

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\
 Data File : VD062680.D
 Acq On : 12 Jun 2019 17:57
 Operator : VA/AP
 Sample : K3273-12RE
 Misc : 4.56g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 13 07:25:43 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	686278	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	972787	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	846051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	491935	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	363722	36.73	ug/l	-0.01
Spiked Amount			Recovery	=	73.46%	
35) Dibromofluoromethane	6.91	113	389615	37.98	ug/l	0.00
Spiked Amount			Recovery	=	75.96%	
50) Toluene-d8	10.40	98	746712	34.60	ug/l	-0.01
Spiked Amount			Recovery	=	69.20%	
62) 4-Bromofluorobenzene	13.55	95	380723	37.81	ug/l	0.00
Spiked Amount			Recovery	=	75.62%	

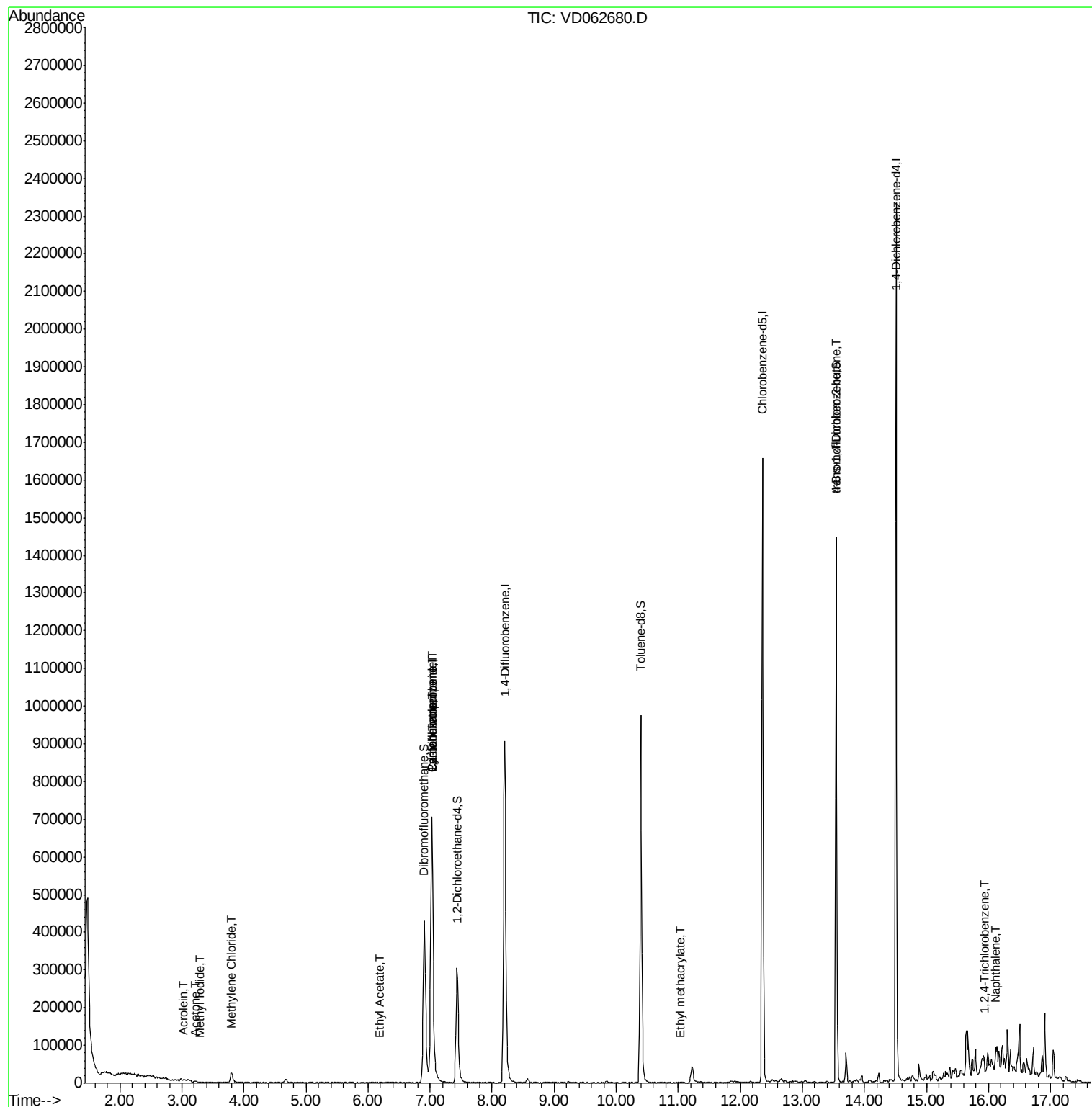
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	713	Below Cal	#	42
10) Methyl Iodide	3.30	142	477	4.045	ug/l #	24
13) Acrolein	3.03	56	182	1.390	ug/l #	63
16) Acetone	3.21	43	8642	4.766	ug/l	98
20) Methylene Chloride	3.79	84	15512	1.839	ug/l	84
31) Cyclohexane	7.02	56	14032	1.796	ug/l #	8
36) 1,1-Dichloropropene	7.02	75	57139	5.132	ug/l #	51
37) Ethyl Acetate	6.18	43	201	1.242	ug/l #	74
38) Carbon Tetrachloride	7.03	117	70069	3.982	ug/l #	17
56) Ethyl methacrylate	11.03	69	183	3.967	ug/l #	12
81) trans-1,4-Dichloro-2-buten	13.55	75	182664	89.046	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	836	3.629	ug/l #	1
95) Naphthalene	16.12	128	32072	5.122	ug/l #	82

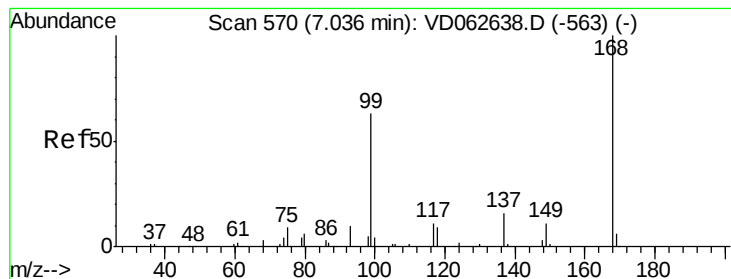
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 08 00:02:21 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Instrument :

MSVOA_D

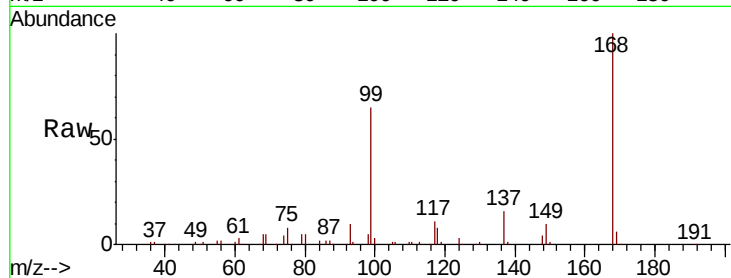
ClientSampleId :

Tot Ion:168 Resp: 686278

Ion Ratio Lower Upper

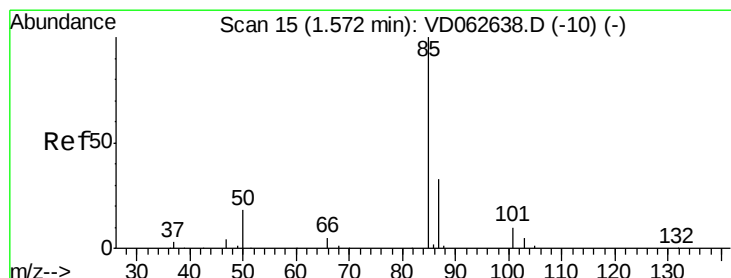
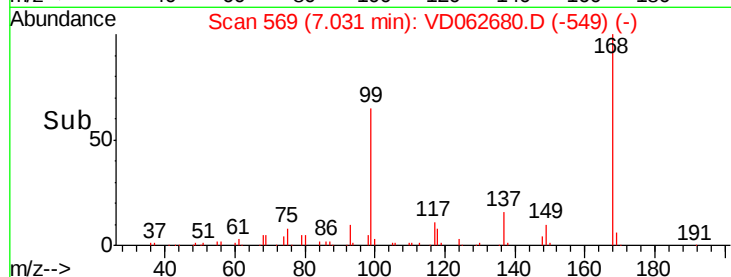
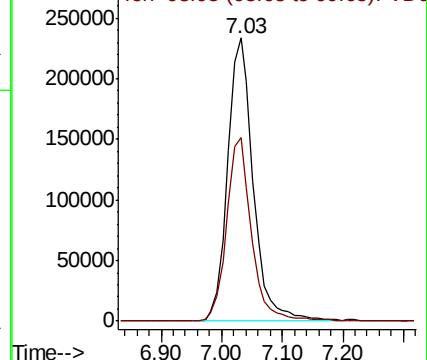
168 100

99 64.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 14

Delta R.T. -0.00 min

Lab File: VD062680.D

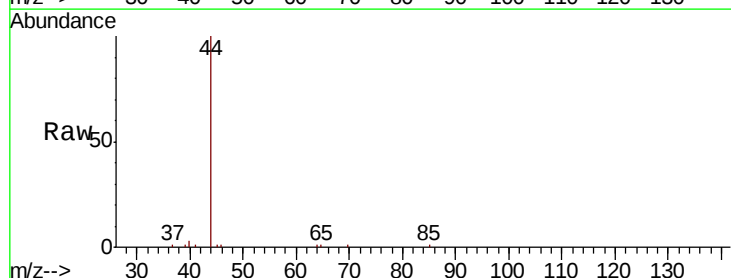
Acq: 12 Jun 2019 17:57

Tgt Ion: 85 Resp: 713

Ion Ratio Lower Upper

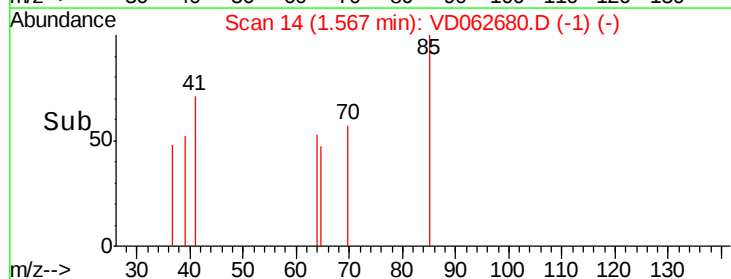
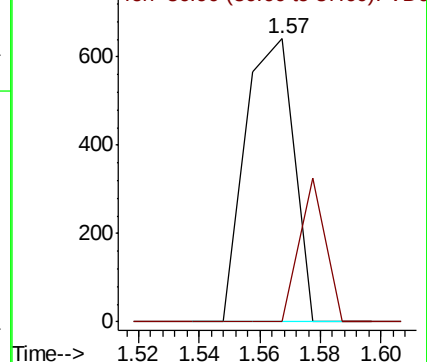
85 100

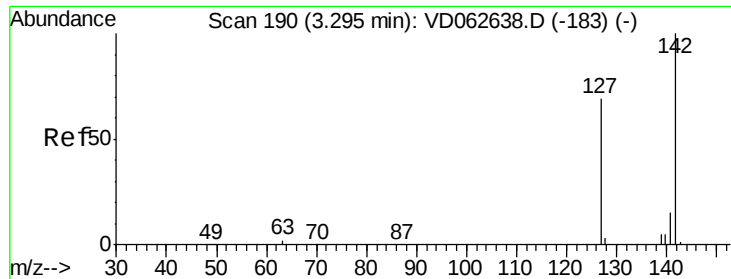
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

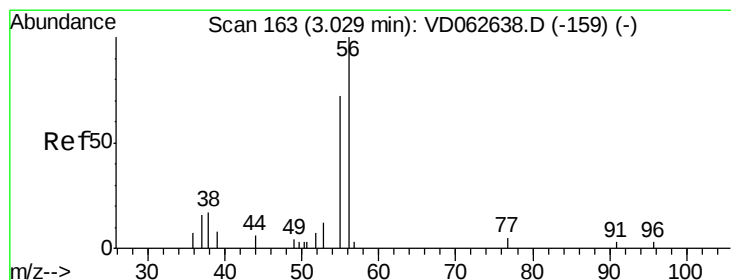
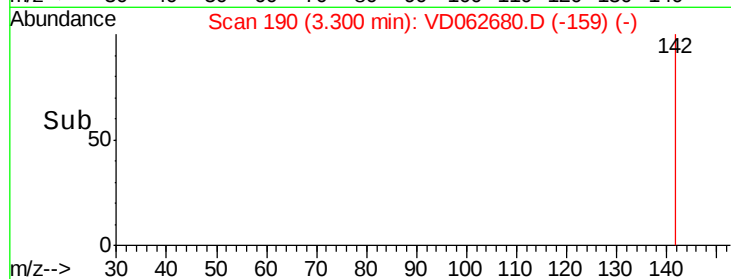
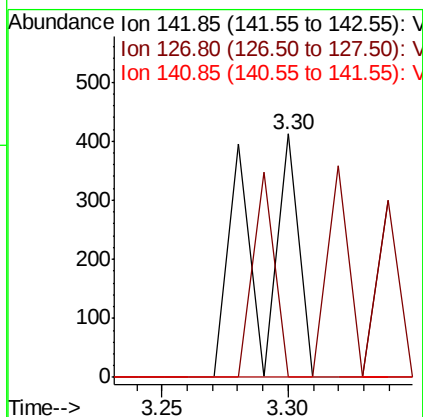
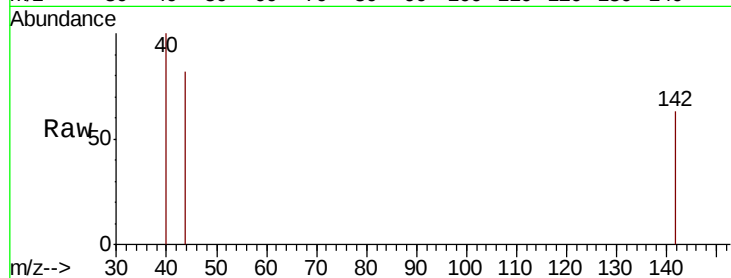




#10
Methvl Iodide
Concen: 4.045 ug/l
RT: 3.30 min Scan# 190
Delta R.T. 0.01 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

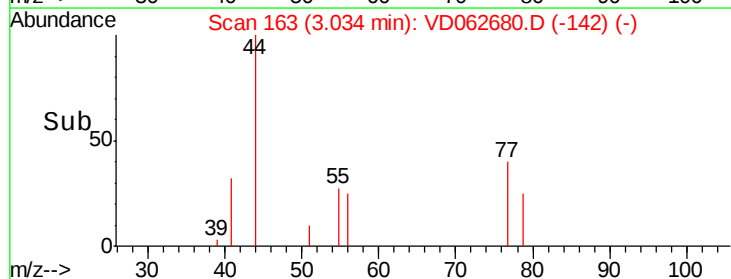
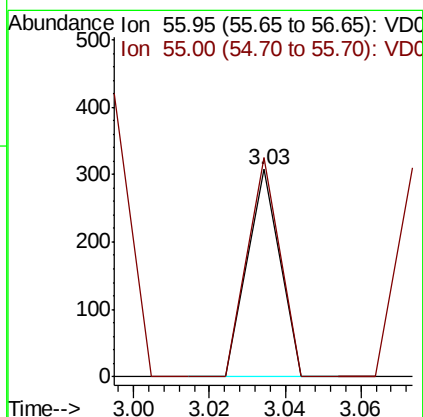
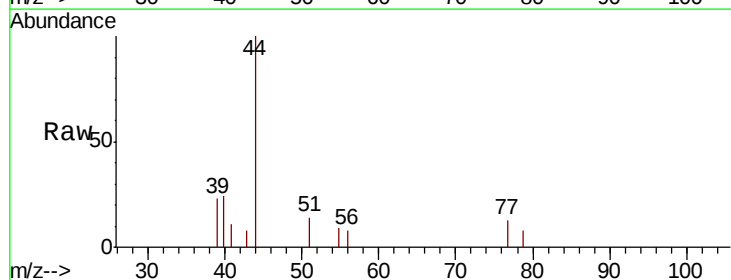
Instrument :
MSVOA_D
ClientSampled :

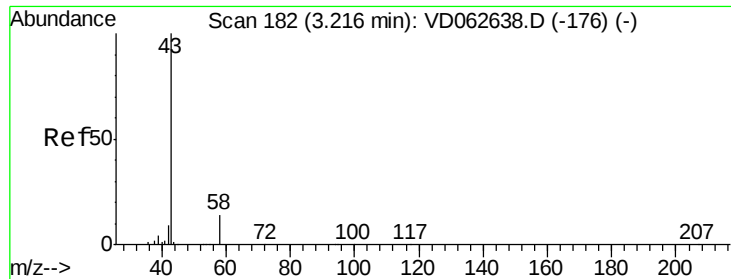
Tot Ion:142 Resp: 477
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#13
Acrolein
Concen: 1.390 ug/l
RT: 3.03 min Scan# 163
Delta R.T. 0.01 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

Tgt Ion: 56 Resp: 182
Ion Ratio Lower Upper
56 100
55 105.8 59.4 89.0#





#16

Acetone

Concen: 4.766 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.00 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Instrument :

MSVOA_D

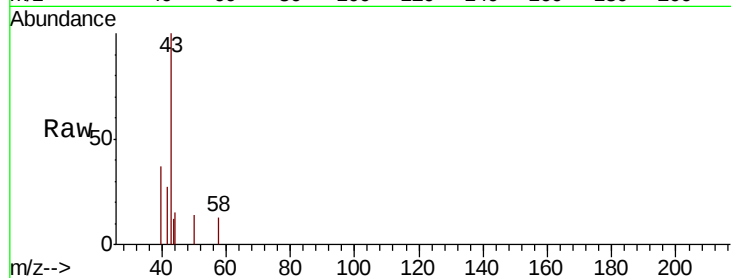
ClientSampleId :

Tot Ion: 43 Resp: 8642

Ion Ratio Lower Upper

43 100

58 12.6 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

3000

2500

2000

1500

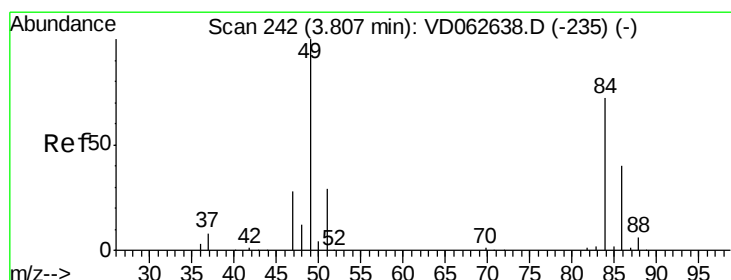
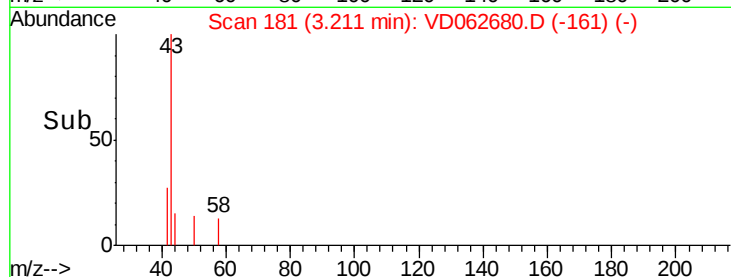
1000

500

0

Time-->

3.10 3.15 3.20 3.25 3.30



#20

Methylene Chloride

Concen: 1.839 ug/l

RT: 3.79 min Scan# 240

Delta R.T. -0.01 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Tgt Ion: 84 Resp: 15512

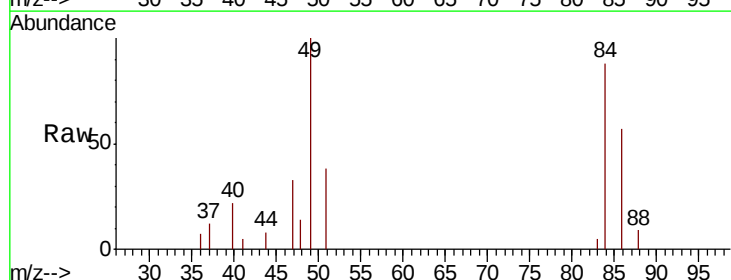
Ion Ratio Lower Upper

84 100

49 113.6 111.2 166.8

51 42.9 31.9 47.9

86 64.2 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

10000

8000

6000

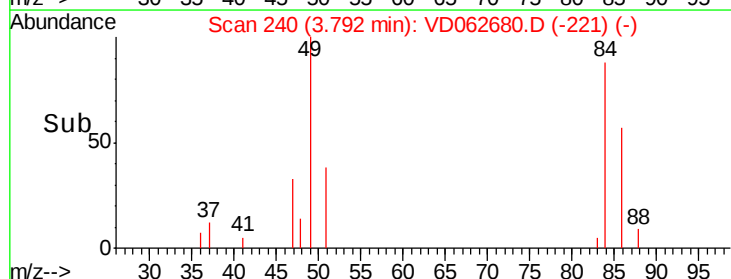
4000

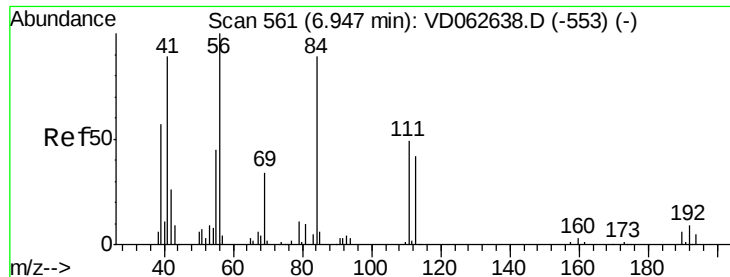
2000

0

Time-->

3.70 3.75 3.80 3.85 3.90

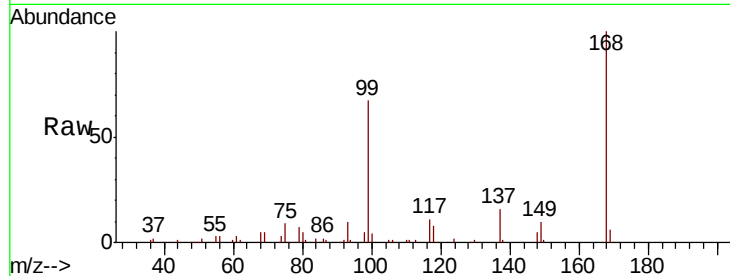




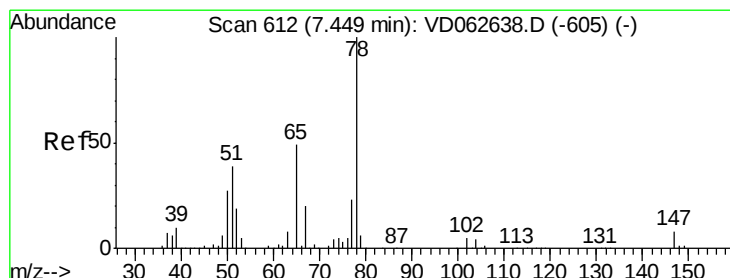
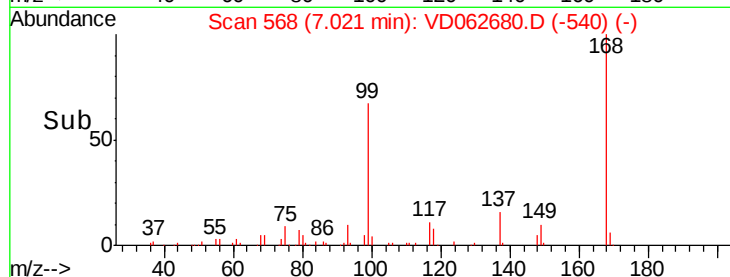
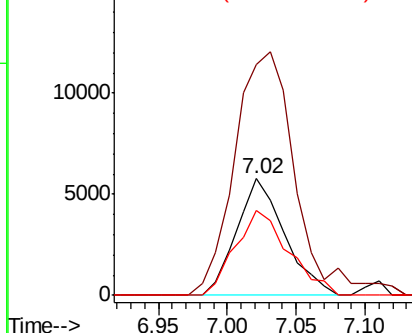
#31
Cvclohexane
Concen: 1.796 ug/l
RT: 7.02 min Scan# 568
Delta R.T. 0.07 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 14032
Ion Ratio Lower Upper
56 100
69 197.1 26.8 40.2#
84 72.5 73.9 110.9#

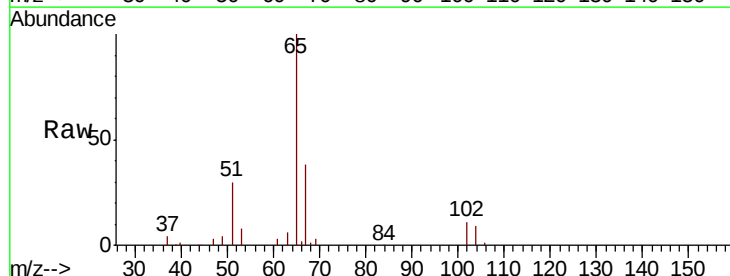


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

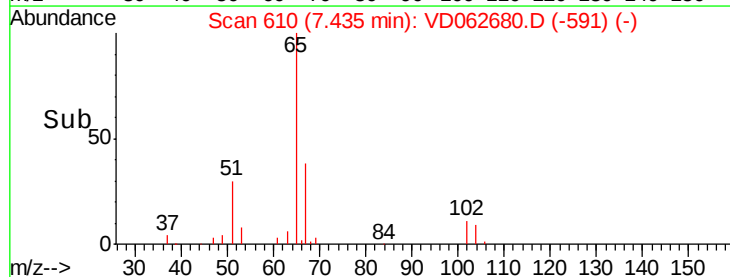
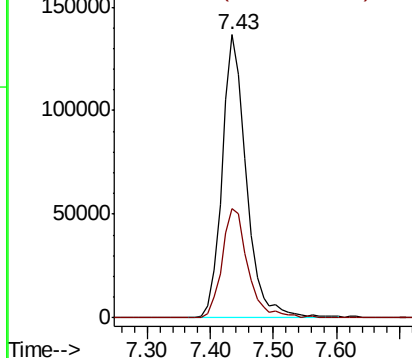


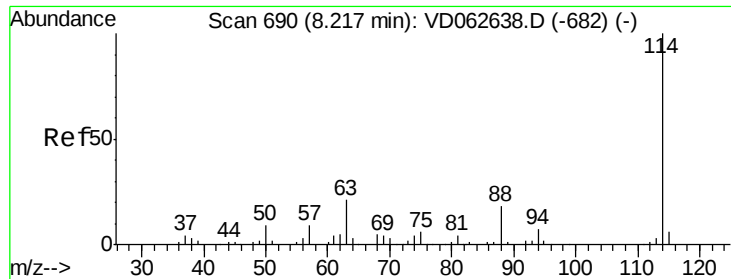
#33
1,2-Dichloroethane-d4
Concen: 36.729 ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.01 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

Tgt Ion: 65 Resp: 363722
Ion Ratio Lower Upper
65 100
67 38.4 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: 8.20 min Scan# 688

Delta R.T. -0.01 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

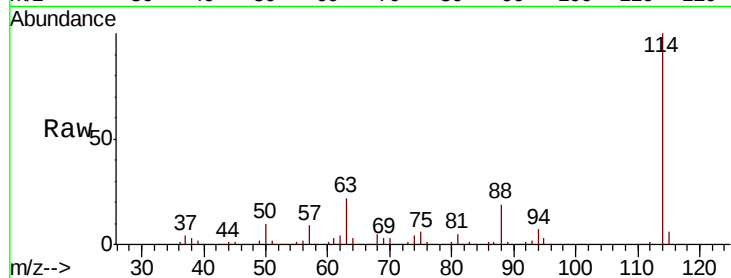
Tot Ion:114 Resp: 972787

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.4

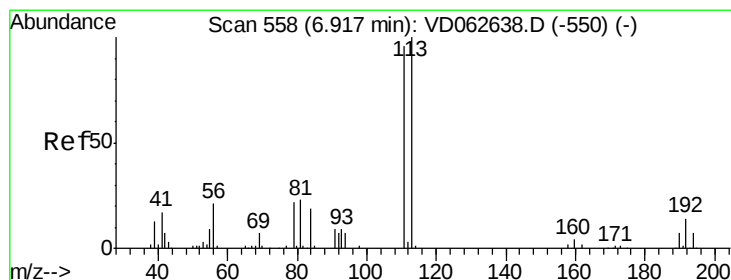
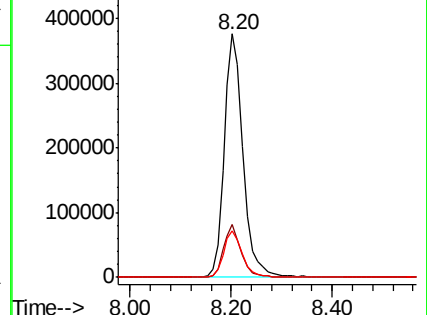
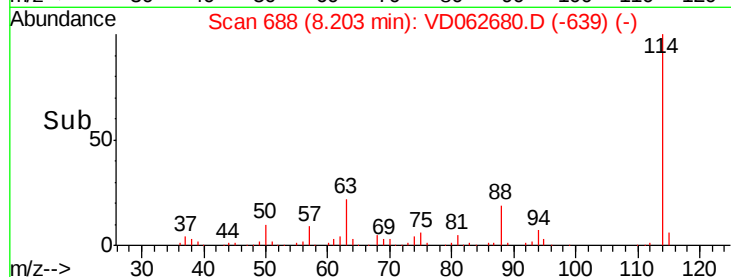
88 19.0 0.0 36.8



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: 37.977 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

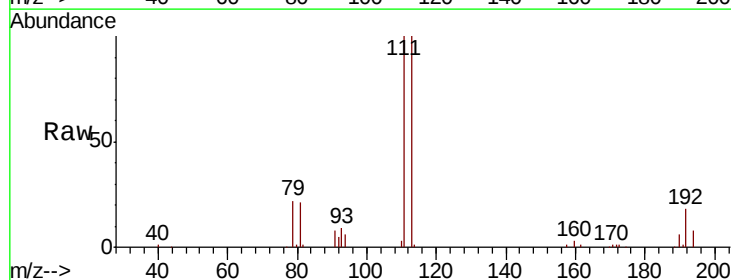
Tgt Ion:113 Resp: 389615

Ion Ratio Lower Upper

113 100

111 100.2 76.4 114.6

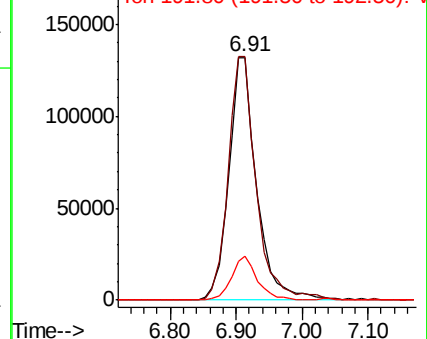
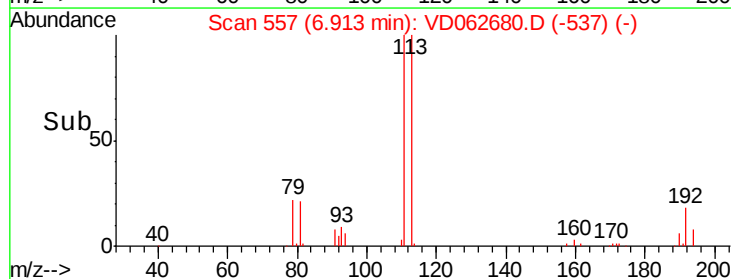
192 18.0 11.4 17.0#

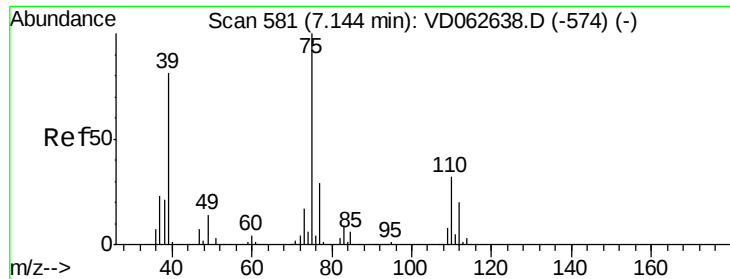


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.132 ug/l

RT: 7.02 min Scan# 568

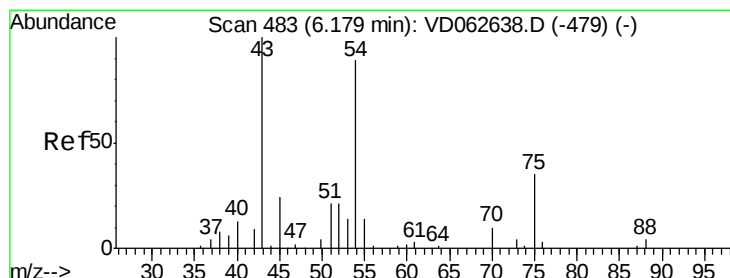
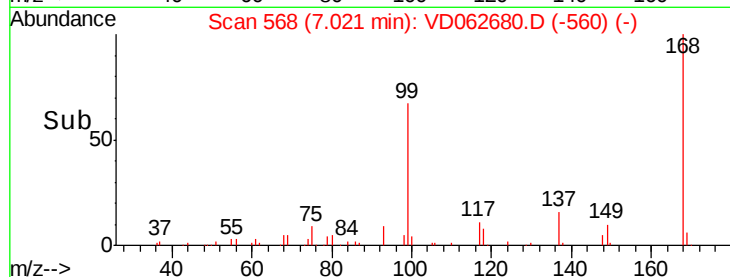
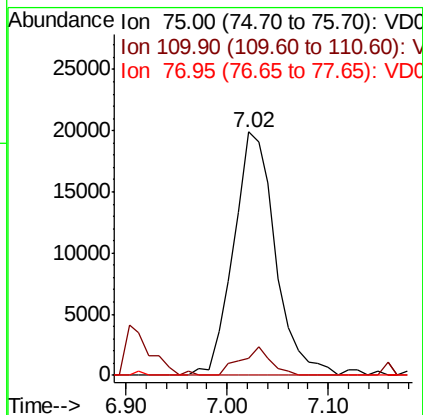
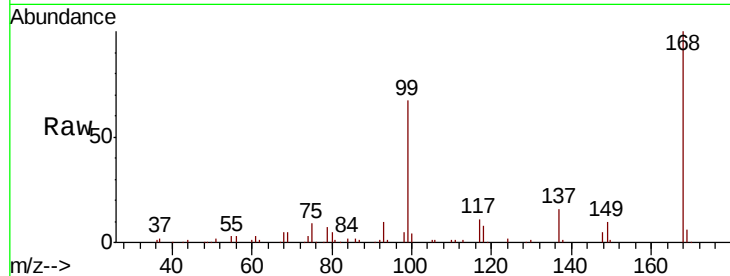
Delta R.T. -0.12 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	75	Resp:	57139
Ion	Ratio	Lower	Upper
75	100		
110	7.0	15.9	47.7#
77	0.0	23.3	34.9#



#37

Ethyl Acetate

Concen: 1.242 ug/l

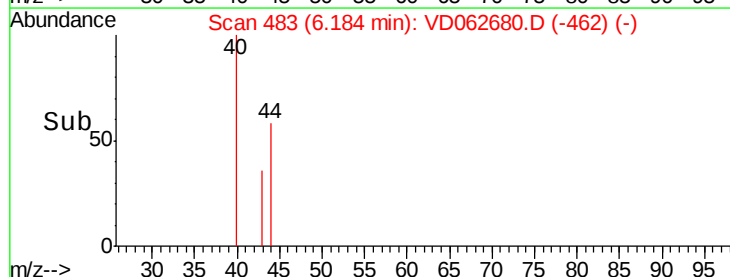
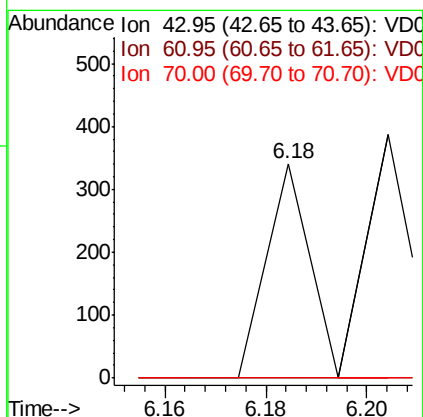
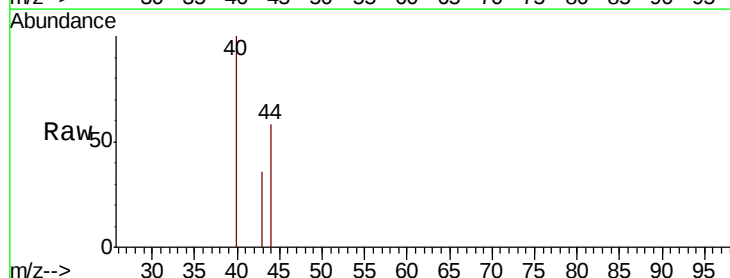
RT: 6.18 min Scan# 483

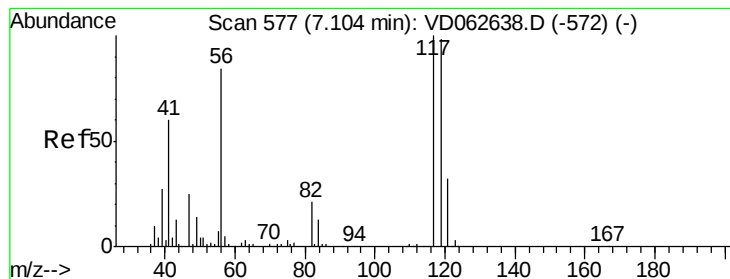
Delta R.T. 0.01 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Tgt Ion:	43	Resp:	201
Ion	Ratio	Lower	Upper
43	100		
61	0.0	8.7	13.1#
70	0.0	6.5	9.7#





#38

Carbon Tetrachloride

Concen: 3.982 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

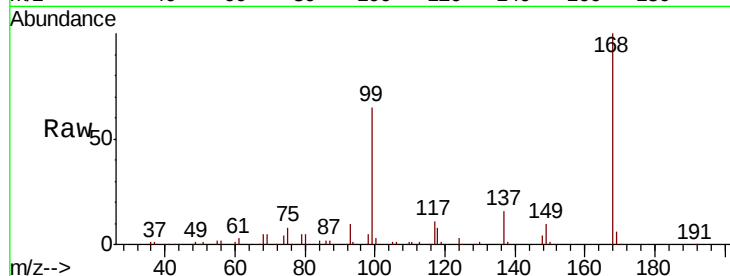
Tot Ion:117 Resp: 70069

Ion Ratio Lower Upper

117 100

119 4.5 73.5 110.3#

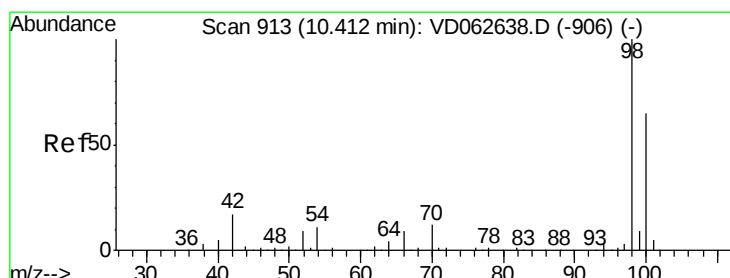
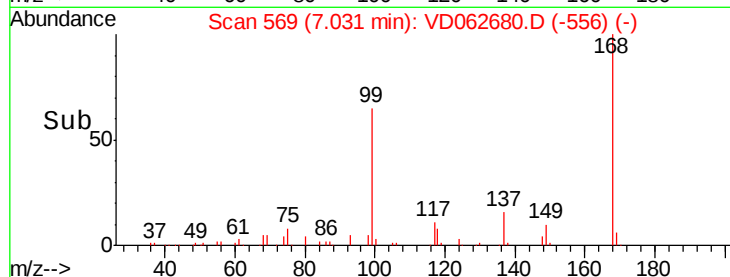
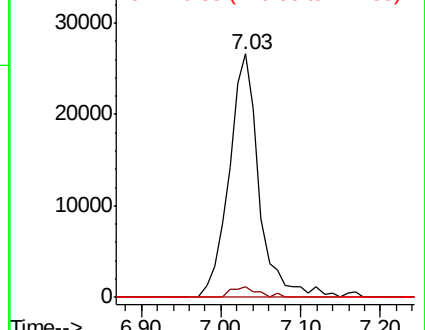
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 34.599 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD062680.D

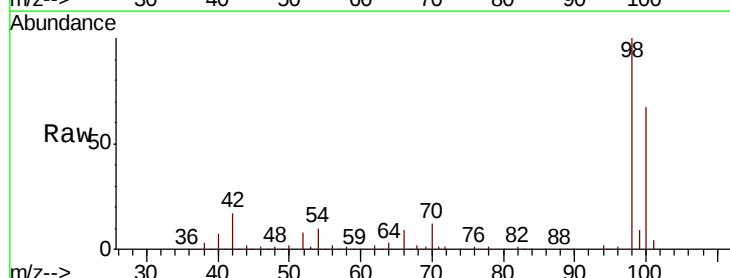
Acq: 12 Jun 2019 17:57

Tgt Ion: 98 Resp: 746712

Ion Ratio Lower Upper

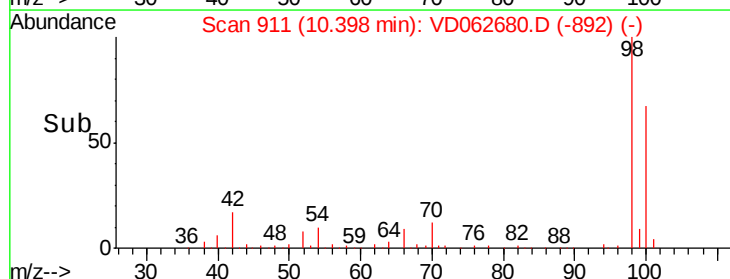
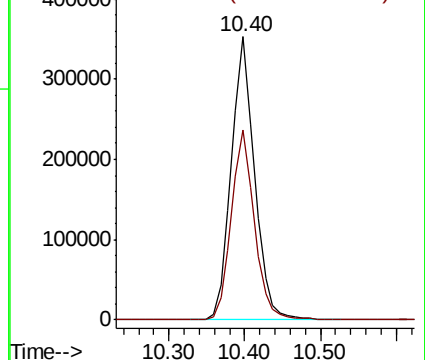
98 100

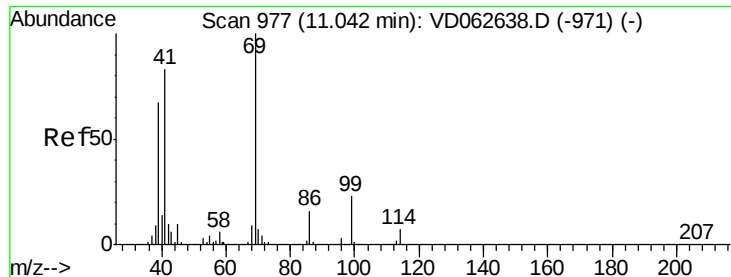
100 67.2 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

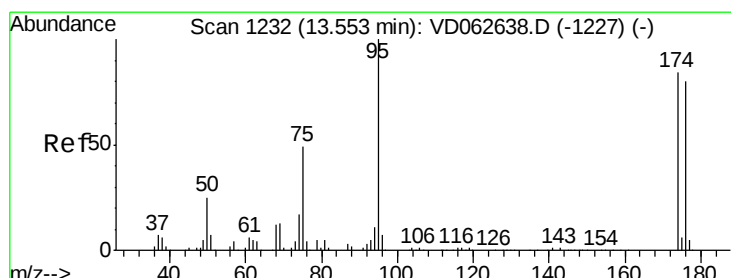
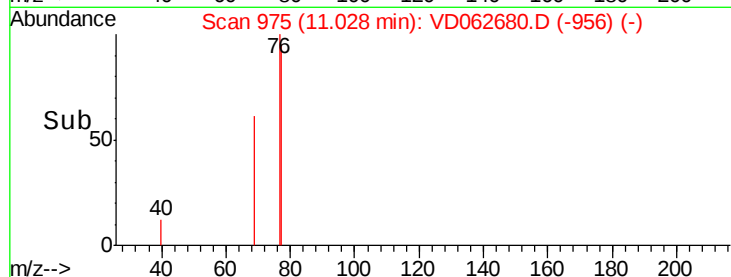
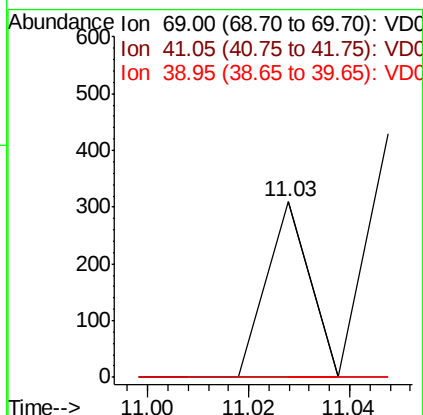
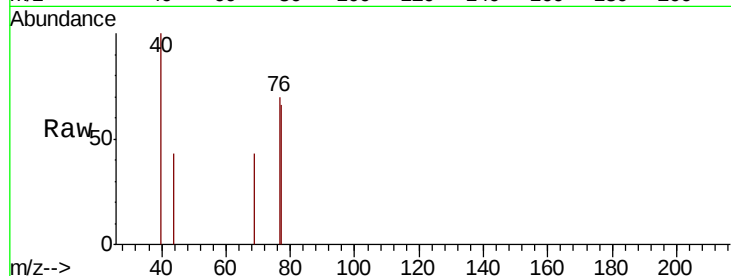




#56
Ethyl methacrylate
Concen: 3.967 ug/l
RT: 11.03 min Scan# 975
Delta R.T. -0.01 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

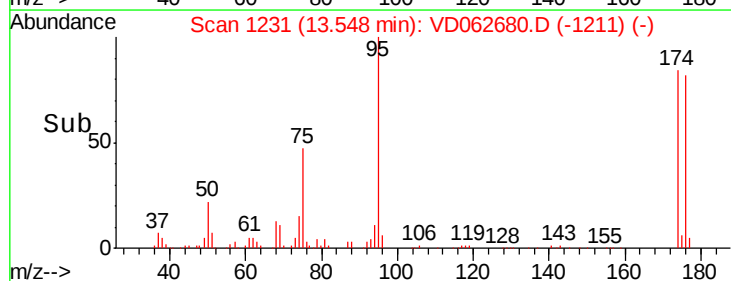
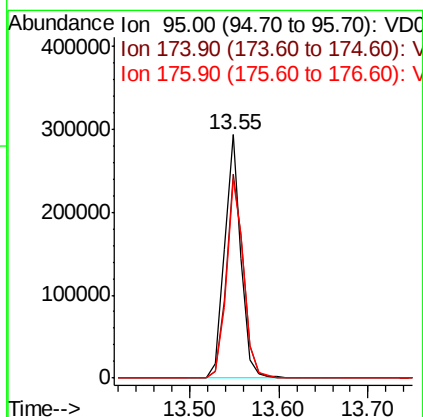
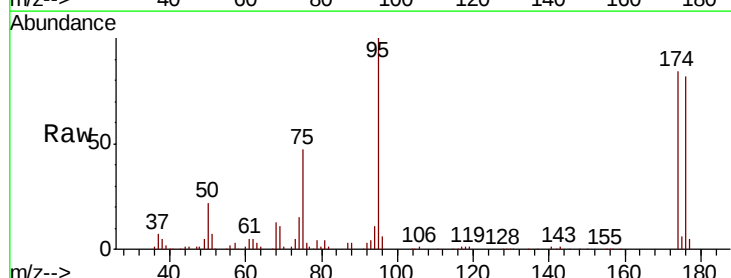
Instrument :
MSVOA_D
ClientSampleId :

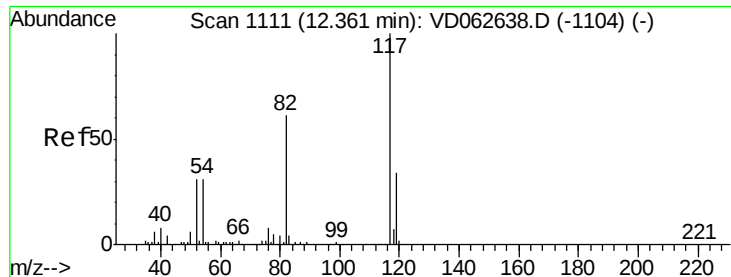
Tot Ion: 69 Resp: 183
Ion Ratio Lower Upper
69 100
41 0.0 66.2 99.4#
39 0.0 53.8 80.8#



#62
4-Bromofluorobenzene
Concen: 37.812 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

Tgt Ion: 95 Resp: 380723
Ion Ratio Lower Upper
95 100
174 83.6 0.0 167.0
176 81.8 0.0 159.2

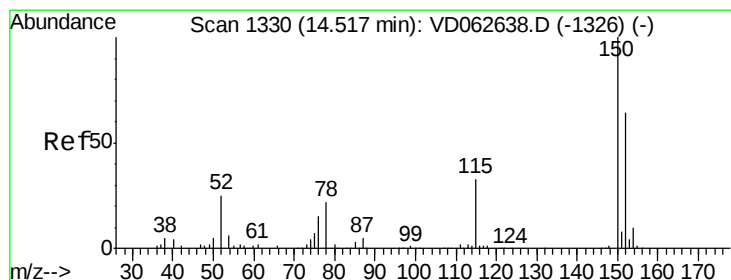
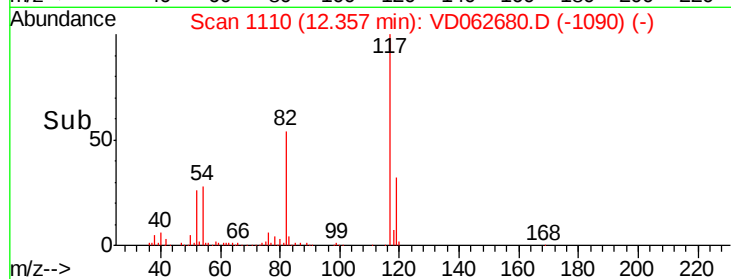
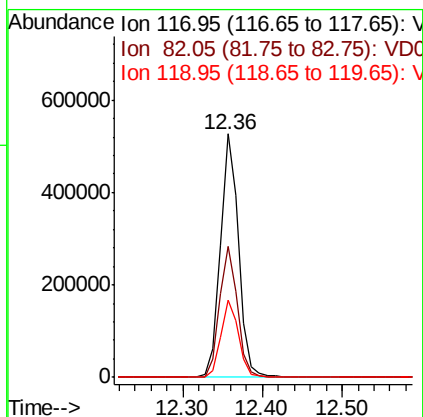
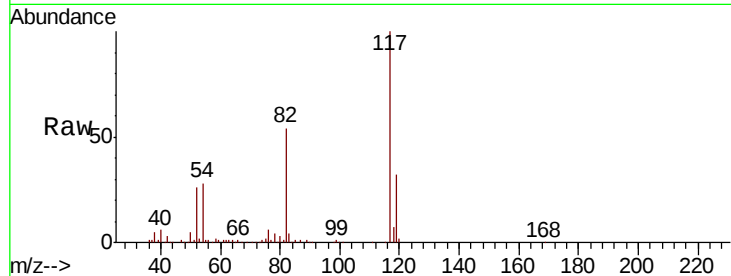




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

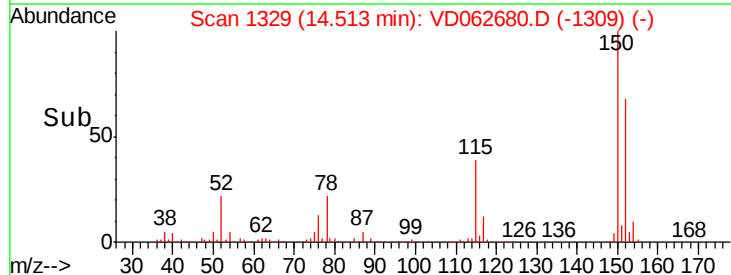
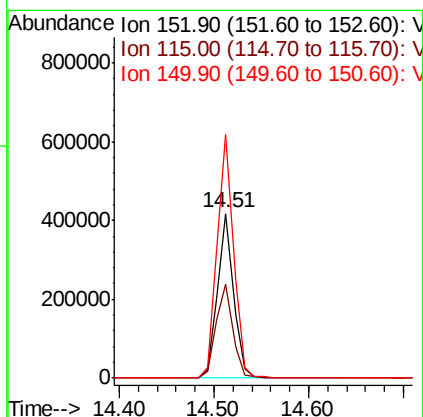
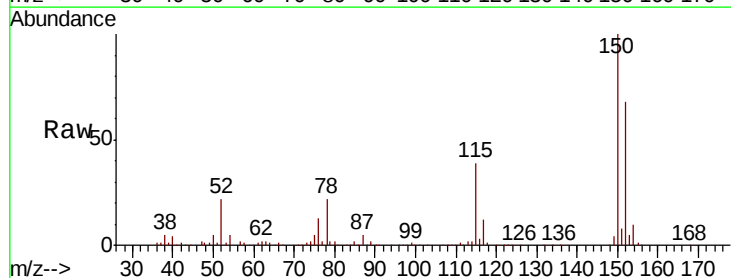
Instrument :
MSVOA_D
ClientSampleId :

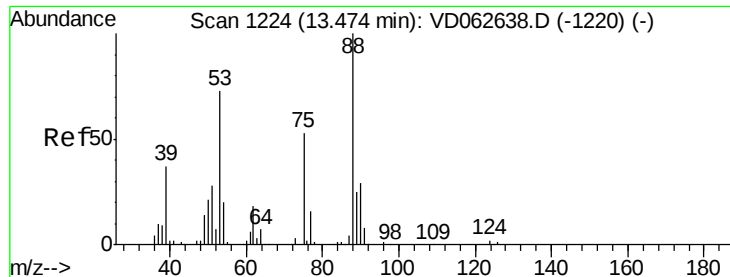
Tot Ion:117 Resp: 846051
Ion Ratio Lower Upper
117 100
82 53.7 48.7 73.1
119 31.8 27.0 40.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD062680.D
Acq: 12 Jun 2019 17:57

Tgt Ion:152 Resp: 491935
Ion Ratio Lower Upper
152 100
115 57.4 30.1 90.5
150 148.0 0.0 314.0





#81

trans-1,4-Dichloro-2-butene

Concen: 89.046 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

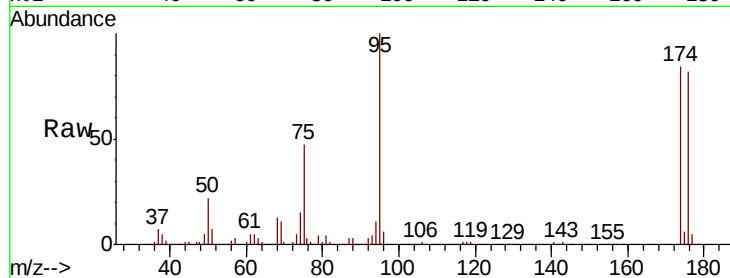
Tot Ion: 75 Resp: 182664

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

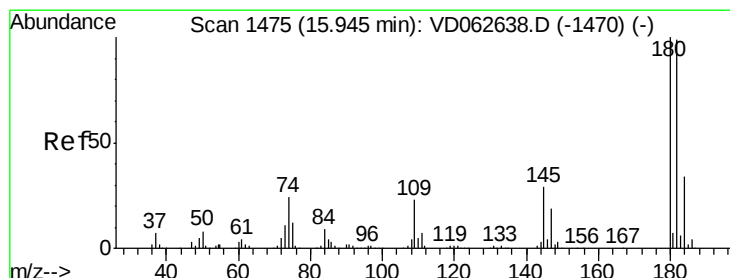
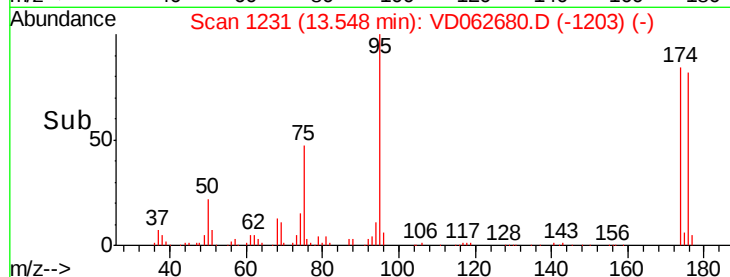
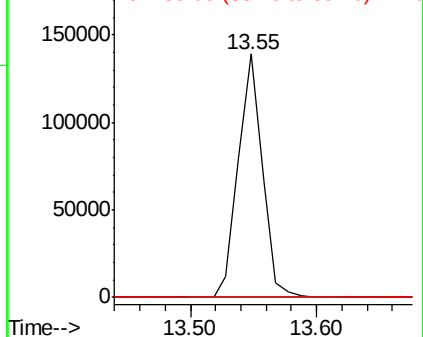
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#93

1,2,4-Trichlorobenzene

Concen: 3.629 ug/l

RT: 15.94 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VD062680.D

Acq: 12 Jun 2019 17:57

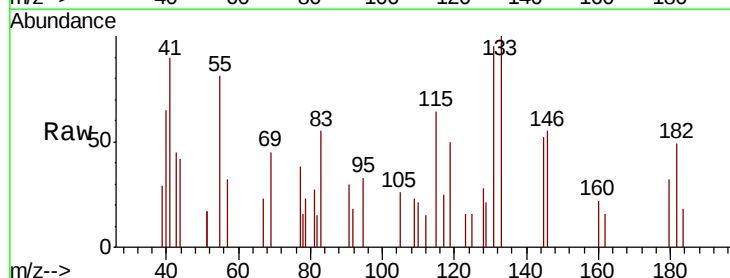
Tgt Ion:180 Resp: 836

Ion Ratio Lower Upper

180 100

182 153.8 49.4 148.2#

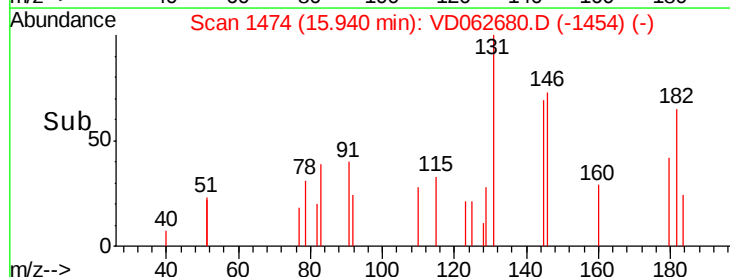
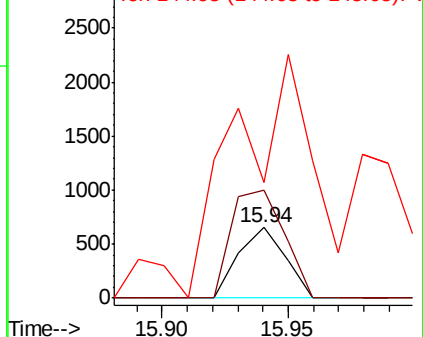
145 164.0 14.5 43.6#

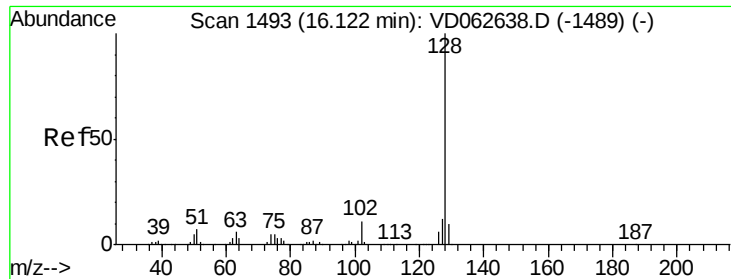


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95
 Naphthalene
 Concen: 5.122 ug/l
 RT: 16.12 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VD062680.D
 Acq: 12 Jun 2019 17:57

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	23.8	9.7	14.5#
129	11.0	8.1	12.1

