

中华人民共和国国家标准

GB/T 23214—2008

饮用水中 450 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 450 pesticides and related
chemicals residues in drinking water—
LC-MS-MS method

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前 言

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、河北大学。

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饮用水中 450 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

本标准规定了饮用水中 450 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。

本标准适用于饮用水中 450 种农药及相关化学品的定性鉴别,也适用于其中 427 种农药及相关化学品的定量测定。

本标准定量测定的 427 种农药及相关化学品方法检出限为 0.010 $\mu\text{g/L}$ ~0.065 mg/L (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/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

试样用 1%乙酸乙腈溶液提取, Sep-Pak Vac 柱¹⁾净化,乙腈+甲苯(3+1)洗脱农药及相关化学品,液相色谱-串联质谱仪检测,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 丙酮:色谱纯。
- 4.3 异辛烷:色谱纯。
- 4.4 甲苯:优级纯。
- 4.5 正己烷:色谱纯。
- 4.6 甲醇:色谱纯。
- 4.7 乙酸:优级纯。
- 4.8 甲酸:优级纯。
- 4.9 乙酸胺:优级纯。

1) Sep-Pak Vac 柱是 Waters 公司产品的商品名称,给出这一信息是为了方便本标准的使用者,并不是表示对该产品的认可。如果其他等效产品具有相同的效果,则可使用这些等效产品。

- 4.10 无水乙酸钠:分析纯。
- 4.11 微孔过滤膜(尼龙):13 mm×0.2 μm,13 mm×0.2 μm。
- 4.12 Waters Sep-Pak Vac(6 mL,1 g)氨基固相萃取柱或相当者。
- 4.13 无水硫酸钠,无水硫酸镁:分析纯。用前在 650 °C 灼烧 4 h,贮于干燥器中,冷却后备用。
- 4.14 0.1%甲酸溶液(体积分数)。
- 4.15 5 mmol/L 乙酸铵溶液:称取 0.375 g 乙酸铵加水稀释至 1 000 mL。
- 4.16 乙腈+甲苯(3+1,体积比)。
- 4.17 1%乙酸乙腈(体积分数)。
- 4.18 乙腈+水(3+2,体积比)。
- 4.19 农药及相关化学品标准物质:纯度≥95%。
- 4.20 农药及相关化学品标准溶液

4.20.1 标准储备溶液

分别称取 5 mg~10 mg(精确至 0.1 mg)农药及相关化学品各标准物质分别于 10 mL 容量瓶中,根据标准物的溶解度选甲醇、甲苯、丙酮、乙腈或异辛烷溶解并定容至刻度(溶剂选择参见附录 A)。标准储备溶液避光 4 °C 保存,可使用一年。

4.20.2 混合标准溶液

按照农药及相关化学品的保留时间,将 450 种农药及相关化学品分成 A、B、C、D、E、F、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 450 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 4 °C 保存,可使用一个月。

4.20.3 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样品空白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、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。
- 5.2 分析天平:感量 0.1 mg 和 0.01 g。
- 5.3 鸡心瓶:200 mL。
- 5.4 移液器:1 mL,10 mL。
- 5.5 样品瓶:2 mL,带聚四氟乙烯旋盖。
- 5.6 具塞离心管:100 mL。
- 5.7 氮气吹干仪。
- 5.8 旋涡混合器。
- 5.9 低速离心机:4 200 r/min。
- 5.10 旋转蒸发仪。

6 试样制备与保存

6.1 试样的制备

将取得的全部原始样品倒入洁净的聚四氟乙烯样桶内,密封,作为试样,标明标记。

6.2 试样的保存

将试样置于冷藏状态下保存。

7 测定步骤

7.1 提取

移取 25 mL 试样(精确至 0.1 mL)于 100 mL 具塞离心管中,加入 40 mL 1% 乙酸乙腈溶液,在旋涡混合器上混合 2 min。向具塞离心管中加入 4 g 无水乙酸钠,再振荡 1 min,再向离心管中加入 15 g 无水硫酸镁,振荡 5 min,4 200 r/min 离心 5 min,准确移取 20 mL 上清液至鸡心瓶中,在 40 °C 水浴中旋转浓缩至约 2 mL 待净化。

7.2 净化

在 Sep-Pak Vac 柱中加入约 2 cm 高无水硫酸钠,并将柱子放入下接鸡心瓶的固定架上。加样前先用 5 mL 乙腈+甲苯(3+1)预洗柱,当液面到达硫酸钠的顶部时,迅速将样品提取液转移至净化柱上,并更换新鸡心瓶接收。在净化柱上加上 50 mL 贮液器,用 25 mL 乙腈+甲苯(3+1)洗脱农药及相关化学品,合并于鸡心瓶中,并在 40 °C 水浴中旋转浓缩至约 0.5 mL,于 35 °C 下氮气吹干,1 mL 乙腈+水(3+2)定容,经 0.2 μm 微孔滤膜过滤后供液相色谱-串联质谱分析。

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仪器条件

- a) 色谱柱:ZORBAX SB-C₁₈, 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

时间/min	流速/(μL/min)	流动相 A(0.1%甲酸水)/%	流动相 B(乙腈)/%
0.00	400	99.0	1.0
3.00	400	70.0	30.0
6.00	400	60.0	40.0
9.00	400	60.0	40.0
15.00	400	40.0	60.0
19.00	400	1.0	99.0
23.00	400	1.0	99.0
23.01	400	99.0	1.0

- c) 柱温:40 °C;
- 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 °C;
- 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仪器条件

- a) 色谱柱:ZORBAX SB-C₁₈, 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

总时间/min	流速/($\mu\text{L}/\text{min}$)	流动相 A(5 mmol 乙酸铵水)/%	流动相 B(乙腈)/%
0.00	400	99.0	1.0
3.00	400	70.0	30.0
6.00	400	60.0	40.0
9.00	400	60.0	40.0
15.00	400	40.0	60.0
19.00	400	1.0	99.0
23.00	400	1.0	99.0
23.01	400	99.0	1.0

- c) 柱温:40 $^{\circ}\text{C}$;
- 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 $^{\circ}\text{C}$;
- 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 $\pm 20\%$ 偏差;相对丰度 $>20\% \sim 50\%$,允许 $\pm 25\%$ 偏差;相对丰度 $>10\% \sim 20\%$,允许 $\pm 30\%$ 偏差;相对丰度 $\leq 10\%$,允许 $\pm 50\%$ 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,定量用标准溶液应采用基质混合标准工作溶液绘制标准曲线。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。450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。

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:

$$X_i = c_i \times \frac{V_1}{V_2} \times \frac{1\ 000}{1\ 000} \dots\dots\dots(1)$$

式中:

X_i ——试样中被测组分残留量,单位为毫克每升(mg/L);

c_i ——从标准曲线上得到的被测组分溶液浓度,单位为微克每毫升($\mu\text{g}/\text{mL}$);

V_1 ——样品溶液定容体积,单位为毫升(mL);

V_2 ——样品溶液所代表试样的体积,单位为毫升(mL)。

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)

450 种农药及相关化学品中、英文名称、方法检出限、
分组、溶剂选择和混合标准溶液浓度

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

表 A.1 450 种农药及相关化学品中、英文名称、方法检出限、
分组、溶剂选择和混合标准溶液浓度

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
A 组					
1	苯胺灵	propham	11.00	甲苯	11.00
2	异丙威	isoprocarb	0.23	甲醇	0.23
3	3,4,5-混杀威	3,4,5-trimethacarb	0.03	甲醇	0.03
4	环莠隆	cycluron	0.02	甲醇	0.02
5	甲萘威	carbaryl	1.03	甲醇	1.03
6	毒草胺	propachlor	0.03	甲醇	0.03
7	吡咪唑	rabenzazole	0.13	甲醇	0.13
8	西草净	simetryn	0.01	甲醇	0.01
9	绿谷隆	monolinuron	0.36	甲醇	0.36
10	速灭磷	mevinphos	0.16	甲苯	0.16
11	叠氮津	aziprotryne	0.14	甲醇	0.14
12	密草通	secbumeton	0.01	甲醇	0.01
13	嘧菌磺胺	cyprodinil	0.07	甲醇	0.07
14	播土隆	buturon	0.90	甲醇	0.90
15	双酰草胺	carbetamide	0.36	甲醇	0.36
16	抗蚜威	pirimicarb	0.02	甲醇	0.02
17	异噁草松	clomazone	0.04	甲醇	0.04
18	氰草津	cyanazine	0.02	甲醇	0.02
19	扑草净	prometryne	0.02	甲醇	0.02
20	甲基对氧磷	paraoxon methyl	0.08	甲醇	0.08
21	4,4'-二氯二苯甲酮	4,4'-dichlorobenzophenone	1.36	甲醇	1.36
22	噻虫啉	thiacloprid	0.04	甲醇	0.04
23	吡虫啉	imidacloprid	2.20	甲醇	2.20
24	磺噻隆	ethidimuron	0.15	甲醇	0.15
25	丁噻草酮	isomethiozin	0.11	甲醇	0.11
26	燕麦敌	diallate	8.92	甲醇	8.92

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
27	乙草胺	acetochlor	4.74	甲醇	4.74
28	烯啶虫胺	nitenpyram	1.71	甲醇	1.71
29	盖草津	methoprotrotryne	0.02	甲醇	0.02
30	二甲酚草胺	dimethenamid	0.43	甲醇	0.43
31	特草灵	terrbutcarb	0.21	甲醇	0.21
32	戊菌唑	penconazole	0.20	甲醇	0.20
33	腈菌唑	myclobutanil	0.10	甲醇	0.10
34	咪唑乙烟酸	imazethapyr	0.11	甲醇	0.11
35	多效唑	paclobutrazol	0.06	甲醇	0.06
36	倍硫磷亚砷	fenthion sulfoxide	0.03	甲醇	0.03
37	三唑醇	triadimenol	1.06	甲醇	1.06
38	仲丁灵	butralin	0.19	甲醇	0.19
39	螺噁茂胺	spiroxamine	0.01	甲醇	0.01
40	甲基立枯磷	tolclofos methyl	6.66	甲醇	6.66
41	甜菜胺	desmedipham	0.40	甲醇	0.40
42	杀扑磷	methidathion	1.07	甲醇	1.07
43	烯丙菊酯	allethrin	6.04	甲醇	6.04
44	二嗪磷	diazinon	0.07	甲苯	0.07
45	敌瘟磷	edifenphos	0.08	甲醇	0.08
46	丙草胺	pretilachlor	0.03	甲醇	0.03
47	氟硅唑	flusilazole	0.06	甲醇	0.06
48	丙森锌	iprovalicarb	0.23	甲醇	0.23
49	麦锈灵	benodanil	0.35	甲醇	0.35
50	氟酰胺	flutolanil	0.12	甲醇	0.12
51	氮磺磷	famphur	0.36	甲醇	0.36
52	苯霜灵	benalxyl	0.12	甲醇	0.12
53	苯氯三唑醇	diclobutrazole	0.05	甲醇	0.05
54	乙环唑	etaconazole	0.18	甲醇	0.18
55	氟苯嘧啶醇	fenarimol	0.06	甲醇	0.06
56	胺菊酯	tetramethirn	0.18	甲醇	0.18
57	抑菌灵	dichlofluanid	0.26	甲苯	0.26
58	解草酯	cloquintocet mexyl	0.19	甲醇	0.19
59	联苯三唑醇	bitertanol	3.34	甲醇	3.34
60	甲基毒死蜱	chlorprifos methyl	1.60	甲醇	1.60

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
61	吡喃草酮	tepraloxydim	1.22	甲醇	1.22
62	甲基硫菌灵	thiophanate methyl	2.00	甲醇	2.00
63	益棉磷	azinphos ethyl	10.89	甲醇	10.89
64	炔草酸	clodinafop propargyl	0.24	甲醇	0.24
65	杀铃脲	triflumuron	0.39	甲醇	0.39
66	异噁氟草	isoxaflutole	0.39	甲醇	0.39
67	莎稗磷	anilofos	0.07	甲醇	0.07
68	硫菌灵	thiophanat ethyl	8.06	甲醇	2.02
69	啶禾灵	quizalofop-ethyl	0.07	甲醇	0.07
70	精氟吡甲禾灵	haloxyfop-methyl	0.26	甲醇	0.26
71	精吡磺草隆	fluazifop butyl	0.03	甲醇	0.03
72	乙基溴硫磷	bromophos-ethyl	56.77	甲醇	56.77
73	地散磷	bensulide	3.42	甲醇	3.42
74	醚苯磺隆	triasulfuron	0.16	甲醇	0.16
75	溴苯烯磷	bromfeninfos	0.30	甲醇	0.30
76	啞菌酯	azoxystrobin	0.05	甲醇	0.05
77	吡菌磷	pyrazophos	0.16	甲醇	0.16
78	氟虫脲	flufenoxuron	0.32	甲醇	0.32
79	茚虫威	indoxacarb	0.75	甲醇	0.75
B 组					
80	丁酰肼	daminozide	1.04	甲醇	0.26
81	烟碱	nicotine	0.22	甲醇	0.22
82	非草隆	fenuron	0.10	甲醇	0.10
83	灭蝇胺	cyromazine	0.72	甲醇	0.72
84	鼠立克	crimidine	0.16	甲醇	0.16
85	乙酰甲胺磷	acephate	1.33	甲醇	1.33
86	禾草敌	molinate	0.21	甲醇	0.21
87	多菌灵	carbendazim	0.05	甲醇	0.05
88	6-氯-4-羟基-3-苯基吡嗪	6-chloro-4-hydroxy-3-phenyl-pyridazin	0.66	甲醇	0.17
89	残杀威	propoxur	2.44	甲醇	2.44
90	异唑隆	isouron	0.04	甲醇	0.04
91	绿麦隆	chlorotoluron	0.06	甲醇	0.06
92	久效威	thiofanox	15.70	甲醇	15.70
93	氯草灵	chlorbufam	18.30	甲醇	18.30

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
94	噁虫威	bendiocarb	0.32	甲醇	0.32
95	扑灭津	propazine	0.03	甲醇	0.03
96	特丁津	terbuthylazine	0.05	甲醇	0.05
97	敌草隆	diuron	0.16	甲醇	0.16
98	氯甲硫磷	chlormephos	44.8	甲醇	44.8
99	菱锈灵	carboxin	0.06	甲醇	0.06
100	噁虫胺	clothianidin	6.30	甲醇	6.30
101	拿草特	pronamide	1.54	甲醇	1.54
102	二甲草胺	dimethachloro	0.19	甲醇	0.19
103	溴谷隆	methobromuron	1.68	甲苯	1.68
104	甲拌磷	phorate	31.40	甲醇	31.40
105	苯草醚	aclonifen	2.42	甲醇	2.42
106	地安磷	mephosfolan	0.23	甲醇	0.23
107	脱苯甲基亚胺唑	imibenconazole-des-benzyl	0.62	甲醇	0.62
108	草不隆	neburon	0.71	甲醇	0.71
109	精甲霜灵	mefenoxam	0.15	甲醇	0.15
110	乙氧呋草黄	ethofume sate	37.20	甲醇	37.20
111	异稻瘟净	iprobenfos	0.83	甲醇	0.83
112	特普	TEPP	1.04	甲醇	1.04
113	环丙唑醇	cyproconazole	0.07	甲醇	0.07
114	噁虫嗪	thiamethoxam	3.30	甲醇	3.30
115	乙嘧硫磷	etrimfos	1.88	甲醇	1.88
116	杀鼠醚	coumatetralyl	0.54	甲醇	0.14
117	赛灭磷	cythioate	8.00	甲醇	8.00
118	磷胺	phosphamidon	0.39	甲醇	0.39
119	甜菜宁	phenmedipham	0.45	甲醇	0.45
120	联苯井酯	bifenazate	2.28	甲醇	2.28
121	粉唑醇	flutriafol	0.86	甲醇	0.86
122	抑菌丙胺酯	furalaxyl	0.08	甲醇	0.08
123	生物丙烯菊酯	bioallethrin	19.80	甲醇	19.80
124	苯腈磷	cyanofenphos	2.08	甲醇	2.08
125	甲基嘧啶磷	pirimiphos methyl	0.02	甲醇	0.02
126	噁嗪酮	buprofezin	0.09	甲醇	0.09
127	乙拌磷砒	disulfoton sulfone	0.25	甲醇	0.25

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
128	喹唑啉	fenazaquin	0.03	甲醇	0.03
129	三唑磷	triazophos	0.07	甲苯	0.07
130	脱叶磷	DEF	0.16	甲醇	0.16
131	环酯草醚	pyrifthalid	0.06	甲醇	0.06
132	叶菌唑	metconazole	0.13	甲醇	0.13
133	蚊蝇醚	pyriproxyfen	0.04	甲醇	0.04
134	噻草酮	cycloxydim	1.02	甲醇	0.25
135	异噁酰草胺	isoxaben	0.02	甲醇	0.02
136	吡草酮	flurtamone	0.04	甲醇	0.04
137	氟乐灵	trifluralin	33.48	甲苯	33.48
138	甲基麦草氟异丙酯	flamprop methyl	2.02	甲醇	2.02
139	生物吡啶菊酯	bioresmethrin	0.74	甲醇	0.74
140	丙环唑	propiconazole	0.18	甲醇	0.18
141	毒死蜱	chlorpyrifos	5.38	甲醇	5.38
142	氟乙氟灵	fluchloralin	48.80	甲醇	48.80
143	氯磺隆	chlorsulfuron	0.27	甲醇	0.27
144	烯草酮	clethodim	0.21	甲醇	0.21
145	麦草氟异丙酯	flamprop isopropyl	0.04	甲醇	0.04
146	杀虫畏	tetrachlorvinphos	0.22	甲苯	0.22
147	炔螨特	propargite	6.86	甲醇	6.86
148	糠菌唑	bromuconazole	0.31	甲醇	0.31
149	氟吡啶草胺	picolinafen	0.07	甲醇	0.07
150	氟噻乙草酯	fluthiacet methyl	0.53	甲醇	0.53
151	肟菌酯	trifloxystrobin	0.20	甲醇	0.20
152	氟铃脲	hexaflumuron	2.52	甲醇	2.52
153	氟酰脲	novaluron	0.80	甲醇	0.80
154	啶啉脲	flurazuron	2.68	甲醇	2.68
C 组					
155	甲胺磷	methamidophos	0.49	甲醇	0.49
156	茵草敌	EPTC	3.73	甲醇	3.73
157	避蚊胺	diethyltoluamide	0.06	甲醇	0.06
158	灭草隆	monuron	3.47	甲醇	3.47
159	噻霉胺	pyrimethanil	0.07	甲醇	0.07
160	黑穗胺	fenfuram	0.08	甲醇	0.08

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
161	灭藻醌	quinoclamine	0.79	甲醇	0.79
162	仲丁威	fenobucarb	0.59	甲醇	0.59
163	乙菌定	ethirimol	0.06	甲醇	0.06
164	敌稗	propanil	2.16	甲醇	2.16
165	克百威	carbofuran	1.31	甲醇	1.31
166	啶虫清	acetamiprid	0.14	甲醇	0.14
167	噻菌胺	mepanipyrim	0.03	甲醇	0.03
168	扑灭通	prometon	0.01	甲醇	0.01
169	甲硫威	methiocarb	4.12	甲醇	4.12
170	甲氧隆	metoxuron	0.06	甲醇	0.06
171	乐果	dimethoate	0.76	甲醇	0.76
172	呋菌胺	methfuroxam	0.03	甲醇	0.03
173	伏草隆	fluometuron	0.09	甲醇	0.09
174	百治磷	dicrotophos	0.11	甲醇	0.11
175	庚酰草胺	monalide	0.12	甲醇	0.12
176	双苯酰草胺	diphenamid	0.01	甲醇	0.01
177	灭线磷	ethoprophos	0.28	甲醇	0.28
178	地虫硫磷	fonofos	0.75	甲醇	0.75
179	土菌灵	etridiazol	10.04	甲醇	10.04
180	拌种胺	furmecyclox	0.08	甲醇	0.08
181	环嗪酮	hexazinone	0.01	甲醇	0.01
182	异戊乙净	dimethametryn	0.01	甲醇	0.01
183	敌百虫	trichlorphon	0.11	甲醇	0.11
184	内吸磷	demeton(o+s)	0.68	甲醇	0.68
185	解草酮	benoxacor	0.69	甲醇	0.69
186	除草定	bromacil	2.36	甲醇	2.36
187	甲拌磷亚砷	phorate sulfoxide	36.83	甲醇	36.83
188	溴莠敏	brompyrazon	0.36	甲醇	0.36
189	氧化萎锈灵	oxycarboxin	0.09	甲醇	0.09
190	灭锈胺	mepronil	0.04	甲醇	0.04
191	乙拌磷	disulfoton	46.97	甲醇	46.97
192	倍硫磷	fenthion	5.20	甲醇	5.20
193	甲霜灵	metalaxyl	0.05	甲醇	0.05
194	甲呋酰胺	ofurace	0.10	甲醇	0.10

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
195	吗菌灵	dodemorph	0.04	甲醇	0.04
196	甲基咪草酯	imazamethabenz-methyl	0.02	甲醇	0.02
197	乙拌磷亚砷	disulfoton-sulfoxide	0.28	甲醇	0.28
198	稻瘟灵	isoprothiolane	0.19	甲醇	0.19
199	抑霉唑	imazalil	0.20	甲醇	0.20
200	辛硫磷	phoxim	8.28	甲醇	8.28
201	啶硫磷	quinalphos	0.20	甲醇	0.20
202	灭菌磷	ditalimfos	6.72	甲醇	6.72
203	苯氧威	fenoxycarb	1.83	甲醇	1.83
204	噻啉磷	pyrimitate	0.02	甲醇	0.02
205	丰索磷	fensulfothin	0.20	甲醇	0.20
206	氟咯草酮	fluorochloridone	1.38	甲醇	1.38
207	丁草胺	butachlor	2.01	甲醇	2.01
208	咪唑啉啉酸	imazaquin	0.29	甲醇	0.29
209	亚胺菌	kresoxim-methyl	10.06	甲醇	10.06
210	戊叉菌唑	triticonazole	0.30	异辛烷	0.30
211	苯线磷亚砷	fenamiphos sulfoxide	0.07	甲醇	0.07
212	噻吩草胺	thenylchlor	2.41	甲醇	2.41
213	氟菌胺	fenoxanil	3.94	甲醇	3.94
214	氟啉草酮	fluridone	0.02	甲醇	0.02
215	氟环唑	epoxiconazole	0.41	甲醇	0.41
216	氯辛硫磷	chlorphoxim	7.76	甲醇	7.76
217	苯线磷砷	fenamiphos sulfone	0.05	甲醇	0.05
218	腈苯唑	fenbuconazole	0.17	甲醇	0.17
219	异柳磷	isofenphos	21.87	甲醇	21.87
220	苯醚菊酯	phenothrin	33.92	甲醇	33.92
221	氯化薯蓣锡*	fentin-chloride	1.73	甲醇	1.73
222	呱草磷	piperophos	0.92	甲醇	0.92
223	增效醚	piperonyl butoxide	0.11	甲醇	0.11
224	乙氧氟草醚	oxyflurofen	5.86	甲醇	5.86
225	蝇毒磷	coumaphos	0.21	甲醇	0.21
226	氟噻草胺	flufenacet	0.53	甲醇	0.53
227	伏杀硫磷	phosalone	4.80	甲醇	4.80
228	甲氧虫酰肼	methoxyfenozide	0.37	甲醇	0.37

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
229	咪鲜胺	prochloraz	0.21	甲醇	0.21
230	丙硫特普	aspon	0.17	甲醇	0.17
231	乙硫磷	ethion	0.30	甲醇	0.30
232	丁醚脲	diafenthiuron	0.03	甲醇	0.03
233	噻吩磺隆	thifensulfuron-methyl	2.14	甲醇	2.14
234	乙氧嘧磺隆	ethoxysulfuron	0.46	甲醇	0.46
235	氟硫草定	dithiopyr	1.04	甲醇	1.04
236	螺螨酯	spirodiclofen	0.99	甲醇	0.99
237	唑螨酯	fenpyroximate	0.14	甲醇	0.14
238	胺氟草酯	flumiclorac-pentyl	1.06	甲醇	1.06
239	双硫磷	temephos	0.12	甲醇	0.12
240	氟丙嘧草酯	butafenacil	0.95	甲醇	0.95
241	多杀菌素	spinosad	0.06	甲醇	0.06
D组					
242	甲呱金翁	mepiquat chloride	0.09	甲醇	0.09
243	二丙烯草胺	allidochlor	4.10	甲醇	4.10
244	霜霉威	propamocarb	0.01	甲醇	0.01
245	噻菌灵	thiabendazole	0.05	甲醇	0.05
246	苯噻草酮	metamitron	0.64	甲醇	0.64
247	异丙隆	isoproturon	0.01	甲醇	0.01
248	莠去通	atratone	0.02	甲醇	0.02
249	赛克津	metribuzin	0.05	甲苯	0.05
250	—	DMST	4.00	甲醇	4.00
251	环草敌	cycloate	0.44	甲醇	0.44
252	阿特拉津	atrazine	0.04	甲醇	0.04
253	丁草敌	butylate	120.80	甲醇	30.20
254	吡蚜酮	pymetrozin	3.43	甲醇	3.43
255	氟草敏	chloridazon	0.23	甲醇	0.23
256	菜草畏 ^a	sulfallate	20.72	甲苯	20.72
257	乙硫苯威	ethiofencarb	0.49	甲醇	0.49
258	特丁通	terbumeton	0.01	甲醇	0.01
259	莠灭净	ametryn	0.10	甲醇	0.10
260	木草隆	tebuthiuron	0.02	甲醇	0.02
261	草达津	trietazine	0.06	甲醇	0.06

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
262	另丁津	sebutylazine	0.13	甲醇	0.03
263	畜虫避	dibutyl succinate	22.24	甲醇	22.24
264	牧草胺	tebutam	0.01	甲醇	0.01
265	久效威亚砷	thiofanox-sulfoxide	0.83	甲醇	0.83
266	杀螟丹*	cartap hydrochloride	208.00	甲醇	208.00
267	虫螨畏*	methacrifos	242.37	甲醇	242.37
268	咪唑嗪*	triazoxide	0.80	甲醇	0.80
269	虫线磷	thionazin	2.27	甲醇	2.27
270	利谷隆	linuron	1.16	甲醇	1.16
271	庚虫磷	heptanophos	0.58	甲醇	0.58
272	苄草丹	prosulfocarb	0.04	甲醇	0.04
273	杀草净	dipropetryn	0.03	甲醇	0.03
274	禾草丹	thiobencarb	0.33	甲醇	0.33
275	三正丁基磷酸盐	tri- <i>n</i> -butyl phosphate	0.04	甲醇	0.04
276	甲草胺	alachlor	0.74	甲醇	0.74
277	硫线磷	cadusafos	0.12	甲醇	0.12
278	吡唑草胺	metazachlor	0.10	甲醇	0.10
279	胺丙畏	propetamphos	5.40	甲醇	5.40
280	特丁硫磷*	terbufos	224.00	甲醇	224.00
281	硅氟唑	simeconazole	0.29	甲醇	0.29
282	三唑酮	triadimefon	0.79	甲醇	0.79
283	甲拌磷砷	phorate sulfone	4.20	甲醇	4.20
284	十三吗啉	tridemorph	0.26	甲醇	0.26
285	苯噻酰草胺	mefenacet	0.22	甲醇	0.22
286	丁苯吗啉	fenpropimorph	0.02	甲醇	0.02
287	戊唑醇	tebuconazole	0.89	甲醇	0.22
288	异丙乐灵	isopropalin	3.00	甲醇	3.00
289	氟苯嘧啶醇	nuarimol	0.10	甲醇	0.10
290	乙嘧酚磺酸酯	bupirimate	0.28	甲醇	0.07
291	保棉磷*	azinphos-methyl	110.43	甲醇	110.43
292	丁基嘧啶磷	tebupirimfos	0.01	甲醇	0.01
293	稻丰散	phenthoate	9.24	甲醇	9.24
294	治螟磷	sulfotep	0.26	甲醇	0.26
295	硫丙磷	sulprofos	0.58	甲苯	0.58

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
296	苯硫磷	EPN	3.30	甲醇	3.30
297	甲基吡啶磷	azamethiphos	0.08	甲醇	0.08
298	烯唑醇	diniconazole	0.13	甲醇	0.13
299	唑啉磺草胺	flumetsulam	0.03	甲醇	0.03
300	纹枯脲	pencycuron	0.11	甲醇	0.03
301	灭蚜磷	mecarbam	1.96	甲醇	1.96
302	苯草酮	tralkoxydim	0.03	甲醇	0.03
303	马拉硫磷	malathion	2.26	甲醇	0.56
304	稗草畏	pyributicarb	0.03	甲醇	0.03
305	哒嗪硫磷	pyridaphenthion	0.09	甲醇	0.09
306	硫双威	thiodicarb	15.75	甲醇	3.94
307	吡唑硫磷	pyraclofos	0.10	甲醇	0.10
308	啶氧菌酯	picoxystrobin	0.84	甲醇	0.84
309	四氟醚唑	tetraconazole	0.17	甲醇	0.17
310	吡唑解草酯	mefenpyr-diethyl	1.26	甲醇	1.26
311	丙溴磷	profenefos	0.20	甲醇	0.20
312	百克敏	pyraclostrobin	0.05	甲醇	0.05
313	烯酰吗啉	dimethomorph	0.04	甲醇	0.04
314	噁噁菊酯	kadethrin	0.33	甲醇	0.33
315	噁唑烟酸	thiazopyr	0.20	甲醇	0.20
316	醚黄隆*	cinosulfuron	0.11	甲醇	0.11
317	吡啶磺隆	pyrazosulfuron-ethyl	0.68	甲醇	0.68
318	磺草胺唑	metosulam	1.76	甲醇	0.44
E 组					
319	4-氨基吡啶	4-aminopyridine	0.09	甲醇	0.09
320	矮壮素	chlormequat	0.01	甲醇	0.01
321	灭多威	methomyl	0.96	甲醇	0.96
322	咯嗪酮	pyroquilon	0.35	甲醇	0.35
323	麦穗灵	fuberidazole	0.19	甲醇	0.19
324	丁脞酰胺	isocarbamid	0.17	甲醇	0.17
325	丁腈威	butocarboxim	0.63	甲醇	0.16
326	杀虫脒	chlordimeform	0.13	甲醇	0.13
327	霜脲氰	cymoxanil	5.56	甲醇	5.56
328	灭害威	aminocarb	1.64	甲醇	1.64

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
329	甲菌定	dimethirimol	0.01	甲醇	0.01
330	氧乐果	omethoate	0.97	甲醇	0.97
331	乙氧喹啉	ethoxyquin	0.35	甲醇	0.35
332	敌敌畏	dichlorvos	0.06	甲醇	0.06
333	涕灭威砜	aldicarb sulfone	2.14	甲醇	2.14
334	二氧威	dioxacarb	0.34	甲醇	0.34
335	苄基腺嘌呤	benzyladenine	7.08	甲醇	7.08
336	甲基内吸磷	demeton-s-methyl	0.53	甲醇	0.53
337	乙硫苯威亚砜	ethiofencarb-sulfoxide	22.40	甲醇	22.40
338	甲基乙拌磷	thiometon	57.80	甲醇	57.80
339	灭菌丹	folpet	13.86	甲醇	13.86
340	甲基内吸磷砜	demeton-s-methyl sulfone	1.98	甲醇	1.98
341	苯锈定	fenpropidin	0.02	甲醇	0.02
342	甲咪唑烟酸	imazapic	0.59	甲醇	0.59
343	对氧磷	paraoxon-ethyl	0.05	甲醇	0.05
344	乙烯菌核利	vinclozolin	0.25	甲醇	0.25
345	烯效唑	uniconazole	0.24	甲醇	0.24
346	啶斑肟	pyrifenox	0.03	甲醇	0.03
347	异氯磷	dicapthon	0.10	甲醇	0.02
348	四螨嗪	clofentezine	0.08	甲醇	0.08
349	氟草敏	norflurazon	0.03	甲醇	0.03
350	野麦畏	triallate	4.62	甲醇	4.62
351	福美锌	ziram	7.84	甲醇	7.84
352	苯氧喹啉	quinoxiphen	15.34	甲醇	15.34
353	倍硫磷砜	fenthion sulfone	1.75	甲醇	1.75
354	氟咯草酮	flurochloridone	0.13	甲醇	0.13
355	酞酸苯甲基丁酯	phthalic acid, benzyl butyl ester	63.20	甲醇	63.20
356	氯唑磷	isazofos	0.02	甲醇	0.02
357	除线磷	dichlofenthion	3.02	甲醇	3.02
358	特丁硫磷砜	terbufos sulfone	8.86	甲醇	8.86
359	敌乐胺	dinitramine	0.18	甲苯	0.18
360	毒壤磷	trichloronat	6.68	甲醇	6.68
361	苯呋菊酯	resmethrin	0.03	甲醇	0.03
362	啶酰菌胺	boscalid	0.48	甲醇	0.48

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
363	甲氰菊酯	fenpropathrin	24.50	甲醇	24.50
364	噻螨酮	hexythiazox	2.36	甲醇	2.36
365	啉螨醚	pyrimidifen	1.40	甲醇	1.40
366	呋线威	furathiocarb	0.19	甲醇	0.19
367	反式氯菊酯	<i>trans</i> -permethin	0.48	甲醇	0.48
368	苄草啞*	pyrazoxyfen	0.03	甲醇	0.03
369	啉啞啞	flubenzimine	0.78	甲醇	0.78
370	Z-氯氰菊酯	<i>zeta</i> cypermethrin	0.07	甲醇	0.07
371	氟吡乙禾灵	haloxyfop-2-ethoxyethyl	0.25	甲醇	0.25
372	氟胺氰菊酯	<i>tau</i> -fluvallinate	23.00	甲醇	23.00
F 组					
373	叔丁基胺	<i>tert</i> -butylamine	3.90	甲醇	3.90
374	噁霉灵	hymexazol	22.41	甲醇	22.41
375	矮壮素氯化物	chlormequat chloride	0.07	甲醇	0.07
376	邻苯二甲酰亚胺*	phthalimide	4.30	甲醇	4.30
377	甲氟磷	dimefox	6.82	甲醇	6.82
378	二苯胺	diphenylamin	0.04	甲醇	0.04
379	1-萘基乙酰胺	1-naphthyl acetamide	0.08	甲醇	0.08
380	脱乙基莠去津	atrazine-desethyl	0.25	甲醇	0.06
381	2,6-二氯苯甲酰胺*	2,6-dichlorobenzamide	0.45	甲醇	0.45
382	涕灭威	aldicarb	26.10	甲醇	26.10
383	邻苯二甲酸二甲酯	dimethyl phthalate	1.32	甲醇	1.32
384	西玛通	simeton	0.11	甲醇	0.11
385	呋草胺	dinotefuran	1.02	甲醇	1.02
386	克草敌	pebulate	0.34	甲醇	0.34
387	蔬果磷	dioxabenzofos	5.54	甲醇	1.38
388	杀线威	oxamyl	54.81	甲醇	54.81
389	甲基苯噻隆	methabenzthiazuron	0.01	甲醇	0.01
390	丁酮砒威	butoxycarboxim	10.64	甲醇	2.66
391	甲基内吸磷亚砒	demeton- <i>s</i> -methyl sulfoxide	0.39	甲醇	0.39
392	硫环磷*	phosfolan	0.05	环己烷	0.05
393	氧倍硫磷	fenthion oxon	0.12	甲醇	0.12
394	萘丙胺	napropamide	0.13	甲醇	0.13
395	杀螟硫磷	fenitrothion	2.68	甲醇	2.68

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
396	酞酸二丁酯	phthalic acid, dibutyl ester	15.84	甲醇	3.96
397	腐霉利	procymidone	8.66	甲醇	8.66
398	可灭隆	cumyluron	0.13	甲醇	0.13
399	甲氧咪草烟	imazamox	0.72	甲醇	0.18
400	亚胺硫磷 ^a	phosmet	1.77	甲醇	1.77
401	皮蝇磷	ronnel	1.31	甲醇	1.31
402	—	phthalic acid, bicyclohexyl ester	0.07	甲醇	0.07
403	吡螨胺	tebufenpyrad	0.03	甲醇	0.03
404	虫螨磷	chlorthiophos	3.18	甲醇	3.18
405	氯亚胺硫磷	dialifos	15.70	甲醇	15.70
406	鱼藤酮	rotenone	0.23	甲醇	0.23
407	亚胺唑	imibenconazole	1.03	甲醇	1.03
408	噁草酸	propaquizafop	0.12	甲醇	0.12
409	乳氟禾草灵	lactofen	6.20	甲醇	6.20
410	2,3,4,5-四氯苯胺	2,3,4,5-tetrachloroaniline	5.36	甲醇	5.36
411	苯螨特	benzoximate	0.86	甲醇	0.86
412	地乐酯	dinoseb acetate	4.13	甲醇	4.13
413	异丙草胺	propisochlor	0.08	甲醇	0.08
414	氟硅菊酯 ^a	silaflofen	243.20	甲醇	60.80
415	乙氧苯草胺 ^a	etobenzanid	0.08	甲醇	0.08
416	四唑酰草胺 ^a	fentrazamide	1.24	甲醇	1.24
G 组					
417	茅草枯	dalapon	23.07	甲醇	23.07
418	2-苯基苯酚	2-phenylphenol	16.99	甲醇	16.99
419	3-苯基苯酚	3-phenylphenol	0.40	甲醇	0.40
420	4,6-二硝基邻甲酚	DNOC	0.26	甲醇	0.26
421	调果酸 ^a	cloprop	1.14	甲醇	1.14
422	氯硝胺	dicloran	19.42	甲醇	4.86
423	氯苯胺灵	chlorpropham	1.58	甲醇	1.58
424	2-甲-4-氯丙酸 ^a	mecoprop	0.49	甲醇	0.49
425	特草定	terbacil	0.35	甲醇	0.09
426	2,4-滴 ^a	2,4-D	1.19	甲醇	1.19
427	麦草畏	dicamba	126.59	甲醇	126.59
428	二甲四氯丁酸	MCPB	1.42	甲醇	1.42

表 A.1 (续)

序号	中文名称	英文名称	检出限/ ($\mu\text{g/L}$)	溶剂	混合标准溶液 浓度/(mg/L)
429	地乐酚	dinoseb	0.04	甲醇	0.04
430	草消酚	dinoterb	0.02	甲醇	0.02
431	杀螨醇	chlorfenethol	65.72	甲醇	16.43
432	溴苯腈	bromoxynil	0.18	甲醇	0.18
433	灭幼脲	chlorobenzuron	2.04	甲醇	2.04
434	氯霉素	chloramphenicolum	1.55	甲醇	0.39
435	禾草灭	alloxydim-sodium	0.08	甲醇	0.02
436	杀虫双 ^a	dimehypo	40.02	甲醇	40.02
437	氟吡草腈钠 ^a	diflufenzopyr-sodium	3.08	甲醇	3.08
438	乙酰磺胺对硝基苯	sulfanitran	0.30	甲醇	0.30
439	安磺灵	oryzalin	0.49	甲醇	0.49
440	三氟羧草醚	acifluorfen	11.80	甲醇	11.80
441	碘苯腈	ioxynil	0.25	甲醇	0.06
442	噁唑菌酮	famoxadone	4.53	甲醇	4.53
443	吡氟醚草胺	diflufenican	2.83	甲醇	2.83
444	氟吡唑	ethiprole	3.99	甲醇	3.99
445	磺菌胺 ^a	flusulfamide	0.04	甲醇	0.04
446	环丙嘧磺隆	cyclosulfamuron	34.37	甲醇	34.37
447	氟磺胺草醚	fomesafen	0.20	甲醇	0.20
448	氟啶胺	fluazinam	7.06	甲醇	7.06
449	吡虫隆	fluazuron	0.01	甲醇	0.01
450	氟丙菊酯	acrinathrin	0.81	甲醇	0.81

^a 表示仅可定性的农药及相关化学品种类。

附录 B

(资料性附录)

450 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

450 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.1 450 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	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	213.2/172;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;10
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	sebumeton	5.56	226.2/170.1	226.2/170.1;226.2/142.1	120	20;25
13	啞菌磺胺	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	鼠草津	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	甲基对氧磷	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	磺噁隆	ethidimuron	4.62	265.1/208.1	265.1/208.1;265.1/162.1	80	10;25
25	丁噻草酮	isomethiozin	14.20	269.1/200.0	269.1/200.0;269.1/172.1	120	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
26	燕麦敌	diallate	17.40	270.0/86.0	270.0/86.0;270.0/109.0	100	15;35
27	乙草胺	acetochlor	13.70	270.2/224.0	270.2/224;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	methoprotlyne	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	倍硫磷亚砷	fenthion sulfoxide	7.31	295.1/109.0	295.1/109;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	氮磷磷	famphur	10.30	326.0/217.0	326.0/217.0;326.0/281.0	100	20;10
52	苯霜灵	benalxyl	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	氟苯嘧啶醇	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	抑菌灵	dichlofluanid	15.16	333.0/123.0	333.0/123.0;333.0/224.0	80	20;10
58	解草酯	cloquintocet mexyl	17.36	336.1/238.1	336.1/238.1;336.1/192.1	120	15;20
59	联苯三唑醇	bitertanol	13.90	338.2/70.0	338.2/70.0;338.2/269.2	60	5;1

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	甲基毒死蜱	chlorprifos methyl	16.72	322.0/125.0	322.0/125.0;322.0/290.0	80	15;15
61	吡喃草酮	tepraloxym	12.73	342.2/250.2	342.2/250.2;342.2/166.1	120	10;25
62	甲基硫菌灵	thiophanate methyl	6.28	343.1/151.1	343.1/151.1;343.1/311.1	120	20;10
63	益棉磷	azinphos ethyl	14.00	346.0/233.0	346.0/233;346.0/261.1	120	10;5
64	炔草酸	clodinafop propargyl	16.09	350.1/266.1	350.1/266.1;350.1/238.1	120	15;20
65	杀铃脲	triflumuron	15.59	359.0/156.1	359.0/156.1;359.0/139.0	120	15;30
66	异噁氟草	isoxaflutole	12.00	360.0/251.1	360.0/251.1;360.0/220.1	120	10;45
67	莎稗磷	anilofos	17.35	367.9/145.2	367.9/145.2;367.9/205.0	120	20;5
68	硫菌灵	thiophanat ethyl	9.32	371.1/151.1	371.1/151.1;371.1/325.0	120	15;10
69	喹禾灵	quizalofop-ethyl	17.40	373.0/299.1	373.0/299.1;373.0/91.0	140	15;30
70	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
71	精吡磺草隆	fluazifop butyl	18.24	384.1/282.1	384.1/282.1;384.1/328.1	120	20;15
72	乙基溴硫磷	bromophos-ethyl	19.15	393.0/337.0	393.0/337.0;393.0/162.1	100	20;30
73	地散磷	bensulide	16.18	398.0/158.1	398.0/158.1;398.0/314.0	80	20;5
74	醚苯磺隆	triasulfuron	7.27	402.1/167.1	402.1/167.1;402.1/141.1	120	15;20
75	溴苯烯磷	bromfeninfos	15.22	402.9/170.0	402.9/170.0;402.9/127.0	100	35;20
76	啞菌酯	azoxystrobin	12.50	404.0/372.0	404.0/372.0;404.0/344.1	120	10;15
77	吡菌磷	pyrazophos	16.20	374.0/222.0	374.0/222.0;374.0/194.0	120	20;30
78	氟虫脲	flufenoxuron	18.30	489.0/158.1	489.0/158.1;489.0/141.1	80	10;15
79	茚虫威	indoxacarb	17.43	528.0/150.0	528.0/150.0;528.0/218.0	120	20;20
B 组							
80	丁酰肼	daminozide	0.74	161.1/143.1	161.1/143.1;161.1/102.2	80	15;15
81	烟碱	nicotine	0.74	163.2/130.1	163.2/130.1;163.2/117.1	100	25;30
82	非草隆	fenuron	4.50	165.1/72.0	165.1/72.0;165.1/120.0	120	15;15
83	灭蝇胺	cyromazine	0.74	167.0/85.0	167.0/85.0;167.0/125.0	120	25;20
84	鼠立克	crimidine	4.47	172.1/107.1	172.1/107.1;172.1/136.2	120	30;25
85	乙酰甲胺磷	acephate	0.74	184.1/143.0	184.1/143.0;184.1/95.0	60	5;20
86	禾草敌	molinate	11.30	188.1/126.1	188.1/126.1;188.1/83.0	120	10;15
87	多菌灵	carbendazim	3.30	192.1/160.1	192.1/160.1;192.1/132.1	80	15;20
88	6-氯-4-羟基-3-苯基吡嗪	6-chloro-4-hydroxy-3-phenyl-pyridazin	12.86	207.1/77.0	207.1/77.0;207.1/104.0	120	25;35
89	残杀威	propoxur	6.79	210.1/111.0	210.1/111;210.1/168.1	80	10;5
90	异唑隆	isouron	6.11	212.2/167.1	212.2/167.1;212.2/72.0	120	15;25
91	绿麦隆	chlorotoluron	7.23	213.1/72.0	213.1/72.0;213.1/140.1	80	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
92	久效威	thiofanox	1.00	241.0/184.0	241.0/184.0;241.0/57.1	120	15;5
93	氯草灵	chlorbufam	11.67	224.1/172.1	224.1/172.1;224.1/154.1	120	5;15
94	噁虫威	bendiocarb	6.87	224.1/109.0	224.1/109.0;224.1/167.1	80	5;10
95	扑灭津	propazine	9.37	229.9/146.1	229.9/146.1;229.9/188.1	120	20;15
96	特丁津	terbuthylazine	10.15	230.1/174.1	230.1/174.1;230.1/132.0	120	15;20
97	敌草隆	diuron	7.82	233.1/72.0	233.1/72.0;233.1/160.1	120	20;20
98	氯甲硫磷	chlormephos	13.70	235.0/125.0	235.0/125.0;235.0/75.0	100	10;10
99	萎锈灵	carboxin	7.67	236.1/143.1	236.1/143.1;236.1/87.0	120	15;20
100	噁虫胺	clothianidin	4.40	250.2/169.1	250.2/169.1;250.2/132.0	80	10;15
101	拿草特	pronamide	11.81	256.1/190.1	256.1/190.1;256.1/173.0	80	10;20
102	二甲草胺	dimethachloro	8.96	256.1/224.2	256.1/224.2;256.1/148.2	120	10;20
103	溴谷隆	methobromuron	8.25	259.0/170.1	259.0/170.1;259.0/148.0	80	15;15
104	甲拌磷	phorate	16.55	261.0/75.0	261.0/75.0;261.0/199.0	80	10;5
105	苯草醚	aclonifen	14.70	265.1/248.0	265.1/248.0;265.1/193.0	120	15;15
106	地安磷	mephosfolan	5.97	270.1/140.1	270.1/140.1;270.1/168.1	100	25;15
107	脱苯甲基亚 胺唑	imibenconazole- des-benzyl	5.96	271.0/174.0	271.0/174.0;271.0/70.0	120	25;25
108	草不隆	neburon	14.17	275.1/57.0	275.1/57.0;275.1/88.1	120	20;15
109	精甲霜灵	mefenoxam	7.92	280.1/192.1	280.1/192.1;280.1/220.0	100	15;10
110	乙氧呋草黄	ethofume sate	12.86	287.0/121.0	287.0/121.0;287.0/161.0	80	10;20
111	异稻瘟净	iprobenfos	13.50	289.1/91.0	289.1/91.0;289.1/205.1	80	25;5
112	特普	TEPP	5.64	291.1/179.0	291.1/179.0;291.1/99.0	100	20;35
113	环丙唑醇	cyproconazole	10.59	292.1/70.0	292.1/70.0;292.1/125.0	120	15;15
114	噁虫嗪	thiamethoxam	4.05	292.1/211.2	292.1/211.2;292.1/181.1	80	10;20
115	乙嘧硫磷	etrimfos	6.16	293.1/125.0	293.1/125.0;293.1/265.1	80	20;15
116	杀鼠醚	coumatetralyl	4.68	293.2/107.0	293.2/107.0;293.2/175.1	140	35;25
117	赛灭磷	cythioate	6.59	298.0/217.1	298.0/217.1;298.0/125.0	100	15;25
118	磷胺	phosphamidon	5.77	300.1/174.1	300.1/174.1;300.1/127.0	120	10;20
119	甜菜宁	phenmedipham	10.69	301.1/168.1	301.1/168.1;301.1/136.0	80	5;20
120	联苯井酯	bifenazate	13.28	301.2/198.1	301.2/198.1;301.2/170.1	60	5;20
121	粉唑醇	flutriafol	7.55	302.1/70.0	302.1/70.0;302.1/123.0	120	15;20
122	抑菌丙胺酯	furalaxyl	10.77	302.2/242.2	302.2/242.2;302.2/270.2	100	15;5
123	生物丙烯菊酯	bioallethrin	18.00	303.1/135.1	303.1/135.1;303.1/107.0	80	10;20
124	苯腈磷	cyanofenphos	16.44	304.0/157.0	304.0/157.0;304.0/276.0	100	20;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
125	甲基嘧啶磷	pirimiphos methyl	15.50	306.2/164.0	306.2/164.0;306.2/108.1	120	20;30
126	噻嗪酮	buprofezin	13.34	306.2/201.0	306.2/201.0;306.2/116.1	120	15;10
127	乙拌磷砒	disulfoton sulfone	9.79	307.0/97.0	307.0/97.0;307.0/125.0	100	30;10
128	唑螨醚	fenazaquin	18.80	307.2/57.1	307.2/57.1;307.2/161.2	120	20;15
129	三唑磷	triazophos	13.80	314.1/162.1	314.1/162.1;314.1/286.0	120	20;10
130	脱叶磷	DEF	19.21	315.1/169.0	315.1/169.0;315.1/113.0	100	10;20
131	环酯草醚	pyrifthalid	12.00	319.0/139.1	319.0/139.1;319.0/179.0	140	35;35
132	叶菌唑	metconazole	13.77	320.2/70.0	320.2/70.0;320.2/125.0	140	35;55
133	蚊蝇醚	pyriproxyfen	18.00	322.1/96.0	322.1/96.0;322.1/227.1	120	15;10
134	噻草酮	cycloxydim	17.00	326.2/280.2	326.2/280.2;326.2/180.2	120	10;15
135	异噁酰草胺	isoxaben	13.21	333.1/165.0	333.1/165.0;333.1/150.1	120	15;50
136	呋草酮	flurtamone	11.25	334.1/247.1	334.1/247.1;334.1/303.0	120	30;20
137	氟乐灵	trifluralin	12.86	336.0/138.9	336.0/138.9;336.0/103.0	120	20;45
138	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
139	生物苜蓿菊酯	bioresmethrin	19.39	339.2/171.1	339.2/171.1;339.2/143.1	100	15;25
140	丙环唑	propiconazole	14.29	342.1/159.1	342.1/159.1;342.1/69.0	120	20;20
141	毒死蜱	chlorpyrifos	18.29	350.0/198.0	350.0/198.0;350.0/79.0	100	20;35
142	氟乙氟灵	fluchloralin	17.68	356.0/186.0	356.0/314.1;356.0/63.0	80	15;30
143	氯磺隆	chlorsulfuron	6.96	358.0/141.1	358.0/141.1;358.0/167.0	120	15;15
144	烯草酮	clethodim	17.60	360.1/164.1	360.1/164.1;360.1/268.0	120	20;10
145	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
146	杀虫畏	tetrachlorvinphos	13.70	365.0/127.0	365.0/127.0;365.0/239.0	120	15;15
147	炔螨特	propargite	18.77	368.1/231.0	368.1/231.0;368.1/175.1	100	5;15
148	糠菌唑	bromuconazole	12.70	376.0/159.0	376.0/159.0;376.0/70.0	80	20;20
149	氟吡啶草胺	picolinafen	17.74	377.0/238.0	377.0/238.0;377.0/359.0	120	20;20
150	氟噻乙草酯	fluthiacet methyl	14.80	404.0/215.0	404.0/215.0;404.0/274.0	180	50;10
151	肟菌酯	trifloxystrobin	17.44	409.3/186.1	409.3/186.1;409.3/206.2	120	15;10
152	氟铃脲	hexaflumuron	16.90	461.0/141.1	461.0/141.1;461.0/158.1	120	35;35
153	氟酰脲	novaluron	17.39	493.0/158.0	493.0/158.0;493.0/141.1	80	15;55
154	啶嘧脲	flurazuron	18.10	506.0/158.1	506.0/158.1;506.0/141.1	120	15;50
C 组							
155	甲胺磷	methamidophos	0.74	142.1/94.0	142.1/94.0;142.1/125.0	80	15;10
156	茵草敌	EPTC	14.00	190.2/86.0	190.2/86.0;190.2/128.1	100	10;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
157	避蚊胺	diethyltoluamide	7.70	192.2/119.0	192.2/119.0;192.2/91.0	100	15;30
158	灭草隆	monuron	5.94	199.0/72.0	199.0/72.0;199.0/126.0	120	15;15
159	嘧霉胺	pyrimethanil	6.70	200.2/107.0	200.2/107.0;200.2/183.1	120	25;25
160	黑穗胺	fenfuram	7.48	202.1/109.0	202.1/109.0;202.1/83.0	120	20;20
161	灭藻醌	quinoclamine	6.09	208.1/105.0	208.1/105.0;208.1/154.1	120	30;20
162	仲丁威	fenobucarb	9.92	208.2/95.0	208.2/95.0;208.2/152.1	80	10;5
163	乙菌定	ethirimol	4.29	210.2/140.1	210.2/140.1;210.2/98.0	120	25;30
164	敌稗	propanil	9.09	218.0/162.1	218.0/162.1;218.0/127.0	120	15;20
165	克百威	carbofuran	6.81	222.3/165.1	222.3/165.1;222.3/123.1	120	5;20
166	啶虫清	acetamiprid	4.86	223.2/126.0	223.2/126.0;223.2/56.0	120	15;15
167	啉菌胺	mepanipyrim	12.23	224.2/77.0	224.2/77.0;224.2/106.0	120	30;25
168	扑灭通	prometon	5.40	226.2/142.0	226.2/142;226.2/184.1	120	20;20
169	甲硫威	methiocarb	4.51	226.2/121.1	226.2/121.1;226.2/169.1	80	10;5
170	甲氧隆	metoxuron	5.59	229.1/72.0	229.1/72.0;229.1/156.1	120	20;20
171	乐果	dimethoate	4.88	230.0/199.0	230.0/199.0;230.0/171.0	80	5;10
172	呋菌胺	methfuroxam	10.42	230.2/137.1	230.2/137.1;230.2/111.1	120	20;15
173	伏草隆	fluometuron	7.27	233.1/72.0	233.1/72.0;233.1/160.0	120	20;20
174	百治磷	dicrotophos	3.97	238.1/112.1	238.1/112.1;238.1/193.0	80	10;5
175	庚酰草胺	monalide	14.50	240.1/85.1	240.1/85.1;240.1/57.0	120	15;35
176	双苯酰草胺	diphenamid	9.00	240.1/134.1	240.1/134.1;240.1/167.1	120	20;25
177	灭线磷	ethoprophos	11.98	243.1/173.0	243.1/173.0;243.1/215.0	120	10;10
178	地虫硫磷	fonofos	16.10	247.1/109.0	247.1/109.0;247.1/137.1	80	15;5
179	土菌灵	etridiazol	17.20	247.1/183.1	247.1/183.1;247.1/132.0	120	15;15
180	拌种胺	furmecyclox	14.00	252.2/170.1	252.2/170.1;252.2/110.1	100	10;25
181	环嗪酮	hexazinone	5.66	253.2/171.1	253.2/171.1;253.2/71.0	120	15;20
182	异戊乙净	dimethametryn	8.79	256.2/186.1	256.2/186.1;256.2/96.1	140	20;35
183	敌百虫	trichlorphon	4.21	257.0/221.0	257.0/221.0;257.0/109.0	120	10;20
184	内吸磷	demeton(<i>o+s</i>)	8.59	259.1/89.0	259.1/89.0;259.1/61.0	60	10;35
185	解草酮	benoxacor	10.83	260.0/149.2	260.0/149.2;260/134.1	120	15;20
186	除草定	bromacil	5.78	261.0/205.0	261.0/205.0;261.0/188.0	80	10;20
187	甲拌磷亚砷	phorate sulfoxide	7.34	277.0/143.0	277.0/143.0;277.0/199.0	100	15;5
188	溴莠敏	brompyrazon	4.69	266.0/92.0	266.0/92.0;266.0/104.0	120	30;30
189	氧化萎锈灵	oxycarboxin	5.38	268.0/175.0	268.0/175.0;268/147.1	100	10;20
190	灭锈胺	mepronil	13.15	270.2/119.1	270.2/119.1;270.2/228.2	100	30;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
191	乙拌磷	disulfoton	16.80	275.0/89.0	275.0/89.0;275.0/61.0	80	5;20
192	倍硫磷	fenthion	15.54	279.0/169.1	279.0/169.1;279.0/247.0	120	15;10
193	甲霜灵	metalaxyl	7.75	280.1/192.2	280.1/192.2;280.1/220.2	120	15;20
194	甲呋酰胺	ofurace	7.65	282.1/160.2	282.1/160.2;282.1/254.2	120	20.1
195	吗菌灵	dodemorph	8.45	282.3/116.1	282.3/116.1;282.3/98.1	120	20;30
196	甲基咪草酯	imazamethabenz- methyl	5.33	289.1/229.0	289.1/229.0;289.1/86.0	120	15;25
197	乙拌磷亚砷	disulfoton-sulfoxide	7.38	291.0/185.0	291.0/185;291.0/157.0	80	10;20
198	稻瘟灵	isoprothiolane	13.17	291.1/189.1	291.1/189.1;291.1/231.1	80	20;5
199	抑霉唑	imazalil	6.86	297.0/159.0	297.0/159.0;297.0/255.0	120	20;20
200	辛硫磷	phoxim	16.80	299.0/77.0	299.0/77.0;299.0/129.0	80	20;10
201	喹硫磷	quinalphos	14.80	299.1/147.1	299.1/147.1;299.1/163.1	120	20;20
202	灭菌磷	ditalimfos	13.53	300.0/148.1	300.0/148.1;300.0/244.0	80	15;10
203	苯氧威	fenoxycarb	18.10	362.1/288.0	362.1/288.0;362.1/244.0	120	20;20
204	嘧啶磷	pyrimitate	14.00	306.1/170.2	306.1/170.2;306.1/154.2	120	20;20
205	丰索磷	fensulfothin	8.55	309.0/157.1	309.0/157.1;309.0/253.0	120	25;15
206	氟咯草酮	fluorochloridone	13.80	312.1/292.1	312.1/292.1;312.1/89.0	100	25;25
207	丁草胺	butachlor	18.00	312.2/238.1	312.2/238.1;312.2/162.0	80	10;20
208	咪唑啉啉酸	imazaquin	6.27	312.2/199.1	312.2/199.1;312.2/267.0	160	25;20
209	亚胺菌	kresoxim-methyl	15.20	314.1/267.0	314.1/267.0;314.1/206.0	80	5;5
210	戊叉菌唑	triticonazole	10.55	318.2/70.0	318.2/70.0;318.2/125.1	120	15;35
211	苯线磷亚砷	fenamiphos sulfox- ide	5.87	320.1/171.1	320.1/171.1;320.1/292.1	140	25;15
212	噻吩草胺	thenylchlor	14.00	324.1/127.0	324.1/127.0;324.1/59.0	80	10;45
213	氟菌胺	fenoxanil	18.81	329.1/302.0	329.1/302.0;329.1/189.1	80	5;30
214	氟啶草酮	fluridone	10.30	330.1/309.1	330.1/309.1;330.1/259.2	160	40;55
215	氟环唑	epoxiconazole	18.81	330.1/141.1	330.1/141.1;330.1/121.1	120	20;20
216	氯辛硫磷	chlorphoxim	17.15	333.0/125.0	333.0/125.0;333.0/163.1	80	5;5
217	苯线磷砷	fenamiphos sulfone	6.63	336.1/188.2	336.1/188.2;336.1/266.2	120	30;20
218	腈苯唑	fenbuconazole	13.40	337.1/70.0	337.1/70.0;337.1/125.0	120	20;20
219	异柳磷	isofenphos	17.25	346.1/217.0	346.1/217.0;346.1/245.0	80	20;10
220	苯醚菊酯	phenothrin	19.70	351.1/183.2	351.1/183.2;351.1/237.0	100	15;5
221	氯化薯瘟锡	fentin-chloride	7.00	351.1/120.0	351.1/120.0;351.1/170.0	180	40;30
222	呱草磷	piperophos	17.00	354.1/171.0	354.1/171.0;354.1/143.0	100	20;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
223	增效醚	piperonyl butoxide	17.75	356.2/177.1	356.2/177.1;356.2/119.0	100	10;35
224	乙氧氟草醚	oxyflurofen	18.00	362.0/316.1	362.0/316.1;362/237.1	120	10;25
225	蝇毒磷	coumaphos	16.42	363.1/227.2	363.1/227.2;363.1/307.1	120	20;15
226	氟噻草胺	flufenacet	14.00	364.0/194.0	364.0/194.0;364/152.0	80	5;10
227	伏杀硫磷	phosalone	16.79	368.1/182.0	368.1/182.0;368.1/322.0	80	10;5
228	甲氧虫酰肼	methoxyfenozide	13.41	313.0/149.0	313.0/149.0;313.0/91.0	100	10;35
229	咪鲜胺	prochloraz	11.79	376.1/308.0	376.1/308.0;376.1/266.0	80	10;10
230	丙硫特普	aspon	19.22	379.1/115.0	379.1/115.0;379.1/210.0	80	30;15
231	乙硫磷	ethion	18.46	385.0/199.1	385.0/199.1;385.0/171.0	80	5;15
232	丁醚脲	diafenthiuron	18.90	385.0/329.2	385.0/329.2;385.0/278.2	140	15;35
233	噻吩磺隆	thifensulfuron- methyl	6.40	388.1/167.0	388.1/167.0;388.1/141.1	120	10;10
234	乙氧嘧磺隆	ethoxysulfuron	11.86	399.2/261.1	399.2/261.1;399.2/218.1	120	25;25
235	氟硫草定	dithiopyr	17.81	402.0/354.0	402.0/354.0;402.0/272.0	120	20;30
236	螺螨酯	spirodiclofen	19.28	411.1/71.0	411.1/71.0;411.1/313.1	100	10;5
237	唑螨酯	fenpyroximate	18.66	422.2/366.2	422.2/366.2;422.2/135.0	120	10;35
238	胺氟草酯	flumiclorac-pentyl	18.00	441.1/308.0	441.1/308.0;441.1/354.0	100	25;10
239	双硫磷	temephos	18.30	467.0/125.0	467.0/125.0;467.0/155.0	100	30;30
240	氟丙嘧草酯	butafenacil	15.00	492.0/180.0	492.0/180.0;492.0/331.0	120	35;25
241	多杀菌素	spinosad	14.30	732.4/142.2	732.4/142.2;732.4/98.1	180	30;75
D组							
242	甲呱金翁	mepiquat chloride	0.71	114.1/98.1	114.1/98.1;114.1/58.0	140	30;30
243	二丙烯草胺	allidochlor	5.78	174.1/98.1	174.1/98.1;174.1/81.0	100	10;15
244	霜霉威	propamocarb	2.84	190.1/102.1	190.1/102.1;190.1/74.1	110	20;30
245	噻菌灵	thiabendazole	3.32	202.1/175.1	202.1/175.1;202.1/131.1	120	30;30
246	苯噻草酮	metamitron	4.18	203.1/175.1	203.1/175.1;203.1/104.0	120	15;20
247	异丙隆	isoproturon	7.44	207.2/72.0	207.2/72.0;207.2/165.1	120	15;15
248	莠去通	atratone	4.46	212.2/170.2	212.2/170.2;212.2/100.1	120	15;30
249	赛克津	metribuzin	7.16	215.1/187.2	215.1/187.2;215.1/131.1	120	15;20
250	—	DMST	7.06	215.3/106.1	215.3/106.1;215.3/151.2	80	10;5
251	环草敌	cycloate	15.95	216.2/83.0	216.2/83.0;216.2/154.1	120	15;10
252	阿特拉津	atrazine	7.20	216.0/174.2	216.0/174.2;216.0/132.0	120	15;20
253	丁草敌	butylate	17.20	218.1/57.0	218.1/57.0;218.1/156.2	80	10;5
254	吡蚜酮	pymetrozin	0.73	218.1/105.1	218.1/105.1;218.1/78.0	100	20;40

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
255	氯草敏	chloridazon	4.35	222.1/104.0	222.1/104.0;222.1/92.0	120	25;35
256	菜草畏	sulfallate	15.25	224.1/116.1	224.1/116.1;224.1/88.2	100	10;20
257	乙硫苯威	ethiofencarb	4.48	227.0/107.0	227.0/107.0;227.0/164.0	80	5;5
258	特丁通	terbumeton	5.25	226.2/170.1	226.2/170.1;226.2/114.0	120	15;20
259	莠灭净	ametryn	5.85	228.2/186.0	228.2/186.0;228.2/68.0	120	20;35
260	木草隆	tebuthiuron	5.30	229.2/172.2	229.2/172.2;229.2/116.0	120	15;20
261	草达津	trietazine	12.00	230.1/202.0	230.1/202.0;230.1/132.1	160	20;20
262	另丁津	sebutylazine	8.65	230.1/174.1	230.1/174.1;230.1/104	12	15;30
263	畜虫避	dibutyl succinate	14.80	231.1/101.0	231.1/101.0;231.1/157.1	60	1;10
264	牧草胺	tebutam	13.04	234.2/91.1	234.2/91.1;234.2/192.2	120	20;15
265	久效威亚砷	thiofanox-sulfoxide	4.08	235.1/104.0	235.1/104.0;235.1/57	60	5;20
266	杀螟丹	cartap hydrochloride	5.90	238.0/73.0	238.0/73.0;238.0/150.0	100	30;10
267	虫螨畏	methacrifos	10.03	241.0/209.0	241.0/209.0;241.0/125.0	60	5;20
268	咪唑嗪	triazoxide	5.66	248.0/68.0	248.0/68.0;248.0/95.0	100	35;25
269	虫线磷	thionazin	8.84	249.1/97.0	249.1/97.0;249.1/193.0	80	30;10
270	利谷隆	linuron	9.84	249.0/160.1	249.0/160.1;249.0/182.1	100	15;15
271	庚虫磷	heptanophos	7.85	251.0/127.0	251.0/127.0;251.0/109.0	80	10;30
272	苄草丹	prosulfocarb	17.10	252.1/91.0	252.1/91.0;252.1/128.1	120	15;10
273	杀草净	dipropetryn	8.58	256.1/144.1	256.1/144.1;256.1/214.0	140	30;20
274	禾草丹	thiobencarb	15.80	258.1/125.0	258.1/125.0;258.1/89.0	80	20;55
275	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	5;15
276	甲草胺	alachlor	13.15	270.2/238.2	270.2/238.2;270.2/162.2	80	10;20
277	硫线磷	cadusafos	15.27	271.1/159.1	271.1/159.1;271.1/131	80	10;20
278	吡唑草胺	metazachlor	8.36	278.1/134.1	278.1/134.1;278.1/210.1	80	20;5
279	胺丙畏	propetamphos	13.60	282.1/138.0	282.1/138.0;282.1/156.1	80	15;10
280	特丁硫磷	terbufos	13.70	289.0/57.0	289.0/57.0;289.0/103.1	80	20;5
281	硅氟唑	simeconazole	11.00	294.2/70.1	294.2/70.1;294.2/135.1	120	15;15
282	三唑酮	triadimefon	11.88	294.2/69.0	294.2/69.0;294.2/197.1	100	20;15
283	甲拌磷砷	phorate sulfone	9.34	293.0/171.0	293.0/171.0;293/143.1	60	5;15
284	十三吗啉	tridemorph	14.00	298.3/130.1	298.3/130.1;298.3/57.1	160	25;35
285	苯噻酰草胺	mefenacet	11.60	299.1/148.1	299.1/148.1;299.1/120.1	100	15;25
286	丁苯吗琳	fenpropimorph	9.10	304.0/147.2	304.0/147.2;304.0/130.0	120	30;30
287	戊唑醇	tebuconazole	12.44	308.2/70.0	308.2/70.0;308.2/125.0	100	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
288	异丙乐灵	isopropalin	19.05	310.2/225.7	310.2/225.7;310.2/207.7	120	15;20
289	氟苯嘧啶醇	nuarimol	9.20	315.1/252.1	315.1/252.1;315.1/81.0	120	25;30
290	乙嘧酚磺酸酯	bupirimate	9.52	317.2/166.0	317.2/166.0;317.2/272.0	120	25;20
291	保棉磷	azinphos-methyl	10.45	318.1/125.0	318.1/125.0;318.1/160.0	80	15;10
292	丁基嘧啶磷	tebupirimfos	18.15	319.1/277.1	319.1/277.1;319.1/153.2	120	10;30
293	稻丰散	phenthoate	15.57	321.1/247.0	321.1/247.0;321.1/163.1	80	5;10
294	治螟磷	sulfotep	16.35	323.0/171.1	323.0/171.1;323.0/143.0	120	10;20
295	硫丙磷	sulprofos	18.40	323.0/219.1	323.0/219.1;323.0/247.0	120	15;10
296	苯硫磷	EPN	17.10	324.0/296.0	324.0/296.0;324.0/157.1	120	10;20
297	甲基吡啶磷	azamethiphos	6.05	325.0/183.0	325.0/183.0;325.0/139.0	80	15;25
298	烯唑醇	diniconazole	13.67	326.1/70.0	326.1/70.0;326.1/159.0	120	25;30
299	唑啶磺草胺	flumetsulam	4.95	326.1/129.0	326.1/129.0;326.1/262.1	120	30;20
300	纹枯脲	pencycuron	16.33	329.2/125.0	329.2/125.0;329.2/218.1	120	20;15
301	灭蚜磷	mecarbam	14.46	330.0/227.0	330.0/227.0;330.0/199.0	80	5;10
302	苯草酮	tralkoxydim	18.09	330.2/284.2	330.2/284.2;330.2/138.1	100	10;20
303	马拉硫磷	malathion	13.20	331.0/127.1	331.0/127.1;331.0/99.0	80	5;10
304	稗草畏	pyributicarb	18.26	331.1/181.1	331.1/181.1;331.1/108.0	120	10;20
305	吡啶硫磷	pyridaphenthion	12.32	341.1/189.2	341.1/189.2;341.1/205.2	120	20;20
306	硫双威	thiodicarb	6.55	355.1/88.0	355.1/88.0;355.1/163.0	^r 80	15;5
307	吡唑硫磷	pyraclofos	15.34	361.1/257.0	361.1/257.0;361.1/138.0	120	25;35
308	啉氧菌酯	picoxystrobin	15.40	368.1/145.0	368.1/145.0;368.1/205.0	80	20;5
309	四氟醚唑	tetraconazole	12.54	372.0/159.0	372.0/159.0;372.0/70.0	120	35;35
310	吡啶解草酯	mefenpyr-diethyl	16.80	373.0/327.0	373.0/327.0;373.0/160.0	80	15;35
311	丙溴磷	profenfos	16.74	373.0/302.9	373.0/302.9;373.0/345.0	120	15;10
312	百克敏	pyraclostrobin	16.04	388.0/163.0	388.0/163.0;388.0/194.0	120	20;10
313	烯酰吗啉	dimethomorph	16.04	388.1/165.1	388.1/165.1;388.1/301.1	120	25;20
314	噁噁菊酯	kadethrin	17.95	397.1/171.1	397.1/171.1;397.1/128.0	100	15;55
315	噁唑烟酸	thiazopyr	16.15	397.1/377.0	397.1/377.0;397.1/335.1	140	20;30
316	醚黄隆	cinosulfuron	6.53	414.1/183.1	414.1/183.1;414.1/157.1	120	10;20
317	吡啶磺隆	pyrazosulfuron-ethyl	17.20	415.1/182.1	415.1/182.1;415.1/369.1	120	15;10
318	磺草胺唑	metosulam	7.60	418.0/175.1	418.0/175.1;418.0/354.0	120	25;20
E 组							
319	4-氨基吡啶	4-aminopyridine	0.72	95.1/52.1	95.1/52.1;95.1/78.1	120	25;5
320	矮壮素	chlormequat	0.72	122.1/58.1	122.1/58.1;122.1/63.1	100	35;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
321	灭多威	methomyl	3.76	163.2/88.1	163.2/88.1;163.2/106.1	80	5;10
322	咯嗪酮	pyroquilon	5.87	174.1/117.1	174.1/117.1;174.1/132.2	140	35;25
323	麦穗灵	fuberidazole	3.66	185.2/157.2	185.2/157.2;185.2/92.1	120	20;25
324	丁脘酰胺	isocarbamid	4.35	186.2/87.1	186.2/87.1;186.2/130.1	80	20;5
325	丁腈威	butocarboxim	5.30	213.0/75.1	213.0/75.1;213.0/156.1	100	15;5
326	杀虫脒	chlordimeform	4.13	197.2/117.1	197.2/117.1;197.2/89.1	120	25;50
327	霜脲氰	cymoxanil	4.95	199.1/111.1	199.1/111.1;199.1/128.1	80	20;15
328	灭害威	aminocarb	0.75	209.3/137.1	209.3/137.1;209.3/152.1	100	20;10
329	甲菌定	dimethirimol	4.20	210.2/71.1	210.2/71.1;210.2/140.0	120	25;20
330	氧乐果	omethoate	0.75	214.1/125.0	214.1/125.0;214.1/183.0	80	20;5
331	乙氧喹啉	ethoxyquin	7.19	218.2/174.2	218.2/174.2;218.2/160.1	120	30;35
332	敌敌畏	dichlorvos	4.20	222.9/109.0	222.9/109.0;222.9/79.0	120	15;30
333	涕灭威砜	aldicarb sulfone	3.50	223.1/76.0	223.1/76.0;223.1/148.0	80	5;5
334	二氧威	dioxacarb	4.70	224.1/123.1	224.1/123.1;224.1/167.1	80	15;5
335	苄基腺嘌呤	benzyladenine	4.16	226.1/91.1	226.1/91.1;226.1/148.0	140	20;15
336	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
337	乙硫苯威亚砜	ethiofencarb-sulfoxide	3.95	242.2/107.1	242.2/107.1;242.2/185.1	80	15;5
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	甲基内吸磷砜	demeton-s-methyl sulfone	3.96	263.1/169.1	263.1/169.1;263.1/125.0	80	15;20
341	苯锈定	fenpropidin	8.96	274.0/147.1	274.0/147.1;274.0/86.1	160	25;25
342	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
343	对氧磷	paraoxon-ethyl	8.00	276.2/220.1	276.2/220.1;276.2/94.1	100	10;40
344	乙烯菌核利	vinclozolin	14.66	286.1/242.0	286.1/242.0;286.1/145.1	100	5;45
345	烯效唑	uniconazole	11.69	292.1/70.1	292.1/70.1;292.1/125.1	120	30;30
346	啶斑肟	pyrifenox	7.42	295.0/93.1	295.0/93.1;295.0/163.0	120	15;15
347	异氯磷	dicapthon	14.47	298.0/125.0	298.0/125.0;298.0/266.1	80	10;10
348	四螨嗪	clofentezine	16.18	303.0/138.0	303.0/138.0;303.0/156.0	100	25;25
349	氟草敏	norflurazon	8.08	304.0/284.0	304.0/284.0;304.0/160.1	140	25;35
350	野麦畏	triallate	18.52	304.0/143.0	304.0/143.0;304.0/86.1	120	25;15
351	福美锌	ziram	7.32	305.0/185.9	305.0/185.9;305.0/88.1	120	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
352	苯氧喹啉	quinoxxyphen	17.05	308.0/197.0	308.0/197.0;308.0/272.0	180	35;35
353	倍硫磷砜	fenthion sulfone	8.71	311.1/125.0	311.1/125.0;311.1/109	140	15;20
354	氟咯草酮	flurochloridone	13.34	312.2/292.2	312.2/292.2;312.2/53.1	140	25;30
355	酞酸苯甲基 丁酯	phthalic acid, ben- zyl butyl ester	17.34	313.2/91.1	313.2/91.1;313.2/149.0; 313.2/205.1	80	10;10;5
356	氯唑磷	isazofos	13.67	314.1/162.1	314.1/162.1;314.1/120.0	100	10;35
357	除线磷	dichlofenthion	18.15	315.0/259.0	315.0/259.0;315.0/287.0	100	10;5
358	特丁硫磷砜	terbufos sulfone	12.57	321.2/171.1	321.2/171.1;321.2/143.0	80	5;15
359	敌乐胺	dinitramine	15.80	323.1/305.0	323.1/305.0;323.1/247.0	120	10;15
360	毒壤磷	trichloronat	18.98	333.1/304.9	333.1/304.9;333.1/161.8	100	10;45
361	苜呋菊酯	resmethrin	12.35	339.2/171.1	339.2/171.1;339.2/143.1	80	10;25
362	啶酰菌胺	boscalid	12.20	343.2/307.2	343.2/307.2;343.2/271.0	140	20;35
363	甲氧菊酯	fenpropathrin	19.00	350.2/125.2	350.2/125.2;350.2/97.0	120	5;20
364	噻螨酮	hexythiazox	18.23	353.1/168.1	353.1/168.1;353.1/228.1	120	20;10
365	啉啉醚	pyrimidifen	13.69	378.2/184.1	378.2/184.1;378.2/150.2	140	15;40
366	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
367	反式氯菊酯	trans-permethin	21.00	391.3/149.1	391.3/149.1;391.3/167.1	100	10;10
368	吡草啉	pyrazoxyfen	14.30	403.2/91.1	403.2/91.1;403.2/105.1; 403.2/139.1	140	25;20;20
369	啉唑啉	flubenzimine	14.48	417.0/397.0	417.0/397.0;417.0/167.1	100	10;25
370	Z-氯氟菊酯	zeta cypermethrin	20.45	433.3/416.2	433.3/416.2;433.3/191.2	100	5;10
371	氟吡乙禾灵	haloxyfop-2- ethoxyethyl	17.65	434.1/316.0	434.1/316.0;434.1/288.0; 434.1/91.2	120	15;20;45
372	氟胺氟菊酯	tau-fluvalinate	19.58	503.2/181.2	503.2/181.2;503.2/208.1	80	25;15
F 组							
373	叔丁基胺	tert-butylamine	0.65	74.1/46.0	74.1/46.0;74.1/56.8	120	5;5
374	噁霉灵	hymexazol	2.65	100.1/54.1	100.1/54.1;100.1/44.2; 100.1/28.0	100	10;15;15
375	矮壮素氯化物	chlormequat chloride	0.69	122.1/58.1	122.1/58.1;122.1/63.0	120	30;20
376	邻苯二甲酰 亚胺	phthalimide	0.74	148.0/130.1	148.0/130.1;148.0/102.0	100	10;25
377	甲氧磷	dimefox	3.88	155.1/110.1	155.1/110.1;155.1/135.0	120	20;10
378	二苯胺	diphenylamin	13.06	170.2/93.1	170.2/93.1;170.2/152.0	120	30;30
379	1-萘基乙酰胺	1-naphthyl acetamide	5.30	186.2/141.1	186.2/141.1;186.2/115.1	100	15;45

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
380	脱乙基莠去津	atrazine-desethyl	4.43	188.2/146.1	188.2/146.1;188.2/104.1	120	10;20
381	2,6-二氯苯甲酰胺	2,6-dichloro-benzamide	3.85	190.1/173.0	190.1/173.0;190.1/145.0	100	20;30
382	涕灭威	aldicarb	5.42	213.0/89.0	213.0/89.0;213.0/116.0	100	30;10
383	邻苯二甲酸二甲酯	dimethyl phthalate	3.50	217.0/86.0	217.0/86.0;217.0/156.0	100	15;20
384	西玛通	simeton	3.94	198.2/100.1	198.2/100.1;198.2/128.2	120	25;20
385	呋草胺	dinotefuran	3.06	203.3/129.2	203.3/129.2;203.3/87.1	80	5;10
386	克草敌	pebulate	16.05	204.2/72.1	204.2/72.1;204.2/128.0	100	10;10
387	蔬果磷	dioxabenzofos	10.15	217.0/77.1	217.0/77.1;217.0/107.1	100	40;30
388	杀线威	oxamyl	3.46	241.0/72.0	241.0/72.0;242.0/121.0	120	15;10
389	甲基苯噻隆	methabenzthiazuron	6.80	222.2/165.1	222.2/165.1;222.2/149.9	100	15;35
390	丁酮砜威	butoxycarboxim	3.30	223.2/63.0	223.2/63.0;223.2/106.1	80	10;5
391	甲基内吸磷亚砜	demeton-s-methyl sulfoxide	3.42	247.1/109.0	247.1/109.0;247.1/169.1	80	20;10
392	硫环磷	phosfolan	4.95	256.2/140.0	256.2/140.0;256.2/228.0	100	25;10
393	氧倍硫磷	fenthion oxon	8.15	263.2/230.0	263.2/230.0;263.2/216.0	100	10;20
394	萘丙胺	napropamide	12.45	272.2/171.1	272.2/171.1;272.2/129.2	120	15;15
395	杀螟硫磷	fenitrothion	13.60	278.1/125.0	278.1/125.0;278.1/246.0	140	15;15
396	酞酸二丁酯	phthalic acid, dibutyl ester	17.50	279.2/149.0	279.2/149.0;279.2/121.1	80	10;45
397	腐霉利	procymidone	13.33	284.0/256.0	284.0/256.0;284.0/145.0	140	10;45
398	可灭隆	cumyluron	11.70	303.3/185.1	303.3/185.1;303.3/125.0	100	5;45
399	甲氧咪草烟	imazamox	3.00	304.2/260.0	304.2/260.0;304.2/186.0	100	5;40
400	亚胺硫磷	phosmet	11.14	318.0/160.1	318.0/160.1;318.0/133.0	80	10;35
401	皮蝇磷	ronnel	17.70	320.9/125.0	320.9/125.0;320.9/288.8	120	10;10
402	—	phthalic acid, bicyclohexyl ester	19.10	331.3/149.1	331.3/149.1;331.3/167.1; 331.3/249.0	80	10;5;5
403	吡蚜胺	tebufenpyrad	17.32	334.3/147.0	334.3/147.0;334.3/117.1	160	25;40
404	虫螨磷	chlorthiophos	18.58	361.0/305.0	361.0/305.0;361.0/225.0	100	10;15
405	氯亚胺硫磷	dialifos	17.15	394.0/208.0	394.0/208.0;394.0/187.0	100	5;20
406	鱼藤酮	rotenone	14.00	395.3/213.2	395.3/213.2;395.3/192.2	160	20;20
407	亚胺唑	imibenconazole	17.16	411.0/125.1	411.0/125.1;411.0/171.1; 41.01/342.0	120	25;15;10
408	噁草酸	propaquizafop	17.56	444.2/100.1	444.2/100.1;444.2/299.1	140	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
409	乳氟禾草灵	lactofen	18.23	479.1/344.0	479.1/344.0;479.1/223.0	120	15;35
410	2,3,4,5-四氯 苯胺	2,3,4,5-tetrachlo- roaniline	0.72	229.7/194.0	229.7/194.0;229.7/159.0	100	20;35
411	苯螨特	benzoximate	17.02	386.1/197.0	386.1/197.0;386.1/199.2	140	30;30
412	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
413	异丙草胺	propisochlor	15.00	284.0/224.0	284.0/224.0;284.0/212.0	80	5;15
414	氟硅菊酯	silaflluofen	20.80	412.0/91.0	412.0/91.0;412.0/72.1	100	40;30
415	乙氧苯草胺	etobenzanid	15.65	340.0/149.0	340.0/149.0;340.0/121.1	120	20;30
416	四唑砒草胺	fentrazamide	16.00	372.1/219.0	372.1/219.0;372.1/83.2	200	5;35
G 组							
417	茅草枯	dalapon	0.60	140.8/58.8	140.8/58.8;140.8/62.9	100	10;15
418	2-苯基苯酚	2-phenylphenol	9.78	169.0/115.0	169.0/115.0;169.0/93.0	140	35;20
419	3-苯基苯酚	3-phenylphenol	9.78	169.0/115.0	169.0/115.0;169/141.1	140	35;35
420	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
421	调果酸	cloprop	3.38	199.0/127.0	199.0/127.0;199.0/71.0	80	5;5
422	氯硝胺	dicloran	8.82	205.1/169.3	205.1/169.3;205.1/123.2	120	15;30
423	氯苯胺灵	chlorpropham	12.55	212.0/152.0	212.0/152;212.0/57.0	80	5;20
424	2-甲-4-氯丙酸	mecoprop	4.46	213.1/141.0	213.1/141.0;213.1/71.0	80	5;5
425	特草定	terbacil	5.94	215.1/159.0	215.1/159.0;215.1/73.0	120	10;40
426	2,4-滴	2,4-D	4.28	218.9/161.0	218.9/161.0;218.9/125.0	80	5;20
427	麦草畏	dicamba	0.75	219.0/175.0	219.0/175.0;219.0/145.0	60	5;5
428	二甲四氯丁酸	mcpb	5.53	227.0/141.0	227.0/141.0;227.0/105.0	80	10;25
429	地乐酯	dinoseb	6.13	239.0/193.0	239.0/193.0;239.0/163.0	120	22;25
430	草消酚	dinoterb	6.13	239.0/207.0	239.0/207.0;239.0/176.1	140	25;35
431	杀螨醇	chlorfenethol	11.81	265.0/96.7	265.0/96.7;265.0/152.7	120	15;5
432	溴苯腈	bromoxynil	4.07	274.0/79.1	274.0/79.1;274.0/167.0	120	40;40
433	灭幼脲	chlorobenzuron	14.05	306.9/154.0	306.9/154.0;306.9/125.9	100	5;20
434	氯霉素	chloramphenicolum	5.07	321.0/152.0	321.0/152.0;321.0/257.0	100	15;10
435	禾草灭	alloxydim-sodium	3.49	322.2/222.0	322.2/222.0;322.2/190.0	120	20;35
436	杀虫双	dimehypo	0.71	331.9/118.8	331.9/118.8;331.9/79.9	140	20;45
437	氟吡草胺钠	diflufenzopyr-sodi- um	0.72	333.1/160.0	333.1/160.0;333.1/134.0; 333.1/128.0	80	5;10;10

表 B.1 (续)

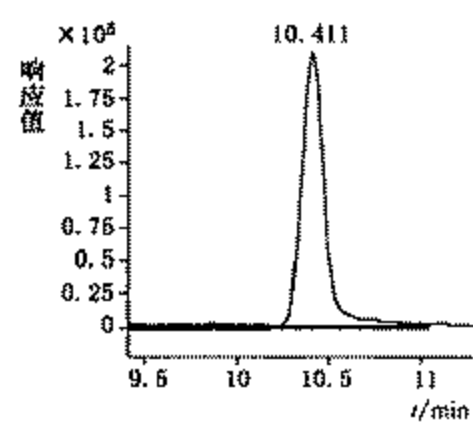
序号	中文名称	英文名称	保留 时间/ min	定量离子	定性离子	源内碎 裂电压/ V	碰撞 气能量/ V
438	乙酰磺胺对硝 基苯	sulfanitran	5.77	334.0/137.0	334.0/137.0;334.0/197.0	120	28;29
439	安磺灵	oryzalin	14.04	345.0/281.1	345/281.1;345.0/146.9; 345.0/78.1	120	10;10;5
440	三氟羧草醚	acifluorfen	6.40	360.0/316.0	360.0/316.0;360.0/194.9	80	5;25
441	碘苯腈	ioxynil	4.63	369.8/126.9	369.8/126.9;369.8/215.0	120	35;35
442	噁唑菌酮	famoxadone	16.52	373.0/282.0	373.0/282.0;373.0/328.9	120	20;15
443	吡氟酰草胺	diflufenican	17.30	393.1/329.1	393.1/329.1;393.1/272.0	100	10;10
444	氟吡唑	ethiprole	10.74	394.9/331.0	394.9/331.0;394.9/250.0	100	5;25
445	磺菌胺	flusulfamide	11.15	413.0/171.0	413.0/171.0;413.0/179.0	160	40;40
446	环丙嘧磺隆	cyclosulfamuron	7.60	420.2/238.8	420.2/238.8;420.2/265.4	100	10;5
447	氟磺胺草醚	fomesafen	7.13	437.0/195.1	437/195.1;437/222.1	140	40;40
448	氟啶胺	fluazinam	17.25	462.9/415.9	462.9/415.9;462.9/398.0	120	20;15
449	吡虫隆	fluazuron	18.19	504.2/305.1	504.2/305.1;504.2/156.0	120	11;13
450	氟丙菊酯	acrinathrin	19.60	540.0/345.0	540.0/345.0;540/372.0	120	15;5

附录 C
(资料性附录)

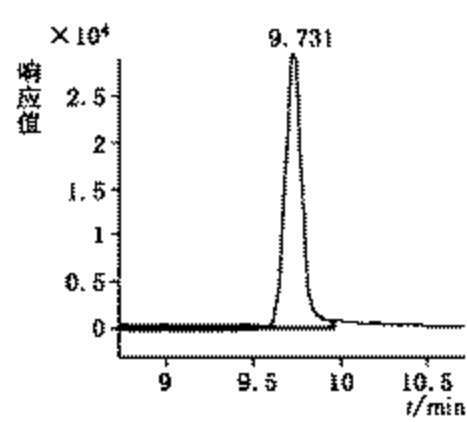
450 种农药及相关化学品多反应监测(MRM)色谱图

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:

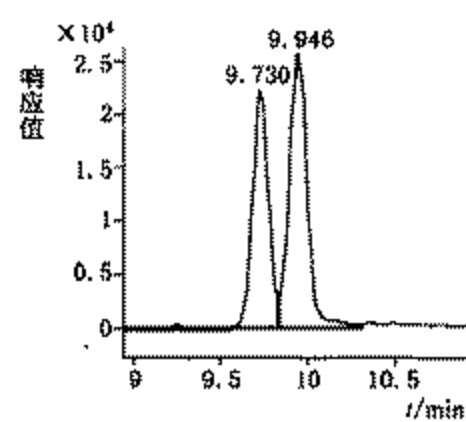
A 组



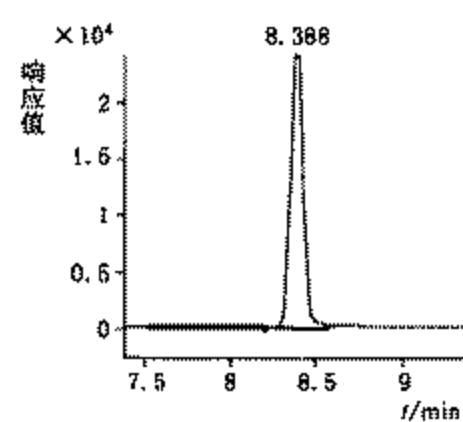
1. 苯胺灵
(propham)



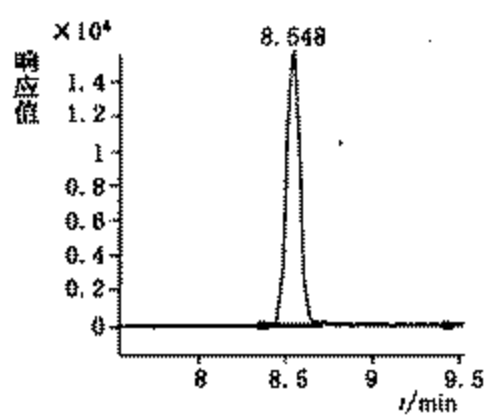
2. 异丙威
(isoprocarb)



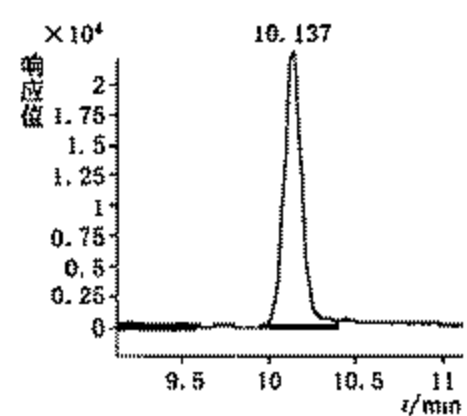
3. 3,4,5-混杀威
(3,4,5-trimethacarb)



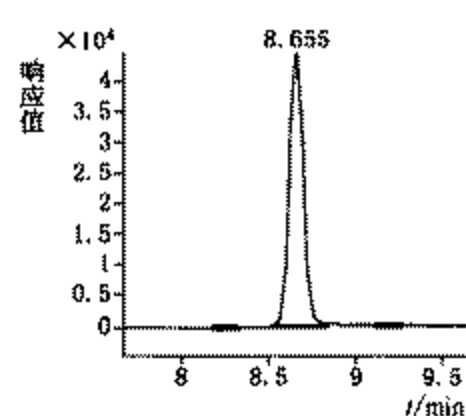
4. 环莠隆
(cycluron)



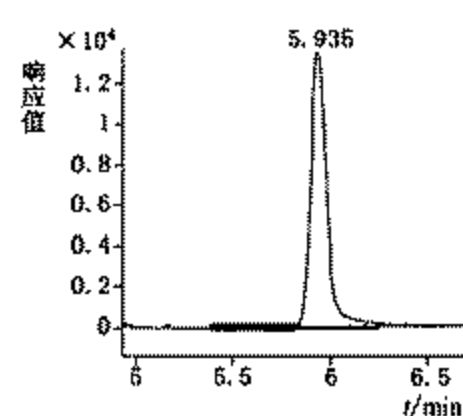
5. 甲萘威
(carbaryl)



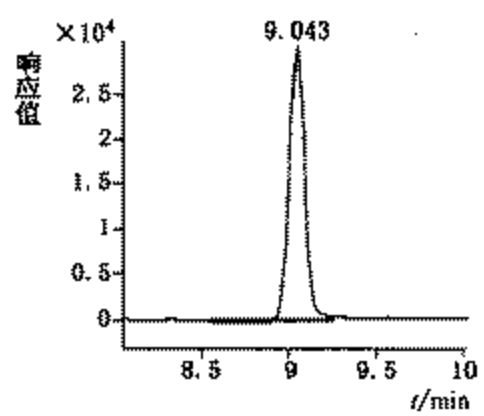
6. 毒草胺
(propachlor)



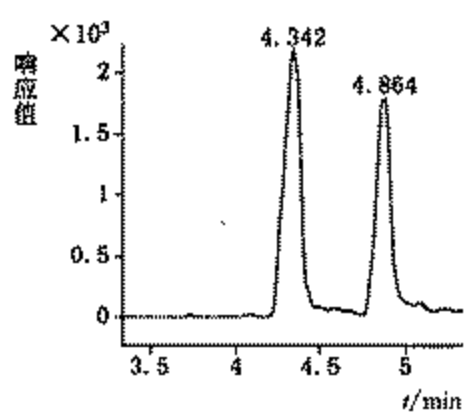
7. 吡咪唑
(rabenzazole)



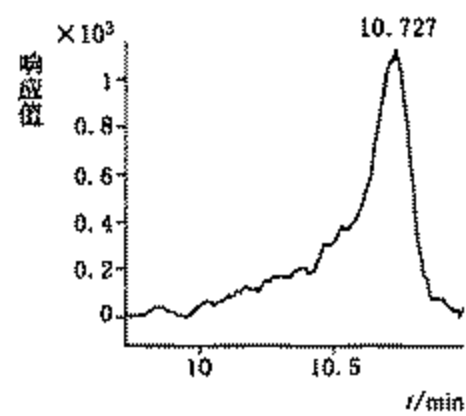
8. 西草净
(simetryn)



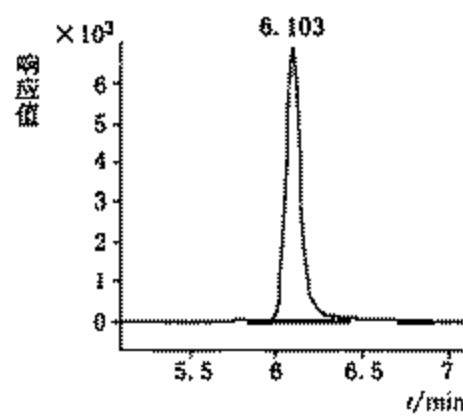
9. 绿谷隆
(monolinuron)



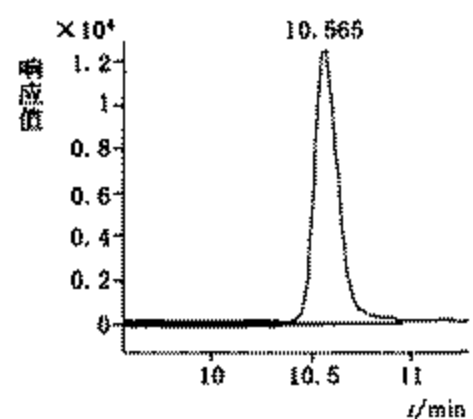
10. 速灭磷
(mevinphos)



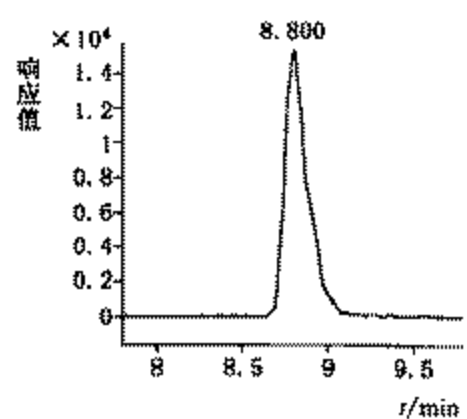
11. 叠氮津
(aziprotryne)



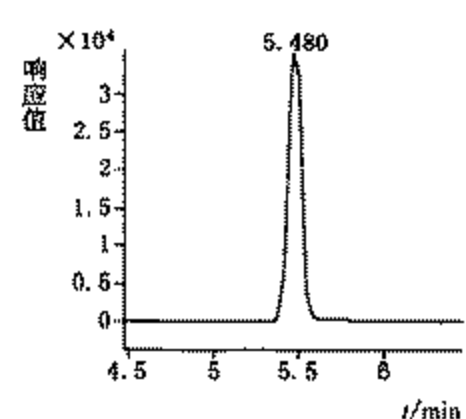
12. 密草通
(secbumeton)



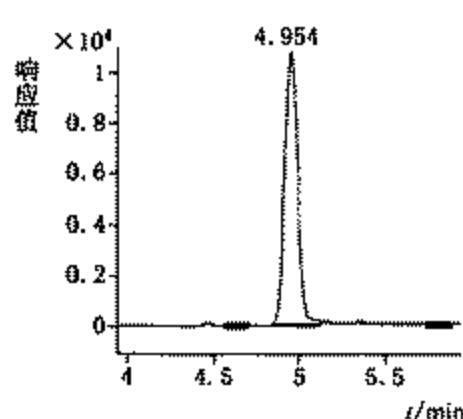
13. 啉菌磺胺
(cyprodinil)



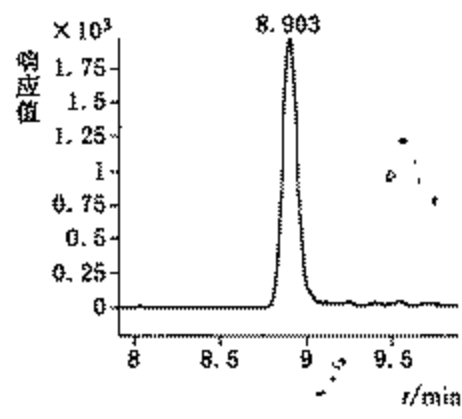
14. 播土隆
(buturon)



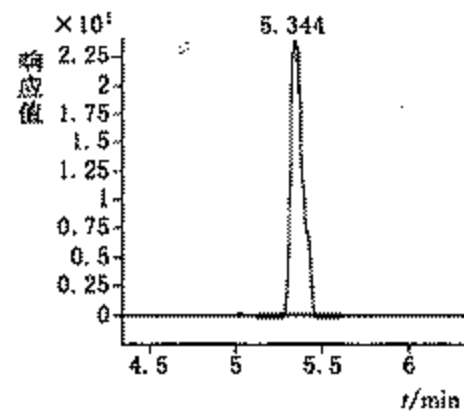
15. 双酰草胺
(carbetamide)



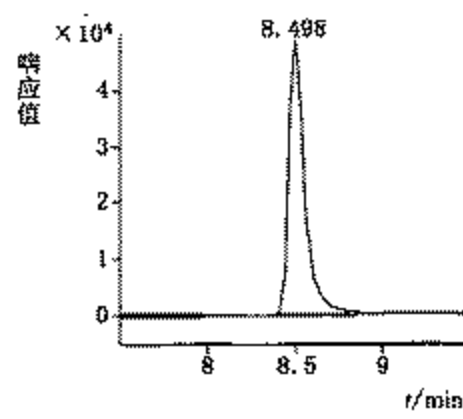
16. 抗蚜威
(pirimicarb)



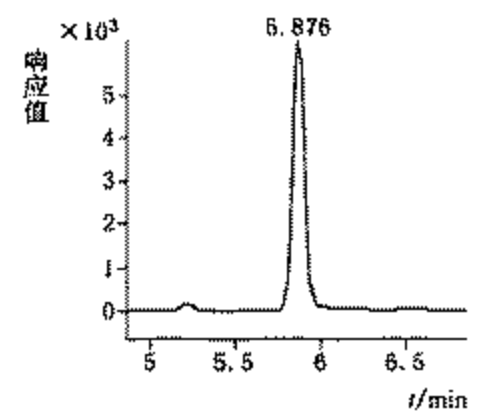
17. 异噁草松
(clomazone)



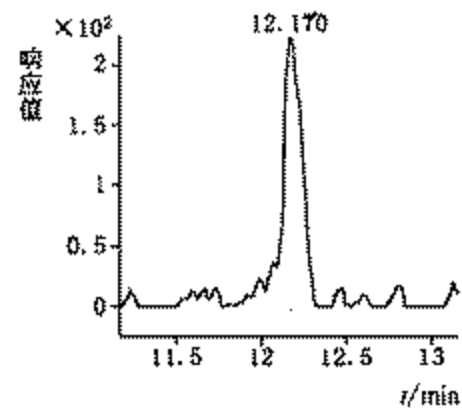
18. 氰草津
(cyanazine)



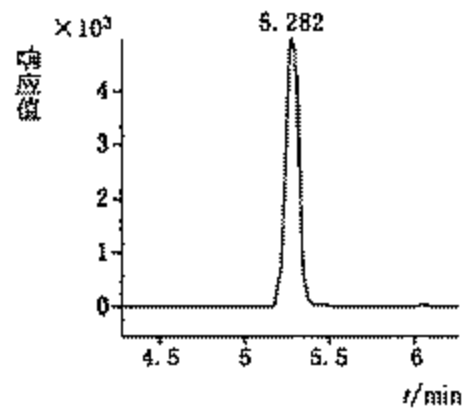
19. 扑草净
(prometryne)



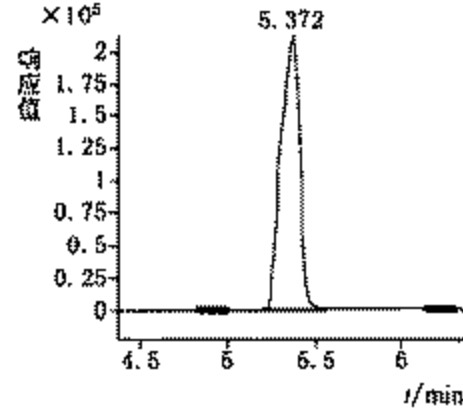
20. 甲基对氧磷
(paraoxon methyl)



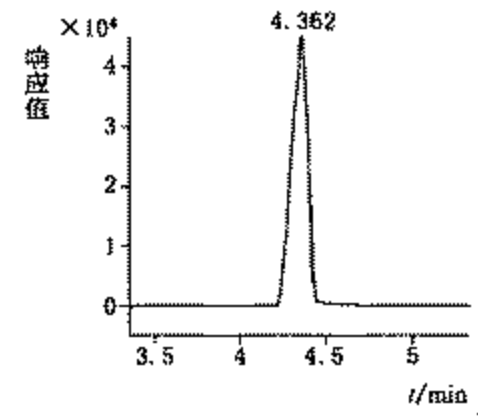
21. 4,4'-二氯二苯甲酮
(4,4'-dichlorobenzophenone)



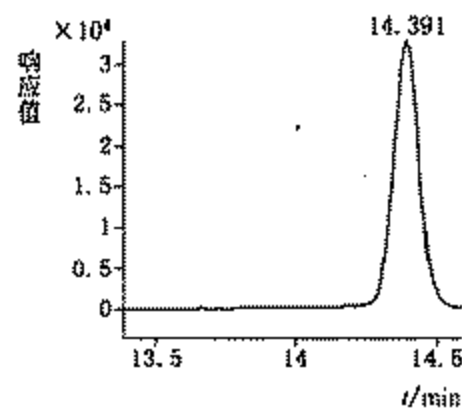
22. 噻虫啉
(thiacloprid)



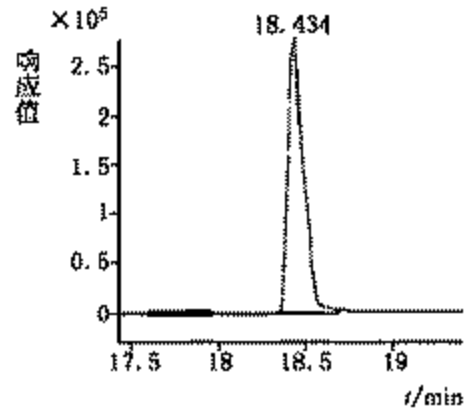
23. 吡虫啉
(imidacloprid)



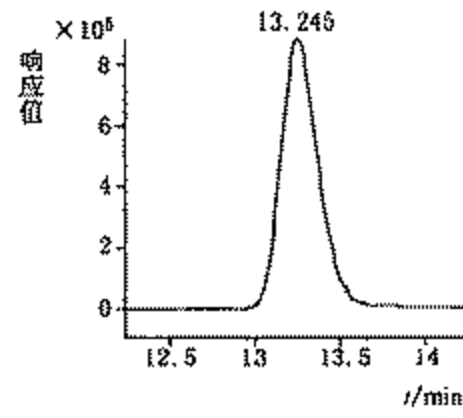
24. 磺噻隆
(ethidimuron)



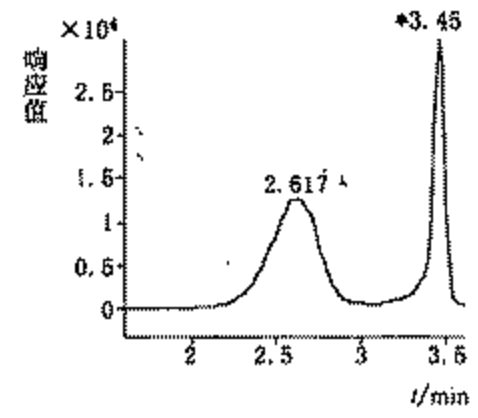
25. 丁噻草酮
(isomethiozin)



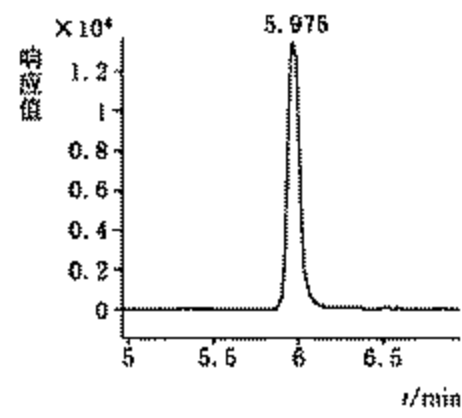
26. 燕麦敌
(diallate)



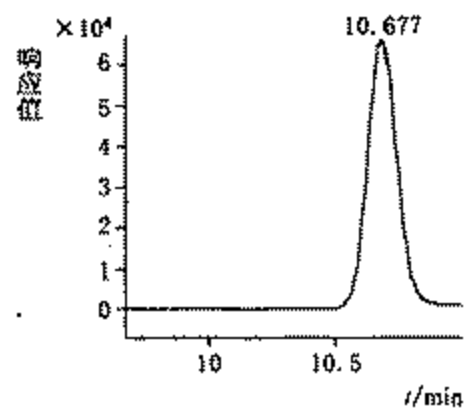
27. 乙草胺
(acetochlor)



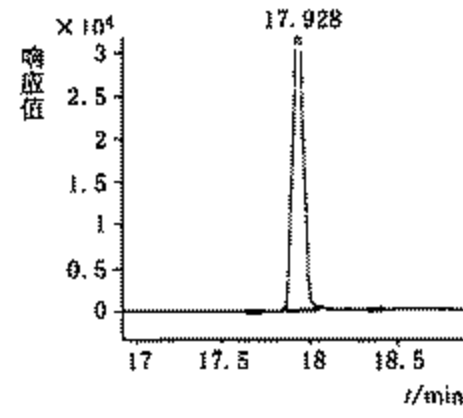
28. 烯啶虫胺
(nitenpyram)



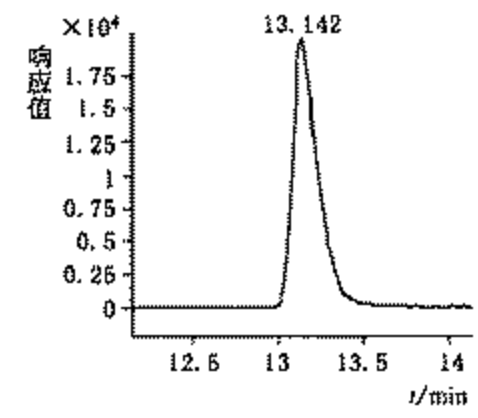
29. 盖草津
(methoprotryne)



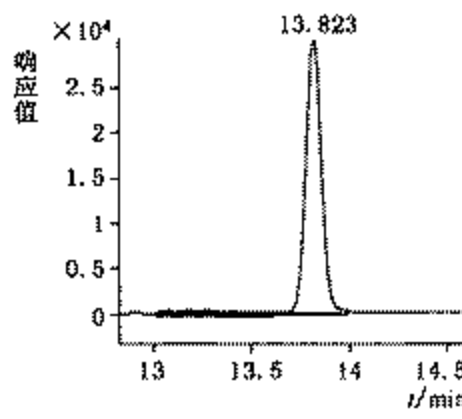
30. 二甲酚草胺
(dimethenamid)



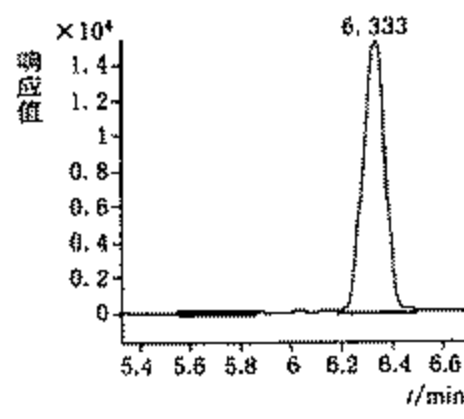
31. 特草灵
(terbucarb)



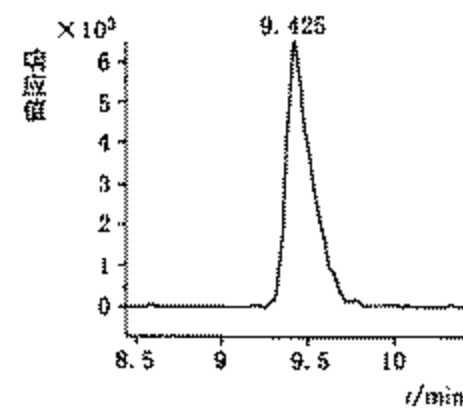
32. 戊菌唑
(penconazole)



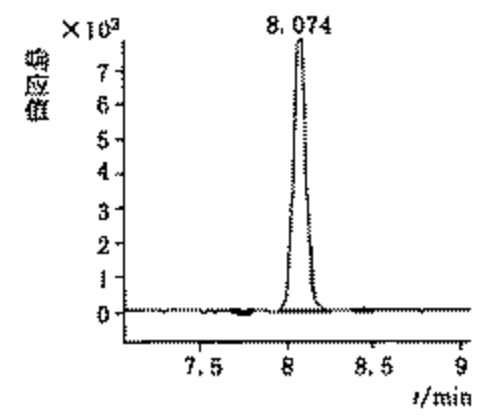
33. 腈菌唑
(myclobutanil)



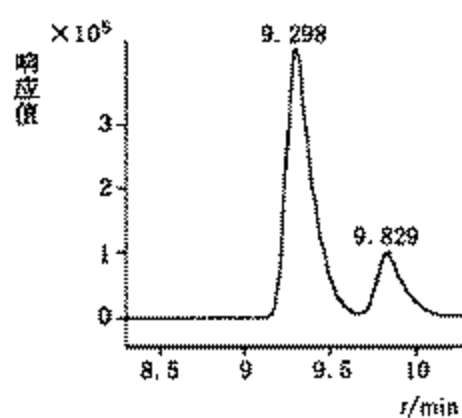
34. 咪唑乙烟酸
(imazethapyr)



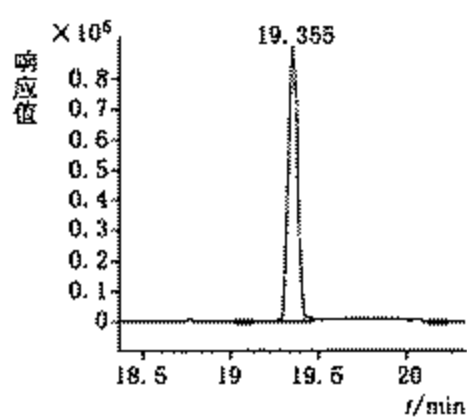
35. 多效唑
(paclobutrazol)



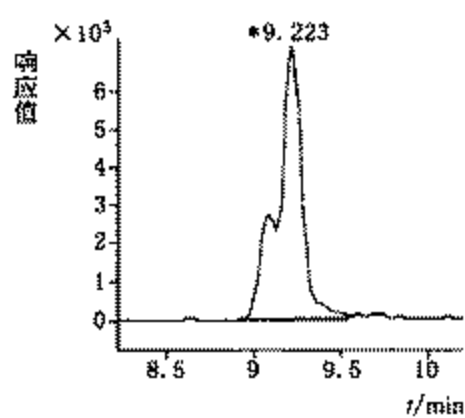
36. 倍硫磷亚砷
(fenthion sulfoxide)



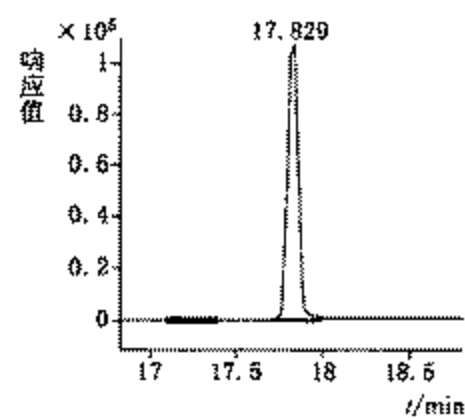
37. 三唑醇
(triadimenol)



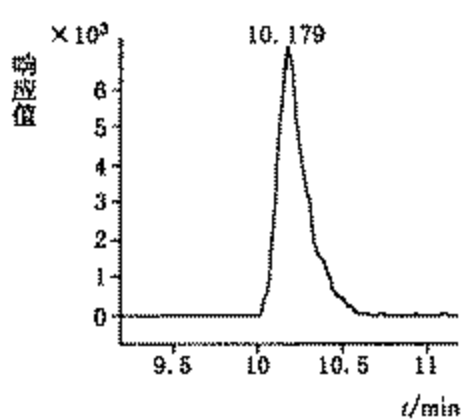
38. 仲丁灵
(butralin)



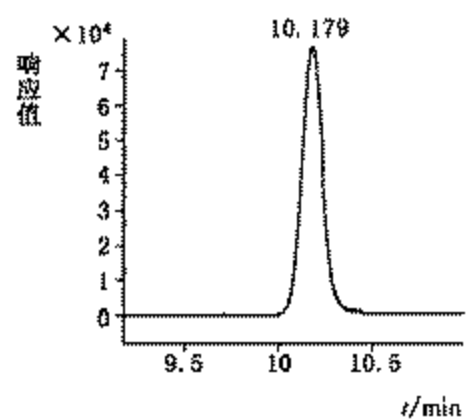
39. 螺噁茂胺
(spiroxamine)



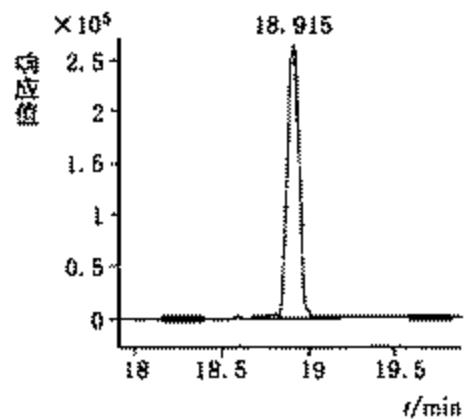
40. 甲基立枯磷
(tolclofos methyl)



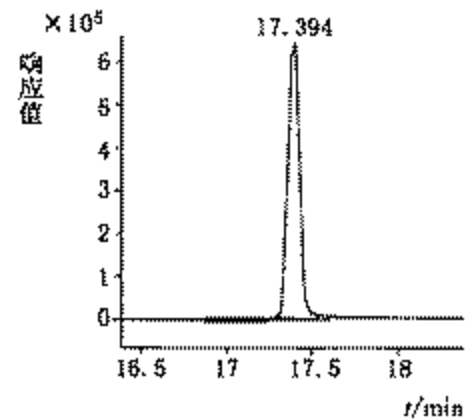
41. 甜菜胺
(desmedipham)



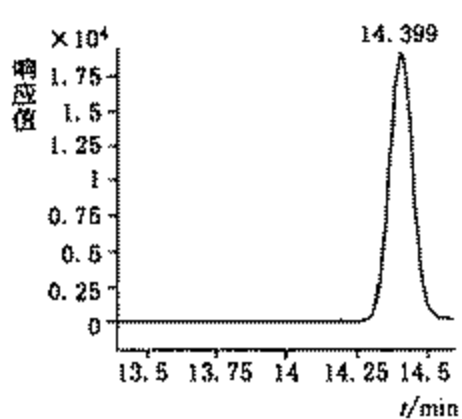
42. 杀扑磷
(methidathion)



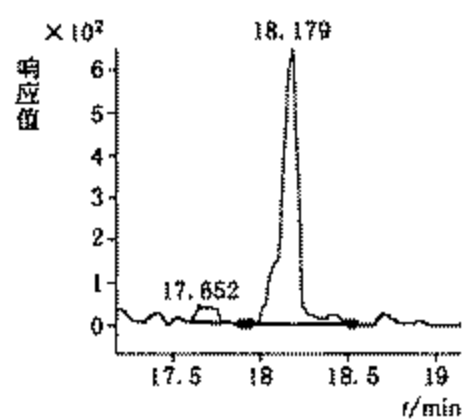
43. 烯丙菊酯
(allethrin)



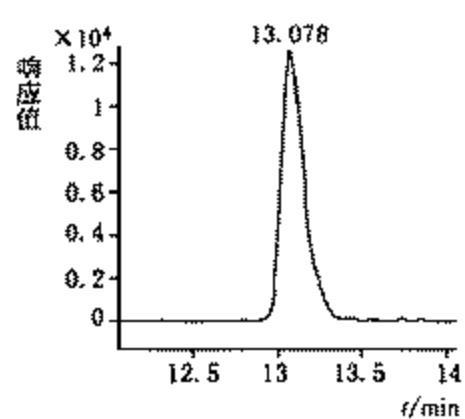
44. 二嗪磷
(diazinon)



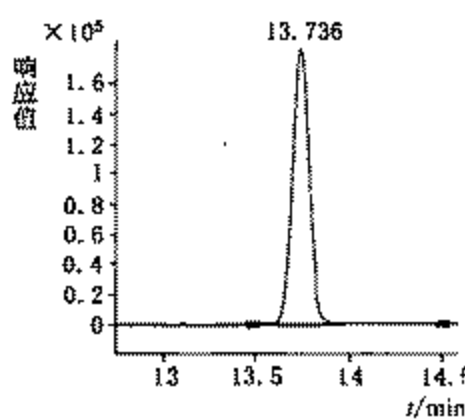
45. 敌瘟磷
(edifenphos)



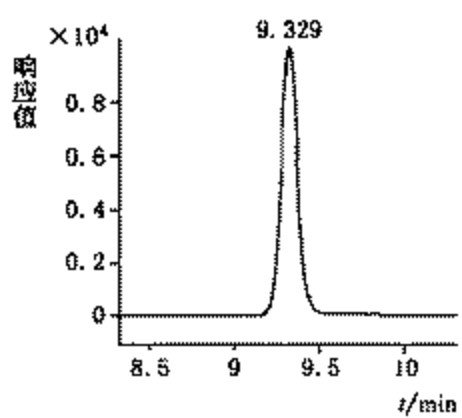
46. 丙草胺
(pretilachlor)



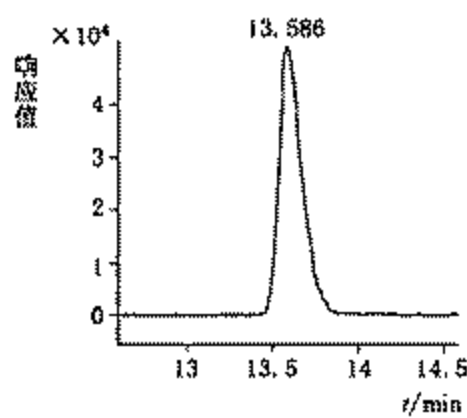
47. 氟硅唑
(flusilazole)



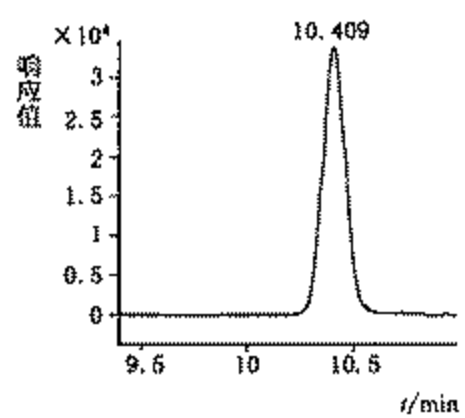
48. 丙森锌
(iprovalicarb)



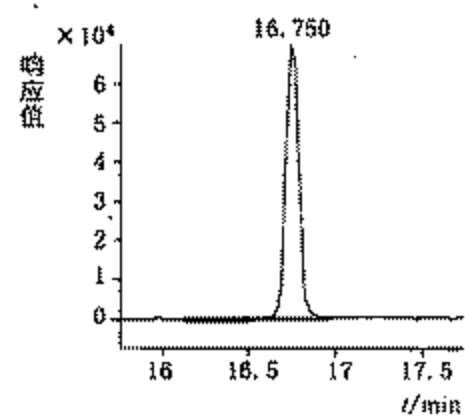
49. 麦锈灵
(benodanil)



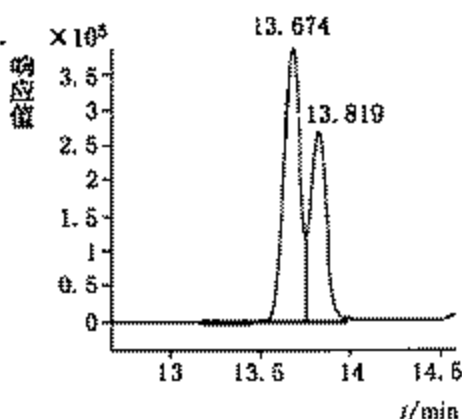
50. 氟酰胺
(flutolanil)



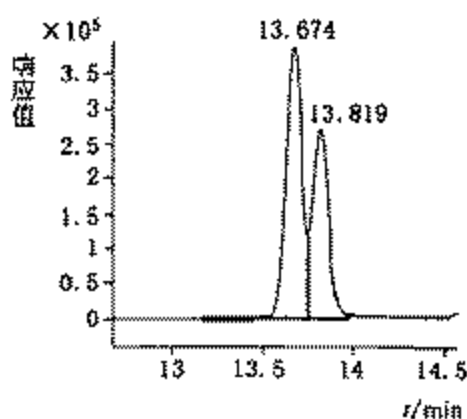
51. 氟磷磷
(famphur)



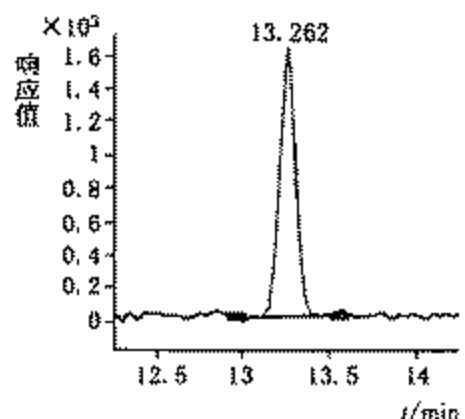
52. 苯霜灵
(benalxyyl)



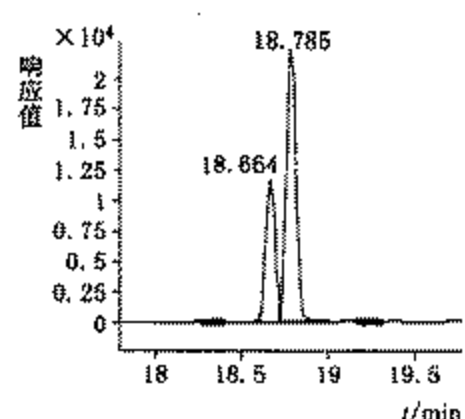
53. 苯氯三唑醇
(diclobutrazole)



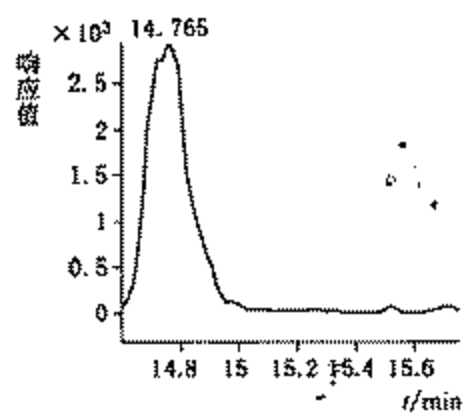
54. 乙环唑
(etaconazole)



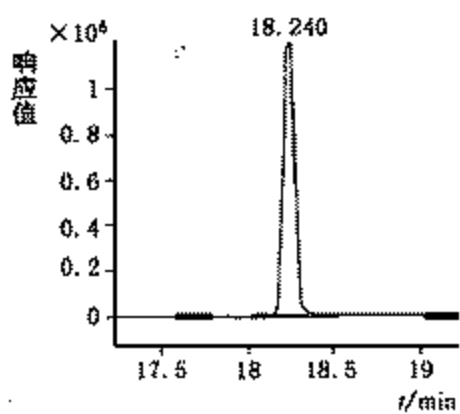
55. 氟苯嘧啶醇
(fenarimol)



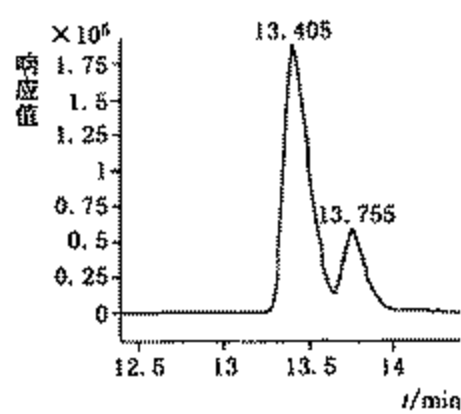
56. 胺菊酯
(tetramethirn)



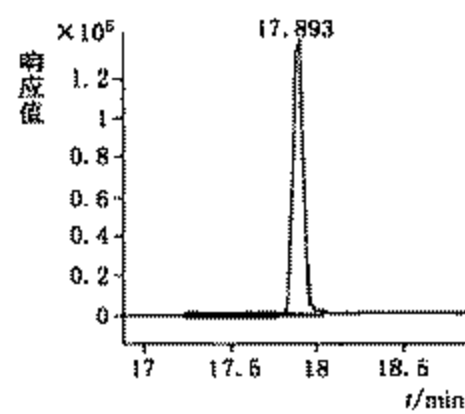
57. 抑菌灵
(dichlofluanid)



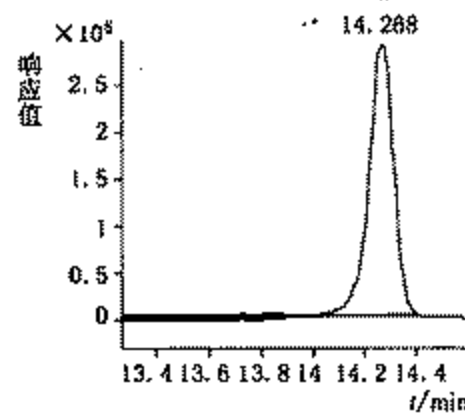
58. 解草酯
(cloquintocet mexyl)



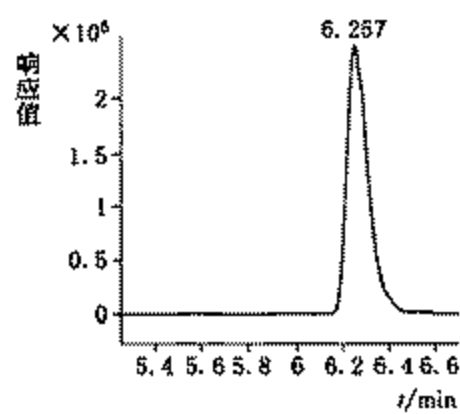
59. 联苯三唑醇
(bitertanol)



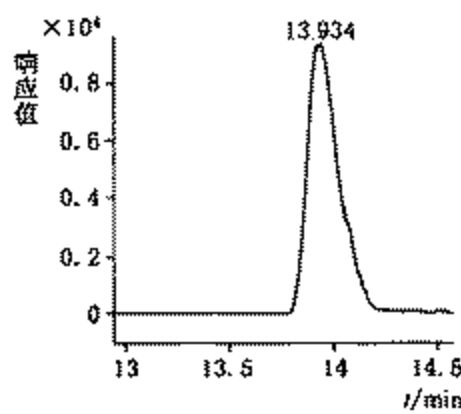
60. 甲基毒死蜱
(chlorprifos methyl)



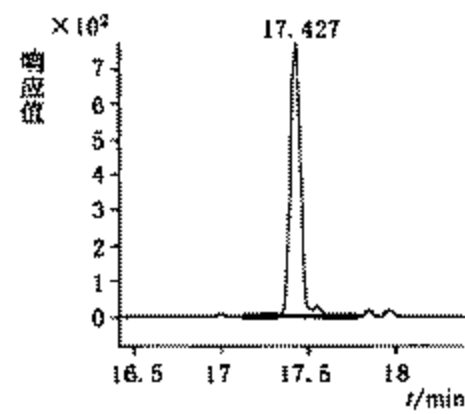
61. 吡嘧草酮
(tepraloxydim)



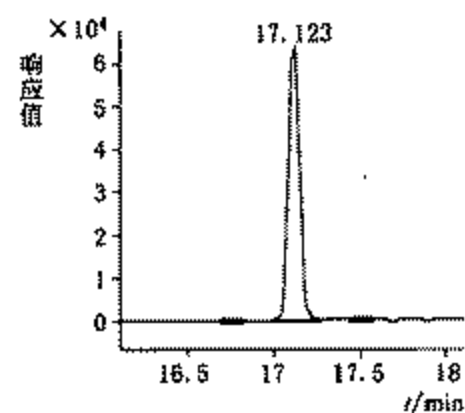
62. 甲基硫菌灵
(thiophanate methyl)



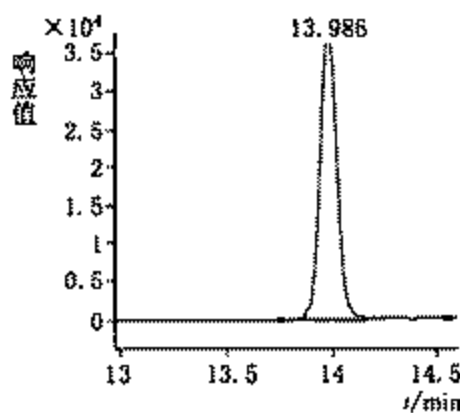
63. 益棉磷
(azinphos ethyl)



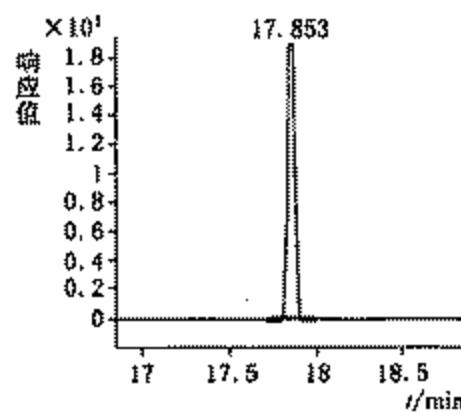
64. 炔草酸
(clodinafop propargyl)



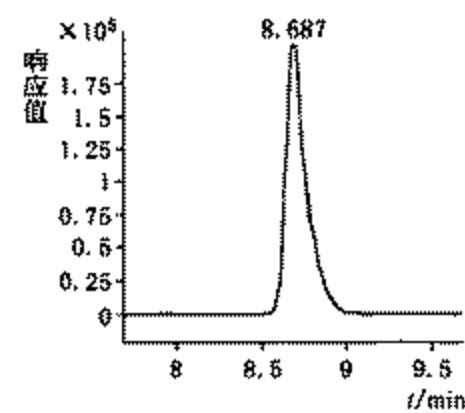
65. 杀铃脲
(triflumuron)



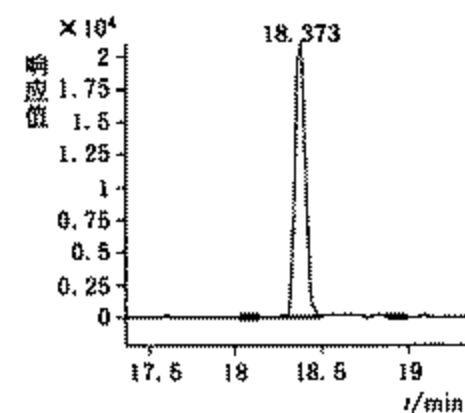
66. 异噁氟草
(isoxaflutole)



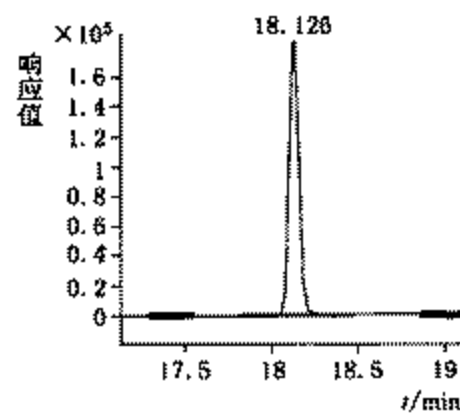
67. 莎稗磷
(anilofos)



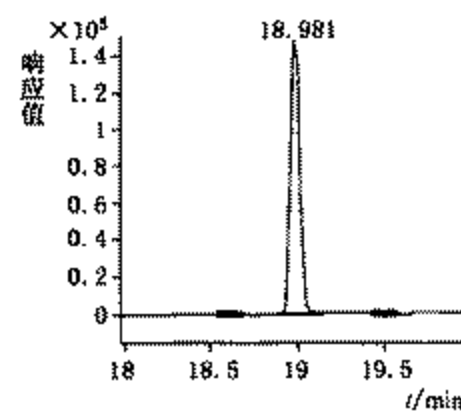
68. 硫菌灵
(thiophanate ethyl)



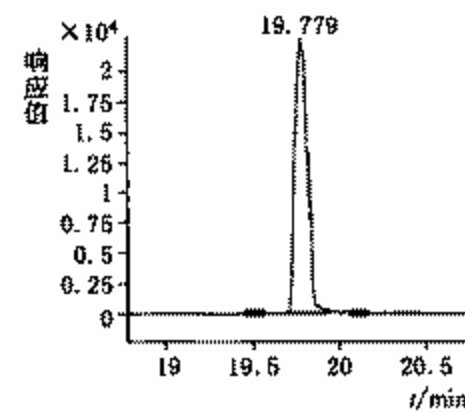
69. 啶禾灵
(quizalofop-ethyl)



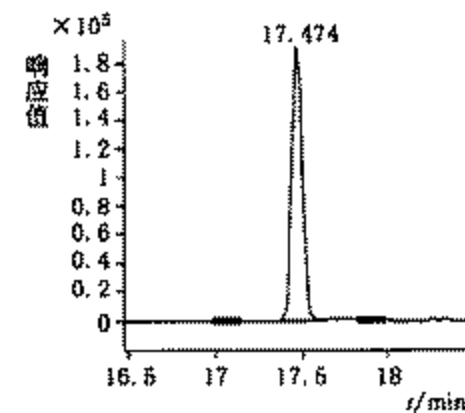
70. 精氟吡甲禾灵
(haloxyfop-methyl)



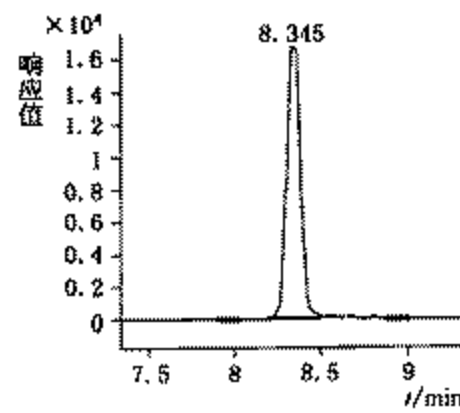
71. 精吡磺草隆
(fluazifop butyl)



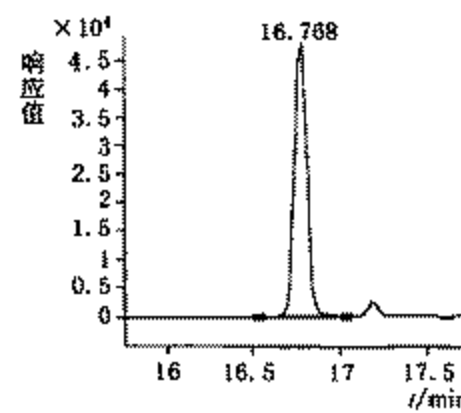
72. 乙基溴硫磷
(bromophos-ethyl)



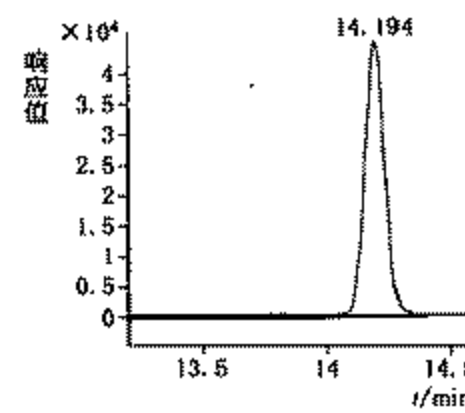
73. 地散磷
(bensulide)



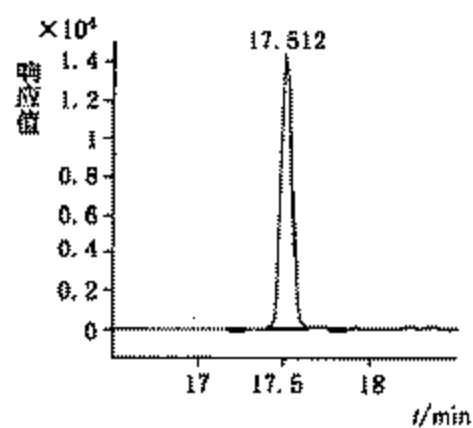
74. 醚苯磺隆
(triasulfuron)



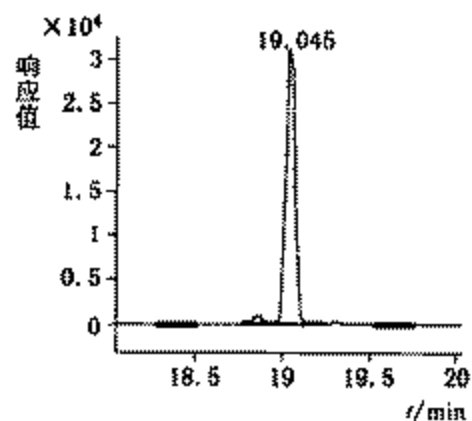
75. 溴苯烯磷
(bromfeninfos)



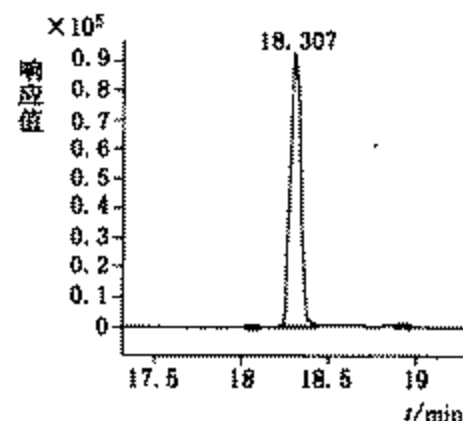
76. 嘧菌酯
(azoxystrobin)



77. 吡菌磷
(pyrazophos)

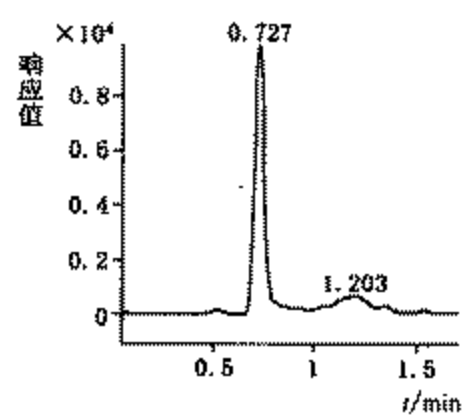


78. 氟虫脒
(flufenoxuron)

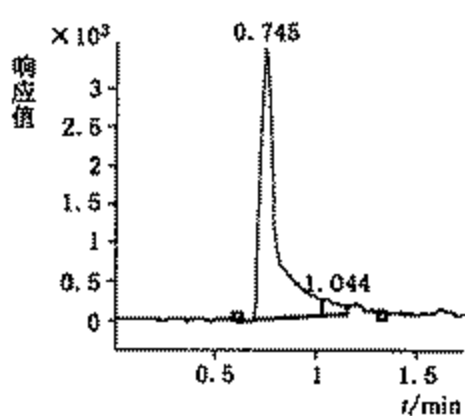


79. 茚虫威
(indoxacarb)

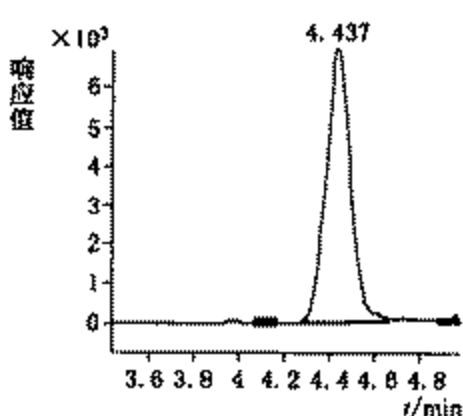
B组



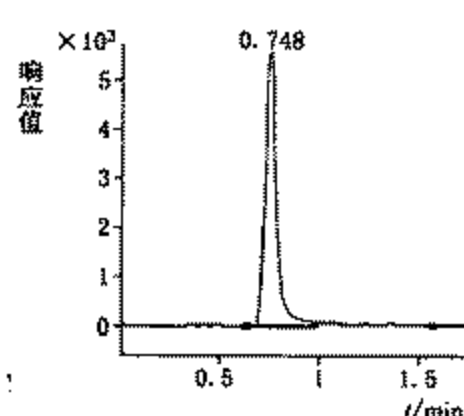
80. 丁酰肼
(daminozide)



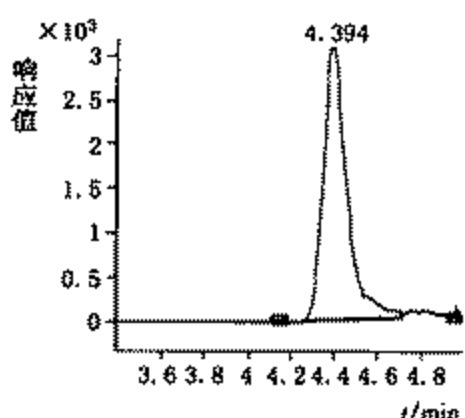
81. 烟碱
(nicotine)



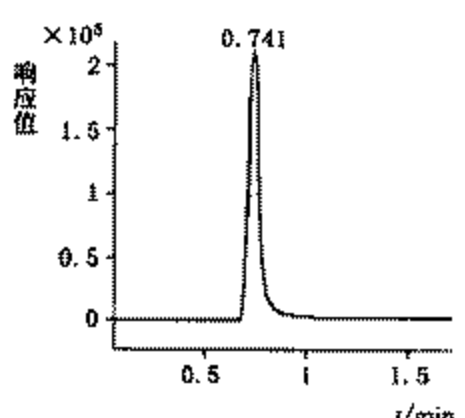
82. 非草隆
(fenuron)



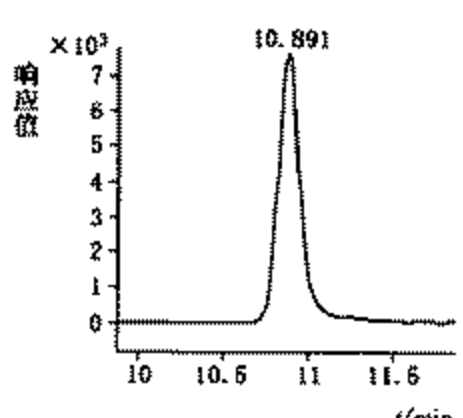
83. 灭蝇胺
(cyromazine)



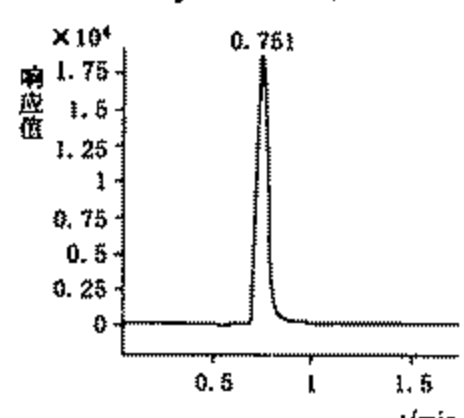
84. 鼠立克
(crimidine)



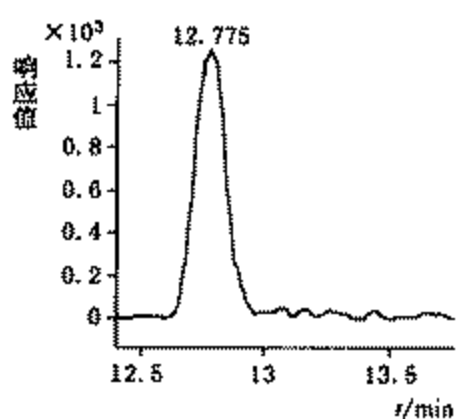
85. 乙酰甲胺磷
(acephate)



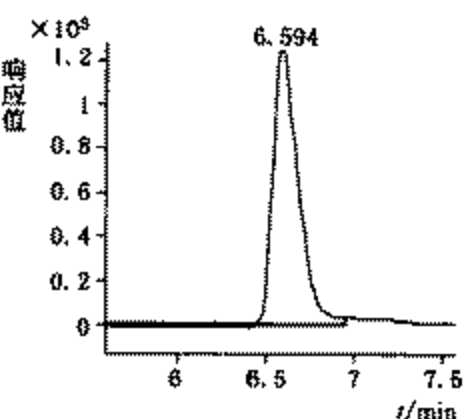
86. 禾草敌
(molinate)



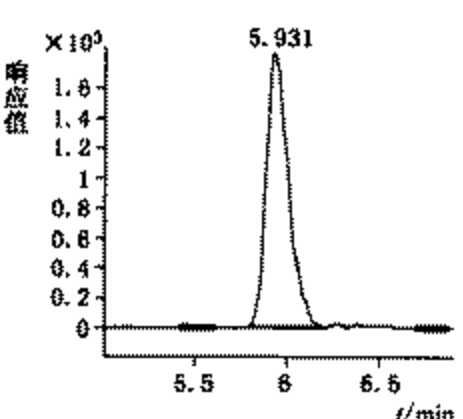
87. 多菌灵
(carbendazim)



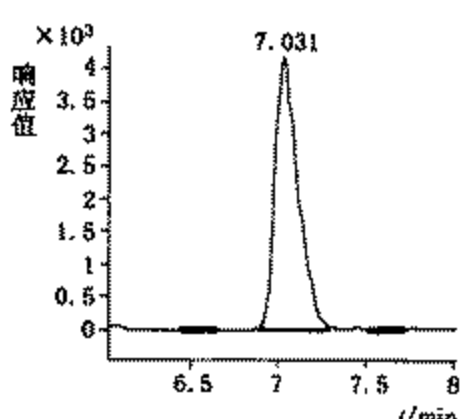
88. 6-氯-4-羟基-3-苯基吡嗪
(6-chloro-4-hydroxy-3-phenyl-pyridazin)



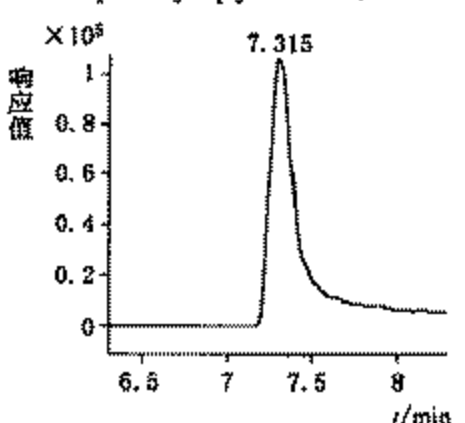
89. 残杀威
(propoxur)



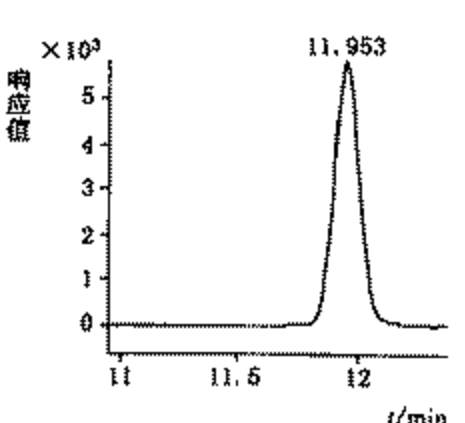
90. 异唑隆
(isouron)



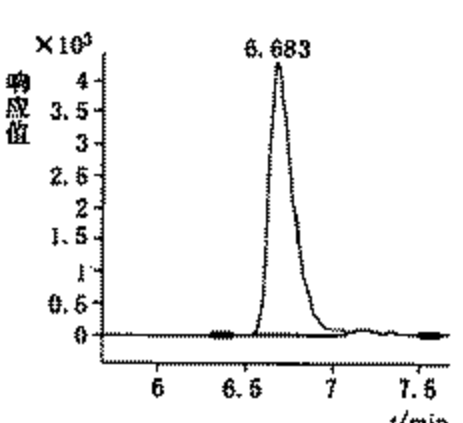
91. 绿麦隆
(chlorotoluron)



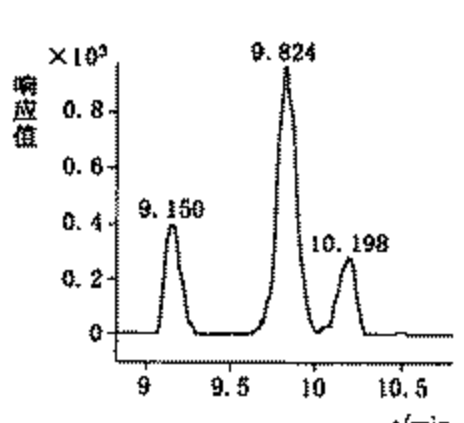
92. 久效威
(thiofanox)



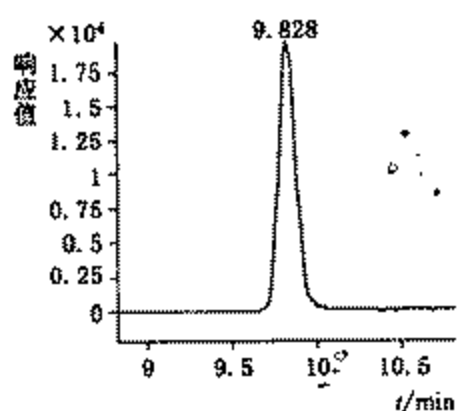
93. 氯草灵
(chlorbufam)



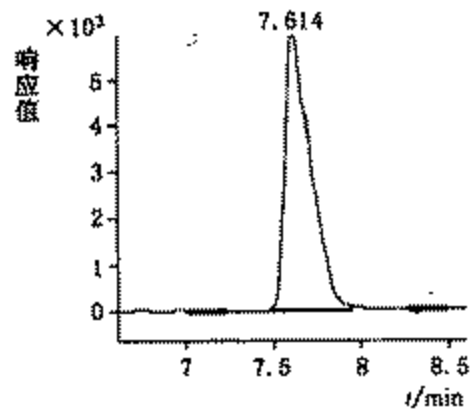
94. 噁虫威
(bendiocarb)



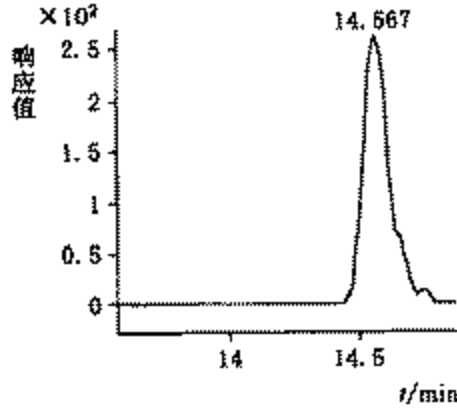
95. 扑灭津
(propazine)



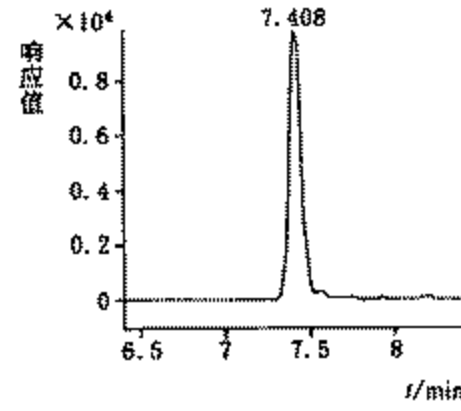
96. 特丁津
(terbuthylazine)



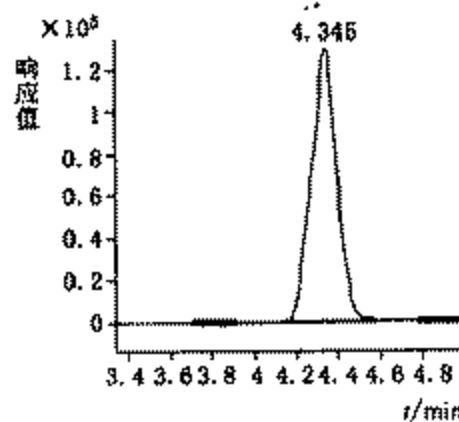
97. 敌草隆
(diuron)



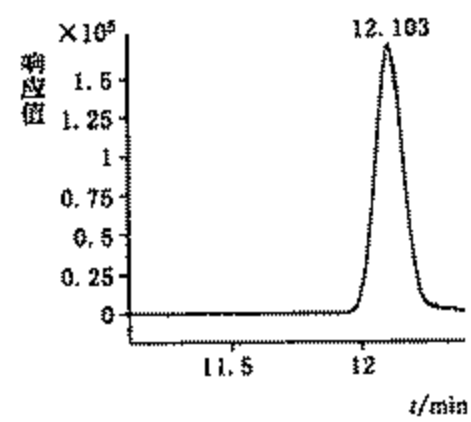
98. 氯甲硫磷
(chlormephos)



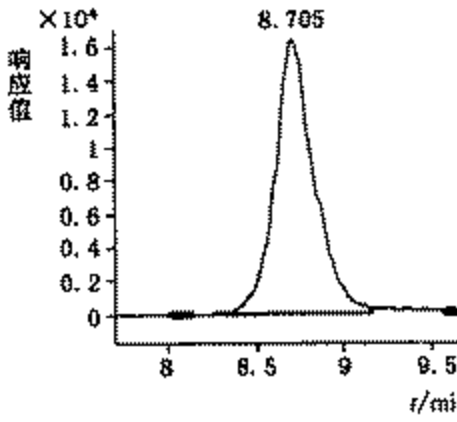
99. 萎锈灵
(carboxin)



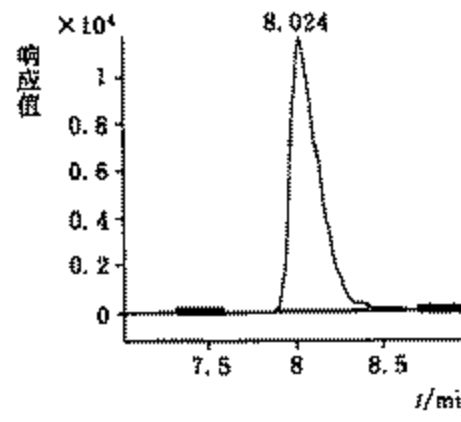
100. 噻虫胺
(clothianidin)



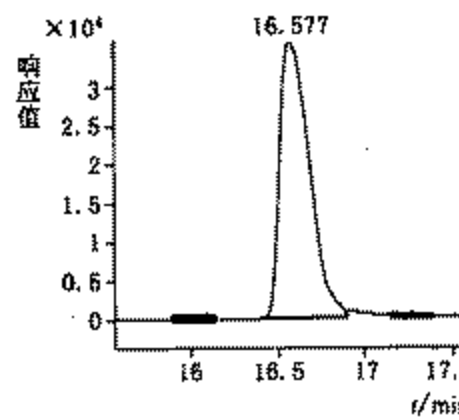
101. 拿草特
(pronamide)



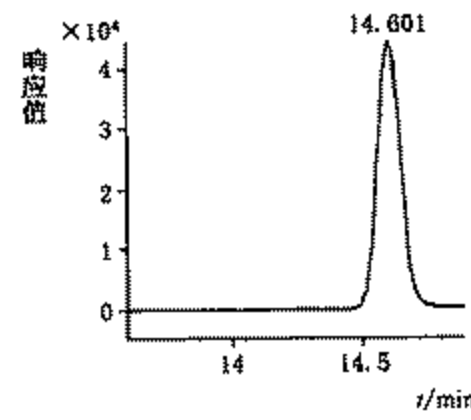
102. 二甲草胺
(dimethachloro)



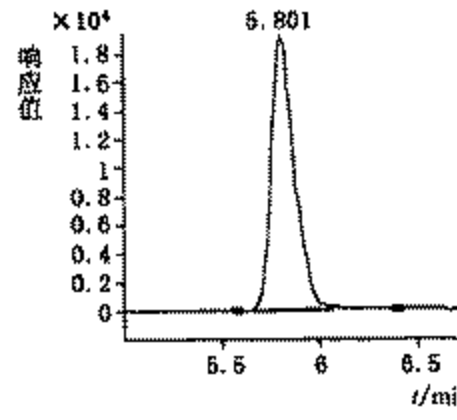
103. 溴谷隆
(methobromuron)



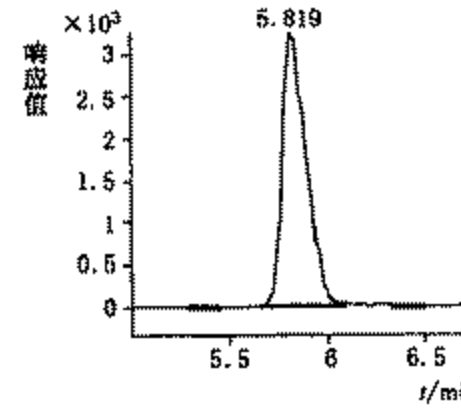
104. 甲拌磷
(phorate)



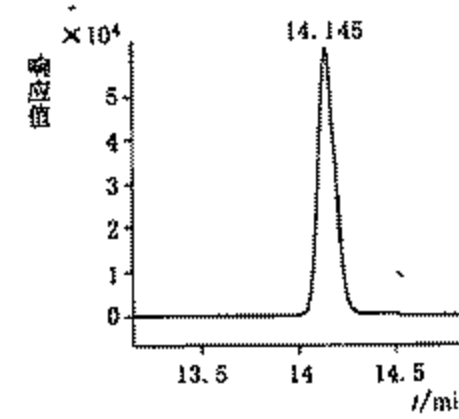
105. 苯草醚
(aclonifen)



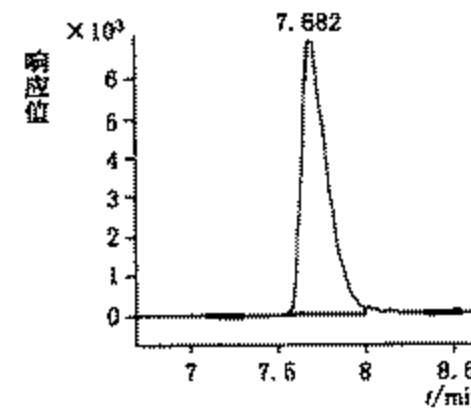
106. 地安磷
(mephosfolan)



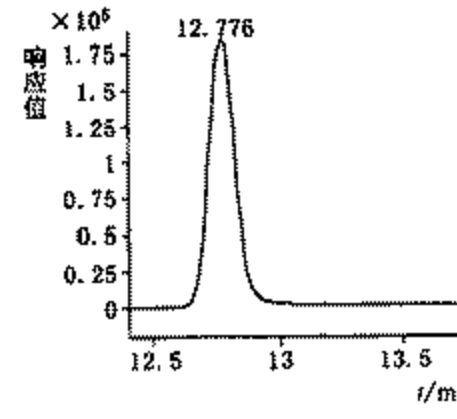
107. 脱苯甲基亚胺唑
(imibenconazole-des-benzyl)



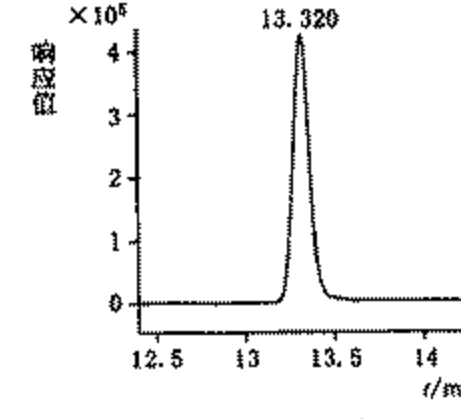
108. 草不隆
(neburon)



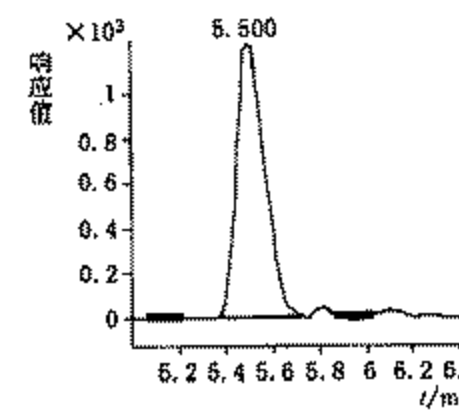
109. 精甲霜灵
(mefenoxam)



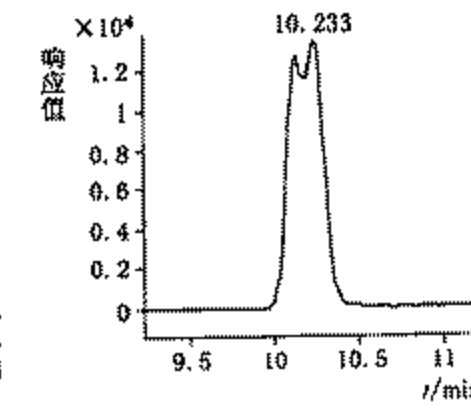
110. 乙氧呋草黄
(ethofume sate)



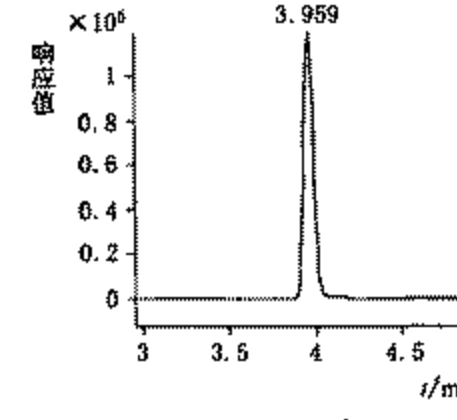
111. 异稻瘟净
(iprobenfos)



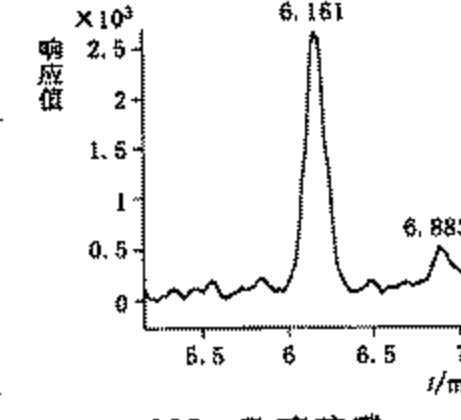
112. 特普
(TEPP)



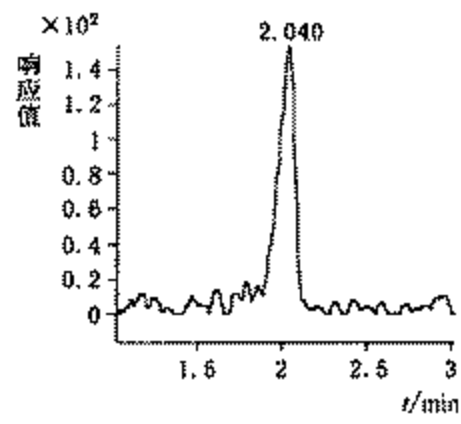
113. 环丙唑醇
(cyproconazole)



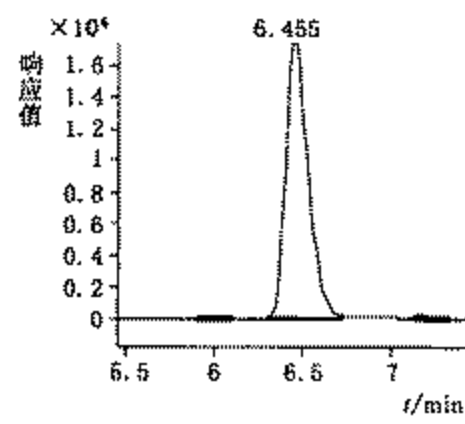
114. 噻虫噻
(thiamethoxam)



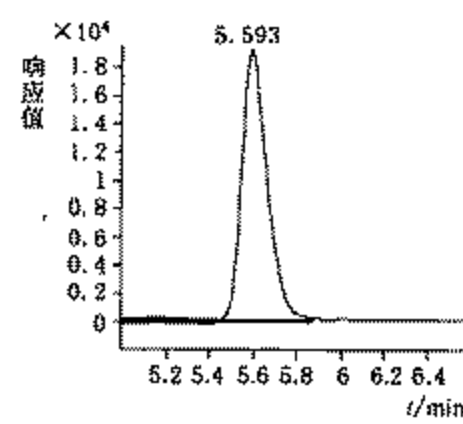
115. 乙嘧硫磷
(etrimfos)



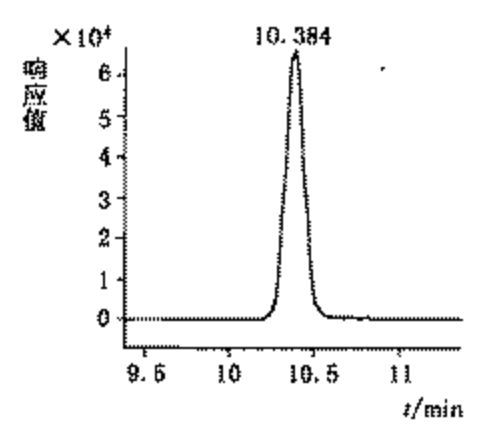
116. 杀鼠醚
(coumatetralyl)



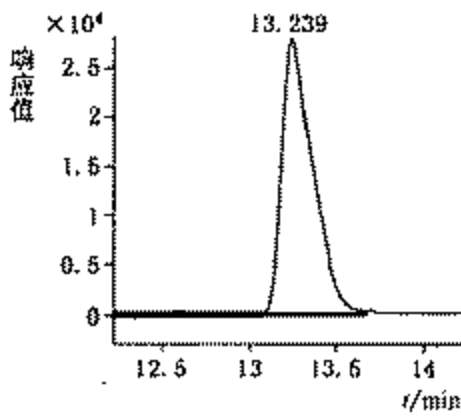
117. 赛灭磷
(cythioate)



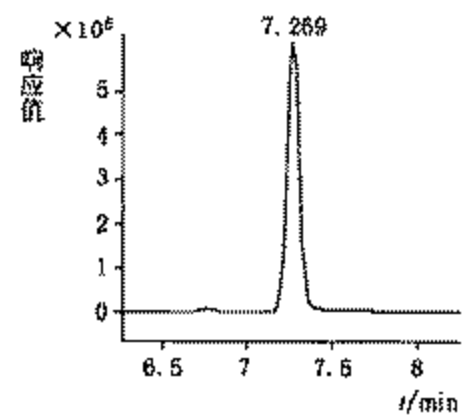
118. 磷胺
(phosphamidon)



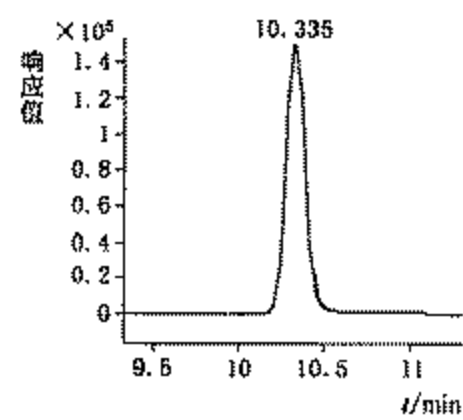
119. 甜菜宁
(phenmedipham)



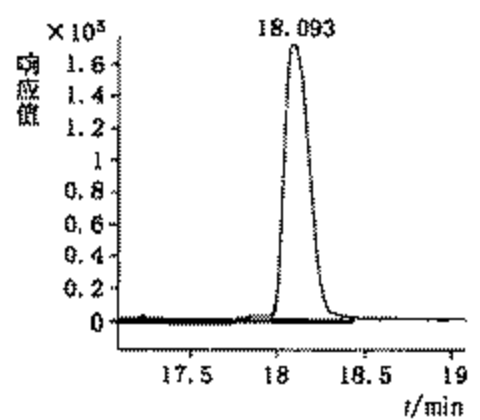
120. 联苯井酯
(bifenazate)



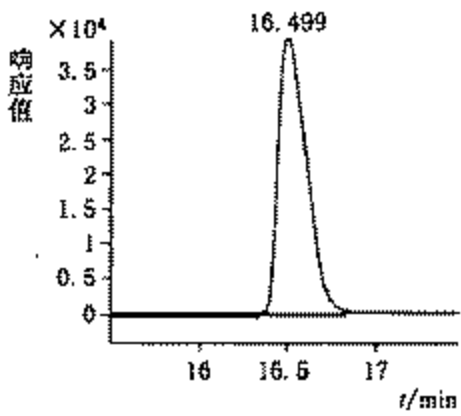
121. 粉唑醇
(flutriafol)



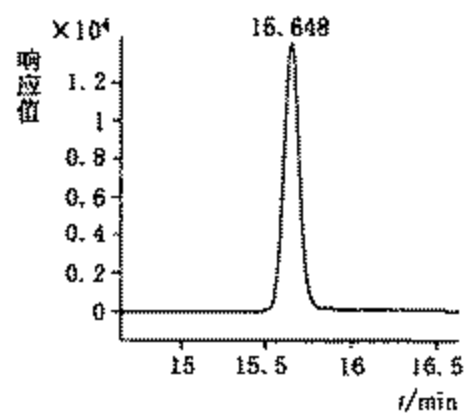
122. 抑菌丙胺酯
(furalaxyl)



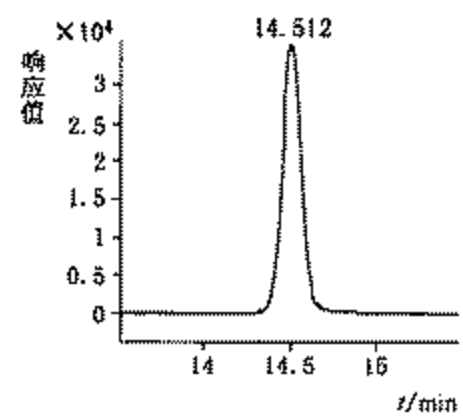
123. 生物丙烯菊酯
(bioallethrin)



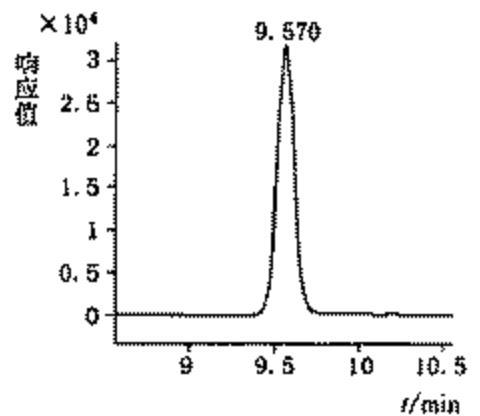
124. 苯腈磷
(cyanofenphos)



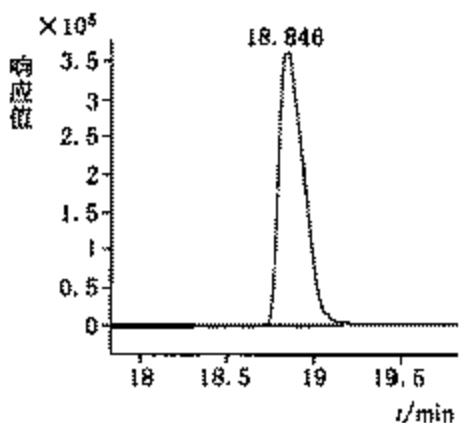
125. 甲基嘧啶磷
(pirimiphos methyl)



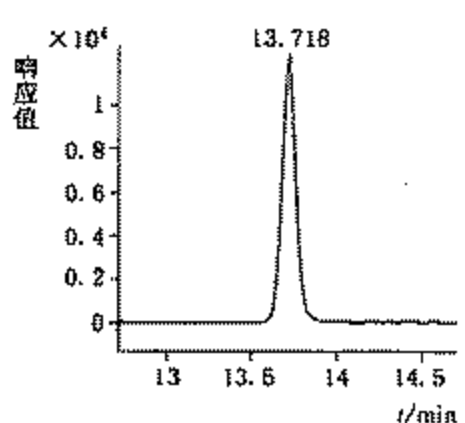
126. 噁嗪酮
(buprofezin)



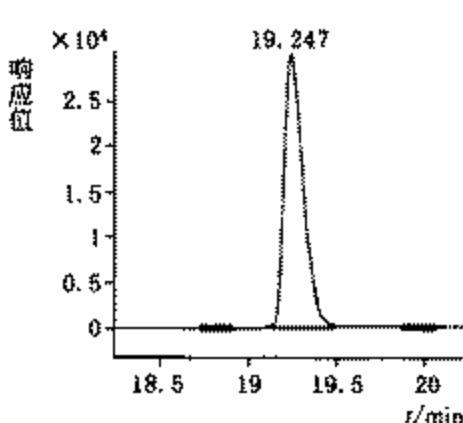
127. 乙拌磷磺
(disulfoton sulfone)



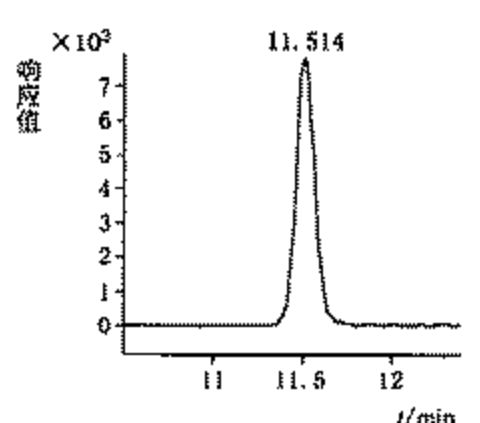
128. 啞嗪醚
(fenazaquin)



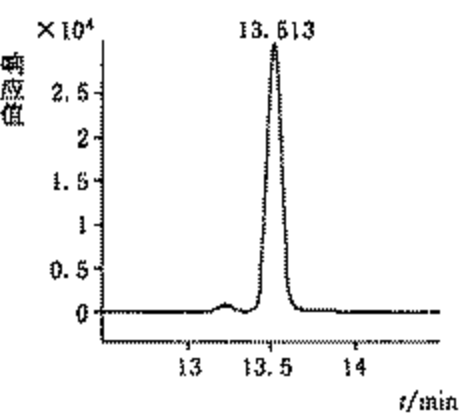
129. 三唑磷
(triazophos)



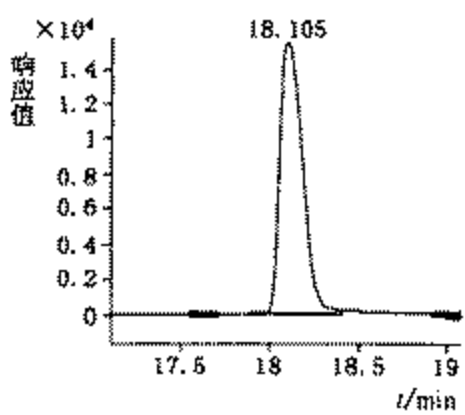
130. 脱叶磷
(DEF)



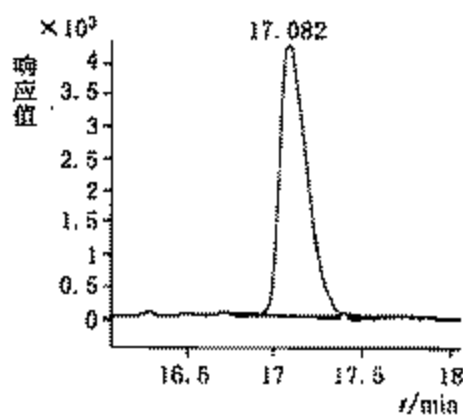
131. 环酯草醚
(pyriflithid)



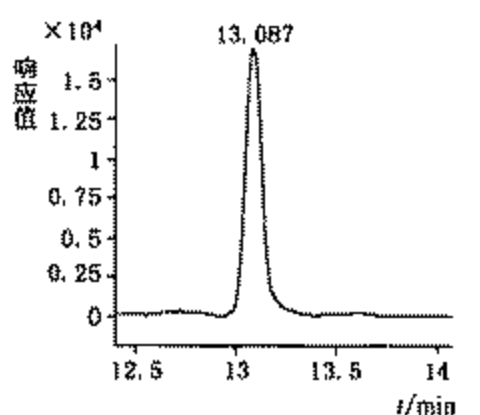
132. 叶菌唑
(metconazole)



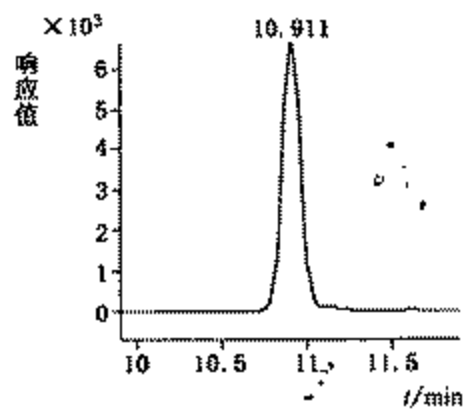
133. 蚊蝇醚
(pyriproxyfen)



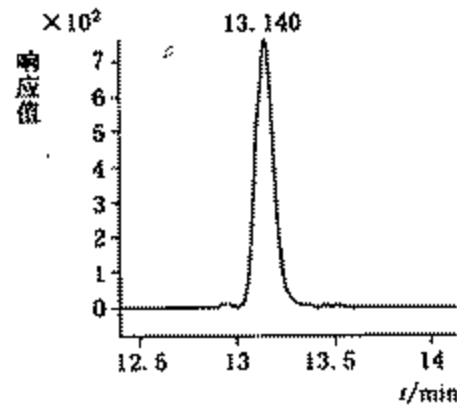
134. 噁草酮
(cycloxydim)



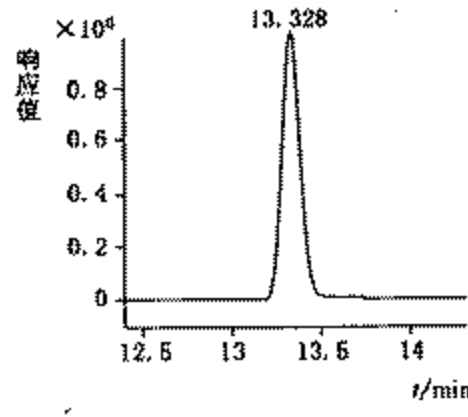
135. 异噁酰草胺
(isoxaben)



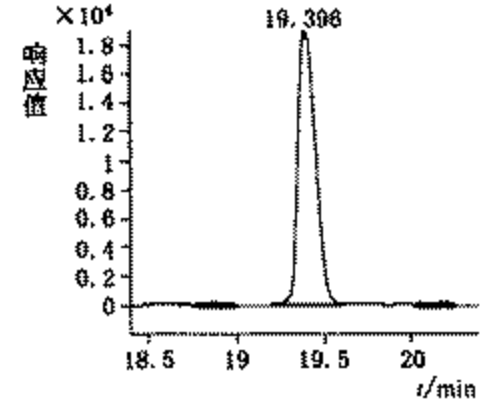
136. 呋草酮
(flurtamone)



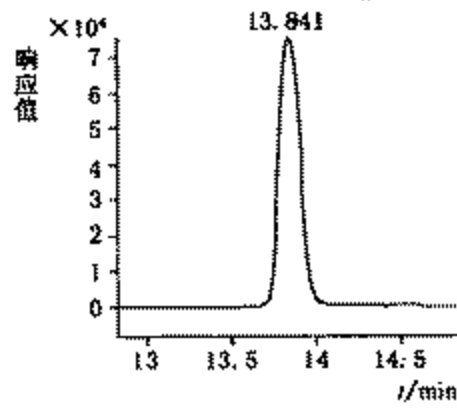
137. 氟乐灵
(trifluralin)



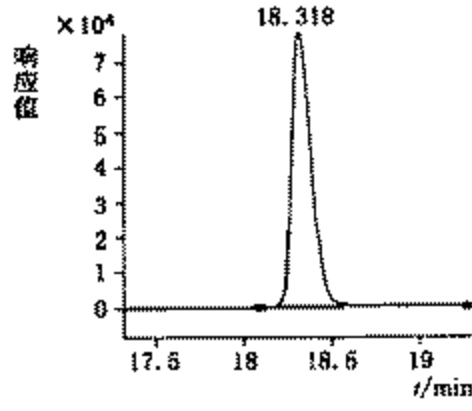
138. 甲基麦草氟异丙酯
(flamprop methyl)



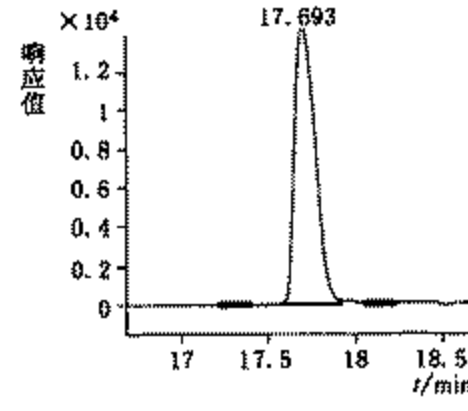
139. 生物吡啶菊酯
(bioresmethrin)



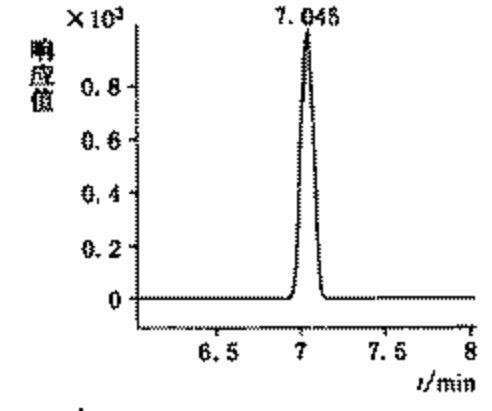
140. 丙环唑
(propiconazole)



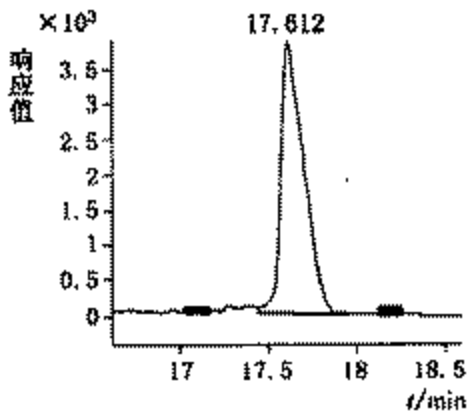
141. 毒死蜱
(chlorpyrifos)



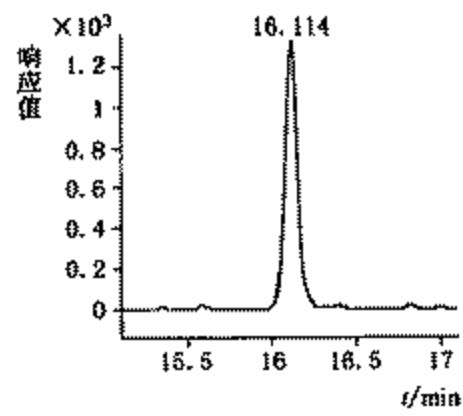
142. 氟乙氟灵
(fluchloralin)



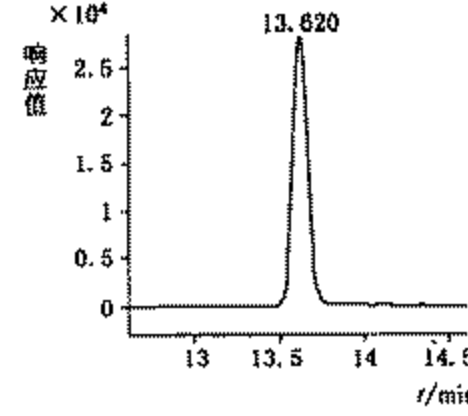
143. 氯磺隆
(chlorsulfuron)



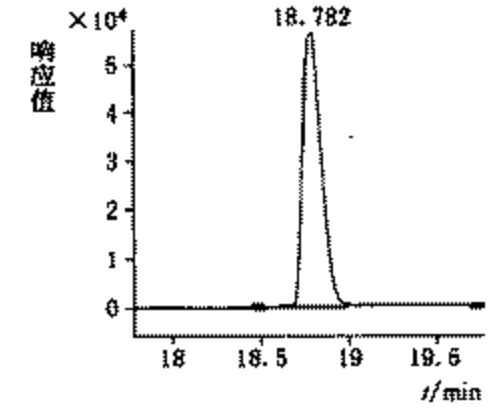
144. 烯草酮
(clethodim)



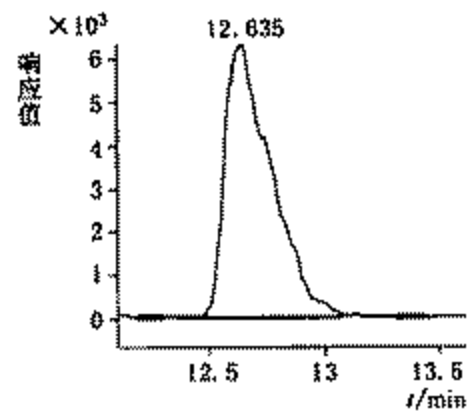
145. 麦草氟异丙酯
(flamprop isopropyl)



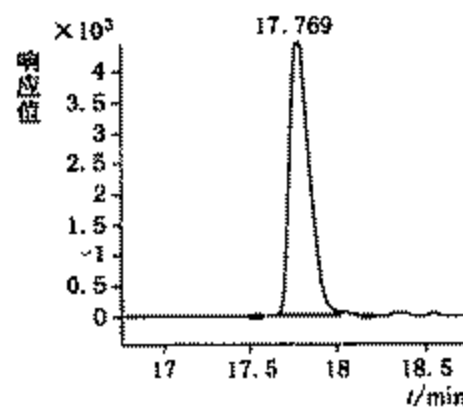
146. 杀虫畏
(tetrachlorvinphos)



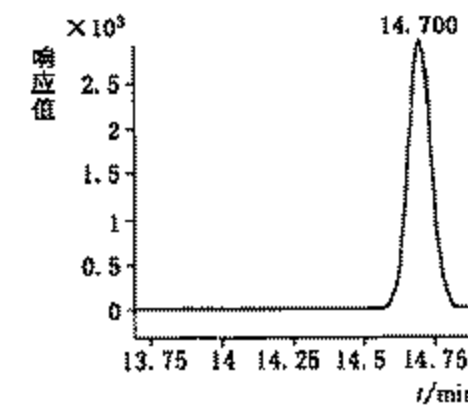
147. 炔螨特
(propargite)



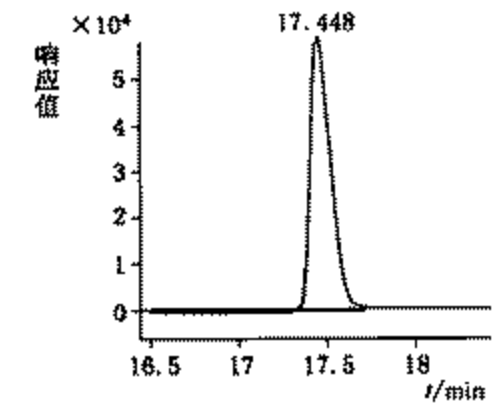
148. 糠菌唑
(bromuconazole)



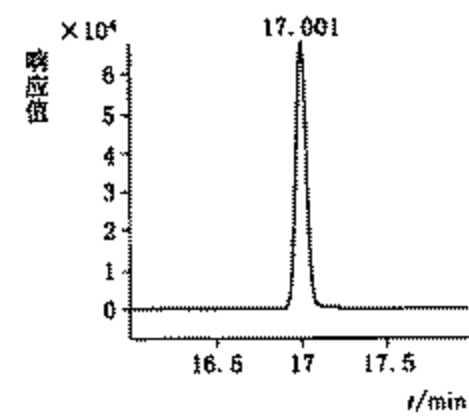
149. 氟吡酰草胺
(picolinafen)



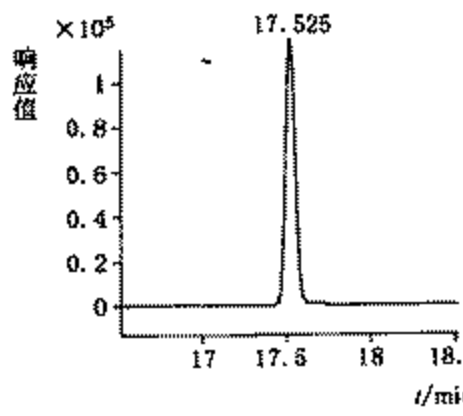
150. 氟噻乙草酯
(fluthiacet methyl)



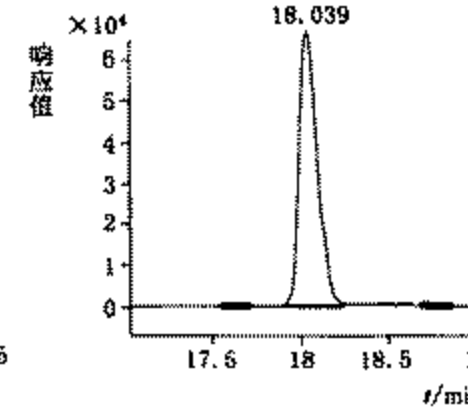
151. 肟菌酯
(trifloxystrobin)



152. 氟铃脲
(hexaflumuron)

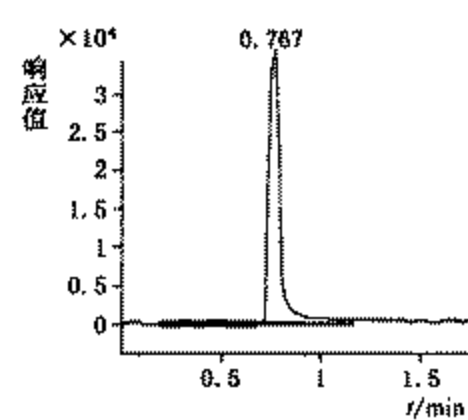


153. 氟酰脲
(novaluron)

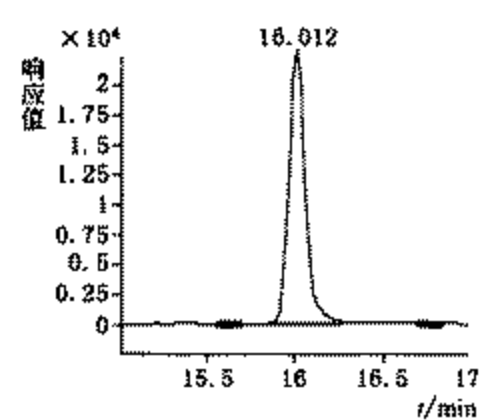


154. 啶啉脲
(flurazuron)

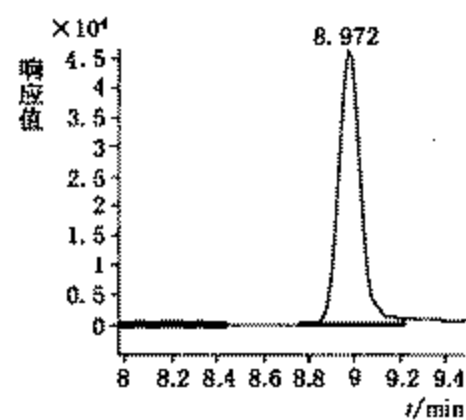
C组



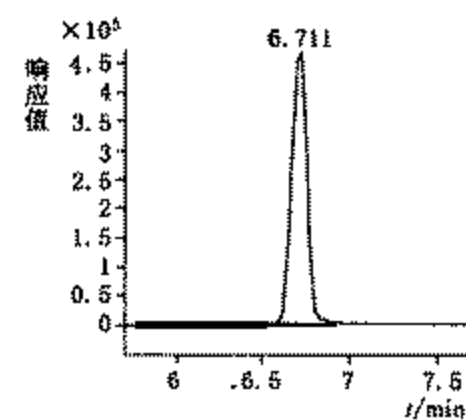
155. 甲胺磷
(methamidophos)



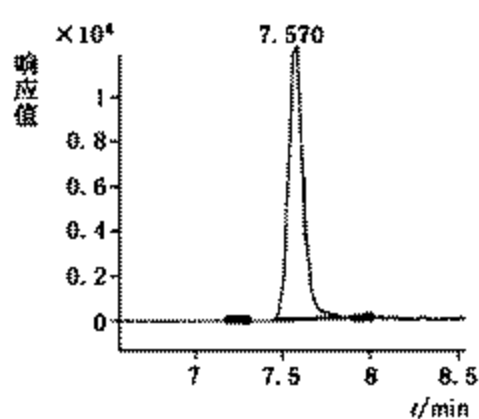
156. 茵草敌
(EPTC)



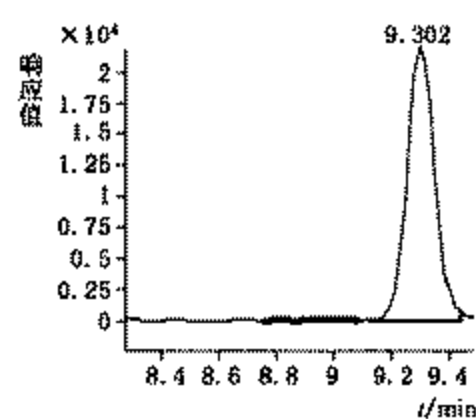
157. 避蚊胺
(diethyltoluamide)



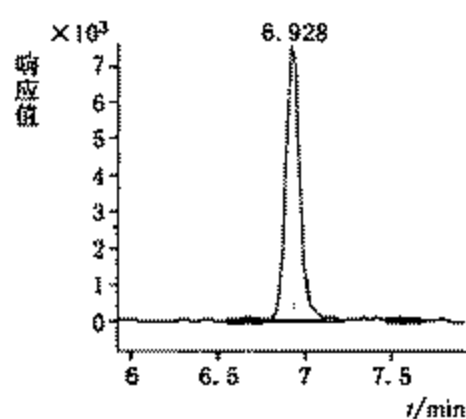
158. 灭草隆
(monuron)



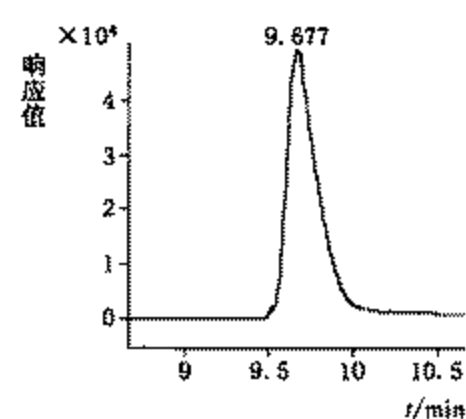
159. 嘧霉胺
(pyrimethanil)



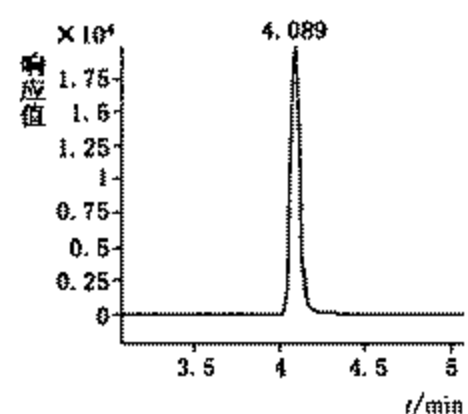
160. 黑穗胺
(fenfuram)



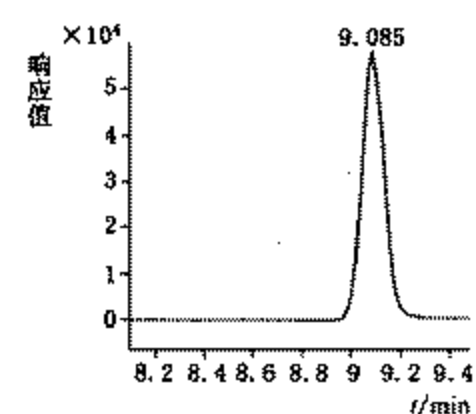
161. 灭藻醌
(quinoclamine)



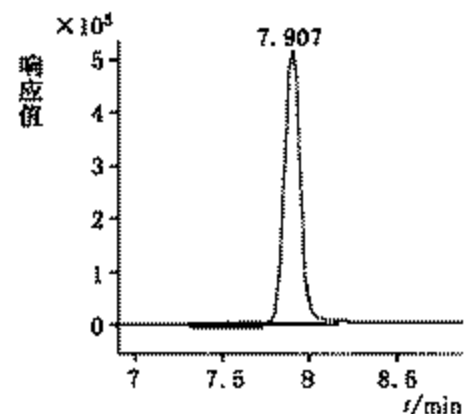
162. 仲丁威
(fenobucarb)



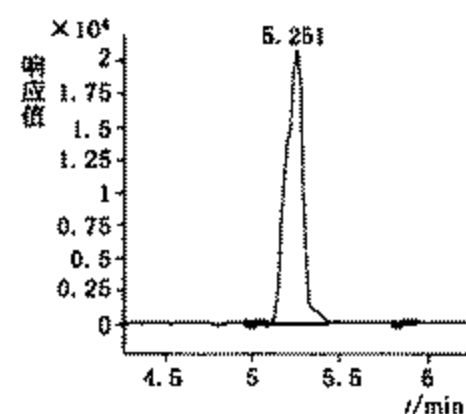
163. 乙菌定
(ethirimol)



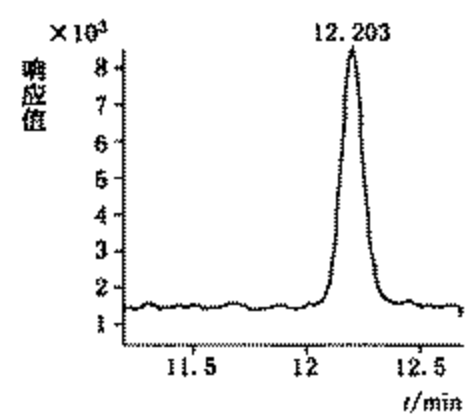
164. 敌稗
(propanil)



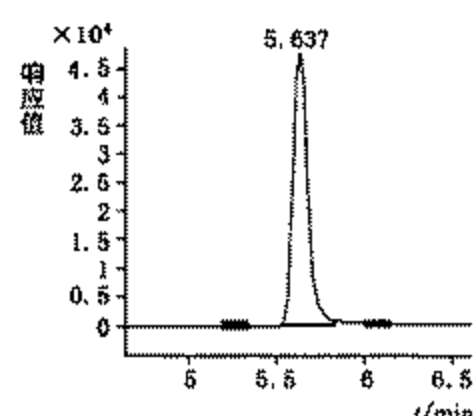
165. 克百威
(carbofuran)



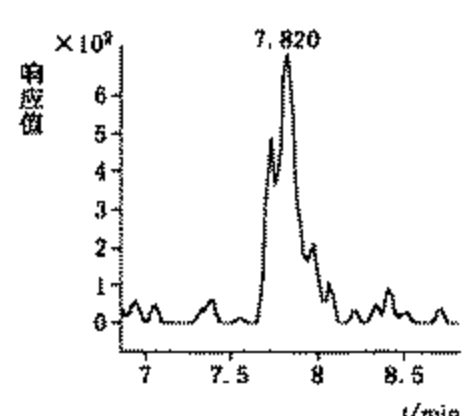
166. 啉虫清
(acetamiprid)



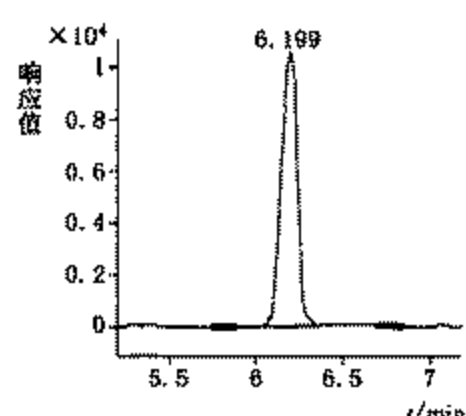
167. 嘧菌胺
(mepanipyrim)



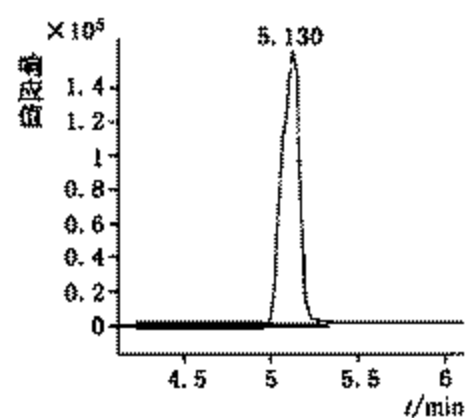
168. 扑灭通
(prometon)



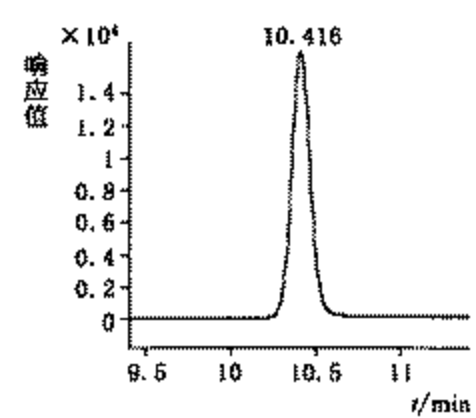
169. 甲硫威
(methiocarb)



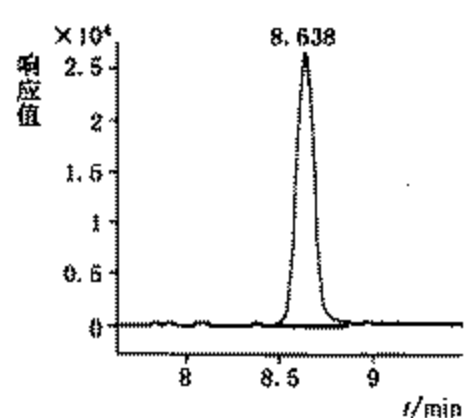
170. 甲氧隆
(metoxuron)



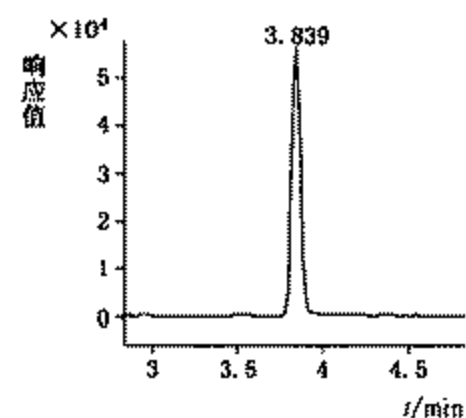
171. 乐果
(dimerthoate)



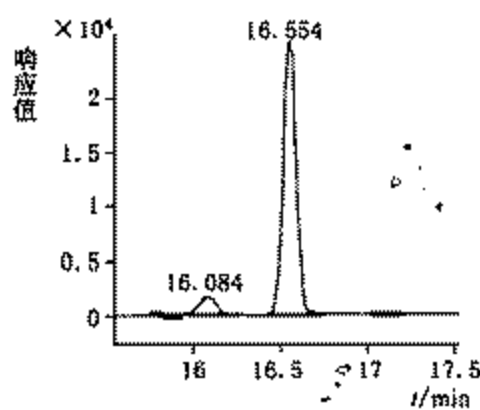
172. 呋菌胺
(methfuroxam)



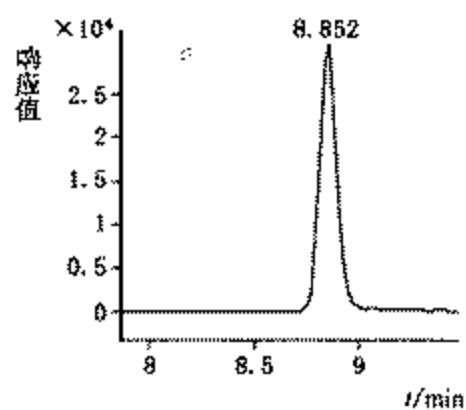
173. 伏草隆
(fluometuron)



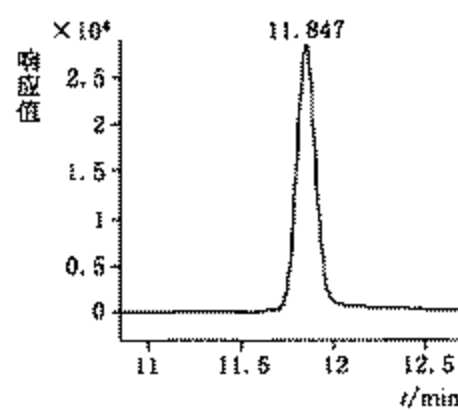
174. 百治磷
(dicrotophos)



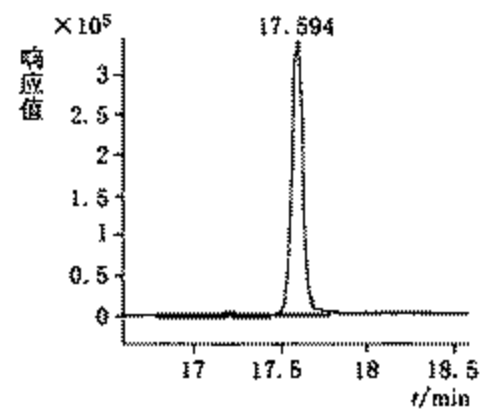
175. 庚酰草胺
(monalide)



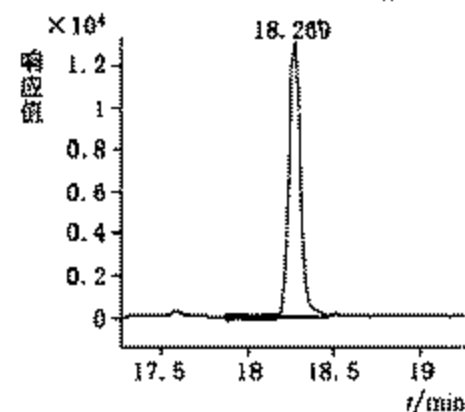
176. 双苯酰草胺
(diphenamid)



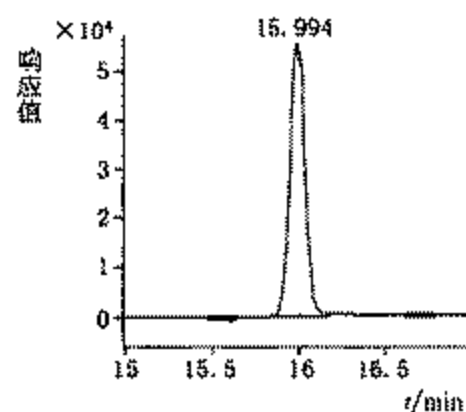
177. 灭线磷
(ethoprophos)



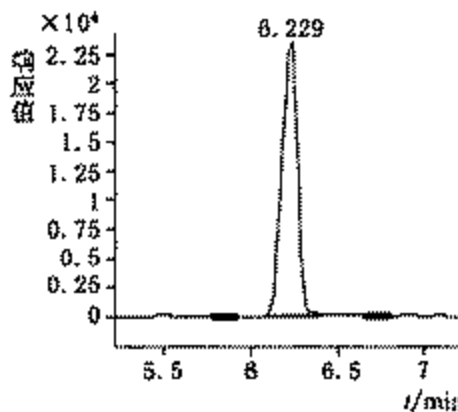
178. 地虫硫磷
(fonofos)



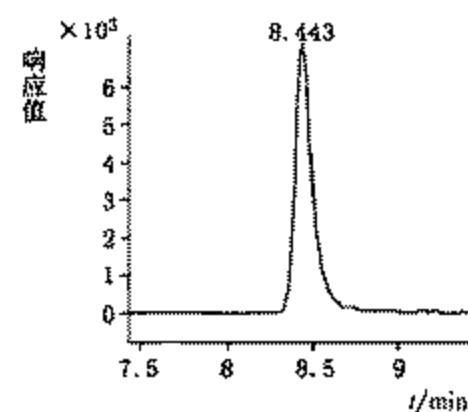
179. 土菌灵
(etridiazol)



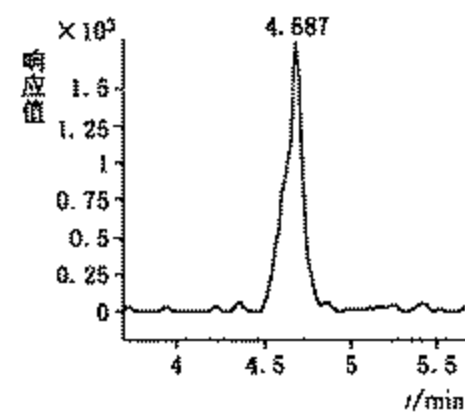
180. 拌种胺
(furmecyclox)



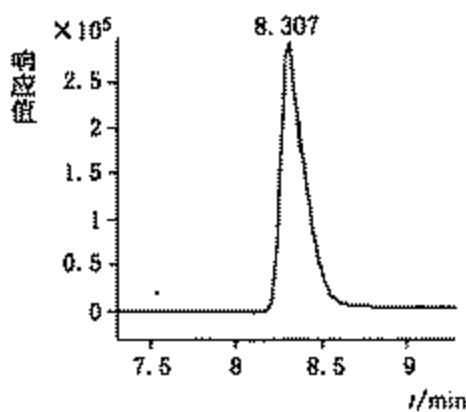
181. 环嗪酮
(hexazinone)



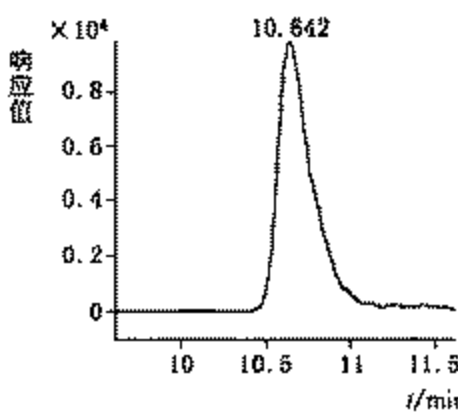
182. 异戊乙净
(dimethametryn)



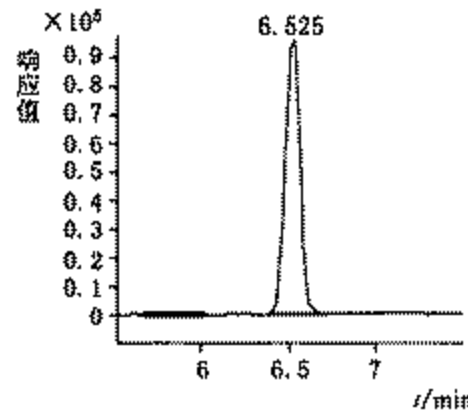
183. 敌百虫
(trichlorphon)



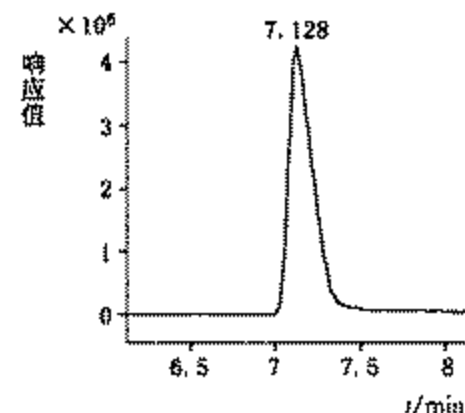
184. 内吸磷
[demeton(o+s)]



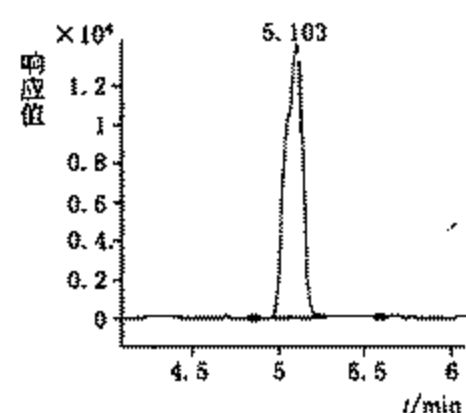
185. 解草酮
(benoxacor)



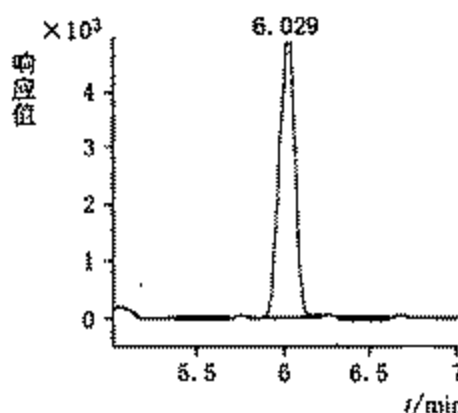
186. 除草定
(bromacil)



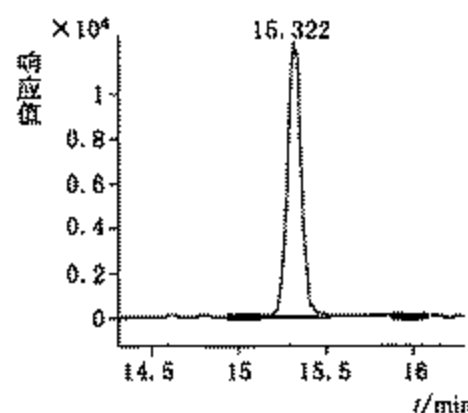
187. 甲拌磷亚砷
(phorate sulfoxide)



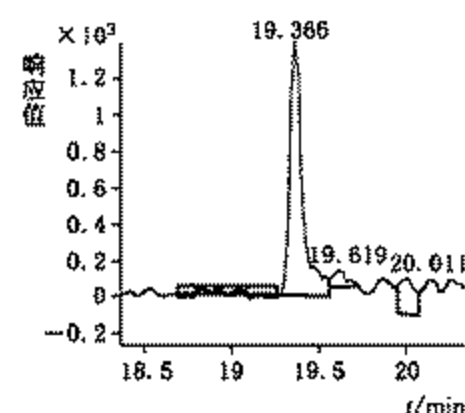
188. 溴莠敏
(brompyrazon)



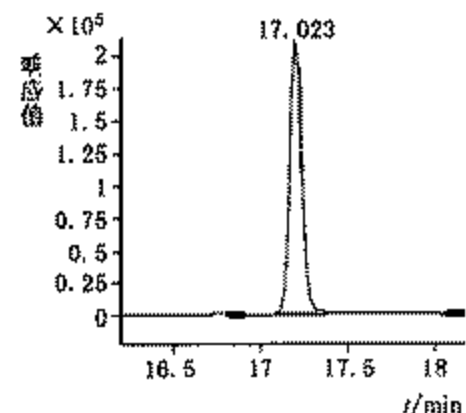
189. 氧化萎锈灵
(oxycarboxin)



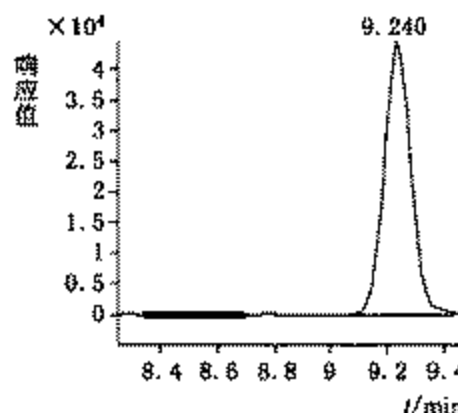
190. 灭锈胺
(mepronil)



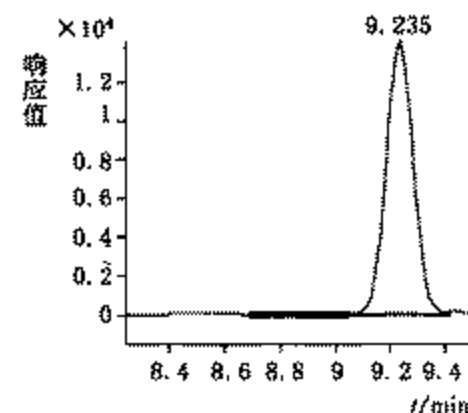
191. 乙拌磷
(disulfoton)



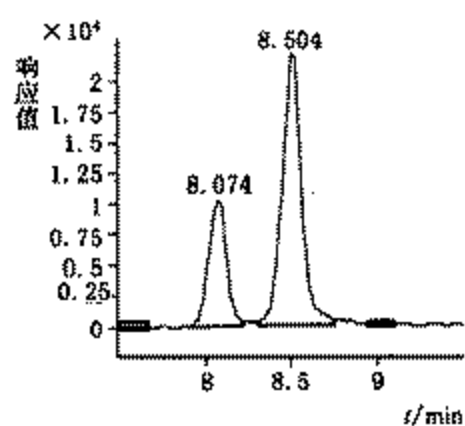
192. 倍硫磷
(fenthion)



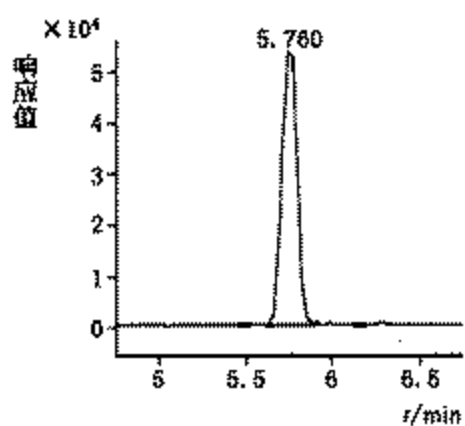
193. 甲霜灵
(metalaxyl)



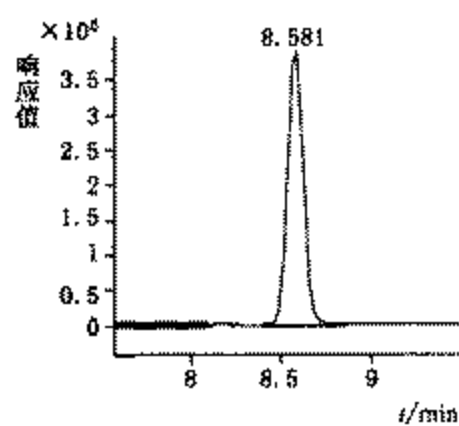
194. 甲呋酰胺
(ofurace)



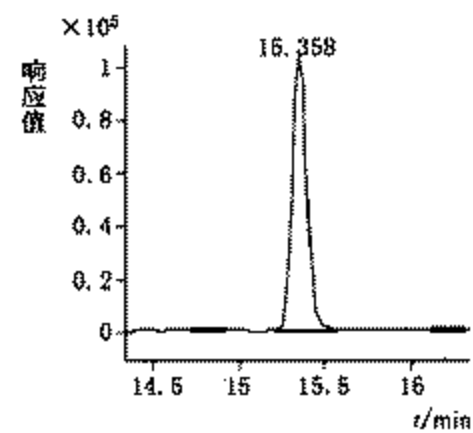
195. 吗菌灵
(dodemorph)



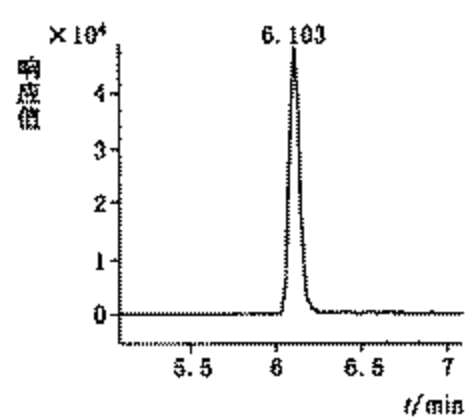
196. 甲基咪草酯
(imazamethabenz-methyl)



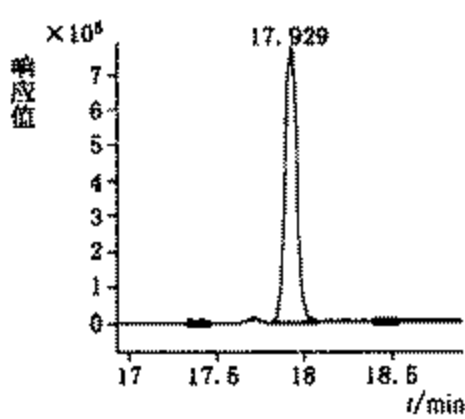
197. 乙拌磷亚砷
(disulfoton-sulfoxide)



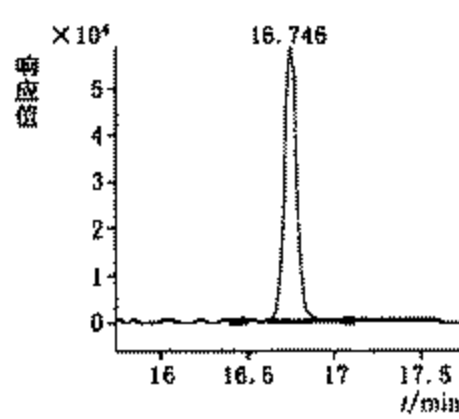
198. 稻瘟灵
(isoprothiolane)



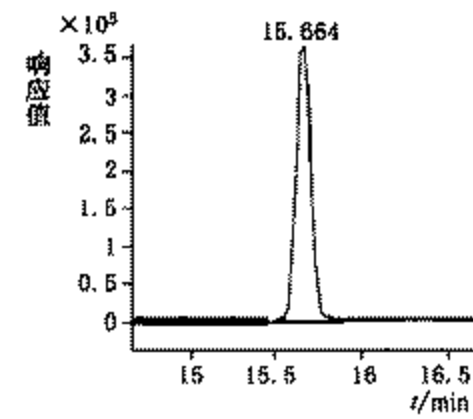
199. 抑菌唑
(imazalil)



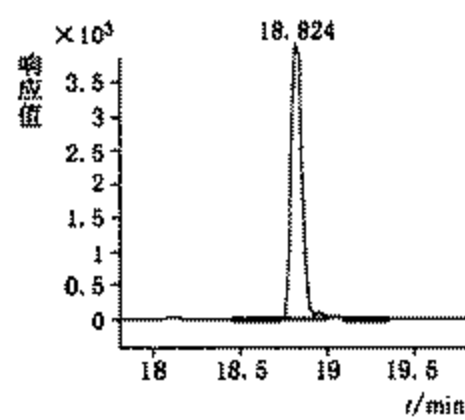
200. 辛硫磷
(phoxim)



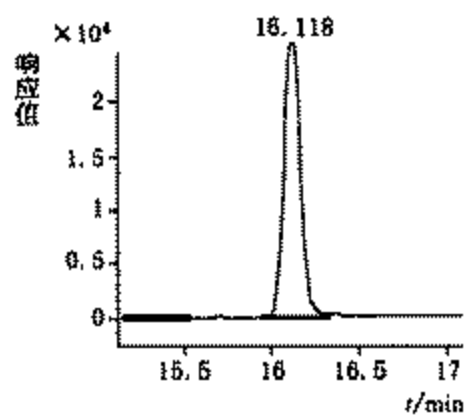
201. 喹硫磷
(quinalphos)



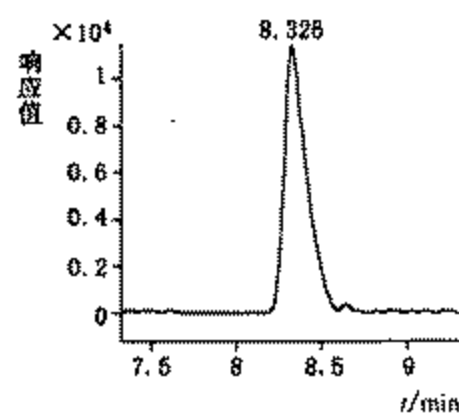
202. 灭菌磷
(ditalimfos)



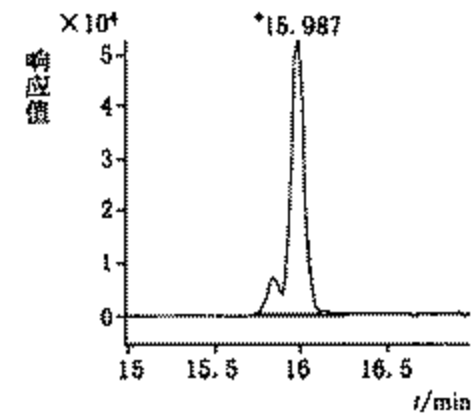
203. 苯氧威
(fenoxycarb)



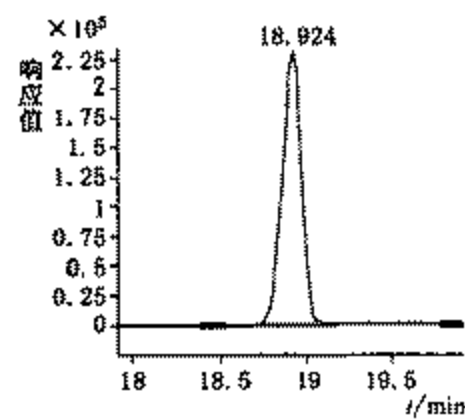
204. 嘧啶磷
(pyrimitate)



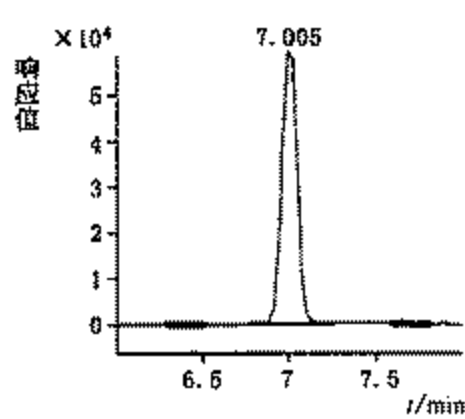
205. 丰索磷
(fensulfothin)



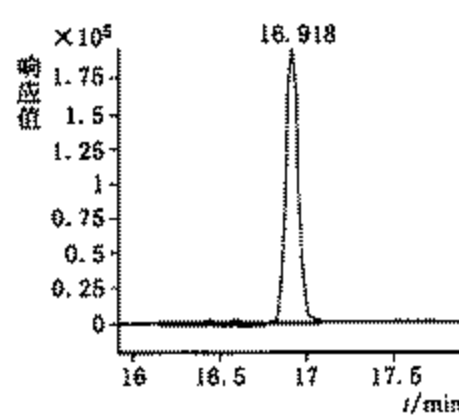
206. 氟咯草酮
(fluorchloridone)



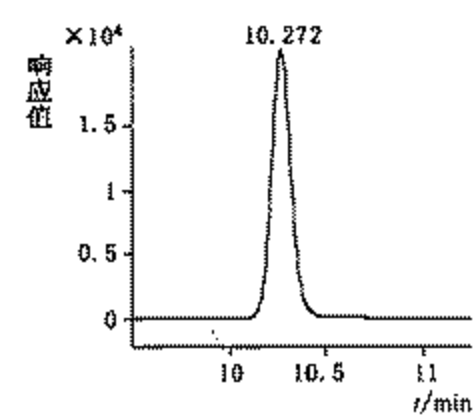
207. 丁草胺
(butachlor)



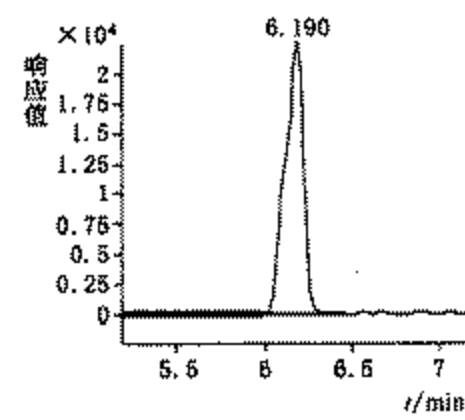
208. 咪唑啉酸
(imazaquin)



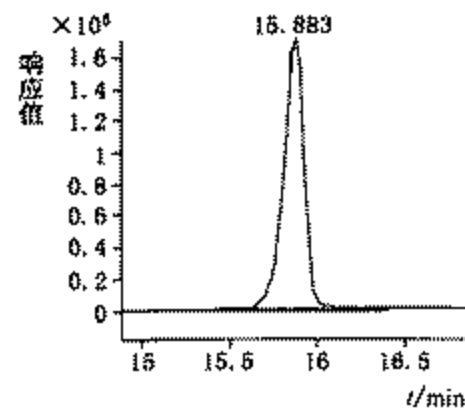
209. 亚胺菌
(kresoxim-methyl)



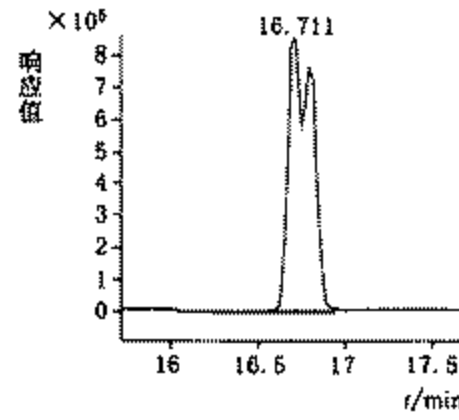
210. 戊叉菌唑
(triticonazole)



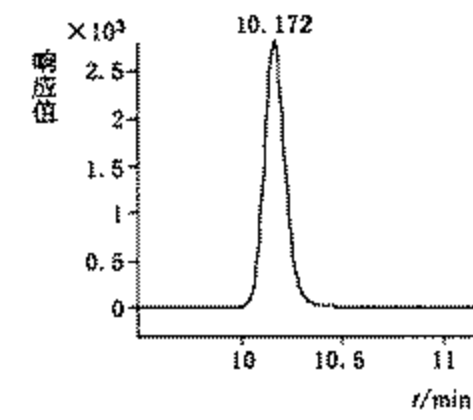
211. 苯线磷亚砷
(fenamiphos sulfoxide)



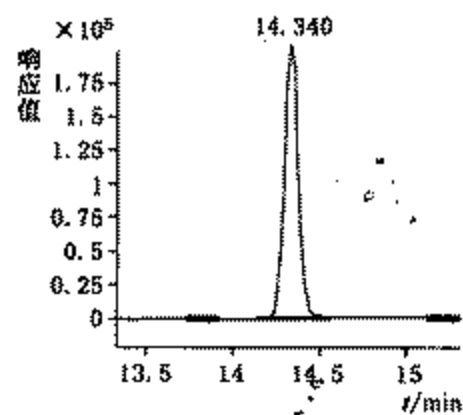
212. 噻吩草胺
(thenylchlor)



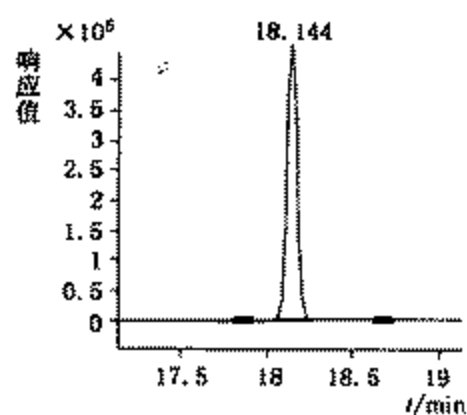
213. 氟菌胺
(fenoxanil)



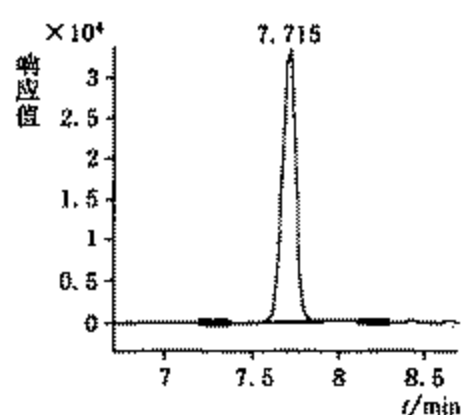
214. 氟啶草酮
(fluridone)



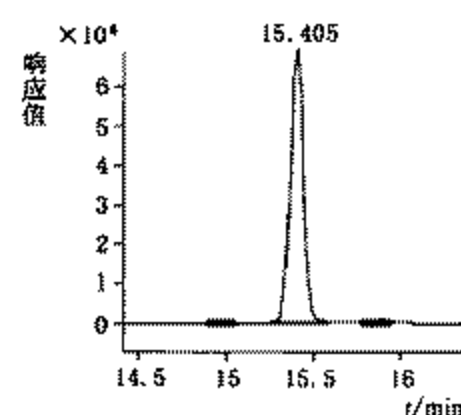
215. 氟环唑
(epoxiconazole)



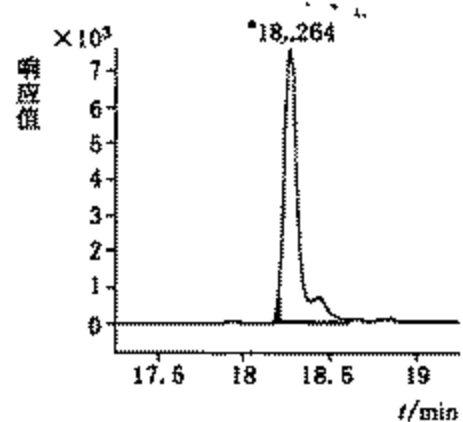
216. 氯辛硫磷
(chlorphoxim)



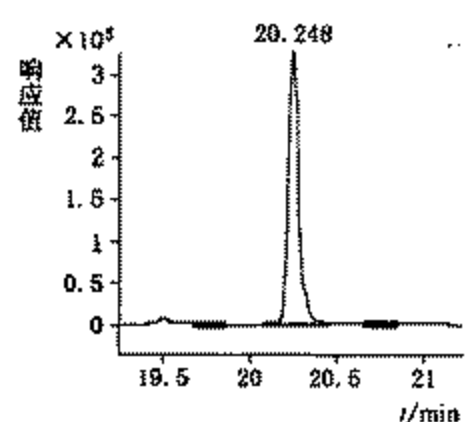
217. 苯线磷磺
(fenamiphos sulfone)



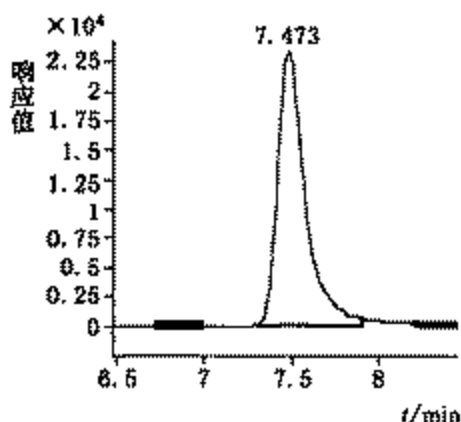
218. 腈苯唑
(fenbuconazole)



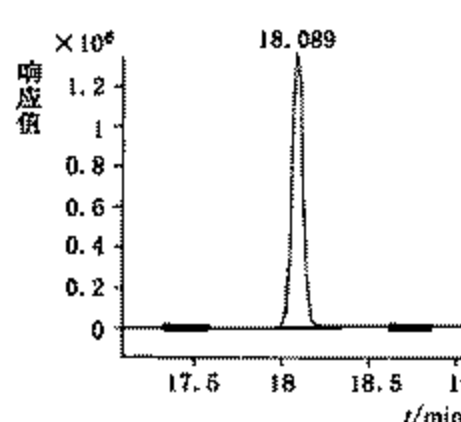
219. 异柳磷
(isofenphos)



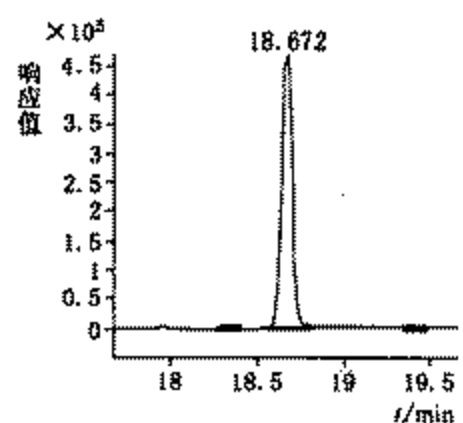
220. 苯醚菊酯
(phenothrin)



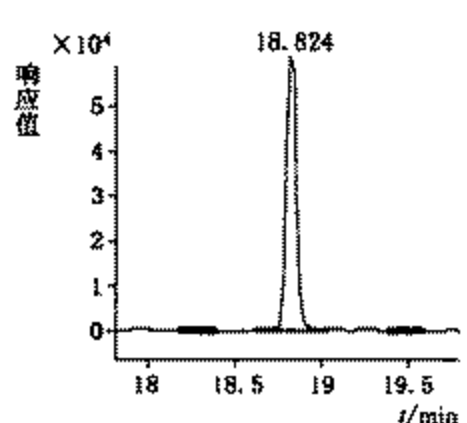
221. 氯化砒瘟锡
(fentin-chloride)



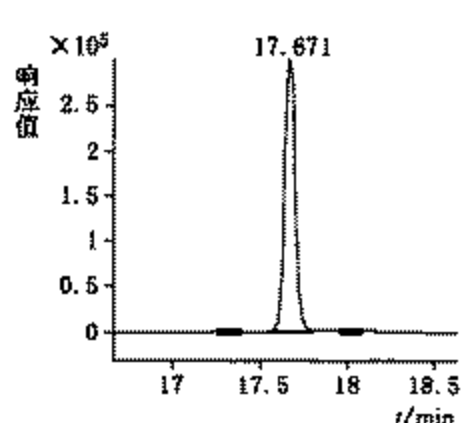
222. 呱草磷
(piperophos)



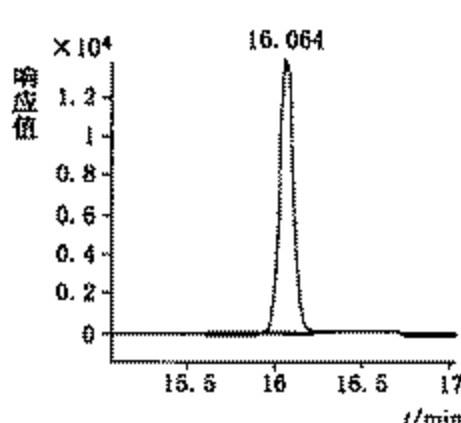
223. 增效醚
(piperonyl butoxide)



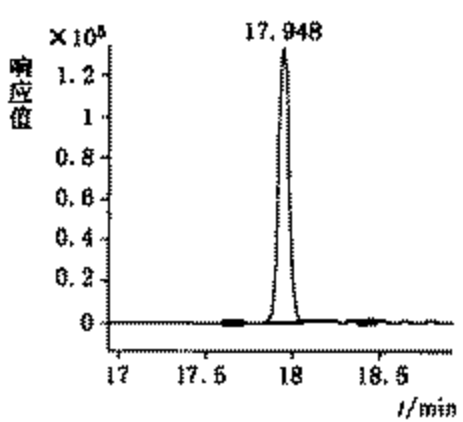
224. 乙氧氟草醚
(oxyflurofen)



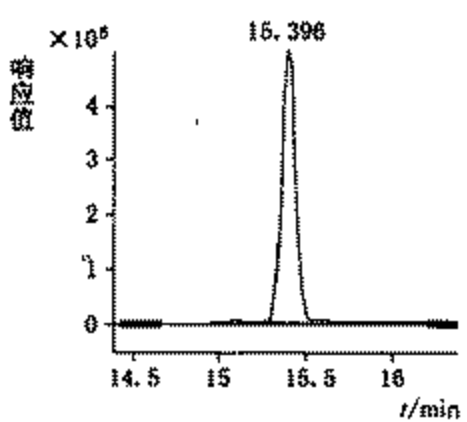
225. 蝇毒磷
(coumaphos)



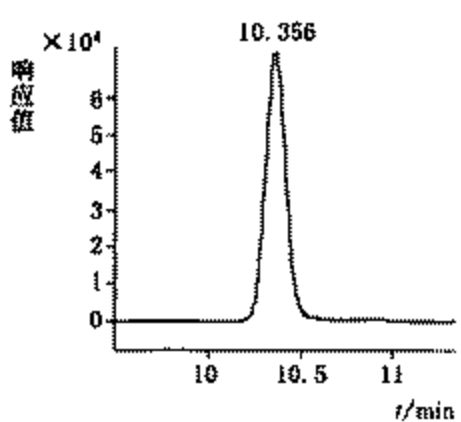
226. 氟噻草胺
(flufenacet)



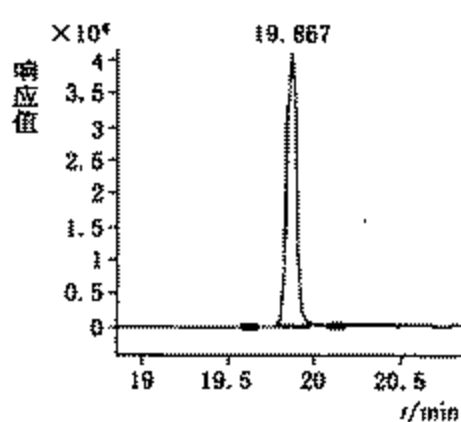
227. 伏杀硫磷
(phosalone)



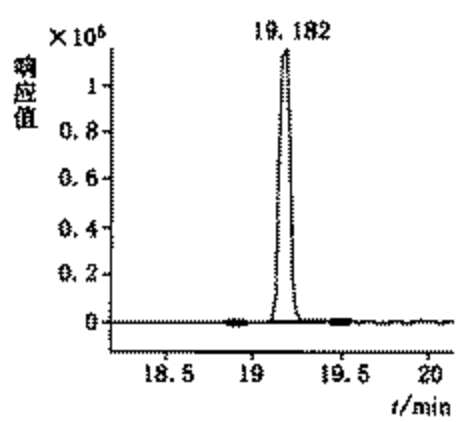
228. 甲氧虫酰肼
(methoxyfenozide)



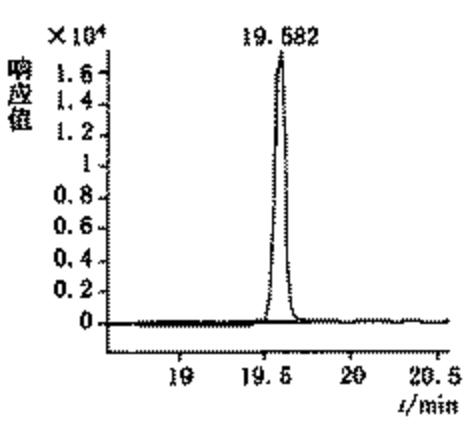
229. 咪鲜胺
(prochloraz)



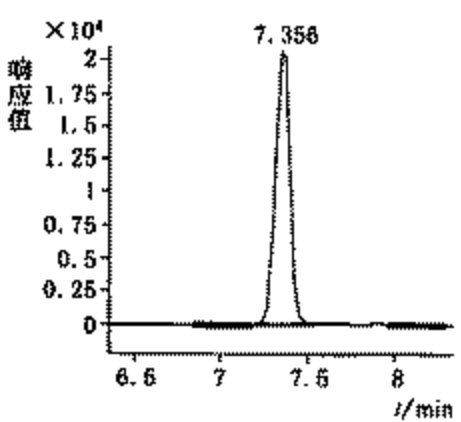
230. 丙硫特普
(aspon)



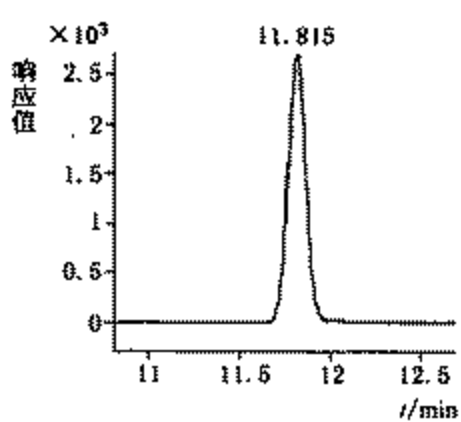
231. 乙硫磷
(ethion)



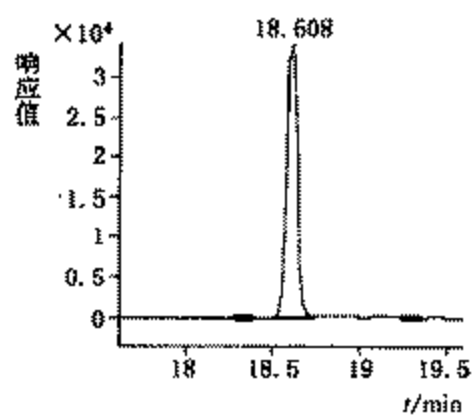
232. 丁醚脲
(diafenthiuron)



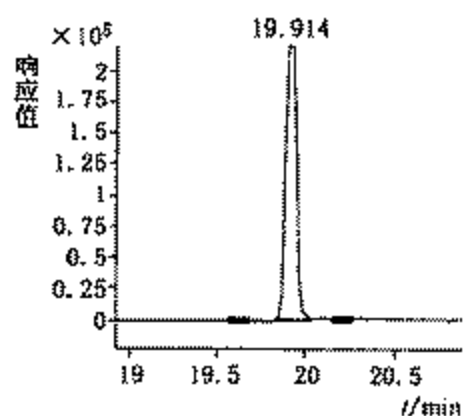
233. 噻吩磺隆
(thifensulfuron-methyl)



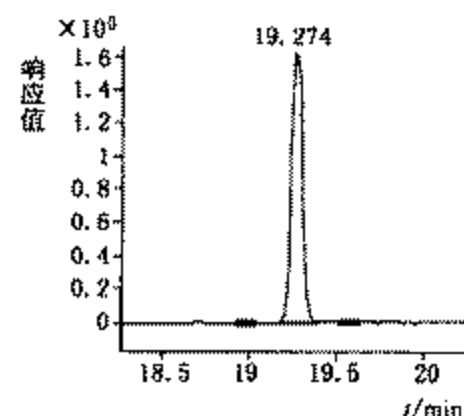
234. 乙氧嘧磺隆
(ethoxysulfuron)



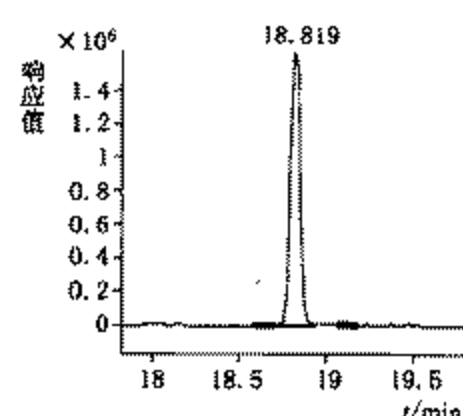
235. 氟硫草定
(dithiopyr)



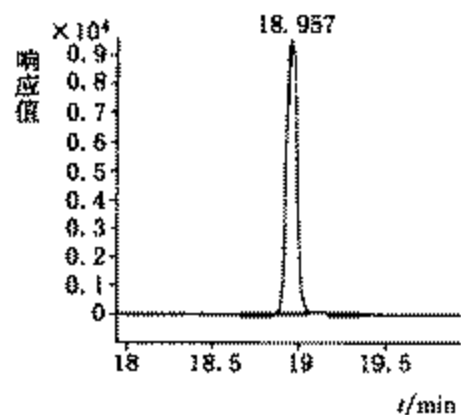
236. 螺螨酯
(spirodiclofen)



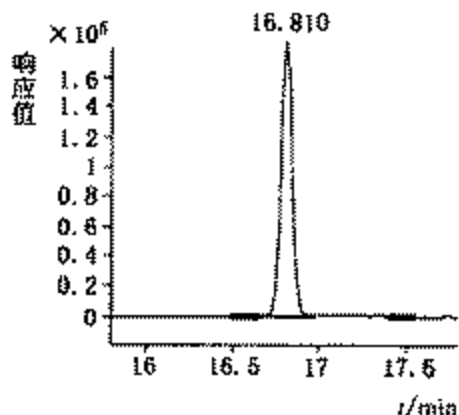
237. 唑螨酯
(fenpyroximate)



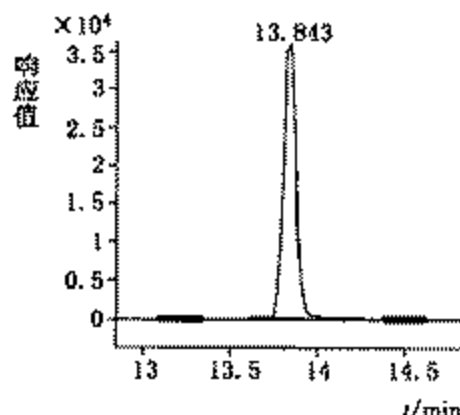
238. 胺氟草酯
(flumiclorac-pentyl)



239. 双硫磷
(temephos)

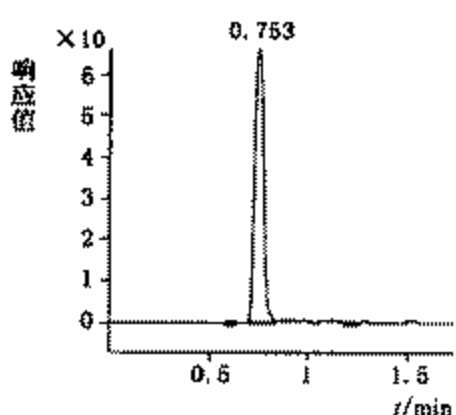


240. 氟丙嘧草酯
(butafenacil)

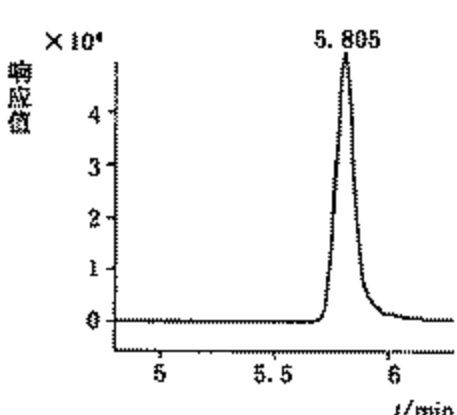


241. 多杀菌素
(spinosad)

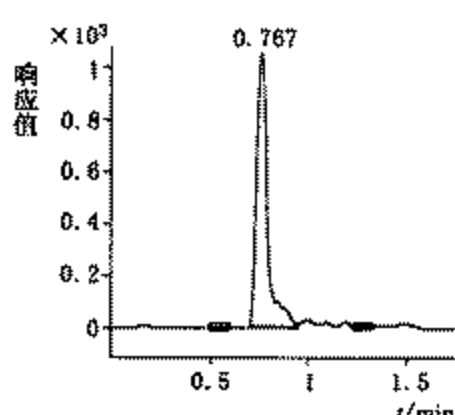
D组



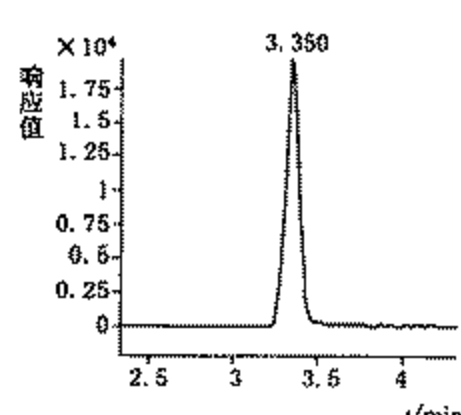
242. 甲呱金翁
(mepiquat chloride)



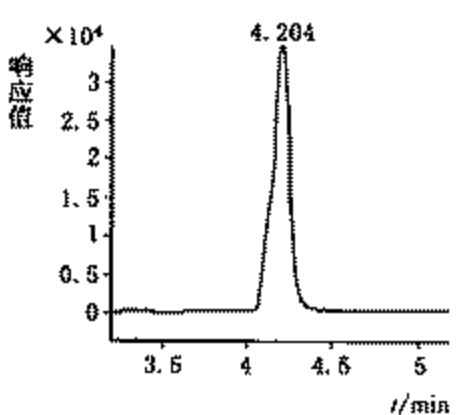
243. 二丙烯草胺
(allidochlor)



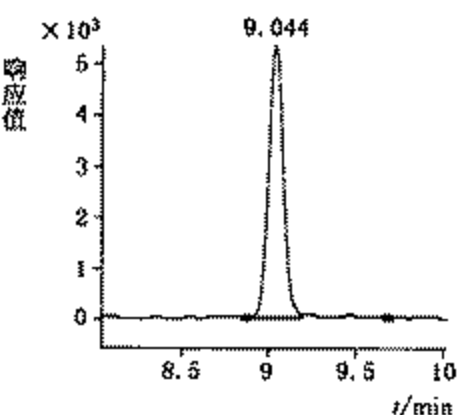
244. 霜霉威
(propamocarb)



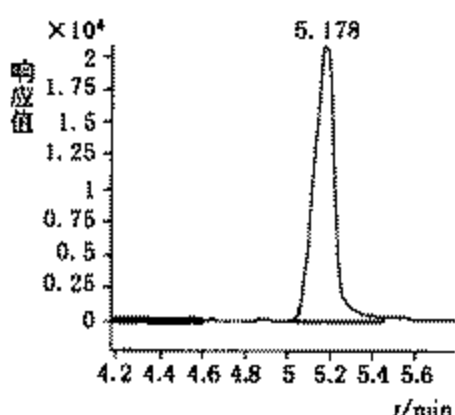
245. 噻菌灵
(thiabendazole)



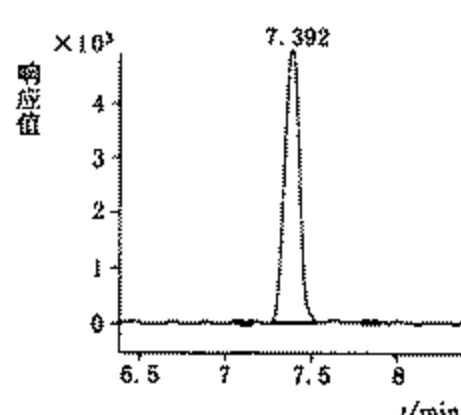
246. 苯噻草酮
(metamitron)



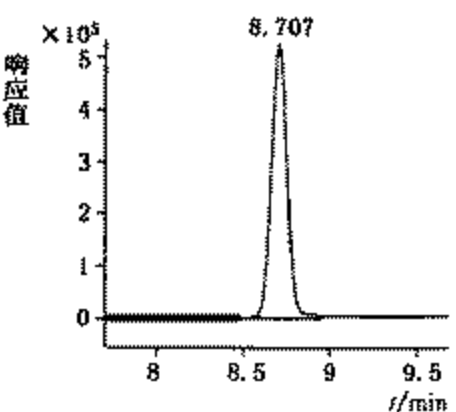
247. 异丙隆
(isoproturon)



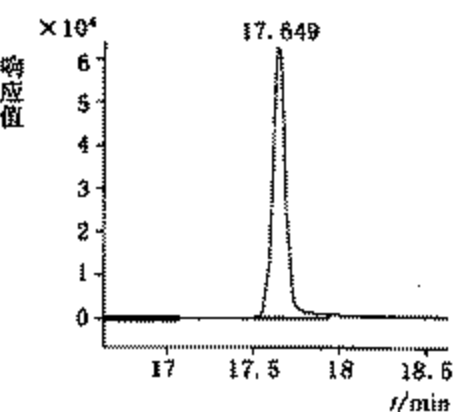
248. 莠去通
(atratone)



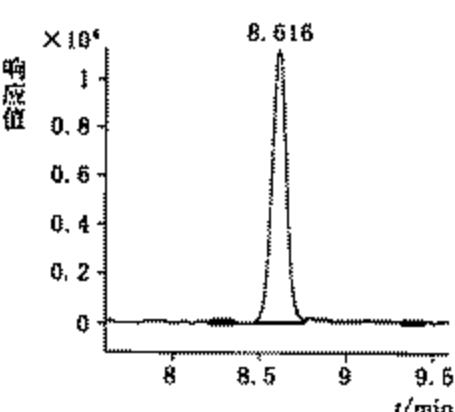
249. 赛克津
(metribuzin)



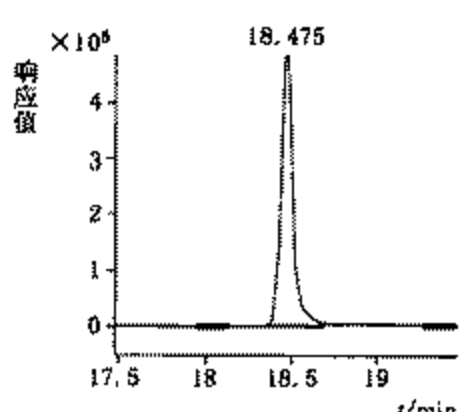
250. 一
(DMST)



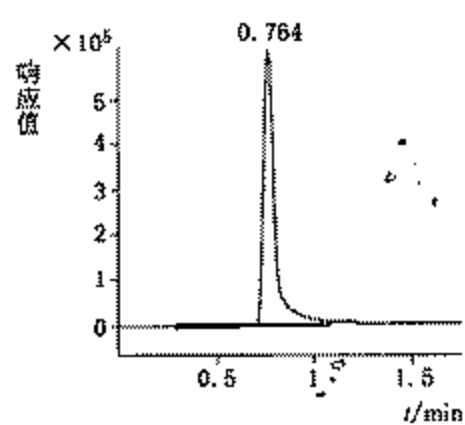
251. 环草敌
(cycloate)



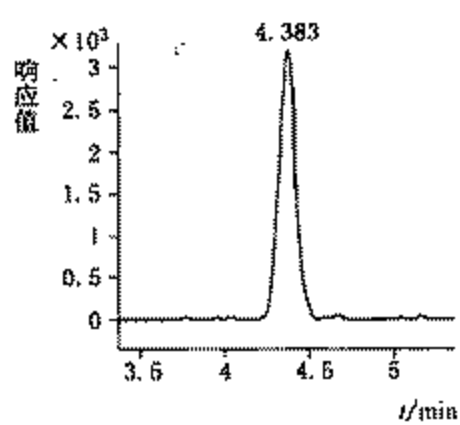
252. 阿特拉津
(atrazine)



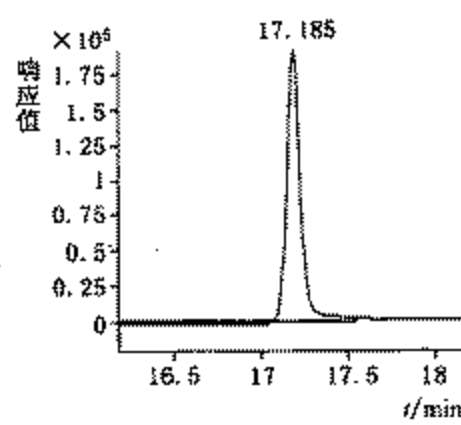
253. 丁草敌
(butylate)



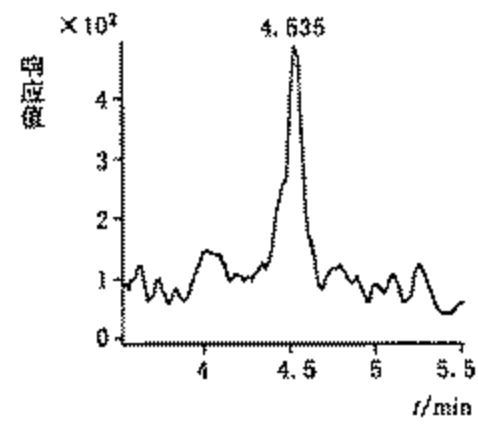
254. 吡蚜酮
(pymetrozin)



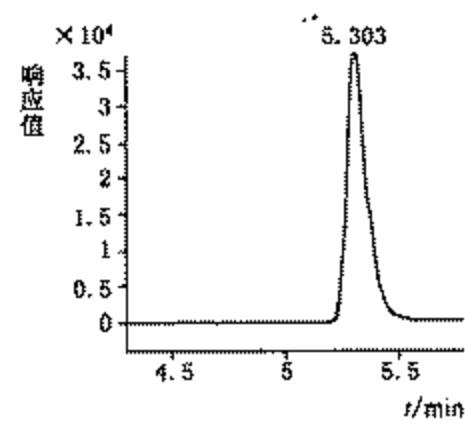
255. 氯草敏
(chloridazon)



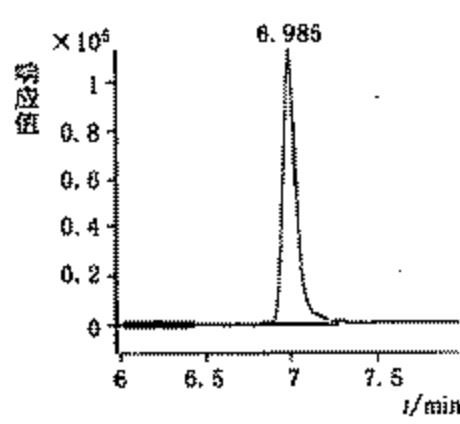
256. 莱草畏
(sulfallate)



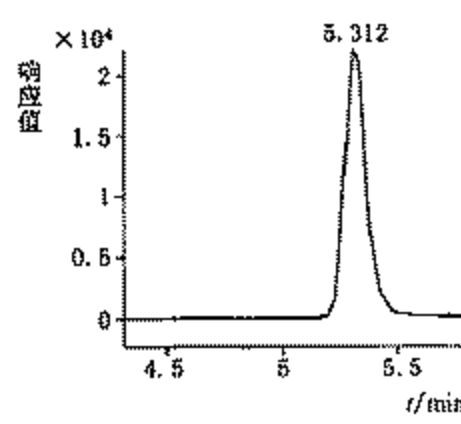
257. 乙硫苯威
(ethiofencarb)



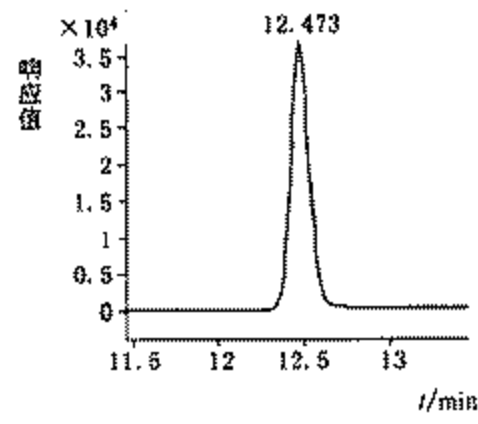
258. 特丁通
(terbumeton)



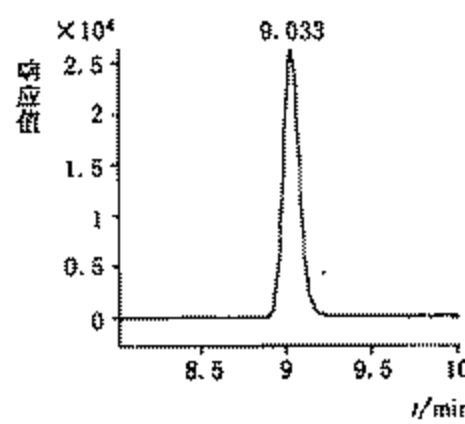
259. 莠灭净
(ametryn)



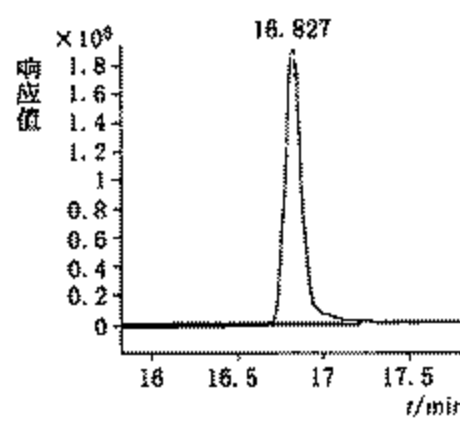
260. 木草隆
(tebuthiuron)



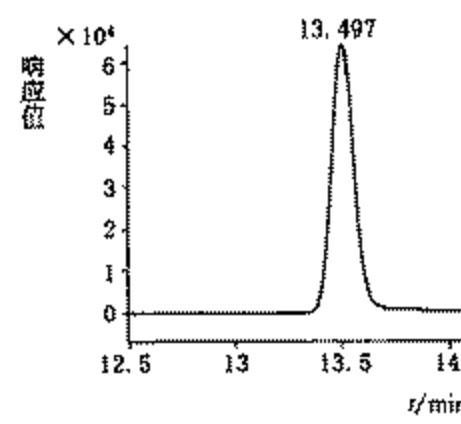
261. 草达津
(trietazine)



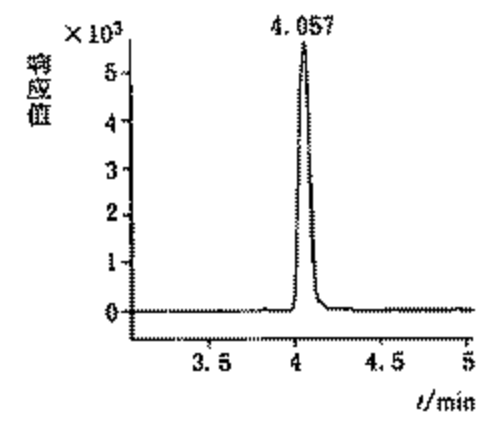
262. 另丁津
(sebutylazine)



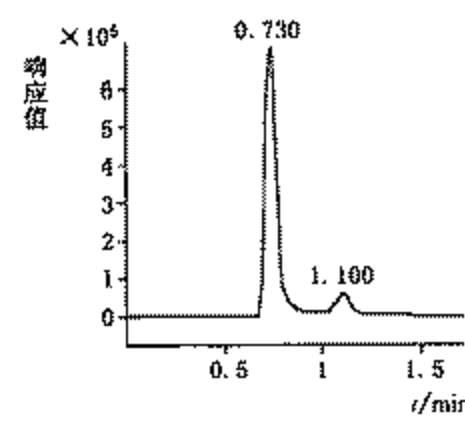
263. 畜虫避
(dibutyl succinate)



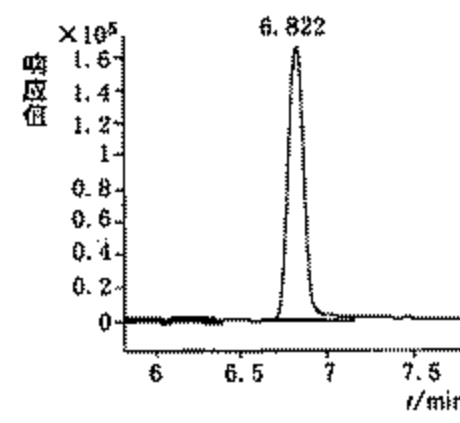
264. 牧草胺
(tebutam)



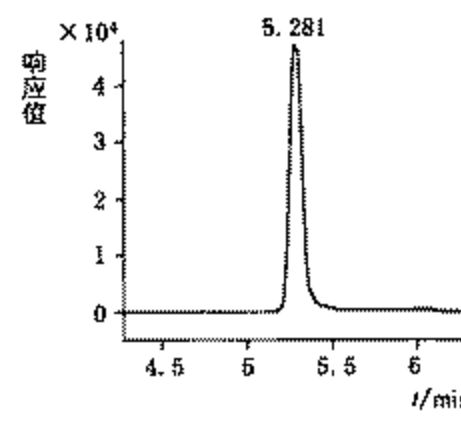
265. 久效威亚砷
(thiofanox-sulfoxide)



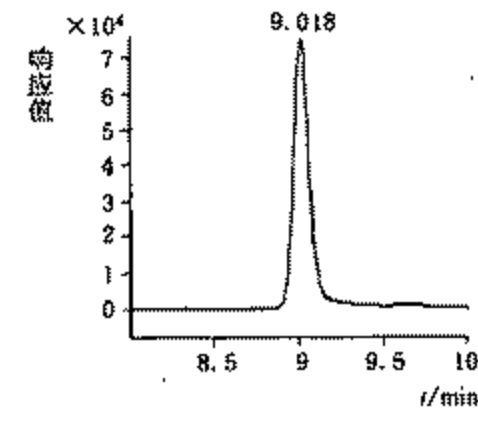
266. 杀螟丹
(cartap hydrochloride)



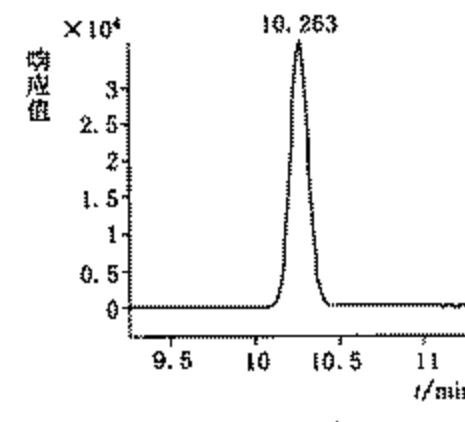
267. 虫螨畏
(methacrifos)



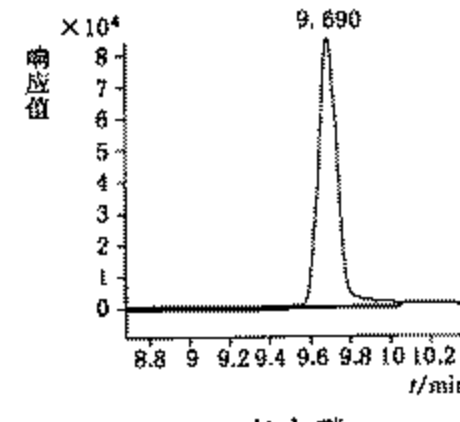
268. 咪唑嗪
(triazoxide)



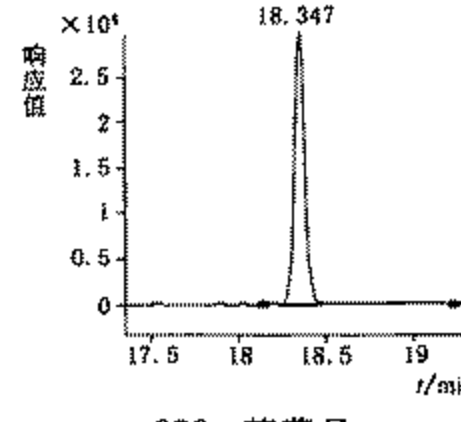
269. 虫线磷
(thionazin)



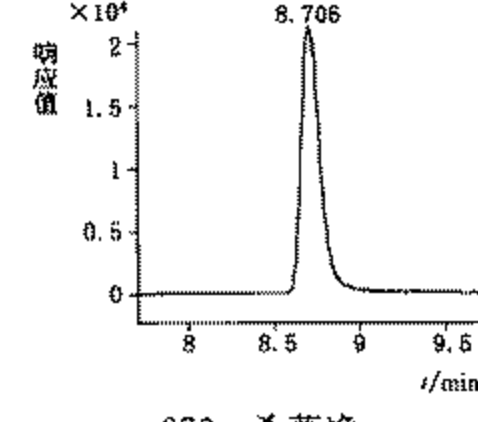
270. 利谷隆
(linuron)



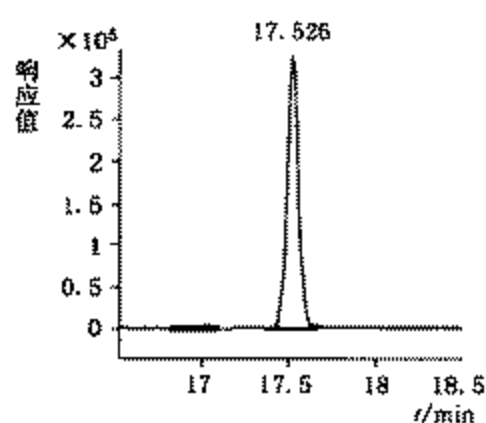
271. 庚虫磷
(heptanophos)



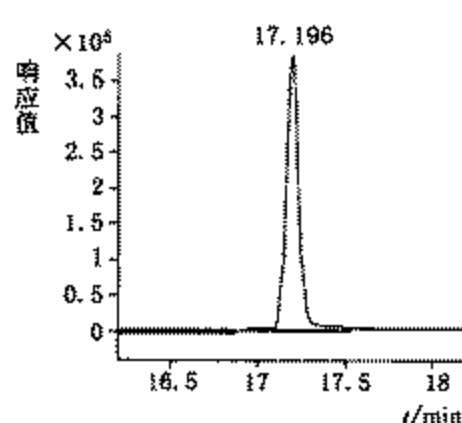
272. 苄草丹
(prosulfocarb)



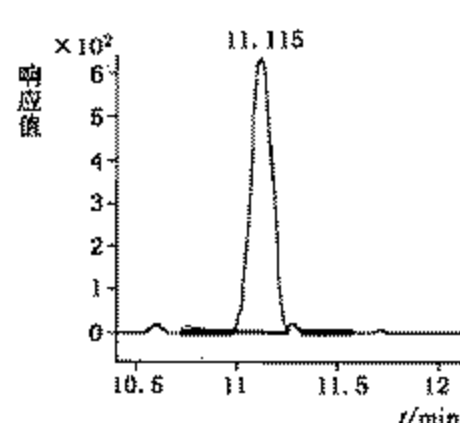
273. 杀草净
(dipropetryn)



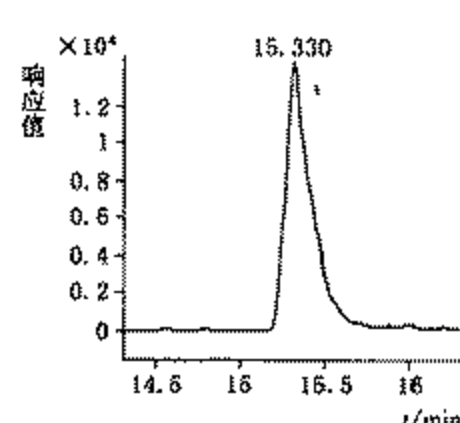
274. 禾草丹
(thiobencarb)



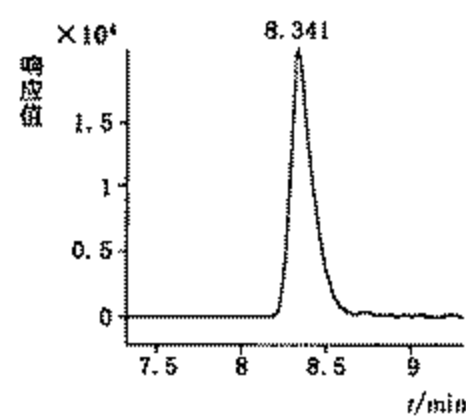
275. 三正丁基磷酸盐
(tri-*n*-butyl phosphate)



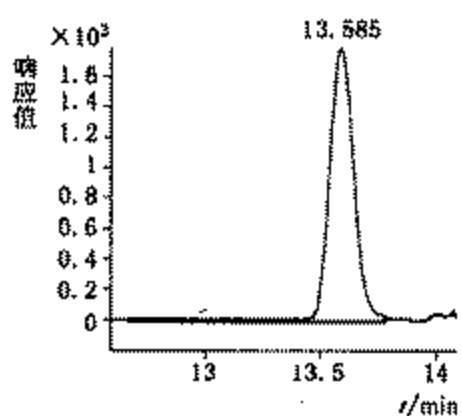
276. 甲草胺
(alachlor)



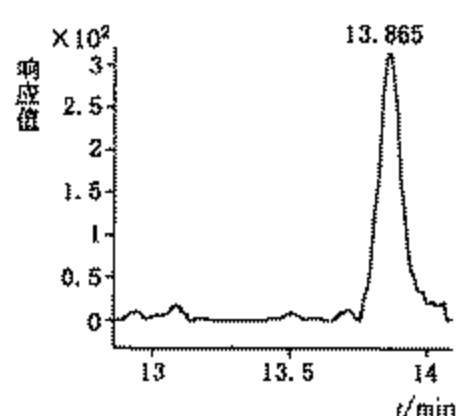
277. 硫线磷
(cadusafos)



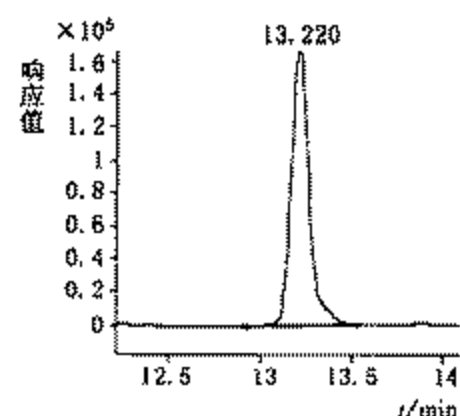
278. 吡唑草胺
(metazachlor)



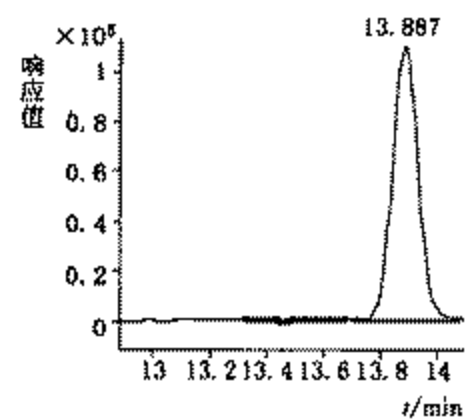
279. 胺丙畏
(propetamphos)



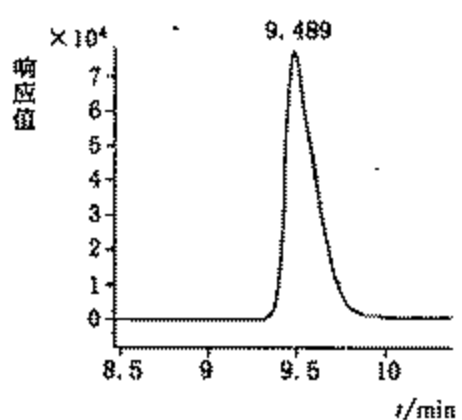
280. 特丁硫磷
(terbufos)



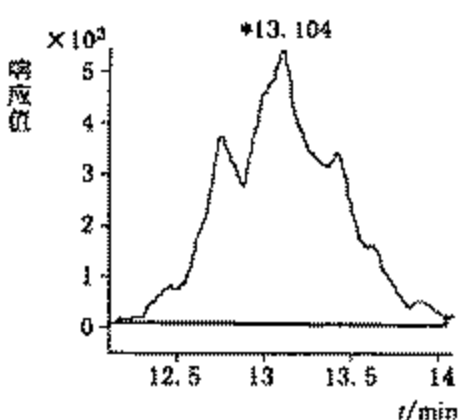
281. 硅氟唑
(simeconazole)



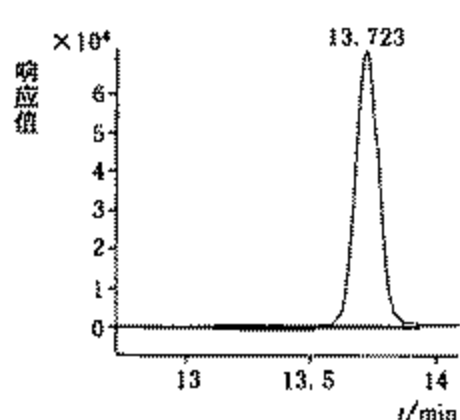
282. 三唑酮
(triadimefon)



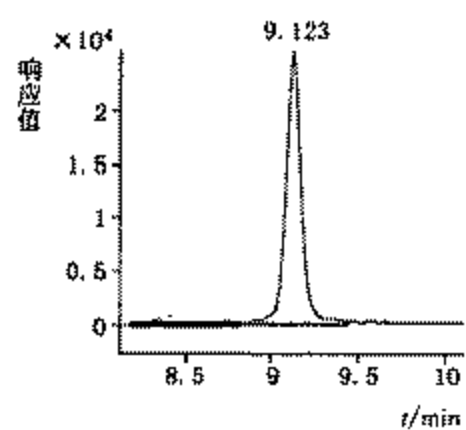
283. 甲拌磷砜
(phorate sulfone)



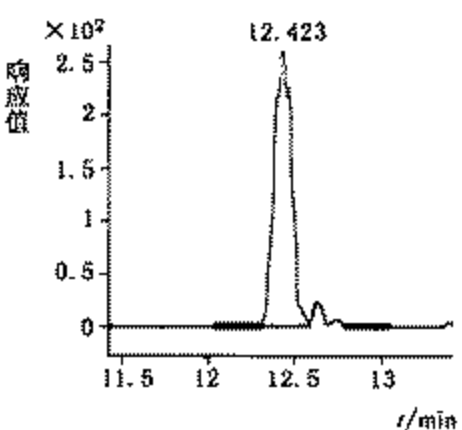
284. 十三吗琳
(tridemorph)



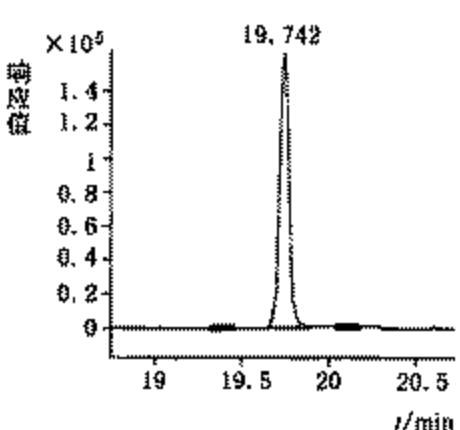
285. 苯噻酰草胺
(mefenacet)



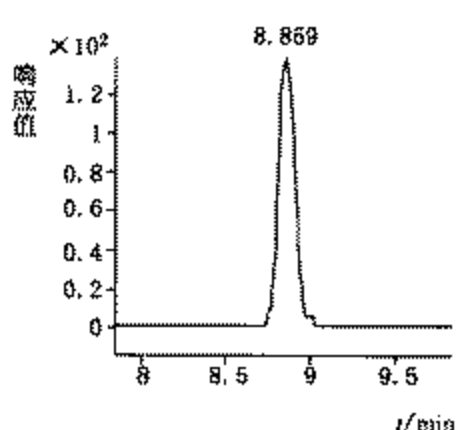
286. 丁苯吗琳
(fenpropimorph)



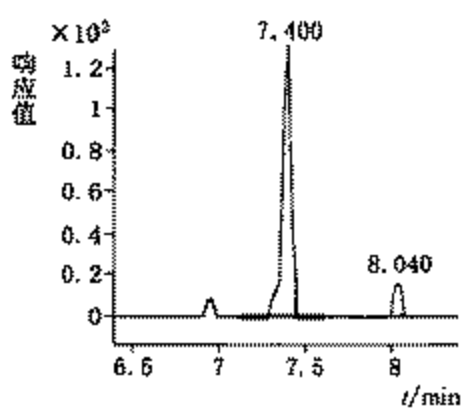
287. 戊唑醇
(tebuconazole)



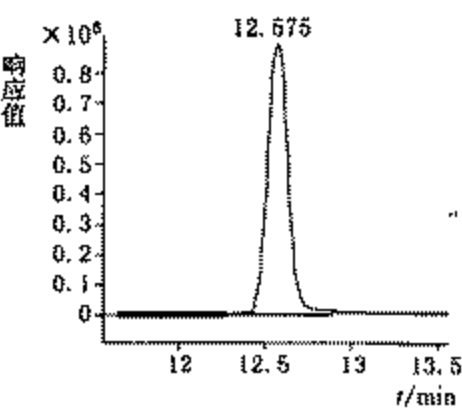
288. 异丙乐灵
(isopropalin)



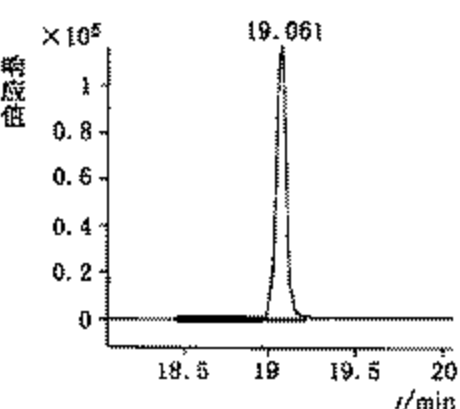
289. 氟苯嘧啶醇
(nuarimol)



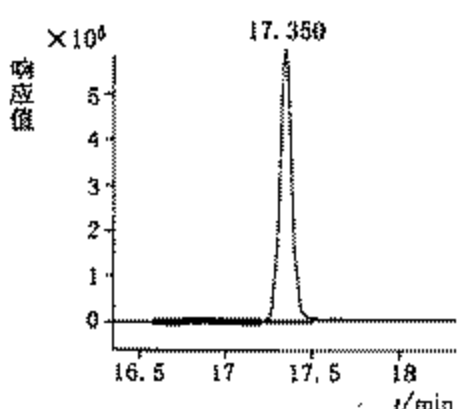
290. 乙嘧酚磺酸酯
(bupirimate)



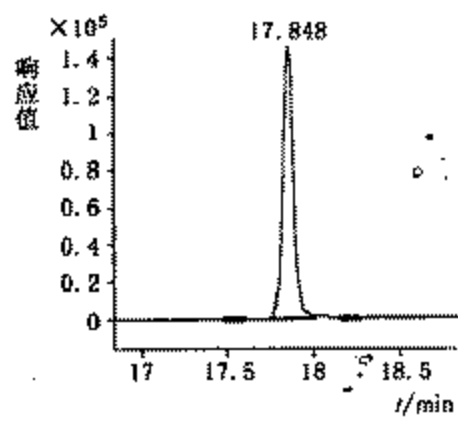
291. 保棉磷
(azinphos-methyl)



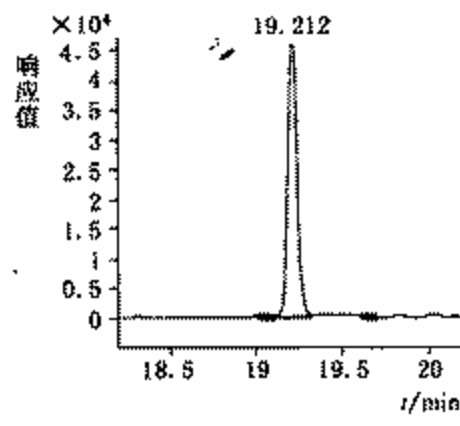
292. 丁基嘧啶磷
(tebupirimfos)



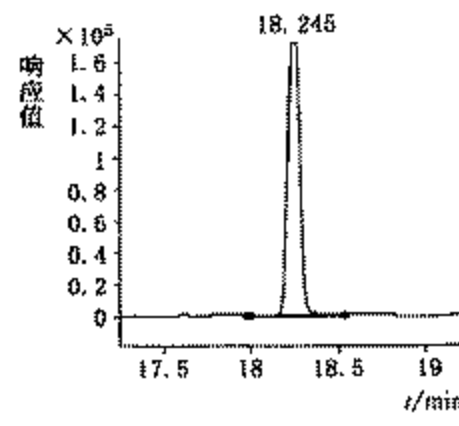
293. 稻丰散
(phenthoate)



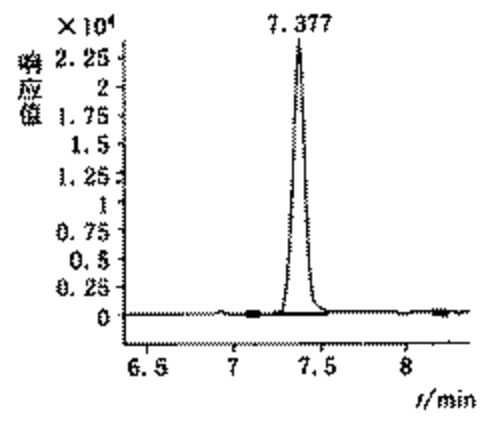
294. 治螟磷
(sulfotep)



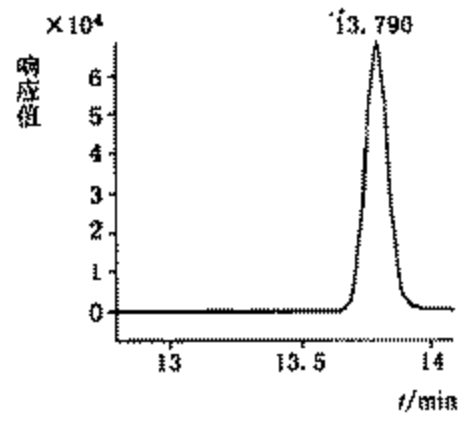
295. 硫丙磷
(sulprofos)



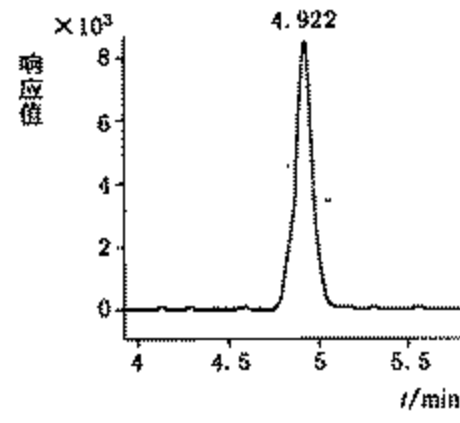
296. 苯硫磷
(EPN)



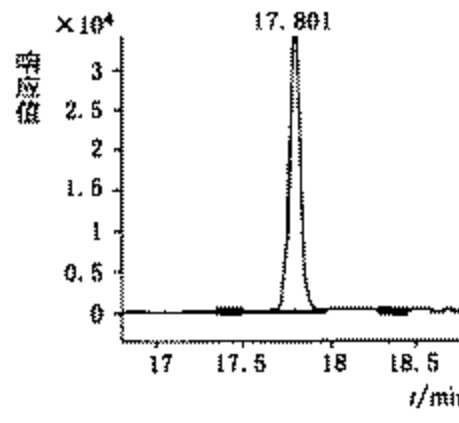
297. 甲基吡啶磷
(azamethiphos)



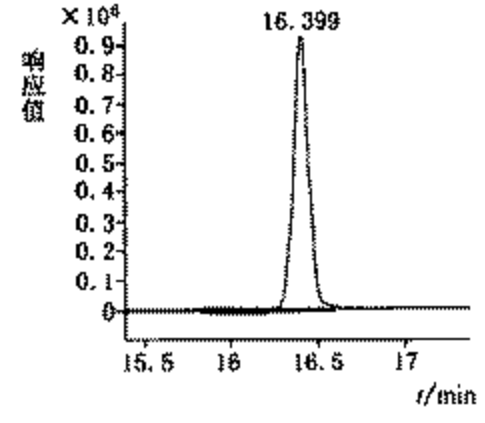
298. 烯唑醇
(diniconazole)



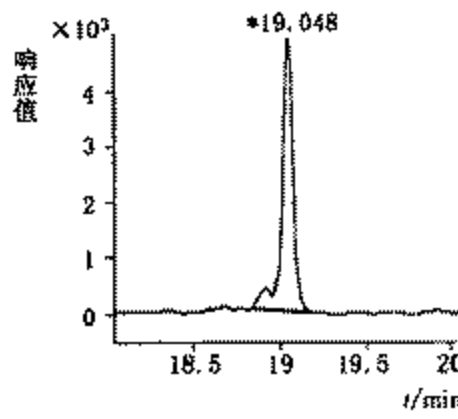
299. 唑啉磺草胺
(flumetsulam)



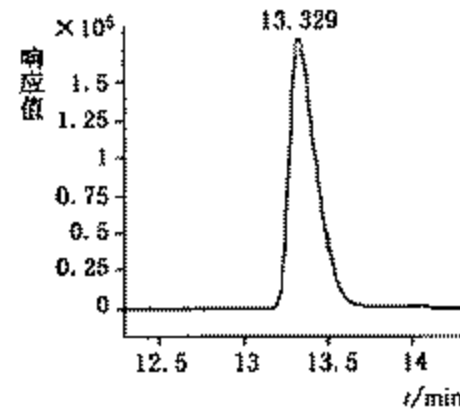
300. 纹枯脲
(pencycuron)



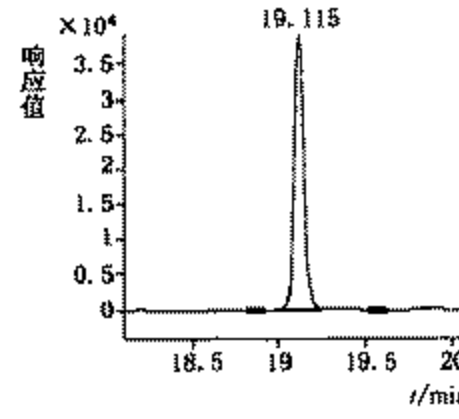
301. 灭蚜磷
(mecarbam)



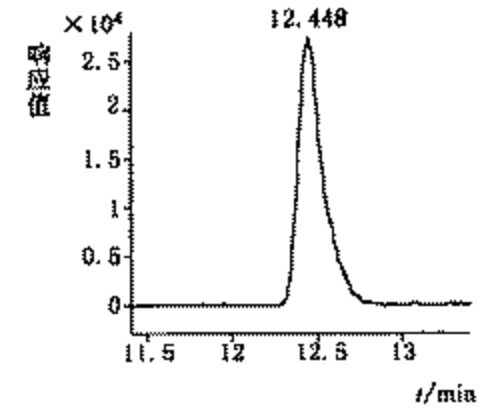
302. 苯草酮
(tralkoxydim)



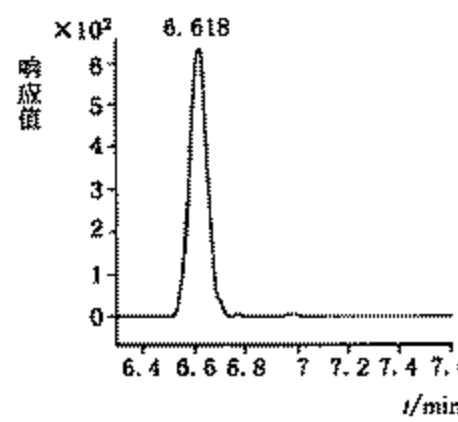
303. 马拉硫磷
(malathion)



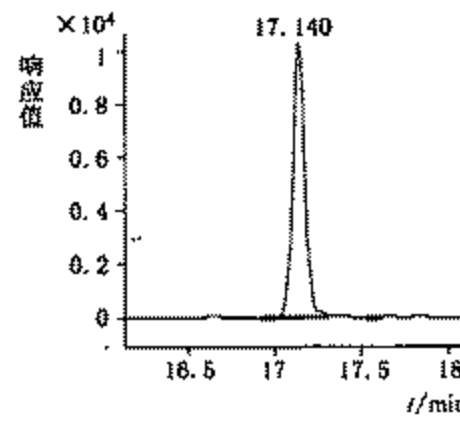
304. 稗草畏
(pyributicarb)



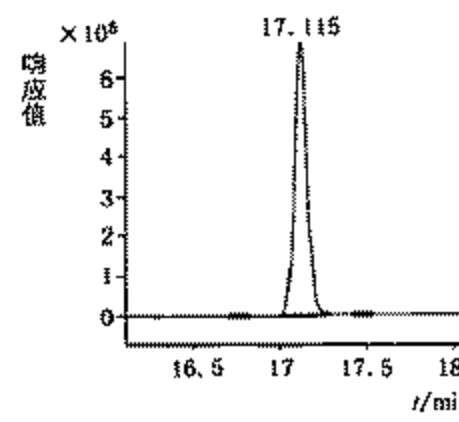
305. 吡啶硫磷
(pyridaphenthion)



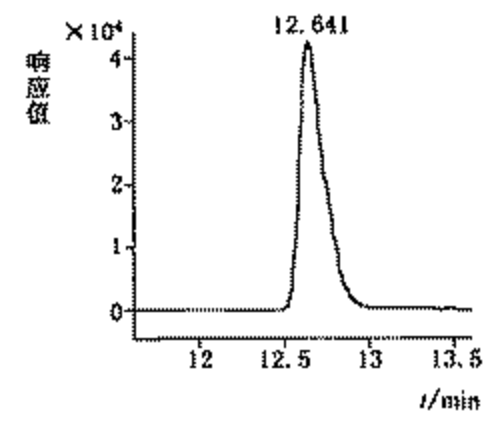
306. 硫双威
(thiodicarb)



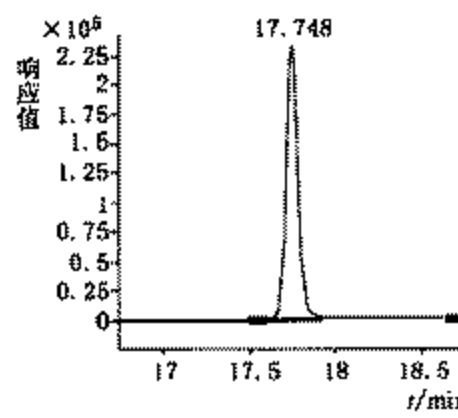
307. 吡唑硫磷
(pyraclofos)



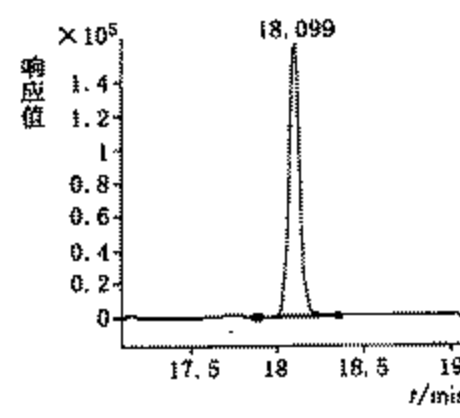
308. 啮氧菌酯
(picoxystrobin)



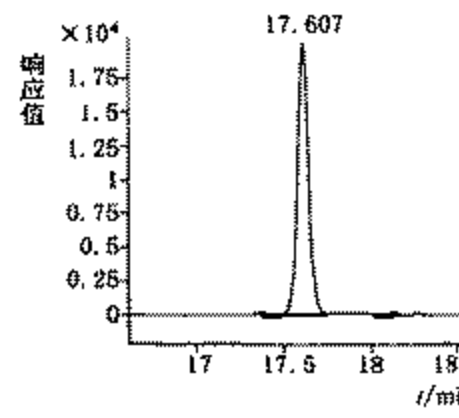
309. 四氟醚唑
(tetraconazole)



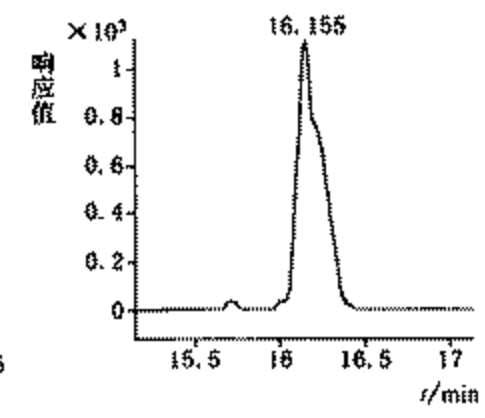
310. 吡唑解草酯
(mefenpyr-diethyl)



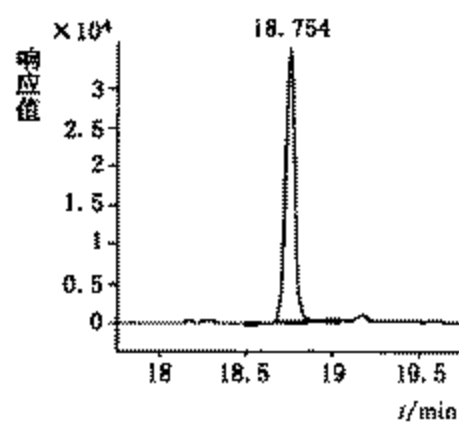
311. 丙溴磷
(profenfos)



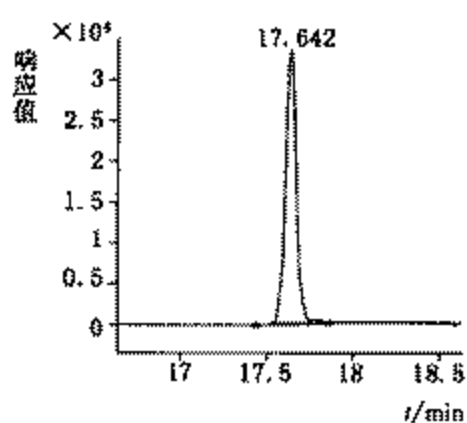
312. 百克敏
(pyraclostrobin)



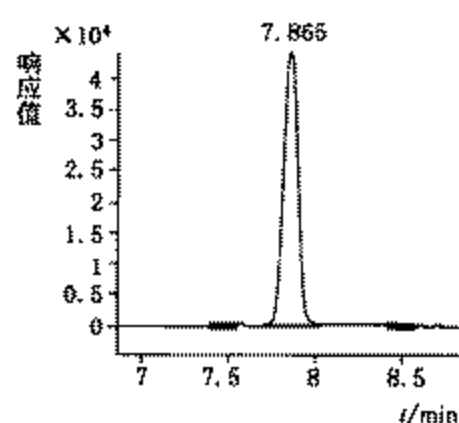
313. 烯酰吗啉
(dimethomorph)



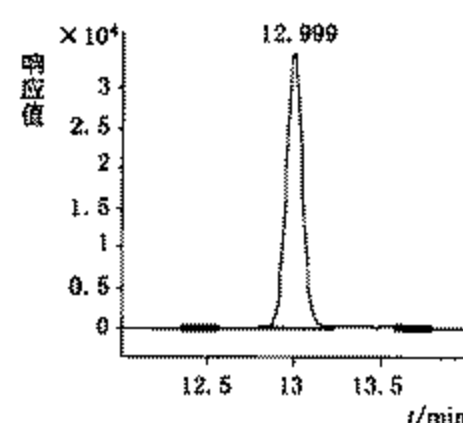
314. 噁噁菊酯
(kadethrin)



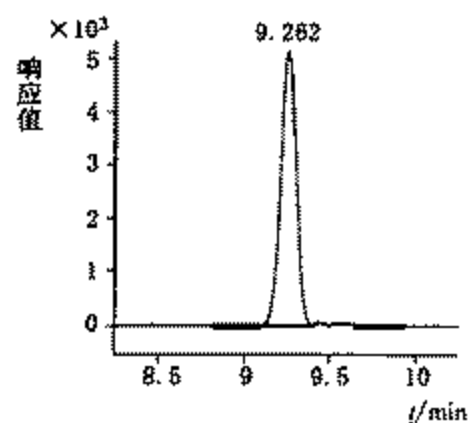
315. 噁唑烟酸
(thiazopyr)



316. 醚黄隆
(cinosulfuron)

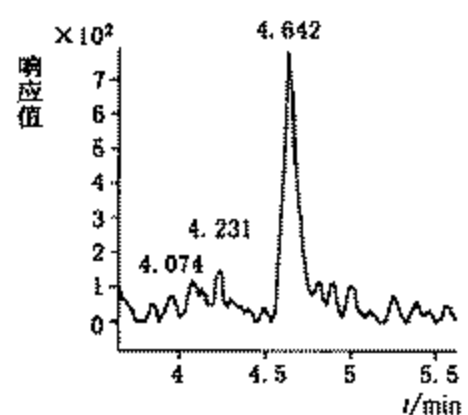


317. 吡啶磺隆
(pyrazosulfuron-ethyl)

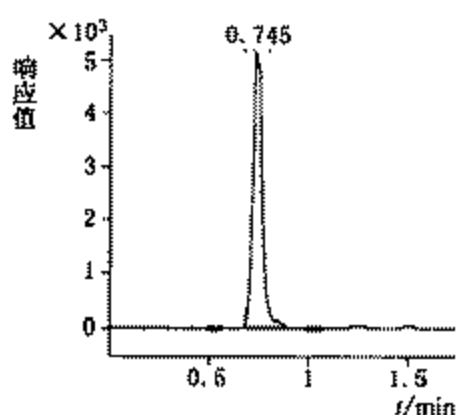


318. 磺草胺唑
(metosulam)

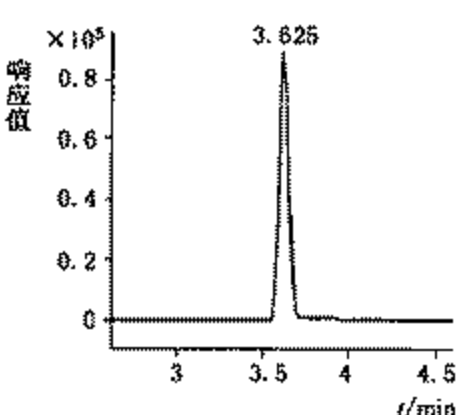
E 组



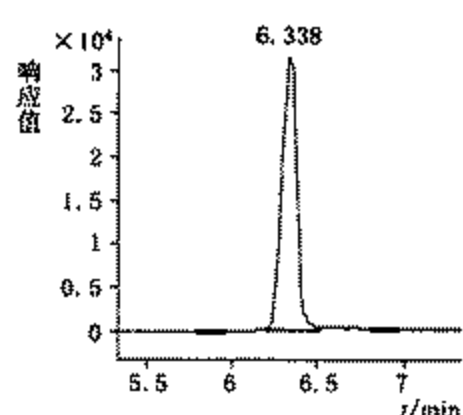
319. 4-氨基吡啶
(4-aminopyridine)



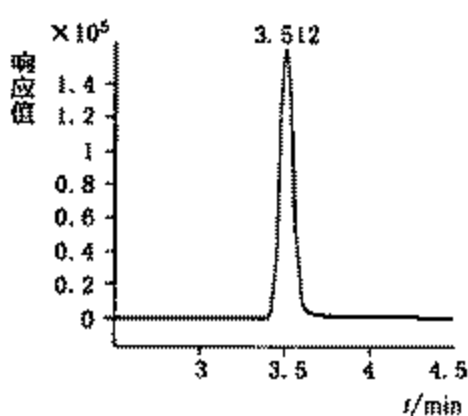
320. 矮壮素
(chlormequat)



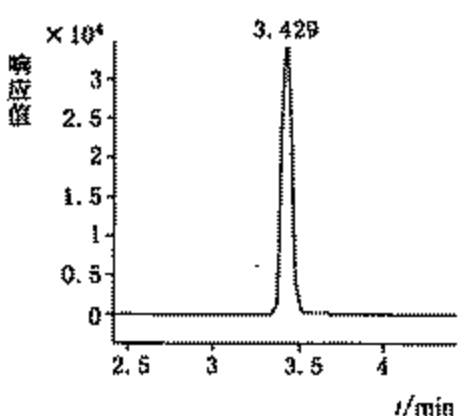
321. 灭多威
(methomyl)



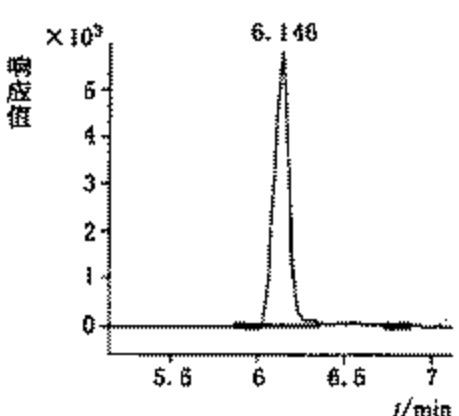
322. 咯嗉酮
(pyroquilon)



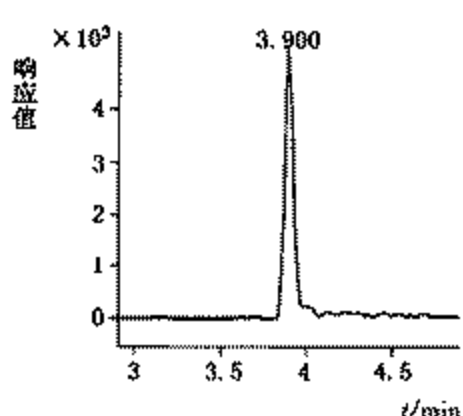
323. 麦穗灵
(fuberidazole)



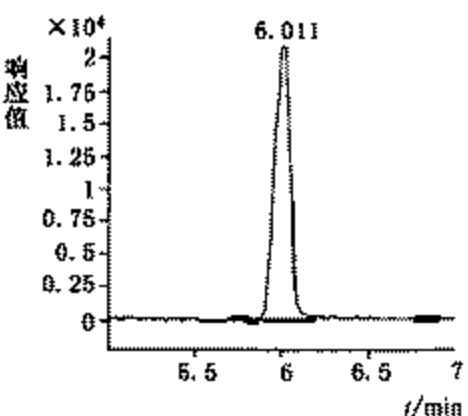
324. 丁脲酰胺
(isocarbamid)



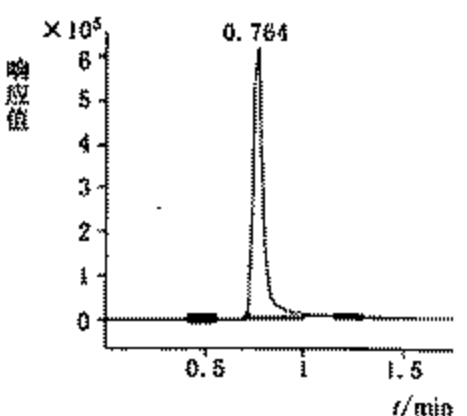
325. 丁酮威
(butocarboxim)



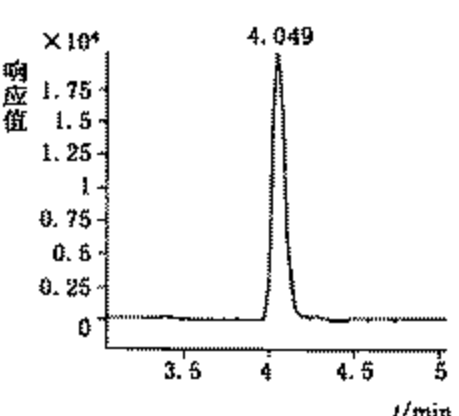
326. 杀虫脒
(chlordimeform)



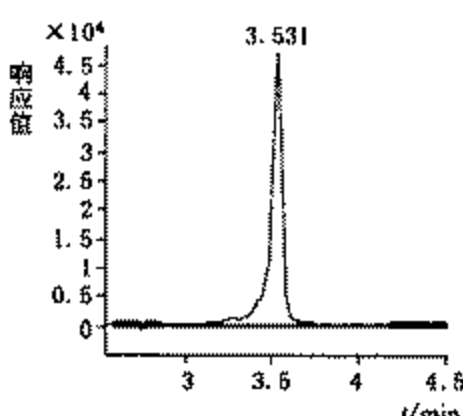
327. 霜脲氰
(cymoxanil)



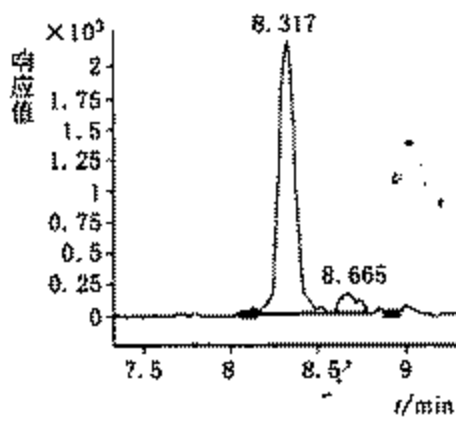
328. 灭害威
(aminocarb)



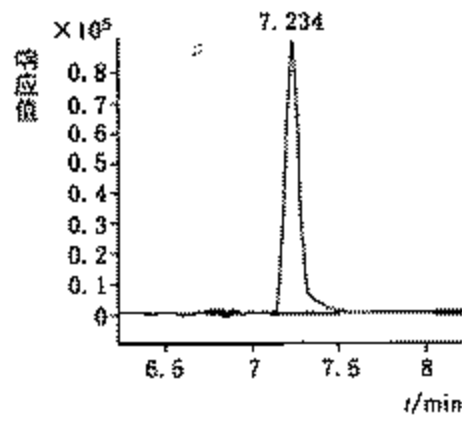
329. 甲菌定
(dimethirimol)



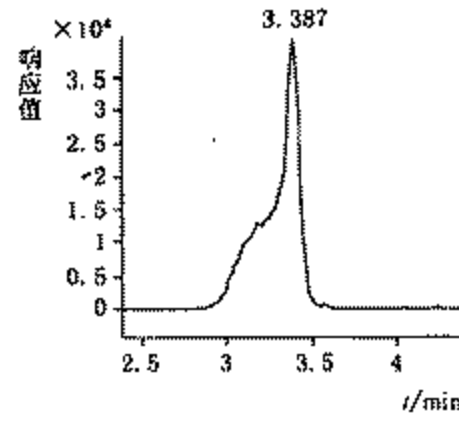
330. 氧乐果
(omethoate)



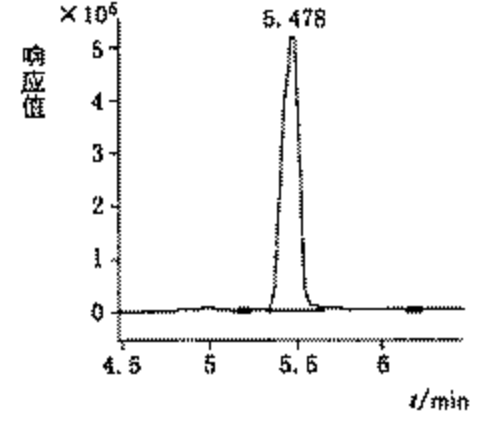
331. 乙氧喹啉
(ethoxyquin)



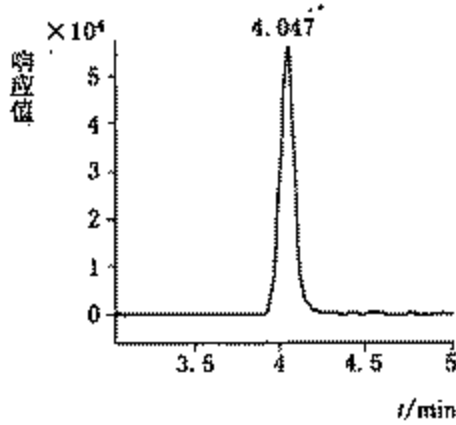
332. 敌敌畏
(dichlorvos)



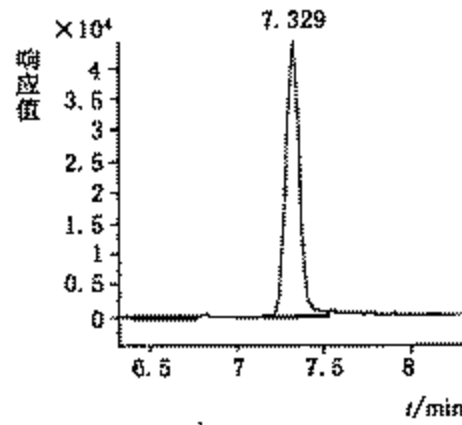
333. 涕灭威砜
(aldicarb sulfone)



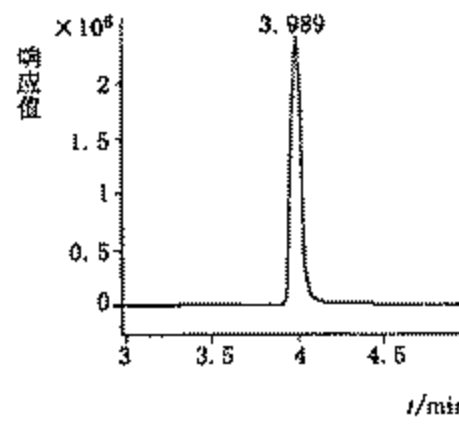
334. 二氧威
(dioxacarb)



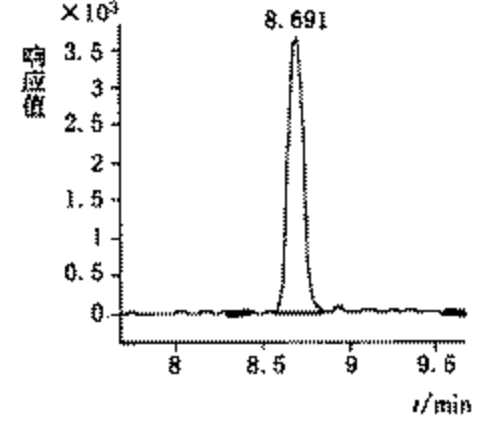
335. 苄基腺嘌呤
(benzyladenine)



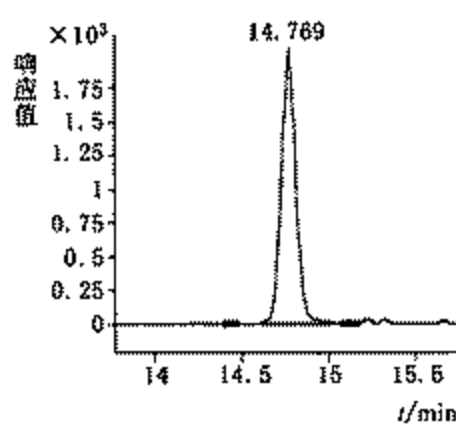
336. 甲基内吸磷
(demeton-s-methyl)



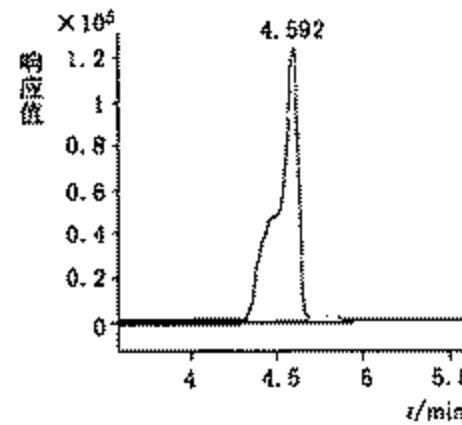
337. 乙硫苯威亚砜
(ethiofencarb-sulfoxide)



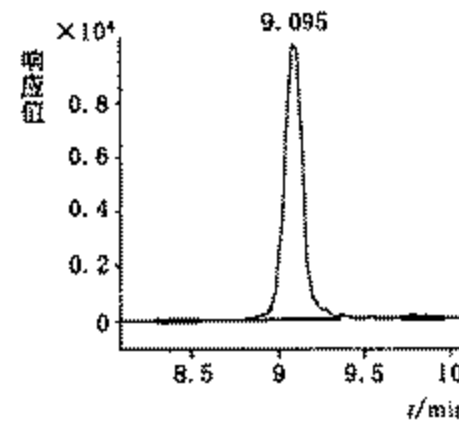
338. 甲基乙拌磷
(thiometon)



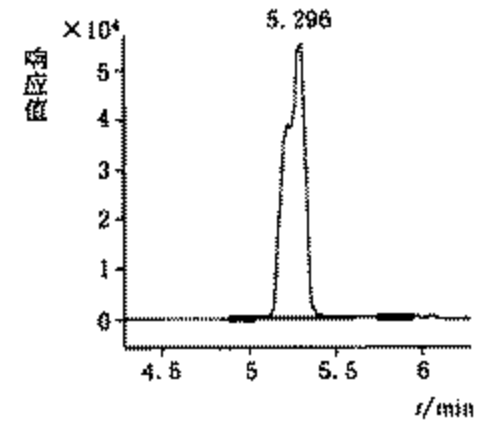
339. 灭菌丹
(folpet)



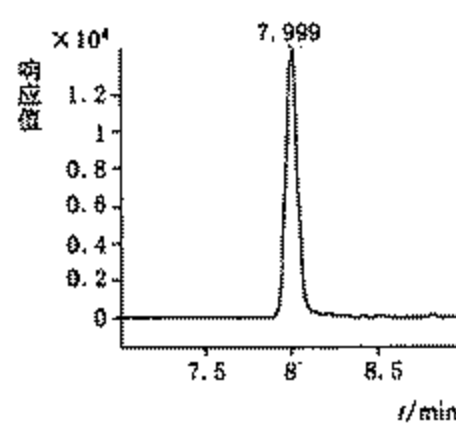
340. 甲基内吸磷砜
(demeton-s-methyl sulfone)



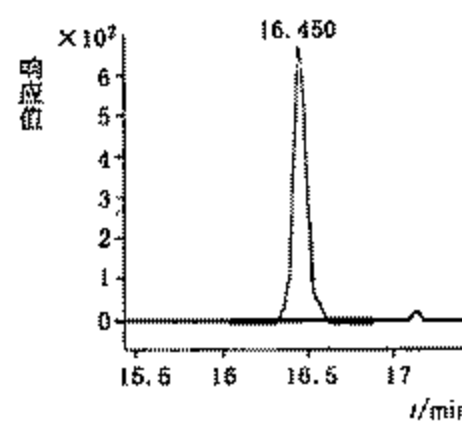
341. 苯锈定
(fenpropidin)



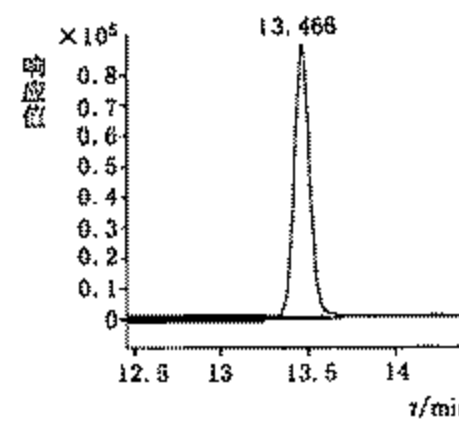
342. 甲咪唑烟酸
(imazapic)



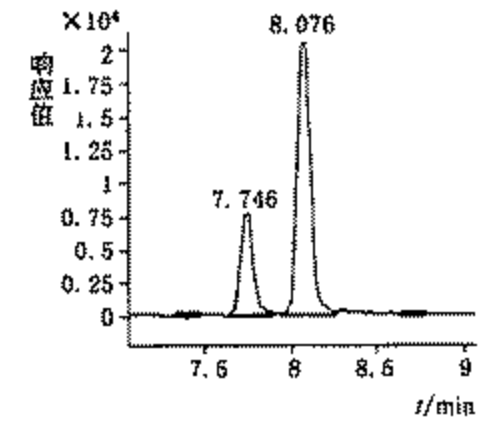
343. 对氧磷
(paraoxon-ethyl)



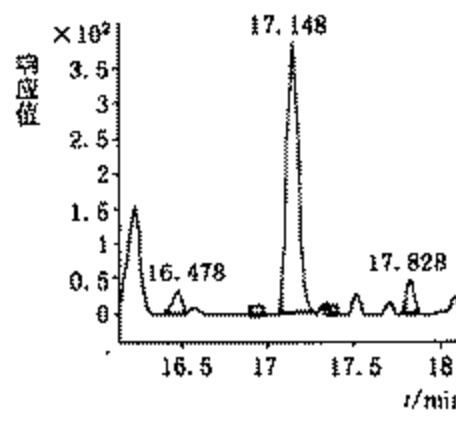
344. 乙烯菌核利
(vinclozolin)



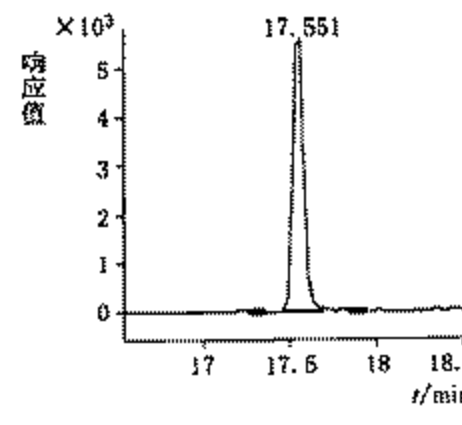
345. 烯效唑
(uniconazole)



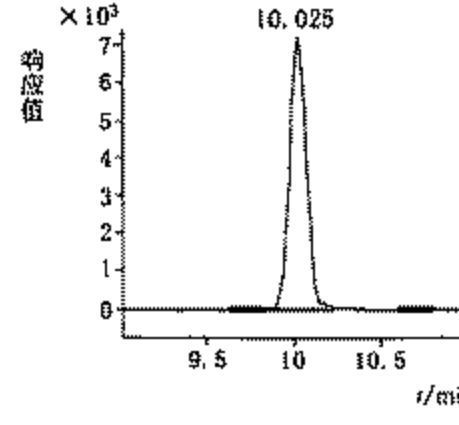
346. 吡唑啉酮
(pyrifenoxy)



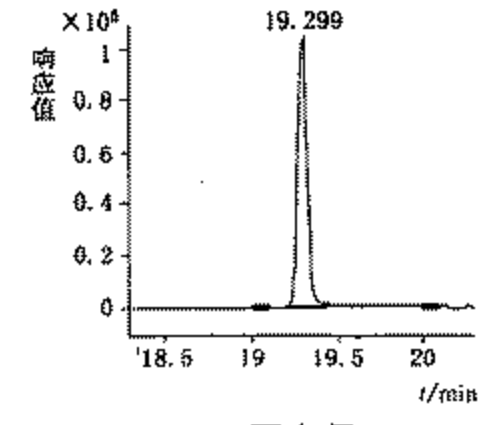
347. 异氰磷
(dicapthon)



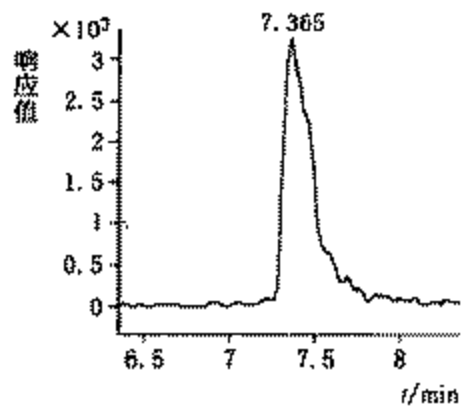
348. 四螨嗪
(clofentezine)



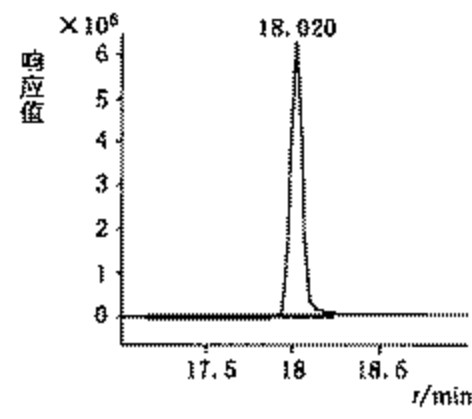
349. 氟草敏
(norflurazon)



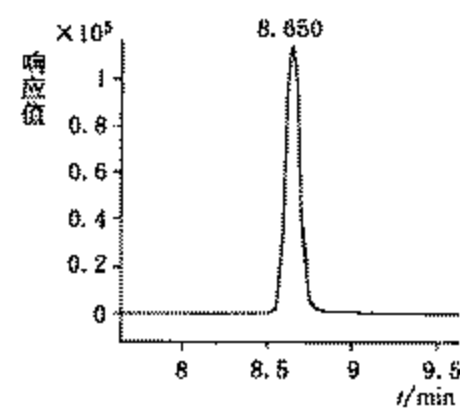
350. 野麦畏
(triallate)



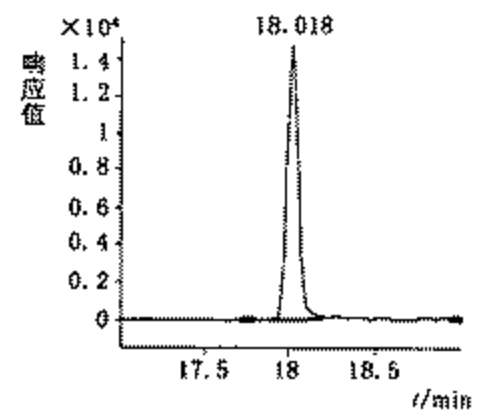
351. 福美锌
(ziram)



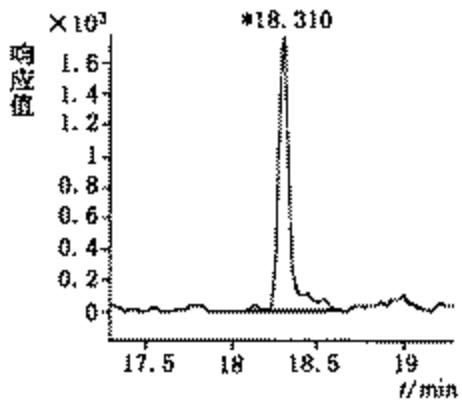
352. 苯氧喹啉
(quinoxiphen)



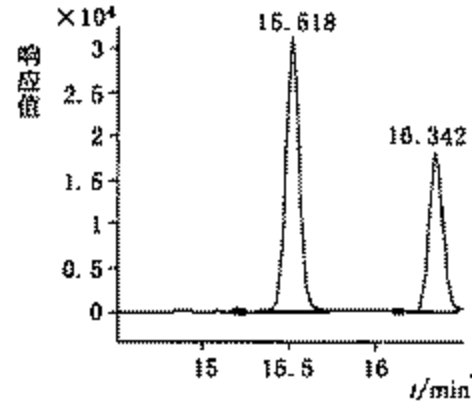
353. 倍硫磷砜
(fenthion sulfone)



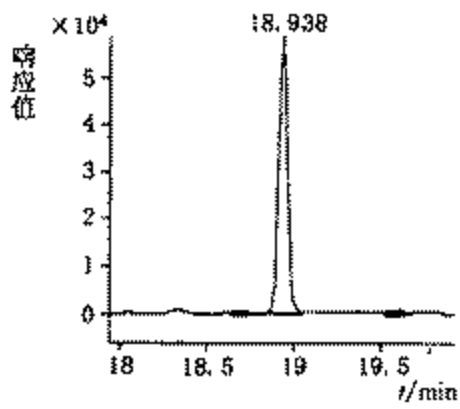
354. 氟咯草酮
(flurochloridone)



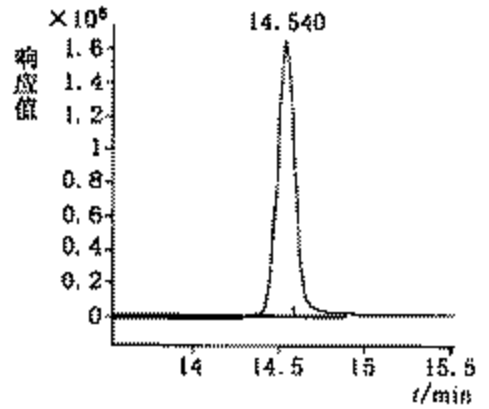
355. 酞酸苯甲基丁酯
(phthalic acid, benzyl butyl ester)



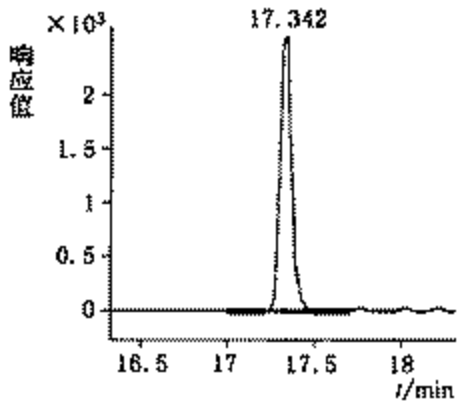
356. 氯唑磷
(isazofos)



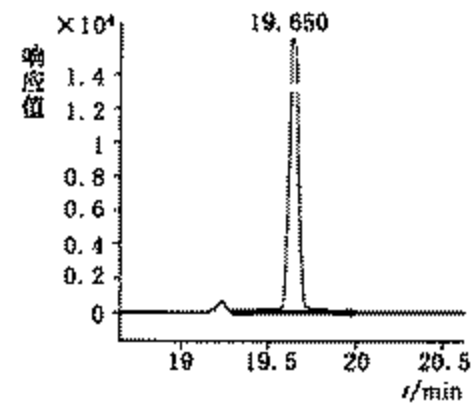
357. 除线磷
(dichlofenthion)



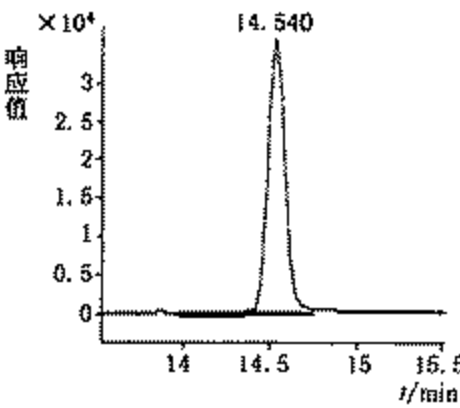
358. 特丁硫磷砜
(terbufos sulfone)



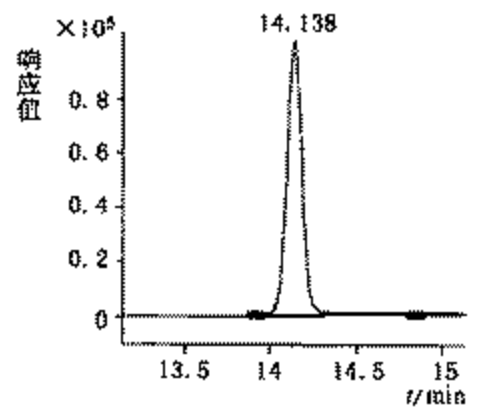
359. 敌乐胺
(dinitramine)



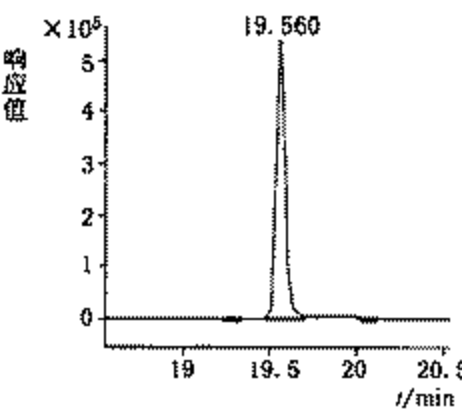
360. 毒壤磷
(trichloronat)



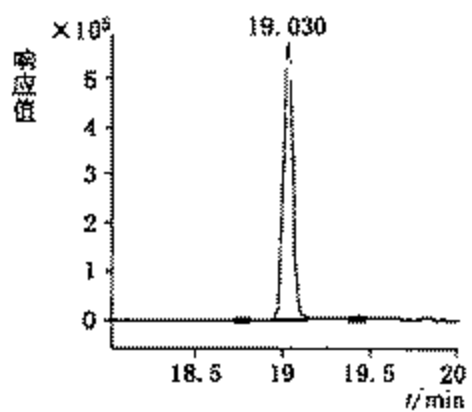
361. 苯呋菊酯
(resmethrin)



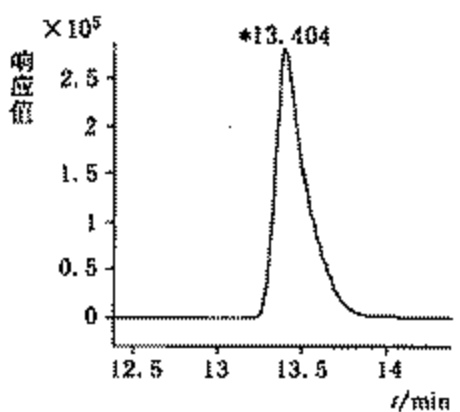
362. 啉酰菌胺
(boscalid)



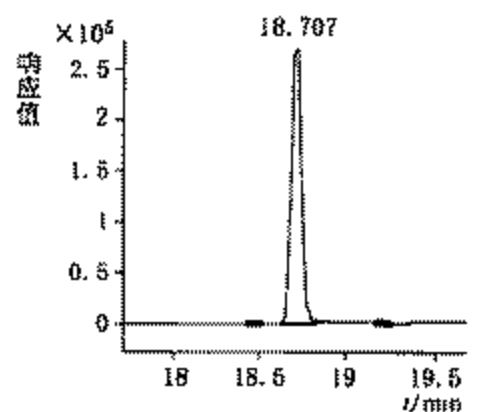
363. 甲氧菊酯
(fenpropathrin)



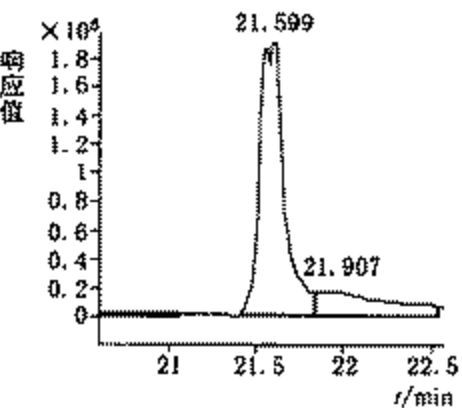
364. 噻螨酮
(hexythiazox)



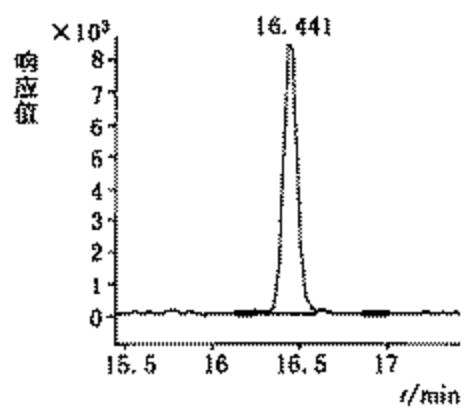
365. 啉啉啉
(pyrimidifen)



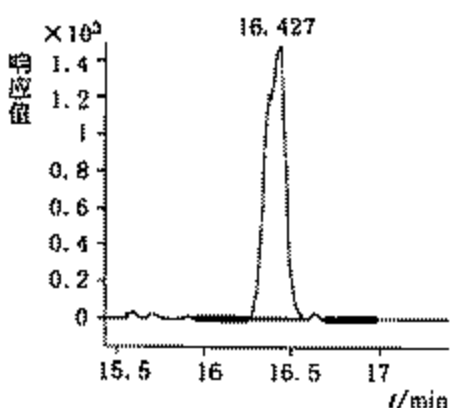
366. 呋线威
(furathiocarb)



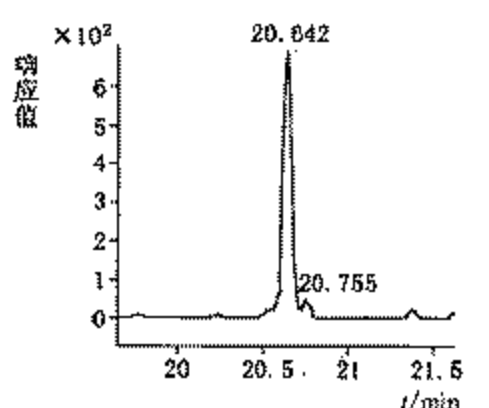
367. 反式氯菊酯
(*trans*-permethin)



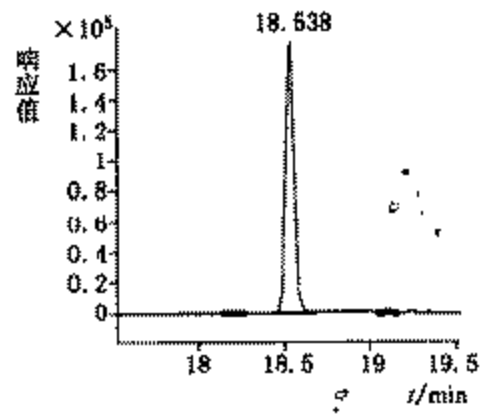
368. 苄草唑
(pyrazoxyfen)



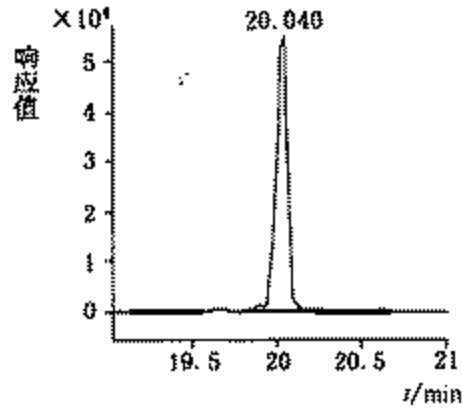
369. 啉唑啉
(flubenzimine)



370. Z-氯氟菊酯
(*zeta* cypermethrin)

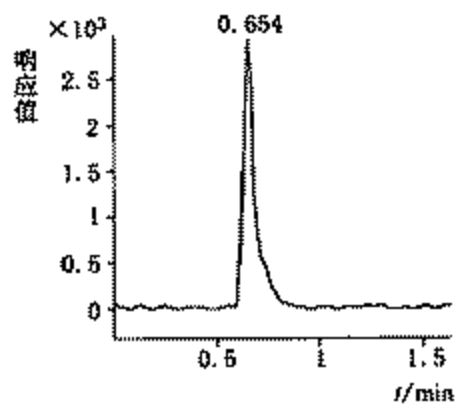


371. 氟吡乙禾灵
(haloxyfop-2-ethoxyethyl)

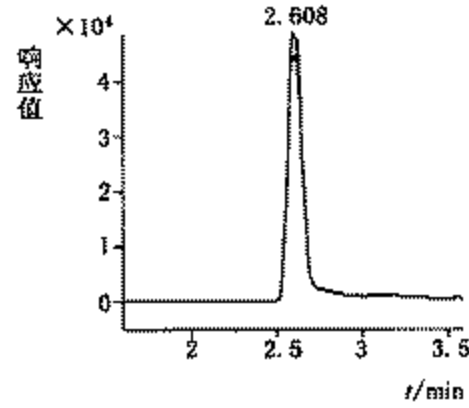


372. 氟胺吡菊酯
(tau-fluvalinate)

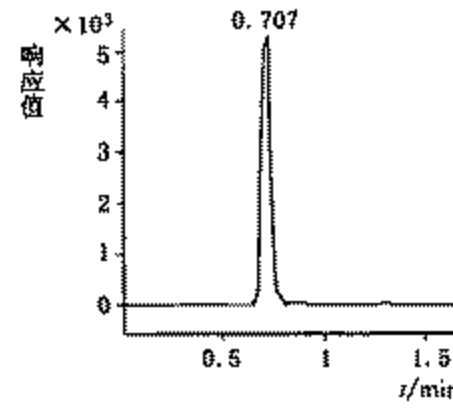
F 组



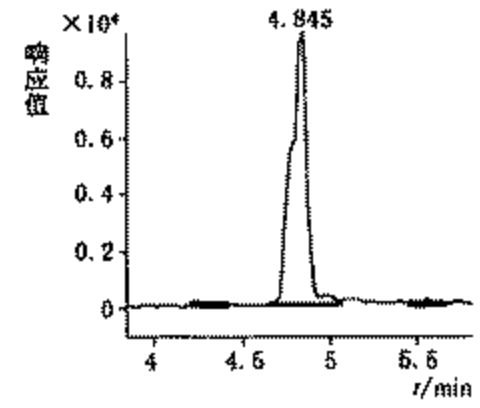
373. 叔丁基胺
(tert-butylamine)



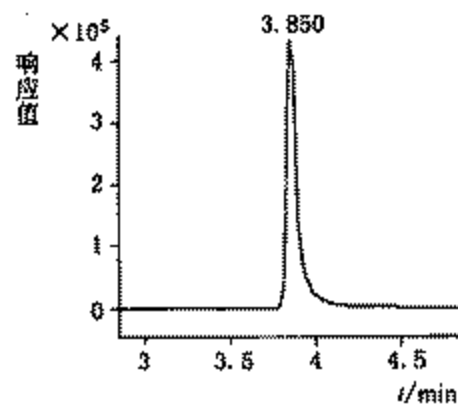
374. 噁霉灵
(hymexazol)



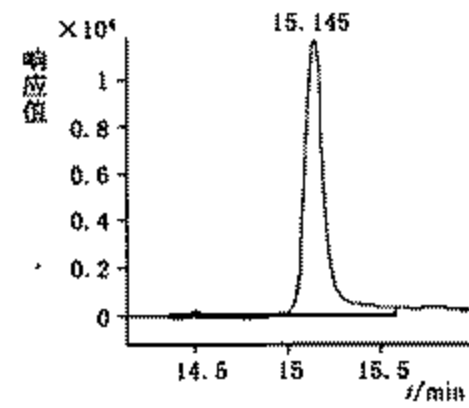
375. 矮壮素氯化物
(chlormequat chloride)



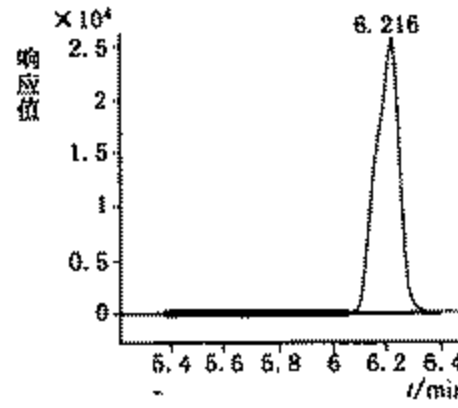
376. 邻苯二甲酰亚胺
(phthalimide)



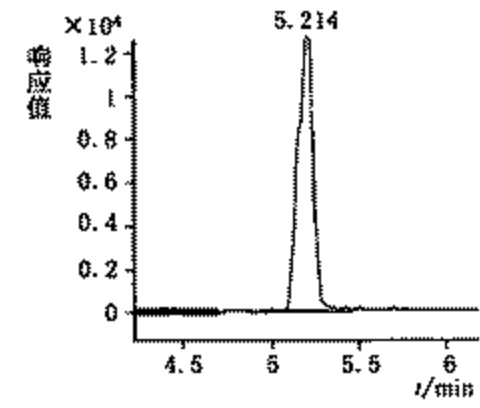
377. 甲氧磷
(dimefox)



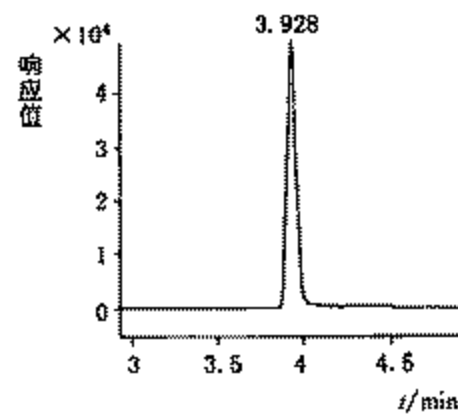
378. 二苯胺
(diphenylamin)



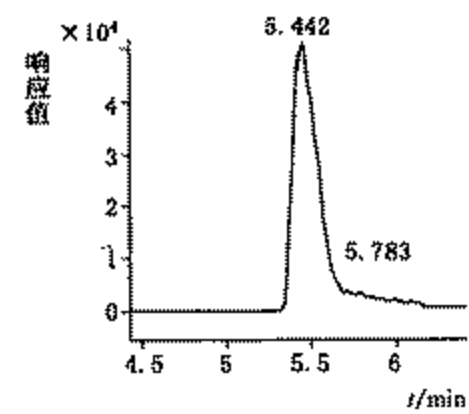
379. 1-萘基乙酰胺
(1-naphthyl acetamide)



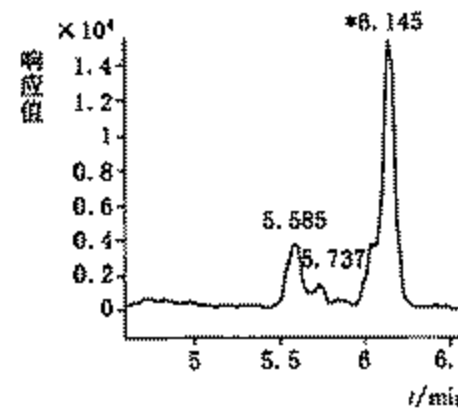
380. 脱乙基莠去津
(atrazine-desethyl)



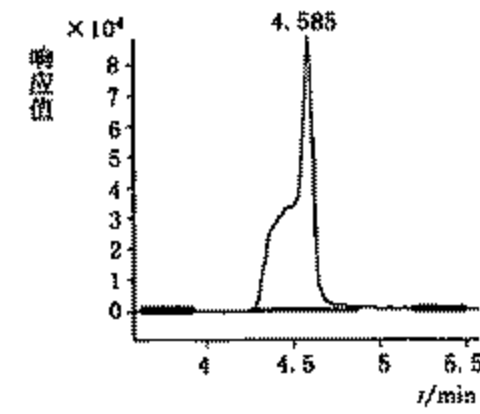
381. 2,6-二氯苯甲酰胺
(2,6-dichlorobenzamide)



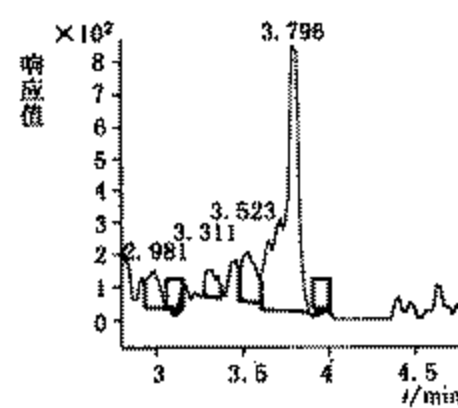
382. 涕灭威
(aldicarb)



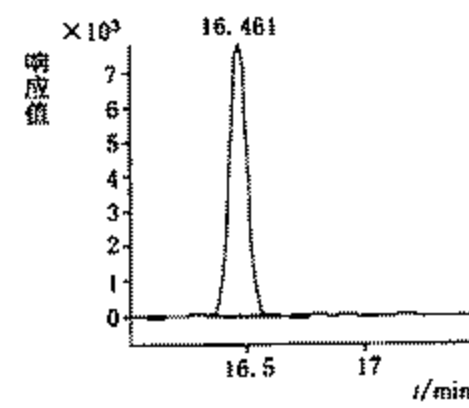
383. 邻苯二甲酸二甲酯
(dimethyl phthalate)



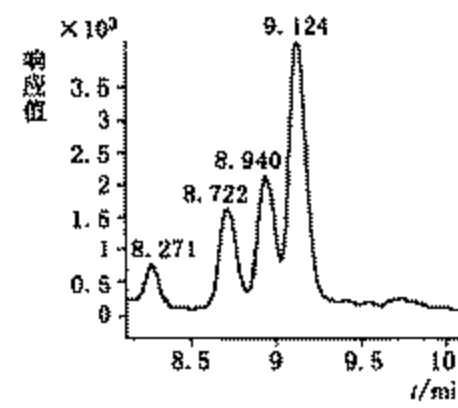
384. 西玛通
(simeton)



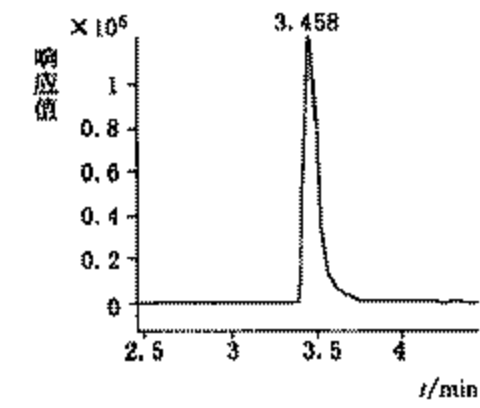
385. 呋草胺
(dinotefuran)



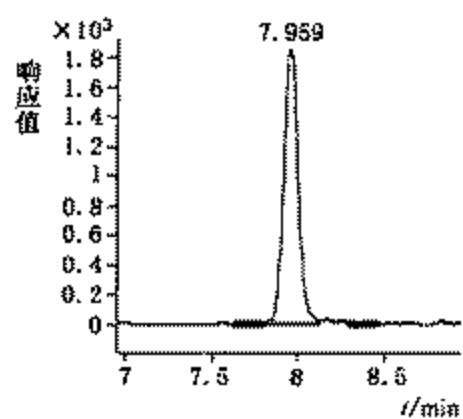
386. 克草敌
(pebulate)



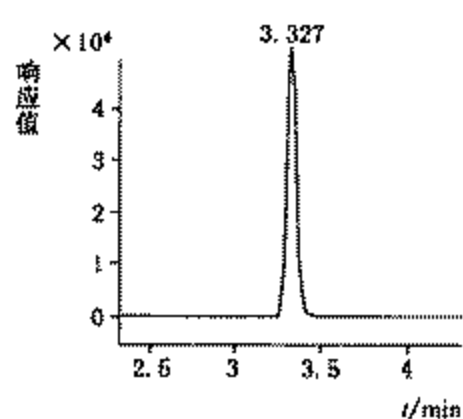
387. 蔬果磷
(dioxabenzofos)



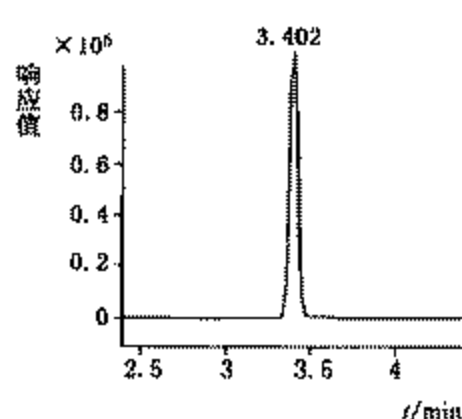
388. 杀线威
(oxamyl)



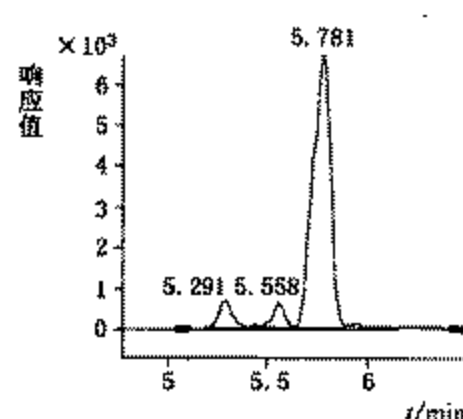
389. 甲基苯噻隆
(methabenzthiazuron)



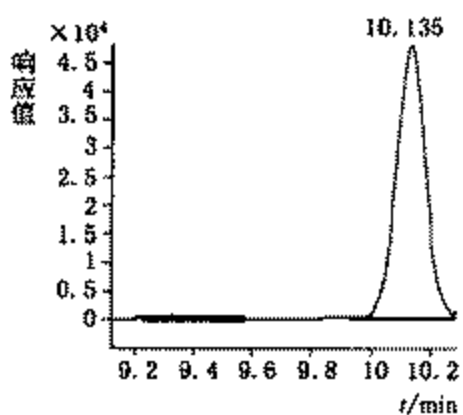
390. 丁酮砒威
(butoxycarboxim)



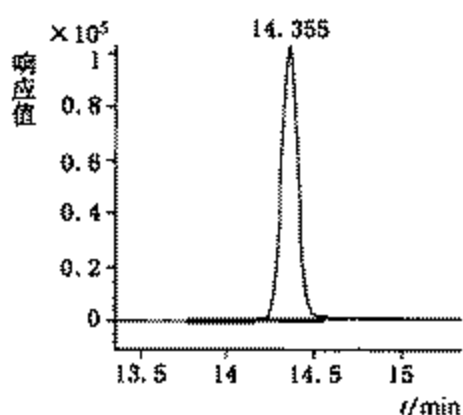
391. 甲基内吸磷亚砒
(demeton-s-methyl sulfoxide)



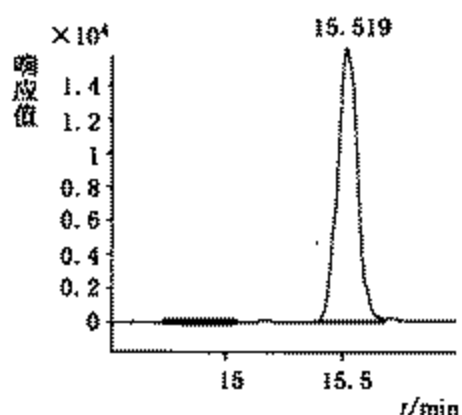
392. 硫环磷
(phosfolan)



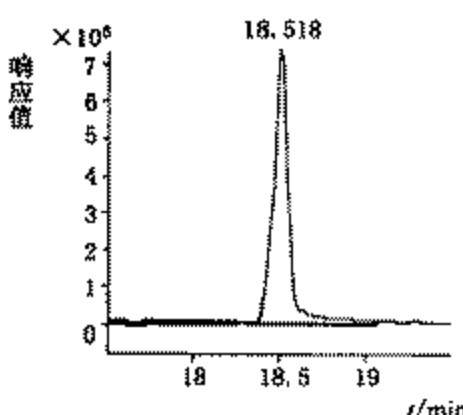
393. 氧倍硫磷
(fenthion oxon)



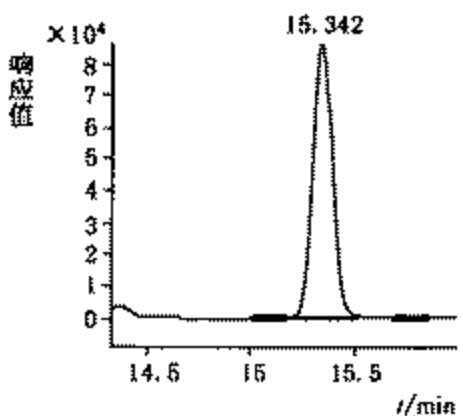
394. 萘丙胺
(napropamide)



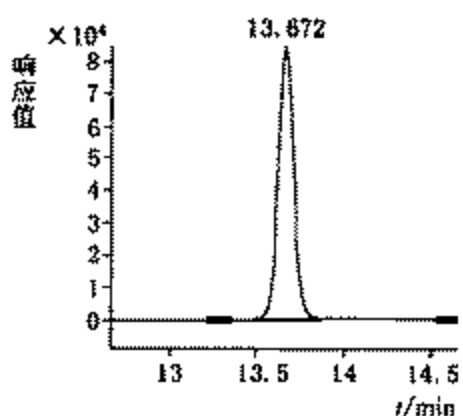
395. 杀螟硫磷
(fenitrothion)



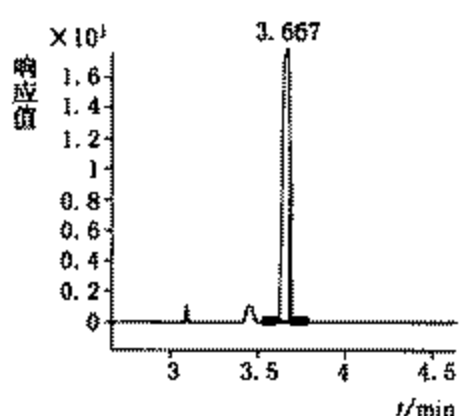
396. 酞酸二丁酯
(phthalic acid, dibutyl ester)



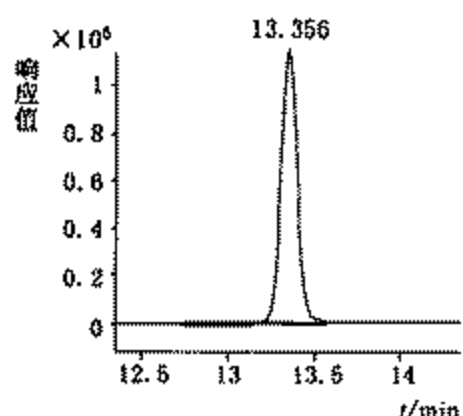
397. 腐霉利
(procymidone)



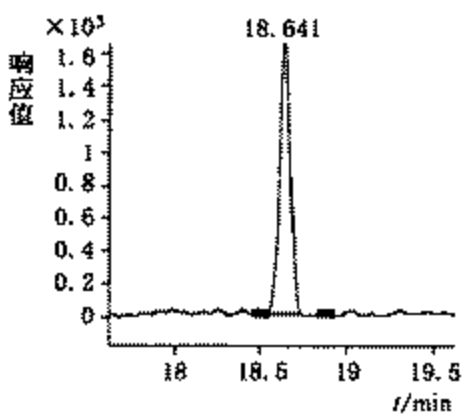
398. 可灭隆
(cumyluron)



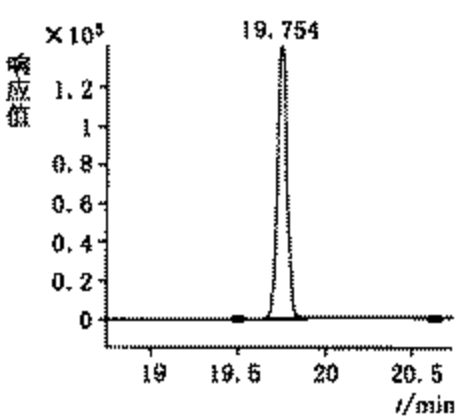
399. 甲氧咪草烟
(imazamox)



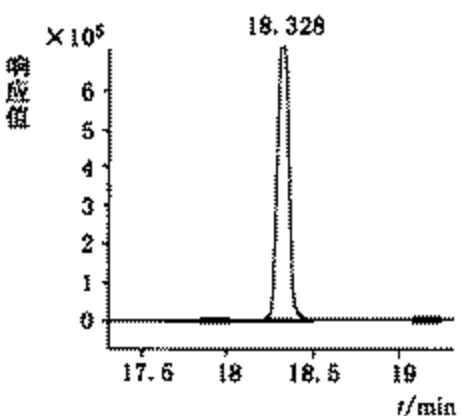
400. 亚胺硫磷
(phosmet)



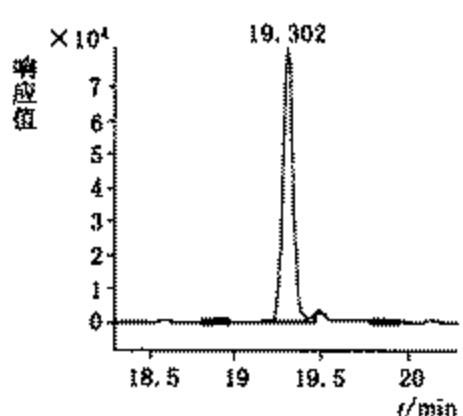
401. 皮蝇磷
(ronnel)



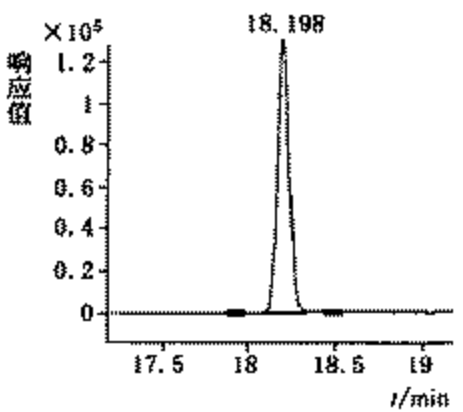
402. —
(phthalic acid, biscyclohexyl ester)



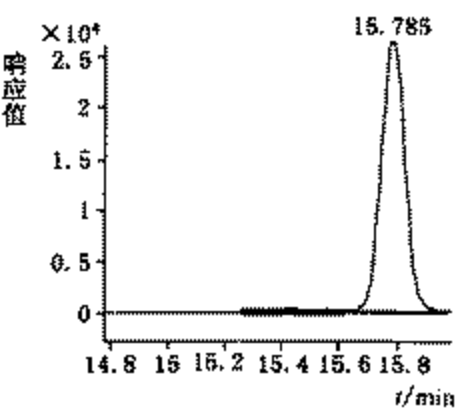
403. 吡螨胺
(tebufenpyrad)



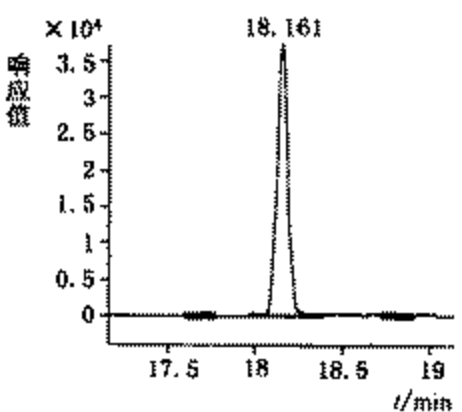
404. 虫螨磷
(chlorthiophos)



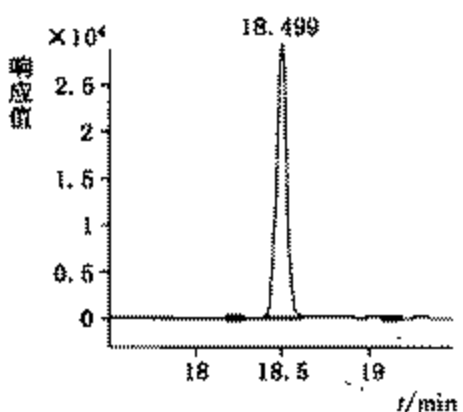
405. 氯亚胺硫磷
(dialifos)



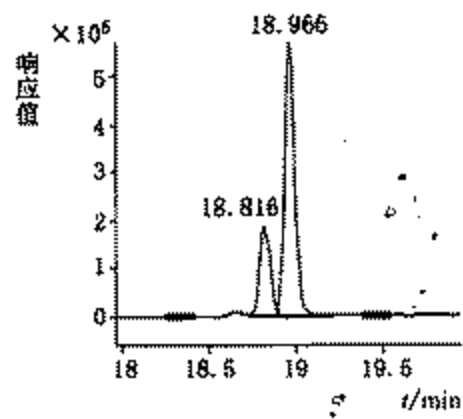
406. 鱼藤酮
(rotenone)



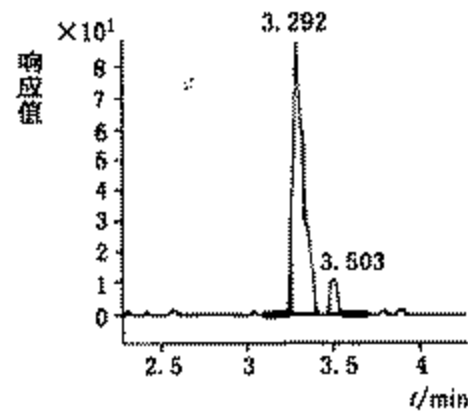
407. 亚胺唑
(imibenconazole)



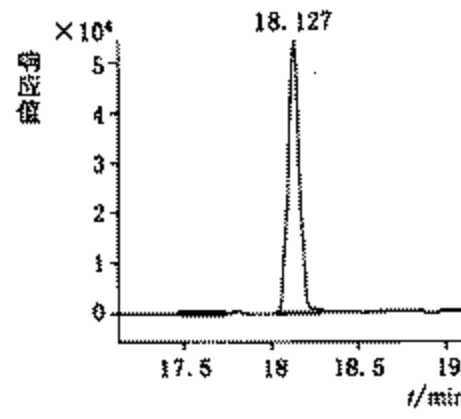
408. 噁草酸
(propaquizafop)



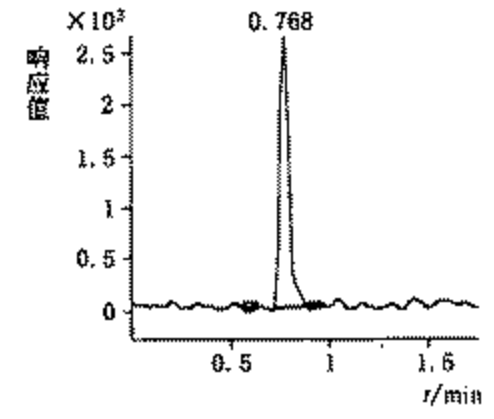
409. 乳氟禾草灵
(lactofen)



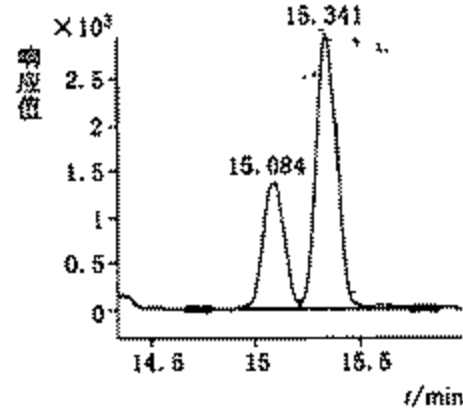
410. 2,3,4,5-四氯苯胺
(2,3,4,5-tetrachloroaniline)



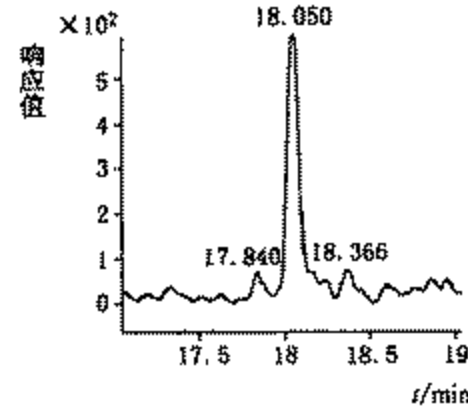
411. 苯螨特
(benzoximate)



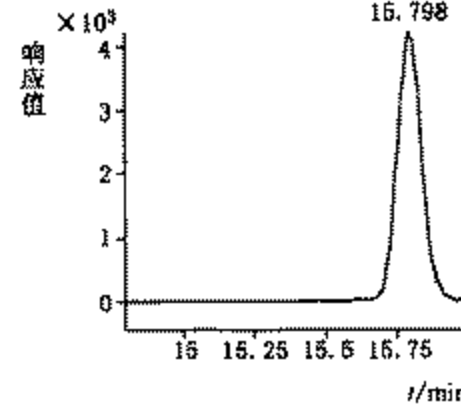
412. 地乐酯
(dinoseb acetate)



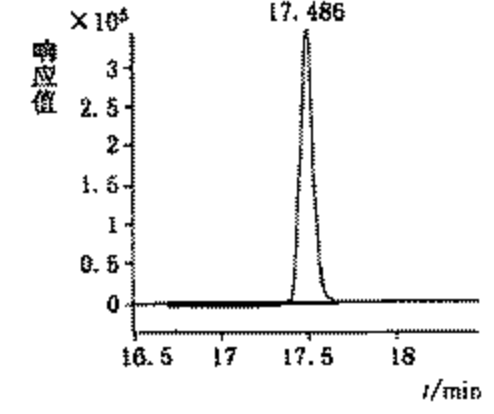
413. 异丙草胺
(propisochlor)



414. 氟硅菊酯
(silafiuofen)

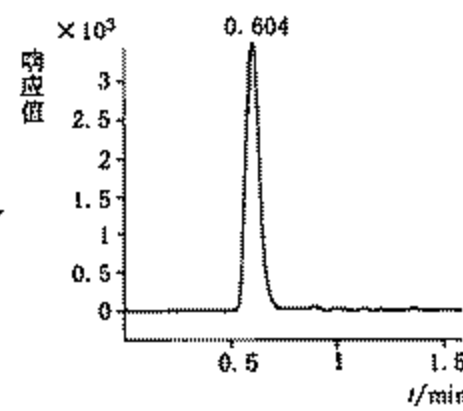


415. 乙氧苯草胺
(etobenzanid)

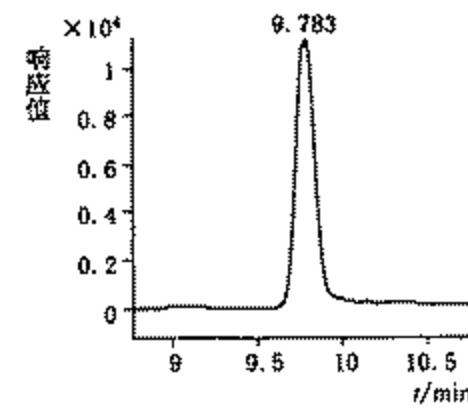


416. 四唑酰草胺
(fentrazamide)

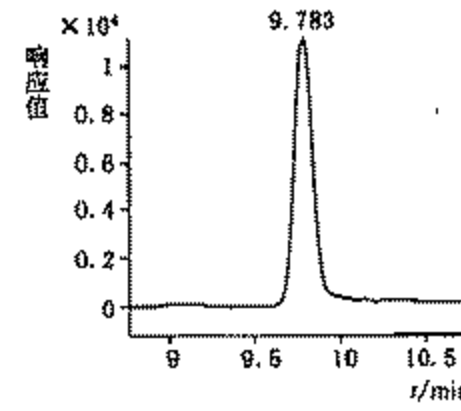
G 组



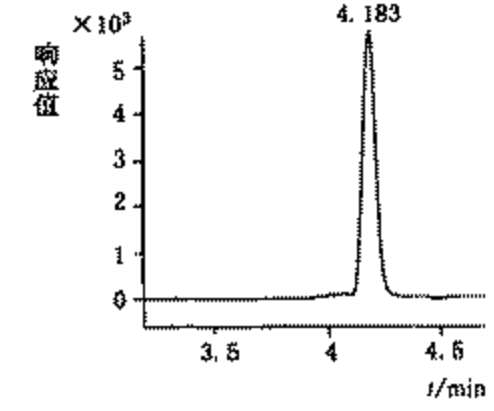
417. 茅草枯
(dalapon)



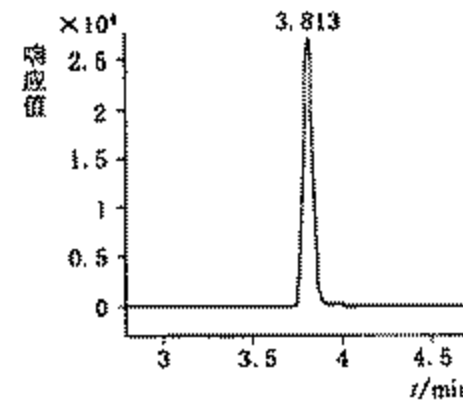
418. 2-苯基苯酚
(2-phenylphenol)



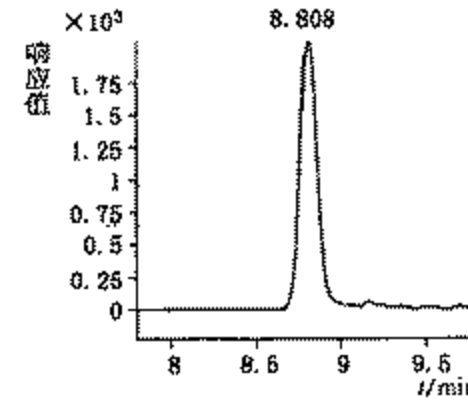
419. 3-苯基苯酚
(3-phenylphenol)



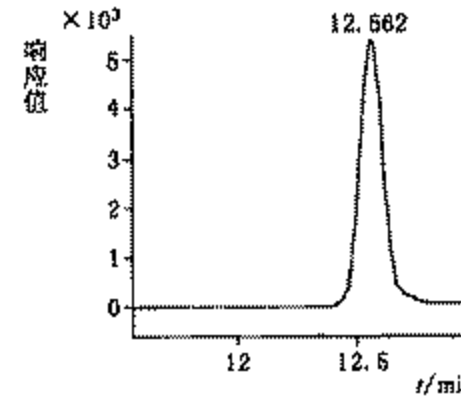
420. 4,6-二硝基邻甲酚
(DNOC)



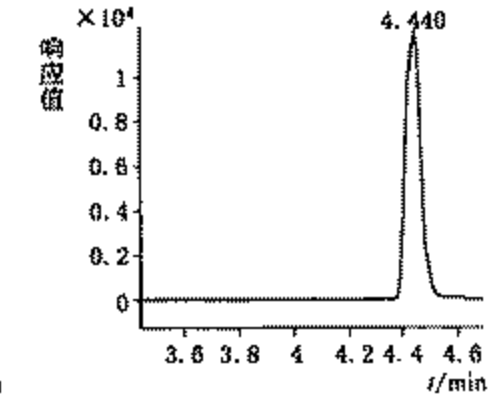
421. 调果酸
(cloprop)



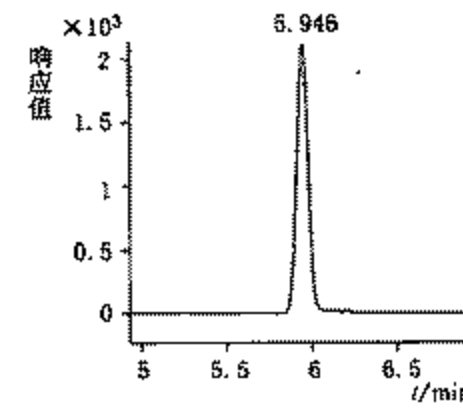
422. 氯硝胺
(dicloran)



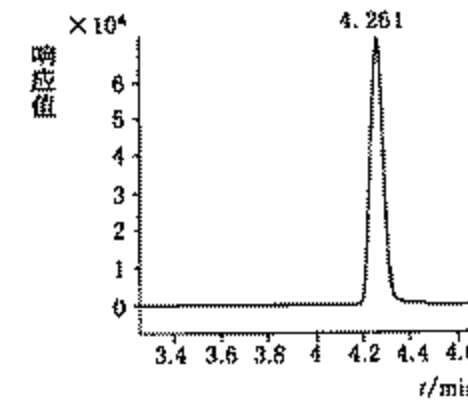
423. 氯苯胺灵
(chlorpropham)



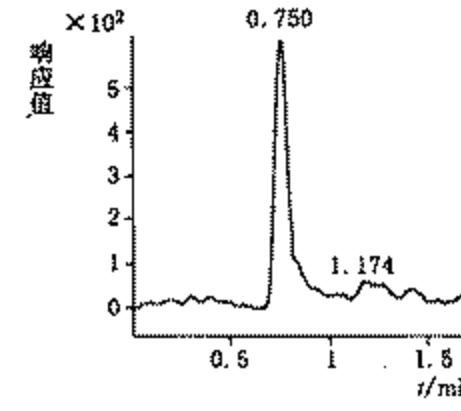
424. 2-甲-4-氯丙酸
(mecoprop)



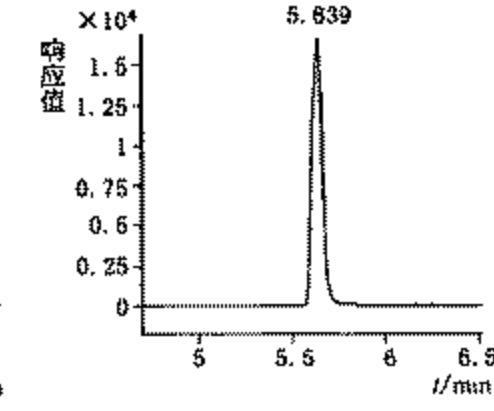
425. 特草定
(terbacil)



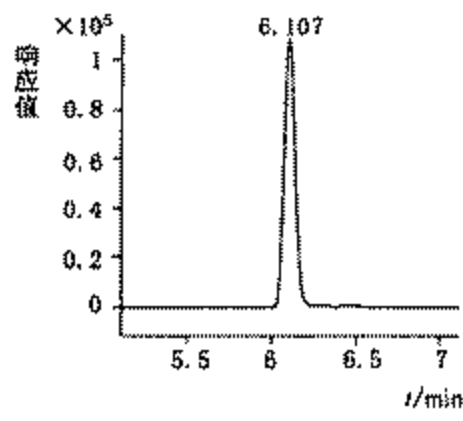
426. 2,4-滴
(2,4-D)



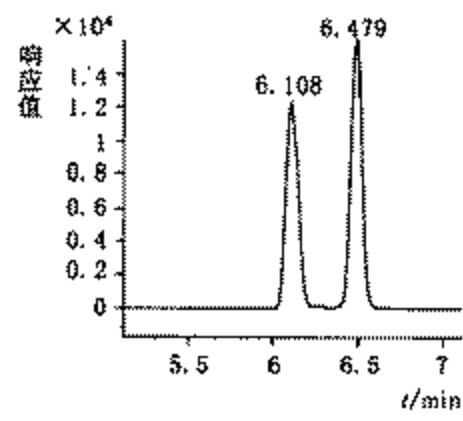
427. 麦草畏
(dicamba)



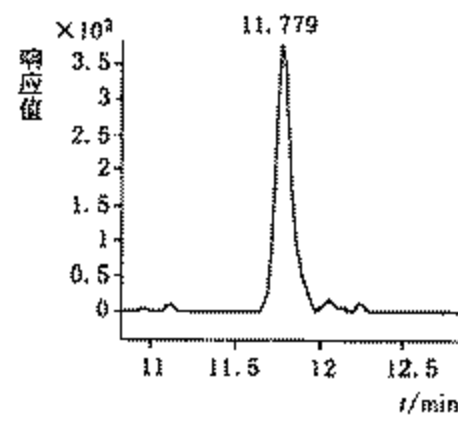
428. 二甲四氯丁酸
(MCPB)



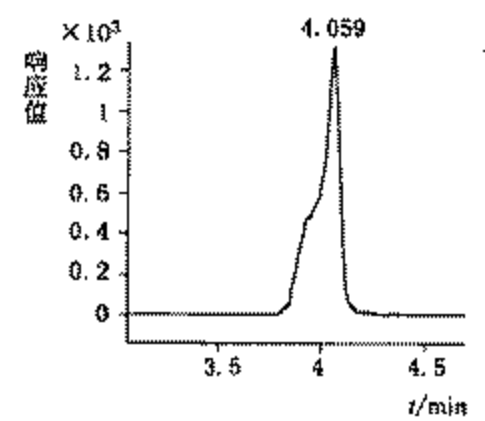
429. 地乐酚
(dinoseb)



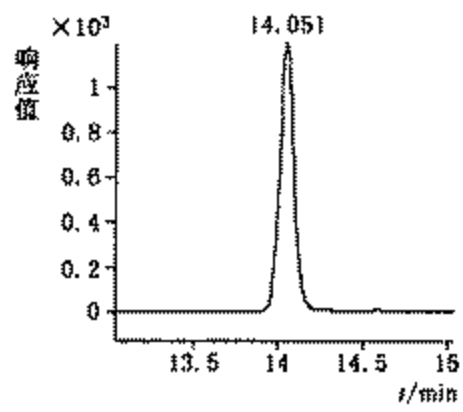
430. 草消酚
(dinoterb)



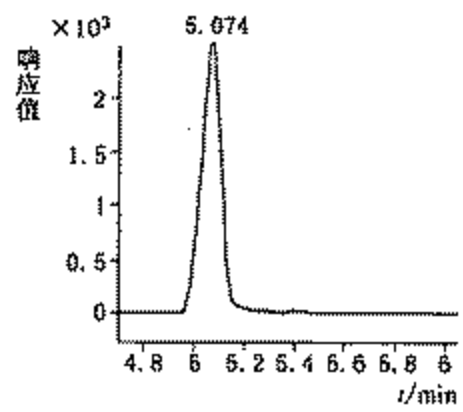
431. 杀螨醇
(chlorfenethol)



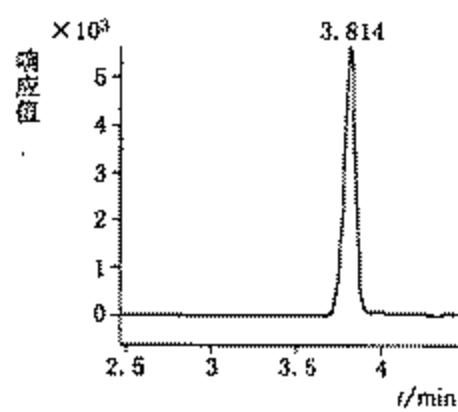
432. 溴苯腈
(bromoxynil)



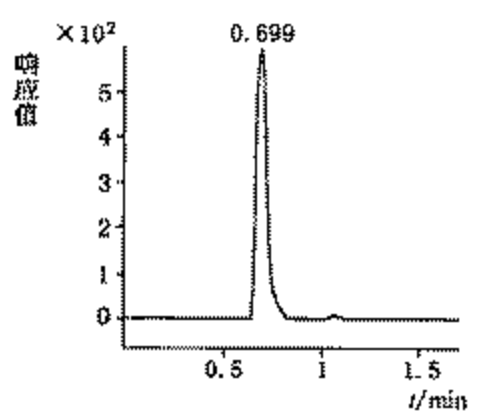
433. 灭幼脲
(chlorobenzuron)



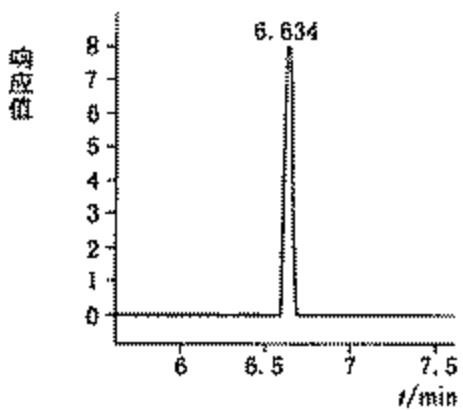
434. 氯霉素
(chloramphenicol)



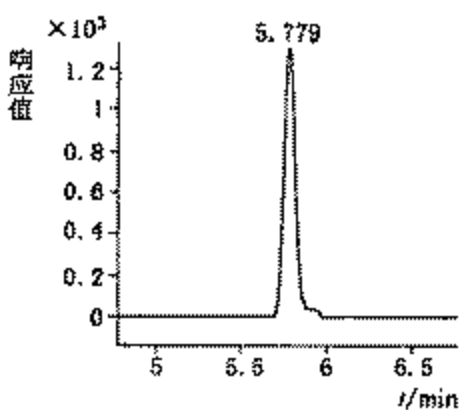
435. 禾草灭
(aloxym-sodium)



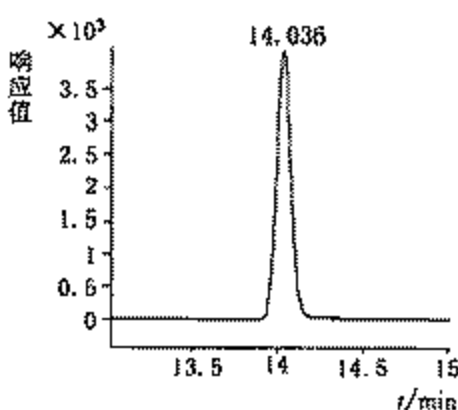
436. 杀虫双
(dimehypo)



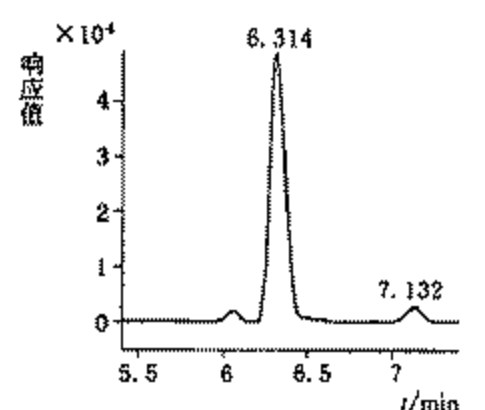
437. 氟吡草胺钠
(diflufenopyr-sodium)



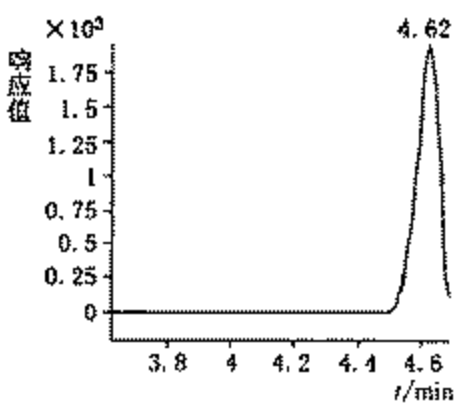
438. 乙酰磺胺对硝基苯
(sulfanitran)



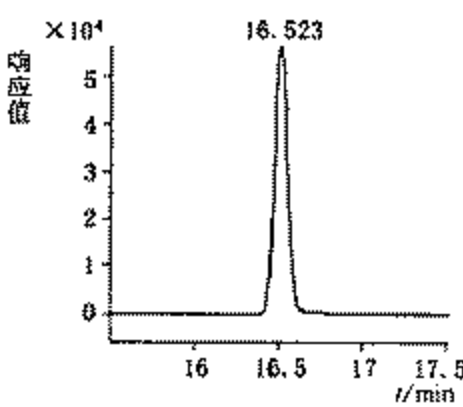
439. 安磺灵
(oryzalin)



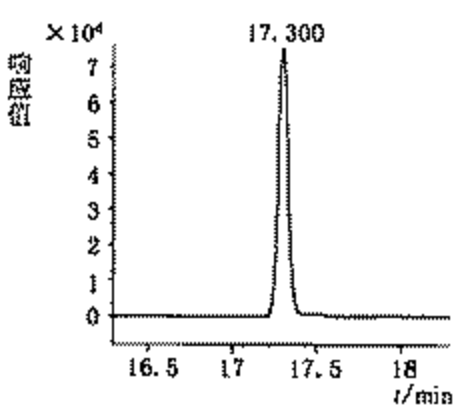
440. 三氟羧草醚
(acifluorfen)



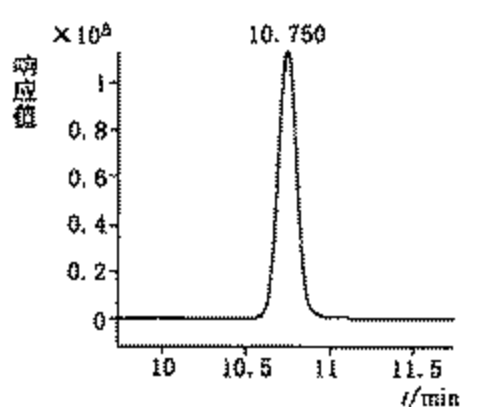
441. 碘苯腈
(ioxynil)



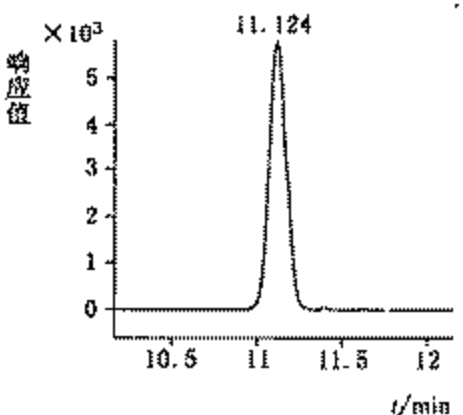
442. 噁唑菌酮
(famoxadone)



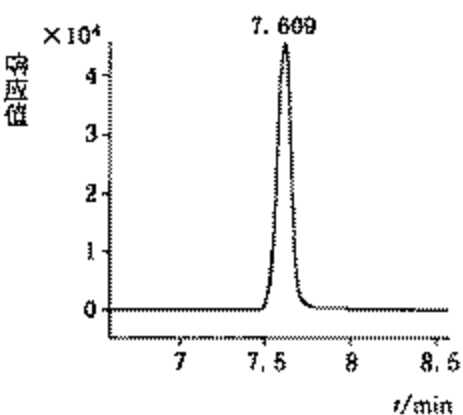
443. 吡氟酰草胺
(diflufenican)



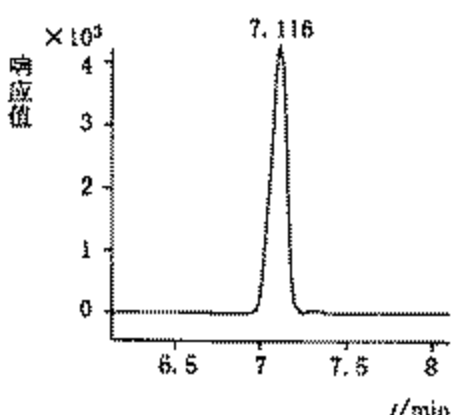
444. 氟吡唑
(ethiprole)



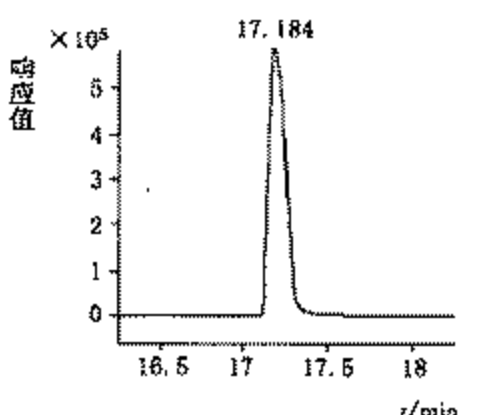
445. 磺菌胺
(flusulfamide)



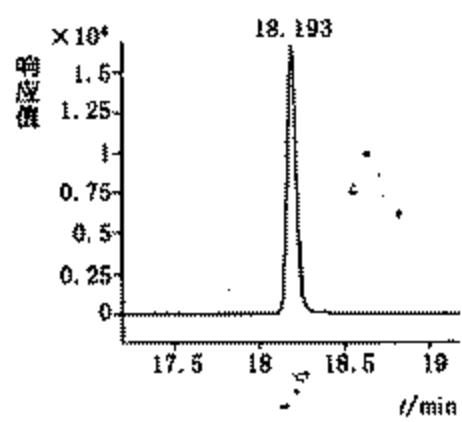
446. 环丙磺隆
(cyclosulfuron)



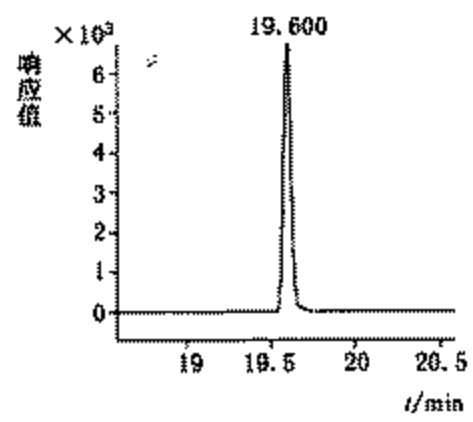
447. 氟磺胺草醚
(fomesafen)



448. 氟吡啶胺
(fluazinam)



449. 吡虫隆
(fluazuron)



450. 氟丙菊酯
(acrinathrin)

附 录 D

(资料性附录)

450 种农药及相关化学品精密度数据表

450 种农药及相关化学品精密度数据表见表 D.1。

表 D.1 450 种农药及相关化学品精密度数据表

序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
A 组							
1	苯胺灵	22.000 0	2.841 5	5.665 2	88.000 0	16.600 3	29.506 7
2	异丙威	0.460 0	0.047 3	0.106 3	1.840 0	0.314 5	0.637 1
3	3,4,5-混杀威	0.068 8	0.008 1	0.010 6	0.275 2	0.050 2	0.116 9
4	环莠隆	0.041 2	0.002 3	0.006 7	0.164 8	0.015 1	0.038 5
5	甲萘威	2.064 0	0.090 0	0.660 0	8.256 0	1.050 0	2.440 0
6	毒草胺	0.054 8	0.007 5	0.016 0	0.219 2	0.038 7	0.078 8
7	吡咪唑	0.266 4	0.045 8	0.056 6	1.065 6	0.154 9	0.255 7
8	西草净	0.027 2	0.000 8	0.002 4	0.108 6	0.021 8	0.043 8
9	绿谷隆	0.712 0	0.097 5	0.209 8	2.848 0	0.456 3	1.115 7
10	速灭磷	0.313 2	0.026 7	0.077 5	1.252 8	0.168 6	0.502 3
11	叠氮津	0.276 4	0.024 4	0.071 2	1.105 6	0.202 4	0.445 2
12	密草通	0.014 5	0.002 9	0.002 7	0.057 9	0.010 0	0.014 0
13	啞菌磺胺	0.147 9	0.003 6	0.007 4	0.591 6	0.010 9	0.037 4
14	播土隆	1.792 0	0.050 0	0.080 0	7.168 0	0.110 0	0.220 0
15	双酰草胺	0.728 0	0.120 0	0.340 0	2.912 0	0.900 0	2.480 0
16	抗蚜威	0.030 3	0.002 9	0.003 8	0.121 1	0.018 4	0.042 2
17	异噁草松	0.084 4	0.050 0	0.140 0	0.337 6	0.210 0	0.645 0
18	氟草津	0.032 8	0.060 0	0.110 0	0.131 0	0.150 0	0.730 0
19	扑草净	0.032 4	0.003 1	0.009 1	0.129 7	0.018 3	0.048 7
20	甲基对氧磷	0.152 4	0.015 0	0.022 6	0.609 6	0.058 8	0.123 7
21	4,4'-二氯二苯甲酮	2.720 0	0.210 6	0.805 7	10.880 0	1.028 6	6.381 0
22	噻虫啉	0.074 0	0.008 5	0.032 7	0.296 0	0.039 8	0.117 0
23	吡虫啉	4.400 0	0.471 8	1.683 1	17.600 0	2.742 3	7.719 1
24	磺噻隆	0.300 0	0.037 4	0.092 7	1.200 0	0.115 1	0.393 4
25	丁噻草酮	0.213 2	0.017 8	0.066 7	0.852 8	0.091 9	0.158 7
26	燕麦敌	17.840 0	0.340 0	0.960 0	71.360 0	3.000 0	6.290 0
27	乙草胺	9.480 0	1.317 3	4.039 3	37.920 0	2.536 1	17.734 6
28	烯啶虫胺	3.424 0	0.378 7	0.592 5	13.696 0	1.032 0	1.755 4
29	盖草津	0.048 4	0.007 1	0.016 8	0.193 6	0.020 4	0.032 5

表 D.1 (续)

序号	名称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
30	二甲酚草胺	0.860 2	0.050 0	0.090 0	3.440 6	0.200 0	0.820 0
31	特草灵	0.420 0	0.051 3	0.149 5	1.680 0	0.088 3	0.562 6
32	戊菌唑	0.400 0	0.041 2	0.064 3	1.600 0	0.156 3	0.400 7
33	腈菌唑	0.199 2	0.031 5	0.058 4	0.796 8	0.109 1	0.273 7
34	咪唑乙烟酸	0.225 2	0.037 9	0.168 7	0.900 8	0.098 4	0.850 3
35	多效唑	0.114 8	0.014 4	0.058 8	0.459 2	0.081 3	0.102 2
36	倍硫磷亚砷	0.062 7	0.009 2	0.038 3	0.250 9	0.032 7	0.092 5
37	三唑醇	2.110 7	0.260 8	0.526 2	8.442 9	0.694 7	2.422 0
38	仲丁灵	0.380 0	0.110 0	0.300 0	1.520 0	0.530 0	0.980 0
39	螺噻茂胺	0.010 3	0.002 2	0.004 1	0.041 3	0.005 2	0.014 0
40	甲基立枯磷	13.312 0	1.212 2	4.477 6	53.248 0	8.012 0	14.825 6
41	甜菜胺	0.805 9	0.020 0	0.020 0	3.223 7	0.050 0	1.200 0
42	杀扑磷	2.132 0	0.162 9	0.532 5	8.528 0	1.479 7	3.745 0
43	烯丙菊酯	12.080 0	1.002 3	4.429 0	48.320 0	9.059 8	17.539 9
44	二嗪磷	0.142 6	0.120 0	0.290 0	0.570 2	0.420 0	8.260 0
45	敌瘟磷	0.150 4	0.012 5	0.014 2	0.601 6	0.064 7	0.119 9
46	丙草胺	0.066 8	0.006 8	0.004 4	0.267 2	0.089 6	0.078 9
47	氟硅唑	0.116 3	0.011 6	0.027 2	0.465 1	0.042 8	0.101 7
48	丙森锌	0.464 0	0.017 8	0.115 3	1.856 0	0.272 3	0.486 0
49	麦锈灵	0.696 0	0.051 6	0.123 6	2.784 0	0.378 7	1.055 1
50	氟酰胺	0.229 2	0.022 3	0.148 9	0.916 8	0.138 1	0.563 8
51	氨磺磷	0.720 0	0.072 2	0.260 0	2.880 0	0.431 7	0.477 2
52	苯霜灵	0.248 5	0.041 7	0.065 4	0.994 1	0.182 0	0.239 3
53	苯氟三唑醇	0.093 6	0.010 0	0.030 0	0.374 4	0.070 0	0.070 0
54	乙环唑	0.356 4	0.019 7	0.081 5	1.425 6	0.176 2	0.477 7
55	氟苯嘧啶醇	0.121 6	0.015 1	0.029 6	0.486 2	0.061 1	0.120 0
56	胺菊酯	0.364 0	0.039 5	0.128 6	1.456 0	0.150 0	0.482 9
57	抑菌灵	0.520 0	2.090 0	3.620 0	2.079 9	5.160 0	0.190 0
58	解草酯	0.376 8	0.010 0	0.030 0	1.507 2	0.030 0	0.100 0
59	联苯三唑醇	6.680 0	0.645 9	1.907 1	26.720 0	1.616 3	3.745 7
60	甲基毒死蜱	3.200 0	0.070 0	0.180 0	12.800 0	0.440 0	0.940 0
61	吡喃草酮	2.440 0	0.453 8	1.285 7	9.760 0	1.034 8	1.480 6
62	甲基硫菌灵	4.000 0	0.542 3	1.102 2	16.000 0	4.098 4	7.250 3
63	益棉磷	21.785 6	2.147 1	9.444 5	87.142 4	11.376 2	8.956 0
64	炔草酸	0.488 0	4.160 0	9.840 0	1.952 0	10.010 0	18.030 0

表 D.1 (续)

序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
65	杀铃脲	0.784 0	0.072 5	0.256 3	3.136 0	0.468 3	1.398 8
66	异噁氟草	0.780 0	0.104 6	0.359 7	3.120 0	0.564 0	1.955 5
67	莎稗磷	0.142 8	0.028 7	0.036 3	0.571 2	0.123 5	0.320 3
68	硫菌灵	4.032 0	1.285 2	1.240 0	16.128 0	1.486 8	3.141 7
69	噻禾灵	0.136 4	0.018 6	0.087 2	0.545 6	0.055 7	0.160 8
70	精氟吡甲禾灵	0.528 0	0.029 6	0.222 3	2.112 0	0.622 5	0.786 1
71	精吡磺草隆	0.052 6	0.006 8	0.018 9	0.210 5	0.033 8	0.064 6
72	乙基溴硫磷	113.538 2	10.317 3	42.491 1	454.153 0	74.952 5	222.066 8
73	地散磷	6.840 0	1.041 0	4.076 8	27.360 0	5.611 0	14.869 6
74	醚苯磺隆	0.321 8	0.093 3	0.113 4	1.287 1	0.240 9	0.582 7
75	溴苯烯磷	0.604 0	0.061 7	0.107 5	2.416 0	0.271 5	0.719 8
76	啞菌酯	0.090 2	0.006 9	0.029 7	0.360 8	0.083 3	0.133 8
77	吡菌磷	0.324 8	0.026 4	0.041 3	1.299 2	0.287 5	0.535 4
78	氟虫脲	0.633 6	0.047 2	0.237 4	2.534 4	0.451 2	1.029 1
79	茚虫威	1.508 0	0.223 6	1.176 6	6.032 0	1.394 1	2.468 4
B 组							
80	丁酰肼	0.520 0	0.031 4	0.231 4	2.080 0	0.557 2	1.060 6
81	烟碱	0.440 0	0.107 5	0.193 7	1.760 0	0.335 7	0.478 7
82	非草隆	0.206 0	0.020 5	0.049 8	0.824 0	0.099 8	0.230 8
83	灭蝇胺	1.448 0	0.661 8	0.771 0	5.792 0	0.502 5	1.476 3
84	鼠立克	0.311 6	0.029 7	0.074 9	1.246 4	0.126 6	0.353 7
85	乙酰甲胺磷	2.668 0	1.537 4	1.240 9	10.672 0	0.754 6	1.609 2
86	禾草敌	0.420 0	0.056 7	0.160 8	1.680 0	0.097 1	0.484 1
87	多菌灵	0.093 6	0.049 7	0.056 1	0.374 4	0.016 8	0.039 7
88	6-氯-4-羟基-3-苯基吡嗪	0.330 8	0.039 8	0.124 2	1.323 2	0.143 0	0.155 1
89	残杀威	4.880 0	0.816 9	1.277 3	19.520 0	1.673 2	1.676 2
90	异唑隆	0.081 6	0.012 7	0.014 4	0.326 4	0.022 8	0.033 7
91	绿麦隆	0.124 8	0.029 9	0.023 1	0.499 2	0.026 1	0.048 0
92	久效威	31.400 0	10.214 2	13.253 9	125.600 0	8.707 1	11.757 5
93	氟草灵	36.600 0	5.931 2	15.262 4	146.400 0	14.716 7	19.900 2
94	噁虫威	0.636 0	0.219 3	0.284 0	2.544 0	0.202 8	0.484 2
95	扑灭津	0.064 0	0.018 3	0.025 3	0.256 0	0.073 6	0.116 6
96	特丁津	0.093 6	0.048 7	0.067 0	0.374 4	0.346 0	0.290 9
97	敌草隆	0.312 0	0.038 7	0.054 8	1.248 0	0.174 7	0.142 5
98	氟甲硫磷	89.600 0	9.220 0	45.640 0	358.400 0	39.480 0	143.010 0

表 D.1 (续)

序号	名称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
99	萎锈灵	0.111 2	0.063 5	0.074 1	0.444 8	0.071 5	0.123 4
100	噻虫胺	12.600 0	1.397 2	2.554 9	50.400 0	7.141 4	10.140 3
101	拿草特	3.076 0	0.346 9	0.709 7	12.304 0	1.705 5	3.439 0
102	二甲草胺	0.380 4	0.083 2	0.093 5	1.521 6	0.049 0	0.183 3
103	溴谷隆	3.368 0	0.435 9	0.490 7	13.472 0	1.189 6	1.782 1
104	甲拌磷	62.800 0	16.040 8	19.510 0	251.200 0	10.411 4	26.895 5
105	苯草醚	4.840 0	0.634 8	1.061 9	19.360 0	1.774 1	7.367 3
106	地安磷	0.464 0	0.050 8	0.075 2	1.856 0	0.067 1	0.069 0
107	脱苯甲基亚胺唑	1.244 0	0.135 0	0.350 5	4.976 0	0.564 0	0.239 9
108	草不隆	1.420 0	0.136 8	0.261 4	5.680 0	1.398 1	1.467 1
109	精甲霜灵	0.307 6	0.059 1	0.088 6	1.230 4	0.172 1	0.179 8
110	乙氧呋草黄	74.400 0	4.060 2	15.983 0	297.600 0	12.049 4	12.833 3
111	异稻瘟净	1.656 0	0.217 7	0.398 4	6.624 0	1.356 3	1.810 5
112	特普	2.080 0	1.312 9	1.177 9	8.320 0	1.046 8	1.173 4
113	环丙唑醇	0.146 4	0.026 1	0.045 1	0.585 6	0.060 8	0.199 2
114	噻虫嗪	6.600 0	1.646 1	2.391 7	26.400 0	2.890 5	3.890 8
115	乙啶硫磷	3.752 0	0.467 3	1.478 9	15.008 0	1.962 9	6.945 0
116	杀鼠醚	0.270 4	0.114 6	0.167 0	1.081 6	0.244 5	0.486 6
117	赛灭磷	16.000 0	4.037 5	3.799 5	64.000 0	5.061 5	6.908 3
118	磷胺	0.776 0	0.061 1	0.089 6	3.104 0	0.240 0	0.317 4
119	甜菜宁	0.896 0	0.072 8	0.134 8	3.584 0	0.398 2	0.742 8
120	联苯井酯	4.560 0	0.591 1	1.540 8	18.240 0	1.664 4	7.701 3
121	粉唑醇	1.716 0	1.067 6	1.051 3	6.864 0	0.754 5	0.573 5
122	抑菌丙胺酯	0.154 0	0.015 5	0.060 8	0.616 0	0.083 7	0.286 5
123	生物丙烯菊酯	39.600 0	5.301 3	6.457 5	158.400 0	7.670 6	17.145 0
124	苯腈磷	4.160 0	0.641 3	0.557 1	16.640 0	2.093 1	2.100 5
125	甲基嘧啶磷	0.040 4	0.008 6	0.012 9	0.161 6	0.010 5	0.015 2
126	噻嗪酮	0.175 6	0.015 7	0.048 6	0.702 4	0.078 6	0.227 8
127	乙拌磷砒	0.492 0	0.212 9	0.281 0	1.968 0	0.298 4	0.294 7
128	啶螨醚	0.064 8	0.013 0	0.011 9	0.259 2	0.015 9	0.042 1
129	三唑磷	0.136 0	0.020 0	0.053 3	0.544 0	0.118 0	0.134 2
130	脱叶磷	0.322 8	0.038 7	0.062 7	1.291 2	0.155 6	0.204 5
131	环酯草醚	0.124 8	0.020 3	0.038 5	0.499 2	0.068 9	0.108 0
132	叶菌唑	0.263 6	0.034 4	0.310 4	1.054 4	0.135 6	0.162 6
133	蚊蝇醚	0.086 0	0.008 8	0.009 9	0.344 0	0.024 1	0.037 6

表 D.1 (续)

序号	名 称	含量/($\mu\text{g}/\text{L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g}/\text{L}$)	重复性限 r	再现性限 R
134	噻草酮	0.508 0	0.135 2	0.182 1	2.032 0	0.309 2	0.359 1
135	异噁酰草胺	0.037 2	0.018 4	0.029 0	0.148 8	0.020 6	0.029 3
136	吡草酮	0.088 8	0.065 4	0.044 4	0.355 2	0.040 0	0.050 0
137	氟乐灵	66.96	32.4	37.66	267.84	26.51	112.300 0
138	甲基麦草氟异丙酯	4.040 0	1.226 5	1.415 1	16.160 0	12.056 5	11.433 3
139	生物吡啶菊酯	1.484 0	0.429 4	0.660 4	5.936 0	17.715 3	8.920 6
140	丙环唑	0.351 6	0.083 2	0.107 8	1.406 4	0.327 4	0.475 7
141	毒死蜱	10.760 0	2.205 1	2.573 7	43.040 0	4.432 4	6.565 1
142	氯乙氟灵	97.600 0	19.273 6	27.987 5	390.400 0	44.365 4	125.472 3
143	氯磺隆	0.548 0	0.128 4	0.171 3	2.192 0	0.312 3	0.304 6
144	烯草酮	0.416 0	0.201 7	0.226 2	1.664 0	0.151 1	0.397 2
145	麦草氟异丙酯	0.086 8	0.065 9	0.064 8	0.347 2	0.062 2	0.102 1
146	杀虫畏	0.444 0	0.073 9	0.190 5	1.776 0	0.326 0	0.320 3
147	炔螨特	13.720 0	3.727 1	4.046 9	54.880 0	3.043 6	12.178 1
148	糠菌唑	0.628 0	0.060 0	0.091 3	2.512 0	0.137 2	0.216 5
149	氟吡啶草胺	0.145 2	0.035 8	0.072 5	0.580 8	0.051 3	0.085 1
150	氟噻乙草酯	1.060 0	0.594 5	0.690 2	4.240 0	0.441 4	5.139 3
151	肟菌酯	0.400 0	0.292 7	0.300 3	1.600 0	0.106 5	0.256 6
152	氟铃脲	5.040 0	3.386 7	2.932 1	20.160 0	3.595 6	2.968 3
153	氟醚脲	1.608 0	0.366 5	0.961 5	6.432 0	0.648 7	0.640 0
154	啶吡脲	5.360 0	3.301 1	3.415 9	21.440 0	1.856 0	1.894 1
C 组							
155	甲胺磷	0.986 0	0.166 6	0.426 4	3.944 0	0.650 6	1.094 9
156	茵草敌	7.467 6	1.309 7	2.240 8	29.870 4	6.413 3	13.870 7
157	避蚊胺	0.110 0	0.008 3	0.043 7	0.440 0	0.062 6	0.209 0
158	灭草隆	6.947 2	0.373 4	0.724 2	27.788 8	1.429 9	6.411 9
159	啞霉胺	0.136 0	0.005 5	0.009 0	0.544 0	0.058 0	0.250 9
160	黑穗胺	0.156 0	0.038 5	0.071 7	0.624 0	0.148 9	0.350 9
161	灭藻醌	1.584 0	0.135 5	0.287 8	6.336 0	0.563 3	2.514 4
162	仲丁威	1.180 0	0.014 0	0.034 6	4.720 0	0.023 2	0.207 3
163	乙菌定	0.112 0	0.013 9	0.096 0	0.448 0	0.032 2	0.183 4
164	敌稗	4.318 0	0.811 3	1.857 8	17.272 0	1.892 0	8.427 3
165	克百威	2.612 0	0.160 1	0.486 0	10.448 0	0.205 1	0.270 7
166	啶虫清	0.288 0	0.066 0	0.051 2	1.152 0	0.205 1	0.270 7
167	啞霉胺	0.064 0	0.067 4	0.029 4	0.256 0	0.596 4	0.873 1

表 D.1 (续)

序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
168	扑灭通	0.026 2	0.004 7	0.005 6	0.104 8	0.005 9	0.030 2
169	甲硫威	8.240 0	0.594 7	4.738 2	32.960 0	3.882 4	11.834 4
170	甲氧隆	0.127 4	0.025 2	0.028 9	0.509 8	0.038 6	0.160 4
171	乐果	1.520 0	0.183 6	1.290 9	6.080 0	0.146 6	1.564 8
172	呋菌胺	0.054 1	0.012 6	0.024 5	0.216 3	0.033 2	0.077 1
173	伏草隆	0.184 0	0.020 7	0.038 1	0.736 0	0.065 2	0.173 5
174	百治磷	0.228 8	0.031 5	0.043 2	0.915 2	0.152 2	0.364 7
175	庚酰草胺	0.240 0	0.018 7	0.038 9	0.960 0	0.074 7	0.169 0
176	双苯酰草胺	0.028 3	0.005 8	0.016 7	0.113 1	0.021 1	0.057 2
177	灭线磷	0.553 0	0.061 1	0.334 2	2.211 8	0.348 1	0.433 8
178	地虫硫磷	1.491 6	0.025 9	2.356 4	5.966 4	0.104 9	3.008 1
179	土菌灵	20.084 2	1.340 9	33.494 3	80.336 8	5.896 1	24.695 1
180	拌种胺	0.166 4	0.030 4	0.046 6	0.665 6	0.343 0	0.146 8
181	环嗪酮	0.023 8	0.001 1	0.007 2	0.095 2	0.008 3	0.021 7
182	阔草净	0.022 0	0.005 0	0.031 2	0.088 0	0.018 6	0.050 2
183	敌百虫	0.224 5	0.039 1	0.053 3	0.897 9	0.100 5	0.192 7
184	内吸磷	1.354 1	1.016 0	1.779 9	5.416 3	1.181 1	2.337 7
185	解草酮	1.380 0	244.017 3	251.188 2	5.520 0	0.330 2	10.109 3
186	除草定	4.720 0	0.436 6	1.277 1	18.880 0	0.818 6	4.507 2
187	甲拌磷亚砷	73.656 0	2 232.67	8 722.76	294.624 0	45.187 8	129.807 3
188	溴莠敏	0.720 0	0.104 2	0.128 5	2.880 0	0.477 6	0.760 7
189	氧化萎锈灵	0.179 2	0.037 9	0.045 4	0.716 8	0.060 7	0.170 9
190	灭锈胺	0.075 6	0.012 5	0.011 7	0.302 4	0.030 4	0.147 2
191	乙拌磷	93.939 2	6.286 1	41.218 0	375.756 8	53.146 8	114.664 9
192	倍硫磷	10.400 0	0.254 2	5.887 4	41.600 0	0.697 4	10.519 5
193	甲霜灵	0.100 0	0.009 2	0.039 5	0.400 0	0.087 7	0.191 7
194	甲呋酰胺	0.200 0	0.032 9	0.034 2	0.800 0	0.143 0	0.327 6
195	吗菌灵	0.080 0	0.017 9	0.142 4	0.320 0	0.204 1	0.338 5
196	甲基咪草酯	0.032 8	0.004 4	0.009 7	0.131 0	0.011 0	0.027 1
197	乙拌磷亚砷	0.568 8	0.113 7	0.233 1	2.275 2	0.213 1	0.953 8
198	稻瘟灵	0.369 6	0.012 7	0.074 4	1.478 4	0.237 7	0.303 3
199	抑霉唑	0.400 0	0.050 7	0.059 9	1.600 0	0.081 5	0.343 7
200	辛硫磷	16.560 0	1.156 3	4.374 4	66.240 0	2.516 6	14.059 9
201	啶硫磷	0.399 6	0.018 3	0.130 5	1.598 4	0.126 1	0.235 6
202	灭菌磷	76.360 0	1.212 0	10.451 7	305.440 0	2.934 4	9.605 9

表 D.1 (续)

序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
203	苯氧威	3.654 0	1.078 4	1.611 7	14.616 0	6.718 3	11.768 1
204	嘧啶磷	0.034 8	0.003 2	0.038 5	0.139 2	0.014 4	0.036 0
205	丰索磷	0.400 3	0.126 7	0.333 7	1.601 0	0.282 9	1.383 9
206	氟咯草酮	2.756 0	0.145 0	0.526 6	11.024 0	1.201 1	1.329 3
207	丁草胺	4.013 2	0.334 7	0.619 0	16.052 8	2.051 7	3.922 3
208	咪唑啉啉酸	0.577 6	0.039 7	0.989 1	2.310 4	0.644 2	3.422 2
209	亚胺菌	20.116 0	1.209 7	5.046 2	80.464 0	7.106 6	8.673 7
210	戊叉菌唑	0.604 0	158.185 8	270.013 1	2.416 0	0.204 7	4.467 3
211	苯线磷亚砷	0.147 8	0.018 3	0.013 3	0.591 4	0.062 2	0.117 7
212	噻吩草胺	4.828 0	0.216 5	0.923 1	19.312 0	0.736 8	3.310 1
213	氟菌胺	7.880 0	0.077 7	0.281 2	31.520 0	0.157 8	0.540 8
214	氟啶草酮	0.036 0	0.003 8	0.067 8	0.144 0	0.023 9	0.040 8
215	氟环唑	0.811 2	0.025 2	0.107 8	3.244 8	0.077 6	0.436 9
216	氟辛硫磷	15.514 8	1.258 0	2.833 4	62.059 2	5.032 1	11.333 8
217	苯线磷砷	0.089 0	0.015 4	0.013 0	0.356 2	0.019 8	0.052 5
218	腈苯唑	0.329 8	0.016 8	0.049 6	1.319 2	0.070 2	0.338 0
219	异柳磷	43.734 4	7.116 5	15.054 7	174.937 6	21.002 5	109.592 8
220	苯醚菊酯	67.840 0	12.329 4	26.320 6	271.360 0	32.909 4	119.882 9
221	氯化亚砷锡	3.450 0	1.242 1	2.333 2	13.800 0	3.184 6	13.356 2
222	呱草磷	1.848 0	0.145 6	2.634 7	7.392 0	0.476 7	0.771 1
223	增效醚	0.226 3	0.030 3	0.069 0	0.905 3	0.162 2	0.166 8
224	乙氧氟草醚	11.709 6	0.214 7	2.777 5	46.838 4	4.868 0	19.520 6
225	蝇毒磷	0.420 0	0.035 6	0.220 0	1.680 0	0.281 2	0.733 5
226	氟噻草胺	1.060 0	0.293 5	0.262 3	4.240 0	0.292 8	0.940 2
227	伏杀硫磷	9.608 2	0.529 9	8.151 8	38.432 6	1.619 5	3.224 6
228	甲氧虫酰肼	0.740 0	0.016 7	0.095 1	2.960 0	0.168 2	0.445 1
229	咪鲜胺	0.414 0	0.069 5	0.257 8	1.655 8	0.149 6	0.428 6
230	丙硫特普	0.346 0	0.044 2	0.430 2	1.384 0	0.277 2	0.555 7
231	乙硫磷	0.591 2	0.051 0	0.664 8	2.365 0	0.201 3	0.487 8
232	丁醚脲	0.056 0	0.005 1	0.046 8	0.224 0	0.037 5	0.104 1
233	噻吩磺隆	4.280 0	0.468 3	1.358 1	17.120 0	1.757 7	7.477 9
234	乙氧嘧磺隆	0.916 4	0.367 5	0.754 4	3.665 6	1.365 7	6.164 2
235	氟硫草定	2.080 0	0.476 3	0.449 7	8.320 0	0.742 7	6.846 7
236	螺螨酯	1.981 2	0.379 7	1.240 5	7.924 8	1.522 8	3.222 1
237	唑螨酯	0.272 0	0.486 6	0.776 9	1.088 0	1.678 7	1.122 0

表 D.1 (续)

序号	名称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
238	胺氟草酯	2.121 6	0.219 7	1.193 7	8.486 4	2.162 6	2.720 4
239	双硫磷	0.243 0	0.022 1	0.358 1	0.972 0	0.107 2	0.442 7
240	氟丙啉草酯	1.900 0	0.393 8	0.499 0	7.600 0	0.574 8	1.522 4
241	多杀菌素	0.113 7	0.012 9	0.009 7	0.454 7	0.021 9	0.102 0
D组							
242	甲呱金翁	0.180 0	0.020 9	0.064 4	0.720 0	0.049 1	0.061 6
243	二丙烯草胺	8.208 0	1.641 7	2.485 9	32.832 0	4.067 8	7.862 6
244	霜霉威	0.017 5	4.660 0	9.750 0	0.070 1	5.330 0	7.860 0
245	噻菌灵	0.097 6	0.005 4	0.011 2	0.390 4	0.004 4	0.055 6
246	苯噻草酮	1.272 0	0.069 0	0.175 3	5.088 0	0.179 5	0.852 9
247	异丙隆	0.027 1	0.003 4	0.011 0	0.108 5	0.008 7	0.028 8
248	莠去通	0.036 6	0.000 3	0.009 2	0.146 6	0.005 5	0.032 2
249	赛克津	0.108 0	0.016 6	0.039 7	0.432 0	0.011 4	0.064 7
250	DMST	8.000 0	0.918 1	0.663 7	32.000 0	0.958 3	1.281 3
251	环草敌	0.888 0	0.204 5	0.278 1	3.552 0	0.257 5	0.310 6
252	阿特拉津	0.072 1	0.001 3	0.015 0	0.288 3	0.009 9	0.043 4
253	丁草敌	60.400 0	9.066 9	35.996 6	241.600 0	24.165 4	45.928 7
254	吡蚜酮	6.856 0	1.354 7	1.050 6	27.424 0	1.693 6	2.760 7
255	氯草敏	0.465 6	0.138 5	0.092 4	1.862 4	0.316 0	3.097 3
256	莠草畏	41.440 0	5.131 5	8.682 7	165.760 0	3.815 1	9.067 4
257	乙硫苯威	0.984 0	0.179 1	0.326 1	3.936 0	0.487 6	1.678 5
258	特丁通	0.019 2	0.005 8	0.021 7	0.076 8	0.009 0	0.047 9
259	阔草净	0.192 0	0.012 9	0.036 2	0.768 0	0.054 6	0.038 5
260	木草隆	0.043 4	0.032 7	0.039 5	0.173 4	0.026 8	0.112 9
261	草达津	0.120 8	0.007 9	0.158 0	0.483 2	0.036 0	0.068 2
262	另丁津	0.062 8	0.012 0	0.105 7	0.251 2	0.211 8	0.199 9
263	畜虫避	44.480 0	11.664 8	17.839 3	177.920 0	9.998 2	15.776 8
264	牧草胺	0.027 2	0.002 9	0.019 1	0.108 8	0.016 5	0.033 2
265	久效威亚砷	1.658 8	0.286 8	0.616 6	6.635 2	0.373 0	1.433 1
266	杀螟丹	416.000 0	65.386 4	109.716 4	1 664.00	230.667 2	325.408 3
267	虫螨畏	484.739 2	107.681 2	83.401 0	1 938.12	248.096 5	252.660 2
268	咪唑啉	1.600 0	0.724 8	2.158 2	6.400 0	1.217 5	15.408 5
269	虫线磷	4.536 0	0.973 8	1.464 8	18.144 0	2.525 7	18.935 1
270	利谷隆	2.326 8	0.625 2	0.724 1	9.307 2	2.044 7	1.984 9
271	庚虫磷	1.168 0	0.197 9	0.268 5	4.672 0	0.395 9	0.462 1

表 D.1 (续)

序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
272	苄草丹	0.073 4	0.007 1	0.024 2	0.293 4	0.047 7	0.039 1
273	杀草净	0.054 0	1.331 8	1.267 2	0.216 0	0.014 4	0.056 6
274	禾草丹	0.660 0	0.082 9	0.131 5	2.640 0	0.269 8	0.157 7
275	三正丁基磷酸盐	0.074 8	0.008 2	0.029 7	0.299 2	0.007 6	0.028 9
276	甲草胺	1.480 0	0.957 7	1.865 7	5.920 0	0.437 8	1.530 4
277	硫线磷	0.230 4	0.045 3	0.083 5	0.921 6	0.157 7	0.265 1
278	吡啶草胺	0.196 0	0.115 4	0.149 9	0.784 0	0.042 7	0.210 6
279	胺丙畏	10.800 0	0.380 0	0.830 0	43.200 0	0.420 0	0.840 0
280	特丁硫磷	448.000 9	69.356 7	171.046 0	1 792.00	322.306 3	329.054 3
281	硅氟唑	0.588 0	0.029 0	0.052 0	2.352 0	0.060 1	0.310 7
282	三唑酮	1.576 0	0.210 0	0.474 0	6.304 0	0.401 5	1.255 0
283	甲拌磷砒	8.400 0	1.474 3	1.711 8	33.600 0	4.704 1	16.116 3
284	十三吗啉	0.520 8	0.058 9	0.274 2	2.083 2	0.242 2	1.014 7
285	苯噻酰草胺	0.441 6	0.008 7	0.062 6	1.766 4	0.111 0	0.156 5
286	丁苯吗啉	0.036 8	0.001 2	0.005 1	0.147 2	40.416 4	44.741 7
287	戊唑醇	0.446 4	0.128 2	0.564 0	1.785 6	0.944 5	1.375 1
288	异丙乐灵	6.000 0	3.368 1	3.239 3	24.000 0	2.837 4	12.993 9
289	氟苯嘧啶醇	0.199 2	0.032 7	0.044 8	0.796 8	0.138 1	0.225 6
290	乙嘧酚磺酸酯	0.140 0	0.074 4	0.148 8	0.560 0	0.046 9	0.862 1
291	保棉磷	220.866 8	29.129 6	17.774 5	883.467 2	44.278 2	111.849 7
292	丁基嘧啶磷	0.025 8	0.003 3	0.007 9	0.103 4	0.008 8	0.026 7
293	稻丰散	18.470 4	2.345 3	2.124 9	73.881 6	0.433 4	3.778 1
294	治螟磷	0.520 0	0.002 9	0.285 4	2.080 0	0.181 8	0.781 0
295	硫丙磷	1.168 0	0.110 4	0.117 6	4.672 0	0.128 2	0.826 7
296	苯硫磷	6.600 0	0.780 8	0.721 8	26.400 0	0.652 7	4.028 3
297	甲基吡啶磷	0.161 6	0.000 5	0.022 8	0.646 4	0.046 4	0.082 3
298	烯唑醇	0.268 8	0.089 7	0.075 2	1.075 2	0.133 3	0.331 1
299	唑啶磺草胺	0.059 4	0.046 5	0.076 3	0.237 4	0.042 6	0.045 9
300	纹枯腺	0.054 6	0.007 1	0.058 7	0.218 6	0.032 2	0.147 5
301	灭蚜磷	3.920 0	0.608 2	0.309 0	15.680 0	0.879 9	1.071 7
302	苯草酮	0.064 2	0.002 8	0.018 8	0.256 6	0.134 8	0.138 1
303	马拉硫磷	1.128 8	2.837 7	3.112 2	4.515 4	15.330 9	15.586 1
304	稗草畏	0.067 8	0.004 8	0.024 1	0.271 0	0.050 0	0.215 1
305	吡啶硫磷	0.174 4	0.089 8	0.158 5	0.697 6	800.043 5	1 077.47
306	硫双威	7.873 6	0.439 5	0.910 1	31.494 4	3.020 8	3.859 9

表 D.1 (续)

序号	名称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
307	吡唑硫磷	0.200 8	0.043 6	0.041 2	0.803 2	0.026 0	0.099 2
308	啉氧菌酯	1.688 0	0.290 5	0.025 6	6.752 0	0.160 4	0.777 1
309	四氟醚唑	0.344 0	0.045 7	0.197 6	1.376 0	77.841 3	77.388 3
310	吡唑解草酯	2.512 0	0.807 5	1.655 8	10.048 0	0.089 0	3.659 0
311	丙溴磷	0.403 2	0.219 4	0.295 0	1.612 8	0.552 8	0.621 3
312	百克敏	0.101 0	0.006 5	0.046 0	0.404 1	0.071 7	0.248 5
313	烯酰吗啉	0.070 5	0.020 6	0.082 2	0.281 9	0.142 3	0.166 1
314	噻噁菊酯	0.665 6	0.033 7	0.301 0	2.662 4	0.127 3	1.514 4
315	噻唑烟酸	0.392 0	0.043 2	0.022 7	1.568 0	0.059 9	0.201 7
316	醚黄隆	0.224 8	0.050 3	0.049 2	0.899 2	0.065 1	0.076 9
317	吡啶磺隆	1.368 0	0.248 1	0.300 7	5.472 0	1.177 8	0.791 4
318	磺草胺唑	0.880 0	0.046 9	0.255 0	3.520 0	0.107 2	0.378 2
E 组							
319	4-氨基吡啉	0.173 6	0.036 8	0.015 2	0.694 4	0.151 7	0.286 4
320	矮壮素	0.024 2	0.004 0	0.002 9	0.096 8	0.028 8	0.022 6
321	灭多威	1.912 0	0.160 5	0.249 7	7.648 0	0.503 9	1.786 8
322	咯嗉酮	0.696 0	0.051 1	0.030 2	2.784 0	0.643 9	0.381 0
323	麦穗灵	0.378 0	0.043 2	0.055 0	1.512 0	0.321 9	0.299 6
324	丁脘酰胺	0.339 6	0.011 5	0.047 4	1.358 4	0.164 3	0.272 9
325	丁腈威	0.314 0	0.060 3	0.275 5	1.256 0	0.228 3	0.730 7
326	杀虫脒	0.266 4	0.109 2	0.071 4	1.065 6	0.068 8	0.212 8
327	霜脍氰	11.120 0	1.058 9	1.488 5	44.480 0	3.575 7	10.848 8
328	灭害威	3.284 0	0.340 3	0.337 1	13.136 0	2.549 3	1.691 0
329	甲菌定	0.024 9	0.004 0	0.006 7	0.099 7	0.016 7	0.028 7
330	氧乐果	1.930 0	0.091 5	0.503 0	7.720 0	1.449 8	1.895 4
331	乙氧嘧啶	0.704 0	0.094 4	0.786 0	2.816 0	1.129 5	1.573 0
332	敌敌畏	0.109 6	0.016 9	0.005 4	0.438 4	0.074 4	0.050 5
333	涕灭威砒	4.280 0	0.889 1	1.336 5	17.120 0	3.289 7	5.165 6
334	二氧威	0.672 0	0.100 8	0.134 0	2.688 0	0.522 8	0.870 9
335	苄基腺嘌呤	14.160 0	1.006 7	1.138 9	56.640 0	16.741 0	29.419 4
336	甲基内吸磷	1.060 0	0.021 8	0.198 0	4.240 0	1.561 9	2.895 5
337	乙硫苯威亚砒	44.800 0	3.346 8	3.577 5	179.200 0	9.728 0	17.324 8
338	甲基乙拌磷	115.600 0	3.359 4	67.901 6	462.400 0	122.150 8	192.947 9
339	灭菌丹	27.720 0	7.673 9	6.124 7	110.880 0	9.461 1	33.214 0
340	甲基内吸磷砒	3.952 0	0.444 2	0.654 8	15.808 0	2.392 8	3.681 7

表 D.1 (续)

序号	名称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
341	苯锈定	0.036 6	0.009 4	0.025 4	0.146 4	0.038 6	0.067 9
342	甲咪唑烟酸	1.180 0	0.097 7	0.133 8	4.720 0	2.298 5	2.275 2
343	对氧磷	0.094 8	0.026 8	0.028 1	0.379 2	0.026 8	0.028 1
344	乙烯菌核利	0.508 0	0.123 0	0.589 5	2.032 0	0.480 3	1.122 6
345	烯效唑	0.480 0	0.052 2	0.086 7	1.920 0	0.320 8	0.290 2
346	啶斑肟	0.053 2	0.004 9	0.092 8	0.212 8	0.011 4	0.395 7
347	异氧磷	0.047 6	0.046 6	0.083 6	0.190 4	0.861 0	0.622 0
348	四螨嗪	0.152 8	0.011 2	0.065 5	0.611 2	0.104 2	0.160 4
349	氟草敏	0.051 6	0.014 4	0.011 9	0.206 4	0.071 3	0.080 1
350	野麦畏	9.240 0	0.825 5	2.280 0	36.960 0	5.728 5	10.070 2
351	福美锌	15.680 0	2.750 0	5.010 0	62.720 0	10.510 0	12.530 0
352	苯氧喹啉	30.680 0	0.280 0	3.494 3	122.720 0	19.825 5	29.675 9
353	倍硫磷砒	3.492 0	1.172 3	3.640 5	13.968 0	2.527 0	7.785 6
354	氟咯草酮	0.258 0	0.020 9	0.067 9	1.032 0	0.106 3	0.199 3
355	酞酸苯甲基丁酯	126.400 0	13.829 6	38.786 3	505.600 0	87.672 8	166.648 2
356	氯唑磷	0.035 7	0.009 2	0.004 4	0.142 7	0.022 1	0.014 8
357	除线磷	6.040 0	1.324 1	0.615 9	24.160 0	9.257 3	7.540 0
358	特丁硫磷砒	17.720 0	1.158 6	1.779 9	70.880 0	3.846 3	7.192 9
359	敌乐胺	0.358 4	0.046 5	0.147 5	1.433 6	0.100 1	0.683 0
360	毒壤磷	13.360 0	0.005 0	0.011 4	53.440 0	0.012 7	0.020 1
361	苄呋菊酯	0.060 0	0.083 4	0.206 7	0.240 0	0.692 8	0.433 1
362	啶酰菌胺	0.952 0	0.083 4	0.206 7	3.808 0	0.692 8	0.433 1
363	甲氧菊酯	49.000 0	4.682 9	6.212 0	196.000 0	18.731 6	24.848 2
364	噻螨酮	4.720 0	0.683 5	0.319 8	18.880 0	4.044 6	4.800 1
365	啉螨醚	2.800 0	0.174 8	0.136 0	11.200 0	0.699 4	0.544 1
366	呋线威	0.383 6	0.088 3	0.078 4	1.534 4	0.236 9	0.339 9
367	反式氯菊酯	0.960 0	0.400 0	0.651 8	3.840 0	3.814 0	2.117 8
368	苄草啞	0.065 2	0.006 7	0.017 8	0.260 8	0.017 0	0.050 9
369	啉唑啉	1.556 0	0.579 6	0.864 8	6.224 0	1.982 5	3.904 6
370	Z-氯氟菊酯	0.135 6	0.381 7	0.357 3	0.542 4	0.133 5	0.885 1
371	氟吡乙禾灵	0.500 0	0.083 7	0.070 7	2.000 0	1.119 0	0.654 2
372	氟胺氟菊酯	46.000 0	8.668 4	9.009 4	184.000 0	67.034 9	73.757 0
F 组							
373	叔丁基胺	7.790 0	3.430 0	4.080 0	31.160 0	13.720 0	16.340 0
374	噁霉灵	44.827 2	8.292 4	24.944 0	179.308 8	36.365 6	67.791 3

表 D.1 (续)

序号	名称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
375	矮壮素氯化物	0.140 8	0.050 9	0.334 6	0.563 2	0.358 6	0.544 0
376	邻苯二甲酰亚胺	8.600 0	1.086 6	2.612 4	34.400 0	2.841 7	6.378 4
377	甲氧磷	13.640 0	2.610 0	3.786 4	54.560 0	4.492 0	5.471 2
378	二苯胺	0.082 8	0.005 8	0.015 5	0.331 2	0.137 6	0.142 4
379	1-萘基乙酰胺	0.162 0	0.007 9	0.061 8	0.648 0	0.217 2	0.152 8
380	脱乙基莠去津	0.124 0	0.032 7	0.039 4	0.496 0	0.070 6	0.151 5
381	2,6-二氯苯甲酰胺	0.900 0	0.085 5	0.344 5	3.600 0	0.236 1	0.884 3
382	涕灭威	52.200 0	7.237 8	22.297 9	208.800 0	19.173 9	27.648 3
383	邻苯二甲酸二甲酯	2.640 0	0.526 6	0.805 0	10.560 0	2.106 4	3.220 0
384	西玛通	0.220 8	0.008 7	0.038 9	0.883 2	0.045 9	0.043 6
385	呋草胺	2.036 0	0.356 2	0.656 0	8.144 0	0.969 6	1.023 5
386	克草敌	0.680 0	0.222 1	0.388 8	2.720 0	3.002 8	1.272 5
387	蔬果磷	2.768 0	0.542 5	0.657 1	11.072 0	2.017 6	7.627 6
388	杀线威	109.612 2	10.703 3	12.352 9	438.448 6	74.525 7	186.693 9
389	甲基苯噻隆	0.014 7	0.021 3	0.019 8	0.058 7	0.017 5	0.027 2
390	丁酮砒威	5.320 0	0.770 7	1.334 0	21.280 0	3.155 1	3.472 7
391	甲基内吸磷亚砒	0.784 0	0.034 3	0.243 3	3.136 0	0.573 0	5.577 5
392	硫环磷	0.097 2	0.013 7	0.027 5	0.388 8	0.057 7	0.035 9
393	氧倍硫磷	0.237 6	0.123 6	0.177 8	0.950 4	0.800 5	0.762 6
394	萘丙胺	0.254 8	0.038 1	0.097 8	1.019 2	0.038 1	0.097 8
395	杀螟硫磷	5.360 0	0.114 8	1.552 4	21.440 0	2.211 2	2.930 8
396	酞酸二丁酯	7.920 0	0.905 4	1.622 9	31.680 0	9.112 1	7.219 4
397	腐霉利	17.320 0	1.029 4	2.584 7	69.280 0	6.343 1	5.620 3
398	可灭隆	0.263 6	0.030 6	0.049 6	1.054 4	0.745 7	0.696 6
399	甲氧咪草烟	0.360 0	0.01	0.16	1.440 0	0.06	0.11
400	亚胺硫磷	3.544 0	0.575 5	0.885 7	14.176 0	8.722 7	9.028 0
401	皮蝇磷	2.626 0	0.348 6	0.691 0	10.504 0	0.993 7	2.377 0
402	phthalic acid, bicyclohex- yl ester	0.135 6	0.160 7	0.295 3	0.542 4	0.695 0	0.815 5
403	吡螨胺	0.050 9	0.01	0.01	0.203 7	0.03	0.05
404	虫螨磷	6.360 0	2.315 7	2.590 2	25.440 0	8.494 7	3.986 3
405	氯亚胺硫磷	31.400 0	6.183 3	12.453 3	125.600 0	5.915 0	5.478 8
406	鱼藤酮	0.464 0	0.323 3	0.567 9	1.856 0	2.475 8	1.966 7
407	亚胺唑	2.052 0	0.895 6	0.696 9	8.208 0	0.704 5	1.041 6
408	噁草酸	0.247 2	0.053 6	0.081 6	0.988 8	0.067 3	0.060 4

表 D.1 (续)

序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
409	乳氟禾草灵	12.400 0	2.380 3	3.449 4	49.600 0	9.127 9	4.590 7
410	2,3,4,5-四氯苯胺	10.720 0	3.912 3	2.597 4	42.880 0	3.927 3	16.433 4
411	苯螨特	1.712 0	0.865 4	0.464 3	6.848 0	1.061 0	2.174 5
412	地乐酯	8.256 0	1.797 8	5.552 8	33.024 0	19.534 3	9.539 4
413	异丙草胺	0.160 0	0.016 0	0.054 8	0.640 0	0.190 6	0.179 0
414	氟硅菊酯	121.600 0	10.677 3	44.847 6	486.400 0	26.823 9	173.927 8
415	乙氧苯草胺	0.160 0	0.308 7	0.691 6	0.640 0	0.757 0	2.660 1
416	四唑酰草胺	2.480 0	0.677 8	1.567 6	9.920 0	0.854 2	3.307 5
G 组							
417	茅草枯	46.148 0	0.177 9	7.294 6	184.592 0	37.887 3	31.044 3
418	2-苯基苯酚	33.976 0	3.138 0	11.342 7	135.904 0	24.507 8	55.229 2
419	3-苯基苯酚	0.800 6	0.073 9	0.267 3	3.202 5	0.577 5	1.301 5
420	4,6-二硝基邻甲酚	0.520 0	0.043 1	0.164 0	2.080 0	0.262 5	0.955 1
421	调果酸	2.280 0	0.007 5	0.306 7	9.120 0	0.166 4	1.811 3
422	氯硝胺	38.844 8	0.605 6	6.869 0	155.379 2	6.460 1	15.208 8
423	氯苯胺灵	3.153 6	0.251 4	1.087 8	12.614 4	1.657 8	3.917 9
424	2-甲-4-氯丙酸	0.979 2	0.004 3	0.176 9	3.916 8	0.178 1	1.071 1
425	特草定	0.702 2	0.010 7	0.090 2	2.809 0	0.115 7	0.292 7
426	2,4-滴	2.372 0	0.009 2	0.378 4	9.488 0	0.130 6	1.714 1
427	麦草畏	253.184 0	24.028 4	156.873 4	1 012.736 0	127.930 9	413.090 7
428	二甲四氯丁酸	2.836 0	0.046 5	0.496 6	11.344 0	1.536 5	1.888 4
429	地乐酚	0.079 2	0.006 6	0.019 4	0.316 8	0.030 3	0.667 7
430	草消酚	0.048 0	0.003 2	0.009 5	0.192 0	0.034 3	0.083 9
431	杀螨醇	131.440 0	4.441 5	8.659 7	525.760 0	0.727 1	14.158 0
432	溴苯腈	0.359 8	0.022 7	0.189 3	1.439 4	0.170 6	2.757 1
433	灭幼脲	4.080 0	0.348 1	4.524 7	16.320 0	0.941 2	4.092 1
434	氯霉索	3.104 0	0.052 4	0.872 2	12.416 0	0.341 1	0.552 4
435	禾草灭	0.159 6	0.003 8	0.008 8	0.638 2	0.016 6	0.047 6
436	杀虫双	80.040 0	2.471 6	15.088 7	320.160 0	48.606 3	123.015 8
437	氟吡草胺钠	6.160 0	0.270 1	3.341 5	24.640 0	2.080 1	7.921 4
438	乙酰磺胺对硝基苯	0.608 0	0.175 8	1.364 3	2.432 0	0.400 0	1.711 2
439	安磺灵	0.982 8	0.061 4	0.230 7	3.931 2	0.867 4	1.496 9
440	三氟羧草醚	23.600 0	0.452 8	6.653 1	94.400 0	6.524 8	8.687 4
441	碘苯腈	0.492 3	0.009 0	0.088 6	1.969 3	0.050 0	0.114 7
442	噁唑菌酮	9.057 6	0.806 2	4.318 6	36.230 4	3.118 0	13.300 8

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序号	名 称	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R	含量/($\mu\text{g/L}$)	重复性限 r	再现性限 R
443	吡氟酰草胺	5.654 4	0.489 5	1.265 3	22.617 6	3.482 9	18.295 4
444	氟吡唑	7.970 4	0.557 6	10.280 8	31.881 6	1.136 8	4.847 9
445	磺菌胺	0.082 8	0.004 7	0.014 9	0.331 2	0.027 4	0.143 2
446	环丙啉磺隆	68.736 0	2.230 1	43.863 0	274.944 0	17.419 3	111.968 9
447	氟磺胺草醚	0.404 0	0.038 1	0.175 2	1.616 0	0.1375	1.057 1
448	氟啶胺	14.120 0	1.247 2	1.896 7	56.480 0	3.525 2	18.271 5
449	吡虫隆	0.004 0	0.000 3	0.000 8	0.016 0	0.000 6	0.003 7
450	氟丙菊酯	1.616 0	0.142 1	0.820 1	6.464 0	1.087 2	3.436 5

附录 E

(资料性附录)

450 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)

450 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.1 450 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-naphthyl acetamide	1-萘基乙酰胺	379	24	aminocarb	灭害威	328
2	2,3,4,5-tetrachloroaniline	2,3,4,5-四氯苯胺	410	25	anilofos	莎稗磷	67
				26	aspon	丙硫特普	230
3	2,4-D	2,4-滴	426	27	atratone	莠去通	248
4	2,6-dichlorobenzamide	2,6-二氯苯甲酰胺	381	28	atrazine	阿特拉津	252
				29	atrazine-desethyl	脱乙基莠去津	380
5	2-phenylphenol	2-苯基苯酚	418	30	azamethiphos	甲基吡啶磷	297
6	3,4,5-trimethacarb	3,4,5-混杀威	3	31	azinphos ethyl	益棉磷	63
7	3-phenylphenol	3-苯基苯酚	419	32	azinphos-methyl	保棉磷	291
8	4,4'-dichlorobenzophenone	4,4'-二氯二苯甲酮	21	33	aziprotryne	叠氮津	11
				34	azoxystrobin	啞菌酯	76
9	4-aminopyridine	4-氨基吡啶	319	35	benalyxyl	苯霜灵	52
10	6-chloro-4-hydroxy-3-phenyl-pyridazin	6-氯-4-羟基-3-苯基吡嗪	88	36	bendiocarb	噁虫威	94
				37	benodanil	麦锈灵	49
11	acephate	乙酰甲胺磷	85	38	benoxacor	解草酮	185
12	acetamiprid	啶虫清	166	39	bensulide	地散磷	73
13	acetochlor	乙草胺	27	40	benzoximate	苯螨特	411
14	acifluorfen	三氟羧草醚	440	41	benzyladenine	苄基腺嘌呤	335
15	aclonifen	苯草醚	105	42	bifenazate	联苯井酯	120
16	acrinathrin	氟丙菊酯	450	43	bioallethrin	生物丙烯菊酯	123
17	alachlor	甲草胺	276	44	bioresmethrin	生物苄呋菊酯	139
18	aldicarb	涕灭威	382	45	bitertanol	联苯三唑醇	59
19	aldicarb sulfone	涕灭威砜	333	46	boscalid	啶酰菌胺	362
20	allethrin	烯丙菊酯	43	47	bromacil	除草定	186
21	allidochlor	二丙烯草胺	243	48	bromfenvinfos	溴苯烯磷	75
22	alloxym-sodium	禾草灭	435	49	bromophos-ethyl	乙基溴硫磷	72
23	ametryn	莠灭净	259	50	bromoxynil	溴苯腈	432

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
51	brompyrazon	溴莠敏	188	85	cinosulfuron	醚黄隆	316
52	bromuconazole	糠菌唑	148	86	clethodim	烯草酮	144
53	bupirimate	乙嘧酚磺酸酯	290	87	clodinafop propargyl	快草酸	64
54	buprofezin	噻嗪酮	126	88	clofentezine	四螨嗪	348
55	butachlor	丁草胺	207	89	clomazone	异噁草松	17
56	butafenacil	氟丙嘧草酯	240	90	cloprop	调果酸	421
57	butocarboxim	丁酮威	325	91	cloquintocet mexyl	解草酯	58
58	butoxycarboxim	丁酮砜威	390	92	clothianidin	噻虫胺	100
59	butralin	仲丁灵	38	93	coumaphos	蝇毒磷	225
60	buturon	播土隆	14	94	coumatetralyl	杀鼠醚	116
61	butylate	丁草敌	253	95	crimidine	鼠立克	84
62	cadusafos	硫线磷	277	96	cumyluron	可灭隆	398
63	carbaryl	甲萘威	5	97	cyanazine	氰草津	18
64	carbendazim	多菌灵	87	98	cyanofenphos	苯腈磷	124
65	carbetamide	双酰草胺	15	99	cycloate	环草敌	251
66	carbofuran	克百威	165	100	cyclosulfamuron	环丙嘧磺隆	446
67	carboxin	萎锈灵	99	101	cycloxydim	噻草酮	134
68	cartap hydrochloride	杀螟丹	266	102	cycluron	环莠隆	4
69	chloramphenicol	氯霉素	434	103	cymoxanil	霜脍氮	327
70	chlorbufam	氯草灵	93	104	cyproconazole	环丙唑醇	113
71	chlordimeform	杀虫脒	326	105	cyprodinil	噻菌磺胺	13
72	chlorfenethol	杀螨醇	431	106	cyromazine	灭蝇胺	83
73	chloridazon	氯草敏	255	107	cythioate	赛灭磷	117
74	chlormephos	氯甲硫磷	98	108	dalapon	茅草枯	417
75	chlormequat	矮壮素	320	109	daminozide	丁酰肼	80
76	chlormequat chloride	矮壮素氯化物	375	110	DEF	脱叶磷	130
77	chlorobenzuron	灭幼脲	433	111	demeton(o+s)	内吸磷	184
78	chlorphoxim	氯辛硫磷	216	112	demeton-s-methyl	甲基内吸磷	336
79	chlorprifos methyl	甲基毒死蜱	60	113	demeton-s-methyl sul- fone	甲基内吸磷砒	340
80	chlorpropham	氯苯胺灵	423	114	demeton-s-methyl sul- foxide	甲基内吸磷亚砒	391
81	chlorpyrifos	毒死蜱	141	115	desmedipham	甜菜胺	41
82	chlorsulfuron	氯磺隆	143	116	diafenthiuron	丁醚脲	232
83	chlorthiophos	虫螨磷	404				
84	chlortoluron	绿麦隆	91				

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
117	dialifos	氯亚胺硫磷	405	150	diphenylamin	二苯胺	378
118	diallate	燕麦敌	26	151	dipropetryn	杀草净	273
119	diazinon	二嗪磷	44	152	disulfoton	乙拌磷	191
120	dibutyl succinate	畜虫避	263	153	disulfoton sulfone	乙拌磷砒	127
121	dicamba	麦草畏	427	154	disulfoton-sulfoxide	乙拌磷亚砒	197
122	dicapthon	异氯磷	347	155	ditalimfos	灭菌磷	202
123	dichlofenthion	除线磷	357	156	dithiopyr	氟硫草定	235
124	dichlofluanid	抑菌灵	57	157	diuron	敌草隆	97
125	dichlorvos	敌敌畏	332	158	DMST	—	250
126	diclobutrazole	苄氯三唑醇	53	159	DNOC	4, 6-二硝基邻 甲酚	420
127	dicloran	氯硝胺	422	160	dodemorph	吗菌灵	195
128	dicrotophos	百治磷	174	161	edifenphos	敌瘟磷	45
129	diethyltoluamide	避蚊胺	157	162	EPN	苯硫磷	296
130	diflufenican	吡氟酰草胺	443	163	epoxiconazole	氟环唑	215
131	diflufenzopyr-sodium	氟吡草胺钠	437	164	EPTC	茵草敌	156
132	dimefox	甲氟磷	377	165	etaconazole	乙环唑	54
133	dimehypo	杀虫双	436	166	ethidimuron	磺噻隆	24
134	dimethachloro	二甲草胺	102	167	ethiofencarb	乙硫苯威	257
135	dimethametryn	异戊乙净	182	168	ethiofencarb-sulfoxide	乙硫苯威亚砒	337
136	dimethenamid	二甲酚草胺	30	169	Ethion	乙硫磷	231
137	dimethirimol	甲菌定	329	170	ethiprole	氟吡唑	444
138	dimethoate	乐果	171	171	ethirimol	乙菌定	163
139	dimethomorph	烯酰吗啉	313	172	ethofumesate	乙氧吡草黄	110
140	dimethyl phthalate	邻苯二甲酸二 甲酯	383	173	ethoprophos	灭线磷	177
141	diniconazole	烯啶醇	298	174	ethoxyquin	乙氧喹啉	331
142	dinitramine	敌乐胺	359	175	ethoxysulfuron	乙氧嘧磺隆	234
143	dinoseb	地乐酚	429	176	etobenzanid	乙氧苯草胺	415
144	dinoseb acetate	地乐酯	412	177	etridiazol	土菌灵	179
145	dinotefuran	呋草胺	385	178	etrimfos	乙噻硫磷	115
146	dinoterb	草消酚	430	179	famoxadone	噁唑菌酮	442
147	dioxabenzofos	蔬果磷	387	180	famphur	氨磷磷	51
148	dioxacarb	二氧威	334	181	fenamiphos sulfone	苯线磷砒	217
149	diphenamid	双苯酰草胺	176	182	fenamiphos sulfoxide	苯线磷亚砒	211

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
183	fenarimol	氯苯嘧啶醇	55	216	flurazuron	啶唑脒	154
184	fenazaquin	啶唑醚	128	217	fluridone	氟啶草酮	214
185	fenbuconazole	腈苯唑	218	218	flurochloridone	氟咯草酮	354
186	fenfuram	黑穗胺	160	219	flurtamone	呋草酮	136
187	fenitrothion	杀螟硫磷	395	220	flusilazole	氟硅唑	47
188	fenobucarb	仲丁威	162	221	flusulfamide	磺菌胺	445
189	fenoxanil	氟菌胺	213	222	fluthiacet methyl	氟噻乙草酯	150
190	fenoxycarb	苯氧威	203	223	flutolanil	氟酰胺	50
191	fenpropathrin	甲氧菊酯	363	224	flutriafol	粉唑醇	121
192	fenpropidin	苯锈定	341	225	folpet	灭菌丹	339
193	fenpropimorph	丁苯吗琳	286	226	fomesafen	氟磺胺草醚	447
194	fenpyroximate	啶唑酯	237	227	fonofos	地虫硫磷	178
195	fensulfothin	丰索磷	205	228	fuberidazole	麦穗灵	323
196	fenthion	倍硫磷	192	229	furalaxyl	抑菌丙胺酯	122
197	fenthion oxon	氧倍硫磷	393	230	furathiocarb	呋线威	366
198	fenthion sulfone	倍硫磷砒	353	231	furmecyclox	拌种胺	180
199	fenthion sulfoxide	倍硫磷亚砒	36	232	haloxyfop-2-ethoxyethyl	氟吡乙禾灵	371
200	fentin-chloride	氯化砒瘟锡	221	233	haloxyfop-methyl	精氟吡甲禾灵	70
201	fentrazamide	四唑酰草胺	416	234	heptanophos	庚虫磷	271
202	fenuron	非草隆	82	235	hexaflumuron	氟铃脒	152
203	flamprop isopropyl	麦草氟异丙酯	145	236	hexazinone	环嗪酮	181
204	flamprop methyl	甲基麦草氟异丙酯	138	237	hexythiazox	啶唑酮	364
				238	hymexazol	噁霉灵	374
205	fluazifop butyl	精吡磺草隆	71	239	imazalil	抑霉唑	199
206	fluazinam	氟啶胺	448	240	imazamethabenz-methyl	甲基咪草酯	196
207	fluazuron	吡虫隆	449	241	imazamox	甲氧咪草烟	399
208	flubenzimine	啶唑啉	369	242	imazapic	甲咪唑烟酸	342
209	fluchloralin	氟乙氟灵	142	243	imazaquin	咪唑喹啉酸	208
210	flufenacet	氟噻草胺	226	244	imazethapyr	咪唑乙烟酸	34
211	flufenoxuron	氟虫脒	78	245	imibenconazole	亚胺唑	407
212	flumetsulam	啶啉磺草胺	299	246	imibenconazole-des-benzyl	脱苯甲基亚胺唑	107
213	flumiclorac-pentyl	胺氟草酯	238				
214	fluometuron	伏草隆	173	247	imidacloprid	吡虫啉	23
215	fluorochloridone	氟咯草酮	206	248	indoxacarb	茚虫威	79

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
249	ioxynil	碘苯腈	441	283	methacrifos	虫螨畏	267
250	iprobenfos	异稻瘟净	111	284	methamidophos	甲胺磷	155
251	iprovalicarb	丙森锌	48	285	methfuroxam	呋菌胺	172
252	isazofos	氯唑磷	356	286	methidathion	杀扑磷	42
253	isocarbamid	丁脞酰胺	324	287	methiocarb	甲硫威	169
254	isofenphos	异柳磷	219	288	methobromuron	溴谷隆	103
255	isomethiozin	丁噻草酮	25	289	methomyl	灭多威	321
256	isoproc carb	异丙威	2	290	methoprotryne	盖草津	29
257	isopropalin	异丙乐灵	288	291	methoxyfenozide	甲氧虫酰肼	228
258	isoprothiolane	稻瘟灵	198	292	metosulam	磺草胺唑	318
259	isoproturon	异丙隆	247	293	metoxuron	甲氧隆	170
260	isouron	异唑隆	90	294	metribuzin	赛克津	249
261	isoxaben	异噁酰草胺	135	295	mevinphos	速灭磷	10
262	isoxaflutole	异噁氟草	66	296	molinate	禾草敌	86
263	kadethrin	噁噁菊酯	314	297	monalide	庚酰草胺	175
264	kresoxim-methyl	亚胺菌	209	298	monolinuron	绿谷隆	9
265	lactofen	乳氟禾草灵	409	299	monuron	灭草隆	158
266	linuron	利谷隆	270	300	myclobutanil	腈菌唑	33
267	malathion	马拉硫磷	303	301	napropamide	萘丙胺	394
268	MCPB	二甲四氯丁酸	428	302	neburon	草不隆	108
269	mecarbam	灭蚜磷	301	303	nicotine	烟碱	81
270	mecoprop	2-甲-4-氯丙酸	424	304	nitentpyram	烯啶虫胺	28
271	mefenacet	苯噻酰草胺	285	305	norflurazon	氟草敏	349
272	mefenoxam	精甲霜灵	109	306	novaluron	氟醚脲	153
273	mefenpyr-diethyl	吡唑解草酯	310	307	nuarimol	氟苯嘧啶醇	289
274	mepanipyrim	噻菌胺	167	308	ofurace	甲呋酰胺	194
275	mephosfolan	地安磷	106	309	omethoate	氧乐果	330
276	mepiquat chloride	甲呱金翁	242	310	oryzalin	安磺灵	439
277	mepronil	灭锈胺	190	311	oxamyl	杀线威	388
278	metalaxyl	甲霜灵	193	312	oxycarboxin	氧化萎锈灵	189
279	metamitron	苯噻草酮	246	313	oxyflurofen	乙氧氟草醚	224
280	metazachlor	吡唑草胺	278	314	paclobutrazol	多效唑	35
281	metconazole	叶菌唑	132	315	paraoxon methyl	甲基对氧磷	20
282	methabenzthiazuron	甲基苯噻隆	389	316	paraoxon-ethyl	对氧磷	343

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
317	pebulate	克草敌	386	348	propachlor	毒草胺	6
318	penconazole	戊菌唑	32	349	propamocarb	霜霉威	244
319	pencycuron	纹枯脲	300	350	propanil	敌稗	164
320	phenmedipham	甜菜宁	119	351	propaquizafop	噁草酸	408
321	phenothrin	苯醚菊酯	220	352	propargite	炔螨特	147
322	phenthoate	稻丰散	293	353	propazine	扑天津	95
323	phorate	甲拌磷	104	354	propetamphos	胺丙畏	279
324	phorate sulfone	甲拌磷砒	283	355	propham	苯胺灵	1
325	phorate sulfoxide	甲拌磷亚砒	187	356	propiconazole	丙环唑	140
326	phosalone	伏杀硫磷	227	357	propisochlor	异丙草胺	413
327	phosfolan	硫环磷	392	358	propoxur	残杀威	89
328	phosmet	亚胺硫磷	400	359	prosulfocarb	苄草丹	272
329	phosphamidon	磷胺	118	360	pymetrozin	吡蚜酮	254
330	phoxim	辛硫磷	200	361	pyraclofos	吡啶硫磷	307
331	phthalic acid, biscyclohexyl ester	—	402	362	pyraclostrobin	百克敏	312
332	phthalic acid, dibutylester	酞酸二丁酯	396	363	pyrazophos	吡菌磷	77
333	phthalic acid, benzyl butyl ester	酞酸苯甲基丁酯	355	364	pyrazosulfuron-ethyl	吡啶磺隆	317
334	phthalimide	邻苯二甲酰亚胺	376	365	pyrazoxyfen	苄草唑	368
335	picolinafen	氟吡啶草胺	149	366	pyributicarb	稗草畏	304
336	picoxystrobin	啶氧菌酯	308	367	pyridaphenthion	啶噻硫磷	305
337	piperonyl butoxide	增效醚	223	368	pyrifenoxy	啶斑肟	346
338	piperophos	呱草磷	222	369	pyrifitalid	环酯草醚	131
339	pirimicarb	抗蚜威	16	370	pyrimethanil	啶霉胺	159
340	pirimiphos methyl	甲基啶啉磷	125	371	pyrimidifen	啶螨醚	365
341	pretilachlor	丙草胺	46	372	pyrimitate	啶啉磷	204
342	prochloraz	咪鲜胺	229	373	pyriproxyfen	蚊蝇醚	133
343	procymidone	腐霉利	397	374	pyroquilon	咯嗉酮	322
344	profenofos	丙溴磷	311	375	quinalphos	嗉硫磷	201
345	prometon	扑灭通	168	376	quinoclamine	灭藻醌	161
346	prometryne	扑草净	19	377	quinoxiphen	苯氧喹啉	352
347	pronamide	拿草特	101	378	quizalofop-ethyl	啶禾灵	69
				379	rabenzazole	吡啶啉	7
				380	resmethrin	苄呋菊酯	361
				381	ronnel	皮蝇磷	401

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
382	rotenone	鱼藤酮	406	416	thiabendazole	噻菌灵	245
383	sebutylazine	另丁津	262	417	thiacloprid	噻虫啉	22
384	secbumeton	密草通	12	418	thiamethoxam	噻虫嗪	114
385	silaflofen	氟硅菊酯	414	419	thiazopyr	噻唑烟酸	315
386	simeconazole	硅氟唑	281	420	thifensulfuron-methyl	噻吩磺隆	233
387	simeton	西玛通	384	421	thiobencarb	禾草丹	274
388	simetryn	西草净	8	422	thiodicarb	硫双威	306
389	spinosad	多杀菌素	241	423	thiofanox	久效威	92
390	spirodiclofen	螺螨酯	236	424	thiofanox-sulfoxide	久效威亚砷	265
391	spiroxamine	螺噁茂胺	39	425	thiometon	甲基乙拌磷	338
392	sulfallate	菜草畏	256	426	thionazin	虫线磷	269
393	sulfanitran	乙酰磺胺对硝基苯	438	427	thiophanat ethyl	硫菌灵	68
				428	thiophanate methyl	甲基硫菌灵	62
394	sulfotep	治螟磷	294	429	tolclofos methyl	甲基立枯磷	40
395	sulprofos	硫丙磷	295	430	tralkoxydim	苯草酮	302
396	tau-fluvalinate	氟胺虱菊酯	372	431	trans-permethin	反式氯菊酯	367
397	tebuconazole	戊唑醇	287	432	triadimefon	三唑酮	282
398	tebufenpyrad	吡螨胺	403	433	triadimenol	三唑醇	37
399	tebupirimfos	丁基嘧啶磷	292	434	triallate	野麦畏	350
400	tebutam	牧草胺	264	435	triasulfuron	醚苯磺隆	74
401	tebuthiuron	木草隆	260	436	triazophos	三唑磷	129
402	temephos	双硫磷	239	437	triazoxide	咪唑嗪	268
403	TEPP	特普	112	438	trichlo, onat	毒壤磷	360
404	tepraloxym	吡喃草酮	61	439	trichlorphon	敌百虫	183
405	terbacil	特草定	425	440	tridemorph	十三吗啉	284
406	terbufos	特丁硫磷	280	441	trietazine	草达津	261
407	terbufos sulfone	特丁硫磷砷	358	442	trifloxystrobin	肟菌酯	151
408	terbumeton	特丁通	258	443	triflumuron	杀铃脲	65
409	terbuthylazine	特丁津	96	444	trifluralin	氟乐灵	137
410	terrbucarb	特草灵	31	445	tri- <i>n</i> -butyl phosphate	三正丁基磷酸盐	275
411	tert-butylamine	叔丁基胺	373	446	triticonazole	戊叉菌唑	210
412	tetrachlorvinphos	杀虫畏	146	447	uniconazole	烯效唑	345
413	tetraconazole	四氟醚唑	309	448	vinclozolin	乙烯菌核利	344
414	tetramethirn	胺菊酯	56	449	zeta cypermethrin	Z-氟虱菊酯	370
415	thenylchlor	噻吩草胺	212	450	ziram	福美锌	351