

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>SASA</h3>	
	<p>Issue No: 023 Issue date: 14 March 2011</p>	
	<p>Roddinglaw Road Edinburgh EH12 9FJ</p>	<p>Contact: David Lindsay Tel: +44 (0)131 244 8855 Fax: +44 (0)131 244 8940 E-Mail: David.Lindsay@sasa.gsi.gov.uk Website: www.sasa.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
Wildlife - upper digestive tract content, liver and kidney	<p><u>Chemical Tests</u></p> <p>Identification and Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides:</p> <p>Acetamiprid Aldicarb Aldicarb sulfone ($\geq 1 \text{ mgkg}^{-1}$ in liver) Aldicarb sulfoxide ($\geq 1 \text{ mgkg}^{-1}$ in liver) Aldrin Atrazine Azoxystrobin Bendiocarb Benfuracarb Bitertanol Boscalid Bromoconazole Bupirimate Carbaryl Carbendazim Carbofuran 3-Hydroxy Carbofuran Carbofenothion Carbosulfan ($\geq 1 \text{ mgkg}^{-1}$ in liver) Chlorfenvinphos 1 Chlorfenvinphos 2 Chlorotoluron Chlorpyrifos Clofentizene Clothianadin Cyazofamid Cymoxanil Cyproconazole</p>	<p>Documented In-House Methods</p> <p>CHEM-017 using GC-MS/MS or LC-MS/MS</p>



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Wildlife - upper digestive tract content, liver and kidney (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Identification and Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides: (cont'd)</p> <p>Cyprodinil DDE-PP Demeton-S-methyl ($\geq 1 \text{ mgkg}^{-1}$ in liver) Dementon-S-methyl sulfone Diazinon Dichlorvos Dieldrin Diethofencarb Difenoconazole Diflubenzuron Dimethoate Dimethomorph Dimoxystrobin Disulfoton Disulfoton sulfoxide Diuron Endrin Epoconazole Ethiofencarb Ethiofencarb sulfone Ethiofencarb sulfoxide Famoxadone Famphur Fenamidone Fenamiphos Fenamiphos sulphone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenhexamid Fenitrothion Fenoxycarb Fenpropimorph Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxide Fludioxonil Flufenacet</p>	CHEM-017 using GC-MS/MS or LC-MS/MS (cont'd)



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Wildlife - upper digestive tract content, liver and kidney (cont'd)	<u>Chemical Tests</u> (cont'd) Identification and Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides: (cont'd) Flufenoxuron ($\geq 1 \text{ mgkg}^{-1}$ in liver) Fluopicollide Fluoxastrobin Fluquinconazole Flusilazole Flutriafol Fonophos Furathiocarb Gamma-HCH Hexaconazole Hexythiazox Imazalil Imidacloprid Indoxacarb Iprovalicarb Isofenphos Isoproturon Kresoxim-methyl Linuron Lufenuron Malathion Malaoxon Mepanipyrim Metconazole Methiocarb Methomyl Methoxyfenozide Metolcarb Metrafenone Mevinphos Monocrotophos Myclobutanil Ofurace Omethoate ($\geq 1 \text{ mgkg}^{-1}$ in liver) Oxamyl ($\geq 1 \text{ mgkg}^{-1}$ in liver) Oxydemeton methyl Penconazole Pencycuron Permethrin 1 Permethrin 2 Phorate	CHEM-017 using GC-MS/MS or LC-MS/MS (cont'd)



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Wildlife - upper digestive tract content, liver and kidney (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Identification and Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides: (cont'd)</p> <p>Phorate sulfone Phosmet Picoxystrobin Pirmicarb Pirimiphos-methyl Prochloraz Propetamphos Propiconazole Pymetrozine Pyraclostrobin Pyrethrins Pyridaben ($\geq 1 \text{ mgkg}^{-1}$ in liver) Pyrifenox Pirimethanil Pyriproxyfen Quassia Quinoxifen Rotenone Simazine Spiromesifen Spiroxamine Tebuconazole Tebufenozide Tebufenpyrad Terbufos Terbufos sulfone Terbufos sulfoxide Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Triazamate Triazophos Trichlorfon Trifloxystrobin Triticonazole</p>	CHEM-017 using GC-MS/MS or LC-MS/MS (cont'd)



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<p>Materials used as bait, including but not limited to pure pesticides materials and swabs from articles</p>	<p><u>Chemical Tests</u></p> <p>Identification and Semi-Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides:</p> <ul style="list-style-type: none"> Acephate Acetamiprid Aldicarb Aldicarb sulfone Aldicarb sulfoxide Aldrin Atrazine Azoxystrobin Bendiocarb Benfuracarb Bitertanol Boscalid Bromoconazole Bupirimate Carbaryl Carbendazim Carbofuran Carbofuran (3 hydroxy) Carbophenothion Carbosulfan Chlorfenvinphos 1 Chlorfenvinphos 2 Chlorotoluron Chlorpyrifos Clofentizene Clothianadin Cyazofamid Cymoxanil Cyproconazole Cyprodinil DDE-PP Demeton-S-methyl Dementon-S-methyl sulfone Diazinon Dichlorvos Dieldrin Diethofencarb Difenoconazole Diflubenzuron Dimethoate Dimethomorph Dimoxystrobin 	<p>Documented In-House Methods</p> <p>CHEM-017 using GC-MS/MS or LC-MS/MS</p>



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Materials used as bait, including but not limited to pure pesticides materials and swabs from articles (cont'd)	<p><u>Chemical Tests</u></p> <p>Identification and Semi-Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides: (cont'd)</p> <p>Disulfoton Disulfoton sulfoxide Diuron Endrin Epoxiconazole Ethiofencarb Ethiofencarb sulfone Ethiofencarb sulfoxide Famoxadone Famphur Fenamidone Fenamiphos Fenamiphos sulphone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenhexamid Fenitrothion Fenoxycarb Fenpropimorph Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxide Fludioxonil Flufenacet Flufenoxuron Fluopicollide Fluoxastrobin Fluquinconazole Flusilazole Flutriafol Fonophos Furathiocarb Gamma-HCH Hexaconazole Hexythiazox Imazalil Imidacloprid Indoxacarb</p>	<p>Documented In-House Methods</p> <p>CHEM-017 using GC-MS/MS or LC-MS/MS (cont'd)</p>



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Materials used as bait, including but not limited to pure pesticides materials and swabs from articles (cont'd)	<p><u>Chemical Tests</u></p> <p>Identification and Semi-Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides: (cont'd)</p> <p>Iprovalicarb Isofenphos Isoproturon Kresoxim-methyl Linuron Lufenuron Malathion Malaoxon Mepanipyrim Metconazole Methamidophos Methiocarb Methomyl Methoxyfenozide Metolcarb Metrafenone Mevinphos Monocrotophos Myclobutanil Ofurace Omethoate Oxamyl Oxydemeton methyl Penconazole Pencycuron Permethrin 1 Permethrin 2 Phorate Phorate sulfone Phosmet Picoxystrobin Pirmicarb Pirimiphos-methyl Prochloraz Propamocarb Propetamphos Propiconazole Pymetrozine Pyraclostrobin Pyrethrins Pyridaben</p>	<p>Documented In-House Methods</p> <p>CHEM-017 using GC-MS/MS or LC-MS/MS (cont'd)</p>



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<p>Materials used as bait, including but not limited to pure pesticides materials and swabs from articles (cont'd)</p>	<p><u>Chemical Tests</u></p> <p>Identification and Semi-Quantitative analysis via Multi-Residue Pesticide Analysis Method covering the following pesticides: (cont'd)</p> <p>Pyrifenox Pyrimethanil Pyriproxyfen Quassia Quinoxifen Rotenone Simazine Spinosad Spiromesifen Spiroxamine Tebuconazole Tebufenozide Tebufenpyrad Terbufos Terbufos sulfone Terbufos sulfoxide Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Thiodicarb Triazamate Triazophos Trichlorfon Trifloxystrobin Triticonazole</p>	<p>Documented In-House Methods</p> <p>CHEM-017 using GC-MS/MS or LC-MS/MS (cont'd)</p>
<p>Animal tissue and pesticide formulations</p>	<p>Identification and Quantitative analysis</p> <p>Chloralose</p>	<p>Documented In-House Methods</p> <p>CHEM-055 by Liquid Chromatography- Mass Spectrometry (LC-MS/MS)</p>



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Ex vertebrate Liver tissue	<u>Chemical Tests</u> Identification and Quantitative analysis for the following anticoagulant rodenticides: Brodifacoum Bromodiolone Coumatetrayl Difenacocum Flocoumafen Warfarin	CHEM-064 using LC-MS/MS
FOODS	<u>Chemical Tests</u>	Documented In-House Methods
Fruit and Vegetables	Pesticide residues - detection, quantification and confirmation, by appropriately validated methods, following flexible scope method CHEM-075, using GC-MS/MS and LC-MS/MS, for analytes not covered by the specific methodology given in the scope of accreditation below Dithiocarbamate Pesticides as CS ₂	CHEM-054 & CHEM-014 Flexible scope procedures using GC-MS/MS and LC-MS/MS CHEM-011 by digestion and GCMS
	Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides: Acrinathrin Aldrin Azinphos-methyl Bifenthrin Biphenyl Bromopropylate Buprofezin Cadusafos Captan Chlorfenvinphos Chlorobenzilate Chlorothalonil Chlorpyrifos Chlorpyrifos-methyl Chlorthal-dimethyl Chlozolate	CHEM-014 using -ve ion CI GC-MS and GC-MS/MS



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FOODS (cont'd) Fruit and Vegetables (cont'd)	<u>Chemical Tests</u> (cont'd) Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides: (cont'd) Cyfluthrin Cypermethrin DDD-p,p DDE-p,p DDT-o,p DDT-p,p Deltamethrin Diazinon Dichlofluanid Dichlorvos Dicloran Dicofol Dicrotophos Dieldrin Diphenylamine Endosulphan-alpha Endosulphan-beta Endosulphan sulfate EPN Ethion Ethofumesate Ethoprophos Etrimfos Fenitrothion Fenpropathrin Fenvalerate Fluvalinate (tau) Folpet Fonophos Formothion Fosthiazate Furalaxyl HCH-gamma Heptenophos Hexachlorobenzene Iprodione Isazophos Isocarbofos Isofenphos Isofenphos-methyl Lambda-cyhalothrin	CHEM-014 using -ve ion CI GC-MS and GC-MS/MS (cont'd)



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FOODS (cont'd) Fruit and Vegetables (cont'd)	<u>Chemical Tests</u> (cont'd) Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides: (cont'd) Mecarbam Metalaxyl Methacrifos Methidathion Mevinphos Oxadixyl Paclobutrazol Parathion Parathion-methyl Permethrin Phenthoate Phorate Phosalone Phosmet Phosphamidon Pirimiphos-ethyl Pirimiphos-methyl Procymidone Profenophos Propargite Propham Propoxur Propyzamide Prothiofos Pyrazophos Pyridaphenthion Quinalphos Quintozene Tecnazene Tefluthrin Tetrachlorfenvinphos Tetramethrin Tetradifon Tolclofos methyl Tolyfluanid Triadimefon Triadimenol Triazophos Trifluralin Vinclozolin	CHEM-014 using -ve ion CI GC-MS and GC-MS/MS (cont'd)



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FOODS (cont'd) Fruit and Vegetables (cont'd)	<u>Chemical Tests</u> (cont'd) Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides (cont'd) Famoxadone Fenamidone Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenhexamid Fenoxycarb Fenpropimorph Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxide Fipronil Fipronil sulfone Fluazinam Fludioxinil Flufenacet Flufenoxuron Fluopicolide Fluoxastrobin Fluquinconazole Flusilazole Flutriafol Furathiocarb Hexaconazole Hexythiazox Imazalil Imidacloprid Indoxacarb Iprovalicarb Isoproturon Kresoxim-methyl Linuron Lufenuron Malaoxon Malathion Mepanipyrim Metconazole	CHEM-054 using LC-MS/MS (cont'd)



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FOODS (cont'd) Fruit and Vegetables (cont'd)	<u>Chemical Tests</u> (cont'd) Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides (cont'd) Methamidophos Methiocarb Methomyl Methoxychlor Methoxyfenozide Metolcarb Metrafenone Monocrotophos Myclobutanil Nitenpyram Nitrothal-isopropyl Ofurace Omethoate Oxamyl Oxydemeton methyl Penconazole Pencycuron Pendimethalin Phorate Phorate Sulfoxide Phorate sulfone Picoxystrobin Pirimicarb Prochloraz Propiconazole Prothioconazole-desthio Pymetrozine Pyraclostrobin Pyridaben Pyrethrins Pyrifenox Pyrimethanil Pyriproxyfen Quassia Quinoxifen Rotenone Simazine Spinosad Spiromesifan Spiroxamine Tebuconazole	CHEM-054 using LC-MS/MS (cont'd)



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FOODS (cont'd) Fruit and Vegetables (cont'd)	<u>Chemical Tests</u> (cont'd) Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides (cont'd) Tebufenoside Tebufenpyrad Teflubenzuron Terbufos Terbufos sulfone Terbufos sulfoxide Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Thiodicarb Trichlorfon Trifloxystrobin Triticonazole Zoxamide	CHEM-054 using LC-MS/MS (cont'd)
Fruit and Vegetables	Identification and Quantitative analysis using Multi-Residue Pesticide Analysis method covering the following pesticides Carbendazim Carbosulfan Etofenprox Fenamidone (MRM only) Phoxim Propamocarb Teflubenzuron Thiophanate methyl (MRM only) Triazamate ester Triflumuron	CHEM-070 using LC-MS/MS and LC-TOF following acetonitrile extraction
SOLVENT EXTRACTS POTENTIALLY CONTAINING PESTICIDE RESIDUES	Confirmation of pesticide identity and concentration	Standard Operating Procedure CHEM-010 using GC-MS, GC-MS/MS and LC-MS techniques

