

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122222\  
 Data File : VY011969.D  
 Acq On : 22 Dec 2022 13:04  
 Operator : KP/MD  
 Sample : N6163-01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TR-06-122022

Quant Time: Dec 23 04:31:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 7843     | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 14329    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 13900    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 5030     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |           |
|-----------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds |        |       |          |          |      |           |
| 33) 1,2-Dichloroethane-d4   | 8.142  | 65    | 6529     | 82.628   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 165.260%# |
| 35) Dibromofluoromethane    | 7.716  | 113   | 3850     | 44.630   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 89.260%   |
| 50) Toluene-d8              | 10.179 | 98    | 17603    | 50.295   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 100.580%  |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 5000     | 42.477   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 84.960%   |

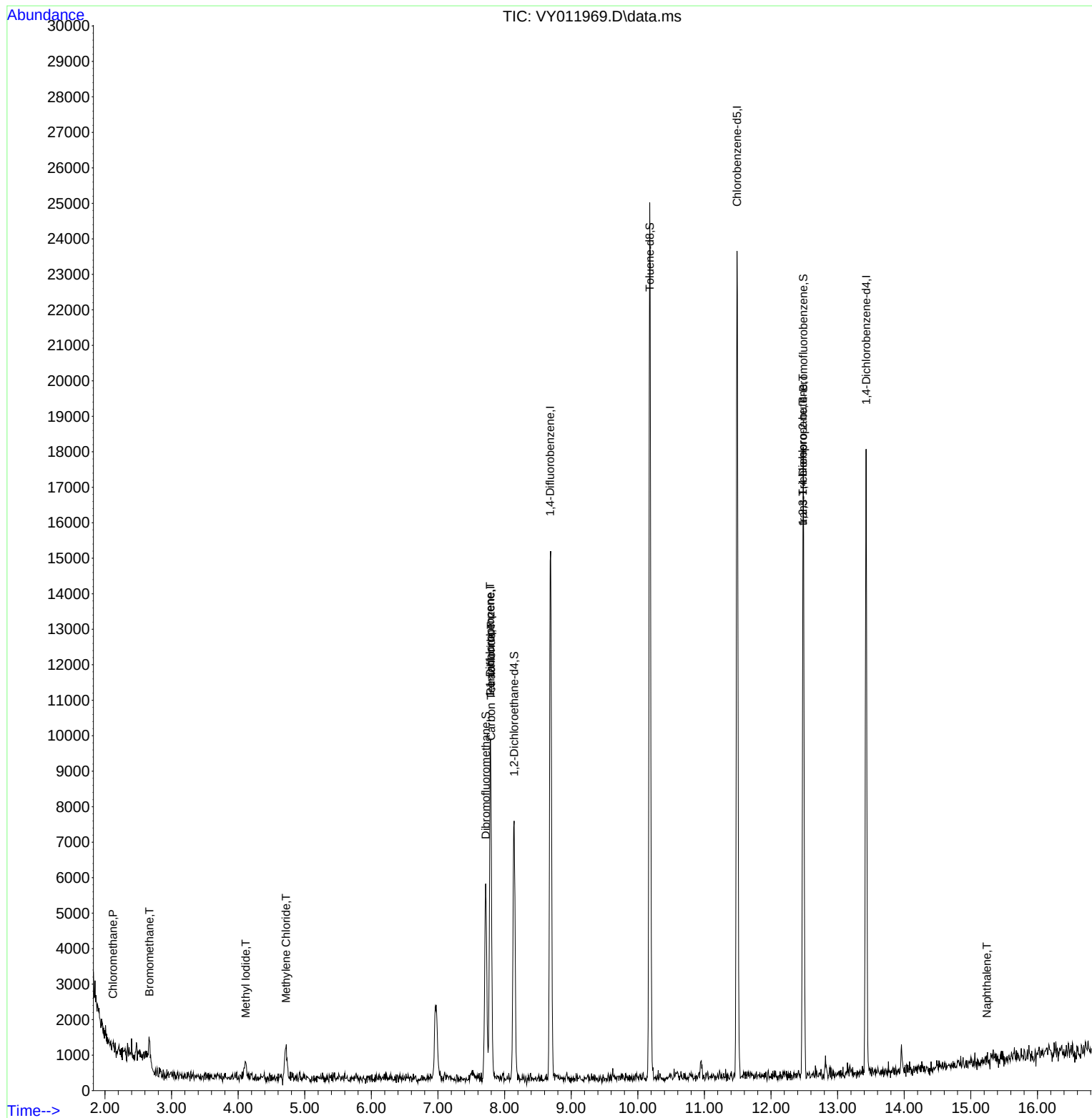
| Target Compounds              |        |     |      |         | Qvalue |     |
|-------------------------------|--------|-----|------|---------|--------|-----|
| 3) Chloromethane              | 2.119  | 50  | 177  | 2.536   | ug/l # | 41  |
| 5) Bromomethane               | 2.668  | 94  | 279  | 5.094   | ug/l   | 86  |
| 10) Methyl Iodide             | 4.113  | 142 | 767  | 7.473   | ug/l # | 90  |
| 20) Methylene Chloride        | 4.716  | 84  | 807  | 3.241   | ug/l # | 80  |
| 36) 1,1-Dichloropropene       | 7.783  | 75  | 562  | 4.062   | ug/l # | 41  |
| 38) Carbon Tetrachloride      | 7.795  | 117 | 766  | 4.793   | ug/l # | 14  |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75  | 2542 | 40.613  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75  | 2542 | 111.220 | ug/l # | 13  |
| 95) Naphthalene               | 15.239 | 128 | 167  | 3.630   | ug/l # | 69  |

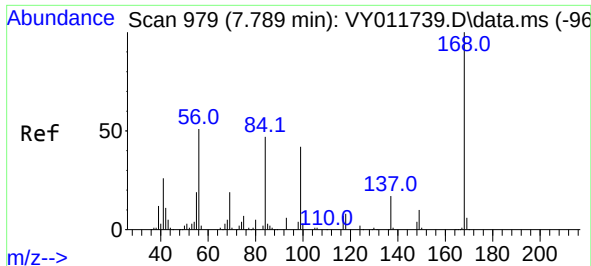
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

Quant Time: Dec 23 04:31:45 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 20 12:37:37 2022  
Response via : Initial Calibration

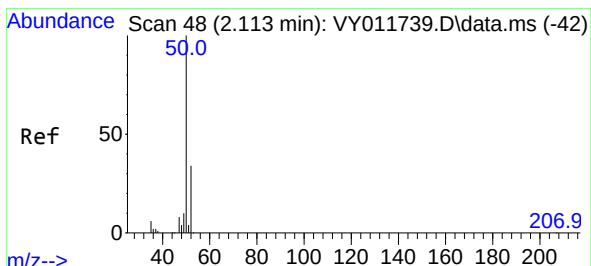
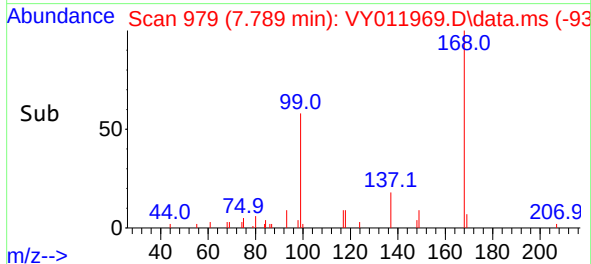
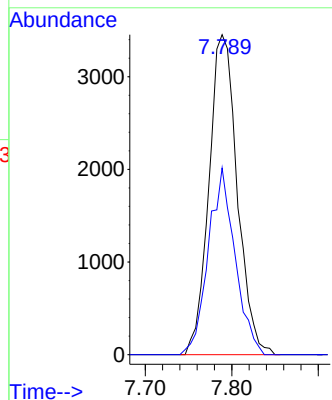
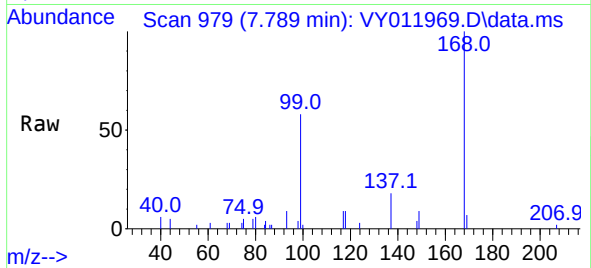




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

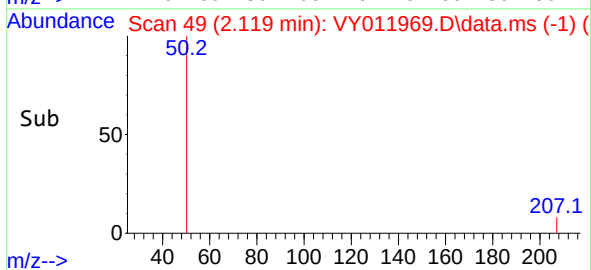
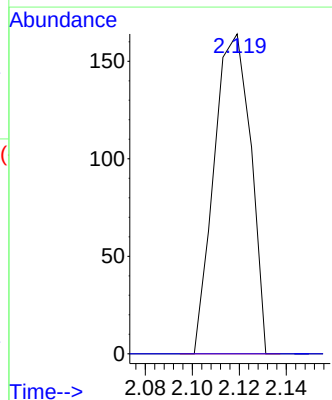
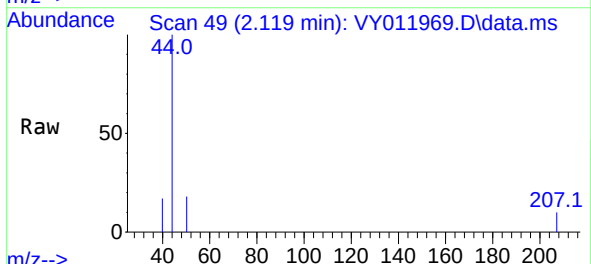
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

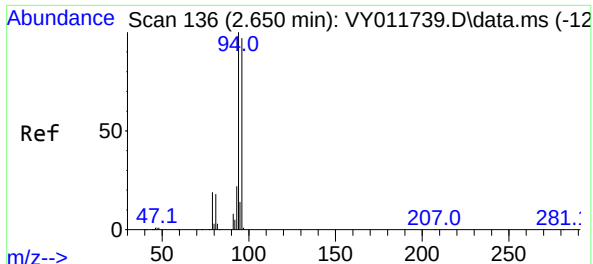
Tgt Ion:168 Resp: 7843  
Ion Ratio Lower Upper  
168 100  
99 58.4 44.0 66.0



#3  
Chloromethane  
Concen: 2.536 ug/l  
RT: 2.119 min Scan# 49  
Delta R.T. 0.006 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

Tgt Ion: 50 Resp: 177  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

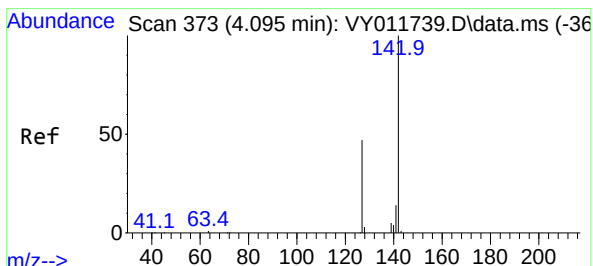
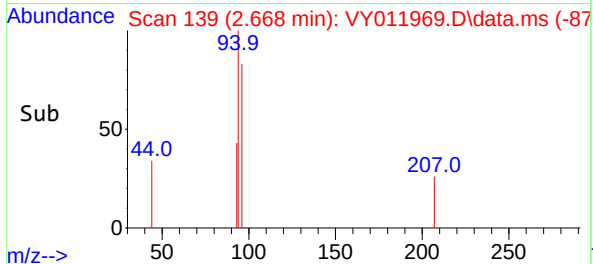
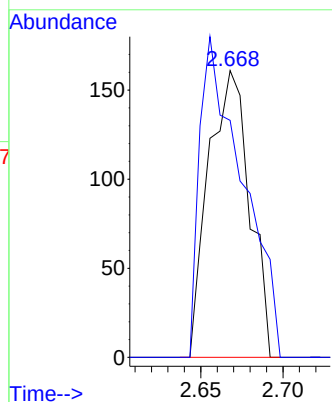
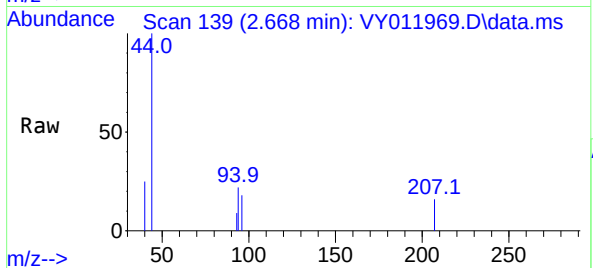




#5  
Bromomethane  
Concen: 5.094 ug/l  
RT: 2.668 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

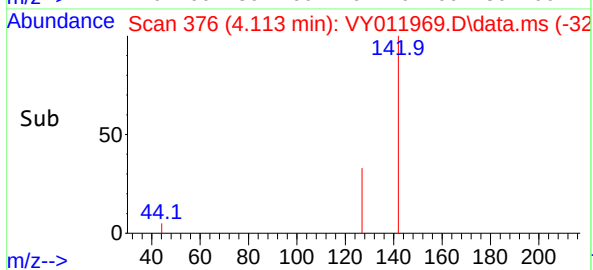
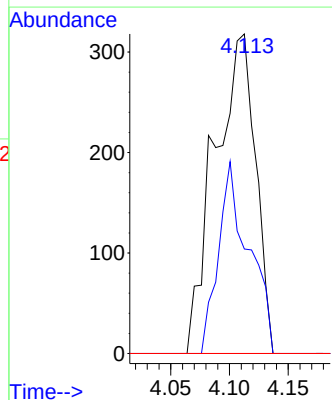
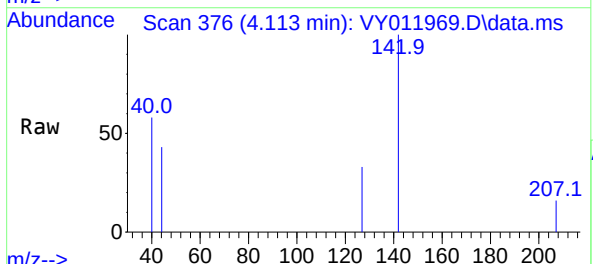
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

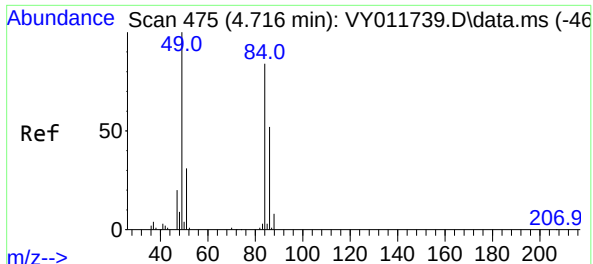
Tgt Ion: 94 Resp: 279  
Ion Ratio Lower Upper  
94 100  
96 82.6 77.4 116.2



#10  
Methyl Iodide  
Concen: 7.473 ug/l  
RT: 4.113 min Scan# 376  
Delta R.T. 0.018 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

Tgt Ion:142 Resp: 767  
Ion Ratio Lower Upper  
142 100  
127 44.7 37.0 55.4  
141 0.0 11.4 17.0#



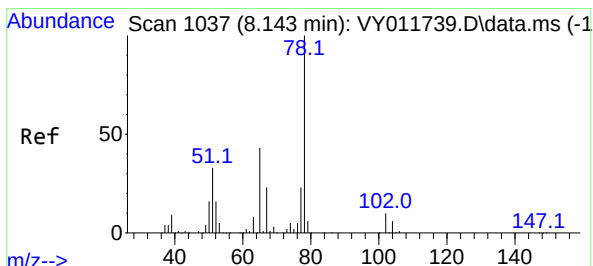
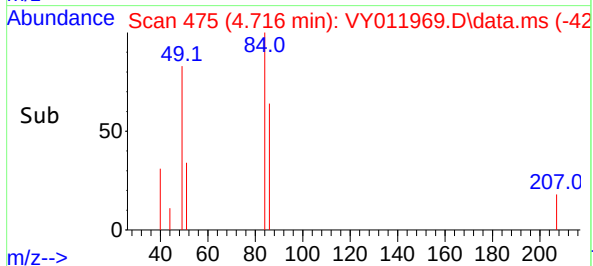
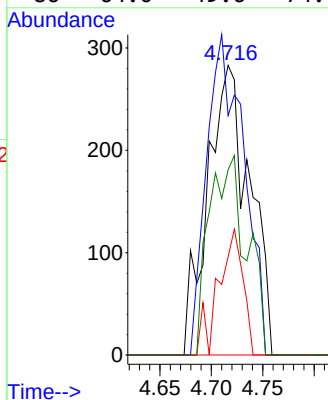
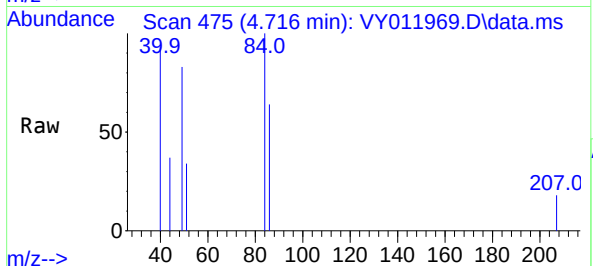


#20  
Methylene Chloride  
Concen: 3.241 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

Tgt Ion: 84 Resp: 807

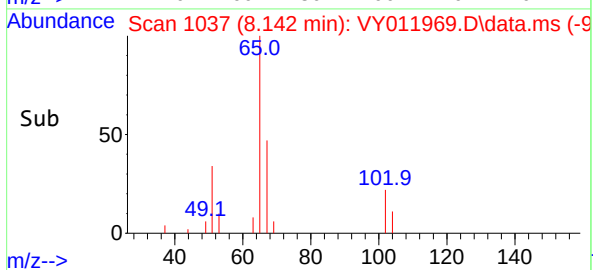
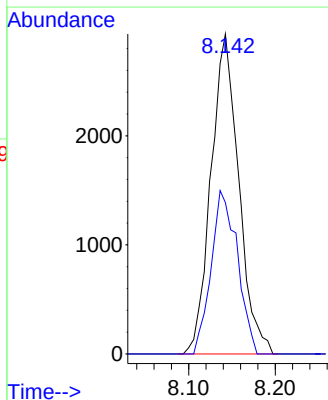
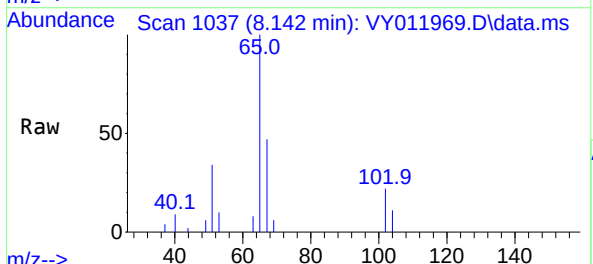
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 82.7  | 95.4  | 143.2# |
| 51  | 33.9  | 29.9  | 44.9   |
| 86  | 64.0  | 49.6  | 74.4   |

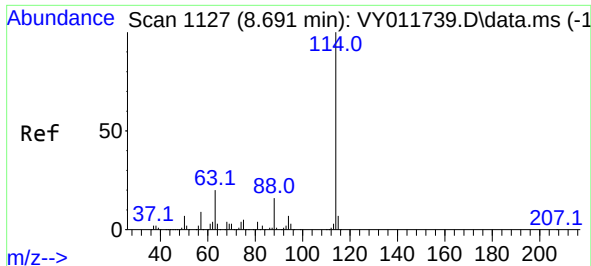


#33  
1,2-Dichloroethane-d4  
Concen: 82.628 ug/l  
RT: 8.142 min Scan# 1037  
Delta R.T. -0.001 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

Tgt Ion: 65 Resp: 6529

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 48.2  | 0.0   | 103.2 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY011969.D

Acq: 22 Dec 2022 13:04

Instrument :

MSVOA\_Y

ClientSampleId :

TR-06-122022

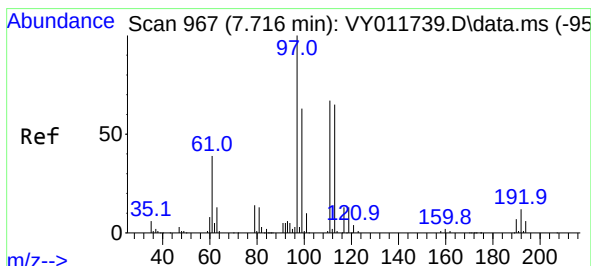
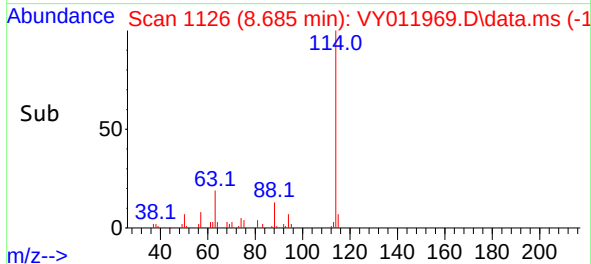
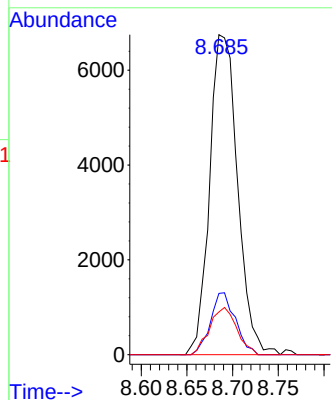
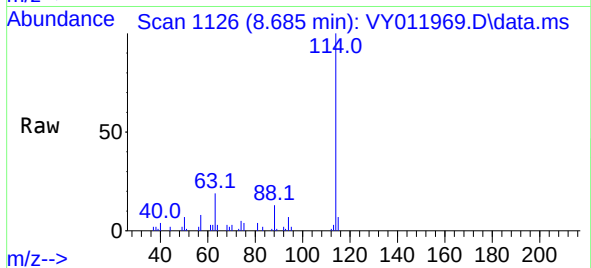
Tgt Ion:114 Resp: 14329

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 13.4 0.0 32.2



#35

Dibromofluoromethane

Concen: 44.630 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY011969.D

Acq: 22 Dec 2022 13:04

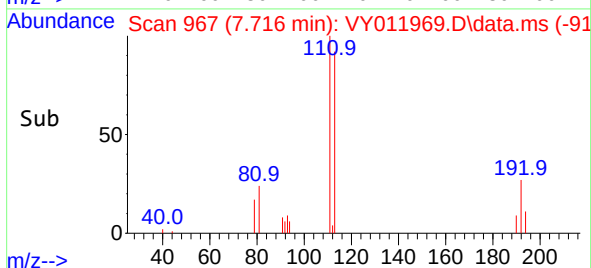
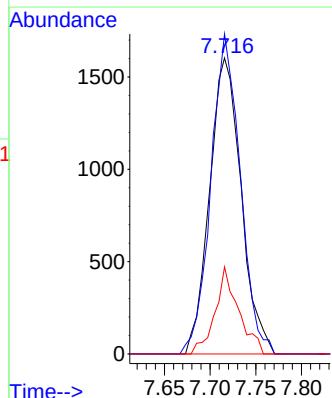
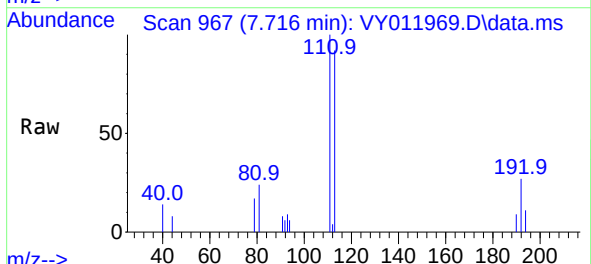
Tgt Ion:113 Resp: 3850

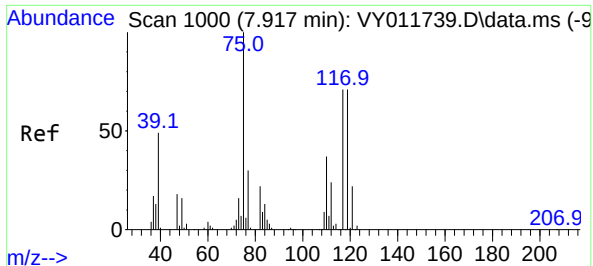
Ion Ratio Lower Upper

113 100

111 100.7 83.0 124.4

192 21.7 16.0 24.0





#36

1,1-Dichloropropene

Concen: 4.062 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY011969.D

Acq: 22 Dec 2022 13:04

Instrument :

MSVOA\_Y

ClientSampleId :

TR-06-122022

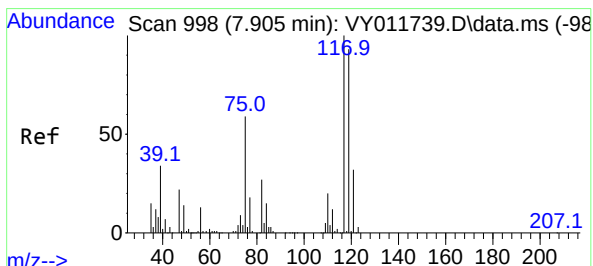
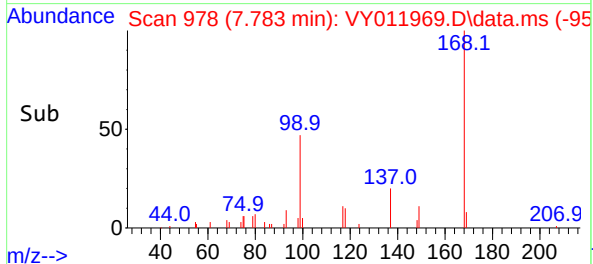
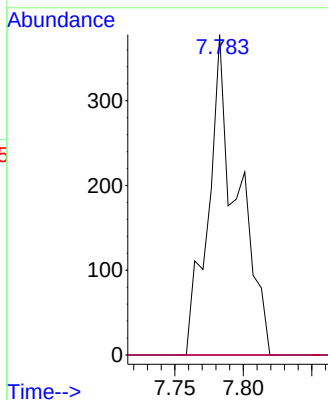
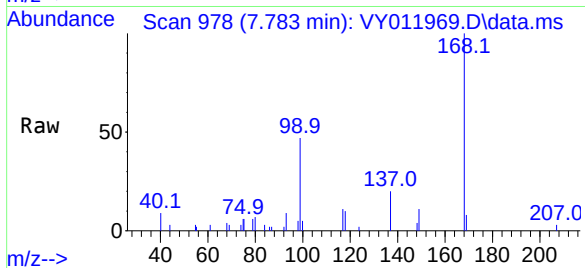
Tgt Ion: 75 Resp: 562

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 4.793 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.110 min

Lab File: VY011969.D

Acq: 22 Dec 2022 13:04

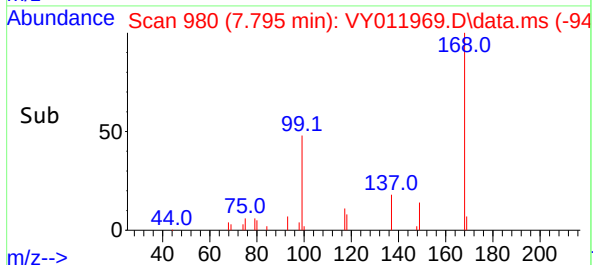
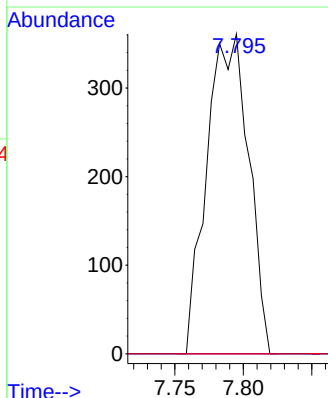
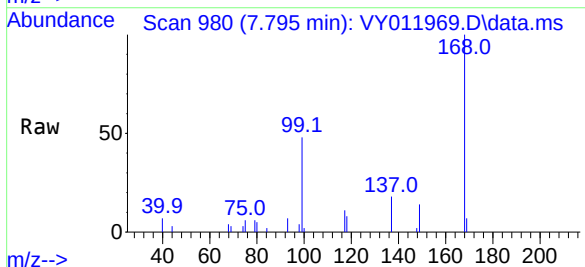
Tgt Ion: 117 Resp: 766

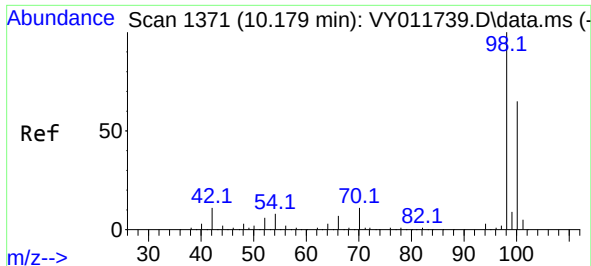
Ion Ratio Lower Upper

117 100

119 0.0 73.8 110.8#

121 0.0 25.2 37.8#

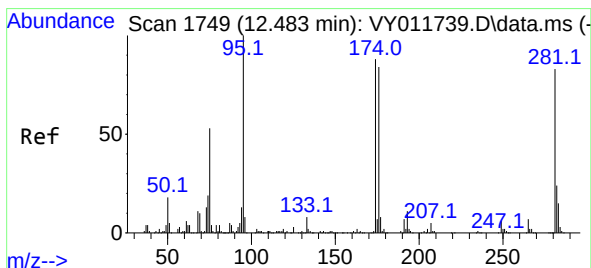
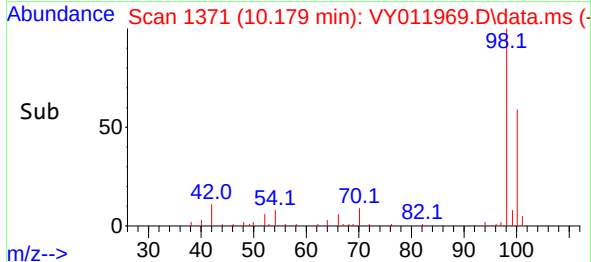
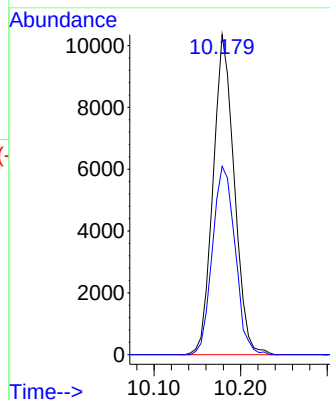
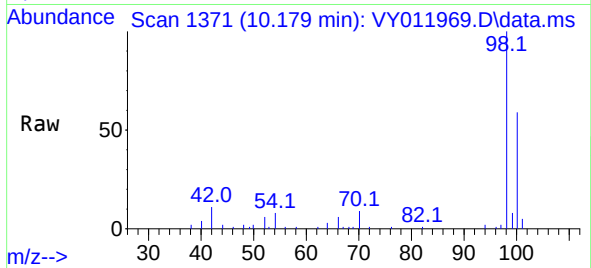




#50  
Toluene-d8  
Concen: 50.295 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

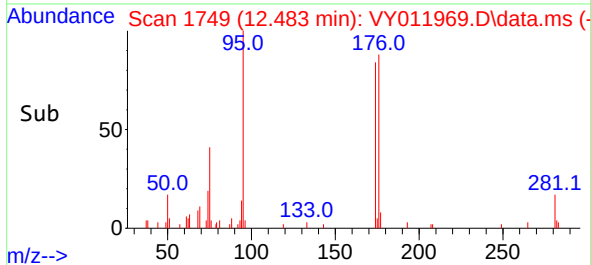
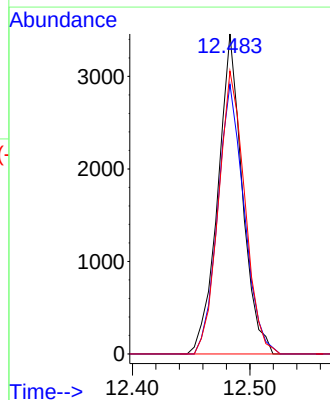
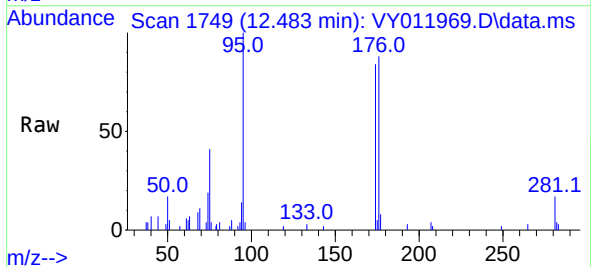
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

Tgt Ion: 98 Resp: 17603  
Ion Ratio Lower Upper  
98 100  
100 62.9 51.9 77.9

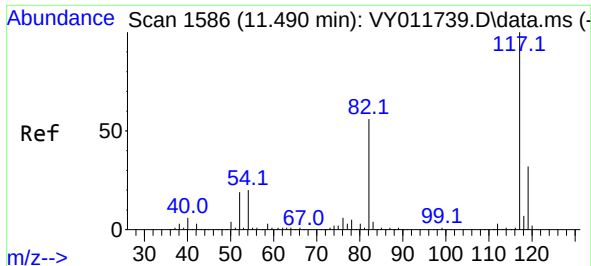


#62  
4-Bromofluorobenzene  
Concen: 42.477 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

Tgt Ion: 95 Resp: 5000  
Ion Ratio Lower Upper  
95 100  
174 90.8 0.0 172.0  
176 94.6 0.0 167.6



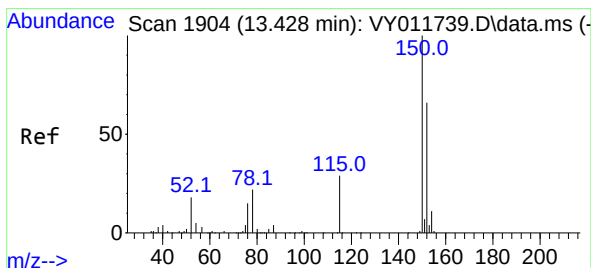
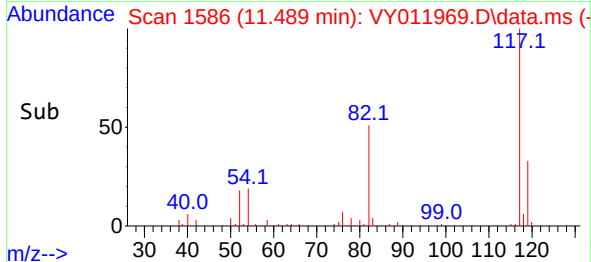
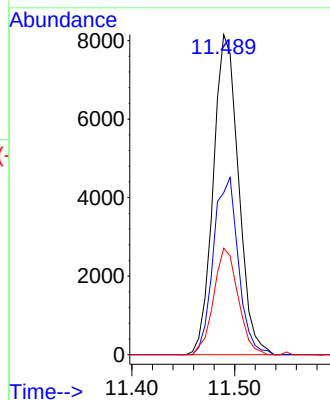
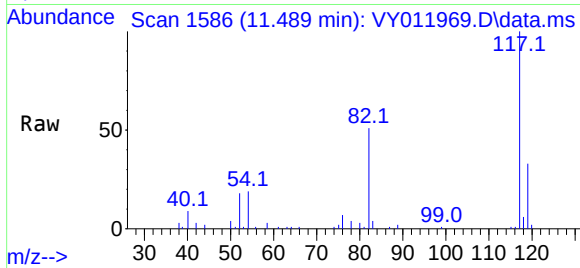




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1158  
Delta R.T. -0.000 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

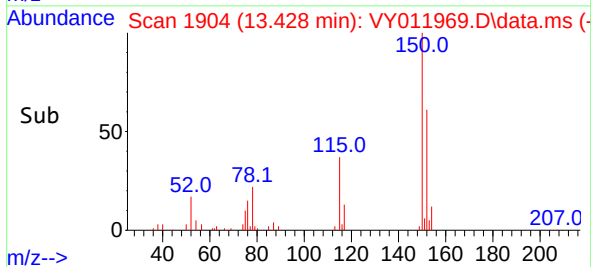
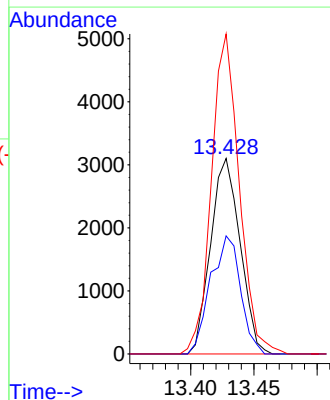
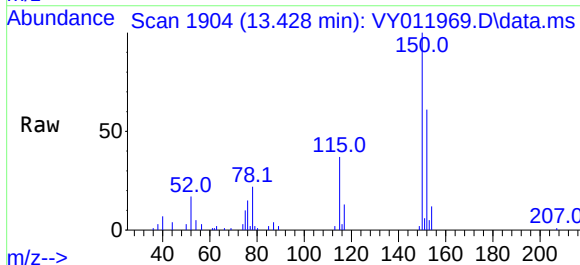
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

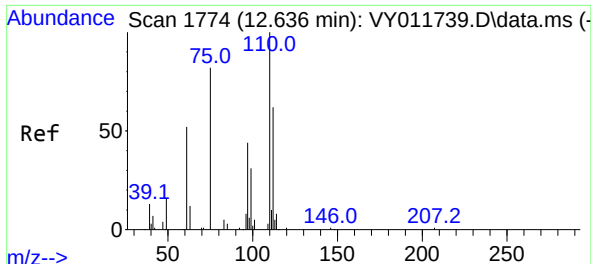
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 13900 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 50.6  | 44.8  | 67.2  |
| 119      | 33.3  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5030  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 61.1  | 29.1  | 87.3  |
| 150      | 154.5 | 0.0   | 342.6 |

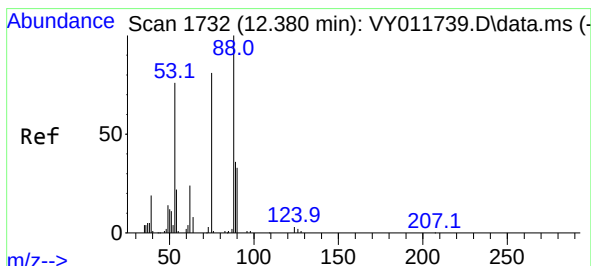
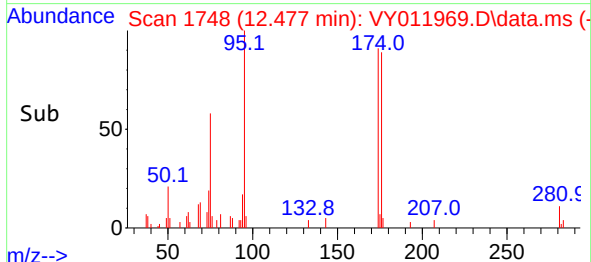
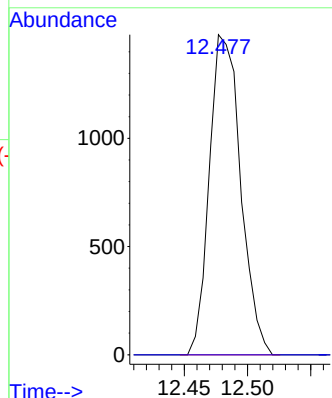
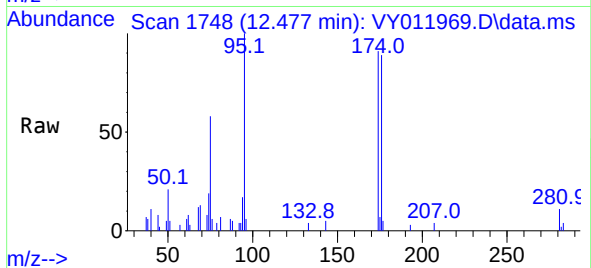




#76  
1,2,3-Trichloropropane  
Concen: 40.613 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.159 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

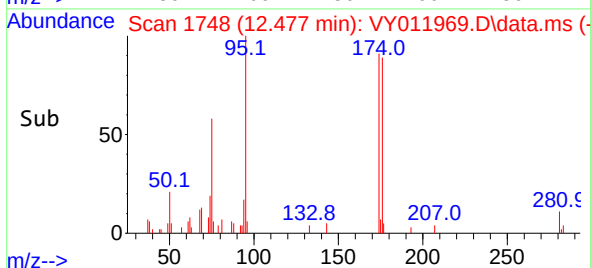
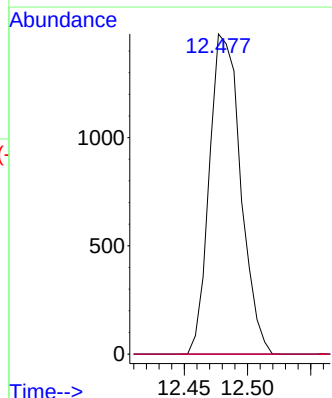
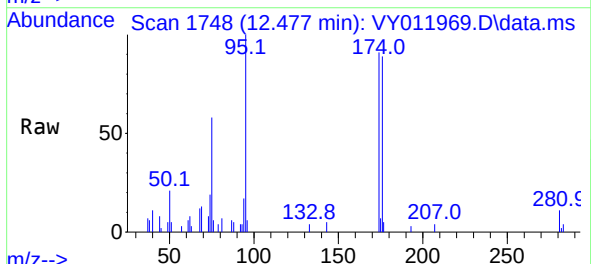
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-06-122022

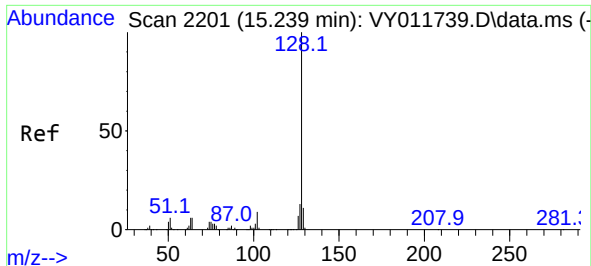
Tgt Ion: 75 Resp: 2542  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 111.220 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY011969.D  
Acq: 22 Dec 2022 13:04

Tgt Ion: 75 Resp: 2542  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.0 37.0 55.4#





#95

Naphthalene

Concen: 3.630 ug/l

RT: 15.239 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY011969.D

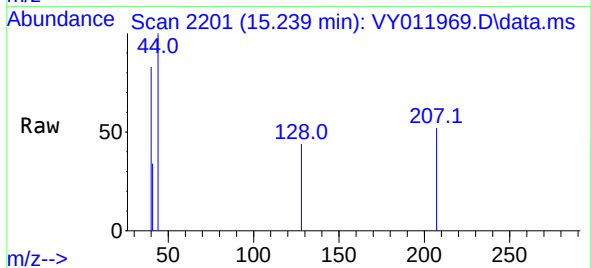
Acq: 22 Dec 2022 13:04

Instrument :

MSVOA\_Y

ClientSampleId :

TR-06-122022



Tgt Ion:128 Resp: 167

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#

