

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081319\  
 Data File : VD063535.D  
 Acq On : 13 Aug 2019 18:53  
 Operator : JC/SY  
 Sample : K4319-03  
 Misc : 5.57a/5ml/MSVOA D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 14 08:29:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 1161042  | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 1665181  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 1184059  | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 495842   | 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   | 495076   | 39.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.78% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 563167   | 40.16 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.32% |          |
| 50) Toluene-d8              | 10.42 | 98   | 1115938  | 36.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 72.38% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 432639   | 30.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.92% |          |

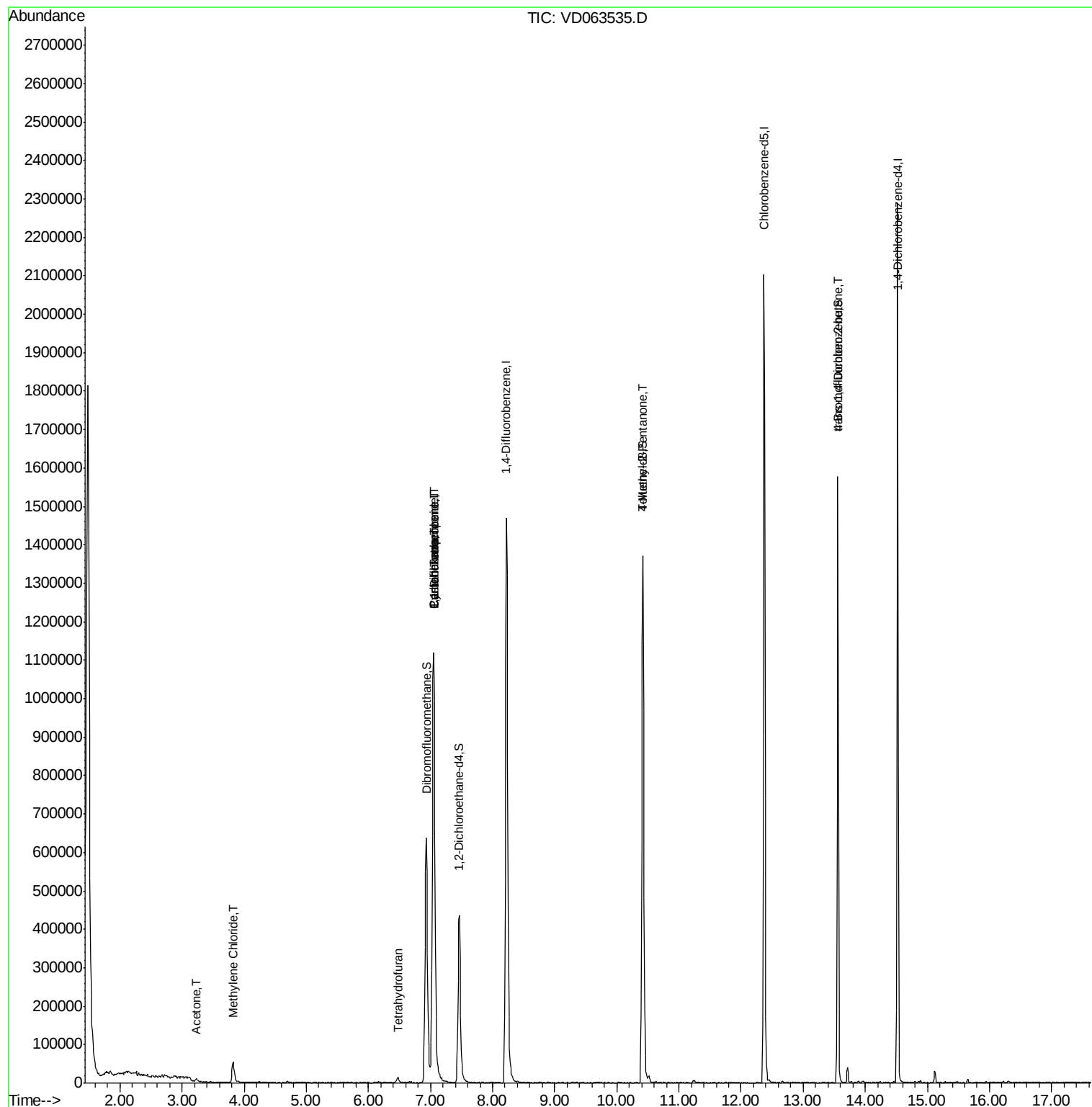
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 3.23  | 43   | 18397    | 7.292   | ug/l   | 94     |
| 20) Methylene Chloride         | 3.82  | 84   | 34612    | 3.173   | ug/l   | 95     |
| 29) Tetrahydrofuran            | 6.47  | 42   | 9289     | 8.001   | ug/l # | 83     |
| 31) Cyclohexane                | 7.05  | 56   | 24176    | 2.157   | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 90284    | 6.133   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 111756   | 5.037   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.41 | 43   | 6744     | 1.193   | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 195841   | 128.043 | ug/l # | 1      |

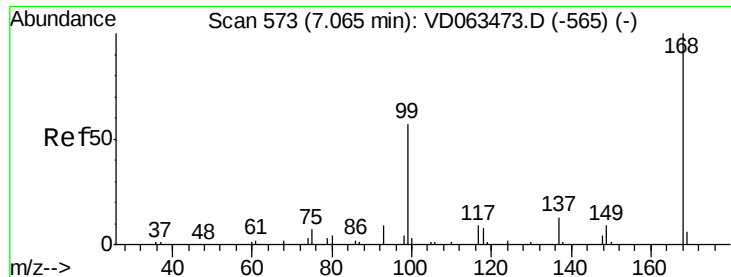
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081319\  
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Sample : K4319-03  
Misc : 5.57g/5ml/MSVOA D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 14 08:29:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 10 06:42:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD063535.D

Acq: 13 Aug 2019 18:53

Instrument :

MSVOA\_D

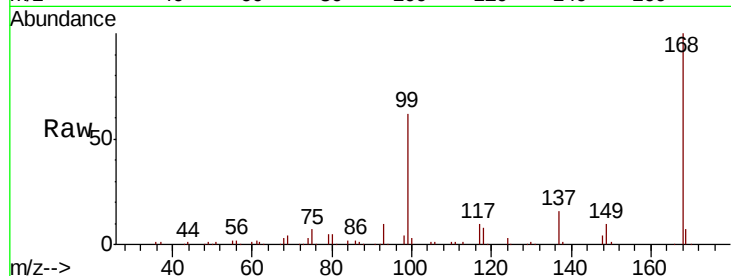
ClientSampleId :

Tot Ion:168 Resp: 1161042

Ion Ratio Lower Upper

168 100

99 62.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

400000

300000

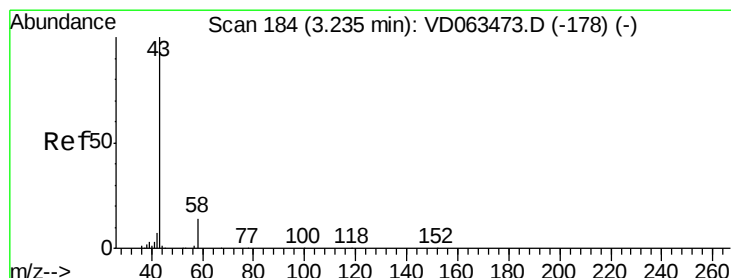
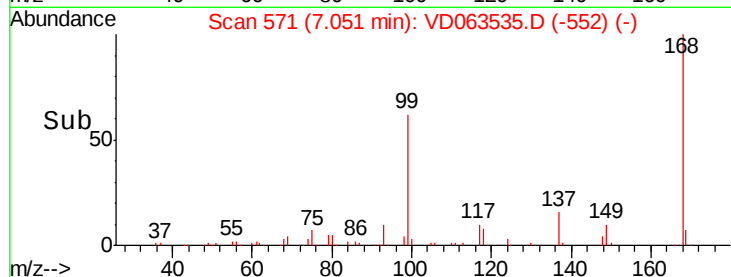
200000

100000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#16

Acetone

Concen: 7.292 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063535.D

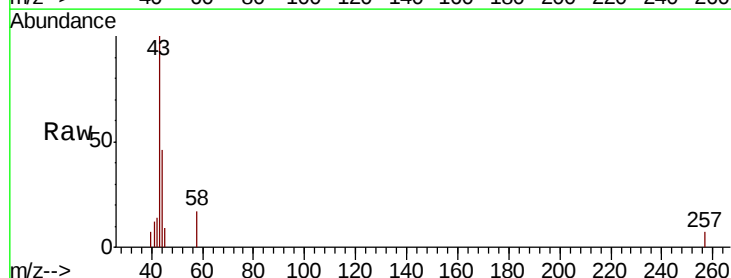
Acq: 13 Aug 2019 18:53

Tgt Ion: 43 Resp: 18397

Ion Ratio Lower Upper

43 100

58 16.7 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

6000

5000

4000

3000

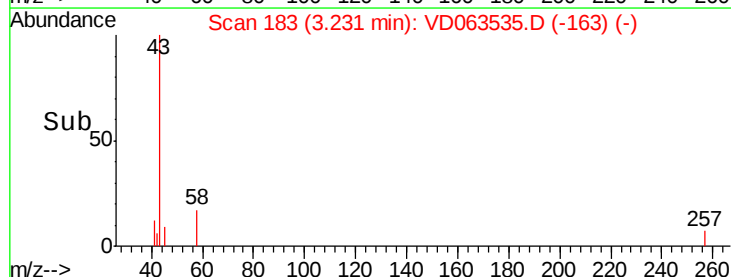
2000

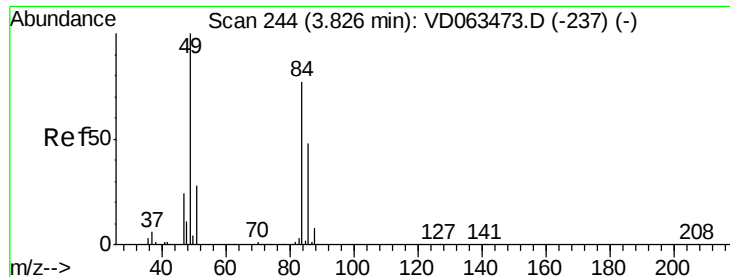
1000

0

3.10 3.20 3.30

Time-->

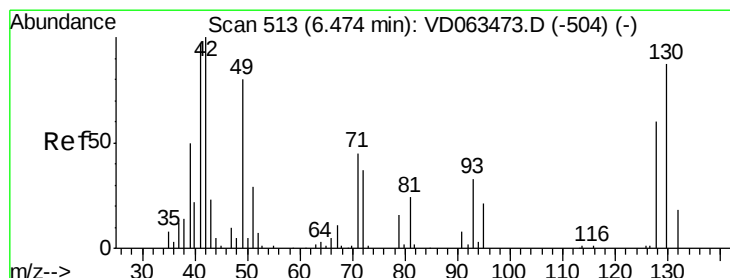
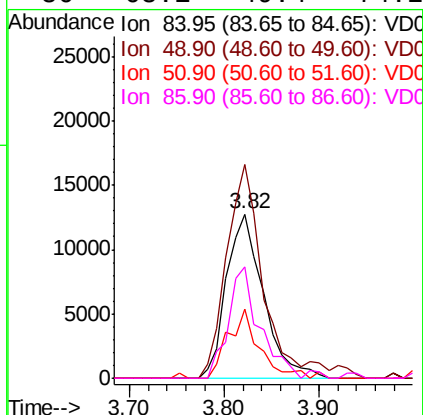
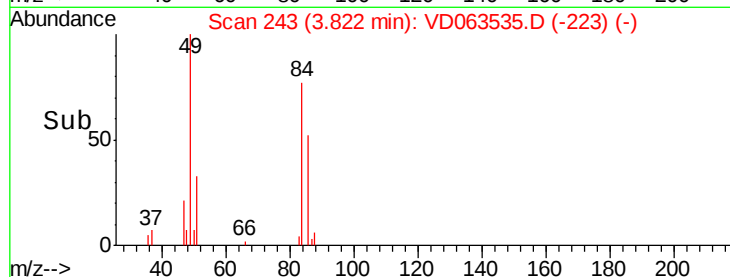
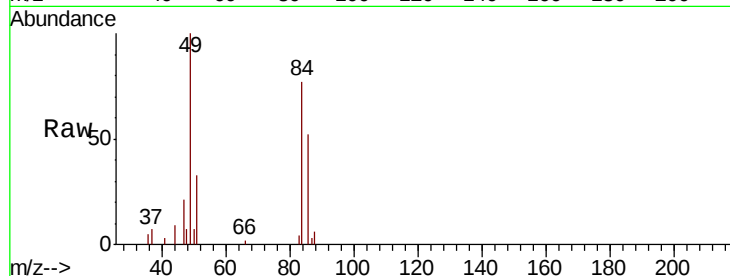




#20  
Methylene Chloride  
Concen: 3.173 ug/l  
RT: 3.82 min Scan# 243  
Delta R.T. -0.00 min  
Lab File: VD063535.D  
Acq: 13 Aug 2019 18:53

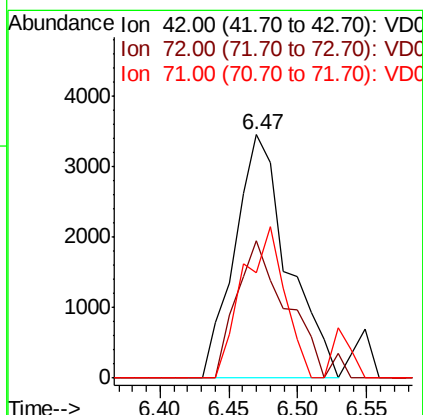
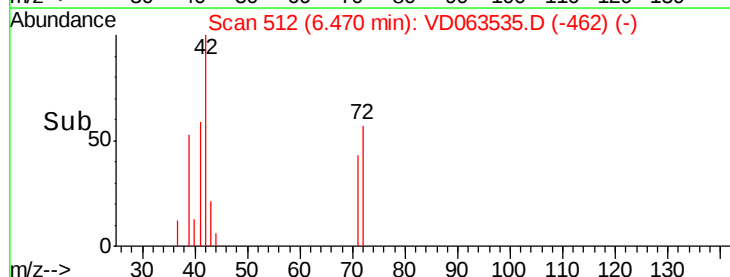
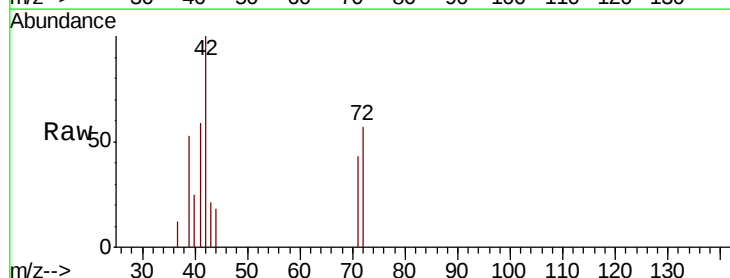
Instrument :  
MSVOA\_D  
ClientSampled :

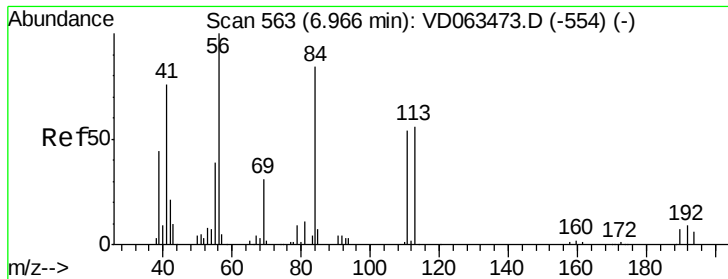
Tot Ion: 84 Resp: 34612  
Ion Ratio Lower Upper  
84 100  
49 130.2 103.4 155.2  
51 42.6 28.5 42.7  
86 68.1 49.4 74.2



#29  
Tetrahydrofuran  
Concen: 8.001 ug/l  
RT: 6.47 min Scan# 512  
Delta R.T. -0.00 min  
Lab File: VD063535.D  
Acq: 13 Aug 2019 18:53

Tgt Ion: 42 Resp: 9289  
Ion Ratio Lower Upper  
42 100  
72 54.6 31.5 47.3#  
71 49.0 33.8 50.8

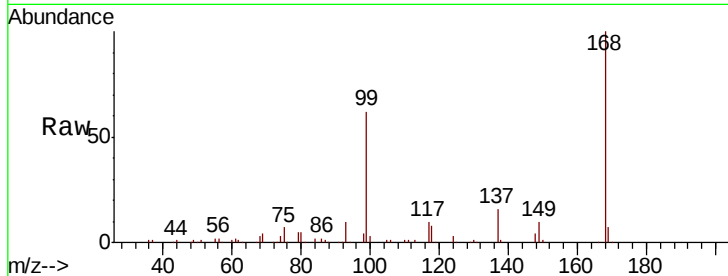




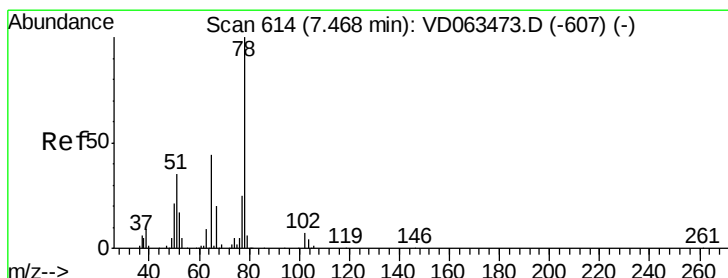
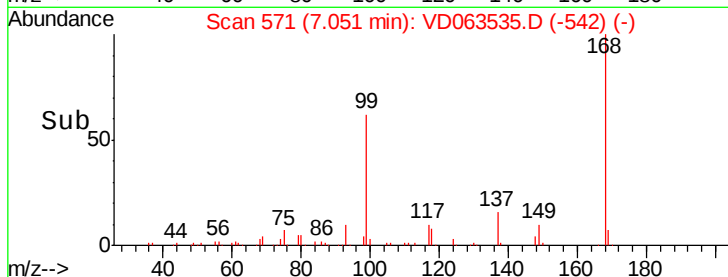
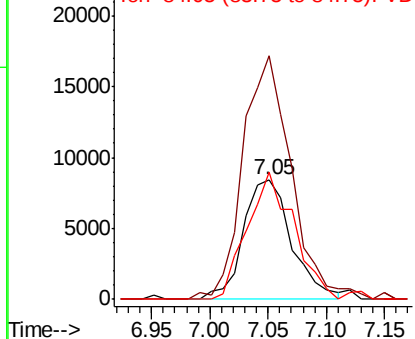
#31  
Cyclohexane  
Concen: 2.157 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.08 min  
Lab File: VD063535.D  
Acq: 13 Aug 2019 18:53

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 24176  
Ion Ratio Lower Upper  
56 100  
69 203.3 25.0 37.6#  
84 106.3 69.7 104.5#

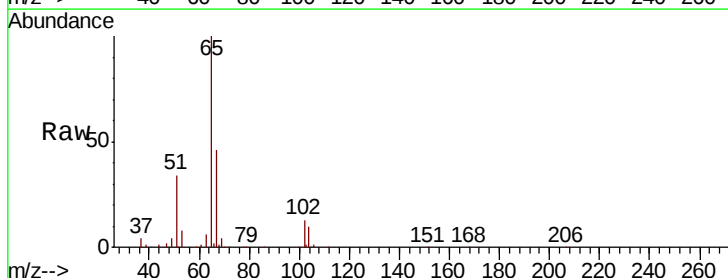


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

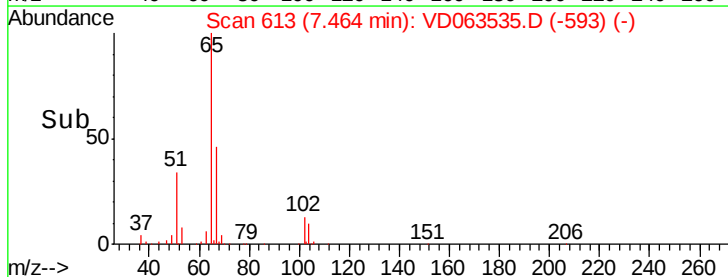
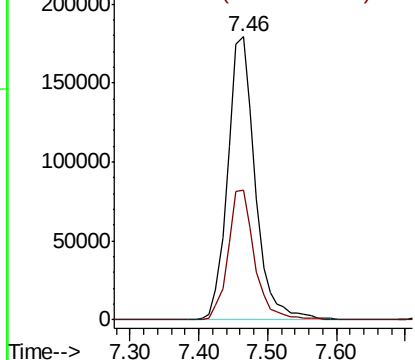


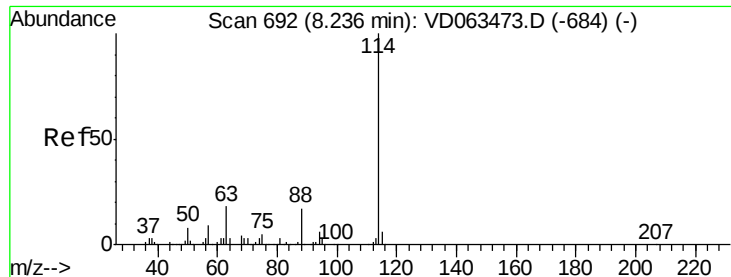
#33  
1,2-Dichloroethane-d4  
Concen: 39.891 ug/l  
RT: 7.46 min Scan# 613  
Delta R.T. -0.00 min  
Lab File: VD063535.D  
Acq: 13 Aug 2019 18:53

Tgt Ion: 65 Resp: 495076  
Ion Ratio Lower Upper  
65 100  
67 45.8 0.0 89.2



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: 8.22 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD063535.D

Acq: 13 Aug 2019 18:53

Instrument :

MSVOA\_D

ClientSampleId :

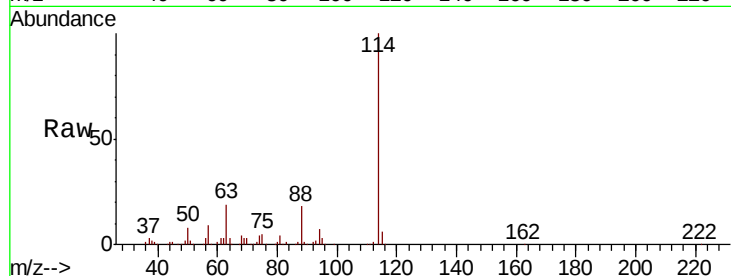
Tot Ion:114 Resp: 1665181

Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.2

88 18.1 0.0 35.0



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

800000

600000

400000

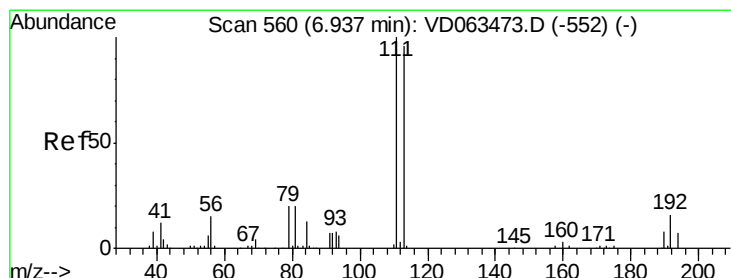
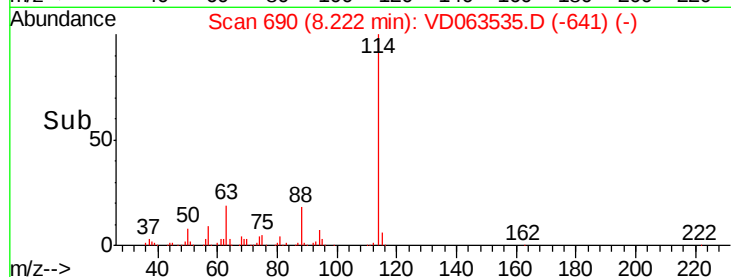
200000

0

8.20

8.40

Time-->



#35

Dibromofluoromethane

Concen: 40.157 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD063535.D

Acq: 13 Aug 2019 18:53

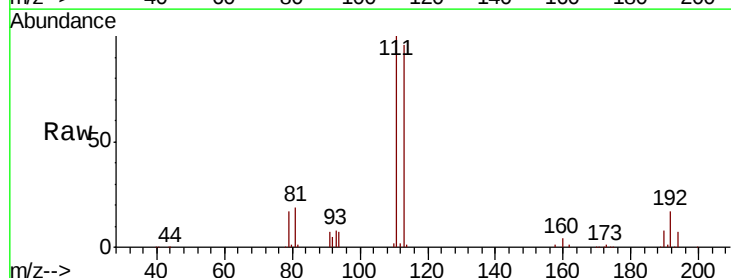
Tgt Ion:113 Resp: 563167

Ion Ratio Lower Upper

113 100

111 104.2 83.1 124.7

192 18.2 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

250000

200000

150000

100000

50000

0

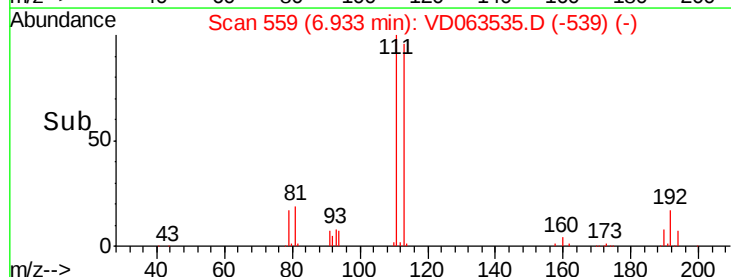
6.80

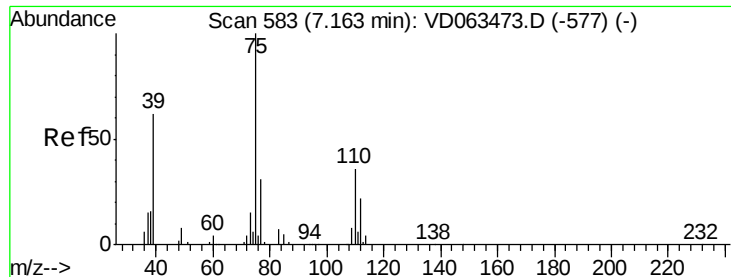
6.90

7.00

7.10

Time-->

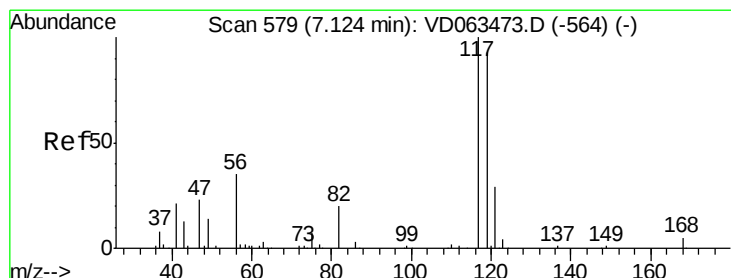
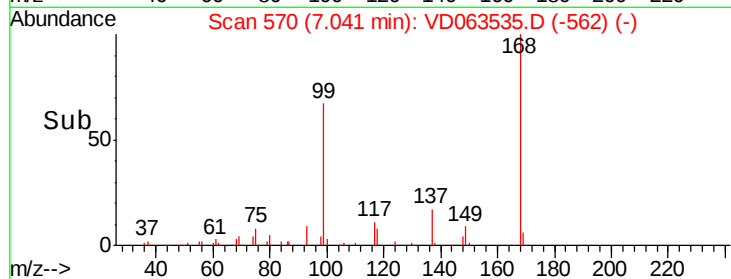
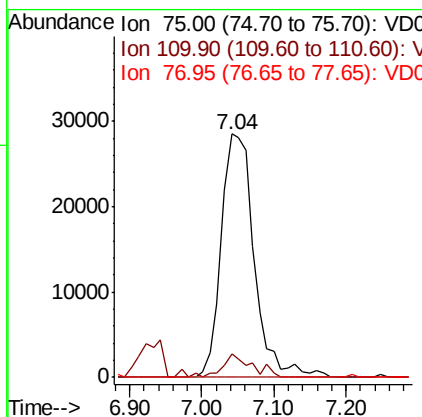
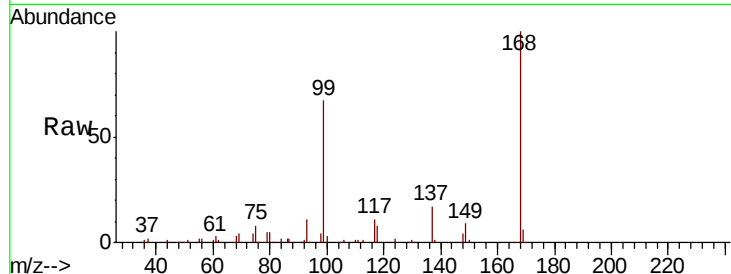




#36  
 1,1-Dichloropropene  
 Concen: 6.133 ug/l  
 RT: 7.04 min Scan# 570  
 Delta R.T. -0.12 min  
 Lab File: VD063535.D  
 Acq: 13 Aug 2019 18:53

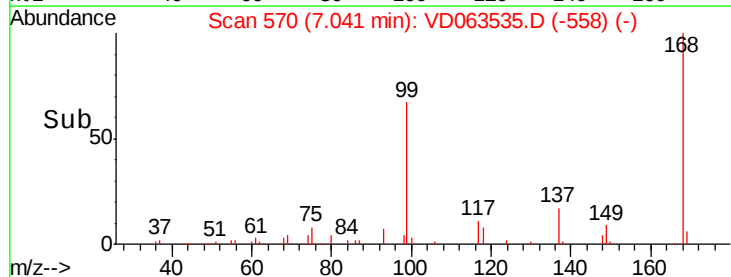
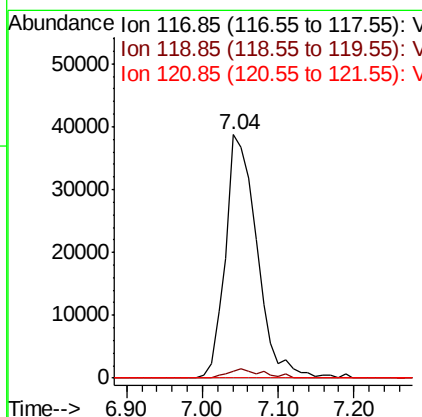
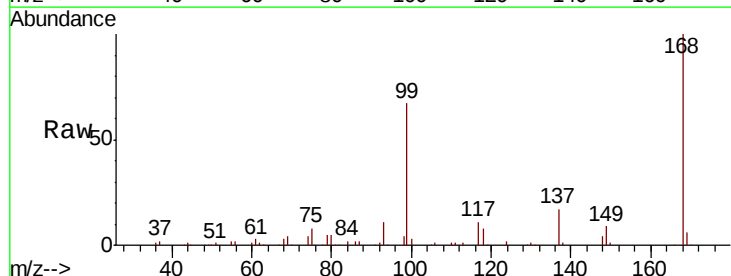
Instrument :  
 MSVOA\_D  
 ClientSampleID :

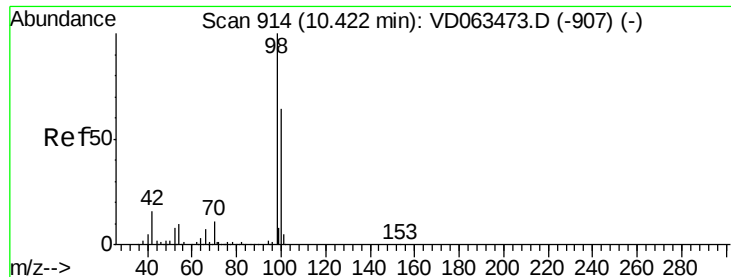
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.6   | 17.6  | 52.8# |
| 77      | 0.0   | 24.3  | 36.5# |



#38  
 Carbon Tetrachloride  
 Concen: 5.037 ug/l  
 RT: 7.04 min Scan# 570  
 Delta R.T. -0.08 min  
 Lab File: VD063535.D  
 Acq: 13 Aug 2019 18:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 2.8   | 74.2  | 111.2# |
| 121     | 0.0   | 23.1  | 34.7#  |





#50

Toluene-d8

Concen: 36.193 ug/l

RT: 10.42 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD063535.D

Acq: 13 Aug 2019 18:53

Instrument :

MSVOA\_D

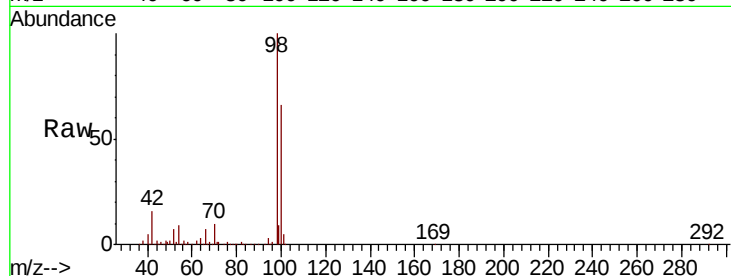
ClientSampled :

Tot Ion: 98 Resp: 1115938

Ion Ratio Lower Upper

98 100

100 66.2 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VD063473.D (-907) (-)

Ion 100.05 (99.75 to 100.75): VD063473.D (-907) (-)

10.42

500000

400000

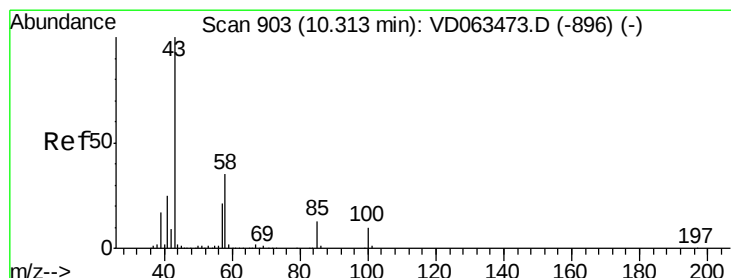
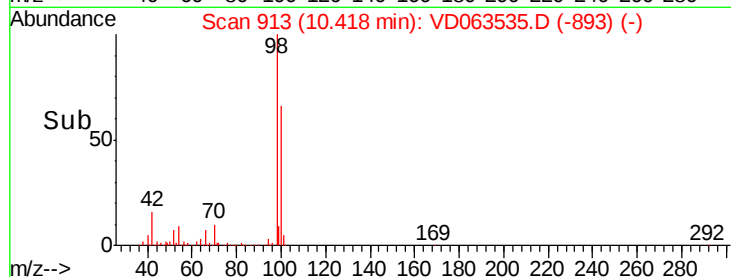
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.193 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.09 min

Lab File: VD063535.D

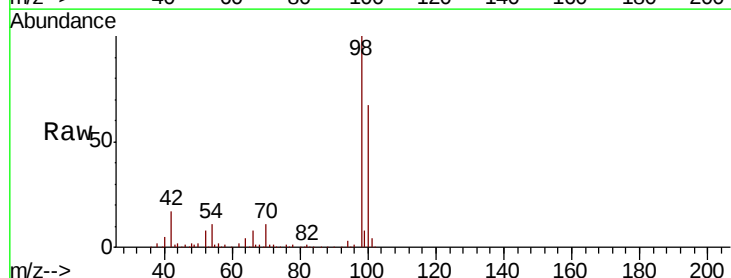
Acq: 13 Aug 2019 18:53

Tgt Ion: 43 Resp: 6744

Ion Ratio Lower Upper

43 100

58 106.7 28.0 42.0#



Abundance Ion 42.95 (42.65 to 43.65): VD063473.D (-896) (-)

Ion 57.95 (57.65 to 58.65): VD063473.D (-896) (-)

10.41

5000

4000

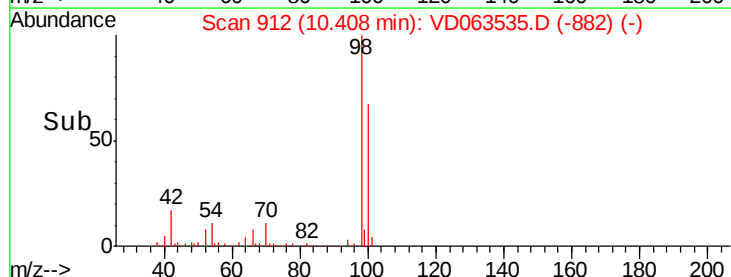
3000

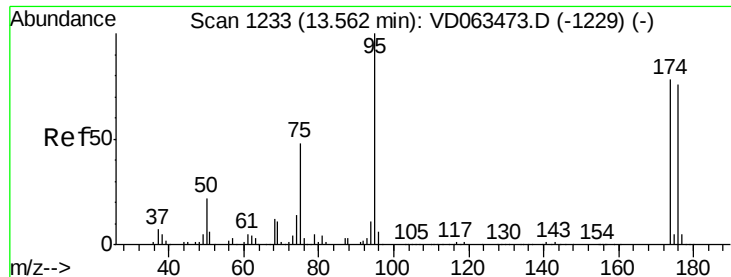
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 30.958 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063535.D

Acq: 13 Aug 2019 18:53

Instrument :

MSVOA\_D

ClientSampleId :

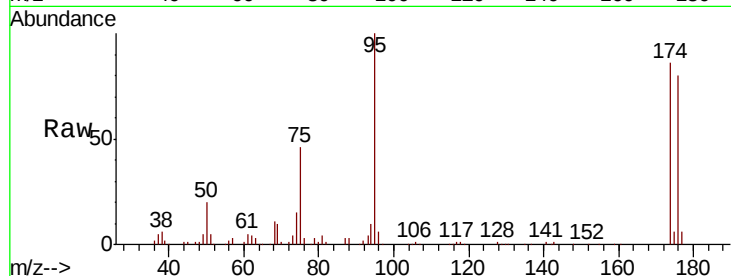
Tot Ion: 95 Resp: 432639

Ion Ratio Lower Upper

95 100

174 86.0 0.0 155.4

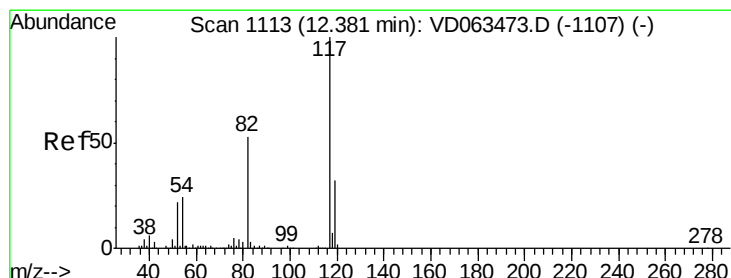
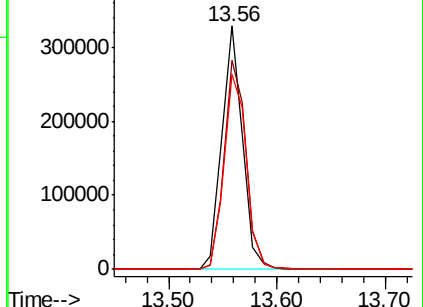
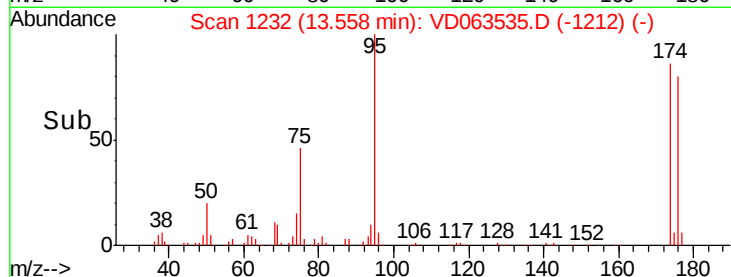
176 79.8 0.0 152.4



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# 1111

Delta R.T. -0.01 min

Lab File: VD063535.D

Acq: 13 Aug 2019 18:53

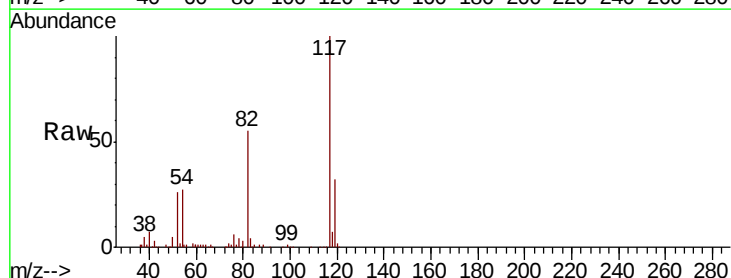
Tgt Ion: 117 Resp: 1184059

Ion Ratio Lower Upper

117 100

82 55.1 42.0 63.0

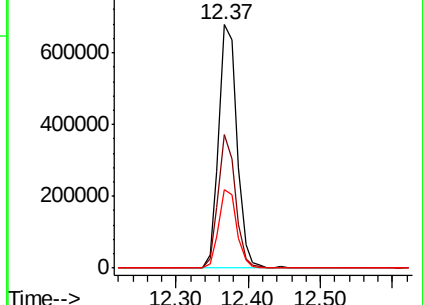
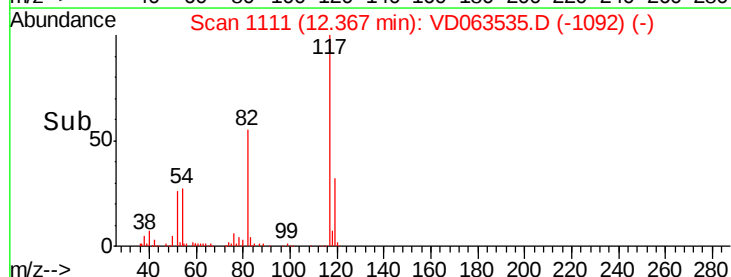
119 32.5 25.4 38.0

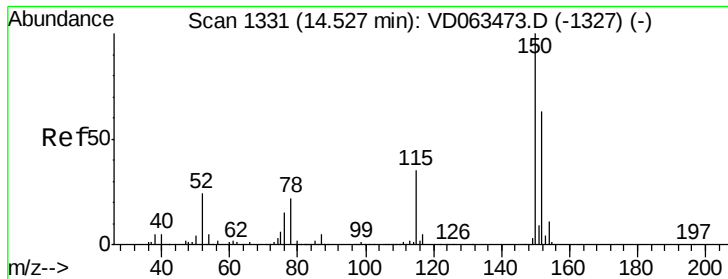


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



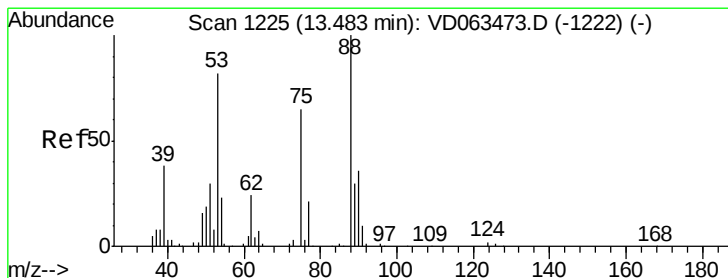
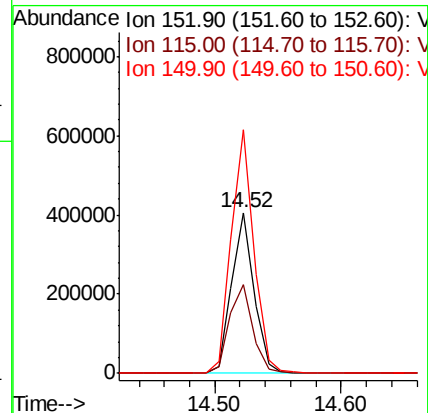
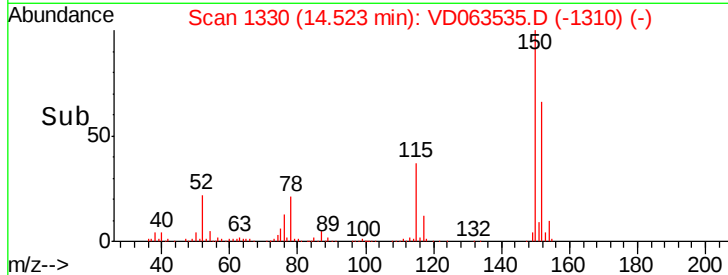
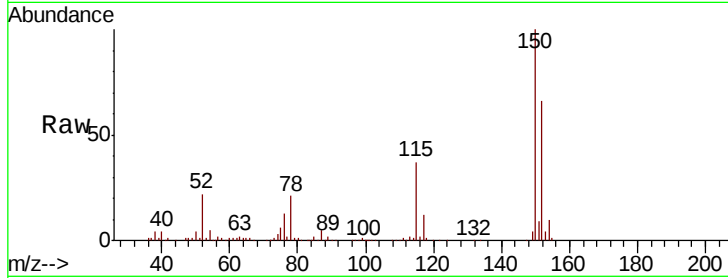


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VD063535.D  
Acq: 13 Aug 2019 18:53

Instrument :  
MSVOA\_D  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.6  | 30.9  | 92.7  |
| 150     | 151.6 | 0.0   | 318.6 |



#81

trans-1,4-Dichloro-2-butene  
Concen: 128.043 ug/l  
RT: 13.56 min Scan# 1232  
Delta R.T. 0.07 min  
Lab File: VD063535.D  
Acq: 13 Aug 2019 18:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 101.0 | 151.4# |
| 89      | 0.0   | 37.0  | 55.6#  |

