

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040725\  
 Data File : VL042251.D  
 Acq On : 08 Apr 2025 01:48  
 Operator : SY/MD  
 Sample : Q1725-08DL2 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B10-2-03312025DL

Quant Time: Apr 08 04:49:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

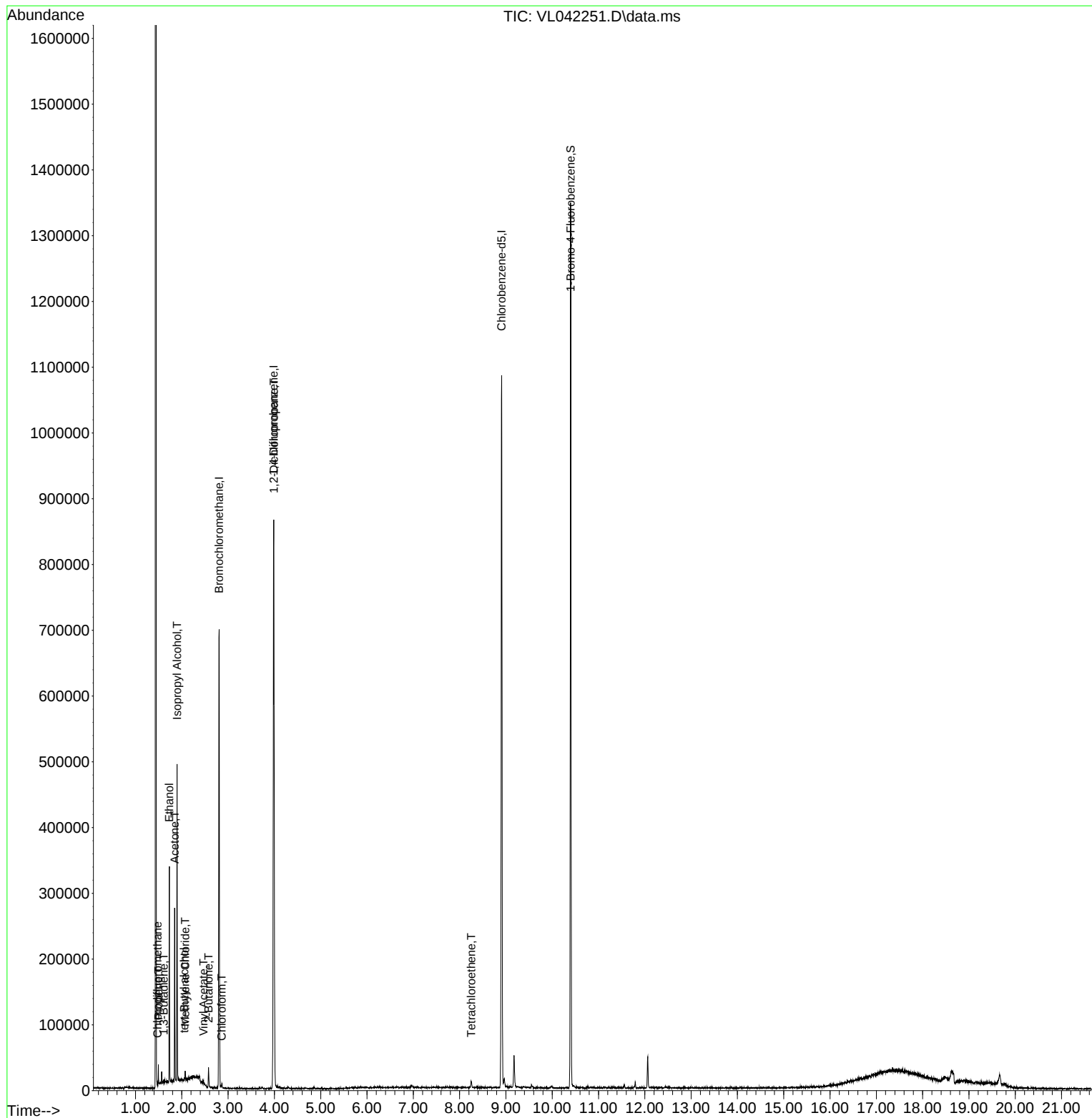
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.803  | 49    | 194708   | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 3.985  | 114   | 494678   | 10.000   | ppbv   | 0.03     |
| 55) Chlorobenzene-d5        | 8.907  | 117   | 424907   | 10.000   | ppbv   | 0.03     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.396 | 95    | 324876   | 9.310    | ppbv   | 0.03     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 93.100%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chlorodifluoromethane    | 1.473  | 51    | 1146     | 0.039    | ppbv # | 78       |
| 9) Propene                  | 1.496  | 41    | 2943     | 0.219    | ppbv   | 100      |
| 13) Ethanol                 | 1.732  | 45    | 119090   | 93.585   | ppbv   | 81       |
| 15) Acetone                 | 1.845  | 43    | 109482   | 4.020    | ppbv   | 96       |
| 16) 1,3-Butadiene           | 1.612  | 39    | 911      | 0.069    | ppbv # | 31       |
| 17) tert-Butyl alcohol      | 2.056  | 59    | 1323     | 0.039    | ppbv # | 76       |
| 19) Isopropyl Alcohol       | 1.897  | 45    | 196635   | 12.798   | ppbv # | 33       |
| 20) Methylene Chloride      | 2.072  | 84    | 1654     | 0.163    | ppbv # | 92       |
| 23) Vinyl Acetate           | 2.470  | 43    | 2030     | 0.172    | ppbv # | 81       |
| 29) Chloroform              | 2.861  | 83    | 1252     | 0.031    | ppbv # | 78       |
| 34) 2-Butanone              | 2.577  | 43    | 18789    | 0.524    | ppbv   | 94       |
| 39) 1,2-Dichloropropane     | 3.988  | 63    | 125598   | 7.032    | ppbv # | 22       |
| 52) Tetrachloroethene       | 8.250  | 164   | 1122     | 0.058    | ppbv   | 90       |
| -----                       |        |       |          |          |        |          |

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

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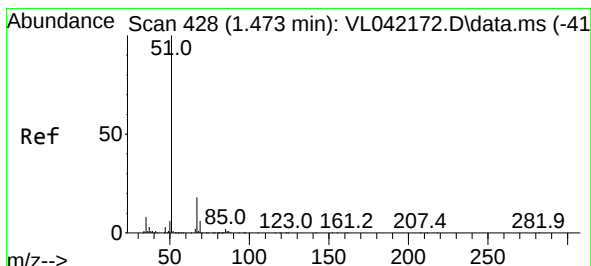
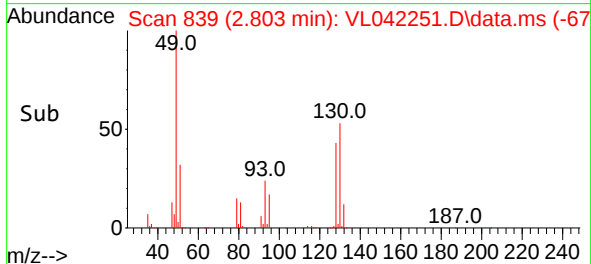
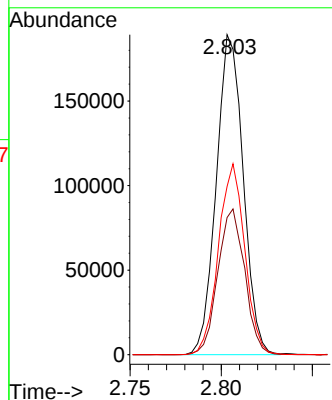
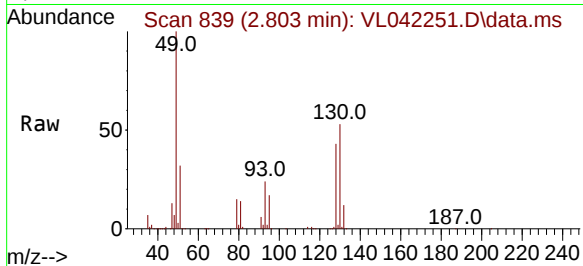




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.803 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

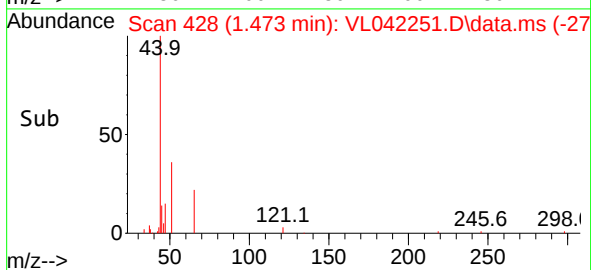
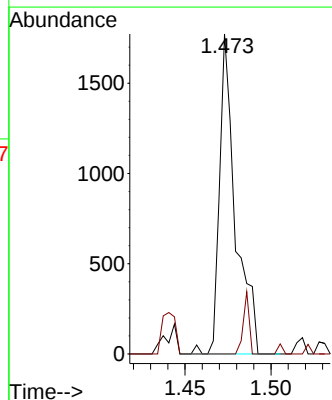
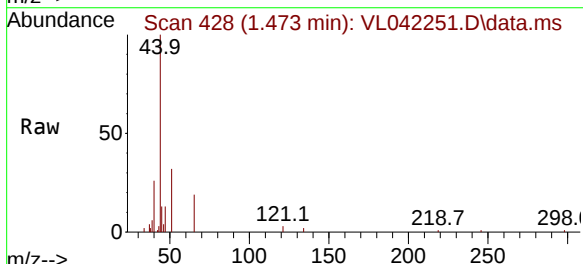
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B10-2-03312025DL

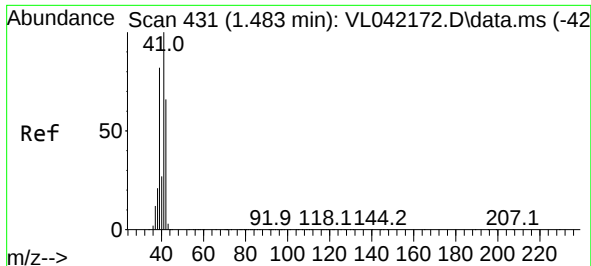
Tgt Ion: 49 Resp: 194708  
Ion Ratio Lower Upper  
49 100  
128 45.4 22.9 68.5  
130 58.3 28.8 86.4



#3  
Chlorodifluoromethane  
Concen: 0.039 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

Tgt Ion: 51 Resp: 1146  
Ion Ratio Lower Upper  
51 100  
67 8.9 15.0 22.6#





#9

Propene

Concen: 0.219 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

Instrument :

MSVOA\_L

ClientSampleId :

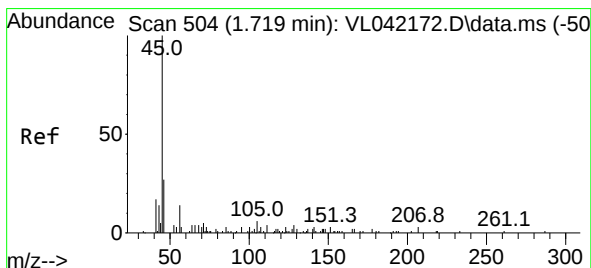
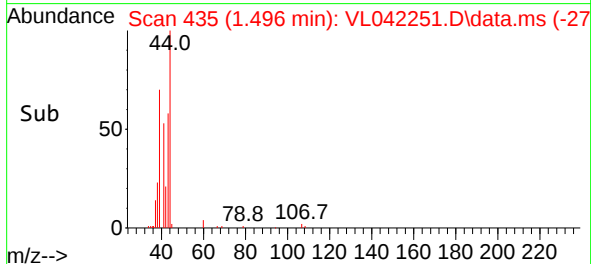
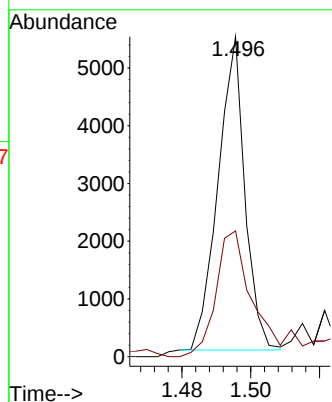
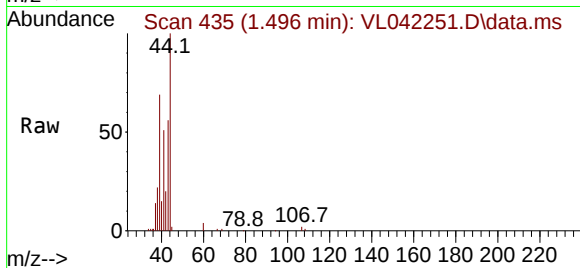
SSSG-B10-2-03312025DL

Tgt Ion: 41 Resp: 2943

Ion Ratio Lower Upper

41 100

42 69.3 55.4 83.2



#13

Ethanol

Concen: 93.585 ppbv

RT: 1.732 min Scan# 508

Delta R.T. 0.013 min

Lab File: VL042251.D

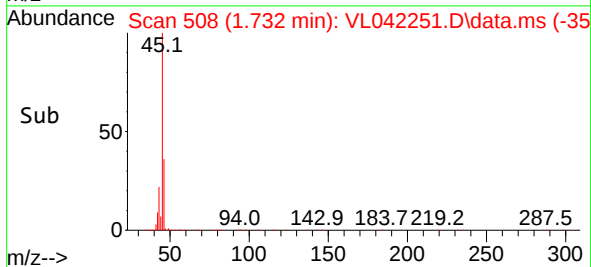
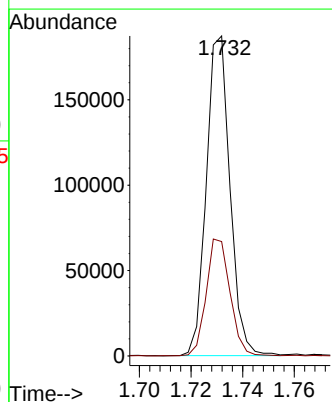
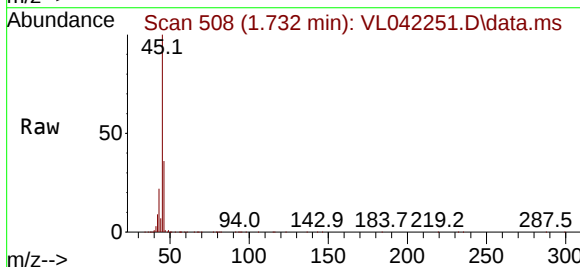
Acq: 08 Apr 2025 01:48

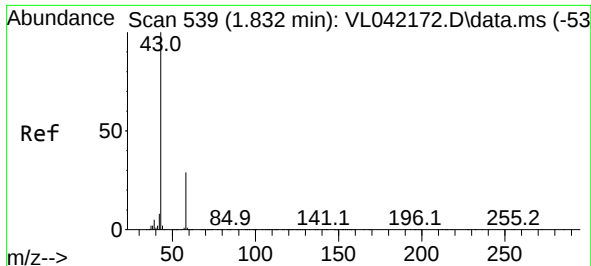
Tgt Ion: 45 Resp: 119090

Ion Ratio Lower Upper

45 100

46 37.3 20.2 80.8





#15

Acetone

Concen: 4.020 ppbv

RT: 1.845 min Scan# 541

Delta R.T. 0.013 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

Instrument :

MSVOA\_L

ClientSampleId :

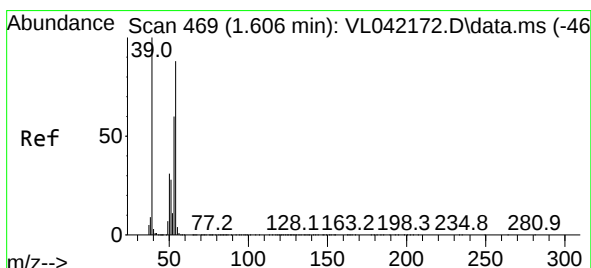
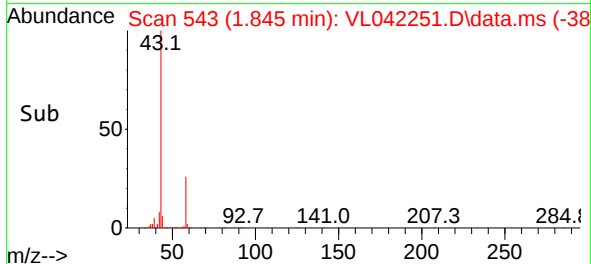
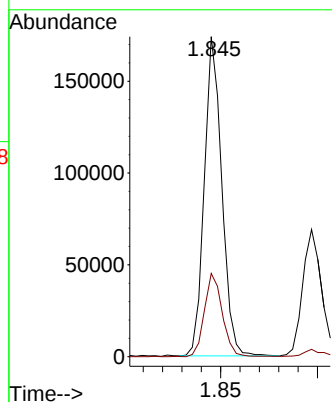
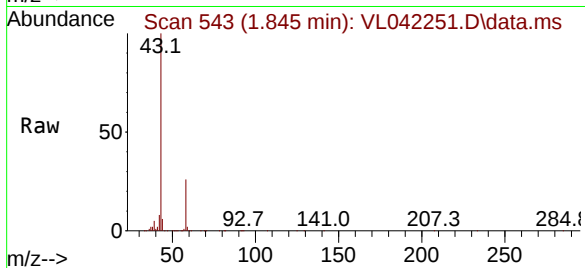
SSSG-B10-2-03312025DL

Tgt Ion: 43 Resp: 109482

Ion Ratio Lower Upper

43 100

58 26.8 23.2 34.8



#16

1,3-Butadiene

Concen: 0.069 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.006 min

Lab File: VL042251.D

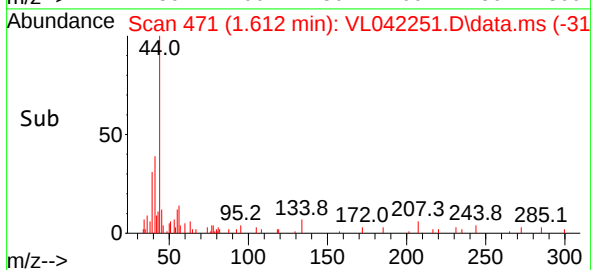
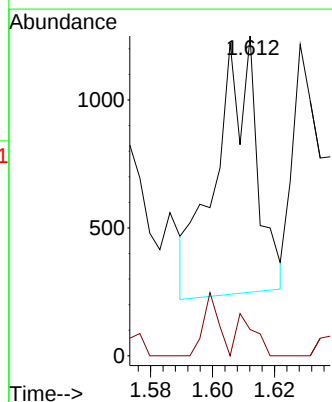
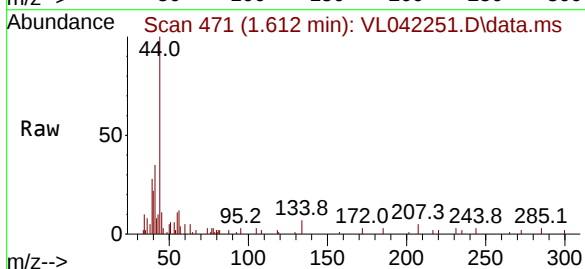
Acq: 08 Apr 2025 01:48

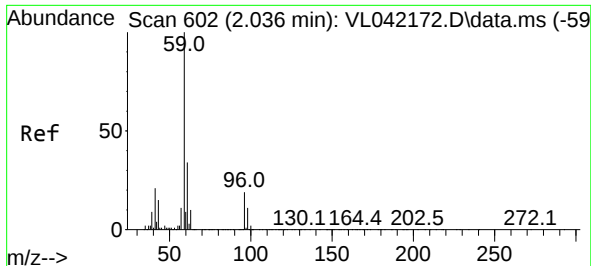
Tgt Ion: 39 Resp: 911

Ion Ratio Lower Upper

39 100

54 16.7 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 2.056 min Scan# 602

Delta R.T. 0.019 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

Instrument :

MSVOA\_L

ClientSampleId :

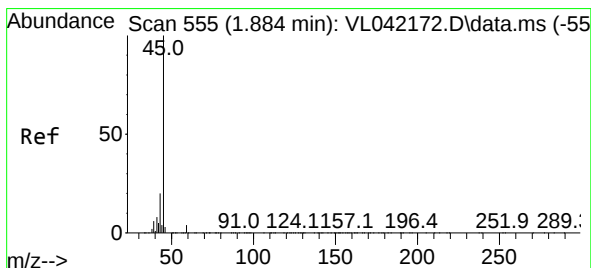
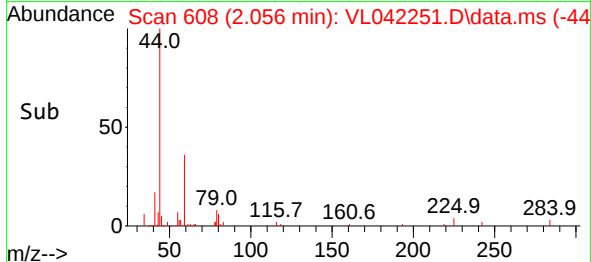
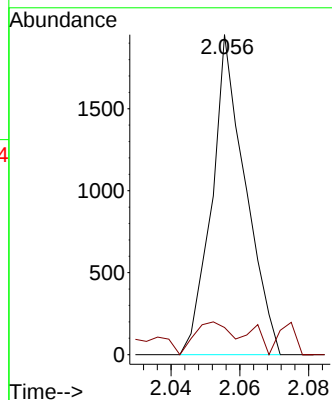
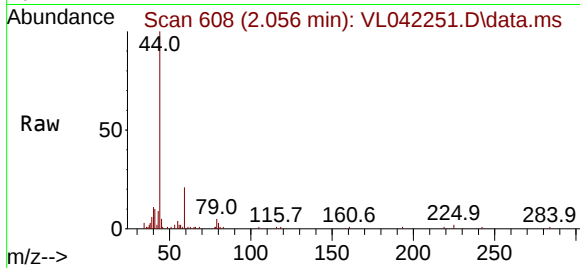
SSSG-B10-2-03312025DL

Tgt Ion: 59 Resp: 1323

Ion Ratio Lower Upper

59 100

57 20.4 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 12.798 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042251.D

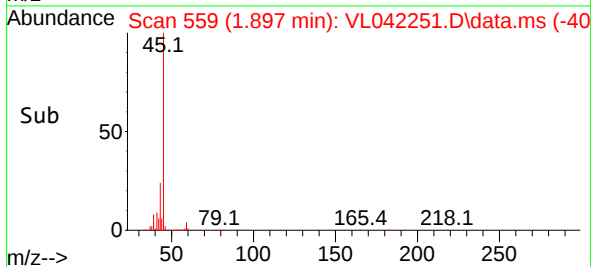
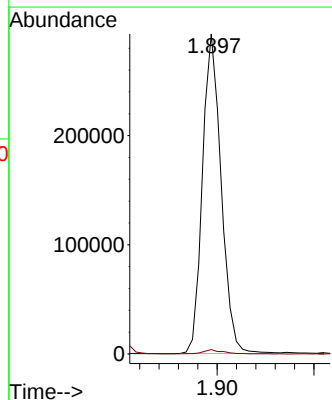
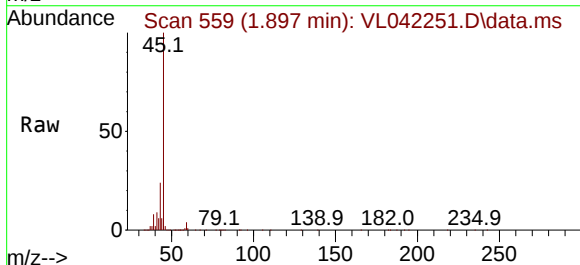
Acq: 08 Apr 2025 01:48

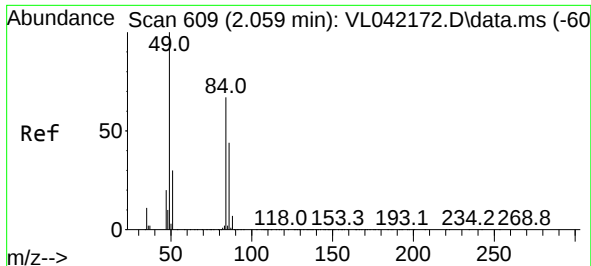
Tgt Ion: 45 Resp: 196635

Ion Ratio Lower Upper

45 100

58 1.5 36.9 55.3#



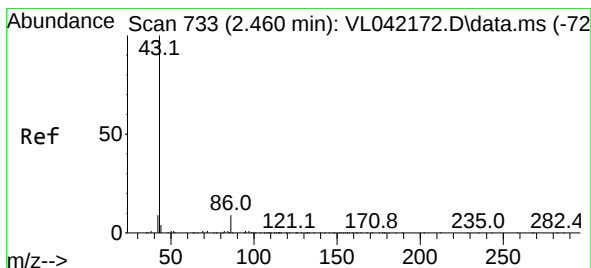
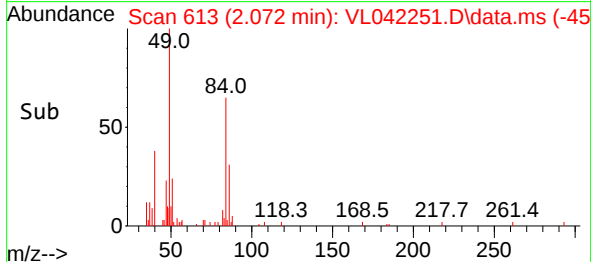
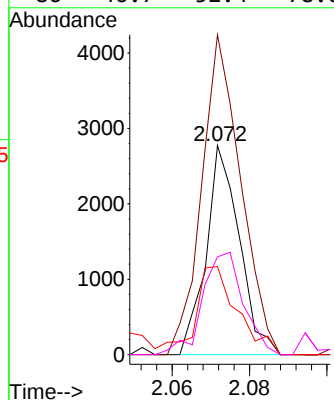
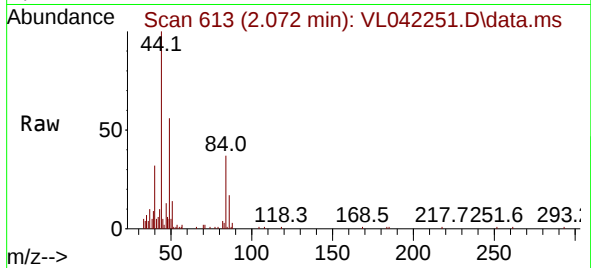


#20  
Methylene Chloride  
Concen: 0.163 ppbv  
RT: 2.072 min Scan# 613  
Delta R.T. 0.013 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B10-2-03312025DL

Tgt Ion: 84 Resp: 1654

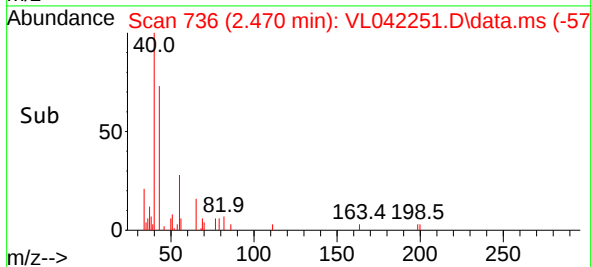
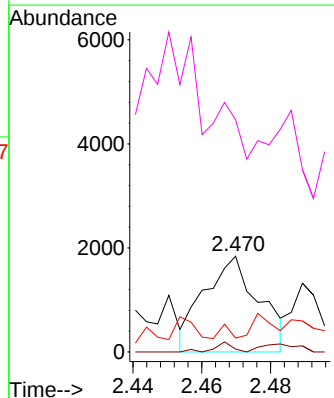
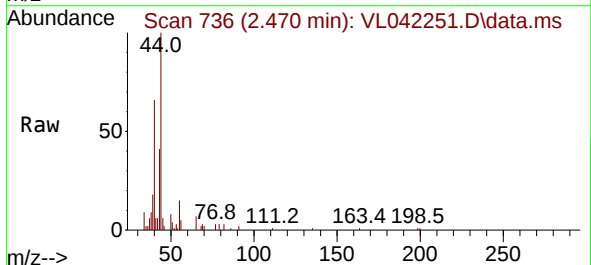
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 152.9 | 120.2 | 180.4 |
| 51  | 42.1  | 37.4  | 56.0  |
| 86  | 46.7  | 52.4  | 78.6# |

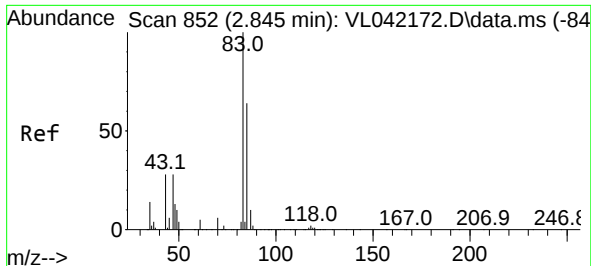


#23  
Vinyl Acetate  
Concen: 0.172 ppbv  
RT: 2.470 min Scan# 736  
Delta R.T. 0.010 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

Tgt Ion: 43 Resp: 2030

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 4.0   | 5.5   | 8.3#  |
| 42  | 0.0   | 8.6   | 13.0# |
| 44  | 13.2  | 6.2   | 9.4#  |





#29

Chloroform

Concen: 0.031 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

Instrument :

MSVOA\_L

ClientSampleId :

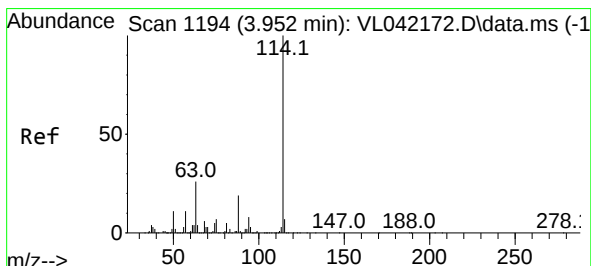
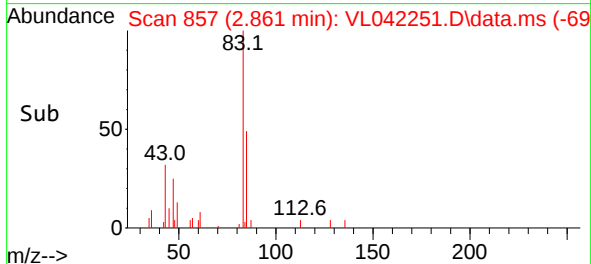
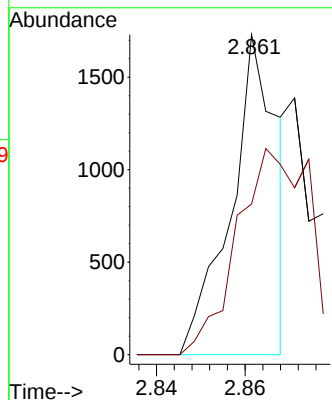
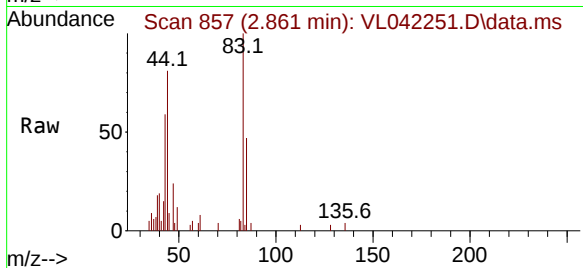
SSSG-B10-2-03312025DL

Tgt Ion: 83 Resp: 1252

Ion Ratio Lower Upper

83 100

85 47.1 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 1204

Delta R.T. 0.032 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

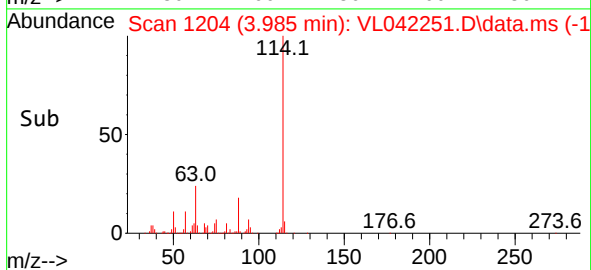
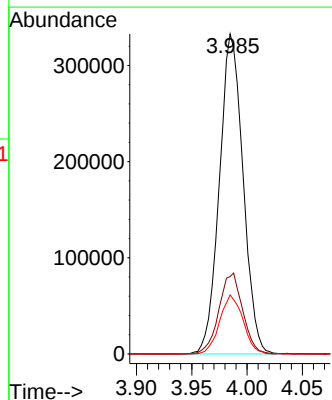
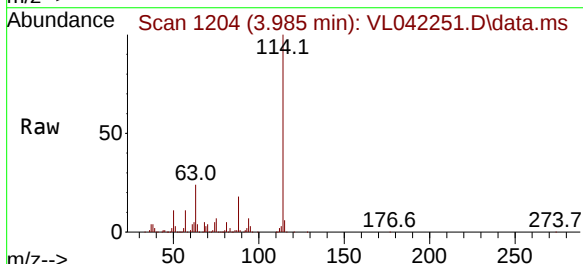
Tgt Ion: 114 Resp: 494678

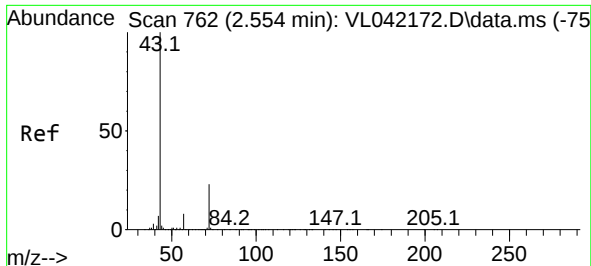
Ion Ratio Lower Upper

114 100

63 25.5 20.7 31.1

88 18.1 15.0 22.4

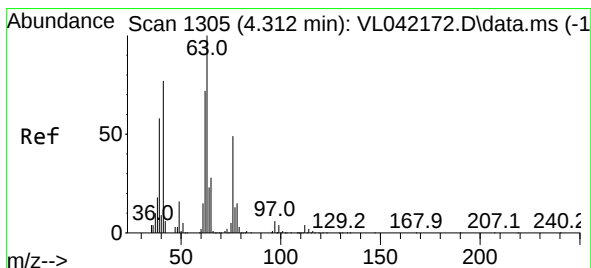
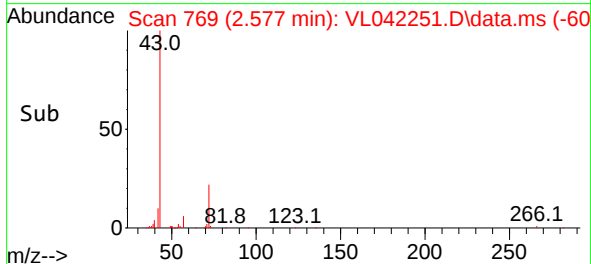
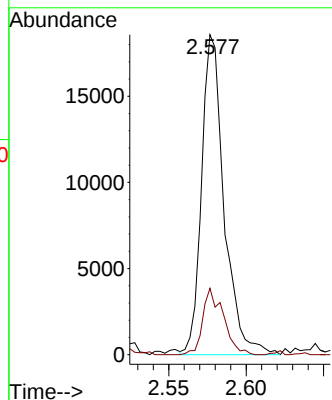
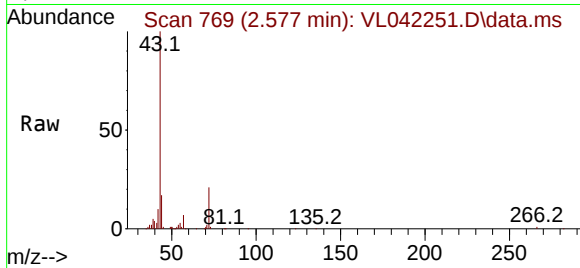




#34  
2-Butanone  
Concen: 0.524 ppbv  
RT: 2.577 min Scan# 769  
Delta R.T. 0.022 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

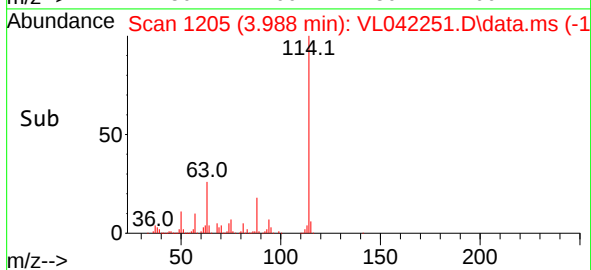
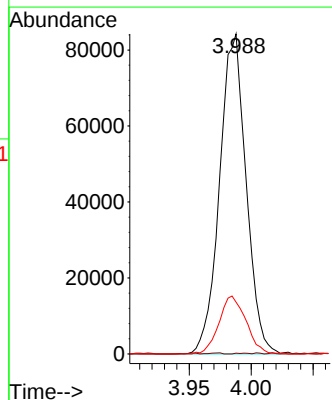
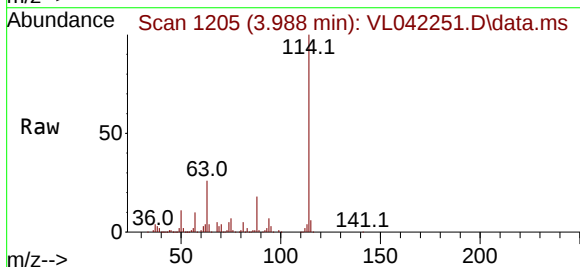
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B10-2-03312025DL

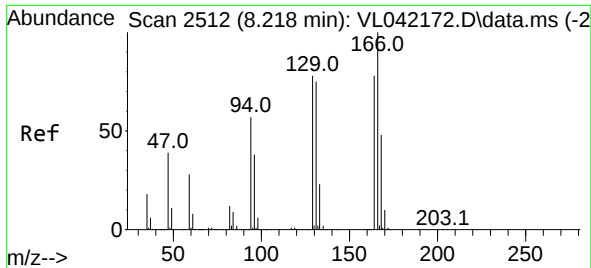
Tgt Ion: 43 Resp: 18789  
Ion Ratio Lower Upper  
43 100  
72 19.6 18.2 27.2



#39  
1,2-Dichloropropane  
Concen: 7.032 ppbv  
RT: 3.988 min Scan# 1205  
Delta R.T. -0.324 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

Tgt Ion: 63 Resp: 125598  
Ion Ratio Lower Upper  
63 100  
41 0.2 61.7 92.5#  
62 16.2 57.6 86.4#

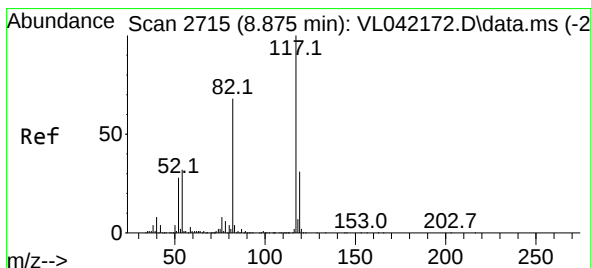
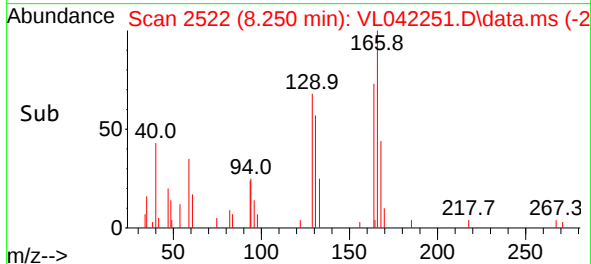
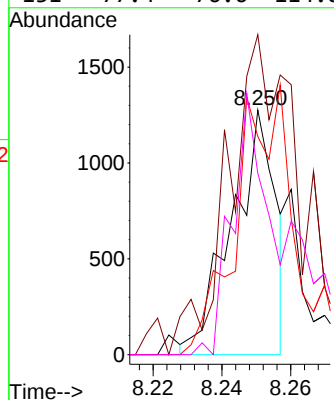
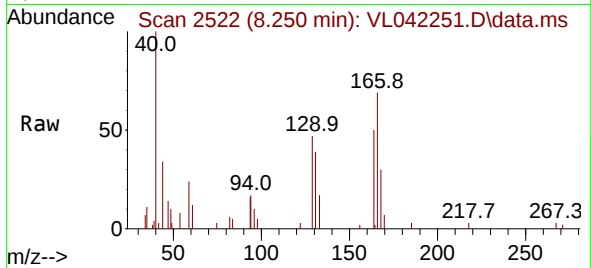




#52  
Tetrachloroethene  
Concen: 0.058 ppbv  
RT: 8.250 min Scan# 2112  
Delta R.T. 0.032 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

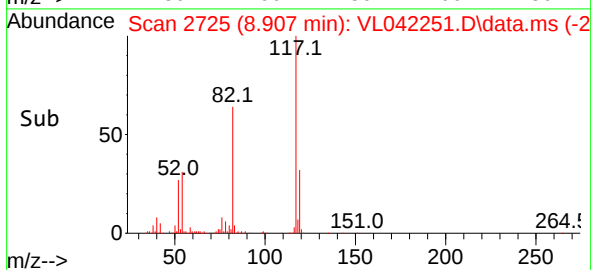
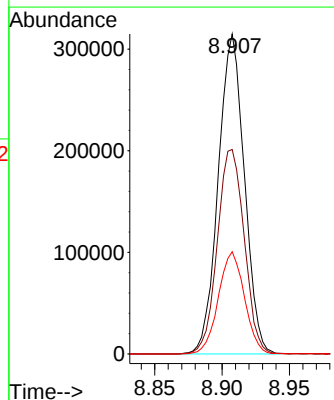
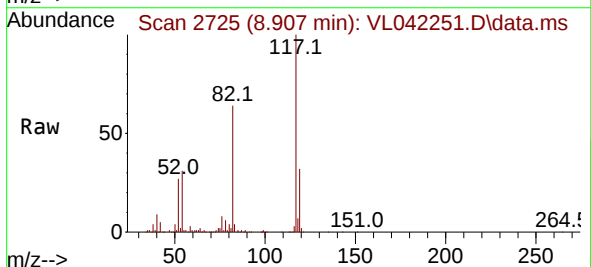
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B10-2-03312025DL

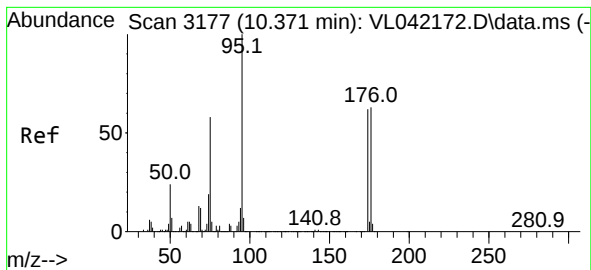
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:164 | Resp: | 1122  |       |
| Ion         | Ratio | Lower | Upper |
| 164         | 100   |       |       |
| 166         | 120.3 | 102.5 | 153.7 |
| 129         | 93.0  | 79.8  | 119.8 |
| 131         | 77.4  | 76.6  | 114.8 |



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.907 min Scan# 2725  
Delta R.T. 0.032 min  
Lab File: VL042251.D  
Acq: 08 Apr 2025 01:48

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:117 | Resp: | 424907 |       |
| Ion         | Ratio | Lower  | Upper |
| 117         | 100   |        |       |
| 82          | 65.9  | 55.8   | 83.6  |
| 119         | 32.0  | 25.5   | 38.3  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.310 ppbv  
 RT: 10.396 min Scan# 31  
 Delta R.T. 0.026 min  
 Lab File: VL042251.D  
 Acq: 08 Apr 2025 01:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B10-2-03312025DL

Tgt Ion: 95 Resp: 324876  
 Ion Ratio Lower Upper  
 95 100  
 174 60.1 50.6 76.0  
 175 4.5 3.8 5.6

