

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110520\  
 Data File : VD067541.D  
 Acq On : 05 Nov 2020 17:07  
 Operator : VA/SY  
 Sample : L4657-04  
 Misc : 7.29G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 06 00:15:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 298004   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 468569   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 475012   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 227574   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 151290   | 58.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.12% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 149956   | 53.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.24% |          |
| 50) Toluene-d8              | 10.34 | 98   | 556525   | 56.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.20% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 206043   | 60.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 120.30% |          |

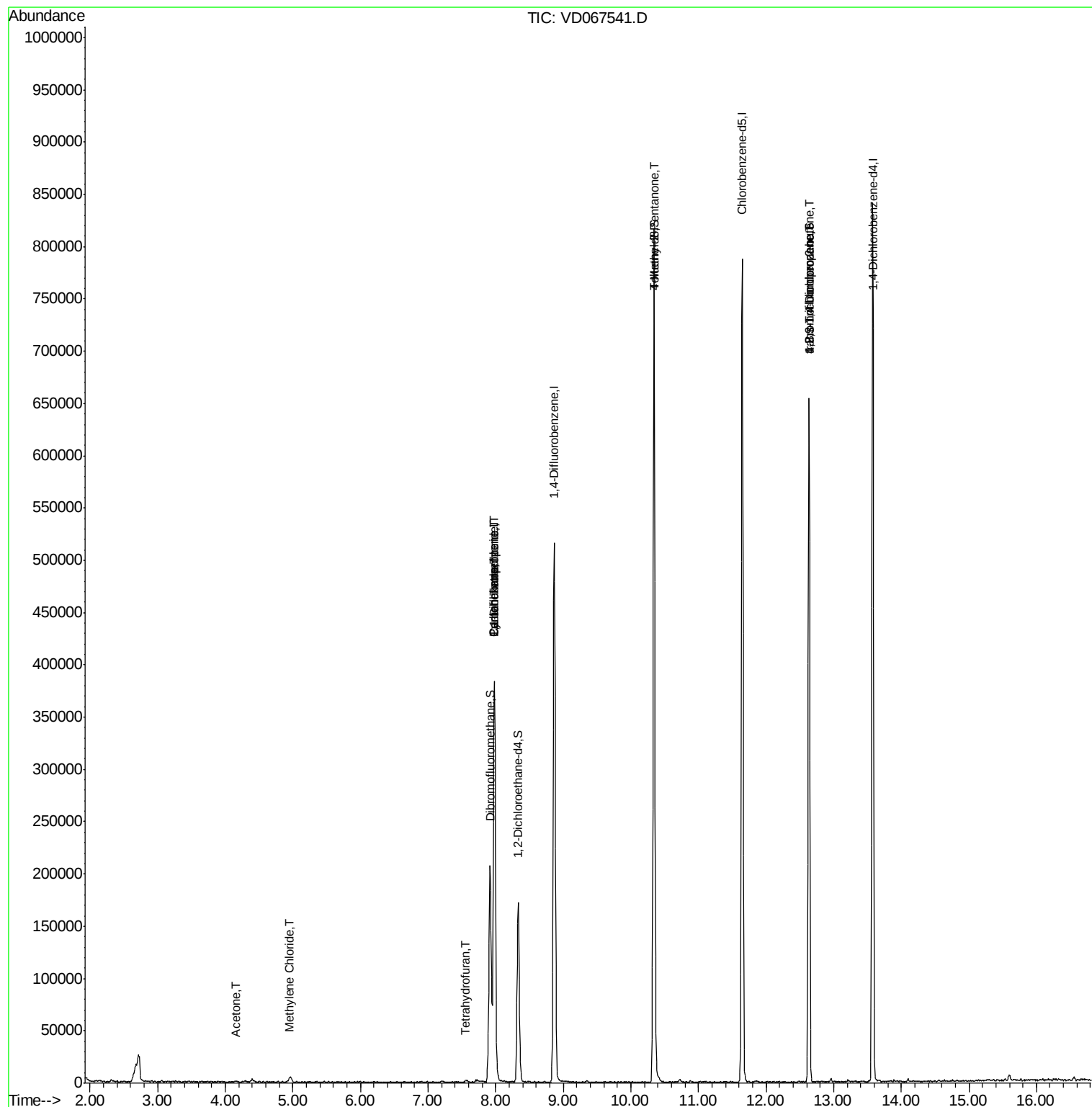
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 54       | Below Cal | #      | 44     |
| 16) Acetone                    | 4.16  | 43   | 904      | 2.318     | ug/l # | 43     |
| 20) Methylene Chloride         | 4.95  | 84   | 4544     | 1.650     | ug/l # | 75     |
| 29) Tetrahydrofuran            | 7.56  | 42   | 424      | 1.699     | ug/l # | 68     |
| 31) Cyclohexane                | 7.98  | 56   | 5946     | 1.573     | ug/l # | 49     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 20939    | 5.221     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 30490    | 5.851     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 2351     | 2.387     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 107279   | 78.143    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 107279   | 158.651   | ug/l # | 10     |

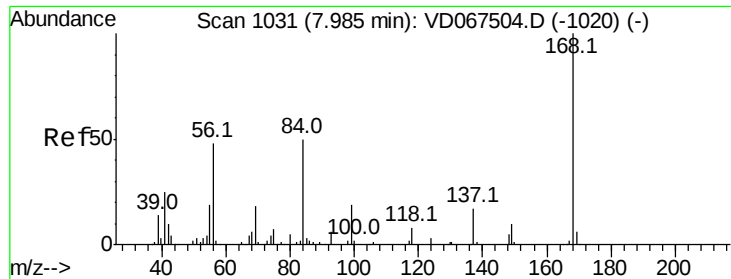
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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Quant Time: Nov 06 00:15:42 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

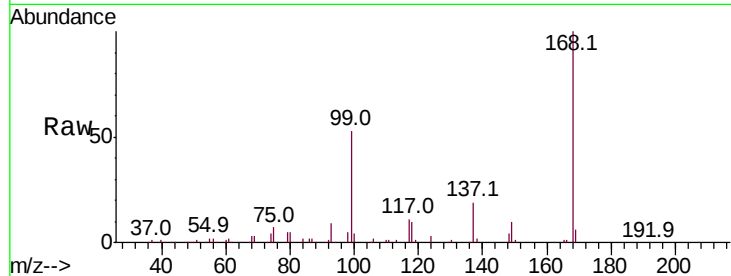
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 298004

Ion Ratio Lower Upper

168 100

99 52.7 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

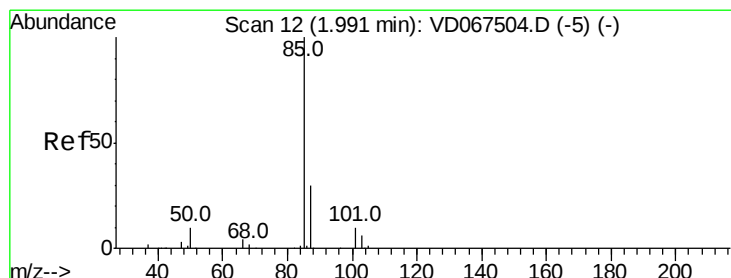
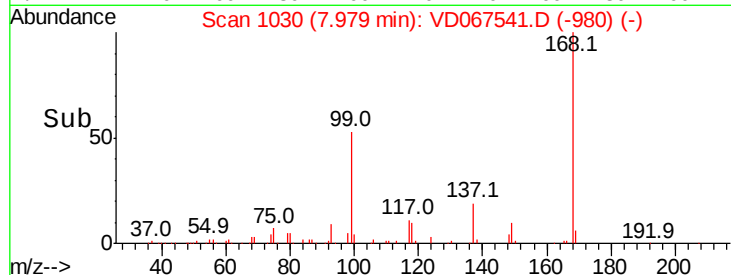
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD067541.D

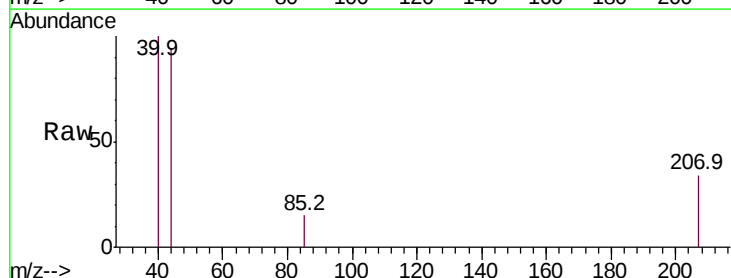
Acq: 05 Nov 2020 17:07

Tgt Ion: 85 Resp: 54

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

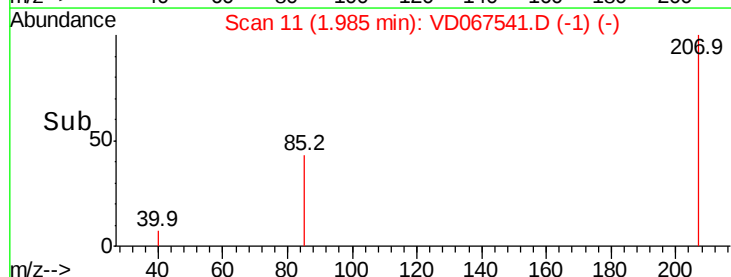
150

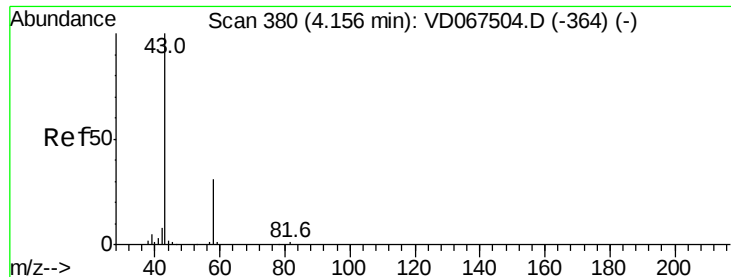
100

50

0

Time-->





#16

Acetone

Concen: 2.318 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Instrument :

MSVOA\_D

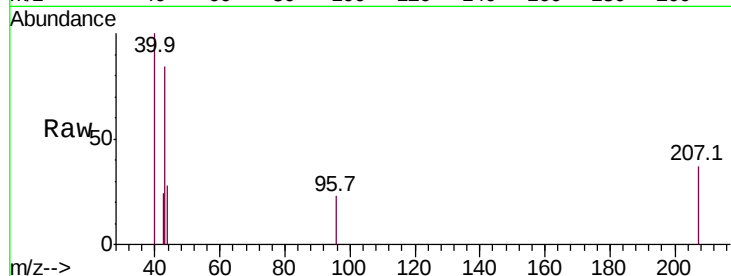
ClientSampleId :

Tot Ion: 43 Resp: 904

Ion Ratio Lower Upper

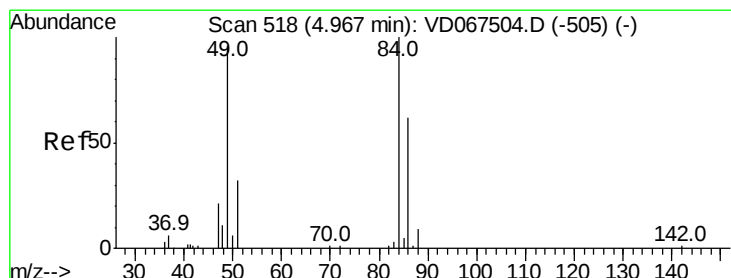
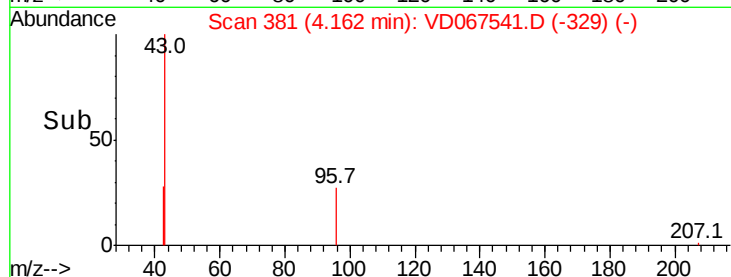
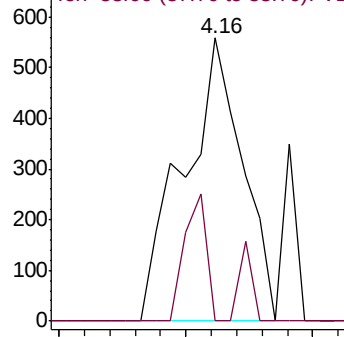
43 100

58 0.0 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 1.650 ug/l

RT: 4.95 min Scan# 515

Delta R.T. -0.02 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Tgt Ion: 84 Resp: 4544

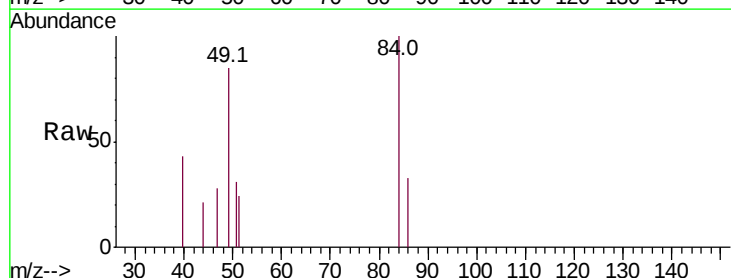
Ion Ratio Lower Upper

84 100

49 84.6 77.0 115.4

51 55.8 25.4 38.2#

86 33.5 49.4 74.0#

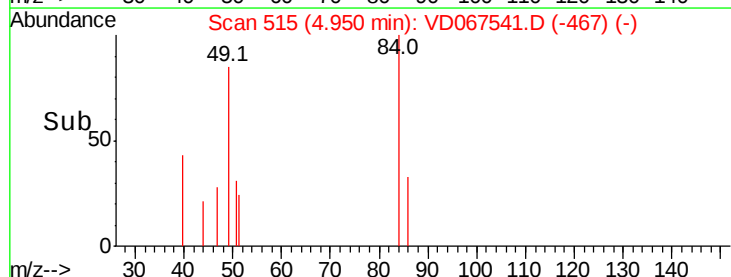
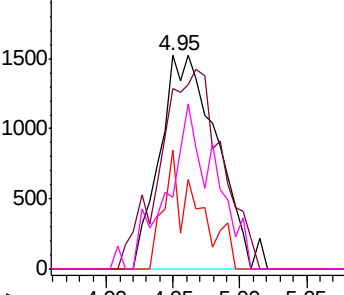


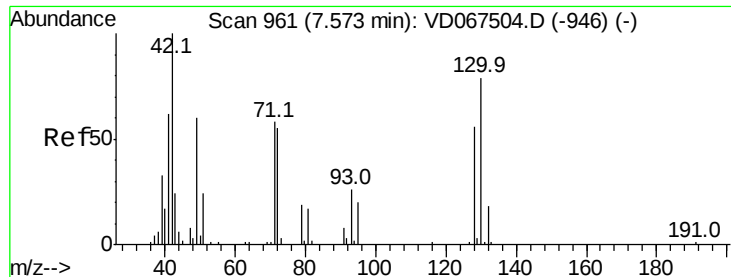
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#29

Tetrahydrofuran

Concen: 1.699 ug/l

RT: 7.56 min Scan# 958

Delta R.T. -0.02 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Instrument :

MSVOA\_D

ClientSampled :

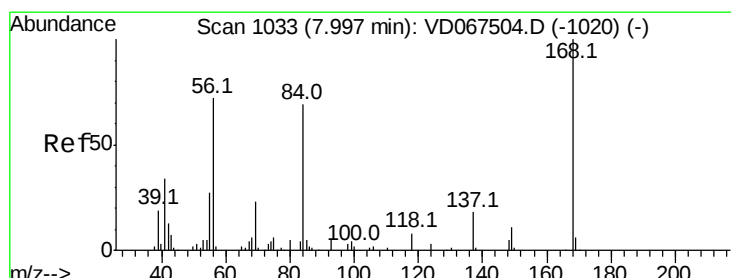
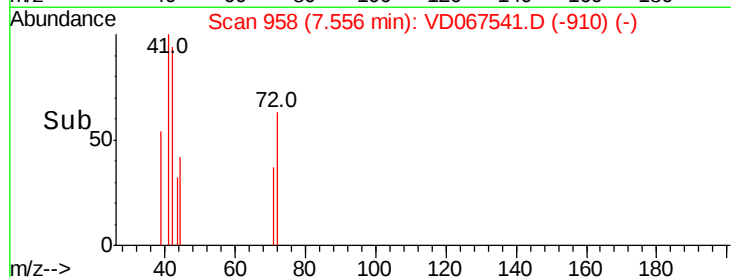
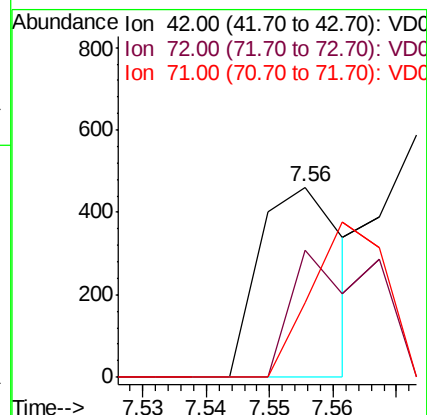
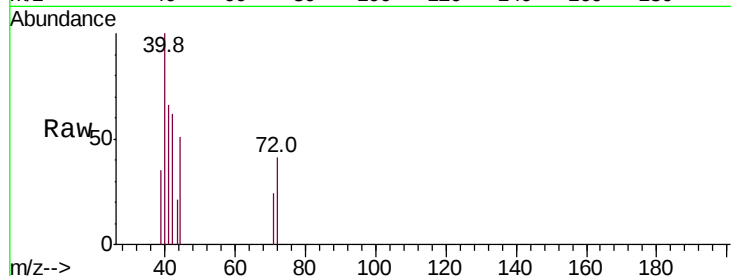
Tot Ion: 42 Resp: 424

Ion Ratio Lower Upper

42 100

72 66.3 46.3 69.5

71 94.3 44.0 66.0#



#31

Cyclohexane

Concen: 1.573 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.02 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

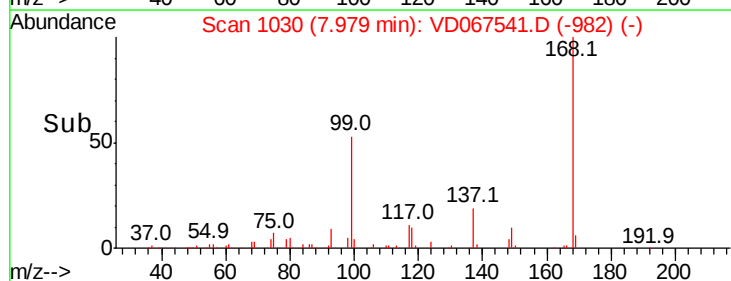
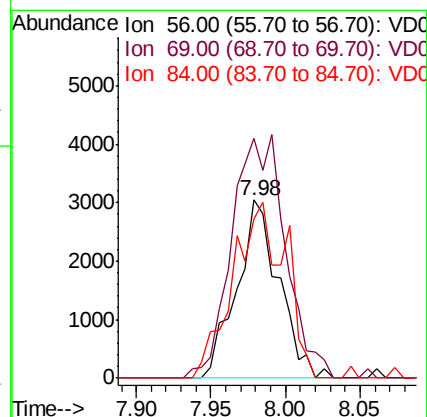
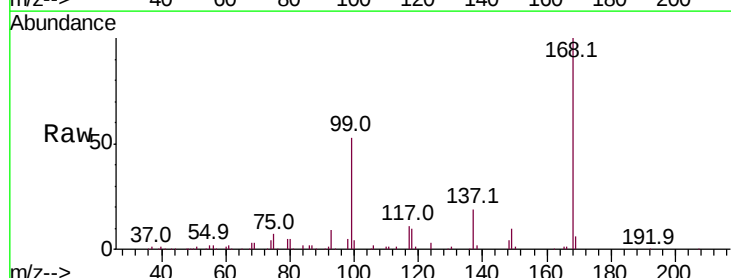
Tgt Ion: 56 Resp: 5946

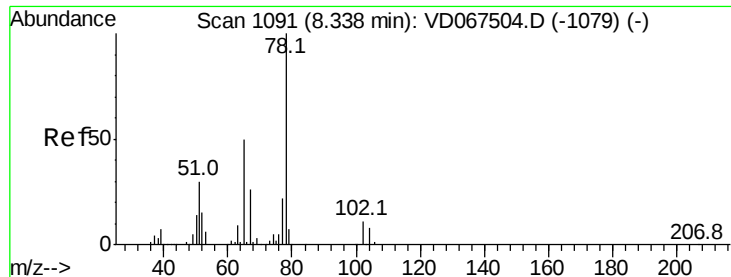
Ion Ratio Lower Upper

56 100

69 134.9 25.9 38.9#

84 89.3 76.2 114.4

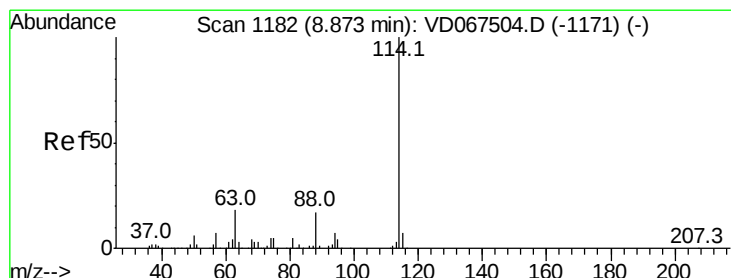
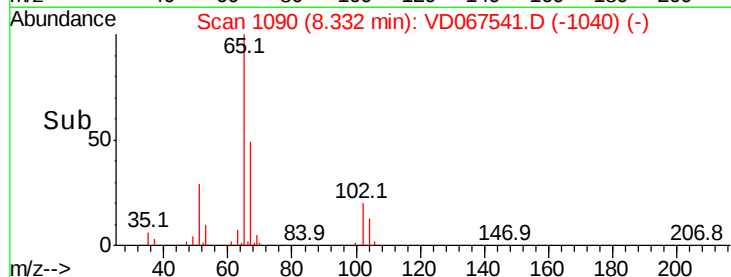
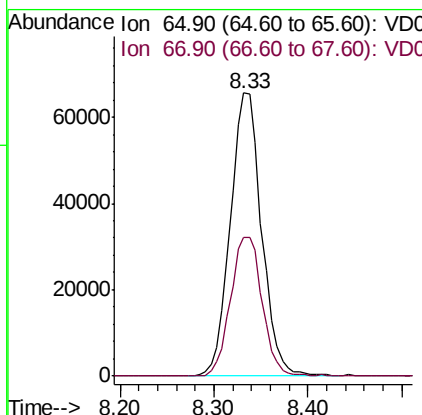
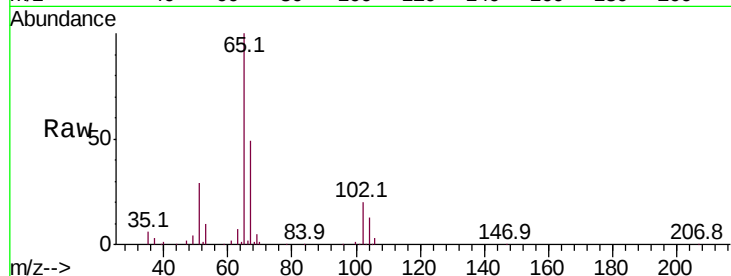




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.061 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD067541.D  
 Acq: 05 Nov 2020 17:07

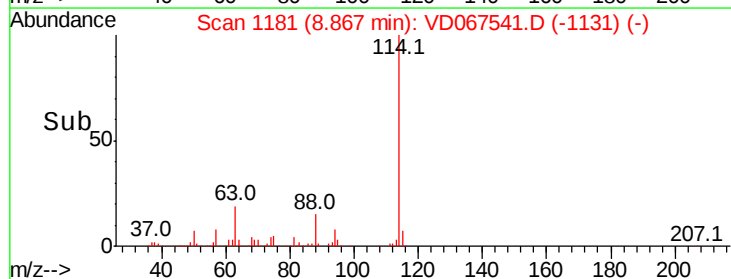
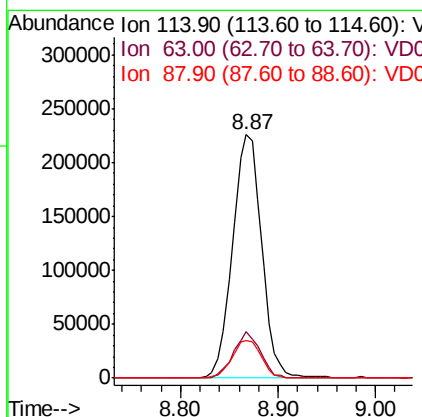
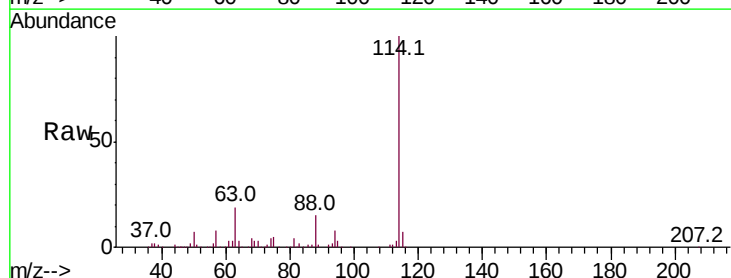
Instrument :  
 MSVOA\_D  
 ClientSampleId :

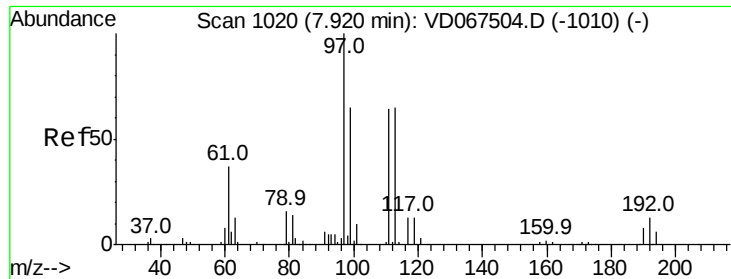
Tot Ion: 65 Resp: 151290  
 Ion Ratio Lower Upper  
 65 100  
 67 49.6 0.0 99.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.01 min  
 Lab File: VD067541.D  
 Acq: 05 Nov 2020 17:07

Tgt Ion: 114 Resp: 468569  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 35.0  
 88 15.3 0.0 33.0

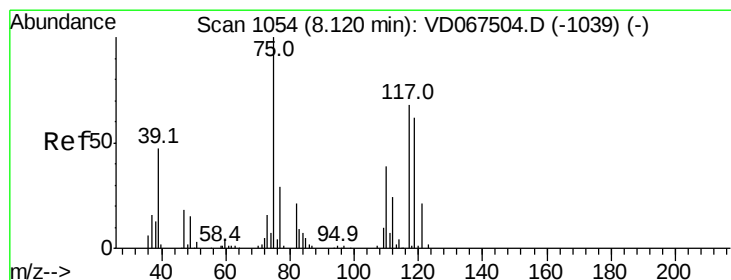
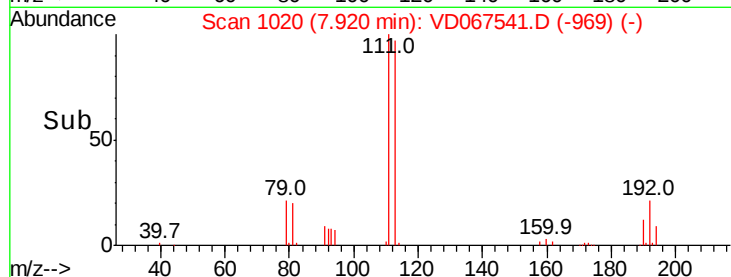
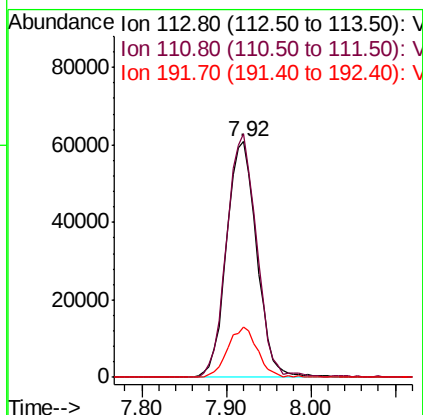
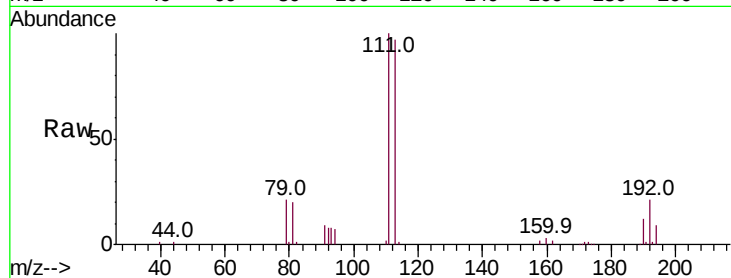




#35  
 Dibromofluoromethane  
 Concen: 53.117 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD067541.D  
 Acq: 05 Nov 2020 17:07

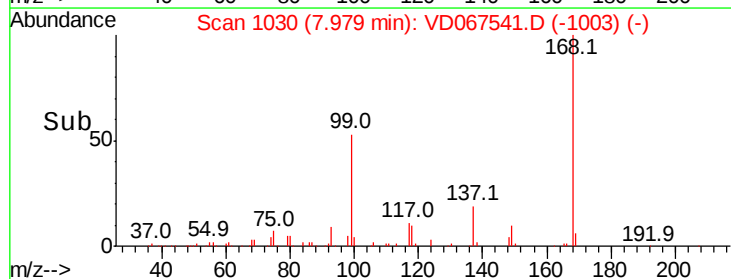
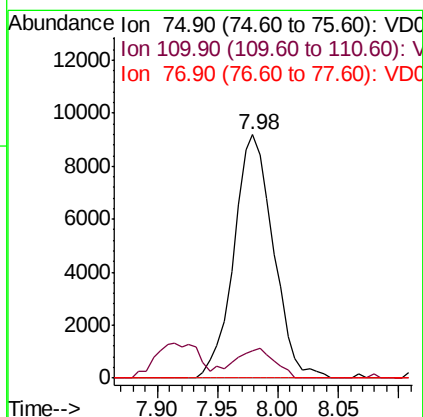
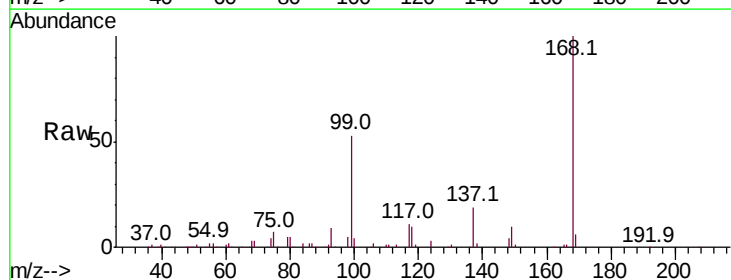
Instrument :  
 MSVOA\_D  
 ClientSampleId :

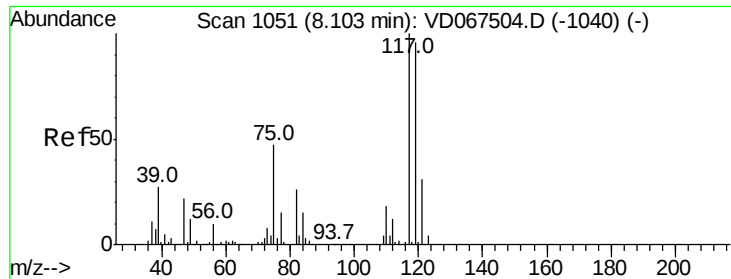
Tot Ion:113 Resp: 149956  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 80.0 120.0  
 192 20.9 16.3 24.5



#36  
 1,1-Dichloropropene  
 Concen: 5.221 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD067541.D  
 Acq: 05 Nov 2020 17:07

Tgt Ion: 75 Resp: 20939  
 Ion Ratio Lower Upper  
 75 100  
 110 11.3 19.9 59.7#  
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 5.851 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Instrument :

MSVOA\_D

ClientSampled :

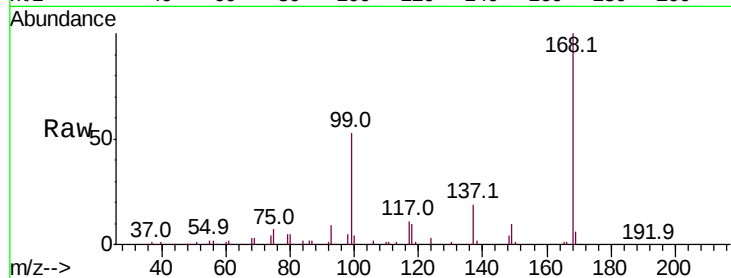
Tot Ion:117 Resp: 30490

Ion Ratio Lower Upper

117 100

119 5.8 76.9 115.3#

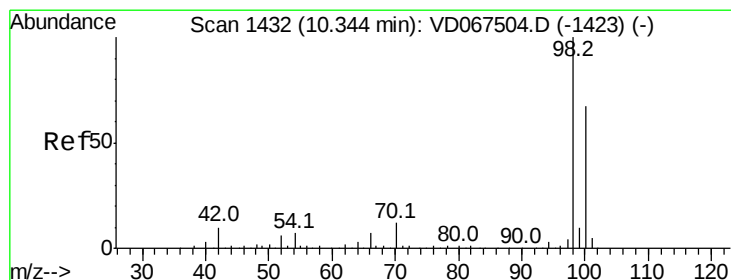
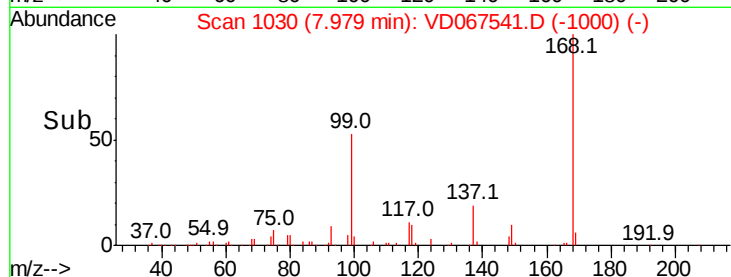
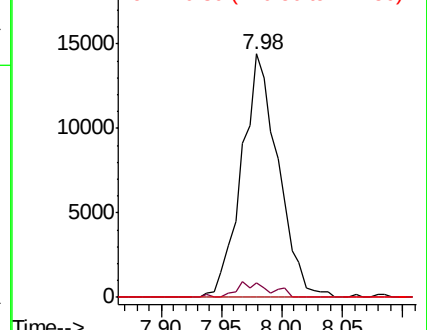
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 56.095 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067541.D

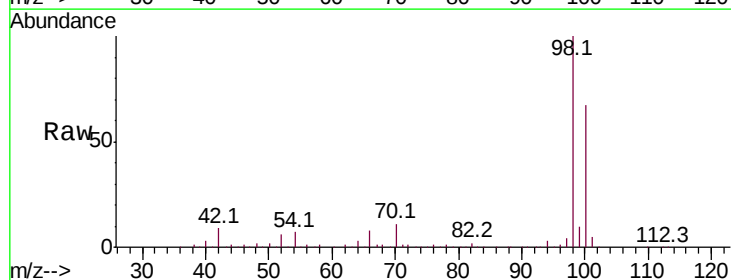
Acq: 05 Nov 2020 17:07

Tgt Ion: 98 Resp: 556525

Ion Ratio Lower Upper

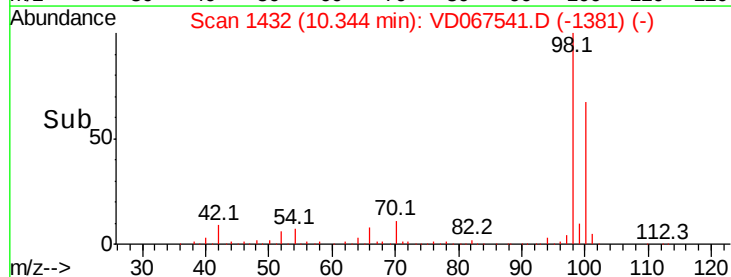
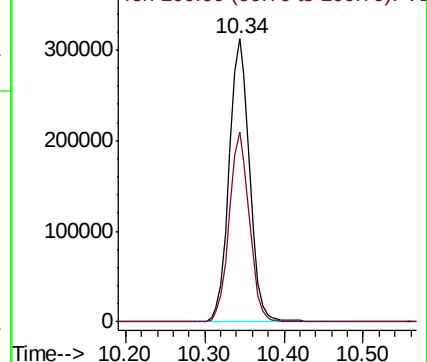
98 100

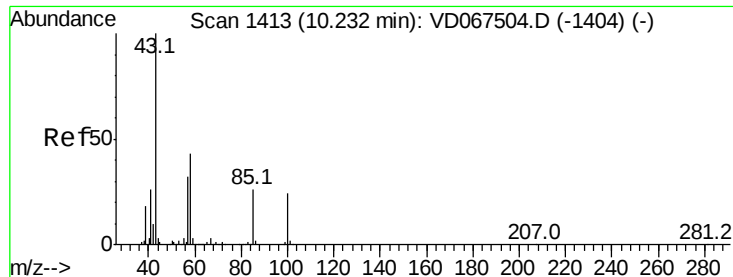
100 65.8 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 2.387 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Instrument :

MSVOA\_D

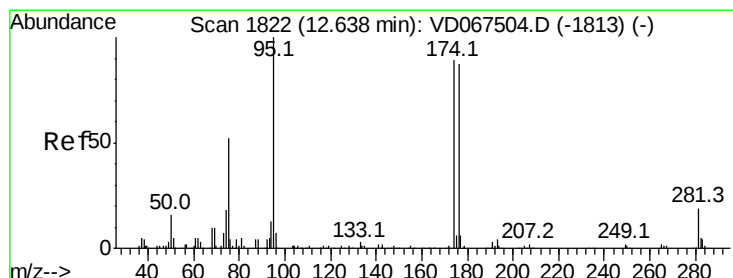
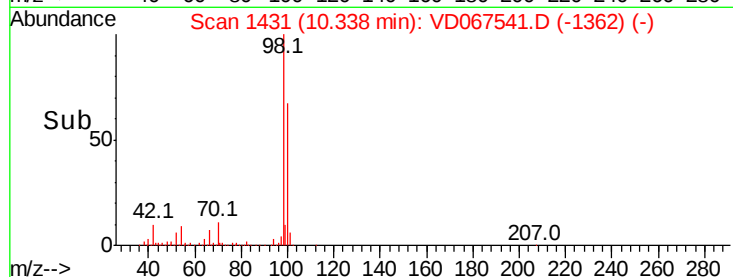
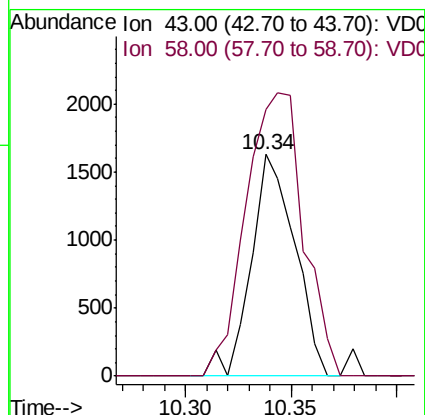
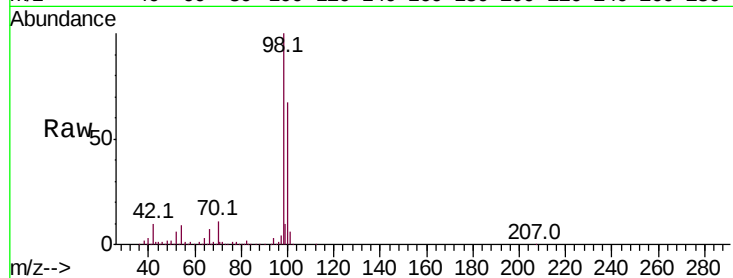
ClientSampleId :

Tot Ion: 43 Resp: 2351

Ion Ratio Lower Upper

43 100

58 168.2 35.6 53.4#



#62

4-Bromofluorobenzene

Concen: 60.155 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

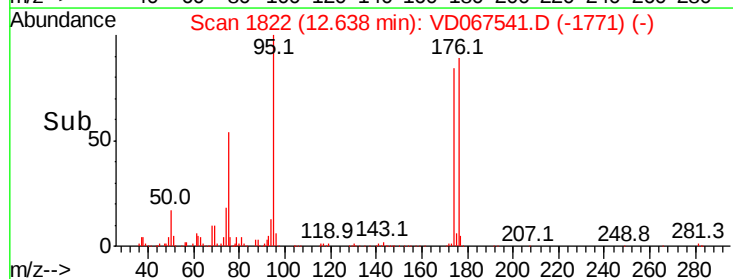
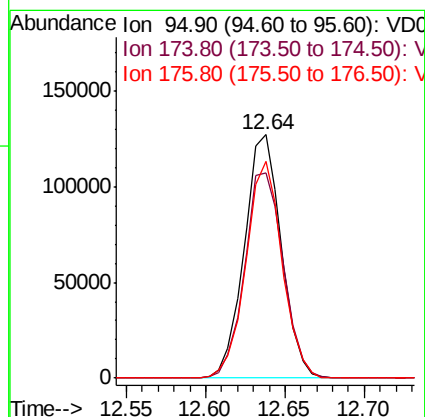
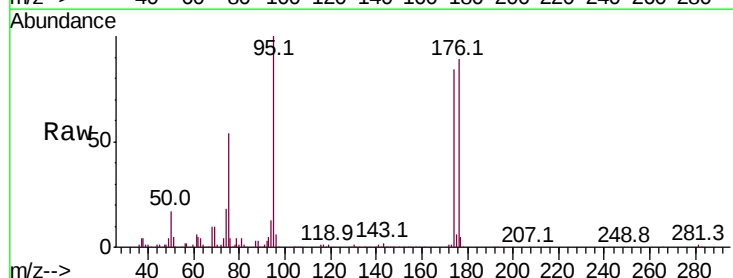
Tgt Ion: 95 Resp: 206043

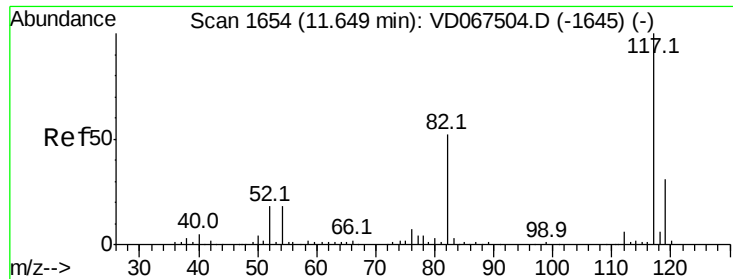
Ion Ratio Lower Upper

95 100

174 88.2 0.0 177.8

176 87.1 0.0 172.0

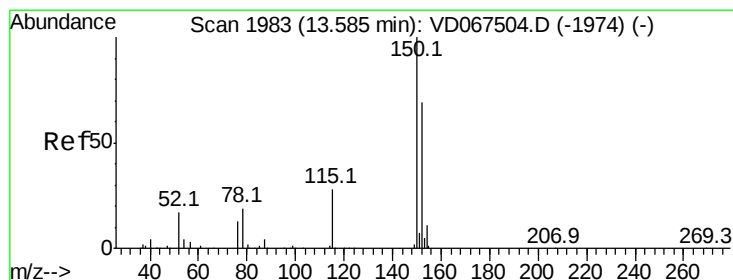
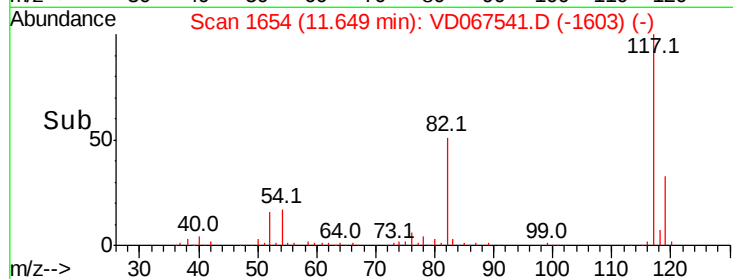
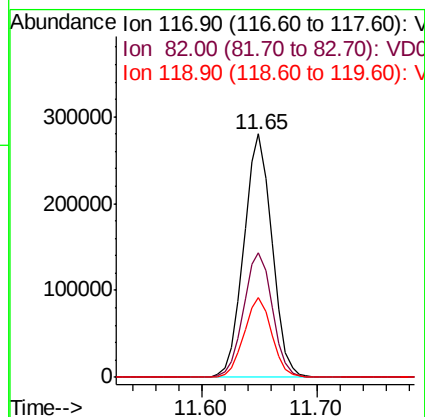
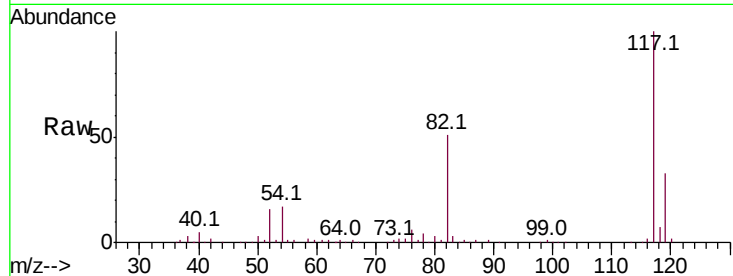




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.65 min Scan# 1654  
 Delta R.T. -0.00 min  
 Lab File: VD067541.D  
 Acq: 05 Nov 2020 17:07

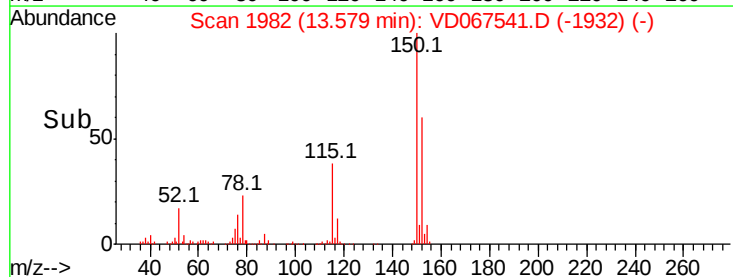
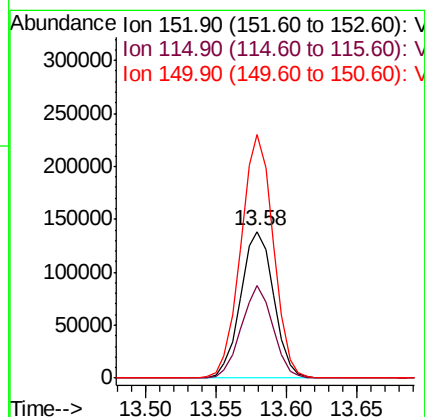
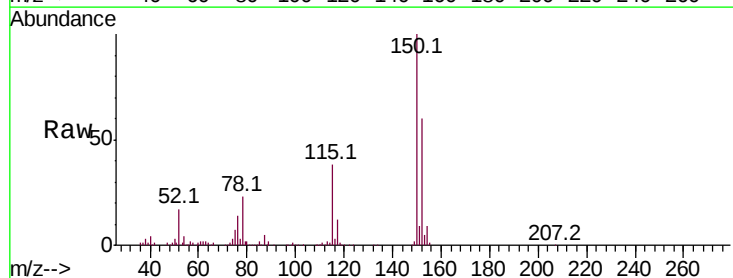
Instrument :  
 MSVOA\_D  
 ClientSampleId :

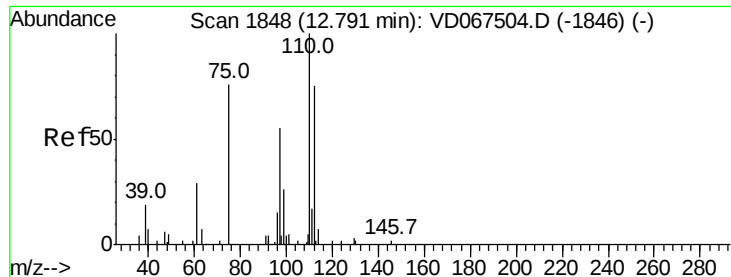
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 117   | Resp: | 475012 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 50.9  | 41.6  | 62.4   |
| 119      | 32.5  | 25.1  | 37.7   |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.58 min Scan# 1982  
 Delta R.T. -0.01 min  
 Lab File: VD067541.D  
 Acq: 05 Nov 2020 17:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 227574 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 60.3  | 29.3  | 88.0   |
| 150      | 162.4 | 0.0   | 338.2  |





#76

1,2,3-Trichloropropane

Concen: 78.143 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Instrument :

MSVOA\_D

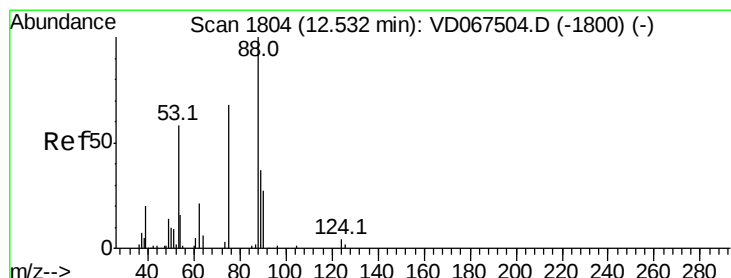
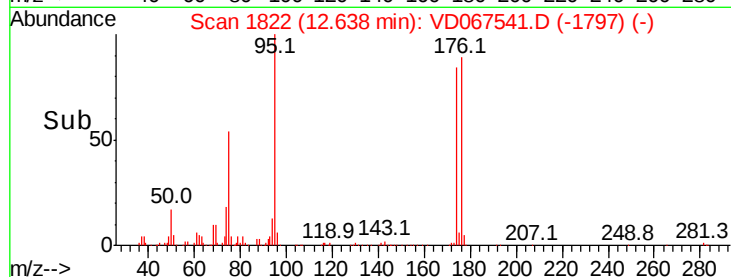
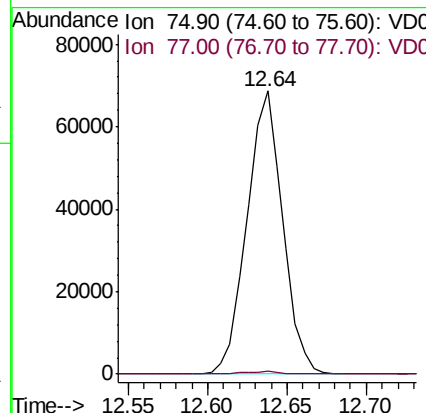
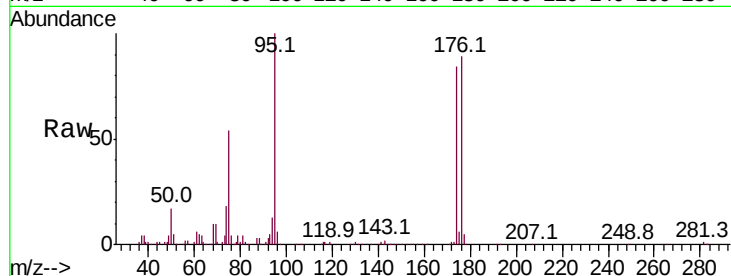
ClientSampleId :

Tot Ion: 75 Resp: 107279

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 158.651 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067541.D

Acq: 05 Nov 2020 17:07

Tgt Ion: 75 Resp: 107279

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.2 44.6 67.0#

