Schedule of Accreditation

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Key Forensic Services Ltd

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address University of Warwick Science Park Sir William Lyons Road Coventry West Midlands CV4 7EZ	**Local contact** Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: qms.team@keyforensic.co.uk Website: www.keyforensic.co.uk	Forensic Analysis Quality Management	A
Address 207B and C Cavendish Place Birchwood Park Warrington WA3 6WU	**Local contact** Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: info@keyforensic.co.uk Website: www.keyforensic.co.uk	Forensic Analysis	B
Address 4 Penfold Drive Wymondham Norfolk NR18 OWZ	**Local contact** Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: qms.team@keyforensic.co.uk Website: www.keyforensic.co.uk	Forensic Analysis DNA Profiling	C

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Forensic Testing	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 in relation to the Forensic Activities listed below. In addition, where compliance has been demonstrated for the related FSA specific requirements this is stated below at the relevant schedule entry.	A, B, C
BODY FLUIDS and TISSUES	Forensic Analysis	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Blood - Whole - Stains Semen - Whole - Azoospermic Saliva - Whole - Stains - Swabs (buccal cells) Cellular Material Body Tissue - Hair - Nail - Muscle - Bone - Teeth	Short Tandem Repeat (STR)/Y Chromosome DNA profiling for forensic analysis of: - Elimination Database samples (VED, SED, PED) - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Subject Samples (PACE and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Environmental Monitoring Samples	Documented In-House Methods using manual/automated extraction - Qiagen QIAamp mini kit (KFSP124) - Promega Casework Direct (KFSW311) - Promega DNA IQ with Maxwell RSC48 (automated only) (KFSW312 or KFSW313) - Promega Bone Kit (KFSP346 or KFSW312) Documented In-House Methods (KFSP132 & KFSP187 or KFSW314) using manual/automated quantification - Plexor HY (KFSP187) - PowerQuant (KFSW314 or KFSW315)	C

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd) Blood - Whole - Stains Semen - Whole - Azoospermic Saliva - Whole - Stains - Swabs (buccal cells) Cellular Material Body Tissue - Hair - Nail - Muscle - Bone Teeth	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis Documented In-House Methods (KFSP133, KFSP316, KFSW317 or KFSP319) using manual/automated amplification (PCR) and the following chemistries: - ESI 17 Fast (automated only) - NGM SElect - Y23 - Fusion Documented In-House Methods (KFSP219 or KFSW320) using electrophoresis Applied Biosystems 3500XL Genetic Analyser©	C
	<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 or from other accredited laboratories)	Documented In-House Methods for genetic characterisation using - GMID-X v1.6 (KFSP217, KFSP218 & KFSP268) (C only) - STRMix V2.7 (KFSP268, KFSP271, KFSP272) - Y HRD (KFSP288) (C only)	A, C

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	<u>Relationship Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Saliva - Swabs (buccal cells) - Whole - FTA Cards Blood FTA Cards Semen - Whole - Azospermic Cellular Material - Surrogate reference samples (e.g. toothbrushes and razors) Body Tissue - Hair - Nail - Bone - Teeth - Muscle	Short Tandem Repeat (STR) /Y Chromosome DNA profiling for relationship testing for: - Paternity - Maternity - Sibling - Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild and cousins)	Documented In-House Methods using manual/automated extraction - Qiagen QIAamp mini kit (KFSP124) - Promega Casework Direct (KFSW311) - Promega Bone Kit (KFSP346 or KFSW312) - Promega DNA IQ with Maxwell RSC48 (automated only) (KFSW312 or KFSW313) - Promega SwabSolution (KFSP133 or KFSW318) Documented In-House Methods (KFSP133, KFSW316 or KFSW317) using manual/automated amplification and the following chemistries: - ESI 17 Fast (automated only) - NGM SElect - PowerPlex Y23 - PowerPlex Fusion Documented In-House Methods using manual/automated quantification - Plexor HY (KFSP187) - PowerQuant (KFSW314 or KFSW315) Documented In-House Methods (KFSP219, KFSW319 or KFSW320) using electrophoresis Applied Biosystems 3500xL Genetic Analyser	C C C

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
	Related Opinions and Interpretation Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases	Documented In-House Methods for genetic characterisation using - GMID-X v1.6 (KFSP217, KFSP218 & KFSP268) - GenoProof v3 (KFSP292 & KFSP293) - Y HRD (KFSP228)	A, C
Any material	Searching for - Semen - Saliva - Blood - hairs	Documented in house methods KFSP140, 142 and 145 using - visual examination - low power microscopy - high power microscopy - chemical testing (see below)	A, C
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: - semen - Saliva - Blood - cellular material - hairs	Documented in house methods KFSP 255, 115, 140, 142, 143, 144 and 145, 142 & 359 using - cutting, - swabbing of stains - extraction of stained materials - extraction of swabs,	A, C
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: cellular material	Documented in house methods KFSP 140 & 359 and using swabbing of stains	B
Blood	Presumptive testing for Blood via detection of: - Peroxidase	Documented in house method KFSP 142 using - Visual Examination - LMG (Leucomalachite green) - KM (Kastle Meyer)	A, C

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Bloodstain pattern analysis	
Blood	Related Opinions and Interpretations		
	Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented In-House Method KFSP 142 & 172 using: - visual examination - low power microscopy	A, C
Semen	Presumptive testing for seminal fluid, via detection of: - Acid Phosphatase - Choline - Prostate Specific Antigen (PSA)	Documented In-House Methods KFSP 255 and 144 using: - Visual Examination - Alternative light sources - Acid phosphatase detection (colour reaction) - Choline detection by Florence Iodine test - PSA detection by immunoassay (C only)	A, C
Semen	Confirmatory testing for seminal fluid via identification of: - Spermatozoa	Documented In-House Methods KFSP 255 and 144 using: - High power microscopy - Haematoxylin and Eosin staining - Christmas tree staining	A, C
Saliva	Presumptive testing for saliva via detection of: - Amylase	Documented In-House Method KFSP 143 using: - Visual examination - Phadebas paper - Phadebas tube test	A, C
Urine	Presumptive testing for Urine via detection of: Urea	Documented In-House Methods (KFSP 294) using: - DMAC	A
Faeces	Presumptive testing for Faeces via detection of: Urobilinogen	Documented In-House Methods (KFSP 369) using: - Edelman's test	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DAMAGE Damage (Clothing and Fabric material)	Forensic Analysis Related Opinions and Interpretations 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 KFSP098 using: - visual examination - microscopy	A
TOXICOLOGY BODY FLUIDS Whole Blood (preserved)	Forensic Analysis (cont'd) Detection and quantification of drugs in relation to S5A of the Road Traffic Act 1988 (as amended) and the Drug Driving (Specified Limits) (England and Wales) Regulations 2014: (Limit) and (Calibration Range): Amphetamine (250µg/l) (25-1250 µg/l) Benzoylecgonine (50µg/l) (25-1000 µg/l) Clonazepam (50µg/l) (20-400 µg/l) Cocaine (10µg/l) (5-500 µg/l) Diazepam (550µg/l) (100-2000 µg/l) Flunitrazepam (300µg/l) (100-2000 µg/l) Ketamine (20µg/l) (10-1000 µg/l) Lorazepam (100µg/l) (20-400 µg/l) Lysergic Acid Diethylamide (LSD) (1µg/l) (0.5-10 µg/l) Methadone (500µg/l) (100-2500 µg/l) Methylenedioxymethamphetamine (MDMA) (10µg/l) (5-1000 µg/l) 6-Monoacetylmorphine (5µg/l); (2.5-75 µg/l) Morphine (80µg/l) (25-1000 µg/l) Oxazepam (300µg/l) (100-2000 µg/l) Temazepam (1000µg/l) (100-2000 µg/l)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988 Documented in house method KFSP 238 using: Protein Precipitation and LC-MS-MS	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	Forensic Analysis (cont'd)		
Whole Blood (preserved)	Detection and quantification of drugs in relation to S5A of the Road Traffic Act 1988 (as amended) and the Drug Driving (Specified Limits) (England and Wales) Regulations 2014: (Limit) and (Calibration Range):	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988	B
Whole Blood (preserved)	Delta-9-Tetrahydrocannabinol (THC) (2 µg/l); (0.5-30 µg/l)	Documented in house methods (ref KFSP357) using: - Protein Precipitation - Solid Phase Extraction - Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B
Whole Blood (Preserved/Unpreserved)	Methylamphetamine (10µg/l) (5-1000 µg/l)	Documented in house methods (ref KFSP379) using: - Protein Precipitation - Solid Phase Extraction - Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B
Blood (Preserved/Unpreserved)	Detection and Quantification of the following drugs in non-RTA samples (Cut-Off Limit, Concentration range): **Cannabinoids** Delta-9-tetrahydrocannabinol (THC) (0.2 µg/l, 0.5-30 µg/l) 11-hydroxy-Delta-9-tetrahydrocannabinol (11-OH-THC) (1 µg/l, 1-30 µg/l) 11-nor-Delta-9-tetrahydrocannabinol-9-carboxylic acid (11-COOH-THC) (1.2 µg/l, 5-300 µg/l)	Documented in-house method (KFSP357) using: - Protein Precipitation - Solid Phase Extraction - Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved/Unpreserved)	Quantitative analysis of the following drugs (concentration range):	Documented in house method (ref KFSP238) using protein precipitation and Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	
	Amphetamines Group: Amphetamine (25-1250 µg/l Methylenedioxymethamphetamine (MDMA) (5-1000 µg/l) Methyldioxyamphetamine (MDA) (5-1000 µg/l) Methylenedioxyethylamphetamine (MDEA) (5-1000 µg/l)		B
Blood (Preserved/Unpreserved)	Methylamphetamine (10µg/l) ((5-1000 µg/l)	Documented in house methods (ref KFSP379) using: - Protein Precipitation - Solid Phase Extraction - Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B
	Benzodiazepines Group: Alprazolam (100-2000 µg/l) Clonazepam (20-400 µg/l) Diazepam (100-2000 µg/l) Flunitrazepam (100-2000 µg/l) Lorazepam (20-400 µg/l) Midazolam (100-2000 µg/l) Nitrazepam (100-2000 µg/l) Nordiazepam (100-2000 µg/l) Oxazepam (100-2000 µg/l) Phenazepam (100-2000 µg/l) Temazepam (100-2000 µg/l)		B
	Cocaine group: Cocaine (Preserved only) (5-500 µg/l) Benzoylecgonine (25-1000 µg/l) Cocaethylene (Preserved only) (5-500 µg/L)	Documented in house method (ref KFSP238) using protein precipitation and Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved/Unpreserved)	Quantitative analysis of the following drugs (concentration range):		
	Opioids Group: Codeine (25-1000 µg/l) Dihydrocodeine (25-1000 µg/l) Morphine (25-1000 µg/l) 6-monoacetylmorphine (6-MAM) (2.5-75 µg/l) Methadone (100-2500 µg/l)		B
Blood (Preserved/Unpreserved)	Quantitative analysis of the following drugs (concentration range):	Documented in house method (ref KFSP238) using Protein Precipitation and Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	
	Z Drugs group: Zopiclone (5-500 µg/l) Zaleplon (5-500 µg/l) Zolpidem (5-500 µg/l)		B
	Ketamine (10-1000 µg/l) Norketamine (10-1000 µg/l)		B
	Lysergic Acid Diethylamide (LSD) (0.5-10 µg/l)		B
Blood (Preserved)	Presumptive screening for the presence of the following drug or drug group (cut-off limit) Buprenorphine (1 µg/l)	Documented in house method KFSP232 using: - Enzyme-linked immunosorbent (ELISA)	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved/Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit):		
	Cathinones group: Mephedrone (4-methylmethcathinone) (50 µg/l) 4-MEC (4-methylethcathinone) (50 µg/l) Methylone (50 µg/l) Naphyrone (50 µg/l) Butylone (50 µg/l) MDPV (3,4-methylenedioxypyrovalerone) (50 µg/l) Cathinone (50 µg/l) Methcathinone (50 µg/l) Methedrone (50 µg/l) Pentylone (50 µg/l)	Documented in house method KFSP 239 using: - Protein precipitation and LC-MS-MS	B
	Piperazines group: BZP (1-benzylpiperazine) (50 µg/l) TFMPP (1-[3-Trifluoromethyl)phenyl]piperazine) (50 µg/l) m-CPP (meta-chlorophenylpiperazine) (50 µg/l)		B
Urine (Preserved/ Unpreserved)	Detection and quantitation of fluoride (Cut-off 1% and 1.5%) [Concentration range 0.5 - 2.0%]	Documented in house (KFSP 267) using Ion selective electrode	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	Forensic Analysis (cont'd)		
Urine (Preserved/Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit): **Cathinones:** Mephedrone (4-methylmethcathinone) (100µg/l) 4-MEC (4-methylethcathinone) (100µg/l) Methylone (100µg/l) Naphyrone (100µg/l) Butylone (100µg/l) MDPV (3,4-methylenedioxypyrovalerone) (100µg/l) Cathinone (100µg/l) Methcathinone (100µg/l) Methedrone (100µg/l) Pentylone (100µg/l) **Piperazines:** BZP (1-benzylpiperazine) (100µg/l) TFMPP (1-[3-Trifluoromethyl)phenyl]piperazine) (100µg/l) m-CPP (meta-chlorophenylpiperazine) (100µg/l)	Documented in house method KFSP239 using protein precipitation and LCMSMS identification	B
Urine (Preserved /Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit): 11-nor-Delta-9-tetrahydrocannabinol-9-carboxylic acid (11-COOH-THC) (10µg/l)	Documented in house method KFSP236 using liquid liquid extraction and LCMSMS identification	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	Forensic Analysis (cont'd)		
Urine (Preserved and Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit): **Amphetamines group:** Amphetamine (50µg/l) Methylamphetamine (preserved only) (50µg/l) Methylenedioxymethylamphetamine (MDMA) (50µg/l) Methylenedioxyamphetamine (MDA) (50µg/l) Methylenedioxyethylamphetamine (MDEA) (50µg/l) **Benzodiazepines group:** Alprazolam (50µg/l) Phenazepam (50µg/l) Diazepam (50µg/l) Nordiazepam (50µg/l) Temazepam (preserved only) (50µg/l) Oxazepam (preserved only) (50µg/l) **Cocaine group:** Cocaine (preserved only) (50µg/l) Benzoylecgonine (preserved only) (50µg/l) Cocaethylene (50µg/l) Ketamine (50µg/l) **Opiates/Opioids group:** Methadone (50µg/l) 6-monoacetylmorphine (50µg/l) Morphine (50µg/l) Codeine (50µg/l) Dihydrocodeine (50µg/l)	Documented in house method KFSP237 using protein precipitation and LCMSMS identification	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY BODY FLUIDS (cont'd)	<u>Forensic Analysis</u> (cont'd) <u>Related Opinions and Interpretations</u>		
Alcohol Technical Defence (in relation to RTA and sexual offences) for sample matrix including Blood/urine/breath	Estimation of alcohol consumption and elimination with respect to validity of drinking patterns: 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/ blood/Urine alcohol levels to the time of accident or other incident from 8.3 µg% / 20mg% / 27mg% and above	Documented in house using mathematical calculations	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DRUGS (and materials suspected of containing drugs)	<u>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</u>		
	Identification of cannabis, cannabis resin and cannabis products	Documented in house method KFSP 203 using : - Microscopy - TLC - GC-MS	A
	Identification of cannabis plants	Documented in house method KFSP 203 using - Microscopy	A
	Identification of: - Opiates - Cocaine - Amphetamine - Ecstasy - LSD (GC-MS) - Psilocybin/Psilocin (by TLC only)	Documented in house method KFSP 203 using - spot tests(Marquis Reagent and Cobalt Thiocyanate Reagent) (KFSP194) - microscopy - TLC (KFSP202) - FTIR (KFSP193) - GC-MS (KFSP190)	A
	Identification of : - Mephedrone - Methylethcathinone - TFMPP - Methylamphetamine - Temazepam	Documented In house method KFSP 190 using - GC-MS	A
	Identification of : - Buprenorphine - Ketamine - Tramadol - Zolpidem - Adinazolam, - Eutylone, - Flualprazolam - Flubromazepam, - Furanyl UF-17, - MDMB-4en-PINACA	Documented In house method KFSP 190 using GC-MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DRUGS (and materials suspected of containing drugs) (cont'd)	<u>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</u> (cont'd)		
	The identification of additives and diluents commonly associated with drugs: - Caffeine - Lignocaine - Phenacetin - Levamisole - Benzocaine - Paracetamol	Documented in house method KFSP 190 using - GC-MS	A
	Quantification of : - Amphetamine - Cocaine - Diamorphine - MDMA	Documented in house methods KFSP 204 using - HPLC	A
	Identification of drugs	Flexible scope for the identification of controlled drugs for the purposes of the Misuse of Drugs Act 1971 following the Flexible Scope protocol KFSP388 and KFSWI116 using Documented In-house method KFSP190 & KFSP193 using: - GC-MS - FTIR	A
FIBRES	<u>Forensic Analysis</u>		
	Recovery of fibres for contingency purposes from clothing and objects	Documented in house method KFSP037 using - visual examination - low power microscopy - taping - Mounting	A, B
Natural and man made fibres	Search and recovery of fibres from clothing and objects for analysis	Documented in house method KFSP037 using - Visual Examination - Low power microscopy - taping	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIBRES (cont'd)	Forensic Analysis (cont'd)		
Natural and man-made fibres	Identification of fibre type	Documented in house method KFSP037 using - FTIR - polarised light microscopy	A
Natural and man made fibres	Comparison of fibres	Documented in house method KFSP037 using - comparison microscopy - TLC	A
Natural and man made fibres	Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres	Documented in house method KFSP037 using - microspectrophotometry (visible light) - ultraviolet-visible microspectrophotometry	A
	Opinion and Interpretation 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	Documented in house method	A
FIREARMS	Forensic Analysis		
	Examination of discharged ammunition components to determine the number of guns used.	Documented In house methods KFSP263 using: - comparison microscopy	B
	Examination of cartridges to determine if ammunition has been loaded into a firearm	Documented In house methods KFSP263 using : - Microscopy - comparison microscopy	B
	Comparison of spent ammunition to suspect guns	Documented In house methods KFSP263 using: - comparison microscopy	B
	Opinion and Interpretation The evaluation of features between recovered and reference/control ammunition.	Documented In-House methods using - Personal experience - Reference collections	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIREARMS (cont'd)	Forensic Analysis (cont'd)		
Ammunition	Ammunition and component identification and legal classification	Documented In house method KFSP069 using : - Weighing - length measurement - use of known samples or standard reference data.	B
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968)	Documented in house method KFSP069 using - visual examination - physical properties and features - use of reference sources and publications	B
	Trigger pull measurement	Documented in house method KFSP070 using - weights	B
Firearms	Test Firing to assess the functionality of weapons and/or ammunition.	Documented In house method KFSP068 using suspect or reference guns and ammunition	B
	Range of fire determination	Documented in house method KFSP072 and KFSP087 using - appropriate weapon/ ammunition combination & target material to assess range of fire - Comparison of test patterns to exhibits	B
	Opinion and Interpretation The evaluation of features between recovered and reference/control shot patterns to determine range of fire	Documented In-House methods using - Personal experience - Simulation	B
Firearms	Determination of Kinetic Energy of projectiles	Documented In house method (KFSP073) using SKAN chronograph and balance	B
Firearms	Test Firing to generate test samples of ammunition for comparison to exhibits	Documented In house method KFSP068 using suspect or reference guns and ammunition	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIREARMS (cont'd)	Forensic Analysis (cont'd)		
Firearms	Test Firing to generate test samples of ammunition for inclusion in the NABIS database	Documented In house methods KFSP068 meeting the requirements of NABIS	B
Articles suspected of being damaged by firearms	Presumptive Testing for the presence of Lead	Documented In house method (KFSP291 & KFSW050) using spot tests (Sodium Rhodizonate) for lead	B
Articles suspected of being damaged by firearms	Presumptive Testing for the presence of Copper	Documented In house method (KFSP291 & KFSW050) using spot tests for (DTO) Copper	B
Electrical Shock Devices	Identification, classification and function test	Documented In house method (KFSP303 & KFSP609) using visual examination and function testing	B
Any firearm	Accidental discharge testing	In house method (KFSP070) using impact and drop tests	B
GUN SHOT RESIDUE (GSR / FDR)	Forensic Analysis		
	Recovery of in-organic gun shot residues (primer)	Documented in house method KFSP080 using - carbon coated aluminium stubs	A
Recovered Material	Identification of in-organic gun shot residues (primer)	Documented in house method KFSP034 using - SEM/EDS	A
GLASS	Forensic Analysis		
	Search and Recovery of glass fragments from clothing and objects	Documented in house method KFSP047 using - visual examination microscopy - appropriate recovery: - Shaking - Brushing - Direct removal	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GLASS (cont'd)	<u>Forensic Analysis cont'd</u>		
	Characterisation of glass fragments	Documented in house method KFSP047 & KFSP036 using - refractive index determination by oil immersion (GRIM) - re-annealing by tube furnace - low power microscopy and UV illumination, - elemental analysis by SEM-EDX	A
GLASS	Comparison of recovered glass fragments to control samples recovered from crime scenes	Documented in house method KFSP047 and KFSP036	A
	<u>Opinion and Interpretation</u> The evaluation of the significance of matching and non-matching features between the suspect and reference/control samples	Documented in house method KFSP047	A
LACHRYMATORS	<u>Forensic Analysis</u>		
	Recovery of lachrymators material	Documented in house methods KFSP180 using - Activation - Direct sampling	B
	Identification of - Ortho-chlorobenzalmalonitrile (CS) - Alpha-chloroacetophenone (CN) - Pelargonic acid vanillylamide (PAVA) - Capsaicin (Pepper Spray) - Dihydrocapsaicin (Pepper Spray)	Documented in house method KFSP180 using - GCMS	A
	Legal Classification of devices (Firearms Act 1968)		B
	Analysis to determine the nature of the contents, functionality of device and whether the item fits the description of a Prohibited Weapon		B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS	Forensic Analysis		
Footwear	Coding of Custody prints taken from suspect footwear using gross features	Documented in house method KFSP067	A
Footwear	Enhancement of footwear marks recovered from scenes	Documented in house method KFSP032 & KFSP019 using - lighting techniques - powders - ESLA - gel lifting - gel scanner - digital capture photography	A
	Production of test marks from suspect footwear	Documented in house method KFSP019 using - Dynamic Oil and magna Powder Method - Static Powdering Methods (using Aluminium flake / black granular powder) - 3-D test impressions (using Bio Foam)	A
Footwear mark (physically or image)	Assessment, Comparison and evaluation of footwear with scene marks	Documented In-House methods KFSP019 using visual examination and low power microscopy and dimensional measurements	A
	Opinion and Interpretation The evaluation of the significance of any matching and non-matching features between the footwear scene impression and reference/control footwear marks	Documented In-House methods KFSP019 using - Personal experience - Local test mark reference database	A
Packaging (Plastic bags and clingfilm typically associated with drugs packaging)	Examination to determine the presence of striation marks and manufacturing features	Documented in house method KFSP205 using - dimensional measurement - visual comparison - polarised light - shadowgraph	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS (cont'd)	Opinions and Interpretation The evaluation of the significance of any matching features between the recovered packaging to determine if they are from the same source	Documented In-House method	A
ALCOHOL BEVERAGES	Forensic Analysis		
	Detection and quantitation of alcohol content in submitted beverages	Documented in house (KFSP361) using - HSGC-FID - Autodilutor/Liquid handler	B
BODY FLUIDS and TISSUES	Forensic Analysis		
Blood/Urine/Vitreous Humour (Preserved and unpreserved)	Qualitative and Quantitative analysis of ethanol in non-RTA samples (10 - 500mg/100mL)	Documented in-house method (KFSP361) using: - HSGC-FID - Autodilutor/Liquid handler	B
Blood/Urine (Preserved and unpreserved)	Detection and quantitation of ethanol in relation to the Road Traffic Act 1988 (Range 10 - 500mg/100mL) (Cut-Off Limits): Blood Ethanol (80 mg/100mL) Urine Ethanol (107 mg/100mL)	Documented in-house method (KFSP361) using: - HSGC-FID - Autodilutor/Liquid handler	B
END			