

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082123\  
 Data File : VY015218.D  
 Acq On : 21 Aug 2023 14:20  
 Operator : SY/MD  
 Sample : 04086-09  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 22 01:54:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

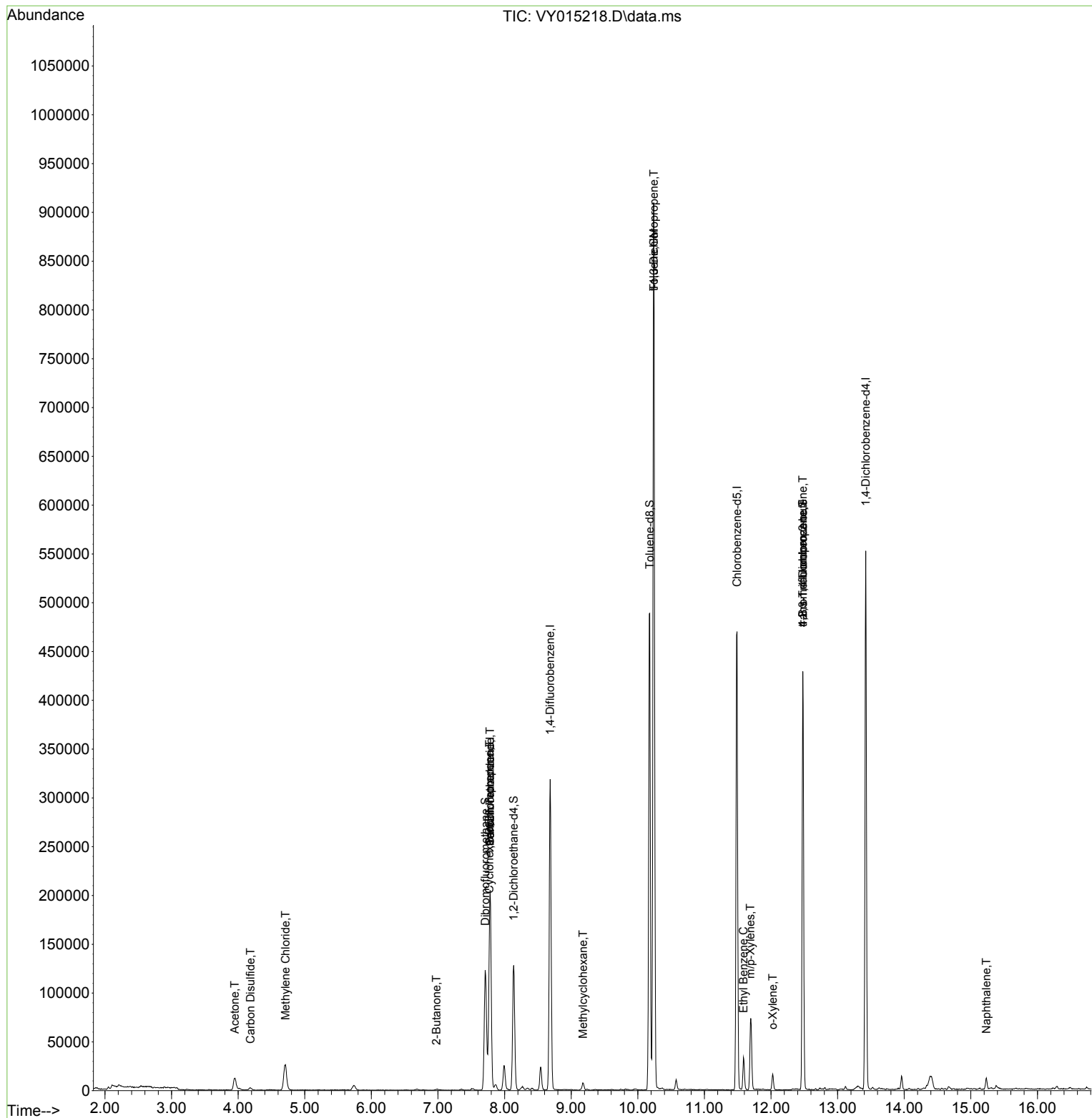
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 157848   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 275112   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 265294   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 139645   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 101157   | 53.386    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 106.780% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 86539    | 48.895    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 97.800%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 322620   | 48.967    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 97.940%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 128649   | 53.460    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 106.920% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.101  | 50    | 545      | Below Cal | #          | 85       |
| 5) Bromomethane               | 2.656  | 94    | 312      | Below Cal | #          | 70       |
| 11) Tert butyl alcohol        | 4.954  | 59    | 297      | Below Cal | #          | 89       |
| 13) Acrolein                  | 3.723  | 56    | 28       | Below Cal | #          | 14       |
| 16) Acetone                   | 3.948  | 43    | 23806    | 38.458    | ug/l       | 93       |
| 17) Carbon Disulfide          | 4.186  | 76    | 4593     | 2.376     | ug/l       | 100      |
| 20) Methylene Chloride        | 4.710  | 84    | 20634    | 10.489    | ug/l       | 95       |
| 25) 2-Butanone                | 6.978  | 43    | 1073     | 1.224     | ug/l #     | 49       |
| 31) Cyclohexane               | 7.771  | 56    | 6875     | 1.590     | ug/l #     | 71       |
| 36) 1,1-Dichloropropene       | 7.777  | 75    | 11996    | 6.126     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 15514    | 6.695     | ug/l #     | 16       |
| 39) Methylcyclohexane         | 9.179  | 83    | 2924     | 1.332     | ug/l       | 96       |
| 52) Toluene                   | 10.240 | 92    | 374642   | 96.015    | ug/l       | 94       |
| 53) t-1,3-Dichloropropene     | 10.240 | 75    | 4320     | 1.636     | ug/l #     | 1        |
| 67) Ethyl Benzene             | 11.587 | 91    | 23525    | 2.778     | ug/l       | 94       |
| 68) m/p-Xylenes               | 11.691 | 106   | 23961    | 7.449     | ug/l       | 94       |
| 69) o-Xylene                  | 12.026 | 106   | 4259     | 1.329     | ug/l       | 98       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 68200    | 40.198    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 68200    | 88.295    | ug/l #     | 11       |
| 95) Naphthalene               | 15.233 | 128   | 9643     | 1.487     | ug/l       | 97       |
| -----                         |        |       |          |           |            |          |

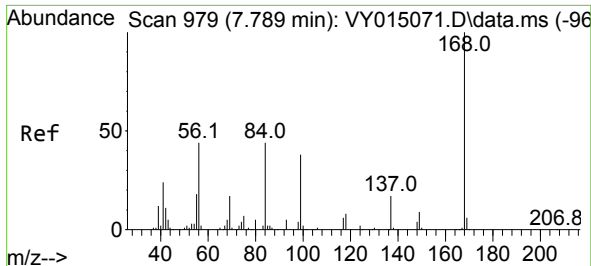
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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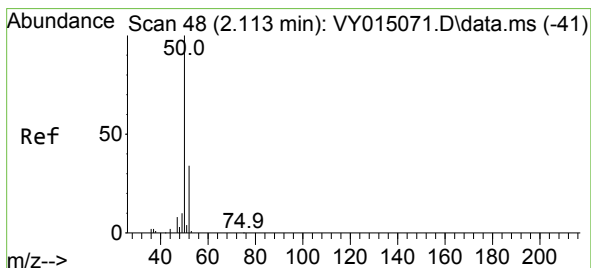
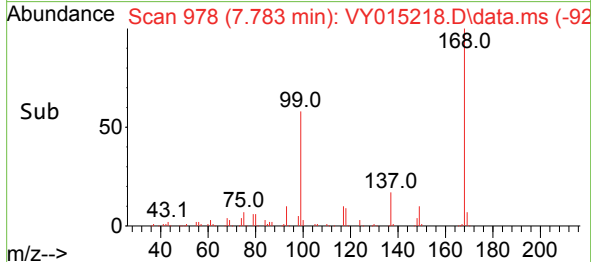
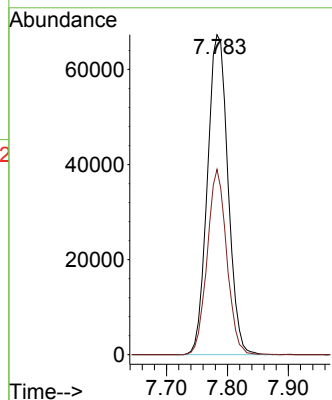
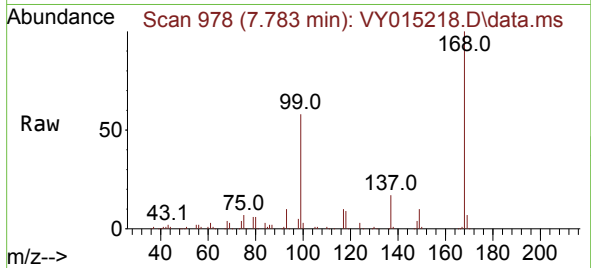




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

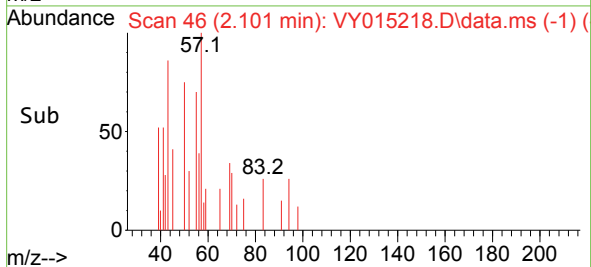
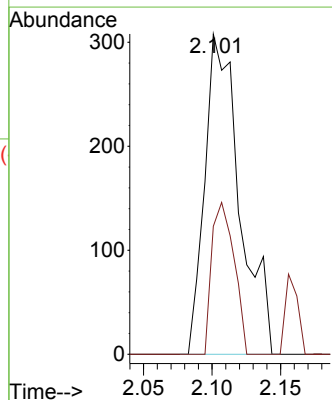
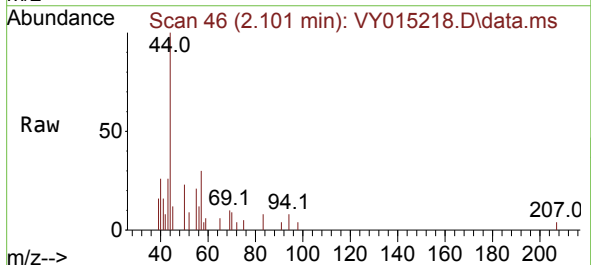
Instrument :  
MSVOA\_Y  
ClientSampleId :

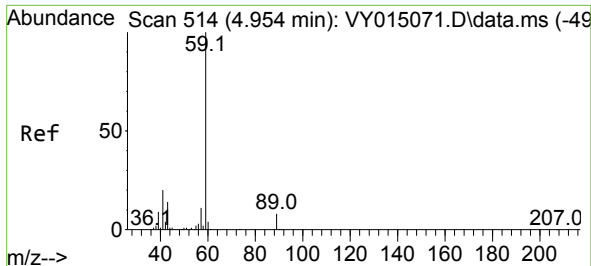
Tgt Ion:168 Resp: 157848  
Ion Ratio Lower Upper  
168 100  
99 57.9 43.4 65.0



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.101 min Scan# 46  
Delta R.T. -0.006 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 50 Resp: 545  
Ion Ratio Lower Upper  
50 100  
52 39.9 25.4 38.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.954 min Scan# 514

Delta R.T. 0.006 min

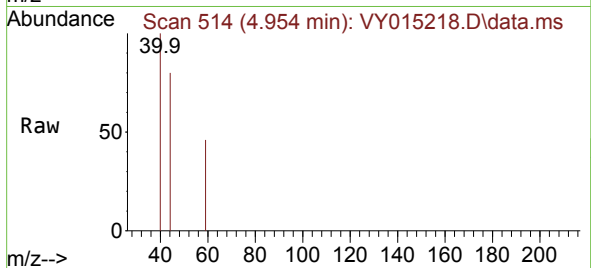
Lab File: VY015218.D

Acq: 21 Aug 2023 14:20

Instrument :

MSVOA\_Y

ClientSampleId :

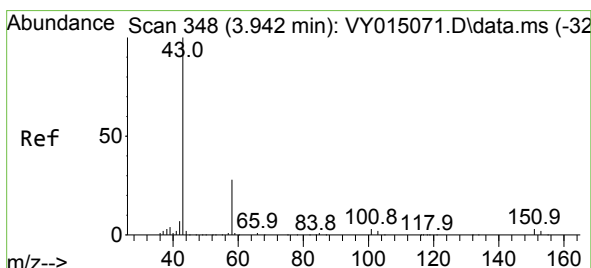
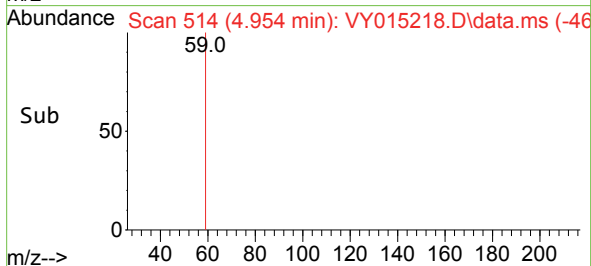
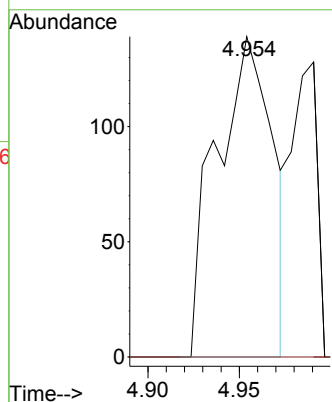


Tgt Ion: 59 Resp: 297

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#16

Acetone

Concen: 38.458 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.006 min

Lab File: VY015218.D

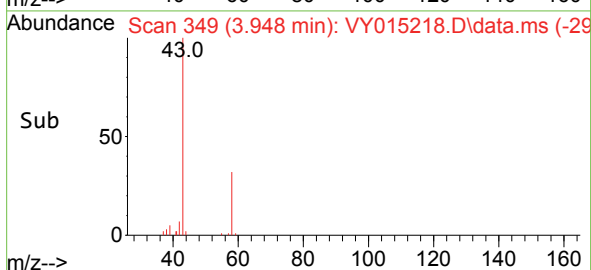
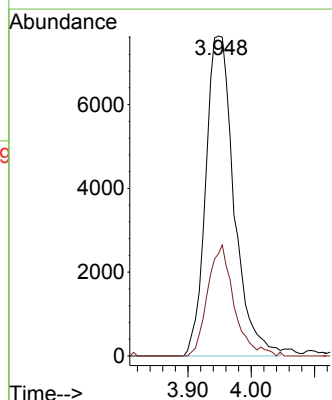
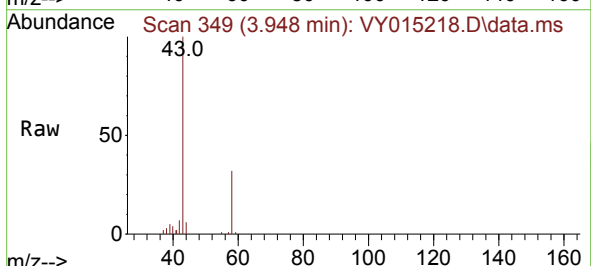
Acq: 21 Aug 2023 14:20

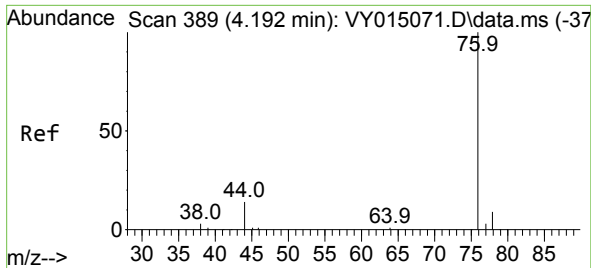
Tgt Ion: 43 Resp: 23806

Ion Ratio Lower Upper

43 100

58 32.0 22.7 34.1

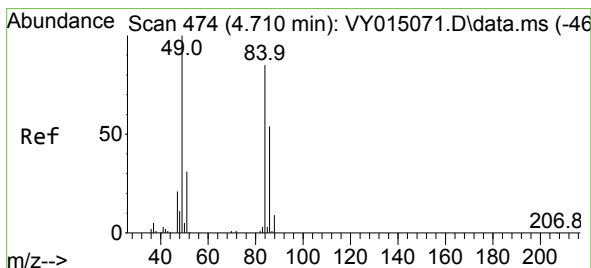
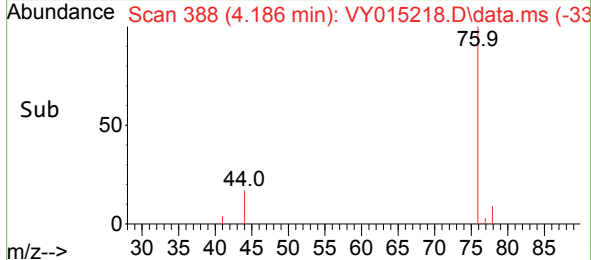
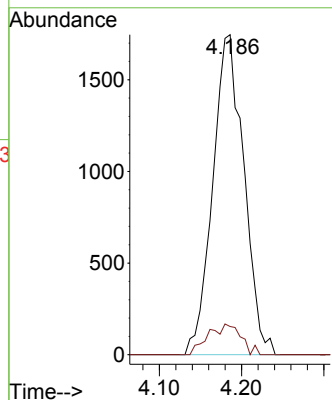
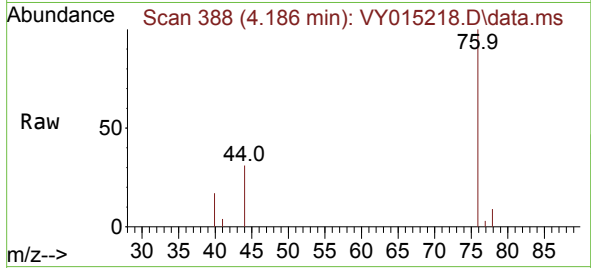




#17  
Carbon Disulfide  
Concen: 2.376 ug/l  
RT: 4.186 min Scan# 389  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

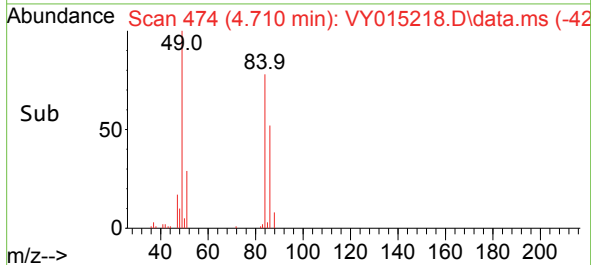
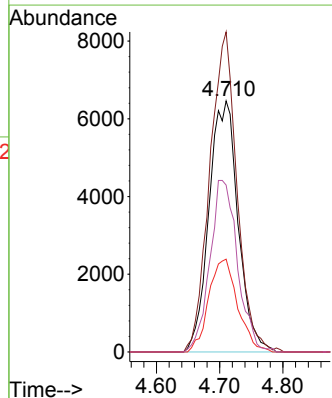
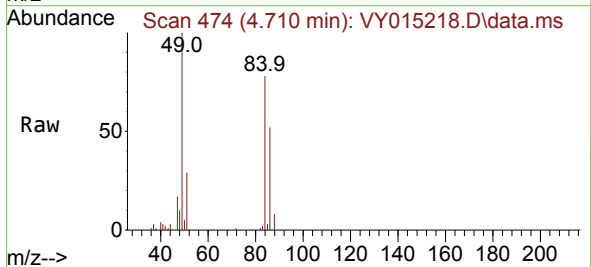
Instrument :  
MSVOA\_Y  
ClientSampleId :

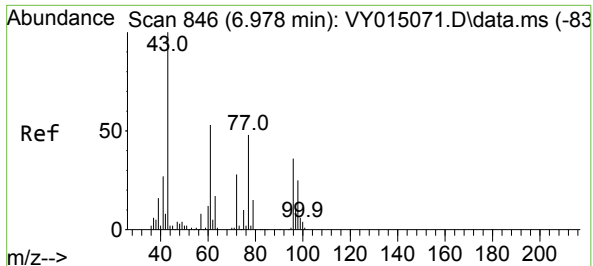
Tgt Ion: 76 Resp: 4593  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.0 10.4



#20  
Methylene Chloride  
Concen: 10.489 ug/l  
RT: 4.710 min Scan# 474  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

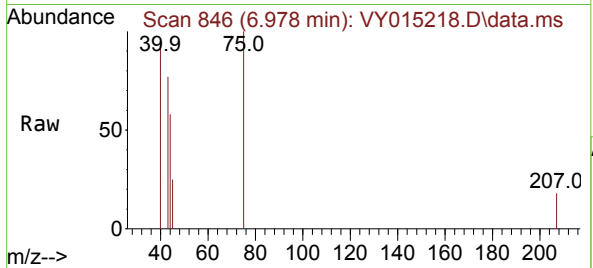
Tgt Ion: 84 Resp: 20634  
Ion Ratio Lower Upper  
84 100  
49 127.5 106.9 160.3  
51 37.0 33.2 49.8  
86 66.5 51.0 76.6



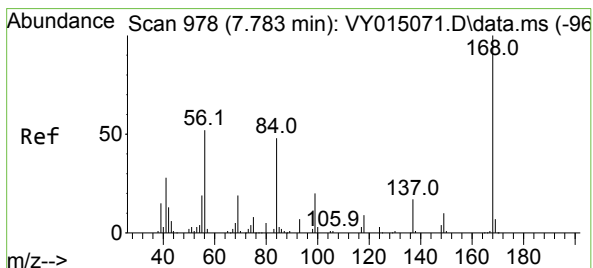
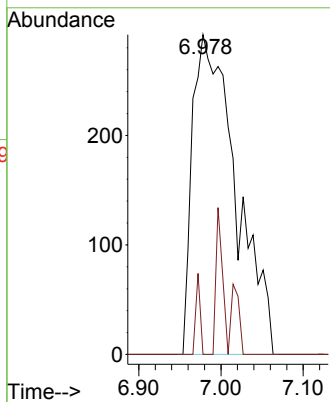
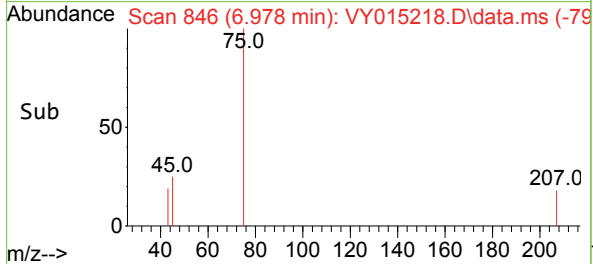


#25  
2-Butanone  
Concen: 1.224 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Instrument :  
MSVOA\_Y  
ClientSampleId :

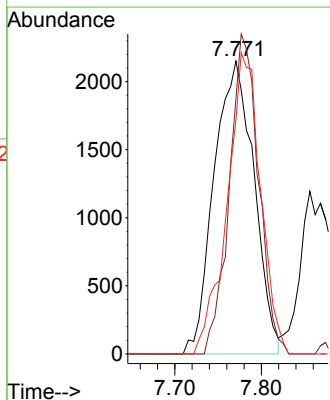
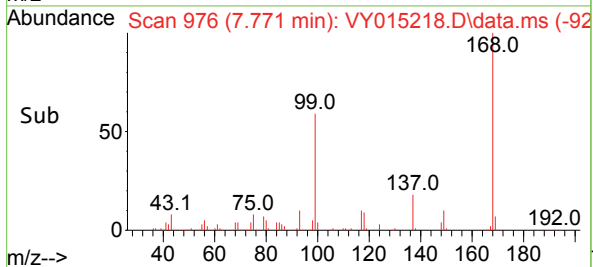
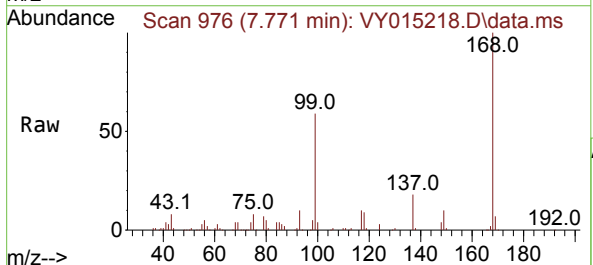


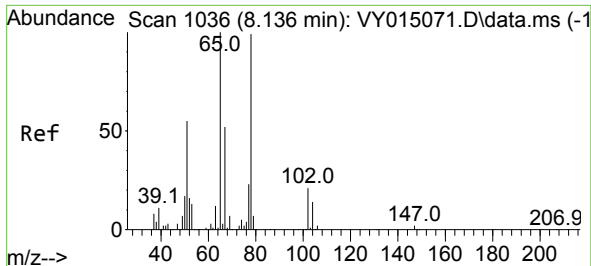
Tgt Ion: 43 Resp: 1073  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.5 30.7#



#31  
Cyclohexane  
Concen: 1.590 ug/l  
RT: 7.771 min Scan# 976  
Delta R.T. -0.006 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 56 Resp: 6875  
Ion Ratio Lower Upper  
56 100  
69 87.2 27.8 41.6#  
84 80.0 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 53.386 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015218.D

Acq: 21 Aug 2023 14:20

Instrument :

MSVOA\_Y

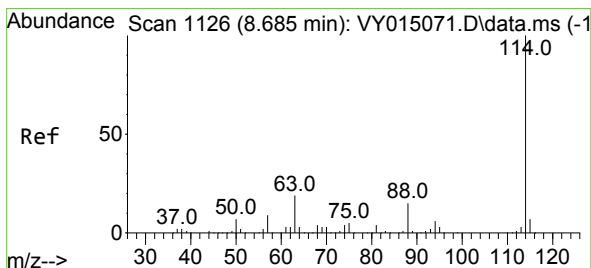
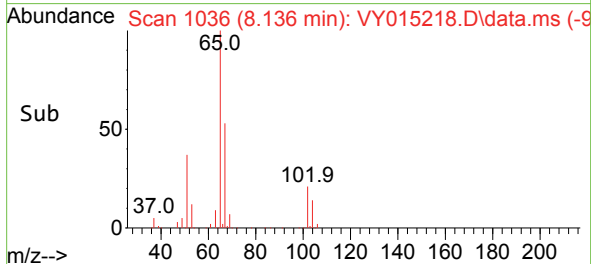
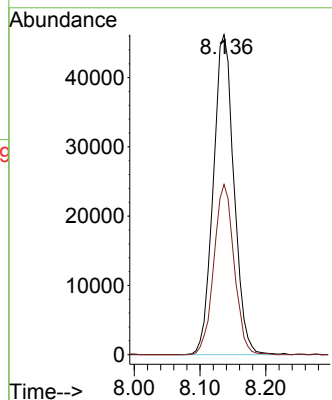
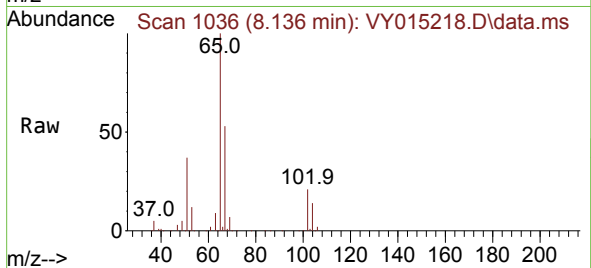
ClientSampleId :

Tgt Ion: 65 Resp: 101157

Ion Ratio Lower Upper

65 100

67 52.2 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: VY015218.D

Acq: 21 Aug 2023 14:20

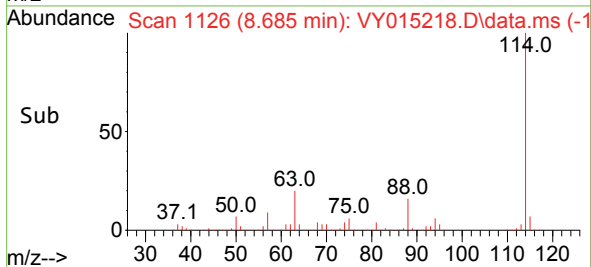
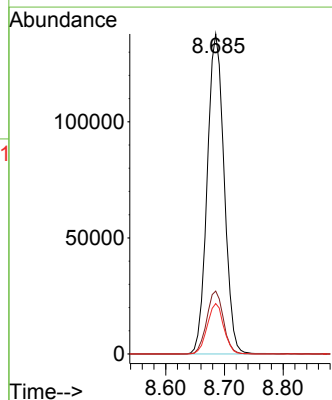
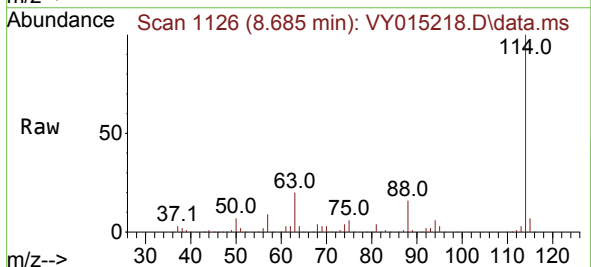
Tgt Ion: 114 Resp: 275112

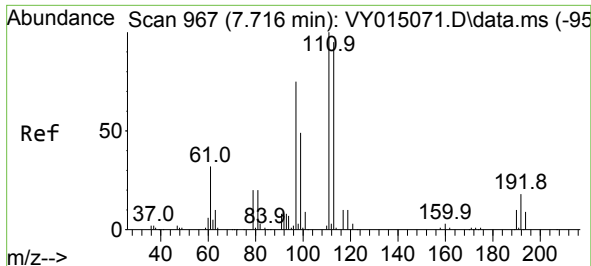
Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.4

88 15.8 0.0 30.6

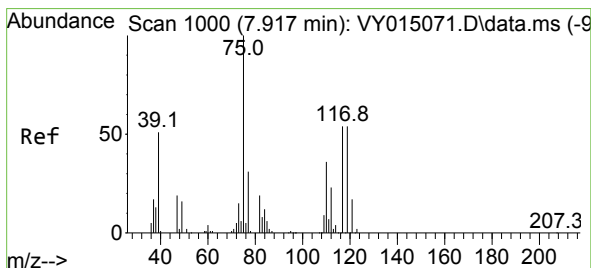
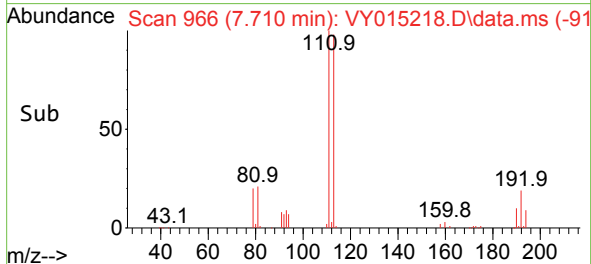
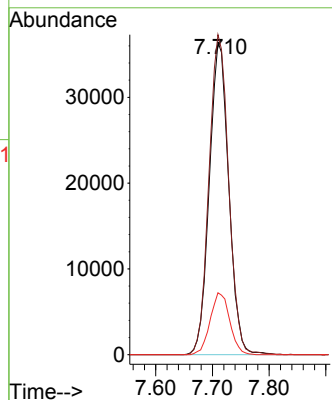
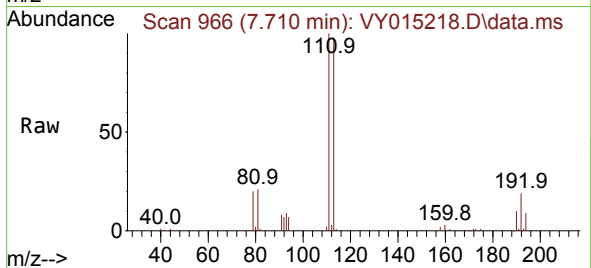




#35  
Dibromofluoromethane  
Concen: 48.895 ug/l  
RT: 7.710 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

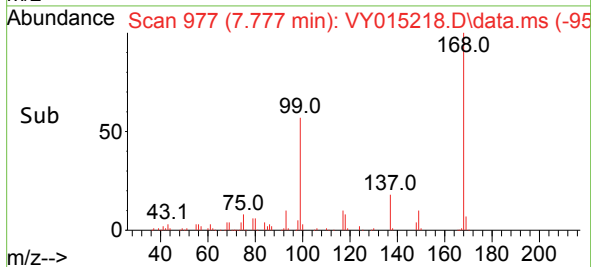
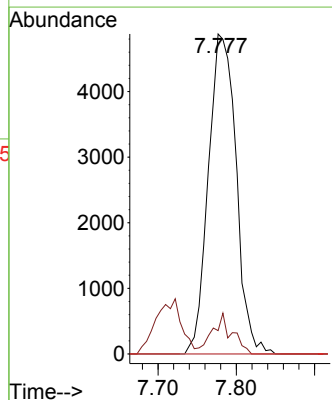
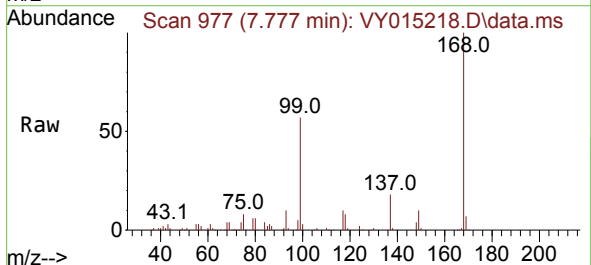
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion:113 Resp: 86539  
Ion Ratio Lower Upper  
113 100  
111 104.0 81.3 121.9  
192 20.0 16.9 25.3

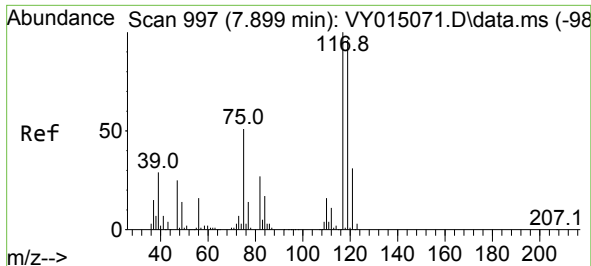


#36  
1,1-Dichloropropene  
Concen: 6.126 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.134 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 75 Resp: 11996  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.8 53.5#  
77 0.0 24.4 36.6#

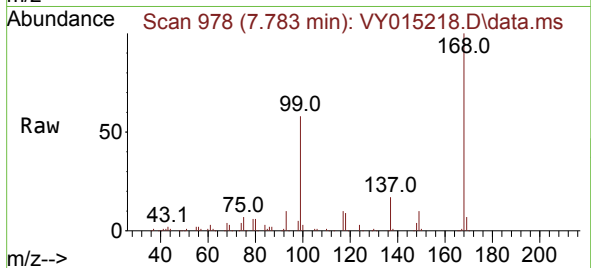




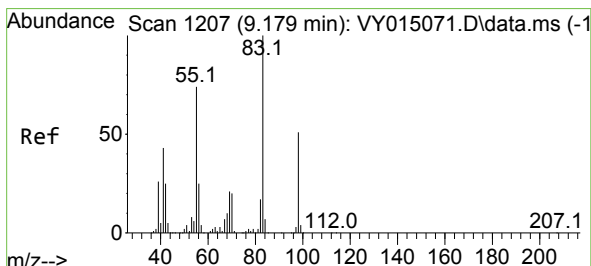
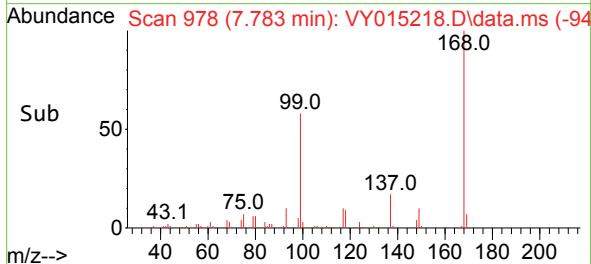
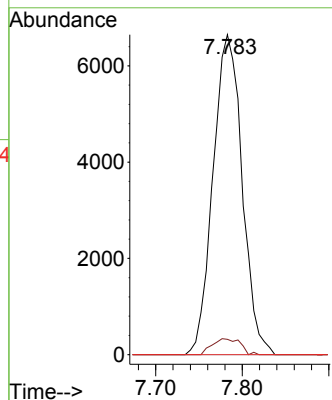


#38  
Carbon Tetrachloride  
Concen: 6.695 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Instrument :  
MSVOA\_Y  
ClientSampleId :

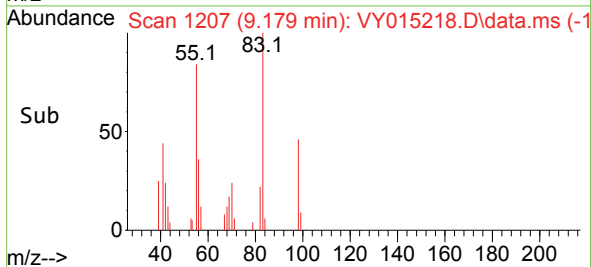
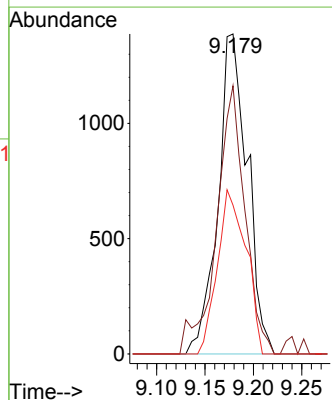
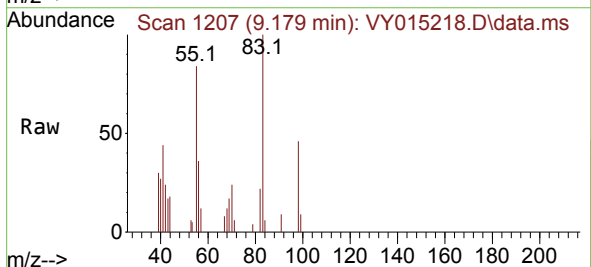


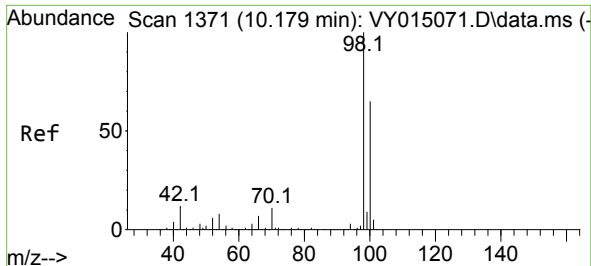
Tgt Ion:117 Resp: 15514  
Ion Ratio Lower Upper  
117 100  
119 4.8 76.4 114.6#  
121 0.0 25.8 38.6#



#39  
Methylcyclohexane  
Concen: 1.332 ug/l  
RT: 9.179 min Scan# 1207  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 83 Resp: 2924  
Ion Ratio Lower Upper  
83 100  
55 83.8 63.0 94.4  
98 46.5 37.4 56.2

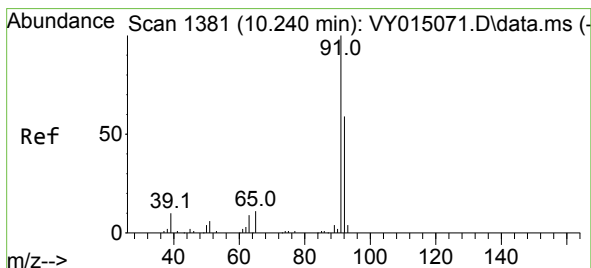
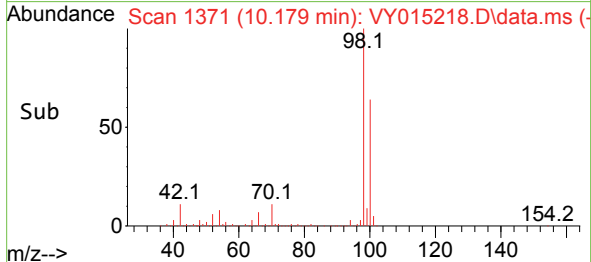
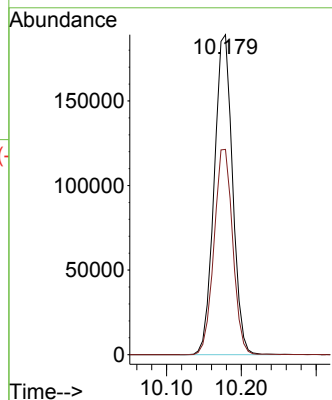
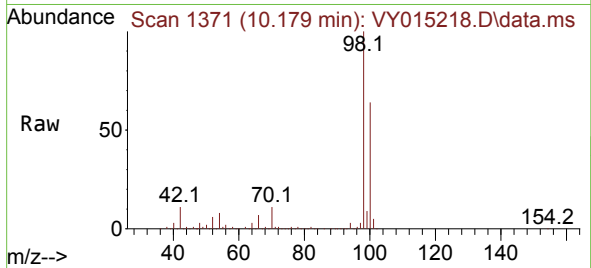




#50  
Toluene-d8  
Concen: 48.967 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

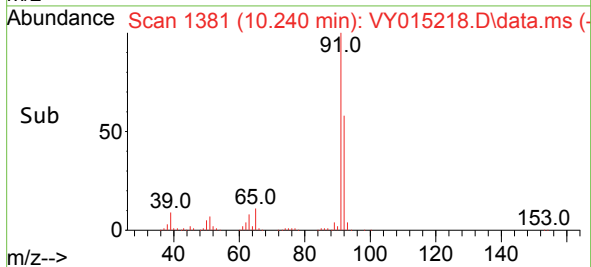
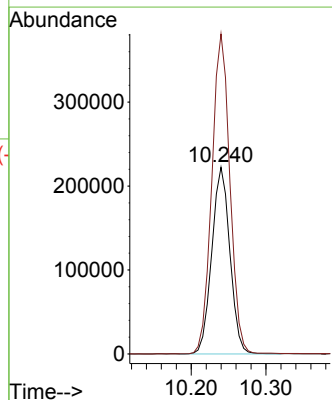
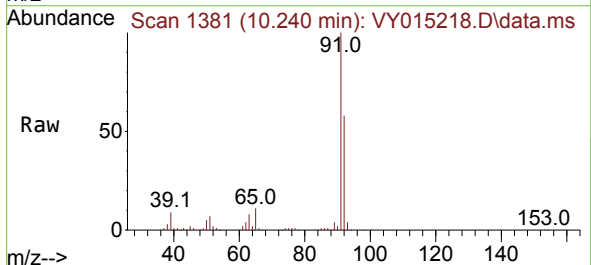
Instrument :  
MSVOA\_Y  
ClientSampleId :

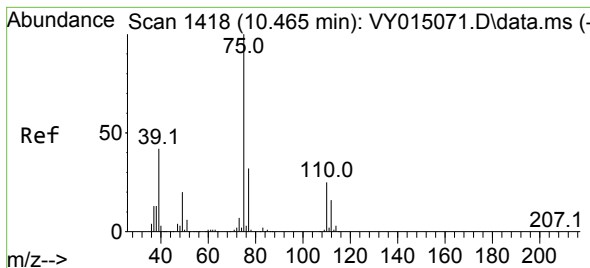
Tgt Ion: 98 Resp: 322620  
Ion Ratio Lower Upper  
98 100  
100 65.5 50.1 75.1



#52  
Toluene  
Concen: 96.015 ug/l  
RT: 10.240 min Scan# 1381  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 92 Resp: 374642  
Ion Ratio Lower Upper  
92 100  
91 171.3 143.8 215.6

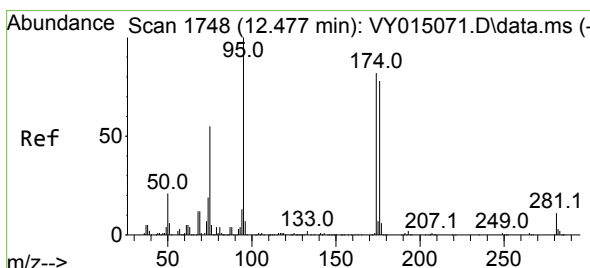
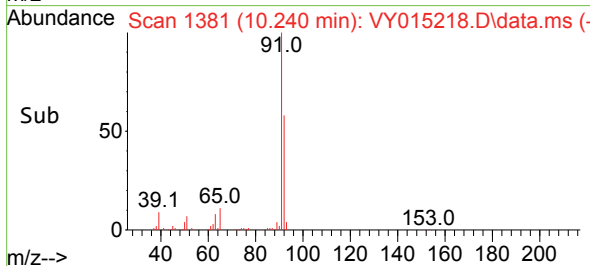
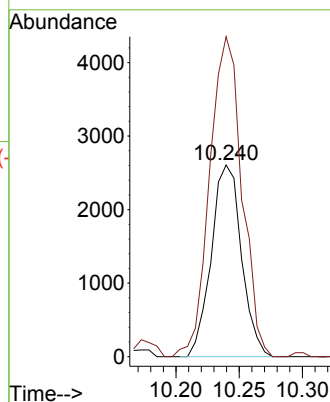
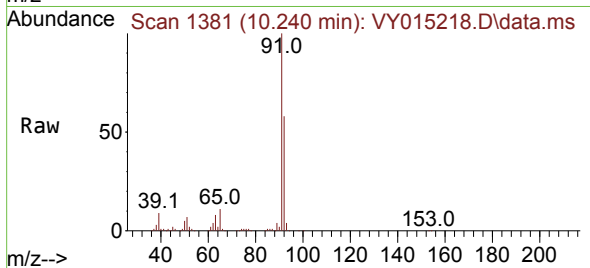




#53  
t-1,3-Dichloropropene  
Concen: 1.636 ug/l  
RT: 10.240 min Scan# 1381  
Delta R.T. -0.226 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

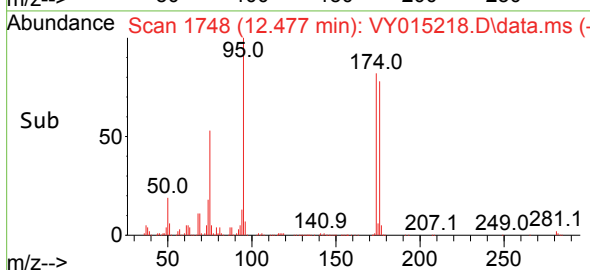
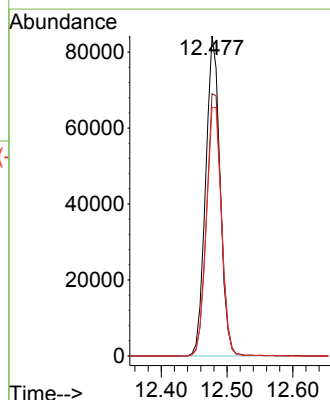
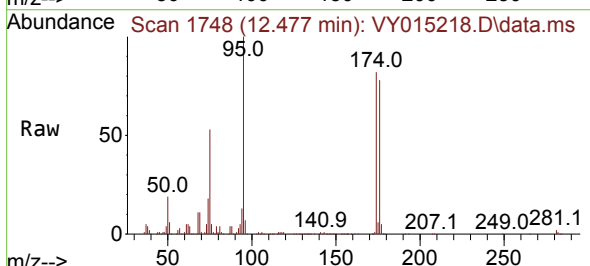
Instrument :  
MSVOA\_Y  
ClientSampleId :

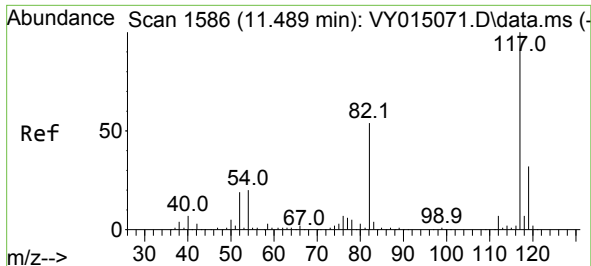
Tgt Ion: 75 Resp: 4320  
Ion Ratio Lower Upper  
75 100  
77 166.9 25.0 37.4#



#62  
4-Bromofluorobenzene  
Concen: 53.460 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

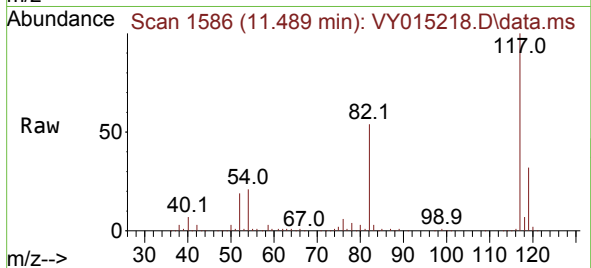
Tgt Ion: 95 Resp: 128649  
Ion Ratio Lower Upper  
95 100  
174 84.3 0.0 178.2  
176 81.1 0.0 173.8



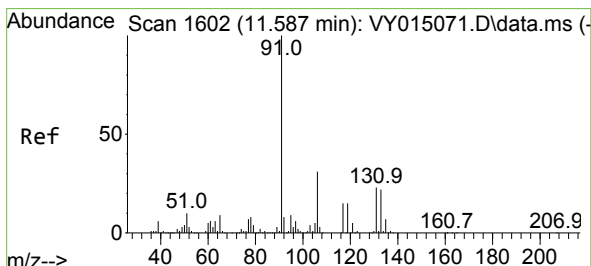
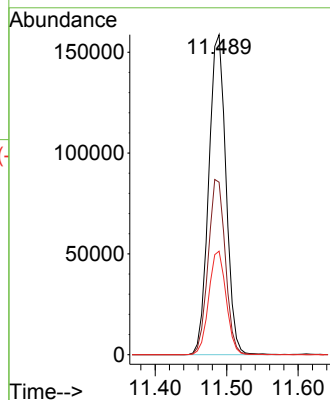
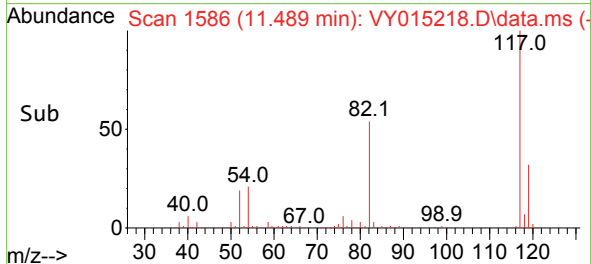


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Instrument :  
MSVOA\_Y  
ClientSampleId :

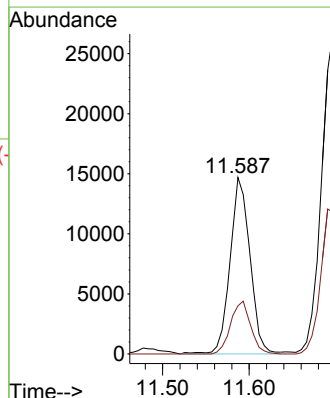
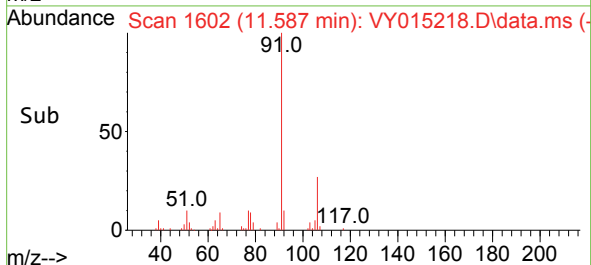
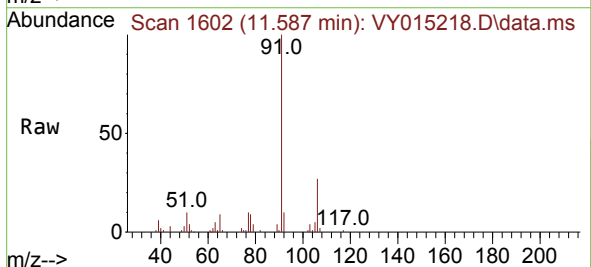


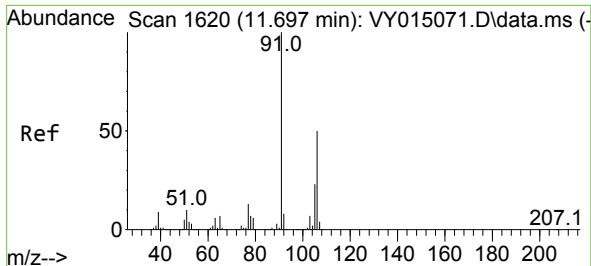
Tgt Ion:117 Resp: 265294  
Ion Ratio Lower Upper  
117 100  
82 53.9 43.4 65.0  
119 32.3 26.3 39.5



#67  
Ethyl Benzene  
Concen: 2.778 ug/l  
RT: 11.587 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 91 Resp: 23525  
Ion Ratio Lower Upper  
91 100  
106 27.2 24.6 36.8

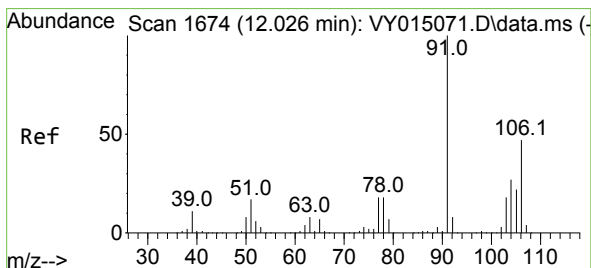
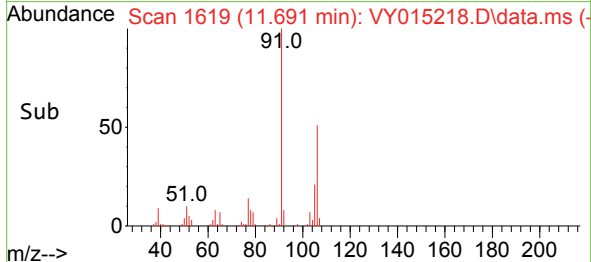
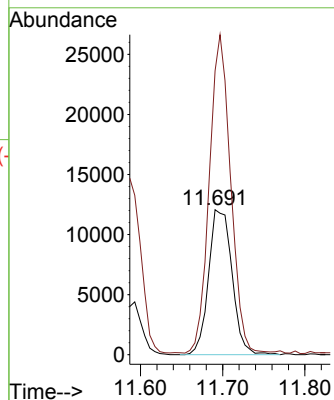
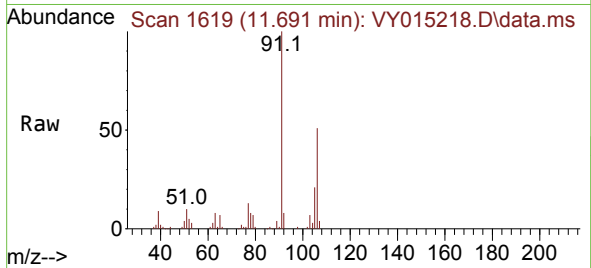




#68  
m/p-Xylenes  
Concen: 7.449 ug/l  
RT: 11.691 min Scan# 1619  
Delta R.T. -0.006 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

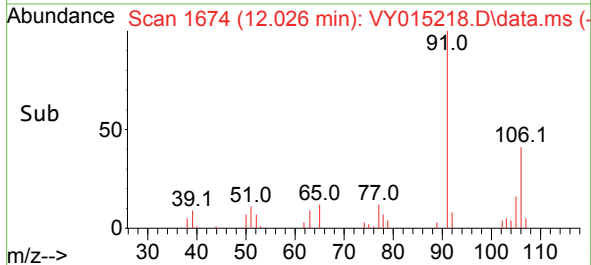
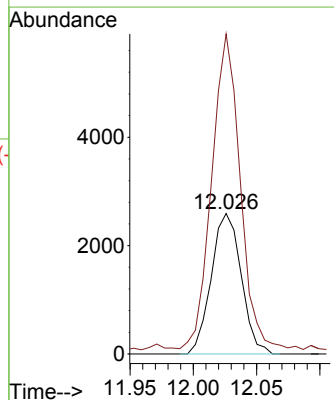
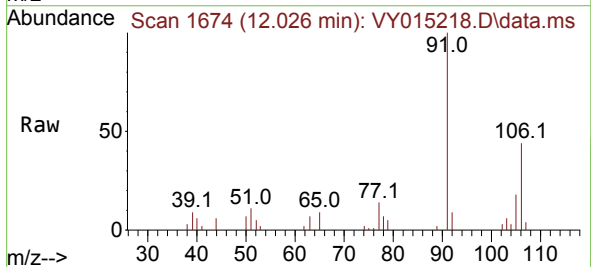
Instrument :  
MSVOA\_Y  
ClientSampleId :

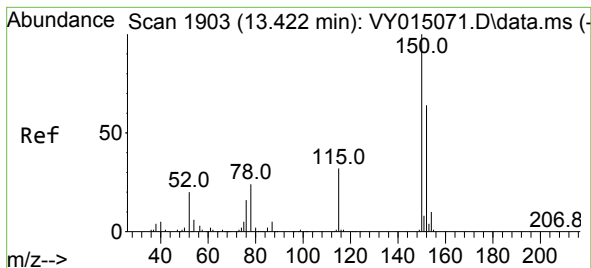
Tgt Ion:106 Resp: 23961  
Ion Ratio Lower Upper  
106 100  
91 198.5 166.1 249.1



#69  
o-Xylene  
Concen: 1.329 ug/l  
RT: 12.026 min Scan# 1674  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion:106 Resp: 4259  
Ion Ratio Lower Upper  
106 100  
91 213.7 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

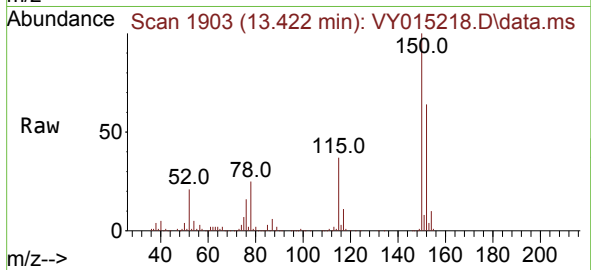
Lab File: VY015218.D

Acq: 21 Aug 2023 14:20

Instrument :

MSVOA\_Y

ClientSampleId :



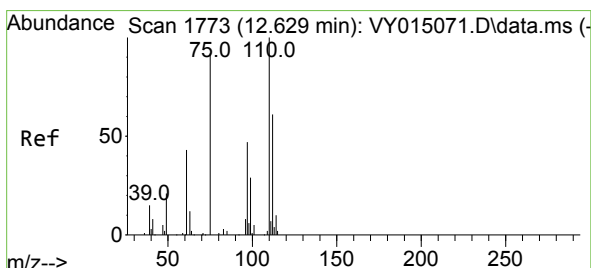
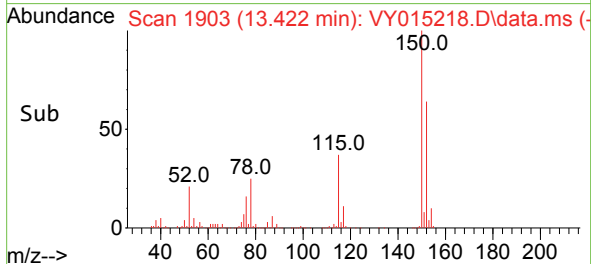
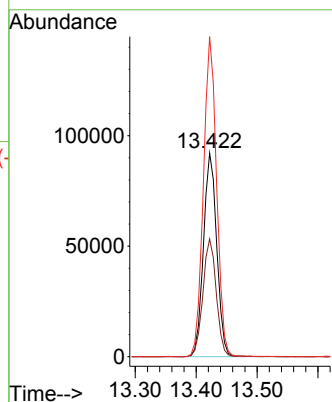
Tgt Ion:152 Resp: 139645

Ion Ratio Lower Upper

152 100

115 58.3 28.8 86.5

150 156.3 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 40.198 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015218.D

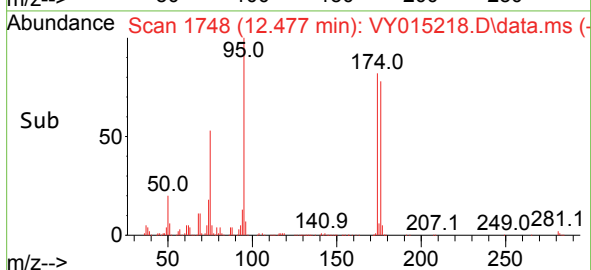
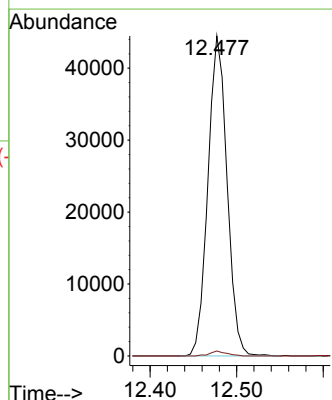
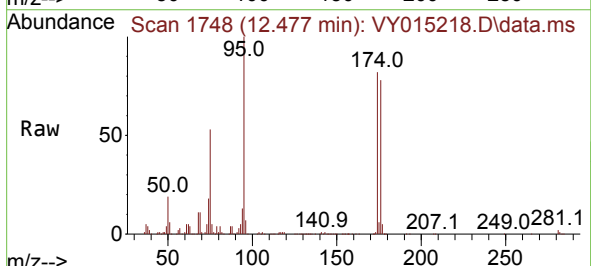
Acq: 21 Aug 2023 14:20

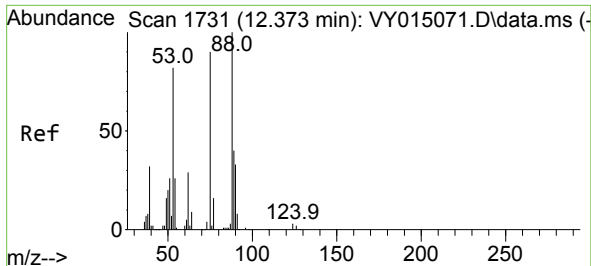
Tgt Ion: 75 Resp: 68200

Ion Ratio Lower Upper

75 100

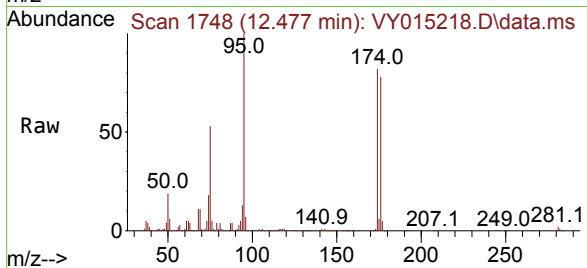
77 1.4 0.0 0.0#



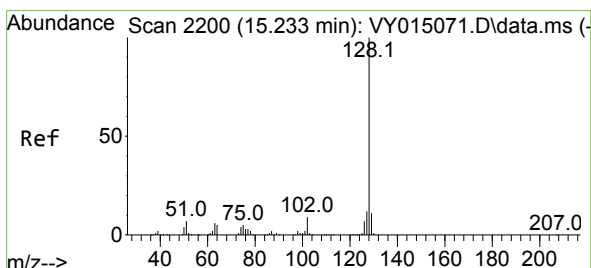
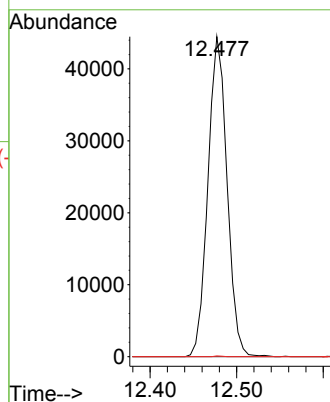
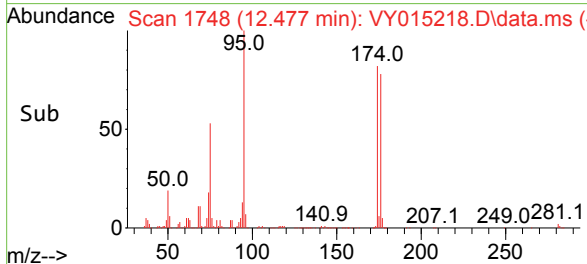


#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.295 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Instrument :  
MSVOA\_Y  
ClientSampleId :



Tgt Ion: 75 Resp: 68200  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.1 37.4 56.0#



#95  
Naphthalene  
Concen: 1.487 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. 0.000 min  
Lab File: VY015218.D  
Acq: 21 Aug 2023 14:20

Tgt Ion: 128 Resp: 9643  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.8 16.2  
129 12.6 8.6 13.0

