

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121322\  
 Data File : VY011797.D  
 Acq On : 13 Dec 2022 16:33  
 Operator : KP/MD  
 Sample : N5988-02RE  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 72-11938RE

Quant Time: Dec 13 22:18:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

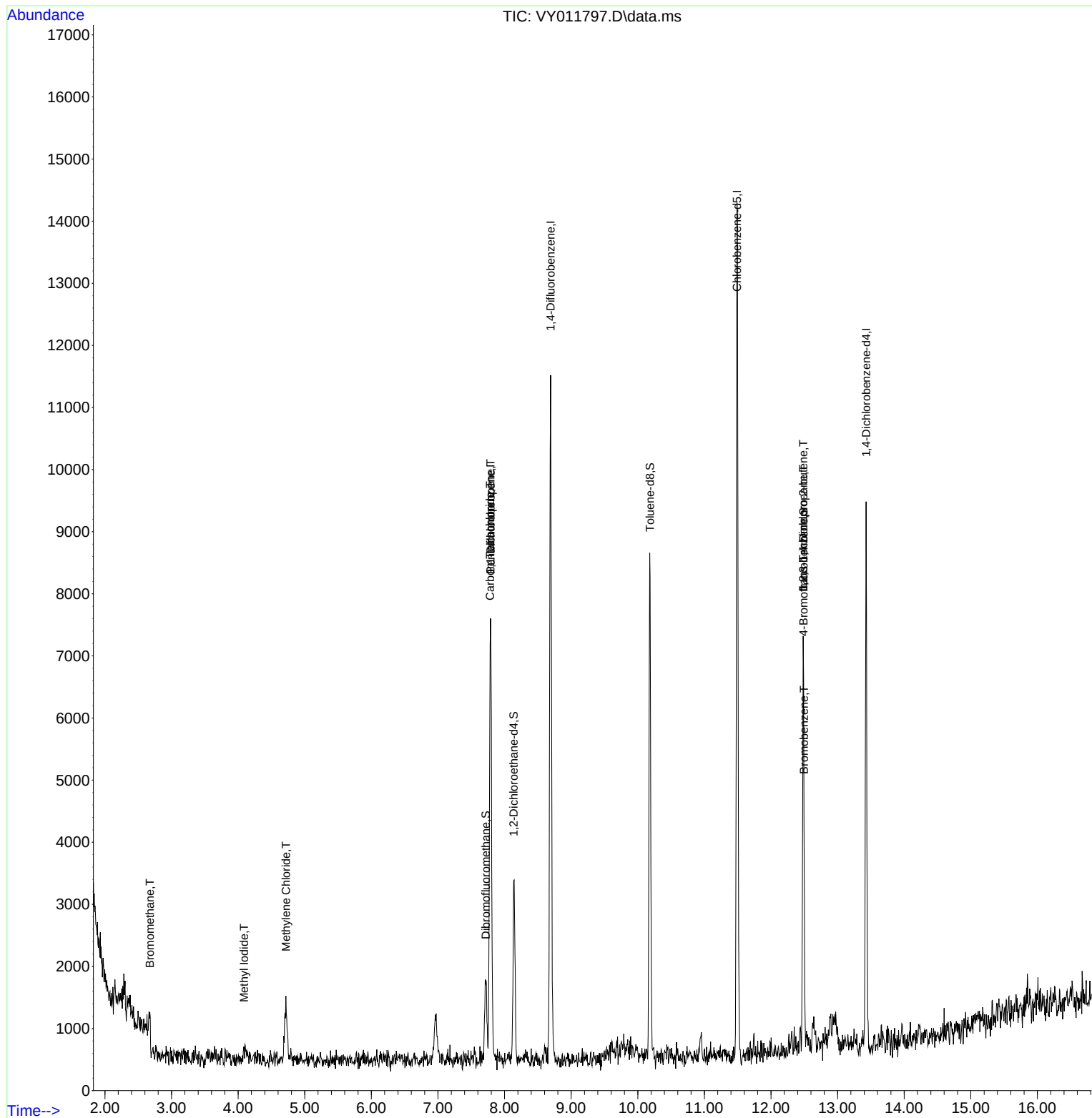
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 6311     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 9705     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 8260     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 2498     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 2358     | 55.258    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 110.520% |
| 35) Dibromofluoromethane      | 7.716  | 113   | 1163     | 25.030    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 50.060%# |
| 50) Toluene-d8                | 10.185 | 98    | 5988     | 41.187    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 82.380%  |
| 62) 4-Bromofluorobenzene      | 12.489 | 95    | 1967     | 33.446    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 66.900%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 4) Vinyl Chloride             | 2.375  | 62    | 38       | Below Cal | #      | 43       |
| 5) Bromomethane               | 2.674  | 94    | 186      | 2.940     | ug/l # | 64       |
| 10) Methyl Iodide             | 4.088  | 142   | 256      | 4.222     | ug/l # | 49       |
| 20) Methylene Chloride        | 4.716  | 84    | 674      | 5.793     | ug/l # | 70       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 379      | 5.146     | ug/l # | 41       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 714      | 8.254     | ug/l # | 14       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 930      | 36.798    | ug/l # | 100      |
| 77) Bromobenzene              | 12.496 | 156   | 38       | 1.006     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 930      | 83.502    | ug/l # | 13       |
| -----                         |        |       |          |           |        |          |

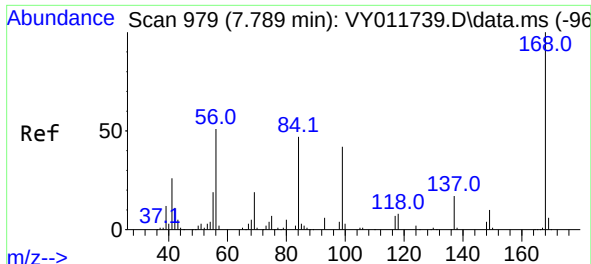
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11938RE

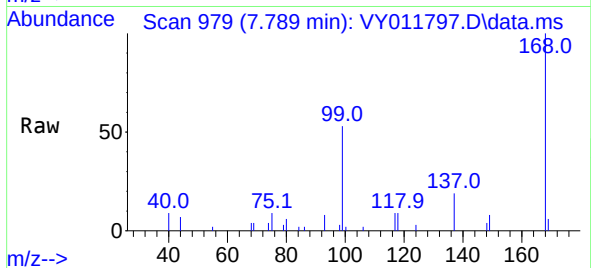
Quant Time: Dec 13 22:18:49 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 10 04:19:59 2022  
Response via : Initial Calibration



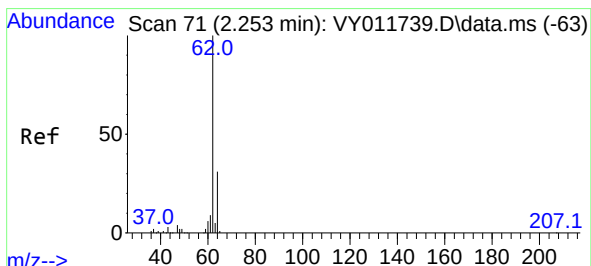
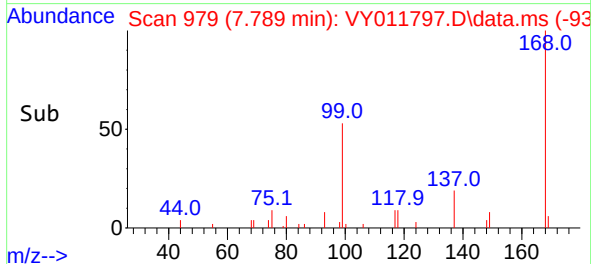
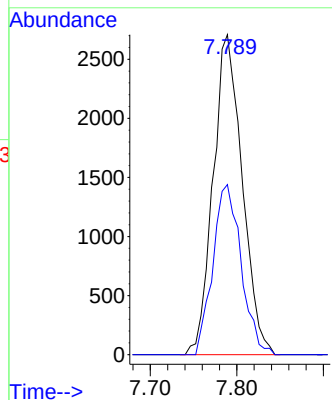


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11938RE

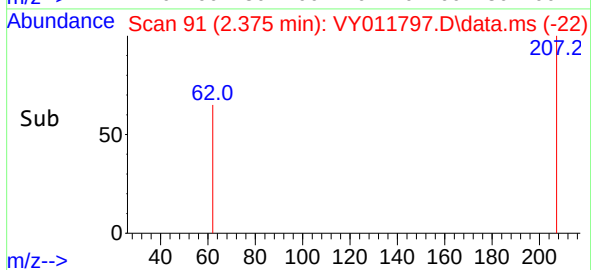
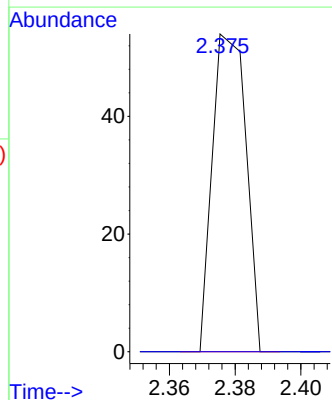
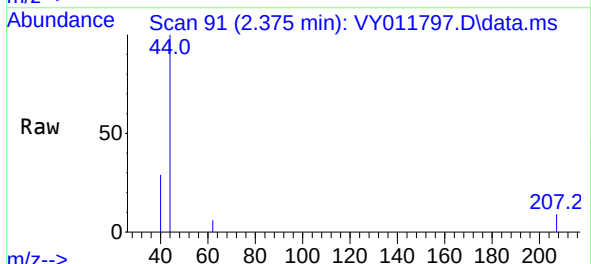


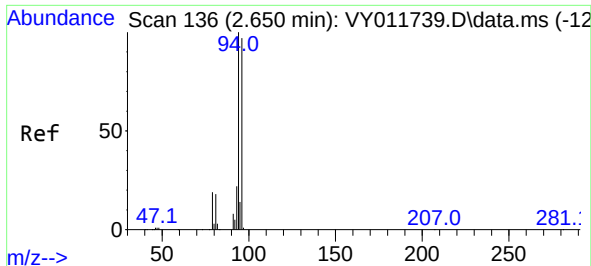
Tgt Ion:168 Resp: 6311  
Ion Ratio Lower Upper  
168 100  
99 53.1 44.0 66.0



#4  
Vinyl Chloride  
Concen: Below Cal  
RT: 2.375 min Scan# 91  
Delta R.T. 0.122 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Tgt Ion: 62 Resp: 38  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.0 37.6#

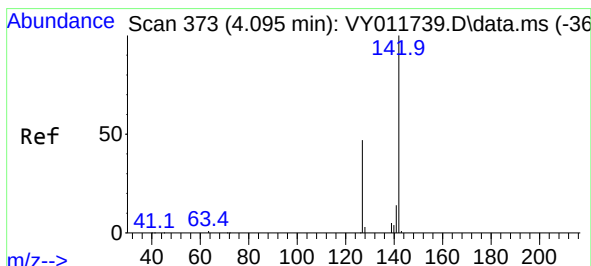
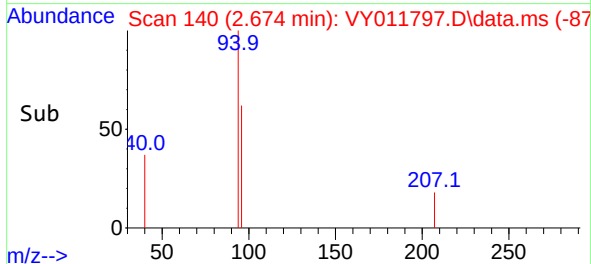
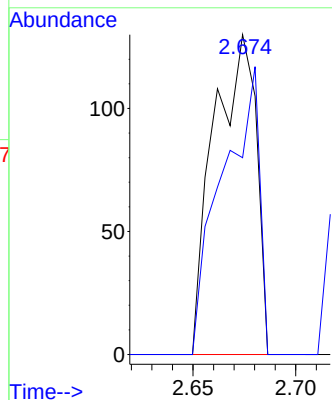
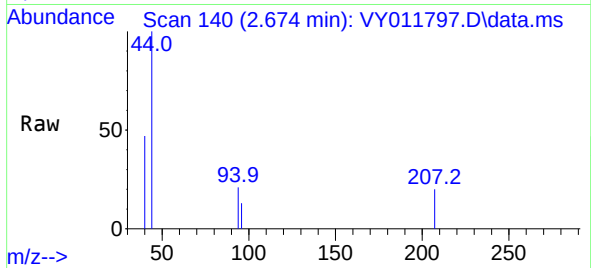




#5  
Bromomethane  
Concen: 2.940 ug/l  
RT: 2.674 min Scan# 14  
Delta R.T. 0.024 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

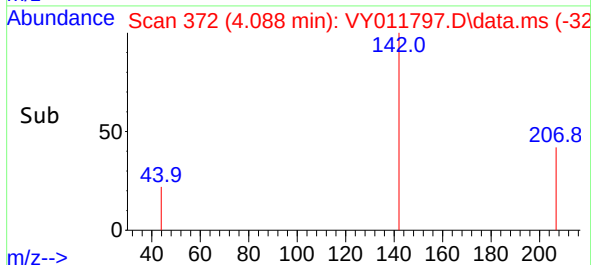
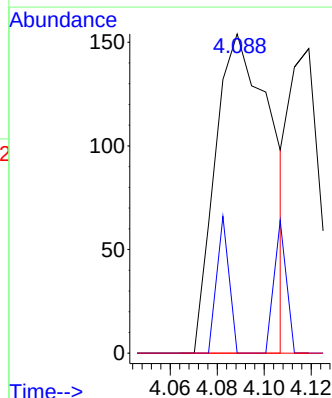
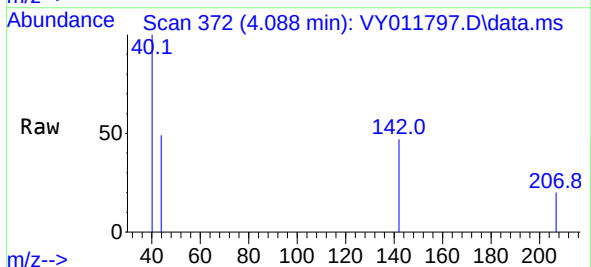
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11938RE

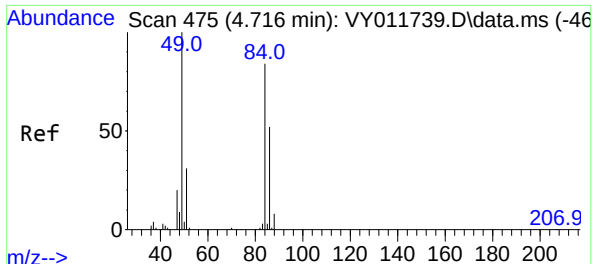
Tgt Ion: 94 Resp: 186  
Ion Ratio Lower Upper  
94 100  
96 61.5 77.4 116.2#



#10  
Methyl Iodide  
Concen: 4.222 ug/l  
RT: 4.088 min Scan# 372  
Delta R.T. -0.006 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Tgt Ion: 142 Resp: 256  
Ion Ratio Lower Upper  
142 100  
127 9.4 37.0 55.4#  
141 0.0 11.4 17.0#



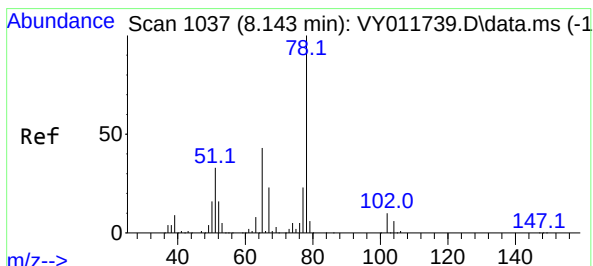
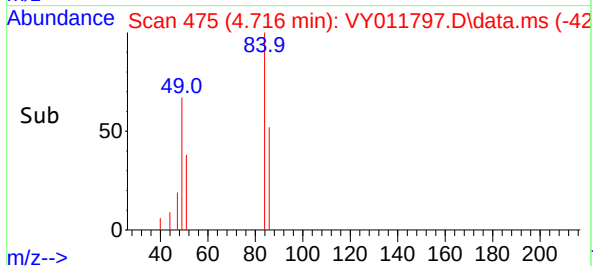
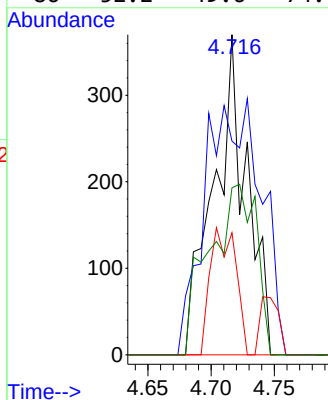
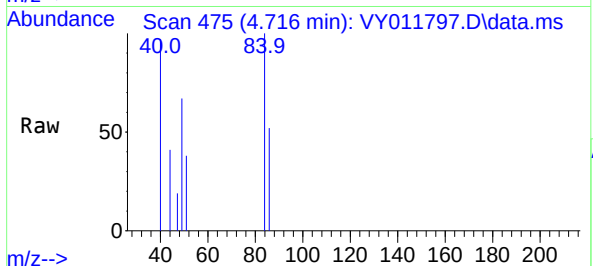


#20  
Methylene Chloride  
Concen: 5.793 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11938RE

Tgt Ion: 84 Resp: 674

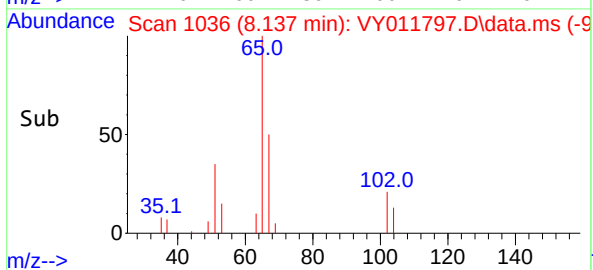
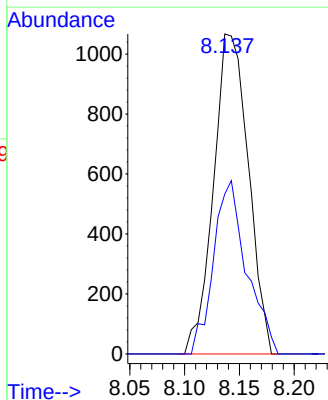
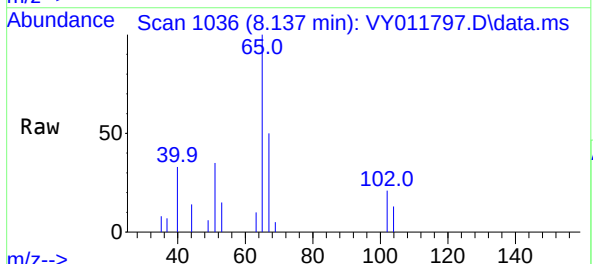
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 66.8  | 95.4  | 143.2# |
| 51  | 38.1  | 29.9  | 44.9   |
| 86  | 52.2  | 49.6  | 74.4   |

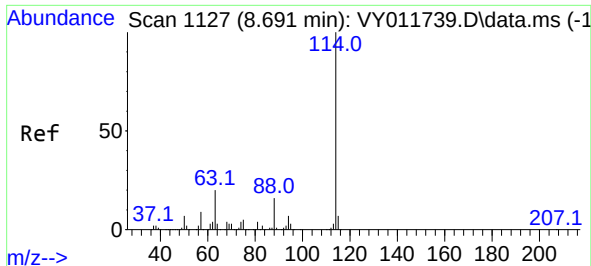


#33  
1,2-Dichloroethane-d4  
Concen: 55.258 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. -0.006 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Tgt Ion: 65 Resp: 2358

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 51.6  | 0.0   | 103.2 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY011797.D

Acq: 13 Dec 2022 16:33

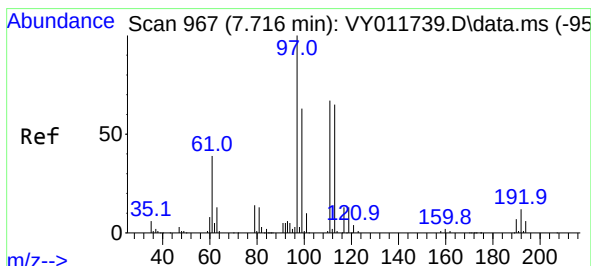
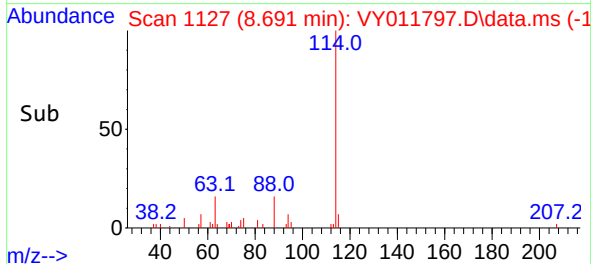
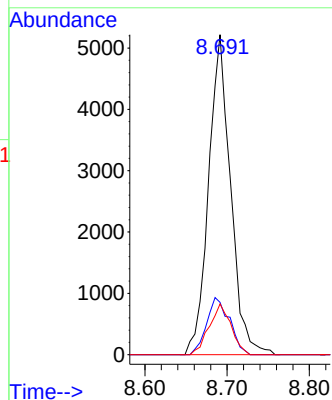
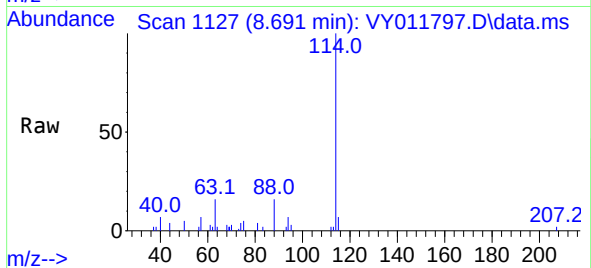
Instrument :

MSVOA\_Y

ClientSampleId :

72-11938RE

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 9705        |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 16.3  | 0.0 39.6    |
| 88          | 15.8  | 0.0 32.2    |



#35

Dibromofluoromethane

Concen: 25.030 ug/l

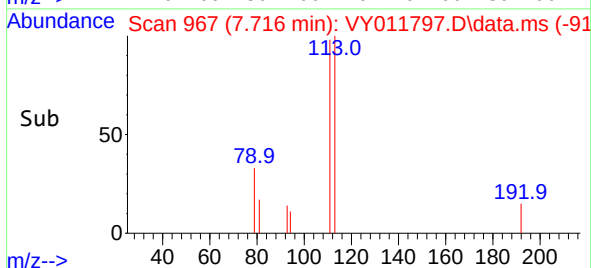
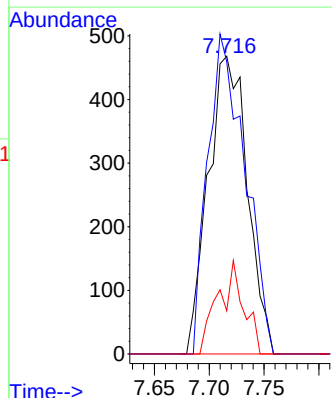
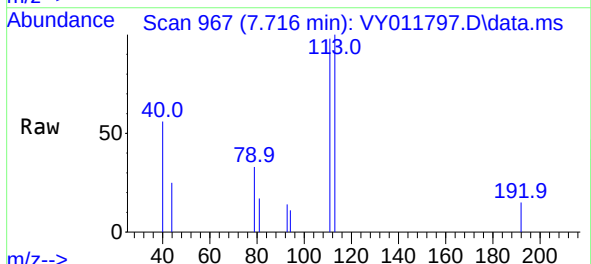
RT: 7.716 min Scan# 967

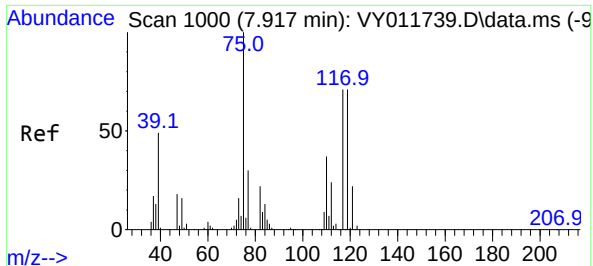
Delta R.T. -0.000 min

Lab File: VY011797.D

Acq: 13 Dec 2022 16:33

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 1163        |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 101.9 | 83.0 124.4  |
| 192         | 20.5  | 16.0 24.0   |





#36

1,1-Dichloropropene

Concen: 5.146 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY011797.D

Acq: 13 Dec 2022 16:33

Instrument :

MSVOA\_Y

ClientSampleId :

72-11938RE

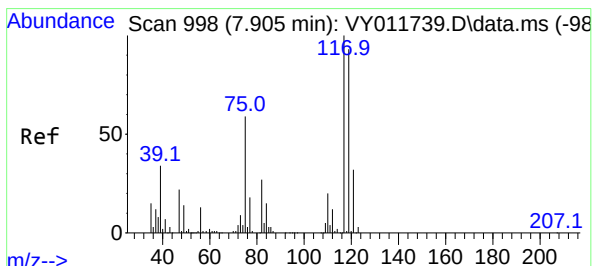
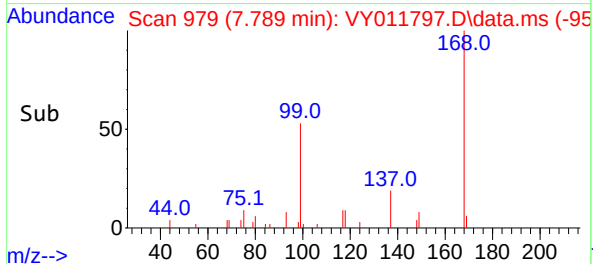
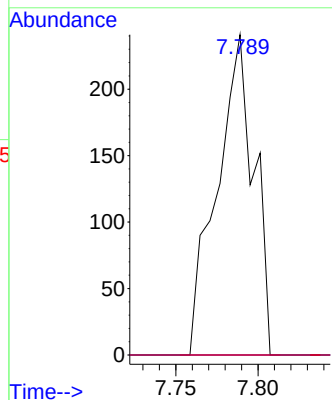
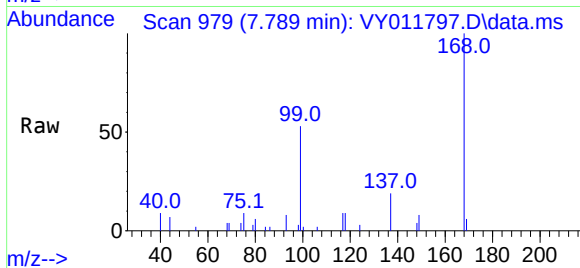
Tgt Ion: 75 Resp: 379

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 8.254 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.122 min

Lab File: VY011797.D

Acq: 13 Dec 2022 16:33

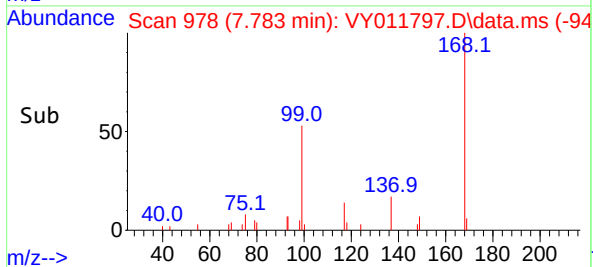
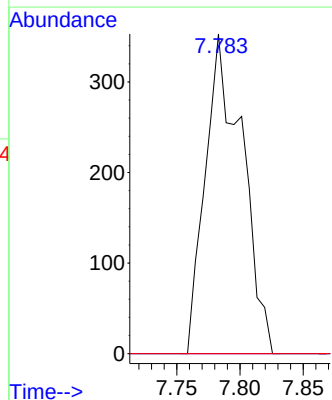
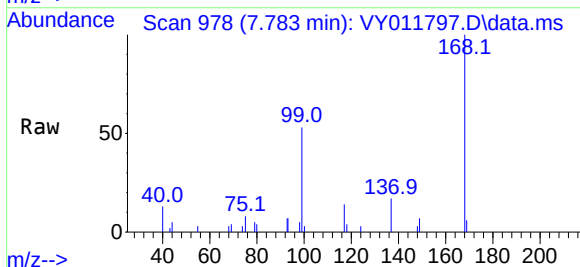
Tgt Ion: 117 Resp: 714

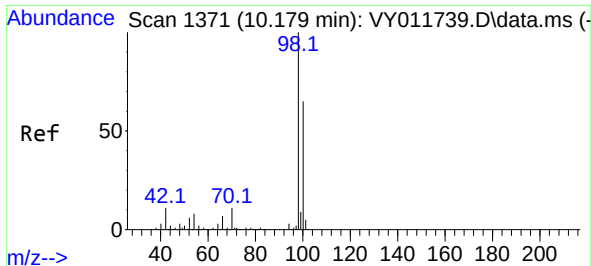
Ion Ratio Lower Upper

117 100

119 0.0 73.8 110.8#

121 0.0 25.2 37.8#

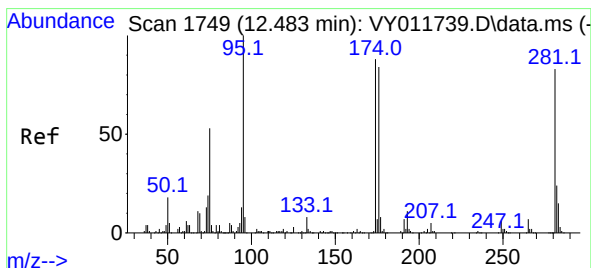
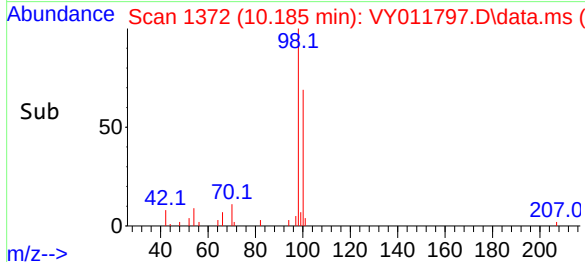
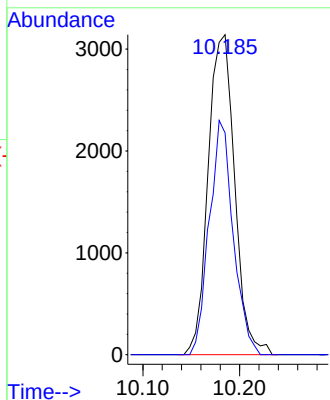
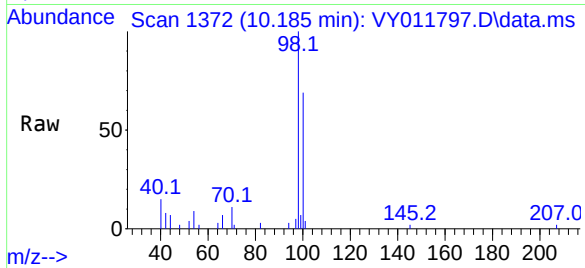




#50  
Toluene-d8  
Concen: 41.187 ug/l  
RT: 10.185 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

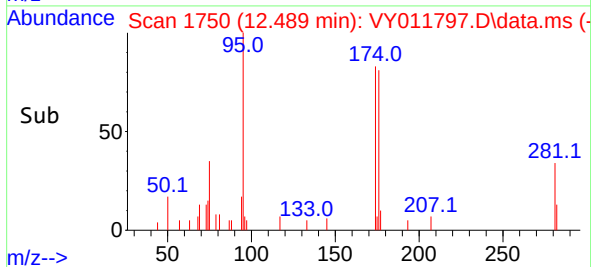
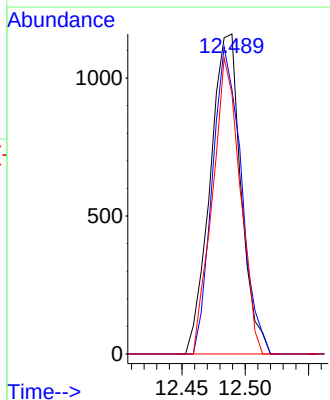
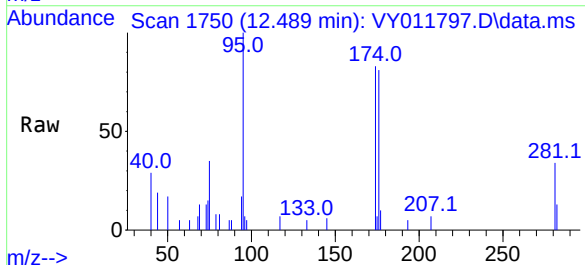
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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Tgt Ion: 98 Resp: 5988  
Ion Ratio Lower Upper  
98 100  
100 66.1 51.9 77.9

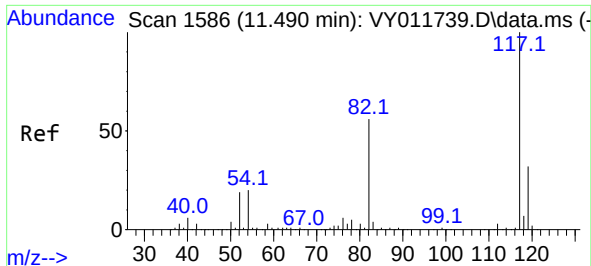


#62  
4-Bromofluorobenzene  
Concen: 33.446 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Tgt Ion: 95 Resp: 1967  
Ion Ratio Lower Upper  
95 100  
174 89.9 0.0 172.0  
176 83.0 0.0 167.6



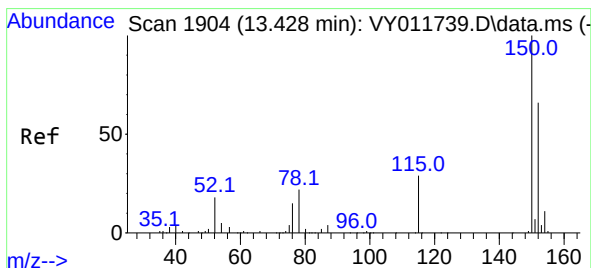
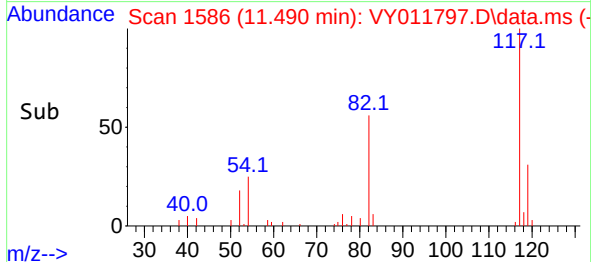
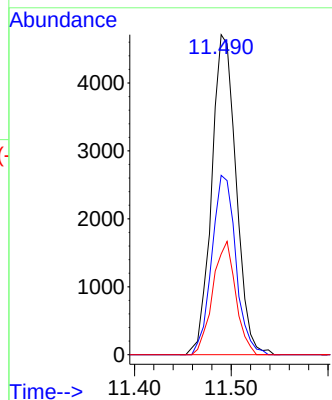
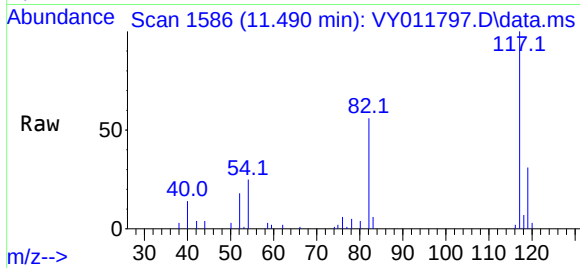




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

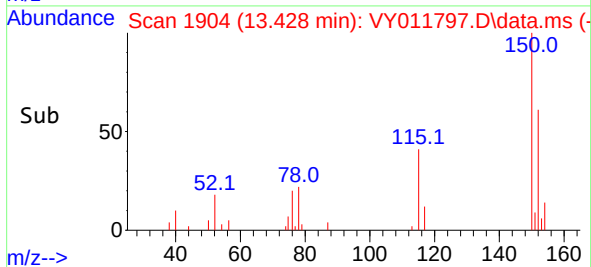
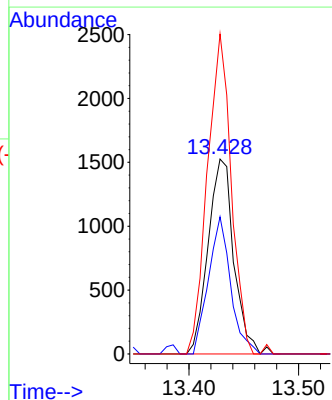
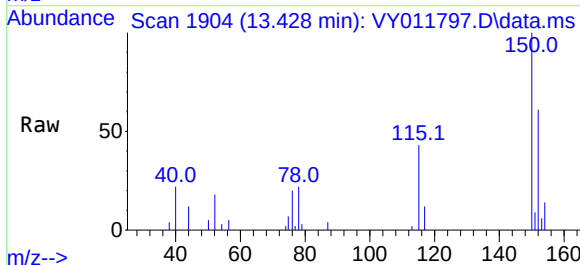
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11938RE

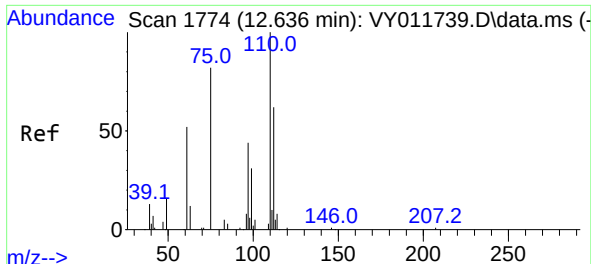
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|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 8260  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 56.1  | 44.8  | 67.2  |
| 119      | 31.5  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 2498  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 60.5  | 29.1  | 87.3  |
| 150      | 151.2 | 0.0   | 342.6 |

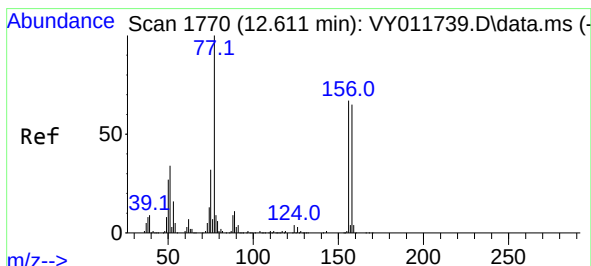
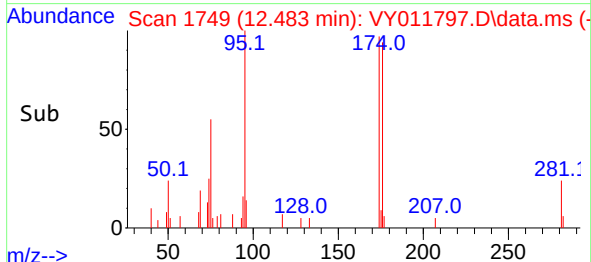
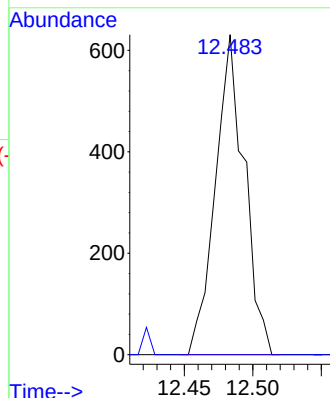
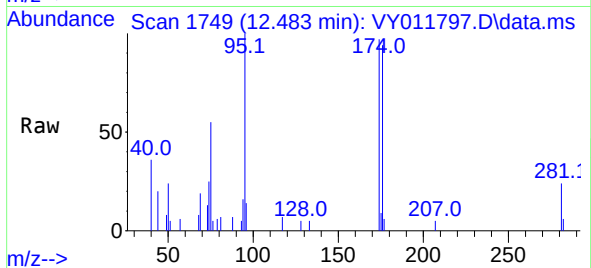




#76  
1,2,3-Trichloropropane  
Concen: 36.798 ug/l  
RT: 12.483 min Scan# 1751  
Delta R.T. -0.152 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

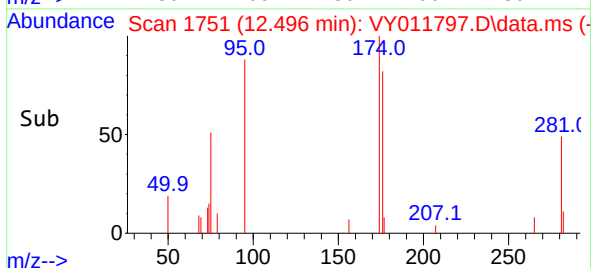
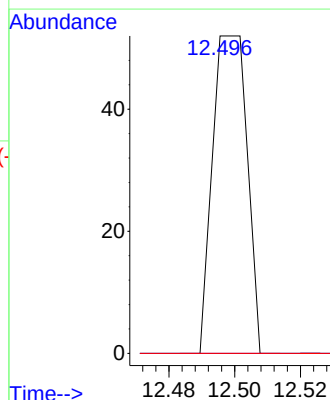
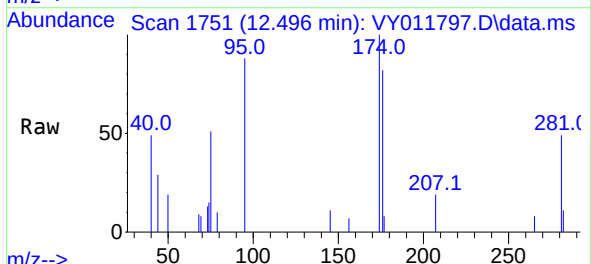
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11938RE

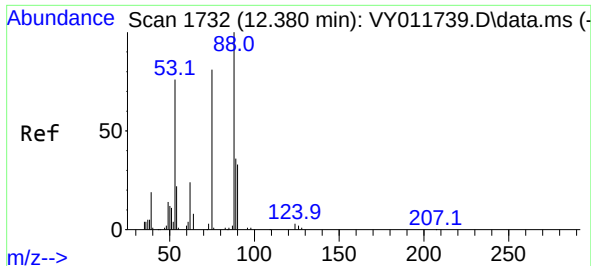
Tgt Ion: 75 Resp: 930  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#77  
Bromobenzene  
Concen: 1.006 ug/l  
RT: 12.496 min Scan# 1751  
Delta R.T. -0.116 min  
Lab File: VY011797.D  
Acq: 13 Dec 2022 16:33

Tgt Ion:156 Resp: 38  
Ion Ratio Lower Upper  
156 100  
77 0.0 90.0 270.0#  
158 0.0 48.4 145.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 83.502 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY011797.D  
 Acq: 13 Dec 2022 16:33

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 72-11938RE

Tgt Ion: 75 Resp: 930  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.5 108.7#  
 89 0.0 37.0 55.4#

