

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD061920\  
 Data File : VD065837.D  
 Acq On : 19 Jun 2020 19:08  
 Operator : VA/SY  
 Sample : L3035-04  
 Misc : 7.65G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 1-UNIVERSITY-SW-5

Quant Time: Jun 20 01:28:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 138924   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 251326   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 226623   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 93314    | 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   | 80167    | 58.40 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 78321    | 49.34 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |
| 50) Toluene-d8              | 10.34 | 98   | 282240   | 47.68 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 78348    | 39.03 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |

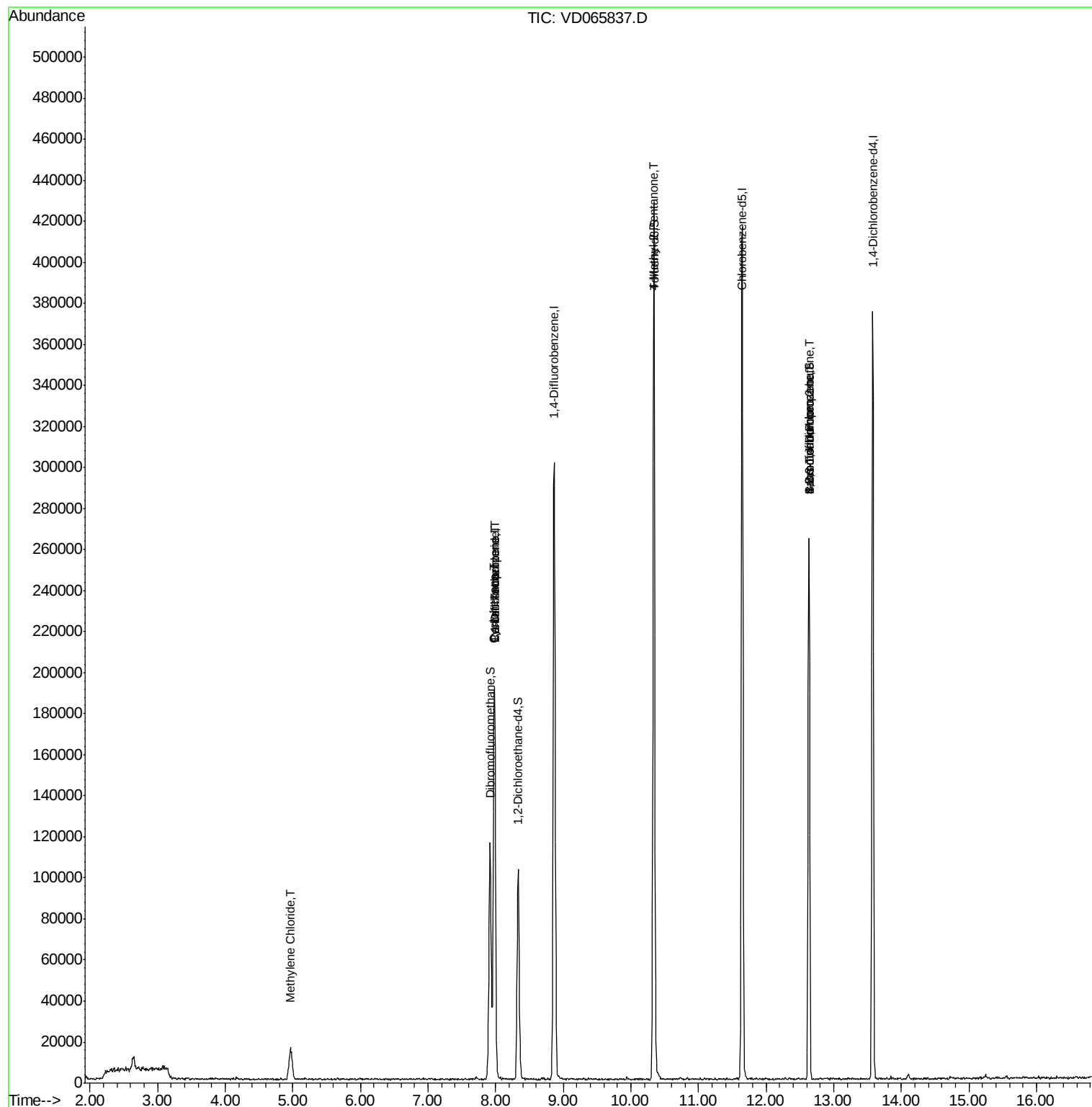
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.21  | 50   | 55       | Below Cal | #      | 43     |
| 18) Methyl Acetate             | 4.67  | 43   | 67       | Below Cal | #      | 52     |
| 20) Methylene Chloride         | 4.97  | 84   | 11409    | 4.223     | ug/l   | 93     |
| 31) Cyclohexane                | 7.97  | 56   | 3972     | 1.613     | ug/l # | 29     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 12876    | 5.348     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 15070    | 5.948     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 1657     | 1.793     | ug/l # | 1      |
| 71) Bromoform                  | 12.63 | 173  | 1079     | 1.188     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 46690    | 64.336    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 46690    | 139.007   | ug/l # | 9      |

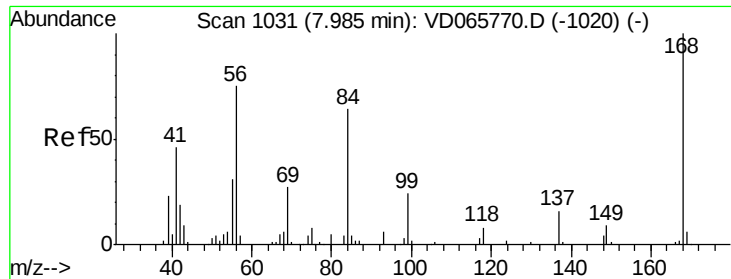
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD061920\  
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Sample : L3035-04  
Misc : 7.65G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
1-UNIVERSITY-SW-5

Quant Time: Jun 20 01:28:04 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 05 13:07:30 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

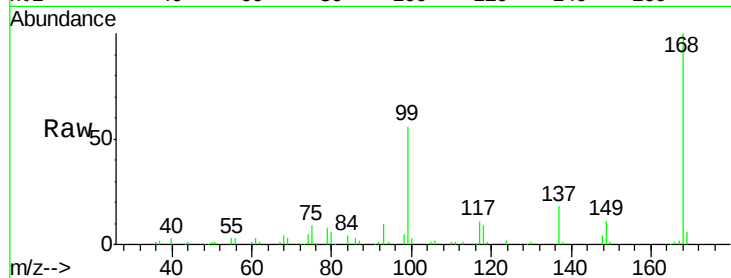
1-UNIVERSITY-SW-5

Tgt Ion:168 Resp: 138924

Ion Ratio Lower Upper

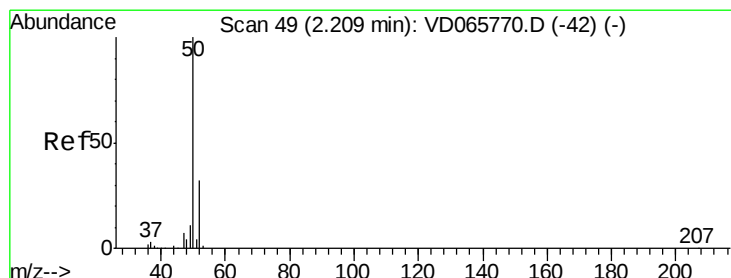
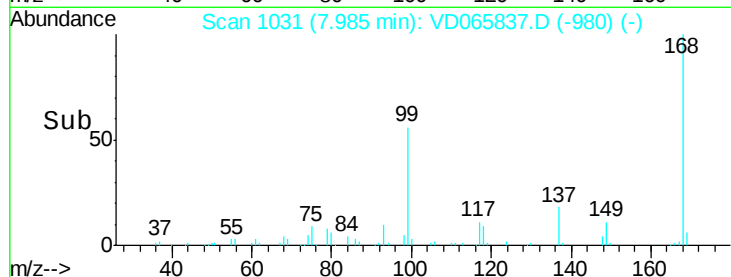
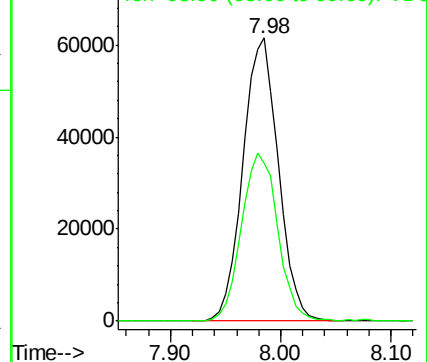
168 100

99 56.0 45.3 67.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065837.D

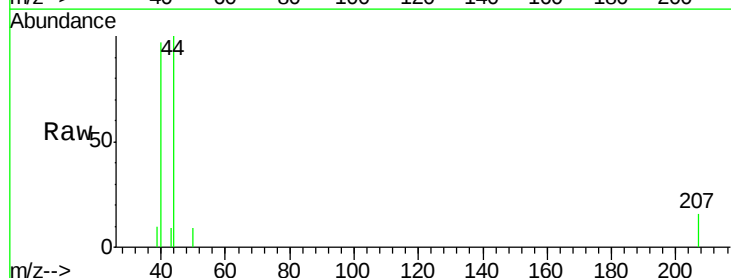
Acq: 19 Jun 2020 19:08

Tgt Ion: 50 Resp: 55

Ion Ratio Lower Upper

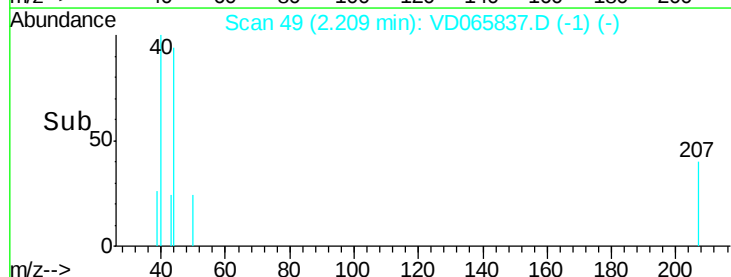
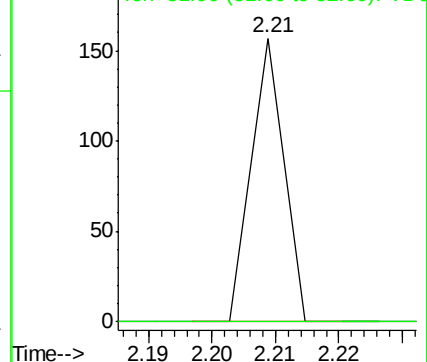
50 100

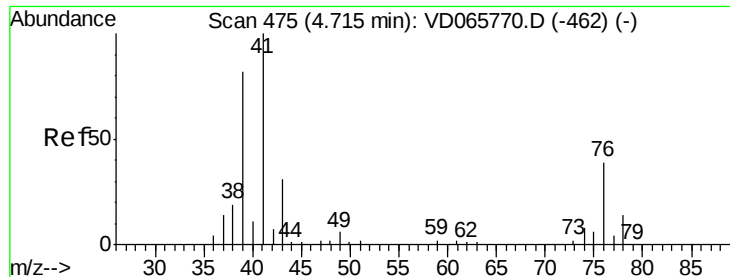
52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

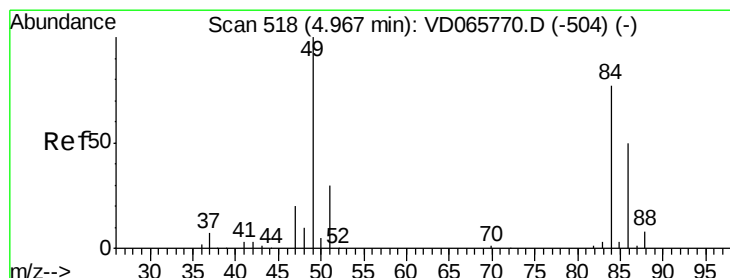
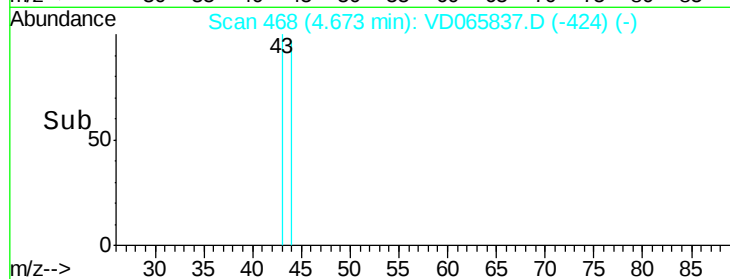
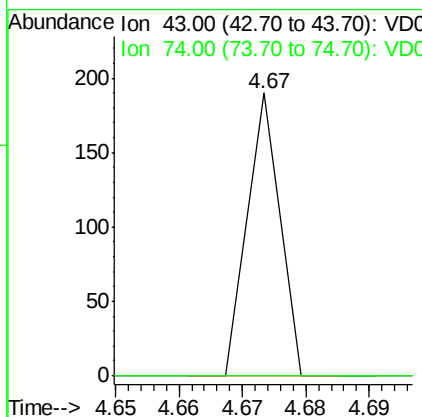
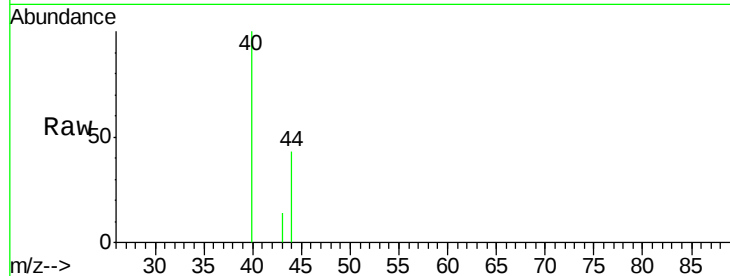




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.67 min Scan# 468  
Delta R.T. -0.04 min  
Lab File: VD065837.D  
Acq: 19 Jun 2020 19:08

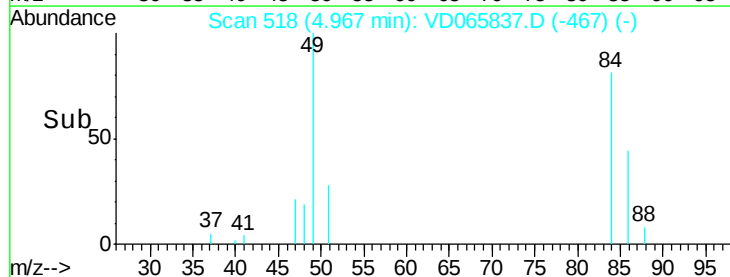
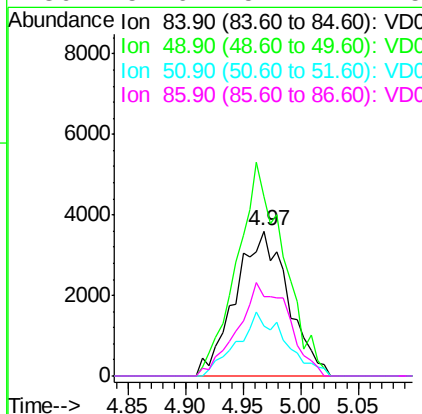
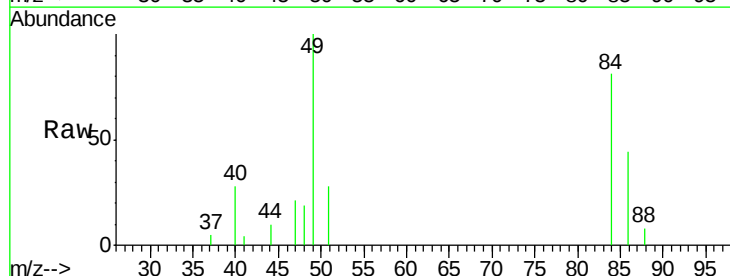
Instrument :  
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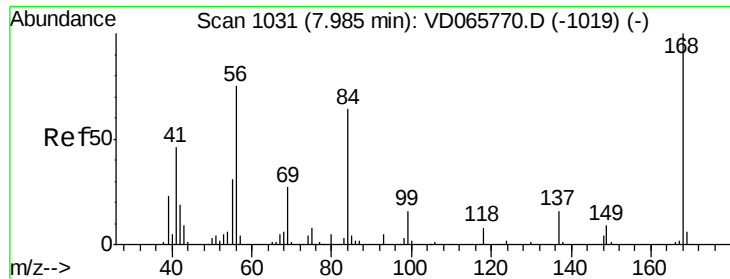
Tgt Ion: 43 Resp: 67  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.7 28.1#



#20  
Methylene Chloride  
Concen: 4.223 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD065837.D  
Acq: 19 Jun 2020 19:08

Tgt Ion: 84 Resp: 11409  
Ion Ratio Lower Upper  
84 100  
49 124.1 103.4 155.0  
51 34.1 31.4 47.2  
86 54.6 51.7 77.5

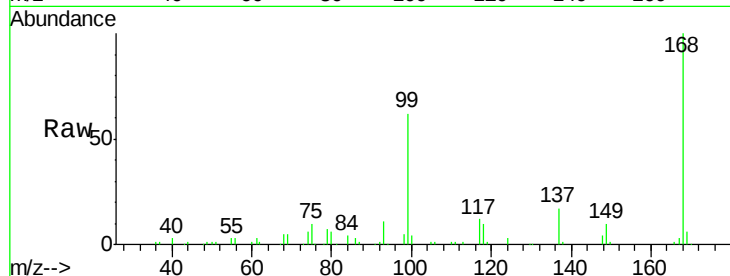




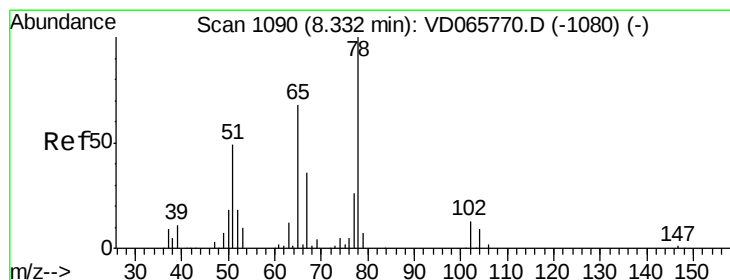
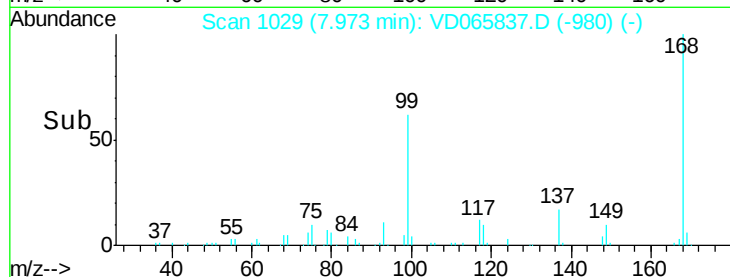
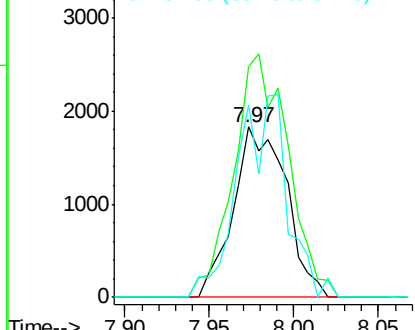
#31  
Cyclohexane  
Concen: 1.613 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD065837.D  
Acq: 19 Jun 2020 19:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
1-UNIVERSITY-SW-5

Tgt Ion: 56 Resp: 3972  
Ion Ratio Lower Upper  
56 100  
69 135.3 28.5 42.7#  
84 112.9 68.4 102.6#

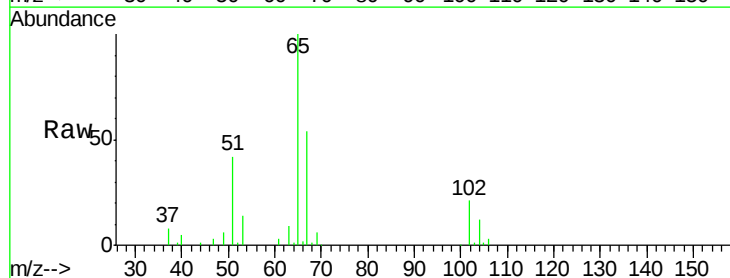


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

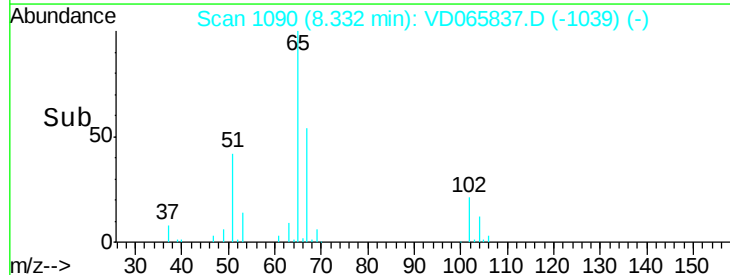
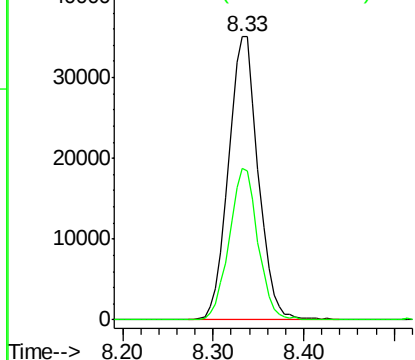


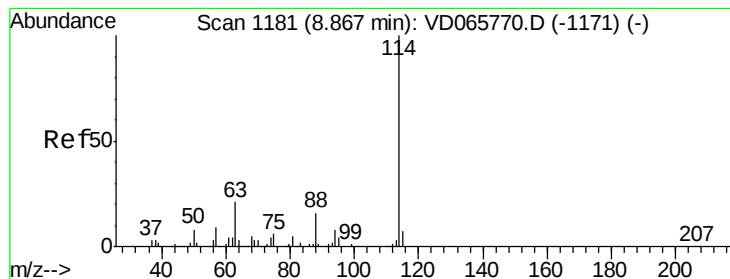
#33  
1,2-Dichloroethane-d4  
Concen: 58.399 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.00 min  
Lab File: VD065837.D  
Acq: 19 Jun 2020 19:08

Tgt Ion: 65 Resp: 80167  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

1-UNIVERSITY-SW-5

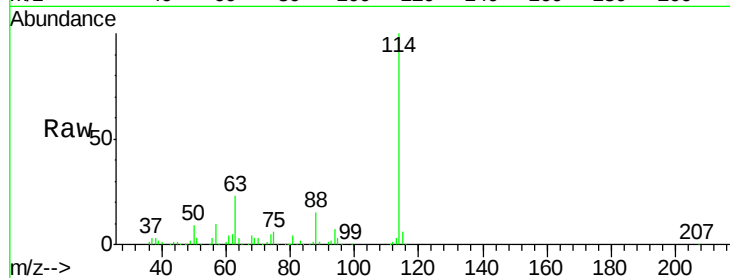
Tgt Ion:114 Resp: 251326

Ion Ratio Lower Upper

114 100

63 22.8 0.0 41.8

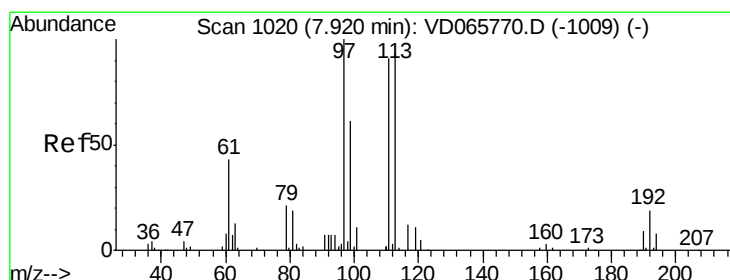
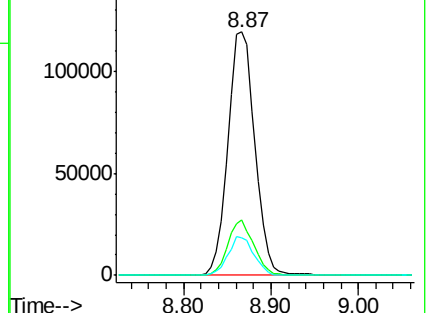
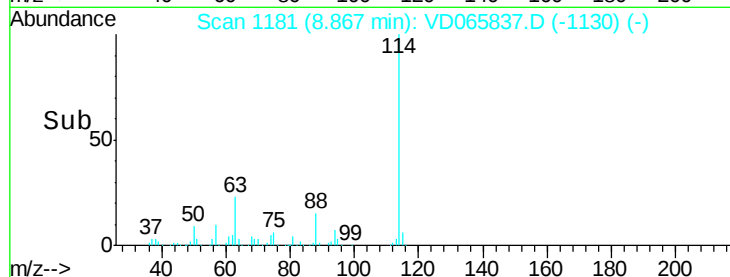
88 15.5 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 49.335 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

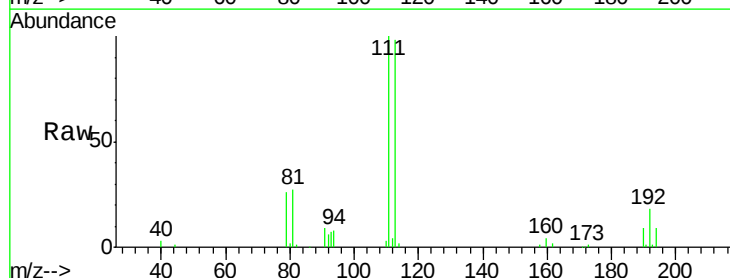
Tgt Ion:113 Resp: 78321

Ion Ratio Lower Upper

113 100

111 104.6 83.4 125.0

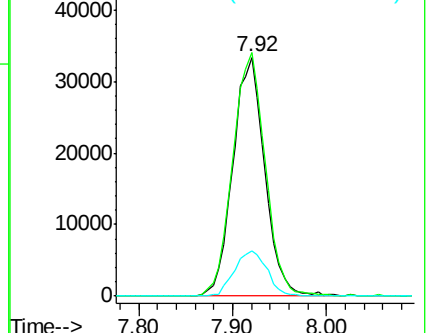
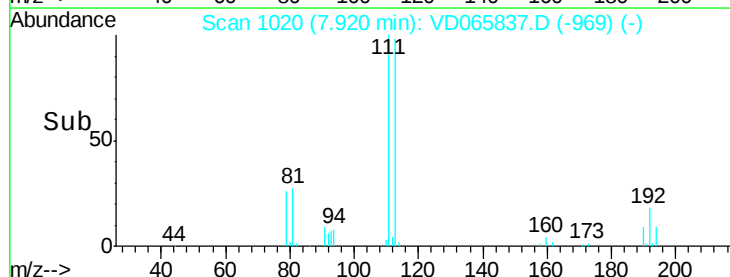
192 19.4 15.7 23.5

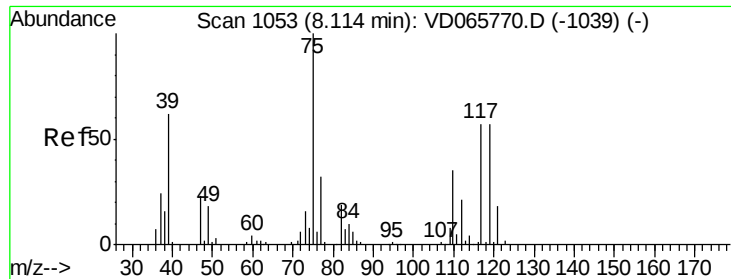


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

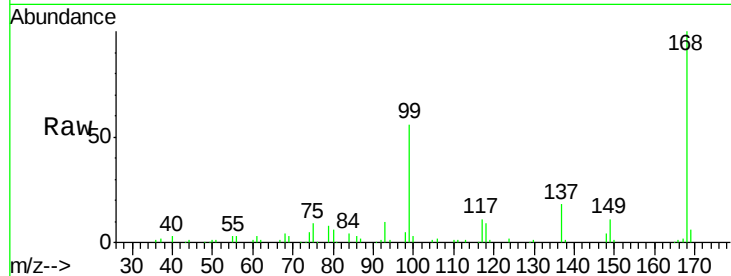




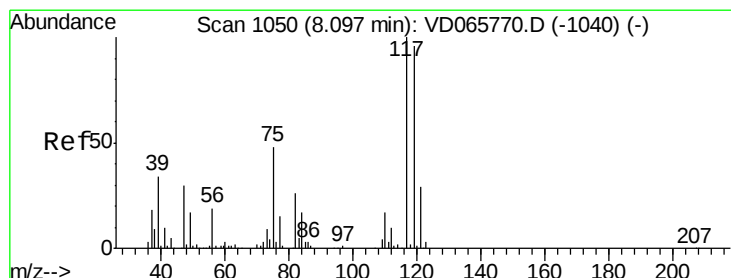
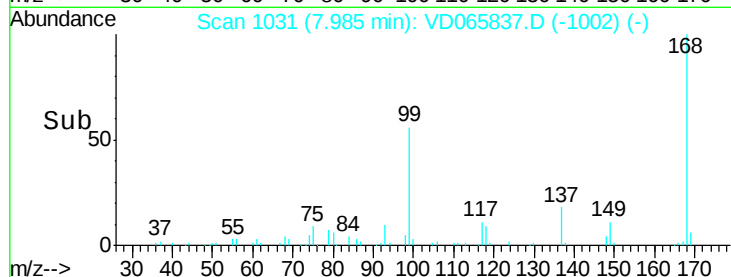
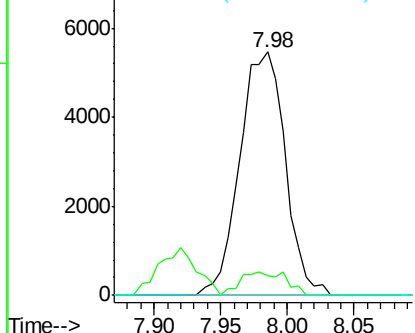
#36  
 1,1-Dichloropropene  
 Concen: 5.348 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD065837.D  
 Acq: 19 Jun 2020 19:08

Instrument :  
 MSVOA\_D  
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 1-UNIVERSITY-SW-5

Tgt Ion: 75 Resp: 12876  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 17.6 52.8#  
 77 0.0 25.1 37.7#

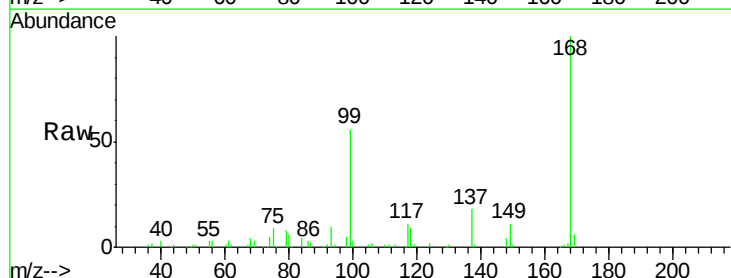


Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): V

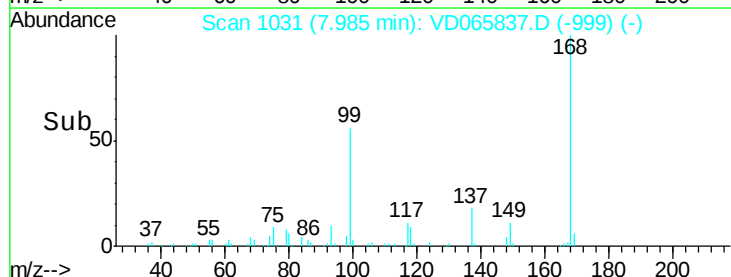
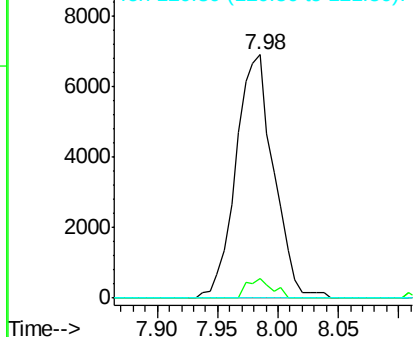


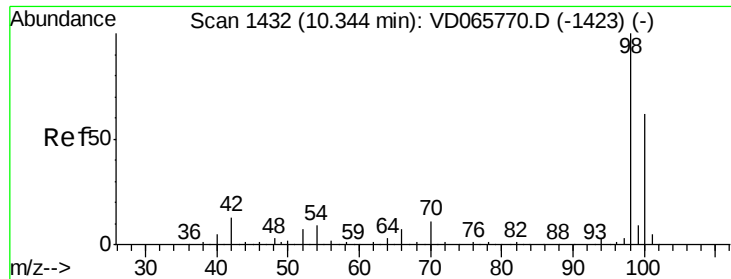
#38  
 Carbon Tetrachloride  
 Concen: 5.948 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.11 min  
 Lab File: VD065837.D  
 Acq: 19 Jun 2020 19:08

Tgt Ion: 117 Resp: 15070  
 Ion Ratio Lower Upper  
 117 100  
 119 8.2 76.8 115.2#  
 121 0.0 23.4 35.2#



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: 47.678 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

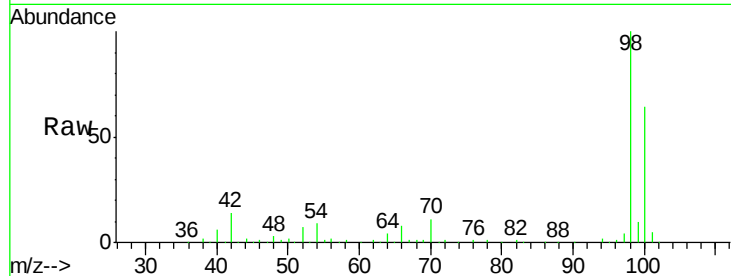
1-UNIVERSITY-SW-5

Tgt Ion: 98 Resp: 282240

Ion Ratio Lower Upper

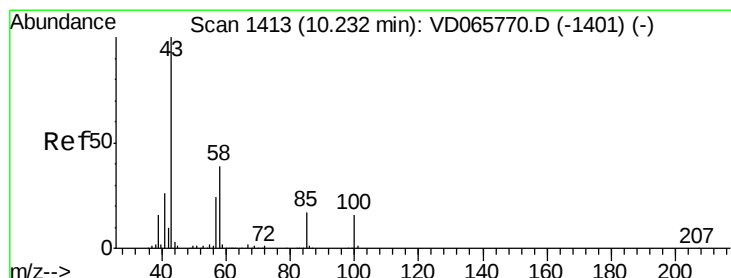
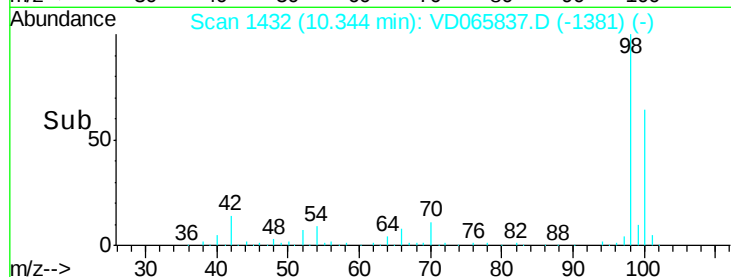
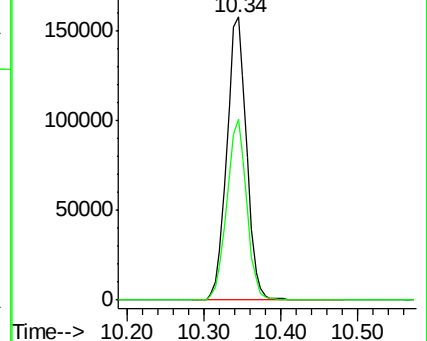
98 100

100 64.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.793 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.10 min

Lab File: VD065837.D

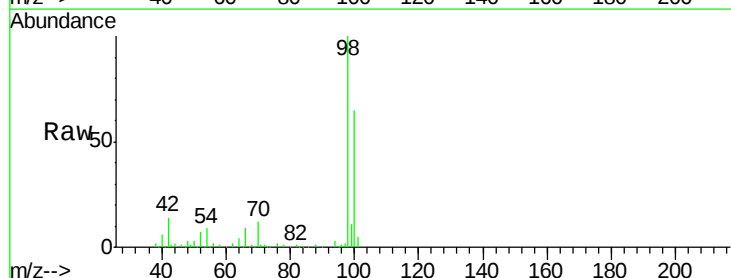
Acq: 19 Jun 2020 19:08

Tgt Ion: 43 Resp: 1657

Ion Ratio Lower Upper

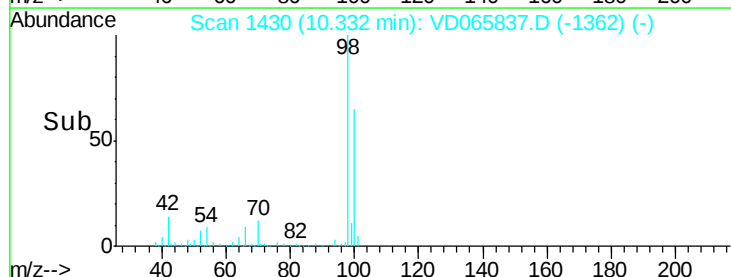
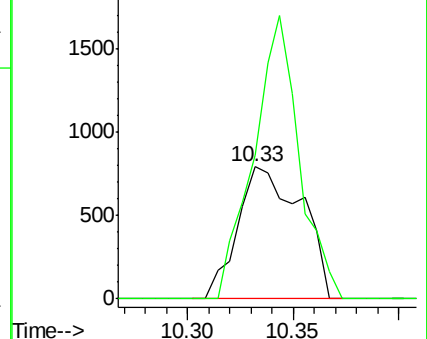
43 100

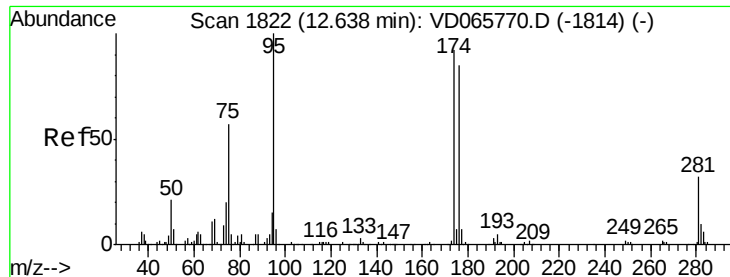
58 154.0 30.7 46.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 39.026 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

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MSVOA\_D

ClientSampleId :

1-UNIVERSITY-SW-5

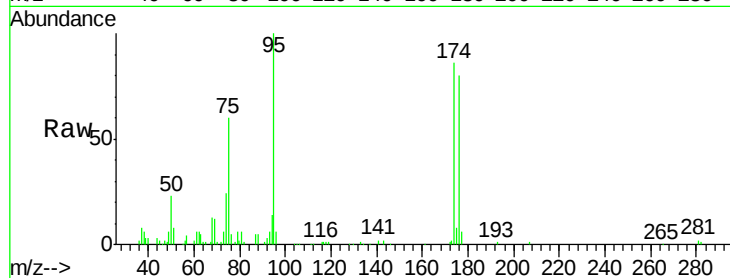
Tgt Ion: 95 Resp: 78348

Ion Ratio Lower Upper

95 100

174 83.9 0.0 175.2

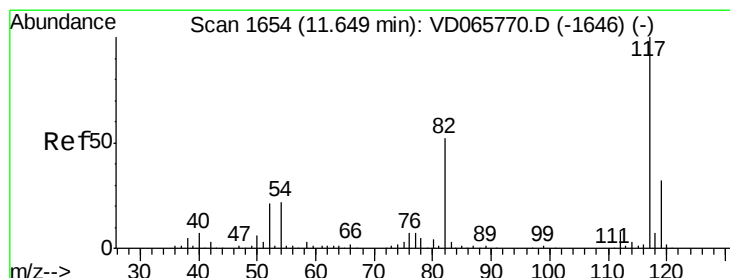
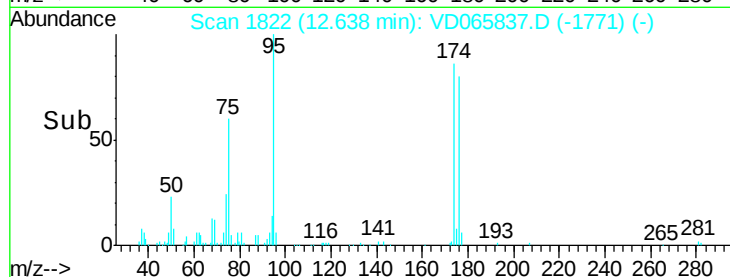
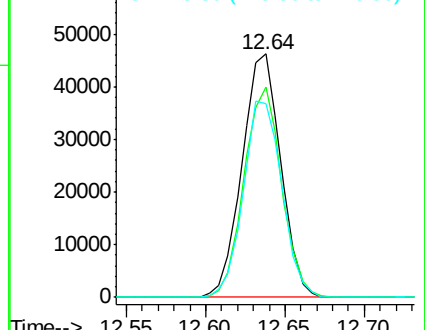
176 80.6 0.0 163.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

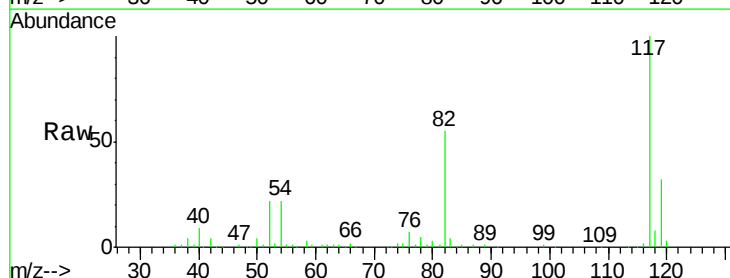
Tgt Ion: 117 Resp: 226623

Ion Ratio Lower Upper

117 100

82 55.2 41.9 62.9

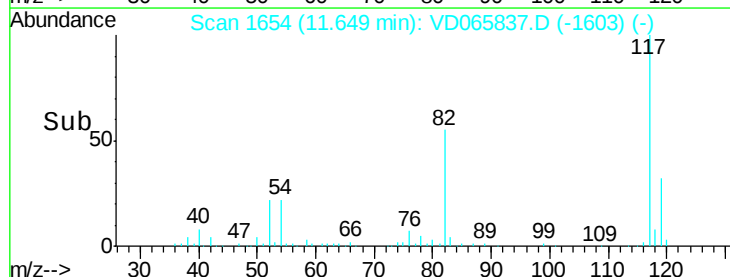
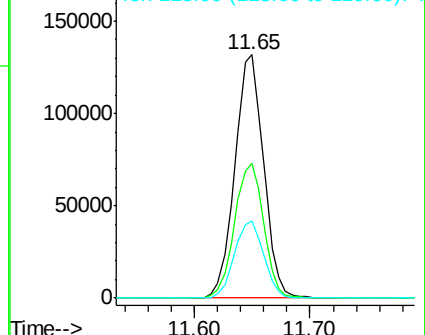
119 31.9 25.3 37.9

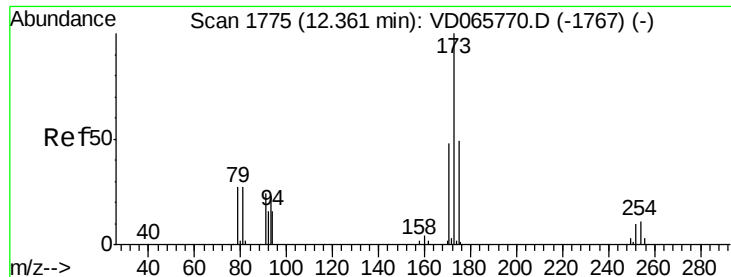


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.188 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

1-UNIVERSITY-SW-5

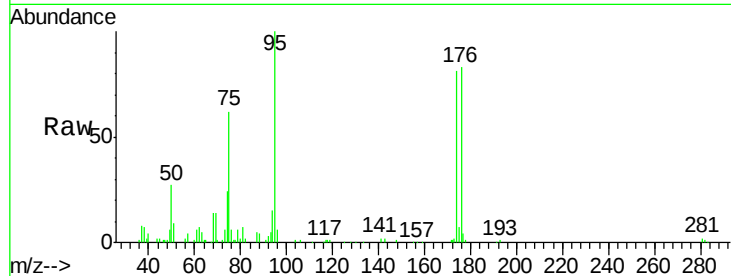
Tgt Ion:173 Resp: 1079

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

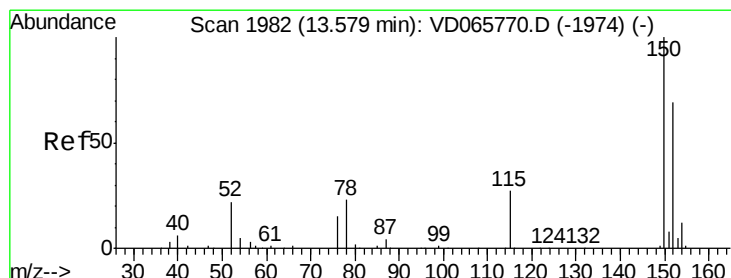
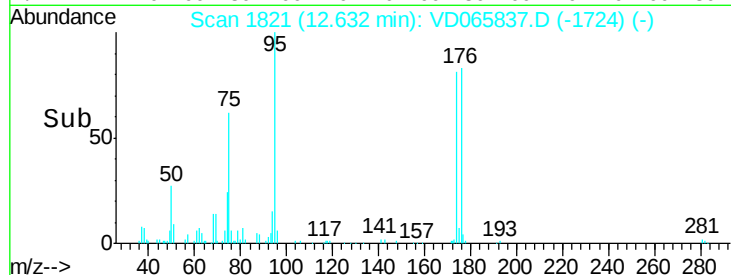
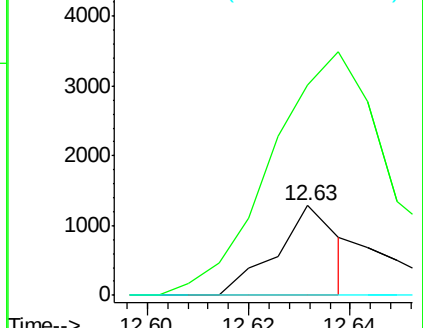
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD065837.D

Acq: 19 Jun 2020 19:08

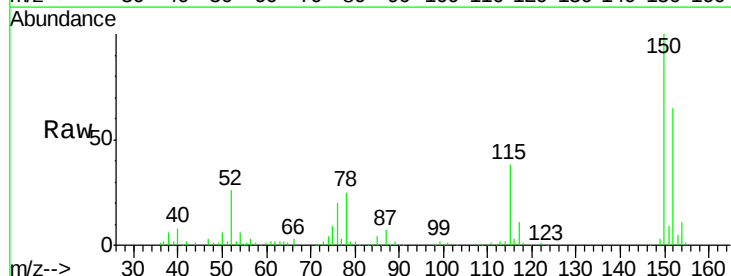
Tgt Ion:152 Resp: 93314

Ion Ratio Lower Upper

152 100

115 60.0 28.7 86.1

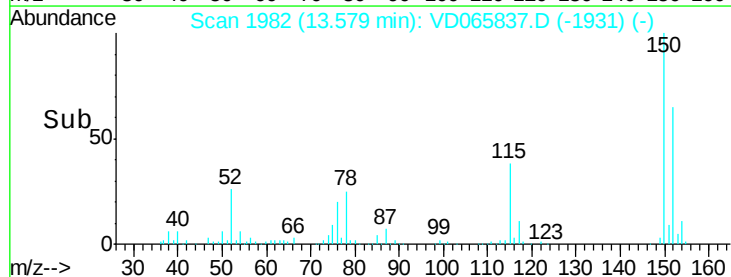
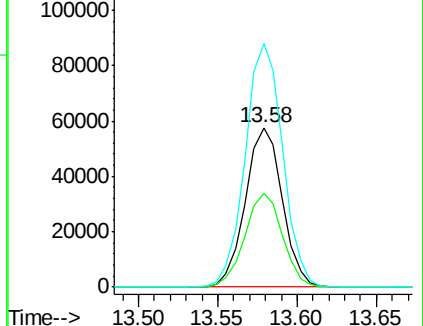
150 155.0 0.0 348.0

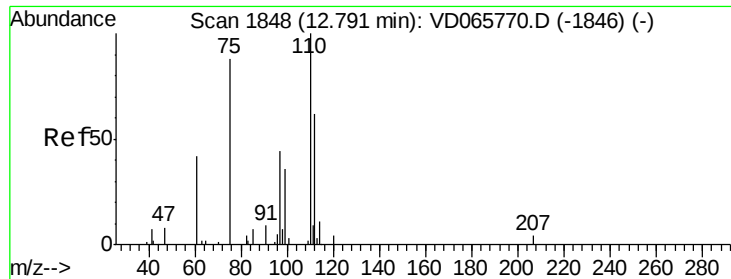


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

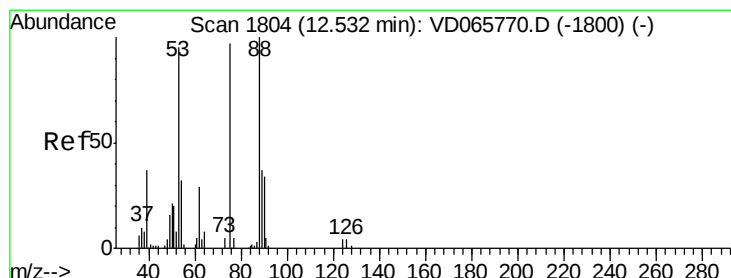
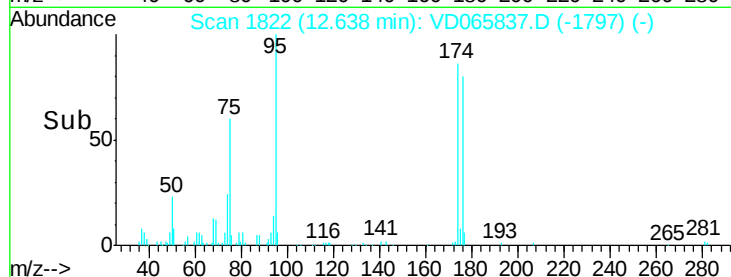
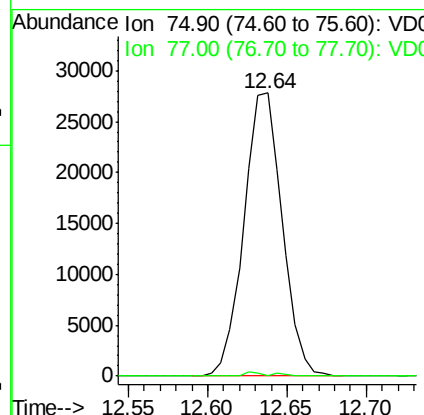
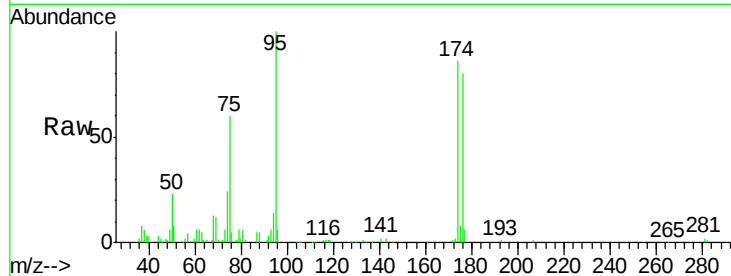




#76  
 1,2,3-Trichloropropane  
 Concen: 64.336 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD065837.D  
 Acq: 19 Jun 2020 19:08

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 1-UNIVERSITY-SW-5

Tgt Ion: 75 Resp: 46690  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 139.007 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.11 min  
 Lab File: VD065837.D  
 Acq: 19 Jun 2020 19:08

Tgt Ion: 75 Resp: 46690  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 82.6 123.8#  
 89 0.0 35.9 53.9#

