

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031819\  
 Data File : VD061151.D  
 Acq On : 18 Mar 2019 17:55  
 Operator : VA/AP  
 Sample : K1935-07  
 Misc : 2.83g/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Mar 19 02:17:37 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      | 7.04  | 168  | 350588   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 552053   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 334821   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 83876    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 144979   | 49.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.36%  |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 231992   | 56.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.26% |          |
| 50) Toluene-d8              | 10.40 | 98   | 417812   | 40.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.22%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 104216   | 26.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 52.22%  |          |

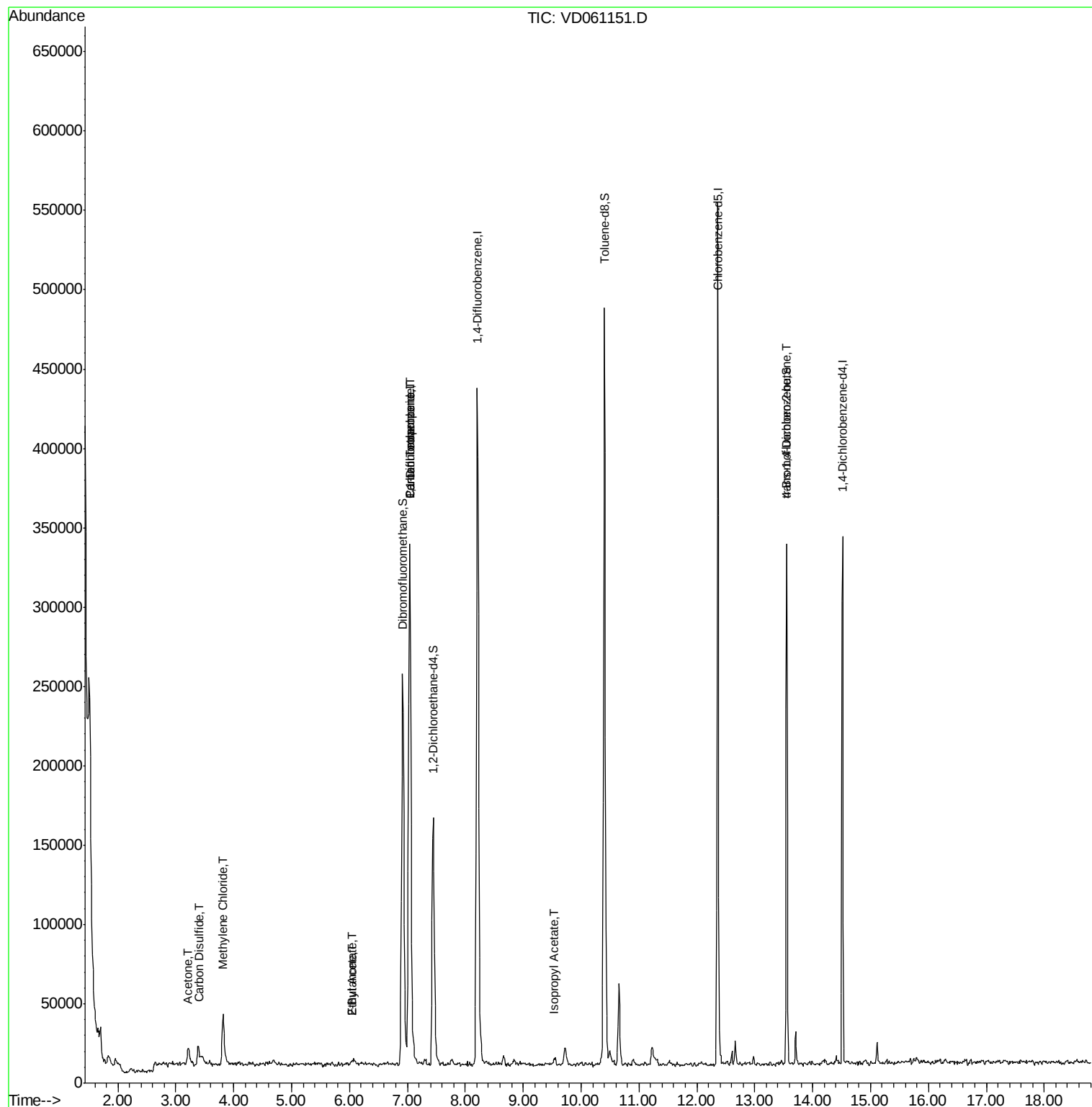
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.19  | 94   | 185      | Below Cal | #      | 8      |
| 16) Acetone                    | 3.21  | 43   | 21142    | 25.335    | ug/l # | 88     |
| 17) Carbon Disulfide           | 3.38  | 76   | 24738    | 2.084     | ug/l   | 96     |
| 20) Methylene Chloride         | 3.82  | 84   | 25514    | 2.252     | ug/l   | 92     |
| 25) 2-Butanone                 | 6.05  | 43   | 6096     | 6.438     | ug/l # | 55     |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 25760    | 5.413     | ug/l # | 47     |
| 37) Ethyl Acetate              | 6.05  | 43   | 6096     | 2.730     | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 33795    | 6.447     | ug/l # | 14     |
| 43) Isopropyl Acetate          | 9.53  | 43   | 3815     | 1.233     | ug/l # | 43     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 39370    | 110.664   | ug/l # | 17     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031819\  
Data File : VD061151.D  
Acq On : 18 Mar 2019 17:55  
Operator : VA/AP  
Sample : K1935-07  
Misc : 2.83g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Mar 19 02:17:37 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: 7.04 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

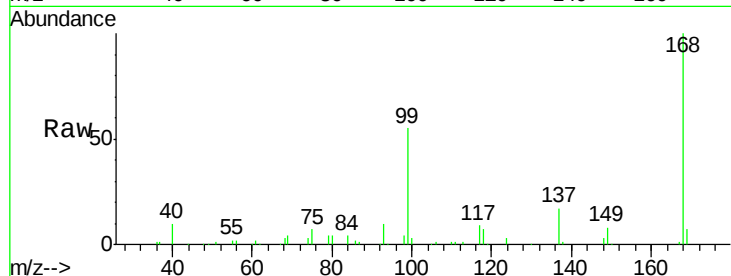
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 350588

Ion Ratio Lower Upper

168 100

99 55.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

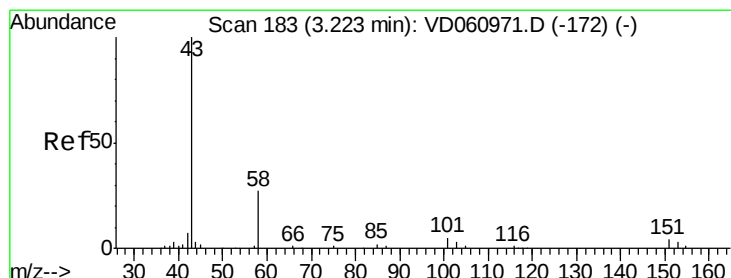
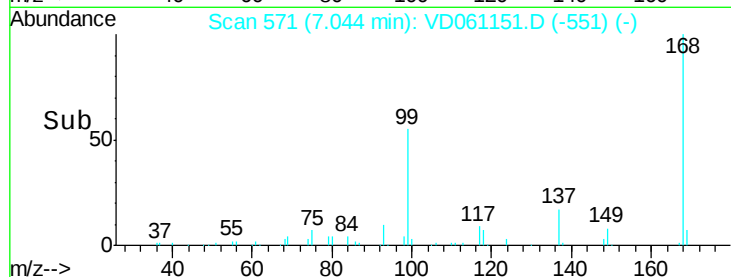
7.04

100000

50000

0

Time-->



#16

Acetone

Concen: 25.335 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061151.D

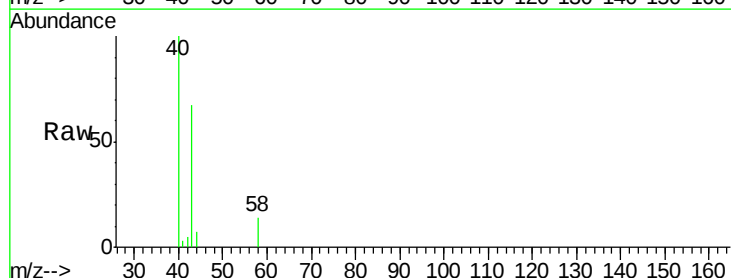
Acq: 18 Mar 2019 17:55

Tgt Ion: 43 Resp: 21142

Ion Ratio Lower Upper

43 100

58 21.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

8000

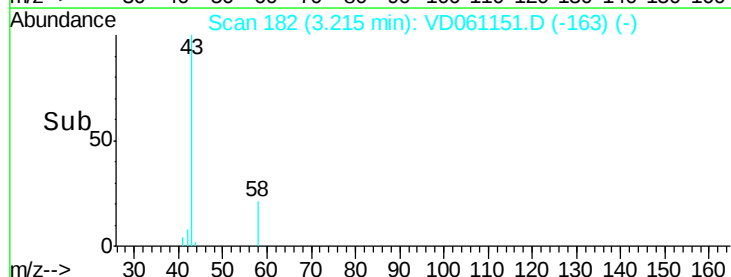
6000

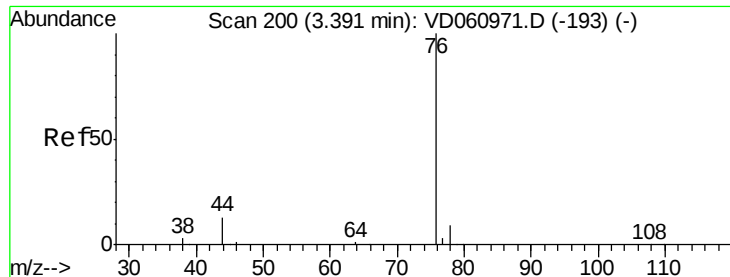
4000

2000

0

Time-->





#17

Carbon Disulfide

Concen: 2.084 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

Instrument :

MSVOA\_D

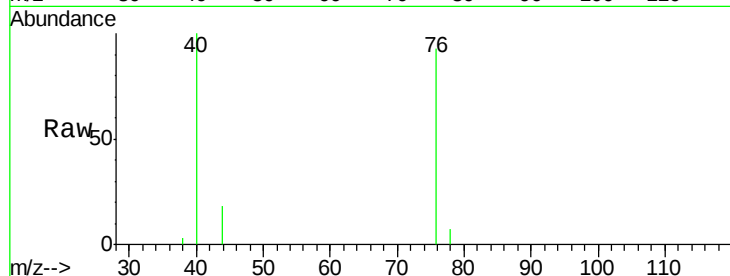
ClientSampleId :

Tot Ion: 76 Resp: 24738

Ion Ratio Lower Upper

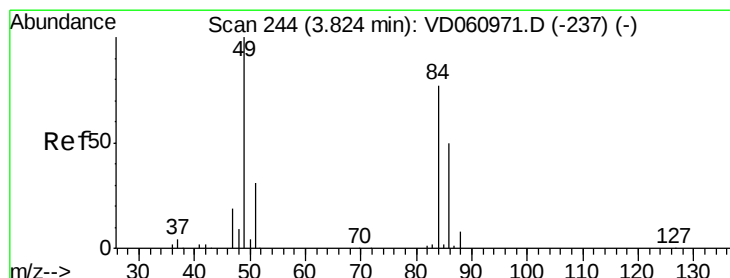
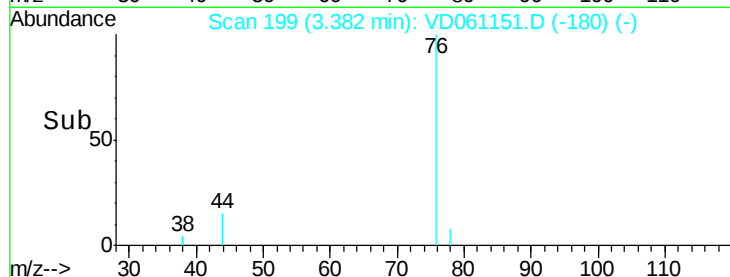
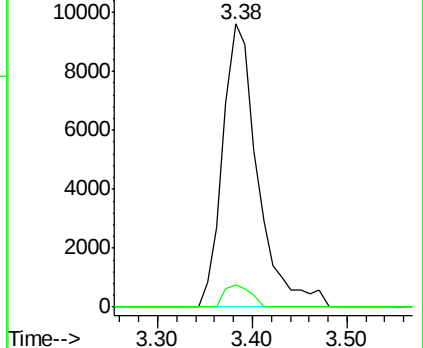
76 100

78 7.7 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 2.252 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

Tgt Ion: 84 Resp: 25514

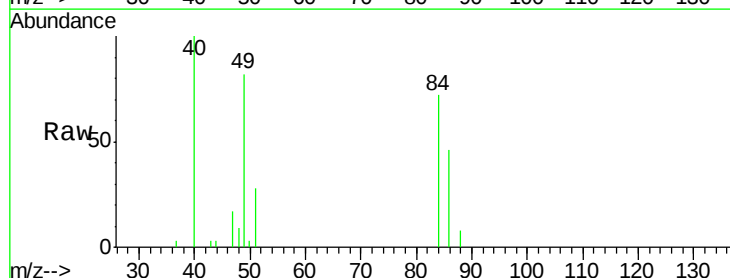
Ion Ratio Lower Upper

84 100

49 114.4 104.2 156.2

51 39.2 32.3 48.5

86 64.4 52.3 78.5

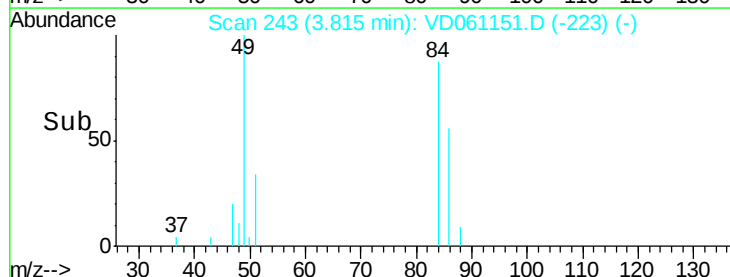
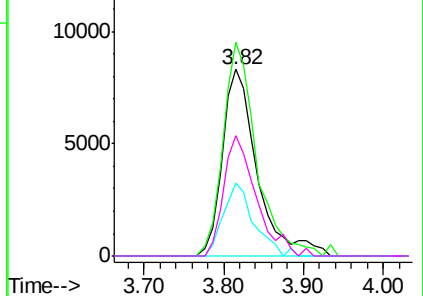


Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#25

2-Butanone

Concen: 6.438 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.02 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

Instrument :

MSVOA\_D

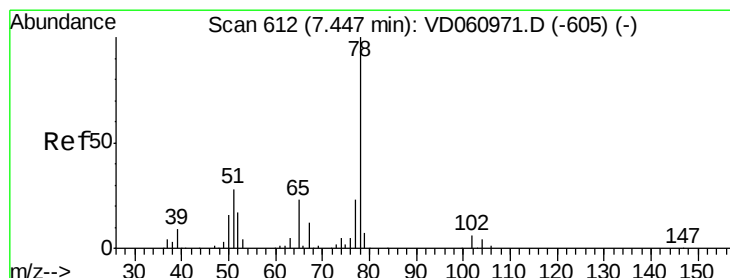
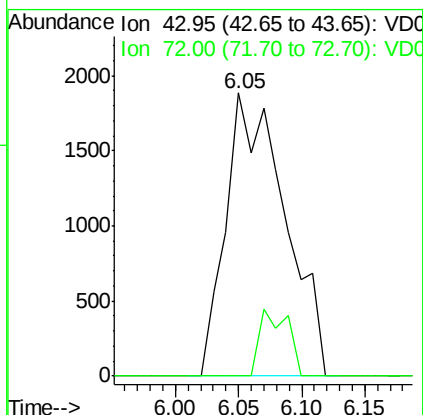
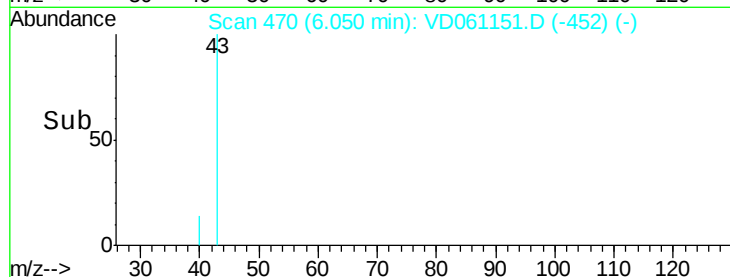
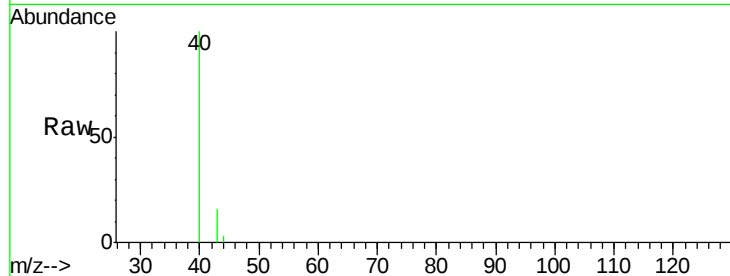
ClientSampleId :

Tot Ion: 43 Resp: 6096

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD061151.D

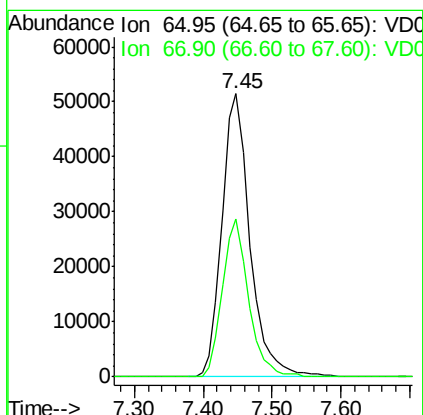
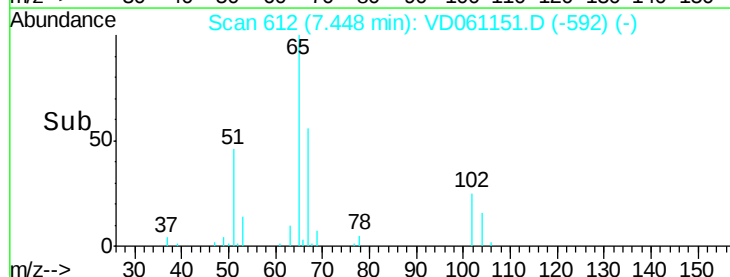
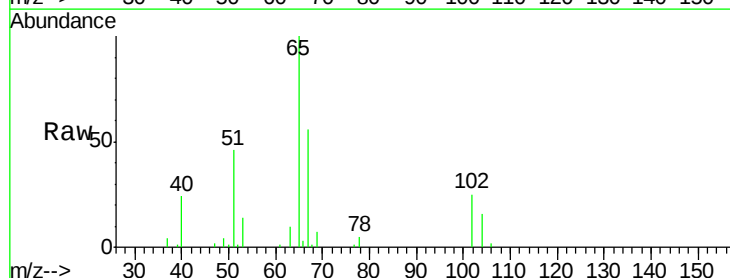
Acq: 18 Mar 2019 17:55

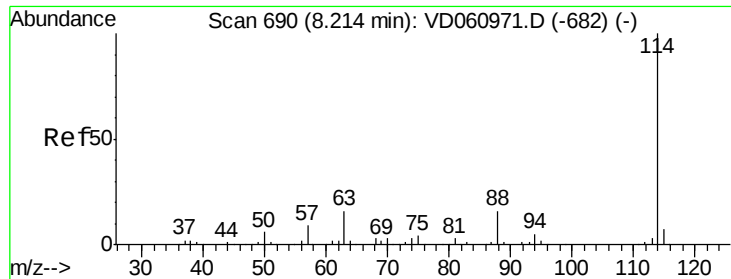
Tgt Ion: 65 Resp: 144979

Ion Ratio Lower Upper

65 100

67 55.6 0.0 105.2

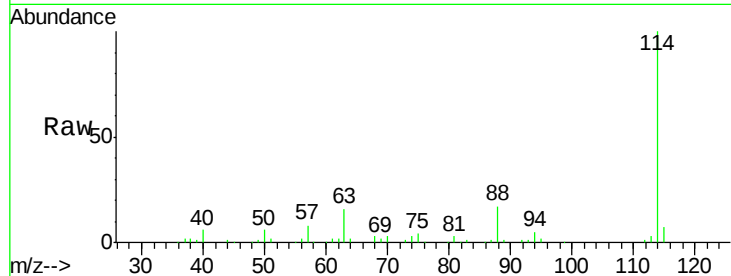




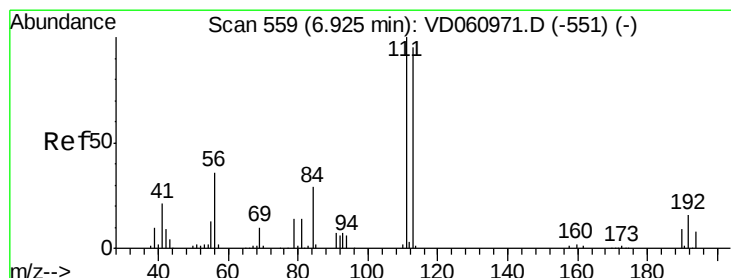
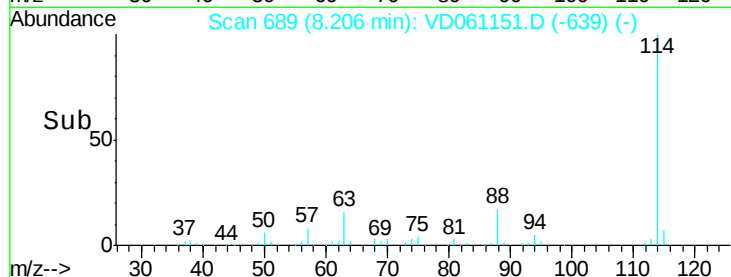
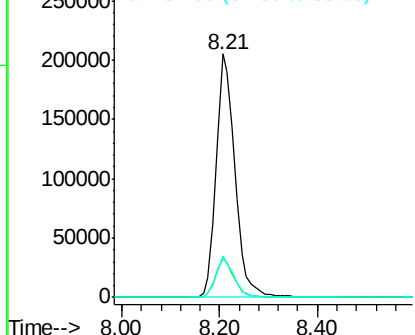
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.21 min Scan# 689  
Delta R.T. -0.01 min  
Lab File: VD061151.D  
Acq: 18 Mar 2019 17:55

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:114 Resp: 552053  
Ion Ratio Lower Upper  
114 100  
63 16.1 0.0 31.4  
88 16.7 0.0 33.0

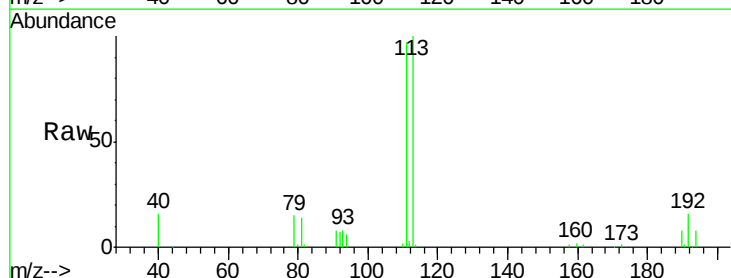


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 62.95 (62.65 to 63.65): V  
Ion 87.90 (87.60 to 88.60): V

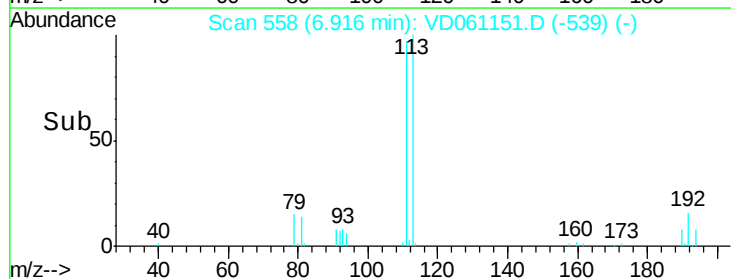
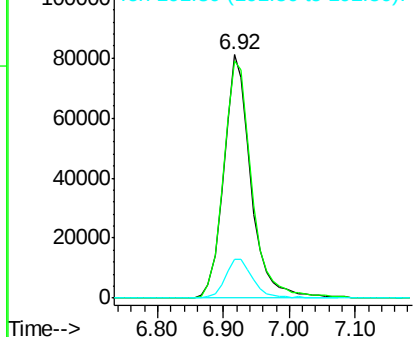


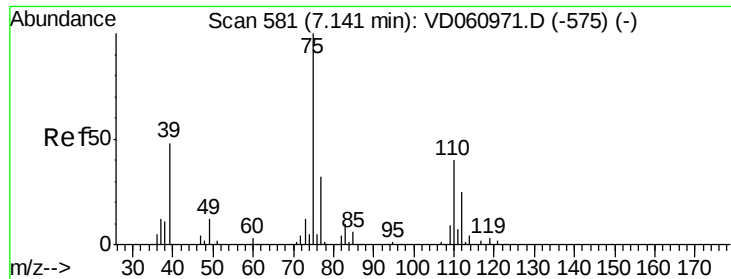
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 6.92 min Scan# 558  
Delta R.T. -0.01 min  
Lab File: VD061151.D  
Acq: 18 Mar 2019 17:55

Tgt Ion:113 Resp: 231992  
Ion Ratio Lower Upper  
113 100  
111 97.4 84.2 126.4  
192 16.1 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: 5.413 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

Instrument :

MSVOA\_D

ClientSampleId :

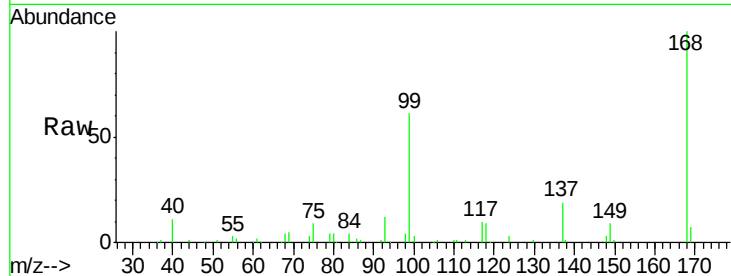
Tot Ion: 75 Resp: 25760

Ion Ratio Lower Upper

75 100

110 8.5 19.7 59.1#

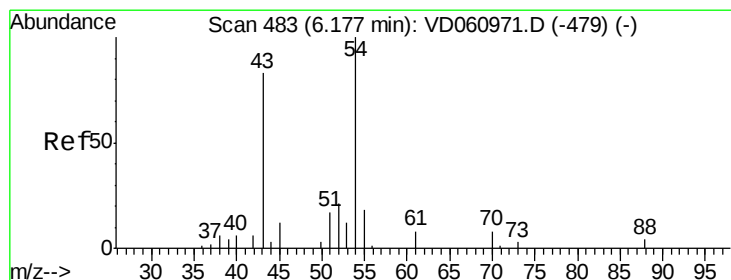
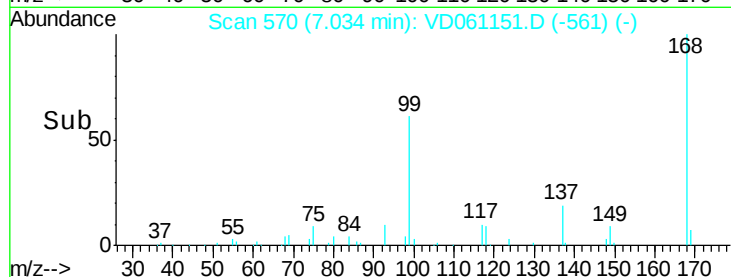
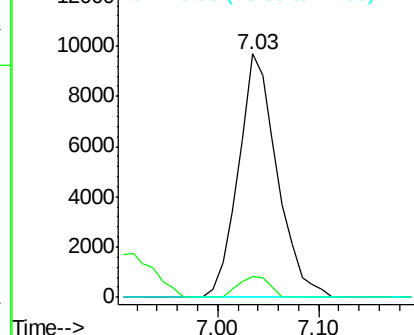
77 0.0 24.7 37.1#



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: 2.730 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.13 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

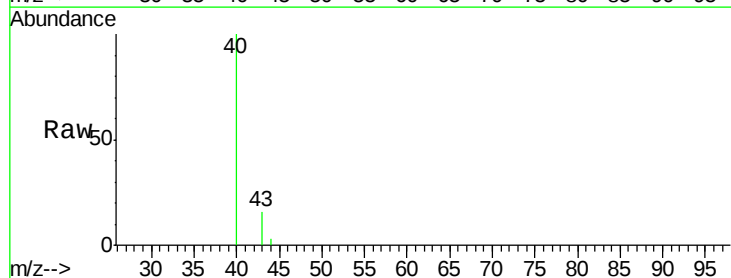
Tgt Ion: 43 Resp: 6096

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

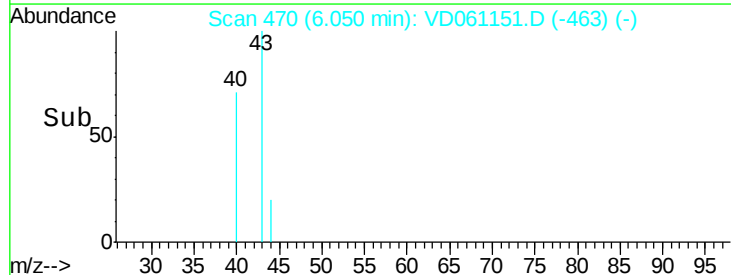
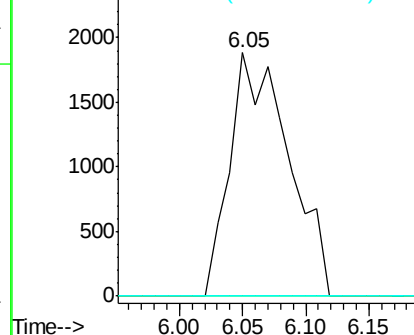
70 0.0 7.1 10.7#

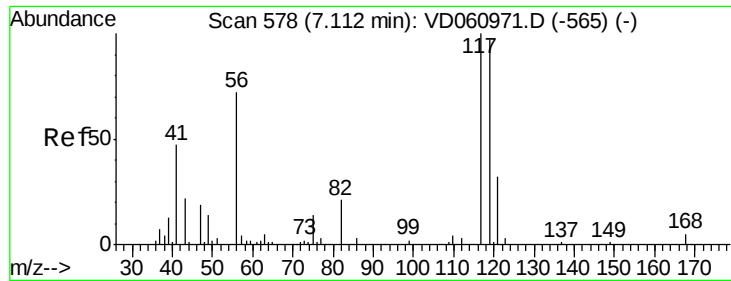


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.447 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

Instrument :

MSVOA\_D

ClientSampled :

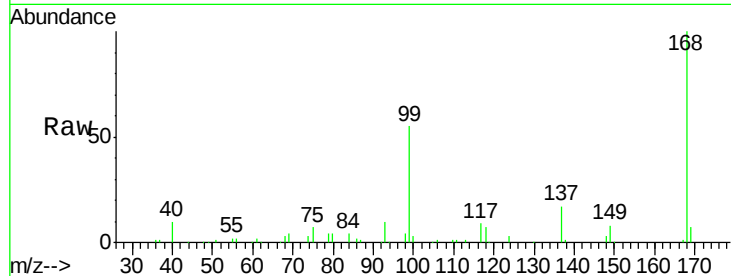
Tot Ion:117 Resp: 33795

Ion Ratio Lower Upper

117 100

119 3.3 77.8 116.8#

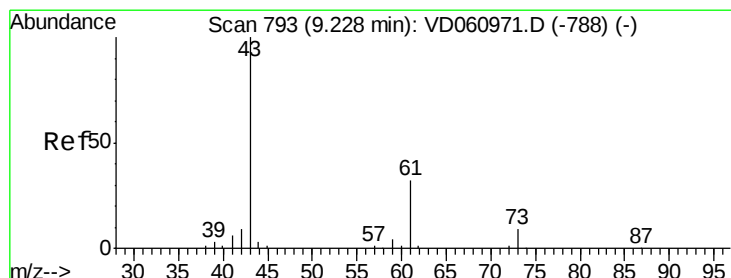
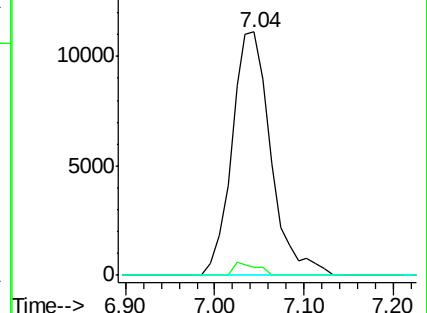
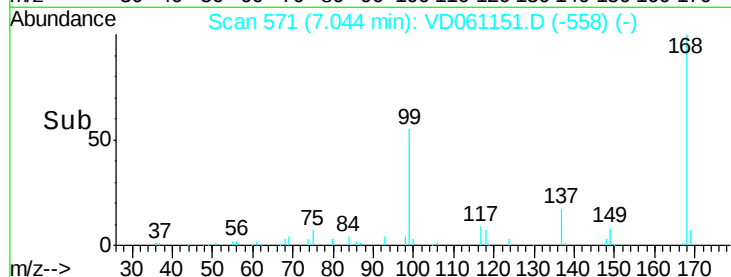
121 0.0 25.3 37.9#



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



#43

Isopropyl Acetate

Concen: 1.233 ug/l

RT: 9.53 min Scan# 824

Delta R.T. 0.31 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

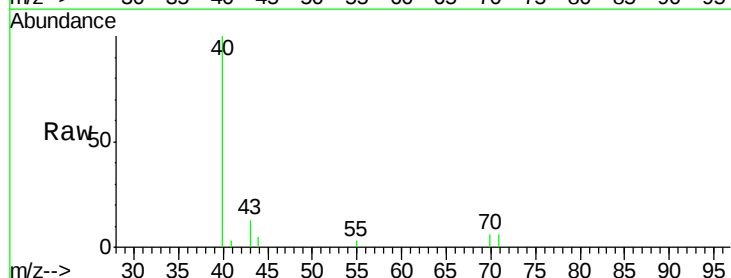
Tgt Ion: 43 Resp: 3815

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

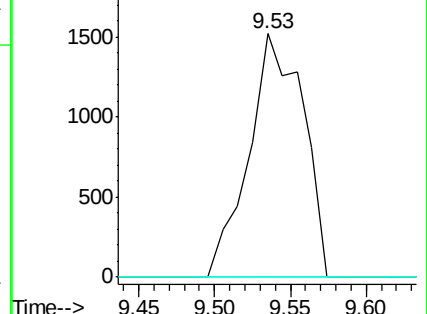
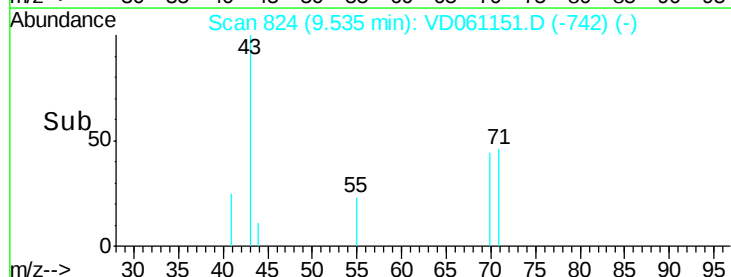
87 0.0 0.2 0.4#

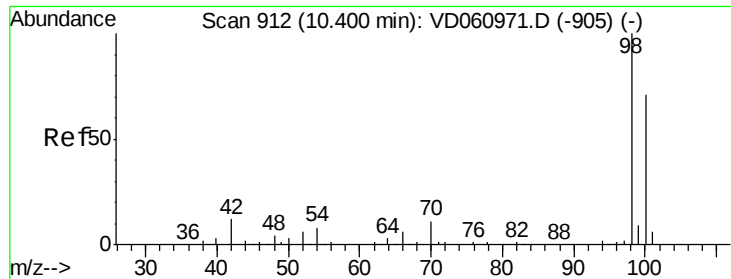


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

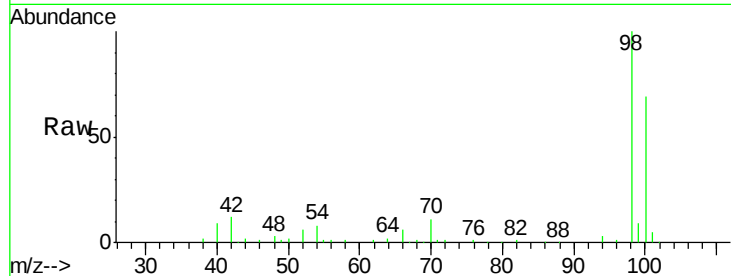
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 98 Resp: 417812

Ion Ratio Lower Upper

98 100

100 68.9 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.40

200000

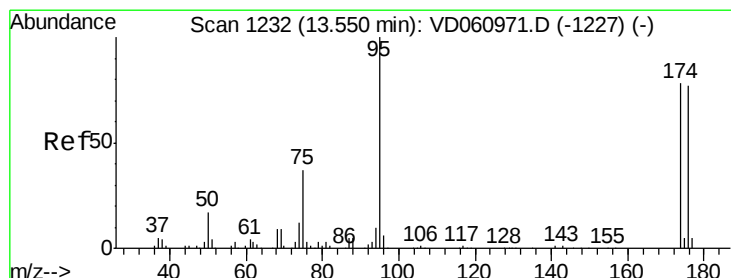
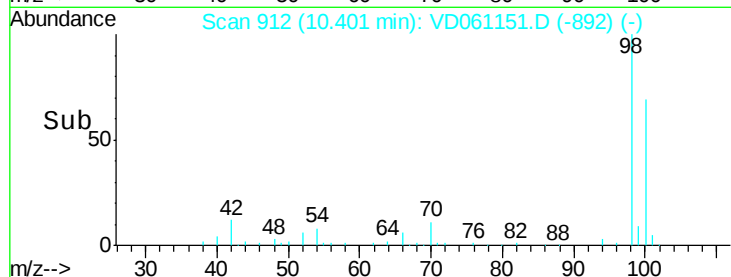
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

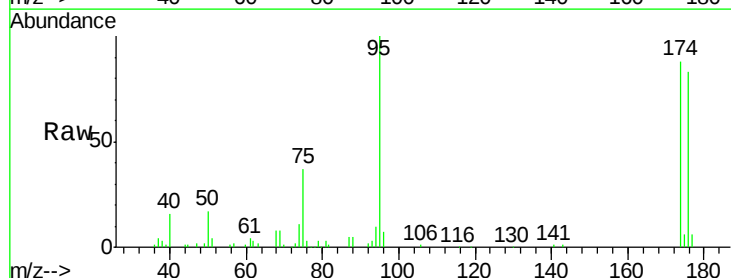
Tgt Ion: 95 Resp: 104216

Ion Ratio Lower Upper

95 100

174 88.0 0.0 155.6

176 83.5 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

100000

80000

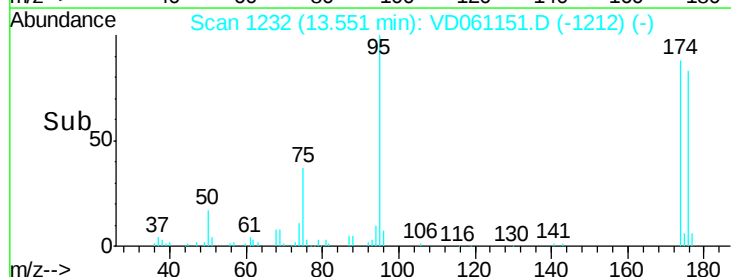
60000

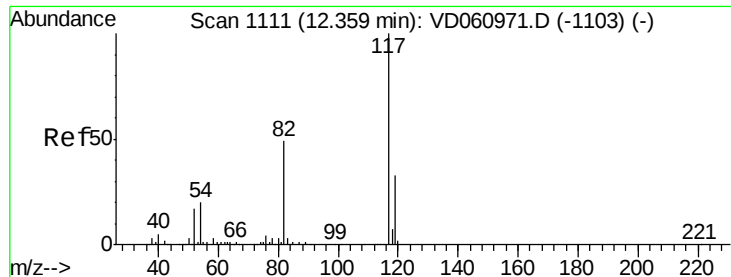
40000

20000

0

Time-->

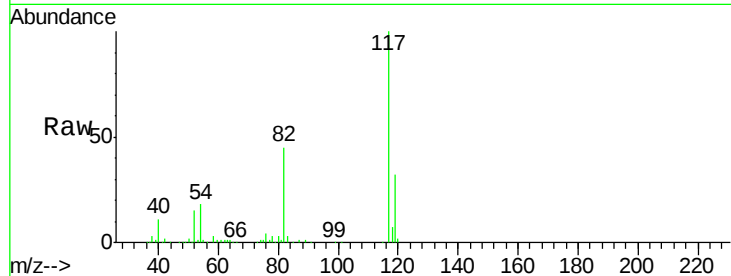




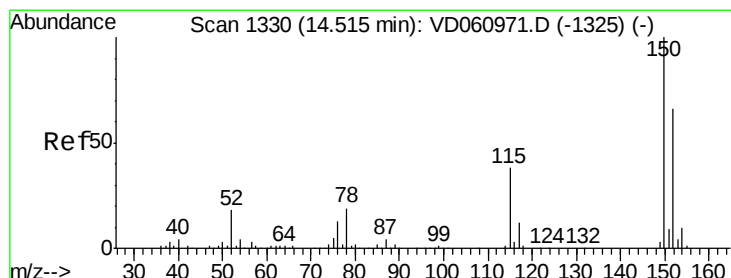
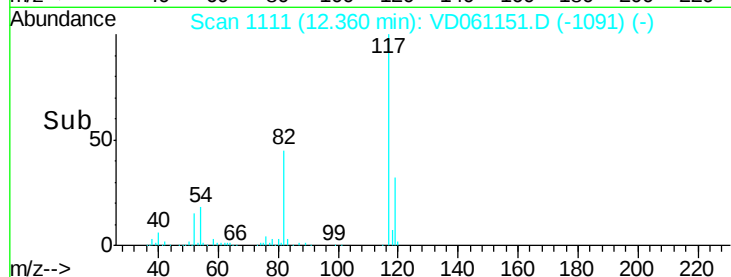
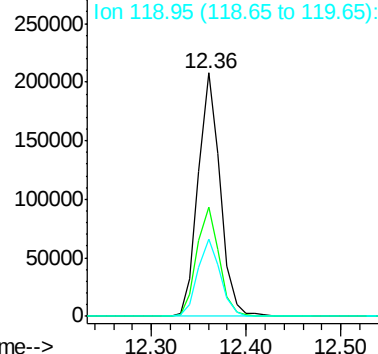
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD061151.D  
Acq: 18 Mar 2019 17:55

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:117 Resp: 334821  
Ion Ratio Lower Upper  
117 100  
82 44.9 38.9 58.3  
119 31.7 26.6 39.8

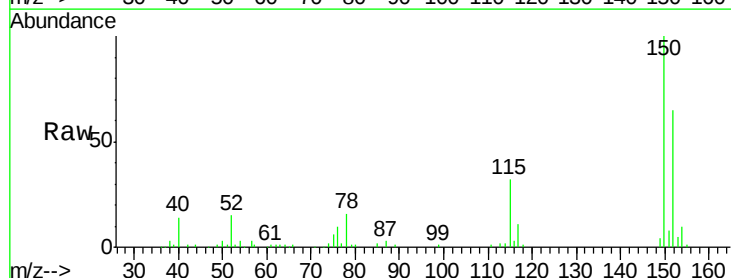


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

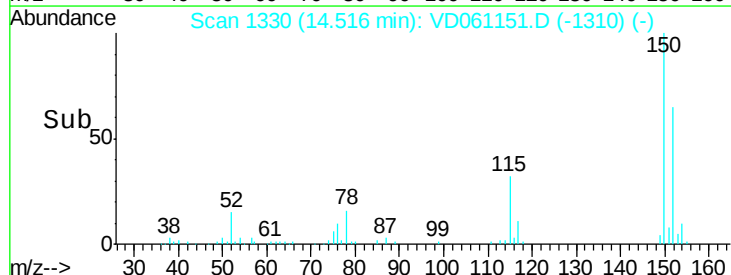
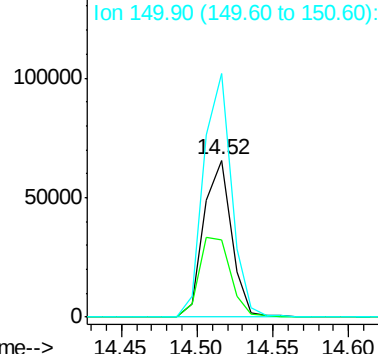


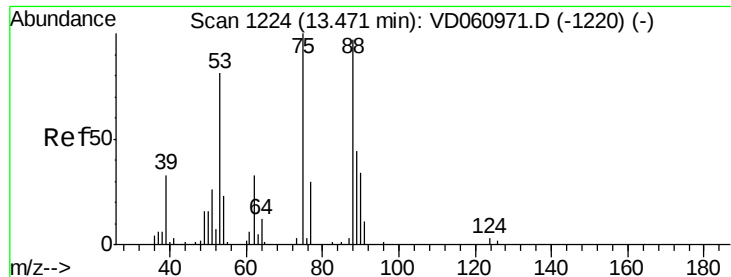
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD061151.D  
Acq: 18 Mar 2019 17:55

Tgt Ion:152 Resp: 83876  
Ion Ratio Lower Upper  
152 100  
115 49.2 28.6 85.9  
150 154.9 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





#81

trans-1,4-Dichloro-2-butene

Concen: 110.664 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061151.D

Acq: 18 Mar 2019 17:55

Instrument :

MSVOA\_D

ClientSampleId :

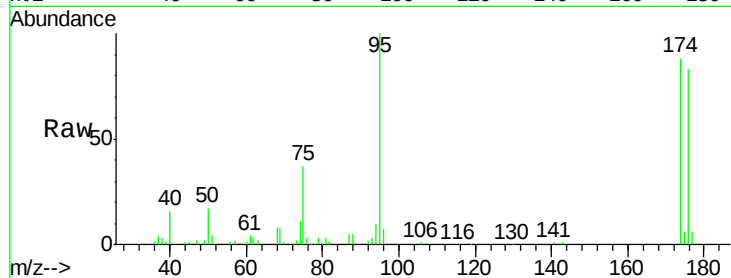
Tot Ion: 75 Resp: 39370

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 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

