

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021722\  
 Data File : VY007530.D  
 Acq On : 17 Feb 2022 18:11  
 Operator : SY/MD  
 Sample : N1580-05  
 Misc : 5.81g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 D-5

Quant Time: Feb 18 07:42:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y021422S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 15 09:34:50 2022  
 Response via : Initial Calibration

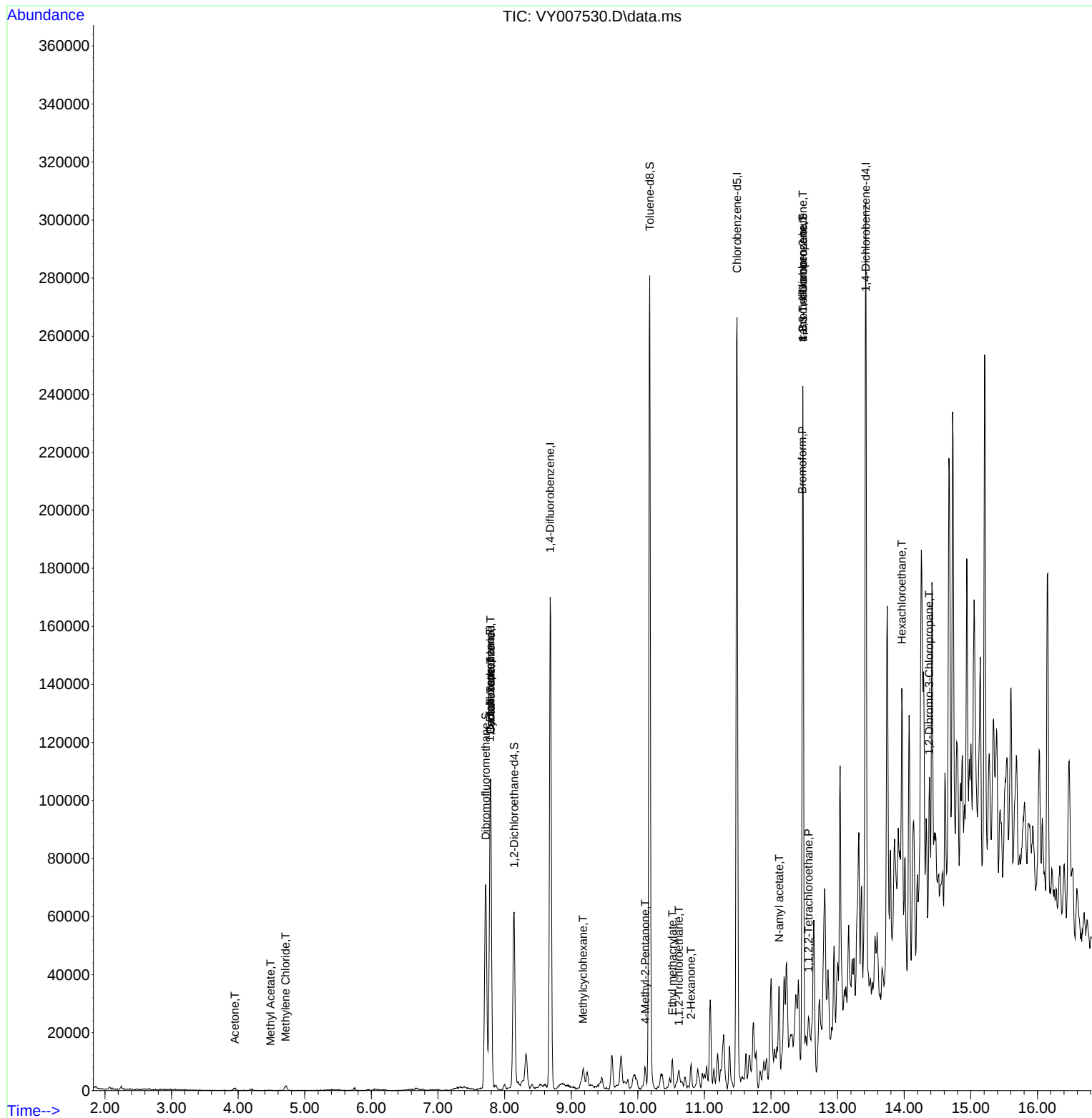
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 81595    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685     | 114   | 146898   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 147008   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 68795    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65    | 47706    | 52.956    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 105.920% |          |
| 35) Dibromofluoromethane      | 7.716     | 113   | 48621    | 52.485    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 104.960% |          |
| 50) Toluene-d8                | 10.179    | 98    | 177769   | 50.524    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 101.040% |          |
| 62) 4-Bromofluorobenzene      | 12.477    | 95    | 67848    | 56.870    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 113.740% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.107     | 50    | 255      | Below Cal | #          | 80       |
| 5) Bromomethane               | 2.662     | 94    | 20       | Below Cal | #          | 55       |
| 16) Acetone                   | 3.948     | 43    | 1379     | 5.770     | ug/l       | 100      |
| 18) Methyl Acetate            | 4.485     | 43    | 155      | 1.643     | ug/l #     | 56       |
| 20) Methylene Chloride        | 4.710     | 84    | 1301     | 1.328     | ug/l #     | 84       |
| 31) Cyclohexane               | 7.789     | 56    | 2016     | 1.265     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.783     | 75    | 5985     | 3.988     | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 9008     | 5.282     | ug/l #     | 15       |
| 39) Methylcyclohexane         | 9.179     | 83    | 2298     | 1.179     | ug/l       | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.112    | 43    | 900      | 1.316     | ug/l #     | 66       |
| 55) 1,1,2-Trichloroethane     | 10.618    | 97    | 2338     | 2.893     | ug/l #     | 22       |
| 56) Ethyl methacrylate        | 10.520    | 69    | 1302     | 1.198     | ug/l #     | 69       |
| 59) 2-Hexanone                | 10.801    | 43    | 3056     | 6.188     | ug/l #     | 32       |
| 71) Bromoform                 | 12.471    | 173   | 707      | 1.056     | ug/l #     | 1        |
| 74) N-amyl acetate            | 12.124    | 43    | 6317     | 4.578     | ug/l #     | 64       |
| 75) 1,1,2,2-Tetrachloroethane | 12.562    | 83    | 1321     | 1.265     | ug/l #     | 90       |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 35939    | 45.213    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 35939    | 93.972    | ug/l #     | 8        |
| 90) Hexachloroethane          | 13.965    | 117   | 2825     | 2.760     | ug/l #     | 6        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.373    | 75    | 281      | 1.585     | ug/l #     | 6        |
| -----                         |           |       |          |           |            |          |

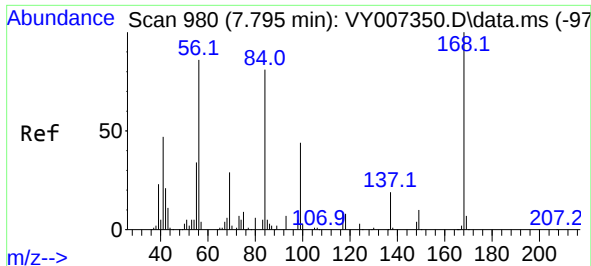
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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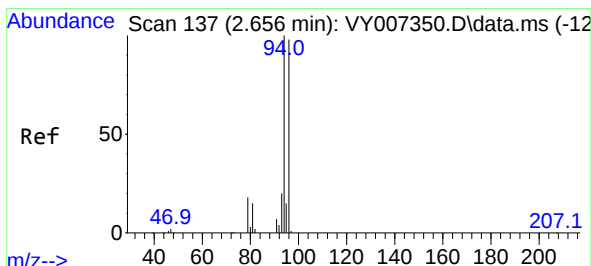
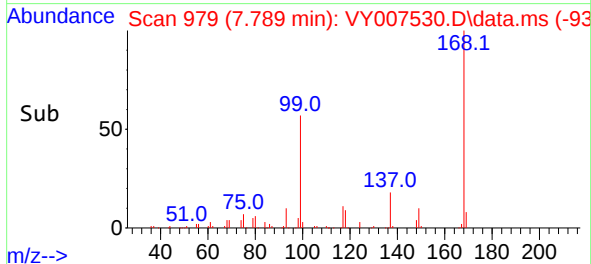
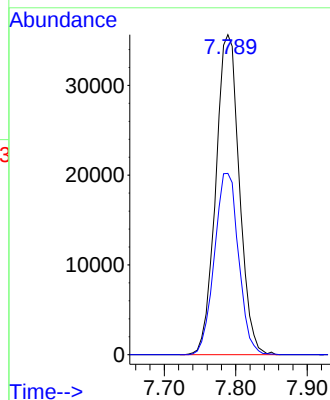
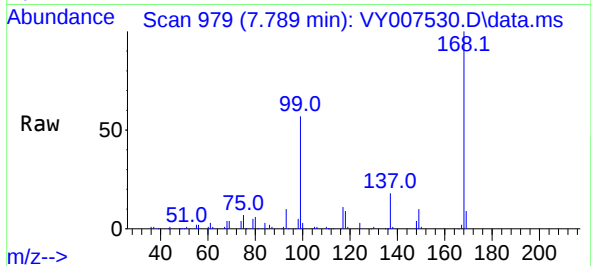




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

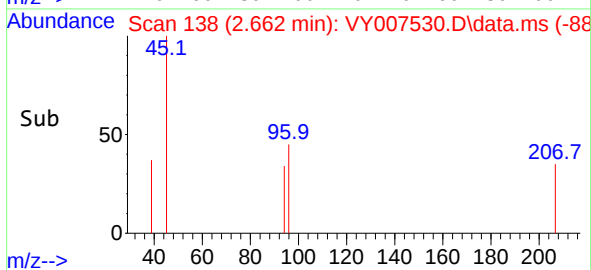
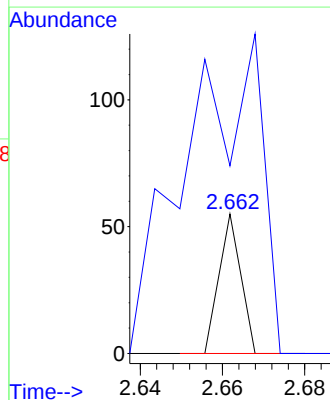
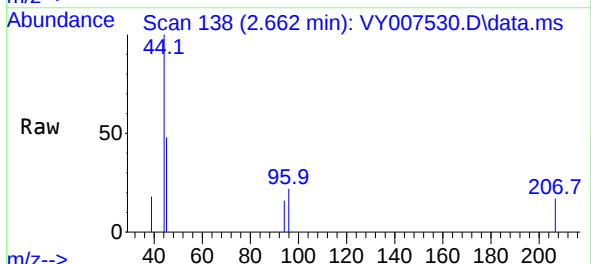
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D-5

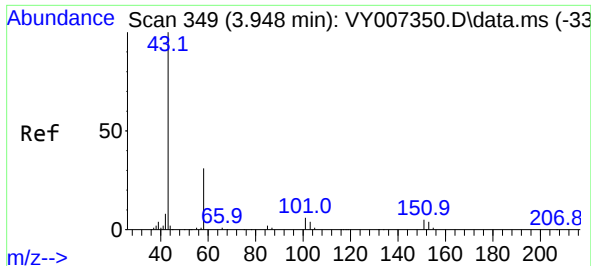
Tgt Ion:168 Resp: 81595  
Ion Ratio Lower Upper  
168 100  
99 56.6 46.9 70.3



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 138  
Delta R.T. 0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 94 Resp: 20  
Ion Ratio Lower Upper  
94 100  
96 134.5 73.5 110.3#

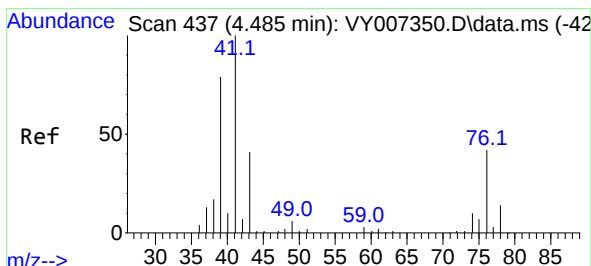
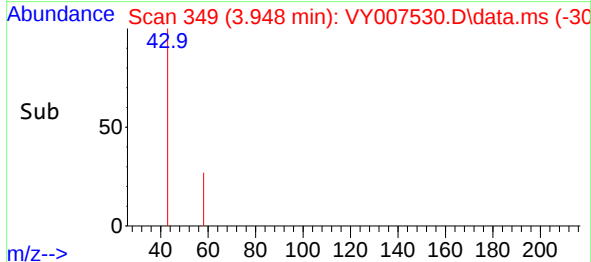
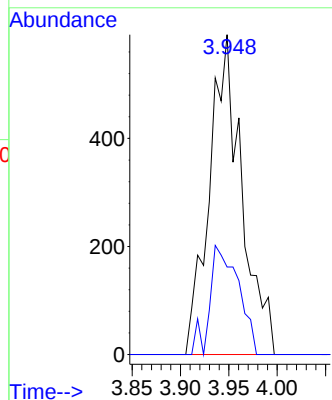
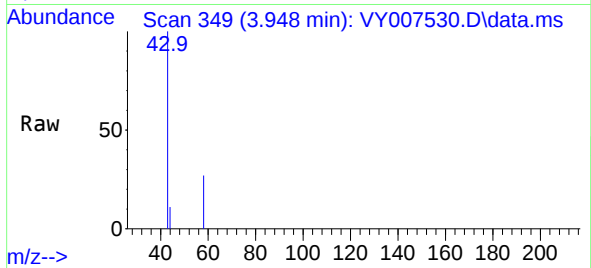




#16  
Acetone  
Concen: 5.770 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. 0.000 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

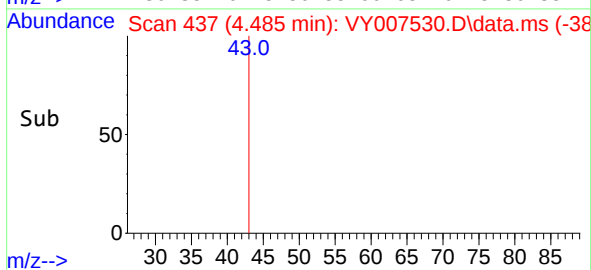
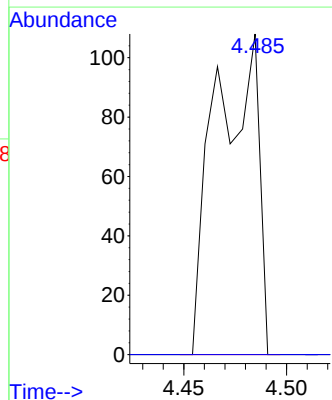
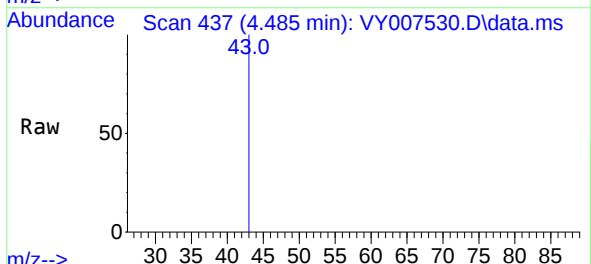
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D-5

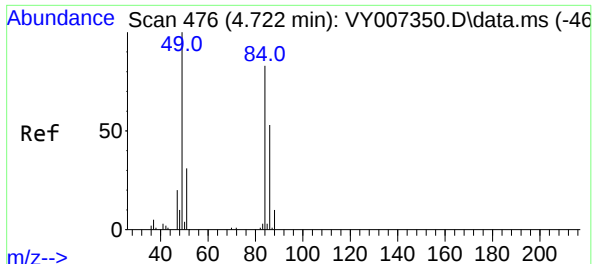
Tgt Ion: 43 Resp: 1379  
Ion Ratio Lower Upper  
43 100  
58 27.4 22.0 33.0



#18  
Methyl Acetate  
Concen: 1.643 ug/l  
RT: 4.485 min Scan# 437  
Delta R.T. -0.000 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 43 Resp: 155  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



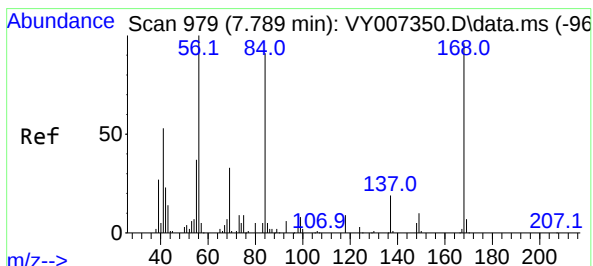
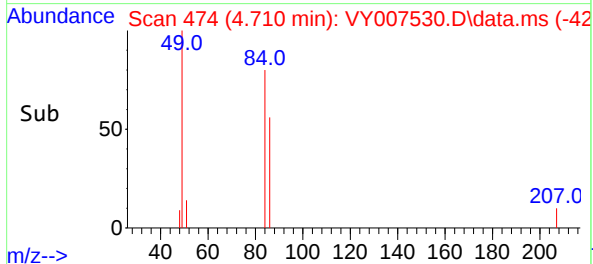
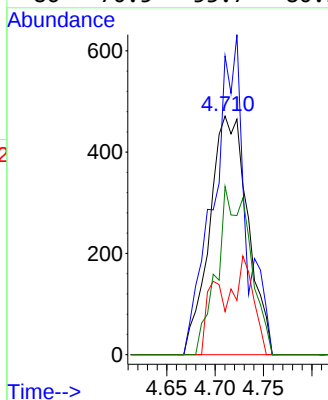
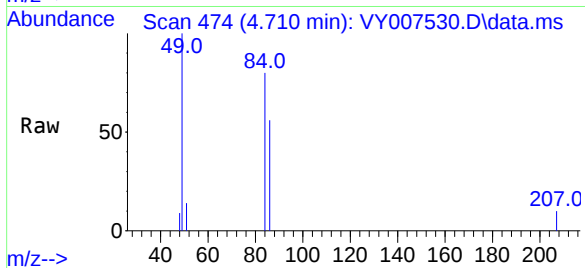


#20  
Methylene Chloride  
Concen: 1.328 ug/l  
RT: 4.710 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Instrument :  
MSVOA\_Y  
ClientSampleId :  
D-5

Tgt Ion: 84 Resp: 1301

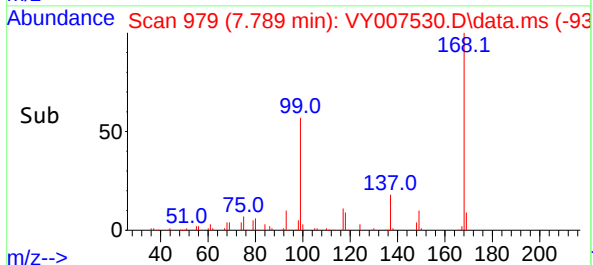
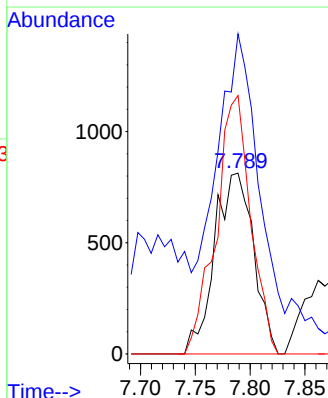
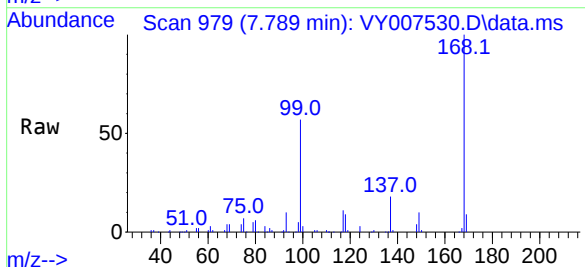
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 125.3 | 114.4 | 171.6 |
| 51  | 18.0  | 35.3  | 52.9# |
| 86  | 70.5  | 53.7  | 80.5  |

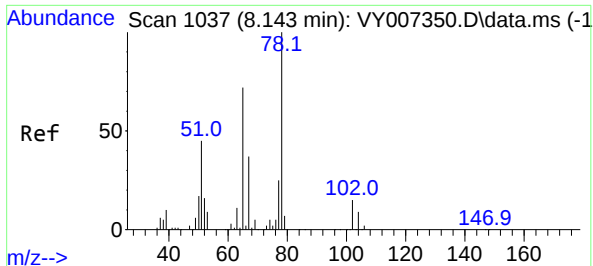


#31  
Cyclohexane  
Concen: 1.265 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.000 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 56 Resp: 2016

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 143.3 | 26.7  | 40.1#  |
| 84  | 142.9 | 67.2  | 100.8# |





#33

1,2-Dichloroethane-d4

Concen: 52.956 ug/l

RT: 8.143 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY007530.D

Acq: 17 Feb 2022 18:11

Instrument :

MSVOA\_Y

ClientSampleId :

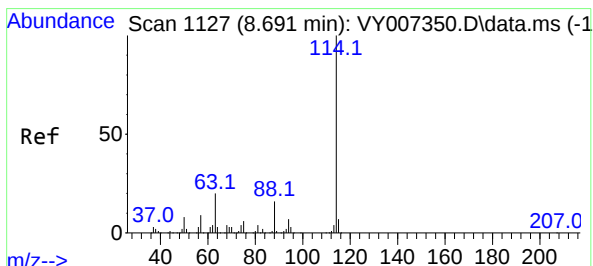
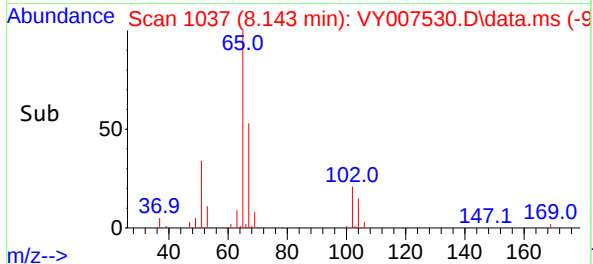
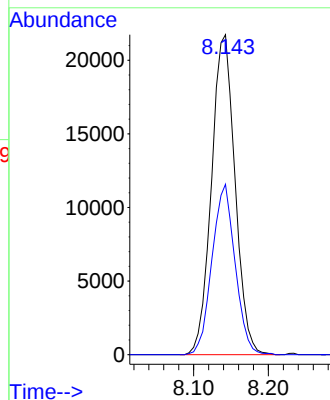
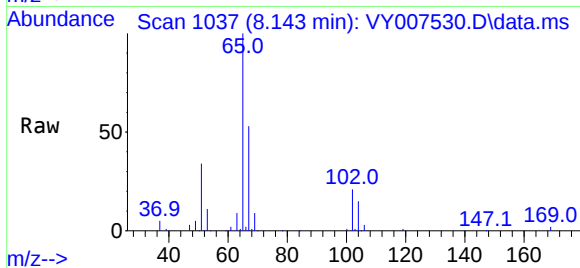
D-5

Tgt Ion: 65 Resp: 47706

Ion Ratio Lower Upper

65 100

67 52.2 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY007530.D

Acq: 17 Feb 2022 18:11

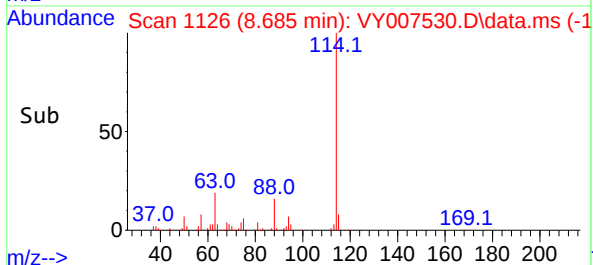
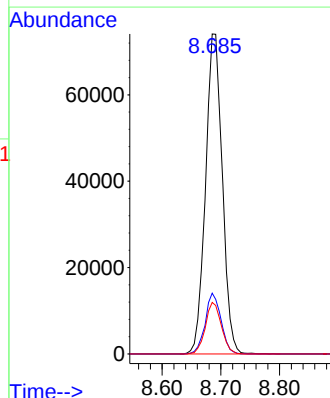
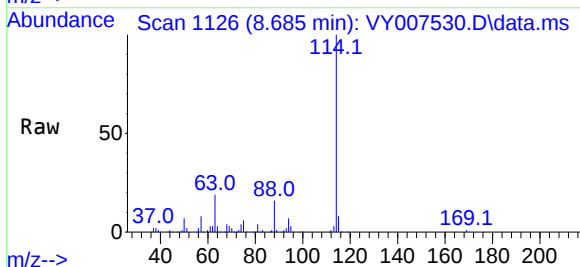
Tgt Ion: 114 Resp: 146898

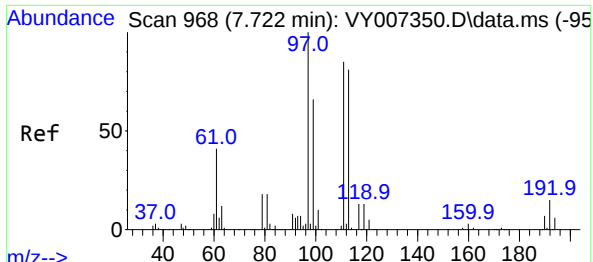
Ion Ratio Lower Upper

114 100

63 19.0 0.0 43.2

88 16.1 0.0 31.8

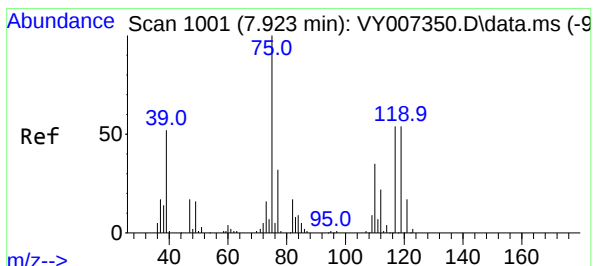
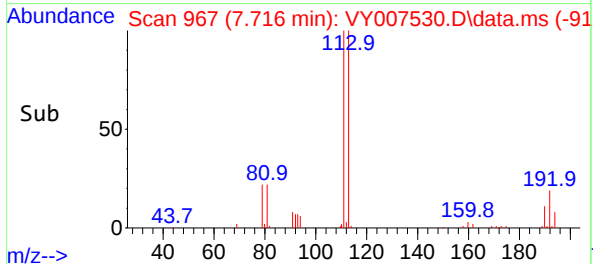
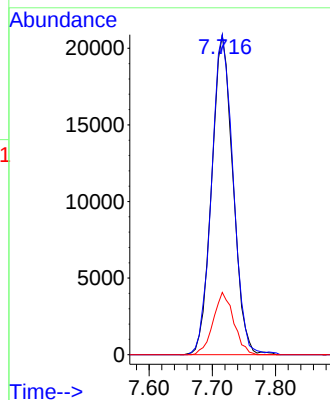
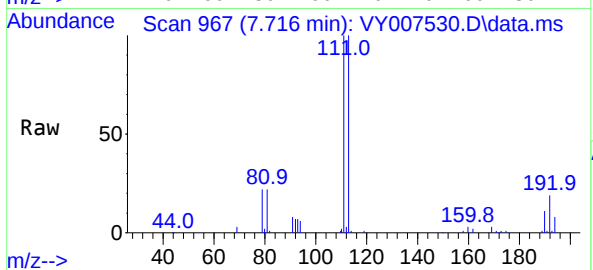




#35  
Dibromofluoromethane  
Concen: 52.485 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

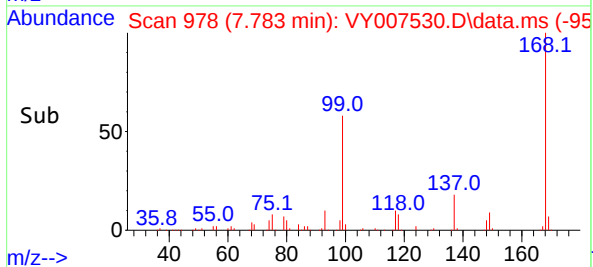
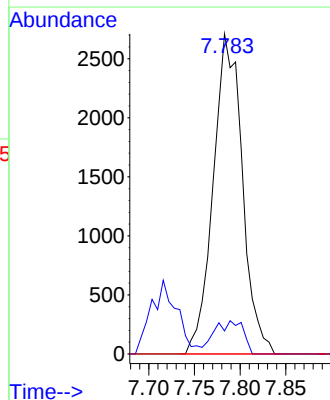
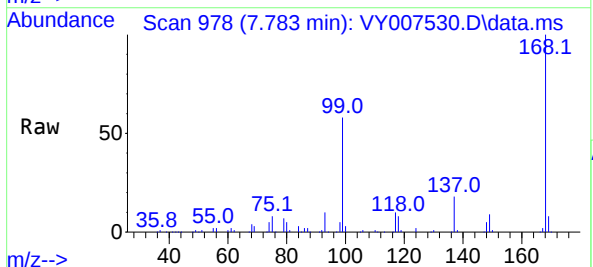
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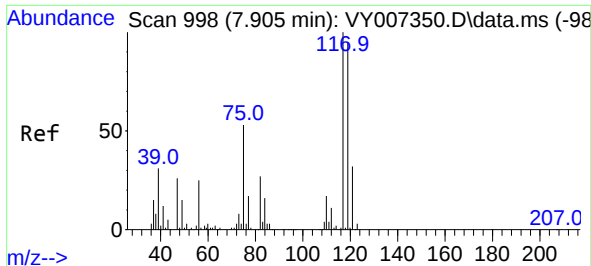
Tgt Ion:113 Resp: 48621  
Ion Ratio Lower Upper  
113 100  
111 101.7 82.6 124.0  
192 18.8 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 3.988 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 75 Resp: 5985  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.1 51.2#  
77 0.0 24.4 36.6#

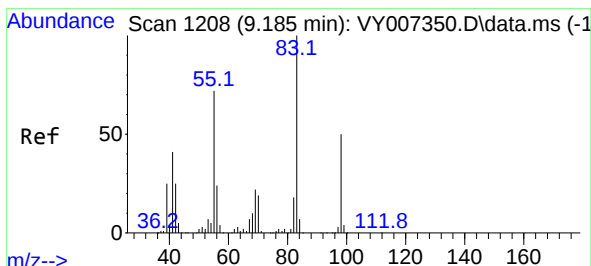
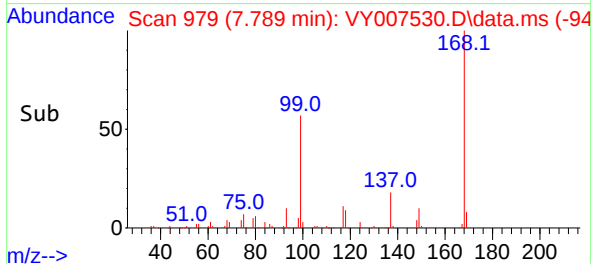
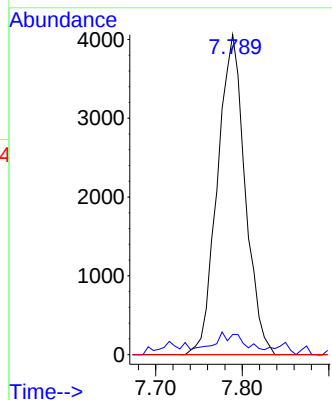
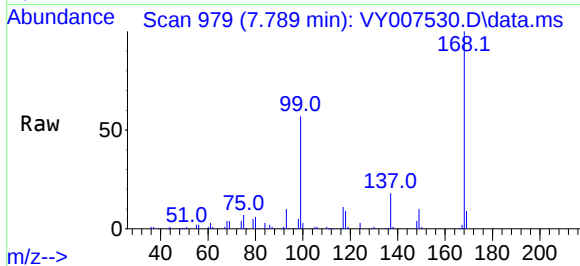




#38  
Carbon Tetrachloride  
Concen: 5.282 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

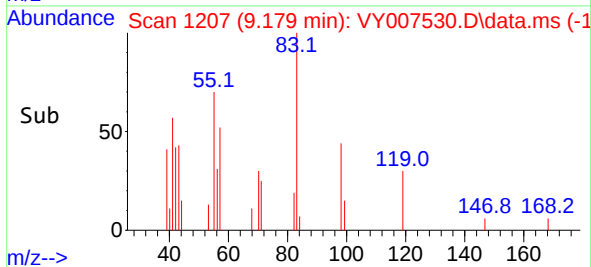
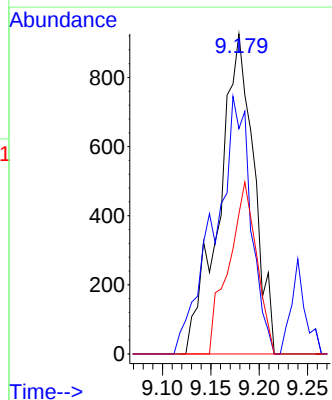
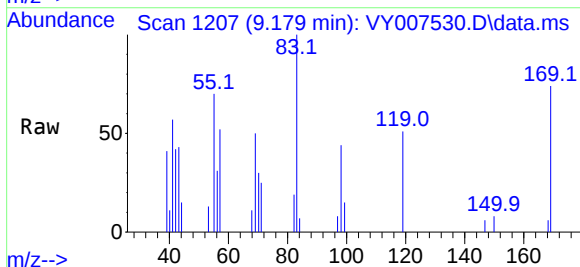
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D-5

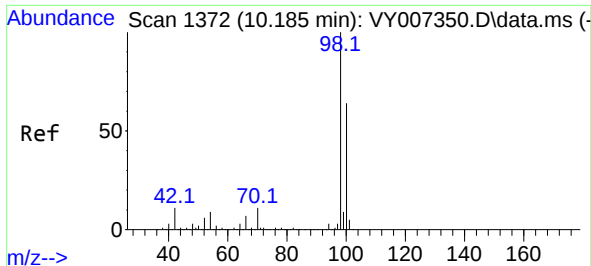
Tgt Ion:117 Resp: 9008  
Ion Ratio Lower Upper  
117 100  
119 4.5 77.9 116.9#  
121 0.0 24.8 37.2#



#39  
Methylcyclohexane  
Concen: 1.179 ug/l  
RT: 9.179 min Scan# 1207  
Delta R.T. -0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 83 Resp: 2298  
Ion Ratio Lower Upper  
83 100  
55 70.4 66.5 99.7  
98 43.7 37.9 56.9

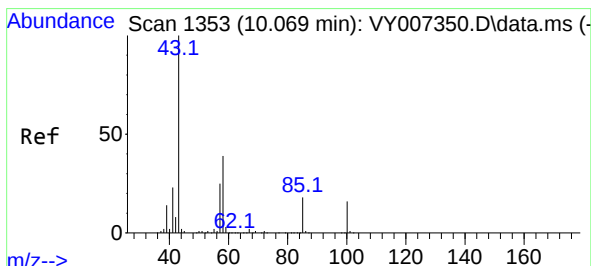
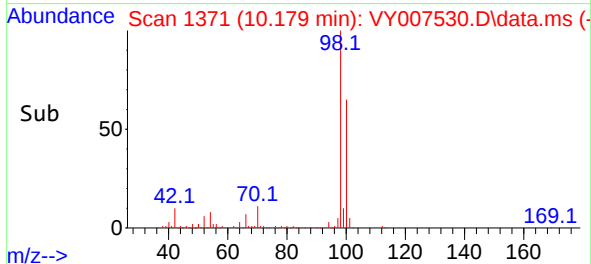
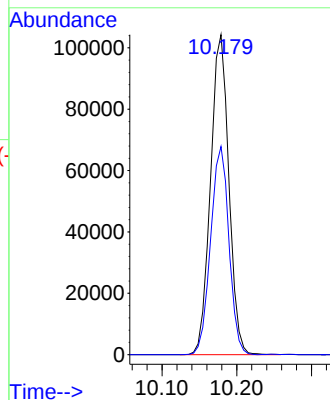
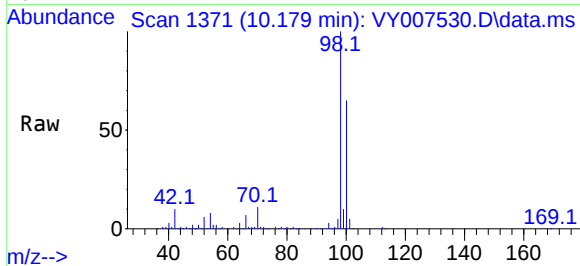




#50  
Toluene-d8  
Concen: 50.524 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

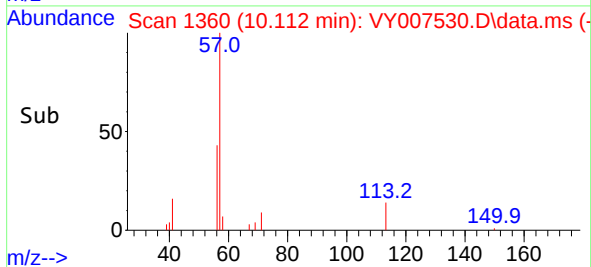
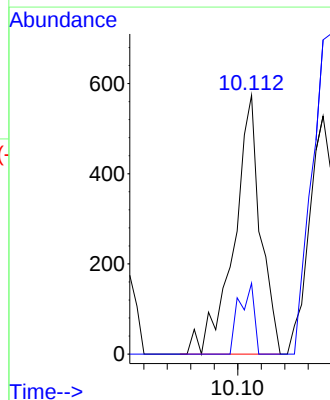
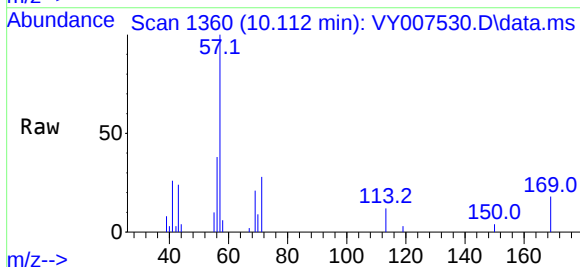
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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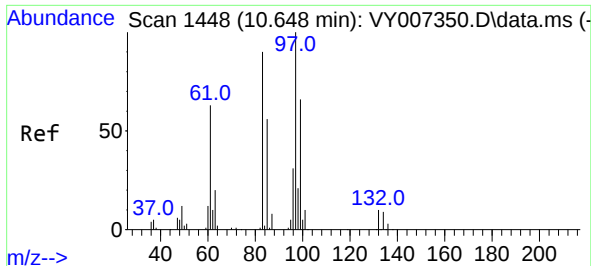
Tgt Ion: 98 Resp: 177769  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.316 ug/l  
RT: 10.112 min Scan# 1360  
Delta R.T. 0.043 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 43 Resp: 900  
Ion Ratio Lower Upper  
43 100  
58 15.4 28.1 42.1#

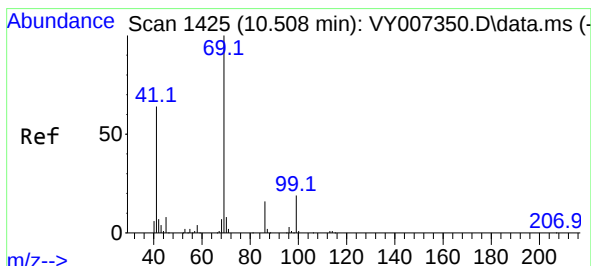
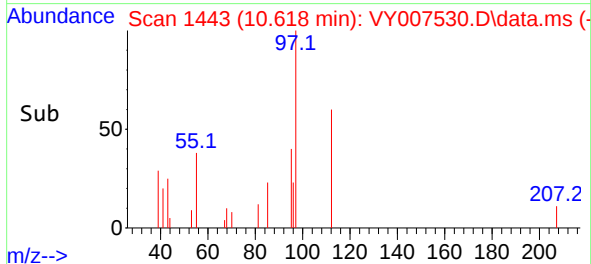
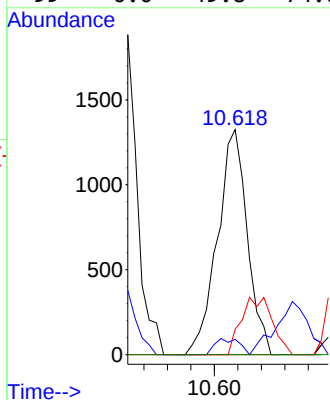
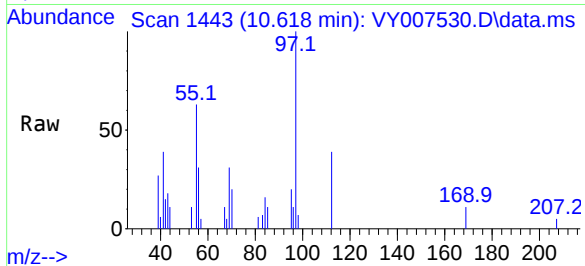




#55  
1,1,2-Trichloroethane  
Concen: 2.893 ug/l  
RT: 10.618 min Scan# 1443  
Delta R.T. -0.030 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

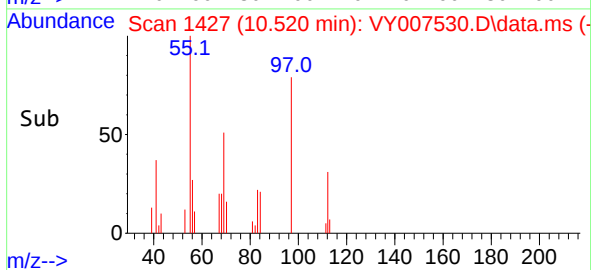
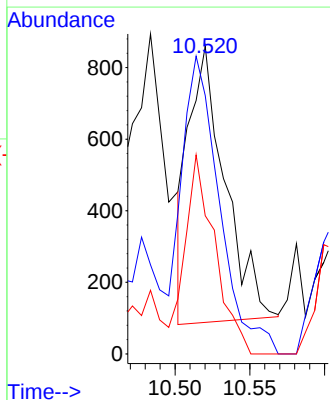
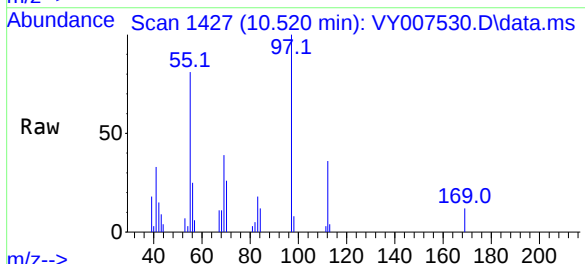
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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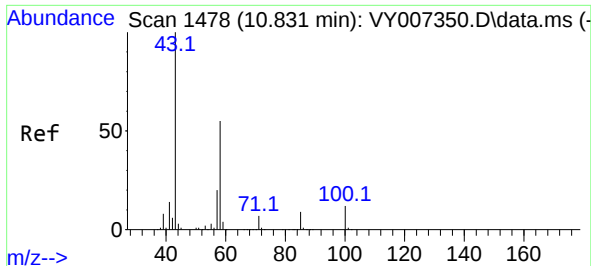
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 2338   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 6.8   | 69.8  | 104.8# |
| 85       | 11.3  | 44.3  | 66.5#  |
| 99       | 0.0   | 49.8  | 74.6#  |



#56  
Ethyl methacrylate  
Concen: 1.198 ug/l  
RT: 10.520 min Scan# 1427  
Delta R.T. 0.012 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 1302  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 111.4 | 63.4  | 95.0# |
| 39       | 58.9  | 35.8  | 53.8# |

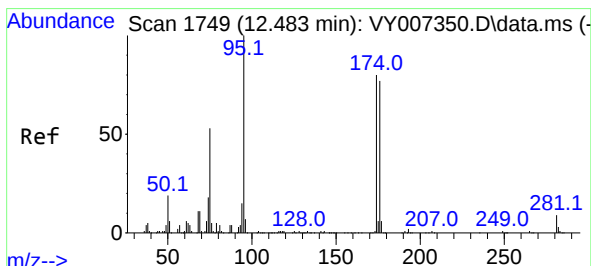
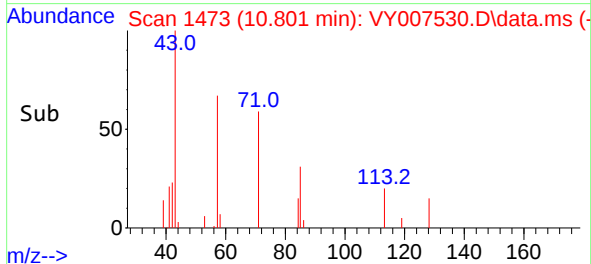
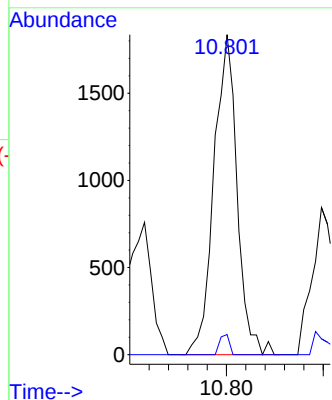
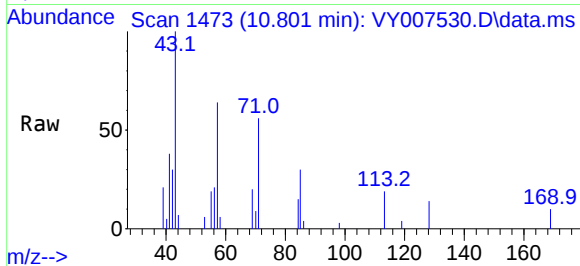




#59  
2-Hexanone  
Concen: 6.188 ug/l  
RT: 10.801 min Scan# 1478  
Delta R.T. -0.030 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

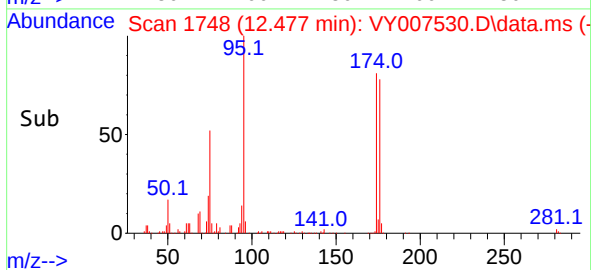
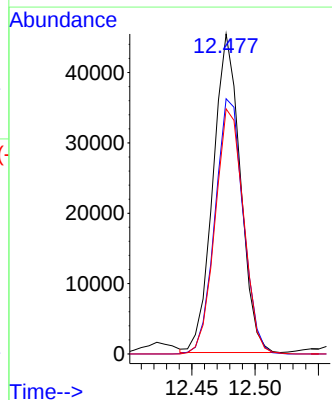
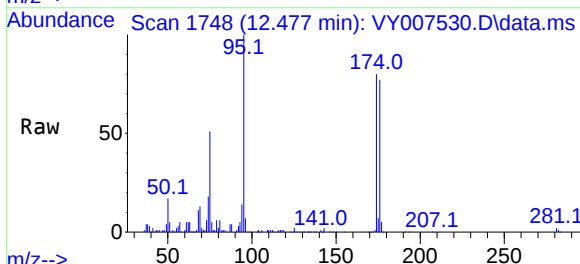
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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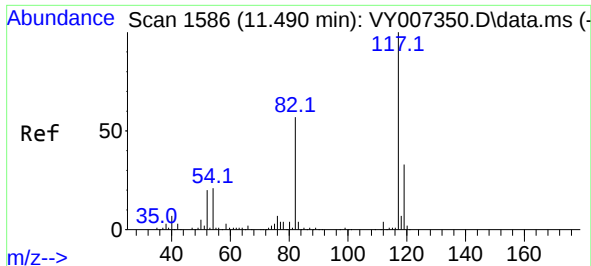
Tgt Ion: 43 Resp: 3056  
Ion Ratio Lower Upper  
43 100  
58 2.6 24.4 73.4#



#62  
4-Bromofluorobenzene  
Concen: 56.870 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 95 Resp: 67848  
Ion Ratio Lower Upper  
95 100  
174 82.7 0.0 177.0  
176 80.0 0.0 175.8

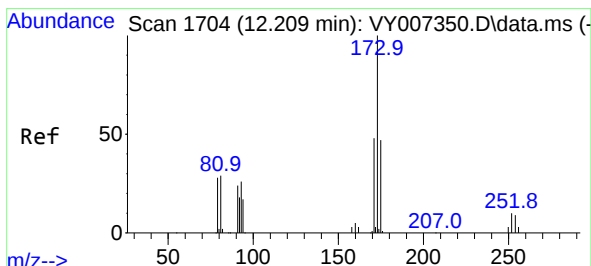
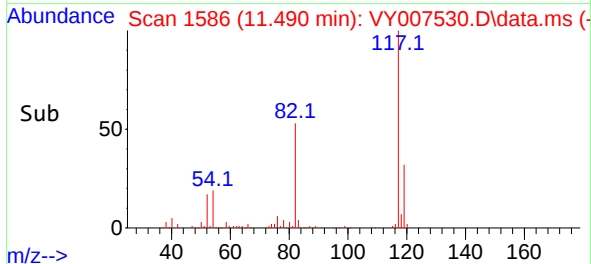
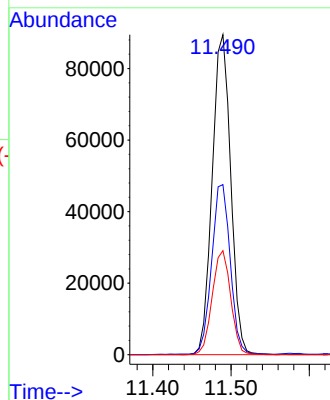
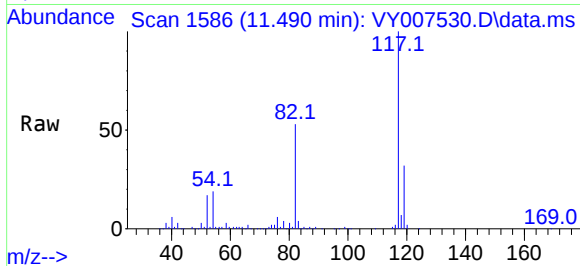




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

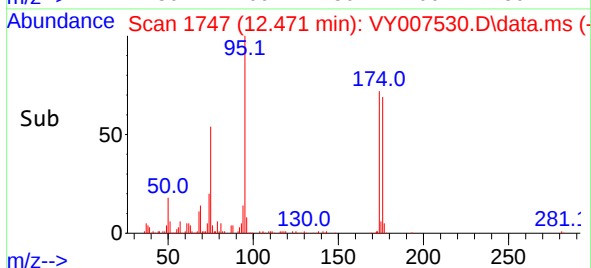
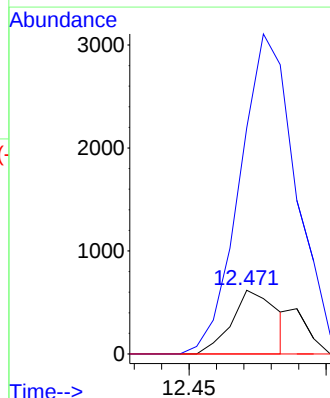
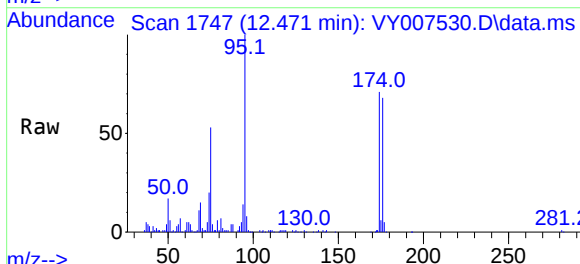
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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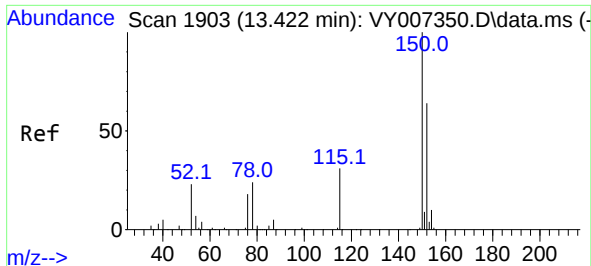
Tgt Ion:117 Resp: 147008  
Ion Ratio Lower Upper  
117 100  
82 53.0 43.0 64.4  
119 32.5 25.4 38.0



#71  
Bromoform  
Concen: 1.056 ug/l  
RT: 12.471 min Scan# 1747  
Delta R.T. 0.262 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion:173 Resp: 707  
Ion Ratio Lower Upper  
173 100  
175 493.8 24.6 74.0#  
254 0.0 0.0 0.0

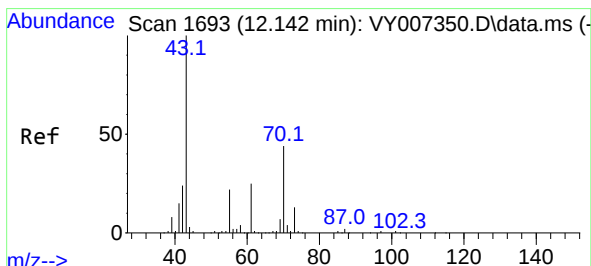
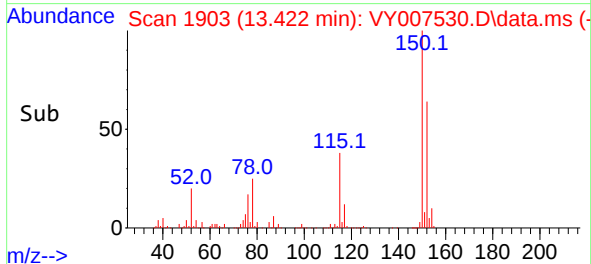
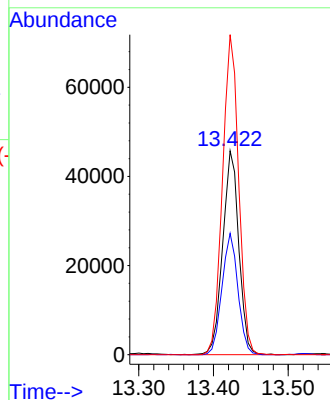
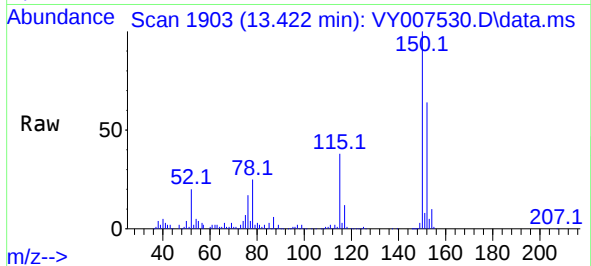




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

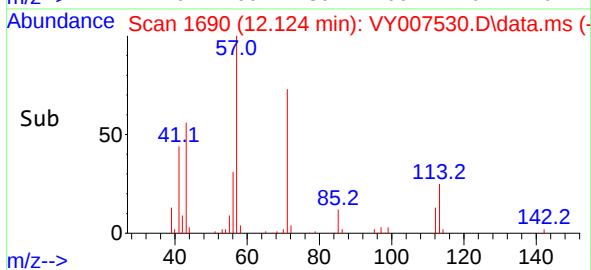
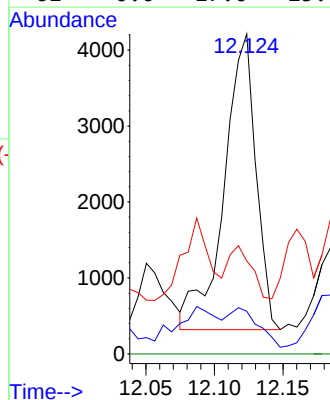
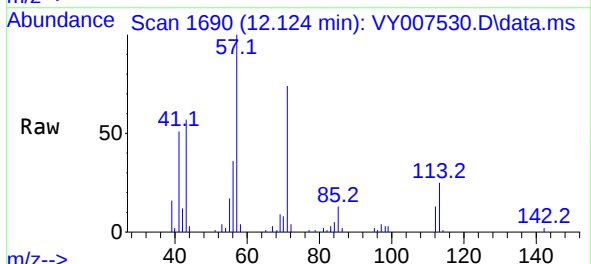
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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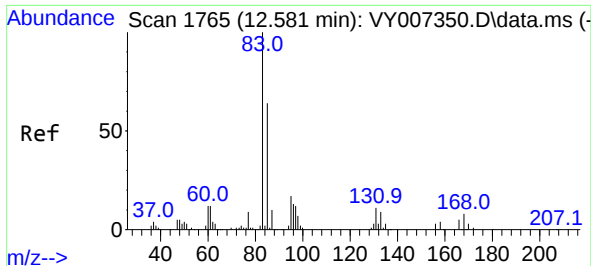
Tgt Ion:152 Resp: 68795  
Ion Ratio Lower Upper  
152 100  
115 58.7 28.2 84.7  
150 157.2 0.0 347.6



#74  
N-ethyl acetate  
Concen: 4.578 ug/l  
RT: 12.124 min Scan# 1690  
Delta R.T. -0.018 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 43 Resp: 6317  
Ion Ratio Lower Upper  
43 100  
70 12.3 28.7 43.1#  
55 12.5 17.3 25.9#  
61 0.0 17.0 25.6#

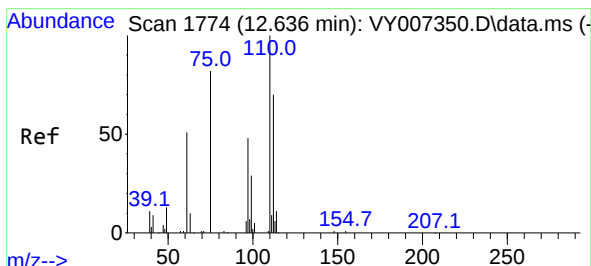
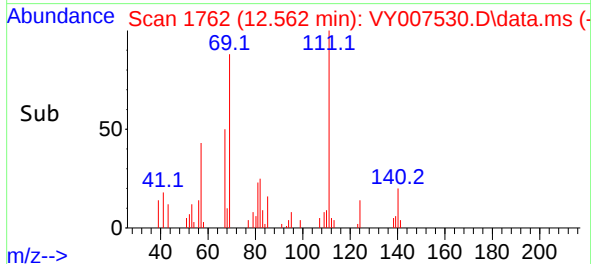
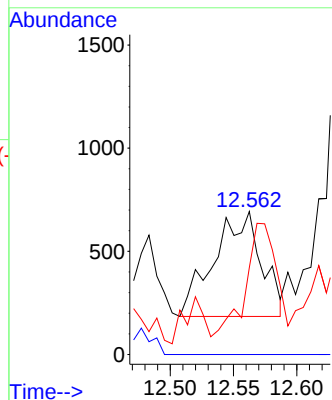
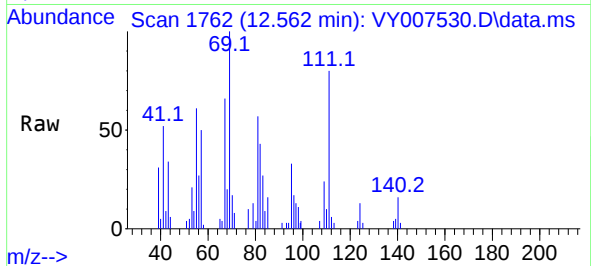




#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.265 ug/l  
RT: 12.562 min Scan# 1762  
Delta R.T. -0.019 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

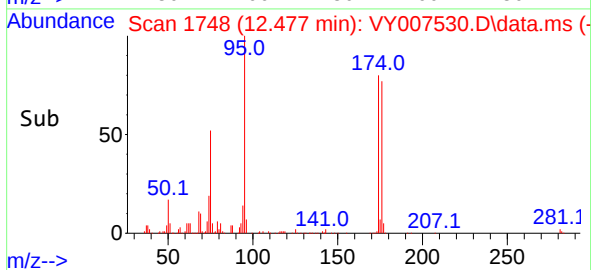
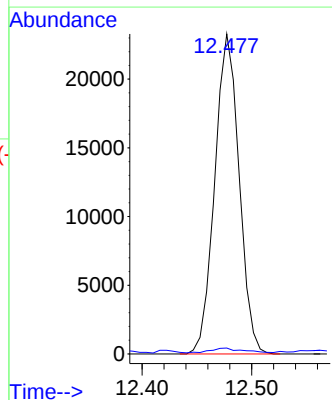
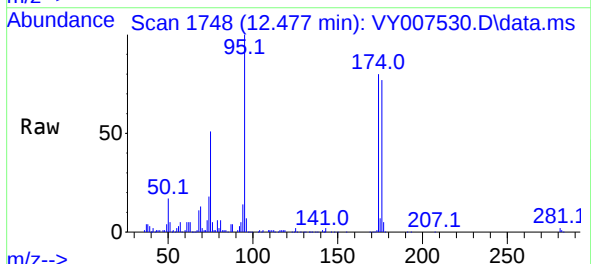
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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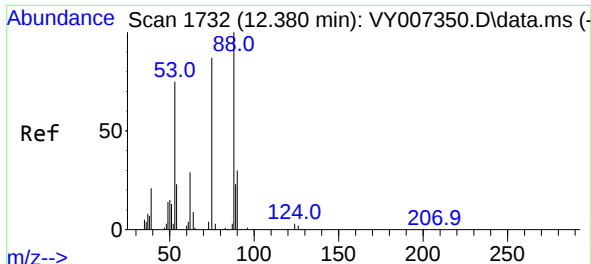
Tgt Ion: 83 Resp: 1321  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.6 16.8#  
85 69.3 32.3 96.8



#76  
1,2,3-Trichloropropane  
Concen: 45.213 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.159 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

Tgt Ion: 75 Resp: 35939  
Ion Ratio Lower Upper  
75 100  
77 1.9 0.0 0.0#

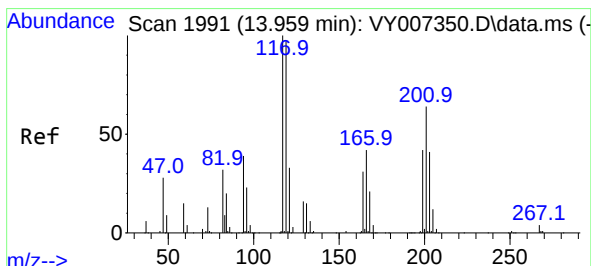
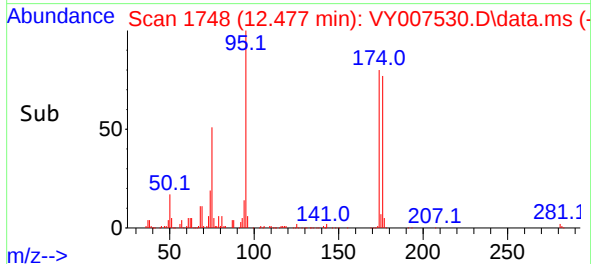
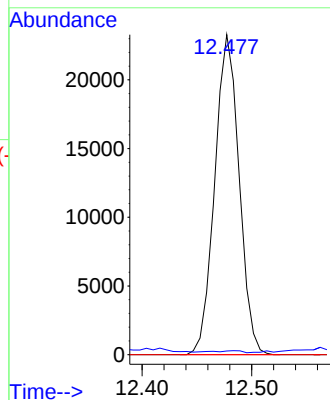
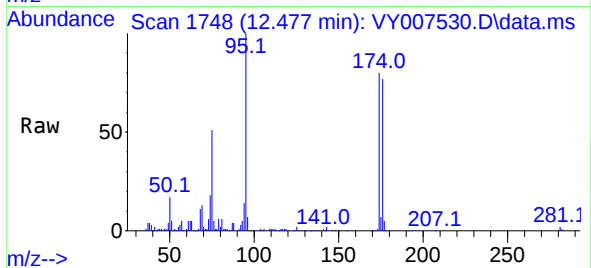




#81  
trans-1,4-Dichloro-2-butene  
Concen: 93.972 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.097 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

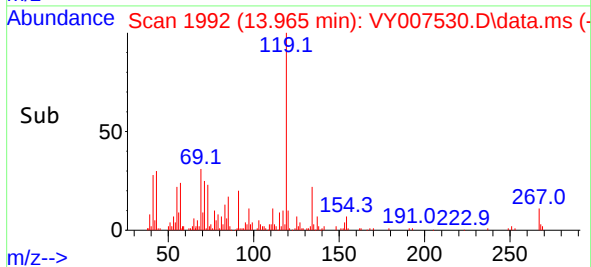
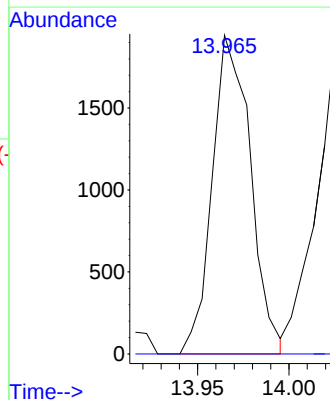
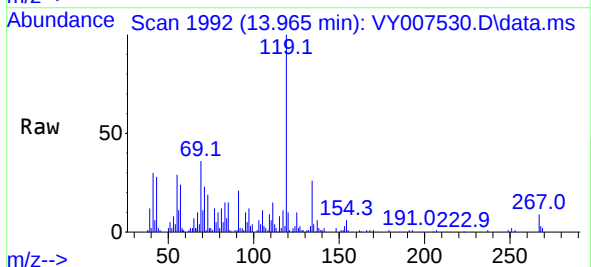
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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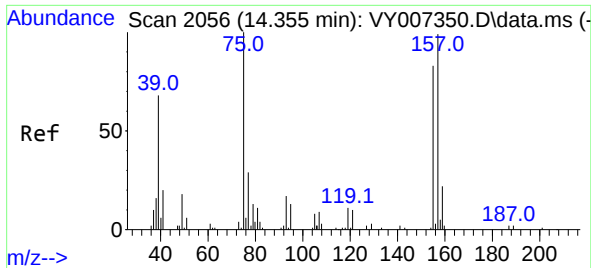
Tgt Ion: 75 Resp: 35939  
Ion Ratio Lower Upper  
75 100  
53 0.7 85.3 127.9#  
89 0.0 37.0 55.4#



#90  
Hexachloroethane  
Concen: 2.760 ug/l  
RT: 13.965 min Scan# 1992  
Delta R.T. 0.006 min  
Lab File: VY007530.D  
Acq: 17 Feb 2022 18:11

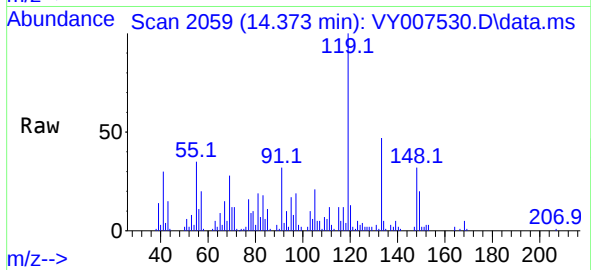
Tgt Ion: 117 Resp: 2825  
Ion Ratio Lower Upper  
117 100  
201 0.0 43.0 128.8#





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.585 ug/l  
 RT: 14.373 min Scan# 2059  
 Delta R.T. 0.018 min  
 Lab File: VY007530.D  
 Acq: 17 Feb 2022 18:11

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Tgt Ion: 75 Resp: 281  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 38.0 113.9#  
 157 0.0 47.8 143.3#

