

表20 検討農薬の保持時間(RT)及びGC/MS(SIM)測定に用いるモニターイオン

きく科野菜

	Pesticides	Group	RT (min)	Monitor ion		
				1	2	3
2	Metamidophos	B	6.10	94.0	95.0	141.0
3	Dichlorbos	A	6.26	109.1	184.9	79.0
4	EPTC	B	7.48	128.0	86.0	132.1
6	Acephate	B	8.29	136.0	94.0	95.0
8	Fenobcarb	B	10.34	121.2	150.1	122.0
9	Ethoprophos	A	10.69	157.9	97.0	125.9
10	Chlorpropham	B	10.95	127.0	213.0	154.0
11	Trifluralin	C	10.99	306.0	264.0	290.0
14	$\alpha$ -BHC	A	11.49	181.0	182.9	218.9
15	Thiometon	B	11.64	88.0	93.0	125.0
18	$\beta$ -BHC	A	12.05	218.9	216.8	180.9
19	$\gamma$ -BHC	B	12.22	218.9	180.9	216.9
21	Diazinon	B	12.41	179.1	304.1	137.0
23	Etrimfos	B	12.77	292.0	277.0	181.1
24	$\delta$ -BHC	A	12.84	219.0	180.9	182.9
25	Pirimicarb	B	12.95	166.1	72.0	238.1
26	Ethiofencarb	A	13.14	107.0	168.0	108.1
29	Metribuzin	A	13.45	198.0	199.0	144.0
30	Parathion-Me	B	13.59	263.0	125.0	109.0
31	Toloclofos-methyl	A	13.61	264.9	266.9	124.9
34	Pirimiphos-methyl	A	14.03	290.0	276.0	305.1
35	Fenitrothion	B	14.11	277.1	125.0	260.0
36	Methiocarb	A	14.14	168.0	153.0	109.0
37	Dichlofluanid	B	14.27	123.0	223.9	225.9
38	Malathion	A	14.28	173.1	125.0	93.0
41	Chlorpyrifos	B	14.43	313.9	198.9	196.9
42	Diethofencarb	A	14.45	124.0	267.2	225.1
44	Thiobencarb	B	14.49	100.2	72.1	257.0
46	Aldrin	A	14.56	262.8	260.8	264.8
47	Parathion	B	14.61	291.1	97.0	109.0
52	Pendimethrin	B	15.13	252.1	162.1	253.0
61	Chinomethionate	A	15.91	234.0	206.0	116.1
64	Butamifos	B	16.12	286.0	199.9	231.9
65	Flutoluanil	A	16.26	173.2	323.1	145.0
66	Prothiofos	B	16.37	309.0	161.9	266.9
70	p,p'-DDE	A	16.54	246.0	315.9	317.9
71	Myclobutanil	B	16.61	179.0	181.0	149.9
73	Dieldrin	B	16.69	262.8	278.8	276.8
76	Cyproconazole-1	B	16.99	222.1	139.0	125.0
77	Endrin	A	17.13	262.8	260.8	242.9
81	p,p'-DDD	B	17.40	235.0	237.0	165.1
82	o,p'-DDT	A	17.45	235.0	237.0	199.0
83	Mepronil	B	17.65	269.1	119.1	91.1
86	Lenacil	A	18.08	153.0	110.0	136.0
88	p,p'-DDT	B	18.16	235.0	237.0	165.1
91	Captafol	A	18.62	79.1	80.1	77.0
93	Iprodione	B	18.89	314.0	315.9	186.9
96	EPN	B	19.12	157.1	169.0	141.0
100	Cyhalothrin-1	A	19.89	181.0	197.0	199.0
104	Cyhalothrin-2	A	20.08	181.0	197.0	199.0
107	Fenarimol	A	20.38	139.0	219.0	250.9
110	Permethrin-1	B	21.11	183.2	184.0	165.0
111	Pyridaben	A	21.17	147.1	148.1	132.1
113	Cyfluthrin-1	B	21.64	206.0	226.0	199.0
115	Cypermethrin-1	A	22.09	181.0	163.0	164.9
116	Flucythrinate-1	A	22.09	199.1	451.2	157.0
119	Fenvalerate-1	B	23.06	167.1	225.1	181.0
120	Fluvalenate-1	A	23.27	250.1	252.0	181.0
122	Deltamethrin-1	A	24.16	181.0	252.9	254.8

表21 検討農薬の保持時間(RT)及びGC/MS(SIM)測定に用いるモニターイオン

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	Pesticides	Group	RT (min)	Monitor ion		
				1	2	3
3	Dichlorbos	A	6.26	109.1	184.9	79.0
4	EPTC	B	7.48	128.0	86.0	132.1
8	Fenobcarb	B	10.34	121.2	150.1	122.0
10	Chlorpropham	B	10.95	127.0	213.0	154.0
11	Trifluralin	C	10.99	306.0	264.0	290.0
12	Bendiocarb	A	11.09	151.1	126.0	166.0
15	Thiometon	B	11.64	88.0	93.0	125.0
22	Tefluthrin	A	12.70	177.0	197.0	199.0
23	Etrimfos	B	12.77	292.0	277.0	181.1
25	Pirimicarb	B	12.95	166.1	72.0	238.1
26	Ethiofencarb	A	13.14	107.0	168.0	108.1
29	Metribuzin	A	13.45	198.0	199.0	144.0
30	Parathion-Me	B	13.59	263.0	125.0	109.0
31	Toloclofos-methyl	A	13.61	264.9	266.9	124.9
34	Pirimiphos-methyl	A	14.03	290.0	276.0	305.1
35	Fenitrothion	B	14.11	277.1	125.0	260.0
36	Methiocarb	A	14.14	168.0	153.0	109.0
37	Dichlofluandid	B	14.27	123.0	223.9	225.9
38	Malathion	A	14.28	173.1	125.0	93.0
41	Chlorpyrifos	B	14.43	313.9	198.9	196.9
42	Diethofencarb	A	14.45	124.0	267.2	225.1
44	Thiobencarb	B	14.49	100.2	72.1	257.0
51	Chlorfenviphos-E	A	15.11	266.9	268.9	323.0
52	Pendimethrin	B	15.13	252.1	162.1	253.0
55	Chlorfenviphos-Z	A	15.34	266.9	268.9	323.0
61	Chinomethionate	A	15.91	234.0	206.0	116.1
65	Flutoluanil	A	16.26	173.2	323.1	145.0
83	Mepronil	B	17.65	269.1	119.1	91.1
86	Lenacil	A	18.08	153.0	110.0	136.0
91	Captafol	A	18.62	79.1	80.1	77.0
93	Iprodione	B	18.89	314.0	315.9	186.9
100	Cyhalothrin-1	A	19.89	181.0	197.0	199.0
104	Cyhalothrin-2	A	20.08	181.0	197.0	199.0
107	Fenarimol	A	20.38	139.0	219.0	250.9
110	Permethrin-1	B	21.11	183.2	184.0	165.0
115	Cypermethrin-1	A	22.09	181.0	163.0	164.9
116	Flucythrinate-1	A	22.09	199.1	451.2	157.0
119	Fenvalerate-1	B	23.06	167.1	225.1	181.0

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	Pesticides	Group	RT (min)	Monitor ion		
				1	2	3
3	Dichlorbos	A	6.26	109.1	184.9	79.0
4	EPTC	B	7.48	128.0	86.0	132.1
6	Acephate	B	8.29	136.0	94.0	95.0
8	Fenobcarb	B	10.34	121.2	150.1	122.0
10	Chlorpropham	B	10.95	127.0	213.0	154.0
11	Trifluralin	C	10.99	306.0	264.0	290.0
14	$\alpha$ -BHC	A	11.49	181.0	182.9	218.9
15	Thiometon	B	11.64	88.0	93.0	125.0
18	$\beta$ -BHC	A	12.05	218.9	216.8	180.9
19	$\gamma$ -BHC	B	12.22	218.9	180.9	216.9
21	Diazinon	B	12.41	179.1	304.1	137.0
23	Etrimfos	B	12.77	292.0	277.0	181.1
24	$\delta$ -BHC	A	12.84	219.0	180.9	182.9
25	Pirimicarb	B	12.95	166.1	72.0	238.1
26	Ethiofencarb	A	13.14	107.0	168.0	108.1
29	Metribuzin	A	13.45	198.0	199.0	144.0
30	Parathion-Me	B	13.59	263.0	125.0	109.0
31	Toloclofos-methyl	A	13.61	264.9	266.9	124.9
34	Pirimiphos-methyl	A	14.03	290.0	276.0	305.1
35	Fenitrothion	B	14.11	277.1	125.0	260.0
36	Methiocarb	A	14.14	168.0	153.0	109.0
37	Dichlofluanid	B	14.27	123.0	223.9	225.9
38	Malathion	A	14.28	173.1	125.0	93.0
40	Metolachlor	A	14.39	162.1	238.0	146.1
41	Chlorpyrifos	B	14.43	313.9	198.9	196.9
42	Diethofencarb	A	14.45	124.0	267.2	225.1
44	Thiobencarb	B	14.49	100.2	72.1	257.0
46	Aldrin	A	14.56	262.8	260.8	264.8
47	Parathion	B	14.61	291.1	97.0	109.0
48	Isofenpos-oxon	A	14.61	120.0	228.9	200.9
50	Fosthiazate-I	B	14.95	194.9	96.9	198.9
51	Chlorfenviphos-E	A	15.11	266.9	268.9	323.0
52	Pendimethrin	B	15.13	252.1	162.1	253.0
53	Isofenpos	A	15.30	213.0	120.0	121.0
55	Chlorfenviphos-Z	A	15.34	266.9	268.9	323.0
61	Chinomethionate	A	15.91	234.0	206.0	116.1
64	Butamifos	B	16.12	286.0	199.9	231.9
65	Flutoluanil	A	16.26	173.2	323.1	145.0
70	p,p'-DDE	A	16.54	246.0	315.9	317.9
71	Myclobutanil	B	16.61	179.0	181.0	149.9
73	Dieldrin	B	16.69	262.8	278.8	276.8
76	Cyproconazole-1	B	16.99	222.1	139.0	125.0
77	Endrin	A	17.13	262.8	260.8	242.9
81	p,p'-DDD	B	17.40	235.0	237.0	165.1
82	o,p'-DDT	A	17.45	235.0	237.0	199.0
83	Mepronil	B	17.65	269.1	119.1	91.1
86	Lenacil	A	18.08	153.0	110.0	136.0
88	p,p'-DDT	B	18.16	235.0	237.0	165.1
91	Captafol	A	18.62	79.1	80.1	77.0
93	Iprodione	B	18.89	314.0	315.9	186.9
96	EPN	B	19.12	157.1	169.0	141.0
100	Cyhalothrin-1	A	19.89	181.0	197.0	199.0
104	Cyhalothrin-2	A	20.08	181.0	197.0	199.0
107	Fenarimol	A	20.38	139.0	219.0	250.9
108	Pyraclofos	B	20.64	360.0	138.0	193.9
110	Permethrin-1	B	21.11	183.2	184.0	165.0
111	Pyridaben	A	21.17	147.1	148.1	132.1
113	Cyfluthrin-1	B	21.64	206.0	226.0	199.0
115	Cypermethrin-1	A	22.09	181.0	163.0	164.9
116	Flucythrinate-1	A	22.09	199.1	451.2	157.0
119	Fenvalerate-1	B	23.06	167.1	225.1	181.0
120	Fluvalenate-1	A	23.27	250.1	252.0	181.0
122	Deltamethrin-1	A	24.16	181.0	252.9	254.8

表23

検討農薬の保持時間(RT)及びGC/MS(SIM)測定に用いるモニターイオン

なす科野菜

	Pesticides	Group	RT (min)	Monitor ion		
				1	2	3
2	Metamidophos	B	6.10	94.0	95.0	141.0
3	Dichlorobos	A	6.28	109.1	184.9	79.0
4	EPTC	B	7.48	128.0	86.0	132.1
6	Acephate	B	8.29	136.0	94.0	95.0
8	Fenobcarb	B	10.34	121.2	150.1	122.0
9	Ethoprophos	A	10.69	157.9	97.0	125.9
10	Chlorpropham	B	10.95	127.0	213.0	154.0
11	Trifluralin	C	10.99	306.0	284.0	290.0
13	Cadusafos	B	11.28	159.0	157.9	96.9
14	$\alpha$ -BHC	A	11.49	181.0	182.9	218.9
15	Thiometon	B	11.64	88.0	93.0	125.0
16	Dimethoate	A	11.76	87.0	125.0	93.0
18	$\beta$ -BHC	A	12.05	218.9	216.8	180.9
19	$\gamma$ -BHC	B	12.22	218.9	180.9	216.9
21	Diazinon	B	12.41	179.1	304.1	137.0
23	Etrimfos	B	12.77	292.0	277.0	181.1
24	$\delta$ -BHC	A	12.84	219.0	180.9	182.9
25	Pirimicarb	B	12.95	166.1	72.0	236.1
26	Ethiofencarb	A	13.14	107.0	188.0	108.1
29	Metribuzin	A	13.45	198.0	199.0	144.0
30	Parathion-Me	B	13.59	263.0	125.0	109.0
31	Tolclofos-methyl	A	13.61	264.9	266.9	124.9
34	Pirimiphos-methyl	A	14.03	290.0	276.0	305.1
35	Fenitrothion	B	14.11	277.1	125.0	260.0
36	Methiocarb	A	14.14	168.0	153.0	109.0
37	Dichlofluanid	B	14.27	123.0	223.9	225.9
38	Malathion	A	14.28	173.1	125.0	93.0
40	Metolachlor	A	14.39	162.1	238.0	146.1
41	Chlorpyrifos	B	14.43	313.9	198.9	196.9
42	Diethofencarb	A	14.45	124.0	267.2	225.1
44	Thiobencarb	B	14.49	100.2	72.1	257.0
46	Aldrin	A	14.58	262.8	260.8	264.8
47	Parathion	B	14.61	291.1	97.0	109.0
50	Fosthiazate-1	B	14.95	194.9	96.9	198.9
51	Chlorfenviphos-E	A	15.11	266.9	268.9	323.0
52	Pendimethrin	B	15.13	252.1	162.1	253.0
55	Chlorfenviphos-Z	A	15.34	266.9	268.9	323.0
59	Captan	B	15.55	79.0	80.1	149.0
61	Chinomethionate	A	15.91	234.0	206.0	116.1
64	Butamifos	B	16.12	266.0	199.9	231.9
65	Flutolanil	A	16.26	173.2	323.1	145.0
67	Pretilachlor	A	16.37	238.2	162.1	176.1
68	Fludioxonil	C	16.39	248.0	127.0	154.0
70	p,p'-DDE	A	16.54	246.0	315.9	317.9
71	Myclobutanil	B	16.61	179.0	181.0	149.9
73	Dieldrin	B	16.69	262.8	278.8	276.8
75	Chlorfenapyr	C	16.86	247.0	137.0	328.0
76	Cyproconazole-1	B	16.99	222.1	139.0	125.0
77	Endrin	A	17.13	262.8	260.8	242.9
79	Chlorobenzilate	B	17.20	250.9	253.0	139.0
80	Fensulfthion	A	17.25	292.0	293.0	156.0
81	p,p'-DDD	B	17.40	235.0	237.0	165.1
82	o,p'-DDT	A	17.45	235.0	237.0	199.0
83	Mepromil	B	17.65	269.1	119.1	91.1
86	Lenacil	A	18.08	153.0	110.0	136.0
88	p,p'-DDT	B	18.18	235.0	237.0	165.1
90	Tebconazole	B	18.43	125.0	250.0	127.0
91	Captafol	A	18.62	79.1	80.1	77.0
93	Iprodione	B	18.89	314.0	315.9	186.9
94	Acetamiprid	A	19.01	152.0	126.0	166.0
95	Bifenthrin	C	19.08	181.0	165.0	141.0
96	EPN	B	19.12	157.1	169.0	141.0
97	Tebfenpyrad	B	19.37	333.1	171.0	318.0
100	Cyhalothrin-1	A	19.89	181.0	197.0	199.0
101	Pyriproxyfen	B	19.95	136.0	96.0	226.0
104	Cyhalothrin-2	A	20.08	181.0	197.0	199.0
108	Acrinathrin	B	20.23	181.0	93.1	208.0
107	Fenarimol	A	20.38	139.0	219.0	250.9
108	Pyraclifos	B	20.64	360.0	138.0	193.9
110	Permethrin-1	B	21.11	183.2	184.0	165.0
111	Pyridaben	A	21.17	147.1	148.1	132.1
113	Cyfluthrin-1	B	21.64	206.0	226.0	199.0
115	Cypermethrin-1	A	22.09	181.0	163.0	164.9
116	Flucythrinate-1	A	22.09	199.1	451.2	157.0
119	Fenvalerate-1	B	23.06	167.1	225.1	181.0
120	Fluvalenate-1	A	23.27	250.1	252.0	181.0
121	Difenoconazole-1	B	23.82	323.0	264.9	324.9
122	Deltamethrin-1	A	24.16	181.0	252.9	254.8

表24

検討農薬の保持時間(RT)及びGC/MS(SIM)測定に用いるモニターイオン

## ゆり科野菜

	Pesticides	Group	RT (min)	Monitor ion		
				1	2	3
1	Aldicarb(dec)	A	—	115.0	68.0	100.0
3	Dichlorbos	A	6.26	109.1	184.9	79.0
4	EPTC	B	7.48	128.0	86.0	132.1
6	Acephate	B	8.29	136.0	94.0	95.0
8	Fenobcarb	B	10.34	121.2	150.1	122.0
9	Ethoprophos	A	10.69	157.9	97.0	125.9
10	Chlorpropham	B	10.95	127.0	213.0	154.0
11	Trifluralin	C	10.99	306.0	264.0	290.0
15	Thiometon	B	11.64	88.0	93.0	125.0
21	Diazinon	B	12.41	179.1	304.1	137.0
23	Etrimfos	B	12.77	292.0	277.0	181.1
25	Pirimicarb	B	12.95	166.1	72.0	238.1
26	Ethiofencarb	A	13.14	107.0	168.0	108.1
29	Metribuzin	A	13.45	198.0	199.0	144.0
31	Toloclofos-methyl	A	13.61	264.9	266.9	124.9
34	Pirimiphos-methyl	A	14.03	290.0	276.0	305.1
35	Fenitrothion	B	14.11	277.1	125.0	260.0
36	Methiocarb	A	14.14	168.0	153.0	109.0
37	Dichlofluanid	B	14.27	123.0	223.9	225.9
38	Malathion	A	14.28	173.1	125.0	93.0
40	Metolachlor	A	14.39	162.1	238.0	146.1
41	Chlorpyrifos	B	14.43	313.9	198.9	196.9
42	Diethofencarb	A	14.45	124.0	267.2	225.1
44	Thiobencarb	B	14.49	100.2	72.1	257.0
47	Parathion	B	14.61	291.1	97.0	109.0
48	Isofenpos-oxon	A	14.61	120.0	228.9	200.9
51	Chlorfenviphos-E	A	15.11	266.9	268.9	323.0
52	Pendimethrin	B	15.13	252.1	162.1	253.0
53	Isofenpos	A	15.30	213.0	120.0	121.0
55	Chlorfenviphos-Z	A	15.34	266.9	268.9	323.0
61	Chinomethionate	A	15.91	234.0	206.0	116.1
62	Vamidothion	B	15.94	145.0	87.0	146.0
64	Butamifos	B	16.12	286.0	199.9	231.9
65	Flutoluanil	A	16.26	173.2	323.1	145.0
66	Prothiofos	B	16.37	309.0	161.9	266.9
68	Fludioxonil	C	16.39	248.0	127.0	154.0
71	Myclobutanil	B	16.61	179.0	181.0	149.9
74	Difenzoquat	B	16.71	234.0	77.0	233.1
76	Cyproconazole-1	B	16.99	222.1	139.0	125.0
80	Fensulfothion	A	17.25	292.0	293.0	156.0
83	Mepronil	B	17.65	269.1	119.1	91.1
86	Lenacil	A	18.08	153.0	110.0	136.0
90	Tebconazole	B	18.43	125.0	250.0	127.0
91	Captafol	A	18.62	79.1	80.1	77.0
93	Iprodione	B	18.89	314.0	315.9	186.9
100	Cyhalothrin-1	A	19.89	181.0	197.0	199.0
104	Cyhalothrin-2	A	20.08	181.0	197.0	199.0
106	Acrinathrin	B	20.23	181.0	93.1	208.0
107	Fenarimol	A	20.38	139.0	219.0	250.9
108	Pyraclufos	B	20.64	360.0	138.0	193.9
110	Permethrin-1	B	21.11	183.2	184.0	165.0
111	Pyridaben	A	21.17	147.1	148.1	132.1
113	Cyfluthrin-1	B	21.64	206.0	226.0	199.0
115	Cypermethrin-1	A	22.09	181.0	163.0	164.9
116	Flucythrinate-1	A	22.09	199.1	451.2	157.0
119	Fenvalerate-1	B	23.06	167.1	225.1	181.0
120	Fluvalenate-1	A	23.27	250.1	252.0	181.0
122	Deltamethrin-1	A	24.16	181.0	252.9	254.8