

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101024\  
 Data File : VL041640.D  
 Acq On : 10 Oct 2024 13:28  
 Operator : SY/MD  
 Sample : P4339-02DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Oct 11 05:40:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091624AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 17 09:12:21 2024  
 Response via : Initial Calibration

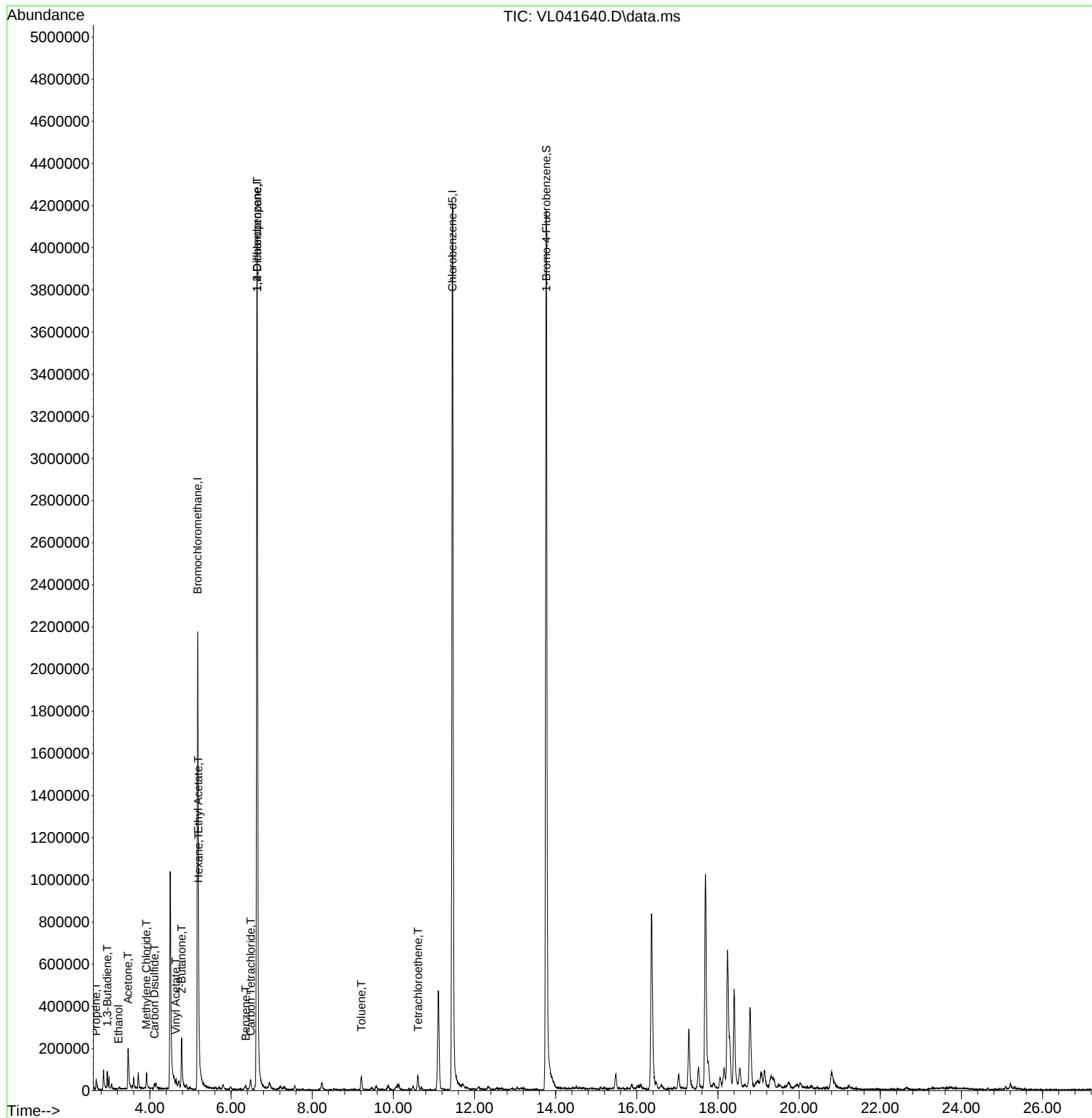
| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Bromochloromethane       | 5.176     | 49    | 1178697  | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.642     | 114   | 3216752  | 10.000   | ppbv       | 0.01     |
| 55) Chlorobenzene-d5        | 11.455    | 117   | 2844115  | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |           |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.767    | 95    | 2107341  | 10.065   | ppbv       | 0.02     |
| Spiked Amount               | 10.000    | Range | 65 - 135 | Recovery | = 100.700% |          |
| Target Compounds            |           |       |          |          |            |          |
|                             |           |       |          |          |            | Qvalue   |
| 9) Propene                  | 2.671     | 41    | 16883    | 0.280    | ppbv       | 99       |
| 13) Ethanol                 | 3.227     | 45    | 1997     | 0.440    | ppbv #     | 37       |
| 15) Acetone                 | 3.462     | 43    | 190606   | 1.288    | ppbv       | 93       |
| 16) 1,3-Butadiene           | 2.951     | 39    | 18978    | 0.264    | ppbv #     | 20       |
| 20) Methylene Chloride      | 3.915     | 84    | 21677    | 0.390    | ppbv       | 93       |
| 23) Vinyl Acetate           | 4.639     | 43    | 7059     | 0.087    | ppbv #     | 40       |
| 25) Ethyl Acetate           | 5.195     | 43    | 21601    | 0.081    | ppbv #     | 81       |
| 26) Hexane                  | 5.198     | 57    | 29654    | 0.268    | ppbv #     | 36       |
| 27) Carbon Disulfide        | 4.112     | 76    | 25320    | 0.215    | ppbv #     | 85       |
| 34) 2-Butanone              | 4.784     | 43    | 302882   | 1.975    | ppbv       | 97       |
| 35) Carbon Tetrachloride    | 6.484     | 117   | 25492    | 0.162    | ppbv       | 88       |
| 36) Benzene                 | 6.359     | 78    | 10068    | 0.045    | ppbv #     | 85       |
| 39) 1,2-Dichloropropane     | 6.642     | 63    | 799665   | 8.799    | ppbv #     | 24       |
| 52) Tetrachloroethene       | 10.606    | 164   | 14153    | 0.175    | ppbv #     | 85       |
| 53) Toluene                 | 9.214     | 91    | 46980    | 0.198    | ppbv       | 100      |
| -----                       |           |       |          |          |            |          |

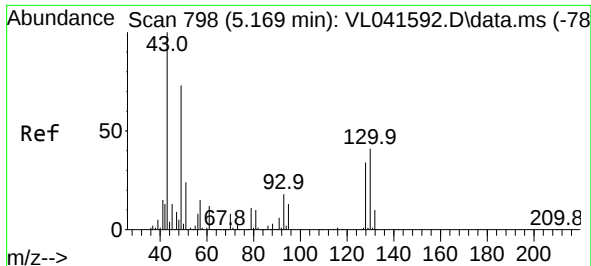
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101024\  
Data File : VL041640.D  
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Misc : 400mL/MSVOA\_L  
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Instrument :  
MSVOA\_L  
ClientSampleId :

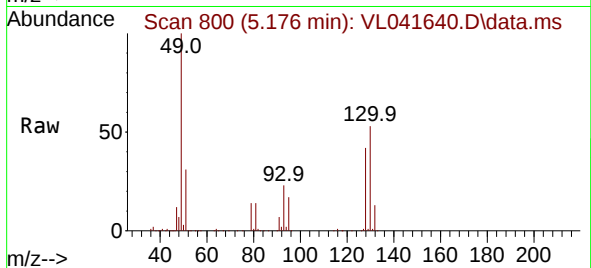
Quant Time: Oct 11 05:40:03 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091624AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 17 09:12:21 2024  
Response via : Initial Calibration



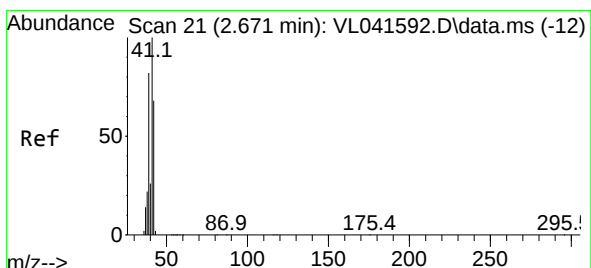
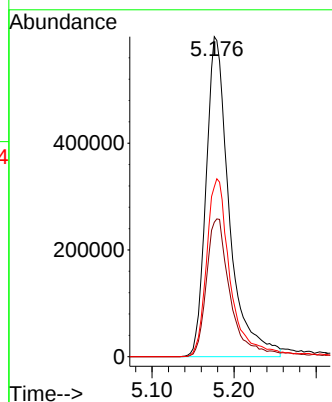
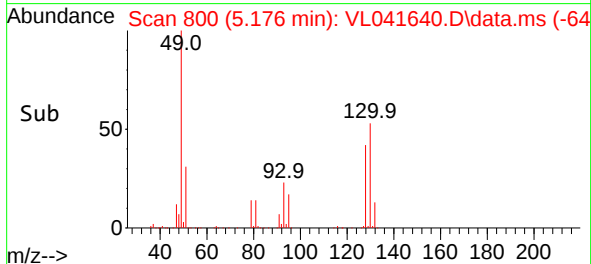


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.176 min Scan# 80  
Delta R.T. 0.007 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

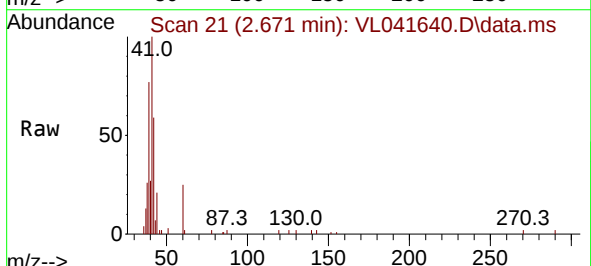
Instrument :  
MSVOA\_L  
ClientSampleId :



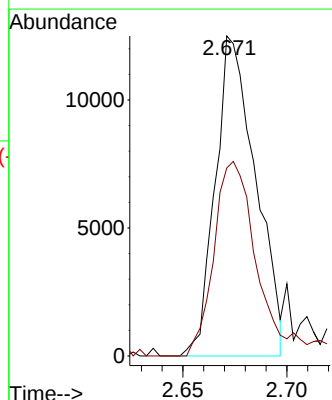
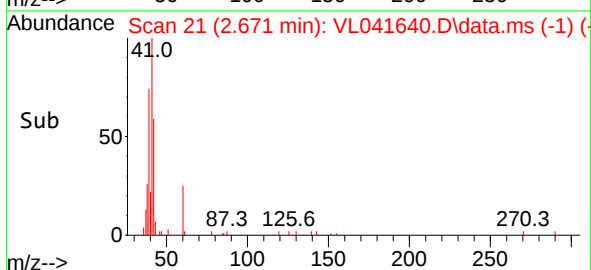
Tgt Ion: 49 Resp: 1178697  
Ion Ratio Lower Upper  
49 100  
128 46.2 23.8 71.5  
130 59.2 30.4 91.3

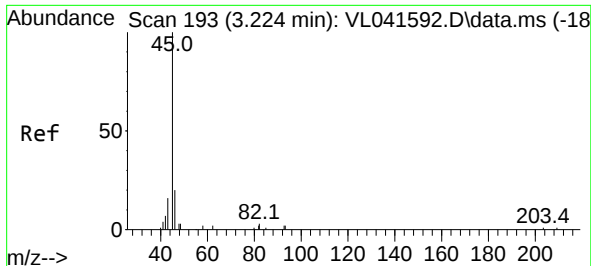


#9  
Propene  
Concen: 0.280 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28



Tgt Ion: 41 Resp: 16883  
Ion Ratio Lower Upper  
41 100  
42 68.5 55.2 82.8

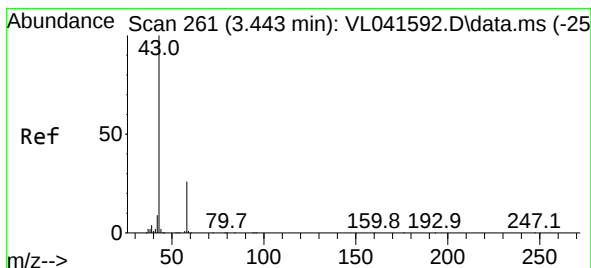
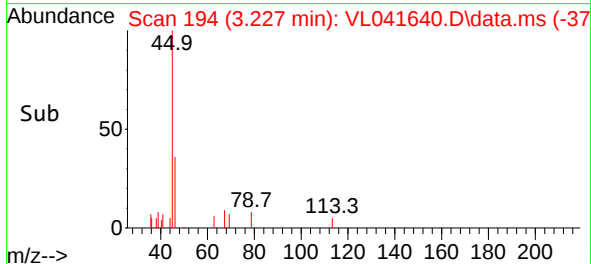
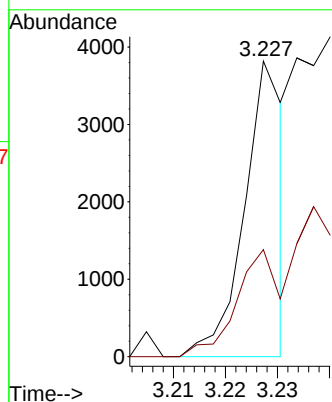
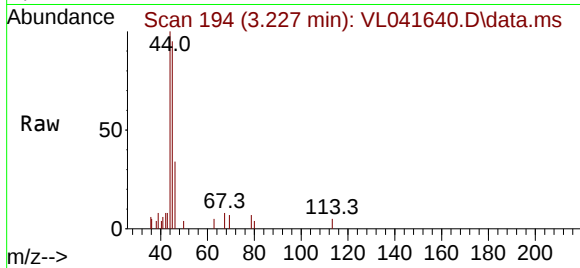




#13  
Ethanol  
Concen: 0.440 ppbv  
RT: 3.227 min Scan# 19  
Delta R.T. 0.003 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

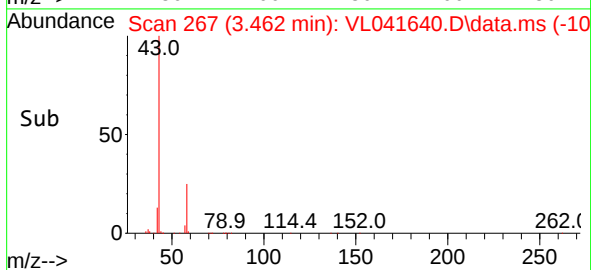
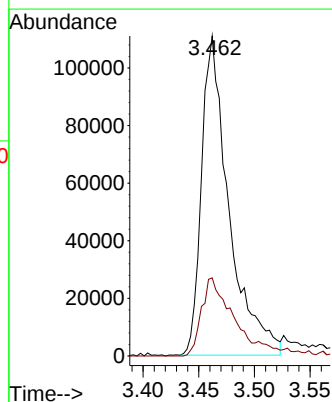
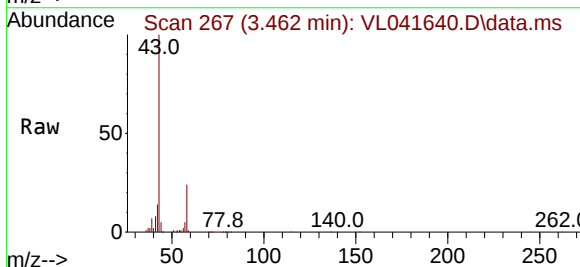
Instrument :  
MSVOA\_L  
ClientSampleId :

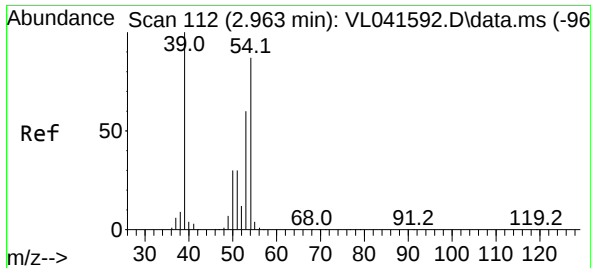
Tgt Ion: 45 Resp: 1997  
Ion Ratio Lower Upper  
45 100  
46 0.0 15.2 60.8#



#15  
Acetone  
Concen: 1.288 ppbv  
RT: 3.462 min Scan# 267  
Delta R.T. 0.019 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

Tgt Ion: 43 Resp: 190606  
Ion Ratio Lower Upper  
43 100  
58 30.6 21.5 32.3

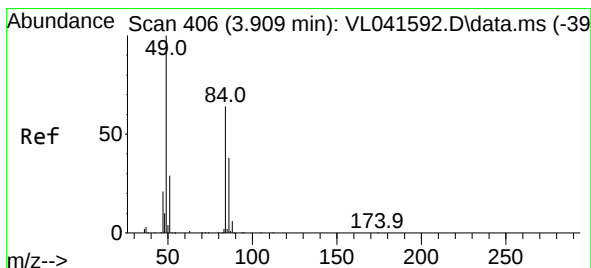
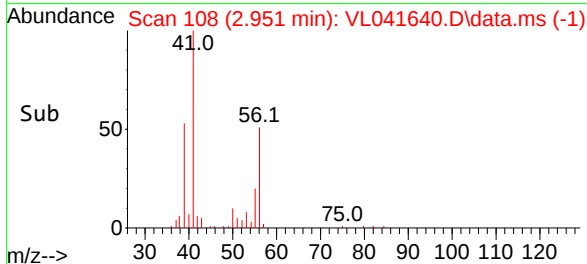
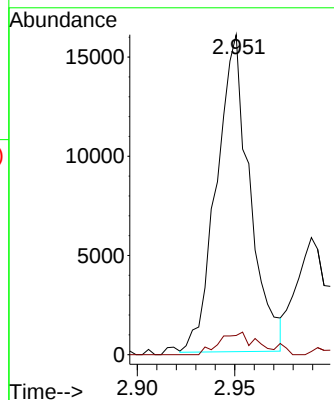
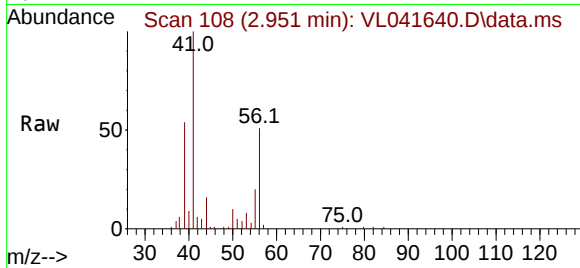




#16  
1,3-Butadiene  
Concen: 0.264 ppbv  
RT: 2.951 min Scan# 108  
Delta R.T. -0.013 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

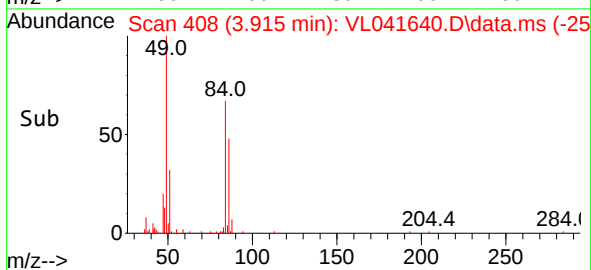
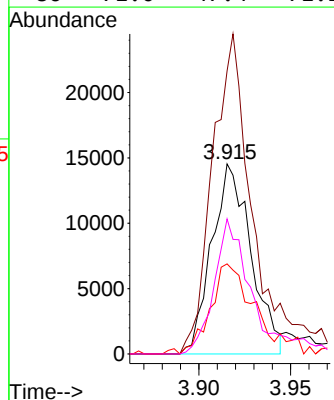
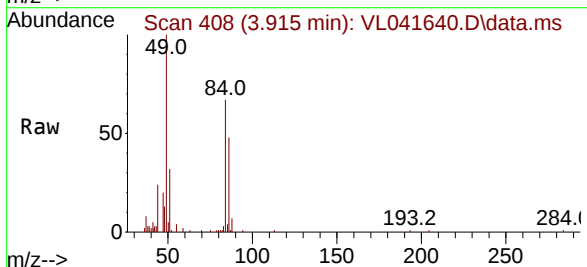
Instrument :  
MSVOA\_L  
ClientSampleId :

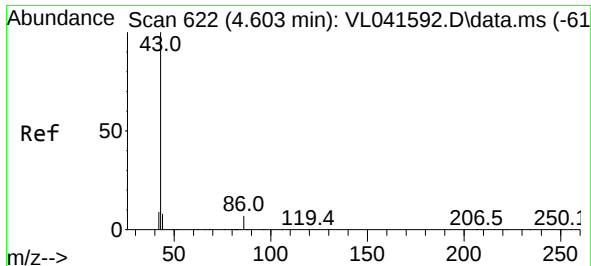
Tgt Ion: 39 Resp: 18978  
Ion Ratio Lower Upper  
39 100  
54 8.6 62.9 94.3#



#20  
Methylene Chloride  
Concen: 0.390 ppbv  
RT: 3.915 min Scan# 408  
Delta R.T. 0.007 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

Tgt Ion: 84 Resp: 21677  
Ion Ratio Lower Upper  
84 100  
49 148.9 124.3 186.5  
51 47.4 36.3 54.5  
86 71.0 47.4 71.2

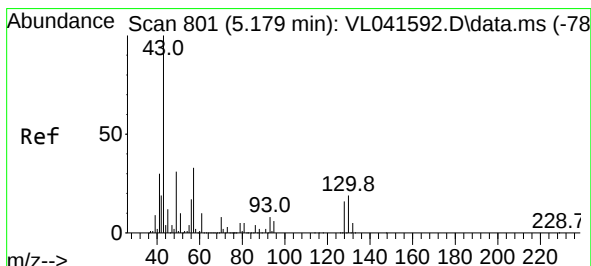
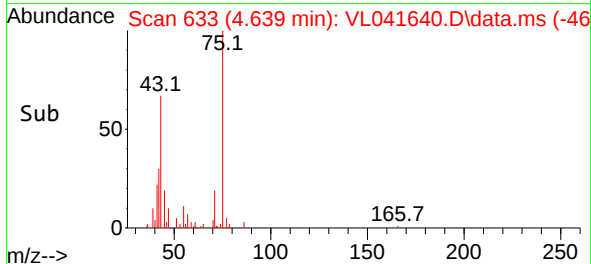
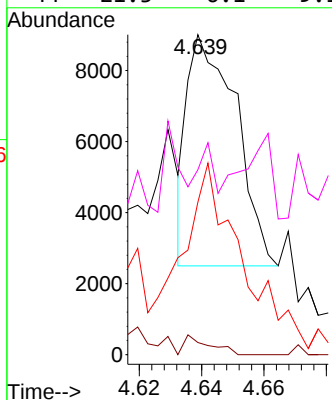
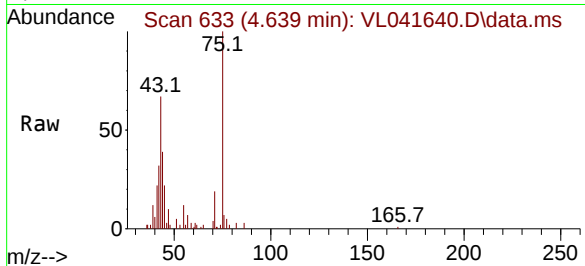




#23  
 Vinyl Acetate  
 Concen: 0.087 ppbv  
 RT: 4.639 min Scan# 61  
 Delta R.T. 0.036 min  
 Lab File: VL041640.D  
 Acq: 10 Oct 2024 13:28

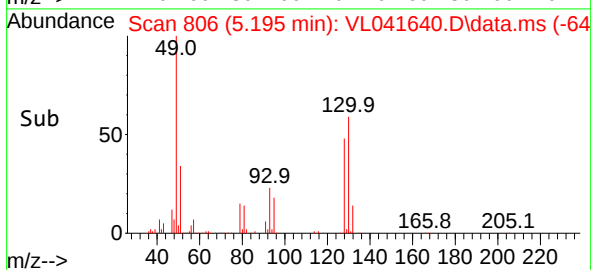
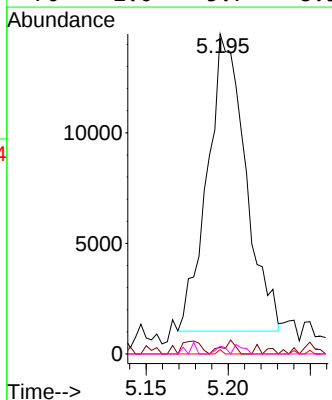
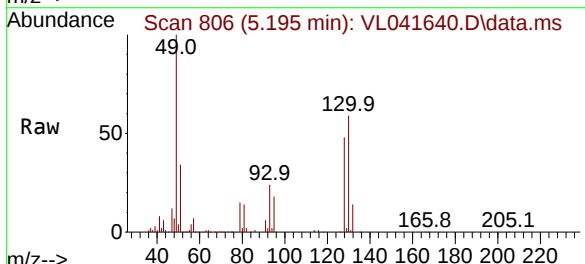
Instrument :  
 MSVOA\_L  
 ClientSampleId :

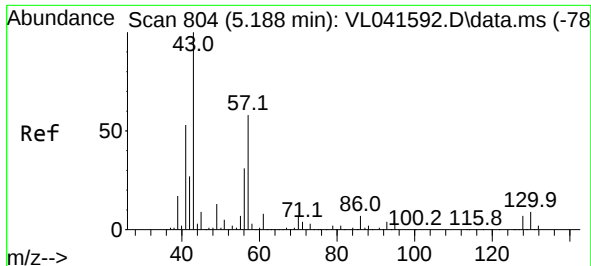
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7059  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 5.2   | 4.9   | 7.3   |
| 42       | 51.0  | 8.0   | 12.0# |
| 44       | 21.3  | 6.1   | 9.1#  |



#25  
 Ethyl Acetate  
 Concen: 0.081 ppbv  
 RT: 5.195 min Scan# 806  
 Delta R.T. 0.016 min  
 Lab File: VL041640.D  
 Acq: 10 Oct 2024 13:28

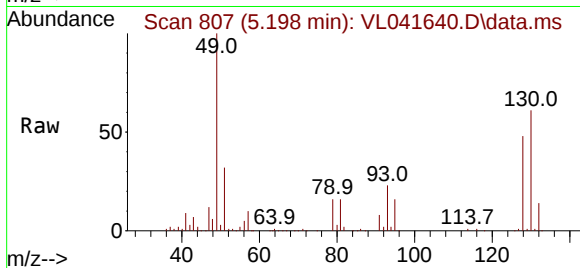
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|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 21601 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 4.7   | 8.2   | 12.2# |
| 61       | 0.2   | 8.0   | 12.0# |
| 70       | 2.0   | 5.7   | 8.5#  |



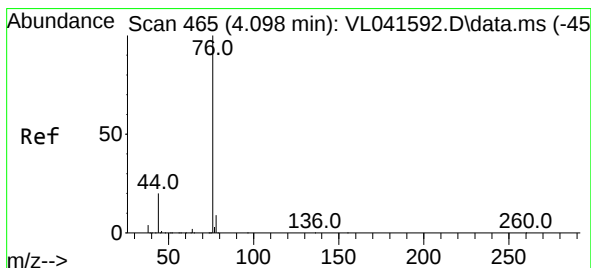
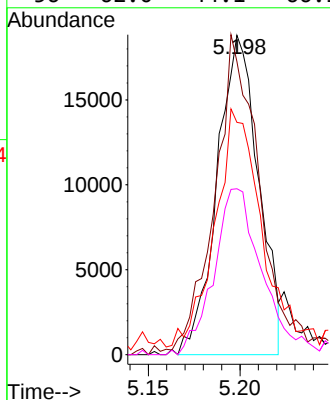
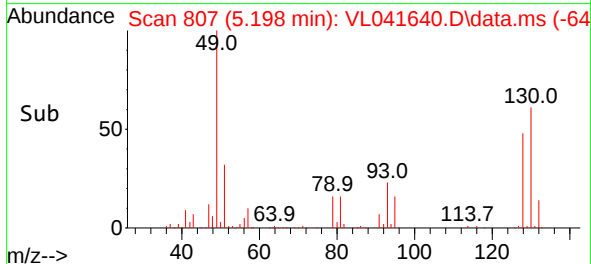


#26  
Hexane  
Concen: 0.268 ppbv  
RT: 5.198 min Scan# 804  
Delta R.T. 0.010 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

Instrument :  
MSVOA\_L  
ClientSampleId :

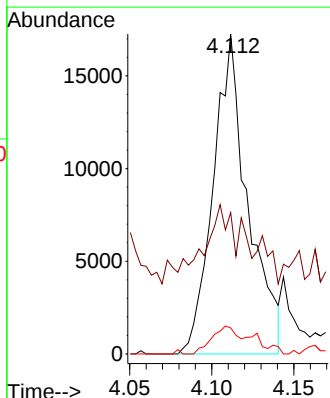
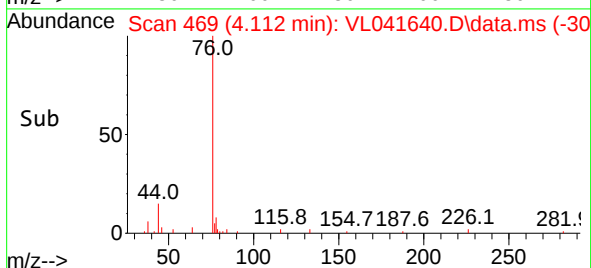
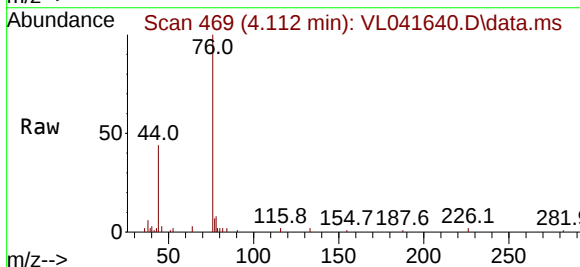


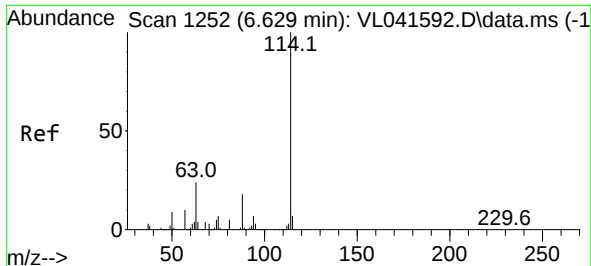
Tgt Ion: 57 Resp: 29654  
Ion Ratio Lower Upper  
57 100  
41 114.2 75.7 113.5#  
43 86.0 198.5 297.7#  
56 62.0 44.1 66.1



#27  
Carbon Disulfide  
Concen: 0.215 ppbv  
RT: 4.112 min Scan# 469  
Delta R.T. 0.013 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

Tgt Ion: 76 Resp: 25320  
Ion Ratio Lower Upper  
76 100  
44 29.8 15.8 23.8#  
78 10.1 7.5 11.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL041640.D

Acq: 10 Oct 2024 13:28

Instrument :

MSVOA\_L

ClientSampleId :

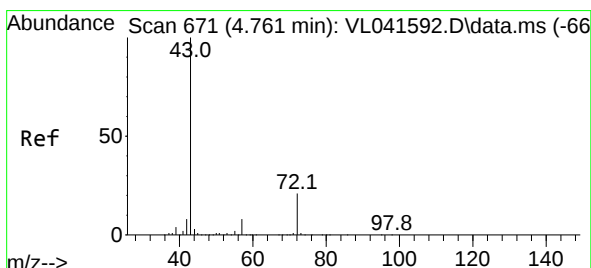
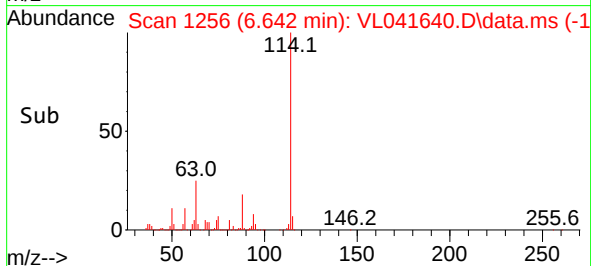
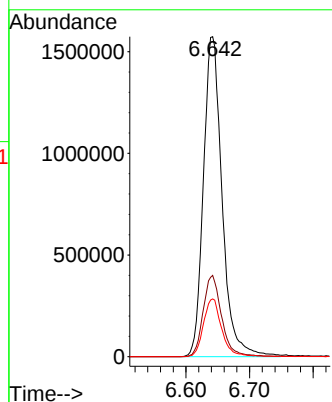
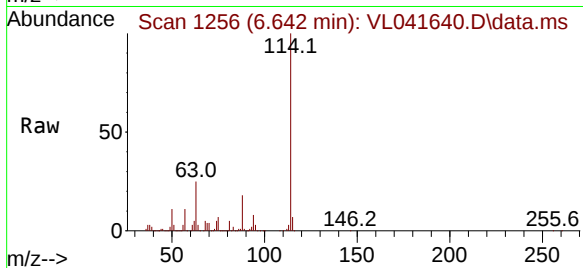
Tgt Ion:114 Resp: 3216752

Ion Ratio Lower Upper

114 100

63 25.3 20.2 30.2

88 17.8 14.2 21.4



#34

2-Butanone

Concen: 1.975 ppbv

RT: 4.784 min Scan# 678

Delta R.T. 0.023 min

Lab File: VL041640.D

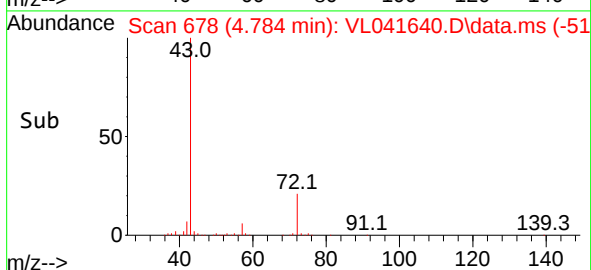
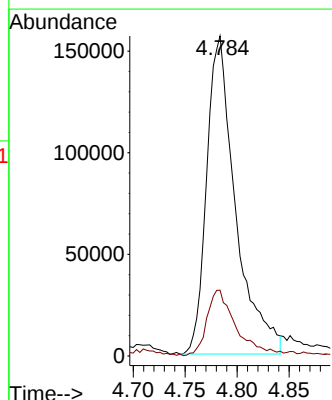
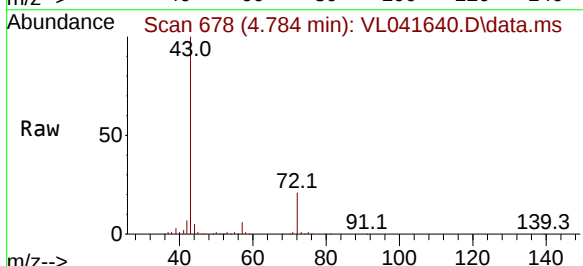
Acq: 10 Oct 2024 13:28

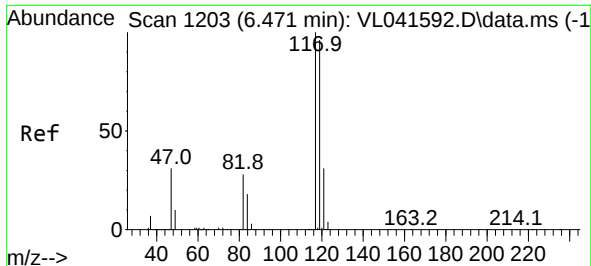
Tgt Ion: 43 Resp: 302882

Ion Ratio Lower Upper

43 100

72 22.5 16.8 25.2

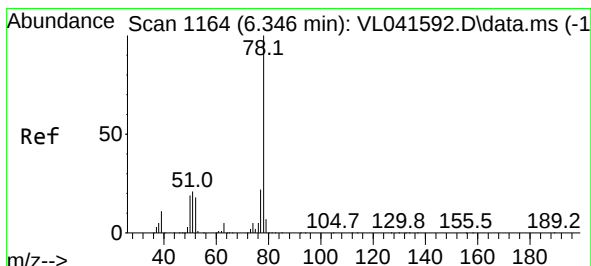
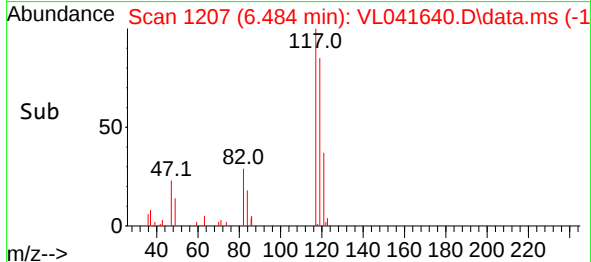
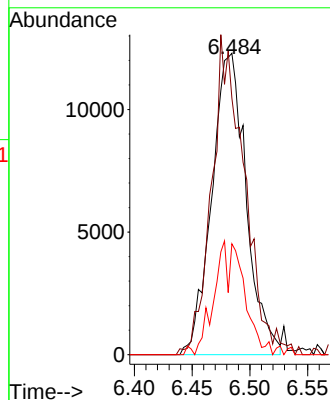
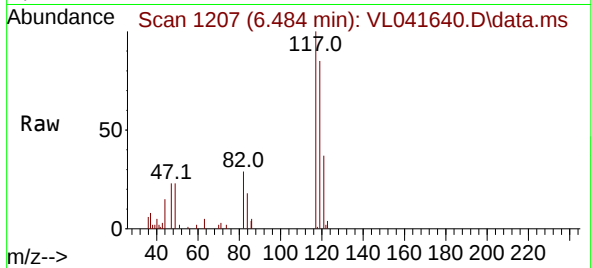




#35  
Carbon Tetrachloride  
Concen: 0.162 ppbv  
RT: 6.484 min Scan# 1167  
Delta R.T. 0.013 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

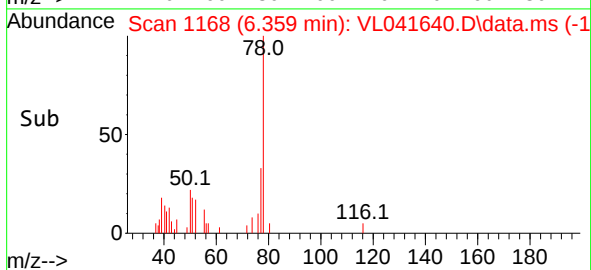
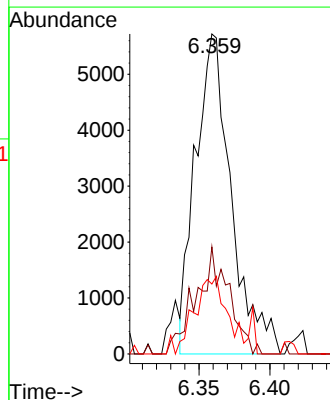
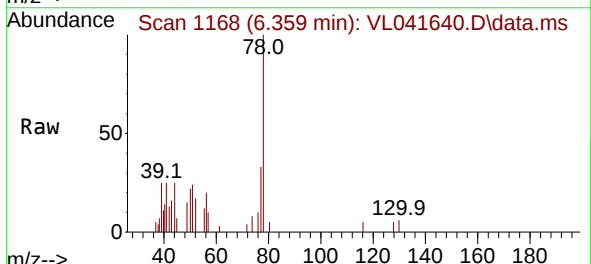
Instrument :  
MSVOA\_L  
ClientSampleId :

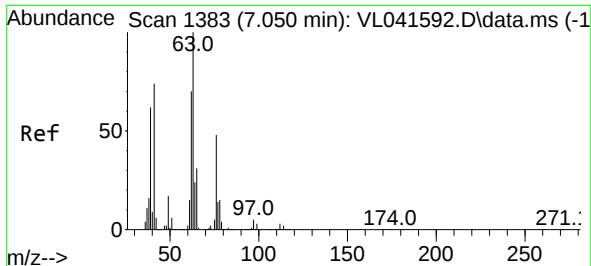
Tgt Ion:117 Resp: 25492  
Ion Ratio Lower Upper  
117 100  
119 83.2 76.8 115.2  
121 36.8 25.0 37.6



#36  
Benzene  
Concen: 0.045 ppbv  
RT: 6.359 min Scan# 1168  
Delta R.T. 0.013 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

Tgt Ion: 78 Resp: 10068  
Ion Ratio Lower Upper  
78 100  
77 33.5 17.8 26.6#  
50 21.9 15.4 23.0





#39

1,2-Dichloropropane

Concen: 8.799 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.408 min

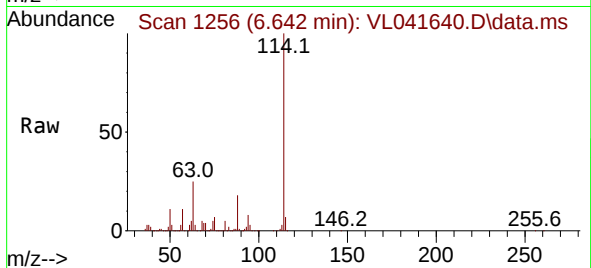
Lab File: VL041640.D

Acq: 10 Oct 2024 13:28

Instrument :

MSVOA\_L

ClientSampleId :



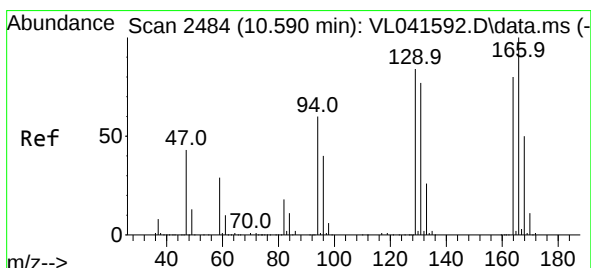
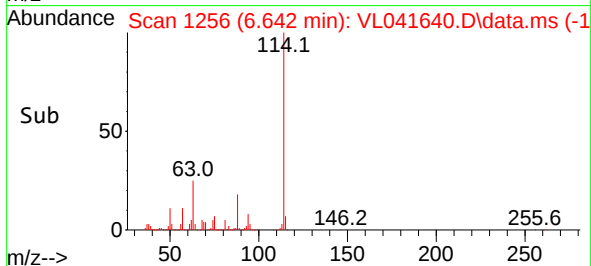
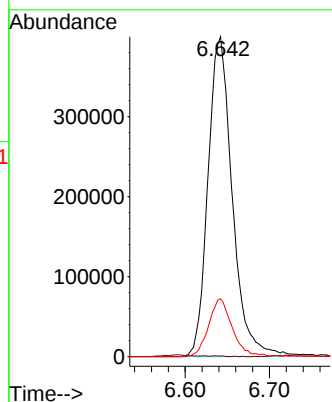
Tgt Ion: 63 Resp: 799665

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 18.1 56.2 84.2#



#52

Tetrachloroethene

Concen: 0.175 ppbv

RT: 10.606 min Scan# 2489

Delta R.T. 0.016 min

Lab File: VL041640.D

Acq: 10 Oct 2024 13:28

Tgt Ion:164 Resp: 14153

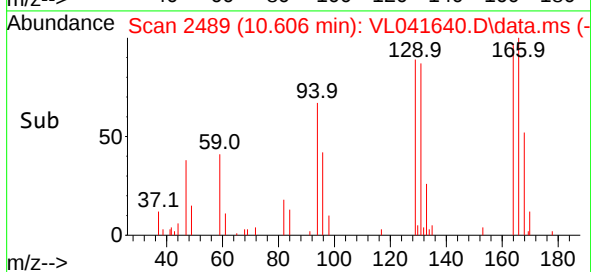
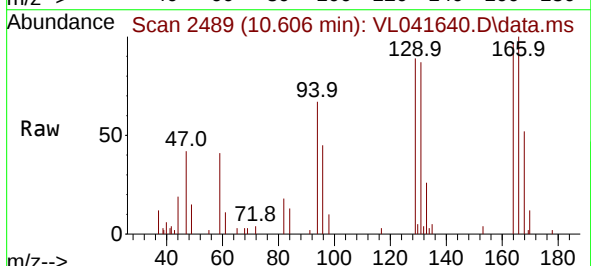
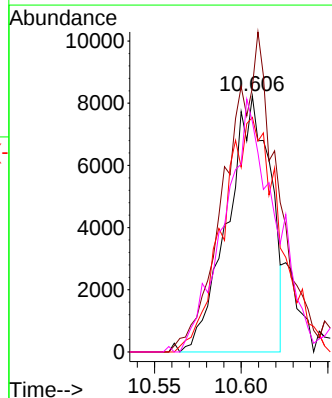
Ion Ratio Lower Upper

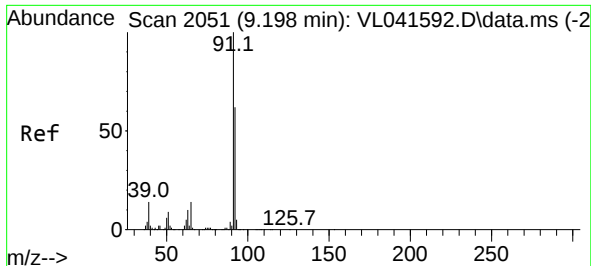
164 100

166 98.0 99.4 149.2#

129 89.4 83.5 125.3

131 89.9 76.5 114.7

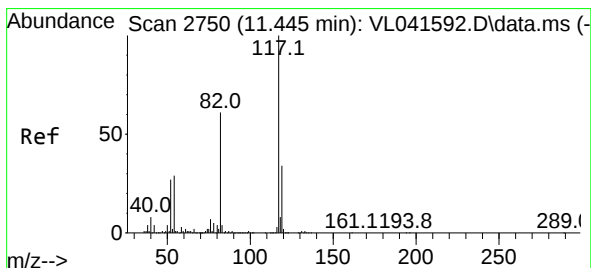
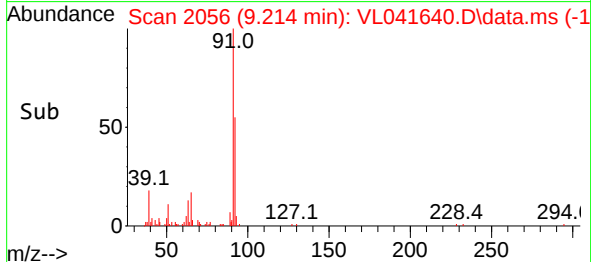
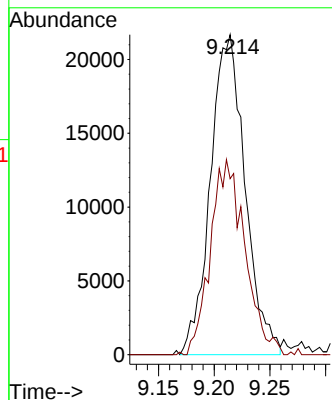
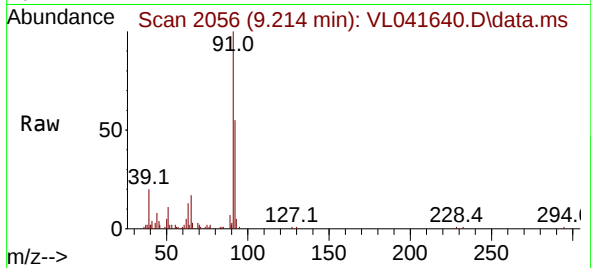




#53  
Toluene  
Concen: 0.198 ppbv  
RT: 9.214 min Scan# 2051  
Delta R.T. 0.016 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

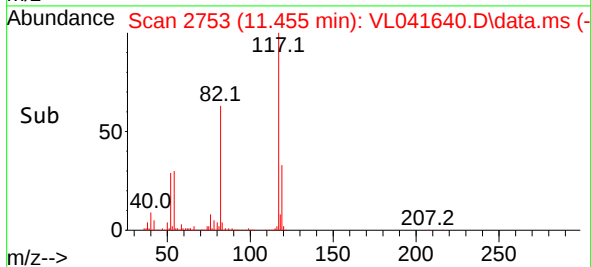
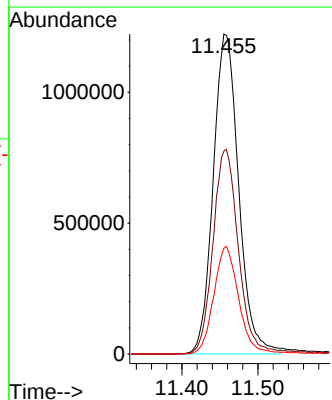
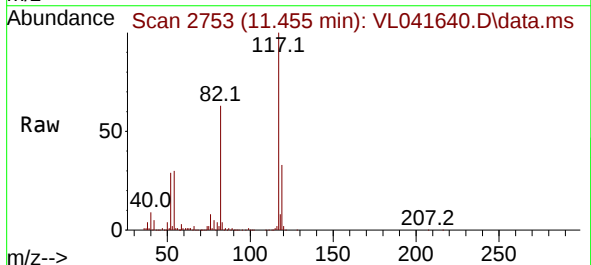
Instrument :  
MSVOA\_L  
ClientSampleId :

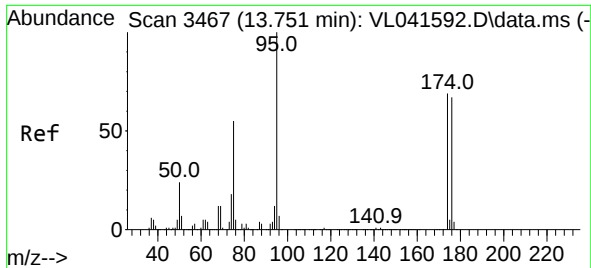
Tgt Ion: 91 Resp: 46980  
Ion Ratio Lower Upper  
91 100  
92 60.8 48.9 73.3



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.455 min Scan# 2753  
Delta R.T. 0.010 min  
Lab File: VL041640.D  
Acq: 10 Oct 2024 13:28

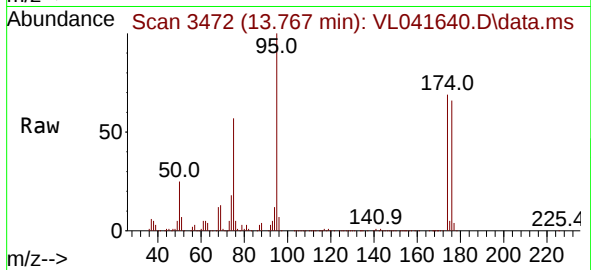
Tgt Ion: 117 Resp: 2844115  
Ion Ratio Lower Upper  
117 100  
82 65.2 49.4 74.2  
119 33.1 24.4 36.6





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.065 ppbv  
 RT: 13.767 min Scan# 34  
 Delta R.T. 0.016 min  
 Lab File: VL041640.D  
 Acq: 10 Oct 2024 13:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion: 95 Resp: 2107341

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 72.2  | 55.8  | 83.8  |
| 175 | 5.1   | 4.1   | 6.1   |

