

Table 1 The molecular formula, retention time and ionic information of 255 pesticides by LC-Q-TOF/MS

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
1	1-naphthyl acetamide	C12H11NO	4.456	186.0913	115.0542,141.0699,142.0733,116.0576,91.0542
2	2,6-Dichlorobenzamide	C7H5Cl2NO	3.116	189.9821	172.9556,108.9840,144.9606,74.0151,100.0182
3	3,4,5-Trimethacarb	C11H15NO2	7.181	194.1176	137.0961,122.0726,109.1012,67.0542,55.0542
4	Aldicarb	C7H14N2O2S	4.547	134.0634	89.0419,70.0651,61.0106,116.0528,68.0495
5	Aldicarb-sulfone	C7H14N2O4S	2.625	223.0747	62.9899,86.0600,59.0491,58.0287,76.0393
6	Aldicarb-sulfoxide	C7H14N2O3S	2.261	207.0798	89.0419,49.0106,46.9950,58.0287,65.0056
7	Ametryn	C9H17N5S	6.688	228.1277	186.0808,68.0243,71.0604,96.0556,74.0059
8	Aminocarb	C11H16N2O2	2.157	209.1285	137.0835,152.1070,122.0600,136.0757,94.0651
9	Ancymidol	C15H16N2O2	5.157	257.1285	81.0447,135.0441,54.0338,107.0491,121.0648
10	Anilofos	C13H19ClNO3PS2	14.744	368.0305	124.9821,198.9647,170.9698,156.9541,78.9943
11	Aramite	C15H23ClO4S	17.347	352.1344	191.1430,111.0474,83.0855,193.1223,135.0804
12	Atraton	C9H17N5O	4.313	212.1506	68.0243,170.1036,100.0505,57.0447,69.0083
13	Atrazine-desisopropyl	C5H8ClN5	2.937	174.0541	68.0243,96.0556,104.0010,132.0323,79.0058
14	Azaconazole	C12H11Cl2N3O2	6.754	300.0301	158.9763,230.9974,172.9556,70.0400,122.9996
15	azadirachtin	C35H44O16	6.429	743.2522	565.1704,665.2228,725.2407,625.1916,83.0491
16	Aziprotryne	C7H11N7S	9.559	226.0869	68.0243,156.0338,125.0822,89.0168,58.0651
17	Azoxystrobin	C22H17N3O5	11.130	404.1241	329.0795,372.0979,372.0979,372.0979,372.0979
18	Beflubutamid	C18H17F4NO2	14.318	356.1268	91.0542,162.0913,177.1148,65.0386,221.0584
19	Benalaxyl	C20H23NO3	14.052	326.1751	91.0542,148.1121,208.1332,294.1489,121.0886
20	Bendiocarb	C11H13NO4	5.741	224.0917	81.0335,109.0284,167.0703,53.0386,59.0491
21	Benodanil	C13H10INO	8.287	323.9880	230.9301,202.9352,76.0308,105.0335,104.0257
22	Bensulide	C14H24NO4PS3	15.158	398.0678	313.9736,77.0386,158.0270,218.0304,141.0005
23	Benzovindiflupyr	C18H15Cl2F2N3O	14.366	398.0633	159.0364,342.0804,378.0571,344.0780,330.0195
24	Bitertanol	C20H23N3O2	12.674	338.1863	70.0400,99.0804,269.1536,57.0699,153.0699

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
25	Blastocidin-S	C17H26N8O5	0.769	423.2104	74.0713,312.1666,124.0393,154.0975,81.0335
26	Boscalid	C18H12Cl2N2O	11.199	343.0399	271.0866,307.0633,272.0944,111.9949,78.0338
27	Bromacil	C9H13BrN2O2	4.781	261.0233	204.9607,131.9443,54.0338,187.9342,161.9549
28	Bromfeninfos-Methyl	C10H10BrCl2O4P	11.021	374.8950	127.0155,169.9685,109.0051,248.8868,94.9894
29	Bromobutide	C15H22BrNO	13.752	312.0958	119.0855,194.0175,139.9529,137.9549,91.0542
30	Bromuconazole	C13H12BrCl2N3O	10.312	375.9614	158.9763,70.0400,172.9556,227.0007,306.9273
31	Bupirimate	C13H24N4O3S	12.670	317.1642	44.0495,166.0975,108.0114,210.1601,96.0444
32	Butafenacil	C20H18ClF3N2O6	14.180	492.1144	331.0092,349.0197,333.0067,475.0878,351.0172
33	Butamifos	C13H21N2O4PS	16.465	333.1032	95.9668,152.0293,180.0607,260.0141,231.9828
34	Cadusafos	C10H23O2PS2	14.620	271.0950	96.9508,130.9385,158.9698,215.0324,57.0699
35	Cafenstrole	C16H22N4O3S	12.779	351.1485	72.0444,100.0757,101.0787,73.0472
36	Carbendazim	C9H9N3O2	2.665	192.0767	160.0505,132.0556,105.0447,65.0386,92.0495
37	Carbofuran	C12H15NO3	5.793	222.1125	123.0441,165.0910,77.0386,55.0542,91.0542
38	Carbofuran-3-Hydroxy	C12H15NO4	3.547	238.1074	107.0491,163.0754,135.0804,181.0859,115.0542
39	Carfentrazone-ethyl	C15H14Cl2F3N3O3	14.241	412.0437	345.9956,347.9929,302.0302,366.0018,367.9991
40	Carpropamid	C15H18Cl3NO	14.613	334.0527	139.0309,196.0291,198.0262,160.0524,81.0699
41	Chlordimeform	C10H13ClN2	3.249	197.0840	117.0573,152.0262,125.0153,116.0495,58.0651
42	Chlorfenvinphos	C10H10Cl3O4P	13.700	358.9768	98.9843,155.0468,127.0155,169.9683,204.9371
43	Chloridazon	C10H8ClN3O	3.612	222.0429	77.0386,65.0386,92.0495,104.0495,100.9901
44	Chlorimuron-ethyl	C15H15ClN4O6S	10.662	415.0474	186.0060,83.0240,121.0284,184.9895,143.0002
45	Chlorpyrifos	C9H11Cl3NO3PS	17.739	321.9023	96.9508,197.9268,124.9821,293.8706
46	Chlorsulfuron	C12H14ClN2O3PS	5.936	358.0371	56.0495,141.0771,167.0564,110.9996,58.0287
47	Clodinafop-propargyl	C17H13ClFNO4	15.087	350.0590	91.0542,266.0367,222.0105,238.0418,159.0479
48	Clomazone	C12H14ClNO2	7.907	240.0786	125.0153,89.0386,98.9996,90.0464,126.0231
49	Cloransulam-methyl	C15H13ClFN5O5S	7.701	430.0383	369.9807,398.0121,152.9976,400.0094,371.9781

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
50	Crufomate	C12H19ClNO3P	10.700	292.0864	108.0209,236.0238,57.0699,238.0211,260.0602
51	Cyanazine	C9H13ClN6	5.143	241.0963	68.0243,214.0854,71.0604,104.0010,96.0556
52	Cyazofamid	C13H13ClN4O2S	14.217	325.0521	108.0114,216.0323,190.0292,182.0713,155.0604
53	Cycloate	C11H21NOS	15.349	216.1417	55.0542,83.0855,63.0263,154.1226,72.0444
54	Cycluron	C11H22N2O	6.404	199.1805	72.0444,69.0699,89.0709,55.0542,56.0131
55	Cyenopyrafen	C24H31N3O2	18.594	394.2489	310.1914,254.1301,57.0699,294.1601,184.0757
56	Cyflufenamid	C20H17F5N2O2	16.565	413.1283	203.0227,241.0395,295.0864,223.0289,221.0321
57	Cymiazole	C12H14N2S	3.846	219.0950	77.0386,144.0808,130.0651,105.0699,120.0808
58	Cymoxanil	C7H10N4O3	4.179	199.0826	53.0134,111.0189,128.0455,83.0240,58.0287
59	Cyprazine	C9H14ClN5	6.364	228.1010	186.0541,108.0556,68.0243,83.0604,56.0495
60	Cyproconazole	C15H18ClN3O	9.118	292.1211	70.0400,125.0153,126.0212,89.0386,110.9996
61	Cyprofuram	C14H14ClNO3	6.844	280.0735	69.0340,130.0651,131.0730,184.0519,166.0413
62	Daimuron	C17H20N2O	11.163	269.1648	91.0542,119.0855,151.0866,108.0808,106.0651
63	Demeton	C8H19O3PS2	7.624	259.0591	89.0419,61.0106,55.0542,69.0306,101.0870
64	Desethylterbuthylazine	C7H12ClN5	13.185	186.0541	188.0513,145.0150,83.0604,104.0010,110.0461
65	Desmetryn	C8H15N5S	5.209	214.1121	172.0651,82.0400,57.0447,68.0243,91.0324
66	Diazinon	C12H21N2O3PS	14.971	305.1083	96.9508,169.0794,153.1022,249.0454,277.0770
67	Dichlormid	C8H11Cl2NO	6.707	208.0290	84.0808,100.1121,98.0964,86.0964,58.0651
68	Diclocymet	C15H18Cl2N2O	13.362	313.0869	172.9919,174.9890,114.0913,141.1022,100.1121
69	Diclosulam	C13H10Cl2FN5O3S	8.156	405.9938	160.9794,377.9625,223.9327,314.0006,175.9658
70	Diethyltoluamide	C12H17NO	6.635	192.1383	91.0542,119.0491,65.0386,44.0131,72.0444
71	Difenoconazole	C19H17Cl2N3O3	14.570	406.0720	251.0025,252.9997,337.0393,339.0366,252.0059
72	Difenoxuron	C16H18N2O3	7.009	287.1390	72.0444,46.0651,123.0441,95.0491,214.0863
73	Dimethachlor	C13H18ClNO2	7.636	256.1099	148.1121,224.0837,105.0699,132.0808,48.9840
74	Dimethenamid	C12H18ClNO2S	9.562	276.0820	244.0557,111.0263,126.0372,168.0842,45.0335

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75	Dimethomorph	C21H22ClNO4	8.727	388.1310	165.0546,301.0626,138.9945,70.0287,242.0493
76	Dimethylvinphos	C10H10Cl3O4P	18.499	294.9688	296.9661,109.0049,172.9556,298.9636,295.9722
77	Dimetilan	C10H16N4O3	3.806	241.1295	72.0444,196.0717,56.0131
78	Diphenamid	C16H17NO	7.857	240.1383	134.0964,165.0699,152.0621,91.0542,167.0855
79	Dipropetryn	C11H21N5S	11.506	256.1590	102.0120,144.0338,214.1121,68.0243,172.0651
80	Dipropyl Isocinchomeronate	C13H17NO4	10.244	252.1230	164.0706,210.0761,192.0655,211.0793,165.0738
81	Dithiopyr	C15H16F5NO2S2	17.166	402.0615	248.0351,354.0582,296.0363,312.0135,334.0519
82	Epoxiconazole	C17H13ClFN3O	11.181	330.0804	121.0448,141.0102,70.0400,122.0482,261.0477
83	Esprocarb	C15H23NOS	17.201	266.1573	91.0542,71.0855,196.0791,92.0576,72.0890
84	Etaconazole	C14H15Cl2N3O2	10.778	328.0614	158.9745,55.0542,204.9804,160.9753,186.9698
85	Ethiofencarb-sulfone	C11H15NO4S	3.522	258.0795	107.0491,77.0386,79.0542,108.0570,201.0580
86	Ethiofencarb-sulfoxide	C11H15NO3S	3.157	242.0845	107.0491,77.0386,79.0542,185.0631,164.0706
87	Ethoprophos	C8H19O2PS2	10.857	243.0637	96.9508,130.9385,172.9854,215.0324,201.0167
88	ethychlozate	C11H11ClN2O2	7.000	239.0582	165.0214,138.0105,110.9996,167.0186,140.0076
89	Etofenprox	C25H28O3	19.608	394.2377	135.0804,177.1274,107.0491,183.0804,149.0961
90	Etoxazole	C21H23F2NO2	18.166	360.1770	141.0146,57.0699,304.1132,177.1274,113.0197
91	Etrimfos	C10H17N2O4PS	14.570	293.0719	124.982,178.9943,265.0406,46.9950,56.0495,
92	Famphur	C10H16NO5PS2	9.351	326.0280	93.0100,217.0073,280.9702,44.0495,109.0049
93	Fenamidone	C17H17N3OS	10.844	312.1165	92.0495,236.1182,65.0386,264.1131,103.0542
94	Fenamiphos	C13H22NO3PS	10.471	304.1131	201.9848,217.0083,234.0345,276.0818,262.0661
95	Fenamiphos-sulfone	C13H22NO5PS	5.572	336.1029	266.0247,308.0716,108.0573,188.0468,91.0545
96	Fenamiphos-sulfoxide	C13H22NO4PS	4.572	320.1080	108.0573,233.0032,171.0474,292.0767,156.0240
97	Fenfuram	C12H11NO2	6.686	202.0863	109.0284,53.0386,83.0491,120.0444,77.0386
98	Fenhexamid	C14H17Cl2NO2	11.036	302.0709	55.0542,97.1012,69.0699,143.0128,98.1090
99	Fenobucarb	C12H17NO2	8.819	208.1338	77.0386,95.0491,57.0699,152.0706,51.0229

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100	Fenothiocarb	C13H19NO2S	12.838	254.1209	72.0444,160.0791,161.0819,73.0472,149.0961
101	Fenoxycarb	C17H19NO4	12.974	302.1387	88.0393,116.0706,44.0495,256.0968,70.0287
102	Fenpiclonil	C11H6Cl2N2	8.991	236.9981	202.0292,140.0494,166.0525,167.0603
103	Fenpyrazamine	C17H21N3O2S	11.839	332.1427	189.0897,216.1131,230.1288,231.1366,131.0730
104	Fenuron	C9H12N2O	3.587	165.1022	72.0444,46.0651,77.0386,56.0131,44.0495
105	Ferimzone	C15H18N4	5.466	255.1604	132.0808,124.0869,117.0573,123.0791,96.0682
106	Flamprop-isopropyl	C19H19ClFNO3	15.102	364.1110	105.0335,77.0386,304.0530,106.0413,172.0319
107	Flonicamid	C9H6F3N3O	3.153	230.0536	203.0427,98.0401,148.0369,174.0161,146.0212
108	Florasulam	C12H8F3N5O3S	5.856	360.0373	129.0385,191.9914,130.0413,109.0318,128.0304
109	Fluacrypyrim	C20H21F3N2O5	16.687	427.1475	145.0648,205.0859,117.0699,115.0542,146.0686
110	Fluazifop-butyl	C19H20F3NO4	17.646	384.1417	91.0542,282.0725,328.0791,238.0474,254.0412
111	Flufenacet	C14H13F4N3O2S	13.064	364.0737	124.0557,152.0506,194.0976,109.0448,97.0448
112	Flufenoxuron	C21H11ClF6N2O3	17.788	489.0435	141.0146,158.0401,159.0441,142.0173,306.0298
113	Flufenpyr-ethyl	C16H13ClF4N2O4	13.894	409.0573	307.0256,335.0205,337.0179,309.0229,381.0260
114	Flufiprole	C16H10Cl2F6N4OS	16.426	508.0195	404.9950,376.0600,406.9922,423.9934,387.0289
115	Flumetsulam	C12H9F2N5O2S	4.116	326.0518	129.0385,262.0899,128.0306,130.0413,109.0320
116	Flumiclorac-pentyl	C21H23ClFNO5	17.492	441.1587	308.0484,354.0539,424.1321,356.0516,310.0460
117	Fluopyram	C16H11ClF6N2O	12.150	397.0537	173.0209,208.0135,145.0260,210.0107,170.0412
118	Fluoroglycofen-ethyl	C18H13ClF3NO7	17.141	465.0671	300.0034,343.9932,345.9908,302.0008,344.9964
119	Fluquinconazole	C16H8Cl2FN5O	11.419	376.0163	306.9836,108.0244,349.0054,351.0026,308.9808
120	fluroxypyr-meptyl	C15H21Cl2FN2O3	18.230	367.0986	254.9723,180.9725,208.9674,236.9617,178.9574
121	Flurprimidol	C15H15F3N2O2	9.346	313.1158	269.0533,270.0611,185.0709,295.1053,189.0158
122	Flusilazole	C16H15F2N3Si	12.384	316.1076	165.0697,247.0749,219.0436,157.0280,125.0217
123	Flutolanil	C17H16F3NO2	12.895	324.1206	262.0663,65.0386,242.0600,282.0725,93.0335
124	Flutriafol	C16H13F2N3O	6.377	302.1099	70.0400,123.0241,109.0448,95.0292 233.0773

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125	Fluxapyroxad	C18H12F5N3O	11.388	382.0973	342.0849,362.0911,314.0900,234.0525,363.0941
126	Fonofos	C10H15OPS2	15.244	247.0375	80.9558,108.9871,62.9453,137.0184,77.0386
127	Fosthiazate	C9H18NO3PS2	6.365	284.0544	104.0165,227.9909,199.9596,44.0495,61.0106
128	Furalaxyl	C17H19NO4	9.281	302.1387	95.0128,242.1176,270.1125,67.0178
129	Furathiocarb	C18H26N2O5S	17.281	383.1635	195.0474,162.0675,167.0525,125.0056,164.0832
130	Furmecyclox	C14H21NO3	13.090	252.1594	55.0542,110.0600,170.0812,83.0855,123.0441
131	Griseofulvin	C17H17ClO6	7.001	353.0786	69.0335,165.0546,215.0106,285.0524,199.9871
132	Haloxypop-2-ethoxyethyl	C19H19ClF3NO5	17.076	434.0977	91.0542,316.0347,272.0080,73.0653,288.0381
133	Hexazinone	C12H20N4O2	4.646	253.1659	71.0604,171.0876,85.0760,55.0542,83.0240
134	Imazamethabenz-methyl	C16H20N2O3	4.776	289.1547	86.0964,144.0444,229.1335,161.0709,69.0699
135	Imicyafos	C11H21N4O2PS	4.767	305.1196	201.0536,235.0413,139.0978,277.0883,202.0559
136	Indanofan	C20H17ClO3	13.696	341.0939	175.0754,187.0754,323.0833,159.0804,176.0788
137	Ipconazole	C18H24ClN3O	14.154	334.1681	70.0400,125.0153,71.0478,109.1012
138	Isazofos	C9H17ClN3O3PS	13.636	314.0490	119.9957,96.9508,162.0424,124.9821,272.0020
139	Isocarbamid	C8H15N3O2	3.561	186.1237	87.0553,70.0287,130.0611,59.0604,57.0699
140	isocarbophos	C11H16NO4PS	7.910	290.0616	121.0284,230.9875,198.9613,231.9906,122.0318
141	Isofenphos-Methyl	C14H22NO4PS	15.288	332.1080	121.0284,230.9868,137.0056,93.0335,109.9824
142	Isomethiozin	C12H20N4OS	13.349	269.1431	57.0699,200.0852,89.0168,116.0277,84.0808
143	Isoprothiolane	C12H18O4S2	12.231	291.0719	144.9776,231.0144,188.9675,61.0106,88.9514
144	Isoproturon	C12H18N2O	6.632	207.1492	72.0444,46.0651,165.1022,91.0542,134.0964
145	Isoxadifen-ethyl	C18H17NO3	14.451	296.1281	232.0757,203.0730,204.0808,,263.1067,176.0621
146	Karbutilate	C14H21N3O3	5.524	280.1656	72.0444,181.0972,136.0393,93.0335,108.0444
147	Mefenacet	C16H14N2O2S	10.859	299.0849	120.0808,148.0757,91.0542,192.011479.0542
148	Mefenpyr-diethyl	C16H18Cl2N2O4	15.570	373.0716	159.9715,327.0298,144.9606,185.9872,132.9606
149	Mepronil	C17H19NO2	12.208	270.1489	91.0542119.0491,228.1019,229.1097,120.0570

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150	Metalaxyl	C15H21NO4	6.684	280.1543	45.0335,192.1383,220.1332,160.1121,248.1281
151	Metamitron	C10H10N4O	3.468	203.0927	104.0495,175.0978,77.0386,174.0788,57.0447
152	Metazachlor	C14H16ClN3O	7.480	278.1055	134.0964,210.0662,105.0699,211.0740,135.1042
153	Metconazole	C17H22ClN3O	12.670	320.1524	70.0400,125.0153,71.0478,177.0447,95.0855
154	Methamidophos	C2H8NO2PS	1.586	142.0086	63.9947,94.0052,124.9821,78.9943,79.9896
155	Methfuroxam	C14H15NO2	9.307	230.1176	137.0597,67.0542,111.0804,77.0386,95.0491
156	Methoprotetryne	C11H21N5OS	6.576	272.1540	170.0495,198.0808,240.1277,125.0822,230.1070
157	Metobromuron	C9H11BrN2O2	7.048	259.0077	91.0416,169.9600,148.0631,119.0604,170.9678
158	Metribuzin	C8H14N4OS	5.253	215.0961	49.0106,57.0699,187.1012,46.9950,58.0400
159	Metsulfuron-Methyl	C14H15N5O6S	5.525	382.0816	167.0564,56.0495,135.0441,77.0386,58.0287
160	Monocrotophos	C7H14NO5P	2.768	224.0682	58.0287,127.0155,98.0600,109.0049,67.0182
161	Monolinuron	C9H11ClN2O2	6.569	215.0582	98.9996,126.0105,148.0631,127.0183,62.0600
162	Monuron	C9H11ClN2O	4.936	199.0633	72.0444,46.0651,98.9996,126.0105,44.0495
163	Myclobutanil	C15H17ClN4	10.545	289.1215	70.0400,125.0153,151.0309,116.0620,220.0888
164	Neburon	C12H16Cl2N2O	13.140	275.0712	57.0699,88.1121,58.0287,114.0913,159.9710
165	Norflurazon	C12H9ClF3N3O	7.052	304.0459	140.0306,87.9949,160.0369,284.0397,102.0105
166	Noruron	C13H22N2O	7.247	223.1805	72.0444,89.0709,135.1168,69.0699,136.1202
167	Novaluron	C17H9ClF8N2O4	16.656	493.0196	141.0146,158.0412,113.0197,140.0306,107.0491
168	Nuarimol	C17H12ClFN2O	8.104	315.0695	81.0447,243.0371,252.0819,288.0586,245.0345
169	Ofurace	C14H16ClNO3	6.650	282.0891	160.1121,254.0942,148.1121,145.0886,178.1226
170	Orbencarb	C12H16ClNOS	14.852	258.0714	125.0153,100.0757,89.0386,72.0444,98.9996
171	oxadiazon	C15H18Cl2N2O3	17.647	345.0767	303.0298,184.9874,219.9563,176.9505,148.9556
172	Oxadixyl	C14H18N2O4	4.975	279.1339	132.0808,133.0886,219.1128,45.0335,102.0550
173	Oxasulfuron	C17H18N4O6S	5.256	407.1020	150.0662,107.0604,124.0869,284.0210,209.9842
174	Oxycarboxin	C12H13NO4S	4.409	268.0638	175.0060,146.9747,83.0128,67.0178,68.9971

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
175	oxydemeton-methyl	C6H15O4PS2	2.639	247.0228	109.0049,169.0083,124.9821,78.9943,105.0369
176	Pebulate	C10H21NOS	15.321	204.1417	57.0699,128.1070,72.0444,176.1467,162.0947
177	Penconazole	C13H15Cl2N3	12.415	284.0716	70.0400,158.9763,122.9996,172.9919,159.9823
178	Penflufen	C18H24FN3O	12.964	318.1976	234.1037,141.0459,115.0666,57.0699,142.0486
179	Penoxsulam	C16H14F5N5O5S	7.767	484.0709	195.0751,194.0672,164.0567,166.0712,139.0500
180	Pentachlor	C13H18ClNO	13.475	240.1150	107.0730,142.0413,71.0855,106.0651,127.0178
181	Pethoxamid	C16H22ClNO2	12.367	296.1412	91.0542,131.0855,250.0993,116.0620,251.1071
182	Phorate-oxon-sulfone	C7H17O5PS2	4.171	277.0333	110.9664,183.0239,154.9926,249.0015,138.9977
183	Phorate-oxon-sulfoxide	C7H17O4PS2	3.457	261.0384	110.9664,243.0273,153.0134,124.9821,96.9508
184	Phorate-Sulfone	C7H17O4PS3	8.564	293.0099	96.9508,124.9821,247.0222,153.0134,142.9385
185	Phorate-Sulfoxide	C7H17O3PS3	6.287	277.0150	96.9508,142.9385,199.0011,170.9698,153.0134
186	Phosfolan	C7H14NO3PS2	4.126	256.0225	139.9566,167.9879,61.0106,227.9912,199.9599
187	Phosfolan-Methyl	C5H10NO3PS2	3.015	227.9912	61.0106,167.9879,109.0049,78.9943,135.9617
188	Phosphamidon	C10H19ClNO5P	4.661	300.0762	127.0155,174.0678,75.9949,72.0444,109.0049
189	Phoxim	C12H15N2O3PS	16.012	299.0616	77.0389,129.0447,96.9508,124.9821,153.0134
190	Piperonyl Butoxide	C19H30O5	17.089	297.1083	119.0855,177.0910,147.0804,149.0597,178.0944
191	Promecarb	C12H17NO2	9.705	208.1332	91.0542,109.0648,151.1117,94.0413,81.0699
192	Prometryn	C10H19N5S	8.751	242.1434	68.0243,158.0495,200.0964,85.0509,74.0059
193	Propachlor	C11H14ClNO	7.364	212.0837	94.0651,170.0367,77.0386,106.0651,48.9840
194	Propazine	C9H16ClN5	8.108	230.1167	146.0228,79.0058,68.0243,188.0697,104.0010
195	Propisochlor	C15H22ClNO2	14.315	284.1412	224.0832,133.0886,148.1121,73.0653,212.0832
196	Propyzamide	C12H11Cl2NO	11.025	256.0290	189.9821,144.9606,172.9556,44.0131,67.0542
197	Prosulfocarb	C14H21NOS	16.530	252.1417	91.0542,128.1070,65.0386,86.0600,92.0620
198	Prosulfuron	C15H16F3N5O4S	9.546	420.0948	141.0771,167.0564,142.0792,128.0693,168.0586
199	Prothiofos	C11H15Cl2O2PS2	19.092	344.9701	240.9041,160.9554,132.9604,161.9632,112.9279

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
200	Prothoate	C9H20NO3PS2	7.791	286.0695	96.9508,226.9960,142.9385,124.9821,74.0059
201	Pyracarbolid	C13H15NO2	6.001	218.1176	125.0597,55.0178,97.0284,83.0491,77.0386
202	Pyraclostrobin	C19H18ClN3O4	15.441	388.1055	194.0812,163.0628,133.0522,105.0573,149.0471
203	Pyraflufen-ethyl	C15H13Cl2F3N2O4	14.994	413.0277	253.0163,338.9904,260.9987,288.9930,254.0241
204	Pyrametostrobin	C21H23N3O4	12.501	382.1761	194.0812,163.0628,164.0706,149.0471,162.0550
205	Pyrazosulfuron-ethyl	C14H18N6O7S	9.658	415.1030	182.0560,139.0502,83.0240,369.0625,188.0124
206	Pyrazoxyfen	C20H16Cl2N2O3	13.893	403.0611	105.0335,139.0502,172.9556,119.0491,174.9527
207	Pyributicarb	C18H22N2O2S	17.842	331.1475	181.0430,133.1012,108.0444,190.1226,182.0456
208	Pyridaphenthion	C14H17N2O4PS	11.606	341.0719	92.0498,189.0659,96.9508,205.0430 65.0389
209	Pyriftalid	C15H14N2O4S	10.528	319.0747	139.0502,179.0161,83.0240,71.0604,93.0083
210	Pyrimitate	C11H20N3O3PS	14.726	306.1036	154.0975,96.9508,71.0604,95.0604,136.0869
211	Pyriproxyfen	C20H19NO3	17.531	322.1438	96.0444,78.0338,77.0386,129.0699,185.0597
212	Pyrisoxazole	C16H17ClN2O	6.625	289.1102	120.0444,151.0866,80.0495,122.0600,135.0917
213	Pyroquilon	C11H11NO	4.856	174.0913	117.0573,132.0808,130.0651,105.0699,90.0464
214	Sebuthylazine-desethyl	C7H12ClN5	4.455	202.0854	146.0228,68.0243,79.0058,104.0010,61.9792
215	Sedaxane	C18H19F2N3O	11.776	332.1569	159.0364,292.1444,312.1507,160.0392,293.1475
216	Siduron	C14H20N2O	8.545	233.1648	55.0542,137.0709,94.0651,77.0386,97.1012
217	Silthiofam	C13H21NOSSi	13.373	268.1186	73.0468,252.0873,139.0212,75.0261,45.0155
218	Sulfometuron-Methyl	C15H16N4O5S	5.872	365.0914	150.0662,151.0688,199.0060,124.0869,107.0604
219	Sulfotep	C8H20O5P2S2	15.760	323.0300	96.9508,171.0239,142.9926,114.9613,124.9821
220	Sulprofos	C12H19O2PS3	18.010	323.0358	218.9698,139.0212,247.0011,154.9715,124.0341
221	Tebuconazole	C16H22ClN3O	11.766	308.1526	70.0400,125.0153,59.0491,127.0124,57.0699
222	Tebufenpyrad	C18H24ClN3O	16.647	334.1681	117.0209,145.0522,132.0934,147.1168,119.0855
223	Tebupirimfos	C13H23N2O3PS	17.608	319.1240	153.1022,277.0770,249.0457,231.0352,57.0702
224	Tebutam	C15H23NO	12.361	234.1852	91.0542,65.0386,57.0699 192.1383 92.0620

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
225	Tebuthiuron	C9H16N4OS	4.519	229.1118	172.0903,62.0059,116.0277,57.0447,74.0059
226	Temephos	C16H20O6P2S3	17.776	466.9970	124.9821,418.9936,404.9780,248.9803,341.0066
227	Tepraloxydim	C17H24ClNO4	5.562	342.1467	166.0862,250.1437,251.1470,222.1488
228	Terbucarb	C17H27NO2	15.765	278.2115	109.0648,166.0863,222.1488,223.1521,167.0894
229	Terbufos	C9H21O2PS3	17.142	289.0514	57.0699,103.0576,96.9508,187.0011,199.0011
230	Terbufos-Sulfone	C9H21O4PS3	11.609	321.0412	275.0535,124.9821,142.9385,264.9786,153.0134
231	Terbufos-Sulfoxide	C9H21O3PS3	8.233	305.0463	130.9385,187.0011,158.9698,96.9508,57.0699
232	Terbumeton	C10H19N5O	5.598	226.1662	170.1036,69.0083,57.0447,68.0243,100.0505
233	Terbuthylazine	C9H16ClN5	8.803	230.1167	174.0541,68.0243,104.0010,79.0058,96.0556
234	Tetraconazole	C13H11Cl2F4N3O	11.834	372.0288	70.0400,158.9763,160.9734,159.9797,161.9767
235	Thenylchlor	C16H18ClNO2S	12.973	324.0820	127.0212,128.0242,129.0179,134.0964
236	Thiazafluron	C6H7F3N4OS	5.064	241.0365	74.0059,184.0151,111.0165,91.0102,164.0089
237	Thiazopyr	C16H17F5N2O2S	15.439	397.1004	377.0941,335.0472,61.0106,275.0261,303.0210
238	Thiobencarb	C12H16ClNOS	15.180	258.0714	125.0153,89.0386,100.0757,98.9996,90.0464
239	Thiodicarb	C10H18N4O4S3	5.715	355.0563	88.0189,107.9902,62.0025,46.9950,72.9981
240	Thionazin	C8H13N2O3PS	8.053	249.0457	174.9726,192.9831,124.9821,221.0144,153.0134
241	Tiocarbazil	C16H25NOS	18.296	280.1730	91.0542,100.0757,57.0699,224.1104,92.0576
242	Tolclofos-methyl	C9H11Cl2O3PS	15.665	300.9616	124.9821,110.9994,174.9710,78.9943,268.9354
243	Tolfenpyrad	C21H22ClN3O2	16.915	384.1473	197.0961,117.0214,145.0527,198.0995,171.0320
244	Triadimefon	C14H16ClN3O2	11.208	294.1005	57.0699,69.0699,197.0714,225.0659,98.9996
245	Triadimenol	C14H18ClN3O2	8.481	294.1005	70.0400,99.0804,227.0833,71.0413,57.0699
246	Triamiphos	C12H19N6OP	5.468	295.1431	135.0679,92.0260,73.0760,91.0182
247	Triasulfuron	C14H16ClN5O5S	6.000	402.0633	141.0771,167.0537,56.0495,137.0042,91.0542
248	Triazophos	C12H16N3O3PS	12.779	314.0722	119.0604,162.0662,96.9508,92.0495,77.0386
249	Tribufos	C12H27OPS3	18.880	315.1034	168.9905,57.0699,112.9279,170.9866,259.0408

No.	Pesticides	Formula	Retention time(min)	Precursor ion	Product ion
250	Trietazine	C ₉ H ₁₆ ClN ₅	11.351	230.1167	71.0604,68.0243,104.0010,99.0917,202.0854
251	Trifloxystrobin	C ₂₀ H ₁₉ F ₃ N ₂ O ₄	16.698	409.1370	145.0260,186.0525,116.0495,206.0812,131.0730
252	Triflumizole	C ₁₅ H ₁₅ ClF ₃ N ₃ O	14.986	346.0929	69.0447,73.0648,278.0554,280.0527,205.9979
253	Triticonazole	C ₁₇ H ₂₀ ClN ₃ O	9.293	318.1368	70.0400,125.0153,59.0496,71.0478,191.0622
254	Uniconazole	C ₁₅ H ₁₈ ClN ₃ O	10.568	292.1211	70.0400,125.0153,57.0699,71.0413,69.0699
255	Zoxamide	C ₁₄ H ₁₆ Cl ₃ NO ₂	14.934	336.0319	186.9712,158.9763,203.9973,122.9996,132.0574

Table 2 Linear range, linear equation, correlation coefficient and LOQ of matrix matching standard curve for the Radix Codonopsis and Angelica sinensis decoctions

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
1	1-naphthyl acetamide	5~100	$y=20863.289684x-61190.762634$	0.9982	5	5~100	$y=15499.804952x-25639.579047$	0.9983	5
2	2,6-Dichlorobenzamide	5~100	$y=2454.621952x-1393.720328$	0.9988	5	5~100	$y=1785.463921x-168.595496$	0.9994	5
3	3,4,5-Trimethacarb	5~100	$y=9593.822468x+35340.734953$	0.9974	5	5~100	$y=54338.690782x-51276.356292$	0.9996	5
4	Aldicarb	10~100	$y=1345.783725x-1867.788353$	0.9809	10	50~200	$y=889.455621x-15626.546264$	0.9865	50
5	Aldicarb-sulfone	5~100	$y=6064.354564x-1258.154657$	0.9963	5	5~100	$y=3361.678663x-7684.794863$	0.9978	5
6	Aldicarb-sulfoxide	5~100	$y=2852.265783x-402.987997$	0.9968	5	5~100	$y=4968.646737x-4550.805462$	0.9985	5
7	Ametryn	5~100	$y=209043.633281x-883919.874213$	0.9978	5	5~100	$y=175239.863884x-732730.565582$	0.9982	5
8	Aminocarb	5~100	$y=45456.728051x-237427.878320$	0.9958	5	5~100	$y=40084.426593x-211680.562299$	0.9964	5
9	Ancymidol	10~100	$y=37649.411039x-115014.846469$	0.9988	10	5~100	$y=20772.348284x-43564.211068$	0.9965	5
10	Anilofos	5~100	$y=84391.562782x-415829.818473$	0.9989	5	5~100	$y=74544.840739x-271313.571467$	0.9991	5
11	Aramite	10~100	$y=1085.570846x+4515.028760$	0.9942	10	10~100	$y=436.670953x+446.763662$	0.9934	10
12	Atraton	5~100	$y=200930.649955x-948397.981508$	0.9972	5	5~100	$y=153999.765229x-662264.283094$	0.9984	5
13	Atrazine-desisopropyl	5~100	$y=11103.294801x-9889.423544$	0.9960	5	5~100	$y=9629.989315x-19699.062077$	0.9976	5
14	Azaconazole	10~100	$y=2068.429336x-2640.908543$	0.9996	10	5~100	$y=1454.104942x-3659.674434$	0.9935	5
15	azadirachtin	5~100	$y=4784.880511x+26806.349591$	0.9930	5	5~100	$y=10263.374234x-4491.282985$	0.9965	5
16	Aziprotryne	5~100	$y=26088.743482x-147639.331196$	0.9918	5	5~100	$y=17325.468990x-66276.693613$	0.9961	5
17	Azoxystrobin	10~100	$y=4398.134345x-6769.098745$	0.9977	10	5~100	$y=26756.341894x-3432.454327$	0.9964	5
18	Beflubutamid	5~100	$y=18393.097211x-24634.423231$	0.9996	5	10~100	$y=14846.265694x-20239.841845$	0.9948	10
19	Benalaxyl	5~100	$y=125418.666172x-757912.475254$	0.9977	5	5~100	$y=112547.685768x-593443.585811$	0.9966	5
20	Bendiocarb	5~100	$y=2407.239157x+1323.108822$	0.9944	5	5~100	$y=1720.514628x+9724.704117$	0.9845	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
21	Benodanil	5~100	$y=56061.025048x-160705.496698$	0.9990	5	5~100	$y=46412.233510x-149240.290093$	0.9983	5
22	Bensulide	10~100	$y=12360.442477x-10854.251670$	0.9989	10	5~100	$y=17755.308563x-26582.696923$	0.9955	5
23	Benzovindiflupyr	5~100	$y=72040.184278x-196217.687154$	0.9988	5	5~100	$y=63932.462830x-177206.044022$	0.9995	5
24	Bitertanol	5~100	$y=5632.669847x+31977.591791$	0.9977	5	5~100	$y=5266.491229x+7879.228358$	0.9975	5
25	Blasticidin-S	5~100	$y=19.143091x+6684.157332$	0.9819	5	10~100	$y=145.174924x+1825.342577$	0.9945	10
26	Boscalid	5~100	$y=16097.975446x-3415.685733$	0.9998	5	5~100	$y=14786.222574x-25697.724367$	0.9994	5
27	Bromacil	10~100	$y=848.384451x+301.337065$	0.9992	10	50~200	$y=416.147109x-1552.160318$	0.9873	50
28	Bromfenvinfos-Methyl	5~100	$y=4854.324020x-1294.897763$	0.9998	5	5~100	$y=4300.597280x-494.024458$	0.9984	5
29	Bromobutide	5~100	$y=9018.285119x-29770.152292$	0.9982	5	10~100	$y=8052.079275x-23961.161783$	0.9991	10
30	Bromuconazole	10~100	$y=9975.527320x-13967.929996$	0.9997	10	5~100	$y=6646.730797x-20271.105616$	0.9970	5
31	Bupirimate	5~100	$y=259105.679559x-1415676.637584$	0.9954	5	5~100	$y=208614.092231x-1015652.528482$	0.9970	5
32	Butafenacil	10~100	$y=41087.012281x-138779.338431$	0.9985	10	5~100	$y=39293.876763x-285347.893909$	0.9979	5
33	Butamifos	5~100	$y=7728.488230x-11362.067672$	0.9984	5	10~100	$y=7496.203039x-14969.216879$	0.9993	10
34	Cadusafos	5~100	$y=5460.678424x-252.596786$	0.9979	5	5~100	$y=2734.459743x-3443.745594$	0.9994	5
35	Cafenstrole	10~100	$y=2858.881201x-1264.060014$	0.9923	10	10~100	$y=53930.932418x-284320.768965$	0.9944	10
36	Carbendazim	5~100	$y=5635.576358x-3562.557490$	0.9965	5	5~100	$y=3563.346115x-5342.446524$	0.9975	5
37	Carbofuran	5~100	$y=15675.444528x-646.668546$	0.9943	5	10~100	$y=4645.660968x-56.953576$	0.9983	10
38	Carbofuran-3-Hydroxy	10~100	$y=5467.513497x-356.459879$	0.9947	10	10~100	$y=2242.424543x-456.8978512$	0.9995	10
39	Carfentrazone-ethyl	5~100	$y=20382.988300x-43467.108037$	0.9991	5	10~100	$y=17680.829768x-59208.518302$	0.9991	10
40	Carpropamid	10~100	$y=12340.984950x-23787.691666$	0.9986	10	10~100	$y=10915.900857x-23930.850928$	0.9994	10
41	Chlordimeform	10~100	$y=29038.288708x-53745.860893$	0.9940	10	5~100	$y=23615.685506x-86142.744732$	0.9925	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
42	Chlorfenvinphos	5~100	$y=25573.900771x-97182.868198$	0.9977	5	10~100	$y=23168.355631x-115328.189450$	0.9994	10
43	Chloridazon	5~100	$y=42458.257852x-148319.433128$	0.9950	5	5~100	$y=28994.735628x-89366.061583$	0.9989	5
44	Chlorimuron-ethyl	10~100	$y=1218.452478x+1951.197993$	0.9978	10	10~100	$y=2054.257741x-4525.768956$	0.9868	10
45	Chlorpyrifos	5~100	$y=43469.570534x-4878.4438975$	0.9973	5	5~100	$y=32423.468572x-6462.466812$	0.9945	5
46	Chlorsulfuron	5~100	$y=45645.863572x-854.237972$	0.9965	5	5~100	$y=14754.543980x-754.672574$	0.9934	5
47	Clodinafop-propargyl	5~100	$y=28693.285565x-37935.248965$	0.9988	5	10~100	$y=30021.672517x-42975.242293$	0.9978	10
48	Clomazone	10~100	$y=24195.985056x-89910.801238$	0.9992	10	10~100	$y=21377.476038x-62470.320845$	0.9985	10
49	Cloransulam-methyl	5~100	$y=10655.304419x-25945.483144$	0.9983	5	10~100	$y=15324.951397x-39954.546014$	0.9987	10
50	Crufomate	5~100	$y=101124.791950x-296761.199386$	0.9990	5	5~100	$y=101618.948077x-395856.464379$	0.9993	5
51	Cyanazine	5~100	$y=24841.807203x-73127.245754$	0.9988	5	5~100	$y=22380.387993x-87039.747213$	0.9983	5
52	Cyazofamid	5~100	$y=5697.371179x-6509.824530$	0.9992	5	10~100	$y=4999.640666x-11846.077477$	0.9990	10
53	Cycloate	5~100	$y=7439.754122x-16389.008033$	0.9979	5	10~100	$y=7067.546733x-23115.887068$	0.9982	10
54	Cycluron	5~100	$y=113131.182833x-318948.123664$	0.9993	5	5~100	$y=69139.420452x-162495.658576$	0.9975	5
55	Cyenopyrafen	5~100	$y=437120.825847x-1282191.789140$	0.9991	5	10~100	$y=398363.839963x-1551304.649380$	0.9984	10
56	Cyflufenamid	10~100	$y=35569.257483x+7878.399449$	0.9994	10	5~100	$y=33725.535816x-18841.125301$	0.9974	5
57	Cymiazole	10~100	$y=101677.815247x+187517.760530$	0.9941	10	10~100	$y=54760.284785x-242415.435191$	0.9993	10
58	Cymoxanil	5~100	$y=77641.654868x+6763.7658715$	0.9976	5	5~100	$y=68662.678362x+5456.676325$	0.9965	5
59	Cyprazine	10~100	$y=79740.539857x-252556.400653$	0.9994	10	10~100	$y=34653.018900x-106511.681345$	0.9953	10
60	Cyproconazole	5~100	$y=46396.257399x-96549.614569$	0.9945	5	10~100	$y=47085.683454x-67999.219972$	0.9986	10
61	Cyprofuram	5~100	$y=24423.815302x-71718.699997$	0.9987	5	5~100	$y=21184.696407x-81209.936277$	0.9989	5
62	Daimuron	5~100	$y=65703.929395x-276296.414847$	0.9967	5	5~100	$y=63789.527534x-398132.618983$	0.9959	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
63	Demeton	5~100	$y=2463.653412x-612.762473$	0.9906	5	5~100	$y=1653.974621x-863.624863$	0.9890	5
64	Desethylterbuthylazine	5~100	$y=42801.957332x-179874.737754$	0.9944	5	5~100	$y=36178.268063x-134803.519293$	0.9987	5
65	Desmetryn	5~100	$y=339614.685415x-1552815.200972$	0.9981	5	5~100	$y=206968.770656x-846422.483887$	0.9975	5
66	Diazinon	5~100	$y=124216.918816x-571242.359537$	0.9970	5	5~100	$y=102979.781487x-423943.289002$	0.9983	5
67	Dichlormid	10~100	$y=890.231195x-614.614403$	0.9970	10	10~100	$y=556.893811x+1243.354878$	0.9973	10
68	Diclocymet	5~100	$y=1464.535242x+5823.748644$	0.9948	5	10~100	$y=1707.795105x+6965.213832$	0.9810	10
69	Diclosulam	5~100	$y=4721.853079x+8171.940617$	0.9990	5	10~100	$y=8392.707222x-16045.549874$	0.9996	10
70	Diethyltoluamide	5~100	$y=159243.740003x-388772.173595$	0.9991	5	10~100	$y=134207.832989x-342529.965948$	0.9987	10
71	Difenoconazole	5~100	$y=98119.385514x-50330.842933$	0.9994	5	5~100	$y=83061.362006x-92719.080069$	0.9981	5
72	Difenoxyuron	5~100	$y=169856.771136x-775034.639165$	0.9973	5	5~100	$y=136864.839353x-594279.244263$	0.9983	5
73	Dimethachlor	5~100	$y=48298.781479x-158383.755711$	0.9980	5	10~100	$y=41132.449007x-117220.823167$	0.9995	10
74	Dimethenamid	10~100	$y=40787.903233x-167188.543539$	0.9982	10	5~100	$y=21550.992736x-76482.973417$	0.9968	5
75	Dimethomorph	5~100	$y=21013.711736x-49655.587838$	0.9980	5	10~100	$y=25770.978306x-75537.800893$	0.9980	10
76	Dimethylvinphos	10~100	$y=2256.547102x-2028.919834$	0.9993	10	50~100	$y=1326.489992x-2040.246949$	0.9943	50
77	Dimetilan	5~100	$y=20656.935796x-101807.840040$	0.9919	5	5~100	$y=20955.278195x-103174.063442$	0.9991	5
78	Diphenamid	5~100	$y=175036.538116x-809579.664485$	0.9968	5	10~100	$y=162703.508640x-746512.808622$	0.9980	10
79	Dipropetryn	5~100	$y=292440.709128x-1421345.024884$	0.9970	5	5~100	$y=259068.836275x-1471532.049807$	0.9940	5
80	Dipropyl Isocinchomeronate	5~100	$y=81911.611506x-411715.358587$	0.9958	5	10~100	$y=70262.962287x-292865.366301$	0.9992	10
81	Dithiopyr	5~100	$y=9460.226467x-31803.712080$	0.9990	5	10~100	$y=3609.411689x+13568.508480$	0.9993	10
82	Epoxiconazole	5~100	$y=47434.664351x+31619.252689$	0.9986	5	5~100	$y=34818.001324x-51322.620468$	0.9985	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
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83	Esprocarb	5~100	$y=76958.374320x-277149.849905$	0.9983	5	5~100	$y=28789.249701x+15283.766662$	0.9985	5
84	Etaconazole	5~100	$y=65429.250554x-43245.613757$	0.9991	5	5~100	$y=50856.396635x-71117.255795$	0.9972	5
85	Ethiofencarb-sulfone	5~100	$y=6118.236038x-5275.645050$	0.9960	5	10~100	$y=4745.048887x+2821.377372$	0.9999	10
86	Ethiofencarb-sulfoxide	5~100	$y=11164.508945x+8985.140494$	0.9974	5	5~100	$y=8978.393492x+23345.933234$	0.9997	5
87	Ethoprophos	5~100	$y=154237.683258x-6467.6368$	0.9948	5	5~100	$y=89458.432848x-865.466095$	0.9992	5
88	ethychlozate	10~100	$y=10947.762478x-871.434746$	0.9993	10	5~100	$y=10168.309174x-16433.938356$	0.9999	5
89	Etofenprox	5~100	$y=5198.366965x-11170.736890$	0.9973	5	5~100	$y=2896.493722x-11451.629981$	0.9845	5
90	Etioazole	5~100	$y=431986.963472x-2095307.965530$	0.9971	5	5~100	$y=383687.828682x-1848685.200080$	0.9981	5
91	Etrimfos	5~100	$y=107893.851623x-494154.422807$	0.9970	5	5~100	$y=96441.830305x-423384.015321$	0.9986	5
92	Famphur	10~100	$y=10083.740559x-22403.674958$	0.9990	10	5~100	$y=7047.093792x-15988.094476$	0.9993	5
93	Fenamidone	10~100	$y=71002.936867x-159729.546005$	0.9997	10	5~100	$y=45391.743638x-116937.664657$	0.9989	5
94	Fenamiphos	5~100	$y=34980.450488x-1678.573682$	0.9976	5	5~100	$y=27867.514758x-2567.936746$	0.9996	5
95	Fenamiphos-sulfone	5~100	$y=27945.584268x-683.7783873$	0.9967	5	5~100	$y=18978.477903x-2786.793473$	0.9996	5
96	Fenamiphos-sulfoxide	5~100	$y=383682.279367x-16337.478472$	0.9973	5	5~100	$y=327857.434790x-14276.796463$	0.9996	5
97	Fenfuram	5~100	$y=42835.309390x-90516.555448$	0.9979	5	5~100	$y=26973.955437x-31098.217631$	0.9985	5
98	Fenhexamid	5~100	$y=9451.383937x+26561.117461$	0.9967	5	5~100	$y=8833.061288x+727.056754$	0.9982	5
99	Fenobucarb	5~100	$y=19525.502149x-35693.493003$	0.9988	5	5~100	$y=15271.027605x-35103.369140$	0.9959	5
100	Fenothiocarb	5~100	$y=18457.567455x-5678.736762$	0.9988	5	10~100	$y=16676.787352x-5677.345686$	0.9959	10
101	Fenoxycarb	5~100	$y=10728.222626x-1920.232274$	0.9998	5	10~100	$y=9589.612108x-9653.119782$	0.9982	10
102	Fenpiclonil	10~100	$y=1677.981624x+4558.682296$	0.9976	10	5~100	$y=917.287788x+206.934457$	0.9967	5
103	Fenpyrazamine	10~100	$y=115434.232915x-646368.667060$	0.9976	10	10~100	$y=108416.210312x-495242.413371$	0.9984	10

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104	Fenuron	5~100	$y=25389.156942x-104896.367576$	0.9936	5	5~100	$y=22067.144383x-72055.136088$	0.9971	5
105	Ferimzone	5~100	$y=198869.096448x-1083782.195603$	0.9955	5	5~100	$y=182097.436827x-791975.940944$	0.9986	5
106	Flamprop-isopropyl	5~100	$y=32803.035303x-201820.895059$	0.9963	5	10~100	$y=34924.492769x-95920.078246$	0.9994	10
107	Flonicamid	5~100	$y=1360.640103x+6409.966244$	0.9907	5	10~100	$y=982.674180x+6788.398941$	0.9893	10
108	Florasulam	5~100	$y=16029.585025x-6702.825898$	0.9995	5	5~100	$y=14612.109865x-26776.035619$	0.9989	5
109	Fluacrypyrim	5~100	$y=5194.044999x-11541.987632$	0.9988	5	10~100	$y=4870.268711x-7903.003174$	0.9991	10
110	Fluazifop-butyl	5~100	$y=183693.503809x-801191.737274$	0.9972	5	10~100	$y=158891.785572x-666850.994544$	0.9985	10
111	Flufenacet	5~100	$y=15091.468678x+871.161744$	0.9998	5	10~100	$y=14476.392321x-13019.791908$	0.9958	10
112	Flufenoxuron	5~100	$y=2377.585809x+15026.947213$	0.9841	5	10~100	$y=1874.973657x-401.705959$	0.9891	10
113	Flufenpyr-ethyl	5~100	$y=36784.744210x-128500.449291$	0.9996	5	10~100	$y=31553.344538x-98718.130285$	0.9989	10
114	Flufiprole	10~100	$y=4178.351978x+9875.785011$	0.9962	10	5~100	$y=3395.337646x+10399.113022$	0.9949	5
115	Flumetsulam	5~100	$y=26161.806536x-37079.061766$	0.9856	5	10~100	$y=20217.160791x+150002.767330$	0.9818	10
116	Flumiclorac-pentyl	10~100	$y=19927.296717x-37029.824448$	0.9991	10	5~100	$y=12067.314692x-19882.053111$	0.9957	5
117	Fluopyram	5~100	$y=121298.485832x-490738.179565$	0.9980	5	5~100	$y=94994.305228x-472254.133974$	0.9991	5
118	Fluoroglycofen-ethyl	10~100	$y=2010.033687x+594.847338$	0.9961	10	5~100	$y=615.949313x-2287.218872$	0.9974	5
119	Fluquinconazole	5~100	$y=4119.137172x+5409.385103$	0.9979	5	5~100	$y=3731.690771x+226.408231$	0.9979	5
120	fluroxypyr-meptyl	5~100	$y=3132.021449x+2197.499358$	0.9997	5	5~100	$y=1857.407331x-4084.910703$	0.9859	5
121	Flurprimidol	10~100	$y=38541.667381x-6951.985609$	0.9991	10	5~100	$y=16440.275602x+10461.553257$	0.9962	5
122	Flusilazole	10~100	$y=128487.645370x-249283.774609$	0.9996	10	5~100	$y=59685.474390x-76859.266717$	0.9974	5
123	Flutolanil	5~100	$y=66290.747293x-203956.250755$	0.9992	5	5~100	$y=49485.246694x-139123.674346$	0.9991	5
124	Flutriafol	10~100	$y=31818.456644x-2370.859769$	0.9977	10	10~100	$y=11421.506146x+5404.217162$	0.9905	10
125	Fluxapyroxad	10~100	$y=36167.370550x-57239.292001$	0.9996	10	5~100	$y=23840.606892x-46501.953648$	0.9974	5

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126	Fonofos	5~100	$y=6745.478231x-1467.474729$	0.9996	5	5~100	$y=2356.643148x+846.478371$	0.9932	5
127	Fosthiazate	5~100	$y=43579.842237x-36783.467328$	0.9986	5	10~100	$y=47568.863658x-17564.784763$	0.9965	10
128	Furalaxyl	5~100	$y=79251.401193x-348205.652551$	0.9977	5	5~100	$y=71096.808528x-451691.487098$	0.9872	5
129	Furathiocarb	10~100	$y=126204.102769x-886790.050585$	0.9957	10	5~100	$y=44073.374753x-152006.032152$	0.9953	5
130	Furmecyclox	5~100	$y=66078.287567x-257914.506976$	0.9979	5	5~100	$y=49476.884569x-130765.618015$	0.9977	5
131	Griseofulvin	5~100	$y=53282.001556x-103060.191123$	0.9991	5	5~100	$y=54879.888313x-167616.630205$	0.9988	5
132	Haloxfop-2-ethoxyethyl	5~100	$y=49068.784366x-201162.968242$	0.9978	5	5~100	$y=24954.781782x-79237.033535$	0.9971	5
133	Hexazinone	5~100	$y=100585.434777x-407506.338181$	0.9977	5	5~100	$y=85238.740132x-313652.927846$	0.9985	5
134	Imazamethabenz-methyl	5~100	$y=194325.264244x-950888.096424$	0.9965	5	5~100	$y=169393.969534x-789349.349214$	0.9982	5
135	Imicyafos	5~100	$y=135233.526285x-647677.725487$	0.9960	5	10~100	$y=124399.892575x-591011.469222$	0.9980	10
136	Indanofan	5~100	$y=2185.353020x-1785.479239$	0.9956	5	10~100	$y=1914.675717x+1624.664340$	0.9942	10
137	Ipconazole	5~100	$y=86593.905775x+4647.486370$	0.9989	5	5~100	$y=70497.030535x-96788.415175$	0.9991	5
138	Isazofos	5~100	$y=26575.782672x-75623.784572$	0.9968	5	5~100	$y=9577.562572x-15676.768367$	0.9986	5
139	Isocarbamid	10~100	$y=8506.579985x-6710.628874$	0.9988	10	10~100	$y=6096.913360x-9821.560239$	0.9984	10
140	isocarbophos	5~100	$y=2353.355098x-13458.454506$	0.9895	5	5~100	$y=1564.645903x-35453.564658$	0.9894	5
141	Isofenphos-Methyl	5~100	$y=45453.579167x-5345.577824$	0.9956	5	5~100	$y=36516.778246x-4677.857366$	0.9997	5
142	Isomethiozin	10~100	$y=103807.543658x-515478.641662$	0.9967	10	10~100	$y=97832.084917x-457453.785248$	0.9975	10
143	Isoprothiolane	5~100	$y=21707.892437x-78054.284955$	0.9965	5	5~100	$y=13727.100014x-50549.024609$	0.9986	5
144	Isoproturon	5~100	$y=110409.226932x-240824.407573$	0.9994	5	5~100	$y=89688.532952x-259674.914964$	0.9973	5
145	Isoxadifen-ethyl	5~100	$y=12633.630948x-20758.286407$	0.9969	5	5~100	$y=11456.977771x-29579.560886$	0.9985	5
146	Karbutilate	5~100	$y=73843.478996x-355471.666449$	0.9964	5	10~100	$y=63844.233614x-273396.879623$	0.9981	10

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147	Mefenacet	5~100	$y=72125.141790x-297450.528767$	0.9976	5	5~100	$y=66628.599608x-278067.341907$	0.9989	5
148	Mefenpyr-diethyl	5~100	$y=33439.766371x-168055.590373$	0.9991	5	10~100	$y=30459.554965x-129874.773328$	0.9980	10
149	Mepronil	5~100	$y=101501.150818x-404293.938675$	0.9984	5	5~100	$y=79872.532261x-312636.862142$	0.9989	5
150	Metalaxyl	5~100	$y=84858.106418x-341252.894539$	0.9974	5	10~100	$y=74241.420594x-314163.092942$	0.9983	10
151	Metamitron	5~100	$y=30890.492425x-59108.219561$	0.9976	5	5~100	$y=17912.547555x-12353.188855$	0.9988	5
152	Metazachlor	5~100	$y=13617.403962x-18640.405366$	0.9995	5	5~100	$y=12639.448645x-44031.828550$	0.9976	5
153	Metconazole	5~100	$y=76804.971117x+105042.491704$	0.9972	5	5~100	$y=49017.314859x+23891.490321$	0.9958	5
154	Methamidophos	5~100	$y=25645.634083x-4355.654542$	0.9962	5	5~100	$y=20346.445742x-2657.678541$	0.9997	5
155	Methfuroxam	5~100	$y=69741.623346x-216601.407601$	0.9982	5	5~100	$y=51987.268560x-93618.167542$	0.9971	5
156	Methoprottryne	5~100	$y=263539.992904x-1239411.204518$	0.9973	5	5~100	$y=206680.044163x-935116.113717$	0.9979	5
157	Metobromuron	5~100	$y=8077.086512x-12239.984581$	0.9996	5	5~100	$y=5225.160334x-9191.857657$	0.9979	5
158	Metribuzin	10~100	$y=61430.494794x-235223.485102$	0.9985	10	5~100	$y=26327.079185x-70083.161528$	0.9942	5
159	Metsulfuron-Methyl	5~100	$y=11062.364471x-12360.838554$	0.9990	5	10~100	$y=17082.043063x-48743.208238$	0.9973	10
160	Monocrotophos	5~100	$y=13557.975863x-26788.636578$	0.9974	5	5~100	$y=12485.345451x-1578.787468$	0.9936	5
161	Monolinuron	10~100	$y=9683.947803x-10780.355315$	0.9982	10	10~100	$y=4568.191793x-3113.538790$	0.9965	10
162	Monuron	5~100	$y=42926.365468x-148445.574441$	0.9980	5	5~100	$y=34112.471834x-93295.002636$	0.9984	5
163	Myclobutanil	5~100	$y=16009.501738x-28368.488188$	0.9991	5	10~100	$y=17688.419992x-55824.164759$	0.9996	10
164	Neburon	10~100	$y=56779.161265x-206032.489223$	0.9993	10	10~100	$y=56810.293635x-237944.831141$	0.9987	10
165	Norflurazon	5~100	$y=168385.314298x-654702.002363$	0.9983	5	5~100	$y=120255.057960x-448563.056361$	0.9984	5
166	Noruron	10~100	$y=185376.633090x-759073.976214$	0.9977	10	10~100	$y=164324.092543x-652598.896671$	0.9985	10
167	Novaluron	10~100	$y=443.402815x+4884.325388$	0.9895	10	10~100	$y=391.689516x+793.461583$	0.9933	10
168	Nuarimol	10~100	$y=40052.767354x-31122.919580$	0.9995	10	5~100	$y=23186.542343x-22073.358091$	0.9969	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
169	Ofurace	5~100	$y=47707.820918x-124600.025110$	0.9992	5	5~100	$y=35083.124784x-68682.742719$	0.9985	5
170	Orbencarb	5~100	$y=6494.541651x-2685.134489$	0.9996	5	10~100	$y=5936.577144x+9561.517443$	0.9954	10
171	oxadiazon	10~100	$y=1313.074506x+4993.401105$	0.9924	10	5~100	$y=740.133224x-1031.996081$	0.9873	5
172	Oxadixyl	10~100	$y=23280.372321x-90861.692935$	0.9981	10	5~100	$y=20197.962177x-64265.540081$	0.9985	5
173	Oxasulfuron	5~100	$y=16314.503920x-46867.676324$	0.9983	5	5~100	$y=9797.447204x-20939.185758$	0.9976	5
174	Oxycarboxin	10~100	$y=16701.552051x-45983.537707$	0.9994	10	5~100	$y=10260.130856x-8224.098090$	0.9982	5
175	oxydemeton-methyl	5~100	$y=10549.359843x-31943.464080$	0.9964	5	10~100	$y=6540.621053x-20958.516729$	0.9982	10
176	Pebulate	10~100	$y=5274.192303x-17816.918921$	0.9960	10	10~100	$y=5002.402089x-17972.379197$	0.9995	10
177	Penconazole	5~100	$y=38261.012730x+5348.039481$	0.9986	5	5~100	$y=24199.124918x-19207.047669$	0.9959	5
178	Penflufen	10~100	$y=146176.767336x-585209.406301$	0.9981	10	10~100	$y=132312.044985x-571162.555820$	0.9982	10
179	Penoxsulam	5~100	$y=70840.500873x-218708.897759$	0.9979	5	5~100	$y=102109.897032x-439663.436358$	0.9989	5
180	Pentanochlor	5~100	$y=88447.081715x-450149.971725$	0.9893	5	5~100	$y=99633.671782x-652492.749169$	0.9963	5
181	Pethoxamid	10~100	$y=72412.861975x-316453.192359$	0.9980	10	5~100	$y=47937.721670x-251843.675082$	0.9992	5
182	Phorate-oxon-sulfone	5~100	$y=8467.657845x-34657.7894663$	0.9956	5	10~100	$y=5235.456452x-24574.468243$	0.9938	10
183	Phorate-oxon-sulfoxide	5~100	$y=36867.936725x-4563.562445$	0.9975	5	5~100	$y=25657.565724x-52435.7893562$	0.9978	5
184	Phorate-Sulfone	5~100	$y=45672.783673x-7678.478633$	0.9987	5	5~100	$y=36575.097136x-2577.785676$	0.9946	5
185	Phorate-Sulfoxide	5~100	$y=16786.867257x-2578.686357$	0.9890	5	5~100	$y=5676.768864x+2786.768453$	0.9898	5
186	Phosfolan	5~100	$y=26775.467434x-2564.463246$	0.9976	5	5~100	$y=7656.574525x-5575.573247$	0.9956	5
187	Phosfolan-Methyl	5~100	$y=23435.546434x-5565.546244$	0.9905	5	5~100	$y=208391.203829x-5768.786455$	0.9995	5
188	Phosphamidon	5~100	$y=23565.573423x-4557.789253$	0.9945	5	5~100	$y=16785.678635x-1566.673415$	0.9992	5
189	Phoxim	5~100	$y=33756.457925x-67824.567892$	0.9934	5	5~100	$y=24352.889462x-45671.568256$	0.9994	5
190	Piperonyl Butoxide	5~100	$y=135645.567221x-56768.787946$	0.9931	5	10~100	$y=93465.134866x-86793.678442$	0.9945	10

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
191	Promecarb	10~100	$y=9037.151529x+14306.824190$	0.9930	10	10~100	$y=3801.723639x+63230.489440$	0.9956	10
192	Prometryn	5~100	$y=7566.565724x-4456.787936$	0.9963	5	10~100	$y=5346.657683x-56673.676835$	0.9957	10
193	Propachlor	10~100	$y=37055.458601x-118501.019575$	0.9984	10	10~100	$y=30642.044166x-94377.848760$	0.9993	10
194	Propazine	5~100	$y=169541.616801x-773893.252125$	0.9917	5	5~100	$y=123416.429954x-311319.663729$	0.9966	5
195	Propisochlor	5~100	$y=7756.925052x-11840.766117$	0.9984	5	10~100	$y=6863.981041x+7118.434448$	0.9981	10
196	Propyzamide	5~100	$y=3787.249675x-2228.423029$	0.9950	5	5~100	$y=3309.484272x-2689.750749$	0.9953	5
197	Prosulfocarb	5~100	$y=49794.552244x-148436.905215$	0.9991	5	5~100	$y=47042.542790x-188520.658876$	0.9984	5
198	Prosulfuron	5~100	$y=4208.152335x-3289.374944$	0.9958	5	10~100	$y=2668.247898x+460.500231$	0.9957	10
199	Prothiofos	10~100	$y=1214.946252x-1623.764696$	0.9997	10	10~100	$y=1115.019174x-5809.632245$	0.9983	10
200	Prothoate	5~100	$y=59815.224908x-246253.722900$	0.9976	5	10~100	$y=52889.160984x-191963.243929$	0.9992	10
201	Pyracarbolid	5~100	$y=88202.525665x-361430.058009$	0.9978	5	5~100	$y=73684.180754x-272532.350757$	0.9983	5
202	Pyraclostrobin	5~100	$y=43446.566835x-14556.676835$	0.9994	5	5~100	$y=34664.565724x-46573.678351$	0.9964	5
203	Pyraflufen-ethyl	5~100	$y=27352.999643x-5876.716393$	0.9982	5	10~100	$y=40965.806647x-62809.597623$	0.9961	10
204	Pyrametostrobin	5~100	$y=85129.057755x-486628.436726$	0.9983	5	5~100	$y=67428.777999x-280849.655057$	0.9987	5
205	Pyrazosulfuron-ethyl	5~100	$y=17477.444521x-51741.514133$	0.9992	5	5~100	$y=10174.690216x-12840.037918$	0.9972	5
206	Pyrazoxyfen	5~100	$y=69587.935754x-230995.749504$	0.9986	5	5~100	$y=64793.017112x-232467.021371$	0.9994	5
207	Pyributicarb	5~100	$y=139680.861378x-553641.964691$	0.9983	5	10~100	$y=127270.238952x-623104.921764$	0.9986	10
208	Pyridaphenthion	5~100	$y=69460.491020x-284200.787872$	0.9993	5	10~100	$y=65801.875648x-238534.221046$	0.9991	10
209	Pyrifitalid	5~100	$y=201380.681534x-1087462.719612$	0.9948	5	5~100	$y=181626.753860x-1170782.000742$	0.9959	5
210	Pyrimitate	5~100	$y=200278.099614x-1160310.204136$	0.9980	5	5~100	$y=181733.324801x-990149.271336$	0.9986	5
211	Pyriproxyfen	5~100	$y=144520.737494x-627004.613732$	0.9980	5	5~100	$y=112622.037423x-613024.950299$	0.9990	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
212	Pyrisoxazole	10~100	$y=37724.690355x-174076.146925$	0.9978	10	5~100	$y=29536.635106x-122023.920358$	0.9990	5
213	Pyroquilon	5~100	$y=90561.400437x-297109.576979$	0.9984	5	5~100	$y=70586.126395x-217845.680549$	0.9983	5
214	Sebuthylazine-desethyl	5~100	$y=16602.355889x-28624.789564$	0.9970	5	5~100	$y=12435.175420x-9666.876654$	0.9993	5
215	Sedaxane	5~100	$y=12180.142591x-15414.894374$	0.9982	5	5~100	$y=8911.096653x-10238.289494$	0.9960	5
216	Siduron	5~100	$y=87416.936012x-357744.696030$	0.9966	5	10~100	$y=29622.120519x-71876.471003$	0.9986	10
217	Silthiofam	5~100	$y=44013.186407x-313390.857450$	0.9978	5	10~100	$y=43420.934597x-170824.921526$	0.9988	10
218	Sulfometuron-Methyl	5~100	$y=25740.226114x-90952.687392$	0.9972	5	10~100	$y=21355.700412x-68120.304107$	0.9993	10
219	Sulfotep	5~100	$y=6150.664390x-22263.659473$	0.9973	5	5~100	$y=5762.217841x-20690.925205$	0.9986	5
220	Sulprofos	5~100	$y=88838.512015x-369211.689037$	0.9919	5	5~100	$y=91536.637401x-203342.257741$	0.9986	5
221	Tebuconazole	5~100	$y=48636.368786x-90928.798981$	0.9997	5	10~100	$y=39039.976326x-137306.948666$	0.9974	10
222	Tebufenpyrad	10~100	$y=142555.184947x-662617.518515$	0.9979	10	10~100	$y=86599.881477x-338591.334060$	0.9979	10
223	Tebupirimfos	10~100	$y=70442.511914x-276665.457349$	0.9971	10	5~100	$y=58751.980923x-229015.424491$	0.9982	5
224	Tebutam	10~100	$y=142555.184947x-662617.518515$	0.9979	10	5~100	$y=86599.881477x-338591.334060$	0.9979	5
225	Tebuthiuron	5~100	$y=70442.511914x-276665.457349$	0.9971	5	5~100	$y=58751.980923x-229015.424491$	0.9982	5
226	Temephos	5~100	$y=24896.773812x-14640.956526$	0.9993	5	5~100	$y=21794.532963x-34865.599777$	0.9969	5
227	Tepraloxymid	5~100	$y=5639.964217x-10207.940923$	0.9972	5	10~100	$y=2179.060795x+5487.889404$	0.9909	10
228	Terbucarb	5~100	$y=3921.509965x+583617.783030$	0.9891	5	10~100	$y=2799.367974x+456763.236717$	0.9906	10
229	Terbufos	5~100	$y=7846.678672x-26576.565724$	0.9945	5	5~100	$y=5673.673752x-16575.783543$	0.9956	5
230	Terbufos-Sulfone	5~100	$y=14356.676852x-55674.788244$	0.9975	5	5~100	$y=8685.577424x-66765.797861$	0.9917	5
231	Terbufos-Sulfoxide	5~100	$y=12687.568367x-45663.678347$	0.9987	5	5~100	$y=9735.567145x-4566.782564$	0.9956	5
232	Terbumeton	5~100	$y=199503.105600x-818754.220054$	0.9925	5	10~100	$y=162473.239294x-289889.265455$	0.9919	10
233	Terbuthylazine	5~100	$y=69172.969086x-208966.669702$	0.9983	5	5~100	$y=50174.785891x+44712.145421$	0.9894	5

No.	Pesticides	Radix codonopsis				Angelica sinensis			
		Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)	Linear range ($\mu\text{g/L}$)	Linear equation	R^2	LOQ ($\mu\text{g/L}$)
234	Tetraconazole	5~100	$y=39667.641372x-51182.319585$	0.9996	5	5~100	$y=32803.232307x-67777.335925$	0.9982	5
235	Thenylchlor	5~100	$y=2887.353687x-941.484908$	0.9994	5	5~100	$y=2561.856022x-2540.285976$	0.9999	5
236	Thiazafluron	5~100	$y=4665.515181x-10586.320172$	0.9981	5	5~100	$y=3759.709746x-6137.963462$	0.9980	5
237	Thiazopyr	5~100	$y=149872.845237x-660857.231826$	0.9973	5	10~100	$y=135452.377502x-560569.054638$	0.9990	10
238	Thiobencarb	10~100	$y=6522.911556x-3635.588450$	0.9994	10	50~200	$y=6008.657561x+7312.453189$	0.9944	50
239	Thiodicarb	5~100	$y=13933.441405x-47874.537015$	0.9965	5	10~100	$y=13396.101346x-32488.150171$	0.9977	10
240	Thionazin	5~100	$y=8194.793980x-13180.229935$	0.9982	5	10~100	$y=8516.068240x-45942.487963$	0.9946	10
241	Tiocabazil	5~100	$y=97988.953869x-596736.564945$	0.9953	5	10~100	$y=55112.493331x-189919.756025$	0.9975	10
242	Tolclofos-methyl	5~100	$y=1206.676363x+832.592755$	0.9991	5	5~100	$y=1110.860972x-3063.989850$	0.9985	5
243	Tolfenpyrad	5~100	$y=54273.540574x-136774.277478$	0.9991	5	5~100	$y=42195.282334x-124506.964519$	0.9989	5
244	Triadimefon	10~100	$y=53453.465624x-54624.678674$	0.9934	10	10~100	$y=17343.454213x-3454.798466$	0.9983	10
245	Triadimenol	5~100	$y=15674.189461x-89805.789743$	0.9923	5	5~100	$y=12452.456424x-54657.676835$	0.9975	5
246	Triamiphos	5~100	$y=196045.500671x-958440.041992$	0.9966	5	5~100	$y=156680.558453x-727554.461231$	0.9979	5
247	Triasulfuron	5~100	$y=35158.949749x-97925.182150$	0.9989	5	5~100	$y=30840.456553x-101780.509831$	0.9988	5
248	Triazophos	10~100	$y=13547.8473562x-65768.657215$	0.9986	10	50~200	$y=34513.774625x-62772.657714$	0.9948	50
249	Tribufos	5~100	$y=130316.432323x-578464.013137$	0.9974	5	5~100	$y=103568.209004x-444293.470082$	0.9978	5
250	Trietazine	5~100	$y=137264.879443x-627767.322574$	0.9972	5	5~100	$y=81014.760906x-267854.726955$	0.9984	5
251	Trifloxystrobin	5~100	$y=137821.460477x-515982.052577$	0.9984	5	10~100	$y=120050.198334x-473056.931513$	0.9990	10
252	Triflumizole	5~100	$y=23474.097895x-86371.236188$	0.9973	5	5~100	$y=21320.773415x-67537.232157$	0.9993	5
253	Triticonazole	5~100	$y=45193.319767x-64823.945814$	0.9995	5	5~100	$y=31943.214989x-13638.986659$	0.9997	5
254	Uniconazole	10~100	$y=60339.617773x+8249.495425$	0.9978	10	5~100	$y=33648.984759x-44084.033905$	0.9967	5
255	Zoxamide	5~100	$y=24126.349454x-21460.103861$	0.9991	5	10~100	$y=28777.356287x-61448.316919$	0.9985	10

Table 3 ME, recovery and RSD of 255 pesticides for Radix Codonopsis and Angelica sinensis decoctions

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
1	1-naphthyl acetamide	-34.41	106.77	6.51	103.61	4.43	93.87	2.05	-51.27	104.12	6.94	93.44	13.09	104.05	2.83
2	2,6-Dichlorobenzamide	-57.54	87.74	15.62	110.57	9.07	104.61	2.08	-69.11	117.88	8.62	116.69	18.37	117.33	5.04
3	3,4,5-Trimethacarb	-58.23	78.06	5.96	101.12	5.90	108.02	11.32	136.59	109.91	7.71	116.23	3.69	115.09	1.25
4	Aldicarb	-12.95	45.64	18.53	77.67	7.57	96.45	4.86	-42.47	37.37	37.32	83.28	32.48	99.35	12.59
5	Aldicarb-sulfone	-14.15	89.67	2.45	81.51	6.79	113.15	16.46	-52.41	77.17	19.80	83.67	4.77	91.36	11.57
6	Aldicarb-sulfoxide	-15.99	90.34	5.89	98.06	16.68	99.12	9.58	46.35	93.72	5.69	105.94	2.75	105.67	7.33
7	Ametryn	-17.99	99.00	9.92	91.53	4.43	85.45	0.55	-31.25	104.97	7.54	94.90	1.69	81.50	0.82
8	Aminocarb	-35.12	113.66	8.61	110.57	4.45	100.04	1.55	-42.79	116.23	11.82	117.42	5.29	116.52	2.02
9	Ancymidol	-59.01	142.82	6.06	105.49	6.50	98.49	2.07	-77.38	74.94	8.54	114.16	9.41	109.62	2.54
10	Anilofos	-11.17	83.08	8.88	110.63	8.38	117.87	10.54	-21.54	112.14	5.42	111.74	2.68	104.95	1.16
11	Aramite	-27.29	183.71	14.58	101.93	13.23	101.53	3.35	-70.75	26.18	75.82	108.65	15.93	98.45	7.11
12	Atraton	-22.54	112.13	10.21	92.95	3.61	87.00	1.32	-40.63	106.80	9.41	96.13	5.11	84.00	1.81
13	Atrazine-desisopropyl	-77.64	105.74	8.93	90.29	6.18	100.66	5.42	-80.61	102.77	11.20	96.14	9.46	95.60	3.67
14	Azaconazole	-97.15	160.28	22.21	98.19	18.18	85.60	3.84	-98.00	77.16	16.87	108.91	16.91	81.82	4.12
15	azadirachtin	38.82	88.30	15.44	96.63	4.66	94.84	1.28	197.76	112.62	6.36	116.13	4.50	99.73	3.37
16	Aziprotryne	-23.31	98.74	3.10	103.86	9.34	89.17	7.85	-49.07	87.40	12.35	87.52	8.67	111.49	10.03
17	Azoxystrobin	-48.54	142.82	5.19	112.25	2.91	93.72	1.41	213.09	77.20	9.07	119.08	2.88	101.13	1.59
18	Beflubutamid	-14.36	108.22	9.65	108.71	5.33	109.00	1.61	-30.88	49.77	45.94	103.23	3.98	113.69	1.34
19	Benalaxyl	-12.17	99.71	11.13	116.83	3.93	109.73	1.67	-21.18	115.80	7.33	118.02	4.01	110.57	2.04
20	Bendiocarb	-30.54	119.00	3.33	99.33	6.17	95.63	9.70	-50.35	103.57	9.87	79.33	4.61	114.04	10.60
21	Benodanil	-17.12	110.13	10.16	115.73	3.50	108.10	1.23	-31.38	118.25	7.42	114.53	1.84	115.17	1.67

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
22	Bensulide	-12.00	88.07	52.64	111.35	5.12	113.71	1.79	26.41	110.20	7.15	114.87	4.87	113.35	1.82
23	Benzovindiflupyr	-6.66	102.08	10.83	93.71	4.29	86.72	1.18	-17.16	115.40	11.23	116.97	2.69	91.86	1.14
24	Bitertanol	-21.82	114.64	11.27	99.66	4.30	96.95	1.02	-26.91	117.05	4.91	118.96	3.18	101.33	0.69
25	Blasticidin-S	-36.19	89.07	16.25	86.30	14.25	84.98	11.22	183.92	66.75	22.65	113.66	17.13	77.13	16.54
26	Boscalid	-11.20	93.93	9.05	88.45	5.07	81.42	0.99	-18.44	109.54	9.59	108.59	4.14	92.35	1.35
27	Bromacil	-22.52	192.49	24.23	87.39	13.70	107.18	7.87	-62.00	60.84	49.12	203.55	26.33	105.95	7.14
28	Bromfenvinfos-Methyl	-19.73	115.08	10.28	118.72	7.61	111.73	3.00	-28.89	110.52	11.03	114.03	6.12	112.61	3.00
29	Bromobutide	-15.34	82.00	10.16	79.31	4.41	70.55	1.70	-24.41	122.46	48.47	83.95	18.81	82.08	5.48
30	Bromuconazole	-19.95	64.60	10.67	78.64	3.96	74.40	0.83	-46.67	115.26	8.50	73.95	4.24	72.25	1.76
31	Bupirimate	-12.78	107.16	9.84	93.47	3.99	87.58	1.15	-29.77	114.02	7.74	104.77	3.20	86.94	1.92
32	Butafenacil	0.52	148.52	16.31	110.13	4.17	108.77	1.70	-3.86	116.69	10.89	113.80	2.20	111.18	0.75
33	Butamifos	-14.14	86.33	10.87	87.34	4.72	75.10	2.54	-16.72	140.12	13.37	89.40	15.35	82.22	1.94
34	Cadusafos	-20.27	117.06	7.48	83.31	8.23	78.43	1.41	-60.08	103.77	19.76	75.09	8.58	111.72	15.18
35	Cafenstrole	-0.36	18.36	18.39	106.29	13.04	96.47	10.11	179.60	37.91	18.10	116.44	17.38	72.98	16.83
36	Carbendazim	-18.27	110.38	9.56	115.67	2.31	109.67	1.32	-48.32	116.49	6.47	118.36	3.72	114.51	0.69
37	Carbofuran	-12.25	114.25	16.31	104.11	4.88	108.71	2.69	-73.99	140.76	17.75	113.83	1.97	115.23	1.84
38	Carbofuran-3-Hydroxy	-13.99	172.65	41.88	82.84	18.74	87.85	18.11	-64.73	13.27	89.15	91.34	4.95	82.53	17.18
39	Carfentrazone-ethyl	-4.91	112.20	12.70	94.81	8.19	96.26	1.00	-17.51	143.02	17.17	119.98	5.42	109.86	5.02
40	Carpropamid	-10.48	56.54	15.30	71.37	7.91	75.00	4.75	-20.81	145.05	12.27	77.03	6.30	77.30	1.85
41	Chlordimeform	-42.61	189.51	3.37	94.56	4.35	83.28	2.20	-53.32	72.51	8.73	76.17	6.06	78.57	11.24
42	Chlorfenvinphos	-13.43	104.73	4.01	115.62	8.10	106.22	5.99	-21.57	146.29	27.07	98.79	13.25	108.10	4.18
43	Chloridazon	-65.11	89.72	5.14	111.35	3.15	99.00	4.70	-76.17	119.05	5.30	117.22	1.64	114.18	1.16
44	Chlorimuron-ethyl	-26.18	53.91	37.03	73.05	11.47	79.91	5.84	24.45	28.11	18.41	95.83	16.45	79.82	7.58

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
45	Chlorpyrifos	-19.31	109.94	8.45	100.97	5.82	102.98	3.47	-39.81	112.79	5.62	115.95	5.93	106.66	1.92
46	Chlorsulfuron	947.26	110.45	8.45	87.33	4.45	78.00	18.72	238.51	91.49	5.04	70.70	13.70	84.87	16.04
47	Clodinafop-propargyl	-21.44	108.22	14.08	105.57	4.19	110.66	2.97	-17.80	148.41	9.34	118.60	4.62	119.04	1.55
48	Clomazone	-13.43	40.71	10.03	112.66	4.61	105.13	11.62	-23.51	148.58	17.87	119.10	6.97	113.08	2.17
49	Cloransulam-methyl	10.25	118.83	10.17	113.76	3.83	111.45	3.87	58.57	149.92	10.08	113.92	2.83	117.23	1.86
50	Crufomate	-17.89	108.42	10.88	99.50	3.97	90.46	1.11	-17.49	110.14	6.84	115.62	3.13	99.50	0.94
51	Cyanazine	-16.76	116.67	12.18	107.46	1.54	110.37	2.07	-25.01	116.98	10.13	110.05	4.40	113.26	1.59
52	Cyazofamid	-16.69	114.09	12.04	113.70	3.66	119.99	3.27	-26.89	152.21	17.13	112.87	7.35	116.46	2.64
53	Cycloate	-12.09	98.27	6.89	102.53	5.79	109.54	9.27	-16.49	59.51	27.60	113.98	7.77	116.97	1.76
54	Cycluron	-13.99	114.68	9.06	103.16	2.25	100.60	1.81	-47.44	96.55	6.76	116.15	3.72	101.97	0.59
55	Cyenopyrafen	-5.76	113.05	11.53	104.18	4.84	102.97	4.13	-14.12	152.33	10.49	112.34	5.49	111.97	3.40
56	Cyflufenamid	-16.02	140.82	11.77	110.44	5.44	114.35	1.73	-20.38	116.10	9.98	115.28	1.90	119.53	1.77
57	Cymiazole	-48.02	490.40	10.73	87.53	5.96	75.06	1.92	-72.01	9.10	36.89	72.07	9.31	77.21	3.14
58	Cymoxanil	-9.35	112.58	10.23	98.73	10.61	102.81	1.07	-19.84	110.81	8.78	112.64	8.96	108.97	5.58
59	Cyprazine	-29.05	182.12	9.02	103.95	2.02	96.53	0.97	-69.17	54.32	1.16	106.38	2.09	91.92	1.27
60	Cyproconazole	-48.33	118.67	13.30	111.59	3.45	111.05	2.66	-47.56	156.32	12.68	116.37	6.30	115.97	1.90
61	Cyprofuram	-9.99	114.69	7.01	117.69	3.40	113.09	2.38	-21.92	111.52	12.75	115.78	6.43	113.32	2.05
62	Daimuron	-14.51	114.84	11.36	114.80	4.07	102.29	0.69	-17.00	118.51	8.12	116.68	3.54	109.81	0.71
63	Demeton	-14.66	98.78	3.67	83.03	17.19	76.18	3.24	-42.71	71.55	19.91	81.97	19.24	100.07	16.82
64	Desethylterbuthylazine	-15.13	74.96	16.00	103.13	9.21	102.19	9.39	-28.26	99.41	8.31	98.30	4.50	82.44	1.89
65	Desmetryn	-21.46	101.48	10.82	79.74	3.88	74.67	0.67	-52.14	75.21	6.42	83.69	1.78	70.04	1.13
66	Diazinon	-21.23	110.31	14.65	114.74	3.86	110.78	2.23	-34.70	111.01	10.73	111.41	3.94	118.38	1.07
67	Dichlormid	-5.99	382.78	45.16	112.16	10.13	114.31	8.56	-41.19	40.55	46.24	117.54	11.53	106.18	7.59

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
68	Diclocymet	-44.26	70.84	19.41	109.64	9.81	115.36	15.43	-35.00	102.32	55.09	113.84	14.87	110.18	4.10
69	Diclosulam	-3.53	111.72	11.32	117.40	2.84	110.11	0.88	71.47	160.00	9.90	114.27	7.88	112.56	1.64
70	Diethyltoluamide	-15.07	116.24	7.38	117.42	4.04	108.77	1.68	-28.42	160.60	6.80	113.54	4.78	115.72	10.75
71	Difenoconazole	-20.74	102.09	9.04	91.70	3.44	89.41	1.65	-32.91	112.17	8.04	110.68	2.92	89.05	1.38
72	Difenoxyuron	-11.17	113.74	12.37	99.23	2.62	93.78	0.83	-28.43	117.46	5.37	118.95	2.49	96.42	0.68
73	Dimethachlor	-14.87	99.71	12.43	104.15	7.56	98.22	1.44	-27.50	160.65	13.02	117.89	2.40	107.80	0.86
74	Dimethenamid	-16.32	161.82	9.81	115.03	3.59	115.69	1.73	-55.79	117.71	11.16	106.45	4.01	117.75	3.02
75	Dimethomorph	-24.19	116.28	6.10	111.45	6.22	111.29	2.66	-7.03	160.68	16.92	116.81	6.00	115.35	3.47
76	Dimethylvinphos	-25.72	231.76	8.84	114.14	8.10	107.52	6.19	-56.34	91.71	39.25	175.10	10.42	108.41	9.82
77	Dimetilan	-63.50	110.81	10.81	111.04	6.81	108.02	2.20	-62.98	115.12	12.99	115.76	3.19	112.25	0.52
78	Diphenamid	-13.50	111.80	11.71	111.37	4.28	112.87	2.05	-19.59	160.71	7.89	117.38	5.65	115.86	4.94
79	Dipropetryn	-17.28	111.77	11.50	107.72	1.80	99.94	1.91	-26.72	119.32	14.56	115.88	5.01	104.52	2.34
80	Dipropyl Isocinchomeronate	-22.23	115.40	13.88	110.16	3.49	109.52	1.90	-33.29	161.61	8.38	117.53	2.18	113.61	0.78
81	Dithiopyr	-15.39	104.36	10.54	118.51	3.84	114.68	1.76	-67.72	161.62	7.23	113.52	3.31	117.83	1.27
82	Epoxiconazole	-20.73	118.79	10.36	90.20	2.25	82.81	1.33	-41.81	94.75	8.04	113.81	1.24	95.02	1.00
83	Esprocarb	-19.03	113.81	12.22	105.66	4.50	107.08	1.85	-69.71	118.52	9.55	116.49	5.08	103.78	1.83
84	Etaconazole	12.83	111.46	9.71	89.86	16.17	96.18	12.12	-12.30	113.59	5.16	113.11	2.47	101.72	12.75
85	Ethiofencarb-sulfone	-43.85	105.18	14.02	87.78	4.56	86.41	0.55	-56.45	163.05	14.32	117.74	3.92	87.55	0.80
86	Ethiofencarb-sulfoxide	-7.56	90.35	18.47	80.95	7.47	100.39	5.90	-25.66	117.18	12.73	89.78	10.84	95.64	5.24
87	Ethoprophos	-12.78	85.45	5.72	112.00	1.47	115.22	15.17	-49.41	74.34	12.97	74.14	3.04	89.16	17.38
88	ethychlozate	-17.61	134.43	12.26	107.50	3.41	95.14	1.07	-23.47	115.61	13.62	112.04	9.48	101.17	2.74
89	Etopenprox	-79.49	118.64	11.55	90.10	16.22	89.16	4.73	-88.57	111.05	13.53	110.07	16.37	88.19	5.15
90	Etoazole	-16.24	101.22	11.41	99.75	3.01	91.11	0.79	-25.61	119.82	19.66	118.02	9.51	102.88	0.42

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
91	Etrimfos	-15.62	114.54	15.50	94.64	2.64	95.47	1.73	-24.58	118.71	11.30	115.13	3.29	102.46	0.76
92	Famphur	30.27	174.38	10.28	107.22	3.65	110.29	1.07	-8.96	111.35	7.20	111.31	2.58	117.82	1.28
93	Fenamidone	-36.48	155.68	9.32	112.90	2.64	114.55	0.66	-59.39	116.66	4.34	116.98	2.80	110.92	0.77
94	Fenamiphos	-12.07	99.54	8.04	109.47	11.31	73.81	1.17	-29.95	99.46	13.30	90.71	18.54	72.15	8.12
95	Fenamiphos-sulfone	8.45	87.42	3.76	84.53	8.20	116.03	10.69	-26.35	75.50	8.75	105.48	10.73	85.46	12.05
96	Fenamiphos-sulfoxide	-5.92	104.35	5.75	114.57	10.55	76.14	8.96	-19.61	73.04	18.06	75.41	2.62	71.40	10.48
97	Fenfuram	-21.01	117.52	11.32	85.72	3.79	83.18	1.75	-50.26	92.56	10.96	109.90	4.17	93.06	3.29
98	Fenhexamid	-23.44	105.42	10.05	110.54	4.65	94.66	2.30	-28.45	101.37	7.35	116.76	3.19	93.09	1.63
99	Fenobucarb	90.83	115.96	13.14	89.81	16.07	81.96	16.55	49.25	113.65	5.27	113.29	2.53	92.43	17.12
100	Fenothiocarb	-18.03	115.63	9.65	105.62	7.26	109.50	2.79	-29.99	163.07	9.15	113.04	4.97	106.97	2.05
101	Fenoxycarb	-14.21	88.24	16.30	82.00	6.90	72.00	2.18	-23.32	164.03	12.48	94.47	7.61	78.08	2.15
102	Fenpiclonil	-32.52	238.58	16.76	107.04	10.73	107.13	1.50	-63.11	72.19	13.88	118.08	18.33	107.47	10.48
103	Fenpyrazamine	-4.11	142.04	10.81	116.83	4.93	109.04	2.45	-9.94	164.12	8.56	115.60	3.63	112.37	1.88
104	Fenuron	-54.48	101.50	7.32	118.70	6.89	103.15	2.94	-60.43	115.37	11.99	110.55	6.31	117.56	1.64
105	Ferimzone	-2.30	103.59	14.55	115.30	5.21	75.59	0.63	-10.54	98.93	5.60	84.18	5.16	84.48	5.20
106	Flamprop-isopropyl	-12.23	83.53	13.02	113.51	13.10	101.69	4.67	-6.55	165.71	10.48	101.06	4.18	113.56	3.61
107	Flonicamid	-18.25	116.78	11.38	110.73	5.14	106.08	2.04	-40.96	166.57	11.34	111.43	2.57	109.74	2.68
108	Florasulam	25.86	80.21	9.25	72.39	4.51	78.60	2.36	14.73	83.89	12.12	84.66	5.05	70.83	3.29
109	Fluacrypyrim	-18.49	112.13	10.89	119.86	2.29	110.89	1.17	-23.58	167.58	10.12	113.55	3.34	119.05	1.02
110	Fluazifop-butyl	-14.66	103.98	9.35	114.54	6.21	100.23	3.95	-26.18	168.21	24.21	116.05	11.95	111.18	2.73
111	Flufenacet	-9.27	109.05	11.22	105.99	3.59	110.85	1.45	-12.97	168.56	8.65	119.33	4.70	117.03	1.23
112	Flufenoxuron	-13.77	95.06	17.44	70.44	12.85	79.35	5.75	-32.00	50.46	16.32	113.97	7.85	75.59	5.18
113	Flufenpyr-ethyl	0.49	116.21	10.99	110.93	3.45	105.07	1.16	-13.80	169.13	11.69	115.87	2.06	110.64	3.13

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
114	Flufiprole	-18.75	156.34	10.84	110.30	5.26	115.79	2.21	-33.98	111.35	5.91	101.01	9.96	115.41	3.51
115	Flumetsulam	-13.16	101.58	12.09	114.68	5.04	101.40	3.09	-32.89	169.64	8.30	113.85	4.52	112.29	0.67
116	Flumiclorac-pentyl	-17.69	149.14	12.27	110.17	2.74	96.43	1.95	-50.16	96.16	8.80	110.31	4.84	103.76	2.27
117	Fluopyram	-18.54	119.79	11.74	113.76	3.39	101.47	0.95	-36.21	113.16	7.28	114.37	2.22	114.17	0.98
118	Fluoroglycofen-ethyl	-19.90	244.77	17.42	114.54	8.52	98.62	6.39	-75.45	74.22	14.52	118.66	16.40	112.31	7.28
119	Fluquinconazole	-44.60	114.15	8.00	114.22	7.91	101.31	6.81	-49.82	77.06	8.39	111.77	5.01	96.84	2.49
120	fluroxypyr-meptyl	-25.98	113.62	10.08	72.08	9.66	72.64	5.75	-56.11	77.54	13.65	114.05	12.68	76.97	6.53
121	Flurprimidol	-49.30	153.62	5.30	116.51	3.44	105.87	1.91	-78.37	75.57	7.30	118.39	4.75	110.31	1.50
122	Flusilazole	-19.66	166.39	8.37	114.81	3.39	104.42	0.85	-62.68	86.94	2.15	105.53	1.27	110.29	0.64
123	Flutolanil	-14.19	117.00	11.98	115.94	5.37	109.55	1.41	-35.95	113.32	9.82	111.81	4.91	113.32	1.40
124	Flutriafol	-20.79	156.19	5.48	117.78	3.70	101.83	1.02	-71.57	44.20	22.28	113.64	8.54	105.86	3.36
125	Fluxapyroxad	-13.03	142.69	9.52	96.41	4.17	85.74	1.80	-42.67	95.68	3.32	118.71	5.33	98.56	1.06
126	Fonofos	-10.99	116.45	2.86	86.32	2.85	111.11	14.72	-68.90	80.47	8.48	81.97	8.67	81.20	1.02
127	Fosthiazate	-17.61	104.94	13.80	103.42	2.13	106.22	2.80	-10.07	165.11	12.91	114.08	13.19	117.88	4.43
128	Furalaxyl	-13.36	110.06	11.94	111.47	1.82	110.79	1.35	-22.27	115.45	16.14	119.65	5.13	116.77	5.51
129	Furathiocarb	-10.52	174.67	11.93	107.56	3.43	98.63	1.13	-68.75	86.91	4.37	74.70	2.38	97.83	1.28
130	Furmecyclox	-15.31	114.58	10.98	106.31	4.44	100.89	1.48	-36.59	118.73	14.08	104.26	14.31	82.33	6.75
131	Griseofulvin	-4.84	110.43	12.00	114.95	2.55	109.33	1.50	-1.99	117.45	5.59	112.04	2.42	112.71	1.00
132	Haloxypop-2-ethoxyethyl	-13.79	118.79	8.79	108.95	4.23	104.87	1.68	-56.16	111.43	7.53	114.03	2.39	103.10	1.40
133	Hexazinone	-21.66	119.66	10.82	106.15	2.41	101.27	1.17	-33.61	118.13	7.49	117.73	3.56	109.82	1.52
134	Imazamethabenz-methyl	-20.09	118.02	10.84	111.55	3.52	101.82	0.85	-30.34	118.85	8.44	112.67	3.33	109.38	0.60
135	Imicyafos	-19.99	115.98	11.59	113.59	5.33	110.25	1.24	-26.40	170.37	8.05	110.37	5.57	118.83	1.21
136	Indanofan	-31.80	113.60	14.84	116.43	6.19	111.90	3.55	-40.24	86.15	72.29	118.98	10.37	105.55	2.16

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
137	Ipconazole	-17.07	117.08	13.41	92.65	4.91	84.70	9.48	-32.49	112.71	7.18	109.86	8.58	84.88	3.44
138	Isazofos	-4.91	107.45	7.11	95.71	1.52	114.89	6.54	-65.73	86.74	3.39	81.13	8.07	115.27	11.42
139	Isocarbamid	-55.03	138.28	16.54	113.12	5.44	116.57	1.67	-67.77	172.19	11.62	113.96	2.89	118.78	1.21
140	isocarbophos	-8.71	114.26	8.48	103.10	12.47	76.27	6.94	-39.31	73.47	13.68	71.09	0.96	95.68	14.42
141	Isofenphos-Methyl	-4.96	105.33	11.47	82.16	6.59	99.13	15.26	-23.65	103.32	7.29	79.23	0.67	81.31	1.24
142	Isomethiozin	-23.29	60.91	68.03	78.55	15.69	100.54	5.83	-27.71	75.45	68.56	90.69	11.79	104.32	9.65
143	Isoprothiolane	-23.26	111.74	9.63	111.11	6.16	113.55	2.32	-51.47	101.46	9.80	115.43	8.70	117.43	3.12
144	Isoproturon	-14.43	116.23	10.49	105.49	2.86	104.89	1.38	-30.49	116.72	5.68	111.65	2.32	110.03	0.74
145	Isoxadifen-ethyl	-8.25	114.86	14.18	110.33	6.13	111.61	2.10	-16.79	112.54	9.10	112.60	2.96	115.89	3.33
146	Karbutilate	-16.80	92.02	9.76	96.26	5.19	85.18	3.39	-28.07	173.14	13.48	113.84	5.54	94.69	1.52
147	Mefenacet	-21.43	85.86	8.61	79.60	2.86	75.79	1.36	-27.42	111.00	6.41	101.05	4.11	85.55	1.25
148	Mefenpyr-diethyl	-2.99	116.71	11.25	111.63	3.61	110.51	1.06	-11.64	173.59	9.27	115.68	3.06	113.72	0.75
149	Mepronil	-9.65	113.56	13.10	111.28	3.40	98.54	2.73	-28.90	118.98	8.81	116.32	2.62	109.64	0.91
150	Metalaxyl	-11.34	114.55	10.69	117.26	4.84	111.68	1.28	-22.44	175.41	9.38	108.14	4.43	113.81	1.69
151	Metamitron	-6.13	83.01	10.53	94.74	10.03	78.91	1.92	-45.56	116.07	13.07	118.33	14.60	94.82	1.33
152	Metazachlor	-17.21	118.80	9.71	104.45	5.78	104.36	1.38	-23.16	117.53	17.70	116.58	9.63	114.79	2.38
153	Metconazole	-18.36	118.37	9.44	87.73	2.82	84.00	0.97	-47.90	73.96	7.69	106.92	2.85	81.95	1.84
154	Methamidophos	-7.24	89.87	15.78	71.34	12.04	79.39	3.00	-26.40	95.22	7.44	80.14	7.28	110.76	13.28
155	Methfuroxam	-5.28	92.18	9.84	89.93	2.84	77.19	3.36	-29.39	108.04	13.94	97.59	18.49	72.74	9.66
156	Methoprotryne	-15.78	97.56	12.03	82.17	3.70	75.60	0.73	-33.95	83.15	12.51	80.40	3.85	71.36	1.00
157	Metobromuron	-14.92	116.99	12.43	100.10	3.69	99.40	2.41	-44.96	89.18	15.53	117.22	2.37	100.56	2.34
158	Metribuzin	-45.74	156.42	21.97	116.38	17.51	115.50	2.78	-76.75	105.62	12.74	111.38	11.07	110.70	7.97
159	Metsulfuron-Methyl	40.26	108.17	13.09	101.90	4.05	96.26	0.94	116.58	176.32	8.25	110.70	6.51	105.63	1.46

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
160	Monocrotophos	-8.86	92.87	1.78	80.86	1.82	81.86	14.66	-16.07	82.80	3.31	75.91	19.83	101.20	19.14
161	Monolinuron	-12.54	144.02	14.29	111.40	6.77	106.88	3.45	-58.74	74.38	26.49	112.39	12.21	104.06	3.63
162	Monuron	-26.91	96.67	9.25	103.26	4.41	91.97	1.09	-41.92	115.07	8.30	112.52	6.52	102.90	1.01
163	Myclobutanil	-25.40	111.61	9.69	107.81	4.91	113.23	1.45	-17.57	176.55	6.56	113.31	4.34	110.72	4.58
164	Neburon	-13.62	149.23	11.22	109.10	4.25	107.84	1.18	-13.58	176.73	9.63	114.82	9.16	117.17	1.77
165	Norflurazon	-14.22	102.75	9.45	87.14	3.67	81.98	0.98	-38.74	95.49	6.33	105.30	2.58	86.50	1.52
166	Noruron	-15.17	138.58	13.14	111.15	4.64	104.90	1.75	-24.81	176.90	10.19	113.14	4.67	107.94	0.60
167	Novaluron	-28.37	113.14	51.83	73.46	12.12	70.81	14.49	-36.72	45.02	78.13	114.34	15.49	77.18	7.40
168	Nuarimol	-39.64	145.20	7.18	113.99	2.22	104.01	1.58	-65.06	78.66	4.21	118.23	3.58	117.62	1.66
169	Ofurace	-9.83	117.65	10.15	119.19	3.54	112.21	2.06	-33.69	118.52	7.98	119.86	4.33	117.63	1.59
170	Orbencarb	-28.21	93.49	11.73	101.53	2.87	103.30	3.42	-34.37	177.98	12.47	114.31	7.99	106.32	1.77
171	oxadiazon	-29.63	238.81	14.65	97.13	7.25	97.55	7.53	-60.33	108.05	19.23	99.08	9.75	119.07	5.19
172	Oxadixyl	-14.41	160.84	16.46	115.14	18.35	110.48	1.44	-25.75	114.98	16.28	106.64	12.09	109.69	2.70
173	Oxasulfuron	79.18	84.49	10.51	77.34	8.15	76.88	2.91	7.61	94.00	11.64	114.02	12.89	75.11	6.02
174	Oxycarboxin	4.71	158.75	14.50	116.40	4.10	102.72	1.56	-35.67	111.67	17.94	110.87	10.12	119.21	3.52
175	oxydemeton-methyl	43.85	114.22	11.58	75.19	3.95	114.33	11.86	-10.81	97.26	45.70	82.28	10.93	78.97	19.08
176	Pebulate	-6.50	49.87	10.87	70.97	9.36	111.77	15.26	-11.32	96.06	51.53	90.87	12.59	115.44	5.46
177	Penconazole	-5.62	117.03	11.77	105.44	3.71	101.45	1.15	-40.31	98.86	6.20	112.49	1.96	102.96	1.08
178	Penflufen	-14.75	139.21	12.27	113.00	4.05	117.62	1.33	-22.84	179.87	11.73	118.02	4.02	113.66	0.72
179	Penoxsulam	35.14	80.33	15.45	74.21	4.50	72.94	1.44	94.79	112.96	13.31	83.17	6.96	78.72	1.31
180	Pentanochlor	-32.53	99.15	11.25	105.15	14.94	103.74	2.17	-24.00	119.24	6.95	116.74	4.41	104.14	1.00
181	Pethoxamid	-17.68	185.22	10.20	119.07	3.16	111.65	1.20	-45.50	113.81	8.37	110.59	2.36	117.61	1.72
182	Phorate-oxon-sulfone	-11.65	13.22	59.26	171.15	53.28	97.75	18.12	-45.37	169.71	57.55	117.19	17.17	113.69	13.96

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
183	Phorate-oxon-sulfoxide	-4.20	111.25	10.19	103.38	7.31	100.41	3.01	-33.33	100.19	12.44	115.26	14.03	105.99	7.78
184	Phorate-Sulfone	-2.36	116.92	12.67	109.92	18.60	112.73	1.91	-21.81	81.95	18.38	73.13	4.09	87.05	0.46
185	Phorate-Sulfoxide	-5.08	114.04	14.78	81.48	11.65	108.02	1.74	-67.90	108.01	11.09	103.98	13.58	115.21	5.52
186	Phosfolan	-4.29	118.34	10.56	101.55	14.43	96.24	6.27	-72.63	117.73	13.69	81.42	10.88	86.73	11.18
187	Phosfolan-Methyl	-9.12	108.93	8.46	116.04	17.15	70.84	13.91	108.16	79.78	14.91	100.33	6.96	108.93	4.35
188	Phosphamidon	-4.92	114.89	7.38	107.79	9.79	97.55	12.65	-32.28	80.68	2.11	76.41	3.53	106.82	1.52
189	Phoxim	-5.88	99.71	9.65	87.61	3.77	83.50	0.83	-32.10	106.65	8.07	98.29	2.18	84.58	1.37
190	Piperonyl Butoxide	-14.06	104.15	12.36	115.92	1.06	110.00	2.35	-40.78	184.92	14.03	117.73	6.67	115.08	1.38
191	Promecarb	-12.73	193.41	15.99	113.47	7.18	108.55	3.49	-63.29	14.01	69.84	76.11	19.10	112.63	3.04
192	Prometryn	-96.79	119.04	10.52	118.76	5.39	114.95	2.21	-97.73	188.36	13.68	119.54	7.57	115.20	4.88
193	Propachlor	-16.86	54.19	20.34	115.66	11.22	111.09	2.99	-31.25	179.91	6.37	114.15	3.66	119.85	2.26
194	Propazine	-15.94	110.69	9.21	108.11	9.96	102.86	2.04	-38.81	79.82	8.24	115.85	7.76	111.91	18.15
195	Propisochlor	-16.68	116.12	12.50	114.45	5.27	106.78	1.77	-26.27	180.21	11.17	113.46	4.38	118.73	0.50
196	Propyzamide	-17.27	111.68	12.79	117.34	7.71	109.49	2.97	-27.71	119.39	11.31	115.29	9.12	119.73	2.90
197	Prosulfocarb	-17.07	119.77	16.96	112.14	6.11	112.31	1.15	-21.65	112.36	16.43	115.81	6.29	110.76	6.71
198	Prosulfuron	32.72	109.57	14.76	71.09	6.48	77.04	1.41	-15.84	88.45	76.52	77.19	12.49	75.44	6.50
199	Prothiofos	-27.62	151.86	11.38	95.85	7.74	73.21	3.68	-33.57	49.00	64.26	91.82	18.83	85.48	5.26
200	Prothoate	-16.04	109.78	10.00	111.70	2.07	107.41	1.30	-25.76	180.88	12.34	115.94	3.63	114.23	1.60
201	Pyracarbolid	-25.26	107.81	10.19	119.31	2.47	99.33	2.51	-37.56	118.91	9.02	116.80	3.96	107.85	1.00
202	Pyraclostrobin	-7.36	71.33	4.12	74.32	6.68	72.01	3.87	-26.08	78.90	14.28	87.86	8.92	78.81	2.68
203	Pyraflufen-ethyl	-5.05	115.38	9.29	114.47	4.66	109.09	1.70	42.20	181.84	8.74	117.32	2.25	114.39	0.85
204	Pyrametostrobin	-14.80	83.86	11.11	79.18	4.25	74.86	0.94	-32.52	97.42	9.85	90.50	2.99	75.05	2.14
205	Pyrazosulfuron-ethyl	10.70	109.05	15.34	73.17	3.29	72.53	3.00	-35.55	72.89	11.06	79.44	5.61	70.97	2.63

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
206	Pyrazoxyfen	-3.28	102.34	11.14	100.47	3.09	81.99	1.89	-9.95	111.71	7.09	102.62	8.87	92.76	1.89
207	Pyributicarb	-19.94	112.16	11.23	111.67	4.04	109.76	1.17	-27.06	183.78	8.38	117.19	5.85	104.16	12.14
208	Pyridaphenthion	-14.88	101.95	14.60	107.82	14.31	109.58	3.51	-19.36	183.78	8.38	117.19	5.85	104.16	12.14
209	Pyrifthalid	-33.62	72.79	10.15	72.00	3.54	72.70	1.50	-40.13	109.57	8.59	87.98	3.35	70.76	0.82
210	Pyrimitate	-12.47	94.07	11.77	90.35	4.45	81.37	1.41	-20.58	113.11	10.94	109.00	3.49	92.75	1.61
211	Pyriproxyfen	-28.13	96.50	11.38	90.66	1.78	82.64	1.29	-43.99	77.18	6.62	116.17	2.88	86.51	1.12
212	Pyrisoxazole	-19.67	174.03	11.81	97.13	6.05	84.30	1.94	-37.10	71.64	15.88	99.31	8.61	92.86	3.50
213	Pyroquilon	-31.96	103.39	9.76	98.37	5.24	96.20	0.81	-46.97	112.07	10.39	117.35	4.79	105.29	0.95
214	Sebuthylazine-desethyl	-72.49	85.52	10.81	110.78	4.19	96.99	3.71	-79.40	114.37	15.64	107.99	7.72	104.76	5.63
215	Sedaxane	-17.00	70.67	19.88	88.07	13.22	78.88	2.22	-39.28	113.92	15.29	85.31	18.73	82.08	5.48
216	Siduron	140.07	113.09	10.36	112.82	4.97	111.24	1.57	-18.65	185.21	7.74	117.23	5.10	113.26	1.96
217	Silthiofam	-17.62	117.69	12.72	115.64	4.89	112.59	1.61	-18.73	190.48	7.61	111.23	2.72	111.02	1.53
218	Sulfometuron-Methyl	20.18	117.57	9.90	112.23	3.32	116.45	0.42	-0.29	202.16	10.23	118.72	3.17	113.00	0.53
219	Sulfotep	-7.47	116.44	6.78	88.47	4.51	107.81	7.02	-13.31	92.35	8.96	106.09	9.98	115.55	15.33
220	Sulprofos	-0.18	104.77	17.94	110.63	5.31	87.40	3.69	2.85	119.84	12.65	119.26	1.48	103.65	3.32
221	Tebuconazole	-4.17	114.93	17.19	108.32	3.71	113.31	2.94	-23.08	191.97	18.61	117.13	6.88	117.22	4.84
222	Tebuconazole	52.47	25.78	2.76	76.05	2.99	72.31	2.01	-7.38	202.50	4.91	90.17	2.16	85.41	1.37
223	Tebupirimfos	3.28	145.90	16.45	107.86	3.34	106.76	2.66	-13.86	97.76	15.89	119.93	6.14	102.75	5.70
224	Tebutam	-15.58	151.08	12.94	112.31	4.09	75.27	6.80	-48.71	110.49	10.45	112.13	3.69	116.69	1.34
225	Tebuthiuron	-49.27	118.37	8.18	104.10	2.03	96.64	1.97	-57.69	113.62	5.75	114.29	3.35	107.55	0.95
226	Temephos	-17.84	80.35	8.87	81.28	5.50	74.93	0.89	-28.08	110.21	6.12	110.43	2.89	87.00	2.34
227	Tepraloxymid	-19.33	112.87	14.64	75.75	7.79	87.39	5.15	-68.83	65.77	59.83	76.78	5.47	78.40	6.48
228	Terbucarb	41.66	115.90	9.22	118.43	4.12	111.10	2.36	1.12	194.57	9.68	116.66	5.96	112.72	0.99

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
229	Terbufos	-9.43	106.58	7.98	113.25	19.87	71.68	18.04	-34.51	80.03	15.37	103.64	16.24	80.15	16.49
230	Terbufos-Sulfone	-8.29	83.34	13.78	86.34	15.05	87.19	14.62	-44.52	80.83	18.35	115.60	0.45	79.91	11.79
231	Terbufos-Sulfoxide	-7.22	79.45	12.38	70.03	0.28	90.24	10.73	-28.81	116.47	0.23	102.79	3.11	108.12	11.02
232	Terbumeton	-17.31	116.30	15.60	100.41	3.96	100.41	1.10	-32.66	205.68	11.55	115.45	3.84	116.19	1.42
233	Terbuthylazine	-29.57	106.04	9.11	90.18	3.39	78.35	1.82	-48.91	107.74	12.97	93.14	10.37	73.62	10.50
234	Tetraconazole	-48.99	114.91	4.59	119.09	1.64	102.55	1.23	-57.82	119.99	4.50	114.05	1.76	115.00	0.96
235	Thenylchlor	-13.90	112.52	13.78	109.54	2.20	107.23	3.43	-23.61	90.67	6.96	113.63	7.40	114.15	2.24
236	Thiazafluron	-48.97	86.78	11.59	110.13	8.93	98.90	3.05	-58.88	113.57	11.39	113.57	7.73	109.38	2.50
237	Thiazopyr	6.12	72.63	12.91	72.39	9.32	73.24	2.03	-4.09	207.10	10.93	82.51	5.35	74.70	1.51
238	Thiobencarb	-27.17	181.36	7.71	116.99	2.75	111.85	3.65	-32.91	210.34	9.93	172.86	5.39	114.34	3.14
239	Thiodicarb	7.15	74.25	9.40	99.61	4.08	101.85	1.94	3.02	210.52	8.86	119.13	3.88	105.00	1.49
240	Thionazin	-13.75	75.25	16.00	103.73	2.65	96.24	2.56	-10.37	217.60	27.16	90.91	14.37	90.44	0.40
241	Tiocarbazil	-17.97	109.65	15.78	99.55	4.70	119.38	2.64	-53.86	233.15	19.35	114.35	11.99	117.95	4.73
242	Tolclofos-methyl	-19.06	117.03	11.24	99.46	13.41	87.58	4.43	-25.49	92.06	13.89	97.67	15.73	99.94	3.92
243	Tolfenpyrad	-9.59	82.92	12.75	70.13	3.57	76.14	1.42	-29.71	111.28	9.66	98.18	3.95	71.45	1.49
244	Triadimefon	-6.00	134.93	10.25	118.52	2.40	118.81	1.49	-69.50	199.33	48.95	117.51	8.59	112.09	1.84
245	Triadimenol	-6.50	97.19	8.92	97.06	2.21	110.13	2.01	-25.72	102.56	18.72	114.08	4.69	108.54	0.95
246	Triamiphos	-15.89	105.23	13.33	95.92	3.58	92.03	0.78	-32.78	117.92	5.67	103.92	3.96	94.76	0.96
247	Triasulfuron	166.50	111.25	10.89	101.37	4.21	89.81	1.47	133.77	113.06	9.08	100.81	5.49	85.66	1.30
248	Triazophos	-13.36	114.36	30.55	114.91	15.00	104.59	17.45	120.72	79.07	27.40	166.19	9.40	101.86	11.83
249	Tribufos	-19.67	109.65	14.07	98.62	2.31	92.49	0.96	-36.16	119.41	6.38	115.18	2.27	103.19	1.58
250	Trietazine	-16.06	110.24	12.45	95.30	3.20	91.36	1.15	-50.46	98.40	7.55	114.78	1.56	89.44	1.14
251	Trifloxystrobin	-14.49	117.03	15.12	119.61	10.14	104.02	6.34	-25.51	283.40	31.30	92.77	17.58	112.28	7.80

No.	Pesticides	Radix codonopsis							Angelica sinensis						
		ME	5 µg/L		10 µg/L		50 µg/L		ME	5 µg/L		10 µg/L		50 µg/L	
			REC	RSD	REC	RSD	REC	RSD		REC	RSD	REC	RSD	REC	RSD
252	Triflumizole	-23.80	105.42	9.80	112.01	3.62	97.74	1.31	-30.79	117.68	10.94	111.21	3.93	98.78	2.12
253	Triticonazole	-20.18	99.38	10.34	105.07	2.99	93.99	1.65	-43.58	117.88	13.87	115.01	12.89	91.28	6.37
254	Uniconazole	-39.64	149.06	6.30	107.82	2.58	98.18	2.11	-66.34	86.01	5.50	112.08	2.41	95.20	1.26
255	Zoxamide	-16.69	79.46	14.48	117.44	11.44	108.55	3.37	-0.63	338.45	17.53	109.04	7.88	108.02	2.79