

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD031219\
 Data File : VD061020.D
 Acq On : 12 Mar 2019 13:24
 Operator : VA/AP
 Sample : VD0312SBS01
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Quant Time: Mar 13 04:06:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	608443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1147509	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	903255	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	413533	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	297203	58.68	ug/l	0.01
Spiked Amount	50.000		Recovery	=	117.36%	
35) Dibromofluoromethane	6.93	113	451155	52.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
50) Toluene-d8	10.41	98	1165602	54.50	ug/l	0.01
Spiked Amount	50.000		Recovery	=	109.00%	
62) 4-Bromofluorobenzene	13.55	95	450003	54.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.46%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	142345	23.618	ug/l 99
3) Chloromethane	1.76	50	127756	25.446	ug/l 98
4) Vinyl Chloride	1.86	62	115405	24.876	ug/l 99
5) Bromomethane	2.15	94	18954	20.269	ug/l 87
6) Chloroethane	2.27	64	34387	24.763	ug/l 93
7) Trichlorofluoromethane	2.54	101	155154	23.281	ug/l 99
8) Diethyl Ether	2.88	74	48683	22.143	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.16	101	185413	24.884	ug/l 96
10) Methyl Iodide	3.32	142	203478	21.600	ug/l 98
11) Tert butyl alcohol	4.06	59	40695	126.217	ug/l 95
12) 1,1-Dichloroethene	3.14	96	147785	24.197	ug/l 98
13) Acrolein	3.04	56	44331	95.026	ug/l 98
14) Allyl chloride	3.63	41	221398	22.656	ug/l 98
15) Acrylonitrile	4.20	53	132168	115.984	ug/l 94
16) Acetone	3.23	43	179483	123.930	ug/l 99
17) Carbon Disulfide	3.38	76	472819	22.949	ug/l 99
18) Methyl Acetate	3.65	43	53168	18.654	ug/l # 88
19) Methyl tert-butyl Ether	4.24	73	244760	22.867	ug/l 98
20) Methylene Chloride	3.82	84	179652	24.861	ug/l 94
21) trans-1,2-Dichloroethene	4.22	96	164770	24.925	ug/l 98
22) Diisopropyl ether	5.13	45	455815	22.470	ug/l 99
23) Vinyl Acetate	5.06	43	1241923	119.260	ug/l 99
24) 1,1-Dichloroethane	4.99	63	262986	23.661	ug/l 99
25) 2-Butanone	6.07	43	195781	119.133	ug/l 97
26) 2,2-Dichloropropane	6.03	77	218035	25.129	ug/l 98
27) cis-1,2-Dichloroethene	6.04	96	178641	25.470	ug/l 96
28) Bromochloromethane	6.45	49	96353	20.478	ug/l 92
29) Tetrahydrofuran	6.46	42	91562	102.607	ug/l 99
30) Chloroform	6.67	83	277498	24.090	ug/l 97
31) Cyclohexane	6.96	56	208566	23.272	ug/l 96
32) 1,1,1-Trichloroethane	6.88	97	233571	23.453	ug/l 97
36) 1,1-Dichloropropene	7.15	75	216054	21.843	ug/l 97
37) Ethyl Acetate	6.18	43	85619	18.446	ug/l 97
38) Carbon Tetrachloride	7.12	117	230645	21.169	ug/l 97

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Instrument :
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 ClientSampleId :
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 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	231199	22.542	ug/l	97
40) Benzene	7.46	78	548444	22.190	ug/l	98
41) Methacrylonitrile	6.45	41	100767	18.874	ug/l	95
42) 1,2-Dichloroethane	7.58	62	144729	20.178	ug/l	97
43) Isopropyl Acetate	9.24	43	120068	18.676	ug/l #	99
44) Trichloroethene	8.54	130	190763	22.372	ug/l	94
45) 1,2-Dichloropropane	8.95	63	136982	21.095	ug/l	98
46) Dibromomethane	9.06	93	83476	20.266	ug/l	99
47) Bromodichloromethane	9.38	83	188495	20.280	ug/l	98
48) Methyl methacrylate	9.12	41	69869	19.303	ug/l	100
49) 1,4-Dioxane	9.08	88	13797	376.951	ug/l	90
51) 4-Methyl-2-Pentanone	10.30	43	379630	96.389	ug/l	95
52) Toluene	10.51	92	345673	22.491	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	176951	20.820	ug/l	96
54) cis-1,3-Dichloropropene	10.04	75	211148	20.677	ug/l	98
55) 1,1,2-Trichloroethane	11.19	97	113662	22.207	ug/l	96
56) Ethyl methacrylate	11.04	69	111959	20.898	ug/l	98
57) 1,3-Dichloropropane	11.41	76	162946	21.304	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.86	63	248593	87.662	ug/l	96
59) 2-Hexanone	11.54	43	311005	107.951	ug/l	98
60) Dibromochloromethane	11.68	129	158560	21.050	ug/l	99
61) 1,2-Dibromoethane	11.80	107	121524	20.410	ug/l	99
64) Tetrachloroethene	11.26	164	139784	22.925	ug/l	98
65) Chlorobenzene	12.40	112	384196	21.697	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.51	131	155510	24.637	ug/l	99
67) Ethyl Benzene	12.53	91	694167	26.332	ug/l	99
68) m/p-Xylenes	12.67	106	524591	50.700	ug/l	93
69) o-Xylene	13.05	106	249506	24.532	ug/l	98
70) Styrene	13.07	104	384148	23.131	ug/l	98
71) Bromoform	13.24	173	84122	20.659	ug/l	98
73) Isopropylbenzene	13.41	105	660669	22.168	ug/l	100
74) N-amyl acetate	13.27	43	165599	19.734	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	118420	20.366	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	125645	21.119	ug/l	99
77) Bromobenzene	13.67	156	171048	22.484	ug/l	93
78) n-propylbenzene	13.78	91	798409	22.884	ug/l	96
79) 2-Chlorotoluene	13.84	91	434880	22.640	ug/l	98
80) 1,3,5-Trimethylbenzene	14.24	105	481280	21.272	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	37019	21.105	ug/l	95
82) 4-Chlorotoluene	13.95	91	465139	20.484	ug/l	96
83) tert-Butylbenzene	14.19	119	559205	22.585	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	481280	21.272	ug/l	97
85) sec-Butylbenzene	14.37	105	692490	22.909	ug/l	98
86) p-Isopropyltoluene	14.49	119	575193	23.280	ug/l	100
87) 1,3-Dichlorobenzene	14.46	146	302470	22.266	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	293787	22.007	ug/l	98
89) n-Butylbenzene	14.80	91	496689	20.933	ug/l	97
90) Hexachloroethane	15.01	117	145414	20.842	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	249022	21.989	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	13142	18.756	ug/l	97

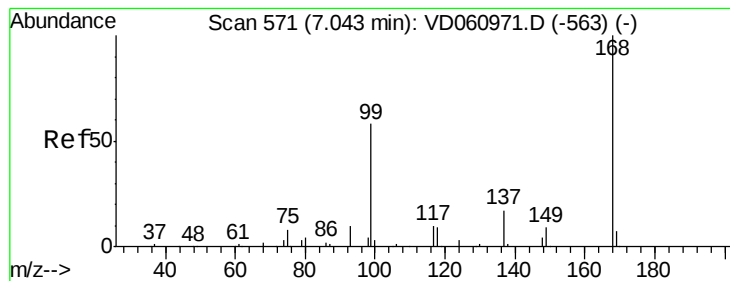
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD031219\
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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	110514	21.036	ug/l	97
94) Hexachlorobutadiene	16.04	225	81293	20.457	ug/l	97
95) Naphthalene	16.12	128	157431	19.719	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	55385	21.345	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

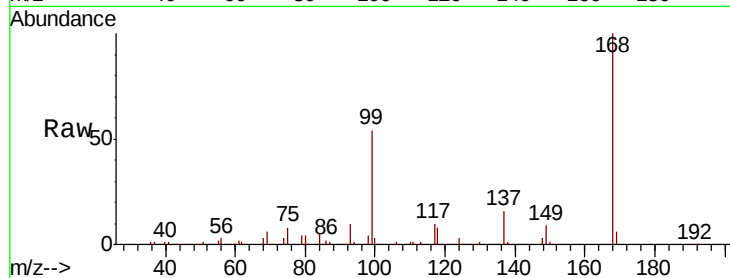
VD0312SBS01

Tgt Ion:168 Resp: 608443

Ion Ratio Lower Upper

168 100

99 54.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

200000

150000

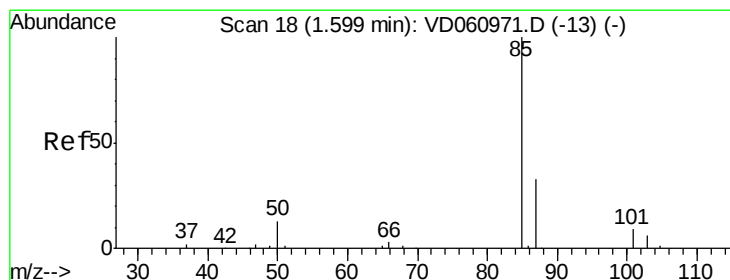
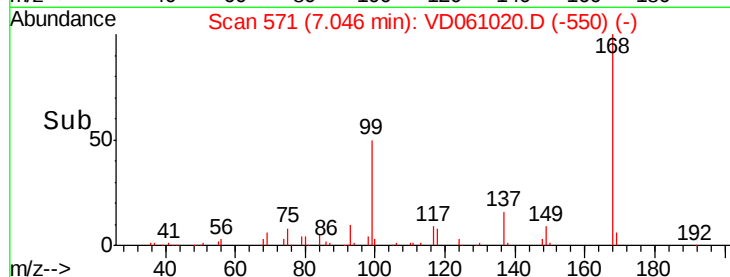
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 23.618 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.01 min

Lab File: VD061020.D

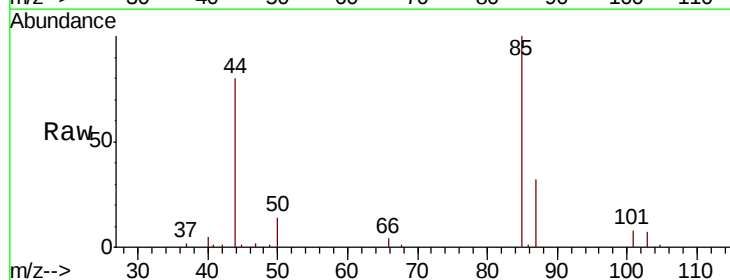
Acq: 12 Mar 2019 13:24

Tgt Ion: 85 Resp: 142345

Ion Ratio Lower Upper

85 100

87 32.2 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

1.59

60000

50000

40000

30000

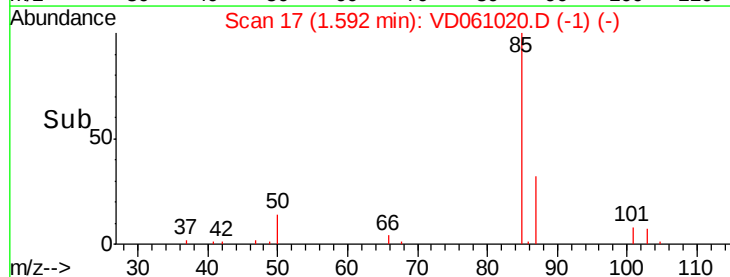
20000

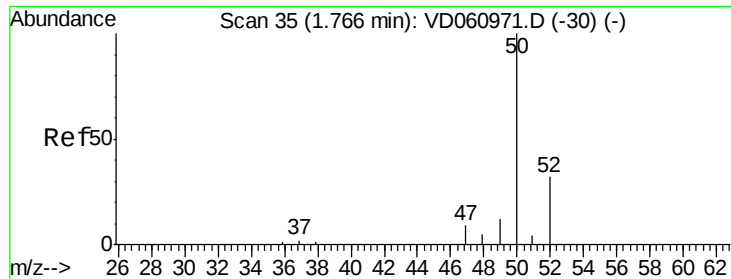
10000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 25.446 ug/l

RT: 1.76 min Scan# 34

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

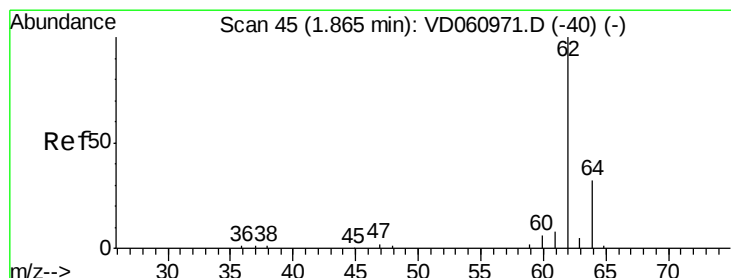
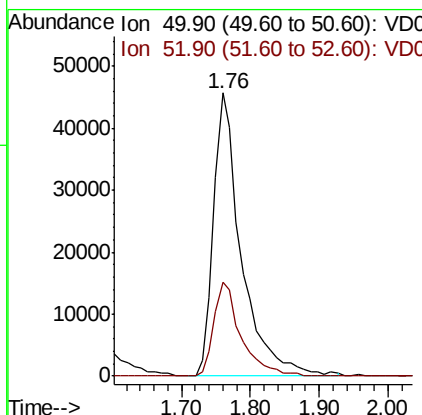
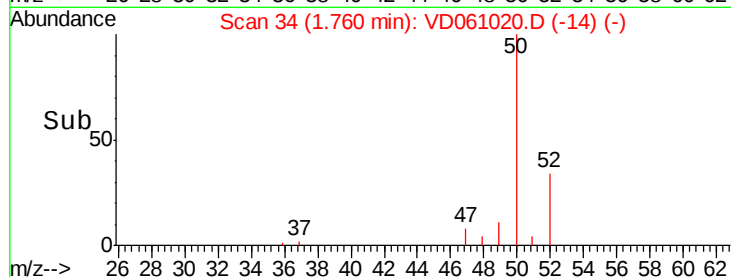
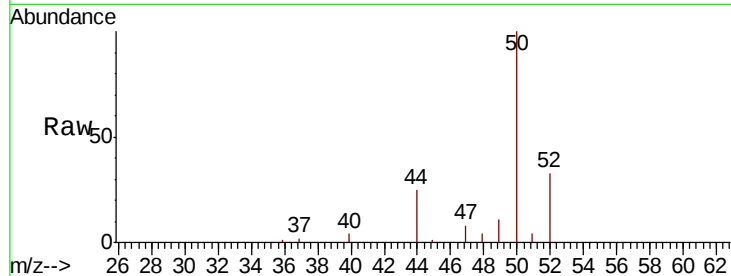
VD0312SBS01

Tgt Ion: 50 Resp: 127756

Ion Ratio Lower Upper

50 100

52 33.4 25.8 38.8



#4

Vinyl Chloride

Concen: 24.876 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061020.D

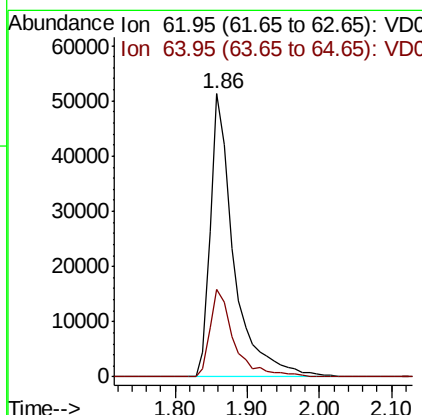
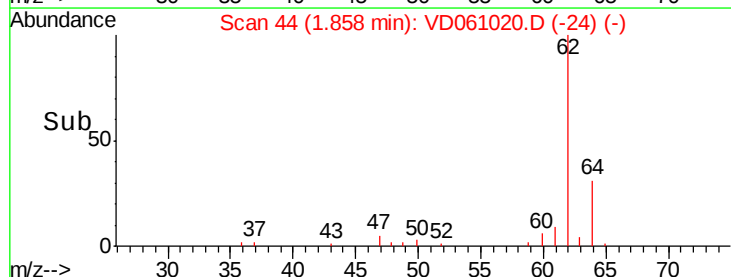
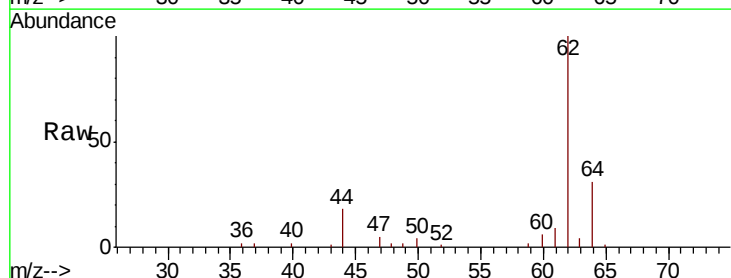
Acq: 12 Mar 2019 13:24

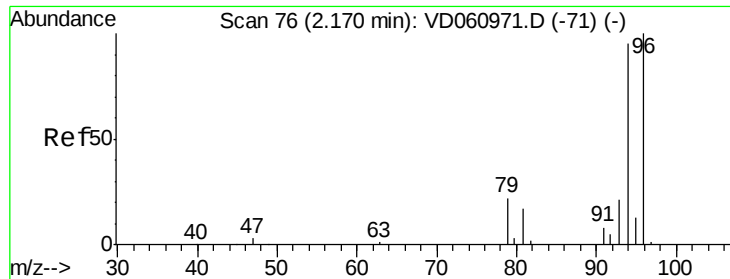
Tgt Ion: 62 Resp: 115405

Ion Ratio Lower Upper

62 100

64 30.9 25.2 37.8





#5

Bromomethane

Concen: 20.269 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.02 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

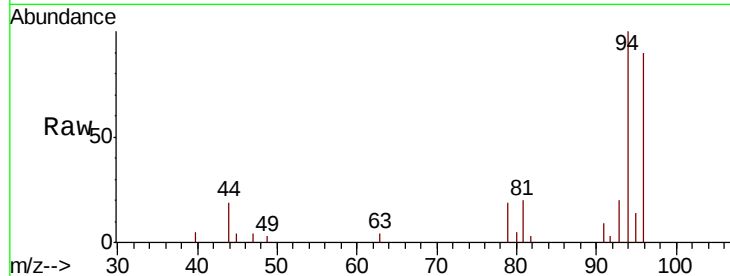
Tgt Ion: 94 Resp: 18954

Ion Ratio Lower Upper

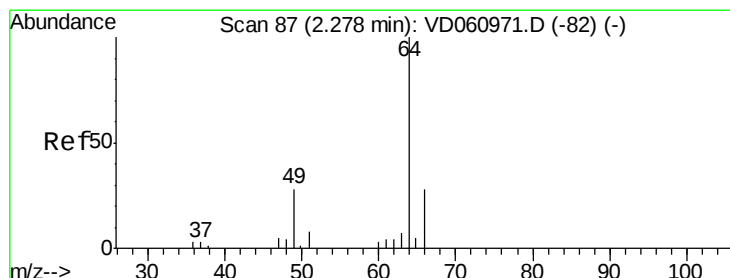
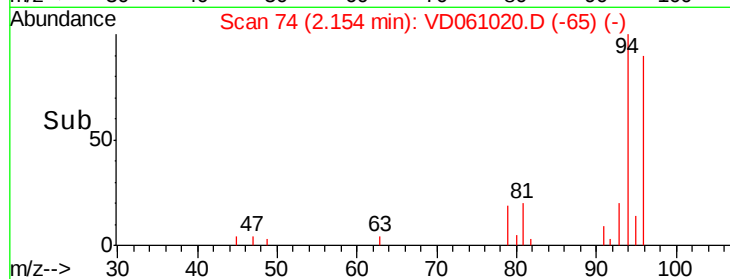
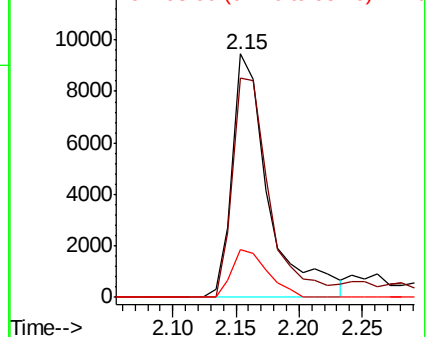
94 100

96 90.1 84.0 126.0

93 19.7 17.3 25.9



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 24.763 ug/l

RT: 2.27 min Scan# 86

Delta R.T. -0.01 min

Lab File: VD061020.D

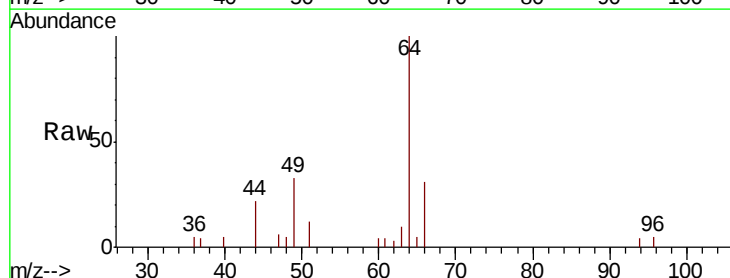
Acq: 12 Mar 2019 13:24

Tgt Ion: 64 Resp: 34387

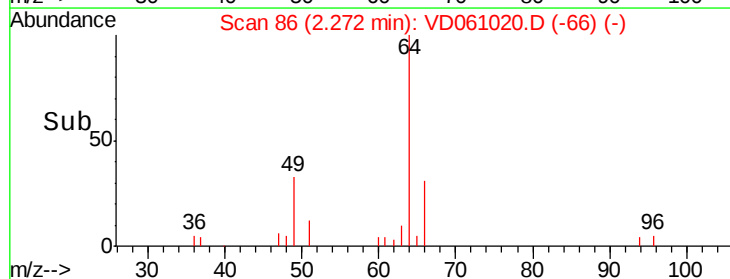
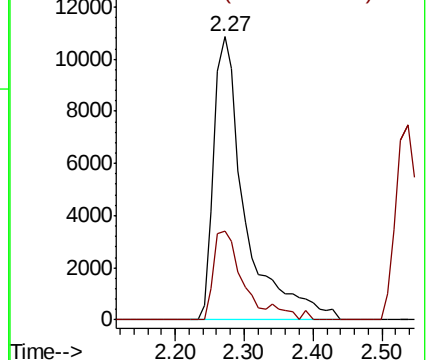
Ion Ratio Lower Upper

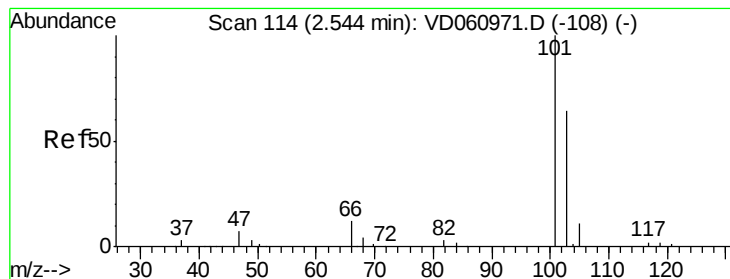
64 100

66 31.3 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 23.281 ug/l

RT: 2.54 min Scan# 113

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

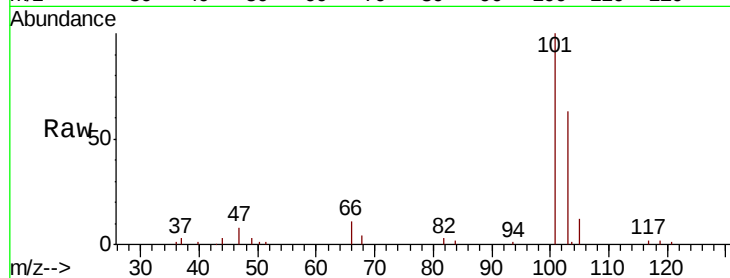
VD0312SBS01

Tgt Ion:101 Resp: 155154

Ion Ratio Lower Upper

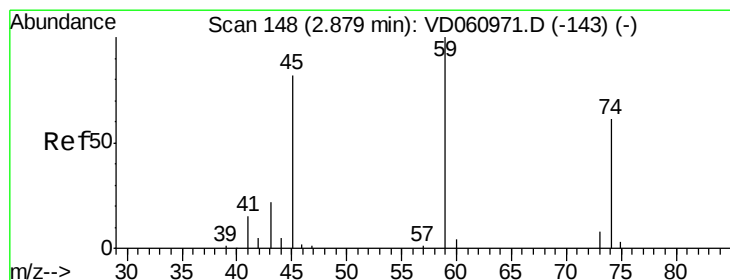
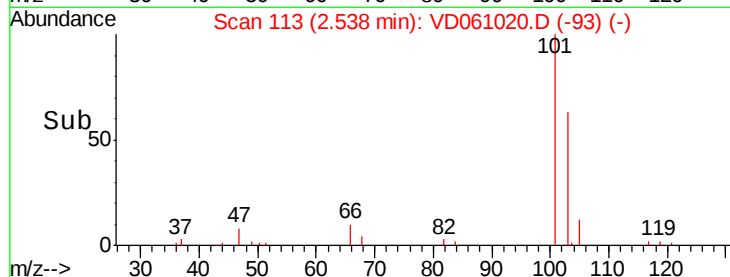
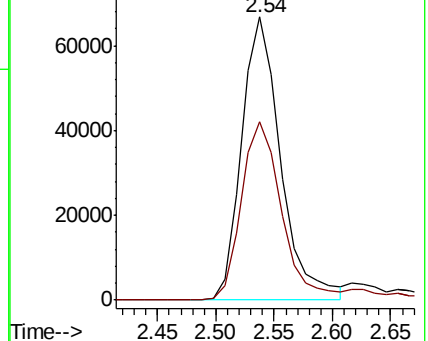
101 100

103 63.2 51.2 76.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 22.143 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.00 min

Lab File: VD061020.D

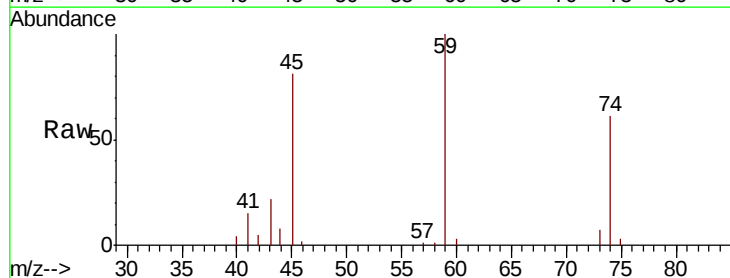
Acq: 12 Mar 2019 13:24

Tgt Ion: 74 Resp: 48683

Ion Ratio Lower Upper

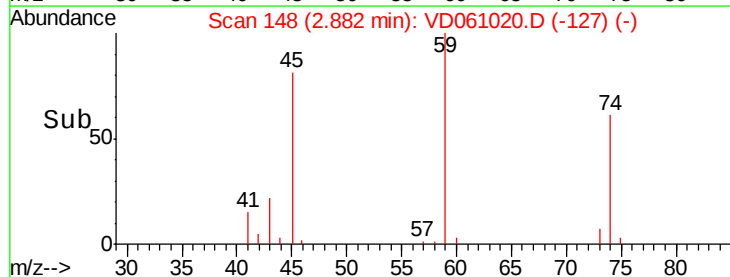
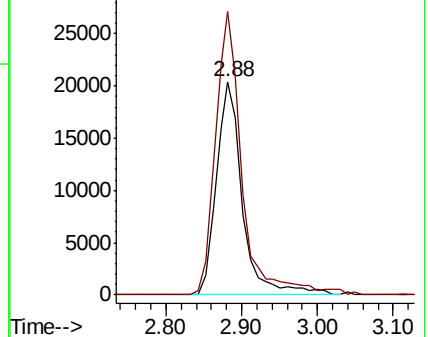
74 100

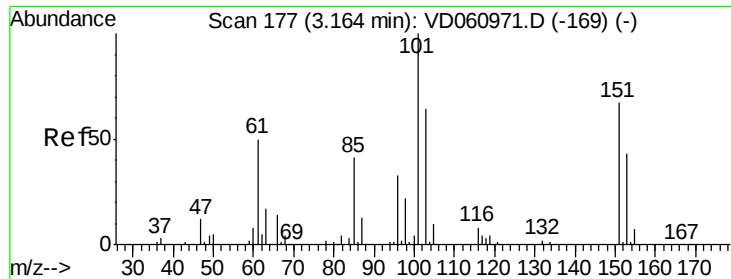
45 132.8 67.0 201.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.884 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

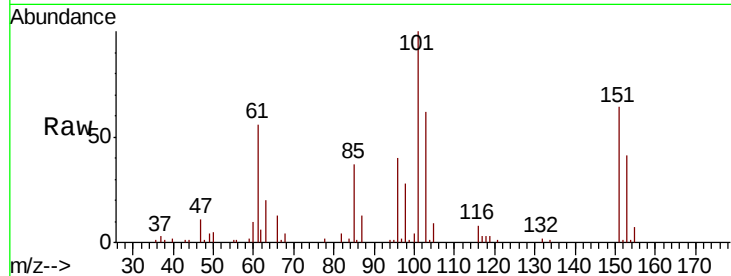
Tgt Ion:101 Resp: 185413

Ion Ratio Lower Upper

101 100

85 36.7 32.5 48.7

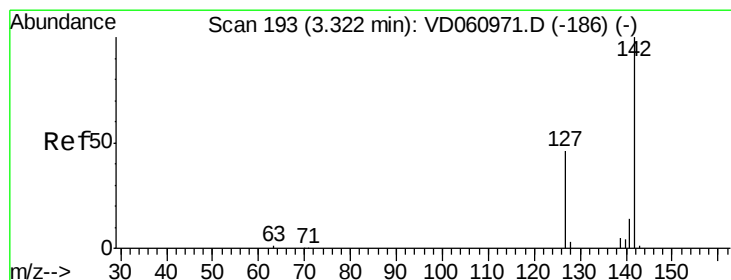
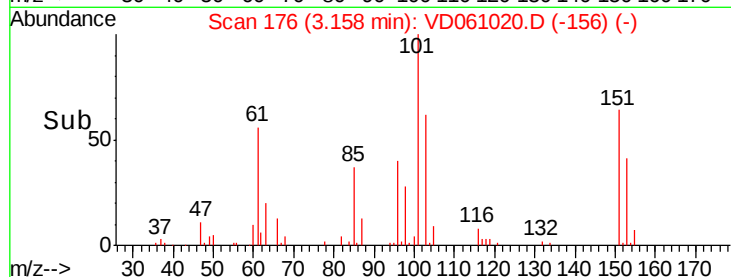
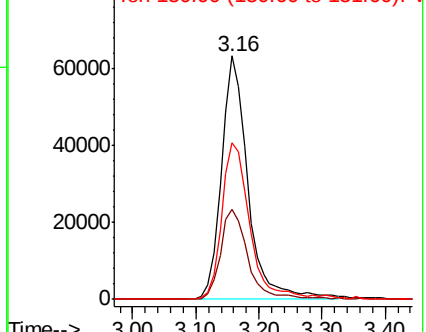
151 64.2 53.3 79.9



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: 21.600 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

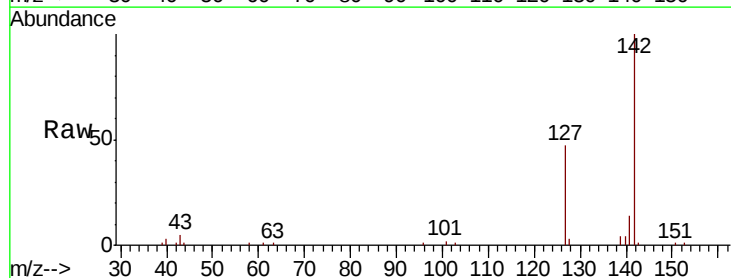
Tgt Ion:142 Resp: 203478

Ion Ratio Lower Upper

142 100

127 47.4 36.8 55.2

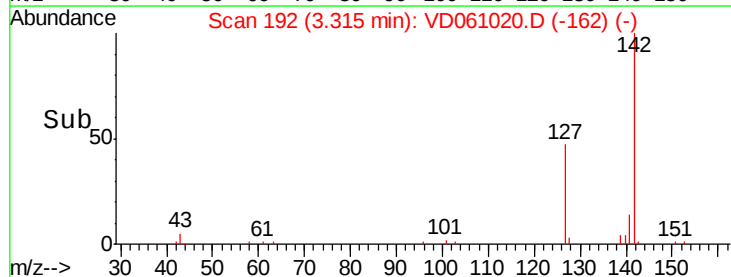
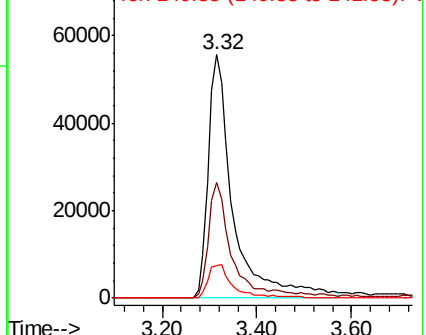
141 13.6 11.2 16.8

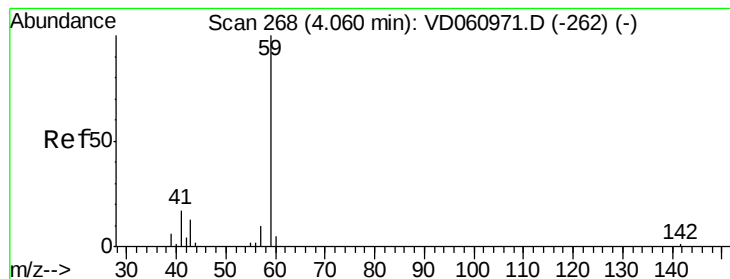


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



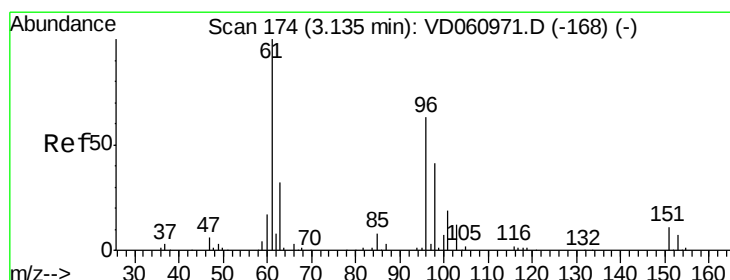
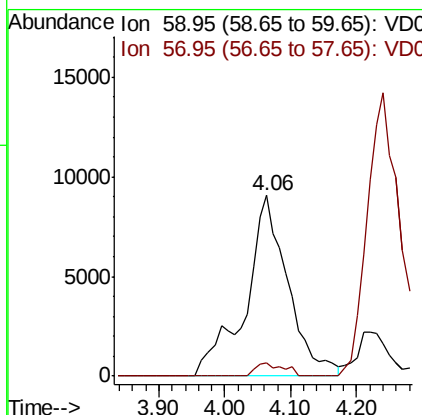
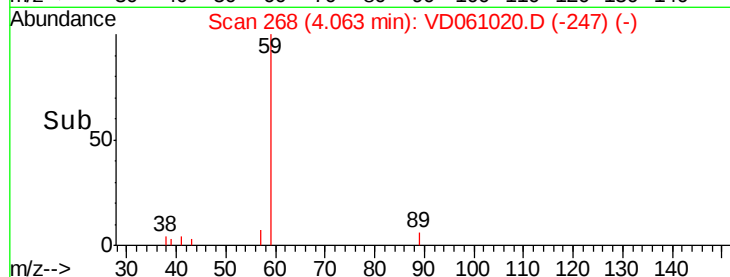
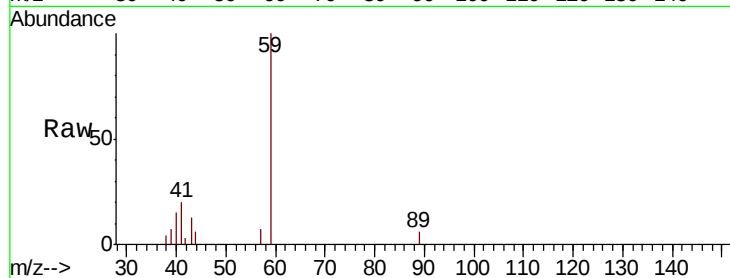


#11

Tert butyl alcohol
Concen: 126.217 ug/l
RT: 4.06 min Scan# 268
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

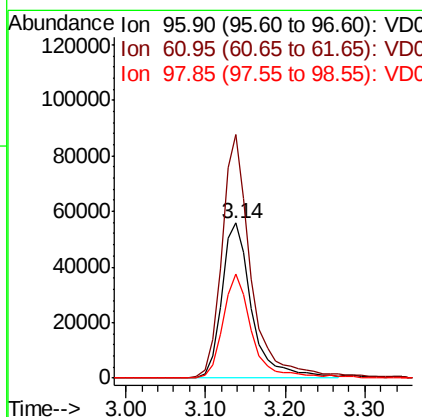
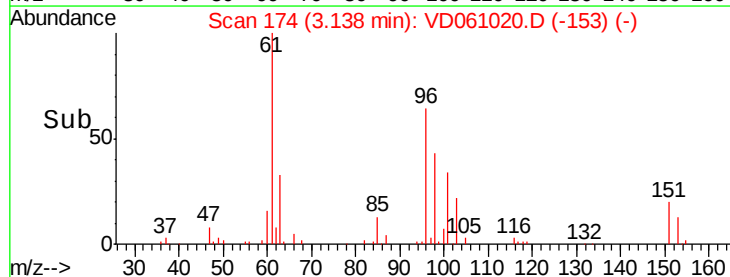
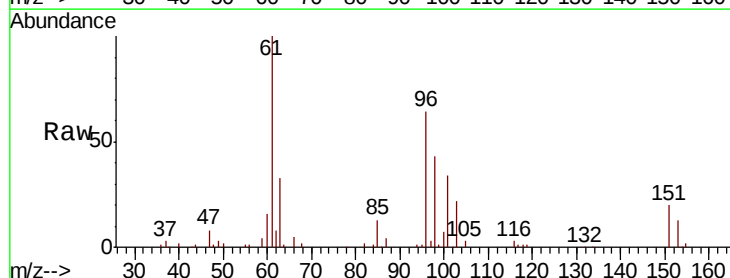
Tgt Ion: 59 Resp: 40695
Ion Ratio Lower Upper
59 100
57 7.1 7.1 10.7

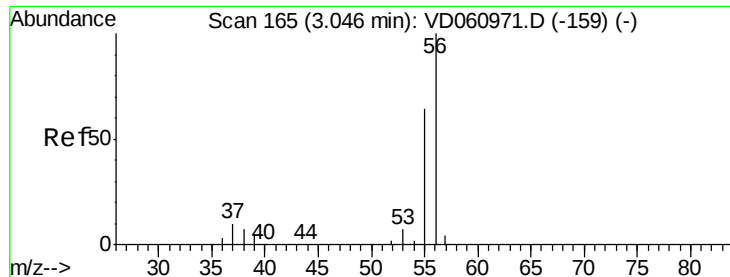


#12

1,1-Dichloroethene
Concen: 24.197 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 96 Resp: 147785
Ion Ratio Lower Upper
96 100
61 157.1 127.1 190.7
98 67.4 51.5 77.3





#13

Acrolein

Concen: 95.026 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

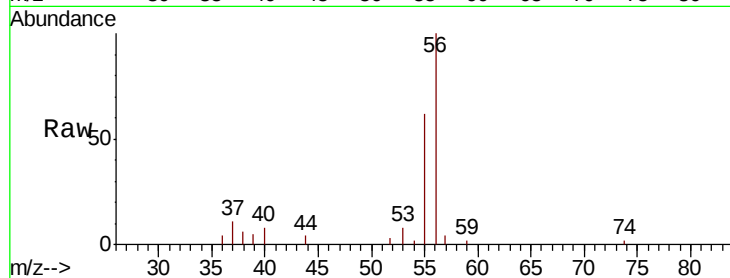
VD0312SBS01

Tgt Ion: 56 Resp: 44331

Ion Ratio Lower Upper

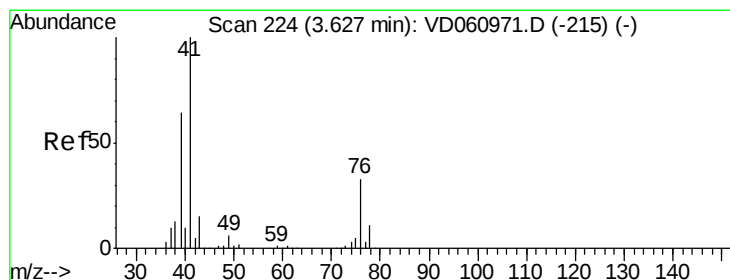
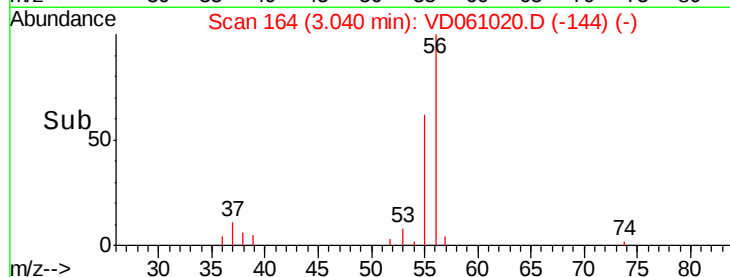
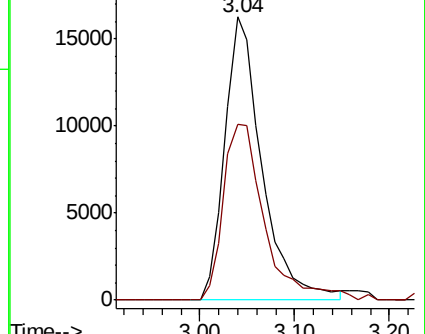
56 100

55 62.1 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.656 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

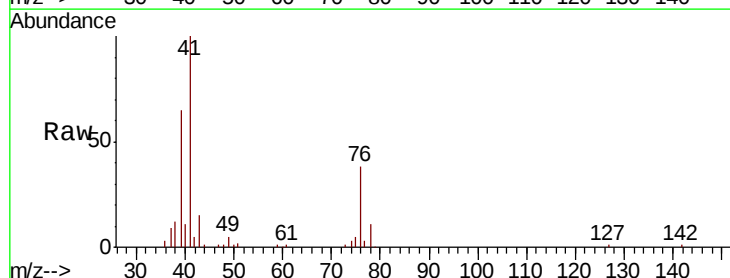
Tgt Ion: 41 Resp: 221398

Ion Ratio Lower Upper

41 100

39 64.9 51.1 76.7

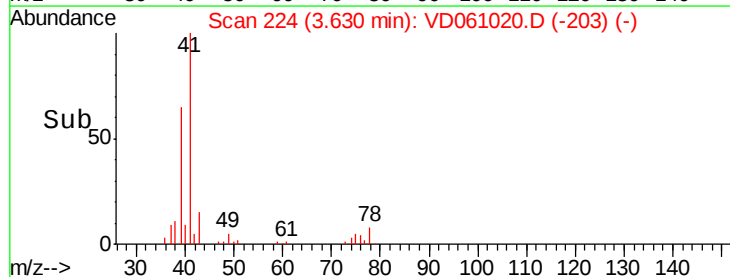
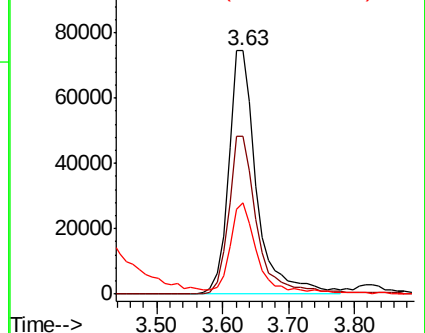
76 37.7 29.1 43.7



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: 115.984 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

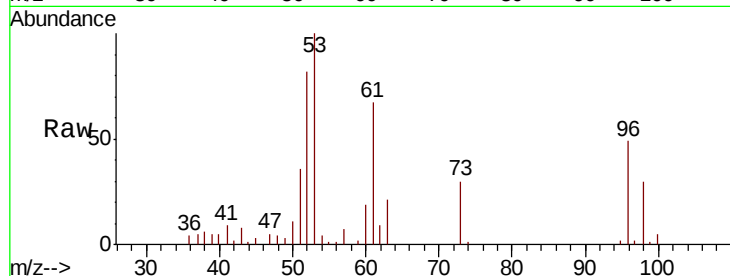
Tgt Ion: 53 Resp: 132168

Ion Ratio Lower Upper

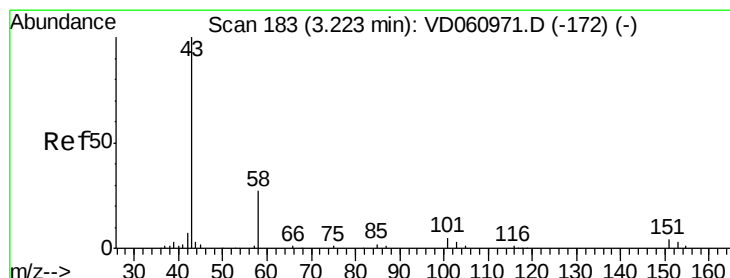
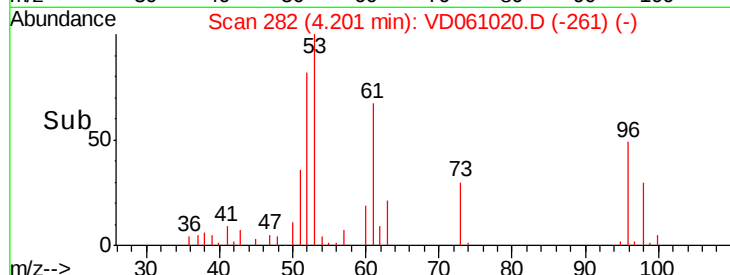
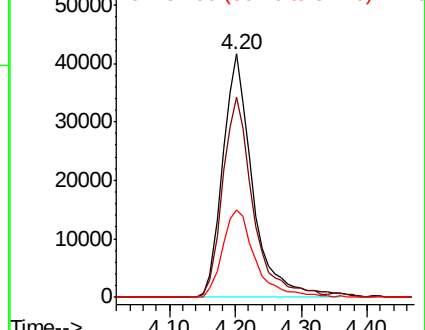
53 100

52 82.1 70.2 105.4

51 36.0 31.7 47.5



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: 123.930 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD061020.D

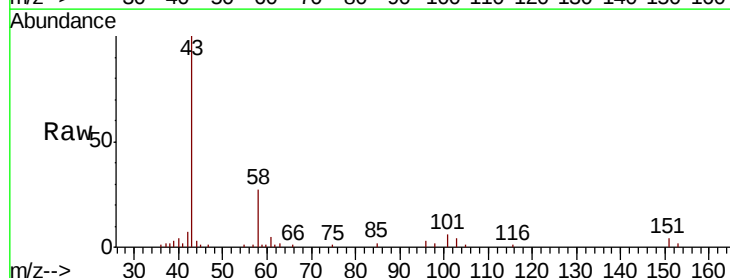
Acq: 12 Mar 2019 13:24

Tgt Ion: 43 Resp: 179483

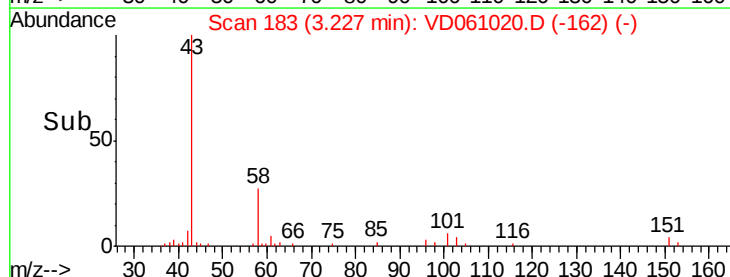
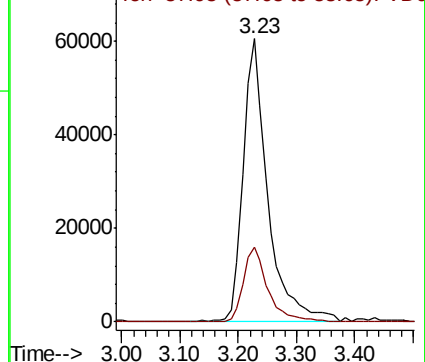
Ion Ratio Lower Upper

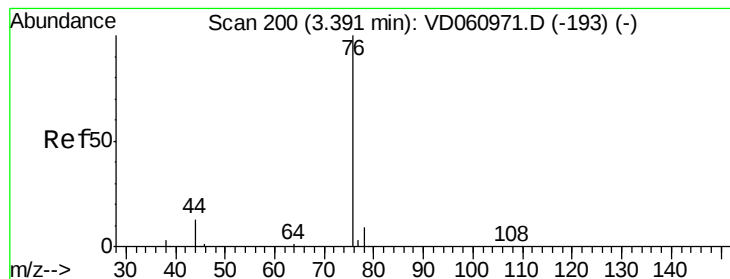
43 100

58 26.6 21.6 32.4



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





#17

Carbon Disulfide

Concen: 22.949 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

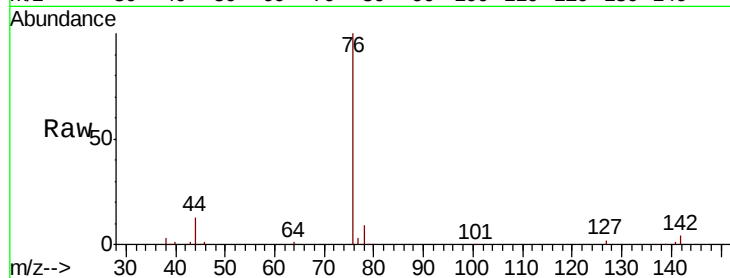
VD0312SBS01

Tgt Ion: 76 Resp: 472819

Ion Ratio Lower Upper

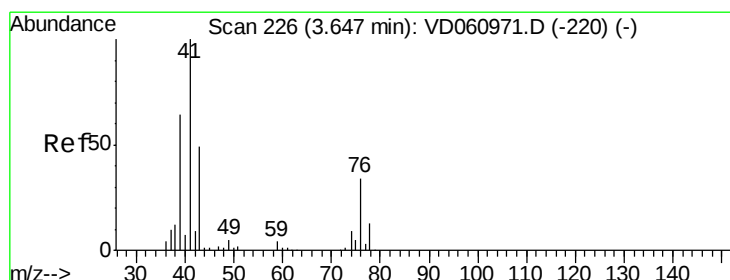
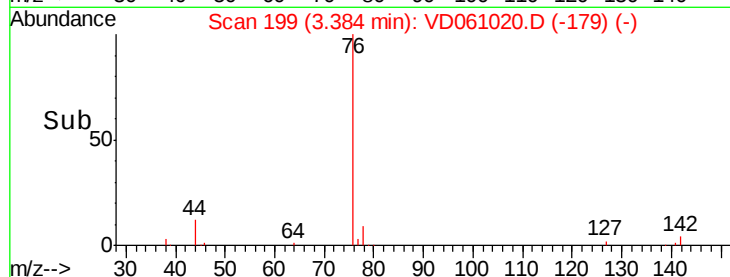
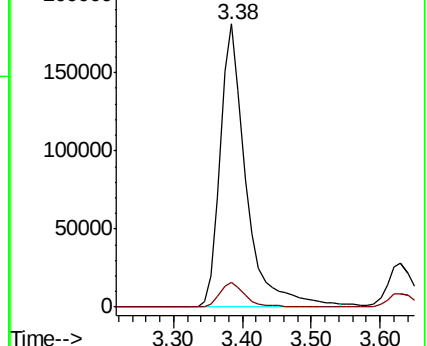
76 100

78 8.9 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 18.654 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.00 min

Lab File: VD061020.D

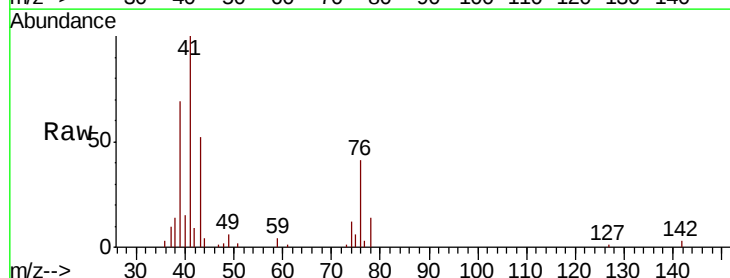
Acq: 12 Mar 2019 13:24

Tgt Ion: 43 Resp: 53168

Ion Ratio Lower Upper

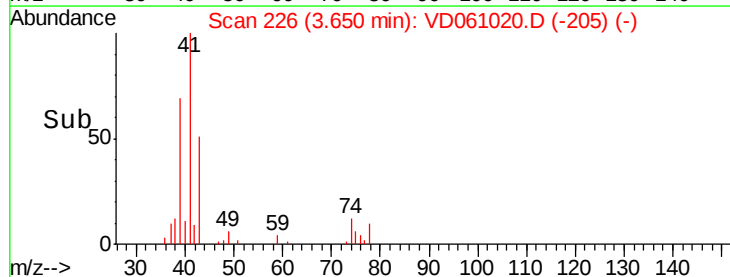
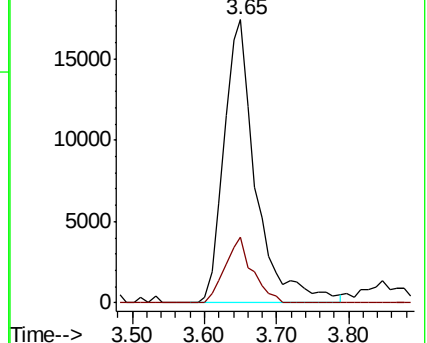
43 100

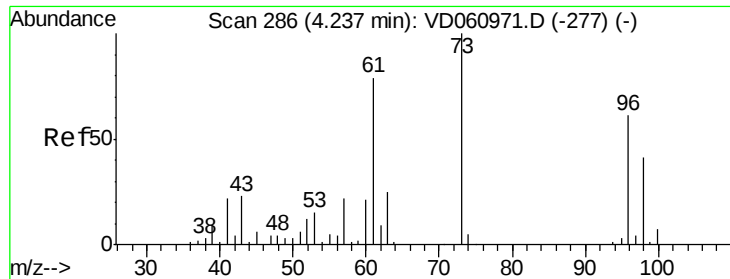
74 23.3 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

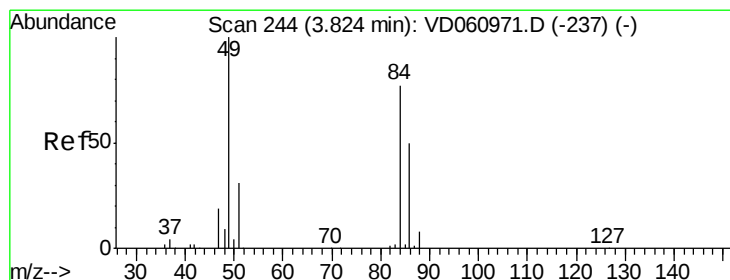
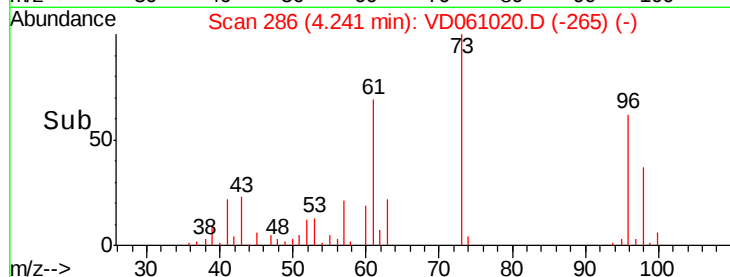
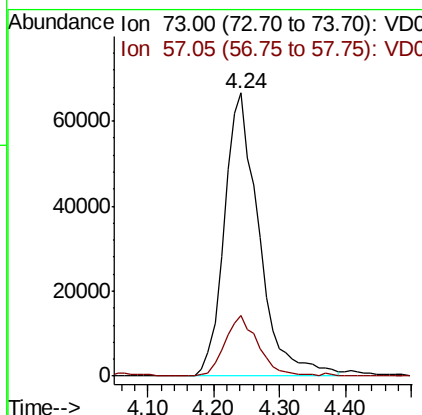
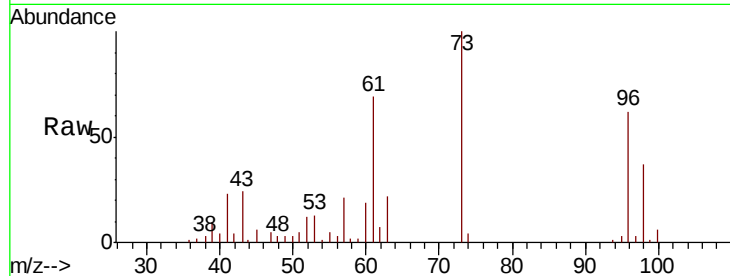




#19
Methyl tert-butyl Ether
Concen: 22.867 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

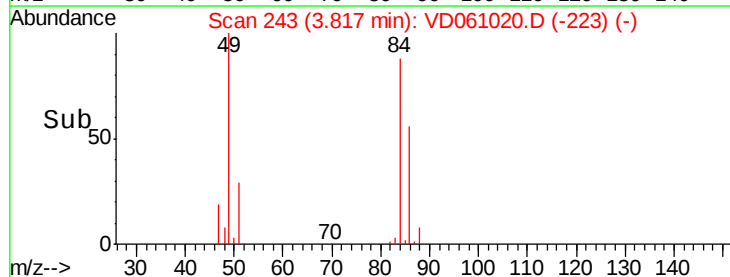
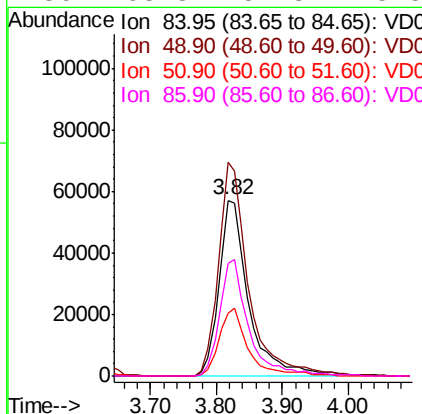
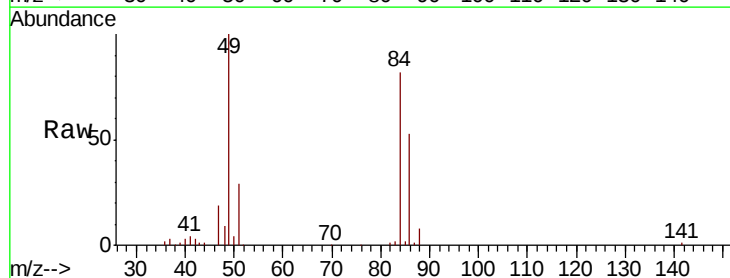
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

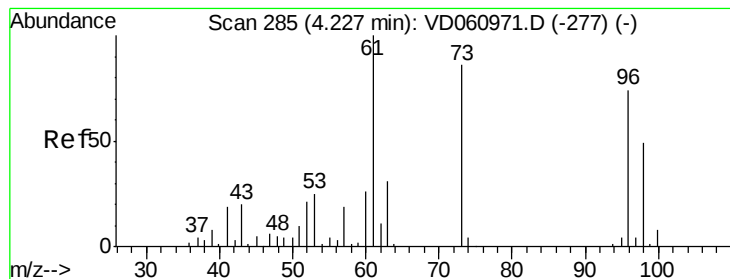
Tgt Ion: 73 Resp: 244760
Ion Ratio Lower Upper
73 100
57 21.3 17.7 26.5



#20
Methylene Chloride
Concen: 24.861 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 84 Resp: 179652
Ion Ratio Lower Upper
84 100
49 121.5 104.2 156.2
51 35.5 32.3 48.5
86 63.8 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 24.925 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

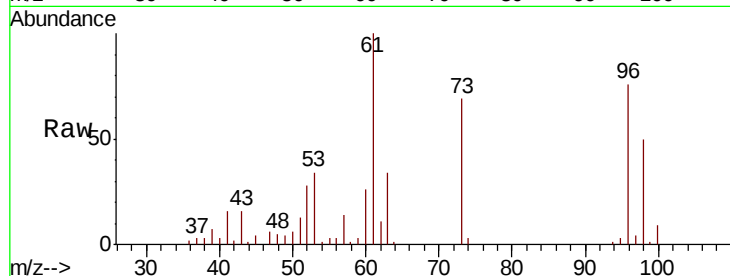
Tgt Ion: 96 Resp: 164770

Ion Ratio Lower Upper

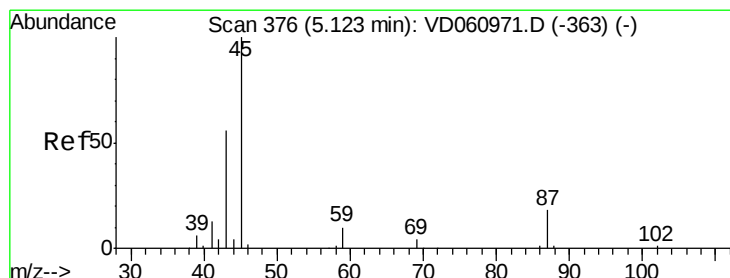
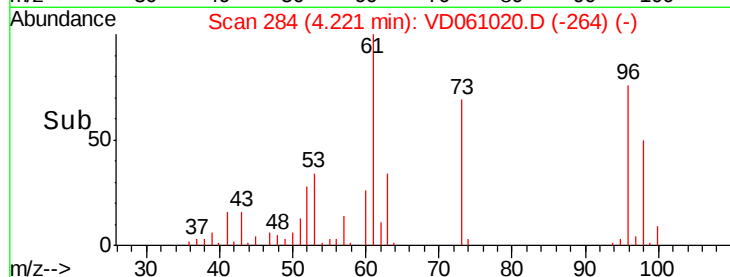
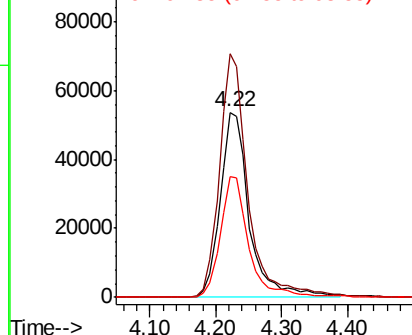
96 100

61 131.6 108.4 162.6

98 65.5 53.0 79.4



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: 22.470 ug/l

RT: 5.13 min Scan# 376

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Tgt Ion: 45 Resp: 455815

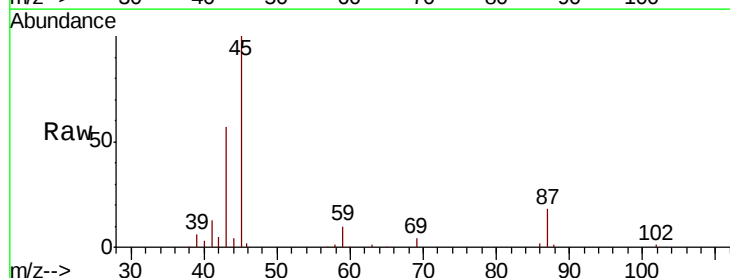
Ion Ratio Lower Upper

45 100

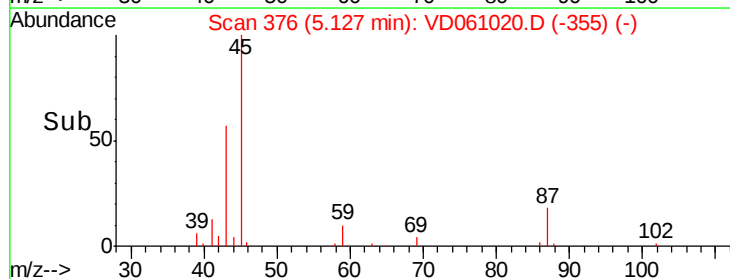
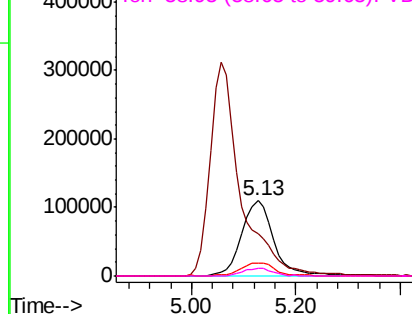
43 56.5 45.8 68.8

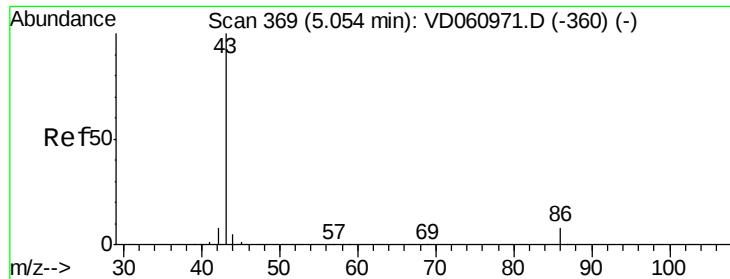
87 17.7 14.9 22.3

59 10.3 8.0 12.0



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: 119.260 ug/l

RT: 5.06 min Scan# 369

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

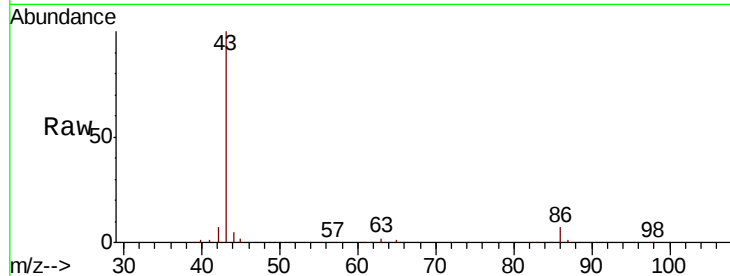
VD0312SBS01

Tgt Ion: 43 Resp: 1241923

Ion Ratio Lower Upper

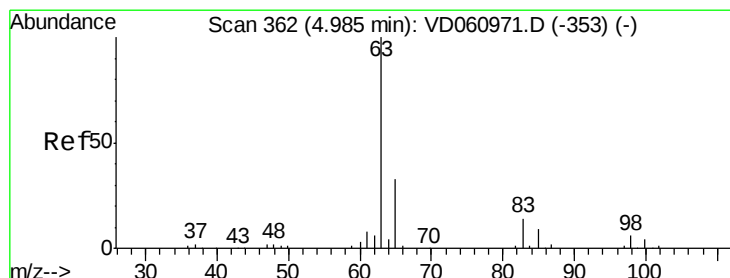
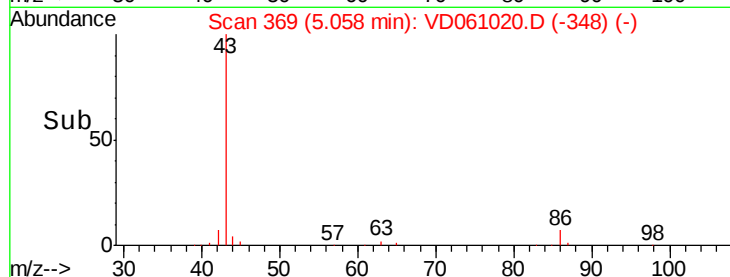
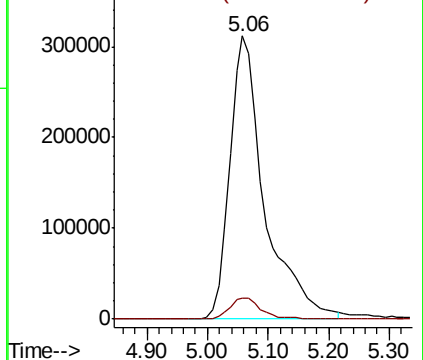
43 100

86 7.5 6.2 9.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 23.661 ug/l

RT: 4.99 min Scan# 362

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

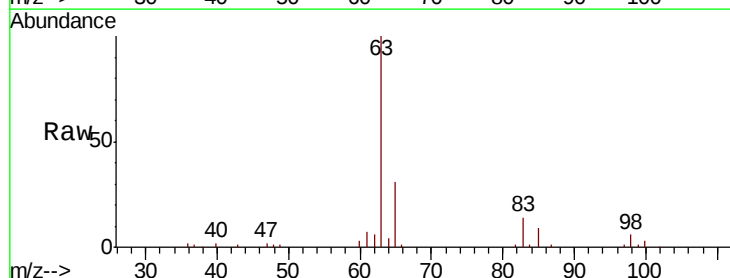
Tgt Ion: 63 Resp: 262986

Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.2

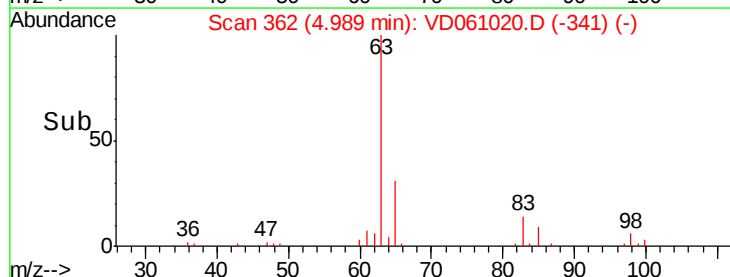
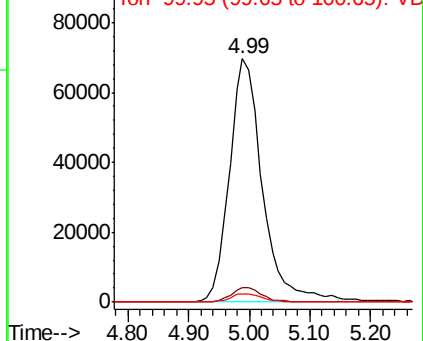
100 3.3 2.0 5.8



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: 119.133 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

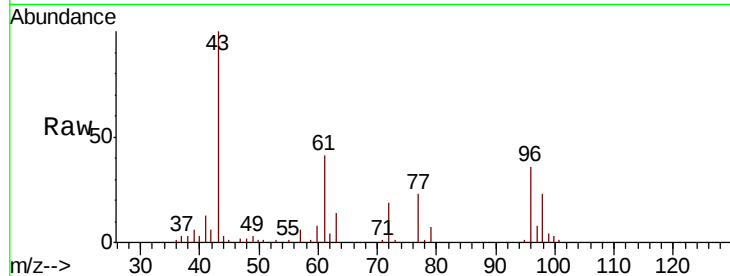
VD0312SBS01

Tgt Ion: 43 Resp: 195781

Ion Ratio Lower Upper

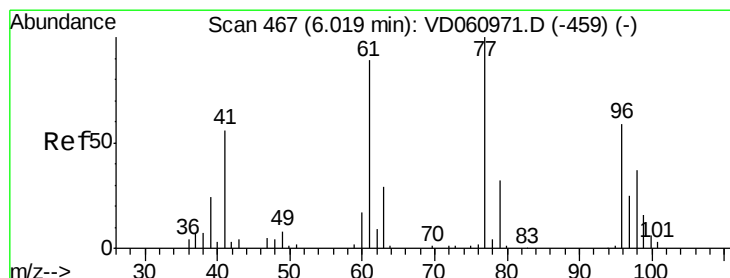
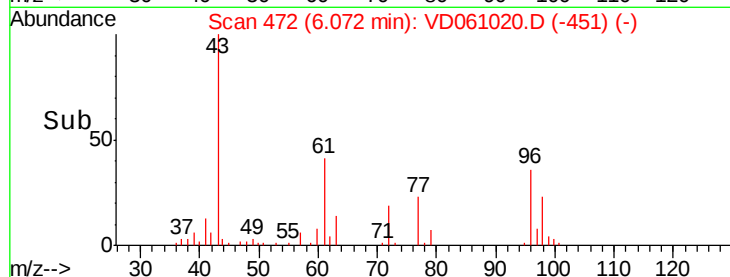
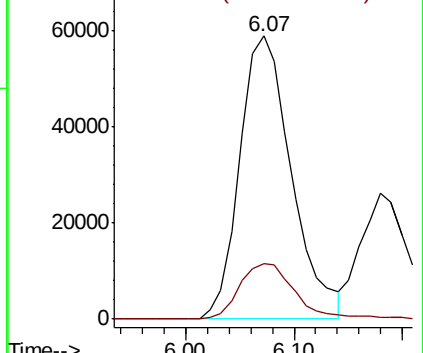
43 100

72 19.4 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 25.129 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD061020.D

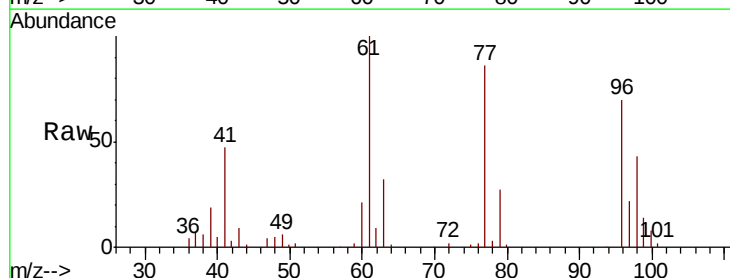
Acq: 12 Mar 2019 13:24

Tgt Ion: 77 Resp: 218035

Ion Ratio Lower Upper

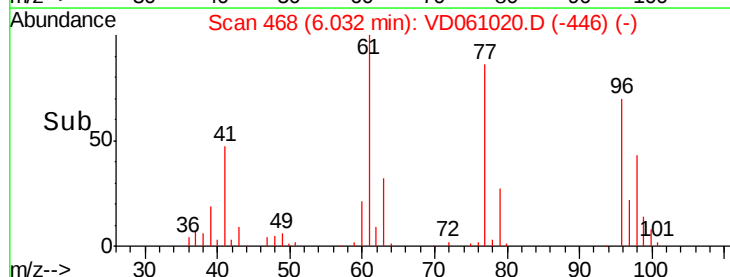
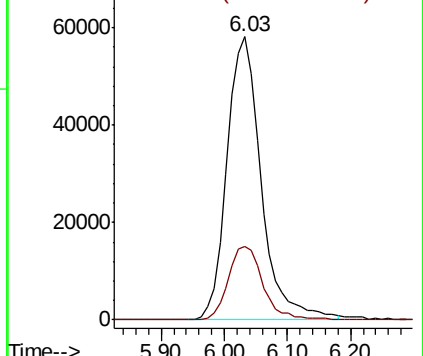
77 100

97 26.1 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



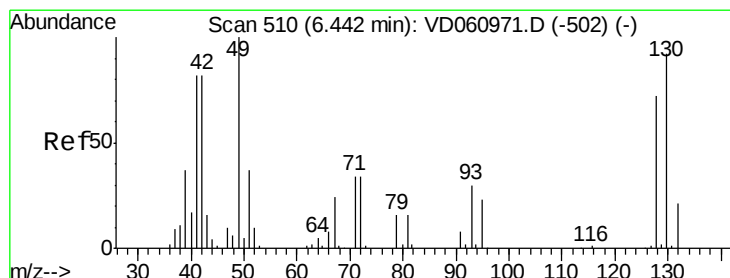
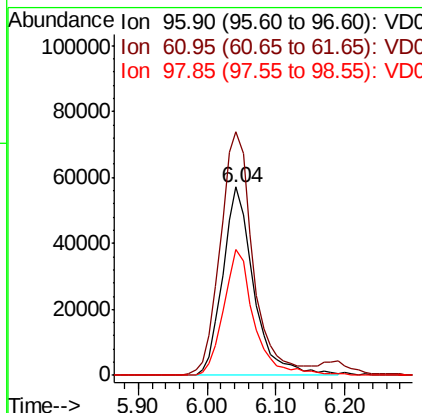
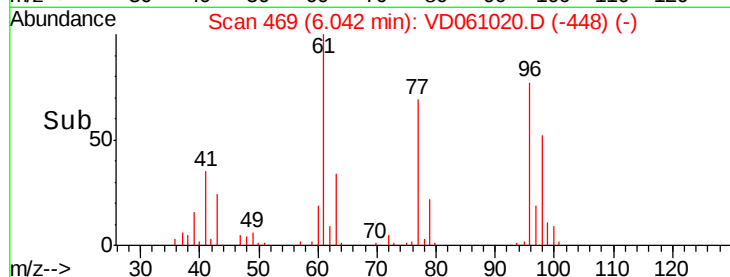
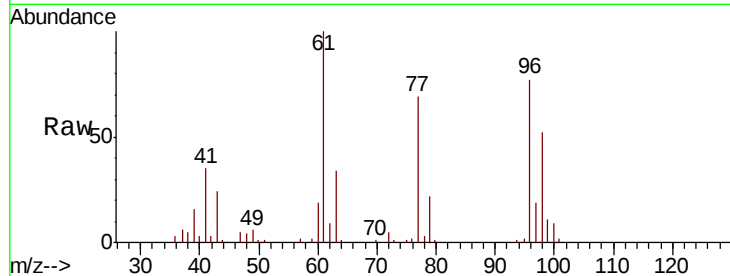


#27

cis-1,2-Dichloroethene
 Concen: 25.470 ug/l
 RT: 6.04 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

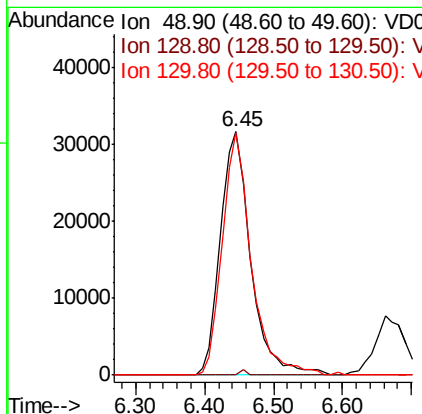
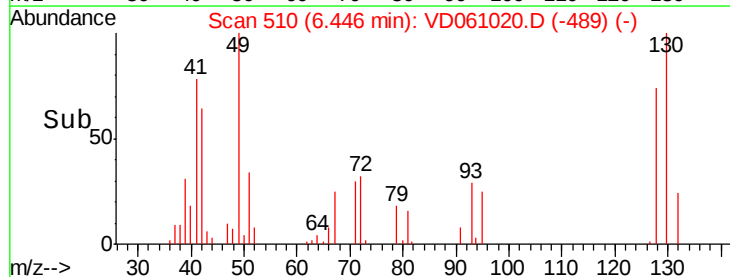
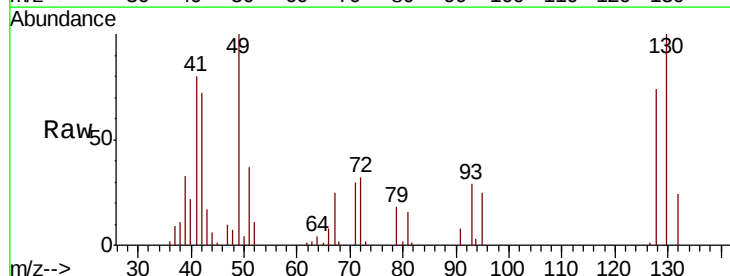
Tgt Ion: 96 Resp: 178641
 Ion Ratio Lower Upper
 96 100
 61 129.2 0.0 273.6
 98 66.8 0.0 132.6



#28

Bromochloromethane
 Concen: 20.478 ug/l
 RT: 6.45 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 49 Resp: 96353
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.0
 130 99.6 73.8 110.8

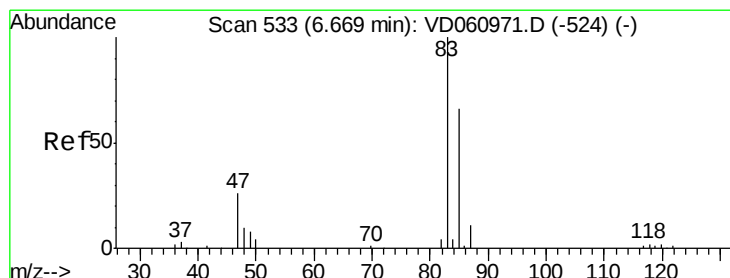
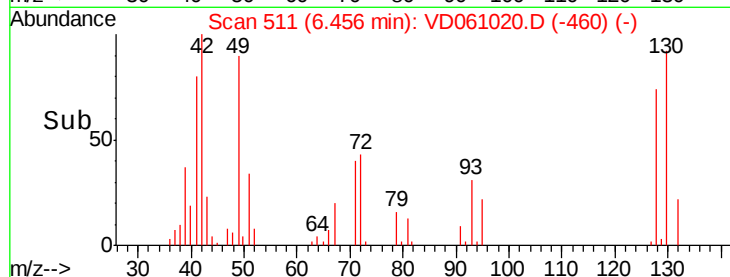
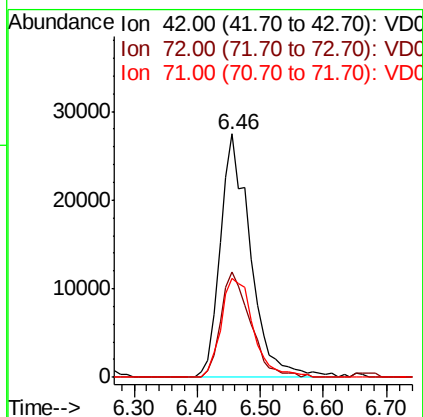
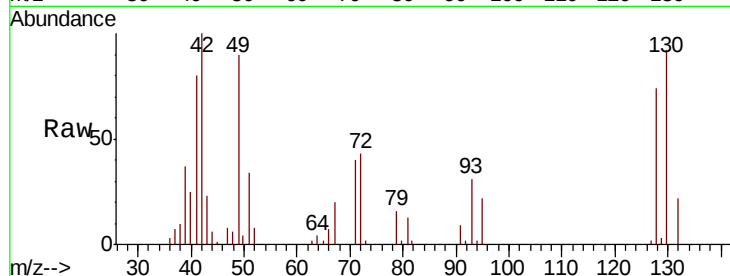




#29
Tetrahydrofuran
Concen: 102.607 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

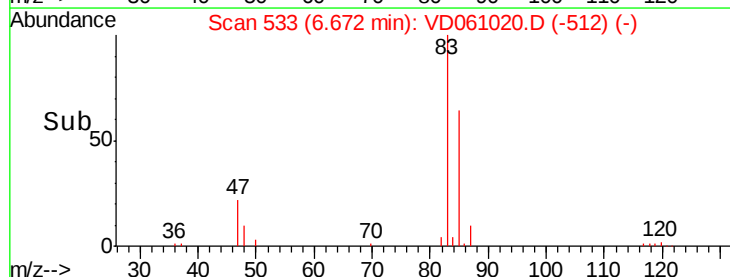
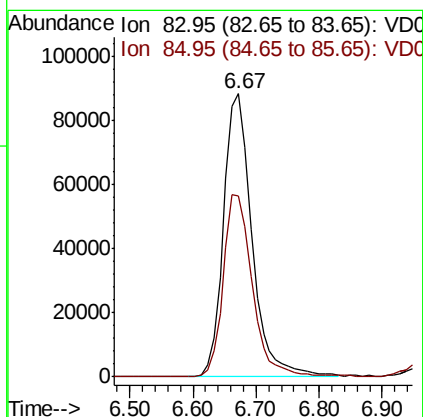
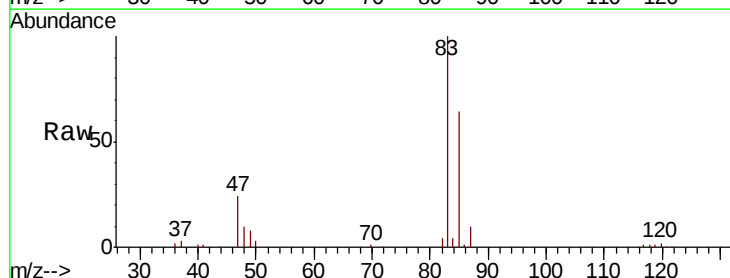
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

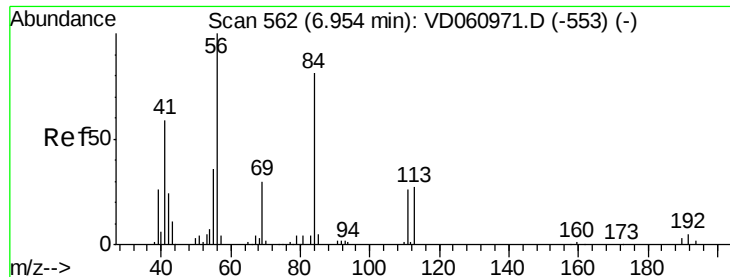
Tgt Ion: 42 Resp: 91562
Ion Ratio Lower Upper
42 100
72 42.5 34.5 51.7
71 43.1 33.8 50.6



#30
Chloroform
Concen: 24.090 ug/l
RT: 6.67 min Scan# 533
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 83 Resp: 277498
Ion Ratio Lower Upper
83 100
85 64.0 53.0 79.4

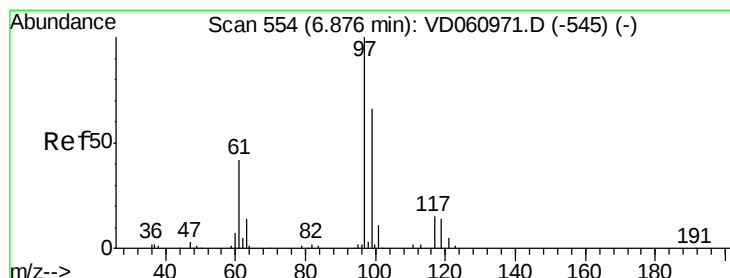
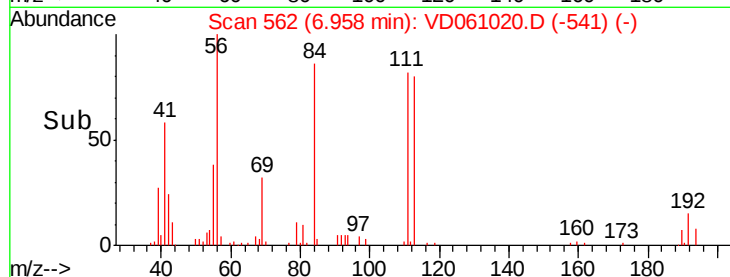
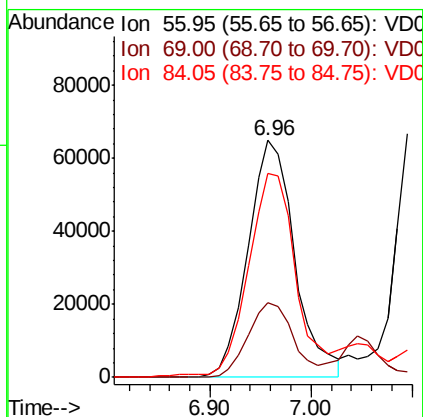
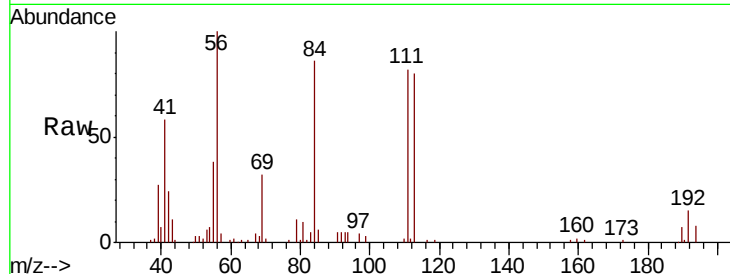




#31
Cyclohexane
Concen: 23.272 ug/l
RT: 6.96 min Scan# 562
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

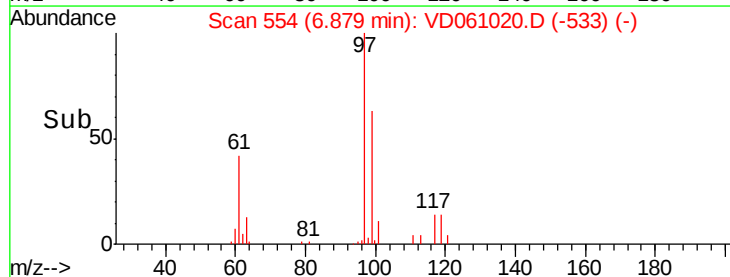
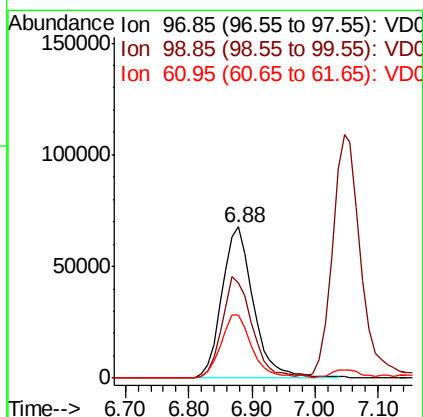
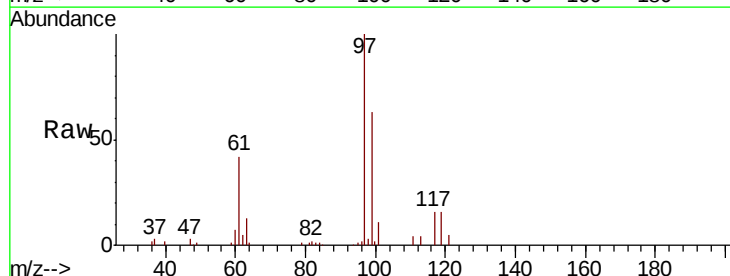
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

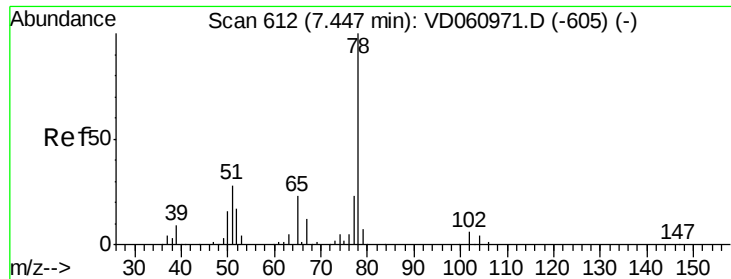
Tgt Ion: 56 Resp: 208566
Ion Ratio Lower Upper
56 100
69 31.7 24.0 36.0
84 86.0 65.8 98.6



#32
1,1,1-Trichloroethane
Concen: 23.453 ug/l
RT: 6.88 min Scan# 554
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 97 Resp: 233571
Ion Ratio Lower Upper
97 100
99 63.2 53.2 79.8
61 42.1 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 23.453 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

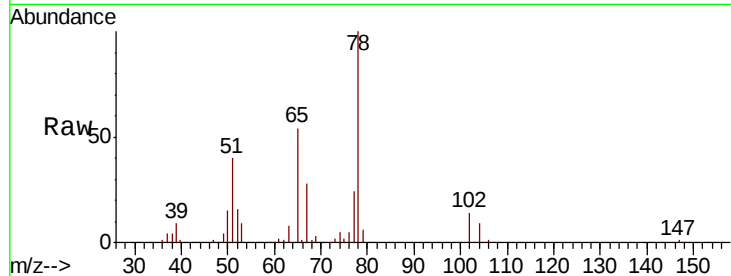
VD0312SBS01

Tgt Ion: 65 Resp: 297203

Ion Ratio Lower Upper

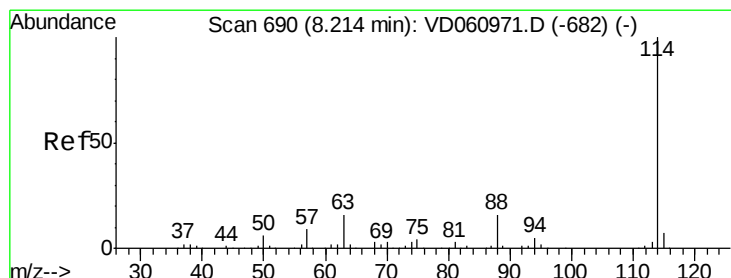
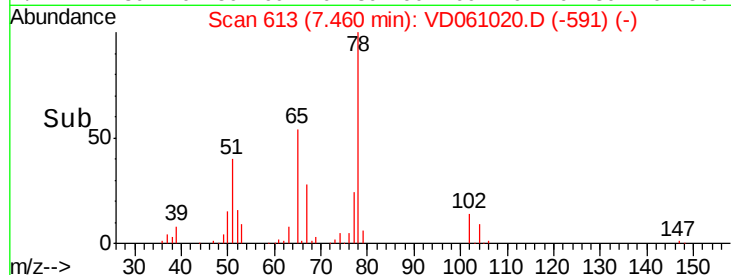
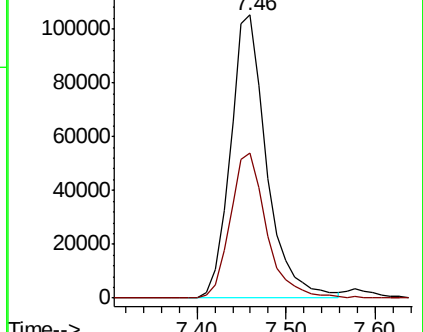
65 100

67 51.1 0.0 105.2



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: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

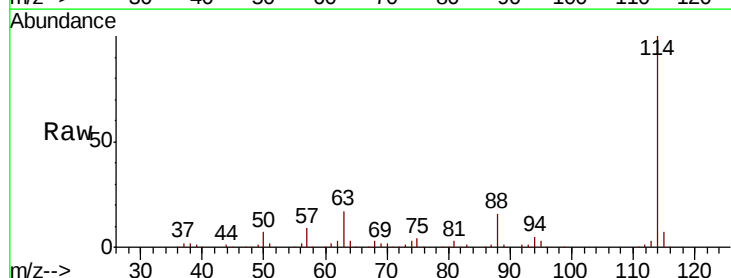
Tgt Ion: 114 Resp: 1147509

Ion Ratio Lower Upper

114 100

63 16.9 0.0 31.4

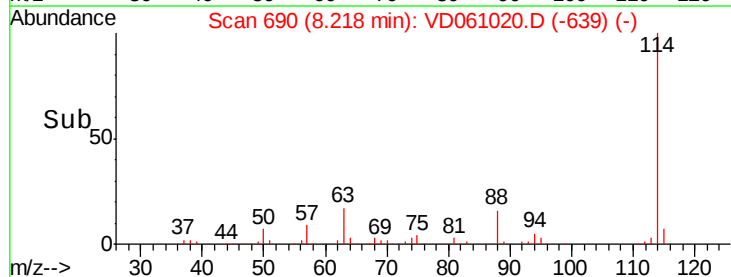
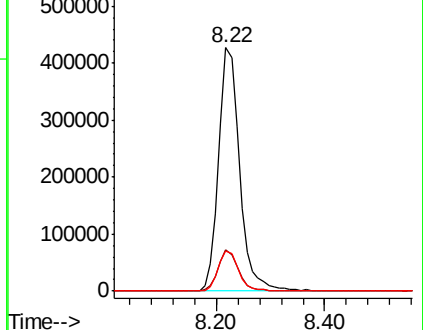
88 16.4 0.0 33.0

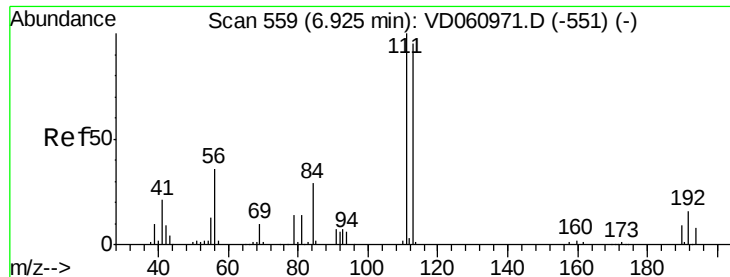


Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

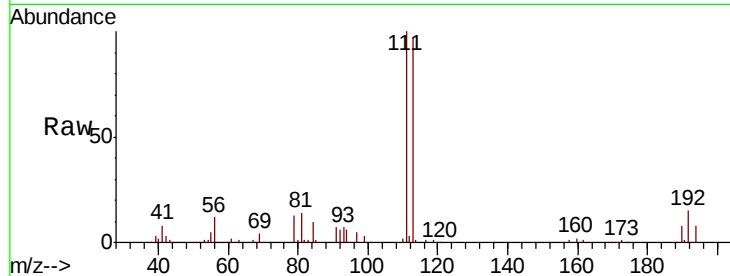
Tgt Ion:113 Resp: 451155

Ion Ratio Lower Upper

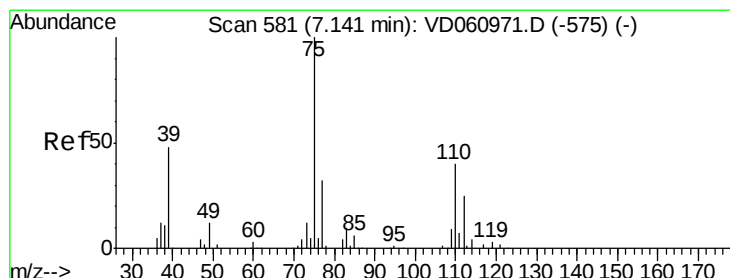
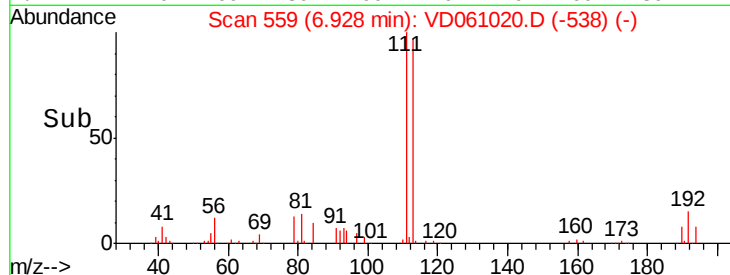
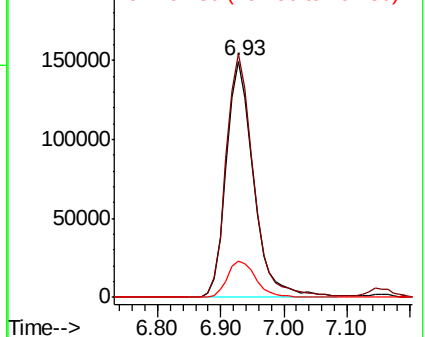
113 100

111 103.0 84.2 126.4

192 15.5 13.1 19.7



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: 21.843 ug/l

RT: 7.15 min Scan# 582

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

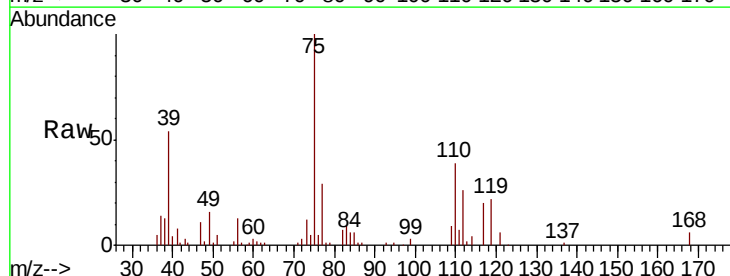
Tgt Ion: 75 Resp: 216054

Ion Ratio Lower Upper

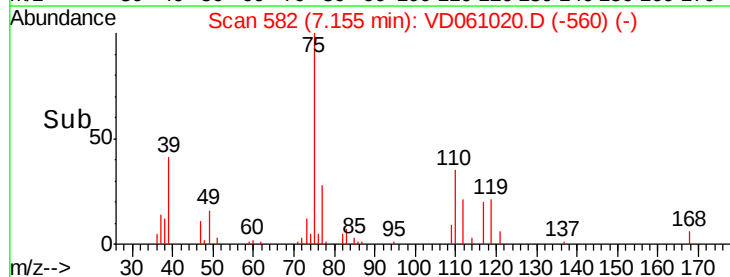
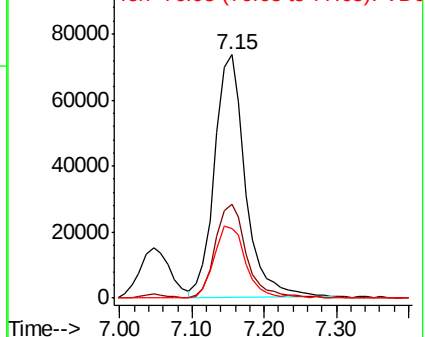
75 100

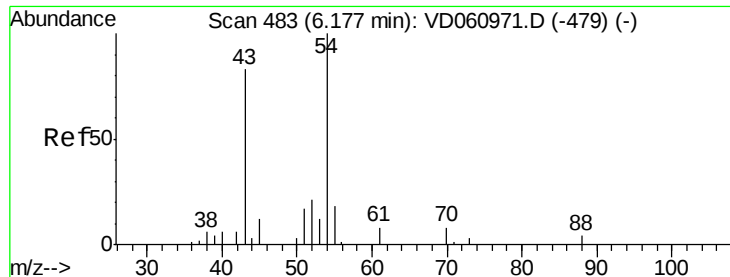
110 38.6 19.7 59.1

77 28.6 24.7 37.1



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

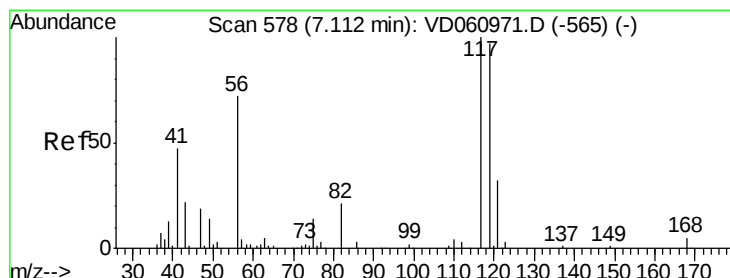
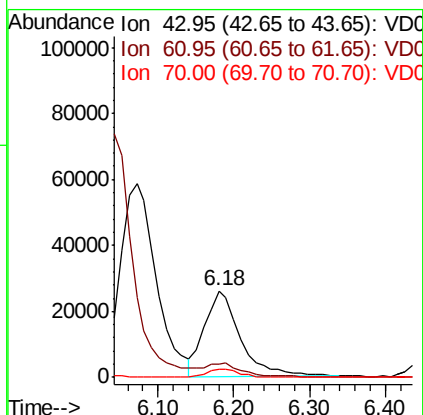
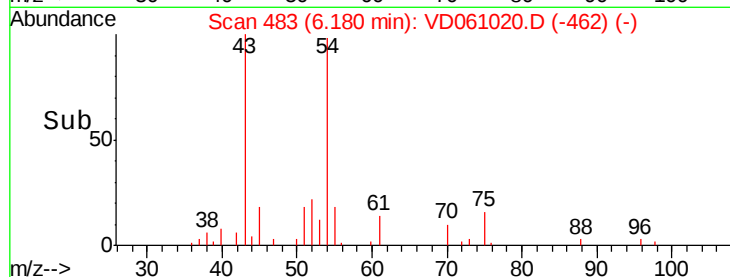
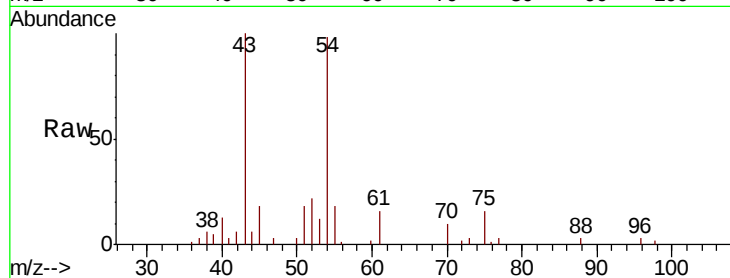




#37
Ethyl Acetate
Concen: 18.446 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

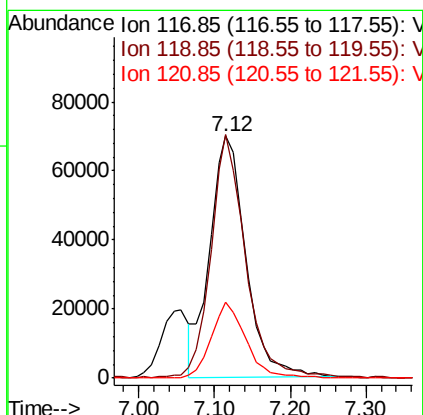
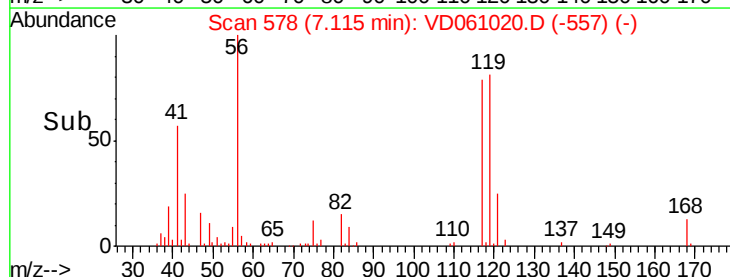
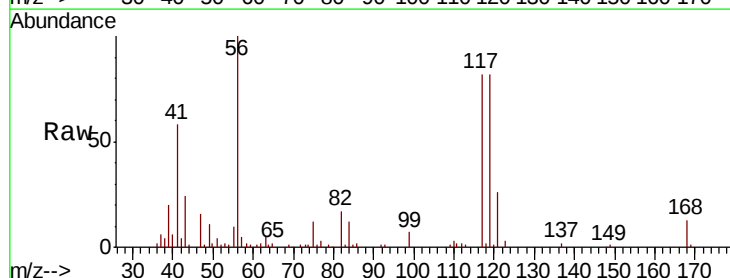
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

Tgt Ion: 43 Resp: 85619
Ion Ratio Lower Upper
43 100
61 15.9 13.7 20.5
70 9.8 7.1 10.7



#38
Carbon Tetrachloride
Concen: 21.169 ug/l
RT: 7.12 min Scan# 578
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 117 Resp: 230645
Ion Ratio Lower Upper
117 100
119 100.5 77.8 116.8
121 31.5 25.3 37.9





#39

Methylcyclohexane

Concen: 22.542 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

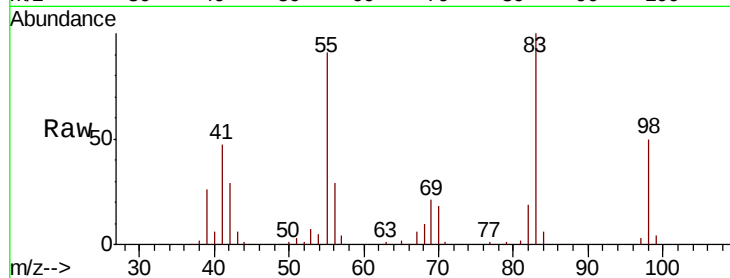
Tgt Ion: 83 Resp: 231199

Ion Ratio Lower Upper

83 100

55 91.1 69.6 104.4

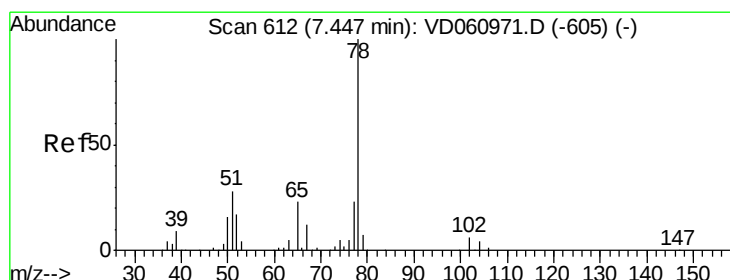
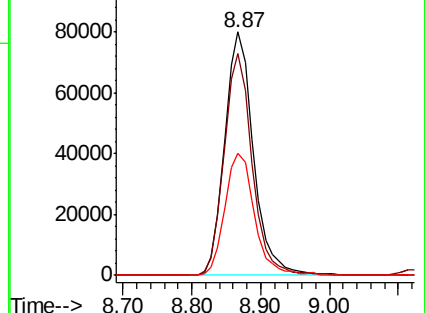
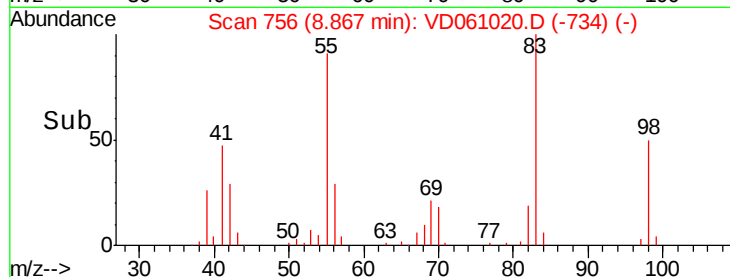
98 50.1 40.0 60.0



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: 22.190 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061020.D

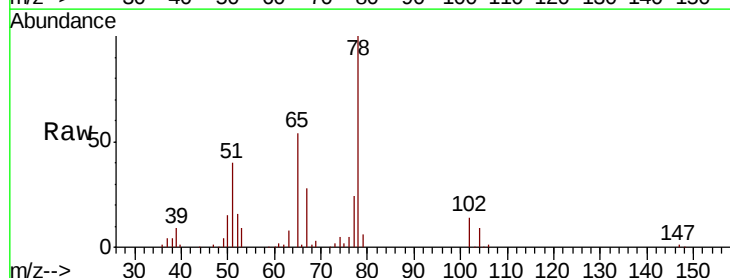
Acq: 12 Mar 2019 13:24

Tgt Ion: 78 Resp: 548444

Ion Ratio Lower Upper

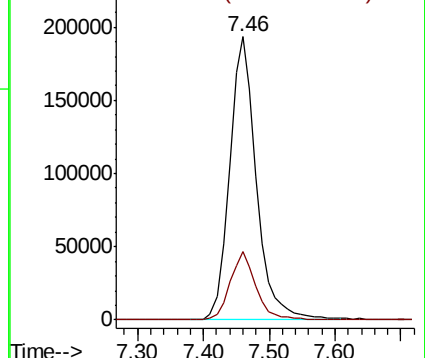
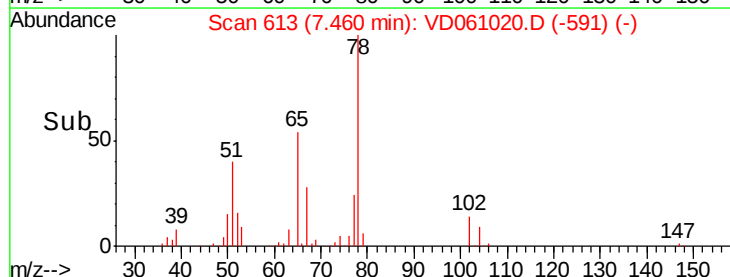
78 100

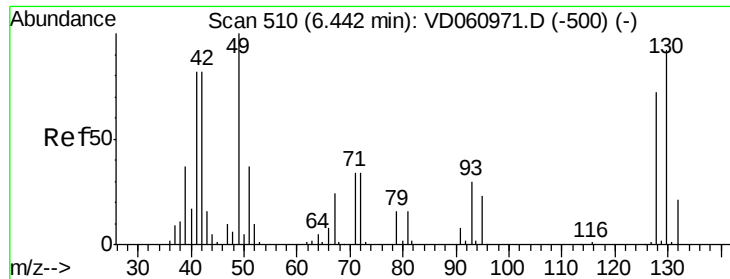
77 24.3 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 18.874 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

Tgt Ion: 41 Resp: 100767

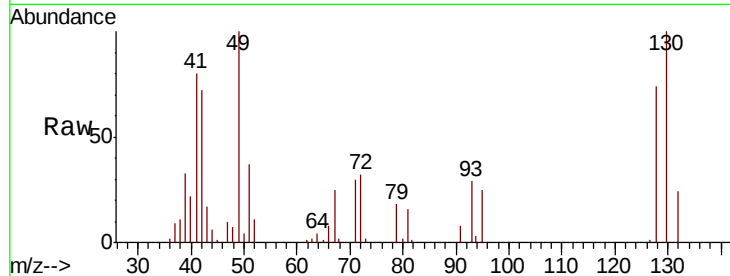
Ion Ratio Lower Upper

41 100

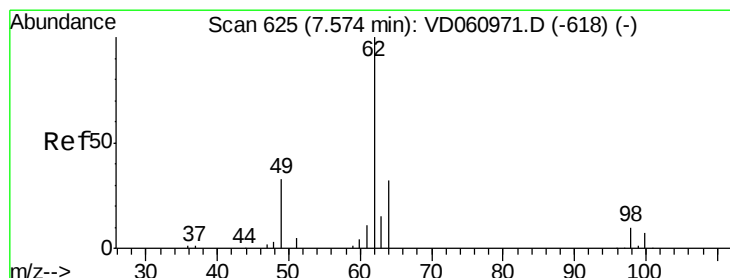
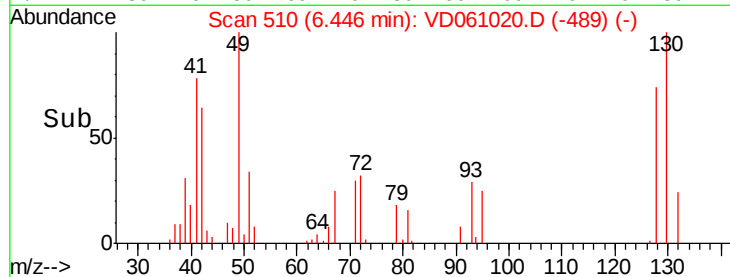
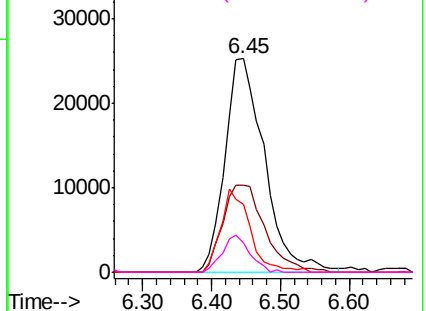
39 41.0 35.7 53.5

67 31.6 23.0 34.6

52 13.8 9.2 13.8



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: 20.178 ug/l

RT: 7.58 min Scan# 625

Delta R.T. 0.00 min

Lab File: VD061020.D

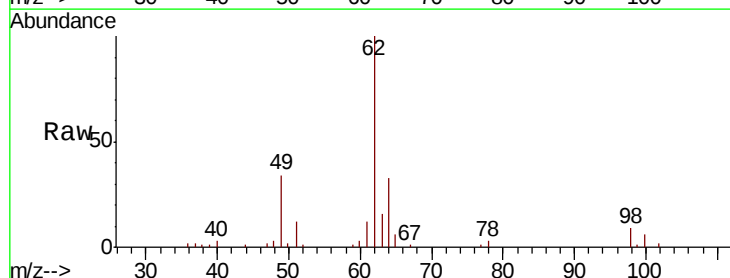
Acq: 12 Mar 2019 13:24

Tgt Ion: 62 Resp: 144729

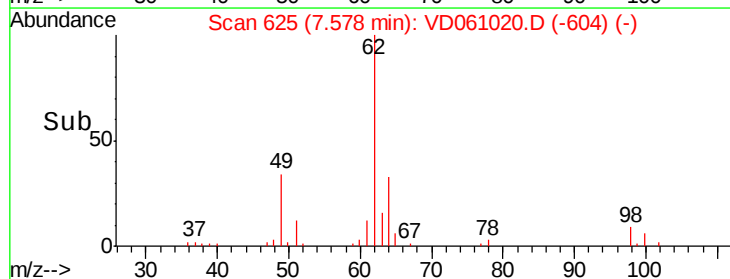
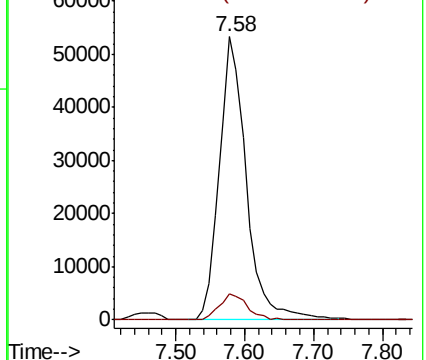
Ion Ratio Lower Upper

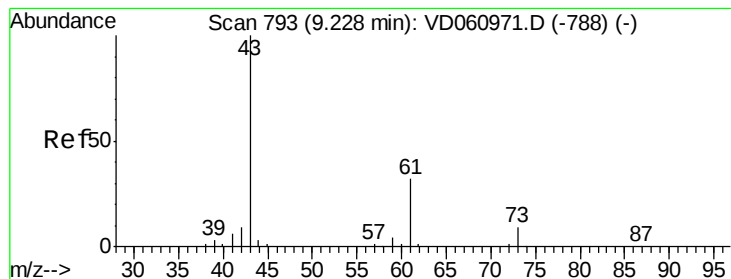
62 100

98 9.2 0.0 20.4



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





#43

Isopropyl Acetate

Concen: 18.676 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

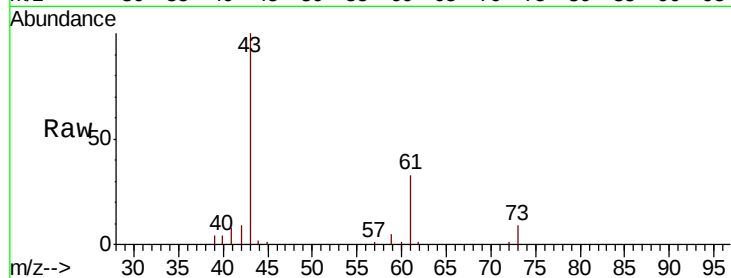
Tgt Ion: 43 Resp: 120068

Ion Ratio Lower Upper

43 100

61 32.7 25.6 38.4

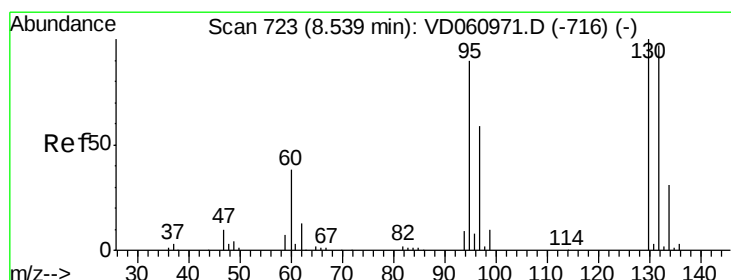
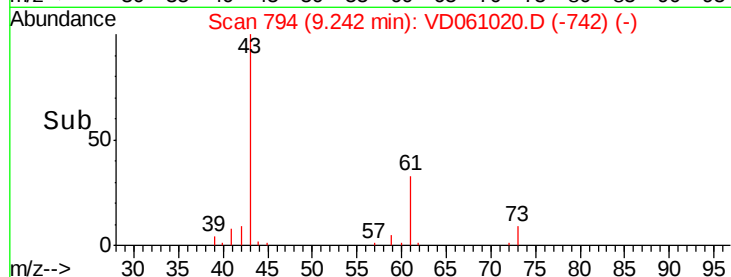
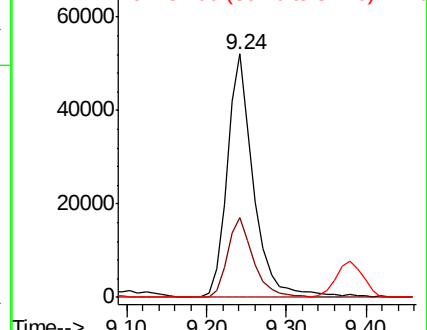
87 0.0 0.2 0.4#



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: 22.372 ug/l

RT: 8.54 min Scan# 723

Delta R.T. 0.00 min

Lab File: VD061020.D

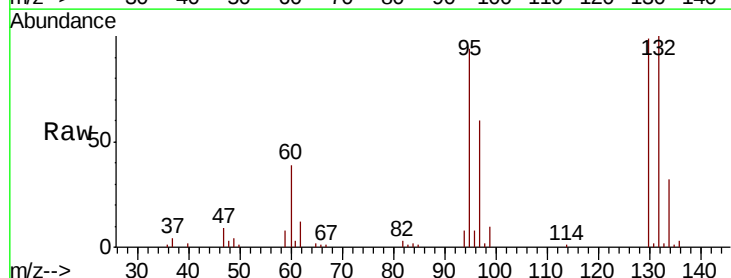
Acq: 12 Mar 2019 13:24

Tgt Ion:130 Resp: 190763

Ion Ratio Lower Upper

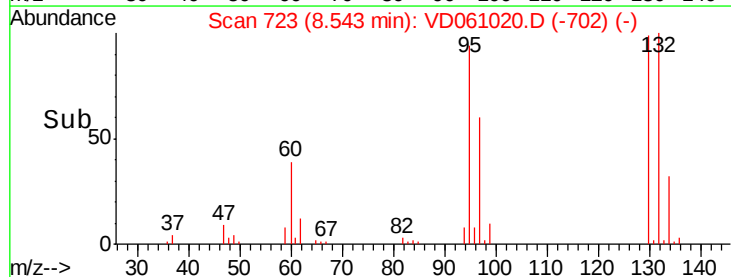
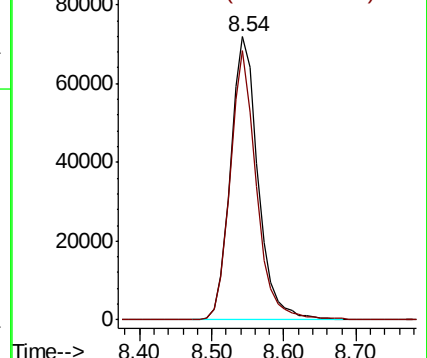
130 100

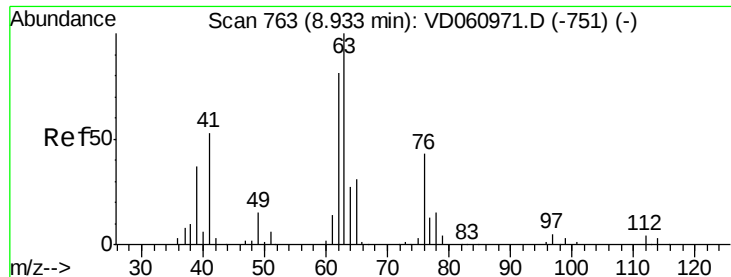
95 95.0 0.0 179.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 21.095 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

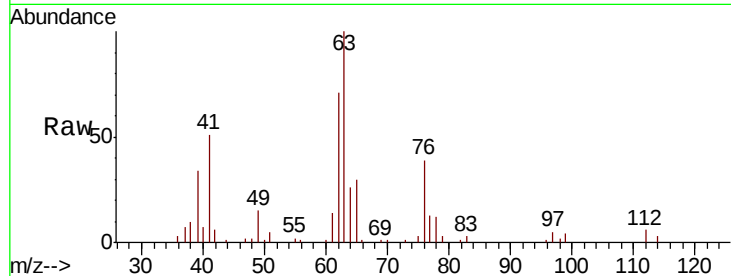
VD0312SBS01

Tgt Ion: 63 Resp: 136982

Ion Ratio Lower Upper

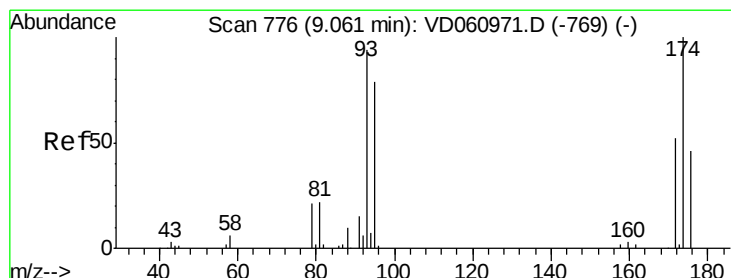
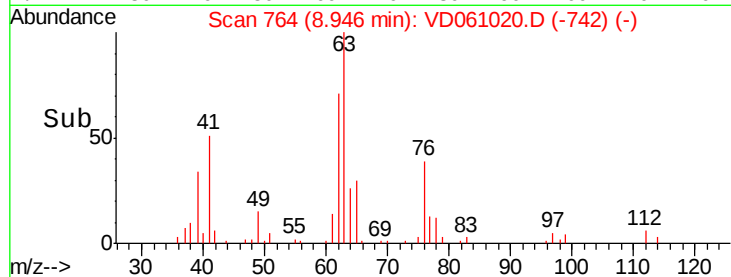
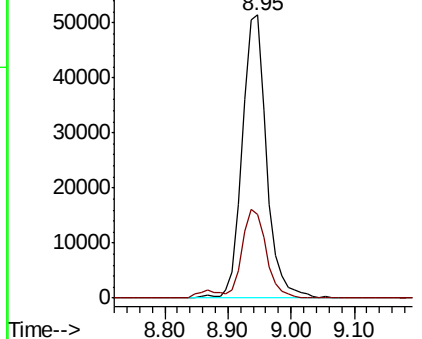
63 100

65 29.7 24.8 37.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.266 ug/l

RT: 9.06 min Scan# 776

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

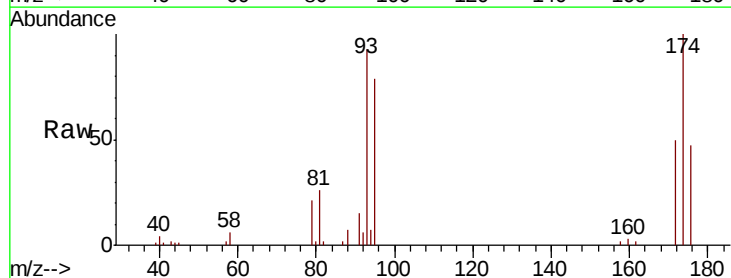
Tgt Ion: 93 Resp: 83476

Ion Ratio Lower Upper

93 100

95 85.1 67.4 101.0

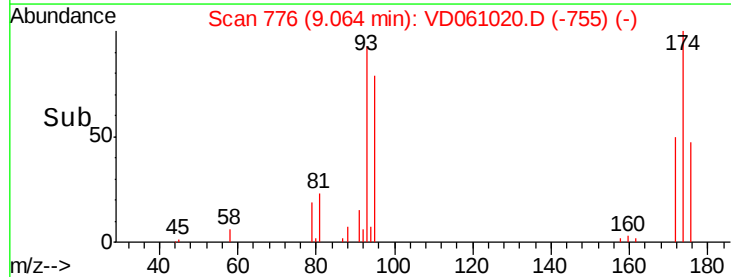
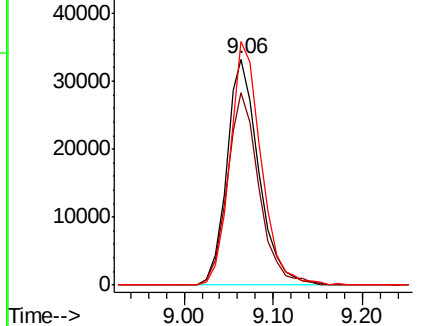
174 107.7 85.4 128.0



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: 20.280 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

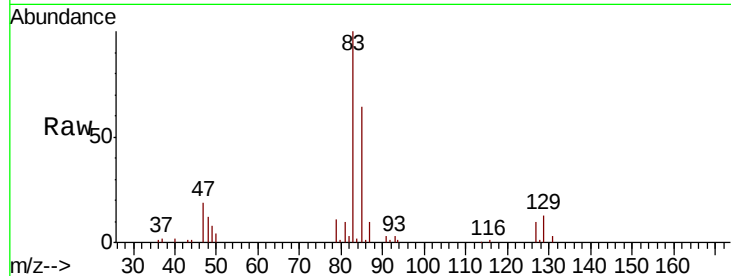
Tgt Ion: 83 Resp: 188495

Ion Ratio Lower Upper

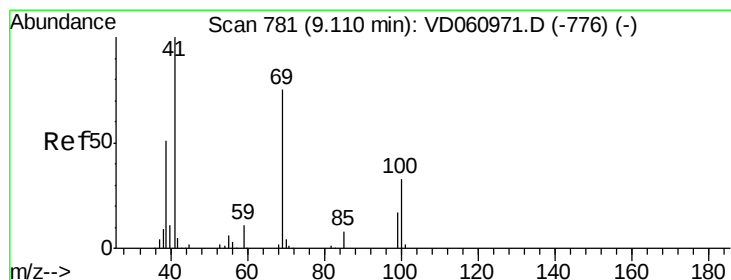
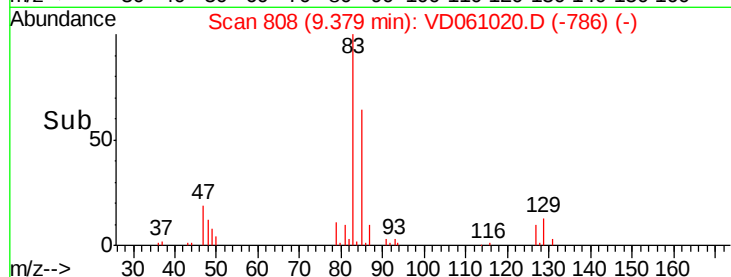
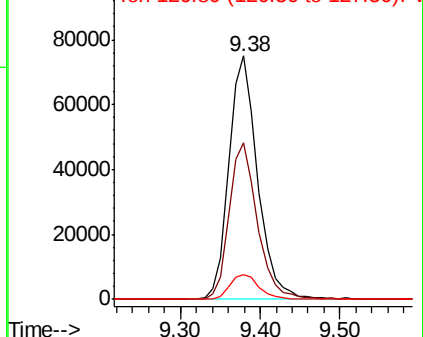
83 100

85 64.1 52.5 78.7

127 10.0 7.5 11.3



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: 19.303 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

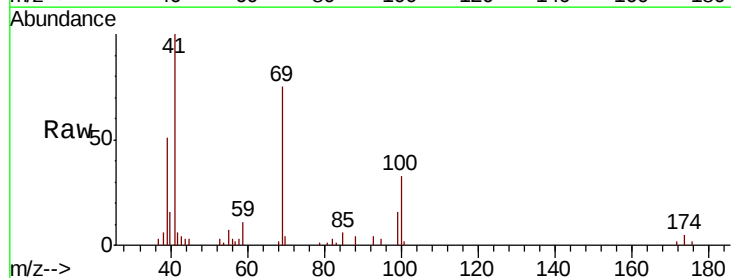
Tgt Ion: 41 Resp: 69869

Ion Ratio Lower Upper

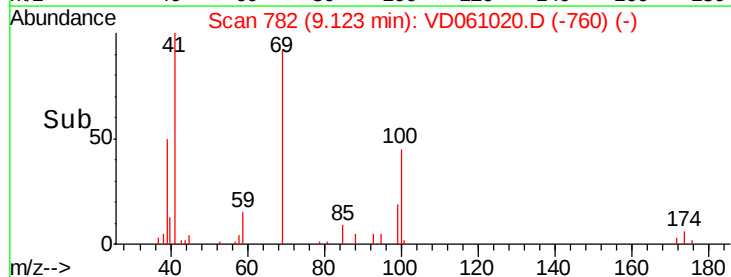
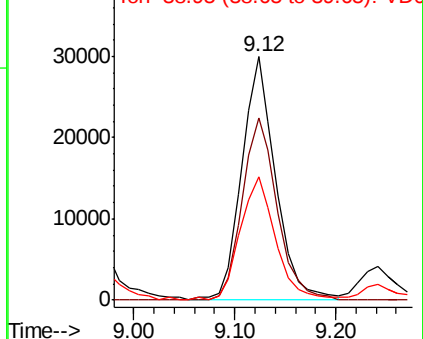
41 100

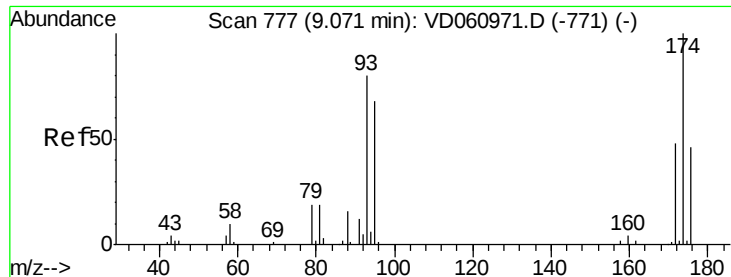
69 74.7 59.9 89.9

39 50.7 40.9 61.3



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

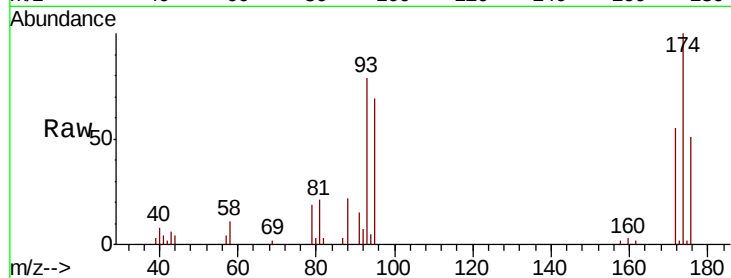




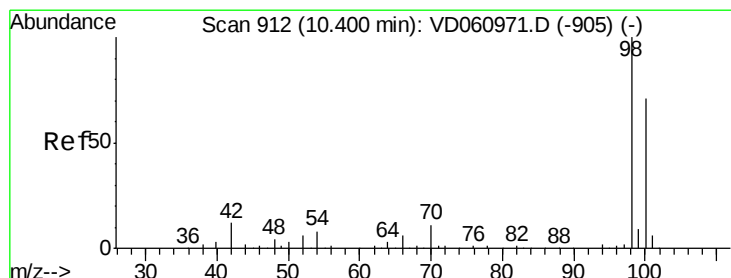
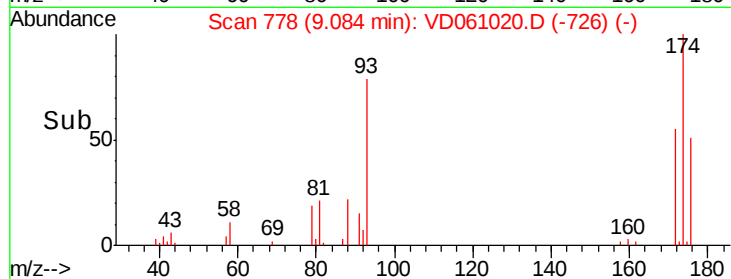
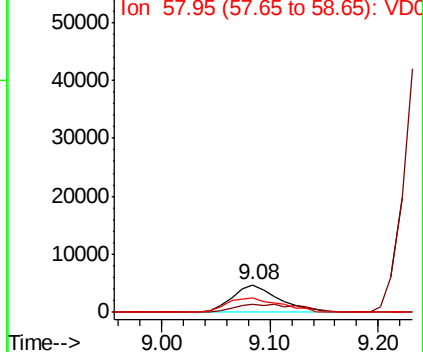
#49
 1,4-Dioxane
 Concen: 376.951 ug/l
 RT: 9.08 min Scan# 778
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion: 88 Resp: 13797
 Ion Ratio Lower Upper
 88 100
 43 28.4 21.0 31.6
 58 50.9 48.6 72.8

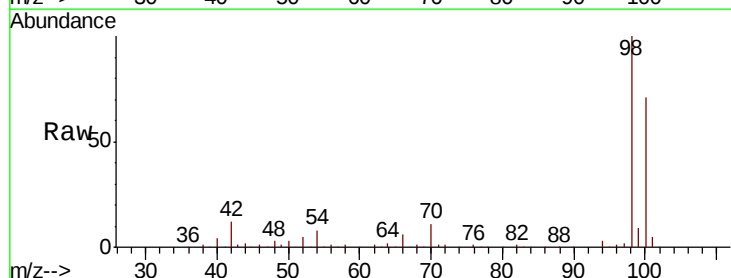


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

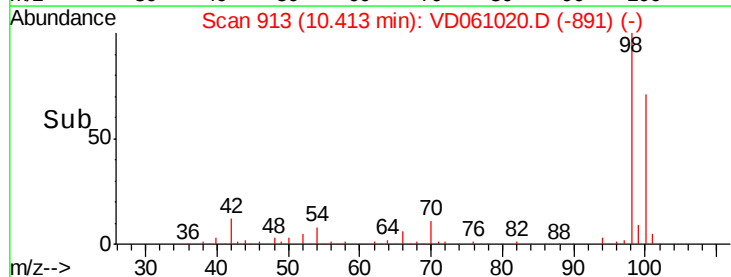
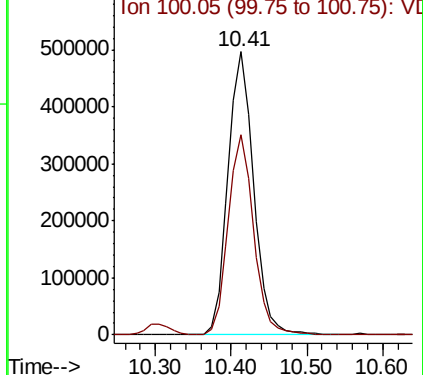


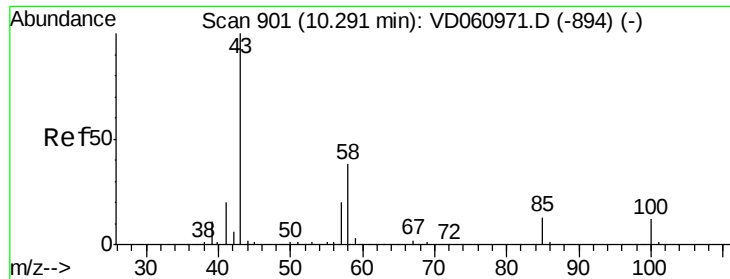
#50
 Toluene-d8
 Concen: 376.951 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 98 Resp: 1165602
 Ion Ratio Lower Upper
 98 100
 100 70.6 57.4 86.2



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: 96.389 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

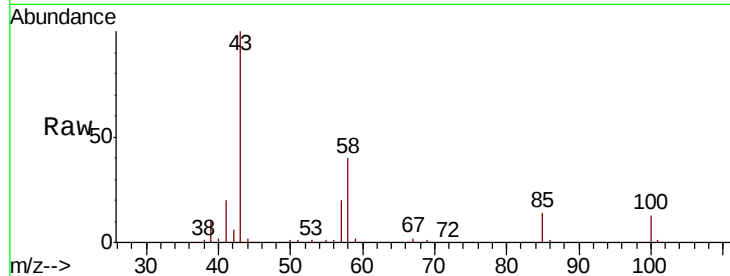
VD0312SBS01

Tgt Ion: 43 Resp: 379630

Ion Ratio Lower Upper

43 100

58 40.4 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

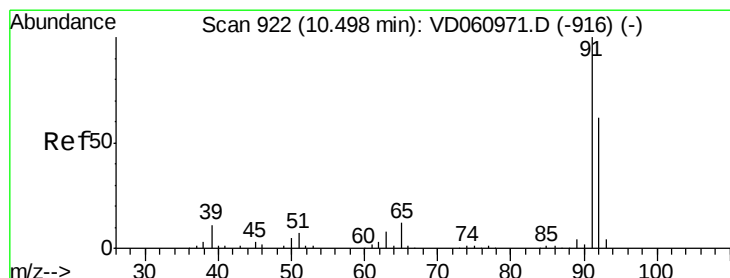
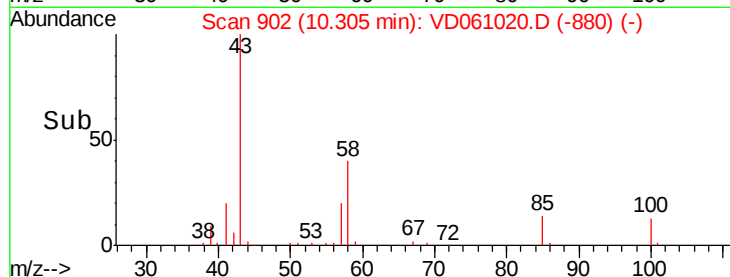
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 22.491 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD061020.D

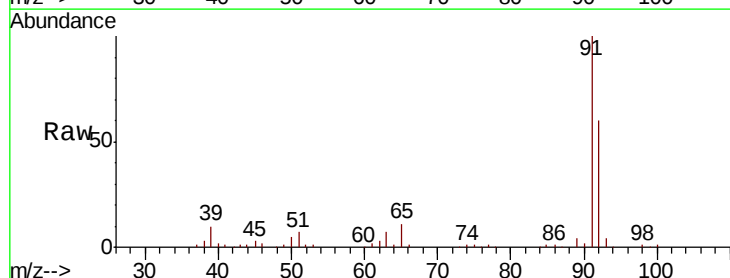
Acq: 12 Mar 2019 13:24

Tgt Ion: 92 Resp: 345673

Ion Ratio Lower Upper

92 100

91 167.0 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

300000

250000

200000

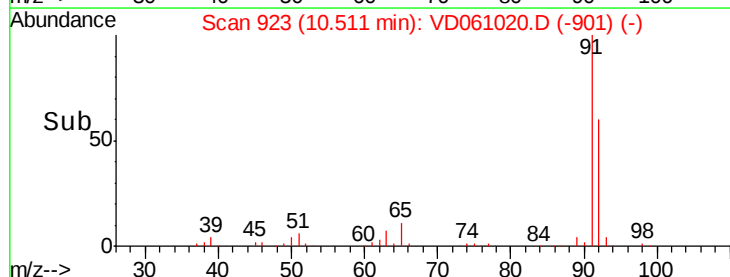
150000

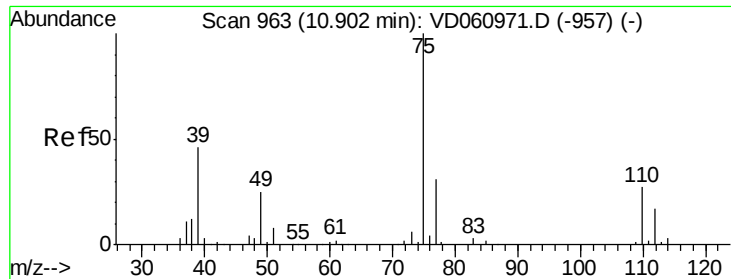
100000

50000

0

Time-->

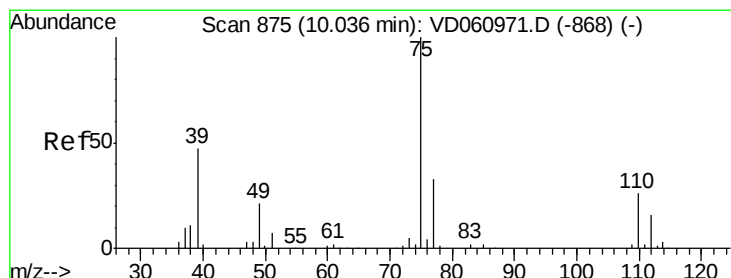
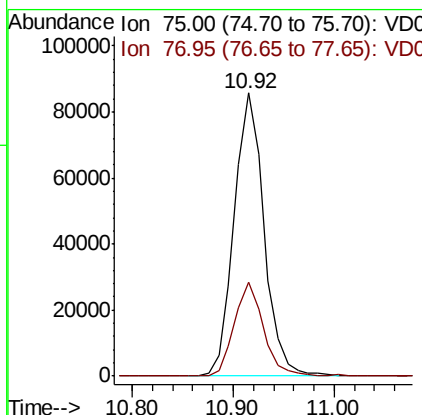
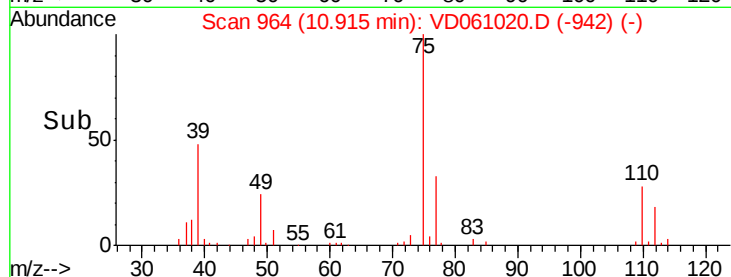
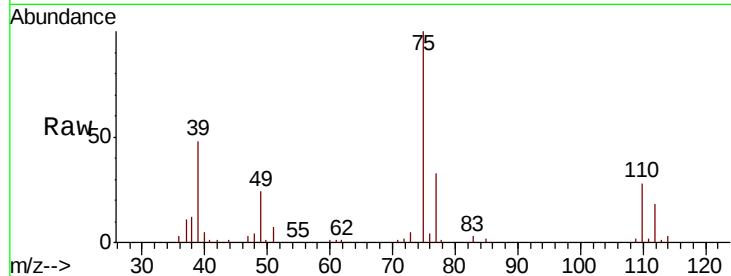




#53
 t-1,3-Dichloropropene
 Concen: 20.820 ug/l
 RT: 10.92 min Scan# 964
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

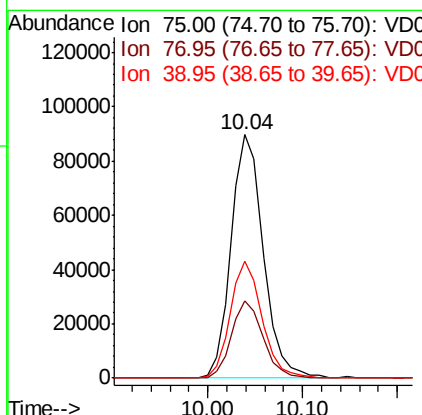
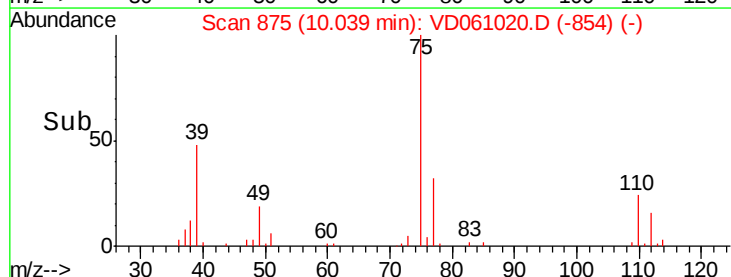
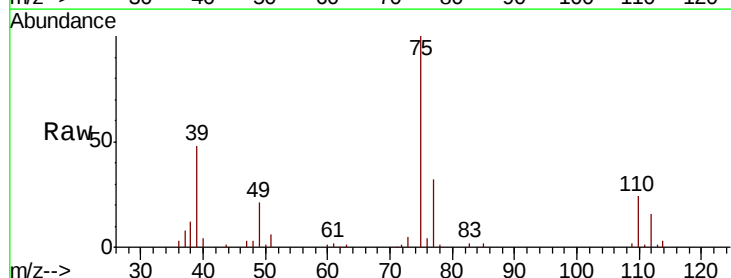
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion: 75 Resp: 176951
 Ion Ratio Lower Upper
 75 100
 77 33.1 24.7 37.1



#54
 cis-1,3-Dichloropropene
 Concen: 20.677 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 75 Resp: 211148
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.2 39.4
 39 48.1 37.8 56.8

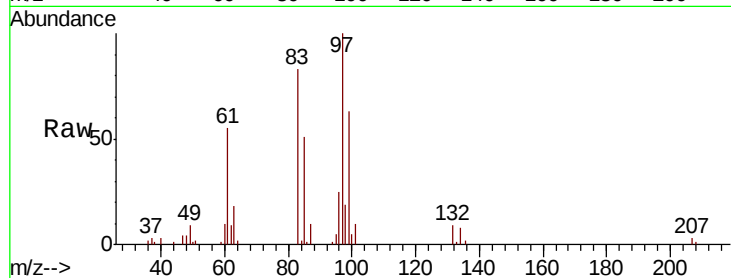




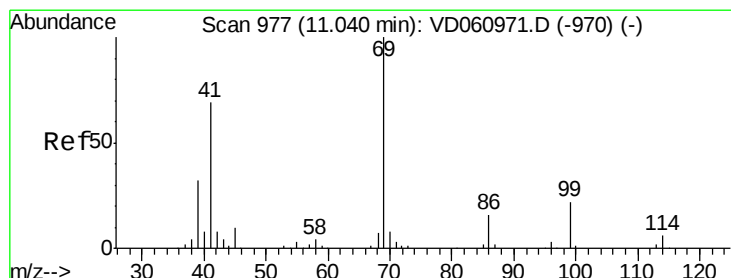
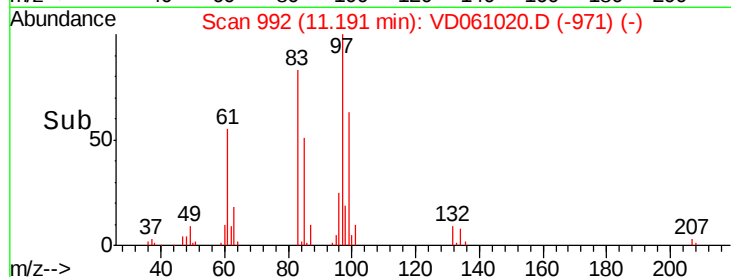
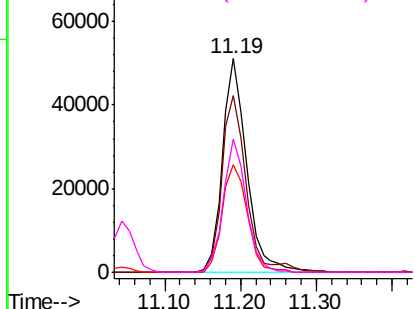
#55
 1,1,2-Trichloroethane
 Concen: 22.207 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion: 97 Resp: 113662
 Ion Ratio Lower Upper
 97 100
 83 82.6 66.6 100.0
 85 50.6 46.4 69.6
 99 62.6 52.4 78.6

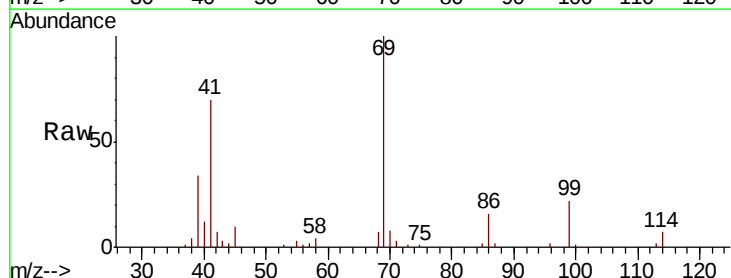


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

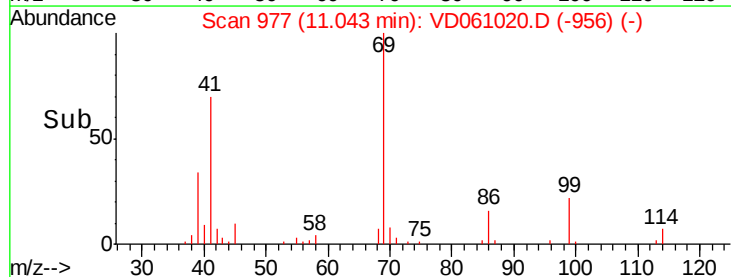
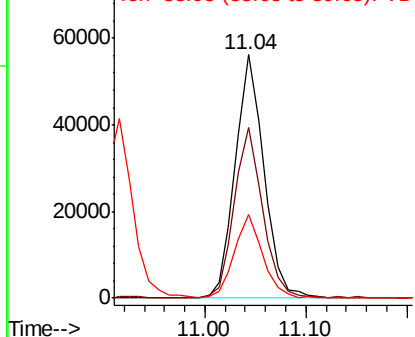


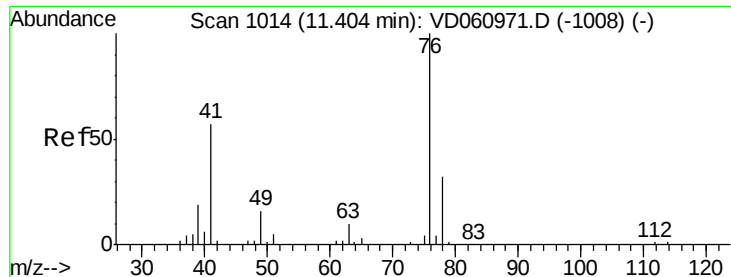
#56
 Ethyl methacrylate
 Concen: 20.898 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 69 Resp: 111959
 Ion Ratio Lower Upper
 69 100
 41 70.1 55.5 83.3
 39 34.4 26.2 39.2



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC

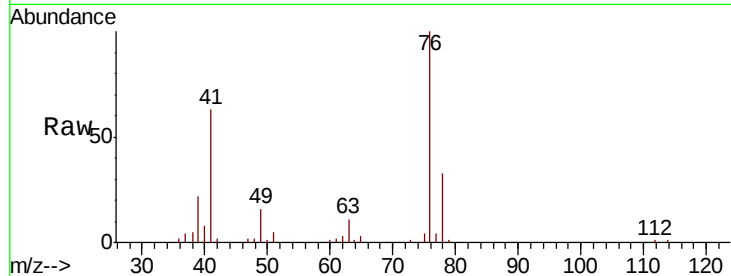




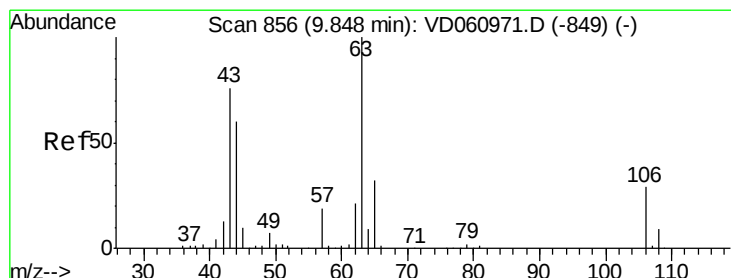
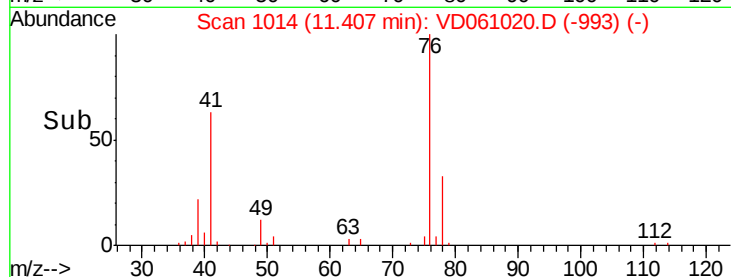
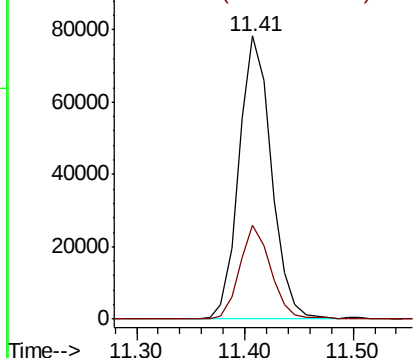
#57
 1,3-Dichloropropane
 Concen: 21.304 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion: 76 Resp: 162946
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.4 38.0

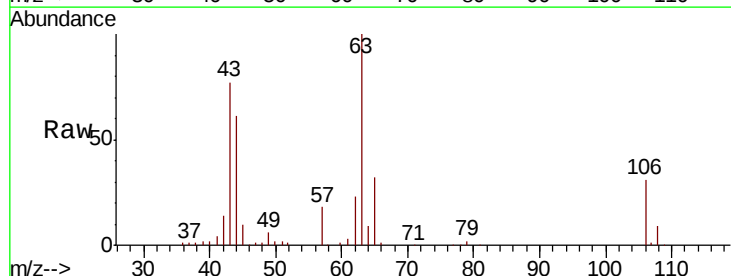


Abundance Ion 75.95 (75.65 to 76.65): VDC
 Ion 77.95 (77.65 to 78.65): VDC

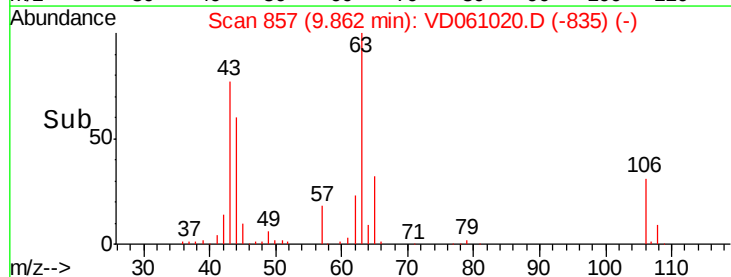
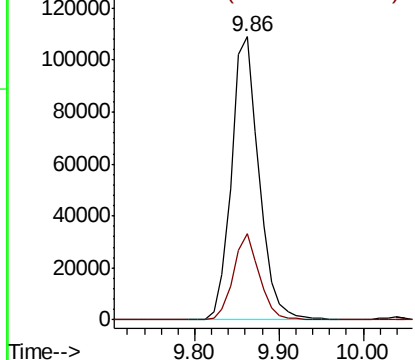


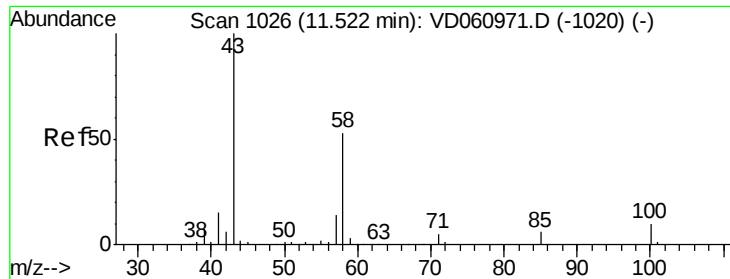
#58
 2-Chloroethyl Vinyl ether
 Concen: 87.662 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 63 Resp: 248593
 Ion Ratio Lower Upper
 63 100
 106 30.7 22.8 34.2



Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 105.95 (105.65 to 106.65): V

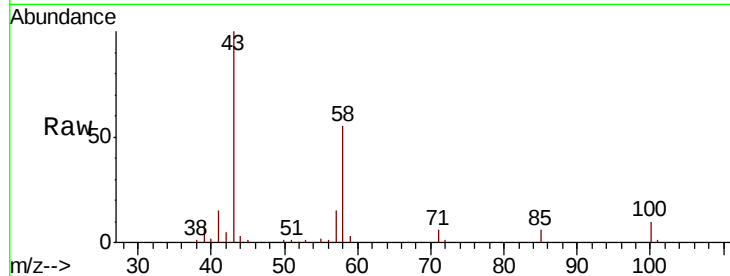




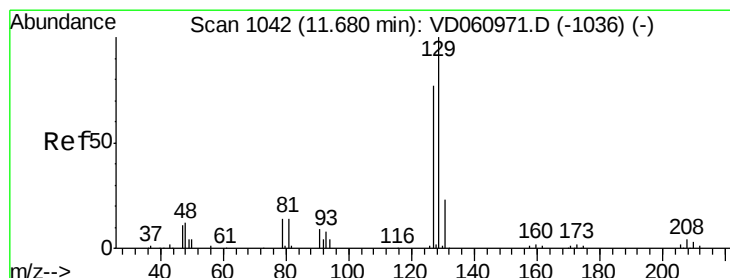
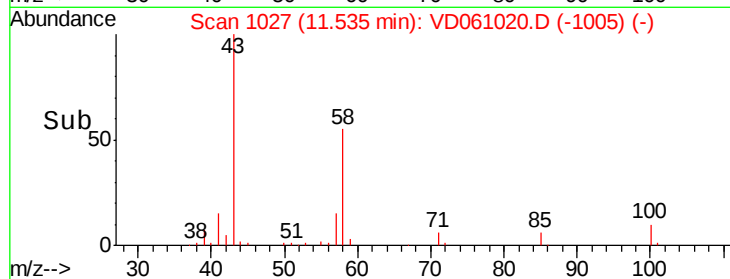
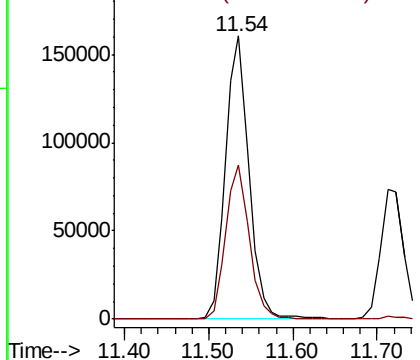
#59
2-Hexanone
Concen: 107.951 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

Tgt Ion: 43 Resp: 311005
Ion Ratio Lower Upper
43 100
58 54.5 26.5 79.5

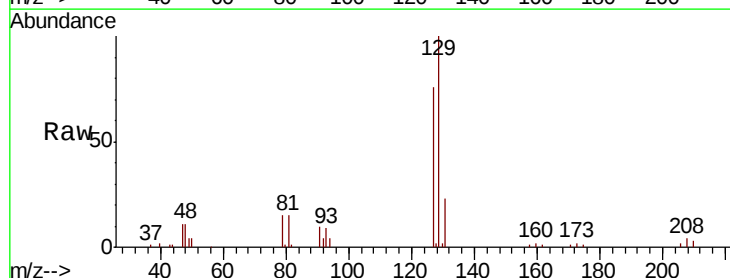


Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-1020) (-)
Ion 57.95 (57.65 to 58.65): VD060971.D (-1020) (-)

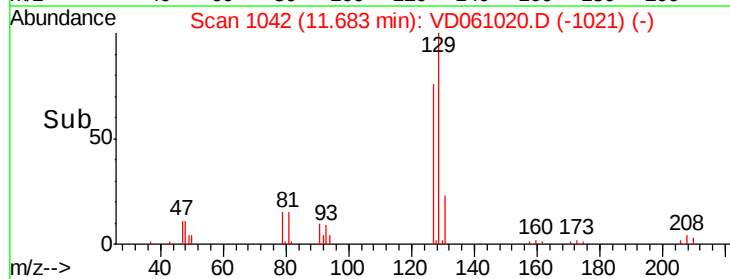
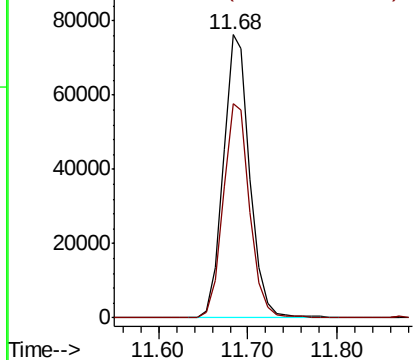


#60
Dibromochloromethane
Concen: 21.050 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 129 Resp: 158560
Ion Ratio Lower Upper
129 100
127 75.8 38.3 114.9



Abundance Ion 128.80 (128.50 to 129.50): VD060971.D (-1036) (-)
Ion 126.80 (126.50 to 127.50): VD060971.D (-1036) (-)

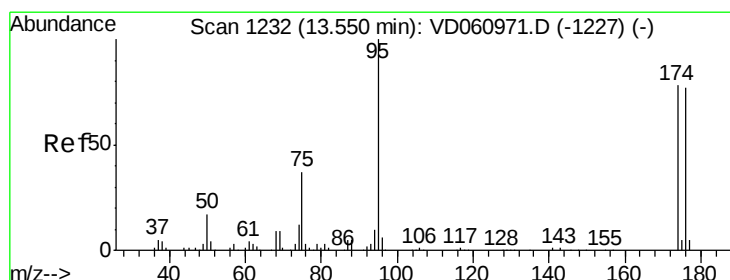
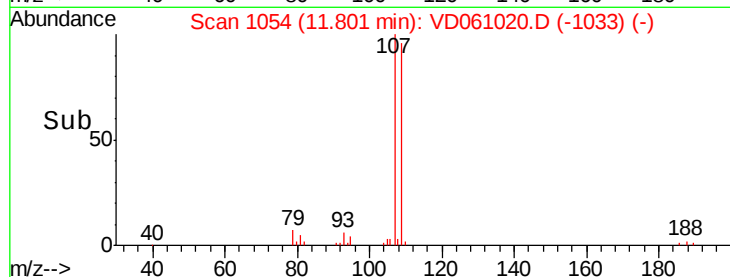
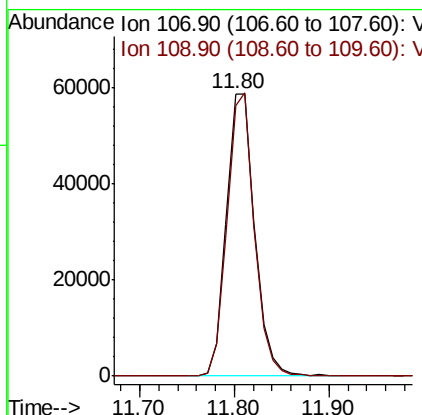
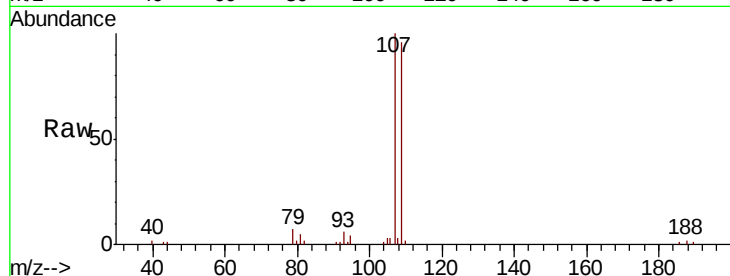




#61
 1,2-Dibromoethane
 Concen: 20.410 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

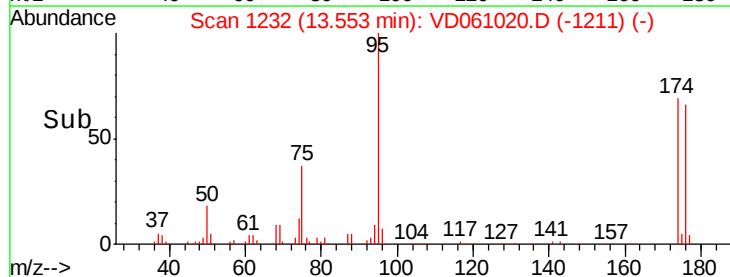
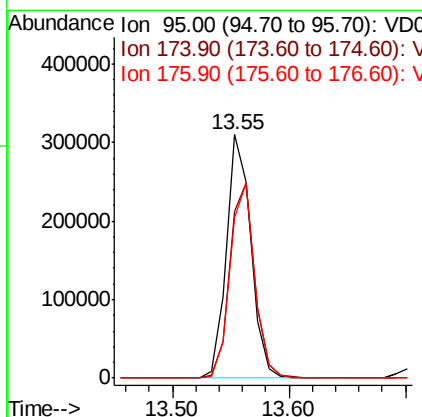
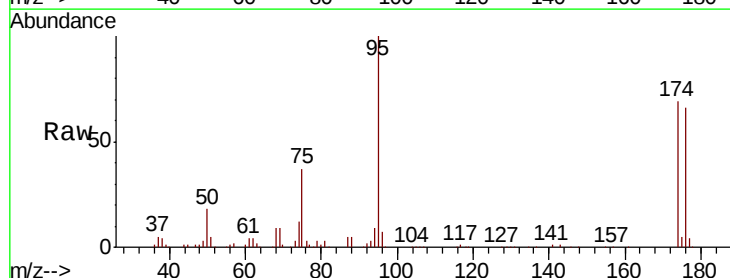
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

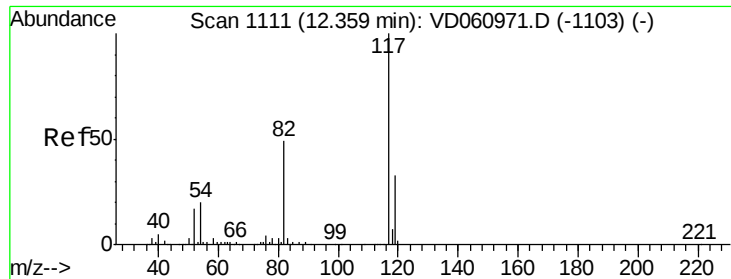
Tgt Ion: 107 Resp: 121524
 Ion Ratio Lower Upper
 107 100
 109 95.9 75.6 113.4



#62
 4-Bromofluorobenzene
 Concen: 20.410 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 95 Resp: 450003
 Ion Ratio Lower Upper
 95 100
 174 68.6 0.0 155.6
 176 66.0 0.0 153.8

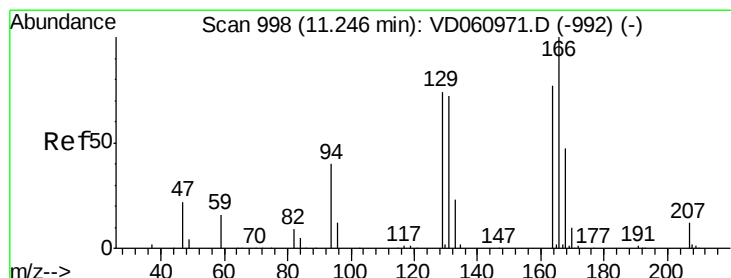
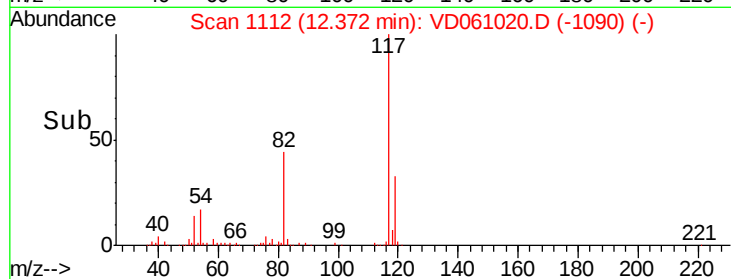
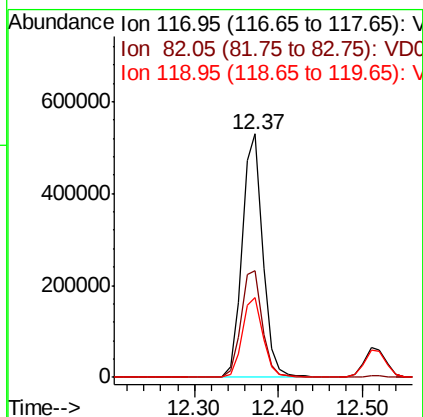
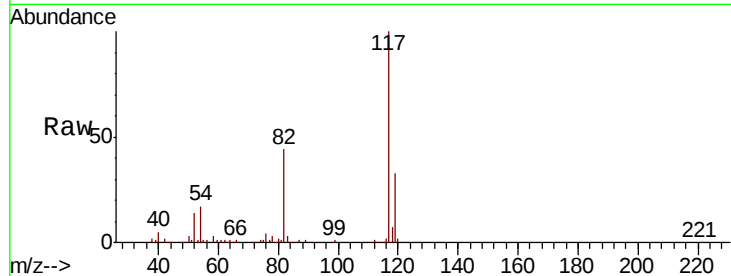




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

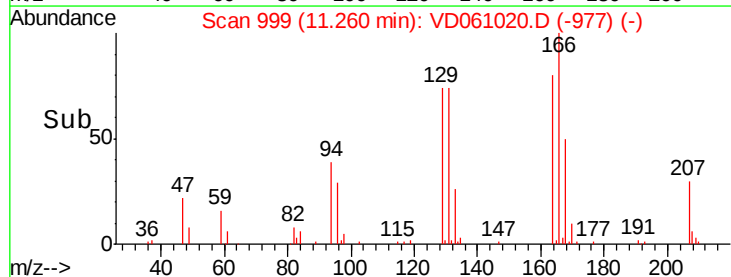
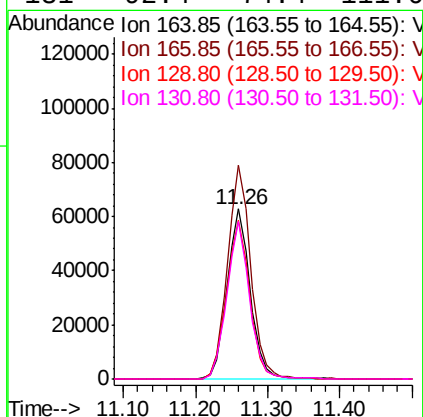
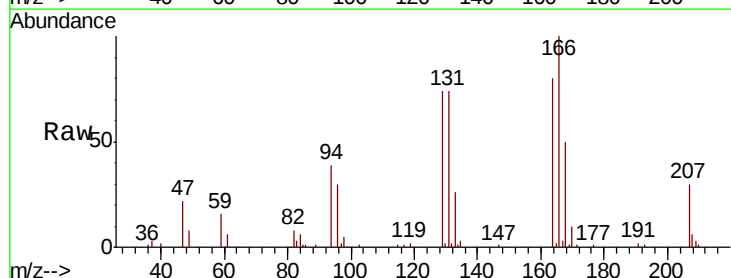
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

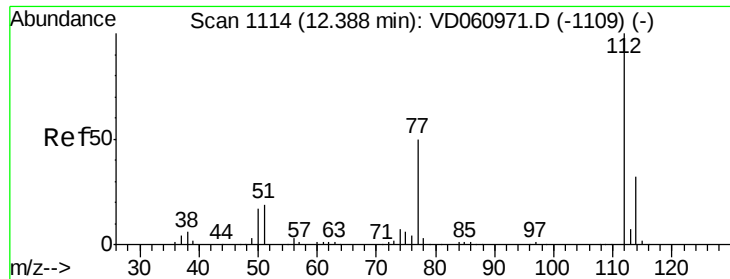
Tgt Ion:117 Resp: 903255
Ion Ratio Lower Upper
117 100
82 43.9 38.9 58.3
119 32.5 26.6 39.8



#64
Tetrachloroethene
Concen: 22.925 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion:164 Resp: 139784
Ion Ratio Lower Upper
164 100
166 125.7 103.4 155.0
129 93.4 76.9 115.3
131 92.4 74.4 111.6

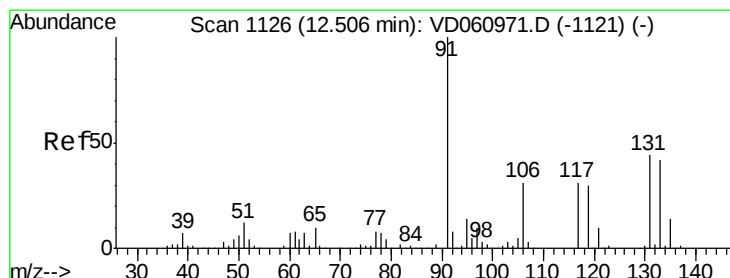
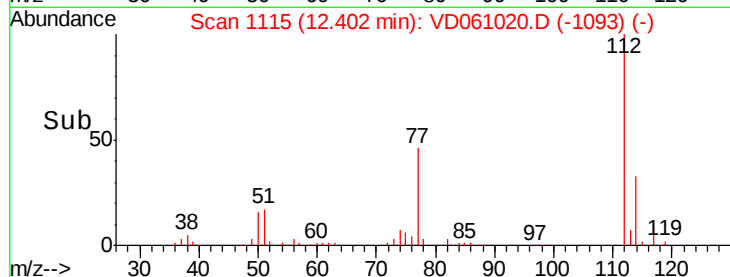
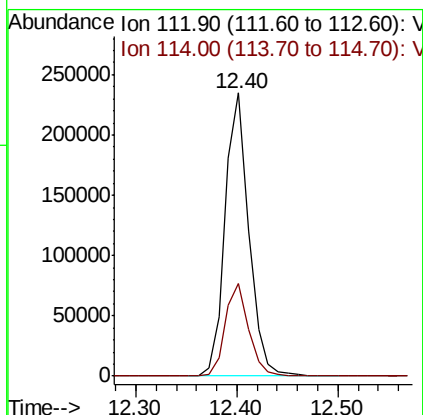
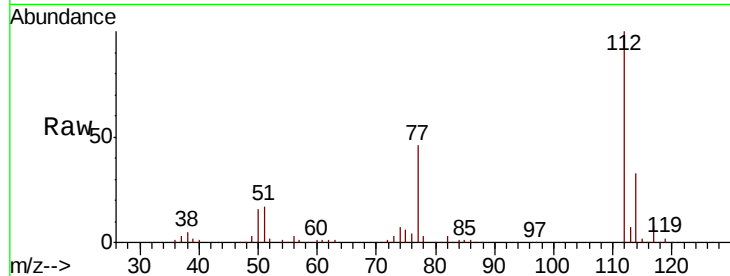




#65
Chlorobenzene
Concen: 21.697 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

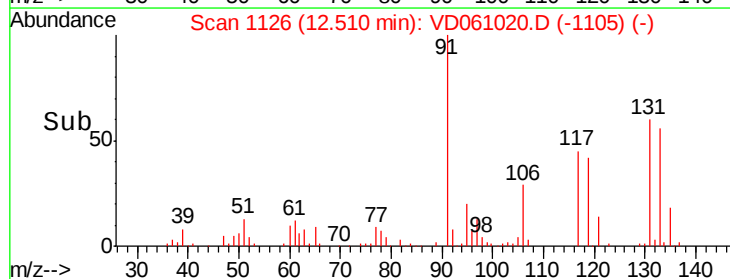
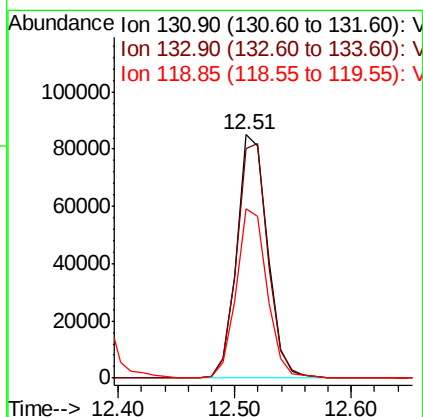
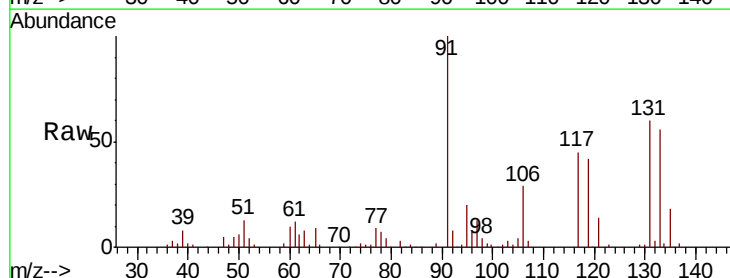
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

Tgt Ion:112 Resp: 384196
Ion Ratio Lower Upper
112 100
114 32.7 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 24.637 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion:131 Resp: 155510
Ion Ratio Lower Upper
131 100
133 94.1 47.8 143.3
119 69.6 34.3 102.9

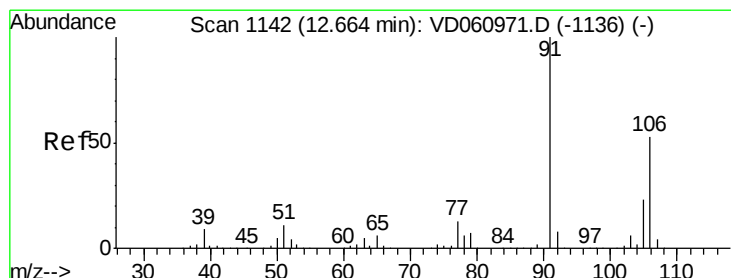
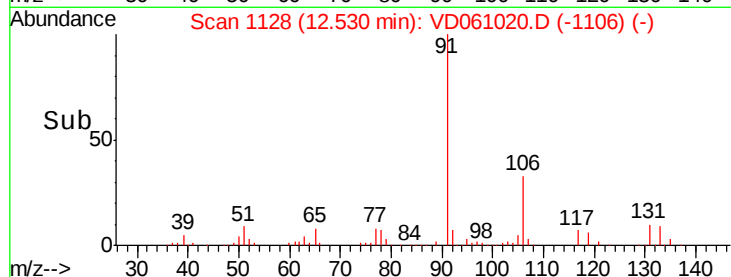
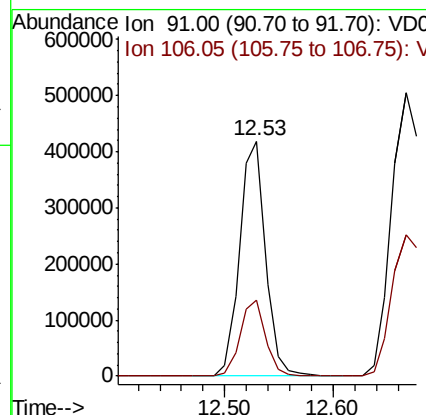
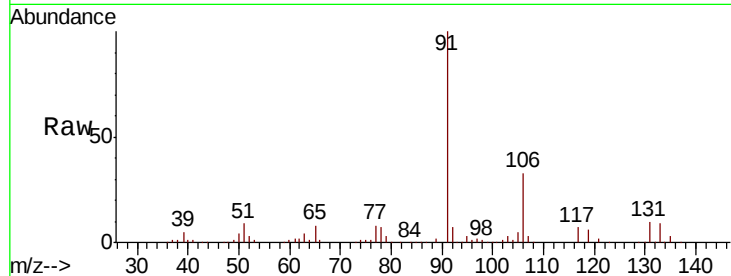




#67
Ethyl Benzene
Concen: 26.332 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

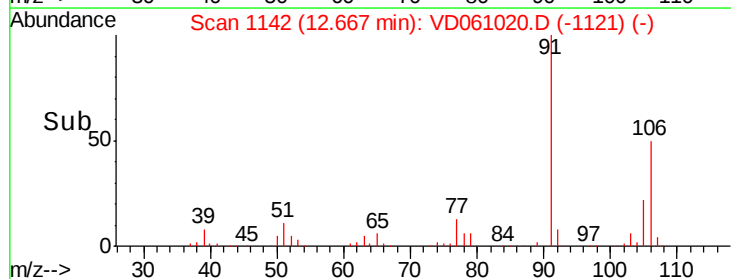
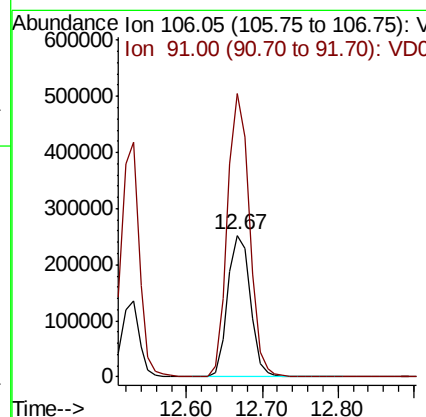
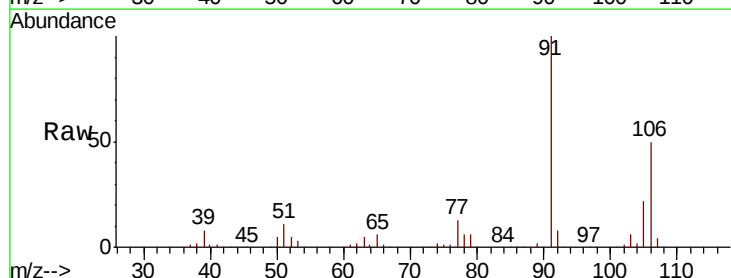
Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

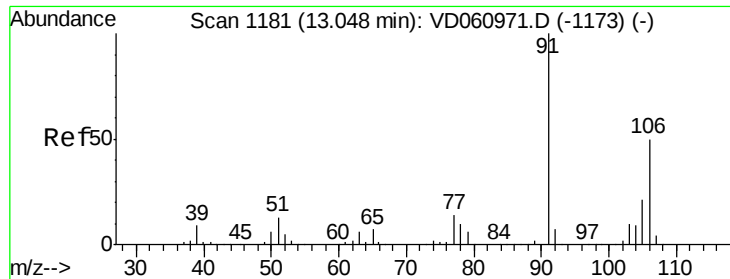
Tgt Ion: 91 Resp: 694167
Ion Ratio Lower Upper
91 100
106 32.6 25.7 38.5



#68
m/p-Xylenes
Concen: 50.700 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion: 106 Resp: 524591
Ion Ratio Lower Upper
106 100
91 199.8 152.0 228.0

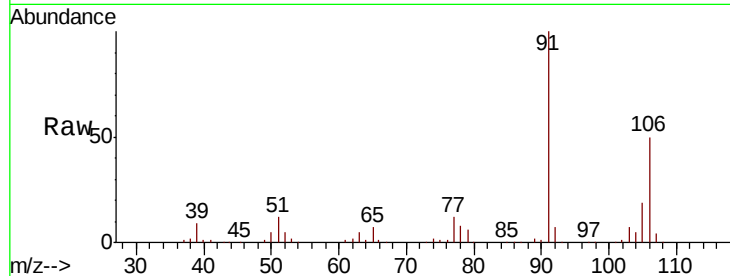




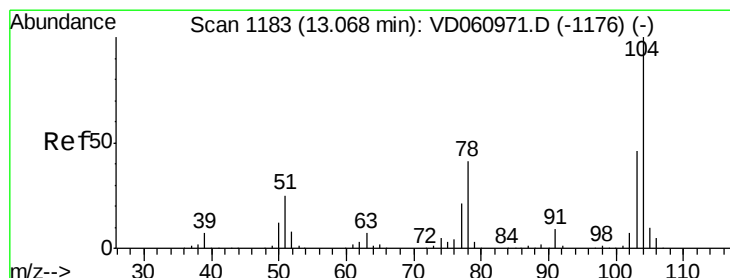
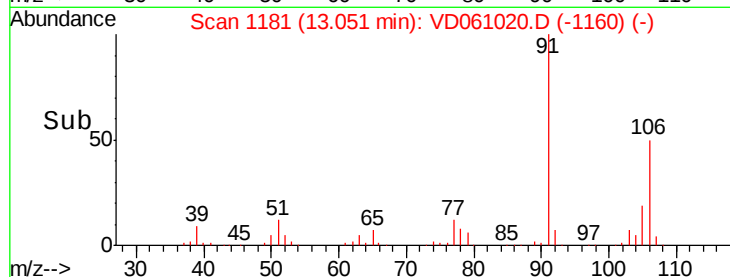
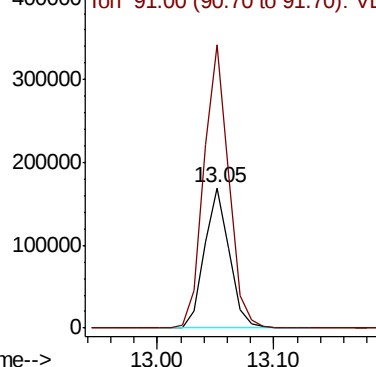
#69
o-Xylene
Concen: 24.532 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

Tgt Ion:106 Resp: 249506
Ion Ratio Lower Upper
106 100
91 202.0 99.8 299.3

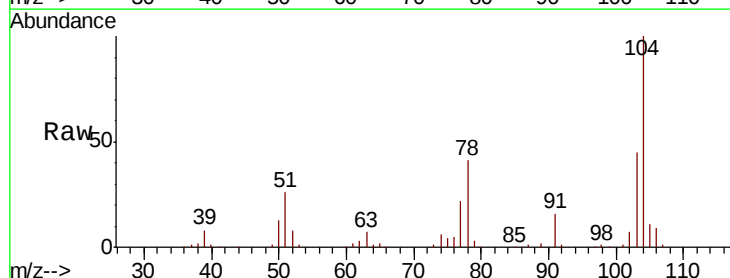


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

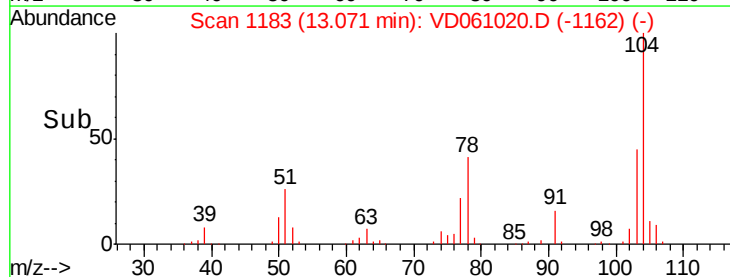
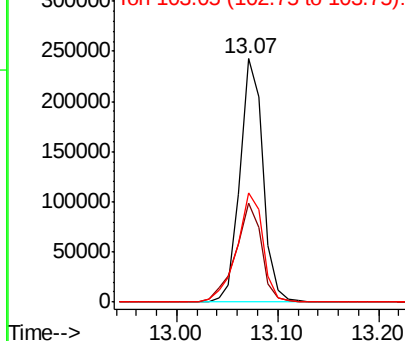


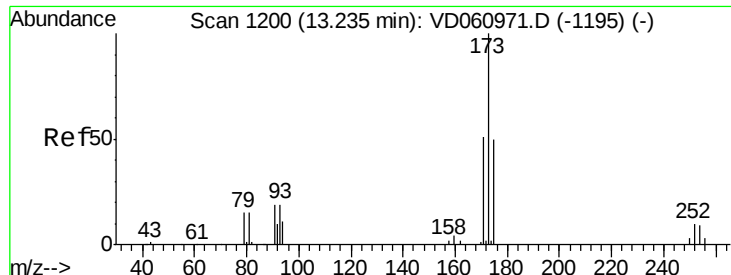
#70
Styrene
Concen: 23.131 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion:104 Resp: 384148
Ion Ratio Lower Upper
104 100
78 40.6 33.0 49.4
103 45.0 37.1 55.7



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

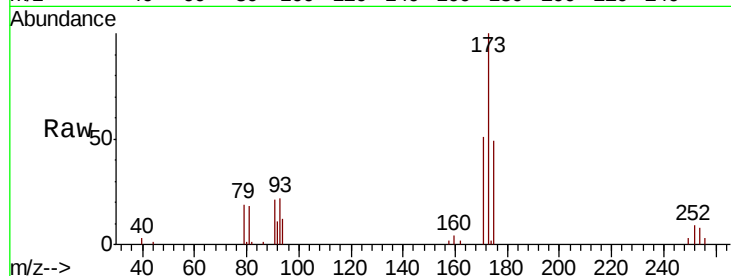




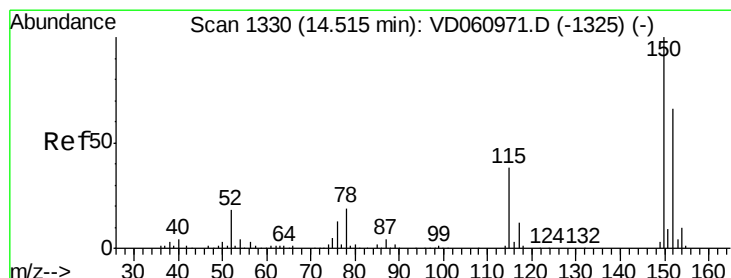
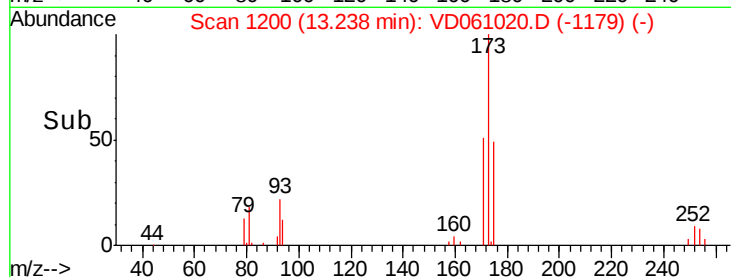
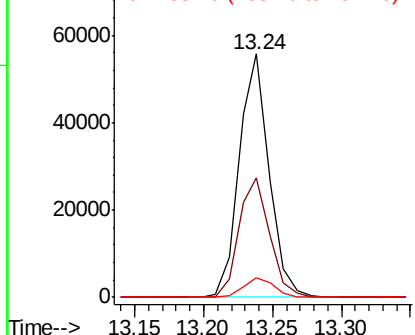
#71
Bromoform
Concen: 20.659 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

Tgt Ion:173 Resp: 84122
Ion Ratio Lower Upper
173 100
175 48.8 24.9 74.8
254 7.9 7.3 10.9

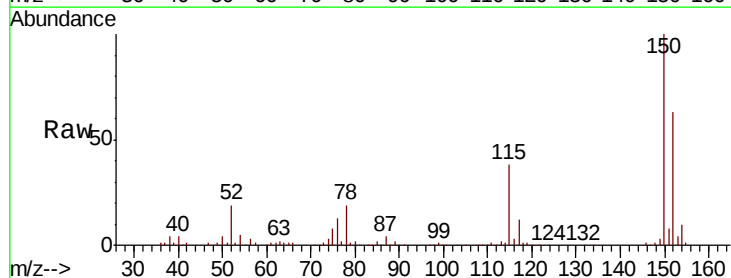


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

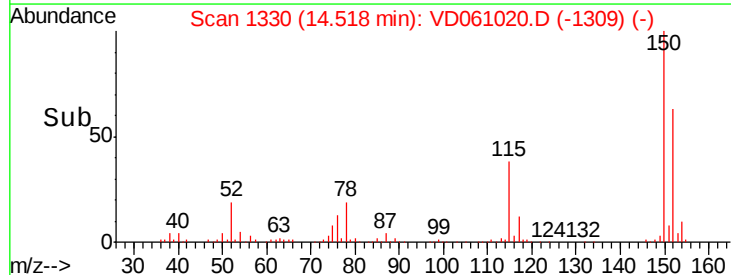
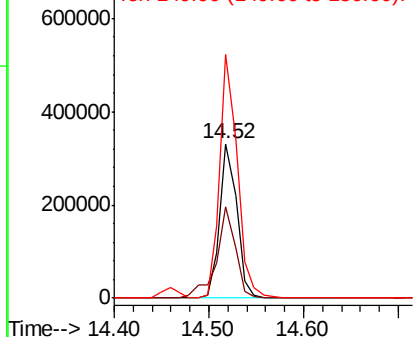


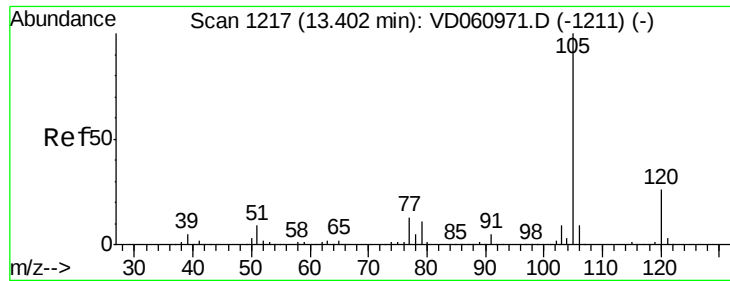
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion:152 Resp: 413533
Ion Ratio Lower Upper
152 100
115 59.3 28.6 85.9
150 158.1 0.0 310.6



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: 22.168 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

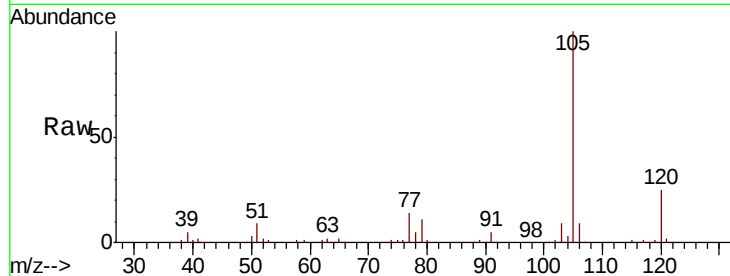
VD0312SBS01

Tgt Ion: 105 Resp: 660669

Ion Ratio Lower Upper

105 100

120 25.4 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

500000

400000

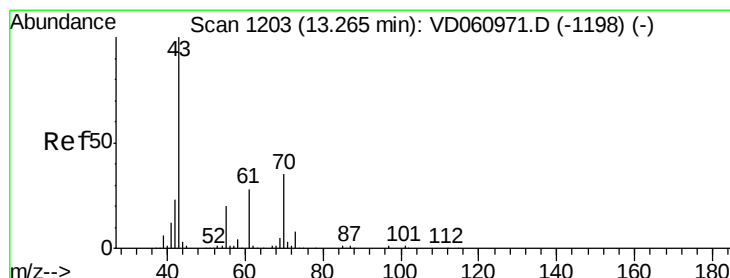
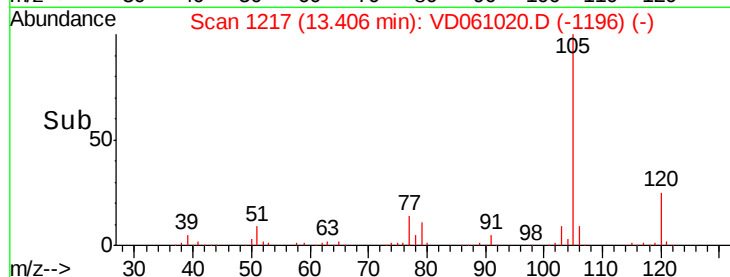
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 19.734 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Tgt Ion: 43 Resp: 165599

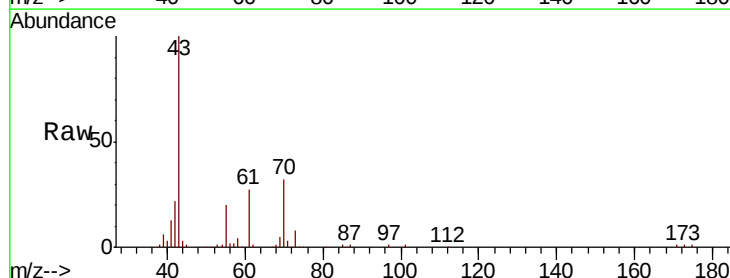
Ion Ratio Lower Upper

43 100

70 32.4 27.7 41.5

55 19.9 16.2 24.2

61 26.9 22.3 33.5



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

13.27

200000

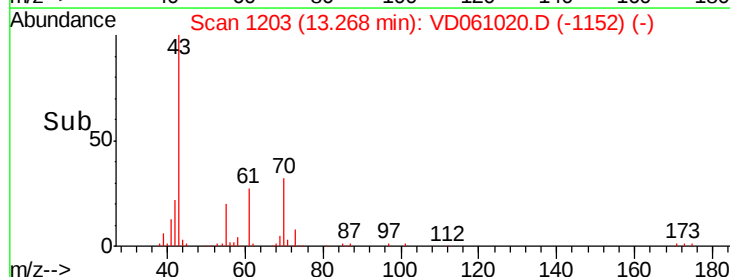
150000

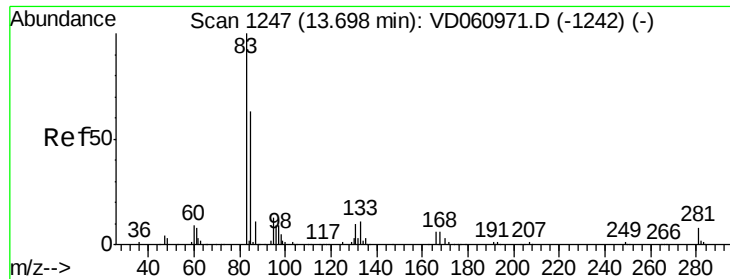
100000

50000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 20.366 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

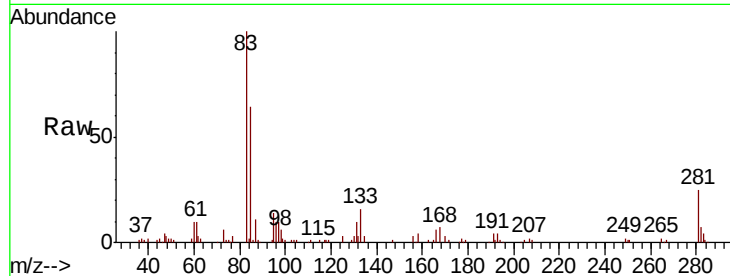
Tgt Ion: 83 Resp: 118420

Ion Ratio Lower Upper

83 100

131 10.2 5.1 15.3

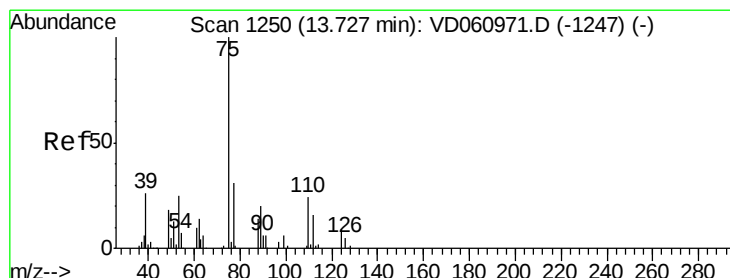
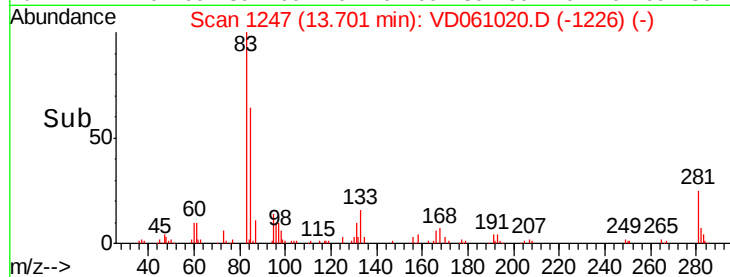
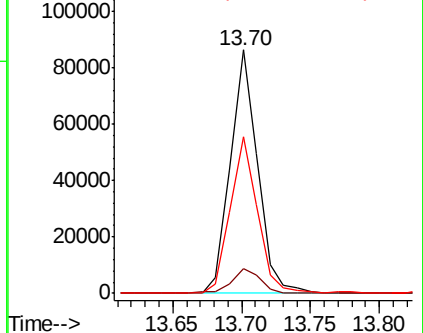
85 64.3 31.5 94.5



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: 21.119 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD061020.D

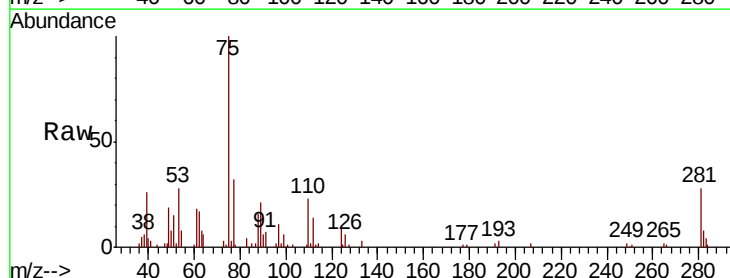
Acq: 12 Mar 2019 13:24

Tgt Ion: 75 Resp: 125645

Ion Ratio Lower Upper

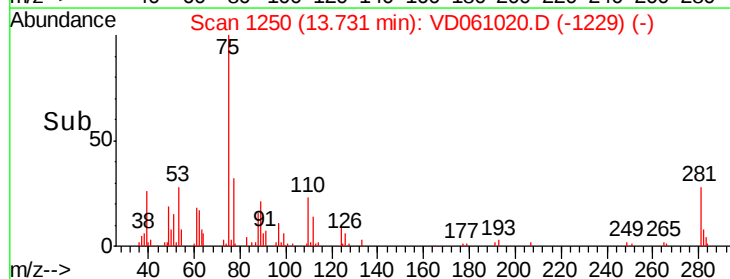
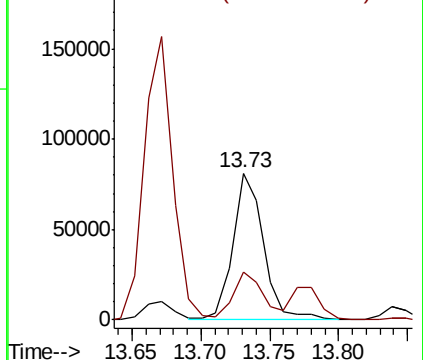
75 100

77 32.4 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.484 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

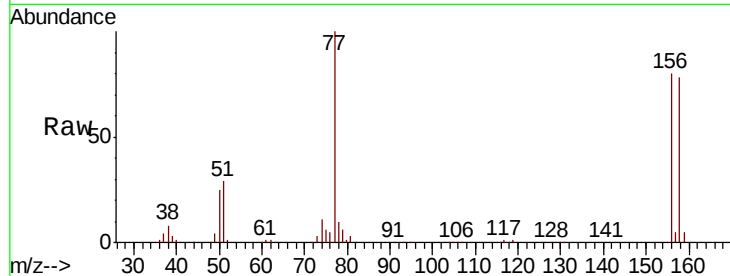
Tgt Ion:156 Resp: 171048

Ion Ratio Lower Upper

156 100

77 124.3 55.5 166.7

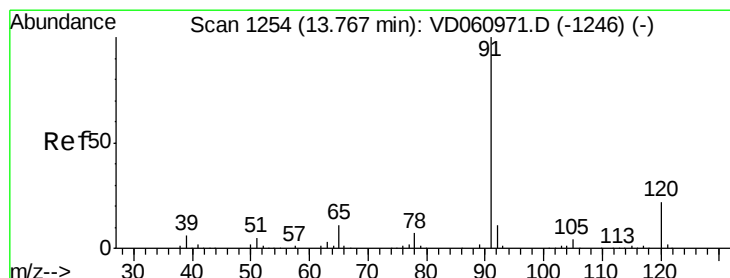
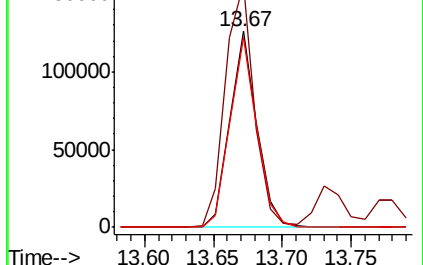
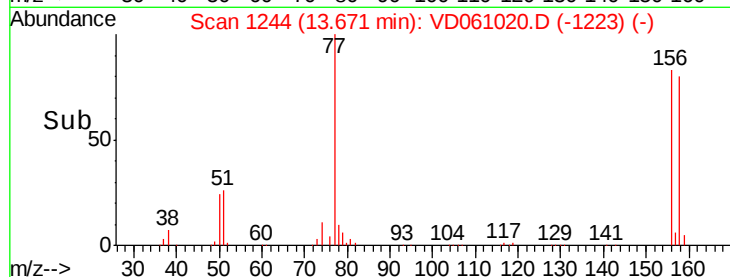
158 96.7 49.0 147.0



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: 22.884 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061020.D

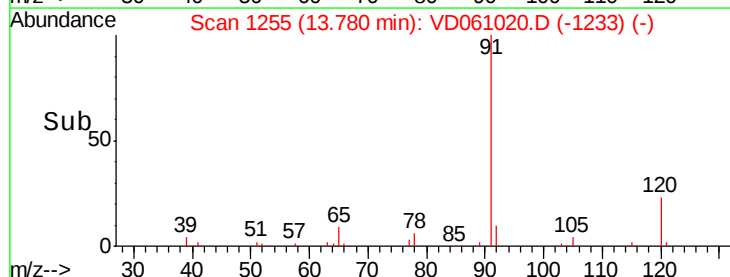
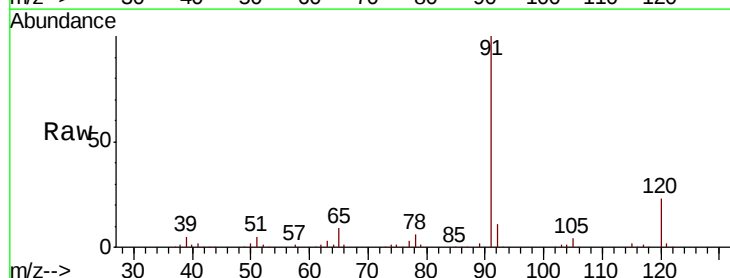
Acq: 12 Mar 2019 13:24

Tgt Ion: 91 Resp: 798409

Ion Ratio Lower Upper

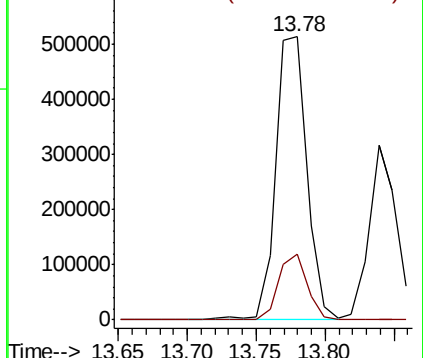
91 100

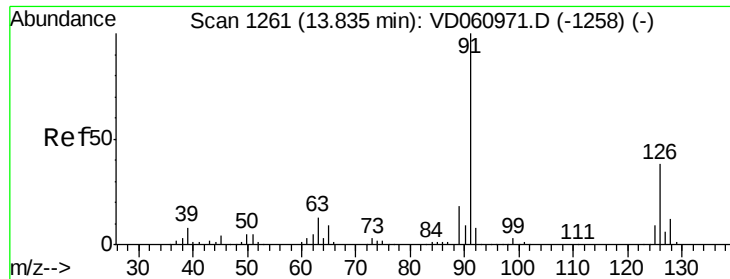
120 23.4 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 22.640 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

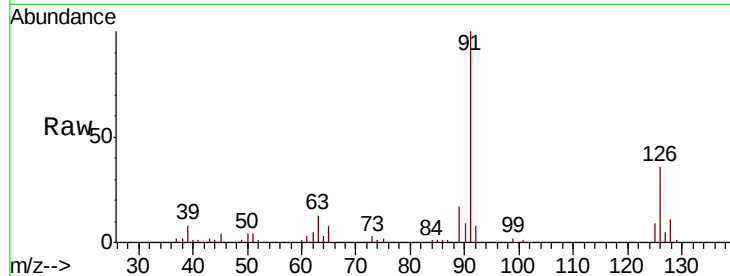
VD0312SBS01

Tgt Ion: 91 Resp: 434880

Ion Ratio Lower Upper

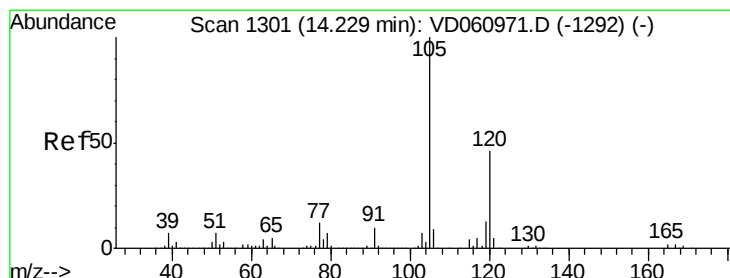
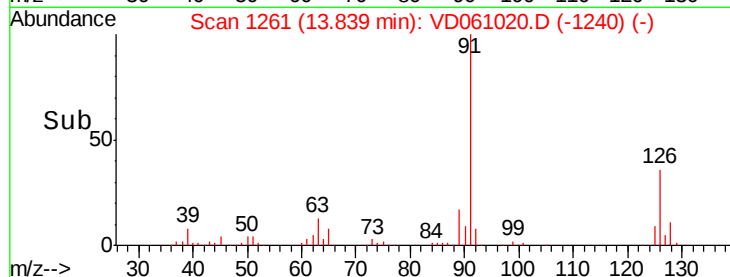
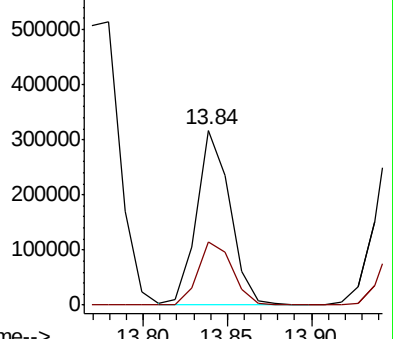
91 100

126 36.0 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VD060971.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD060971.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.272 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061020.D

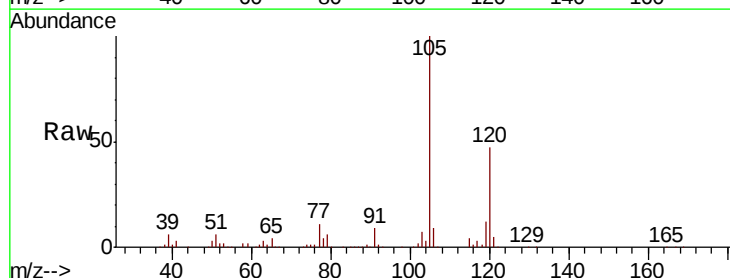
Acq: 12 Mar 2019 13:24

Tgt Ion: 105 Resp: 481280

Ion Ratio Lower Upper

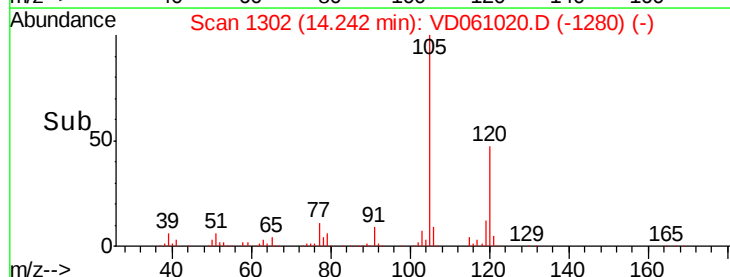
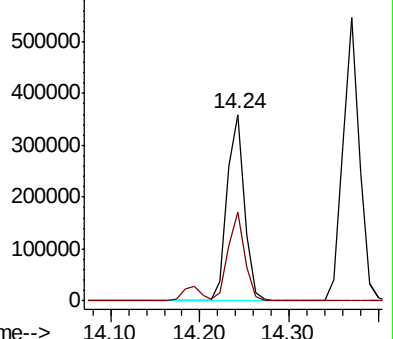
105 100

120 47.4 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060971.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD060971.D (-1292) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 21.105 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

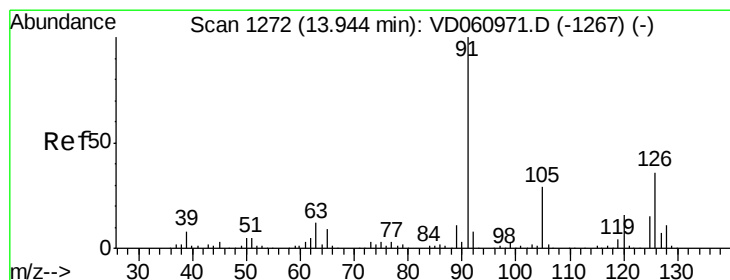
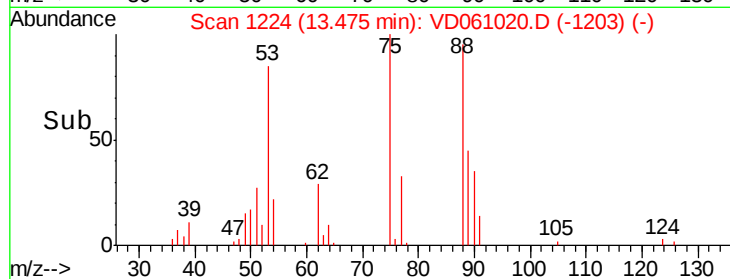
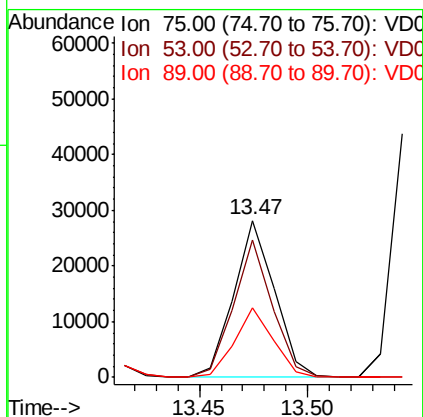
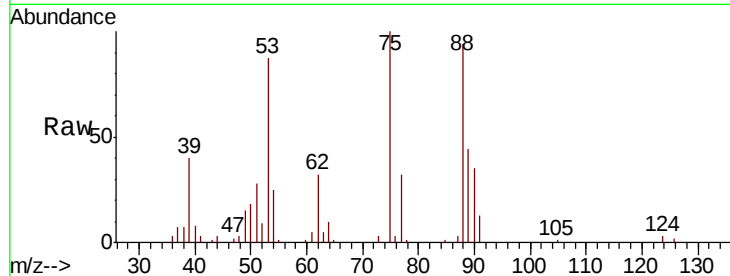
Tgt Ion: 75 Resp: 37019

Ion Ratio Lower Upper

75 100

53 87.4 64.4 96.6

89 44.1 34.8 52.2



#82

4-Chlorotoluene

Concen: 20.484 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD061020.D

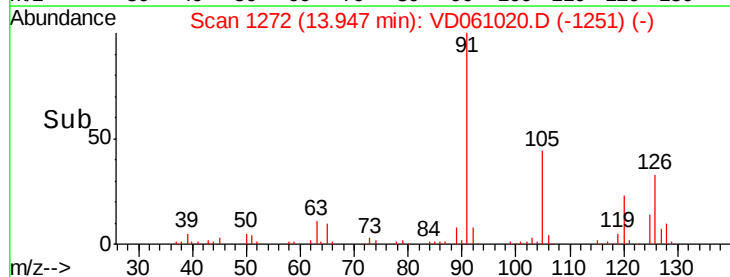
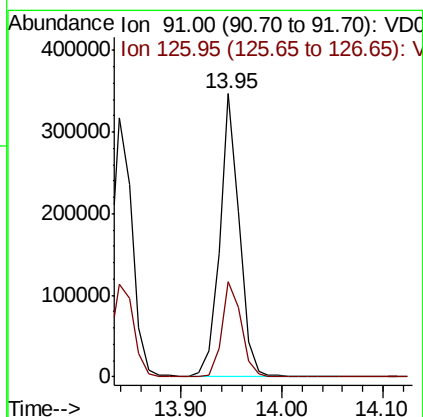
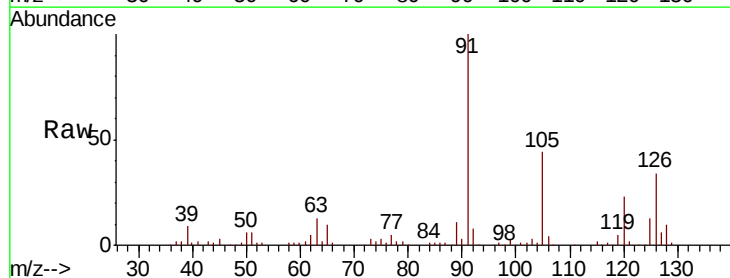
Acq: 12 Mar 2019 13:24

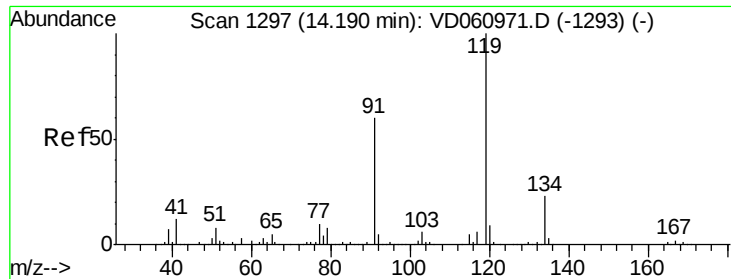
Tgt Ion: 91 Resp: 465139

Ion Ratio Lower Upper

91 100

126 33.6 18.0 54.0

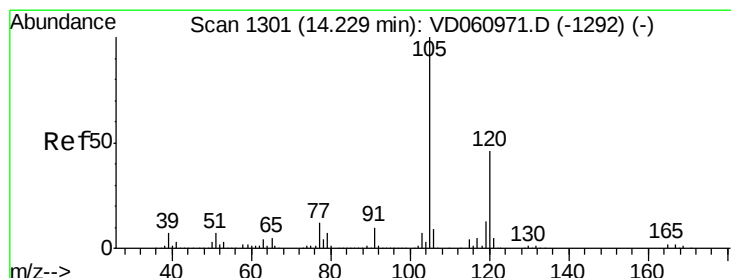
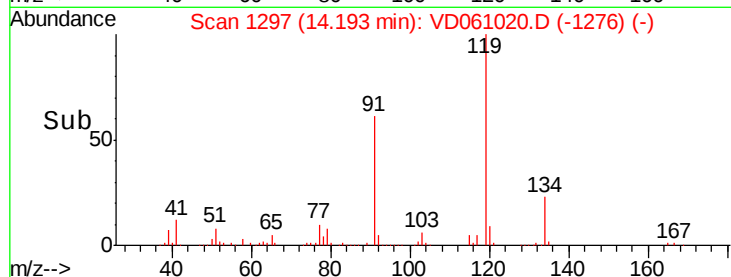
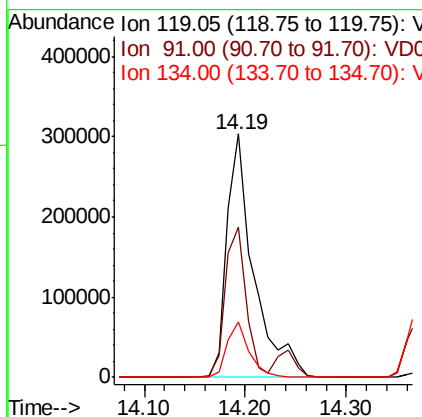
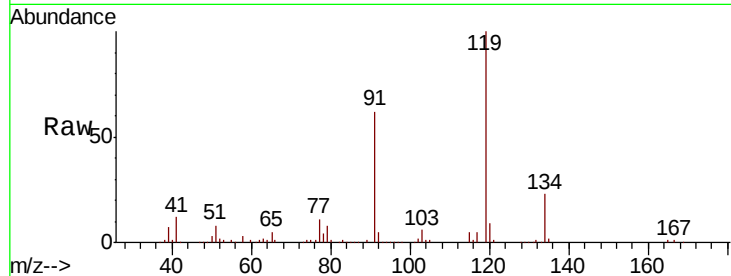




#83
 tert-Butylbenzene
 Concen: 22.585 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

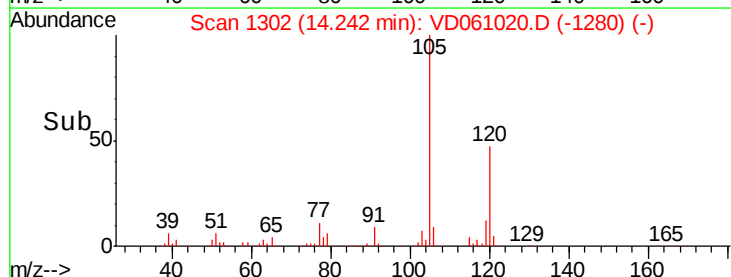
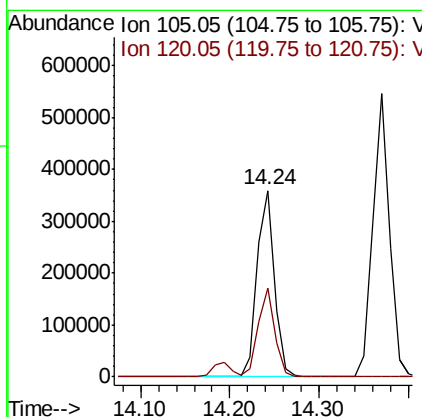
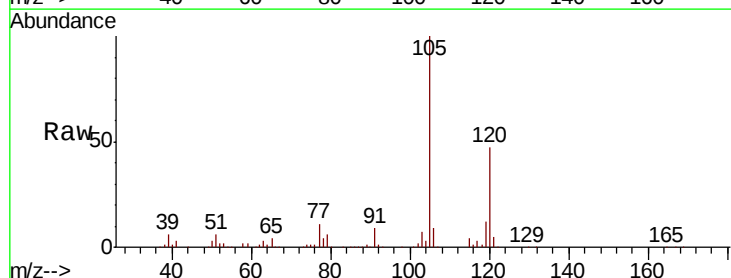
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

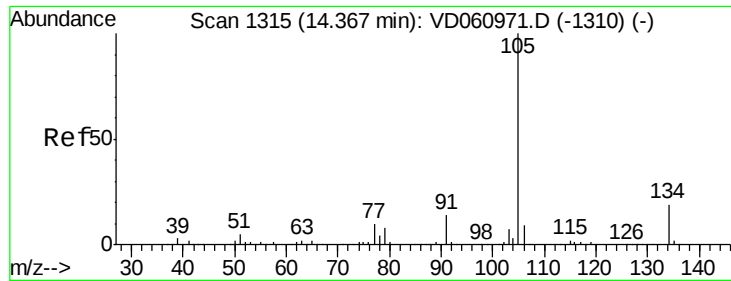
Tgt Ion:119 Resp: 559205
 Ion Ratio Lower Upper
 119 100
 91 61.7 30.1 90.3
 134 22.9 11.6 34.7



#84
 1,2,4-Trimethylbenzene
 Concen: 21.272 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion:105 Resp: 481280
 Ion Ratio Lower Upper
 105 100
 120 47.4 22.9 68.5

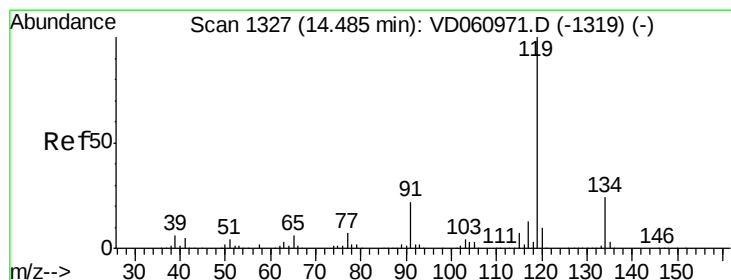
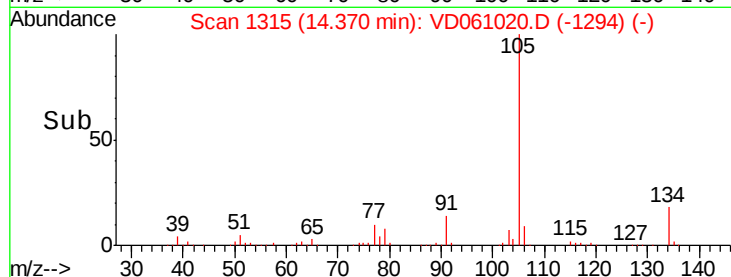
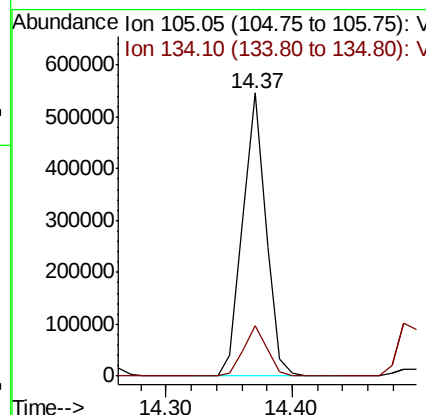
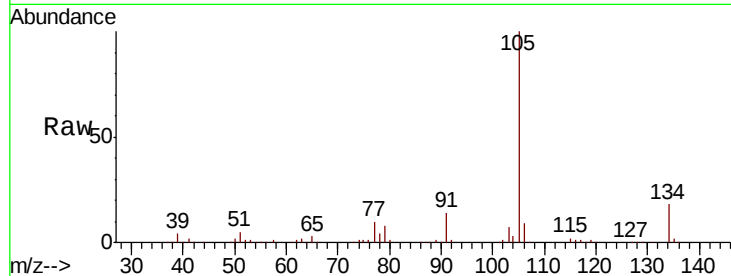




#85
 sec-Butylbenzene
 Concen: 22.909 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

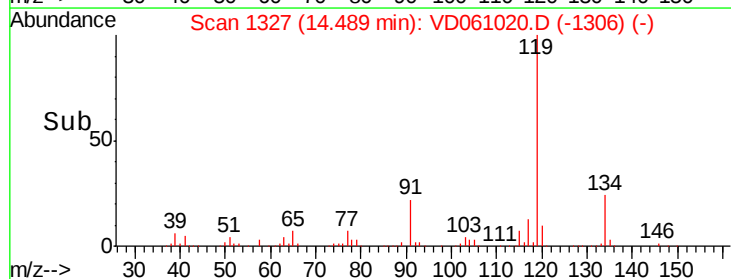
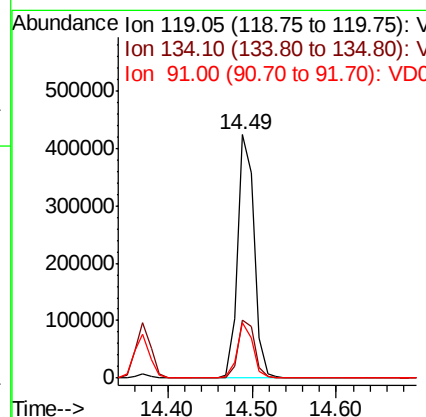
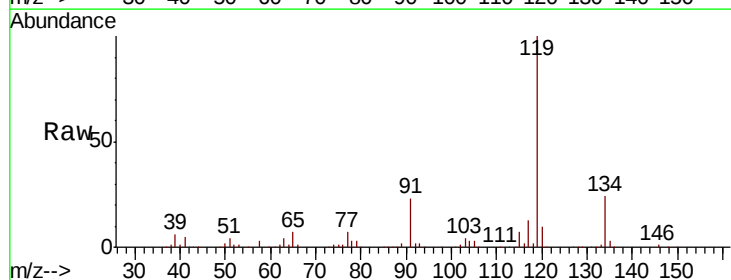
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion:105 Resp: 692490
 Ion Ratio Lower Upper
 105 100
 134 17.7 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 23.280 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion:119 Resp: 575193
 Ion Ratio Lower Upper
 119 100
 134 23.9 12.0 36.1
 91 22.6 11.2 33.6

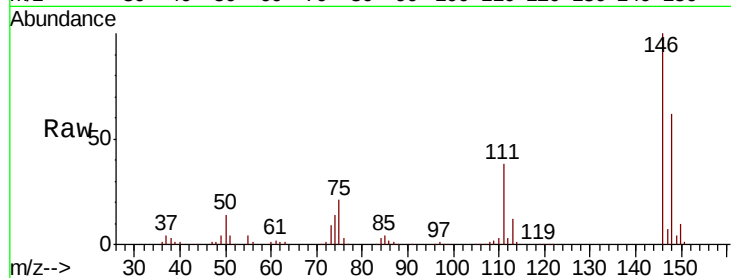




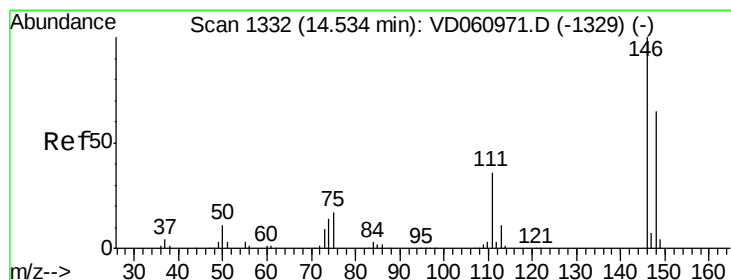
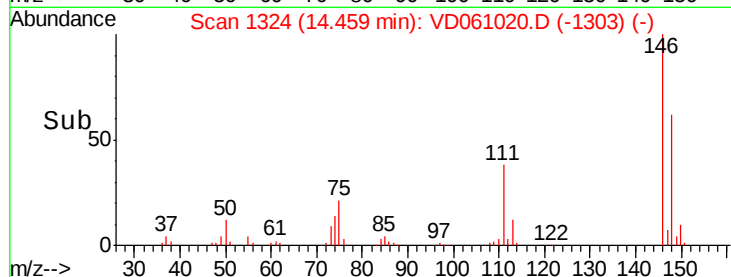
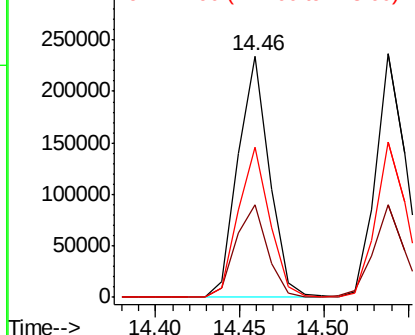
#87
 1,3-Dichlorobenzene
 Concen: 22.266 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion:146 Resp: 302470
 Ion Ratio Lower Upper
 146 100
 111 38.3 18.4 55.4
 148 62.3 32.5 97.4

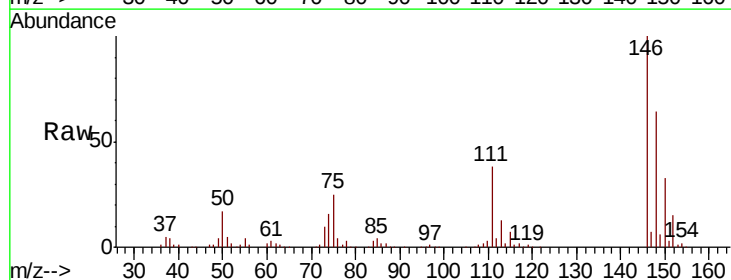


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

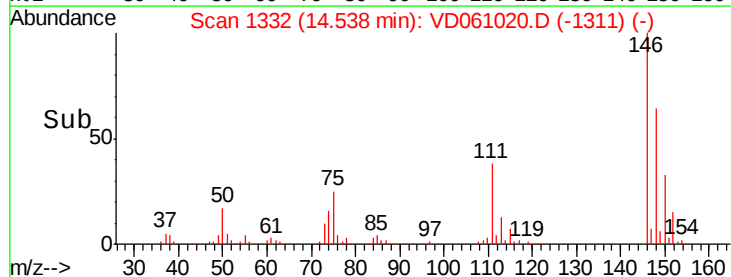
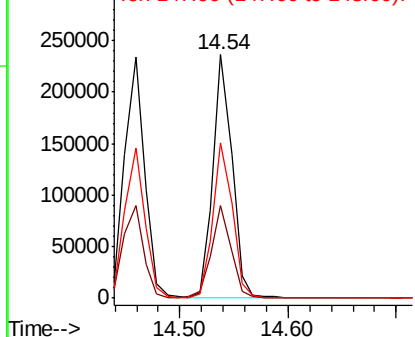


#88
 1,4-Dichlorobenzene
 Concen: 22.007 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion:146 Resp: 293787
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.4 55.2
 148 63.8 32.5 97.5



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: 20.933 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD061020.D

Acq: 12 Mar 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VD0312SBS01

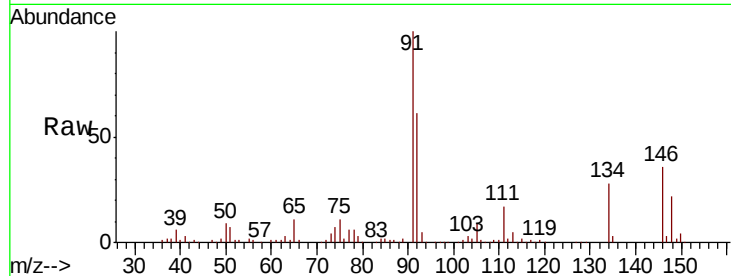
Tgt Ion: 91 Resp: 496689

Ion Ratio Lower Upper

91 100

92 61.0 30.6 91.8

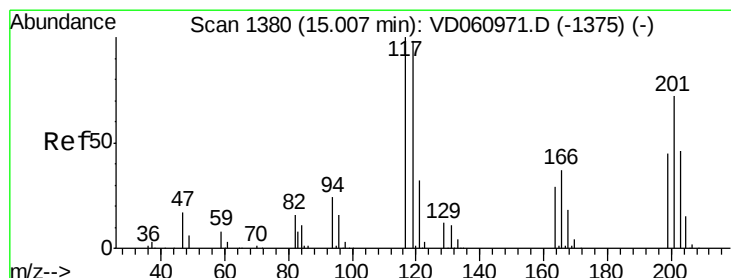
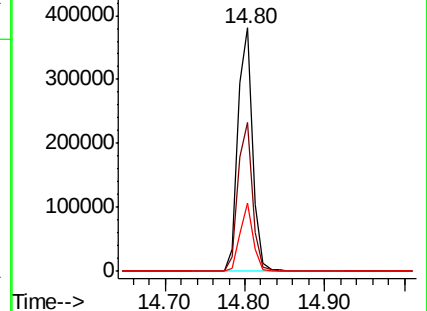
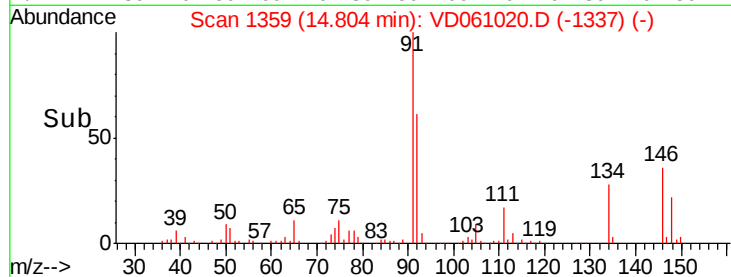
134 27.9 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 20.842 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD061020.D

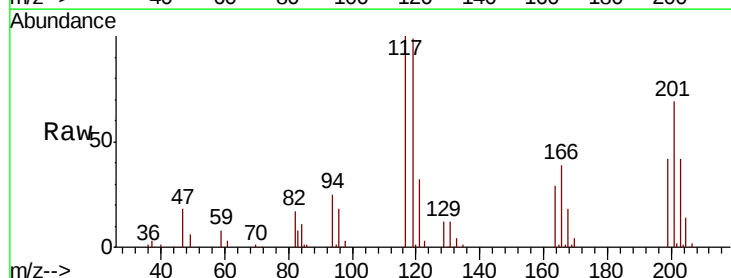
Acq: 12 Mar 2019 13:24

Tgt Ion: 117 Resp: 145414

Ion Ratio Lower Upper

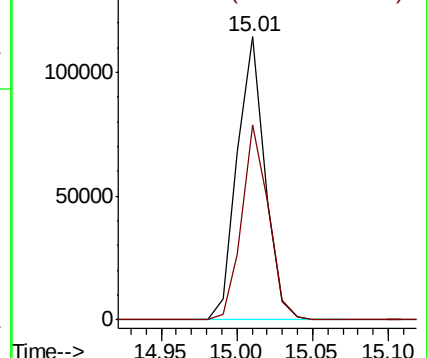
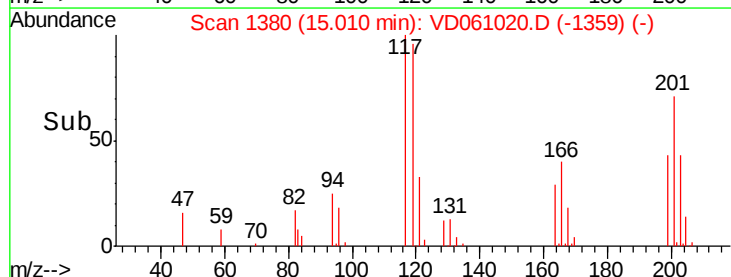
117 100

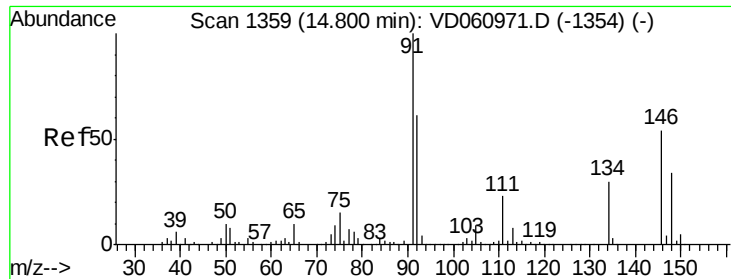
201 69.0 36.2 108.6



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

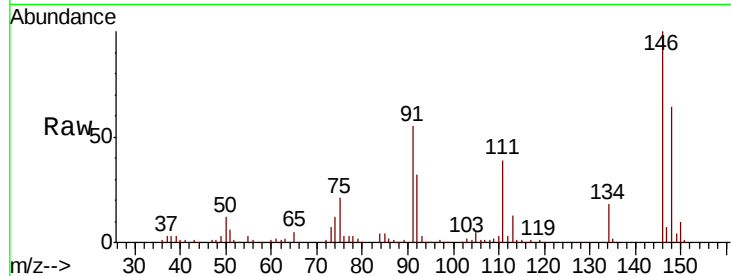




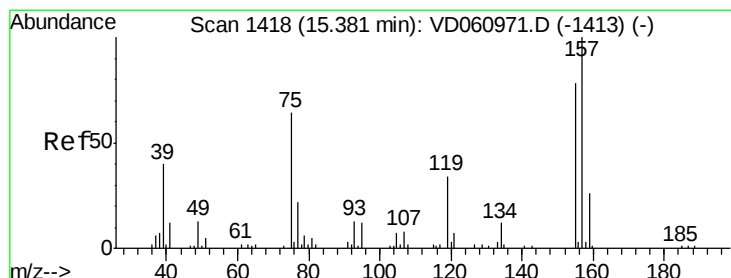
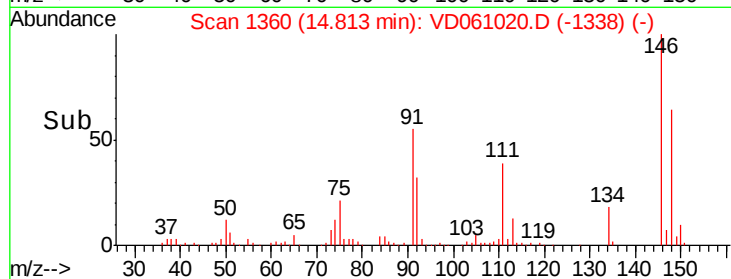
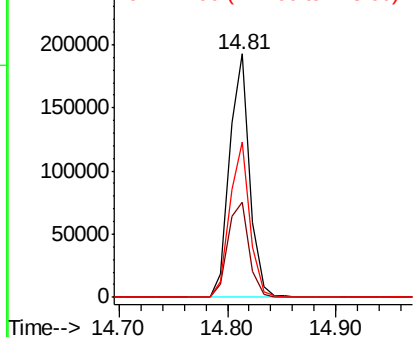
#91
 1,2-Dichlorobenzene
 Concen: 21.989 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion:146 Resp: 249022
 Ion Ratio Lower Upper
 146 100
 111 39.2 21.5 64.5
 148 64.0 30.9 92.8

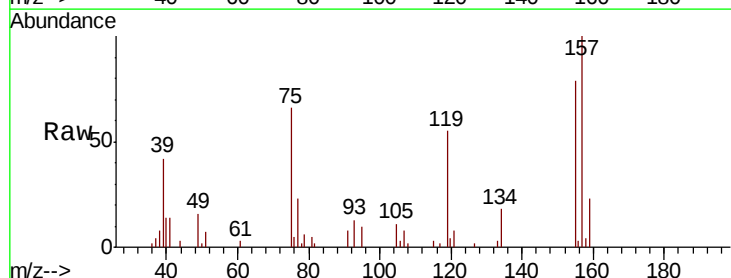


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

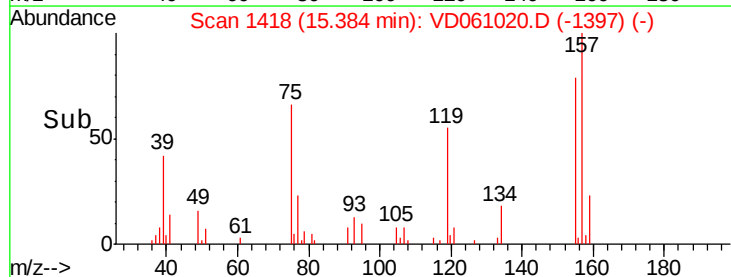
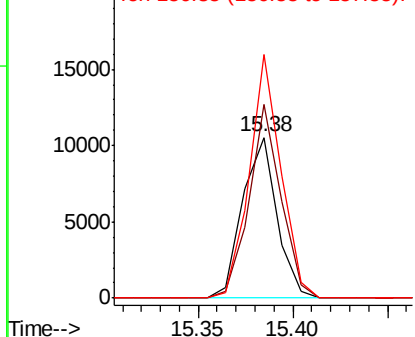


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.756 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion: 75 Resp: 13142
 Ion Ratio Lower Upper
 75 100
 155 119.9 61.2 183.5
 157 151.2 78.3 234.8



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

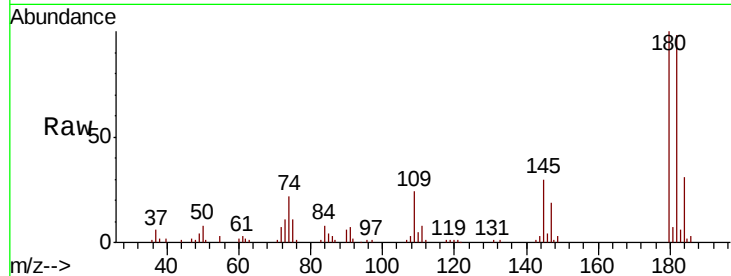




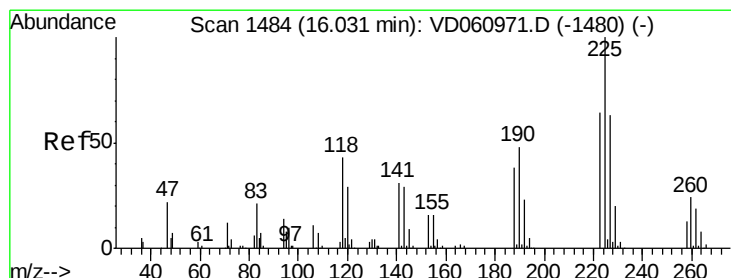
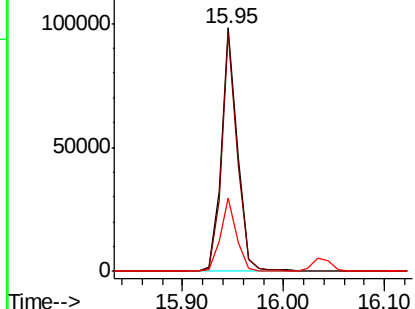
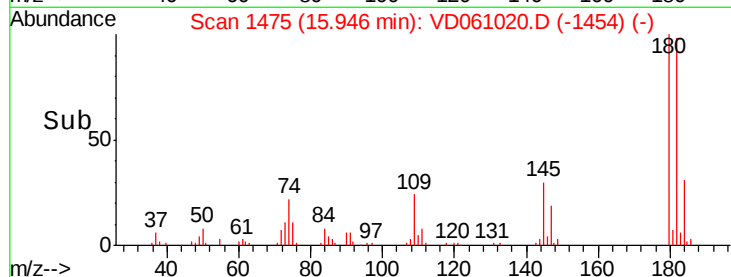
#93
 1,2,4-Trichlorobenzene
 Concen: 21.036 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0312SBS01

Tgt Ion:180 Resp: 110514
 Ion Ratio Lower Upper
 180 100
 182 97.7 47.3 142.0
 145 30.1 14.4 43.0

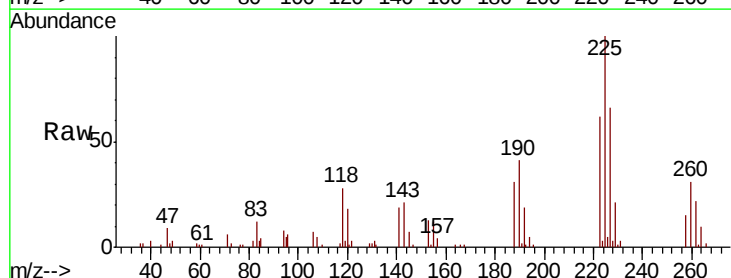


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

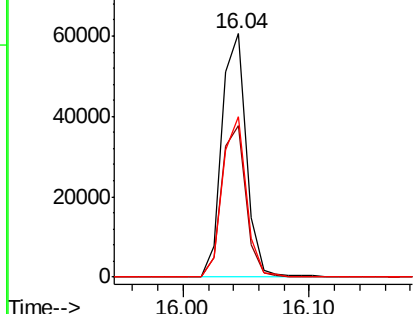
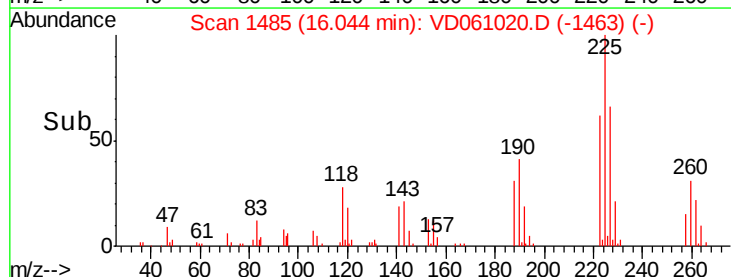


#94
 Hexachlorobutadiene
 Concen: 20.457 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061020.D
 Acq: 12 Mar 2019 13:24

Tgt Ion:225 Resp: 81293
 Ion Ratio Lower Upper
 225 100
 223 62.1 31.8 95.3
 227 65.9 31.4 94.0



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

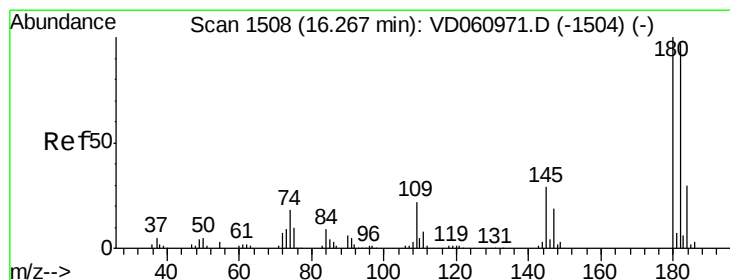
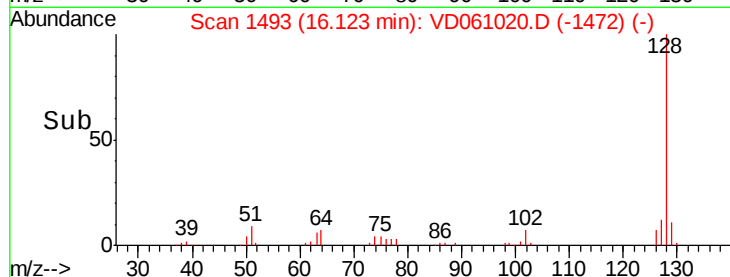
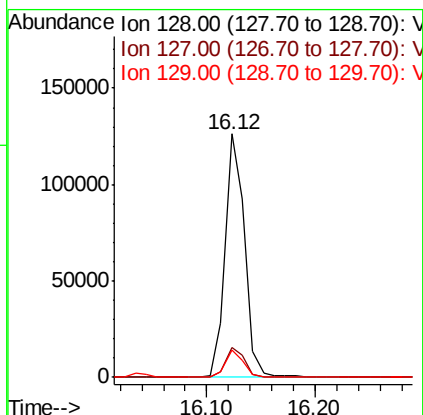
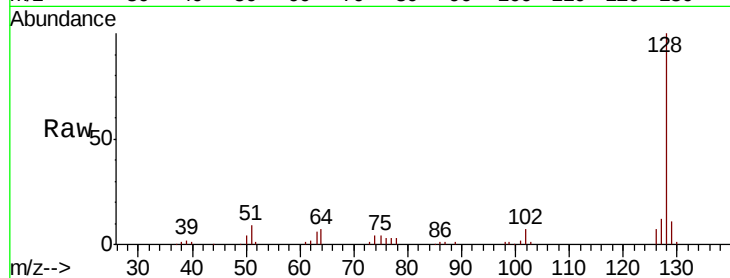




#95
Naphthalene
Concen: 19.719 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VD0312SBS01

Tgt Ion:128 Resp: 157431
Ion Ratio Lower Upper
128 100
127 12.1 9.8 14.8
129 11.5 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 21.345 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD061020.D
Acq: 12 Mar 2019 13:24

Tgt Ion:180 Resp: 55385
Ion Ratio Lower Upper
180 100
182 94.9 48.6 145.8
145 31.0 14.3 42.9

