

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030419\
 Data File : VD060919.D
 Acq On : 4 Mar 2019 13:13
 Operator : VA/AP
 Sample : VD0304SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

Quant Time: Mar 05 01:28:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	743802	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	1293208	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	1017592	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	472563	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	353965	57.57	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	115.14%	
35) Dibromofluoromethane	6.96	113	543264	52.40	ug/l	0.04
Spiked Amount				50.000		
			Recovery	=	104.80%	
50) Toluene-d8	10.43	98	1372351	53.20	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	106.40%	
62) 4-Bromofluorobenzene	13.57	95	531126	54.48	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	108.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	175579	21.304	ug/l	100
3) Chloromethane	1.78	50	156959	22.950	ug/l	97
4) Vinyl Chloride	1.87	62	137501	22.253	ug/l	96
5) Bromomethane	2.17	94	18227	16.700	ug/l	95
6) Chloroethane	2.28	64	30757	20.661	ug/l	98
7) Trichlorofluoromethane	2.55	101	151399	20.414	ug/l	95
8) Diethyl Ether	2.90	74	67311	20.576	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.18	101	216420	21.514	ug/l	99
10) Methyl Iodide	3.33	142	252777	20.541	ug/l	98
11) Tert butyl alcohol	4.10	59	47758	104.210	ug/l	99
12) 1,1-Dichloroethene	3.15	96	188275	22.064	ug/l	94
13) Acrolein	3.06	56	64453	101.558	ug/l	100
14) Allyl chloride	3.65	41	312440	22.449	ug/l	99
15) Acrylonitrile	4.23	53	178265	101.589	ug/l	98
16) Acetone	3.24	43	209765	102.172	ug/l	100
17) Carbon Disulfide	3.40	76	610176	20.173	ug/l	100
18) Methyl Acetate	3.67	43	81109	19.294	ug/l	97
19) Methyl tert-butyl Ether	4.27	73	313690	20.900	ug/l	98
20) Methylene Chloride	3.84	84	223348	20.799	ug/l	98
21) trans-1,2-Dichloroethene	4.25	96	202726	21.823	ug/l	98
22) Diisopropyl ether	5.15	45	615878	20.840	ug/l	96
23) Vinyl Acetate	5.09	43	1608343	103.633	ug/l	98
24) 1,1-Dichloroethane	5.02	63	329046	20.877	ug/l	99
25) 2-Butanone	6.10	43	262000	102.873	ug/l	97
26) 2,2-Dichloropropane	6.06	77	243519	20.798	ug/l	98
27) cis-1,2-Dichloroethene	6.07	96	216280	20.534	ug/l	98
28) Bromochloromethane	6.46	49	135648	20.489	ug/l	96
29) Tetrahydrofuran	6.49	42	138418	105.587	ug/l	99
30) Chloroform	6.69	83	330694	21.633	ug/l	98
31) Cyclohexane	6.98	56	301127	22.183	ug/l	97
32) 1,1,1-Trichloroethane	6.90	97	269052	20.554	ug/l	98
36) 1,1-Dichloropropene	7.17	75	261321	21.978	ug/l	98
37) Ethyl Acetate	6.22	43	117151	19.166	ug/l	98
38) Carbon Tetrachloride	7.14	117	274675	21.502	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.89	83	299213	23.021	ug/l	96
40) Benzene	7.49	78	687301	22.698	ug/l	99
41) Methacrylonitrile	6.47	41	142786	37.393	ug/l	98
42) 1,2-Dichloroethane	7.61	62	184260	21.627	ug/l	100
43) Isopropyl Acetate	9.26	43	171200	20.089	ug/l #	96
44) Trichloroethene	8.57	130	223917	21.592	ug/l	97
45) 1,2-Dichloropropane	8.96	63	176682	22.039	ug/l	99
46) Dibromomethane	9.08	93	108671	21.016	ug/l	96
47) Bromodichloromethane	9.40	83	232557	20.618	ug/l	98
48) Methyl methacrylate	9.14	41	95336	19.912	ug/l	96
49) 1,4-Dioxane	9.10	88	21506	429.056	ug/l	92
51) 4-Methyl-2-Pentanone	10.32	43	538512	103.788	ug/l	100
52) Toluene	10.53	92	431610	22.186	ug/l	100
53) t-1,3-Dichloropropene	10.93	75	224682	21.647	ug/l	99
54) cis-1,3-Dichloropropene	10.06	75	285914	22.214	ug/l	99
55) 1,1,2-Trichloroethane	11.21	97	127790	19.863	ug/l	98
56) Ethyl methacrylate	11.06	69	154195	22.608	ug/l	94
57) 1,3-Dichloropropane	11.42	76	203893	21.798	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.88	63	357401	98.119	ug/l	98
59) 2-Hexanone	11.55	43	413302	113.632	ug/l	98
60) Dibromochloromethane	11.70	129	201269	21.691	ug/l	99
61) 1,2-Dibromoethane	11.82	107	153373	20.293	ug/l	98
64) Tetrachloroethene	11.28	164	166553	21.381	ug/l	98
65) Chlorobenzene	12.42	112	458770	20.250	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.53	131	183511	22.572	ug/l	97
67) Ethyl Benzene	12.54	91	752746	22.819	ug/l	99
68) m/p-Xylenes	12.68	106	578309	43.879	ug/l	99
69) o-Xylene	13.06	106	304894	24.627	ug/l	94
70) Styrene	13.09	104	496431	24.034	ug/l	99
71) Bromoform	13.25	173	109072	21.197	ug/l #	98
73) Isopropylbenzene	13.41	105	742621	20.339	ug/l	98
74) N-amyl acetate	13.28	43	218656	20.048	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.71	83	151148	19.961	ug/l	98
76) 1,2,3-Trichloropropane	13.75	75	147579	19.274	ug/l	98
77) Bromobenzene	13.68	156	205617	21.545	ug/l	87
78) n-propylbenzene	13.79	91	871363	20.744	ug/l	98
79) 2-Chlorotoluene	13.86	91	526026	21.927	ug/l	98
80) 1,3,5-Trimethylbenzene	14.25	105	595091	21.492	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.48	75	43475	19.185	ug/l	96
82) 4-Chlorotoluene	13.95	91	553204	21.024	ug/l	92
83) tert-Butylbenzene	14.20	119	738308	23.289	ug/l	93
84) 1,2,4-Trimethylbenzene	14.25	105	595091	21.492	ug/l	97
85) sec-Butylbenzene	14.38	105	771720	20.998	ug/l	97
86) p-Isopropyltoluene	14.51	119	693333	23.161	ug/l	97
87) 1,3-Dichlorobenzene	14.47	146	366137	22.582	ug/l	97
88) 1,4-Dichlorobenzene	14.55	146	373118	23.173	ug/l	96
89) n-Butylbenzene	14.81	91	643821	21.956	ug/l	98
90) Hexachloroethane	15.02	117	177366	20.545	ug/l	81
91) 1,2-Dichlorobenzene	14.82	146	307642	21.900	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.39	75	18070	20.393	ug/l	84

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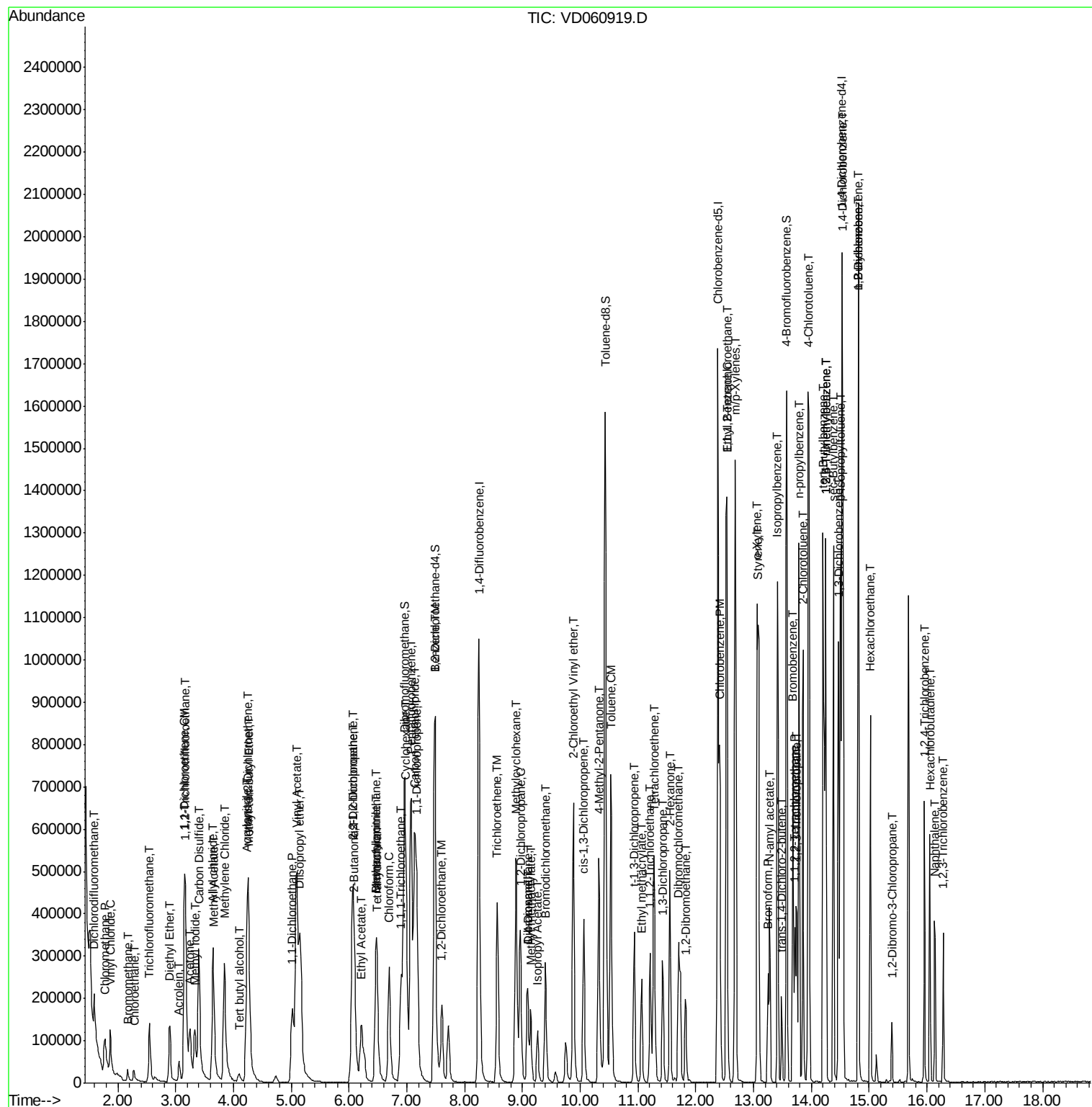
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	168080	20.606	ug/l	97
94) Hexachlorobutadiene	16.05	225	108251	20.676	ug/l	98
95) Naphthalene	16.14	128	266199	20.957	ug/l	98
96) 1,2,3-Trichlorobenzene	16.28	180	87485	19.098	ug/l	94

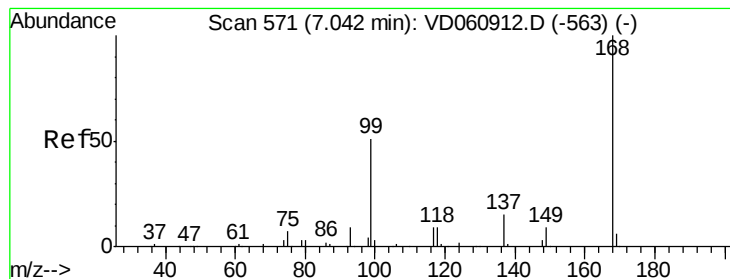
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

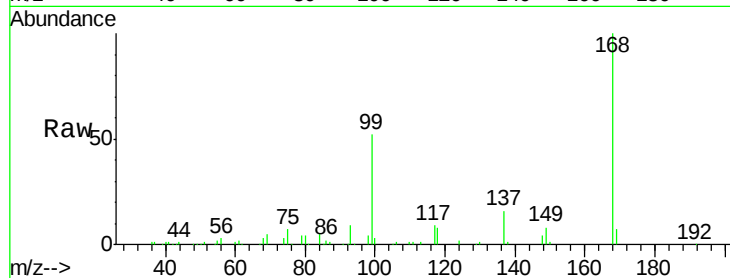
VD0304SBS01

Tot Ion:168 Resp: 743802

Ion Ratio Lower Upper

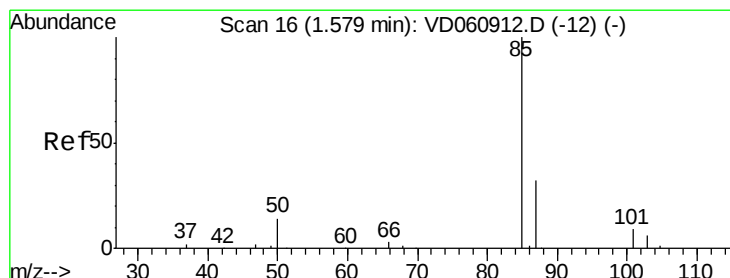
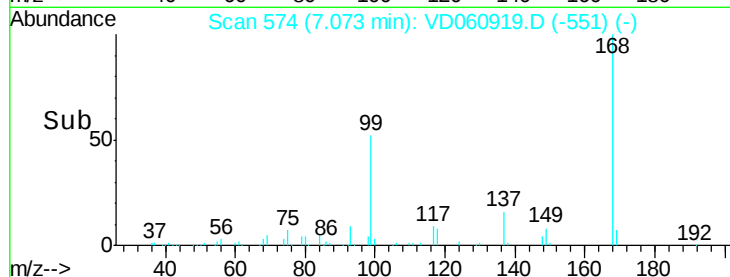
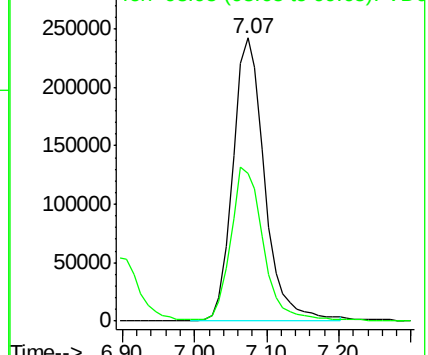
168 100

99 52.2 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 21.304 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.01 min

Lab File: VD060919.D

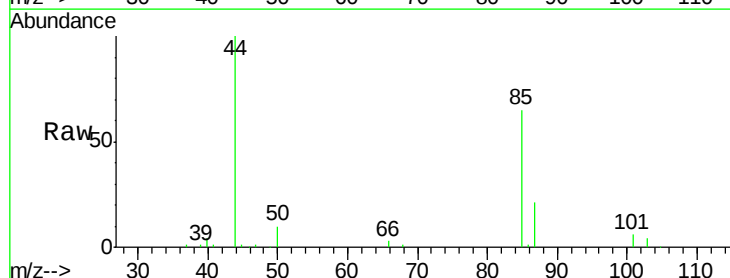
Acq: 4 Mar 2019 13:13

Tgt Ion: 85 Resp: 175579

Ion Ratio Lower Upper

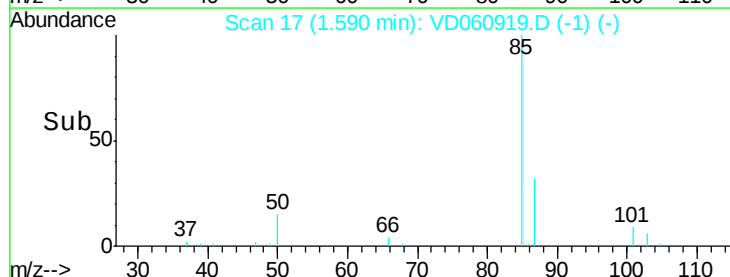
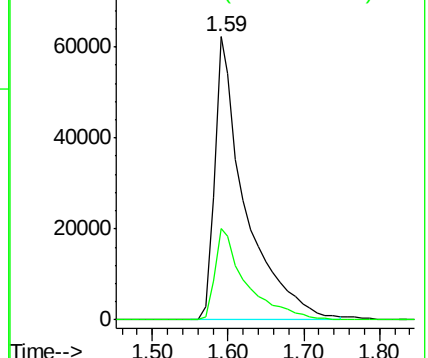
85 100

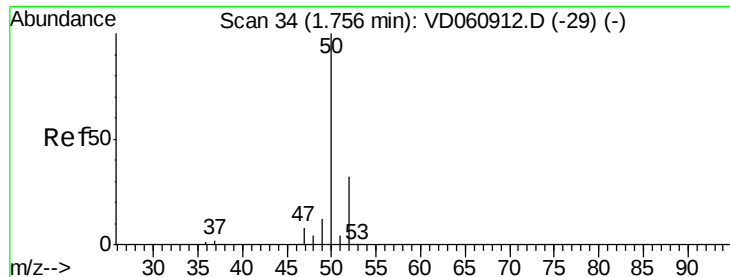
87 32.5 16.3 48.8



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.950 ug/l

RT: 1.78 min Scan# 36

Delta R.T. 0.02 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

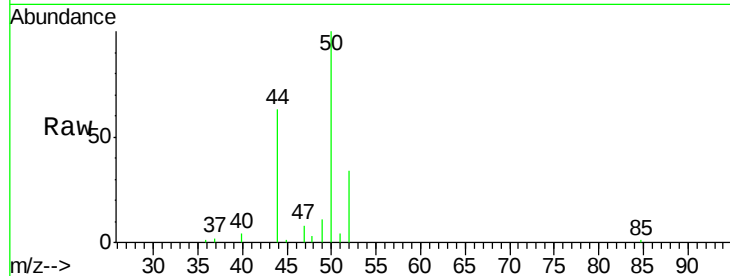
VD0304SBS01

Tot Ion: 50 Resp: 156959

Ion Ratio Lower Upper

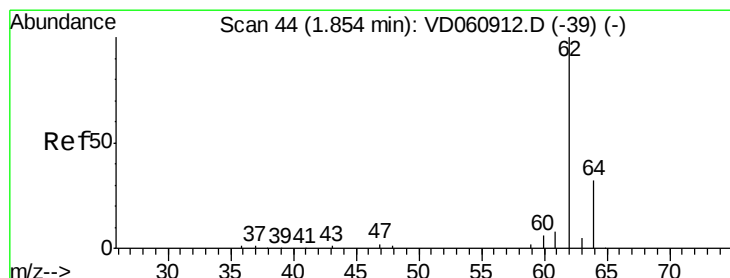
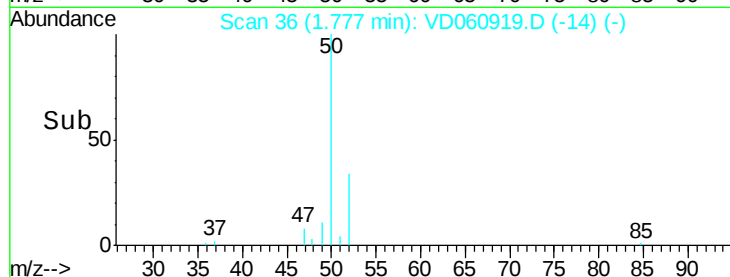
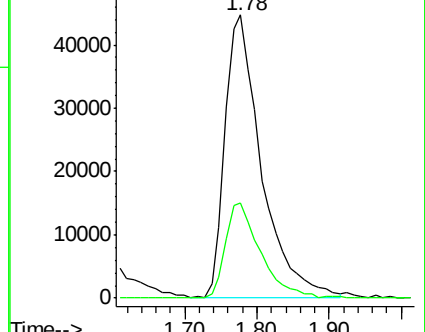
50 100

52 33.8 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 22.253 ug/l

RT: 1.87 min Scan# 45

Delta R.T. 0.01 min

Lab File: VD060919.D

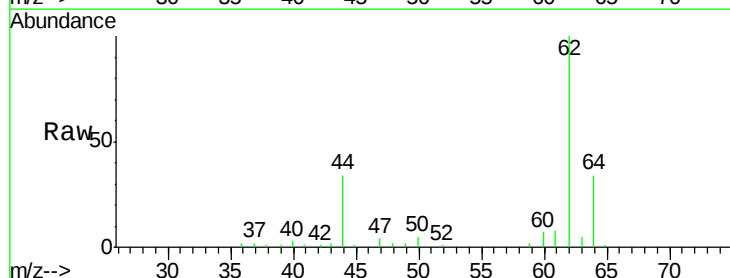
Acq: 4 Mar 2019 13:13

Tgt Ion: 62 Resp: 137501

Ion Ratio Lower Upper

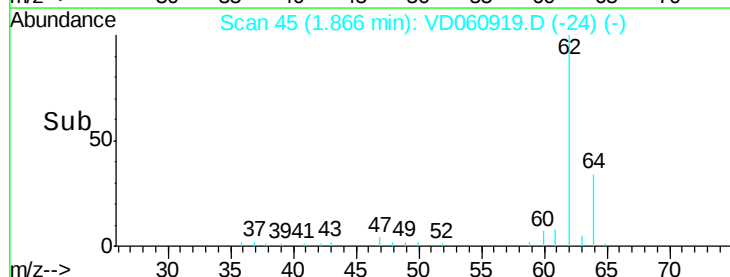
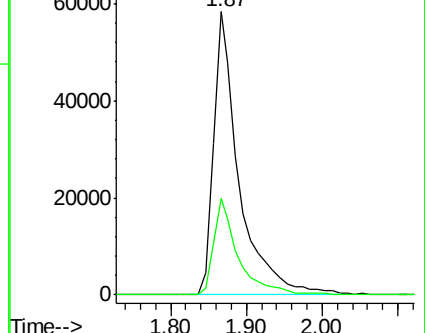
62 100

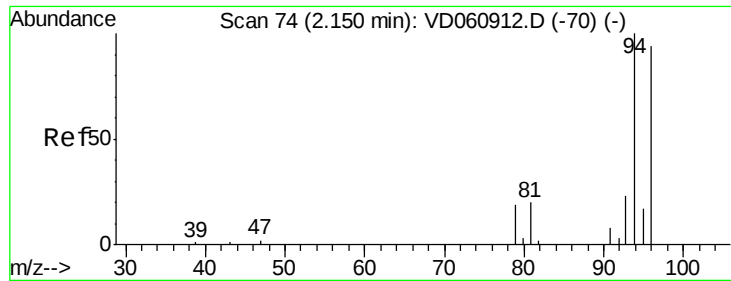
64 34.3 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

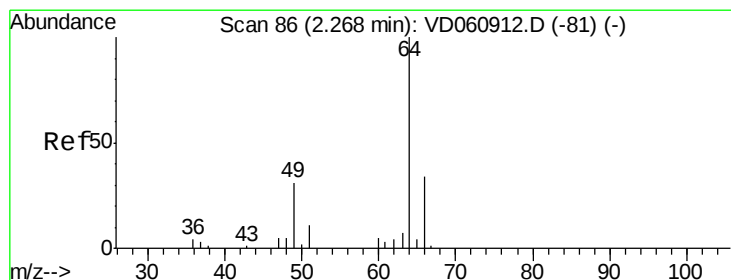
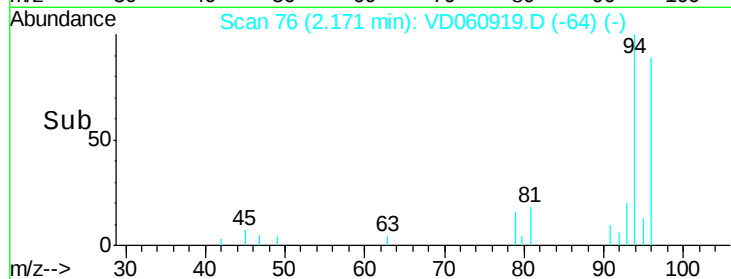
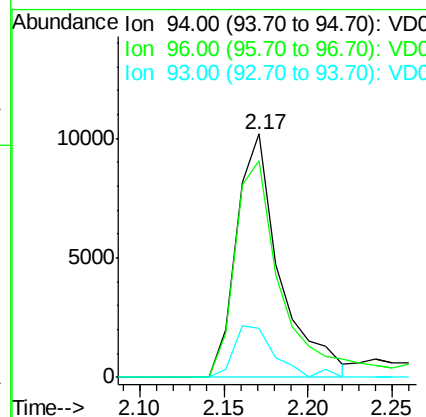
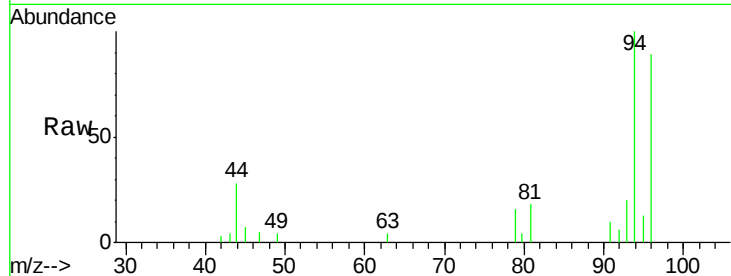




#5
 Bromomethane
 Concen: 16.700 ug/l
 RT: 2.17 min Scan# 76
 Delta R.T. 0.02 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

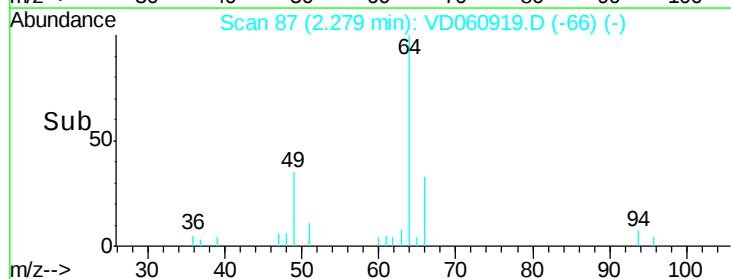
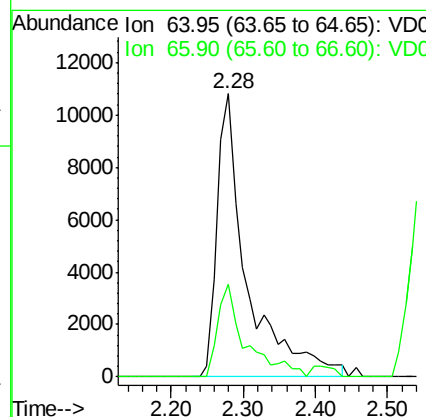
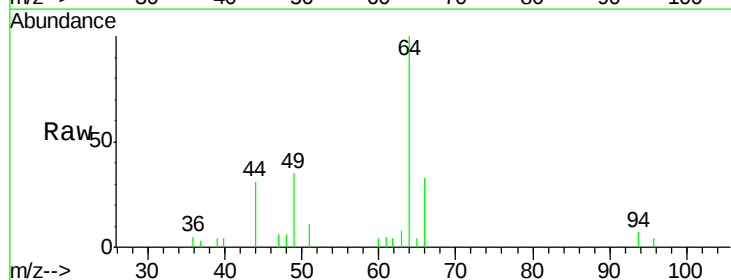
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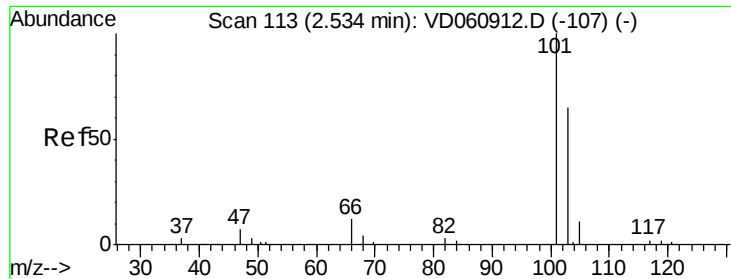
Tot Ion: 94 Resp: 18227
 Ion Ratio Lower Upper
 94 100
 96 89.0 75.1 112.7
 93 20.1 18.6 28.0



#6
 Chloroethane
 Concen: 20.661 ug/l
 RT: 2.28 min Scan# 87
 Delta R.T. 0.01 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 64 Resp: 30757
 Ion Ratio Lower Upper
 64 100
 66 32.7 27.0 40.6



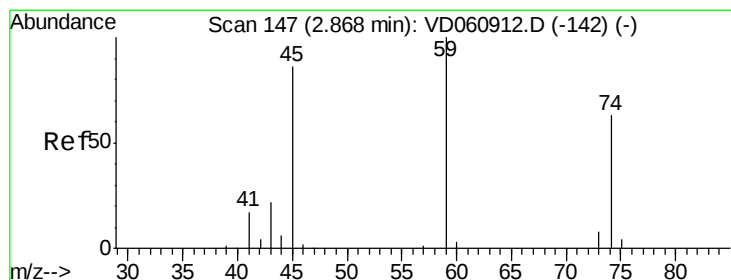
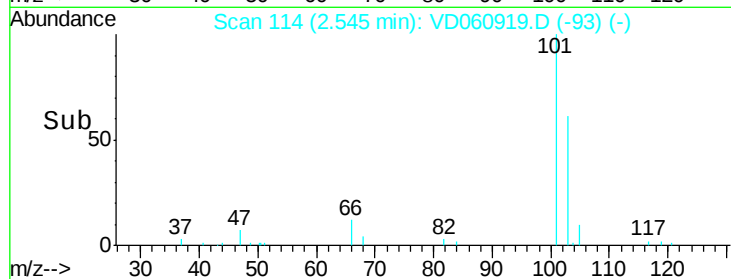
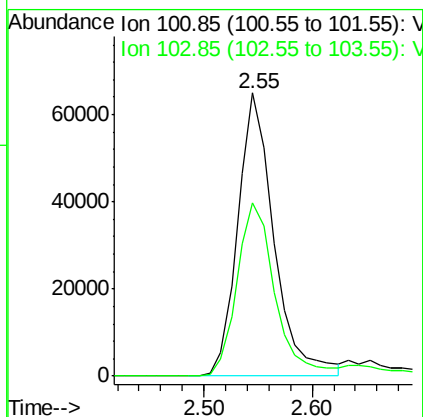
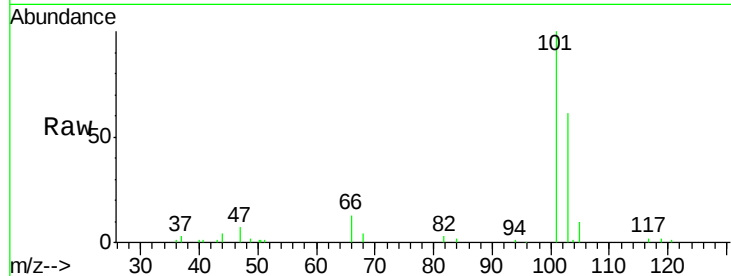


#7

Trichlorofluoromethane
 Concen: 20.414 ug/l
 RT: 2.55 min Scan# 114
 Delta R.T. 0.01 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

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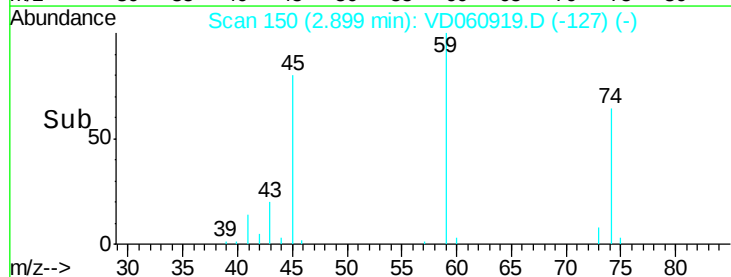
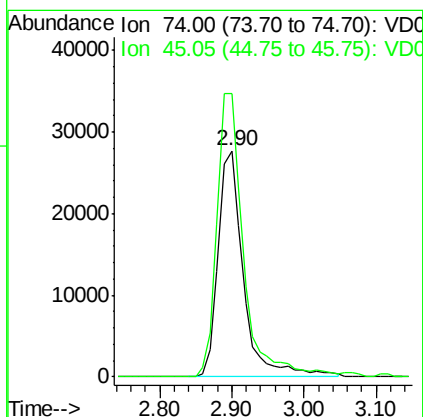
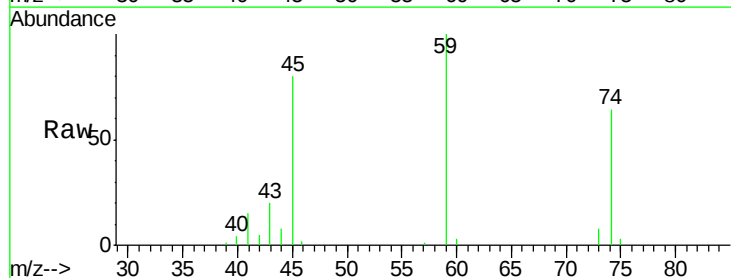
Tot Ion:101 Resp: 151399
 Ion Ratio Lower Upper
 101 100
 103 61.2 52.4 78.6

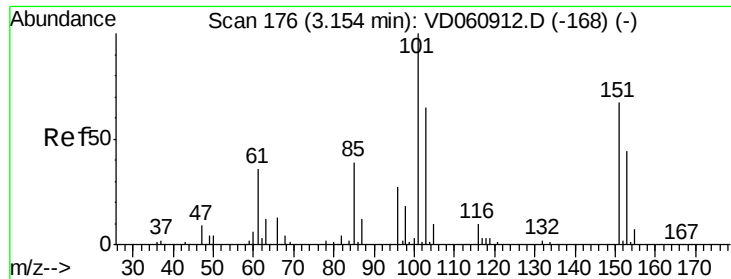


#8

Diethyl Ether
 Concen: 20.576 ug/l
 RT: 2.90 min Scan# 150
 Delta R.T. 0.03 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 74 Resp: 67311
 Ion Ratio Lower Upper
 74 100
 45 124.9 68.8 206.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.514 ug/l

RT: 3.18 min Scan# 178

Delta R.T. 0.02 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

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MSVOA_D

ClientSampleId :

VD0304SBS01

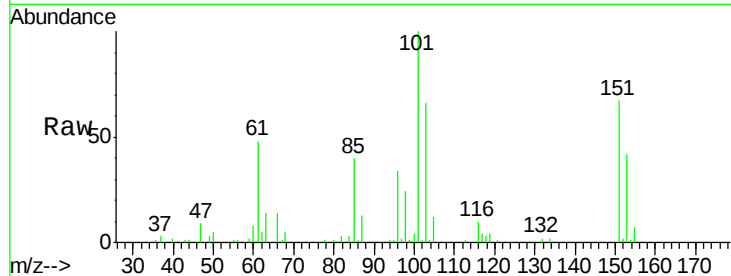
Tot Ion:101 Resp: 216420

Ion Ratio Lower Upper

101 100

85 39.9 31.0 46.6

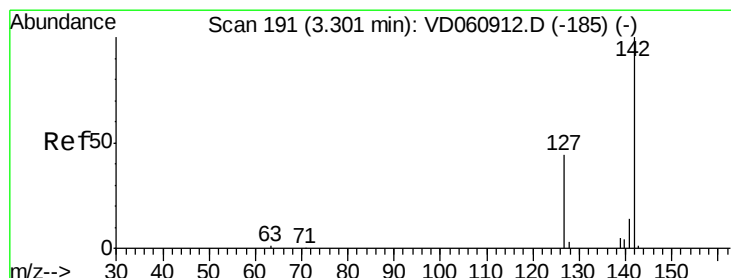
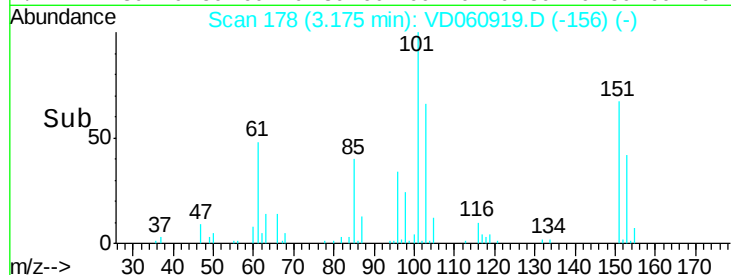
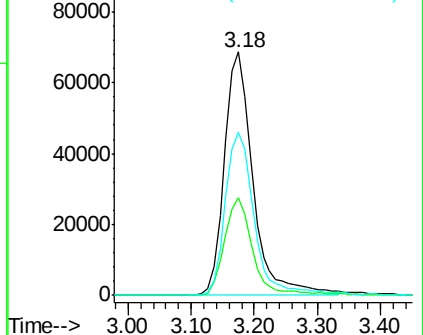
151 67.1 53.8 80.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 20.541 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

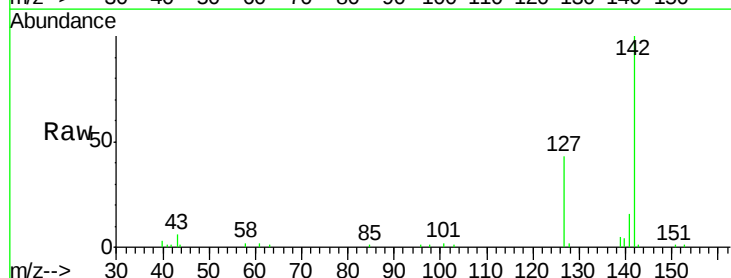
Tgt Ion:142 Resp: 252777

Ion Ratio Lower Upper

142 100

127 43.5 35.0 52.6

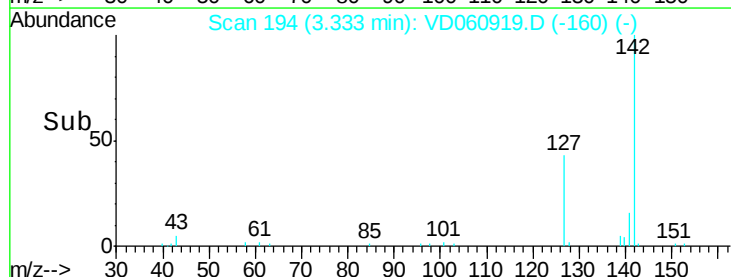
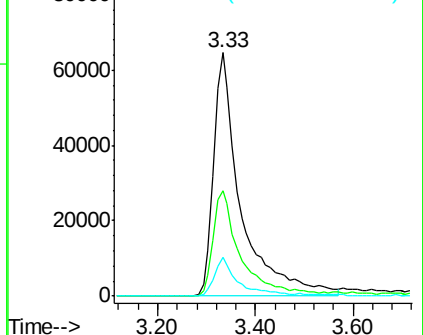
141 15.8 11.0 16.4

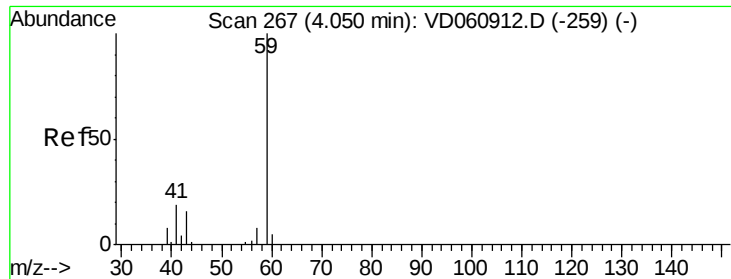


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

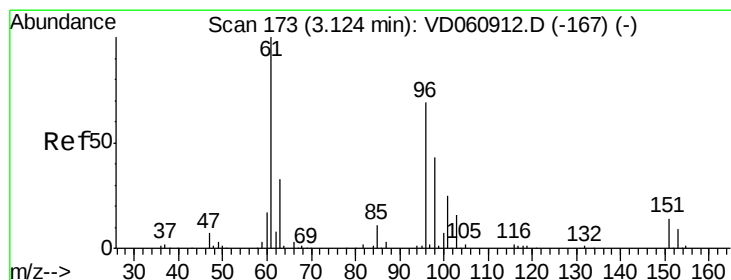
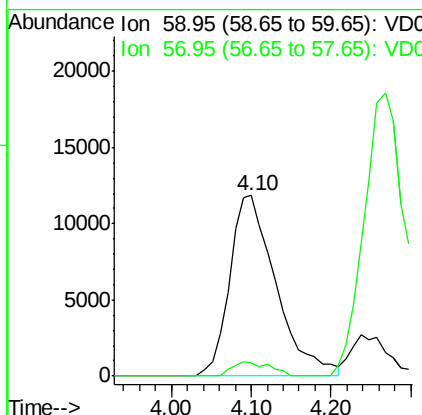
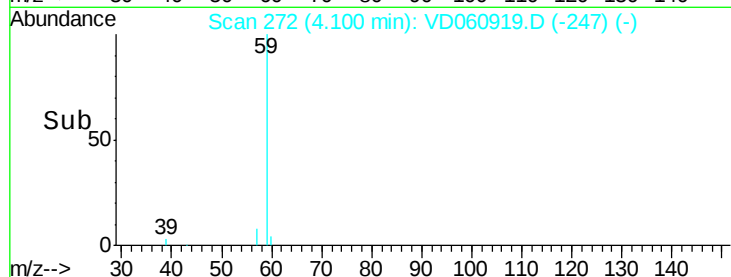
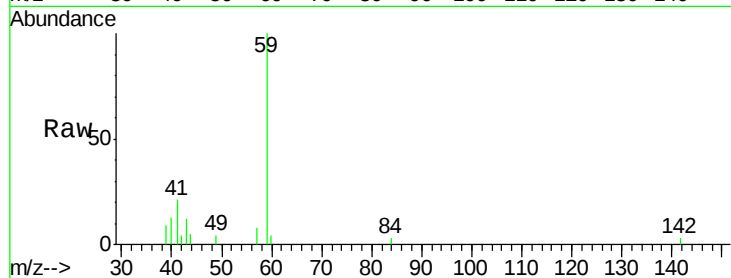




#11
Tert butyl alcohol
Concen: 104.210 ug/l
RT: 4.10 min Scan# 272
Delta R.T. 0.05 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

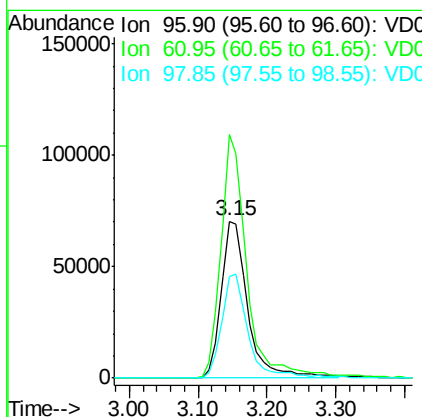
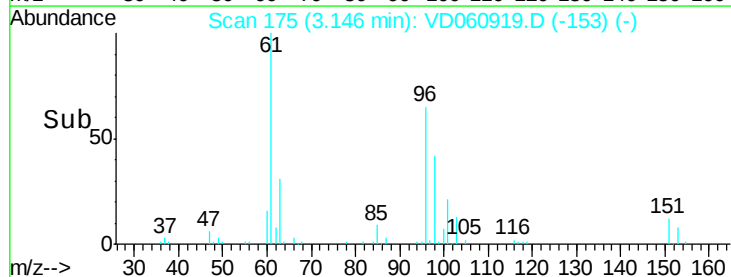
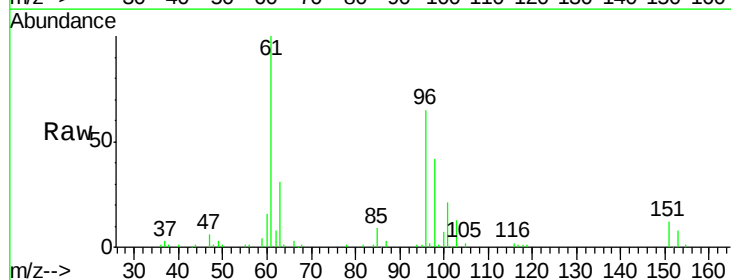
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

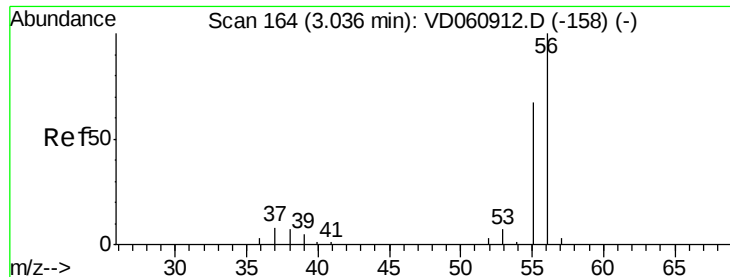
Tot Ion: 59 Resp: 47758
Ion Ratio Lower Upper
59 100
57 7.7 6.5 9.7



#12
1,1-Dichloroethene
Concen: 22.064 ug/l
RT: 3.15 min Scan# 175
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 96 Resp: 188275
Ion Ratio Lower Upper
96 100
61 155.0 116.4 174.6
98 64.5 50.5 75.7





#13

Acrolein

Concen: 101.558 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.02 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

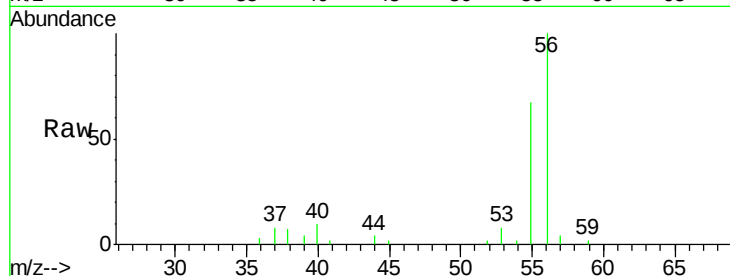
VD0304SBS01

Tot Ion: 56 Resp: 64453

Ion Ratio Lower Upper

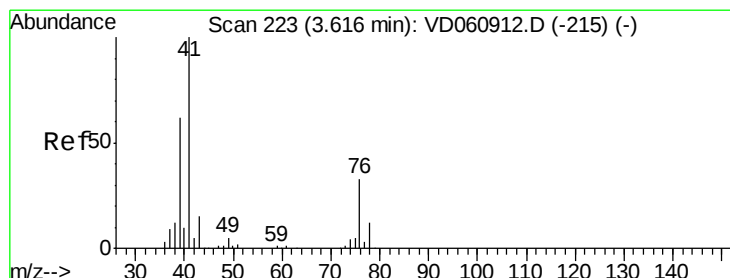
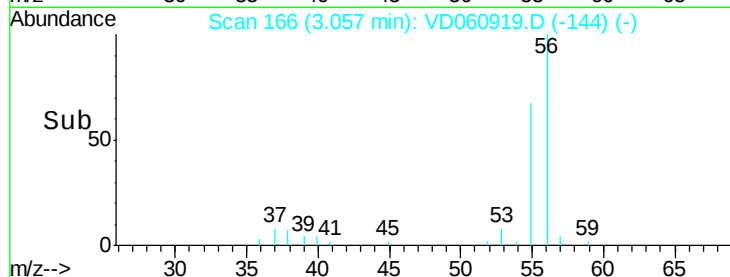
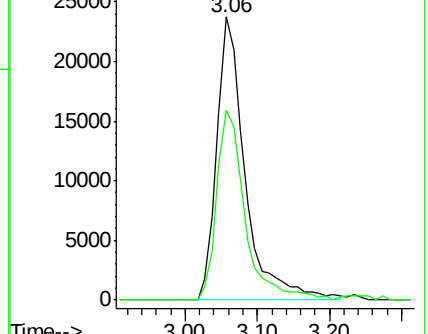
56 100

55 67.2 53.5 80.3



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.449 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

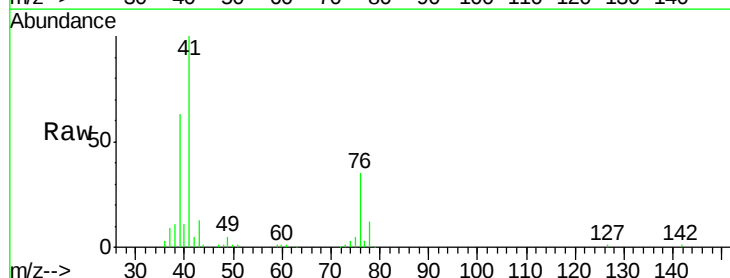
Tgt Ion: 41 Resp: 312440

Ion Ratio Lower Upper

41 100

39 62.9 49.9 74.9

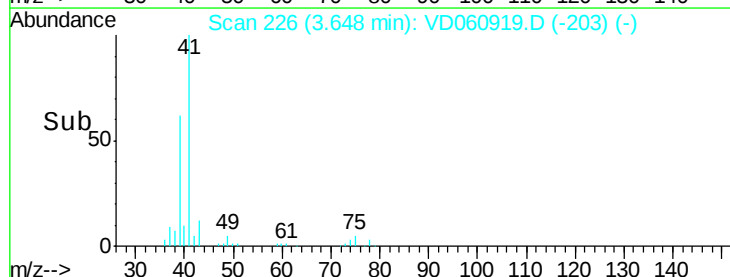
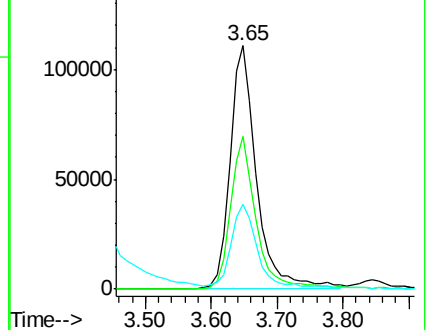
76 34.9 28.6 42.8

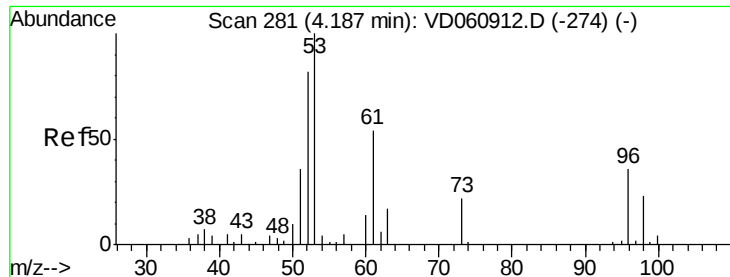


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 101.589 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.04 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

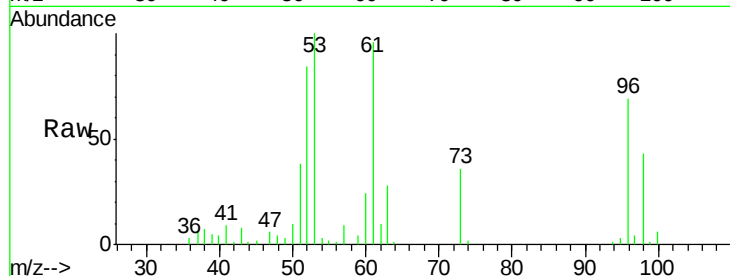
Tot Ion: 53 Resp: 178265

Ion Ratio Lower Upper

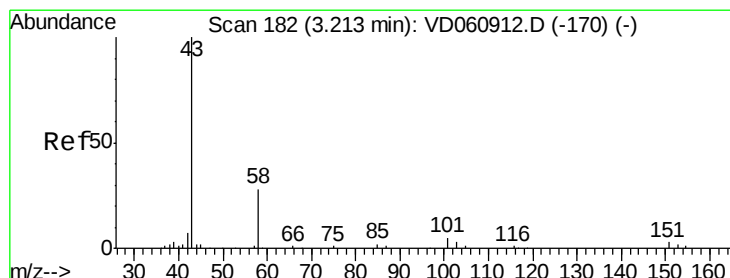
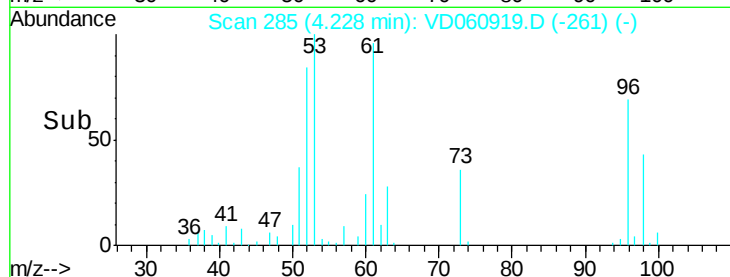
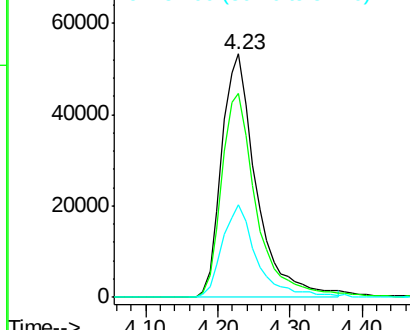
53 100

52 83.9 65.8 98.6

51 38.0 28.9 43.3



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 102.172 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.03 min

Lab File: VD060919.D

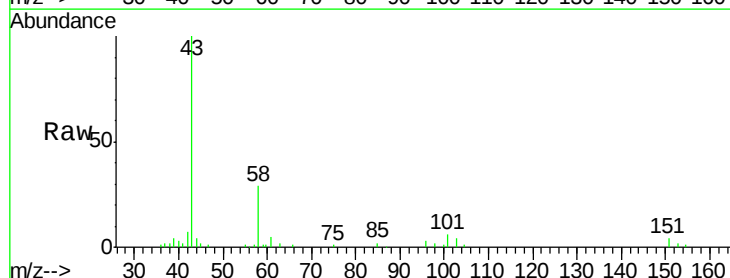
Acq: 4 Mar 2019 13:13

Tgt Ion: 43 Resp: 209765

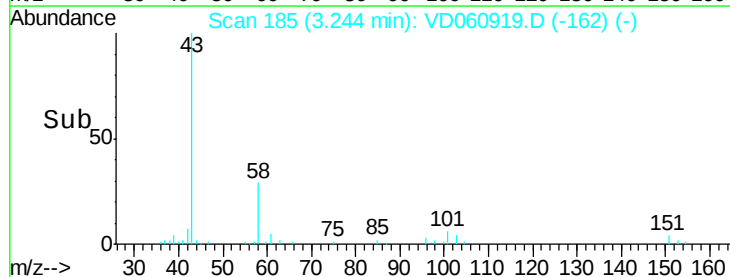
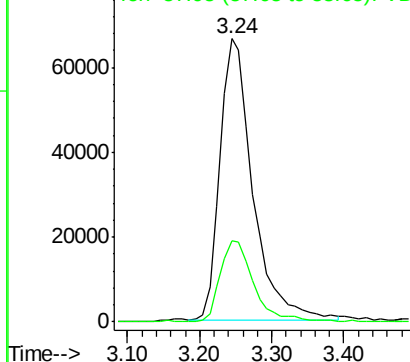
Ion Ratio Lower Upper

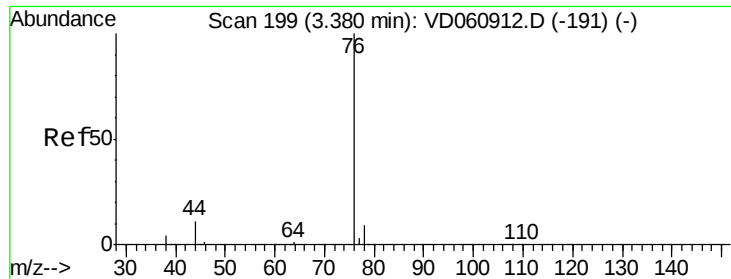
43 100

58 28.6 22.8 34.2



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

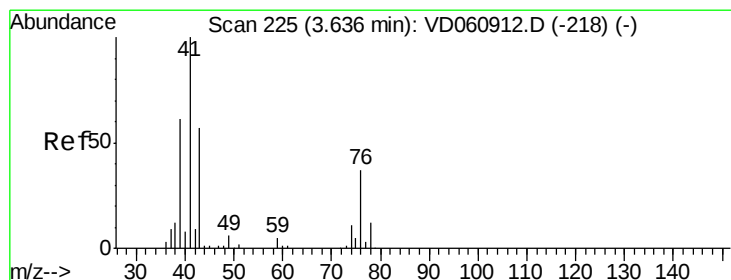
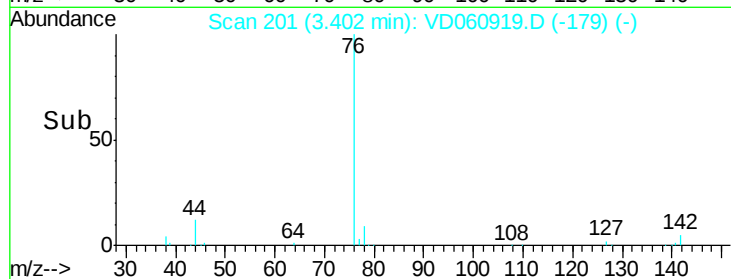
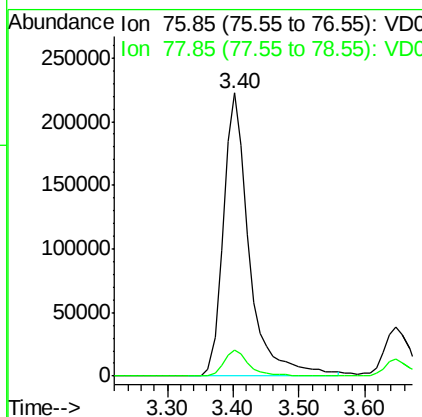
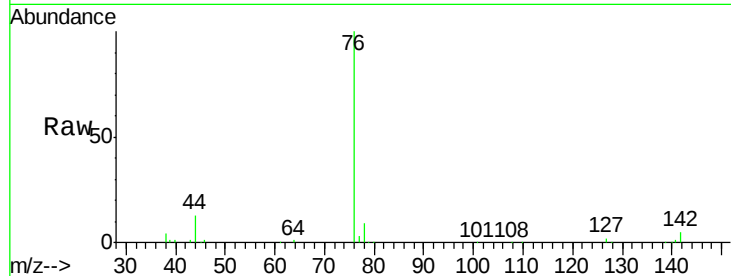




#17
Carbon Disulfide
Concen: 20.173 ug/l
RT: 3.40 min Scan# 201
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

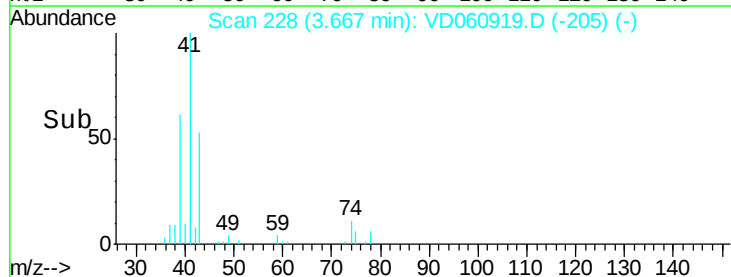
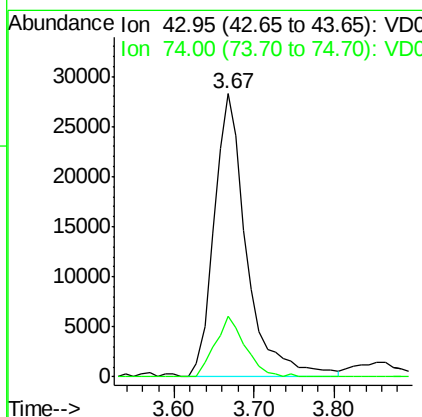
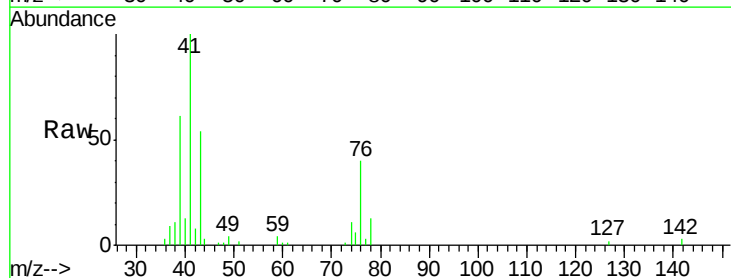
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

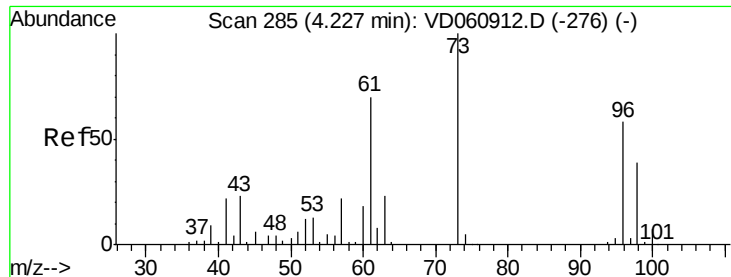
Tot Ion: 76 Resp: 610176
Ion Ratio Lower Upper
76 100
78 9.3 7.4 11.0



#18
Methyl Acetate
Concen: 19.294 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 43 Resp: 81109
Ion Ratio Lower Upper
43 100
74 21.3 16.1 24.1

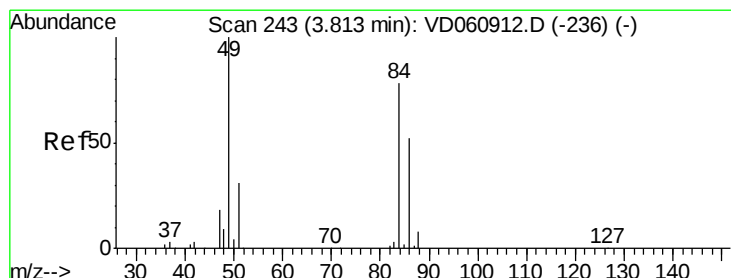
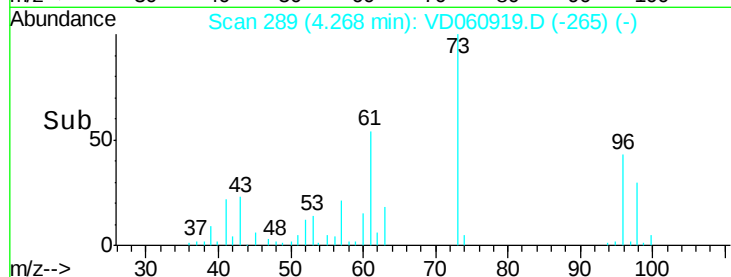
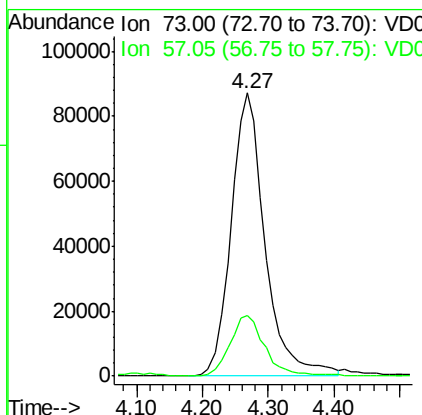
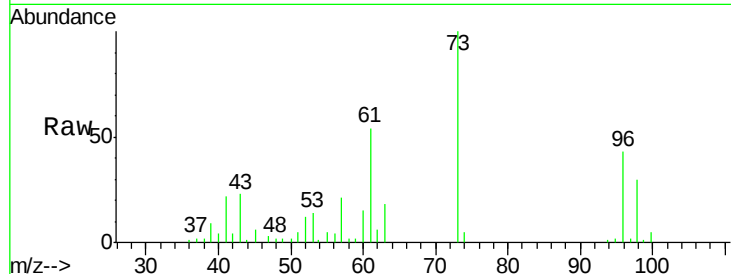




#19
Methvl tert-butvl Ether
Concen: 20.900 ug/l
RT: 4.27 min Scan# 289
Delta R.T. 0.04 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

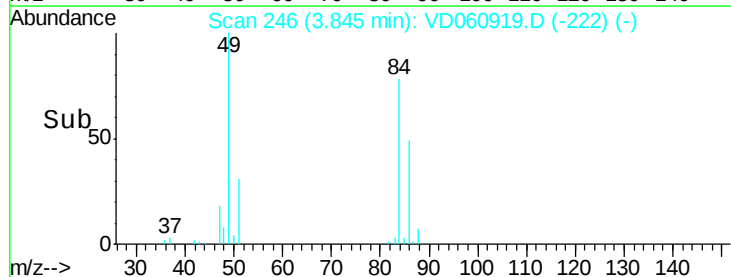
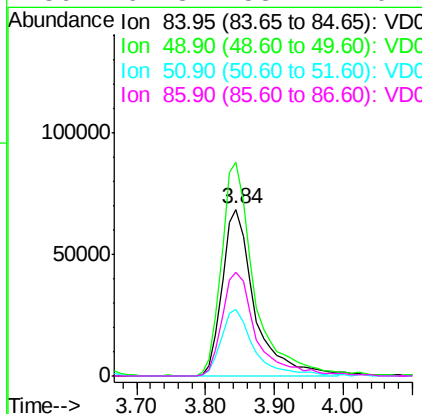
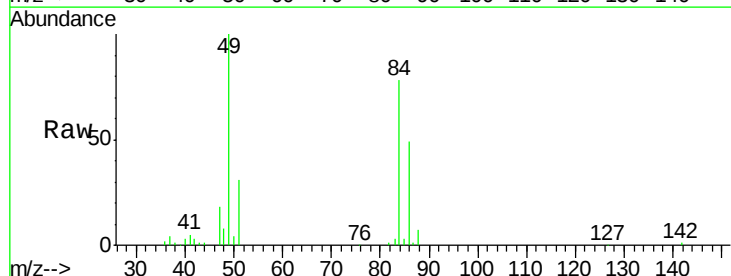
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

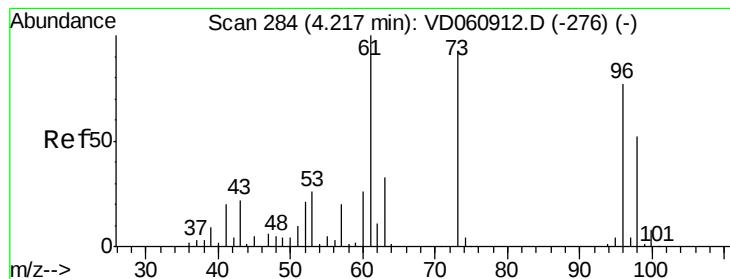
Tot Ion: 73 Resp: 313690
Ion Ratio Lower Upper
73 100
57 21.3 17.8 26.6



#20
Methylene Chloride
Concen: 20.799 ug/l
RT: 3.84 min Scan# 246
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 84 Resp: 223348
Ion Ratio Lower Upper
84 100
49 128.3 102.4 153.6
51 40.2 31.9 47.9
86 62.3 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 21.823 ug/l

RT: 4.25 min Scan# 287

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

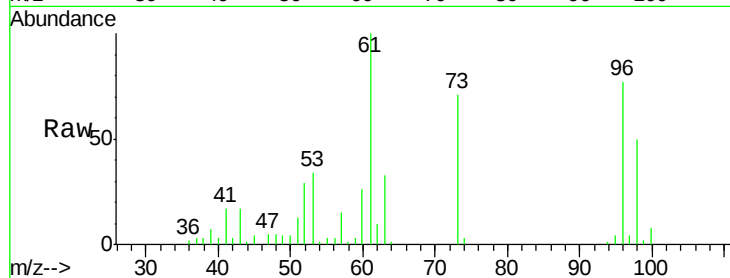
Tot Ion: 96 Resp: 202726

Ion Ratio Lower Upper

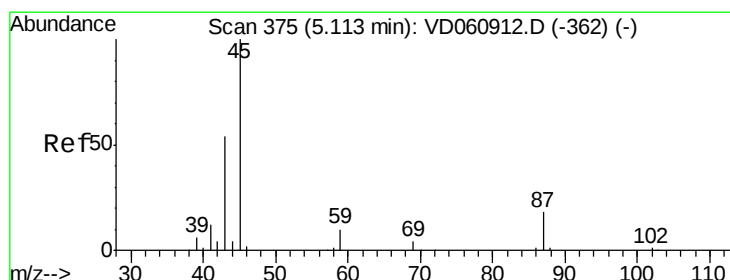
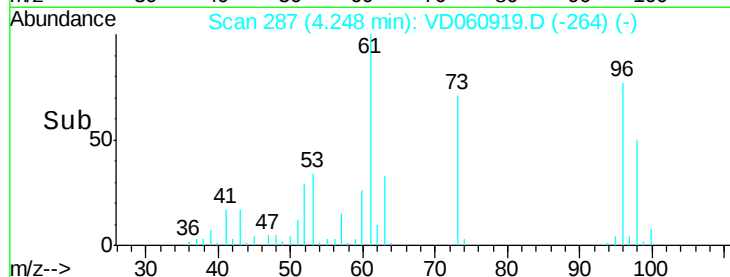
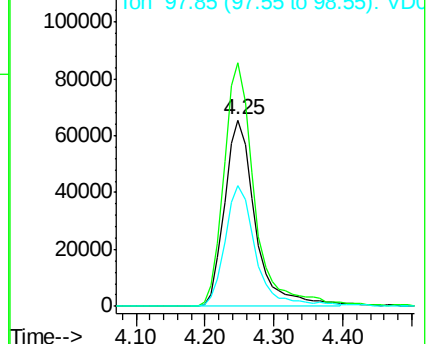
96 100

61 130.5 103.4 155.2

98 64.7 53.6 80.4



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 20.840 ug/l

RT: 5.15 min Scan# 379

Delta R.T. 0.04 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Tgt Ion: 45 Resp: 615878

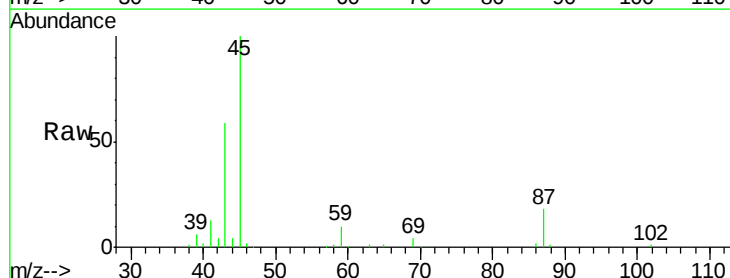
Ion Ratio Lower Upper

45 100

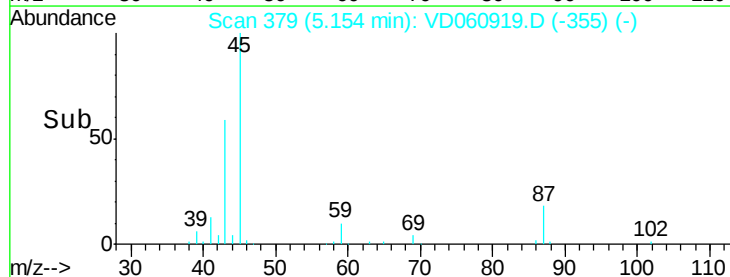
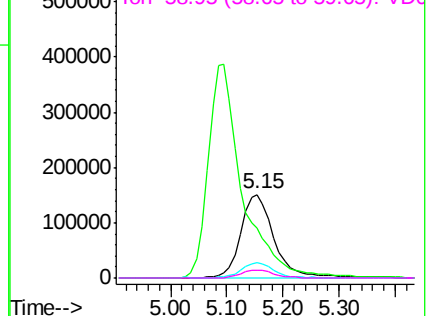
43 59.4 44.4 66.6

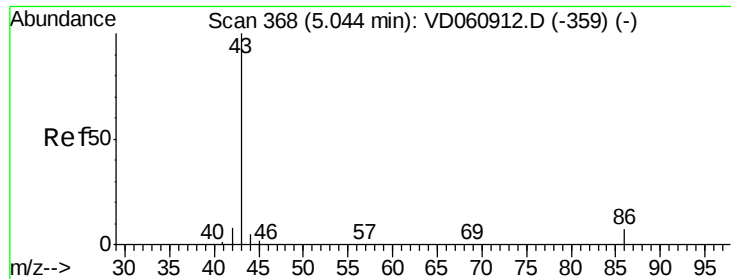
87 18.5 14.7 22.1

59 9.7 7.9 11.9



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC

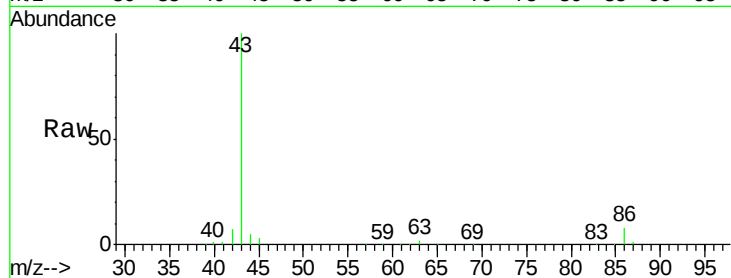




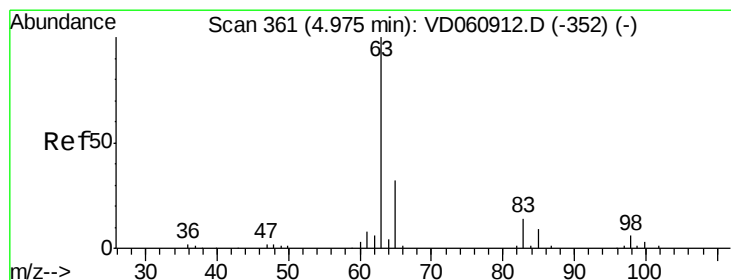
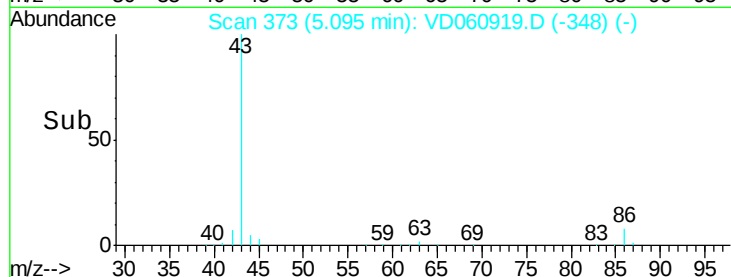
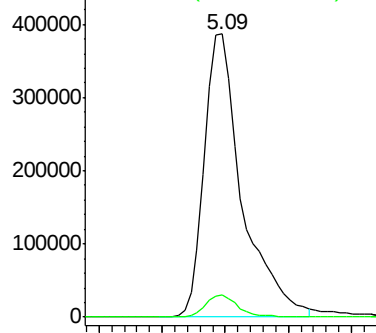
#23
 Vinyl Acetate
 Concen: 103.633 ug/l
 RT: 5.09 min Scan# 373
 Delta R.T. 0.05 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

Tot Ion: 43 Resp: 1608343
 Ion Ratio Lower Upper
 43 100
 86 8.1 5.8 8.8

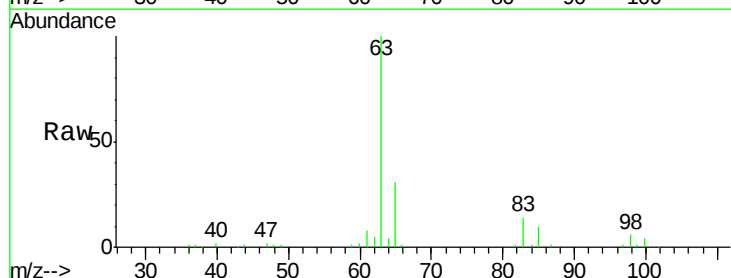


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 86.00 (85.70 to 86.70): VDC

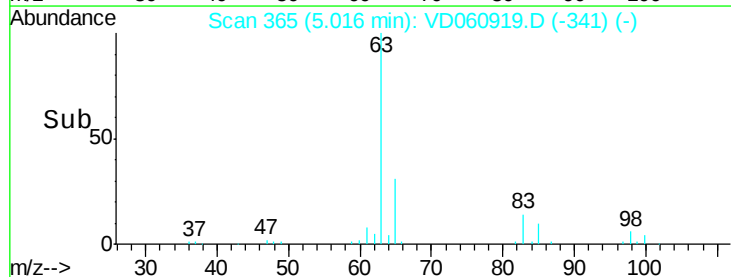
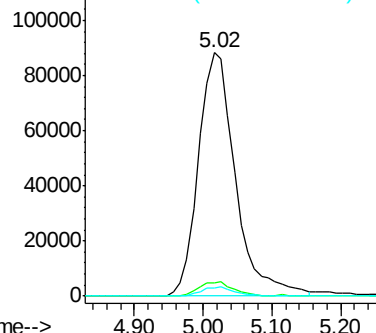


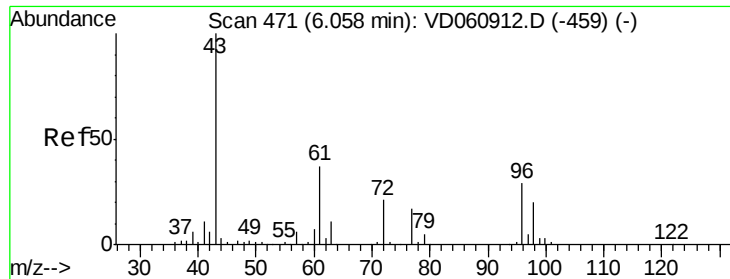
#24
 1,1-Dichloroethane
 Concen: 20.877 ug/l
 RT: 5.02 min Scan# 365
 Delta R.T. 0.04 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 63 Resp: 329046
 Ion Ratio Lower Upper
 63 100
 98 5.5 2.9 8.8
 100 3.6 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 97.95 (97.65 to 98.65): VDC
 Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 102.873 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.04 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

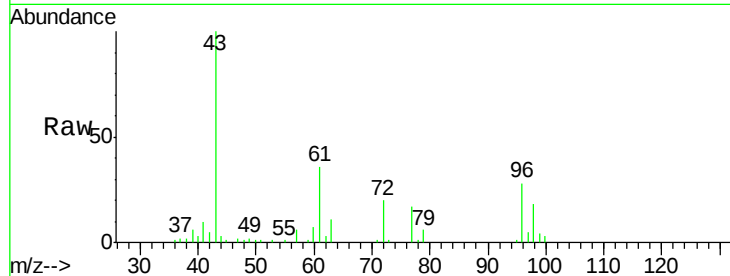
VD0304SBS01

Tot Ion: 43 Resp: 262000

Ion Ratio Lower Upper

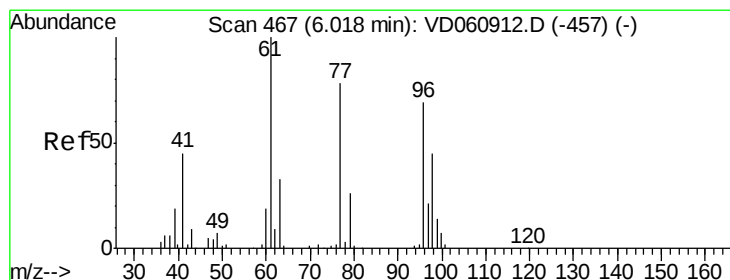
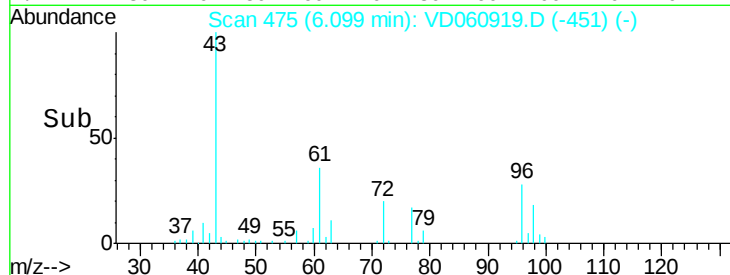
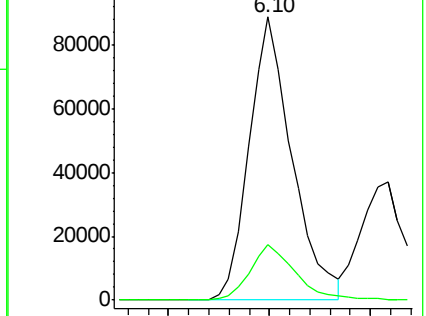
43 100

72 19.7 17.0 25.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.798 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.04 min

Lab File: VD060919.D

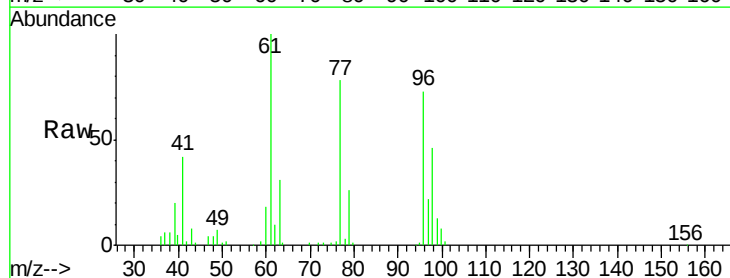
Acq: 4 Mar 2019 13:13

Tgt Ion: 77 Resp: 243519

Ion Ratio Lower Upper

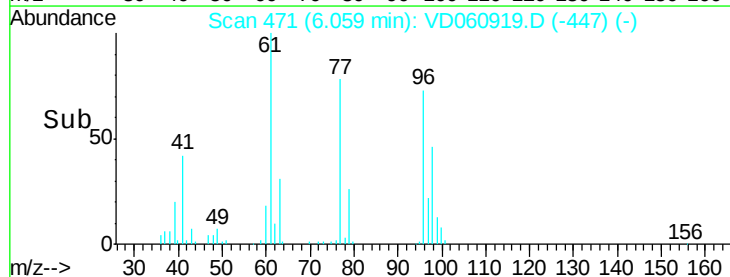
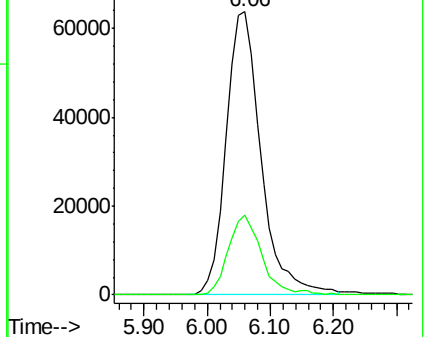
77 100

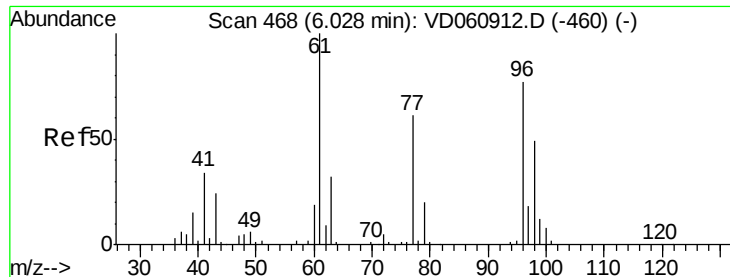
97 28.0 13.5 40.4



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



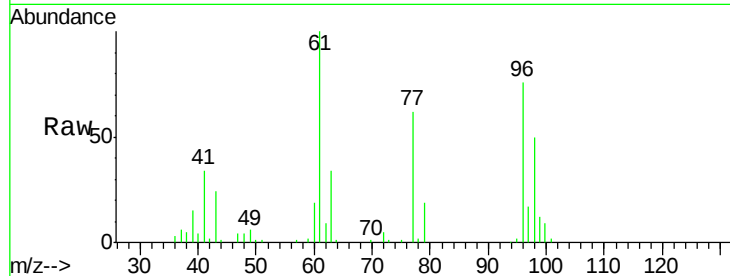


#27

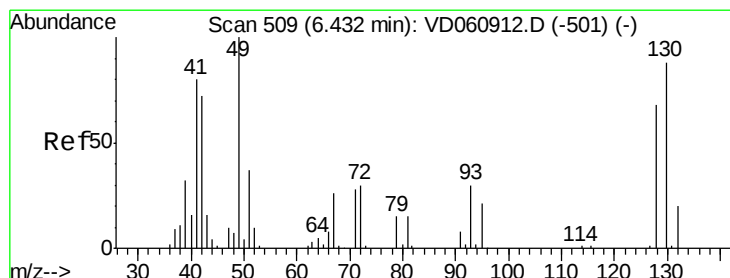
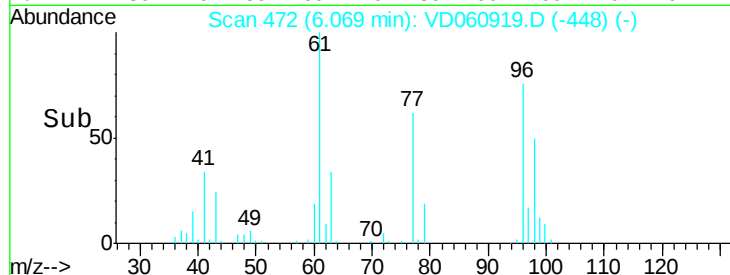
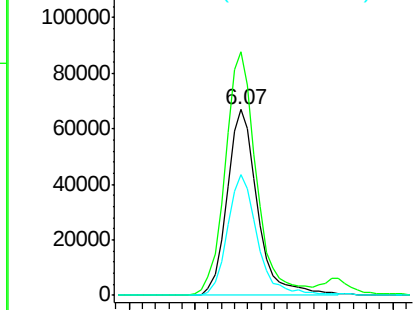
cis-1,2-Dichloroethene
 Concen: 20.534 ug/l
 RT: 6.07 min Scan# 472
 Delta R.T. 0.04 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

Tot Ion: 96 Resp: 216280
 Ion Ratio Lower Upper
 96 100
 61 131.1 0.0 258.8
 98 64.9 0.0 126.4



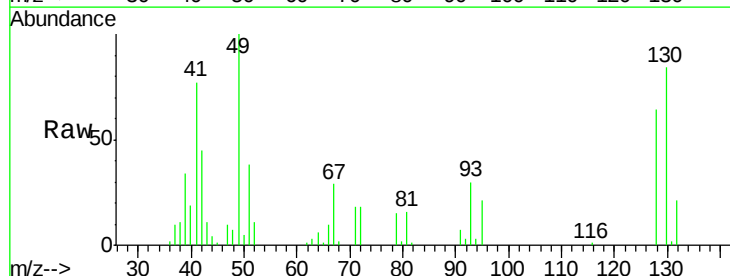
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



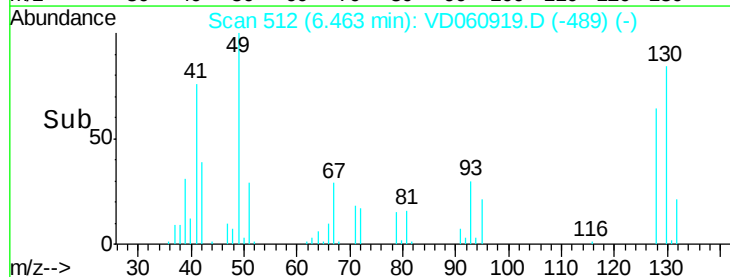
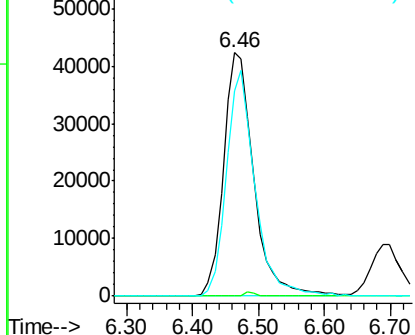
#28

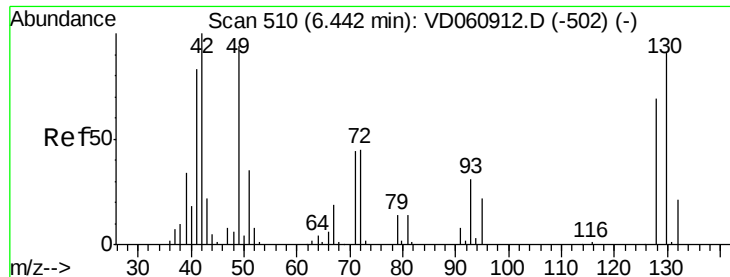
Bromochloromethane
 Concen: 20.489 ug/l
 RT: 6.46 min Scan# 512
 Delta R.T. 0.03 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 49 Resp: 135648
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 0.0
 130 84.1 70.4 105.6



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC

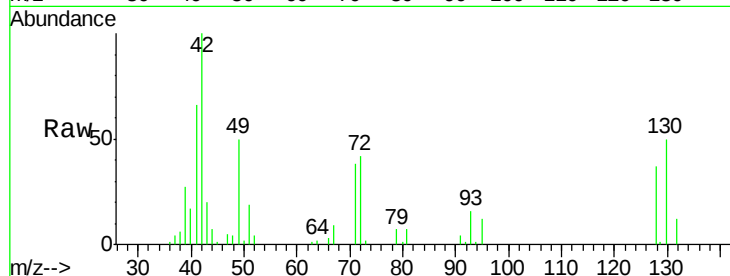




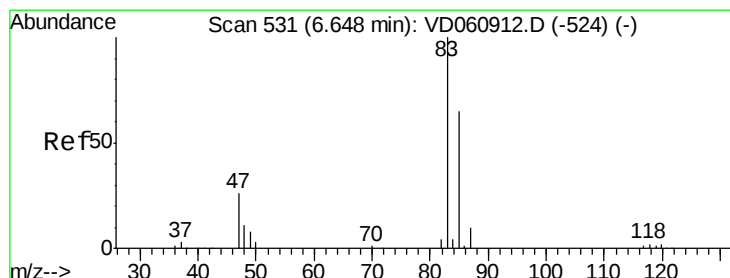
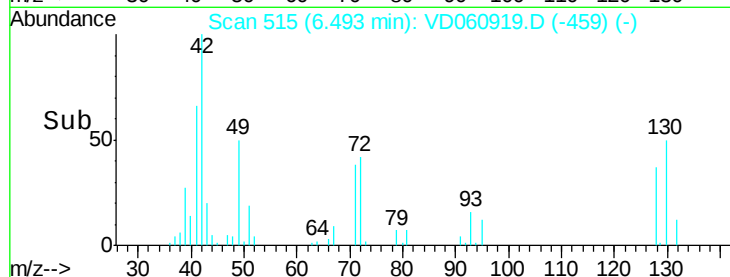
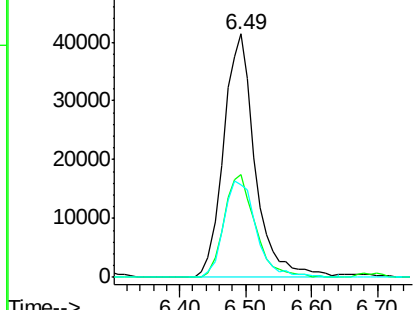
#29
Tetrahydrofuran
Concen: 105.587 ug/l
RT: 6.49 min Scan# 515
Delta R.T. 0.05 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion: 42 Resp: 138418
Ion Ratio Lower Upper
42 100
72 42.0 33.8 50.6
71 41.0 33.5 50.3

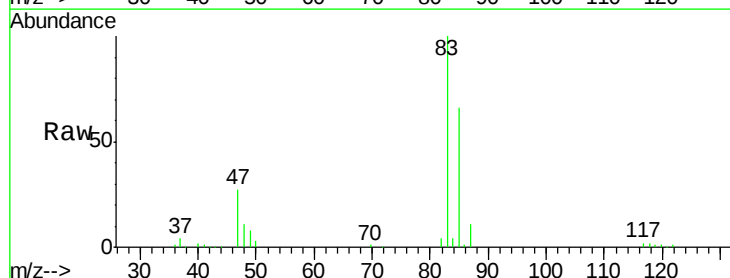


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

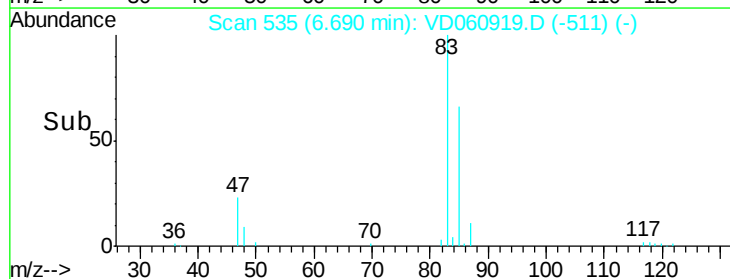
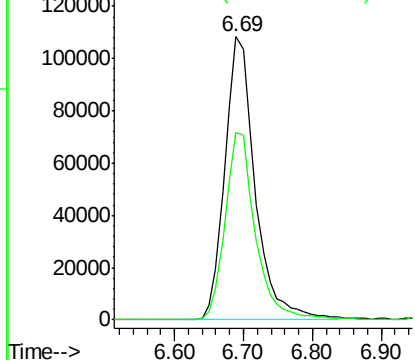


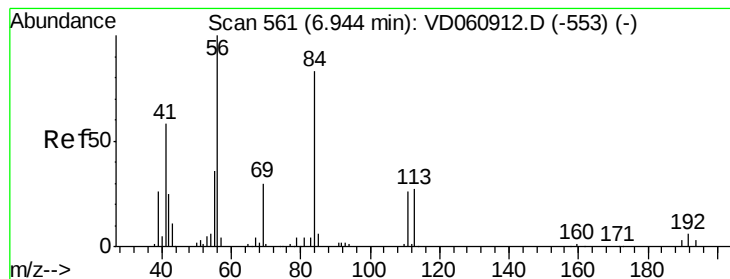
#30
Chloroform
Concen: 21.633 ug/l
RT: 6.69 min Scan# 535
Delta R.T. 0.04 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 83 Resp: 330694
Ion Ratio Lower Upper
83 100
85 66.2 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 22.183 ug/l

RT: 6.98 min Scan# 565

Delta R.T. 0.04 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

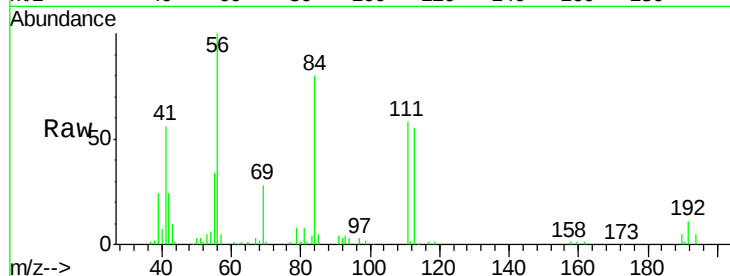
Tot Ion: 56 Resp: 301127

Ion Ratio Lower Upper

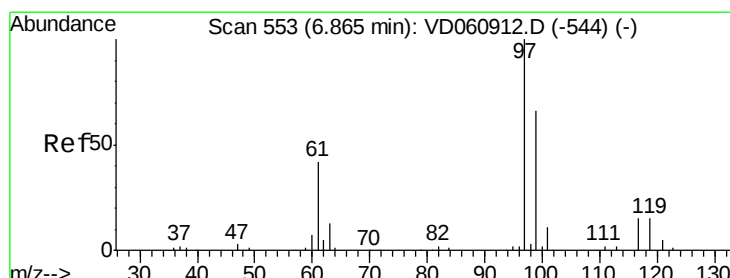
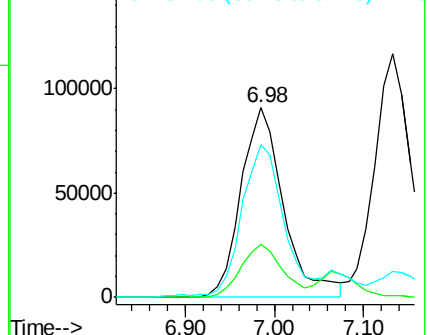
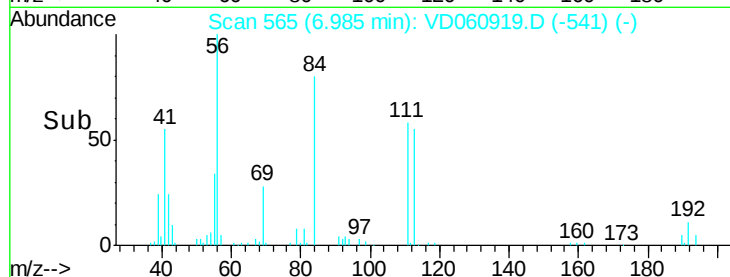
56 100

69 28.1 23.6 35.4

84 80.5 66.5 99.7



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 20.554 ug/l

RT: 6.90 min Scan# 556

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

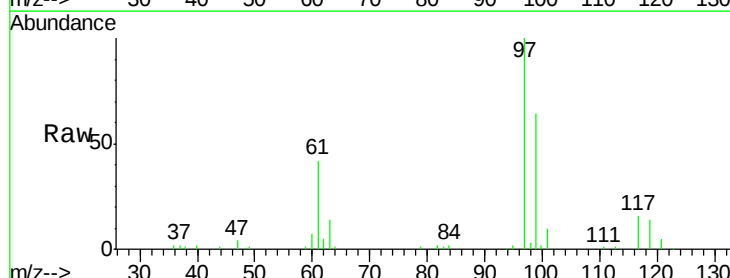
Tgt Ion: 97 Resp: 269052

Ion Ratio Lower Upper

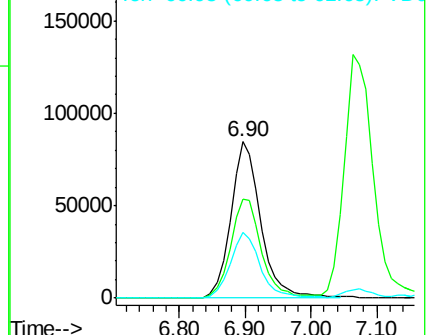
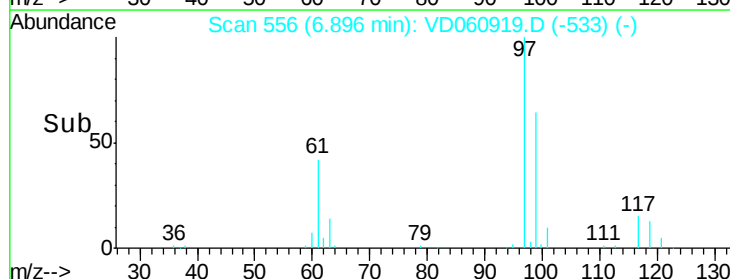
97 100

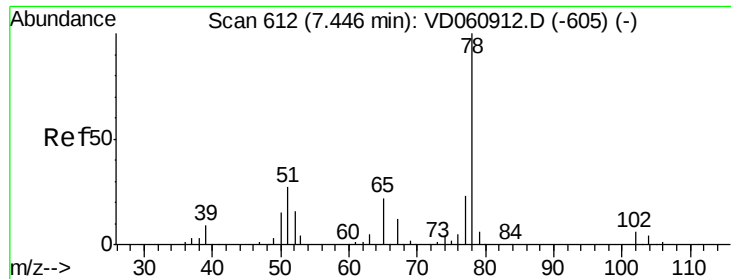
99 63.7 52.8 79.2

61 42.2 33.3 49.9



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 20.554 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

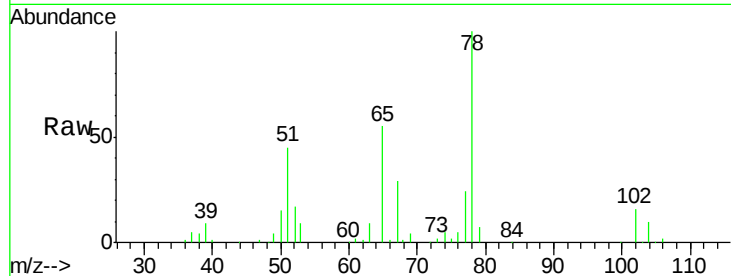
VD0304SBS01

Tot Ion: 65 Resp: 353965

Ion Ratio Lower Upper

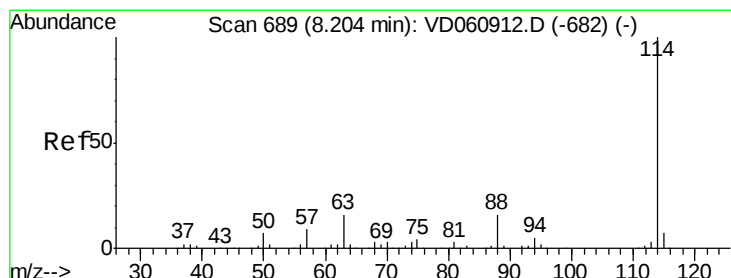
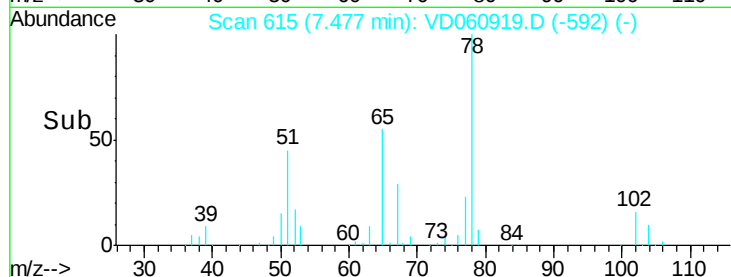
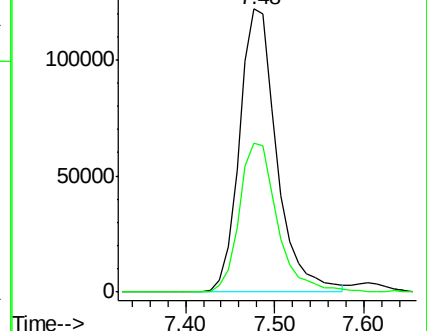
65 100

67 52.5 0.0 109.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 693

Delta R.T. 0.04 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

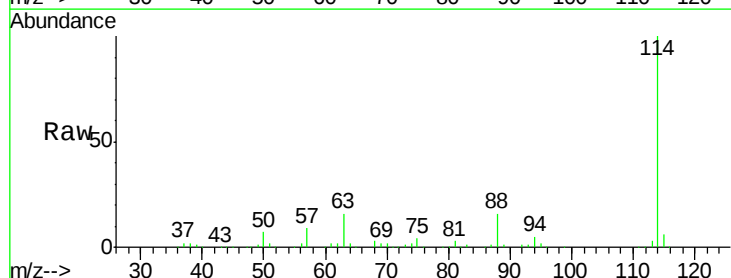
Tgt Ion: 114 Resp: 1293208

Ion Ratio Lower Upper

114 100

63 15.7 0.0 32.0

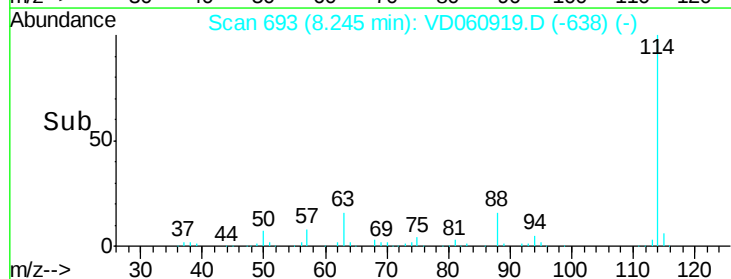
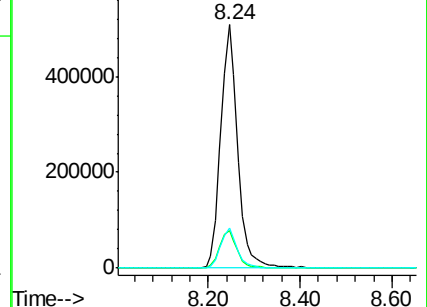
88 16.3 0.0 32.8

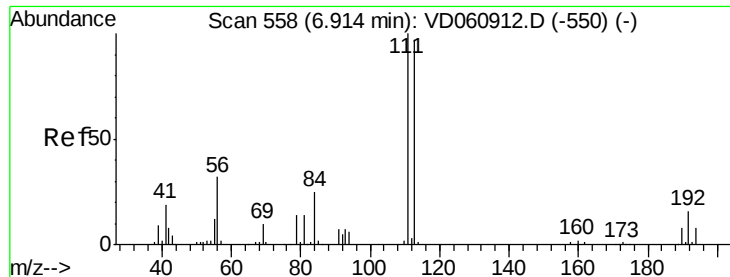


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

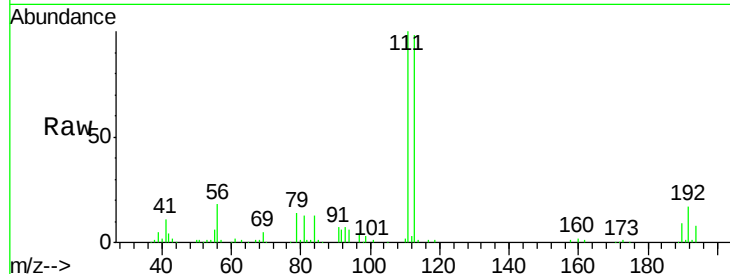




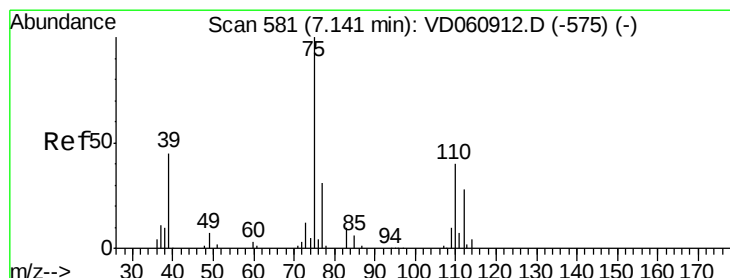
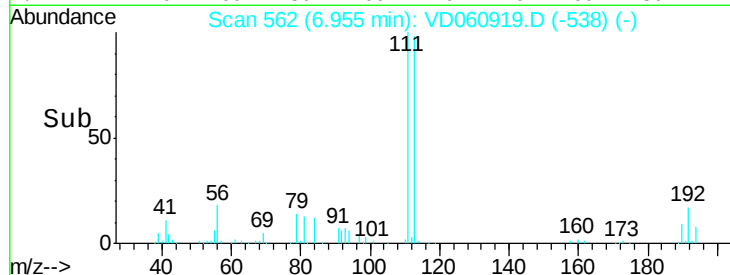
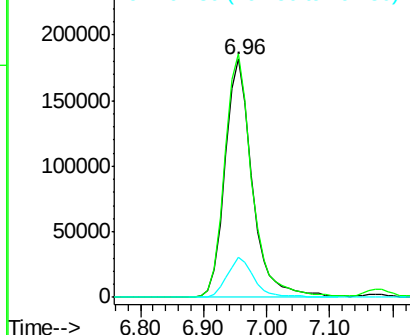
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.96 min Scan# 562
Delta R.T. 0.04 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion:113 Resp: 543264
Ion Ratio Lower Upper
113 100
111 102.2 82.6 124.0
192 17.1 13.4 20.2

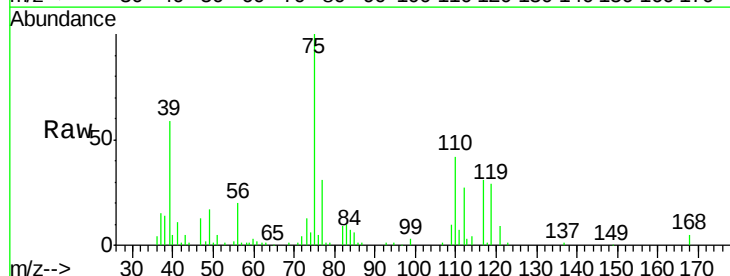


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

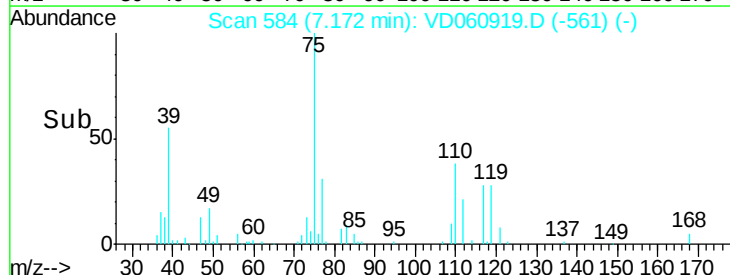
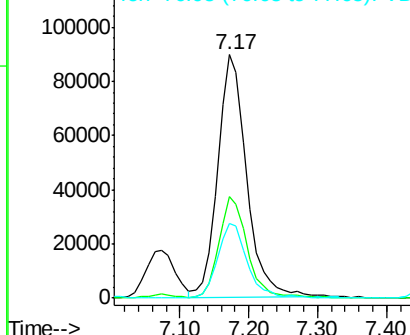


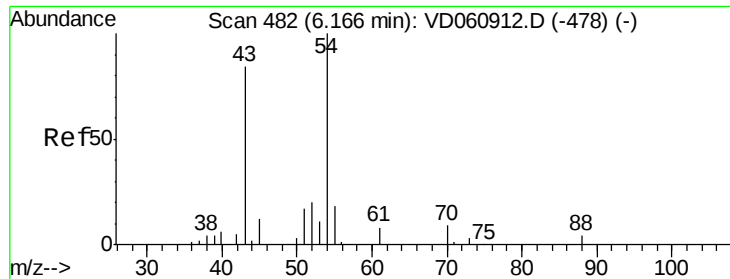
#36
1,1-Dichloropropene
Concen: 21.978 ug/l
RT: 7.17 min Scan# 584
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 75 Resp: 261321
Ion Ratio Lower Upper
75 100
110 41.6 19.9 59.7
77 30.6 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

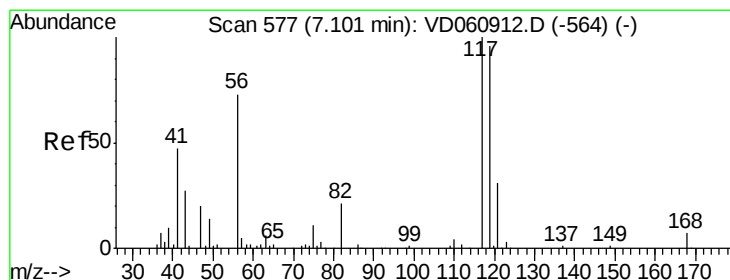
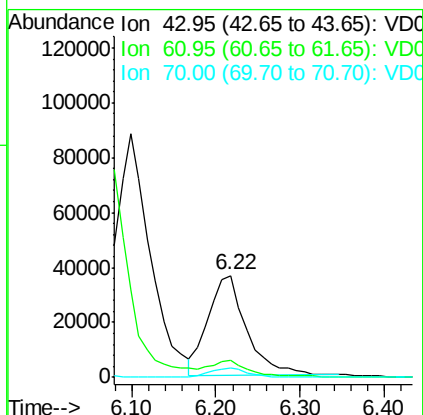
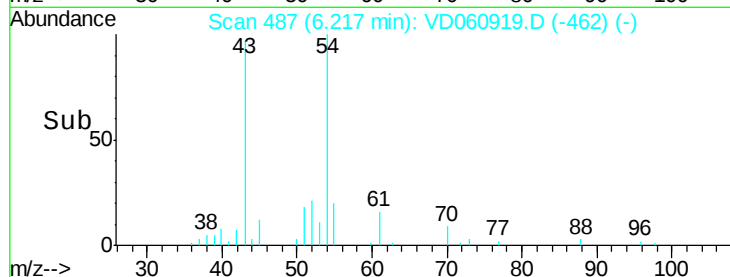
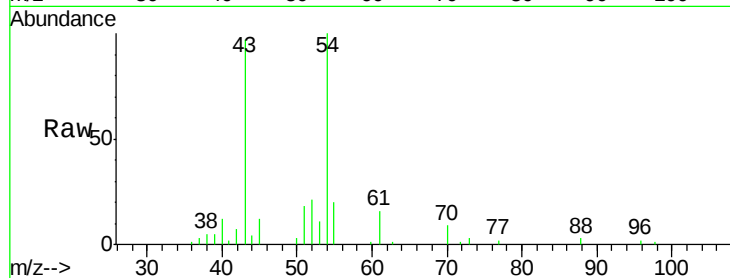




#37
Ethyl Acetate
Concen: 19.166 ug/l
RT: 6.22 min Scan# 487
Delta R.T. 0.05 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

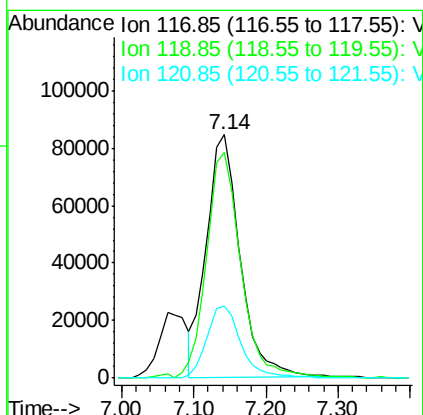
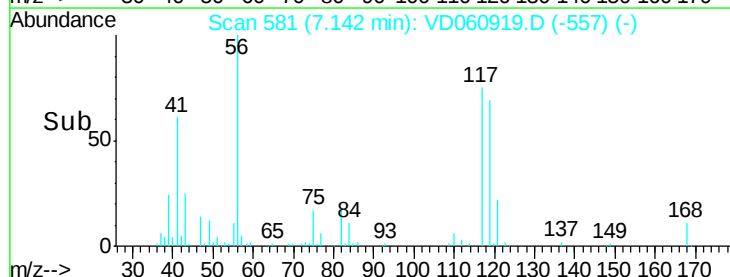
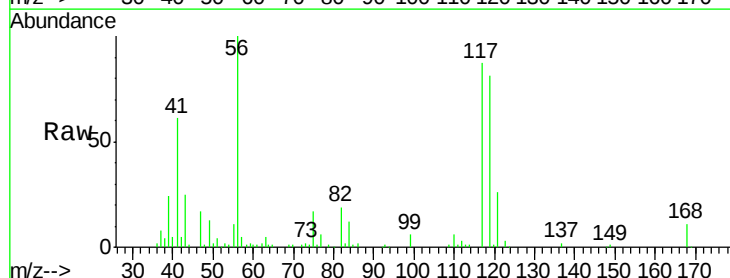
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

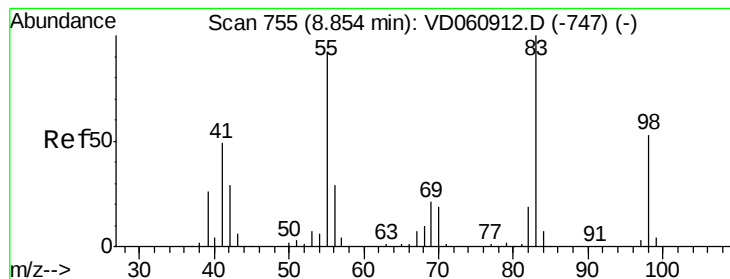
Tot Ion: 43 Resp: 117151
Ion Ratio Lower Upper
43 100
61 16.2 12.1 18.1
70 9.3 7.3 10.9



#38
Carbon Tetrachloride
Concen: 21.502 ug/l
RT: 7.14 min Scan# 581
Delta R.T. 0.04 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 117 Resp: 274675
Ion Ratio Lower Upper
117 100
119 92.6 76.9 115.3
121 29.7 24.5 36.7





#39

Methvlcvclohexane

Concen: 23.021 ug/l

RT: 8.89 min Scan# 759

Delta R.T. 0.04 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

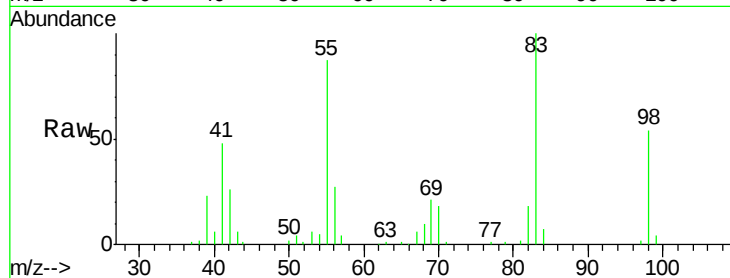
Tot Ion: 83 Resp: 299213

Ion Ratio Lower Upper

83 100

55 87.0 73.8 110.8

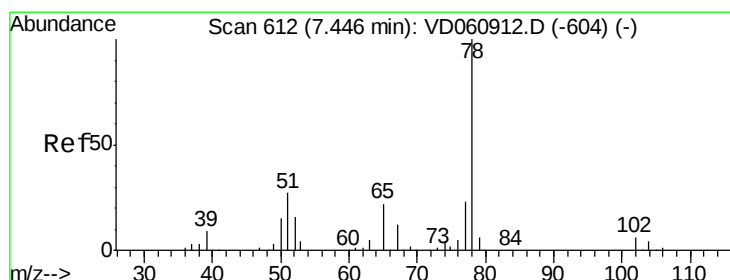
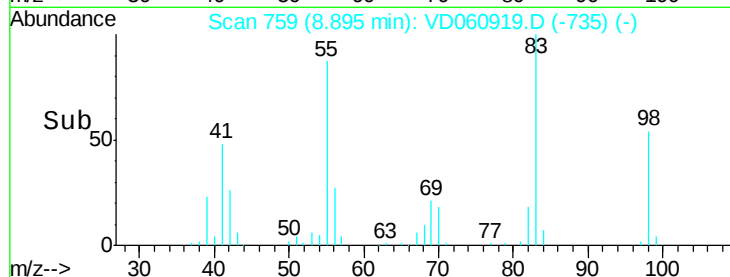
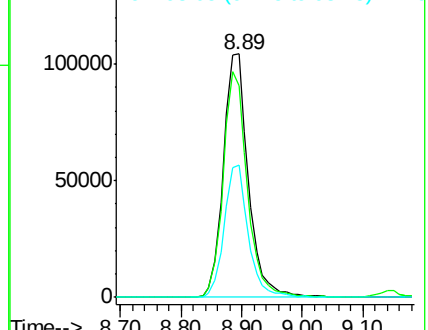
98 54.5 42.4 63.6



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 22.698 ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.04 min

Lab File: VD060919.D

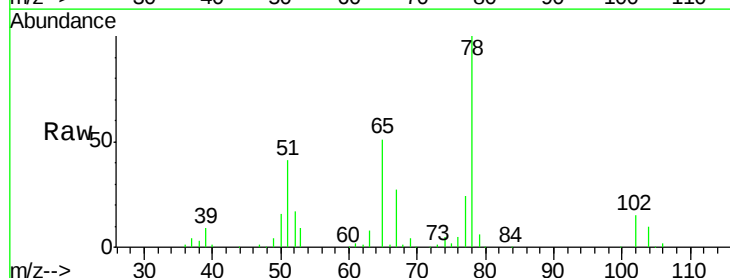
Acq: 4 Mar 2019 13:13

Tgt Ion: 78 Resp: 687301

Ion Ratio Lower Upper

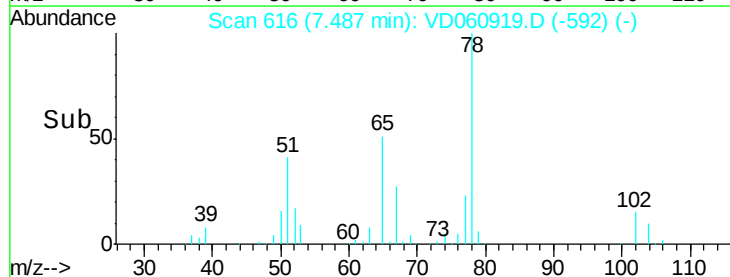
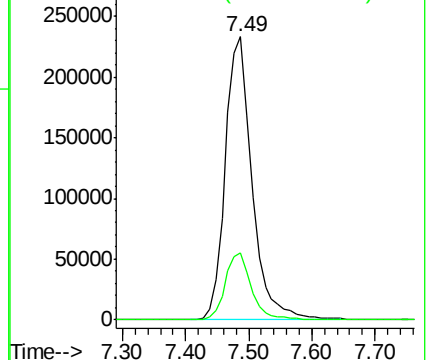
78 100

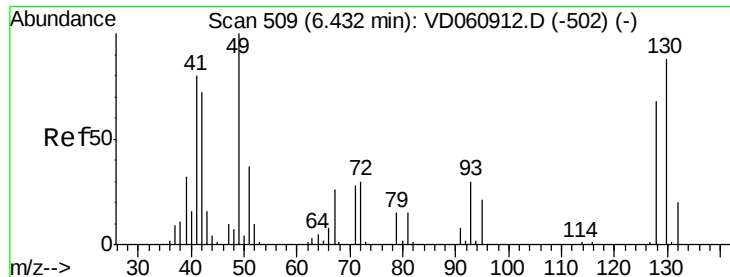
77 23.6 18.4 27.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

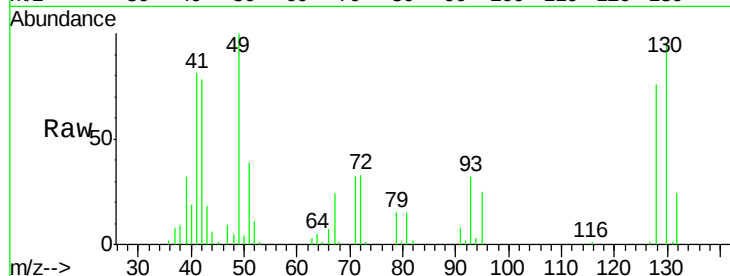




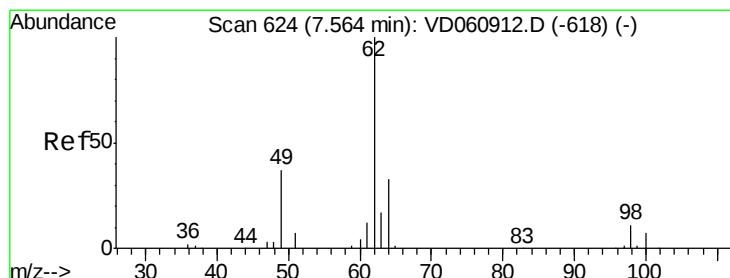
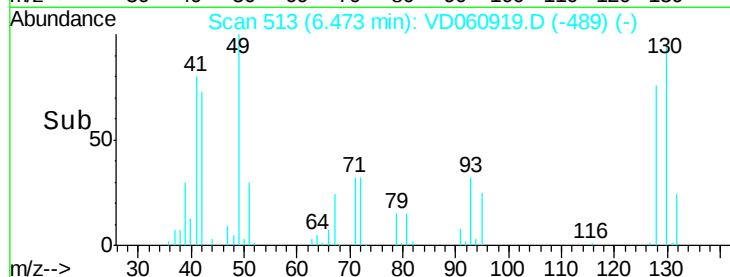
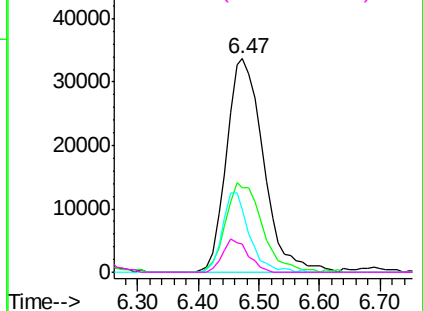
#41
Methacrylonitrile
Concen: 37.393 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.04 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion: 41 Resp: 142786
Ion Ratio Lower Upper
41 100
39 39.4 32.1 48.1
67 29.6 25.6 38.4
52 13.1 9.7 14.5

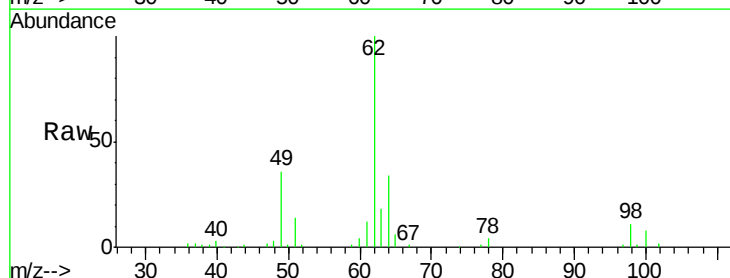


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

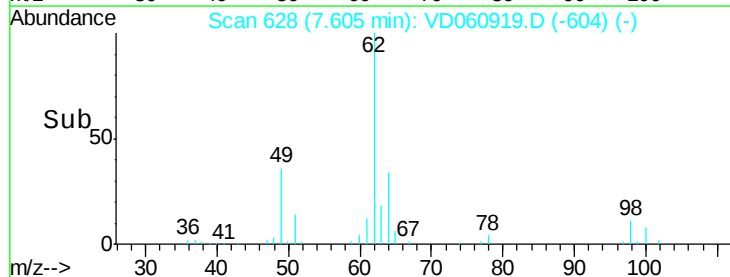
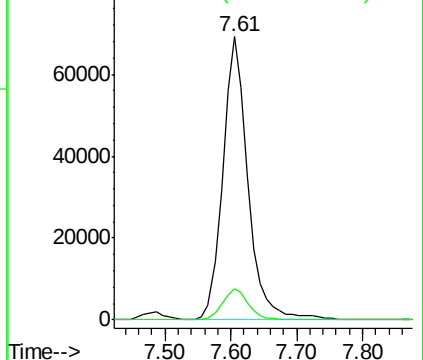


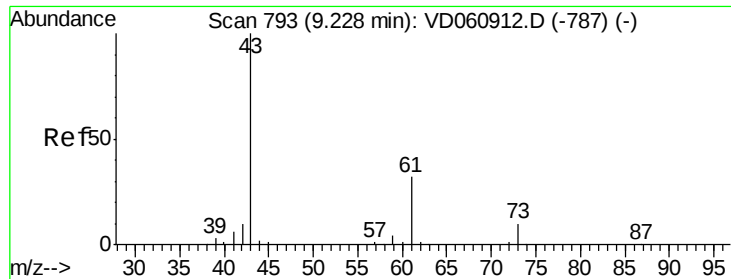
#42
1,2-Dichloroethane
Concen: 21.627 ug/l
RT: 7.61 min Scan# 628
Delta R.T. 0.04 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 62 Resp: 184260
Ion Ratio Lower Upper
62 100
98 10.9 0.0 21.4



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



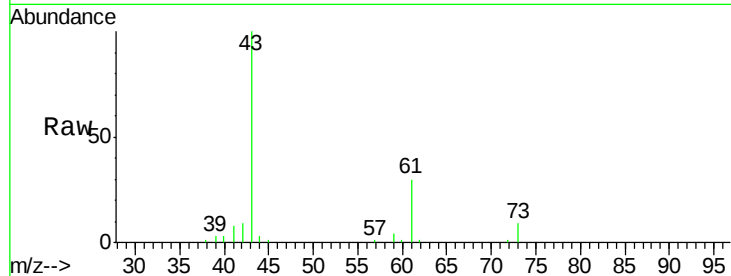


#43

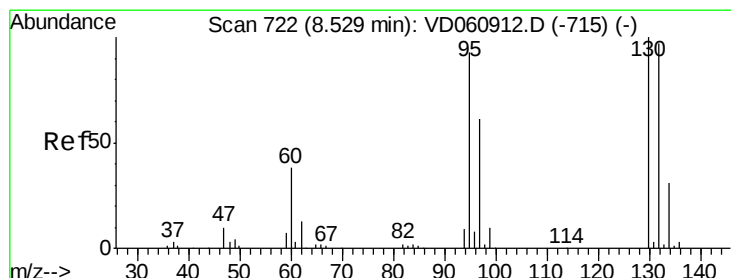
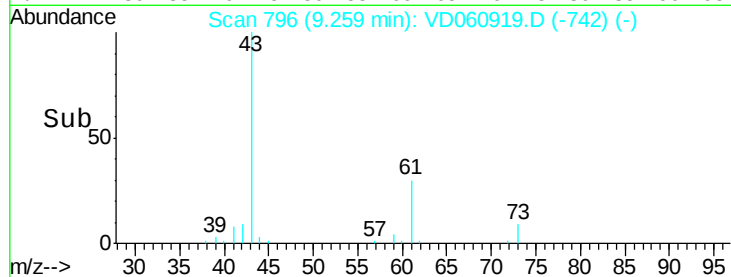
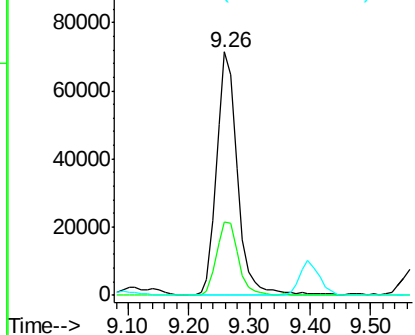
Isopropyl Acetate
 Concen: 20.089 ug/l
 RT: 9.26 min Scan# 796
 Delta R.T. 0.03 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

Tot Ion: 43 Resp: 171200
 Ion Ratio Lower Upper
 43 100
 61 30.0 25.6 38.4
 87 0.0 0.2 0.4#



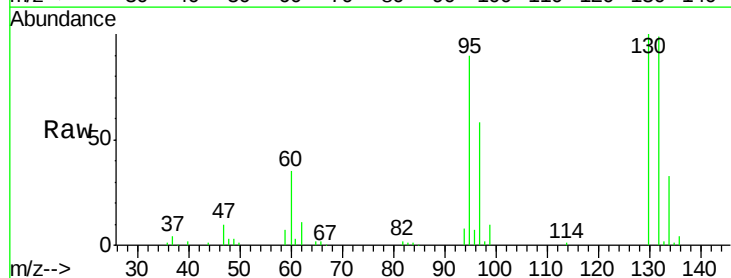
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



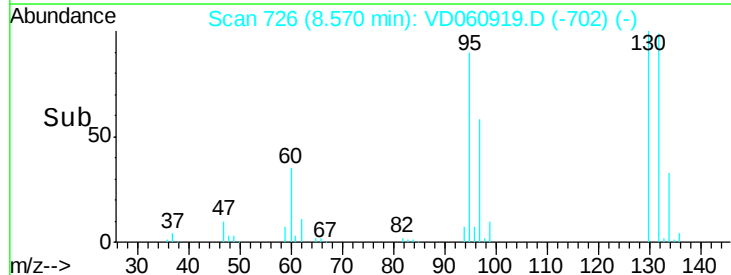
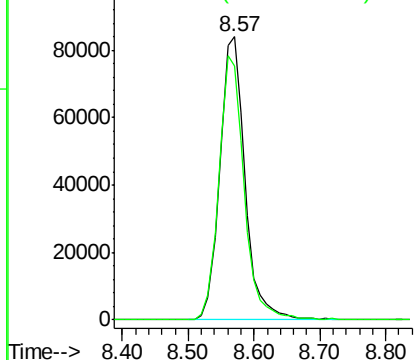
#44

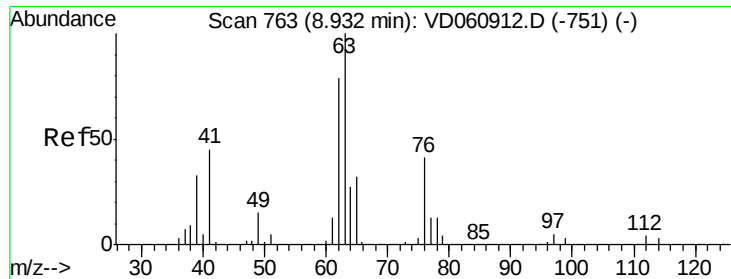
Trichloroethene
 Concen: 21.592 ug/l
 RT: 8.57 min Scan# 726
 Delta R.T. 0.04 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 130 Resp: 223917
 Ion Ratio Lower Upper
 130 100
 95 89.6 0.0 185.8



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 22.039 ug/l

RT: 8.96 min Scan# 766

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

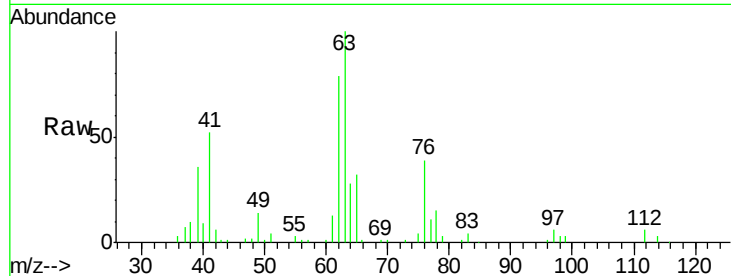
VD0304SBS01

Tot Ion: 63 Resp: 176682

Ion Ratio Lower Upper

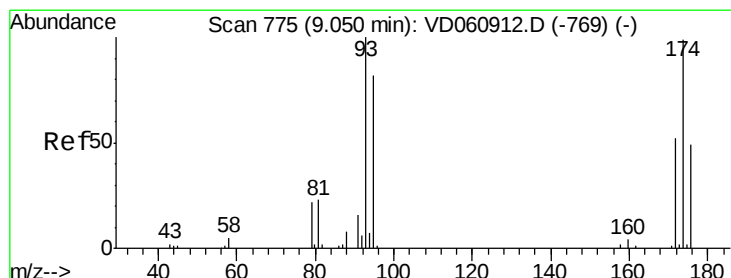
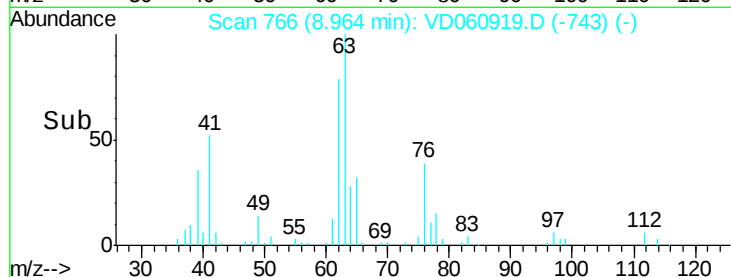
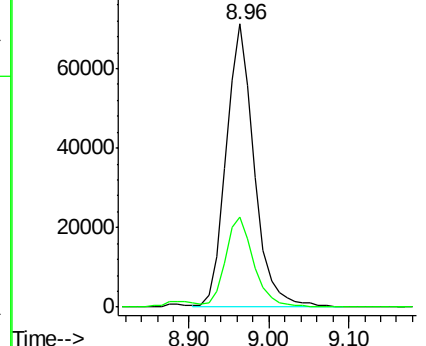
63 100

65 31.6 25.8 38.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 21.016 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

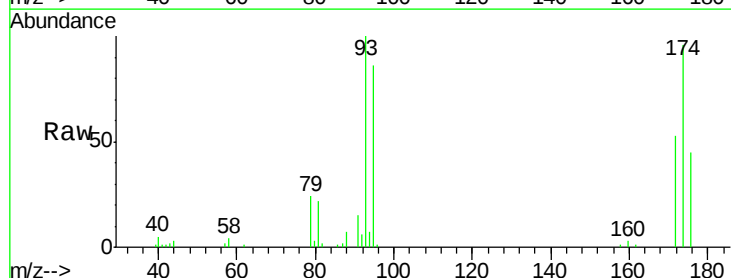
Tgt Ion: 93 Resp: 108671

Ion Ratio Lower Upper

93 100

95 86.2 65.8 98.6

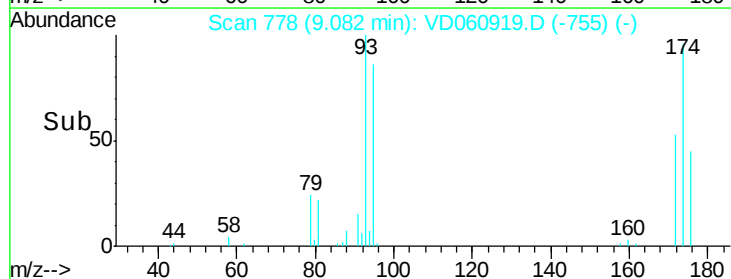
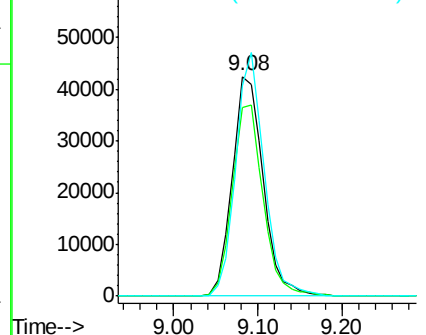
174 95.8 79.5 119.3

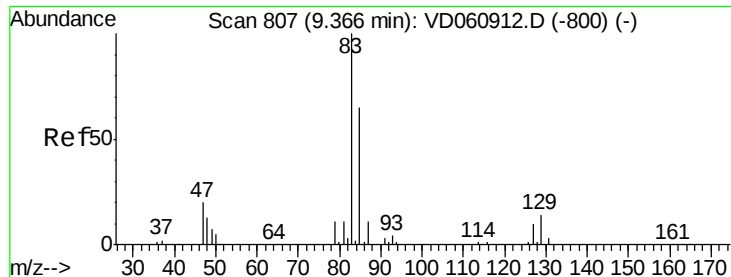


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.618 ug/l

RT: 9.40 min Scan# 810

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

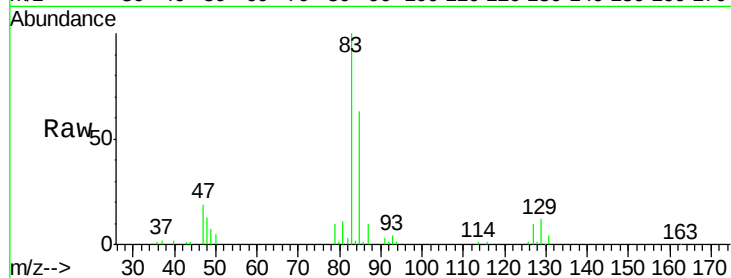
Tot Ion: 83 Resp: 232557

Ion Ratio Lower Upper

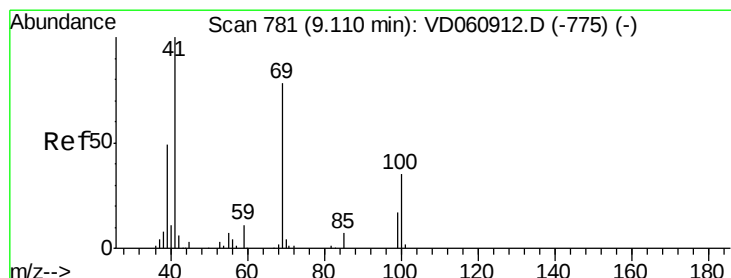
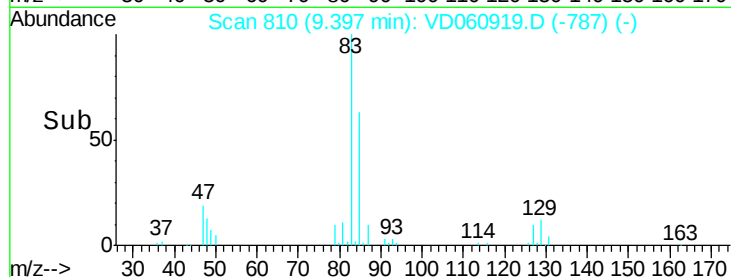
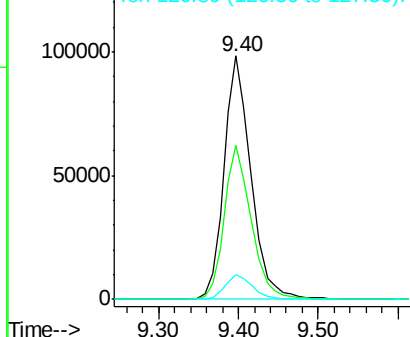
83 100

85 63.5 52.2 78.4

127 10.2 8.2 12.4



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 19.912 ug/l

RT: 9.14 min Scan# 784

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

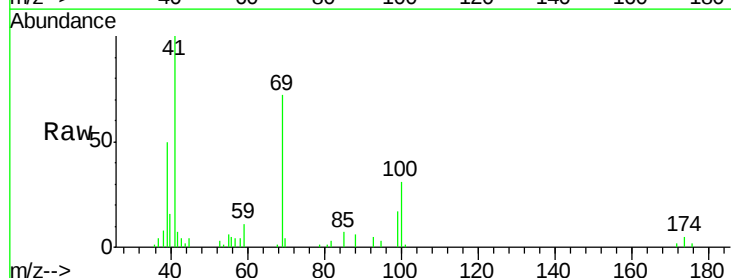
Tgt Ion: 41 Resp: 95336

Ion Ratio Lower Upper

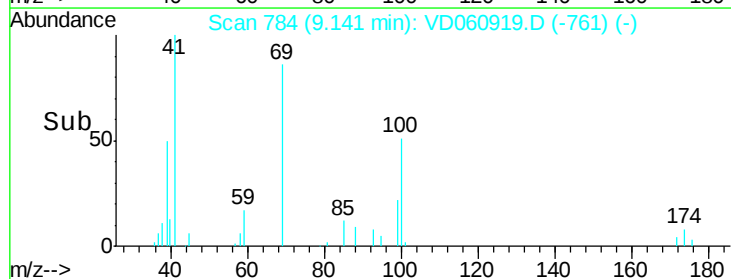
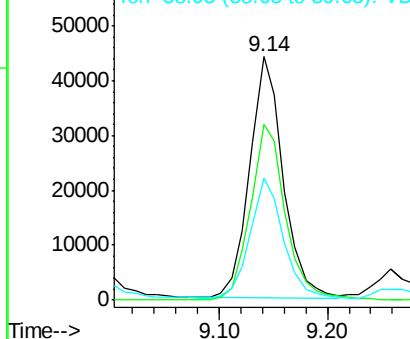
41 100

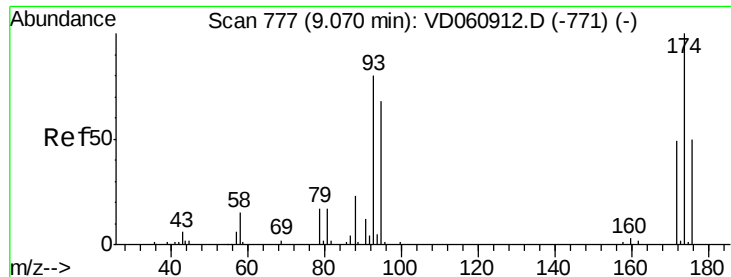
69 72.2 62.1 93.1

39 49.9 39.5 59.3



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

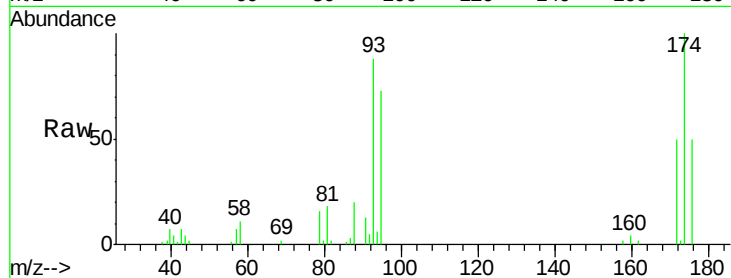




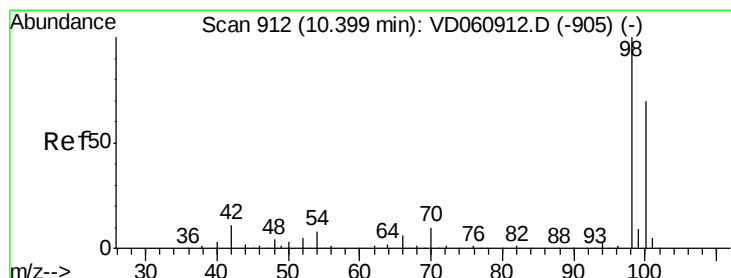
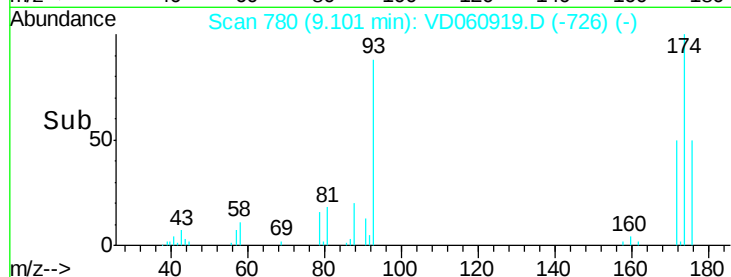
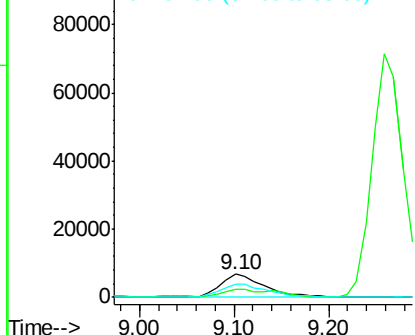
#49
1,4-Dioxane
Concen: 429.056 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion: 88 Resp: 21506
Ion Ratio Lower Upper
88 100
43 32.8 24.2 36.4
58 56.6 51.1 76.7

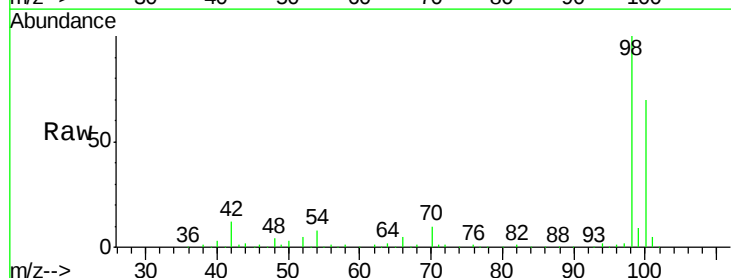


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

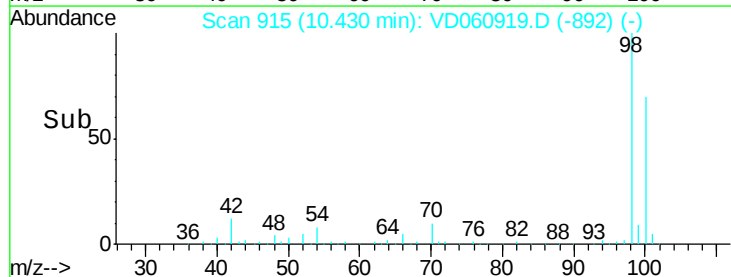
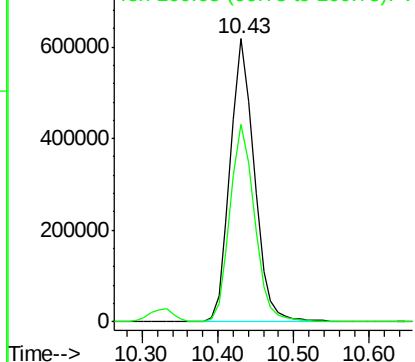


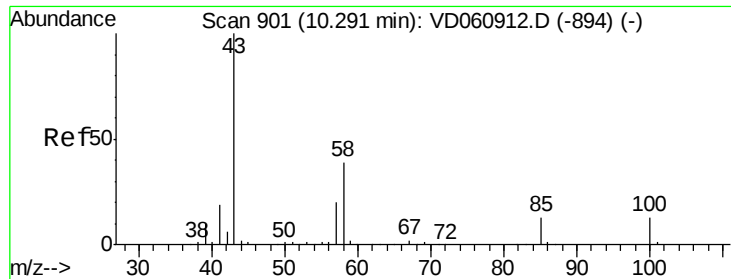
#50
Toluene-d8
Concen: 429.056 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 98 Resp: 1372351
Ion Ratio Lower Upper
98 100
100 69.8 57.0 85.4



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 103.788 ug/l

RT: 10.32 min Scan# 904

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

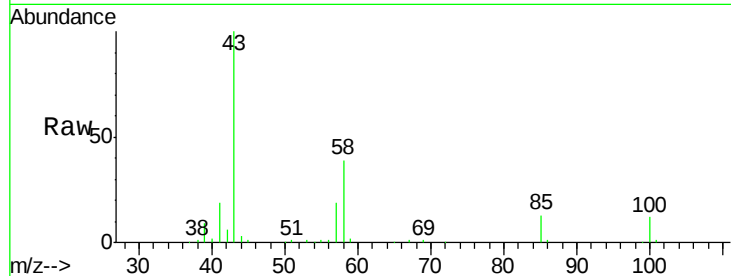
VD0304SBS01

Tot Ion: 43 Resp: 538512

Ion Ratio Lower Upper

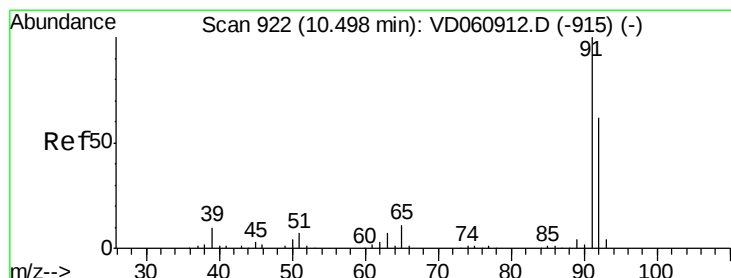
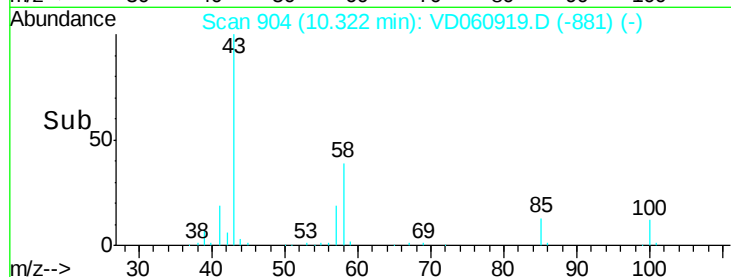
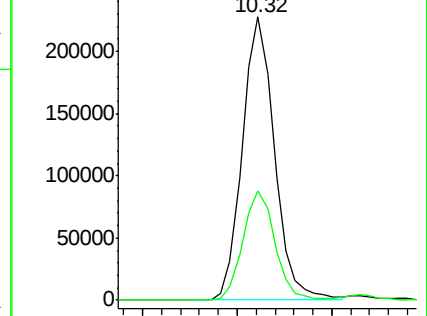
43 100

58 38.6 31.0 46.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 22.186 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.03 min

Lab File: VD060919.D

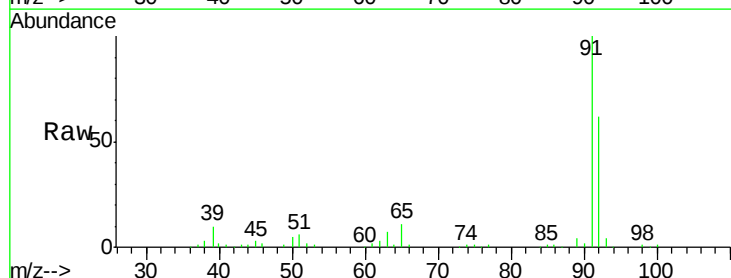
Acq: 4 Mar 2019 13:13

Tgt Ion: 92 Resp: 431610

Ion Ratio Lower Upper

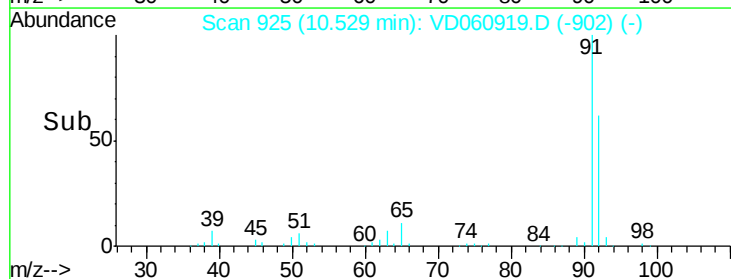
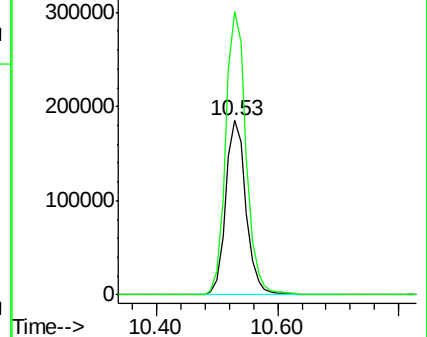
92 100

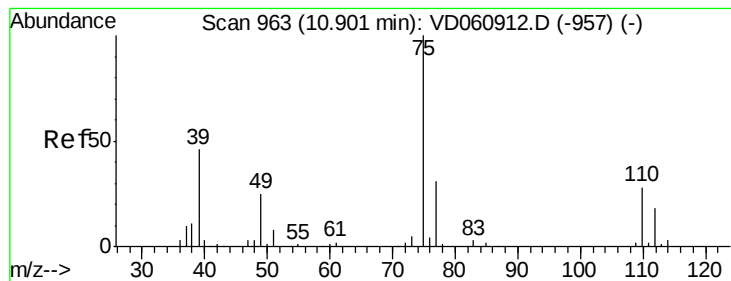
91 162.4 129.9 194.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 21.647 ug/l

RT: 10.93 min Scan# 966

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

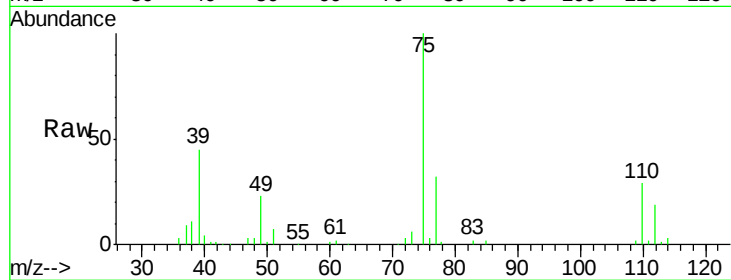
VD0304SBS01

Tot Ion: 75 Resp: 224682

Ion Ratio Lower Upper

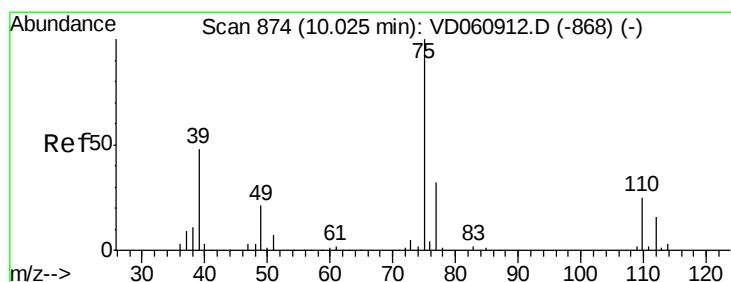
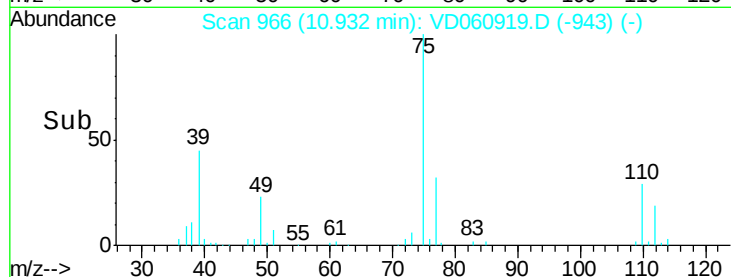
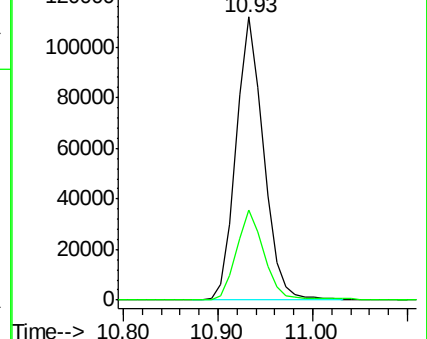
75 100

77 31.9 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 22.214 ug/l

RT: 10.06 min Scan# 877

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

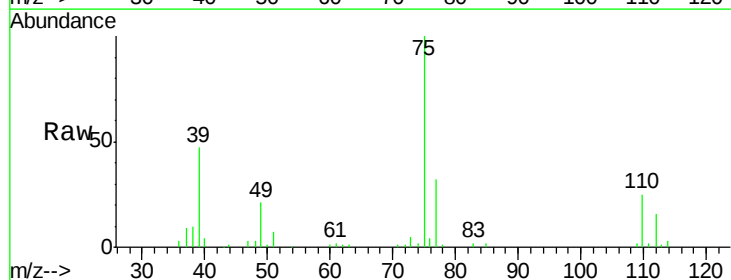
Tgt Ion: 75 Resp: 285914

Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9

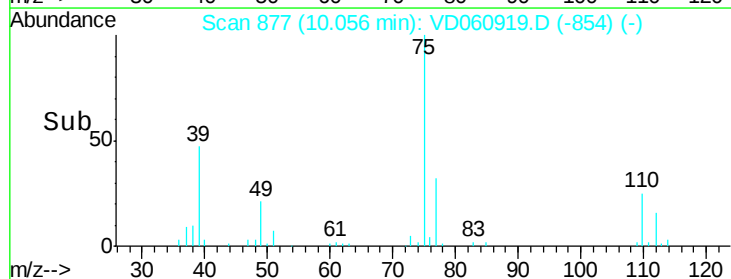
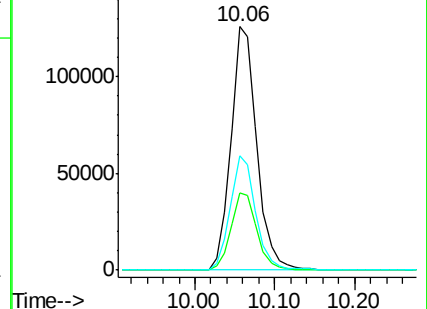
39 47.1 38.2 57.4

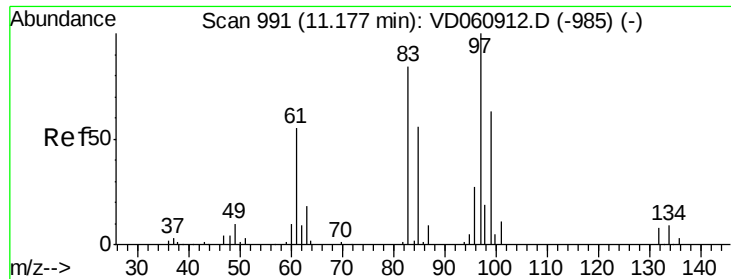


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

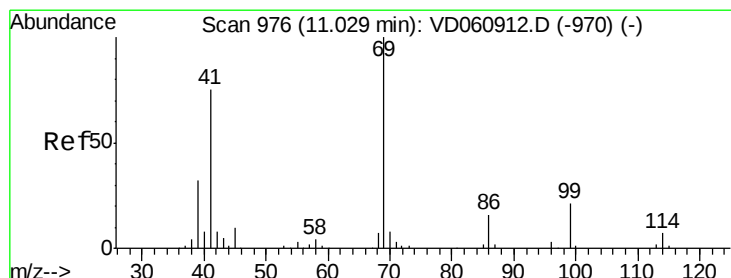
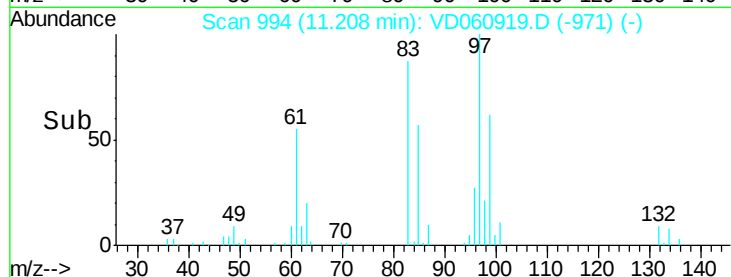
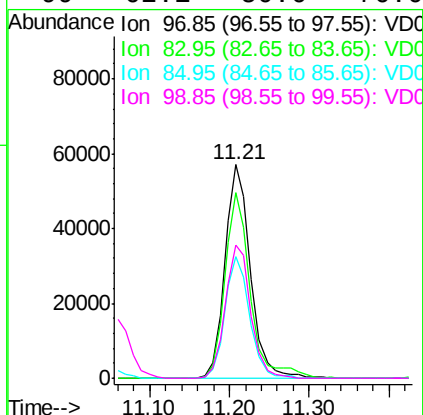
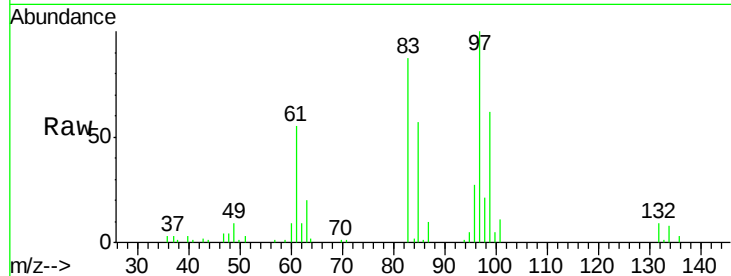




#55
1,1,2-Trichloroethane
Concen: 19.863 ug/l
RT: 11.21 min Scan# 994
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

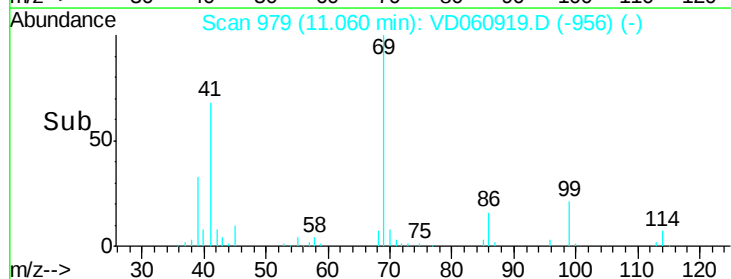
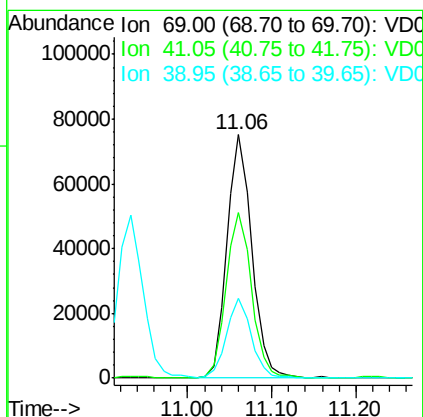
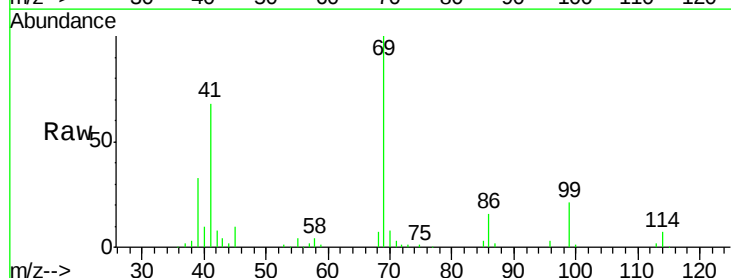
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

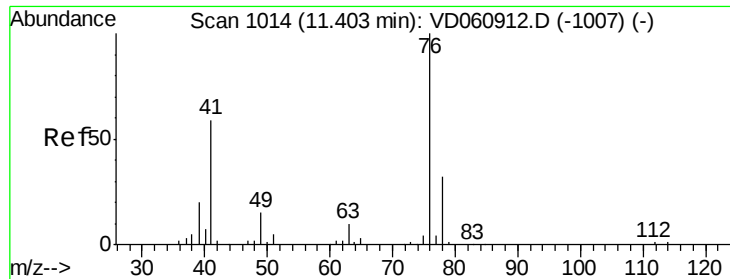
Tot Ion:	97	Resp:	127790
Ion	Ratio	Lower	Upper
97	100		
83	87.0	67.5	101.3
85	56.7	44.9	67.3
99	62.1	50.6	76.0



#56
Ethyl methacrylate
Concen: 22.608 ug/l
RT: 11.06 min Scan# 979
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion:	69	Resp:	154195
Ion	Ratio	Lower	Upper
69	100		
41	68.0	59.9	89.9
39	32.6	25.7	38.5

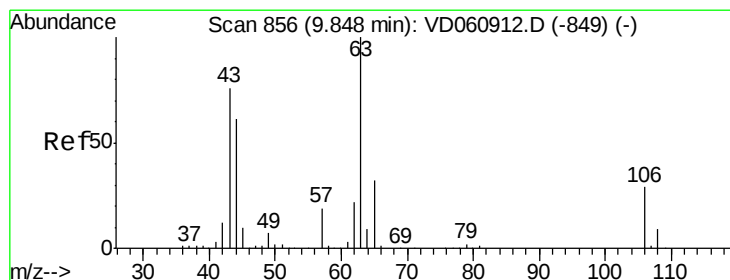
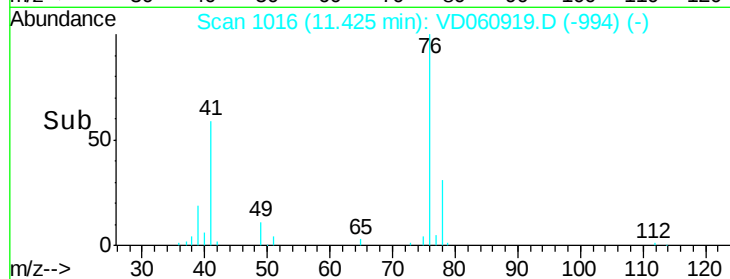
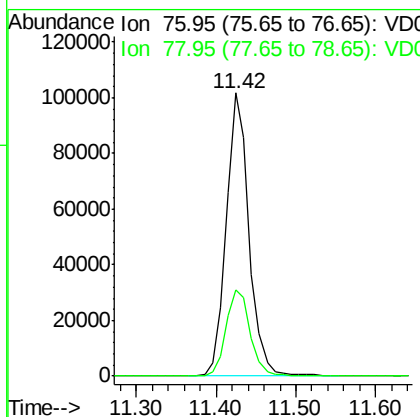
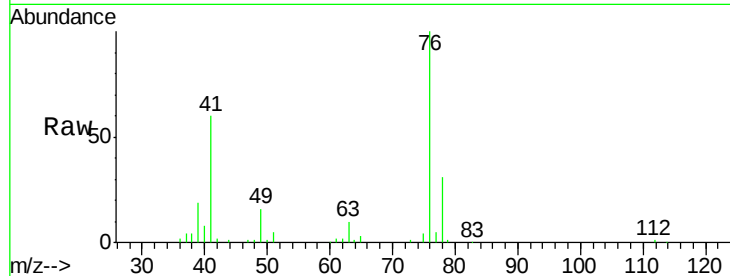




#57
 1,3-Dichloropropane
 Concen: 21.798 ug/l
 RT: 11.42 min Scan# 1016
 Delta R.T. 0.02 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

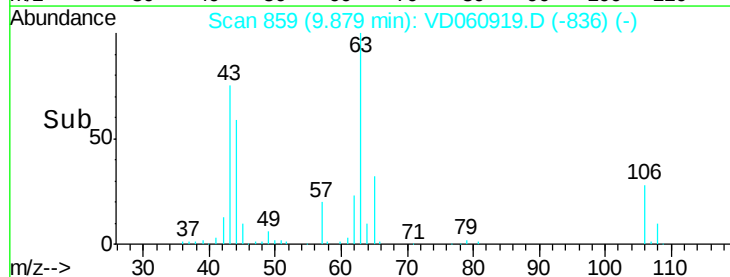
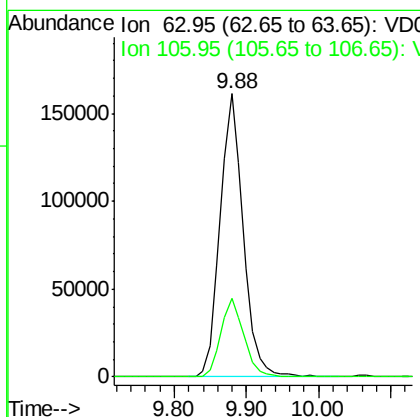
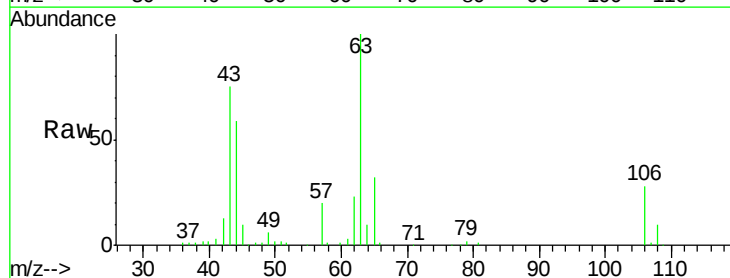
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

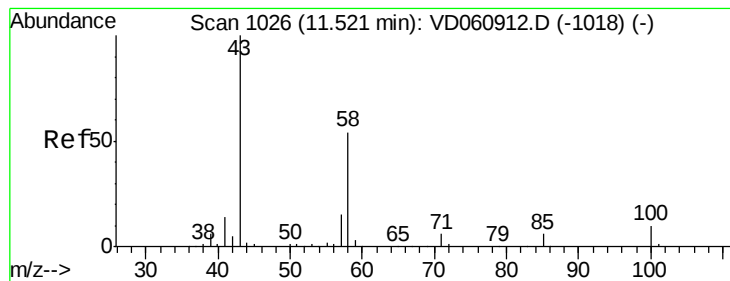
Tot Ion: 76 Resp: 203893
 Ion Ratio Lower Upper
 76 100
 78 30.7 25.6 38.4



#58
 2-Chloroethyl Vinyl ether
 Concen: 98.119 ug/l
 RT: 9.88 min Scan# 859
 Delta R.T. 0.03 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 63 Resp: 357401
 Ion Ratio Lower Upper
 63 100
 106 28.0 23.0 34.6





#59

2-Hexanone

Concen: 113.632 ug/l

RT: 11.55 min Scan# 1029

Delta R.T. 0.03 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

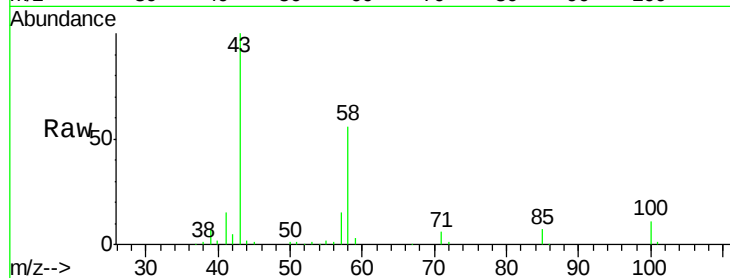
VD0304SBS01

Tot Ion: 43 Resp: 413302

Ion Ratio Lower Upper

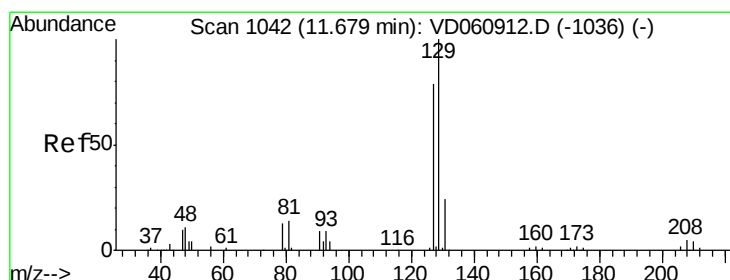
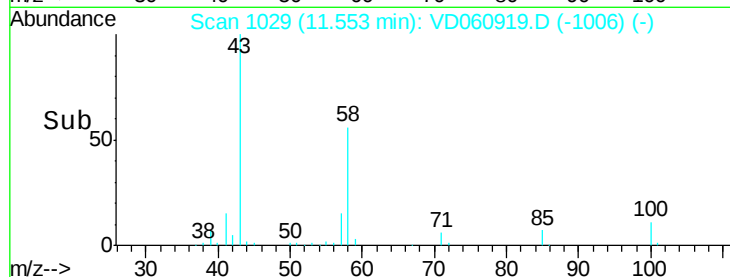
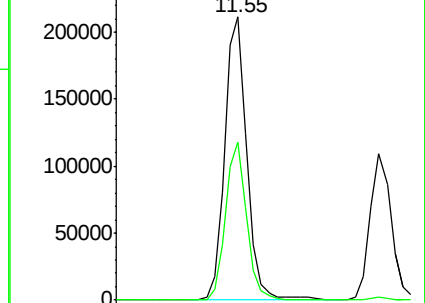
43 100

58 55.9 27.2 81.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 21.691 ug/l

RT: 11.70 min Scan# 1044

Delta R.T. 0.02 min

Lab File: VD060919.D

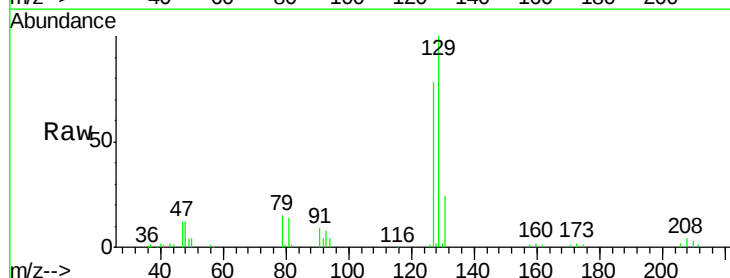
Acq: 4 Mar 2019 13:13

Tgt Ion:129 Resp: 201269

Ion Ratio Lower Upper

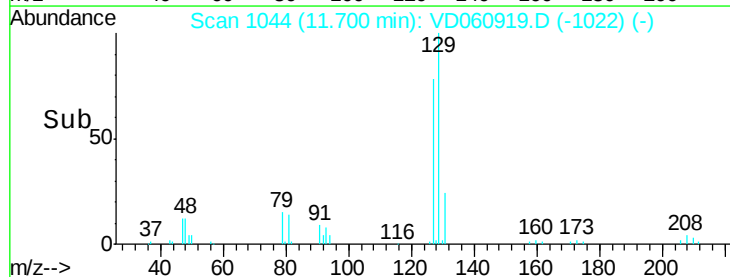
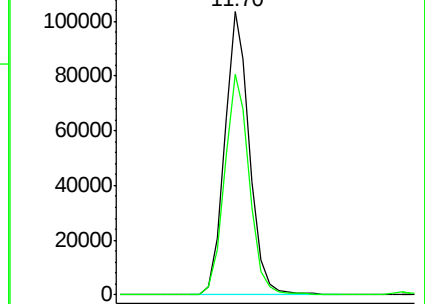
129 100

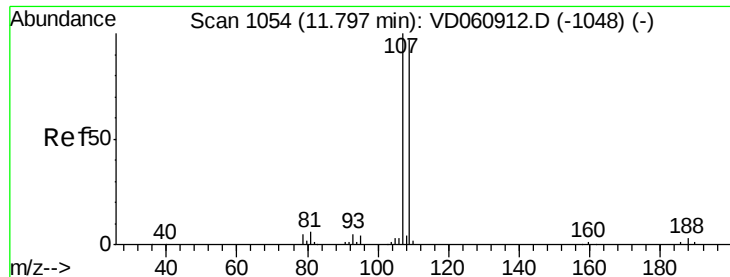
127 78.0 39.4 118.1



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

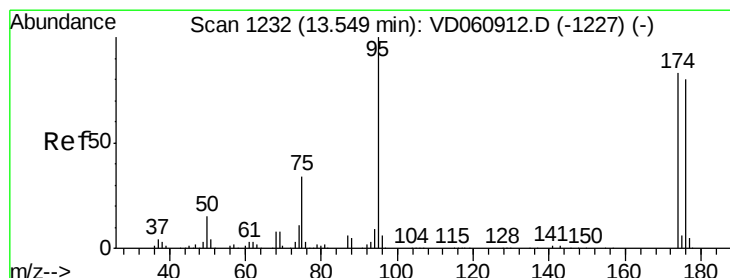
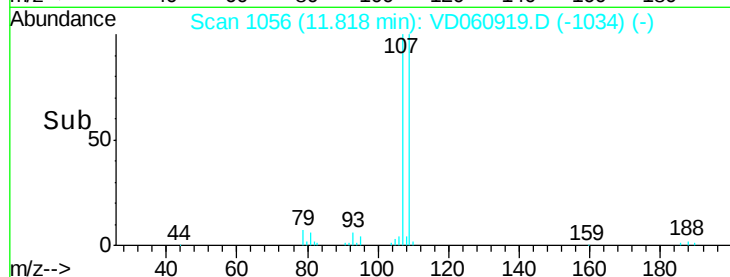
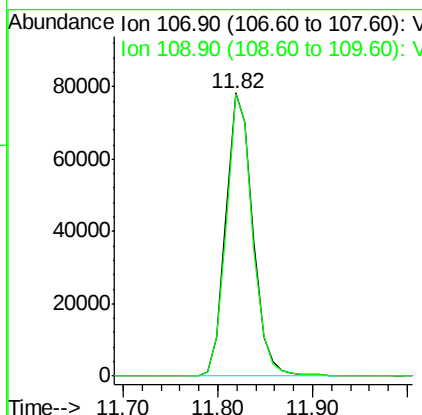
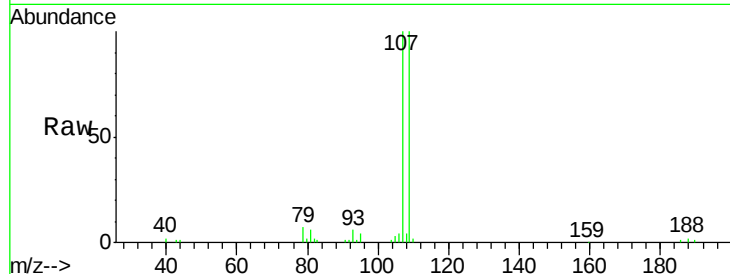




#61
 1,2-Dibromoethane
 Concen: 20.293 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. 0.02 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

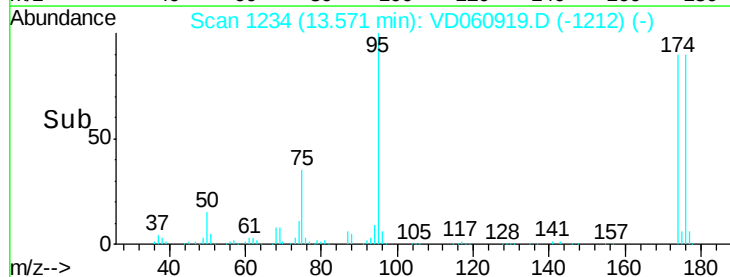
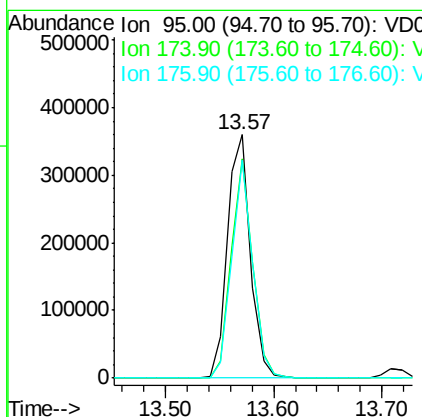
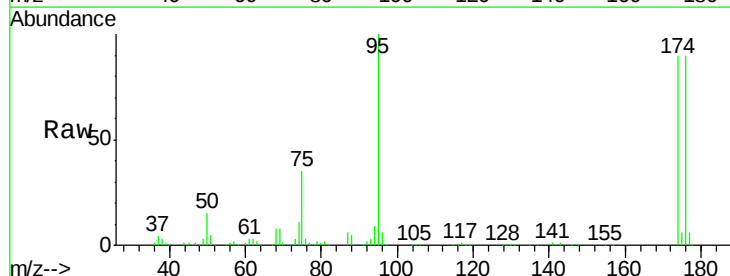
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

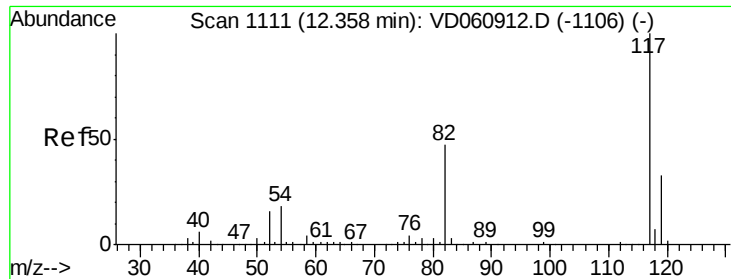
Tot Ion: 107 Resp: 153373
 Ion Ratio Lower Upper
 107 100
 109 99.6 78.0 117.0



#62
 4-Bromofluorobenzene
 Concen: 20.293 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. 0.02 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 95 Resp: 531126
 Ion Ratio Lower Upper
 95 100
 174 89.8 0.0 165.6
 176 89.7 0.0 160.6

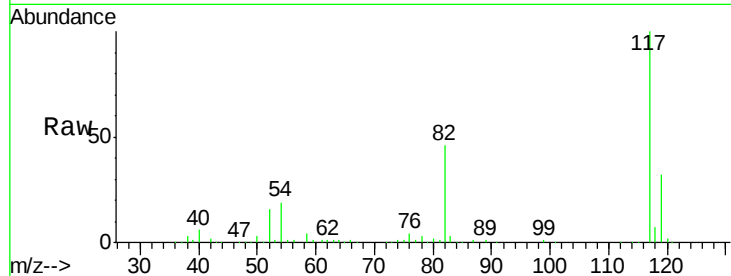




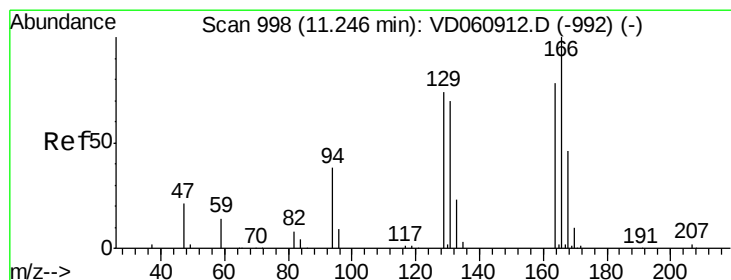
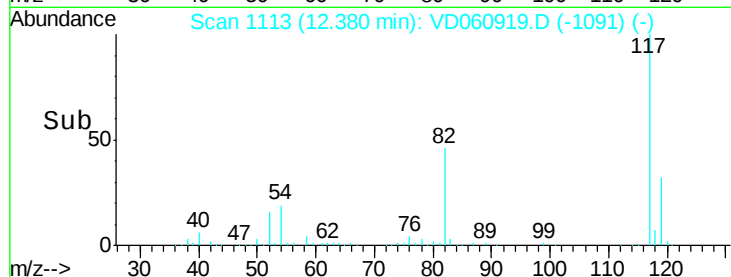
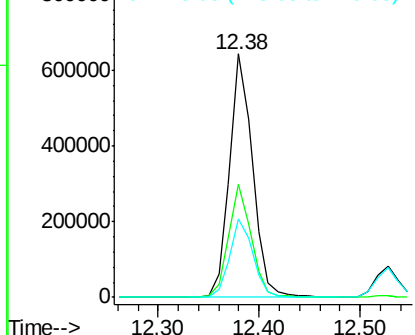
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion:117 Resp: 1017592
Ion Ratio Lower Upper
117 100
82 46.4 37.5 56.3
119 32.3 26.2 39.2

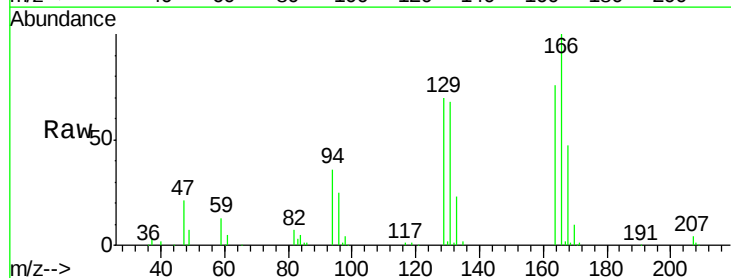


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

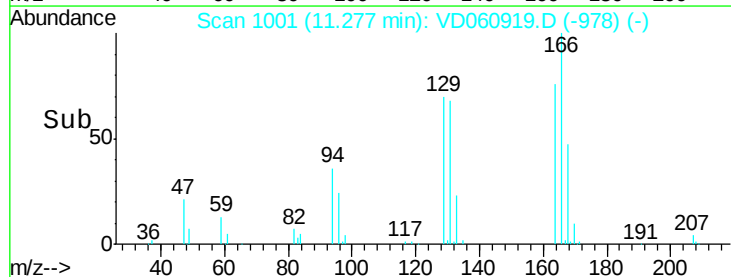
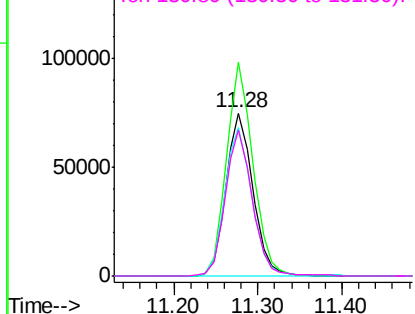


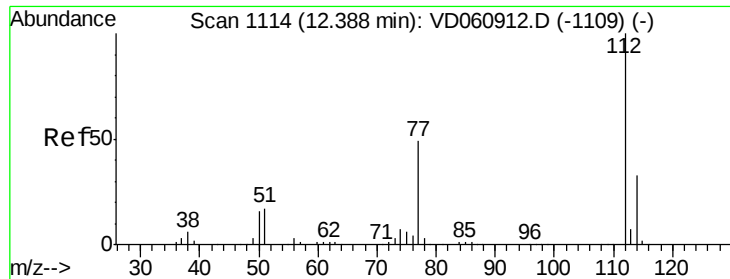
#64
Tetrachloroethene
Concen: 21.381 ug/l
RT: 11.28 min Scan# 1001
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion:164 Resp: 166553
Ion Ratio Lower Upper
164 100
166 131.1 102.3 153.5
129 91.1 75.6 113.4
131 89.4 72.0 108.0



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

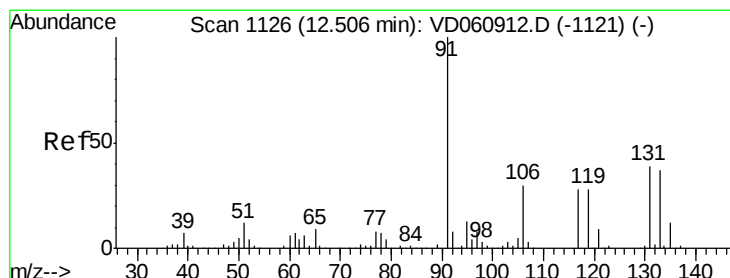
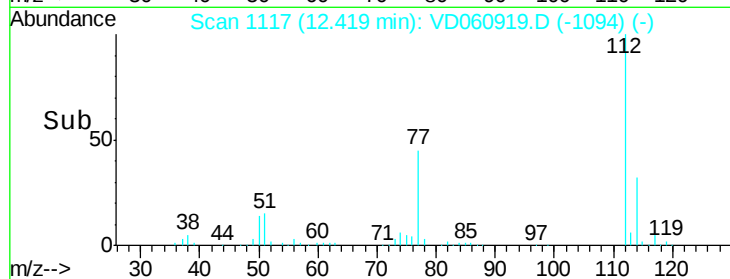
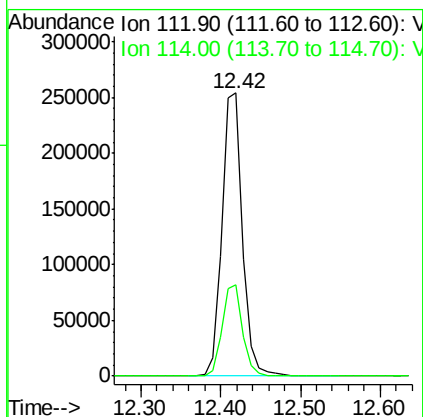
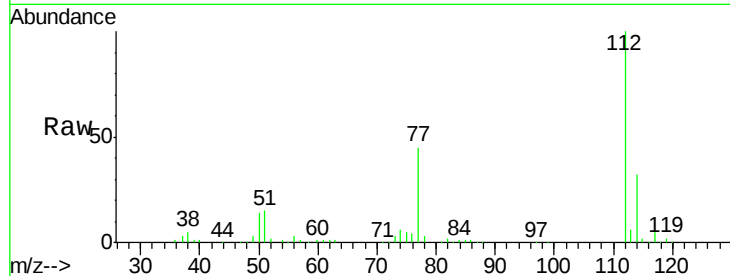




#65
Chlorobenzene
Concen: 20.250 ug/l
RT: 12.42 min Scan# 1117
Delta R.T. 0.03 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

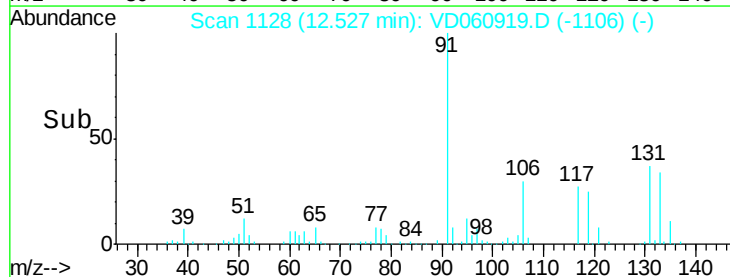
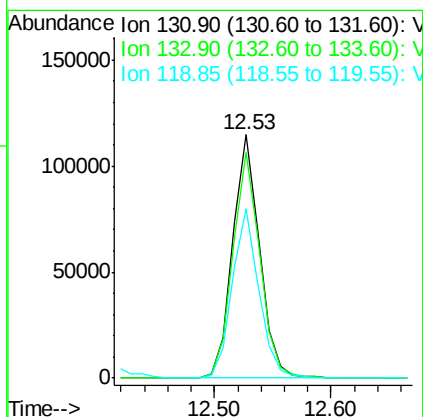
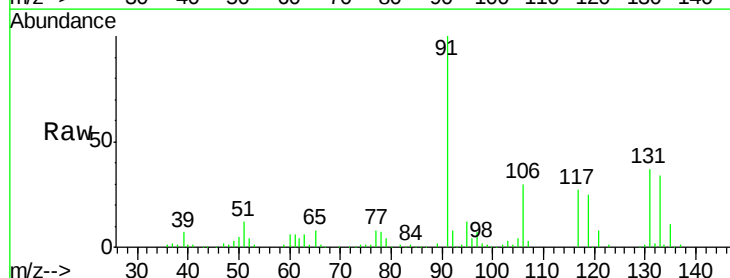
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

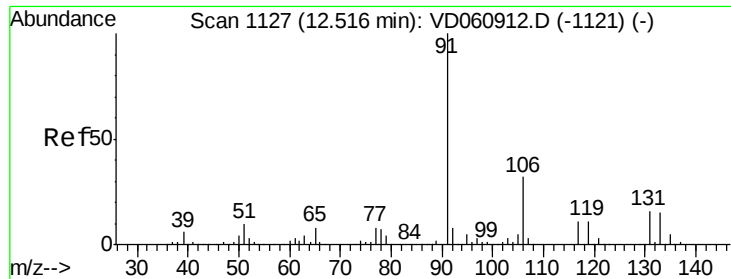
Tot Ion:112 Resp: 458770
Ion Ratio Lower Upper
112 100
114 32.3 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 22.572 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion:131 Resp: 183511
Ion Ratio Lower Upper
131 100
133 92.8 47.4 142.3
119 69.5 36.0 108.1

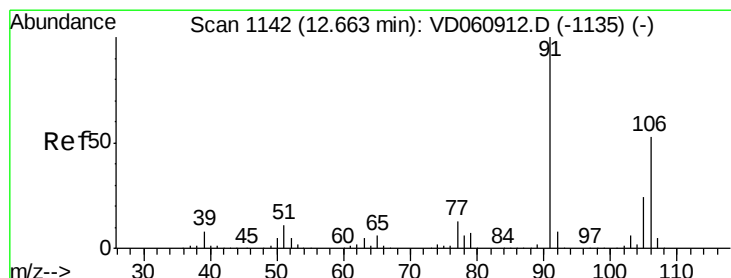
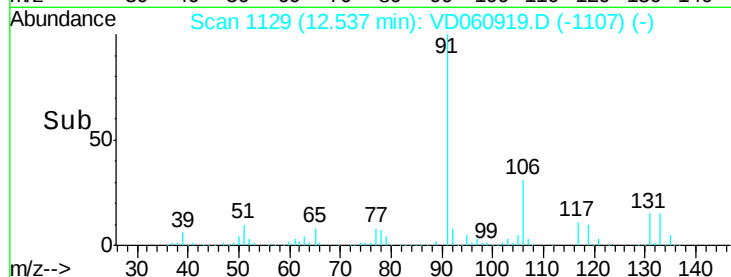
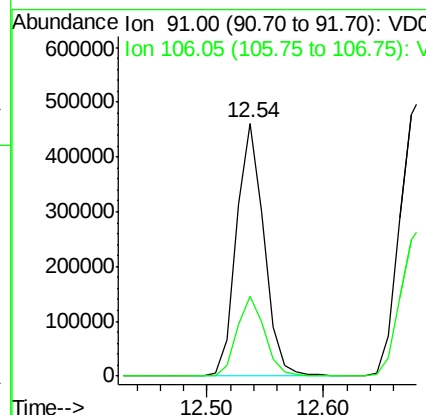
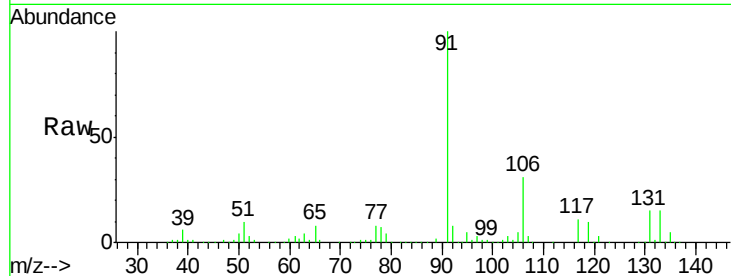




#67
Ethyl Benzene
Concen: 22.819 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

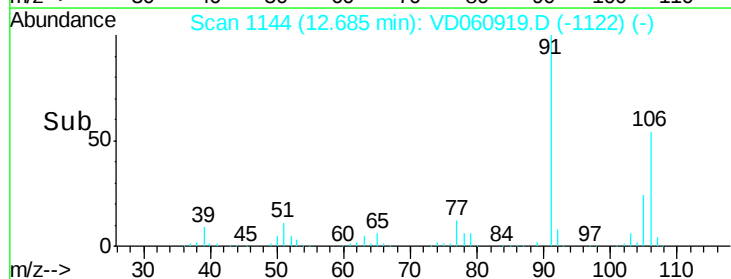
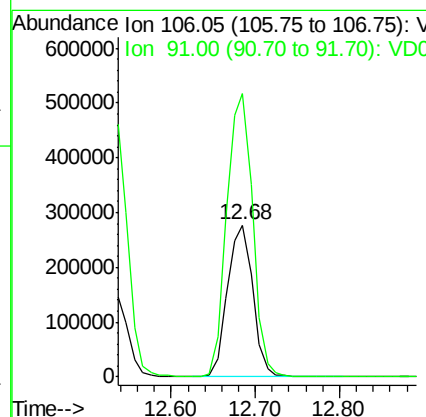
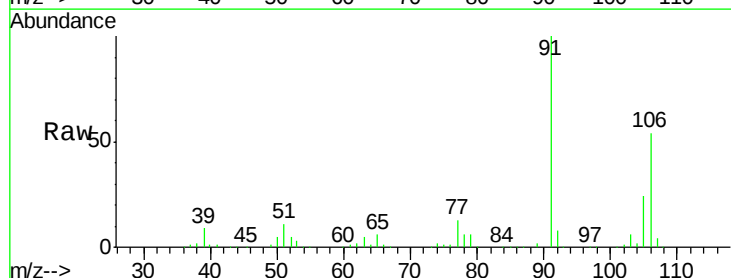
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

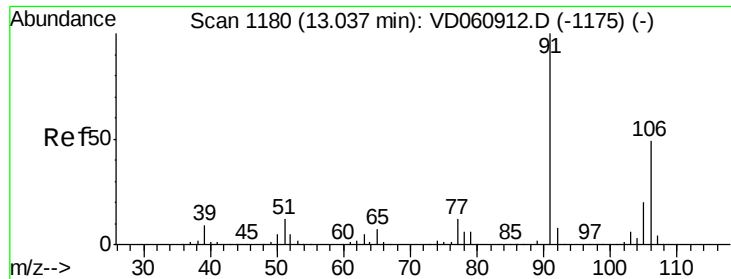
Tot Ion: 91 Resp: 752746
Ion Ratio Lower Upper
91 100
106 31.5 25.8 38.6



#68
m/p-Xylenes
Concen: 43.879 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 106 Resp: 578309
Ion Ratio Lower Upper
106 100
91 186.5 150.2 225.4

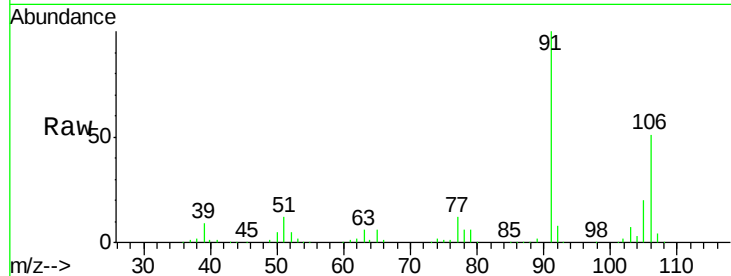




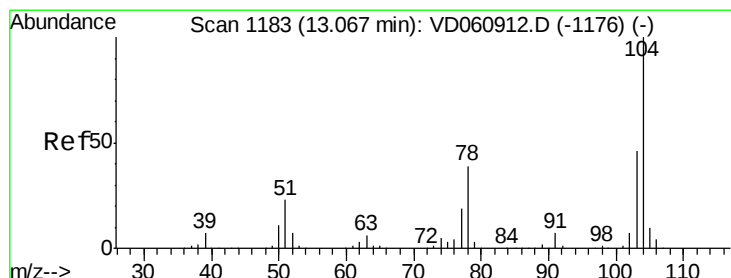
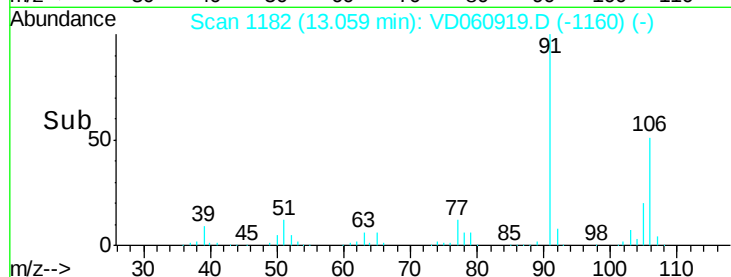
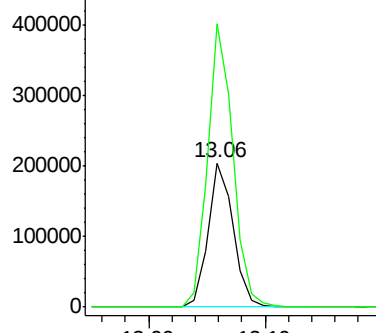
#69
o-Xylene
Concen: 24.627 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion:106 Resp: 304894
Ion Ratio Lower Upper
106 100
91 196.4 102.9 308.7

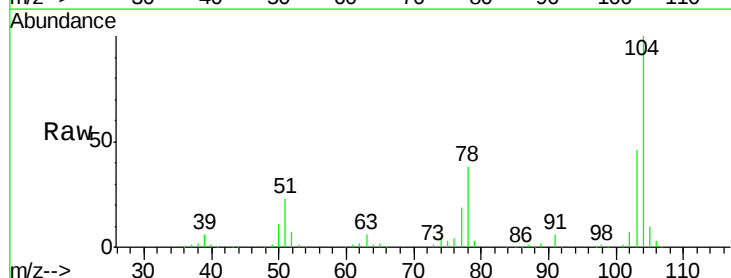


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

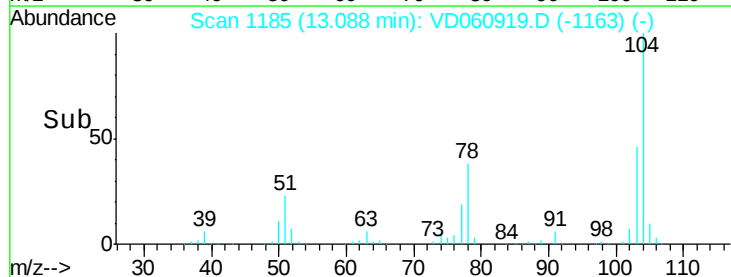
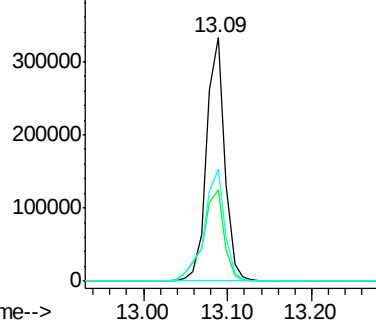


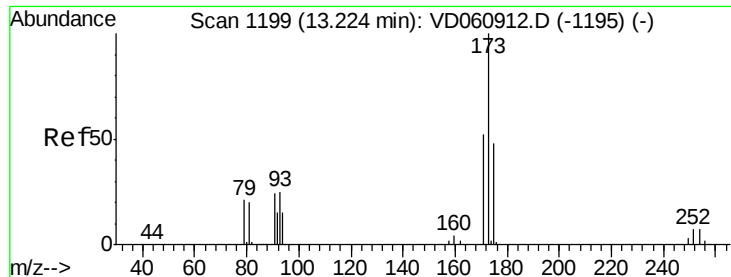
#70
Styrene
Concen: 24.034 ug/l
RT: 13.09 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion:104 Resp: 496431
Ion Ratio Lower Upper
104 100
78 37.5 31.0 46.4
103 45.9 36.5 54.7



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 21.197 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

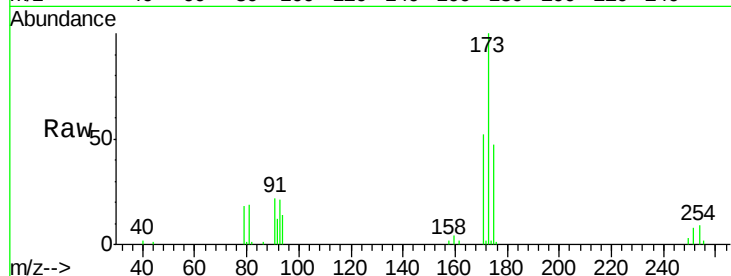
Tot Ion:173 Resp: 109072

Ion Ratio Lower Upper

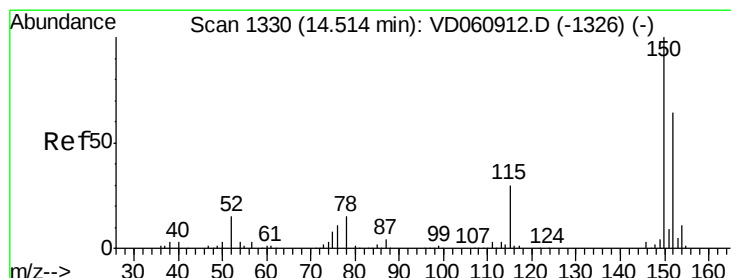
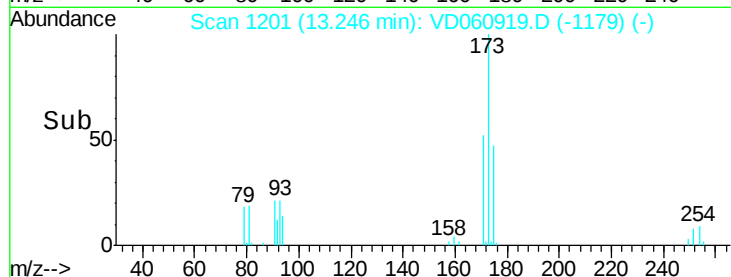
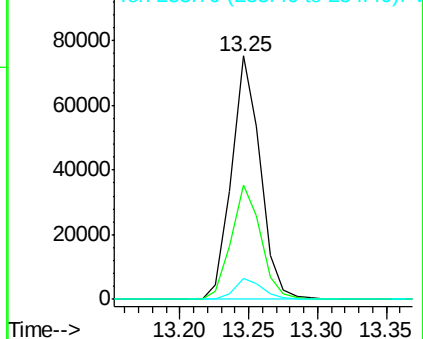
173 100

175 46.9 24.1 72.3

254 8.8 5.6 8.4#



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

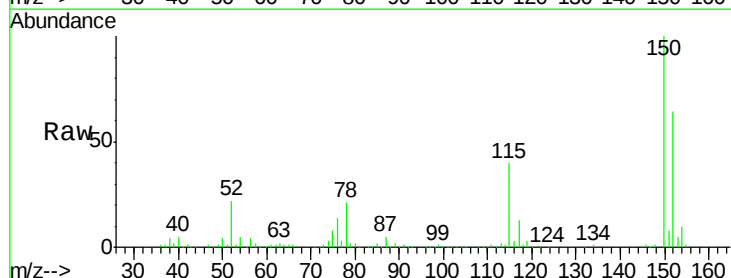
Tgt Ion:152 Resp: 472563

Ion Ratio Lower Upper

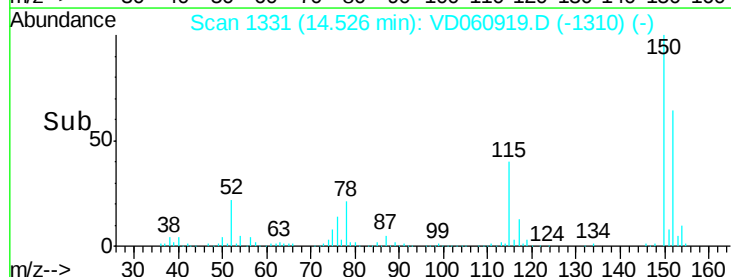
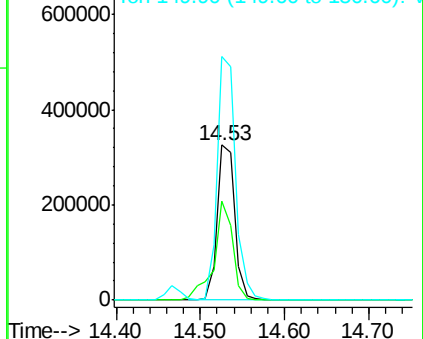
152 100

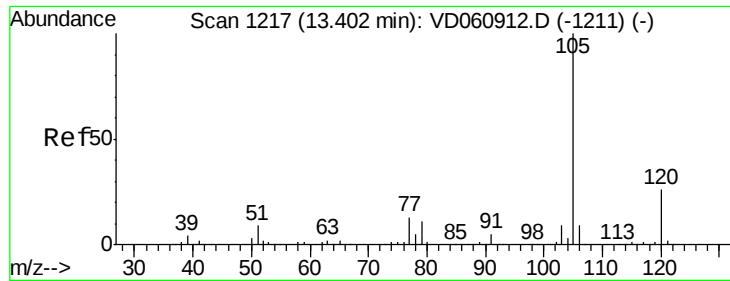
115 63.5 27.6 82.8

150 156.9 0.0 312.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.339 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

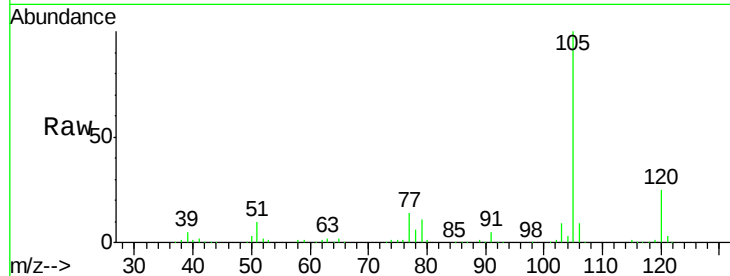
VD0304SBS01

Tot Ion:105 Resp: 742621

Ion Ratio Lower Upper

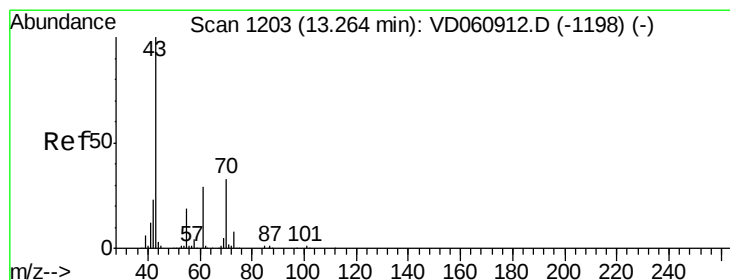
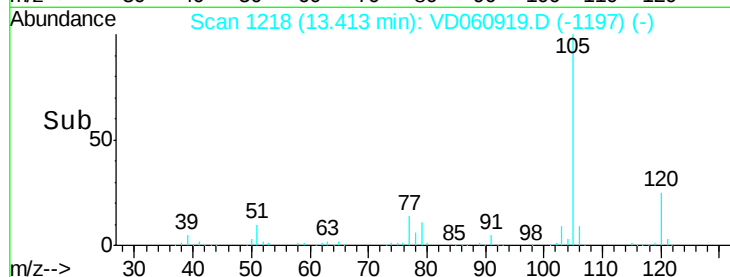
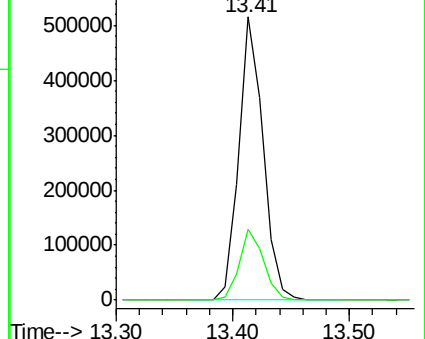
105 100

120 24.9 12.9 38.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 20.048 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Tgt Ion: 43 Resp: 218656

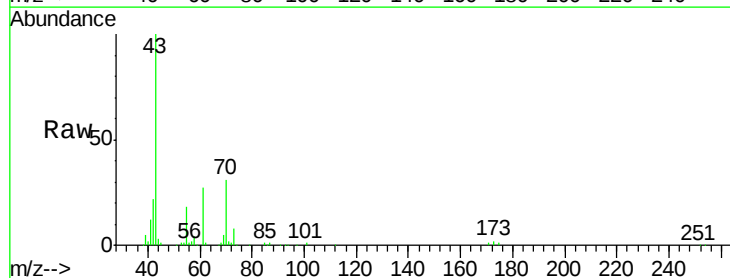
Ion Ratio Lower Upper

43 100

70 30.8 26.3 39.5

55 18.5 15.4 23.2

61 27.1 23.4 35.0

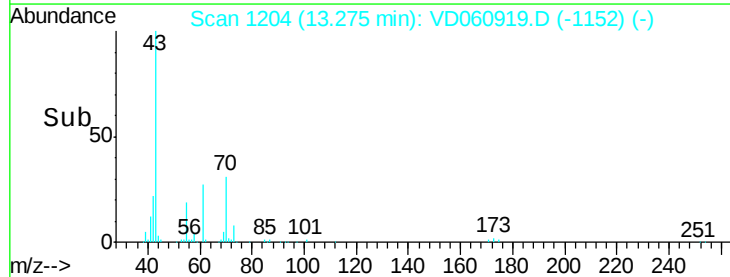
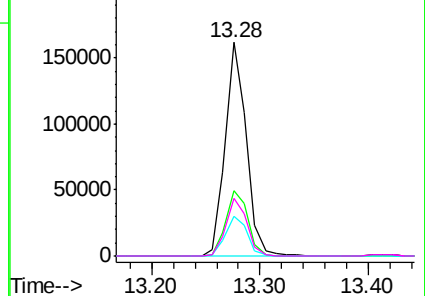


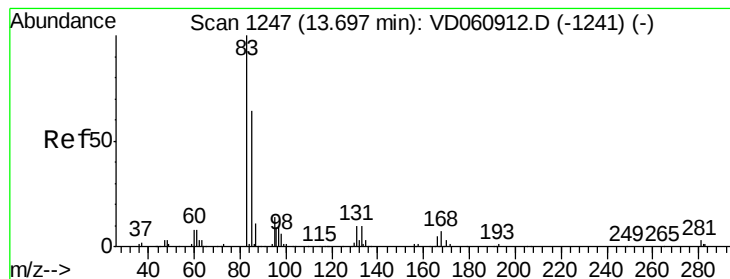
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.961 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

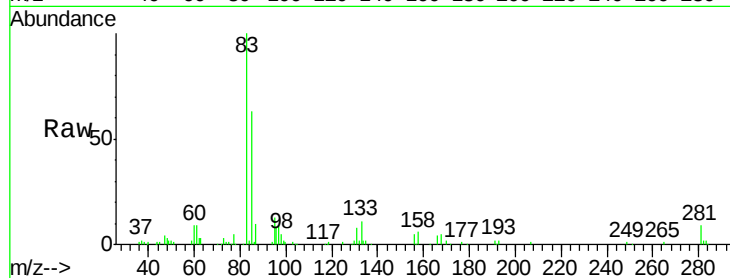
Tot Ion: 83 Resp: 151148

Ion Ratio Lower Upper

83 100

131 8.4 5.1 15.2

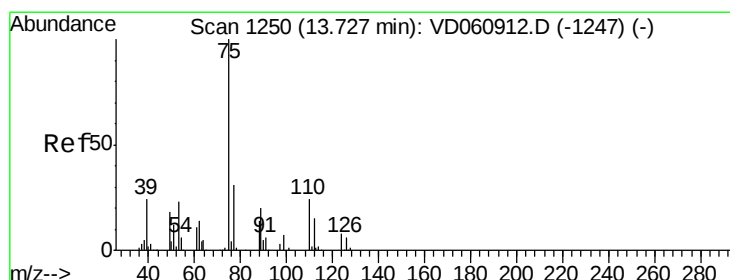
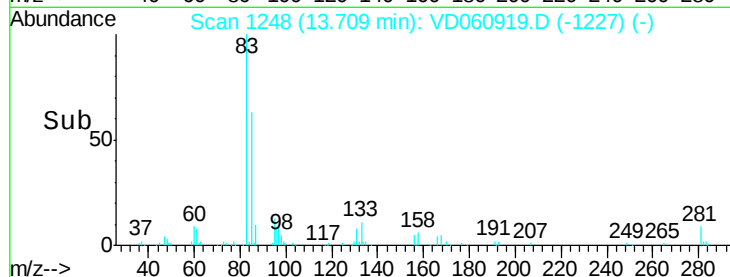
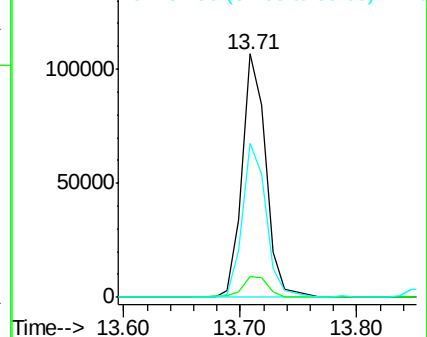
85 63.3 32.3 96.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 19.274 ug/l

RT: 13.75 min Scan# 1252

Delta R.T. 0.02 min

Lab File: VD060919.D

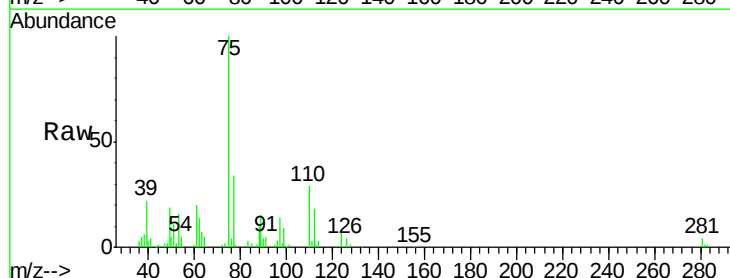
Acq: 4 Mar 2019 13:13

Tgt Ion: 75 Resp: 147579

Ion Ratio Lower Upper

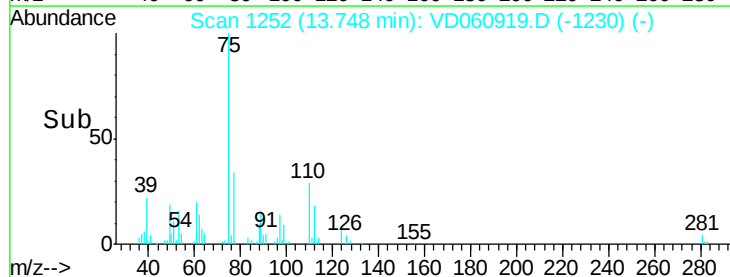
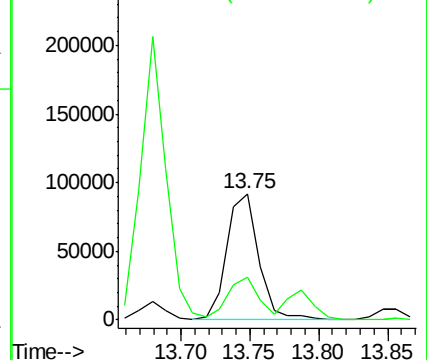
75 100

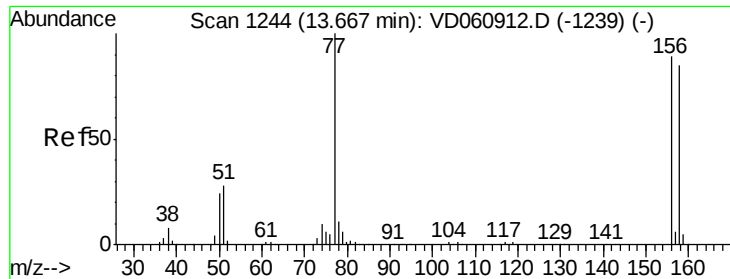
77 33.8 16.2 48.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.545 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

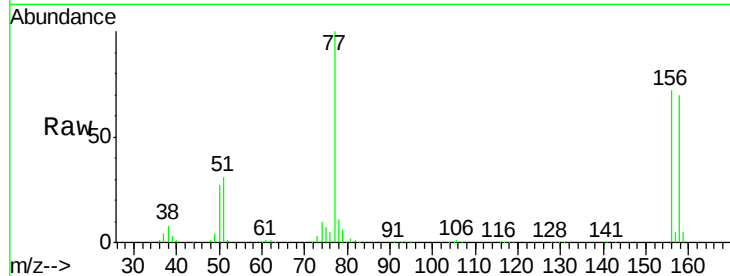
Tot Ion:156 Resp: 205617

Ion Ratio Lower Upper

156 100

77 138.4 56.4 169.2

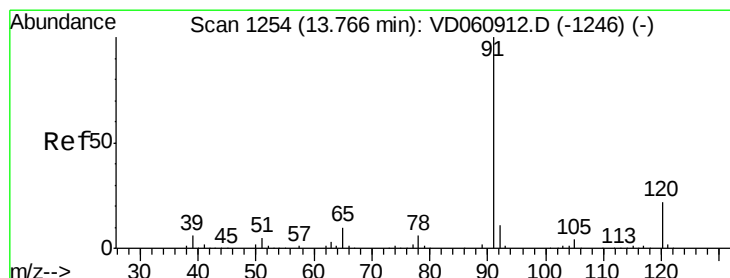
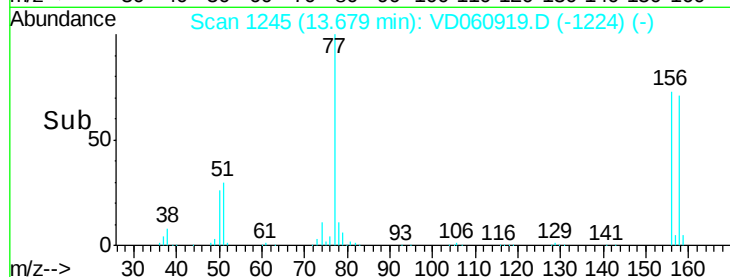
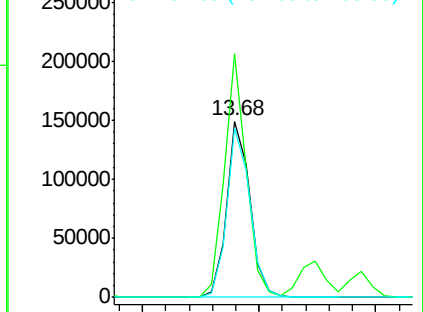
158 96.5 48.0 144.2



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 20.744 ug/l

RT: 13.79 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD060919.D

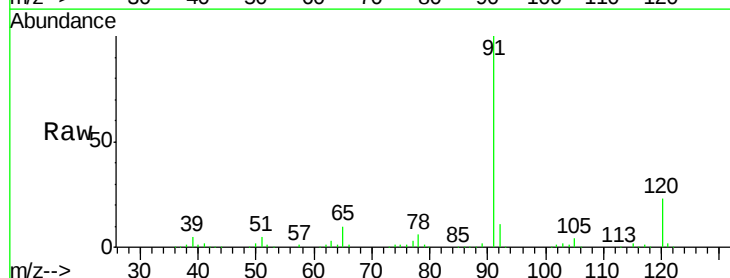
Acq: 4 Mar 2019 13:13

Tgt Ion: 91 Resp: 871363

Ion Ratio Lower Upper

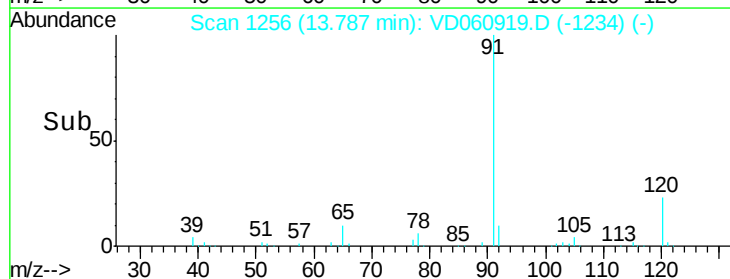
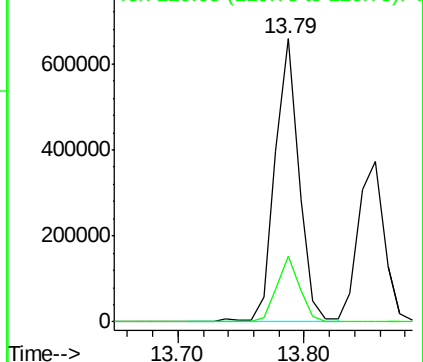
91 100

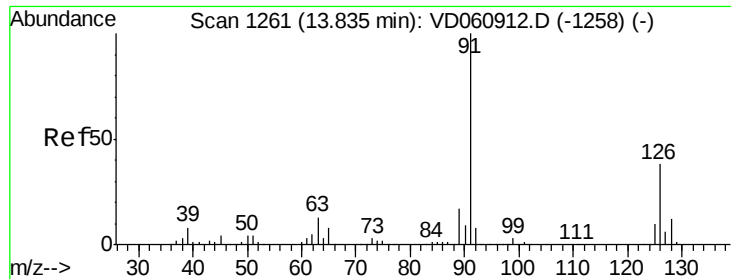
120 23.1 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.927 ug/l

RT: 13.86 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

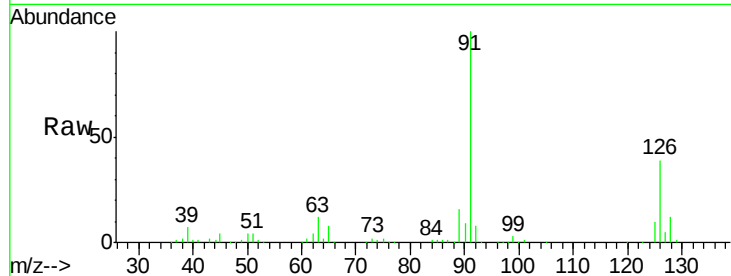
VD0304SBS01

Tot Ion: 91 Resp: 526026

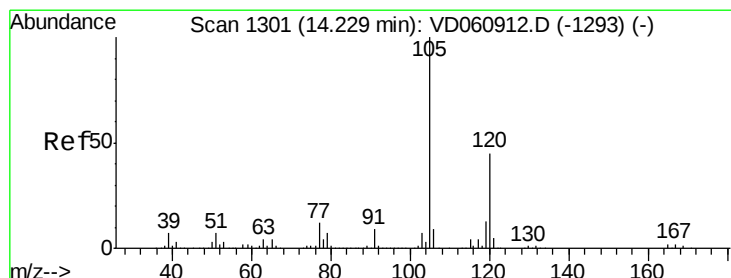
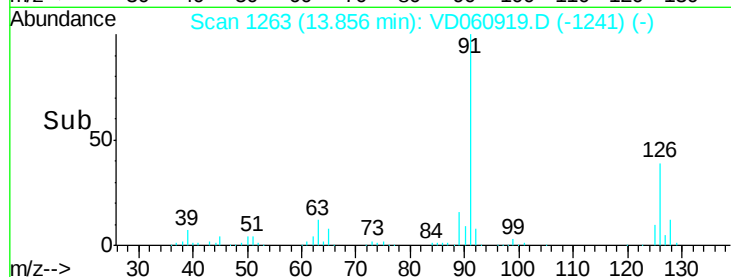
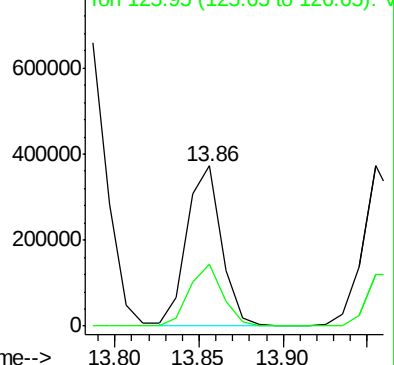
Ion Ratio Lower Upper

91 100

126 38.7 18.8 56.3



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 21.492 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD060919.D

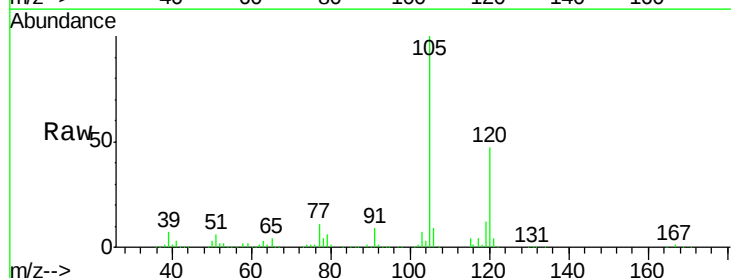
Acq: 4 Mar 2019 13:13

Tgt Ion: 105 Resp: 595091

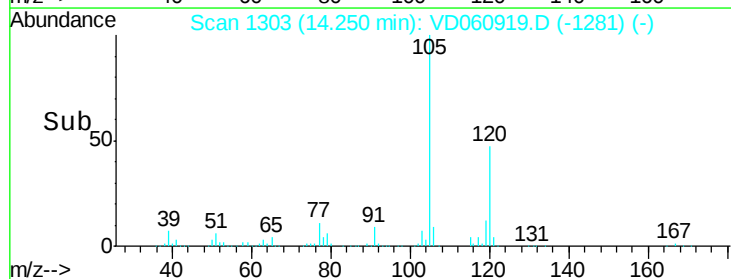
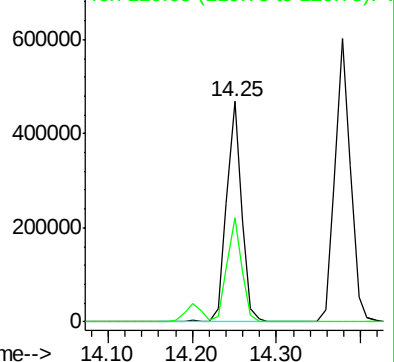
Ion Ratio Lower Upper

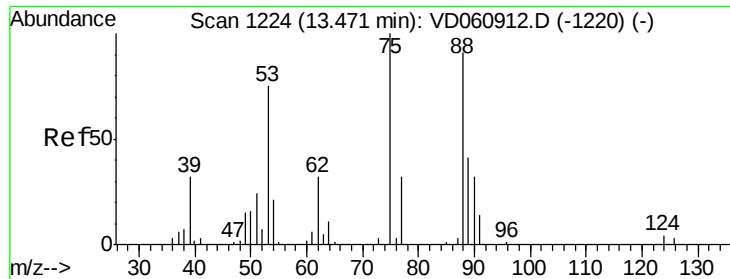
105 100

120 47.1 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.185 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

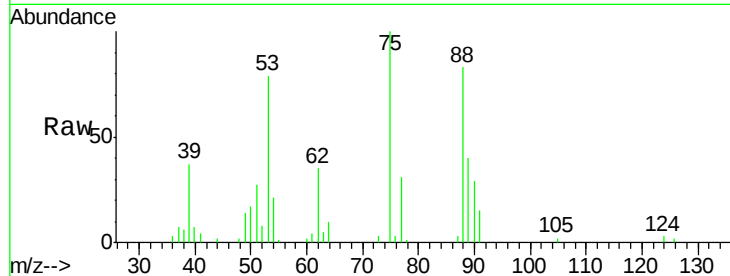
Tot Ion: 75 Resp: 43475

Ion Ratio Lower Upper

75 100

53 79.3 59.8 89.6

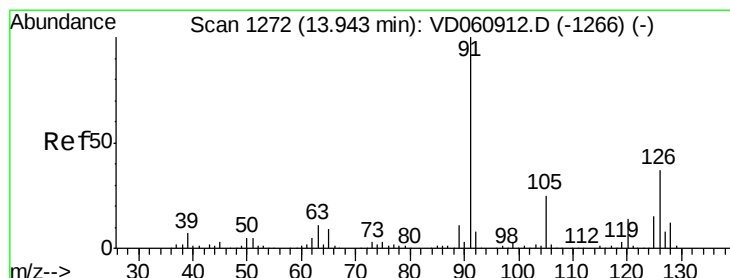
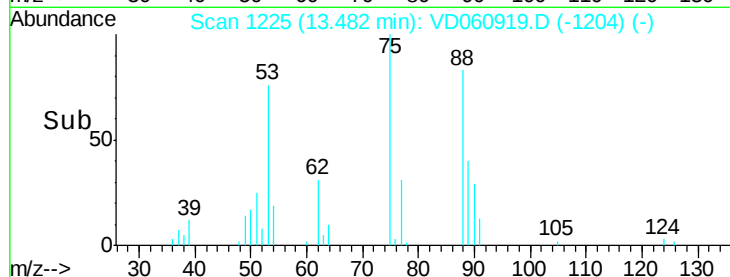
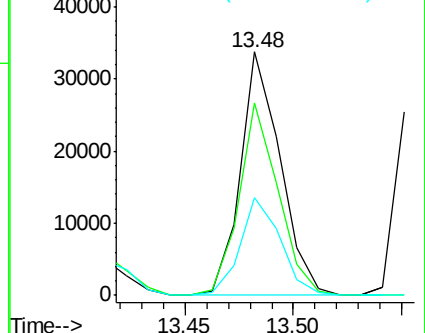
89 39.9 33.0 49.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 21.024 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD060919.D

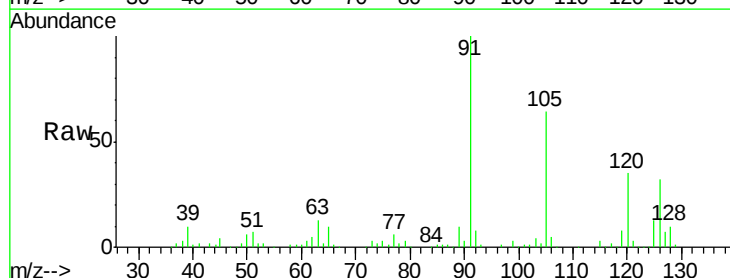
Acq: 4 Mar 2019 13:13

Tgt Ion: 91 Resp: 553204

Ion Ratio Lower Upper

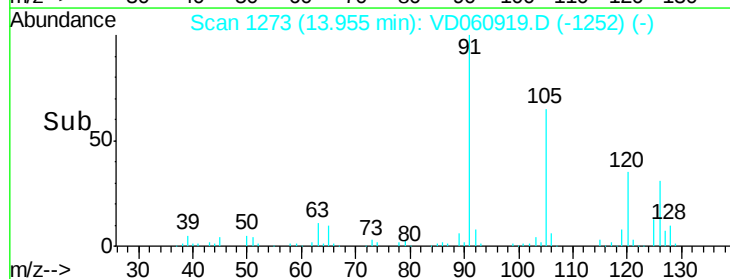
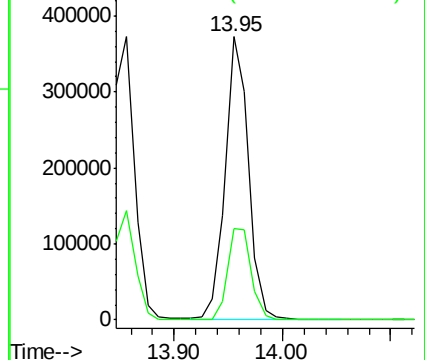
91 100

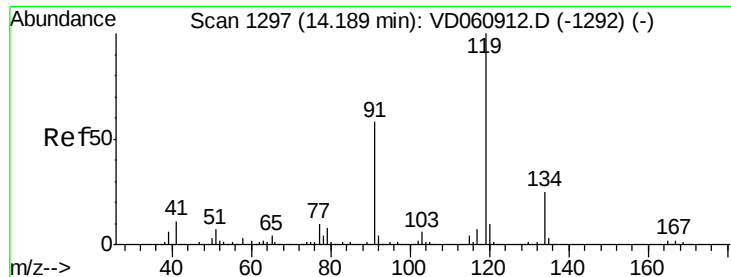
126 32.2 18.4 55.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

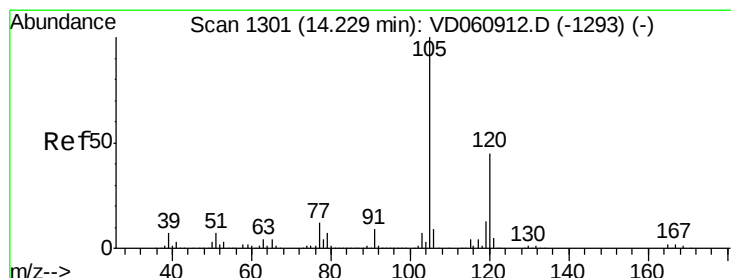
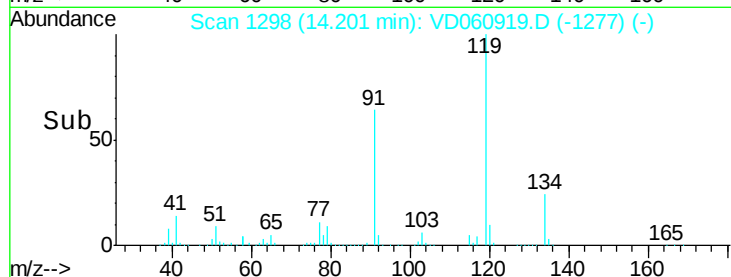
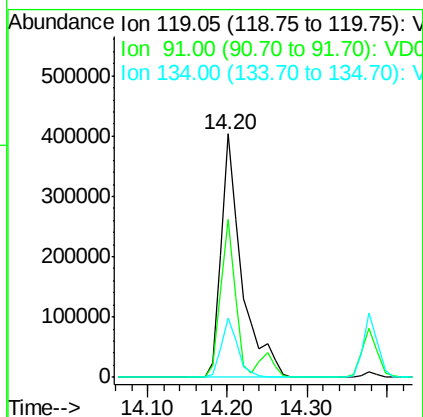
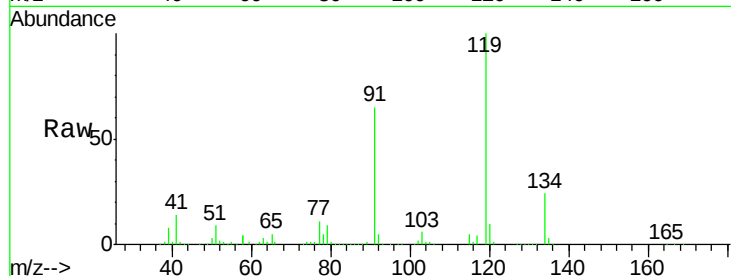




#83
tert-Butylbenzene
Concen: 23.289 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.01 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

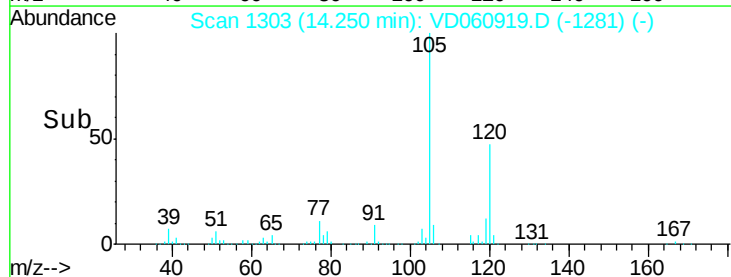
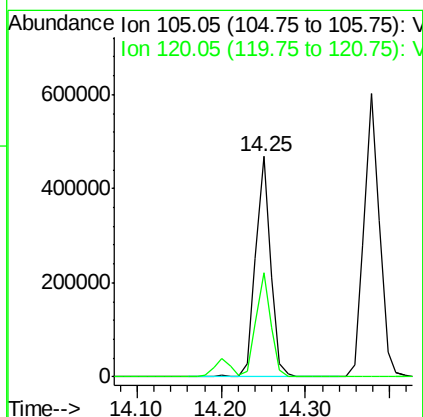
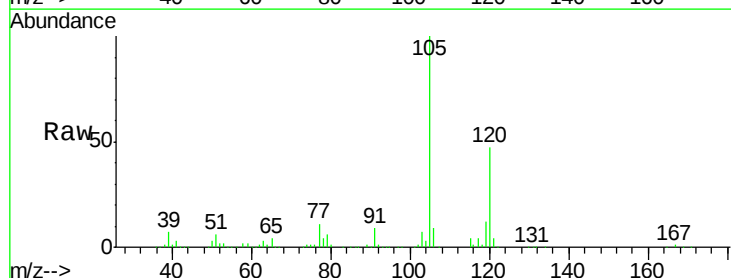
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

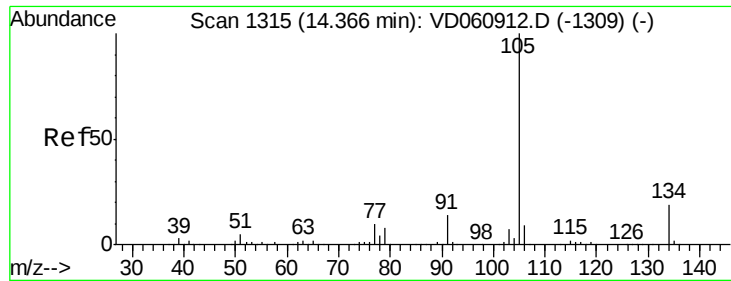
Tot Ion:119 Resp: 738308
Ion Ratio Lower Upper
119 100
91 64.6 28.8 86.5
134 24.1 12.6 37.6



#84
1,2,4-Trimethylbenzene
Concen: 21.492 ug/l
RT: 14.25 min Scan# 1303
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion:105 Resp: 595091
Ion Ratio Lower Upper
105 100
120 47.1 22.7 68.1





#85

sec-Butylbenzene

Concen: 20.998 ug/l

RT: 14.38 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

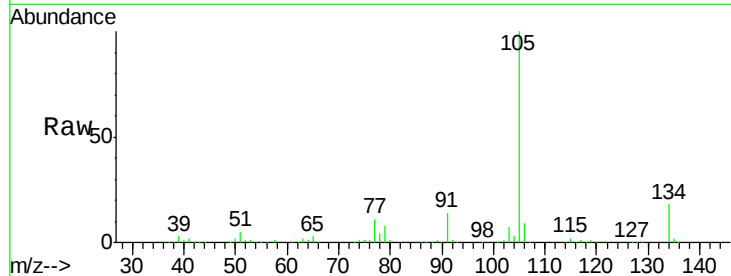
VD0304SBS01

Tot Ion:105 Resp: 771720

Ion Ratio Lower Upper

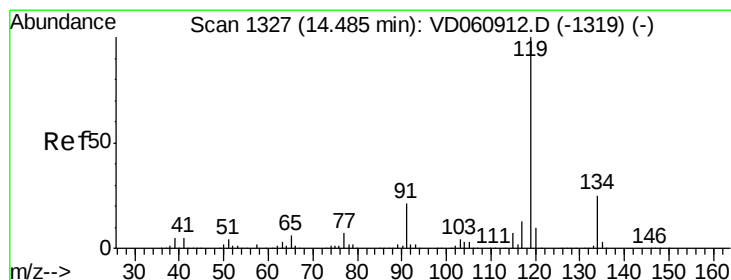
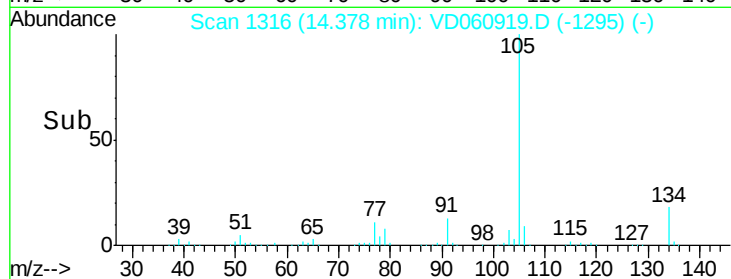
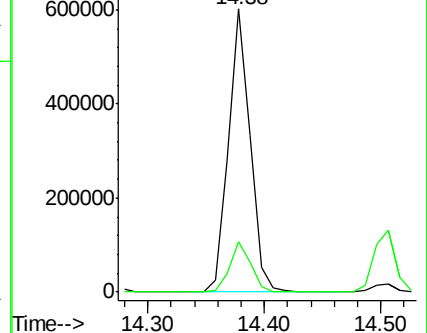
105 100

134 17.9 9.7 28.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 23.161 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. 0.02 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

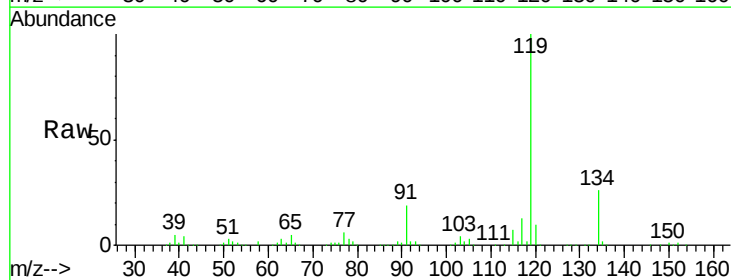
Tgt Ion:119 Resp: 693333

Ion Ratio Lower Upper

119 100

134 25.6 12.4 37.0

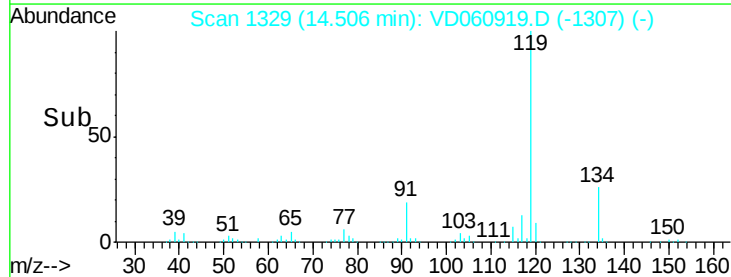
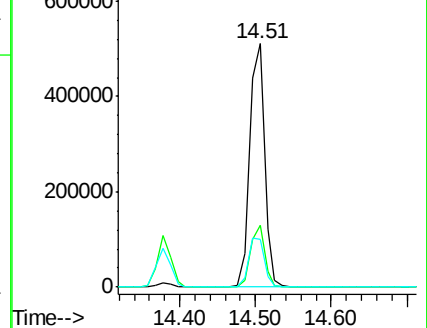
91 19.4 10.8 32.3

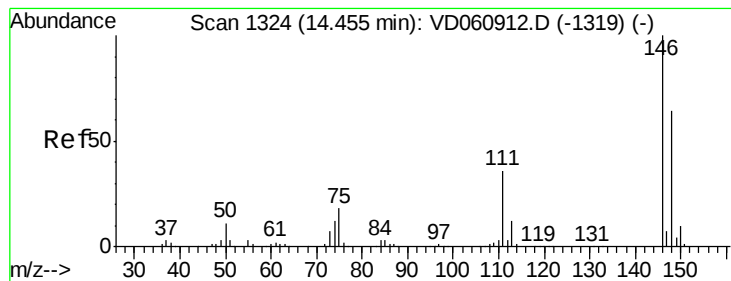


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 22.582 ug/l

RT: 14.47 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0304SBS01

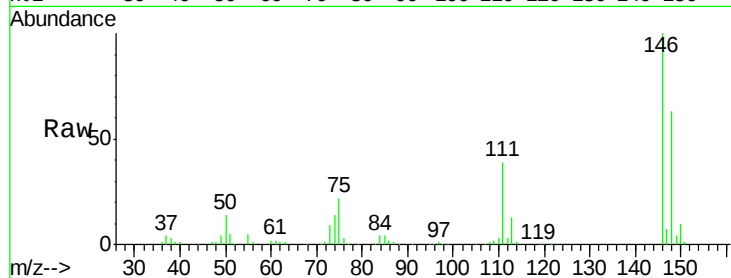
Tot Ion:146 Resp: 366137

Ion Ratio Lower Upper

146 100

111 39.1 18.1 54.1

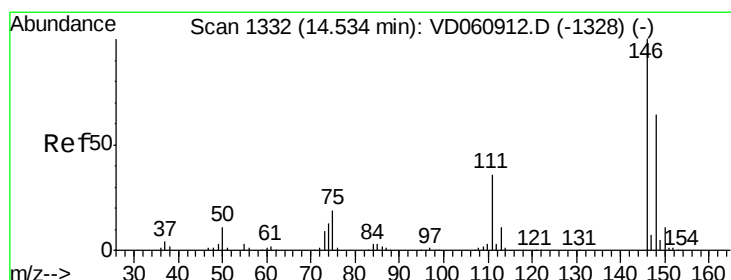
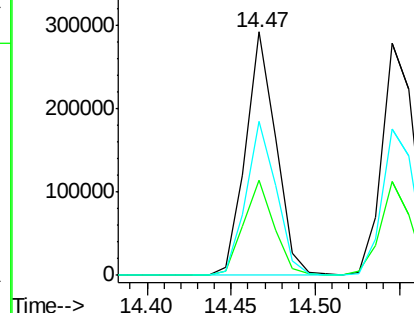
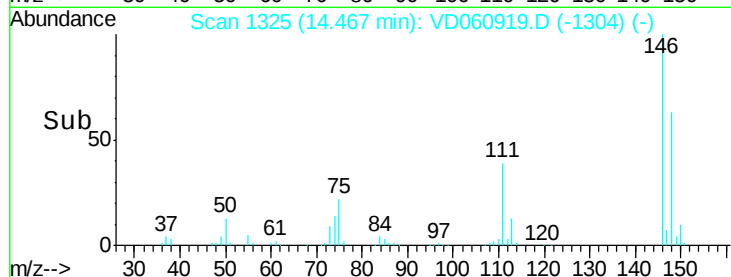
148 63.1 32.1 96.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 23.173 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.01 min

Lab File: VD060919.D

Acq: 4 Mar 2019 13:13

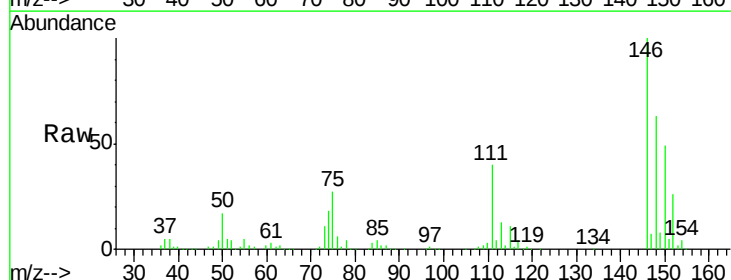
Tgt Ion:146 Resp: 373118

Ion Ratio Lower Upper

146 100

111 40.4 17.9 53.8

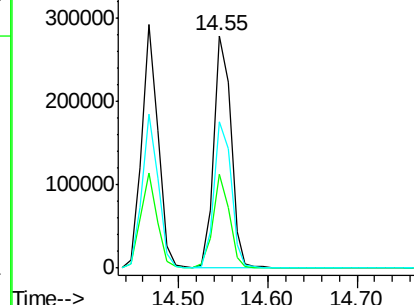
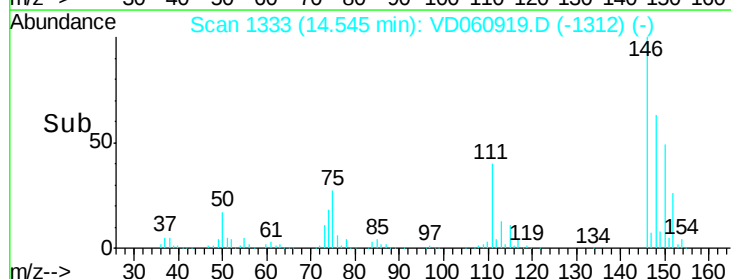
148 63.0 32.0 96.0

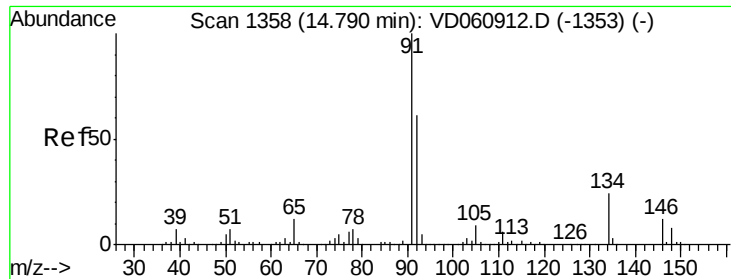


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

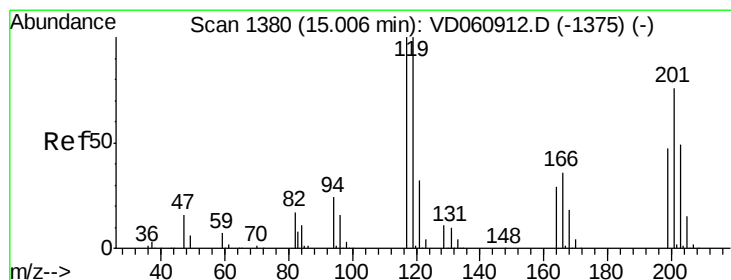
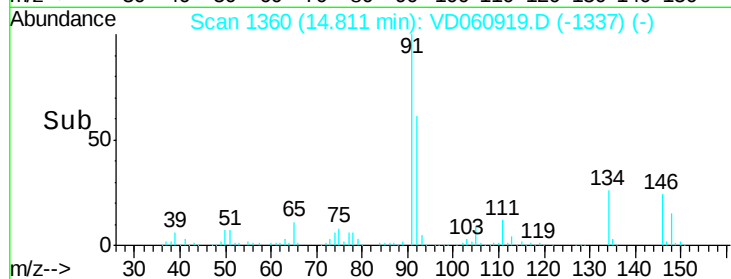
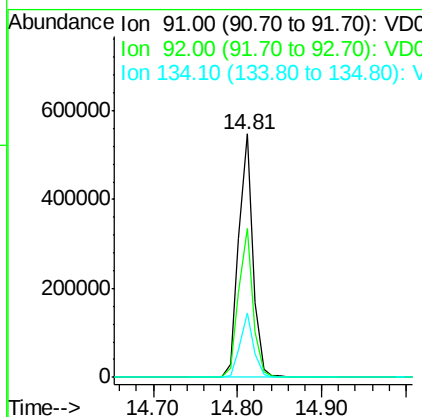
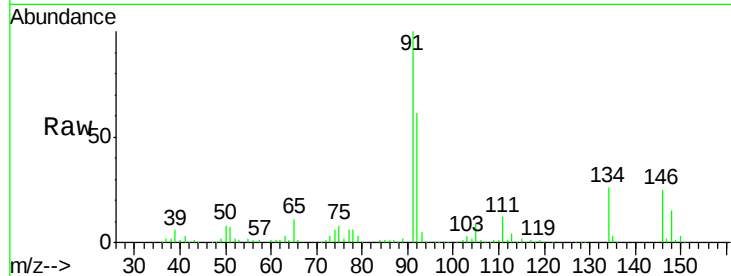




#89
n-Butylbenzene
Concen: 21.956 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

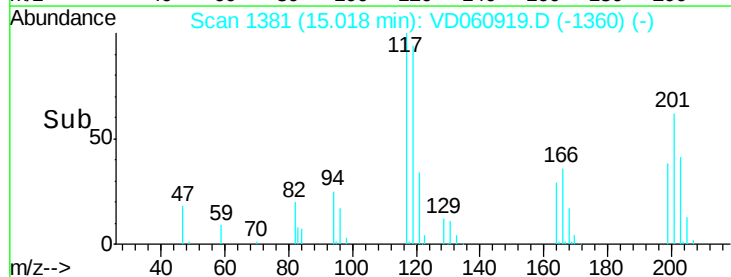
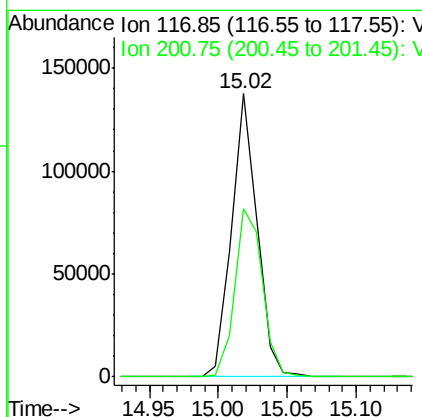
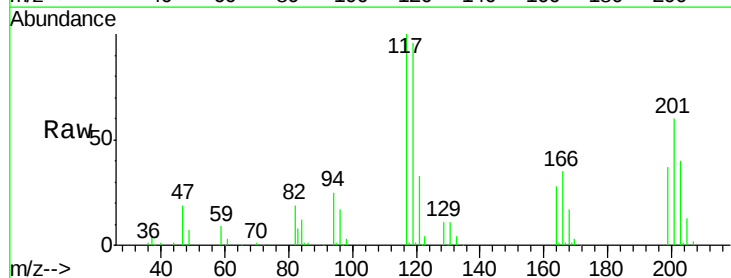
Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

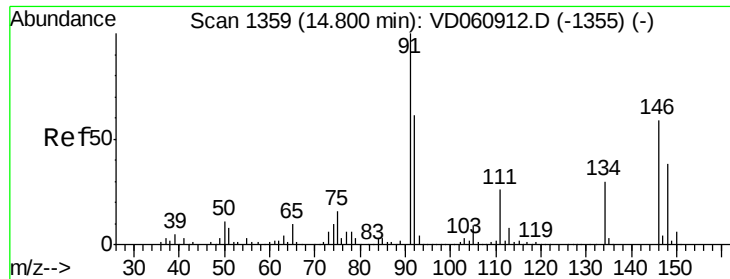
Tot Ion: 91 Resp: 643821
Ion Ratio Lower Upper
91 100
92 61.4 30.6 91.6
134 26.3 12.0 36.0



#90
Hexachloroethane
Concen: 20.545 ug/l
RT: 15.02 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion: 117 Resp: 177366
Ion Ratio Lower Upper
117 100
201 59.6 37.8 113.4

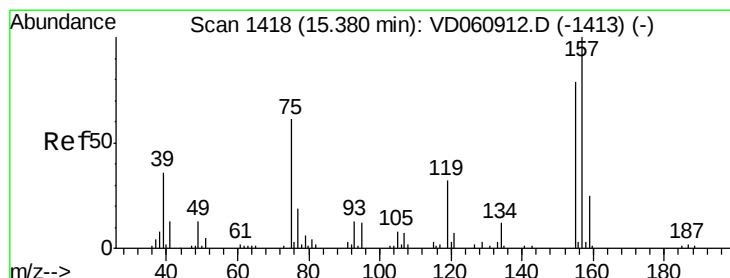
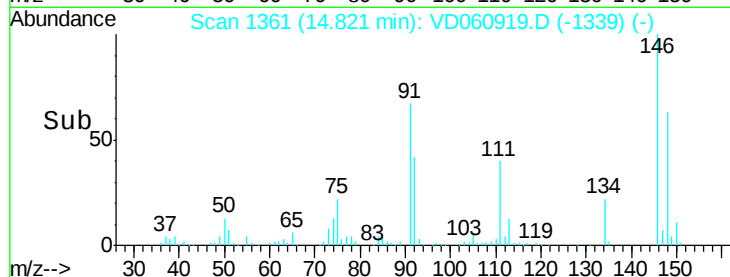
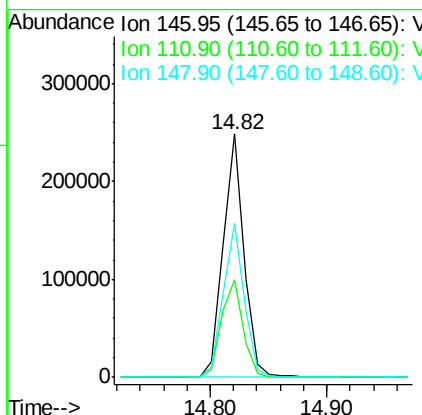
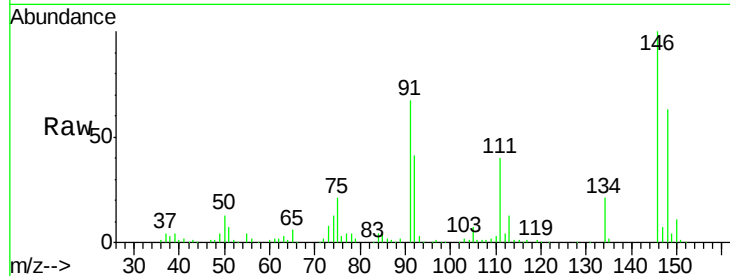




#91
 1,2-Dichlorobenzene
 Concen: 21.900 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

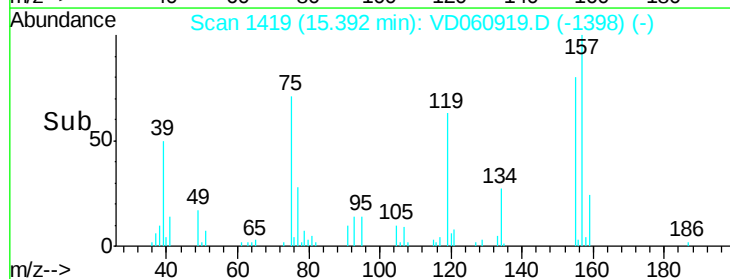
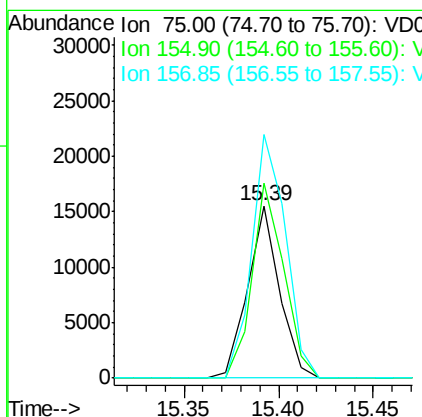
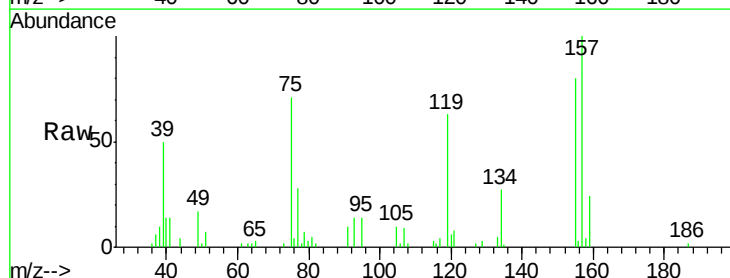
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

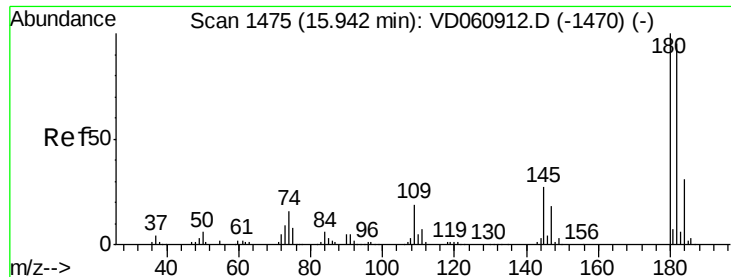
Tot Ion:146 Resp: 307642
 Ion Ratio Lower Upper
 146 100
 111 40.4 22.1 66.3
 148 63.3 32.1 96.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.393 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion: 75 Resp: 18070
 Ion Ratio Lower Upper
 75 100
 155 113.1 65.0 195.0
 157 141.3 81.8 245.3

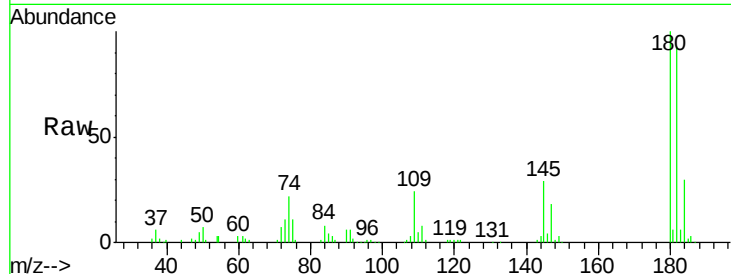




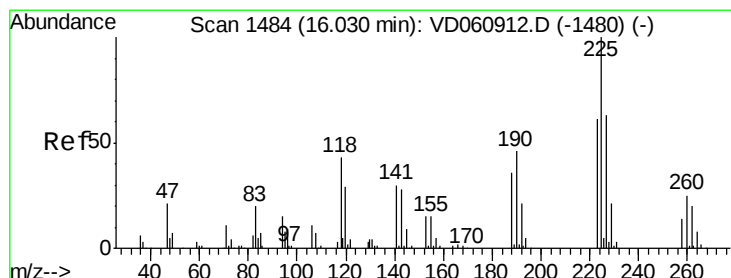
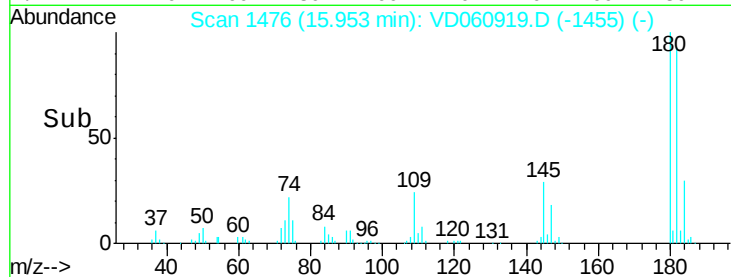
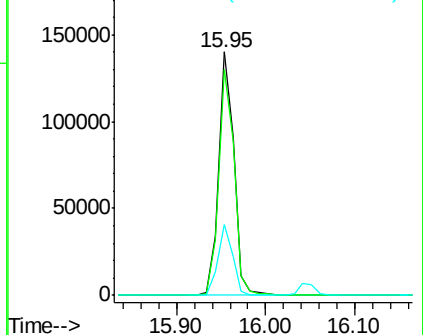
#93
 1,2,4-Trichlorobenzene
 Concen: 20.606 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0304SBS01

Tot Ion:180 Resp: 168080
 Ion Ratio Lower Upper
 180 100
 182 92.9 47.5 142.6
 145 29.0 13.5 40.5

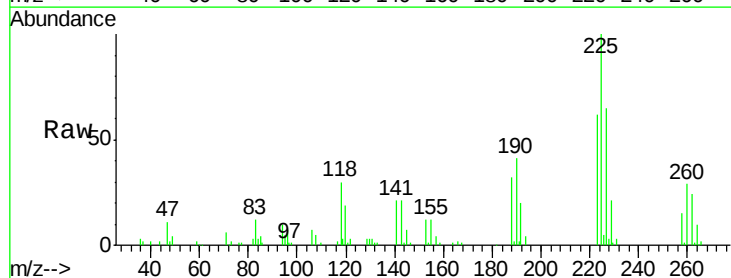


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

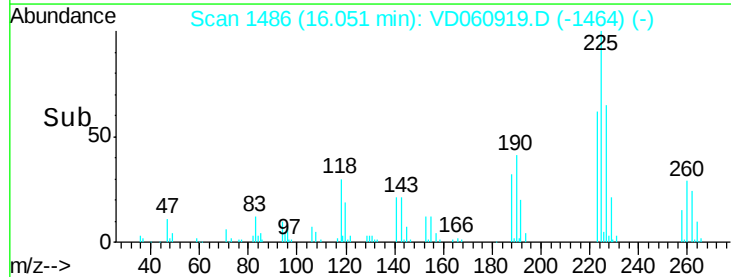
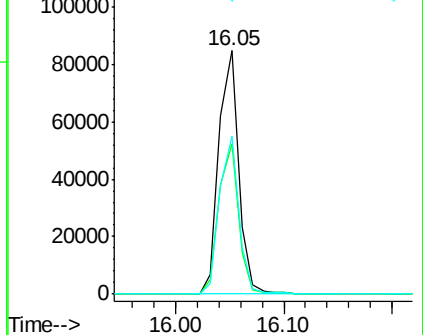


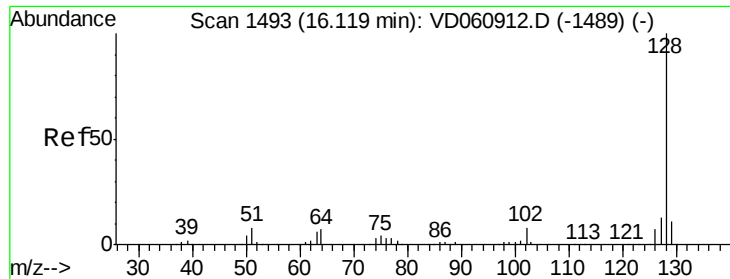
#94
 Hexachlorobutadiene
 Concen: 20.676 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. 0.02 min
 Lab File: VD060919.D
 Acq: 4 Mar 2019 13:13

Tgt Ion:225 Resp: 108251
 Ion Ratio Lower Upper
 225 100
 223 61.5 30.4 91.3
 227 64.9 31.4 94.2



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

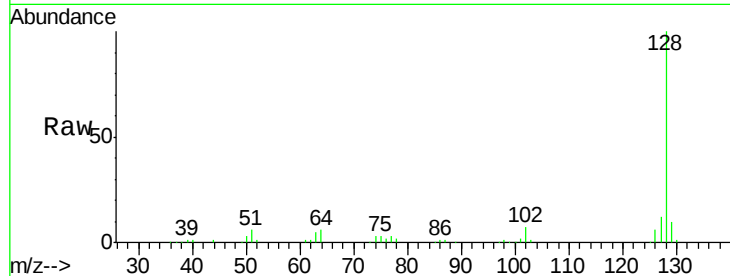




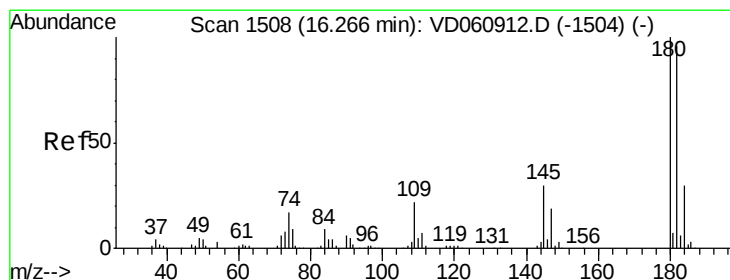
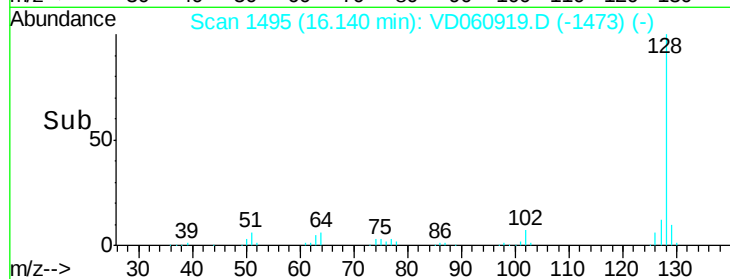
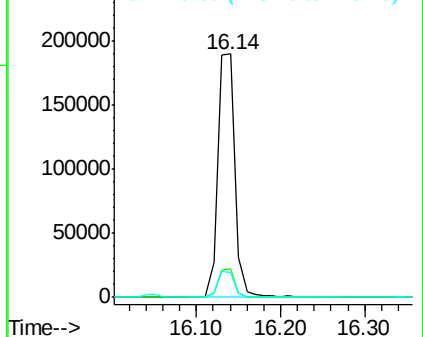
#95
Naphthalene
Concen: 20.957 ug/l
RT: 16.14 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0304SBS01

Tot Ion:128 Resp: 266199
Ion Ratio Lower Upper
128 100
127 12.0 10.1 15.1
129 10.2 8.7 13.1

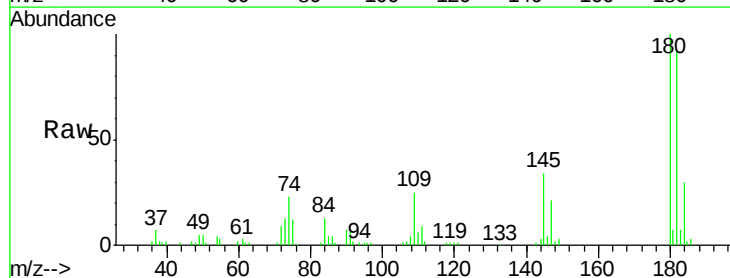


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.098 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD060919.D
Acq: 4 Mar 2019 13:13

Tgt Ion:180 Resp: 87485
Ion Ratio Lower Upper
180 100
182 91.5 48.1 144.4
145 34.4 14.8 44.4



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

