

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103023\  
 Data File : VY016137.D  
 Acq On : 30 Oct 2023 17:49  
 Operator : SY/MD  
 Sample : 05142-01  
 Misc : 5.04g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 31 01:32:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 27 04:12:29 2023  
 Response via : Initial Calibration

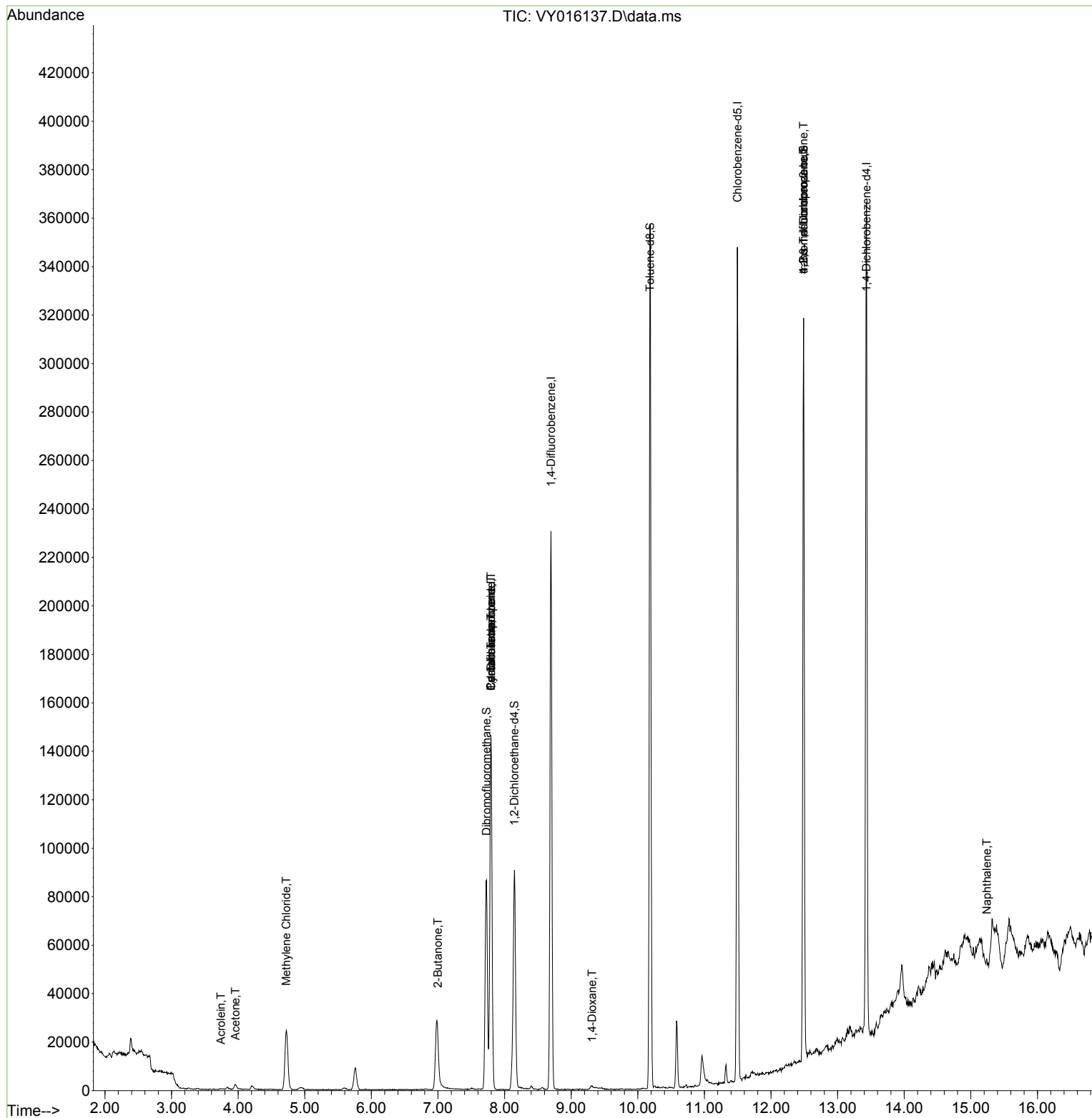
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 117546   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 197771   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 188089   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434 | 152   | 92775    | 50.000    | ug/l       | 0.01     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 66732    | 57.093    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 114.180% |          |
| 35) Dibromofluoromethane      | 7.728  | 113   | 62978    | 50.442    | ug/l       | 0.01     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.880% |          |
| 50) Toluene-d8                | 10.185 | 98    | 233337   | 50.454    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 100.900% |          |
| 62) 4-Bromofluorobenzene      | 12.489 | 95    | 84894    | 53.514    | ug/l       | 0.01     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 107.020% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.954  | 59    | 963      | Below Cal | #          | 89       |
| 13) Acrolein                  | 3.741  | 56    | 528      | 3.627     | ug/l       | 92       |
| 16) Acetone                   | 3.960  | 43    | 4254     | 13.428    | ug/l       | 94       |
| 20) Methylene Chloride        | 4.722  | 84    | 19488    | 11.282    | ug/l       | 88       |
| 25) 2-Butanone                | 6.996  | 43    | 2111     | 4.937     | ug/l       | 95       |
| 31) Cyclohexane               | 7.795  | 56    | 2235     | 1.215     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 9018     | 5.182     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 11554    | 6.278     | ug/l #     | 17       |
| 49) 1,4-Dioxane               | 9.313  | 88    | 2140     | 233.919   | ug/l #     | 77       |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75    | 45376    | 47.906    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75    | 45376    | 104.104   | ug/l #     | 11       |
| 95) Naphthalene               | 15.239 | 128   | 3589     | 1.092     | ug/l       | 98       |
| -----                         |        |       |          |           |            |          |

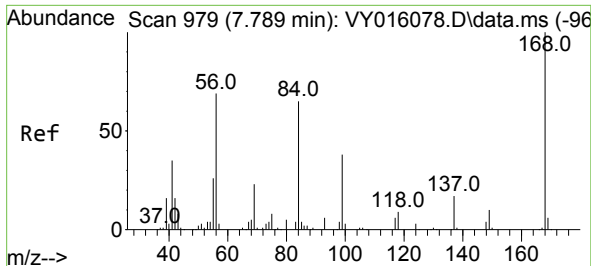
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103023\  
Data File : VY016137.D  
Acq On : 30 Oct 2023 17:49  
Operator : SY/MD  
Sample : 05142-01  
Misc : 5.04g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

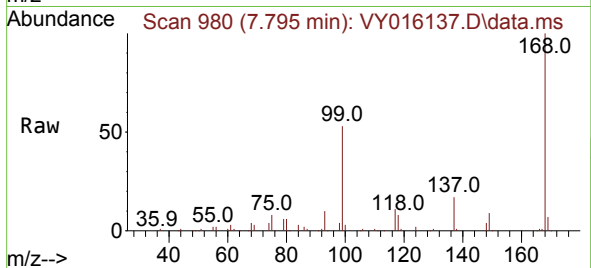
Quant Time: Oct 31 01:32:59 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 27 04:12:29 2023  
Response via : Initial Calibration



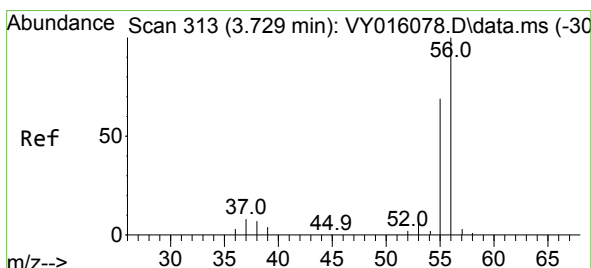
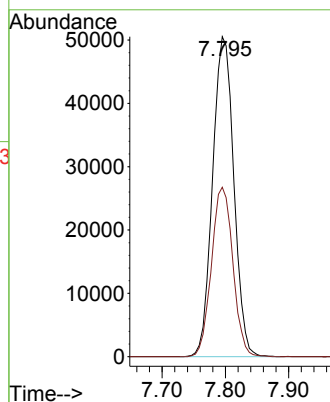
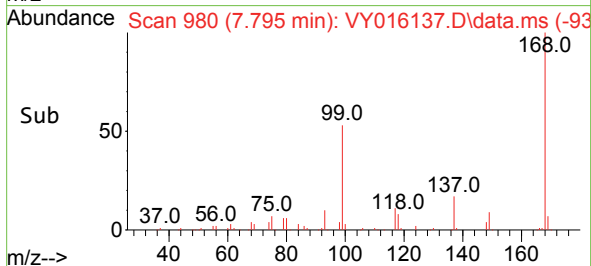


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Instrument :  
MSVOA\_Y  
ClientSampleId :

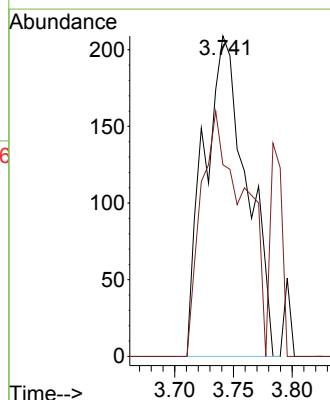
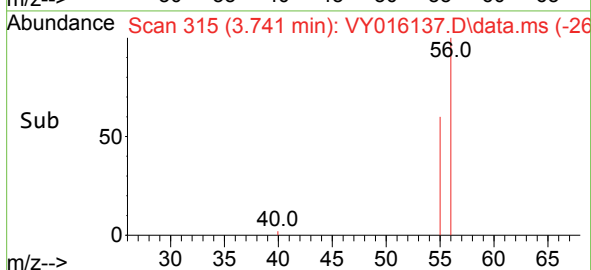
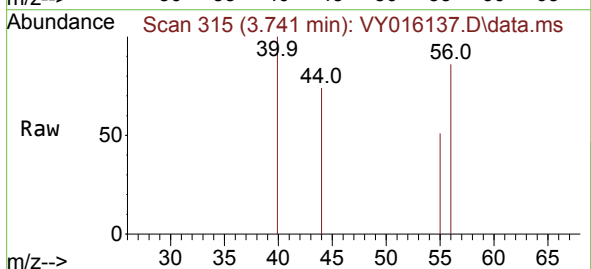


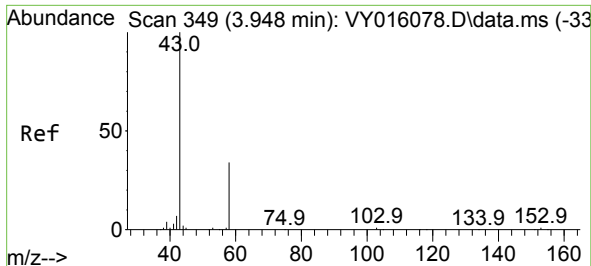
Tgt Ion:168 Resp: 117546  
Ion Ratio Lower Upper  
168 100  
99 53.0 43.4 65.0



#13  
Acrolein  
Concen: 3.627 ug/l  
RT: 3.741 min Scan# 315  
Delta R.T. 0.012 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Tgt Ion: 56 Resp: 528  
Ion Ratio Lower Upper  
56 100  
55 77.5 57.0 85.4

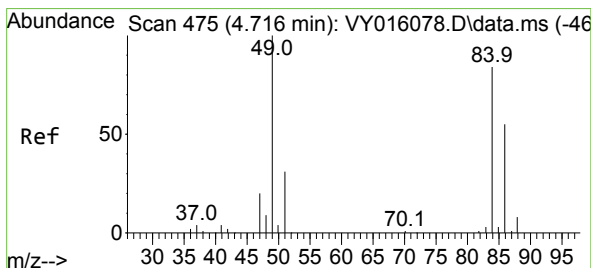
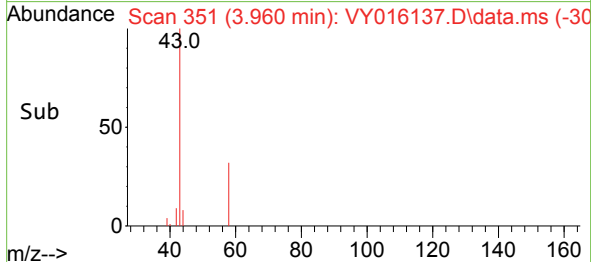
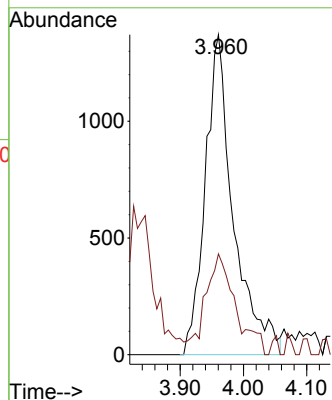
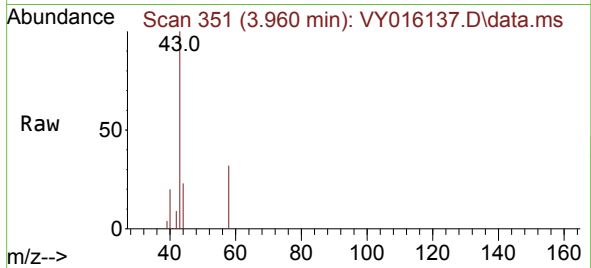




#16  
Acetone  
Concen: 13.428 ug/l  
RT: 3.960 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

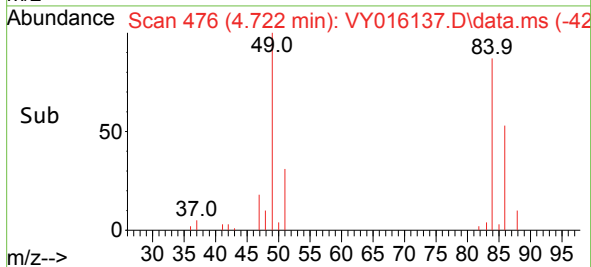
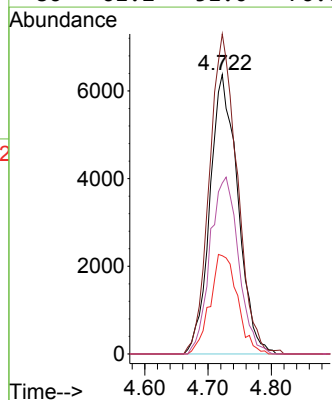
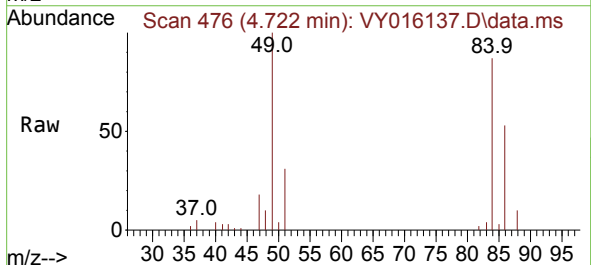
Instrument :  
MSVOA\_Y  
ClientSampleId :

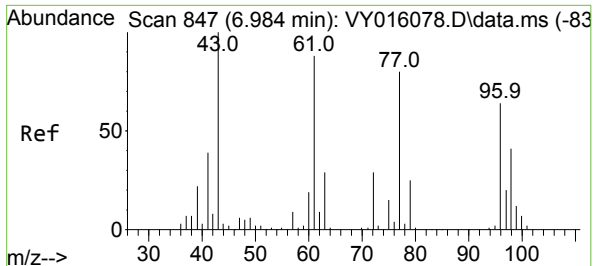
Tgt Ion: 43 Resp: 4254  
Ion Ratio Lower Upper  
43 100  
58 31.5 22.7 34.1



#20  
Methylene Chloride  
Concen: 11.282 ug/l  
RT: 4.722 min Scan# 476  
Delta R.T. 0.006 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Tgt Ion: 84 Resp: 19488  
Ion Ratio Lower Upper  
84 100  
49 114.6 106.9 160.3  
51 35.2 33.2 49.8  
86 61.2 51.0 76.6





#25

2-Butanone

Concen: 4.937 ug/l

RT: 6.996 min Scan# 84

Delta R.T. 0.012 min

Lab File: VY016137.D

Acq: 30 Oct 2023 17:49

Instrument :

MSVOA\_Y

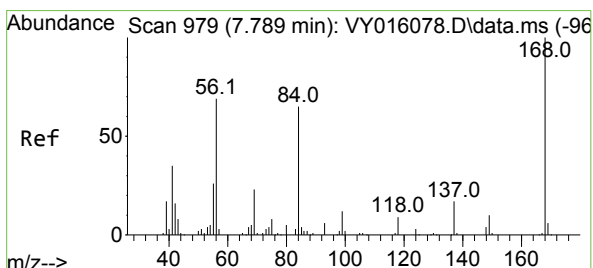
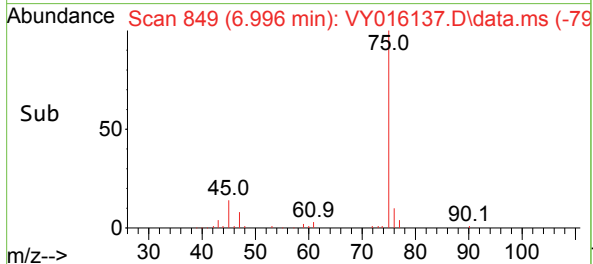
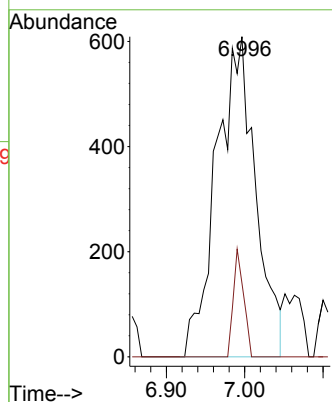
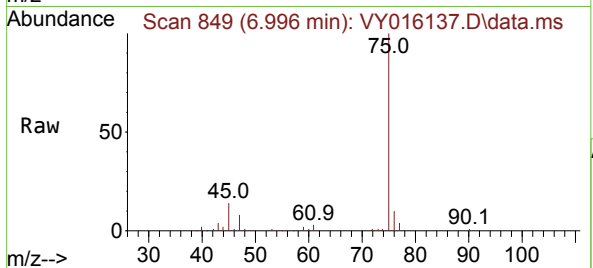
ClientSampleId :

Tgt Ion: 43 Resp: 2111

Ion Ratio Lower Upper

43 100

72 23.0 20.5 30.7



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY016137.D

Acq: 30 Oct 2023 17:49

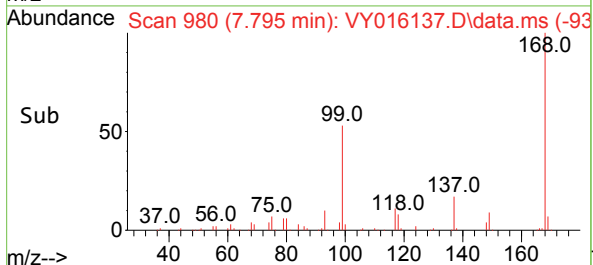
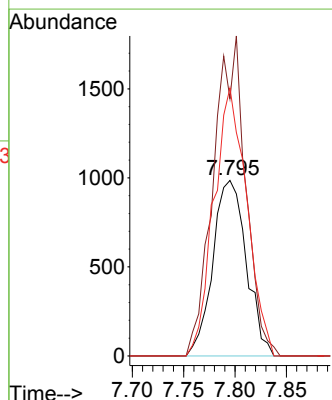
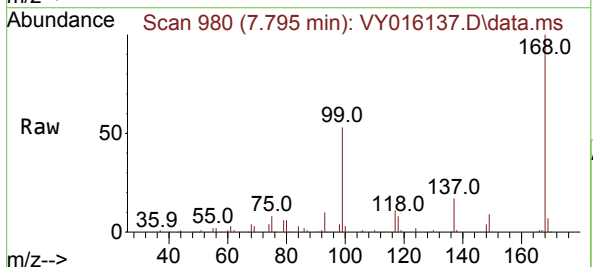
Tgt Ion: 56 Resp: 2235

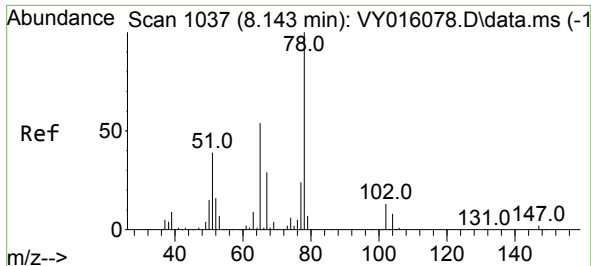
Ion Ratio Lower Upper

56 100

69 146.6 27.8 41.6#

84 152.6 66.4 99.6#

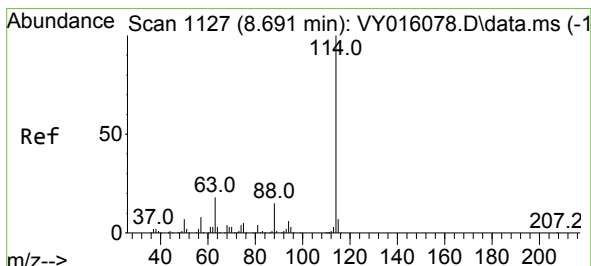
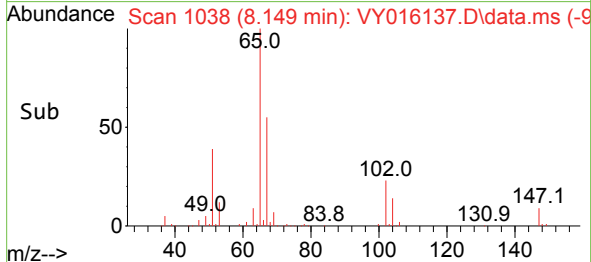
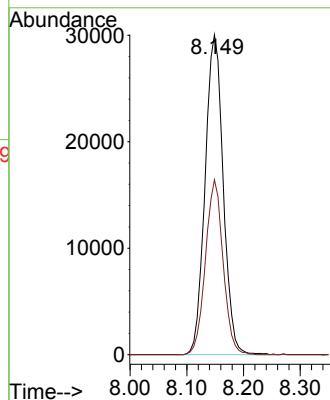
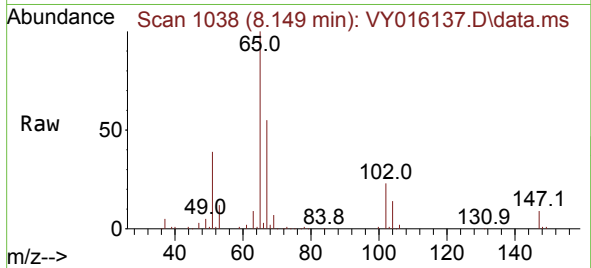




#33  
1,2-Dichloroethane-d4  
Concen: 57.093 ug/l  
RT: 8.149 min Scan# 1037  
Delta R.T. 0.006 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

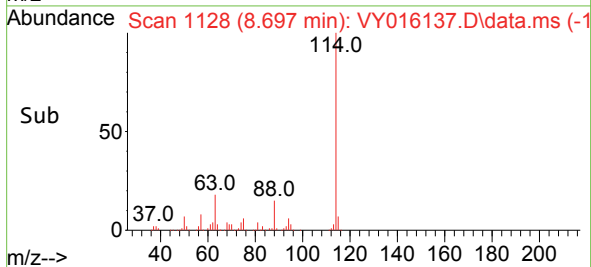
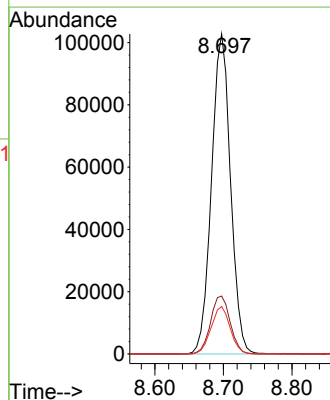
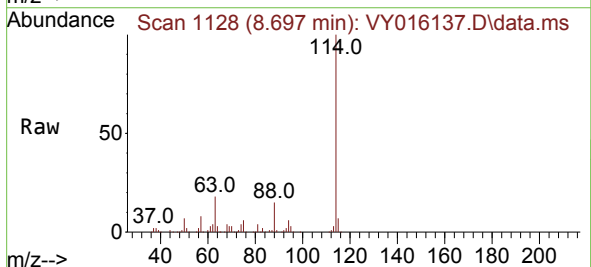
Instrument :  
MSVOA\_Y  
ClientSampleId :

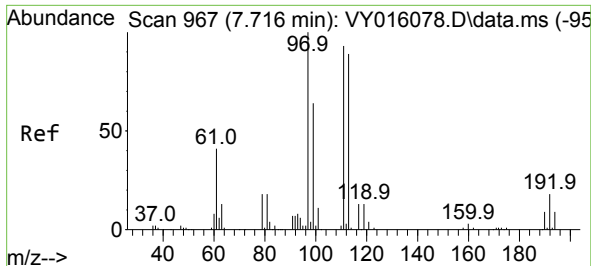
Tgt Ion: 65 Resp: 66732  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

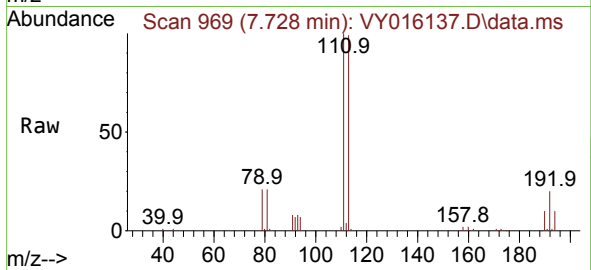
Tgt Ion: 114 Resp: 197771  
Ion Ratio Lower Upper  
114 100  
63 18.1 0.0 42.4  
88 14.8 0.0 30.6



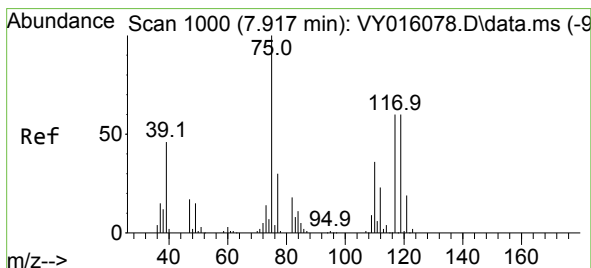
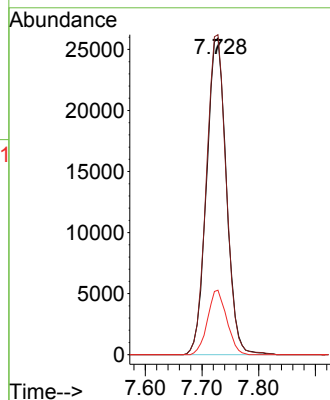
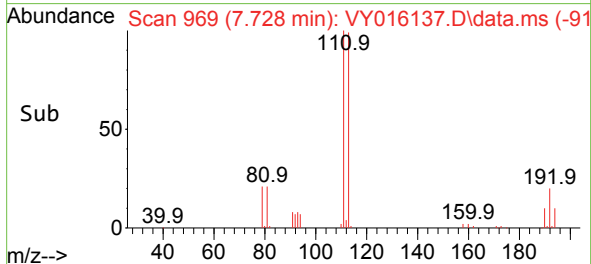


#35  
Dibromofluoromethane  
Concen: 50.442 ug/l  
RT: 7.728 min Scan# 90  
Delta R.T. 0.012 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

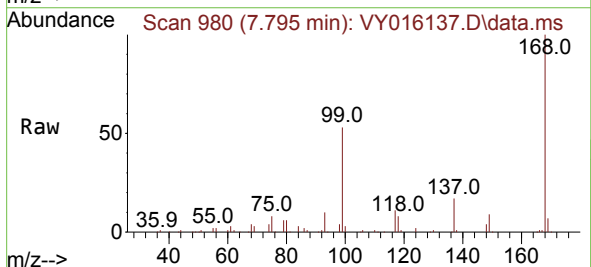
Instrument :  
MSVOA\_Y  
ClientSampleId :



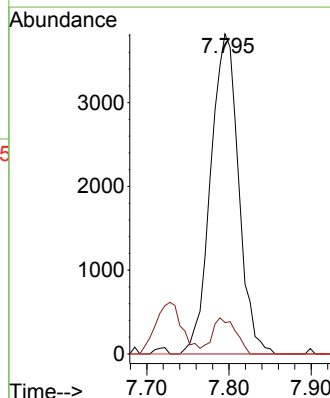
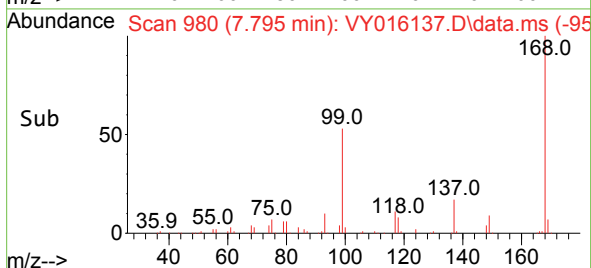
Tgt Ion:113 Resp: 62978  
Ion Ratio Lower Upper  
113 100  
111 101.2 81.3 121.9  
192 19.7 16.9 25.3

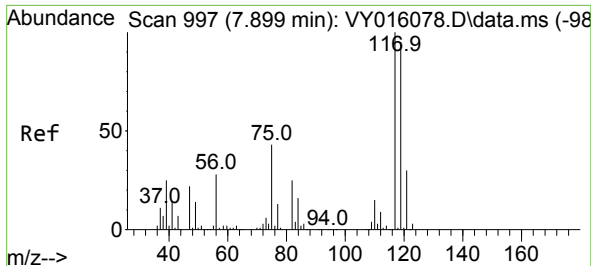


#36  
1,1-Dichloropropene  
Concen: 5.182 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.122 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49



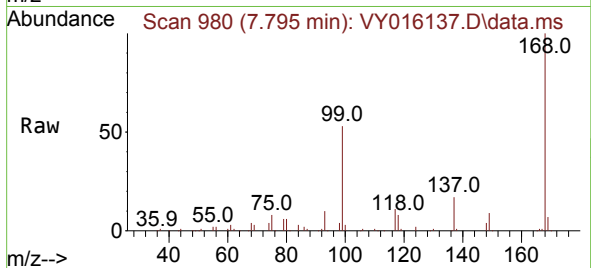
Tgt Ion: 75 Resp: 9018  
Ion Ratio Lower Upper  
75 100  
110 9.5 17.8 53.5#  
77 0.0 24.4 36.6#



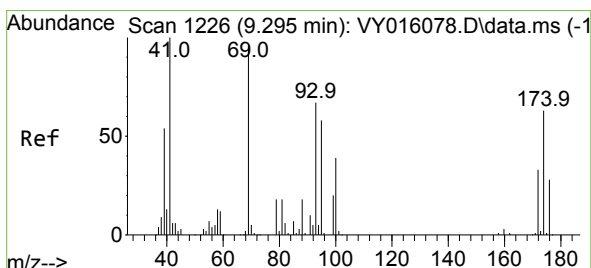
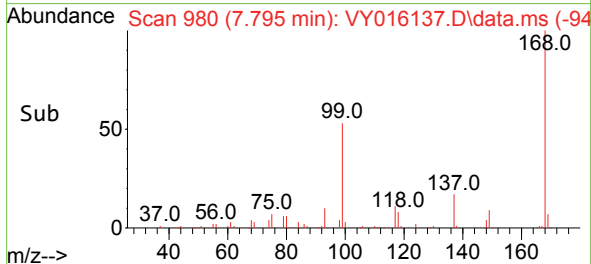
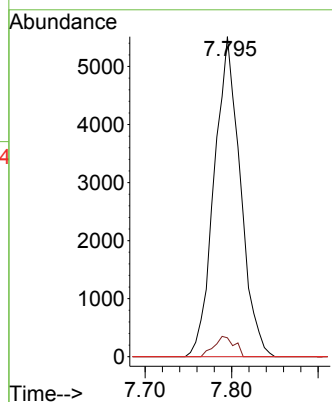


#38  
Carbon Tetrachloride  
Concen: 6.278 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.104 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Instrument :  
MSVOA\_Y  
ClientSampleId :

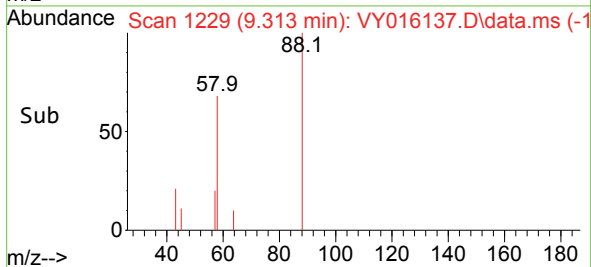
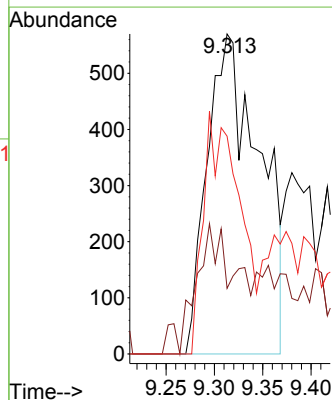
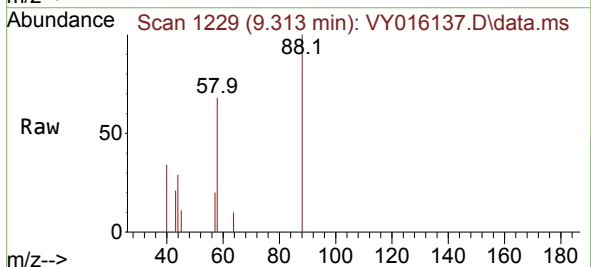


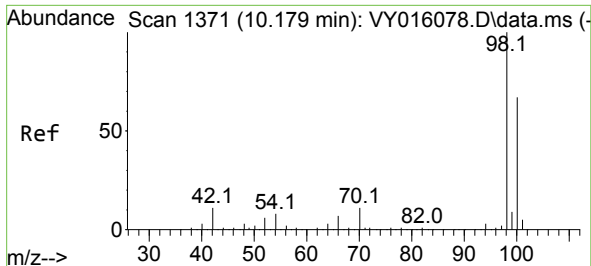
Tgt Ion:117 Resp: 11554  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.4 114.6#  
121 0.0 25.8 38.6#



#49  
1,4-Dioxane  
Concen: 233.919 ug/l  
RT: 9.313 min Scan# 1229  
Delta R.T. 0.018 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Tgt Ion: 88 Resp: 2140  
Ion Ratio Lower Upper  
88 100  
43 25.0 0.0 0.0#  
58 52.7 30.9 46.3#

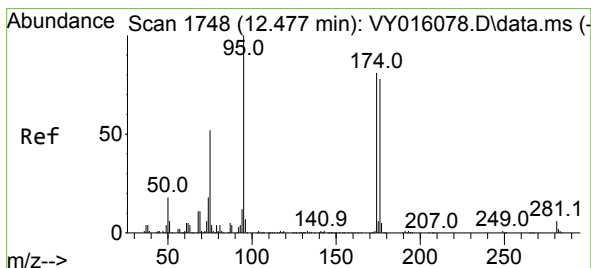
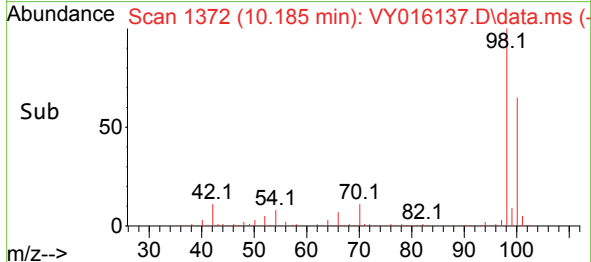
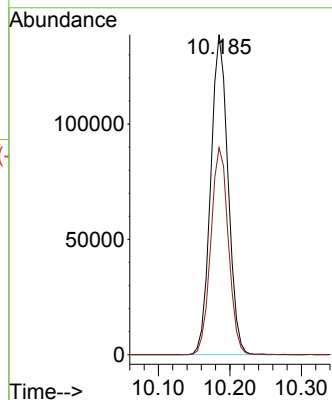
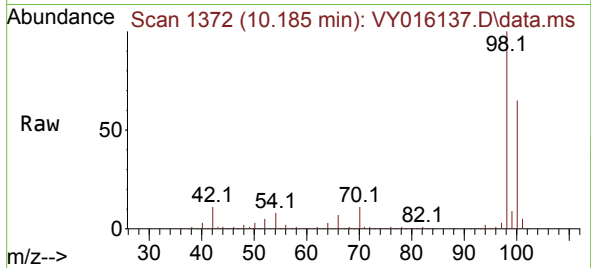




#50  
Toluene-d8  
Concen: 50.454 ug/l  
RT: 10.185 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

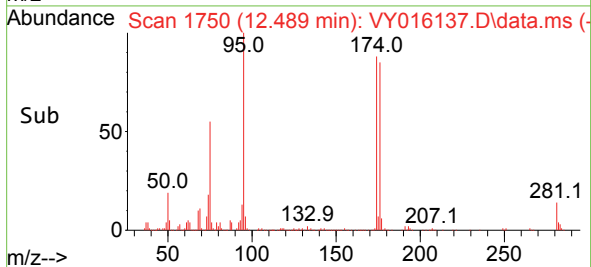
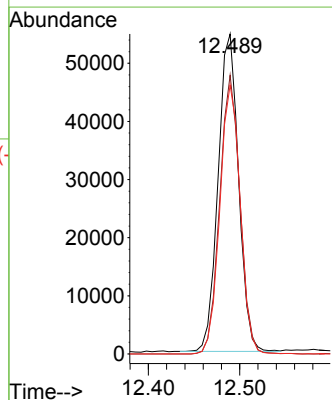
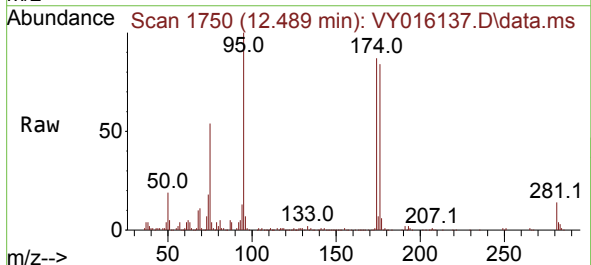
Instrument :  
MSVOA\_Y  
ClientSampleId :

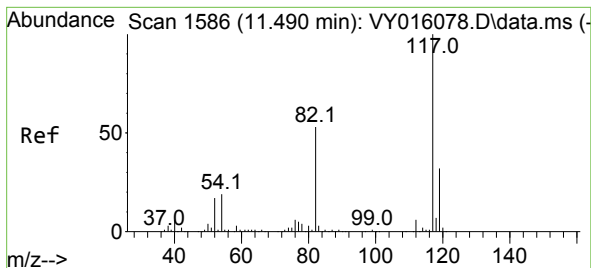
Tgt Ion: 98 Resp: 233337  
Ion Ratio Lower Upper  
98 100  
100 65.5 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 53.514 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.012 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

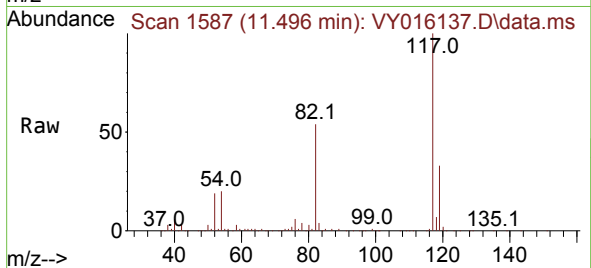
Tgt Ion: 95 Resp: 84894  
Ion Ratio Lower Upper  
95 100  
174 86.9 0.0 178.2  
176 84.6 0.0 173.8



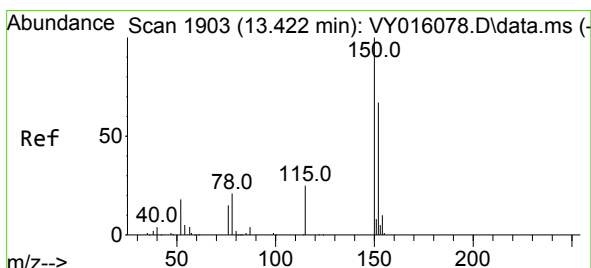
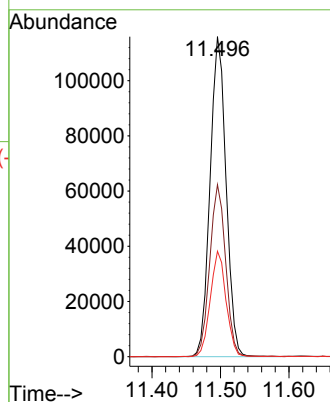
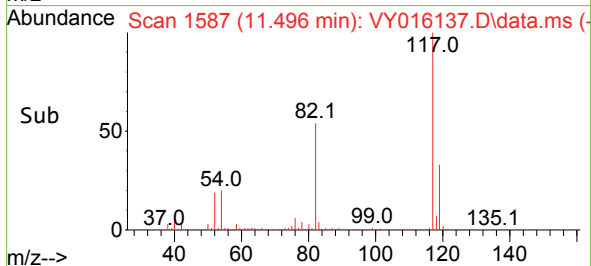


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Instrument :  
MSVOA\_Y  
ClientSampleId :

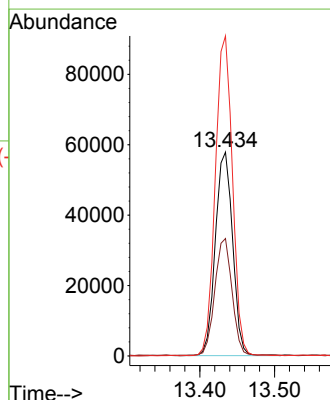
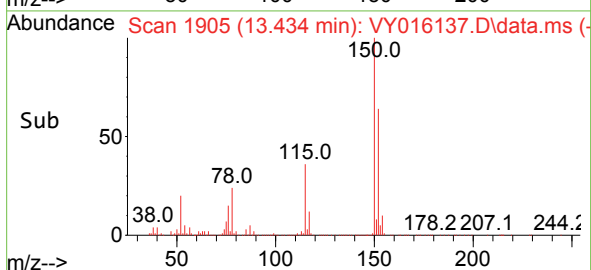
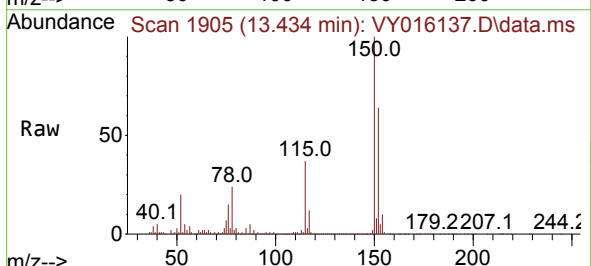


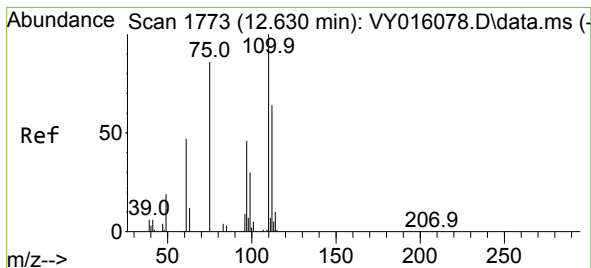
Tgt Ion:117 Resp: 188089  
Ion Ratio Lower Upper  
117 100  
82 53.7 43.4 65.0  
119 32.9 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.434 min Scan# 1905  
Delta R.T. 0.012 min  
Lab File: VY016137.D  
Acq: 30 Oct 2023 17:49

Tgt Ion:152 Resp: 92775  
Ion Ratio Lower Upper  
152 100  
115 57.1 28.8 86.5  
150 155.7 0.0 348.8

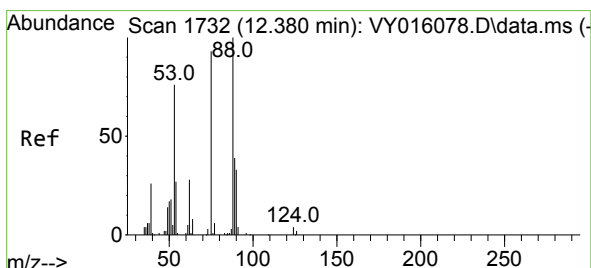
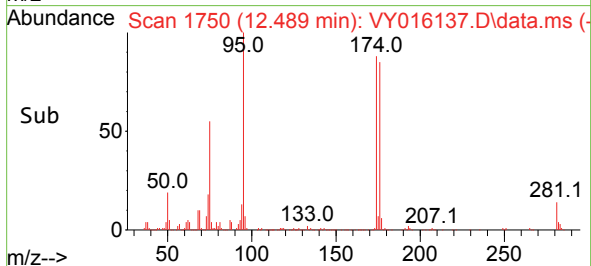
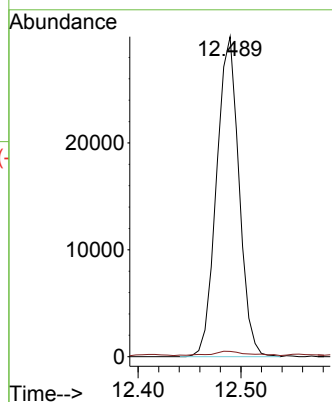
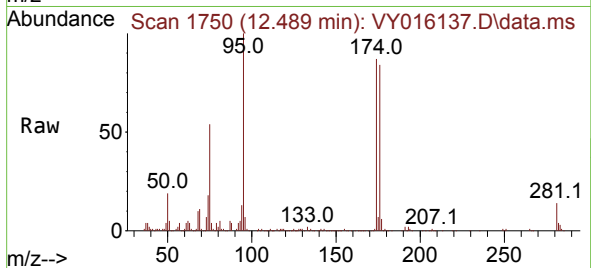




#76  
 1,2,3-Trichloropropane  
 Concen: 47.906 ug/l  
 RT: 12.489 min Scan# 1750  
 Delta R.T. -0.140 min  
 Lab File: VY016137.D  
 Acq: 30 Oct 2023 17:49

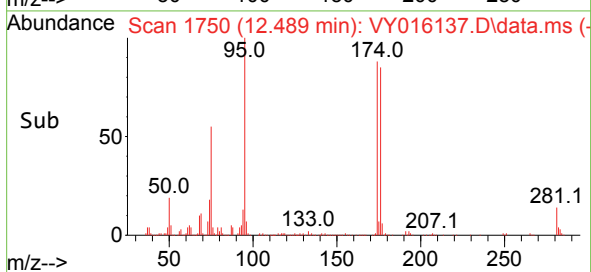
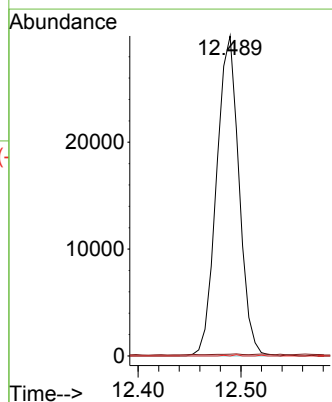
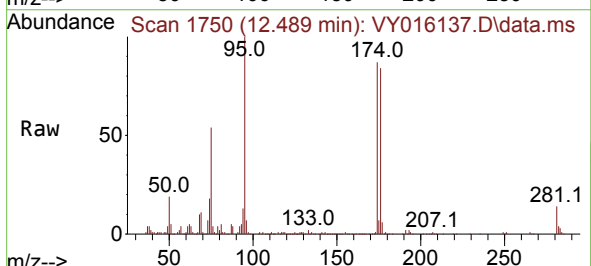
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

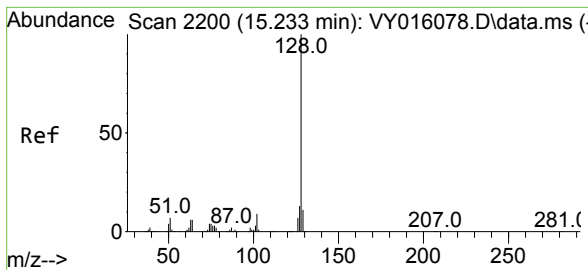
Tgt Ion: 75 Resp: 45376  
 Ion Ratio Lower Upper  
 75 100  
 77 2.1 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 104.104 ug/l  
 RT: 12.489 min Scan# 1750  
 Delta R.T. 0.110 min  
 Lab File: VY016137.D  
 Acq: 30 Oct 2023 17:49

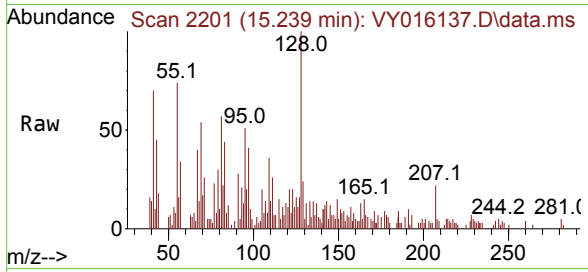
Tgt Ion: 75 Resp: 45376  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 77.8 116.8#  
 89 0.1 37.4 56.0#





#95  
 Naphthalene  
 Concen: 1.092 ug/l  
 RT: 15.239 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VY016137.D  
 Acq: 30 Oct 2023 17:49

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 3589 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 12.8  | 10.8  | 16.2 |
| 129       | 11.8  | 8.6   | 13.0 |

