

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\
 Data File : VD062672.D
 Acq On : 12 Jun 2019 14:16
 Operator : VA/AP
 Sample : K3273-05RE
 Misc : 5.30g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4 1.0-1.5 060719

Quant Time: Jun 13 07:24:10 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	7.04	168	641673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	961837	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	770528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	381454	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	418198	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	
35) Dibromofluoromethane	6.91	113	442555	43.63	ug/l	0.00
Spiked Amount			Recovery	=	87.26%	
50) Toluene-d8	10.40	98	798758	37.43	ug/l	0.00
Spiked Amount			Recovery	=	74.86%	
62) 4-Bromofluorobenzene	13.55	95	399511	40.13	ug/l	0.00
Spiked Amount			Recovery	=	80.26%	

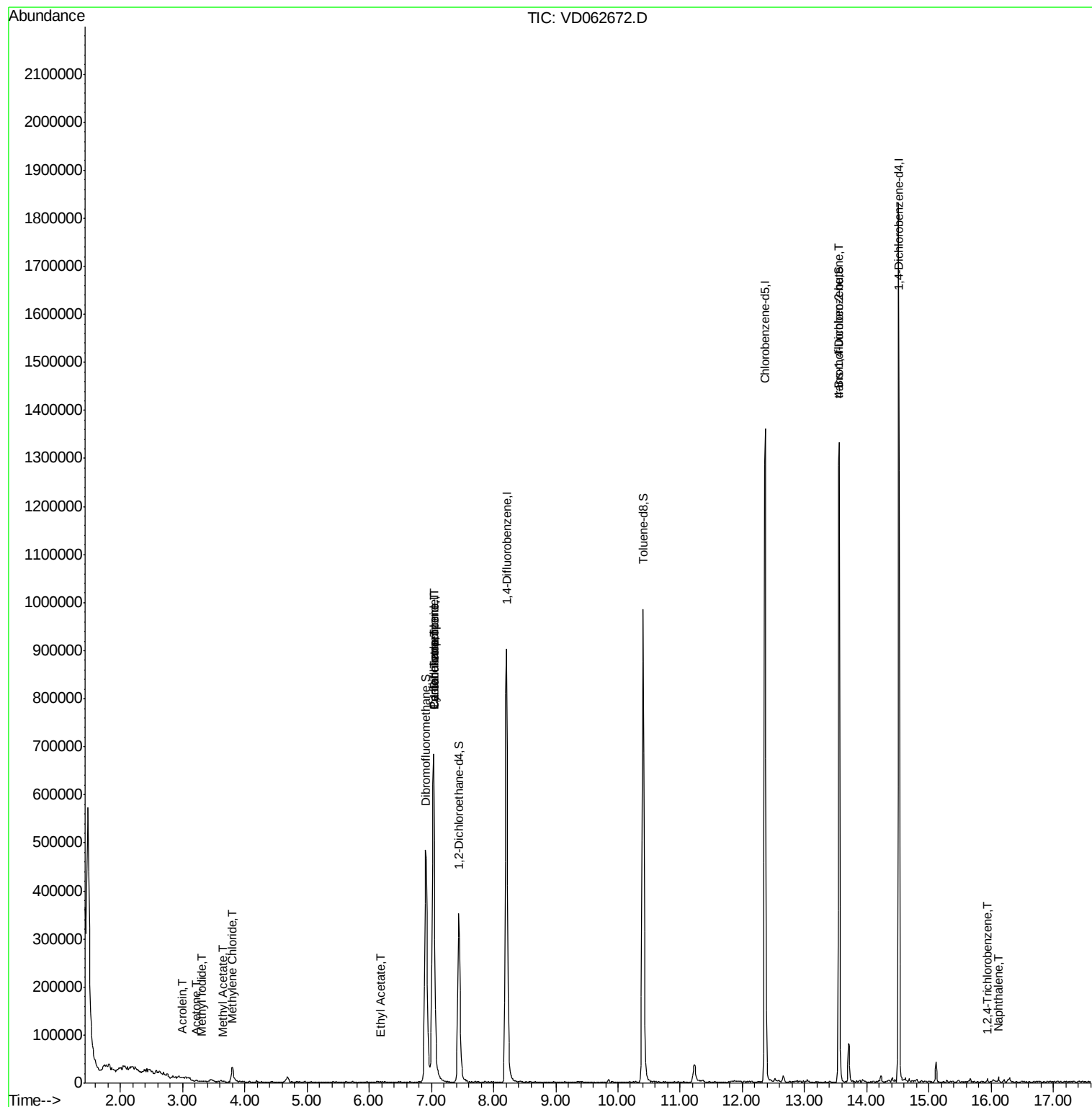
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	462	Below Cal	#	42
10) Methyl Iodide	3.31	142	650	4.061	ug/l #	24
13) Acrolein	3.01	56	182	1.487	ug/l #	12
16) Acetone	3.22	43	5909	3.485	ug/l #	57
18) Methyl Acetate	3.65	43	3903	1.401	ug/l #	64
20) Methylene Chloride	3.80	84	16664	2.179	ug/l #	89
31) Cyclohexane	7.03	56	14921	2.042	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	49853	4.529	ug/l #	52
37) Ethyl Acetate	6.18	43	385	1.281	ug/l #	74
38) Carbon Tetrachloride	7.04	117	66797	3.839	ug/l #	18
81) trans-1,4-Dichloro-2-buten	13.55	75	190991	118.714	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	2572	3.811	ug/l #	52
95) Naphthalene	16.11	128	6010	3.854	ug/l #	79

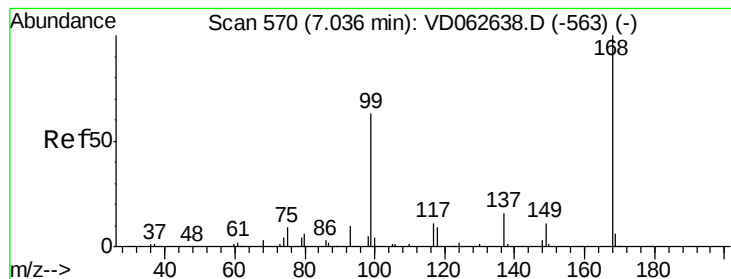
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-4_1.0-1.5_060719

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

Instrument :

MSVOA_D

ClientSampleId :

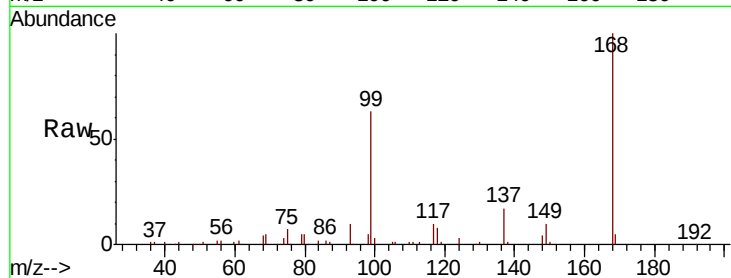
SB-4 1.0-1.5 060719

Tot Ion:168 Resp: 641673

Ion Ratio Lower Upper

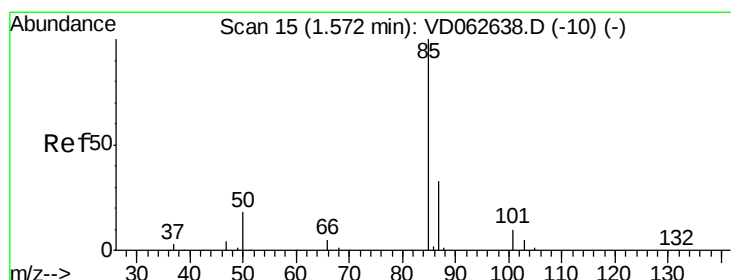
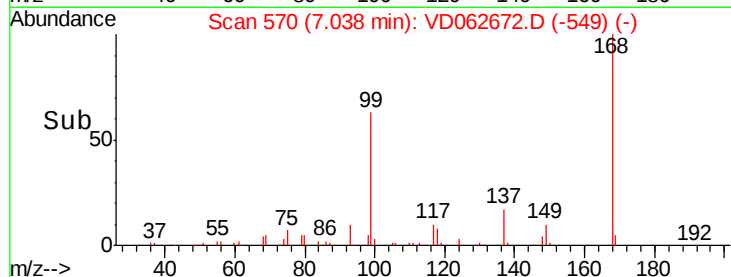
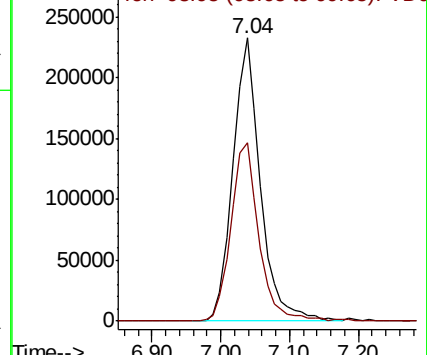
168 100

99 63.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD062672.D

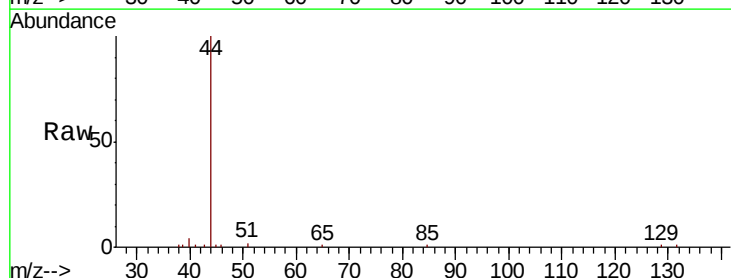
Acq: 12 Jun 2019 14:16

Tgt Ion: 85 Resp: 462

Ion Ratio Lower Upper

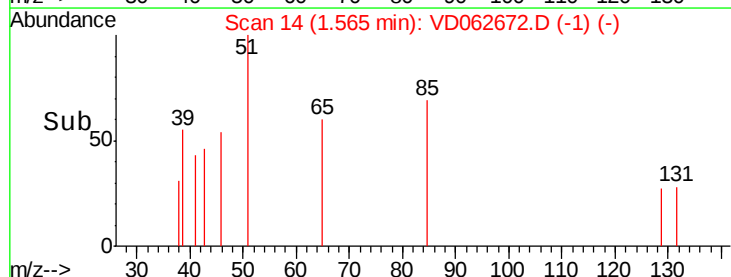
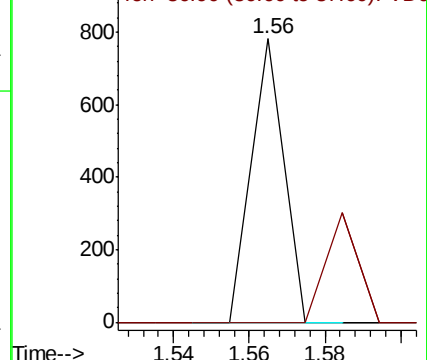
85 100

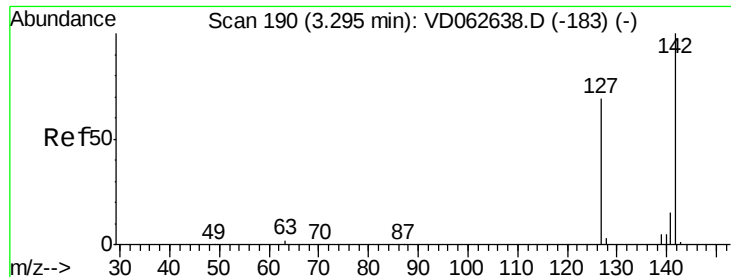
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

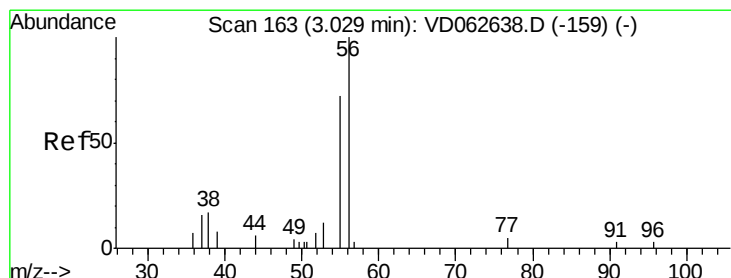
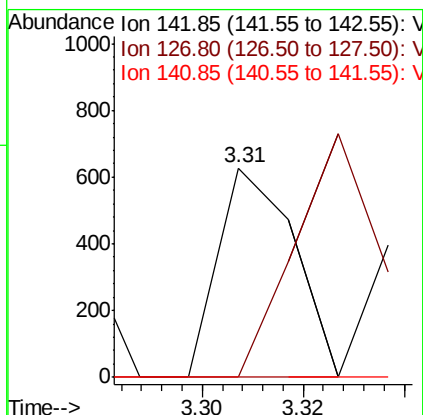
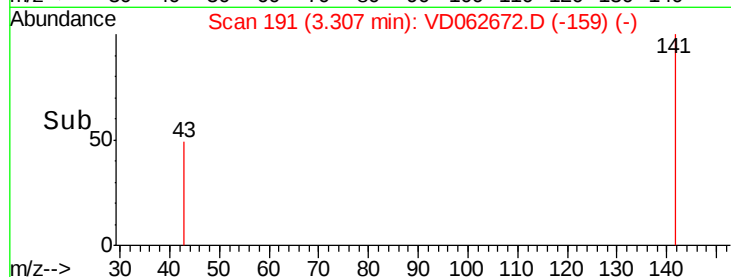
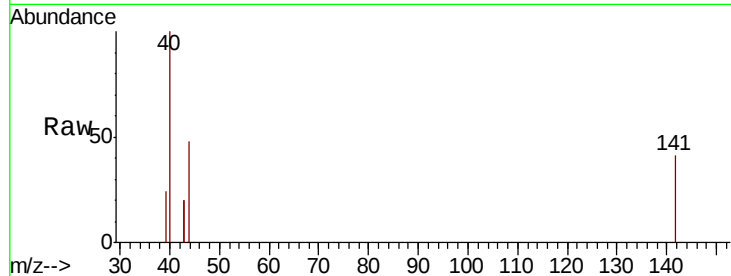




#10
Methvl Iodide
Concen: 4.061 ug/l
RT: 3.31 min Scan# 191
Delta R.T. 0.01 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

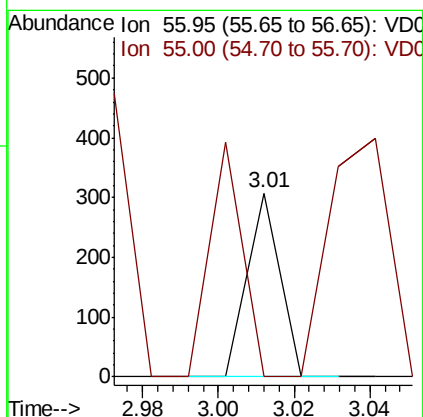
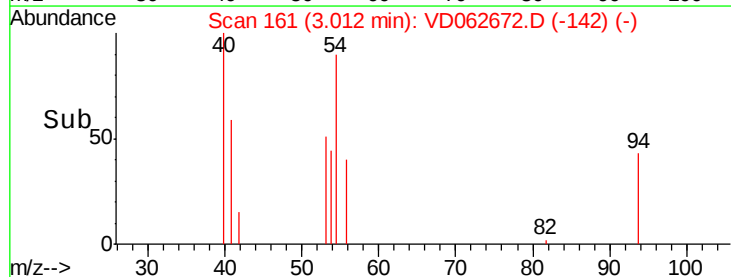
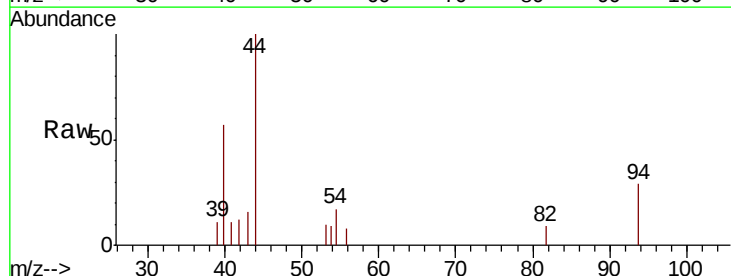
Instrument :
MSVOA_D
ClientSampleId :
SB-4_1.0-1.5_060719

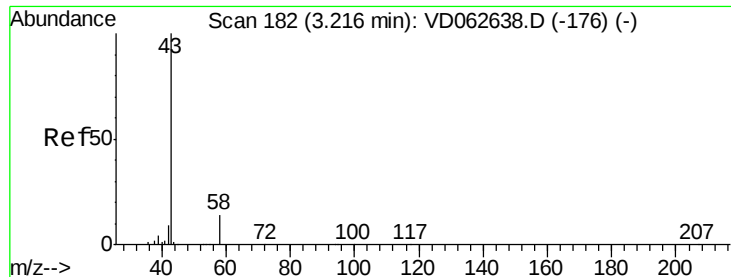
Tot Ion:142 Resp: 650
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#13
Acrolein
Concen: 1.487 ug/l
RT: 3.01 min Scan# 161
Delta R.T. -0.02 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

Tgt Ion: 56 Resp: 182
Ion Ratio Lower Upper
56 100
55 0.0 59.4 89.0#





#16

Acetone

Concen: 3.485 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

Instrument :

MSVOA_D

ClientSampleId :

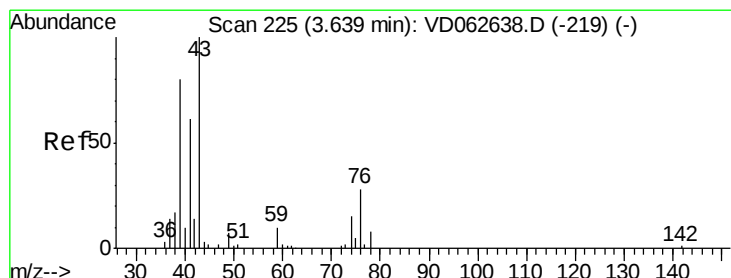
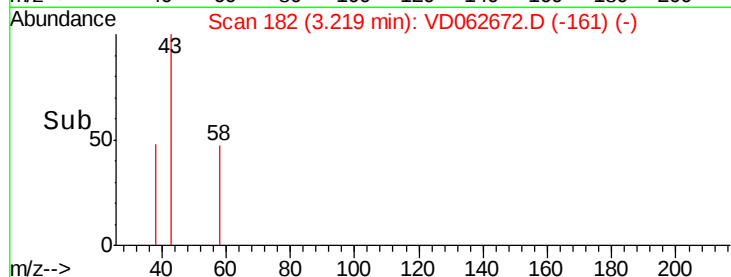
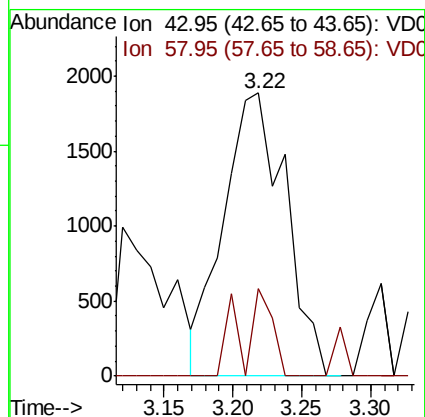
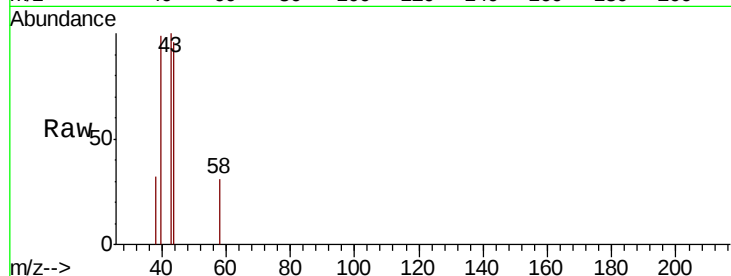
SB-4 1.0-1.5 060719

Tot Ion: 43 Resp: 5909

Ion Ratio Lower Upper

43 100

58 30.8 10.8 16.2#



#18

Methyl Acetate

Concen: 1.401 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD062672.D

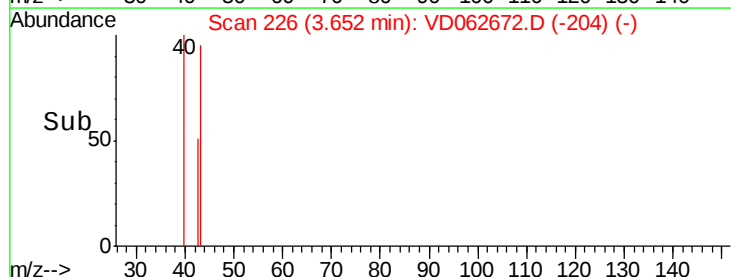
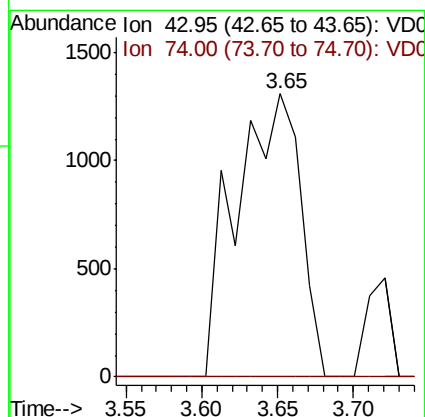
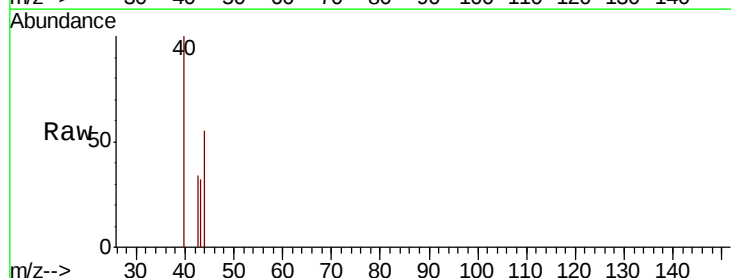
Acq: 12 Jun 2019 14:16

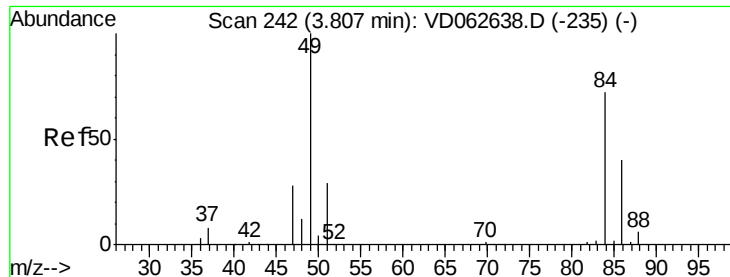
Tgt Ion: 43 Resp: 3903

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#

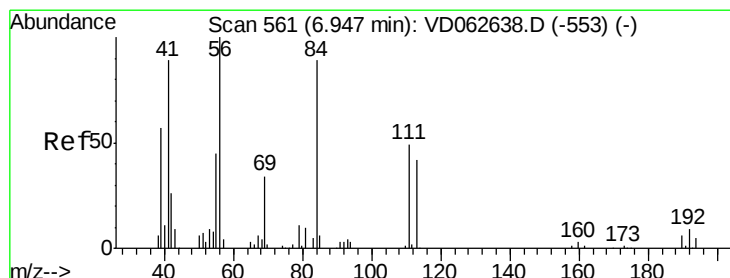
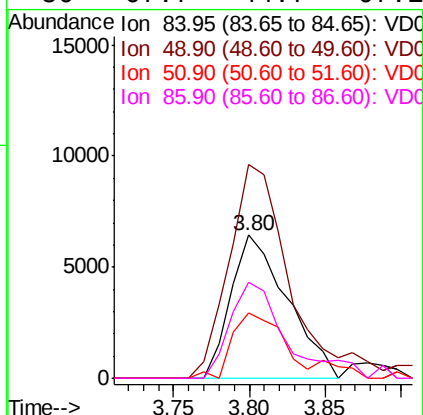
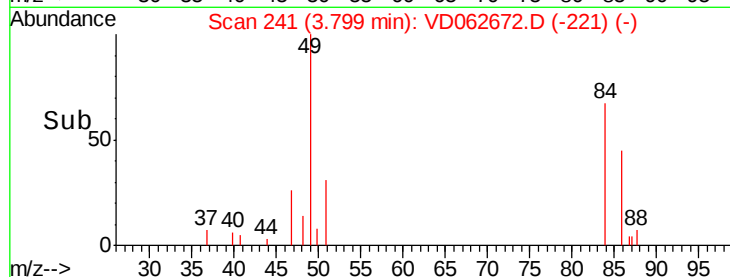
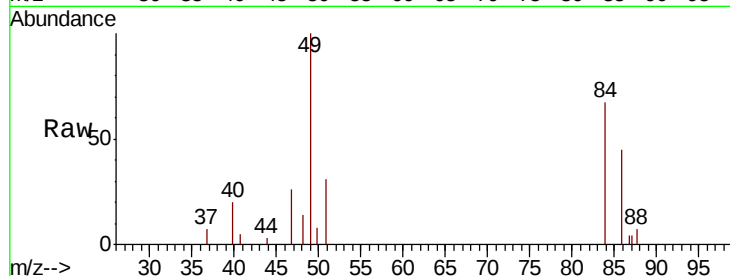




#20
Methylene Chloride
Concen: 2.179 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

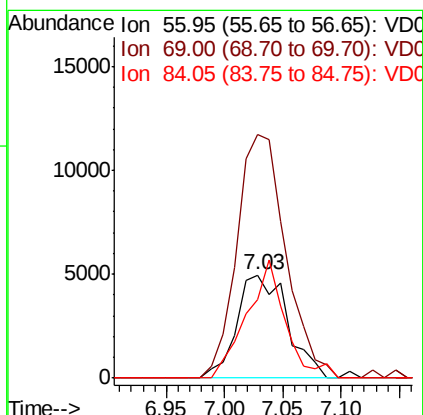
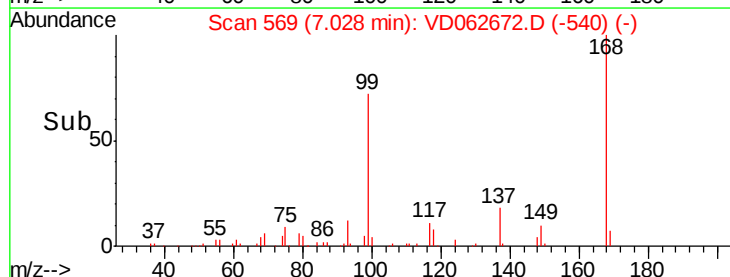
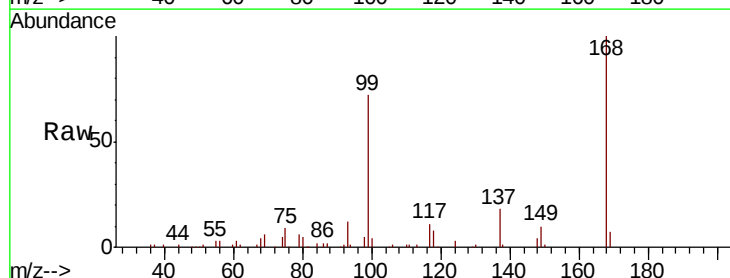
Instrument :
MSVOA_D
ClientSampleId :
SB-4 1.0-1.5 060719

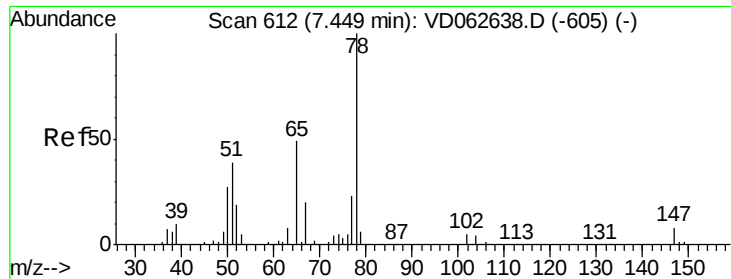
Tot Ion: 84 Resp: 16664
Ion Ratio Lower Upper
84 100
49 149.5 111.2 166.8
51 45.8 31.9 47.9
86 67.7 44.7 67.1#



#31
Cyclohexane
Concen: 2.042 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.08 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

Tgt Ion: 56 Resp: 14921
Ion Ratio Lower Upper
56 100
69 236.0 26.8 40.2#
84 76.3 73.9 110.9





#33

1,2-Dichloroethane-d4

Concen: 45.165 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

Instrument :

MSVOA_D

ClientSampleId :

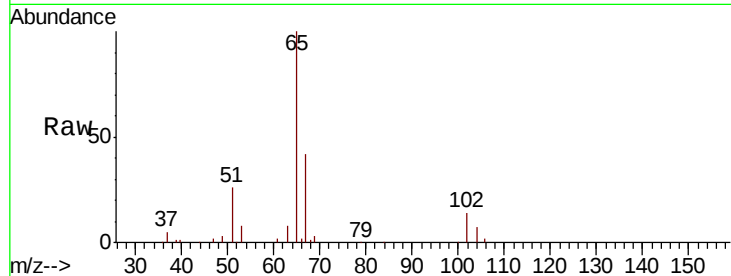
SB-4 1.0-1.5 060719

Tot Ion: 65 Resp: 418198

Ion Ratio Lower Upper

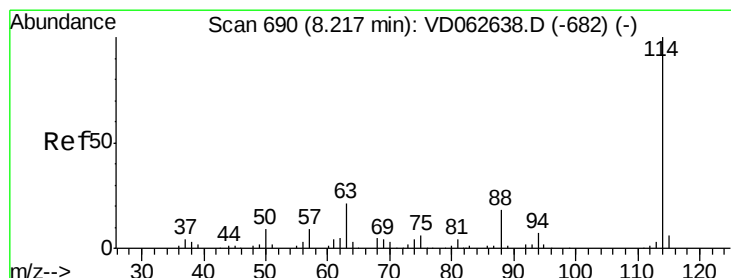
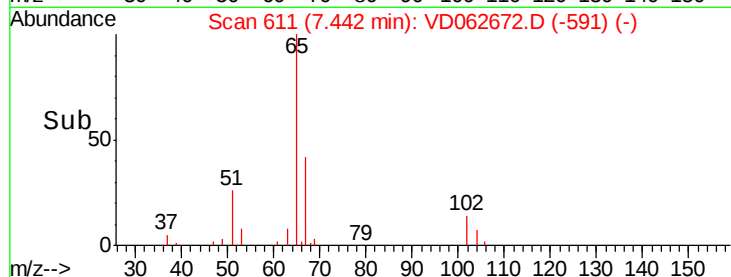
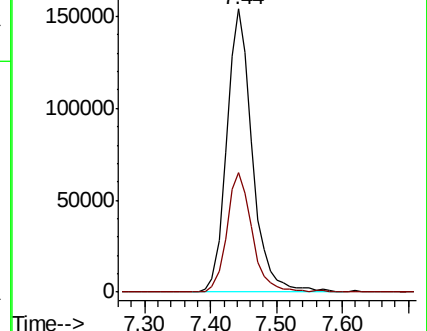
65 100

67 42.3 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. -0.01 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

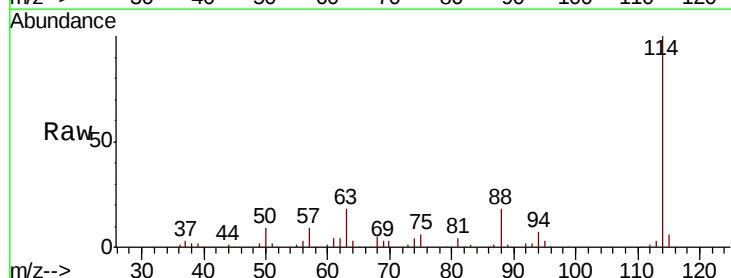
Tgt Ion: 114 Resp: 961837

Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.4

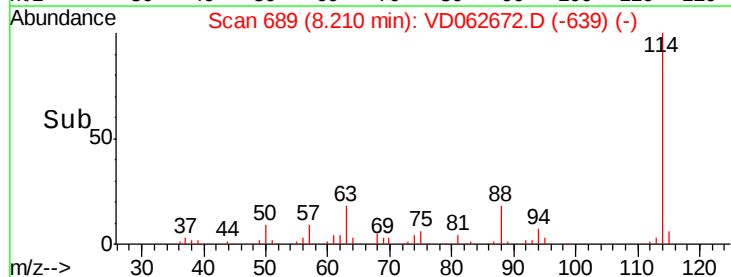
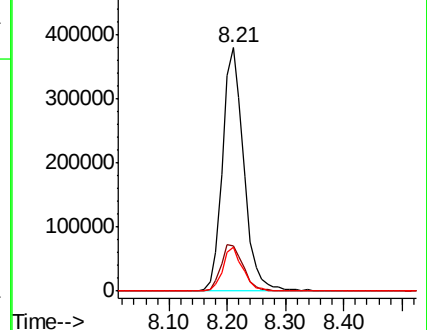
88 17.9 0.0 36.8

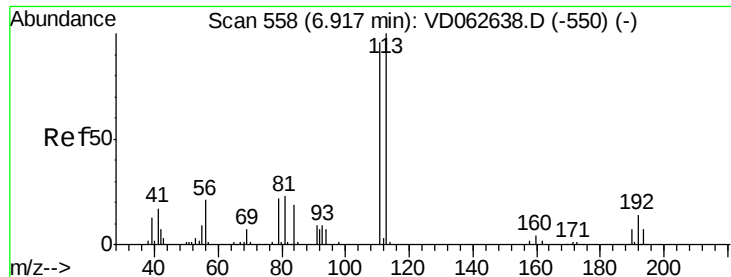


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 43.628 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.01 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

Instrument :

MSVOA_D

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SB-4 1.0-1.5 060719

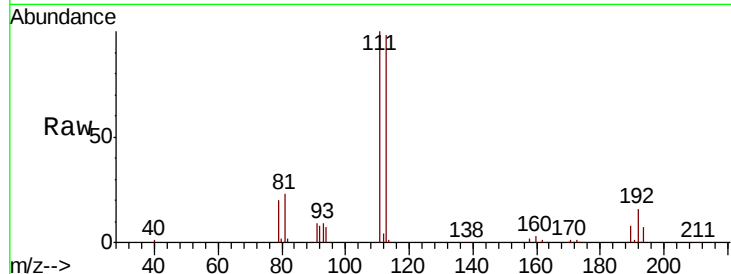
Tot Ion:113 Resp: 442555

Ion Ratio Lower Upper

113 100

111 102.1 76.4 114.6

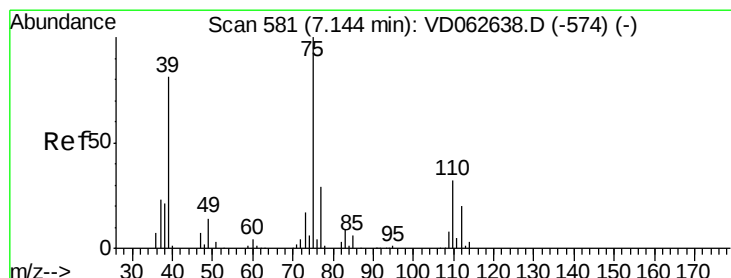
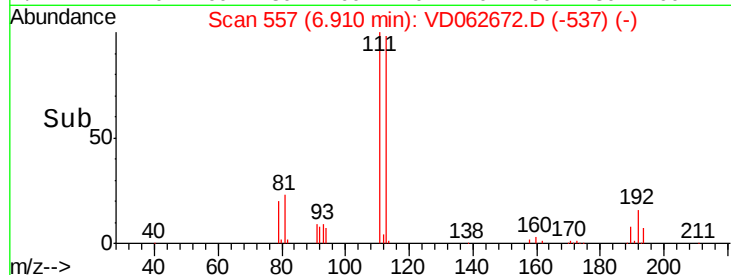
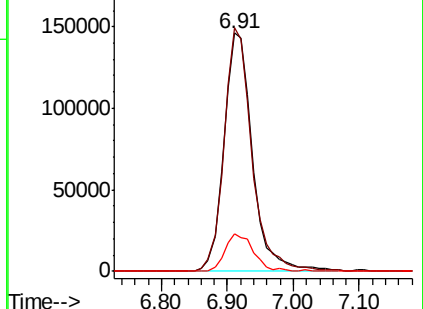
192 16.0 11.4 17.0



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: 4.529 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.12 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

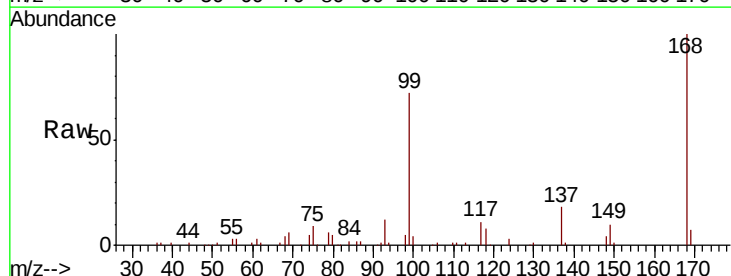
Tgt Ion: 75 Resp: 49853

Ion Ratio Lower Upper

75 100

110 8.0 15.9 47.7#

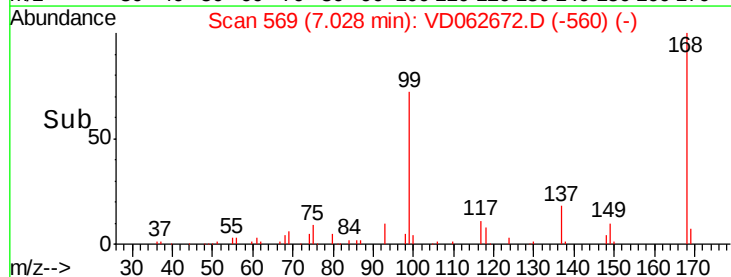
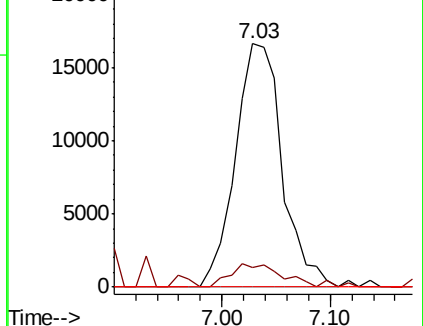
77 0.0 23.3 34.9#

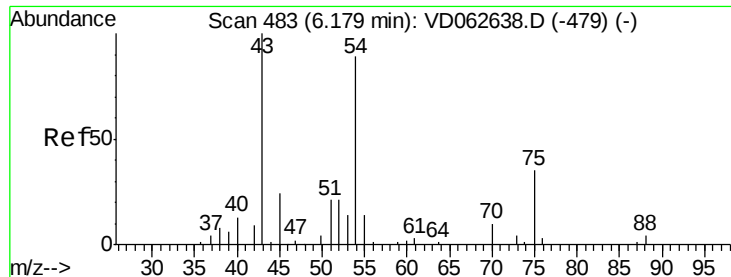


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

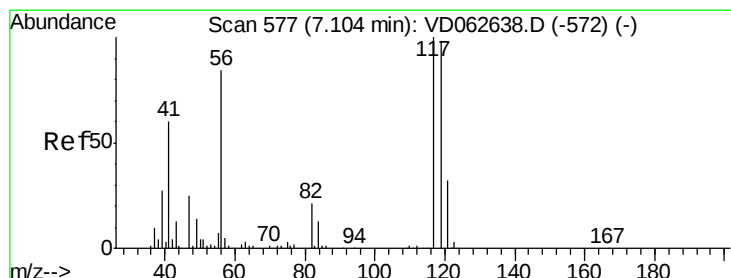
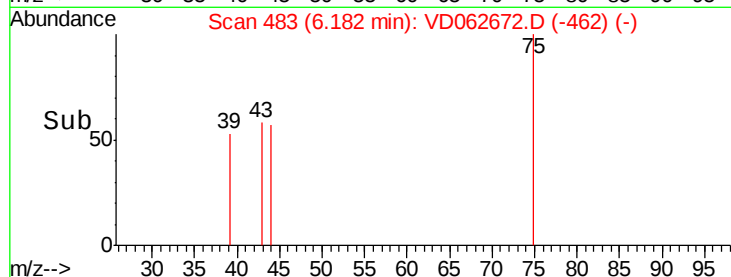
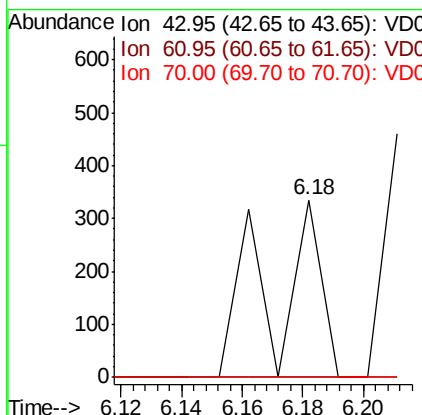
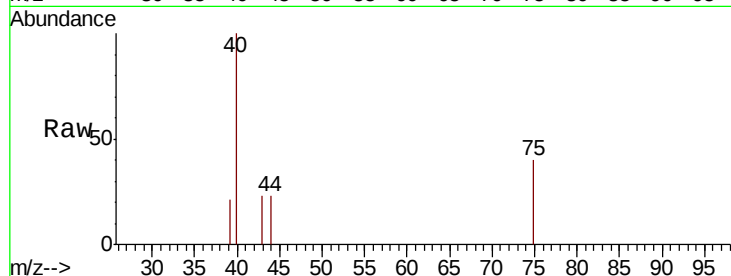




#37
Ethyl Acetate
Concen: 1.281 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

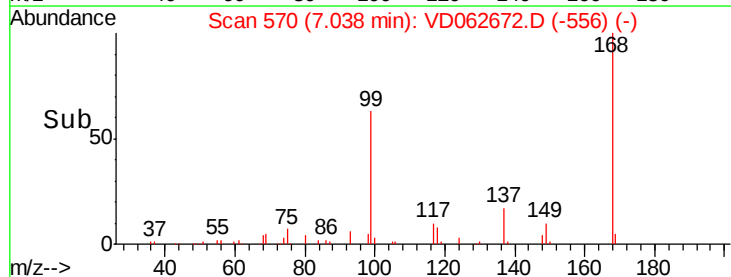
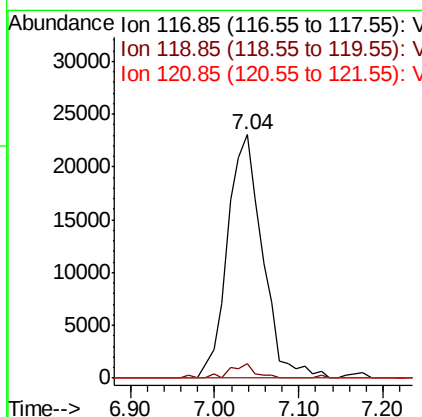
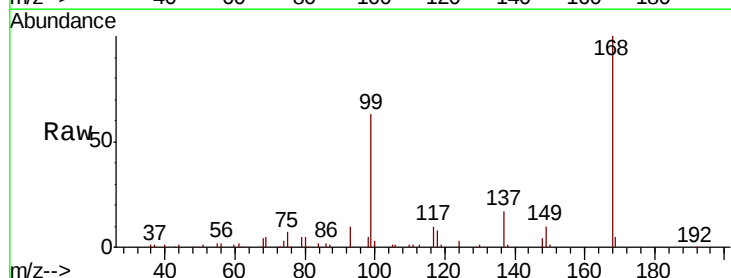
Instrument :
MSVOA_D
ClientSampleId :
SB-4 1.0-1.5 060719

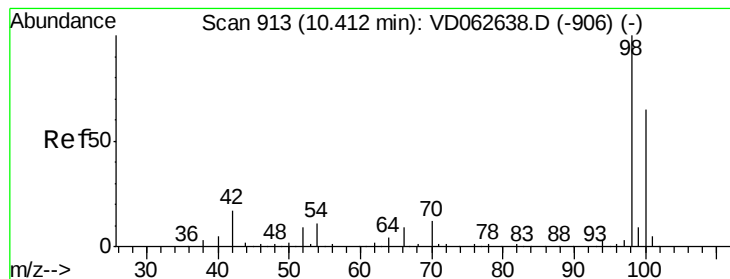
Tot Ion: 43 Resp: 385
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 3.839 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

Tgt Ion: 117 Resp: 66797
Ion Ratio Lower Upper
117 100
119 5.7 73.5 110.3#
121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 37.432 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.01 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

Instrument :

MSVOA_D

ClientSampleId :

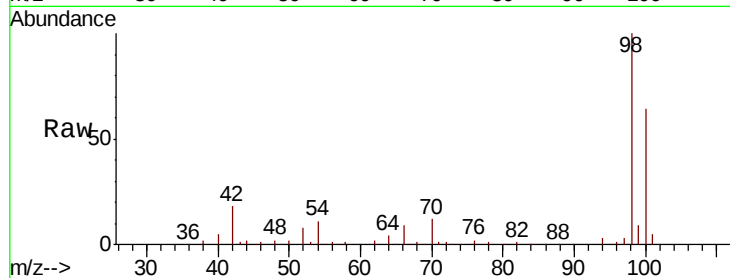
SB-4 1.0-1.5 060719

Tot Ion: 98 Resp: 798758

Ion Ratio Lower Upper

98 100

100 63.9 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VD062638.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD062638.D (-906) (-)

10.40

400000

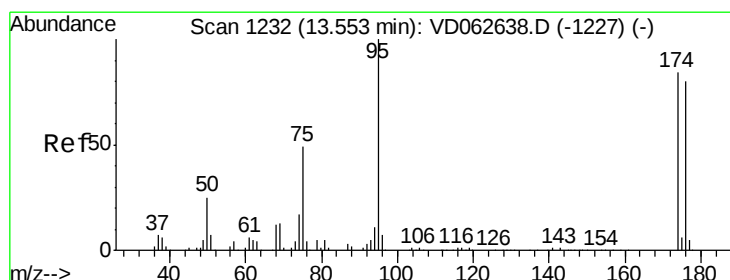
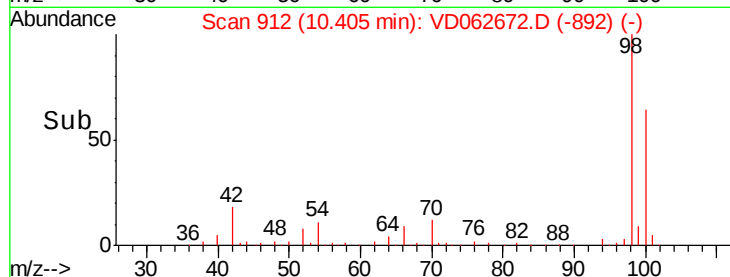
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 40.130 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

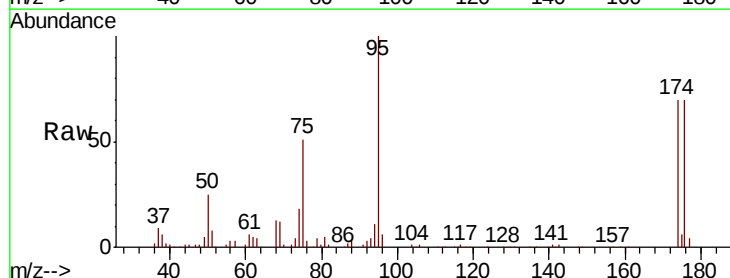
Tgt Ion: 95 Resp: 399511

Ion Ratio Lower Upper

95 100

174 70.4 0.0 167.0

176 69.5 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VD062638.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062638.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062638.D (-1227) (-)

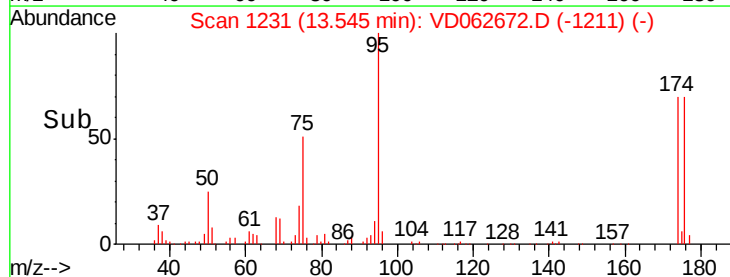
300000

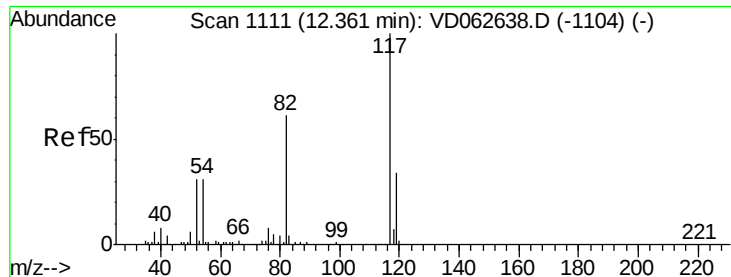
200000

100000

0

Time-->

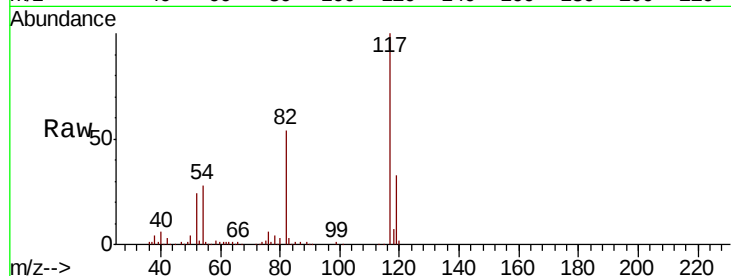




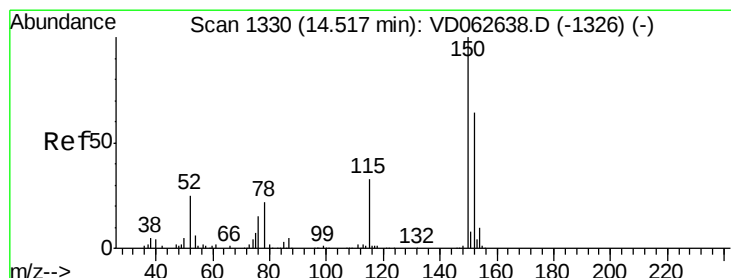
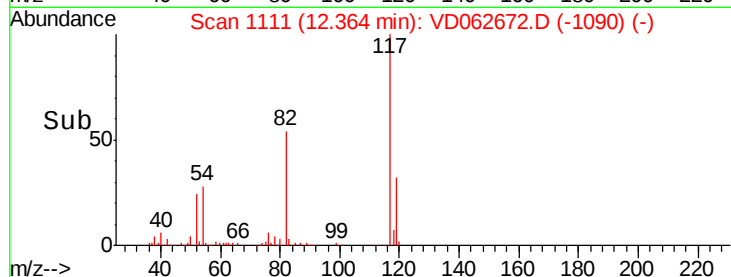
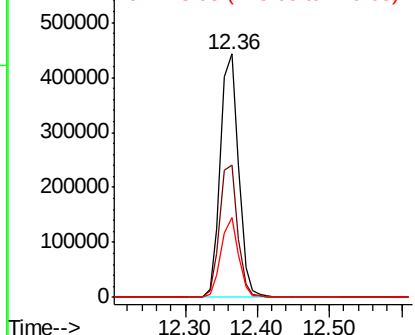
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

Instrument :
MSVOA_D
ClientSampleId :
SB-4 1.0-1.5 060719

Tot Ion:117 Resp: 770528
Ion Ratio Lower Upper
117 100
82 54.4 48.7 73.1
119 32.6 27.0 40.6

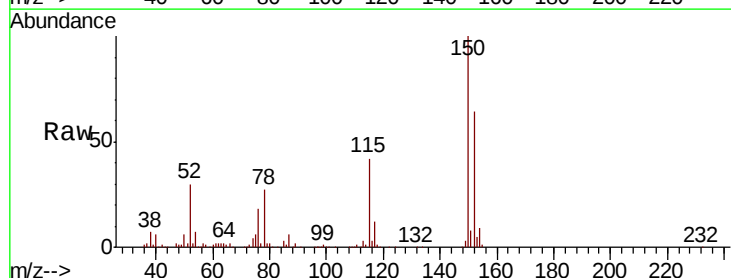


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

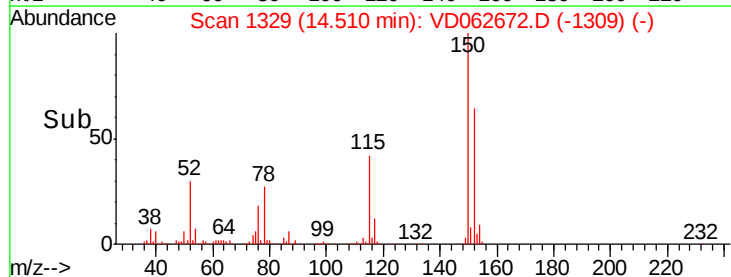
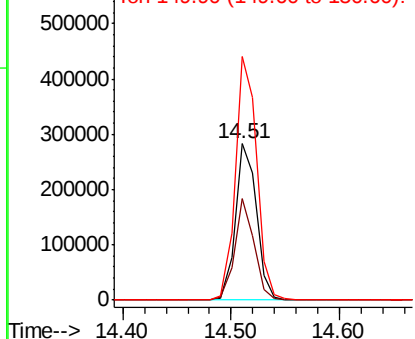


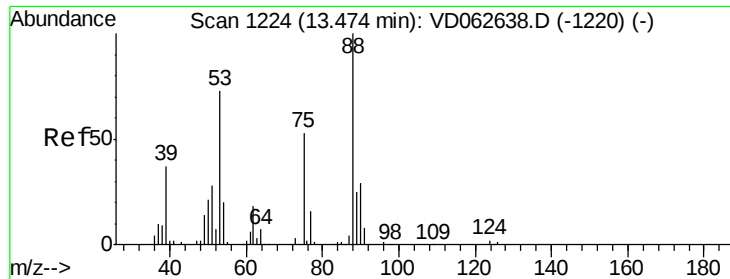
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

Tgt Ion:152 Resp: 381454
Ion Ratio Lower Upper
152 100
115 64.9 30.1 90.5
150 156.1 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: 118.714 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

Instrument :

MSVOA_D

ClientSampleId :

SB-4 1.0-1.5 060719

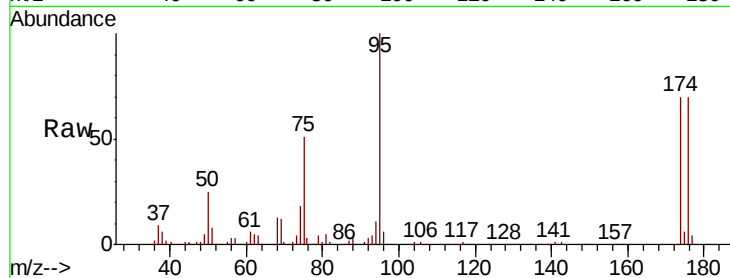
Tot Ion: 75 Resp: 190991

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

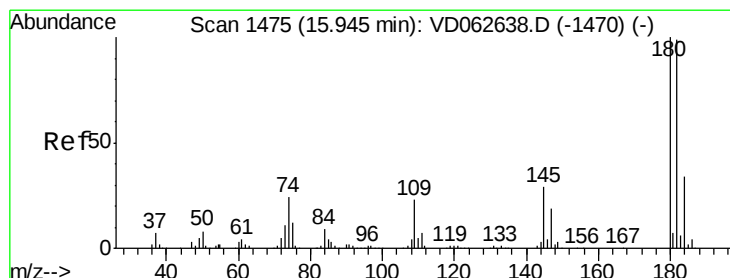
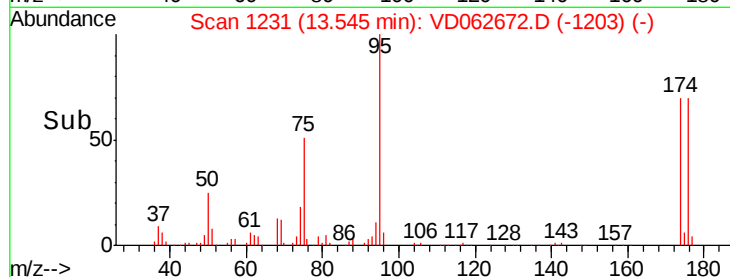
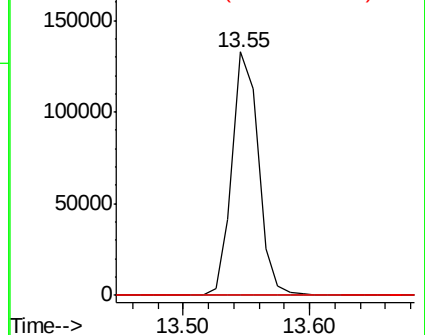
89 0.0 37.0 55.6#



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: 3.811 ug/l

RT: 15.94 min Scan# 1474

Delta R.T. -0.01 min

Lab File: VD062672.D

Acq: 12 Jun 2019 14:16

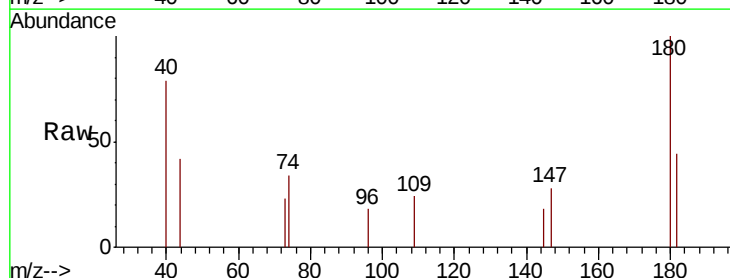
Tgt Ion:180 Resp: 2572

Ion Ratio Lower Upper

180 100

182 43.8 49.4 148.2#

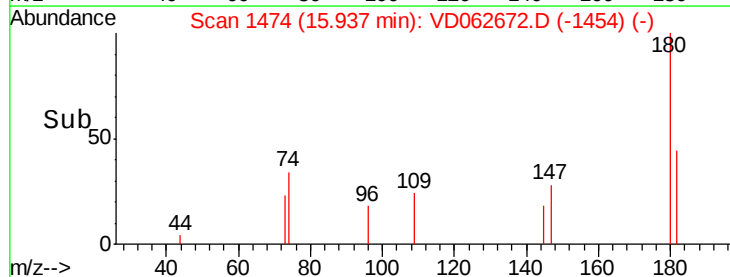
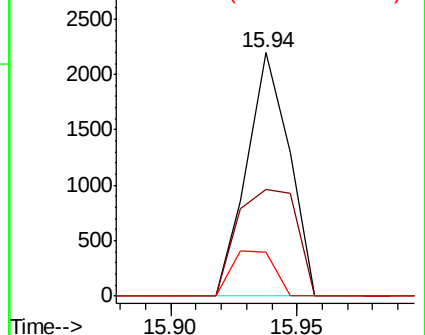
145 18.0 14.5 43.6

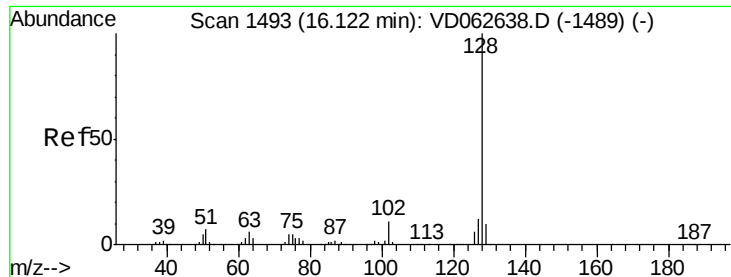


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95
Naphthalene
Concen: 3.854 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD062672.D
Acq: 12 Jun 2019 14:16

Instrument :
MSVOA_D
ClientSampleId :
SB-4_1.0-1.5_060719

Tot Ion:128 Resp: 6010
Ion Ratio Lower Upper
128 100
127 0.0 9.7 14.5#
129 13.1 8.1 12.1#

