

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101024\  
 Data File : VL041643.D  
 Acq On : 10 Oct 2024 15:26  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Oct 11 05:41:47 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

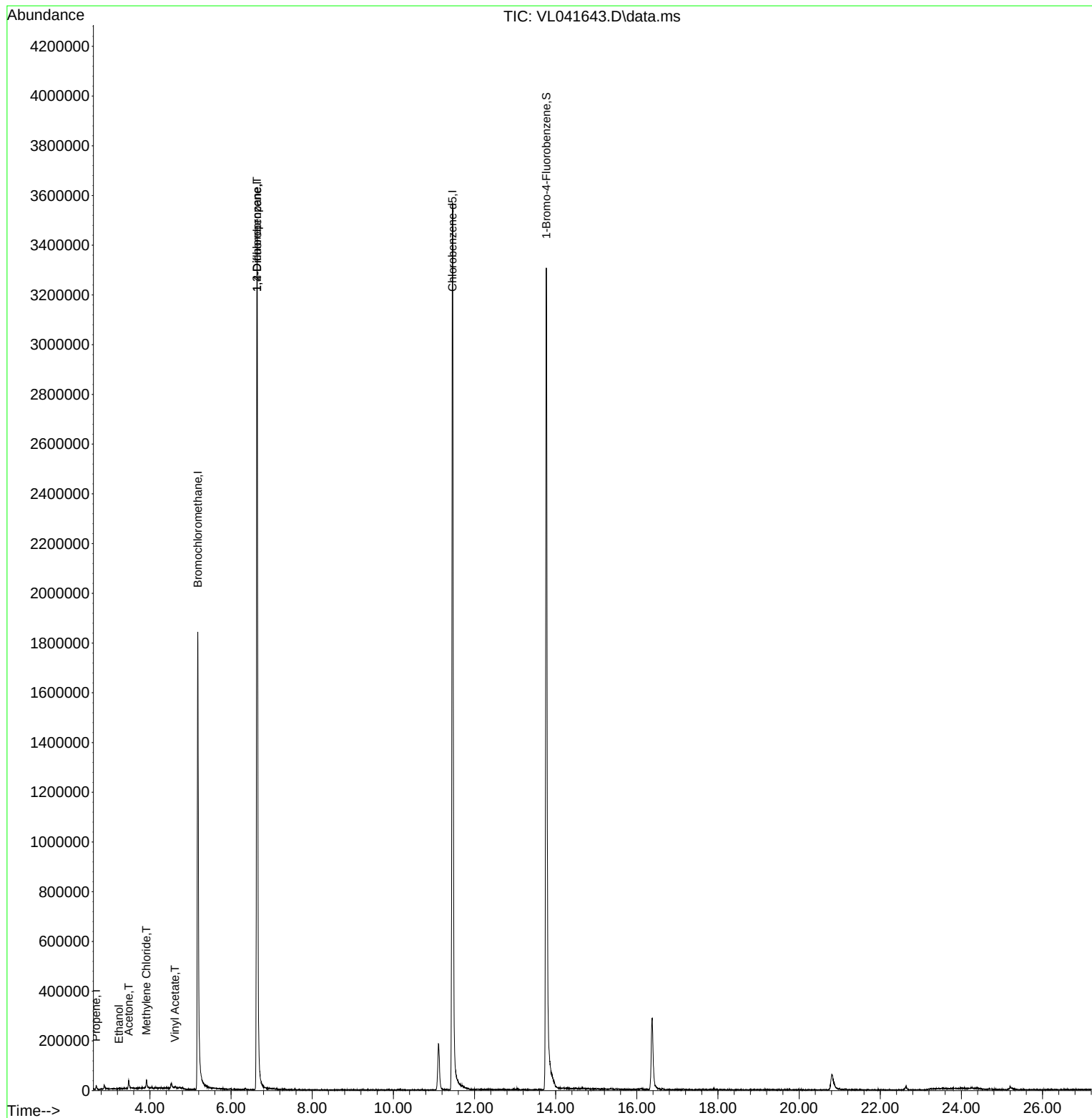
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.179  | 49    | 1045351  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.642  | 114   | 2752678  | 10.000   | ppbv   | 0.01     |
| 55) Chlorobenzene-d5        | 11.458 | 117   | 2421883  | 10.000   | ppbv   | 0.01     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.767 | 95    | 1737216  | 9.744    | ppbv   | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.400%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 2.671  | 41    | 5819     | 0.109    | ppbv   | 99       |
| 13) Ethanol                 | 3.234  | 45    | 239      | 0.059    | ppbv # | 37       |
| 15) Acetone                 | 3.475  | 43    | 31125    | 0.237    | ppbv # | 80       |
| 20) Methylene Chloride      | 3.915  | 84    | 10021    | 0.203    | ppbv   | 85       |
| 23) Vinyl Acetate           | 4.619  | 43    | 3073     | 0.043    | ppbv # | 86       |
| 39) 1,2-Dichloropropane     | 6.639  | 63    | 685694   | 8.817    | ppbv # | 23       |
| -----                       |        |       |          |          |        |          |

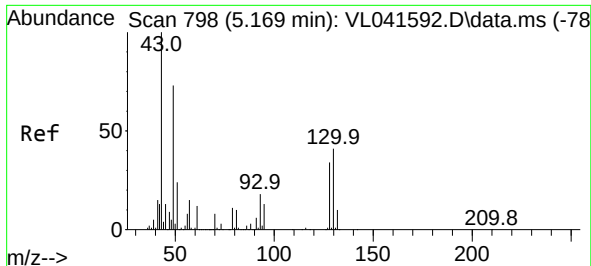
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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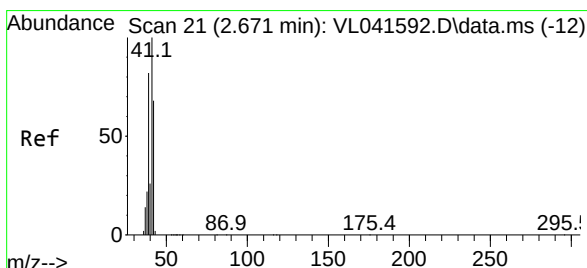
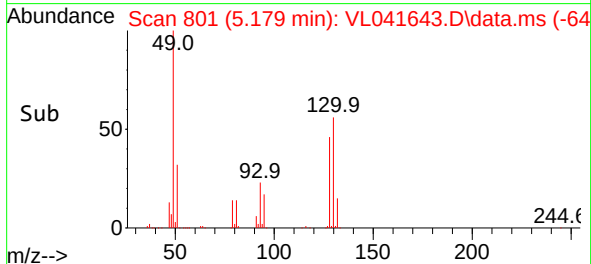
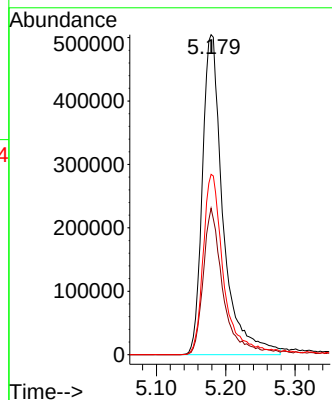
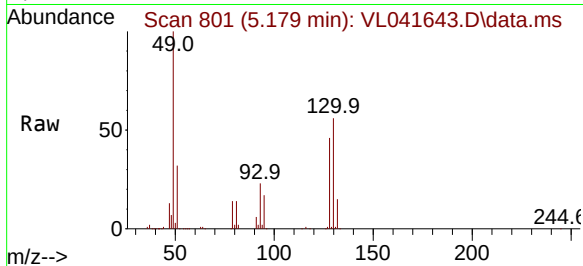




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.179 min Scan# 80  
Delta R.T. 0.010 min  
Lab File: VL041643.D  
Acq: 10 Oct 2024 15:26

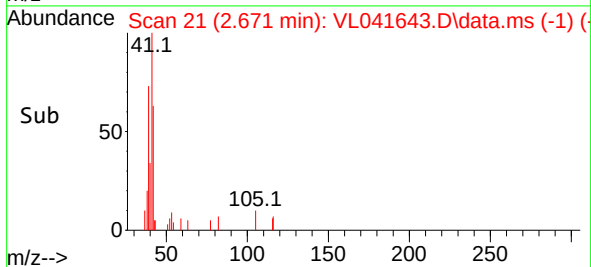
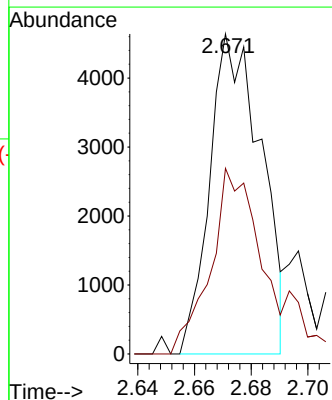
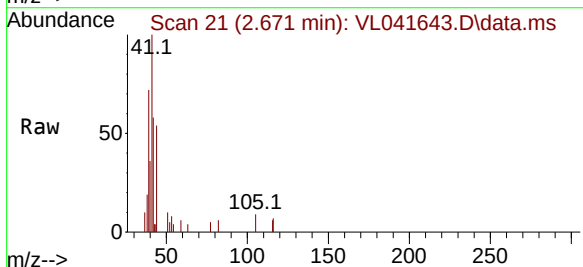
Instrument :  
MSVOA\_L  
ClientSampleId :

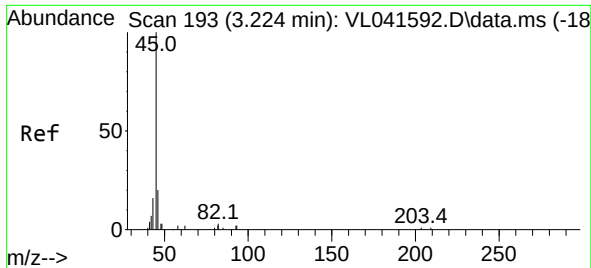
Tgt Ion: 49 Resp: 1045351  
Ion Ratio Lower Upper  
49 100  
128 45.9 23.8 71.5  
130 57.8 30.4 91.3



#9  
Propene  
Concen: 0.109 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041643.D  
Acq: 10 Oct 2024 15:26

Tgt Ion: 41 Resp: 5819  
Ion Ratio Lower Upper  
41 100  
42 69.6 55.2 82.8

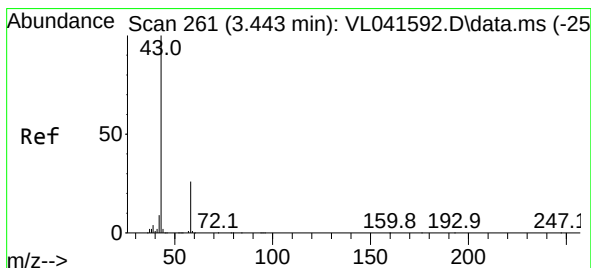
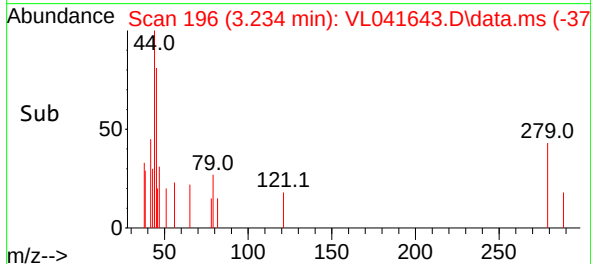
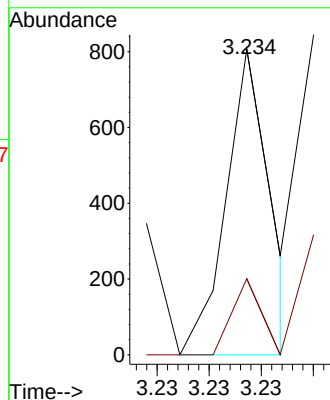
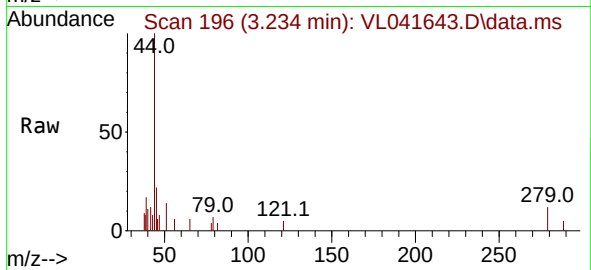




#13  
Ethanol  
Concen: 0.059 ppbv  
RT: 3.234 min Scan# 193  
Delta R.T. 0.010 min  
Lab File: VL041643.D  
Acq: 10 Oct 2024 15:26

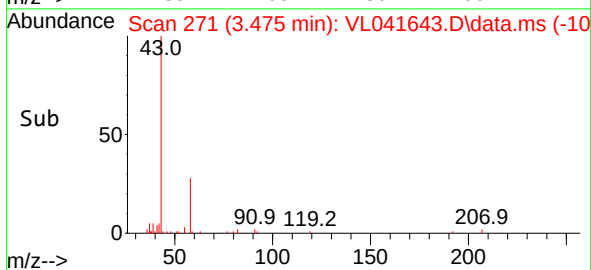
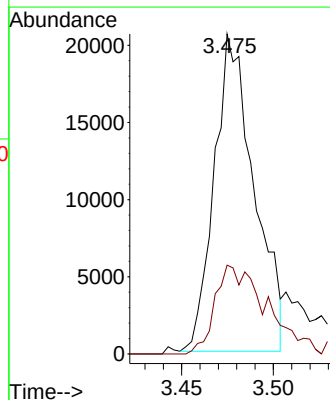
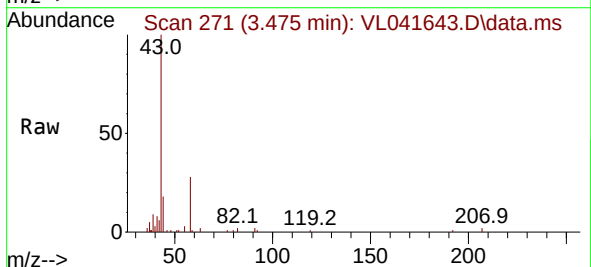
Instrument :  
MSVOA\_L  
ClientSampleId :

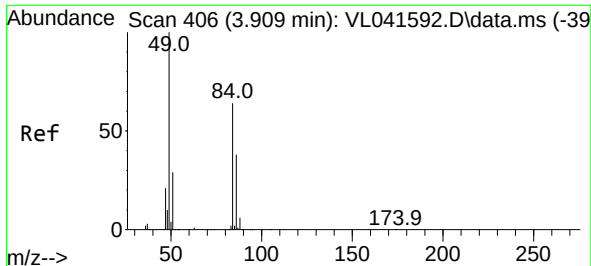
Tgt Ion: 45 Resp: 239  
Ion Ratio Lower Upper  
45 100  
46 0.0 15.2 60.8#



#15  
Acetone  
Concen: 0.237 ppbv  
RT: 3.475 min Scan# 271  
Delta R.T. 0.032 min  
Lab File: VL041643.D  
Acq: 10 Oct 2024 15:26

Tgt Ion: 43 Resp: 31125  
Ion Ratio Lower Upper  
43 100  
58 37.3 21.5 32.3#



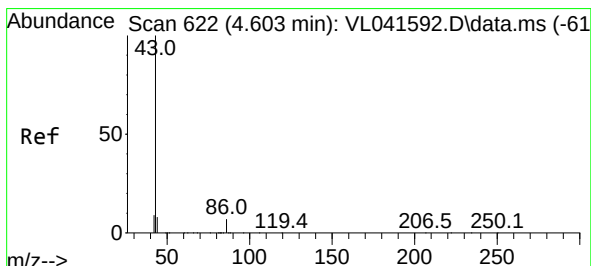
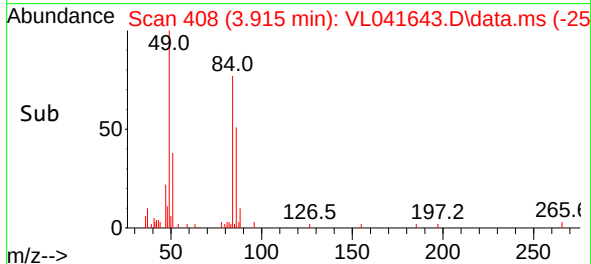
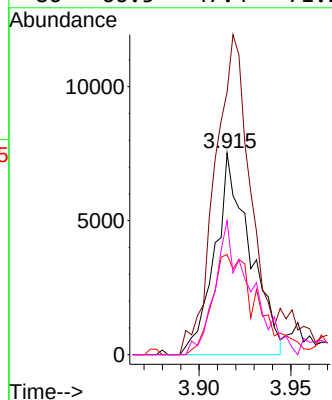
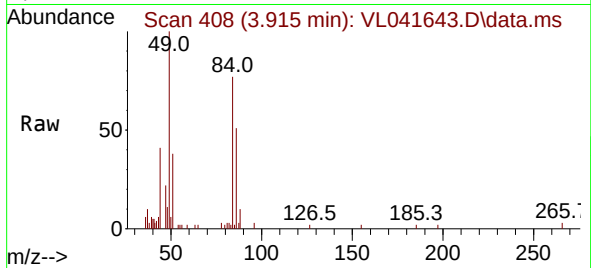


#20  
Methylene Chloride  
Concen: 0.203 ppbv  
RT: 3.915 min Scan# 408  
Delta R.T. 0.006 min  
Lab File: VL041643.D  
Acq: 10 Oct 2024 15:26

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 84 Resp: 10021

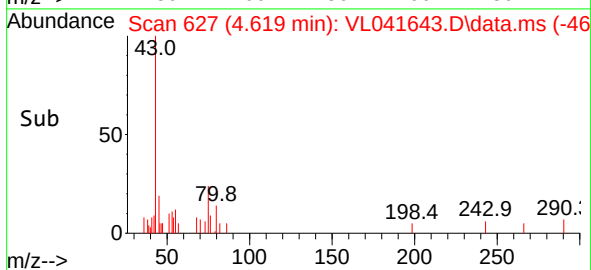
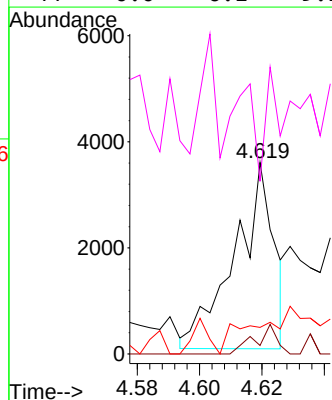
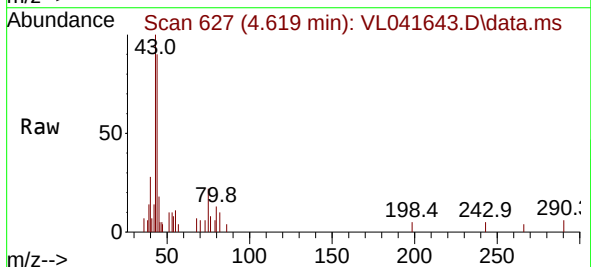
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 130.2 | 124.3 | 186.5 |
| 51  | 49.7  | 36.3  | 54.5  |
| 86  | 66.5  | 47.4  | 71.2  |

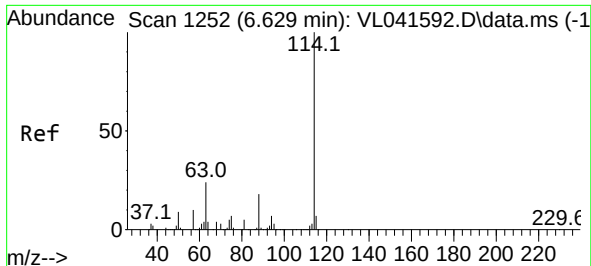


#23  
Vinyl Acetate  
Concen: 0.043 ppbv  
RT: 4.619 min Scan# 627  
Delta R.T. 0.016 min  
Lab File: VL041643.D  
Acq: 10 Oct 2024 15:26

Tgt Ion: 43 Resp: 3073

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 4.8   | 4.9   | 7.3#  |
| 42  | 15.1  | 8.0   | 12.0# |
| 44  | 0.0   | 6.1   | 9.1#  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 114

Delta R.T. 0.013 min

Lab File: VL041643.D

Acq: 10 Oct 2024 15:26

Instrument :

MSVOA\_L

ClientSampleId :

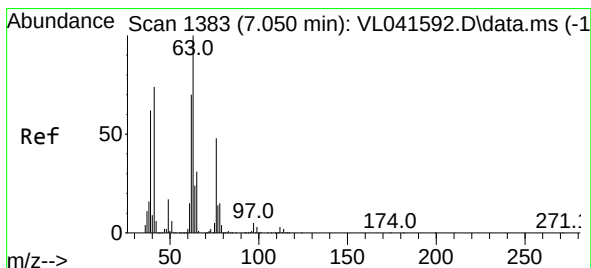
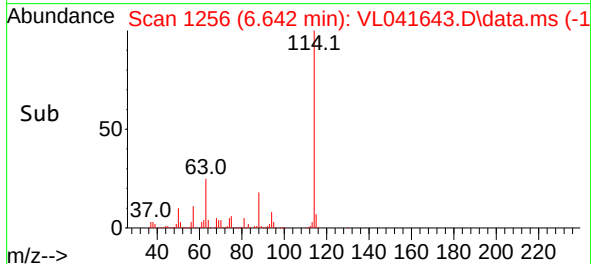
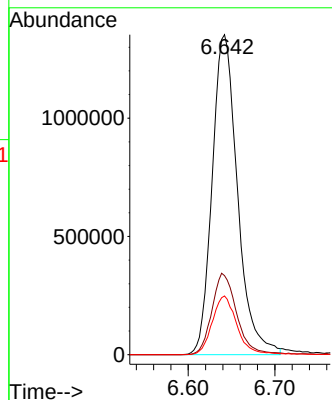
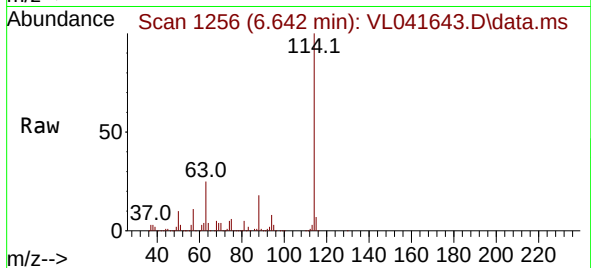
Tgt Ion:114 Resp: 2752678

Ion Ratio Lower Upper

114 100

63 25.3 20.2 30.2

88 18.0 14.2 21.4



#39

1,2-Dichloropropane

Concen: 8.817 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.411 min

Lab File: VL041643.D

Acq: 10 Oct 2024 15:26

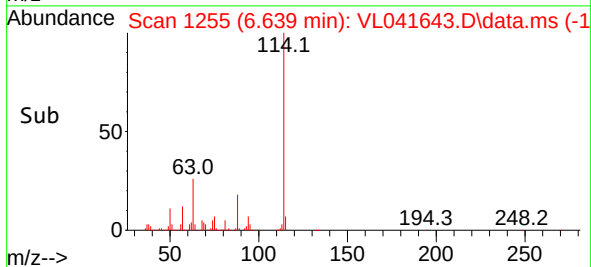
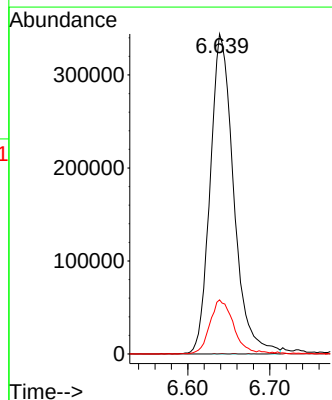
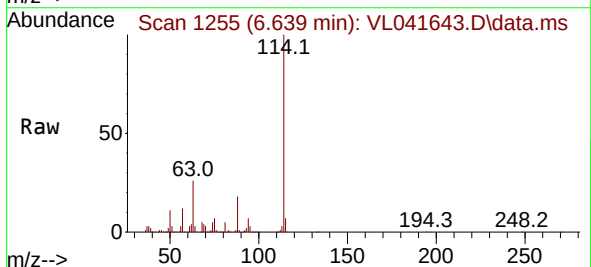
Tgt Ion: 63 Resp: 685694

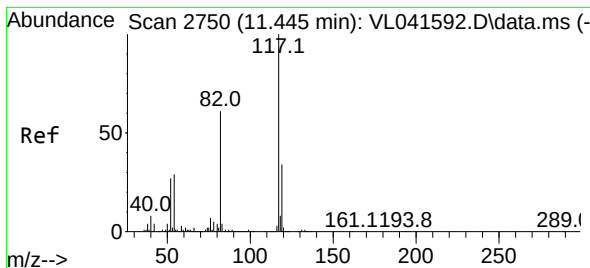
Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 16.9 56.2 84.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL041643.D

Acq: 10 Oct 2024 15:26

Instrument :

MSVOA\_L

ClientSampleId :

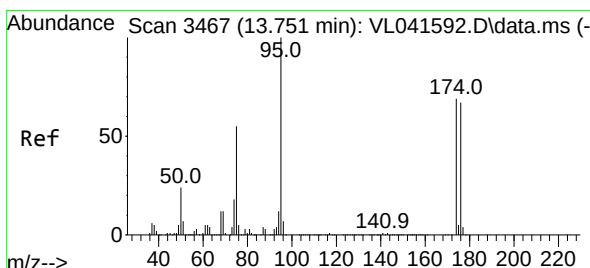
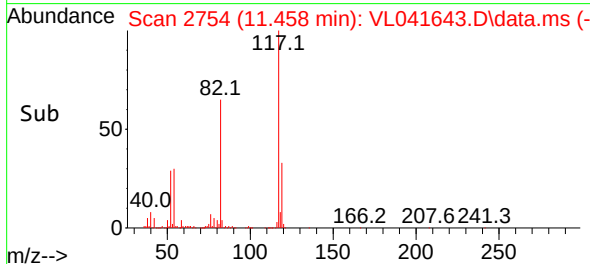
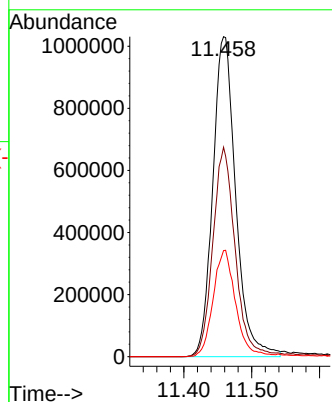
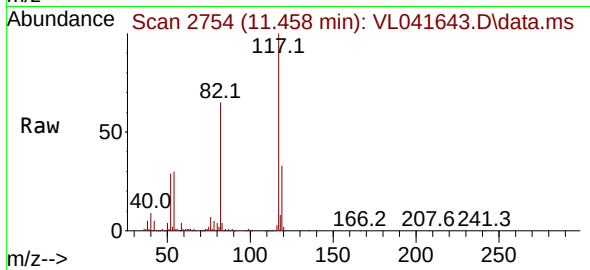
Tgt Ion:117 Resp: 2421883

Ion Ratio Lower Upper

117 100

82 65.3 49.4 74.2

119 33.3 24.4 36.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.744 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.016 min

Lab File: VL041643.D

Acq: 10 Oct 2024 15:26

Tgt Ion: 95 Resp: 1737216

Ion Ratio Lower Upper

95 100

174 73.1 55.8 83.8

175 5.1 4.1 6.1

