

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL052124\  
 Data File : VL041266.D  
 Acq On : 21 May 2024 15:32  
 Operator : SY/MD  
 Sample : P2533-02DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

Quant Time: May 22 05:44:59 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed May 22 05:39:49 2024  
 Response via : Initial Calibration

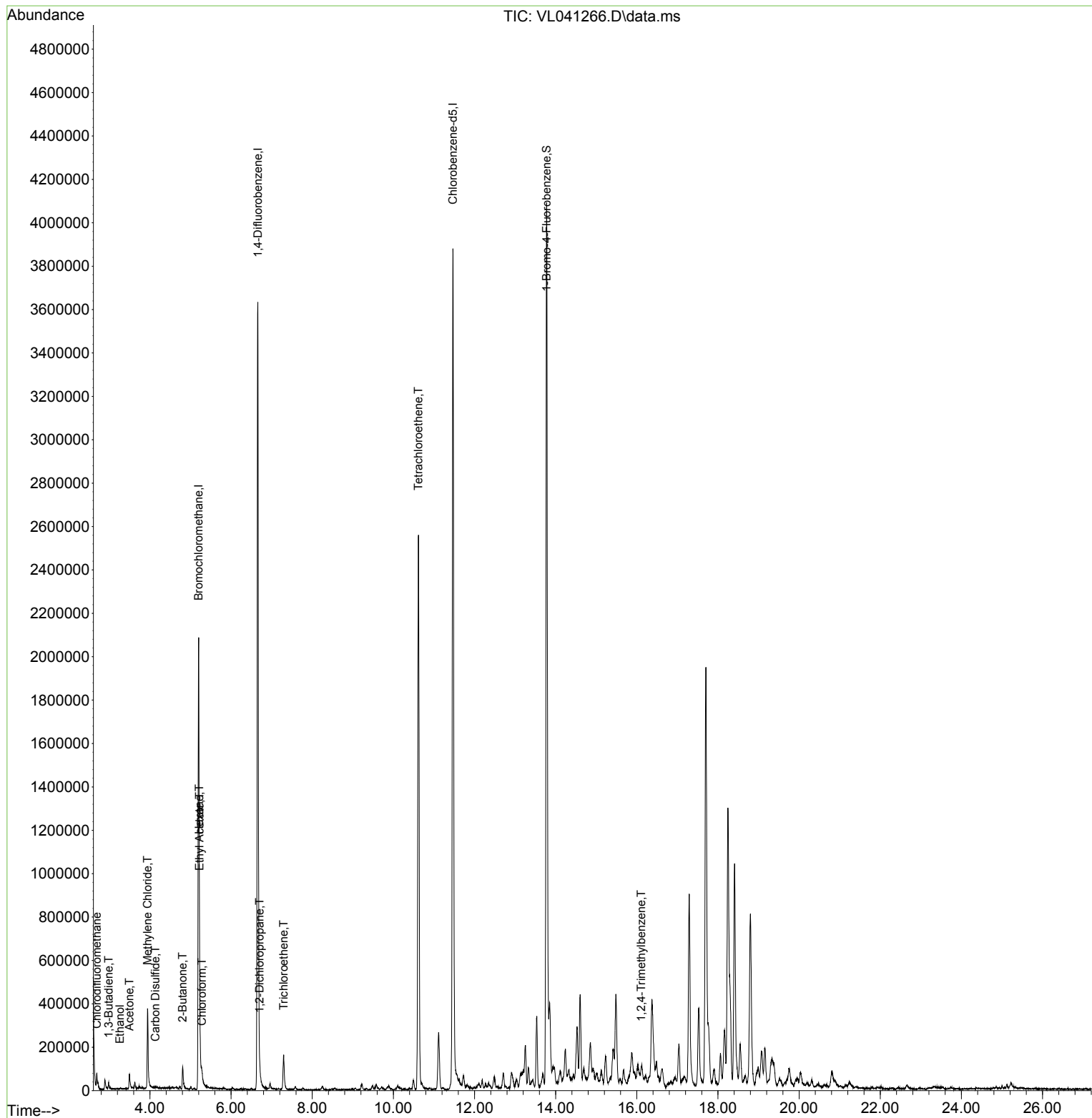
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.198  | 49    | 1033080  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.658  | 114   | 2799870  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.468 | 117   | 2552936  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 2041660  | 10.593   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 105.900% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chlorodifluoromethane    | 2.690  | 51    | 67158    | 0.428    | ppbv   | 98       |
| 13) Ethanol                 | 3.259  | 45    | 924      | 0.067    | ppbv # | 38       |
| 15) Acetone                 | 3.494  | 43    | 68308    | 0.560    | ppbv # | 76       |
| 16) 1,3-Butadiene           | 2.983  | 39    | 7410     | 0.120    | ppbv # | 15       |
| 20) Methylene Chloride      | 3.944  | 84    | 112070   | 2.643    | ppbv   | 98       |
| 25) Ethyl Acetate           | 5.221  | 43    | 80499    | 0.331    | ppbv # | 76       |
| 26) Hexane                  | 5.218  | 57    | 113526   | 1.045    | ppbv # | 41       |
| 27) Carbon Disulfide        | 4.134  | 76    | 4859     | 0.038    | ppbv # | 12       |
| 29) Chloroform              | 5.279  | 83    | 24362    | 0.163    | ppbv   | 96       |
| 34) 2-Butanone              | 4.806  | 43    | 124537   | 0.874    | ppbv   | 98       |
| 38) Trichloroethene         | 7.298  | 130   | 47681    | 0.545    | ppbv   | 94       |
| 39) 1,2-Dichloropropane     | 6.703  | 63    | 8503     | 0.094    | ppbv # | 17       |
| 52) Tetrachloroethene       | 10.619 | 164   | 635362   | 7.694    | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene  | 16.108 | 105   | 13802    | 0.045    | ppbv # | 59       |
| -----                       |        |       |          |          |        |          |

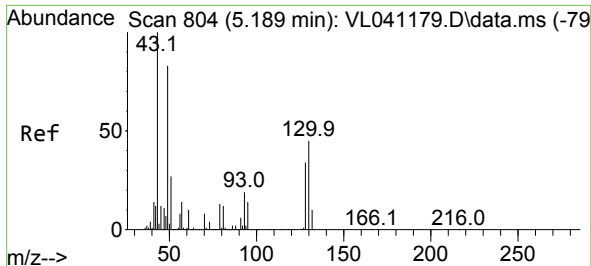
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL052124\  
Data File : VL041266.D  
Acq On : 21 May 2024 15:32  
Operator : SY/MD  
Sample : P2533-02DL 20X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

Quant Time: May 22 05:44:59 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed May 22 05:39:49 2024  
Response via : Initial Calibration

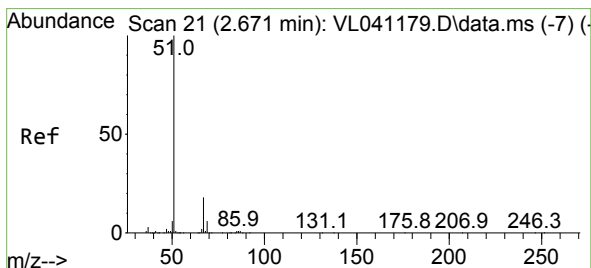
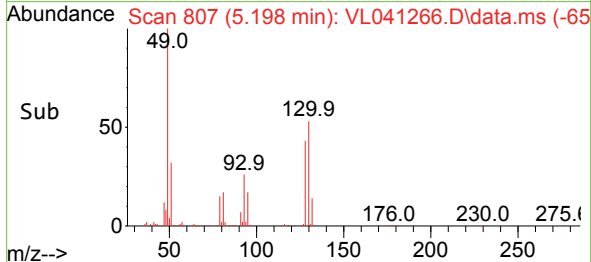
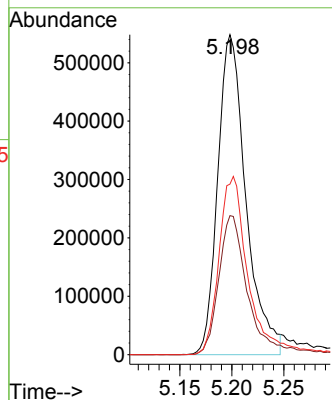
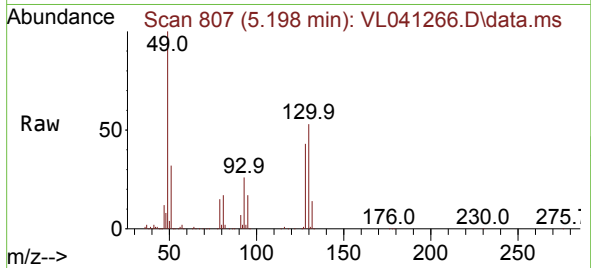




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.198 min Scan# 80  
Delta R.T. -0.003 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

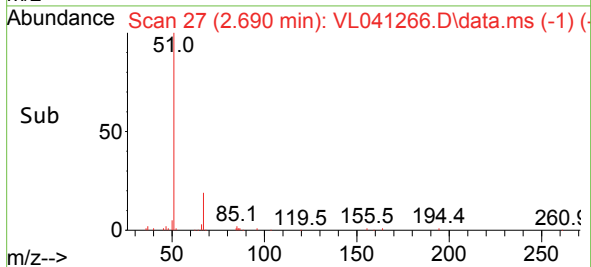
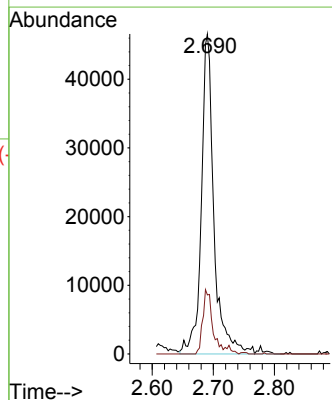
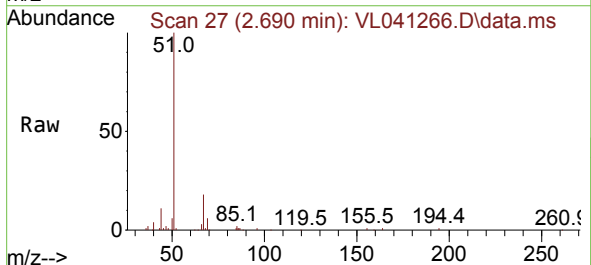
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

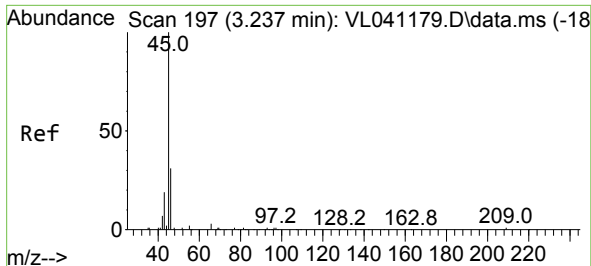
Tgt Ion: 49 Resp: 1033080  
Ion Ratio Lower Upper  
49 100  
128 46.4 21.5 64.5  
130 59.6 27.2 81.6



#3  
Chlorodifluoromethane  
Concen: 0.428 ppbv  
RT: 2.690 min Scan# 27  
Delta R.T. -0.003 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

Tgt Ion: 51 Resp: 67158  
Ion Ratio Lower Upper  
51 100  
67 16.8 14.0 21.0

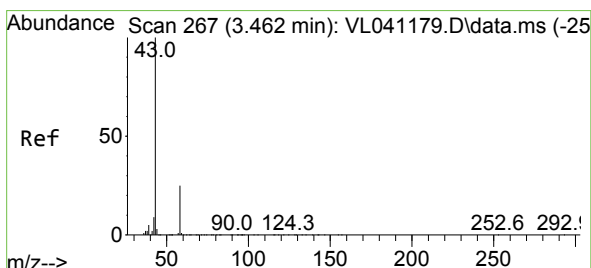
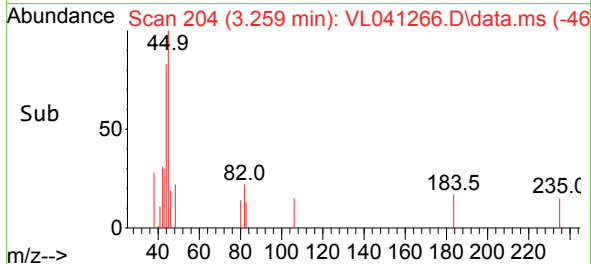
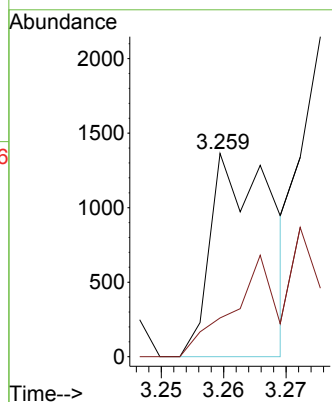
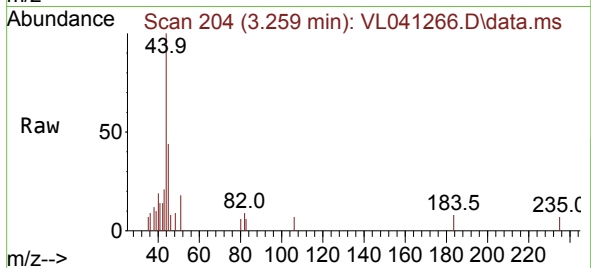




#13  
 Ethanol  
 Concen: 0.067 ppbv  
 RT: 3.259 min Scan# 204  
 Delta R.T. 0.006 min  
 Lab File: VL041266.D  
 Acq: 21 May 2024 15:32

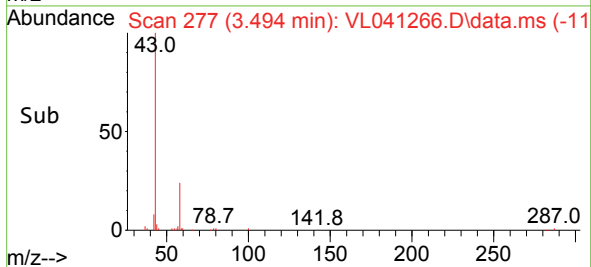
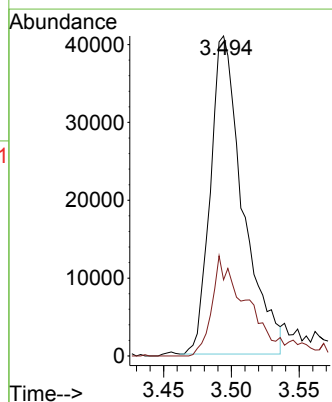
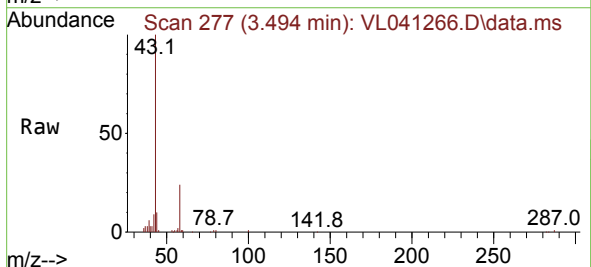
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

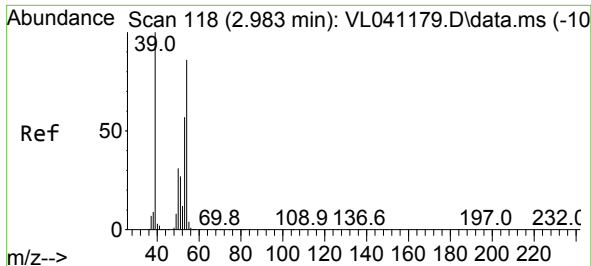
Tgt Ion: 45 Resp: 924  
 Ion Ratio Lower Upper  
 45 100  
 46 0.0 14.8 59.0#



#15  
 Acetone  
 Concen: 0.560 ppbv  
 RT: 3.494 min Scan# 277  
 Delta R.T. 0.013 min  
 Lab File: VL041266.D  
 Acq: 21 May 2024 15:32

Tgt Ion: 43 Resp: 68308  
 Ion Ratio Lower Upper  
 43 100  
 58 39.1 21.4 32.0#

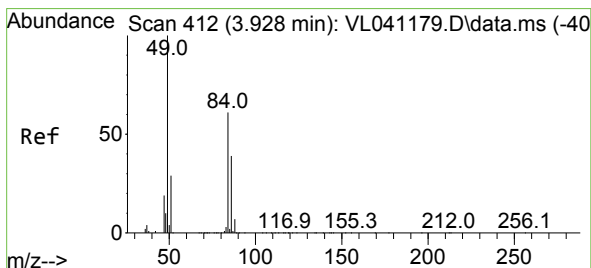
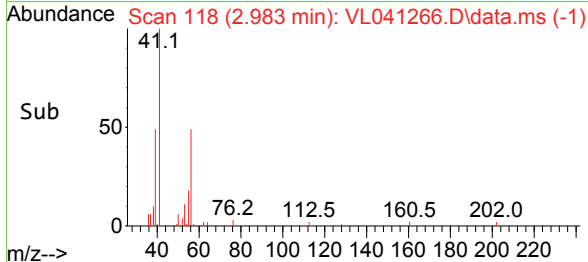
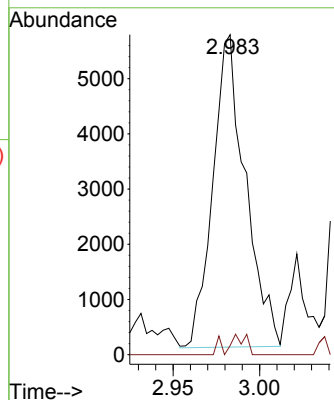
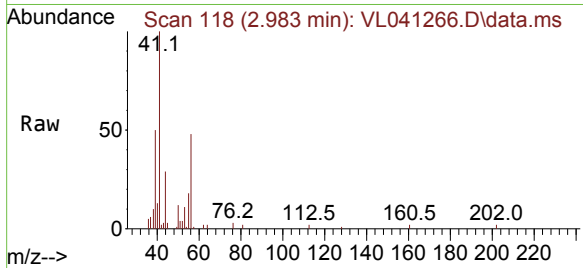




#16  
1,3-Butadiene  
Concen: 0.120 ppbv  
RT: 2.983 min Scan# 118  
Delta R.T. -0.019 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

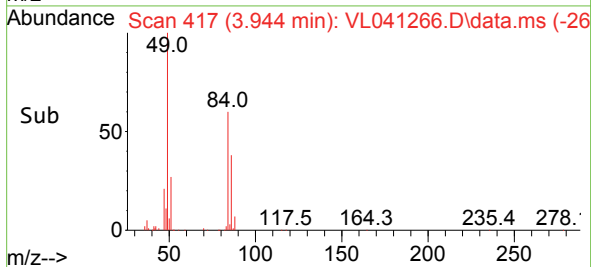
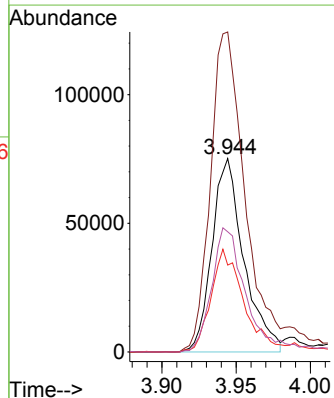
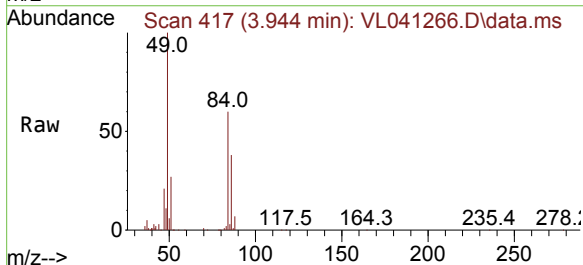
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

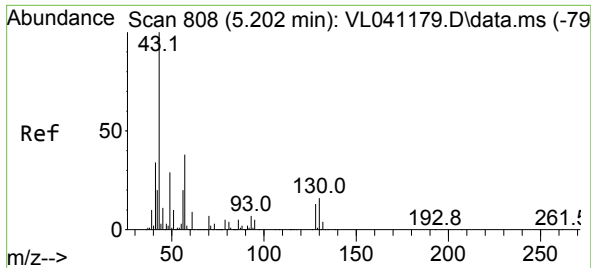
Tgt Ion: 39 Resp: 7410  
Ion Ratio Lower Upper  
39 100  
54 3.7 62.2 93.4#



#20  
Methylene Chloride  
Concen: 2.643 ppbv  
RT: 3.944 min Scan# 417  
Delta R.T. -0.000 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

Tgt Ion: 84 Resp: 112070  
Ion Ratio Lower Upper  
84 100  
49 165.2 130.4 195.6  
51 45.0 38.0 57.0  
86 62.2 50.3 75.5

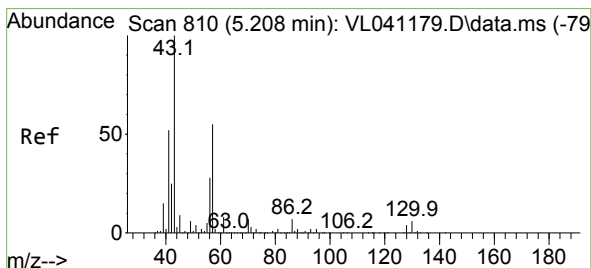
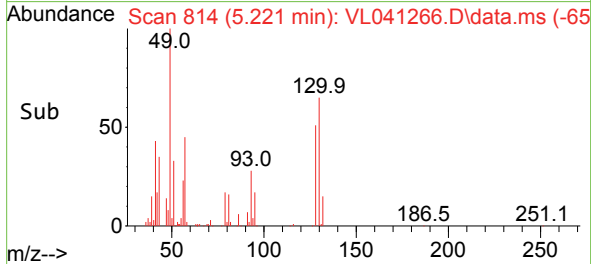
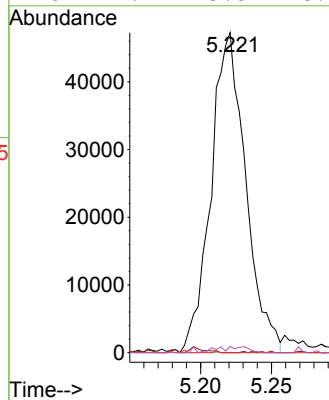
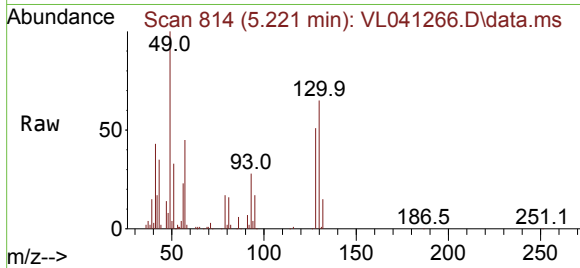




#25  
Ethyl Acetate  
Concen: 0.331 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.010 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

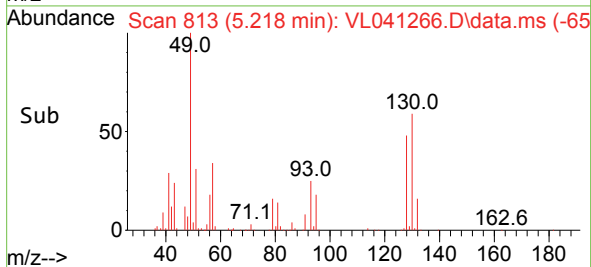
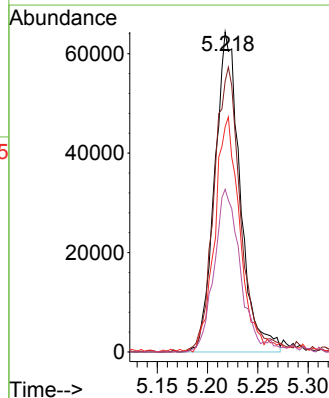
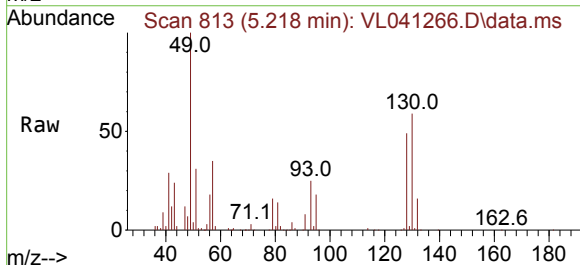
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

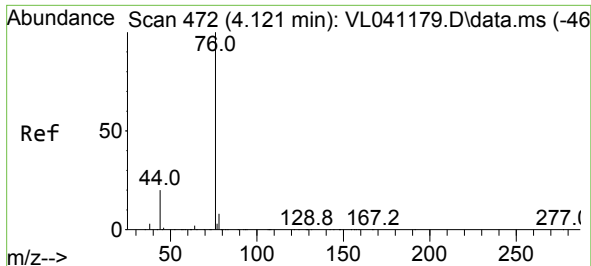
|             |               |
|-------------|---------------|
| Tgt Ion: 43 | Resp: 80499   |
| Ion Ratio   | Lower Upper   |
| 43          | 100           |
| 45          | 0.1 8.2 12.2# |
| 61          | 0.0 7.7 11.5# |
| 70          | 1.9 5.8 8.6#  |



#26  
Hexane  
Concen: 1.045 ppbv  
RT: 5.218 min Scan# 813  
Delta R.T. -0.003 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

|             |                   |
|-------------|-------------------|
| Tgt Ion: 57 | Resp: 113526      |
| Ion Ratio   | Lower Upper       |
| 57          | 100               |
| 41          | 94.5 75.8 113.8   |
| 43          | 73.2 187.0 280.4# |
| 56          | 54.1 42.7 64.1    |





#27

Carbon Disulfide

Concen: 0.038 ppbv

RT: 4.134 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041266.D

Acq: 21 May 2024 15:32

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

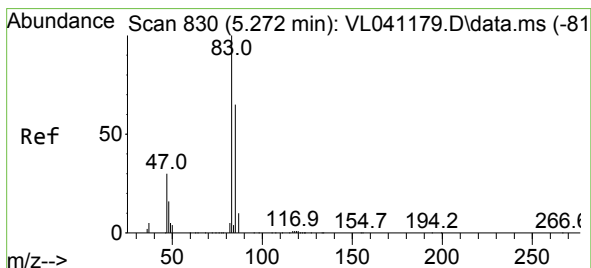
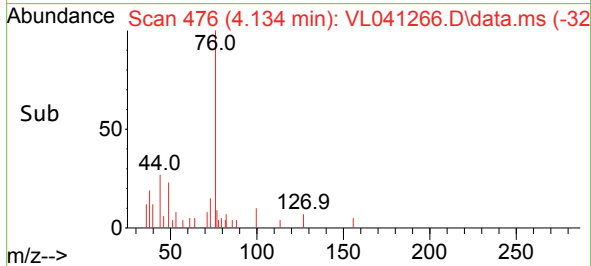
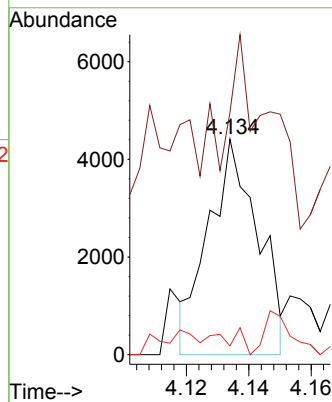
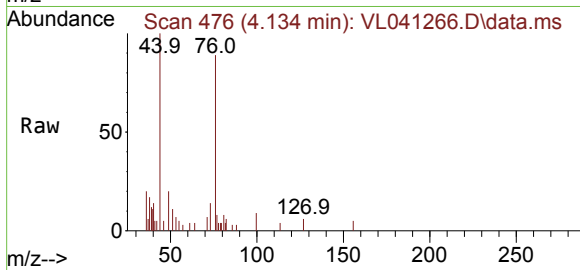
Tgt Ion: 76 Resp: 4859

Ion Ratio Lower Upper

76 100

44 74.4 16.3 24.5#

78 0.0 7.3 10.9#



#29

Chloroform

Concen: 0.163 ppbv

RT: 5.279 min Scan# 832

Delta R.T. -0.003 min

Lab File: VL041266.D

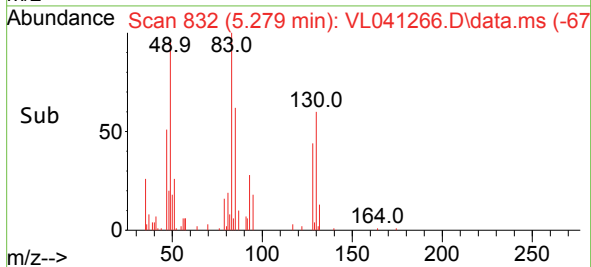
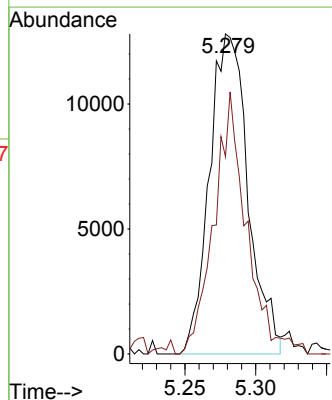
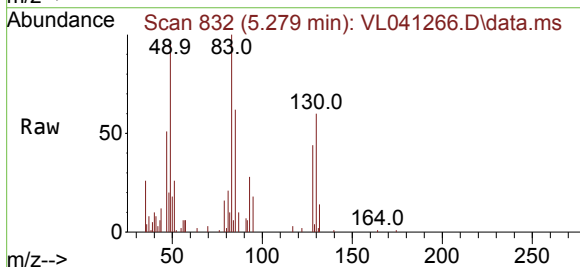
Acq: 21 May 2024 15:32

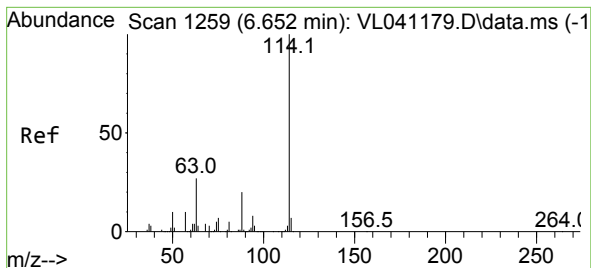
Tgt Ion: 83 Resp: 24362

Ion Ratio Lower Upper

83 100

85 61.6 51.7 77.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL041266.D

Acq: 21 May 2024 15:32

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

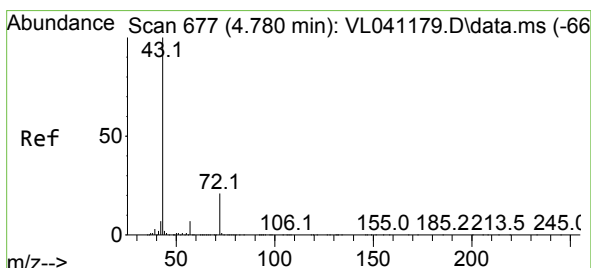
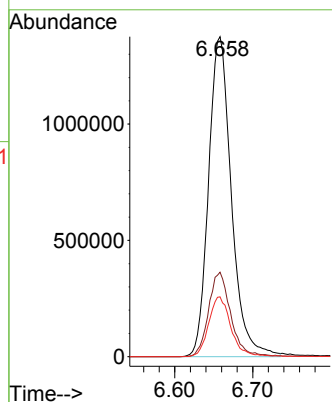
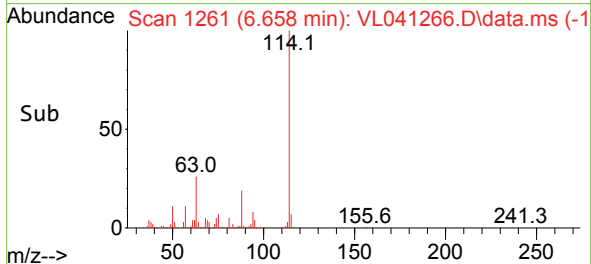
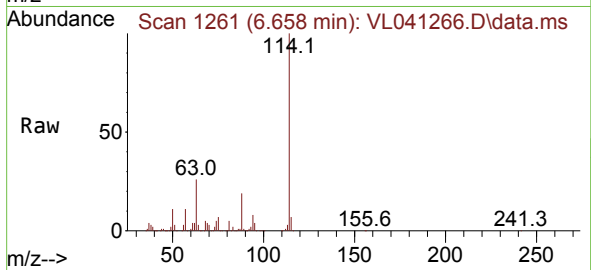
Tgt Ion:114 Resp: 2799870

Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.6

88 18.3 15.2 22.8



#34

2-Butanone

Concen: 0.874 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.013 min

Lab File: VL041266.D

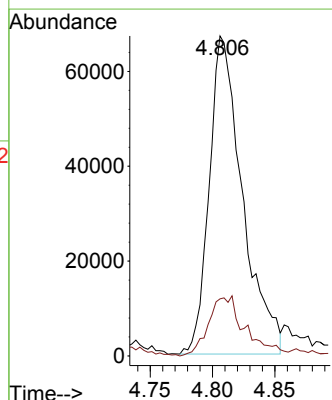
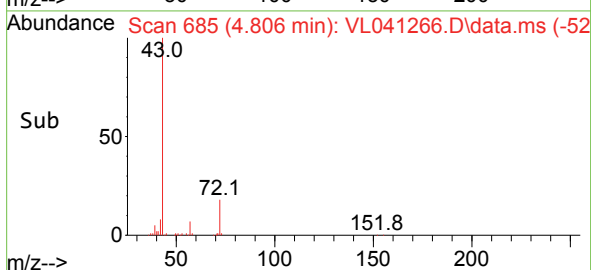
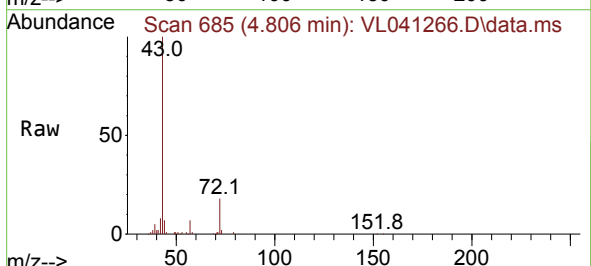
Acq: 21 May 2024 15:32

Tgt Ion: 43 Resp: 124537

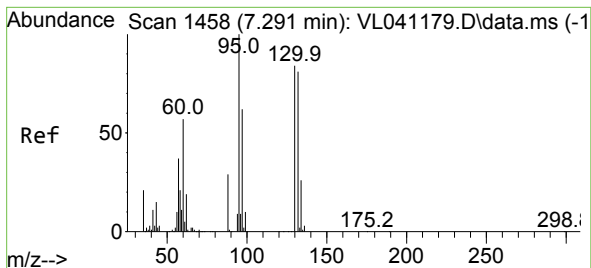
Ion Ratio Lower Upper

43 100

72 22.3 17.3 25.9







#38

Trichloroethene

Concen: 0.545 ppbv

RT: 7.298 min Scan# 1458

Delta R.T. 0.006 min

Lab File: VL041266.D

Acq: 21 May 2024 15:32

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

Tgt Ion:130 Resp: 47681

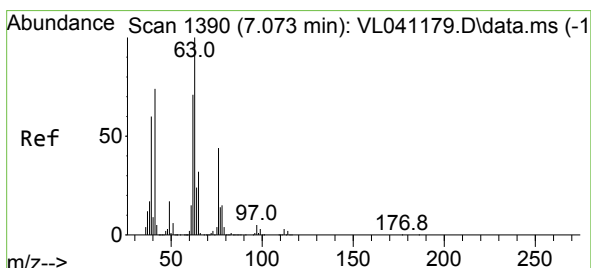
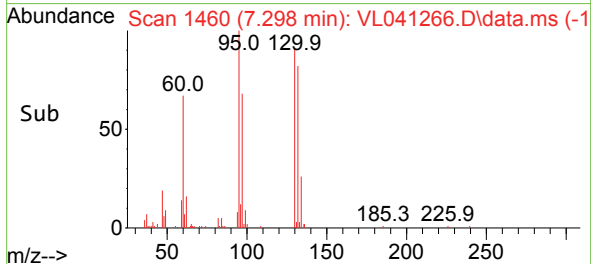
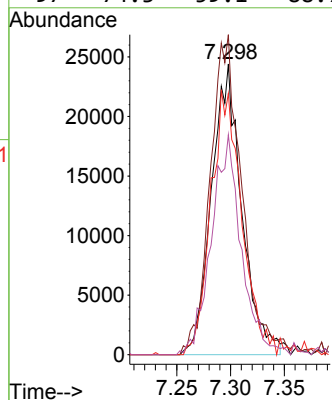
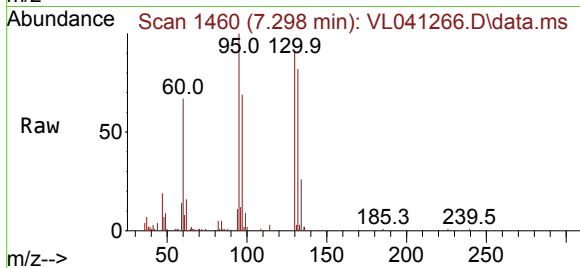
Ion Ratio Lower Upper

130 100

95 110.1 95.0 142.6

132 89.8 77.0 115.4

97 74.3 59.1 88.7



#39

1,2-Dichloropropane

Concen: 0.094 ppbv

RT: 6.703 min Scan# 1275

Delta R.T. -0.373 min

Lab File: VL041266.D

Acq: 21 May 2024 15:32

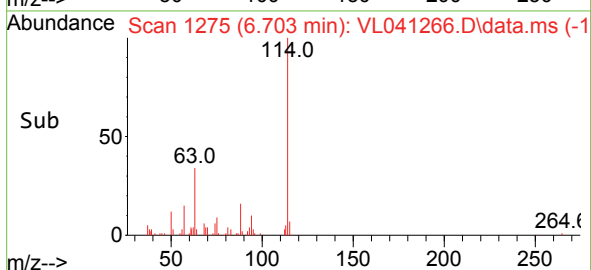
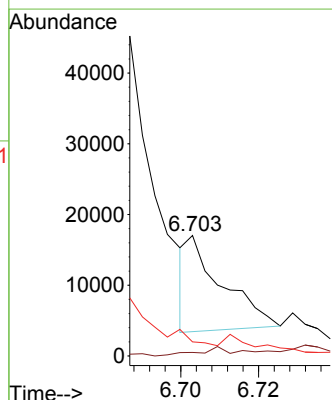
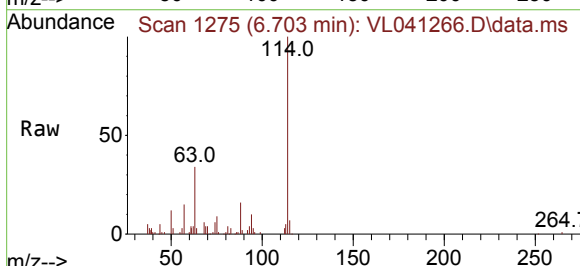
Tgt Ion: 63 Resp: 8503

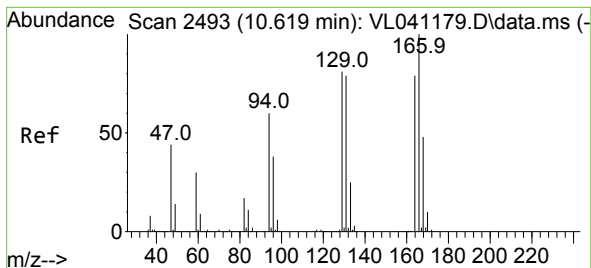
Ion Ratio Lower Upper

63 100

41 0.2 59.4 89.0#

62 6.8 56.8 85.2#





#52

Tetrachloroethene

Concen: 7.694 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. 0.003 min

Lab File: VL041266.D

Acq: 21 May 2024 15:32

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

Tgt Ion:164 Resp: 635362

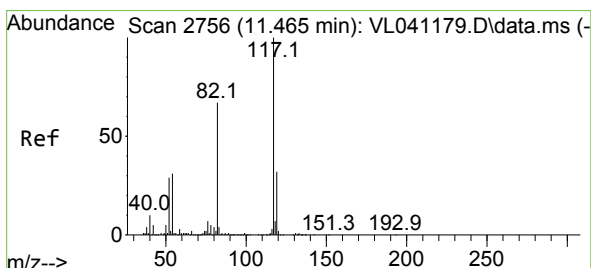
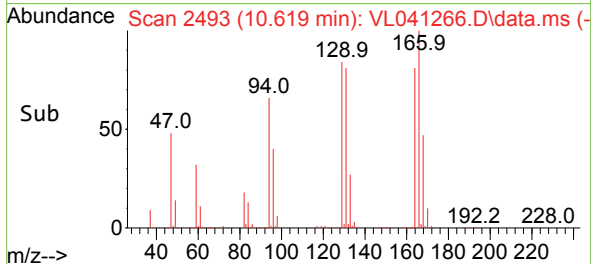
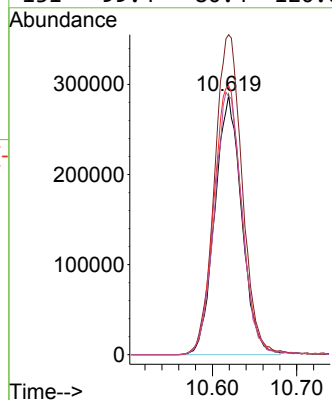
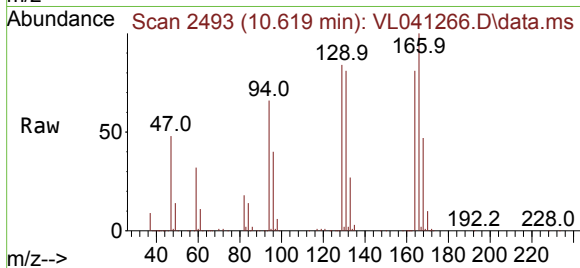
Ion Ratio Lower Upper

164 100

166 123.4 101.1 151.7

129 103.7 81.7 122.5

131 99.4 80.4 120.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2757

Delta R.T. 0.003 min

Lab File: VL041266.D

Acq: 21 May 2024 15:32

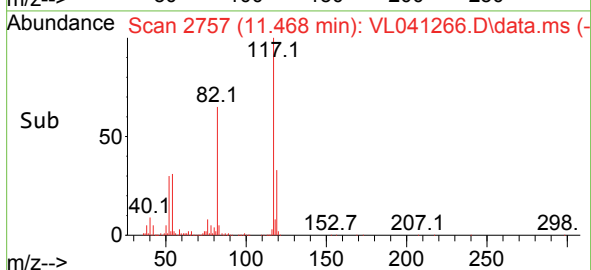
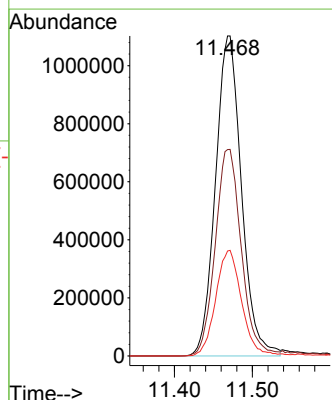
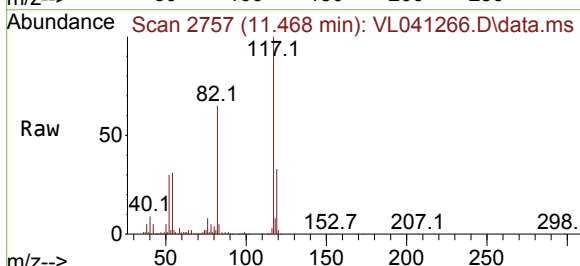
Tgt Ion:117 Resp: 2552936

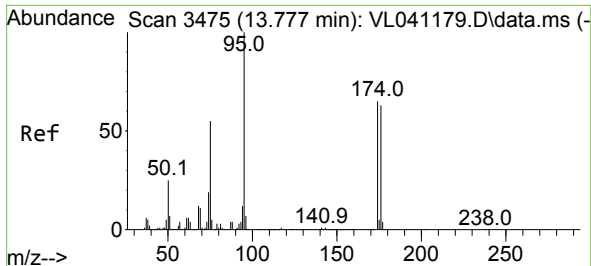
Ion Ratio Lower Upper

117 100

82 66.5 53.6 80.4

119 33.5 27.2 40.8

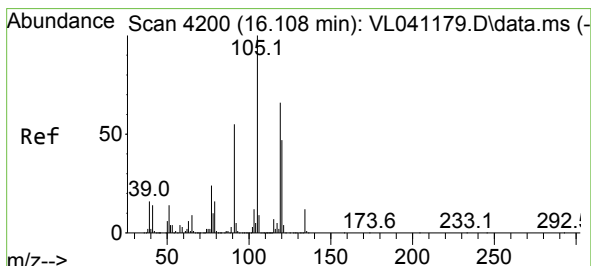
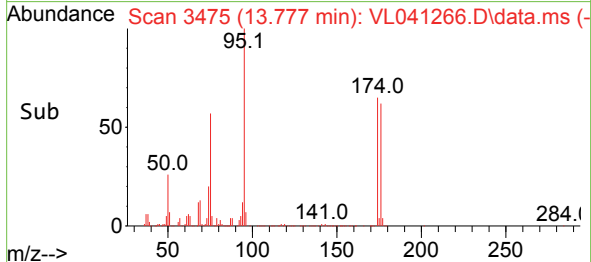
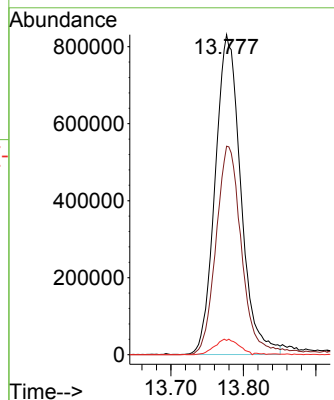
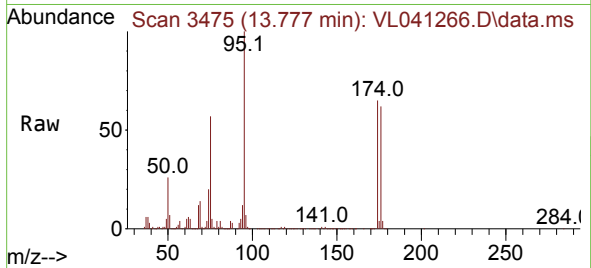




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.593 ppbv  
RT: 13.777 min Scan# 3475  
Delta R.T. 0.003 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

Tgt Ion: 95 Resp: 2041660  
Ion Ratio Lower Upper  
95 100  
174 67.1 53.6 80.4  
175 4.9 4.2 6.4



#74  
1,2,4-Trimethylbenzene  
Concen: 0.045 ppbv  
RT: 16.108 min Scan# 4200  
Delta R.T. 0.003 min  
Lab File: VL041266.D  
Acq: 21 May 2024 15:32

Tgt Ion: 105 Resp: 13802  
Ion Ratio Lower Upper  
105 100  
120 32.7 37.8 56.6#  
91 4.9 44.3 66.5#  
77 16.9 19.0 28.4#

