

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW111221\  
 Data File : VW020881.D  
 Acq On : 13 Nov 2021 02:26  
 Operator : SY/VA  
 Sample : M4577-04  
 Misc : 4.08g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 15 00:15:57 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111021S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 13 07:30:48 2021  
 Response via : Initial Calibration

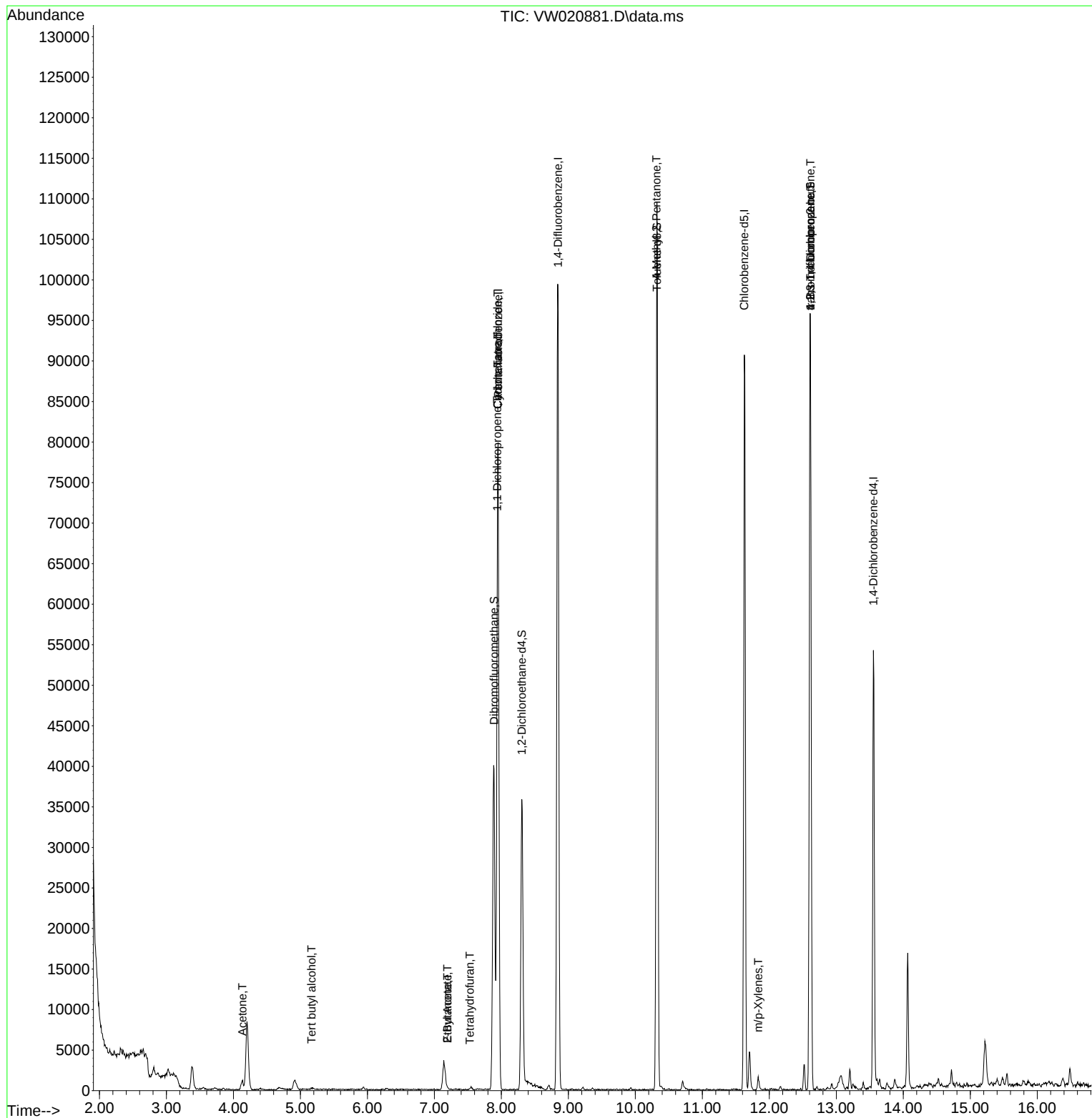
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.951          | 168  | 63219               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.847          | 114  | 88271               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.627         | 117  | 51579               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.554         | 152  | 14610               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.305          | 65   | 28065               | 53.683    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 107.360% |           |        |          |
| 35) Dibromofluoromethane      | 7.890          | 113  | 28391               | 57.532    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 115.060% |           |        |          |
| 50) Toluene-d8                | 10.323         | 98   | 72181               | 37.385    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 74.760%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.615         | 95   | 17303               | 24.840    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 49.680%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 2.885          | 94   | 20                  | Below Cal | #      | 2        |
| 11) Tert butyl alcohol        | 5.165          | 59   | 277                 | 7.705     | ug/l # | 84       |
| 16) Acetone                   | 4.135          | 43   | 2093                | 19.836    | ug/l   | 96       |
| 20) Methylene Chloride        | 4.909          | 84   | 922                 | Below Cal | #      | 87       |
| 25) 2-Butanone                | 7.195          | 43   | 454                 | 2.599     | ug/l # | 48       |
| 29) Tetrahydrofuran           | 7.531          | 42   | 156                 | 1.433     | ug/l # | 63       |
| 31) Cyclohexane               | 7.945          | 56   | 1237                | 1.319     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 7.939          | 75   | 4237                | 5.807     | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.195          | 43   | 454                 | 1.289     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 7.945          | 117  | 5975                | 7.818     | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.317         | 43   | 462                 | 1.299     | ug/l # | 1        |
| 68) m/p-Xylenes               | 11.835         | 106  | 677                 | 1.033     | ug/l # | 70       |
| 76) 1,2,3-Trichloropropane    | 12.615         | 75   | 9750                | 86.795    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.615         | 75   | 9750                | 170.849   | ug/l # | 9        |
| -----                         |                |      |                     |           |        |          |

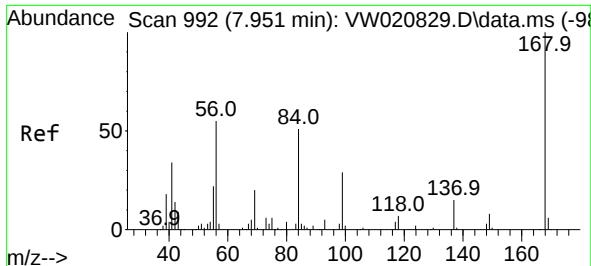
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

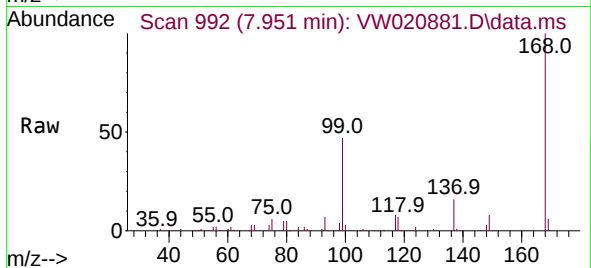
Quant Time: Nov 15 00:15:57 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111021S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 13 07:30:48 2021  
Response via : Initial Calibration



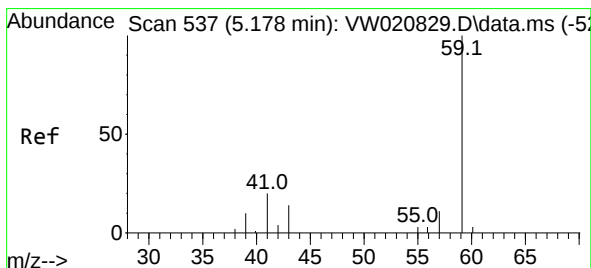
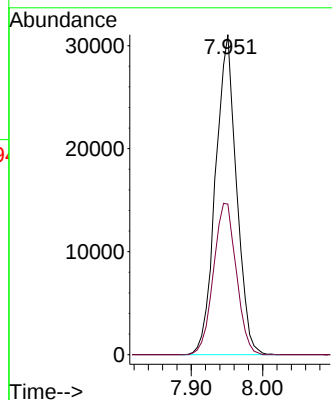
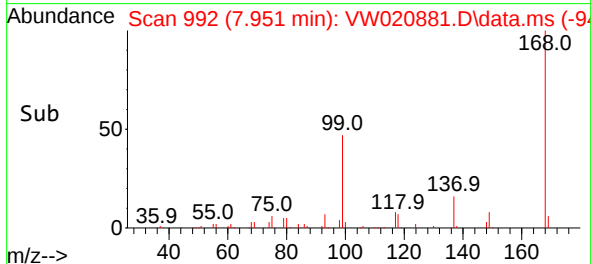


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.951 min Scan# 992  
Delta R.T. 0.000 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Instrument :  
MSVOA\_W  
ClientSampleId :

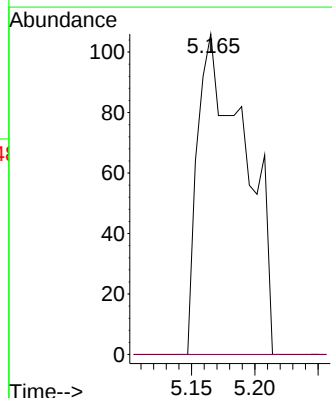
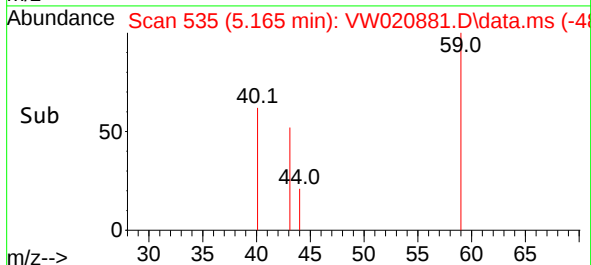
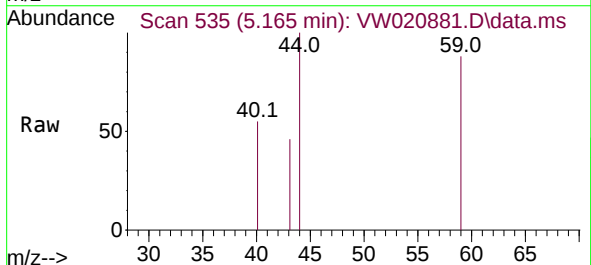


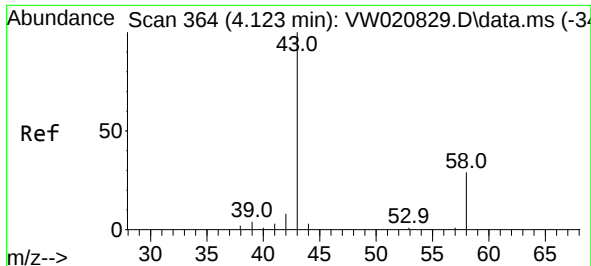
Tgt Ion:168 Resp: 63219  
Ion Ratio Lower Upper  
168 100  
99 47.1 45.4 68.0



#11  
Tert butyl alcohol  
Concen: 7.705 ug/l  
RT: 5.165 min Scan# 535  
Delta R.T. -0.013 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Tgt Ion: 59 Resp: 277  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.2 6.2#

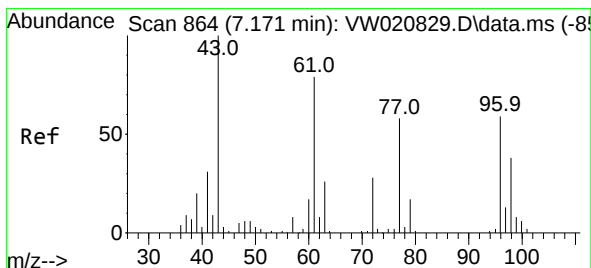
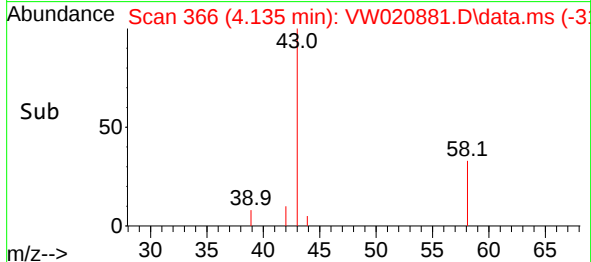
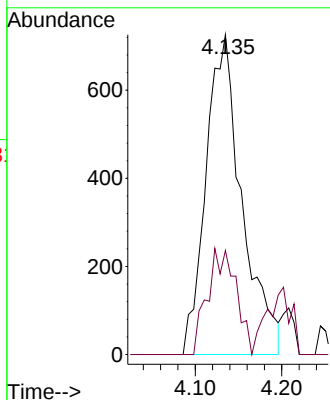
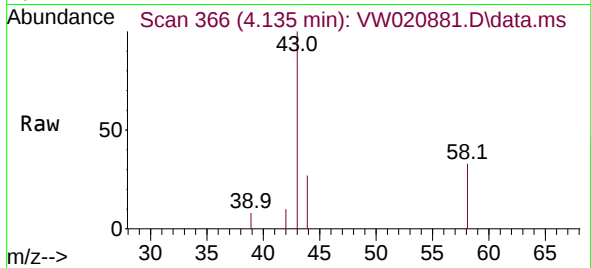




#16  
Acetone  
Concen: 19.836 ug/l  
RT: 4.135 min Scan# 30  
Delta R.T. 0.012 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

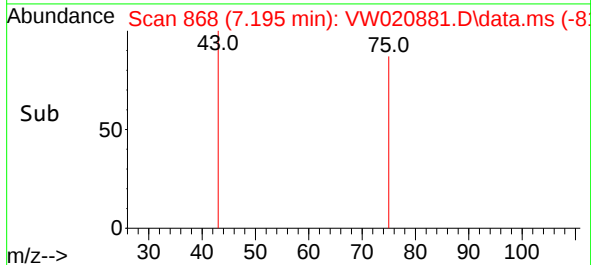
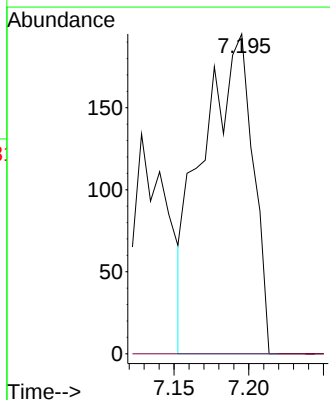
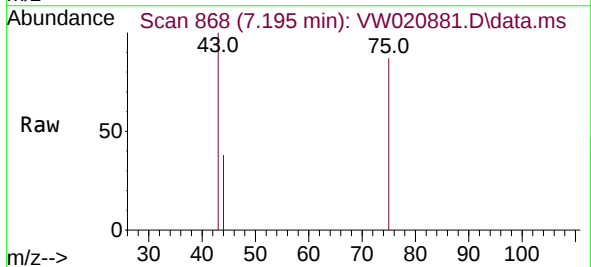
Instrument :  
MSVOA\_W  
ClientSampleId :

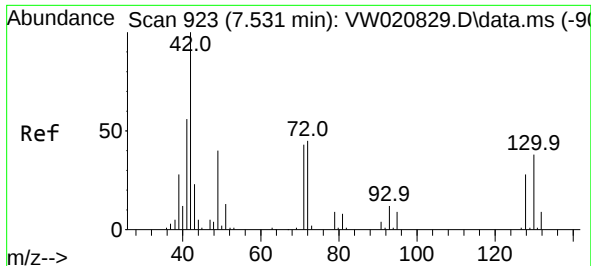
Tgt Ion: 43 Resp: 2093  
Ion Ratio Lower Upper  
43 100  
58 32.5 24.2 36.2



#25  
2-Butanone  
Concen: 2.599 ug/l  
RT: 7.195 min Scan# 868  
Delta R.T. 0.024 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Tgt Ion: 43 Resp: 454  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.4 32.0#





#29

Tetrahydrofuran

Concen: 1.433 ug/l

RT: 7.531 min Scan# 91

Delta R.T. -0.000 min

Lab File: VW020881.D

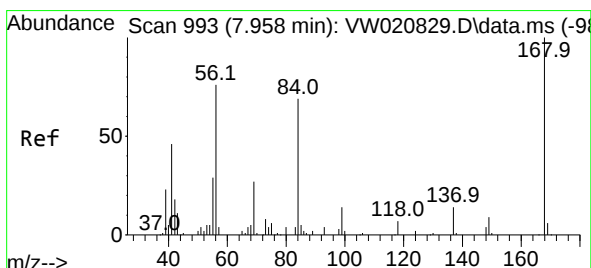
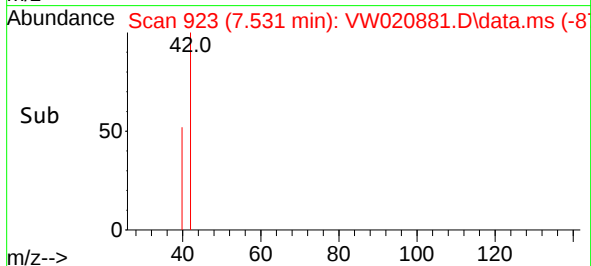
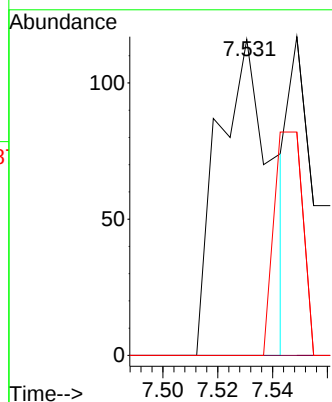
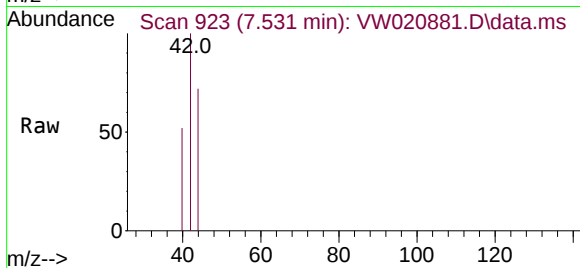
Acq: 13 Nov 2021 02:26

Instrument :

MSVOA\_W

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 42 | Resp: | 156         |
| Ion         | Ratio | Lower Upper |
| 42          | 100   |             |
| 72          | 0.0   | 35.0 52.6#  |
| 71          | 38.5  | 32.2 48.4   |



#31

Cyclohexane

Concen: 1.319 ug/l

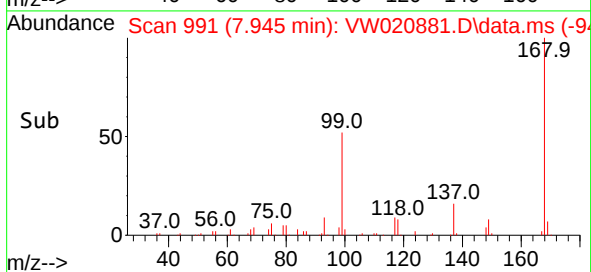
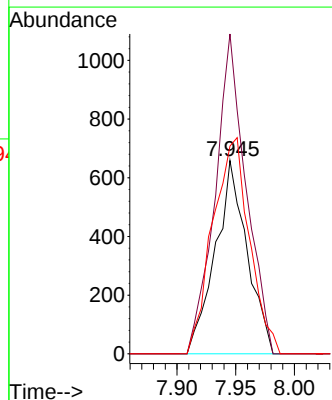
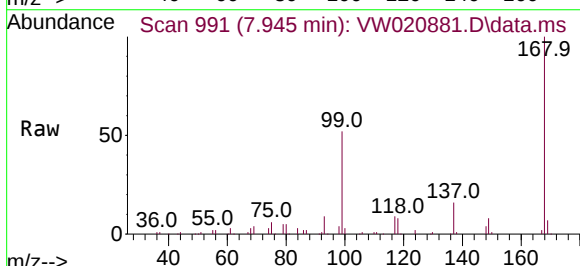
RT: 7.945 min Scan# 991

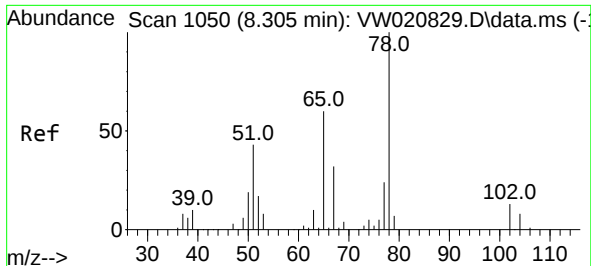
Delta R.T. -0.012 min

Lab File: VW020881.D

Acq: 13 Nov 2021 02:26

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 56 | Resp: | 1237        |
| Ion         | Ratio | Lower Upper |
| 56          | 100   |             |
| 69          | 165.4 | 27.2 40.8#  |
| 84          | 107.4 | 71.8 107.6  |





#33

1,2-Dichloroethane-d4

Concen: 53.683 ug/l

RT: 8.305 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VW020881.D

Acq: 13 Nov 2021 02:26

Instrument :

MSVOA\_W

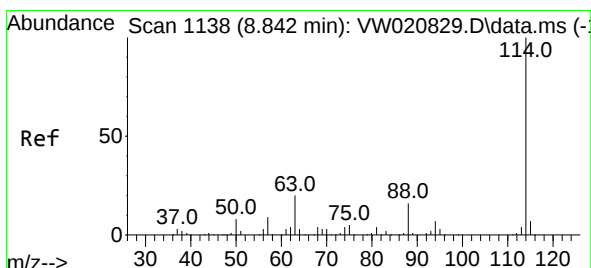
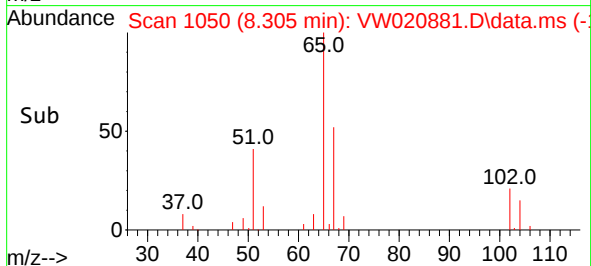
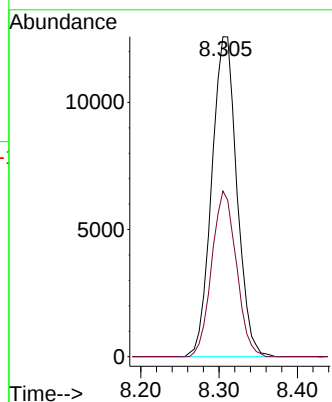
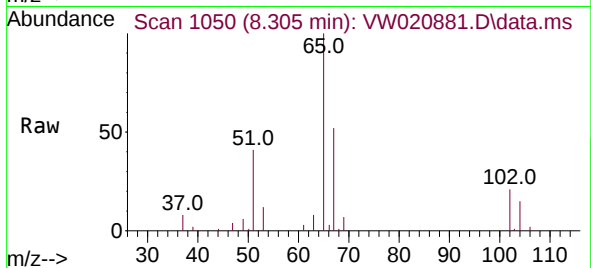
ClientSampleId :

Tgt Ion: 65 Resp: 28065

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.847 min Scan# 1139

Delta R.T. 0.006 min

Lab File: VW020881.D

Acq: 13 Nov 2021 02:26

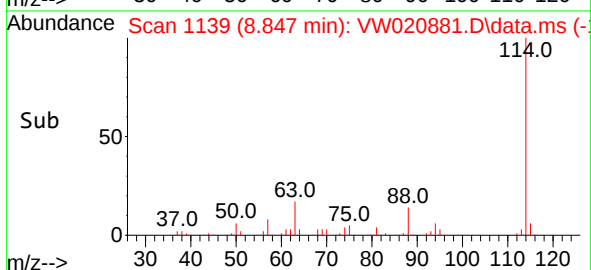
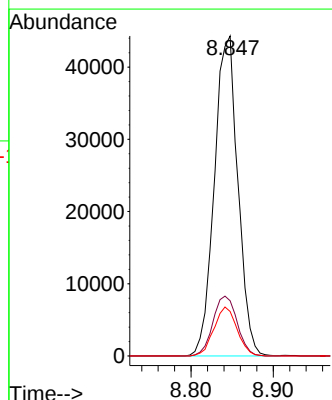
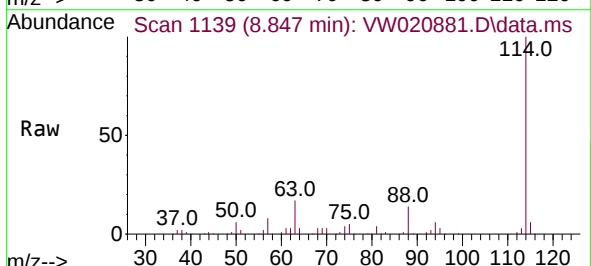
Tgt Ion: 114 Resp: 88271

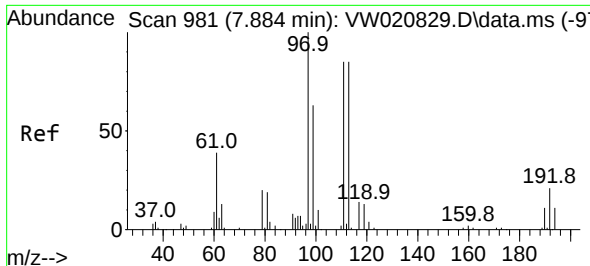
Ion Ratio Lower Upper

114 100

63 17.3 0.0 42.8

88 13.9 0.0 33.0

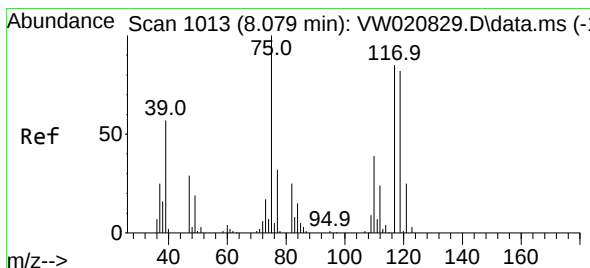
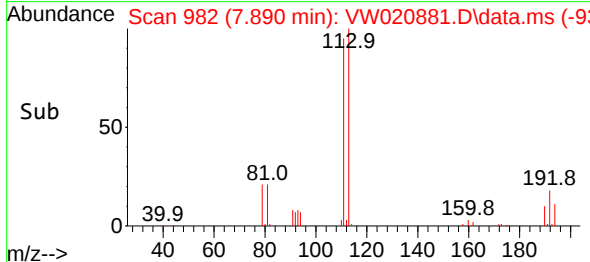
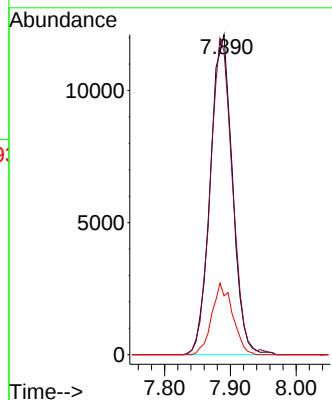
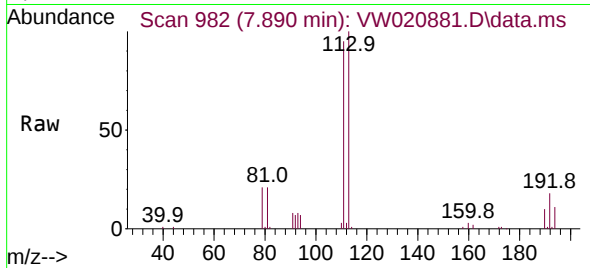




#35  
Dibromofluoromethane  
Concen: 57.532 ug/l  
RT: 7.890 min Scan# 990  
Delta R.T. 0.006 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

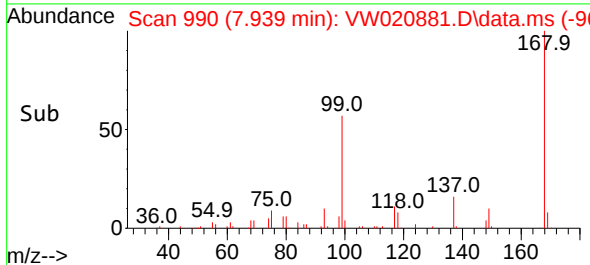
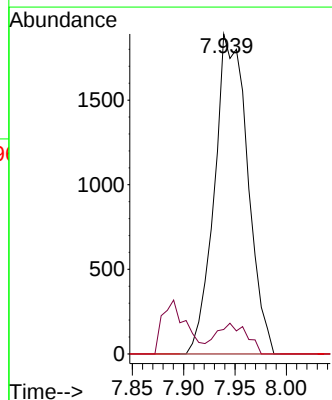
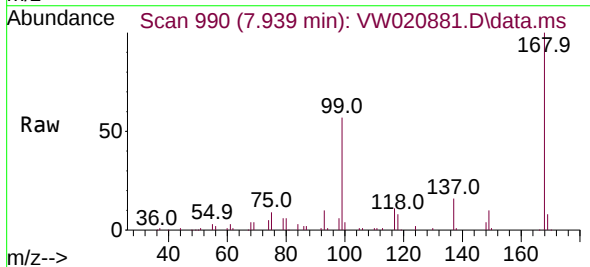
Instrument :  
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ClientSampleId :

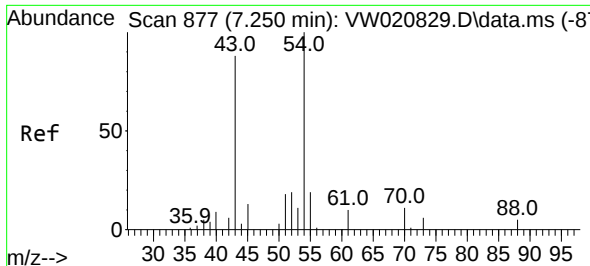
Tgt Ion:113 Resp: 28391  
Ion Ratio Lower Upper  
113 100  
111 99.4 82.1 123.1  
192 21.1 17.8 26.8



#36  
1,1-Dichloropropene  
Concen: 5.807 ug/l  
RT: 7.939 min Scan# 990  
Delta R.T. -0.140 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

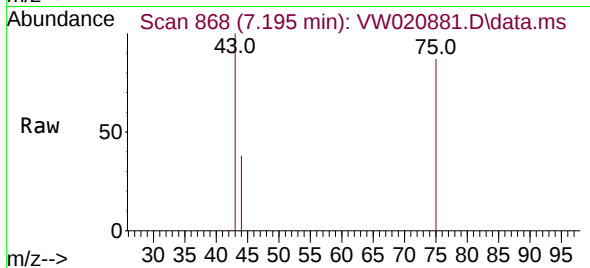
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Ion Ratio Lower Upper  
75 100  
110 8.8 17.1 51.3#  
77 0.0 24.9 37.3#



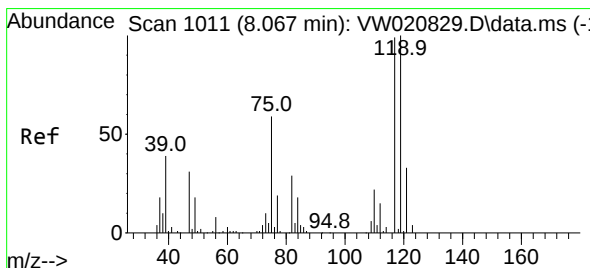
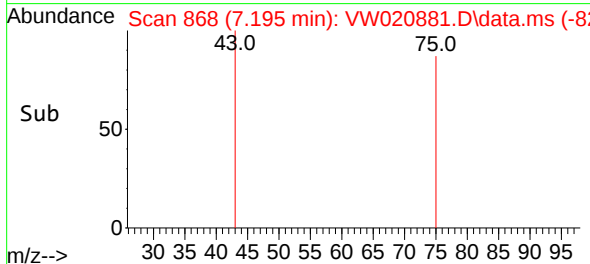
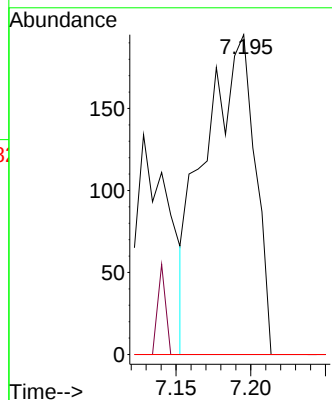


#37  
Ethyl Acetate  
Concen: 1.289 ug/l  
RT: 7.195 min Scan# 80  
Delta R.T. -0.055 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Instrument :  
MSVOA\_W  
ClientSampleId :

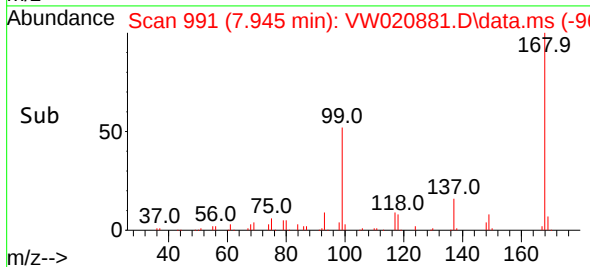
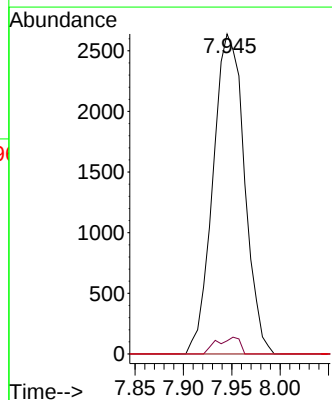
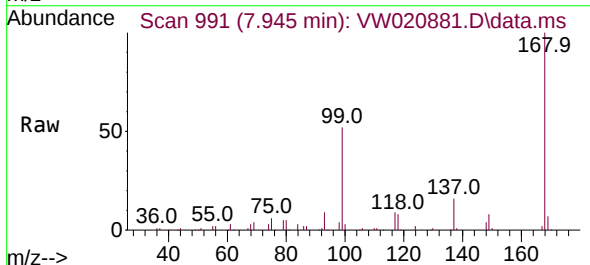


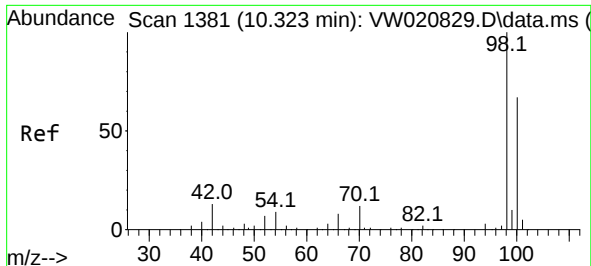
Tgt Ion: 43 Resp: 454  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.3 15.5#  
70 0.0 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 7.818 ug/l  
RT: 7.945 min Scan# 991  
Delta R.T. -0.122 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Tgt Ion: 117 Resp: 5975  
Ion Ratio Lower Upper  
117 100  
119 4.1 72.9 109.3#  
121 0.0 23.4 35.0#

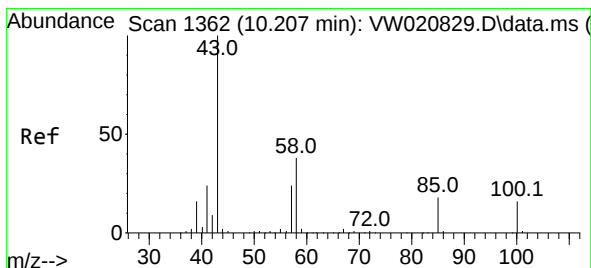
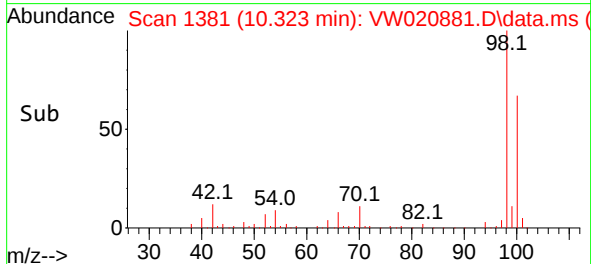
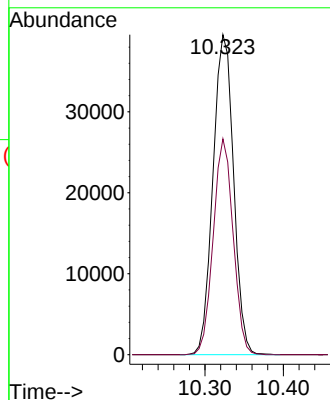
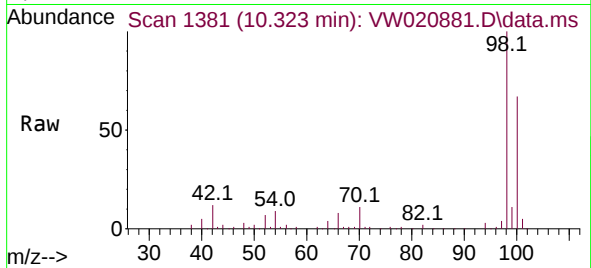




#50  
Toluene-d8  
Concen: 37.385 ug/l  
RT: 10.323 min Scan# 1381  
Delta R.T. -0.000 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

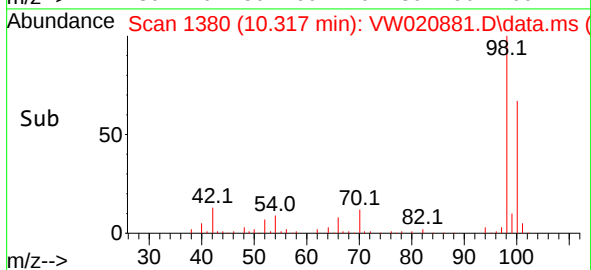
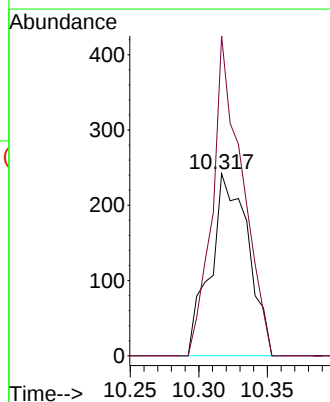
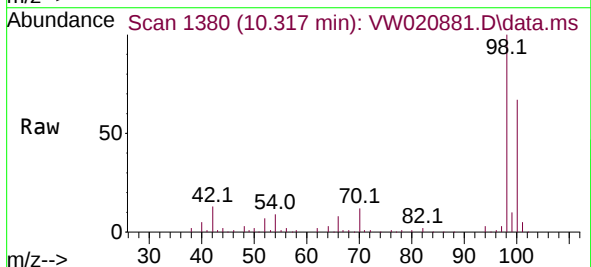
Instrument :  
MSVOA\_W  
ClientSampleId :

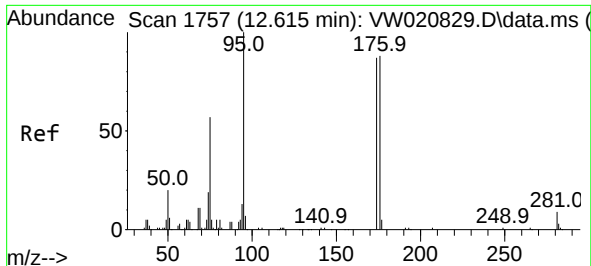
Tgt Ion: 98 Resp: 72181  
Ion Ratio Lower Upper  
98 100  
100 65.2 53.2 79.8



#51  
4-Methyl-2-Pentanone  
Concen: 1.299 ug/l  
RT: 10.317 min Scan# 1380  
Delta R.T. 0.109 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

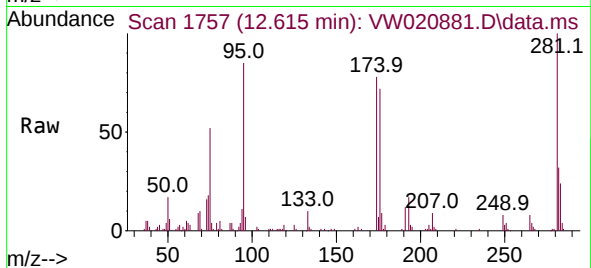
Tgt Ion: 43 Resp: 462  
Ion Ratio Lower Upper  
43 100  
58 139.4 30.6 46.0#



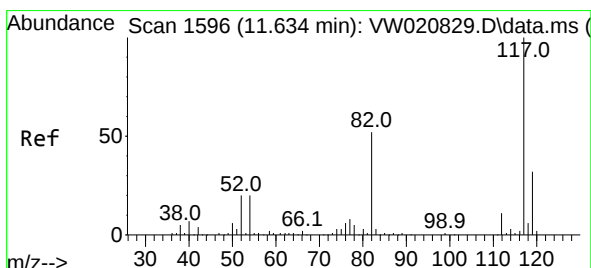
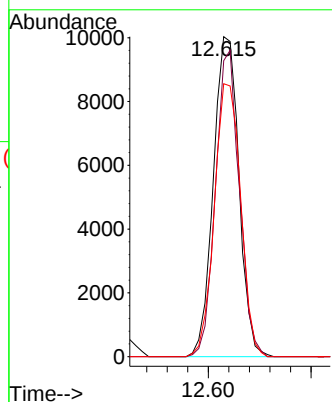
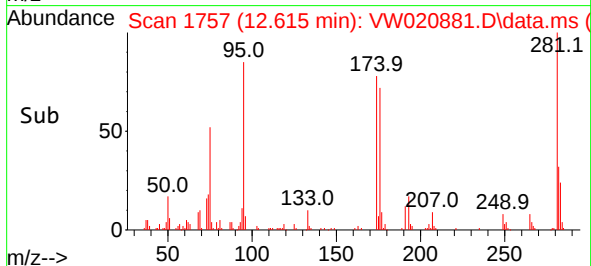


#62  
4-Bromofluorobenzene  
Concen: 24.840 ug/l  
RT: 12.615 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

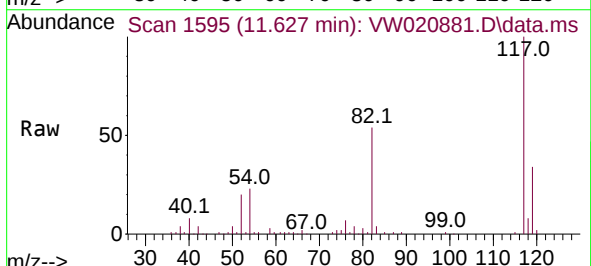
Instrument :  
MSVOA\_W  
ClientSampleId :



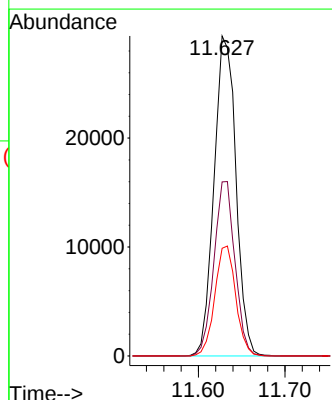
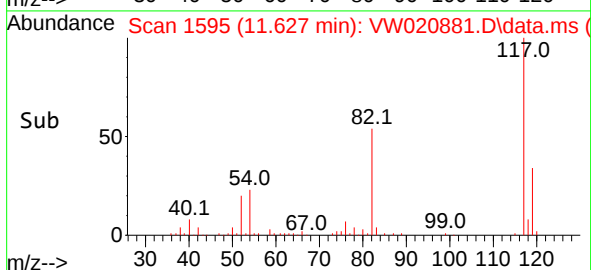
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 17303 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 89.2  | 0.0   | 166.4 |
| 176       | 87.6  | 0.0   | 159.8 |

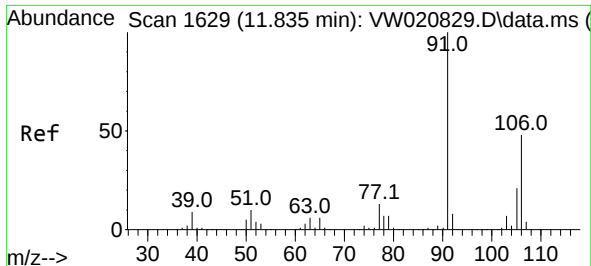


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.627 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 51579 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 54.4  | 45.6  | 68.4  |
| 119       | 33.6  | 25.0  | 37.4  |

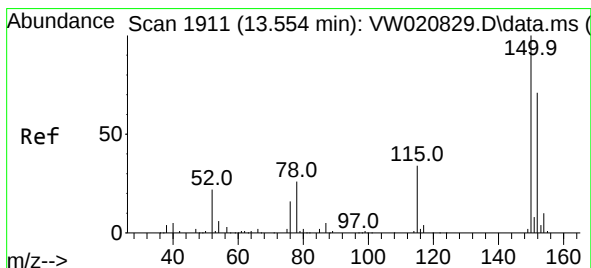
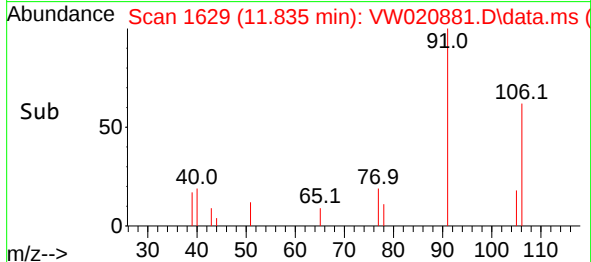
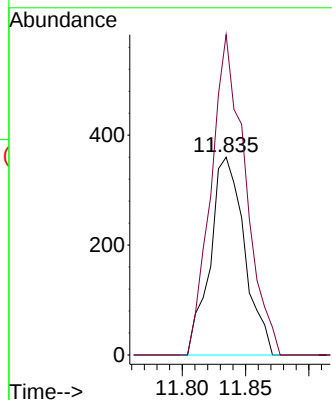
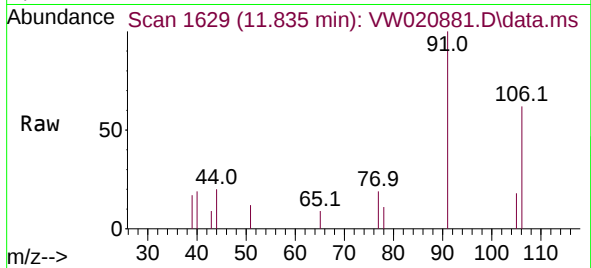




#68  
m/p-Xylenes  
Concen: 1.033 ug/l  
RT: 11.835 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

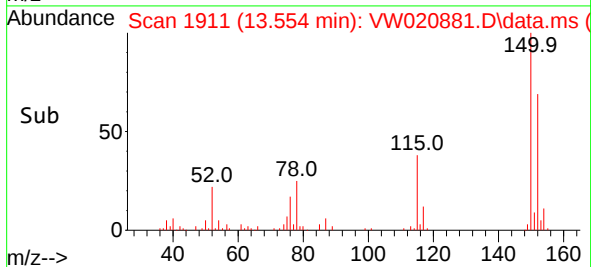
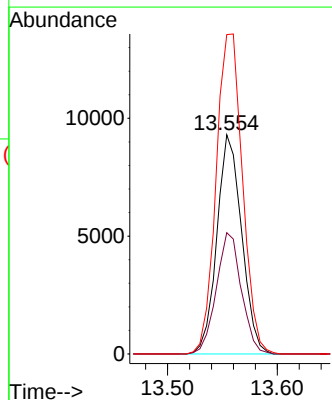
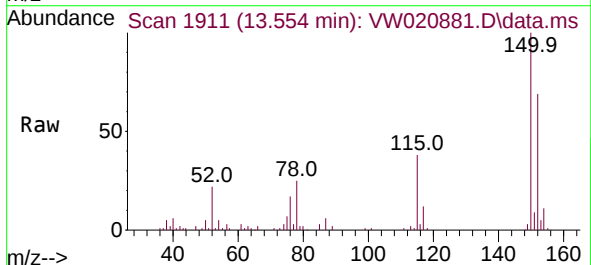
Instrument :  
MSVOA\_W  
ClientSampleId :

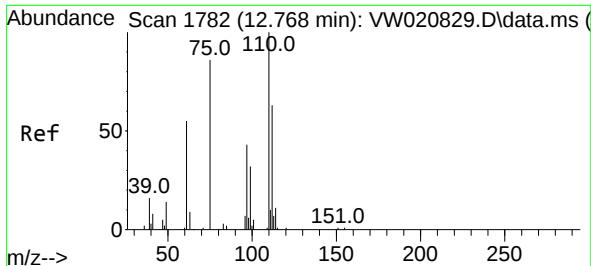
Tgt Ion:106 Resp: 677  
Ion Ratio Lower Upper  
106 100  
91 162.2 166.4 249.6#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.554 min Scan# 1911  
Delta R.T. -0.000 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Tgt Ion:152 Resp: 14610  
Ion Ratio Lower Upper  
152 100  
115 55.9 29.6 88.9  
150 155.6 0.0 352.6

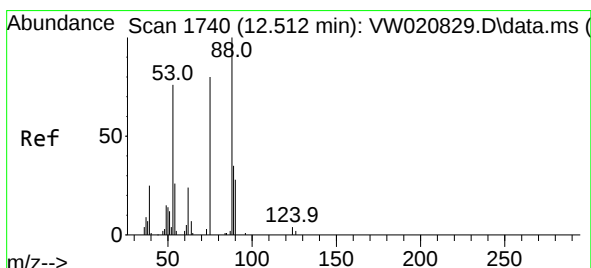
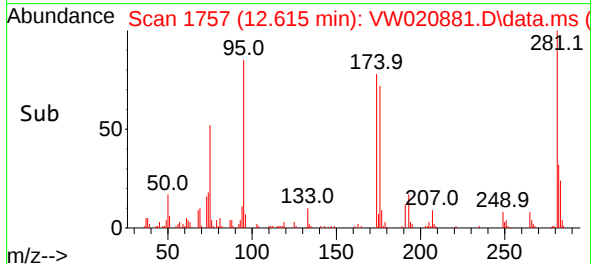
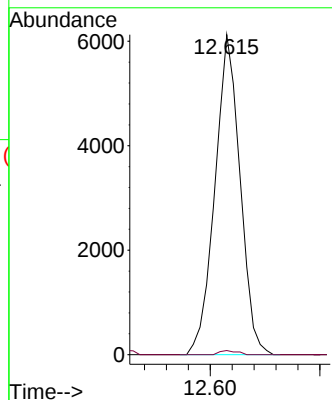
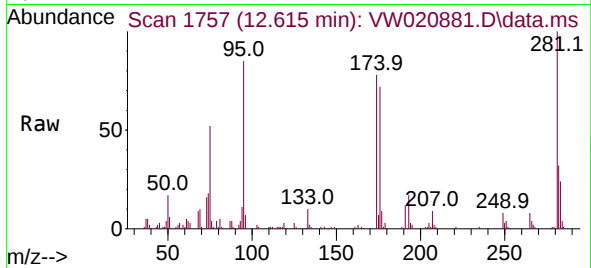




#76  
1,2,3-Trichloropropane  
Concen: 86.795 ug/l  
RT: 12.615 min Scan# 1757  
Delta R.T. -0.153 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion: 75 Resp: 9750  
Ion Ratio Lower Upper  
75 100  
77 0.9 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 170.849 ug/l  
RT: 12.615 min Scan# 1757  
Delta R.T. 0.103 min  
Lab File: VW020881.D  
Acq: 13 Nov 2021 02:26

Tgt Ion: 75 Resp: 9750  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.7 125.5#  
89 1.2 36.7 55.1#

