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中华人民共和国国家标准

GB/T 20770—2008
代替 GB/T 20770—2006

粮谷中486种农药及相关化学品残留量的测定 液相色谱-串联质谱法

Determination of 486 pesticides and related chemicals residues in grains—LC-MS-MS method

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中华人民共和国国家质量监督检验检疫总局
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目　次

前言 …… Ⅲ
1　范围 …… 1
2　规范性引用文件 …… 1
3　原理 …… 1
4　试剂和材料 …… 1
5　仪器 …… 2
6　试样制备与保存 …… 2
7　测定步骤 …… 2
8　结果计算 …… 5
9　精密度 …… 5
附录 A（资料性附录）　486 种农药及相关化学品中文与英文名称、方法检出限、分组、溶剂选择和混合标准溶液浓度表 …… 6
附录 B（资料性附录）　486 种农药及相关化学品监测离子对、碰撞气能量、源内碎裂电压和保留时间 …… 21
附录 C（资料性附录）　486 种农药及相关化学品多反应监测(MRM)色谱图 …… 37
附录 D（资料性附录）　486 种农药及相关化学品精密度数据表 …… 62
附录 E（资料性附录）　486 种农药及相关化学品英文中文名称对照索引(按英文字母顺序) …… 77

前　言

本标准代替 GB/T 20770—2006《粮谷中 372 种农药及相关化学品多残留测定方法　液相色谱-质谱和液相色谱-串联质谱法》。

本标准与 GB/T 20770—2006 相比，主要变化如下：

——可测定的农药品种由 372 种扩大为 486 种，增加了 ESI 负源检测的农药品种；

——改变了前处理方法，选择了新的测试仪器和测试条件。

本标准的附录 A、附录 B、附录 C、附录 D、附录 E 为资料性附录。

本标准由中华人民共和国国家质量监督检验检疫总局提出并归口。

本标准起草单位：中华人民共和国秦皇岛出入境检验检疫局、山东农业大学。

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本标准于 2006 年首次发布。

粮谷中486种农药及相关化学品残留量的测定　液相色谱-串联质谱法

1　范围

本标准规定了大麦、小麦、燕麦、大米、玉米中486种农药及相关化学品(参见附录A和附录E)残留量液相色谱-串联质谱测定方法。

本标准适用于大麦、小麦、燕麦、大米、玉米中486种农药及相关化学品残留的定性鉴别,376种农药及相关化学品残留量的定量测定。

本标准定量测定的376种农药及相关化学品方法检出限为0.02 μg/kg～0.96 mg/kg(参见附录A)。

2　规范性引用文件

下列文件中的条款通过本标准的引用而成为本标准的条款。凡是注日期的引用文件,其随后所有的修改单(不包括勘误的内容)或修订版均不适用于本标准,然而,鼓励根据本标准达成协议的各方研究是否可使用这些文件的最新版本。凡是不注日期的引用文件,其最新版本适用于本标准。

GB 5491　粮食、油料检验　扦样、分样法

GB/T 6379.1　测量方法与结果的准确度(正确度与精密度)　第1部分:总则与定义(GB/T 6379.1—2004,ISO 5725-1:1994,IDT)

GB/T 6379.2　测量方法与结果的准确度(正确度与精密度)　第2部分:确定标准测量方法重复性与再现性的基本方法(GB/T 6379.2—2004,ISO 5725-2:1994,IDT)

GB/T 6682　分析实验室用水规格和试验方法(GB/T 6682—2008,ISO 3696:1987,MOD)

3　原理

用乙腈均质法提取试样中的农药及相关化学品,凝胶渗透色谱净化,液相色谱-串联质谱仪测定,外标法定量。

4　试剂和材料

水为GB/T 6682规定的一级水。

4.1　乙腈:色谱纯。

4.2　甲醇:色谱纯。

4.3　环己烷:色谱纯。

4.4　乙酸乙酯:色谱纯。

4.5　正己烷:色谱纯。

4.6　甲苯:优级纯。

4.7　丙酮:色谱纯。

4.8　异辛烷:色谱纯。

4.9　0.1%甲酸溶液(体积分数)。

4.10　5 mmol/L乙酸铵溶液:称取0 375 g乙酸铵加水稀释至1 000 mL。

4.11　乙腈+甲苯(3+1,体积比)。

4.12　乙腈+水(3+2,体积比)。

4.13 乙酸乙酯+环己烷(1+1,体积比)。

4.14 无水硫酸钠:分析纯。用前在 650 ℃灼烧 4 h,贮于干燥器中,冷却后备用。

4.15 微孔过滤膜(尼龙):13 mm×0 2 μm 和 13 mm×0.45 μm。

4.16 农药及相关化学品标准物质:纯度≥95%。

4.17 农药及相关化学品标准溶液

4.17.1 标准储备溶液

准确称取 5 mg～10 mg(精确至 0 1 mg)农药及相关化学品各标准物分别于 10 mL 容量瓶中,根据标准物的溶解度和测定的需要选甲醇、乙腈、甲苯、甲苯+丙酮混合液、异辛烷等溶剂溶解并定容至刻度,溶剂选择参见附录 A。标准储备溶液避光 0 ℃～4 ℃保存,可使用一年。

4.17.2 混合标准溶液(混合标准溶液 A、B、C、D、E、F 和 G)

按照农药及相关化学品的性质和保留时间,将 486 种农药及相关化学品分成 A、B、C、D、E、F 和 G 七个组,并根据每种农药及相关化学品在仪器上的响应灵敏度,确定其在混合标准溶液中的浓度。本标准对 486 种农药及相关化学品的分组及其混合标准溶液浓度参见附录 A。

依据每种农药及相关化学品的分组、混合标准溶液浓度及其标准储备液的浓度,移取一定量的单个农药及相关化学品标准储备溶液于 100 mL 容量瓶中,用甲醇定容至刻度。混合标准溶液避光 0 ℃～4 ℃保存,可使用一个月。

4.17.3 基质混合标准工作溶液

农药及相关化学品基质混合标准工作溶液是用空白样品基质溶液配成不同浓度的基质混合标准工作溶液 A、B、C、D、E、F 和 G,用于做标准工作曲线。

基质混合标准工作溶液应现用现配。

5 仪器

5.1 液相色谱-串联质谱仪:配有电喷雾离子源(ESI)。

5.2 凝胶渗透色谱仪:配有 400 mm×25 mm(内径),内装 BIO-Beads S-X3 填料或相当的净化柱。

5.3 分析天平:感量为 0 1 mg 和 0 01 g。

5.4 均质器:最大转速为 24 000 r/min。

5.5 梨形瓶:150 mL 和 250 mL。

5.6 氮气吹干仪。

5.7 离心管:80 mL。

5.8 移液器:1 mL。

5.9 样品瓶:2 mL,带聚四氟乙烯旋盖。

5.10 离心机:最大转速为 4 200 r/min。

5.11 旋转蒸发器。

6 试样制备与保存

6.1 试样的制备

按 GB 5491 扦取的粮谷样品经粉碎机粉碎,过 20 目筛,混匀,密封,作为试样,标明标记。

6.2 试样的保存

试样于常温下保存。

7 测定步骤

7.1 提取

称取 10 g 试样(精确至 0.01 g),放入盛有 15 g 无水硫酸钠的具塞离心管中,加 35 mL 乙腈,均质

提取 1 min，3 800 r/min 离心 5 min，上清液通过装有无水硫酸钠的筒形漏斗，收集于梨形瓶中，残渣再用 30 mL 乙腈提取一次，合并提取液，将提取液用旋转蒸发器于 40 ℃水浴蒸发浓缩至约 0.5 mL，加入 5 mL 乙酸乙酯＋环己烷(1＋1)进行溶剂交换，重复两次，最后使样液体积约为 5 mL，待净化。

7.2 凝胶渗透色谱净化

7.2.1 条件

a) 净化柱：400 mm×25 mm(内径)，内装 BIO-Beads S-X3 填料或相当者；

b) 检测波长：254 nm；

c) 流动相：乙酸乙酯＋环己烷(1＋1，体积比)；

d) 流速：5 mL/min；

e) 进样量：5 mL；

f) 开始收集时间：22 min；

g) 结束收集时间：40 min。

7.2.2 净化

将上述提取液转移至 10 mL 容量瓶中，用 5 mL 乙酸乙酯＋环己烷(1＋1)分两次洗涤梨形瓶，并转移至上述 10 mL 容量瓶中，定容至刻度，摇匀。将样液过 0.45 μm 微孔滤膜滤入 10 mL 试管中，供凝胶渗透色谱仪净化，收集 22 min～40 min 的馏分于 200 mL 梨形瓶中，并在 40 ℃水浴旋转蒸发至 0.5 mL。将浓缩液置于氮气吹干仪上吹干，迅速加入 1 mL 的乙腈＋水(3＋2)溶解残渣，混匀，经 0.2 μm 滤膜过滤，供液相色谱-串联质谱测定。

7.3 液相色谱-串联质谱测定

7.3.1 条件

7.3.1.1 A、B、C、D、E、F 组液相色谱-串联质谱测定条件(ESI 正离子源)

a) 色谱柱：ZORBOX SB-C_{18}，3.5 μm，100 mm × 2 1 mm(内径)或相当者；

b) 流动相及梯度洗脱条件见表 1；

表 1 流动相及梯度洗脱条件

步骤	总时间/min	流速/(μL/min)	流动相 A(0.1%甲酸水)/%	流动相 B(乙腈)/%
0	0.00	400	99.0	1.0
1	3.00	400	70.0	30.0
2	6.00	400	60.0	40.0
3	9.00	400	60.0	40.0
4	15.00	400	40.0	60.0
5	19.00	400	1.0	99.0
6	23.00	400	1.0	99.0
7	23.01	400	99.0	1.0

c) 柱温：40 ℃；

d) 进样量：10 μL；

e) 电离源模式：电喷雾离子化；

f) 电离源极性：正模式；

g) 雾化气：氮气；

h) 雾化气压力:0.28 MPa;

i) 离子喷雾电压:4 000 V;

j) 干燥气温度:350 ℃;

k) 干燥气流速:10 L/min;

l) 监测离子对、碰撞气能量和源内碎裂电压参见附录 B。

7.3.1.2 G 组液相色谱-串联质谱测定条件(ESI 负离子源)

a) 色谱柱:ZORBOX SB-C_{18},3.5 μm,100 mm×2 1 mm(内径)或相当者;

b) 流动相及梯度洗脱条件见表 2;

表 2 流动相及梯度洗脱条件

步骤	总时间/min	流速/(μL/min)	流动相 A(5 mmol/L 乙酸铵水)/%	流动相 B(乙腈)/%
0	0.00	400	99.0	1.0
1	3.00	400	70.0	30.0
2	6.00	400	60.0	40.0
3	9.00	400	60.0	40.0
4	15.00	400	40.0	60.0
5	19.00	400	1.0	99.0
6	23.00	400	1.0	99.0
7	23.01	400	99.0	1.0

c) 柱温:40 ℃;

d) 进样量:10 μL;

e) 电离源模式:电喷雾离子化;

f) 电离源极性:负模式;

g) 雾化气:氮气;

h) 雾化气压力:0.28 MPa;

i) 离子喷雾电压:4 000 V;

j) 干燥气温度:350 ℃;

k) 干燥气流速:10 L/min;

l) 监测离子对、碰撞气能量和源内碎裂电压参见附录 B。

7.3.2 定性测定

在相同实验条件下进行样品测定时,如果检出的色谱峰的保留时间与标准样品相一致,并且在扣除背景后的样品质谱图中,所选择的离子均出现,而且所选择的离子丰度比与标准样品的离子丰度比相一致(相对丰度>50%,允许±20%偏差;相对丰度>20%~50%,允许±25%偏差;相对丰度>10%~20%,允许±30%偏差;相对丰度≤10%,允许±50%偏差),则可判断样品中存在这种农药或相关化学品。

7.3.3 定量测定

本标准中液相色谱-串联质谱采用外标校准曲线法定量测定。为减少基质对定量测定的影响,需用空白样品提取液来配制所使用的一系列基质标准工作溶液,用基质标准工作溶液分别进样来绘制标准曲线。并且保证所测样品中农药及相关化学品的响应值均在仪器的线性范围内。486 种农药及相关化学品多反应监测(MRM)色谱图参见附录 C。

7.4 平行试验

按以上步骤对同一试样进行平行试验测定。

7.5 空白试验

除不称取试样外，均按上述步骤进行。

8 结果计算

液相色谱-串联质谱测定采用标准曲线法定量，标准曲线法定量结果按式(1)计算：

$$X_i = c_i \times \frac{V}{m} \times \frac{1\,000}{1\,000} \qquad \cdots\cdots(1)$$

式中：

X_i——试样中被测组分含量，单位为毫克每千克(mg/kg)；

c_i——从标准工作曲线得到的试样溶液中被测组分的浓度，单位为微克每毫升(μg/mL)；

V——试样溶液定容体积，单位为毫升(mL)；

m——样品溶液所代表试样的质量，单位为克(g)。

计算结果应扣除空白值。

9 精密度

本标准精密度数据是按照 GB/T 6379.1 和 GB/T 6379 2 的规定确定的，获得重复性和再现性的值是以 95%的可信度来计算。本标准方法的精密度数据参见附录 D。

附 录 A
（资料性附录）
486 种农药及相关化学品中文与英文名称、方法检出限、分组、溶剂选择和混合标准溶液浓度表

486 种农药及相关化学品中文与英文名称、方法检出限、分组、溶剂选择和混合标准溶液浓度表见表 A.1。

表 A.1 486 种农药及相关化学品中文与英文名称、方法检出限、分组、溶剂选择和混合标准溶液浓度表

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
A 组					
1	苯胺灵	propham	55.00	甲苯	11.00
2	异丙威	isoprocarb	1.15	甲醇	0.23
3	3,4,5-混杀威	3,4,5-trimethacarb	0.17	甲醇	0.03
4	环莠隆	cycluron	0.10	甲醇	0.02
5	甲萘威	carbaryl	5.16	甲醇	1.03
6	毒草胺	propachlor	0.14	甲醇	0.03
7	吡咪唑	rabenzazole	0.67	甲醇	0.13
8	西草净	simetryn	0.07	甲醇	0.01
9	绿谷隆	monolinuron	1.78	甲醇	0.36
10	速灭磷	mevinphos	0.78	甲醇	0.16
11	叠氮津	aziprotryne	0.69	甲醇	0.14
12	密草通	secbumeton	0.04	甲醇	0.01
13	嘧菌磺胺[a]	cyprodinil	0.37	甲醇	0.07
14	播土隆	buturon	4.48	甲醇	0.90
15	双酰草胺	carbetamide	1.82	甲醇	0.36
16	抗蚜威	pirimicarb	0.08	甲醇	0.02
17	异噁草松	clomazone dimethazone	0.21	甲醇	0.04
18	氰草津	cyanazine	0.08	甲醇	0.02
19	扑草净	prometryne	0.08	甲醇	0.02
20	对氧磷	paraoxon methyl	0.38	甲醇	0.08
21	4,4′-二氯二苯甲酮[a]	4,4′-dichlorobenzophenone	6.80	甲醇	1.36
22	噻虫啉	thiacloprid	0.19	甲醇	0.04
23	吡虫啉	imidacloprid	11.00	甲醇	2.20
24	磺噻隆	ethidimuron	0.75	甲醇	0.15
25	丁噻草酮	isomethiozin	0.53	甲醇	0.11
26	燕麦敌	diallate	44.60	甲醇	8.92
27	乙草胺	acetochlor	23.70	甲醇	4.74

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
28	烯啶虫胺[a]	nitenpyram	8.56	甲醇	1.71
29	盖草津[a]	methoprotryne	0.12	甲醇	0.02
30	二甲酚草胺	dimethenamid	2.15	甲醇	0.43
31	特草灵	terrbucarb	1.05	甲醇	0.21
32	戊菌唑	penconazole	1.00	甲醇	0.20
33	腈菌唑	myclobutanil	0.50	甲醇	0.10
34	咪唑乙烟酸[a]	imazethapyr	0.56	甲醇	0.11
35	多效唑	paclobutrazol	0.29	甲醇	0.06
36	倍硫磷亚砜	fenthion sulfoxide	0.16	甲醇	0.03
37	三唑醇[a]	triadimenol	5.28	甲醇	1.06
38	仲丁灵[a]	butralin	0.95	甲醇	0.19
39	螺噁茂胺[a]	spiroxamine	0.03	甲醇	0.01
40	甲基立枯磷	tolclofos methyl	33.28	甲醇	6.66
41	甜菜胺	desmedipham	2.01	甲醇	0.40
42	杀扑磷	methidathion	5.33	甲醇	1.07
43	烯丙菊酯	allethrin	30.20	甲醇	6.04
44	敌瘟磷	edifenphos	0.38	甲醇	0.08
45	丙草胺	pretilachlor	0.17	甲醇	0.03
46	二嗪磷	diazinon	0.36	甲苯	0.07
47	氟硅唑	flusilazole	0.29	甲醇	0.06
48	丙森锌	iprovalicarb	1.16	甲醇	0.23
49	麦锈灵	benodanil	1.74	甲醇	0.35
50	氟酰胺	flutolanil	0.57	甲醇	0.11
51	氨磺磷	famphur	1.80	甲醇	0.36
52	苯霜灵	benalyxyl	0.62	甲醇	0.12
53	苄氯三唑醇	diclobutrazole	0.23	甲醇	0.05
54	乙环唑	etaconazole	0.89	甲醇	0.18
55	氯苯嘧啶醇	fenarimol	0.30	甲醇	0.06
56	胺菊酯	tetramethirn	0.91	甲醇	0.18
57	解草酯	cloquintocet mexyl	0.94	甲醇	0.19
58	联苯三唑醇	bitertanol	16.70	甲醇	3.34
59	吡喃草酮	tepraloxydim	6.10	甲醇	1.22
60	甲基硫菌灵[a]	thiophanate methyl	10.00	甲醇	2.00
61	益棉磷	azinphos ethyl	54.46	甲醇	10.89

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
62	杀铃脲	triflumuron	1.96	甲醇	0.39
63	异噁氟草	isoxaflutole	1.95	甲醇	0.39
64	莎稗磷	anilofos	0.36	甲醇	0.07
65	硫菌灵[a]	thiophanat ethyl	10.08	甲醇	2.02
66	喹禾灵	quizalofop-ethyl	0.34	甲醇	0.07
67	精氟吡甲禾灵	haloxyfop-methyl	1.32	甲醇	0.26
68	吡氟禾草灵	fluazifop butyl	0.13	甲醇	0.03
69	乙基溴硫磷[a]	bromophos-ethyl	283.85	甲醇	56.77
70	地散磷	bensulide	17.10	甲醇	3.42
71	醚苯磺隆[a]	triasulfuron	0.80	甲醇	0.16
72	溴苯烯磷	bromfenvinfos	1.51	甲醇	0.30
73	嘧菌酯	azoxystrobin	0.23	甲醇	0.05
74	茚虫威	indoxacarb	3.77	甲醇	0.75
B组					
75	棉隆	dazomet	63.50	甲醇	12.70
76	烟碱	nicotine	1.10	甲醇	0.22
77	非草隆	fenuron	0.52	甲醇	0.10
78	鼠立克	crimidine	0.78	甲醇	0.16
79	乙酰甲胺磷[a]	acephate	6.67	甲醇	1.33
80	禾草敌	molinate	1.05	甲醇	0.21
81	多菌灵	carbendazim	0.23	甲醇	0.05
82	6-氯-4-羟基-3-苯基哒嗪	6-chloro-4-hydroxy-3-phenyl-pyridazin	0.83	甲醇	0.17
83	残杀威	propoxur	12.20	甲醇	2.44
84	异唑隆	isouron	0.20	甲醇	0.04
85	绿麦隆	chlorotoluron	0.31	甲醇	0.06
86	久效威[a]	thiofanox	78.50	甲醇	15.70
87	氯草灵	chlorbufam	91.50	甲醇	18.30
88	噁虫威	bendiocarb	1.59	甲醇	0.32
89	扑灭津	propazine	0.16	甲醇	0.03
90	特丁津	terbuthylazine	0.23	甲醇	0.05
91	敌草隆	diuron	0.78	甲醇	0.16
92	氯甲硫磷	chlormephos	224.00	甲醇	44.80
93	噻虫胺[a]	clothianidin	31.50	甲醇	6.30
94	拿草特	pronamide	7.69	甲醇	1.54

表 A 1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
95	二甲草胺	dimethachloro	0.95	甲醇	0.19
96	溴谷隆	methobromuron	8.42	甲醇	1.68
97	甲拌磷	phorate	157.00	甲醇	31.40
98	苯草醚	aclonifen	12.10	甲醇	2.42
99	地安磷	mephosfolan	1.16	甲醇	0.23
100	脱苯甲基亚胺唑	imibenzonazole-des-benzyl	3.11	甲醇	0.62
101	草不隆	neburon	3.55	甲醇	0.71
102	精甲霜灵	mefenoxam	0.77	甲醇	0.15
103	发硫磷[a]	prothoate	1.23	甲醇	0.25
104	乙氧呋草黄	ethofume sate	186.00	甲醇	37.20
105	异稻瘟净	iprobenfos	4.14	甲醇	0.83
106	特普	TEPP	5.20	甲醇	1.04
107	环丙唑醇	cyproconazole	0.37	甲醇	0.07
108	噻虫嗪[a]	thiamethoxam	16.50	甲醇	3.30
109	育畜磷	crufomate	0.26	甲醇	0.05
110	乙嘧硫磷	etrimfos	9.38	甲醇	1.88
111	杀鼠醚	coumatetralyl	0.68	甲醇	0.14
112	赛灭磷	cythioate	40.00	甲醇	8.00
113	磷胺	phosphamidon	1.94	甲醇	0.39
114	甜菜宁	phenmedipham	2.24	甲醇	0.45
115	环酰菌胺[a]	fenhexamid	0.47	甲醇	0.09
116	粉唑醇	flutriafol	4.29	甲醇	0.86
117	抑菌丙胺酯	furalaxyl	0.39	甲醇	0.08
118	生物丙烯菊酯	bioallethrin	99.00	甲醇	19.80
119	苯腈磷	cyanofenphos	10.40	甲醇	2.08
120	甲基嘧啶磷	pirimiphos methyl	0.10	甲醇	0.02
121	噻嗪酮	buprofezin	0.44	甲醇	0.09
122	乙拌磷砜	disulfoton sulfone	1.23	甲醇	0.25
123	喹螨醚	fenazaquin	0.16	甲醇	0.03
124	三唑磷	triazophos	0.34	甲醇	0.07
125	脱叶磷	DEF	0.81	甲醇	0.16
126	环酯草醚	pyriftalid	0.31	甲醇	0.06
127	叶菌唑	metconazole	0.66	甲醇	0.13
128	蚊蝇醚	pyriproxyfen	0.22	甲醇	0.04

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
129	噻草酮[a]	cycloxydim	1.27	甲醇	0.25
130	异噁酰草胺	isoxaben	0.09	甲醇	0.02
131	呋草酮	flurtamone	0.22	甲醇	0.04
132	氟乐灵	trifluralin	167.40	甲苯	33.48
133	甲基麦草氟异丙酯	flamprop methyl	10.10	甲醇	2.02
134	生物苄呋菊酯	bioresmethrin	3.71	甲醇	0.74
135	丙环唑	propiconazole	0.88	甲醇	0.18
136	毒死蜱	chlorpyrifos	26.90	甲醇	5.38
137	氯乙氟灵[a]	fluchloralin	244.00	甲醇	48.80
138	烯草酮[a]	clethodim	1.04	甲醇	0.21
139	麦草氟异丙酯[a]	flamprop isopropyl	0.22	甲醇	0.04
140	杀虫畏	tetrachlorvinphos	1.11	甲醇	0.22
141	炔螨特	propargite	34.30	甲醇	6.86
142	糠菌唑	bromuconazole	1.57	甲醇	0.31
143	氟吡酰草胺	picolinafen	0.36	甲醇	0.07
144	氟噻乙草酯	fluthiacet methyl	2.65	甲醇	0.53
145	肟菌酯	trifloxystrobin	1.00	甲醇	0.20
146	氯嘧磺隆	chlorimuron ethyl	15.20	甲醇	3.04
C组					
147	甲胺磷	methamidophos	2.47	甲醇	0.49
148	茵草敌	EPTC	18.67	甲醇	3.73
149	避蚊胺	diethyltoluamide	0.28	甲醇	0.06
150	灭草隆	monuron	17.37	甲醇	3.47
151	嘧霉胺	pyrimethanil	0.34	甲醇	0.07
152	黑穗胺	fenfuram	0.39	甲醇	0.08
153	灭藻醌	quinoclamine	3.96	甲醇	0.79
154	仲丁威	fenobucarb	2.95	甲醇	0.59
155	敌稗	propanil	10.80	甲醇	2.16
156	克百威	carbofuran	6.53	甲醇	1.31
157	啶虫脒	acetamiprid	0.72	甲醇	0.14
158	嘧菌胺	mepanipyrim	0.16	甲醇	0.03
159	扑灭通	prometon	0.07	甲醇	0.01
160	甲硫威	methiocarb	20.60	甲醇	4.12
161	甲氧隆	metoxuron	0.32	甲醇	0.06

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
162	乐果	dimethoate	3.80	甲醇	0.76
163	呋菌胺[a]	methfuroxam	0.14	甲醇	0.03
164	伏草隆[a]	fluometuron	0.46	甲醇	0.09
165	百治磷	dicrotophos	0.57	甲醇	0.11
166	庚酰草胺[a]	monalide	0.60	甲醇	0.12
167	双苯酰草胺	diphenamid	0.07	甲醇	0.01
168	灭线磷	ethoprophos	1.38	甲醇	0.28
169	地虫硫磷	fonofos	3.73	甲醇	0.75
170	土菌灵[a]	etridiazol	50.21	甲醇	10.04
171	环嗪酮	hexazinone	0.06	甲醇	0.01
172	阔草净[a]	dimethametryn	0.06	甲醇	0.01
173	敌百虫	trichlorphon	0.56	甲醇	0.11
174	内吸磷[a]	demeton($o+s$)	3.39	甲醇	0.68
175	解草酮	benoxacor	3.45	甲醇	0.69
176	除草定	bromacil	11.80	甲醇	2.36
177	甲拌磷亚砜	phorate sulfoxide	184.14	甲醇	34.65
178	溴莠敏	brompyrazon	1.80	甲醇	0.36
179	氧化萎锈灵	oxycarboxin	0.45	甲醇	0.09
180	灭锈胺	mepronil	0.19	甲醇	0.04
181	乙拌磷	disulfoton	234.85	甲醇	46.97
182	倍硫磷[a]	fenthion	26.00	甲醇	5.20
183	甲霜灵	metalaxyl	0.25	甲醇	0.05
184	甲呋酰胺	ofurace	0.50	甲醇	0.10
185	吗菌灵	dodemorph	0.20	甲醇	0.04
186	甲基咪草酯	imazamethabenz-methyl	0.08	甲醇	0.02
187	乙拌磷亚砜[a]	disulfoton-sulfoxide	1.42	甲醇	0.28
188	稻瘟灵	isoprothiolane	0.92	甲醇	0.18
189	抑霉唑	imazalil	1.00	甲醇	0.20
190	辛硫磷	phoxim	41.40	甲醇	8.28
191	喹硫磷	quinalphos	1.00	甲醇	0.20
192	灭菌磷	ditalimfos	33.61	甲醇	6.72
193	苯氧威[a]	fenoxycarb	9.14	甲醇	1.83
194	嘧啶磷	pyrimitate	0.09	甲醇	0.02
195	丰索磷	fensulfothin	1.00	甲醇	0.20

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
196	氯咯草酮[a]	fluorochloridone	6.89	甲醇	1.38
197	丁草胺	butachlor	10.03	甲醇	2.01
198	亚胺菌	kresoxim-methyl	50.29	甲醇	10.06
199	戊叉菌唑	triticonazole	1.51	异辛烷	0.30
200	苯线磷亚砜	fenamiphos sulfoxide	0.37	甲醇	0.07
201	噻吩草胺	thenylchlor	12.07	甲醇	2.41
202	氰菌胺	fenoxanil	19.70	甲醇	3.94
203	杀草吡啶	fluridone	0.09	甲醇	0.02
204	氟环唑	epoxiconazole	2.03	甲醇	0.41
205	氯辛硫磷	chlorphoxim	38.79	甲醇	7.76
206	苯线磷砜	fenamiphos sulfone	0.22	甲醇	0.04
207	腈苯唑	fenbuconazole	0.82	甲醇	0.16
208	异柳磷[a]	isofenphos	109.34	甲醇	21.87
209	苯醚菊酯	phenothrin	169.60	甲醇	33.92
210	呱草磷	piperophos	4.62	甲醇	0.92
211	增效醚	piperonyl butoxide	0.57	甲醇	0.11
212	乙氧氟草醚[a]	oxyflurofen	29.27	甲醇	5.85
213	蝇毒磷	coumaphos	1.05	甲醇	0.21
214	氟噻草胺[a]	flufenacet	2.65	甲醇	0.53
215	伏杀硫磷	phosalone	24.02	甲醇	4.80
216	甲氧虫酰肼	methoxyfenozide	1.85	甲醇	0.37
217	咪鲜胺	prochloraz	1.03	甲醇	0.21
218	丙硫特普	aspon	0.87	甲醇	0.17
219	乙硫磷	ethion	1.48	甲醇	0.30
220	杀螨隆[a]	diafenthiuron	0.14	甲醇	0.03
221	噻吩磺隆	thifensulfuron-methyl	10.70	甲醇	2.14
222	乙氧嘧磺隆	ethoxysulfuron	2.29	甲醇	0.46
223	氟硫草定[a]	dithiopyr	5.20	甲醇	1.04
224	螺螨酯	spirodiclofen	4.95	甲醇	0.99
225	唑螨酯	fenpyroximate	0.68	甲醇	0.14
226	胺氟草酯	flumiclorac-pentyl	5.30	甲醇	1.06
227	双硫磷	temephos (abate)	0.61	甲醇	0.12
228	氟丙嘧草酯[a]	butafenacil	4.75	甲醇	0.95

表 A 1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
D组					
229	甲呱金翁[a]	mepiquat chloride	0.45	甲醇	0.09
230	二丙烯草胺	allidochlor	20.52	甲醇	4.10
231	霜霉威[a]	propamocarb	0.04	甲醇	0.01
232	三环唑	tricyclazole	0.62	甲醇	0.13
233	噻菌灵	thiabendazole	0.24	甲醇	0.05
234	苯噻草酮	metamitron	3.18	甲醇	0.64
235	异丙隆	isoproturon	0.07	甲醇	0.01
236	莠去通	atratone	0.09	甲醇	0.02
237	敌草净	oesmetryn	0.09	甲醇	0.02
238	赛克津	metribuzin	0.27	甲苯	0.05
239	—	DMST	20.00	甲醇	4.00
240	环草敌	cycloate	2.22	甲醇	0.44
241	莠去津	atrazine	0.18	甲醇	0.04
242	丁草敌	butylate	151.00	甲醇	30.2
243	吡蚜酮	pymetrozin	17.14	甲醇	3.43
244	氯草敏	chloridazon	1.16	甲醇	0.23
245	菜草畏	sulfallate	103.60	甲醇	20.72
246	乙硫苯威	ethiofencarb	2.46	甲醇	0.49
247	特丁通	terbumeton	0.05	甲醇	0.01
248	环丙津	cyprazine	0.05	甲醇	0.01
249	阔草净	ametryn	0.48	甲醇	0.10
250	木草隆	tebuthiuron	0.11	甲醇	0.02
251	草达津	trietazine	0.30	甲醇	0.06
252	另丁津	sebutylazine	0.16	甲醇	0.03
253	畜虫避	dibutyl succinate	111.20	甲醇	22.24
254	牧草胺	tebutam	0.07	甲醇	0.01
255	久效威亚砜	thiofanox-sulfoxide	4.15	甲醇	0.83
256	杀螟丹[a]	cartap hydrochloride	1 040.00	甲醇	208.00
257	虫螨畏	methacrifos	242.37	甲醇	242.37
258	特丁净[a]	terbutryn	11.35	甲醇	2.27
259	咪唑嗪	triazoxide	4.00	甲醇	0.80
260	虫线磷	thionazin	11.34	甲醇	2.27
261	利谷隆	linuron	5.82	甲醇	1.16

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
262	庚虫磷	heptanophos	2.92	甲醇	0.58
263	苄草丹	prosulfocarb	0.18	甲醇	0.04
264	杀草净	dipropetryn	0.14	甲醇	0.03
265	禾草丹	thiobencarb	1.65	甲醇	0.33
266	三异丁基磷酸盐	tri-*iso*-butyl phosphate	1.79	甲醇	0.40
267	三正丁基磷酸盐	tri-*n*-butyl phosphate	0.19	甲醇	0.04
268	乙霉威	diethofencarb	1.00	甲醇	0.20
269	甲草胺	alachlor	3.70	甲醇	0.74
270	硫线磷	cadusafos	0.58	甲醇	0.12
271	吡唑草胺	metazachlor	0.49	甲醇	0.10
272	胺丙畏	propetamphos	27.00	甲醇	5.40
273	特丁硫磷[a]	terbufos	1 120.00	甲醇	224.00
274	硅氟唑	simeconazole	1.47	甲醇	0.29
275	三唑酮	triadimefon	3.94	甲醇	0.79
276	甲拌磷砜	phorate sulfone	21.00	甲醇	4.20
277	十三吗啉[a]	tridemorph	1.30	甲醇	0.26
278	苯噻酰草胺	mefenacet	1.10	甲醇	0.22
279	戊环唑	azaconazole	0.40	甲醇	0.08
280	苯线磷[a]	fenamiphos	0.10	甲醇	0.02
281	丁苯吗啉	fenpropimorph	0.09	甲醇	0.02
282	戊唑醇	tebuconazole	1.12	甲醇	0.22
283	异丙乐灵	isopropalin	15.00	甲醇	3.00
284	氟苯嘧啶醇[a]	nuarimol	0.50	甲醇	0.10
285	乙嘧酚磺酸酯	bupirimate	0.35	甲醇	0.07
286	保棉磷	azinphos-methyl	552.17	甲醇	110.43
287	丁基嘧啶磷	tebupirimfos	0.06	甲醇	0.01
288	稻丰散	phenthoate	46.18	甲醇	9.24
289	治螟磷	sulfotep	1.30	甲醇	0.26
290	硫丙磷	sulprofos	2.92	甲醇	0.58
291	苯硫磷	EPN	16.50	甲醇	3.30
292	甲基吡嗪磷	azamethiphos	0.40	甲醇	0.08
293	烯唑醇	diniconazole	0.67	甲醇	0.13
294	唑嘧磺草胺	flumetsulam	0.15	甲醇	0.03
295	稀禾啶	sethoxydim	44.80	甲醇	9.96

表 A 1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
296	纹枯脲	pencycuron	0.14	甲醇	0.03
297	灭蚜磷	mecarbam	9.80	甲醇	1.96
298	苯草酮	tralkoxydim	0.16	甲醇	0.03
299	马拉硫磷	malathion	2.82	甲醇	0.56
300	稗草畏	pyributicarb	0.17	甲醇	0.03
301	哒嗪硫磷	pyridaphenthion	0.44	甲醇	0.09
302	嘧啶磷	pirimiphos-ethyl	0.05	甲醇	0.01
303	硫双威[a]	thiodicarb	19.68	甲醇	3.94
304	吡唑硫磷	pyraclofos	0.50	甲醇	0.10
305	啶氧菌酯	picoxystrobin	4.22	甲醇	0.84
306	四氟醚唑	tetraconazole	0.86	甲醇	0.17
307	吡唑解草酯	mefenpyr-diethyl	6.28	甲醇	1.26
308	丙溴磷	profenefos	1.01	甲醇	0.20
309	百克敏	pyraclostrobin	0.25	甲醇	0.05
310	烯酰吗啉	dimethomorph	0.18	甲醇	0.04
311	噻嗯菊酯	kadethrin	1.66	甲醇	0.33
312	噻唑烟酸	thiazopyr	0.98	甲醇	0.20
313	甲基丙硫克百威	benfuracarb-methyl	8.19	甲醇	1.64
314	醚黄隆	cinosulfuron	0.56	甲醇	0.11
315	吡嘧磺隆	pyrazosulfuron-ethyl	3.42	甲醇	0.68
316	磺草胺唑	metosulam	2.20	甲醇	0.44
		E组			
317	4-氨基吡啶[a]	4-aminopyridine	0.43	甲醇	0.09
318	灭多威	methomyl	4.78	甲醇	0.96
319	咯喹酮[a]	pyroquilon	1.74	甲醇	0.35
320	麦穗灵	fuberidazole	0.95	甲醇	0.19
321	丁脒酰胺	isocarbamid	0.85	甲醇	0.17
322	丁酮威	butocarboxim	0.79	甲醇	0.16
323	杀虫脒	chlordimeform	0.67	甲醇	0.13
324	霜脲氰[a]	cymoxanil	27.80	甲醇	5.56
325	灭草敌	vernolate	0.13	甲醇	0.03
326	氯硫酰草胺[a]	chlorthiamid	4.41	甲醇	0.88
327	灭害威	aminocarb	8.21	甲醇	1.64
328	甲菌定[a]	dimethirimol	0.06	甲醇	0.01

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
329	氧乐果	omethoate	4.83	甲醇	0.97
330	乙氧呋喹[a]	ethoxyquin	1.76	甲醇	0.35
331	敌敌畏	dichlorvos	0.27	甲醇	0.05
332	涕灭威砜	aldicarb sulfone	10.70	甲醇	2.14
333	二氧威	dioxacarb	1.68	甲醇	0.34
334	苄腺嘌呤	benzyladenine	35.40	甲醇	7.08
335	甲基内吸磷[a]	demeton-*s*-methyl	2.65	甲醇	0.53
336	杀虫丹亚砜	ethiofencarb-sulfoxide	112.00	甲醇	22.40
337	杀螟腈[a]	cyanohos	5.06	甲醇	1.01
338	甲基乙拌磷	thiometon	289.00	甲醇	57.80
339	灭菌丹[a]	folpet	69.30	甲醇	13.86
340	呱草丹[a]	dimepiperate	1 890.00	甲醇	378.00
341	苯锈定	fenpropidin	0.09	甲醇	0.02
342	赛硫磷	amidithion	329.00	甲醇	65.80
343	甲咪唑烟酸	imazapic	2.95	甲醇	0.59
344	甲基对氧磷	paraoxon-ethyl	0.24	甲醇	0.05
345	4-十二烷基-2,6-二甲基吗啉	aldimorph	1.58	甲醇	0.32
346	乙烯菌核利	vinclozolin	1.27	甲醇	0.25
347	烯效唑	uniconazole	1.20	甲醇	0.24
348	啶斑肟	pyrifenox	0.13	甲醇	0.03
349	氯硫磷	chlorthion	66.80	甲醇	13.36
350	异氯磷	dicapthon	0.12	甲醇	0.02
351	四螨嗪	clofentezine	0.38	甲醇	0.08
352	氟草敏	norflurazon	0.13	甲醇	0.03
353	野麦畏	triallate	23.10	甲醇	4.62
354	苯氧喹啉	quinoxyphen	76.70	甲醇	15.34
355	倍硫磷砜	fenthion sulfone	8.73	甲醇	1.75
356	氟咯草酮	flurochloridone	0.65	甲醇	0.13
357	酞酸苯甲基丁酯	phthalic acid, benzyl butyl ester	316.00	甲醇	63.20
358	氯唑磷	isazofos	0.09	甲醇	0.02
359	除线磷	dichlofenthion	15.10	甲醇	3.02
360	蚜灭多砜	vamidothion sulfone	238.00	甲醇	47.60
361	特丁硫磷砜	terbufos sulfone	44.30	甲醇	8.86
362	敌乐胺[a]	dinitramine	0.90	甲苯	0.18

表 A 1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
363	氰霜唑[a]	cyazofamid	2.25	乙腈	0.45
364	毒壤磷	trichloronat	33.40	甲醇	6.68
365	苄呋菊酯	resmethrin-2	0.15	甲醇	0.03
366	啶酰菌胺	boscalid	2.38	甲醇	0.48
367	甲磺乐灵	nitralin	17.20	甲醇	3.44
368	甲氰菊酯	fenpropathrin	122.50	甲醇	24.50
369	噻螨酮	hexythiazox	11.80	甲醇	2.36
370	双氟磺草胺[a]	florasulam	8.70	乙腈	1.74
371	苯螨特	benzoximate	9.83	甲醇	1.97
372	新燕灵	benzoylprop-ethyl	154.00	甲醇	30.80
373	呋草唑	pyrimidifen	7.00	甲醇	1.40
374	呋线威	furathiocarb	0.96	甲醇	0.19
375	反式氯菊酯	*trans*-permethin	2.40	甲醇	0.48
376	醚菊酯	etofenprox	114.00	甲醇	228.00
377	苄草唑[a]	pyrazoxyfen	0.16	甲醇	0.03
378	嘧唑螨[a]	flubenzimine	3.89	甲醇	0.78
379	Z-氯氰菊酯[a]	*zeta* cypermethrin	0.34	甲醇	0.07
380	氟吡乙禾灵	haloxyfop-2-ethoxyethyl	1.25	甲醇	0.25
381	S-氰戊菊酯[a]	esfenvalerate	208.00	甲醇	41.60
382	乙羧氟草醚[a]	fluoroglycofen-ethyl	2.50	甲醇	0.50
F组					
383	丙烯酰胺[a]	acrylamide	8.90	甲醇	1.78
384	叔丁基胺[a]	*tert*-butylamine	19.48	甲醇	3.90
385	噁霉灵	hymexazol	112.07	甲醇	22.41
386	邻苯二甲酰亚胺	phthalimide	21.50	甲醇	4.30
387	甲氟磷[a]	dimefox	34.10	甲醇	6.82
388	速灭威	metolcarb	12.70	甲醇	2.54
389	二苯胺	diphenylamin	0.21	甲醇	0.04
390	萘乙酸基乙酰亚胺	1-naphthy acetamide	0.41	甲醇	0.08
391	乙基-阿特拉津[a]	atrazine-desethyl	0.31	甲醇	0.06
392	2,6-二氯苯甲酰胺	2,6-dichlorobenzamide	2.25	甲醇	0.45
393	涕灭威	aldicarb	130.50	甲醇	26.10
394	酞酸二甲酯[a]	dimethyl phthalate	6.60	甲醇	1.32
395	杀虫脒盐酸盐	chlordimeform hydrochloride	1.32	甲醇	0.26

表 A 1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
396	西玛通	simeton	0.55	甲醇	0.11
397	呋虫胺	dinotefuran	5.09	甲醇	1.02
398	克草敌	pebulate	1.70	甲醇	0.34
399	活化酯	acibenzolar-*s*-methyl	1.54	甲醇	0.31
400	蔬果磷	dioxabenzofos	6.92	甲醇	1.38
401	杀线威	oxamyl	274.03	甲醇	54.81
402	赛苯隆[a]	thidiazuron pestanal	0.15	甲醇	0.03
403	甲基苯噻隆	methabenzthiazuron	0.04	甲醇	0.01
404	丁酮砜威	butoxycarboxim	13.30	甲醇	2.66
405	砜吸磷	demeton-*s*-methyl sulfoxide	1.96	甲醇	0.39
406	久效威砜[a]	thiofanox sulfone	12.04	甲醇	2.41
407	硫环磷	phosfolan	0.24	环己烷	0.05
408	硫赶内吸磷[a]	demeton-*s*	40.00	甲醇	8.00
409	氧倍硫磷	fenthion oxon	0.59	甲醇	0.12
410	萘丙胺	napropamide	0.64	甲醇	0.13
411	杀螟硫磷	fenitrothion	13.40	甲醇	2.68
412	酞酸二丁酯[a]	phthalic acid, dibutyl ester	19.80	甲醇	3.96
413	丙草胺	metolachlor	0.20	甲醇	0.04
414	腐霉利	procymidone	43.30	甲醇	8.66
415	蚜灭磷[a]	vamidothion	2.28	甲醇	0.46
416	枯草隆[a]	chloroxuron	0.22	甲醇	0.04
417	威菌磷	triamiphos	2.30	甲醇	0.46
418	右旋炔丙菊酯[a]	prallethrin	0.65	甲醇	0.13
419	可灭隆	cumyluron	0.66	甲醇	0.13
420	甲氧咪草烟[a]	imazamox	0.90	甲醇	0.18
421	杀鼠灵[a]	warfarin	1.34	甲醇	0.27
422	亚胺硫磷	phosmet	8.86	甲醇	1.77
423	皮蝇磷	ronnel	6.57	甲醇	1.31
424	酞酸二环己酯[a]	phthalic acid, biscyclohexyl ester	0.34	甲醇	0.07
425	环丙酰胺[a]	carpropamid	2.60	甲醇	0.52
426	吡螨胺	tebufenpyrad	0.13	甲醇	0.03
427	虫酰肼[a]	tebufenozide	13.90	甲醇	2.78
428	虫螨磷	chlorthiophos	15.90	甲醇	3.18
429	毒壤磷	dialifos	78.50	甲醇	15.70

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
430	吲哚酮草酯[a]	cinidon-ethyl	7.29	甲醇	1.46
431	鱼藤酮	rotenone	1.16	甲醇	0.23
432	亚胺唑	imibenconazole	5.13	甲醇	1.03
433	噁草酸	propaquiafop	0.62	甲醇	0.12
434	2,3,4,5-四氯苯胺[a]	2,3,4,5-tetrachloroaniline	26.80	甲醇	5.36
435	吡草酮	benzofenap	0.04	甲醇	0.01
436	地乐酯[a]	dinoseb acetate	20.64	甲醇	4.13
437	异丙草胺	propisochlor	0.40	甲醇	0.08
438	氟硅菊酯[a]	silafluofen	304.00	甲醇	60.8
439	乙氧苯草胺	etobenzanid	0.40	甲醇	0.08
440	四唑酰草胺	fentrazamide	6.20	甲醇	1.24
441	五氯苯胺[a]	pentachloroaniline	1.87	甲醇	0.37
442	苯醚氰菊酯	cyphenothrin	8.40	甲醇	1.68
443	狄氏剂[a]	dieldrin	80.80	甲醇	16.16
444	乙螨唑[a]	etoxazole	0.44	甲醇	0.09
445	马拉氧磷[a]	malaoxon	2.34	甲醇	0.47
446	多果定[a]	dodine	4.00	甲醇	0.80
G组					
447	茅草枯[a]	dalapon	115.37	甲醇	23.07
448	四氟丙酸[a]	flupropanate	11.49	甲醇	2.30
449	2,6-二氟苯甲酸[a]	2,6-difluorobenzoic acid	852.04	甲醇	170.41
450	三氯乙酸钠[a]	trichloroacetic acid sodium salt	140.79	甲醇	28.16
451	2-苯基苯酚	2-phenylphenol	84.94	甲醇	16.99
452	3-苯基苯酚	3-phenylphenol	2.00	甲醇	0.40
453	二氯吡啶酸[a]	clopyralld	140.00	甲醇	28.00
454	4,6-二硝基邻甲酚	DNOC	1.30	甲醇	0.26
455	调果酸	cloprop	5.70	甲醇	1.14
456	氯硝胺	dicloran	24.28	甲醇	4.86
457	氯苯胺灵	chlorpropham	7.88	甲醇	1.58
458	2-甲-4-氯丙酸[a]	mecoprop	2.45	甲醇	0.49
459	特草定	terbacil	0.44	甲醇	0.09
460	麦草畏[a]	dicamba	632.96	甲醇	126.59
461	二甲四氯丁酸	MCPB	7.09	甲醇	1.42
462	灭草松	bentazone	0.52	甲醇	0.10

表 A.1（续）

序号	中文名称	英文名称	检出限/(μg/kg)	溶剂	混合标准溶液浓度/(μg/mL)
463	地乐酚	dinoseb	0.20	甲醇	0.04
464	草消酚	dinoterb	0.12	甲醇	0.02
465	氯吡脲	forchlorfenuron	5.70	甲醇	1.14
466	咯菌腈	fludioxonil	31.08	甲醇	6.22
467	氟草烟	fluroxypyr	96.03	甲醇	19.21
468	杀螨醇[a]	chlorfenethol	82.15	甲醇	16.43
469	溴苯腈	bromoxynil	0.90	甲醇	0.18
470	灭幼脲	chlorobenzuron	10.20	甲醇	2.04
471	氯霉素[a]	chloramphenicolum	1.94	甲醇	0.39
472	禾草灭[a]	alloxydim-sodium	0.10	甲醇	0.02
473	乙酰磺胺对硝基苯[a]	sulfanitran	1.52	甲醇	0.30
474	甲基磺草酮[a]	mesotrion	1 150.28	甲醇	230.06
475	安磺灵[a]	oryzalin	2.46	甲醇	0.49
476	三氟羧草醚[a]	acifluorfen	59.00	甲醇	11.80
477	碘苯腈[a]	ioxynil	0.31	甲醇	0.06
478	噁唑菌酮	famoxadone	22.64	甲醇	4.53
479	吡氟酰草胺	diflufenican	14.14	甲醇	2.83
480	乙虫清[a]	ethiprole	19.93	甲醇	3.99
481	磺菌胺	flusulfamide	0.21	甲醇	0.04
482	环丙嘧磺隆[a]	cyclosulfamuron	171.84	甲醇	34.37
483	氟磺胺草醚[a]	fomesafen	1.01	甲醇	0.20
484	碘甲磺隆钠[a]	iodosulfuron-methyl sodium	10.60	甲醇	2.12
485	克来范	kelevan	964.00	甲醇	964.00
486	甲基碘磺隆	iodosulfuron-methyl	33.30	甲醇	6.66

[a] 为定性鉴别的农药及相关化学品。

附 录 B
（资料性附录）
486 种农药及相关化学品监测离子对、碰撞气能量、源内碎裂电压和保留时间

486 种农药及相关化学品监测离子对、碰撞气能量、源内碎裂电压和保留时间见表 B.1。

表 B.1 486 种农药及相关化学品监测离子对、碰撞气能量、源内碎裂电压和保留时间

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
A 组							
1	苯胺灵	propham	8.80	180.1/138.0	180.1/138.0;180.1/120.0	80	5;15
2	异丙威	isoprocarb	8.38	194.1/95.0	194.1/95.0;194.1/137.1	80	20;5
3	3,4,5-混杀威	3,4,5-trimethacarb	8.38	194.2/137.2	194.2/137.2;194.2/122.2	80	5;20
4	环莠隆	cycluron	7.73	199.4/72.0	199.4/72.0;199.4/89.0	120	25;15
5	甲萘威	carbaryl	7.45	202.1/145.1	202.1/145.1;202.1/127.1	80	10;5
6	毒草胺	propachlor	8.75	212.1/170.1	212.1/170.1;212.1/94.1	100	10;30
7	吡咪唑	rabenzazole	7.54	213.2/172.0	213.2/172.0;213.2/118.0	120	25;25
8	西草净	simetryn	5.32	214.2/124.1	214.2/124.1;214.2/96.1	120	20;25
9	绿谷隆	monolinuron	7.82	215.1/126.0	215.1/126.0;215.1/148.1	100	15;10
10	速灭磷	mevinphos	5.17	225.0/127.0	225.0/127.0;225.0/193.0	80	15;1
11	叠氮津	aziprotryne	10.40	226.1/156.1	226.1/156.1;226.1/198.1	100	10;10
12	密草通	secbumeton	5.56	226.2/170.1	226.2/170.1;226.2/142.1	120	20;25
13	嘧菌磺胺	cyprodinil	9.24	226.0/93.0	226.0/93.0;226.0/ 108.0	120	40;30
14	播土隆	buturon	9.38	237.1/84.1	237.1/84.1;237.1/126.1	120	30;15
15	双酰草胺	carbetamide	5.80	237.1/192.1	237.1/192.1;237.1/118.1	80	5;10
16	抗蚜威	pirimicarb	4.20	239.2/72.0	239.2/72.0;239.2/182.2	120	20;15
17	异噁草松	clomazone	9.36	240.1/125.0	240.1/125.0;240.1/89.1	100	20;50
18	氰草津	cyanazine	6.38	241.1/214.1	241.1/214.1;241.1/174.0	120	15;15
19	扑草净	prometryne	7.66	242.2/158.1	242.2/158.1;242.2/200.2	120	20;20
20	对氧磷	paraoxon methyl	6.20	248.0/202.1	248.0/202.1;248.0/90.0	120	20;30
21	4,4′-二氯二苯甲酮	4,4′-dichlorobenzo-phenone	12.00	251.1/111.1	251.1/111.1;251.1/139.0	100	35;20
22	噻虫啉	thiacloprid	5.65	253.1/126.1	253.1/126.1;253.1/186.1	120	20;10
23	吡虫啉	imidacloprid	4.73	256.1/209.1	256.1/209.1;256.1/175.1	80	10;10
24	磺噻隆	ethidimuron	4.62	265.1/208.1	265.1/208.1;265.1/162.1	80	10;25
25	丁嗪草酮	isomethiozin	14.20	269.1/200.0	269.1/200.0;269.1/172.1	120	15;25
26	燕麦敌	diallate	17.40	270.0/86.0	270.0/86.0;270.0/109.0	100	15;35

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
27	乙草胺	acetochlor	13.70	270.2/224.0	270.2/224.0;270.2/148.2	80	5;20
28	烯啶虫胺	nitenpyram	3.87	271.1/224.1	271.1/224.1;271.1/237.1	100	15;15
29	盖草津	methoprotryne	6.47	272.2/198.2	272.2/198.2;272.2/170.1	140	25;30
30	二甲酚草胺	dimethenamid	10.50	276.1/244.1	276.1/244.1;276.1/168.1	120	10;15
31	特草灵	terrbucarb	16.50	278.2/166.1	278.2/166.1;278.2/109.0	80	15;30
32	戊菌唑	penconazole	13.70	284.1/70.0	284.1/70.0;284.1/159.0	120	15;20
33	腈菌唑	myclobutanil	12.10	289.1/125.0	289.1/125.0;289.1/70.0	120	20;15
34	咪唑乙烟酸	imazethapyr	5.60	290.2/177.1	290.2/177.1;290.2/245.2	120	25;20
35	多效唑	paclobutrazol	10.32	294.2/70.0	294.2/70.0;294.2/125.0	100	15;25
36	倍硫磷亚砜	fenthion sulfoxide	7.31	295.1/109.0	295.1/109.0;295.1/280.0	140	35;20
37	三唑醇	triadimenol	10.15	296.1/70.0	296.1/70.0;296.1/99.1	80	10;10
38	仲丁灵	butralin	18.60	296.1/240.1	296.1/240.1;296.1/222.1	100	10;20
39	螺噁茂胺	spiroxamine	9.90	298.2/144.2	298.2/144.2;298.2/100.1	120	20;35
40	甲基立枯磷	tolclofos methyl	16.60	301.2/269.0	301.2 /269.0;301.2/125.2	120	15;20
41	甜菜胺	desmedipham	10.65	301.2/182.1	301.2/182.1;301.2/136.1	80	5;20
42	杀扑磷	methidathion	10.69	303.0/145.1	303.0/145.1;303.0/85.0	80	5;10
43	烯丙菊酯	allethrin	18.10	303.2/135.1	303.2/135.1;303.2/123.2	60	10;20
44	二嗪磷	diazinon	15.95	305.0/169.1	305.0/169.1;305.0/153.2	160	20;20
45	敌瘟磷	edifenphos	3.00	311.1/283.0	311.1/283.0;311.1/109.0	100	10;35
46	丙草胺	pretilachlor	17.15	312.1/252.1	312.1/252.1;312.1/176.2	100	15;30
47	氟硅唑	flusilazole	13.60	316.1/247.1	316.1/247.1;316.1/165.1	120	15;20
48	丙森锌	iprovalicarb	12.00	321.1/119.0	321.1/119.0;321.1/203.2	100	25;5
49	麦锈灵	benodanil	9.80	324.1/203.0	324.1/203.0;324.1/231.0	120	25;40
50	氟酰胺	flutolanil	14.00	324.2/262.1	324.2/262.1;324.2/282.1	120	20;10
51	氨磺磷	famphur	10.30	326.0/217.0	326.0/217;326.0/281.0	100	20;10
52	苯霜灵	benalyxyl	15.19	326.2/148.1	326.2/148.1;326.2/294.0	120	1;5
53	苄氯三唑醇	diclobutrazole	12.20	328.0/159.0	328.0/159.0;328.0/70.0	120	35;30
54	乙环唑	etaconazole	11.75	328.1/159.1	328.1/159.1;328.1/205.1	80	25;20
55	氯苯嘧啶醇	fenarimol	12.20	331.0/268.1	331.0/268.1;331.0/81.0	120	25;30
56	胺菊酯	tetramethirn	17.85	332.2/164.1	332.2/164.1;332.2/135.1	100	15;15
57	解草酯	cloquintocet mexyl	17.36	336.1/238.1	336.1/238.1;336.1/192.1	120	15;20
58	联苯三唑醇	bitertanol	13.90	338.2/70.0	338.2/70.0;338.2/269.2	60	5;1
59	吡喃草酮	tepraloxydim	12.73	342.2/250.2	342.2/250.2;342.2/166.1	120	10;25

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
60	甲基硫菌灵	thiophanate methyl	6.28	343.1/151.1	343.1/151.1;343.1/311.1	120	20;10
61	益棉磷	azinphos ethyl	14.00	346.0/233.0	346.0/233.0;346.0/261.1	120	10;5
62	杀铃脲	triflumuron	15.59	359.0/156.1	359.0/156.1;359.0/139.0	120	15;30
63	异噁氟草	isoxaflutole	12.00	360.0/251.1	360.0/251.1;360.0/220.1	120	10;45
64	莎稗磷	anilofos	17.35	367.9/145.2	367.9/145.2;367.9/205.0	120	20;5
65	硫菌灵	thiophanat ethyl	9.32	371.1/151.1	371.1/151.1;371.1/325.0	120	15;10
66	喹禾灵	quizalofop-ethyl	17.40	373.0/299.1	373.0/299.1;373.0/91.0	140	15;30
67	精氟吡甲禾灵	haloxyfop-methyl	17.11	376.0/316.0	376.0/316.0;376.0/288.0	120	15;20
68	吡氟禾草灵	fluazifop butyl	18.24	384.1/282.1	384.1/282.1;384.1/328.1	120	20;15
69	乙基溴硫磷	bromophos-ethyl	19.15	393.0/337.0	393.0/337.0;393.0/162.1	100	20;30
70	地散磷	bensulide	16.18	398.0/158.1	398.0/158.1;398.0/314.0	80	20;5
71	醚苯磺隆	triasulfuron	7.27	402.1/167.1	402.1/167.1;402.1/141.1	120	15;20
72	溴苯烯磷	bromfenvinfos	15.22	402.9/170.0	402.9/170.0;402.9/127.0	100	35;20
73	嘧菌酯	azoxystrobin	12.50	404.0/372.0	404.0/372.0;404.0/344.1	120	10;15
74	茚虫威	indoxacarb	17.43	528.0/150.0	528.0/150.0;528.0/218.0	120	20;20
B组							
75	棉隆	dazomet	3.80	163.1/120.0	163.1/120.0;163.1/77.0	80	10;35
76	烟碱	nicotine	0.74	163.2/130.1	163.2/130.1;163.2/117.1	100	25;30
77	非草隆	fenuron	4.50	165.1/72.0	165.1/72.0;165.1/120.0	120	15;15
78	鼠立克	crimidine	4.47	172.1/107.1	172.1/107.1;172.1/136.2	120	30;25
79	乙酰甲胺磷	acephate	0.74	184.1/143.0	184.1/143.0;184.1/95.0	60	5;20
80	禾草敌	molinate	11.30	188.1/126.1	188.1/126.1;188.1/83.0	120	10;15
81	多菌灵	carbendazim	3.30	192.1/160.1	192.1/160.1;192.1/132.1	80	15;20
82	6-氯-4-羟基-3-苯基哒嗪	6-chloro-4-hydroxy-3-phenyl-pyridazin	12.86	207.1/77.0	207.1/77.0;207.1/104.0	120	25;35
83	残杀威	propoxur	6.79	210.1/111.0	210.1/111.0;210.1/168.1	80	10;5
84	异唑隆	isouron	6.11	212.2/167.1	212.2/167.1;212.2/72.0	120	15;25
85	绿麦隆	chlorotoluron	7.23	213.1/72.0	213.1/72.0;213.1/140.1	80	25;25
86	久效威	thiofanox	1.00	241.0/184.0	241.0/184.0;241.0/ 57.1	120	15;5
87	氯草灵	chlorbufam	11.67	224.1/172.1	224.1/172.1;224.1/154.1	120	5;15
88	噁虫威	bendiocarb	6.87	224.1/109.0	224.1/109.0;224.1/167.1	80	5;10
89	扑灭津	propazine	9.37	229.9/146.1	229.9/146.1;229.9/188.1	120	20;15
90	特丁津	terbuthylazine	10.15	230.1/174.1	230.1/174.1;230.1/132.0	120	15;20

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
91	敌草隆	diuron	7.82	233.1/72.0	233.1/72.0;233.1/160.1	120	20;20
92	氯甲硫磷	chlormephos	13.70	235.0/125.0	235.0/125.0;235.0/75.0	100	10;10
93	噻虫胺	clothianidin	4.40	250.2/169.1	250.2/169.1;250.2/132.0	80	10;15
94	拿草特	pronamide	11.81	256.1/190.1	256.1/190.1;256.1/173.0	80	10;20
95	二甲草胺	dimethachloro	8.96	256.1/224.2	256.1/224.2;256.1/148.2	120	10;20
96	溴谷隆	methobromuron	8.25	259.0/170.1	259.0/170.1;259.0/148.0	80	15;15
97	甲拌磷	phorate	16.55	261.0/75.0	261.0/75.0;261.0/199.0	80	10;5
98	苯草醚	aclonifen	14.70	265.1/248.0	265.1/248.0;265.1/193.0	120	15;15
99	地安磷	mephosfolan	5.97	270.1/140.1	270.1/140.1;270.1/168.1	100	25;15
100	脱苯甲基亚胺唑	imibenzonazole-des-benzyl	5.96	271.0/174.0	271.0/174.0;271.0/70.0	120	25;25
101	草不隆	neburon	14.17	275.1/57.0	275.1/57.0;275.1/88.1	120	20;15
102	精甲霜灵	mefenoxam	7.92	280.1/192.1	280.1/192.1;280.1/220.0	100	15;10
103	发硫磷	prothoate	4.78	286.1/227.1	286.1/227.1;286.1/199.0	100	5;15
104	乙氧呋草黄	ethofume sate	12.86	287.0/121.0	287.0/121.0;287.0/161.0	80	10;20
105	异稻瘟净	iprobenfos	13.50	289.1/91.0	289.1/91.0;289.1/205.1	80	25;5
106	特普	TEPP	5.64	291.1/179.0	291.1/179.0;291.1/99.0	100	20;35
107	环丙唑醇	cyproconazole	10.59	292.1/70.0	292.1/70.0;292.1/125.0	120	15;15
108	噻虫嗪	thiamethoxam	4.05	292.1/211.2	292.1/211.2;292.1/181.1	80	10;20
109	育畜磷	crufomate	11.56	292.1/236.0	292.1/236.0;292.1/108.1	120	20;30
110	乙嘧硫磷	etrimfos	6.16	293.1/125.0	293.1/125.0;293.1/265.1	80	20;15
111	杀鼠醚	coumatetralyl	4.68	293.2/107.0	293.2/107.0;293.2/175.1	140	35;25
112	赛灭磷	cythioate	6.59	298.0/217.1	298/217.1;298.0/125.0	100	15;25
113	磷胺	phosphamidon	5.77	300.1/174.1	300.1/174.1;300.1/127.0	120	10;20
114	甜菜宁	phenmedipham	10.69	301.1/168.1	301.1/168.1;301.1/136.0	80	5;20
115	环酰菌胺	fenhexamid	12.33	302.0/97.1	302.0/97.1;302.0/55.0	80	30;25
116	粉唑醇	flutriafol	7.55	302.1/70.0	302.1/70.0;302.1/123.0	120	15;20
117	抑菌丙胺酯	furalaxyl	10.77	302.2/242.2	302.2/242.2;302.2/270.2	100	15;5
118	生物丙烯菊酯	bioallethrin	18.00	303.1/135.1	303.1/135.1;303.1/107.0	80	10;20
119	苯腈磷	cyanofenphos	16.44	304.0/157.0	304.0/157.0;304.0/276.0	100	20;10
120	甲基嘧啶磷	pirimiphos methyl	15.50	306.2/164.0	306.2/164.0;306.2/108.1	120	20;30
121	噻嗪酮	buprofezin	13.34	306.2/201.0	306.2/201.0;306.2/116.1	120	15;10
122	乙拌磷砜	disulfoton sulfone	9.79	307.0/97.0	307.0/97.0;307.0/125.0	100	30;10

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
123	喹螨醚	fenazaquin	18.80	307.2/57.1	307.2/57.1;307.2/161.2	120	20;15
124	三唑磷	triazophos	13.80	314.1/162.1	314.1/162.1;314.1/286.0	120	20;10
125	脱叶磷	DEF	19.21	315.1/169.0	315.1/169.0;315.1/113.0	100	10;20
126	环酯草醚	pyriftalid	12.00	319.0/139.1	319.0/139.1;319.0/179.0	140	35;35
127	叶菌唑	metconazole	13.77	320.2/70.0	320.2/70.0;320.2/125.0	140	35;55
128	蚊蝇醚	pyriproxyfen	18.00	322.1/96.0	322.1/96.0;322.1/227.1	120	15;10
129	噻草酮	cycloxydim	17.00	326.2/280.2	326.2/280.2;326.2/180.2	120	10;15
130	异噁酰草胺	isoxaben	13.21	333.1/165.0	333.1/165.0;333.1/150.1	120	15;50
131	呋草酮	flurtamone	11.25	334.1/247.1	334.1/247.1;334.1/303.0	120	30;20
132	氟乐灵	trifluralin	12.86	336.0/138.9	336.0/138.9;336.0/103.0	120	20;45
133	甲基麦草氟异丙酯	flamprop methyl	13.20	336.1/105.1	336.1/105.1;336.1/304.0	80	20;5
134	生物苄呋菊酯	bioresmethrin	19.39	339.2/171.1	339.2/171.1;339.2/143.1	100	15;25
135	丙环唑	propiconazole	14.29	342.1/159.1	342.1/159.1;342.1/69.0	120	20;20
136	毒死蜱	chlorpyrifos	18.29	350.0/198.0	350.0/198.0;350.0/79.0	100	20;35
137	氯乙氟灵	fluchloralin	17.68	356.0/186.0	356.0 /314.1;356.0/63.0	80	15;30
138	烯草酮	clethodim	17.60	360.1/164.1	360.1/164.1;360.1/268.0	120	20;10
139	麦草氟异丙酯	flamprop isopropyl	16.00	364.1/105.1	364.1/105.1;364.1/304.1	80	20;5
140	杀虫畏	tetrachlorvinphos	13.70	365.0/127.0	365.0/127.0;365/239	120	15;15
141	炔螨特	propargite	18.77	368.1/231	368.1/231;368.1/175.1	100	5;15
142	糠菌唑	bromuconazole	12.70	376.0/159.0	376.0/159.0;376/70	80	20;20
143	氟吡酰草胺	picolinafen	17.74	377.0/238.0	377.0/238.0;377/359	120	20;20
144	氟噻乙草酯	fluthiacet methyl	14.80	404/215	404/215;404.0/274.0	180	50;10
145	肟菌酯	trifloxystrobin	17.44	409.3/186.1	409.3/186.1;409.3/206.2	120	15;10
146	氯嘧磺隆	chlorimuron ethyl	11.59	415.0/186.1	415.0/186.1;415/213.1	120	10;10
C组							
147	甲胺磷	methamidophos	0.74	142.1/94.0	142.1/94.0;142.1/125	80.00	15;10
148	茵草敌	EPTC	14.00	190.2/86	190.2/86;190.2/128.1	100.00	10;10
149	避蚊胺	diethyltoluamide	7.70	192.2/119.0	192.2/119.0;192.2/91	100.00	15;30
150	灭草隆	monuron	5.94	199/72	199/72;199.0/126.0	120.00	15;15
151	嘧霉胺	pyrimethanil	6.70	200.2/107.0	200.2/107.0;200.2/183.1	120.00	25;25
152	黑穗胺	fenfuram	7.48	202.1/109.0	202.1/109.0;202.1/83	120.00	20;20
153	灭藻醌	quinoclamine	6.09	208.1/105.0	208.1/105.0;208.1/154.1	120.00	30;20

表 B 1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
154	仲丁威	fenobucarb	9.92	208.2/95.0	208.2/95.0;208.2/152.1	80.00	10;5
155	敌稗	propanil	9.09	218.0/162.1	218.0/162.1;218/127	120.00	15;20
156	克百威	carbofuran	6.81	222.3/165.1	222.3/165.1;222.3/123.1	120.00	5;20
157	啶虫脒	acetamiprid	4.86	223.2/126.0	223.2/126.0;223.2/56	120.00	15;15
158	嘧菌胺	mepanipyrim	12.23	224.2/77.0	224.2/77.0;224.2/106	120.00	30;25
159	扑灭通	prometon	5.40	226.2/142	226.2/142;226.2/184.1	120.00	20;20
160	甲硫威	methiocarb	4.51	226.2/121.1	226.2/121.1;226.2/169.1	80.00	10;5
161	甲氧隆	metoxuron	5.59	229.1/72.0	229.1/72.0;229.1/156.1	120.00	20;20
162	乐果	dimethoate	4.88	230.0/199.0	230.0/199.0;230/171	80.00	5;10
163	呋菌胺	methfuroxam	10.42	230.2/137.1	230.2/137.1;230.2/111.1	120.00	20;15
164	伏草隆	fluometuron	7.27	233.1/72.0	233.1/72.0;233.1/160	120.00	20;20
165	百治磷	dicrotophos	3.97	238.1/112.1	238.1/112.1;238.1/193	80.00	10;5
166	庚酰草胺	monalide	14.50	240.1/85.1	240.1/85.1;240.1/57	120.00	15;35
167	双苯酰草胺	diphenamid	9.00	240.1/134.1	240.1/134.1;240.1/167.1	120.00	20;25
168	灭线磷	ethoprophos	11.98	243.1/173	243.1/173;243.1 /215.0	120.00	10;10
169	地虫硫磷	fonofos	16.10	247.1/109.0	247.1/109.0;247.1/137.1	80.00	15;5
170	土菌灵	etridiazol	17.20	247.1/183.1	247.1/183.1;247.1/132.0	120.00	15;15
171	环嗪酮	hexazinone	5.66	253.2/171.1	253.2/171.1;253.2/71	120.00	15;20
172	阔草净	dimethametryn	8.79	256.2/186.1	256.2/186.1;256.2/96.1	140.00	20;35
173	敌百虫	trichlorphon	4.21	257/221	257/221;257.0/109.0	120.00	10;20
174	内吸磷	demeton($o+s$)	8.59	259.1/89.0	259.1/89.0;259.1/61	60.00	10;35
175	解草酮	benoxacor	10.83	260.0/149.2	260.0/149.2;260/134.1	120.00	15;20
176	除草定	bromacil	5.78	261.0/205.0	261.0/205.0;261/188	80.00	10;20
177	甲拌磷亚砜	phorate sulfoxide	7.34	277/143	277/143;277/199	100.00	15;5
178	溴莠敏	brompyrazon	4.69	266.0/92.0	266.0/92.0;266/104	120.00	30;30
179	氧化萎锈灵	oxycarboxin	5.38	268.0/175.0	268.0/175.0;268/147.1	100.00	10;20
180	灭锈胺	mepronil	13.15	270.2/119.1	270.2/119.1;270.2/228.2	100.00	30;15
181	乙拌磷	disulfoton	16.80	275.0/89.0	275.0/89.0;275/61	80.00	5;20
182	倍硫磷	fenthion	15.54	279.0/169.1	279.0/169.1;279/247	120.00	15;10
183	甲霜灵	metalaxyl	7.75	280.1/192.2	280.1/192.2;280.1/220.2	120.00	15;20
184	甲呋酰胺	ofurace	7.65	282.1/160.2	282.1/160.2;282.1/254.2	120.00	20.1
185	吗菌灵	dodemorph	8.45	282.3/116.1	282.3/116.1;282.3/98.1	120.00	20;30
186	甲基咪草酯	imazamethabenz-methyl	5.33	289.1/229	289.1/229;289.1/86.0	120.00	15;25

表 B 1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
187	乙拌磷亚砜	disulfoton-sulfoxide	7.38	291.0/185	291.0/185;291/157	80.00	10;20
188	稻瘟灵	isoprothiolane	13.17	291.1/189.1	291.1/189.1;291.1/231.1	80.00	20;5
189	抑霉唑	imazalil	6.86	297.0/159.0	297.0/159.0;297/255	120.00	20;20
190	辛硫磷	phoxim	16.80	299.0/77.0	299.0/77.0;299/129	80.00	20;10
191	喹硫磷	quinalphos	14.80	299.1/147.1	299.1/147.1;299.1/163.1	120.00	20;20
192	灭菌磷	ditalimfos	13.53	300/148.1	300/148.1;300.0/244	80.00	15;10
193	苯氧威	fenoxycarb	18.10	362.1 /288.0	362.1 /288.0;362.1/244	120.00	20;20
194	嘧啶磷	pyrimitate	14.00	306.1/170.2	306.1/170.2;306.1/154.2	120.00	20;20
195	丰索磷	fensulfothin	8.55	309.0/157.1	309.0/157.1;309/253	120.00	25;15
196	氯咯草酮	fluorochloridone	13.80	312.1/292.1	312.1/292.1;312.1/89	100.00	25;25
197	丁草胺	butachlor	18.00	312.2/238.1	312.2/238.1;312.2/162	80.00	10;20
198	亚胺菌	kresoxim-methyl	15.20	314.1/267	314.1/267;314.1/206	80.00	5;5
199	戊叉菌唑	triticonazole	10.55	318.2/70.0	318.2/70.0;318.2/125.1	120.00	15;35
200	苯线磷亚砜	fenamiphos sulfoxide	5.87	320.1/171.1	320.1/171.1;320.1/292.1	140.00	25;15
201	噻吩草胺	thenylchlor	14.00	324.1/127.0	324.1/127.0;324.1/59	80.00	10;45
202	氰菌胺	fenoxanil	18.81	329.1/302.0	329.1/302.0;329.1/189.1	80.00	5;30
203	杀草吡啶	fluridone	10.30	330.1/309.1	330.1/309.1;330.1/259.2	160.00	40;55
204	氟环唑	epoxiconazole	18.81	330.1/141.1	330.1/141.1;330.1/121.1	120.00	20;20
205	氯辛硫磷	chlorphoxim	17.15	333.0/125.0	333.0/125.0;333/163.1	80.00	5;5
206	苯线磷砜	fenamiphos sulfone	6.63	336.1/188.2	336.1/188.2;336.1/266.2	120.00	30;20
207	腈苯唑	fenbuconazole	13.40	337.1/70	337.1/70;337.1/125.0	120.00	20;20
208	异柳磷	isofenphos	17.25	346.1/217.0	346.1/217.0;346.1/245	80.00	20;10
209	苯醚菊酯	phenothrin	19.70	351.1/183.2	351.1/183.2;351.1/237	100.00	15;5
210	呱草磷	piperophos	17.00	354.1/171	354.1/171;354.1/143.0	100.00	20;30
211	增效醚	piperonyl butoxide	17.75	356.2/177.1	356.2/177.1;356.2/119	100.00	10;35
212	乙氧氟草醚	oxyflurofen	18.00	362.0/316.1	362.0/316.1;362/237.1	120.00	10;25
213	蝇毒磷	coumaphos	16.42	363.1/227.2	363.1/227.2;363.1/307.1	120.00	20;15
214	氟噻草胺	flufenacet	14.00	364.0/194.0	364.0/194.0;364/152	80.00	5;10
215	伏杀硫磷	phosalone	16.79	368.1/182.0	368.1/182.0;368.1/322	80.00	10;5
216	甲氧虫酰肼	methoxyfenozide	13.41	313/149	313/149;313/91	100.00	10;35
217	咪鲜胺	prochloraz	11.79	376.1/308.0	376.1/308.0;376.1/266	80.00	10;10
218	丙硫特普	aspon	19.22	379.1/115.0	379.1/115.0;379.1/210	80.00	30;15
219	乙硫磷	ethion	18.46	385.0/199.1	385.0/199.1;385/171	80.00	5;15

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
220	杀螨隆	diafenthiuron	18.90	385.0/329.2	385.0/329.2;385.0/278.2	140.00	15;35
221	噻吩磺隆	thifensulfuron-methyl	6.40	388.1/167	388.1/167;388.1/141.1	120.00	10;10
222	乙氧嘧磺隆	ethoxysulfuron	11.86	399.2/261.1	399.2/261.1;399.2/218.1	120.00	25;25
223	氟硫草定	dithiopyr	17.81	402.0/354.0	402.0/354.0;402/272	120.00	20;30
224	螺螨酯	spirodiclofen	19.28	411.1/71.0	411.1/71.0;411.1/313.1	100.00	10;5
225	唑螨酯	fenpyroximate	18.66	422.2/366.2	422.2/366.2;422.2/135	120.00	10;35
226	胺氟草酯	flumiclorac-pentyl	18.00	441.1/308.0	441.1/308.0;441.1/354	100.00	25;10
227	双硫磷	temephos	18.30	467.0/125.0	467.0/125.0;467.0/155.0	100.00	30;30
228	氟丙嘧草酯	butafenacil	15.00	492.0/180.0	492.0/180.0;492.0/331.0	120.00	35;25
D组							
229	甲呱金翁	mepiquat chloride	0.71	114.1/98.1	114.1/98.1;114.1/58	140.00	30;30
230	二丙烯草胺	allidochlor	5.78	174.1/98.1	174.1/98.1;174.1/81	100.00	10;15
231	霜霉威	propamocarb	2.84	190.1/102.1	190.1/102.1;190.1/74.1	110.00	20;30
232	三环唑	tricyclazole	5.06	190.1/136.1	190.1/136.1;190.1/163.1	120.00	30;25
233	噻菌灵	thiabendazole	3.32	202.1/175.1	202.1/175.1;202.1/131.1	120.00	30;30
234	苯噻草酮	metamitron	4.18	203.1/175.1	203.1/175.1;203.1/104	120.00	15;20
235	异丙隆	isoproturon	7.44	207.2/72.0	207.2/72.0;207.2/165.1	120.00	15;15
236	莠去通	atratone	4.46	212.2/170.2	212.2/170.2;212.2/100.1	120.00	15;30
237	敌草净	oesmetryn	4.92	214.1/172.1	214.1/172.1;214.1/82.1	120.00	15;25
238	赛克津	metribuzin	7.16	215.1/187.2	215.1/187.2;215.1/131.1	120.00	15;20
239	—	DMST	7.06	215.3/106.1	215.3/106.1;215.3/151.2	80.00	10;5
240	环草敌	cycloate	15.95	216.2/83.0	216.2/83.0;216.2/154.1	120.00	15;10
241	莠去津	atrazine	7.20	216.0/174.2	216.0/174.2;216.0/132	120.00	15;20
242	丁草敌	butylate	17.20	218.1/57.0	218.1/57.0;218.1/156.2	80.00	10;5
243	吡蚜酮	pymetrozin	0.73	218.1/105.1	218.1/105.1;218.1/78	100.00	20;40
244	氯草敏	chloridazon	4.35	222.1/104.0	222.1/104.0;222.1/92	120.00	25;35
245	菜草畏	sulfallate	15.25	224.1/116.1	224.1/116.1;224.1/88.2	100.00	10;20
246	乙硫苯威	ethiofencarb	4.48	227/107	227/107;227/164	80.00	5;5
247	特丁通	terbumeton	5.25	226.2/170.1	226.2/170.1;226.2/114	120.00	15;20
248	环丙津	cyprazine	7.15	228.2/186.1	228.2/186.1;228.2/108.1	120.00	15;25
249	阔草净	ametryn	5.85	228.2/186.0	228.2/186.0;228.2/68.0	120.00	20;35
250	木草隆	tebuthiuron	5.30	229.2/172.2	229.2/172.2;229.2/116.0	120.00	15;20
251	草达津	trietazine	12.00	230.1/202.0	230.1/202.0;230.1/132.1	160.00	20;20

表 B 1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
252	另丁津	sebutylazine	8.65	230.1/174.1	230.1/174.1;230.1/104	120.00	15;30
253	畜虫避	dibutyl succinate	14.80	231.1/101.0	231.1/101;231.1/157.1	60.00	1;10
254	牧草胺	tebutam	13.04	234.2/91.1	234.2/91.1;234.2/192.2	120.00	20;15
255	久效威亚砜	thiofanox-sulfoxide	4.08	235.1/104.0	235.1/104.0;235.1/57.0	60.00	5;20
256	杀螟丹	cartap hydrochloride	5.90	238.0/73.0	238.0/73.0;238.0/150.0	100.00	30;10
257	虫螨畏	methacrifos	10.03	241.0/209.0	241.0/209.0;241.0/125.0	60.00	5;20
258	特丁净	terbutryn	7.44	242.2/186.1	242.2/186.1;242.2/71	120.00	15;20
259	咪唑嗪	triazoxide	5.66	248.0/68.0	248.0/68.0;248.0/95.0	100.00	35;25
260	虫线磷	thionazin	8.84	249.1/97.0	249.1/97.0;249.1/193.0	80.00	30;10
261	利谷隆	linuron	9.84	249.0/160.1	249.0/160.1;249.0/182.1	100.00	15;15
262	庚虫磷	heptanophos	7.85	251.0/127.0	251.0/127.0;251.0/109.0	80.00	10;30
263	苄草丹	prosulfocarb	17.10	252.1/91.0	252.1/91.0;252.1/128.1	120.00	15;10
264	杀草净	dipropetryn	8.58	256.1/144.1	256.1/144.1;256.1/214.0	140.00	30;20
265	禾草丹	thiobencarb	15.80	258.1/125.0	258.1/125.0;258.1/89.0	80.00	20;55
266	三异丁基磷酸盐	tri-*iso*-butyl phosphate	15.45	267.1/99.0	267.1/99.0;267.1/155.1	80.00	20;5
267	三正丁基磷酸盐	tri-*n*-butyl phosphate	15.45	267.2/99.0	267.2/99.0;267.2/155.1	80.00	5;15
268	乙霉威	diethofencarb	10.40	268.1/226.2	268.1/226.2;268.1/152.1	80.00	5;20
269	甲草胺	alachlor	13.15	270.2/238.2	270.2/238.2;270.2/162.2	80.00	10;20
270	硫线磷	cadusafos	15.27	271.1/159.1	271.1/159.1;271.1/131.0	80.00	10;20
271	吡唑草胺	metazachlor	8.36	278.1/134.1	278.1/134.1;278.1/210.1	80.00	20;5
272	胺丙畏	propetamphos	13.60	282.1/138.0	282.1/138.0;282.1/156.1	80.00	15;10
273	特丁硫磷	terbufos	13.70	289.0/57.0	289.0/57.0;289.0/103.1	80.00	20;5
274	硅氟唑	simeconazole	11.00	294.2/70.1	294.2/70.1;294.2/135.1	120.00	15;15
275	三唑酮	triadimefon	11.88	294.2/69.0	294.2/69.0;294.2/197.1	100.00	20;15
276	甲拌磷砜	phorate sulfone	9.34	293.0/171.0	293.0/171.0;293/143.1	60.00	5;15
277	十三吗啉	tridemorph	14.00	298.3/130.1	298.3/130.1;298.3/57.1	160.00	25;35
278	苯噻酰草胺	mefenacet	11.60	299.1/148.1	299.1/148.1;299.1/120.1	100.00	15;25
279	戊环唑	azaconazole	12.37	300.1/231.1	300.1/231.1;300.1/159.0	100.00	15;30
280	苯线磷	fenamiphos	8.97	304.0/216.9	304.0/216.9;304.0/202.0	100.00	20;35
281	丁苯吗啉	fenpropimorph	9.10	304.0/147.2	304.0/ 147.2;304.0/130.0	120.00	30;30
282	戊唑醇	tebuconazole	12.44	308.2/70.0	308.2/70.0;308.2/125.0	100.00	25;25

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
283	异丙乐灵	isopropalin	19.05	310.2/225.7	310.2/225.7;310.2/207.7	120.00	15;20
284	氟苯嘧啶醇	nuarimol	9.20	315.1/252.1	315.1/252.1;315.1/81.0	120.00	25;30
285	乙嘧酚磺酸酯	bupirimate	9.52	317.2/166.0	317.2/166.0;317.2/272.0	120.00	25;20
286	保棉磷	azinphos-methyl	10.45	318.1/125.0	318.1/125.0;318.1/160.0	80.00	15;10
287	丁基嘧啶磷	tebupirimfos	18.15	319.1/277.1	319.1/277.1;319.1/153.2	120.00	10;30
288	稻丰散	phenthoate	15.57	321.1/247.0	321.1/247.0;321.1/163.1	80.00	5;10
289	治螟磷	sulfotep	16.35	323.0/171.1	323/171.1;323.0/143.0	120.00	10;20
290	硫丙磷	sulprofos	18.40	323.0/219.1	323.0/219.1;323/247	120.00	15;10
291	苯硫磷	EPN	17.10	324.0/296.0	324.0/296.0;324.0/157.1	120.00	10;20
292	甲基吡嗪磷	azamethiphos	6.05	325.0/183.0	325.0/183.0;325.0/139.0	80.00	15;25
293	烯唑醇	diniconazole	13.67	326.1/70.0	326.1/70.0;326.1/159.0	120.00	25;30
294	唑嘧磺草胺	flumetsulam	4.95	326.1/129.0	326.1/129.0;326.1/262.1	120.00	30;20
295	稀禾啶	sethoxydim	5.36	328.2/282.2	328.2/282.2;328.2/178.1	100.00	10;15
296	纹枯脲	pencycuron	16.33	329.2/125.0	329.2/125.0;329.2/218.1	120.00	20;15
297	灭蚜磷	mecarbam	14.46	330.0/227.0	330/227;330.0/199.0	80.00	5;10
298	苯草酮	tralkoxydim	18.09	330.2 /284.2	330.2 /284.2;330.2/138.1	100.00	10;20
299	马拉硫磷	malathion	13.20	331.0/127.1	331.0/127.1;331/99	80.00	5;10
300	稗草畏	pyributicarb	18.26	331.1/181.1	331.1/181.1;331.1/108	120.00	10;20
301	哒嗪硫磷	pyridaphenthion	12.32	341.1/189.2	341.1/189.2;341.1/205.2	120.00	20;20
302	嘧啶磷	pirimiphos-ethyl	17.75	334.2/198.2	334.2/198.2;334.2/182.2	120.00	20;25
303	硫双威	thiodicarb	6.55	355.1/88.0	355.1/88.0;355.1/163.0	80.00	15;5
304	吡唑硫磷	pyraclofos	15.34	361.1/257.0	361.1/257.0;361.1/138.0	120.00	25;35
305	啶氧菌酯	picoxystrobin	15.40	368.1/145.0	368.1/145.0;368.1/205.0	80.00	20;5
306	四氟醚唑	tetraconazole	12.54	372.0/159.0	372.0/159.0;372.0/70.0	120.00	35;35
307	吡唑解草酯	mefenpyr-diethyl	16.80	373.0/327.0	373.0/327.0;373.0/160.0	80.00	15;35
308	丙溴磷	profenefos	16.74	373.0/302.9	373.0/302.9;373/345.0.0	120.00	15;10
309	百克敏	pyraclostrobin	16.04	388.0/163.0	388.0/163.0;388.0/194.0	120.00	20;10
310	烯酰吗啉	dimethomorph	16.04	388.1/165.1	388.1/165.1;388.1/301.1	120.00	25;20
311	噻嗯菊酯	kadethrin	17.95	397.1/171.1	397.1/171.1;397.1/128.0	100.00	15;55
312	噻唑烟酸	thiazopyr	16.15	397.1/377.0	397.1/377.0;397.1/335.1	140.00	20;30
313	甲基丙硫克百威	benfuracarb-methyl	8.60	411.1/149.1	411.1/149.1;411.1/182.1	100.00	20;20
314	醚黄隆	cinosulfuron	6.53	414.1/183.1	414.1/183.1;414.1/157.1	120.00	10;20

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
315	吡嘧磺隆	pyrazosulfuron-ethyl	17.20	415.1/182.1	415.1/182.1;415.1/369.1	120.00	15;10
316	磺草胺唑	metosulam	7.60	418.0/175.1	418.0/175.1;418.0/354.0	120.00	25;20
E组							
317	4-氨基吡啶	4-aminopyridine	0.72	95.1/52.1	95.1/52.1;95.1/78.1	120	25;5
318	灭多威	methomyl	3.76	163.2/88.1	163.2/88.1;163.2/106.1	80	5;10
319	咯喹酮	pyroquilon	5.87	174.1/117.1	174.1/117.1;174.1/132.2	140	35;25
320	麦穗灵	fuberidazole	3.66	185.2/157.2	185.2/157.2;185.2/92.1	120	20;25
321	丁脒酰胺	isocarbamid	4.35	186.2/87.1	186.2/87.1;186.2/130.1	80	20;5
322	丁酮威	butocarboxim	5.3	213.0/75.1	213.0/75.1;213.0/156.1	100	15;5
323	杀虫脒	chlordimeform	4.13	197.2/117.1	197.2/117.1;197.2/89.1	120	25;50
324	霜脲氰	cymoxanil	4.95	199.1/111.1	199.1/111.1;199.1/128.1	80	20;15
325	灭草敌	vernolate	3.47	204.2/128.2	204.2/128.2;204.2/175.5	100	10;10
326	氯硫酰草胺	chlorthiamid	5.80	206.0/189.0	206.0/189.0;206.0/119.0	80	15;50
327	灭害威	aminocarb	0.749	209.3/137.1	209.3/137.1;209.3/152.1	100	20;10
328	甲菌定	dimethirimol	4.20	210.2/71.1	210.2/71.1;210.2/140.0	120	25;20
329	氧乐果	omethoate	0.75	214.1/125.0	214.1/125.0;214.1/183.0	80	20;5
330	乙氧呋啉	ethoxyquin	7.19	218.2/174.2	218.2/174.2;218.2/160.1	120	30;35
331	敌敌畏	dichlorvos	4.20	222.9/109.0	222.9/109.0;222.9/79.0	120	15;30
332	涕灭威砜	aldicarb sulfone	3.50	223.1/76.0	223.1/76.0;223.1/148.0	80	5;5
333	二氧威	dioxacarb	4.70	224.1/123.1	224.1/123.1;224.1/167.1	80	15;5
334	苄腺嘌呤	benzyladenine	4.16	226.1/91.1	226.1/91.1;226.1/148.0	140	20;15
335	甲基内吸磷	demeton-*s*-methyl	6.25	253.0/89.0	253.0/ 89.0;253.0/61.0	80	10;35
336	杀虫丹亚砜	ethiofencarb-sulfoxide	3.95	242.2/107.1	242.2/107.1;242.2/185.1	80	15;5
337	杀螟腈	cyanohos	6.89	244.2/180.0	244.2/180.0;244.2/125.0	120	20;15
338	甲基乙拌磷	thiometon	7.16	247.1/171.0	247.1/171.0;247.1/89.1	100	10;10
339	灭菌丹	folpet	12.82	260.0/130.0	260.0/130.0;260.0/102.3	100	10;40
340	呱草丹	dimepiperate	16.82	286.1/168.0	286.1/168.0;286.1/119.1	80	10;10
341	苯锈定	fenpropidin	8.96	274.0/147.1	274.0/147.1;274.0/86.1	160	25;25
342	赛硫磷	amidithion	14.25	274.1/97.0	274.1/97.0;274.1/122.0	140	20;15
343	甲咪唑烟酸	imazapic	4.80	276.2/163.2	276.2/163.2;276.2/216.2;276.2/86.1	120	20;20;25
344	甲基对氧磷	paraoxon-ethyl	8.00	276.2/220.1	276.2/220.1;276.2/94.1	100	10;40
345	4-十二烷基-2,6-二甲基吗啉	aldimorph	14.10	284.4/57.2	284.4/57.2;284.4/98.1	160	30;30

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
346	乙烯菌核利	vinclozolin	14.66	286.1/242	286.1/242;286.1/145.1	100	5;45
347	烯效唑	uniconazole	11.69	292.1/70.1	292.1/70.1;292.1/125.1	120	30;30
348	啶斑肟	pyrifenox	7.42	295.0/93.1	295.0/93.1;295.0/163.0	120	15;15
349	氯硫磷	chlorthion	14.45	298.0/125.0	298.0/125.0;298.0/109.0	100	15;20
350	异氯磷	dicapthon	14.47	298.0/125.0	298.0/125.0;298.0/266.1	80	10;10
351	四螨嗪	clofentezine	16.18	303.0/138.0	303.0/138.0;303.0/156.0	100	25;25
352	氟草敏	norflurazon	8.08	304.0/284.0	304.0/284.0;304.0/160.1	140	25;35
353	野麦畏	triallate	18.52	304.0/143.0	304.0/143.0;304.0/86.1	120	25;15
354	苯氧喹啉	quinoxyphen	17.05	308.0/197.0	308.0/197.0;308.0/272.0	180	35;35
355	倍硫磷砜	fenthion sulfone	8.71	311.1/125.0	311.1/125.0;311.1/109.0	140	15;20
356	氟咯草酮	flurochloridone	13.34	312.2/292.2	312.2/292.2;312.2/53.1	140	25;30
357	酞酸苯甲基丁酯	phthalic acid, benzyl butyl ester	17.34	313.2/91.1	313.2/91.1;313.2/149.0;313.2/205.1	80	10;10;5
358	氯唑磷	isazofos	13.67	314.1/162.1	314.1/162.1;314.1/120.0	100	10;35
359	除线磷	dichlofenthion	18.15	315.0/259.0	315.0/259.0;315.0/287.0	100	10;5
360	蚜灭多砜	vamidothion sulfone	2.45	178.0/87.0	178.0/87.0;178.0/60.0	100	15;10
361	特丁硫磷砜	terbufos sulfone	12.57	321.2/171.1	321.2/171.1;321.2/143.0	80	5;15
362	敌乐胺	dinitramine	15.80	323.1/305.0	323.1/305.0;323.1/247.0	120	10;15
363	氰霜唑	cyazofamid	5.10	325.2/261.3	325.2/261.3;325.2/108.0	80	5;15
364	毒壤磷	trichloronat	18.98	333.1/304.9	333.1/304.9;333.1/161.8	100	10;45
365	苄呋菊酯	resmethrin-2	12.35	339.2/171.1	339.2/171.1;339.2/143.1	80	10;25
366	啶酰菌胺	boscalid	12.20	343.2/307.2	343.2/307.2;343.2/271.0	140	20;35
367	甲磺乐灵	nitralin	15.15	346.1/304.1	346.1/304.1;346.1/262.1	100	10;20
368	甲氰菊酯	fenpropathrin	19.00	350.2/125.2	350.2/125.2;350.2/97	120	5;20
369	噻螨酮	hexythiazox	18.23	353.1/168.1	353.1/168.1;353.1/228.1	120	20;10
370	双氟磺草胺	florasulam	6.80	360.2/129.1	360.2/129.1;360.2/192	120	30;15
371	苯螨特	benzoximate	17.00	386.1/197.0	386.1/197.0;386.1/199.2	140	30;30
372	新燕灵	benzoylprop-ethyl	16.00	366.1/105.0	366.1/105.0;366.1/77.0	80	15;35
373	呋草唑	pyrimidifen	13.69	378.2/184.1	378.2/184.1;378.2/150.2	140	15;40
374	呋线威	furathiocarb	17.85	383.3/195.1	383.3/195.1;383.3/252.1;383.3/167.0	100	10;5;25
375	反式氯菊酯	*trans*-permethin	21.00	391.3/149.1	391.3/149.1;391.3/167.1	100	10;10
376	醚菊酯	etofenprox	19.73	394.0/177.0	394.0/177.0;394.0/359.0	100	15;5

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
377	苄草唑	pyrazoxyfen	14.30	403.2/91.1	403.2/91.1;403.2/105.1;403.2/139.1	140	25;20;20
378	嘧唑螨	flubenzimine	14.48	417.0/397.0	417.0/397.0;417.0/167.1	100	10;25
379	Z-氯氰菊酯	*zeta* cypermethrin	20.45	433.3/416.2	433.3/416.2;433.3/191.2	100	5;10
380	氟吡乙禾灵	haloxyfop-2-ethoxy-ethyl	17.65	434.1/316.0	434.1/316.0;434.1/288.0;434.1/91.2	120	15;20;45
381	S-氰戊菊酯	esfenvalerate	8.28	437.2/206.9	437.2/206.9;437.2/154.2	80	35;20
382	乙羧氟草醚	fluoroglycofen-ethyl	17.70	344.0/300.0	344.0/300.0;344.0/233.0	120	15;20
F组							
383	丙烯酰胺	acrylamide	0.73	72.0/55.0	72.0/55.0;72.0/27.0	100	10;10
384	叔丁基胺	*tert*-butylamine	0.65	74.1/46.0	74.1/46.0;74.1/56.8	120	5;5
385	噁霉灵	hymexazol	2.65	100.1/54.1	100.1/54.1;100.1/44.2;100.1/28	100	10;15;15
386	邻苯二甲酰亚胺	phthalimide	0.74	148.0/130.1	148.0/130.1;148.0/102	100	10;25
387	甲氟磷	dimefox	3.88	155.1/110.1	155.1/110.1;155.1/135.0	120	20;10
388	速灭威	metolcarb	6.50	166.2/109.0	166.2/109.0;166.2/97.1	80	15;50
389	二苯胺	diphenylamin	13.06	170.2/93.1	170.2/93.1;170.2/152.0	120	30;30
390	萘乙酸基乙酰亚胺	1-naphthy acetamide	5.30	186.2/141.1	186.2/141.1;186.2/115.1	100	15;45
391	乙基-阿特拉津	atrazine-desethyl	4.43	188.2/146.1	188.2/146.1;188.2/104.1	120	10;20
392	2,6-二氯苯甲酰胺	2,6-dichlorobenzamide	3.85	190.1/173.0	190.1/173.0;190.1/145.0	100	20;30
393	涕灭威	aldicarb	5.42	213.0/89.0	213.0/89.0;213.0/116.0	100	30;10
394	酞酸二甲酯	dimethyl phthalate	3.50	217.0/86.0	217.0/86.0;217.0/156.0	100	15;20
395	杀虫脒盐酸盐	chlordimeform hydrochloride	4.00	197.2/117.1	197.2/117.1;197.2/89.1	120	25;50
396	西玛通	simeton	3.94	198.2/100.1	198.2/100.1;198.2/128.2	120	25;20
397	呋虫胺	dinotefuran	3.06	203.3/129.2	203.3/129.2;203.3/87.1	80	5;10
398	克草敌	pebulate	16.05	204.2/72.1	204.2/72.1;204.2/128	100	10;10
399	活化酯	acibenzolar-s-methyl	10.00	211.1/91.0	211.1/91.0;211.1/136.0	120	20;30
400	蔬果磷	dioxabenzofos	10.15	217.0/77.1	217.0/77.1;217.0/107.1	100	40;30

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
401	杀线威	oxamyl	3.46	241.0/72.0	241.0/72.0;242.0/121.0	120	15;10
402	赛苯隆	thidiazuron pestanal	5.60	221.1/102.0	221.1/102.0;221.1/128.0	100	15;5
403	甲基苯噻隆	methabenzthiazuron	6.80	222.2/165.1	222.2/165.1;222.2/149.9	100	15;35
404	丁酮砜威	butoxycarboxim	3.30	223.2/63.0	223.2/63.0;223.2/106.1	80	10;5
405	砜吸磷	demeton-*s*-methyl sulfoxide	3.42	247.1/109.0	247.1/109.0;247.1/169.1	80	20;10
406	久效威砜	thiofanox sulfone	7.30	251.1/57.2	251.1/57.2;251.1/76.1	80	5;5
407	硫环磷	phosfolan	4.95	256.2/140.0	256.2/140.0;256.2/228.0	100	25;10
408	硫赶内吸磷	demeton-*s*	5.44	259.1/89.1	259.1/89.1;259.1/61.0	60	10;35
409	氧倍硫磷	fenthion oxon	8.15	263.2/230.0	263.2/230.0;263.2/216.0	100	10;20
410	萘丙胺	napropamide	12.45	272.2/171.1	272.2/171.1;272.2/129.2	120	15;15
411	杀螟硫磷	fenitrothion	13.60	278.1/125.0	278.1/125.0;278.1/246.0	140	15;15
412	酞酸二丁酯	phthalic acid, dibutyl ester	17.5	279.2/149.0	279.2/149.0;279.2/121.1	80	10;45
413	丙草胺	metolachlor	13.15	284.1/252.2	284.1/252.2;284.1/176.2	120	10;15
414	腐霉利	procymidone	13.32	284.0/256.0	284.0/256.0;284.0/145.0	140	10;45
415	蚜灭磷	vamidothion	4.18	288.2/146.1	288.2/146.1;288.2/118.1	80	10;20
416	枯草隆	chloroxuron	9.00	291.2/72.1	291.2/72.1;291.2/218.1	120	20;30
417	威菌磷	triamiphos	6.58	295.2/135.1	295.2/135.1;295.2/92.0	100	25;35
418	右旋炔丙菊酯	prallethrin	7.25	301.0/105.0	301.0/105.0;301.0/169.0	80	5;20
419	可灭隆	cumyluron	11.70	303.3/185.1	303.3/185.1;303.3/125.0	100	5;45
420	甲氧咪草烟	imazamox	3.00	304.2/260.0	304.2/260;304.2/186.0	100	5;40
421	杀鼠灵	warfarin	10.30	309.2/163.1	309.2/163.1;309.2/251.2	100	20;15
422	亚胺硫磷	phosmet	11.14	318.0/160.1	318.0/160.1;318.0/133.0	80	10;35
423	皮蝇磷	ronnel	17.70	320.9/125.0	320.9/125.0;320.9/288.8	120	10;10
424	酞酸二环己酯	phthalic acid, biscyclohexyl ester	19.10	331.3/149.1	331.3/149.1;331.3/167.1;331.3/249.0	80	10;5;5
425	环丙酰胺	carpropamid	15.36	334.2/196.1	334.2/196.1;334.2/139.1	120	10;15
426	吡螨胺	tebufenpyrad	17.32	334.3/147.0	334.3/147.0;334.3/117.1	160	25;40
427	虫酰肼	tebufenozide	14.70	297.0/133.0	297.0/133.0;97.0/105.0	80	15;35
428	虫螨磷	chlorthiophos	18.58	361.0/305.0	361.0/305.0;361.0/225.0	100	10;15
429	毒壤磷	dialifos	17.15	394.0/208.0	394.0/208.0;394.0/187.0	100	5;20

表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
430	吲哚酮草酯	cinidon-ethyl	17.63	394.2/348.1	394.2/348.1;394.2/107.1	120	15;45
431	鱼藤酮	rotenone	14.00	395.3/213.2	395.3/213.2;395.3/192.2	160	20;20
432	亚胺唑	imibenconazole	17.16	411.0/125.1	411.0/125.1;411.0/171.1;411/342	120	25;15;10
433	噁草酸	propaquiafop	17.56	444.2/100.1	444.2/100.1;444.2/299.1	140	15;25
434	2,3,4,5-四氯苯胺	2,3,4,5-tetrachloro-aniline	0.72	229.7/194.0	229.7/194.0;229.7/159.0	100	20;35
435	吡草酮	benzofenap	16.95	431.0/105.0	431.0/105.0;431.0/119.0	140	30;20
436	地乐酯	dinoseb acetate	0.75	283.1/89.2	283.1/89.2;283.1/133.1;283.1/177.2	120	10;10;10
437	异丙草胺	propisochlor	15.00	284.0/224.0	284.0/224.0;284.0/212.0	80	5;15
438	氟硅菊酯	silafluofen	20.80	412.0/91.0	412.0/91.0;412.0/72.1	100	40;30
439	乙氧苯草胺	etobenzanid	15.65	340.0/149.0	340.0/149.0;340.0/121.1	120	20;30
440	四唑酰草胺	fentrazamide	16.00	372.1/219	372.1/219.0;372.1/83.2	200	5;35
441	五氯苯胺	pentachloroaniline	14.30	285.0/99.1	285.0/99.1;285.0/127.0	100	15;5
442	苯醚氰菊酯	cyphenothrin	19.40	376.2/151.2	376.2/151.2;376.2/123.2	100	5;15
443	狄氏剂	dieldrin	3.91	377.0/333.0	377.0/333.0;377.0/221.2	100	5;35
444	乙螨唑	etoxazole	3.36	360.2/141.1	360.2/141.1;360.2/304	100	30;15
445	马拉氧磷	malaoxon	13.80	331.0/99.0	331.0/99.0;331.0/127.0	120	20;5
446	多果定	dodine	7.46	228.2/57.3	228.2/57.3;228.2/60.1	160	25;20
G组							
447	茅草枯	dalapon	0.60	140.8/58.8	140.8/58.8;140.8/62.9	100	10;15
448	四氟丙酸	flupropanate	0.97	144.9/81.0	144.9/81.0;144.9/101.5	100	15;5
449	2,6-二氟苯甲酸	2,6-difluorobenzoic acid	0.73	153.0/93.1	153.0/93.1;158.0/113	60	20;5
450	三氯乙酸钠	trichloroacetic acid sodium salt	0.74	160.9/116.9	160.9/116.9;160.9/95.9	120	7;29
451	2-苯基苯酚	2-phenylphenol	9.78	169.0/115.0	169.0/115.0;169.0/93.0	140	35;20
452	3-苯基苯酚	3-phenylphenol	9.78	169.0/115.0	169.0/115.0;169.0/141.1	140	35;35
453	二氯吡啶酸	clopyralld	2.14	190.0/146.0	190.0/146.0;190.0/74.0	60	5;45
454	4,6-二硝基邻甲酚	DNOC	4.19	197.1/180.0	197.1/180.0;197.1/108.9	120	15;20
455	调果酸	cloprop	3.38	199.0/127.0	199.0/127.0;199.0/71.0	80	5;5

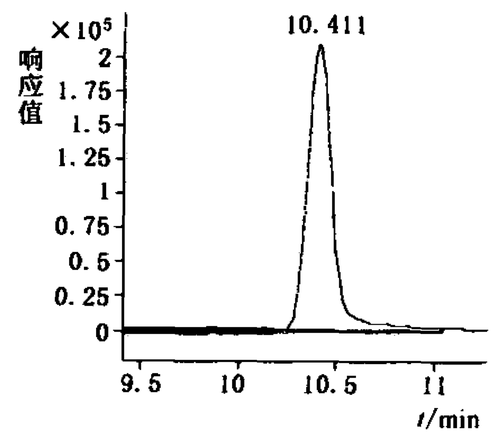
表 B.1（续）

序号	中文名称	英文名称	保留时间/min	定量离子	定性离子	源内碎裂电压/V	碰撞气能量/V
456	氯硝胺	dicloran	8.82	205.1/169.3	205.1/169.3;205.1/123.2	120	15;30
457	氯苯胺灵	chlorpropham	12.55	212.0/152.0	212.0/152.0;212.0/57.0	80	5;20
458	2-甲-4-氯丙酸	mecoprop	4.46	213.1/141.0	213.1/141.0;213.1/71.0	80	5;5
459	特草定	terbacil	5.94	215.1/159.0	215.1/159.0;215.1/73.0	120	10;40
460	麦草畏	dicamba	0.75	219.0/175.0	219.0/175.0;219.0/145.0	60	5;5
461	二甲四氯丁酸	MCPB	5.53	227.0/141.0	227.0/141.0;227.0/105.0	80	10;25
462	灭草松	bentazone	3.69	239.0/132.0	239.0/132.0;239.0/197.0	140	20;15
463	地乐酚	dinoseb	6.13	239.0/193.0	239.0/193.0;239.0/163.0	120	22;25
464	草消酚	dinoterb	6.13	239.0/207.0	239.0/207.0;239.0/176.1	140	25;35
465	氯吡脲	forchlorfenuron	7.35	246.1/127.0	246.1/127.0;246.1/91.1	80	5;25
466	咯菌腈	fludioxonil	11.10	247.0/180.0	247.0/180.0;247.0/126.0	140	10;10
467	氟草烟	fluroxypyr	2.63	252.9/195.0	252.9/195.0;252.9/232.5	80	5;5
468	杀螨醇	chlorfenethol	11.81	265.0/96.7	265.0/96.7;265.0/152.7	120	15;5
469	溴苯腈	bromoxynil	4.07	274.0/79.1	274.0/79.1;274.0/167.0	120	40;40
470	灭幼脲	chlorobenzuron	14.05	306.9/154.0	306.9/154.0;306.9/125.9	100	5;20
471	氯霉素	chloramphenicolum	5.07	321.0/152.0	321.0/152.0;321.0/257.0	100	15;10
472	禾草灭	alloxydim-sodium	3.49	322.2/222.0	322.2/222.0;322.2/190.0	120	20;35
473	乙酰磺胺对硝基苯	sulfanitran	5.77	334.0/137.0	334.0/137.0;334.0/197.0	120	28;29
474	甲基磺草酮	mesotrion	0.74	338.1/291.0	338.1/291.0;338.1/212.2	80	5;40
475	安磺灵	oryzalin	14.04	345.0/281.1	345.0/281.1;345.0/146.9;345.0/78.1	120	10;10;5
476	三氟羧草醚	acifluorfen	6.40	360.0/316.0	360.0/316.0;360.0/194.9	80	5;25
477	碘苯腈	ioxynil	4.63	369.8/126.9	369.8/126.9;369.8/215.0	120	35;35
478	噁唑菌酮	famoxadone	16.52	373.0/282.0	373.0/282.0;373.0/328.9	120	20;15
479	吡氟酰草胺	diflufenican	17.30	393.1/329.1	393.1/329.1;393.1/272.0	100	10;10
480	乙虫清	ethiprole	10.74	394.9/331.0	394.9/331.0;394.9/250	100	5;25
481	磺菌胺	flusulfamide	11.15	413.0/171.0	413.0/171.0;413.0/179.0	160	40;40
482	环丙嘧磺隆	cyclosulfamuron	7.60	420.2/238.8	420.2/238.8;420.2/265.4	100	10;5
483	氟磺胺草醚	fomesafen	7.13	437.0/195.1	437.0/195.1;437.0/222.1	140	40;40
484	碘甲磺隆钠	iodosulfuron-methyl sodium	4.48	505.9/139.0	505.9/139.0;505.9/308.0	120	25;15
485	克来范	kelevan	19.50	628.1/169.0	628.1/169.0;628.1/422.6	120	24;22
486	甲基碘磺隆	iodosulfuron-methyl	4.48	506.0/139.0	506.0/139.0;506.0/307.9	120	25;15

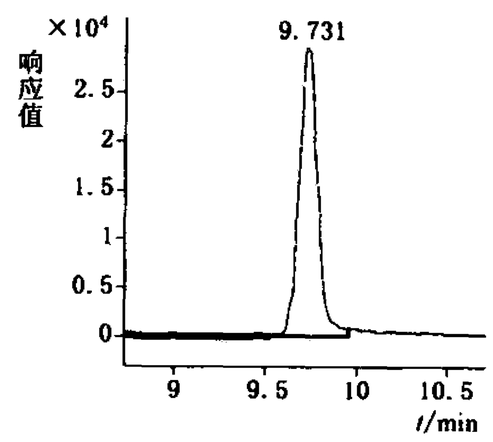
附 录 C
（资料性附录）
486 种农药及相关化学品多反应监测（MRM）色谱图

A、B、C、D、E、F 和 G 七组农药及相关化学品多反应监测（MRM）色谱图如下：

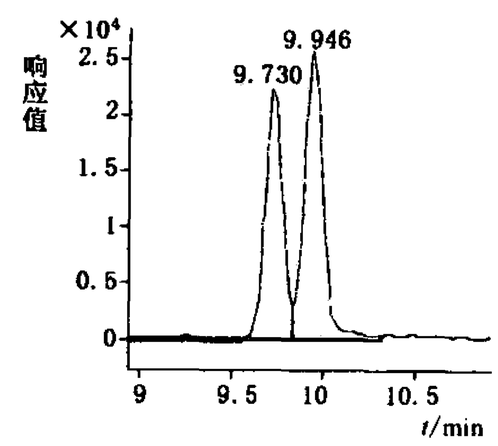
A 组



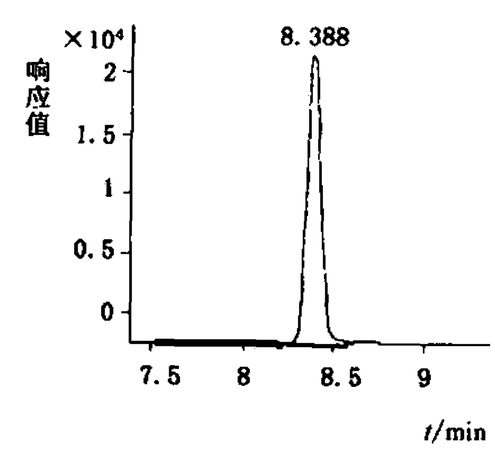
1 苯胺灵
（propham）



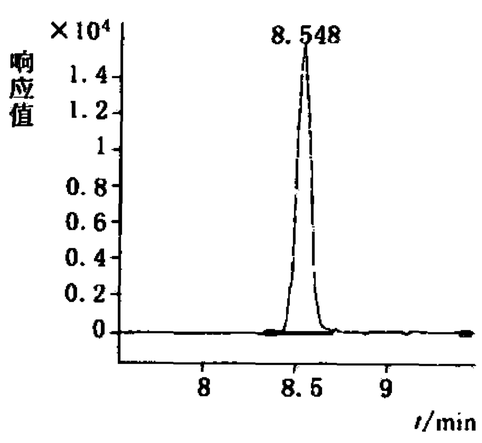
2. 异丙威
（isoprocarb）



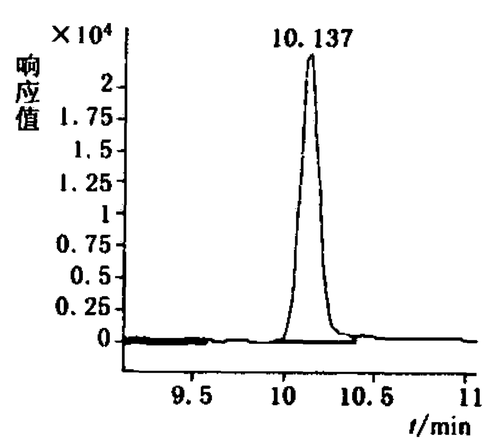
3. 3,4,5-混杀威
（3,4,5-trimethacarb）



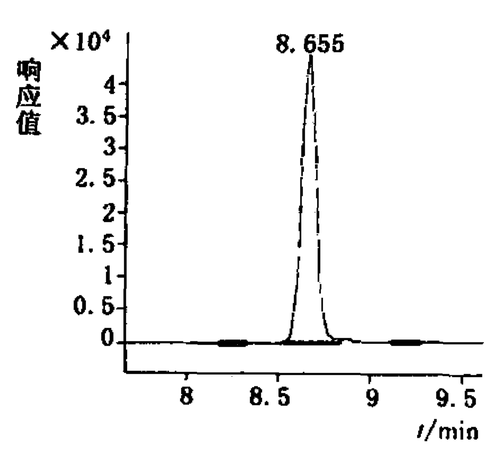
4. 环莠隆
（cycluron）



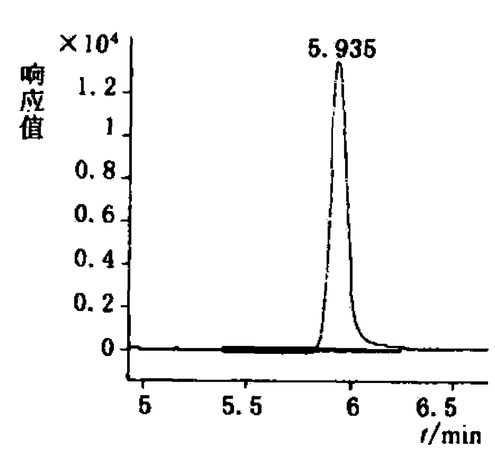
5. 甲萘威
（carbaryl）



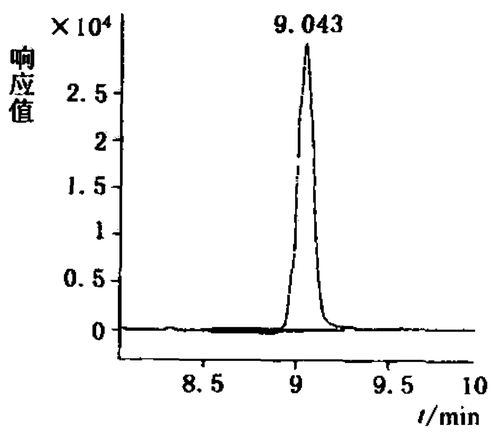
6. 毒草胺
（propachlor）



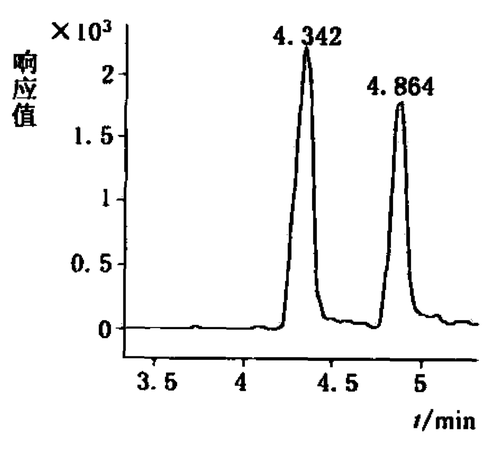
7. 吡咪唑
（rabenzazole）



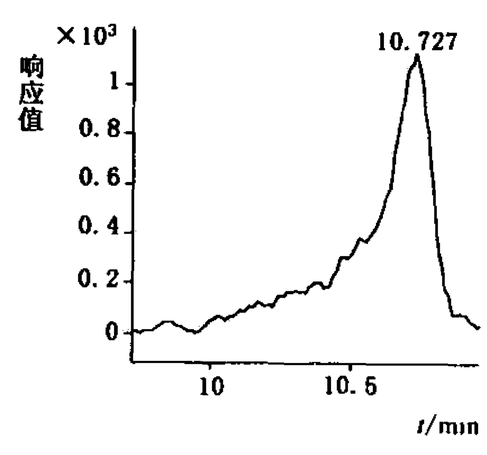
8. 西草净
（simetryn）



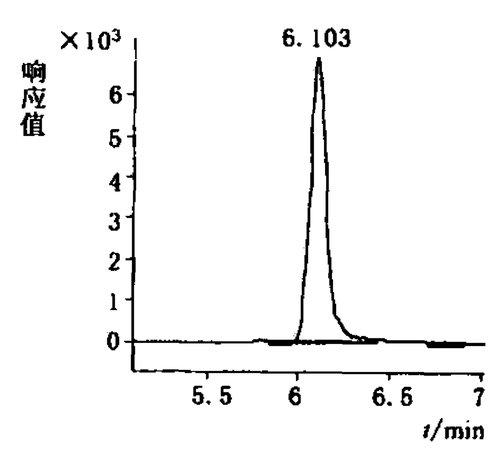
9. 绿谷隆
（monolinuron）



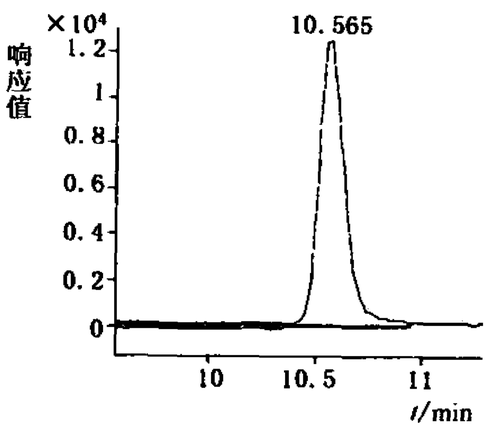
10. 速灭磷
（mevinphos）



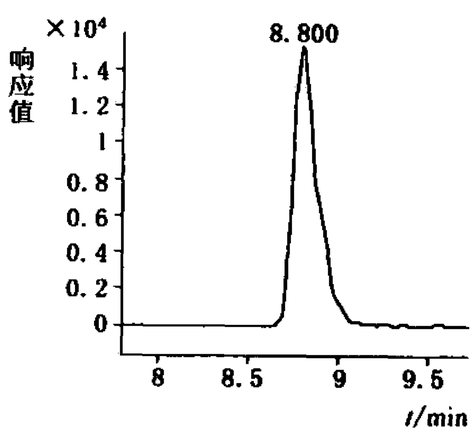
11. 叠氮津
（aziprotryne）



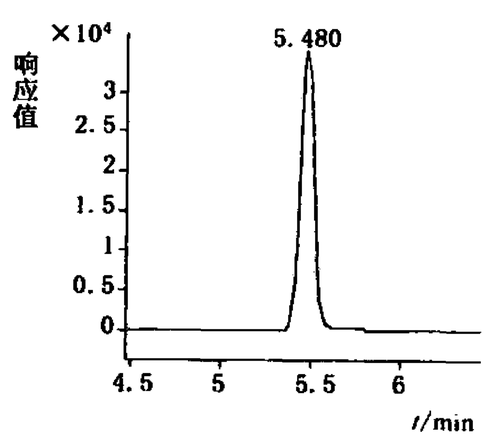
12. 密草通
（secbumeton）



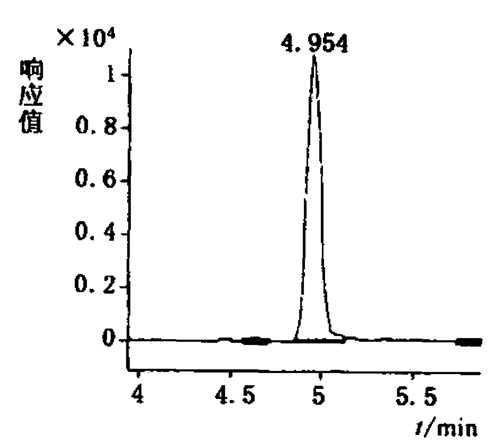
13. 嘧菌磺胺
（cyprodinil）



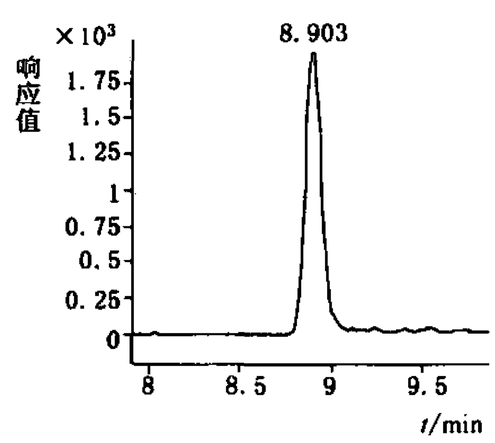
14 播土隆
（buturon）



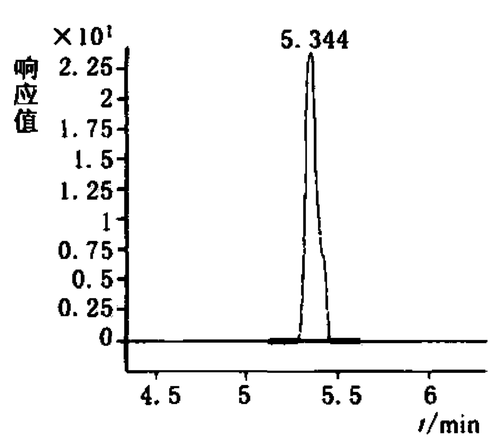
15. 双酰草胺
（carbetamide）



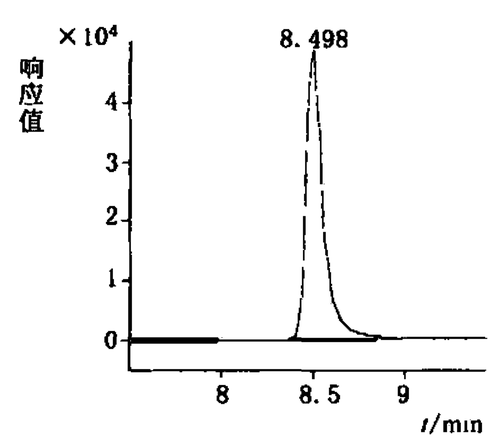
16. 抗蚜威
（pirimicarb）



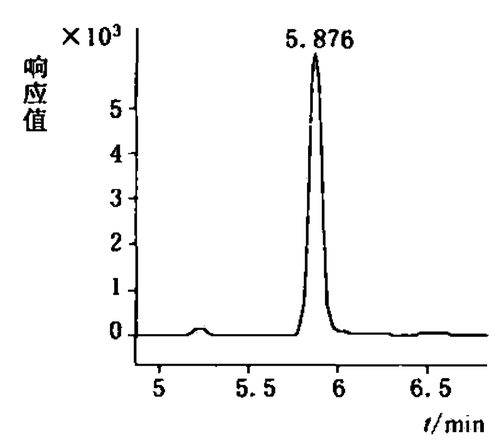
17 异噁草松
(clomazone)



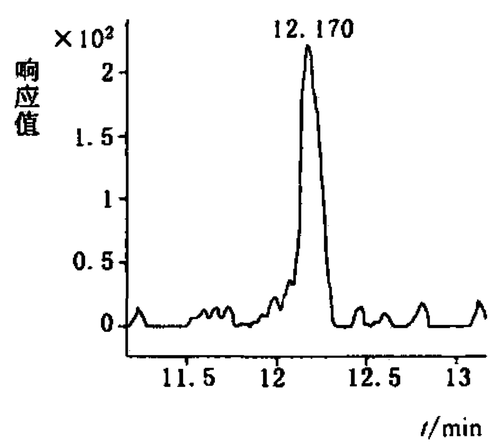
18. 氰草津
(cyanazine)



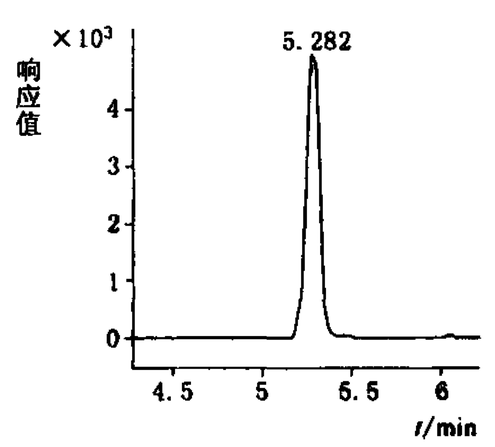
19. 扑草净
(prometryne)



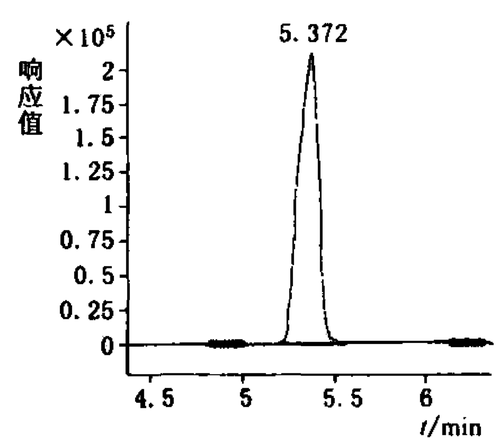
20 对氧磷
(paraoxon methyl)



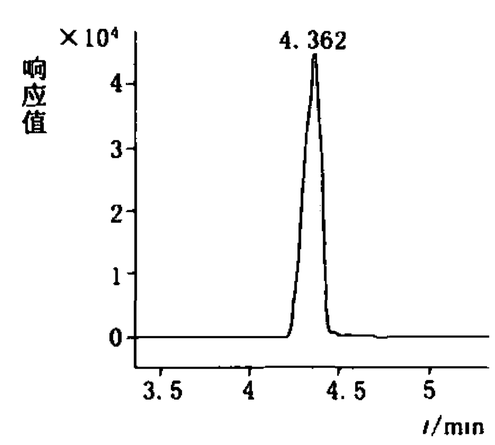
21. 4,4′-二氯二苯甲酮
(4,4′-dichlorobenzophenone)



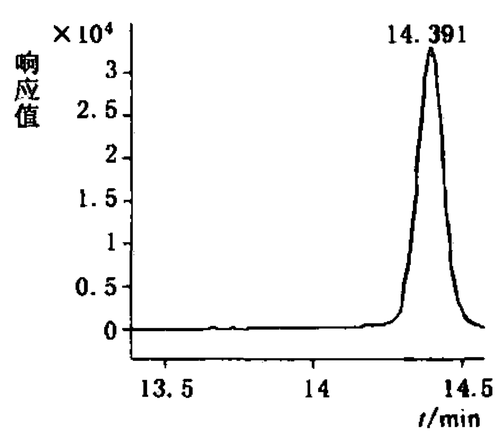
22. 噻虫啉
(thiacloprid)



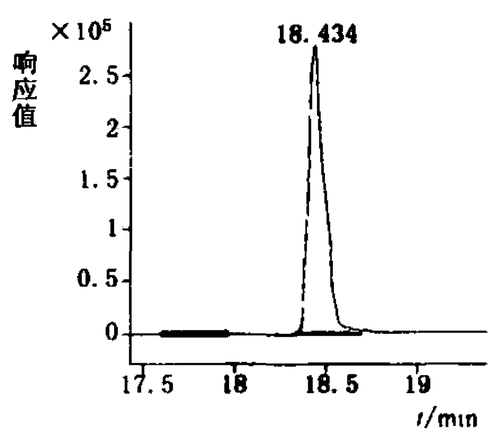
23 吡虫啉
(imidacloprid)



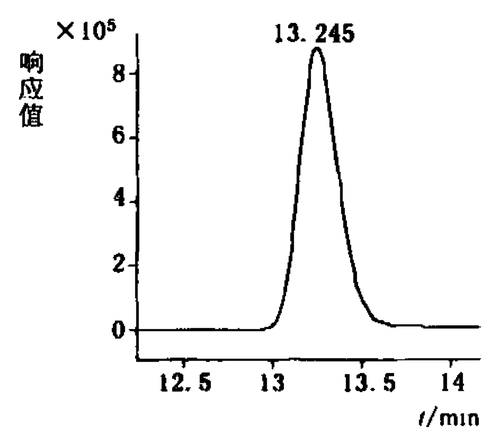
24. 磺噻隆
(ethidimuron)



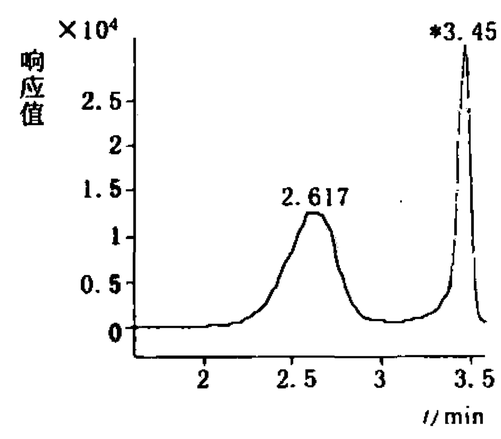
25. 丁噻草酮
(isomethiozin)



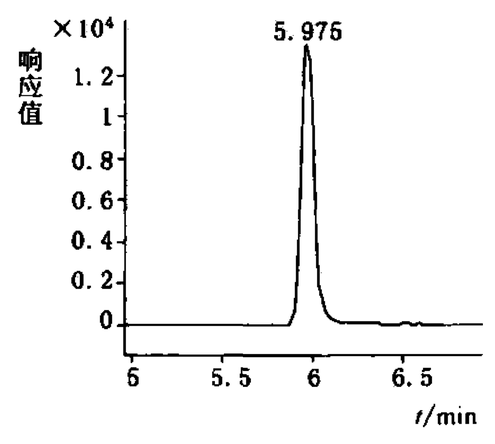
26. 燕麦敌
(diallate)



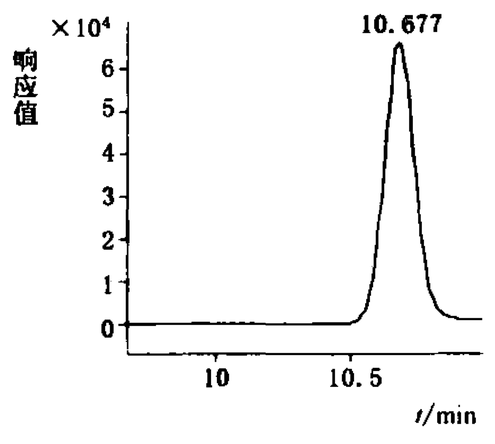
27 乙草胺
(acetochlor)



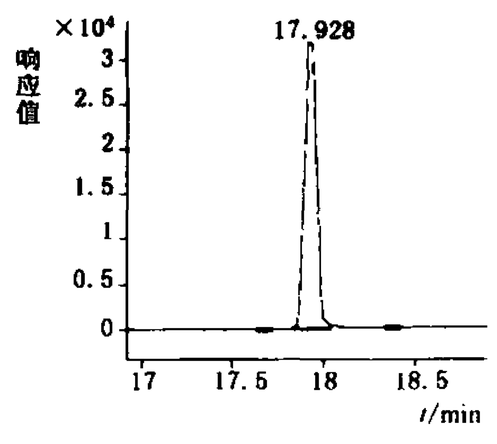
28. 烯啶虫胺
(nitenpyram)



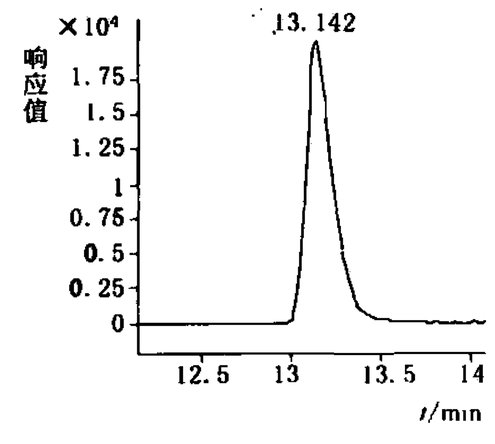
29. 盖草津
(methoprotryne)



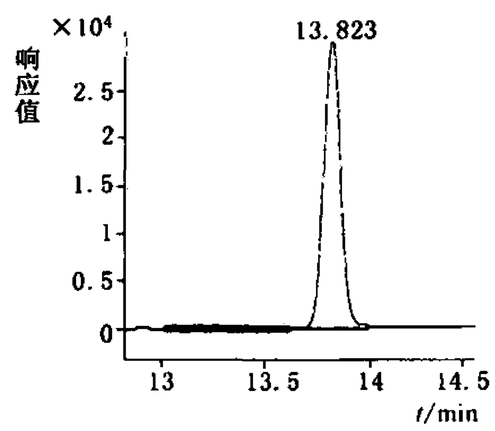
30. 二甲酚草胺
(dimethenamid)



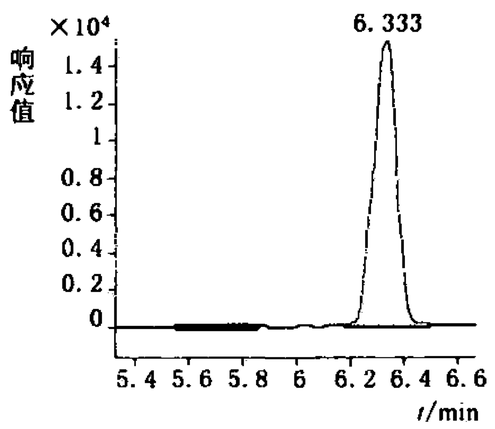
31. 特草灵
(terrbucarb)



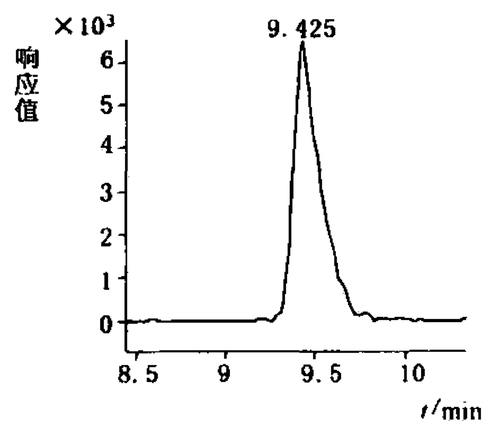
32. 戊菌唑
(penconazole)



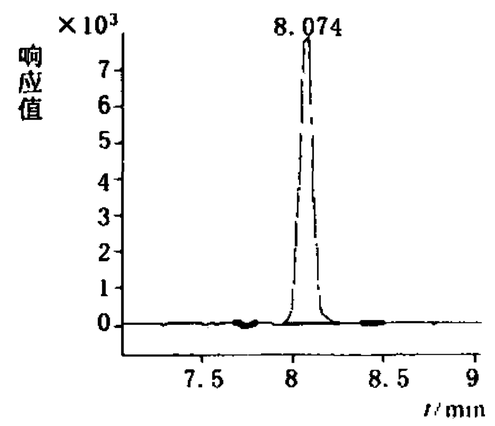
33. 腈菌唑
(myclobutanil)



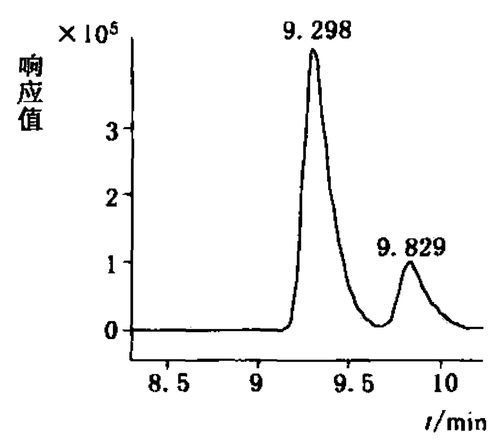
34. 咪唑乙烟酸
(imazethapyr)



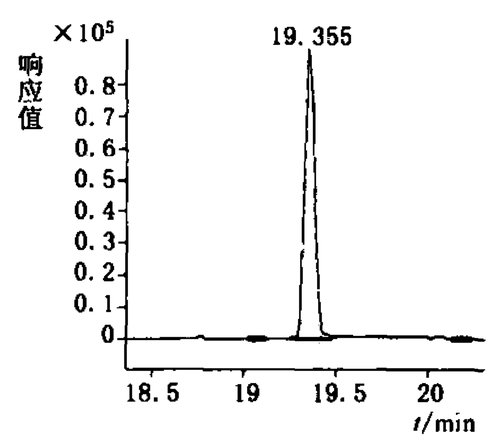
35. 多效唑
(paclobutrazol)



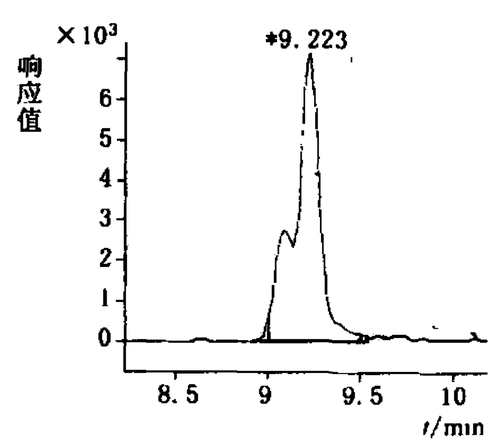
36. 倍硫磷亚砜
(fenthion sulfoxide)



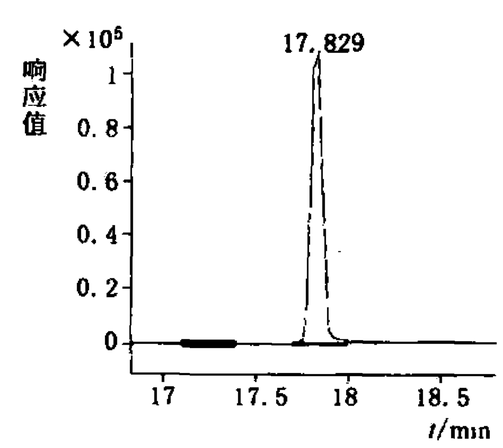
37 三唑醇
(triadimenol)



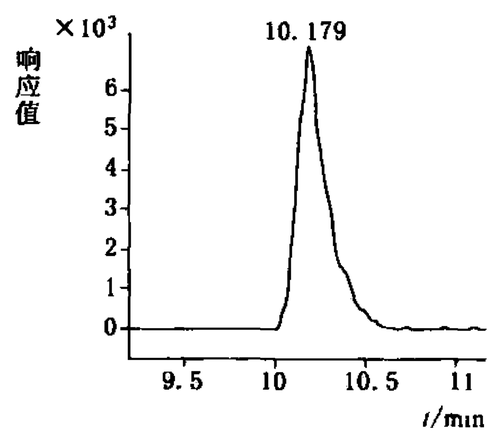
38. 仲丁灵
(butralin)



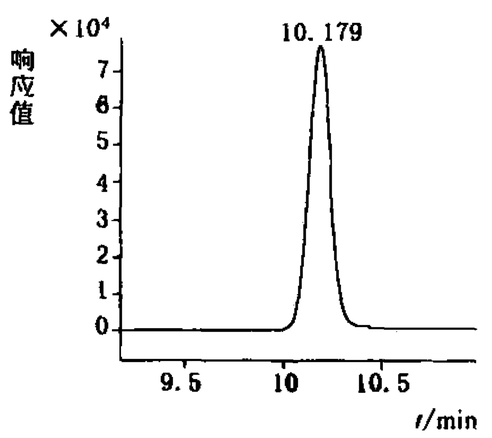
39. 螺噁茂胺
(spiroxamine)



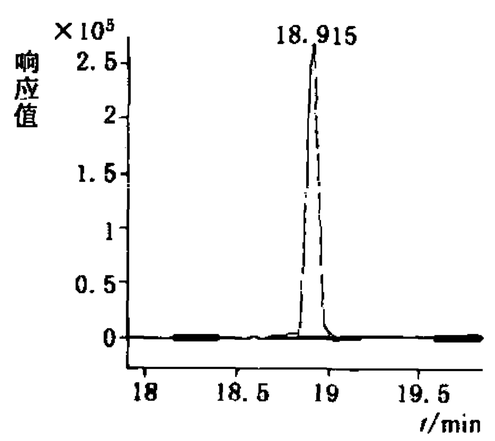
40. 甲基立枯磷
(tolclofos methyl)



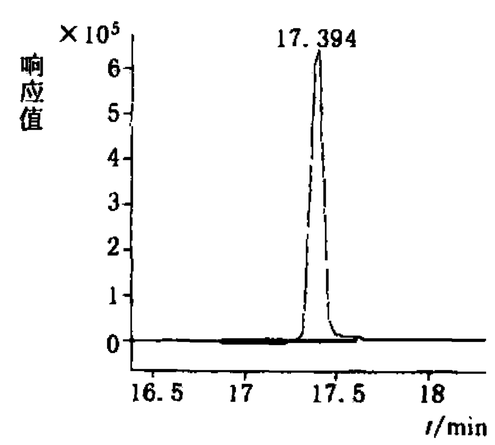
41. 甜菜胺
(desmedipham)



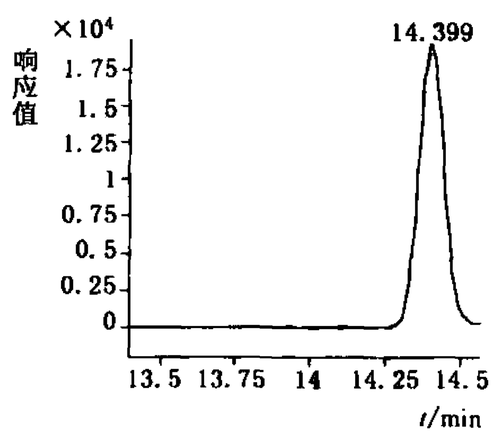
42 杀扑磷
(methidathion)



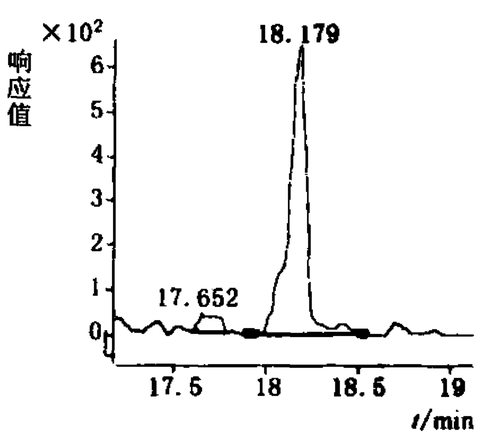
43. 烯丙菊酯
(allethrin)



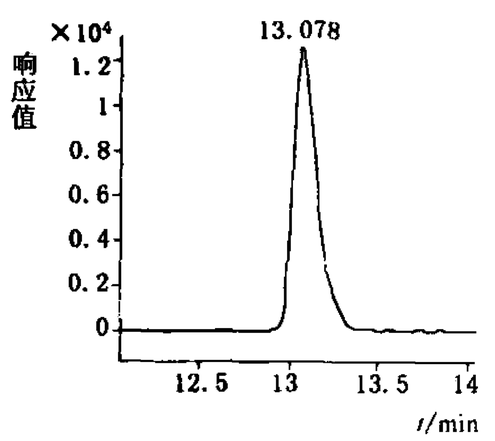
44. 二嗪磷
(diazinon)



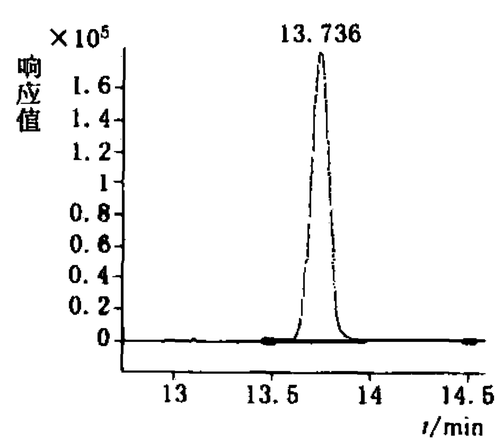
45. 敌瘟磷
(edifenphos)



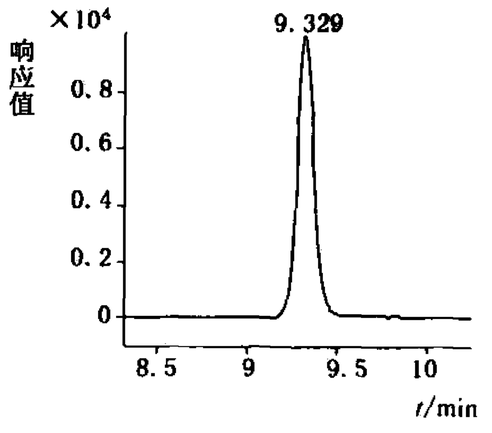
46 丙草胺
(pretilachlor)



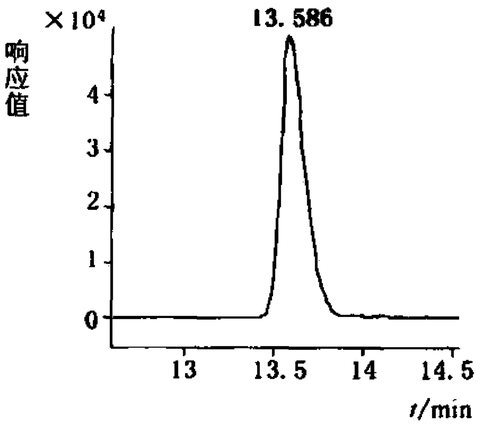
47. 氟硅唑
(flusilazole)



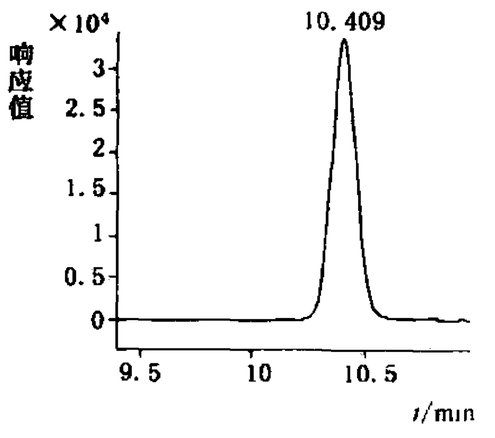
48. 丙森锌
(iprovalicarb)



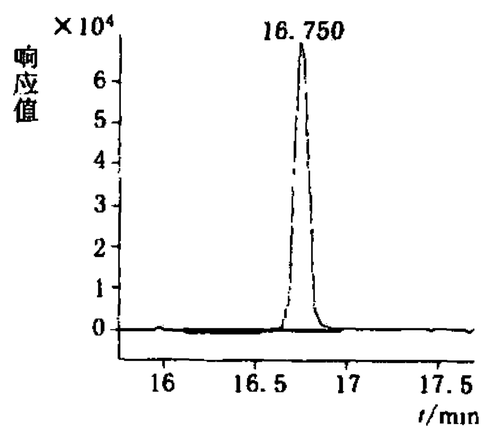
49 麦锈灵
(benodanil)



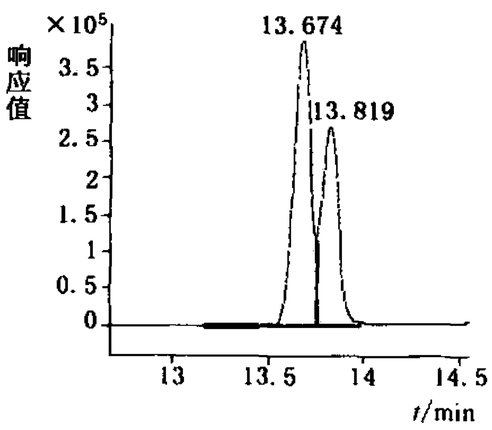
50. 氟酰胺
(flutolanil)



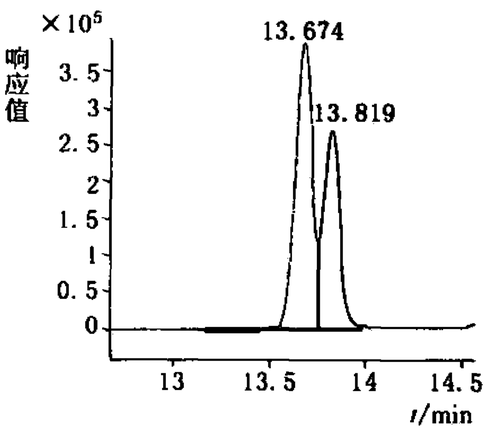
51. 氨磺磷
(famphur)



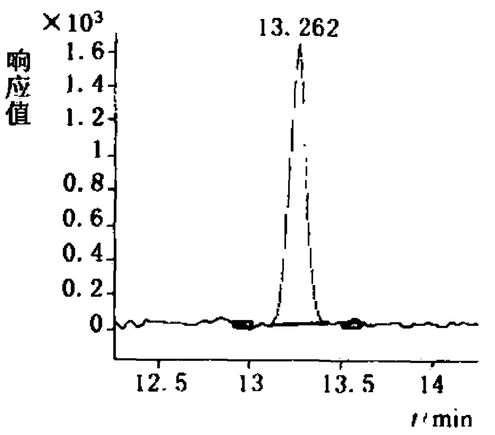
52. 苯霜灵
(benalyxyl)



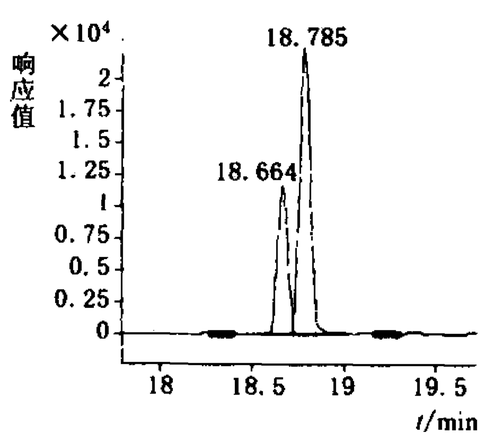
53. 苄氯三唑醇
(diclobutrazole)



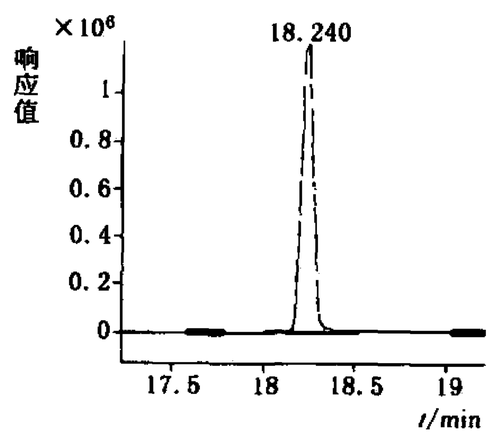
54. 乙环唑
(etaconazole)



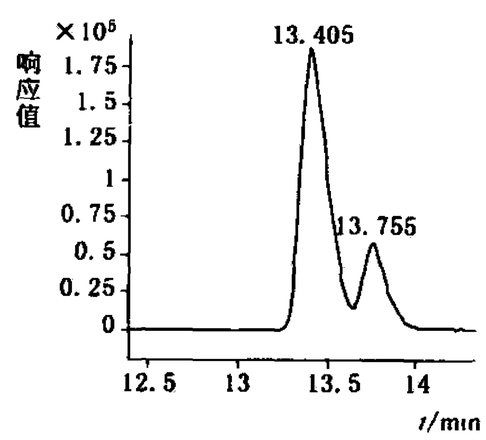
55. 氯苯嘧啶醇
(fenarimol)



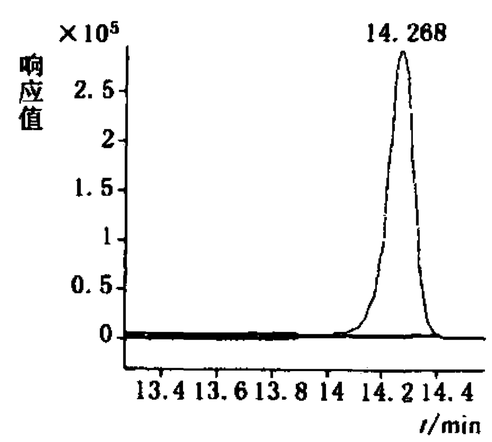
56. 胺菊酯
(tetramethirn)



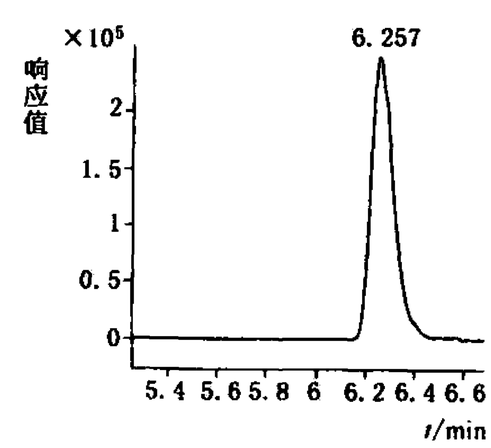
57 解草酯
(cloquintocet mexyl)



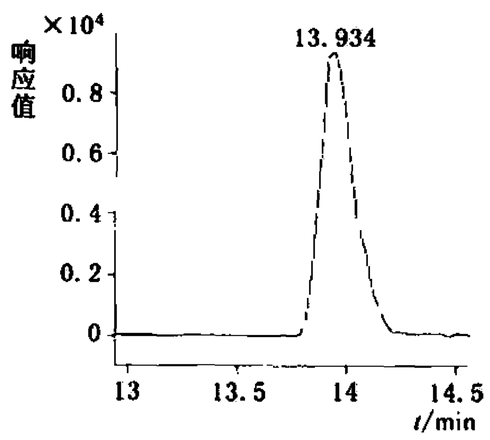
58. 联苯三唑醇
(bitertanol)



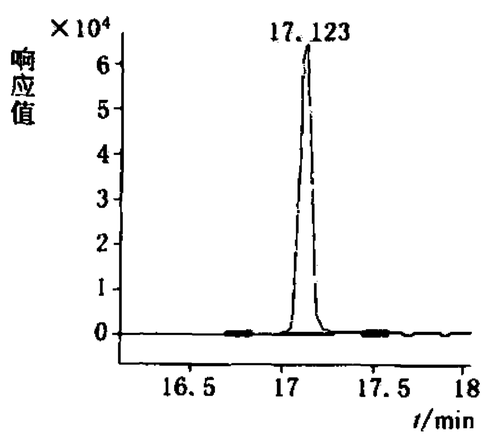
59. 吡喃草酮
(tepraloxydim)



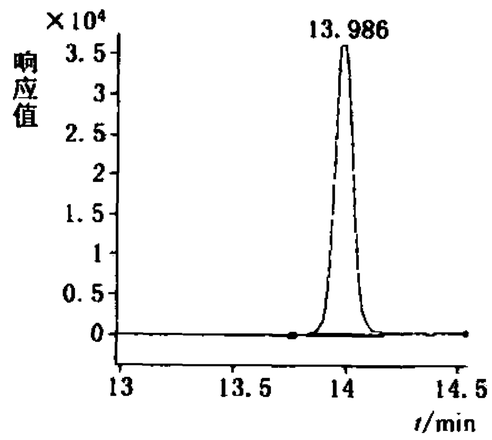
60 甲基硫菌灵
(thiophanate methyl)



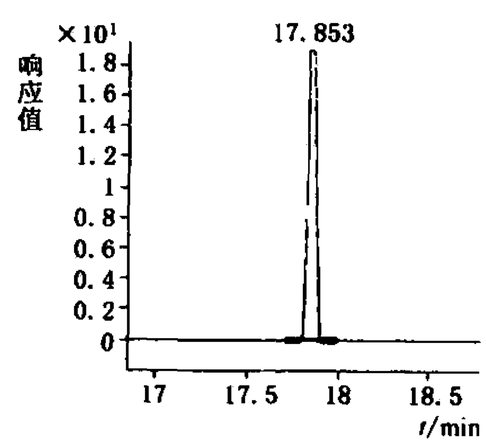
61. 益棉磷
(azinphos ethyl)



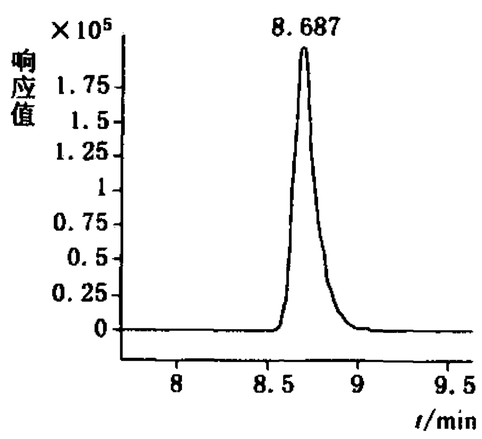
62. 杀铃脲
(triflumuron)



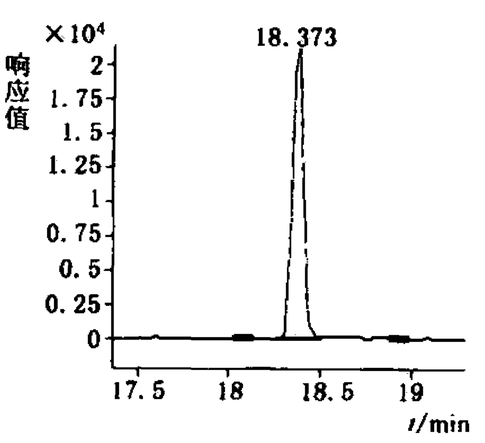
63. 异噁氟草
(isoxaflutole)



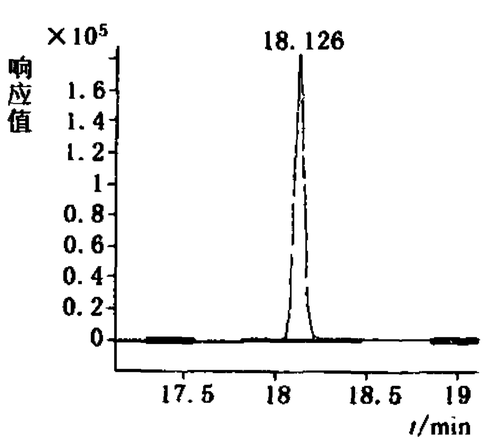
64 莎稗磷
(anilofos)



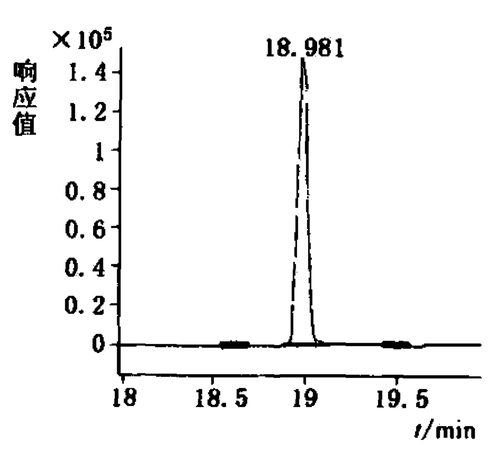
65. 硫菌灵
(thiophanat ethyl)



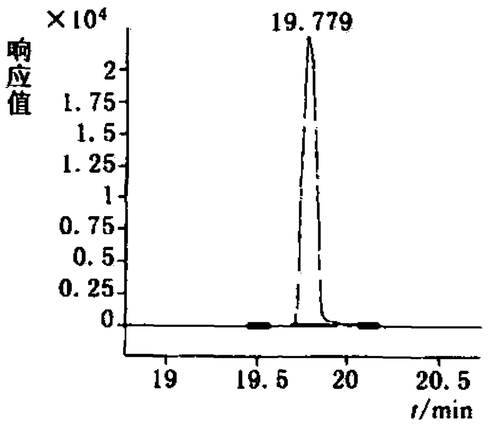
66. 喹禾灵
(quizalofop-ethyl)



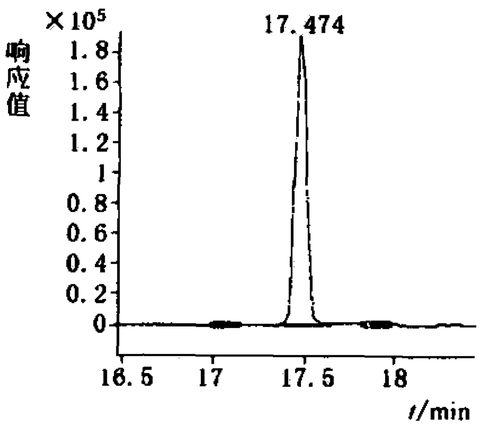
67. 精氟吡甲禾灵
(haloxyfop-methyl)



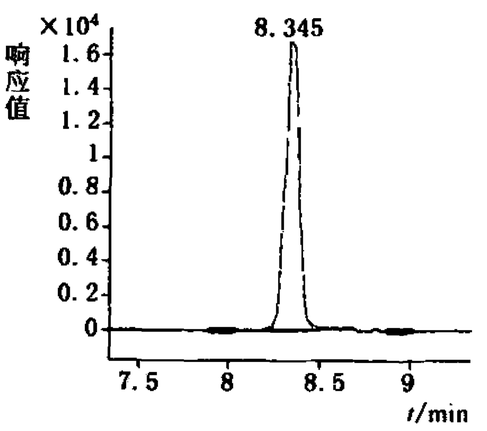
68. 吡氟禾草灵
(fluazifop butyl)



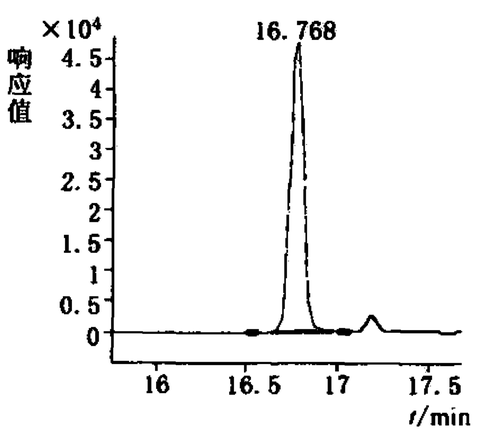
69. 乙基溴硫磷
(bromophos-ethyl)



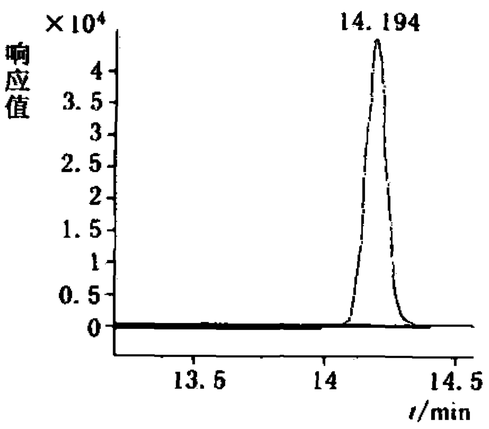
70. 地散磷
(bensulide)



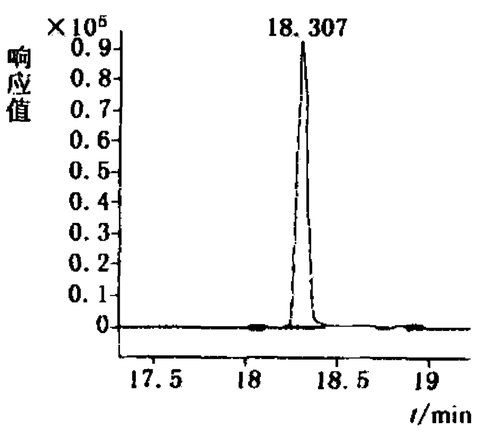
71. 醚苯磺隆
(triasulfuron)



72 溴苯烯磷
(bromfenvinfos)

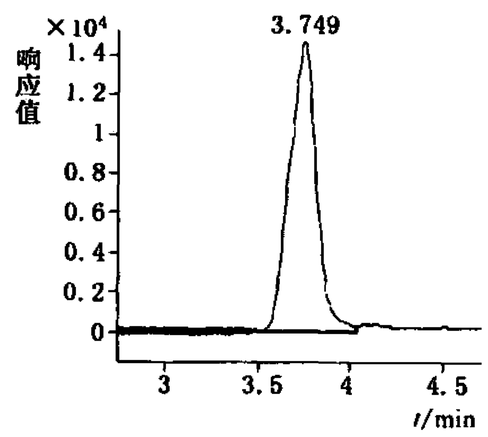


73. 嘧菌酯
(azoxystrobin)

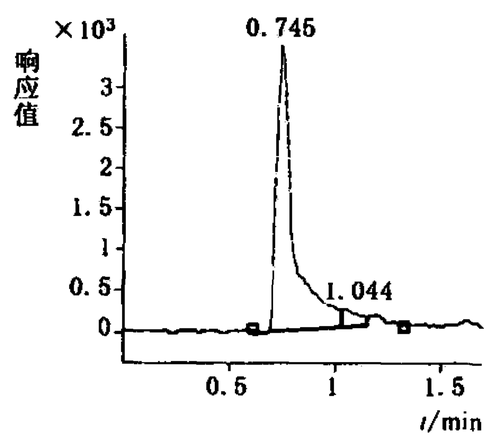


74. 茚虫威
(indoxacarb)

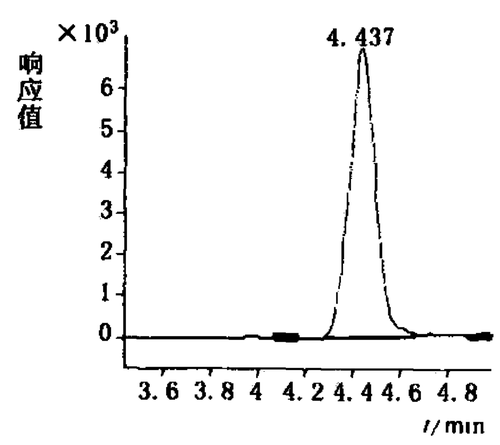
B 组



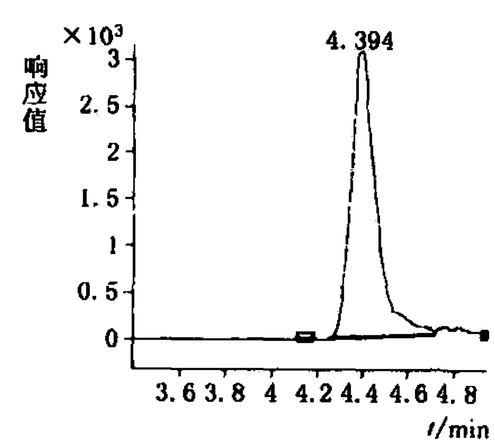
75. 棉隆
(dazomet)



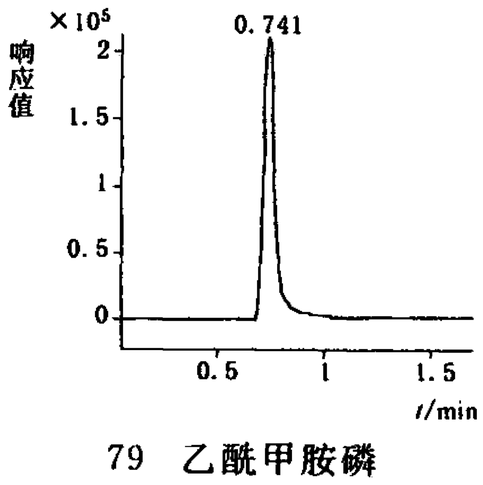
76. 烟碱
(nicotine)



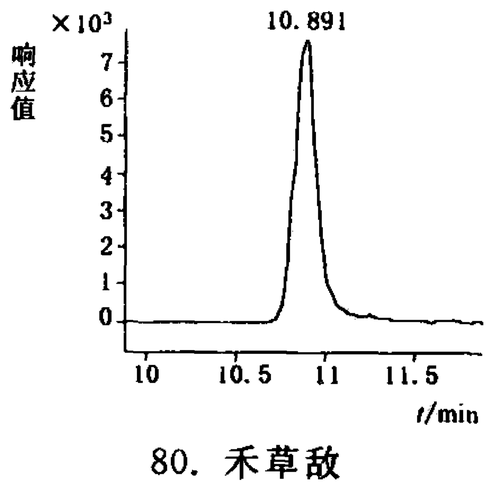
77 非草隆
(fenuron)



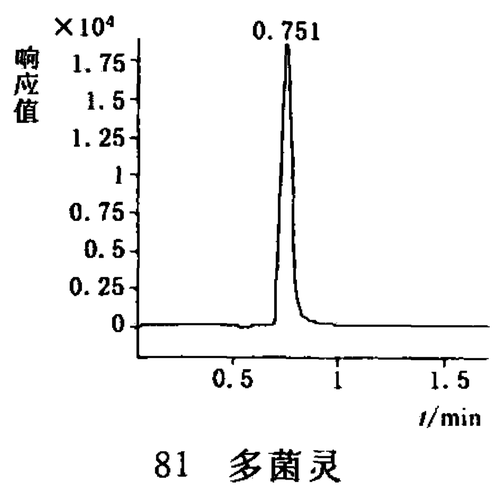
78. 鼠立克
(crimidine)



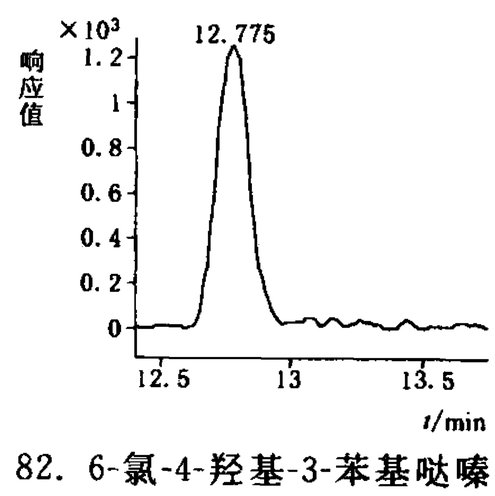
79 乙酰甲胺磷
(acephate)



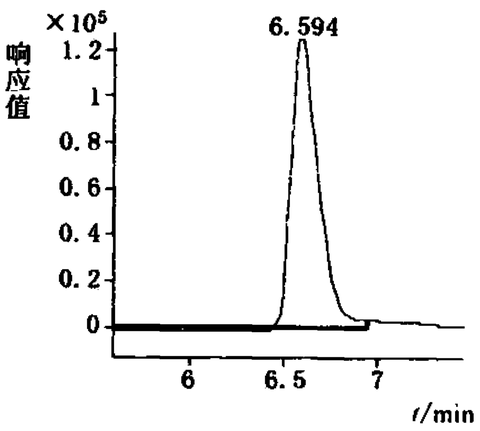
80. 禾草敌
(molinate)



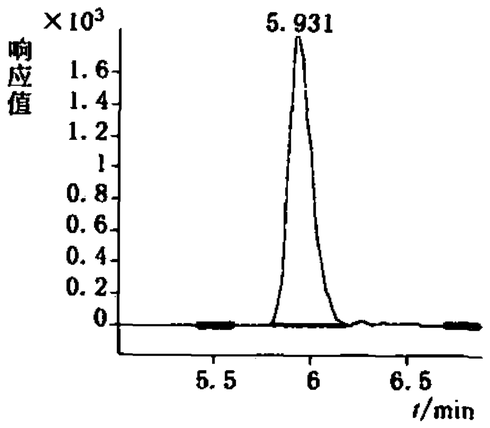
81 多菌灵
(carbendazim)



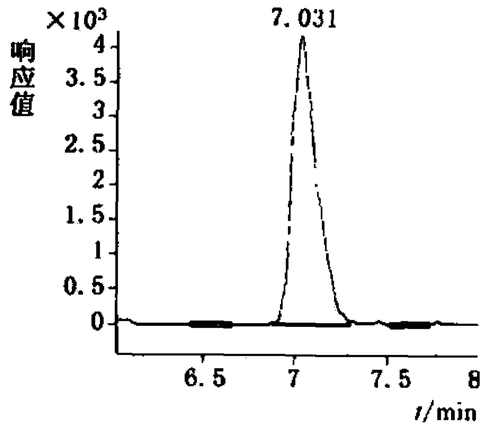
82. 6-氯-4-羟基-3-苯基哒嗪
(6-chloro-4-hydroxy-3-phenyl-pyridazin)



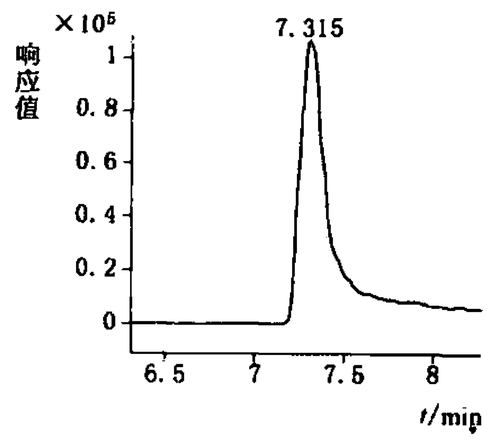
83. 残杀威
(propoxur)



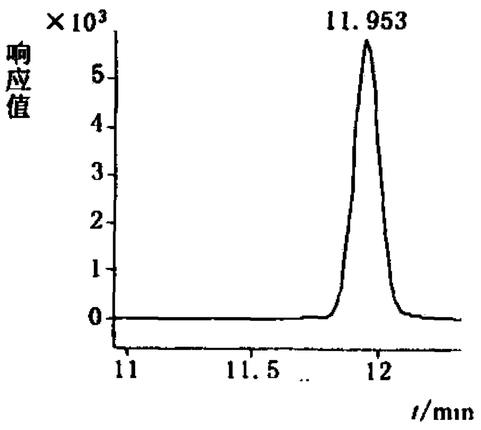
84. 异唑隆
(isouron)



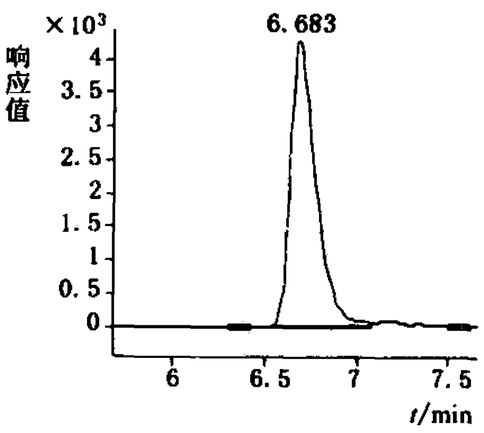
85. 绿麦隆
(chlorotoluron)



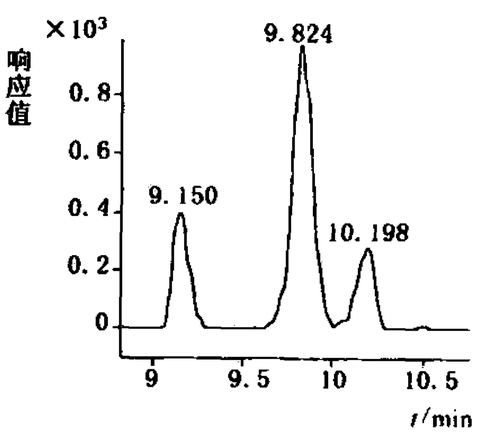
86. 久效威
(thiofanox)



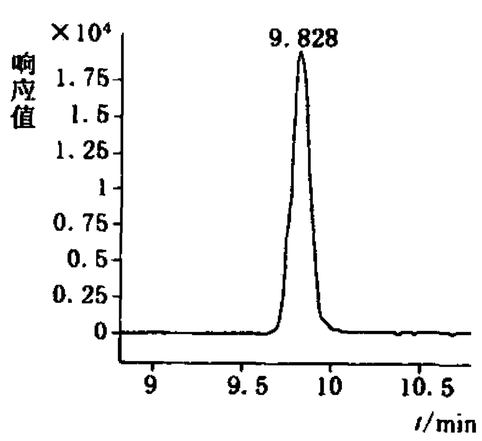
87 氯草灵
(chlorbufam)



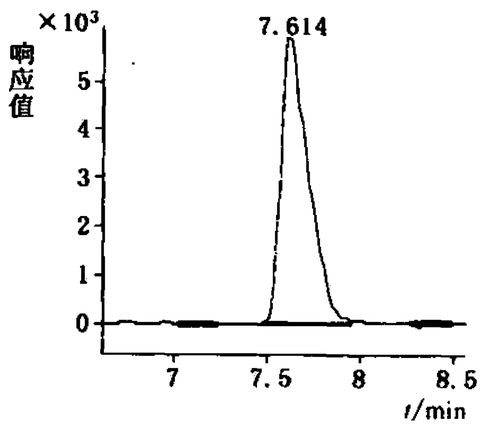
88. 噁虫威
(bendiocarb)



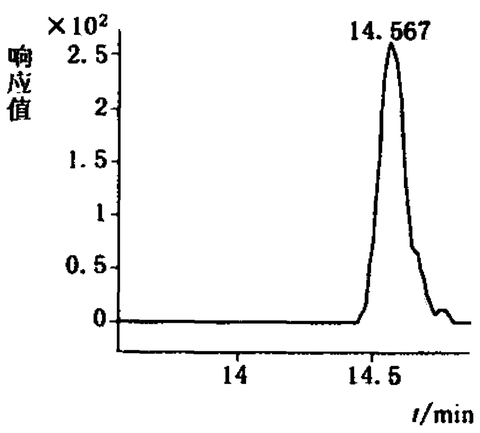
89. 扑灭津
(propazine)



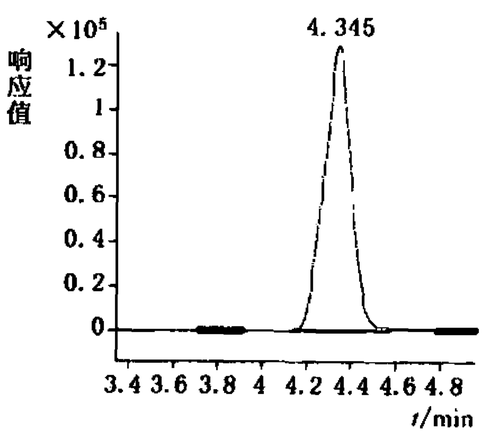
90 特丁津
(terbuthylazine)



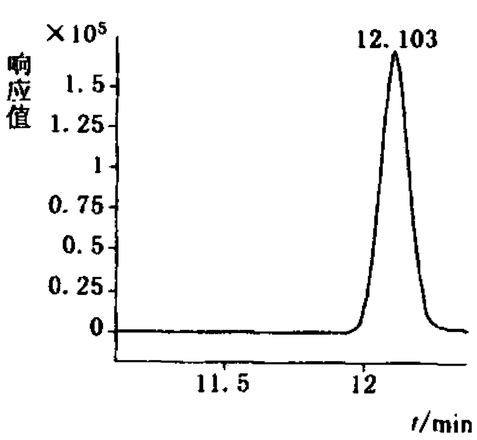
91. 敌草隆
(diuron)



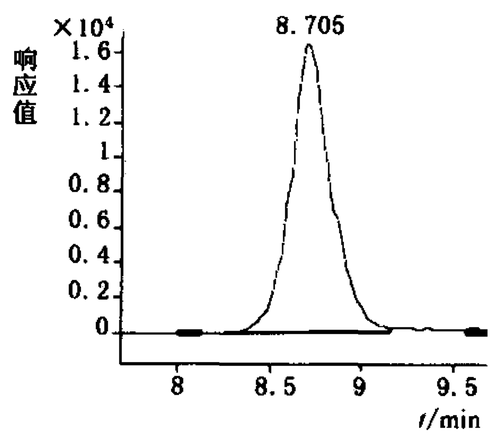
92. 氯甲硫磷
(chlormephos)



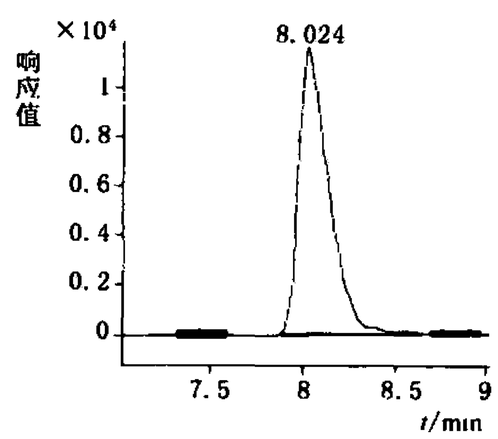
93. 噻虫胺
(clothianidin)



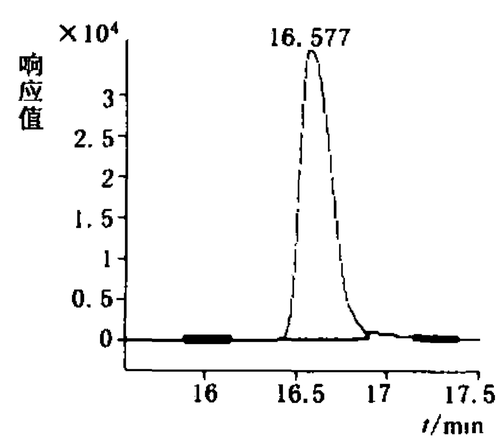
94 拿草特
(pronamide)



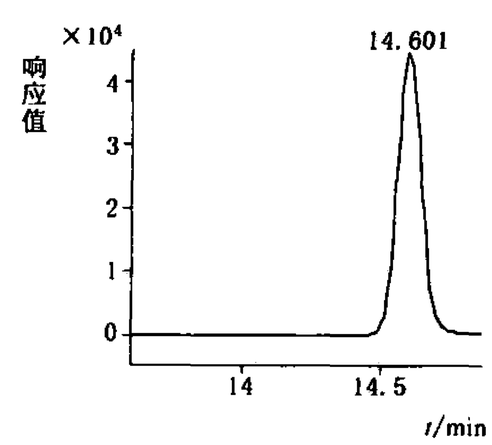
95. 二甲草胺
(dimethachloro)



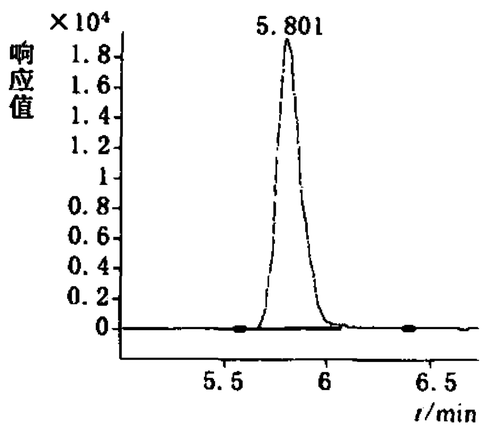
96. 溴谷隆
(methobromuron)



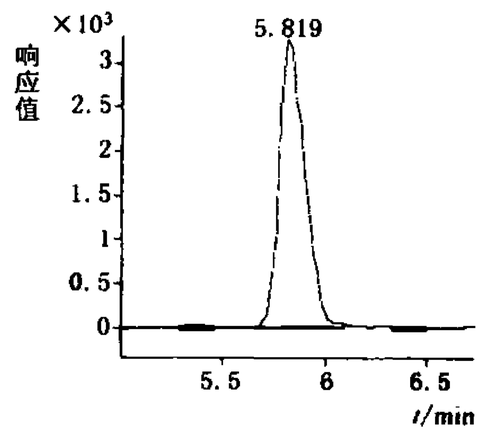
97 甲拌磷
(phorate)



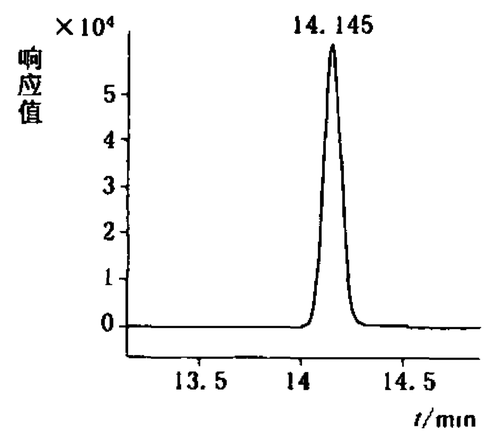
98. 苯草醚
(aclonifen)



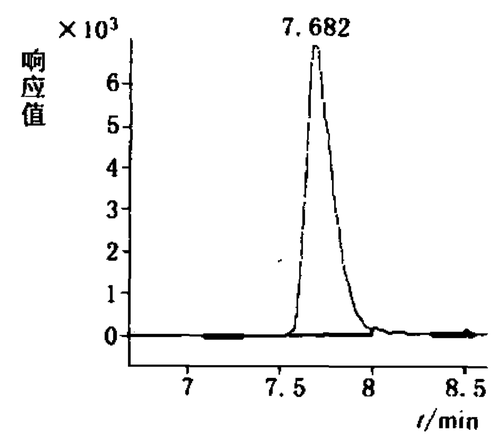
99. 地安磷
(mephosfolan)



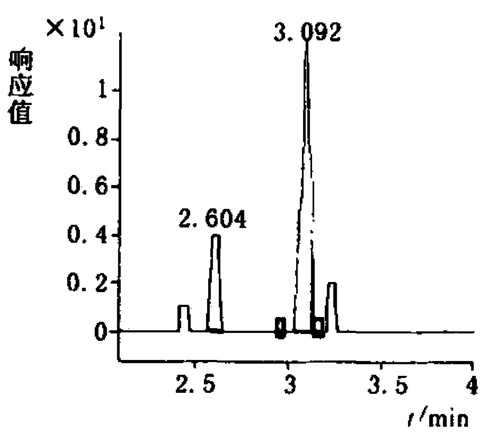
100. 脱苯甲基亚胺唑
(imibenzonazole-des-benzyl)



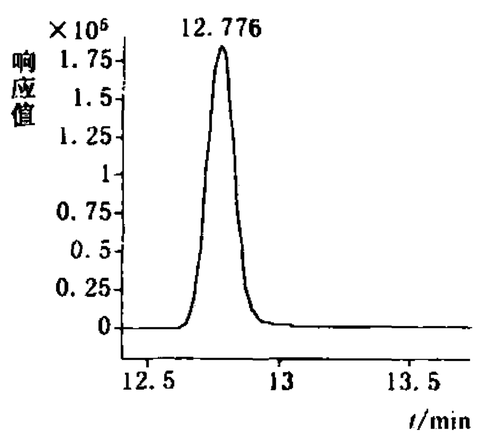
101. 草不隆
(neburon)



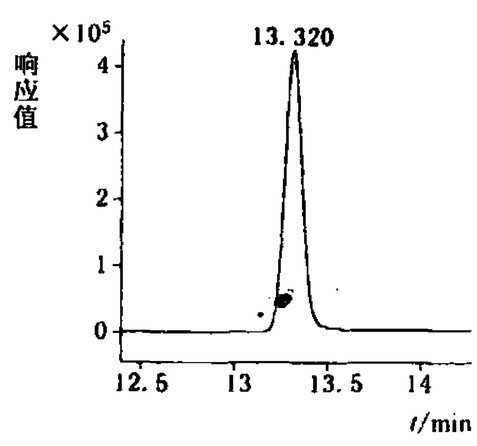
102. 精甲霜灵
(mefenoxam)



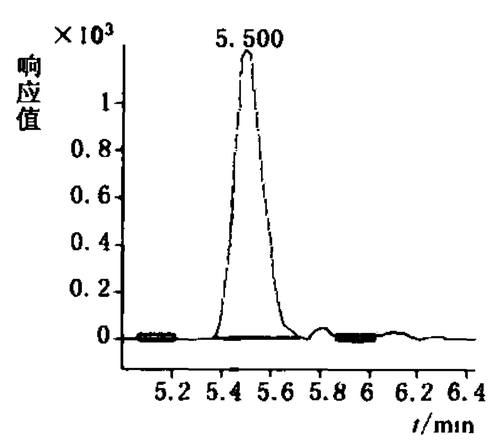
103. 发硫磷
(prothoate)



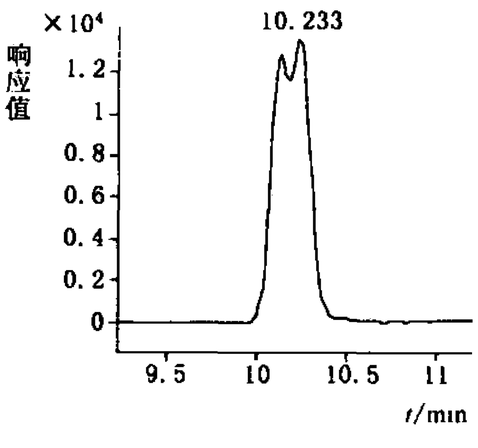
104. 乙氧呋草黄
(ethofume sate)



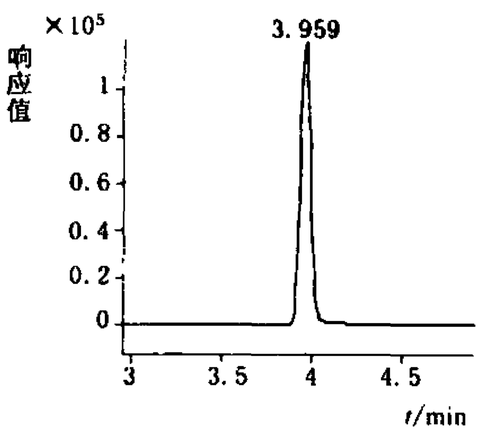
105. 异稻瘟净
(iprobenfos)



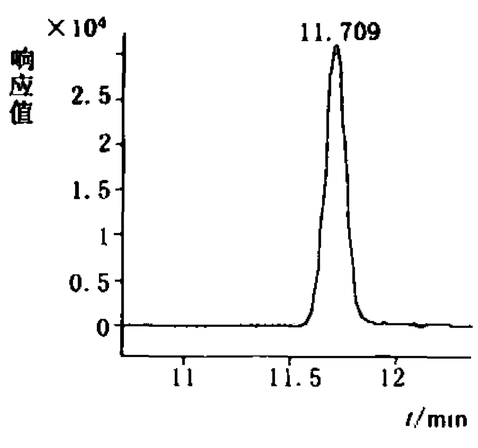
106. 特普
(TEPP)



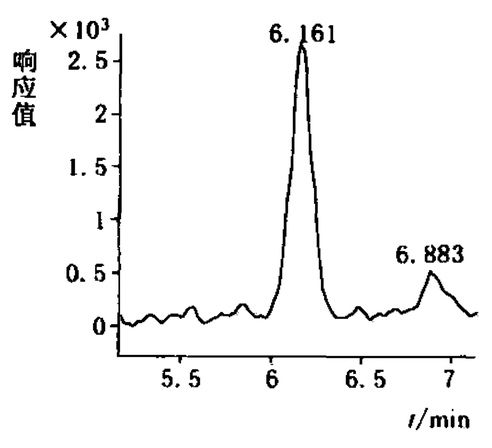
107 环丙唑醇
(cyproconazole)



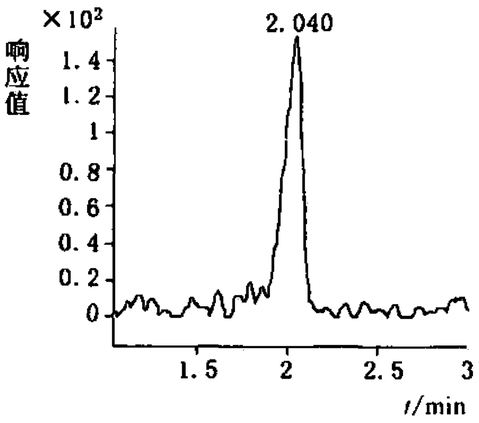
108. 噻虫嗪
(thiamethoxam)



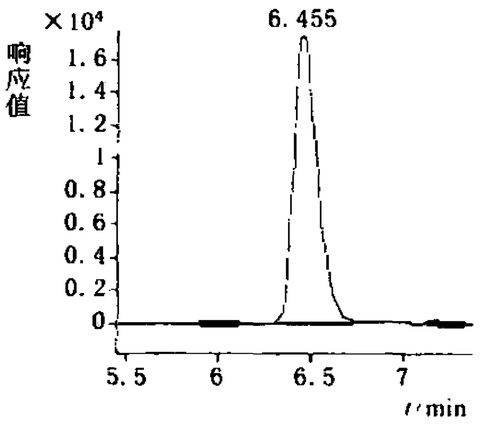
109. 育畜磷
(crufomate)



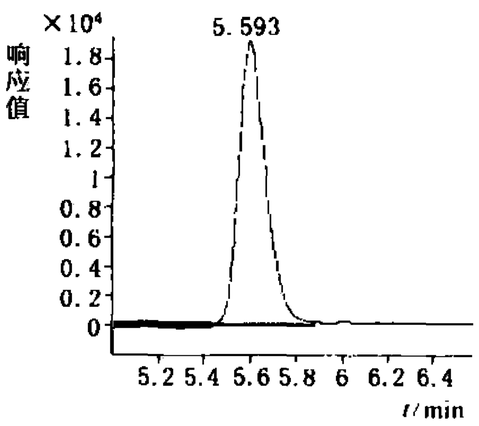
110. 乙嘧硫磷
(etrimfos)



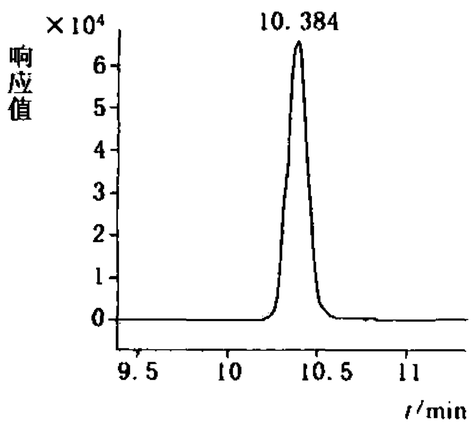
111. 杀鼠醚
(coumatetralyl)



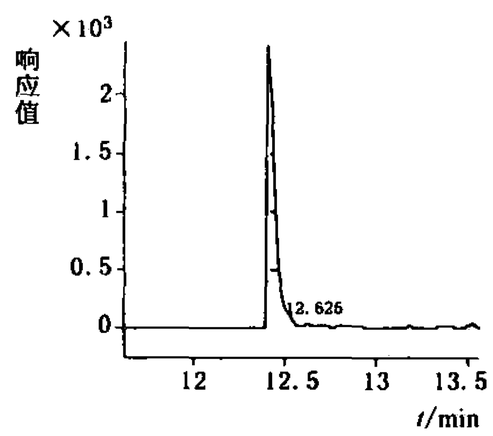
112. 赛灭磷
(cythioate)



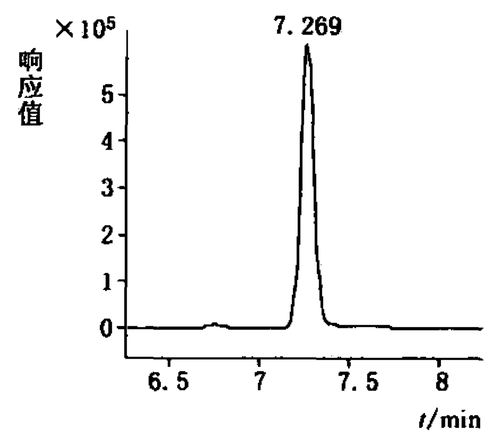
113. 磷胺
(phosphamidon)



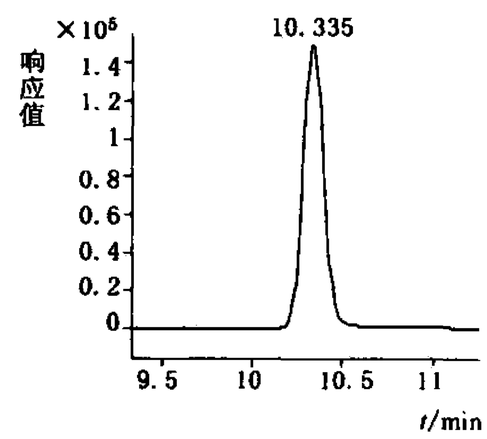
114. 甜菜宁
(phenmedipham)



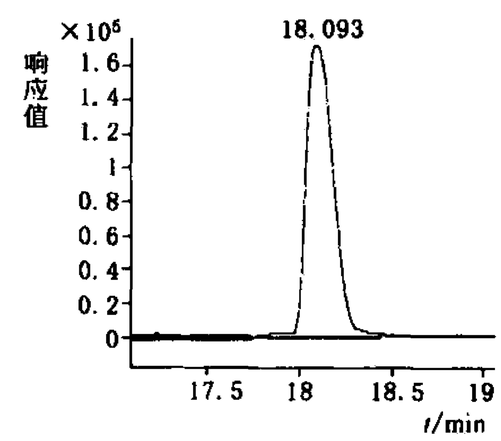
115. 环酰菌胺
(fenhexamid)



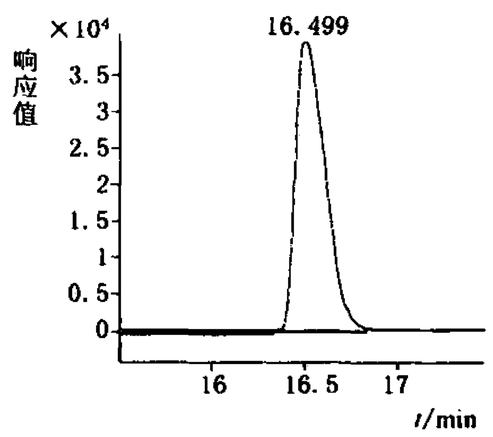
116. 粉唑醇
(flutriafol)



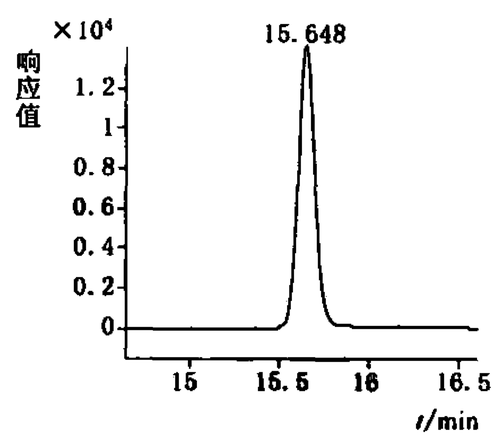
117 抑菌丙胺酯
(furalaxyl)



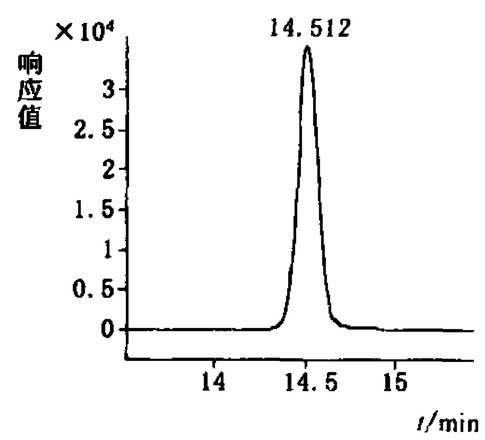
118. 生物丙烯菊酯
(bioallethrin)



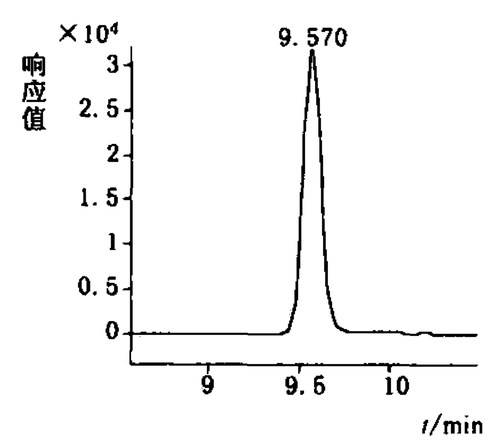
119. 苯腈磷
(cyanofenphos)



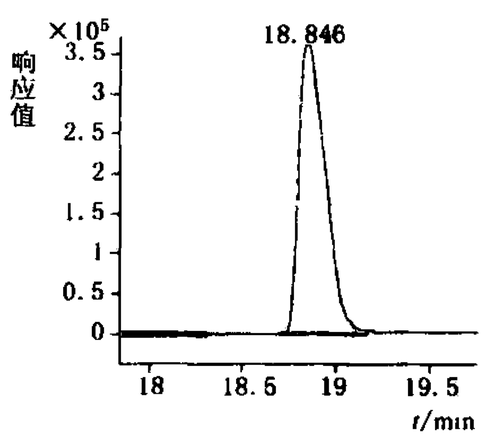
120. 甲基嘧啶磷
(pirimiphos methyl)



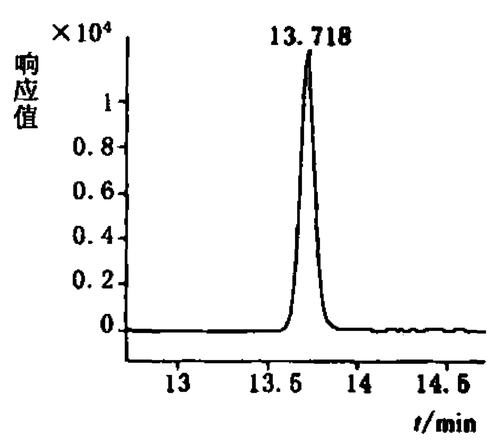
121. 噻嗪酮
(buprofezin)



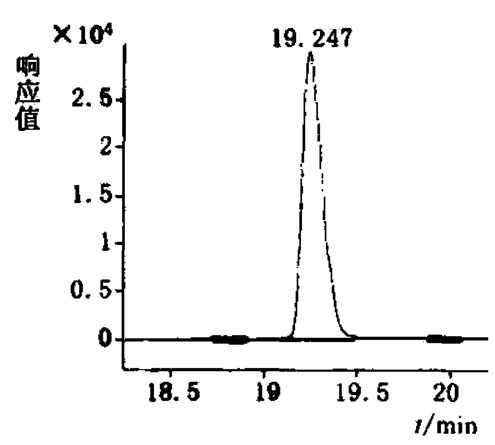
122. 乙拌磷砜
(disulfoton sulfone)



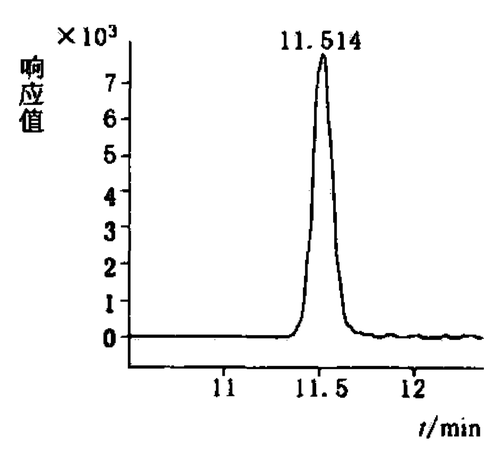
123. 喹螨醚
(fenazaquin)



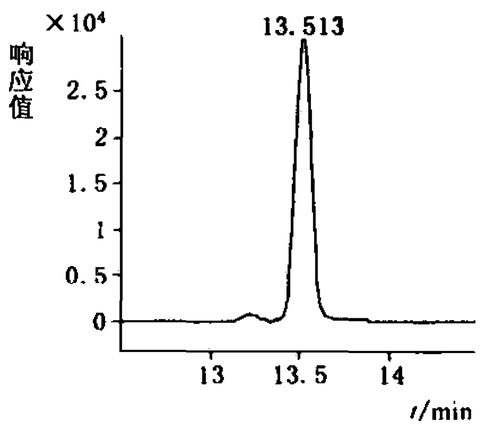
124 三唑磷
(triazophos)



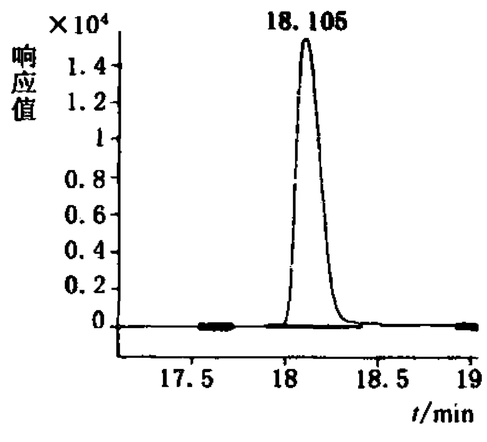
125. 脱叶磷
(DEF)



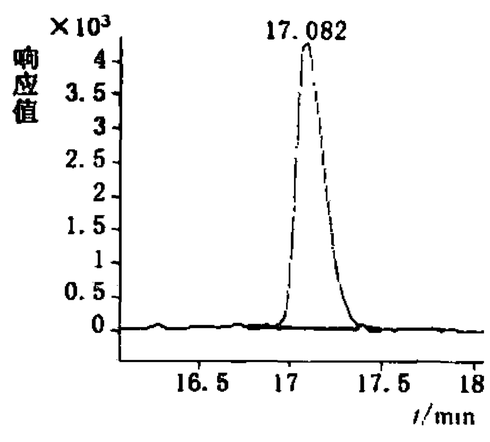
126. 环酯草醚
(pyriftalid)



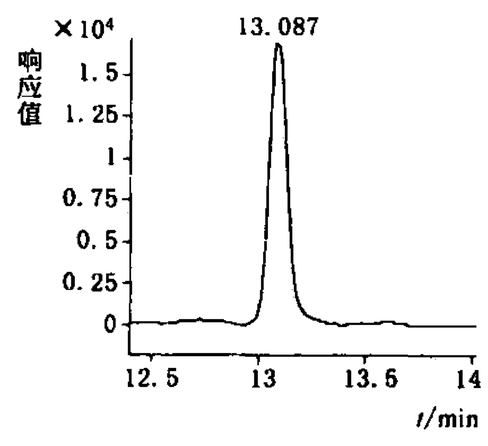
127 叶菌唑
(metconazole)



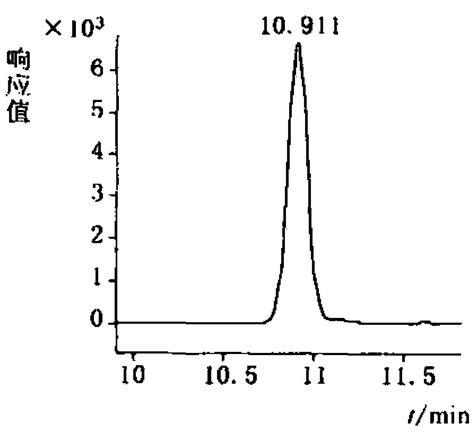
128 蚊蝇醚
(pyriproxyfen)



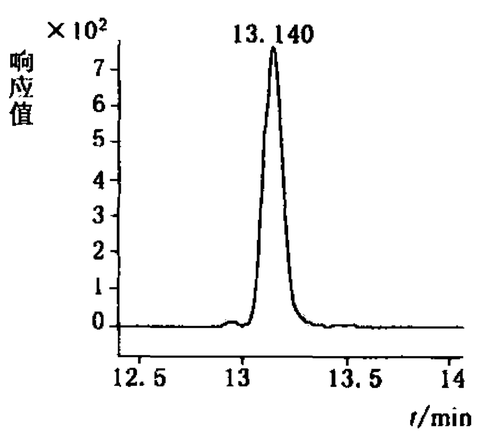
129 噻草酮
(cycloxydim)



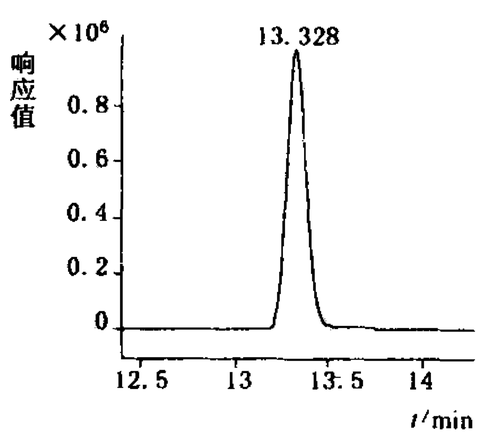
130. 异噁酰草胺
(isoxaben)



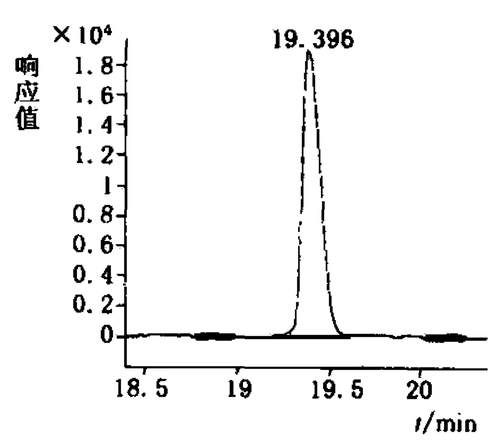
131. 呋草酮
(flurtamone)



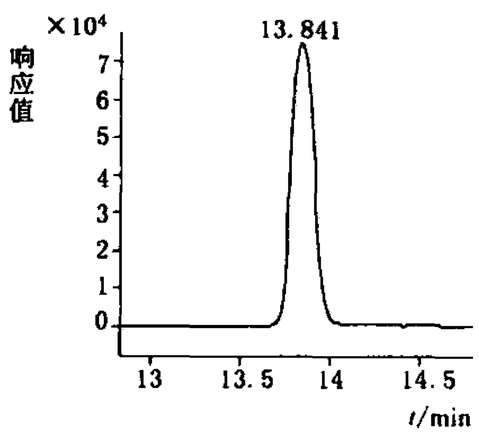
132. 氟乐灵
(trifluralin)



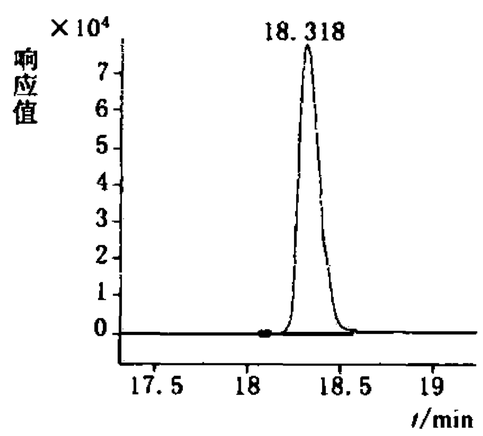
133. 甲基麦草氟异丙酯
(flamprop methyl)



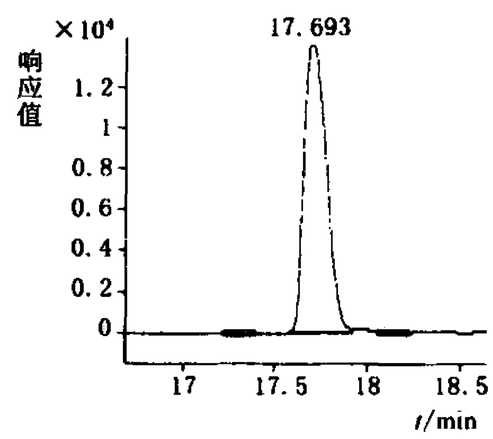
134. 生物苄呋菊酯
(bioresmethrin)



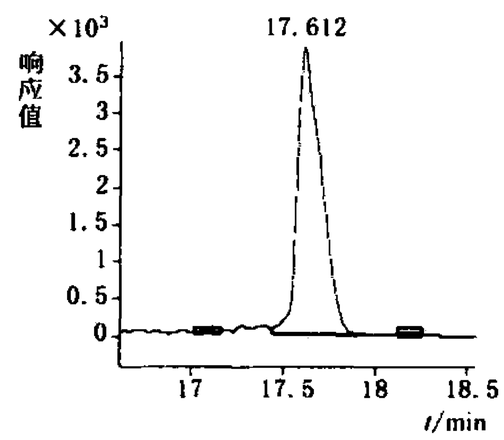
135. 丙环唑
(propiconazole)



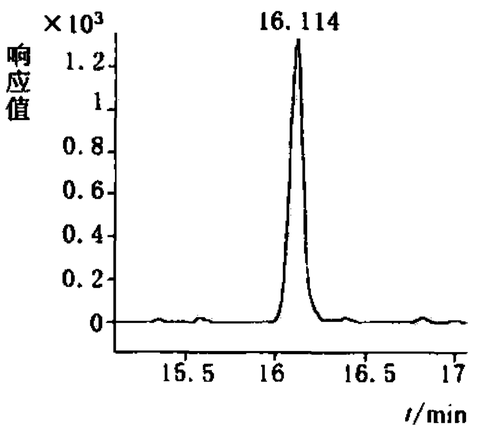
136. 毒死蜱
(chlorpyrifos)



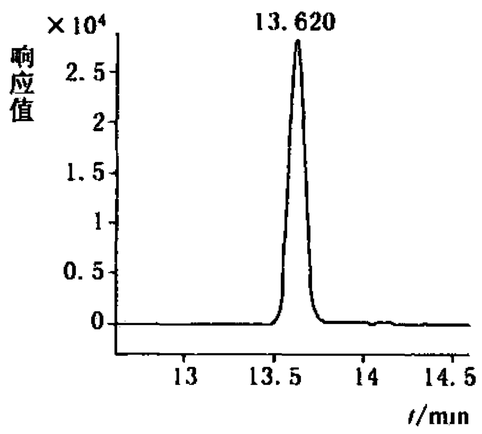
137 氯乙氟灵
(fluchloralin)



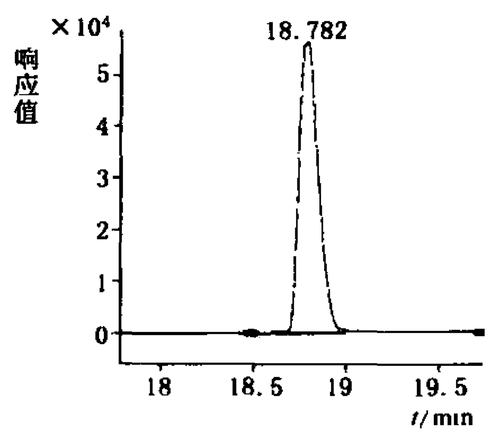
138. 烯草酮
(clethodim)



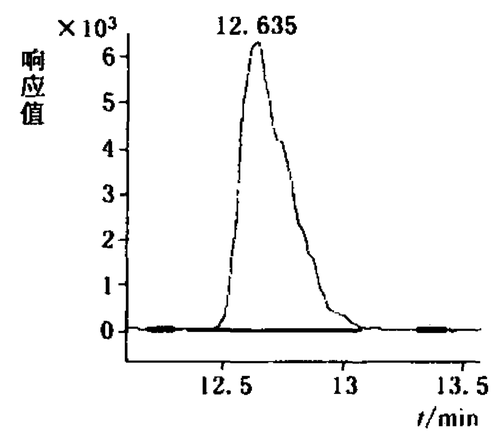
139. 麦草氟异丙酯
(flamprop isopropyl)



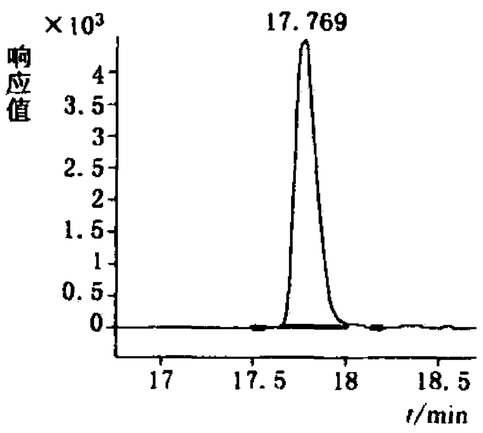
140. 杀虫畏
(tetrachlorvinphos)



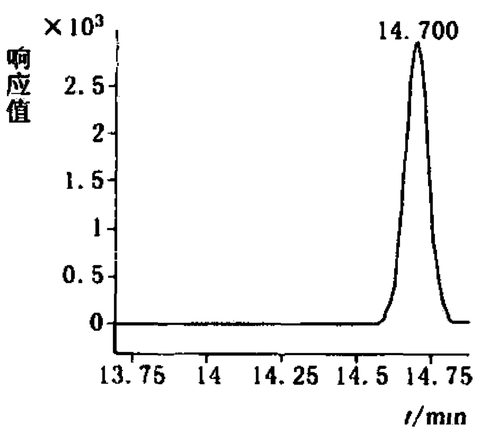
141. 炔螨特
(propargite)



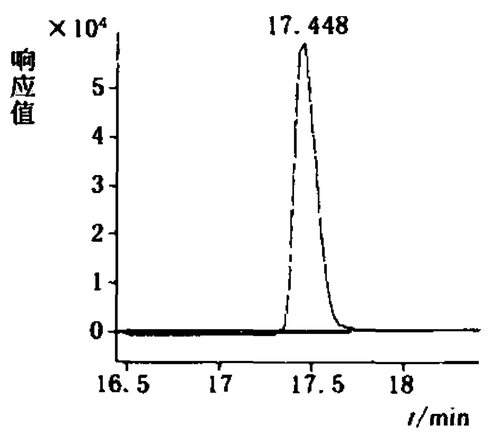
142. 糠菌唑
(bromuconazole)



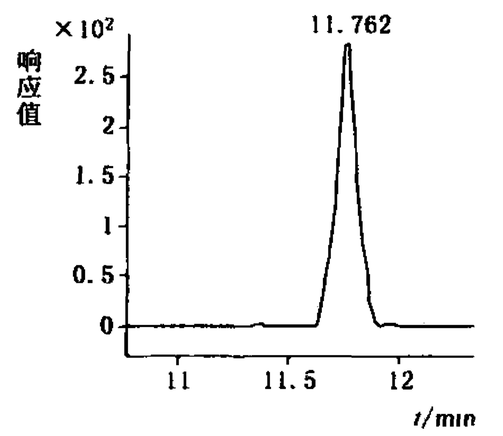
143. 氟吡酰草胺
(picolinafen)



144. 氟噻乙草酯
(fluthiacet methyl)

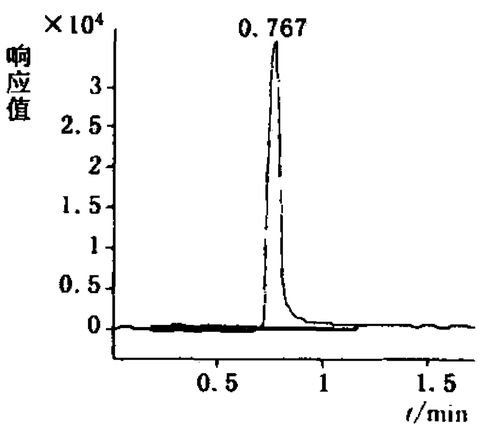


145. 肟菌酯
(trifloxystrobin)

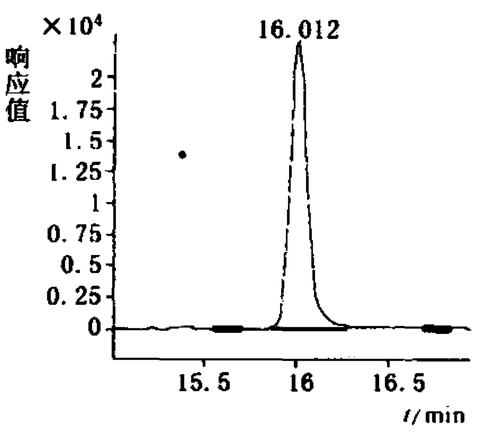


146. 氯嘧磺隆
(chlorimuron ethyl)

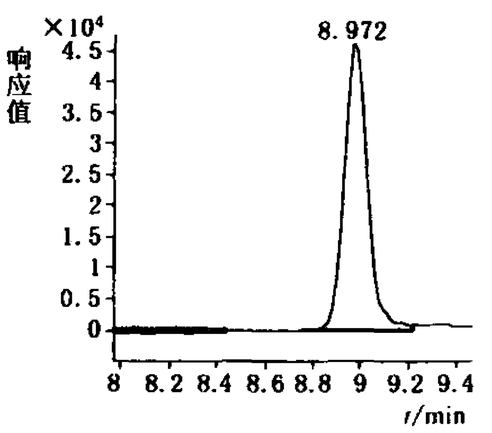
C 组



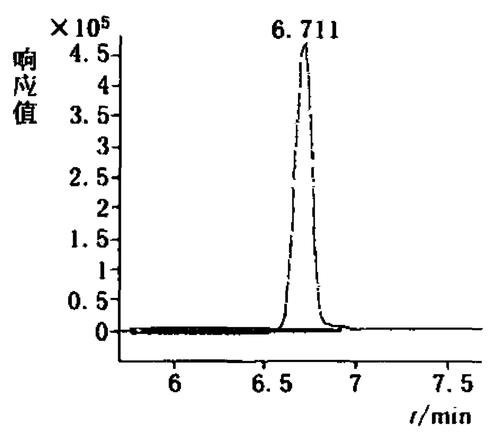
147. 甲胺磷
(methamidophos)



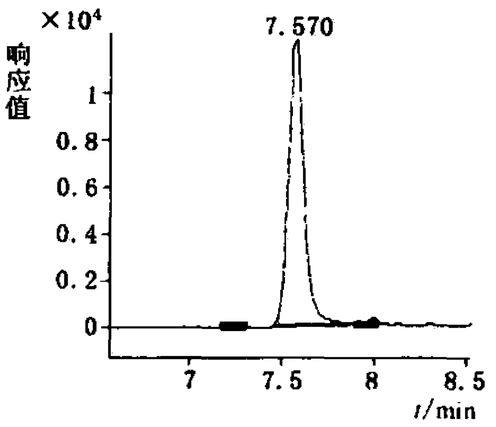
148. 茵草敌
(EPTC)



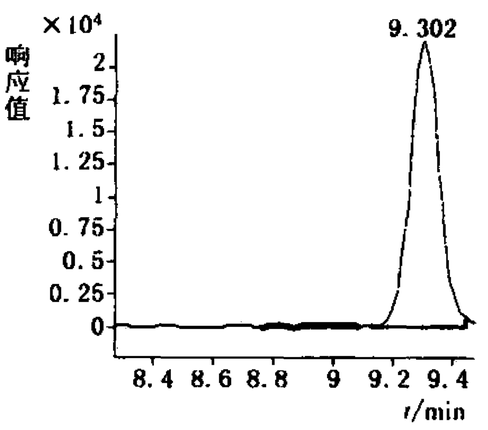
149 避蚊胺
(diethyltoluamide)



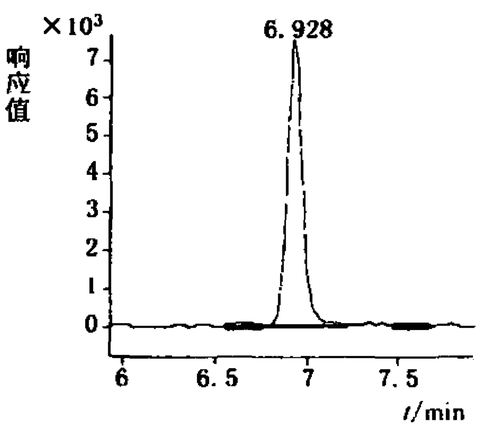
150. 灭草隆
(monuron)



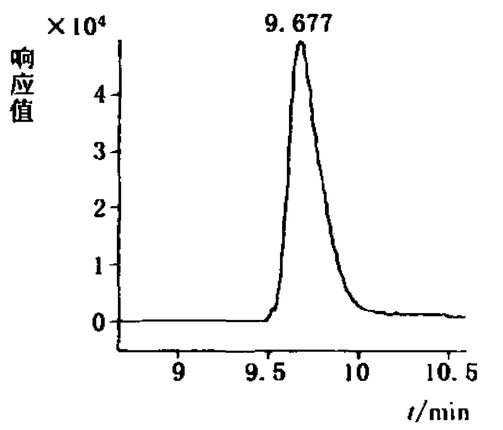
151. 嘧霉胺
(pyrimethanil)



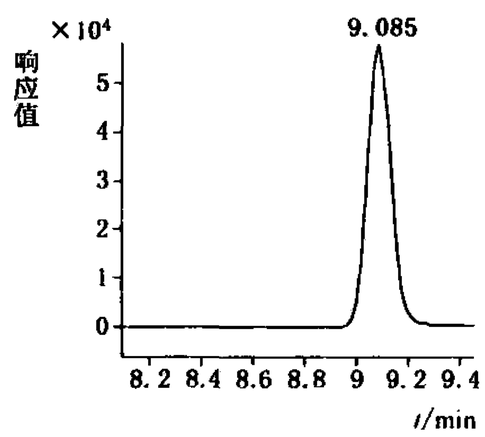
152. 黑穗胺
(fenfuram)



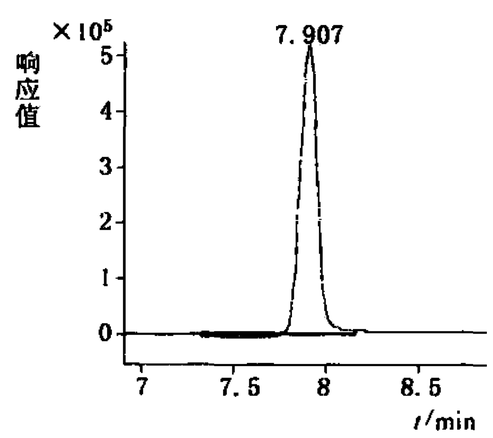
153. 灭藻醌
(quinoclamine)



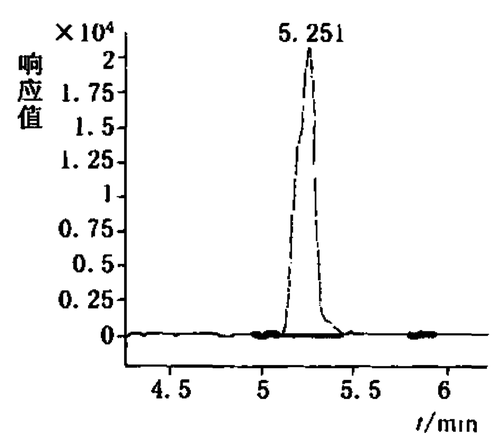
154. 仲丁威
(fenobucarb)



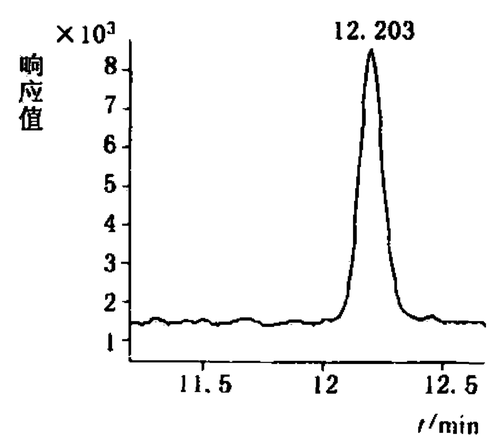
155. 敌稗
(propanil)



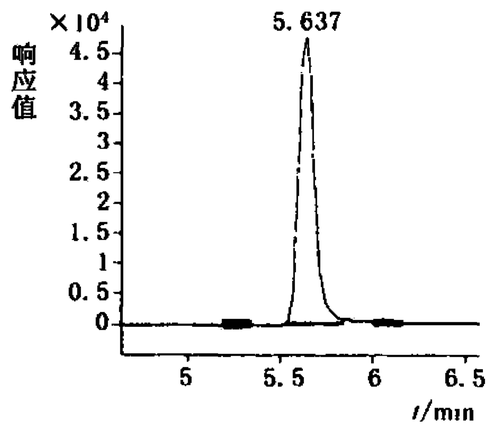
156. 克百威
(carbofuran)



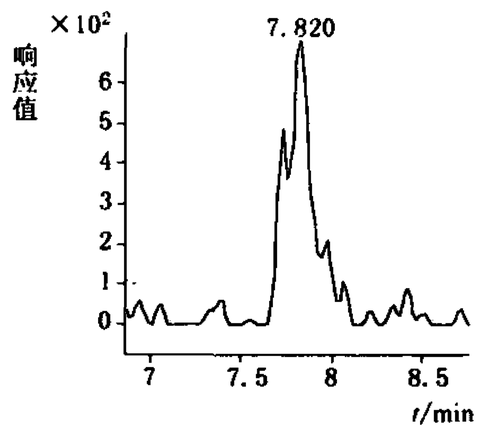
157 啶虫脒
(acetamiprid)



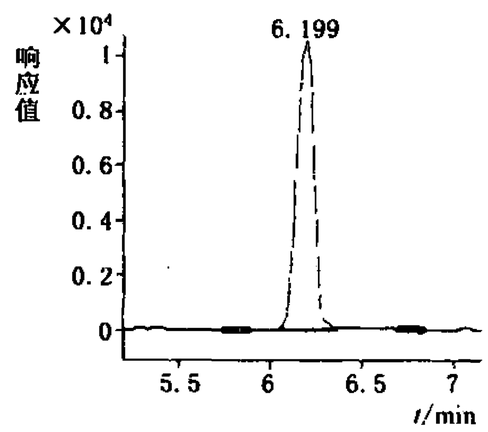
158. 嘧菌胺
(mepanipyrim)



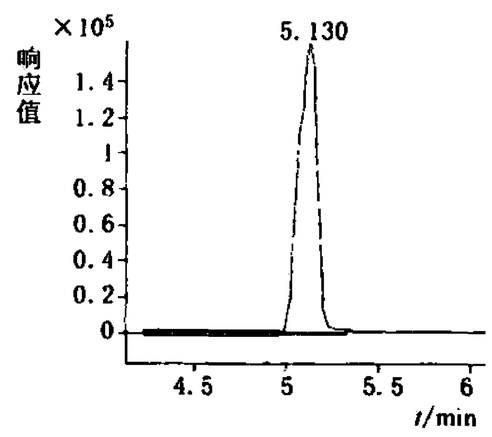
159 扑灭通
(prometon)



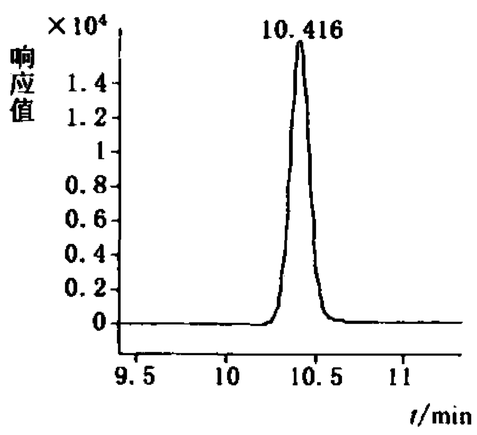
160 甲硫威
(methiocarb)



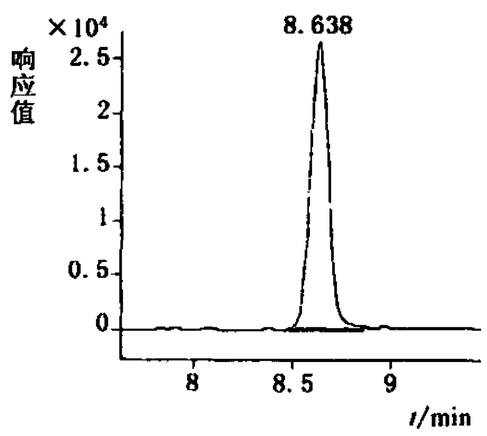
161. 甲氧隆
(metoxuron)



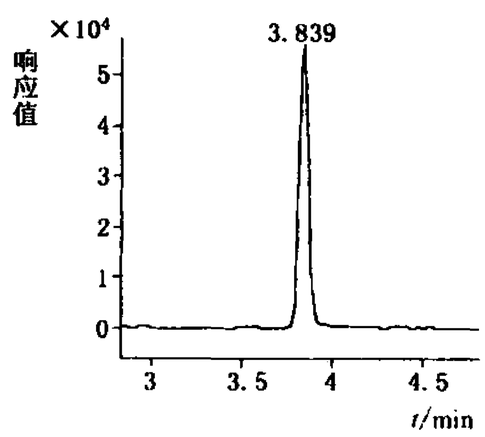
162. 乐果
(dimethoate)



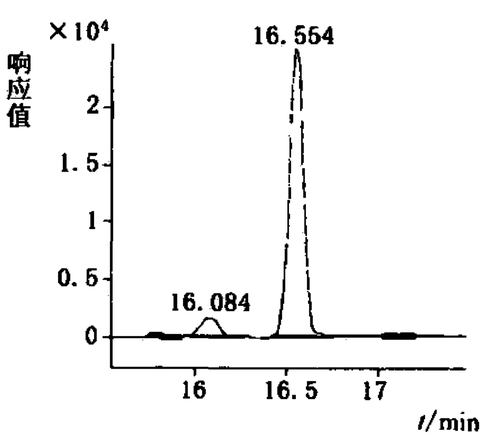
163. 呋菌胺
(methfuroxam)



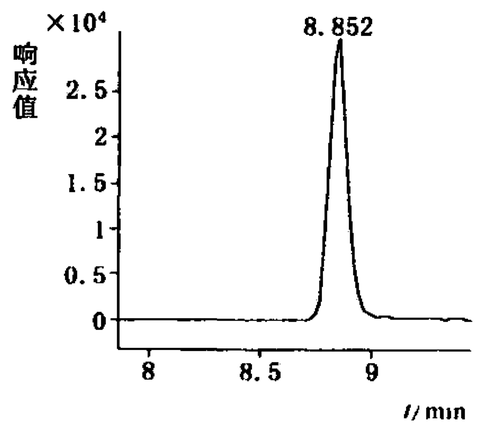
164. 伏草隆
(fluometuron)



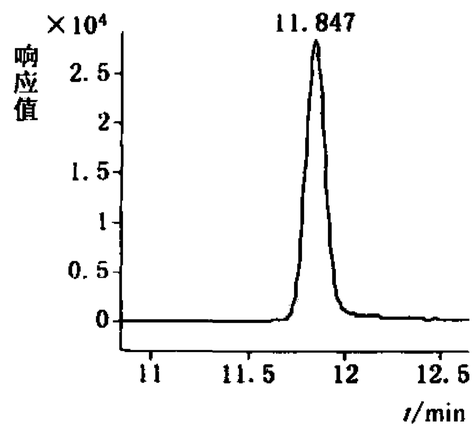
165. 百治磷
(dicrotophos)



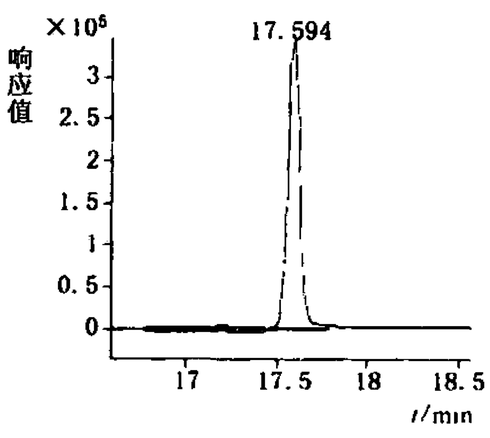
166. 庚酰草胺
(monalide)



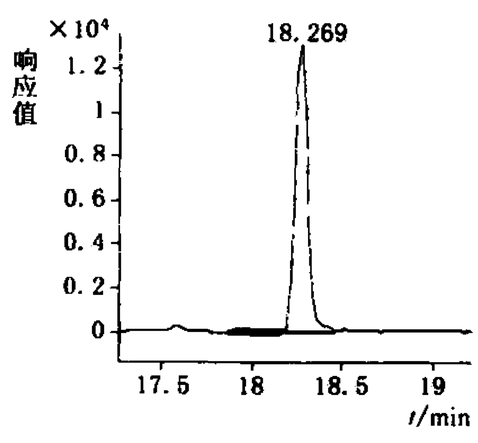
167 双苯酰草胺
(diphenamid)



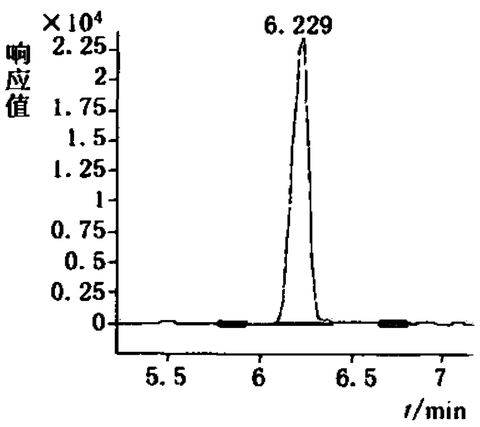
168 灭线磷
(ethoprophos)



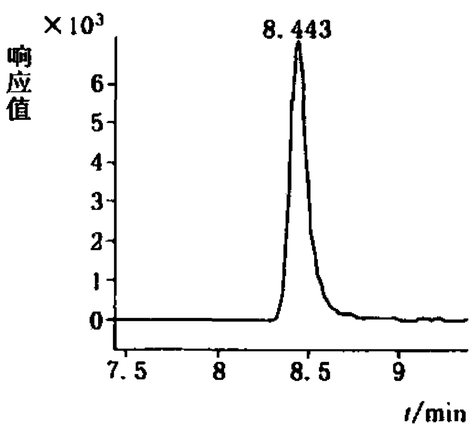
169 地虫硫磷
(fonofos)



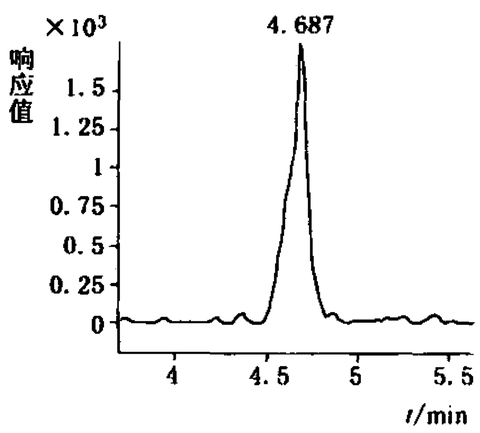
170. 土菌灵
(etridiazol)



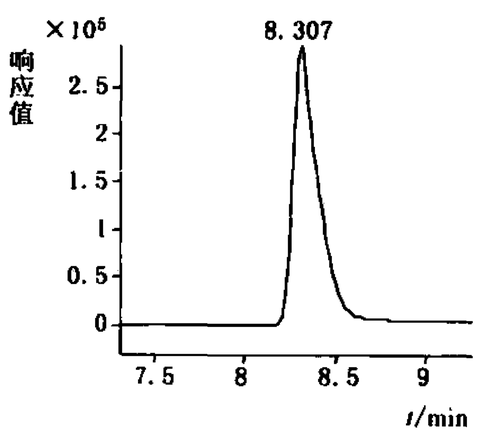
171. 环嗪酮
(hexazinone)



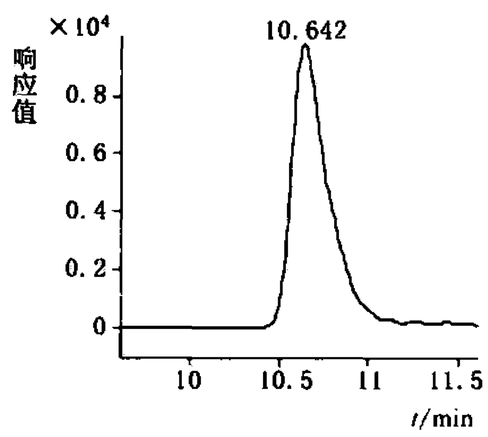
172. 阔草净
(dimethametryn)



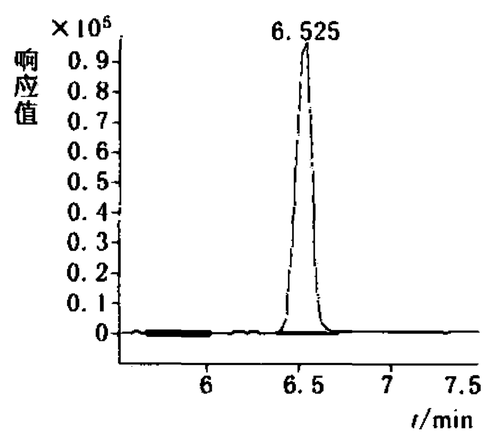
173. 敌百虫
(trichlorphon)



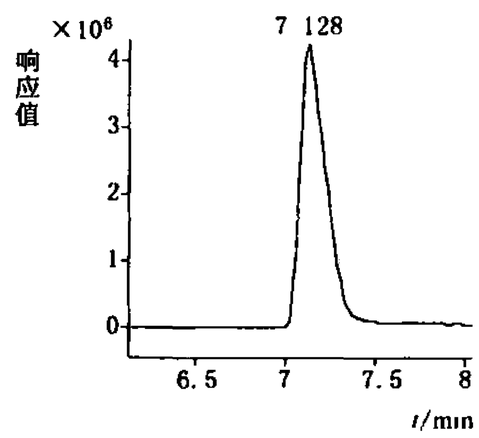
174. 内吸磷
[demeton(o+s)]



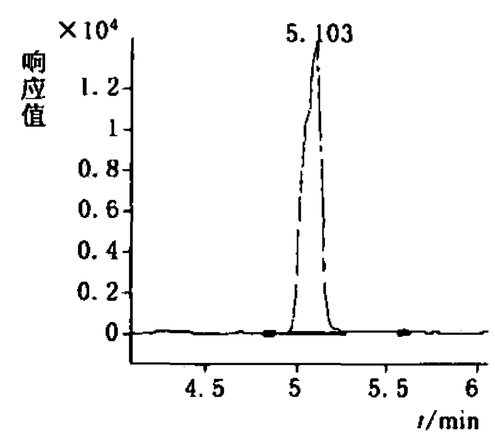
175. 解草酮
(benoxacor)



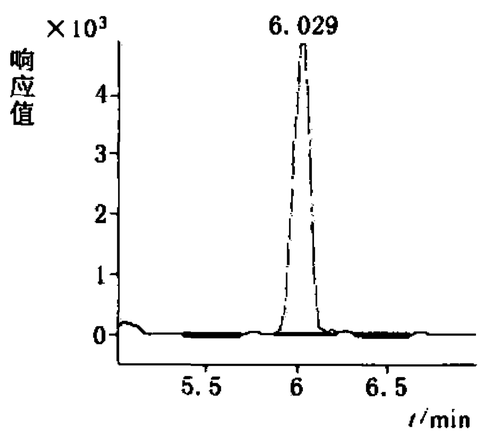
176. 除草定
(bromacil)



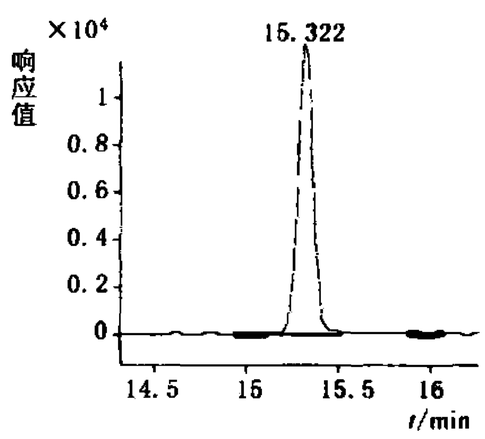
177 甲拌磷亚砜
(phorate sulfoxide)



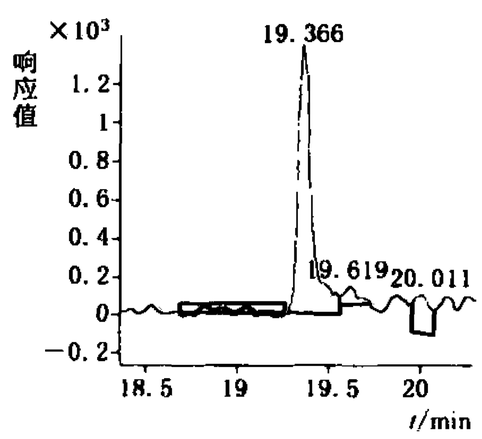
178. 溴莠敏
(brompyrazon)



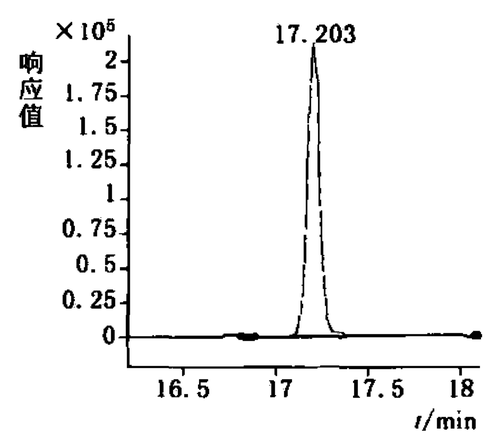
179. 氧化萎锈灵
(oxycarboxin)



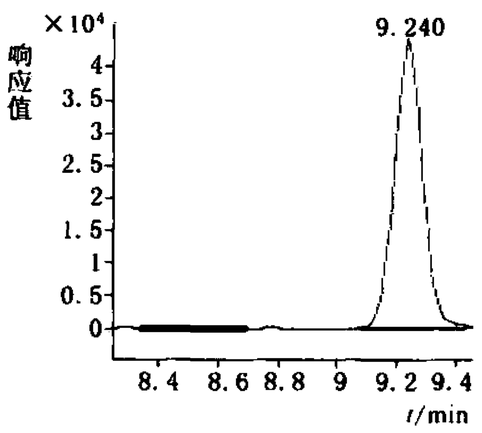
180 灭锈胺
(mepronil)



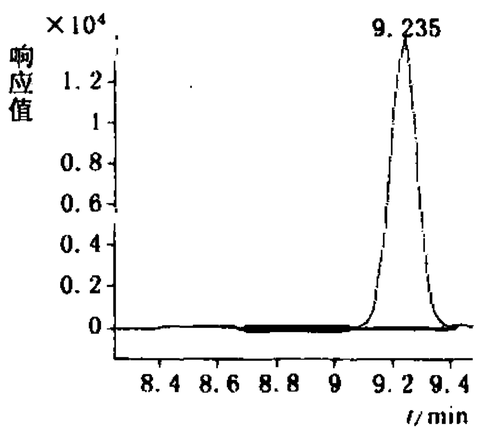
181. 乙拌磷
(disulfoton)



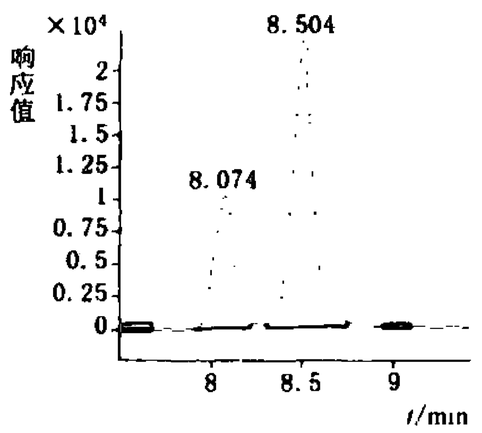
182 倍硫磷
(fenthion)



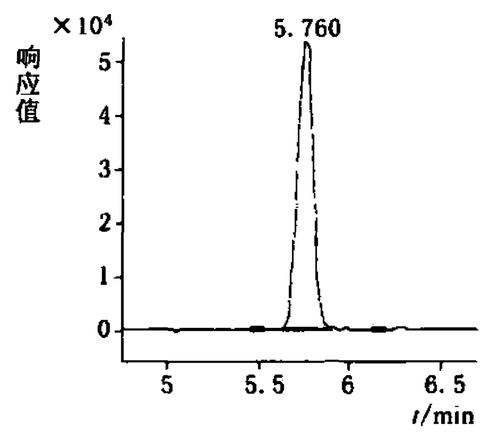
183. 甲霜灵
(metalaxyl)



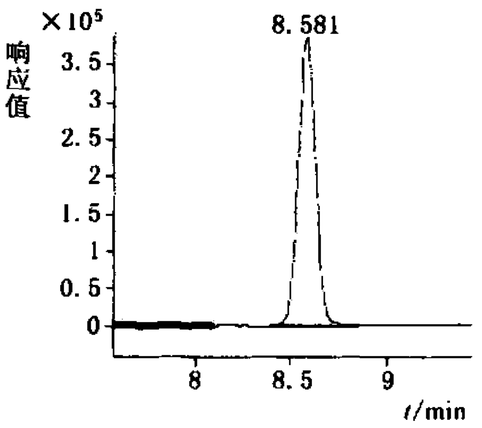
184. 甲呋酰胺
(ofurace)



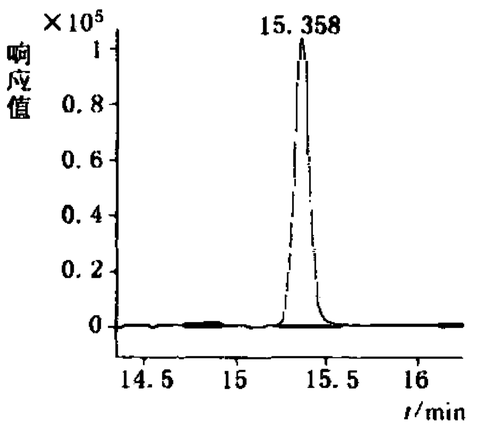
185. 吗菌灵
(dodemorph)



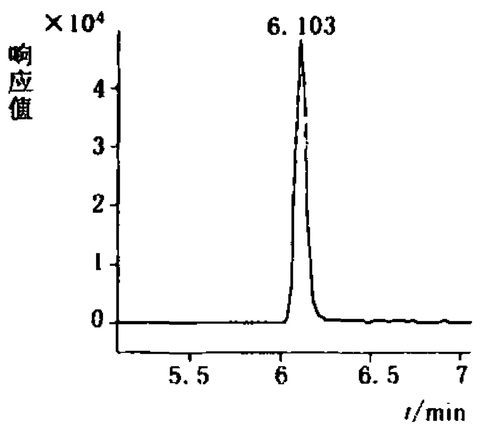
186. 甲基咪草酯
(imazamethabenz-methyl)



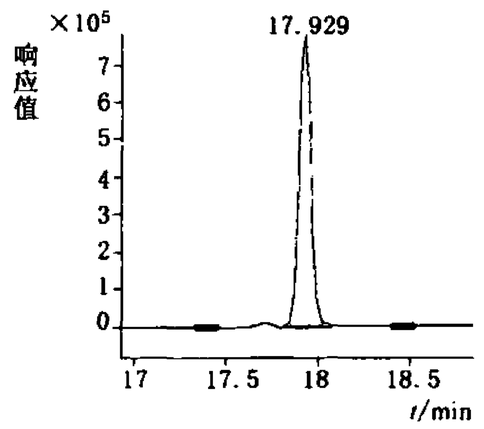
187 乙拌磷亚砜
(disulfoton-sulfoxide)



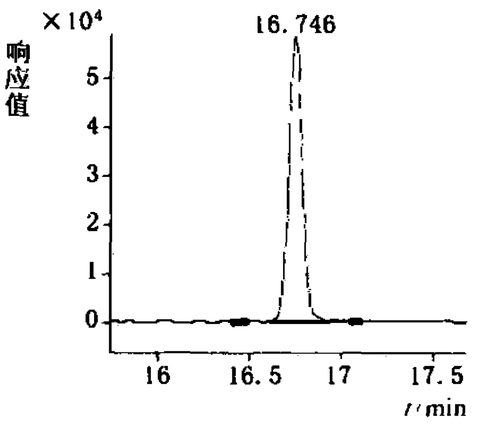
188. 稻瘟灵
(isoprothiolane)



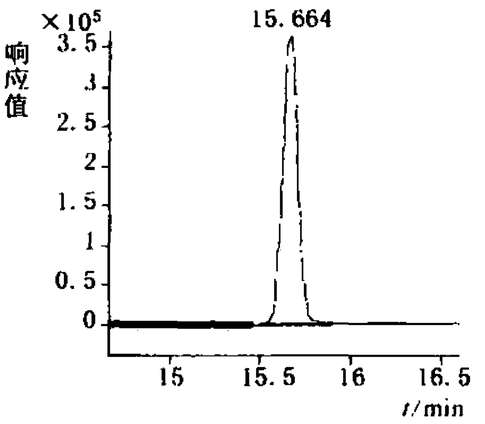
189. 抑霉唑
(imazalil)



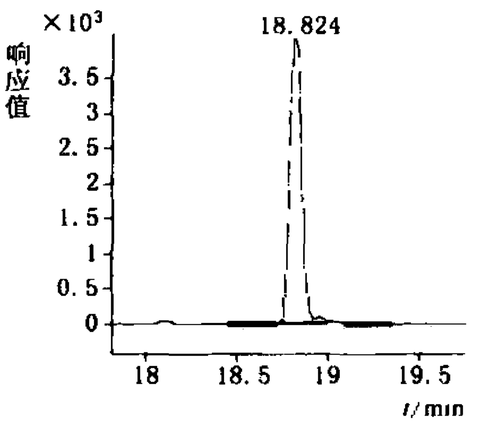
190. 辛硫磷
(phoxim)



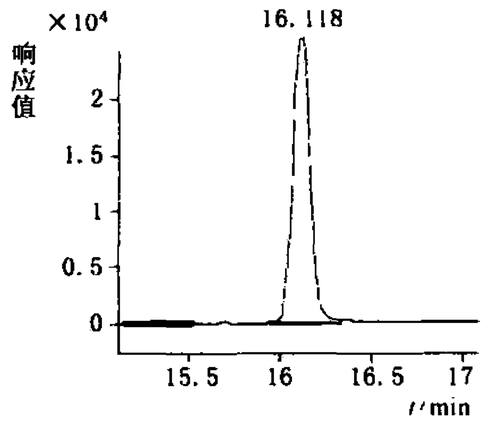
191. 喹硫磷
(quinalphos)



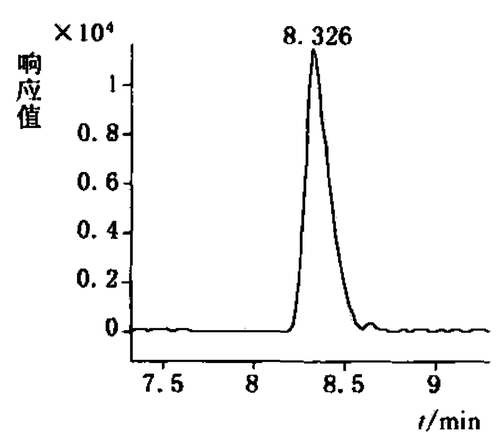
192. 灭菌磷
(ditalimfos)



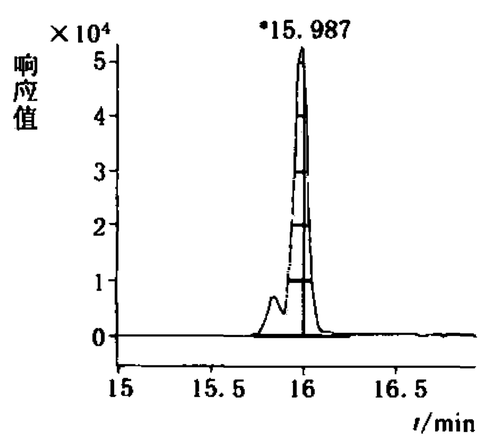
193. 苯氧威
(fenoxycarb)



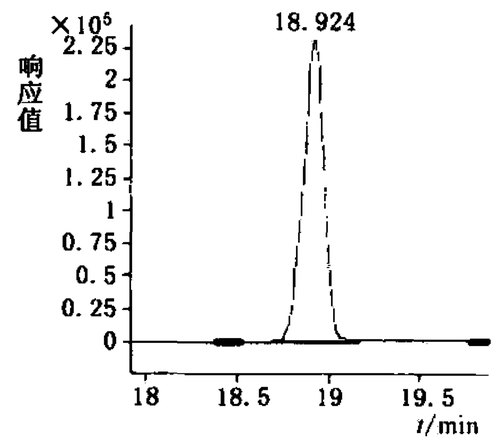
194 嘧啶磷
(pyrimitate)



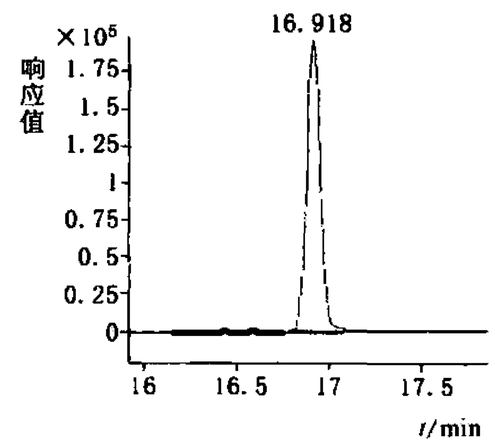
195. 丰索磷
(fensulfothin)



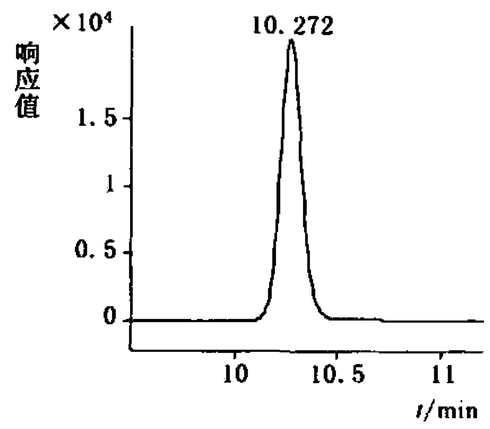
196. 氯咯草酮
(fluorochloridone)



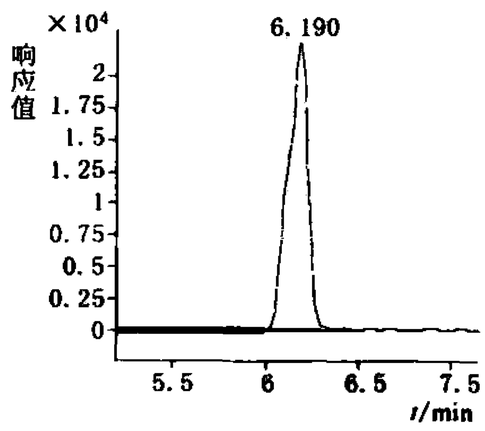
197 丁草胺
(butachlor)



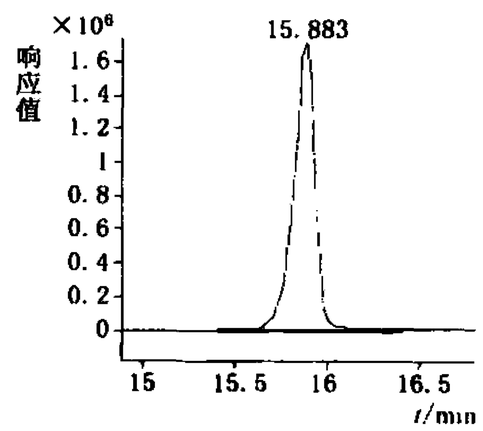
198. 亚胺菌
(kresoxim-methyl)



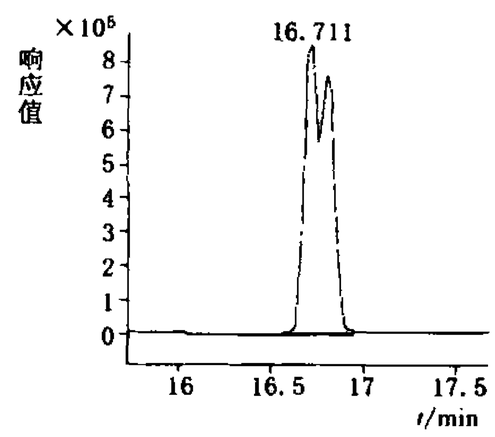
199. 戊叉菌唑
(triticonazole)



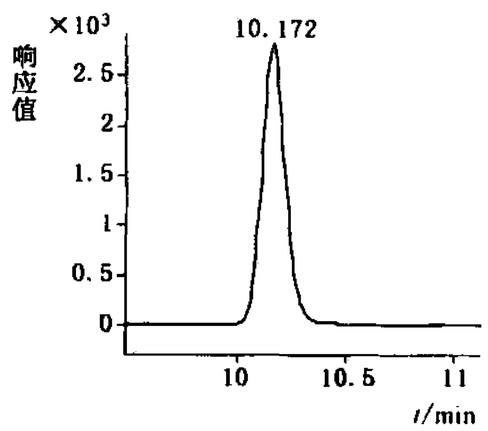
200. 苯线磷亚砜
(fenamiphos sulfoxide)



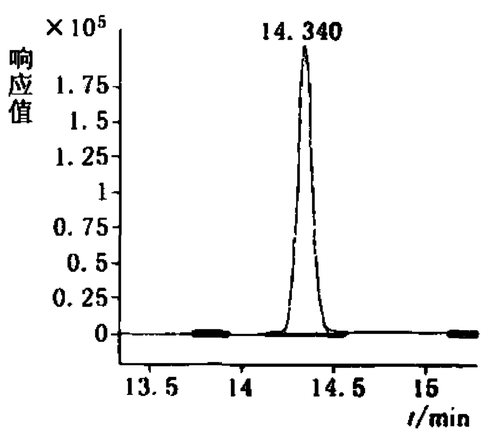
201. 噻吩草胺
(thenylchlor)



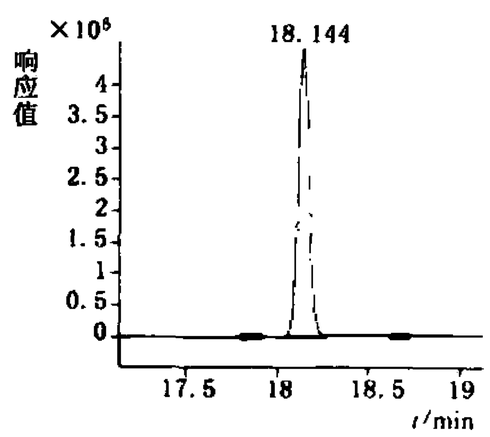
202 氰菌胺
(fenoxanil)



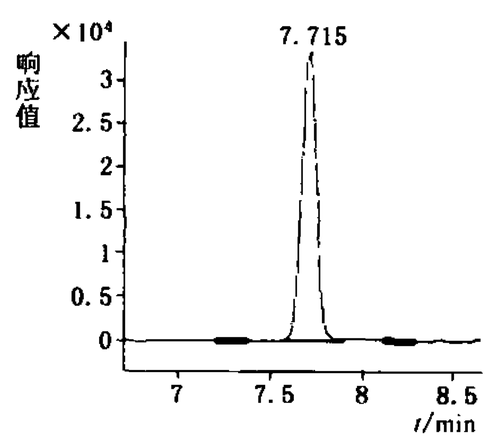
203. 杀草吡啶
(fluridone)



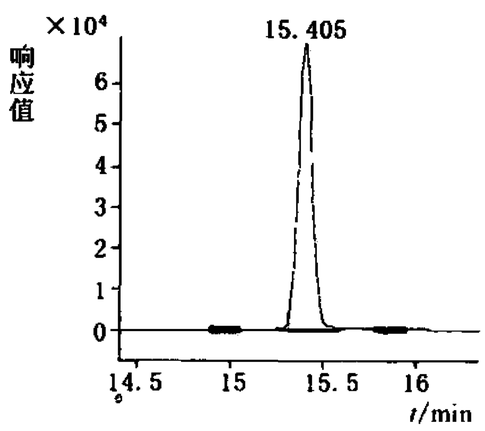
204 氟环唑
(epoxiconazole)



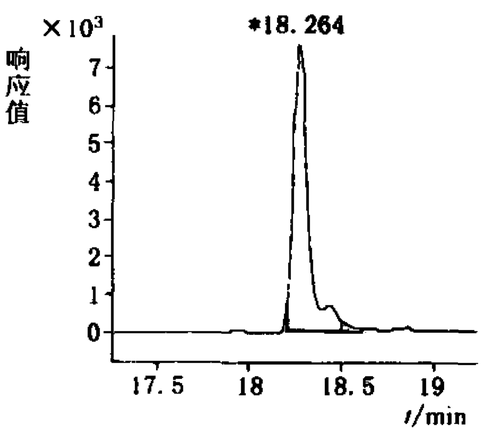
205. 氯辛硫磷
(chlorphoxim)



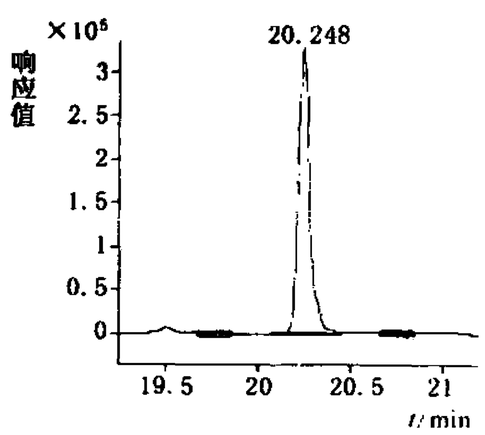
206. 苯线磷砜
(fenamiphos sulfone)



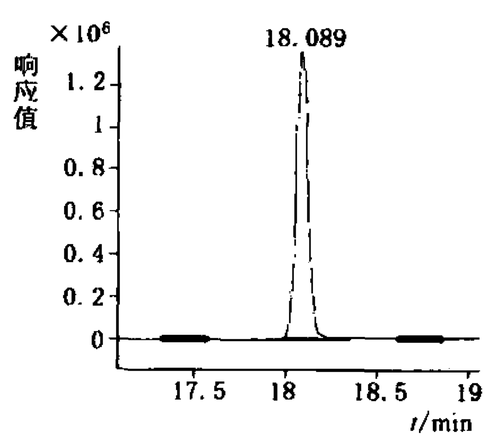
207 腈苯唑
(fenbuconazole)



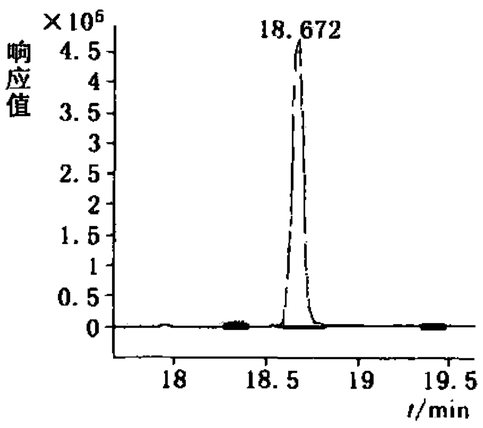
208. 异柳磷
(isofenphos)



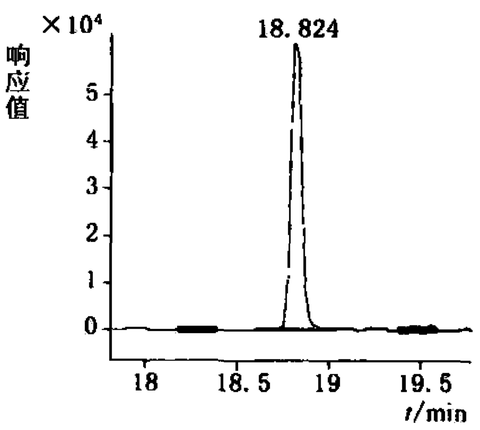
209 苯醚菊酯
(phenothrin)



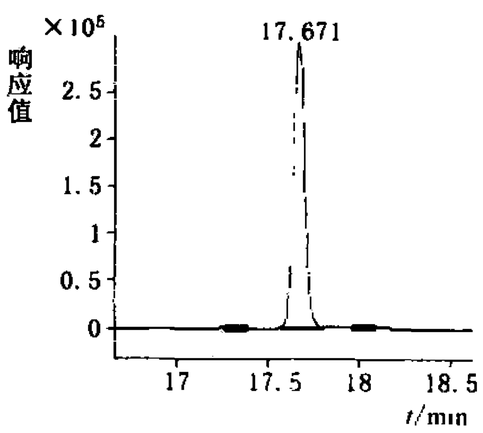
210. 哌草磷
(piperophos)



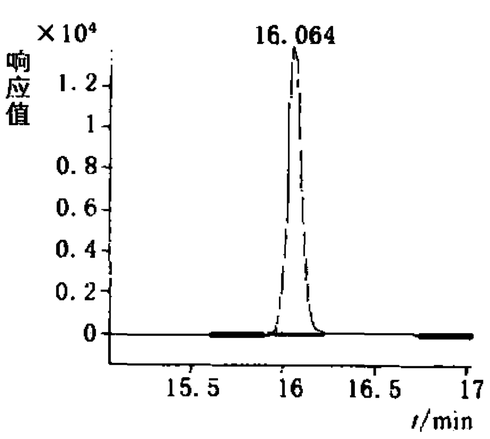
211 增效醚
(piperonyl butoxide)



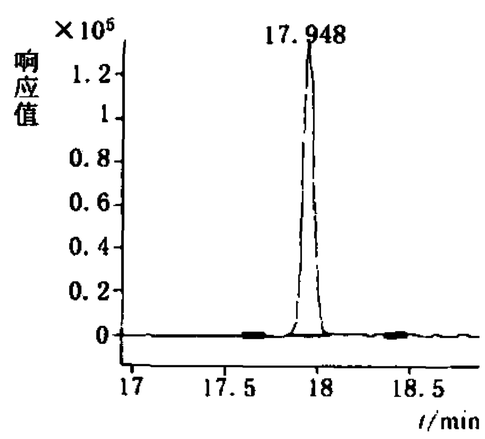
212. 乙氧氟草醚
(oxyflurofen)



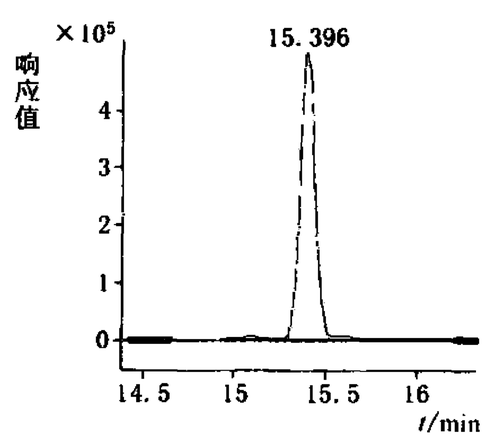
213. 蝇毒磷
(coumaphos)



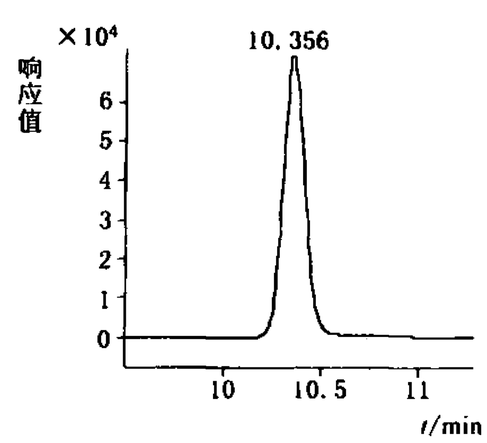
214. 氟噻草胺
(flufenacet)



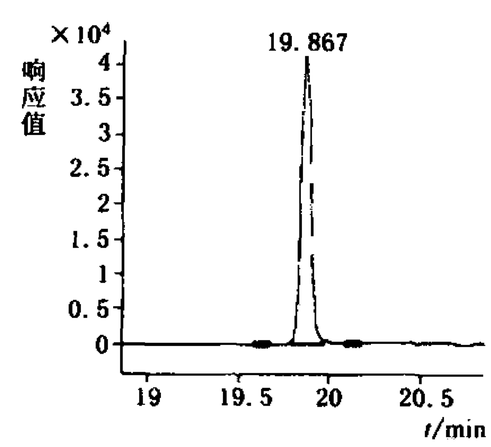
215. 伏杀硫磷
(phosalone)



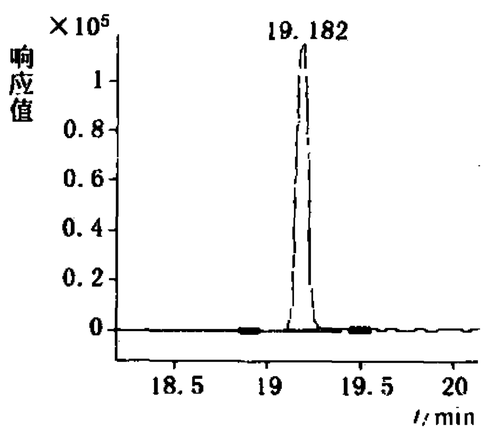
216. 甲氧虫酰肼
(methoxyfenozide)



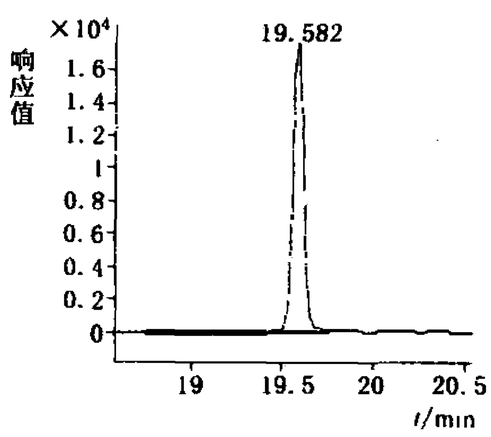
217 咪鲜胺
(prochloraz)



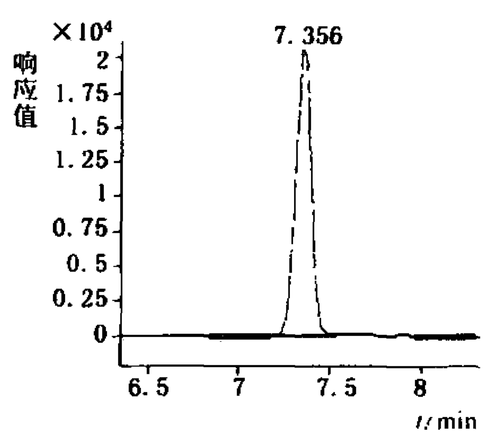
218. 丙硫特普
(aspon)



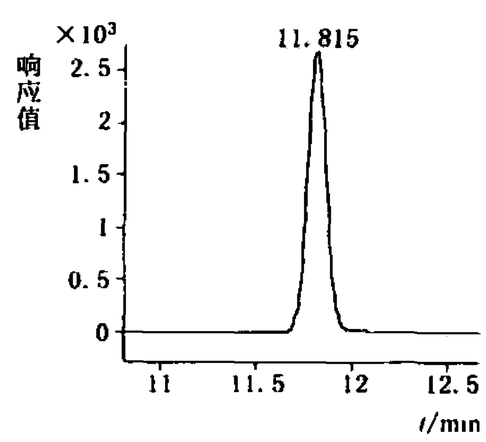
219 乙硫磷
(ethion)



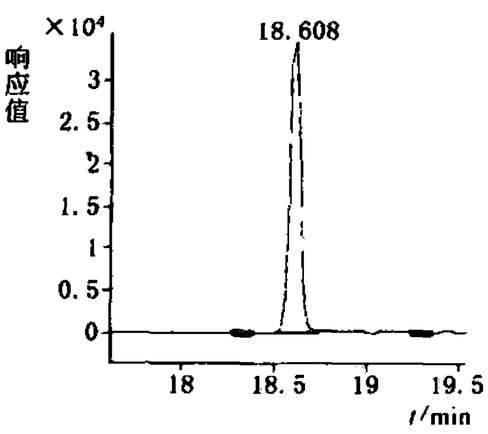
220. 杀螨隆
(diafenthiuron)



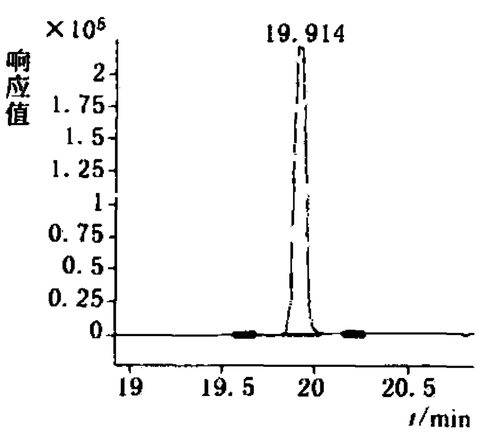
221. 噻吩磺隆
(thifensulfuron-methyl)



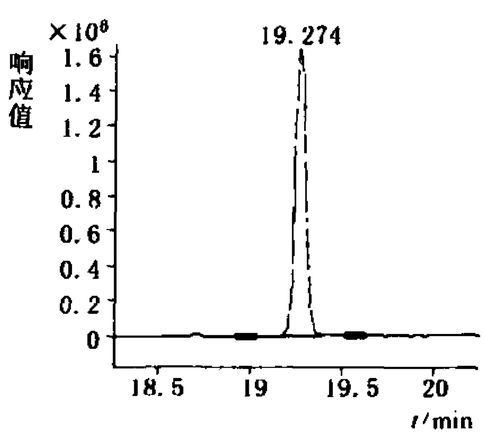
222. 乙氧嘧磺隆
(ethoxysulfuron)



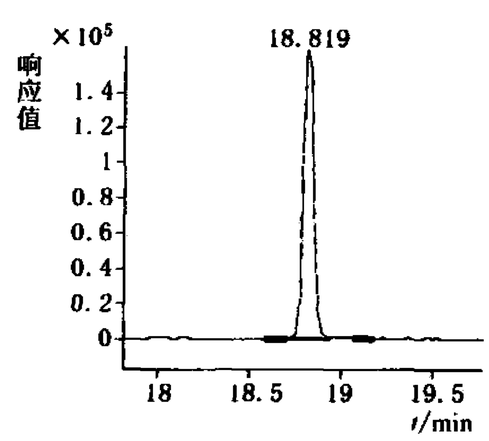
223. 氟硫草定
(dithiopyr)



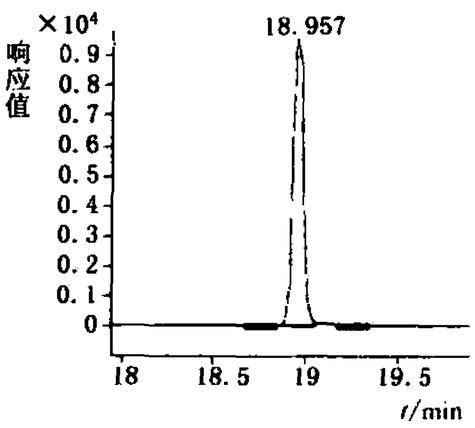
224 螺螨酯
(spirodiclofen)



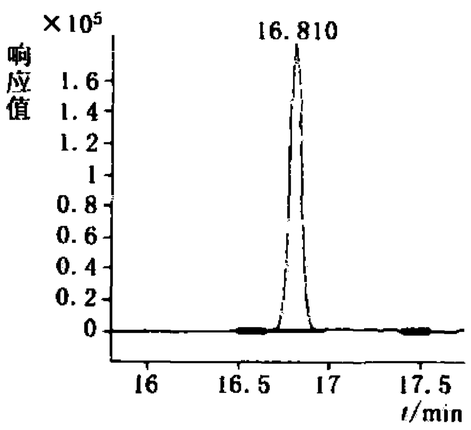
225. 唑螨酯
(fenpyroximate)



226. 胺氟草酯
(flumiclorac-pentyl)

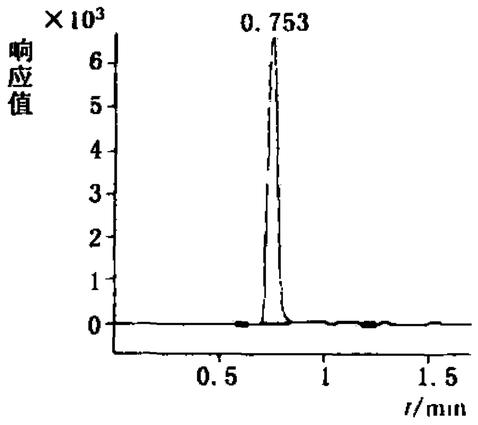


227 双硫磷
(temephos)

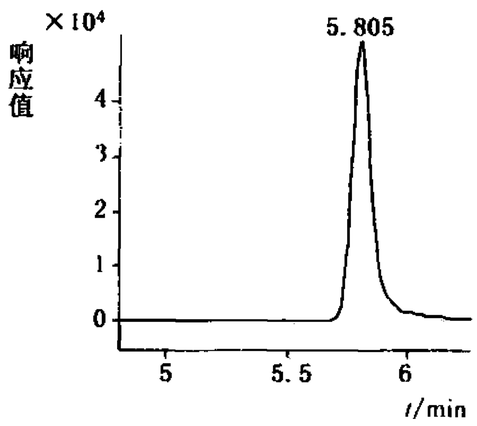


228. 氟丙嘧草酯
(butafenacil)

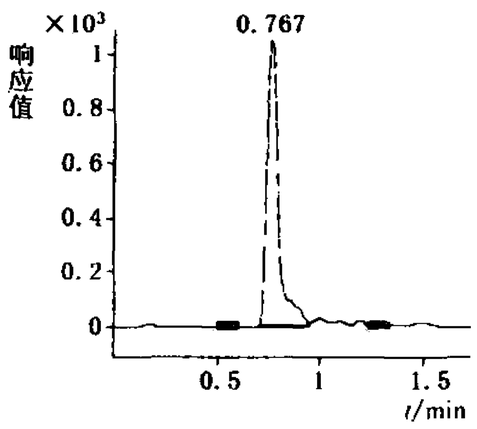
D 组



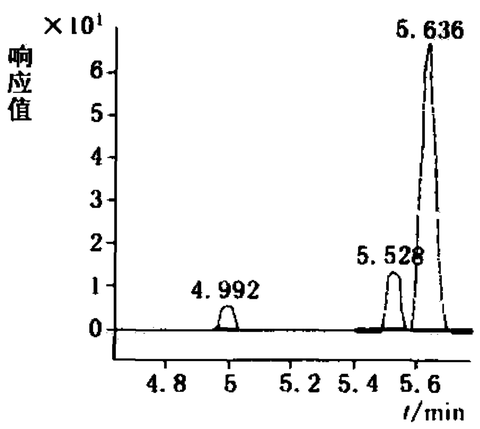
229. 甲呱金翁
(mepiquat chloride)



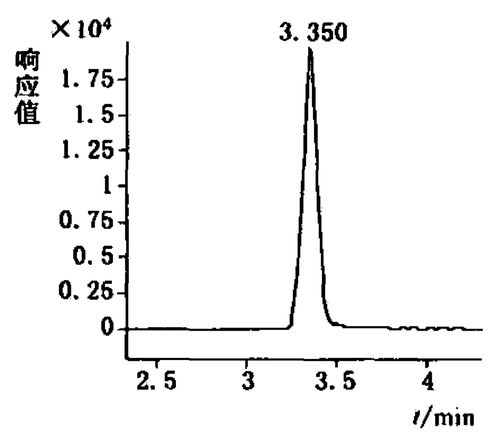
230. 二丙烯草胺
(allidochlor)



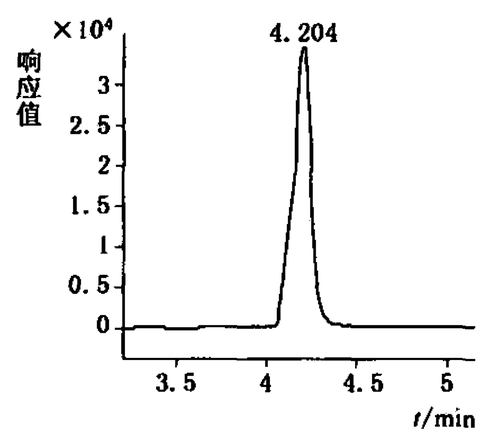
231. 霜霉威
(propamocarb)



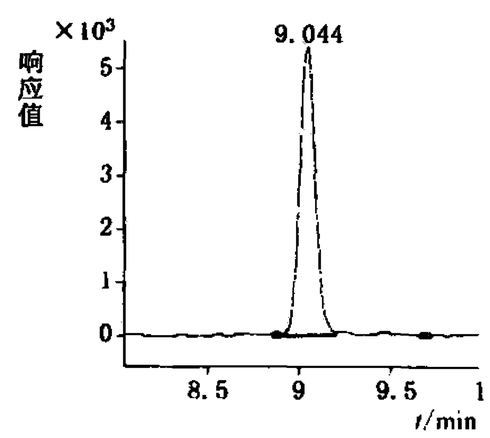
232. 三环唑
(tricyclazole)



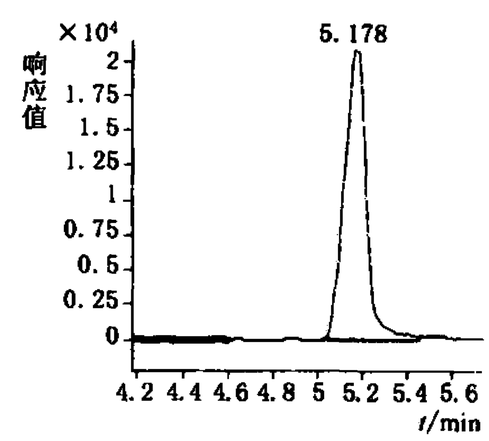
233. 噻菌灵
(thiabendazole)



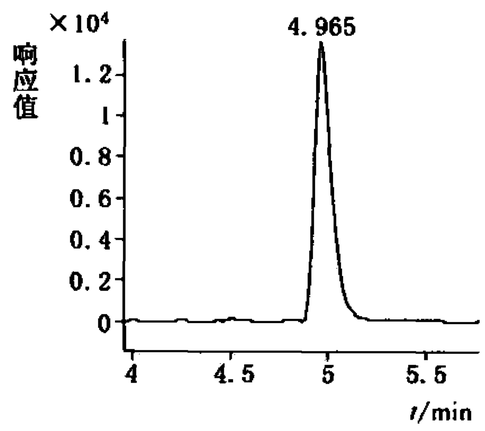
234. 苯噻草酮
(metamitron)



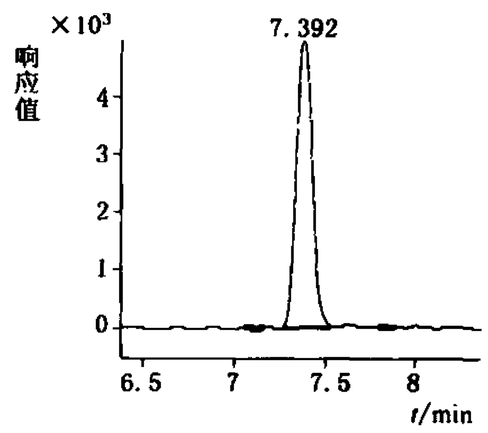
235. 异丙隆
(isoproturon)



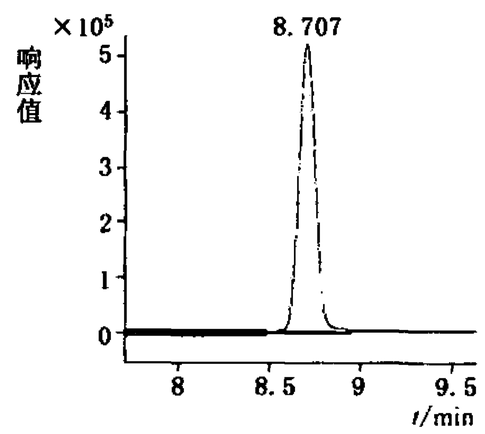
236. 莠去通
(atratone)



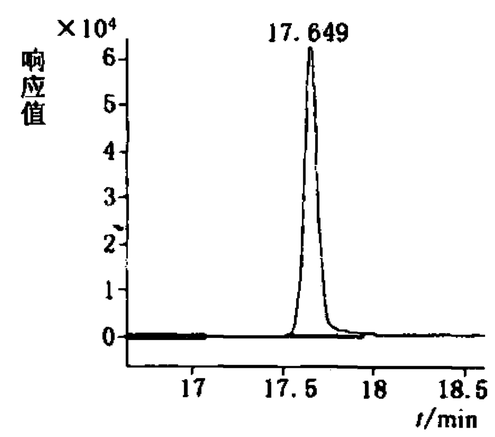
237 敌草净
(oesmetryn)



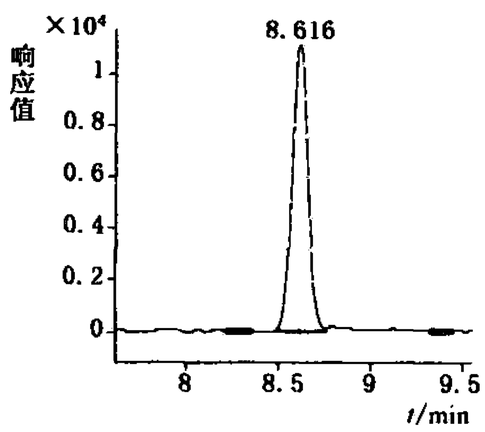
238. 赛克津
(metribuzin)



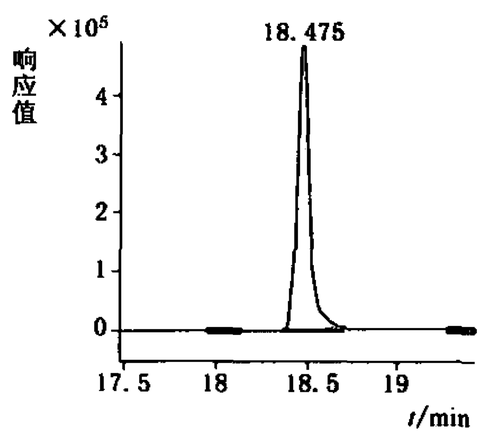
239. (DMST)



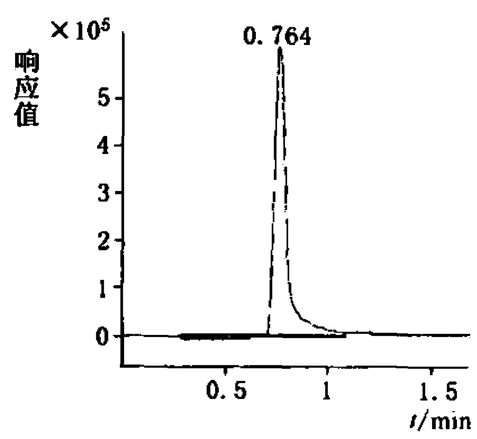
240. 环草敌
(cycloate)



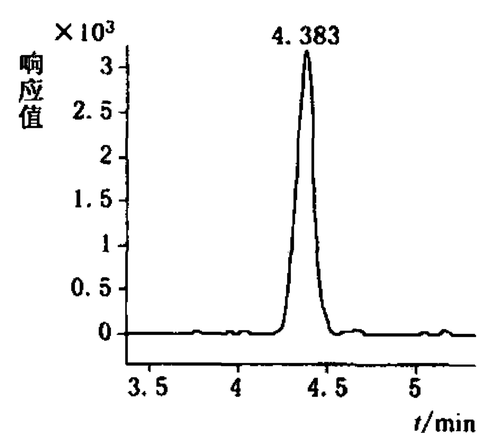
241 莠去津
(atrazine)



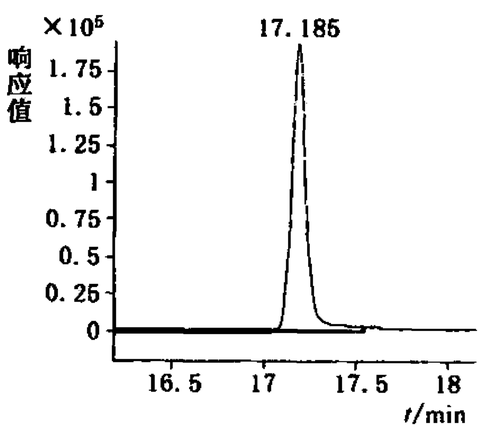
242. 丁草敌
(butylate)



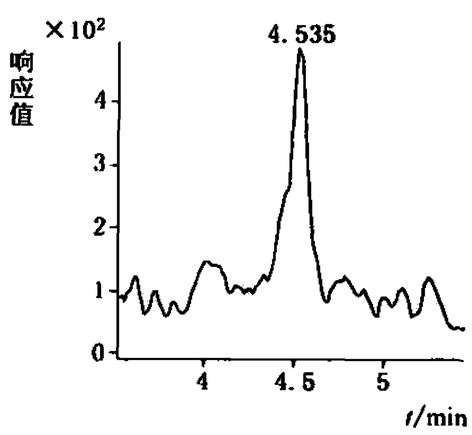
243. 吡蚜酮
(pymetrozin)



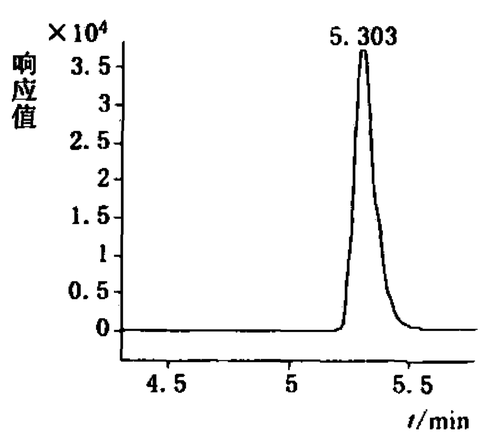
244 氯草敏
(chloridazon)



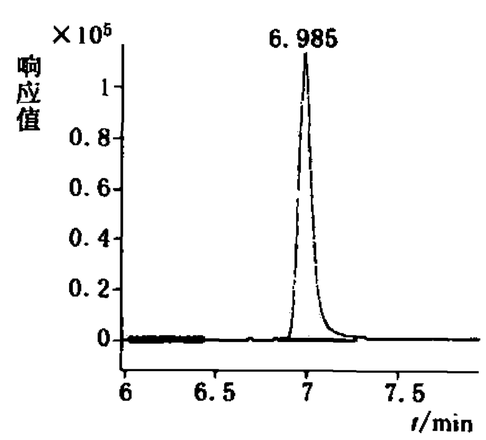
245. 菜草畏
(sulfallate)



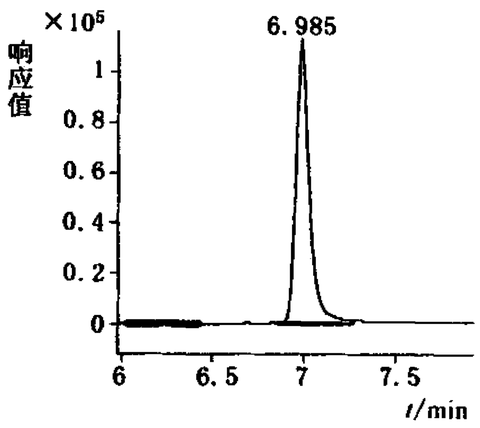
246. 乙硫苯威
(ethiofencarb)



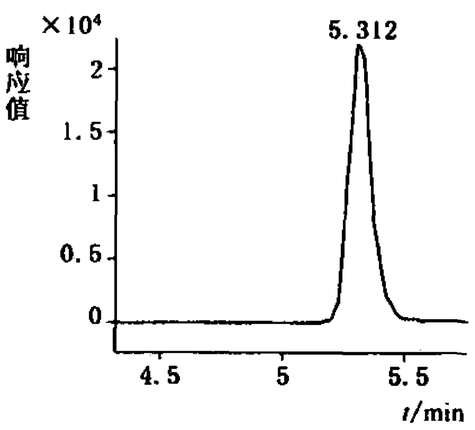
247 特丁通
(terbumeton)



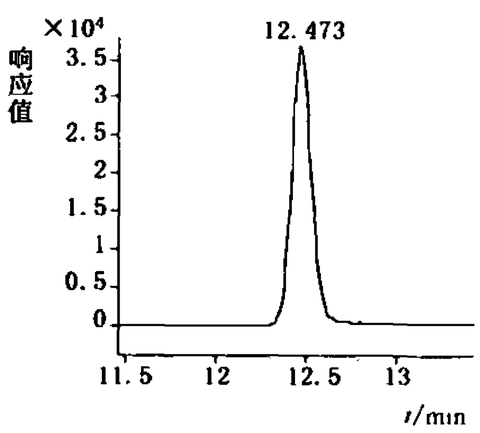
248. 环丙津
(cyprazine)



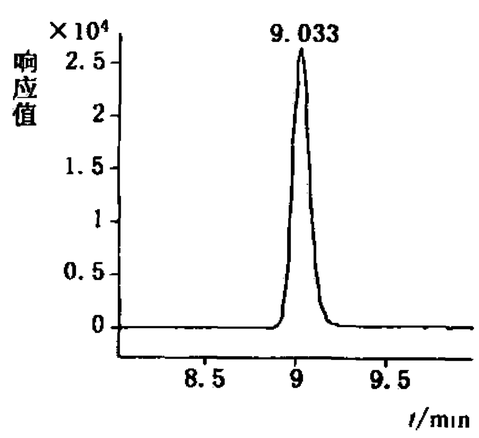
249. 阔草净
(ametryn)



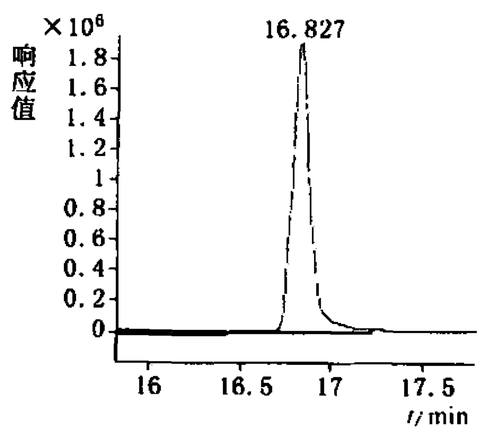
250 木草隆
(tebuthiuron)



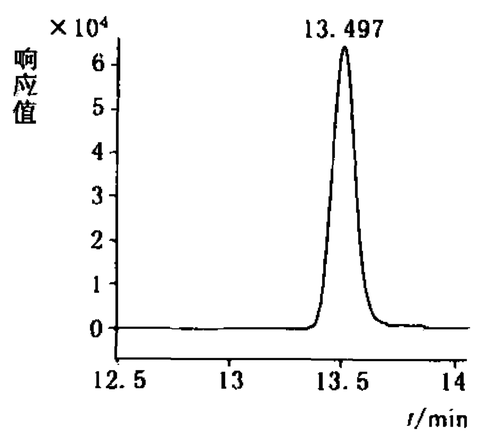
251. 草达津
(trietazine)



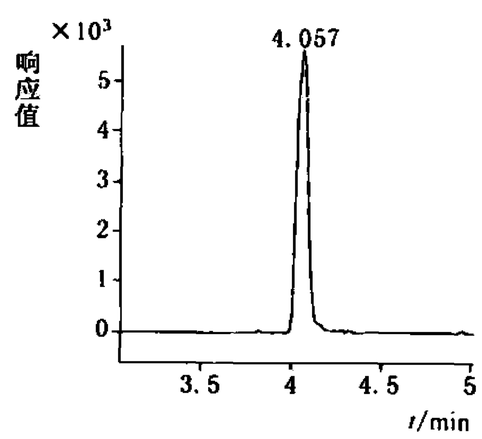
252. 另丁津
(sebutylazine)



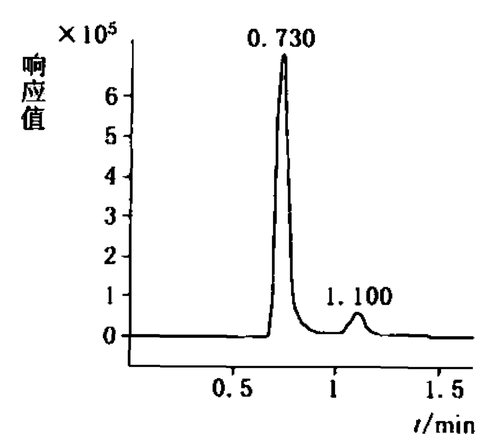
253. 畜虫避
(dibutyl succinate)



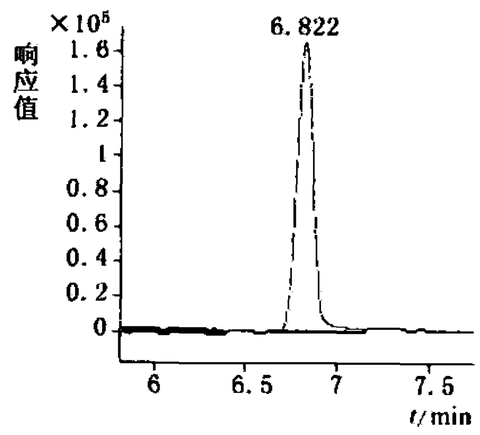
254 牧草胺
(tebutam)



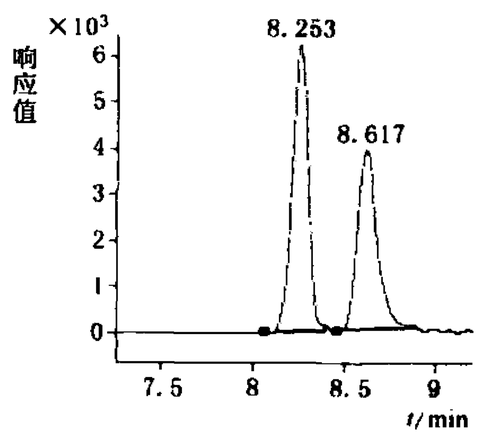
255. 久效威亚砜
(thiofanox-sulfoxide)



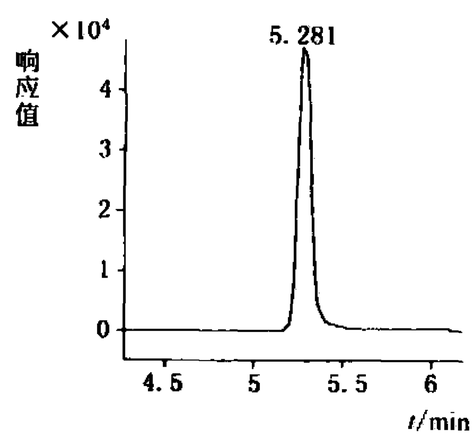
256. 杀螟丹
(cartap hydrochloride)



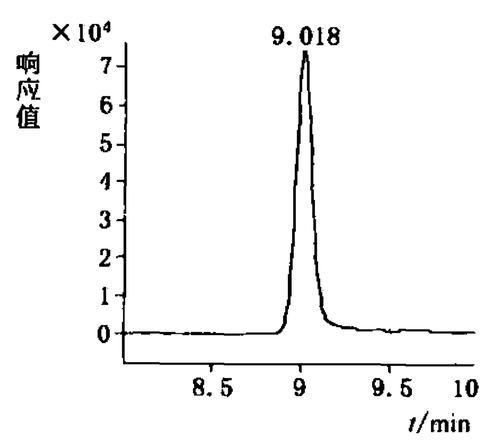
257 虫螨畏
(methacrifos)



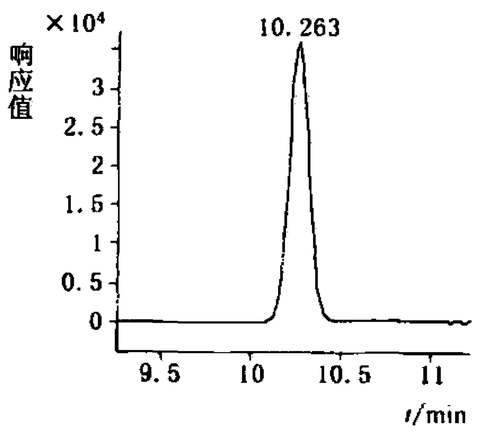
258. 特丁净
(terbutryn)



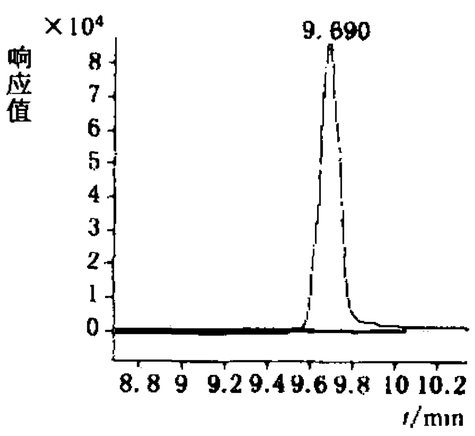
259. 咪唑嗪
(triazoxide)



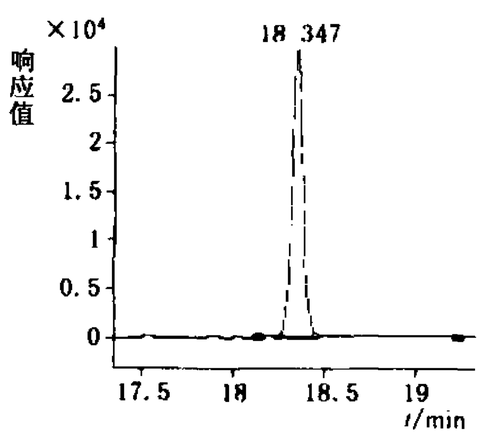
260 虫线磷
(thionazin)



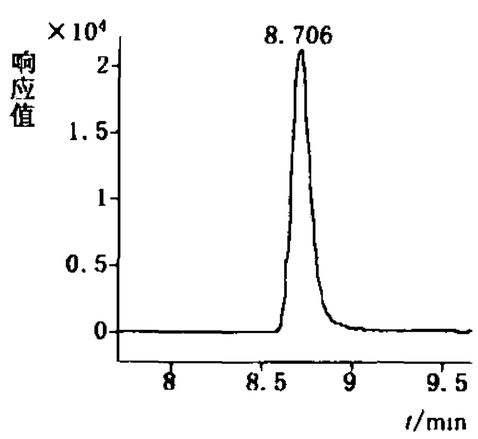
261 利谷隆
(linuron)



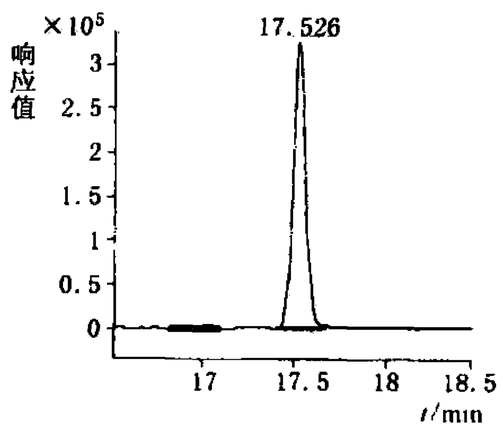
262 庚虫磷
(heptanophos)



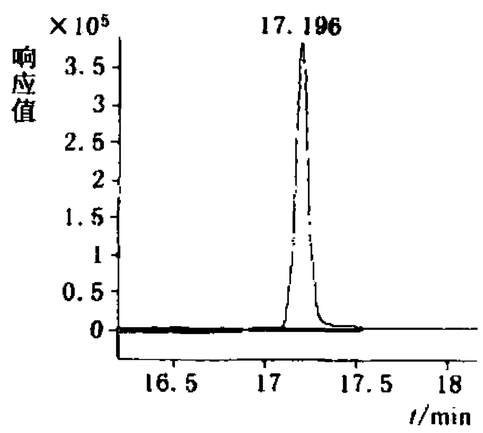
263. 苄草丹
(prosulfocarb)



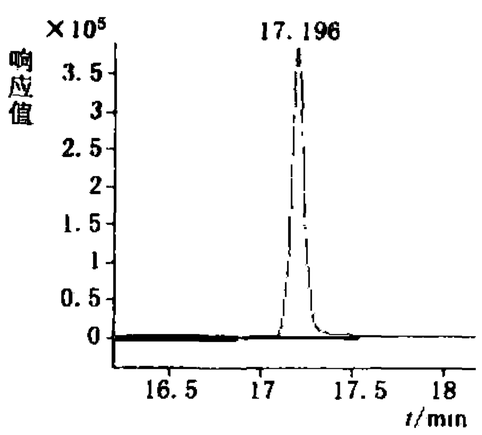
264. 杀草净
(dipropetryn)



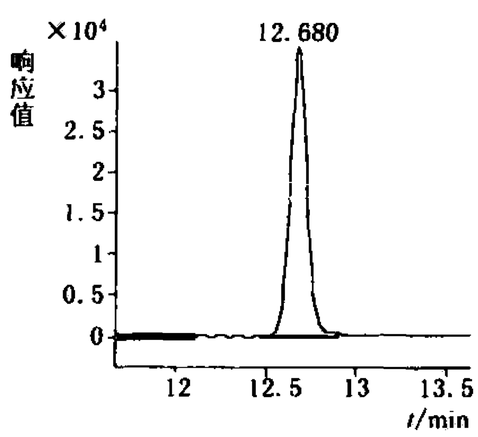
265. 禾草丹
(thiobencarb)



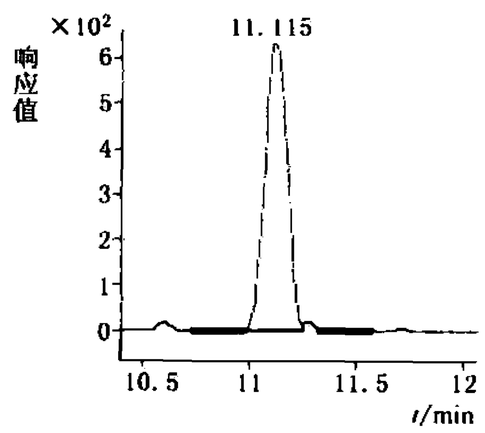
266. 三异丁基磷酸盐
(tri-*iso*-butyl phosphate)



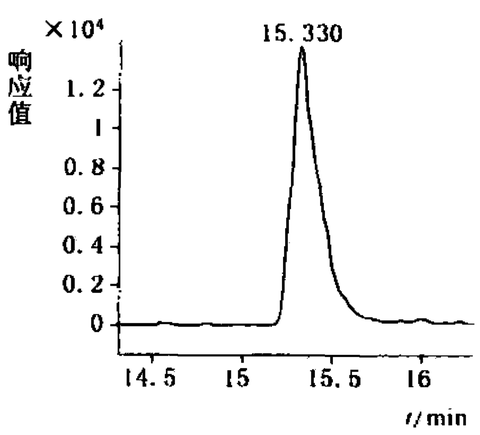
267 三正丁基磷酸盐
(tri-*n*-butyl phosphate)



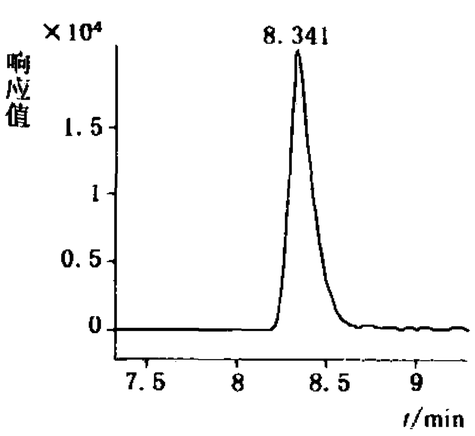
268. 乙霉威
(diethofencarb)



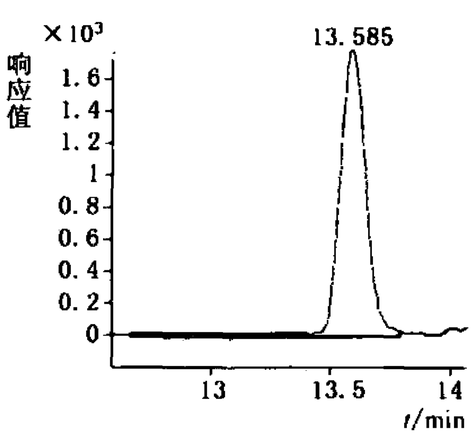
269. 甲草胺
(alachlor)



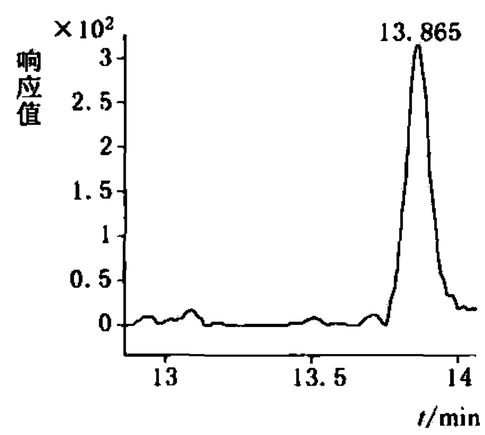
270 硫线磷
(cadusafos)



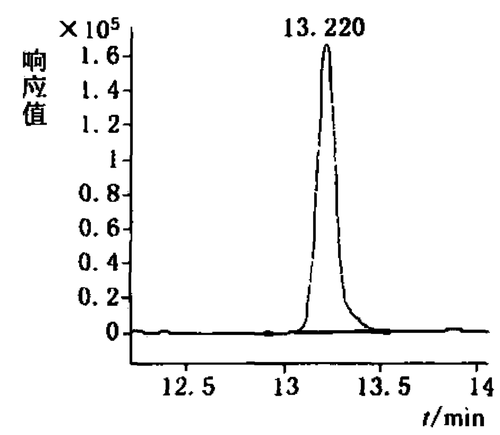
271. 吡唑草胺
(metazachlor)



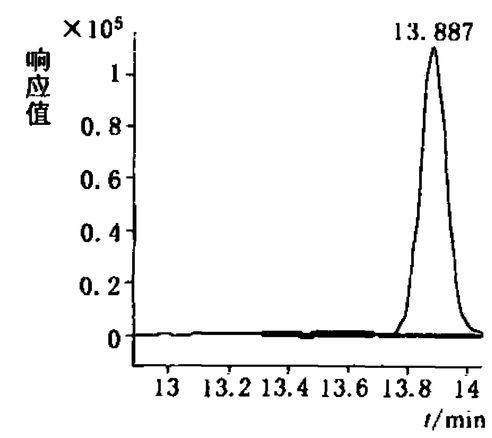
272 胺丙畏
(propetamphos)



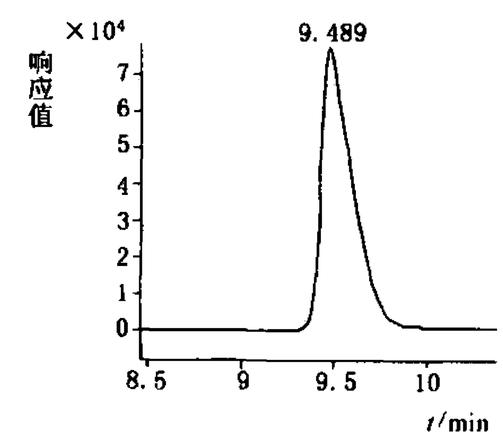
273. 特丁硫磷
(terbufos)



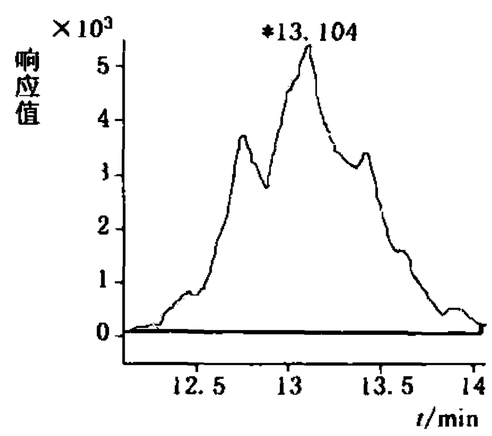
274. 硅氟唑
(simeconazole)



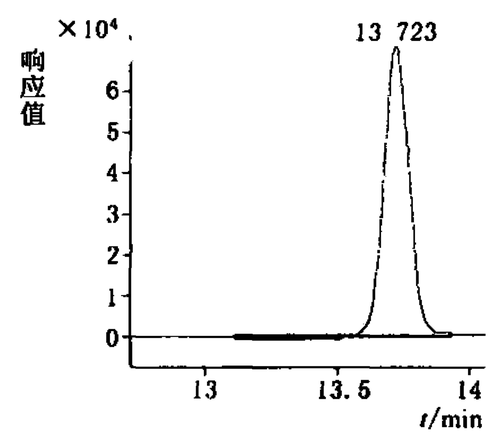
275. 三唑酮
(triadimefon)



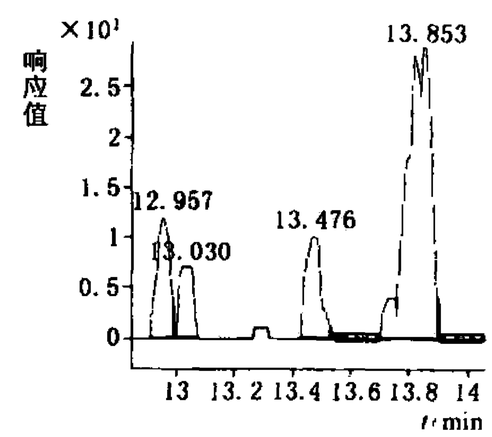
276. 甲拌磷砜
(phorate sulfone)



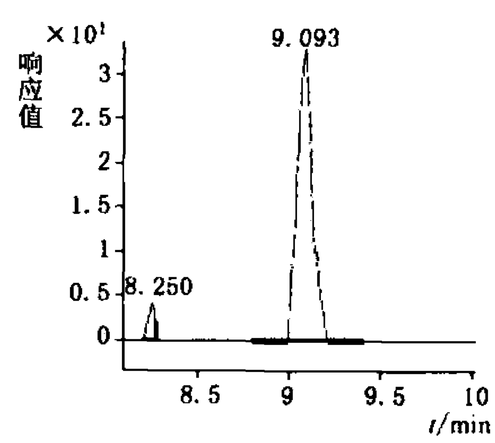
277 十三吗啉
(tridemorph)



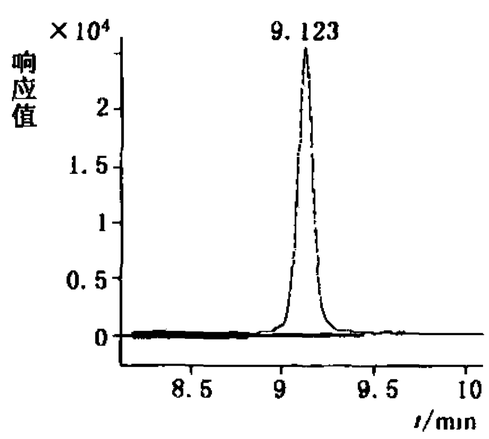
278. 苯噻酰草胺
(mefenacet)



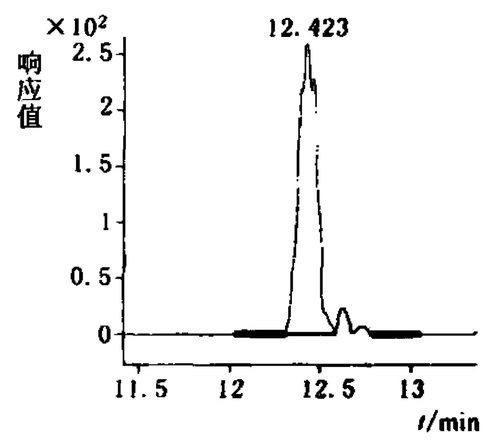
279. 戊环唑
(azaconazole)



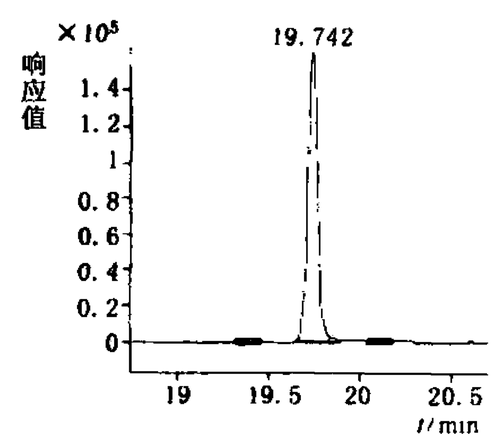
280. 苯线磷
(fenamiphos)



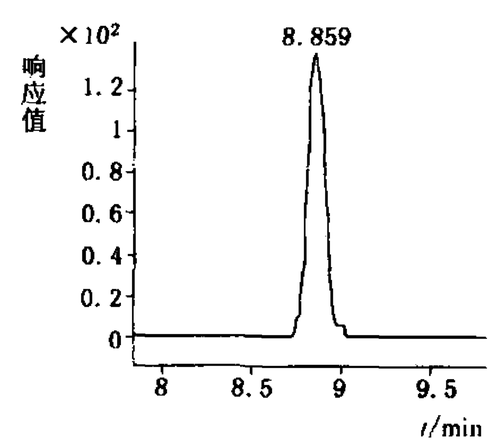
281. 丁苯吗啉
(fenpropimorph)



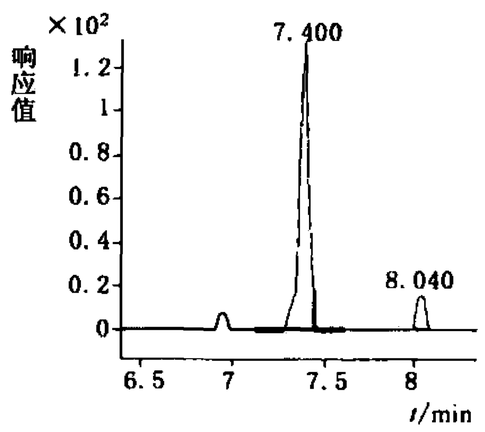
282. 戊唑醇
(tebuconazole)



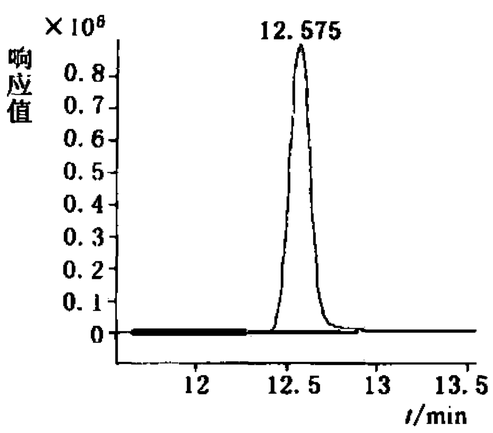
283 异丙乐灵
(isopropalin)



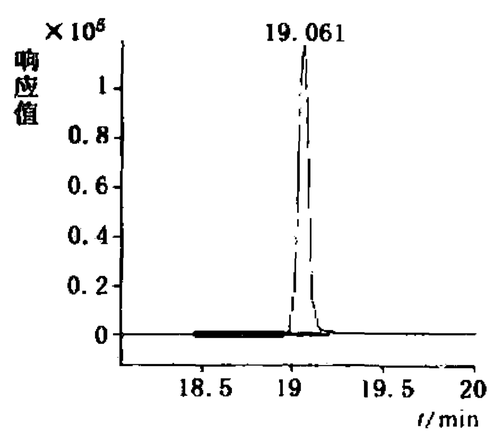
284 氟苯嘧啶醇
(nuarimol)



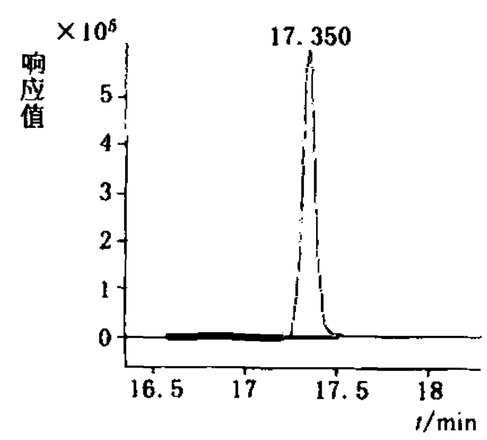
285. 乙嘧酚磺酸酯
(bupirimate)



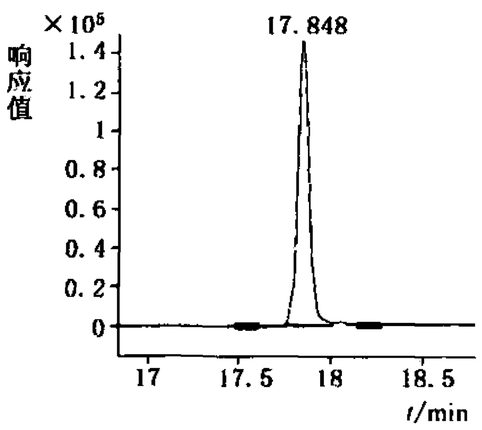
286. 保棉磷
(azinphos-methyl)



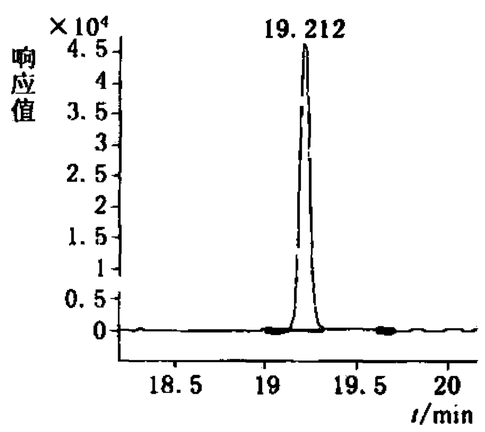
287 丁基嘧啶磷
(tebupirimfos)



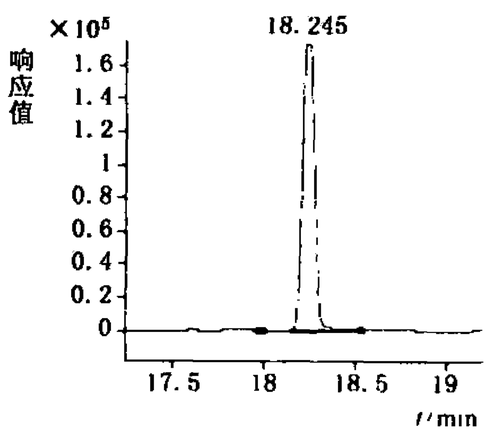
288. 稻丰散
(phenthoate)



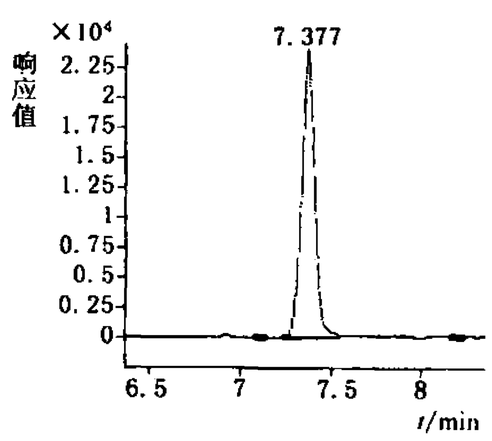
289. 治螟磷
(sulfotep)



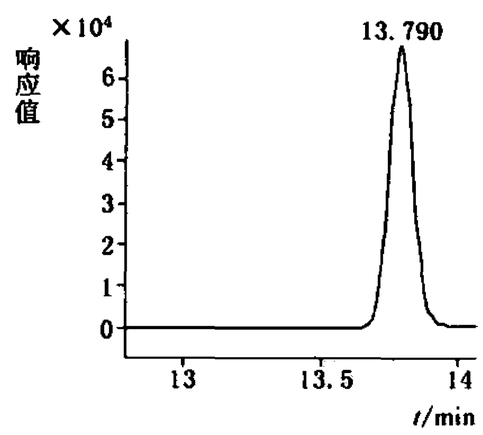
290. 硫丙磷
(sulprofos)



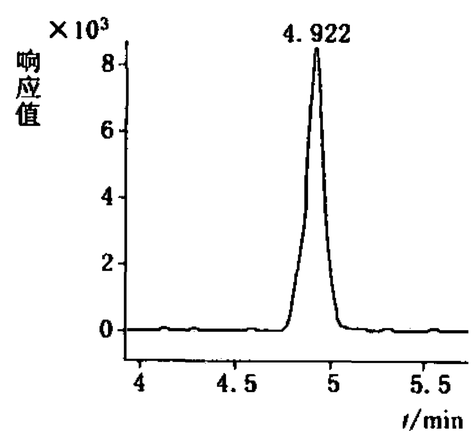
291. 苯硫磷
(EPN)



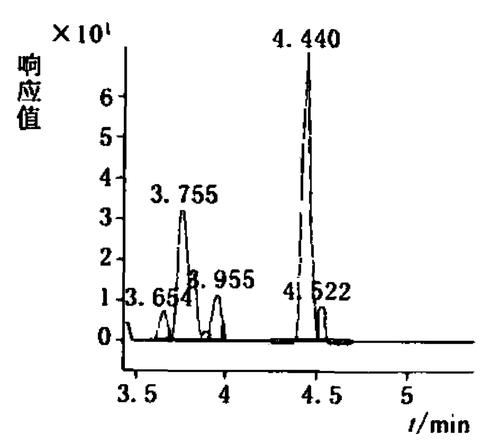
292. 甲基吡嘧磷
(azamethiphos)



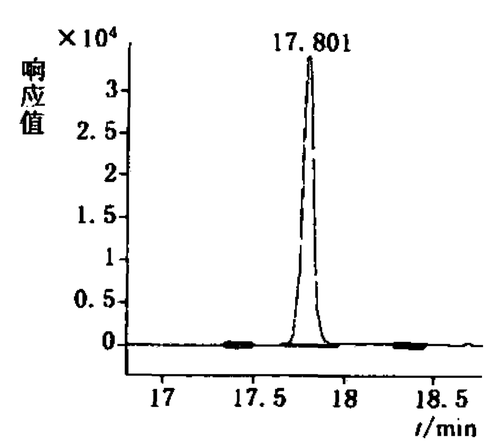
293. 烯唑醇
(diniconazole)



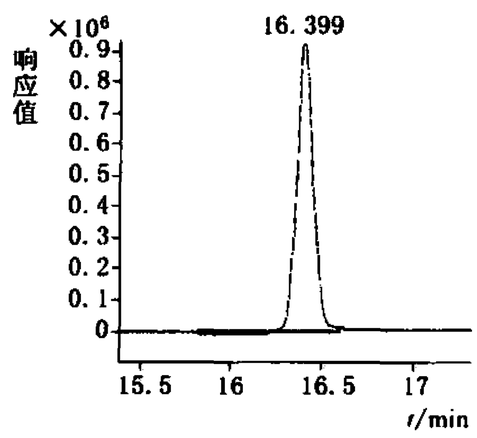
294 唑嘧磺草胺
(flumetsulam)



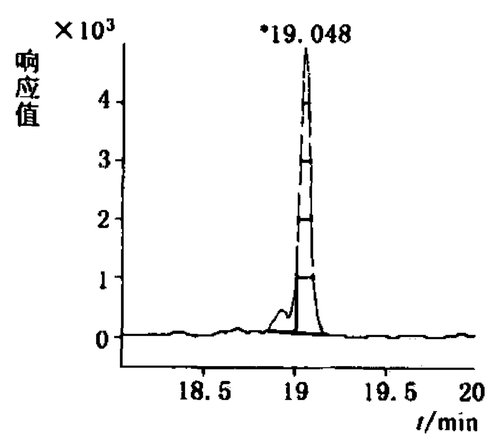
295. 稀禾啶
(sethoxydim)



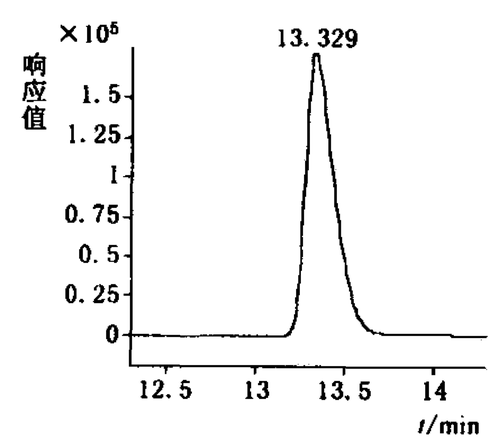
296. 纹枯脲
(pencycuron)



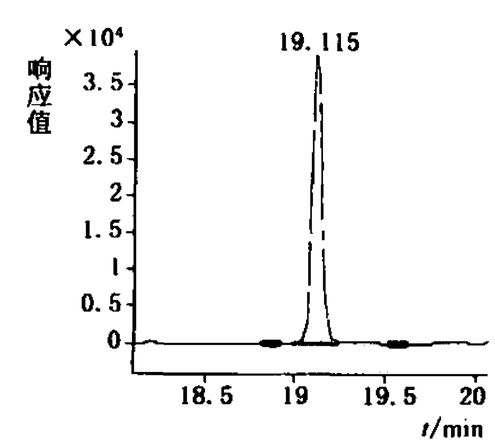
297 灭蚜磷
(mecarbam)



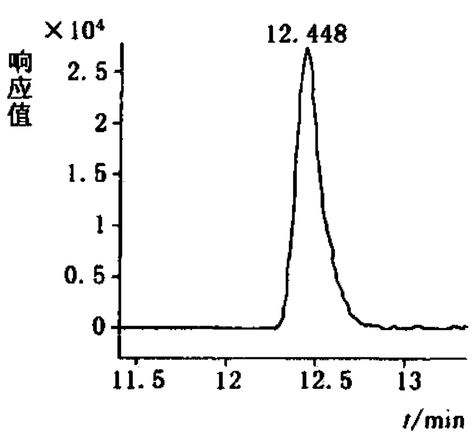
298. 苯草酮
(tralkoxydim)



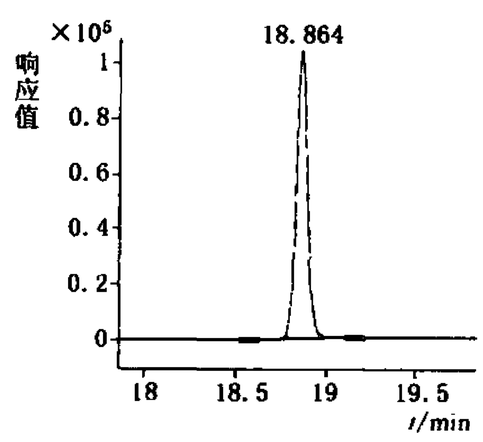
299. 马拉硫磷
(malathion)



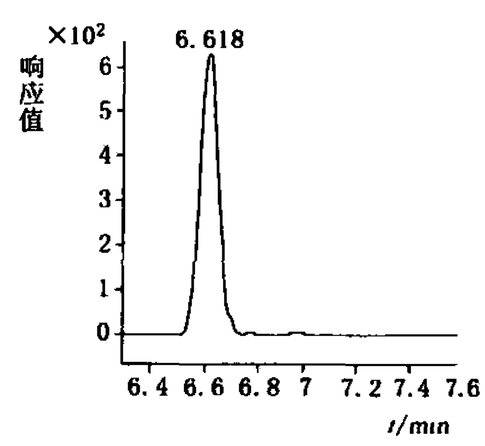
300. 稗草畏
(pyributicarb)



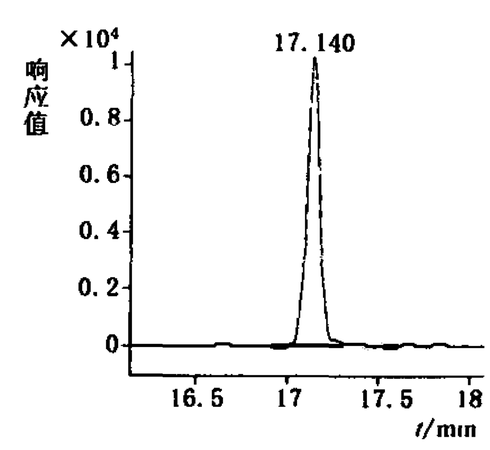
301. 哒嗪硫磷
(pyridaphenthion)



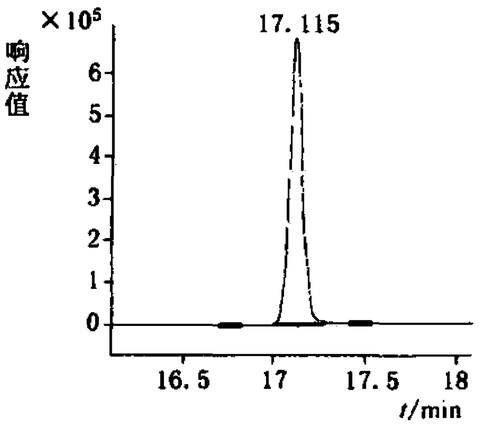
302. 嘧啶磷
(pirimiphos-ethyl)



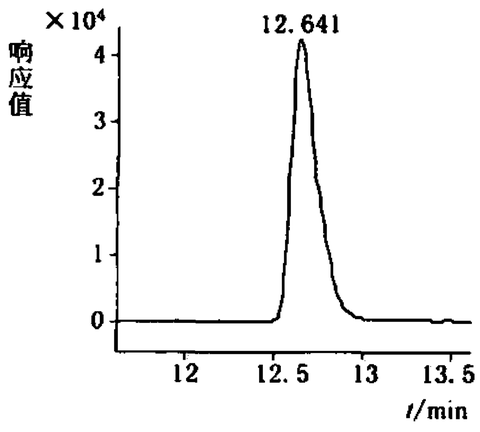
303. 硫双威
(thiodicarb)



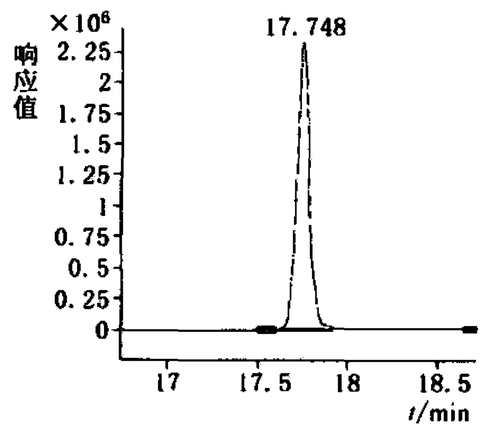
304. 吡唑硫磷
(pyraclofos)



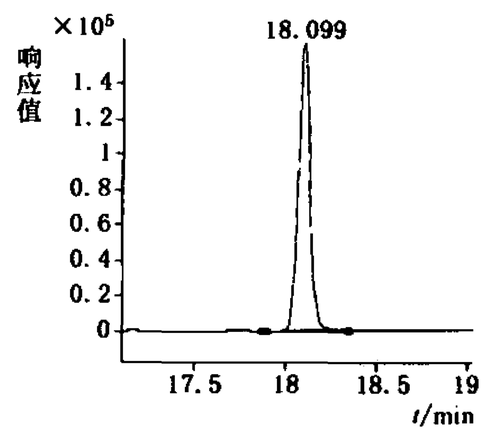
305. 啶氧菌酯
(picoxystrobin)



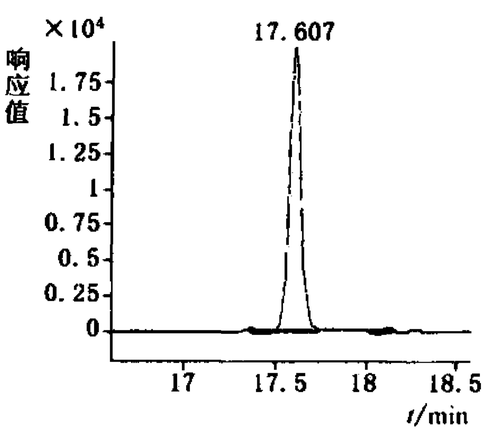
306. 四氟醚唑
(tetraconazole)



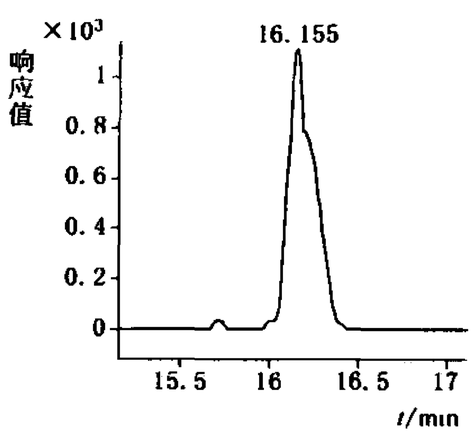
307. 吡唑解草酯
(mefenpyr-diethyl)



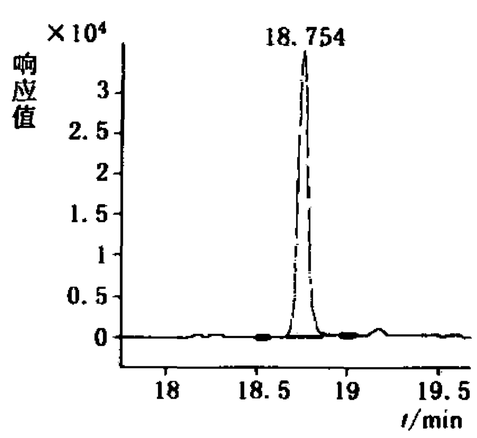
308. 丙溴磷
(profenefos)



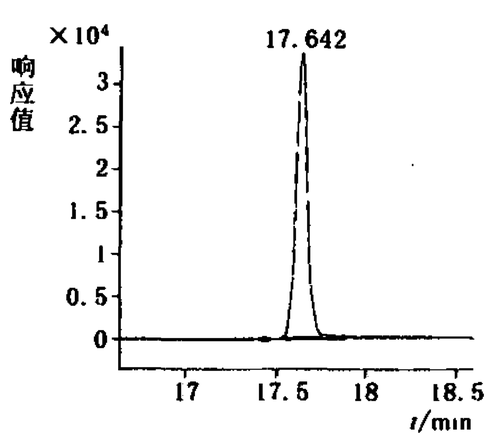
309. 百克敏
(pyraclostrobin)



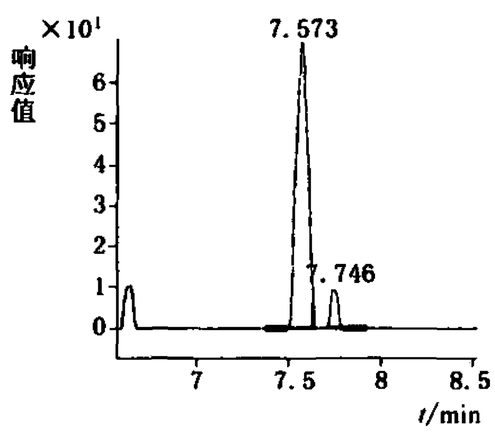
310. 烯酰吗啉
(dimethomorph)



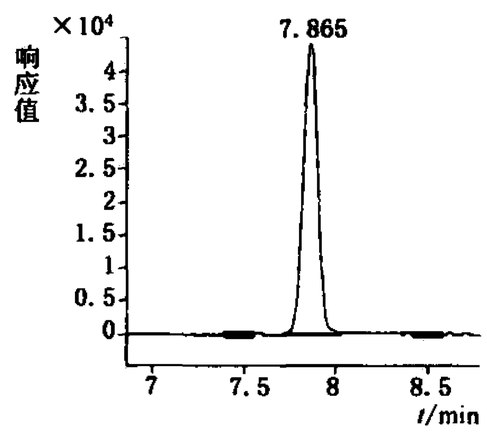
311. 噻嗯菊酯
(kadethrin)



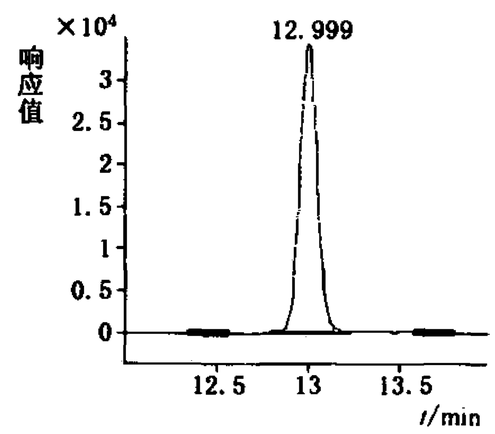
312. 噻唑烟酸
(thiazopyr)



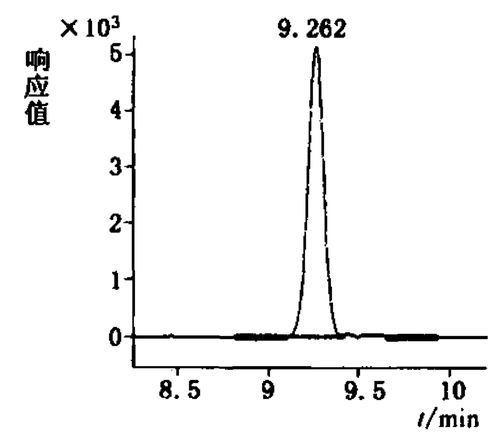
313. 丙硫克百威
(benfuracarb-methyl)



314. 醚黄隆
(cinosulfuron)

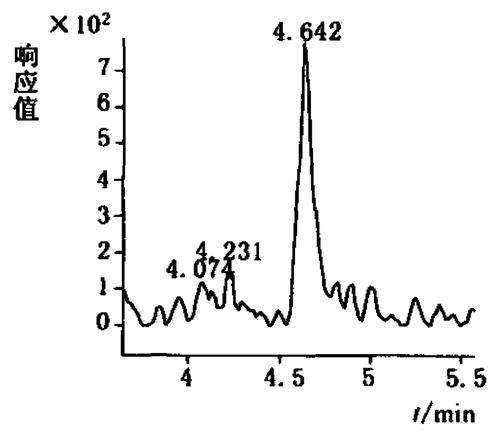


315. 吡嘧磺隆
(pyrazosulfuron-ethyl)

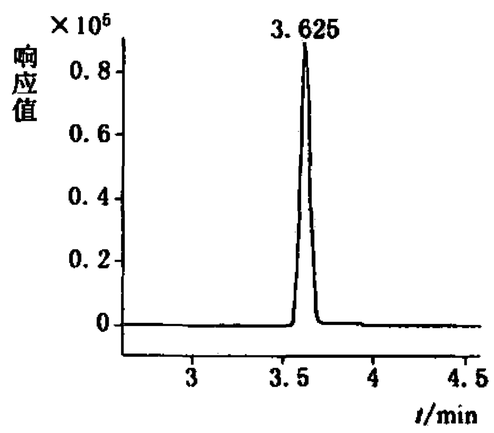


316. 磺草胺唑
(metosulam)

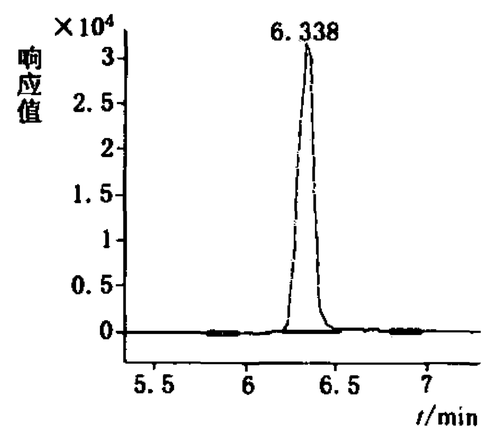
E 组



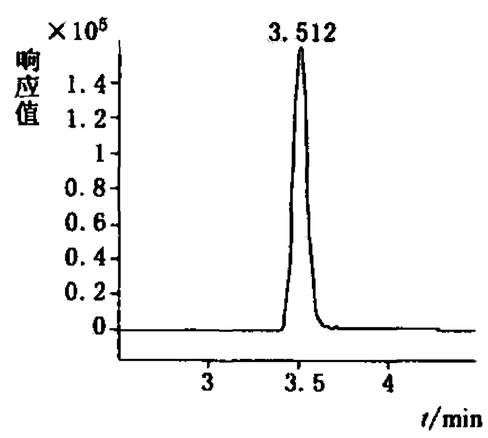
317 4-氨基吡啶
(4-aminopyridine)



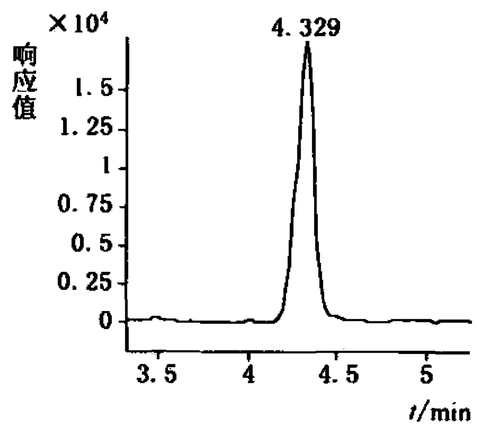
318. 灭多威
(methomyl)



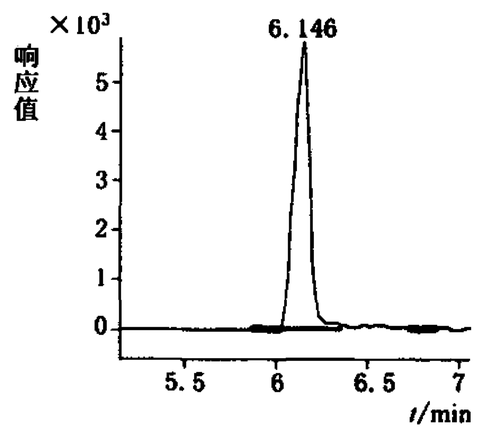
319. 咯喹酮
(pyroquilon)



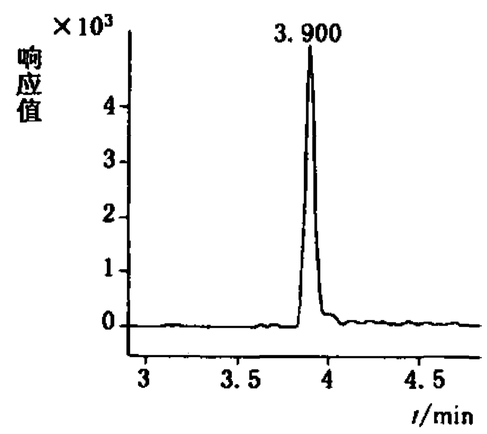
320. 麦穗灵
(fuberidazole)



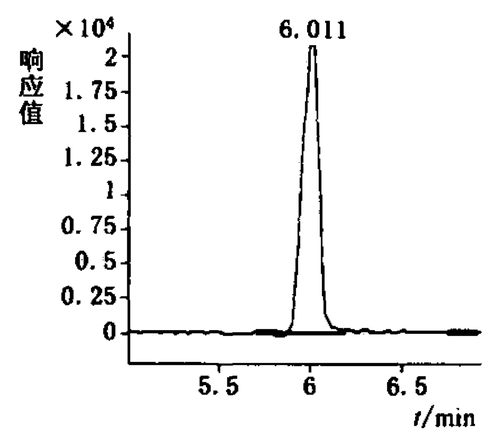
321. 丁脒酰胺
(isocarbamid)



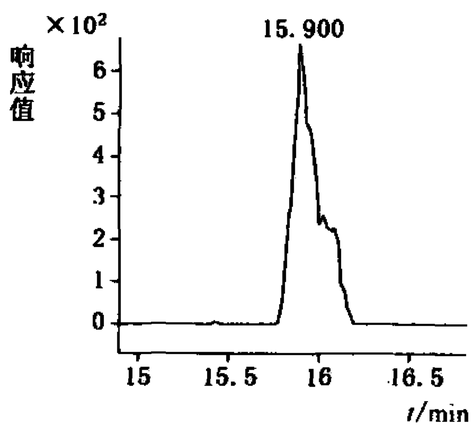
322. 丁酮威
(butocarboxim)



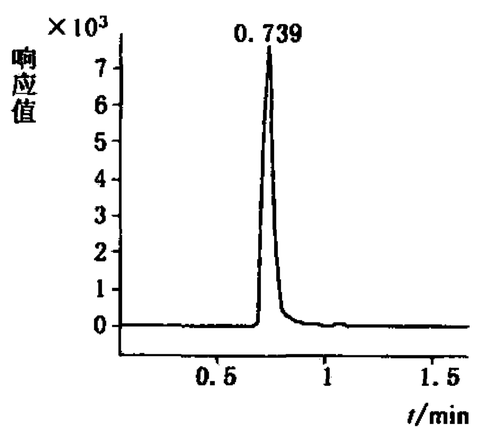
323. 杀虫脒
(chlordimeform)



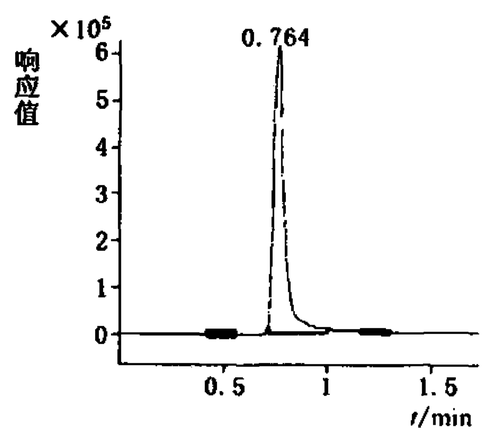
324. 霜脲氰
(cymoxanil)



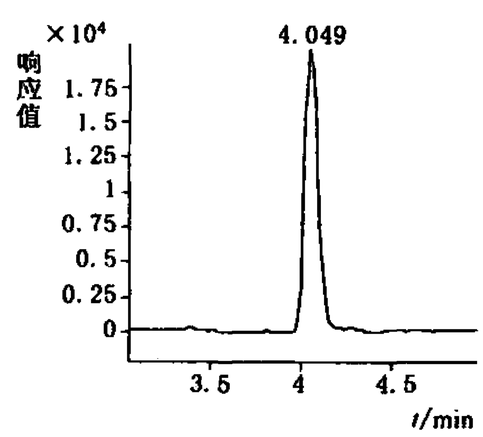
325. 灭草敌
(vernolate)



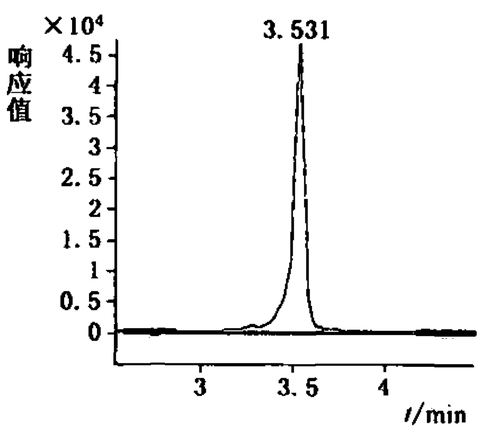
326. 氯硫酰草胺
(chlorthiamid)



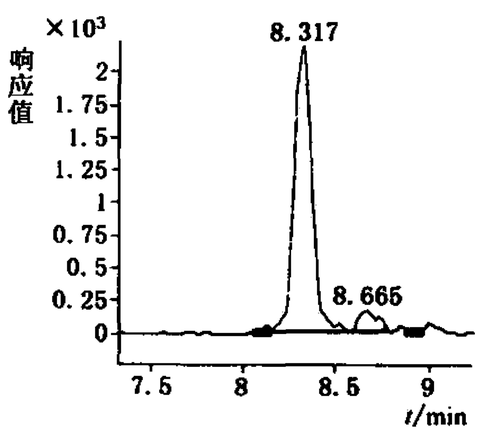
327. 灭害威
(aminocarb)



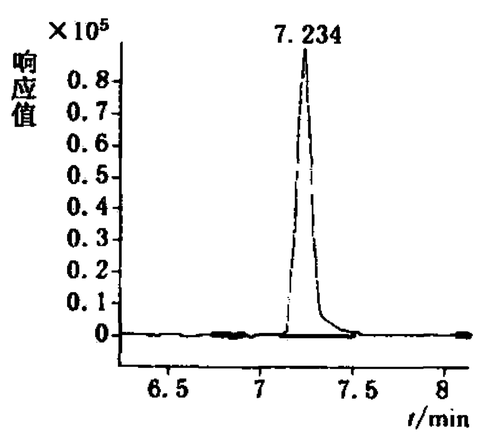
328. 甲菌定
(dimethirimol)



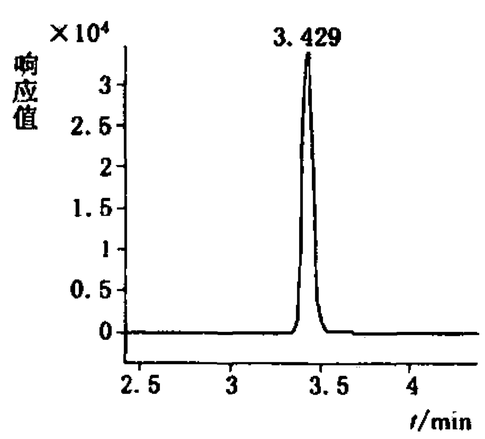
329. 氧乐果
(omethoate)



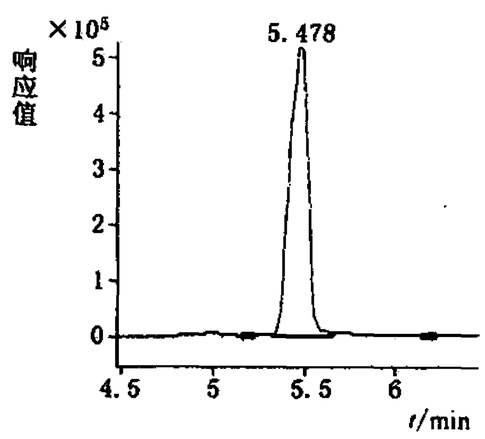
330 乙氧呋喃
(ethoxyquin)



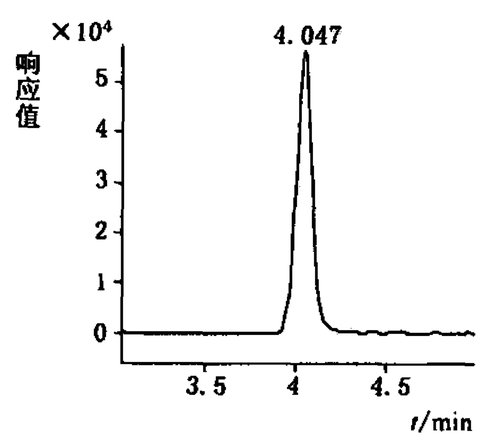
331. 敌敌畏
(dichlorvos)



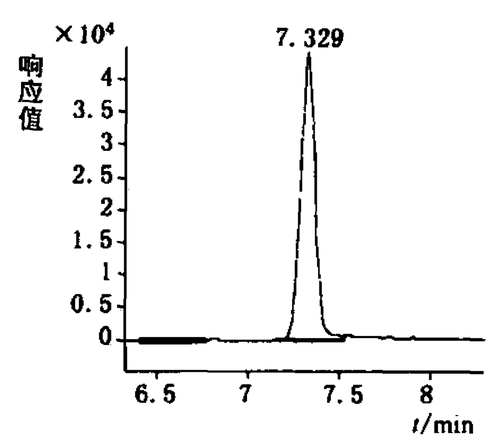
332. 涕灭威砜
(aldicarb sulfone)



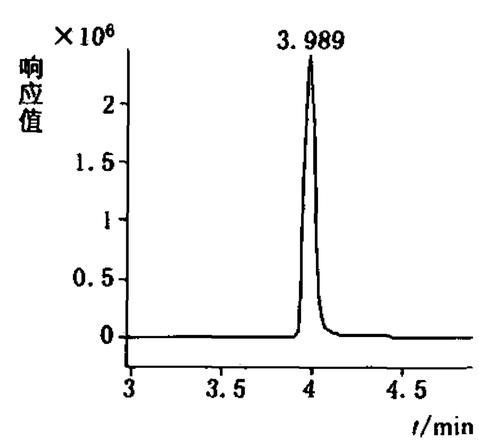
333. 二氧威
(dioxacarb)



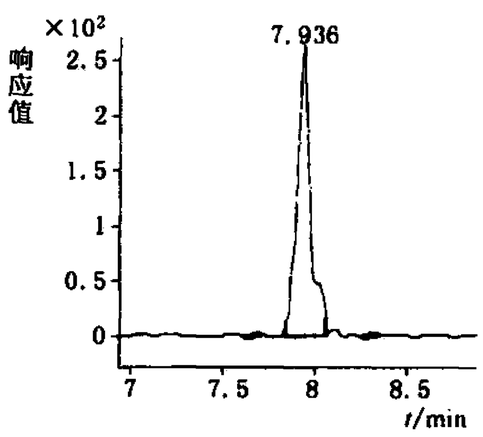
334 苄腺嘌呤
(benzyladenine)



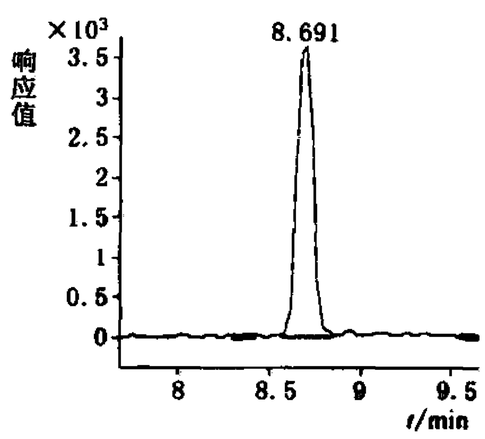
335. 甲基内吸磷
(demeton-s-methyl)



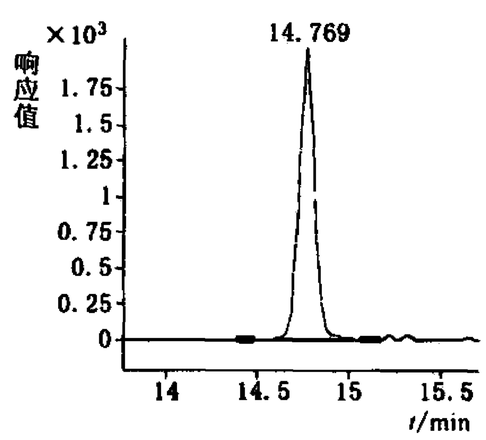
336. 杀虫丹亚砜
(ethiofencarb-sulfoxide)



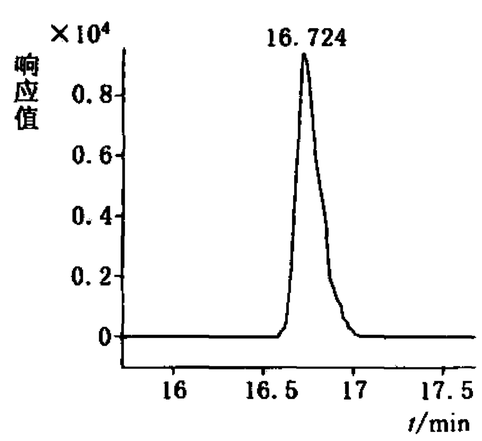
337 杀螟腈
(cyanohos)



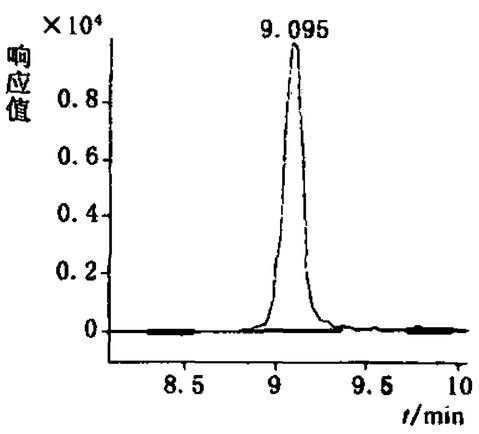
338. 甲基乙拌磷
(thiometon)



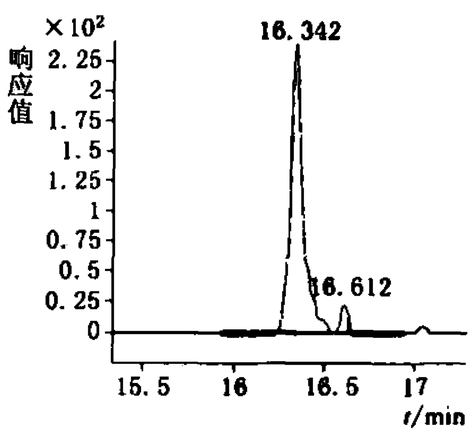
339. 灭菌丹
(folpet)



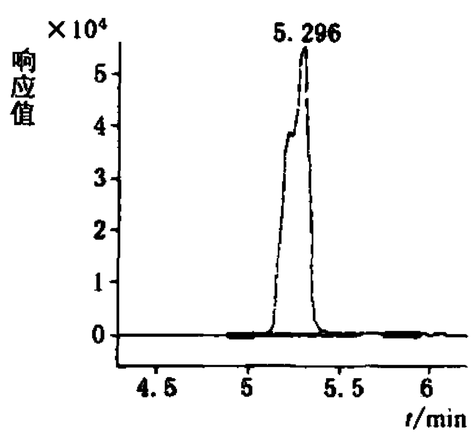
340. 呱草丹
(dimepiperate)



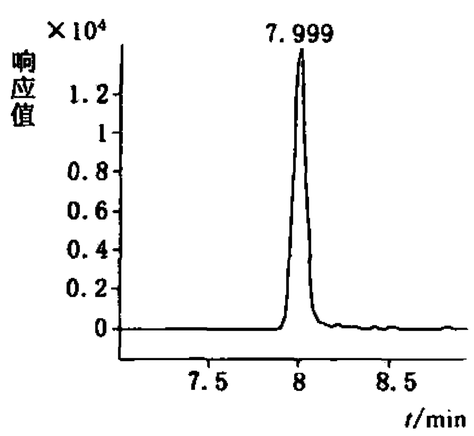
341. 苯锈定
(fenpropidin)



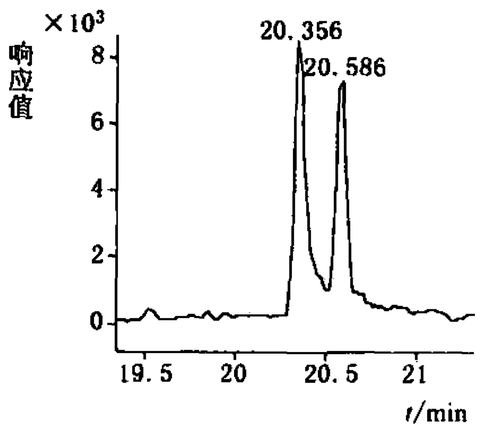
342 赛硫磷
(amidithion)



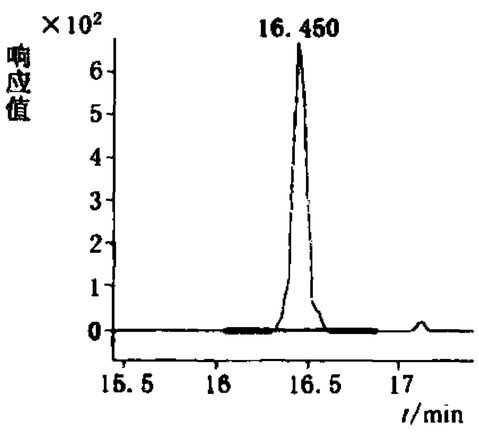
343. 甲咪唑烟酸
(imazapic)



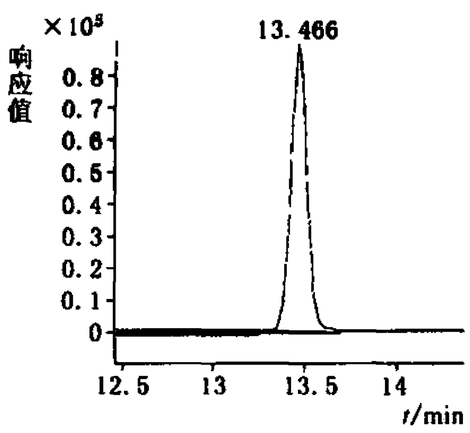
344. 甲基对氧磷
(paraoxon-ethyl)



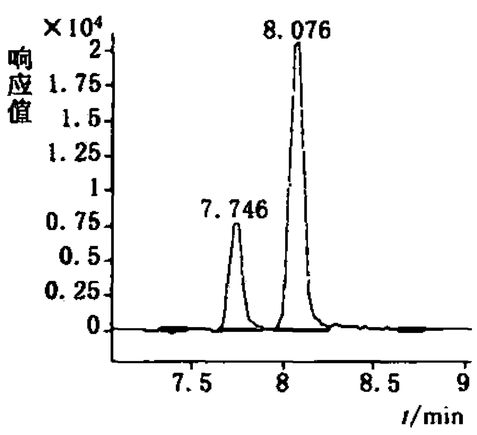
345. 4-十二烷基-2,6-
二甲基吗啉
(aldimorph)



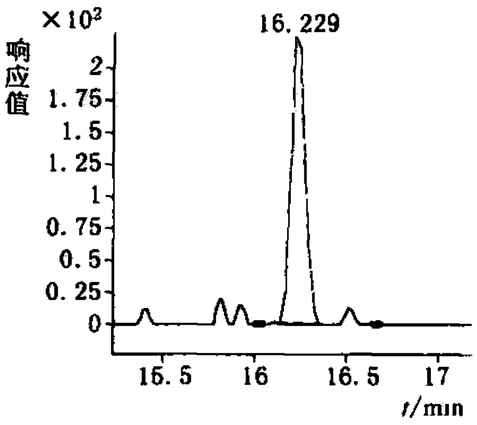
346. 乙烯菌核利
(vinclozolin)



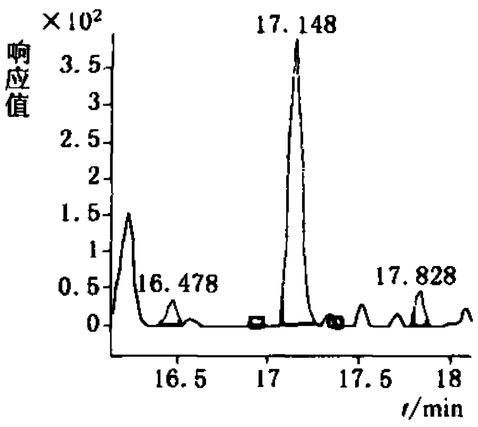
347. 烯效唑
(uniconazole)



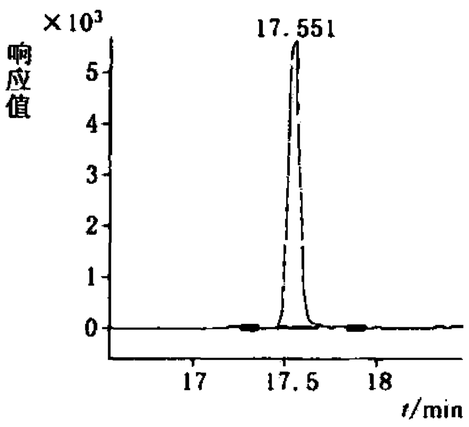
348. 啶斑肟
(pyrifenox)



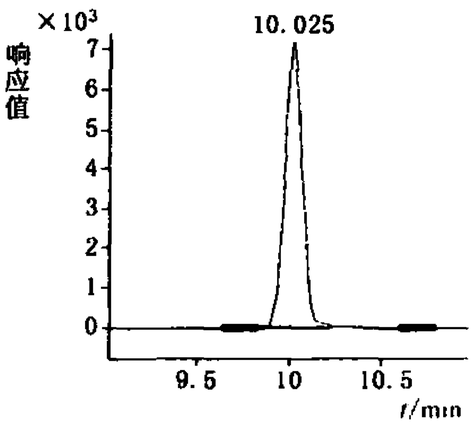
349. 氯硫磷
(chlorthion)



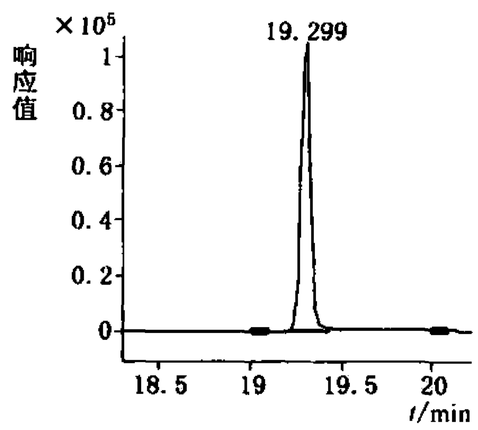
350. 异氯磷
(dicapthon)



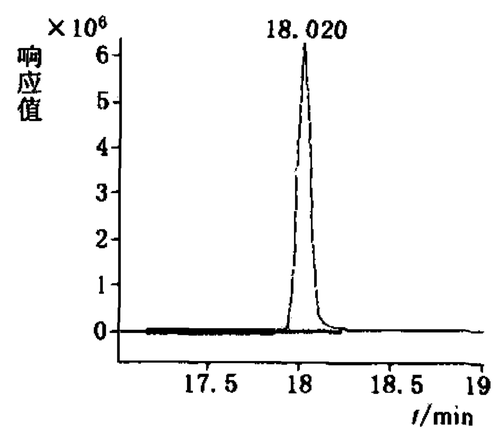
351. 四螨嗪
(clofentezine)



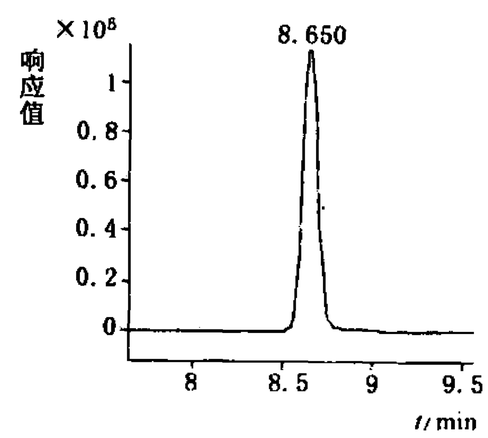
352. 氟草敏
(norflurazon)



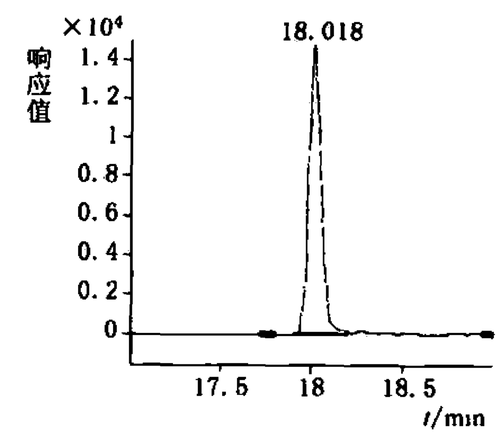
353. 野麦畏
(triallate)



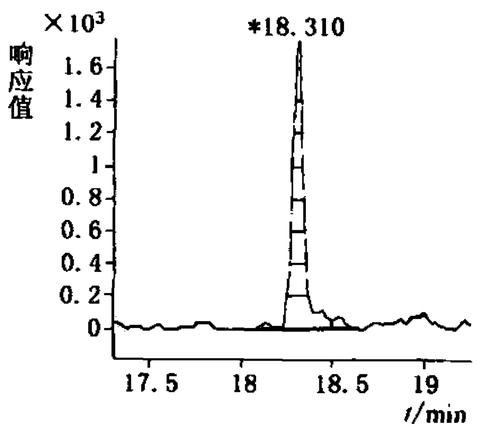
354. 苯氧喹啉
(quinoxyphen)



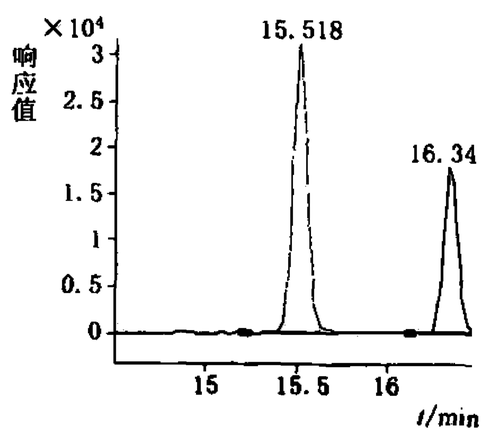
355. 倍硫磷砜
(fenthion sulfone)



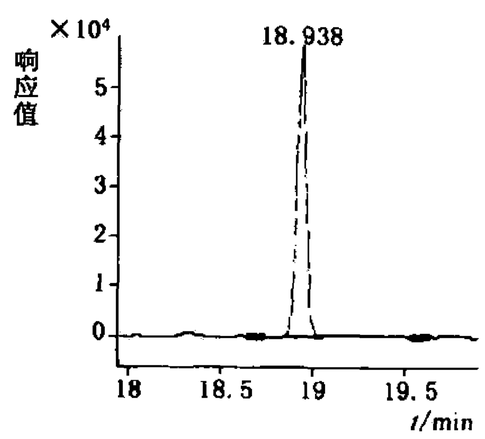
356. 氟咯草酮
(flurochloridone)



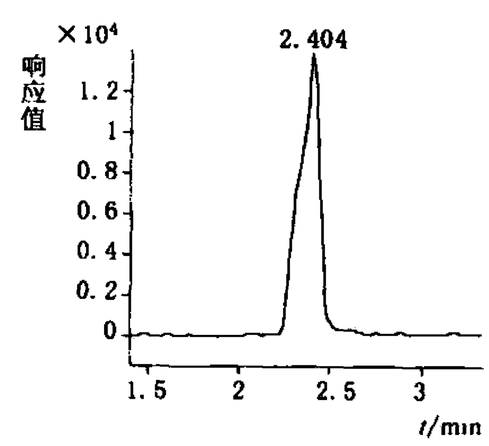
357. 酞酸苯甲基丁酯
(phthalic acid, benzyl butyl ester)



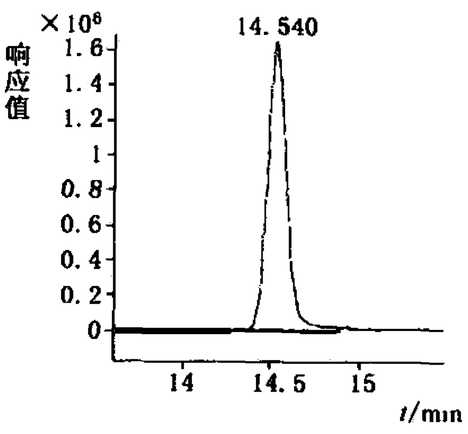
358. 氯唑磷
(isazofos)



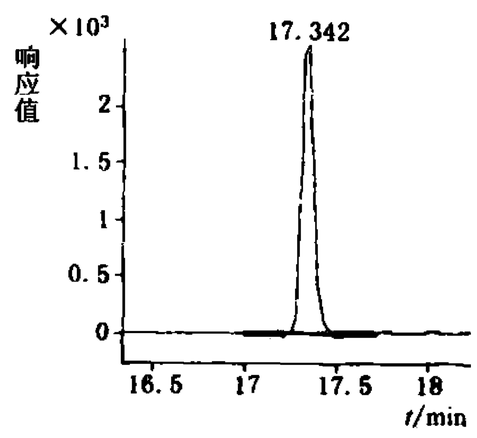
359. 除线磷
(dichlofenthion)



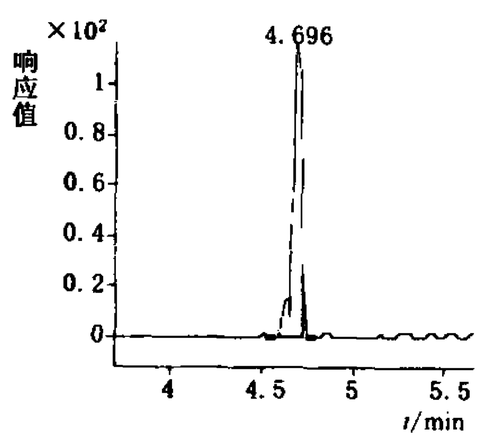
360. 蚜灭多砜
(vamidothion sulfone)



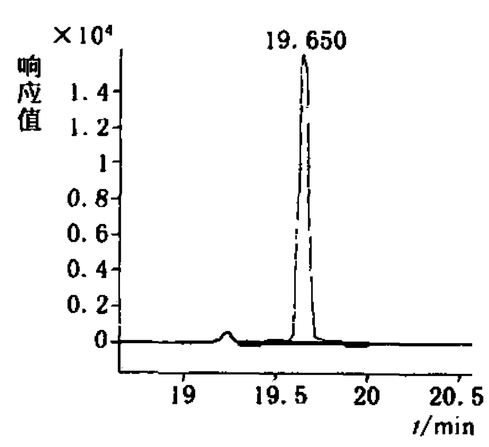
361 特丁硫磷砜
(terbufos sulfone)



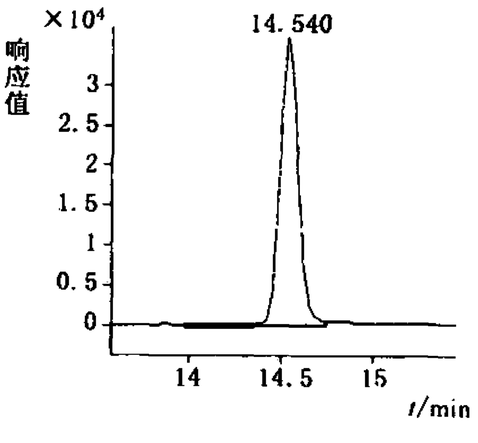
362. 敌乐胺
(dinitramine)



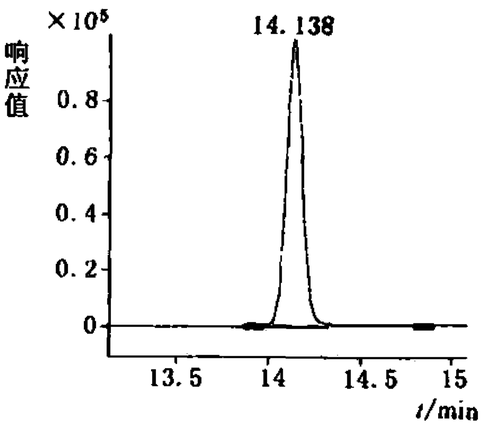
363. 氰霜唑
(cyazofamid)



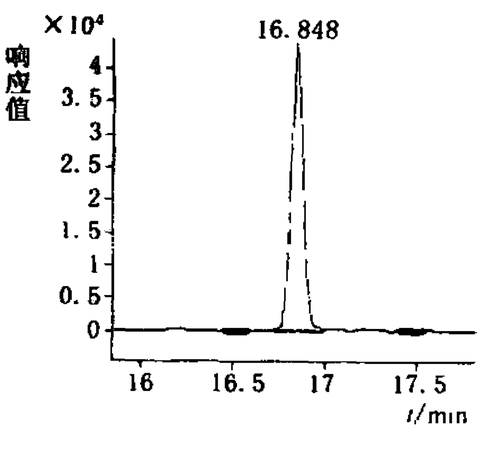
364 毒壤磷
(trichloronat)



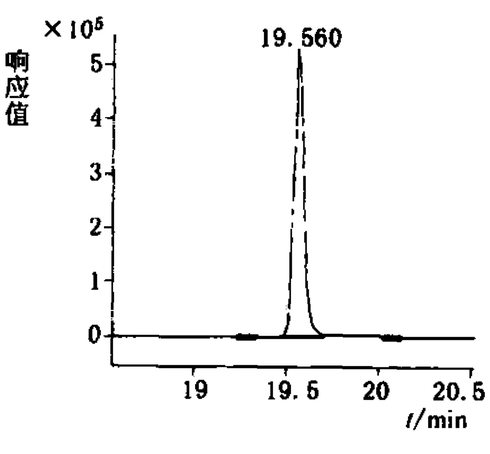
365. 苄呋菊酯
(resmethrin-2)



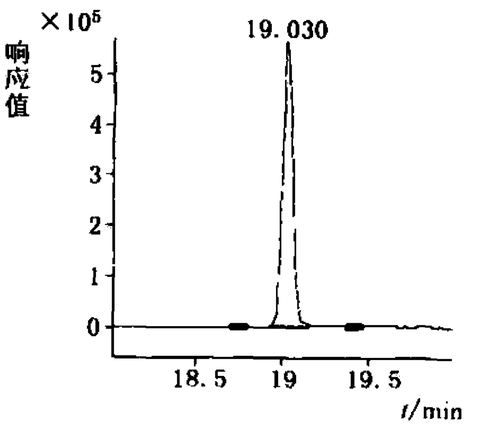
366. 啶酰菌胺
(boscalid)



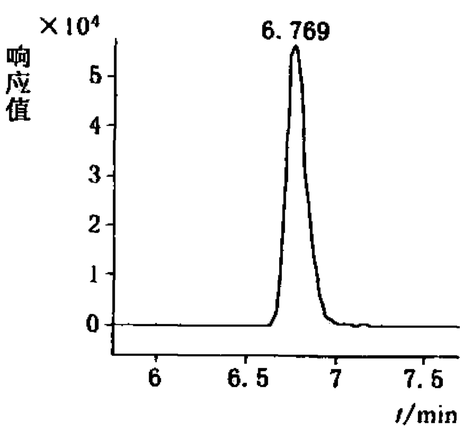
367 甲磺乐灵
(nitralin)



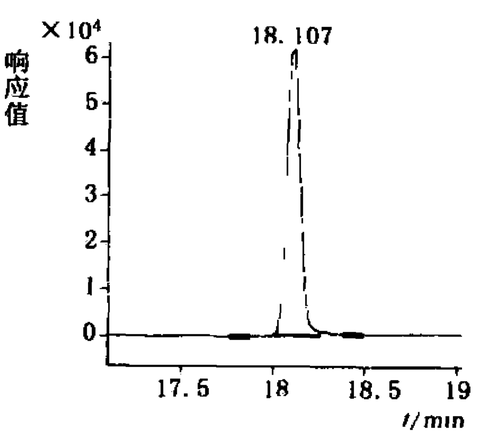
368. 甲氰菊酯
(fenpropathrin)



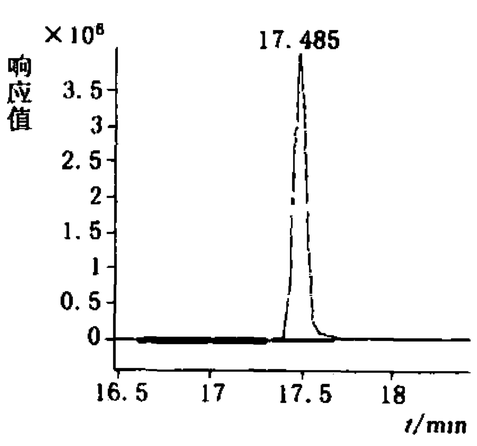
369. 噻螨酮
(hexythiazox)



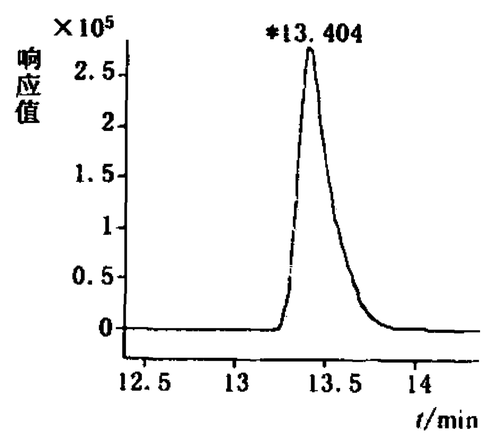
370 双氟磺草胺
(florasulam)



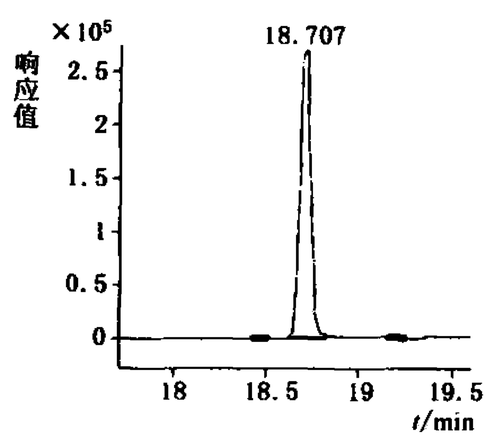
371. 苯螨特
(benzoximate)



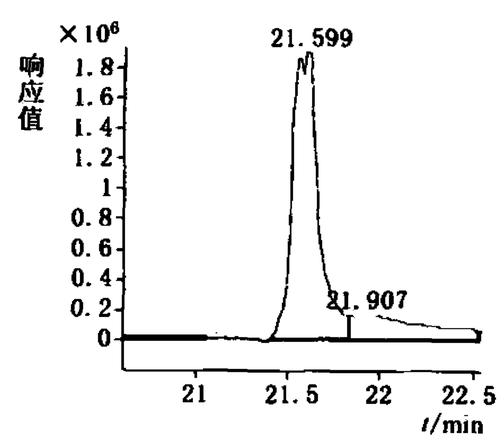
372. 新燕灵
(benzoylprop-ethyl)



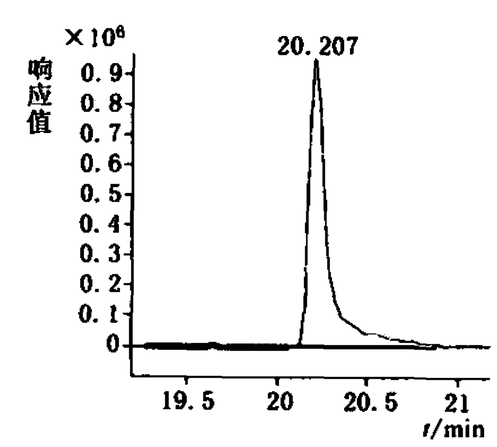
373. 呋草唑
(pyrimidifen)



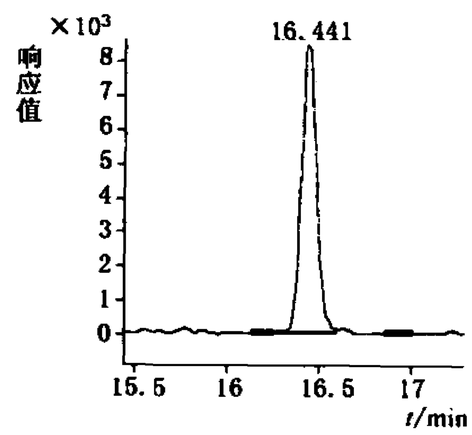
374. 呋线威
(furathiocarb)



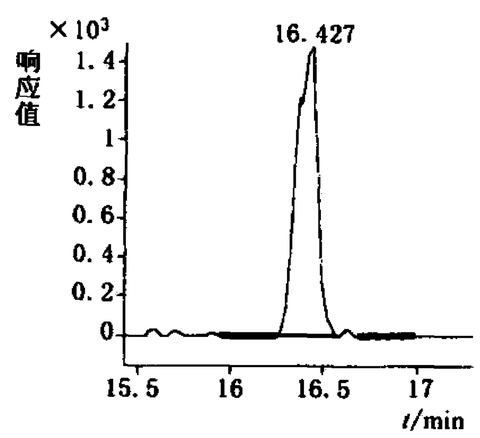
375. 反式氯菊酯
(*trans*-permethin)



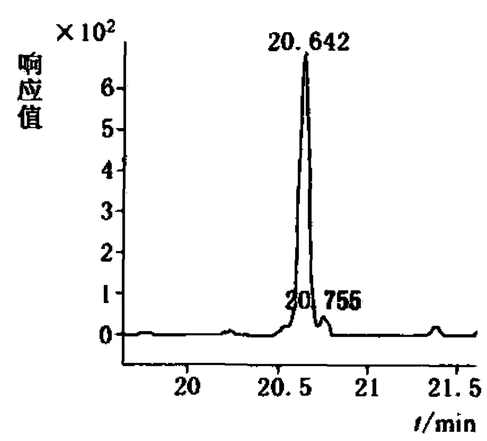
376. 醚菊酯
(etofenprox)



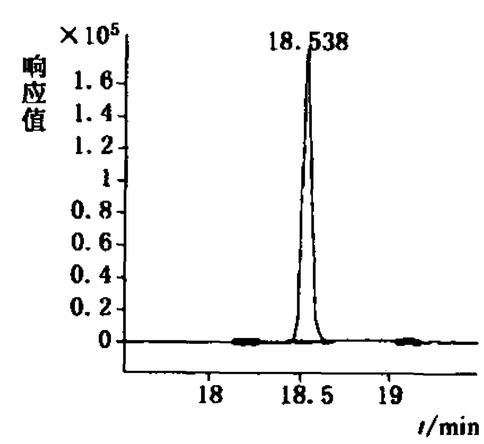
377 苄草唑
(pyrazoxyfen)



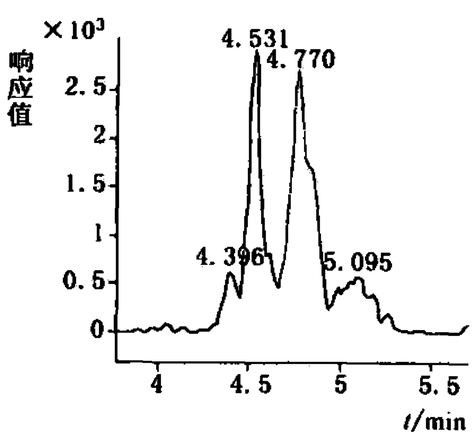
378. 嘧唑螨
(flubenzimine)



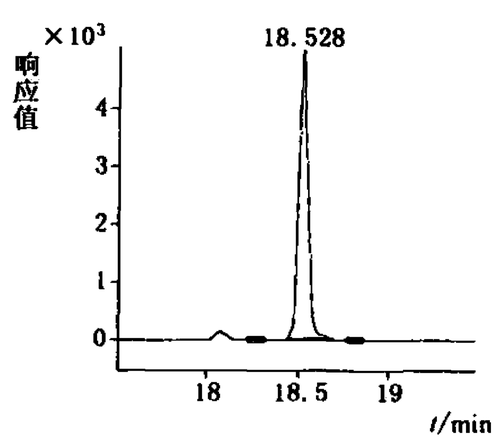
379. *Z*-氯氰菊酯
(*zeta* cypermethrin)



380 氟吡乙禾灵
(haloxyfop-2-ethoxyethyl)

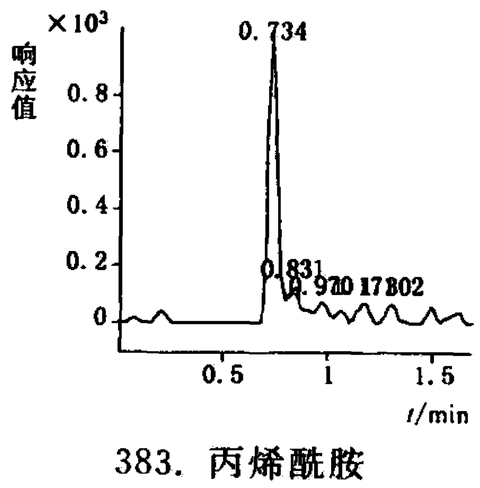


381. *S*-氰戊菊酯
(esfenvalerate)

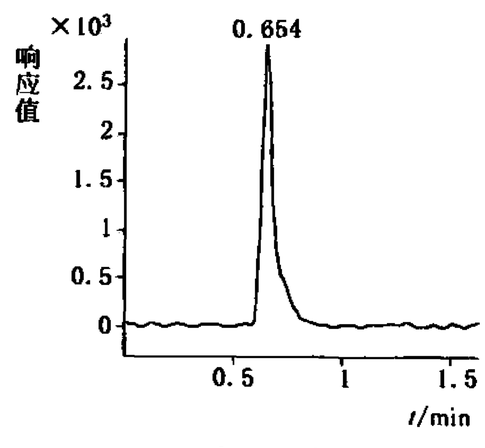


382. 乙羧氟草醚
(fluoroglycofen-ethyl)

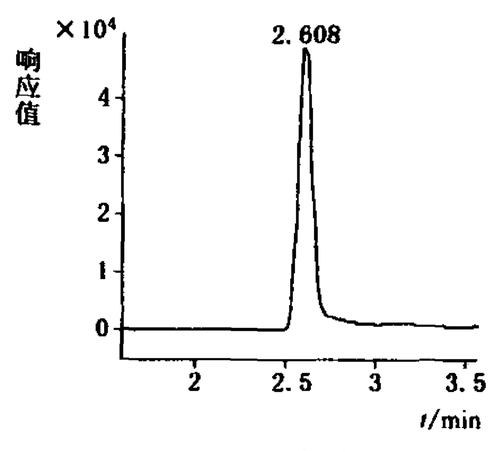
F 组



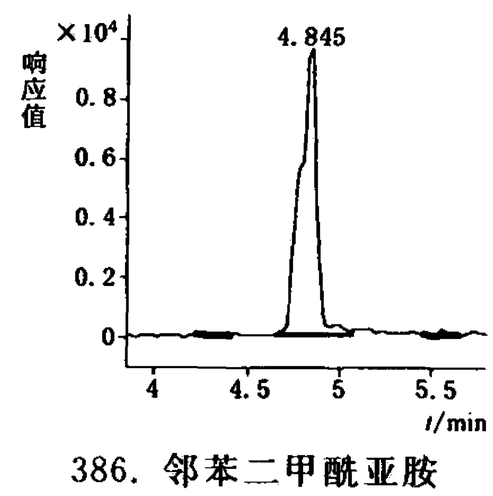
383. 丙烯酰胺
(acrylamide)



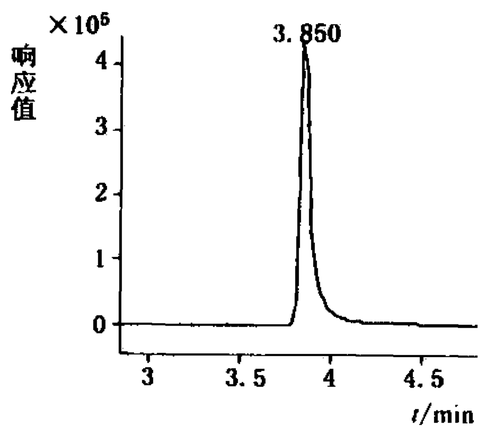
384. 叔丁基胺
(*tert*-butylamine)



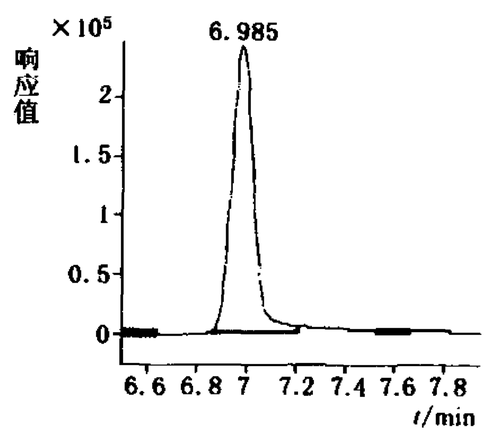
385. 噁霉灵
(hymexazol)



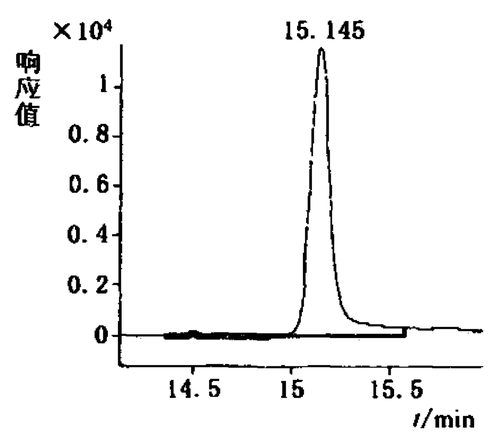
386. 邻苯二甲酰亚胺
(phthalimide)



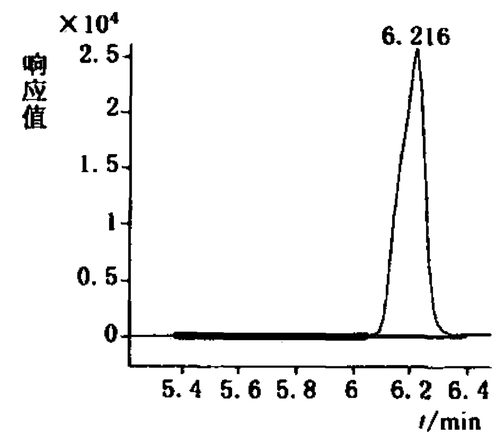
387. 甲氟磷
(dimefox)



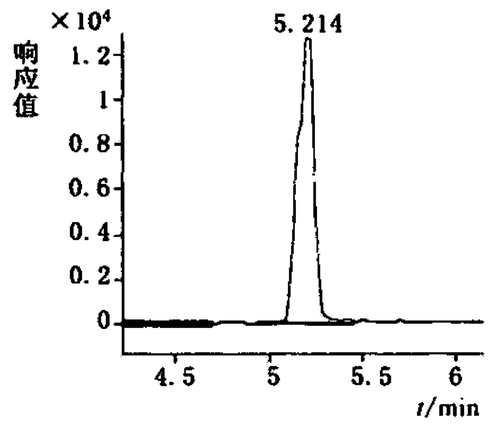
388. 速灭威
(metolcarb)



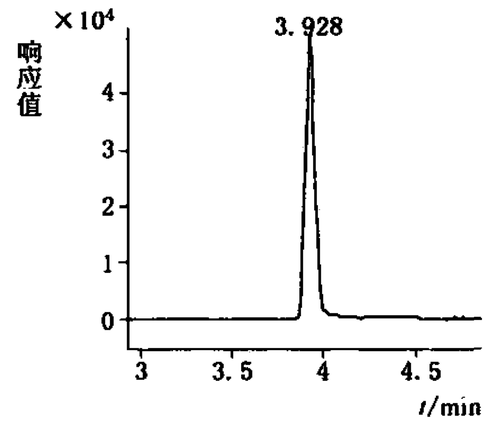
389. 二苯胺
(diphenylamin)



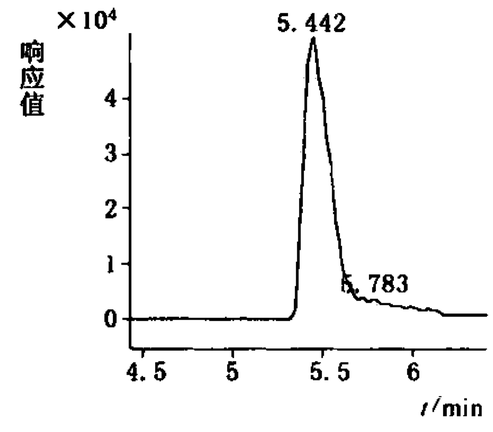
390. 萘乙酸基乙酰亚胺
(1-naphthy acetamide)



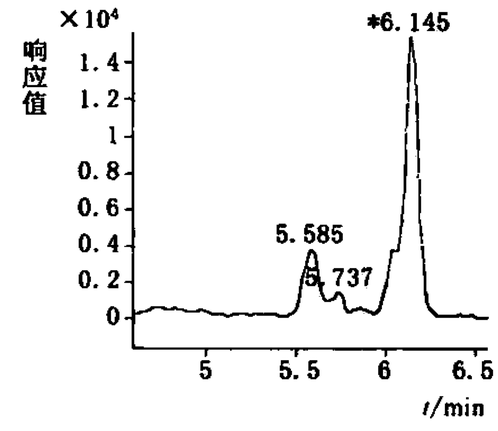
391. 乙基-阿特拉津
(atrazine-desethyl)



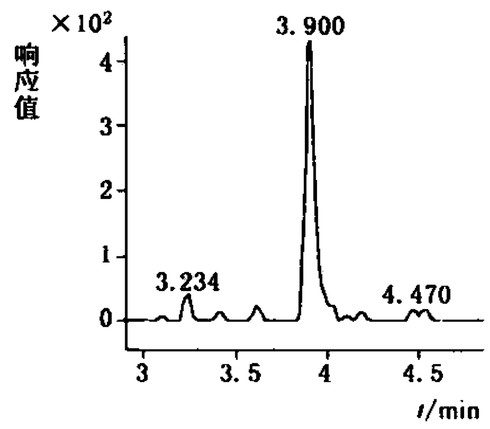
392 2,6-二氯苯甲酰胺
(2,6-dichlorobenzamide)



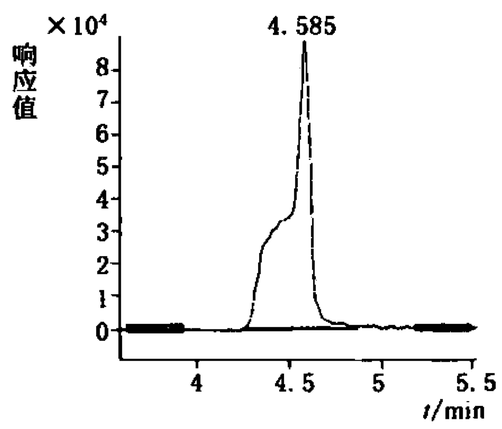
393 涕灭威
(aldicarb)



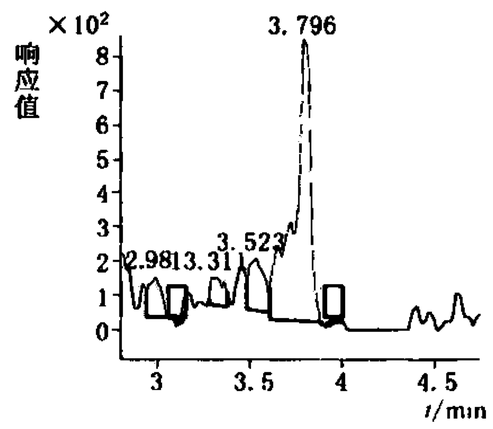
394. 酞酸二甲酯
(dimethyl phthalate)



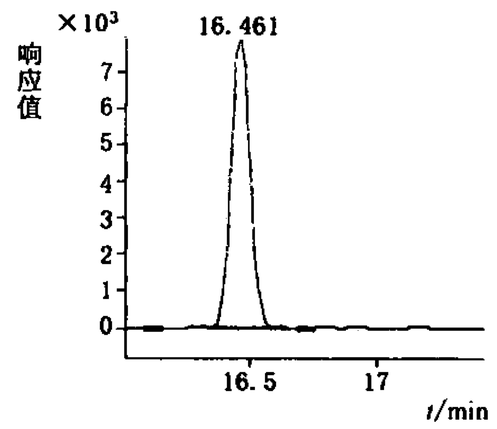
395. 杀虫脒盐酸盐
(chlordimeform hydrochloride)



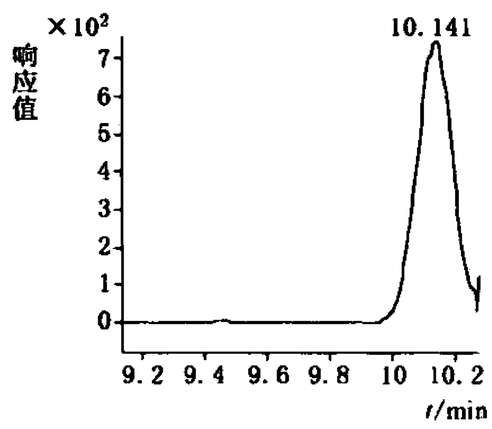
396. 西玛通
(simeton)



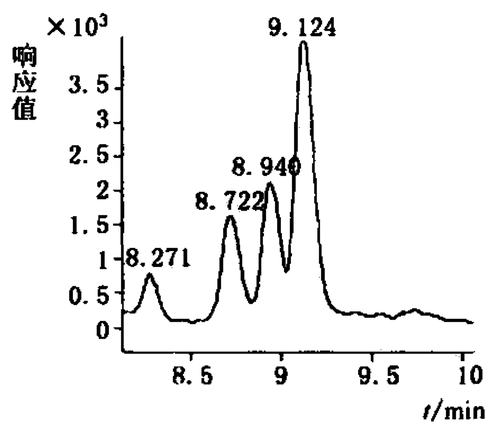
397 呋虫胺
(dinotefuran)



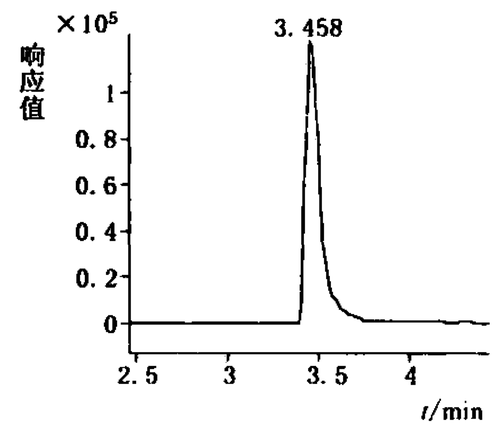
398. 克草敌
(pebulate)



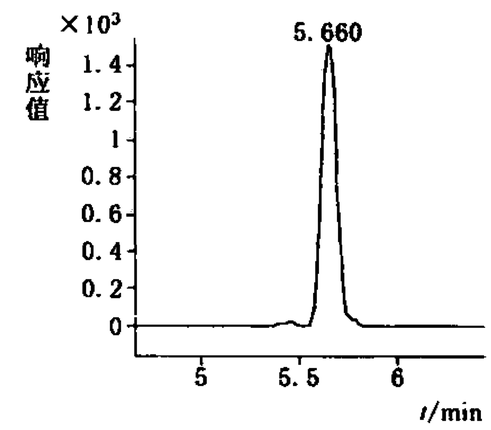
399. 活化酯
(acibenzolar-s-methyl)



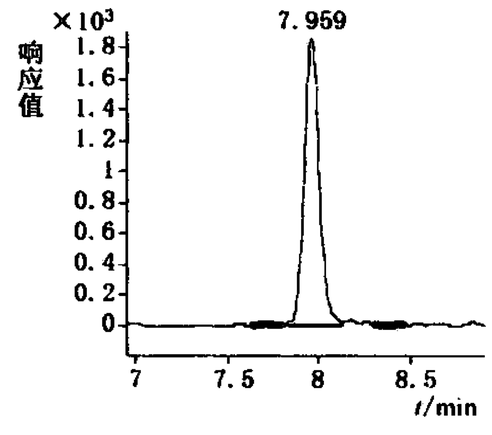
400. 蔬果磷
(dioxabenzofos)



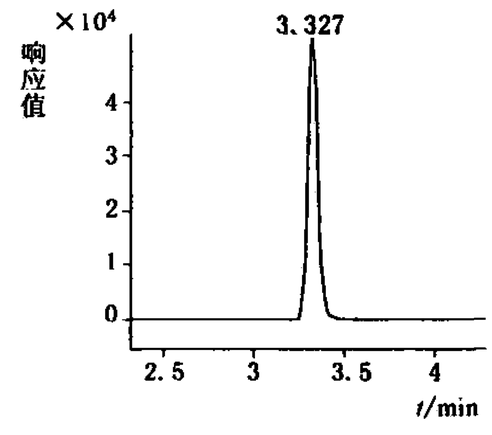
401. 杀线威
(oxamyl)



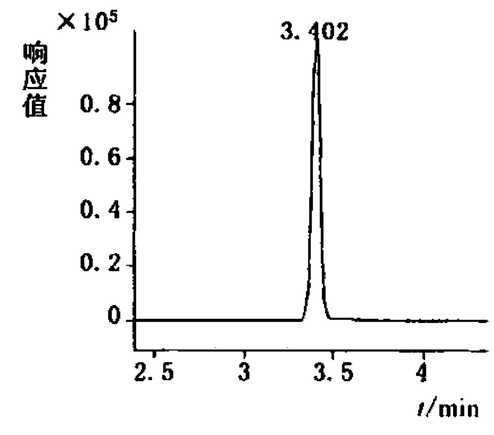
402. 赛苯隆
(thidiazuron pestanal)



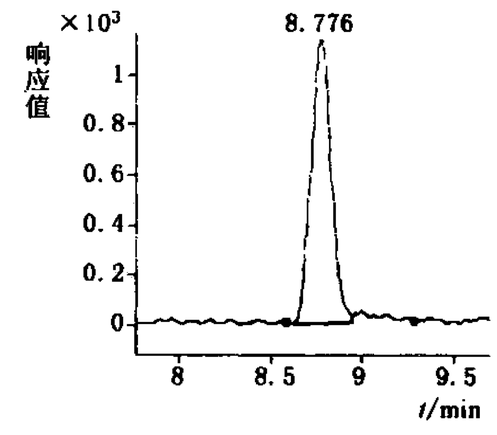
403. 甲基苯噻隆
(methabenzthiazuron)



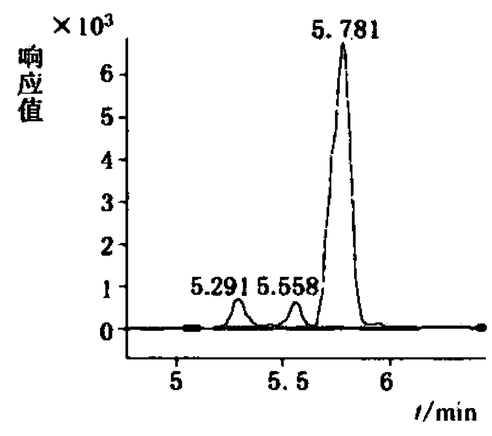
404. 丁酮砜威
(butoxycarboxim)



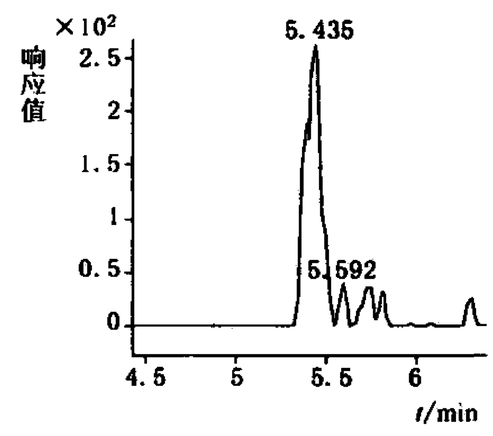
405. 砜吸磷
(demeton-s-methyl sulfoxide)



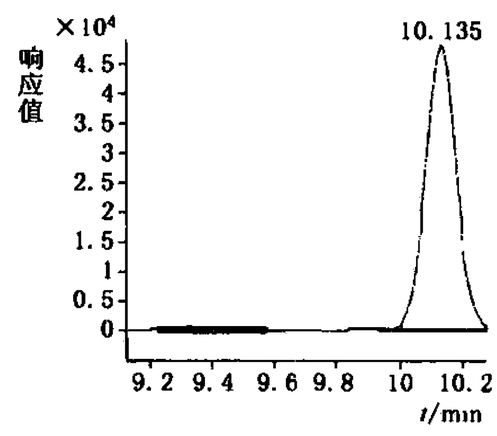
406. 久效威砜
(thiofanox sulfone)



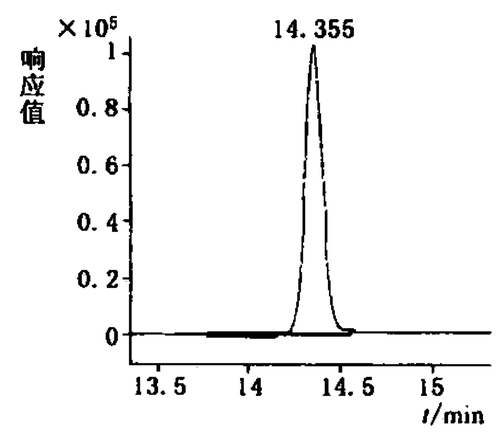
407 硫环磷
(phosfolan)



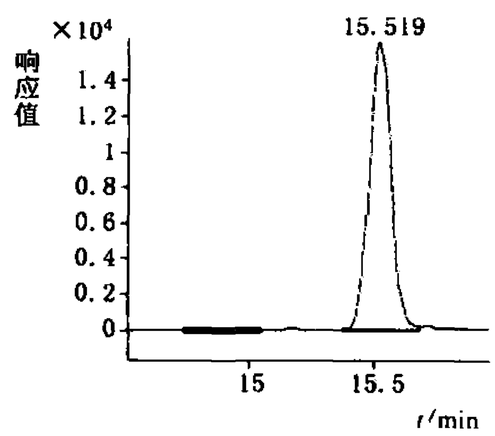
408. 硫赶内吸磷
(demeton-s)



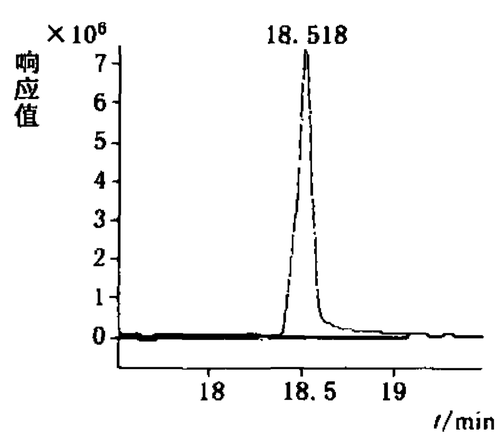
409 氧倍硫磷
(fenthion oxon)



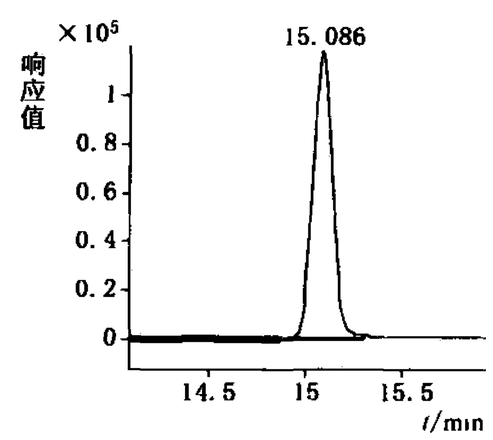
410. 萘丙胺
(napropamide)



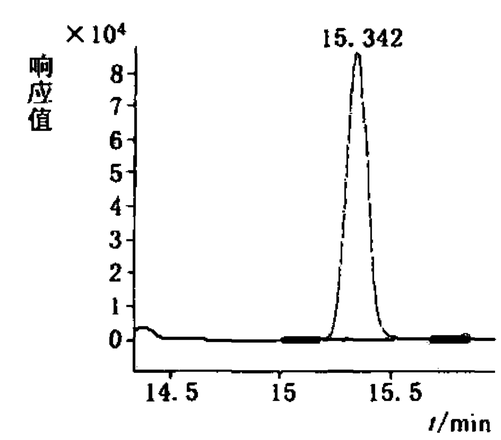
411 杀螟硫磷
(fenitrothion)



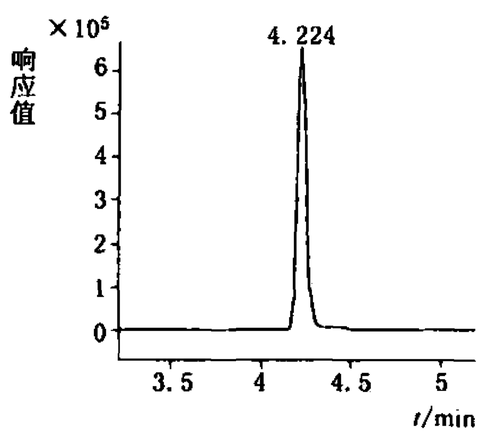
412 酞酸二丁酯
(phthalic acid, dibutyl ester)



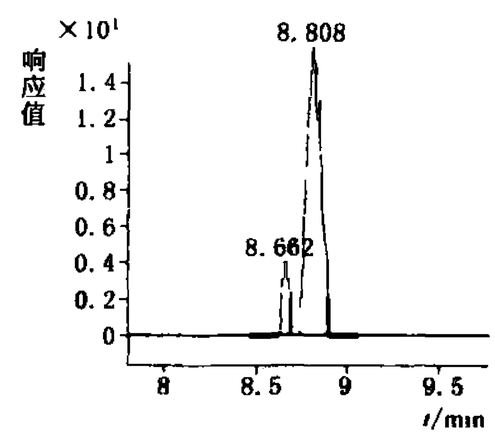
413. 丙草胺
(metolachlor)



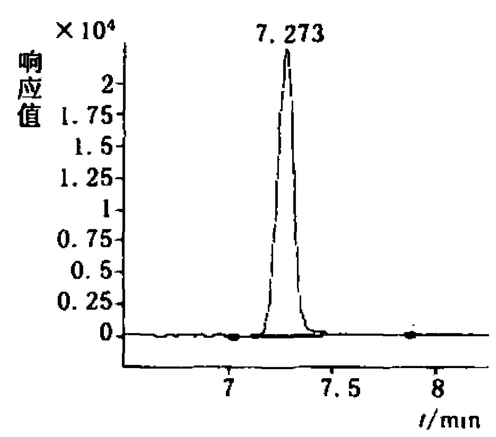
414. 腐霉利
(procymidone)



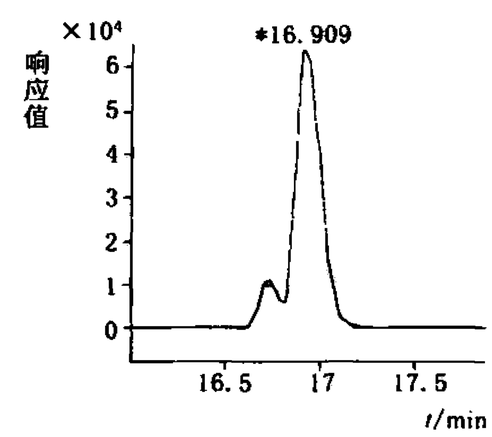
415. 蚜灭磷
(vamidothion)



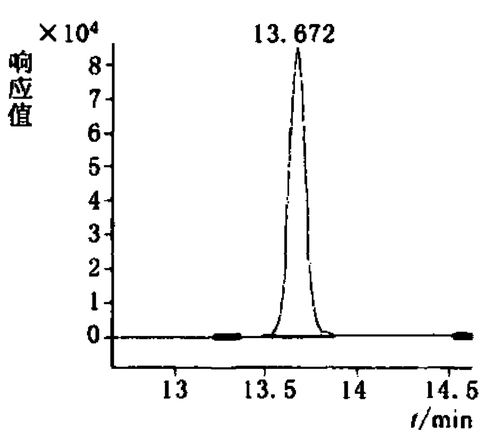
416. 枯草隆
(chloroxuron)



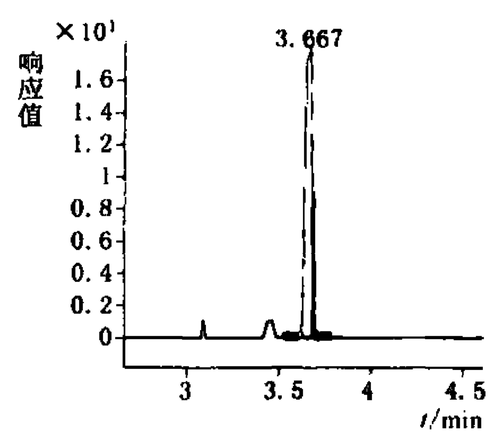
417 威菌磷
(triamiphos)



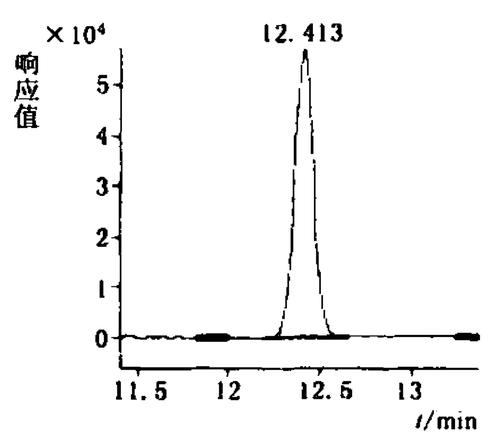
418. 右旋炔丙菊酯
(prallethrin)



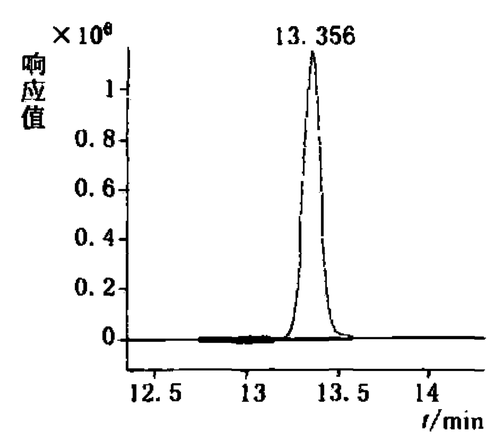
419. 可灭隆
(cumyluron)



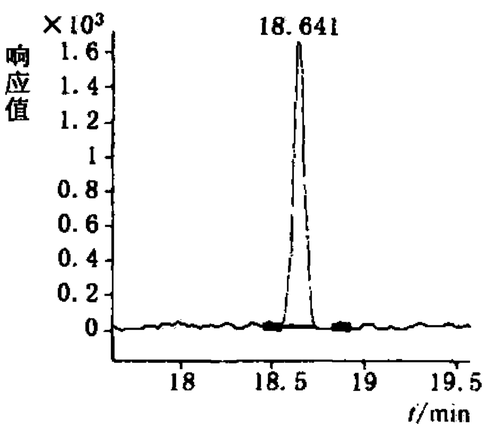
420. 甲氧咪草烟
(imazamox)



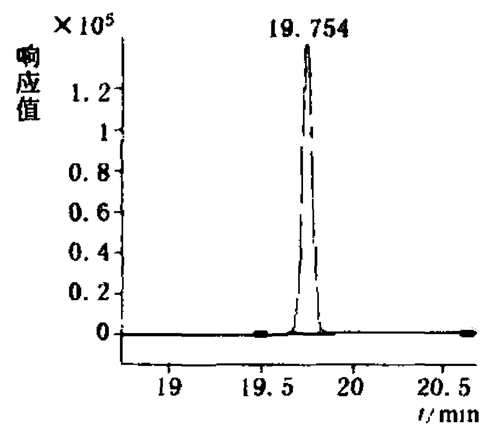
421. 杀鼠灵
(warfarin)



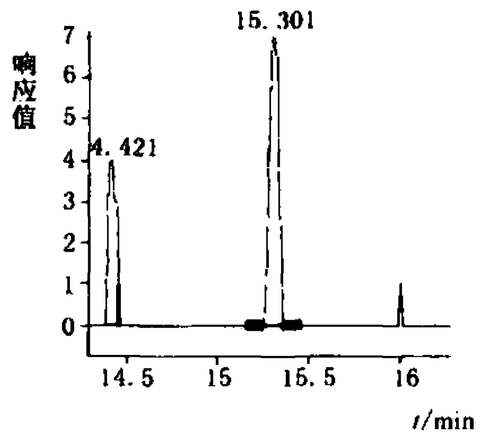
422. 亚胺硫磷
(phosmet)



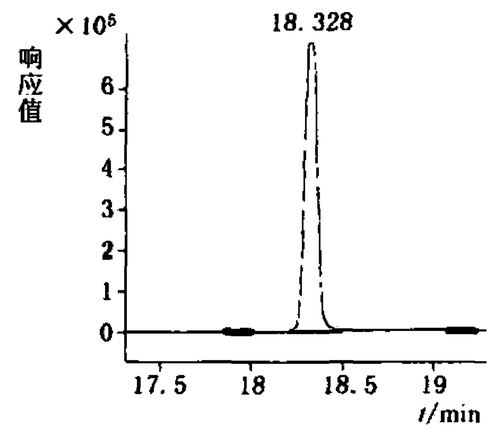
423. 皮蝇磷
(ronnel)



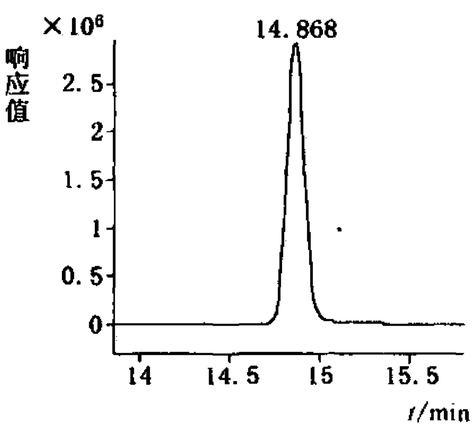
424 酞酸二环己酯
(phthalic acid, biscyclohexyl ester)



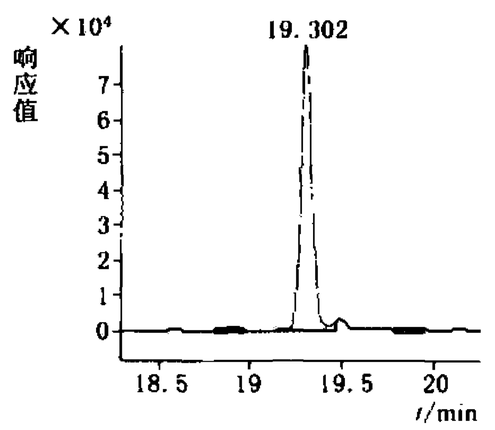
425. 环丙酰胺
(carpropamid)



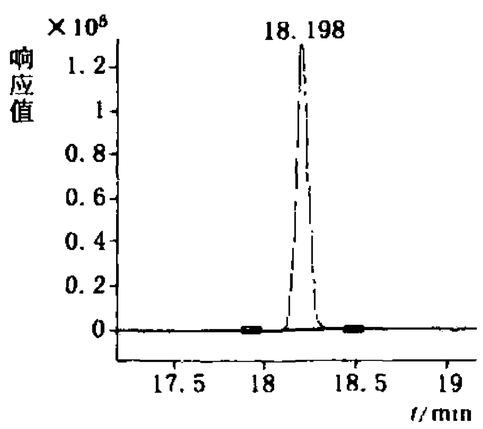
426. 吡螨胺
(tebufenpyrad)



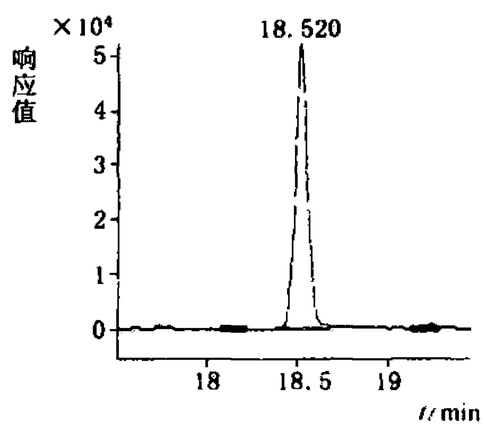
427. 虫酰肼
(tebufenozide)



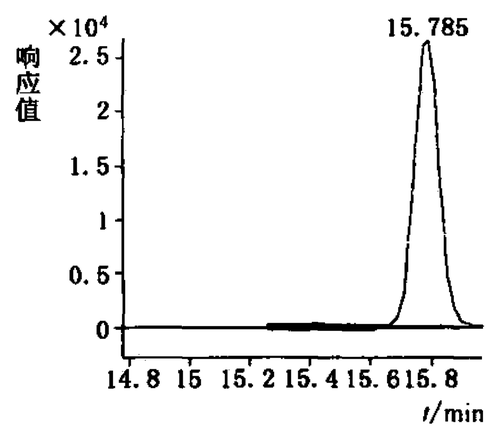
428. 虫螨磷
(chlorthiophos)



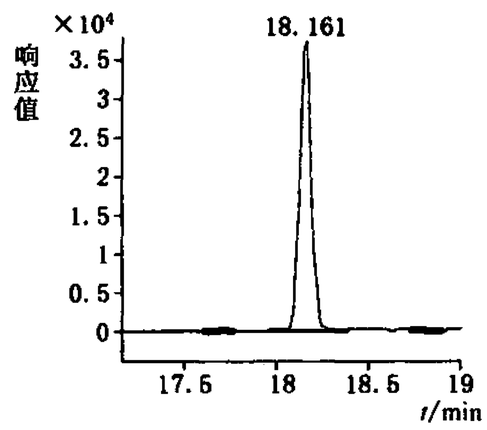
429. 毒壤磷
(dialifos)



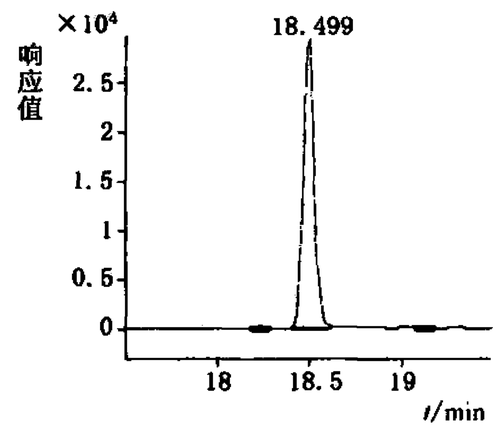
430. 吲哚酮草酯
(cinidon-ethyl)



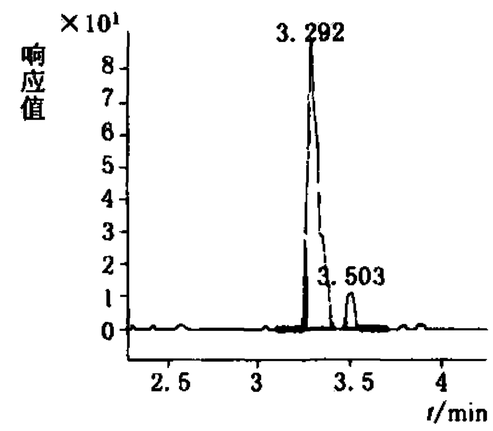
431. 鱼滕酮
(rotenone)



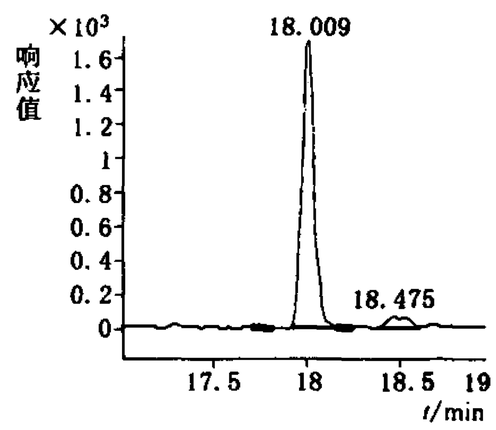
432. 亚胺唑
(imibenconazole)



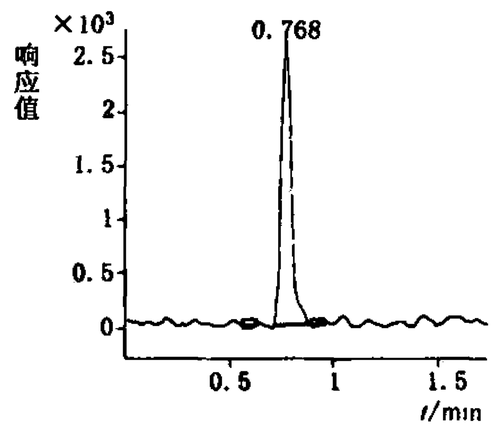
433. 噁草酸
(propaquıafop)



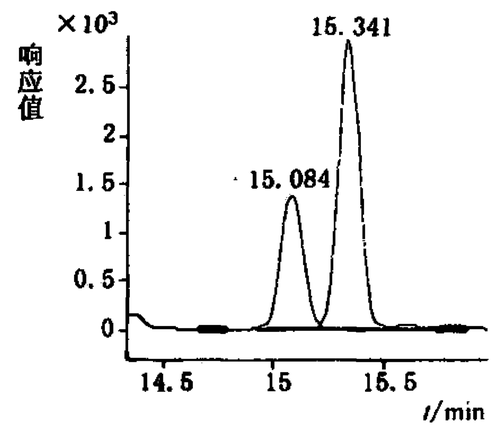
434. 2,3,4,5-四氯苯胺
(2,3,4,5-tetrachloroaniline)



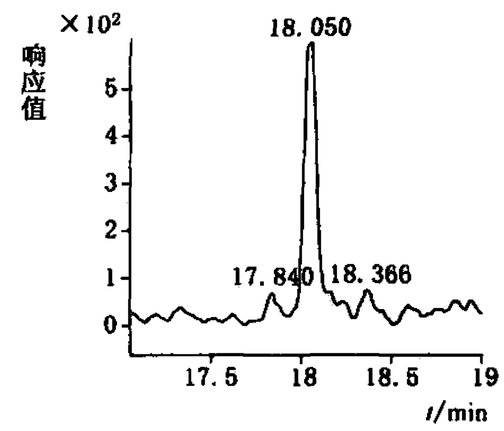
435. 吡草酮
(benzofenap)



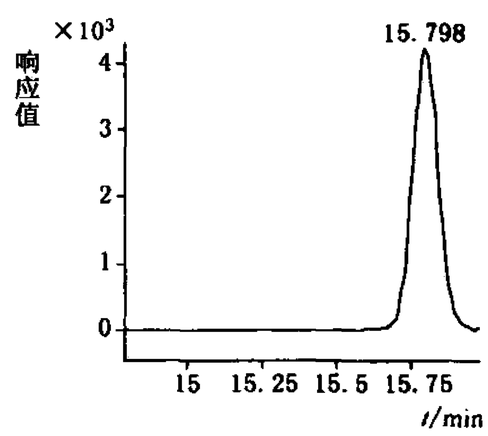
436. 地乐酯
(dınoseb acetate)



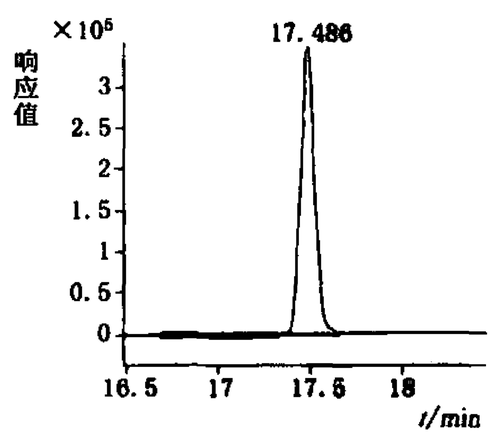
437 异丙草胺
(propısochlor)



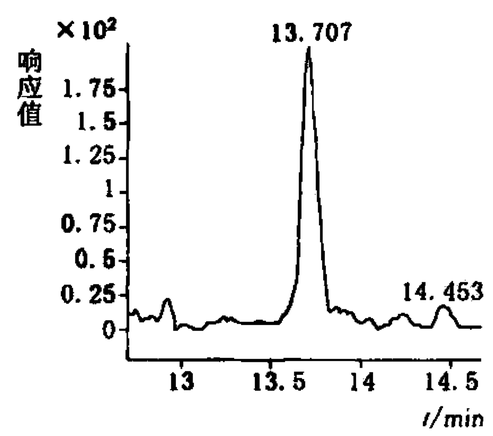
438. 氟硅菊酯
(silafluofen)



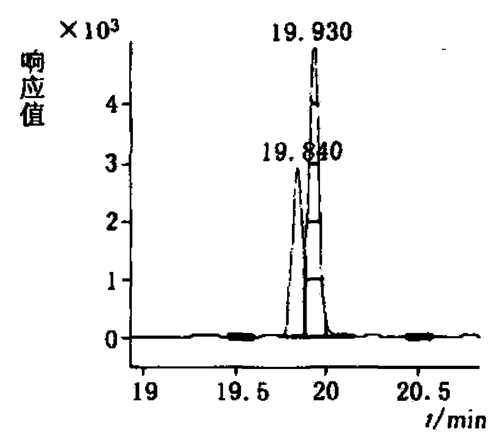
439. 乙氧苯草胺
(etobenzanid)



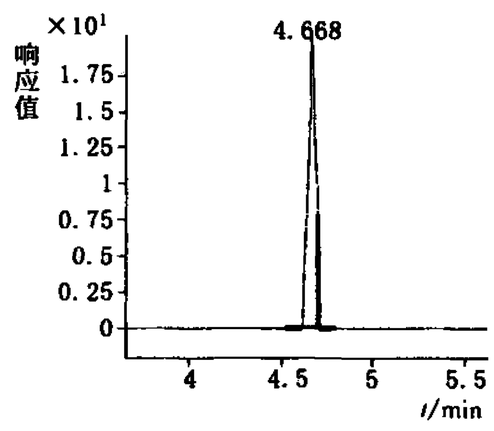
440. 四唑酰草胺
(fentrazamide)



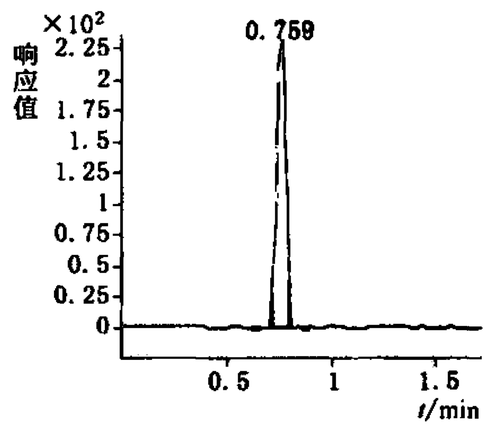
441. 五氯苯胺
(pentachloroaniline)



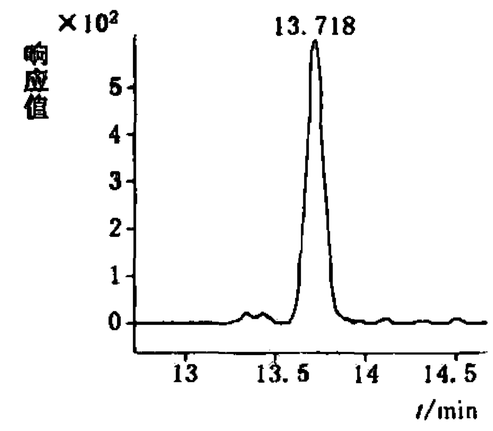
442. 苯醚氰菊酯
(cyphenothrin)



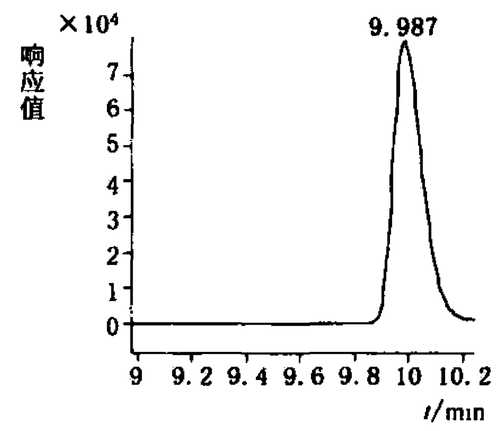
443. 狄氏剂
(dieldrın)



444 乙螨唑
(etoxazole)

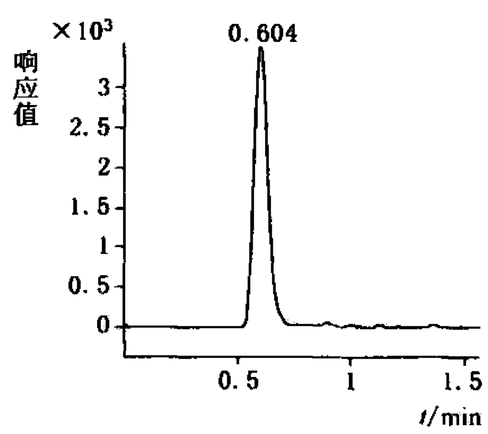


445. 马拉氧磷
(malaoxon)

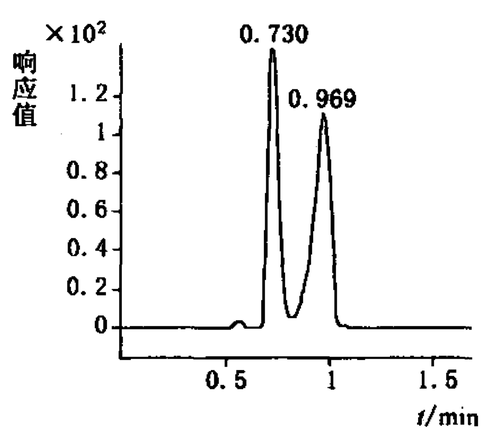


446. 多果定
(dodine)

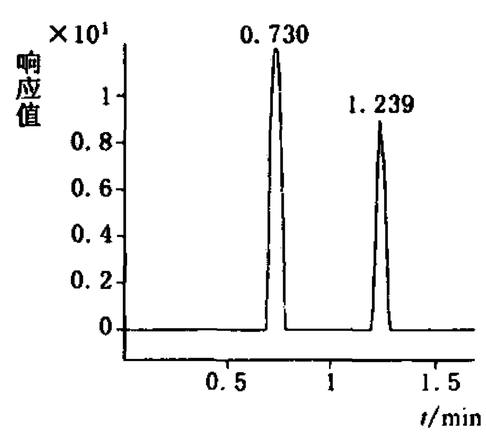
G 组



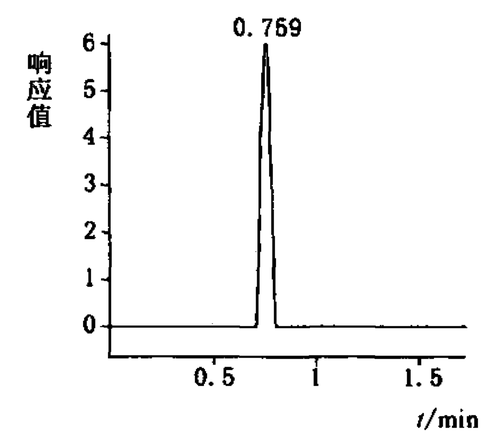
447 茅草枯
(dalapon)



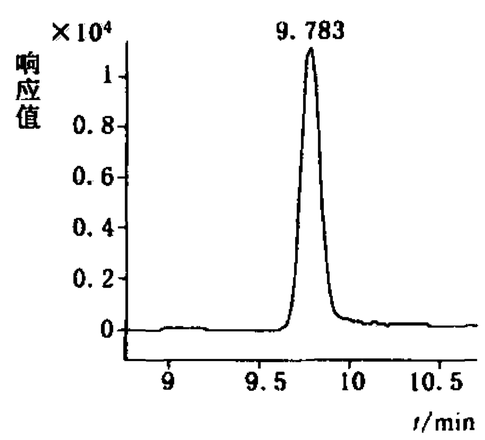
448. 四氟丙酸
(flupropanate)



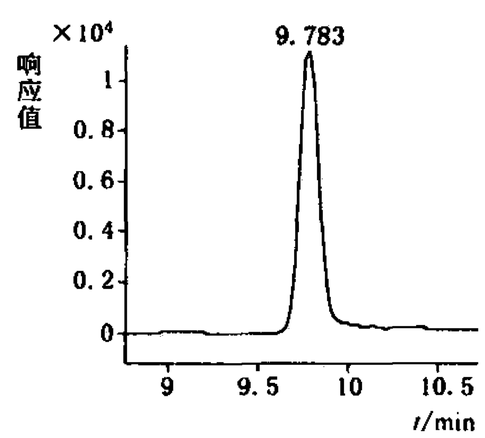
449. 2,6-二氟苯甲酸
(2,6-difluorobenzoıc acid)



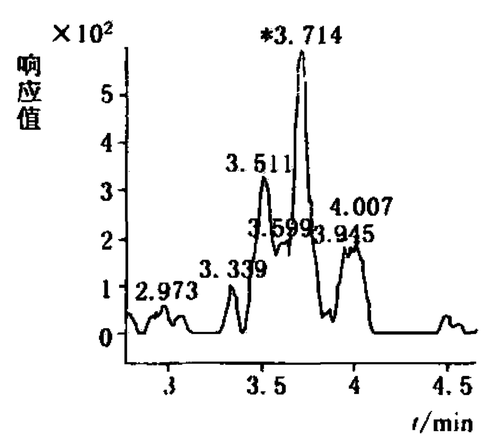
450 三氯乙酸钠
(trıchloroacetic acid sodium salt)



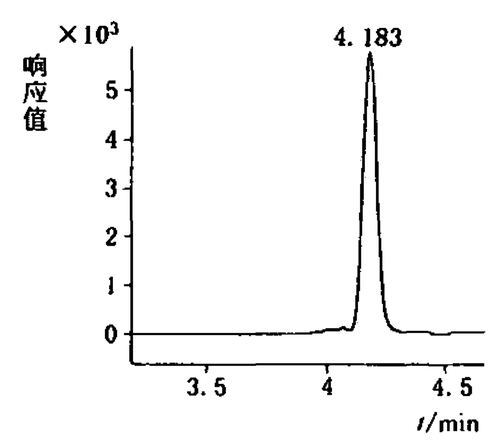
451. 2-苯基苯酚
(2-phenylphenol)



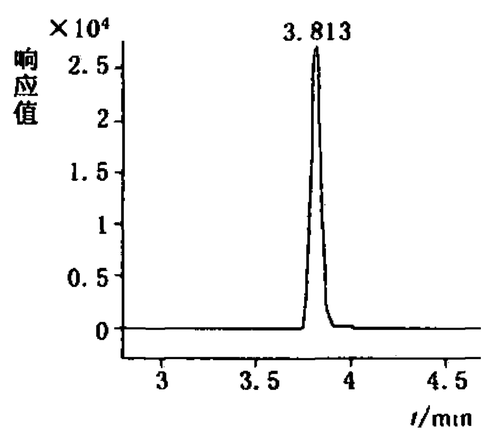
452. 3-苯基苯酚
(3-phenylphenol)



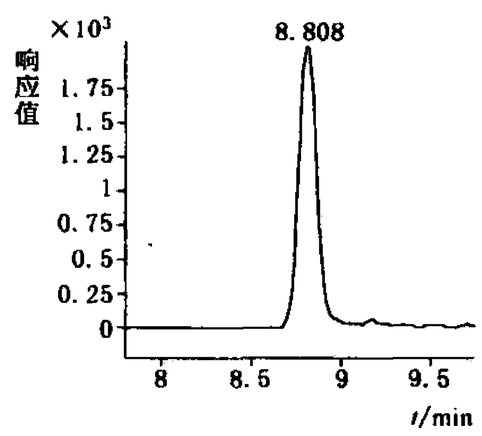
453. 二氯吡啶酸
(clopyralld)



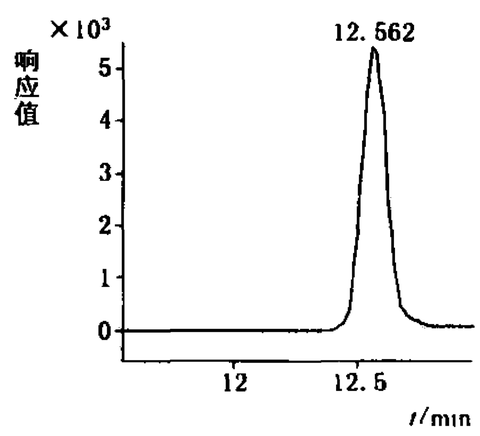
454. 4,6-二硝基邻甲酚
(DNOC)



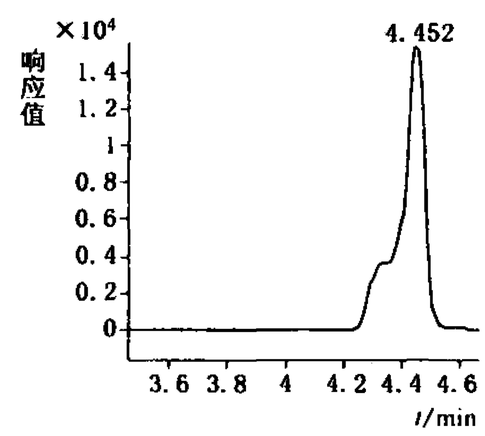
455 调果酸
(cloprop)



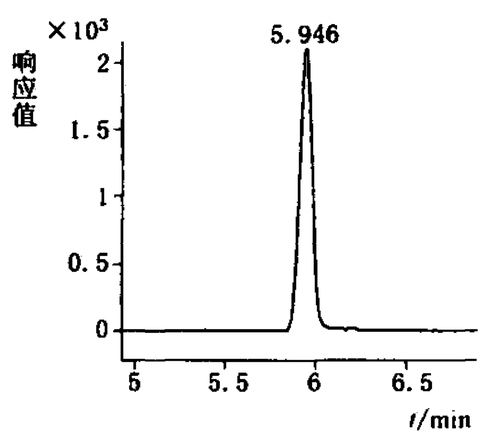
456. 氯硝胺
(dicloran)



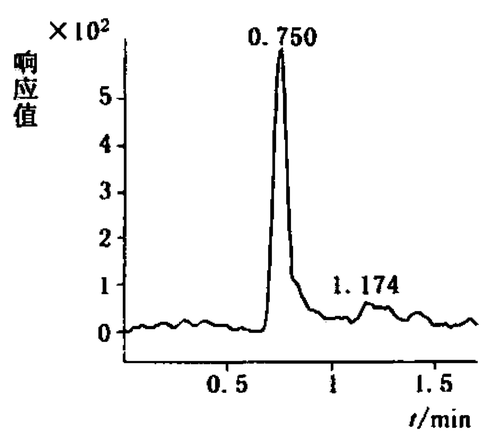
457 氯苯胺灵
(chlorpropham)



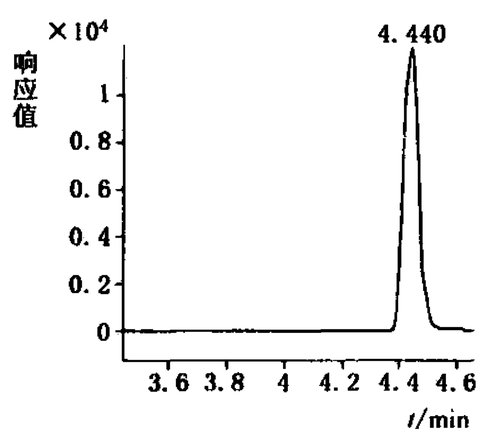
458. 2-甲-4-氯丙酸
(mecoprop)



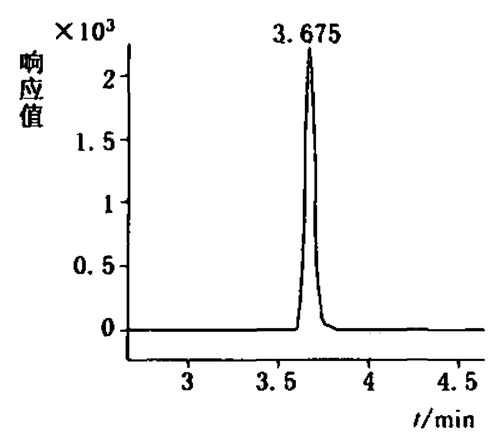
459 特草定
(terbacil)



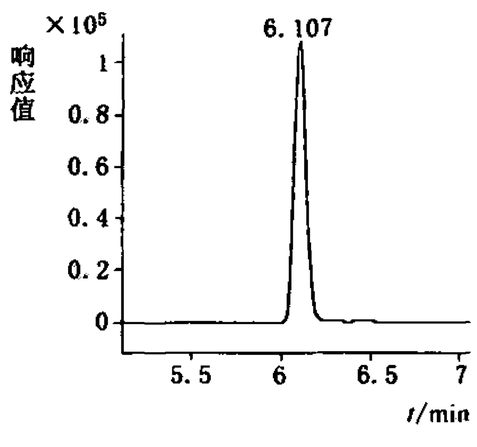
460. 麦草畏
(dicamba)



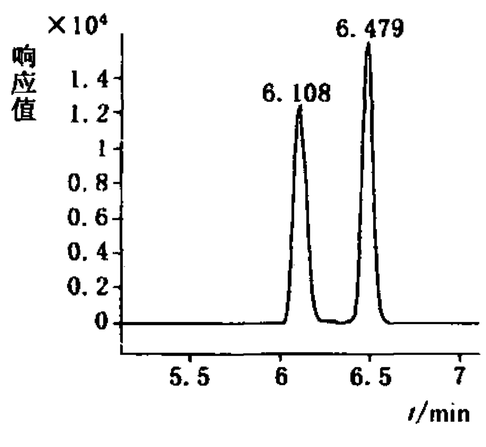
461. 二甲四氯丁酸
(MCPB)



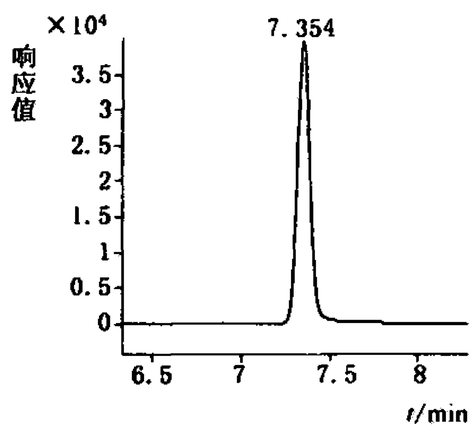
462. 灭草松
(bentazone)



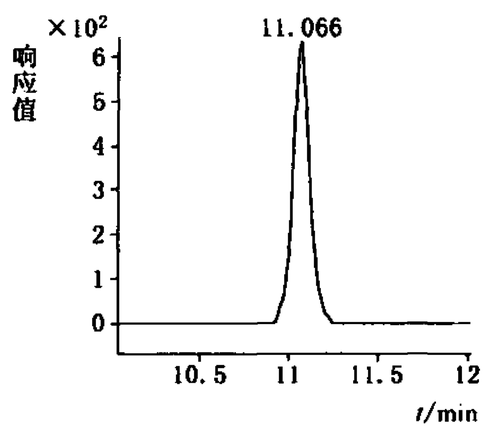
463. 地乐酚
(dinoseb)



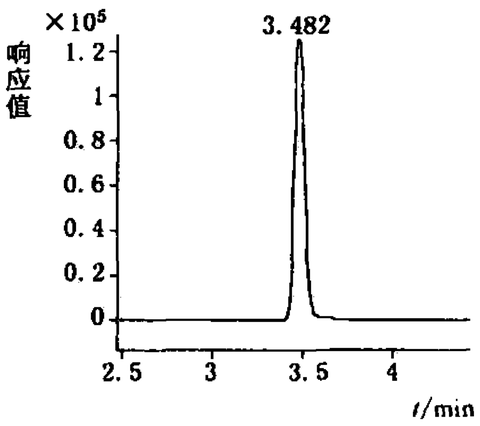
464. 草消酚
(dinoterb)



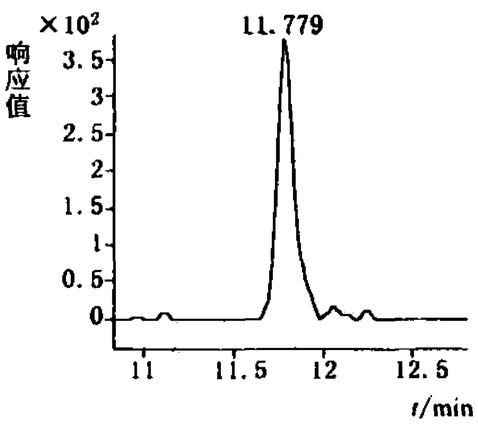
465. 氯吡脲
(forchlorfenuron)



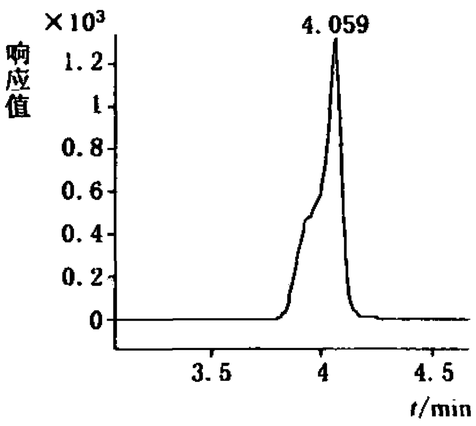
466. 咯菌腈
(fludioxonil)



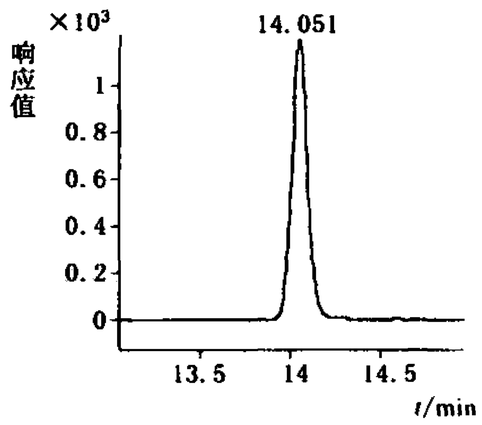
467. 氟草烟
(fluroxypyr)



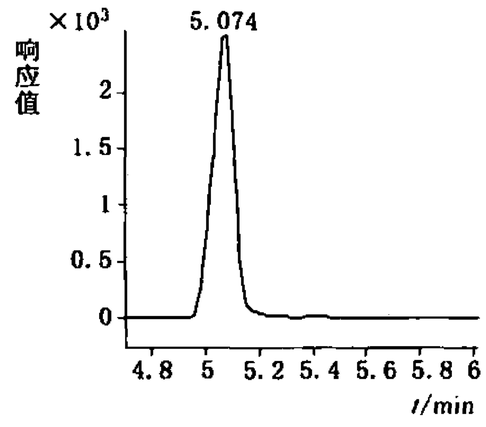
468. 杀螨醇
(chlorfenethol)



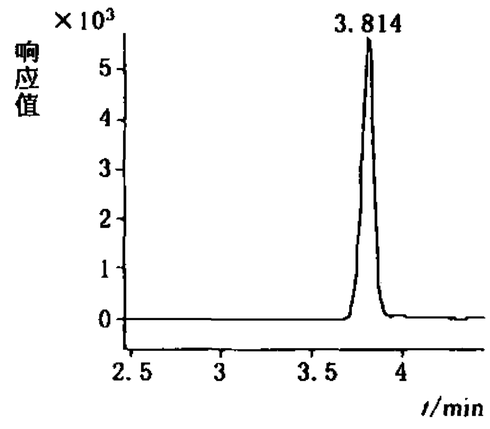
469. 溴苯腈
(bromoxynil)



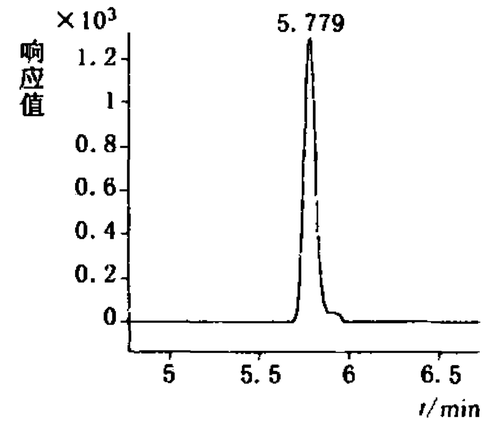
470. 灭幼脲
(chlorobenzuron)



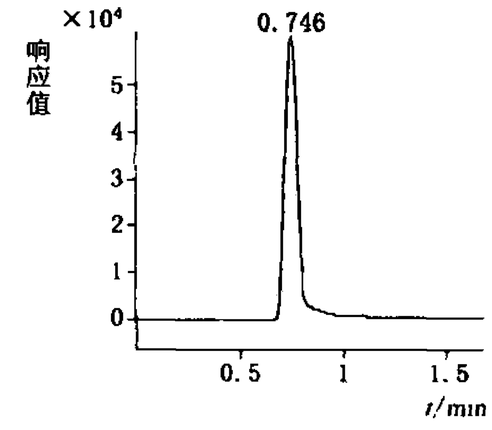
471. 氯霉素
(chloramphenicolum)



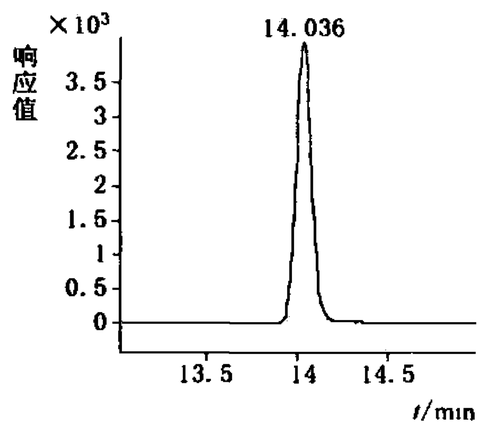
472. 禾草灭
(alloxydim-sodium)



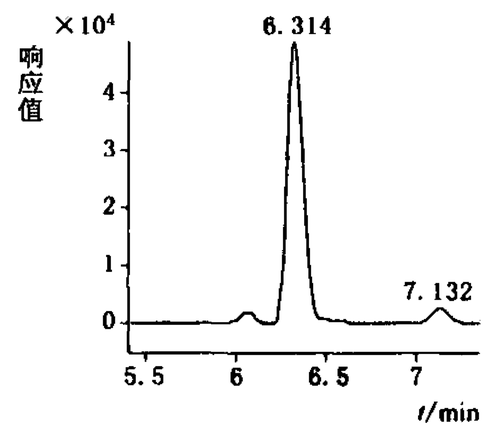
473. 乙酰磺胺对硝基苯
(sulfanitran)



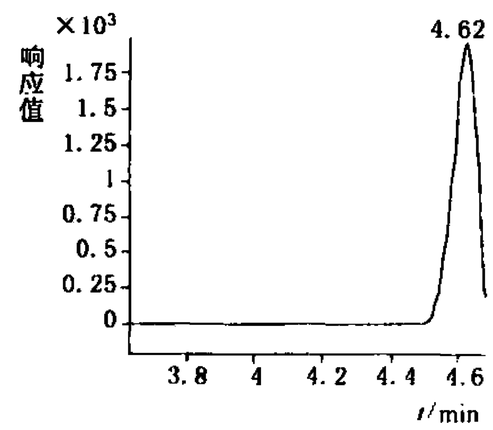
474. 甲基磺草酮
(mesotrion)



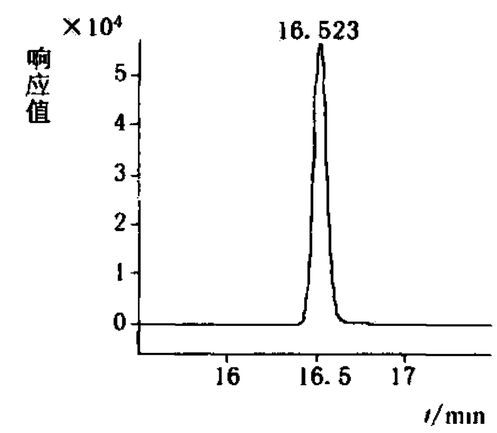
475. 安磺灵
(oryzalin)



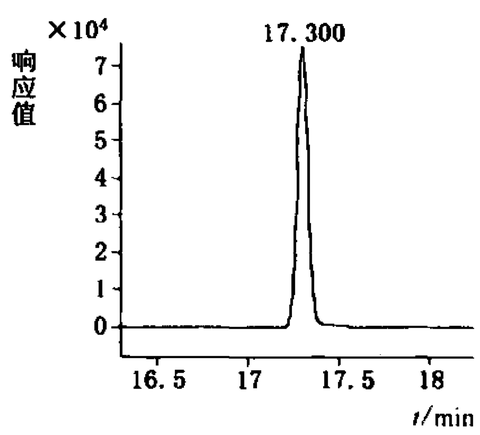
476. 三氟羧草醚
(acifluorfen)



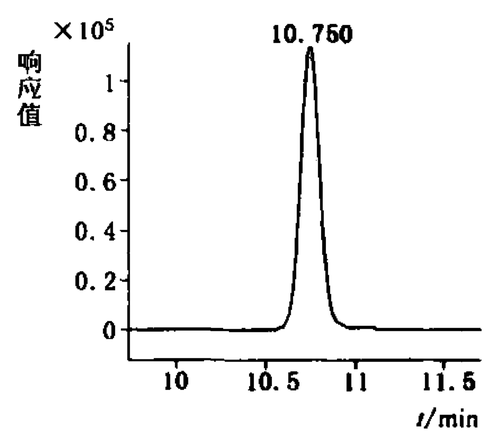
477 碘苯腈
(ioxynil)



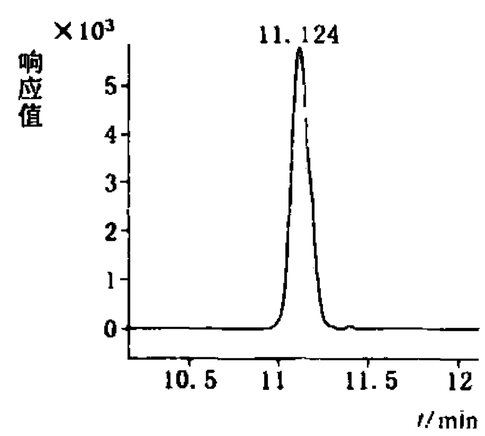
478. 噁唑菌酮
(famoxadone)



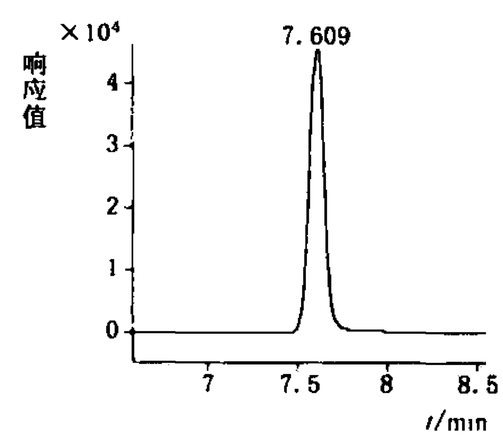
479. 吡氟酰草胺
(diflufenican)



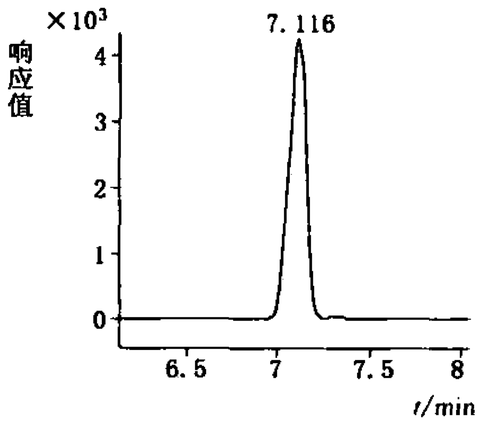
480. 乙虫清
(ethiprole)



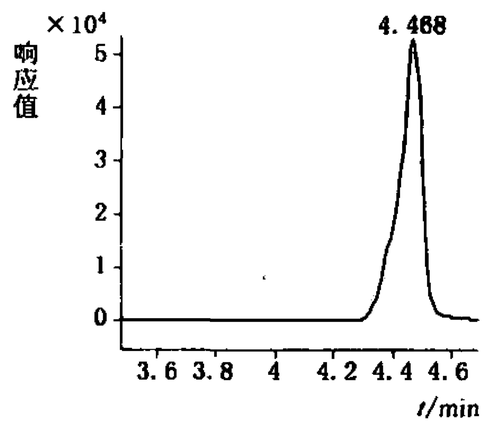
481.. 磺菌胺
(flusulfamide)



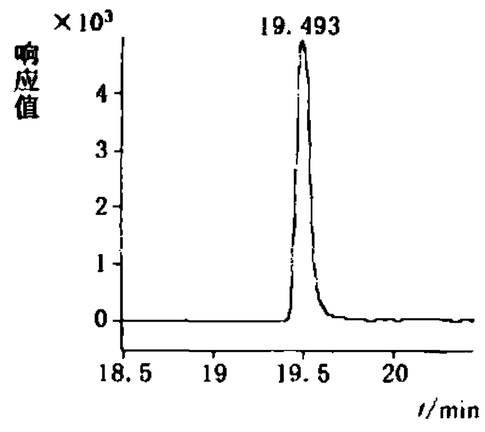
482. 环丙嘧磺隆
(cyclosulfamuron)



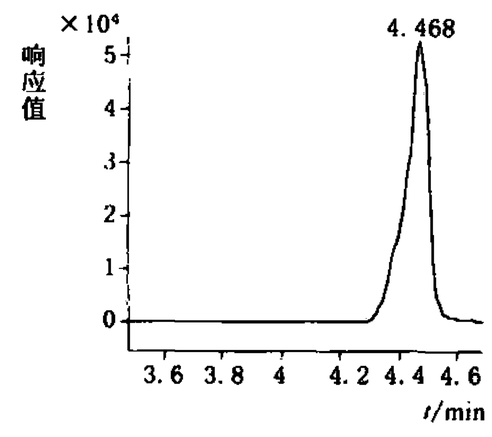
483. 氟磺胺草醚
(fomesafen)



484. 碘甲磺隆钠
(iodosulfuron-methyl sodium)



485. 克来范
(kelevan)



486. 甲基碘磺隆
(iodosulfuron-methyl)

附 录 D
（资料性附录）
486 种农药及相关化学品精密度数据表

486 种农药及相关化学品精密度数据表见表 D.1。

表 D.1 486 种农药及相关化学品精密度数据表

序号	名 称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
A 组							
1	苯胺灵	40.00	12.39	10.12	200.00	54.59	135.00
2	异丙威	4.00	1.02	1.78	20.00	3.48	15.40
3	3,4,5-混杀威	0.20	0.05	0.13	1.00	0.18	0.32
4	环莠隆	0.40	0.07	0.27	2.00	0.16	1.14
5	甲萘威	2.00	0.85	0.98	10.00	0.67	4.52
6	毒草胺	0.40	0.10	0.19	2.00	0.37	1.42
7	吡咪唑	0.20	0.07	0.06	1.00	0.16	0.82
8	西草净	0.40	0.12	0.17	2.00	0.20	1.43
9	绿谷隆	8.00	1.19	4.23	40.00	5.12	37.13
10	速灭磷	8.00	2.95	3.18	40.00	4.48	31.51
11	叠氮津	0.40	0.13	0.24	2.00	1.29	1.94
12	密草通	0.20	0.04	0.08	1.00	0.14	0.61
13	嘧菌环胺	0.40	0.12	0.23	2.00	0.35	2.00
14	炔草隆	1.20	0.39	0.73	6.00	1.73	1.78
15	双酰草胺	1.60	0.46	1.02	8.00	1.33	2.90
16	抗蚜威	0.40	0.40	0.21	2.00	0.22	1.43
17	异噁草松	1.20	0.11	0.61	6.00	0.75	5.28
18	氰草津	1.20	0.12	0.48	6.00	0.50	3.85
19	扑草净	0.20	0.06	0.06	1.00	0.11	0.80
20	对氧磷	2.00	0.47	0.81	10.00	1.57	6.99
21	4,4′-二氯二苯甲酮	1.20	0.22	0.18	6.00	0.26	1.07
22	噻虫啉	0.80	0.23	0.59	4.00	0.34	3.01
23	吡虫啉	40.00	2.91	20.82	200.00	10.60	107.61
24	磺噻隆	8.00	1.21	4.14	40.00	2.30	19.31
25	丁嗪草酮	0.24	0.07	0.09	1.20	0.22	1.08
26	燕麦敌	24.00	6.28	5.45	120.00	20.16	117.24
27	乙草胺	40.00	3.78	16.38	200.00	15.00	147.74
28	氟草敏	0.80	0.19	0.13	4.00	0.83	1.31

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
29	盖草津	4.00	0.61	1.65	20.00	1.78	14.04
30	二甲吩草胺	0.40	0.06	0.20	2.00	0.25	1.31
31	特草灵	0.40	0.22	0.20	2.00	0.29	0.83
32	戊菌唑	0.24	0.09	0.05	1.20	0.33	1.17
33	腈菌唑	1.20	0.31	0.46	6.00	0.72	5.00
34	咪唑乙烟酸	0.56	0.16	0.28	2.80	0.37	2.76
35	多效唑	0.20	0.07	0.08	1.00	0.20	0.86
36	倍硫磷亚砜	0.40	0.09	0.05	2.00	0.52	1.21
37	三唑醇	4.00	2.73	1.94	20.00	2.26	14.82
38	仲丁灵	0.40			2.00	0.34	0.93
39	螺噁茂胺	0.08	0.02	0.02	0.40	0.04	0.34
40	甲基立枯磷	0.80	0.14	0.13	4.00	0.31	0.57
41	甜菜胺	2.00	0.65	0.74	10.00	0.41	6.62
42	杀扑磷	6.00	3.17	2.55	30.00	4.02	17.84
43	烯丙菊酯	12.00	3.27	3.97	60.00	7.33	32.46
44	二嗪磷	0.24	0.08	0.09	1.20	0.10	1.18
45	敌瘟磷	0.80	0.22	0.31	4.00	0.25	3.72
46	丙草胺	0.80	0.17	0.42	4.00	0.17	3.15
47	氟硅唑	0.40	0.10	0.20	2.00	0.31	1.63
48	丙森锌	0.80	0.10	0.16	4.00	0.11	1.25
49	麦锈灵	0.40	0.09	0.05	2.00	0.22	0.37
50	氟酰胺	0.40	0.17	0.09	2.00	0.56	1.26
51	伐灭磷	2.40	0.39	0.79	12.00	1.72	8.51
52	苯霜灵	0.24	0.09	0.12	1.20	0.23	0.76
53	苄氯三唑醇	0.24	0.07	0.07	1.20	0.27	1.09
54	乙环唑	0.40	0.14	0.24	2.00	0.30	1.75
55	氯苯嘧啶醇	2.40	0.34	1.31	12.00	1.05	10.11
56	胺菊酯	2.40	0.46	1.18	12.00	2.10	8.12
57	解草酯	0.24	0.05	0.10	1.20	0.00	0.00
58	联苯三唑醇	4.00	1.17	1.58	20.00	4.83	10.12
59	快捕净	32.00	3.42	11.82	160.00	7.34	127.63
60	野麦畏	40.00	6.96	12.30	200.00	22.95	235.92
61	益棉磷	40.00	4.58	24.17	200.00	28.71	118.43
62	杀铃脲	2.40	0.18	0.82	12.00	1.35	5.95

表 D 1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
63	异噁氟草	40.00	4.86	17.81	200.00	13.39	125.72
64	莎稗磷	0.40	0.07	0.17	2.00	0.34	1.62
65	甲基立枯磷	120.00	19.29	57.07	600.00	85.59	340.47
66	喹禾灵	1.20	0.47	0.99	6.00	1.18	4.06
67	氟吡甲禾灵	0.12	0.04	0.07	0.60	0.22	0.35
68	吡氟禾草灵	0.40	0.10	0.10	2.00	0.34	1.14
69	乙基溴硫磷	10.00	10.55	5.23	50.00	10.22	14.12
70	地散磷	10.00	2.96	3.37	50.00	8.29	12.32
71	醚苯磺隆	1 200.00	129.32	167.94	6 000.00	903.93	388.61
72	溴苯烯磷	1.60	0.32	0.84	8.00	1.40	6.12
73	嘧菌酯	0.20	0.06	0.02	1.00	0.15	0.23
74	茚虫威	2.40	0.45	1.23	12.00	0.12	1.02
B组							
75	敌草素	1 200.00	762.44	471.35	6 000.00		
76	甲磺乐灵	4.00	2.25	3.95	20.00	4.05	12.34
77	非草隆	4.00	0.62	0.92	20.00	3.80	12.30
78	鼠立死	1.20	0.43	1.22	6.00	0.79	2.77
79	乙酰甲胺磷	8.00	2.12	2.90	40.00	8.50	13.67
80	禾草敌	2.00	0.35	0.53	10.00	10.81	237.97
81	多菌灵	0.20	0.03	0.03	1.00	0.16	0.50
82	枯莠隆	0.80	0.17	0.14	4.00	0.69	0.53
83	残杀威	4.00	0.67	0.88	20.00	6.35	9.50
84	异唑隆	0.40	0.07	0.10	2.00	0.22	0.30
85	绿麦隆	0.40	0.19	0.11	2.00	0.23	0.64
86	久效威	120.00	97.05	50.95	600.00	195.98	165.41
87	氯炔灵	80.00	58.77	21.12	400.00	107.59	149.58
88	噁虫威	0.80	0.32	0.25	4.00	0.71	0.37
89	扑灭津	0.40	0.13	0.09	2.00	0.30	0.16
90	特丁津	0.20	0.04	0.07	1.00	0.17	0.21
91	敌草隆	0.20	0.12	0.14	1.00	0.21	0.41
92	氯甲硫磷	1 200.00	105.30	92.58	6 000.00	441.65	1 105.04
93	噻虫胺	24.00	1.81	3.13	120.00	9.10	21.41
94	拿草特	1.20	0.29	0.33	6.00	0.78	1.64
95	二甲草胺	0.40	0.05	0.06	2.00	0.11	0.48

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
96	溴谷隆	1.60	0.24	0.27	8.00	1.06	1.41
97	甲拌磷	32.00	3.93	6.97	160.00	24.27	305.94
98	苯草醚	4.00	1.03	1.35	20.00	1.89	3.17
99	地胺磷	0.40	0.10	0.06	2.00	0.35	0.27
100	脱苯甲基亚胺唑	2.00	0.62	0.72	10.00	2.65	3.84
101	草不隆	1.20	0.25	0.80	6.00	0.73	1.76
102	精甲霜灵	0.20	0.08	0.04	1.00	0.44	0.18
103	发硫磷	0.80	0.23	0.17	4.00	0.43	1.24
104	乙氧呋草黄	320.00	93.85	86.39	1 600.00	359.39	66.38
105	异稻瘟净	2.00	0.39	0.67	10.00	1.32	2.33
106	特普	4.00	0.17	0.49	20.00	2.55	6.98
107	环丙唑醇	0.32	0.10	0.08	1.60	0.28	0.39
108	甲基乙拌磷	3 600.00	537.87	1 729.40	18 000.00		
109	育畜磷	32.00	4.61	6.94	160.00	10.92	23.75
110	乙嘧硫磷	0.40	0.14	0.18	2.00	0.60	0.87
111	杀鼠醚	40.00	2.06	6.61	200.00	5.77	23.56
112	畜吡磷	24.00	2.52	6.30	120.00	14.26	20.41
113	磷胺	1.20	0.13	0.11	6.00	2.46	3.86
114	甜菜宁	2.00	0.45	0.45	10.00	1.62	1.97
115	环酰菌胺	0.40	0.10	0.06	2.00	0.20	0.38
116	粉唑醇	1.20	0.27	0.21	6.00	0.91	1.68
117	呋霜灵	0.40	0.07	0.10	2.00	0.15	0.36
118	生物丙烯菊酯	4.00	1.98	2.88	20.00	6.55	4.10
119	苯腈磷	2.00	1.20	0.98	10.00	0.88	3.26
120	甲基嘧啶磷	0.20	0.03	0.08	1.00	0.18	0.32
121	噻嗪酮	0.20	0.06	0.06	1.00	0.25	0.29
122	乙拌磷砜	1.20	0.43	0.30	6.00	0.92	0.41
123	喹螨醚	0.20	0.05	0.05	1.00	0.09	0.17
124	三唑磷	0.20	0.03	0.02	1.00	0.12	0.19
125	脱叶磷	0.40	0.08	0.08	2.00	0.34	0.27
126	环酯草醚	0.20	0.04	0.03	1.00	0.31	0.18
127	叶菌唑	0.40	0.05	0.06	2.00	0.44	0.17
128	吡丙醚	0.20	0.04	0.02	1.00	0.26	0.15
129	噻草酮	4.00	0.28	0.59	20.00	2.69	10.75

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
130	异噁酰草胺	0.20	0.03	0.07	1.00	0.19	0.11
131	呋草酮	0.40	0.03	0.03	2.00	0.15	0.50
132	氟乐灵	200.00	100.65	224.67	1 000.00	303.42	546.83
133	麦草氟甲酯	2.00	0.52	0.71	10.00	1.56	2.34
134	生物苄呋菊酯	4.00	1.28	0.59	20.00	1.75	3.13
135	丙环唑	0.40	0.10	0.11	2.00	0.35	0.30
136	甲基毒死蜱	4.00			20.00	2.73	11.66
137	嘧啶磷	0.12	0.01	0.05	0.60	0.04	0.30
138	烯草酮	4.00	0.45	0.81	20.00	2.08	6.07
139	麦草氟异丙酯	0.40	0.06	0.09	2.00	0.32	0.41
140	杀虫畏	1.20	0.36	0.48	6.00	1.41	1.91
141	炔螨特	8.00	3.64	2.28	40.00	7.94	5.14
142	糠菌唑	0.80	0.34	0.23	4.00	0.88	1.13
143	氟吡酰草胺	0.40	0.14	0.13	2.00	0.25	0.45
144	氟噻乙草酯	1.20	0.61	0.25	6.00	0.60	0.71
145	肟菌酯	0.20	0.05	0.06	1.00	0.49	0.16
146	氯嘧磺隆	4.00	1.46	1.45	20.00	4.61	4.92
C组							
147	甲硫威亚砜	2.40	0.88	1.53	12.00	2.29	4.11
148	乙氧喹啉	24.00	6.04	9.15	120.00	49.02	144.16
149	避蚊胺	0.20	0.06	0.08	1.00	0.27	0.82
150	灭草隆	8.00	2.81	2.93	40.00	6.79	15.84
151	嘧霉胺	0.80	0.17	0.15	4.00	0.55	1.28
152	甲呋酰胺	0.40	0.11	0.15	2.00	0.20	0.62
153	灭藻醌	4.00	0.39	1.56	20.00	1.84	5.49
154	仲丁威	0.80	0.18	0.24	4.00	0.75	1.94
155	敌稗	1.60	0.61	0.57	8.00	1.36	3.02
156	萎锈灵	0.40	0.12	0.15	2.00	0.21	0.37
157	啶虫脒	1.20	0.13	0.56	6.00	0.83	1.40
158	嘧菌胺	0.40	0.09	0.17	2.00	0.25	0.59
159	扑灭通	0.20	0.06	0.06	1.00	0.13	0.37
160	甲硫威	0.80	0.32	0.29	4.00	0.34	1.72
161	甲氧隆	0.80	0.19	0.32	4.00	0.63	0.84
162	乐果	1.60	0.40	0.39	8.00	0.61	0.76

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
163	呋菌胺	8.00	0.45	1.97	40.00	2.81	17.77
164	氟草隆	6.00	0.48	1.72	30.00	1.53	3.71
165	百治磷	4.00	2.45	0.54	20.00	9.56	12.10
166	庚酰草胺	0.40	0.15	0.17	2.00	0.53	0.59
167	双苯酰草胺	0.20	0.02	0.07	1.00	0.07	0.15
168	灭线磷	0.80	0.25	0.15	4.00	0.45	1.38
169	地虫硫磷	1.20	0.21	0.35	6.00	1.06	2.83
170	醚菊酯	40.00	13.10	15.53	200.00	91.32	131.87
171	环嗪酮	0.40	0.71	0.26	2.00	1.25	2.20
172	异戊乙净	0.20	0.03	0.05	1.00	0.30	0.41
173	敌百虫	12.00	4.87	4.50	60.00	23.11	42.36
174	内吸磷	1.60	0.73	0.67	8.00	2.14	5.05
175	解草嗪	2.00	0.92	1.47	10.00	1.50	5.05
176	除草定	4.00	0.48	0.54	20.00	1.91	3.36
177	甲拌磷亚砜	200.00	36.02	68.31	1 000.00	373.64	474.25
178	溴莠敏	6.00	0.83	2.11	30.00	4.43	3.75
179	氧化萎锈灵	0.80	0.17	0.42	4.00	0.46	0.96
180	灭锈胺	0.40	0.04	0.15	2.00	0.24	0.60
181	吡嘧磺隆	0.40	0.09	0.09	2.00	0.21	0.75
182	倍硫磷	2.00	0.35	0.76	10.00	4.81	4.81
183	甲霜灵	0.40	0.03	0.14	2.00	0.15	0.60
184	呋酰胺	1.20	0.50	0.87	6.00	0.54	2.27
185	十二环吗啉	0.20	0.08	0.07	1.00	0.17	0.38
186	咪草酸	1.20	0.14	0.50	6.00	0.90	1.92
187	乙拌磷亚砜	0.80	0.28	0.17	4.00	0.91	1.08
188	稻瘟灵	0.60	0.19	0.13	3.00	0.23	0.39
189	抑霉唑	1.20	0.18	0.41	6.00	1.12	2.11
190	辛硫磷	8.00	1.93	3.02	40.00	7.13	20.97
191	喹硫磷	0.80	0.11	0.29	4.00	0.50	1.46
192	灭菌磷	40.00	4.27	14.09	200.00	18.43	62.16
193	苯氧威	0.80	0.29	0.32	4.00	0.82	1.00
194	嘧啶磷	0.20	0.05	0.11	1.00	0.10	0.33
195	丰索磷	0.80	0.15	0.39	4.00	0.90	1.45
196	氟咯草酮	2.40	0.89	1.52	12.00	2.37	5.21

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
197	丁草胺	4.00	0.60	1.68	20.00	2.19	6.63
198	亚胺菌	40.00	19.88	21.65	200.00	43.54	42.25
199	灭菌唑	0.80	0.23	0.42	4.00	0.22	1.75
200	苯线磷亚砜	0.80	0.15	0.18	4.00	0.45	1.23
201	噻吩草胺	1.60	0.51	0.45	8.00	1.65	2.19
202	杀螟硫磷	32.00	56.91	37.18	160.00	50.10	124.70
203	杀草吡啶	0.40	0.08	0.16	2.00	0.24	0.65
204	氟环唑	40.00	2.91	16.43	200.00	23.95	85.03
205	氯辛硫磷	40.00	4.79	10.99	200.00	29.72	50.98
206	苯线磷砜	0.40	0.09	0.15	2.00	0.39	0.84
207	腈苯唑	0.20	0.22	0.08	1.00	0.32	0.32
208	碘硫磷	12.00	5.29	3.56	60.00	30.56	23.53
209	苯醚菊酯	40.00	17.58	6.36	200.00	26.61	62.14
210	哌草磷	0.20	0.07	0.09	1.00	0.17	0.29
211	增效醚	0.40	0.09	0.14	2.00	0.53	0.60
212	乙氧氟草醚	8.00	3.90	1.50	40.00	26.72	27.94
213	蝇毒磷	0.40	0.10	0.13	2.00	0.46	0.74
214	咯菌腈	0.40	0.25	0.35	2.00	1.02	2.03
215	伏杀硫磷	8.00	1.03	1.23	40.00	4.37	8.75
216	甲氧虫酰肼	8.00	1.31	3.59	40.00	5.66	11.42
217	咪鲜胺	0.80	0.69	0.58	4.00	0.76	1.34
218	丙硫特普	0.80	0.11	0.26	4.00	0.30	1.17
219	乙硫磷	1.60	0.17	0.57	8.00	1.12	1.47
220	敌草净	0.20	0.04	0.03	1.00	0.10	0.24
221	噻吩磺隆	2.00	0.35	0.83	10.00	0.57	1.58
222	乙氧磺隆	16.00	0.78	6.65	80.00	4.28	14.94
223	氟硫草定	1.20	0.23	0.51	6.00	0.97	1.86
224	螺螨酯	4.00	1.13	1.18	20.00	4.32	4.89
225	唑螨酯	0.40	0.09	0.24	2.00	0.36	1.18
226	胺氟草酯	2.00	0.89	0.83	10.00	1.86	0.94
227	双硫磷	4.00	0.50	1.66	20.00	2.84	31.87
228	丁脒酰胺	0.80	0.10	0.43	4.00	0.59	1.70
D组							
229	异丙甲草胺	0.20	0.06	0.06	1.00	0.41	0.82

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
230	二丙烯草胺	40.00	4.50	31.29	200.00	12.62	90.29
231	炔苯酰草胺	0.80	0.19	0.24	4.00	0.52	1.78
232	三环唑	0.40	0.04	0.08	2.00	0.48	1.10
233	噻菌灵	1.20	0.26	1.00	6.00	0.89	4.99
234	苯嗪草酮	0.40	0.11	0.23	2.00	0.43	1.22
235	异丙隆	0.40	0.06	0.08	2.00	0.06	0.16
236	莠去通	0.20	0.04	0.08	1.00	0.18	0.58
237	克草敌	40.00	3.30	19.50	200.00	1.70	93.25
238	嗪草酮	1.20	0.57	0.80	6.00	1.47	3.10
239	DMST	2.40	0.68	1.12	12.00	2.03	5.17
240	环草敌	2.00	0.33	0.79	10.00	1.05	4.76
241	莠去津	0.12	0.04	0.07	0.60	0.08	0.29
242	丁草敌	240.00	87.13	125.97	1 200.00	50.96	1 448.70
243	丙硫磷	40.00	19.87	40.90	200.00	71.16	170.19
244	氯草敏	4.00	0.37	1.78	20.00	1.44	7.18
245	菜草畏	24.00	7.12	12.53	120.00	11.08	50.08
246	乙嘧酚	0.80	0.40	0.25	4.00	0.48	0.79
247	特丁通	0.20	0.06	0.04	1.00	0.15	0.17
248	环丙津	0.12	0.01	0.05	0.60	0.11	0.26
249	莠灭净	0.40	0.11	0.11	2.00	0.33	1.00
250	丁噻隆	0.20	0.05	0.05	1.00	0.07	0.17
251	草达津	0.40	0.14	0.20	2.00	0.15	0.63
252	另丁津	0.20	0.03	0.06	1.00	0.11	0.56
253	畜虫避	16.00	0.92	4.24	80.00	10.56	35.99
254	牧草胺	0.20	0.08	0.04	1.00	0.11	0.27
255	久效威砜	40.00	12.49	21.63	200.00		
256	杀螟丹	40.00	3.07	13.84	200.00	20.34	66.26
257	甲醚菊酯	800.00	479.33	321.66	4 000.00	2 119.81	2 327.47
258	特丁净	0.16	0.02	0.04	0.80	0.07	0.37
259	咪唑嗪	28.00	5.40	15.00	140.00	15.14	57.80
260	虫线磷	4.00	1.35	2.62	20.00	1.58	11.94
261	溴苯磷	4.00	18.62	27.63	20.00	125.76	48.87
262	庚烯磷	4.00	0.26	1.70	20.00	1.53	9.64
263	苄草丹	0.20	0.08	0.10	1.00	0.19	0.53

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
264	异丙净	0.12	0.04	0.06	0.60	0.14	0.32
265	禾草丹	0.40	0.19	0.09	2.00	0.40	0.57
266	三异丁基磷酸盐	0.20	0.08	0.17	1.00	0.18	0.40
267	三正丁基磷酸盐	0.20	0.02	0.12	1.00	0.09	0.54
268	乙霉威	1.60	0.64	0.61	8.00	0.88	4.13
269	甲草胺	8.00	1.53	5.13	40.00	4.46	20.78
270	硫线磷	0.80	0.15	0.38	4.00	0.43	1.86
271	吡唑草胺	0.40	0.10	0.20	2.00	0.17	0.71
272	胺丙畏	32.00	25.28	19.92	160.00	24.87	24.30
273	特丁硫磷	72.00	35.60	44.75	360.00	46.68	123.28
274	硅氟唑	0.40	0.17	0.07	2.00	0.26	0.24
275	三唑酮	2.00	0.69	0.52	10.00	1.29	1.61
276	甲拌磷砜	1.60	0.34	0.43	8.00	1.80	4.12
277	三苯基磷酸盐	0.20	0.04	0.03	1.00	0.14	0.15
278	苯噻酰草胺	0.40	0.09	0.16	2.00	0.32	1.05
279	氧环唑	0.20	0.03	0.06	1.00	0.11	0.48
280	苯线磷	0.16	0.05	0.11	0.80	0.12	0.32
281	苯锈定	0.16	0.02	0.02	0.80	0.04	0.25
282	戊唑醇	0.20	0.04	0.06	1.00	0.14	0.54
283	异丙乐灵	4.00	1.30	2.17	20.00	6.29	10.09
284	氟苯嘧啶醇	2.00	0.43	0.71	10.00	0.85	1.93
285	乙嘧酚磺酸酯	0.40	0.07	0.26	2.00	0.39	0.97
286	保棉磷	40.00	17.07	16.65	200.00	67.50	85.54
287	丁基嘧啶磷	40.00	5.84	5.86	200.00	8.31	28.05
288	稻丰散	4.00	1.25	3.69	20.00	2.31	9.74
289	治螟磷	0.80	0.49	0.44	4.00	0.66	2.42
290	硫丙磷	1.60	0.15	0.37	8.00	0.57	1.17
291	苯硫磷	2.00	0.74	1.21	10.00	1.58	3.62
292	甲基吡噁磷	0.40	0.08	0.14	2.00	0.35	0.64
293	烯唑醇	0.40	0.09	0.10	2.00	0.17	0.92
294	氟喹唑	0.20	0.18	0.25	1.00	0.23	0.26
295	稀禾啶	1.20	0.23	0.23	6.00	1.12	1.31
296	戊菌隆	0.20	0.04	0.05	1.00	0.07	0.12
297	灭蚜磷	4.00	1.41	0.92	20.00	2.34	4.60
298	三甲苯草酮	2.00	0.29	0.45	10.00	1.49	7.27

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
299	马拉氧磷	0.40	0.08	0.17	2.00	0.21	3.34
300	稗草丹	0.40	0.08	0.13	2.00	0.42	1.16
301	哒嗪硫磷	0.80	0.18	0.20	4.00	0.42	0.57
302	脱甲基抗蚜威	0.20	0.10	0.08	1.00	0.24	0.52
303	硫双威	4.00	0.32	0.90	20.00	3.68	26.24
304	吡唑硫磷	1.20	0.45	0.40	6.00	0.66	1.39
305	啶氧菌酯	40.00	3.16	19.64	200.00	38.04	102.58
306	四氟醚唑	0.40	0.13	0.10	2.00	0.20	0.67
307	吡唑解草酯	1.50	0.31	0.29	7.50	0.79	1.41
308	丙溴磷	0.80	0.09	0.15	4.00	0.40	0.56
309	吡唑醚菊酯	0.80	0.21	0.37	4.00	1.51	1.88
310	烯酰吗啉	0.40	0.07	0.09	2.00	0.36	0.55
311	噻嗯菊酯	0.80	0.24	0.34	4.00	0.32	1.16
312	噻唑烟酸	1.20	0.42	0.32	6.00	1.53	2.09
313	苯醚甲环唑	0.20	0.04	0.05	1.00	0.08	0.27
314	毒死蜱	1.20	0.42	0.40	6.00	0.74	1.62
315	吡草醚	2.40	0.25	0.90	12.00	1.25	7.31
316	甲基对硫磷	40.00	62.97	32.53	200.00	209.84	182.50
E组							
317	4-氨基吡啶	0.87	0.55	1.59	3.47	0.85	4.29
318	灭多威	9.56	0.47	5.71	38.24	0.63	23.45
319	咯喹酮	3.48	0.10	4.13	13.92	0.24	2.27
320	麦穗灵	1.89	0.13	0.96	7.56	0.31	2.85
321	丁脒酰胺	1.70	0.05	0.80	6.79	0.35	2.56
322	丁酮威	1.57	0.20	2.70	6.28	0.29	2.69
323	杀虫脒	1.33	0.19	1.44	5.33	0.80	2.84
324	霜脲氰	55.60	9.54	28.80	222.40	14.66	291.84
325	灭草敌	0.26	0.15	0.30	1.03	0.23	0.78
326	氯硫酰草胺	8.82	2.85	8.03	35.28	36.29	79.80
327	灭害威	16.42	1.58	5.51	65.68	11.84	20.65
328	甲菌定	0.12	0.01	0.07	0.50	0.01	0.17
329	氧乐果	9.65	1.36	5.73	38.60	11.09	16.18
330	乙氧呋啉	3.52	0.30	6.06	14.08	2.19	5.49
331	敌敌畏	0.55	0.03	0.39	2.19	0.15	1.47

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
332	涕灭威砜	21.40	1.23	17.43	85.60	4.14	55.52
333	二氧威	3.36	0.18	2.87	13.44	0.78	4.36
334	苄腺嘌呤	70.80	1.82	30.60	283.20	6.45	105.97
335	甲基内吸磷	5.30	1.17	5.96	21.20	2.03	2.48
336	杀虫丹亚砜	224.00	6.71	204.12	896.00	22.88	515.91
337	杀螟腈	10.12	3.75	15.14	40.48	26.26	504.66
338	甲基乙拌磷	578.00	204.43	961.02	2 312.00	1 147.44	1 475.85
339	灭菌丹	138.60	29.47	330.50	554.40	79.51	992.44
340	呱草丹	3 780.00	599.72	6 076.12	15 120.00	1 541.17	14 720.99
341	苯锈定	0.18	0.03	0.25	0.73	0.12	0.39
342	赛硫磷	658.00	414.54	372.65	2 632.00	751.24	1 968.89
343	甲咪唑烟酸	5.90	0.25	2.76	23.60	0.64	6.27
344	甲基对氧磷	0.47	0.06	0.16	1.90	0.09	1.09
345	4-十二烷基-2,6-二甲基吗啉	3.16	15.29	91.29	12.64	1.13	13.93
346	乙烯菌核利	2.54	4.06	7.68	10.16	2.78	11.42
347	烯效唑	2.40	0.15	0.60	9.60	0.78	2.19
348	啶斑肟	0.27	0.04	0.34	1.06	0.13	0.69
349	氯硫磷	133.60	37.76	51.31	534.40	46.09	367.09
350	异氯磷	0.24	0.03	0.09	0.95	0.07	0.64
351	四螨嗪	0.76	0.33	1.76	3.06	0.56	2.08
352	氟草敏	0.26	0.01	0.18	1.03	0.04	0.41
353	野麦畏	46.20	4.06	11.31	184.80	8.61	306.88
354	苯氧喹啉	153.40	6.65	21.39	613.60	20.54	267.51
355	倍硫磷砜	17.46	2.63	66.18	69.84	2.67	38.29
356	氟咯草酮	1.29	0.20	0.23	5.16	0.37	2.33
357	酞酸苯甲基丁酯	632.00	590.75	5 345.79	2 528.00	556.17	802.75
358	氯唑磷	0.18	0.01	0.08	0.71	0.08	0.28
359	除线磷	30.20	8.53	12.45	120.80	17.21	78.88
360	蚜灭多砜	476.00	93.24	293.22	1 904.00	1 008.12	433.02
361	特丁硫磷砜	88.60	10.04	63.84	354.40	20.31	216.47
362	敌乐胺	1.79	0.61	2.13	7.17	0.85	1.93
363	氰霜唑	4.50	1.16	11.03	18.00	20.70	264.62
364	毒壤磷	66.80	11.51	64.38	267.20	9.44	220.43

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
365	苄呋菊酯	0.30	0.07	0.22	1.20	0.15	0.99
366	啶酰菌胺	4.76	0.18	2.10	19.04	0.40	11.01
367	甲磺乐灵	34.40	3.18	5.22	137.60	2.85	78.74
368	甲氰菊酯	245.00	36.50	497.90	980.00	71.31	175.67
369	噻螨酮	23.60	2.54	31.85	94.40	3.11	50.15
370	双氟磺草胺	17.40	28.59	79.99	69.60	56.66	91.23
371	苯螨特	19.66	5.41	19.23	78.64	22.44	61.66
372	新燕灵	308.00	17.56	123.44	1 232.00	12.26	534.92
373	嘧螨醚	14.00	1.93	11.31	56.00	13.69	99.45
374	呋线威	1.92	0.20	1.60	7.67	0.90	3.65
375	反式氯菊酯	4.80	1.64	7.97	19.20	2.72	27.83
376	醚菊酯	2 280.00	755.33	3 194.36	9 120.00	386.60	1 032.43
377	苄草唑	0.33	0.04	1.00	1.30	0.07	2.99
378	嘧唑螨	7.78	1.61	15.21	31.12	18.23	103.27
379	Z-氯氰菊酯	0.68	0.25	0.59	2.71	0.78	2.50
380	氟吡乙禾灵	2.50	0.32	0.97	10.00	0.34	6.57
381	S-氰戊菊酯	416.00	399.29	1 110.01	1 664.00	2 742.20	2 269.75
382	乙羧氟草醚	5.00	0.58	8.20	20.00	6.51	10.70
F组							
383	丙烯酰胺	17.80	1.97	3.45	71.20	11.80	24.50
384	叔丁基胺	38.95	6.49	44.92	155.80	21.41	61.32
385	噁霉灵	224.14	40.28	81.19	896.54	201.02	337.24
386	邻苯二甲酰亚胺	43.00	4.85	9.64	172.00	27.82	21.66
387	甲氟磷	68.20	14.13	53.57	272.80	14.88	217.06
388	速灭威	25.40	57.97	97.61	101.60	124.31	306.96
389	二苯胺	0.41	0.38	1.26	1.66	0.05	1.24
390	萘乙酸基乙酰亚胺	0.81	0.08	0.31	3.24	0.37	0.35
391	乙基-阿特拉津	0.62	0.09	0.31	2.48	0.23	0.29
392	2,6-二氯苯甲酰胺	4.50	0.57	0.40	18.00	0.62	1.75
393	涕灭威	261.00	102.51	80.14	1 044.00	450.81	394.04
394	邻苯二甲酸二甲酯	13.20	4.54	6.96	52.80	38.33	41.22
395	杀虫脒	2.64	0.43	0.41	10.56	2.73	6.81
396	西玛通	1.10	0.09	0.34	4.42	0.23	0.40
397	呋虫胺	10.18	1.56	2.94	40.72	14.01	21.33

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
398	克草敌	3.40	1.06	1.60	13.60	2.94	1.69
399	活化酯	3.08	0.53	1.78	12.32	2.22	2.09
400	蔬果磷	13.84	4.94	5.04	55.36	18.21	36.88
401	杀线威	548.06	151.54	296.40	2 192.24	1 823.12	3 577.21
402	赛苯隆	0.29	0.07	0.17	1.18	1.18	0.57
403	甲基苯噻隆	0.07	0.01	0.04	0.29	0.05	0.04
404	丁酮砜威	26.60	9.42	17.99	106.40	17.82	45.25
405	砜吸磷	3.92	1.03	1.04	15.68	3.08	34.97
406	久效威砜	24.08	6.62	28.28	96.32	7.86	18.97
407	硫环磷	0.49	0.14	0.11	1.94	0.24	0.38
408	硫赶内吸磷	80.00	55.75	76.06	320.00	131.62	244.55
409	氧倍硫磷	1.19	0.18	1.19	4.75	0.23	0.47
410	萘丙胺	1.27	0.10	0.34	5.10	0.57	0.80
411	杀螟硫磷	26.80	3.49	2.93	107.20	9.78	6.01
412	酞酸二丁酯	39.60	12.29	17.55	158.40	25.05	68.12
413	丙草胺	0.39	0.04	0.07	1.56	0.12	0.22
414	腐霉利	86.60	5.96	21.42	346.40	19.45	25.08
415	蚜灭磷	4.56	0.38	0.44	18.24	1.11	2.49
416	枯草隆	0.44	0.95	1.15	1.78	0.60	0.94
417	威菌磷	0.01	0.00	0.01	0.05	0.00	0.01
418	右旋炔丙菊酯	58.80	165.92	291.03	235.20	85.99	279.69
419	可灭隆	1.32	0.12	0.31	5.27	0.46	0.55
420	甲氧咪草烟	1.80	1.61	2.01	7.20	10.06	29.72
421	杀鼠灵	2.68	0.85	1.09	10.72	0.95	1.21
422	亚胺硫磷	17.72	1.53	3.19	70.88	10.17	7.90
423	皮蝇磷	13.13	7.18	7.21	52.52	6.62	21.34
424	酞酸二环己酯	0.68	0.07	0.54	2.71	0.46	0.30
425	环丙酰胺	5.20	1.11	5.48	20.80	4.79	26.37
426	吡螨胺	0.25	0.12	0.15	1.02	0.04	0.06
427	虫酰肼	27.80	29.72	33.76	111.20	47.11	75.65
428	虫螨磷	31.80	5.31	25.04	127.20	27.84	20.09
429	毒壤磷	157.00	33.04	76.57	628.00	70.03	247.13
430	吲哚酮草酯	14.58	1.91	16.57	58.32	5.14	25.48
431	鱼滕酮	2.32	0.33	1.87	9.28	1.84	0.74

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
432	亚胺唑	10.26	0.52	6.55	41.04	0.93	2.51
433	噁草酸	1.24	0.16	0.66	4.94	0.24	0.29
434	2,3,4,5-四氯苯胺	53.60	86.71	173.74	214.40	333.88	772.16
435	吡草酮	0.08	0.05	0.22	0.32	0.11	0.15
436	地乐酯	41.28	14.51	39.17	165.12	1.58	16.97
437	异丙草胺	0.80	0.25	0.35	3.20	0.10	1.50
438	氟硅菊酯	608.00	167.82	280.06	2 432.00	885.43	1 126.50
439	乙氧苯草胺	0.80	0.20	0.60	3.20	1.10	3.36
440	四唑酰草胺	12.40	7.35	22.28	49.60	4.12	4.88
441	五氯苯胺	3.74	0.68	1.06	14.98	2.54	2.26
442	苯醚氰菊酯	16.80	2.78	17.07	67.20	18.75	10.80
443	狄氏剂	161.60	297.34	218.61	646.40	524.52	731.97
444	乙螨唑	0.87	0.37	0.77	3.49	1.42	2.51
445	马拉氧磷	4.69	1.11	1.24	18.75	1.18	3.08
446	多果定	8.00	2.21	16.96	32.00	7.51	13.56
G 组							
447	茅草枯	230.74	133.20	181.57	922.96	214.77	853.84
448	四氟丙酸	22.98	23.42	41.16	91.92	7.11	63.54
449	2,6-二氟苯甲酸	1 704.08	629.75	1 905.79	6 816.32	4 642.23	7 618.29
450	三氯乙酸钠	281.58	79.98	281.74	1 126.32	1 110.35	2 334.96
451	2-苯基苯酚	169.88	27.78	100.50	679.52	72.38	235.8
452	3-苯基苯酚	4.00	0.65	2.37	16.01	1.71	5.56
453	二氯吡啶酸	280.00	215.33	232.73	1 120.00	265.12	1 075.07
454	4,6-二硝基邻甲酚	2.60	1.38	2.40	10.40	0.59	7.70
455	调果酸	11.40	3.29	6.06	45.60	0.53	41.65
456	氯硝胺	48.56	2.54	44.31	194.22	18.39	75.74
457	氯苯胺灵	15.77	3.99	8.97	63.07	6.72	28.10
458	2-甲-4-氯丙酸	4.90	0.64	2.11	19.58	0.68	20.89
459	特草定	0.88	0.41	0.98	3.51	1.04	1.31
460	麦草畏	1 265.92	273.25	674.14	5 063.68	1 189.81	5 001.08
461	二甲四氯丁酸	14.18	2.87	6.26	56.72	0.25	93.11
462	灭草松	1.03	1.02	1.96	4.13	0.65	5.68
463	地乐酚	0.40	0.13	0.43	1.58	0.65	1.08
464	草消酚	0.24	0.09	0.27	0.96	0.21	0.42

表 D.1（续）

序号	名　　称	含量/(μg/kg)	重复性限 r	再现性限 R	含量/(μg/kg)	重复性限 r	再现性限 R
465	氯吡脲	11.40	1.59	3.40	45.60	7.02	55.26
466	咯菌腈	62.16	23.60	48.68	248.64	56.10	86.75
467	氟草烟	192.06	13.53	57.80	768.24	5.28	516.01
468	杀螨醇	164.30	126.70	341.03	657.20	68.19	604.36
469	溴苯腈	1.80	1.26	2.13	7.20	2.13	9.54
470	灭幼脲	20.40	3.58	9.36	81.60	14.32	54.16
471	氯霉素	3.88	0.90	3.96	15.52	3.05	14.96
472	禾草灭	0.20	0.02	0.16	0.80	0.01	1.08
473	乙酰磺胺对硝基苯	3.04	0.85	3.73	12.16	2.46	9.70
474	甲基磺草酮	2 300.56	155.98	1 684.85	9 202.24	826.38	2 920.77
475	安磺灵	4.91	4.38	10.25	19.66	2.58	25.13
476	三氟羧草醚	118.00	20.43	109.82	472.00	26.01	448.46
477	碘苯腈	0.62	1.01	1.13	2.46	0.54	2.41
478	噁唑菌酮	45.29	6.99	16.77	181.15	17.74	62.48
479	吡氟酰草胺	28.27	1.63	7.46	113.09	11.42	38.31
480	乙虫清	39.85	6.60	47.22	159.41	15.92	148.45
481	磺菌胺	0.41	0.10	0.41	1.66	0.30	1.07
482	环丙嘧磺隆	343.68	68.16	101.45	1 374.72	224.41	683.53
483	氟磺胺草醚	2.02	0.45	2.38	8.08	0.75	4.41
484	碘甲磺隆钠	21.20	3.05	10.86	84.80	4.48	120.03
485	克来范	9 642.82	1 212.70	3 066.89	38 571.28	4 322.93	21 636.89
486	甲基碘磺隆	66.60			266.40	14.06	377.08

附 录 E
（资料性附录）
486 种农药及相关化学品英文中文名称对照索引（按英文字母顺序）

486 种农药及相关化学品英文中文名称对照索引（按英文字母顺序）见表 E.1。

表 E.1 486 种农药及相关化学品英文中文名称对照索引（按英文字母顺序）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
1	1-naphthy acetamide	萘乙酸基乙酰亚胺	390	25	ametryn	阔草净	249
2	2,3,4,5-tetrachloro-aniline	2,3,4,5-四氯苯胺	434	26	amidithion	赛硫磷	342
				27	aminocarb	灭害威	327
3	2,6-dichlorobenzamide	2,6-二氯苯甲酰胺	392	28	anilofos	莎稗磷	64
4	2,6-difluorobenzoic acid	2,6-二氟苯甲酸	449	29	aspon	丙硫特普	218
				30	atratone	莠去通	236
5	2-phenylphenol	2-苯基苯酚	451	31	atrazine	莠去津	241
6	3,4,5-trimethacarb	3,4,5-混杀威	3	32	atrazine-desethyl	乙基-阿特拉津	391
7	3-phenylphenol	3-苯基苯酚	452	33	azaconazole	戊环唑	279
8	4,4′-dichlorobenzop-henone	4,4′-二氯二苯甲酮	21	34	azamethiphos	甲基吡嘧磷	292
				35	azinphos ethyl	益棉磷	61
9	4-aminopyridine	4-氨基吡啶	317	36	azinphos-methyl	保棉磷	286
10	6-chloro-4-hydroxy-3-phenyl-pyridazin	6-氯-4-羟基-3-苯基哒嗪	82	37	aziprotryne	叠氮津	11
				38	azoxystrobin	嘧菌酯	73
11	acephate	乙酰甲胺磷	79	39	benalyxyl	苯霜灵	52
12	acetamiprid	啶虫清	157	40	bendiocarb	噁虫威	88
13	acetochlor	乙草胺	27	41	benfuracarb-methyl	甲基丙硫克百威	313
14	acibenzolar-*s*-methyl	活化酯	399	42	benodanil	麦锈灵	49
15	acifluorfen	三氟羧草醚	476	43	benoxacor	解草酮	175
16	aclonifen	苯草醚	98	44	bensulide	地散磷	70
17	acrylamide	丙烯酰胺	383	45	bentazone	灭草松	462
18	alachlor	甲草胺	269	46	benzofenap	吡草酮	435
19	aldicarb	涕灭威	393	47	benzoximate	苯螨特	371
20	aldicarb sulfone	涕灭威砜	332	48	benzoylprop-ethyl	新燕灵	372
21	aldimorph	4-十二烷基-2,6-二甲基吗啉	345	49	benzyladenine	苄腺嘌呤	334
				50	bioallethrin	生物丙烯菊酯	118
22	allethrin	烯丙菊酯	43	51	bioresmethrin	生物苄呋菊酯	134
23	allidochlor	二丙烯草胺	230	52	bitertanol	联苯三唑醇	58
24	alloxydim-sodium	禾草灭	472	53	boscalid	啶酰菌胺	366

表 E.1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
54	bromacil	除草定	176	87	chlorphoxim	氯辛硫磷	205
55	bromfenvinfos	溴苯烯磷	72	88	chlorpropham	氯苯胺灵	457
56	bromophos-ethyl	乙基溴硫磷	69	89	chlorpyrifos	毒死蜱	136
57	bromoxynil	溴苯腈	469	90	chlorthiamid	氯硫酰草胺	326
58	brompyrazon	溴莠敏	178	91	chlorthion	氯硫磷	349
59	bromuconazole	糠菌唑	142	92	chlorthiophos	虫螨磷	428
60	bupirimate	乙嘧酚磺酸酯	285	93	cinidon-ethyl	吲哚酮草酯	430
61	buprofezin	噻嗪酮	121	94	cinosulfuron	醚黄隆	314
62	butachlor	丁草胺	197	95	clethodim	烯草酮	138
63	butafenacil	氟丙嘧草酯	228	96	clofentezine	四螨嗪	351
64	butocarboxim	丁酮威	322	97	clomazone	异噁草松	17
65	butoxycarboxim	丁酮砜威	404	98	cloprop	调果酸	455
66	butralin	仲丁灵	38	99	clopyralld	二氯吡啶酸	453
67	buturon	播土隆	14	100	cloquintocet mexyl	解草酯	57
68	butylate	丁草敌	242	101	clothianidin	噻虫胺	93
69	cadusafos	硫线磷	270	102	coumaphos	蝇毒磷	213
70	carbaryl	甲萘威	5	103	coumatetralyl	杀鼠醚	111
71	carbendazim	多菌灵	81	104	crimidine	鼠立克	78
72	carbetamide	双酰草胺	15	105	crufomate	育畜磷	109
73	carbofuran	克百威	156	106	cumyluron	可灭隆	419
74	carpropamid	环丙酰胺	425	107	cyanazine	氰草津	18
75	cartap hydrochloride	杀螟丹	256	108	cyanofenphos	苯腈磷	119
76	chloramphenicolum	氯霉素	471	109	cyanohos	杀螟腈	337
77	chlorbufam	氯草灵	87	110	cyazofamid	氰霜唑	363
78	chlordimeform	杀虫脒	323	111	cycloate	环草敌	240
79	chlordimeform hydrochloride	杀虫脒盐酸盐	395	112	cyclosulfamuron	环丙嘧磺隆	482
				113	cycloxydim	噻草酮	129
80	chlorfenethol	杀螨醇	468	114	cycluron	环莠隆	4
81	chloridazon	氯草敏	244	115	cymoxanil	霜脲氰	324
82	chlorimuron ethyl	氯嘧磺隆	146	116	cyphenothrin	苯醚氰菊酯	442
83	chlormephos	氯甲硫磷	92	117	cyprazine	环丙津	248
84	chlorobenzuron	灭幼脲	470	118	cyproconazole	环丙唑醇	107
85	chlorotoluron	绿麦隆	85	119	cyprodinil	嘧菌磺胺	13
86	chloroxuron	枯草隆	416	120	cythioate	赛灭磷	112

表 E.1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
121	dalapon	茅草枯	447	154	diniconazole	烯唑醇	293
122	dazomet	棉隆	75	155	dinitramine	敌乐胺	362
123	DEF	脱叶磷	125	156	dinoseb	地乐酚	463
124	demeton(*o*+*s*)	内吸磷	174	157	dinoseb acetate	地乐酯	436
125	demeton-*s*	硫赶内吸磷	408	158	dinotefuran	呋虫胺	397
126	demeton-*s*-methyl	甲基内吸磷	335	159	dinoterb	草消酚	464
127	demeton-*s*-methyl sulfoxide	砜吸磷	405	160	dioxabenzofos	蔬果磷	400
				161	dioxacarb	二氧威	333
128	desmedipham	甜菜胺	41	162	diphenamid	双苯酰草胺	167
129	diafenthiuron	杀螨隆	220	163	diphenylamin	二苯胺	389
130	dialifos	毒壤磷	429	164	dipropetryn	杀草净	264
131	diallate	燕麦敌	26	165	disulfoton	乙拌磷	181
132	diazinon	二嗪磷	44	166	disulfoton sulfone	乙拌磷砜	122
133	dibutyl succinate	畜虫避	253	167	disulfoton-sulfoxide	乙拌磷亚砜	187
134	dicamba	麦草畏	460	168	ditalimfos	灭菌磷	192
135	dicapthon	异氯磷	350	169	dithiopyr	氟硫草定	223
136	dichlofenthion	除线磷	359	170	diuron	敌草隆	91
137	dichlorvos	敌敌畏	331	171	DMST	—	239
138	diclobutrazole	苄氯三唑醇	53	172	DNOC	4,6-二硝基邻甲酚	454
139	dicloran	氯硝胺	456	173	dodemorph	吗菌灵	185
140	dicrotophos	百治磷	165	174	dodine	多果定	446
141	dieldrin	狄氏剂	443	175	edifenphos	敌瘟磷	45
142	diethofencarb	乙霉威	268	176	EPN	苯硫磷	291
143	diethyltoluamide	避蚊胺	149	177	epoxiconazole	氟环唑	204
144	diflufenican	吡氟酰草胺	479	178	EPTC	茵草敌	148
145	dimefox	甲氟磷	387	179	esfenvalerate	S-氰戊菊酯	381
146	dimepiperate	呱草丹	340	180	etaconazole	乙环唑	54
147	dimethachloro	二甲草胺	95	181	ethidimuron	磺噻隆	24
148	dimethametryn	阔草净	172	182	ethiofencarb	乙硫苯威	246
149	dimethenamid	二甲酚草胺	30	183	ethiofencarb-sulfoxide	杀虫丹亚砜	336
150	dimethirimol	甲菌定	328	184	ethion	乙硫磷	219
151	dimethoate	乐果	162	185	ethiprole	乙虫清	480
152	dimethomorph	烯酰吗啉	310	186	ethofume sate	乙氧呋草黄	104
153	dimethyl phthalate	酞酸二甲酯	394	187	ethoprophos	灭线磷	168

表 E.1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
188	ethoxyquin	乙氧呋喃	330	222	florasulam	双氟磺草胺	370
189	ethoxysulfuron	乙氧嘧磺隆	222	223	fluazifop butyl	吡氟禾草灵	68
190	etobenzanid	乙氧苯草胺	439	224	flubenzimine	嘧唑螨	378
191	etofenprox	醚菊酯	376	225	fluchloralin	氯乙氟灵	137
192	etoxazole	乙螨唑	444	226	fludioxonil	咯菌腈	466
193	etridiazol	土菌灵	170	227	flufenacet	氟噻草胺	214
194	etrimfos	乙嘧硫磷	110	228	flumetsulam	唑嘧磺草胺	294
195	famoxadone	噁唑菌酮	478	229	flumiclorac-pentyl	胺氟草酯	226
196	famphur	氨磺磷	51	230	fluometuron	伏草隆	164
197	fenamiphos	苯线磷	280	231	fluorochloridone	氯咯草酮	196
198	fenamiphos sulfone	苯线磷砜	206	232	fluoroglycofen-ethyl	乙羧氟草醚	382
199	fenamiphos sulfoxide	苯线磷亚砜	200	233	flupropanate	四氟丙酸	448
200	fenarimol	氯苯嘧啶醇	55	234	fluridone	杀草吡啶	203
201	fenazaquin	喹螨醚	123	235	flurochloridone	氟咯草酮	356
202	fenbuconazole	腈苯唑	207	236	fluroxypyr	氟草烟	467
203	fenfuram	黑穗胺	152	237	flurtamone	呋草酮	131
204	fenhexamid	环酰菌胺	115	238	flusilazole	氟硅唑	47
205	fenitrothion	杀螟硫磷	411	239	flusulfamide	磺菌胺	481
206	fenobucarb	仲丁威	154	240	fluthiacet methyl	氟噻乙草酯	144
207	fenoxanil	氰菌胺	202	241	flutolanil	氟酰胺	50
208	fenoxycarb	苯氧威	193	242	flutriafol	粉唑醇	116
209	fenpropathrin	甲氰菊酯	368	243	folpet	灭菌丹	339
210	fenpropidin	苯锈定	341	244	fomesafen	氟磺胺草醚	483
211	fenpropimorph	丁苯吗啉	281	245	fonofos	地虫硫磷	169
212	fenpyroximate	唑螨酯	225	246	forchlorfenuron	氯吡脲	465
213	fensulfothin	丰索磷	195	247	fuberidazole	麦穗灵	320
214	fenthion	倍硫磷	182	248	furalaxyl	抑菌丙胺酯	117
215	fenthion oxon	氧倍硫磷	409	249	furathiocarb	呋线威	374
216	fenthion sulfone	倍硫磷砜	355	250	haloxyfop-2-ethoxy-ethyl	氟吡乙禾灵	380
217	fenthion sulfoxide	倍硫磷亚砜	36				
218	fentrazamide	四唑酰草胺	440	251	haloxyfop-methyl	精氟吡甲禾灵	67
219	fenuron	非草隆	77	252	heptanophos	庚虫磷	262
220	flamprop isopropyl	麦草氟异丙酯	139	253	hexazinone	环嗪酮	171
221	flamprop methyl	甲基麦草氟异丙酯	133	254	hexythiazox	噻螨酮	369

表 E.1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
255	hymexazol	噁霉灵	385	286	malathion	马拉硫磷	299
256	imazalil	抑霉唑	189	287	MCPB	二甲四氯丁酸	461
257	imazamethabenz-methyl	甲基咪草酯	186	288	mecarbam	灭蚜磷	297
				289	mecoprop	2-甲-4-氯丙酸	458
258	imazamox	甲氧咪草烟	420	290	mefenacet	苯噻酰草胺	278
259	imazapic	甲咪唑烟酸	343	291	mefenoxam	精甲霜灵	102
260	imazethapyr	咪唑乙烟酸	34	292	mefenpyr-diethyl	吡唑解草酯	307
261	imibenconazole	亚胺唑	432	293	mepanipyrim	嘧菌胺	158
262	imibenzonazole-des-benzyl	脱苯甲基亚胺唑	100	294	mephosfolan	地安磷	99
				295	mepiquat chloride	甲呱金翁	229
263	imidacloprid	吡虫啉	23	296	mepronil	灭锈胺	180
264	indoxacarb	茚虫威	74	297	mesotrion	甲基磺草酮	474
265	iodosulfuron-methyl	甲基碘磺隆	486	298	metalaxyl	甲霜灵	183
266	iodosulfuron-methyl sodium	碘甲磺隆钠	484	299	metamitron	苯嗪草酮	234
				300	metazachlor	吡唑草胺	271
267	ioxynil	碘苯腈	477	301	metconazole	叶菌唑	127
268	iprobenfos	异稻瘟净	105	302	methabenzthiazuron	甲基苯噻隆	403
269	iprovalicarb	丙森锌	48	303	methacrifos	虫螨畏	257
270	isazofos	氯唑磷	358	304	methamidophos	甲胺磷	147
271	isocarbamid	丁脒酰胺	321	305	methfuroxam	呋菌胺	163
272	isofenphos	异柳磷	208	306	methidathion	杀扑磷	42
273	isomethiozin	丁嗪草酮	25	307	methiocarb	甲硫威	160
274	isoprocarb	异丙威	2	308	methobromuron	溴谷隆	96
275	isopropalin	异丙乐灵	283	309	methomyl	灭多威	318
276	isoprothiolane	稻瘟灵	188	310	methoprotryne	盖草津	29
277	isoproturon	异丙隆	235	311	methoxyfenozide	甲氧虫酰肼	216
278	isouron	异唑隆	84	312	metolachlor	丙草胺	413
279	isoxaben	异噁酰草胺	130	313	metolcarb	速灭威	388
280	isoxaflutole	异噁氟草	63	314	metosulam	磺草胺唑	316
281	kadethrin	噻嗯菊酯	311	315	metoxuron	甲氧隆	161
282	kelevan	克来范	485	316	metribuzin	赛克津	238
283	kresoxim-methyl	亚胺菌	198	317	mevinphos	速灭磷	10
284	linuron	利谷隆	261	318	molinate	禾草敌	80
285	malaoxon	马拉氧磷	445	319	monalide	庚酰草胺	166

表 E.1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
320	monolinuron	绿谷隆	9	354	phoxim	辛硫磷	190
321	monuron	灭草隆	150	355	phthalic acid, biscyclohexyl ester	酞酸二环己酯	424
322	myclobutanil	腈菌唑	33				
323	napropamide	萘丙胺	410	356	phthalic acid, dibutyl ester	酞酸二丁酯	412
324	neburon	草不隆	101				
325	nicotine	烟碱	76	357	phthalic acid, benzyl butyl ester	酞酸苯甲基丁酯	357
326	nitenpyram	烯啶虫胺	28				
327	nitralin	甲磺乐灵	367	358	phthalimide	邻苯二甲酰亚胺	386
328	norflurazon	氟草敏	352	359	picolinafen	氟吡酰草胺	143
329	nuarimol	氟苯嘧啶醇	284	360	picoxystrobin	啶氧菌酯	305
330	oesmetryn	敌草净	237	361	piperonyl butoxide	增效醚	211
331	ofurace	甲呋酰胺	184	362	piperophos	哌草磷	210
332	omethoate	氧乐果	329	363	pirimicarb	抗蚜威	16
333	oryzalin	安磺灵	475	364	pirimiphos methyl	甲基嘧啶磷	120
334	oxamyl	杀线威	401	365	pirimiphos-ethyl	嘧啶磷	302
335	oxycarboxin	氧化萎锈灵	179	366	prallethrin	右旋炔丙菊酯	418
336	oxyflurofen	乙氧氟草醚	212	367	pretilachlor	丙草胺	46
337	paclobutrazol	多效唑	35	368	prochloraz	咪鲜胺	217
338	paraoxon methyl	对氧磷	20	369	procymidone	腐霉利	414
339	paraoxon-ethyl	甲基对氧磷	344	370	profenefos	丙溴磷	308
340	pebulate	克草敌	398	371	prometon	扑灭通	159
341	penconazole	戊菌唑	32	372	prometryne	扑草净	19
342	pencycuron	纹枯脲	296	373	pronamide	拿草特	94
343	pentachloroaniline	五氯苯胺	441	374	propachlor	毒草胺	6
344	phenmedipham	甜菜宁	114	375	propamocarb	霜霉威	231
345	phenothrin	苯醚菊酯	209	376	propanil	敌稗	155
346	phenthoate	稻丰散	288	377	propaquiafop	噁草酸	433
347	phorate	甲拌磷	97	378	propargite	炔螨特	141
348	phorate sulfone	甲拌磷砜	276	379	propazine	扑灭津	89
349	phorate sulfoxide	甲拌磷亚砜	177	380	propetamphos	胺丙畏	272
350	phosalone	伏杀硫磷	215	381	propham	苯胺灵	1
351	phosfolan	硫环磷	407	382	propiconazole	丙环唑	135
352	phosmet	亚胺硫磷	422	383	propisochlor	异丙草胺	437
353	phosphamidon	磷胺	113	384	propoxur	残杀威	83

表 E 1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
385	prosulfocarb	苄草丹	263	419	sulfanitran	乙酰磺胺对硝基苯	473
386	prothoate	发硫磷	103	420	sulfotep	治螟磷	289
387	pymetrozin	吡蚜酮	243	421	sulprofos	硫丙磷	290
388	pyraclofos	吡唑硫磷	304	422	tebuconazole	戊唑醇	282
389	pyraclostrobin	百克敏	309	423	tebufenozide	虫酰肼	427
390	pyrazosulfuron-ethyl	吡嘧磺隆	315	424	tebufenpyrad	吡螨胺	426
391	pyrazoxyfen	苄草唑	377	425	tebupirimfos	丁基嘧啶磷	287
392	pyributicarb	稗草畏	300	426	tebutam	牧草胺	254
393	pyridaphenthion	哒嗪硫磷	301	427	tebuthiuron	木草隆	250
394	pyrifenox	啶斑肟	348	428	temephos	双硫磷	227
395	pyriftalid	环酯草醚	126	429	TEPP	特普	106
396	pyrimethanil	嘧霉胺	151	430	tepraloxydim	吡喃草酮	59
397	pyrimidifen	呋草唑	373	431	terbacil	特草定	459
398	pyrimitate	嘧啶磷	194	432	terbufos	特丁硫磷	273
399	pyriproxyfen	蚊蝇醚	128	433	terbufos sulfone	特丁硫磷砜	361
400	pyroquilon	咯喹酮	319	434	terbumeton	特丁通	247
401	quinalphos	喹硫磷	191	435	terbuthylazine	特丁津	90
402	quinoclamine	灭藻醌	153	436	terbutryn	特丁净	258
403	quinoxyphen	苯氧喹啉	354	437	terrbucarb	特草灵	31
404	quizalofop-ethyl	喹禾灵	66	438	*tert*-butylamine	叔丁基胺	384
405	rabenzazole	吡咪唑	7	439	tetrachlorvinphos	杀虫畏	140
406	resmethrin-2	苄呋菊酯	365	440	tetraconazole	四氟醚唑	306
407	ronnel	皮蝇磷	423	441	tetramethirn	胺菊酯	56
408	rotenone	鱼藤酮	431	442	thenylchlor	噻吩草胺	201
409	sebutylazine	另丁津	252	443	thiabendazole	噻菌灵	233
410	secbumeton	密草通	12	444	thiacloprid	噻虫啉	22
411	sethoxydim	稀禾啶	295	445	thiamethoxam	噻虫嗪	108
412	silafluofen	氟硅菊酯	438	446	thiazopyr	噻唑烟酸	312
413	simeconazole	硅氟唑	274	447	thidiazuron pestanal	赛苯隆	402
414	simeton	西玛通	396	448	thifensulfuron-methyl	噻吩磺隆	221
415	simetryn	西草净	8	449	thiobencarb	禾草丹	265
416	spirodiclofen	螺螨酯	224	450	thiodicarb	硫双威	303
417	spiroxamine	螺噁茂胺	39	451	thiofanox	久效威	86
418	sulfallate	菜草畏	245	452	thiofanox sulfone	久效威砜	406

表 E.1（续）

序号	英文名称	中文名称	附录 A 中序号	序号	英文名称	中文名称	附录 A 中序号
453	thiofanox-sulfoxide	久效威亚砜	255	470	trichlorphon	敌百虫	173
454	thiometon	甲基乙拌磷	338	471	tricyclazole	三环唑	232
455	thionazin	虫线磷	260	472	tridemorph	十三吗啉	277
456	thiophanat ethyl	硫菌灵	65	473	trietazine	草达津	251
457	thiophanate methyl	甲基硫菌灵	60	474	trifloxystrobin	肟菌酯	145
458	tolclofos methyl	甲基立枯磷	40	475	triflumuron	杀铃脲	62
459	tralkoxydim	苯草酮	298	476	trifluralin	氟乐灵	132
460	*trans*-permethin	反式氯菊酯	375	477	tri-*iso*-butyl phosphate	三异丁基磷酸盐	266
461	triadimefon	三唑酮	275				
462	triadimenol	三唑醇	37	478	tri-*n*-butyl phosphate	三正丁基磷酸盐	267
463	triallate	野麦畏	353	479	triticonazole	戊叉菌唑	199
464	triamiphos	威菌磷	417	480	uniconazole	烯效唑	347
465	triasulfuron	醚苯磺隆	71	481	vamidothion	蚜灭磷	415
466	triazophos	三唑磷	124	482	vamidothion sulfone	蚜灭多砜	360
467	triazoxide	咪唑嗪	259	483	vernolate	灭草敌	325
468	trichloroacetic acid sodium salt	三氯乙酸钠	450	484	vinclozolin	乙烯菌核利	346
				485	warfarin	杀鼠灵	421
469	trichloronat	毒壤磷	364	486	*zeta* cypermethrin	*Z*-氯氰菊酯	379