

Supporting information

Table 1 The comparison of LODs and LOQs using the two methods GC-MS/MS and GC-MS.

Pesticide	LODs ($\mu\text{g kg}^{-1}$)		LOQs ($\mu\text{g kg}^{-1}$)	
	GC-MS/MS	GC-MS	GC-MS/MS	GC-MS
DDV	0.126	37.5	0.412	124
Metolcarb	0.598	12.5	1.97	41.3
Mevinphos	0.926	12.5	3.06	41.3
Isoprocab	0.428	25.0	1.41	82.5
Fenobucarb	0.410	12.5	1.36	41.3
Propoxur	0.212	8.00	0.698	26.4
Demeton methyl	1.03	10.0	3.40	33.0
Ethoprophos	0.452	18.8	1.49	62.0
Bendiocarb	2.02	10.0	6.68	33.0
Cadusafos	0.112	18.8	0.370	62.0
α -666	0.0800	12.5	0.262	41.3
Phorate	1.06	6.30	3.48	20.8
Thiometon	0.484	6.30	1.60	20.8
Rogor	0.278	3.00	0.920	9.90
Carbofuran	1.81	3.00	5.96	9.90
β -BHC	0.200	6.30	0.658	20.8
γ -666	0.504	12.5	1.66	41.3
Dioxathion	3.48	6.30	11.5	20.8
Terbufos	0.128	12.5	0.424	41.3

Fosopamine	0.028	6.30	0.0900	20.8
Chlorothalonil	0.0120	6.30	0.0420	20.8
Diazinon	0.0860	18.8	0.282	62.0
Disulfoton	0.630	6.30	2.08	20.8
δ-666	0.754	12.5	2.48	41.3
Dichlofenthion	1.72	6.30	5.68	20.8
Methyl- parathion	1.46	25.0	4.80	82.5
Heptachlor- epoxide	3.00	18.8	9.90	62.0
Fenchlorphos	0.144	12.5	0.478	41.3
Pirimiphos-methyl	2.94	12.5	9.70	41.3
Isodrin	6.52	12.5	21.6	41.3
Malathion	0.0660	25.0	0.216	82.5
Chlorpyrifos	1.35	6.30	4.46	20.8
Fenthion	0.300	6.30	0.988	20.8
Isocarbophos	6.26	12.5	20.6	41.3
Trichloronate	0.350	6.30	1.16	20.8
Bromophos-methyl	6.82	12.5	22.6	41.3
Pirimiphos	0.0720	6.30	0.234	20.8
Chlorfenvinphos	2.06	18.8	6.78	62.0
Mephosfolan	0.0180	12.5	0.0560	41.3
Quinalophos	0.114	6.30	0.376	20.8
Mecarbam	0.112	25.0	0.370	82.5

Dallethrin	18.8	6.30	61.8	20.8
Methidathion	0.778	12.5	2.56	41.3
Bromophos-ethyl	0.340	6.30	1.13	20.8
Paclobutrazol	2.58	18.8	8.54	62.0
Tetrachlorvinphos	2.12	18.8	6.98	62.0
Plondrel	4.06	6.30	13.4	20.8
Biodine sulphur Phosphorous	1.22	12.5	4.02	41.3
Prothiophos	1.57	6.30	5.17	20.8
Dieldrin	16.7	12.5	55.0	41.3
Profenofos	0.156	37.5	0.514	124
P,P'-DDE	0.0460	6.30	0.148	20.8
O,P'-DDT	0.0620	6.30	0.206	20.8
Ethion	0.0640	12.5	0.214	41.3
Sulprofos	3.66	12.5	12.1	41.3
Azamethiphos	6.82	6.30	22.6	20.8
P,P'-DDT	0.842	12.5	2.78	41.3
Phosmet	0.0400	12.5	0.134	41.3
EPN	0.364	25.0	1.20	82.5
Carbosulfan	2.42	5.00	7.98	16.5
Tetramethrin	12.3	12.5	40.6	41.3
Fenpropathrin	0.382	12.5	1.26	41.3
Leptophosandnbsp	7.00	12.5	23.1	41.3

Cyhalothrin	0.862	75.0	2.84	248
Pyrazophos	0.560	12.5	1.85	41.3
Alphacypermethrin	0.598	18.8	1.97	62.0
Coumaphos	0.136	37.5	0.45	124
Beta-cyfluthrin	0.0240	75.0	0.0800	248
Cyphenothrin	0.414	6.30	1.37	20.8
Fenvalerate	0.568	25.0	1.88	82.5
A-fenvalerate	0.496	25.0	1.64	82.5
Fluvalinate	0.508	75.0	1.68	248
Deltamethrin	1.57	37.5	5.18	124

Table 2 The log Kow values of the 73 pesticides.

Pesticide	log Kow
DDV	1.4
Metolcarb	1.7
Mevinphos	0.1
Isoprocarb	2.3
Fenobucarb	2.8
Propoxur	1.5
Demeton methyl	1.6
Ethoprophos	3.6
Bendiocarb	1.7
Cadusafos	3.9
α -BHC	3.7
Phorate	3.6
Thiometon	2.7
Rogor	0.8
Carbofuran	2.3
β -BHC	3.8
γ -BHC	3.7
Dioxathion	4.3
Terbufos	4.5
Fosopamine	-2.5
Chlorothalonil	2.9
Diazinon	3.8
Disulfoton	4.0
δ -BHC	4.1
Dichlofenthion	5.1
Methyl- parathion	2.9

Heptachlor- epoxide	3.7
Fenchlorphos	5.1
Pirimiphos-methyl	4.2
Prothiophos	4.9
Isodrin	4.5
Malathion	2.4
Chlorpyrifos	5.3
Fenthion	4.1
Isocarbophos	2.4
Trichloronate	5.2
Bromophos-methyl	5.2
Pirimiphos	4.8
Chlorfenvinphos	3.1
Mephosfolan	1.0
Quinalophos	4.4
Mecarbam	2.4
Allethrin	4.8
Methidathion	2.4
Bromophos-ethyl	6.1
Paclobutrazol	3.2
Tetrachlorvinphos	3.5
Plondrel	3.5
Ethyl parathion	3.8
Dieldrin	5.4
Profenofos	4.7
P,P'-DDE	6.5
O,P'-DDT	6.7
Ethion	5.1
Sulprofos	5.5

Azamethiphos	1.0
P,P'-DDT	6.9
Phosmet	2.8
EPN	4.4
Carbosulfan	5.7
Tetramethrin	4.7
Fenpropathrin	5.7
Leptophosandnbsp	6.3
Cyhalothrin	6.8
Pyrazophos	3.1
α -Cypermethrin	6.0
Coumaphos	4.5
β -Cyfluthrin	6.2
Cyphenothrin	6.9
Fenvalerate	6.2
α -Fenvalerate	6.2
Fluvalinate	7.7
Deltamethrin	6.2
