

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030322\  
 Data File : VY007723.D  
 Acq On : 03 Mar 2022 23:46  
 Operator : SY/MD  
 Sample : N1730-02  
 Misc : 5.82g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 3-4-SAMPLE-LOCATION-2

Quant Time: Mar 04 00:45:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 01 09:08:03 2022  
 Response via : Initial Calibration

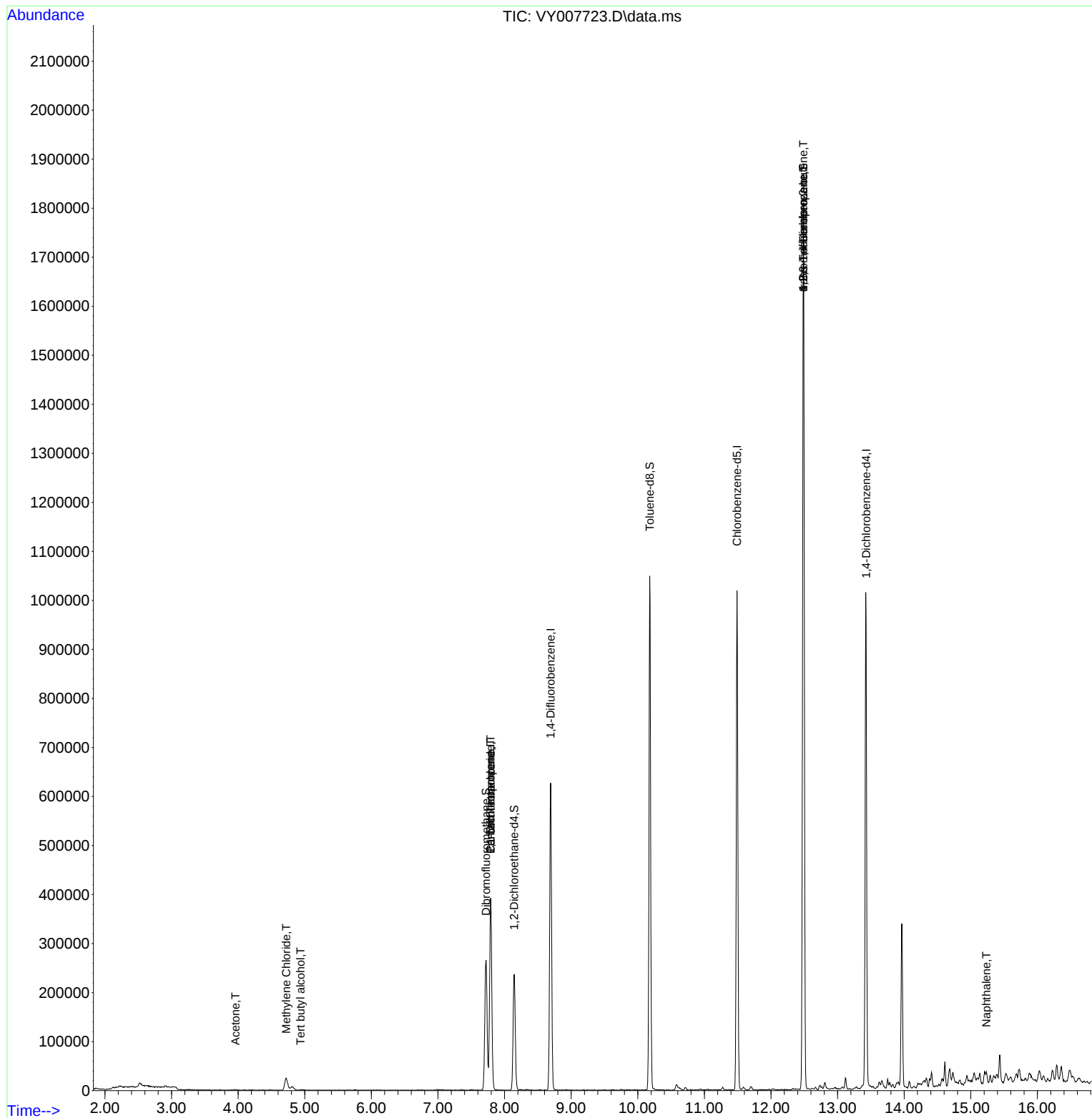
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 314603   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 548518   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 552807   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 253987   | 50.000    | ug/l       | 0.00     |
|                               |           |       |          |           |            |          |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65    | 184640   | 56.060    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 112.120% |          |
| 35) Dibromofluoromethane      | 7.722     | 113   | 184403   | 52.584    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 105.160% |          |
| 50) Toluene-d8                | 10.179    | 98    | 679372   | 52.628    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 105.260% |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 233315   | 56.070    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 112.140% |          |
|                               |           |       |          |           |            |          |
| Target Compounds              |           |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.918     | 85    | 99       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.119     | 50    | 1039     | Below Cal | #          | 71       |
| 11) Tert butyl alcohol        | 4.936     | 59    | 1358     | 4.762     | ug/l #     | 77       |
| 13) Acrolein                  | 3.717     | 56    | 48       | Below Cal | #          | 14       |
| 16) Acetone                   | 3.961     | 43    | 1814     | 2.707     | ug/l       | 93       |
| 17) Carbon Disulfide          | 4.192     | 76    | 88       | Below Cal | #          | 75       |
| 18) Methyl Acetate            | 4.473     | 43    | 371      | Below Cal |            | 96       |
| 20) Methylene Chloride        | 4.723     | 84    | 18464    | 1.526     | ug/l #     | 77       |
| 31) Cyclohexane               | 7.789     | 56    | 7183     | Below Cal | #          | 15       |
| 36) 1,1-Dichloropropene       | 7.789     | 75    | 22713    | 4.117     | ug/l #     | 53       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 30014    | 5.100     | ug/l #     | 17       |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 135608   | 47.809    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 135608   | 97.740    | ug/l #     | 8        |
| 95) Naphthalene               | 15.233    | 128   | 14069    | 1.356     | ug/l #     | 93       |
| -----                         |           |       |          |           |            |          |

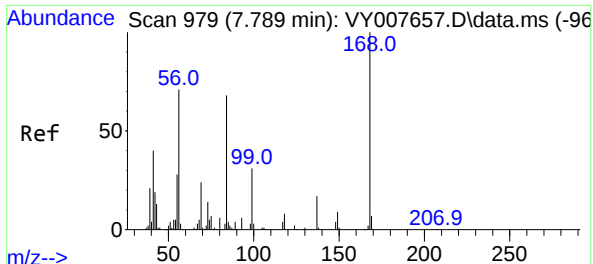
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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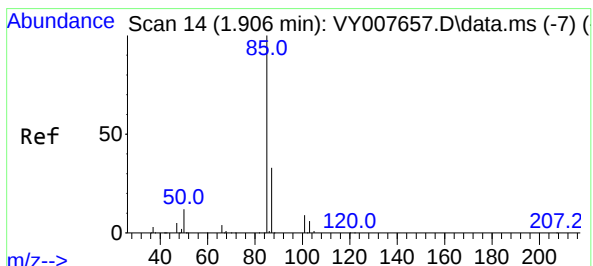
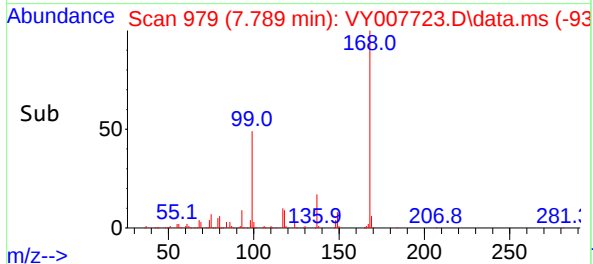
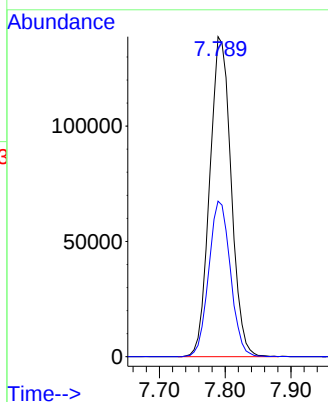
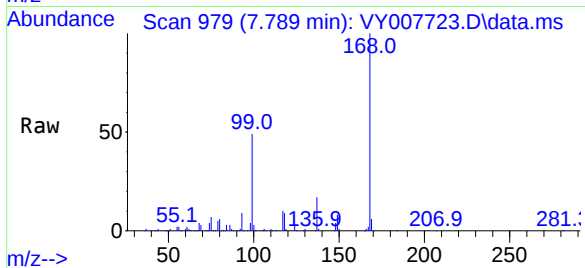




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

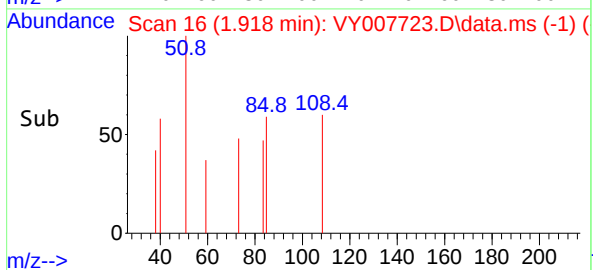
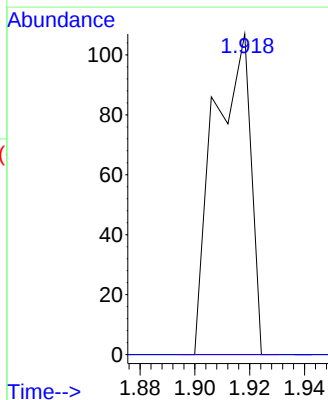
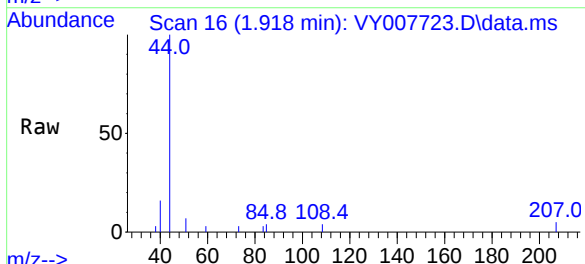
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

Tgt Ion:168 Resp: 314603  
Ion Ratio Lower Upper  
168 100  
99 48.6 46.9 70.3

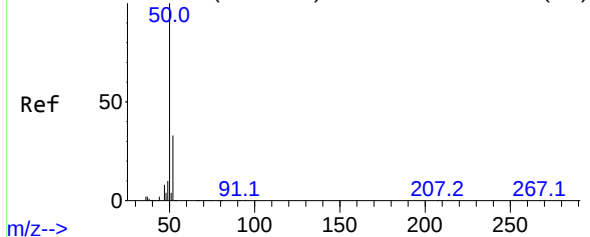


#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.918 min Scan# 16  
Delta R.T. 0.012 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion: 85 Resp: 99  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#



Abundance Scan 48 (2.113 min): VY007657.D\data.ms (-41)



#3

Chloromethane

Concen: Below Cal

RT: 2.119 min Scan# 49

Delta R.T. 0.006 min

Lab File: VY007723.D

Acq: 03 Mar 2022 23:46

Instrument :

MSVOA\_Y

ClientSampleId :

3-4-SAMPLE-LOCATION-2

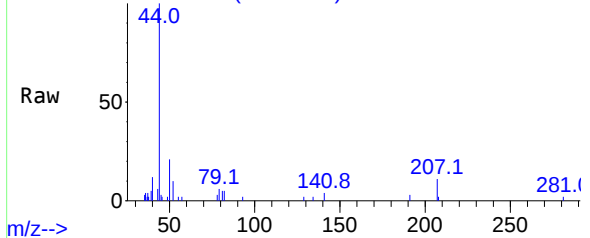
Tgt Ion: 50 Resp: 1039

Ion Ratio Lower Upper

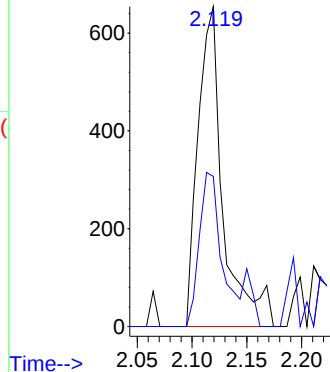
50 100

52 46.9 24.6 37.0#

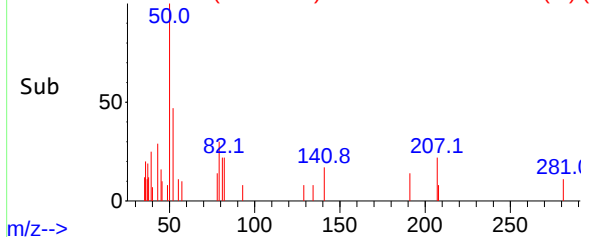
Abundance Scan 49 (2.119 min): VY007723.D\data.ms



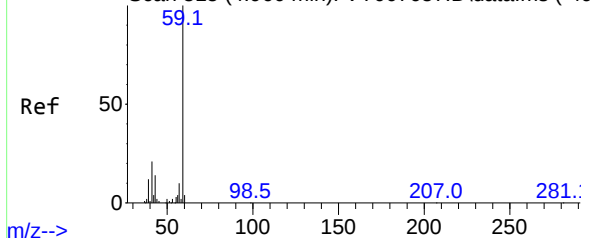
Abundance



Abundance Scan 49 (2.119 min): VY007723.D\data.ms (-1)



Abundance Scan 515 (4.960 min): VY007657.D\data.ms (-49)



#11

Tert butyl alcohol

Concen: 4.762 ug/l

RT: 4.936 min Scan# 511

Delta R.T. -0.024 min

Lab File: VY007723.D

Acq: 03 Mar 2022 23:46

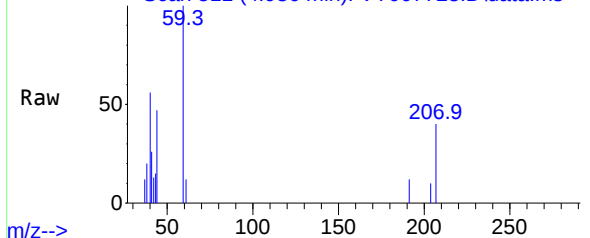
Tgt Ion: 59 Resp: 1358

Ion Ratio Lower Upper

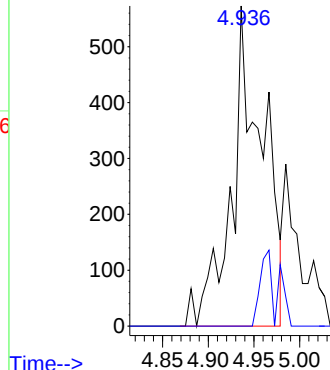
59 100

57 0.0 6.4 9.6#

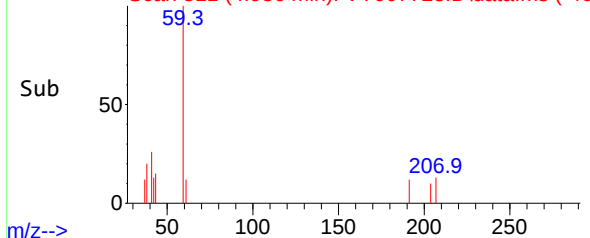
Abundance Scan 511 (4.936 min): VY007723.D\data.ms

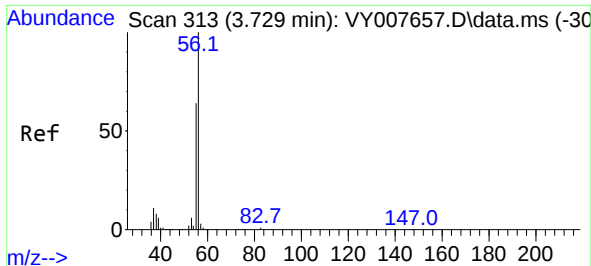


Abundance



Abundance Scan 511 (4.936 min): VY007723.D\data.ms (-46)

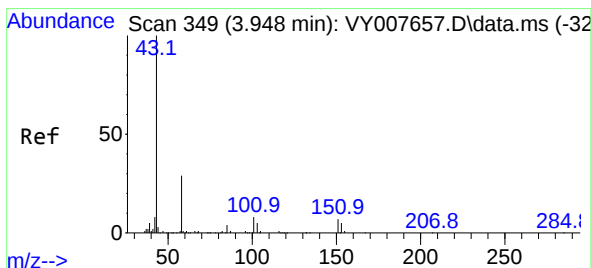
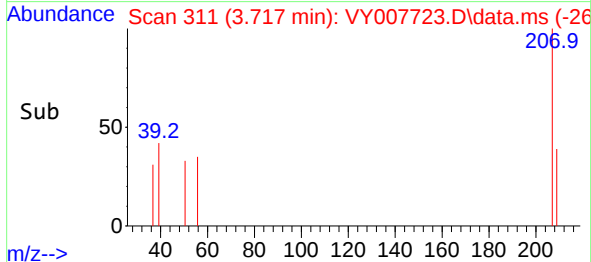
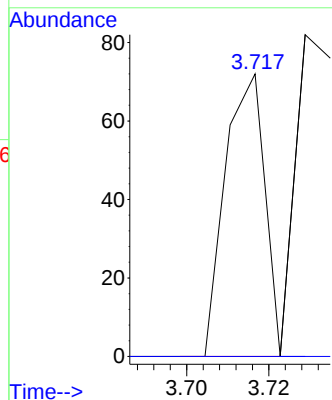
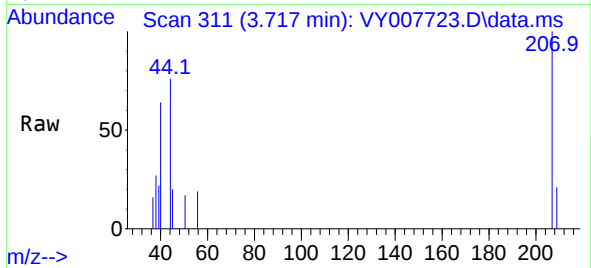




#13  
Acrolein  
Concen: Below Cal  
RT: 3.717 min Scan# 311  
Delta R.T. -0.012 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

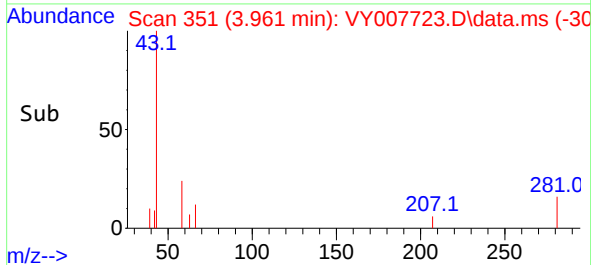
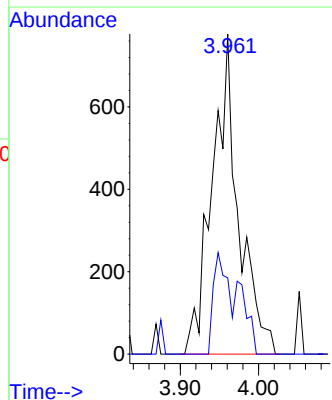
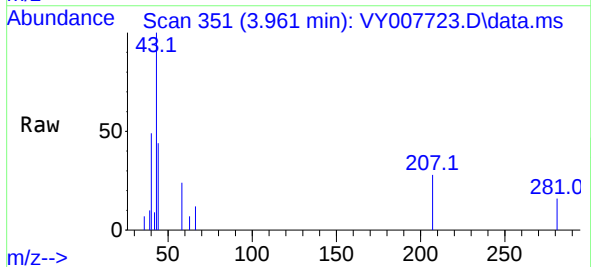
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

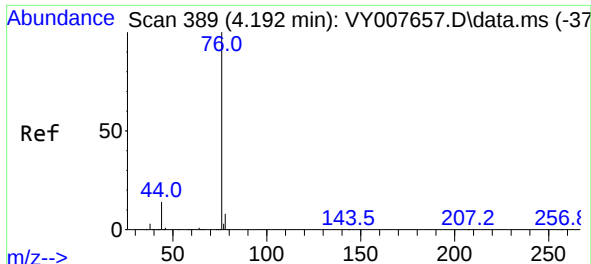
Tgt Ion: 56 Resp: 48  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.6 86.4#



#16  
Acetone  
Concen: 2.707 ug/l  
RT: 3.961 min Scan# 351  
Delta R.T. 0.013 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion: 43 Resp: 1814  
Ion Ratio Lower Upper  
43 100  
58 23.8 22.0 33.0

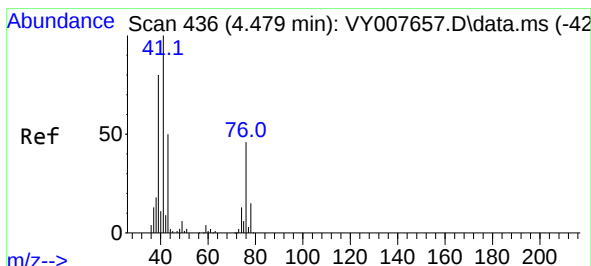
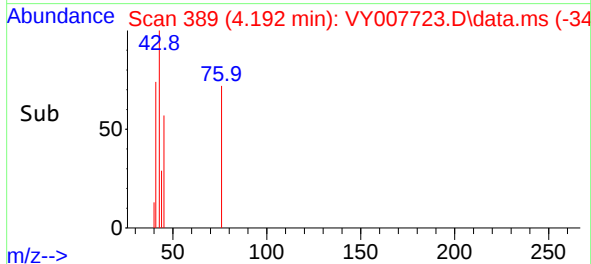
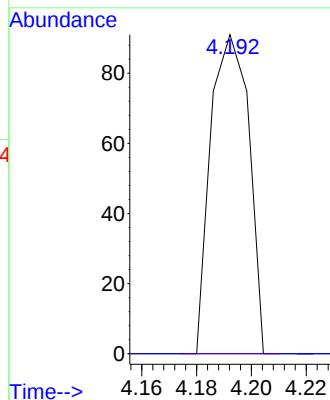
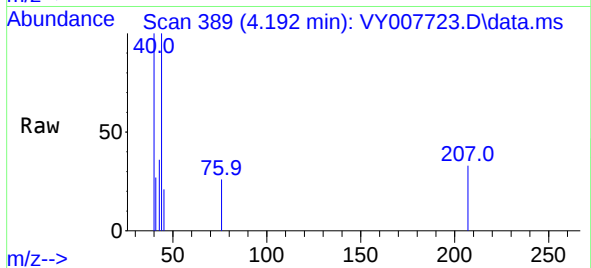




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.192 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

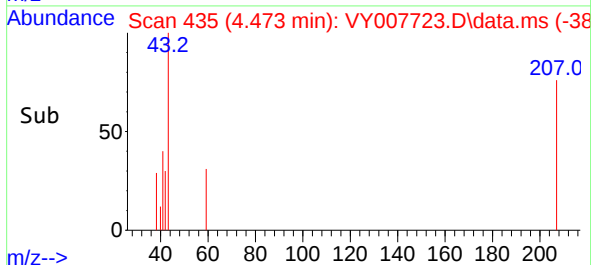
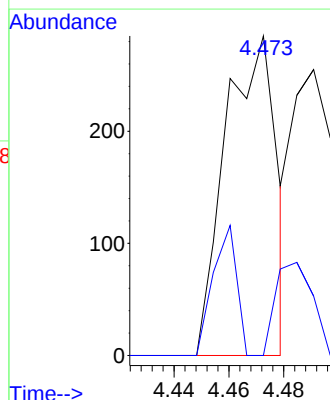
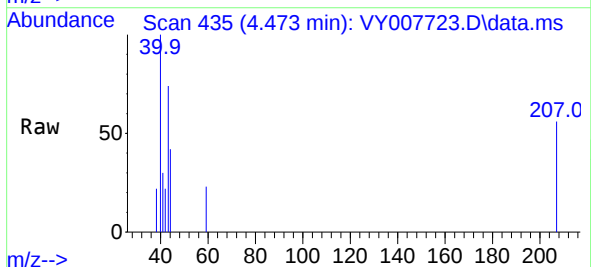
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

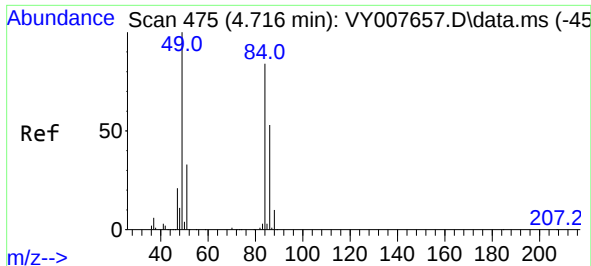
Tgt Ion: 76 Resp: 88  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.473 min Scan# 435  
Delta R.T. -0.006 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion: 43 Resp: 371  
Ion Ratio Lower Upper  
43 100  
74 18.9 16.6 24.8





#20

Methylene Chloride

Concen: 1.526 ug/l

RT: 4.723 min Scan# 41

Delta R.T. 0.007 min

Lab File: VY007723.D

Acq: 03 Mar 2022 23:46

Instrument :

MSVOA\_Y

ClientSampleId :

3-4-SAMPLE-LOCATION-2

Tgt Ion: 84 Resp: 18464

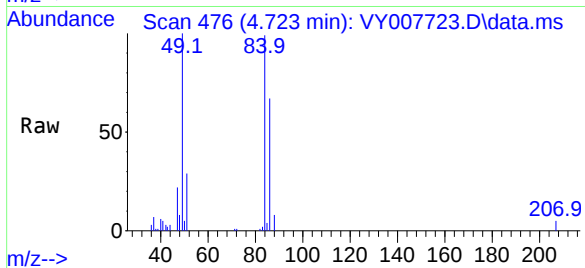
Ion Ratio Lower Upper

84 100

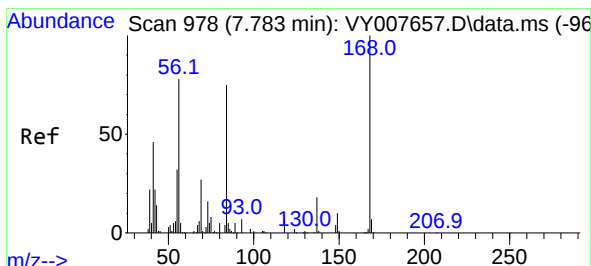
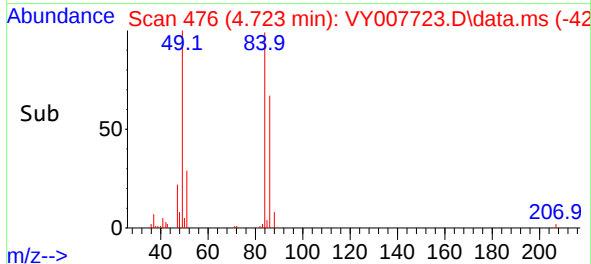
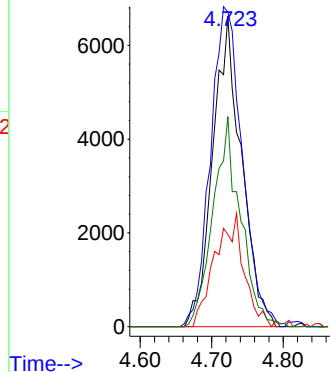
49 101.4 114.4 171.6#

51 29.7 35.3 52.9#

86 67.7 53.7 80.5



Abundance



#31

Cyclohexane

Concen: Below Cal

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY007723.D

Acq: 03 Mar 2022 23:46

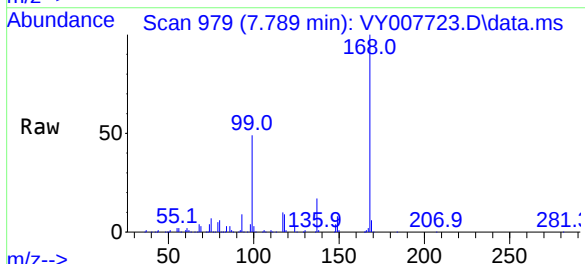
Tgt Ion: 56 Resp: 7183

Ion Ratio Lower Upper

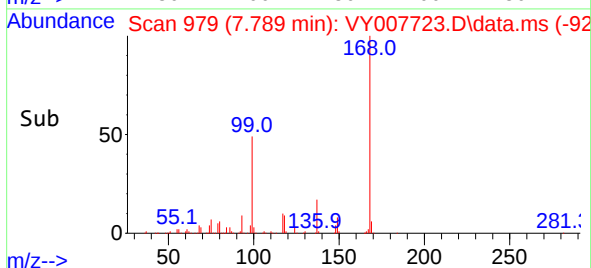
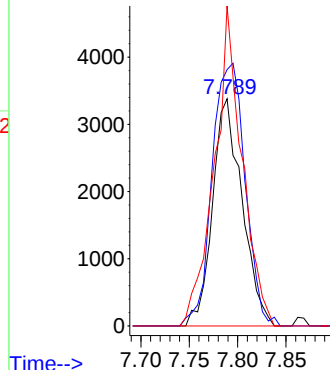
56 100

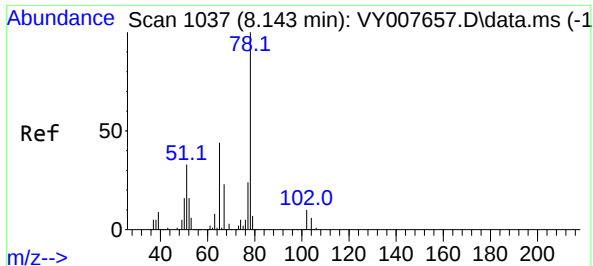
69 112.9 26.7 40.1#

84 140.9 67.2 100.8#



Abundance





#33

1,2-Dichloroethane-d4

Concen: 56.060 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY007723.D

Acq: 03 Mar 2022 23:46

Instrument :

MSVOA\_Y

ClientSampleId :

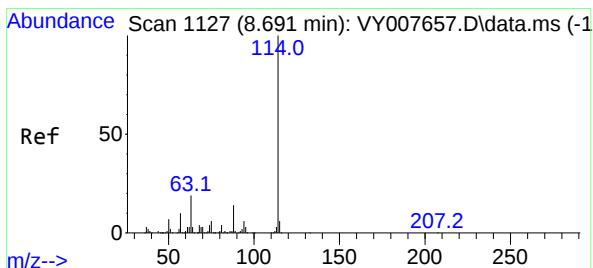
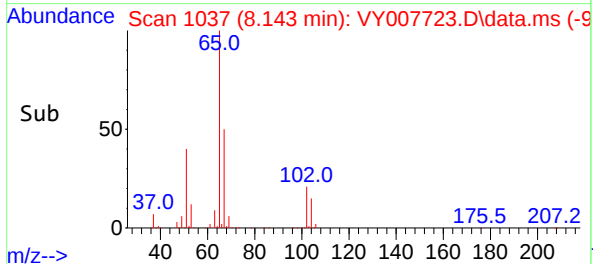
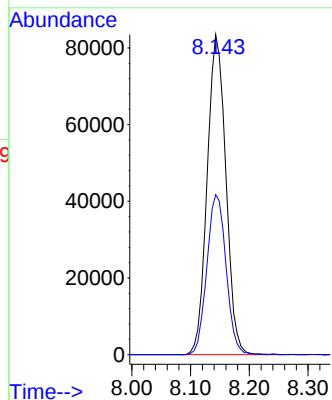
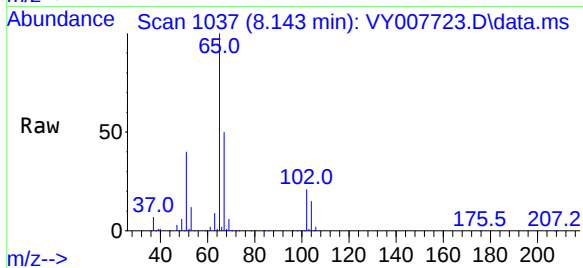
3-4-SAMPLE-LOCATION-2

Tgt Ion: 65 Resp: 184640

Ion Ratio Lower Upper

65 100

67 51.2 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY007723.D

Acq: 03 Mar 2022 23:46

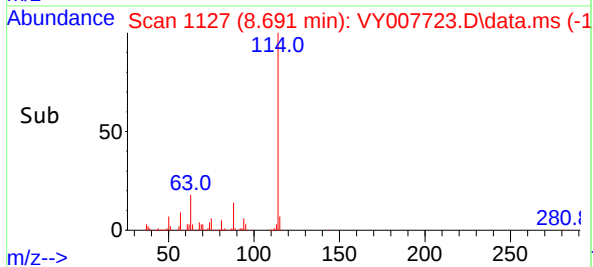
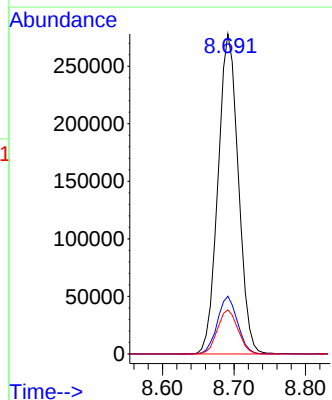
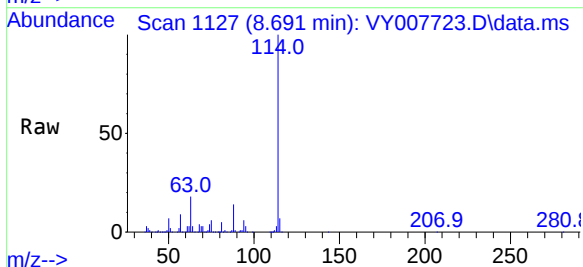
Tgt Ion:114 Resp: 548518

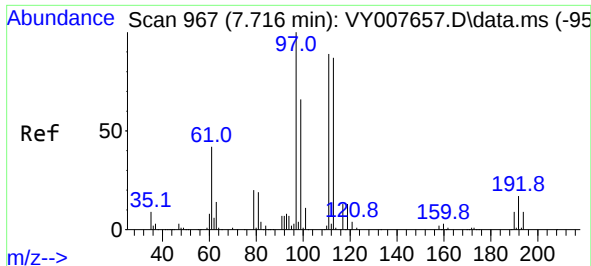
Ion Ratio Lower Upper

114 100

63 18.1 0.0 43.2

88 13.8 0.0 31.8

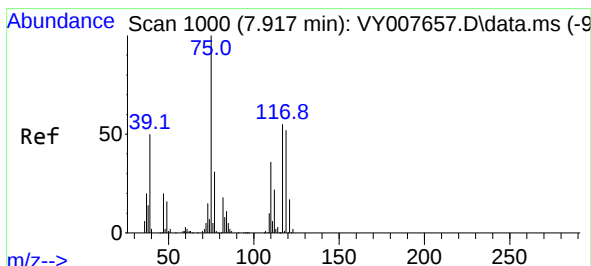
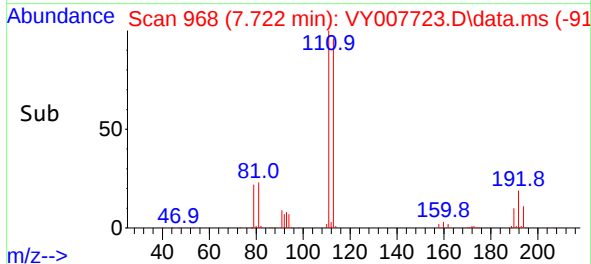
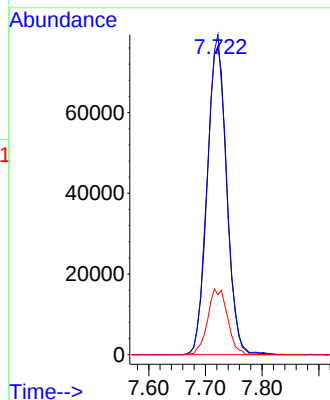
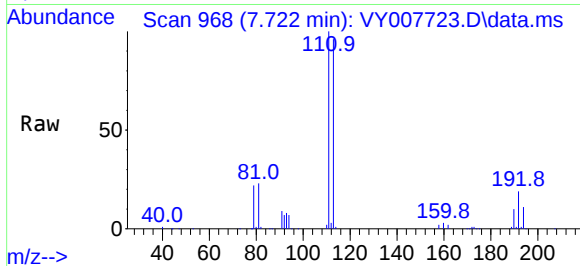




#35  
Dibromofluoromethane  
Concen: 52.584 ug/l  
RT: 7.722 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

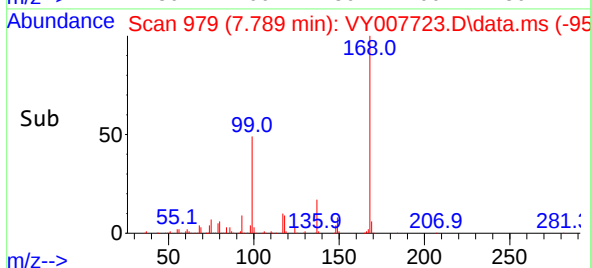
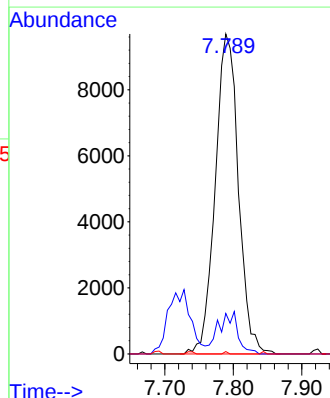
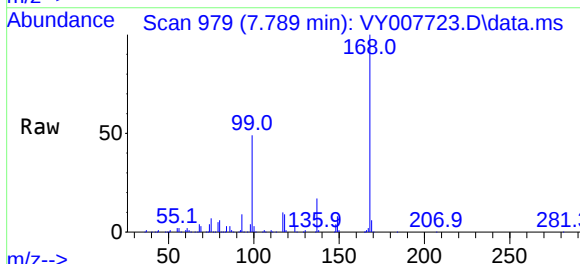
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

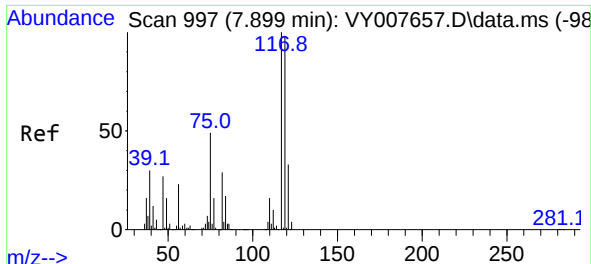
Tgt Ion:113 Resp: 184403  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.6 124.0  
192 21.5 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 4.117 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

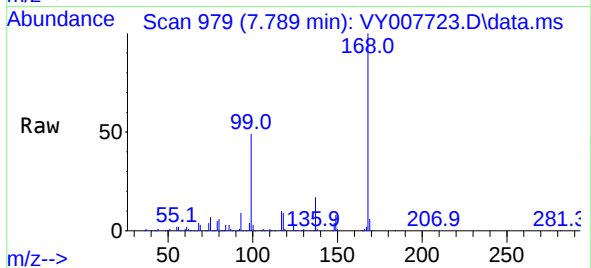
Tgt Ion: 75 Resp: 22713  
Ion Ratio Lower Upper  
75 100  
110 11.1 17.1 51.2#  
77 0.1 24.4 36.6#



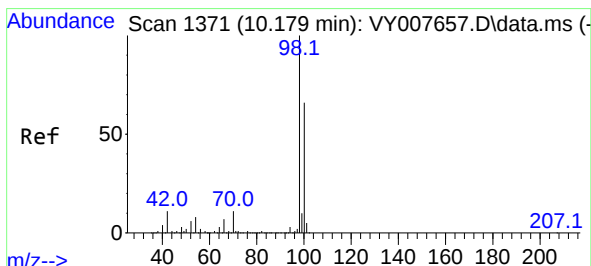
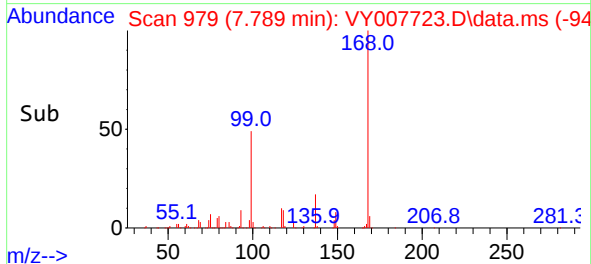
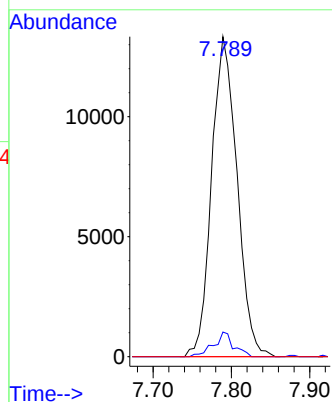


#38  
Carbon Tetrachloride  
Concen: 5.100 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

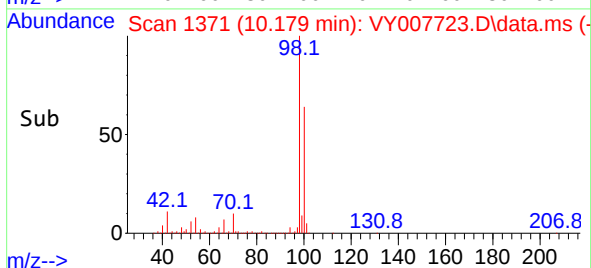
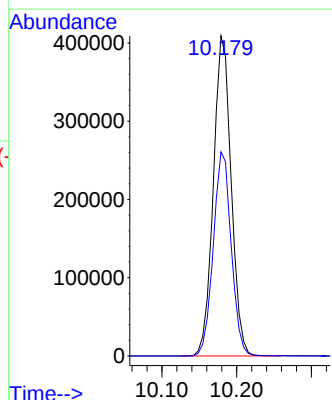
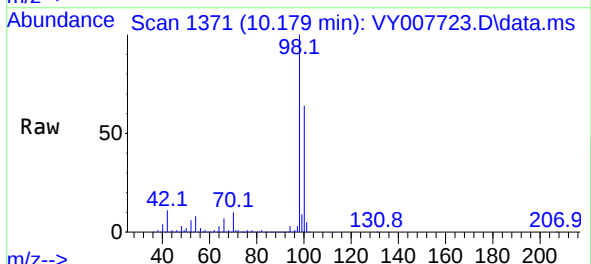


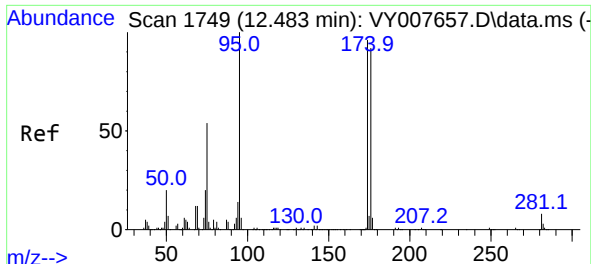
Tgt Ion:117 Resp: 30014  
Ion Ratio Lower Upper  
117 100  
119 7.7 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 52.628 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion: 98 Resp: 679372  
Ion Ratio Lower Upper  
98 100  
100 64.1 50.2 75.2

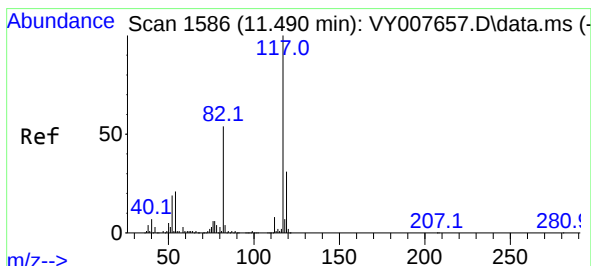
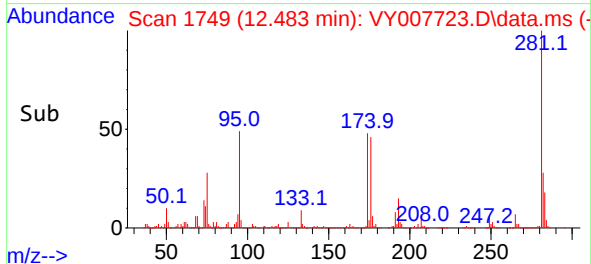
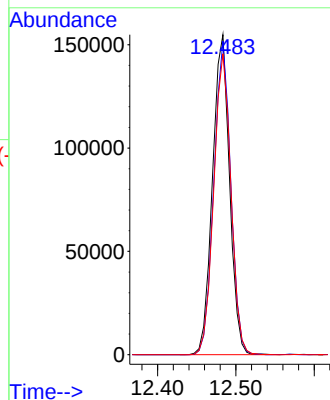
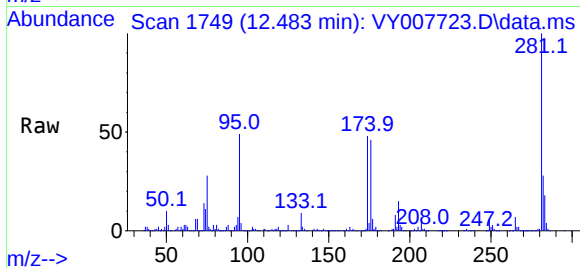




#62  
4-Bromofluorobenzene  
Concen: 56.070 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

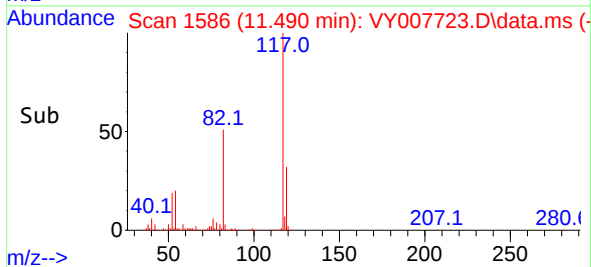
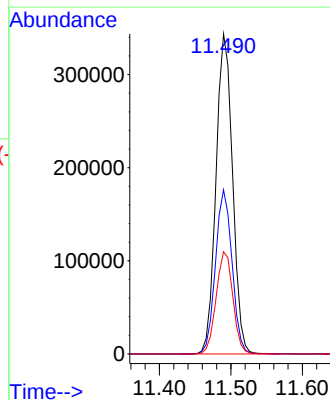
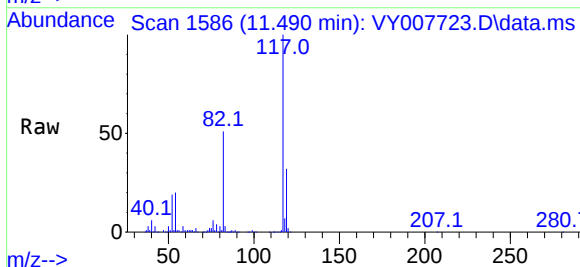
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

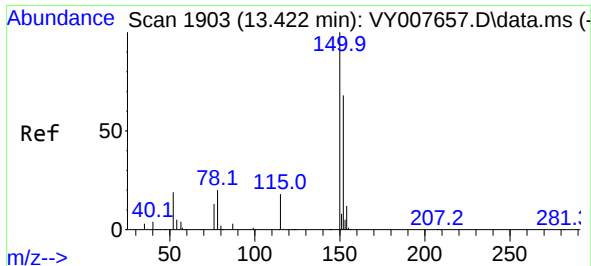
Tgt Ion: 95 Resp: 233315  
Ion Ratio Lower Upper  
95 100  
174 97.3 0.0 177.0  
176 95.1 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion: 117 Resp: 552807  
Ion Ratio Lower Upper  
117 100  
82 51.3 43.0 64.4  
119 31.9 25.4 38.0

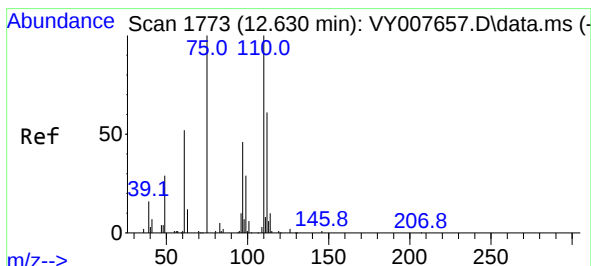
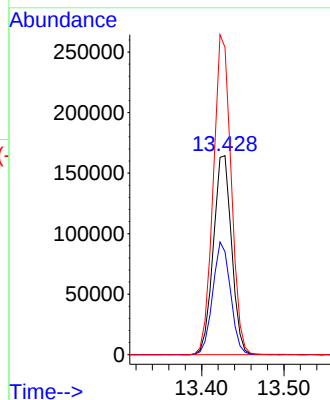
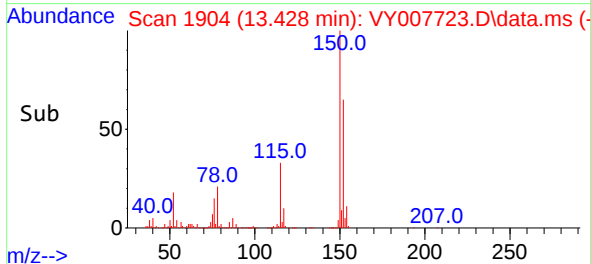
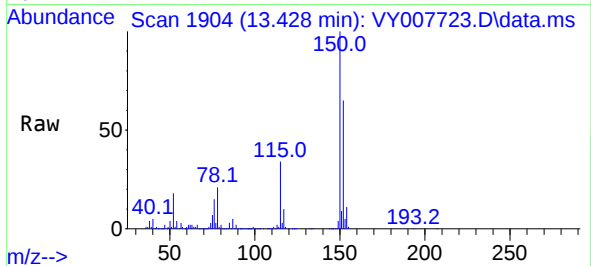




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

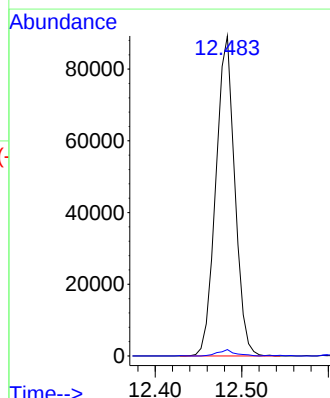
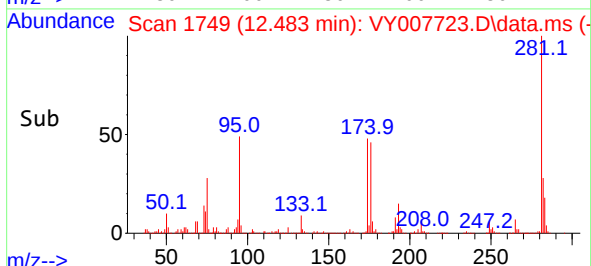
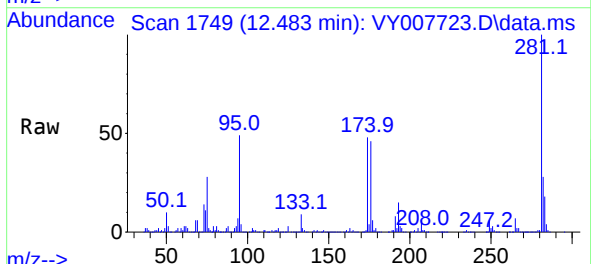
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

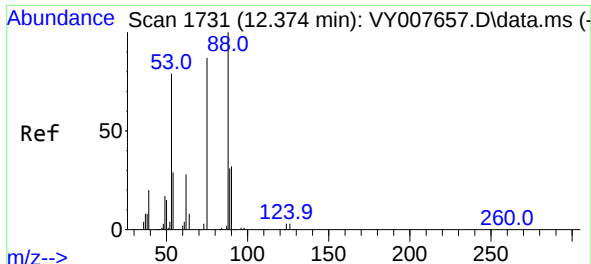
Tgt Ion:152 Resp: 253987  
Ion Ratio Lower Upper  
152 100  
115 55.0 28.2 84.7  
150 157.0 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 47.809 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.147 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion: 75 Resp: 135608  
Ion Ratio Lower Upper  
75 100  
77 1.8 0.0 0.0#

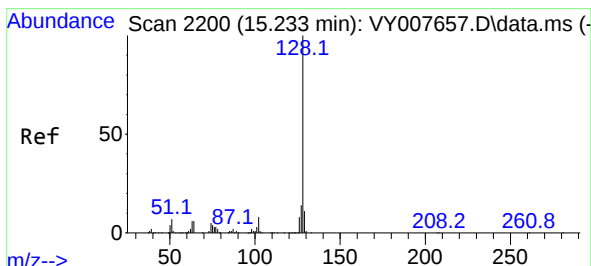
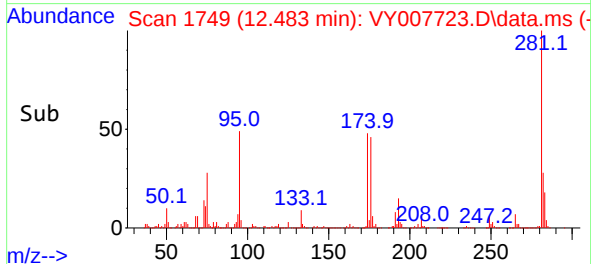
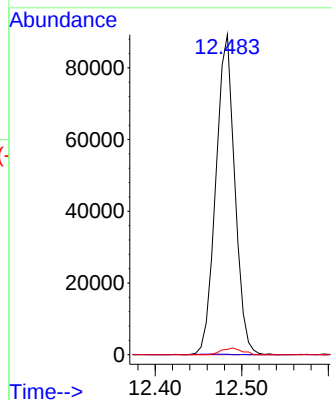
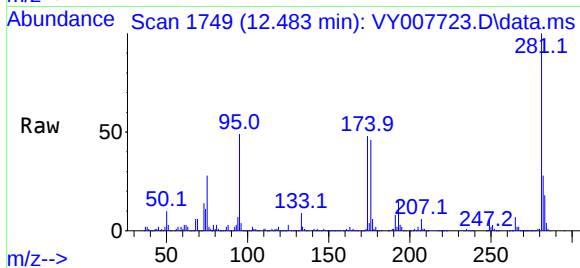




#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.740 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.109 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-4-SAMPLE-LOCATION-2

Tgt Ion: 75 Resp: 135608  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 2.2 37.0 55.4#



#95  
Naphthalene  
Concen: 1.356 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.000 min  
Lab File: VY007723.D  
Acq: 03 Mar 2022 23:46

Tgt Ion:128 Resp: 14069  
Ion Ratio Lower Upper  
128 100  
127 17.6 11.0 16.4#  
129 11.6 8.4 12.6

