

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091522\  
 Data File : VY010512.D  
 Acq On : 15 Sep 2022 15:39  
 Operator : KP/MD  
 Sample : N4634-04  
 Misc : 5.68g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-2

Quant Time: Sep 16 02:56:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 09 17:08:30 2022  
 Response via : Initial Calibration

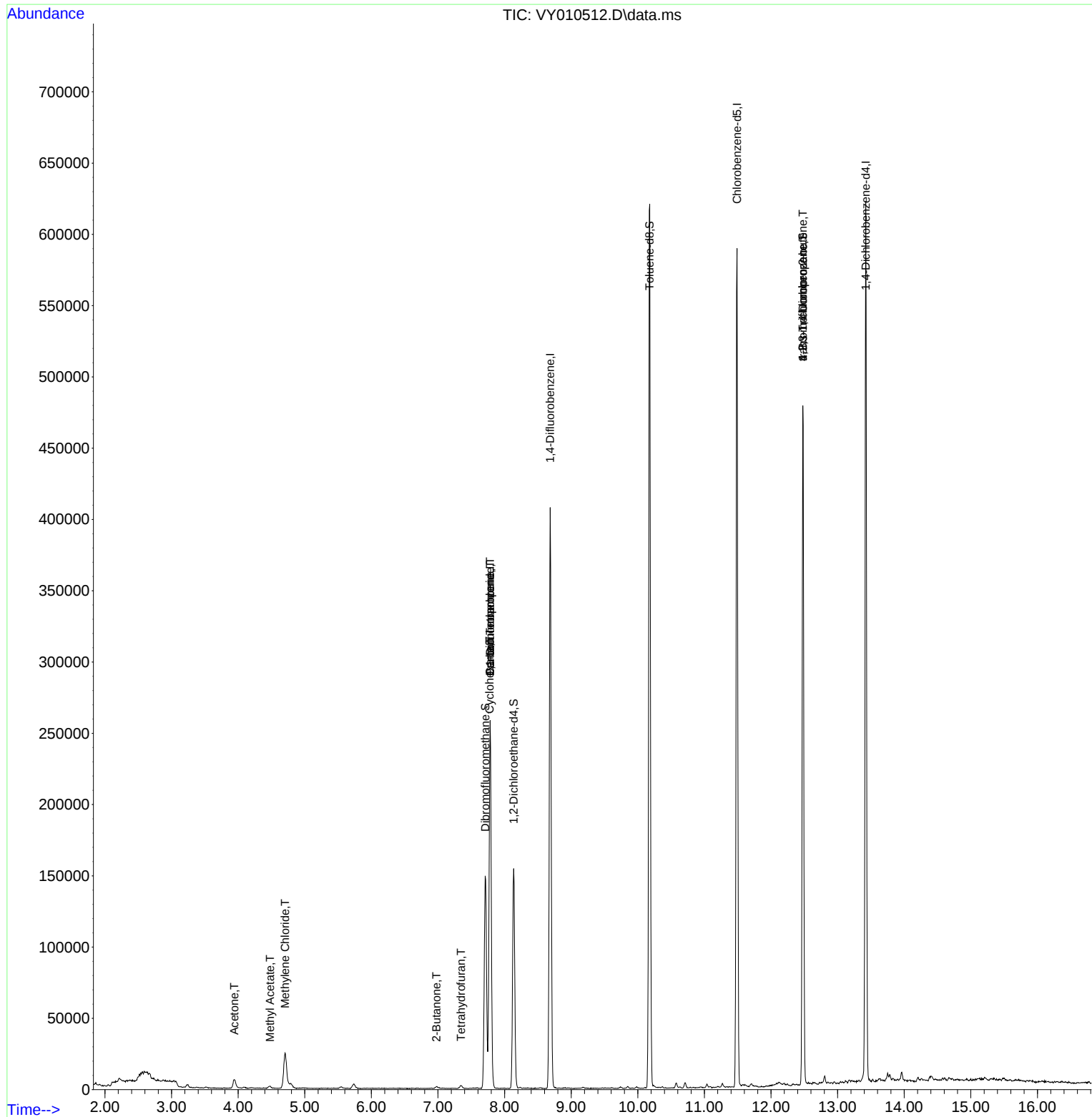
| Compound                      | R.T.           | QIon | Response            | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|-------|----------|
| -----                         |                |      |                     |           |       |          |
| Internal Standards            |                |      |                     |           |       |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 204100              | 50.000    | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 349402              | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 331925              | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 157364              | 50.000    | ug/l  | 0.00     |
|                               |                |      |                     |           |       |          |
| System Monitoring Compounds   |                |      |                     |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 121165              | 58.943    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 117.880% |           |       |          |
| 35) Dibromofluoromethane      | 7.710          | 113  | 108735              | 43.819    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 87.640%  |           |       |          |
| 50) Toluene-d8                | 10.179         | 98   | 416423              | 51.779    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 103.560% |           |       |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 147715              | 45.824    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 91.640%  |           |       |          |
|                               |                |      |                     |           |       |          |
| Target Compounds              |                |      |                     |           |       |          |
| 2) Dichlorodifluoromethane    | 1.900          | 85   | 86                  | Below Cal | #     | 43       |
| 11) Tert butyl alcohol        | 4.948          | 59   | 249                 | Below Cal | #     | 77       |
| 16) Acetone                   | 3.942          | 43   | 11671               | 24.740    | ug/l  | 90       |
| 18) Methyl Acetate            | 4.479          | 43   | 2881                | 1.985     | ug/l  | 93       |
| 20) Methylene Chloride        | 4.704          | 84   | 19086               | 1.722     | ug/l  | # 84     |
| 25) 2-Butanone                | 6.978          | 43   | 1004                | 1.339     | ug/l  | 99       |
| 29) Tetrahydrofuran           | 7.344          | 42   | 1633                | 3.490     | ug/l  | # 88     |
| 31) Cyclohexane               | 7.777          | 56   | 4145                | 1.194     | ug/l  | # 4      |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 14635               | 4.308     | ug/l  | # 51     |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 19969               | 5.284     | ug/l  | # 16     |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 76225               | 43.889    | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 76225               | 97.449    | ug/l  | # 7      |
| -----                         |                |      |                     |           |       |          |

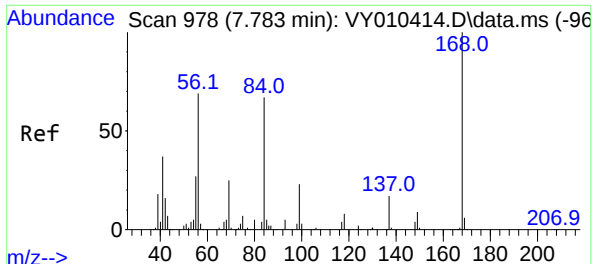
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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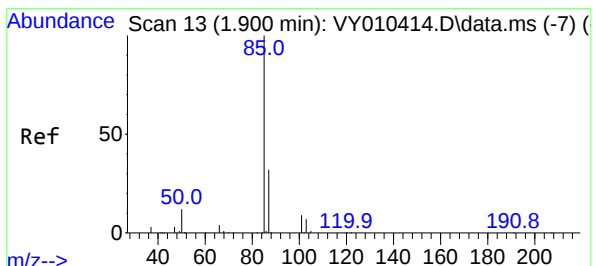
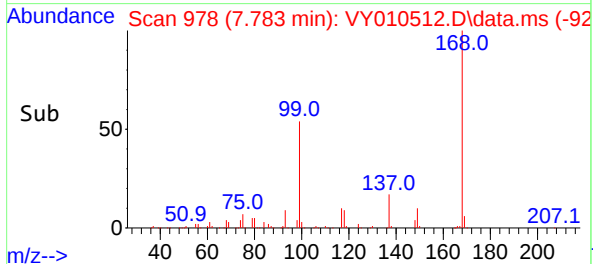
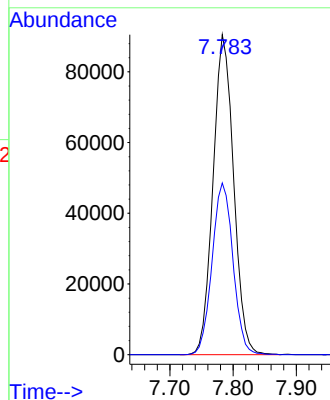
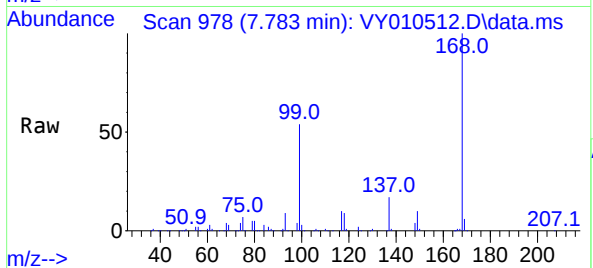




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

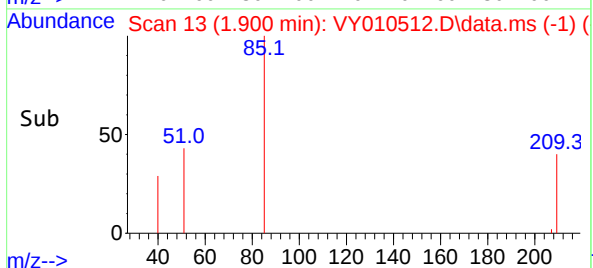
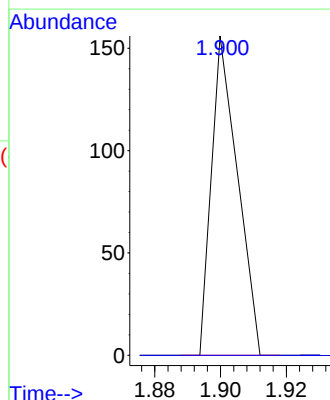
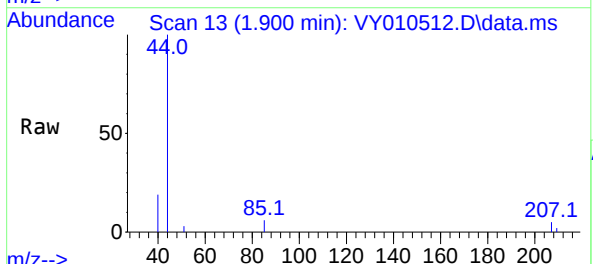
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

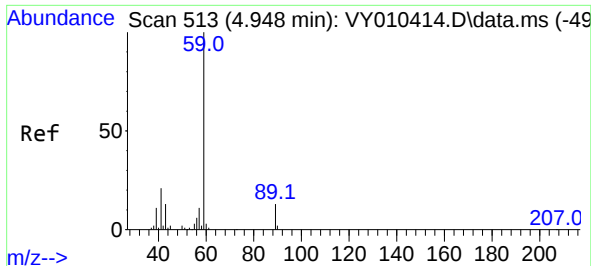
Tgt Ion:168 Resp: 204100  
Ion Ratio Lower Upper  
168 100  
99 53.7 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 85 Resp: 86  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#

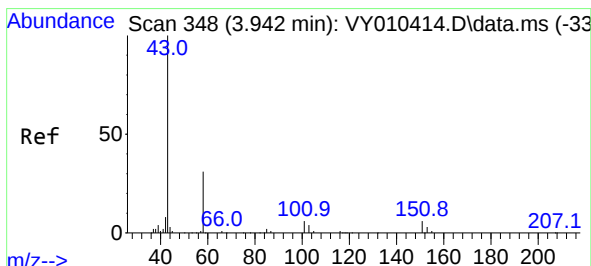
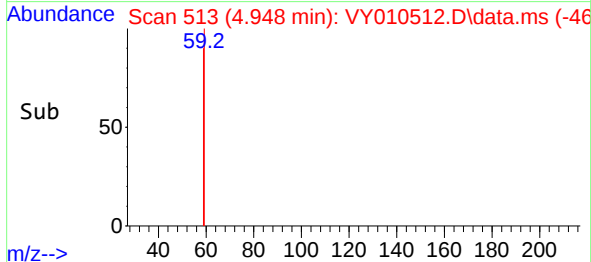
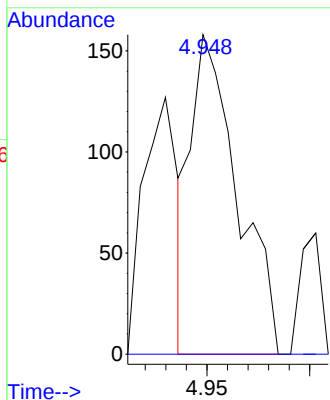
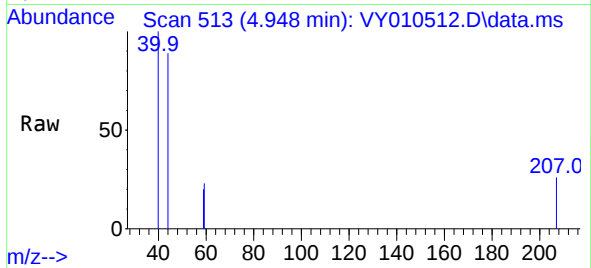




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.948 min Scan# 513  
Delta R.T. 0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

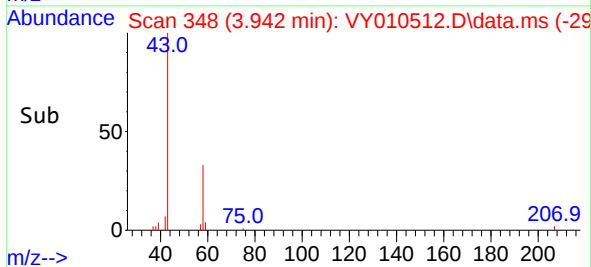
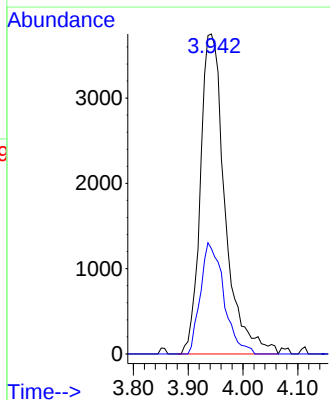
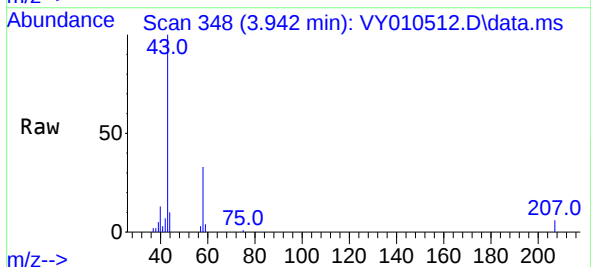
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

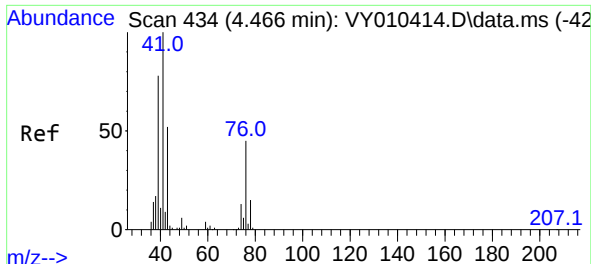
Tgt Ion: 59 Resp: 249  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#



#16  
Acetone  
Concen: 24.740 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. 0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 43 Resp: 11671  
Ion Ratio Lower Upper  
43 100  
58 32.9 22.0 33.0

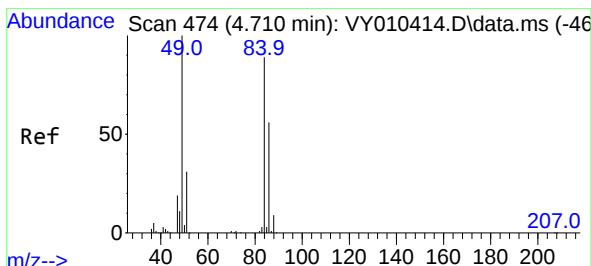
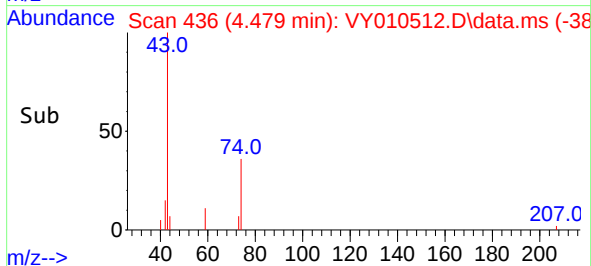
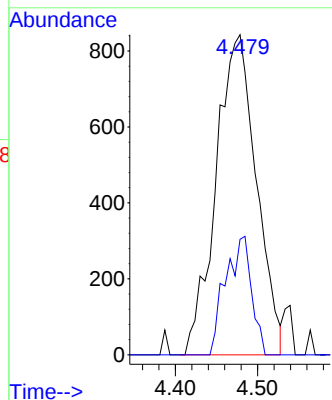
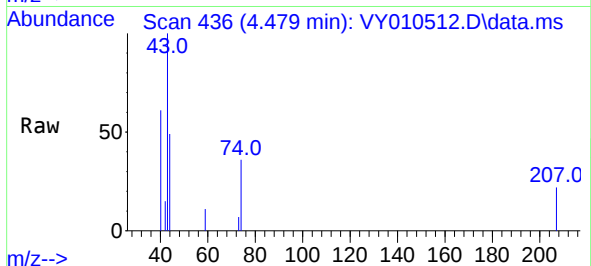




#18  
Methyl Acetate  
Concen: 1.985 ug/l  
RT: 4.479 min Scan# 41  
Delta R.T. 0.013 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

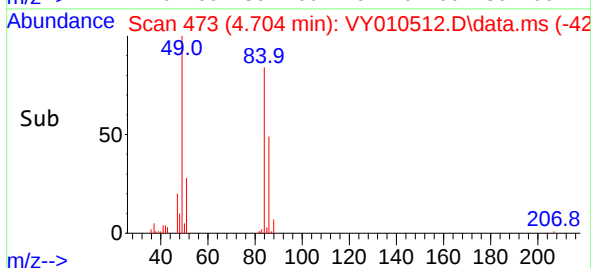
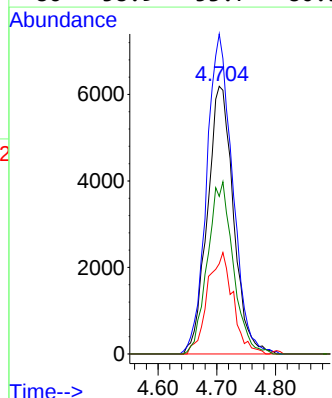
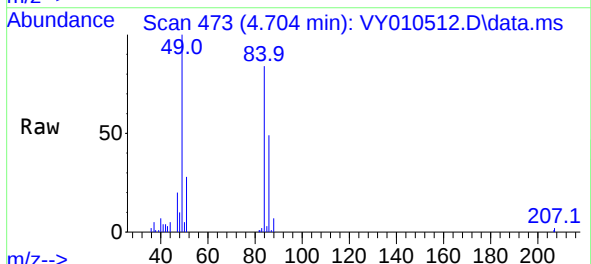
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

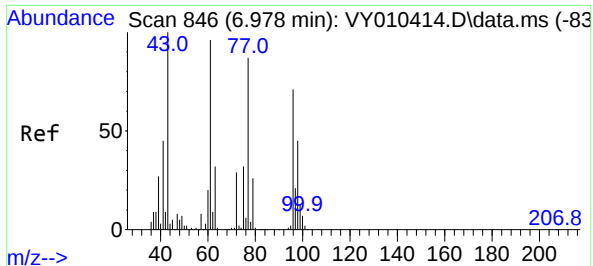
Tgt Ion: 43 Resp: 2881  
Ion Ratio Lower Upper  
43 100  
74 23.7 16.6 24.8



#20  
Methylene Chloride  
Concen: 1.722 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.006 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 84 Resp: 19086  
Ion Ratio Lower Upper  
84 100  
49 119.6 114.4 171.6  
51 33.7 35.3 52.9#  
86 58.9 53.7 80.5





#25

2-Butanone

Concen: 1.339 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY010512.D

Acq: 15 Sep 2022 15:39

Instrument :

MSVOA\_D

ClientSampleId :

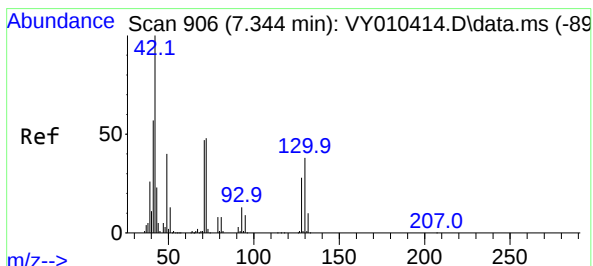
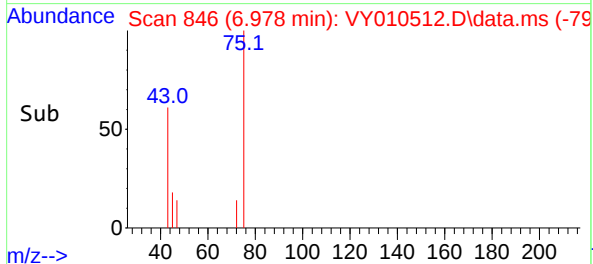
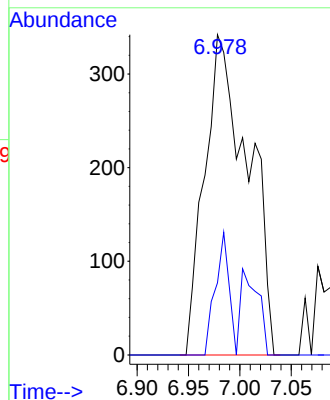
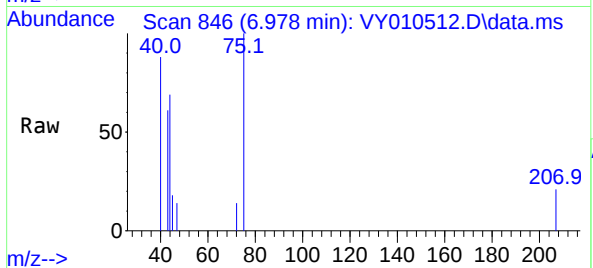
WC-2

Tgt Ion: 43 Resp: 1004

Ion Ratio Lower Upper

43 100

72 22.5 17.7 26.5



#29

Tetrahydrofuran

Concen: 3.490 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.000 min

Lab File: VY010512.D

Acq: 15 Sep 2022 15:39

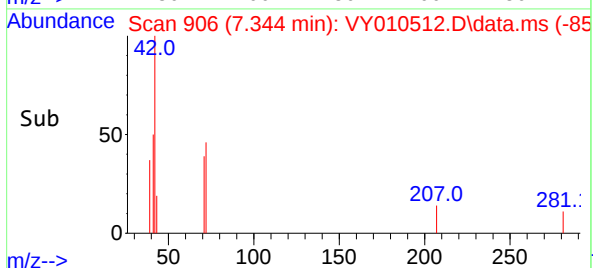
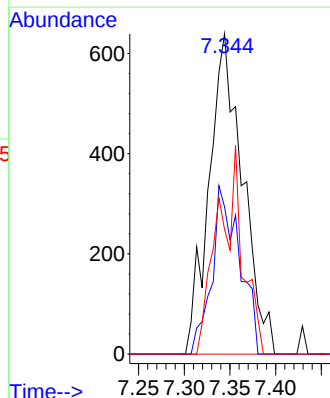
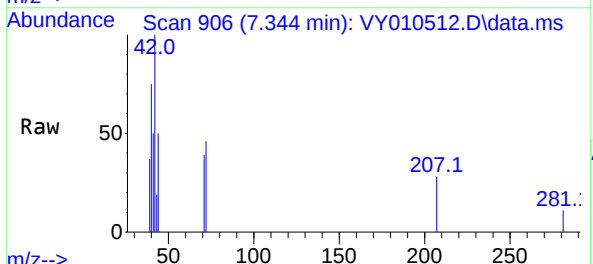
Tgt Ion: 42 Resp: 1633

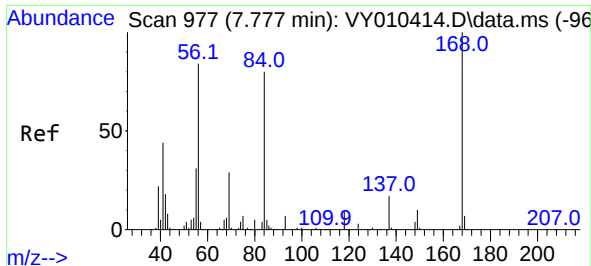
Ion Ratio Lower Upper

42 100

72 43.2 30.3 45.5

71 26.9 29.0 43.4#

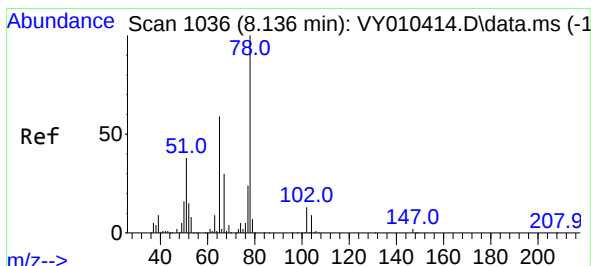
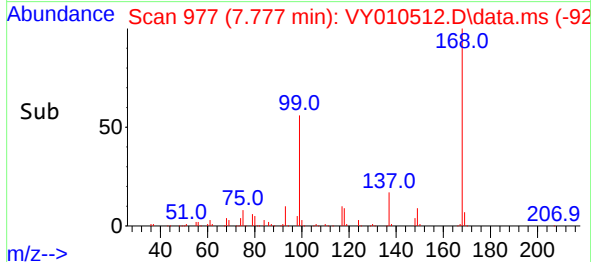
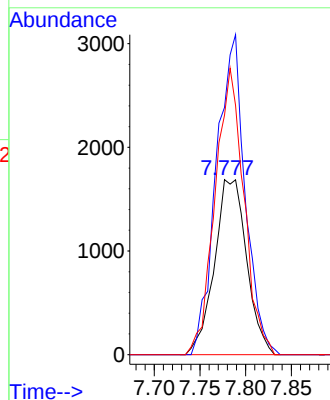
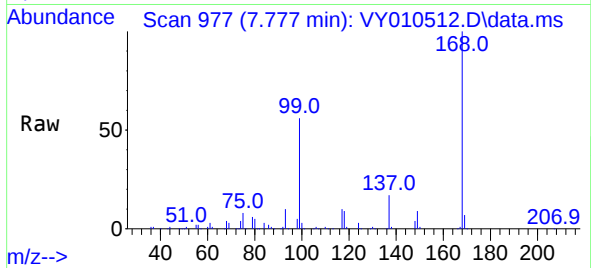




#31  
Cyclohexane  
Concen: 1.194 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

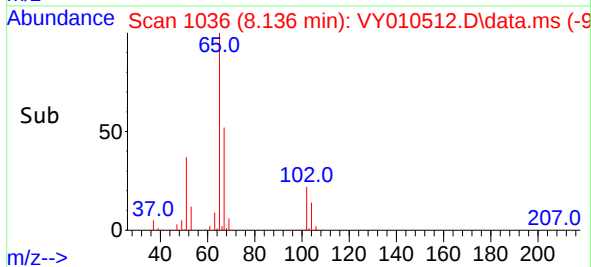
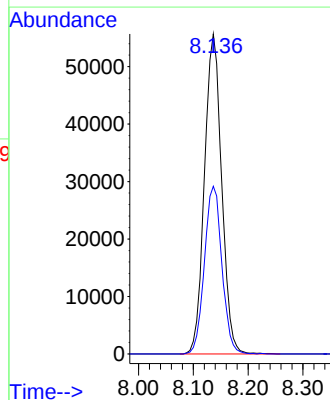
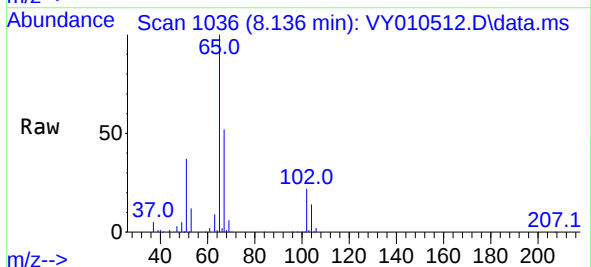
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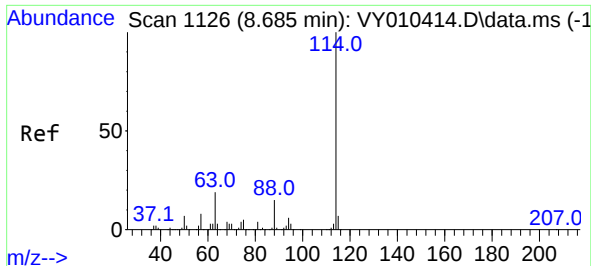
Tgt Ion: 56 Resp: 4145  
Ion Ratio Lower Upper  
56 100  
69 141.3 26.7 40.1#  
84 136.9 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 58.943 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.001 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 65 Resp: 121165  
Ion Ratio Lower Upper  
65 100  
67 53.2 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: VY010512.D

Acq: 15 Sep 2022 15:39

Instrument :

MSVOA\_D

ClientSampleId :

WC-2

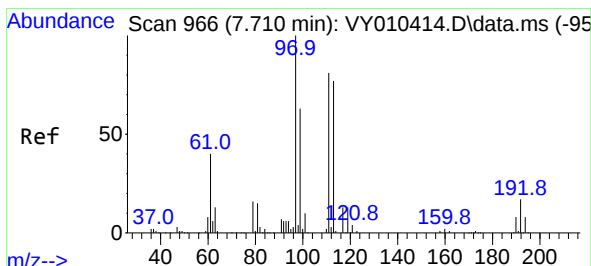
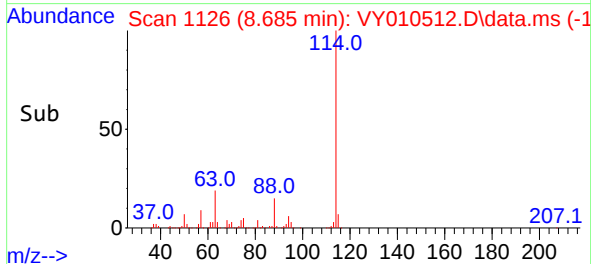
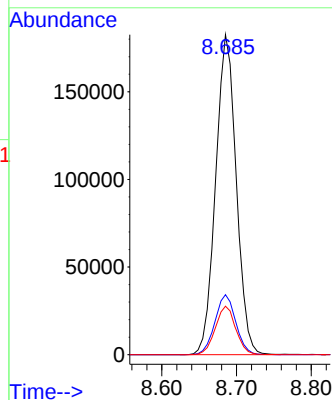
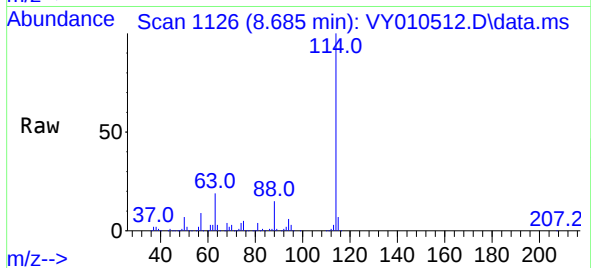
Tgt Ion:114 Resp: 349402

Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.2

88 15.2 0.0 31.8



#35

Dibromofluoromethane

Concen: 43.819 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY010512.D

Acq: 15 Sep 2022 15:39

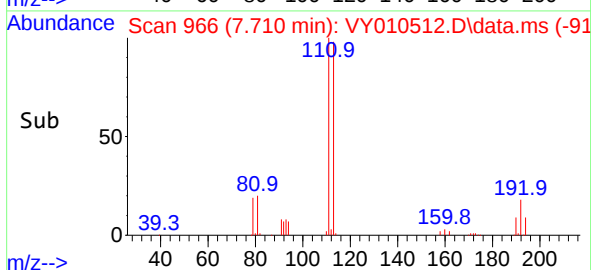
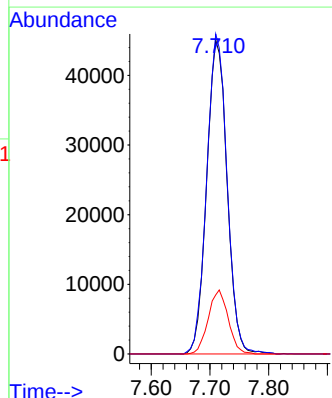
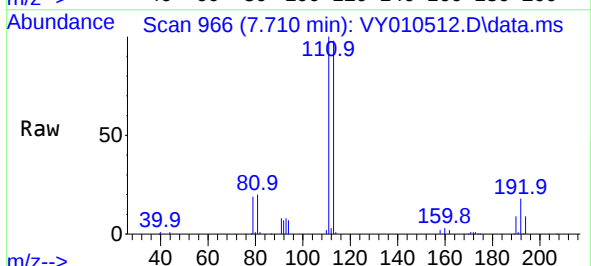
Tgt Ion:113 Resp: 108735

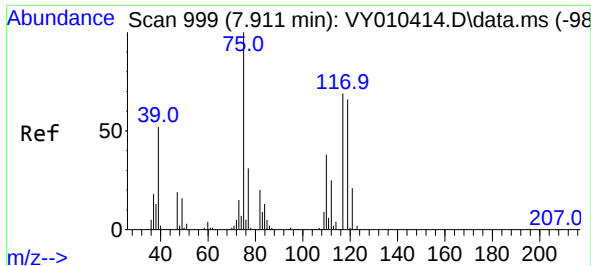
Ion Ratio Lower Upper

113 100

111 101.8 82.6 124.0

192 19.9 17.6 26.4

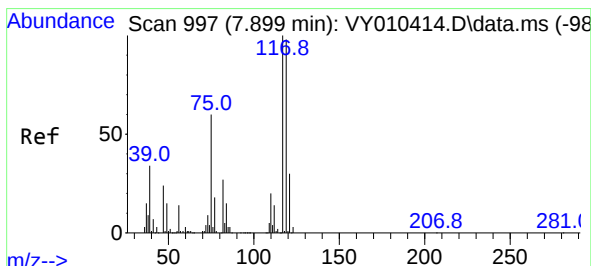
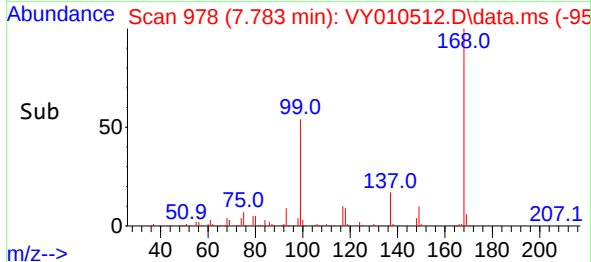
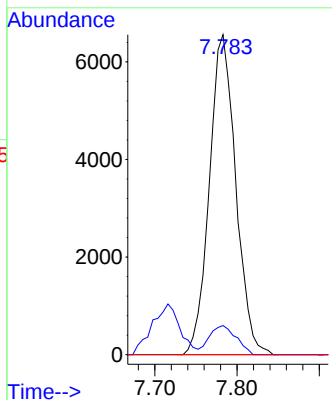
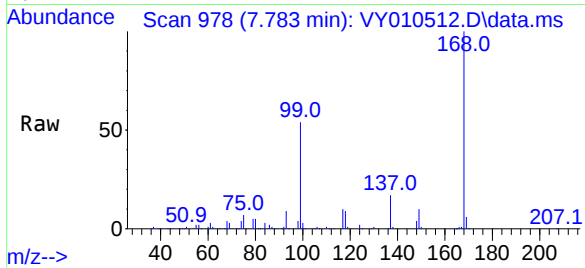




#36  
1,1-Dichloropropene  
Concen: 4.308 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

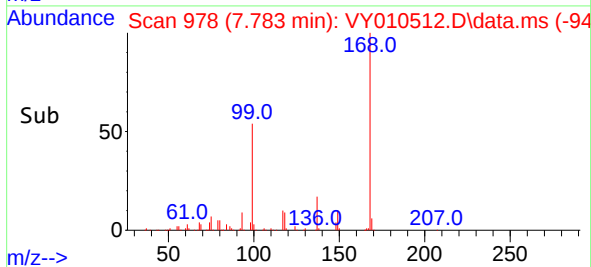
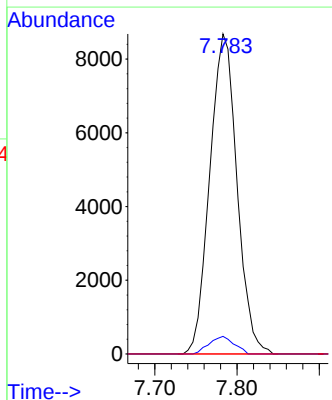
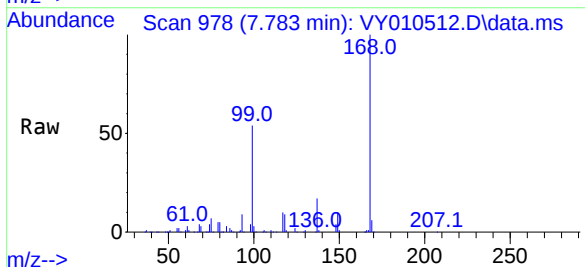
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

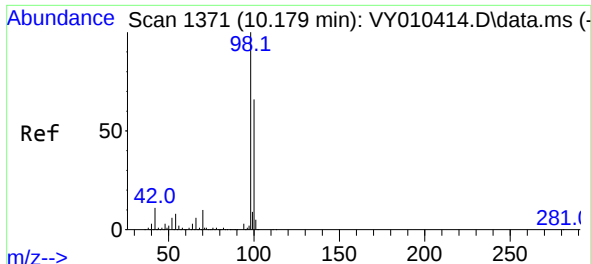
Tgt Ion: 75 Resp: 14635  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.1 51.2#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.284 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.116 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 117 Resp: 19969  
Ion Ratio Lower Upper  
117 100  
119 5.5 77.9 116.9#  
121 0.0 24.8 37.2#

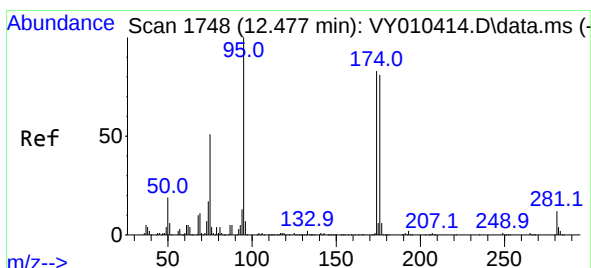
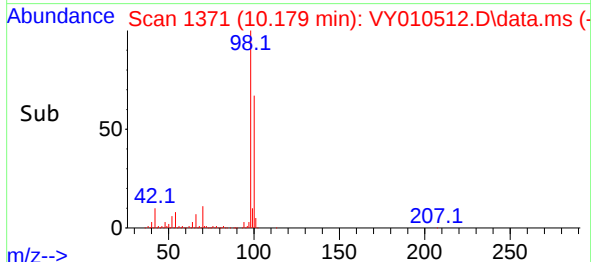
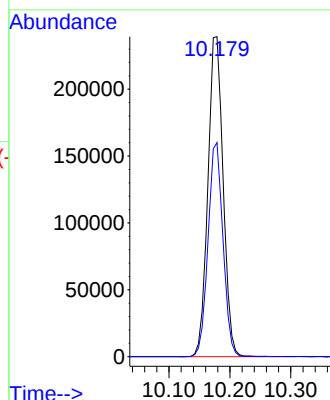
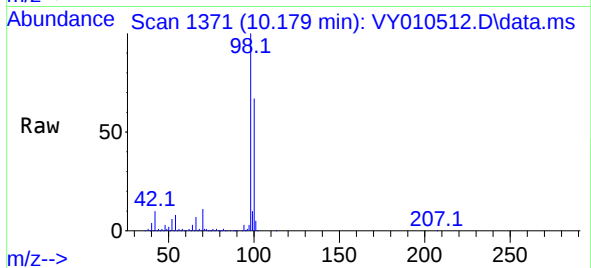




#50  
Toluene-d8  
Concen: 51.779 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

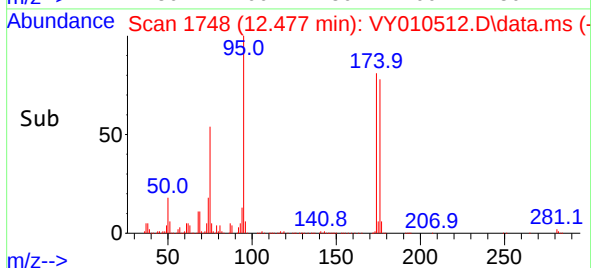
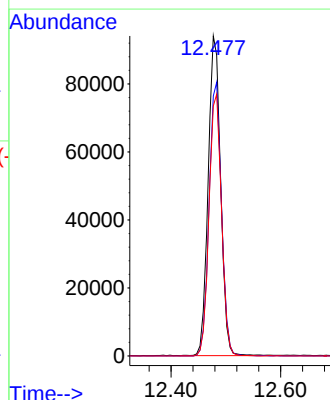
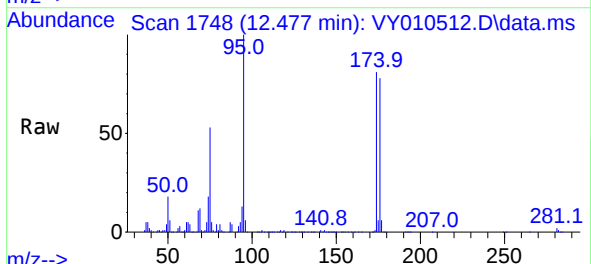
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

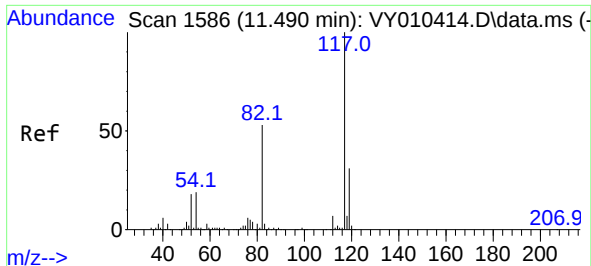
Tgt Ion: 98 Resp: 416423  
Ion Ratio Lower Upper  
98 100  
100 65.5 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 45.824 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 95 Resp: 147715  
Ion Ratio Lower Upper  
95 100  
174 85.1 0.0 177.0  
176 82.2 0.0 175.8

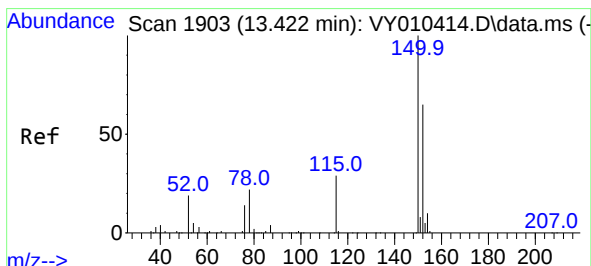
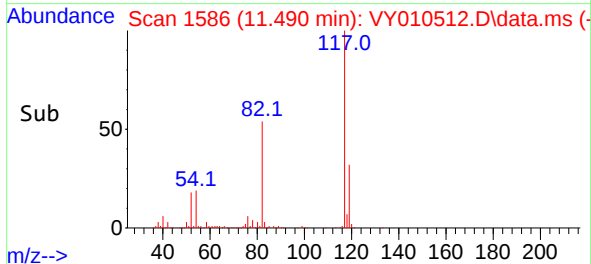
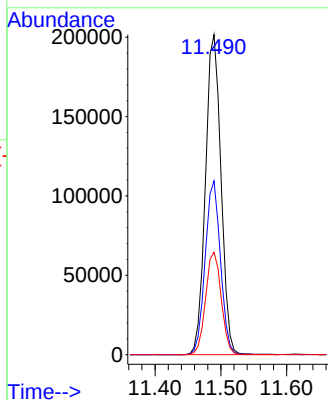
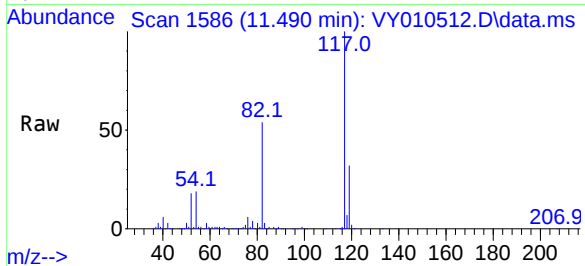




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

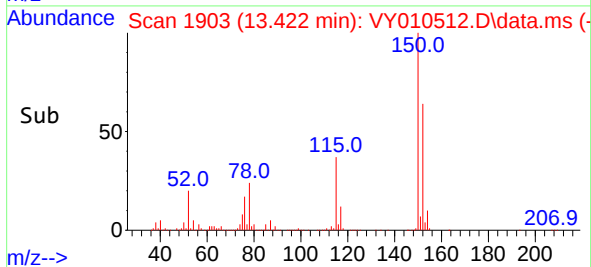
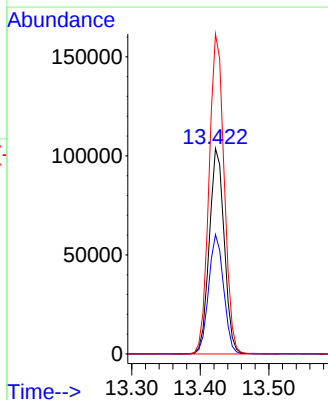
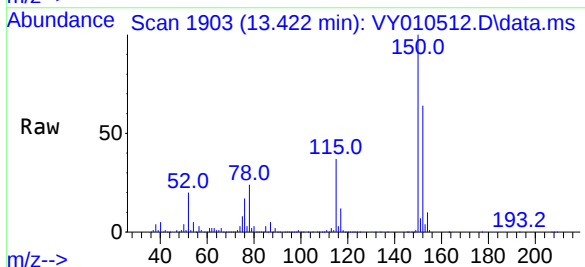
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

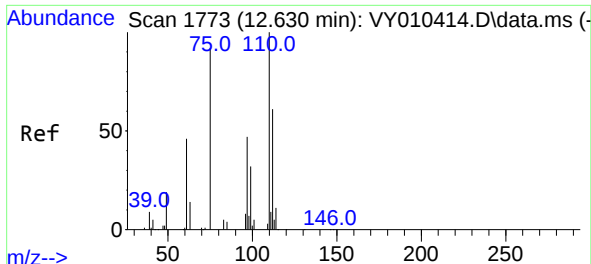
Tgt Ion:117 Resp: 331925  
Ion Ratio Lower Upper  
117 100  
82 54.3 43.0 64.4  
119 32.0 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion:152 Resp: 157364  
Ion Ratio Lower Upper  
152 100  
115 58.5 28.2 84.7  
150 157.4 0.0 347.6

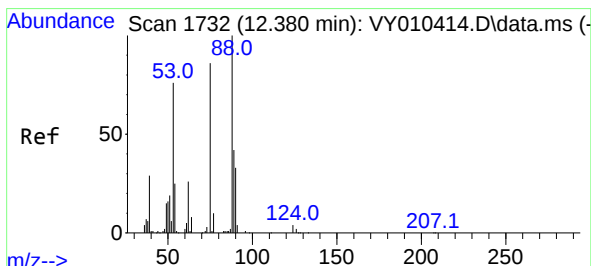
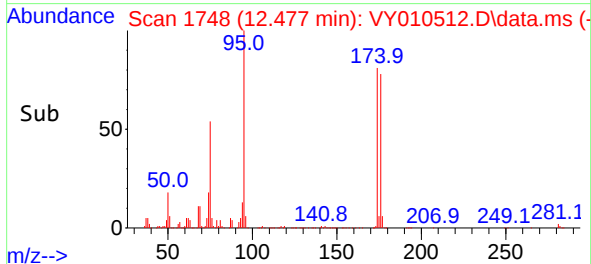
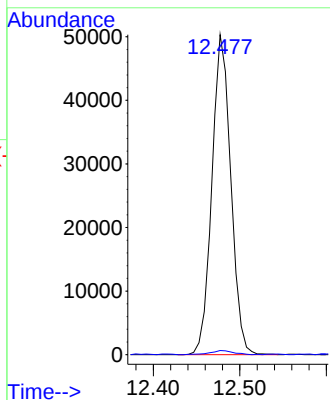
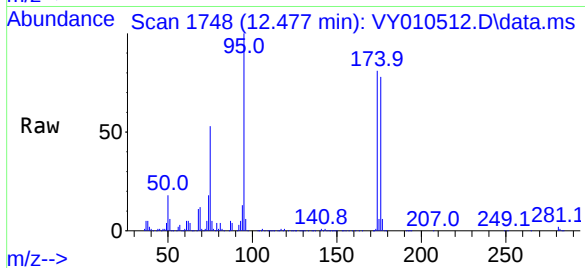




#76  
1,2,3-Trichloropropane  
Concen: 43.889 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-2

Tgt Ion: 75 Resp: 76225  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.449 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY010512.D  
Acq: 15 Sep 2022 15:39

Tgt Ion: 75 Resp: 76225  
Ion Ratio Lower Upper  
75 100  
53 0.2 85.3 127.9#  
89 0.1 37.0 55.4#

