

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072023\  
 Data File : VY014729.D  
 Acq On : 20 Jul 2023 18:26  
 Operator : SY/MD  
 Sample : 03681-05  
 Misc : 5.44g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RTP-2-GRAB-1

Quant Time: Jul 21 01:34:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

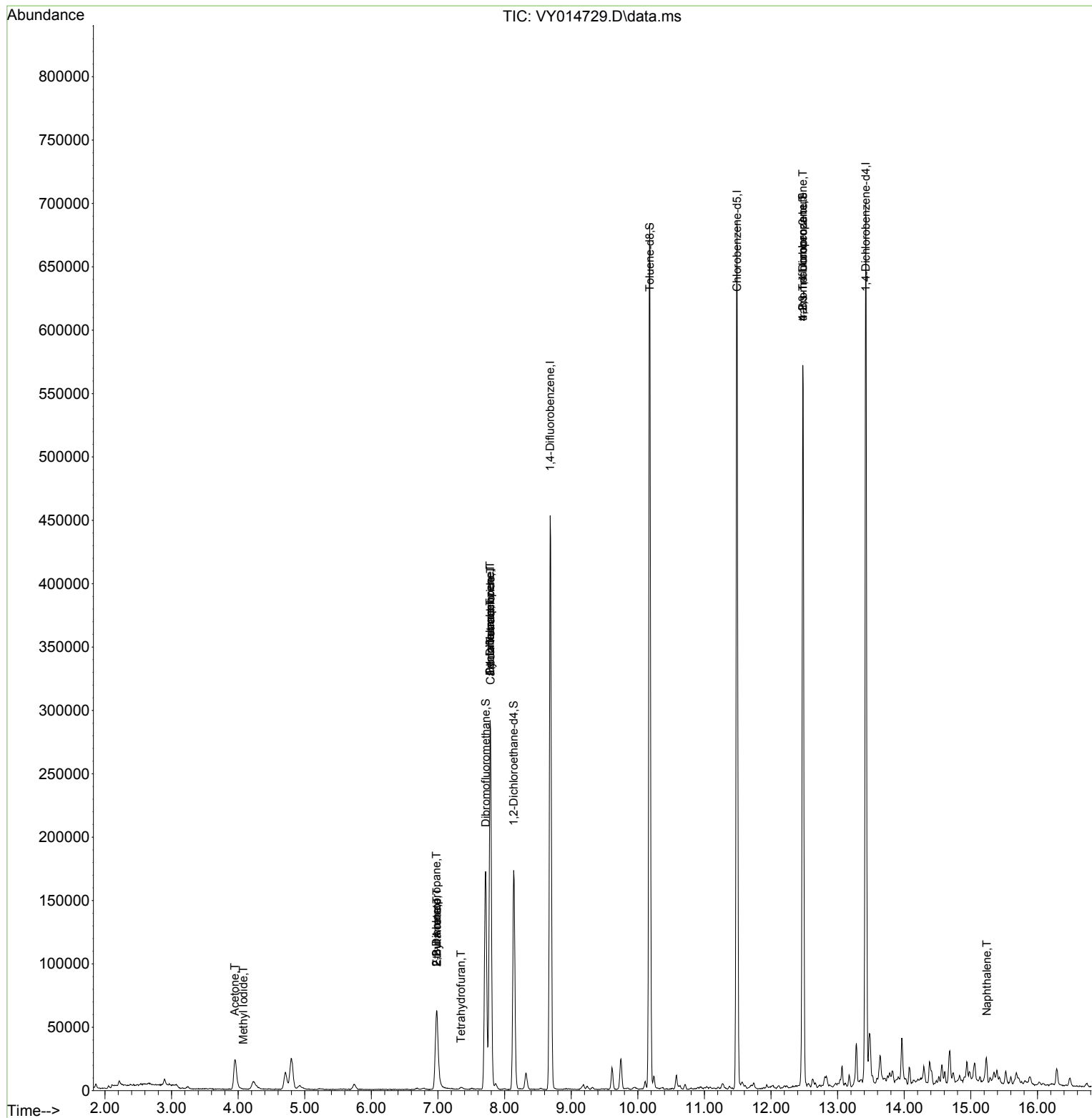
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.782  | 168   | 231978   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 395626   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 373113   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 179328   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 135871   | 51.399    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 102.800% |
| 35) Dibromofluoromethane      | 7.715  | 113   | 123820   | 49.165    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 98.320%  |
| 50) Toluene-d8                | 10.178 | 98    | 460999   | 49.650    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 99.300%  |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 177432   | 49.837    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 99.680%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 10) Methyl Iodide             | 4.076  | 142   | 117      | 2.412     | ug/l # | 38       |
| 11) Tert butyl alcohol        | 4.929  | 59    | 4189     | Below Cal | #      | 89       |
| 16) Acetone                   | 3.948  | 43    | 47475    | 56.674    | ug/l   | 97       |
| 20) Methylene Chloride        | 4.710  | 84    | 9797     | Below Cal |        | 88       |
| 25) 2-Butanone                | 6.984  | 43    | 5623     | 4.588     | ug/l   | 92       |
| 26) 2,2-Dichloropropane       | 6.978  | 77    | 4821     | 1.072     | ug/l # | 54       |
| 29) Tetrahydrofuran           | 7.344  | 42    | 1354     | 1.794     | ug/l # | 73       |
| 31) Cyclohexane               | 7.782  | 56    | 4768     | 1.087     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.782  | 75    | 17797    | 4.725     | ug/l # | 49       |
| 37) Ethyl Acetate             | 6.984  | 43    | 5623     | 2.168     | ug/l # | 28       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 22574    | 5.670     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 89962    | 39.721    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 89962    | 76.906    | ug/l # | 11       |
| 95) Naphthalene               | 15.238 | 128   | 14149    | 1.674     | ug/l # | 96       |
| -----                         |        |       |          |           |        |          |

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

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Sample : 03681-05  
Misc : 5.44g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

Quant Time: Jul 21 01:34:33 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 14 02:09:50 2023  
Response via : Initial Calibration

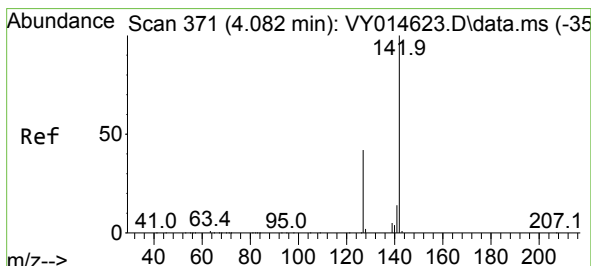
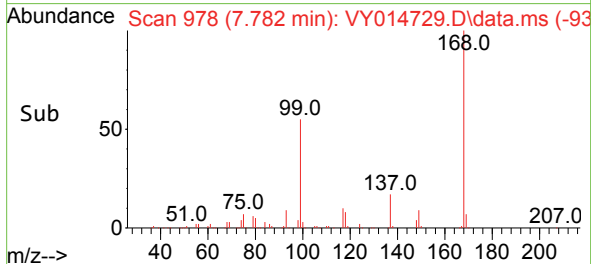
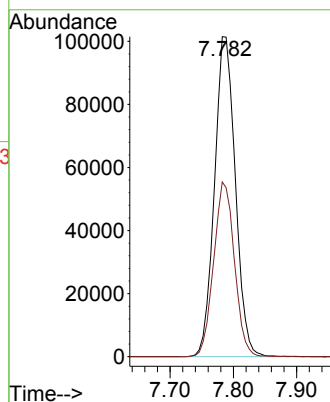
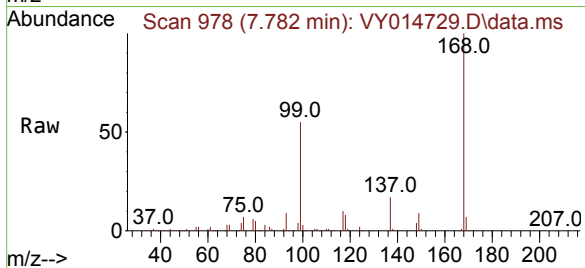




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.782 min Scan# 91  
Delta R.T. -0.007 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

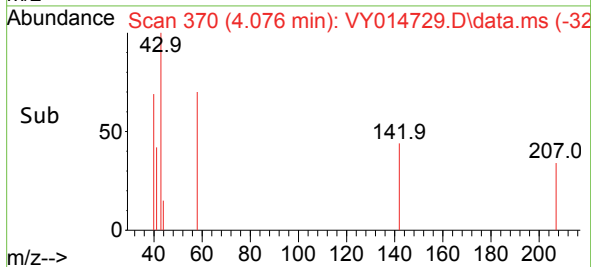
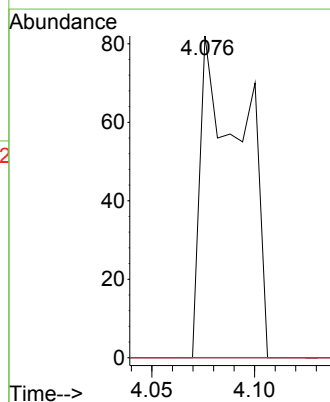
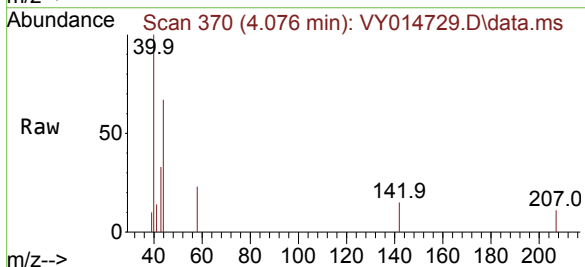
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

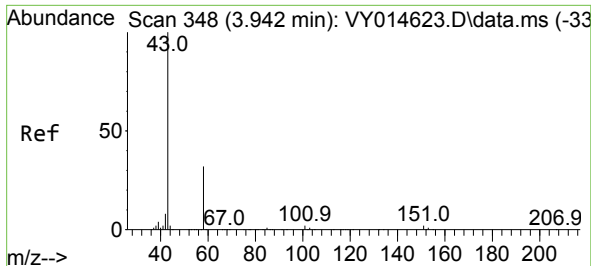
Tgt Ion:168 Resp: 231978  
Ion Ratio Lower Upper  
168 100  
99 54.6 43.4 65.0



#10  
Methyl Iodide  
Concen: 2.412 ug/l  
RT: 4.076 min Scan# 370  
Delta R.T. -0.006 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion:142 Resp: 117  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#

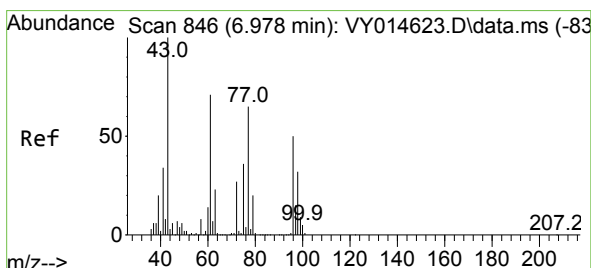
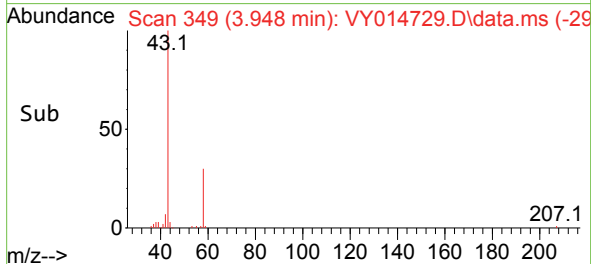
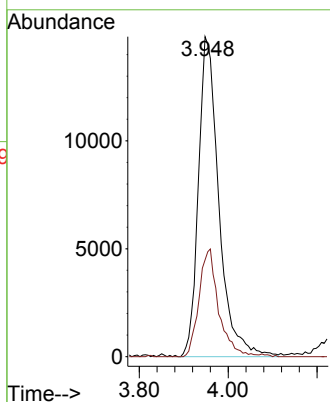
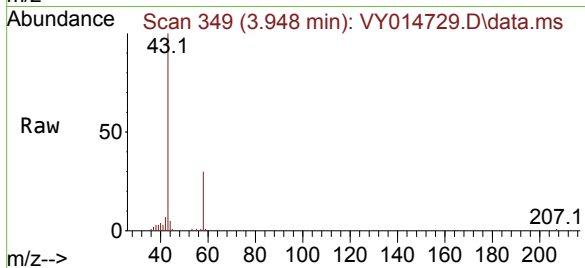




#16  
Acetone  
Concen: 56.674 ug/l  
RT: 3.948 min Scan# 348  
Delta R.T. 0.006 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

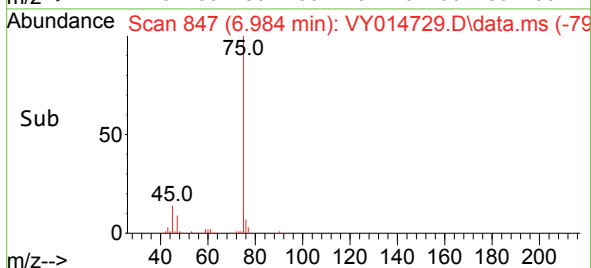
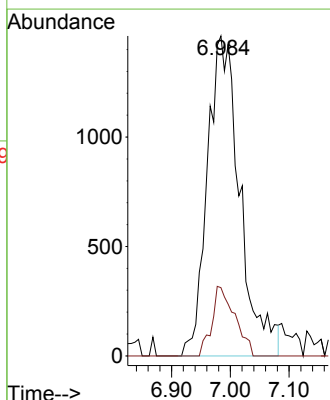
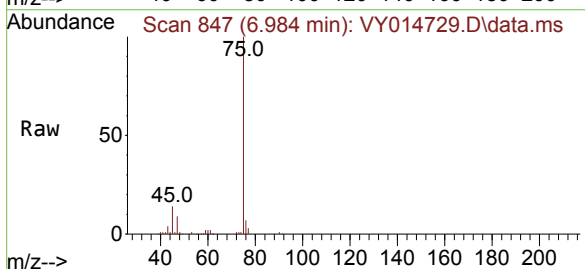
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

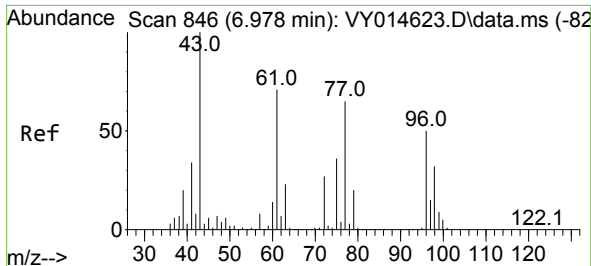
Tgt Ion: 43 Resp: 47475  
Ion Ratio Lower Upper  
43 100  
58 30.2 22.7 34.1



#25  
2-Butanone  
Concen: 4.588 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 43 Resp: 5623  
Ion Ratio Lower Upper  
43 100  
72 21.3 20.5 30.7

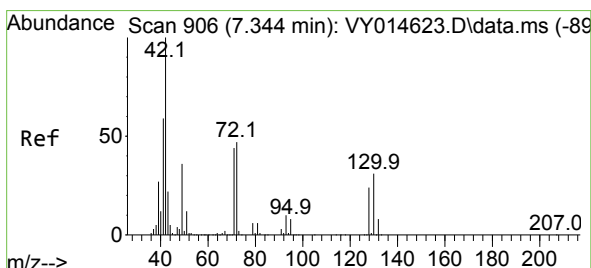
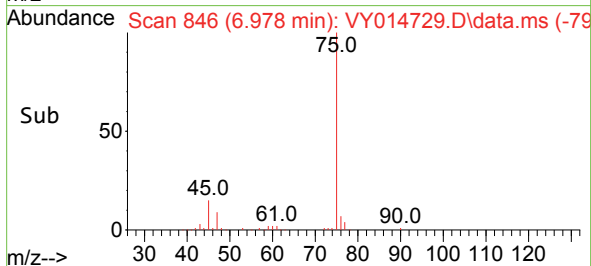
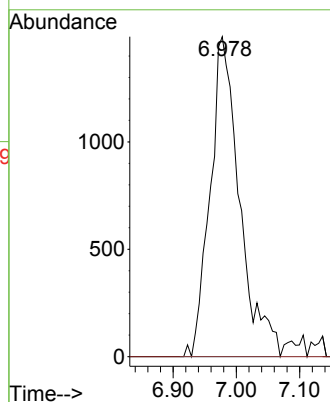
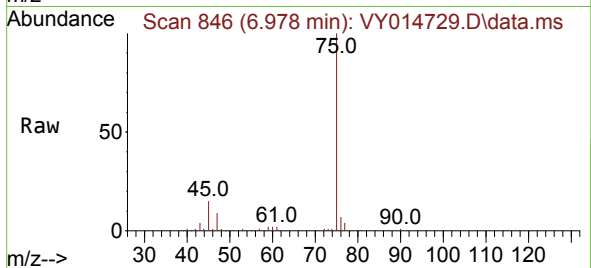




#26  
2,2-Dichloropropane  
Concen: 1.072 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

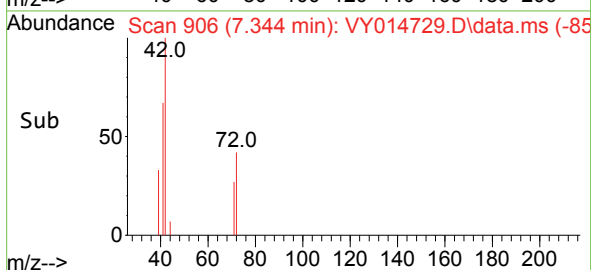
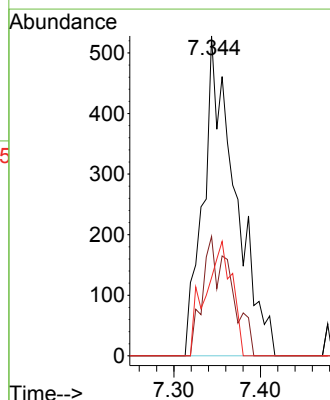
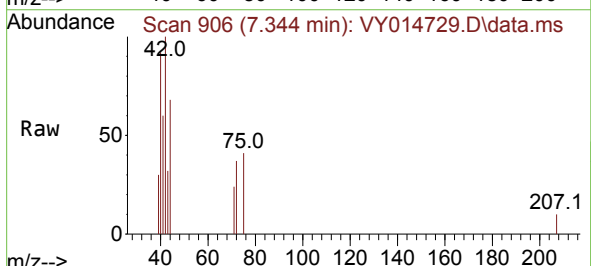
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

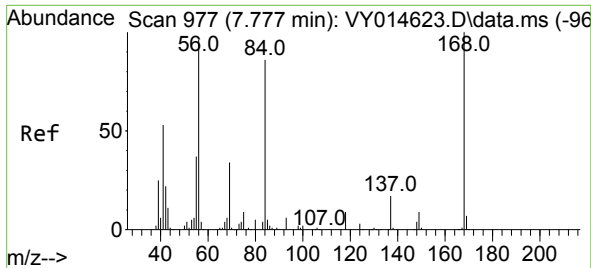
Tgt Ion: 77 Resp: 4821  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.9#



#29  
Tetrahydrofuran  
Concen: 1.794 ug/l  
RT: 7.344 min Scan# 906  
Delta R.T. -0.000 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 42 Resp: 1354  
Ion Ratio Lower Upper  
42 100  
72 16.6 32.8 49.2#  
71 29.8 31.0 46.4#

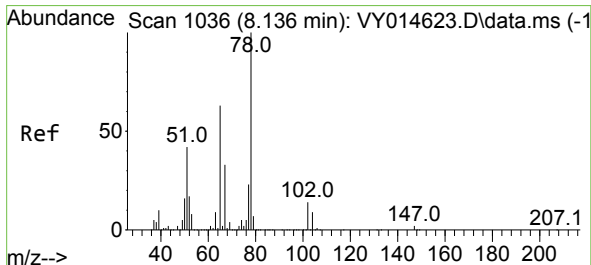
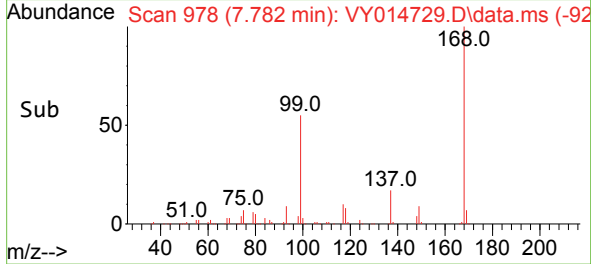
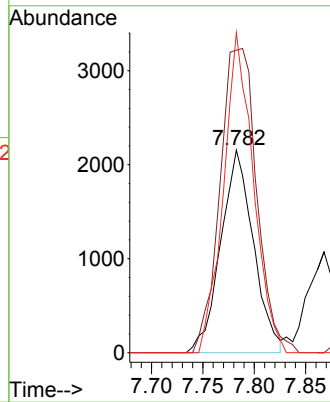
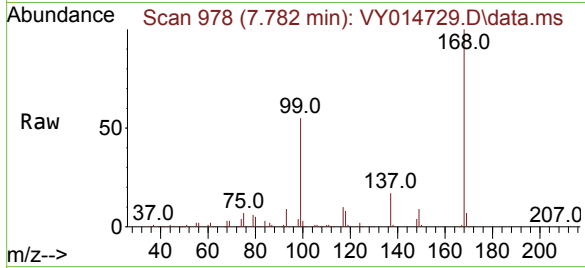




#31  
Cyclohexane  
Concen: 1.087 ug/l  
RT: 7.782 min Scan# 91  
Delta R.T. 0.005 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

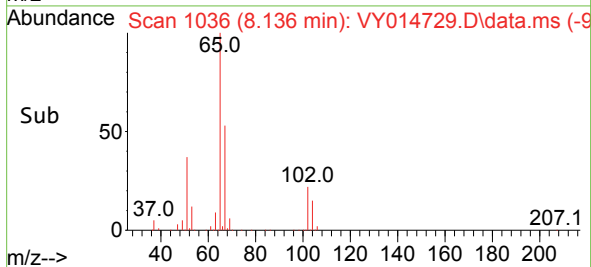
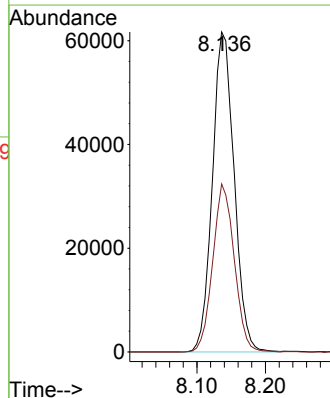
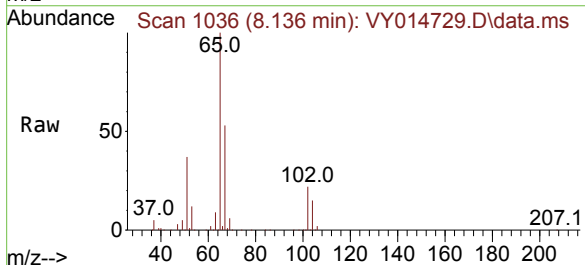
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

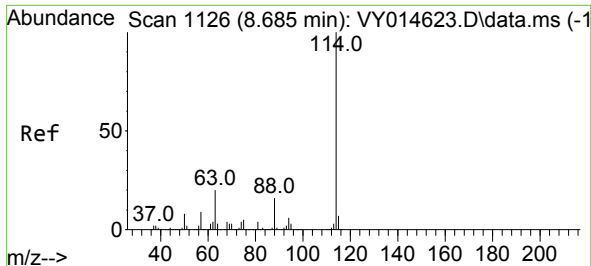
Tgt Ion: 56 Resp: 4768  
Ion Ratio Lower Upper  
56 100  
69 149.4 27.8 41.6#  
84 157.9 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 51.399 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 65 Resp: 135871  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 101.8

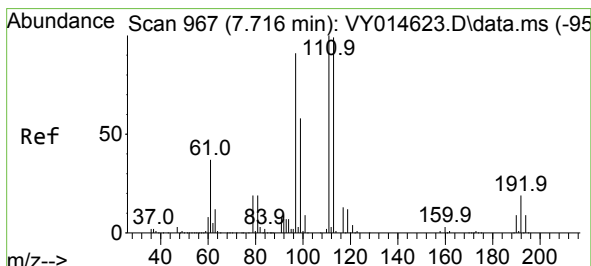
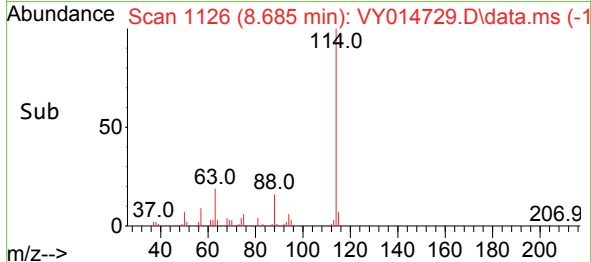
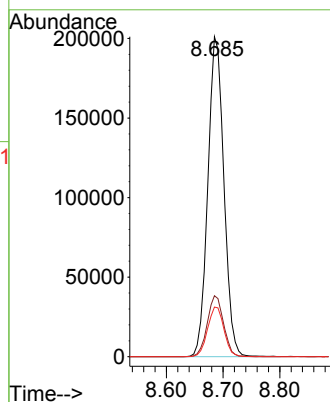
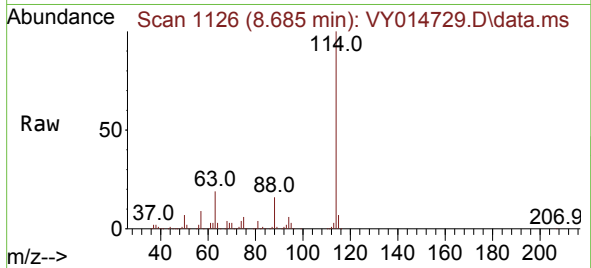




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

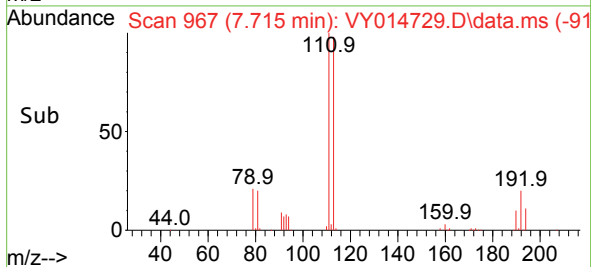
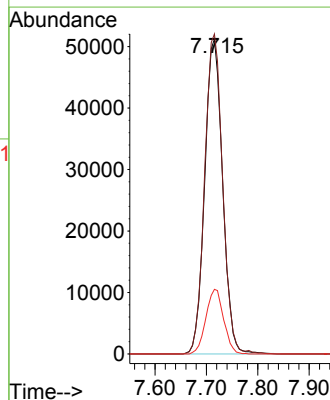
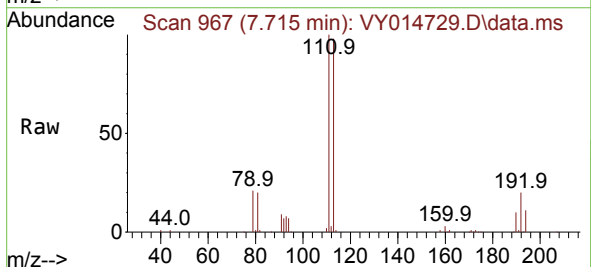
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

Tgt Ion:114 Resp: 395626  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 42.4  
88 15.5 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 49.165 ug/l  
RT: 7.715 min Scan# 967  
Delta R.T. -0.001 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion:113 Resp: 123820  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.3 121.9  
192 20.3 16.9 25.3

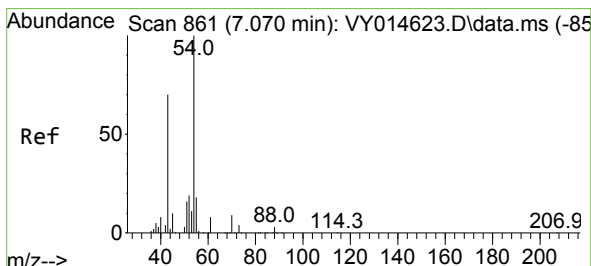
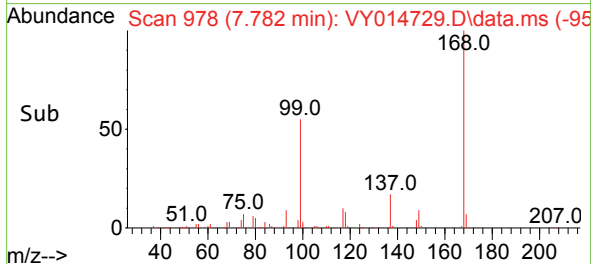
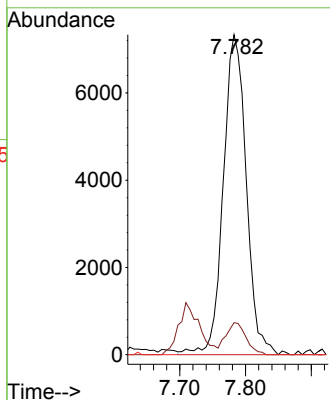
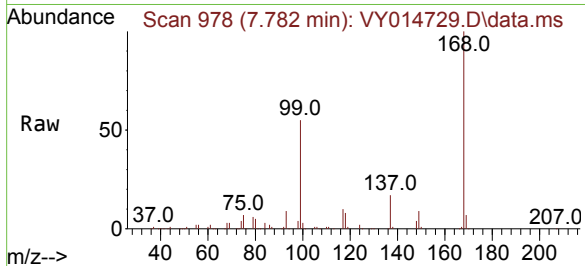




#36  
1,1-Dichloropropene  
Concen: 4.725 ug/l  
RT: 7.782 min Scan# 91  
Delta R.T. -0.129 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

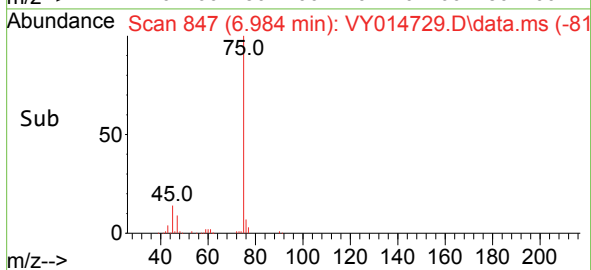
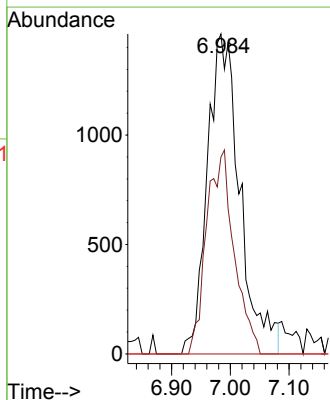
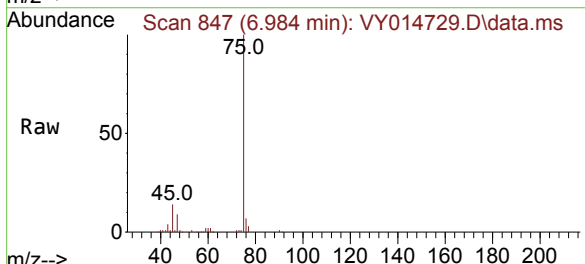
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

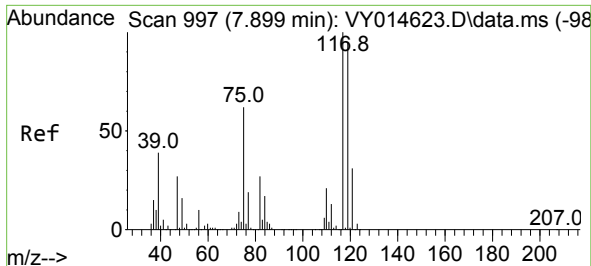
Tgt Ion: 75 Resp: 17797  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.8 53.5#  
77 0.0 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 2.168 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. -0.086 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 43 Resp: 5623  
Ion Ratio Lower Upper  
43 100  
61 54.0 10.1 15.1#  
70 0.0 7.1 10.7#

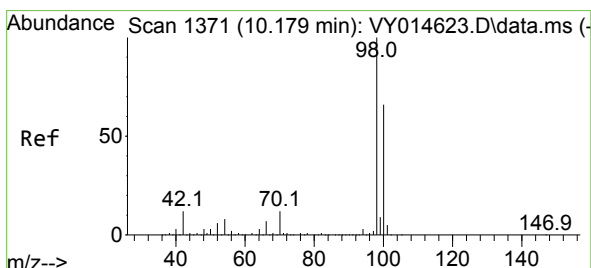
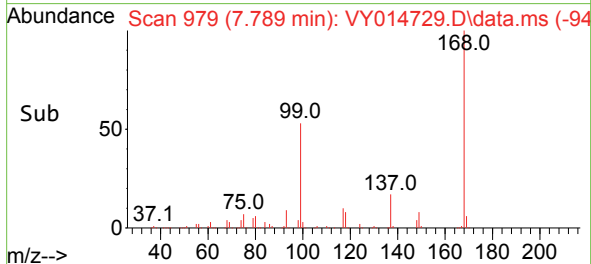
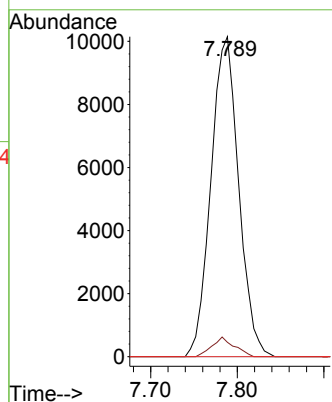
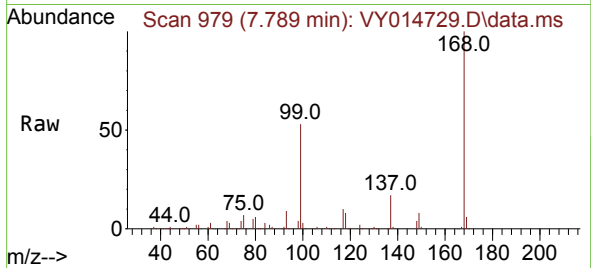




#38  
Carbon Tetrachloride  
Concen: 5.670 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

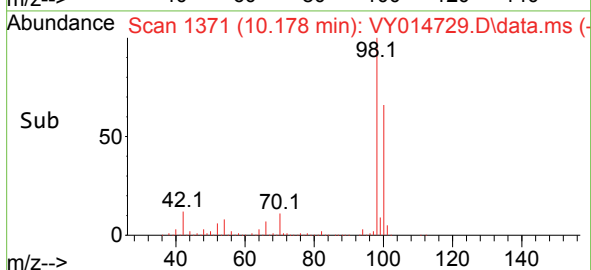
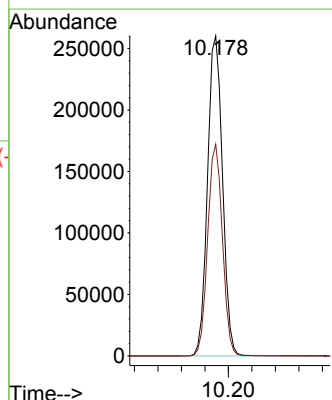
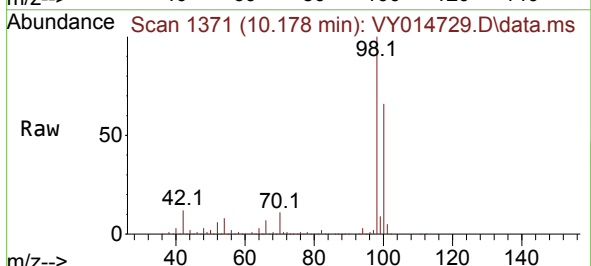
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

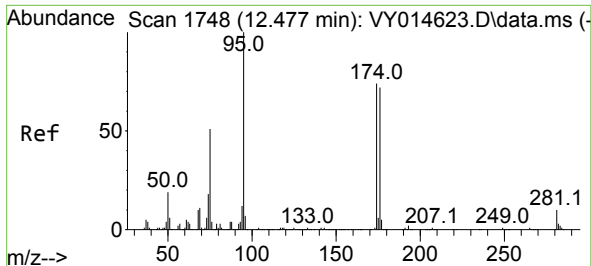
Tgt Ion:117 Resp: 22574  
Ion Ratio Lower Upper  
117 100  
119 4.5 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 49.650 ug/l  
RT: 10.178 min Scan# 1371  
Delta R.T. -0.001 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 98 Resp: 460999  
Ion Ratio Lower Upper  
98 100  
100 64.9 50.1 75.1

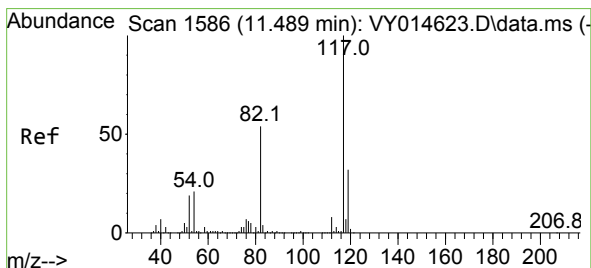
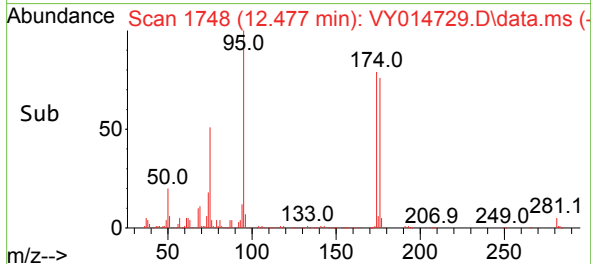
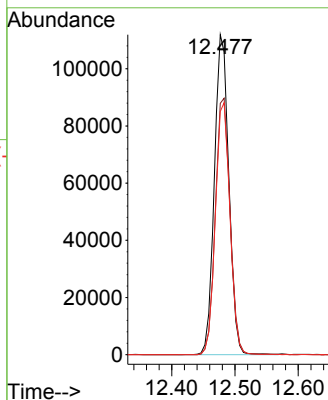
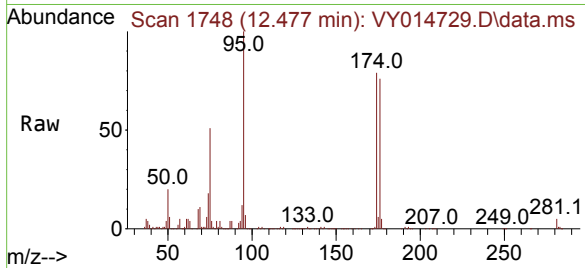




#62  
4-Bromofluorobenzene  
Concen: 49.837 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

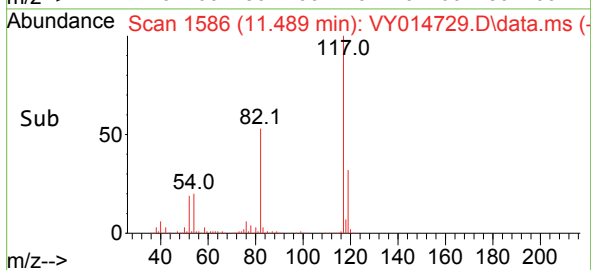
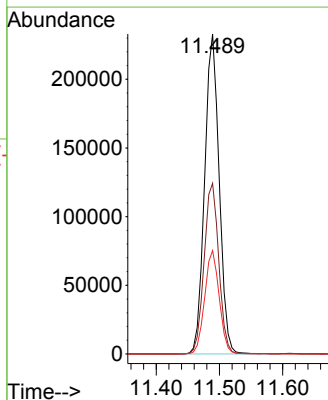
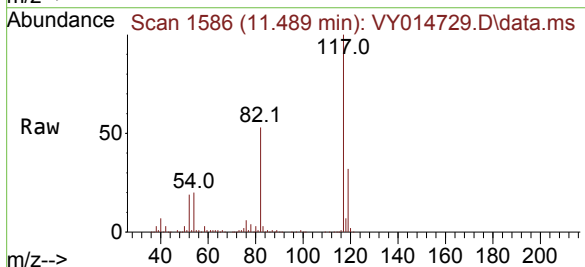
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

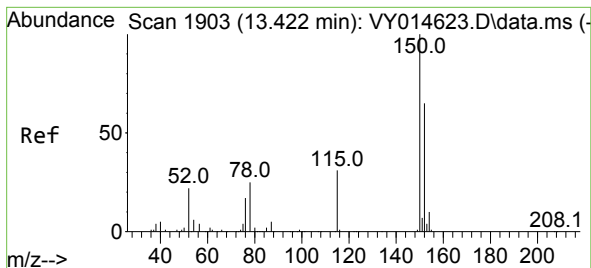
Tgt Ion: 95 Resp: 177432  
Ion Ratio Lower Upper  
95 100  
174 81.4 0.0 178.2  
176 79.2 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 117 Resp: 373113  
Ion Ratio Lower Upper  
117 100  
82 53.4 43.4 65.0  
119 32.3 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.000 min

Lab File: VY014729.D

Acq: 20 Jul 2023 18:26

Instrument :

MSVOA\_Y

ClientSampleId :

RPTP-2-GRAB-1

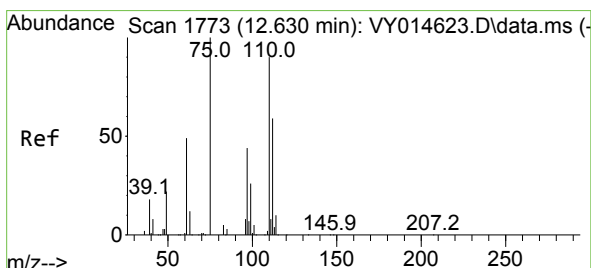
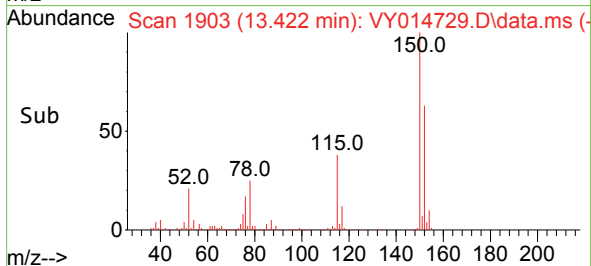
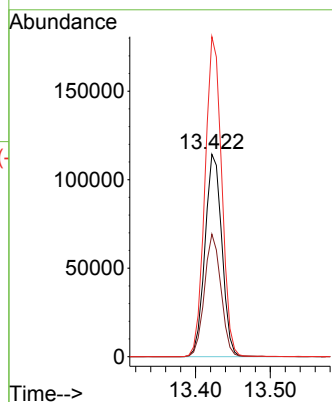
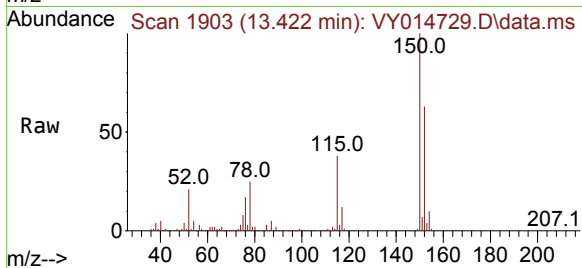
Tgt Ion:152 Resp: 179328

Ion Ratio Lower Upper

152 100

115 59.0 28.8 86.5

150 156.6 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 39.721 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.153 min

Lab File: VY014729.D

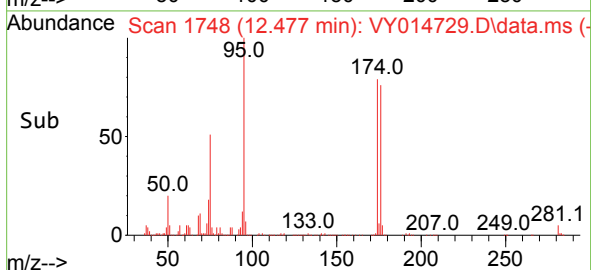
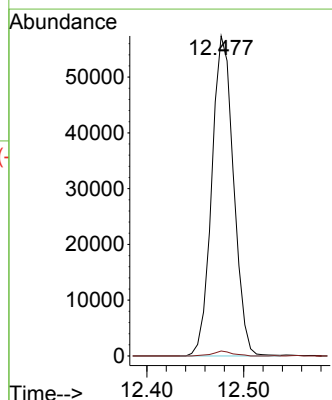
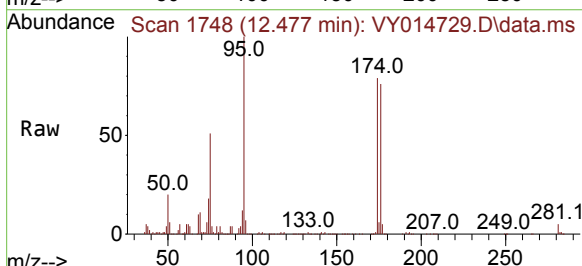
Acq: 20 Jul 2023 18:26

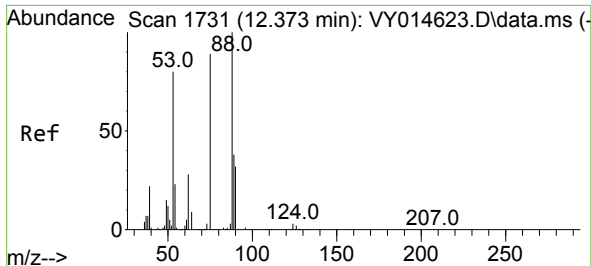
Tgt Ion: 75 Resp: 89962

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#

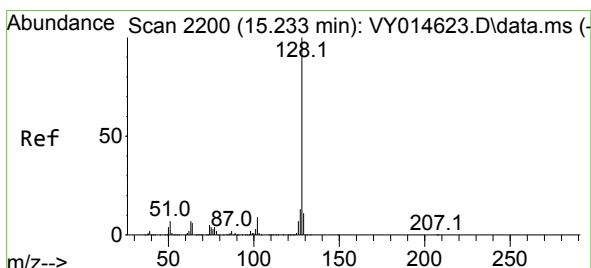
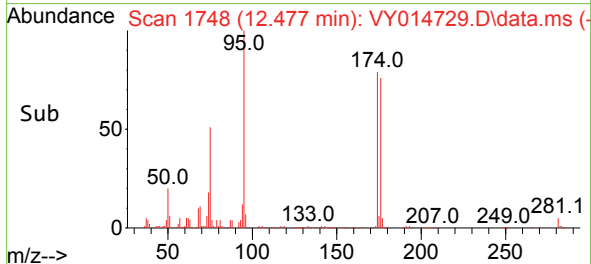
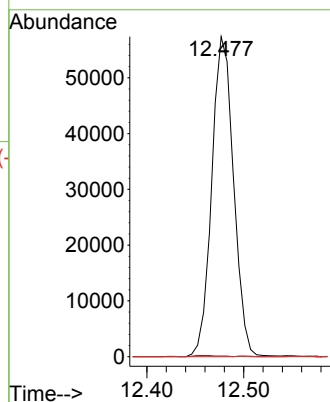
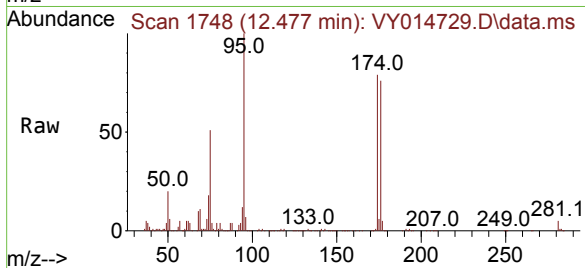




#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.906 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RPTP-2-GRAB-1

Tgt Ion: 75 Resp: 89962  
Ion Ratio Lower Upper  
75 100  
53 0.1 77.8 116.8#  
89 0.1 37.4 56.0#



#95  
Naphthalene  
Concen: 1.674 ug/l  
RT: 15.238 min Scan# 2201  
Delta R.T. 0.005 min  
Lab File: VY014729.D  
Acq: 20 Jul 2023 18:26

Tgt Ion: 128 Resp: 14149  
Ion Ratio Lower Upper  
128 100  
127 13.9 10.8 16.2  
129 13.4 8.6 13.0#

