

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031119\
 Data File : VD061000.D
 Acq On : 11 Mar 2019 13:08
 Operator : VA/AP
 Sample : VD0311SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

Quant Time: Mar 12 05:41:51 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	7.06	168	776123	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	1295625	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	1057612	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	496022	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	310476	48.06	ug/l	0.01
Spiked Amount			Recovery	=	96.12%	
35) Dibromofluoromethane	6.94	113	480910	50.02	ug/l	0.01
Spiked Amount			Recovery	=	100.04%	
50) Toluene-d8	10.41	98	1202274	49.79	ug/l	0.01
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	13.56	95	426623	45.54	ug/l	0.01
Spiked Amount			Recovery	=	91.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	150237	19.542	ug/l	100
3) Chloromethane	1.76	50	134011	20.925	ug/l	96
4) Vinyl Chloride	1.86	62	111345	18.815	ug/l	97
5) Bromomethane	2.16	94	19980	16.400	ug/l	97
6) Chloroethane	2.27	64	28493	16.086	ug/l	95
7) Trichlorofluoromethane	2.54	101	147743	17.379	ug/l	99
8) Diethyl Ether	2.88	74	57982	20.675	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.16	101	180171	18.957	ug/l	97
10) Methyl Iodide	3.33	142	207236	17.838	ug/l	98
11) Tert butyl alcohol	4.07	59	36831	89.553	ug/l #	95
12) 1,1-Dichloroethene	3.14	96	147863	18.979	ug/l	96
13) Acrolein	3.05	56	57406	96.468	ug/l	90
14) Allyl chloride	3.63	41	234097	18.780	ug/l	99
15) Acrylonitrile	4.20	53	139801	96.177	ug/l	96
16) Acetone	3.24	43	174251	94.323	ug/l	98
17) Carbon Disulfide	3.39	76	518124	19.715	ug/l	99
18) Methyl Acetate	3.66	43	65689	18.068	ug/l #	91
19) Methyl tert-butyl Ether	4.25	73	272693	19.973	ug/l	96
20) Methylene Chloride	3.83	84	221865	23.905	ug/l	96
21) trans-1,2-Dichloroethene	4.23	96	164348	19.490	ug/l	98
22) Diisopropyl ether	5.14	45	476465	18.413	ug/l	98
23) Vinyl Acetate	5.08	43	1314908	98.988	ug/l	100
24) 1,1-Dichloroethane	5.01	63	277040	19.541	ug/l	98
25) 2-Butanone	6.08	43	217326	103.672	ug/l	100
26) 2,2-Dichloropropane	6.04	77	225253	20.352	ug/l	96
27) cis-1,2-Dichloroethene	6.05	96	191423	21.396	ug/l	95
28) Bromochloromethane	6.46	49	107177	17.857	ug/l	88
29) Tetrahydrofuran	6.47	42	108274	95.121	ug/l	95
30) Chloroform	6.68	83	282868	19.251	ug/l	97
31) Cyclohexane	6.97	56	227727	19.920	ug/l	98
32) 1,1,1-Trichloroethane	6.88	97	238875	18.804	ug/l	98
36) 1,1-Dichloropropene	7.17	75	213933	19.156	ug/l	95
37) Ethyl Acetate	6.20	43	107594	20.530	ug/l	95
38) Carbon Tetrachloride	7.13	117	230724	18.755	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	229569	19.824	ug/l	99
40) Benzene	7.47	78	560866	20.098	ug/l	100
41) Methacrylonitrile	6.46	41	116602	19.343	ug/l #	94
42) 1,2-Dichloroethane	7.59	62	160427	19.810	ug/l	97
43) Isopropyl Acetate	9.25	43	143762	19.805	ug/l #	95
44) Trichloroethene	8.55	130	193440	20.092	ug/l	99
45) 1,2-Dichloropropane	8.95	63	133971	18.273	ug/l	98
46) Dibromomethane	9.08	93	91007	19.569	ug/l	98
47) Bromodichloromethane	9.39	83	207442	19.767	ug/l	96
48) Methyl methacrylate	9.13	41	77775	19.030	ug/l	97
49) 1,4-Dioxane	9.10	88	18194	440.255	ug/l	95
51) 4-Methyl-2-Pentanone	10.31	43	435243	97.876	ug/l	100
52) Toluene	10.52	92	346980	19.995	ug/l	99
53) t-1,3-Dichloropropene	10.93	75	193895	20.206	ug/l	94
54) cis-1,3-Dichloropropene	10.05	75	236796	20.537	ug/l	98
55) 1,1,2-Trichloroethane	11.20	97	121883	21.091	ug/l	97
56) Ethyl methacrylate	11.05	69	115247	19.052	ug/l	100
57) 1,3-Dichloropropane	11.42	76	178260	20.641	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	289622	90.455	ug/l	99
59) 2-Hexanone	11.54	43	339651	104.416	ug/l	99
60) Dibromochloromethane	11.69	129	176886	20.798	ug/l	97
61) 1,2-Dibromoethane	11.81	107	133887	19.916	ug/l	98
64) Tetrachloroethene	11.27	164	152387	21.345	ug/l	98
65) Chlorobenzene	12.40	112	434517	20.957	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	160040	21.655	ug/l	96
67) Ethyl Benzene	12.53	91	647371	20.973	ug/l	100
68) m/p-Xylenes	12.67	106	472283	38.983	ug/l	97
69) o-Xylene	13.05	106	243194	20.421	ug/l	93
70) Styrene	13.08	104	414363	21.308	ug/l	96
71) Bromoform	13.24	173	98046	20.565	ug/l	98
73) Isopropylbenzene	13.41	105	667661	18.677	ug/l	99
74) N-amyl acetate	13.27	43	172929	17.180	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	128152	18.374	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	134913	18.906	ug/l	98
77) Bromobenzene	13.67	156	178748	19.588	ug/l	90
78) n-propylbenzene	13.78	91	814603	19.465	ug/l	98
79) 2-Chlorotoluene	13.84	91	415262	18.024	ug/l	98
80) 1,3,5-Trimethylbenzene	14.24	105	547871	20.188	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.48	75	40789	19.387	ug/l	96
82) 4-Chlorotoluene	13.95	91	511056	18.763	ug/l	95
83) tert-Butylbenzene	14.19	119	615615	20.728	ug/l	96
84) 1,2,4-Trimethylbenzene	14.24	105	547871	20.188	ug/l	97
85) sec-Butylbenzene	14.37	105	722097	19.916	ug/l	97
86) p-Isopropyltoluene	14.50	119	619052	20.888	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	320103	19.645	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	335068	20.926	ug/l	96
89) n-Butylbenzene	14.80	91	524304	18.422	ug/l	97
90) Hexachloroethane	15.01	117	156305	18.678	ug/l	87
91) 1,2-Dichlorobenzene	14.81	146	274540	20.211	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.39	75	16405	19.519	ug/l	94

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

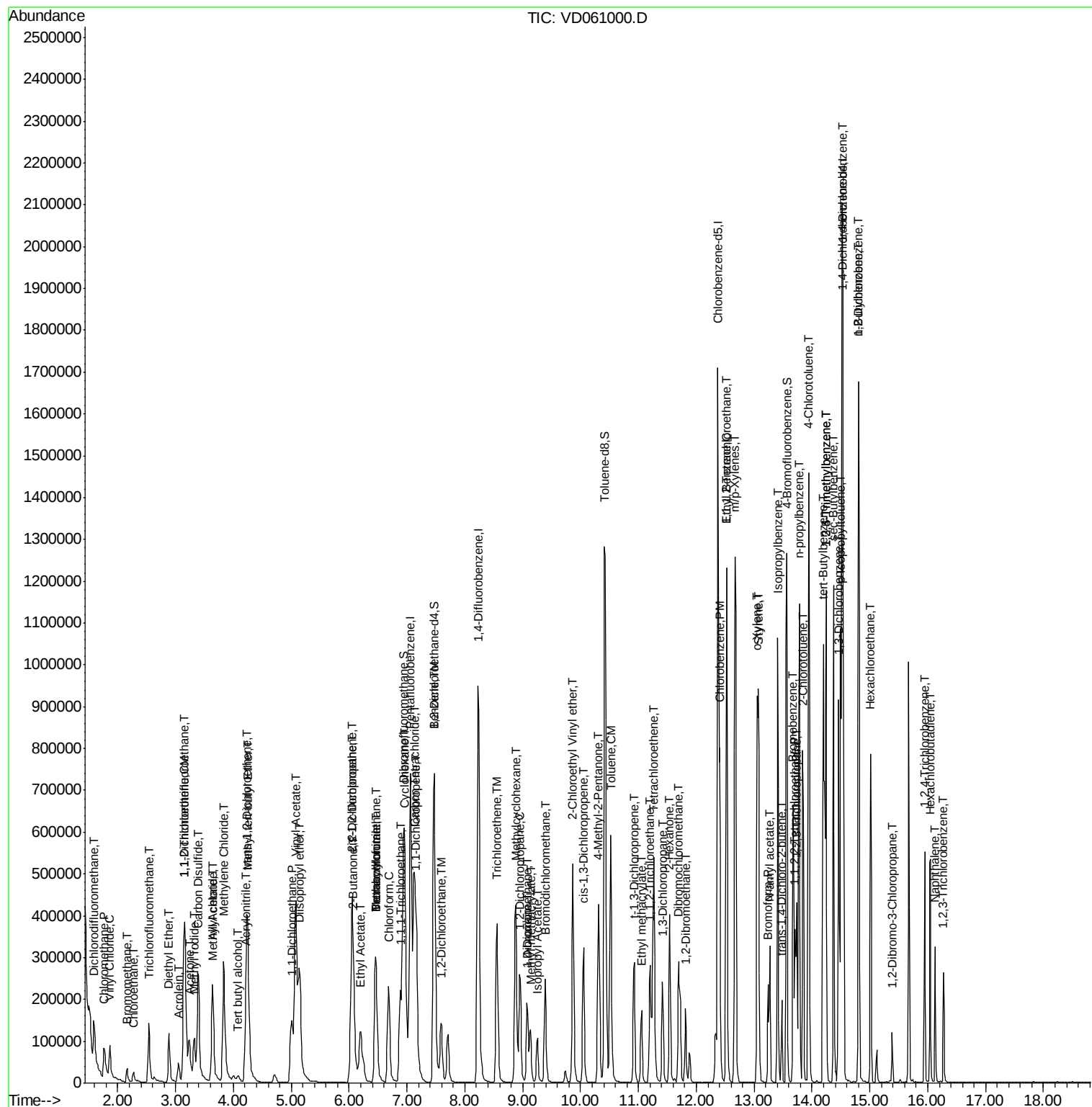
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	133075	21.118	ug/l	98
94) Hexachlorobutadiene	16.05	225	99822	20.943	ug/l	98
95) Naphthalene	16.12	128	208117	21.733	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	67183	21.586	ug/l	92

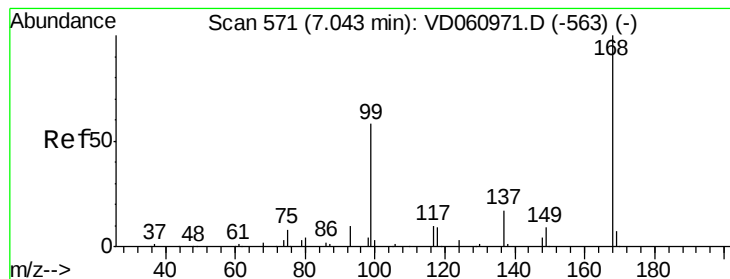
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031119\
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Acq On : 11 Mar 2019 13:08
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Quant Time: Mar 12 05:41:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

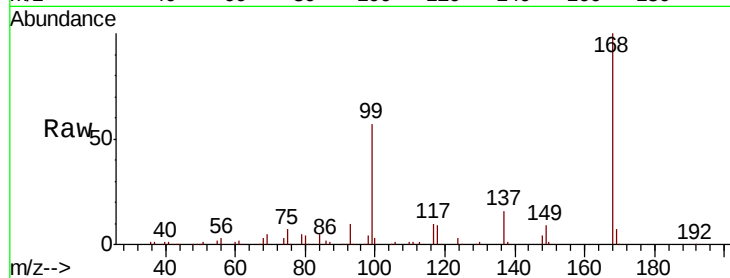
VD0311SBS01

Tot Ion:168 Resp: 776123

Ion Ratio Lower Upper

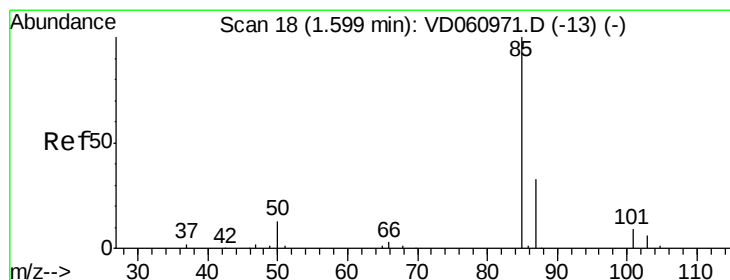
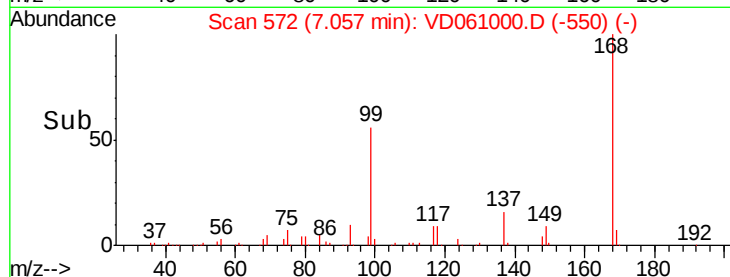
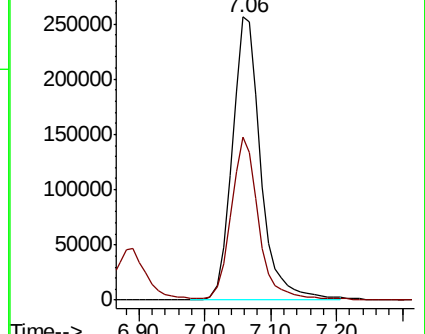
168 100

99 57.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.542 ug/l

RT: 1.58 min Scan# 16

Delta R.T. -0.02 min

Lab File: VD061000.D

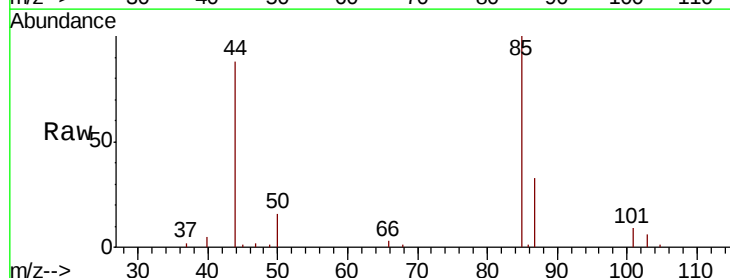
Acq: 11 Mar 2019 13:08

Tgt Ion: 85 Resp: 150237

Ion Ratio Lower Upper

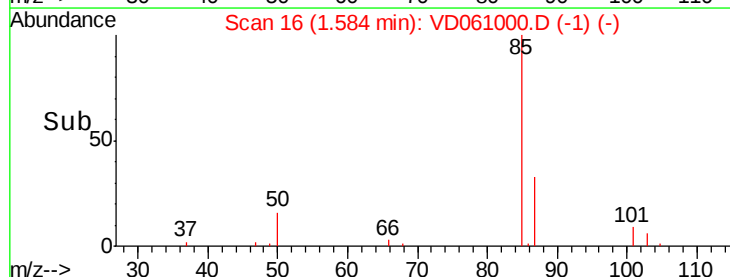
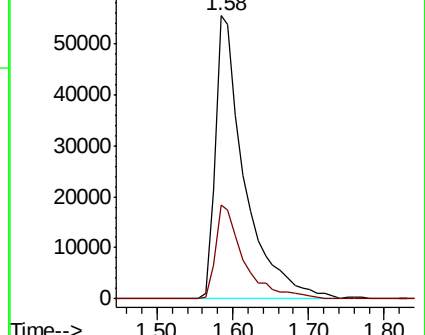
85 100

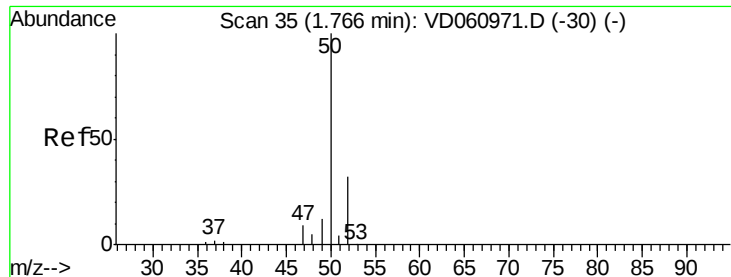
87 33.1 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.925 ug/l

RT: 1.76 min Scan# 34

Delta R.T. -0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

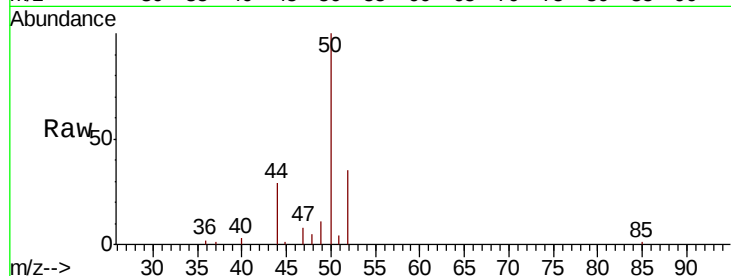
VD0311SBS01

Tot Ion: 50 Resp: 134011

Ion Ratio Lower Upper

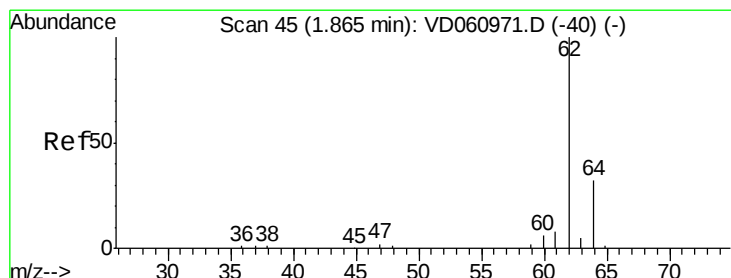
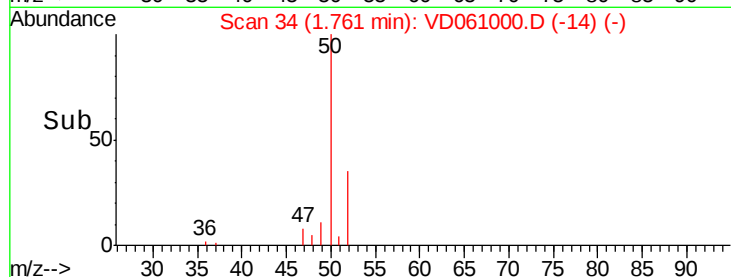
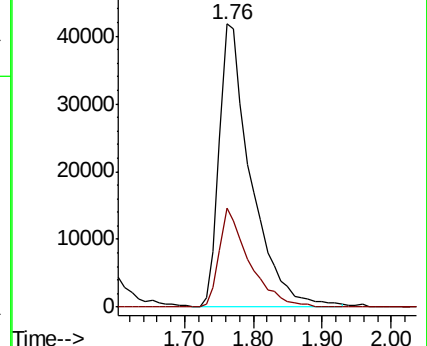
50 100

52 34.8 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.815 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061000.D

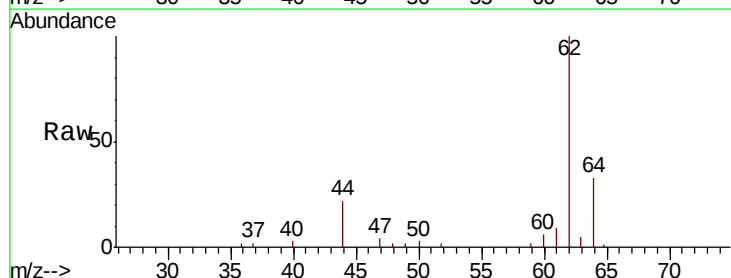
Acq: 11 Mar 2019 13:08

Tgt Ion: 62 Resp: 111345

Ion Ratio Lower Upper

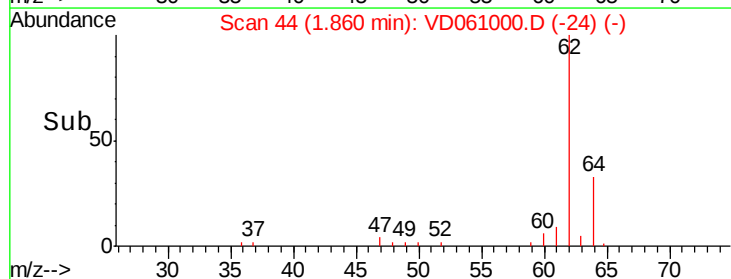
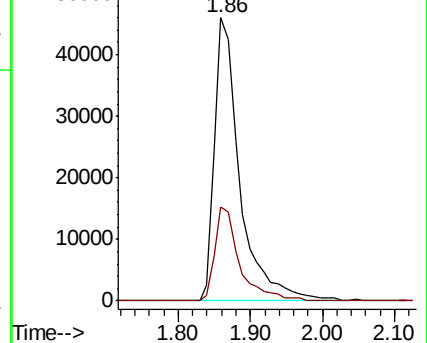
62 100

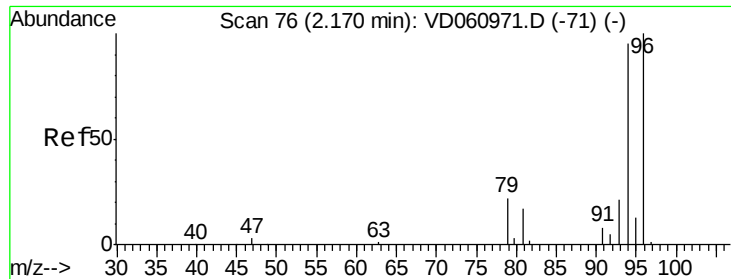
64 33.4 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.400 ug/l

RT: 2.16 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

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ClientSampleId :

VD0311SBS01

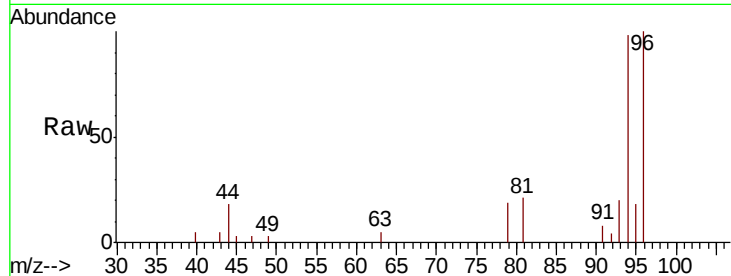
Tot Ion: 94 Resp: 19980

Ion Ratio Lower Upper

94 100

96 101.7 84.0 126.0

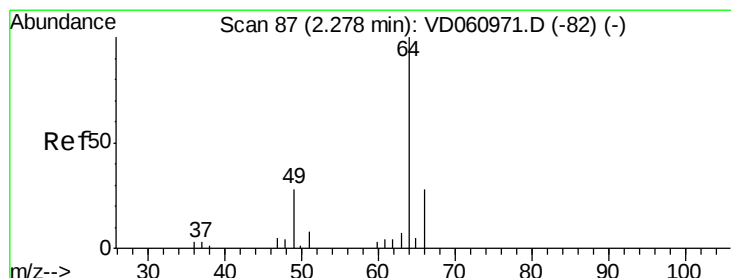
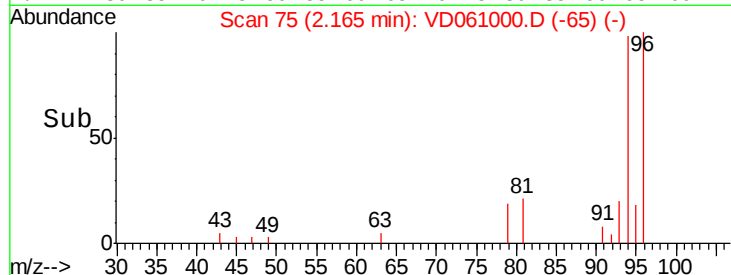
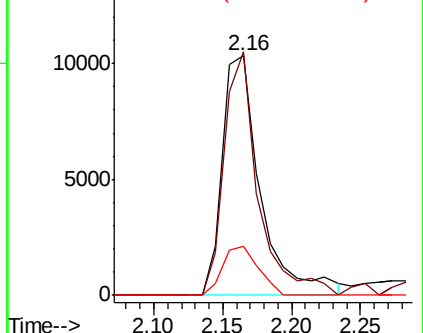
93 20.4 17.3 25.9



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: 16.086 ug/l

RT: 2.27 min Scan# 86

Delta R.T. -0.00 min

Lab File: VD061000.D

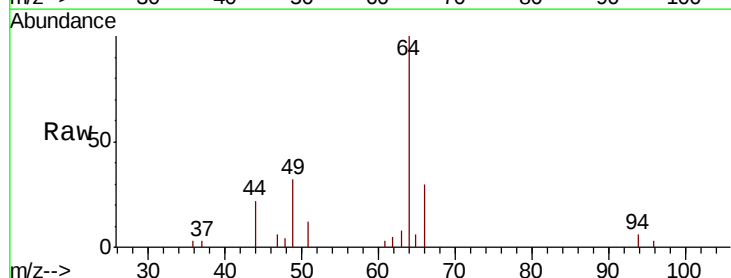
Acq: 11 Mar 2019 13:08

Tgt Ion: 64 Resp: 28493

Ion Ratio Lower Upper

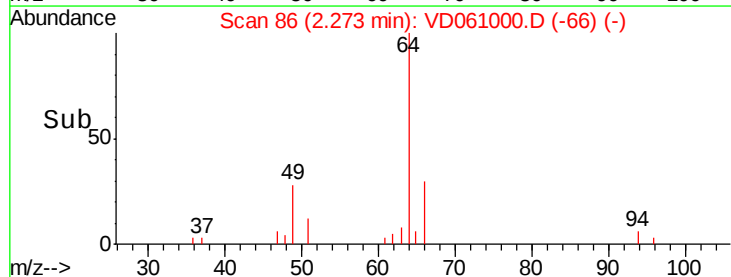
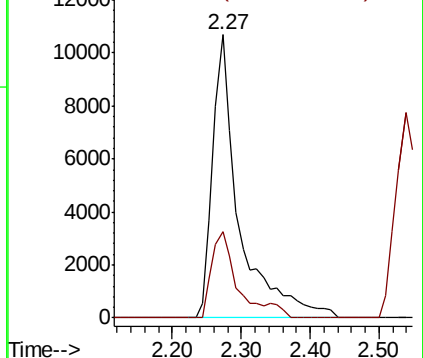
64 100

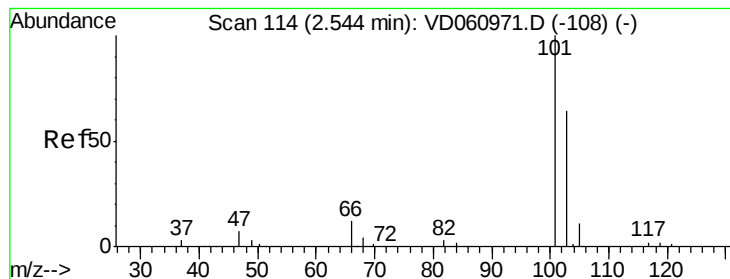
66 30.3 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



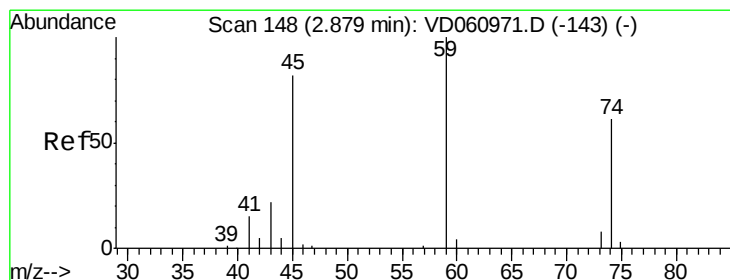
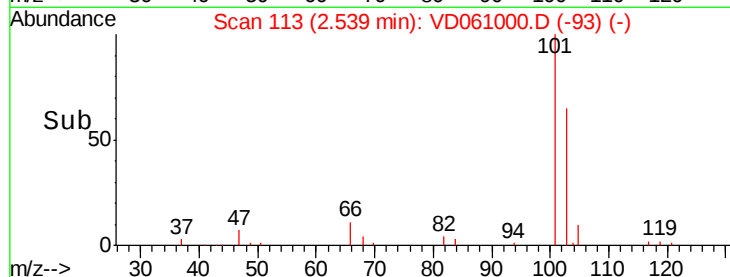
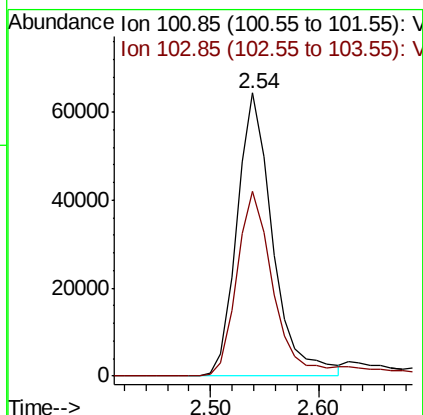
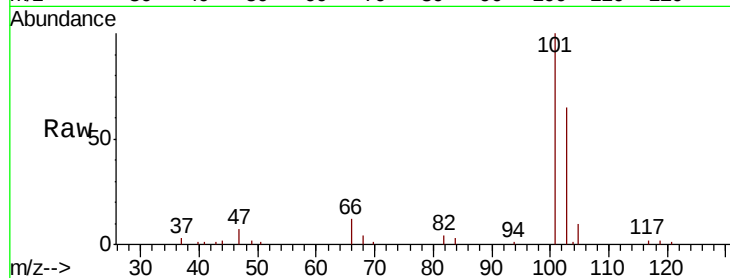


#7

Trichlorofluoromethane
Concen: 17.379 ug/l
RT: 2.54 min Scan# 113
Delta R.T. -0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Instrument :
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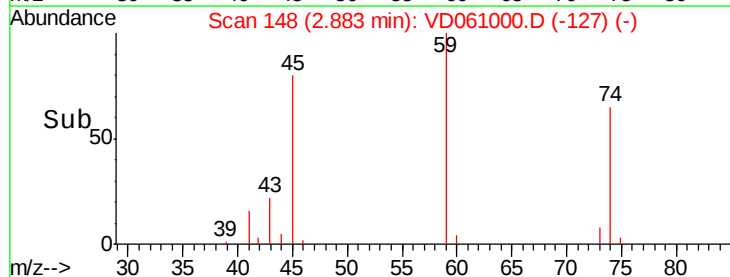
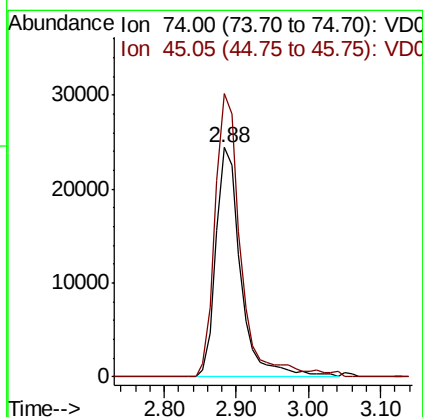
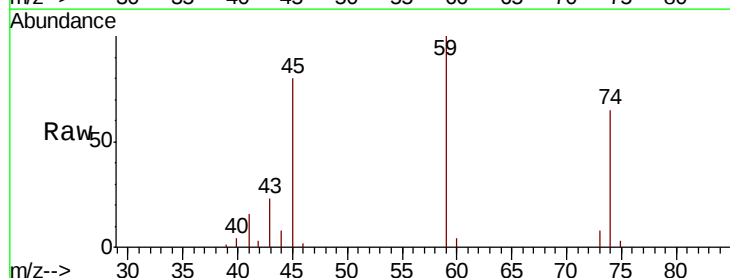
Tot Ion:101 Resp: 147743
Ion Ratio Lower Upper
101 100
103 65.2 51.2 76.8

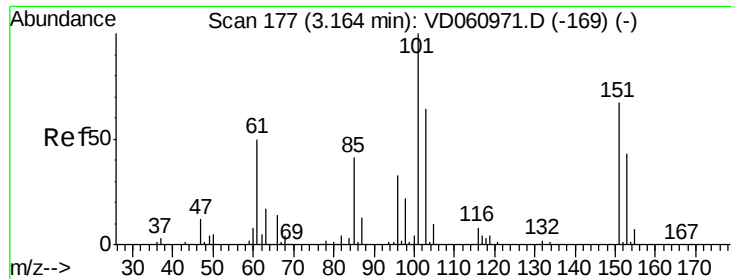


#8

Diethyl Ether
Concen: 20.675 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 74 Resp: 57982
Ion Ratio Lower Upper
74 100
45 123.4 67.0 201.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.957 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

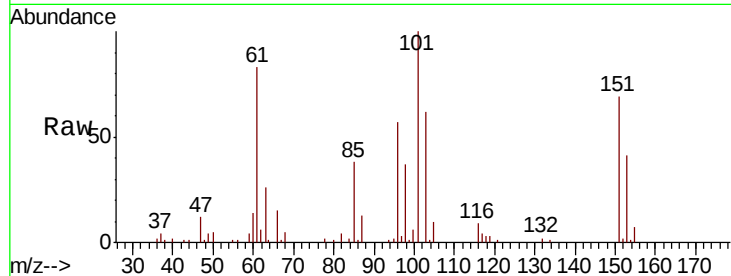
Tot Ion:101 Resp: 180171

Ion Ratio Lower Upper

101 100

85 38.5 32.5 48.7

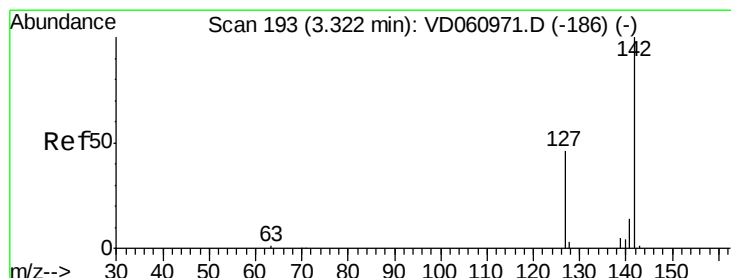
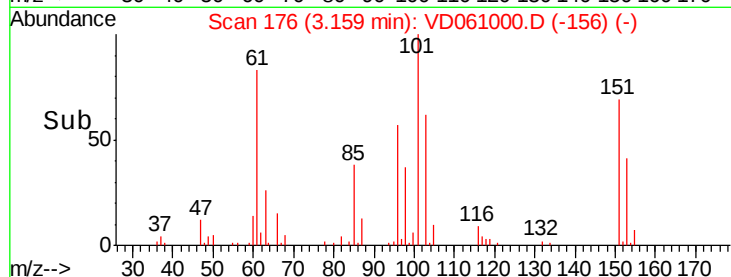
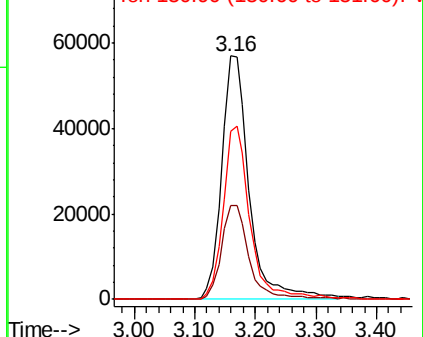
151 69.0 53.3 79.9



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: 17.838 ug/l

RT: 3.33 min Scan# 193

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

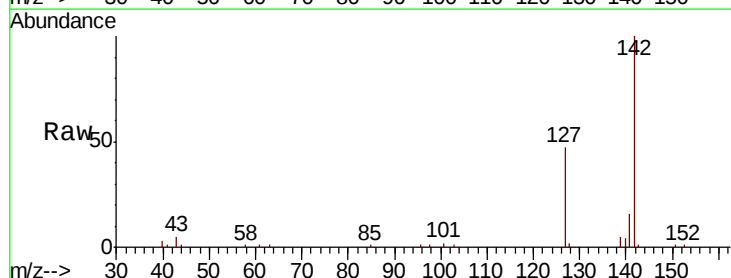
Tgt Ion:142 Resp: 207236

Ion Ratio Lower Upper

142 100

127 47.2 36.8 55.2

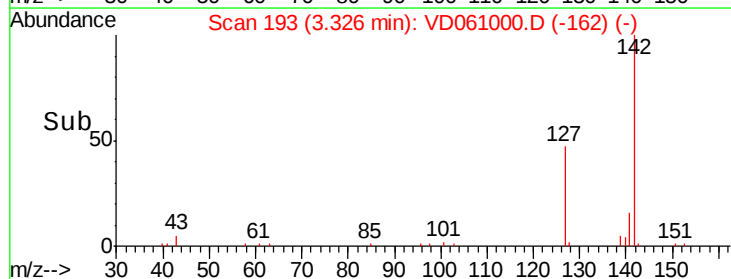
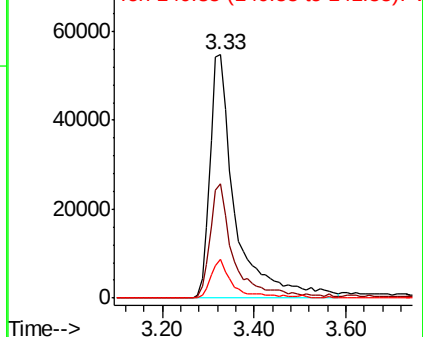
141 15.7 11.2 16.8

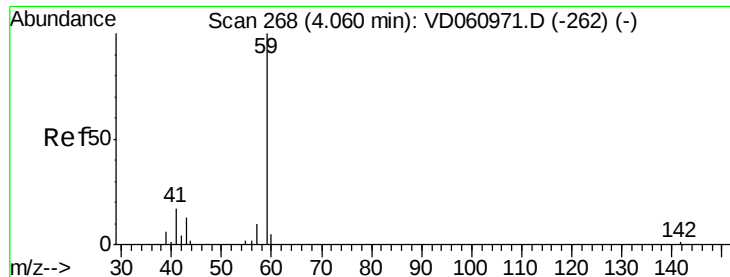


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



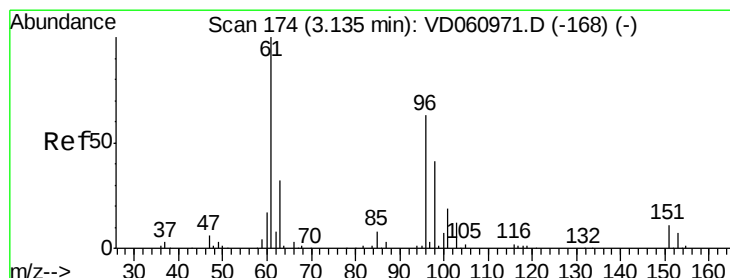
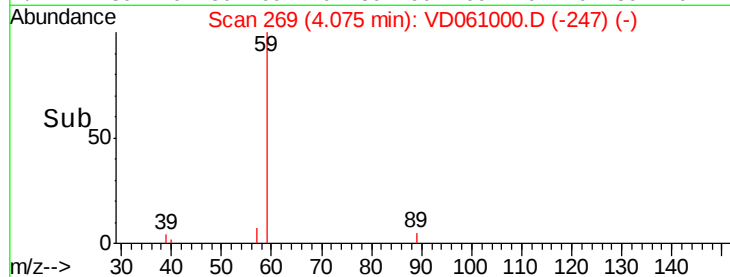
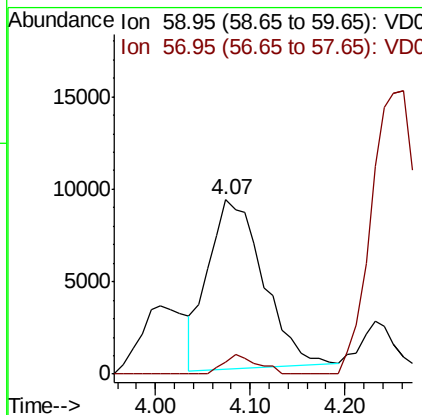
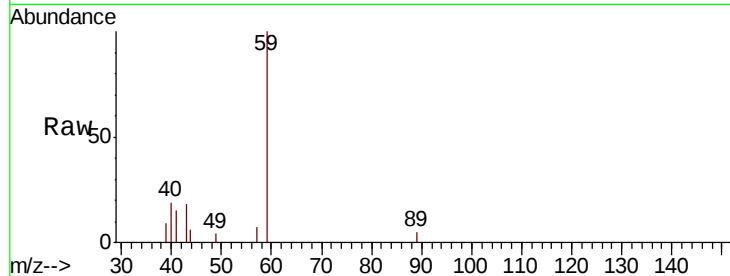


#11

Tert butyl alcohol
 Concen: 89.553 ug/l
 RT: 4.07 min Scan# 269
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

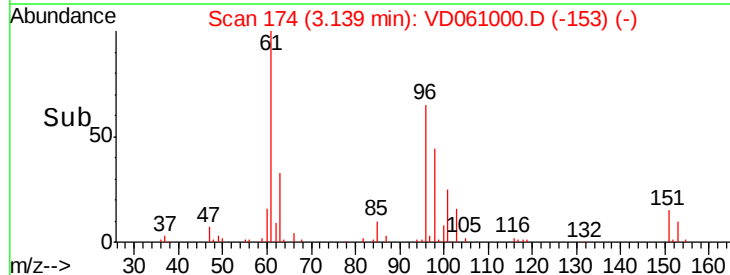
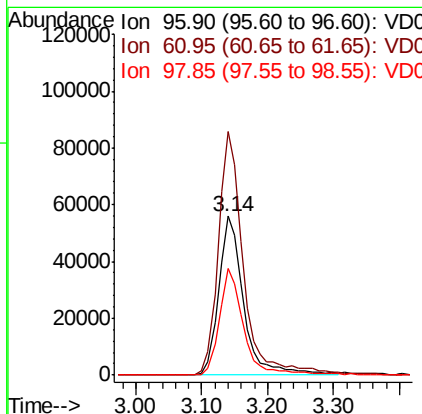
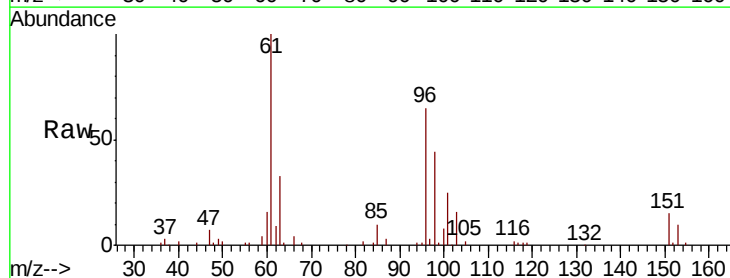
Tot Ion: 59 Resp: 36831
 Ion Ratio Lower Upper
 59 100
 57 7.1 7.1 10.7#

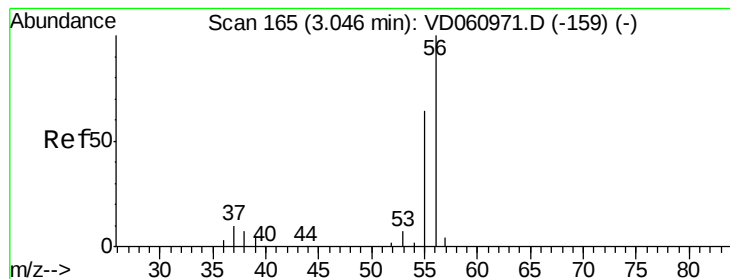


#12

1,1-Dichloroethene
 Concen: 18.979 ug/l
 RT: 3.14 min Scan# 174
 Delta R.T. 0.00 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion: 96 Resp: 147863
 Ion Ratio Lower Upper
 96 100
 61 153.3 127.1 190.7
 98 67.5 51.5 77.3





#13

Acrolein

Concen: 96.468 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

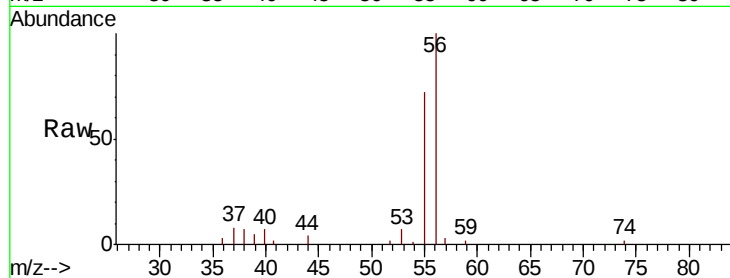
VD0311SBS01

Tot Ion: 56 Resp: 57406

Ion Ratio Lower Upper

56 100

55 71.7 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.05

25000

20000

15000

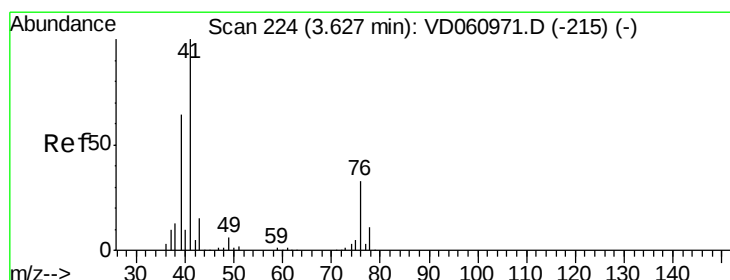
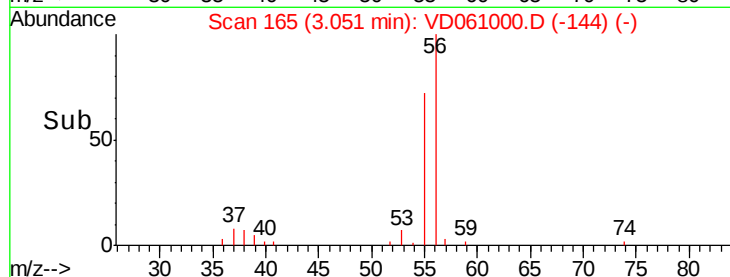
10000

5000

0

Time-->

2.90 3.00 3.10 3.20



#14

Allyl chloride

Concen: 18.780 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

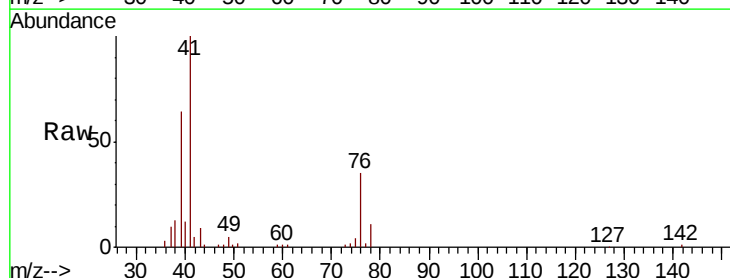
Tgt Ion: 41 Resp: 234097

Ion Ratio Lower Upper

41 100

39 63.8 51.1 76.7

76 35.4 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

3.63

100000

80000

60000

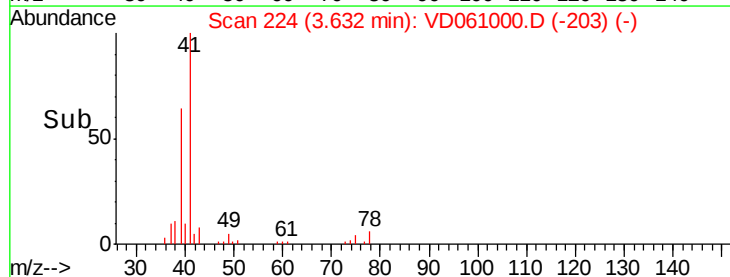
40000

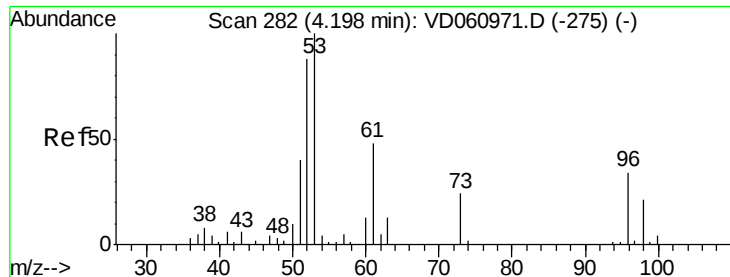
20000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 96.177 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

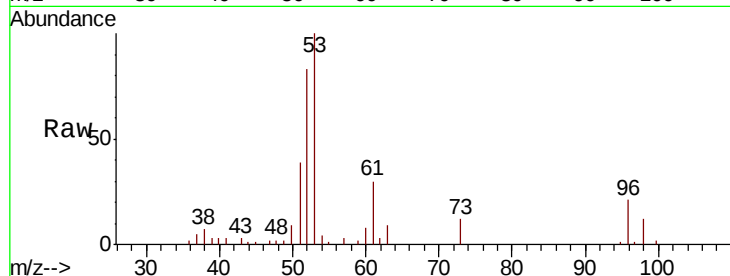
Tot Ion: 53 Resp: 139801

Ion Ratio Lower Upper

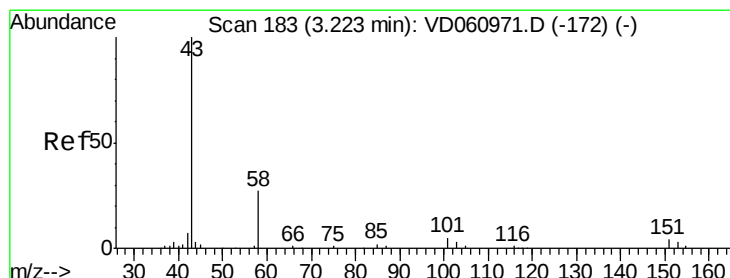
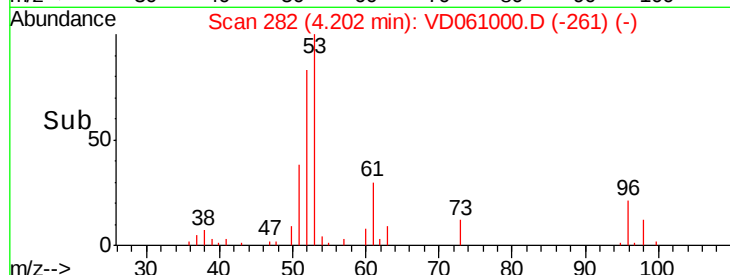
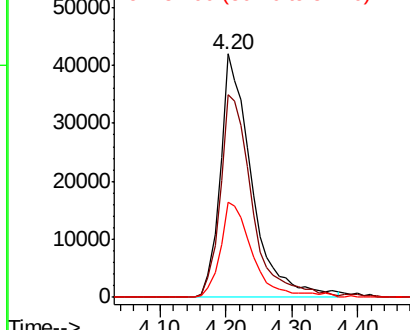
53 100

52 83.2 70.2 105.4

51 38.8 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: 94.323 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD061000.D

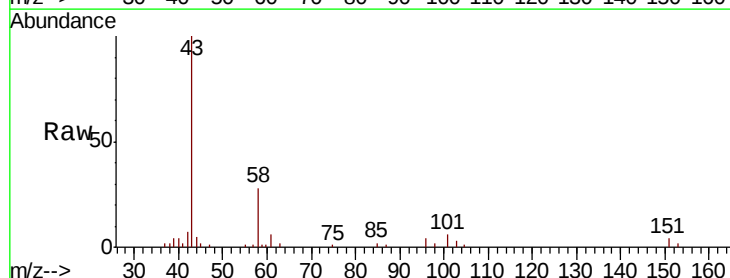
Acq: 11 Mar 2019 13:08

Tgt Ion: 43 Resp: 174251

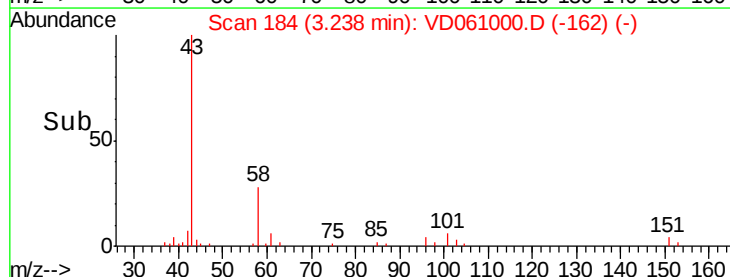
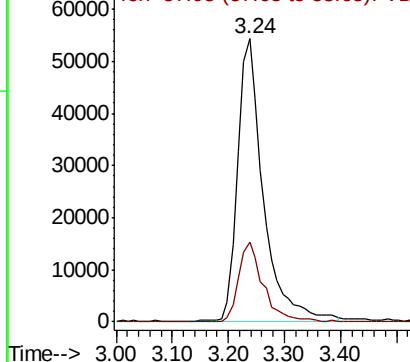
Ion Ratio Lower Upper

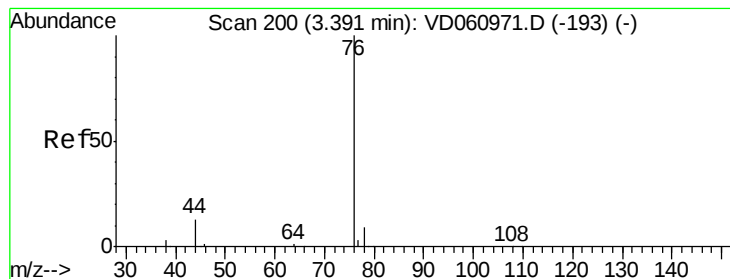
43 100

58 28.1 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: 19.715 ug/l

RT: 3.39 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

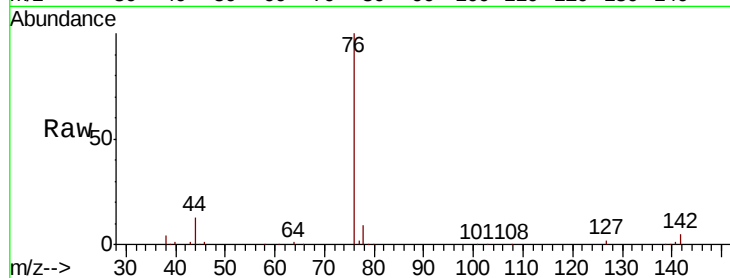
VD0311SBS01

Tot Ion: 76 Resp: 518124

Ion Ratio Lower Upper

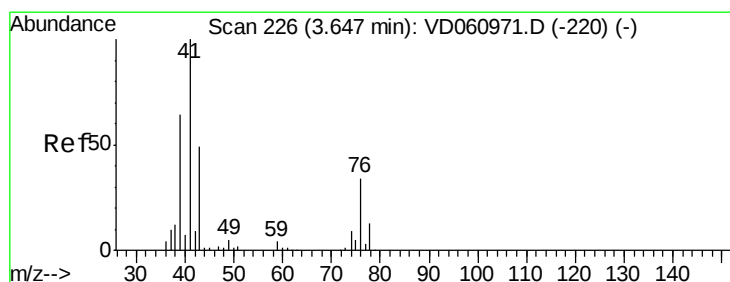
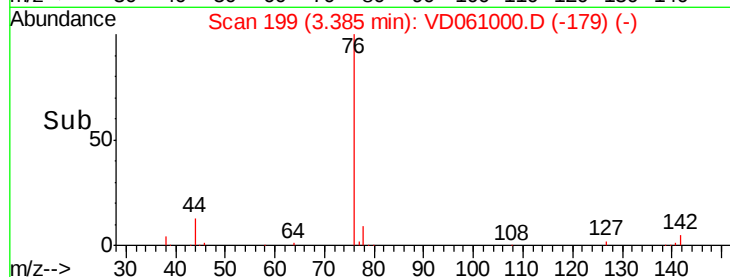
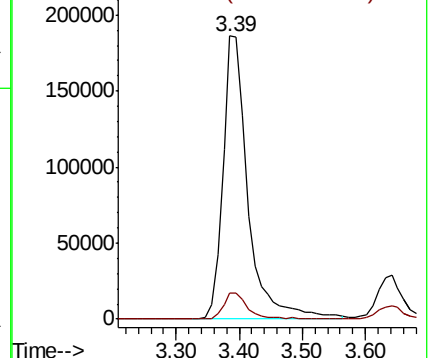
76 100

78 9.1 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: 18.068 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD061000.D

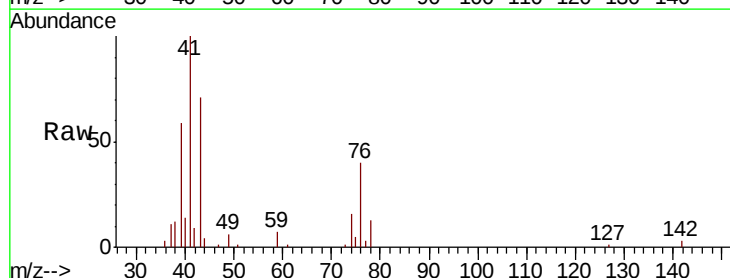
Acq: 11 Mar 2019 13:08

Tgt Ion: 43 Resp: 65689

Ion Ratio Lower Upper

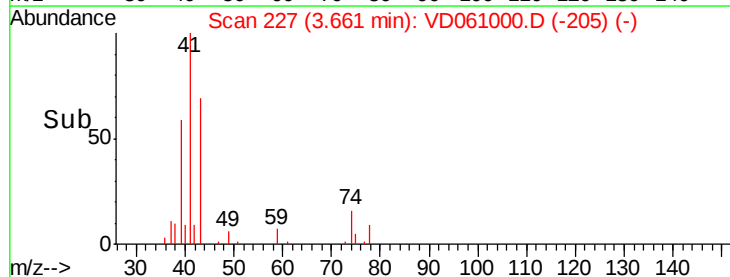
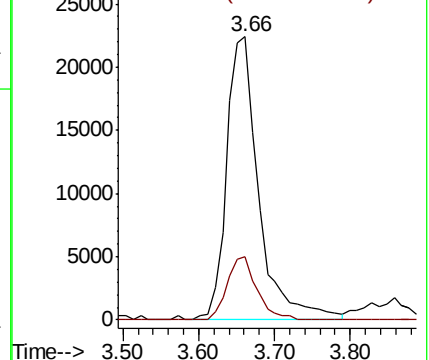
43 100

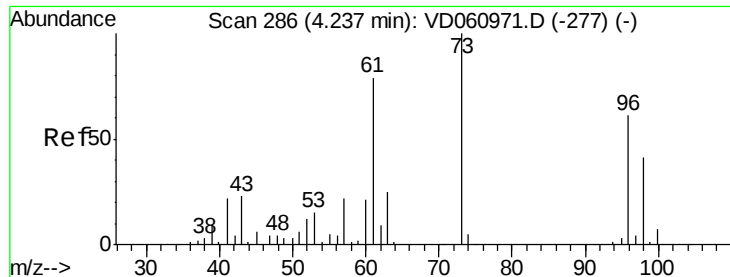
74 22.2 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

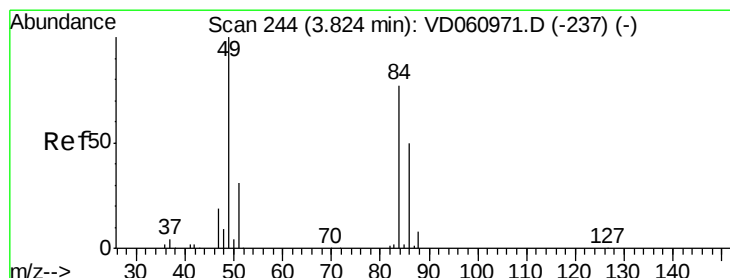
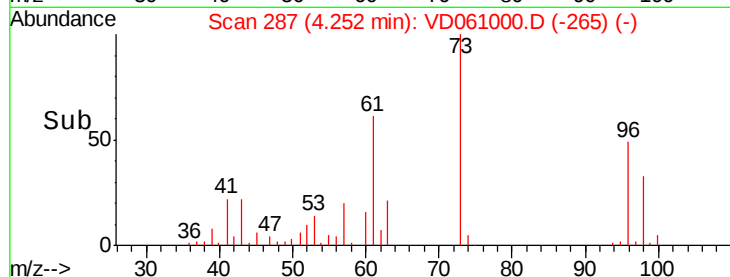
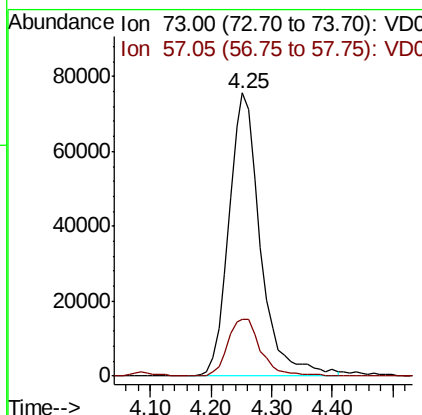
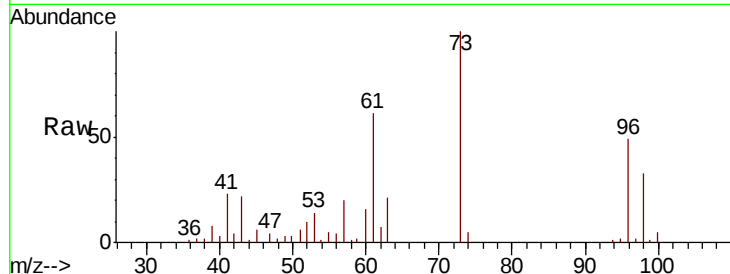




#19
Methvl tert-butvl Ether
Concen: 19.973 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

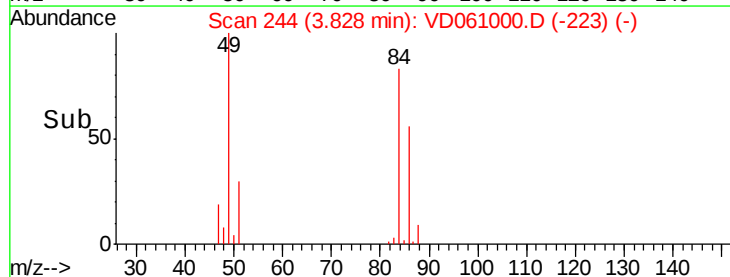
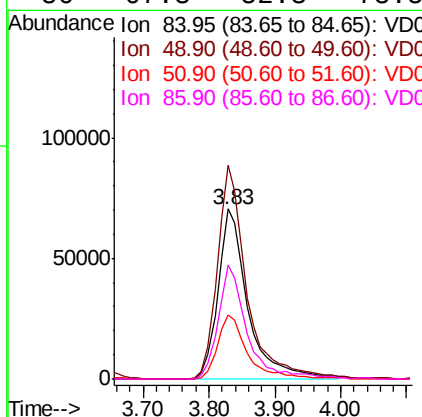
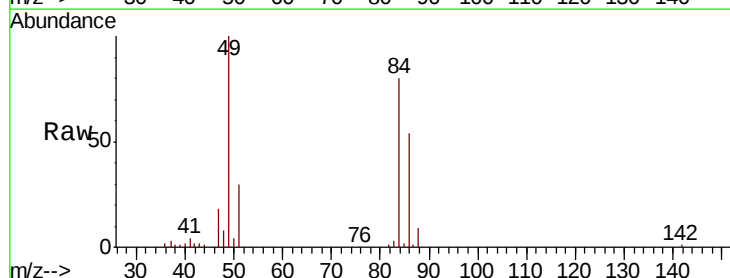
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

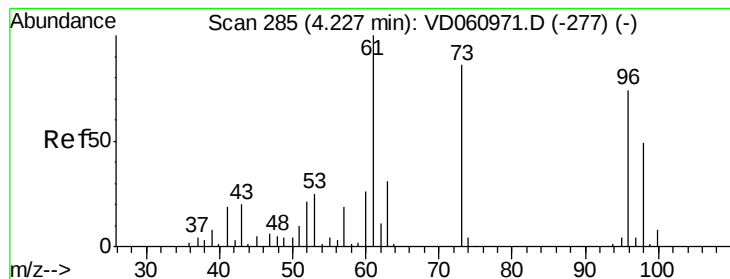
Tot Ion: 73 Resp: 272693
Ion Ratio Lower Upper
73 100
57 20.1 17.7 26.5



#20
Methylene Chloride
Concen: 23.905 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 84 Resp: 221865
Ion Ratio Lower Upper
84 100
49 125.5 104.2 156.2
51 37.9 32.3 48.5
86 67.3 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 19.490 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

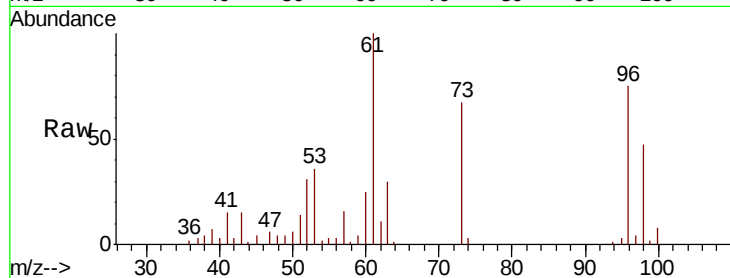
Tot Ion: 96 Resp: 164348

Ion Ratio Lower Upper

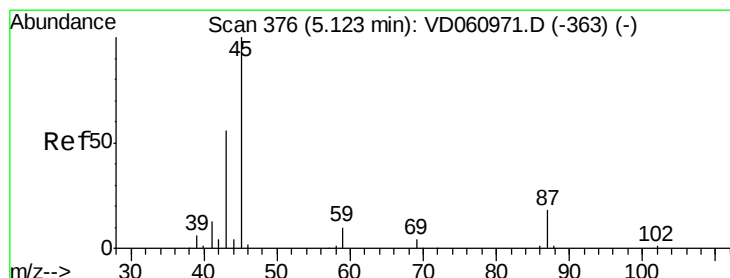
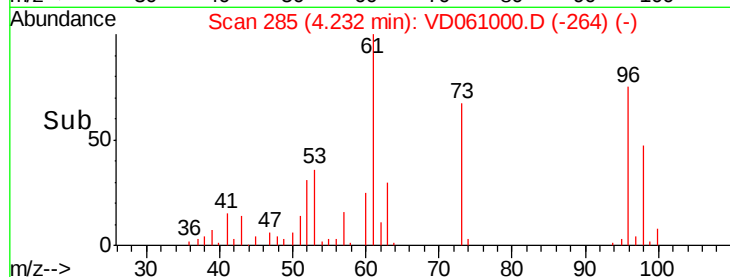
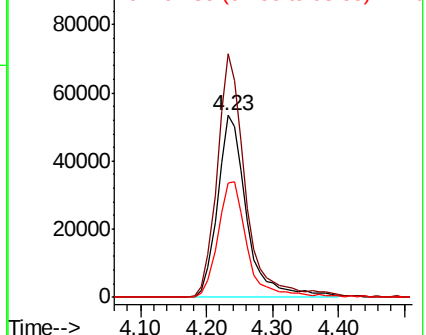
96 100

61 134.0 108.4 162.6

98 62.7 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: 18.413 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Tgt Ion: 45 Resp: 476465

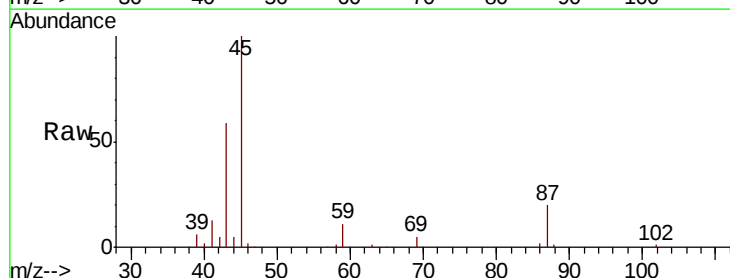
Ion Ratio Lower Upper

45 100

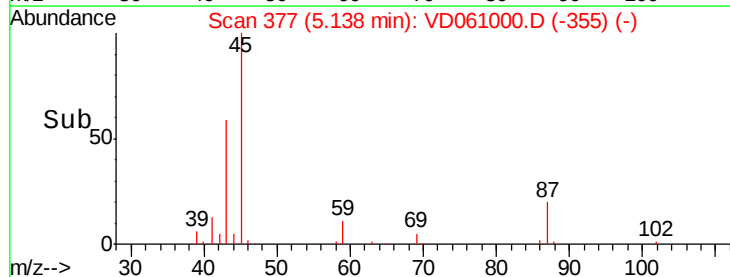
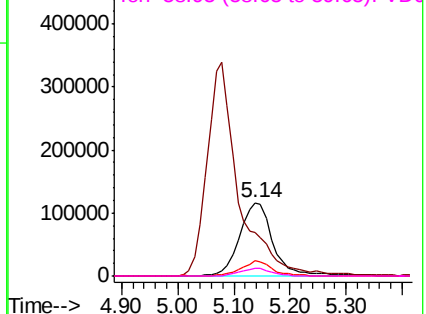
43 58.6 45.8 68.8

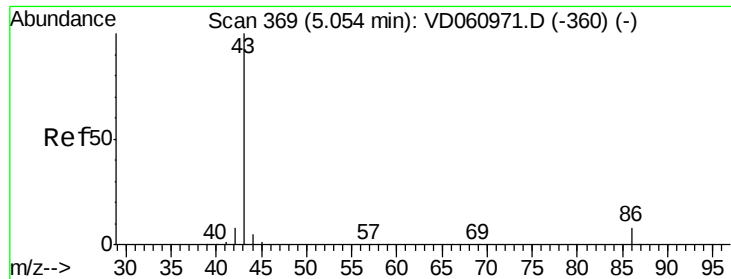
87 20.4 14.9 22.3

59 10.6 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: 98.988 ug/l

RT: 5.08 min Scan# 371

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

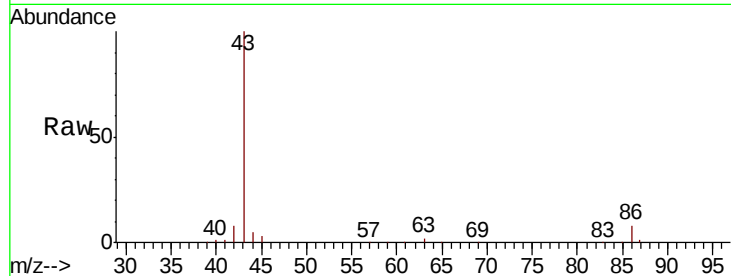
VD0311SBS01

Tot Ion: 43 Resp: 1314908

Ion Ratio Lower Upper

43 100

86 7.7 6.2 9.2



Abundance Ion 42.95 (42.65 to 43.65): VD061000.D (-371) (-)

Ion 86.00 (85.70 to 86.70): VD061000.D (-371) (-)

5.08

400000

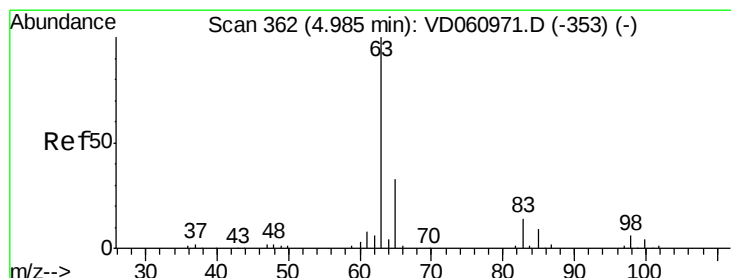
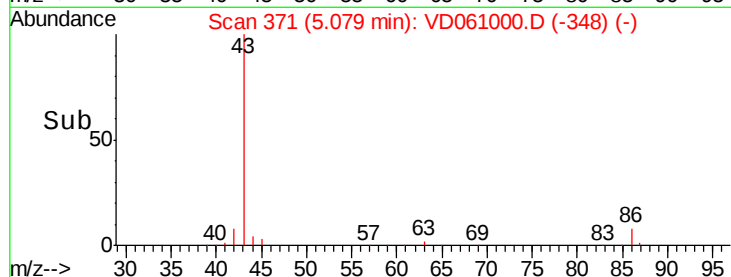
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.541 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

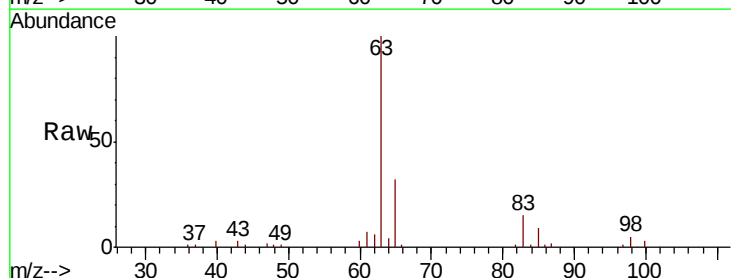
Tgt Ion: 63 Resp: 277040

Ion Ratio Lower Upper

63 100

98 5.4 3.0 9.2

100 3.4 2.0 5.8



Abundance Ion 62.95 (62.65 to 63.65): VD061000.D (-364) (-)

Ion 97.95 (97.65 to 98.65): VD061000.D (-364) (-)

Ion 99.95 (99.65 to 100.65): VD061000.D (-364) (-)

5.01

100000

80000

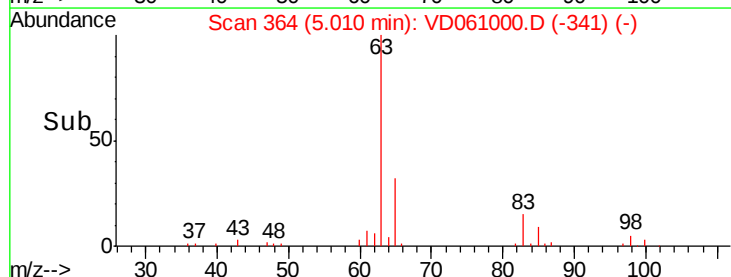
60000

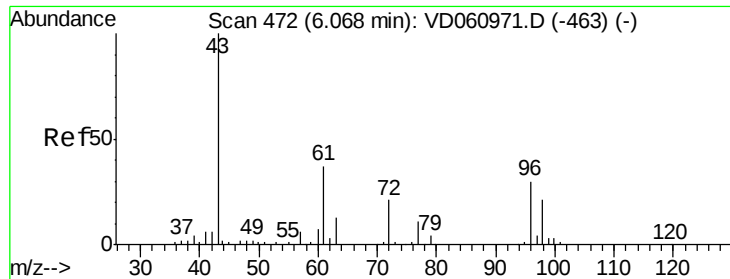
40000

20000

0

Time-->





#25

2-Butanone

Concen: 103.672 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

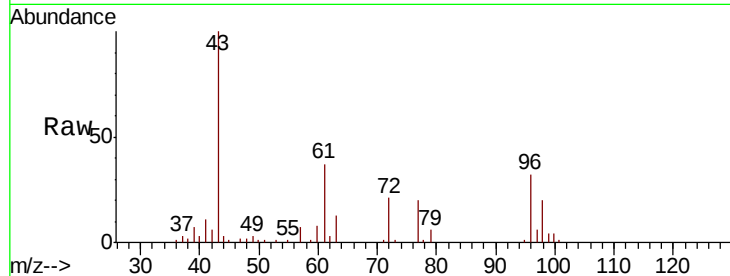
VD0311SBS01

Tot Ion: 43 Resp: 217326

Ion Ratio Lower Upper

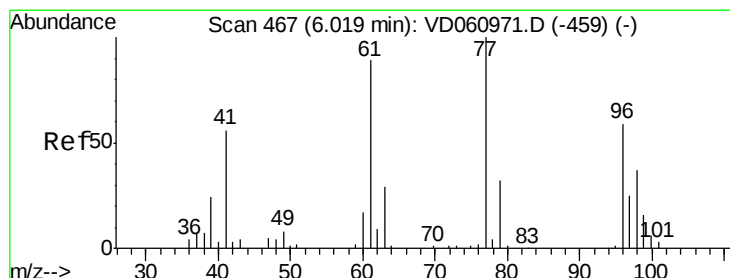
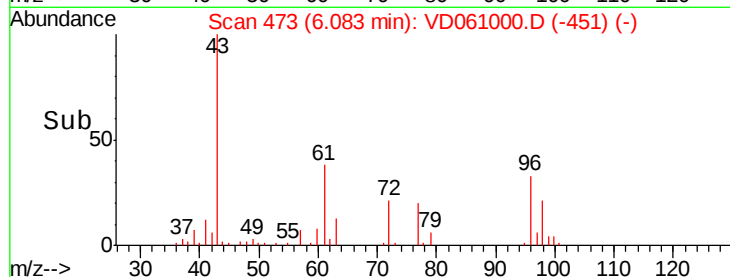
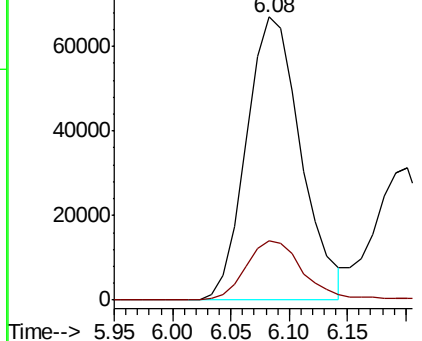
43 100

72 20.9 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: 20.352 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.02 min

Lab File: VD061000.D

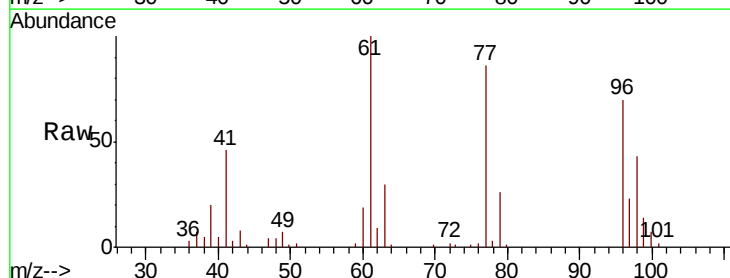
Acq: 11 Mar 2019 13:08

Tgt Ion: 77 Resp: 225253

Ion Ratio Lower Upper

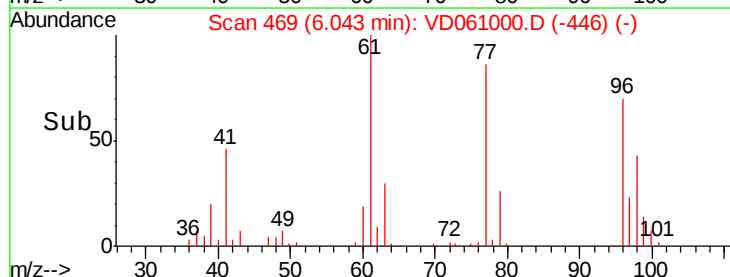
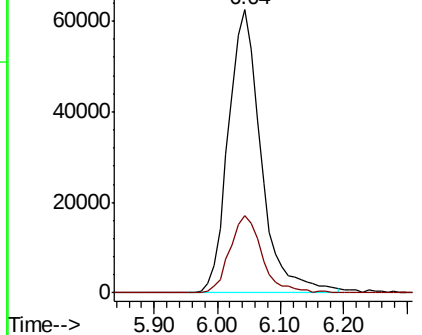
77 100

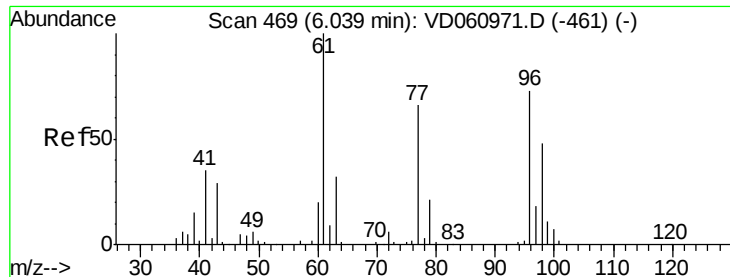
97 27.1 12.6 37.6



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: 21.396 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

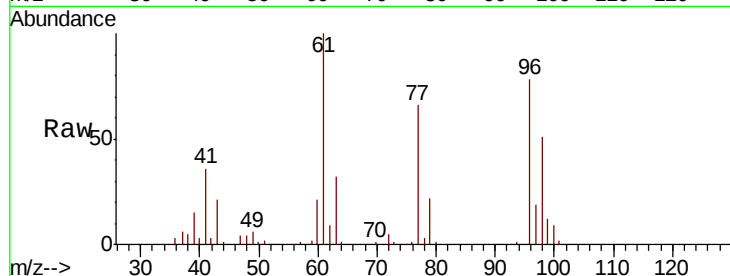
Tot Ion: 96 Resp: 191423

Ion Ratio Lower Upper

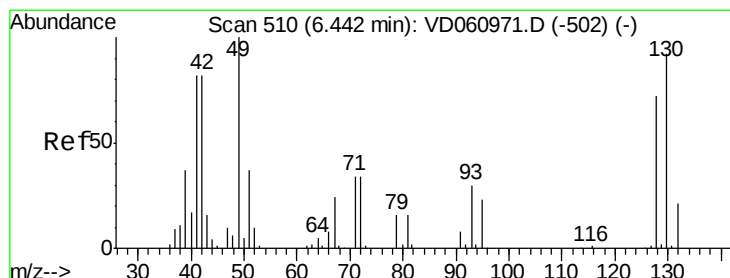
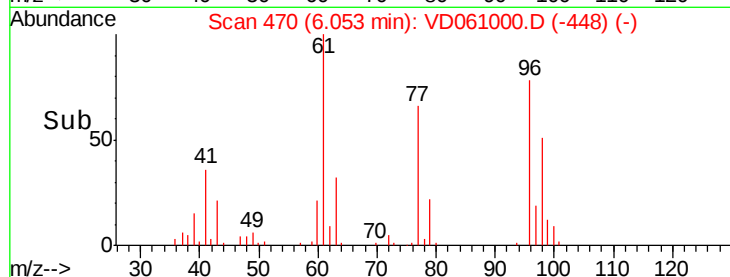
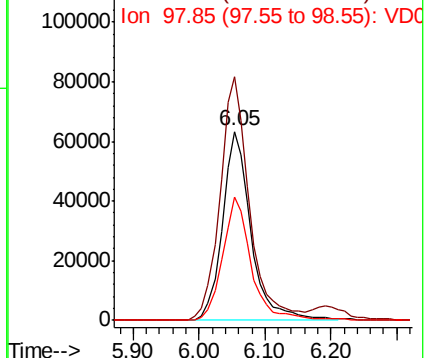
96 100

61 128.8 0.0 273.6

98 65.2 0.0 132.6



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



#28

Bromochloromethane

Concen: 17.857 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

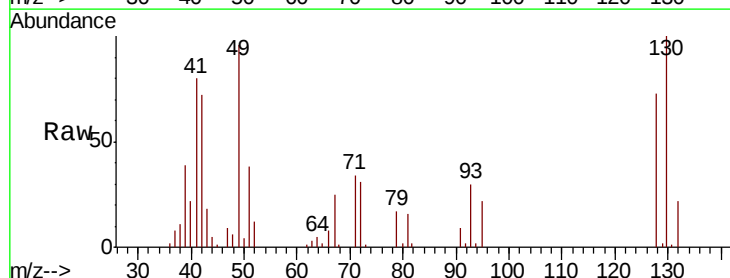
Tgt Ion: 49 Resp: 107177

Ion Ratio Lower Upper

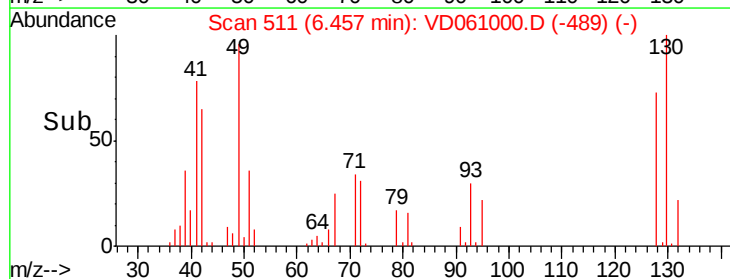
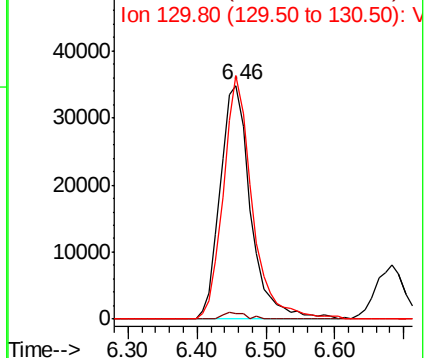
49 100

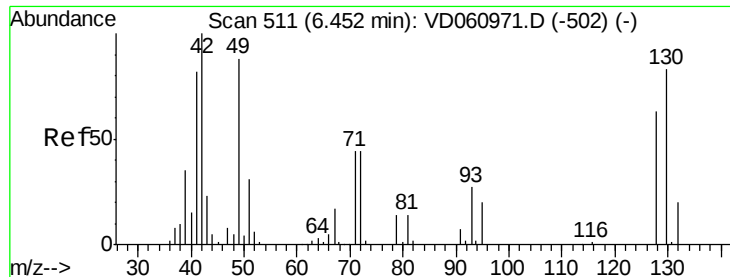
129 2.6 0.0 4.0

130 104.2 73.8 110.8



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





#29

Tetrahydrofuran

Concen: 95.121 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

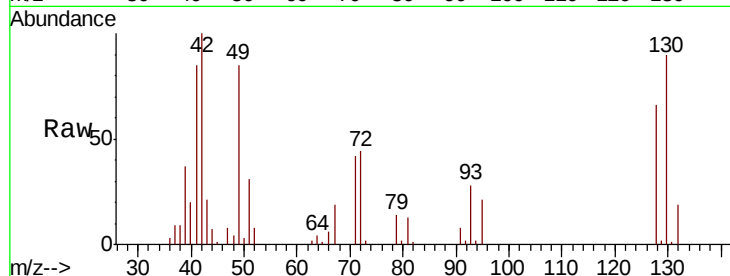
Tot Ion: 42 Resp: 108274

Ion Ratio Lower Upper

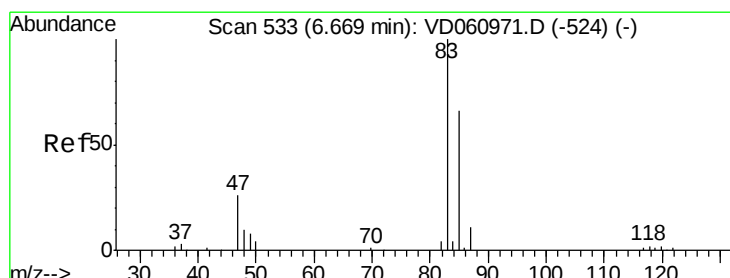
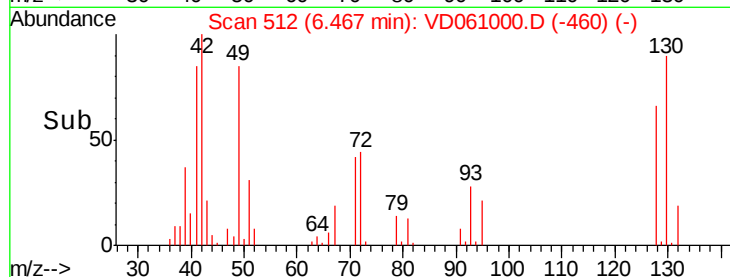
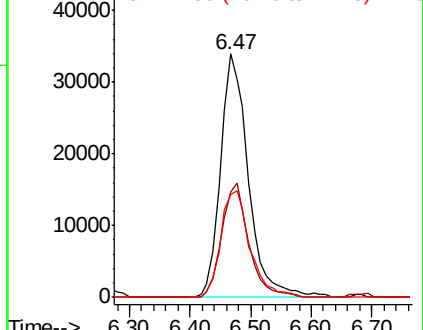
42 100

72 45.3 34.5 51.7

71 45.9 33.8 50.6



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



#30

Chloroform

Concen: 19.251 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.01 min

Lab File: VD061000.D

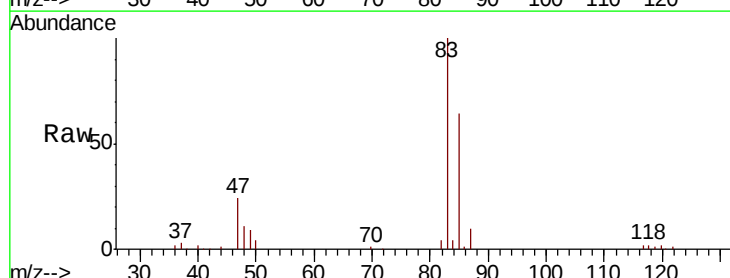
Acq: 11 Mar 2019 13:08

Tgt Ion: 83 Resp: 282868

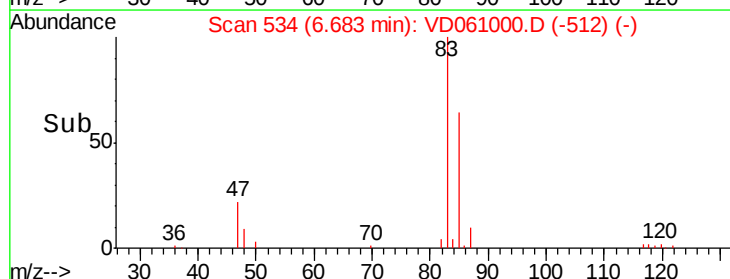
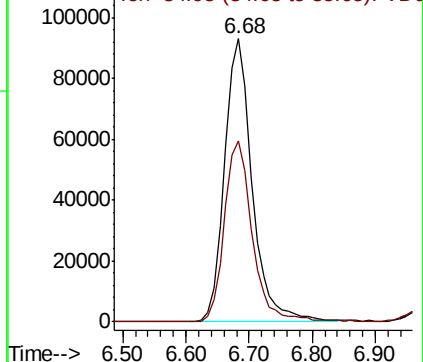
Ion Ratio Lower Upper

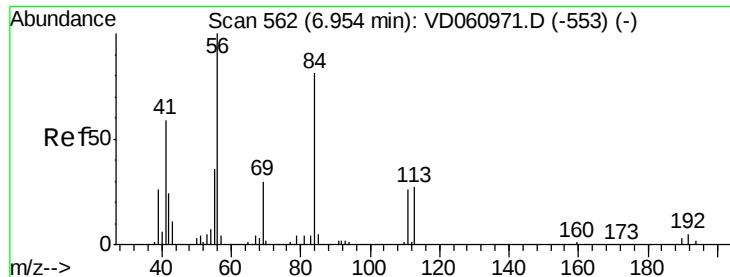
83 100

85 64.0 53.0 79.4



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

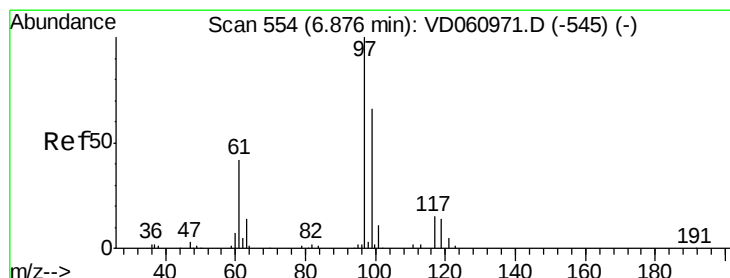
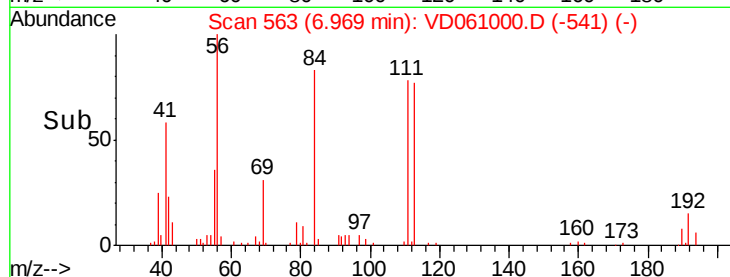
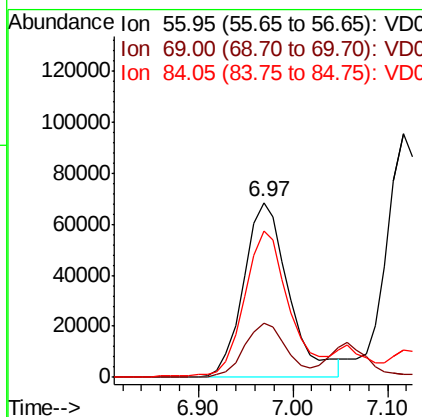
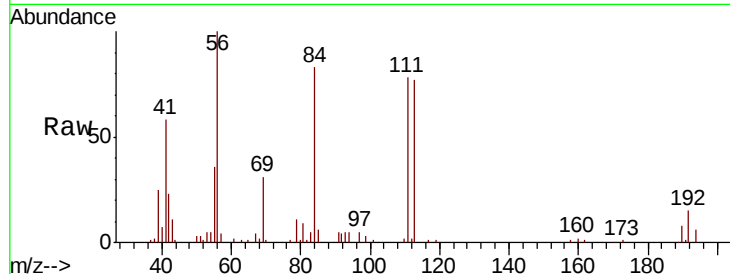




#31
Cyclohexane
Concen: 19.920 ug/l
RT: 6.97 min Scan# 563
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

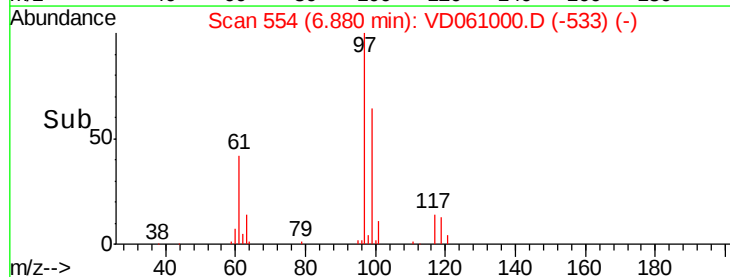
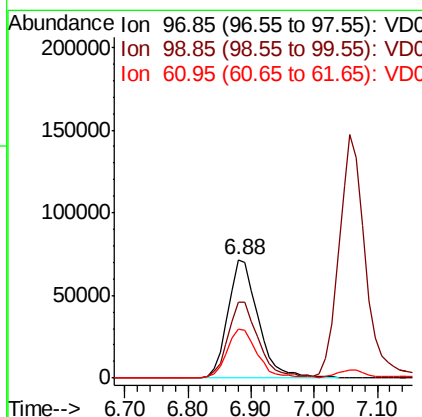
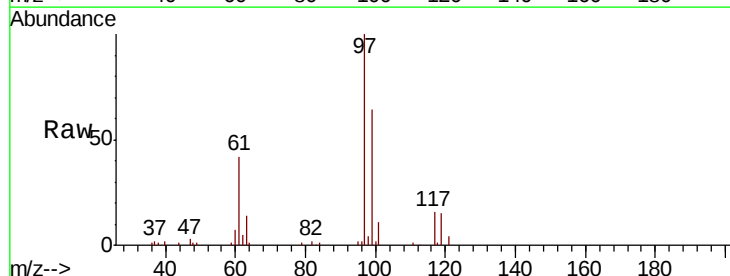
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

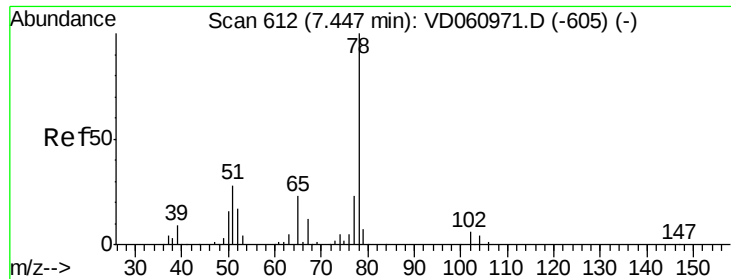
Tot Ion: 56 Resp: 227727
Ion Ratio Lower Upper
56 100
69 31.0 24.0 36.0
84 83.4 65.8 98.6



#32
1,1,1-Trichloroethane
Concen: 18.804 ug/l
RT: 6.88 min Scan# 554
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 97 Resp: 238875
Ion Ratio Lower Upper
97 100
99 64.0 53.2 79.8
61 41.7 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 18.804 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

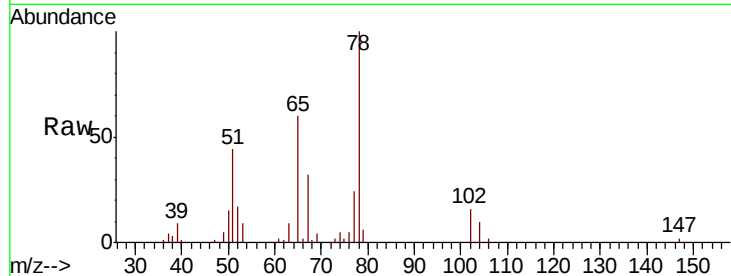
VD0311SBS01

Tot Ion: 65 Resp: 310476

Ion Ratio Lower Upper

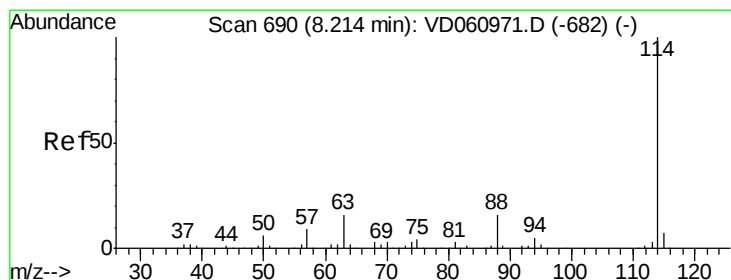
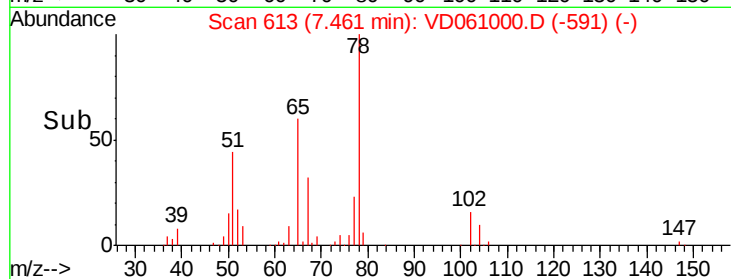
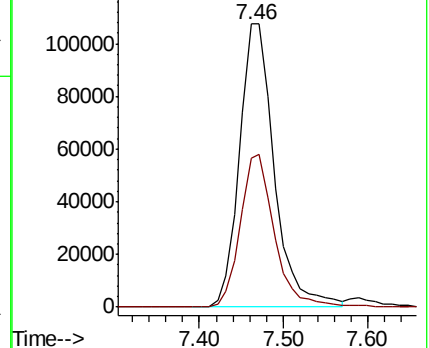
65 100

67 52.8 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: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

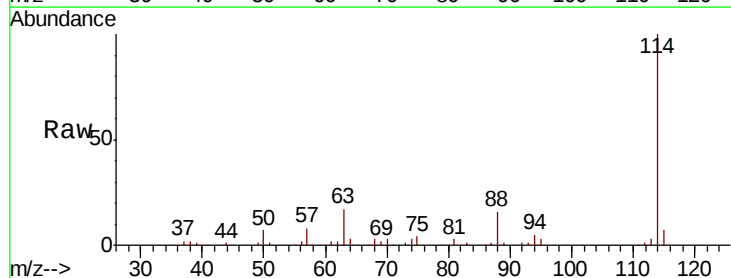
Tgt Ion: 114 Resp: 1295625

Ion Ratio Lower Upper

114 100

63 16.5 0.0 31.4

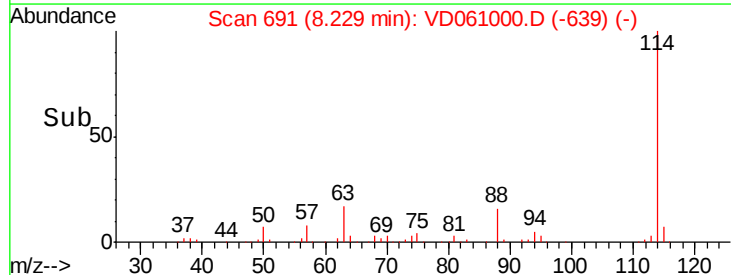
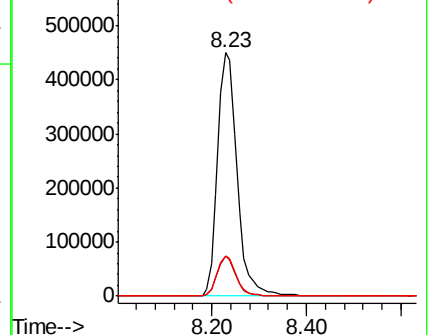
88 16.5 0.0 33.0

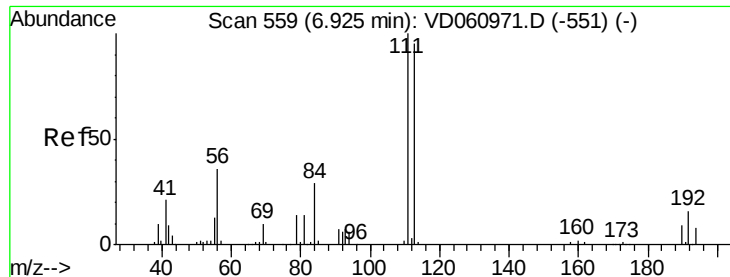


Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

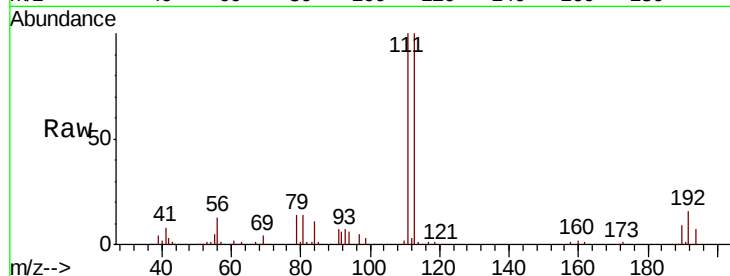
Tot Ion:113 Resp: 480910

Ion Ratio Lower Upper

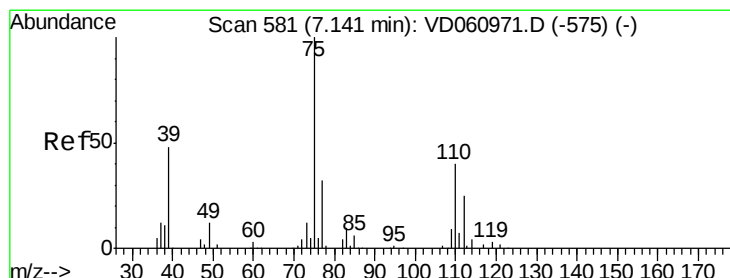
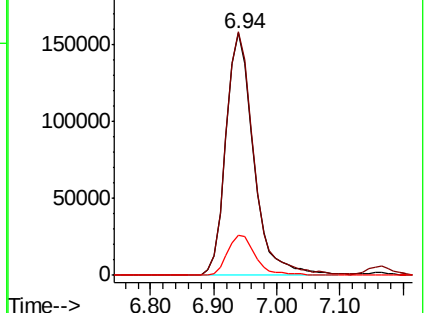
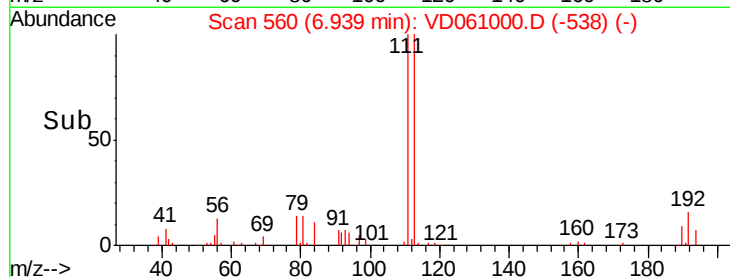
113 100

111 100.5 84.2 126.4

192 16.4 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: 19.156 ug/l

RT: 7.17 min Scan# 583

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

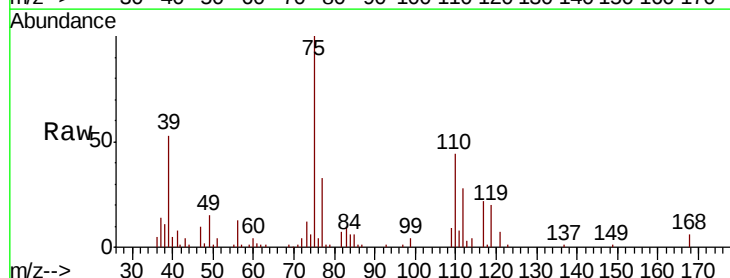
Tgt Ion: 75 Resp: 213933

Ion Ratio Lower Upper

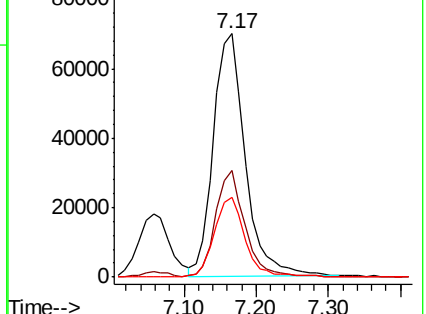
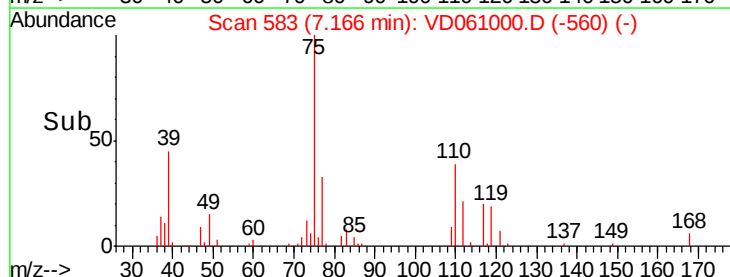
75 100

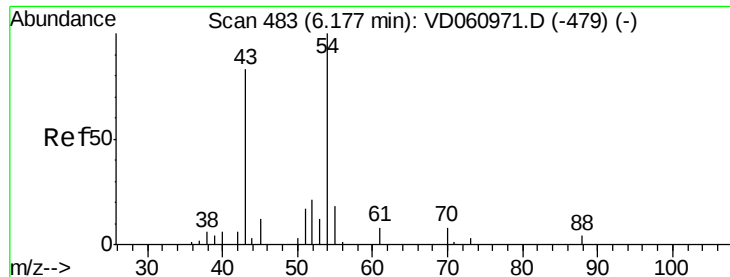
110 43.6 19.7 59.1

77 32.6 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

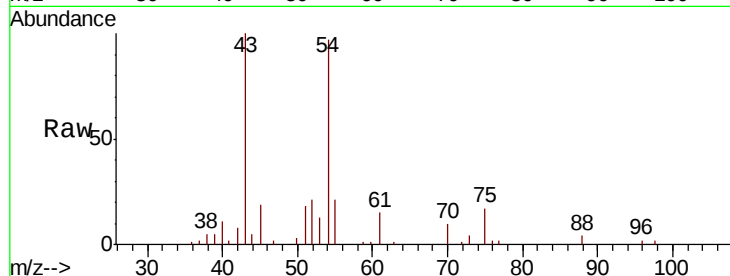




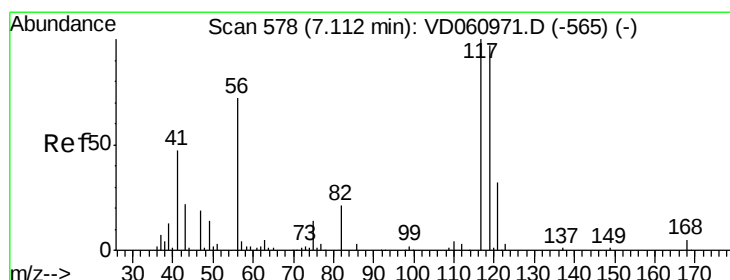
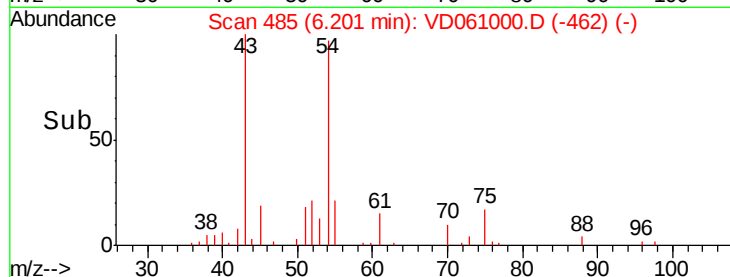
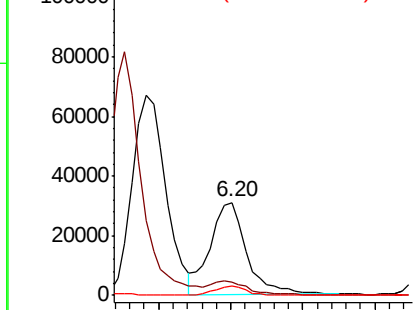
#37
Ethyl Acetate
Concen: 20.530 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.02 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

Tot Ion: 43 Resp: 107594
Ion Ratio Lower Upper
43 100
61 14.7 13.7 20.5
70 10.3 7.1 10.7

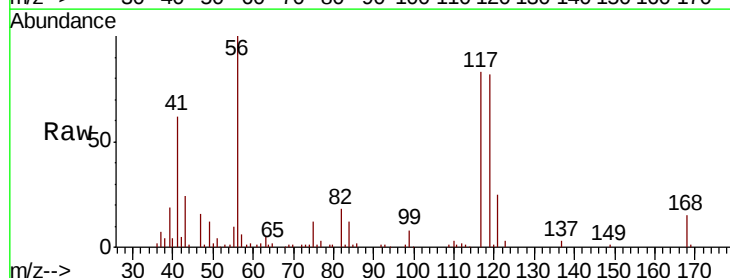


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

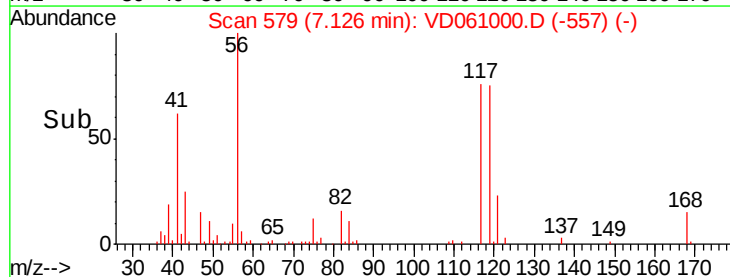
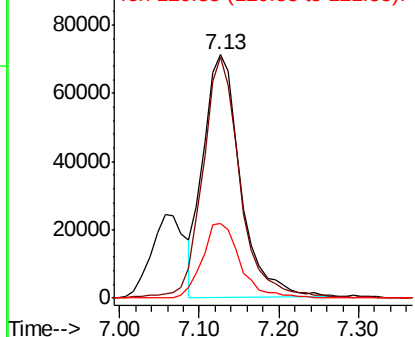


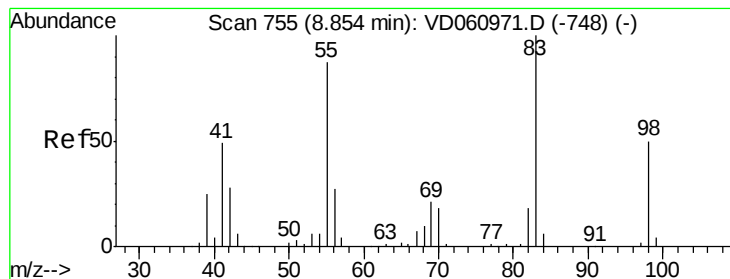
#38
Carbon Tetrachloride
Concen: 18.755 ug/l
RT: 7.13 min Scan# 579
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 117 Resp: 230724
Ion Ratio Lower Upper
117 100
119 98.9 77.8 116.8
121 30.6 25.3 37.9



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 19.824 ug/l

RT: 8.88 min Scan# 757

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

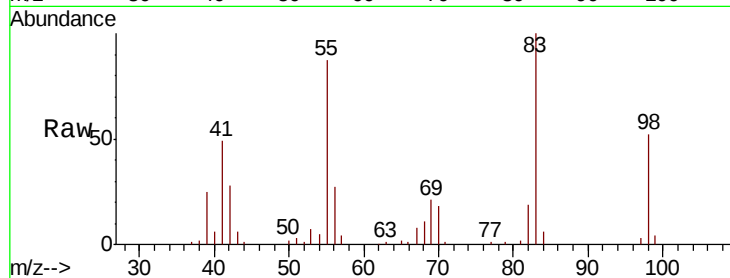
Tot Ion: 83 Resp: 229569

Ion Ratio Lower Upper

83 100

55 87.3 69.6 104.4

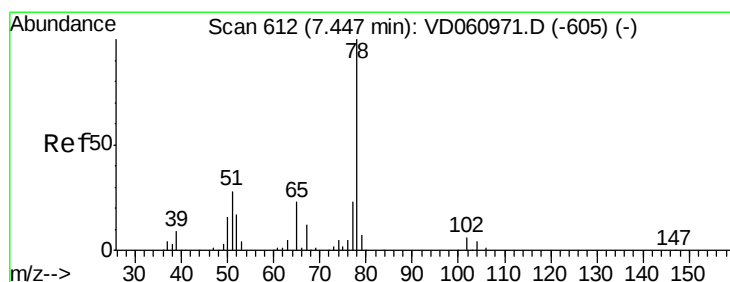
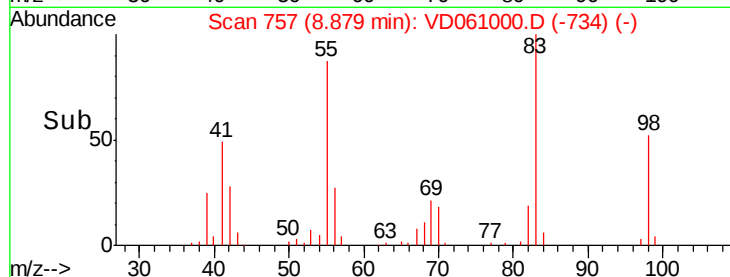
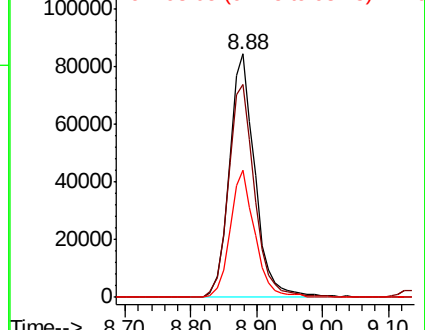
98 52.1 40.0 60.0



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: 20.098 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD061000.D

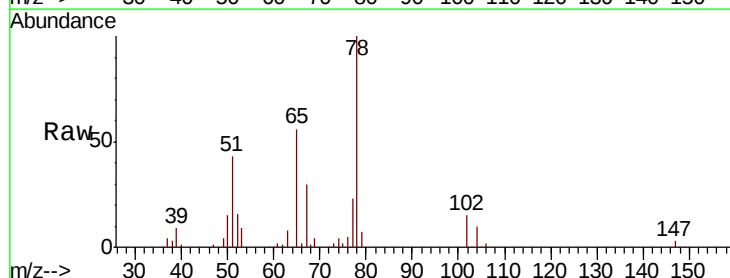
Acq: 11 Mar 2019 13:08

Tgt Ion: 78 Resp: 560866

Ion Ratio Lower Upper

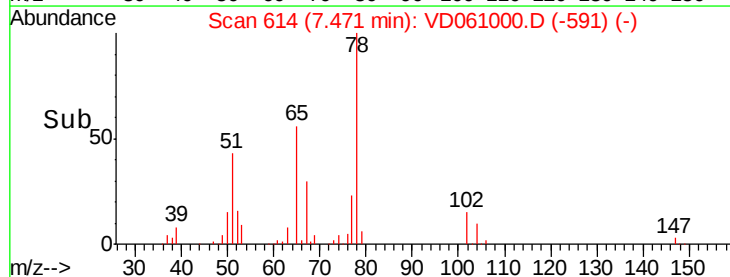
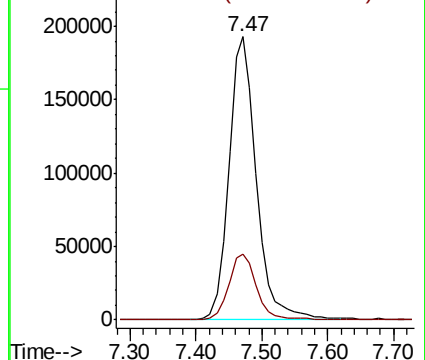
78 100

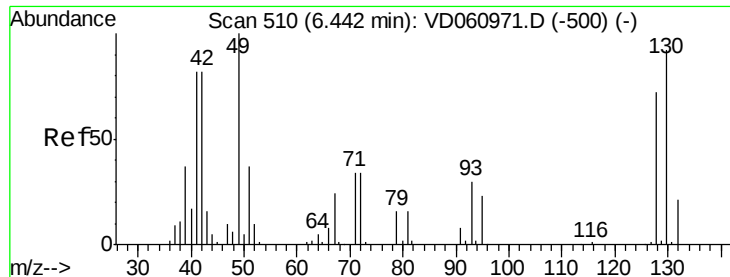
77 23.4 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

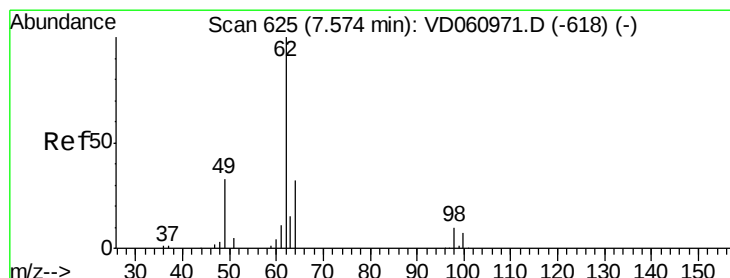
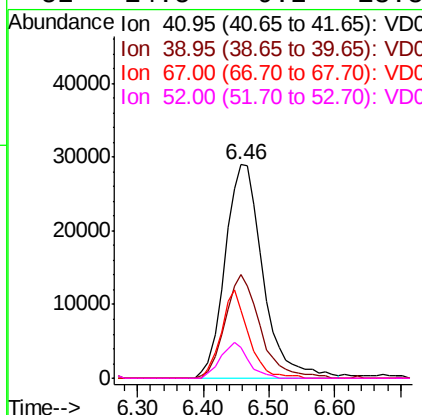
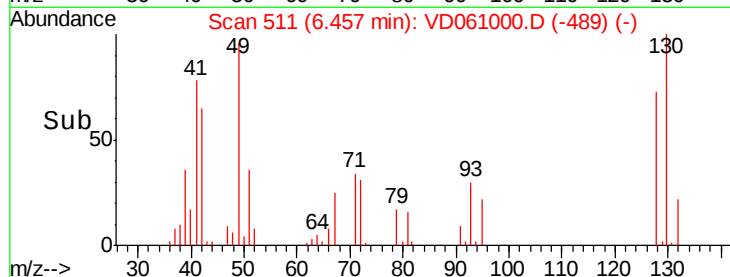
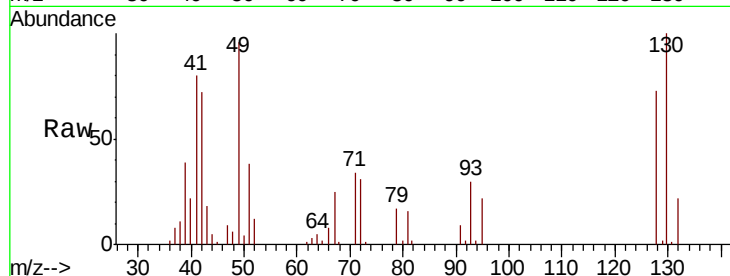




#41
Methacrylonitrile
Concen: 19.343 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

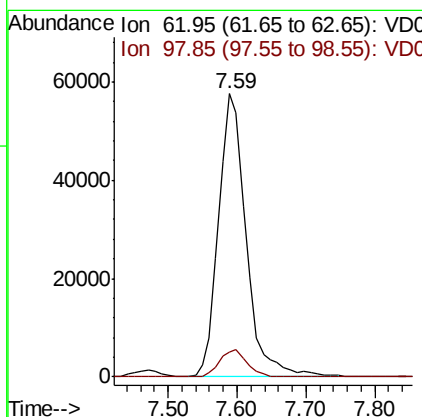
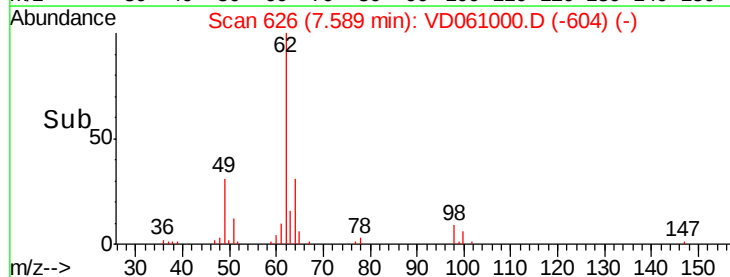
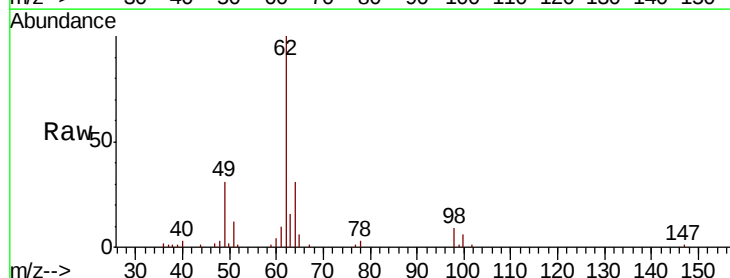
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

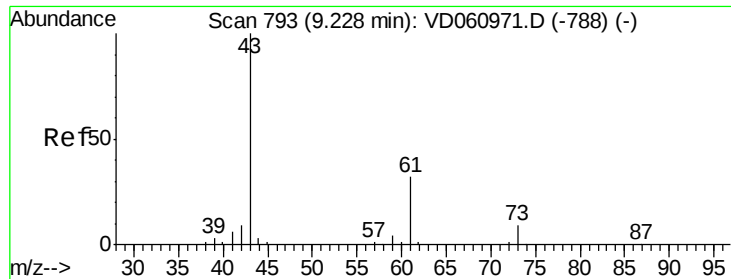
Tot Ion: 41 Resp: 116602
Ion Ratio Lower Upper
41 100
39 48.4 35.7 53.5
67 31.9 23.0 34.6
52 14.5 9.2 13.8#



#42
1,2-Dichloroethane
Concen: 19.810 ug/l
RT: 7.59 min Scan# 626
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 62 Resp: 160427
Ion Ratio Lower Upper
62 100
98 9.0 0.0 20.4



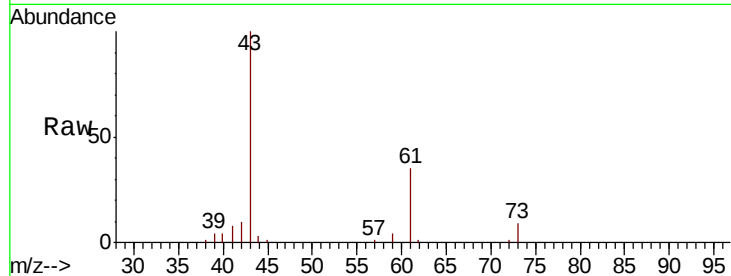


#43

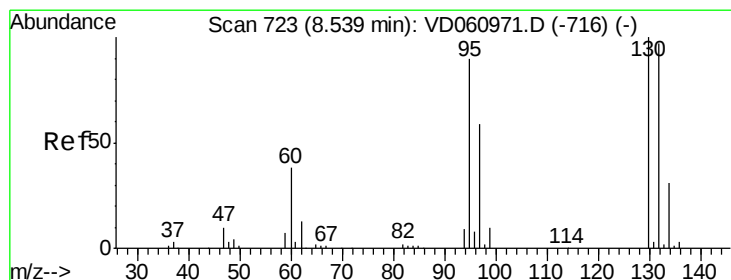
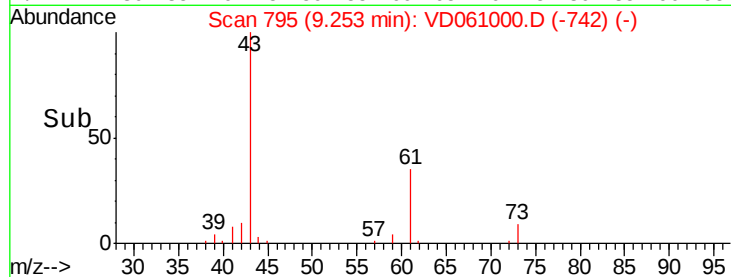
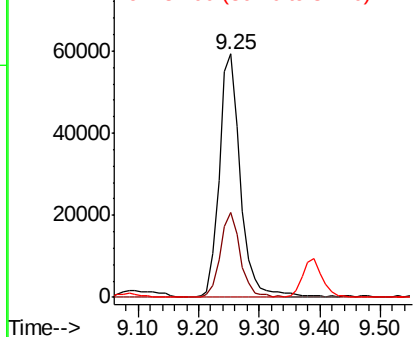
Isopropyl Acetate
 Concen: 19.805 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.02 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

Tot Ion: 43 Resp: 143762
 Ion Ratio Lower Upper
 43 100
 61 34.9 25.6 38.4
 87 0.0 0.2 0.4#



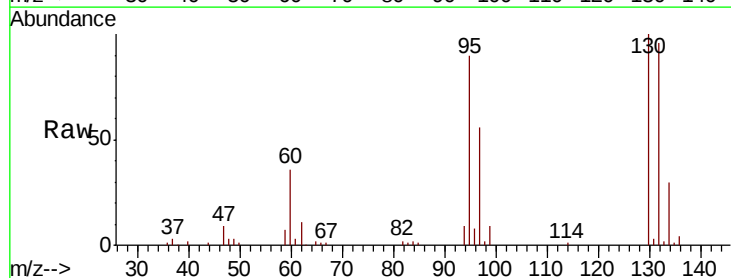
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



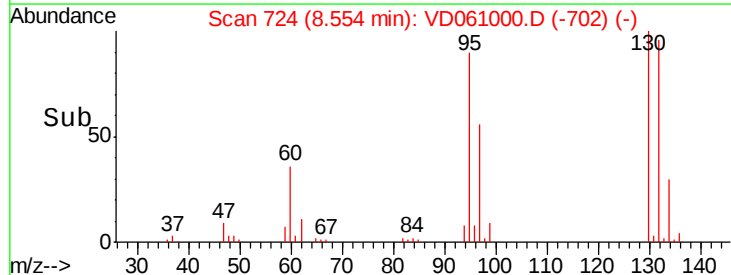
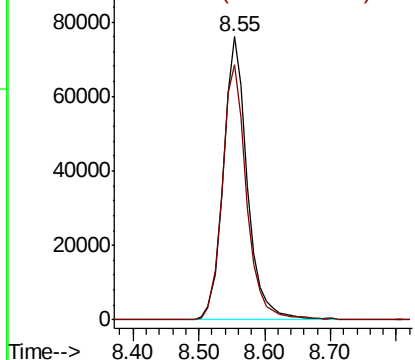
#44

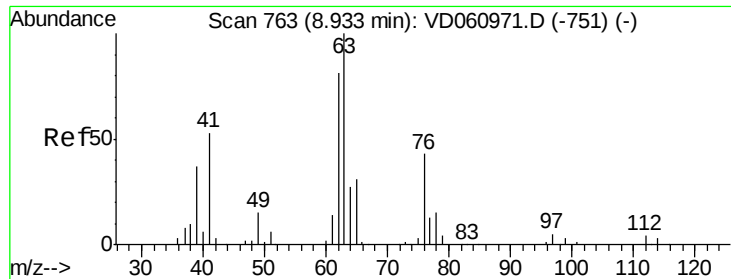
Trichloroethene
 Concen: 20.092 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion:130 Resp: 193440
 Ion Ratio Lower Upper
 130 100
 95 90.3 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: 18.273 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

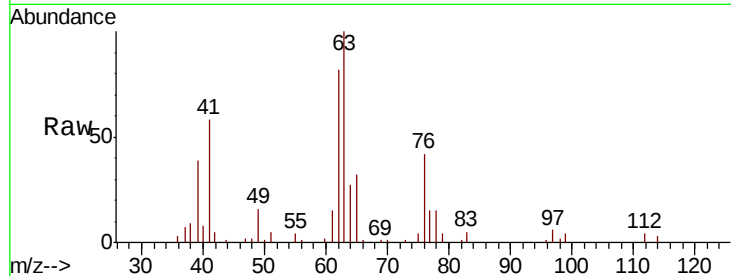
VD0311SBS01

Tot Ion: 63 Resp: 133971

Ion Ratio Lower Upper

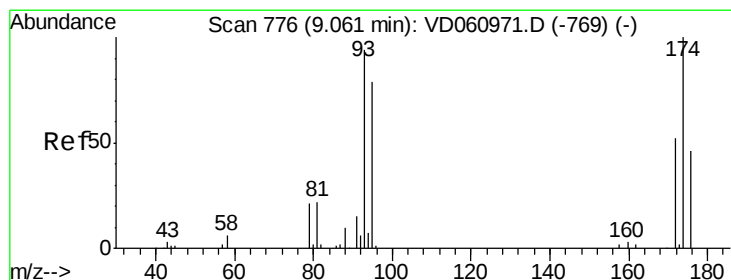
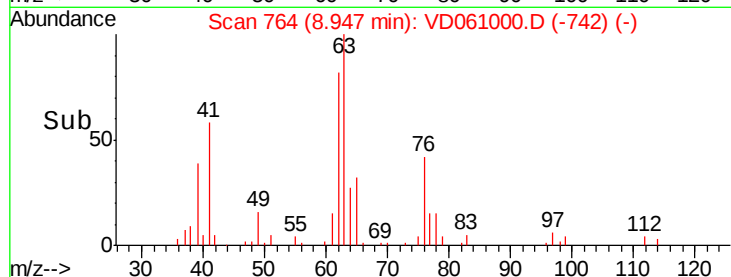
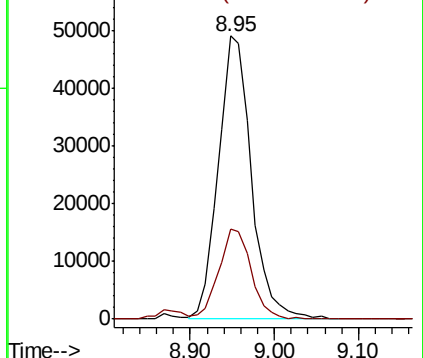
63 100

65 31.9 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: 19.569 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

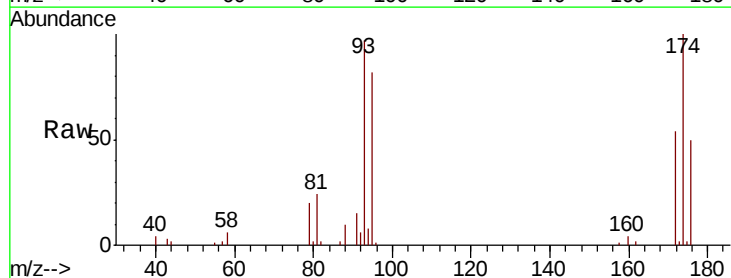
Tgt Ion: 93 Resp: 91007

Ion Ratio Lower Upper

93 100

95 84.2 67.4 101.0

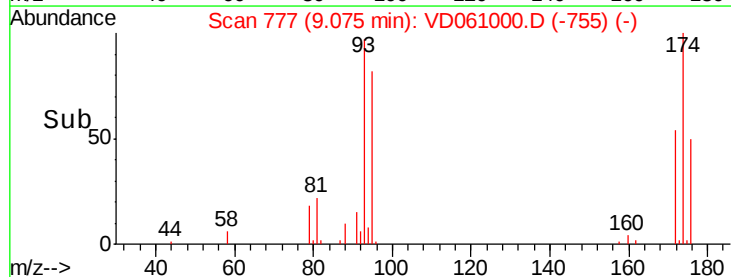
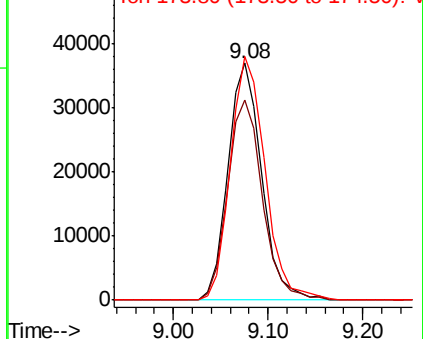
174 102.7 85.4 128.0

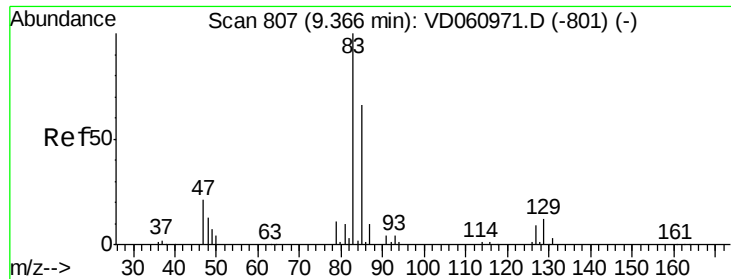


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 19.767 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

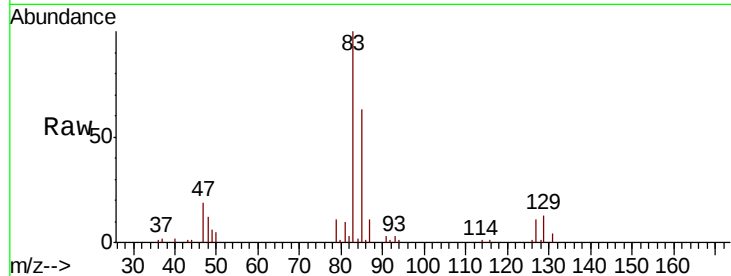
Tot Ion: 83 Resp: 207442

Ion Ratio Lower Upper

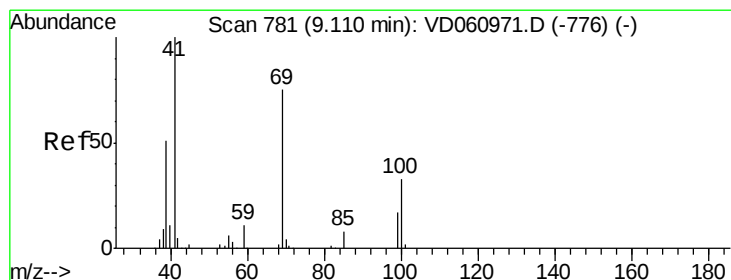
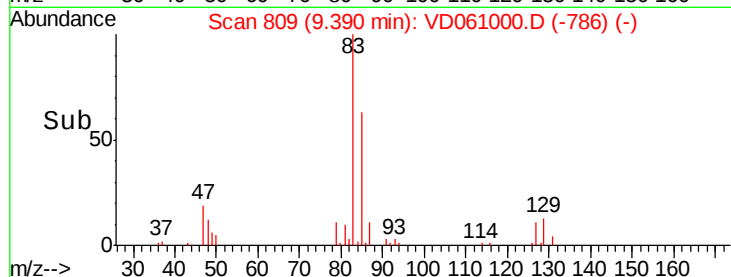
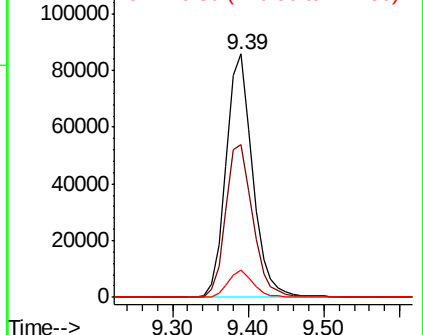
83 100

85 62.8 52.5 78.7

127 11.3 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: 19.030 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

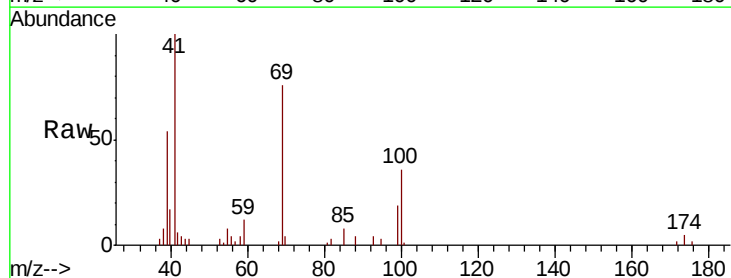
Tgt Ion: 41 Resp: 77775

Ion Ratio Lower Upper

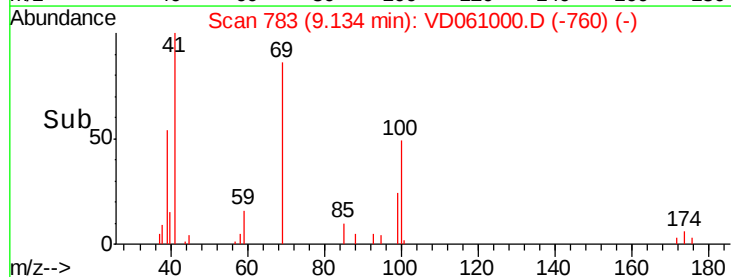
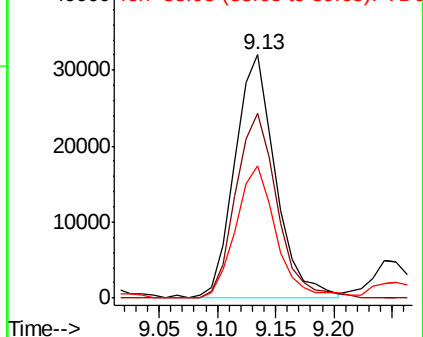
41 100

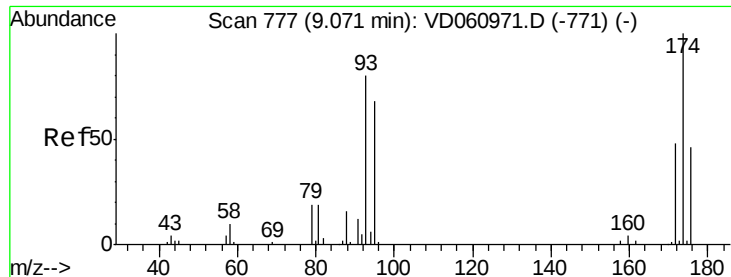
69 75.8 59.9 89.9

39 54.3 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: 440.255 ug/l

RT: 9.10 min Scan# 779

Delta R.T. 0.02 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

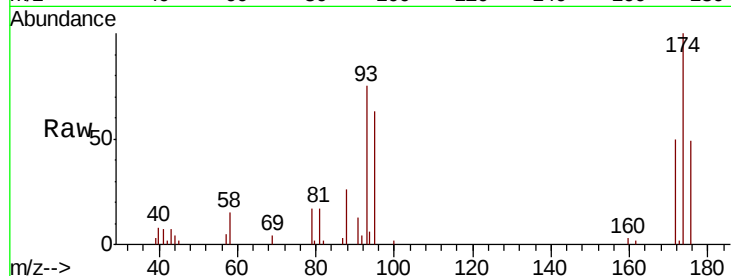
Tot Ion: 88 Resp: 18194

Ion Ratio Lower Upper

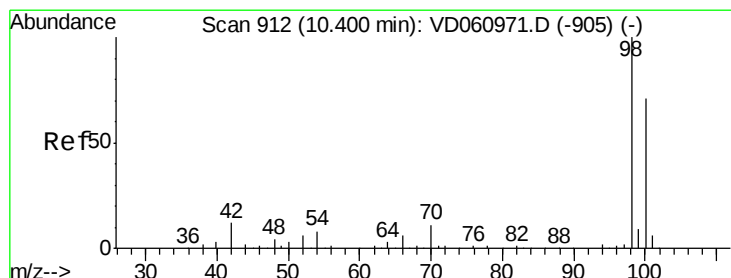
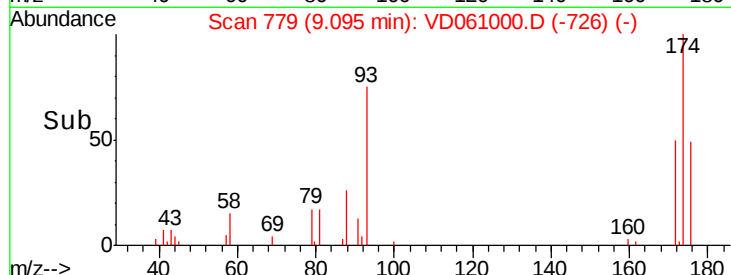
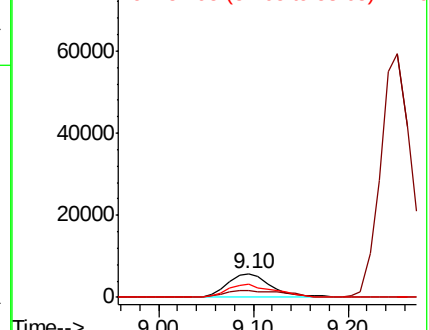
88 100

43 27.0 21.0 31.6

58 55.8 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: 440.255 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061000.D

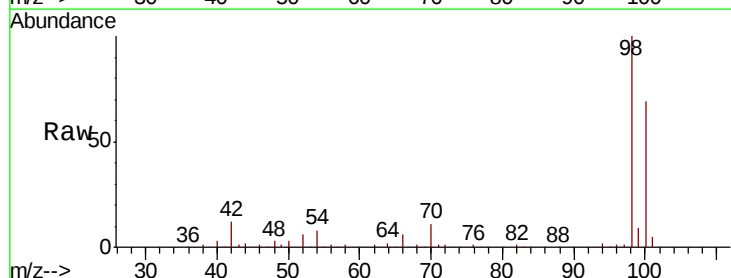
Acq: 11 Mar 2019 13:08

Tgt Ion: 98 Resp: 1202274

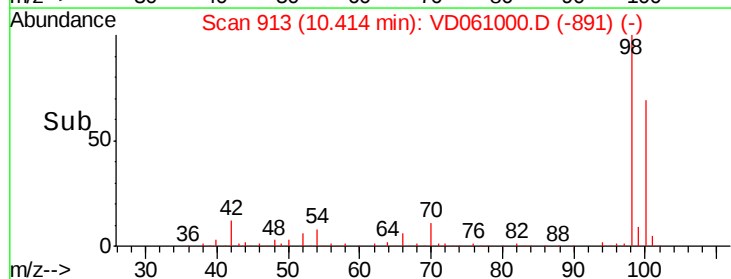
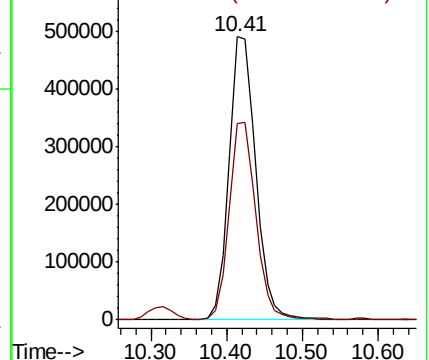
Ion Ratio Lower Upper

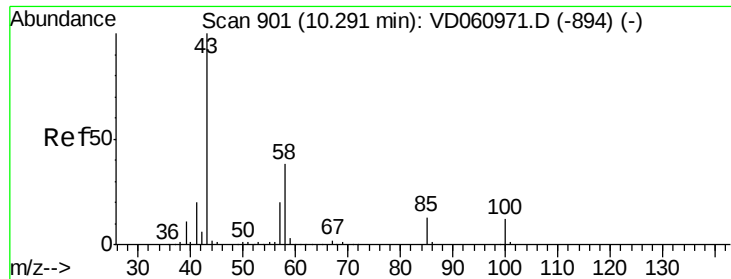
98 100

100 69.5 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: 97.876 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

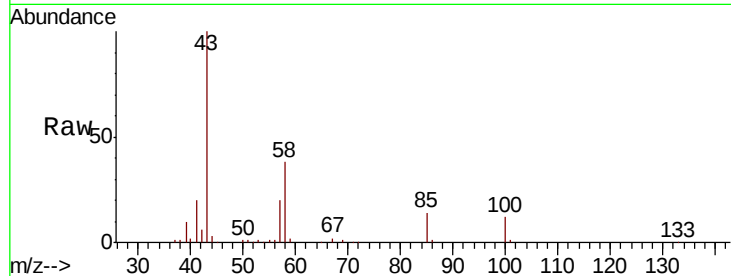
VD0311SBS01

Tot Ion: 43 Resp: 435243

Ion Ratio Lower Upper

43 100

58 38.0 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

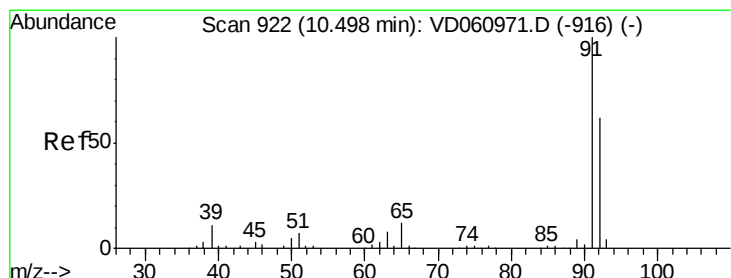
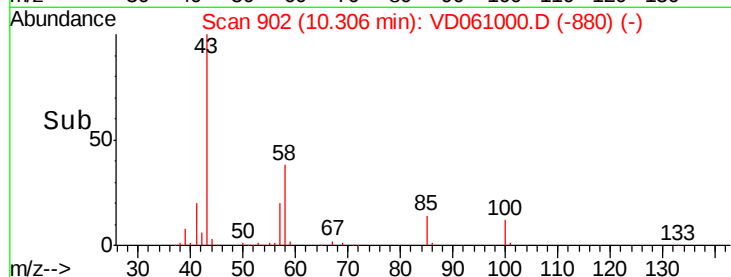
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.995 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD061000.D

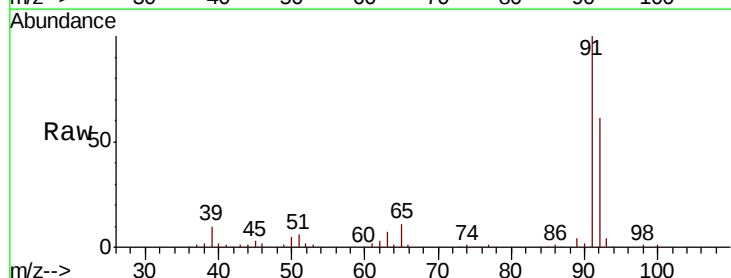
Acq: 11 Mar 2019 13:08

Tgt Ion: 92 Resp: 346980

Ion Ratio Lower Upper

92 100

91 163.4 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

250000

200000

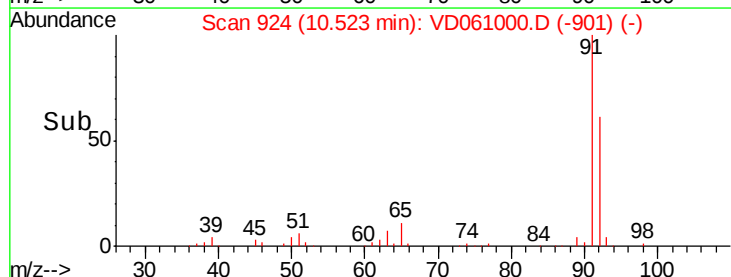
150000

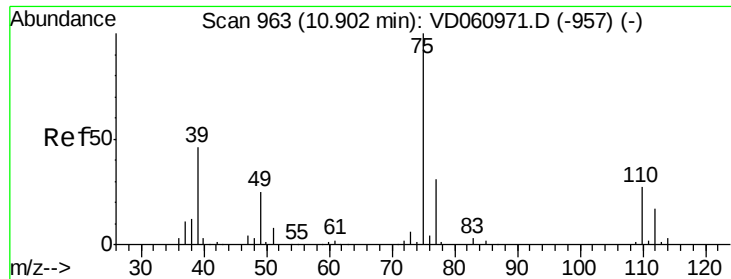
100000

50000

0

Time-->

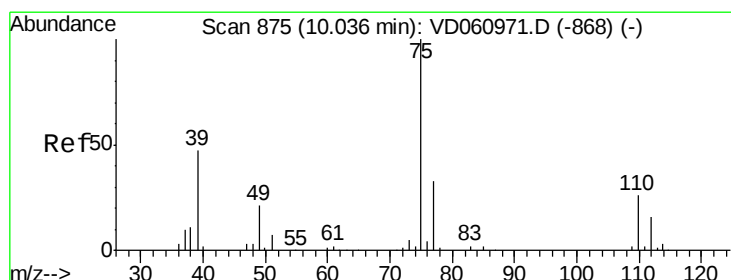
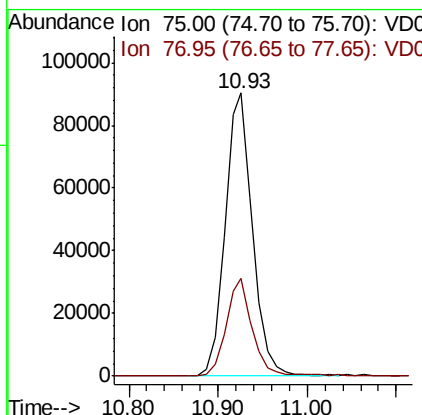
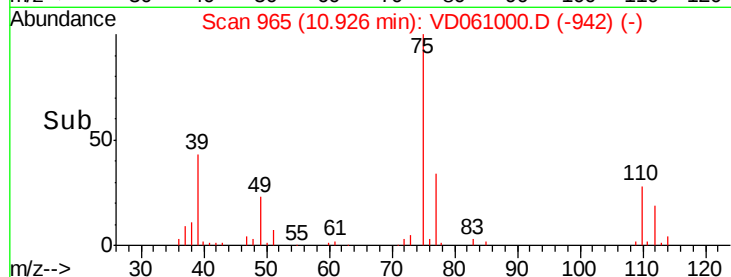
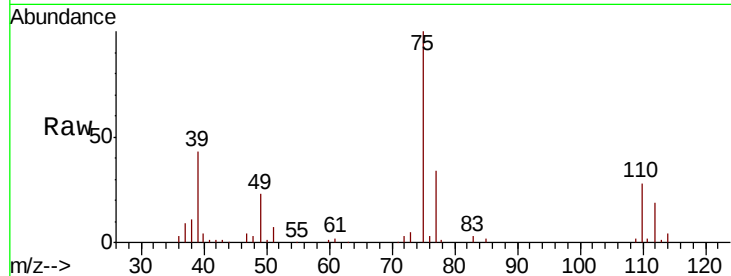




#53
 t-1,3-Dichloropropene
 Concen: 20.206 ug/l
 RT: 10.93 min Scan# 965
 Delta R.T. 0.02 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

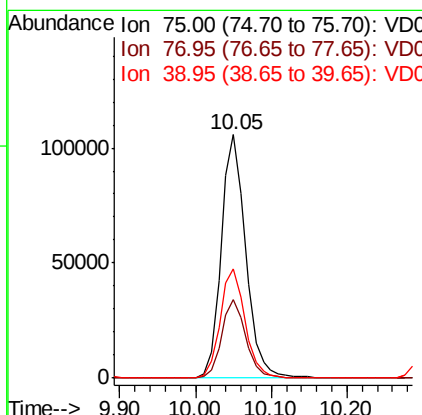
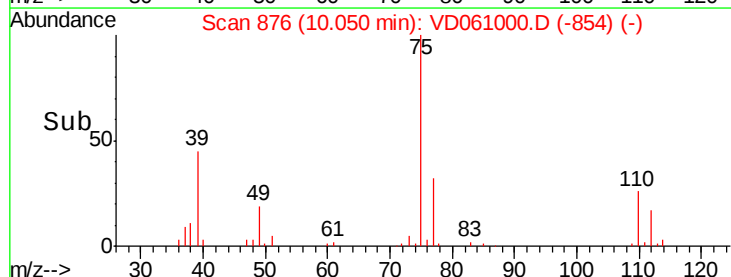
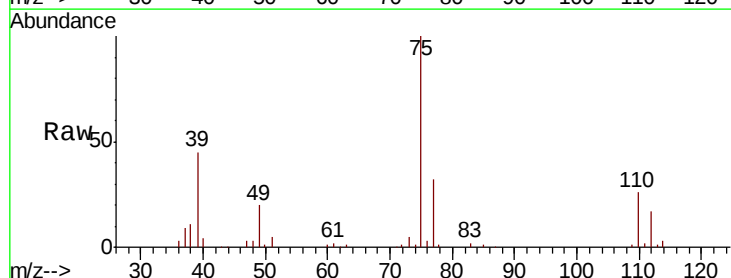
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

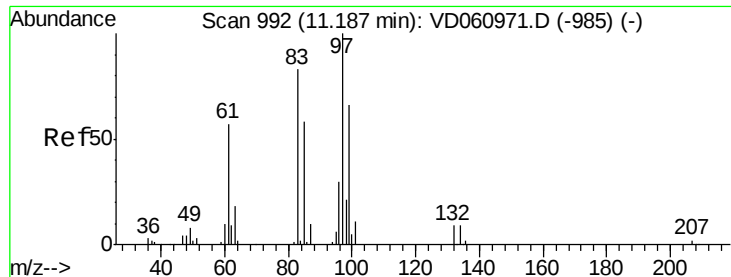
Tot Ion: 75 Resp: 193895
 Ion Ratio Lower Upper
 75 100
 77 34.4 24.7 37.1



#54
 cis-1,3-Dichloropropene
 Concen: 20.537 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion: 75 Resp: 236796
 Ion Ratio Lower Upper
 75 100
 77 32.2 26.2 39.4
 39 45.0 37.8 56.8

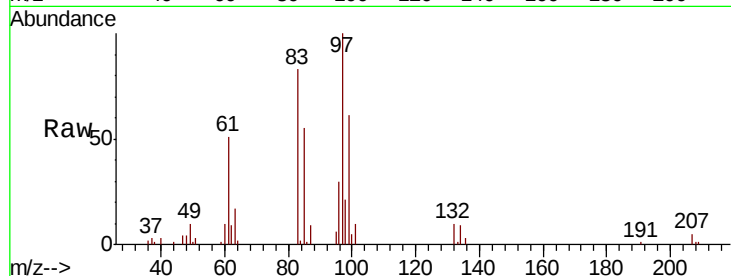




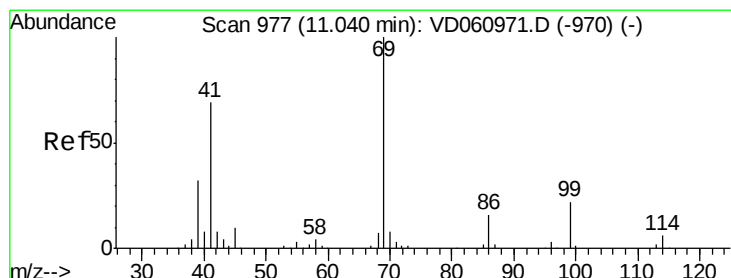
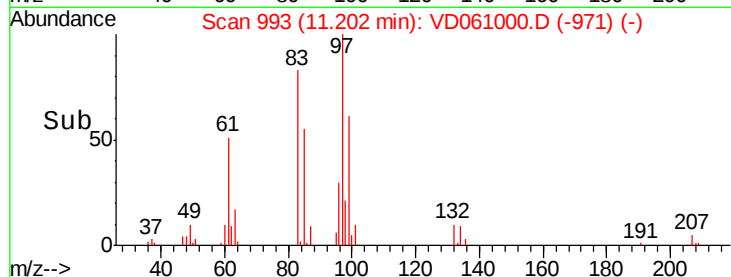
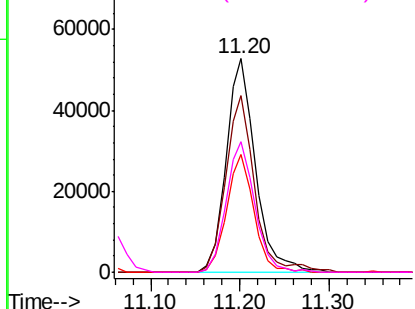
#55
 1,1,2-Trichloroethane
 Concen: 21.091 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

Tot Ion: 97 Resp: 121883
 Ion Ratio Lower Upper
 97 100
 83 82.9 66.6 100.0
 85 55.3 46.4 69.6
 99 61.1 52.4 78.6

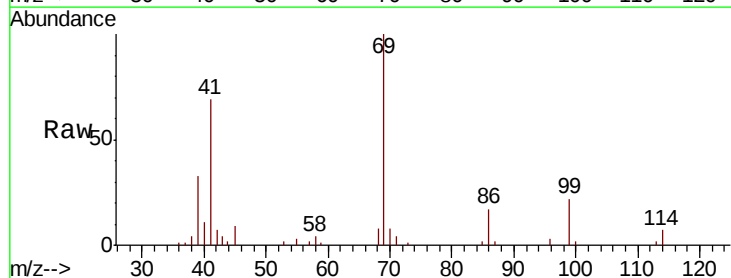


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

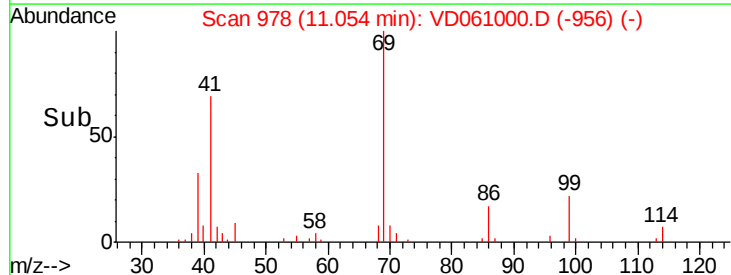
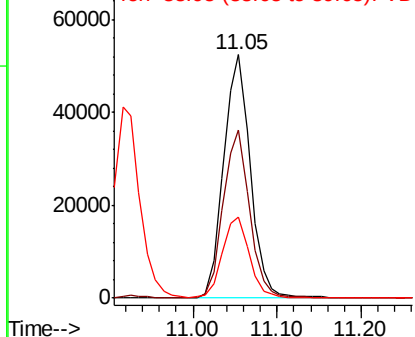


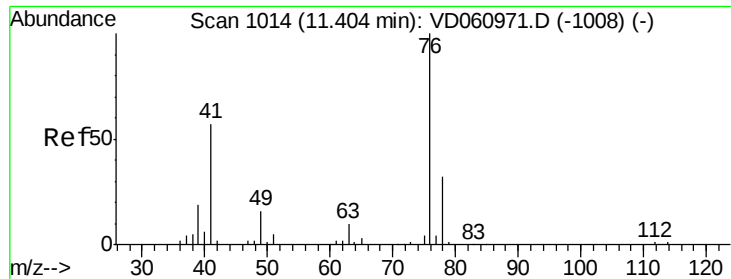
#56
 Ethyl methacrylate
 Concen: 19.052 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion: 69 Resp: 115247
 Ion Ratio Lower Upper
 69 100
 41 69.3 55.5 83.3
 39 33.2 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: 20.641 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

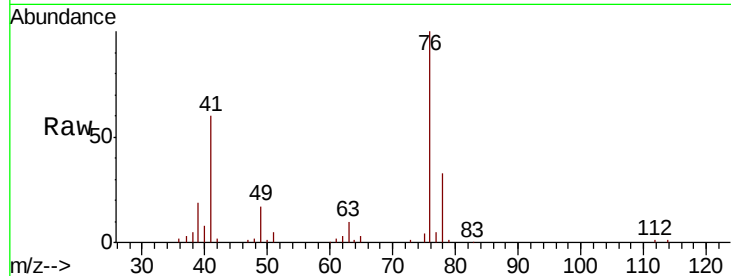
VD0311SBS01

Tot Ion: 76 Resp: 178260

Ion Ratio Lower Upper

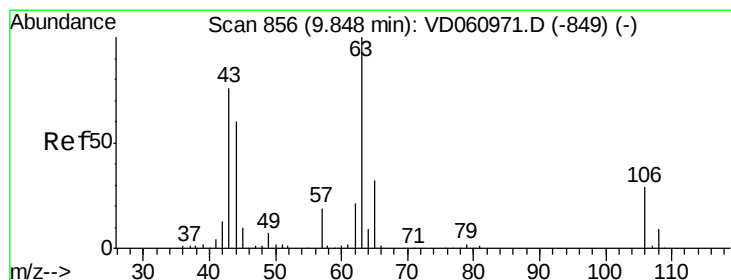
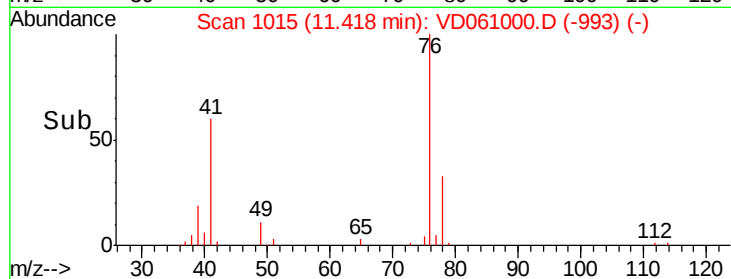
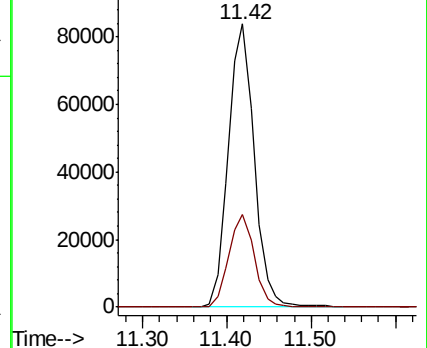
76 100

78 32.9 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: 90.455 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD061000.D

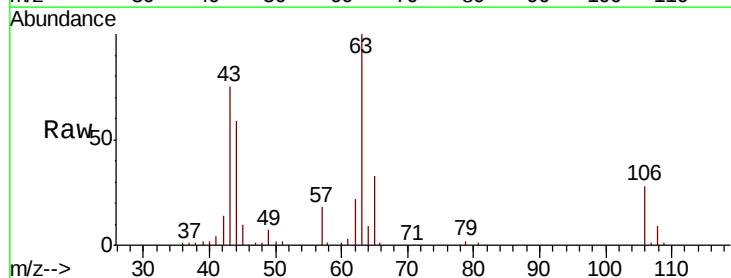
Acq: 11 Mar 2019 13:08

Tgt Ion: 63 Resp: 289622

Ion Ratio Lower Upper

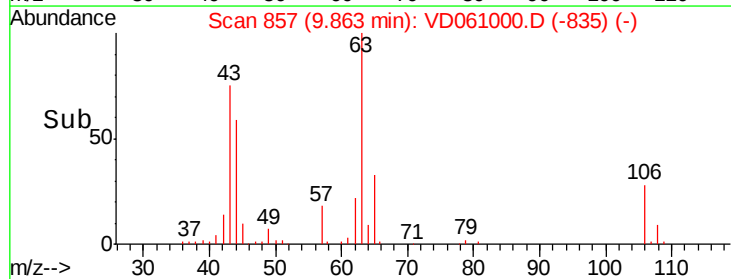
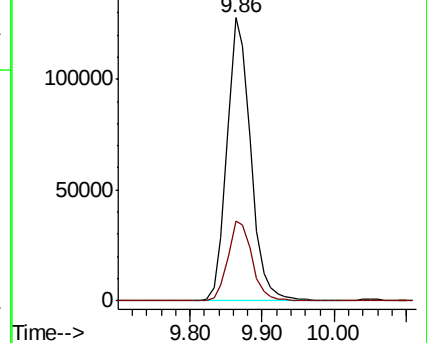
63 100

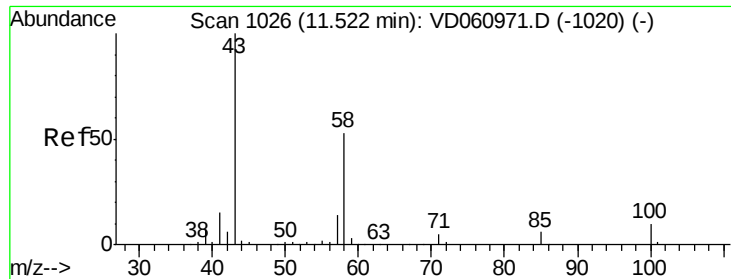
106 28.2 22.8 34.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

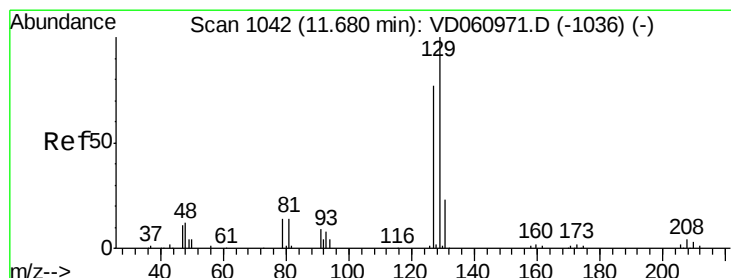
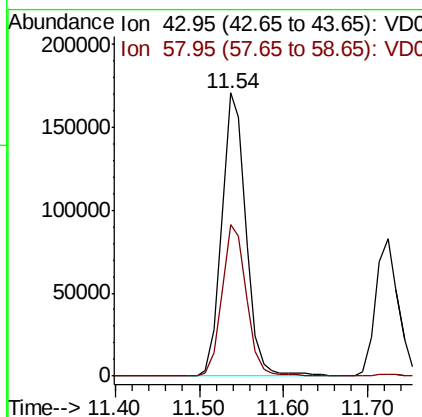
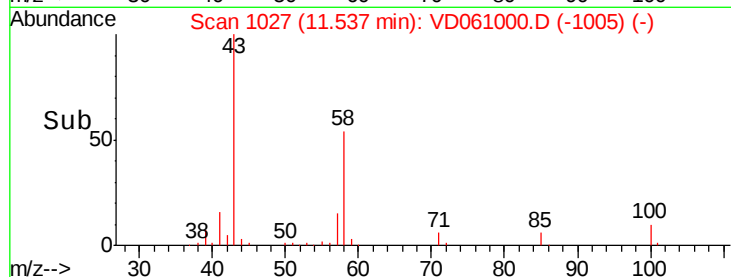
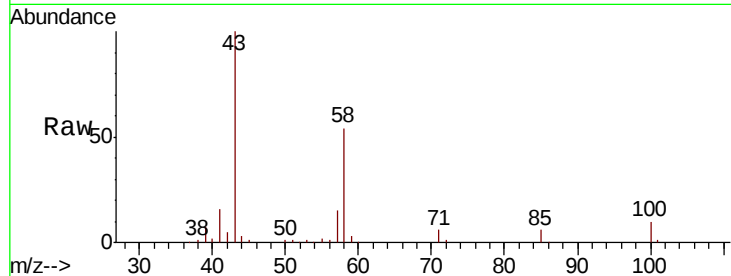




#59
2-Hexanone
Concen: 104.416 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

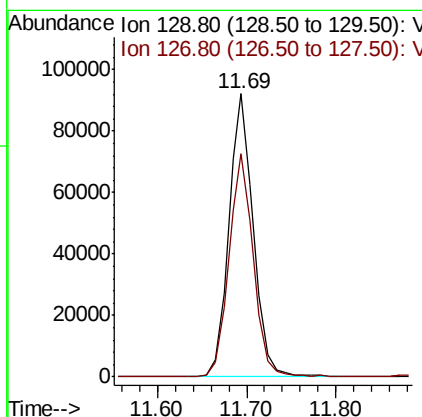
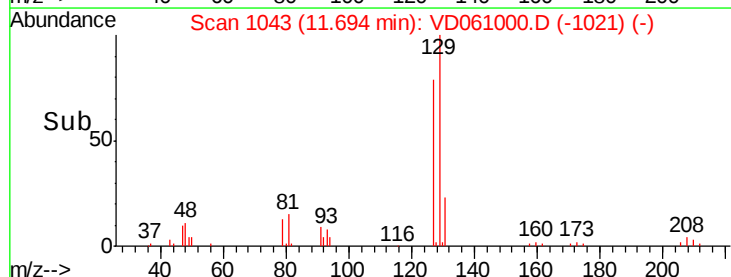
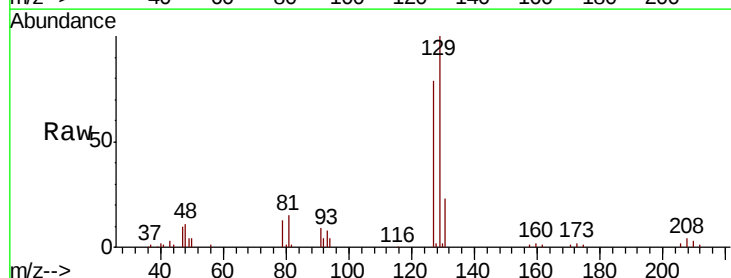
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

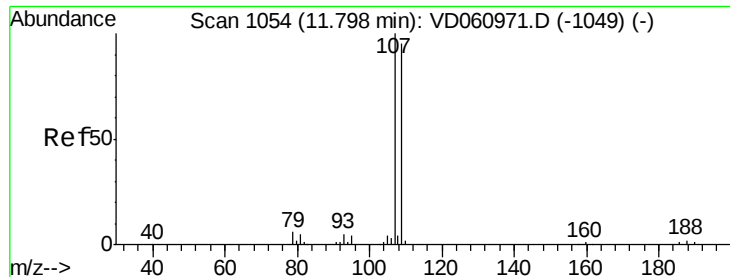
Tot Ion: 43 Resp: 339651
Ion Ratio Lower Upper
43 100
58 53.6 26.5 79.5



#60
Dibromochloromethane
Concen: 20.798 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 129 Resp: 176886
Ion Ratio Lower Upper
129 100
127 78.9 38.3 114.9





#61

1,2-Dibromoethane

Concen: 19.916 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

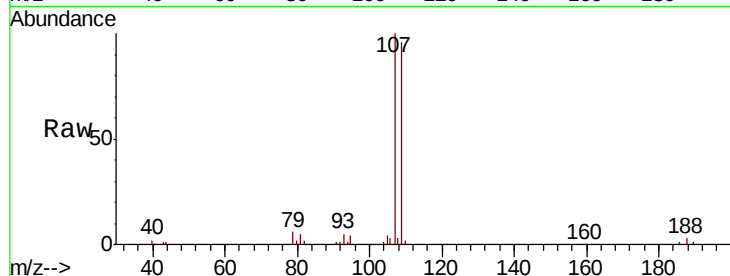
VD0311SBS01

Tot Ion:107 Resp: 133887

Ion Ratio Lower Upper

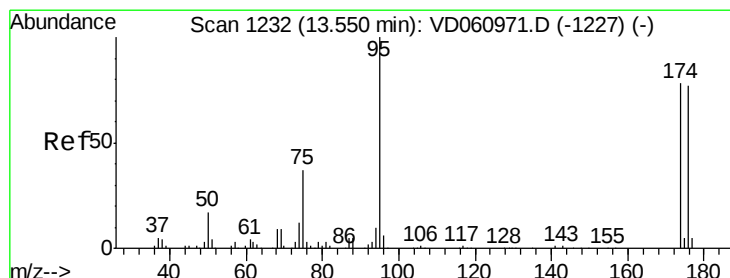
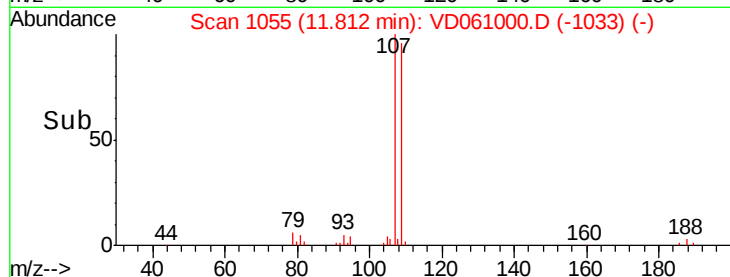
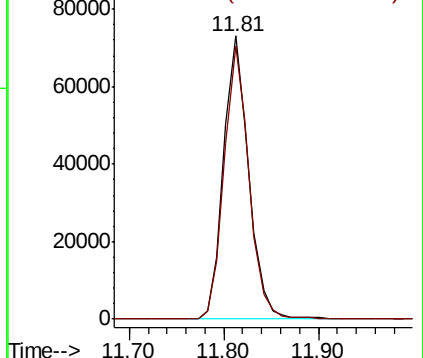
107 100

109 96.5 75.6 113.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 19.916 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

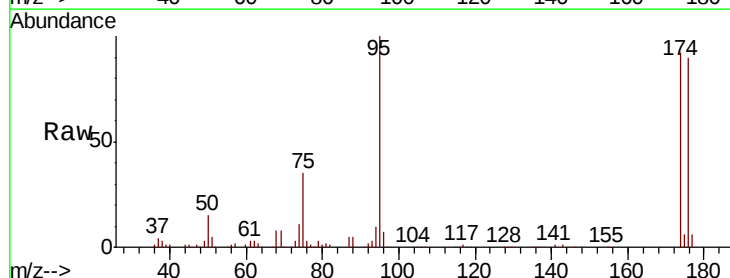
Tgt Ion: 95 Resp: 426623

Ion Ratio Lower Upper

95 100

174 91.6 0.0 155.6

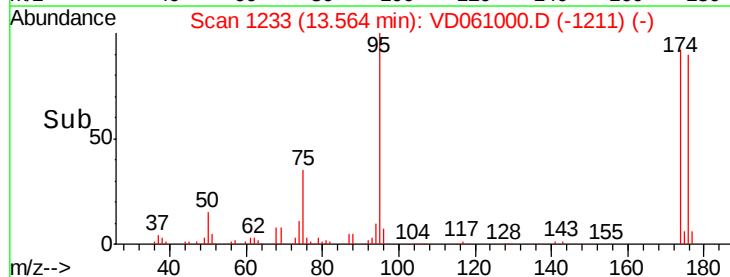
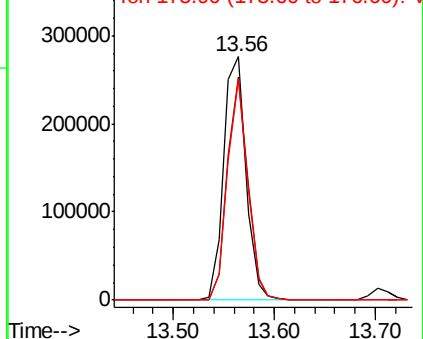
176 90.4 0.0 153.8

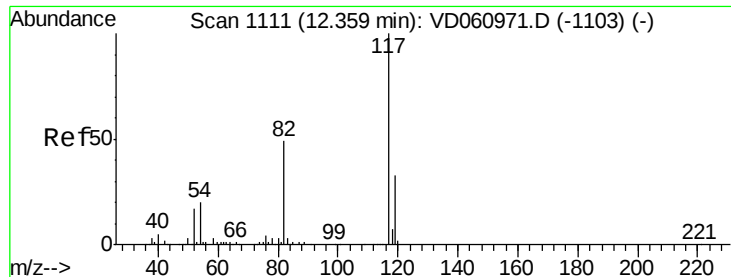


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

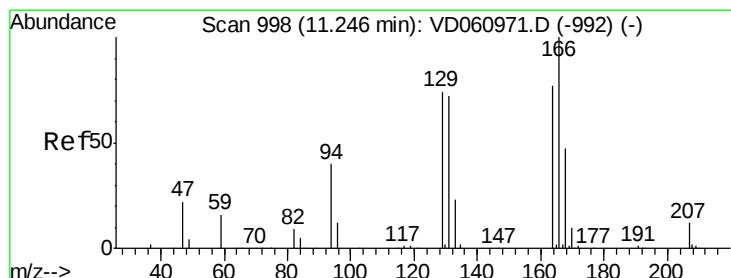
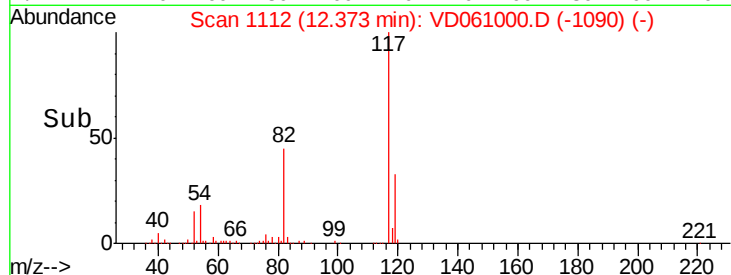
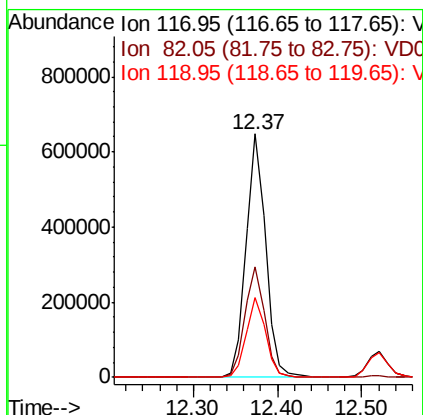
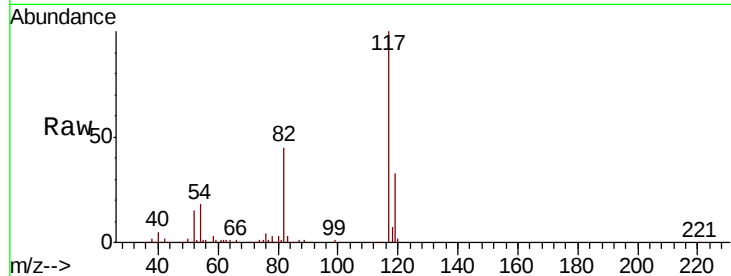




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

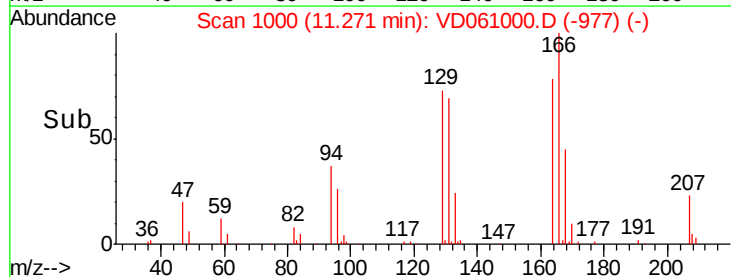
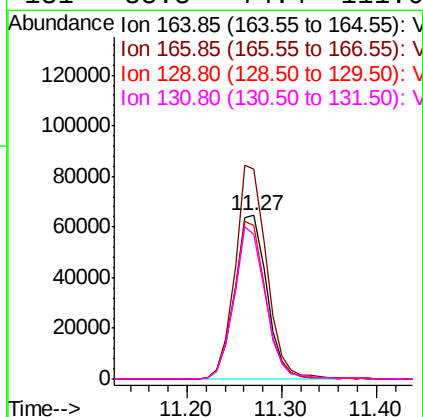
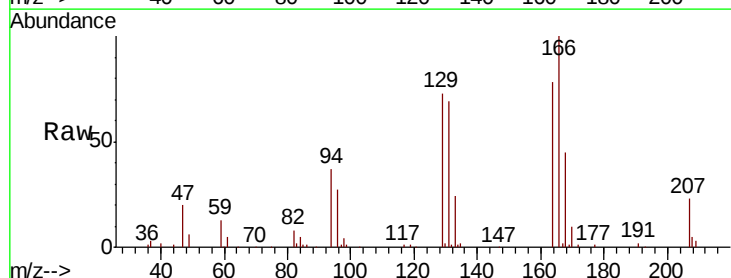
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

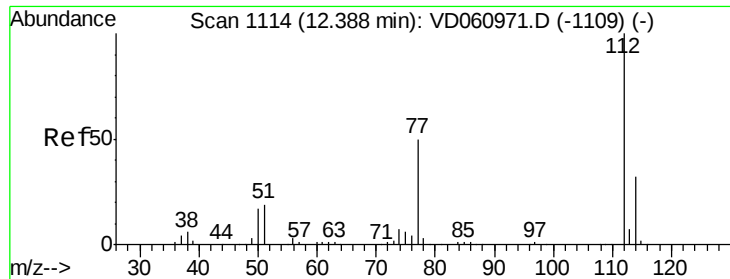
Tot Ion:117 Resp: 1057612
Ion Ratio Lower Upper
117 100
82 45.4 38.9 58.3
119 32.5 26.6 39.8



#64
Tetrachloroethene
Concen: 21.345 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.02 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion:164 Resp: 152387
Ion Ratio Lower Upper
164 100
166 128.8 103.4 155.0
129 94.3 76.9 115.3
131 88.8 74.4 111.6

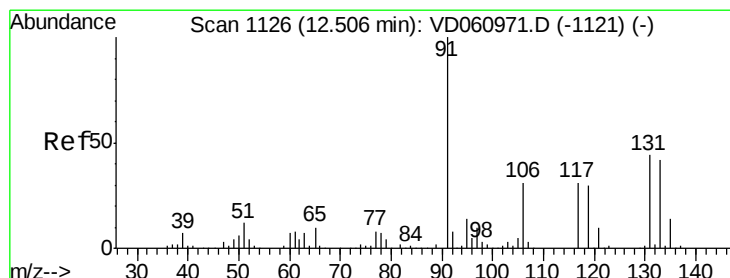
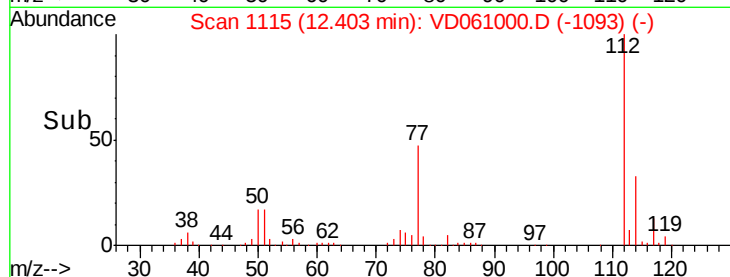
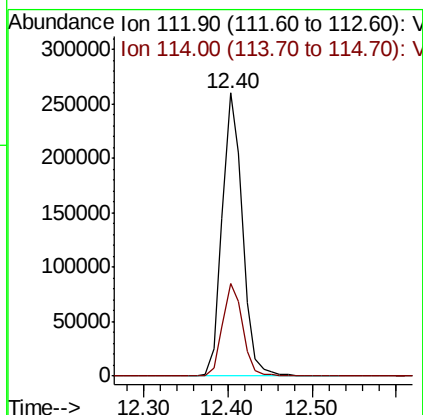
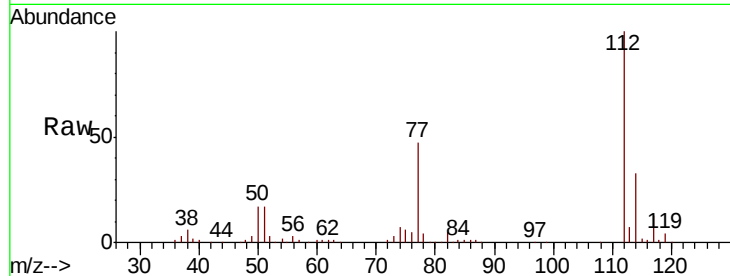




#65
Chlorobenzene
Concen: 20.957 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

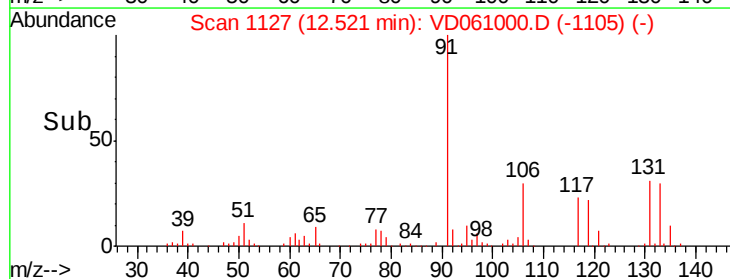
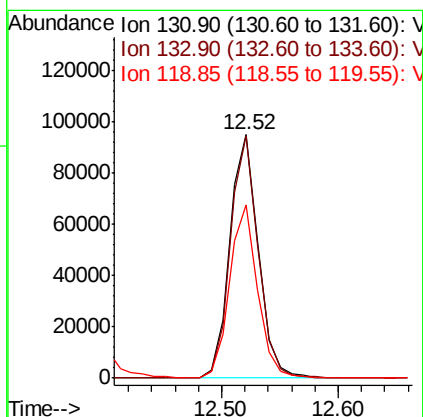
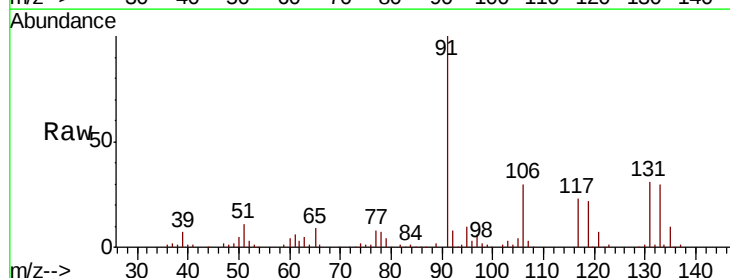
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

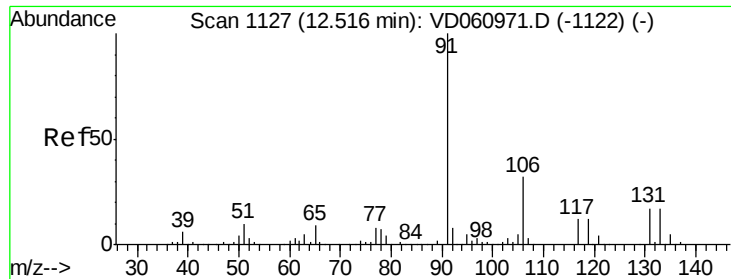
Tot Ion:112 Resp: 434517
Ion Ratio Lower Upper
112 100
114 32.6 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 21.655 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion:131 Resp: 160040
Ion Ratio Lower Upper
131 100
133 99.5 47.8 143.3
119 71.2 34.3 102.9

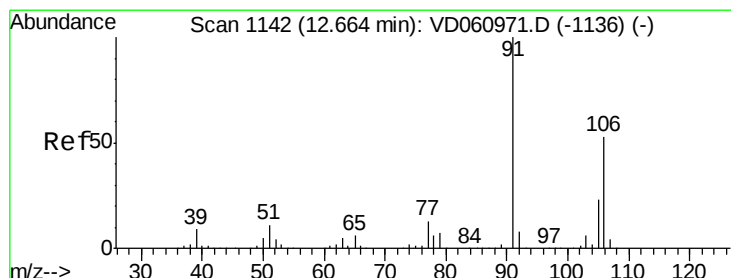
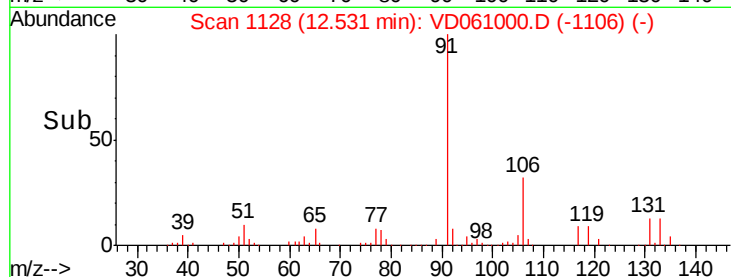
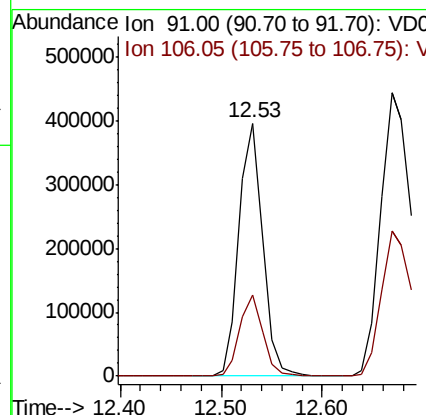
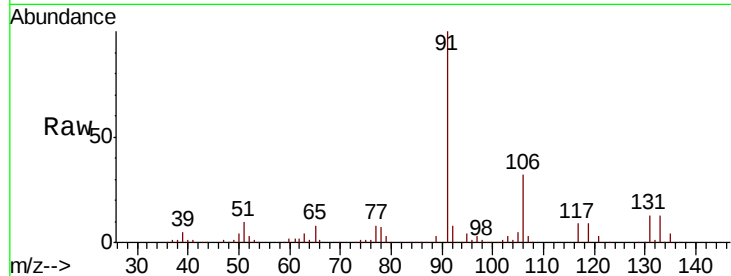




#67
Ethyl Benzene
Concen: 20.973 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

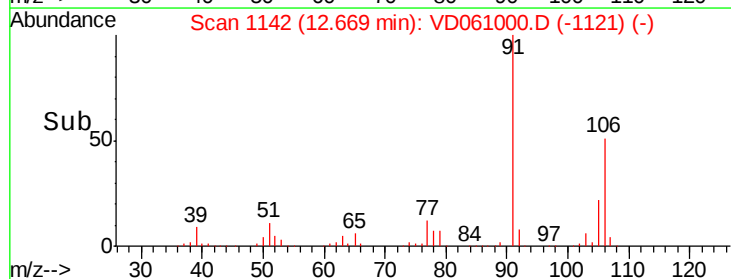
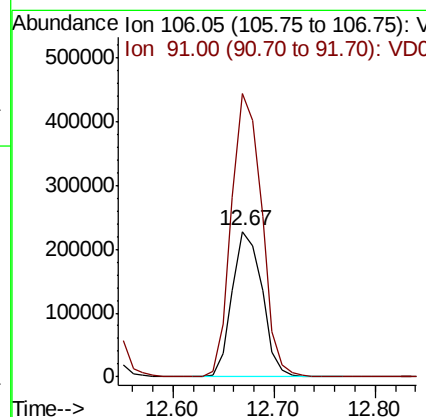
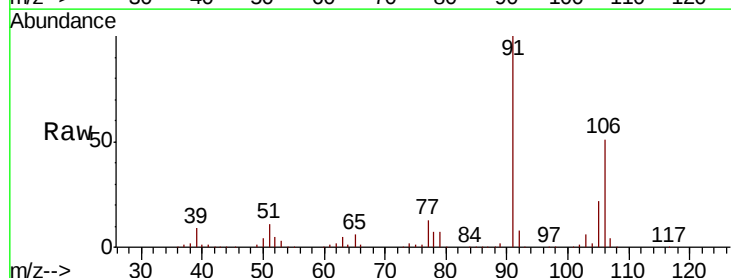
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

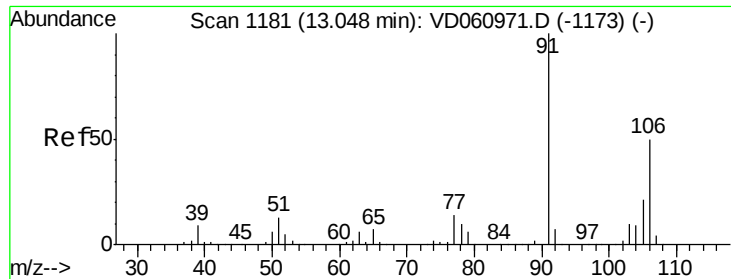
Tot Ion: 91 Resp: 647371
Ion Ratio Lower Upper
91 100
106 32.2 25.7 38.5



#68
m/p-Xylenes
Concen: 38.983 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 106 Resp: 472283
Ion Ratio Lower Upper
106 100
91 194.3 152.0 228.0

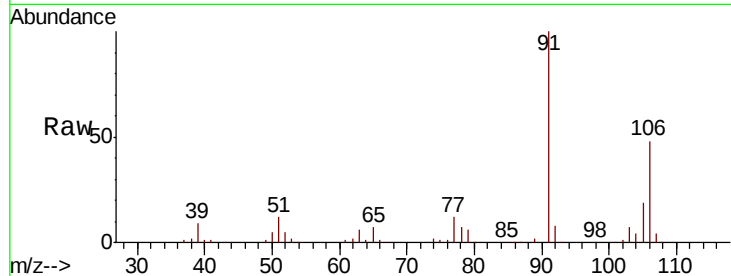




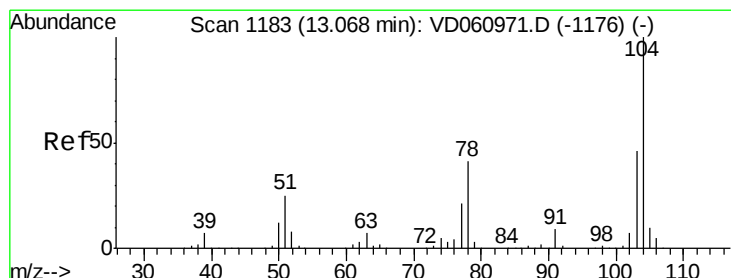
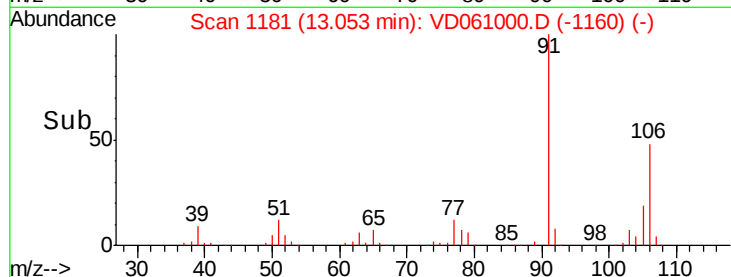
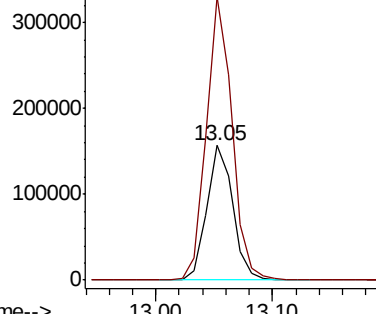
#69
o-Xylene
Concen: 20.421 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

Tot Ion:106 Resp: 243194
Ion Ratio Lower Upper
106 100
91 210.1 99.8 299.3

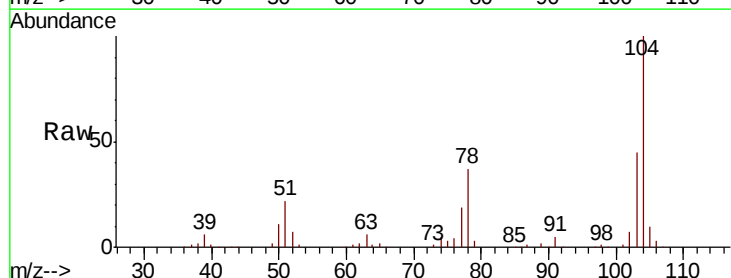


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

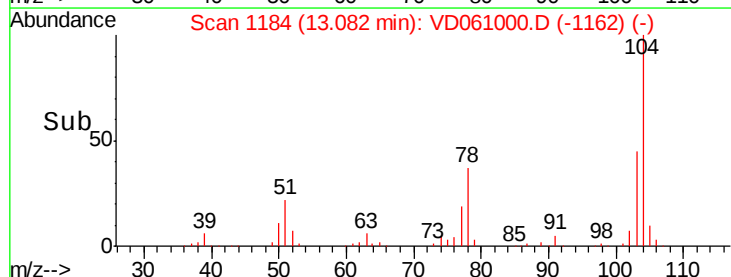
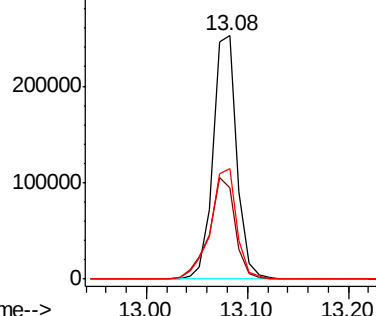


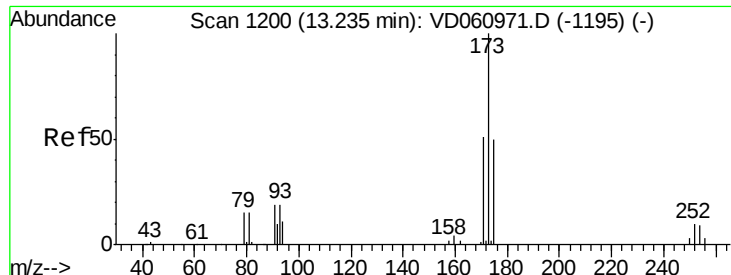
#70
Styrene
Concen: 21.308 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion:104 Resp: 414363
Ion Ratio Lower Upper
104 100
78 37.3 33.0 49.4
103 45.4 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: 20.565 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

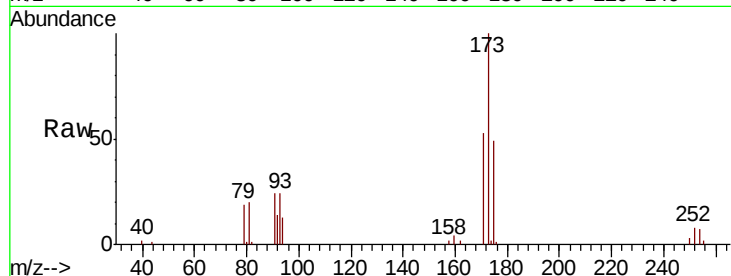
Tot Ion:173 Resp: 98046

Ion Ratio Lower Upper

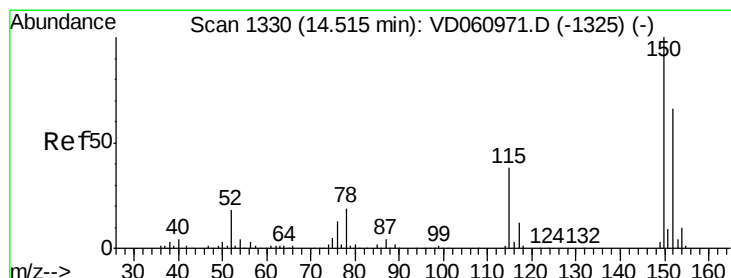
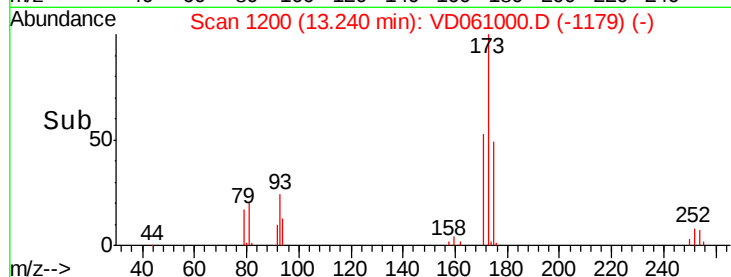
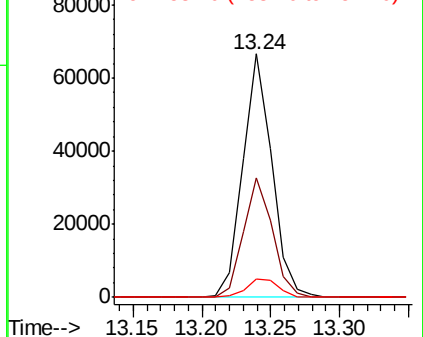
173 100

175 49.2 24.9 74.8

254 7.3 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: VD061000.D

Acq: 11 Mar 2019 13:08

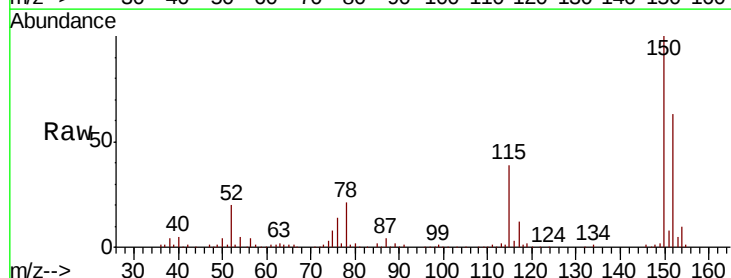
Tgt Ion:152 Resp: 496022

Ion Ratio Lower Upper

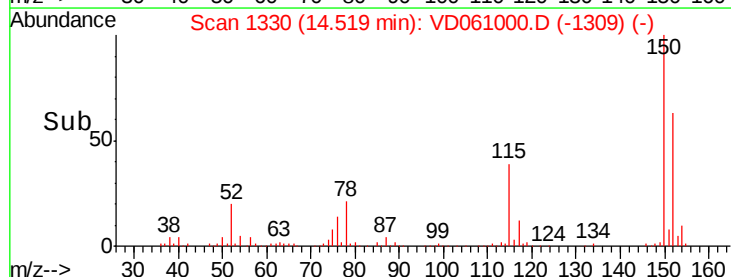
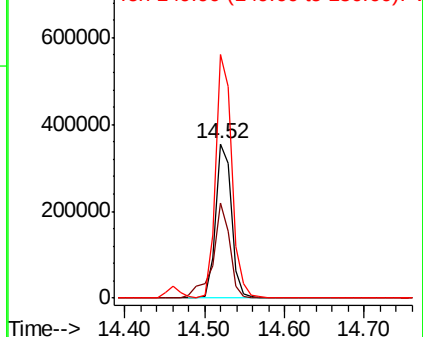
152 100

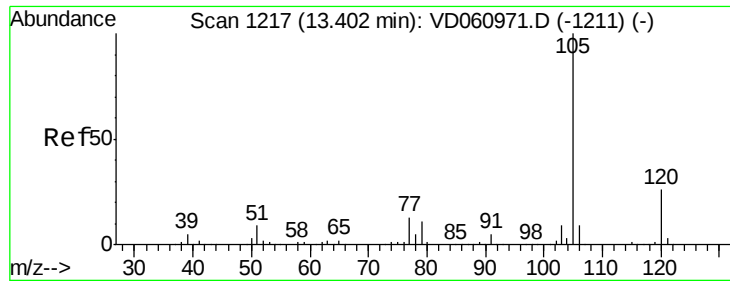
115 61.8 28.6 85.9

150 157.9 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: 18.677 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

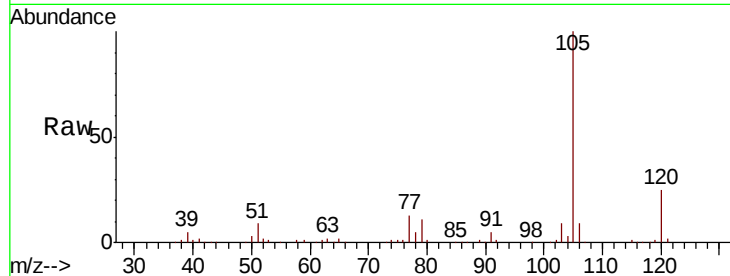
VD0311SBS01

Tot Ion:105 Resp: 667661

Ion Ratio Lower Upper

105 100

120 25.3 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

500000

400000

300000

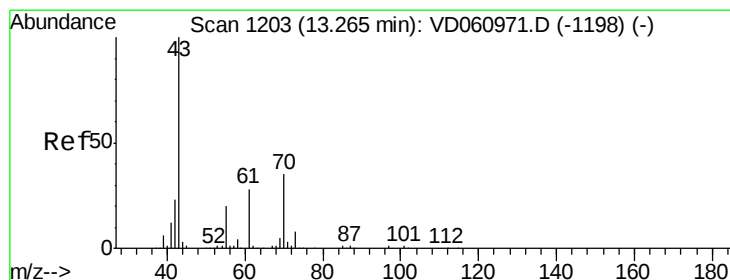
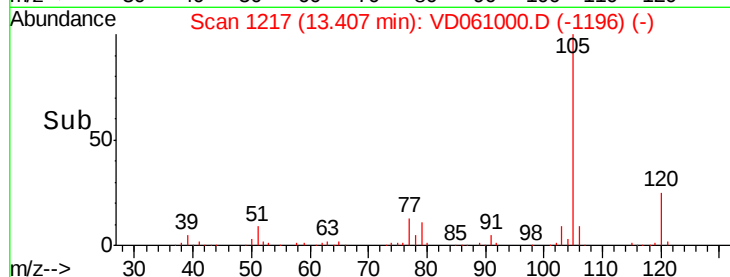
200000

100000

0

13.30 13.40 13.50

Time-->



#74

N-ethyl acetate

Concen: 17.180 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Tgt Ion: 43 Resp: 172929

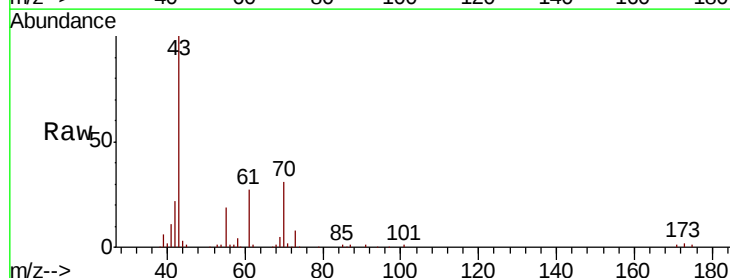
Ion Ratio Lower Upper

43 100

70 30.9 27.7 41.5

55 18.9 16.2 24.2

61 27.2 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

200000

150000

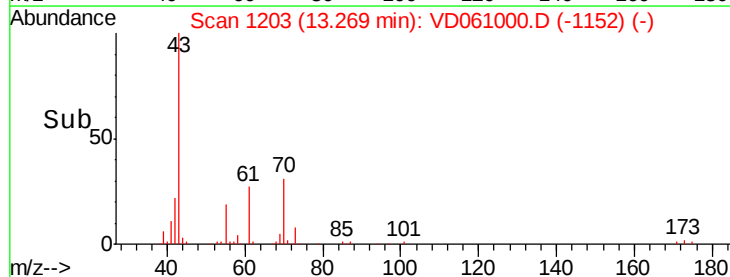
100000

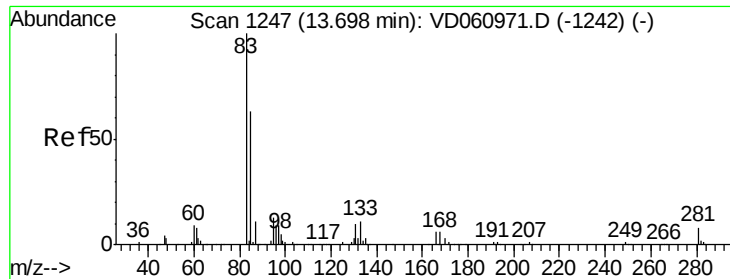
50000

0

13.20 13.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 18.374 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

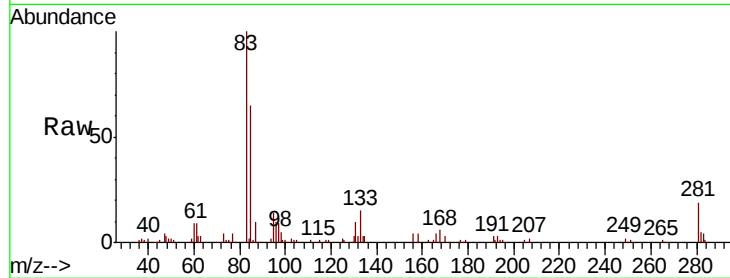
Tot Ion: 83 Resp: 128152

Ion Ratio Lower Upper

83 100

131 10.0 5.1 15.3

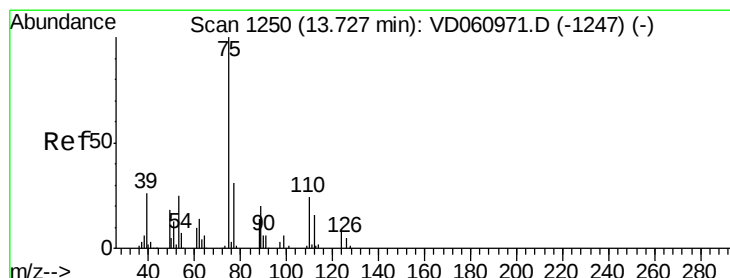
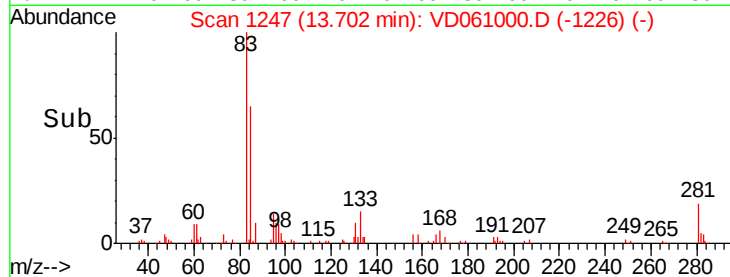
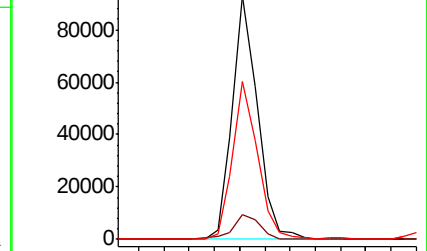
85 65.0 31.5 94.5



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: 18.906 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD061000.D

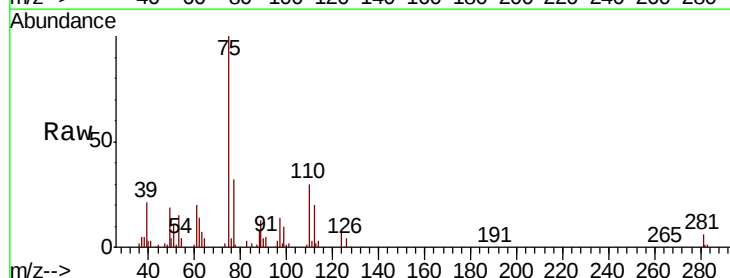
Acq: 11 Mar 2019 13:08

Tgt Ion: 75 Resp: 134913

Ion Ratio Lower Upper

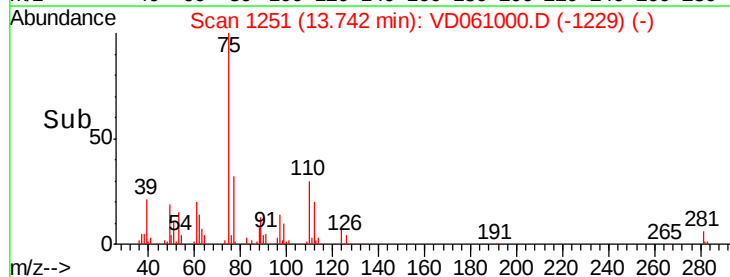
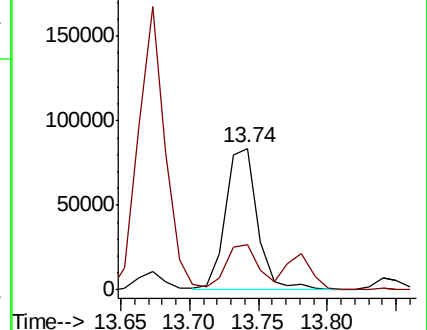
75 100

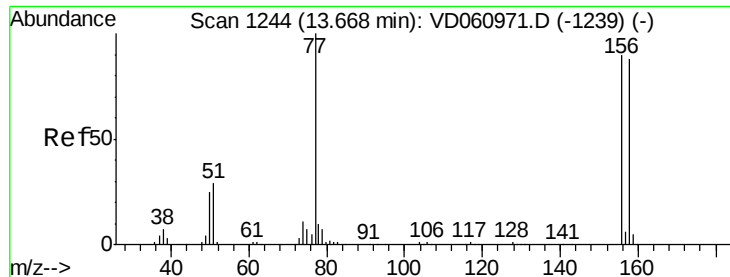
77 32.1 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.588 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

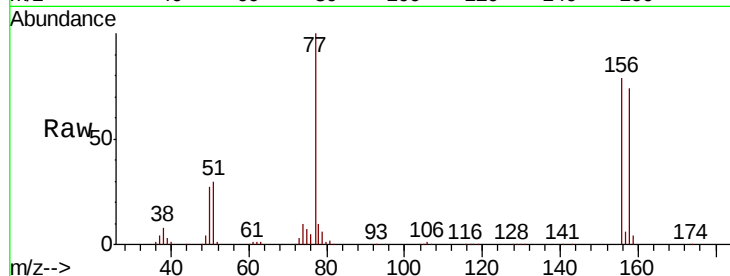
Tot Ion:156 Resp: 178748

Ion Ratio Lower Upper

156 100

77 127.1 55.5 166.7

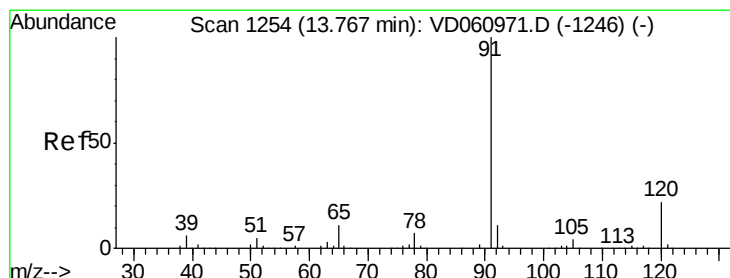
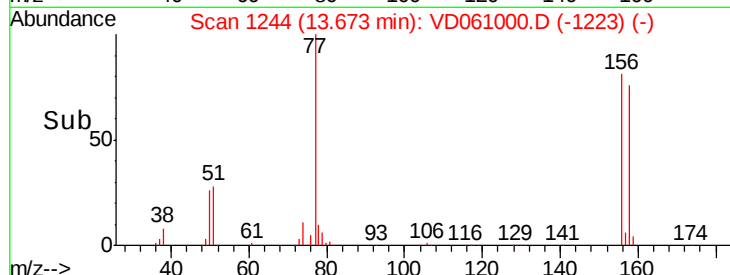
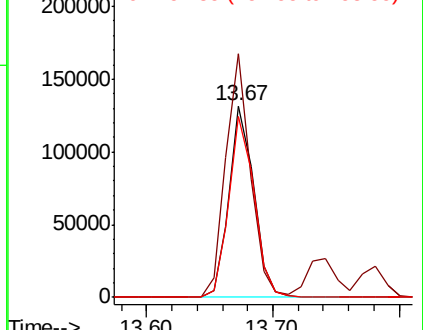
158 94.5 49.0 147.0



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: 19.465 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061000.D

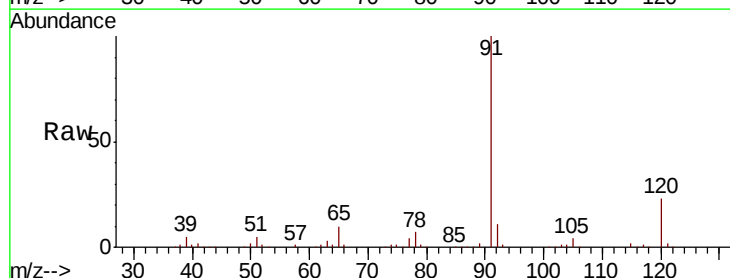
Acq: 11 Mar 2019 13:08

Tgt Ion: 91 Resp: 814603

Ion Ratio Lower Upper

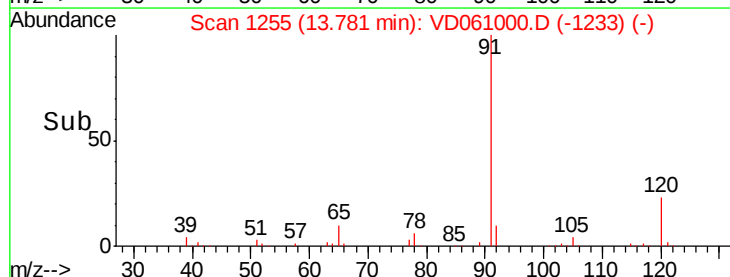
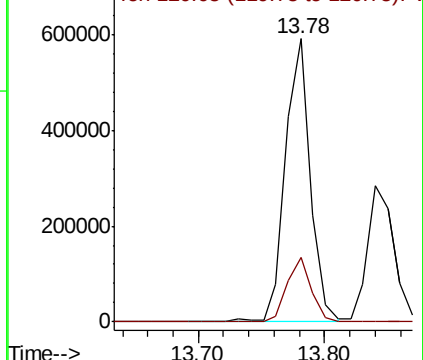
91 100

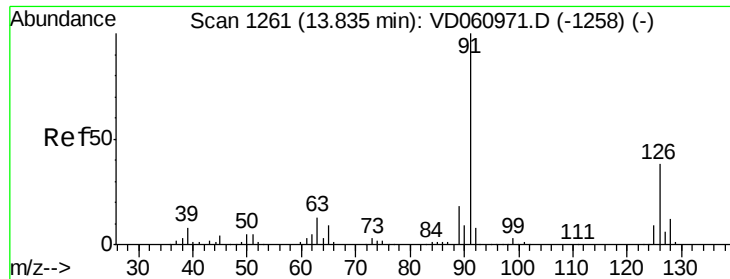
120 22.7 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

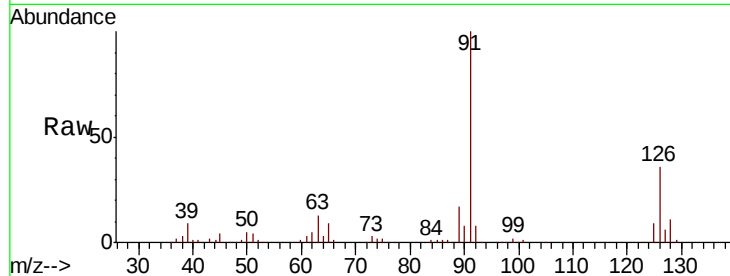




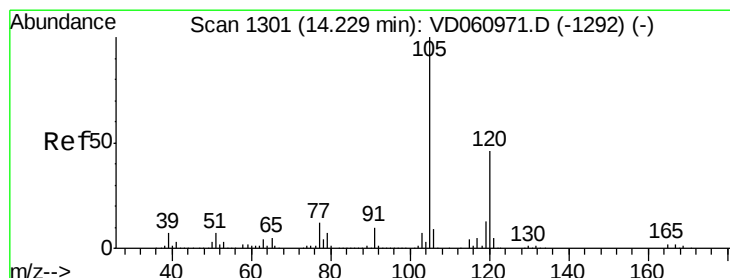
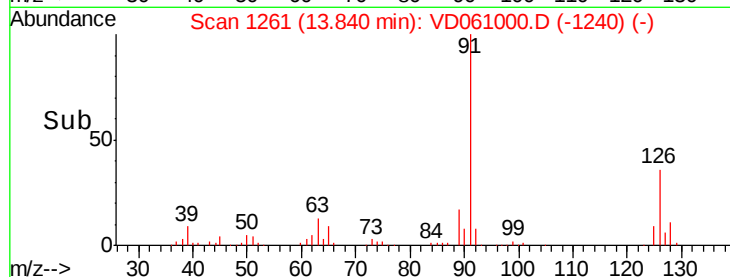
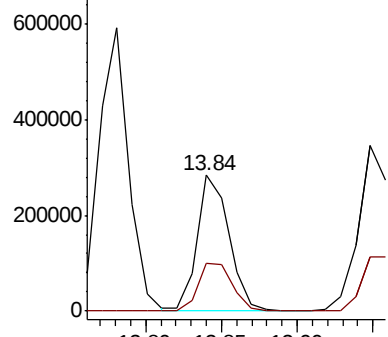
#79
2-Chlorotoluene
Concen: 18.024 ug/l
RT: 13.84 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

Tot Ion: 91 Resp: 415262
Ion Ratio Lower Upper
91 100
126 35.7 18.6 55.6

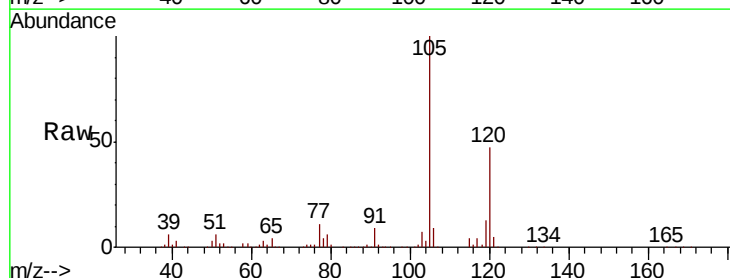


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.95 (125.65 to 126.65): V

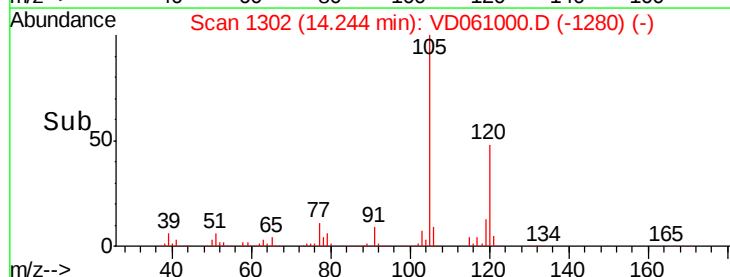
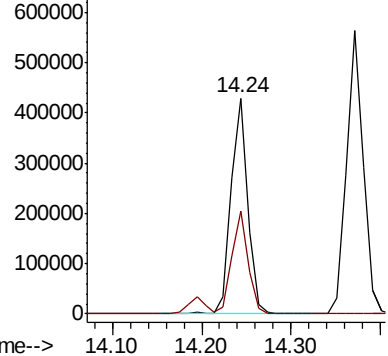


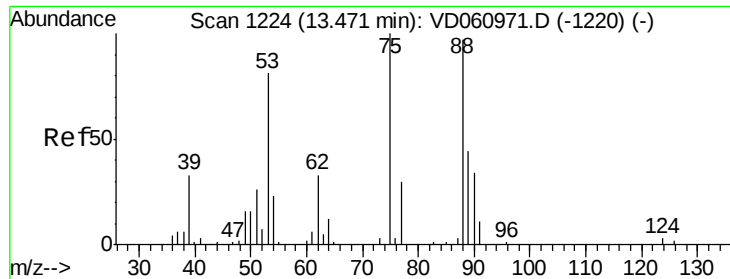
#80
1,3,5-Trimethylbenzene
Concen: 20.188 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion: 105 Resp: 547871
Ion Ratio Lower Upper
105 100
120 47.5 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.387 ug/l

RT: 13.48 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

VD0311SBS01

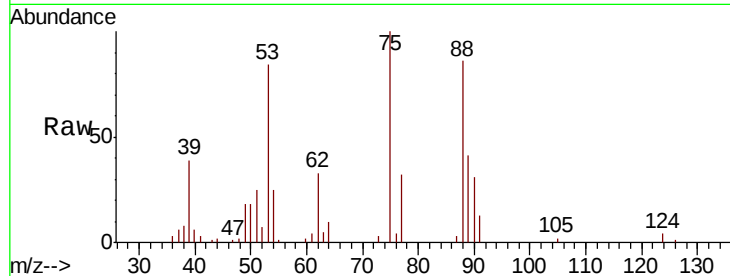
Tot Ion: 75 Resp: 40789

Ion Ratio Lower Upper

75 100

53 84.4 64.4 96.6

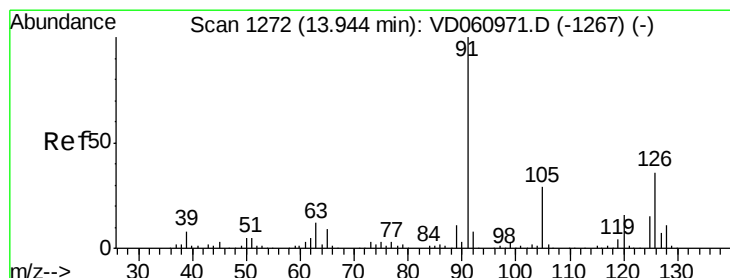
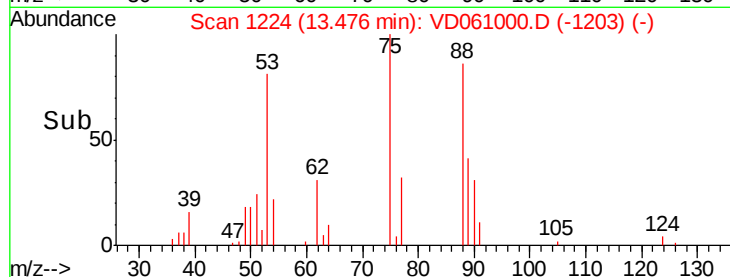
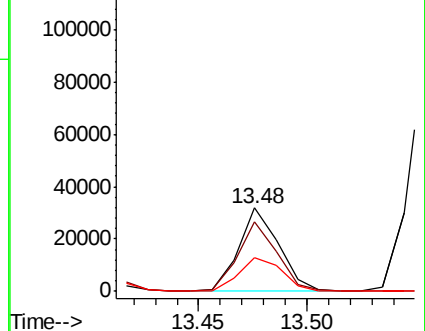
89 41.1 34.8 52.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 18.763 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD061000.D

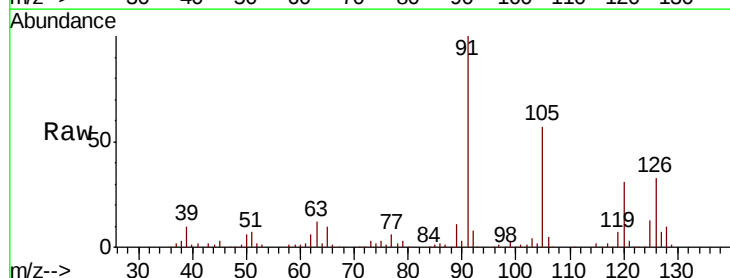
Acq: 11 Mar 2019 13:08

Tgt Ion: 91 Resp: 511056

Ion Ratio Lower Upper

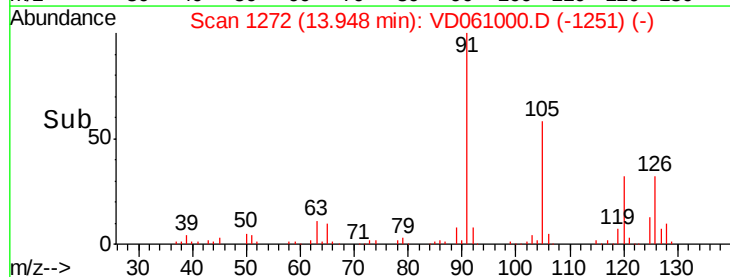
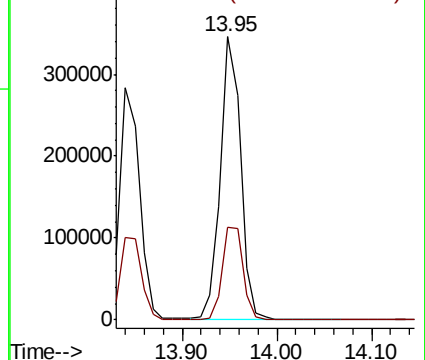
91 100

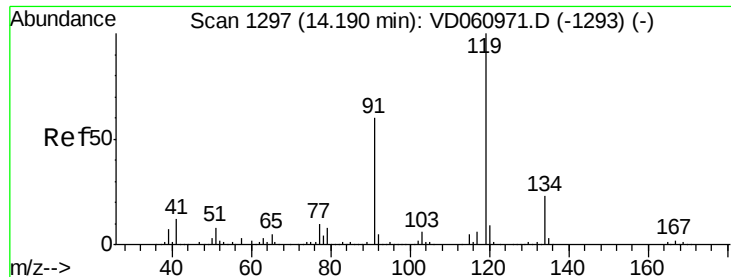
126 33.0 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

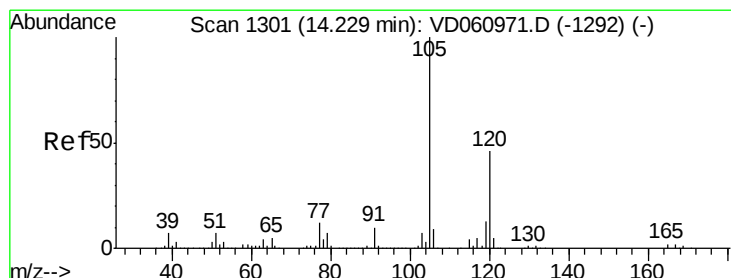
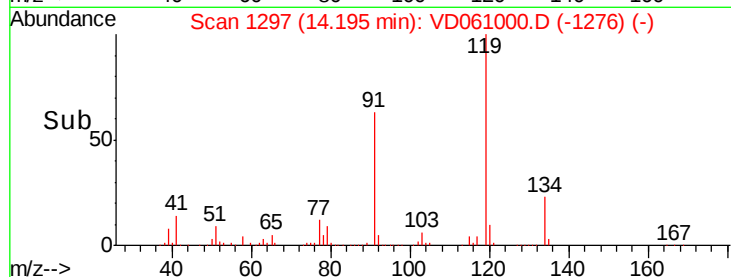
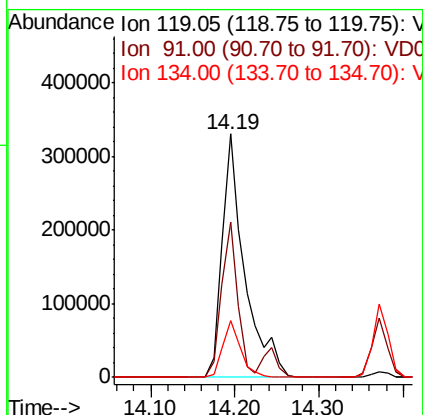
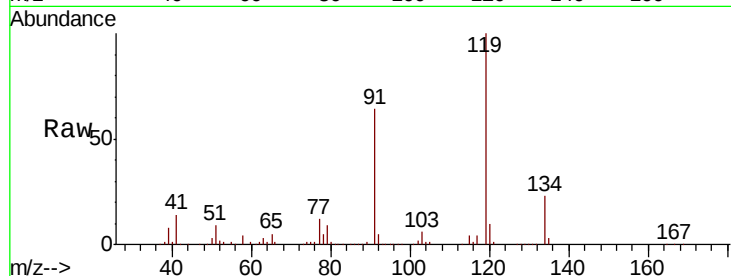




#83
tert-Butylbenzene
Concen: 20.728 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

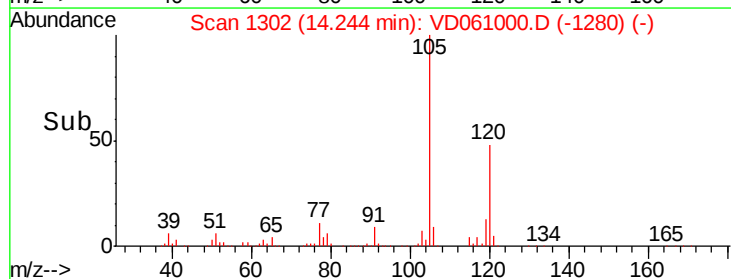
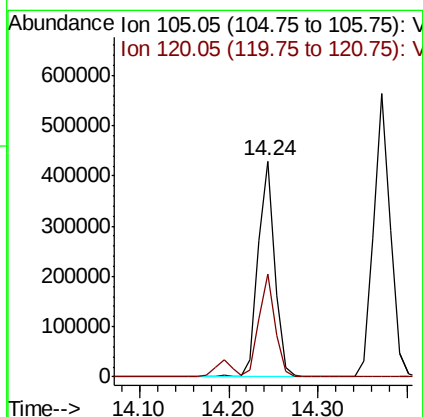
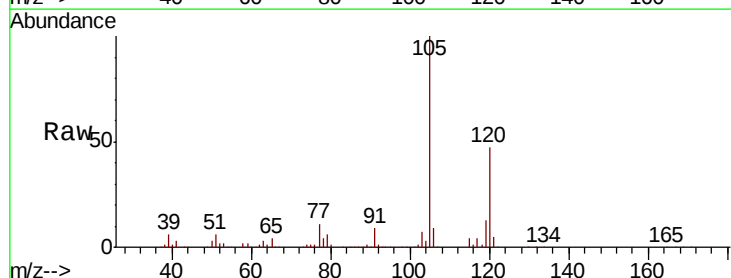
Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

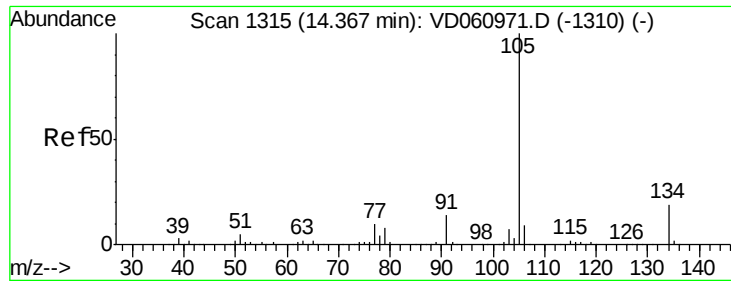
Tot Ion:119 Resp: 615615
Ion Ratio Lower Upper
119 100
91 63.9 30.1 90.3
134 23.1 11.6 34.7



#84
1,2,4-Trimethylbenzene
Concen: 20.188 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion:105 Resp: 547871
Ion Ratio Lower Upper
105 100
120 47.5 22.9 68.5

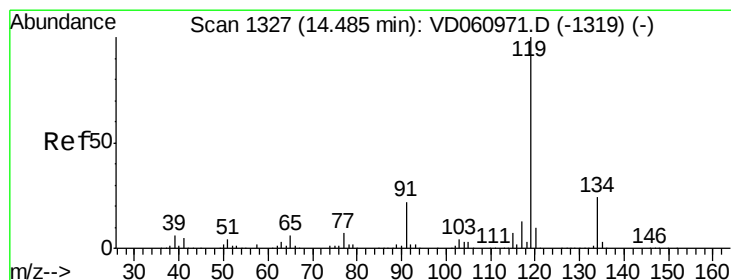
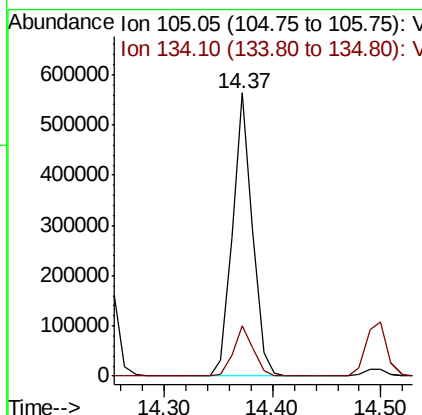
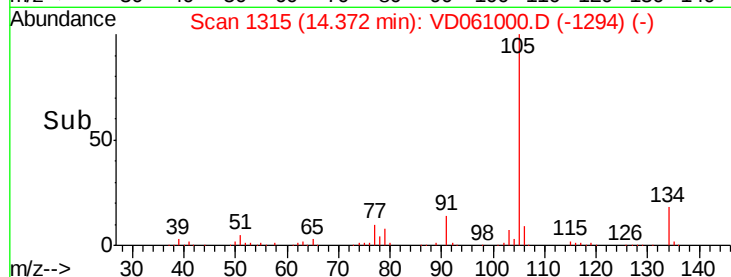
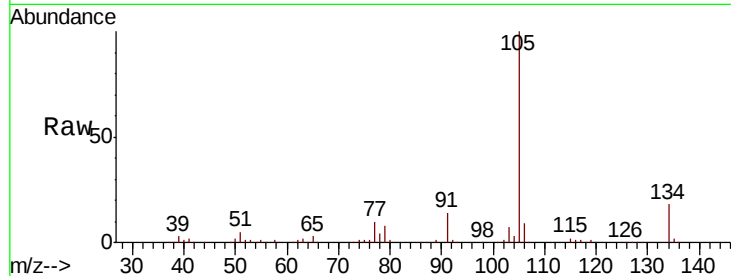




#85
 sec-Butylbenzene
 Concen: 19.916 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

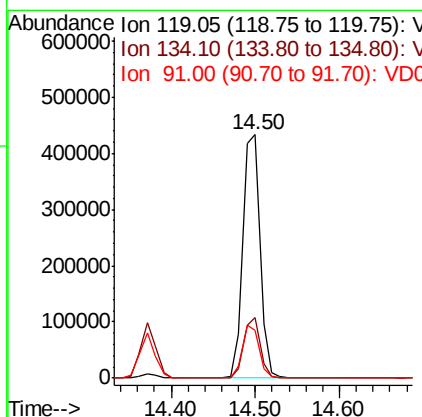
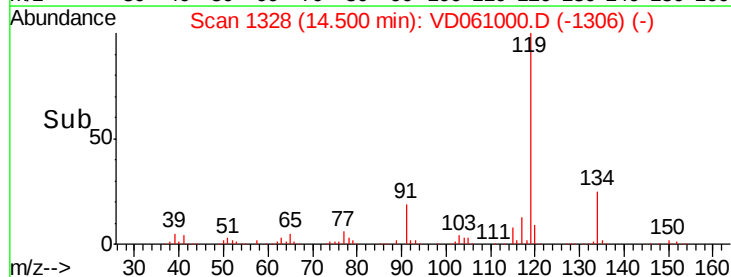
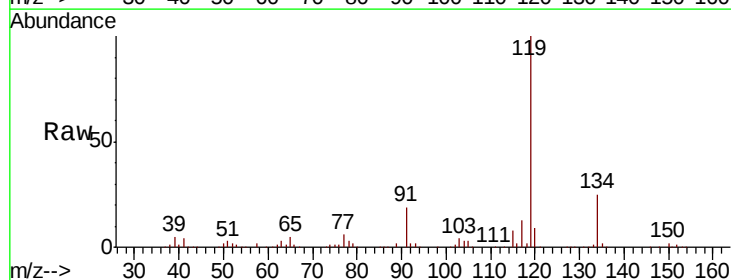
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

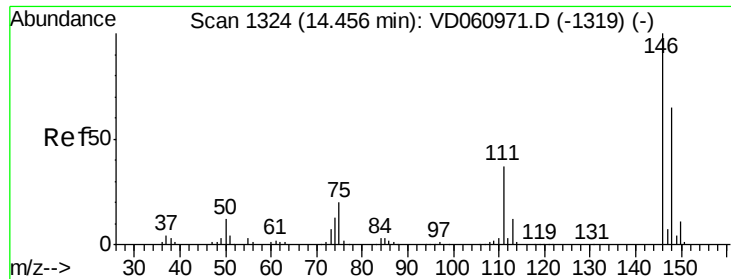
Tot Ion:105 Resp: 722097
 Ion Ratio Lower Upper
 105 100
 134 17.6 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 20.888 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion:119 Resp: 619052
 Ion Ratio Lower Upper
 119 100
 134 24.7 12.0 36.1
 91 19.4 11.2 33.6

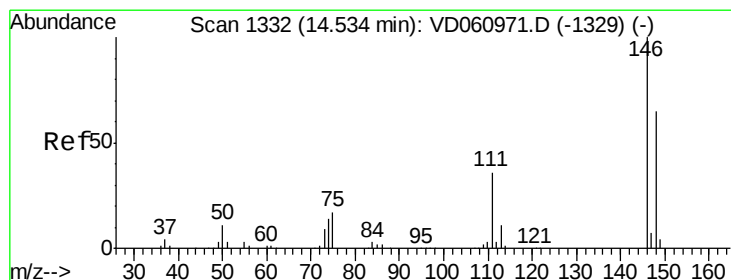
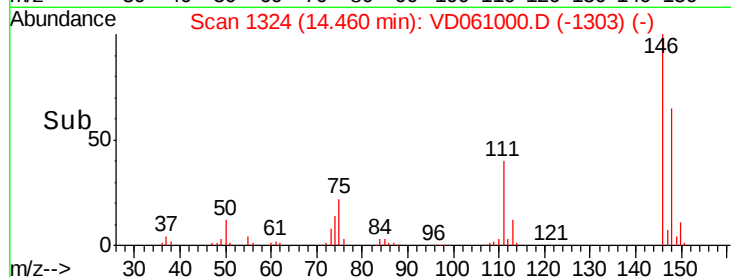
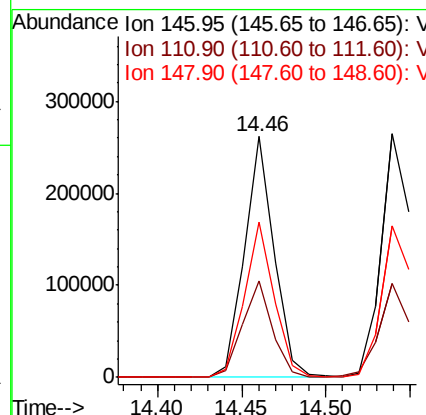
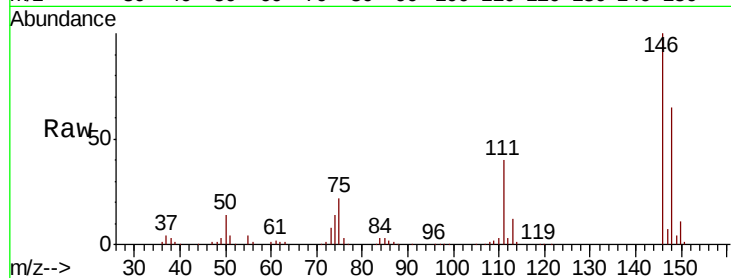




#87
 1,3-Dichlorobenzene
 Concen: 19.645 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

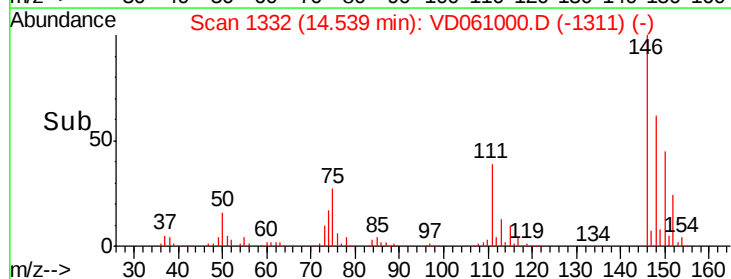
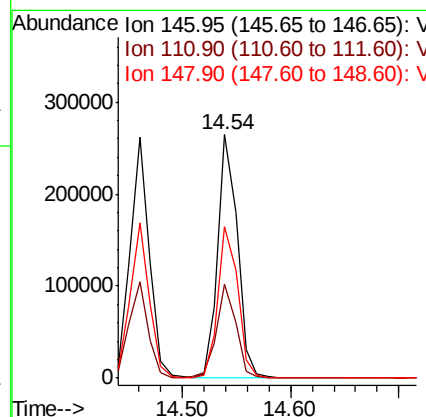
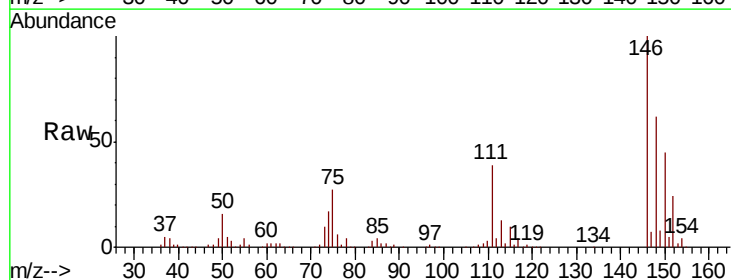
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

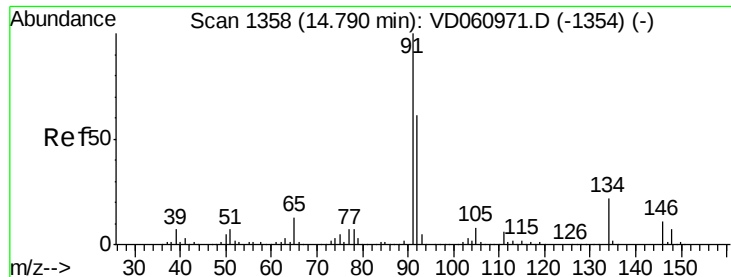
Tot Ion:146 Resp: 320103
 Ion Ratio Lower Upper
 146 100
 111 39.8 18.4 55.4
 148 64.7 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 20.926 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion:146 Resp: 335068
 Ion Ratio Lower Upper
 146 100
 111 38.8 18.4 55.2
 148 62.1 32.5 97.5





#89

n-Butylbenzene

Concen: 18.422 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD061000.D

Acq: 11 Mar 2019 13:08

Instrument :

MSVOA_D

ClientSampleID :

VD0311SBS01

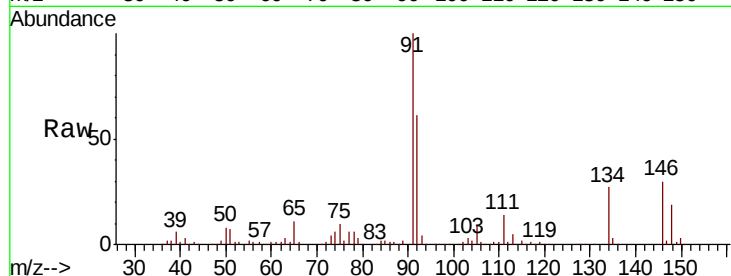
Tot Ion: 91 Resp: 524304

Ion Ratio Lower Upper

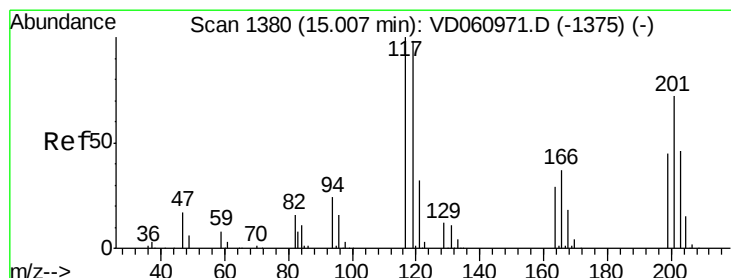
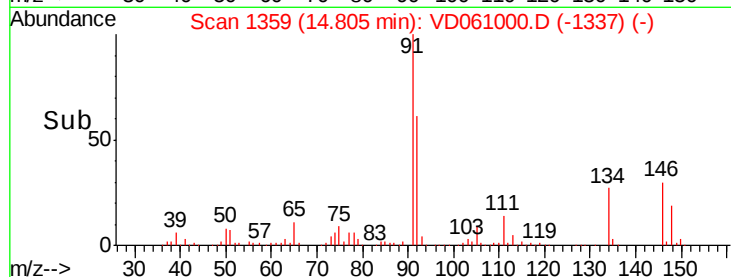
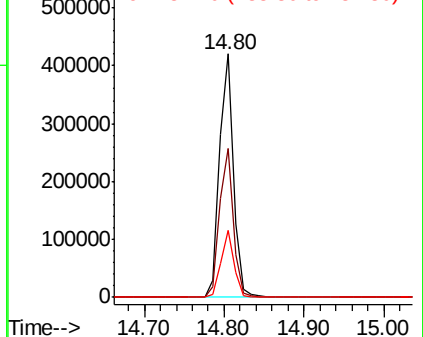
91 100

92 61.1 30.6 91.8

134 27.4 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 18.678 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD061000.D

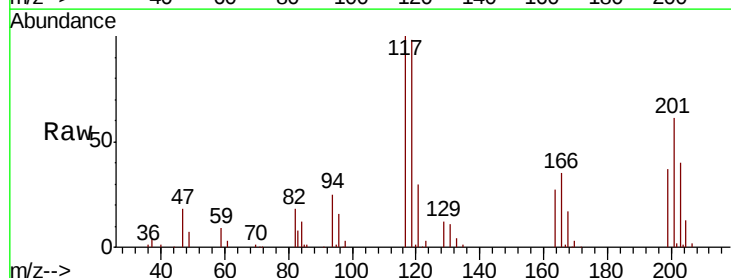
Acq: 11 Mar 2019 13:08

Tgt Ion: 117 Resp: 156305

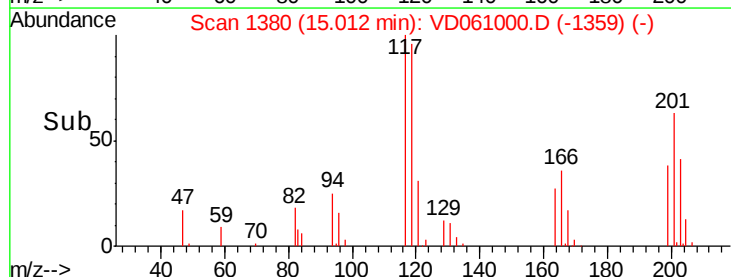
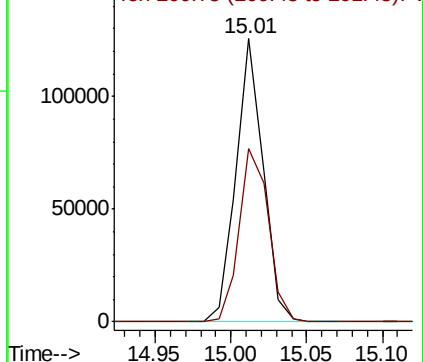
Ion Ratio Lower Upper

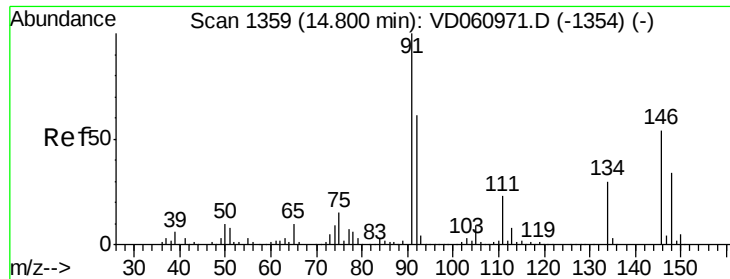
117 100

201 61.4 36.2 108.6



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

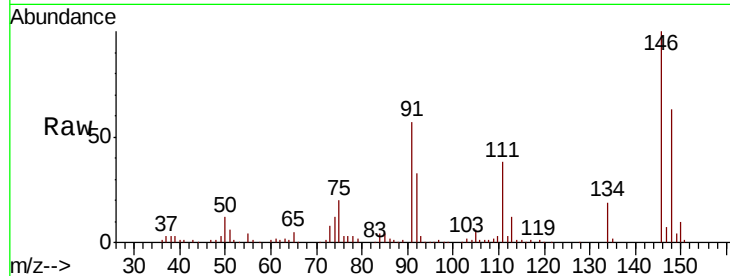




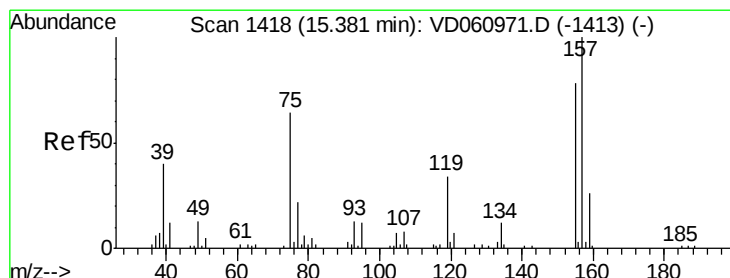
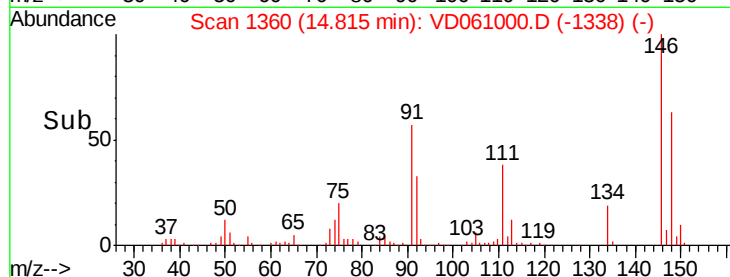
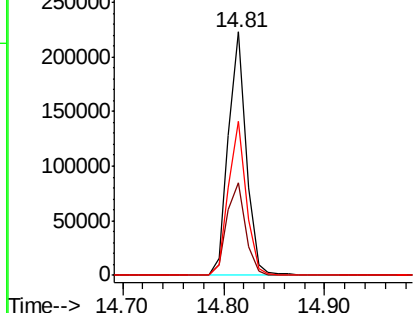
#91
 1,2-Dichlorobenzene
 Concen: 20.211 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

Tot Ion:146 Resp: 274540
 Ion Ratio Lower Upper
 146 100
 111 38.0 21.5 64.5
 148 63.1 30.9 92.8

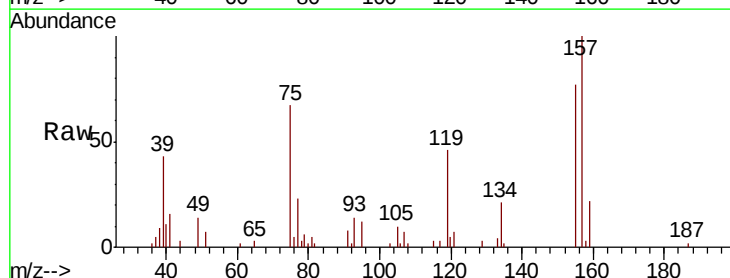


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

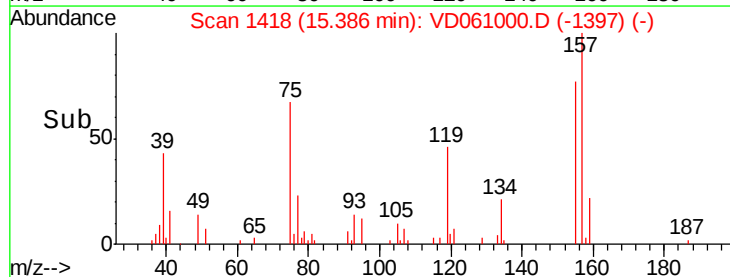
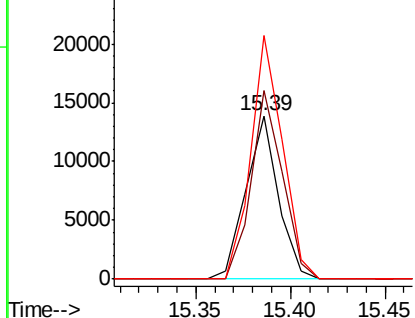


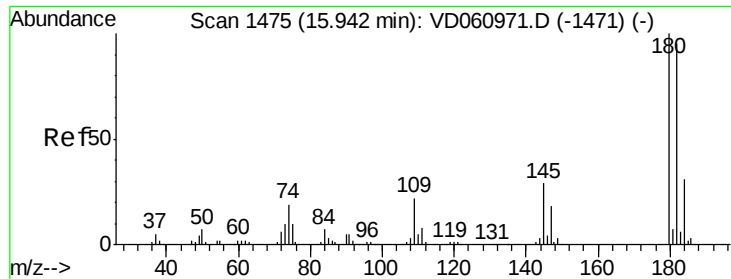
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.519 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion: 75 Resp: 16405
 Ion Ratio Lower Upper
 75 100
 155 115.2 61.2 183.5
 157 149.0 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

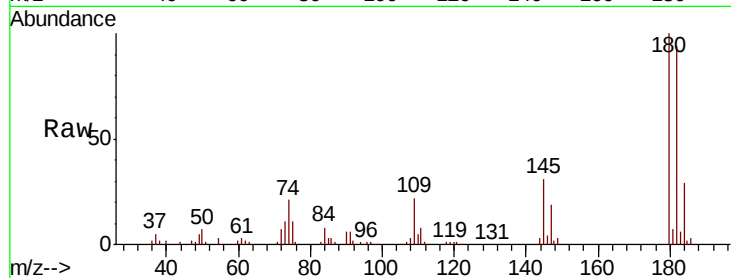




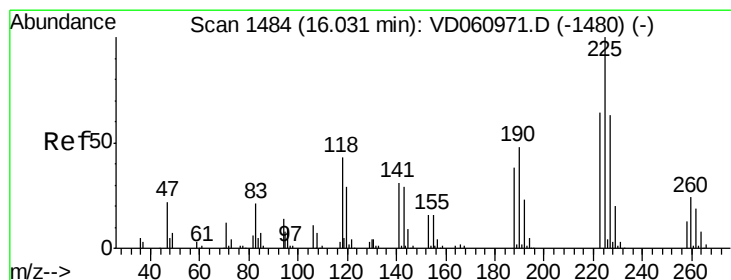
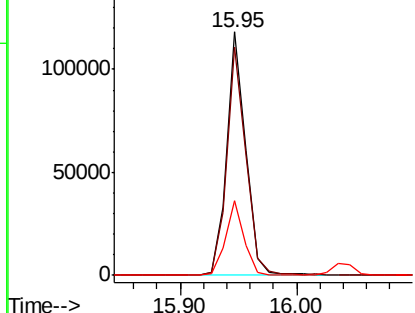
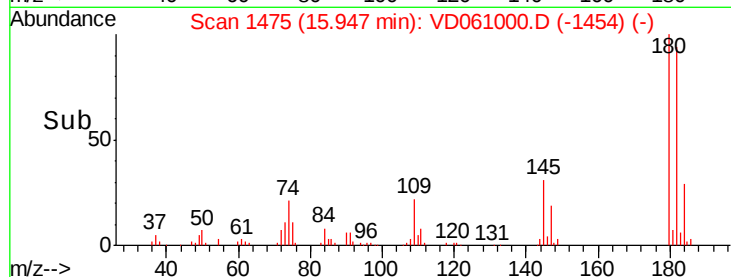
#93
 1,2,4-Trichlorobenzene
 Concen: 21.118 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0311SBS01

Tot Ion:180 Resp: 133075
 Ion Ratio Lower Upper
 180 100
 182 93.5 47.3 142.0
 145 30.7 14.4 43.0

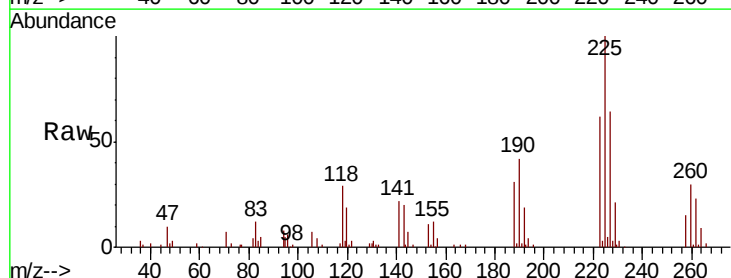


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

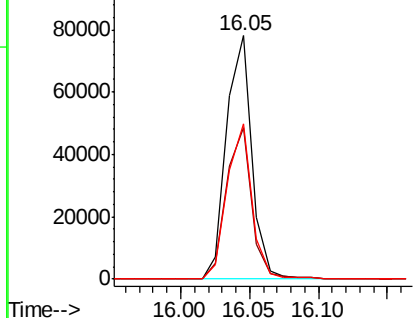
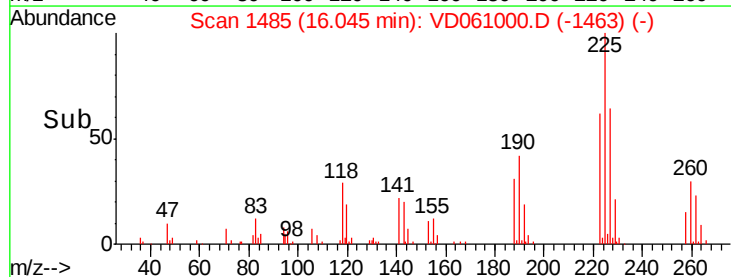


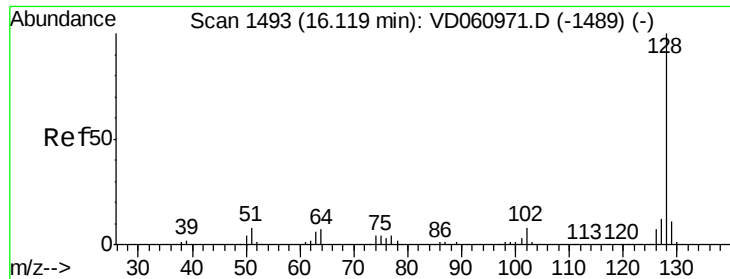
#94
 Hexachlorobutadiene
 Concen: 20.943 ug/l
 RT: 16.05 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061000.D
 Acq: 11 Mar 2019 13:08

Tgt Ion:225 Resp: 99822
 Ion Ratio Lower Upper
 225 100
 223 62.2 31.8 95.3
 227 64.0 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

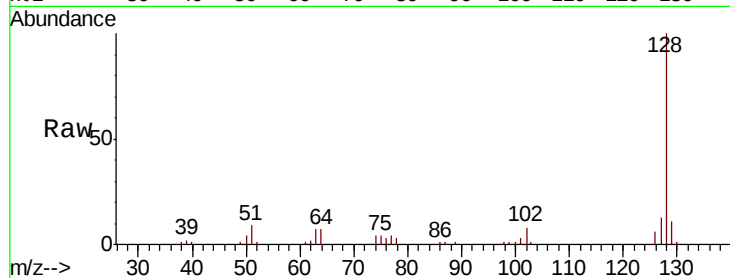




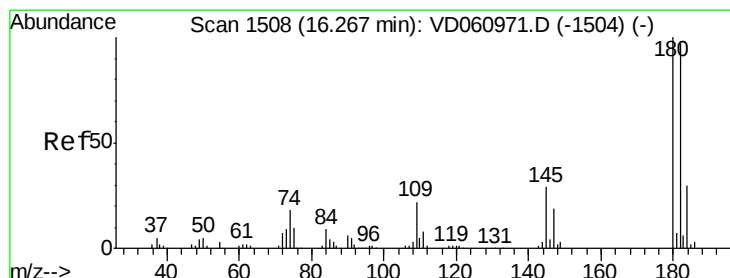
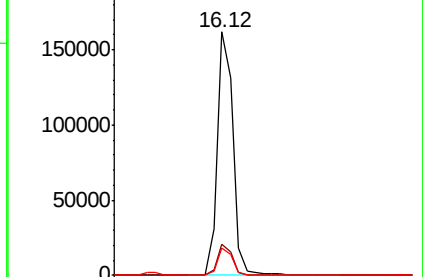
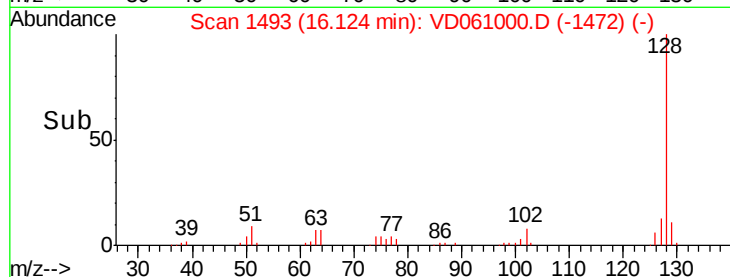
#95
Naphthalene
Concen: 21.733 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :
VD0311SBS01

Tot Ion:128 Resp: 208117
Ion Ratio Lower Upper
128 100
127 12.9 9.8 14.8
129 11.4 8.5 12.7

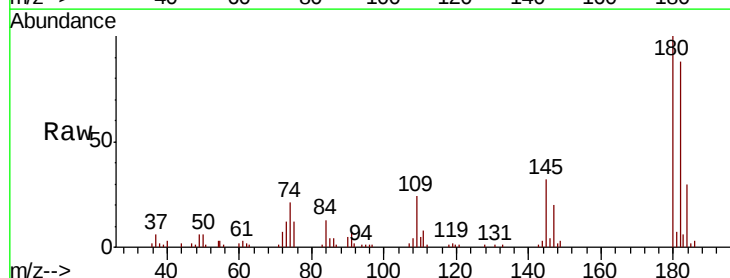


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 21.586 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD061000.D
Acq: 11 Mar 2019 13:08

Tgt Ion:180 Resp: 67183
Ion Ratio Lower Upper
180 100
182 88.4 48.6 145.8
145 31.6 14.3 42.9



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

