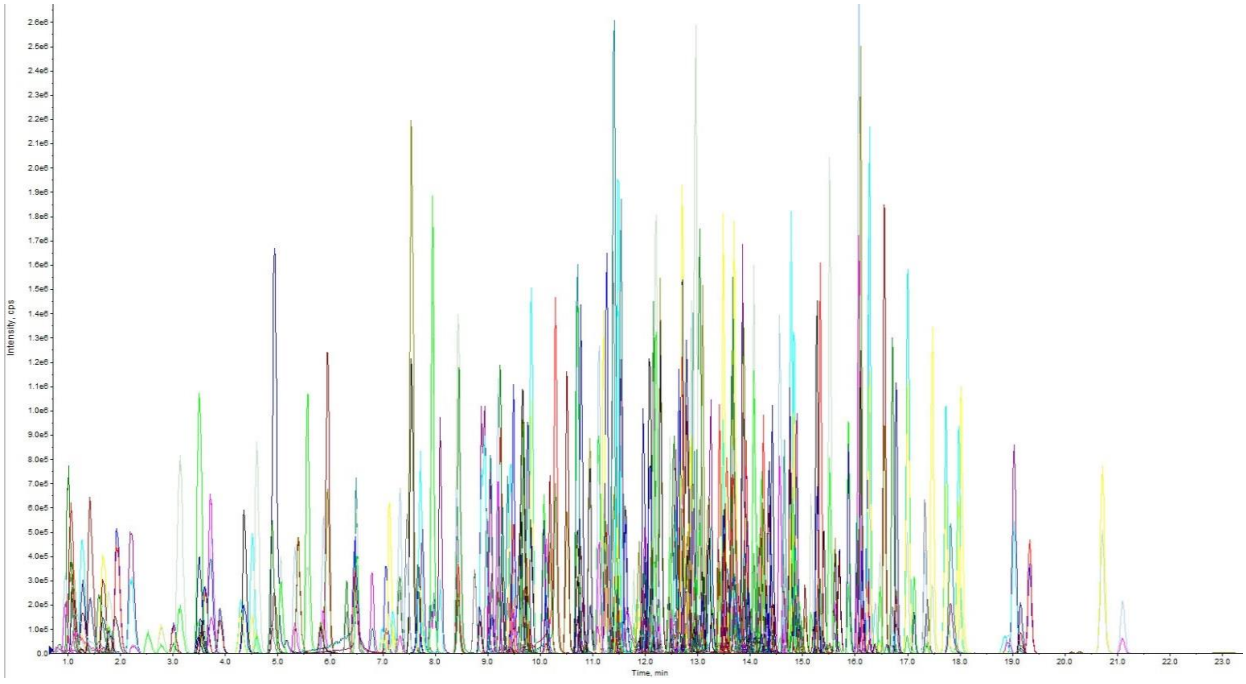
Chromatography Solutions

Application note #3120

300 Pesticides by LC-MS/MS



Avantor® ACE®

Method Details

CONDITIONS

Column: Avantor® ACE® UltraCore 2.5 SuperC18

Dimensions: 100 x 2.1 mm

Mobile Phases: A: 5 mM ammonium formate in H_2O/MeOH (9:1 v/v)

B: 5 mM ammonium formate in H_2O/MeOH (1:9 v/v)

Gradient:

Time (mins)	% B
0.0	30
0.5	30
15.0	100
22.0	100
22.1	30
27.0	30

Flow Rate: 0.3 mL/min

Injection: 6 µL

Temperature: 24 °C

Detection: AB SCIEX 4000 QTRAP

TurbolonSpray ESI positive mode

Capillary voltage: 5000 V

Heater gas temperature: 450 °C

Sample: Sample prepared using QuEChERs methodology.

Method validated using cucumber matrix spiked at 0.01 mg/kg.

265 analytes successfully validated (analytes in blue).

ORDERING TABLE

Product	Details	Size	Part Number
Avantor® ACE® UltraCore 2.5 SuperC18	HPLC Column	100 x 2.1 mm	CORE-25A-1002U

ANALYTES

Analyte	t_R/mins	MRM Transitions (m/z)
3-Hydroxycarbofuran	3.5	238.1 → 163.1, 238.1 → 181.1
Acephate.	1.0	184.1 → 142.9, 184.1 → 124.8
Acetamiprid	3.6	223.2 → 126.1, 225.2 → 128.1
Aclonifen	13.9	265.0 → 248.0, 267.0 → 250.0
Alachlor	12.9	270.2 → 238.2, 270.2 → 162.1
Aldicarb	5.4	208.0 → 89.0, 208.0 → 116.0
Aldicarb sulfone	1.2	240.0 → 86.0, 223.0 → 148.0
Aldicarb sulfoxide	1.1	207.0 → 132.0, 207.2 → 88.9
Ametryn	11.1	228.2 → 186.1, 228.2 → 68.0
Aminopyralid	0.8	207.0 → 160.9, 207.0 → 133.9
Amitrole	0.8	85.1 → 58.1, 85.1 → 57.1
Atrazine	9.3	216.2 → 174.0, 218.1 → 176.1
Atrazine-desethyl	4.4	188.2 → 146.0, 190.1 → 148.0
Atrazine-desisopropyl	2.4	174.1 → 104.1, 174.1 → 132.1
Avermectin B1a	18.2	876.5 → 553.0, 876.5 → 291.0
Avermectin B1b	19.1	890.5 → 305.0, 890.5 → 567.0
Azamethiphos	6.9	325.0 → 183.0, 325.0 → 138.9
Azinphos-ethyl	13.0	346.0 → 132.1, 346.0 → 160.1
Azinphos-methyl	10.9	318.1 → 132.1, 318.1 → 260.8
Aziprotryne	11.8	226.0 → 156.0, 226.0 → 125.0
Azoxystrobin	11.4	404.2 → 372.3, 404.2 → 344.1
Benalaxyl	14.0	326.2 → 148.1, 326.2 → 294.1
Benfuracarb	15.7	411.2 → 252.1, 411.2 → 195.1
Benthiavalicarb-isopropyl	12.0	382.3 → 116.0, 382.3 → 197.0
Bifenazate	12.5	301.2 → 198.1, 301.2 → 170.2
Bifenox	14.9	359.0 → 342.0, 359.0 → 310.0
Bifenthrin	21.0	440.0 → 181.1, 440.0 → 166.1
Bitertanol	14.6	338.2 → 269.0, 338.2 → 99.1
Bixafen	13.6	414.0 → 393.9, 416.1 → 395.9
Boscalid	11.7	343.1 → 306.8, 343.1 → 139.9
Bromfenvinfos-ethyl	14.3	405.0 → 155.0, 403.0 → 155.0
Bromuconazole A	12.2	378.0 → 159.1, 378.0 → 161.0

Analyte	t_R/mins	MRM Transitions (m/z)
Bromuconazole B	13.5	378.1 → 159.1, 378.1 → 161.0
Bupirimate	13.5	317.2 → 166.2, 317.2 → 107.9
Buprofezin	16.1	306.3 → 201.1, 306.3 → 116.1
Cadusafos	14.8	271.1 → 158.9, 271.1 → 214.9
Carbaryl	8.3	202.2 → 145.1, 202.2 → 127.1
Carbendazim	4.7	192.2 → 160.1, 192.0 → 132.0
Carbofuran	7.4	222.2 → 165.1, 222.2 → 122.9
Carbosulfan	19.3	381.2 → 160.1, 381.2 → 118.1
Carboxin	8.3	236.1 → 143.1, 236.1 → 87.0
Carfentrazone-ethyl	13.8	412.2 → 345.9, 412.2 → 383.9
Chlorantraniliprole	10.7	484.0 → 452.9, 484.0 → 285.9
Chlorbromuron	11.7	295.1 → 205.9, 293.1 → 182.0
Chlorfenvinfos A	14.3	359.0 → 155.0, 358.9 → 99.0
Chloridazon	3.7	222.1 → 104.0, 222.1 → 77.1
Chlorpyrifos	16.8	349.9 → 198.1, 349.9 → 115.0
Chlorpyrifos-methyl	15.2	322.0 → 124.9, 324.0 → 125.1
Chlortoluron	9.1	213.2 → 72.0, 215.1 → 72.1
Cinidon-ethyl	16.3	394.0 → 348.0, 394.0 → 366.0
Clethodim A	12.8	360.1 → 164.1, 360.1 → 268.1
Clethodim B	10.2	360.1 → 164.1, 360.1 → 268.1
Clofentezine	15.1	303.1 → 137.9, 305.1 → 102.0
Clomazone	10.7	240.1 → 124.9, 242.2 → 127.1
Cloquintocet-mexyl	16.1	336.2 → 238.0, 336.2 → 192.1
Clothianidin	2.9	250.1 → 169.0, 250.1 → 132.0
Coumaphos	14.3	363.0 → 227.0, 363.0 → 211.1
Cyanazine	6.7	241.1 → 214.1, 243.1 → 216.1
Cyazofamid	13.2	325.2 → 107.9, 327.2 → 107.9
Cycloate	14.9	216.2 → 83.1, 216.2 → 154.1
Cycloxydim A	13.1	326.3 → 280.0, 326.3 → 180
Cycloxydim B	8.4	326.3 → 280.0, 326.3 → 180
Cymoxanil	4.2	199.2 → 128.0, 199.2 → 111.1
Cyproconazole A	12.5	292.0 → 70.0, 292.0 → 125.0

Analyte	t_R/mins	MRM Transitions (m/z)
Cyproconazole B	12.0	292.0 → 70.0, 292.0 → 125.0
Cyprodinil A	14.1	226.2 → 93.0, 226.2 → 77.0
Demeton-S-methyl	7.7	231.1 → 88.8, 231.1 → 61.0
Demeton-S-methyl sulfone	1.6	263.0 → 168.9, 263.0 → 120.8
Desmedipham	10.6	318.1 → 182.1, 318.1 → 136.0
Desmethyl-pirimicarb	5.8	225.2 → 72.0, 225.2 → 168.1
Diafenthiuron	17.4	385.2 → 329.2, 385.2 → 278.2
Diazinon	14.2	305.1 → 169.1, 305.1 → 97.0
Dichlofluanid	12.8	333.0 → 223.9, 333.0 → 122.9
Diclobutrazol A	13.7	328.0 → 70.0, 330.0 → 70.0
Dicrotofos	2.1	238.1 → 112.1, 238.1 → 193.1
Diethofencarb	11.1	268.1 → 226.1, 268.1 → 124.0
Difenoconazole	14.8	406.1 → 251.1, 408.2 → 253.1
Diflubenzuron	13.5	311.0 → 158.2, 311.0 → 141.1
Diflufenican	15.4	395.0 → 266.0, 395.0 → 246.0
Dimethachlor	10.2	256.2 → 224.0, 256.2 → 148.1
Dimethenamid	11.3	276.1 → 244.0, 278.1 → 246.0
Dimethoate	3.6	230.1 → 198.8, 230.1 → 124.9
Dimethomorph	11.7	388.1 → 301.0, 388.1 → 165.1
Dimoxystrobin	13.7	327.1 → 205.0, 327.1 → 116.0
Diniconazole	14.8	326.0 → 70.0, 328.0 → 70.0
Disulfoton	15.0	275.1 → 89.0, 275.1 → 61.0
Disulfoton sulfone	9.6	307.1 → 153.0, 307.1 → 171.0
Disulfoton sulfoxide	9.2	291.1 → 212.9, 291.1 → 185.0
Ditalimfos	13.1	300.1 → 148.0, 300.1 → 130.0
Diuron	10.0	233.1 → 71.9, 235.1 → 72.0
DMST	8.0	215.2 → 106.0, 215.2 → 78.9
Dodine	13.6	228.3 → 57.0, 228.3 → 60.1
Epoxiconazole	12.9	330.1 → 120.9, 330.1 → 75.2
Ethion	16.5	385.0 → 199.0, 385.0 → 143.0
Ethirimol	9.7	210.3 → 140.1, 210.3 → 98.0
Ethofumesate	11.3	287.1 → 121.0, 287.1 → 259.0

Analyte	t_R/mins	MRM Transitions (m/z)
Ethoprofos	12.7	243.0 → 131.0, 243.0 → 97.0
Ethoxyquin A	12.9	218.2 → 148.0, 218.2 → 174.1
Ethoxyquin B	10.7	218.2 → 148.0, 218.2 → 174.1
Etofenprox	20.6	394.0 → 177.0, 394.0 → 359.0
Etrimfos	14.2	293.1 → 125.0, 293.1 → 265.1
Famoxadone NH_4^+	14.4	392.0 → 331.0, 392.0 → 238.0
Fenamidone	11.5	312.1 → 92.1, 312.1 → 236.1
Fenamifos	13.4	304.0 → 217.0, 304.0 → 202.0
Fenamifos sulfone	8.4	336.0 → 308.0, 336.0 → 266.0
Fenamifos sulfoxide	7.9	320.0 → 171.0, 320.0 → 233.0
Fenarimol	12.7	331.2 → 268.0, 331.2 → 139.0
Fenazaquin	18.0	307.1 → 161.1, 307.1 → 147.0
Fenbuconazole	13.2	337.0 → 124.9, 337.0 → 70.0
Fenbutatin oxide	22.9	519.3 → 463.3, 519.3 → 197.0
Fenhexamid	12.6	302.2 → 96.9, 304.2 → 97.0
Fenoxycarb	13.6	302.2 → 87.9, 302.2 → 116.0
Fenpropathrin	17.3	367.0 → 125.0, 350.0 → 125.0
Fenpropidin	10.8	274.0 → 147.0, 274.0 → 117.0
Fenpropimorph	18.7	304.0 → 147.0, 304.0 → 117.0
Fenpyroximate	17.4	422.2 → 366.1, 422.2 → 135.1
Fensulfothion	10.0	309.1 → 280.8, 309.1 → 252.9
Fensulfothion sulfone	10.4	325.1 → 268.9, 325.1 → 297.0
Fenthion sulfone	9.0	311.1 → 125.0, 311.1 → 278.8
Fenthion sulfoxide	8.4	295.1 → 279.7, 295.1 → 108.9
Flonicamid	1.7	230.0 → 203.0, 230.0 → 148.0
Flubendiamide NH_4^+	13.8	700.0 → 407.9, 682.9 → 407.9
Fludioxonil NH_4^+	11.8	266.0 → 229.0, 266.0 → 227.1
Flufenacet	12.8	364.1 → 194.1, 364.1 → 152.2
Flufenoxuron	17.1	489.0 → 158.0, 489.0 → 141.1
Flumethrin NH_4^+	20.2	527.2 → 510.0, 527.2 → 267.0
Flumetsulam	2.0	326.2 → 128.8, 326.2 → 128.3
Flumioxazin	10.7	355.0 → 327.0, 355.0 → 299.0

Analyte	t_R/mins	MRM Transitions (m/z)
Fluometuron	8.9	233.0 → 72.0, 233.0 → 160.0
Fluopicolide	11.9	383.0 → 173.0, 385.1 → 174.9
Fluopiram	12.5	397.0 → 173.0, 397.0 → 208.0
Fluoxastrobin	12.8	459.1 → 427.1, 459.1 → 188.1
Fluquinconazole	12.6	376.1 → 307.1, 376.1 → 349.1
Flusilazole	13.3	316.2 → 247.0, 316.2 → 165.1
Flutolanil	12.0	324.0 → 262.0, 324.0 → 242.0
Flutriafol	9.7	302.1 → 70.1, 302.1 → 123.0
Fomesafen (NH4-Adduct)	11.3	456.1 → 344.0, 458.1 → 346.0
Fonofos	14.3	247.0 → 109.0, 247.0 → 127.0
Fosthiazate	8.9	284.1 → 227.9, 284.1 → 104.0
Fuberidazole	6.9	185.0 → 157.0, 185.0 → 65.0
Furathiocarb	15.9	383.1 → 195.0, 383.1 → 252.1
Heptenofos	10.1	251.0 → 127.0, 251.0 → 124.8
Hexaconazole	14.3	314.0 → 70.0, 316.0 → 70.0
Hexaflumuron	15.5	461.1 → 158.2, 461.1 → 141.1
Hexazinone	7.3	253.2 → 71.0, 253.2 → 85.0
Hexythiazox	16.6	353.0 → 168.0, 353.0 → 228.0
Imazalil	13.6	297.2 → 159.1, 299.1 → 160.9
Imidacloprid	2.7	256.1 → 209.0, 256.1 → 175.0
Indoxacarb	15.2	528.1 → 248.9, 528.1 → 292.9
Ipconazole	15.3	334.2 → 70.0, 334.2 → 125.0
Iprodione	13.3	332.1 → 246.9, 330.0 → 245.0
Iprovalicarb	12.6	321.3 → 119.0, 321.3 → 203.1
Isofenfos	14.7	346.1 → 245.1, 346.1 → 217.1
Isofenfos-methyl	13.8	332.1 → 231.0, 332.1 → 273.0
Isoprocarb	9.4	194.1 → 95.0, 194.1 → 137.0
Isoprothiolane	12.1	291.1 → 231.0, 291.1 → 189.0
Isoproturon	9.7	207.2 → 72.0, 207.2 → 165.2
Isoxadifen-ethyl	13.9	313.2 → 296.1, 313.2 → 263.0
Isoxaflutole	10.0	360.1 → 251.1, 377.0 → 251.0
Kresoxim-methyl	13.9	314.0 → 116.0, 314.0 → 131.1

Analyte	t_R/mins	MRM Transitions (m/z)
Lenacil	9.5	235.3 → 153.2, 235.3 → 136.2
Linuron	11.3	249.0 → 159.9, 249.0 → 182.0
Lufenuron	16.4	511.0 → 158.0, 511.0 → 141.0
Malaoxon	7.9	315.1 → 99.1, 315.1 → 127.1
Mandipropamid	11.9	412.1 → 328.1, 412.2 → 125.0
Mecarbam	13.0	330.1 → 227.0, 330.1 → 198.9
Mepanipyrim	12.9	224.2 → 106.0, 224.2 → 77.1
Mepronil	12.1	270.1 → 119.0, 270.1 → 228.1
Mesotrione	1.2	340.0 → 228.0, 357.1 → 227.9
Metaflumizone	16.1	507.1 → 178.1, 507.1 → 287.1
Metalaxyl	9.8	280.1 → 220.2, 280.1 → 192.2
Metamitron	3.4	203.1 → 175.0, 203.1 → 104.2
Metazachlor	9.6	278.1 → 209.9, 278.1 → 134.2
Metconazole	14.4	320.1 → 70.0, 320.1 → 125.0
Methacrifos	10.7	241.0 → 208.9, 241.0 → 124.9
Methamidofos	0.9	142.0 → 93.9, 142.0 → 112.1
Methiocarb	11.4	226.2 → 169.1, 226.2 → 121.2
Methiocarb sulfone	4.1	258.1 → 122.0, 258.1 → 200.9
Methiocarb sulfoxide	3.0	242.1 → 185.0, 242.1 → 122.1
Methomyl	1.6	163.0 → 106.0, 163.0 → 88.0
Methoxyfenozide	12.2	369.1 → 149.1, 369.1 → 313.2
Metobromuron	9.4	259.0 → 170.0, 259.0 → 148.1
Metolachlor	13.0	284.1 → 252.0, 286.1 → 254.0
Metoxuron	5.7	229.1 → 72.0, 231.1 → 71.9
Metrafenone	14.8	409.2 → 209.1, 411.2 → 209.1
Metribuzin	7.1	215.2 → 187.1, 215.2 → 84.1
Mevinfos A	4.9	225.0 → 193.0, 225.0 → 127.0
Mevinfos B	3.4	225.0 → 193.0, 225.0 → 127.0
Molinate	12.0	188.2 → 126.2, 188.2 → 55.1
Monocrotofos	1.8	224.2 → 192.9, 224.2 → 126.9
Monolinuron	8.7	215.1 → 126.1, 215.1 → 148.1
Myclobutanil	12.2	289.2 → 70.0, 289.2 → 125.0

Analyte	t_R/mins	MRM Transitions (m/z)
Napropamide	12.9	272.2 → 129.1, 272.2 → 171.1
Nitenpyram	1.3	271.1 → 189.2, 271.1 → 126.0
Novaluron	15.6	493.0 → 158.1, 493.0 → 141.1
Nuarimol	11.2	315.0 → 252.0, 315.0 → 81.0
Ofurace	7.6	282.0 → 160.1, 282.0 → 236.3
Omethoate	1.0	214.0 → 183.0, 214.0 → 125.0
Oxadiazon	16.2	345.0 → 220.0, 345.0 → 303.0
Oxadixyl	6.4	279.0 → 219.0, 279.0 → 133.0
Oxamyl NH4+	1.2	237.1 → 72.0, 220.2 → 72.0
Oxycarboxin	4.5	268.1 → 174.9, 268.1 → 147.0
Oxydemeton-methyl	1.4	247.0 → 108.9, 247.0 → 168.9
Paclobutrazol	11.8	294.0 → 70.0, 294.0 → 125.0
Paraoxon	9.4	275.9 → 219.9, 275.9 → 248.0
Paraoxon-methyl	6.1	248.1 → 202.1, 248.1 → 90.0
Parathion	13.8	292.0 → 236.0, 292.0 → 264.1
Penconazole	13.7	248.1 → 70.0, 284.1 → 159.0
Pencycuron	14.8	329.3 → 125.1, 331.3 → 127.0
Pendimethalin	16.9	282.2 → 212.1, 282.2 → 194.1
Pethoxamid	12.7	296.2 → 131.0, 296.2 → 250.0
Phenmedipham	10.8	301.2 → 168.0, 301.2 → 136.0
Phenthoate	13.9	321.0 → 247.0, 321.0 → 275.1
Phorate sulfone	9.6	293.0 → 170.8, 293.0 → 96.7
Phorate sulfoxide	9.2	277.0 → 199.0, 277.0 → 171.0
Phosalone	14.6	368.0 → 182.0, 369.9 → 183.9
Phosphamidon	6.4	300.2 → 127.1, 300.2 → 226.8
Phoxim	14.7	299.2 → 129.2, 299.2 → 77.1
Picloram	1.2	243.0 → 224.9, 241.0 → 222.9
Picolinafen	16.2	377.1 → 238.0, 377.1 → 359.0
Picoxystrobin	13.6	368.0 → 205.0, 368.0 → 145.0
Piperonyl butoxide	16.2	356.2 → 177.2, 356.2 → 119.0
Pirimicarb	9.0	239.2 → 72.0, 239.2 → 182.3
Pirimiphos-ethyl	16.3	334.1 → 198.0, 334.1 → 182.3
Pirimiphos-methyl	14.8	306.2 → 108.0, 306.2 → 164.3
Prochloraz	14.4	376.0 → 308.0, 376.0 → 70.0
Profenofos	15.6	375.0 → 304.9, 373.0 → 302.9
Prometryn	12.6	242.2 → 158.1, 242.2 → 200.0
Propachlor	9.6	212.0 → 170.0, 212.0 → 94.1
Propamocarb	1.1	189.0 → 102.0, 189.0 → 144.0
Propaquizafop	16.0	444.2 → 100.0, 444.2 → 371.0
Propargite NH4+	17.0	368.2 → 231.1, 368.2 → 175.0
Propazine	11.0	230.2 → 188.1, 230.2 → 146.1
Propetamfos	12.4	282.1 → 138.0, 282.1 → 156.1
Propham	9.4	180.1 → 138.1, 180.1 → 120.1
Propiconazole	14.0	342.1 → 159.0, 342.1 → 69.0
Propisochlor	14.0	284.2 → 224.0, 284.2 → 148.0
Propoxur	7.2	210.1 → 111.1, 210.1 → 168.0
Propyzamide	11.9	256.1 → 190.0, 256.1 → 173.0
Proquinazid	17.7	373.2 → 330.9, 373.2 → 289.0
Prosulfocarb	15.5	252.2 → 91.0, 252.2 → 128.1
Prosulfuron	9.0	420.1 → 141.0, 420.1 → 167.1
Prothioconazole	14.1	344.1 → 326.0, 346.1 → 328.1
Prothioconazole-desthio	13.0	312.0 → 70.0, 312.0 → 125.0
Pymetrozine	1.5	218.0 → 105.0, 218.0 → 78.0
Pyraclostrobin	14.5	388.1 → 194.0, 388.1 → 163.0
Pyrazophos	14.8	374.0 → 222.0, 374.0 → 194.0
Pyridaben	18.0	365.0 → 309.0, 365.0 → 147.0
Pyridapenthion	12.4	341.0 → 189.0, 341.0 → 205.0
Pyridate	19.1	379.1 → 206.9, 379.1 → 350.9
Pyrifenox	13.0	295.1 → 93.0, 297.1 → 93.0
Pyrimethanil	11.3	200.0 → 82.0, 200.0 → 107.0
Pyriproxyfen	16.7	322.0 → 96.0, 322.0 → 185.0
Pyroxsulam	5.6	435.0 → 195.1, 435.0 → 194.0
Quinalfos	13.9	299.0 → 271.0, 299.0 → 243.0
Quinoclamine	6.8	208.0 → 105.0, 208.0 → 77.0

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Analyte	t_R/mins	MRM Transitions (m/z)
Quinoxyfen	16.4	308.0 → 197.0, 308.0 → 162.0
Rotenone	13.4	395.1 → 213.1, 395.1 → 192.0
Secbumeton	10.6	226.2 → 170.1, 226.2 → 100.0
Silthiofam	13.5	268.0 → 252.0, 268.0 → 73.0
Simazine	7.2	202.02 → 132.1, 202.2 → 104.0
Simetryn	9.4	214.1 → 124.1, 214.1 → 144.0
Spinosyn A	17.3	732.5 → 142.0, 732.5 → 98.0
Spinosyn D	18.3	746.5 → 142.0, 746.5 → 98.0
Spirodiclofen	17.4	313.1 → 295.0, 313.1 → 213.0
Spiromesifen	16.8	371.2 → 273.1, 371.2 → 255.2
Spirotetramat	12.8	374.2 → 302.2, 374.2 → 330.2
Spiroxamine	13.3	298.3 → 100.1, 298.3 → 144.1
Sulfotep	14.0	323.0 → 97.0, 323.0 → 115.0
Tau-fluvalinate	18.9	503.0 → 208.0, 503.0 → 181.0
Tebuconazole	13.9	308.1 → 70.0, 308.1 → 125.0
Tebufenozide	13.5	353.2 → 297.2, 353.2 → 133.0
Tebufenpyrad	15.9	334.0 → 145.0, 334.0 → 117.0
Teflubenzuron	16.3	381.1 → 158.2, 381.1 → 141.2
Tembotrione (NH_4 adduct)	5.9	458.0 → 340.9, 458.0 → 441.0
Terbufos	16.1	289.1 → 103.1, 289.1 → 232.9
Terbufos sulfone	11.1	321.1 → 171.0, 321.1 → 115.0
Terbufos sulfoxide	11.0	305.1 → 187.2, 305.1 → 131.1
Terbumeton	11.3	226.2 → 170.1, 226.2 → 142.0
Terbuthylazine	11.4	230.2 → 174.0, 232.2 → 176.0
Terbutryn	12.9	242.1 → 186.1, 242.1 → 96.0

Analyte	t_R/mins	MRM Transitions (m/z)
Tetrachlorvinfos	13.5	367.0 → 127.0, 365.0 → 127.0
Tetraconazole	12.9	372.0 → 159.0, 374.0 → 161.2
Thiabendazole	6.2	202.1 → 174.9, 202.1 → 131.0
Thiacloprid	4.7	253.1 → 126.1, 253.1 → 99.1
Thiencarbazone-methyl	2.3	391.0 → 130.0, 391.0 → 230.0
Thiodicarb	9.2	355.0 → 88.0, 355.0 → 108.0
Thiophanate-methyl	7.6	343.0 → 151.1, 343.0 → 311.0
Thiamethoxam	1.7	292.0 → 211.0, 292.0 → 181.0
Tolclophos-methyl	14.9	301.2 → 268.9, 303.1 → 270.9
Tolylfluanid	13.9	347.0 → 237.8, 347.0 → 137.1
Topramezone	1.6	364.1 → 334.1, 364.1 → 125.0
Triadimefon	12.1	294.2 → 197.2, 294.2 → 225.0
Triadimenol	12.4	296.2 → 70.0, 298.2 → 70.0
Triallate	16.7	304.1 → 142.9, 304.1 → 86.2
Triazofos	12.6	314.0 → 162.0, 314.2 → 119.0
Trichlorfon	3.4	257.0 → 108.9, 257.0 → 220.8
Tricyclazole	5.2	190.1 → 136.1, 190.1 → 163.0
Trifloxystrobin	15.3	409.0 → 186.0, 409.0 → 206.0
Triflumizole	15.3	346.0 → 278.0, 346.0 → 73.0
Triflumuron	14.6	359.1 → 156.2, 359.1 → 139.0
Triforin	10.6	435.0 → 390.0, 437.0 → 392.0
Triticonazole A	12.7	318.0 → 70.0, 318.0 → 125.0
Triticonazole B	10.9	318.0 → 70.0, 318.0 → 125.0
Vamidothion	3.4	288.1 → 146.0, 288.1 → 118.0
Zoxamide	14.2	336.0 → 187.0, 338.0 → 189.0