

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112122\  
 Data File : VY011521.D  
 Acq On : 21 Nov 2022 14:05  
 Operator : KP/MD  
 Sample : N5678-15  
 Misc : 7.44g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 22 01:45:33 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

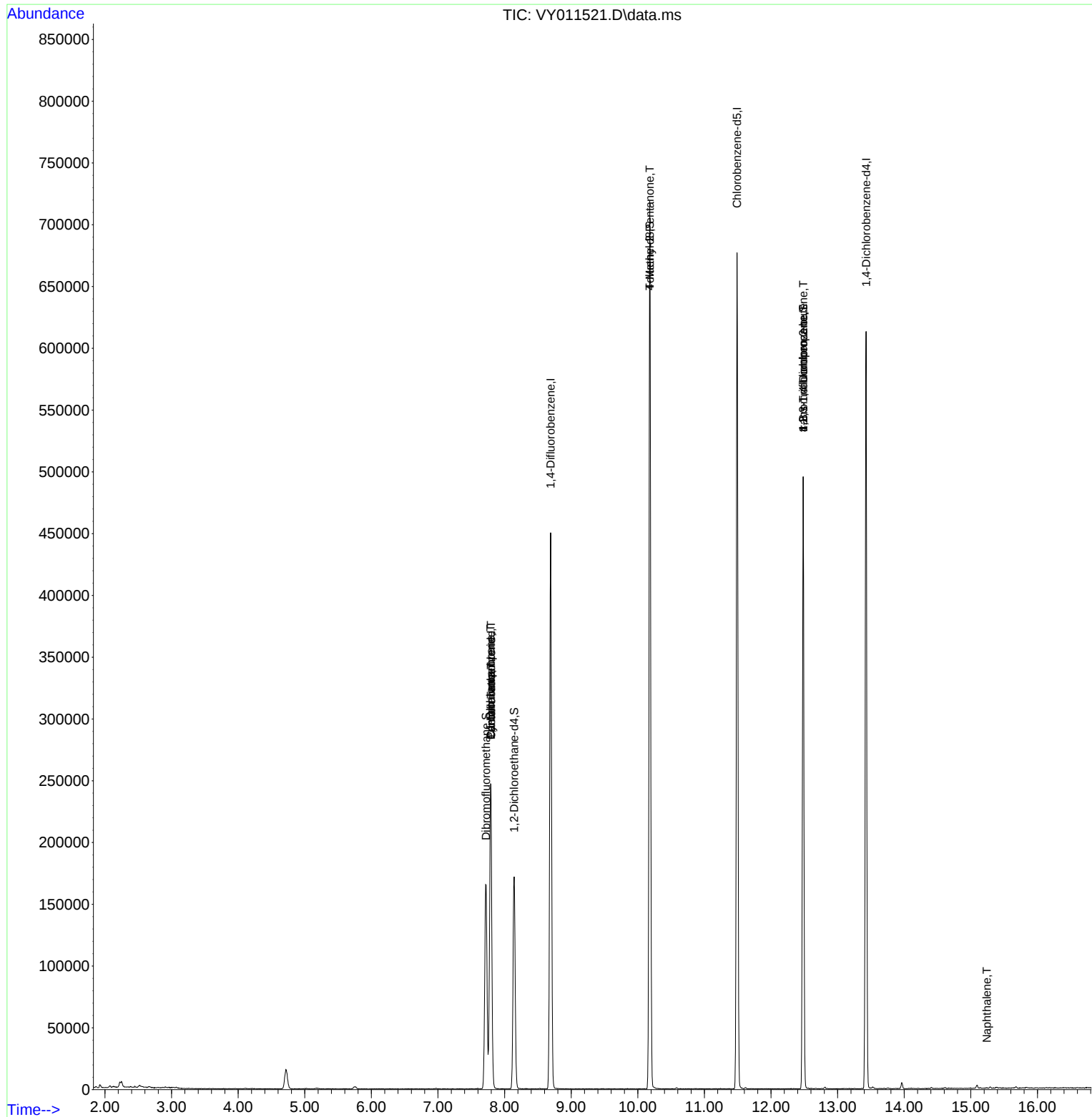
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 191071   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 369483   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 350209   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 153371   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 133768   | 68.948    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 137.900% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 118220   | 51.976    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 103.960% |          |
| 50) Toluene-d8                | 10.179 | 98    | 452718   | 54.773    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 109.540% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 143751   | 47.040    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 94.080%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.113  | 50    | 223      | Below Cal | #          | 44       |
| 5) Bromomethane               | 2.656  | 94    | 363      | Below Cal | #          | 67       |
| 18) Methyl Acetate            | 4.485  | 43    | 148      | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.716  | 84    | 11399    | Below Cal |            | 90       |
| 31) Cyclohexane               | 7.795  | 56    | 4355     | 1.354     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 15028    | 4.227     | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 19506    | 4.904     | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.179 | 43    | 2126     | 1.047     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 76597    | 46.375    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 76597    | 101.576   | ug/l #     | 7        |
| 95) Naphthalene               | 15.239 | 128   | 567      | 4.116     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

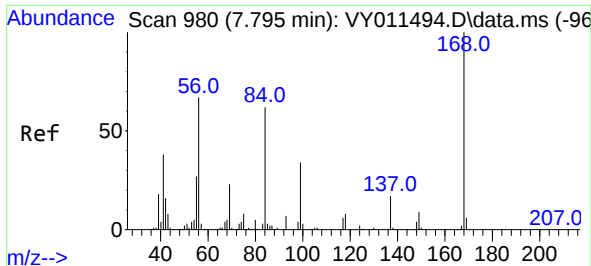
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Nov 22 01:45:33 2022  
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Quant Title : SW846 8260  
QLast Update : Sat Nov 19 22:37:14 2022  
Response via : Initial Calibration

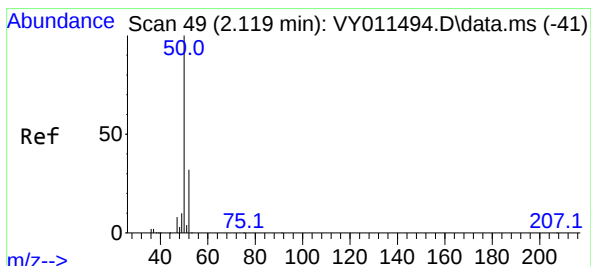
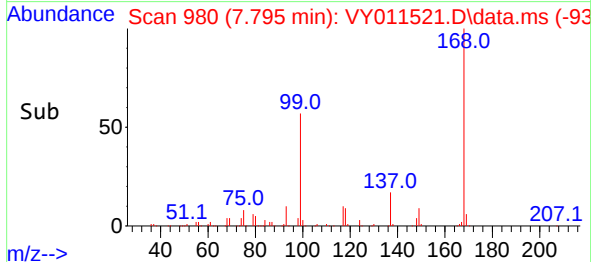
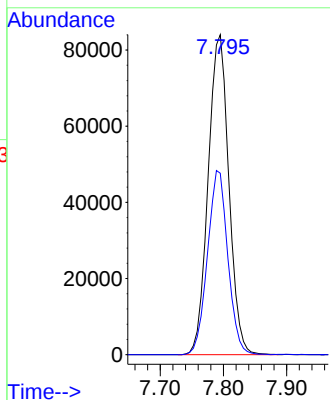
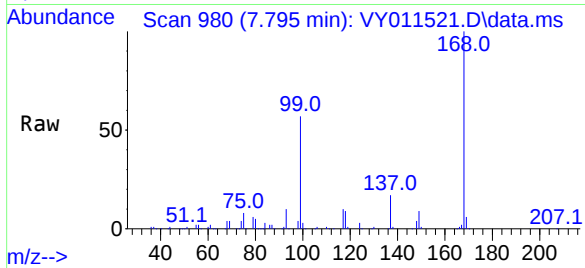




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

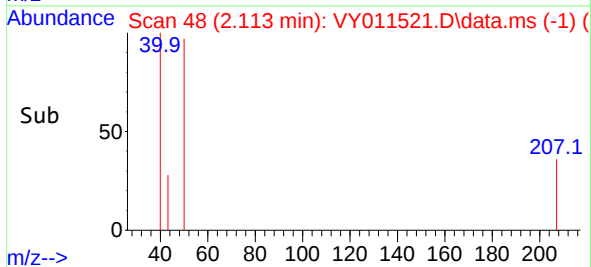
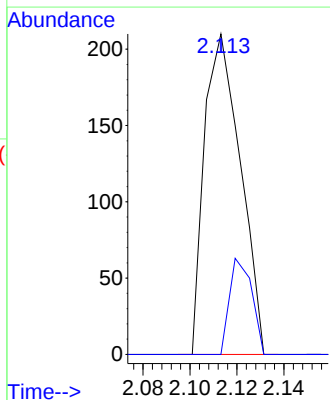
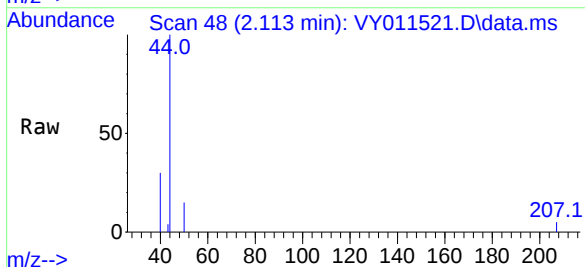
Instrument :  
MSVOA\_Y  
ClientSampleId :

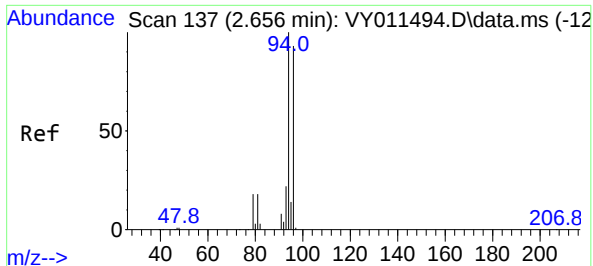
Tgt Ion:168 Resp: 191071  
Ion Ratio Lower Upper  
168 100  
99 56.7 46.9 70.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Tgt Ion: 50 Resp: 223  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.6 37.0#

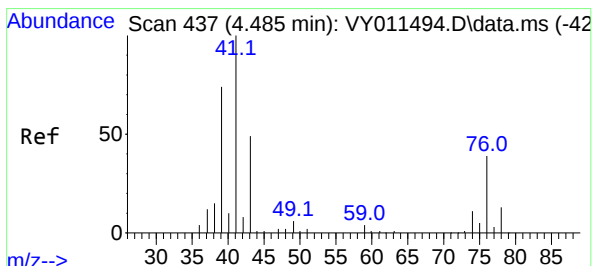
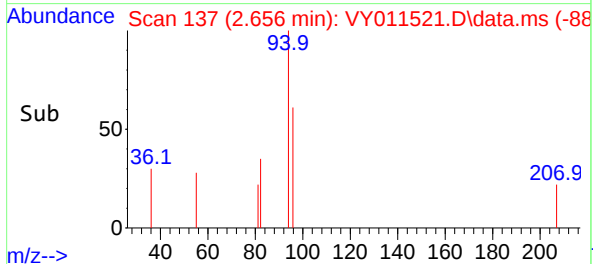
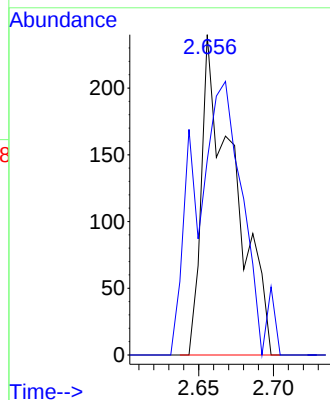
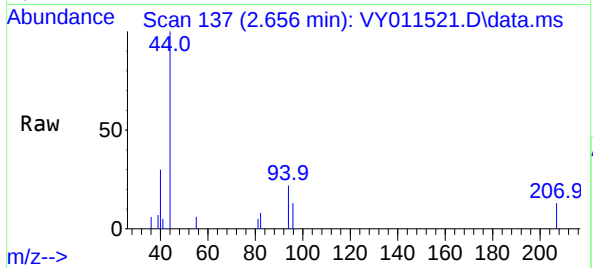




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.656 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

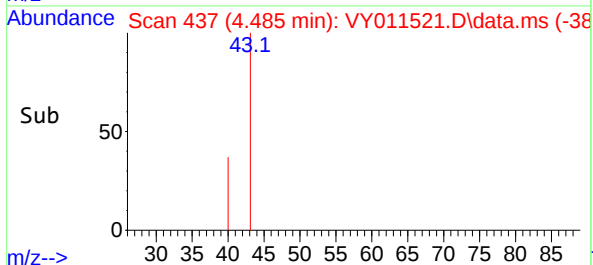
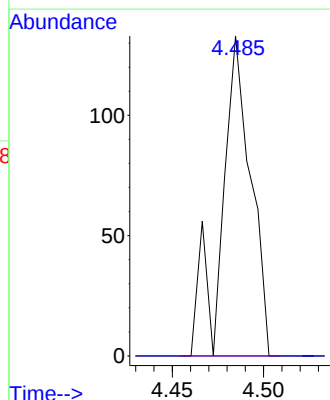
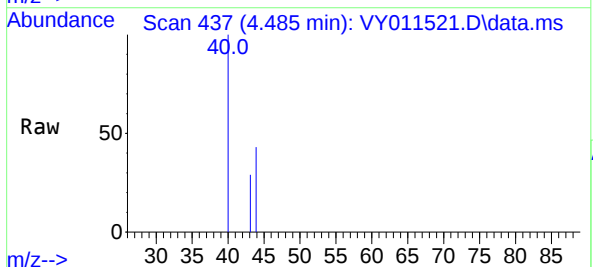
Instrument :  
MSVOA\_Y  
ClientSampleId :

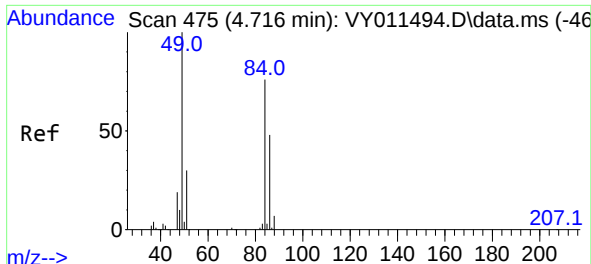
Tgt Ion: 94 Resp: 363  
Ion Ratio Lower Upper  
94 100  
96 60.8 73.5 110.3#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.485 min Scan# 437  
Delta R.T. -0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

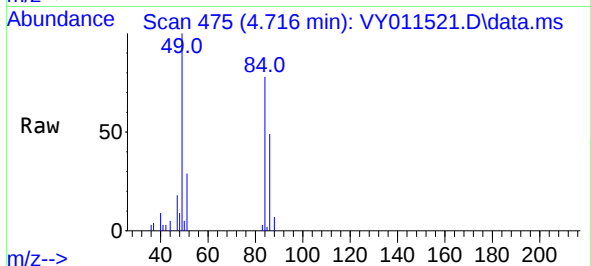
Tgt Ion: 43 Resp: 148  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#





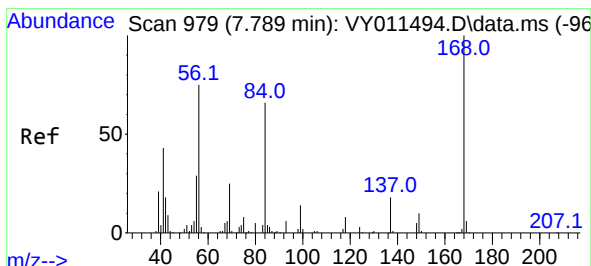
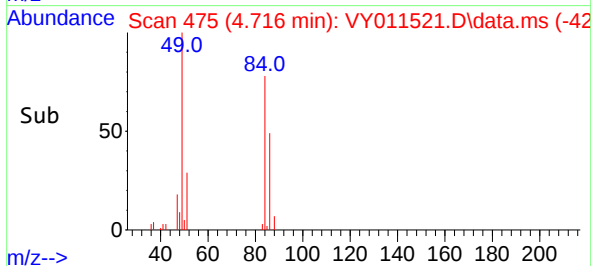
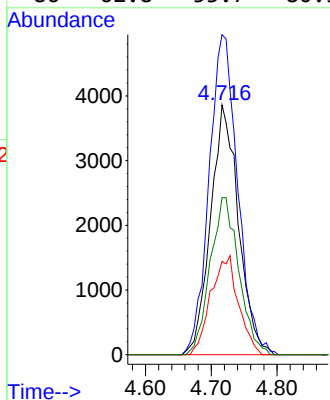
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Instrument :  
MSVOA\_Y  
ClientSampleId :



Tgt Ion: 84 Resp: 11399

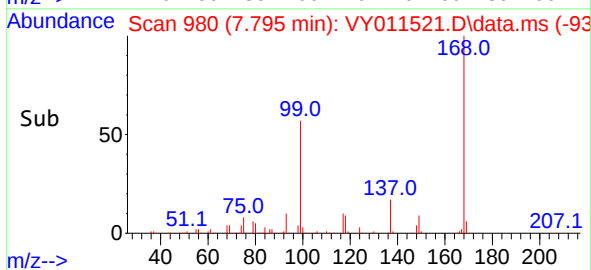
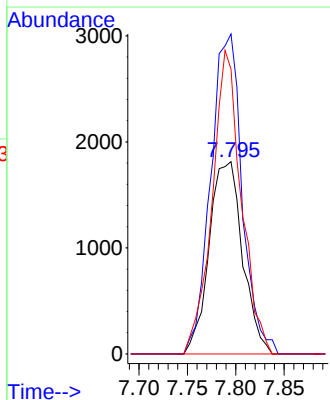
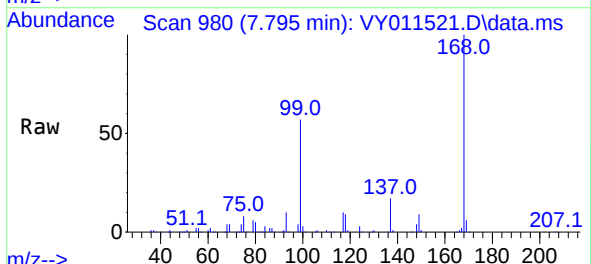
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 128.1 | 114.4 | 171.6 |
| 51  | 37.4  | 35.3  | 52.9  |
| 86  | 62.8  | 53.7  | 80.5  |

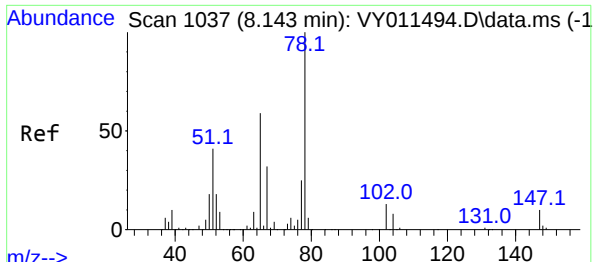


#31  
Cyclohexane  
Concen: 1.354 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. 0.006 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Tgt Ion: 56 Resp: 4355

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 166.4 | 26.7  | 40.1#  |
| 84  | 148.1 | 67.2  | 100.8# |





#33

1,2-Dichloroethane-d4

Concen: 68.948 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY011521.D

Acq: 21 Nov 2022 14:05

Instrument :

MSVOA\_Y

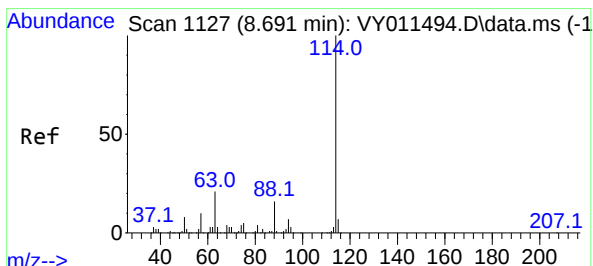
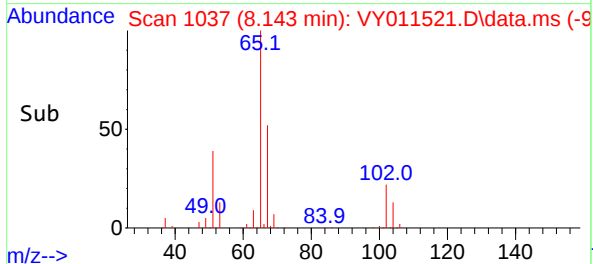
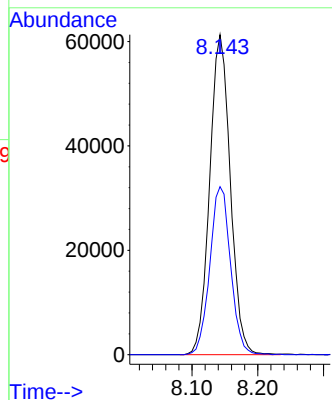
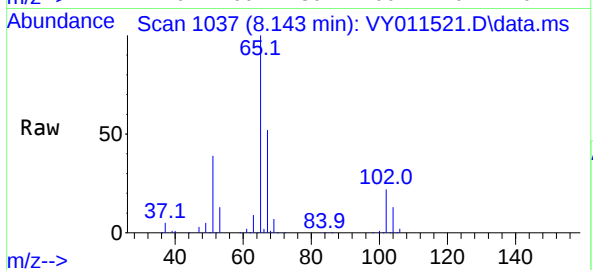
ClientSampleId :

Tgt Ion: 65 Resp: 133768

Ion Ratio Lower Upper

65 100

67 52.8 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: VY011521.D

Acq: 21 Nov 2022 14:05

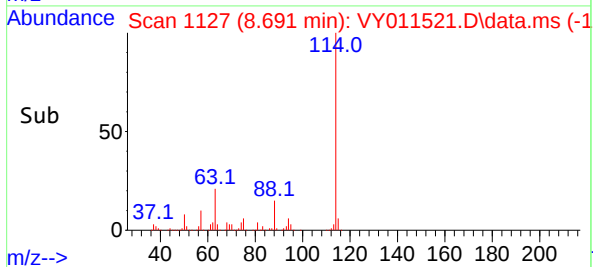
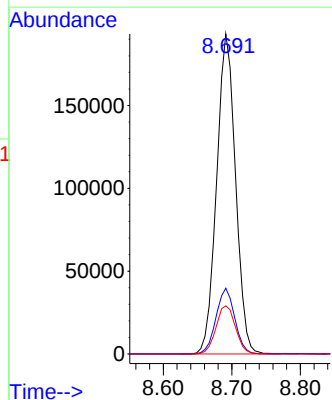
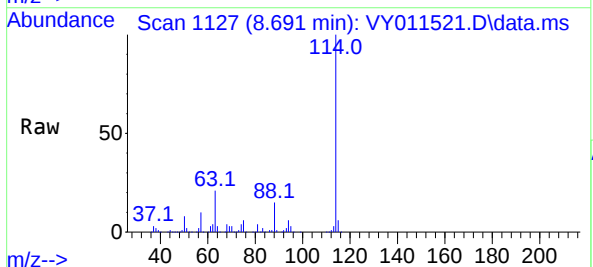
Tgt Ion:114 Resp: 369483

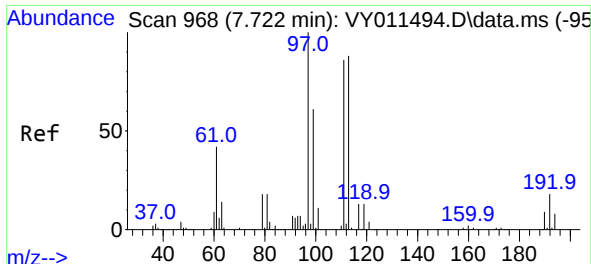
Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.2

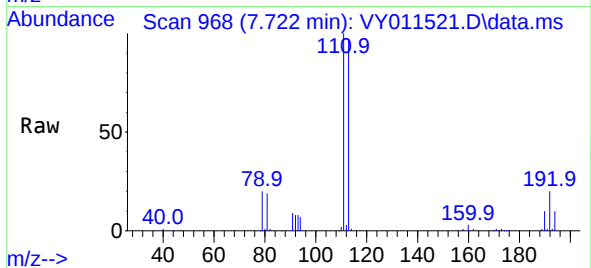
88 15.1 0.0 31.8



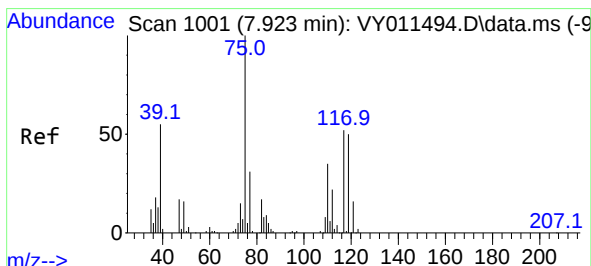
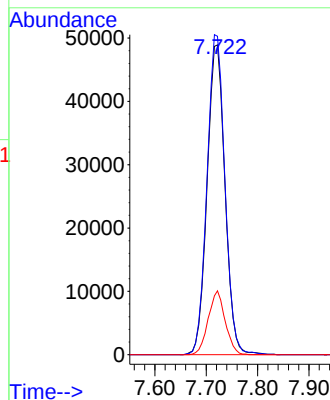
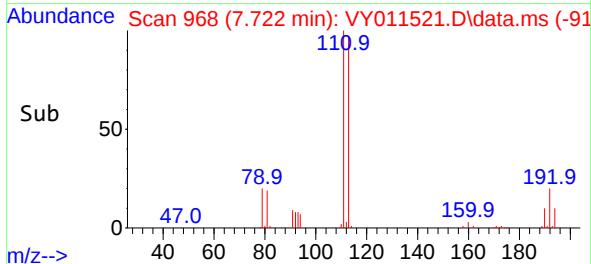


#35  
Dibromofluoromethane  
Concen: 51.976 ug/l  
RT: 7.722 min Scan# 901  
Delta R.T. -0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

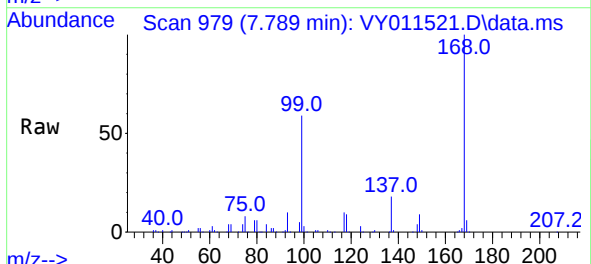
Instrument :  
MSVOA\_Y  
ClientSampleId :



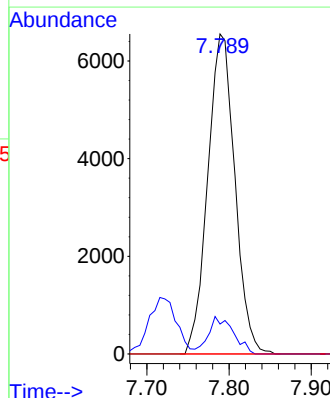
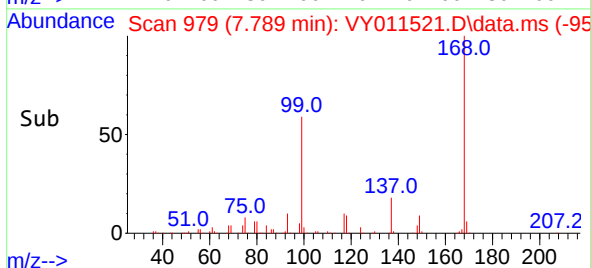
Tgt Ion:113 Resp: 118220  
Ion Ratio Lower Upper  
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192 19.6 17.6 26.4

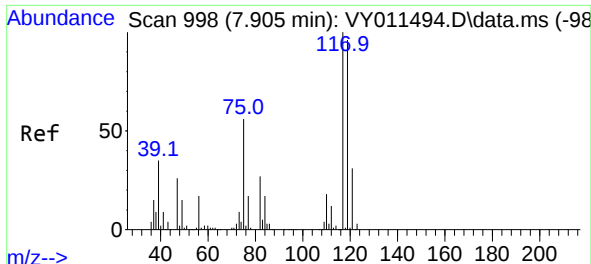


#36  
1,1-Dichloropropene  
Concen: 4.227 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.134 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05



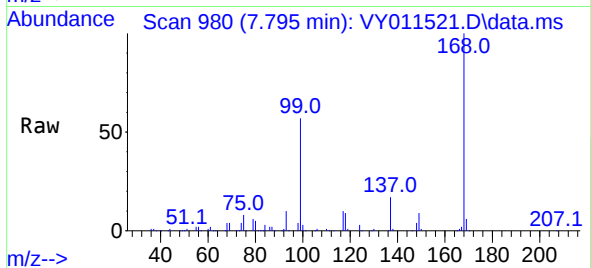
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Ion Ratio Lower Upper  
75 100  
110 10.7 17.1 51.2#  
77 0.0 24.4 36.6#



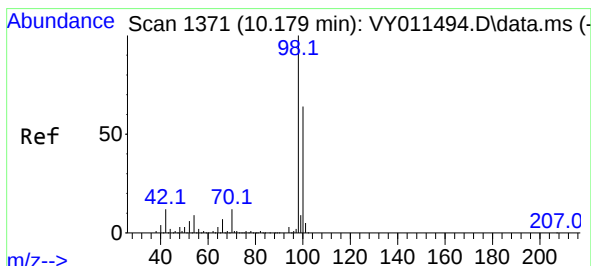
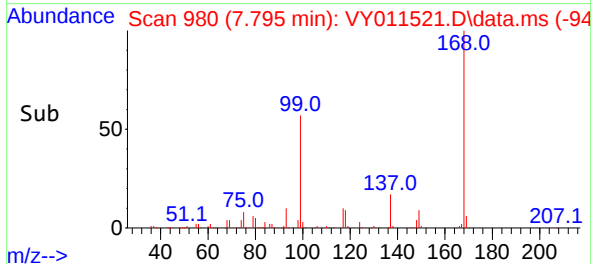
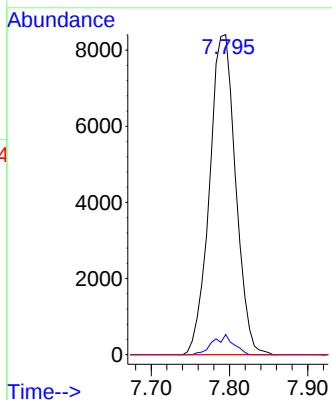


#38  
Carbon Tetrachloride  
Concen: 4.904 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Instrument :  
MSVOA\_Y  
ClientSampleId :

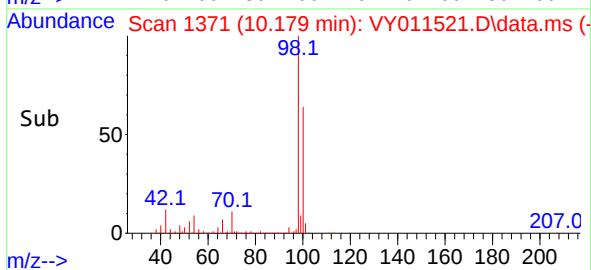
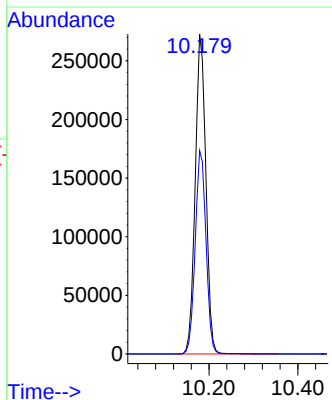
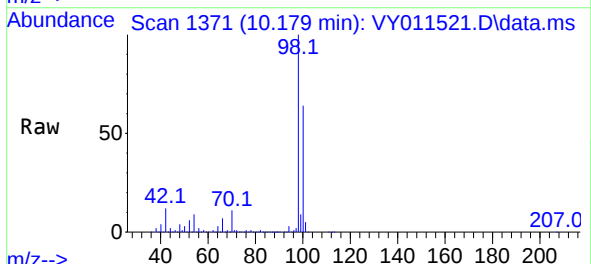


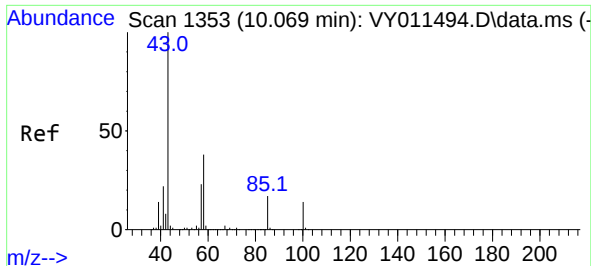
Tgt Ion:117 Resp: 19506  
Ion Ratio Lower Upper  
117 100  
119 6.3 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 54.773 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Tgt Ion: 98 Resp: 452718  
Ion Ratio Lower Upper  
98 100  
100 64.5 50.2 75.2

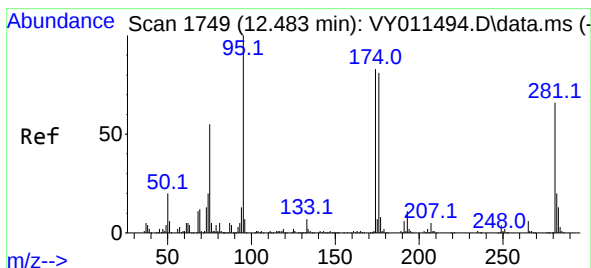
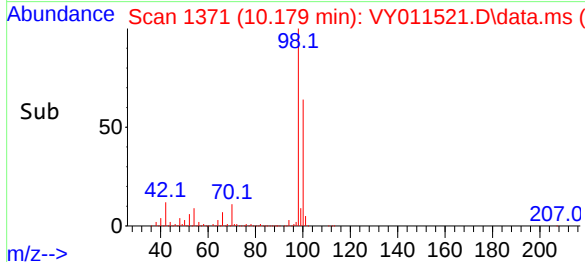
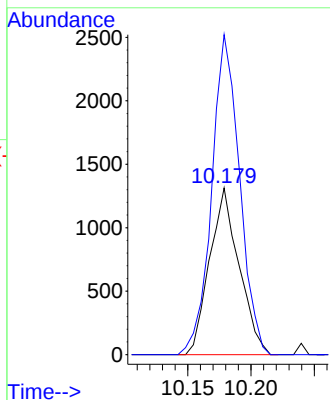
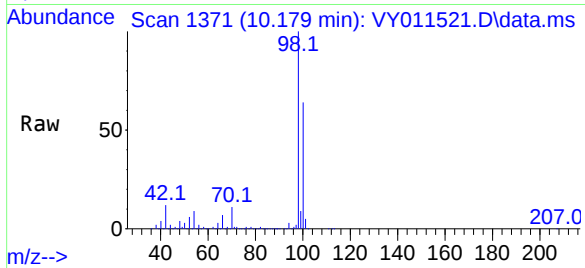




#51  
4-Methyl-2-Pentanone  
Concen: 1.047 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.110 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

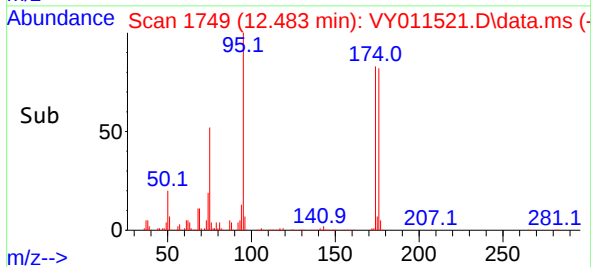
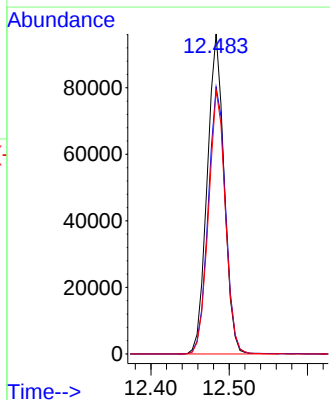
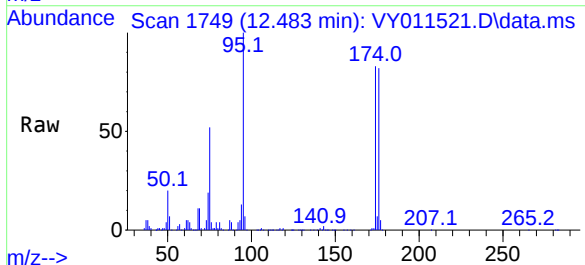
Instrument :  
MSVOA\_Y  
ClientSampleId :

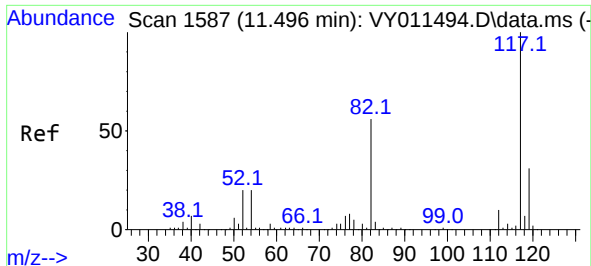
Tgt Ion: 43 Resp: 2126  
Ion Ratio Lower Upper  
43 100  
58 181.7 28.1 42.1#



#62  
4-Bromofluorobenzene  
Concen: 47.040 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Tgt Ion: 95 Resp: 143751  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 177.0  
176 82.2 0.0 175.8

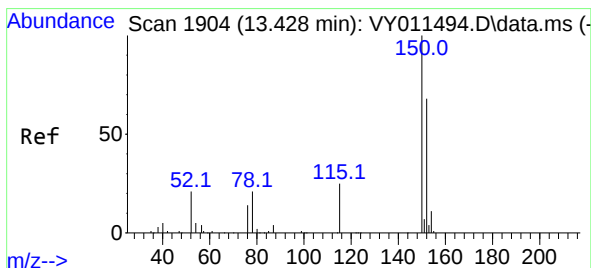
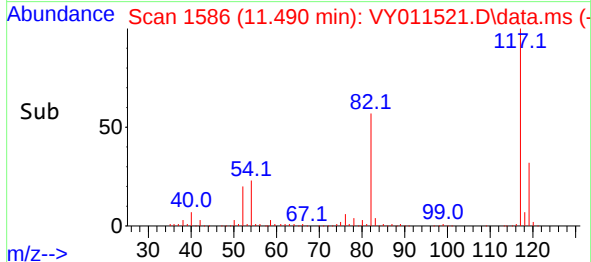
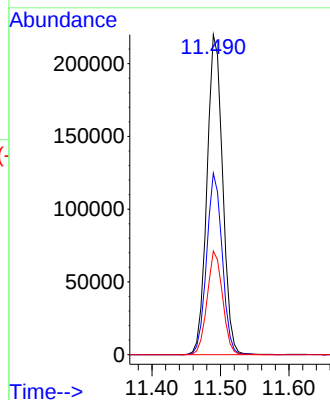
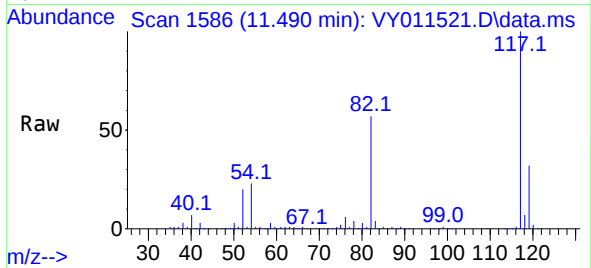




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

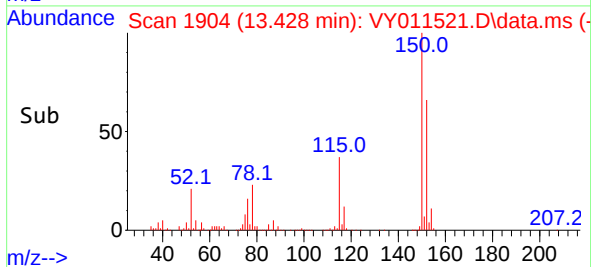
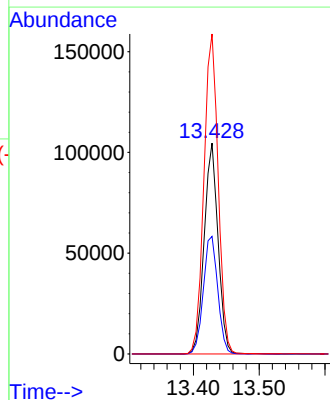
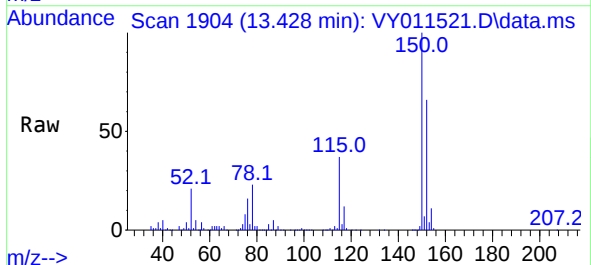
Instrument :  
MSVOA\_Y  
ClientSampleId :

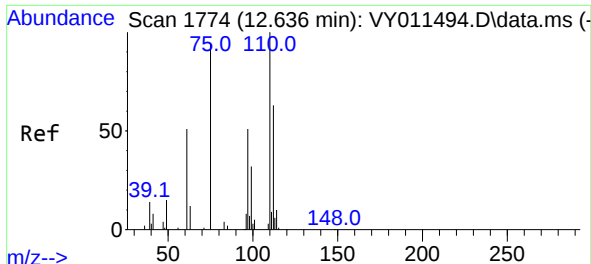
Tgt Ion:117 Resp: 350209  
Ion Ratio Lower Upper  
117 100  
82 56.7 43.0 64.4  
119 32.4 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Tgt Ion:152 Resp: 153371  
Ion Ratio Lower Upper  
152 100  
115 58.0 28.2 84.7  
150 156.3 0.0 347.6

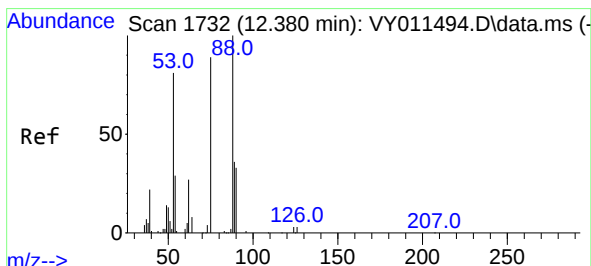
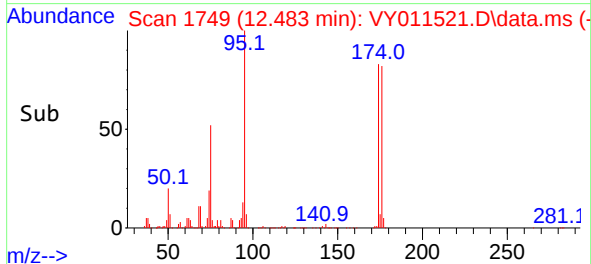
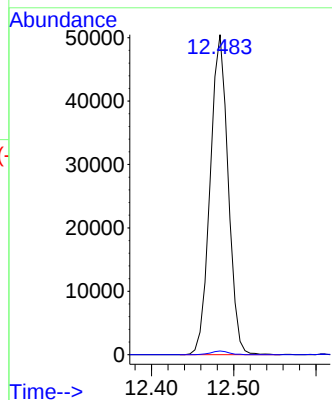
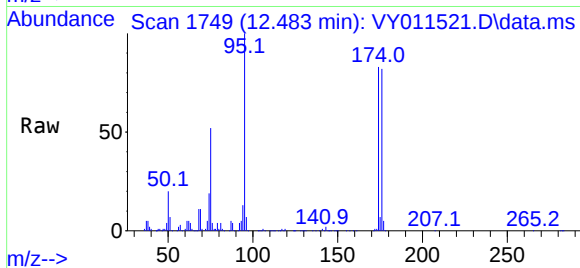




#76  
1,2,3-Trichloropropane  
Concen: 46.375 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.153 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

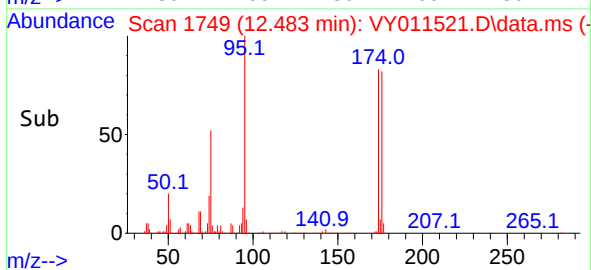
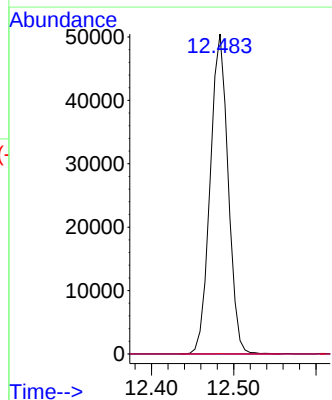
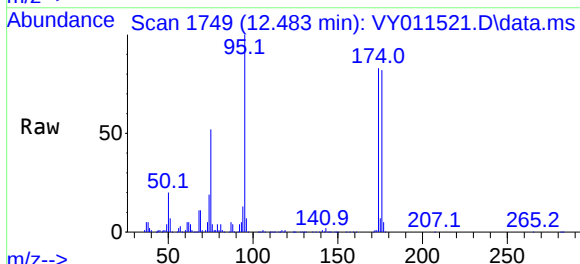
Instrument :  
MSVOA\_Y  
ClientSampleId :

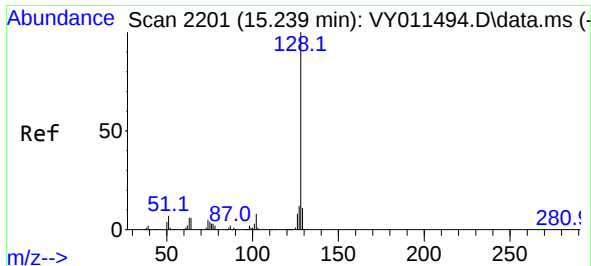
Tgt Ion: 75 Resp: 76597  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 101.576 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.103 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

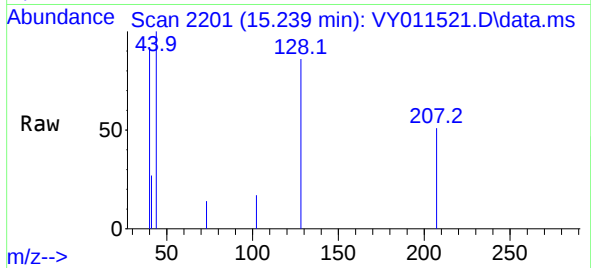
Tgt Ion: 75 Resp: 76597  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#





#95  
Naphthalene  
Concen: 4.116 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY011521.D  
Acq: 21 Nov 2022 14:05

Instrument :  
MSVOA\_Y  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 567   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 11.0  | 16.4# |
| 129      | 0.0   | 8.4   | 12.6# |

