

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121820\  
 Data File : VW017678.D  
 Acq On : 18 Dec 2020 16:02  
 Operator : SY/VA  
 Sample : L5126-01RE  
 Misc : 3.98G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 19 00:13:28 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W121420S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 14 12:39:23 2020  
 Response via : Initial Calibration

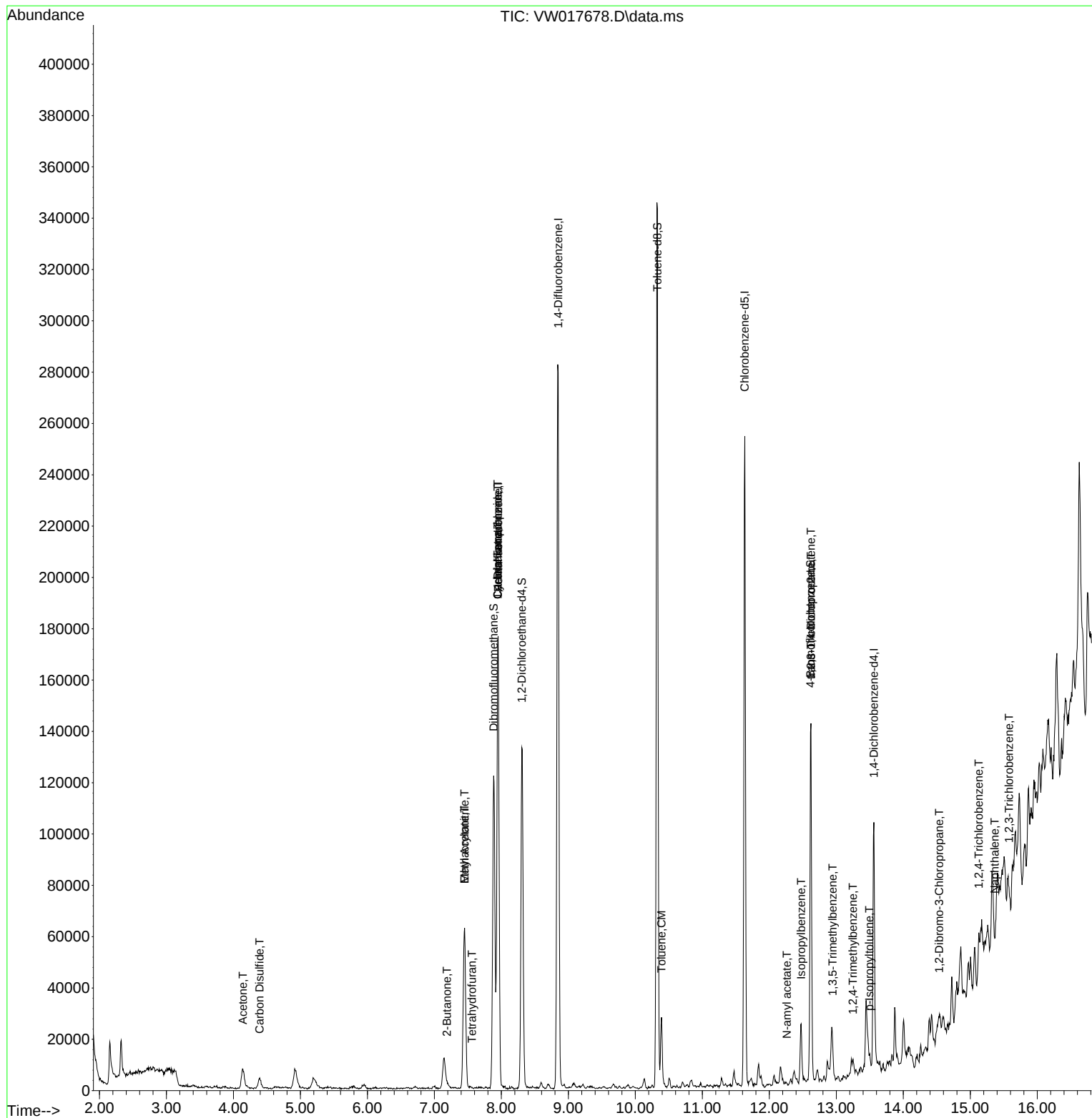
| Compound                      | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|---------|----------|
| -----                         |        |      |          |           |         |          |
| Internal Standards            |        |      |          |           |         |          |
| 1) Pentafluorobenzene         | 7.951  | 168  | 124181   | 50.00     | ug/l    | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.847  | 114  | 239287   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.634 | 117  | 128976   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.560 | 152  | 22848    | 50.00     | ug/l    | 0.00     |
|                               |        |      |          |           |         |          |
| System Monitoring Compounds   |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.305  | 65   | 106229   | 70.23     | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 140.46% |          |
| 35) Dibromofluoromethane      | 7.884  | 113  | 84834    | 53.57     | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 107.14% |          |
| 50) Toluene-d8                | 10.329 | 98   | 223254   | 36.21     | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 72.42%  |          |
| 62) 4-Bromofluorobenzene      | 12.615 | 95   | 43581    | 19.80     | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 39.60%  |          |
|                               |        |      |          |           |         |          |
| Target Compounds              |        |      |          |           |         | Qvalue   |
| 11) Tert butyl alcohol        | 5.196  | 59   | 4650     | Below Cal | #       | 54       |
| 16) Acetone                   | 4.141  | 43   | 15907    | 48.33     | ug/l #  | 78       |
| 17) Carbon Disulfide          | 4.391  | 76   | 8983     | 2.19      | ug/l #  | 93       |
| 20) Methylene Chloride        | 4.915  | 84   | 5963     | Below Cal |         | 90       |
| 25) 2-Butanone                | 7.189  | 43   | 1676     | 3.82      | ug/l #  | 71       |
| 26) 2,2-Dichloropropane       | 7.134  | 77   | 969      | Below Cal | #       | 50       |
| 29) Tetrahydrofuran           | 7.561  | 42   | 443      | 1.80      | ug/l #  | 27       |
| 31) Cyclohexane               | 7.945  | 56   | 3841     | 1.47      | ug/l #  | 47       |
| 36) 1,1-Dichloropropene       | 7.945  | 75   | 11755    | 4.69      | ug/l #  | 49       |
| 37) Ethyl Acetate             | 7.451  | 43   | 56122    | 53.61     | ug/l #  | 66       |
| 38) Carbon Tetrachloride      | 7.945  | 117  | 13801    | 5.48      | ug/l #  | 14       |
| 41) Methacrylonitrile         | 7.451  | 41   | 33748    | 57.07     | ug/l #  | 39       |
| 52) Toluene                   | 10.390 | 92   | 10525    | 2.43      | ug/l    | 95       |
| 73) Isopropylbenzene          | 12.475 | 105  | 2322     | 1.29      | ug/l    | 87       |
| 74) N-amyl acetate            | 12.262 | 43   | 439      | 1.16      | ug/l #  | 82       |
| 76) 1,2,3-Trichloropropane    | 12.621 | 75   | 25034    | 113.82    | ug/l #  | 1        |
| 80) 1,3,5-Trimethylbenzene    | 12.944 | 105  | 2002     | 1.31      | ug/l    | 83       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 25034    | 230.61    | ug/l #  | 11       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 3970     | 2.64      | ug/l    | 91       |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 2584     | 1.56      | ug/l #  | 80       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.535 | 75   | 76       | 1.39      | ug/l #  | 1        |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 2165     | 4.94      | ug/l #  | 54       |
| 95) Naphthalene               | 15.365 | 128  | 3494     | 3.90      | ug/l #  | 31       |
| 96) 1,2,3-Trichlorobenzene    | 15.578 | 180  | 731      | 1.93      | ug/l #  | 26       |
| -----                         |        |      |          |           |         |          |

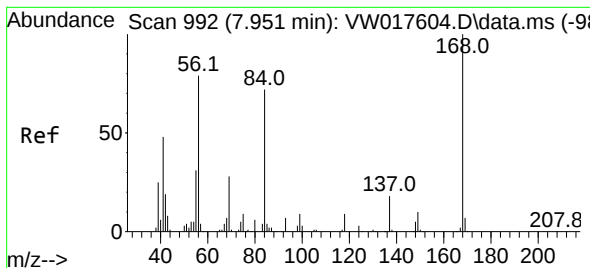
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 14 12:39:23 2020  
Response via : Initial Calibration

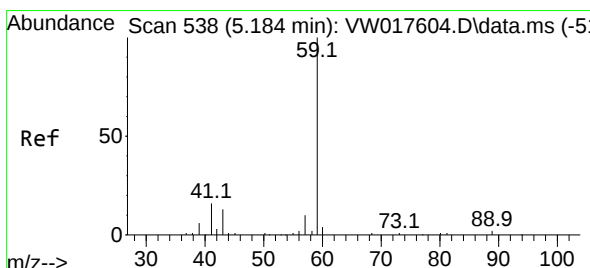
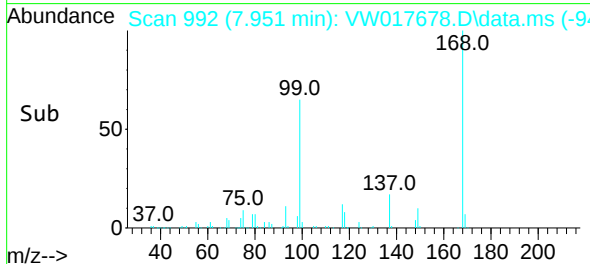
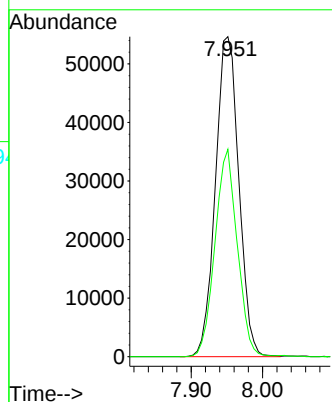
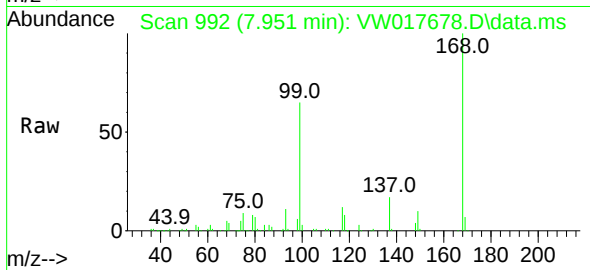




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.951 min Scan# 992  
Delta R.T. 0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

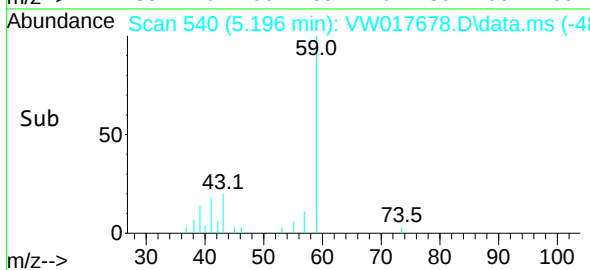
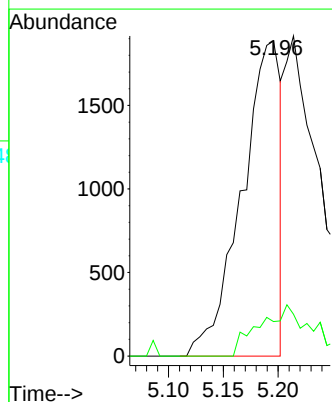
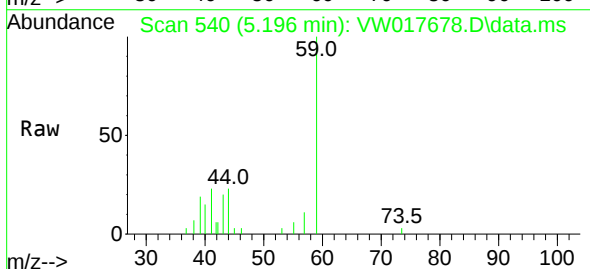
Instrument :  
MSVOA\_W  
ClientSampleId :

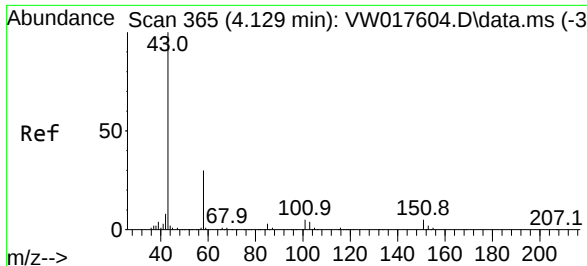
Tgt Ion:168 Resp: 124181  
Ion Ratio Lower Upper  
168 100  
99 64.8 40.7 61.1#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.196 min Scan# 540  
Delta R.T. 0.012 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 59 Resp: 4650  
Ion Ratio Lower Upper  
59 100  
57 21.5 4.7 7.1#

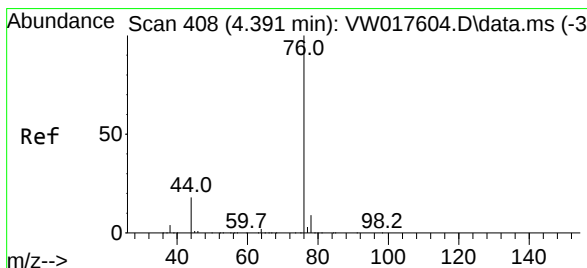
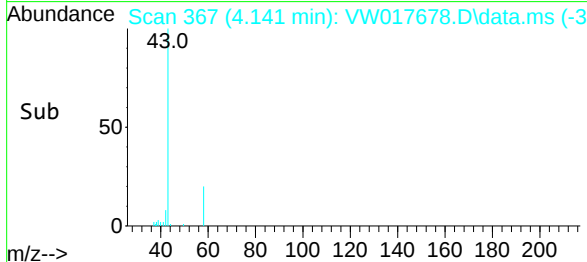
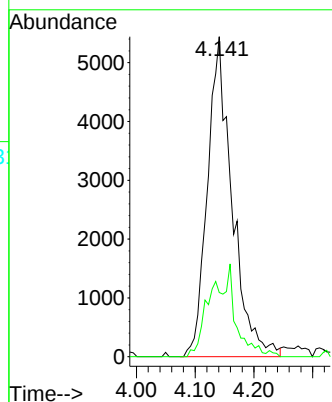
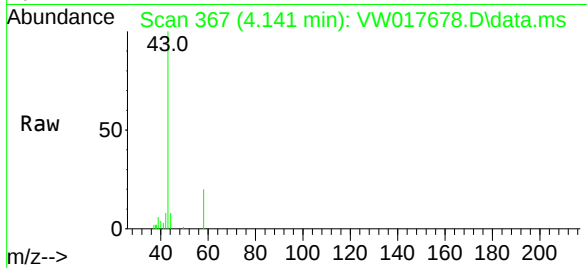




#16  
Acetone  
Concen: 48.33 ug/l  
RT: 4.141 min Scan# 367  
Delta R.T. 0.012 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

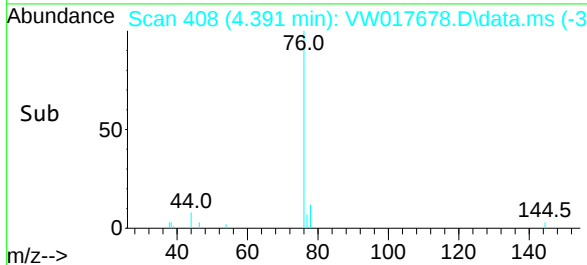
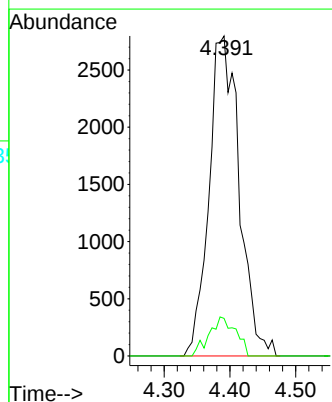
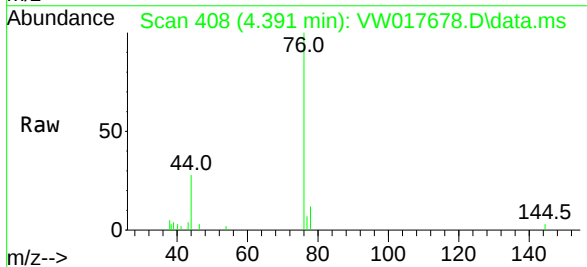
Instrument :  
MSVOA\_W  
ClientSampled :

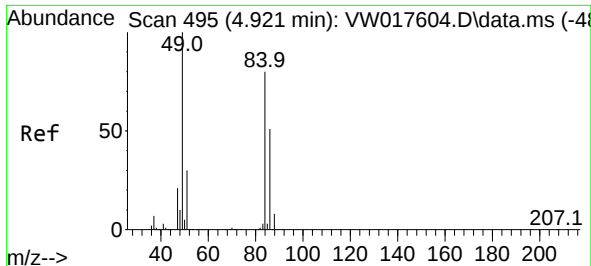
Tgt Ion: 43 Resp: 15907  
Ion Ratio Lower Upper  
43 100  
58 20.1 25.7 38.5#



#17  
Carbon Disulfide  
Concen: 2.19 ug/l  
RT: 4.391 min Scan# 408  
Delta R.T. -0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 76 Resp: 8983  
Ion Ratio Lower Upper  
76 100  
78 11.8 7.4 11.2#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.915 min Scan# 494

Delta R.T. -0.006 min

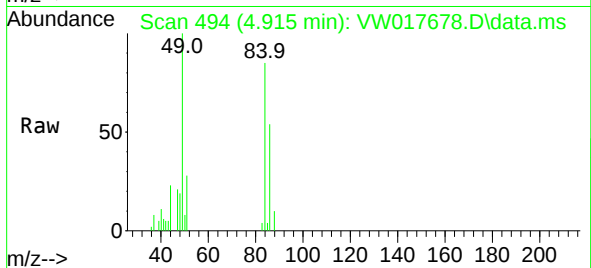
Lab File: VW017678.D

Acq: 18 Dec 2020 16:02

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion: 84 Resp: 5963

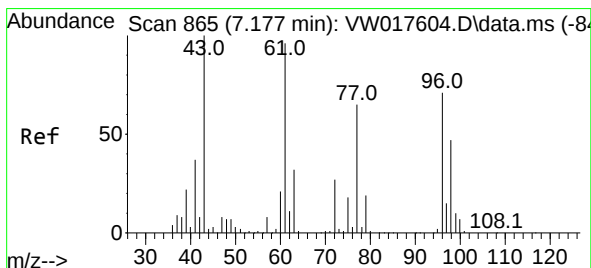
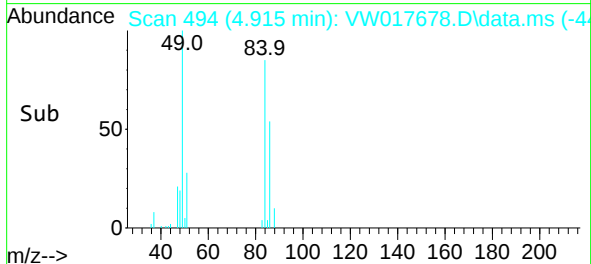
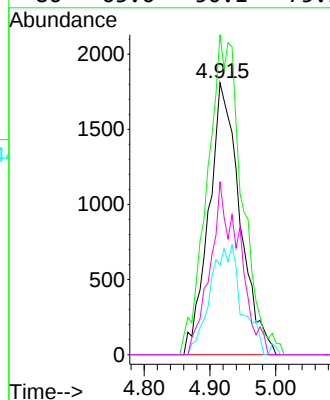
Ion Ratio Lower Upper

84 100

49 117.7 79.0 118.6

51 32.9 26.1 39.1

86 63.6 50.1 75.1



#25

2-Butanone

Concen: 3.82 ug/l

RT: 7.189 min Scan# 867

Delta R.T. 0.012 min

Lab File: VW017678.D

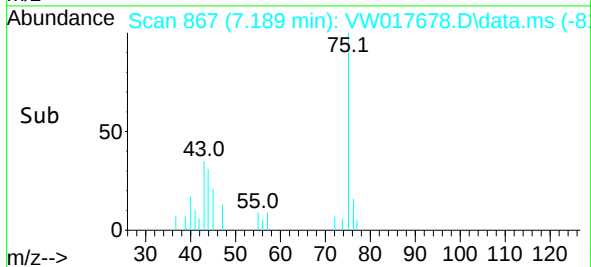
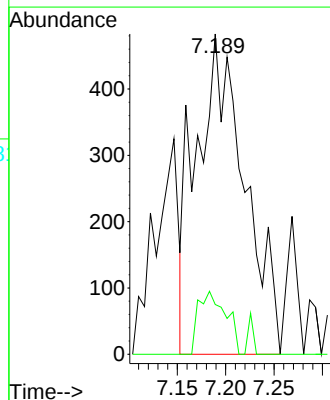
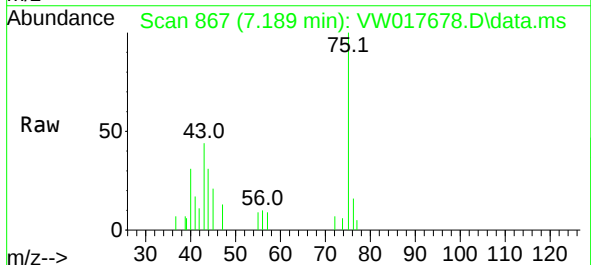
Acq: 18 Dec 2020 16:02

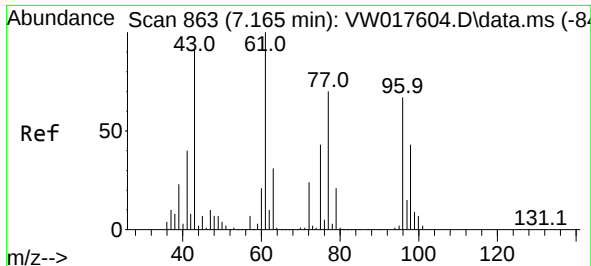
Tgt Ion: 43 Resp: 1676

Ion Ratio Lower Upper

43 100

72 15.5 25.4 38.2#

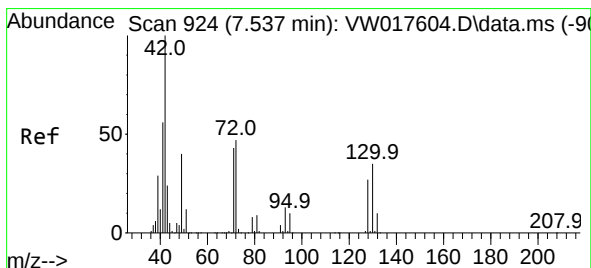
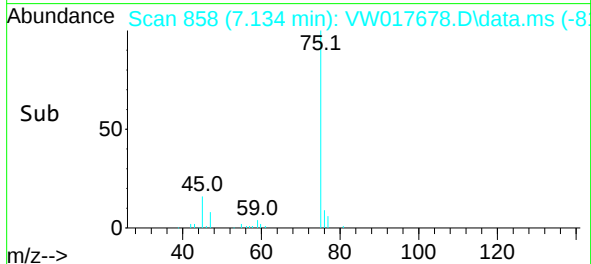
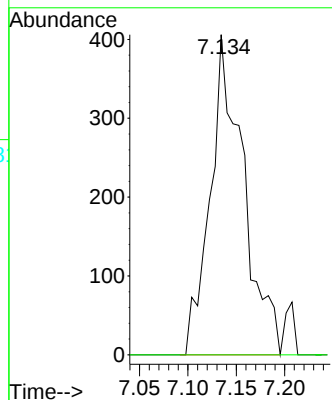
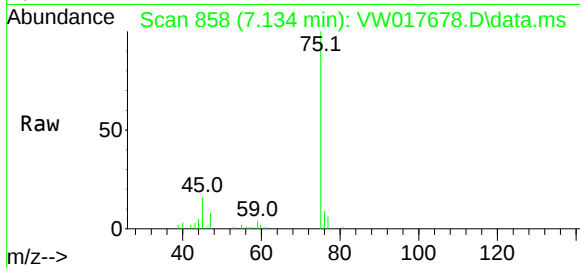




#26  
2,2-Dichloropropane  
Concen: Below Cal  
RT: 7.134 min Scan# 858  
Delta R.T. -0.031 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

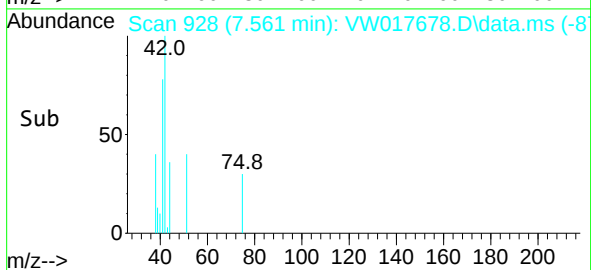
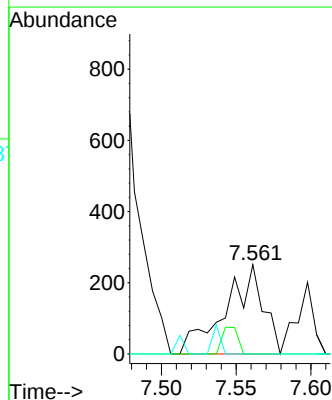
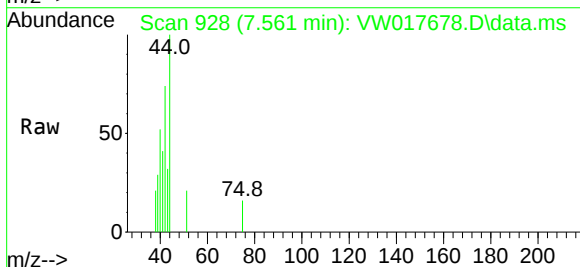
Instrument :  
MSVOA\_W  
ClientSampled :

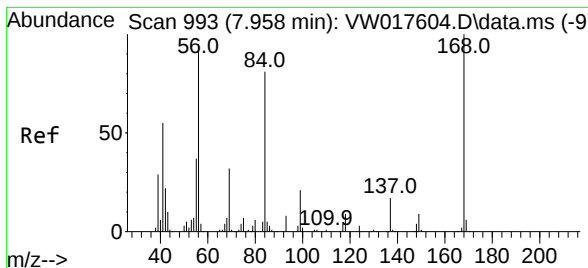
Tgt Ion: 77 Resp: 969  
Ion Ratio Lower Upper  
77 100  
97 0.0 12.4 37.4#



#29  
Tetrahydrofuran  
Concen: 1.80 ug/l  
RT: 7.561 min Scan# 928  
Delta R.T. 0.024 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 42 Resp: 443  
Ion Ratio Lower Upper  
42 100  
72 0.0 42.0 63.0#  
71 0.0 39.0 58.6#

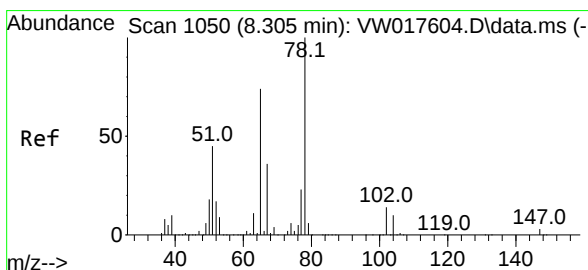
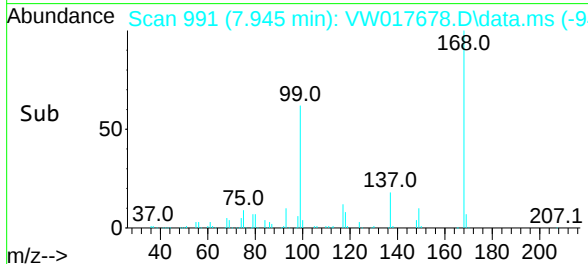
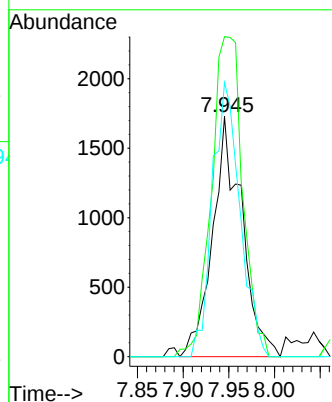
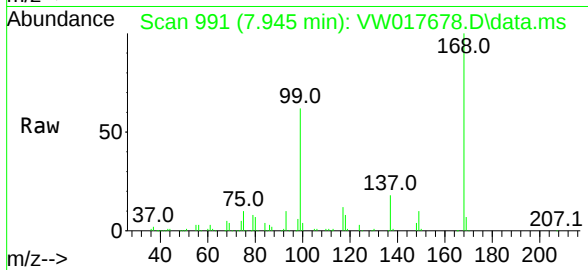




#31  
Cyclohexane  
Concen: 1.47 ug/l  
RT: 7.945 min Scan# 991  
Delta R.T. -0.013 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

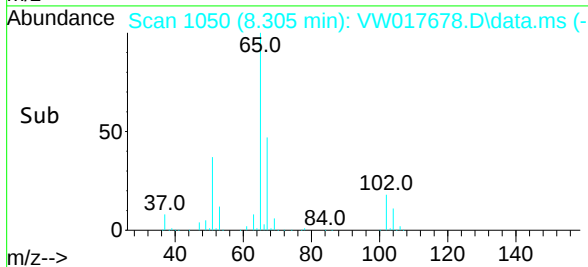
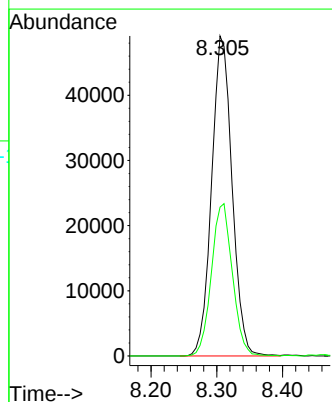
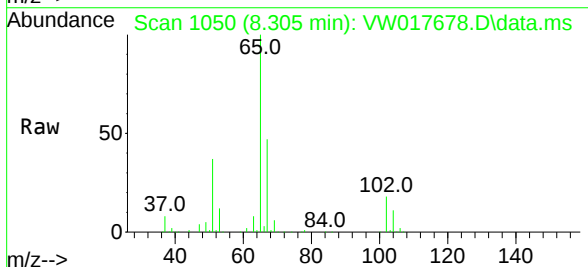
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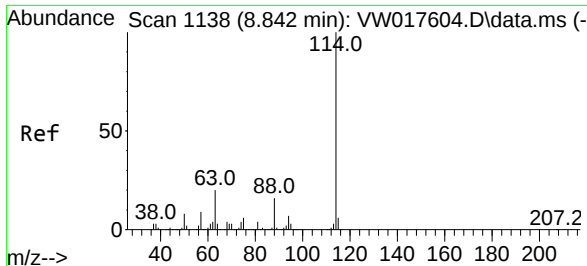
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Ion Ratio Lower Upper  
56 100  
69 133.2 29.3 43.9#  
84 114.1 80.5 120.7



#33  
1,2-Dichloroethane-d4  
Concen: 70.23 ug/l  
RT: 8.305 min Scan# 1050  
Delta R.T. -0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 65 Resp: 106229  
Ion Ratio Lower Upper  
65 100  
67 48.9 0.0 103.8

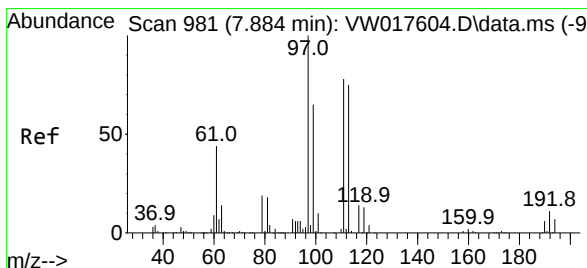
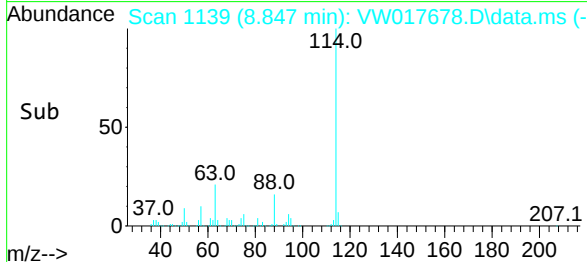
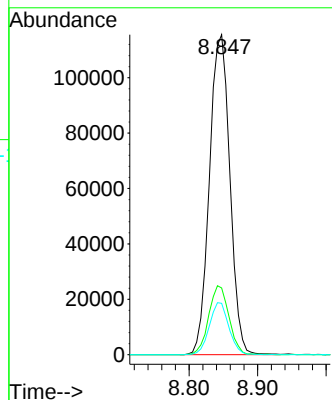
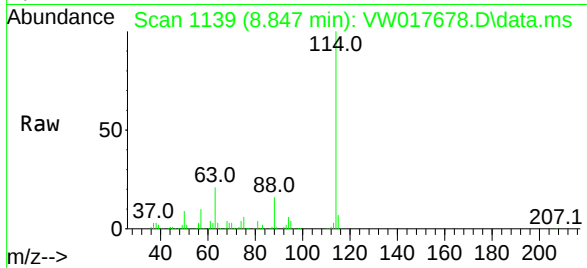




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.847 min Scan# 1139  
Delta R.T. 0.005 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

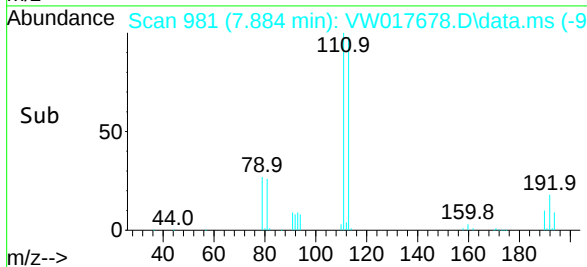
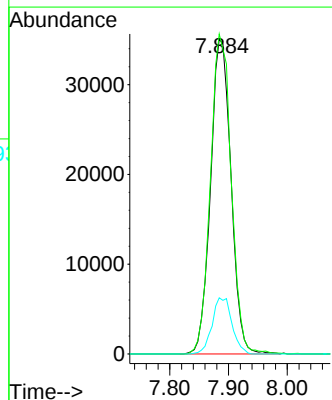
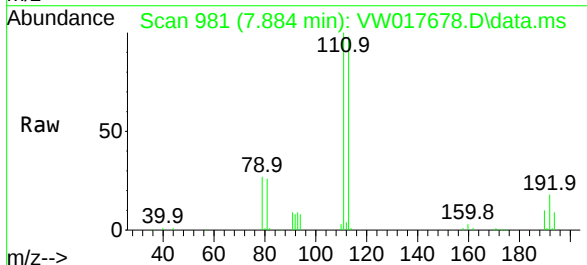
Instrument :  
MSVOA\_W  
ClientSampleId :

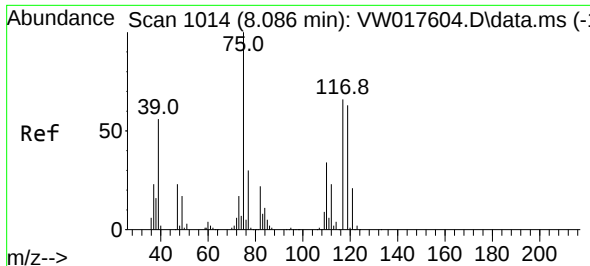
Tgt Ion:114 Resp: 239287  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 35.6  
88 16.0 0.0 30.4



#35  
Dibromofluoromethane  
Concen: 53.57 ug/l  
RT: 7.884 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

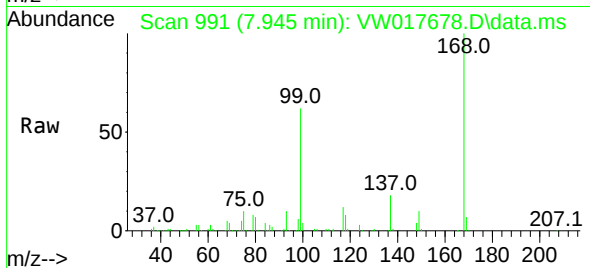
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192 17.3 17.8 26.8#



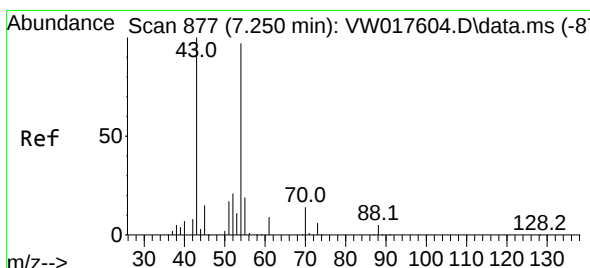
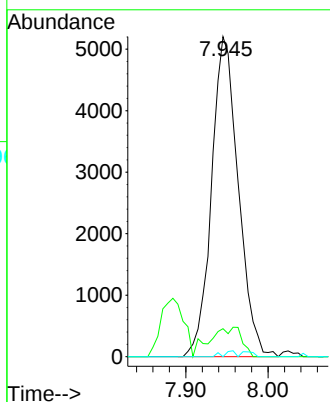
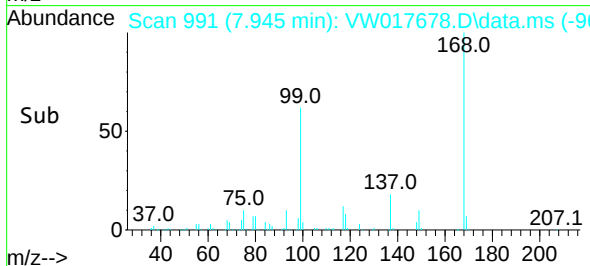


#36  
1,1-Dichloropropene  
Concen: 4.69 ug/l  
RT: 7.945 min Scan# 991  
Delta R.T. -0.141 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

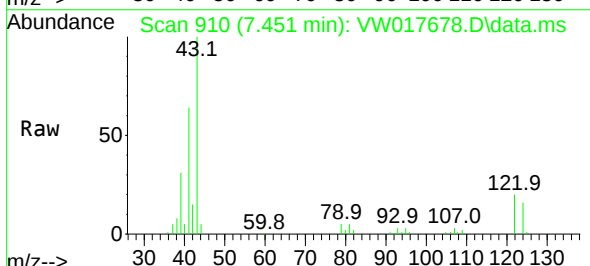
Instrument :  
MSVOA\_W  
ClientSampleId :



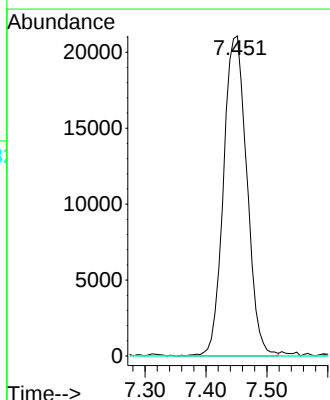
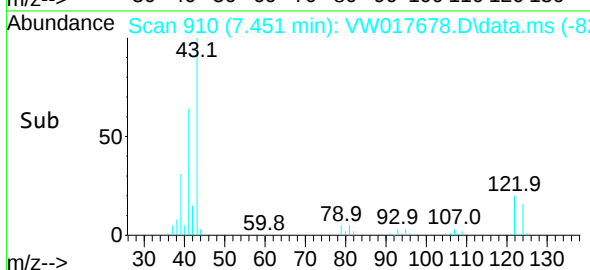
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 19.3  | 57.9# |
| 77      | 0.8   | 25.0  | 37.6# |

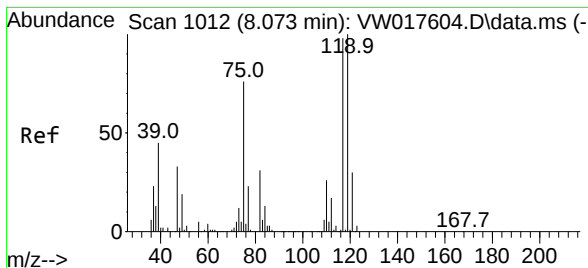


#37  
Ethyl Acetate  
Concen: 53.61 ug/l  
RT: 7.451 min Scan# 910  
Delta R.T. 0.201 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02



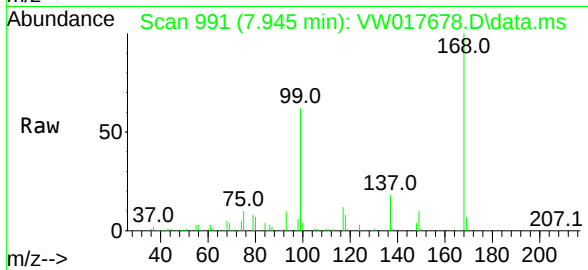
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 12.0  | 18.0# |
| 70      | 0.0   | 9.9   | 14.9# |



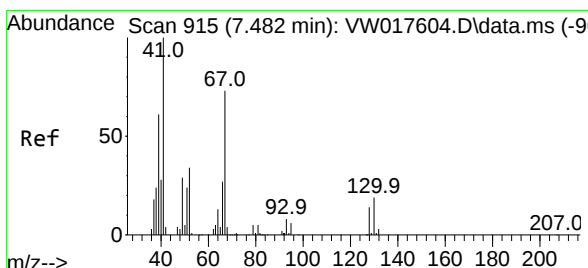
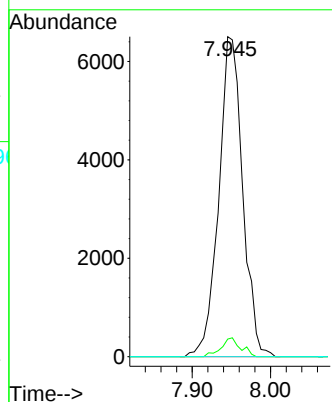
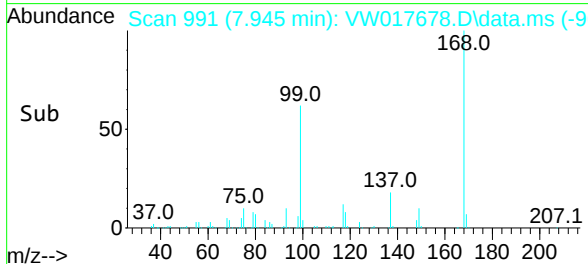


#38  
Carbon Tetrachloride  
Concen: 5.48 ug/l  
RT: 7.945 min Scan# 991  
Delta R.T. -0.128 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

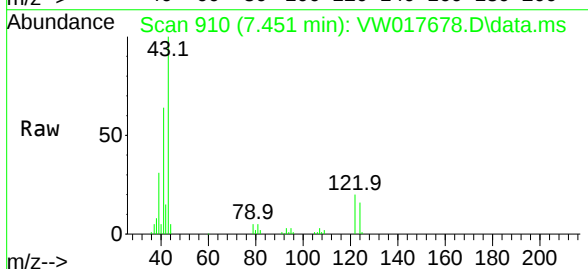
Instrument :  
MSVOA\_W  
ClientSampleId :



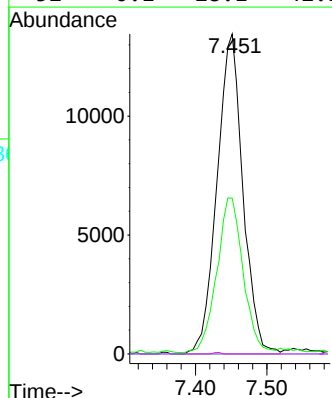
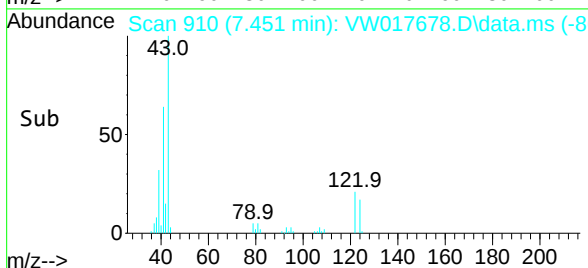
Tgt Ion:117 Resp: 13801  
Ion Ratio Lower Upper  
117 100  
119 5.5 81.6 122.4#  
121 0.0 25.7 38.5#

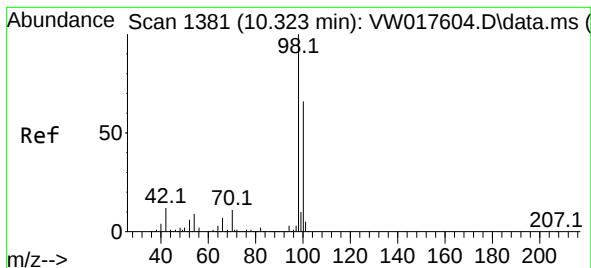


#41  
Methacrylonitrile  
Concen: 57.07 ug/l  
RT: 7.451 min Scan# 910  
Delta R.T. -0.031 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02



Tgt Ion: 41 Resp: 33748  
Ion Ratio Lower Upper  
41 100  
39 49.2 47.0 70.6  
67 0.0 68.6 102.8#  
52 0.1 28.1 42.1#

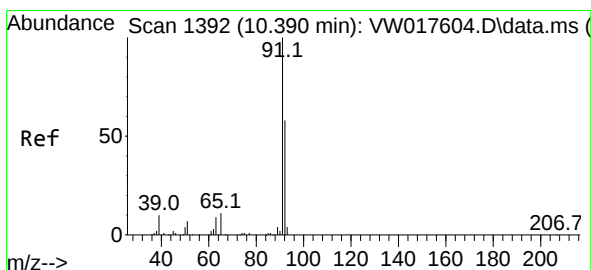
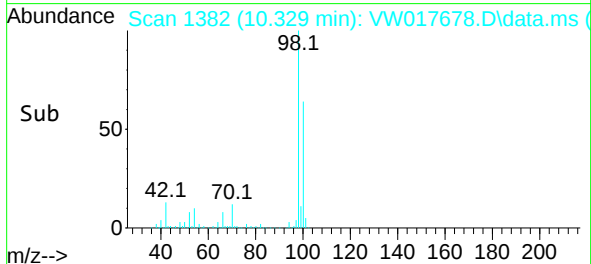
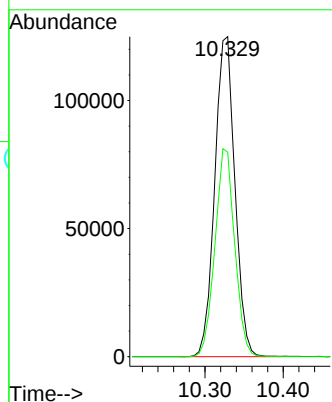
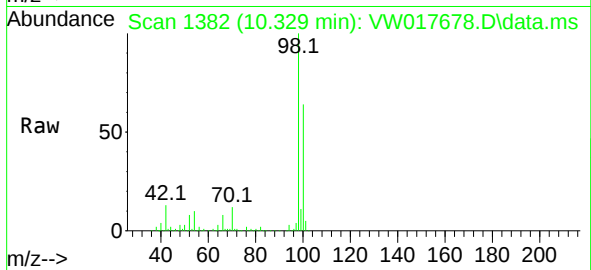




#50  
Toluene-d8  
Concen: 36.21 ug/l  
RT: 10.329 min Scan# 1382  
Delta R.T. 0.006 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

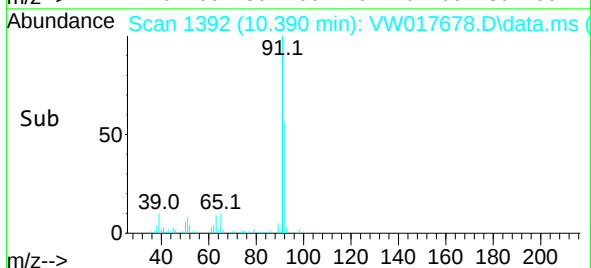
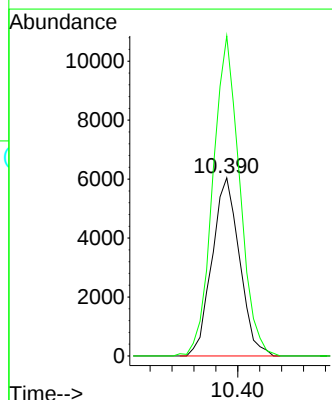
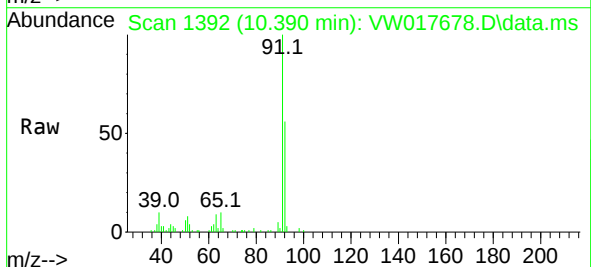
Instrument :  
MSVOA\_W  
ClientSampleId :

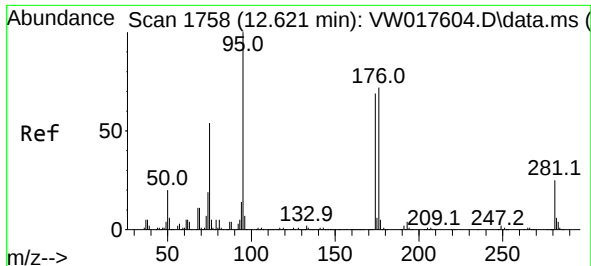
Tgt Ion: 98 Resp: 223254  
Ion Ratio Lower Upper  
98 100  
100 63.8 53.3 79.9



#52  
Toluene  
Concen: 2.43 ug/l  
RT: 10.390 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 92 Resp: 10525  
Ion Ratio Lower Upper  
92 100  
91 175.2 134.7 202.1

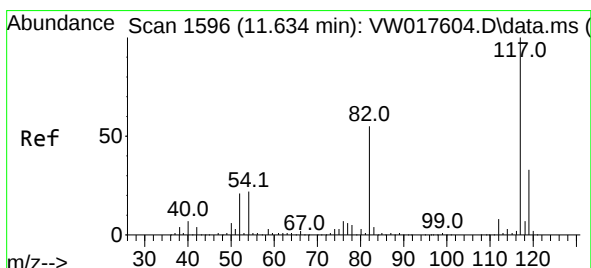
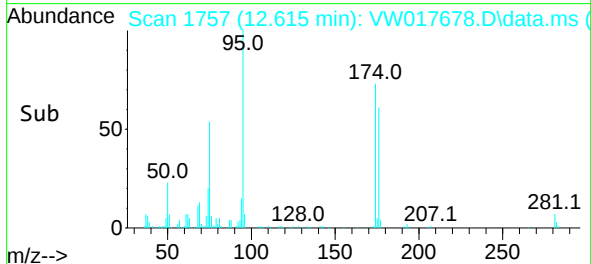
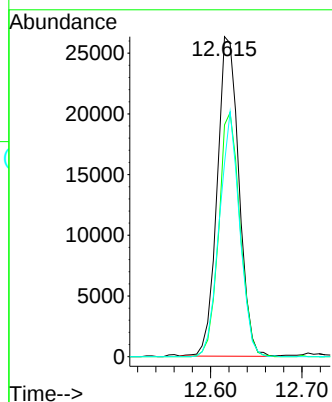
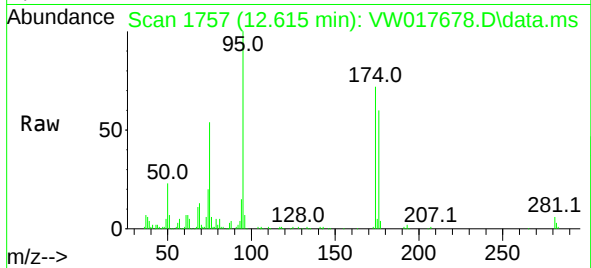




#62  
4-Bromofluorobenzene  
Concen: 19.80 ug/l  
RT: 12.615 min Scan# 1757  
Delta R.T. -0.006 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

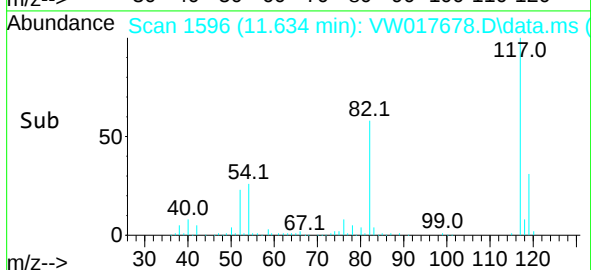
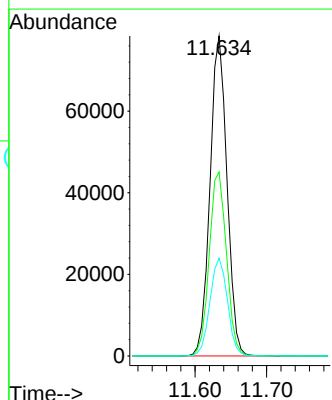
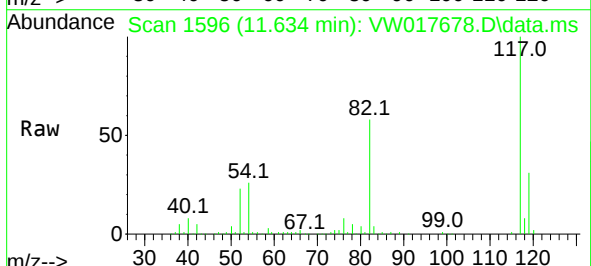
Instrument :  
MSVOA\_W  
ClientSampleId :

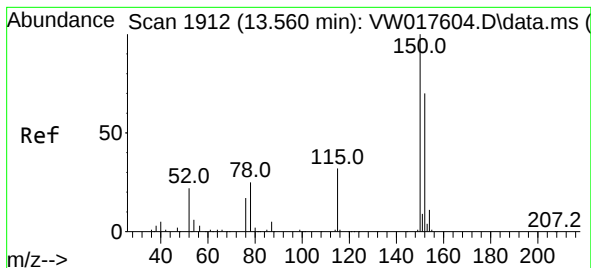
Tgt Ion: 95 Resp: 43581  
Ion Ratio Lower Upper  
95 100  
174 74.5 0.0 180.6  
176 71.4 0.0 177.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.634 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion:117 Resp: 128976  
Ion Ratio Lower Upper  
117 100  
82 57.4 40.7 61.1  
119 30.6 25.0 37.4

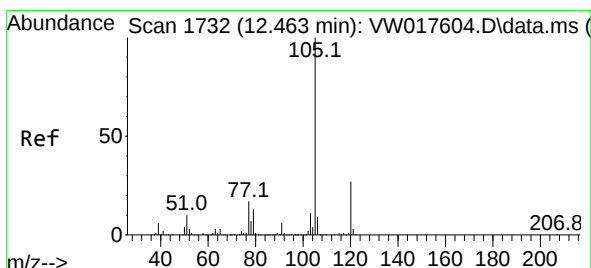
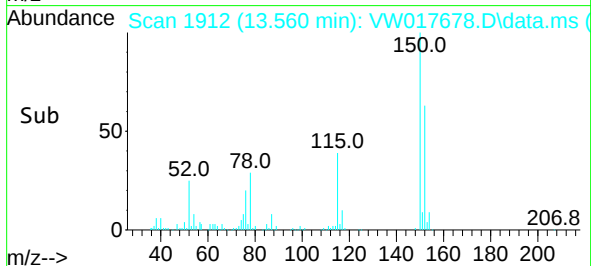
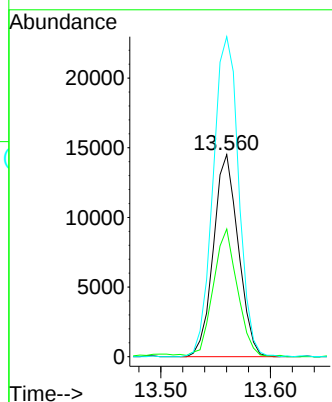
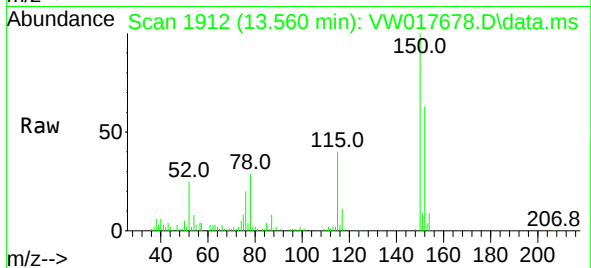




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.560 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

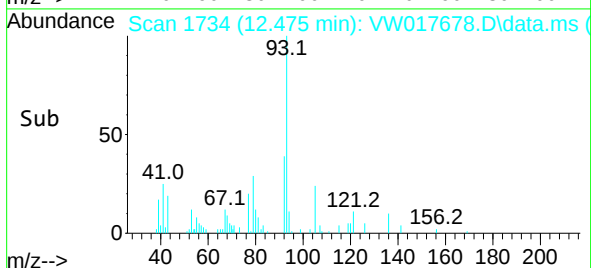
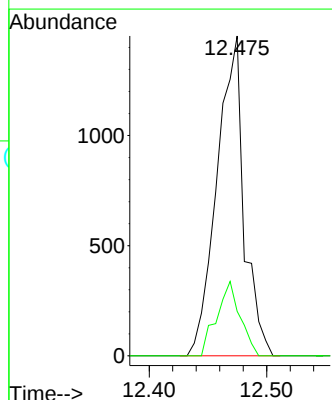
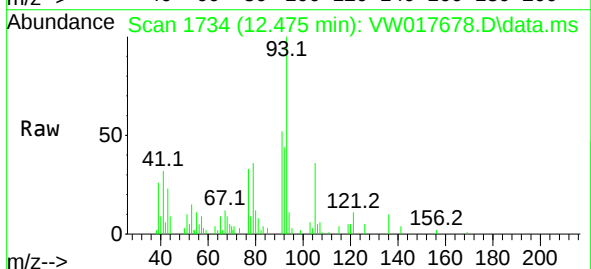
Instrument :  
MSVOA\_W  
ClientSampleId :

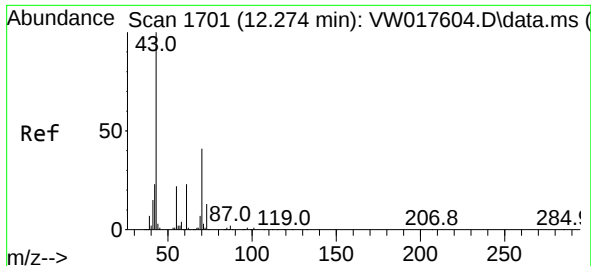
Tgt Ion:152 Resp: 22848  
Ion Ratio Lower Upper  
152 100  
115 61.7 27.9 83.7  
150 163.2 0.0 344.0



#73  
Isopropylbenzene  
Concen: 1.29 ug/l  
RT: 12.475 min Scan# 1734  
Delta R.T. 0.012 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

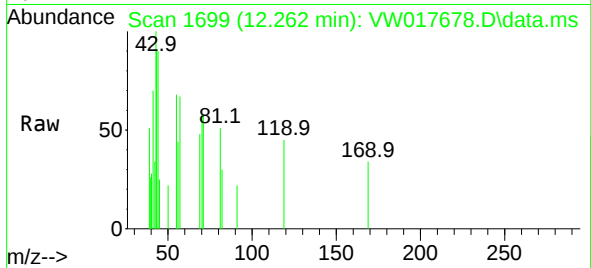
Tgt Ion:105 Resp: 2322  
Ion Ratio Lower Upper  
105 100  
120 20.1 13.6 40.7



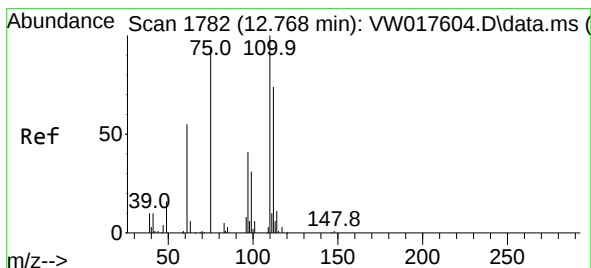
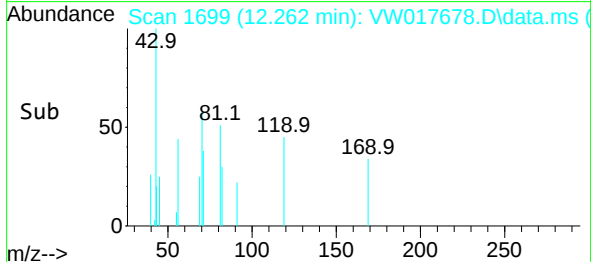
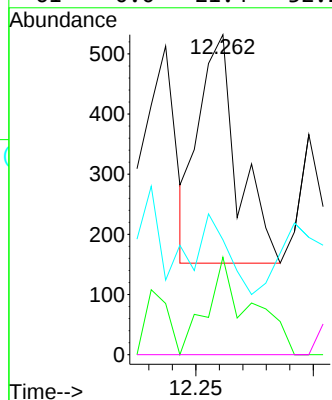


#74  
N-amy1 acetate  
Concen: 1.16 ug/l  
RT: 12.262 min Scan# 1699  
Delta R.T. -0.012 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Instrument :  
MSVOA\_W  
ClientSampleId :

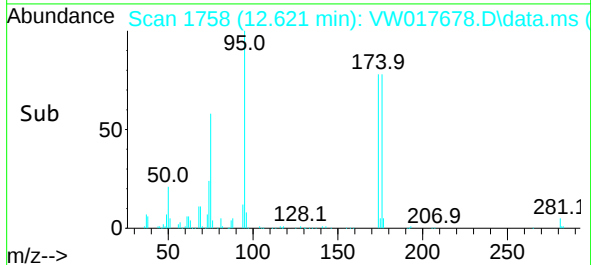
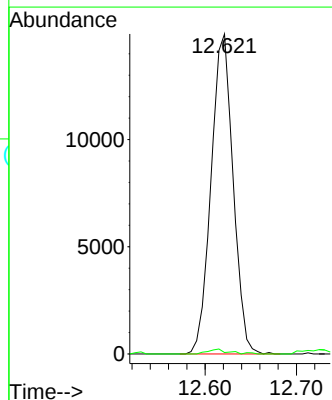
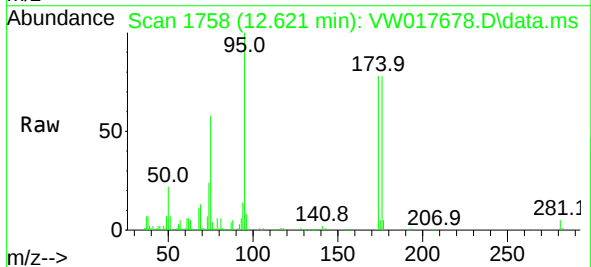


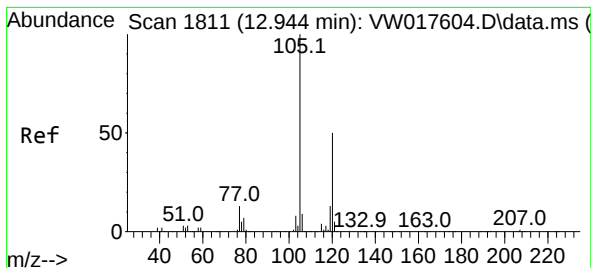
Tgt Ion: 43 Resp: 439  
Ion Ratio Lower Upper  
43 100  
70 47.4 40.2 60.4  
55 22.1 21.4 32.0  
61 0.0 21.4 32.2#



#76  
1,2,3-Trichloropropane  
Concen: 113.82 ug/l  
RT: 12.621 min Scan# 1758  
Delta R.T. -0.147 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 75 Resp: 25034  
Ion Ratio Lower Upper  
75 100  
77 1.4 178.8 536.3#

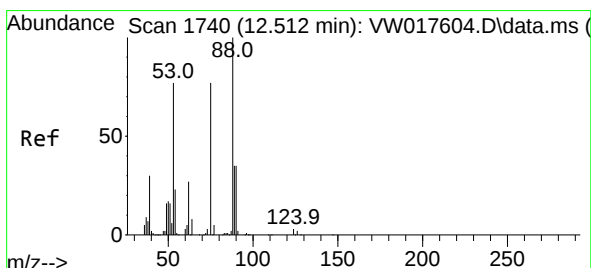
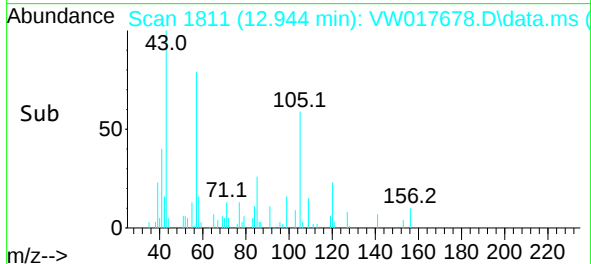
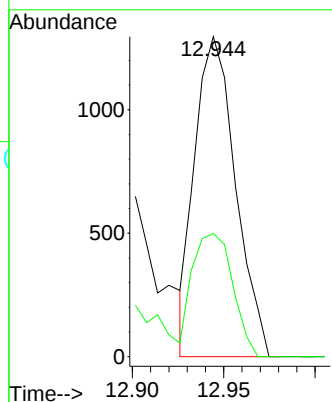
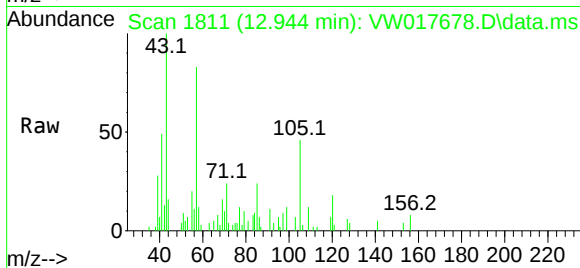




#80  
1,3,5-Trimethylbenzene  
Concen: 1.31 ug/l  
RT: 12.944 min Scan# 1811  
Delta R.T. 0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

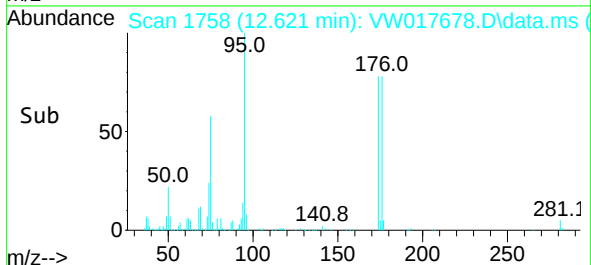
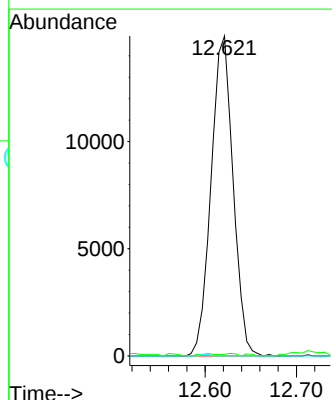
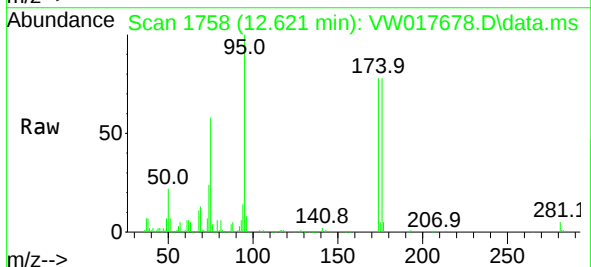
Instrument :  
MSVOA\_W  
ClientSampleId :

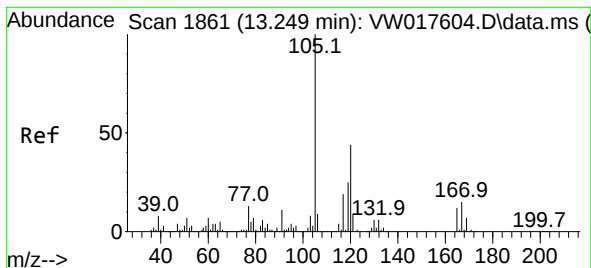
Tgt Ion:105 Resp: 2002  
Ion Ratio Lower Upper  
105 100  
120 38.4 24.9 74.8



#81  
trans-1,4-Dichloro-2-butene  
Concen: 230.61 ug/l  
RT: 12.621 min Scan# 1758  
Delta R.T. 0.109 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 75 Resp: 25034  
Ion Ratio Lower Upper  
75 100  
53 0.4 77.0 115.4#  
89 0.0 38.7 58.1#

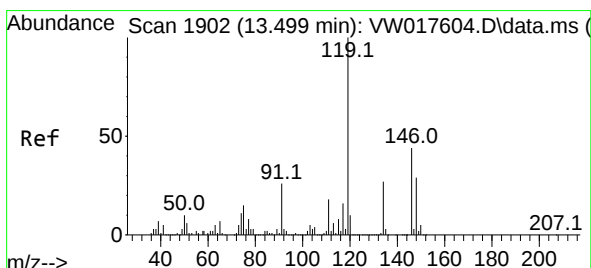
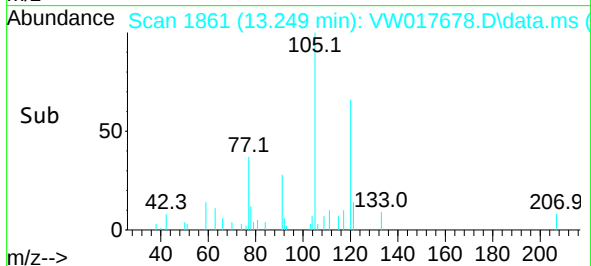
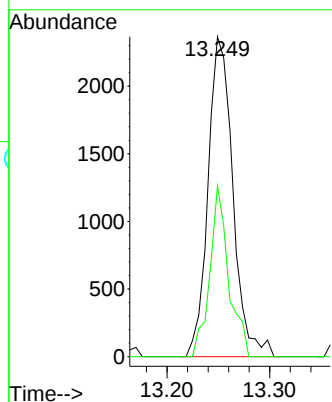
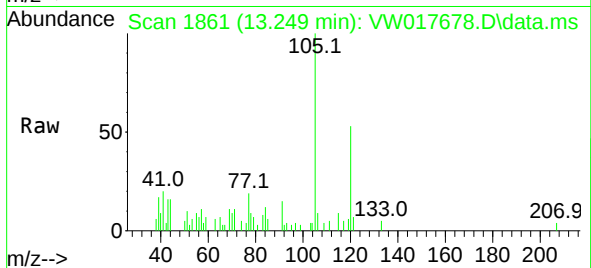




#84  
1,2,4-Trimethylbenzene  
Concen: 2.64 ug/l  
RT: 13.249 min Scan# 1861  
Delta R.T. 0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

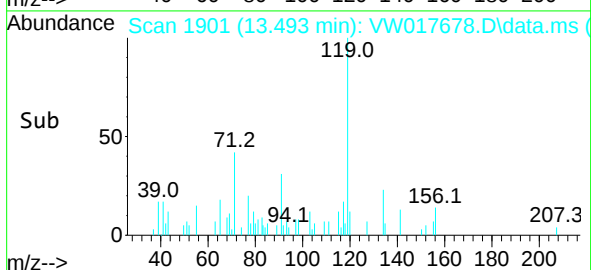
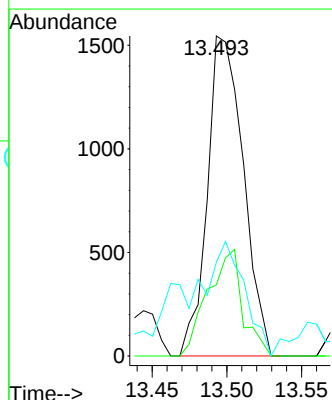
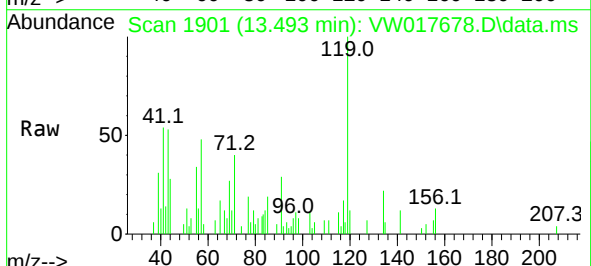
Instrument :  
MSVOA\_W  
ClientSampleId :

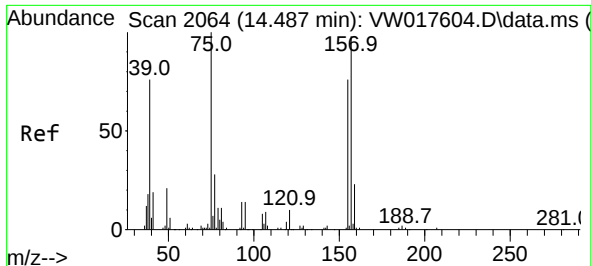
Tgt Ion:105 Resp: 3970  
Ion Ratio Lower Upper  
105 100  
120 40.6 23.4 70.0



#86  
p-Isopropyltoluene  
Concen: 1.56 ug/l  
RT: 13.493 min Scan# 1901  
Delta R.T. -0.006 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

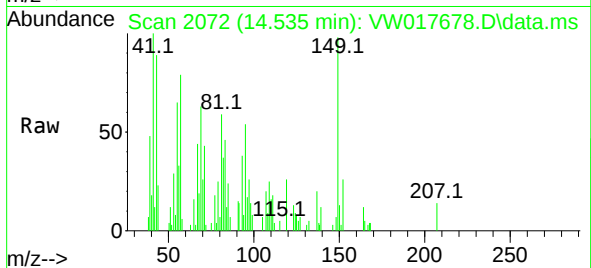
Tgt Ion:119 Resp: 2584  
Ion Ratio Lower Upper  
119 100  
134 32.2 13.8 41.3  
91 39.2 11.3 33.9#



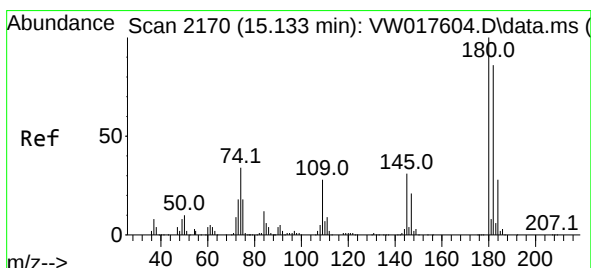
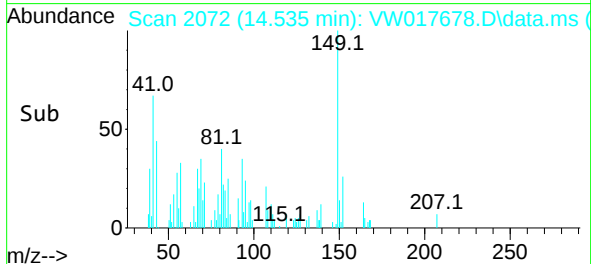
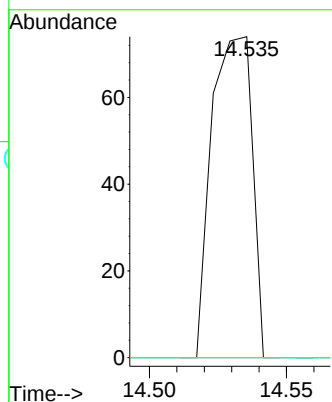


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.39 ug/l  
RT: 14.535 min Scan# 2072  
Delta R.T. 0.048 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Instrument :  
MSVOA\_W  
ClientSampleId :

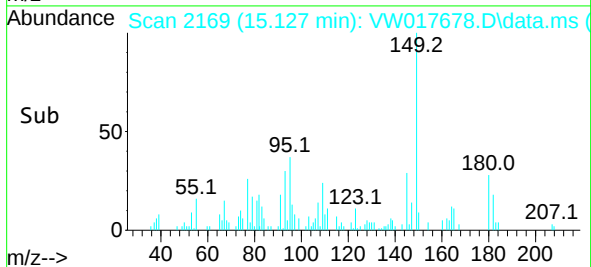
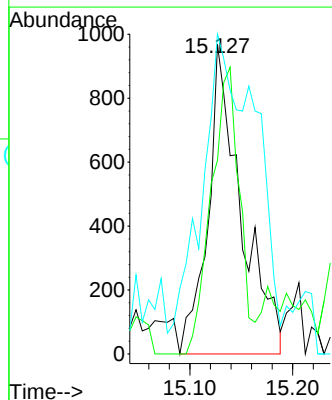
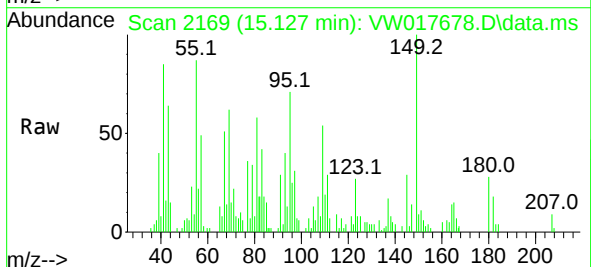


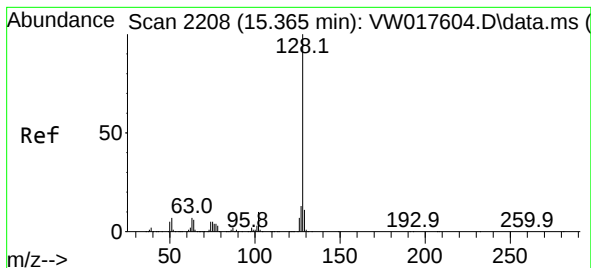
Tgt Ion: 75 Resp: 76  
Ion Ratio Lower Upper  
75 100  
155 0.0 47.6 142.8#  
157 0.0 62.2 186.6#



#93  
1,2,4-Trichlorobenzene  
Concen: 4.94 ug/l  
RT: 15.127 min Scan# 2169  
Delta R.T. -0.006 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion: 180 Resp: 2165  
Ion Ratio Lower Upper  
180 100  
182 78.9 48.3 144.9  
145 103.9 14.9 44.5#

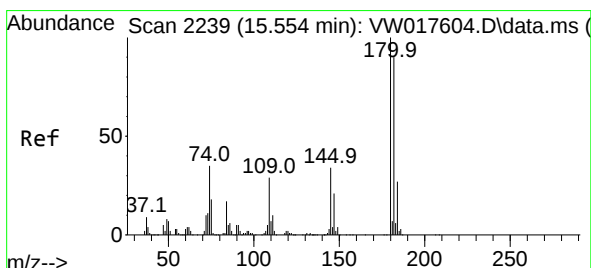
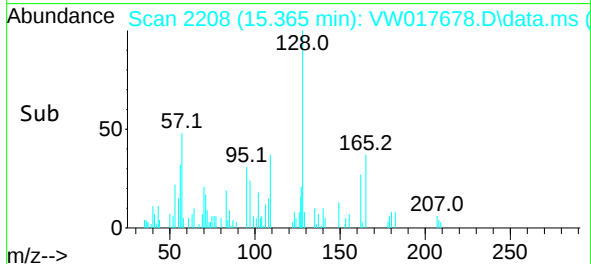
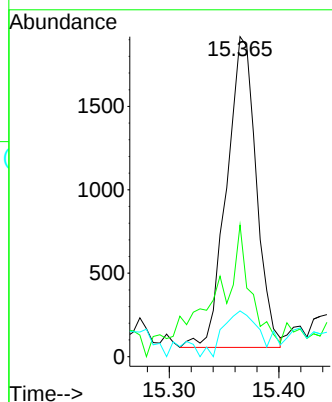
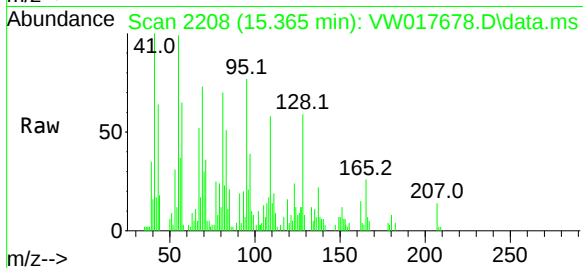




#95  
Naphthalene  
Concen: 3.90 ug/l  
RT: 15.365 min Scan# 2208  
Delta R.T. -0.000 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion:128 Resp: 3494  
Ion Ratio Lower Upper  
128 100  
127 57.5 10.4 15.6#  
129 16.8 8.6 12.8#



#96  
1,2,3-Trichlorobenzene  
Concen: 1.93 ug/l  
RT: 15.578 min Scan# 2243  
Delta R.T. 0.024 min  
Lab File: VW017678.D  
Acq: 18 Dec 2020 16:02

Tgt Ion:180 Resp: 731  
Ion Ratio Lower Upper  
180 100  
182 19.6 49.4 148.2#  
145 0.0 16.3 48.9#

