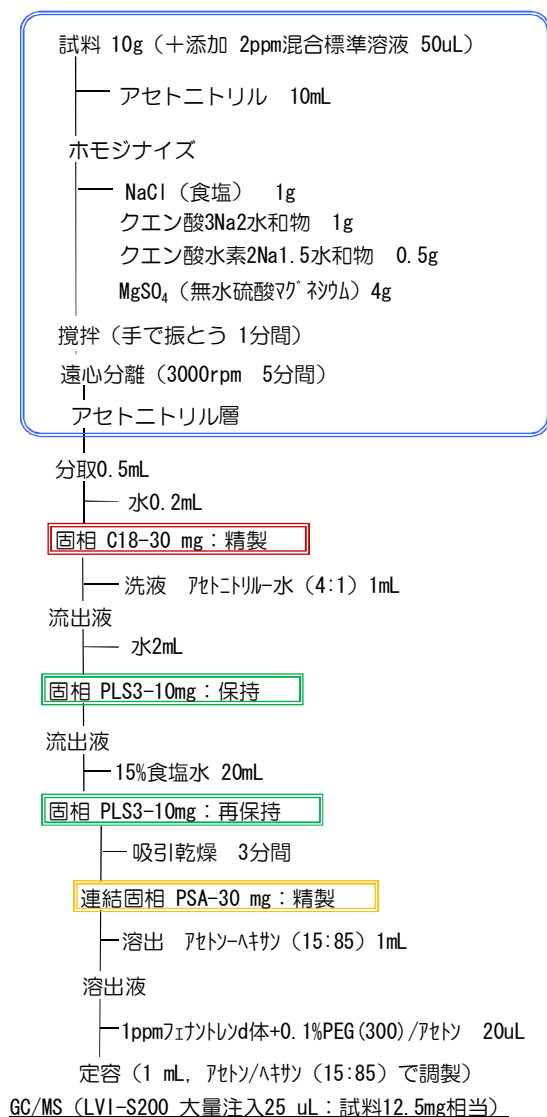


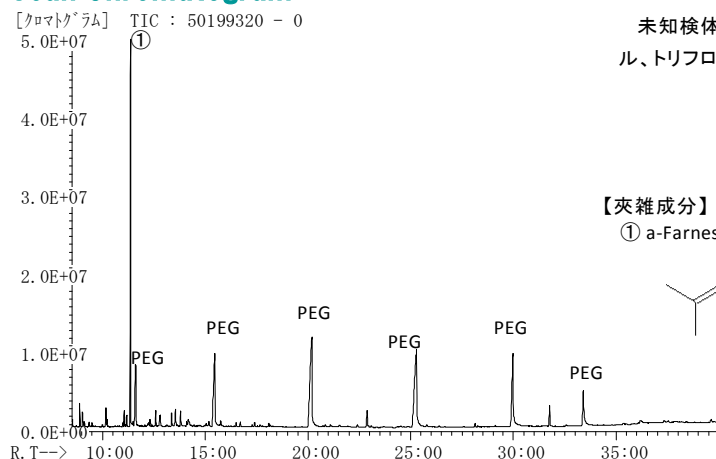
りんご（ふじ） MA-GCB1

前処理フロー



GC/MS (LVI-S200 大量注入25 uL : 試料12.5mg相当)

Scan Chromatogram



目的/実験方法

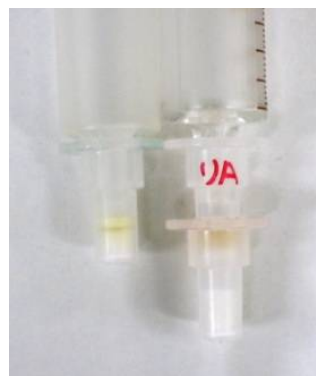
手作業による添加回収試験 (GC-B1法)

- 添加濃度 (試料中) : 10ppb
- 最終バイアル中濃度 : 5ppb
- 農薬 : 関東MIX-22, 31, 34, 48, 51
- 検量線 :
 - ・ PEG共注入標準溶液、絶対、直線検量線
 - ・ 1点 : 5ppb
 - ・ 20ppbフェナントレンd体 + 20ppmPEG + 農薬混合標準溶液 (アセトン-ヘキサン)
 - * フェナントレンd体は装置の感度評価の目安として使用。
- 測定 : 1 Injection によるSCAN測定
- 測定条件 : 参考資料に従う。

① 遠心分離後



② 固相 (C18-30, PLS+PSA)



考察

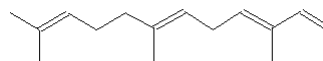
未知検出の影響からか、クレソキシムメチルの回収率がかなり高くなっている。

大きな夾雑ピークは無く、概ね良好な回収率を得ることができた。

未知検体からダイアジノン、クレソキシムメチル、トリフロキシストロピンが検出された。

【夾雑成分】

① a-Farnesene (香気成分)



STQ-KIT
For STQ Method

Sample



Information

水分 : 84.9%
脂質 : 0.1%
脂肪酸 : 0.03%

りんごは花おち、しん及び果梗の基部を除去したものを、フードプロセッサで細切。

AISTI SCIENCE

Product

LVI-S200
Smart-SPE C18-30
Smart-SPE PLS3-10
Smart-SPE PSA-30

株式会社アイスティサイエンス

〒640-8341
和歌山市黒田120-6アソート黒田2F
TEL. 073-475-0033
FAX. 073-497-5011
www.aisti.co.jp

No.	農薬名	回収率(%)	No.	農薬名	回収率(%)	No.	農薬名	回収率(%)	No.	農薬名	回収率(%)
1	1-Naphthylacetamide	ND	76	Cypermethrin-3	98.1	151	Fluthiacet-methyl	106.3	226	Profenofos	108.4
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	122.3	152	Flutolanil	111.6	227	Prohydrojasmon-1	96.8
3	4,4'-Dichlorobenzophenone	105.5	78	Cyproconazole-1	117.5	153	Flutriafol	66.9	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	122.1	154	Fluvalinate-1	103.7	229	Prometryn	110.9
5	Acetamipride	ND	80	DEF(tribufos)	116.1	155	Fluvalinate-2	108.5	230	Propachlor	108.7
6	Acetochlor	105.8	81	Deltamethrin	101.7	156	Formothion	116.1	231	Propanil	106.5
7	Acrinathrin	117.9	82	Demeton-S-methyl	ND	157	Fosthiazate-1	91.1	232	Propaphos	68.4
8	Alachlor	115.1	83	Diallate-1	105.0	158	Fosthiazate-2	93.4	233	Propargite(BPPS)	112.9
9	Allethrin-1,2	St-	84	Diallate-2	108.2	159	Halfenprox	103.3	234	Propazine	104.4
10	Allethrin-3,4	106.5	85	Diazinone	108.0	160	Hexaconazole	107.2	235	Propiconazole-1	112.3
11	Ametryn	109.3	86	Dichlofenthion	103.8	161	Hexazinone	67.6	236	Propiconazole-2	94.2
12	Anilofos	112.7	87	Dichlofluanid	114.8	162	Imazamethabenz methyl	74.4	237	Propoxur	95.6
13	Aramite-3	115.2	88	Dichlorvos	60.7	163	Imibenconazole	91.7	238	Propyzamide	106.3
14	Aramite-4	122.6	89	Diclocymet-1	103.5	164	Imibenconazole-des-benzyl	ND	239	Prothiophos	114.0
15	Atrazine	108.5	90	Diclocymet-2	101.3	165	Iprobenfos	109.0	240	Pyraclofos	108.7
16	Azaconazole	110.0	91	Diclofop-methyl	106.0	166	Iprodione	109.3	241	Pyraflufen-ethyl	98.4
17	Azinphos-Methyl	101.2	92	Dicloran	112.6	167	Isazophos	107.2	242	Pyrazophos	120.8
18	Benalaxyl	114.9	93	Dicrotofos	ND	168	Isofenphos	117.9	243	Pyributicarb	103.8
19	Bendiocarb	112.1	94	Diethofencarb	116.3	169	Isofenphos P=O	116.5	244	Pyridaben	113.8
20	Benfluranlin	112.5	95	Difenoconazole-1	102.9	170	Isoprocabe	87.4	245	Pyridafenthion	97.7
21	Benfuresate	102.7	96	Difenoconazole-2	104.6	171	Isoprothiolane	109.6	246	Pyrifeno-1	96.7
22	Benoxacor	104.0	97	Diflufenican	105.1	172	Isoxathion	104.5	247	Pyrifeno-2	97.8
23	BHC-alpha	104.2	98	Dimepiperate	105.6	173	Isoxathion-ox	131.2	248	Pyrimethanil	104.2
24	BHC-beta	94.9	99	Dimethametryn	112.3	174	Kresoxim-methyl	445.3	249	Pyrimidifen	105.2
25	BHC-gamma	103.9	100	Dimethenamid	111.5	175	Lenacil	85.5	250	Pyriminobac-methyl-1	114.4
26	BHC-delta	114.3	101	Dimethipin	101.0	176	Malathion	121.8	251	Pyriminobac-methyl-2	109.6
27	Bifenox	88.3	102	Dimethoate	40.4	177	Mecarbam	St-	252	Pyriproxyfen	116.3
28	Bifenthrin	110.2	103	Dimethylvinphos-z	111.1	178	Mefenacet	108.0	253	Pyroquilon	49.4
29	Bitertanol-1	92.3	104	Dioxathion	ND	179	Mefenpyr-diethyl	106.1	254	Quinoclamine	74.7
30	Bitertanol-2	76.4	105	Diphenamide	113.7	180	Mepronil	101.4	255	Quinolophos	106.1
31	Bromacil	60.7	106	Disulfoton	ND	181	Metalaxyl	113.3	256	Quinomethionate	94.1
32	Bromobutide	108.5	107	Disulfoton sulfone	125.2	182	Methamidophos	ND	257	Quinoxyfen	105.6
33	Bromofos methyl	107.4	108	Edifenphos	114.7	183	Methidathion	115.6	258	Quintozen	100.3
34	Bromophos-ethyl	98.5	109	Endosulfan	104.6	184	Methiocarb	115.2	259	Resmethrin-1	St-
35	Bromopropylate	106.7	110	Endosulfan II	115.6	185	Methoprene-1	St-	260	Resmethrin-2	99.9
36	Bupimate	105.3	111	Endosulfan sulfate	92.8	186	Methoprene-2	115.7	261	Silafluofen	96.2
37	Buprofezin	108.9	112	EPN	91.6	187	Methoxychlor	112.2	262	Simazin	85.4
38	Butachlor	107.0	113	Epoxiconazole	111.3	188	Metolachlor	109.8	263	Simetryn	106.8
39	Butamifos	119.7	114	EPTC	92.7	189	Metominostrobin-e	114.1	264	Spirodiclofen	105.3
40	Butylate	97.2	115	Esprocarb	111.9	190	Metominostrobin-z	113.0	265	Spiroxamine-1	100.3
41	Cadusafos	113.1	116	Ethalfuralin	112.1	191	Mevinphos	33.1	266	Spiroxamine-2	105.9
42	Cafenstrole	119.7	117	Ethiofencarb	ND	192	Monocrotophos	ND	267	TCMTB	137.8
43	Captafol	St-	118	Ethion	126.4	193	Myclobutanil	110.9	268	Tebuconazole	105.6
44	Captan	117.6	119	Ethofumesate	118.8	194	Napropamide	114.6	269	Tebufenpyrad	106.6
45	Carbaril	121.7	120	Ethoprophos	110.7	195	Nitrothal-isopropyl	95.2	270	Tecnazene	99.2
46	Carbofuran	103.9	121	Etofenprox	110.7	196	Norflurazon	82.9	271	Tefluthrine	102.8
47	Carboxin	35.1	122	Etoazazole	112.6	197	Oryzalin	St-	272	Terbacil	76.6
48	Carfentrazone ethyl	106.4	123	Etrifos	103.9	198	Oxadiazone	106.3	273	Terbufos	65.8
49	Chlorbenside	80.4	124	Fenamidone	106.1	199	Oxadixyl	74.9	274	Terbutryn	111.4
50	Chlorbufam	ND	125	Fenamiphos	86.1	200	Oxyfluorfen	110.0	275	Tetrachlorvinphos	104.0
51	Chlorethoxyphos	105.7	126	Fenarimol	107.6	201	p,p'-DDD	110.1	276	Tetraconazole	108.3
52	Chlorfenapyr	112.2	127	Fenbuconazole	96.2	202	p,p'-DDE	100.3	277	Tetradifon	104.7
53	Chlorfenson	109.4	128	Fenchlorphos	108.2	203	Pacllobutrazol	113.3	278	Thenylchlor	109.4
54	Chlorfenvinphos-1	121.2	129	Fenitrothion	108.8	204	Parathion	109.1	279	Thiobencarb	111.7
55	Chlorfenvinphos-2	108.3	130	Fenobucarb	109.3	205	Parathion-methyl	101.2	280	Thiometon	ND
56	Chlorobenzilate	112.0	131	Fenothiocarb	116.9	206	Penconazole	113.5	281	Tolclofos-methyl	105.2
57	Chloroneb	101.8	132	Fenoxanil	112.4	207	Pendimethalin	109.9	282	Tolfenpyrad	109.5
58	Chlorpropham	100.6	133	Fenpropathrin	112.4	208	Permethrin-cis	109.8	283	Toriadimefon	112.3
59	Chlorpyrifos	115.6	134	Fenpropemorph	103.0	209	Permethrin-trans	110.5	284	Triadimenol-1	107.6
60	Chlorpyrifos-methyl	106.2	135	Fensulfothion	112.1	210	Perthane	114.4	285	Triadimenol-2	83.3
61	Chlorthal-dimethyl	104.4	136	Fenthion	72.4	211	Phenothrin-1	91.7	286	Triallate	94.1
62	Chlozolinate	107.4	137	Fenvalerate-1	110.5	212	Phenothrin-2	116.3	287	Triazophos	116.5
63	Cinidon-ethyl	97.2	138	Fenvalerate-2	107.1	213	Phenthoate	97.3	288	Tricyclazole	ND
64	Clomazone	114.5	139	FIPRONIL	100.3	214	Phorate	69.0	289	Trifloxystrobin	164.6
65	Cyanazine	98.6	140	Flamprop-methyl	101.0	215	Phosalone	121.5	290	Trifluralin	107.7
66	Cyanophos	102.9	141	Fluacrypyrim	111.6	216	Phosmet	128.1	291	Thifluzamide	49.8
67	Cyfluthrin-1	83.8	142	Flucythrinate-1	113.9	217	Phosphamidon	91.9	292	Uniconazole	111.5
68	Cyfluthrin-2	108.4	143	Flucythrinate-2	117.4	218	Phthalide	106.9	293	Vinclozoline	100.9
69	Cyfluthrin-3	115.6	144	Fludioxonil	43.3	219	Picolinafen	110.0	294	XMC	99.4
70	Cyfluthrin-4	106.5	145	Flufenpyl-ethyl	101.7	220	Piperonyl butoxide	108.4	295	Zoxamide	101.6
71	Cyhalofop-butyl	115.7	146	Flumiclorac-pentyl	104.3	221	Piperophos	121.1			
72	Cyhalothrin-1	110.3	147	Flumioxazin	96.0	222	Pirimicarb	76.3			
73	Cyhalothrin-2	101.3	148	Fluquinconazole	107.1	223	Pirimiphos methyl	112.0			
74	Cypermethrin-1	106.9	149	Fluridone	49.6	224	Pretilachlor	115.8			
75	Cypermethrin-2	112.5	150	Flusilazole	116.1	225	Procymidone	101.1			

*PEG共注入標準溶液による絶対検量線を使用 回収率30%未満は ND スタンダードNDは St- 回収率150%以上は