

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020823\  
 Data File : VD075281.D  
 Acq On : 08 Feb 2023 19:36  
 Operator : KP/SY  
 Sample : 01463-10RE  
 Misc : 3.10G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TOT-VOC-GRAB-36

Quant Time: Feb 09 05:43:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 Response via : Initial Calibration

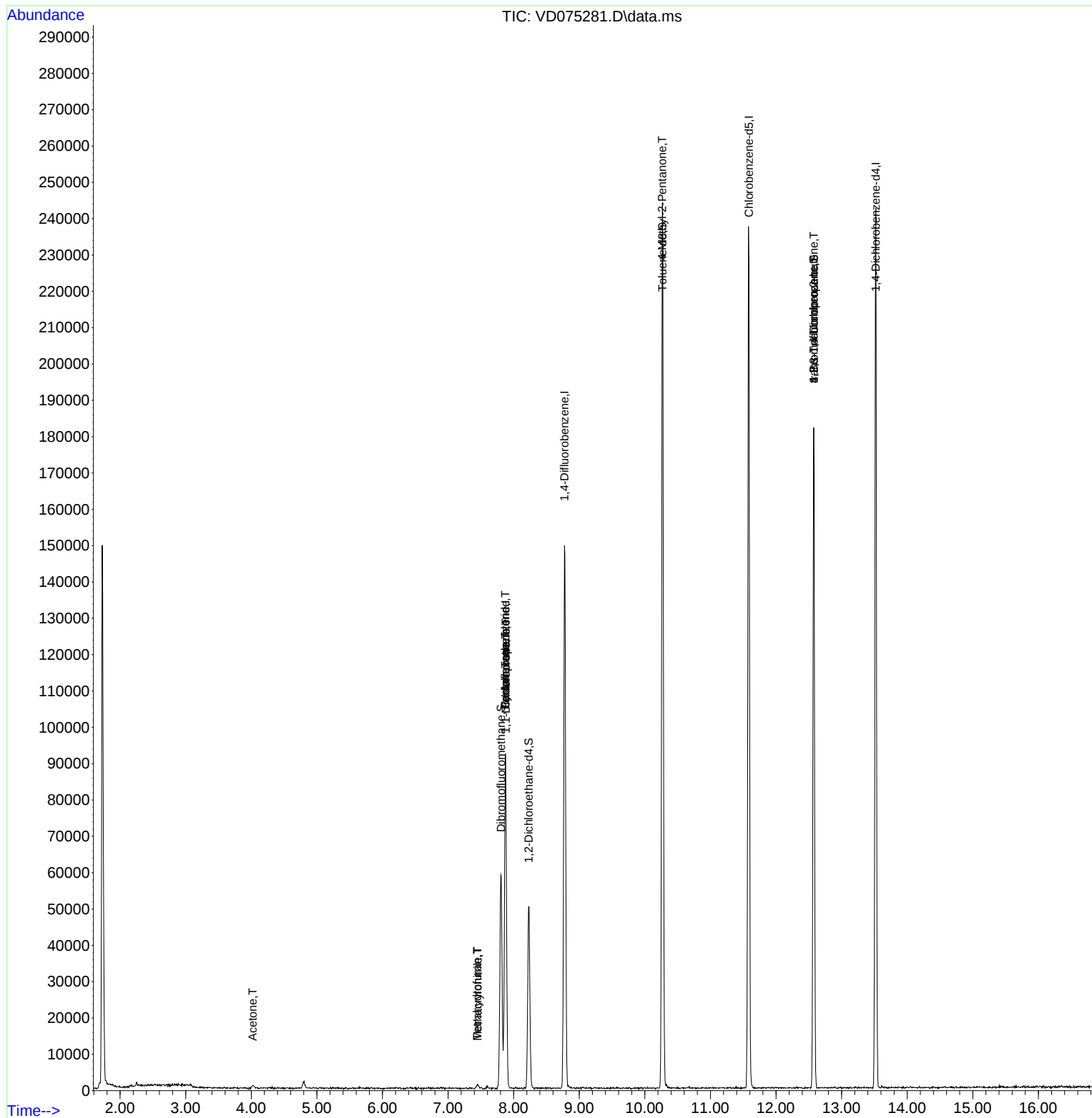
| Compound                      | R.T.           | QIon | Response            | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|-------|----------|
| -----                         |                |      |                     |           |       |          |
| Internal Standards            |                |      |                     |           |       |          |
| 1) Pentafluorobenzene         | 7.875          | 168  | 66413               | 50.000    | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775          | 114  | 132033              | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.587         | 117  | 131506              | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522         | 152  | 62002               | 50.000    | ug/l  | 0.00     |
|                               |                |      |                     |           |       |          |
| System Monitoring Compounds   |                |      |                     |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.228          | 65   | 40225               | 51.653    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 103.300% |           |       |          |
| 35) Dibromofluoromethane      | 7.810          | 113  | 41033               | 44.321    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 88.640%  |           |       |          |
| 50) Toluene-d8                | 10.269         | 98   | 163135              | 46.464    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 92.920%  |           |       |          |
| 62) 4-Bromofluorobenzene      | 12.575         | 95   | 56217               | 48.559    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 97.120%  |           |       |          |
|                               |                |      |                     |           |       |          |
| Target Compounds              |                |      |                     |           |       |          |
| 3) Chloromethane              | 2.152          | 50   | 64                  | Below Cal | #     | 41       |
| 16) Acetone                   | 4.022          | 43   | 1573                | 7.639     | ug/l  | 98       |
| 20) Methylene Chloride        | 4.805          | 84   | 1261                | Below Cal | #     | 88       |
| 29) Tetrahydrofuran           | 7.446          | 42   | 1173                | 8.538     | ug/l  | # 42     |
| 31) Cyclohexane               | 7.875          | 56   | 1572                | 1.137     | ug/l  | # 20     |
| 36) 1,1-Dichloropropene       | 7.881          | 75   | 5531                | 3.835     | ug/l  | # 48     |
| 38) Carbon Tetrachloride      | 7.875          | 117  | 7001                | 5.239     | ug/l  | # 18     |
| 41) Methacrylonitrile         | 7.452          | 41   | 547                 | 1.458     | ug/l  | # 23     |
| 51) 4-Methyl-2-Pentanone      | 10.263         | 43   | 729                 | 1.200     | ug/l  | # 1      |
| 76) 1,2,3-Trichloropropane    | 12.575         | 75   | 30575               | 43.415    | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.575         | 75   | 30575               | 137.115   | ug/l  | # 14     |
| -----                         |                |      |                     |           |       |          |

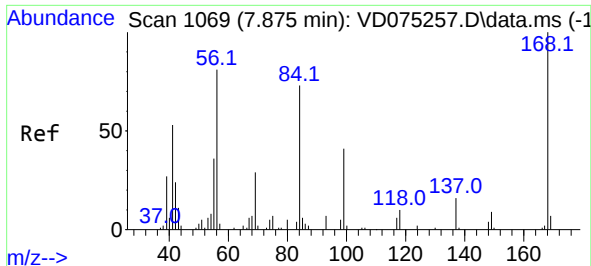
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020823\  
Data File : VD075281.D  
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Operator : KP/SY  
Sample : 01463-10RE  
Misc : 3.10G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

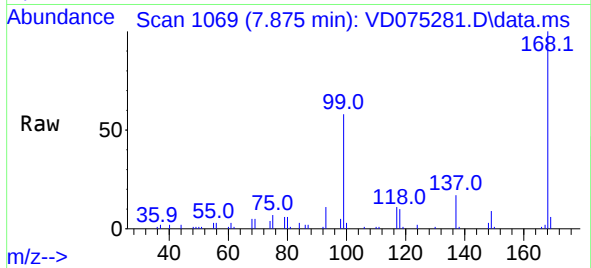
Quant Time: Feb 09 05:43:35 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 08 04:26:58 2023  
Response via : Initial Calibration



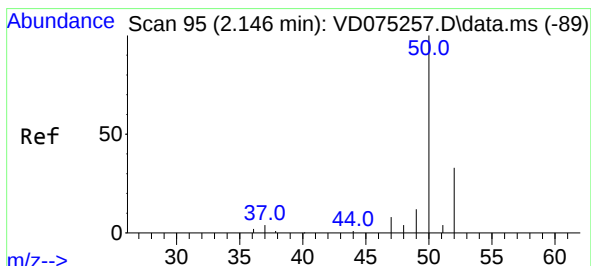
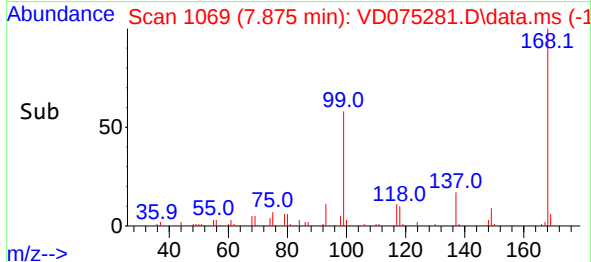
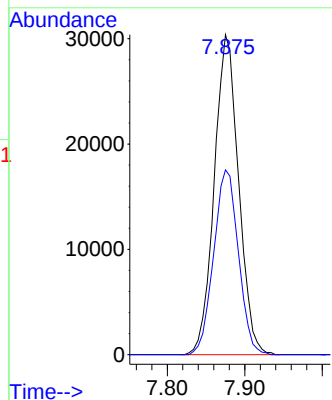


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

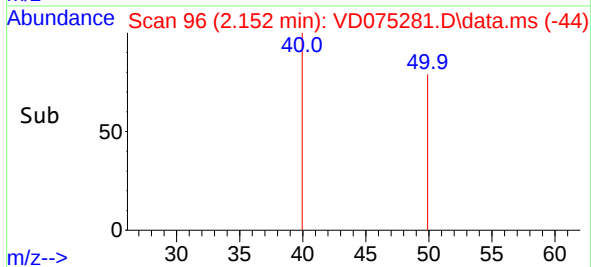
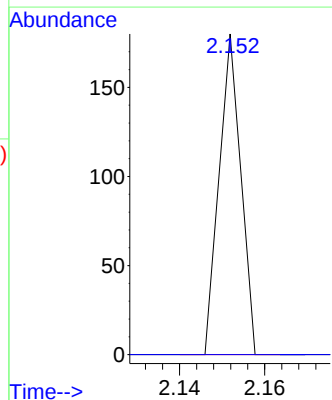
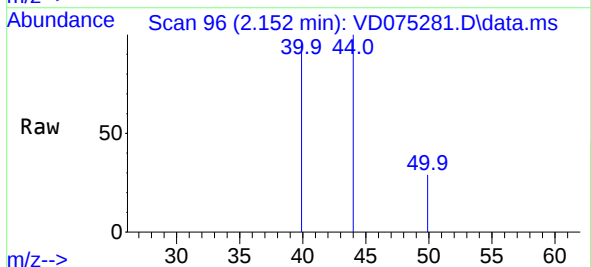


Tgt Ion:168 Resp: 66413  
Ion Ratio Lower Upper  
168 100  
99 57.7 45.2 67.8

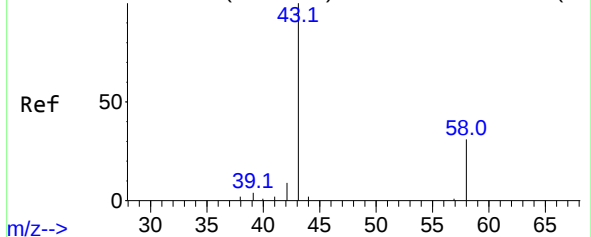


#3  
Chloromethane  
Concen: Below Cal  
RT: 2.152 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Tgt Ion: 50 Resp: 64  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.6#



Abundance Scan 414 (4.022 min): VD075257.D\data.ms (-40



#16

Acetone

Concen: 7.639 ug/l

RT: 4.022 min Scan# 41

Delta R.T. 0.000 min

Lab File: VD075281.D

Acq: 08 Feb 2023 19:36

Instrument :

MSVOA\_D

ClientSampleId :

TOT-VOC-GRAB-36

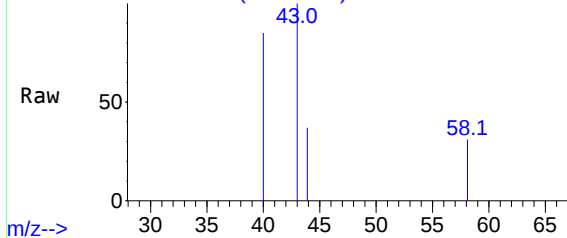
Tgt Ion: 43 Resp: 1573

Ion Ratio Lower Upper

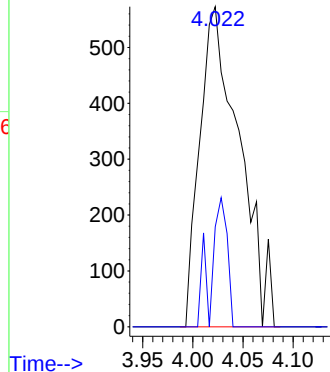
43 100

58 31.2 26.0 39.0

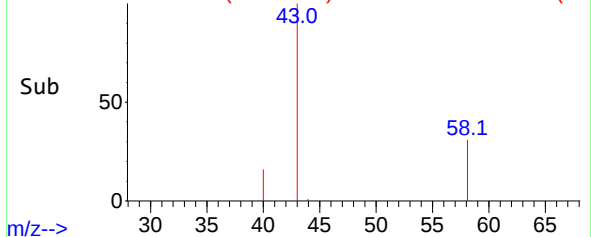
Abundance Scan 414 (4.022 min): VD075281.D\data.ms



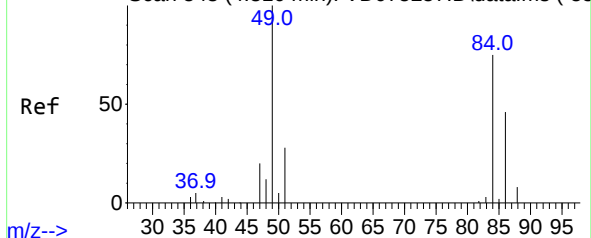
Abundance



Abundance Scan 414 (4.022 min): VD075281.D\data.ms (-36



Abundance Scan 548 (4.810 min): VD075257.D\data.ms (-53



#20

Methylene Chloride

Concen: Below Cal

RT: 4.805 min Scan# 547

Delta R.T. -0.005 min

Lab File: VD075281.D

Acq: 08 Feb 2023 19:36

Tgt Ion: 84 Resp: 1261

Ion Ratio Lower Upper

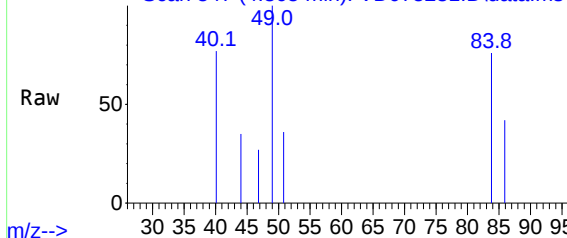
84 100

49 131.4 97.0 145.6

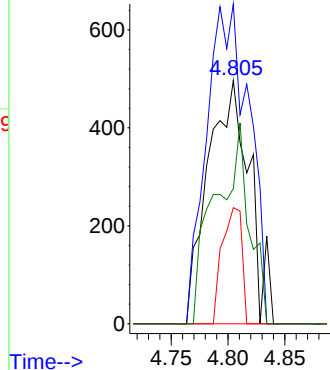
51 47.7 30.9 46.3#

86 55.5 54.0 81.0

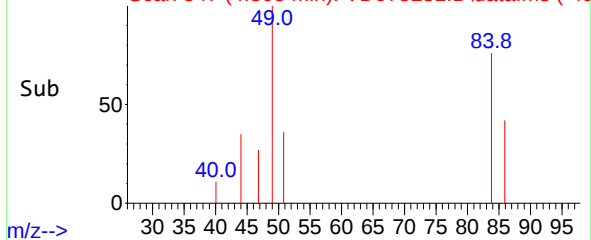
Abundance Scan 547 (4.805 min): VD075281.D\data.ms

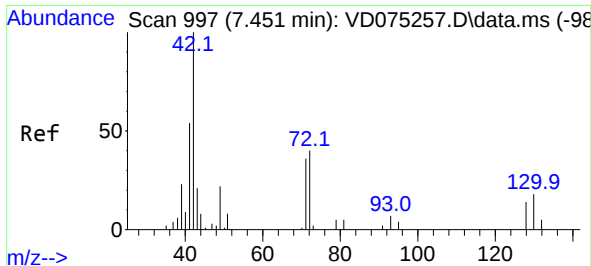


Abundance



Abundance Scan 547 (4.805 min): VD075281.D\data.ms (-49

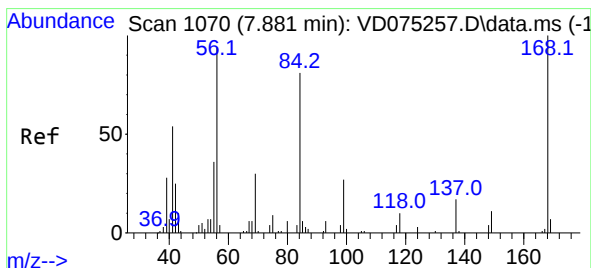
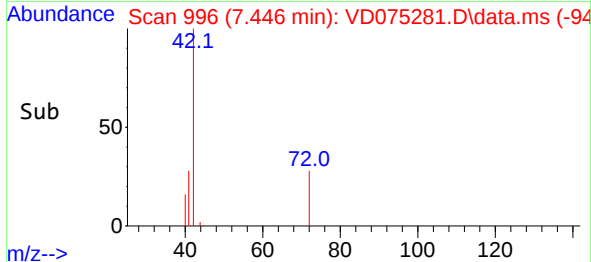
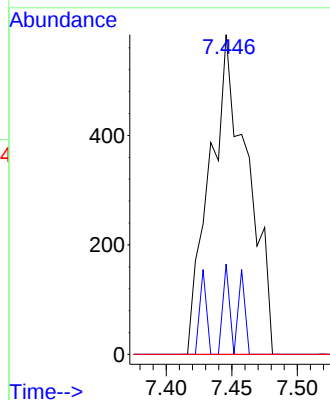
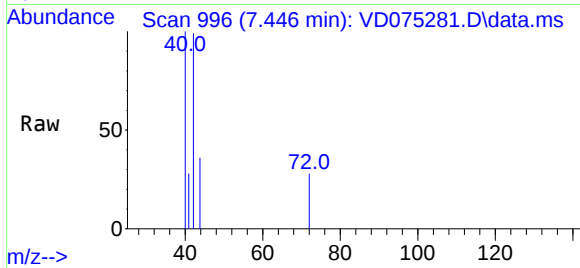




#29  
Tetrahydrofuran  
Concen: 8.538 ug/l  
RT: 7.446 min Scan# 996  
Delta R.T. -0.005 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

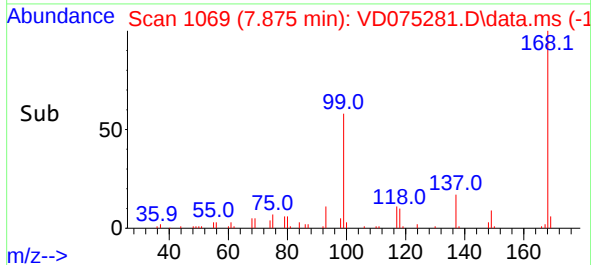
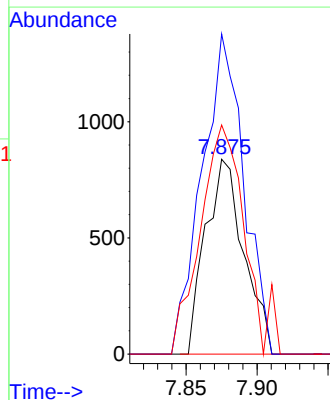
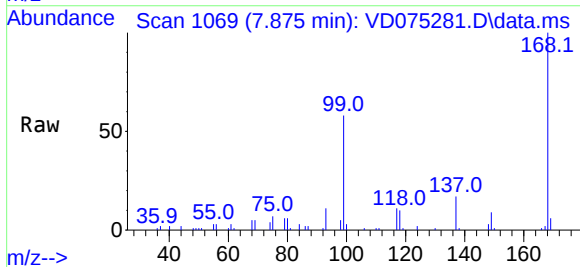
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

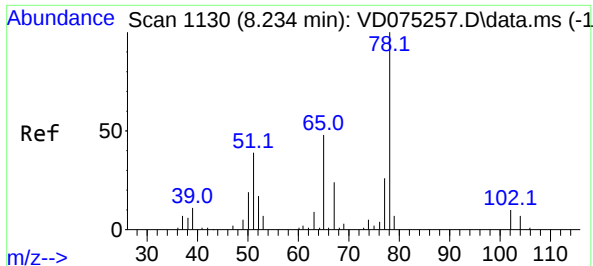
Tgt Ion: 42 Resp: 1173  
Ion Ratio Lower Upper  
42 100  
72 9.6 33.8 50.8#  
71 0.0 31.6 47.4#



#31  
Cyclohexane  
Concen: 1.137 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Tgt Ion: 56 Resp: 1572  
Ion Ratio Lower Upper  
56 100  
69 164.2 26.6 40.0#  
84 117.5 74.1 111.1#





#33

1,2-Dichloroethane-d4

Concen: 51.653 ug/l

RT: 8.228 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VD075281.D

Acq: 08 Feb 2023 19:36

Instrument :

MSVOA\_D

ClientSampleId :

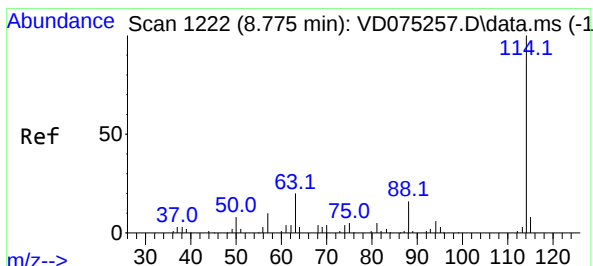
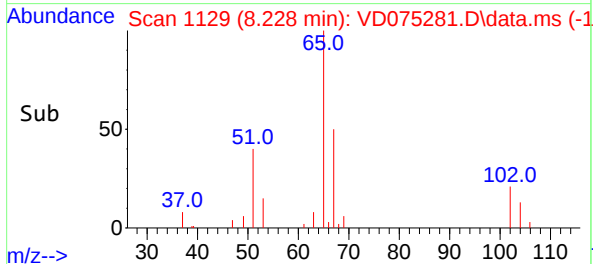
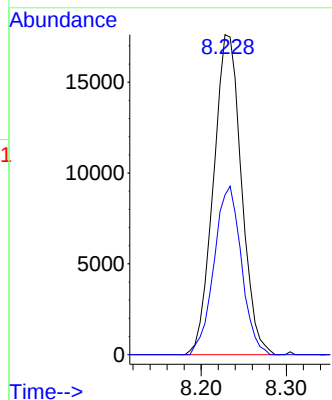
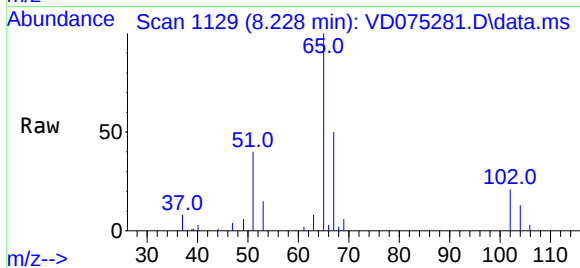
TOT-VOC-GRAB-36

Tgt Ion: 65 Resp: 40225

Ion Ratio Lower Upper

65 100

67 51.5 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD075281.D

Acq: 08 Feb 2023 19:36

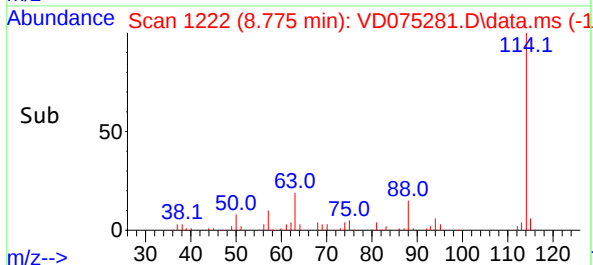
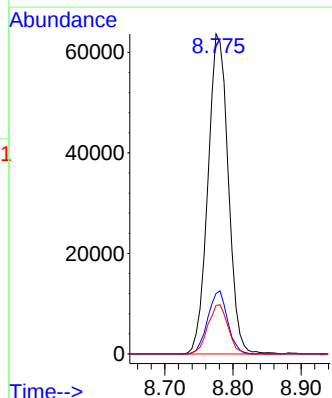
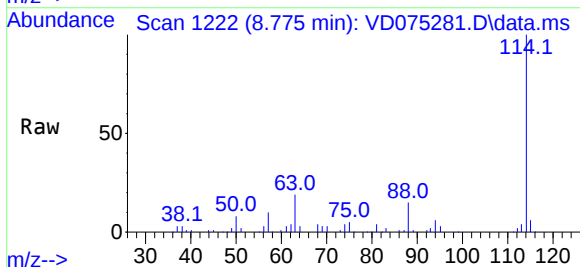
Tgt Ion:114 Resp: 132033

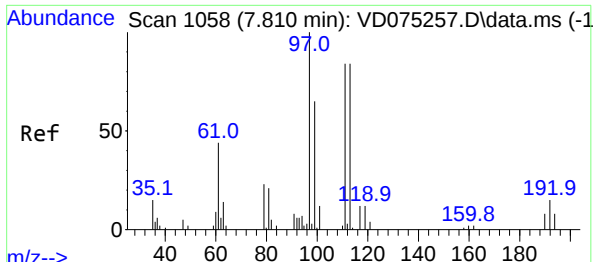
Ion Ratio Lower Upper

114 100

63 18.9 0.0 40.2

88 15.1 0.0 32.2

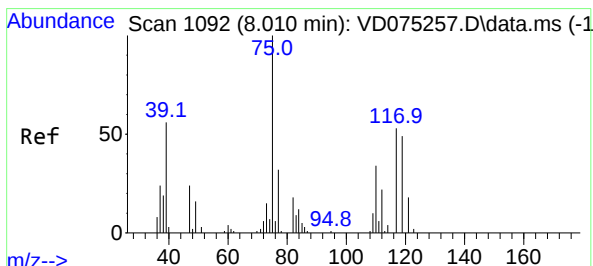
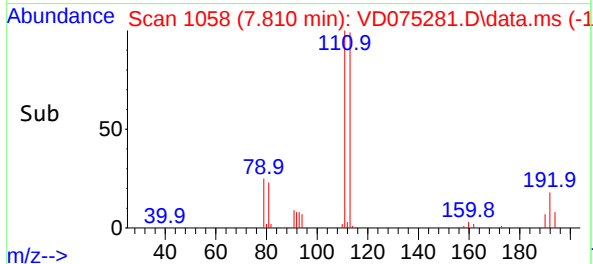
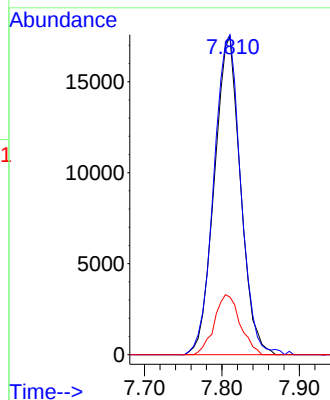
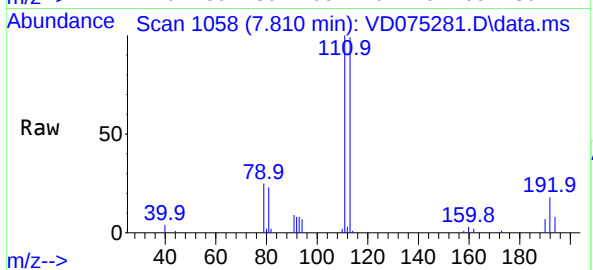




#35  
Dibromofluoromethane  
Concen: 44.321 ug/l  
RT: 7.810 min Scan# 1058  
Delta R.T. 0.000 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

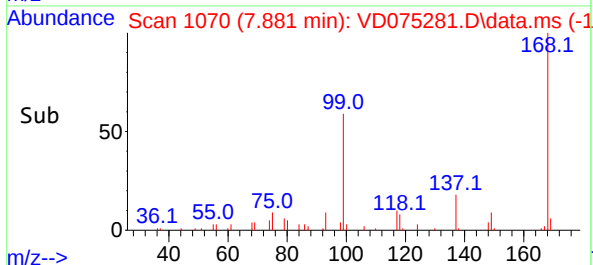
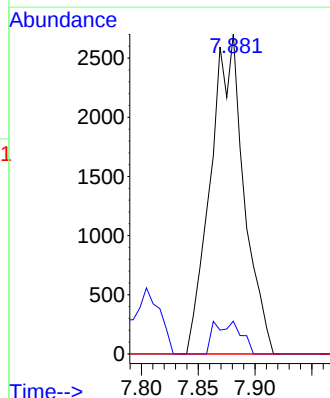
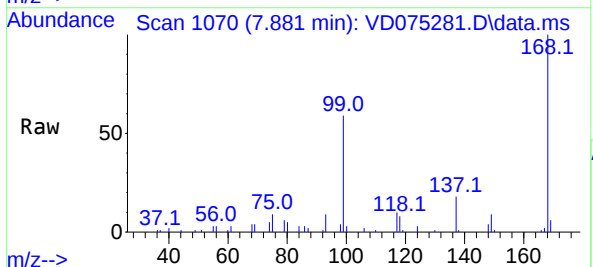
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

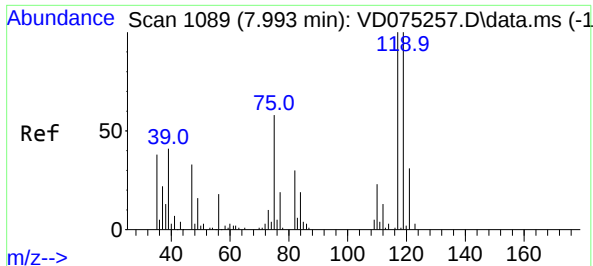
Tgt Ion:113 Resp: 41033  
Ion Ratio Lower Upper  
113 100  
111 103.3 80.1 120.1  
192 18.6 15.4 23.0



#36  
1,1-Dichloropropene  
Concen: 3.835 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.129 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

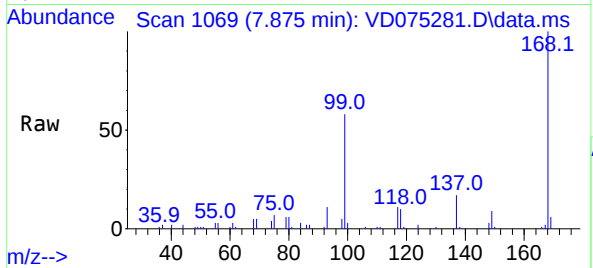
Tgt Ion: 75 Resp: 5531  
Ion Ratio Lower Upper  
75 100  
110 8.1 18.1 54.4#  
77 0.0 25.1 37.7#



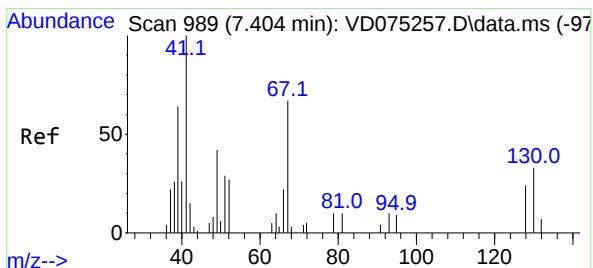
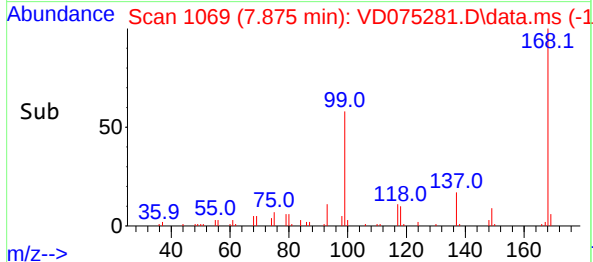
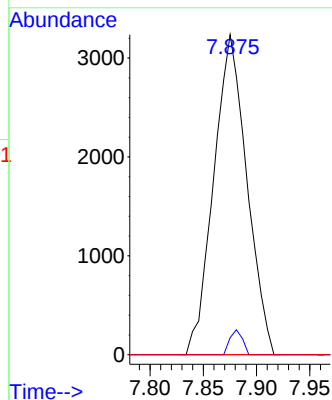


#38  
Carbon Tetrachloride  
Concen: 5.239 ug/l  
RT: 7.875 min Scan# 1089  
Delta R.T. -0.118 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

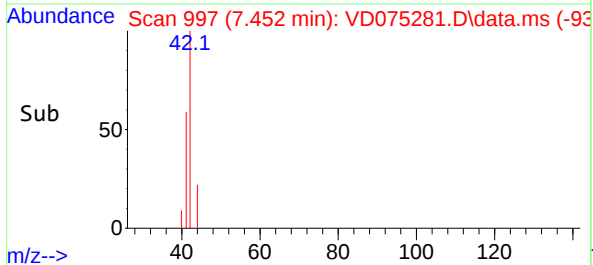
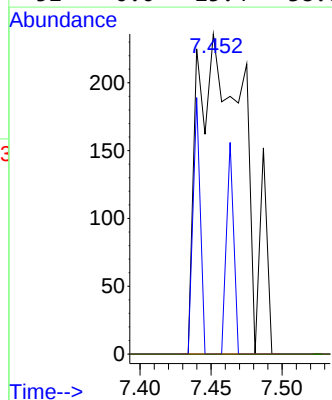
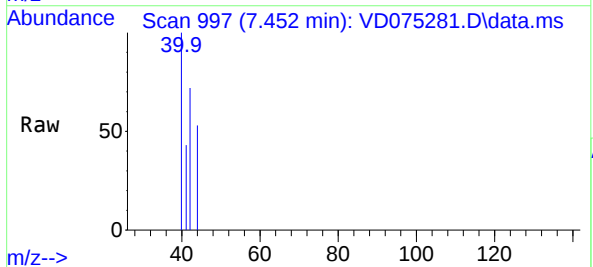


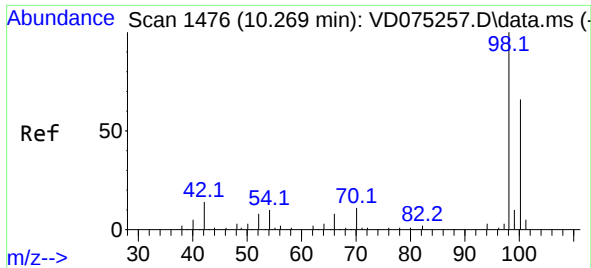
Tgt Ion:117 Resp: 7001  
Ion Ratio Lower Upper  
117 100  
119 5.3 73.6 110.4#  
121 0.0 25.4 38.0#



#41  
Methacrylonitrile  
Concen: 1.458 ug/l  
RT: 7.452 min Scan# 997  
Delta R.T. 0.048 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Tgt Ion: 41 Resp: 547  
Ion Ratio Lower Upper  
41 100  
39 10.1 57.8 86.6#  
67 0.0 60.5 90.7#  
52 0.0 25.4 38.0#

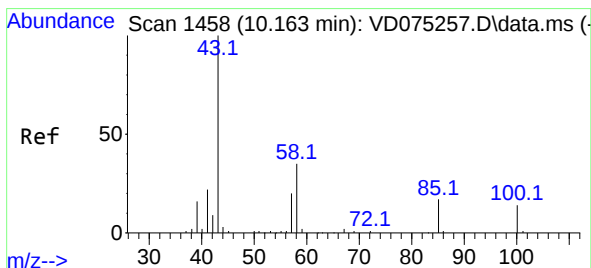
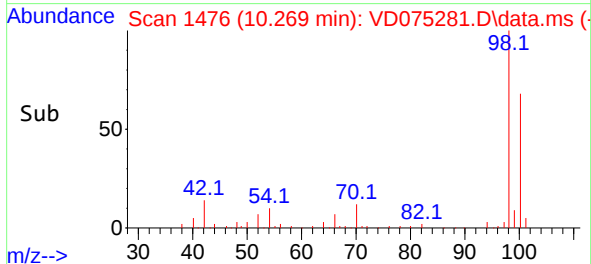
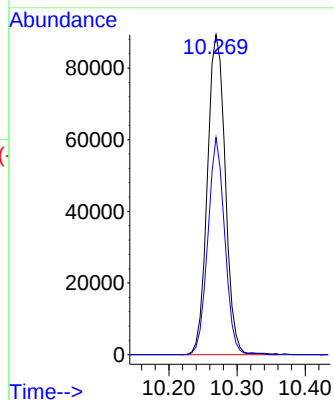
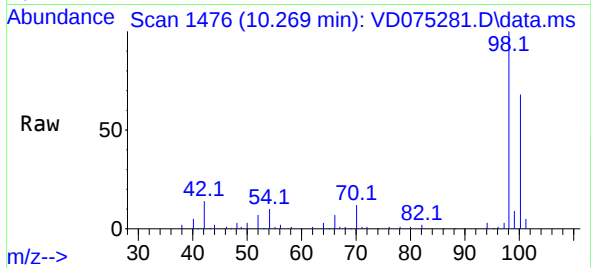




#50  
Toluene-d8  
Concen: 46.464 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

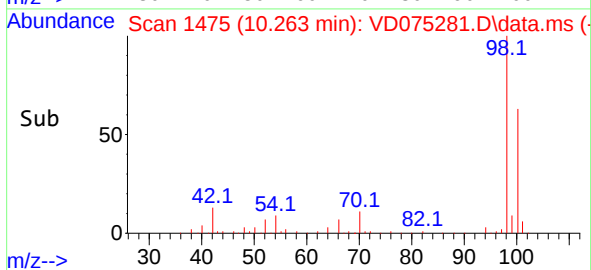
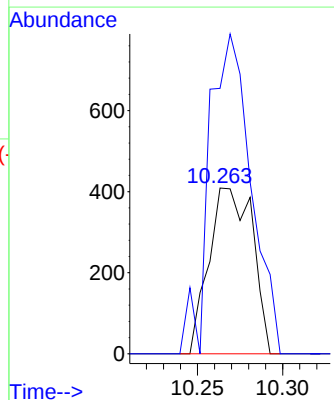
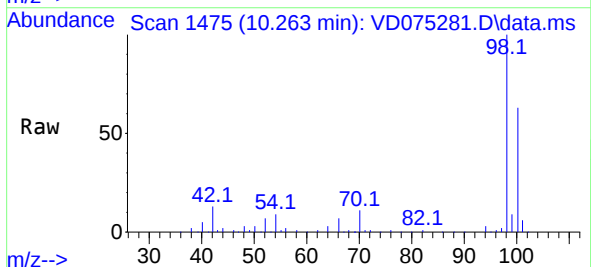
Instrument :  
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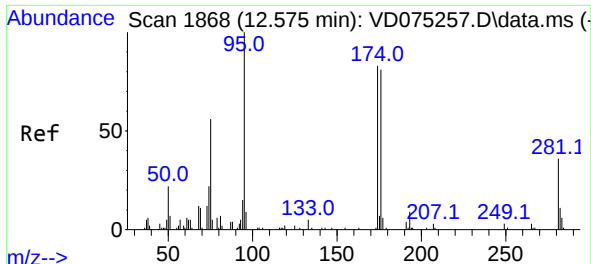
Tgt Ion: 98 Resp: 163135  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 1.200 ug/l  
RT: 10.263 min Scan# 1475  
Delta R.T. 0.100 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Tgt Ion: 43 Resp: 729  
Ion Ratio Lower Upper  
43 100  
58 185.2 31.4 47.0#

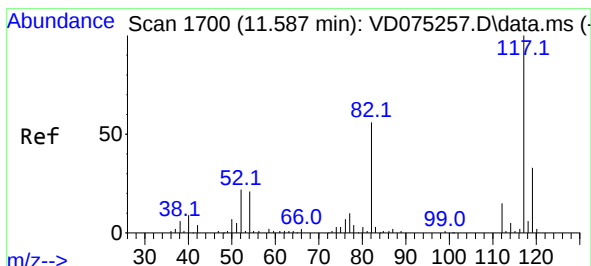
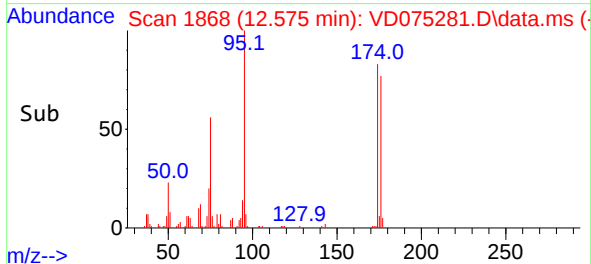
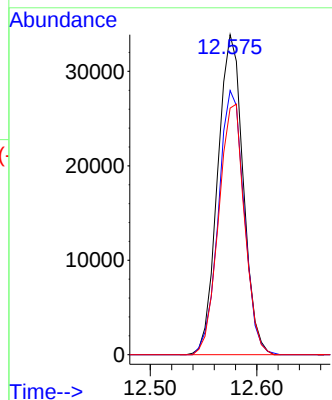
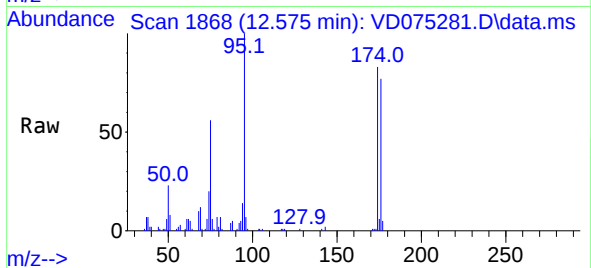




#62  
4-Bromofluorobenzene  
Concen: 48.559 ug/l  
RT: 12.575 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

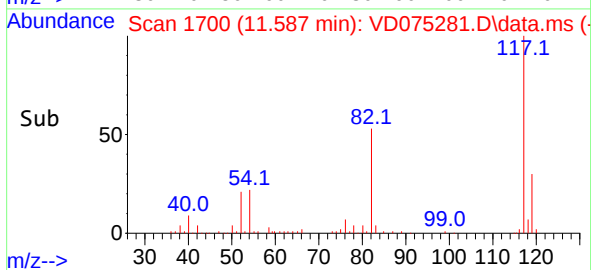
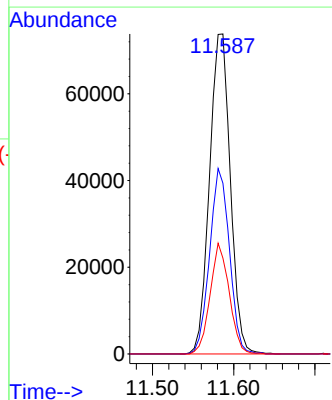
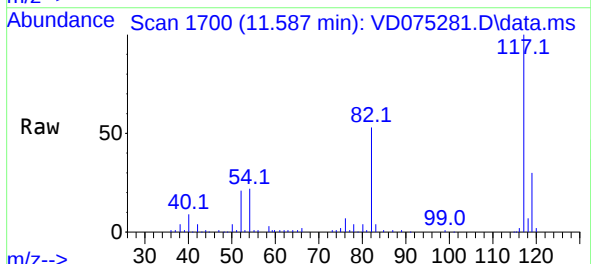
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

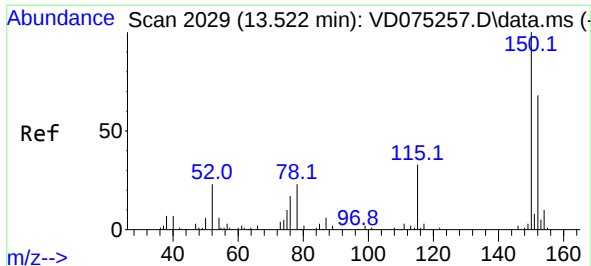
Tgt Ion: 95 Resp: 56217  
Ion Ratio Lower Upper  
95 100  
174 83.0 0.0 161.2  
176 79.4 0.0 160.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.587 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Tgt Ion: 117 Resp: 131506  
Ion Ratio Lower Upper  
117 100  
82 53.3 39.6 59.4  
119 30.0 24.6 37.0

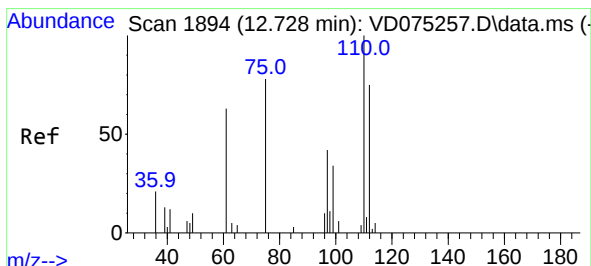
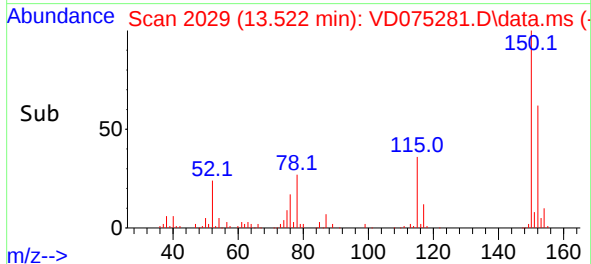
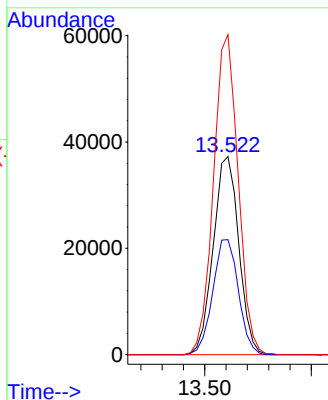
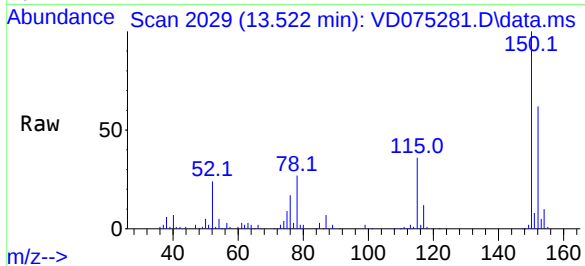




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. -0.000 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

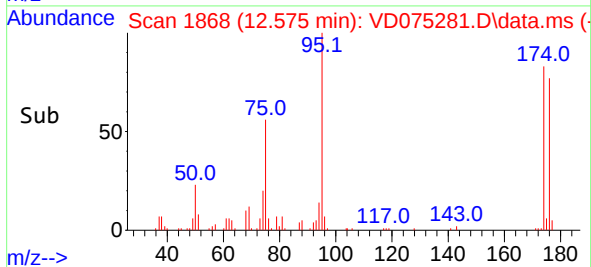
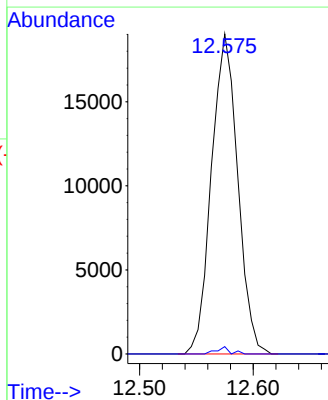
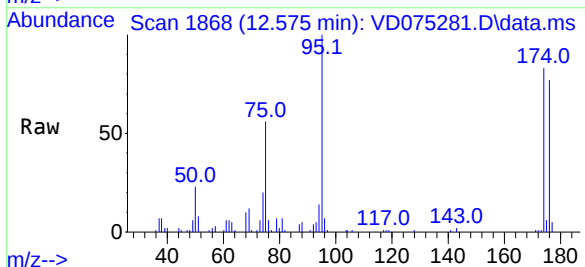
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-36

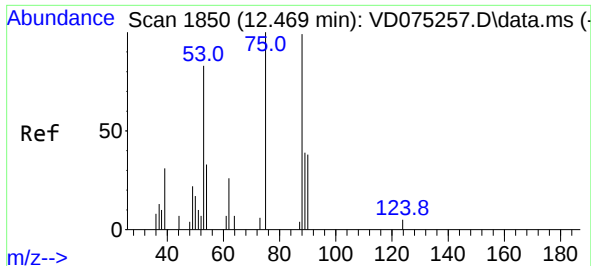
Tgt Ion:152 Resp: 62002  
Ion Ratio Lower Upper  
152 100  
115 58.3 28.8 86.4  
150 155.7 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 43.415 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD075281.D  
Acq: 08 Feb 2023 19:36

Tgt Ion: 75 Resp: 30575  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 137.115 ug/l  
 RT: 12.575 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD075281.D  
 Acq: 08 Feb 2023 19:36

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TOT-VOC-GRAB-36

Tgt Ion: 75 Resp: 30575  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 70.5 105.7#  
 89 0.0 34.6 52.0#

