

Laboratory All India Network Project on Pesticide Residues, College of Agriculture, Vellayani P.O., Thiruvananthapuram, Kerala

Accreditation Standard ISO/IEC 17025: 2005

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Validity 03.02.2018 to 02.02.2020 Last Amended on 20.02.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	RESIDUES IN WATER		
1.	Surface Water and Ground Water	Pesticide residue analysis: Organochlorine pesticides	AINPPRKAU/MOA-01 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 991.07 and 990.06)
		α-HCH	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		beta – HCH	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		γ-HCH/ Lindane	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		δ-HCH	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Endosulfan-I	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Endosulfan-II	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		p,p'-DDE	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		p,p'-DDD	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Organophosphorous Pesticides	
		Phorate	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Chlorpyrifos	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Malathion	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Parathion methyl	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Quinalphos	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Profenophos	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Ethion	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Synthetic Pyrethroids	
		Fenvalerate	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		λ-Cyhalothrin	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Alpha Cypermethrin	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		β-Cyfluthrin	0.1 µgL ⁻¹ to 100 µgL ⁻¹
		Fenpropathrin	0.1 µgL ⁻¹ to 100 µgL ⁻¹

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II. RESIDUES IN FOOD PRODUCTS				
1.	Fruits (High moisture i.e., >70%, low fat i.e., <2%)	Pesticide residue analysis:	AINPPRKAU/MOA-02 Issue No:3, date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	
		<u>Organochlorine pesticides</u>		
		α-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		β-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		γ-HCH/ Lindane		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		δ-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Endosulfan-I		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Endosulfan-II		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		p,p'-DDE		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		p,p'-DDD		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		<u>Organophosphorous pesticides</u>		
		Phorate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Dimethoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Methyl Parathion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malathion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Quinalphos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Profenophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Ethion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Triazophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
	Phosalone	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		
	<u>Synthetic Pyrethroids and Herbicides</u>			
	Bifenthrin	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		
	Fenpropathrin	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		
	Lambda Cyhalothrin	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		
	Cyfluthrin-1	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		
	Cyfluthrin-2	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		
	Alpha Cypermethrin	0.05 mgkg ⁻¹ to 100 mgkg ⁻¹		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fenvalerate-1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-2		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pendimethalin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluchloralin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		<u>Carbamates and new molecules</u>		
		Methomyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tricyclazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbendazim		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbaryl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acetamiprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Bendiocarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran,3-hydroxy		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Clothianidine		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiacloprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Imidacloprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Metalaxyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiamethoxam		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tridemorph		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Buprofezin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenazaquin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebuconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Hexaconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluzilazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Iprovalicarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pyriproxyfen		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebufenpyrad		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiodicarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spirotetramat		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbosulfan		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Etofenprox		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Azoxystrobin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Difenoconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Trifloxystrobin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Benfuracarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpyroximate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chloranthraniliprole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Flufenoxuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lufenuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Indoxacarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn A		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn D		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1b1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1a1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acephate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Monocrotophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenthion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosphamidon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Diazinon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malaoxon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phenthoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyriphos methyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Edifenphos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
2.	Vegetables (High moisture i.e., >70%, low fat i.e., <2%)	Organochlorine pesticides	AINPPRKAU/MOA-02 Issue No:3, date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method	
		α-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		β-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		γ-HCH/ Lindane		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		δ-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Endosulfan-I		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Endosulfan-II		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		p,p'-DDE		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		p,p'-DDD		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹

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		<u>Organophosphorous pesticides</u>		
		Phorate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Dimethoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Methyl Parathion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malathion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Quinalphos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Profenophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Ethion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Triazophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosalone		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acephate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Monocrotophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenthion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosphamidon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Diazinon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malaaxon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phenthoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos methyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Edifenphos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluchloralin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u>		
		Bifenthrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpropathrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lambda Cyhalothrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Cyfluthrin-1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Cyfluthrin-2		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Alpha Cypermethrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-2		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pendimethalin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹

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		<u>Carbamates and new molecules</u>		
		Methomyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tricyclazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbendazim		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbaryl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acetamiprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Bendiocarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran,3-hdroxy		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Clothianidine		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiacloprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Imidacloprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Metalaxyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiamethoxam		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tridemorph		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Buprofezin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenazaquin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebuconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Hexaconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluzilazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Iprovalicarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pyriproxyfen		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebufenpyrad		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiodicarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spirotetramat		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbosulfan		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Etofenprox		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Ethiprole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Azoxystrobin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Difenoconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Trifloxystrobin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Benfuracarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpyroximate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Chloranthraniliprole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Flufenoxuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lufenuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Indoxacarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn A		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn D		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1b1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1a1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
3.	Cereals and Pulses (Fat <2%)	Pesticide residue analysis:	AINPPR /MOA-03 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	
		Organochlorine Group		
		α-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		β-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		γ-HCH/ Lindane		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		δ-HCH		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Endosulfan-I		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Endosulfan-II		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		p,p'-DDE		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		p,p'-DDD		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Organophosphorous pesticides		
		Phorate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Dimethoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Methyl Parathion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malathion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Quinalphos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Profenophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Ethion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Triazophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosalone		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acephate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Omethoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Monocrotophos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Thiameton		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenetrothion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenthion		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosphamidon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Diazinon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malaoxon		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phenthoate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyriphos methyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Edifenphos		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Synthetic Pyrethroids and Herbicides		
		Bifenthrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpropathrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lambda Cyhalothrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Cyfluthrin-1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Cyfluthrin-2		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Alpha cypermethrin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-2		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluchloralin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pendimethalin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbamates and new molecules		
		Tricyclazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbendazim		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbaryl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acetamiprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Bendiocarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carboxine		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran,3-hydroxy		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Clothianidine		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiacloprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Imidacloprid		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Metalaxyl		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiamectoxam		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tridemorph		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Buprofezin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenazaquin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebuconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Hexaconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluzilazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Iprovalicarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pyriproxyfen		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebufenpyrad		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spirotetramat		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Difenthiuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Etofenprox		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Azoxystrobin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Difenoconazole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Trifloxystrobin		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpyroximate		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fipronil		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chloranthraniliprole		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Flufenoxuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lufenuron		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Indoxacarb		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Flubendiamide		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn A		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn D		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1b1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1a1		0.05 mgkg ⁻¹ to 100 mgkg ⁻¹
4.	Leafy spices (curry leaf)	Pesticide Residue Analysis:	AINPPRKAU/MOA-09 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	
		Alpha HCH		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Beta HCH		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lindane		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Delta HCH		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Alpha Endosulfan		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		pp DDE		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Beta Endosulfan		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		pp DDD		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Organophosphorous pesticides		
		Phorate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Dimethoate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Methyl Parathion		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malathion		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Quinalphos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Profenophos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Ethion		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Triazophos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosalone		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acephate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Omethoate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Monocrotophos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenthion		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phosphamidon		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Diazinon		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malaoxon		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Phenthoate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos methyl		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Edifenphos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Synthetic Pyrethroids and herbicides		
		Bifenthrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpropathrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lambda Cyhalothrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Cyfluthrin-1		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Cyfluthrin-2		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹

Ruchi Guntuku
Convenor

N. Venkateswaran
Program Director

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		Alpha cypermethrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-1		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenvalerate-2		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluchloralin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pendimethalin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbamates and new molecules		
		Tricyclazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbendazim		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbaryl		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acetamiprid		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Bendiocarb		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carboxine		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran,3-hdroxy		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Clothianidine		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiacloprid		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Imidacloprid		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Metalaxyl		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Imazethapyr		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiamethoxam		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tridemorph		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Buprofezin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenazaquin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebuconazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Hexaconazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluzilazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Iprovalicarb		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pyriproxyfen		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebufenpyrad		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiodicarb		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spirotetramat		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbosulfan		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Etofenprox		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Ethiprole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Azoxystrobin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Difenoconazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Trifloxystrobin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Benfuracarb		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpyroximate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fipronil		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chloranthraniliprole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Flufenoxuron		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Lufenuron		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Indoxacarb		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn A		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Spinosyn D		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1b1		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin B1a1		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
5.	Milk	Pesticide residue analysis:	AINPPRKAU/MOA-05 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	
		Organochlorine pesticides		
		α-HCH		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-HCH		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		γ-HCH/ Lindane		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		δ-HCH		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-I		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-II		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDE		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDD		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		Organophosphorous pesticides		
		Phorate		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Dimethoate		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Chlorpyrifos		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Malathion		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Parathion -methyl		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹

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		Quinalphos		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Profenophos		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Ethion		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Synthetic Pyrethroids and Herbicides		
		Fenvalerate		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		λ-Cyhalothrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-Cyfluthrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fenpropathrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Bifenthrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Pendimethalin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fluchloralin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
6.	Fish/Meat	Pesticide residue analysis:	AINPPRKAU/MOA-6 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	
		Organochlorine pesticides		
		α-HCH		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-HCH		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		γ-HCH/ Lindane		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		δ-HCH		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-I		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-II		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDE		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDD		0.025 mgkg ⁻¹ to 50 mgkg ⁻¹
		Organophosphorous pesticides		
		Phorate		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Dimethoate		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Chlorpyrifos		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Malathion		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Parathion -methyl		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Quinalphos		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Profenophos		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Ethion		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹

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		Synthetic Pyrethroids and Herbicides		
		Fenvalerate		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		λ-Cyhalothrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Alpha Cypermethrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-Cyfluthrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fenpropathrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Bifenthrin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Pendimethalin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fluchloralin		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
7.	Black Pepper	Pesticide residue analysis:	AINPPRKAU/MOA-7 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS)	
		Organochlorine pesticides		
		α-HCH		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-HCH		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-I		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-II		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDE		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDD		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Organophosphorous pesticides		
		Phorate		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Dimethoate		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Chlorpyrifos		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Malathion		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Parathion -methyl		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Quinalphos		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Profenophos		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Ethion		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Synthetic Pyrethroids and Herbicides		
		Fenvalerate		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		λ-Cyhalothrin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹

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		Alpha Cypermethrin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-Cyfluthrin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fenpropathrin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Bifenthrin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Pendimethalin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fluchloralin		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		<u>Carbamates and new molecules</u>		
		Spirotetramat		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Chlorantraniliprole		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Emamectin Benzoate		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fipronil		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Fenpyroximate		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Indoxacarb		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Carbaryl		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Carbofuran		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Carbofuran-3-hydroxy		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Methomyl		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Carbendazim		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
		Carbosulfan		0.1 mgkg ⁻¹ to 50 mgkg ⁻¹
8.	Cardamom	Pesticide residue analysis: <u>Organochlorine Pesticides</u>	AINPPRKAU/MOA-07 Issue No:3,date:11/09/2017 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS)	
		α-HCH		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		β-HCH		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		γ-HCH/ Lindane		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		δ-HCH		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-I		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		Endosulfan-II		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDE		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹
		p,p'-DDD		0.05 mgkg ⁻¹ to 50 mgkg ⁻¹

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		<u>Organophosphorous Pesticides</u>		
		Phorate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Dimethoate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorpyrifos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Malathion		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Parathion -methyl		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Quinalphos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Profenophos		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Ethion		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u>		
		Fenvalerate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		λ-Cyhalothrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Alpha Cypermethrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		β-Cyfluthrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpropathrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Bifenthrin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Pendimethalin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluchloralin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		<u>Carbamates and new molecules</u>		
		Spirotetramat		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Chlorantraniliprole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Emamectin Benzoate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fipronil		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fenpyroximate		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Indoxacarb		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Imidacloprid		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiamethoxam		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbaryl		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbofuran-3-hydroxy		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Thiacloprid		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹

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		Methomyl		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Acetamiprid		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Trifloxystrobin		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebuconazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Flubendiamide		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Hexaconazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Fluzilazole		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Tebufenpyrad		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹
		Carbosulfan		0.1 mgkg ⁻¹ to 100 mgkg ⁻¹