

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092822\  
 Data File : VY010721.D  
 Acq On : 28 Sep 2022 16:59  
 Operator : KP/MD  
 Sample : N4808-02RE  
 Misc : 6.61g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 D22022-17.5-18

Quant Time: Sep 29 01:14:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 2022  
 Response via : Initial Calibration

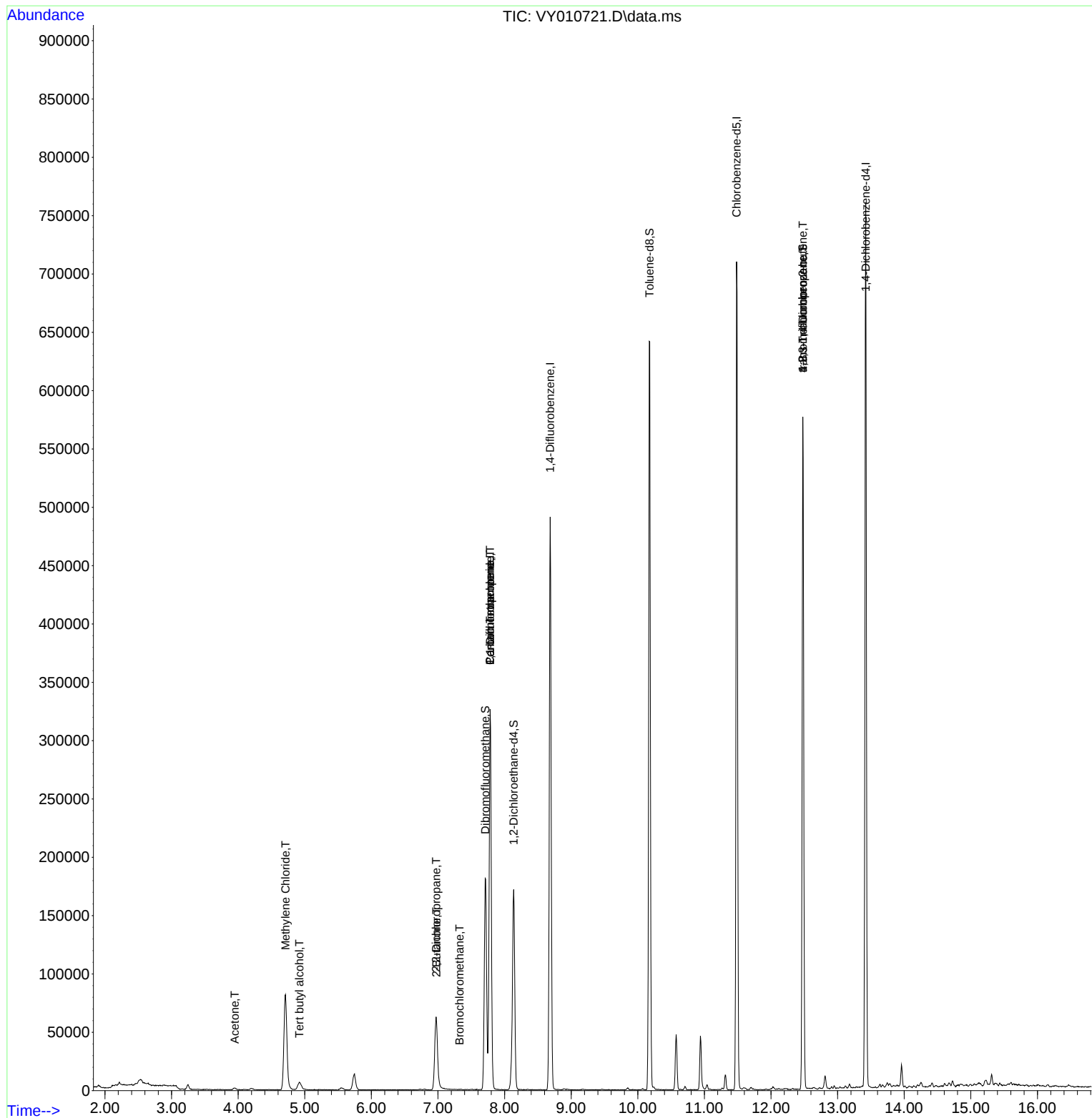
| Compound                      | R.T.   | QIon  | Response | Conc         | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|--------------|------------|----------|
| -----                         |        |       |          |              |            |          |
| Internal Standards            |        |       |          |              |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 249658   | 50.000       | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 417397   | 50.000       | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.483 | 117   | 386512   | 50.000       | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 190974   | 50.000       | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |              |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 127542   | 53.411       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery     | = 106.820% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 131223   | 49.261       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery     | = 98.520%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 429510   | 44.025       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery     | = 88.060%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 163548   | 44.463       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery     | = 88.920%  |          |
| Target Compounds              |        |       |          |              |            |          |
|                               |        |       |          |              | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.900  | 85    | 1577     | Below Cal    |            | 93       |
| 3) Chloromethane              | 2.107  | 50    | 447      | Below Cal    |            | 93       |
| 4) Vinyl Chloride             | 2.302  | 62    | 24       | Below Cal    | #          | 43       |
| 5) Bromomethane               | 2.662  | 94    | 322      | Below Cal    |            | 88       |
| 11) Tert butyl alcohol        | 4.917  | 59    | 7150     | 23.339 ug/l  | #          | 79       |
| 16) Acetone                   | 3.948  | 43    | 2753     | 5.653 ug/l   | #          | 77       |
| 17) Carbon Disulfide          | 4.204  | 76    | 181      | Below Cal    | #          | 75       |
| 18) Methyl Acetate            | 4.472  | 43    | 178      | Below Cal    | #          | 56       |
| 20) Methylene Chloride        | 4.710  | 84    | 63526    | 16.574 ug/l  |            | 86       |
| 25) 2-Butanone                | 6.978  | 43    | 4031     | 5.292 ug/l   | #          | 82       |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 4904     | 1.354 ug/l   | #          | 55       |
| 28) Bromochloromethane        | 7.326  | 49    | 45       | 5.120 ug/l   | #          | 16       |
| 31) Cyclohexane               | 7.777  | 56    | 5212     | Below Cal    | #          | 1        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 19911    | 6.708 ug/l   | #          | 50       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 24810    | 7.270 ug/l   | #          | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 84893    | 46.575 ug/l  | #          | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 84893    | 103.556 ug/l | #          | 7        |
| -----                         |        |       |          |              |            |          |

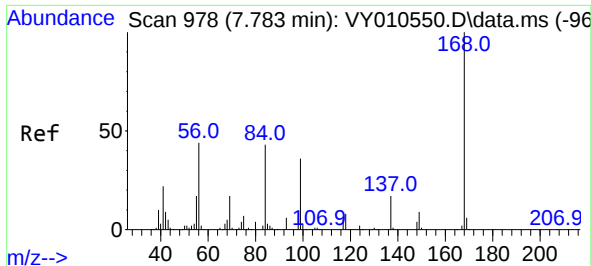
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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D22022-17.5-18

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QLast Update : Tue Sep 20 01:02:44 2022  
Response via : Initial Calibration

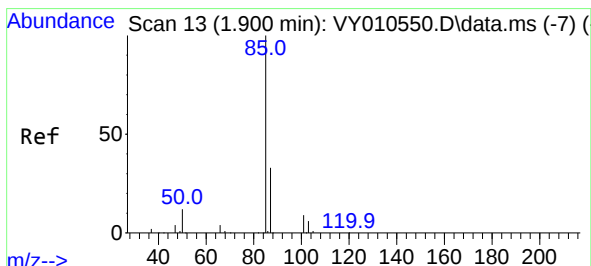
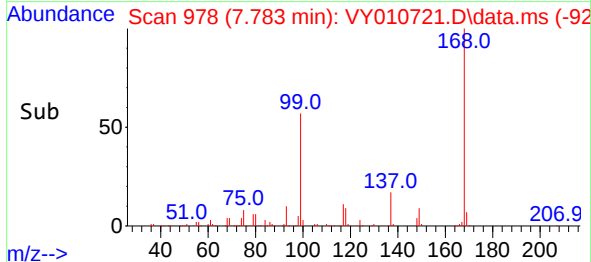
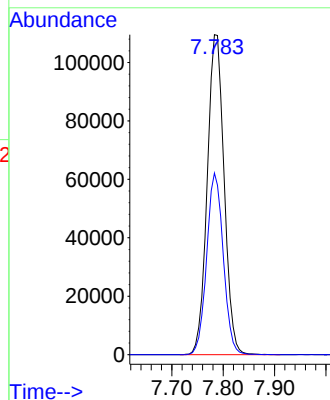
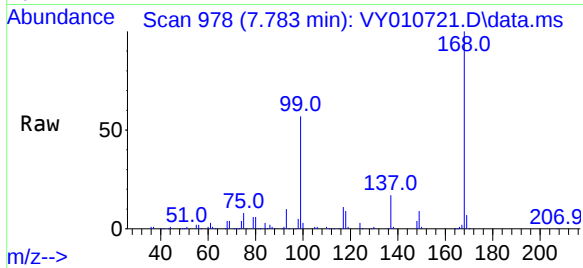




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

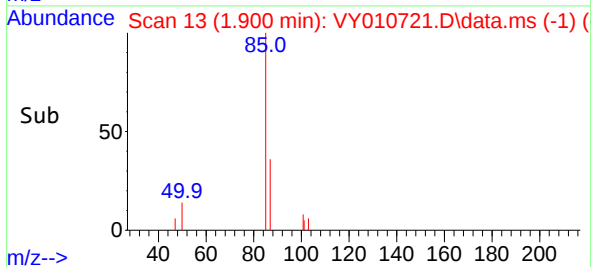
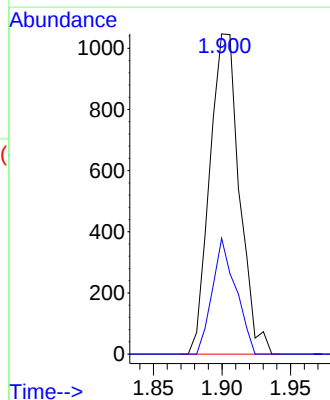
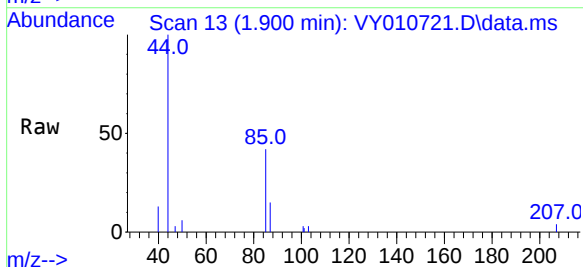
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

Tgt Ion:168 Resp: 249658  
Ion Ratio Lower Upper  
168 100  
99 56.8 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 85 Resp: 1577  
Ion Ratio Lower Upper  
85 100  
87 36.2 16.1 48.2

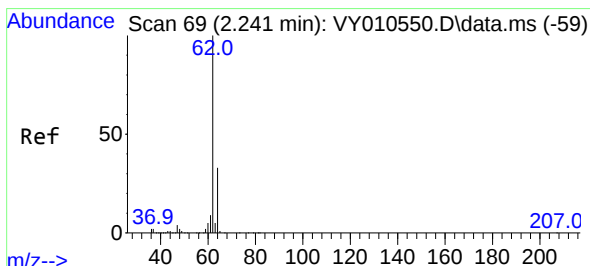
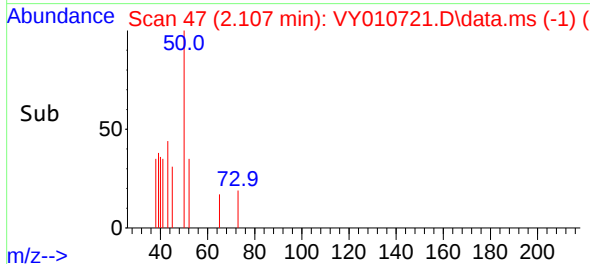
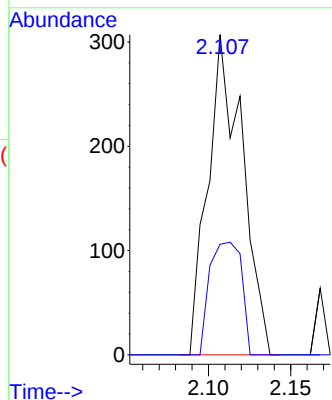
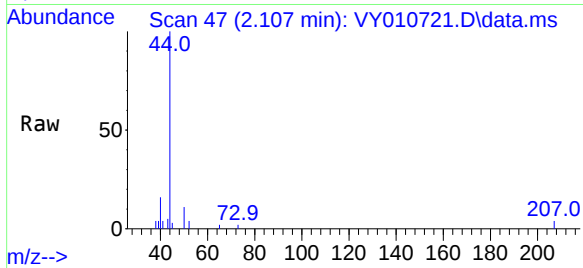




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.107 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

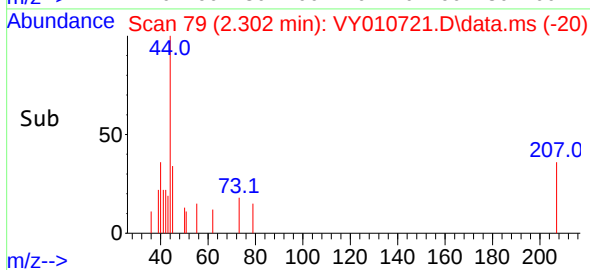
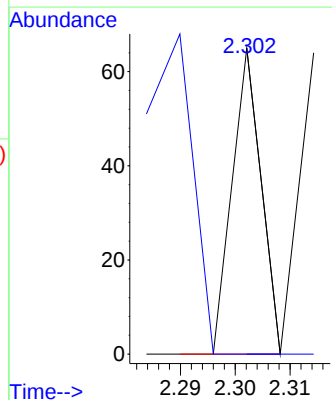
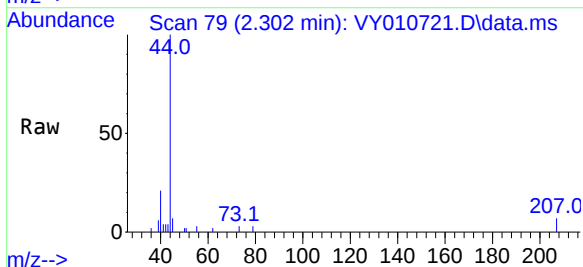
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

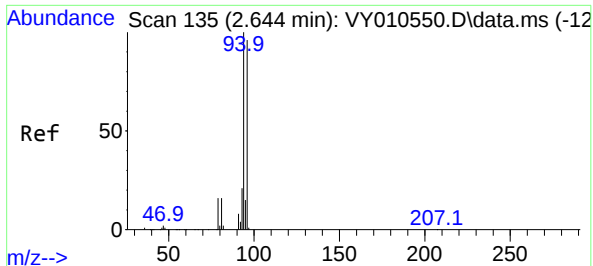
Tgt Ion: 50 Resp: 447  
Ion Ratio Lower Upper  
50 100  
52 34.5 24.6 37.0



#4  
Vinyl Chloride  
Concen: Below Cal  
RT: 2.302 min Scan# 79  
Delta R.T. 0.061 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 62 Resp: 24  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.0 37.6#

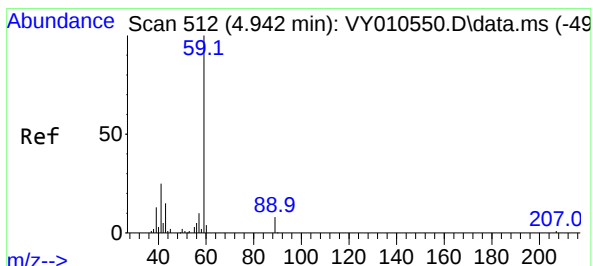
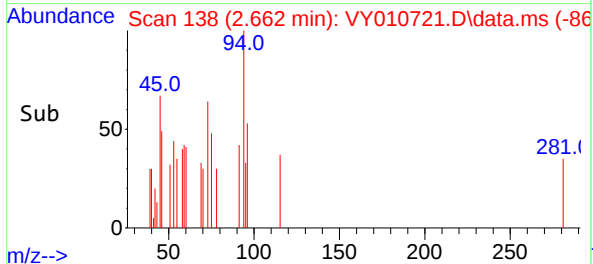
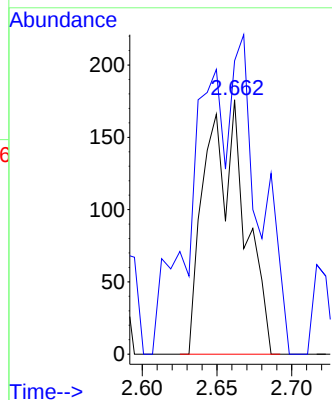
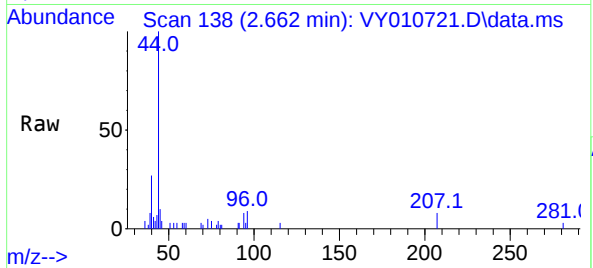




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

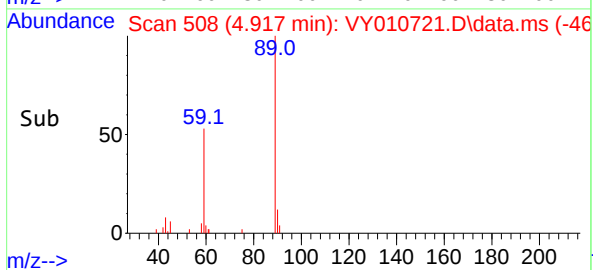
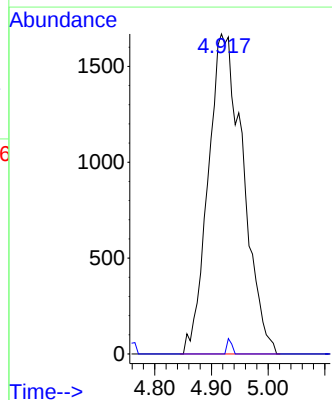
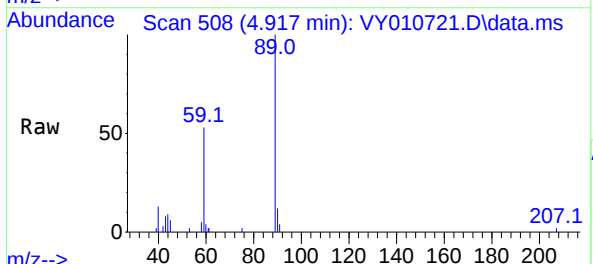
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

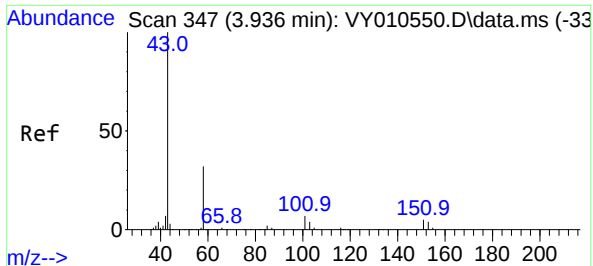
Tgt Ion: 94 Resp: 322  
Ion Ratio Lower Upper  
94 100  
96 80.7 73.5 110.3



#11  
Tert butyl alcohol  
Concen: 23.339 ug/l  
RT: 4.917 min Scan# 508  
Delta R.T. -0.025 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 59 Resp: 7150  
Ion Ratio Lower Upper  
59 100  
57 0.7 6.4 9.6#

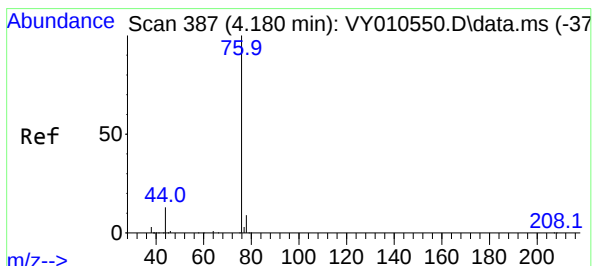
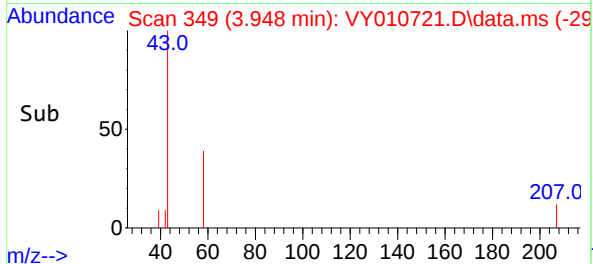
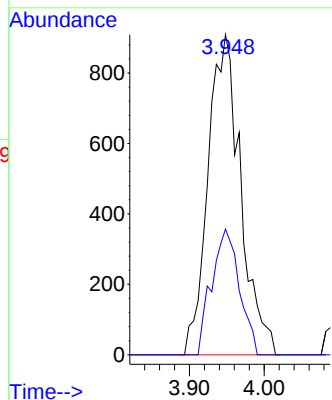
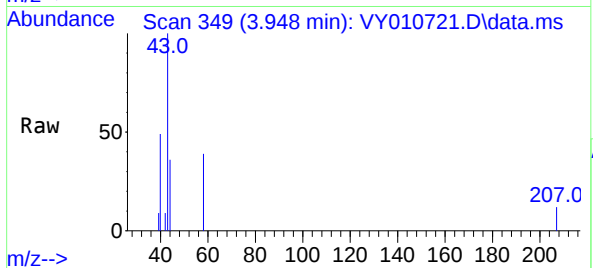




#16  
Acetone  
Concen: 5.653 ug/l  
RT: 3.948 min Scan# 347  
Delta R.T. 0.012 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

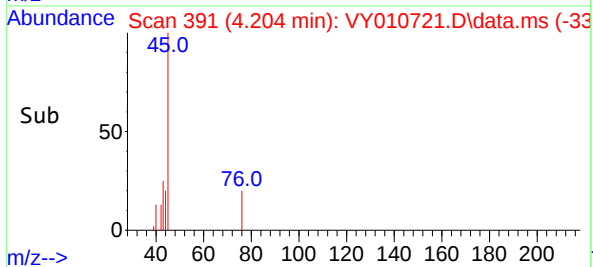
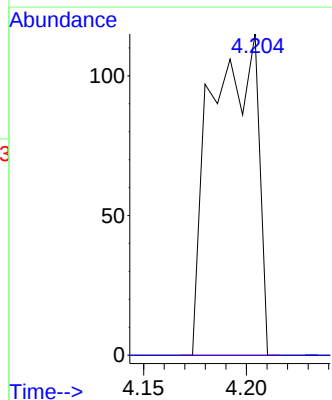
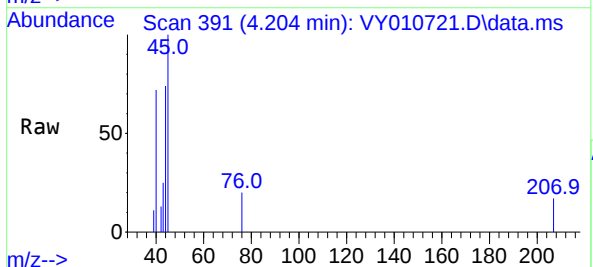
Instrument :  
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D22022-17.5-18

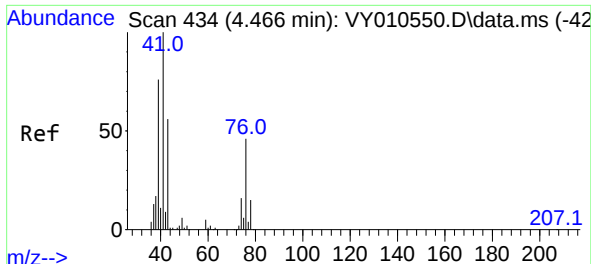
Tgt Ion: 43 Resp: 2753  
Ion Ratio Lower Upper  
43 100  
58 39.3 22.0 33.0#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.204 min Scan# 391  
Delta R.T. 0.024 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 76 Resp: 181  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#

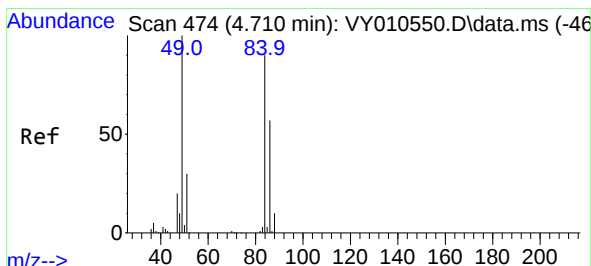
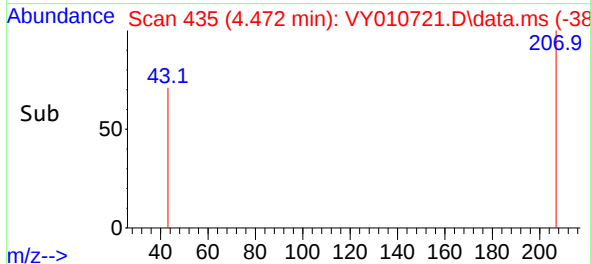
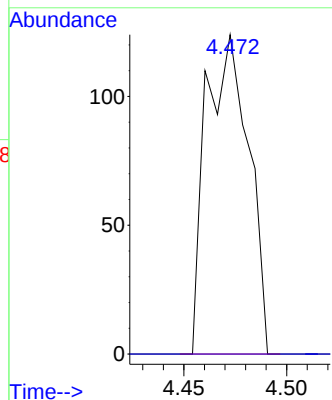
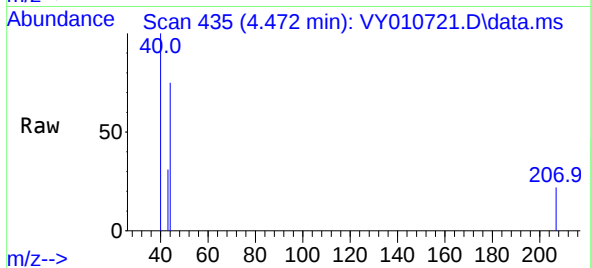




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.472 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

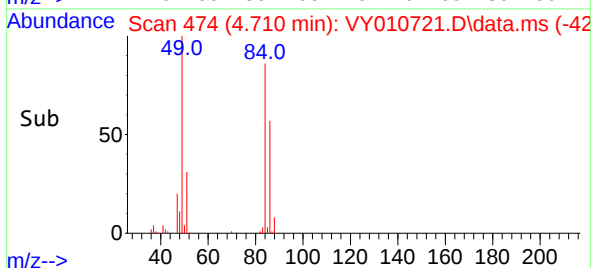
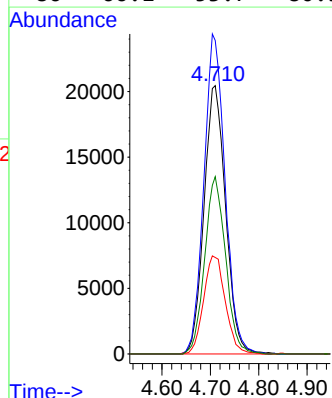
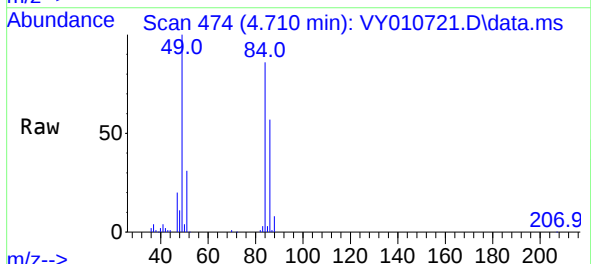
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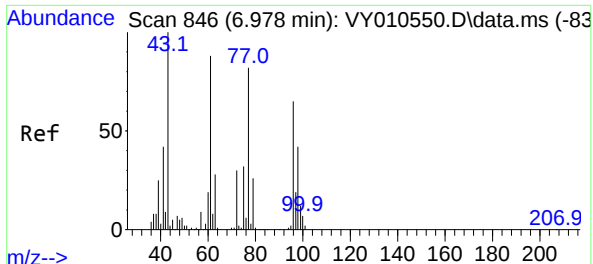
Tgt Ion: 43 Resp: 178  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



#20  
Methylene Chloride  
Concen: 16.574 ug/l  
RT: 4.710 min Scan# 474  
Delta R.T. 0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 84 Resp: 63526  
Ion Ratio Lower Upper  
84 100  
49 116.8 114.4 171.6  
51 36.0 35.3 52.9  
86 66.1 53.7 80.5

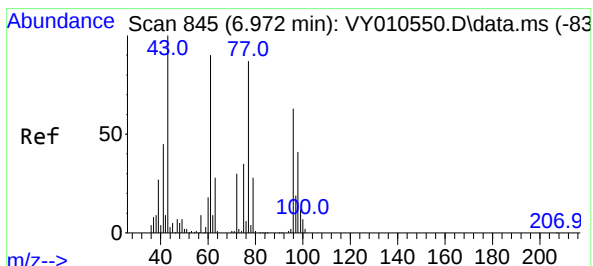
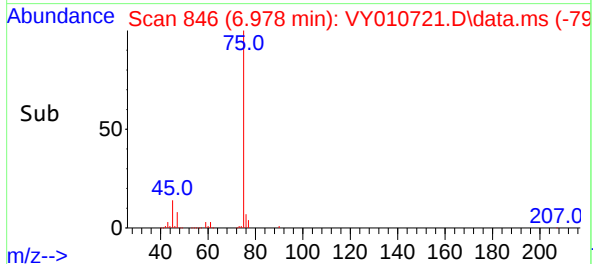
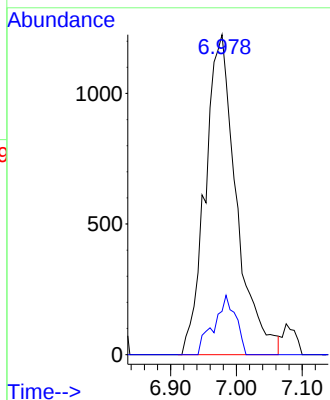
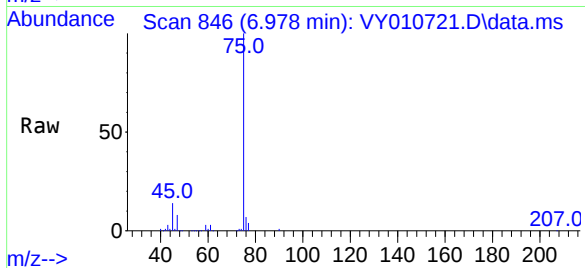




#25  
2-Butanone  
Concen: 5.292 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

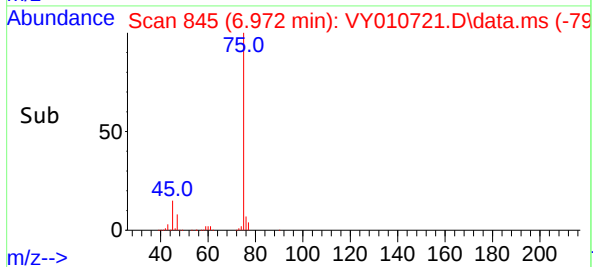
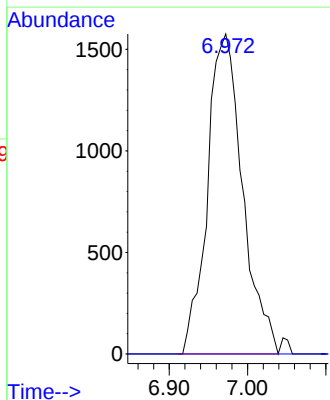
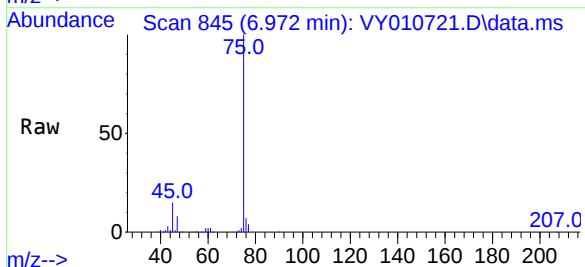
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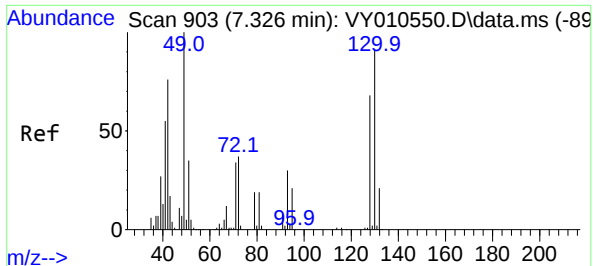
Tgt Ion: 43 Resp: 4031  
Ion Ratio Lower Upper  
43 100  
72 13.6 17.7 26.5#



#26  
2,2-Dichloropropane  
Concen: 1.354 ug/l  
RT: 6.972 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 77 Resp: 4904  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.4 31.4#

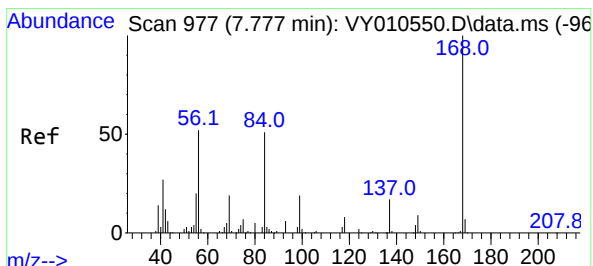
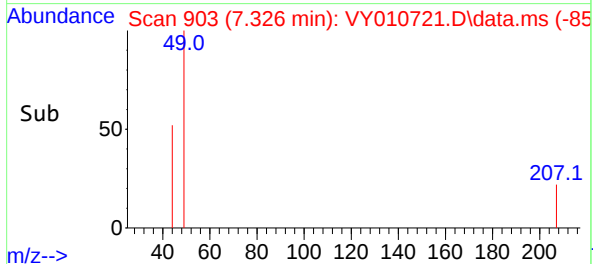
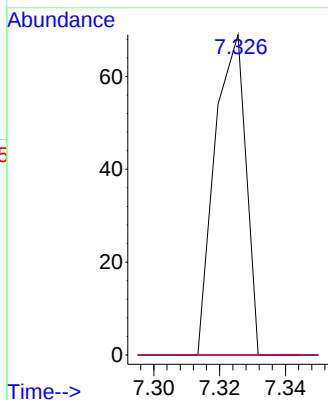
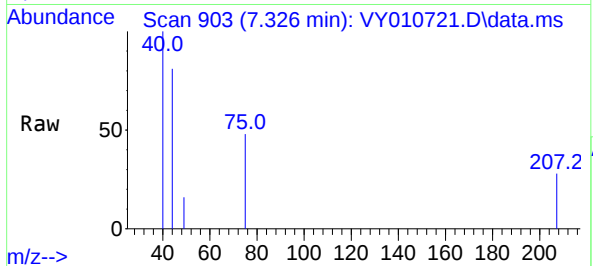




#28  
Bromochloromethane  
Concen: 5.120 ug/l  
RT: 7.326 min Scan# 903  
Delta R.T. -0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

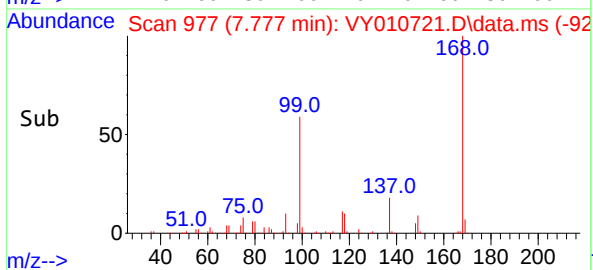
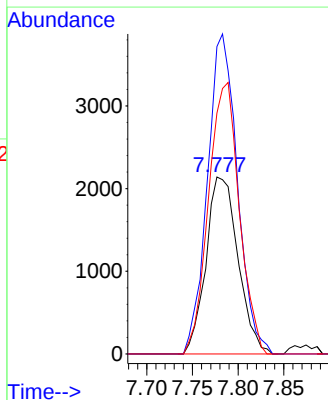
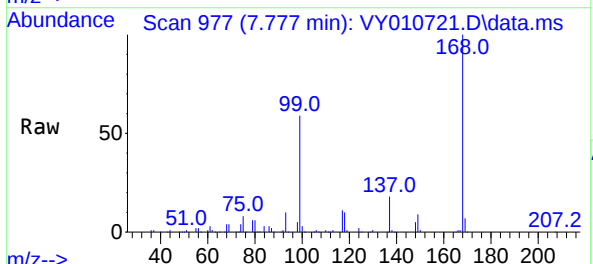
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

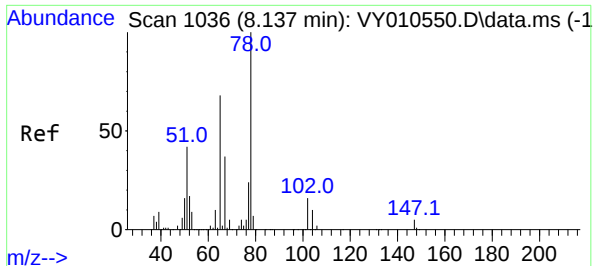
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 45    |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 0.0   | 0.0   | 2.2   |
| 130      | 0.0   | 55.4  | 83.0  |



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.777 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5212  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 173.7 | 26.7  | 40.1  |
| 84       | 136.1 | 67.2  | 100.8 |





#33

1,2-Dichloroethane-d4

Concen: 53.411 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.001 min

Lab File: VY010721.D

Acq: 28 Sep 2022 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

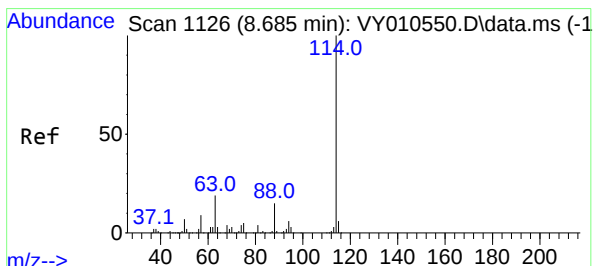
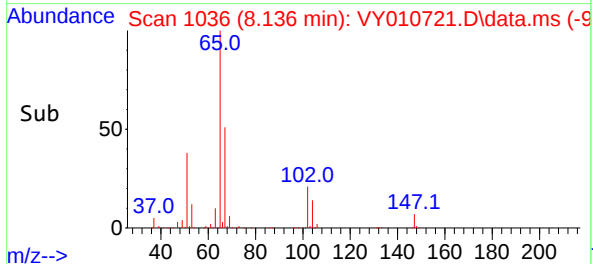
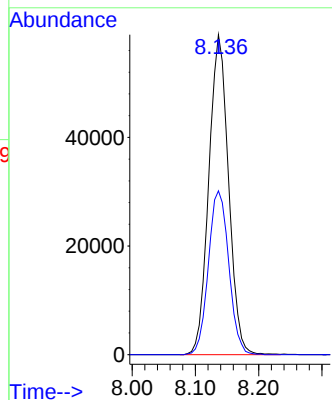
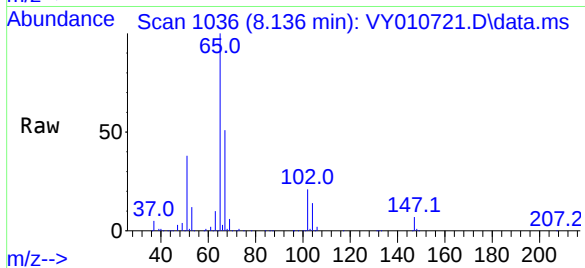
D22022-17.5-18

Tgt Ion: 65 Resp: 127542

Ion Ratio Lower Upper

65 100

67 52.9 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010721.D

Acq: 28 Sep 2022 16:59

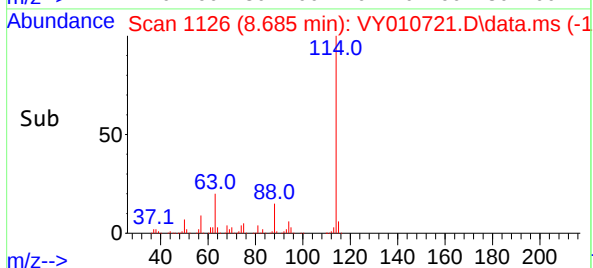
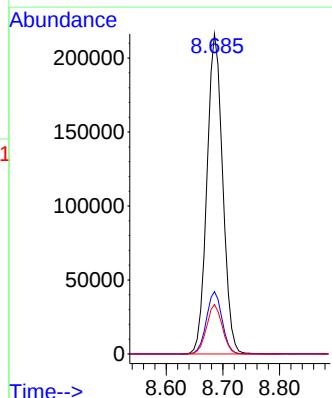
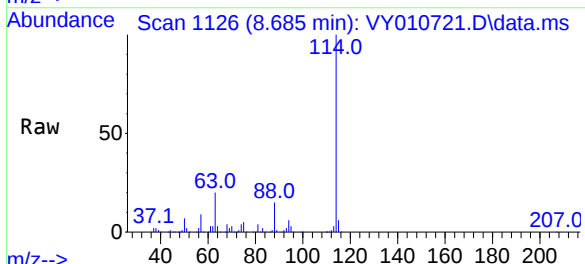
Tgt Ion: 114 Resp: 417397

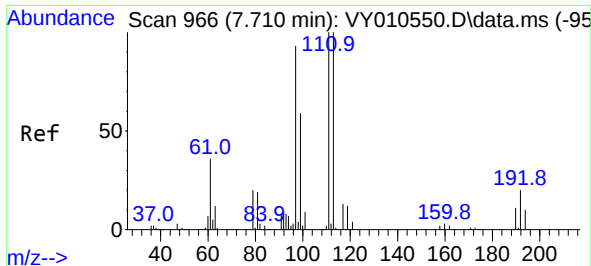
Ion Ratio Lower Upper

114 100

63 19.5 0.0 43.2

88 15.4 0.0 31.8

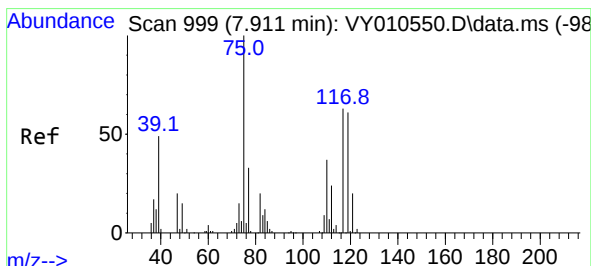
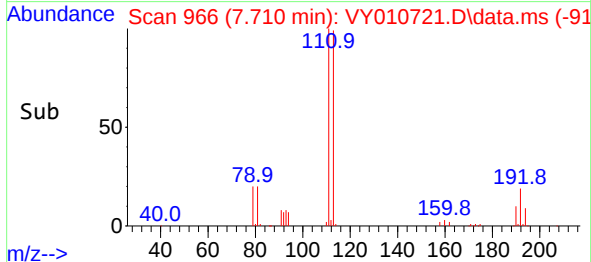
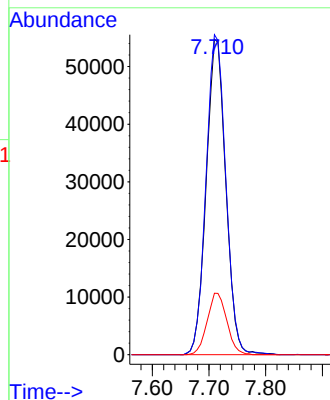
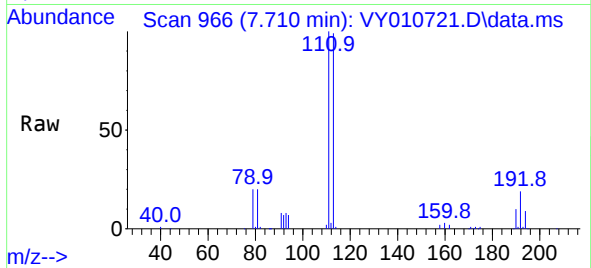




#35  
Dibromofluoromethane  
Concen: 49.261 ug/l  
RT: 7.710 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

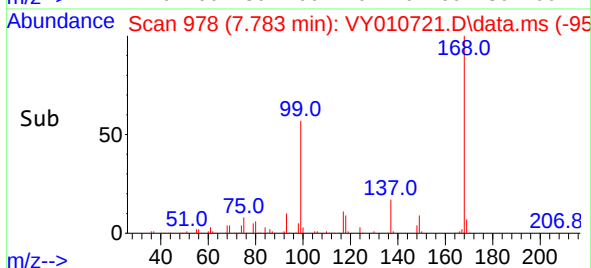
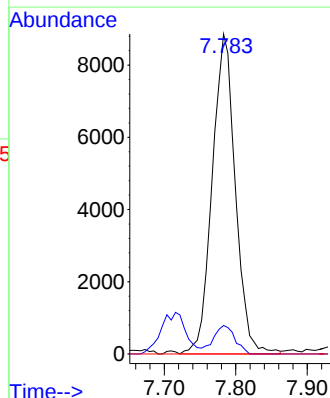
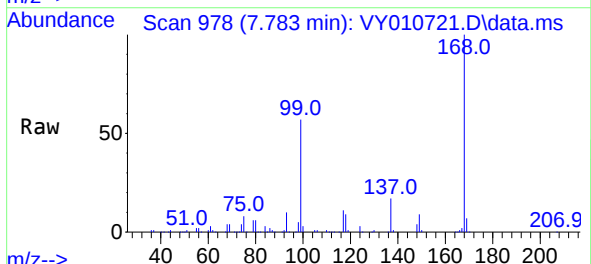
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

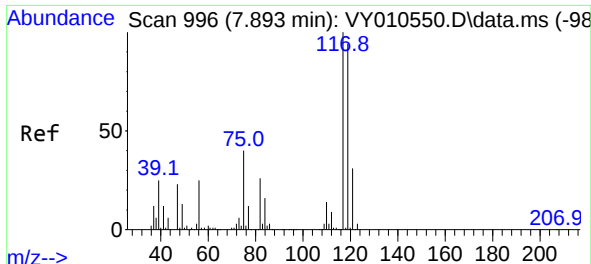
Tgt Ion:113 Resp: 131223  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.6 124.0  
192 19.5 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 6.708 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.128 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 75 Resp: 19911  
Ion Ratio Lower Upper  
75 100  
110 8.2 17.1 51.2#  
77 0.0 24.4 36.6#

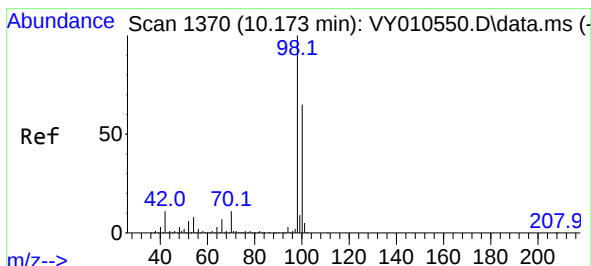
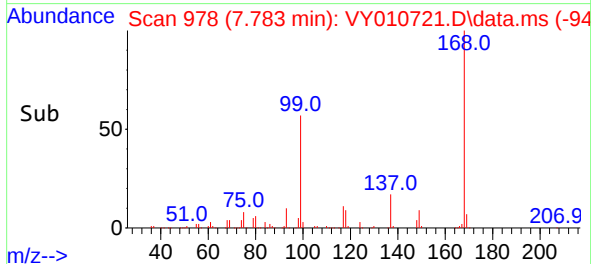
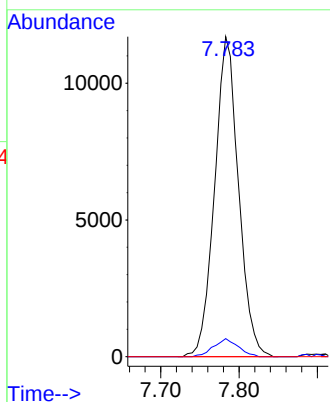
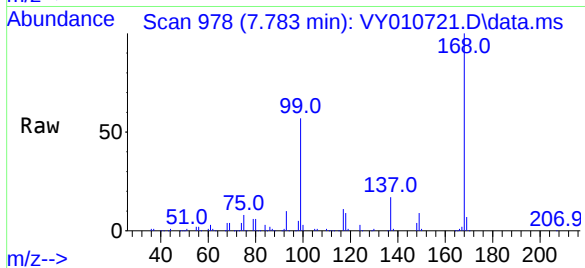




#38  
Carbon Tetrachloride  
Concen: 7.270 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

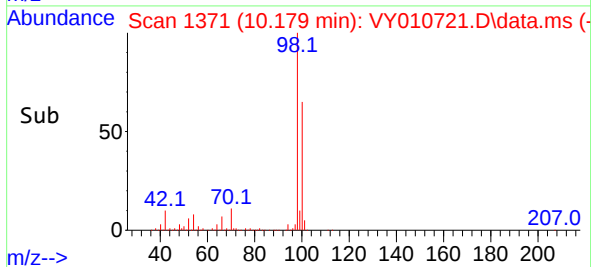
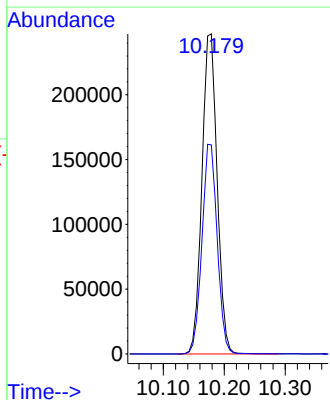
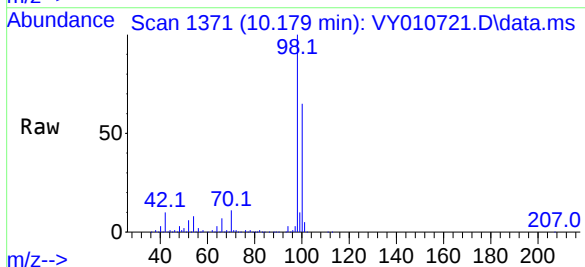
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

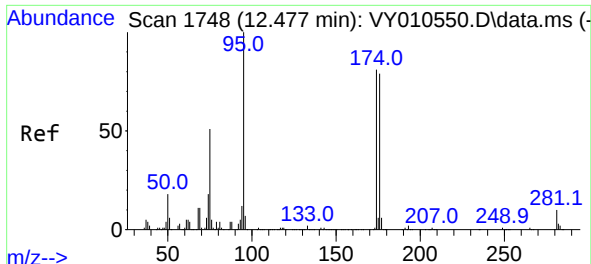
Tgt Ion:117 Resp: 24810  
Ion Ratio Lower Upper  
117 100  
119 5.6 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 44.025 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.006 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

Tgt Ion: 98 Resp: 429510  
Ion Ratio Lower Upper  
98 100  
100 65.5 50.2 75.2

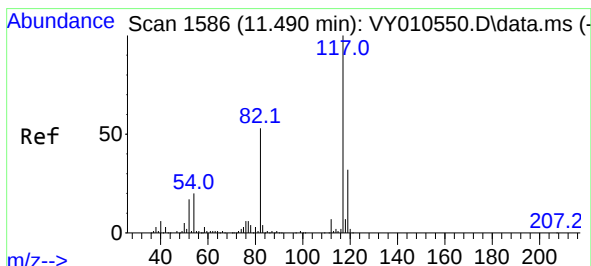
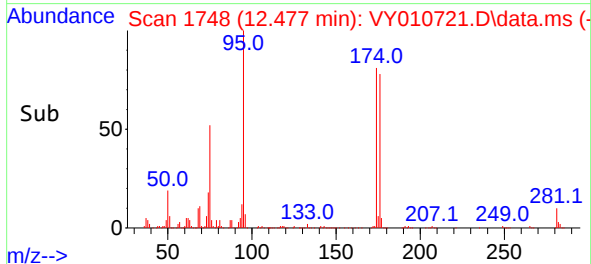
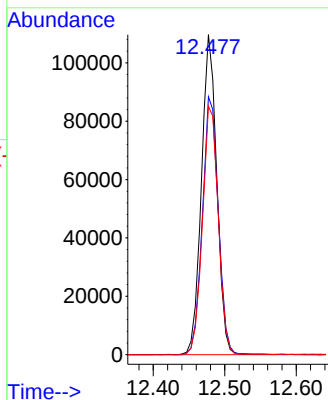
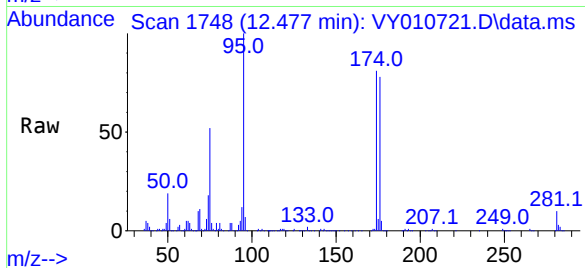




#62  
4-Bromofluorobenzene  
Concen: 44.463 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

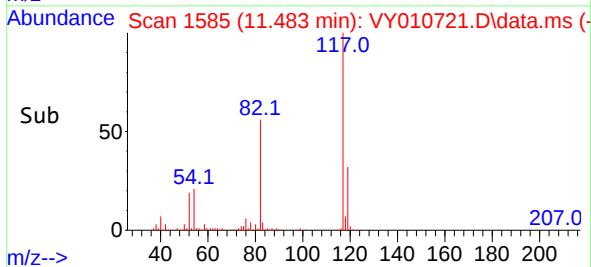
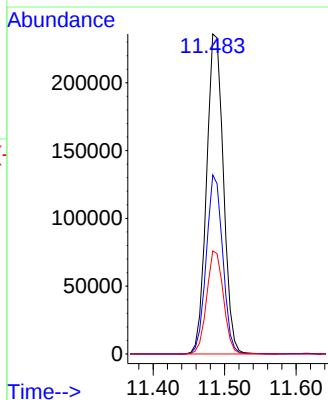
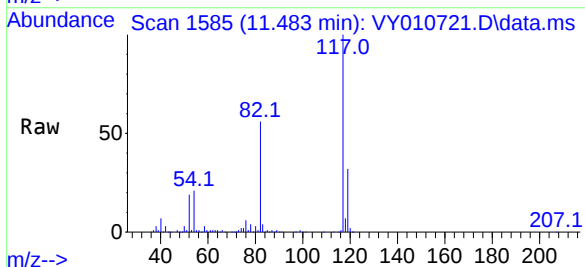
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18

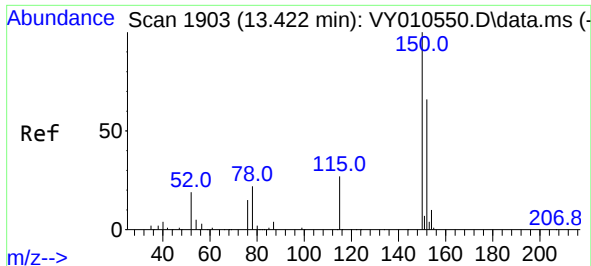
Tgt Ion: 95 Resp: 163548  
Ion Ratio Lower Upper  
95 100  
174 83.3 0.0 177.0  
176 79.9 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.483 min Scan# 1585  
Delta R.T. -0.007 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

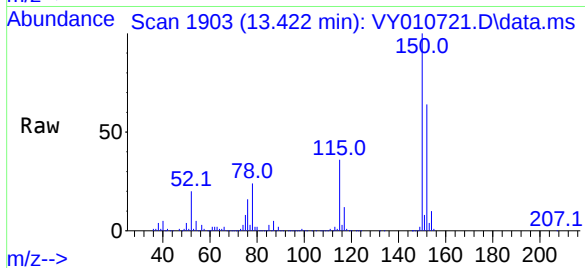
Tgt Ion: 117 Resp: 386512  
Ion Ratio Lower Upper  
117 100  
82 55.9 43.0 64.4  
119 32.2 25.4 38.0



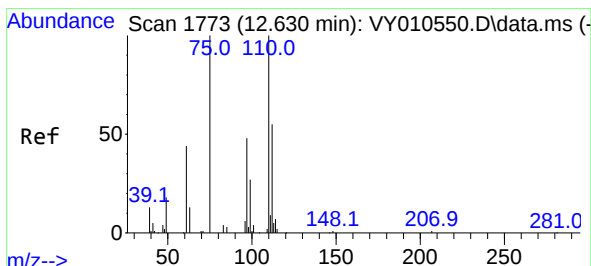
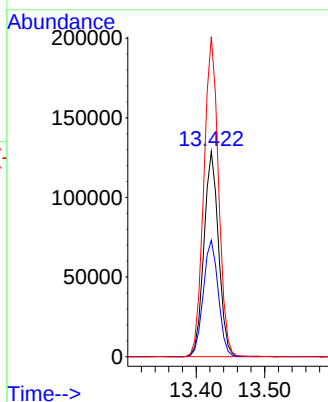
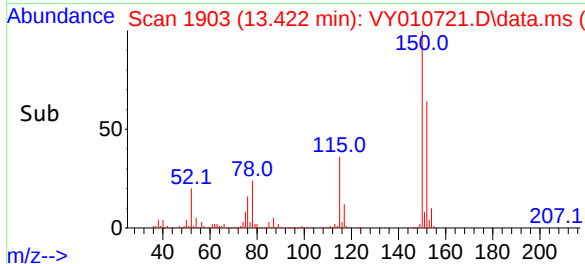


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59

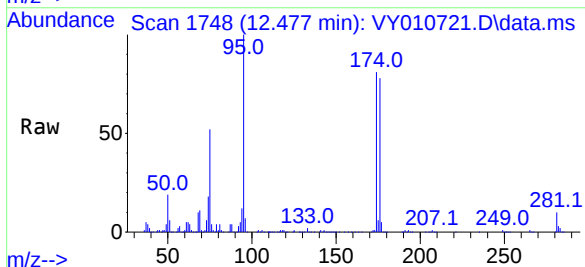
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22022-17.5-18



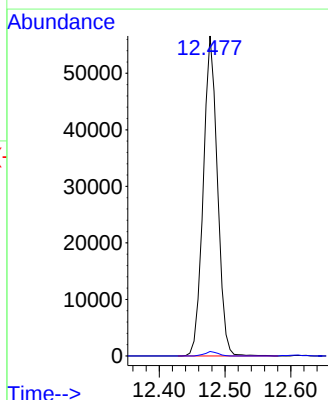
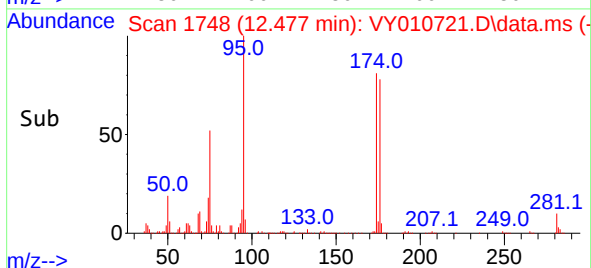
Tgt Ion:152 Resp: 190974  
Ion Ratio Lower Upper  
152 100  
115 58.3 28.2 84.7  
150 156.9 0.0 347.6

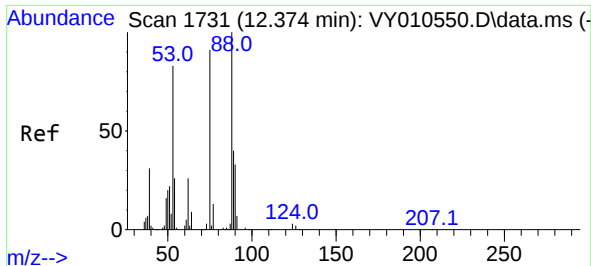


#76  
1,2,3-Trichloropropane  
Concen: 46.575 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY010721.D  
Acq: 28 Sep 2022 16:59



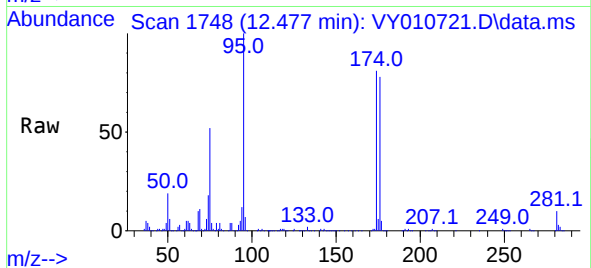
Tgt Ion: 75 Resp: 84893  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 103.556 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.103 min  
 Lab File: VY010721.D  
 Acq: 28 Sep 2022 16:59

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 D22022-17.5-18



Tgt Ion: 75 Resp: 84893  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 85.3 127.9#  
 89 0.3 37.0 55.4#

