

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102422\  
 Data File : VY011078.D  
 Acq On : 24 Oct 2022 18:37  
 Operator : KP/MD  
 Sample : N5238-05  
 Misc : 5.06g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RBR-251375

Quant Time: Oct 25 05:47:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 18 01:42:42 2022  
 Response via : Initial Calibration

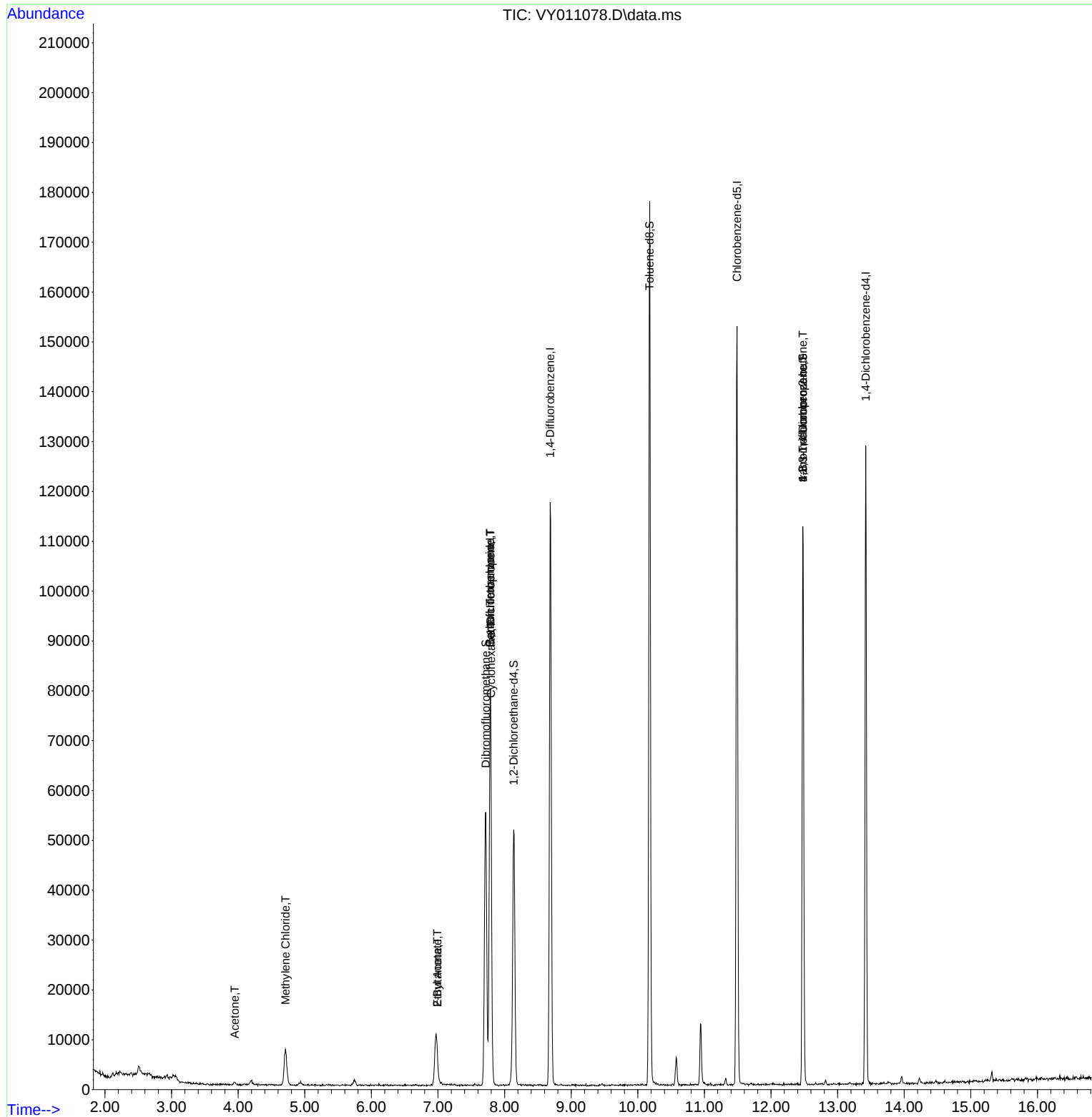
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 63716               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 102310              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 88160               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 33060               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 39967               | 68.096    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 136.200% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 40289               | 71.575    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 143.140% |           |        |          |
| 50) Toluene-d8                | 10.178         | 98   | 118299              | 55.377    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 110.760% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 35194               | 46.280    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 92.560%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.936          | 59   | 853                 | Below Cal | #      | 77       |
| 16) Acetone                   | 3.948          | 43   | 890                 | 5.222     | ug/l # | 79       |
| 18) Methyl Acetate            | 4.478          | 43   | 157                 | Below Cal | #      | 56       |
| 20) Methylene Chloride        | 4.710          | 84   | 5374                | 1.050     | ug/l   | 87       |
| 25) 2-Butanone                | 6.990          | 43   | 731                 | 2.828     | ug/l # | 54       |
| 31) Cyclohexane               | 7.795          | 56   | 1154                | 1.027     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 4875                | 5.119     | ug/l # | 50       |
| 37) Ethyl Acetate             | 6.990          | 43   | 731                 | 1.386     | ug/l # | 1        |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 6182                | 6.288     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 17914               | 47.728    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 17914               | 102.649   | ug/l # | 7        |
| -----                         |                |      |                     |           |        |          |

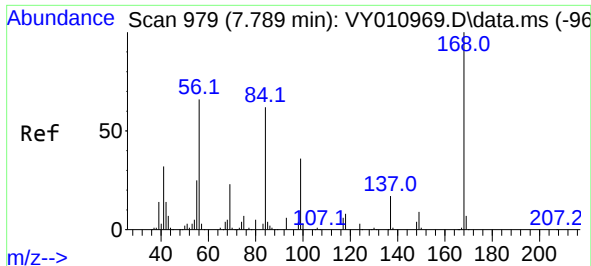
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102422\  
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ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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RBR-251375

Quant Time: Oct 25 05:47:56 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 18 01:42:42 2022  
Response via : Initial Calibration

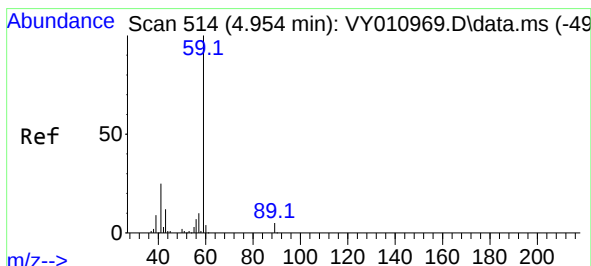
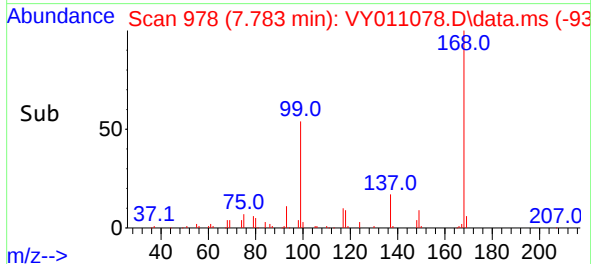
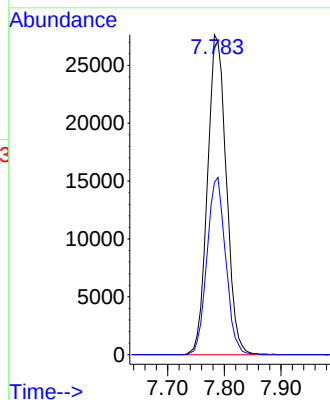
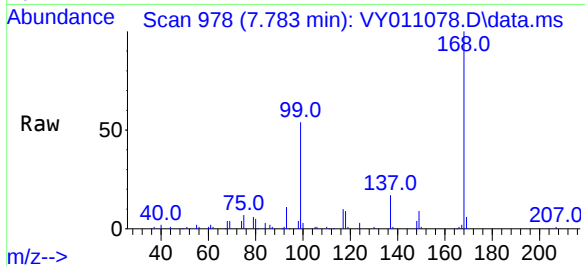




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

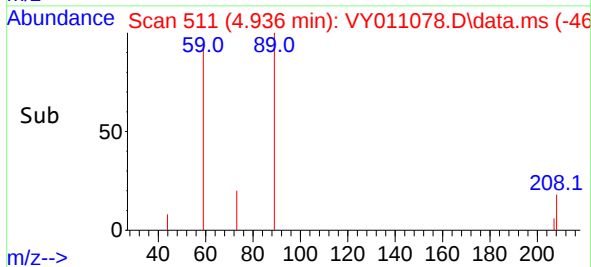
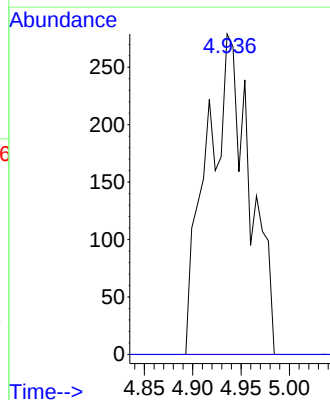
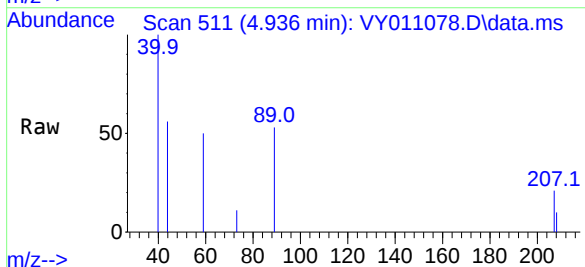
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375

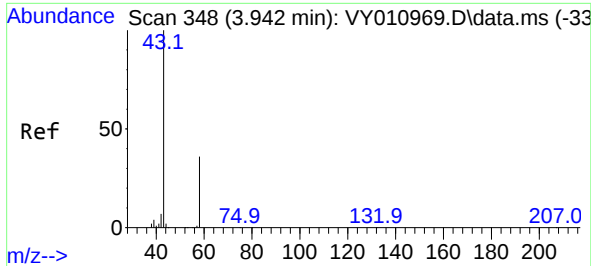
Tgt Ion:168 Resp: 63716  
Ion Ratio Lower Upper  
168 100  
99 53.8 46.9 70.3



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.936 min Scan# 511  
Delta R.T. -0.018 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Tgt Ion: 59 Resp: 853  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#





#16

Acetone

Concen: 5.222 ug/l

RT: 3.948 min Scan# 34

Delta R.T. 0.006 min

Lab File: VY011078.D

Acq: 24 Oct 2022 18:37

Instrument :

MSVOA\_Y

ClientSampleId :

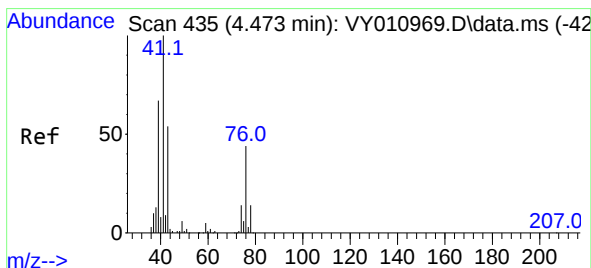
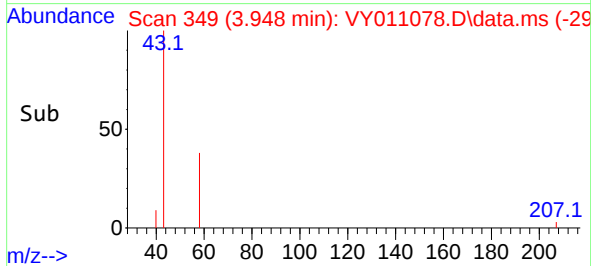
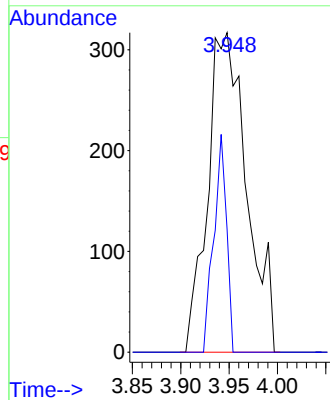
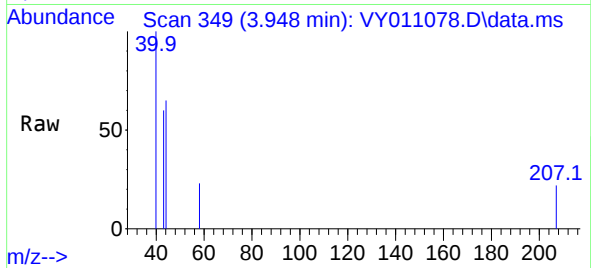
RBR-251375

Tgt Ion: 43 Resp: 890

Ion Ratio Lower Upper

43 100

58 38.5 22.0 33.0#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.478 min Scan# 436

Delta R.T. 0.005 min

Lab File: VY011078.D

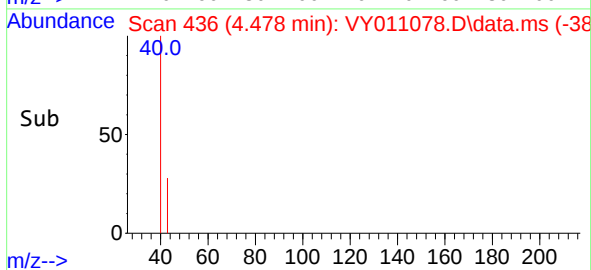
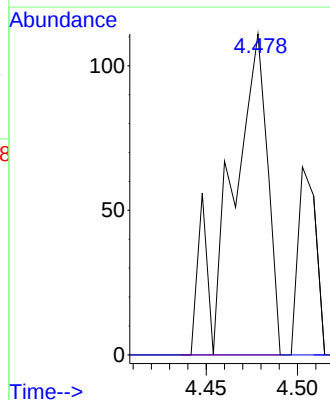
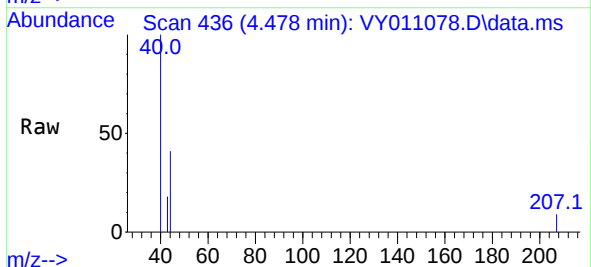
Acq: 24 Oct 2022 18:37

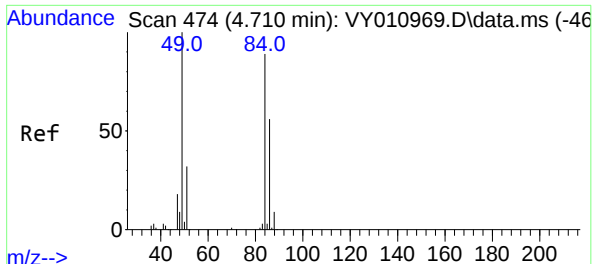
Tgt Ion: 43 Resp: 157

Ion Ratio Lower Upper

43 100

74 0.0 16.6 24.8#



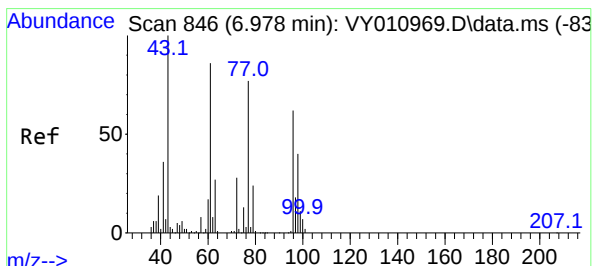
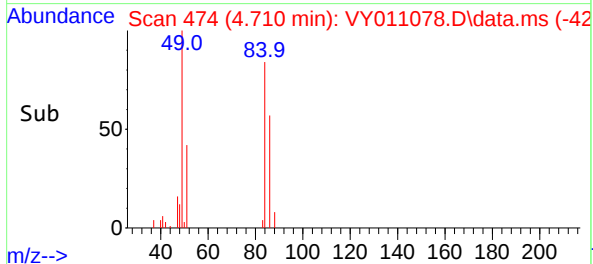
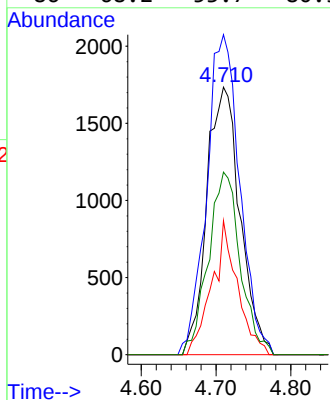
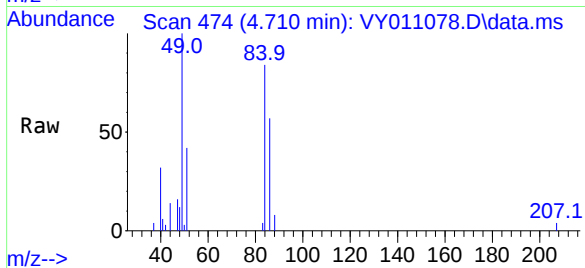


#20  
Methylene Chloride  
Concen: 1.050 ug/l  
RT: 4.710 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375

Tgt Ion: 84 Resp: 5374

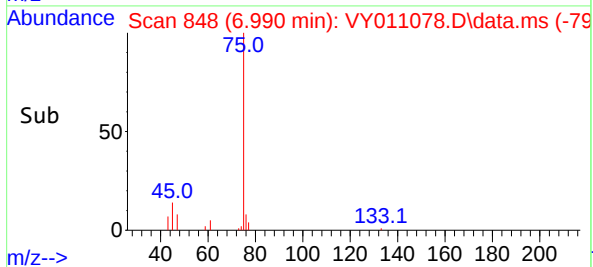
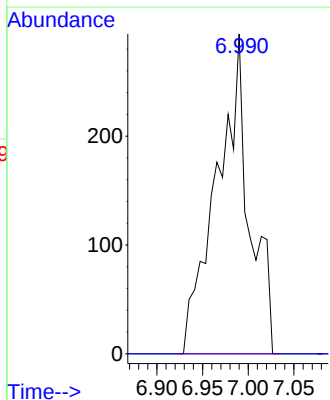
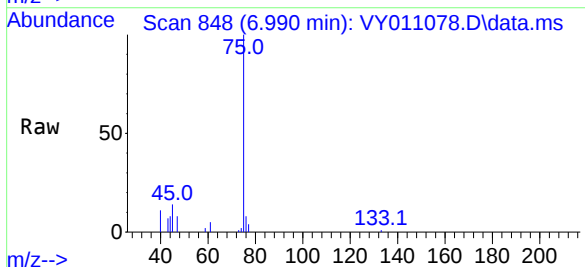
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 119.6 | 114.4 | 171.6 |
| 51  | 50.1  | 35.3  | 52.9  |
| 86  | 68.2  | 53.7  | 80.5  |

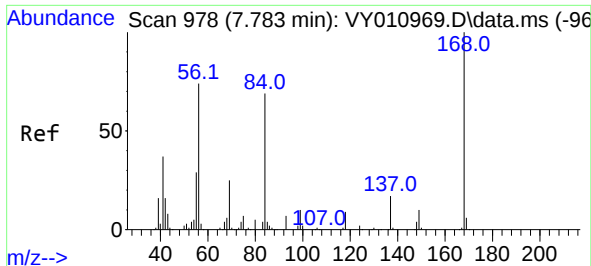


#25  
2-Butanone  
Concen: 2.828 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.012 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Tgt Ion: 43 Resp: 731

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 17.7  | 26.5# |

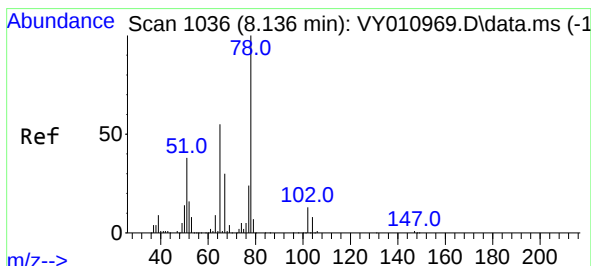
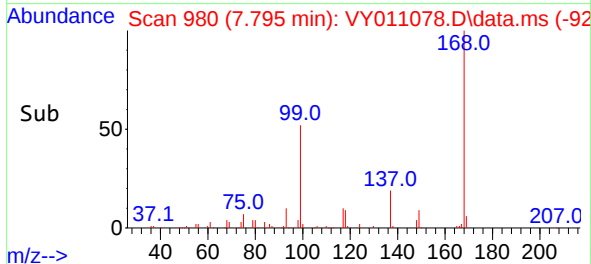
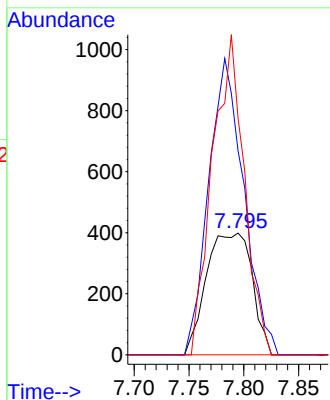
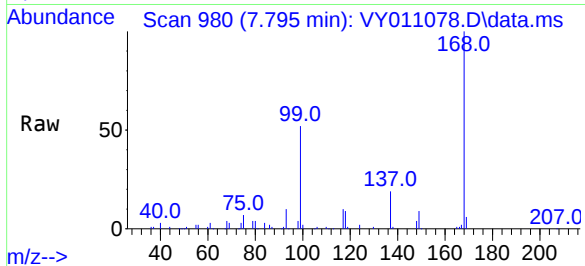




#31  
Cyclohexane  
Concen: 1.027 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

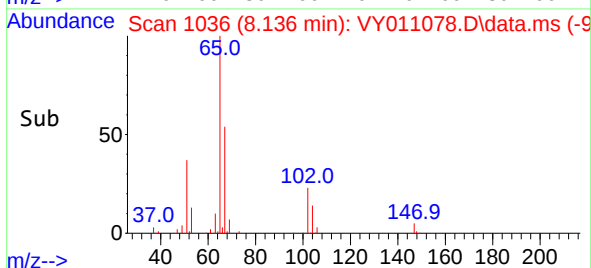
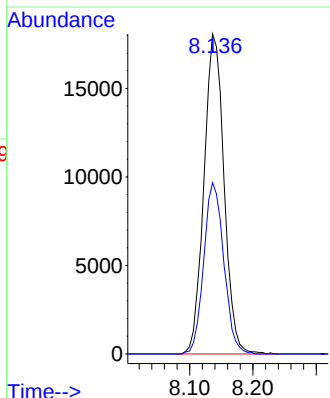
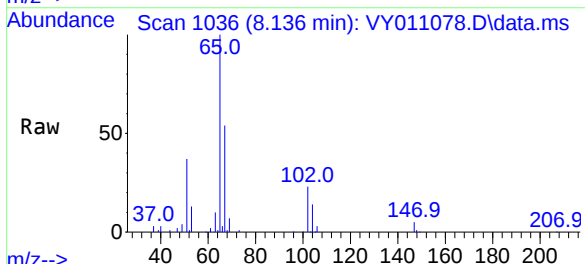
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375

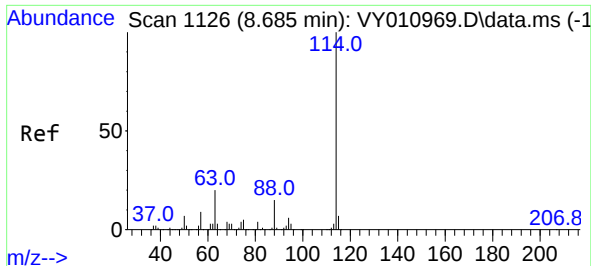
Tgt Ion: 56 Resp: 1154  
Ion Ratio Lower Upper  
56 100  
69 167.7 26.7 40.1#  
84 194.5 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 68.096 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Tgt Ion: 65 Resp: 39967  
Ion Ratio Lower Upper  
65 100  
67 53.4 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: VY011078.D

Acq: 24 Oct 2022 18:37

Instrument :

MSVOA\_Y

ClientSampleId :

RBR-251375

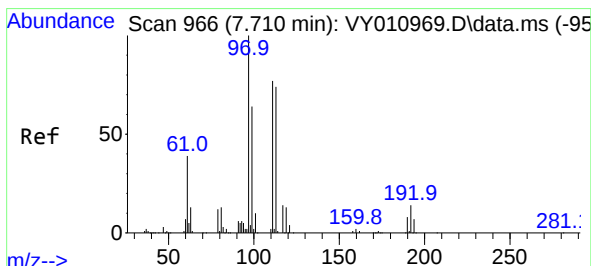
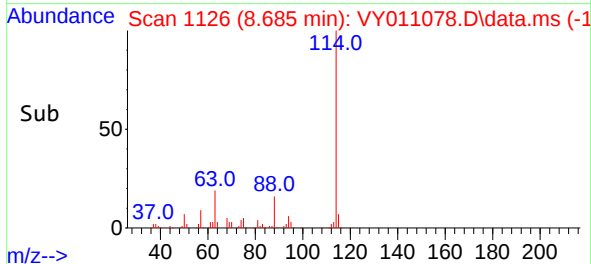
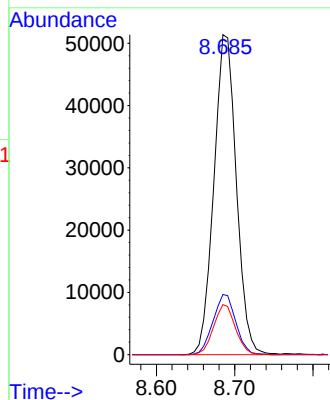
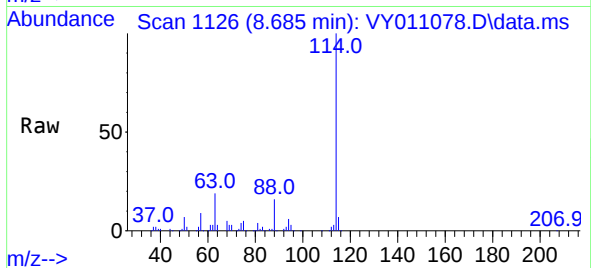
Tgt Ion:114 Resp: 102310

Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.2

88 15.7 0.0 31.8



#35

Dibromofluoromethane

Concen: 71.575 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.006 min

Lab File: VY011078.D

Acq: 24 Oct 2022 18:37

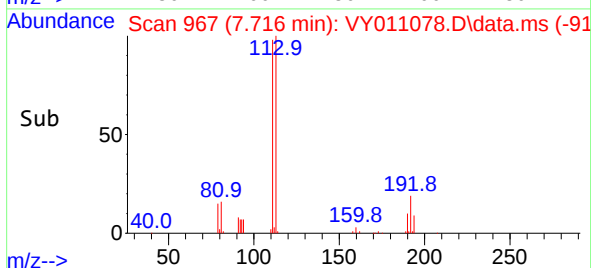
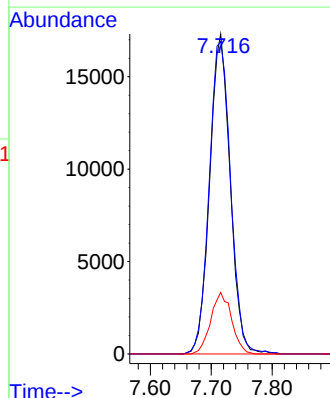
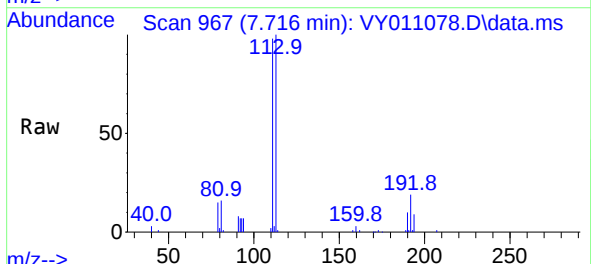
Tgt Ion:113 Resp: 40289

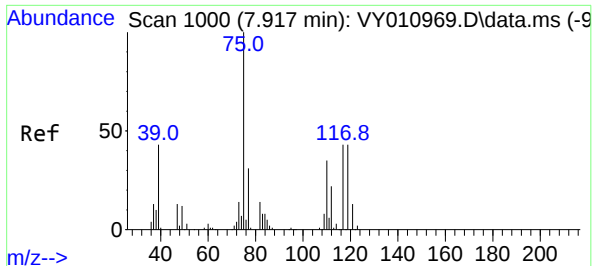
Ion Ratio Lower Upper

113 100

111 102.7 82.6 124.0

192 19.6 17.6 26.4

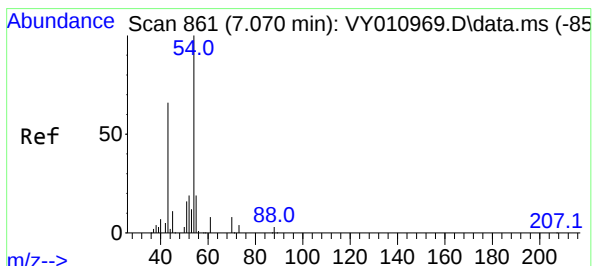
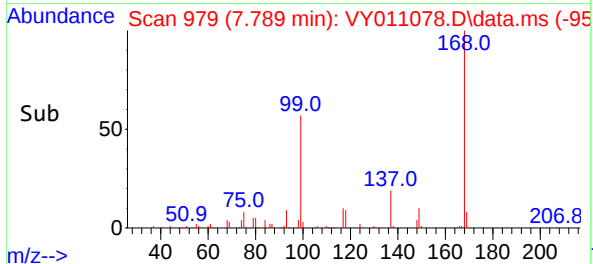
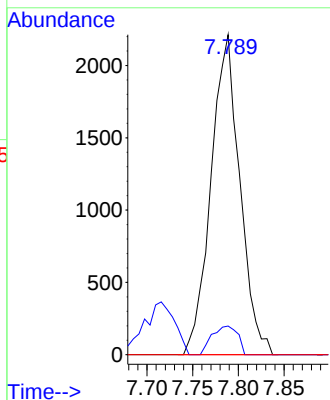
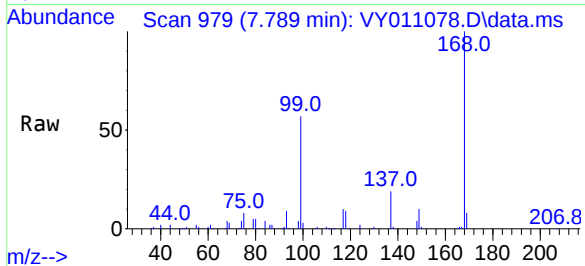




#36  
1,1-Dichloropropene  
Concen: 5.119 ug/l  
RT: 7.789 min Scan# 911  
Delta R.T. -0.128 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

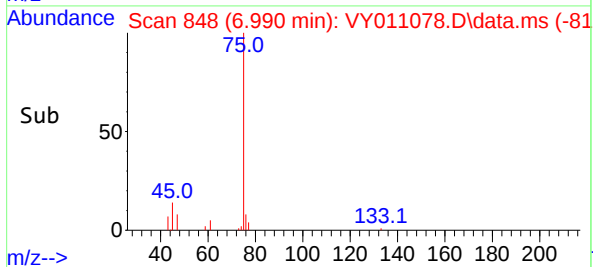
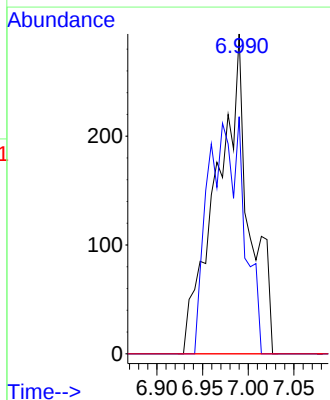
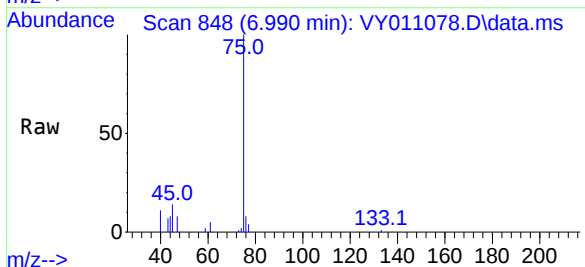
Instrument :  
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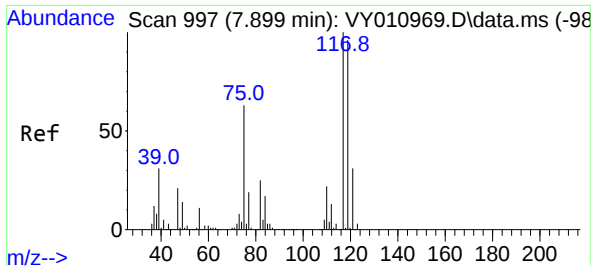
Tgt Ion: 75 Resp: 4875  
Ion Ratio Lower Upper  
75 100  
110 8.0 17.1 51.2#  
77 0.0 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 1.386 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. -0.080 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Tgt Ion: 43 Resp: 731  
Ion Ratio Lower Upper  
43 100  
61 79.5 9.7 14.5#  
70 0.0 7.1 10.7#

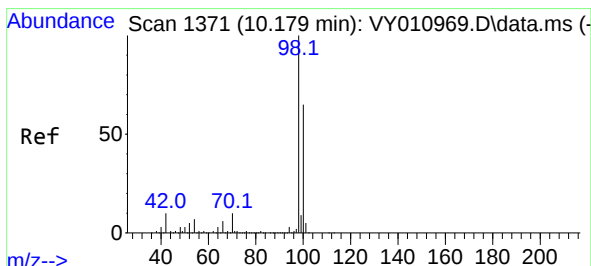
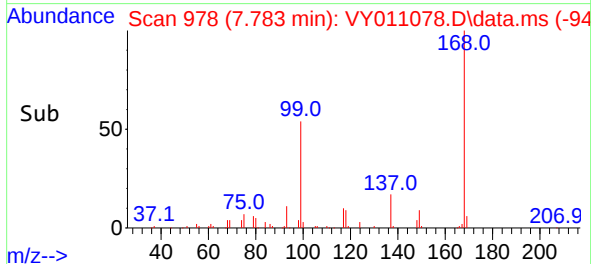
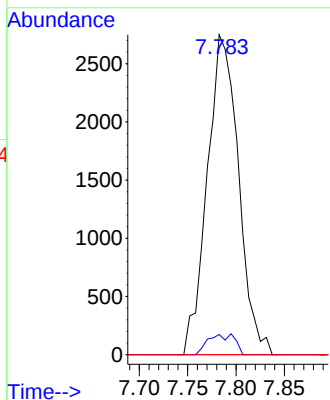
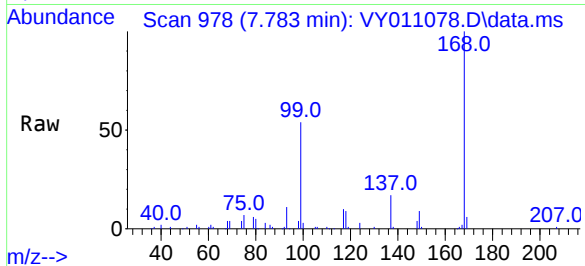




#38  
Carbon Tetrachloride  
Concen: 6.288 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

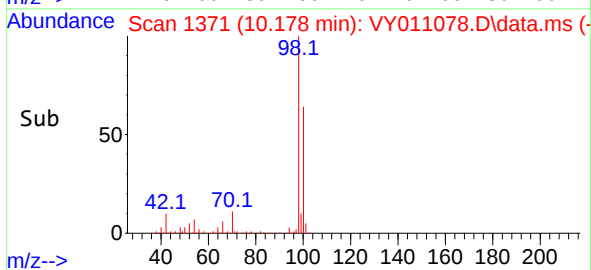
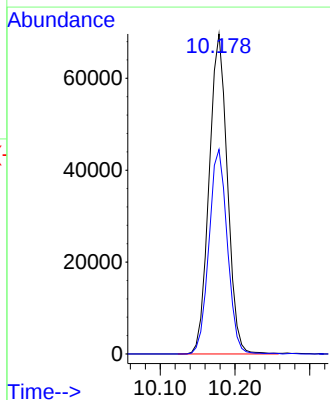
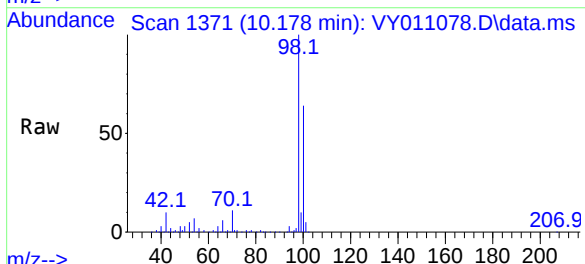
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375

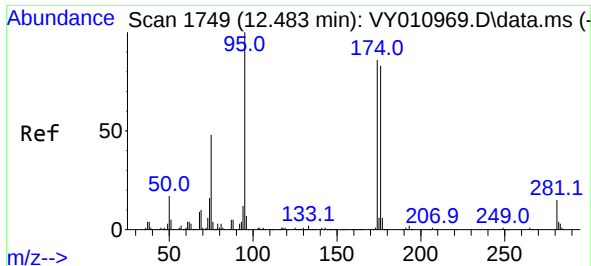
Tgt Ion:117 Resp: 6182  
Ion Ratio Lower Upper  
117 100  
119 6.3 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 55.377 ug/l  
RT: 10.178 min Scan# 1371  
Delta R.T. -0.001 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Tgt Ion: 98 Resp: 118299  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.2 75.2

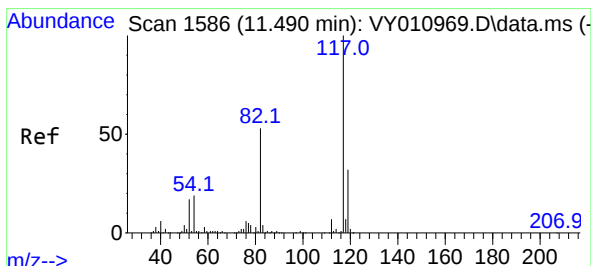
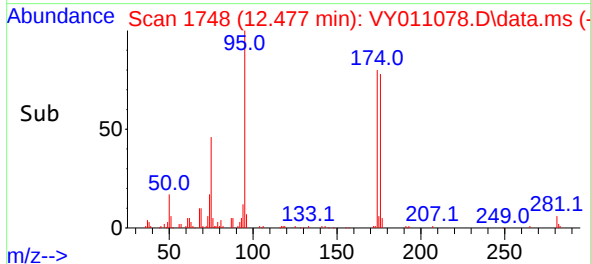
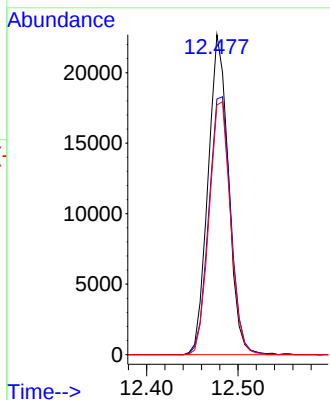
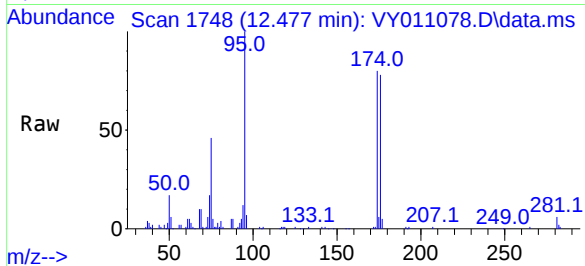




#62  
4-Bromofluorobenzene  
Concen: 46.280 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

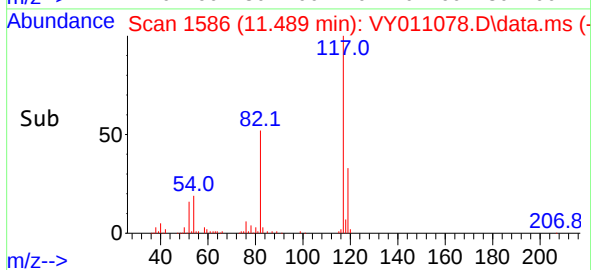
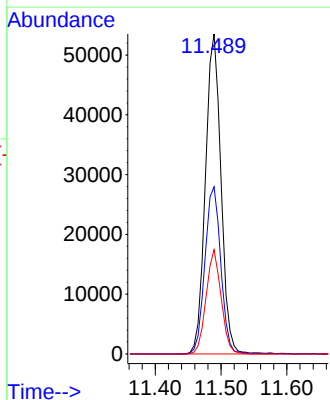
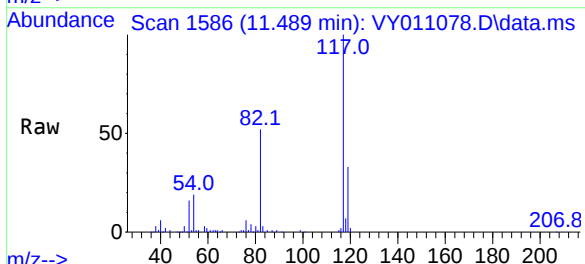
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375

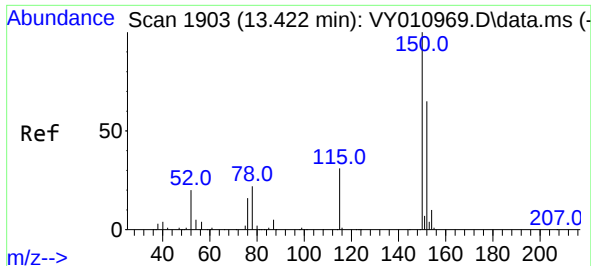
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 35194 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 86.8  | 0.0   | 177.0 |
| 176      | 82.6  | 0.0   | 175.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.001 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 88160 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 52.3  | 43.0  | 64.4  |
| 119      | 32.6  | 25.4  | 38.0  |

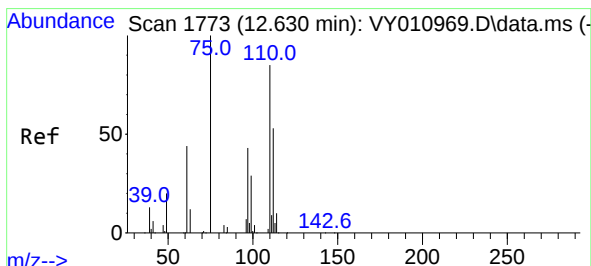
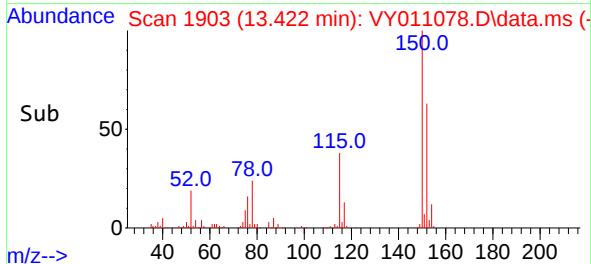
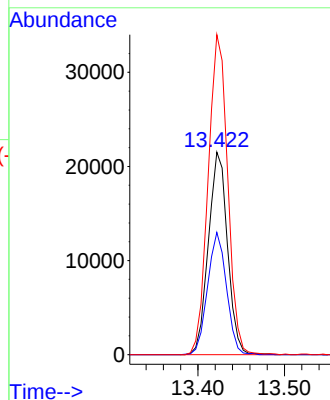
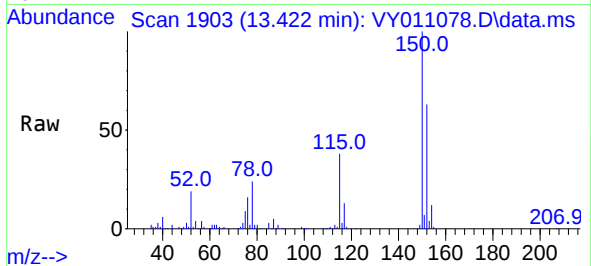




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.000 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

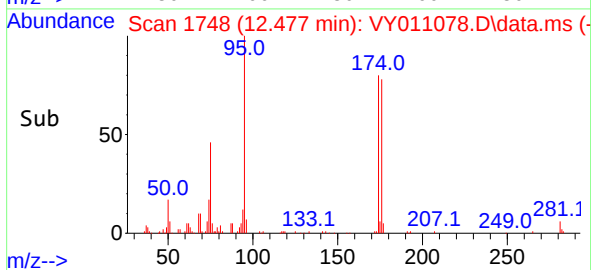
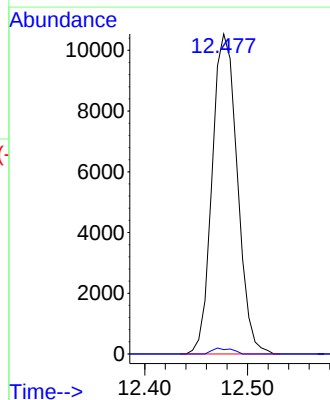
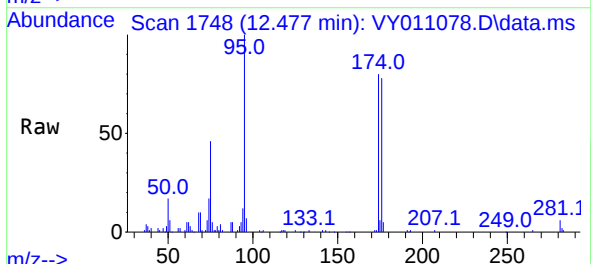
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375

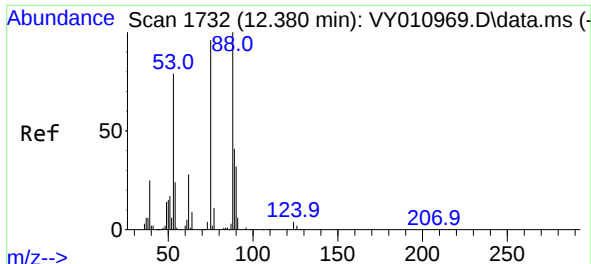
Tgt Ion:152 Resp: 33060  
Ion Ratio Lower Upper  
152 100  
115 59.5 28.2 84.7  
150 161.1 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 47.728 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

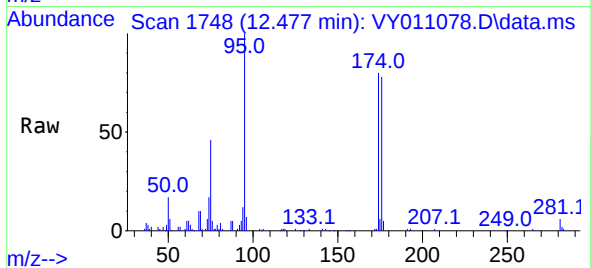
Tgt Ion: 75 Resp: 17914  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 102.649 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.097 min  
Lab File: VY011078.D  
Acq: 24 Oct 2022 18:37

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-251375



Tgt Ion: 75 Resp: 17914  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#

