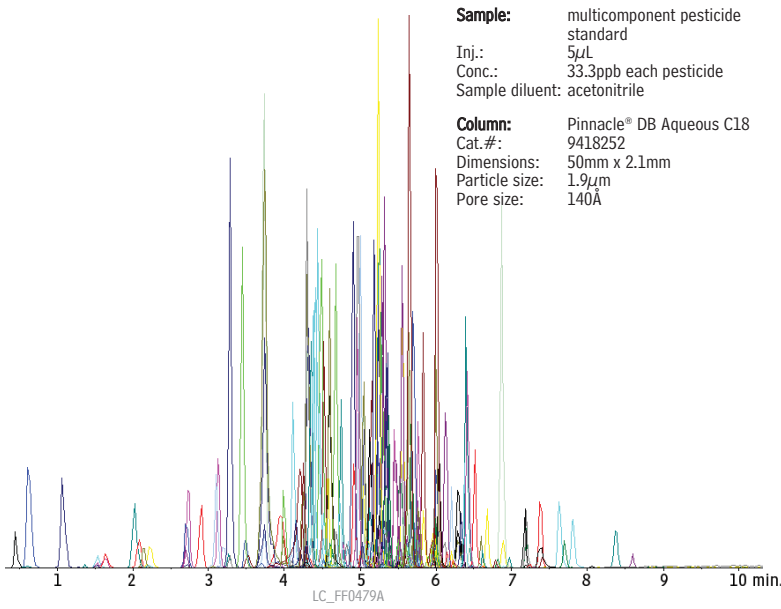


Pesticides on Pinnacle® DB Aqueous C18 (ESI+)



Sample: multicomponent pesticide standard
Inj.: 5µL
Conc.: 33.3ppb each pesticide
Sample diluent: acetonitrile

Column: Pinnacle® DB Aqueous C18
Cat.#: 9418252
Dimensions: 50mm x 2.1mm
Particle size: 1.9µm
Pore size: 140Å

Conditions:
Mobile Phase: A: 10mM NH₄OAc in water
 B: 10mM NH₄OAc in methanol

Flow: 600µL/min.
Temp.: 35°C
Instrument: Shimadzu Prominence® UFLCXR
Det.: Applied Biosystems 4000 QTRAP® LC/MS/MS system
Ion Source: TurboIonSpray®, ESI+ and ESI-
IonSpray Voltage, ESI voltage: 5kV (ESI+)
Gas 1: 40psi
Gas 2: 60psi
Source Temp.: 500°C;
max pressure ~7,200psi

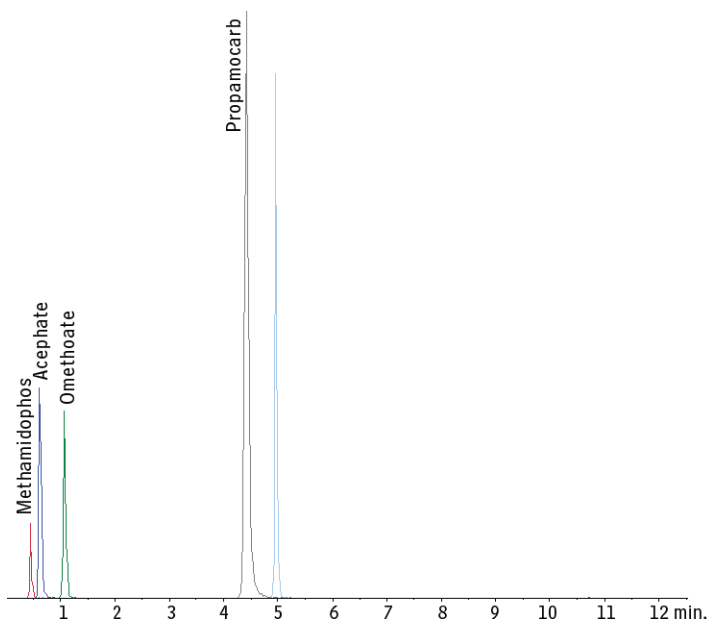
Time (min.)	%B
0.0	10
1.0	10
8.0	90
10.0	90
11.0	10

Peak List:

Compound	Polarity	Mol. Wt.	RT (min.)	Transition 1
methamidophos	positive	141.13	0.45	142.0 → 94.0
acephate	positive	183.17	0.62	184.0 → 142.8
bentazone	negative	240.28	0.77	239.0 → 131.8
omethoate	positive	213.14	1.07	214.0 → 124.9
bromoxynil	negative	276.91	1.32	275.9 → 80.8
butoxycarboxin	positive	222.27	1.64	223.1 → 86.1
aldicarb sulfoxide	positive	206.26	2.03	207.1 → 132.1
methomyl	positive	162.21	2.08	163.1 → 88.1
Ioxynil	negative	370.92	2.46	369.8 → 126.7
thiamethoxam	positive	291.7	2.7	292.0 → 211.0
monocrotophos	positive	223.17	2.73	224.1 → 127.0
dimethoate	positive	229.26	2.9	230.1 → 199.0
fenuron	positive	164.21	3.1	165.1 → 72.1
dioxacarb	positive	223.23	3.12	224.0 → 123.0
dicrotophos	positive	237.19	3.28	238.0 → 112.0
vamidothion	positive	287.34	3.45	288.0 → 146.0
carbendazim	positive	191.19	3.73	192.0 → 160.0
aldicarb	positive	190.27	3.73	208.1 → 116.0
formetanate	positive	221.26	3.74	222.1 → 165.2
acetamiprid	positive	222.67	3.95	223.1 → 126.1
carbetamide	positive	236.27	3.99	237.0 → 192.0
oxamyl	positive	219.26	3.99	237.1 → 72.2
aminocarb	positive	208.26	4.11, 4.44	209.2 → 137.1
propoxur	positive	209.24	4.15	210.1 → 111.0
oxadixyl	positive	278.31	4.21	279.0 → 219.0
bendiocarb	positive	223.23	4.24	224.1 → 109.1
thiacloprid	positive	252.71	4.25	253.2 → 126.1
thiophanate methyl	positive	342.4	4.3	343.0 → 151.0
methabenziazuron	positive	221.28	4.31	222.0 → 165.1
tricyclazole	positive	189.23	4.35	190.0 → 163.0
pyracarbolid	positive	217.27	4.38	218.2 → 125.0
propamocarb	positive	188.27	4.41	189.2 → 102.2
carboxin	positive	235.3	4.51	236.0 → 143.0
ethiofencarb	positive	225.31	4.52	226.1 → 106.9
carbaryl	positive	201.22	4.58	202.1 → 145.1
thiabendazole	positive	201.25	4.6	202.0 → 175.0
carbanilide	positive	212.25	4.6	213.1 → 94.0
clethodim	positive	359.91	4.61	360.0 → 164.0
tebuthiuron	positive	228.32	4.68	229.2 → 172.4

Compound	Polarity	Mol. Wt.	RT (min.)	Transition 1
fluometuron	positive	232.21	4.75	233.1 → 72.0
metobromuron	positive	259.1	4.82	259.0 → 170.2
flutriafol	positive	301.3	4.84	302.0 → 123.0
chlortoluron	positive	212.68	4.92	213.1 → 72.2
simetryn	positive	213.31	4.96	214.0 → 124.0
pirimicarb	positive	238.29	4.97	239.2 → 72.1
forchlorfenuron	positive	247.68	5.04	248.0 → 129.1
siduron	positive	232.32	5.09	233.3 → 137.2
ethofumesate	positive	286.35	5.11	304.0 → 121.0
cycluron	positive	198.31	5.13	199.1 → 89.1
diuron	positive	233.1	5.13	233.1 → 72.0
diethofencarb	positive	267.33	5.15	268.0 → 226.0
furalaxyl	positive	301.34	5.18	302.2 → 95.0
methiocarb	positive	225.31	5.24	226.1 → 169.2
secbumeton	positive	225.29	5.24	226.2 → 169.9
terbumeton	positive	225.29	5.25	226.2 → 169.9
prometon	positive	225.29	5.26	226.2 → 142.3
paclobutrazol	positive	293.8	5.26	294.0 → 70.0
promecarb	positive	207.27	5.27	208.2 → 109.2
dimoxystrobin	positive	326.39	5.27	327.1 → 205.0
ametryn	positive	227.33	5.29	228.2 → 186.2
methoprotryne	positive	271.39	5.32	272.2 → 240.2
triadimefon	positive	293.75	5.32	294.0 → 197.0
mexacarbate	positive	222.28	5.34	223.2 → 166.2
fludioxinil	negative	248.19	5.34	247.0 → 179.9
boscalid	negative	343.21	5.36	343.0 → 307
azoxystrobin	positive	403.3	5.36	404.1 → 372.1
methoxyfenozide	positive	368.47	5.38	369.0 → 149.0
cyproconazole	positive	291.78	5.39	292.2 → 70.2
prothioconazole	negative	344.26	5.41	341.9 → 305.8
flufenacet	positive	363.34	5.46	364.0 → 152.0
butafenacil	positive	474.82	5.47	492.2 → 331.1
myclobutanil	positive	288.78	5.51	289.0 → 70.0
dimethomorph	positive	387.86	5.52, 5.54	388.0 → 301.0
bromuconazole 47	positive	377.06	5.54	378.0 → 159.0
prometryn	positive	241.36	5.55	242.2 → 158.1
fipronil	negative	437.15	5.56	434.9 → 329.8
triticonazole	positive	317.81	5.58	318.0 → 70.0
tetraconazole	positive	372.12	5.6	372.0 → 159.0
uniconazole	positive	291.78	5.62	292.2 → 70.2
fluoaxastrobin	positive	458.83	5.62	459.2 → 427.2
cyazofamid	positive	324.78	5.63	325.0 → 108.0
terbutryn	positive	241.36	5.65	242.2 → 186.0
tebufenozide	positive	352.47	5.65	353.1 → 133.1
chloroxuron	positive	290.75	5.67	291.0 → 72.0
picoxystrobin	positive	367.25	5.67	368.0 → 145.0
carfentrazone-ethyl	positive	412.17	5.69	412.0 → 346.0
diclobutrazol	positive	328.21	5.71	328.0 → 70.0
fenoxycarb	positive	301.34	5.72	302.0 → 88.1
diflubenzuron	positive	310.67	5.72	311.2 → 158.1
neburon	positive	275.18	5.74	275.0 → 88.0
flusiazole	positive	315.4	5.76	316.0 → 247.0
epoxiconazole	positive	329.76	5.76	330.0 → 121.0
fenbuconazole	positive	336.82	5.76	337.0 → 125.0
bupirimate	positive	316.41	5.77	317.0 → 166.0
zoxamide	positive	336.54	5.77	336.2 → 187.1
rotenone	positive	394.42	5.79	395.0 → 213.0
benalaxyl	positive	325.41	5.83	326.0 → 148.0
tebuconazole	positive	307.82	5.84	308.0 → 70.0
penconazole	positive	284.19	5.93	284.0 → 159.0
cyprodinil	positive	225.29	5.96	226.0 → 93.0
propiconazole	positive	342.22	5.96	342.0 → 159.0
alanycarb	positive	399.52	5.98	400.1 → 238.2
triflumuron	positive	358.68	5.99	359.1 → 156.1
thiobencarb	positive	257.78	6	258.1 → 125.0
pyraclostrobin	positive	387.83	6	388.0 → 194.0
benzoximate	positive	363.8	6.01	364.0 → 199.0
pinoxaden	positive	400.52	6.01	401.3 → 317.2
clofentezine	positive	303.15	6.11	303.0 → 138.0
trifloxystrobin	positive	408.38	6.12	409.2 → 186.0
prochloraz	positive	376.67	6.21	376.0 → 308.0
difenoconazole	positive	406.28	6.29	406.0 → 251.0
benfuracarb	positive	410.53	6.29	411.2 → 195.1
triflumizole	positive	345.75	6.38	346.1 → 278.1
buprofezin	positive	305.44	6.4	306.0 → 201.0
piperonyl butoxide	positive	338.45	6.42	356.2 → 177.2
pyriproxyfen	positive	321.28	6.52	322.0 → 96.0
propargite	positive	350.48	6.68	368.0 → 231.0
etoxazole	positive	359.42	6.87	360.1 → 141.0
amitraz	positive	293.41	6.89	294.2 → 163.3
noviflumuron	negative	529.1	7.08	527.1 → 343.8
pyridaben	positive	364.94	7.18	365.0 → 147.0
fenpyroximate	positive	421.5	7.2	422.0 → 366.0
fenpropimorph	positive	303.49	7.38	304.0 → 147.0
spiroxamine	positive	297.48	7.63, 7.81	298.0 → 144.0
spinosyn A	positive	731.97	8.37	732.6 → 142.2

Pesticides on Pinnacle® DB Aqueous C18



LC_FF0479C

Sample: multicomponent pesticide standard
Inj.: 5µL
Conc.: 33.3ppb each pesticide
Sample diluent: acetonitrile

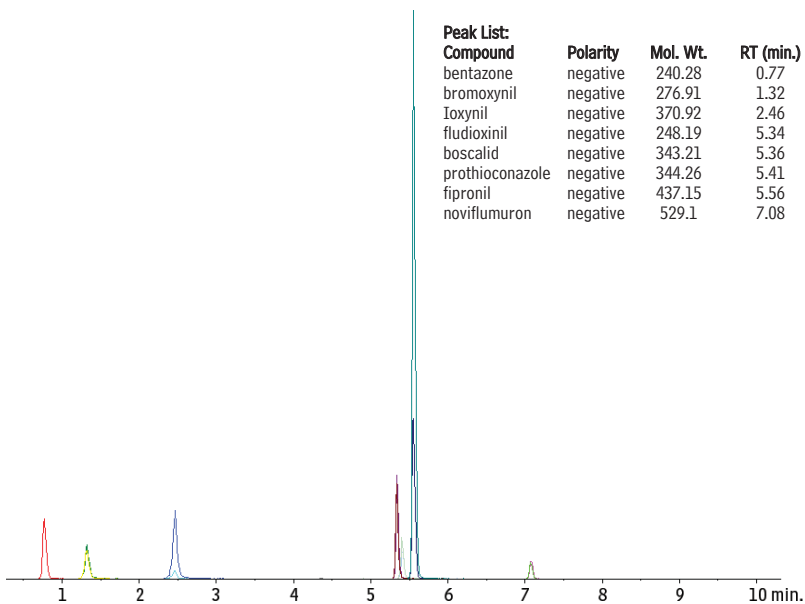
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Cat.#: 9418252
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Pore size: 140Å

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 B: 10 mM NH₄OAc in methanol

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8.0	90
10.0	90
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Temp.: 35°C
Instrument: Shimadzu Prominence® UFLCXR
Det.: Applied Biosystems 4000 QTRAP® LC/MS/MS system
 Ion Source: TurboIonSpray®, ESI+
 IonSpray Voltage, ESI voltage: 5kV (ESI+)
 Gas 1: 40psi
 Gas 2: 60psi
 Source Temp.: 500°C; max pressure ~7,200psi

Pesticides on Pinnacle® DB Aqueous C18 (ESI-)



LC_FF0479B

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10.0	90
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Flow: 600µL/min
Temp.: 35°C
Instrument: Shimadzu Prominence® UFLCXR
Det.: Applied Biosystems 4000 QTRAP® LC/MS/MS system
Ion Source: TurboIonSpray®, ESI-
IonSpray Voltage, ESI voltage: -4.2kV (ESI-)
Gas 1: 40psi
Gas 2: 60psi
Source Temp.: 500°C; max pressure ~7,200psi