

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\
 Data File : VD062670.D
 Acq On : 12 Jun 2019 13:22
 Operator : VA/AP
 Sample : K3274-01RE
 Misc : 4.52g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 13 07:23:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	579654	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	780986	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	506115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	188123	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	328107	39.23	ug/l	-0.01
Spiked Amount			Recovery	=	78.46%	
35) Dibromofluoromethane	6.91	113	340032	41.28	ug/l	0.00
Spiked Amount			Recovery	=	82.56%	
50) Toluene-d8	10.40	98	575186	33.20	ug/l	-0.01
Spiked Amount			Recovery	=	66.40%	
62) 4-Bromofluorobenzene	13.55	95	200936	24.86	ug/l	0.00
Spiked Amount			Recovery	=	49.72%	

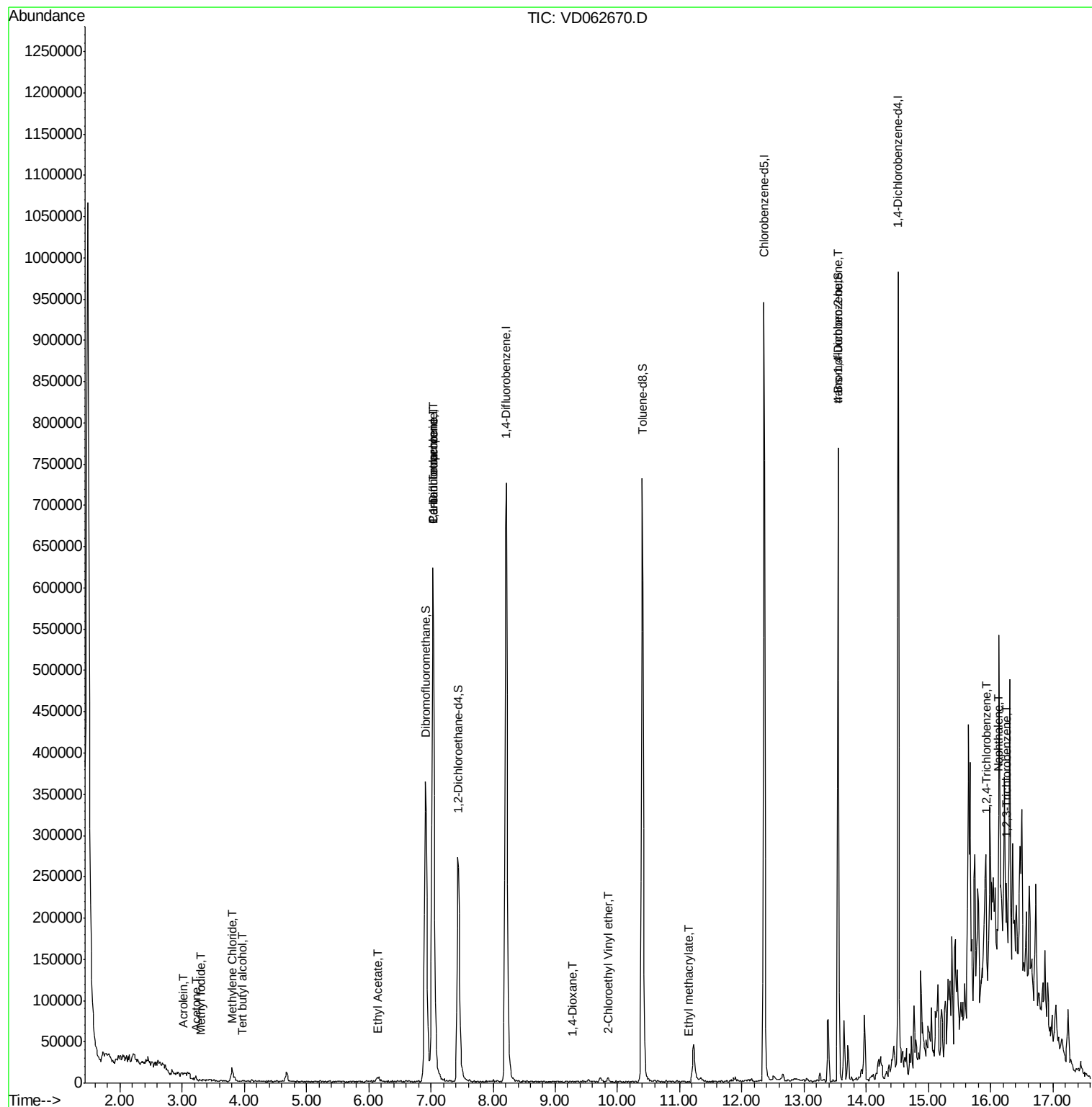
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	1286	Below Cal	#	42
10) Methyl Iodide	3.30	142	453	4.049	ug/l #	2
11) Tert butyl alcohol	3.98	59	511	1.486	ug/l #	61
13) Acrolein	3.02	56	278	2.514	ug/l #	70
16) Acetone	3.22	43	6259	4.086	ug/l	99
20) Methylene Chloride	3.80	84	9755	1.255	ug/l #	90
36) 1,1-Dichloropropene	7.03	75	46878	5.245	ug/l #	54
37) Ethyl Acetate	6.14	43	880	1.426	ug/l #	74
38) Carbon Tetrachloride	7.03	117	61091	4.324	ug/l #	18
49) 1,4-Dioxane	9.29	88	249	55.050	ug/l #	21
56) Ethyl methacrylate	11.15	69	312	3.999	ug/l #	12
58) 2-Chloroethyl Vinyl ether	9.85	63	2795	1.300	ug/l #	49
81) trans-1,4-Dichloro-2-buten	13.55	75	101924	128.140	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	2949	4.134	ug/l #	1
95) Naphthalene	16.12	128	11732	5.050	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	5934	1.805	ug/l #	1

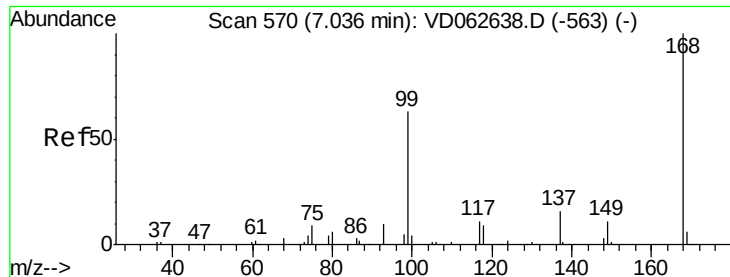
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

Instrument :

MSVOA_D

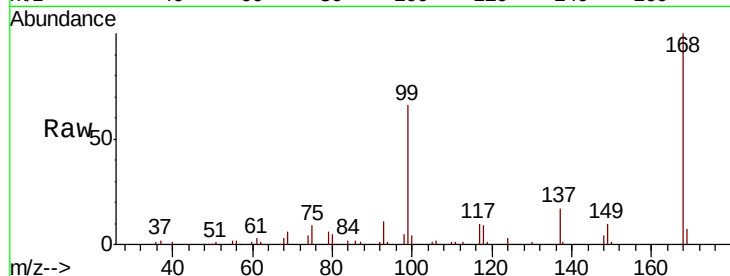
ClientSampleId :

Tot Ion:168 Resp: 579654

Ion Ratio Lower Upper

168 100

99 66.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

150000

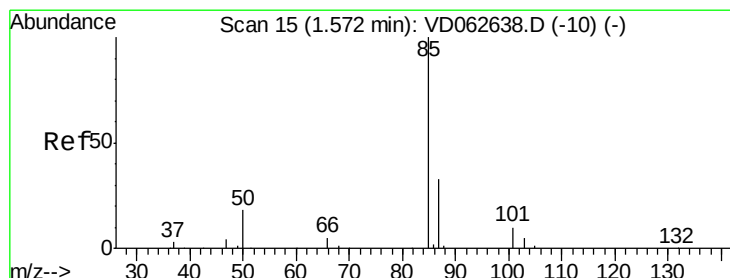
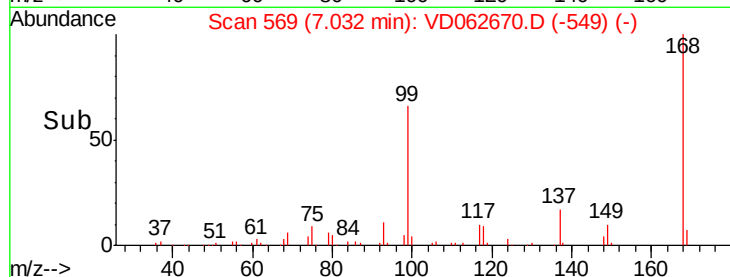
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 14

Delta R.T. -0.00 min

Lab File: VD062670.D

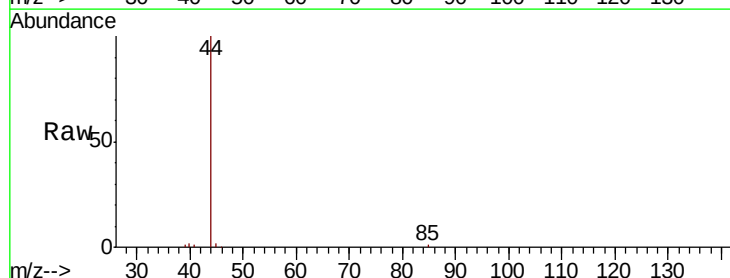
Acq: 12 Jun 2019 13:22

Tgt Ion: 85 Resp: 1286

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1200

1000

800

600

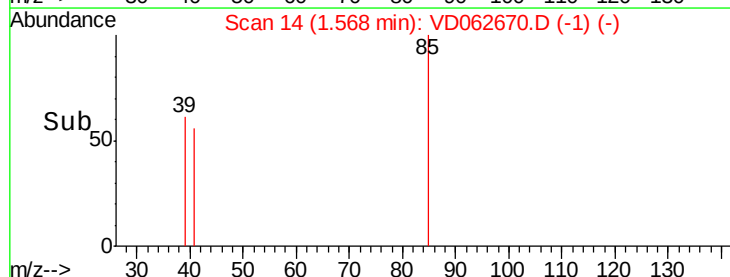
400

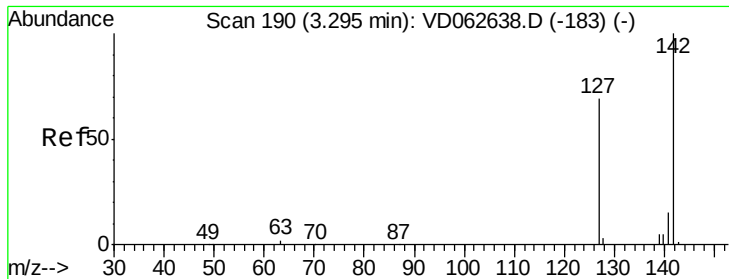
200

0

1.55 1.60

Time-->

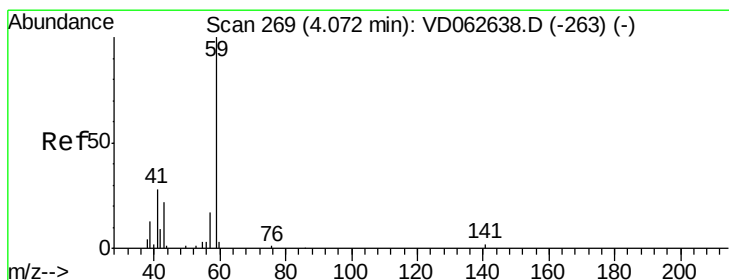
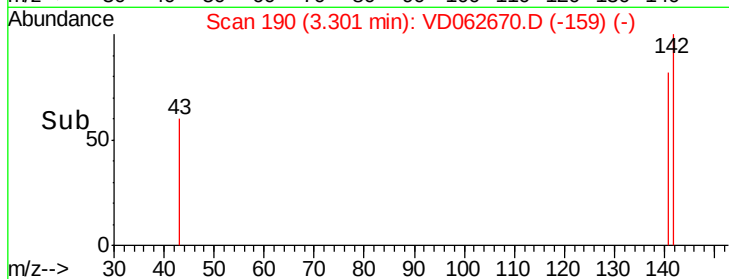
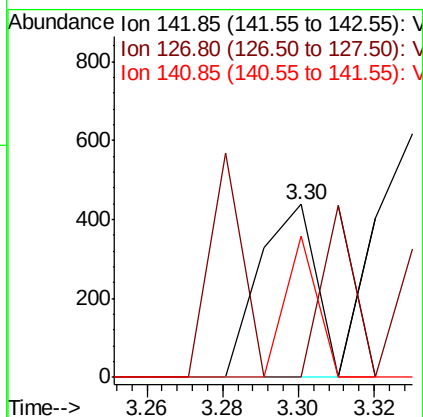
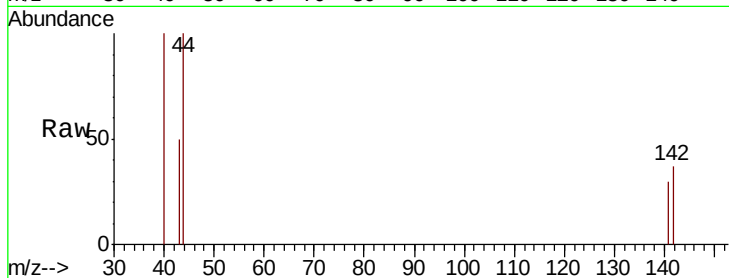




#10
Methyl Iodide
Concen: 4.049 ug/l
RT: 3.30 min Scan# 190
Delta R.T. 0.01 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

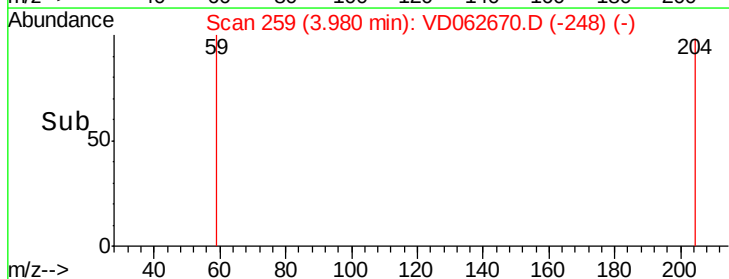
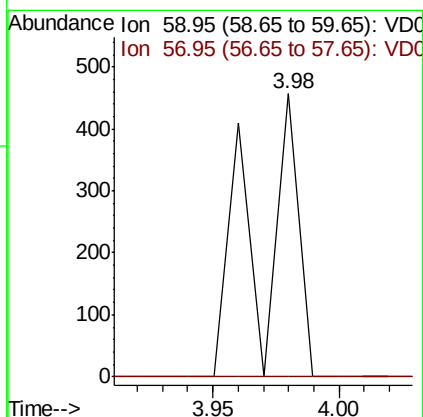
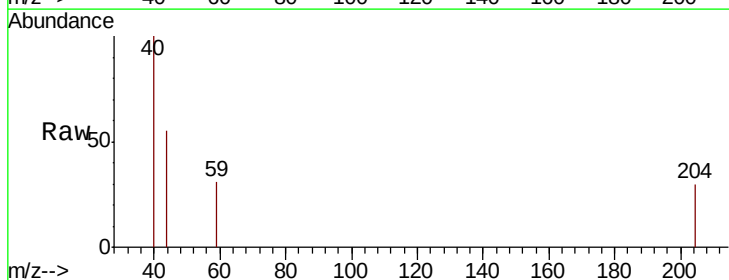
Instrument :
MSVOA_D
ClientSampled :

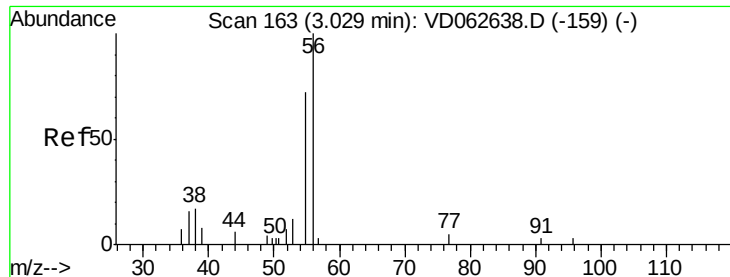
Tot Ion:142 Resp: 453
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 82.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 1.486 ug/l
RT: 3.98 min Scan# 259
Delta R.T. -0.09 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Tgt Ion: 59 Resp: 511
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 2.514 ug/l

RT: 3.02 min Scan# 161

Delta R.T. -0.01 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

Instrument :

MSVOA_D

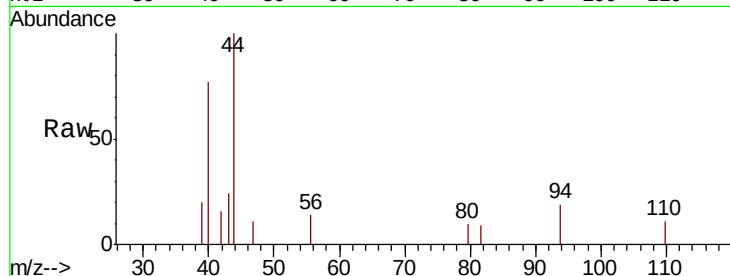
ClientSampleId :

Tot Ion: 56 Resp: 278

Ion Ratio Lower Upper

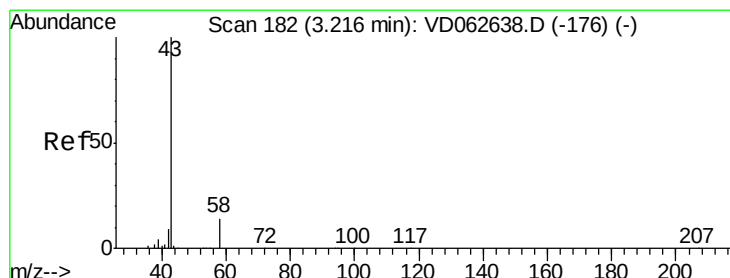
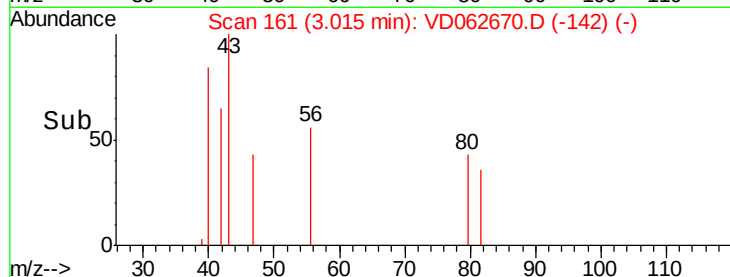
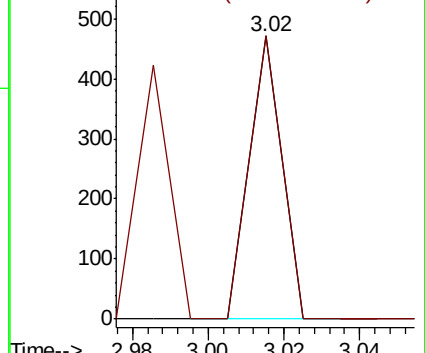
56 100

55 100.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 4.086 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD062670.D

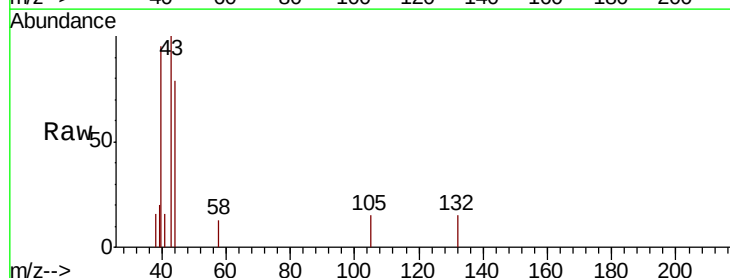
Acq: 12 Jun 2019 13:22

Tgt Ion: 43 Resp: 6259

Ion Ratio Lower Upper

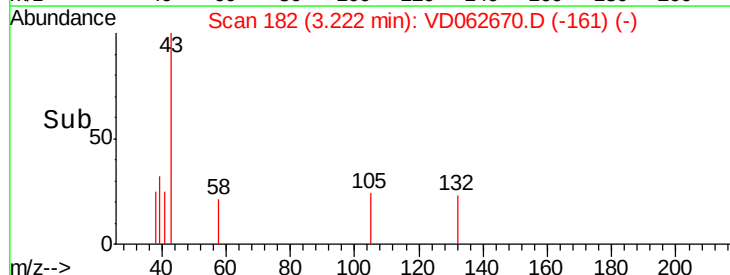
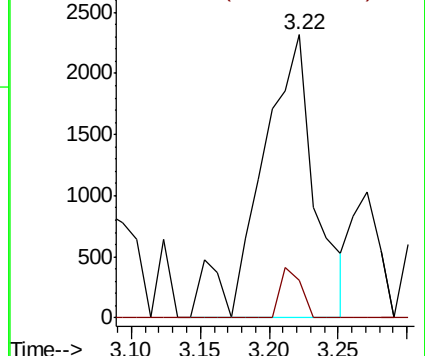
43 100

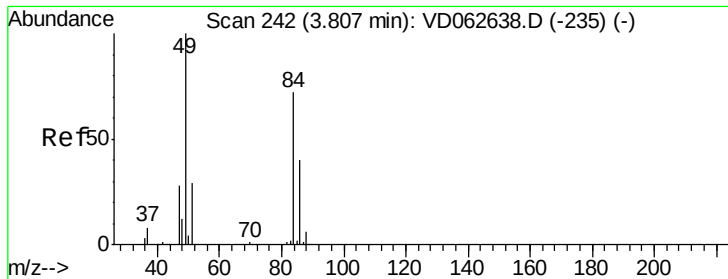
58 13.2 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

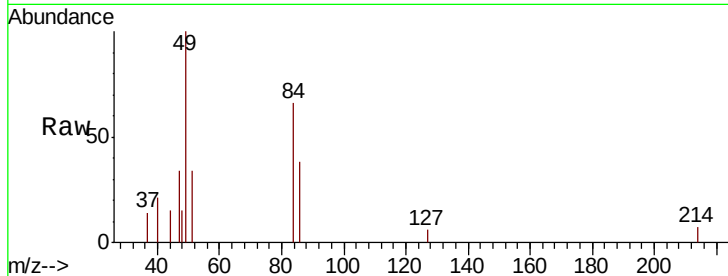




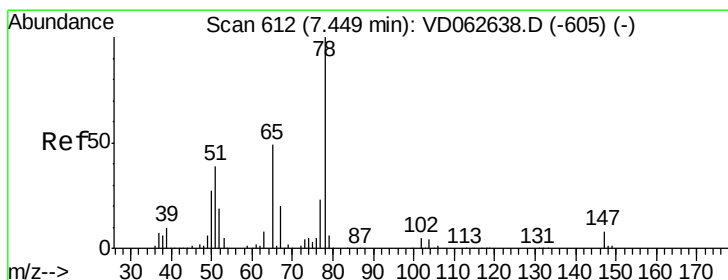
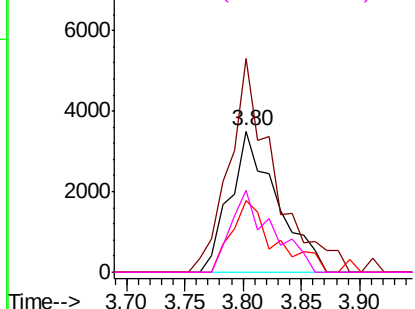
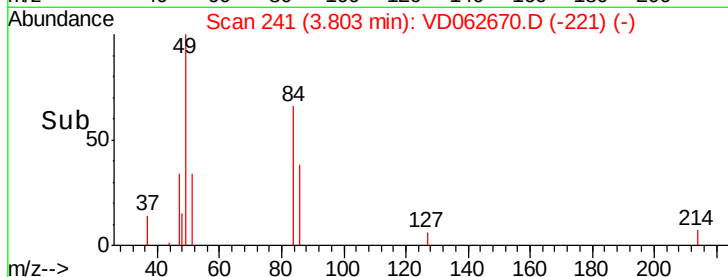
#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 9755
Ion Ratio Lower Upper
84 100
49 151.1 111.2 166.8
51 50.8 31.9 47.9#
86 58.0 44.7 67.1

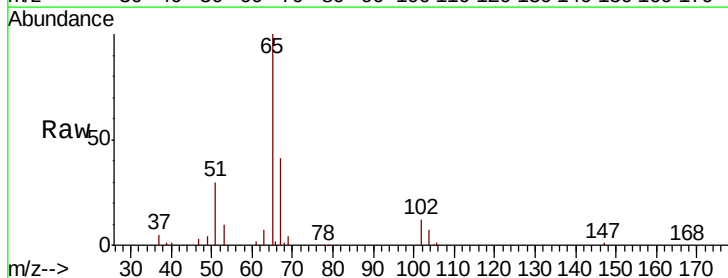


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

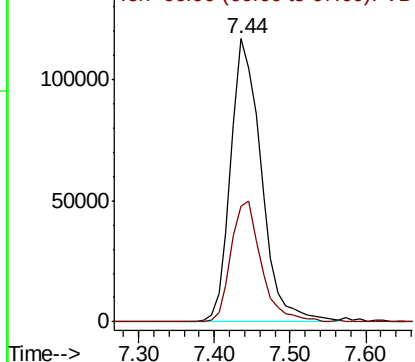
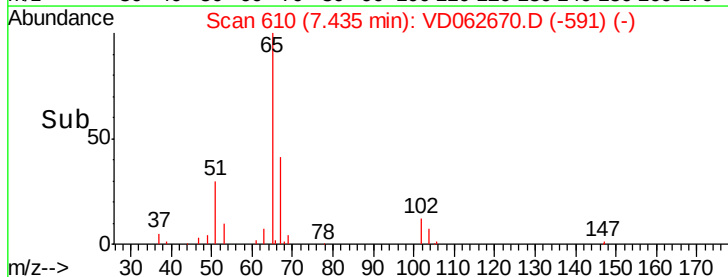


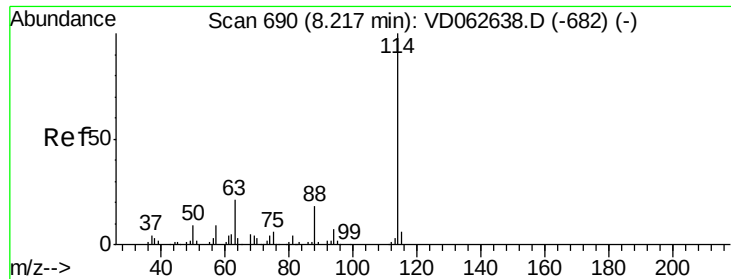
#33
1,2-Dichloroethane-d4
Concen: 39.227 ug/l
RT: 7.44 min Scan# 610
Delta R.T. -0.01 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Tgt Ion: 65 Resp: 328107
Ion Ratio Lower Upper
65 100
67 41.0 0.0 81.8



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: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

Instrument :

MSVOA_D

ClientSampleId :

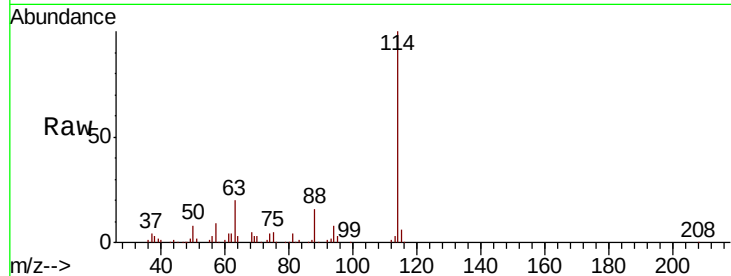
Tot Ion:114 Resp: 780986

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

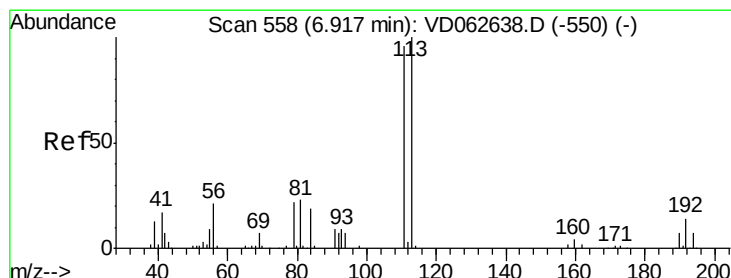
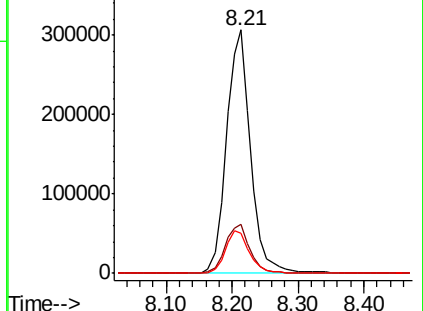
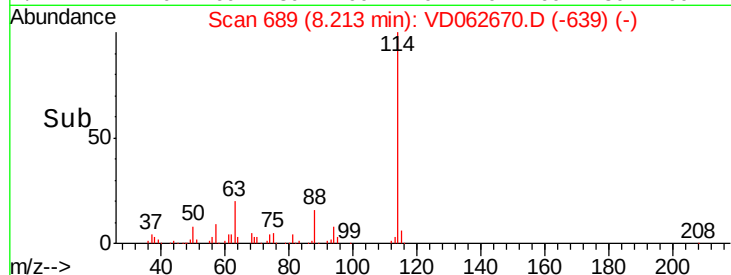
88 16.2 0.0 36.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 41.283 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

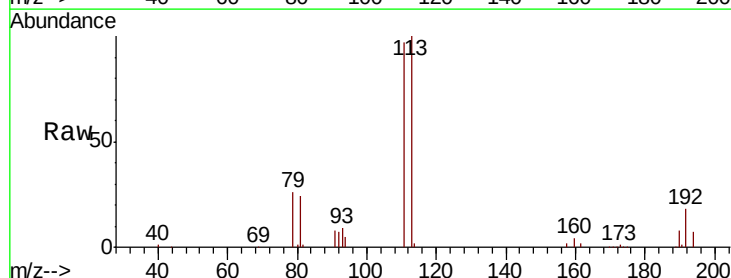
Tgt Ion:113 Resp: 340032

Ion Ratio Lower Upper

113 100

111 97.5 76.4 114.6

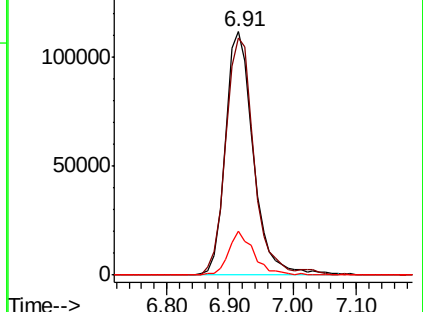
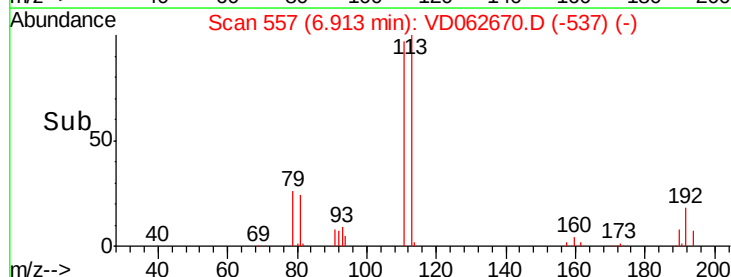
192 17.9 11.4 17.0#

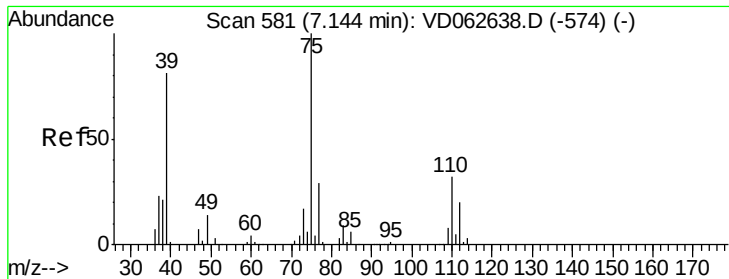


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.245 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.11 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

Instrument :

MSVOA_D

ClientSampleId :

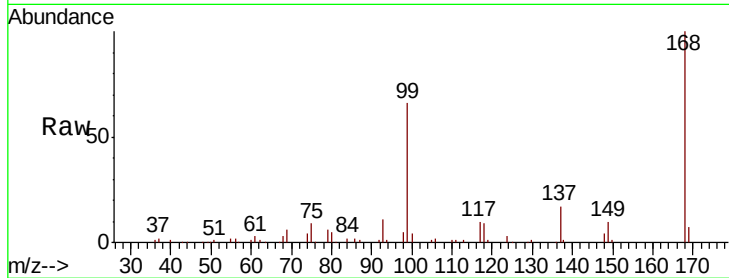
Tot Ion: 75 Resp: 46878

Ion Ratio Lower Upper

75 100

110 10.0 15.9 47.7#

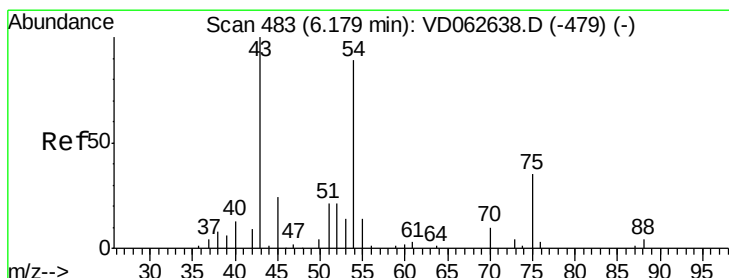
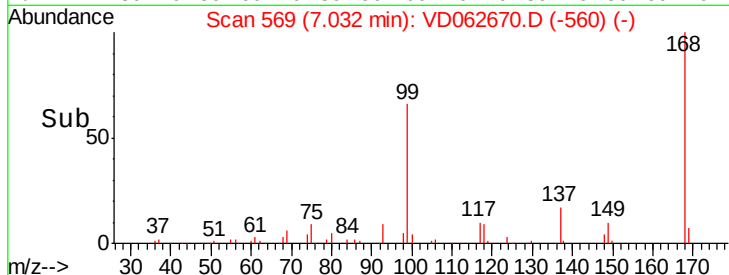
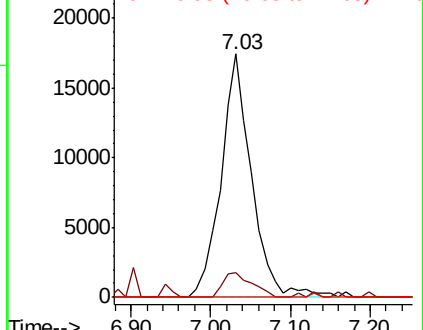
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.426 ug/l

RT: 6.14 min Scan# 478

Delta R.T. -0.04 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

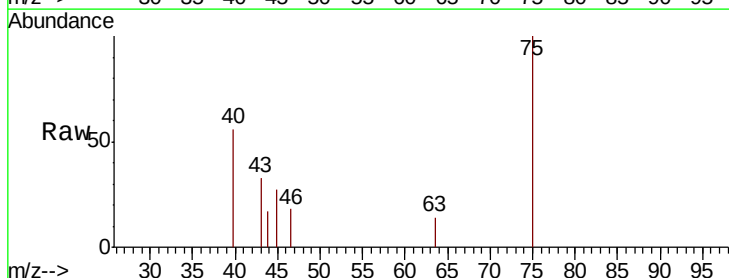
Tgt Ion: 43 Resp: 880

Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

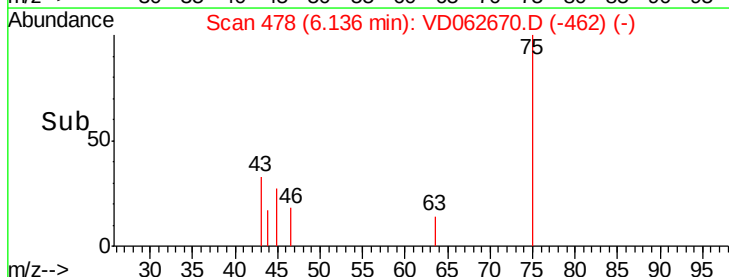
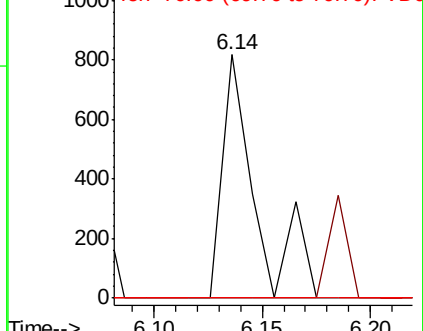
70 0.0 6.5 9.7#

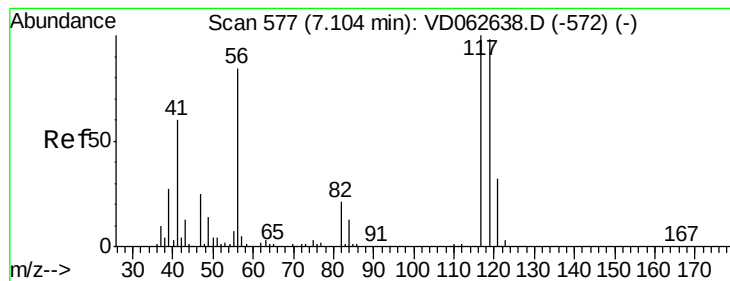


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.324 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

Instrument :

MSVOA_D

ClientSampleId :

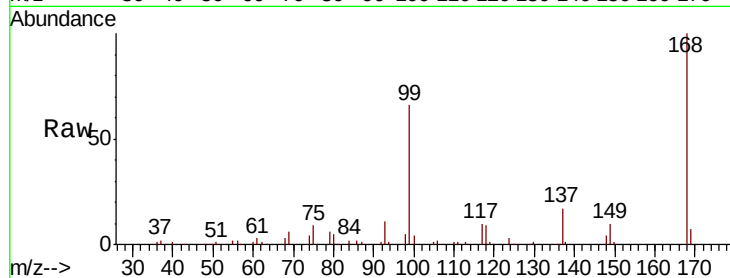
Tot Ion:117 Resp: 61091

Ion Ratio Lower Upper

117 100

119 5.5 73.5 110.3#

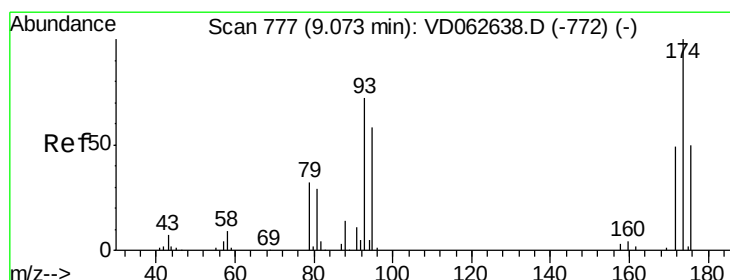
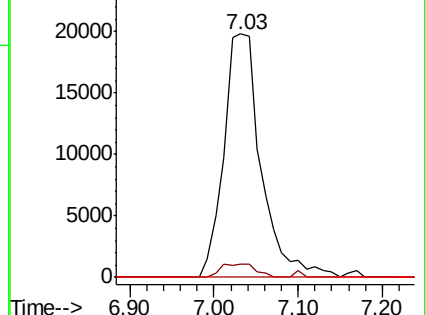
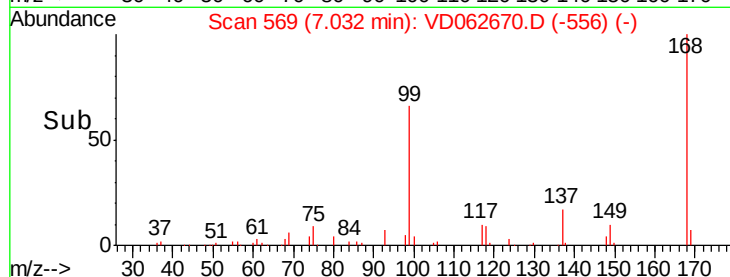
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 55.050 ug/l

RT: 9.29 min Scan# 798

Delta R.T. 0.21 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

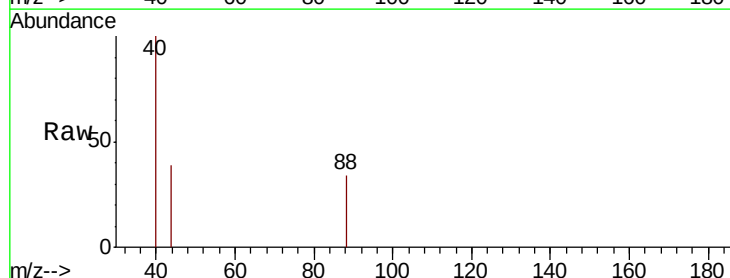
Tgt Ion: 88 Resp: 249

Ion Ratio Lower Upper

88 100

43 0.0 40.7 61.1#

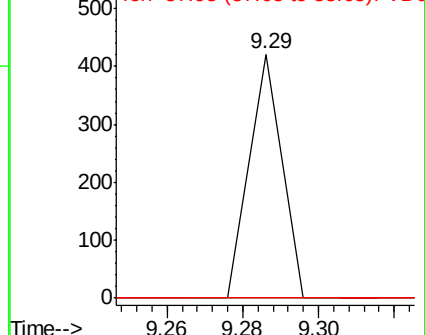
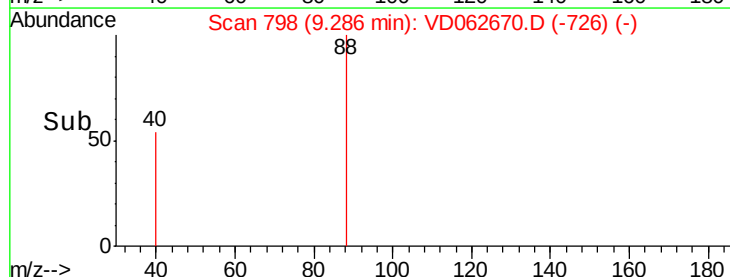
58 0.0 54.2 81.4#

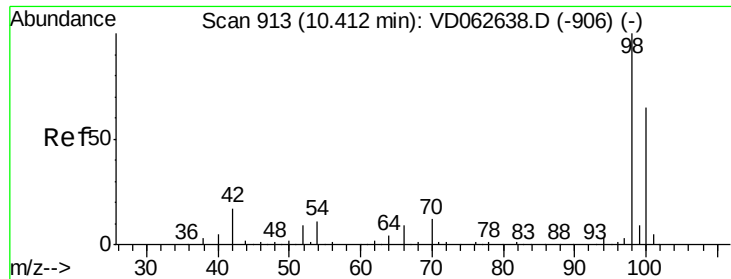


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.05 (42.75 to 43.75): V

Ion 57.95 (57.65 to 58.65): V

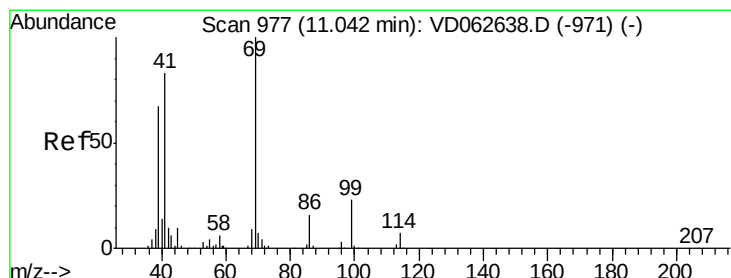
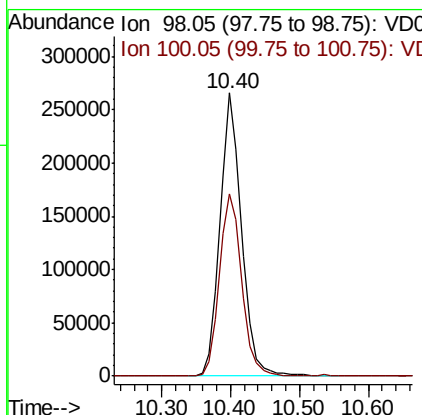
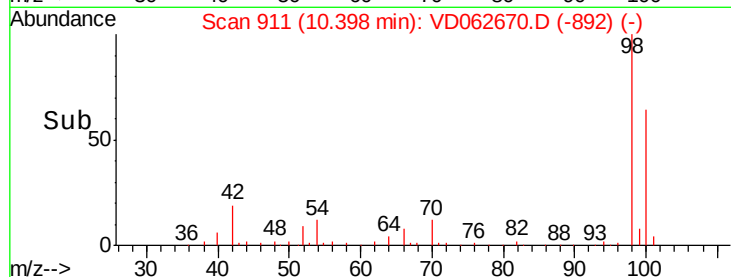
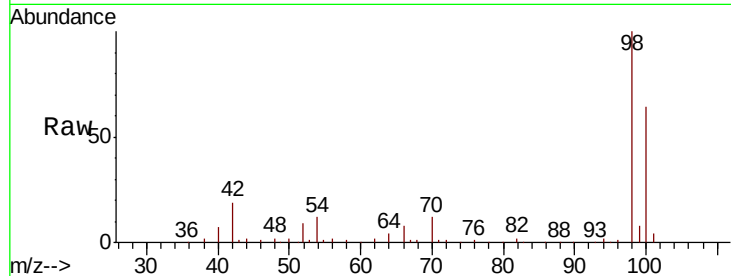




#50
Toluene-d8
Concen: 33.196 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

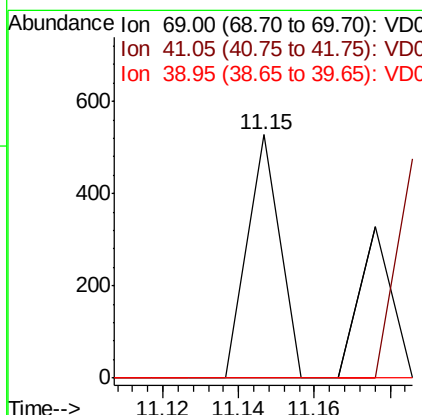
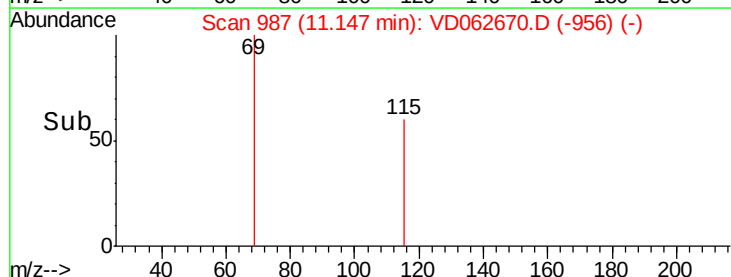
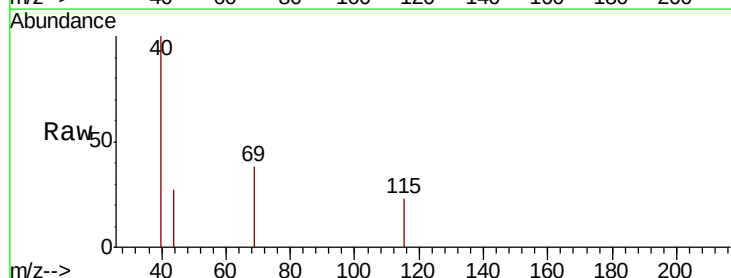
Instrument :
MSVOA_D
ClientSampleId :

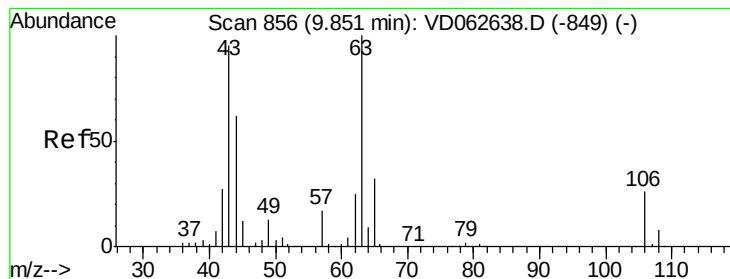
Tot Ion: 98 Resp: 575186
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1



#56
Ethyl methacrylate
Concen: 3.999 ug/l
RT: 11.15 min Scan# 987
Delta R.T. 0.10 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Tgt Ion: 69 Resp: 312
Ion Ratio Lower Upper
69 100
41 0.0 66.2 99.4#
39 0.0 53.8 80.8#





#58

2-Chloroethyl Vinyl ether

Concen: 1.300 ug/l

RT: 9.85 min Scan# 855

Delta R.T. -0.00 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

Instrument :

MSVOA_D

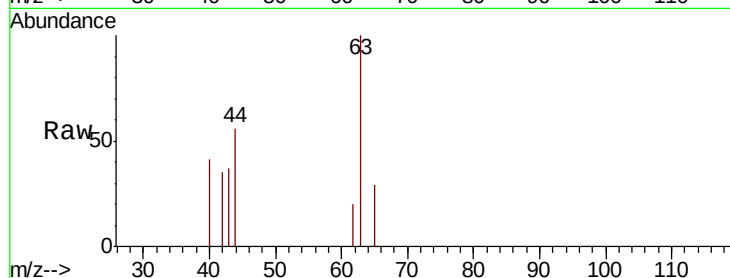
ClientSampleId :

Tot Ion: 63 Resp: 2795

Ion Ratio Lower Upper

63 100

106 0.0 20.5 30.7#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.85

2000

1500

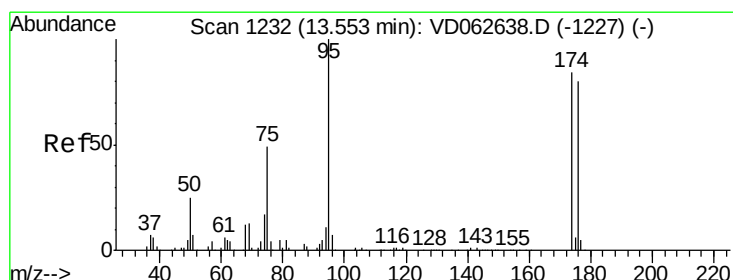
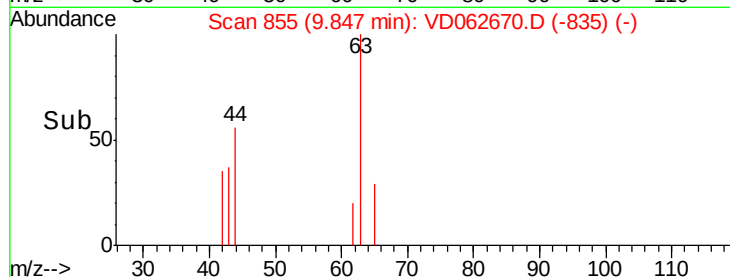
1000

500

0

9.80 9.85 9.90

Time-->



#62

4-Bromofluorobenzene

Concen: 24.857 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD062670.D

Acq: 12 Jun 2019 13:22

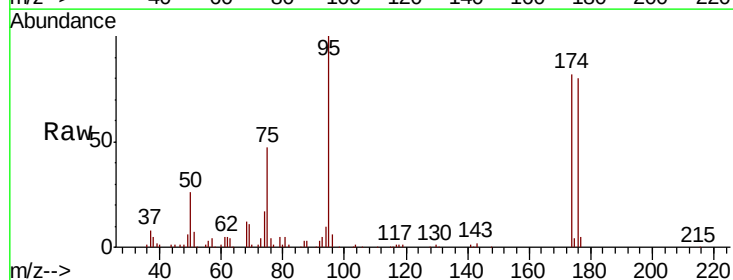
Tgt Ion: 95 Resp: 200936

Ion Ratio Lower Upper

95 100

174 82.0 0.0 167.0

176 79.9 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

200000

150000

100000

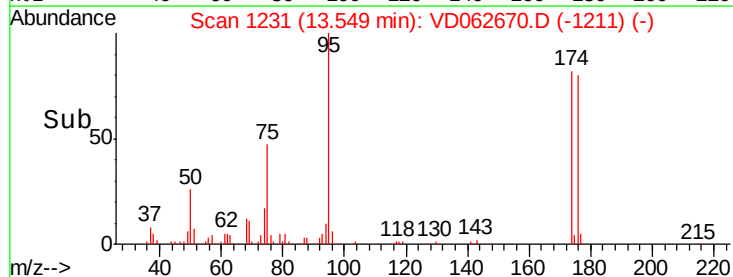
50000

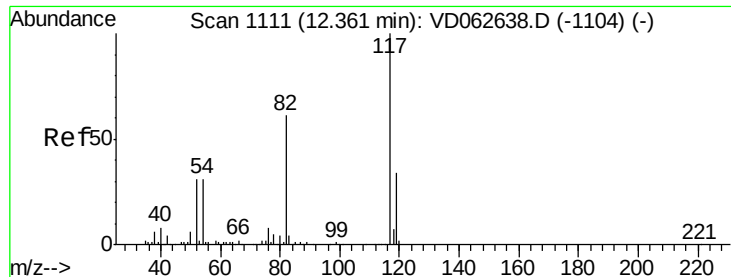
0

13.55

13.50 13.60

Time-->

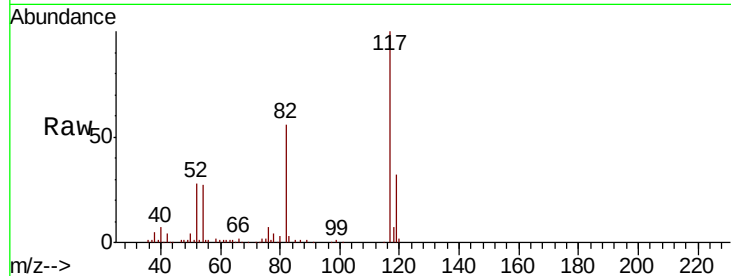




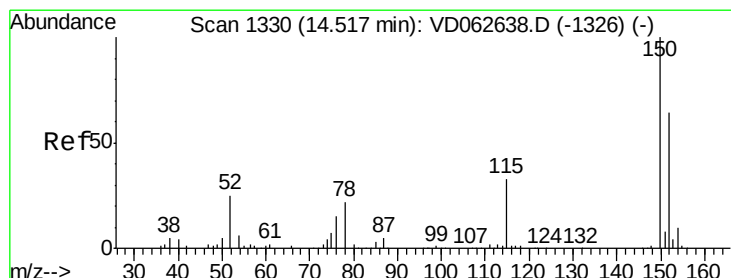
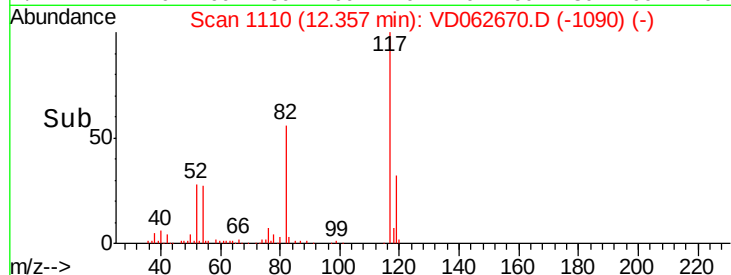
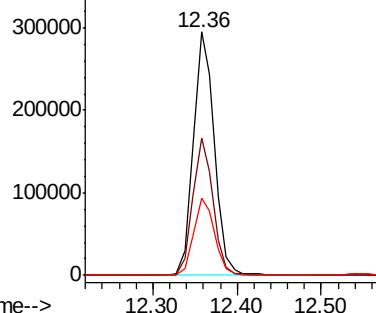
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	48.7	73.1
119	31.6	27.0	40.6

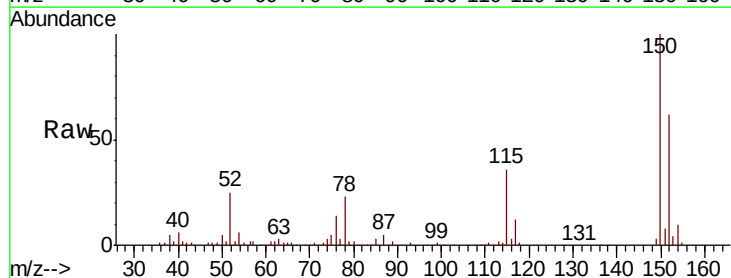


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

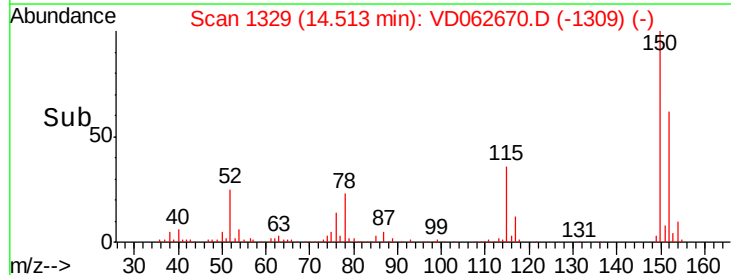
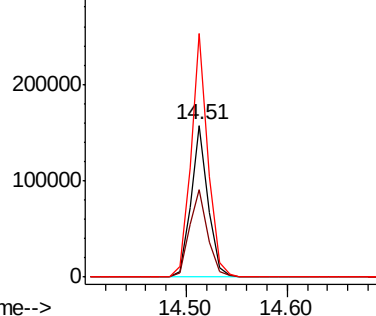


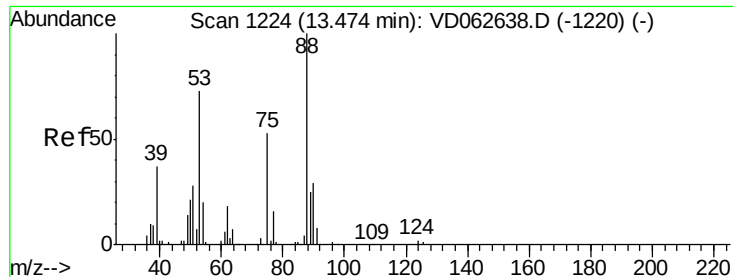
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	30.1	90.5
150	160.1	0.0	314.0



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

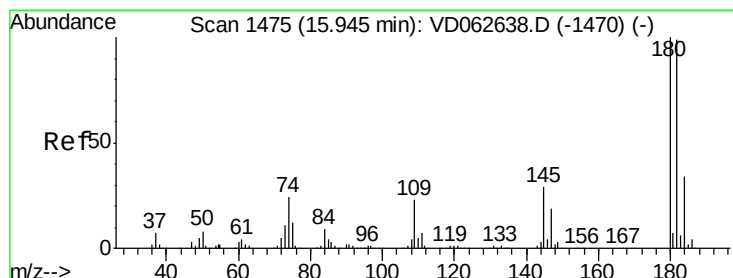
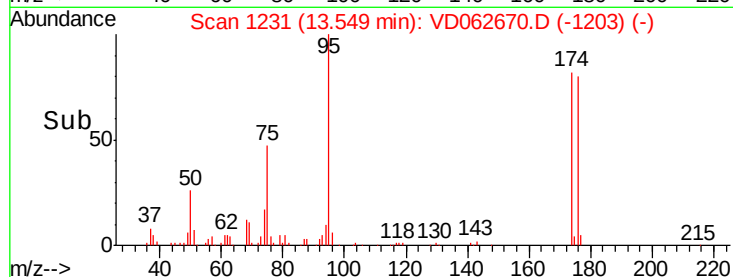
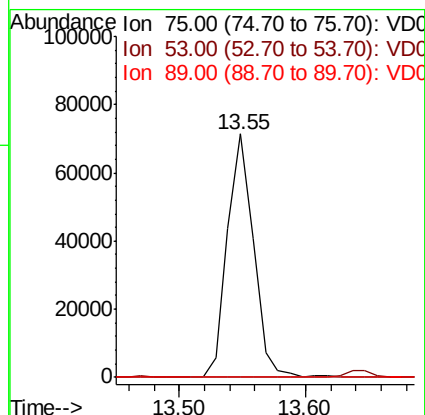
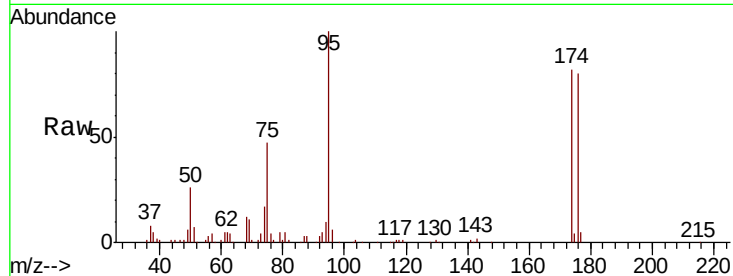




#81
trans-1,4-Dichloro-2-butene
Concen: 128.140 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.08 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

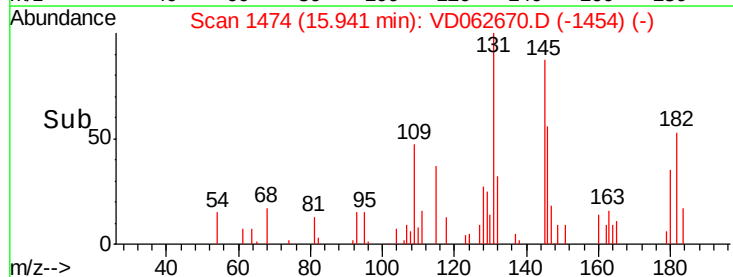
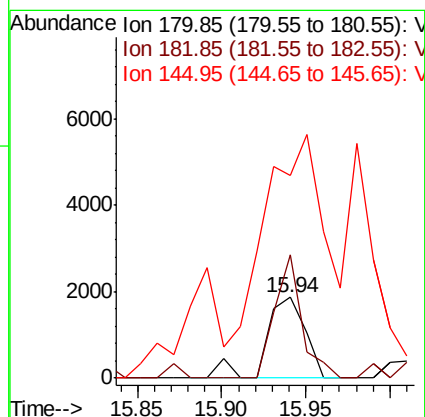
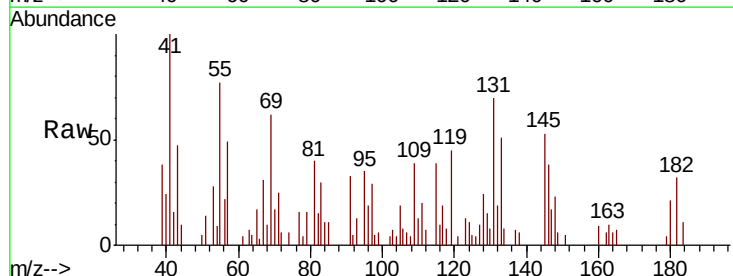
Instrument :
MSVOA_D
ClientSampled :

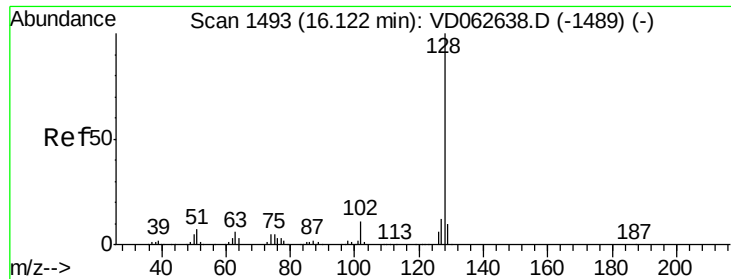
Tot Ion: 75 Resp: 101924
Ion Ratio Lower Upper
75 100
53 0.0 109.4 164.2#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 4.134 ug/l
RT: 15.94 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Tgt Ion:180 Resp: 2949
Ion Ratio Lower Upper
180 100
182 151.5 49.4 148.2#
145 250.6 14.5 43.6#

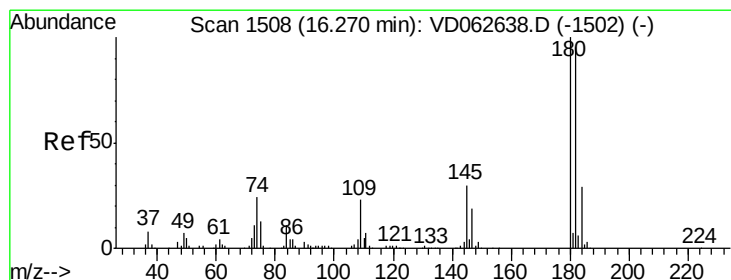
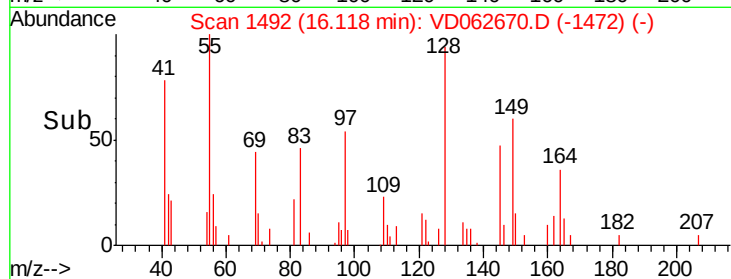
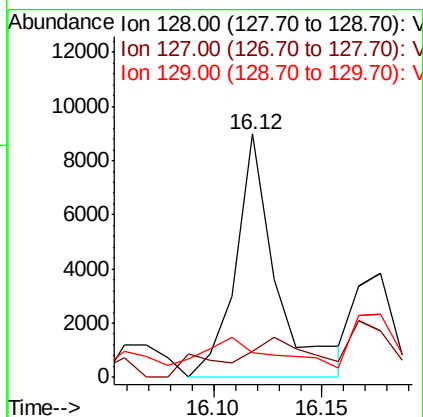
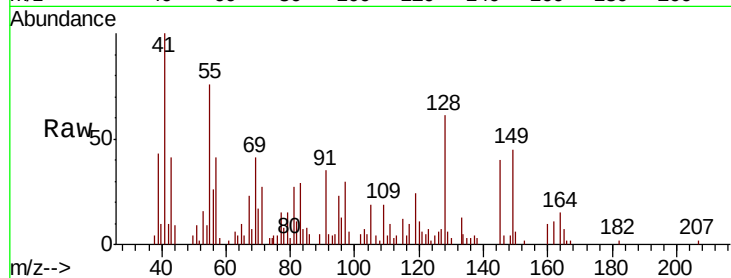




#95
Naphthalene
Concen: 5.050 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:128 Resp: 11732
Ion Ratio Lower Upper
128 100
127 10.8 9.7 14.5
129 10.4 8.1 12.1



#96
1,2,3-Trichlorobenzene
Concen: 1.805 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. -0.00 min
Lab File: VD062670.D
Acq: 12 Jun 2019 13:22

Tgt Ion:180 Resp: 5934
Ion Ratio Lower Upper
180 100
182 82.1 47.7 143.1
145 360.8 15.0 45.0#

