

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD081619\  
 Data File : VD063636.D  
 Acq On : 16 Aug 2019 14:27  
 Operator : JC/SY  
 Sample : K43546-11RE  
 Misc : 2.80g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-6RE

Quant Time: Aug 17 06:01:11 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      | 7.03  | 168  | 885609   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1126859  | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 684201   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 195983   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 442558   | 46.75 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 93.50%  |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 491575   | 51.80 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 103.60% |          |
| 50) Toluene-d8              | 10.39 | 98   | 952107   | 45.63 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 91.26%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 244302   | 25.83 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 51.66%  |          |

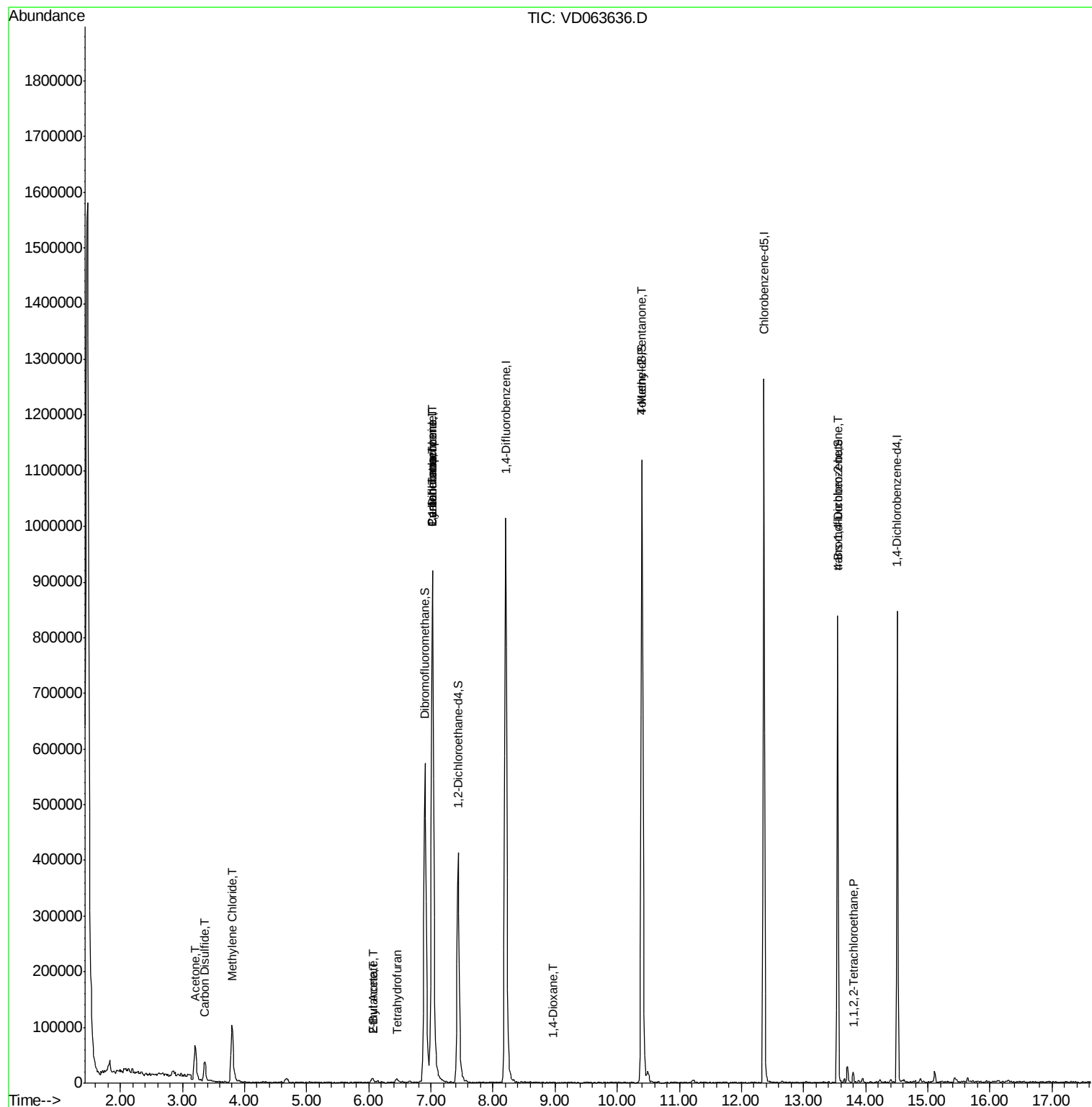
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 3.21  | 43   | 123062   | 63.950  | ug/l   | 95     |
| 17) Carbon Disulfide           | 3.36  | 76   | 67156    | 2.973   | ug/l   | 98     |
| 20) Methylene Chloride         | 3.80  | 84   | 62259    | 7.482   | ug/l # | 91     |
| 25) 2-Butanone                 | 6.07  | 43   | 15887    | 8.359   | ug/l   | 96     |
| 29) Tetrahydrofuran            | 6.44  | 42   | 6232     | 7.037   | ug/l # | 86     |
| 31) Cyclohexane                | 7.02  | 56   | 18236    | 2.133   | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.02  | 75   | 64822    | 6.507   | ug/l # | 48     |
| 37) Ethyl Acetate              | 6.07  | 43   | 15887    | 3.806   | ug/l # | 73     |
| 38) Carbon Tetrachloride       | 7.02  | 117  | 87084    | 5.800   | ug/l # | 19     |
| 49) 1,4-Dioxane                | 8.95  | 88   | 233      | 31.452  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.38 | 43   | 5193     | 1.357   | ug/l # | 32     |
| 75) 1,1,2,2-Tetrachloroethane  | 13.80 | 83   | 2247     | 1.086   | ug/l # | 46     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 115721   | 191.422 | ug/l # | 1      |

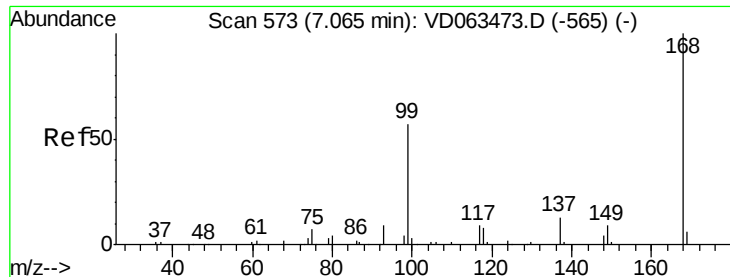
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD081619\  
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Instrument :  
MSVOA\_D  
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TP-6RE

Quant Time: Aug 17 06:01:11 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: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

Instrument :

MSVOA\_D

ClientSampleId :

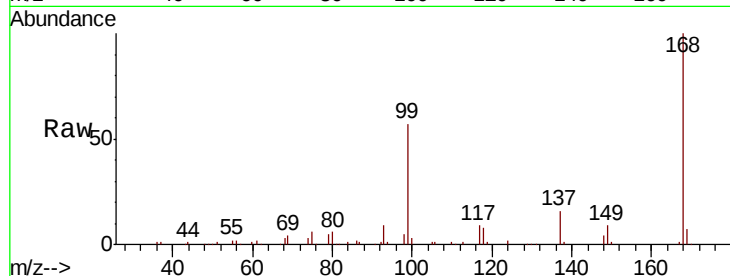
TP-6RE

Tgt Ion:168 Resp: 885609

Ion Ratio Lower Upper

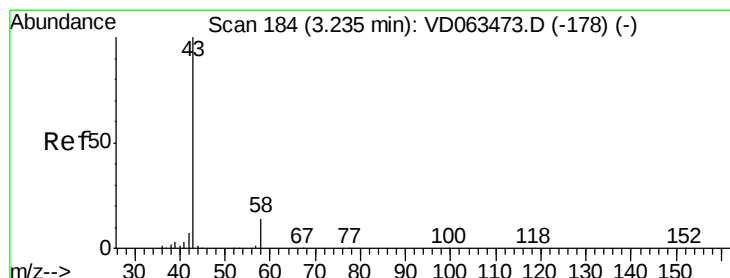
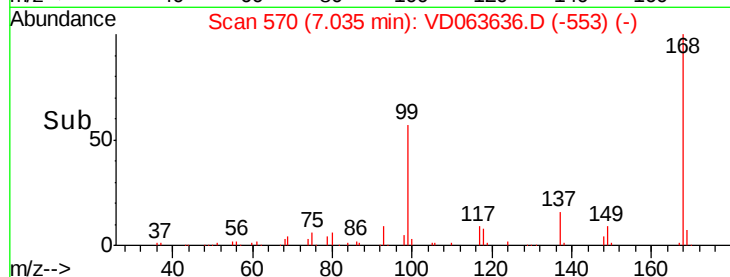
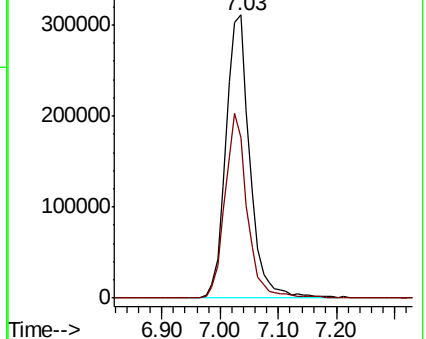
168 100

99 56.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 63.950 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063636.D

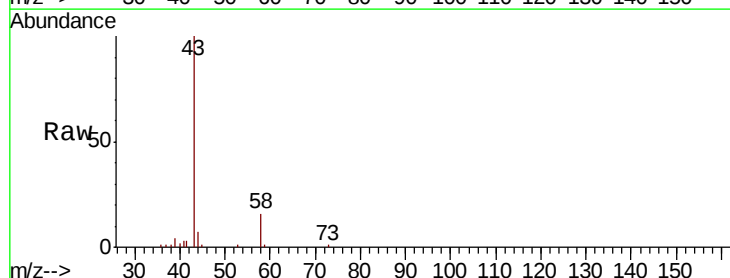
Acq: 16 Aug 2019 14:27

Tgt Ion: 43 Resp: 123062

Ion Ratio Lower Upper

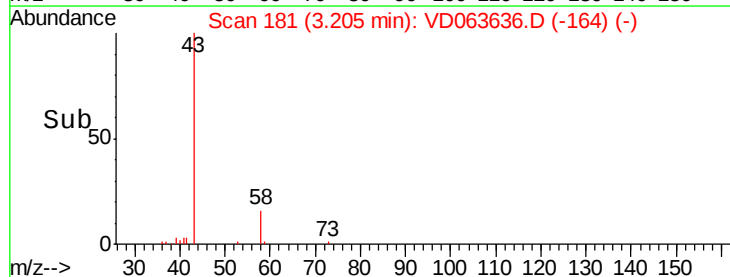
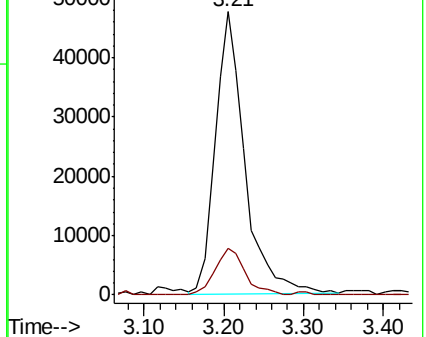
43 100

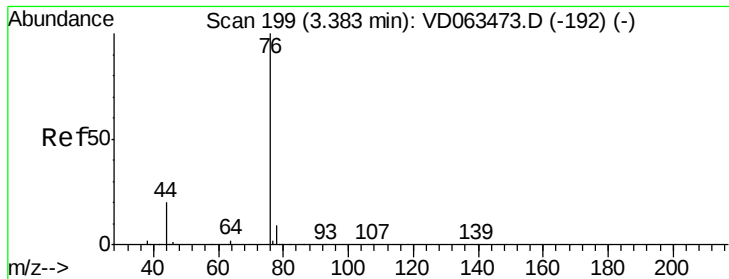
58 16.3 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

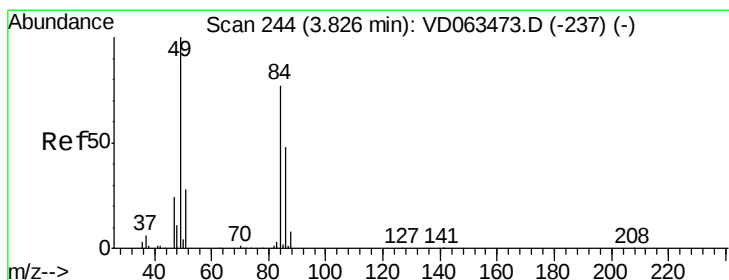
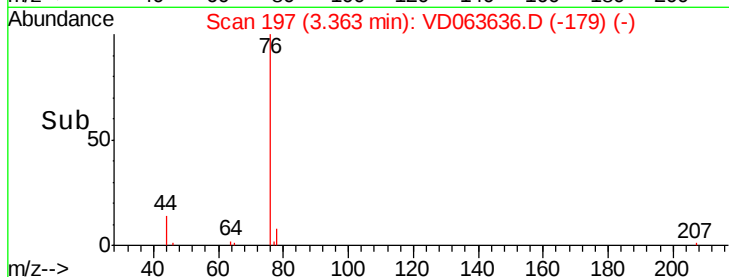
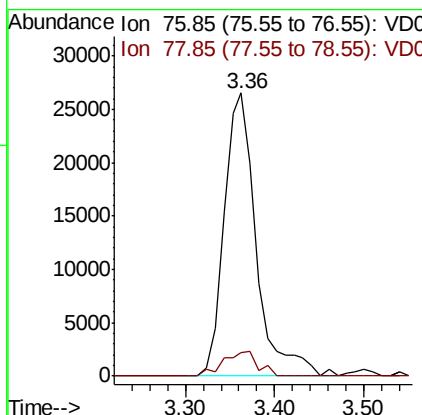
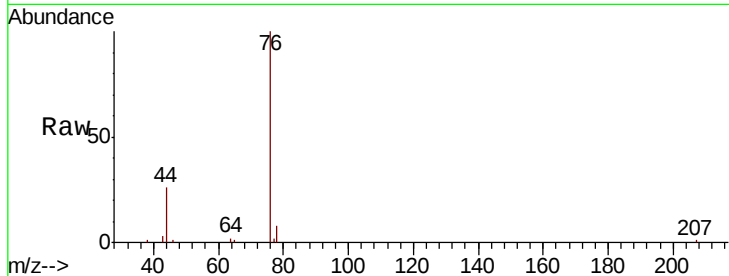




#17  
Carbon Disulfide  
Concen: 2.973 ug/l  
RT: 3.36 min Scan# 197  
Delta R.T. -0.02 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

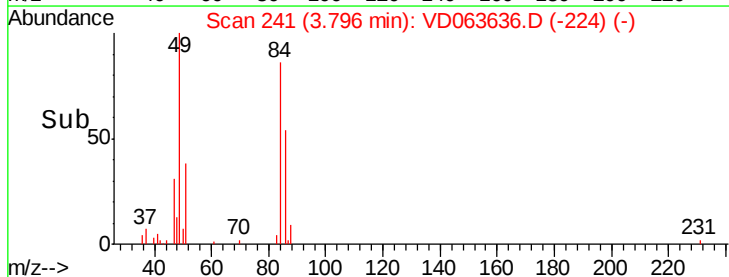
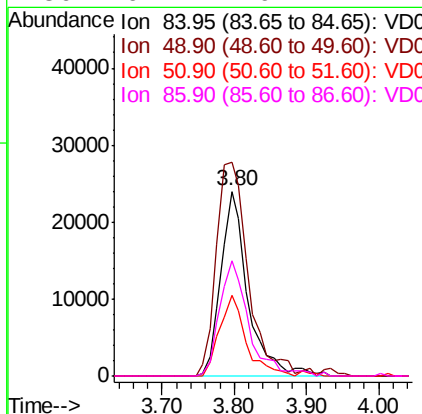
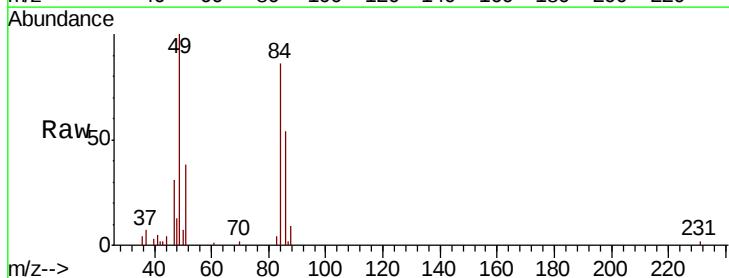
Instrument :  
MSVOA\_D  
ClientSampleId :  
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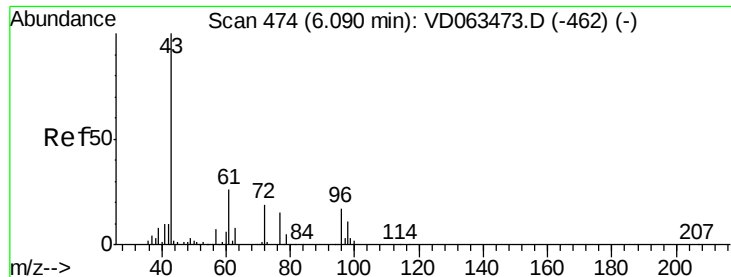
Tgt Ion: 76 Resp: 67156  
Ion Ratio Lower Upper  
76 100  
78 8.5 7.4 11.0



#20  
Methylene Chloride  
Concen: 7.482 ug/l  
RT: 3.80 min Scan# 241  
Delta R.T. -0.03 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

Tgt Ion: 84 Resp: 62259  
Ion Ratio Lower Upper  
84 100  
49 115.8 103.4 155.2  
51 43.9 28.5 42.7#  
86 62.4 49.4 74.2

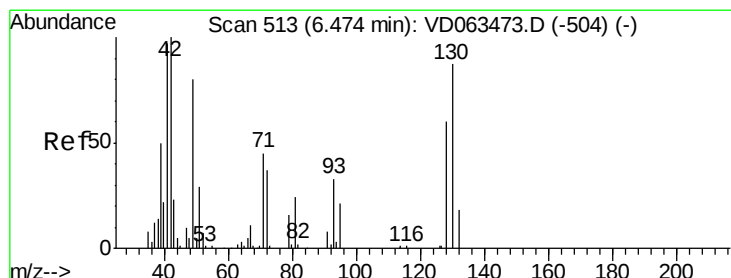
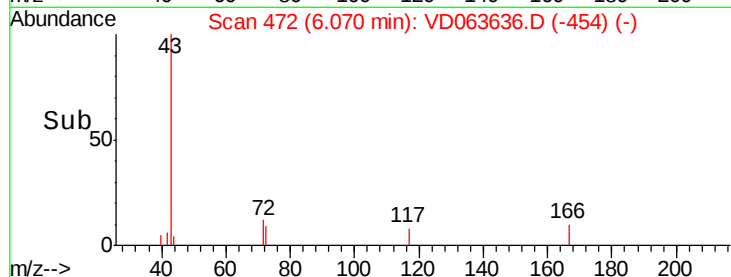
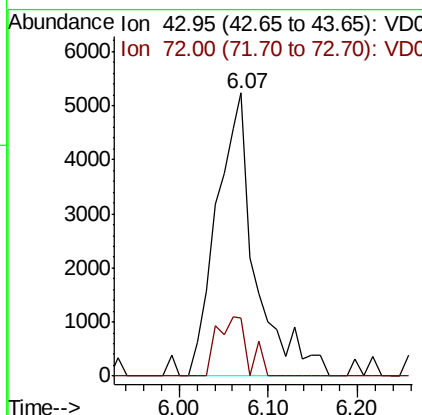
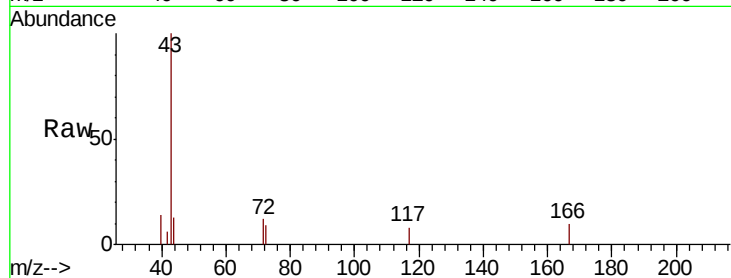




#25  
2-Butanone  
Concen: 8.359 ug/l  
RT: 6.07 min Scan# 472  
Delta R.T. -0.02 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

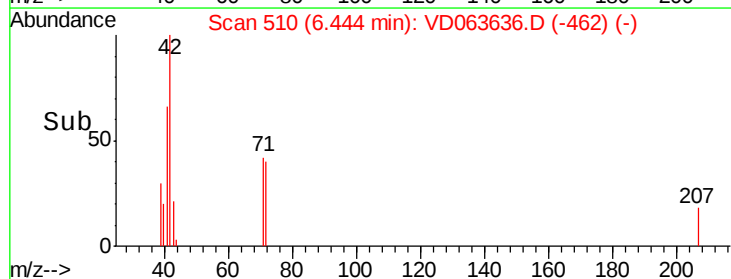
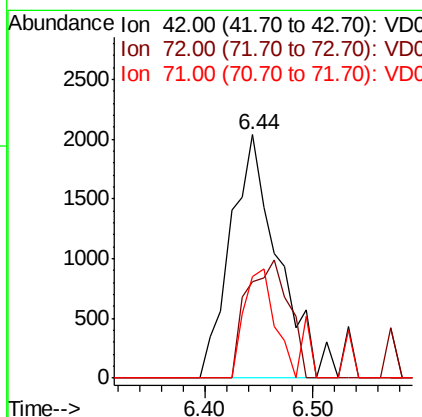
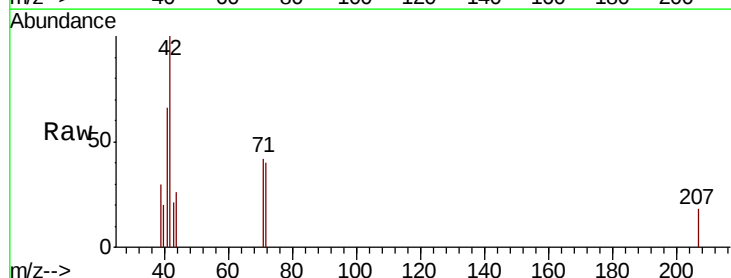
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-6RE

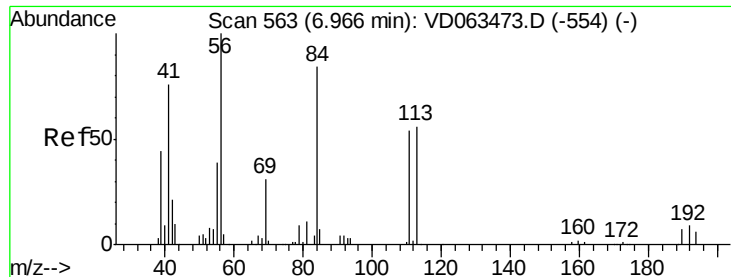
Tgt Ion: 43 Resp: 15887  
Ion Ratio Lower Upper  
43 100  
72 20.7 15.1 22.7



#29  
Tetrahydrofuran  
Concen: 7.037 ug/l  
RT: 6.44 min Scan# 510  
Delta R.T. -0.03 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

Tgt Ion: 42 Resp: 6232  
Ion Ratio Lower Upper  
42 100  
72 42.7 31.5 47.3  
71 28.9 33.8 50.8#

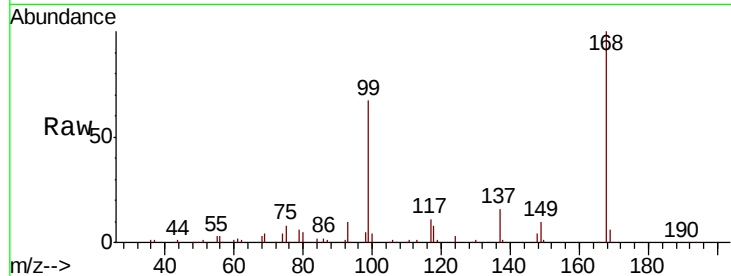




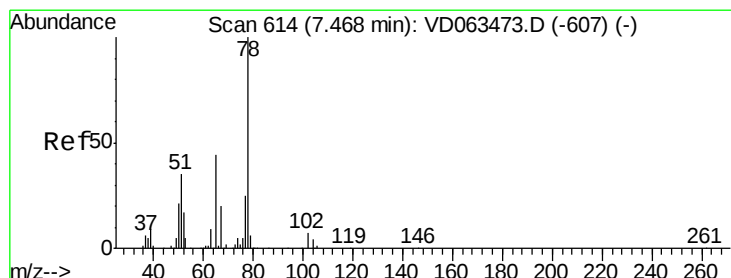
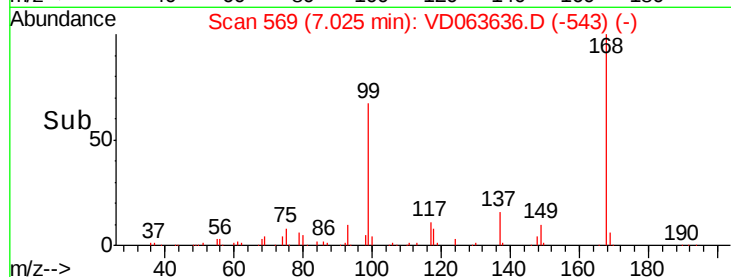
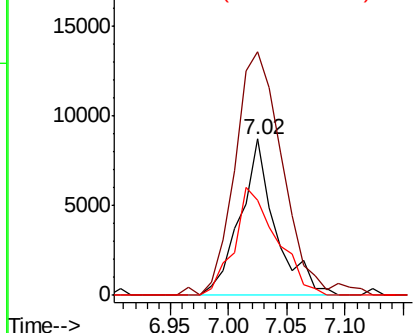
#31  
Cyclohexane  
Concen: 2.133 ug/l  
RT: 7.02 min Scan# 569  
Delta R.T. 0.06 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

Instrument :  
MSVOA\_D  
ClientSampled :  
TP-6RE

Tgt Ion: 56 Resp: 18236  
Ion Ratio Lower Upper  
56 100  
69 156.1 25.0 37.6#  
84 60.9 69.7 104.5#

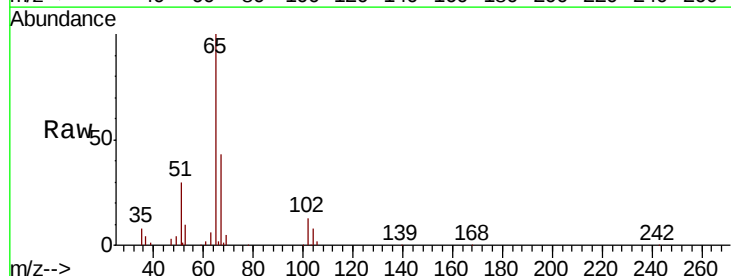


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

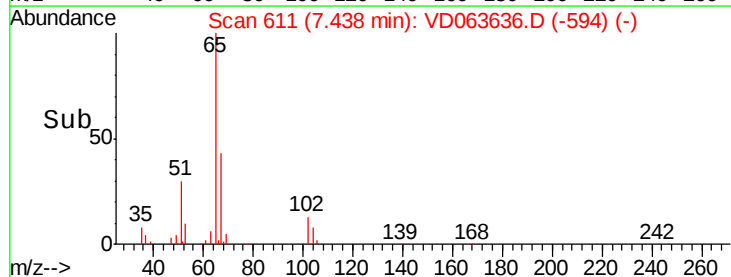
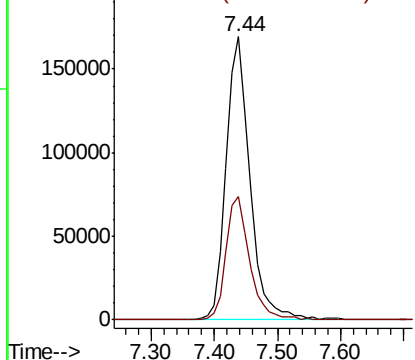


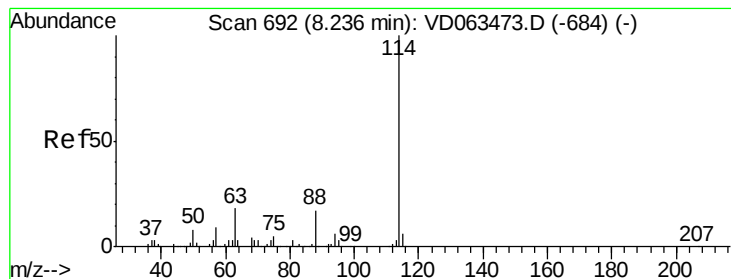
#33  
1,2-Dichloroethane-d4  
Concen: 46.750 ug/l  
RT: 7.44 min Scan# 611  
Delta R.T. -0.03 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

Tgt Ion: 65 Resp: 442558  
Ion Ratio Lower Upper  
65 100  
67 43.4 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: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

Instrument :

MSVOA\_D

ClientSampleId :

TP-6RE

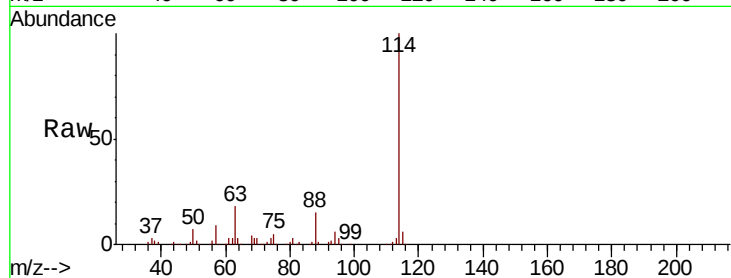
Tgt Ion:114 Resp: 1126859

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.2

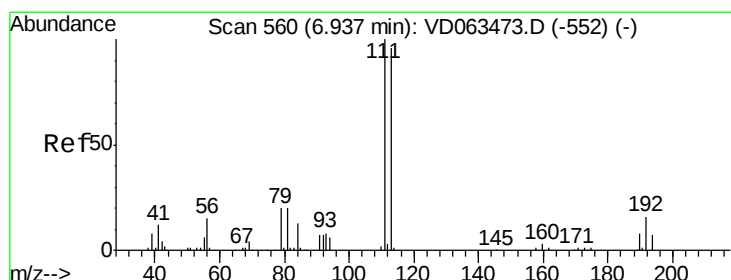
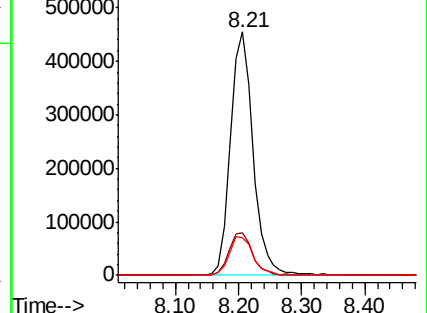
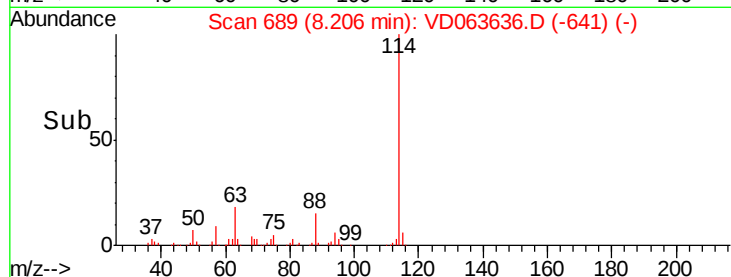
88 15.4 0.0 35.0



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



#35

Dibromofluoromethane

Concen: 51.797 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

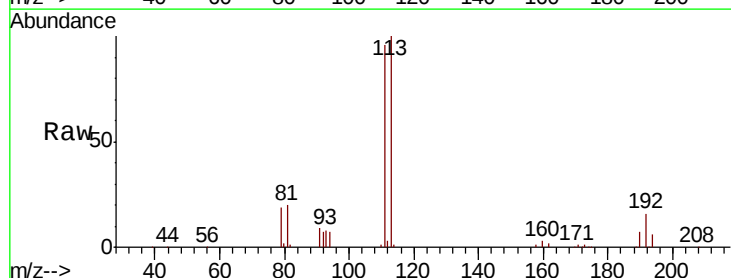
Tgt Ion:113 Resp: 491575

Ion Ratio Lower Upper

113 100

111 96.4 83.1 124.7

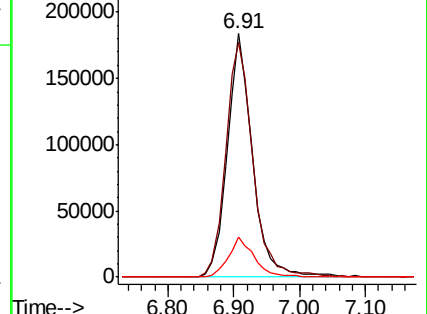
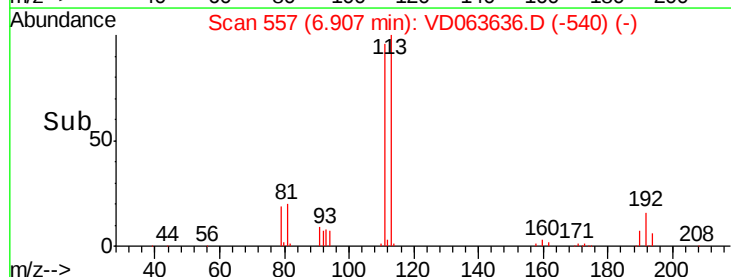
192 16.3 13.1 19.7

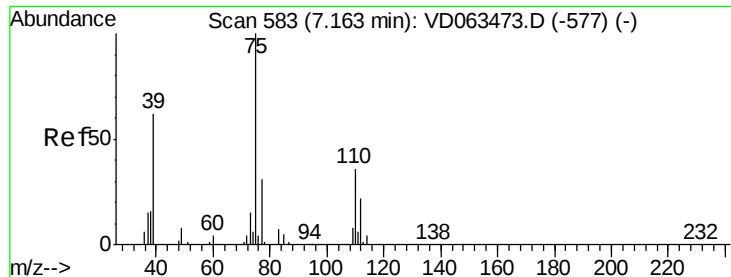


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.507 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.14 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

Instrument :

MSVOA\_D

ClientSampleId :

TP-6RE

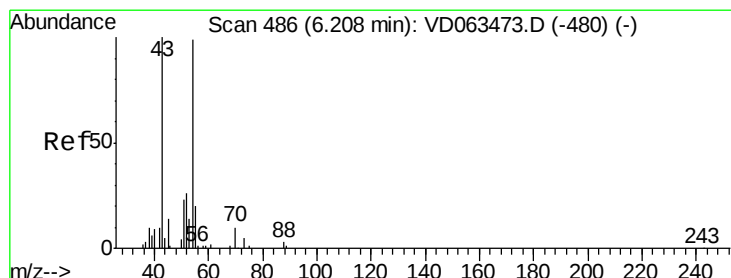
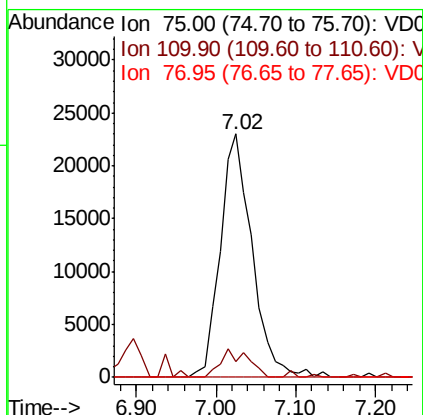
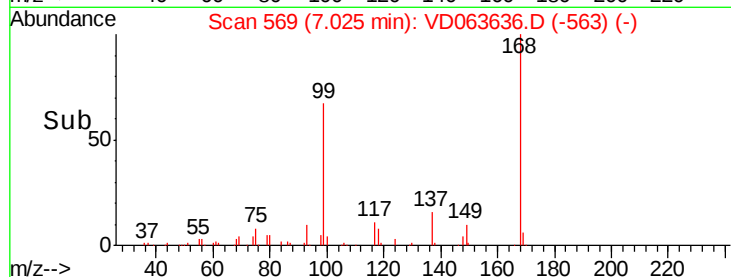
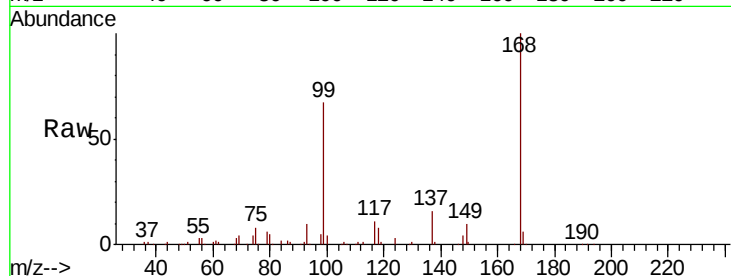
Tgt Ion: 75 Resp: 64822

Ion Ratio Lower Upper

75 100

110 6.4 17.6 52.8#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 3.806 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.14 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

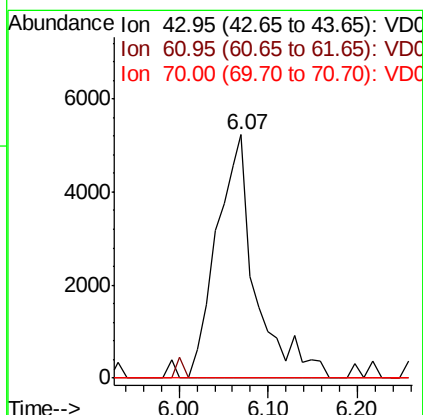
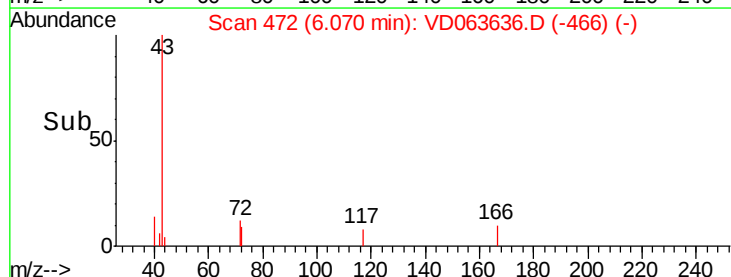
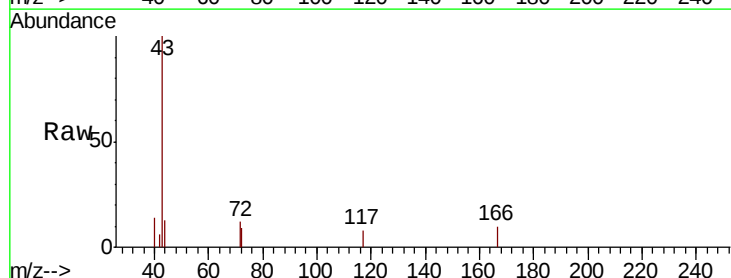
Tgt Ion: 43 Resp: 15887

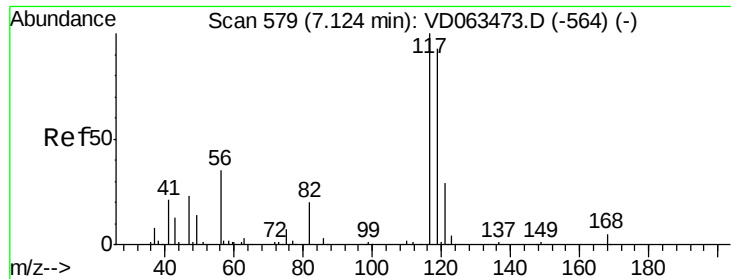
Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.6#

70 0.0 6.9 10.3#

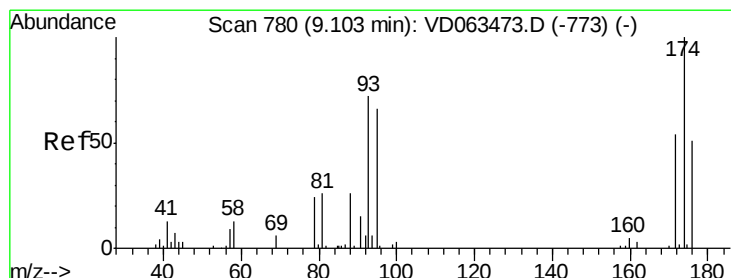
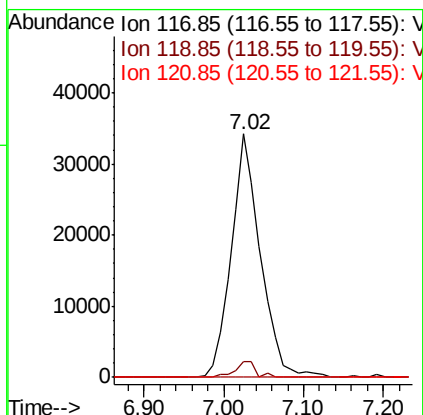
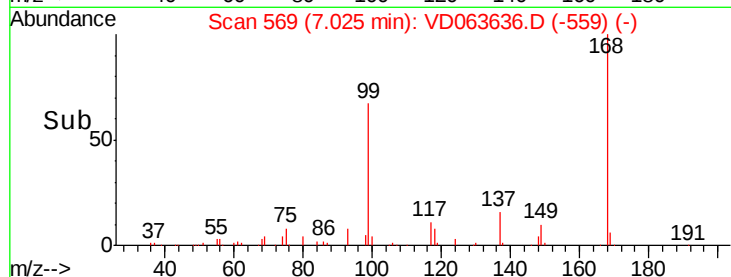
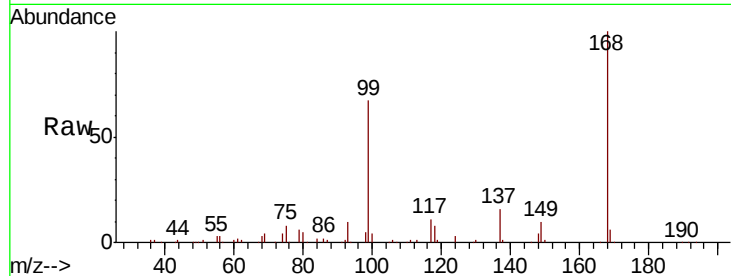




#38  
Carbon Tetrachloride  
Concen: 5.800 ug/l  
RT: 7.02 min Scan# 569  
Delta R.T. -0.10 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

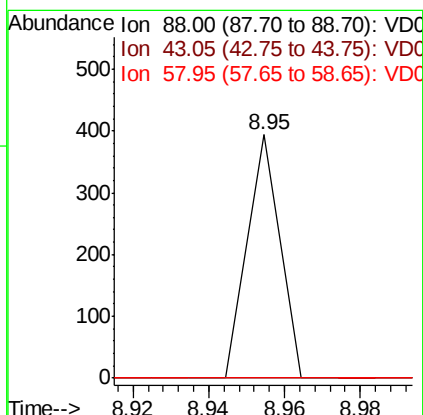
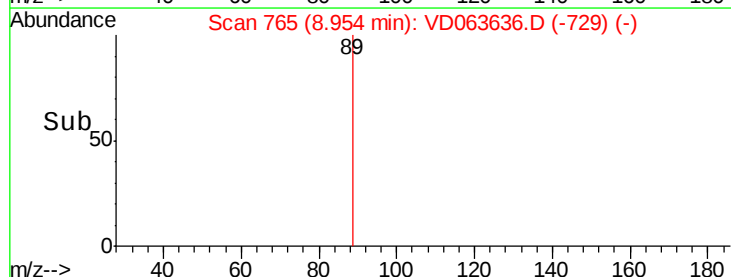
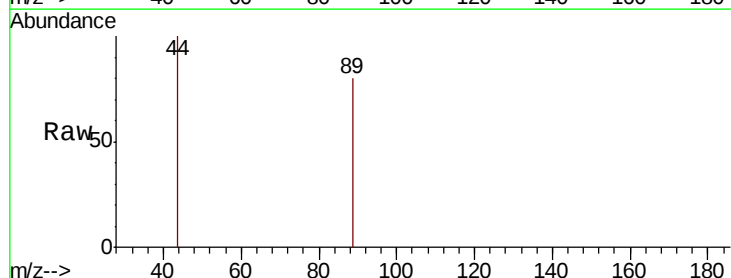
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-6RE

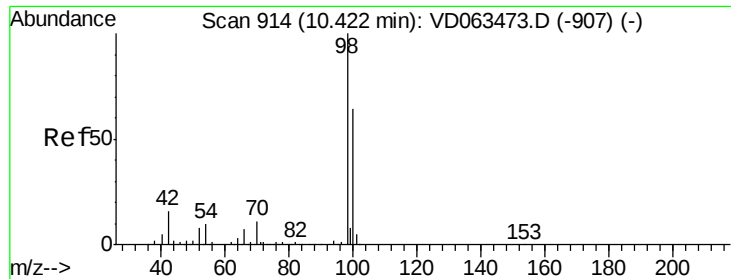
Tgt Ion: 117 Resp: 87084  
Ion Ratio Lower Upper  
117 100  
119 6.6 74.2 111.2#  
121 0.0 23.1 34.7#



#49  
1,4-Dioxane  
Concen: 31.452 ug/l  
RT: 8.95 min Scan# 765  
Delta R.T. -0.15 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

Tgt Ion: 88 Resp: 233  
Ion Ratio Lower Upper  
88 100  
43 124.6 22.9 34.3#  
58 0.0 40.1 60.1#

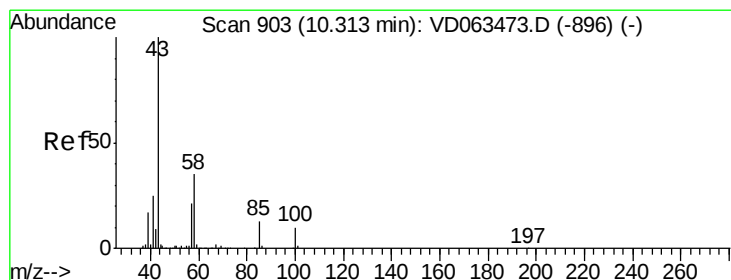
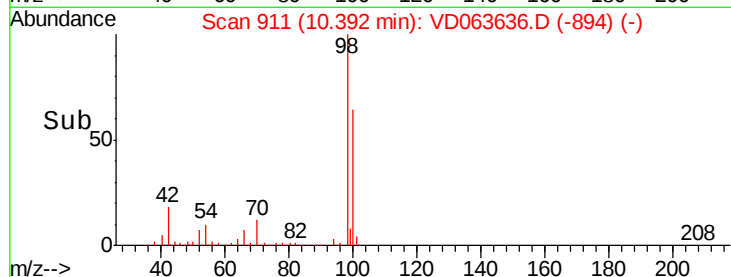
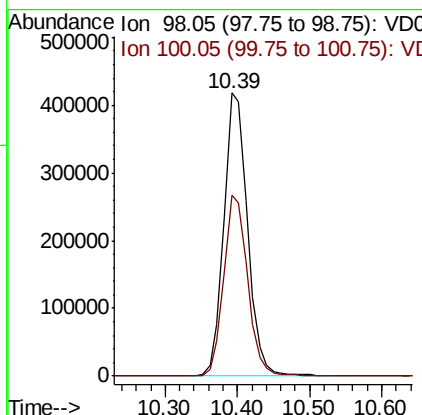
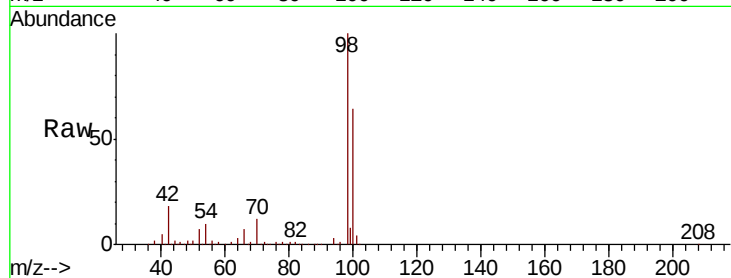




#50  
Toluene-d8  
Concen: 45.631 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. -0.03 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

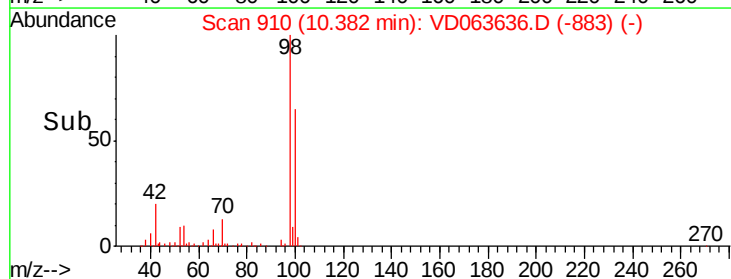
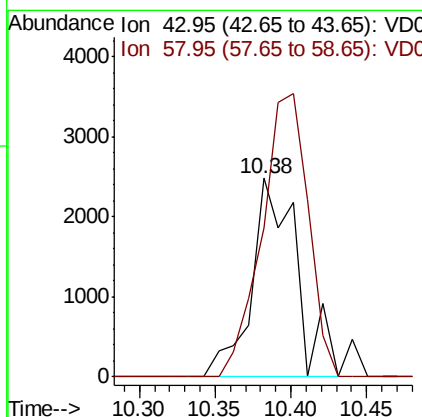
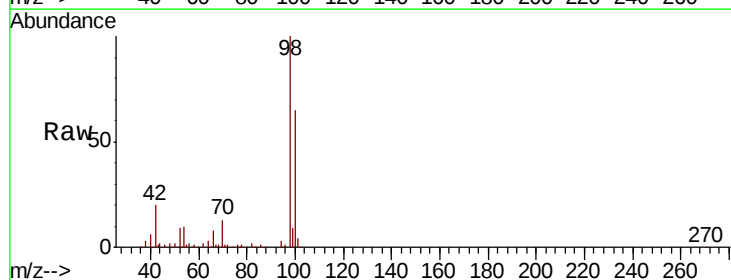
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-6RE

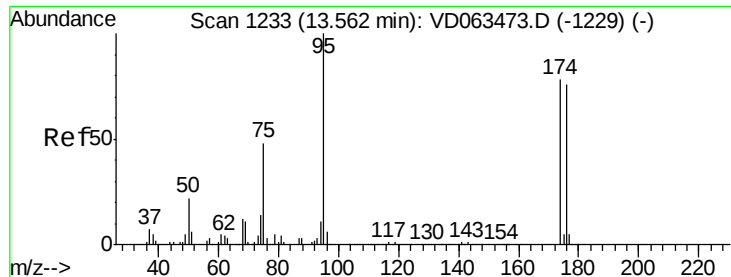
Tgt Ion: 98 Resp: 952107  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 1.357 ug/l  
RT: 10.38 min Scan# 910  
Delta R.T. 0.07 min  
Lab File: VD063636.D  
Acq: 16 Aug 2019 14:27

Tgt Ion: 43 Resp: 5193  
Ion Ratio Lower Upper  
43 100  
58 74.7 28.0 42.0#





#62

4-Bromofluorobenzene

Concen: 25.833 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

Instrument :

MSVOA\_D

ClientSampleId :

TP-6RE

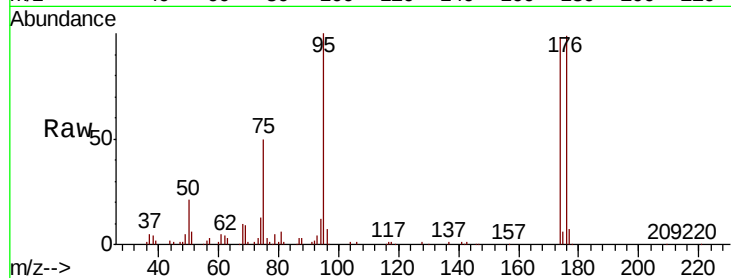
Tgt Ion: 95 Resp: 244302

Ion Ratio Lower Upper

95 100

174 97.5 0.0 155.4

176 99.4 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

13.55

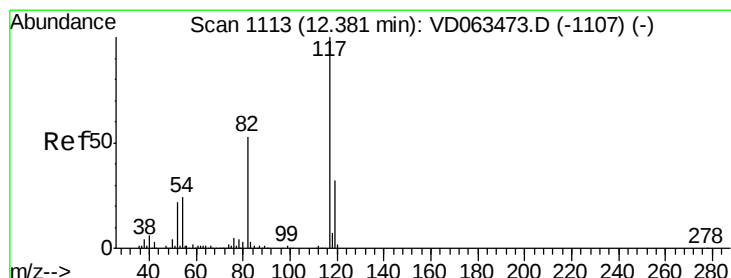
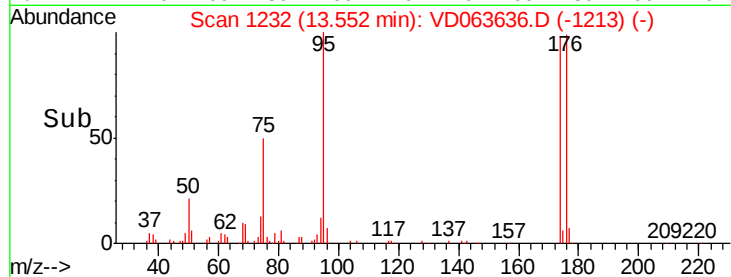
150000

100000

50000

0

Time--> 13.45 13.50 13.55 13.60



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

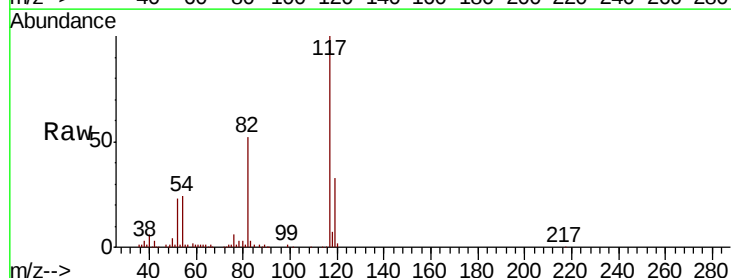
Tgt Ion: 117 Resp: 684201

Ion Ratio Lower Upper

117 100

82 52.5 42.0 63.0

119 33.4 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

12.36

500000

400000

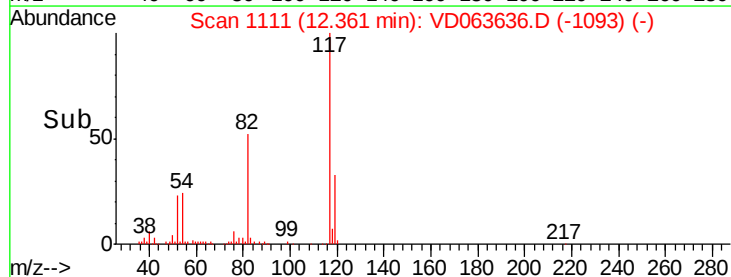
300000

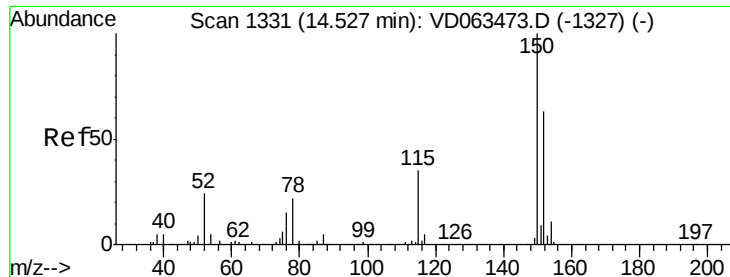
200000

100000

0

Time--> 12.30 12.40 12.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

Instrument :

MSVOA\_D

ClientSampled :

TP-6RE

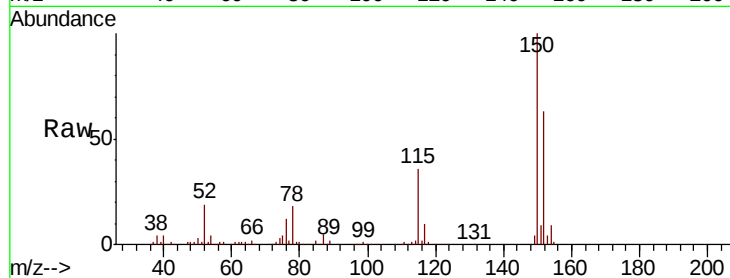
Tgt Ion:152 Resp: 195983

Ion Ratio Lower Upper

152 100

115 56.8 30.9 92.7

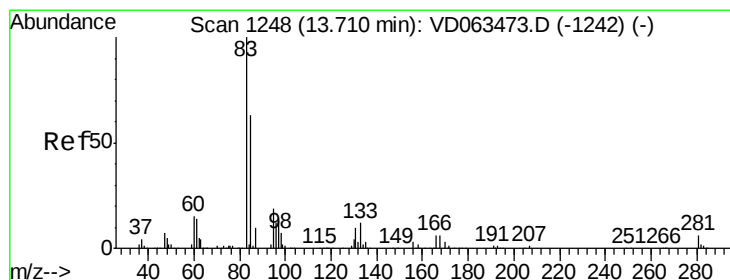
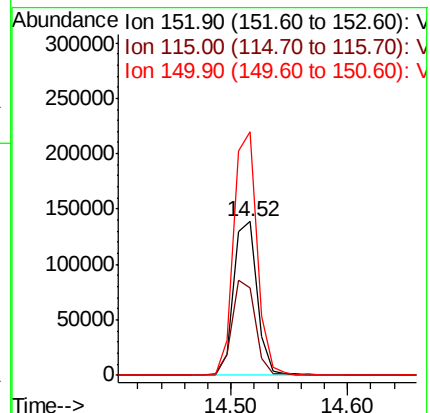
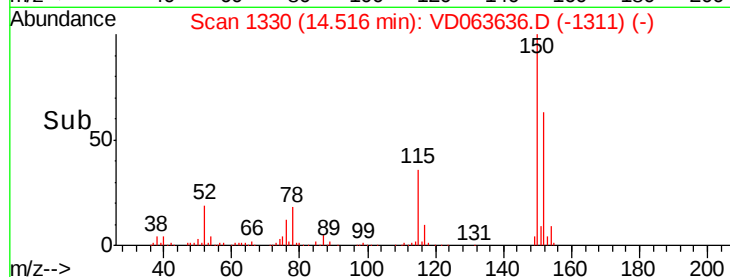
150 158.5 0.0 318.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.086 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.09 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

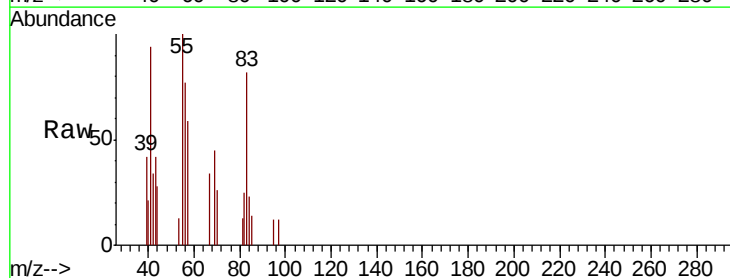
Tgt Ion: 83 Resp: 2247

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

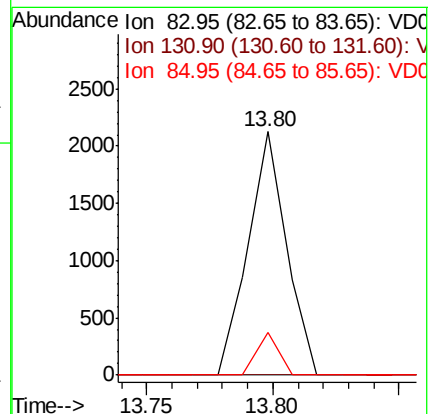
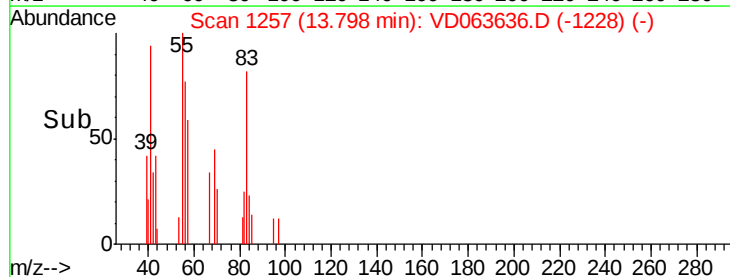
85 17.3 31.4 94.3#

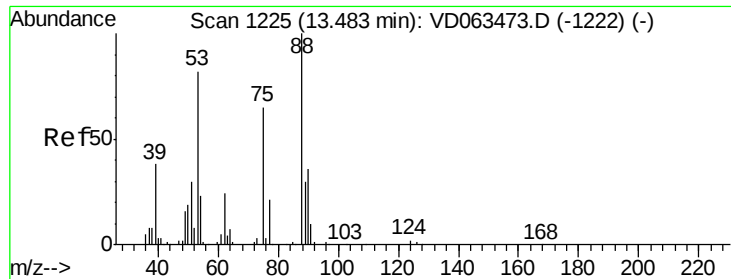


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 191.422 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063636.D

Acq: 16 Aug 2019 14:27

Instrument :

MSVOA\_D

ClientSampleId :

TP-6RE

Tgt Ion: 75 Resp: 115721

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#

