

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061925\  
 Data File : VL042659.D  
 Acq On : 19 Jun 2025 17:26  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

Quant Time: Jun 20 01:40:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL052925AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri May 30 02:01:56 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 107257   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.978 | 114  | 276044   | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 8.901 | 117  | 239558   | 10.000 | ppbv  | 0.01     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95    | 182169   | 10.144   | ppbv | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.400% |

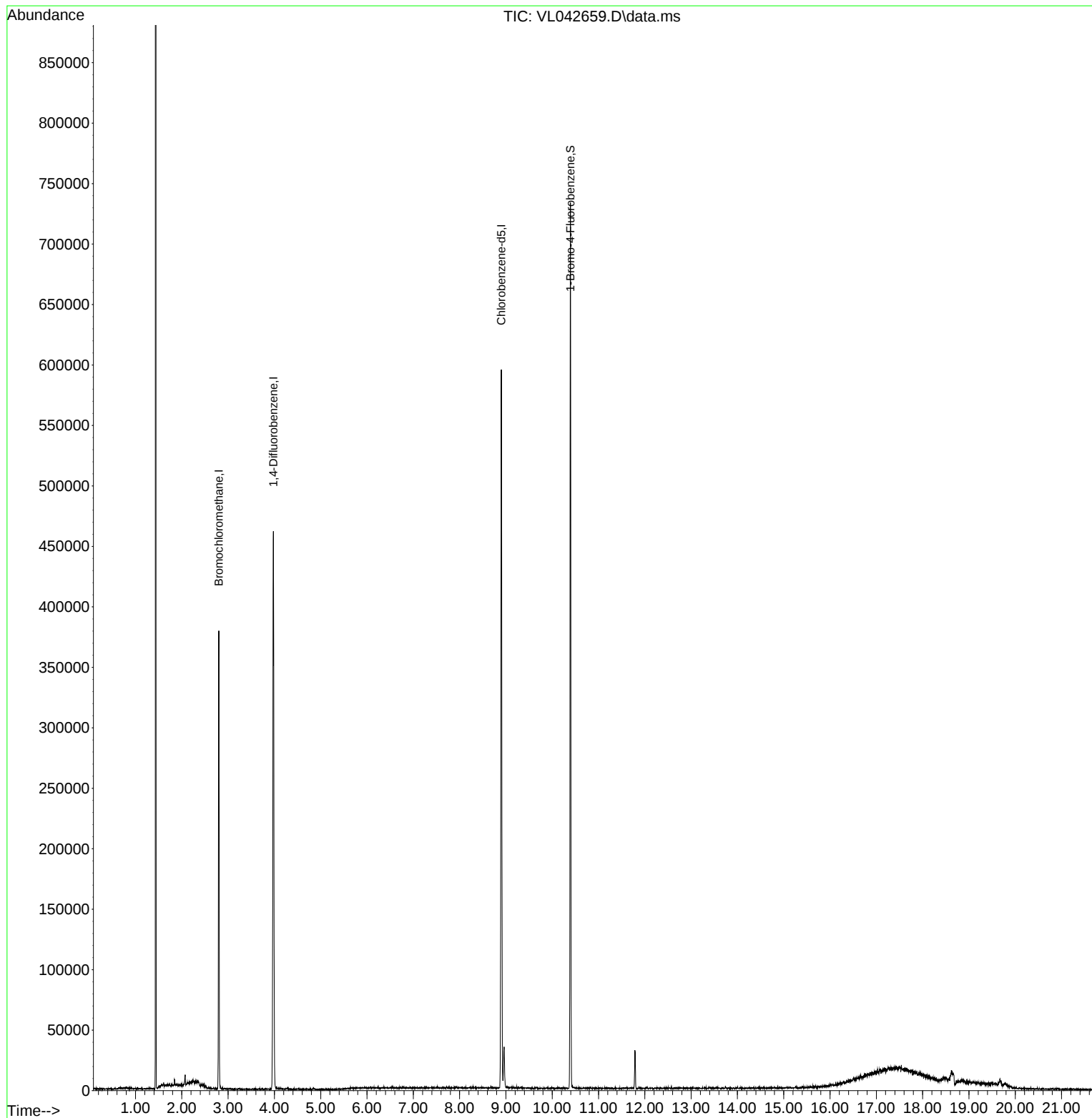
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

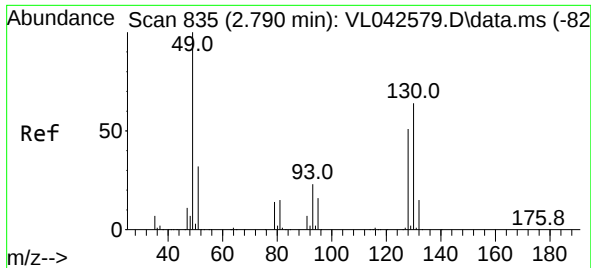
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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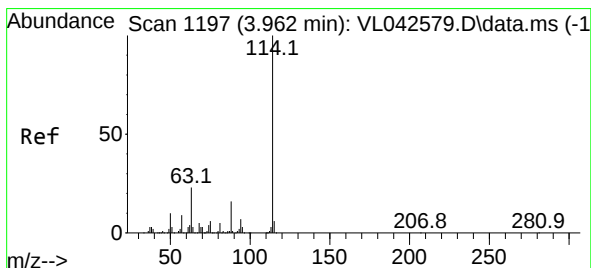
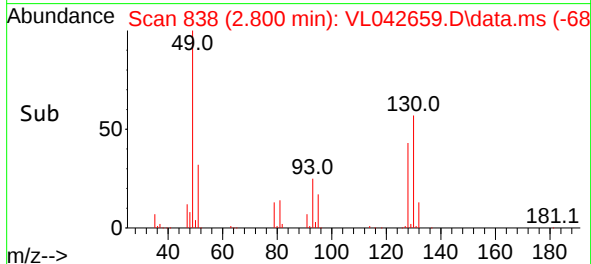
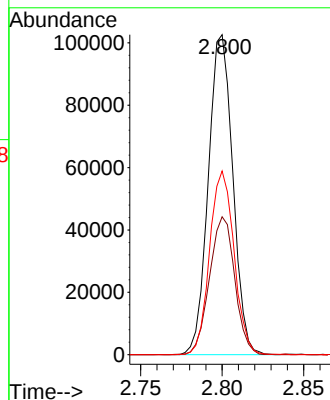
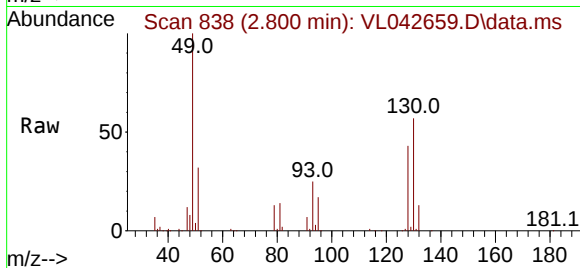




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.800 min Scan# 81  
 Delta R.T. 0.010 min  
 Lab File: VL042659.D  
 Acq: 19 Jun 2025 17:26

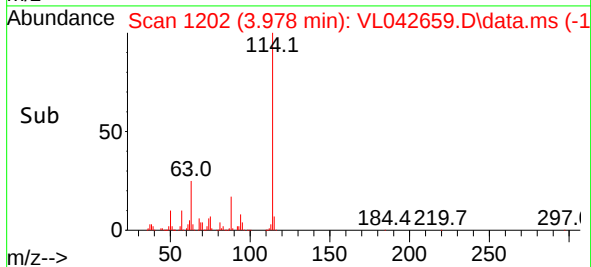
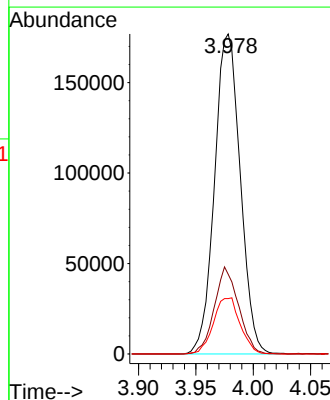
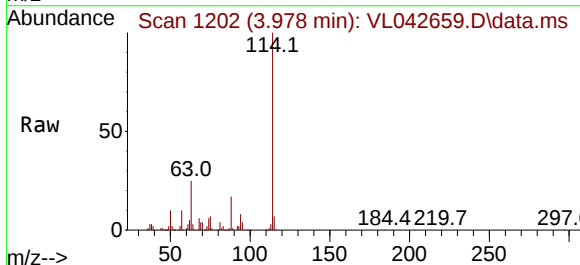
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

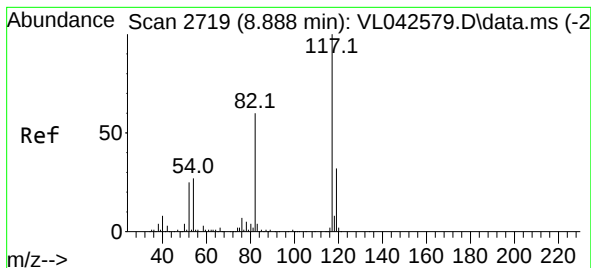
Tgt Ion: 49 Resp: 107257  
 Ion Ratio Lower Upper  
 49 100  
 128 44.4 24.2 72.6  
 130 57.2 30.4 91.2



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.978 min Scan# 1202  
 Delta R.T. 0.016 min  
 Lab File: VL042659.D  
 Acq: 19 Jun 2025 17:26

Tgt Ion: 114 Resp: 276044  
 Ion Ratio Lower Upper  
 114 100  
 63 25.7 19.0 28.6  
 88 18.2 13.6 20.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042659.D

Acq: 19 Jun 2025 17:26

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

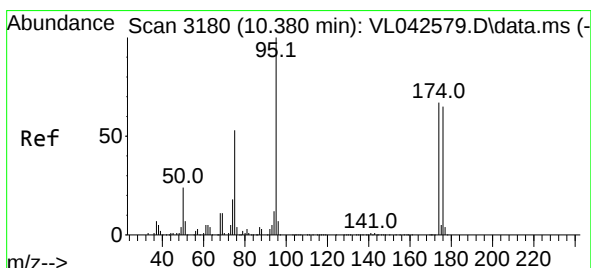
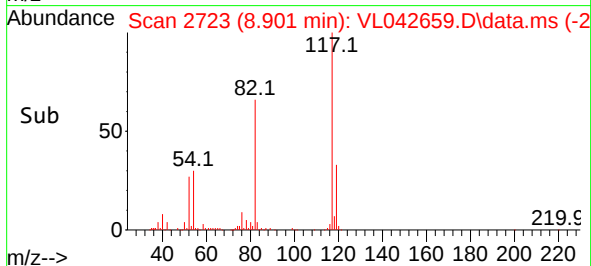
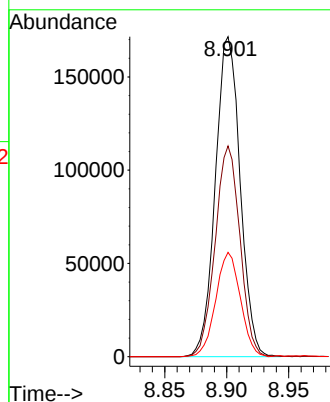
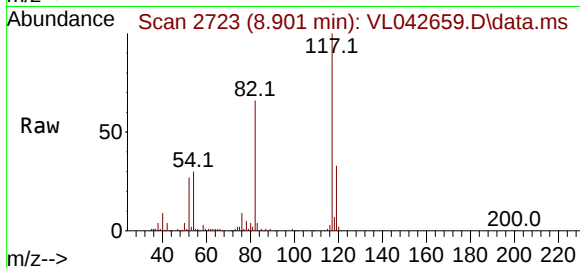
Tgt Ion:117 Resp: 239558

Ion Ratio Lower Upper

117 100

82 66.0 51.2 76.8

119 32.5 26.3 39.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.144 ppbv

RT: 10.393 min Scan# 3184

Delta R.T. 0.013 min

Lab File: VL042659.D

Acq: 19 Jun 2025 17:26

Tgt Ion: 95 Resp: 182169

Ion Ratio Lower Upper

95 100

174 61.7 53.1 79.7

175 4.6 4.2 6.2

