

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111822\  
 Data File : VY011511.D  
 Acq On : 18 Nov 2022 18:58  
 Operator : KP/MD  
 Sample : N5698-02  
 Misc : 4.99g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 19 22:42:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 2022  
 Response via : Initial Calibration

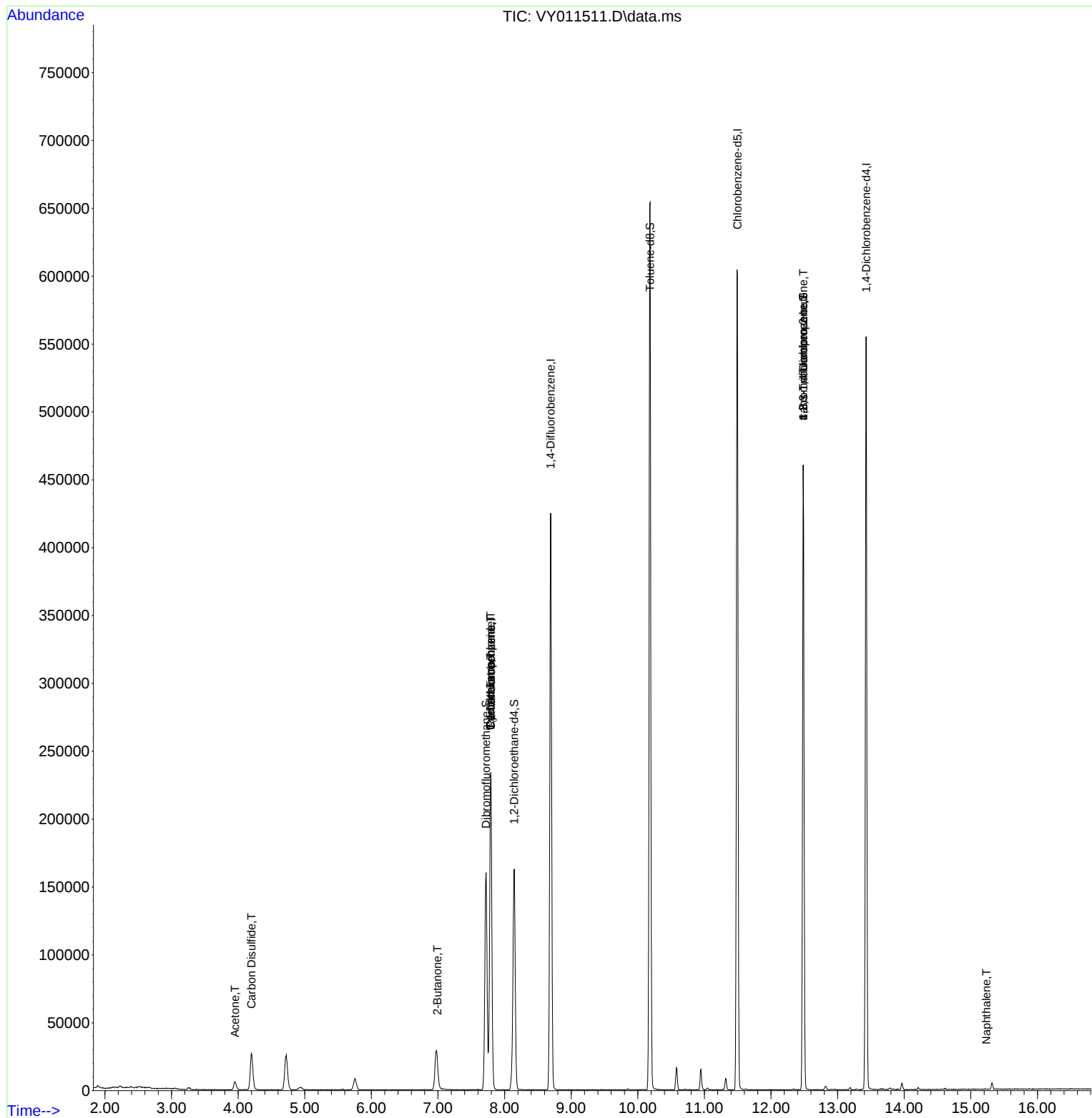
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 179696   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 344073   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 327017   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 137397   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.142  | 65    | 122478   | 67.125    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 134.240% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 112337   | 53.037    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 106.080% |          |
| 50) Toluene-d8                | 10.185 | 98    | 420454   | 54.626    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 109.260% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 130691   | 45.924    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 91.840%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.906  | 85    | 349      | Below Cal |            | 86       |
| 3) Chloromethane              | 2.119  | 50    | 217      | Below Cal | #          | 44       |
| 5) Bromomethane               | 2.662  | 94    | 219      | Below Cal | #          | 62       |
| 11) Tert butyl alcohol        | 4.942  | 59    | 2556     | Below Cal | #          | 77       |
| 16) Acetone                   | 3.954  | 43    | 10670    | 18.003    | ug/l       | 94       |
| 17) Carbon Disulfide          | 4.198  | 76    | 51791    | 11.833    | ug/l       | 99       |
| 18) Methyl Acetate            | 4.485  | 43    | 108      | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.722  | 84    | 18396    | Below Cal |            | 90       |
| 25) 2-Butanone                | 6.990  | 43    | 2156     | 2.768     | ug/l #     | 81       |
| 31) Cyclohexane               | 7.789  | 56    | 4084     | 1.350     | ug/l #     | 5        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 14876    | 4.493     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 18268    | 4.932     | ug/l #     | 15       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 69924    | 47.256    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 69924    | 103.507   | ug/l #     | 7        |
| 95) Naphthalene               | 15.233 | 128   | 145      | 4.048     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

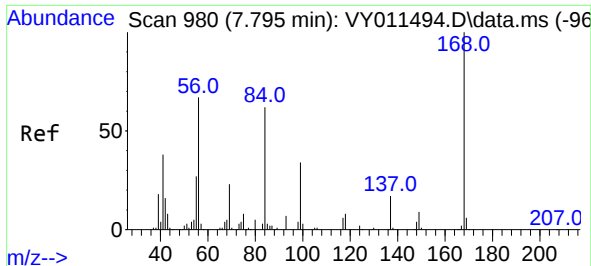
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111822\  
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Sample : N5698-02  
Misc : 4.99g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Nov 19 22:42:21 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 19 22:37:14 2022  
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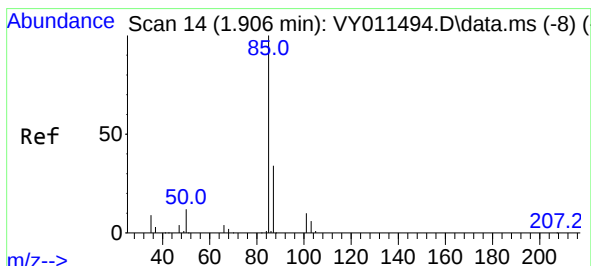
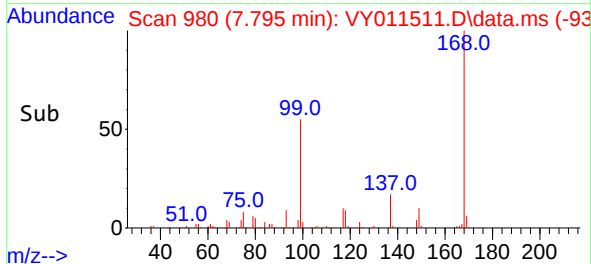
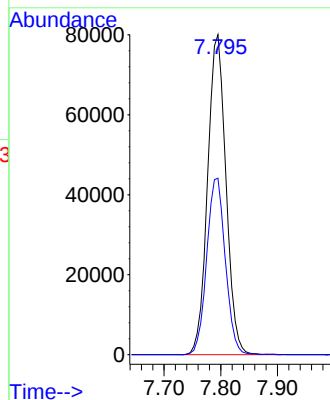
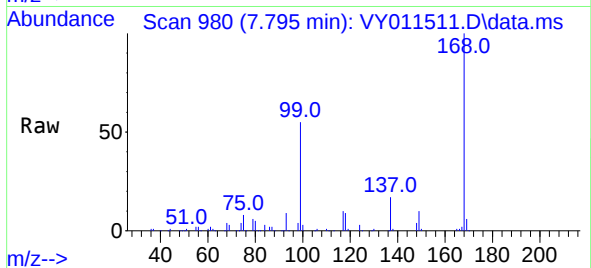




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

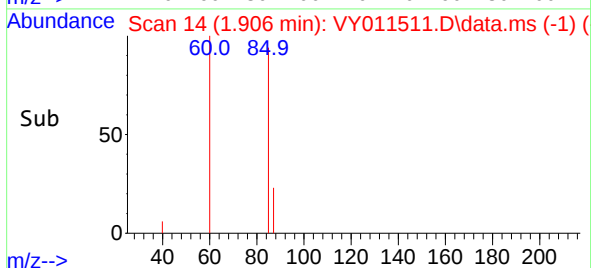
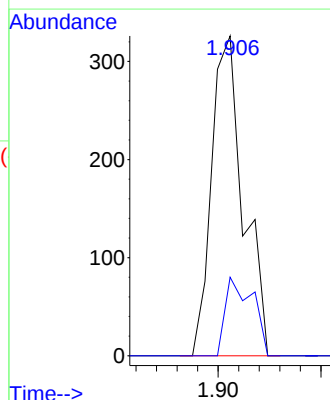
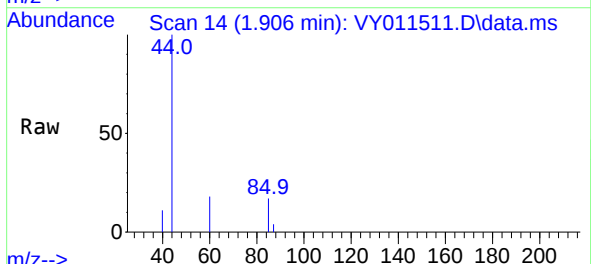
Instrument :  
MSVOA\_Y  
ClientSampleId :

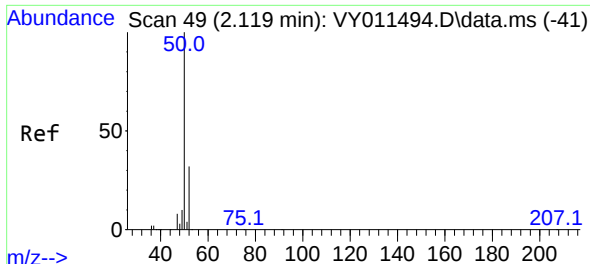
Tgt Ion:168 Resp: 179696  
Ion Ratio Lower Upper  
168 100  
99 55.1 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.906 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Tgt Ion: 85 Resp: 349  
Ion Ratio Lower Upper  
85 100  
87 24.5 16.1 48.2

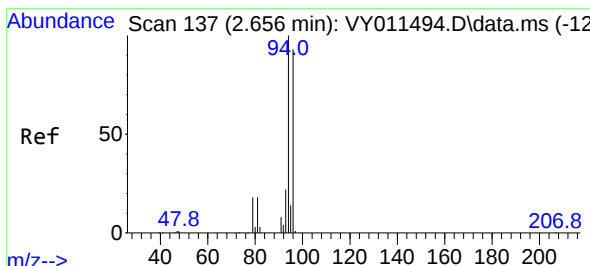
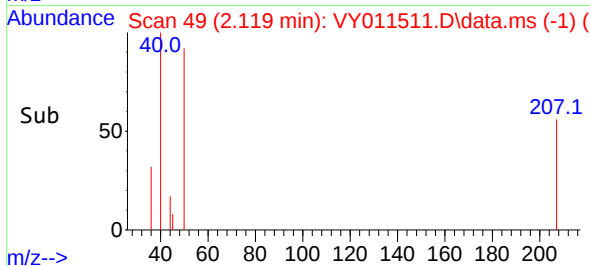
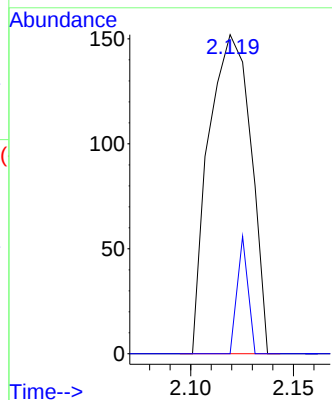
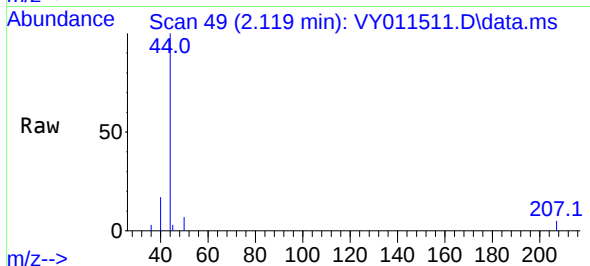




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.119 min Scan# 49  
Delta R.T. 0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

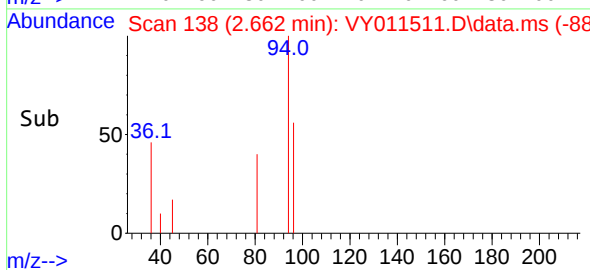
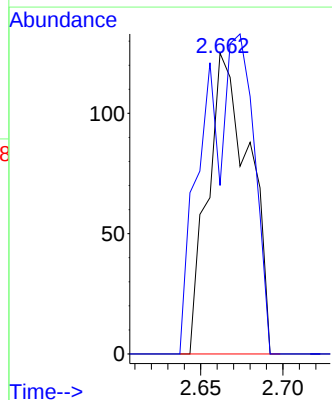
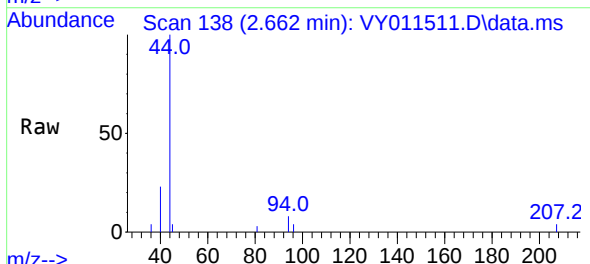
Instrument :  
MSVOA\_Y  
ClientSampleId :

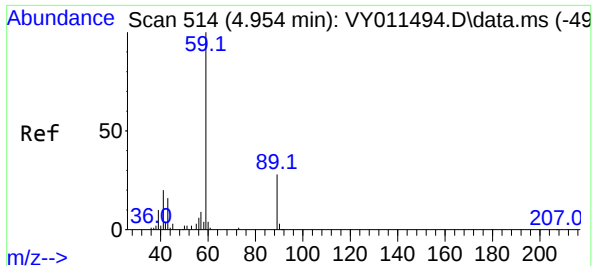
Tgt Ion: 50 Resp: 217  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.6 37.0#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 138  
Delta R.T. 0.006 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Tgt Ion: 94 Resp: 219  
Ion Ratio Lower Upper  
94 100  
96 56.0 73.5 110.3#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.942 min Scan# 51

Delta R.T. -0.012 min

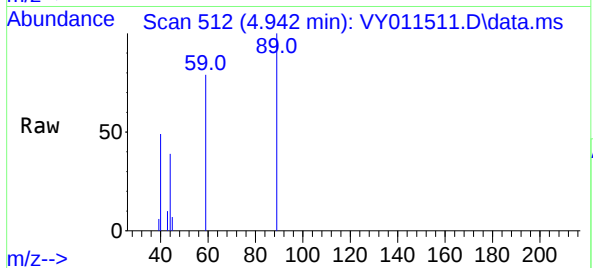
Lab File: VY011511.D

Acq: 18 Nov 2022 18:58

Instrument :

MSVOA\_Y

ClientSampleId :

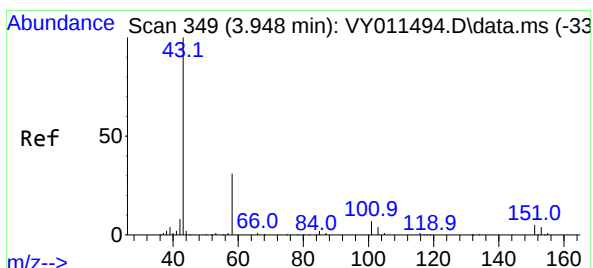
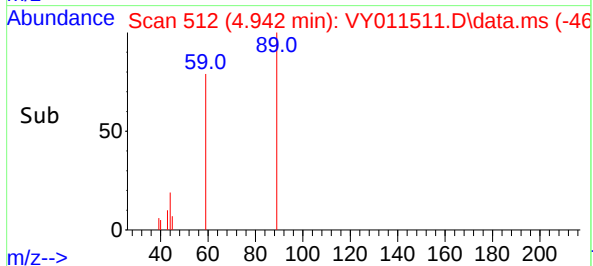
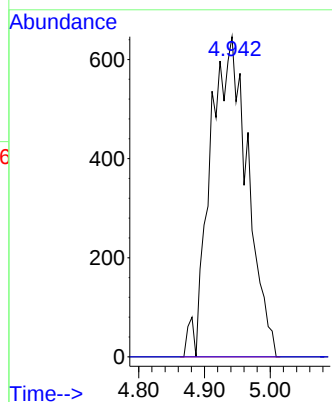


Tgt Ion: 59 Resp: 2556

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#16

Acetone

Concen: 18.003 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.006 min

Lab File: VY011511.D

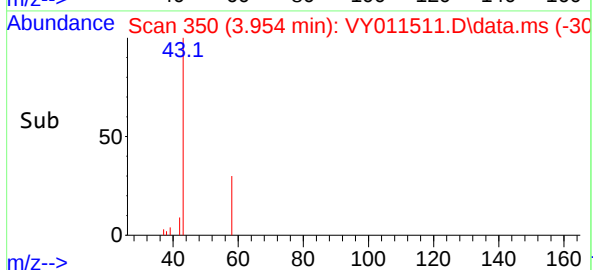
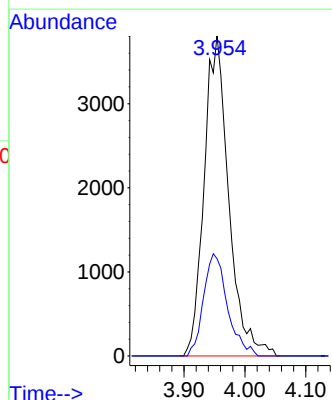
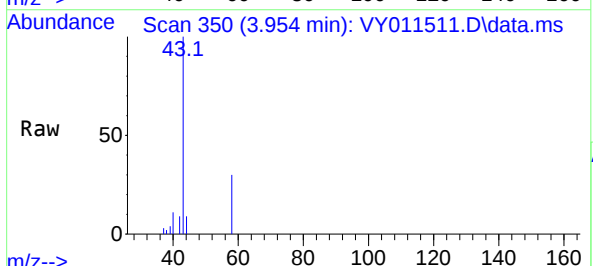
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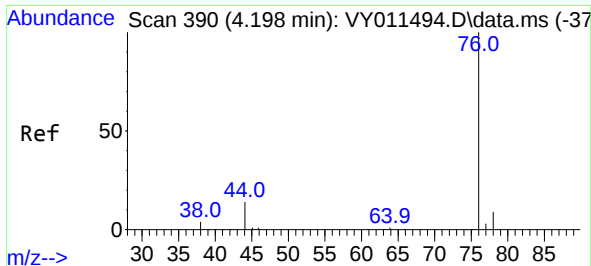
Tgt Ion: 43 Resp: 10670

Ion Ratio Lower Upper

43 100

58 30.4 22.0 33.0

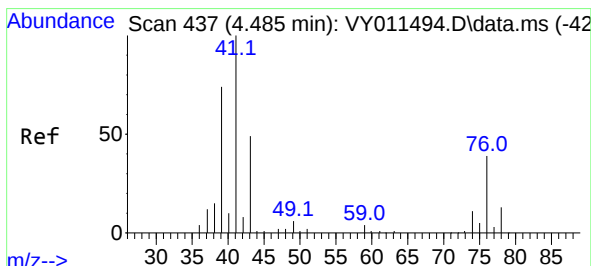
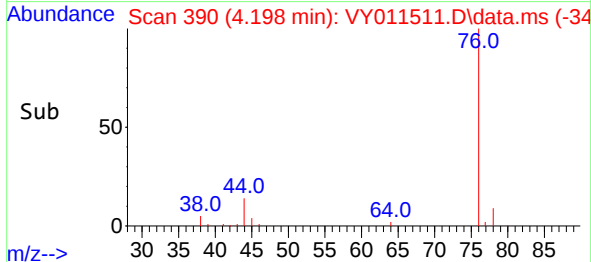
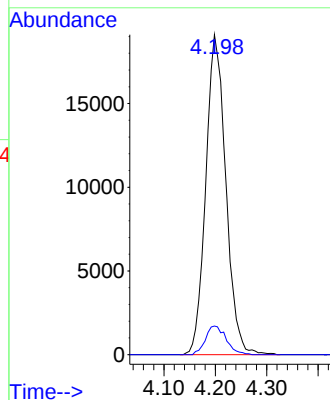
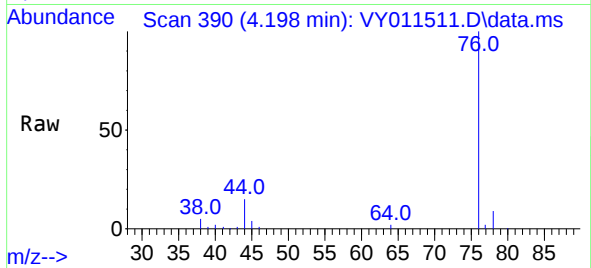




#17  
Carbon Disulfide  
Concen: 11.833 ug/l  
RT: 4.198 min Scan# 390  
Delta R.T. 0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

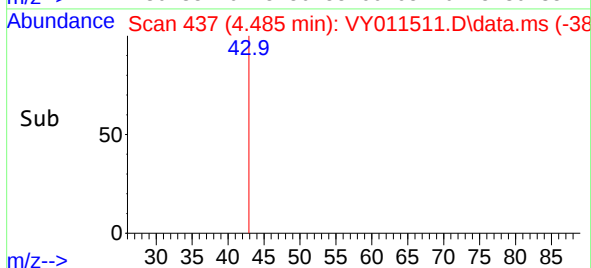
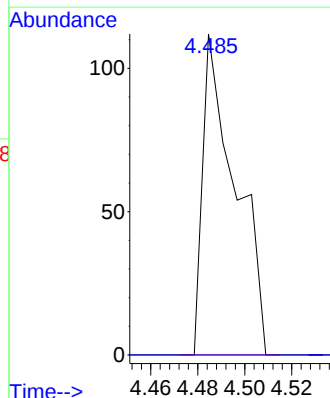
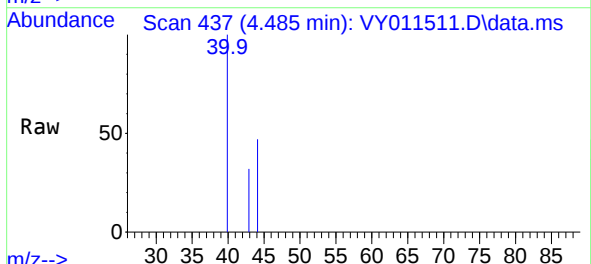
Instrument :  
MSVOA\_Y  
ClientSampleId :

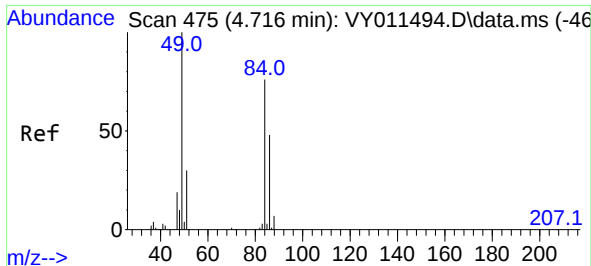
Tgt Ion: 76 Resp: 51791  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.4 11.0



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.485 min Scan# 437  
Delta R.T. -0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

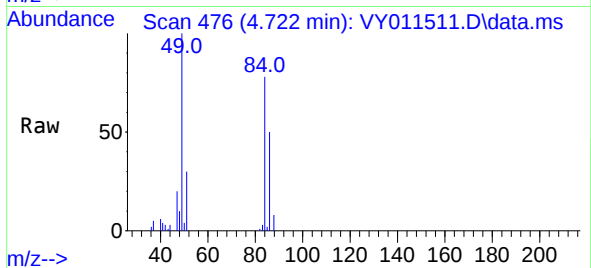
Tgt Ion: 43 Resp: 108  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



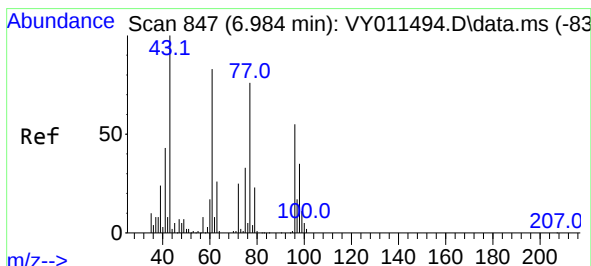
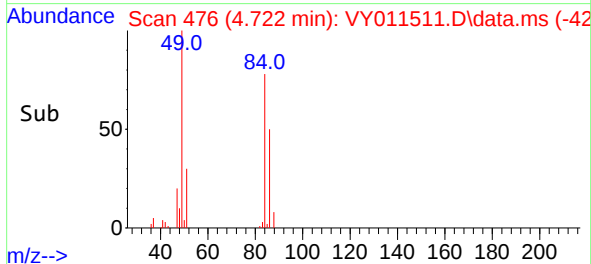
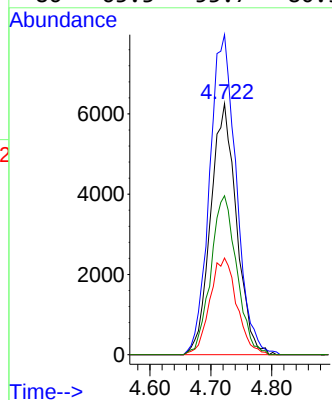


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.722 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Instrument :  
MSVOA\_Y  
ClientSampleId :

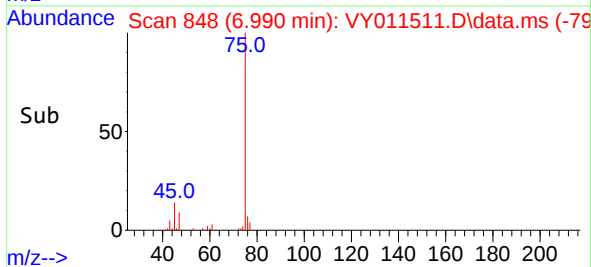
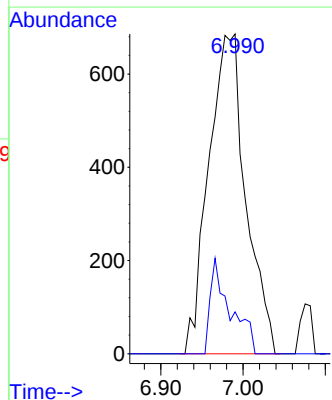
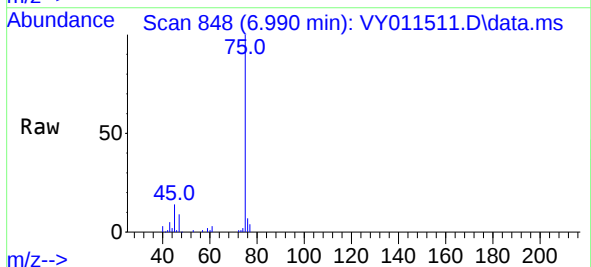


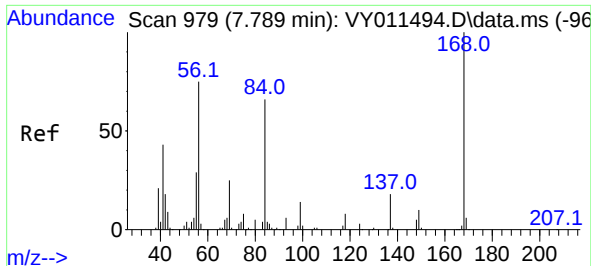
Tgt Ion: 84 Resp: 18396  
Ion Ratio Lower Upper  
84 100  
49 127.5 114.4 171.6  
51 38.5 35.3 52.9  
86 63.3 53.7 80.5



#25  
2-Butanone  
Concen: 2.768 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

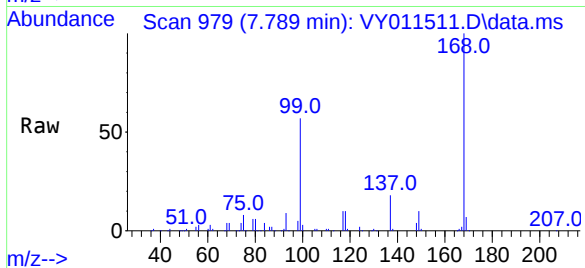
Tgt Ion: 43 Resp: 2156  
Ion Ratio Lower Upper  
43 100  
72 13.1 17.7 26.5#



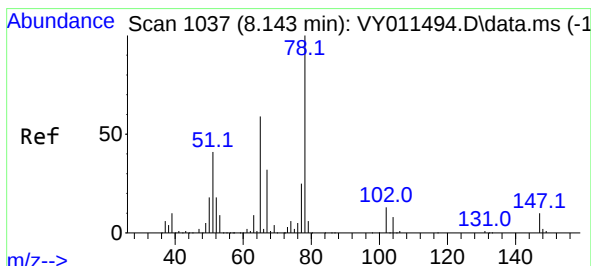
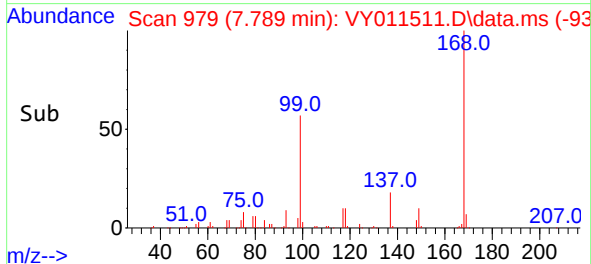
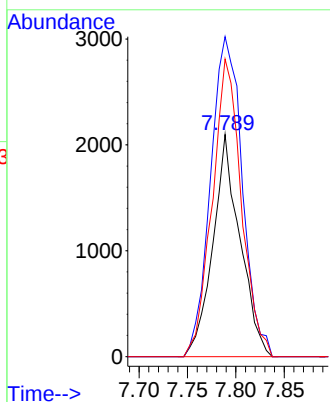


#31  
Cyclohexane  
Concen: 1.350 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Instrument :  
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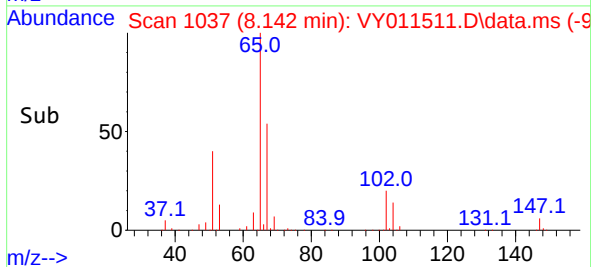
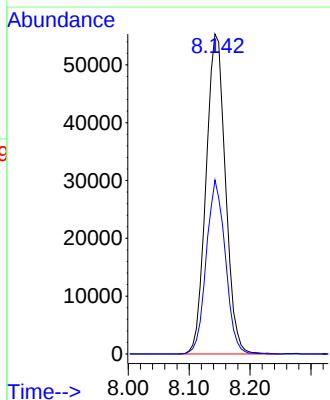
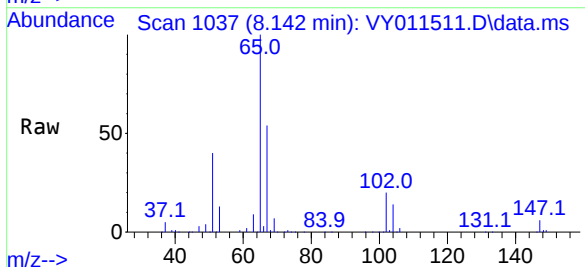


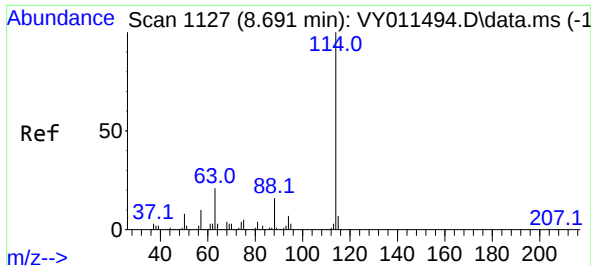
Tgt Ion: 56 Resp: 4084  
Ion Ratio Lower Upper  
56 100  
69 144.0 26.7 40.1#  
84 134.0 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 67.125 ug/l  
RT: 8.142 min Scan# 1037  
Delta R.T. -0.001 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

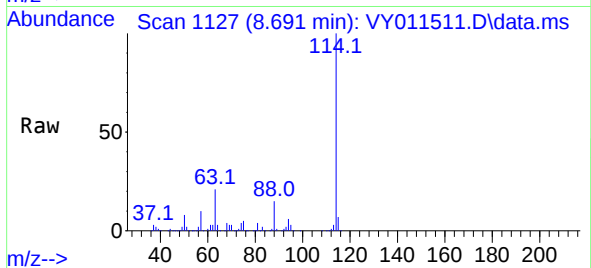
Tgt Ion: 65 Resp: 122478  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 99.4



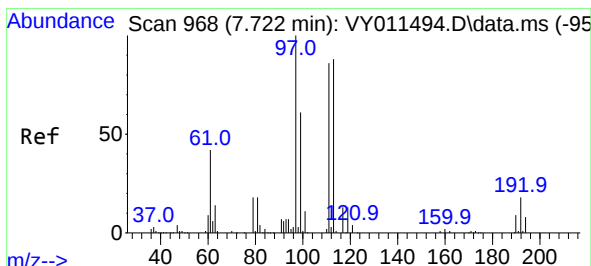
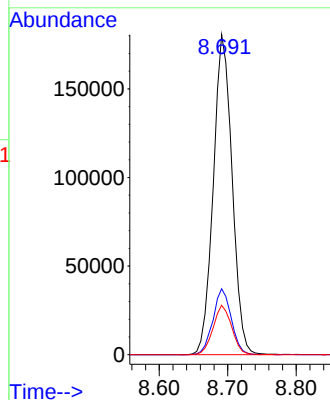
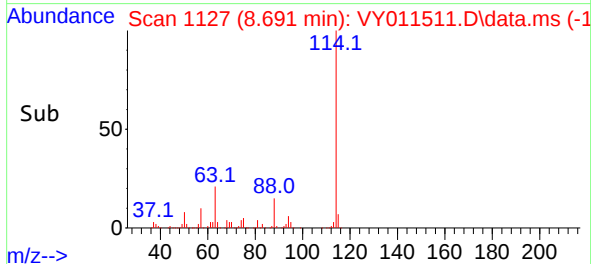


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Instrument :  
MSVOA\_Y  
ClientSampleId :

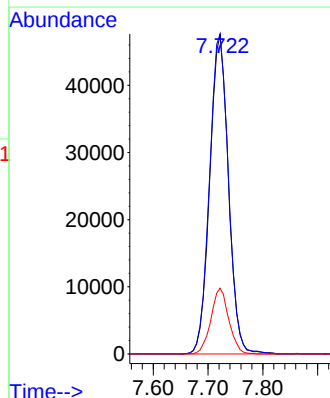
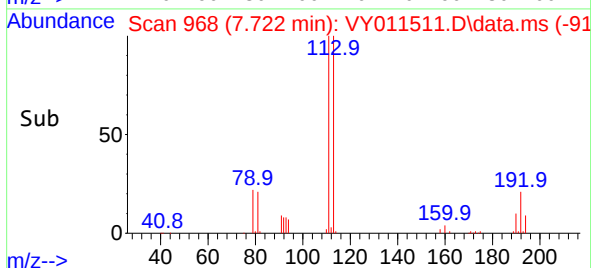
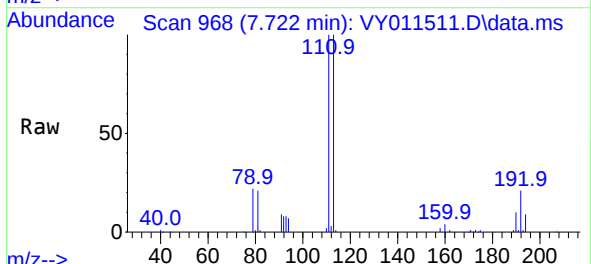


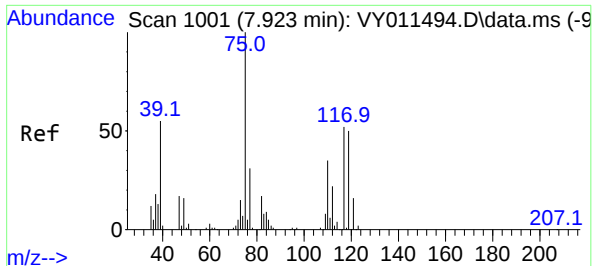
Tgt Ion:114 Resp: 344073  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 43.2  
88 15.5 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 53.037 ug/l  
RT: 7.722 min Scan# 968  
Delta R.T. -0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Tgt Ion:113 Resp: 112337  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.6 124.0  
192 19.7 17.6 26.4





#36

1,1-Dichloropropene

Concen: 4.493 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

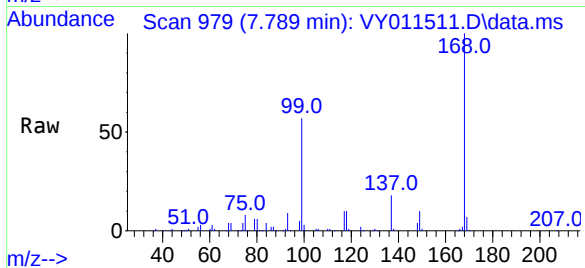
Lab File: VY011511.D

Acq: 18 Nov 2022 18:58

Instrument :

MSVOA\_Y

ClientSampleId :



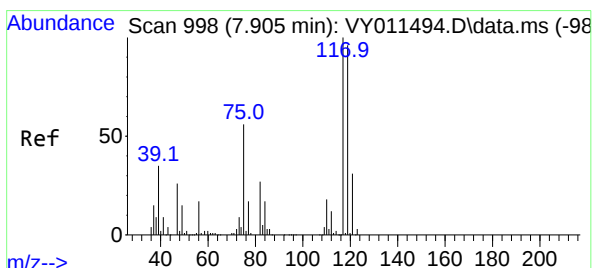
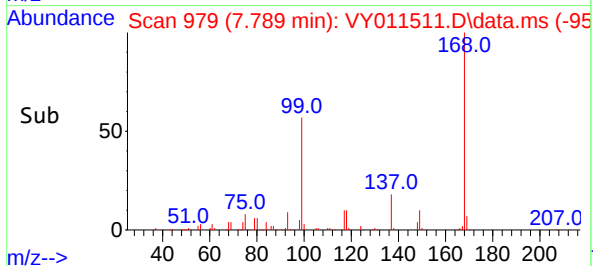
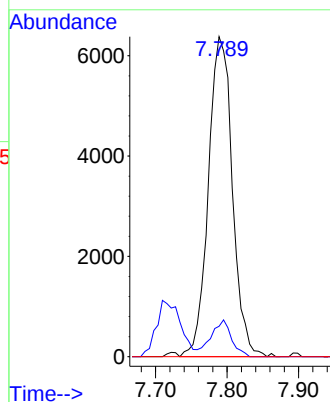
Tgt Ion: 75 Resp: 14876

Ion Ratio Lower Upper

75 100

110 9.8 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.932 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY011511.D

Acq: 18 Nov 2022 18:58

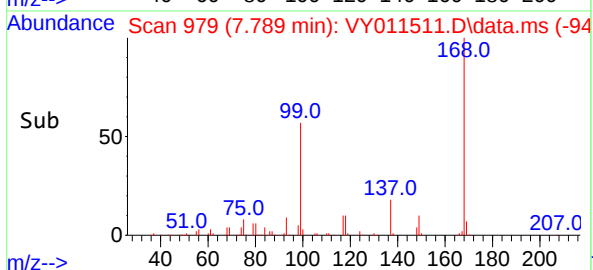
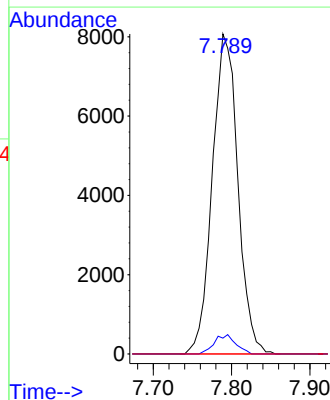
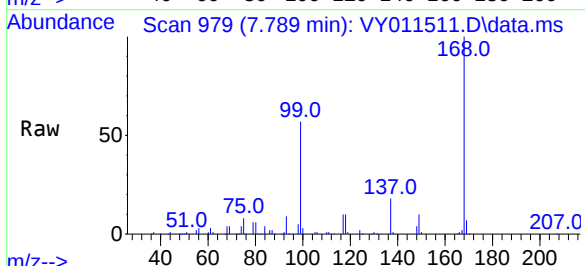
Tgt Ion: 117 Resp: 18268

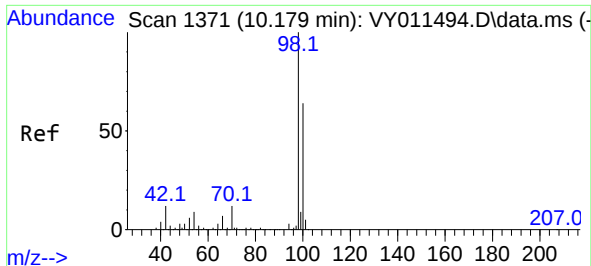
Ion Ratio Lower Upper

117 100

119 5.0 77.9 116.9#

121 0.0 24.8 37.2#

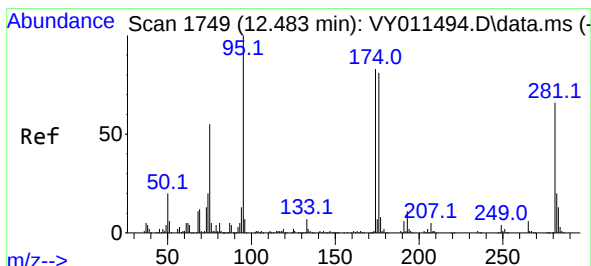
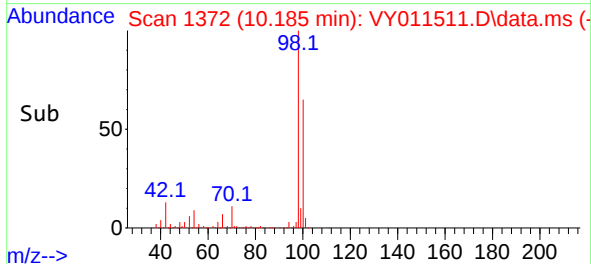
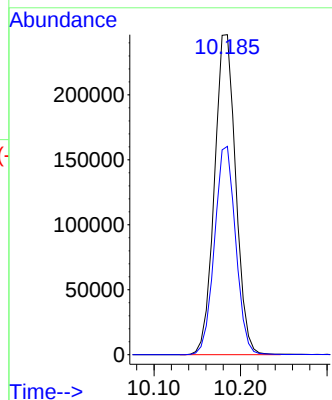
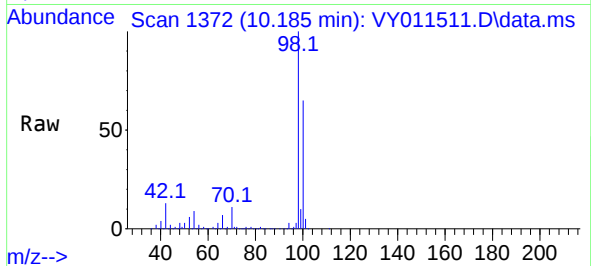




#50  
Toluene-d8  
Concen: 54.626 ug/l  
RT: 10.185 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

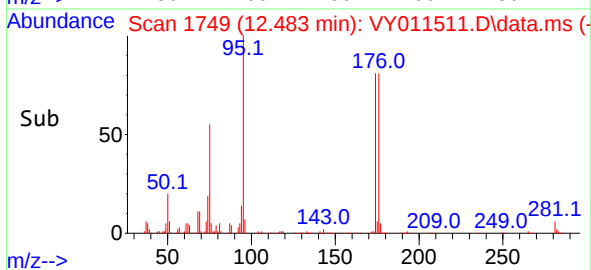
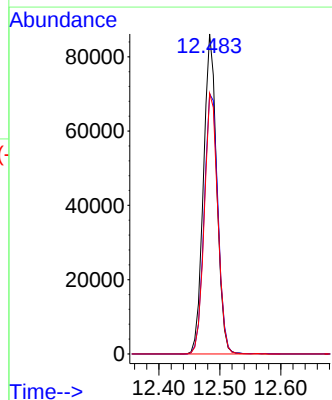
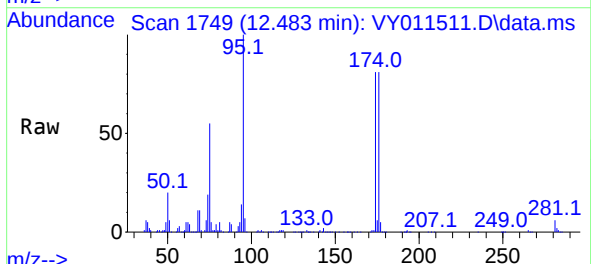
Instrument :  
MSVOA\_Y  
ClientSampleId :

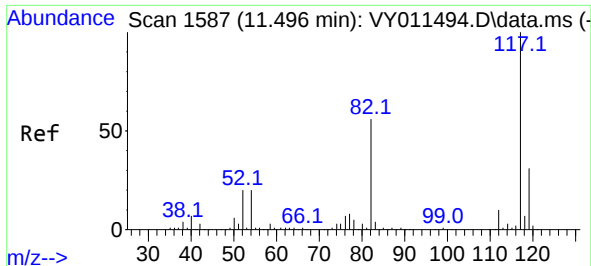
Tgt Ion: 98 Resp: 420454  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 45.924 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Tgt Ion: 95 Resp: 130691  
Ion Ratio Lower Upper  
95 100  
174 84.7 0.0 177.0  
176 82.1 0.0 175.8

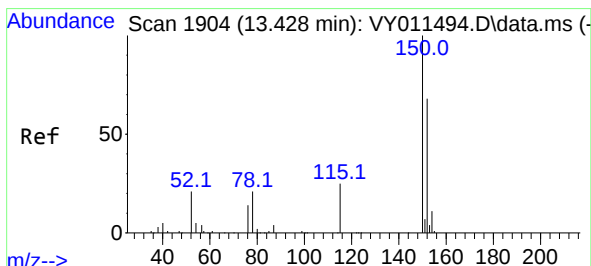
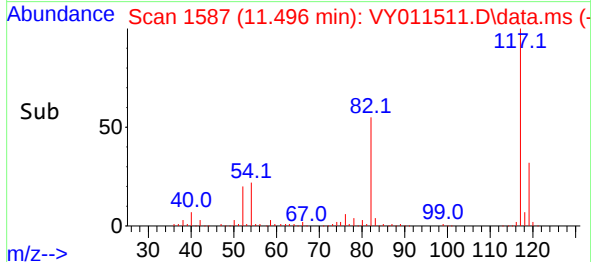
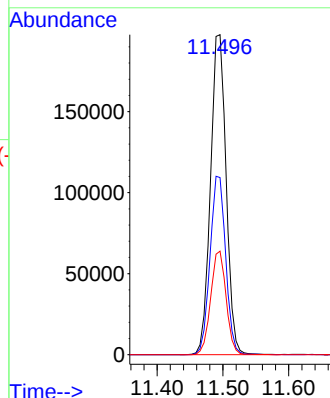
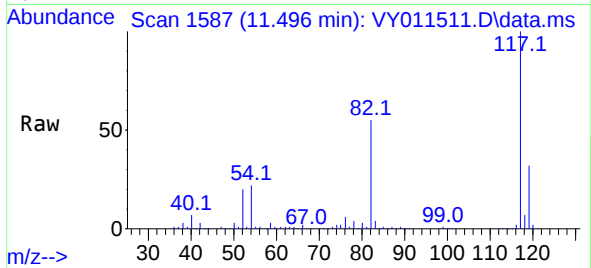




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

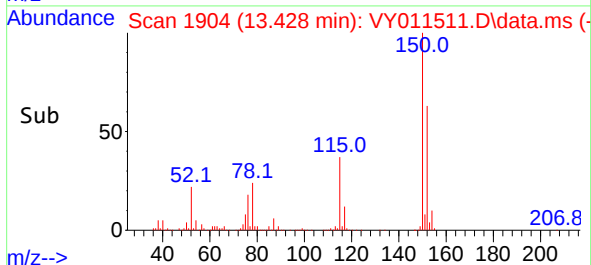
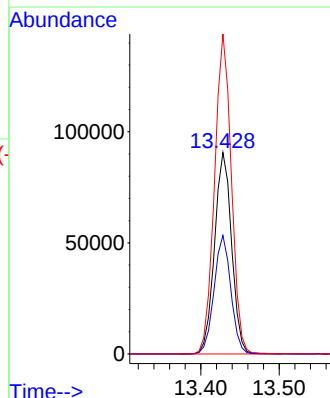
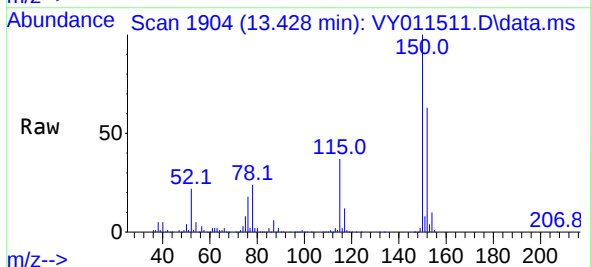
Instrument :  
MSVOA\_Y  
ClientSampleId :

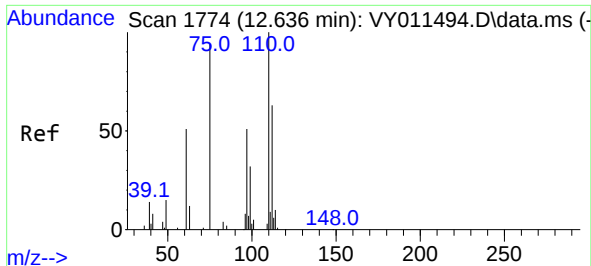
Tgt Ion:117 Resp: 327017  
Ion Ratio Lower Upper  
117 100  
82 55.3 43.0 64.4  
119 32.3 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Tgt Ion:152 Resp: 137397  
Ion Ratio Lower Upper  
152 100  
115 57.8 28.2 84.7  
150 156.7 0.0 347.6

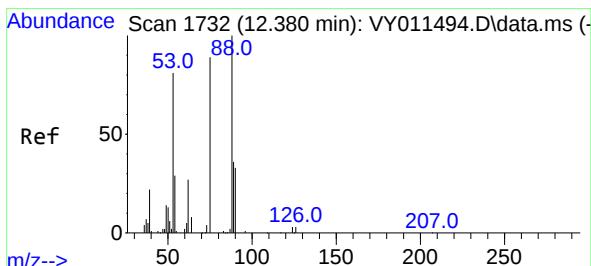
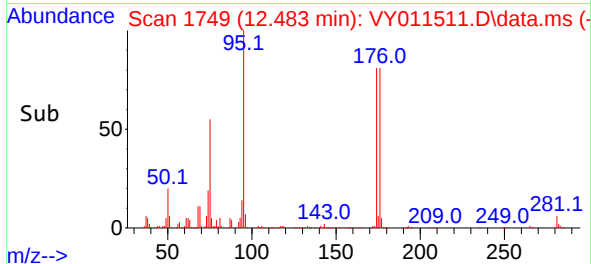
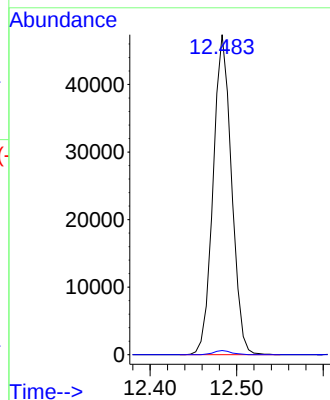
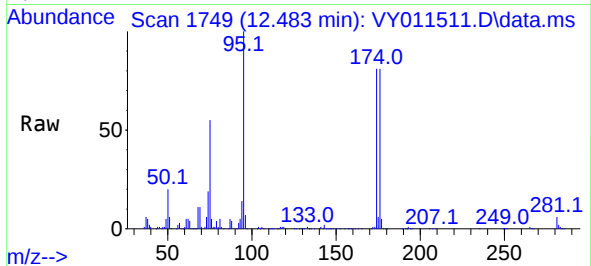




#76  
1,2,3-Trichloropropane  
Concen: 47.256 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.153 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

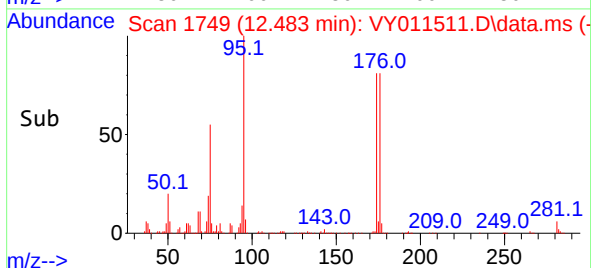
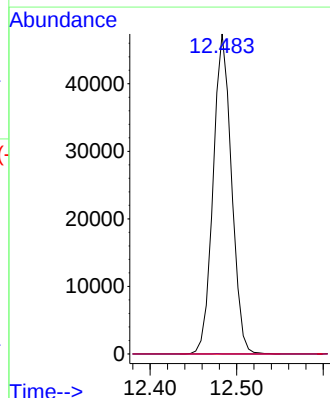
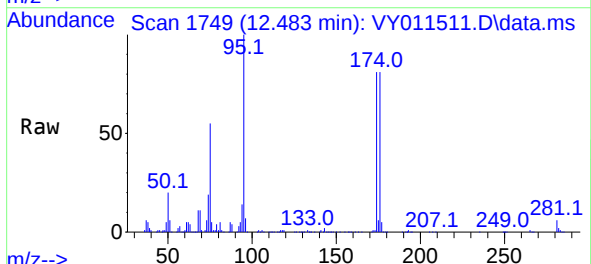
Instrument :  
MSVOA\_Y  
ClientSampleId :

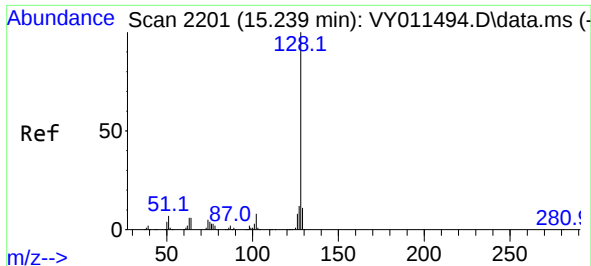
Tgt Ion: 75 Resp: 69924  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 103.507 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.103 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

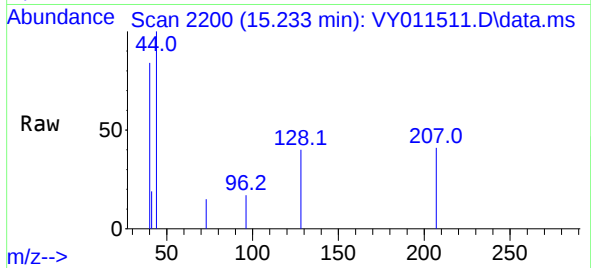
Tgt Ion: 75 Resp: 69924  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#





#95  
Naphthalene  
Concen: 4.048 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VY011511.D  
Acq: 18 Nov 2022 18:58

Instrument :  
MSVOA\_Y  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 145   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 11.0  | 16.4# |
| 129      | 0.0   | 8.4   | 12.6# |

