

Table S1 Validation results of six spiked samples at three concentration levels and corresponding screening limit (SDL) and limit of identification (LOI).

Compound	Spiked Levels ($\mu\text{g kg}^{-1}$)			Detected (n=6)			Identified (n=6)			Blank	SDL $\mu\text{g kg}^{-1}$	LOI $\mu\text{g kg}^{-1}$
	Low	Middle	High	Low	Middle	High	Low	Middle	High			
1,3-Diphenyl urea	4.40	44.0	220	6/6	6/6	6/6	6/6	6/6	6/6	-	4.40	4.40
1-naphthyl acetamide	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
3,4,5-Trimethacarb	1.00	10.0	50.0	0/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Acetamiprid	1.00	10.0	50.0	5/5	5/5	5/5	0/5	5/5	5/5	1	1.00	10.0
Acetochlor	1.00	10.0	50.0	0/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Aldicarb	4.00	40.0	200	2/6	6/6	6/6	0/6	0/6	0/6	-	40.0	-
Ametryn	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Ancymidol	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Anilofos	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Aspon	2.00	20.0	100	3/6	6/6	6/6	0/6	6/6	6/6	-	20.0	20.0
Atraton	4.00	40.0	200	6/6	6/6	6/6	6/6	6/6	6/6	-	4.00	4.00
Atrazine	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Atrazine-Desethyl	4.00	40.0	200	6/6	6/6	6/6	3/6	6/6	6/6	-	4.00	40.0
Azamethiphos	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Azinphos-ethyl	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Azinphos-methyl	6.70	67.0	335	6/6	6/6	6/6	0/6	0/6	0/6	-	6.70	-
Azoxystrobin	1.00	10.0	50.0	5/5	5/5	5/5	5/5	5/5	5/5	1	1.00	1.00
Benalaxyl	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Bendiocarb	2.00	20.0	100	1/6	6/6	6/6	0/6	3/6	6/6	-	20.0	100
Benodanil	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Benoxacor	10.00	100	500	6/6	6/6	6/6	0/6	6/6	6/6	-	10.0	100
Bensulide	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Benzoximate	1.00	10.0	50.0	2/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Benzoylprop-ethyl	1.00	10.0	50.0	0/6	0/6	0/6	0/6	0/6	0/6	-	-	-
Bioallethrin	8.00	80.0	400	0/6	4/6	6/6	0/6	0/6	0/6	-	400	-
Bitertanol	1.00	10.0	50.0	2/6	3/6	6/6	0/6	0/6	6/6	-	50.0	50.0
Bromacil	4.90	49.0	245	6/6	6/6	6/6	3/6	6/6	6/6	-	4.90	49.0
Bromfeninfos	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Brompyrazon	2.00	20.0	100	6/6	6/6	6/6	3/6	6/6	6/6	-	2.00	20.0
Bromuconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Bupirimate	2.00	20.0	100	6/6	6/6	6/6	6/6	6/6	6/6	-	2.00	2.00
Buprofezin	1.00	10.0	50.0	5/5	5/5	5/5	5/5	5/5	5/5	1	1.00	1.00
Butachlor	4.60	46.0	230	0/6	6/6	6/6	0/6	6/6	6/6	-	46.0	46.0
Butafenacil	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Butamifos	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Butralin	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Cadusafos	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Cafenstrole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Carbaryl	2.70	27.0	135	5/6	6/6	6/6	0/6	6/6	6/6	-	27.0	27.0
Carbendazim	1.00	10.0	50.0	4/4	4/4	4/4	4/4	4/4	4/4	2	1.00	1.00

Compound	Spiked Levels ($\mu\text{g kg}^{-1}$)			Detected (n=6)			Identified (n=6)			Blank	SDL $\mu\text{g kg}^{-1}$	LOI $\mu\text{g kg}^{-1}$
	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Carbetamide	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Carbofuran	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Carbofuran-3-hydroxy	1.40	14.0	70.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.40	14.0
Carbophenothion	2.00	20.0	100	0/6	0/6	3/6	0/6	0/6	0/6	-	-	-
Carboxin	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Carfentrazone-ethyl	4.00	40.0	200	6/6	6/6	6/6	0/6	6/6	6/6	-	4.00	40.0
Carpropamid	1.00	10.0	50.0	3/6	6/6	6/6	0/6	3/6	6/6	-	10.0	50.0
Chlorfenvinphos	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Chloridazon	1.00	10.0	50.0	6/6	6/6	6/6	1/6	6/6	6/6	-	1.00	10.0
Chlorotoluron	2.00	20.0	100	6/6	6/6	6/6	3/6	6/6	6/6	-	2.00	20.0
Chloroxuron	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Chlorpyrifos-ethyl	2.00	20.0	100	6/6	6/6	6/6	3/6	6/6	6/6	-	2.00	20.0
Chlorthiophos	6.00	60.0	300	3/6	6/6	6/6	0/6	0/6	6/6	-	60.0	300
Chromafenozide	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Cinmethylin	1.00	10.0	50.0	1/6	6/6	6/6	0/6	3/6	6/6	-	10.0	50.0
Clomazone	1.00	10.0	50.0	5/6	6/6	6/6	3/6	6/6	6/6	-	10.0	10.0
Cloquintocet-mexyl	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Clothianidin	1.00	10.0	50.0	6/6	6/6	6/6	1/6	6/6	6/6	-	1.00	10.0
Crufomate	2.00	20.0	100	1/6	6/6	6/6	0/6	0/6	0/6	-	20.0	-
Cyanazine	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Cycloate	4.00	40.0	200	3/6	6/6	6/6	0/6	6/6	6/6	-	40.0	40.0
Cycluron	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Cyflufenamid	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Cyprazine	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Cyproconazole	3.00	30.0	150	0/6	6/6	6/6	0/6	6/6	6/6	-	30.0	30.0
Cyprodinil	3.70	37.0	185	0/6	6/6	6/6	0/6	6/6	6/6	-	37.0	37.0
Demeton-S	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Demeton-S sulfoxide	4.70	47.0	235	6/6	6/6	6/6	6/6	6/6	6/6	-	4.70	4.70
Demeton-S-methyl	8.00	80.0	400	0/6	6/6	6/6	0/6	0/6	0/6	-	80.0	-
Demeton-S-methyl sulfone	1.00	10.0	50.0	1/6	6/6	6/6	0/6	4/6	6/6	-	10.0	50.0
Desethyl-sebuthylazine	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Desmedipham	1.00	10.0	50.0	0/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Desmethyl-pirimicarb	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Diallate	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Diazinon	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Dichlofenthion	6.00	60.0	300	2/6	6/6	6/6	0/6	0/6	0/6	-	60.0	-
Diclobutrazole	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Dicrotophos	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Diethatyl-ethyl	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Diethofencarb	1.00	10.0	50.0	3/6	3/6	6/6	0/6	0/6	6/6	-	50.0	50.0
Diethyltoluamide	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Difenoconazole	1.00	10.0	50.0	4/4	4/4	4/4	0/4	4/4	4/4	2	1.00	10.0
Difenoaxuron	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00

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	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Dimefuron	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Dimepiperate	1.00	10.0	50.0	0/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Dimethachlor	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Dimethametryn	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Dimethenamid	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Dimethirimol	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Dimethoate	2.00	20.0	100	6/6	6/6	6/6	3/6	6/6	6/6	-	2.00	20.0
Dimethomorph	1.00	10.0	50.0	2/4	4/4	4/4	0/4	4/4	4/4	2	10.0	10.0
Diniconazole	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Diphenamid	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Dipropetryn	6.20	62.0	310	6/6	6/6	6/6	6/6	6/6	6/6	-	6.20	6.20
Disulfoton sulfone	1.00	10.0	50.0	6/6	6/6	6/6	0/6	3/6	6/6	-	1.00	50.0
Disulfoton sulfoxide	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Dithiopyr	7.50	75.0	375	5/6	6/6	6/6	0/6	6/6	6/6	-	75.0	75.0
Diuron	4.00	40.0	200	6/6	6/6	6/6	2/6	6/6	6/6	-	4.00	40.0
Dodemorph	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Edifenphos	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Emamectin-benzoate	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Epoxiconazole	1.00	10.0	50.0	6/6	6/6	6/6	4/6	6/6	6/6	-	1.00	10.0
Esprocarb	4.00	40.0	200	5/6	6/6	6/6	0/6	6/6	6/6	-	40.0	40.0
Etaconazole	5.20	52.0	260	0/6	5/6	6/6	0/6	0/6	6/6	-	260	260
Ethidimuron	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Ethiofencarb sulfone	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Ethion	1.00	10.0	50.0	3/6	6/6	6/6	0/6	0/6	6/6	-	10.0	50.0
Ethiprole	2.00	20.0	100	6/6	6/6	6/6	0/6	3/6	3/6	-	2.00	-
Ethirimol	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Ethoprophos	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Etobenzanid	4.00	40.0	200	6/6	6/6	6/6	0/6	6/6	6/6	-	4.00	40.0
Etrimfos	10.00	100	500	3/6	6/6	6/6	0/6	0/6	0/6	-	100	-
Famphur	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Fenamidone	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fenamiphos	1.00	10.0	50.0	1/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Fenamiphos sulfone	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fenamiphos sulfoxide	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fenarimol	8.40	84.0	420	6/6	6/6	6/6	3/6	6/6	6/6	-	8.40	84.0
Fenazaquin	2.00	20.0	100	5/6	6/6	6/6	0/6	0/6	3/6	-	20.0	-
Fenbuconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fenfuram	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Fenobucarb	2.00	20.0	100	6/6	6/6	6/6	6/6	6/6	6/6	-	2.00	2.00
Fenothiocarb	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fenoxanil	2.00	20.0	100	5/6	6/6	6/6	0/6	6/6	6/6	-	20.0	20.0
Fenpropidin	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Fenpyroximate	1.00	10.0	50.0	5/6	6/6	6/6	0/6	3/6	6/6	-	10.0	50.0

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	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Fensulfothion	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fenthion sulfoxide	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Fenuron	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Flamprop	2.00	20.0	100	6/6	6/6	6/6	0/6	0/6	4/6	-	2.00	-
Flamprop-methyl	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Fluazifop-butyl	5.30	53.0	265	6/6	6/6	6/6	6/6	6/6	6/6	-	5.30	5.30
Flucycloxuron	1.00	10.0	50.0	4/6	6/6	6/6	0/6	1/6	6/6	-	10.0	50.0
Flufenacet	1.00	10.0	50.0	6/6	6/6	6/6	2/6	6/6	6/6	-	1.00	10.0
Flufenoxuron	1.00	10.0	50.0	4/6	6/6	6/6	0/6	3/6	6/6	-	10.0	50.0
Flumiclorac-pentyl	1.00	10.0	50.0	3/6	6/6	6/6	0/6	0/6	0/6	-	10.0	-
Fluometuron	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Fluquinconazole	5.00	50.0	250	5/6	6/6	6/6	0/6	6/6	6/6	-	50.0	50.0
Fluridone	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Flurtamone	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Flusilazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Flutolanil	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Flutriafol	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Fonofos	4.00	40.0	200	4/6	6/6	6/6	0/6	6/6	6/6	-	40.0	40.0
Forchlorfenuron	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Fosthiazate	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Furalaxyl	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Furathiocarb	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Furmecyclox	1.00	10.0	50.0	2/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Haloxyfop-ehoxyethyl	1.00	10.0	50.0	3/6	6/6	6/6	0/6	3/6	6/6	-	10.0	50.0
Haloxyfop-methyl	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Heptenophos	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Hexaconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	0/6	6/6	-	1.00	50.0
Hexazinone	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Hexythiazox	2.00	20.0	100	3/6	6/6	6/6	0/6	0/6	0/6	-	20.0	-
Imazalil	1.00	10.0	50.0	3/3	3/3	3/3	1/3	3/3	3/3	3	?	?
Imazapic	1.00	10.0	50.0	6/6	6/6	6/6	3/6	4/6	6/6	-	1.00	50.0
Imazethapyr	1.00	10.0	50.0	3/6	6/6	6/6	0/6	2/6	6/6	-	10.0	50.0
Imidacloprid	3.40	34.0	170	3/6	6/6	6/6	0/6	6/6	6/6	-	34.0	34.0
Indoxacarb	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Iprobenfos	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Iprovalicarb	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Isazofos	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Isocarbamid	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Isufenphos oxon	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Isomethiozin	1.80	18.0	90.0	0/6	6/6	6/6	0/6	0/6	0/6	-	18.0	-
Isoprocab	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Isopropalin	1.00	10.0	50.0	0/6	6/6	6/6	0/6	0/6	1/6	-	10.0	-
Isoprothiolane	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00

Compound	Spiked Levels ($\mu\text{g kg}^{-1}$)			Detected (n=6)			Identified (n=6)			Blank	SDL $\mu\text{g kg}^{-1}$	LOI $\mu\text{g kg}^{-1}$
	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Isoproturon	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Isouron	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Isoxaben	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Isoxadifen-ethyl	4.00	40.0	200	3/6	6/6	6/6	0/6	0/6	0/6	-	40.0	-
Isoxathion	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Kadethrin	1.00	10.0	50.0	3/6	6/6	6/6	0/6	2/6	3/6	-	10.0	-
Karbutilate	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Kresoxim-methyl	2.00	20.0	100	4/6	6/6	6/6	0/6	6/6	6/6	-	20.0	20.0
Lactofen	6.00	60.0	300	3/6	6/6	6/6	0/6	0/6	0/6	-	60.0	-
Linuron	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Malaoxon	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Malathion	1.00	10.0	50.0	6/6	6/6	6/6	0/6	0/6	0/6	-	1.00	-
Mecarbam	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Mefenacet	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Mepanipyrim	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Mephosfolan	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Mepiquat chloride	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Mepronil	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Mesosulfuron-methyl	1.00	10.0	50.0	0/6	2/6	6/6	0/6	0/6	0/6	-	50.0	-
Metalaxyl	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Metamitron	1.00	10.0	50.0	6/6	6/6	6/6	0/6	0/6	3/6	-	1.00	-
Metazachlor	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Metconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Methabenzthiazuron	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Methamidophos	2.00	20.0	100	3/6	6/6	6/6	0/6	3/6	6/6	-	20.0	100
Methiocarb	2.00	20.0	100	3/6	3/6	6/6	0/6	0/6	6/6	-	100	100
Methiocarb sulfoxide	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Methomyl	1.00	10.0	50.0	3/6	6/6	6/6	0/6	4/6	6/6	-	10.0	50.0
Methoprotryne	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Metobromuron	1.00	10.0	50.0	6/6	6/6	6/6	0/6	3/6	6/6	-	1.00	50.0
Metolachlor	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Metoxuron	1.00	10.0	50.0	0/6	0/6	0/6	0/6	0/6	0/6	-	-	-
Metribuzin	7.80	78.0	390	0/6	0/6	6/6	0/6	0/6	6/6	-	390	390
Mexacarbate	1.00	10.0	50.0	0/6	0/6	3/6	0/6	0/6	6/6	-	-	50.0
Monocrotophos	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Monuron	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Myclobutanil	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Napropamide	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Neburon	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Norflurazon	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Nuarimol	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Octhilinone	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Ofurace	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0

Compound	Spiked Levels ($\mu\text{g kg}^{-1}$)			Detected (n=6)			Identified (n=6)			Blank	SDL $\mu\text{g kg}^{-1}$	LOI $\mu\text{g kg}^{-1}$
	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Omethoate	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Orbencarb	2.00	20.0	100	6/6	6/6	6/6	4/6	6/6	6/6	-	2.00	20.0
Oxadixyl	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Oxycarboxin	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Paclobutrazol	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Paraoxon-ethyl	1.00	10.0	50.0	5/6	6/6	6/6	0/6	0/6	3/6	-	10.0	-
Pebulate	15.00	150	750	1/6	6/6	6/6	0/6	6/6	6/6	-	150	150
Penconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Pencycuron	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Pentachlor	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Phenmedipham	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Phenthoate	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Phorate sulfone	1.00	10.0	50.0	6/6	6/6	6/6	0/6	0/6	6/6	-	1.00	50.0
Phorate sulfoxide	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Phosalone	3.00	30.0	150	3/6	6/6	6/6	0/6	0/6	0/6	-	30.0	-
Phosphamidon	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Phoxim	4.00	40.0	200	2/6	6/6	6/6	0/6	0/6	0/6	-	40.0	-
Picolinafen	1.00	10.0	50.0	3/6	6/6	6/6	0/6	0/6	0/6	-	10.0	-
Picoxystrobin	1.00	10.0	50.0	5/6	6/6	6/6	0/6	0/6	6/6	-	10.0	50.0
Piperonyl-butoxide	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Piperophos	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pirimicarb-desmethyl-formamido	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Pirimiphos-ethyl	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pirimiphos-methyl	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Pretilachlor	1.00	10.0	50.0	1/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Prochloraz	1.00	10.0	50.0	2/2	2/2	2/2	2/2	2/2	2/2	4	?	?
Profenofos	2.00	20.0	100	3/6	6/6	6/6	0/6	0/6	0/6	-	20.0	-
Prometon	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Prometryn	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pronamide	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Propamocarb	1.00	10.0	50.0	4/5	5/5	5/5	4/5	5/5	5/5	1	10.0	10.0
Propanil	5.00	50.0	250	6/6	6/6	6/6	3/6	6/6	6/6	-	5.00	50.0
Propaphos	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Propaquizafop	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Propargite	1.00	10.0	50.0	0/6	6/6	6/6	0/6	0/6	6/6	-	10.0	50.0
Propazine	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Propiconazole	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Propisochlor	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Propoxur	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Pyraclofos	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Pyraclostrobin	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pyraflufen-ethyl	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Pyrazophos	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0

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	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Pyrazoxyfen	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Pyributicarb	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Pyridaben	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Pyridalyl	1.00	10.0	50.0	5/6	6/6	6/6	0/6	0/6	3/6	-	10.0	-
Pyridaphenthion	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pyrimethanil	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pyrimidifen	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pyriproxyfen	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Pyroquilon	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Quinalphos	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Quinoclamine	3.00	30.0	150	5/6	6/6	6/6	0/6	0/6	6/6	-	30.0	150
Quinoxiphen	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Quizalofop-ethyl	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Rabenzazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Rotenone	1.00	10.0	50.0	1/6	6/6	6/6	0/6	4/6	6/6	-	10.0	50.0
Sebutylazine	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Secbumeton	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Simazine	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Simeconazole	1.00	10.0	50.0	5/6	6/6	6/6	0/6	1/6	4/6	-	10.0	-
Simeton	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Spinosad	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Spiroxamine	2.00	20.0	100	3/6	6/6	6/6	0/6	6/6	6/6	-	20.0	20.0
Sulfentrazone	6.70	67.0	335	6/6	6/6	6/6	0/6	0/6	6/6	-	6.70	335
Sulfotep	1.60	16.0	80.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.60	16.0
Sulprofos	1.00	10.0	50.0	4/6	6/6	6/6	0/6	0/6	0/6	-	10.0	-
Tebuconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	3/6	6/6	-	1.00	50.0
Tebufenozide	1.00	10.0	50.0	0/6	3/6	6/6	0/6	0/6	6/6	-	50.0	50.0
Tebupirimfos	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Tebutam	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Temephos	2.00	20.0	100	3/6	6/6	6/6	0/6	0/6	0/6	-	20.0	-
Terbucarb	1.00	10.0	50.0	0/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Terbutylazine	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Terbutryne	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Tetrachlorvinphos	1.00	10.0	50.0	1/6	6/6	6/6	0/6	3/6	6/6	-	10.0	50.0
Tetraconazole	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Tetramethrin	1.00	10.0	50.0	0/6	6/6	6/6	0/6	0/6	0/6	-	10.0	-
Thiacloprid	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Thiamethoxam	4.00	40.0	200	6/6	6/6	6/6	6/6	6/6	6/6	-	4.00	4.00
Thiazafluron	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Thiazopyr	4.20	42.0	210	5/6	6/6	6/6	0/6	6/6	6/6	-	42.0	42.0
Thiobencarb	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Thiofanox sulfone	1.00	10.0	50.0	0/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Thiofanox sulfoxide	1.00	10.0	50.0	3/6	6/6	6/6	0/6	4/6	6/6	-	10.0	50.0

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	Low	Middle	High	Low	Middle	High	Low	Middle	High			
Thionazin	2.00	20.0	100	6/6	6/6	6/6	0/6	6/6	6/6	-	2.00	20.0
Thiophanate-methyl	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Tiocabazil	1.00	10.0	50.0	5/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Tolfenpyrad	1.00	10.0	50.0	3/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0
Tralkoxydim	1.00	10.0	50.0	0/6	6/6	6/6	0/6	0/6	0/6	-	10.0	-
Triadimefon	3.80	38.0	190	6/6	6/6	6/6	0/6	6/6	6/6	-	3.80	38.0
Triadimenol	1.00	10.0	50.0	0/6	3/6	6/6	0/6	0/6	6/6	-	50.0	50.0
Triapenthenol	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Triazophos	1.00	10.0	50.0	6/6	6/6	6/6	3/6	6/6	6/6	-	1.00	10.0
Tribufos	1.00	10.0	50.0	6/6	6/6	6/6	0/6	6/6	6/6	-	1.00	10.0
Trichlorfon	5.00	50.0	250	6/6	6/6	6/6	0/6	1/6	6/6	-	5.00	250
Tricyclazole	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Trietazine	1.00	10.0	50.0	6/6	6/6	6/6	4/6	6/6	6/6	-	1.00	10.0
Trifloxystrobin	4.00	40.0	200	6/6	6/6	6/6	3/6	6/6	6/6	-	4.00	40.0
Triflumizole	1.00	10.0	50.0	6/6	6/6	6/6	1/6	6/6	6/6	-	1.00	10.0
Triflumuron	2.20	22.0	110	2/6	6/6	6/6	0/6	3/6	6/6	-	22.0	110
Triticonazole	1.00	10.0	50.0	0/6	0/6	6/6	0/6	0/6	6/6	-	50.0	50.0
Vamidotion	1.00	10.0	50.0	6/6	6/6	6/6	6/6	6/6	6/6	-	1.00	1.00
Zoxamide	1.00	10.0	50.0	4/6	6/6	6/6	0/6	6/6	6/6	-	10.0	10.0

^a SDL of a given pesticide was established as the lowest spiked concentration level when the target analyte was detected in all test samples (i.e. 6 out of 6) by “MS¹ screening”.

^b LOI was defined as the lowest spiked concentration level when the target analyte was identified by “the MS² spectral library matching”.