

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122223\  
 Data File : VY016836.D  
 Acq On : 23 Dec 2023 03:57  
 Operator : SY/MD  
 Sample : 05957-08  
 Misc : 4.56g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Dec 23 05:35:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 2023  
 Response via : Initial Calibration

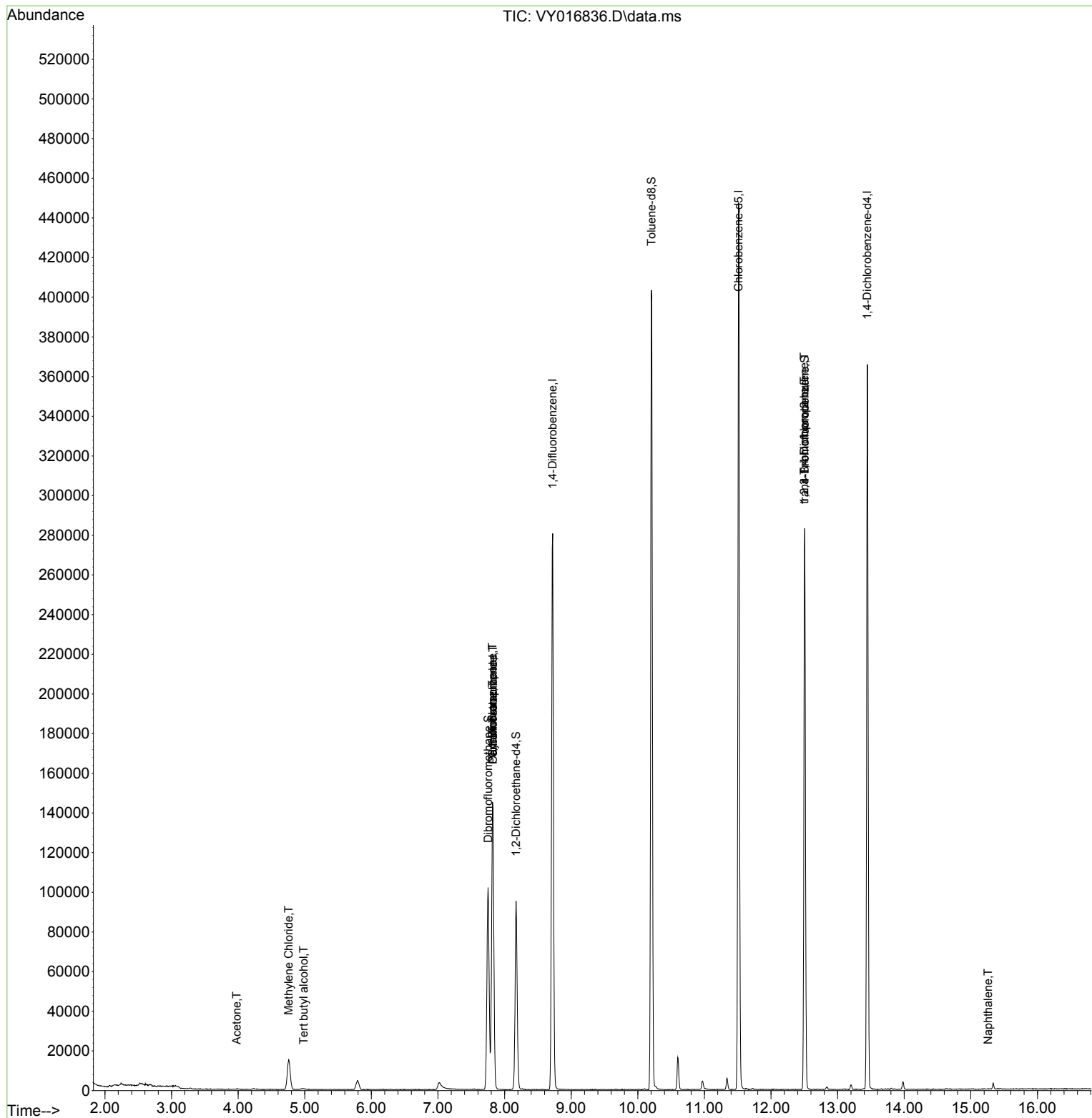
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.825  | 168            | 110178   | 50.000     | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene       | 8.722  | 114            | 240675   | 50.000     | ug/l   | 0.02     |
| 63) Chlorobenzene-d5          | 11.514 | 117            | 241142   | 50.000     | ug/l   | 0.01     |
| 72) 1,4-Dichlorobenzene-d4    | 13.446 | 152            | 90219    | 50.000     | ug/l   | 0.01     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.173  | 65             | 70619    | 70.211     | ug/l   | 0.02     |
| Spiked Amount                 | 50.000 | Range 50 - 163 | Recovery | = 140.420% |        |          |
| 35) Dibromofluoromethane      | 7.752  | 113            | 73699    | 53.458     | ug/l   | 0.02     |
| Spiked Amount                 | 50.000 | Range 54 - 147 | Recovery | = 106.920% |        |          |
| 50) Toluene-d8                | 10.203 | 98             | 267207   | 53.765     | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range 58 - 134 | Recovery | = 107.540% |        |          |
| 62) 4-Bromofluorobenzene      | 12.508 | 95             | 86322    | 53.537     | ug/l   | 0.02     |
| Spiked Amount                 | 50.000 | Range 30 - 143 | Recovery | = 107.080% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 4.984  | 59             | 541      | 6.560      | ug/l # | 75       |
| 16) Acetone                   | 3.979  | 43             | 403      | 1.482      | ug/l   | 96       |
| 20) Methylene Chloride        | 4.759  | 84             | 11622    | 5.610      | ug/l   | 95       |
| 31) Cyclohexane               | 7.819  | 56             | 2615     | 1.357      | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 7.819  | 75             | 9629     | 4.357      | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.825  | 117            | 11442    | 5.232      | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.501 | 75             | 45750    | 45.873     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.501 | 75             | 45750    | 107.729    | ug/l # | 12       |
| 95) Naphthalene               | 15.257 | 128            | 342      | 3.703      | ug/l # | 69       |
| -----                         |        |                |          |            |        |          |

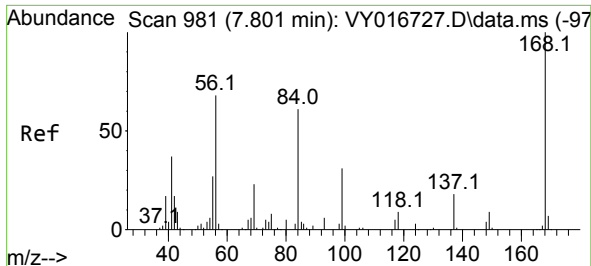
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Dec 23 05:35:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 21 01:49:45 2023  
Response via : Initial Calibration

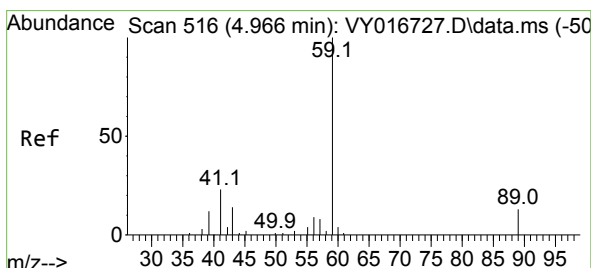
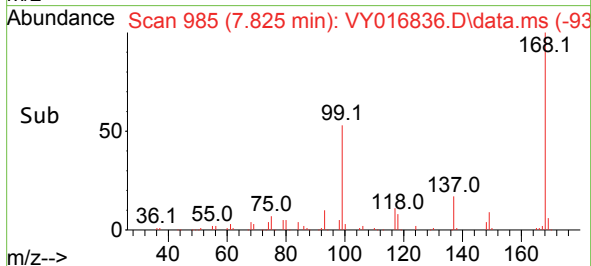
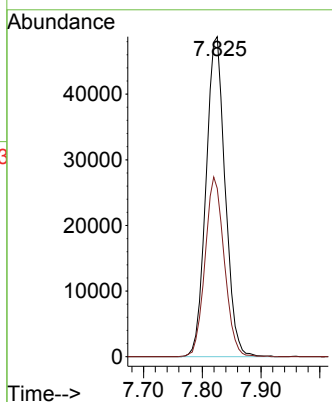
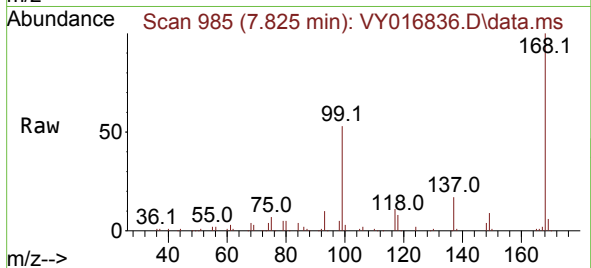




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.825 min Scan# 91  
Delta R.T. 0.024 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

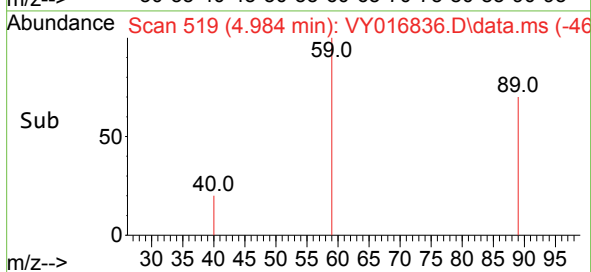
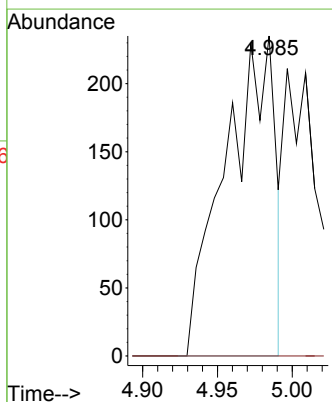
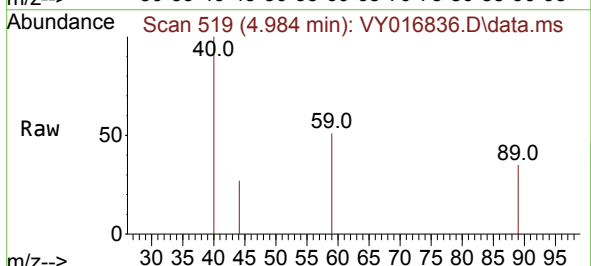
Instrument :  
MSVOA\_Y  
ClientSampleId :

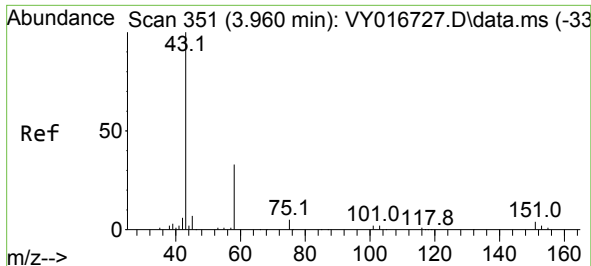
Tgt Ion:168 Resp: 110178  
Ion Ratio Lower Upper  
168 100  
99 52.6 44.2 66.4



#11  
Tert butyl alcohol  
Concen: 6.560 ug/l  
RT: 4.984 min Scan# 519  
Delta R.T. 0.018 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

Tgt Ion: 59 Resp: 541  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.0#

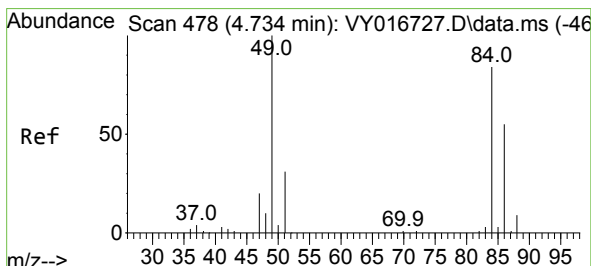
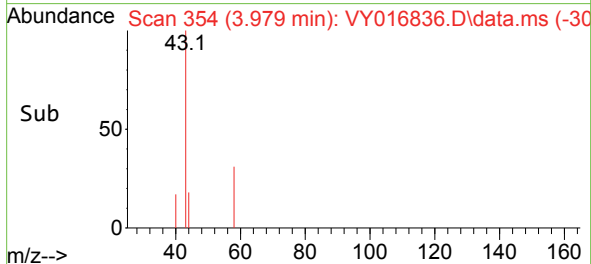
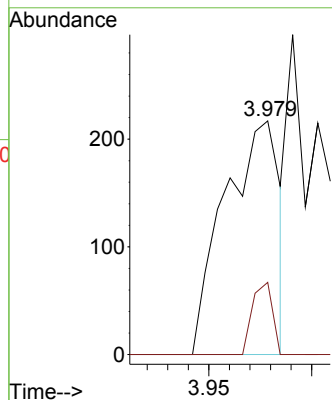
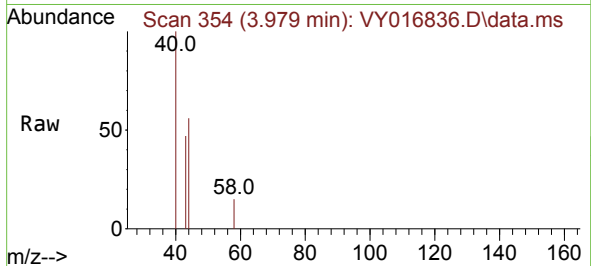




#16  
Acetone  
Concen: 1.482 ug/l  
RT: 3.979 min Scan# 316  
Delta R.T. 0.019 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

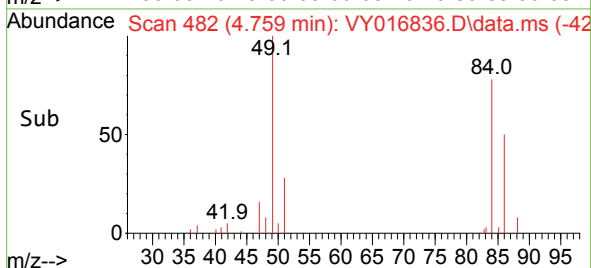
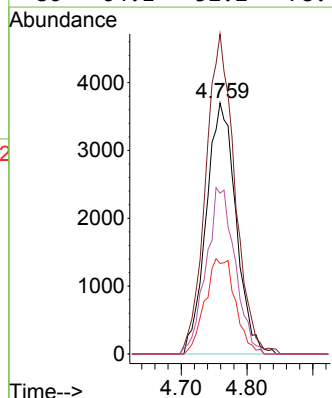
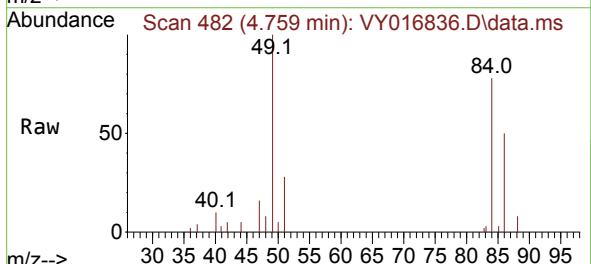
Instrument :  
MSVOA\_Y  
ClientSampleId :

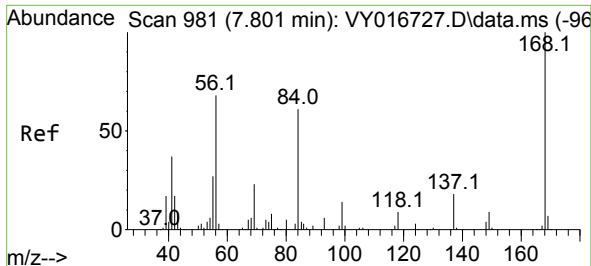
Tgt Ion: 43 Resp: 403  
Ion Ratio Lower Upper  
43 100  
58 30.9 26.6 39.8



#20  
Methylene Chloride  
Concen: 5.610 ug/l  
RT: 4.759 min Scan# 482  
Delta R.T. 0.025 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

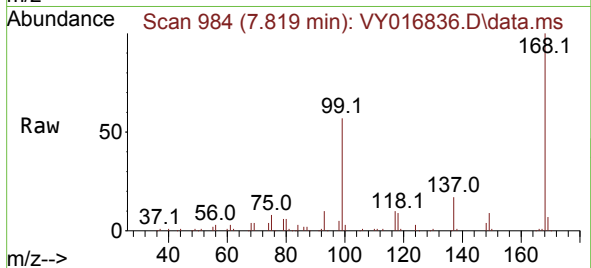
Tgt Ion: 84 Resp: 11622  
Ion Ratio Lower Upper  
84 100  
49 127.5 95.2 142.8  
51 36.1 29.9 44.9  
86 64.1 52.2 78.4



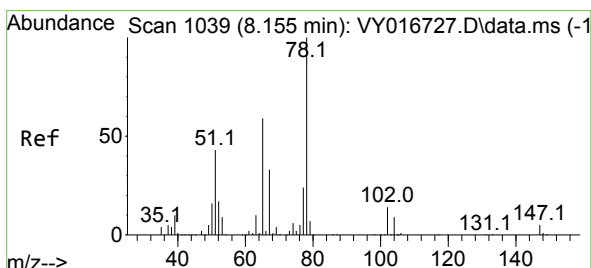
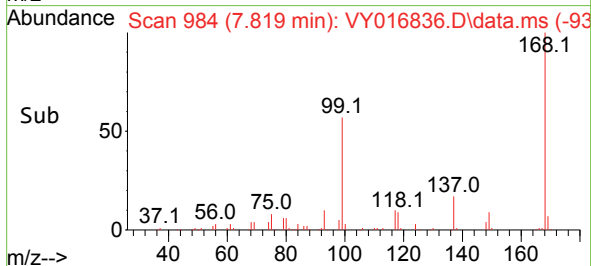
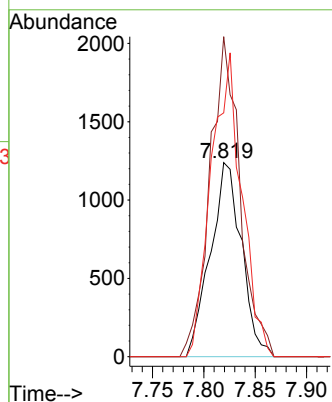


#31  
Cyclohexane  
Concen: 1.357 ug/l  
RT: 7.819 min Scan# 91  
Delta R.T. 0.018 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

Instrument :  
MSVOA\_Y  
ClientSampleId :

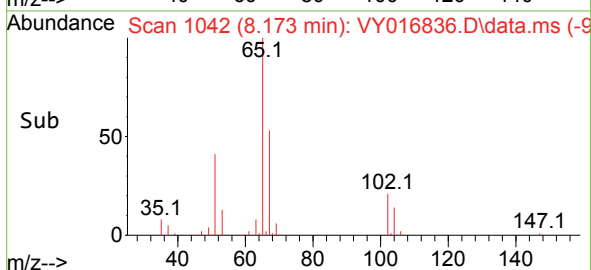
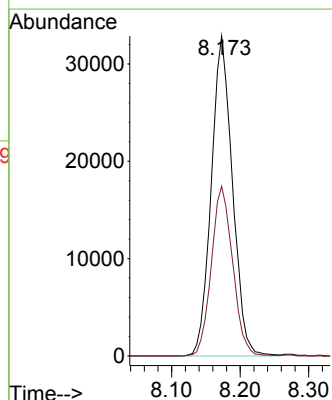
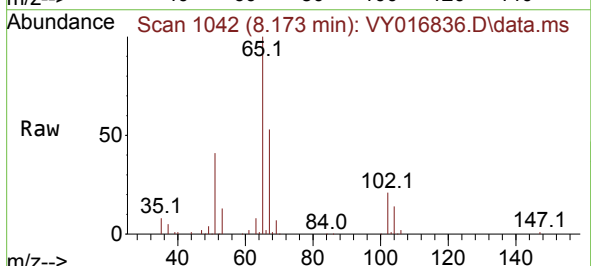


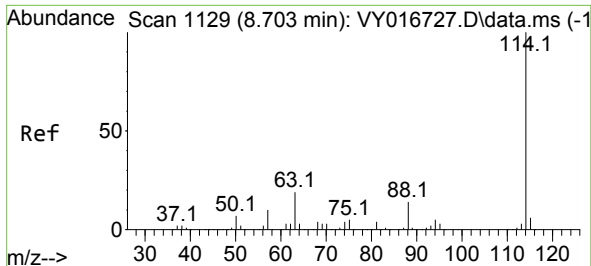
Tgt Ion: 56 Resp: 2615  
Ion Ratio Lower Upper  
56 100  
69 164.9 27.0 40.6#  
84 125.7 71.8 107.6#



#33  
1,2-Dichloroethane-d4  
Concen: 70.211 ug/l  
RT: 8.173 min Scan# 1042  
Delta R.T. 0.018 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

Tgt Ion: 65 Resp: 70619  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.722 min Scan# 1129

Delta R.T. 0.019 min

Lab File: VY016836.D

Acq: 23 Dec 2023 03:57

Instrument :

MSVOA\_Y

ClientSampleId :

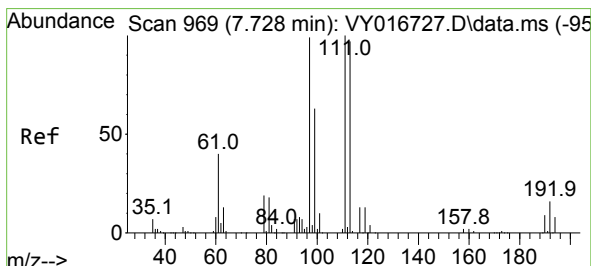
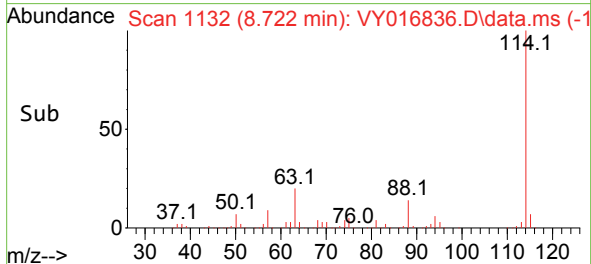
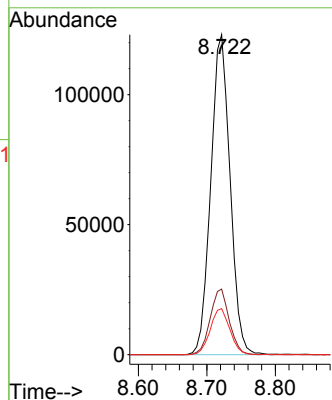
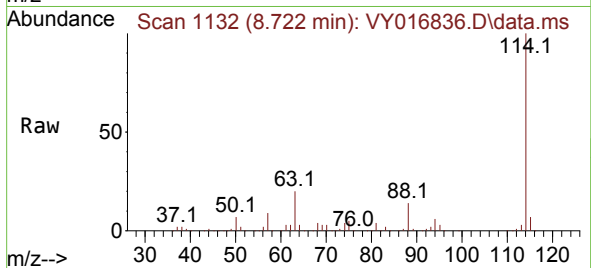
Tgt Ion:114 Resp: 240675

Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.4

88 14.4 0.0 29.0



#35

Dibromofluoromethane

Concen: 53.458 ug/l

RT: 7.752 min Scan# 973

Delta R.T. 0.025 min

Lab File: VY016836.D

Acq: 23 Dec 2023 03:57

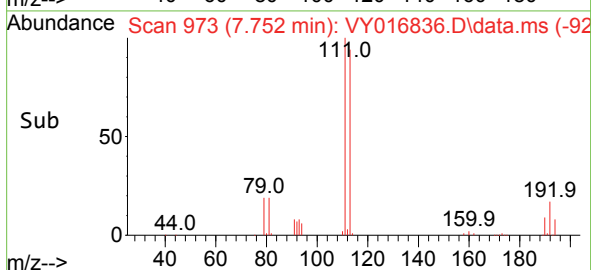
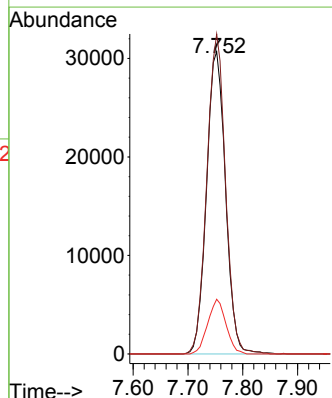
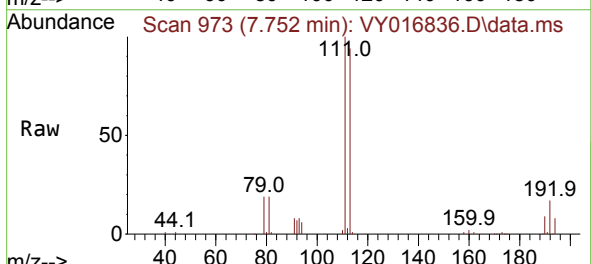
Tgt Ion:113 Resp: 73699

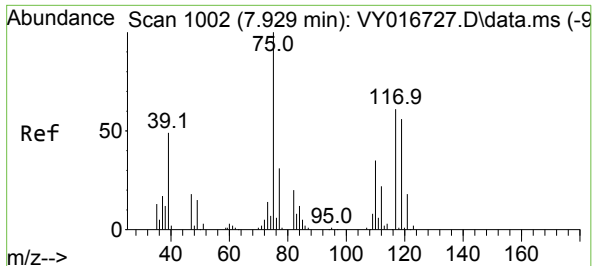
Ion Ratio Lower Upper

113 100

111 104.0 83.8 125.6

192 17.4 14.5 21.7

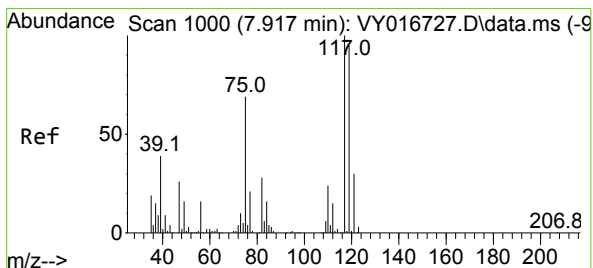
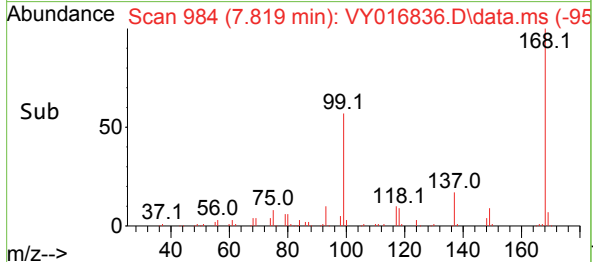
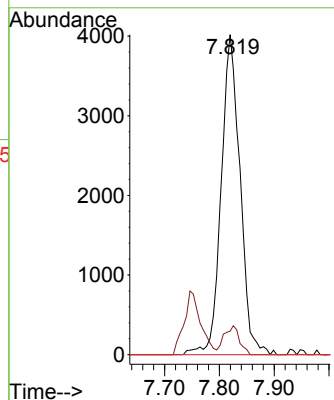
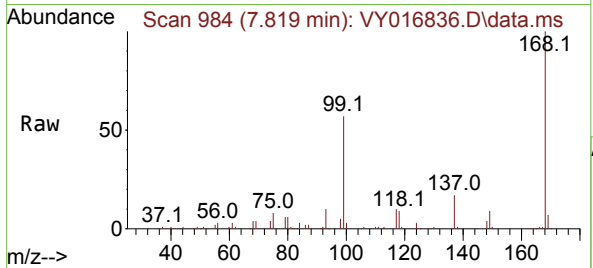




#36  
1,1-Dichloropropene  
Concen: 4.357 ug/l  
RT: 7.819 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

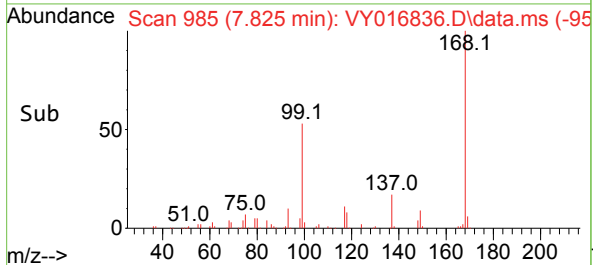
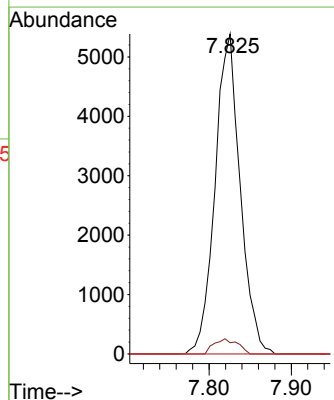
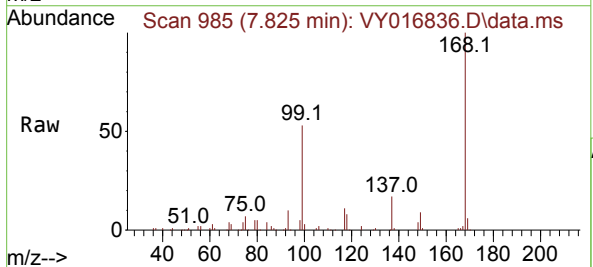
Instrument :  
MSVOA\_Y  
ClientSampleId :

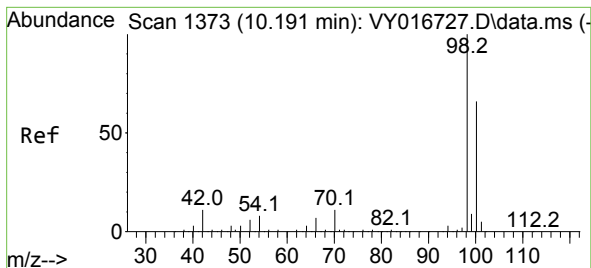
Tgt Ion: 75 Resp: 9629  
Ion Ratio Lower Upper  
75 100  
110 7.3 17.4 52.3#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.232 ug/l  
RT: 7.825 min Scan# 985  
Delta R.T. -0.091 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

Tgt Ion: 117 Resp: 11442  
Ion Ratio Lower Upper  
117 100  
119 3.5 76.0 114.0#  
121 0.0 24.2 36.2#





#50

Toluene-d8

Concen: 53.765 ug/l

RT: 10.203 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY016836.D

Acq: 23 Dec 2023 03:57

Instrument :

MSVOA\_Y

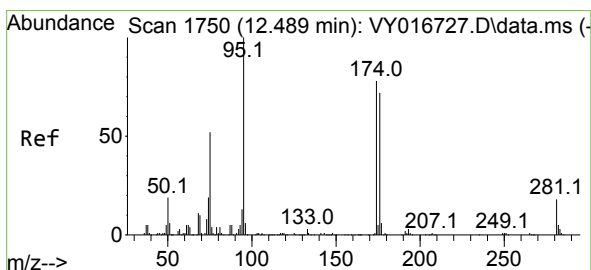
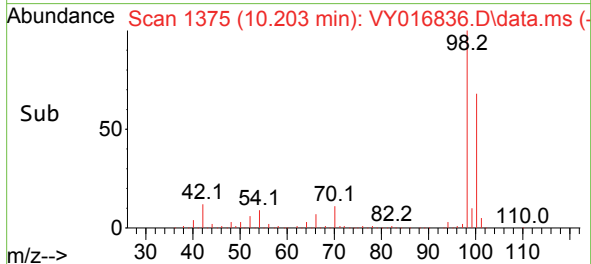
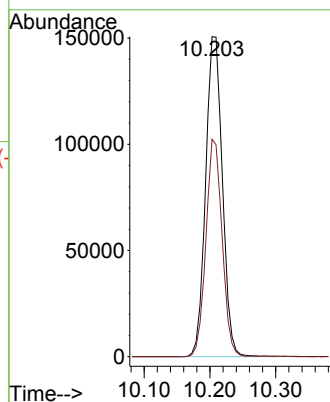
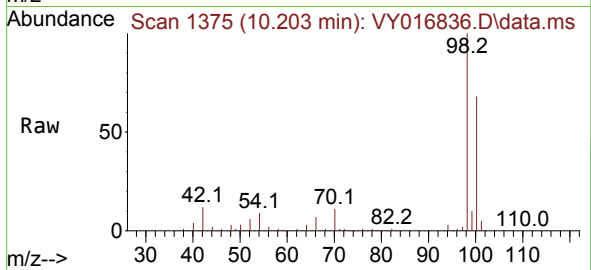
ClientSampleId :

Tgt Ion: 98 Resp: 267207

Ion Ratio Lower Upper

98 100

100 65.8 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 53.537 ug/l

RT: 12.508 min Scan# 1753

Delta R.T. 0.018 min

Lab File: VY016836.D

Acq: 23 Dec 2023 03:57

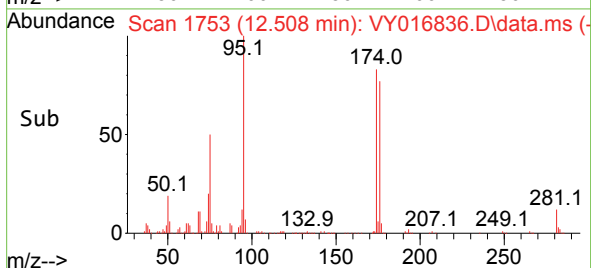
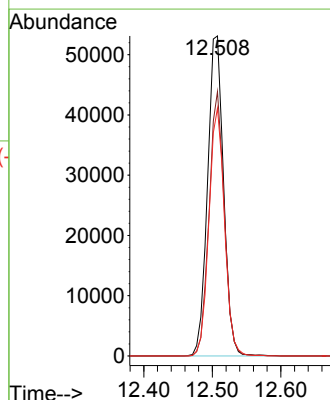
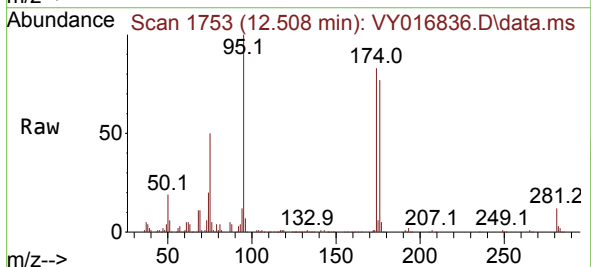
Tgt Ion: 95 Resp: 86322

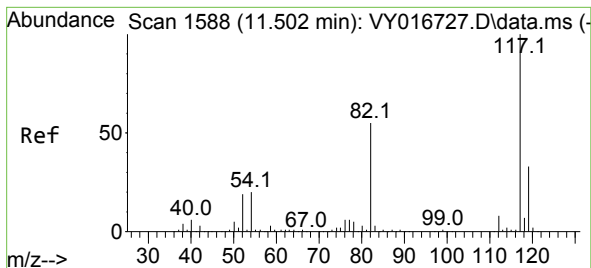
Ion Ratio Lower Upper

95 100

174 79.1 0.0 160.0

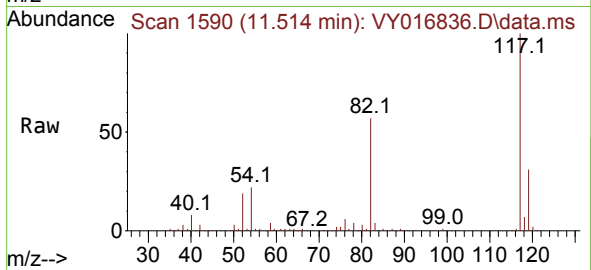
176 75.3 0.0 151.8



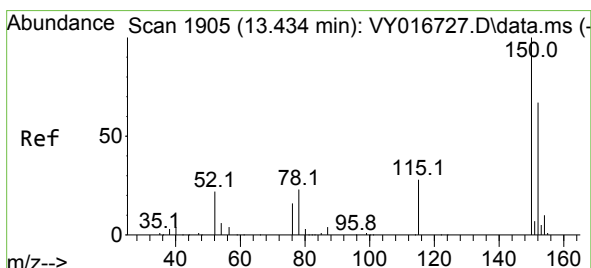
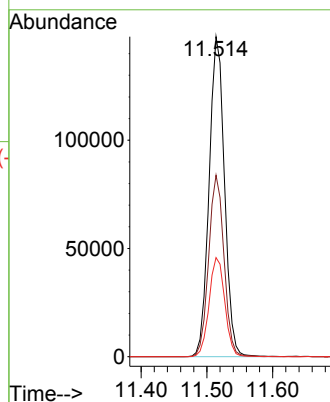
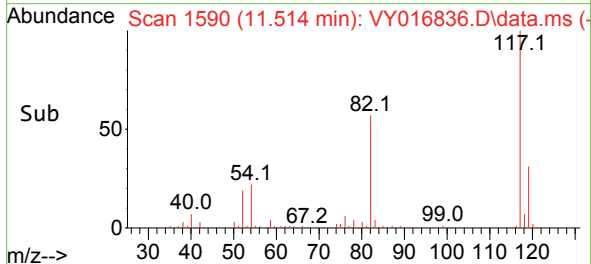


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.514 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

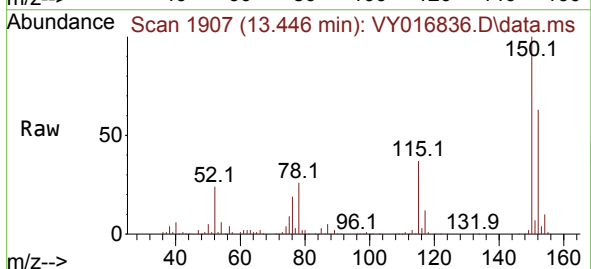
Instrument :  
MSVOA\_Y  
ClientSampleId :



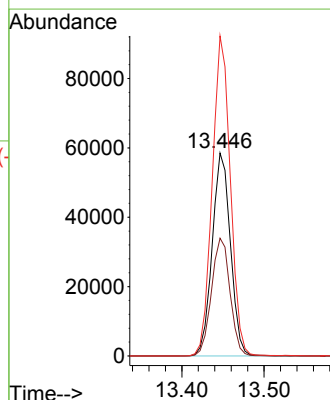
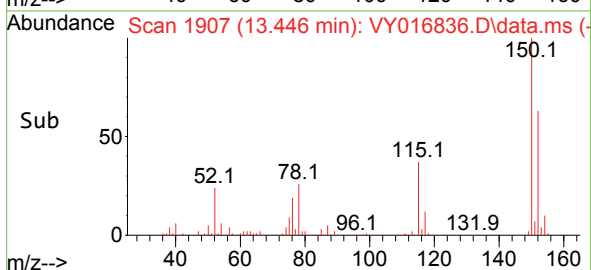
Tgt Ion:117 Resp: 241142  
Ion Ratio Lower Upper  
117 100  
82 56.7 43.8 65.8  
119 30.9 26.5 39.7

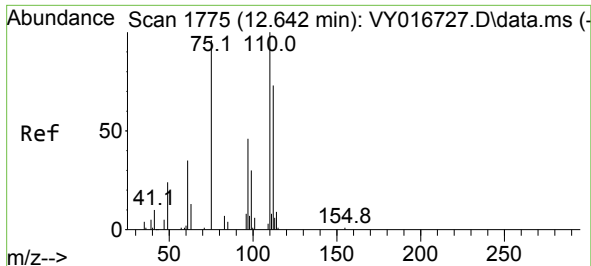


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.446 min Scan# 1907  
Delta R.T. 0.012 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57



Tgt Ion:152 Resp: 90219  
Ion Ratio Lower Upper  
152 100  
115 58.9 30.0 90.0  
150 156.3 0.0 344.6

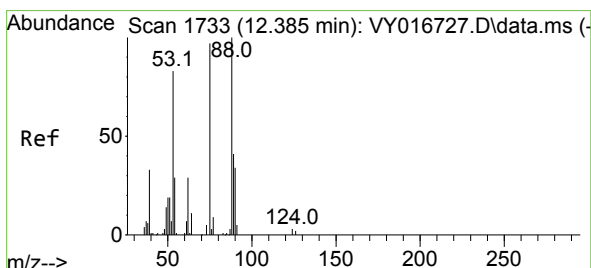
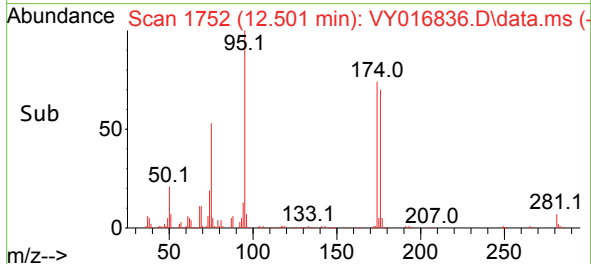
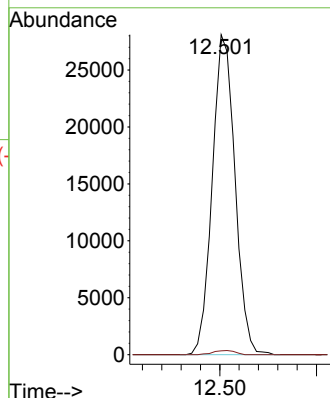
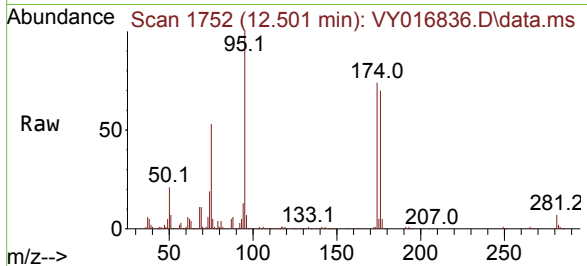




#76  
1,2,3-Trichloropropane  
Concen: 45.873 ug/l  
RT: 12.501 min Scan# 1752  
Delta R.T. -0.140 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

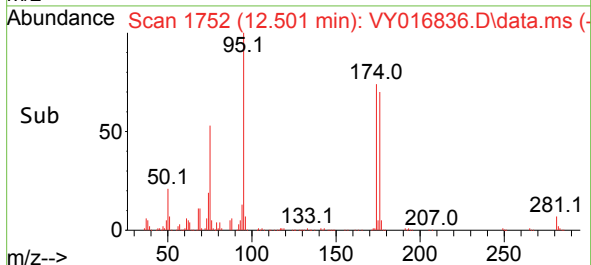
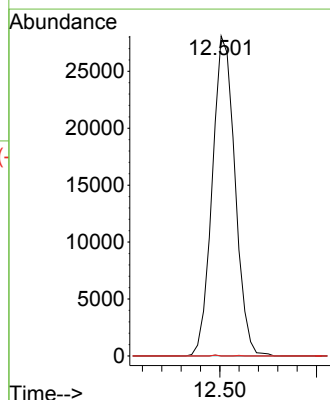
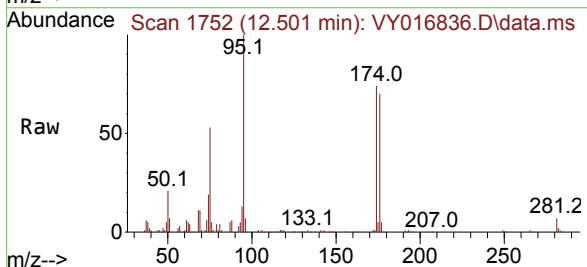
Instrument :  
MSVOA\_Y  
ClientSampleId :

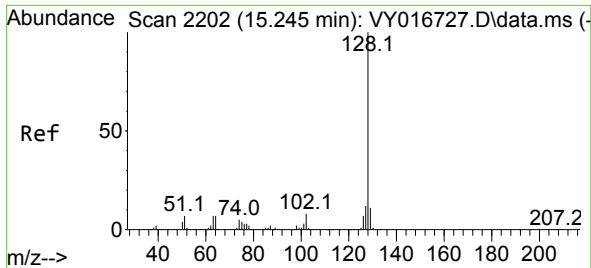
Tgt Ion: 75 Resp: 45750  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.729 ug/l  
RT: 12.501 min Scan# 1752  
Delta R.T. 0.116 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

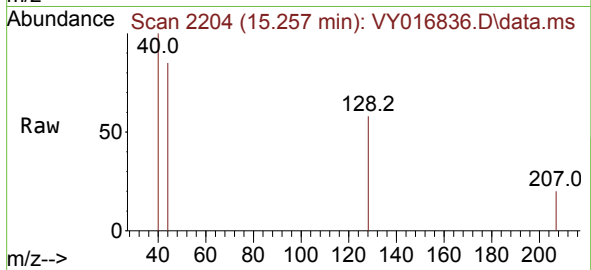
Tgt Ion: 75 Resp: 45750  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.0 111.0#  
89 0.1 36.5 54.7#





#95  
Naphthalene  
Concen: 3.703 ug/l  
RT: 15.257 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VY016836.D  
Acq: 23 Dec 2023 03:57

Instrument :  
MSVOA\_Y  
ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.2  | 15.4# |
| 129     | 0.0   | 8.6   | 12.8# |

