

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120722\  
 Data File : VY011729.D  
 Acq On : 07 Dec 2022 13:30  
 Operator : KP/MD  
 Sample : N5897-07  
 Misc : 5.35g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2913

Quant Time: Dec 08 07:56:28 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

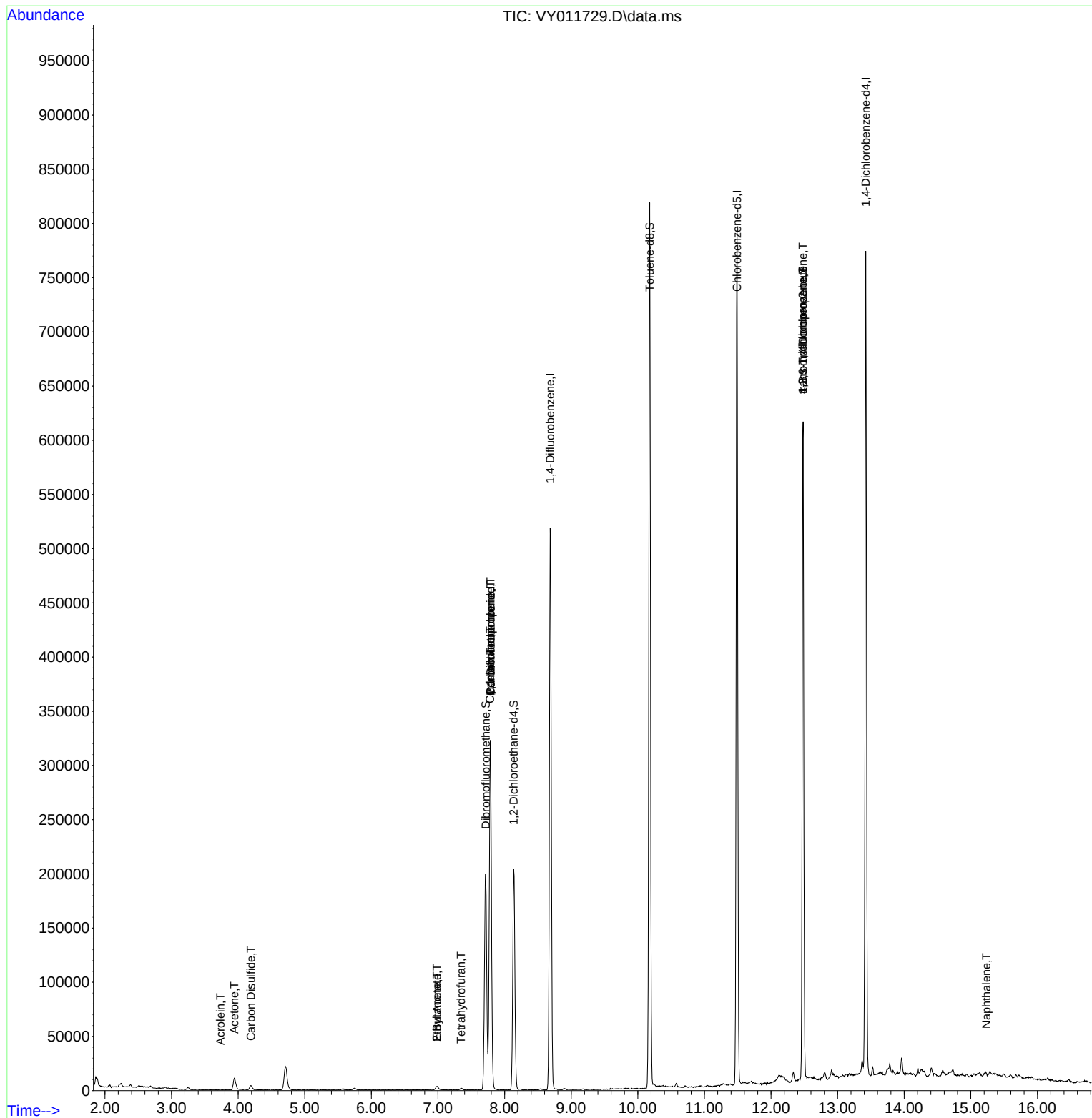
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 249776   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 444004   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 429075   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 187160   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 161133   | 63.533    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 127.060% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 141287   | 51.692    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 103.380% |          |
| 50) Toluene-d8                | 10.179 | 98    | 538353   | 54.202    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 108.400% |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 187303   | 51.004    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 102.000% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.900  | 85    | 55       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.113  | 50    | 432      | Below Cal | #          | 44       |
| 5) Bromomethane               | 2.650  | 94    | 338      | Below Cal |            | 91       |
| 11) Tert butyl alcohol        | 4.954  | 59    | 507      | Below Cal | #          | 77       |
| 13) Acrolein                  | 3.735  | 56    | 236      | 3.529     | ug/l #     | 79       |
| 16) Acetone                   | 3.942  | 43    | 18530    | 22.493    | ug/l #     | 86       |
| 17) Carbon Disulfide          | 4.192  | 76    | 8122     | 1.335     | ug/l       | 99       |
| 18) Methyl Acetate            | 4.460  | 43    | 1162     | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.710  | 84    | 16876    | Below Cal |            | 88       |
| 25) 2-Butanone                | 6.984  | 43    | 5533     | 5.111     | ug/l       | 97       |
| 29) Tetrahydrofuran           | 7.344  | 42    | 1273     | 2.082     | ug/l       | 97       |
| 31) Cyclohexane               | 7.783  | 56    | 4896     | 1.165     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 18932    | 4.431     | ug/l #     | 51       |
| 37) Ethyl Acetate             | 6.984  | 43    | 5533     | 2.274     | ug/l #     | 72       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 25468    | 5.328     | ug/l #     | 15       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 96423    | 47.839    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 96423    | 104.783   | ug/l #     | 7        |
| 95) Naphthalene               | 15.233 | 128   | 1466     | 4.223     | ug/l #     | 81       |
| -----                         |        |       |          |           |            |          |

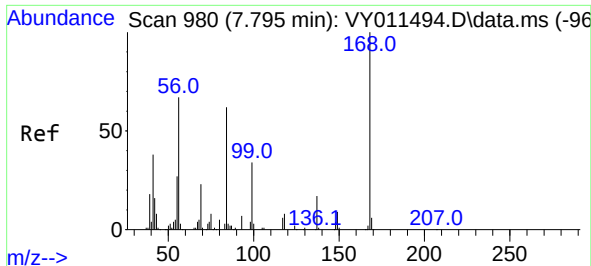
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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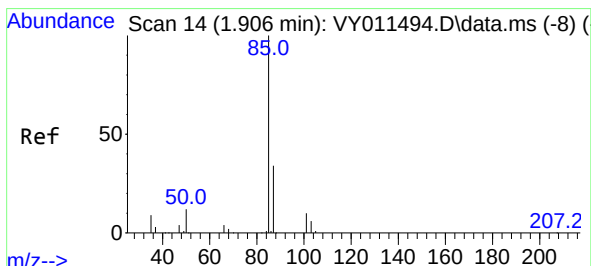
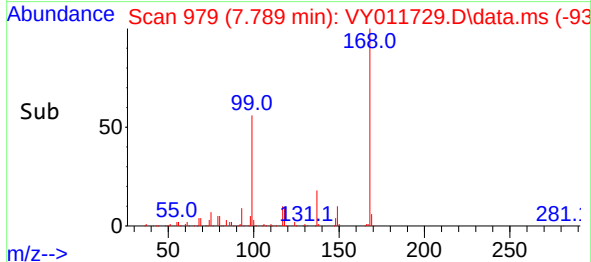
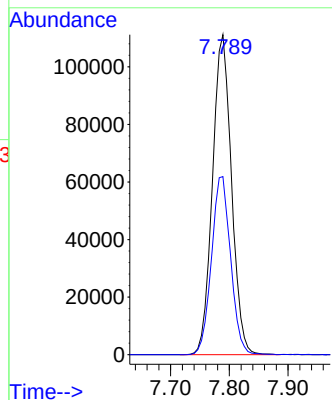
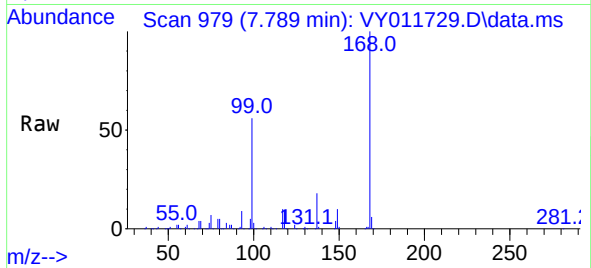




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

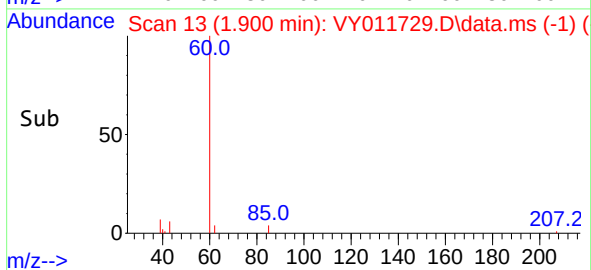
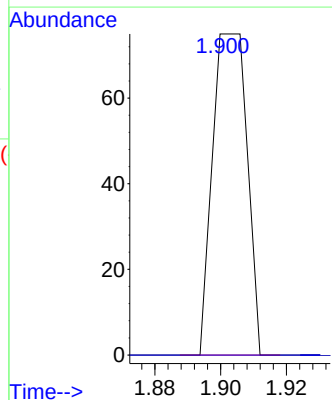
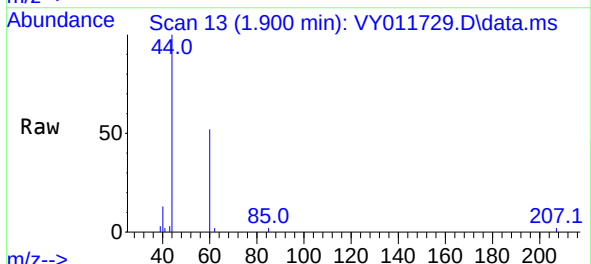
Instrument :  
MSVOA\_Y  
ClientSampleId :  
2913

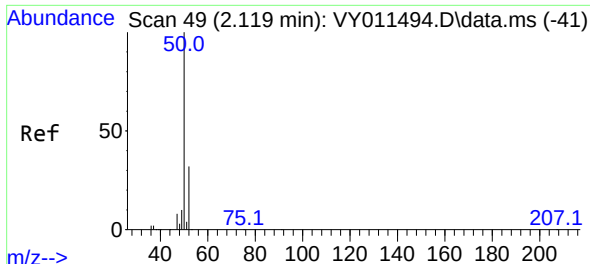
Tgt Ion:168 Resp: 249776  
Ion Ratio Lower Upper  
168 100  
99 55.7 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 85 Resp: 55  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#

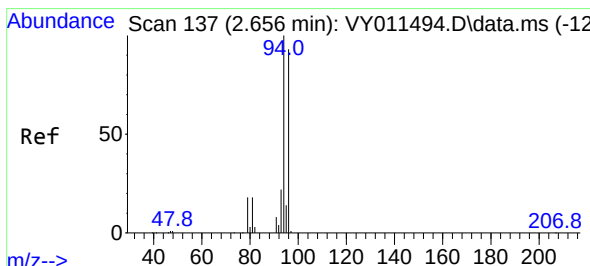
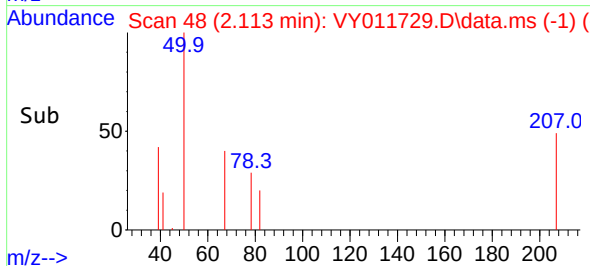
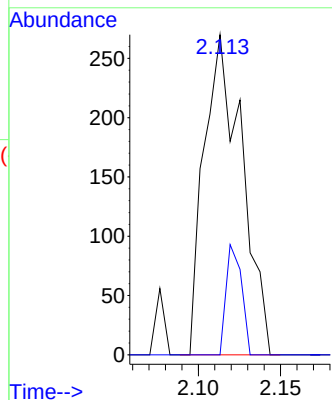
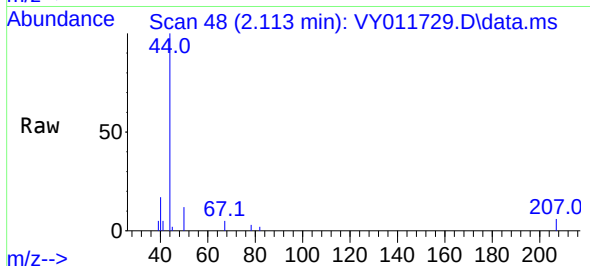




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

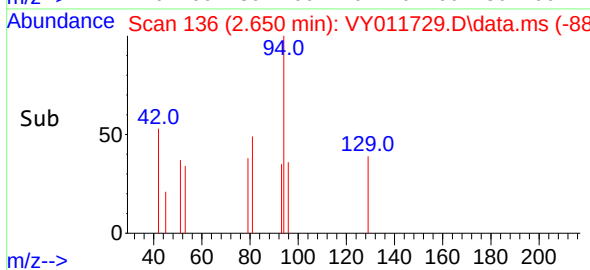
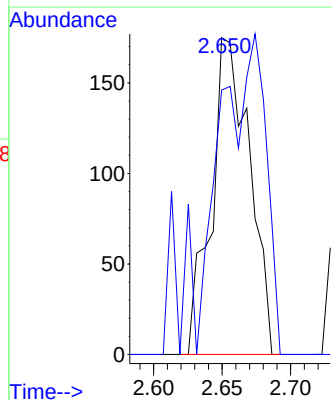
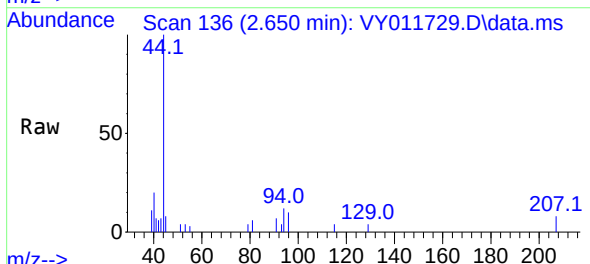
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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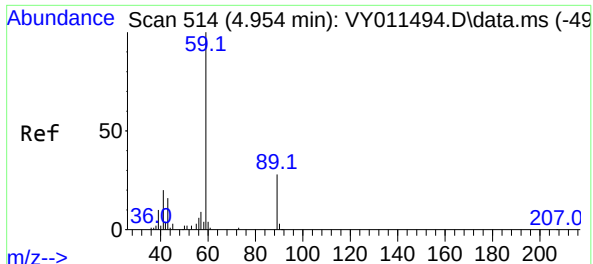
Tgt Ion: 50 Resp: 432  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.6 37.0#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.650 min Scan# 136  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 94 Resp: 338  
Ion Ratio Lower Upper  
94 100  
96 83.4 73.5 110.3

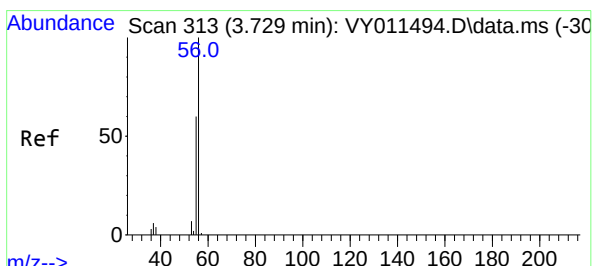
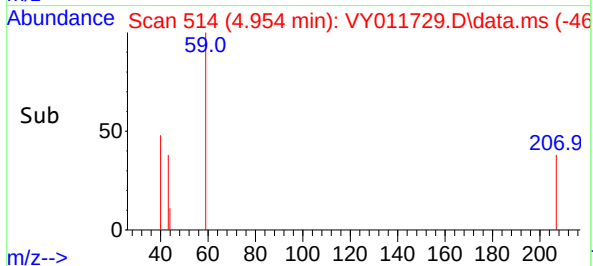
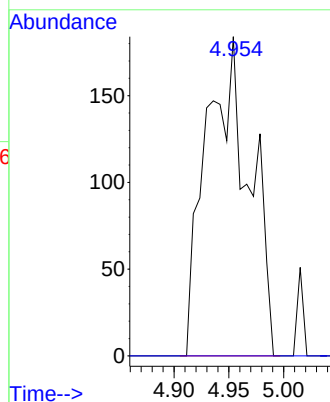
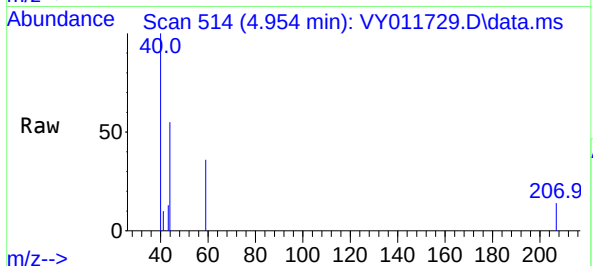




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.954 min Scan# 514  
Delta R.T. 0.000 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

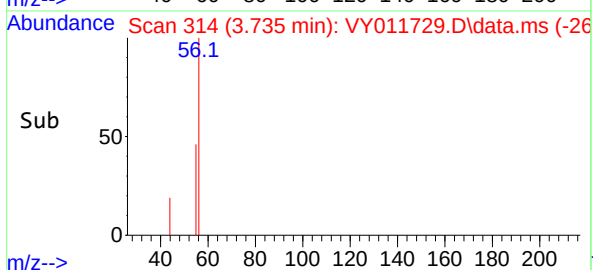
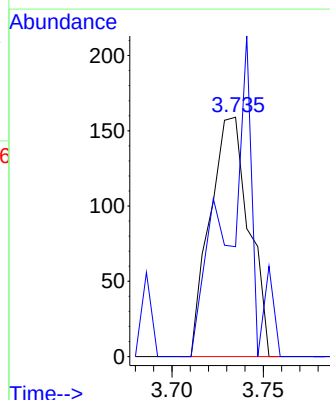
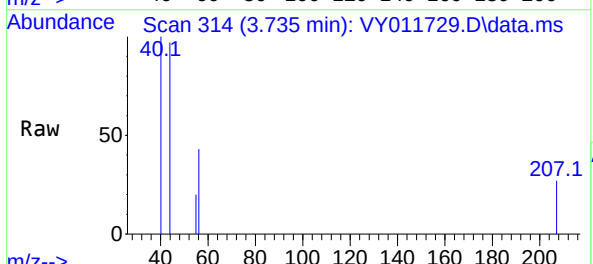
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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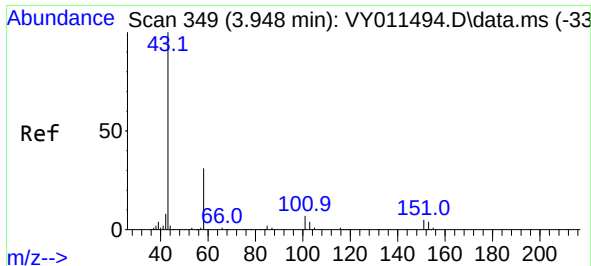
Tgt Ion: 59 Resp: 507  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#



#13  
Acrolein  
Concen: 3.529 ug/l  
RT: 3.735 min Scan# 314  
Delta R.T. 0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 56 Resp: 236  
Ion Ratio Lower Upper  
56 100  
55 89.4 57.6 86.4#

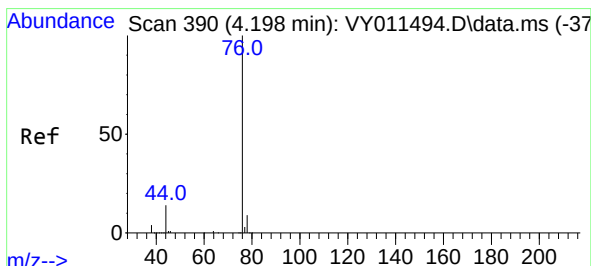
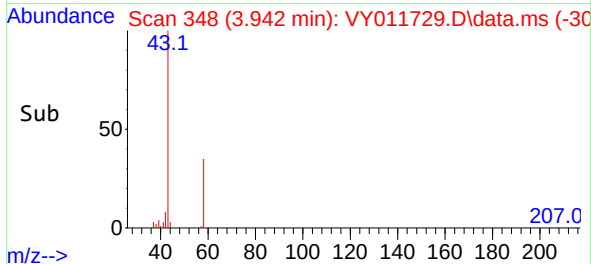
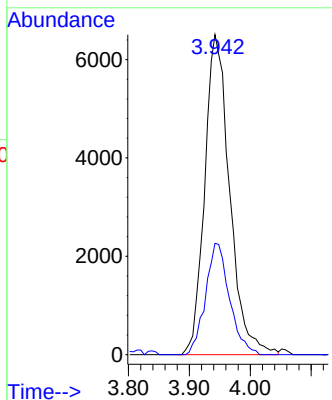
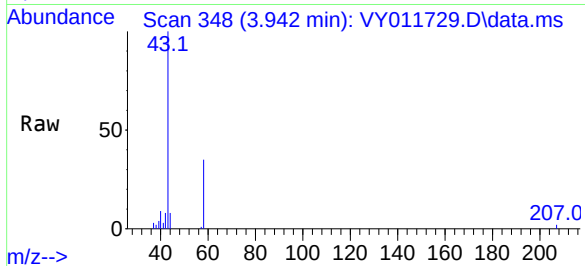




#16  
Acetone  
Concen: 22.493 ug/l  
RT: 3.942 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

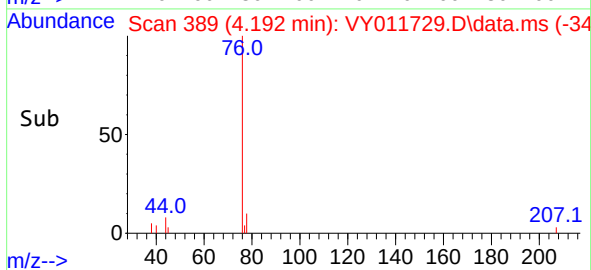
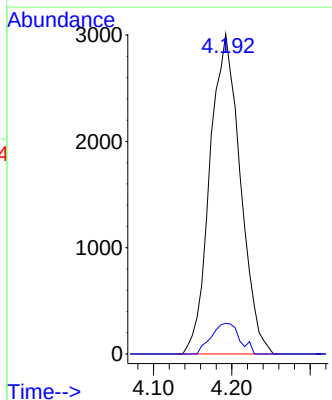
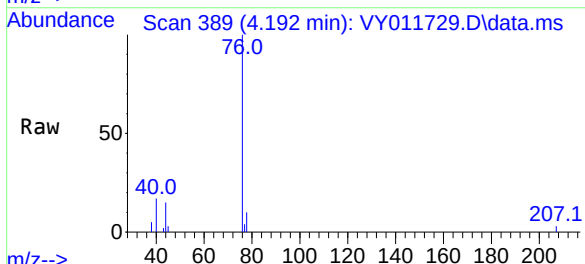
Instrument :  
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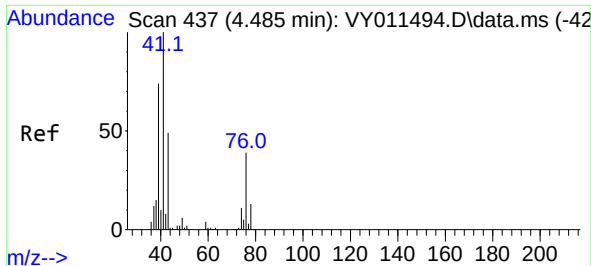
Tgt Ion: 43 Resp: 18530  
Ion Ratio Lower Upper  
43 100  
58 34.8 22.0 33.0#



#17  
Carbon Disulfide  
Concen: 1.335 ug/l  
RT: 4.192 min Scan# 389  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 76 Resp: 8122  
Ion Ratio Lower Upper  
76 100  
78 9.6 7.4 11.0

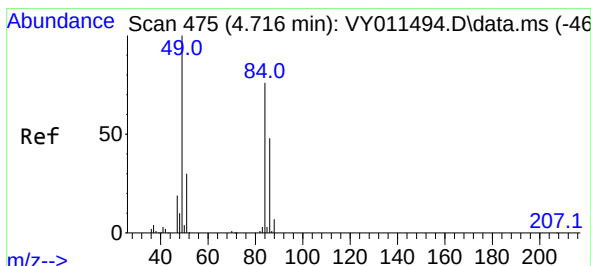
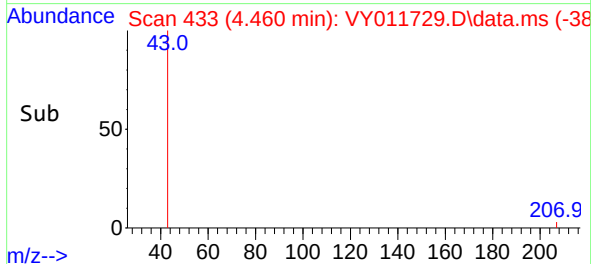
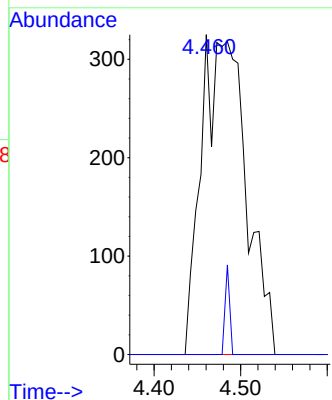
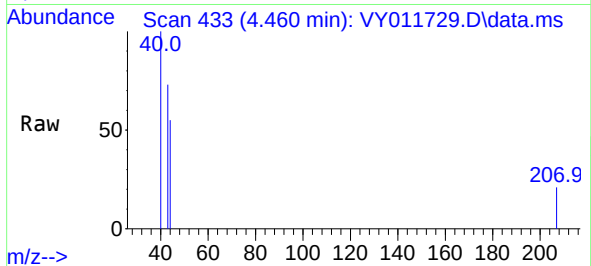




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.460 min Scan# 41  
Delta R.T. -0.025 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

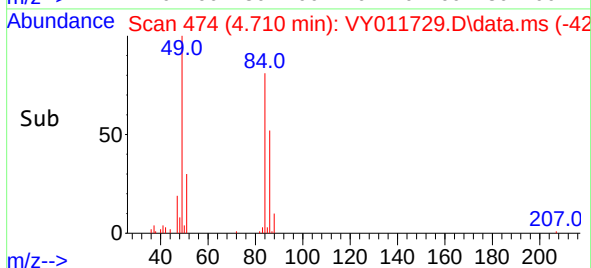
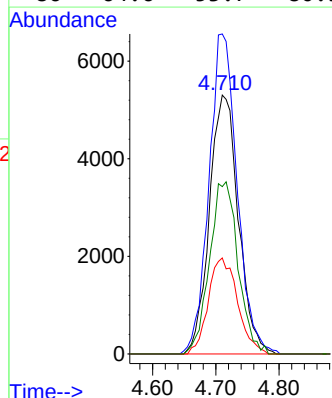
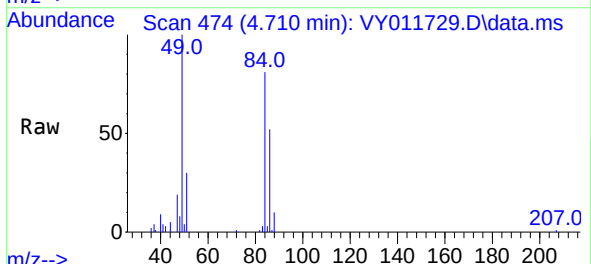
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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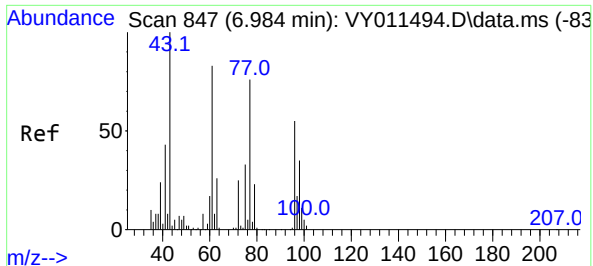
Tgt Ion: 43 Resp: 1162  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.710 min Scan# 474  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 84 Resp: 16876  
Ion Ratio Lower Upper  
84 100  
49 123.6 114.4 171.6  
51 37.1 35.3 52.9  
86 64.6 53.7 80.5





#25

2-Butanone

Concen: 5.111 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY011729.D

Acq: 07 Dec 2022 13:30

Instrument :

MSVOA\_Y

ClientSampleId :

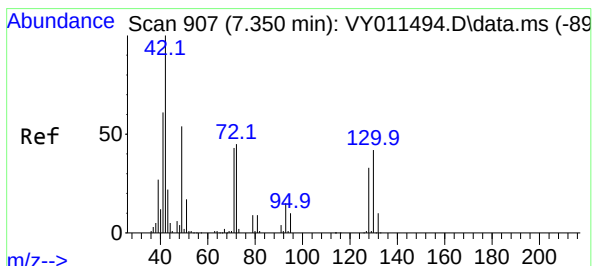
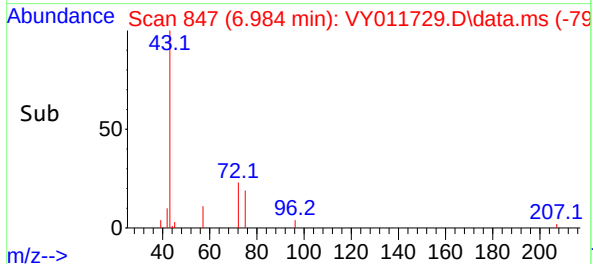
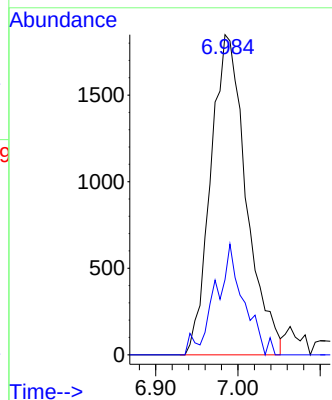
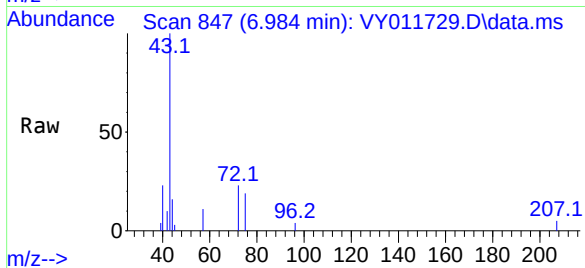
2913

Tgt Ion: 43 Resp: 5533

Ion Ratio Lower Upper

43 100

72 23.5 17.7 26.5



#29

Tetrahydrofuran

Concen: 2.082 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.006 min

Lab File: VY011729.D

Acq: 07 Dec 2022 13:30

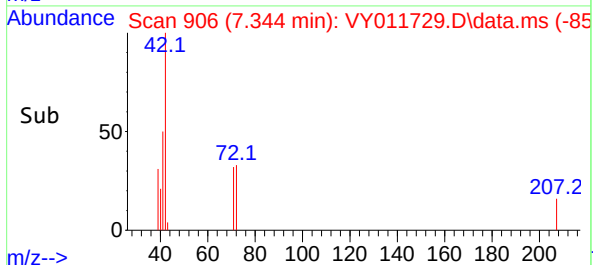
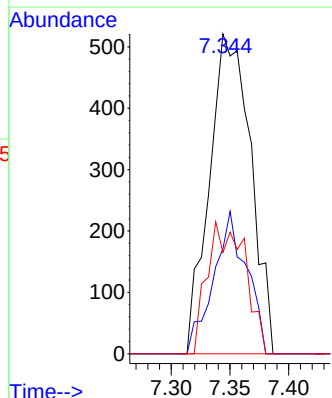
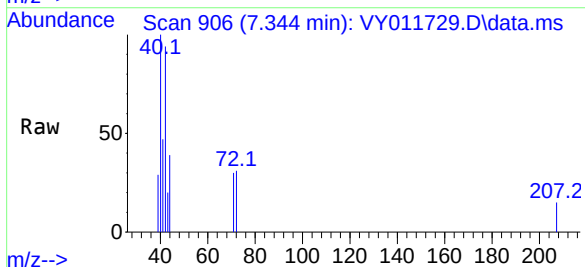
Tgt Ion: 42 Resp: 1273

Ion Ratio Lower Upper

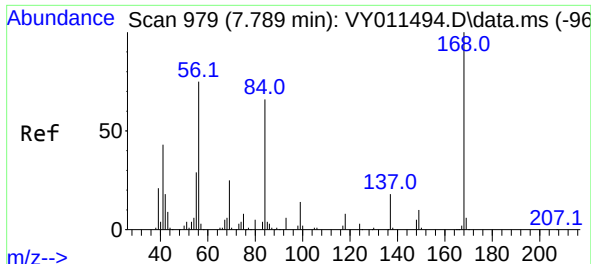
42 100

72 35.7 30.3 45.5

71 37.7 29.0 43.4

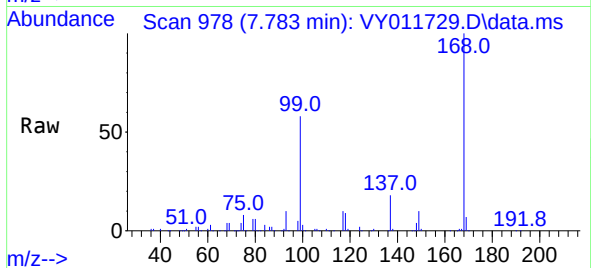




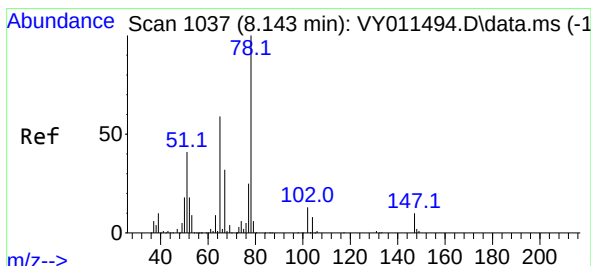
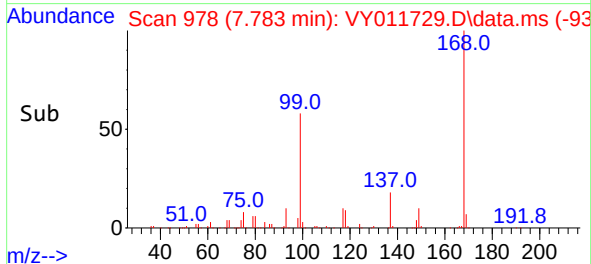
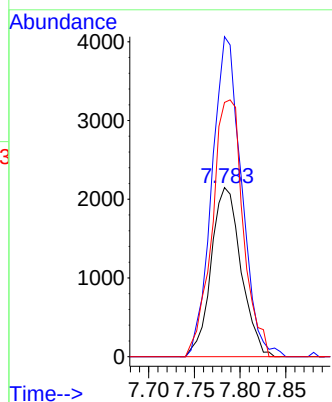


#31  
Cyclohexane  
Concen: 1.165 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
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Instrument :  
MSVOA\_Y  
ClientSampleId :  
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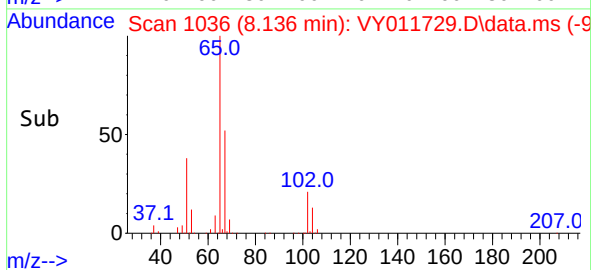
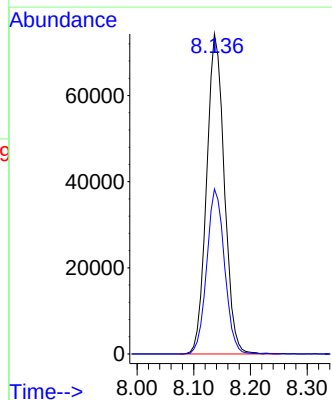
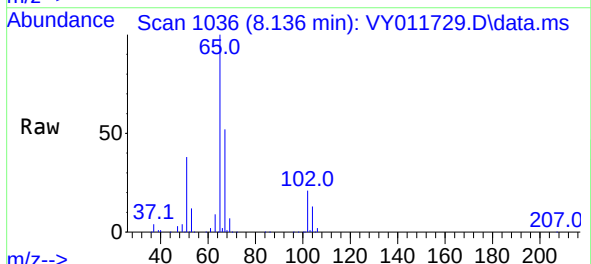


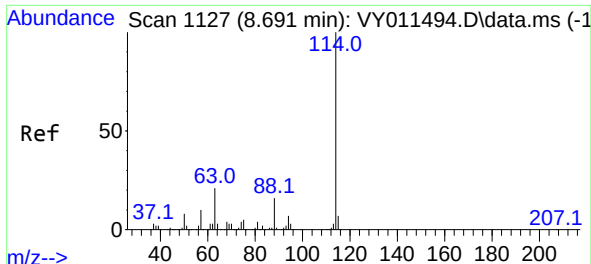
Tgt Ion: 56 Resp: 4896  
Ion Ratio Lower Upper  
56 100  
69 189.2 26.7 40.1#  
84 150.4 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 63.533 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.007 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 65 Resp: 161133  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 99.4

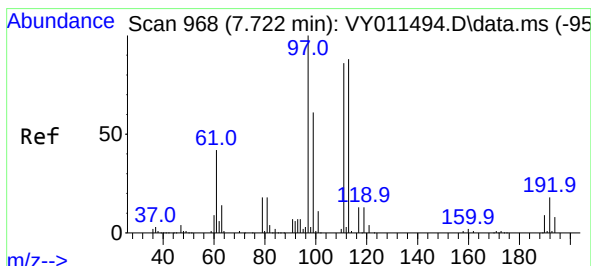
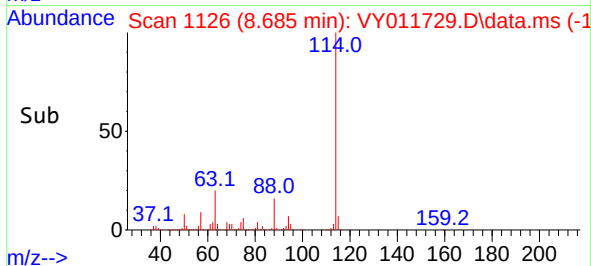
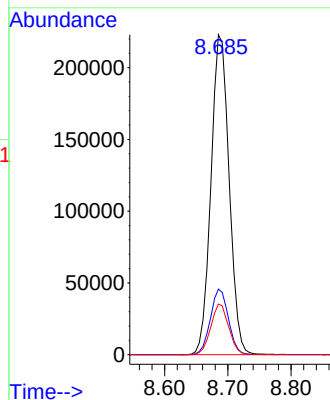
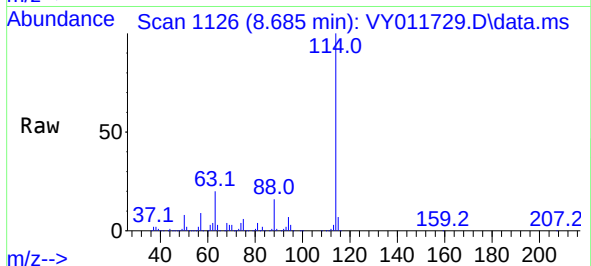




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

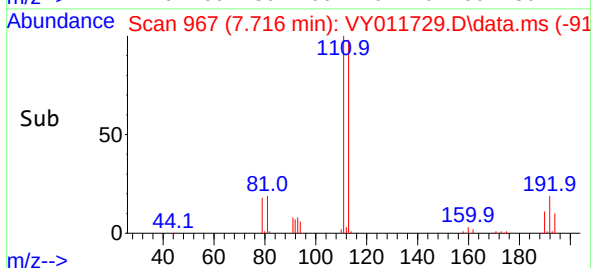
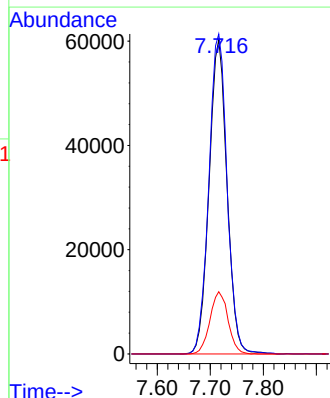
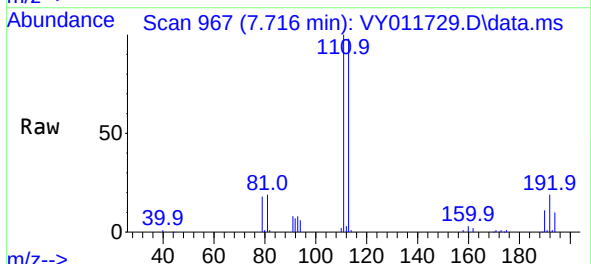
Instrument :  
MSVOA\_Y  
ClientSampleId :  
2913

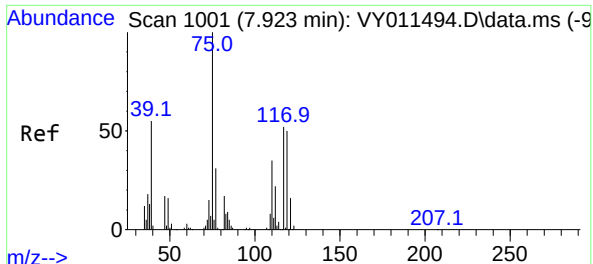
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 444004      |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 20.5  | 0.0 43.2    |
| 88          | 15.8  | 0.0 31.8    |



#35  
Dibromofluoromethane  
Concen: 51.692 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 141287      |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 103.7 | 82.6 124.0  |
| 192         | 20.0  | 17.6 26.4   |

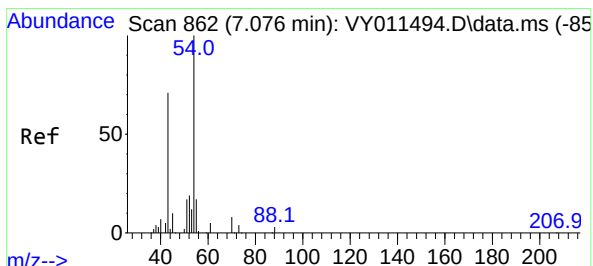
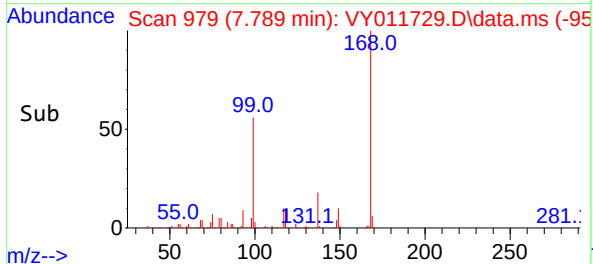
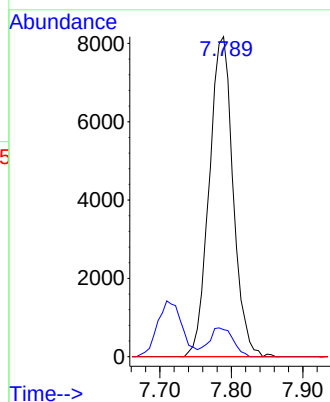
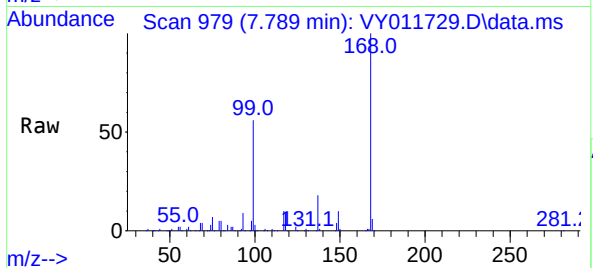




#36  
1,1-Dichloropropene  
Concen: 4.431 ug/l  
RT: 7.789 min Scan# 913  
Delta R.T. -0.134 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

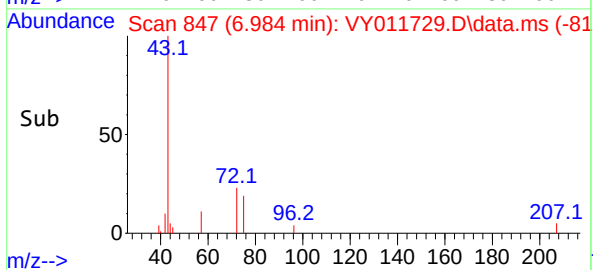
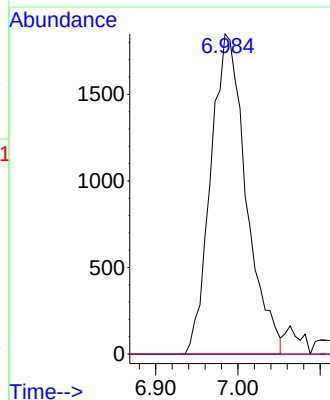
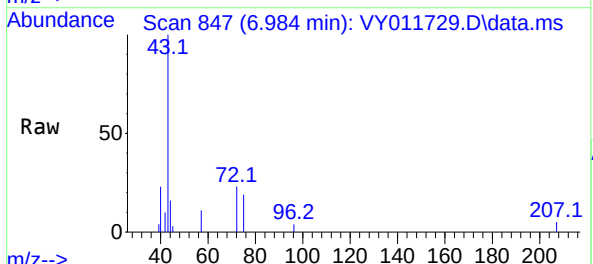
Instrument :  
MSVOA\_Y  
ClientSampleId :  
2913

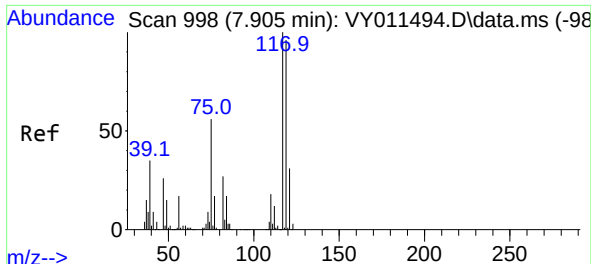
Tgt Ion: 75 Resp: 18932  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.1 51.2#  
77 0.0 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 2.274 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. -0.092 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 43 Resp: 5533  
Ion Ratio Lower Upper  
43 100  
61 0.0 9.7 14.5#  
70 0.0 7.1 10.7#

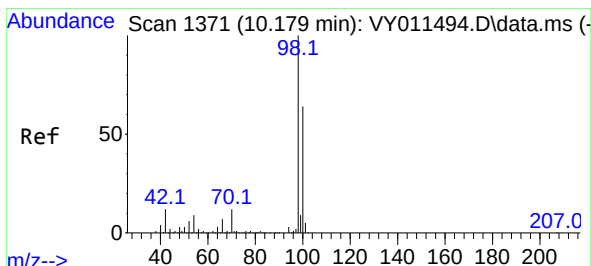
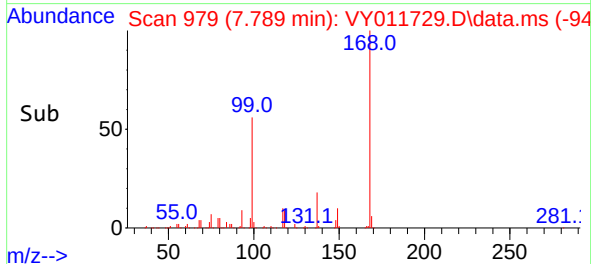
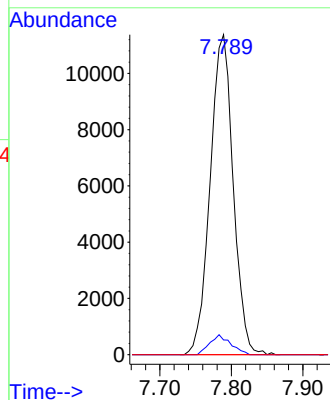
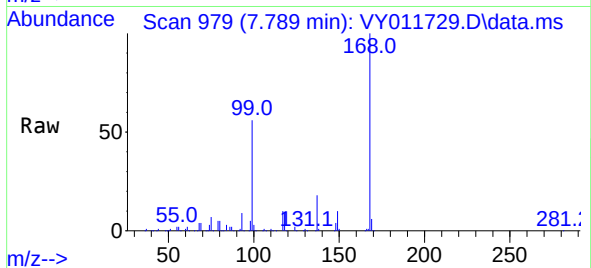




#38  
Carbon Tetrachloride  
Concen: 5.328 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

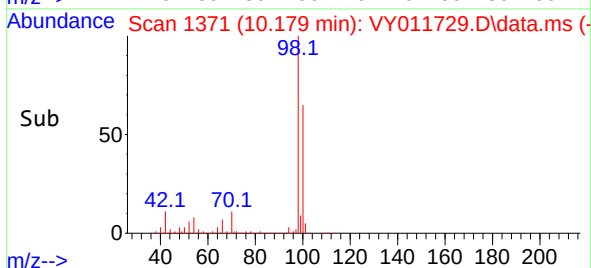
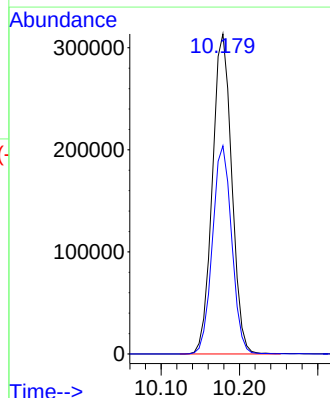
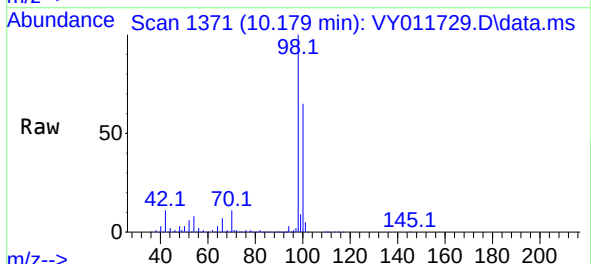
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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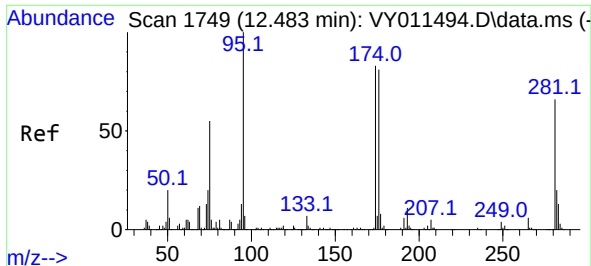
Tgt Ion:117 Resp: 25468  
Ion Ratio Lower Upper  
117 100  
119 4.6 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 54.202 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 98 Resp: 538353  
Ion Ratio Lower Upper  
98 100  
100 64.5 50.2 75.2

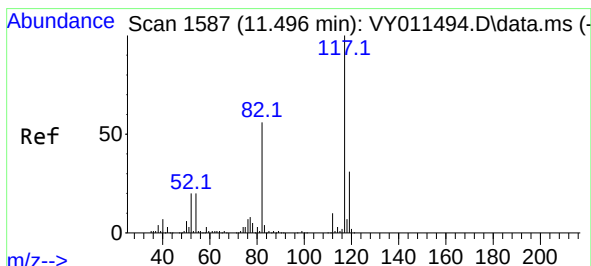
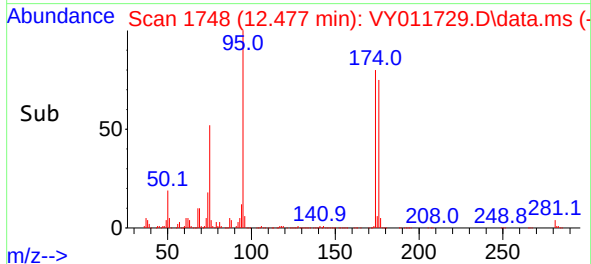
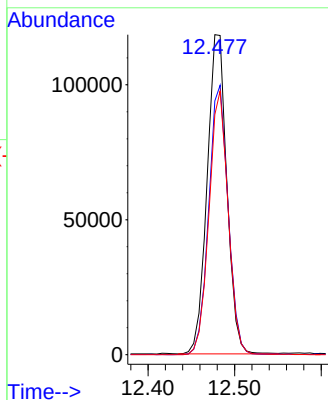
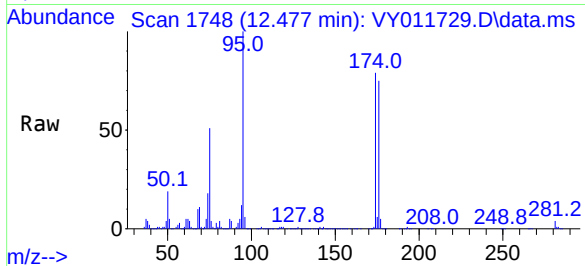




#62  
4-Bromofluorobenzene  
Concen: 51.004 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

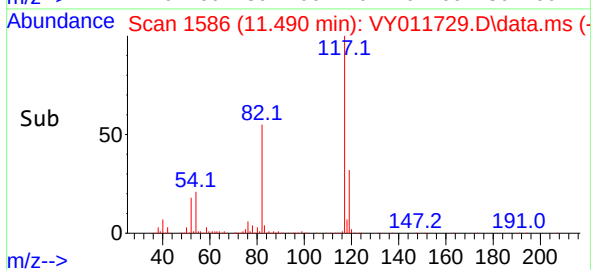
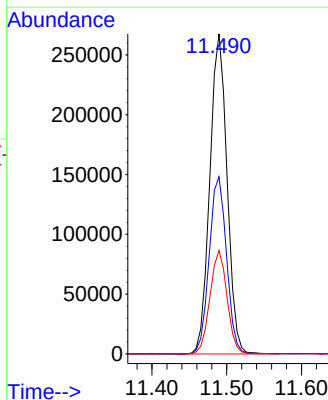
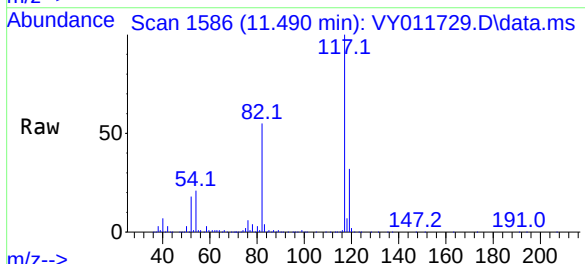
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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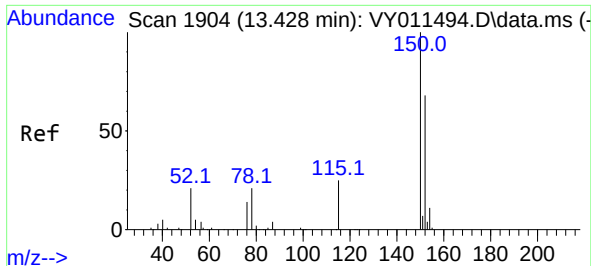
Tgt Ion: 95 Resp: 187303  
Ion Ratio Lower Upper  
95 100  
174 83.0 0.0 177.0  
176 80.0 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion: 117 Resp: 429075  
Ion Ratio Lower Upper  
117 100  
82 55.4 43.0 64.4  
119 32.3 25.4 38.0

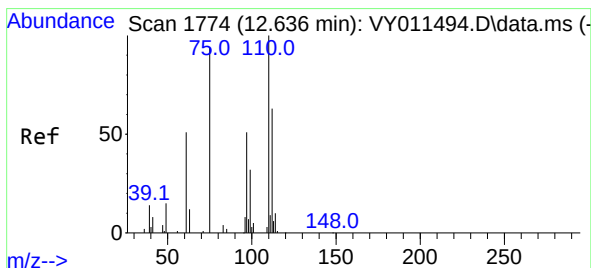
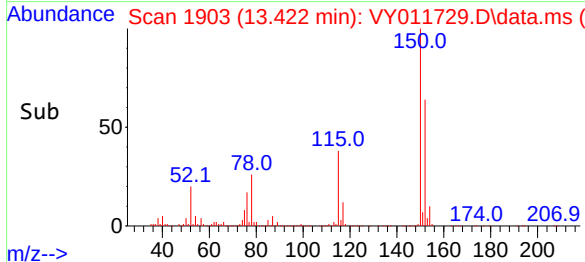
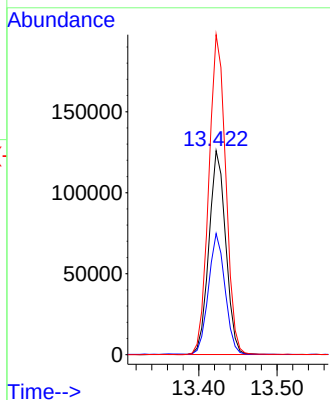
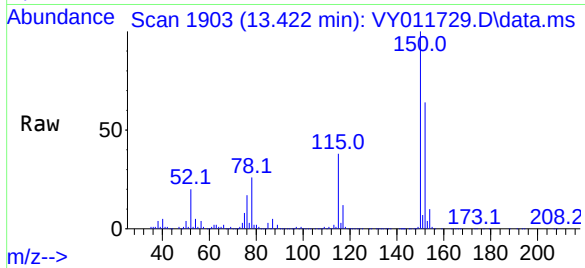




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1904  
 Delta R.T. -0.006 min  
 Lab File: VY011729.D  
 Acq: 07 Dec 2022 13:30

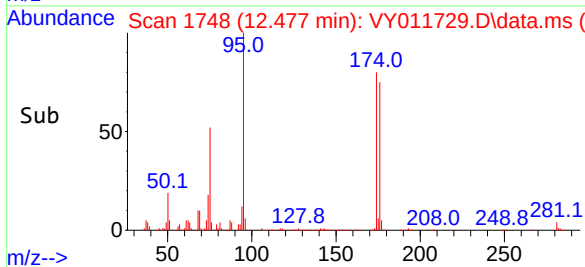
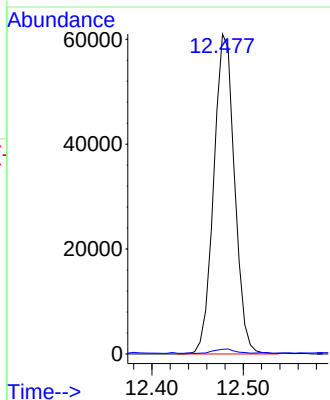
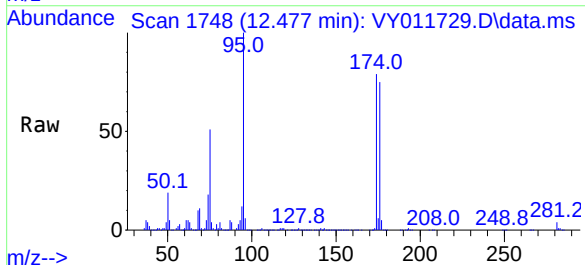
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2913

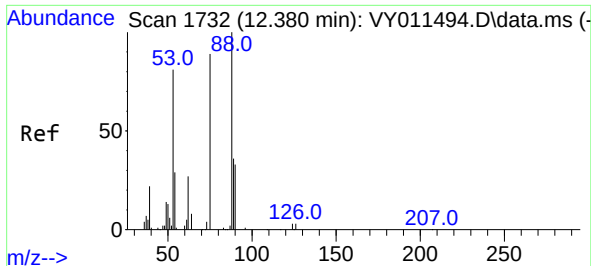
Tgt Ion:152 Resp: 187160  
 Ion Ratio Lower Upper  
 152 100  
 115 58.4 28.2 84.7  
 150 158.8 0.0 347.6



#76  
 1,2,3-Trichloropropane  
 Concen: 47.839 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.159 min  
 Lab File: VY011729.D  
 Acq: 07 Dec 2022 13:30

Tgt Ion: 75 Resp: 96423  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#

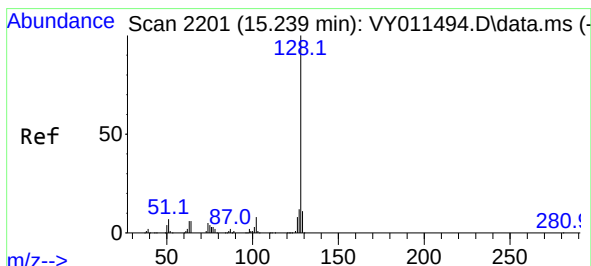
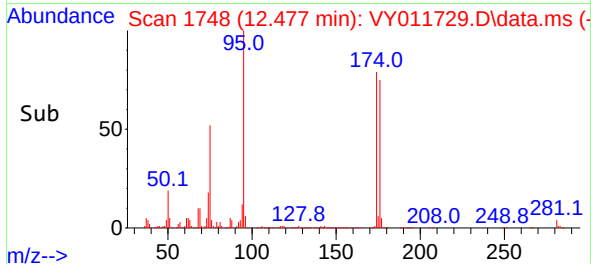
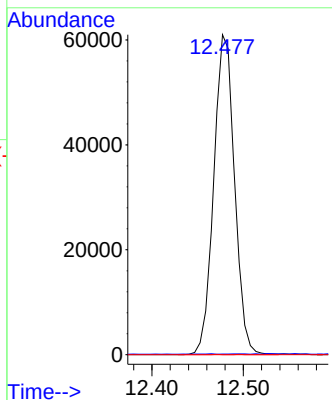
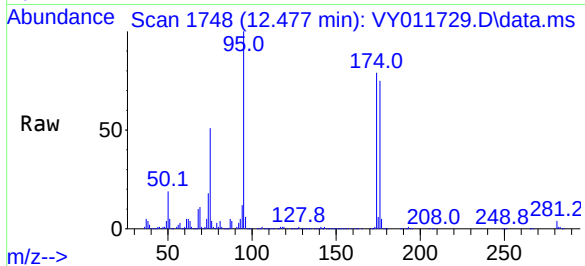




#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.783 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.097 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Instrument :  
MSVOA\_Y  
ClientSampleId :  
2913

Tgt Ion: 75 Resp: 96423  
Ion Ratio Lower Upper  
75 100  
53 0.1 85.3 127.9#  
89 0.0 37.0 55.4#



#95  
Naphthalene  
Concen: 4.223 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.006 min  
Lab File: VY011729.D  
Acq: 07 Dec 2022 13:30

Tgt Ion:128 Resp: 1466  
Ion Ratio Lower Upper  
128 100  
127 24.6 11.0 16.4#  
129 7.4 8.4 12.6#

