

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL010923\  
 Data File : VL040087.D  
 Acq On : 10 Jan 2023 8:22  
 Operator : SY/MD  
 Sample : 01074-02DL 5X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AP-113DL

Quant Time: Jan 11 01:10:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Jan 10 00:22:08 2023  
 Response via : Initial Calibration

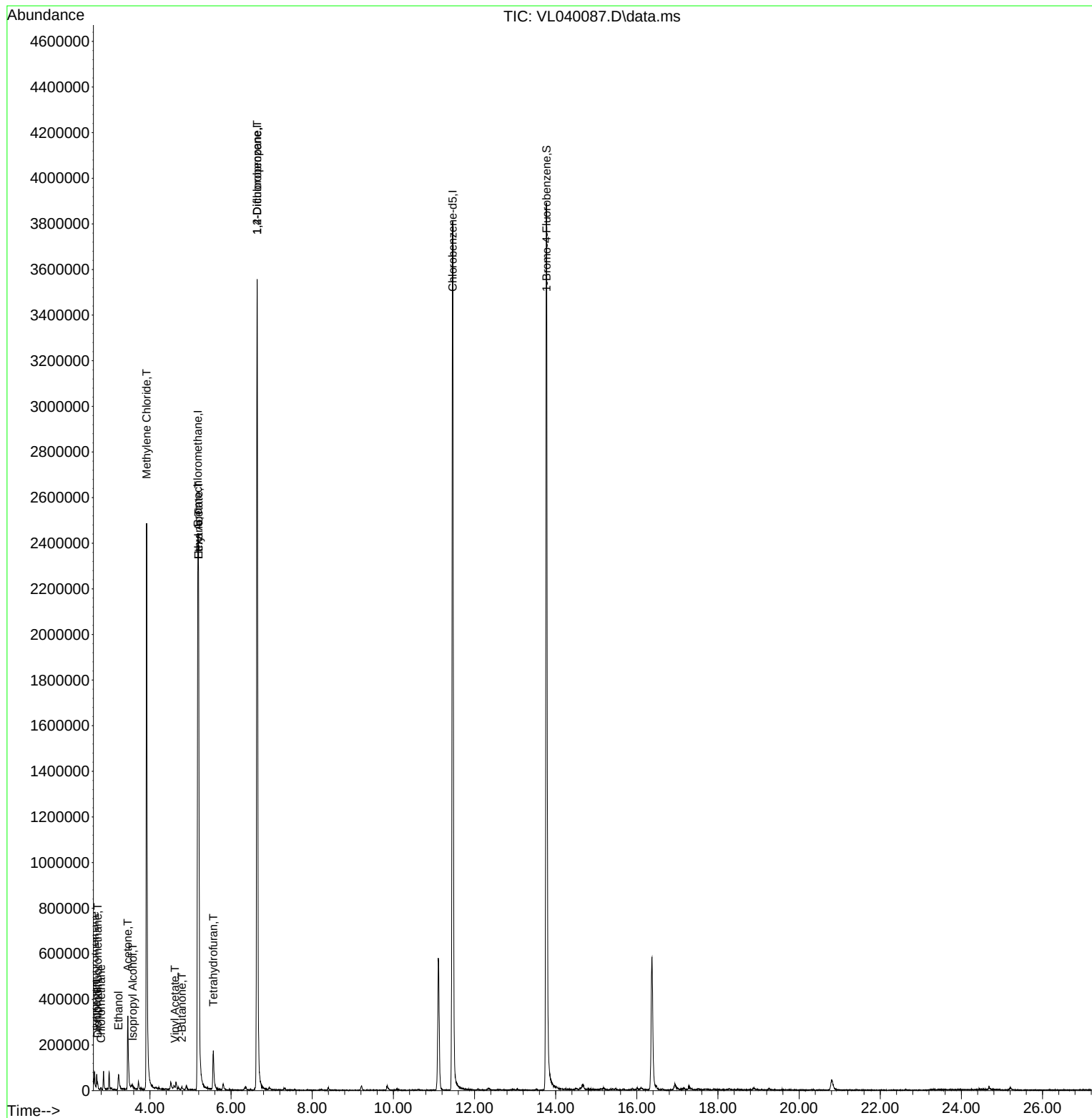
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Bromochloromethane       | 5.179  | 49    | 987810   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.642  | 114   | 2574323  | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        | 11.462 | 117   | 2368973  | 10.000   | ppbv       | -0.01    |
| System Monitoring Compounds |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 1945733  | 10.752   | ppbv       | -0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 107.500% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  | 2.713  | 85    | 14635    | 0.079    | ppbv       | 94       |
| 3) Chlorodifluoromethane    | 2.636  | 51    | 41984    | 0.288    | ppbv #     | 67       |
| 4) Chloromethane            | 2.796  | 50    | 5796     | 0.063    | ppbv       | 98       |
| 9) Propene                  | 2.684  | 41    | 12570    | 0.203    | ppbv       | 94       |
| 13) Ethanol                 | 3.227  | 45    | 73801    | 12.678   | ppbv       | 91       |
| 15) Acetone                 | 3.455  | 43    | 337709   | 2.210    | ppbv       | 99       |
| 19) Isopropyl Alcohol       | 3.574  | 45    | 12546    | 0.167    | ppbv #     | 94       |
| 20) Methylene Chloride      | 3.918  | 84    | 877129   | 13.504   | ppbv       | 98       |
| 23) Vinyl Acetate           | 4.616  | 43    | 1638     | 0.034    | ppbv #     | 54       |
| 25) Ethyl Acetate           | 5.201  | 43    | 469211   | 1.773    | ppbv #     | 76       |
| 26) Hexane                  | 5.201  | 57    | 690822   | 6.211    | ppbv #     | 36       |
| 34) 2-Butanone              | 4.787  | 43    | 5122     | 0.037    | ppbv #     | 1        |
| 39) 1,2-Dichloropropane     | 6.642  | 63    | 664073   | 7.706    | ppbv #     | 23       |
| 41) Tetrahydrofuran         | 5.561  | 42    | 85045    | 0.976    | ppbv       | 98       |

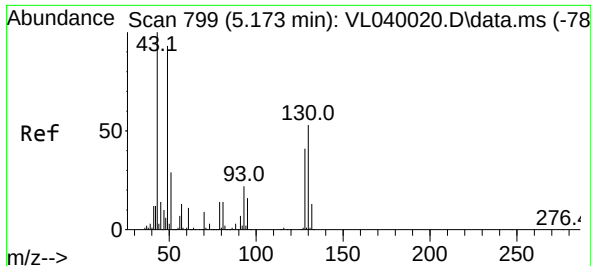
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 10 00:22:08 2023  
Response via : Initial Calibration

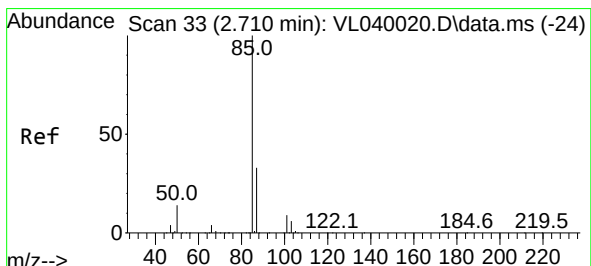
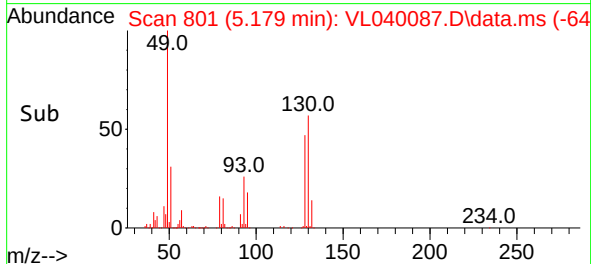
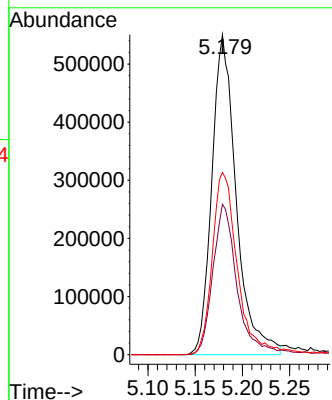
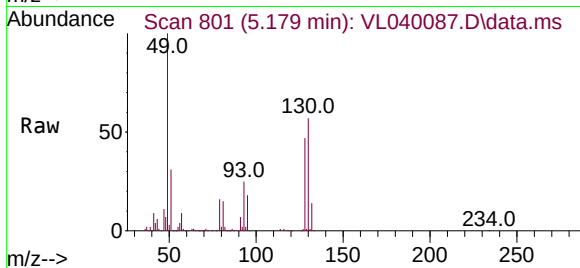




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.179 min Scan# 801  
 Delta R.T. -0.006 min  
 Lab File: VL040087.D  
 Acq: 10 Jan 2023 8:22

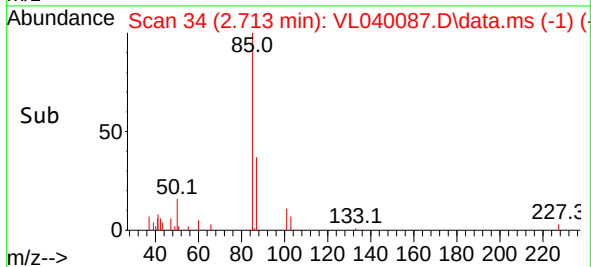
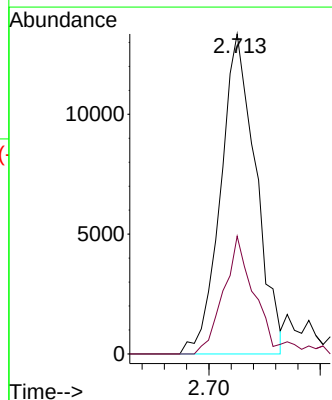
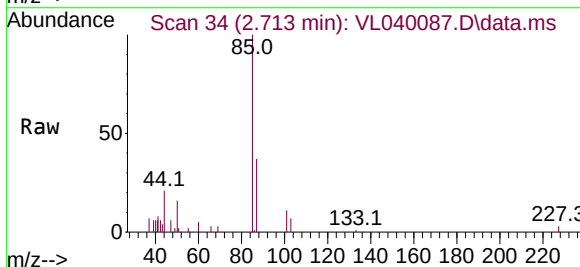
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AP-113DL

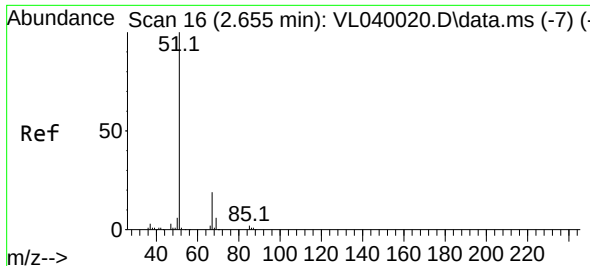
Tgt Ion: 49 Resp: 987810  
 Ion Ratio Lower Upper  
 49 100  
 128 48.3 22.4 67.3  
 130 59.3 28.9 86.8



#2  
 Dichlorodifluoromethane  
 Concen: 0.079 ppbv  
 RT: 2.713 min Scan# 34  
 Delta R.T. -0.000 min  
 Lab File: VL040087.D  
 Acq: 10 Jan 2023 8:22

Tgt Ion: 85 Resp: 14635  
 Ion Ratio Lower Upper  
 85 100  
 87 36.8 26.6 40.0

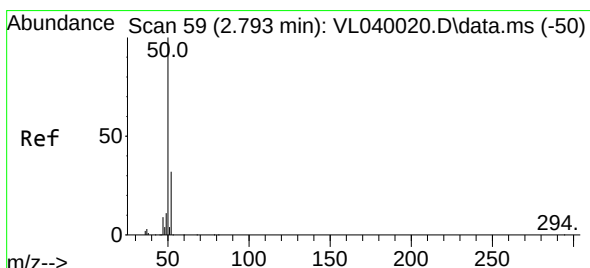
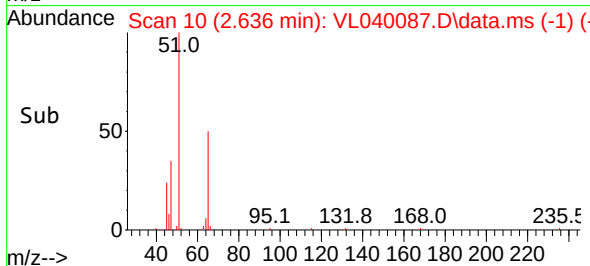
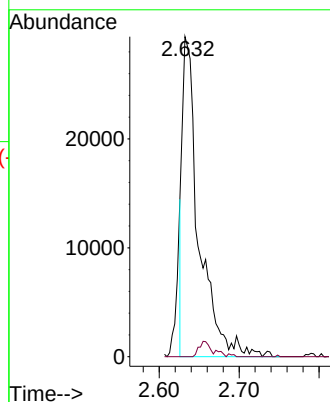
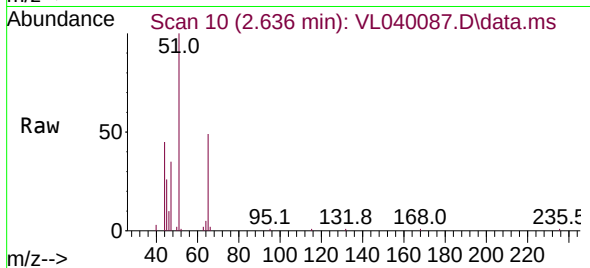




#3  
Chlorodifluoromethane  
Concen: 0.288 ppbv  
RT: 2.636 min Scan# 10  
Delta R.T. -0.023 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

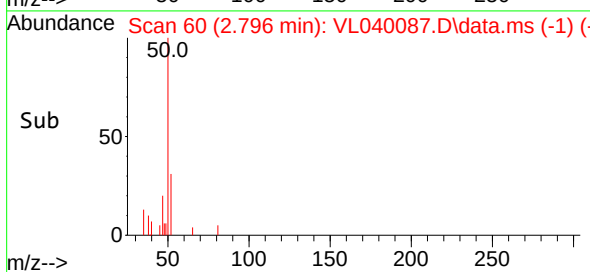
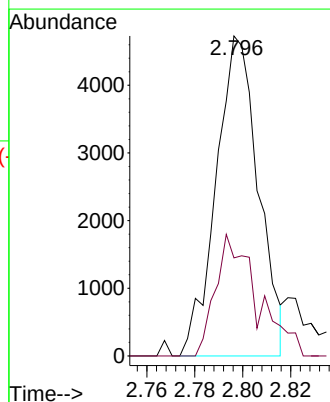
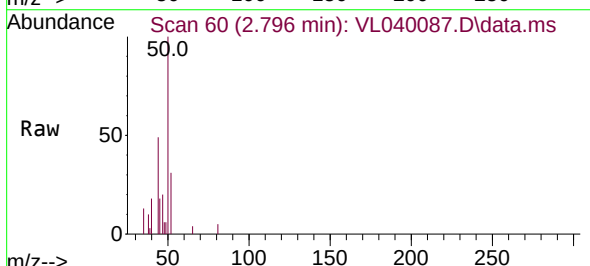
Instrument :  
MSVOA\_L  
ClientSampleId :  
AP-113DL

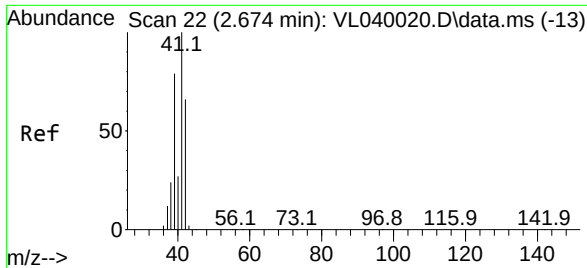
Tgt Ion: 51 Resp: 41984  
Ion Ratio Lower Upper  
51 100  
67 4.2 15.3 22.9#



#4  
Chloromethane  
Concen: 0.063 ppbv  
RT: 2.796 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

Tgt Ion: 50 Resp: 5796  
Ion Ratio Lower Upper  
50 100  
52 30.6 25.5 38.3

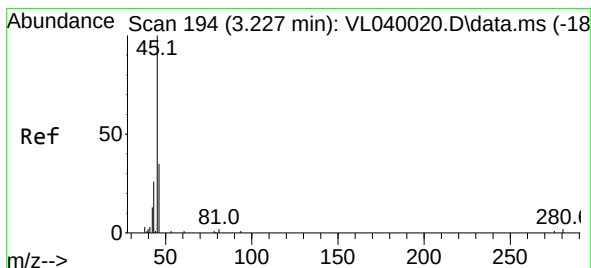
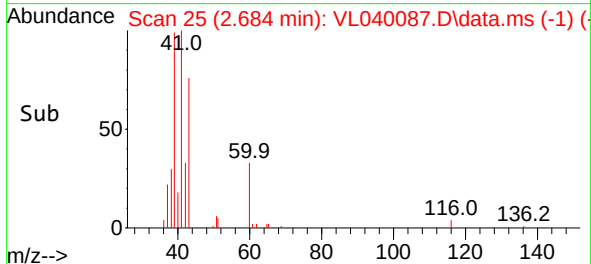
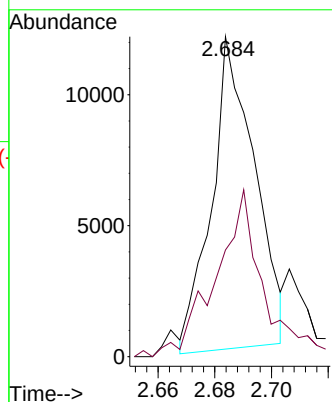
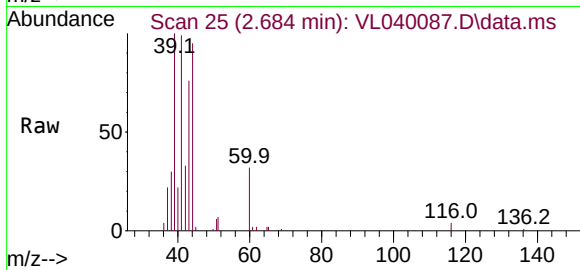




#9  
 Propene  
 Concen: 0.203 ppbv  
 RT: 2.684 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VL040087.D  
 Acq: 10 Jan 2023 8:22

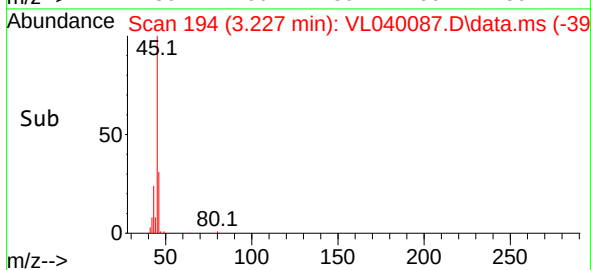
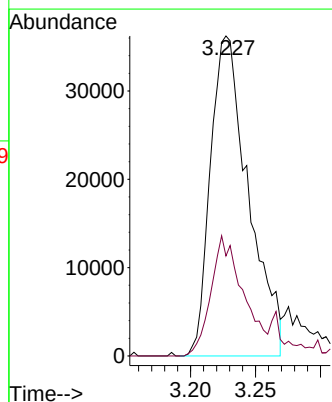
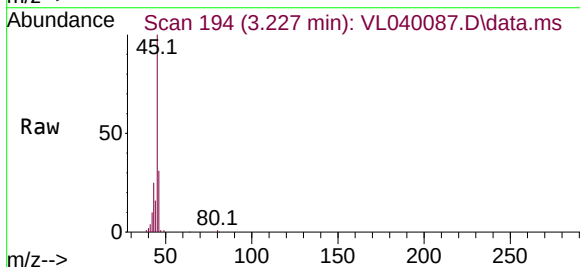
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AP-113DL

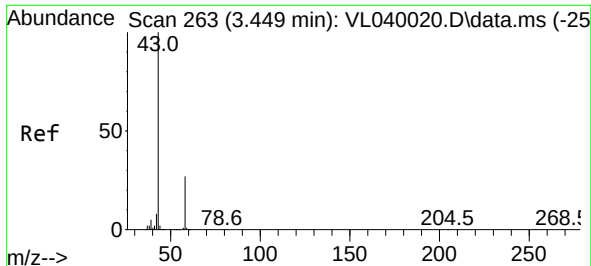
Tgt Ion: 41 Resp: 12570  
 Ion Ratio Lower Upper  
 41 100  
 42 63.6 54.8 82.2



#13  
 Ethanol  
 Concen: 12.678 ppbv  
 RT: 3.227 min Scan# 194  
 Delta R.T. -0.000 min  
 Lab File: VL040087.D  
 Acq: 10 Jan 2023 8:22

Tgt Ion: 45 Resp: 73801  
 Ion Ratio Lower Upper  
 45 100  
 46 39.6 13.7 54.7

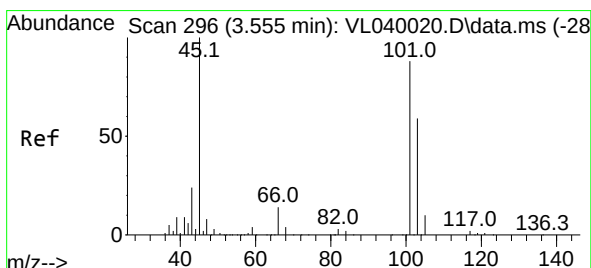
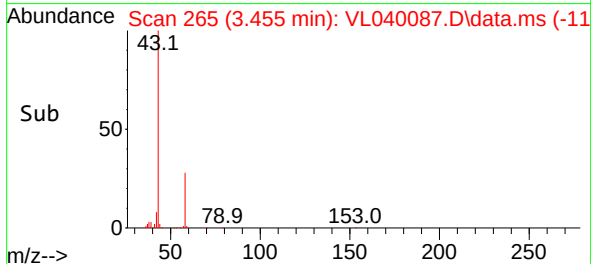
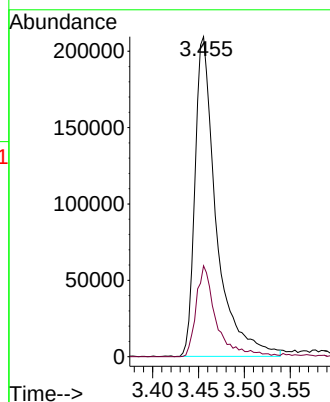
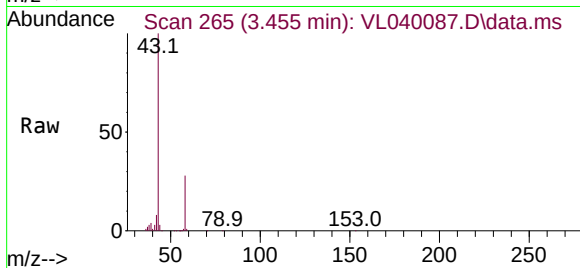




#15  
Acetone  
Concen: 2.210 ppbv  
RT: 3.455 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

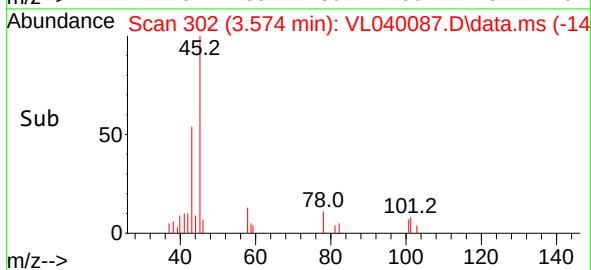
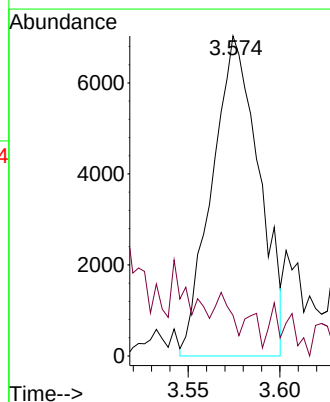
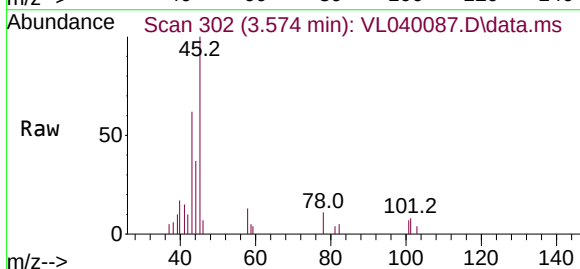
Instrument :  
MSVOA\_L  
ClientSampleId :  
AP-113DL

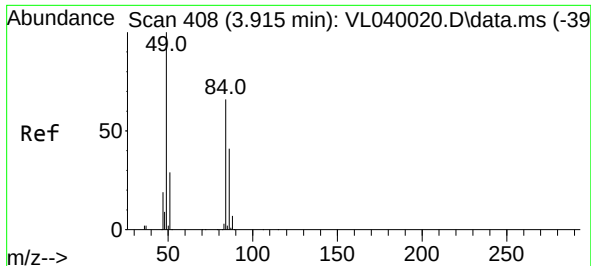
Tgt Ion: 43 Resp: 337709  
Ion Ratio Lower Upper  
43 100  
58 26.8 21.8 32.8



#19  
Isopropyl Alcohol  
Concen: 0.167 ppbv  
RT: 3.574 min Scan# 302  
Delta R.T. 0.013 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

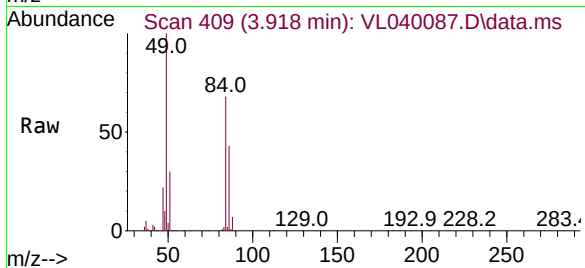
Tgt Ion: 45 Resp: 12546  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.7 2.5#



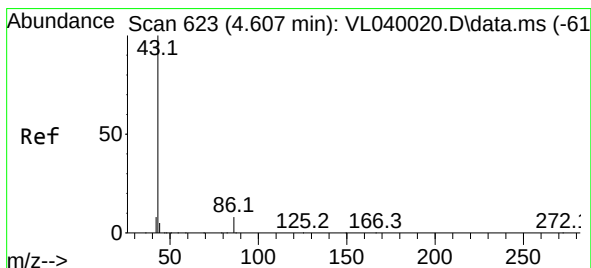
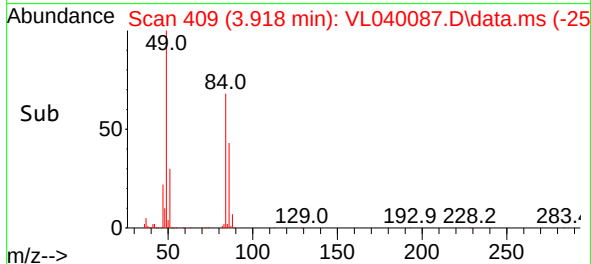
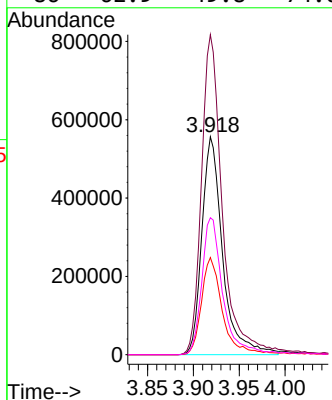


#20  
Methylene Chloride  
Concen: 13.504 ppbv  
RT: 3.918 min Scan# 408  
Delta R.T. -0.003 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
AP-113DL

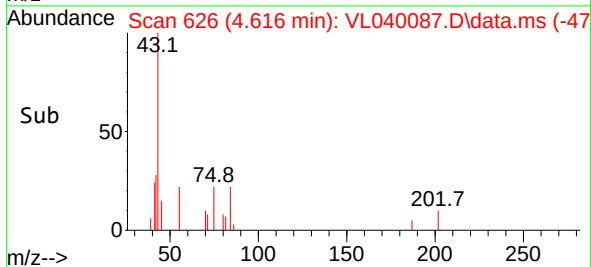
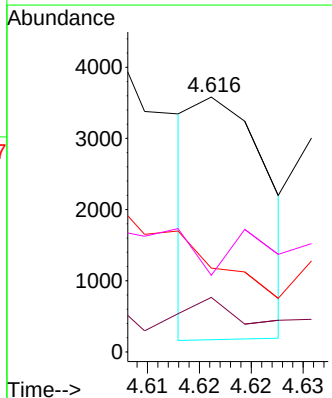
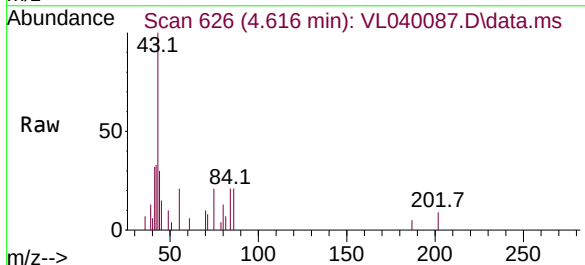


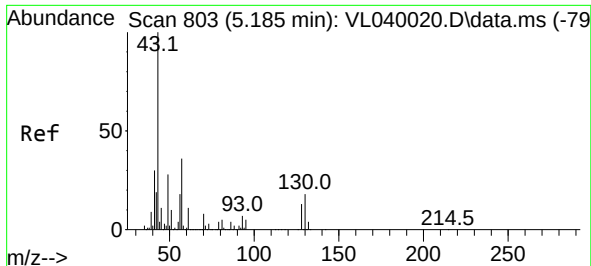
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 877129 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 146.9 | 120.5 | 180.7  |
| 51       | 44.6  | 35.2  | 52.8   |
| 86       | 62.9  | 49.8  | 74.6   |



#23  
Vinyl Acetate  
Concen: 0.034 ppbv  
RT: 4.616 min Scan# 626  
Delta R.T. -0.000 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1638  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 23.2  | 5.3   | 7.9#  |
| 42       | 30.8  | 7.4   | 11.0# |
| 44       | 0.0   | 3.8   | 5.6#  |

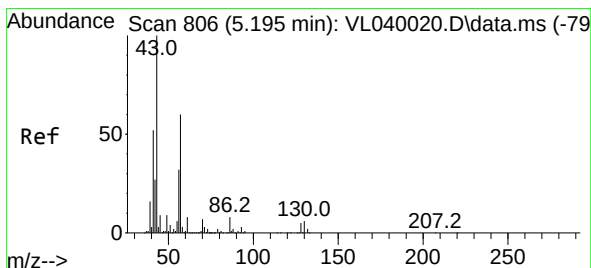
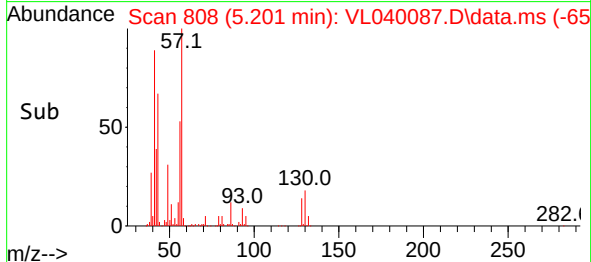
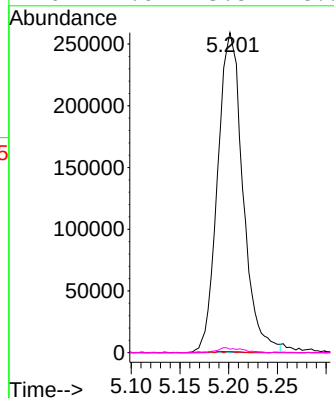
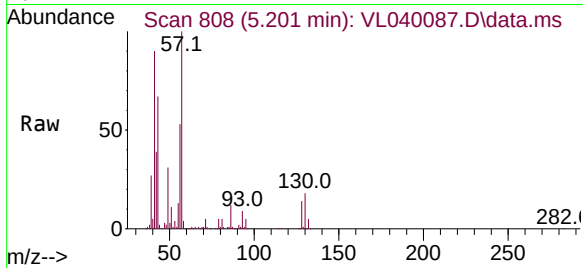




#25  
Ethyl Acetate  
Concen: 1.773 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. 0.003 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

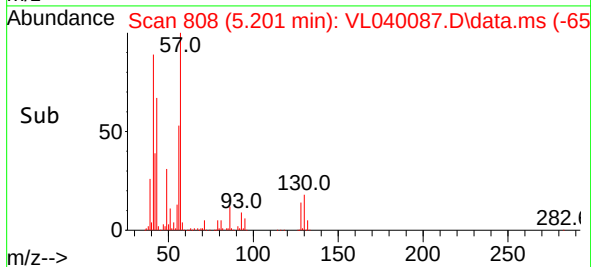
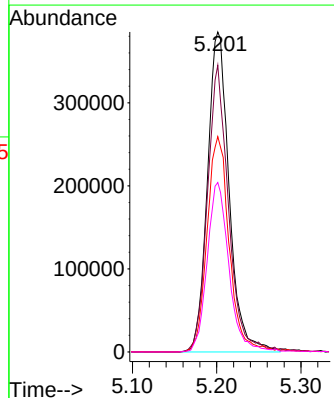
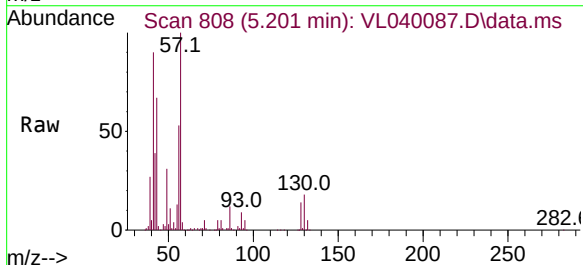
Instrument :  
MSVOA\_1  
ClientSampleId :  
AP-113DL

Tgt Ion: 43 Resp: 469211  
Ion Ratio Lower Upper  
43 100  
45 0.6 8.6 12.8#  
61 0.3 8.5 12.7#  
70 1.6 5.8 8.8#

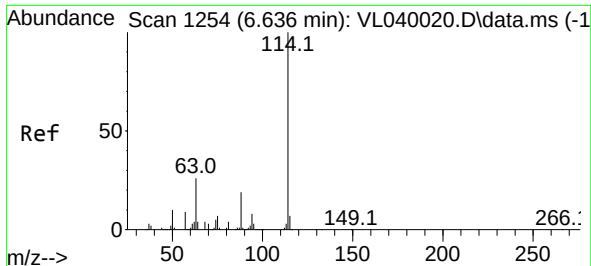


#26  
Hexane  
Concen: 6.211 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. -0.006 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

Tgt Ion: 57 Resp: 690822  
Ion Ratio Lower Upper  
57 100  
41 87.7 72.1 108.1  
43 69.4 192.1 288.1#  
56 53.6 42.5 63.7







#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040087.D

Acq: 10 Jan 2023 8:22

Instrument :

MSVOA\_L

ClientSampleId :

AP-113DL

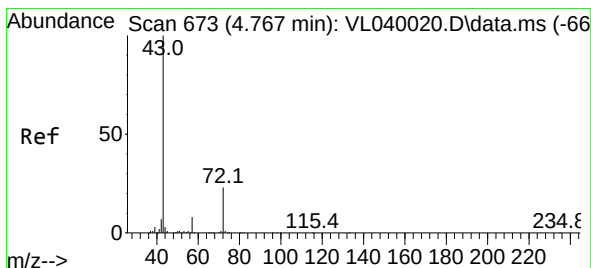
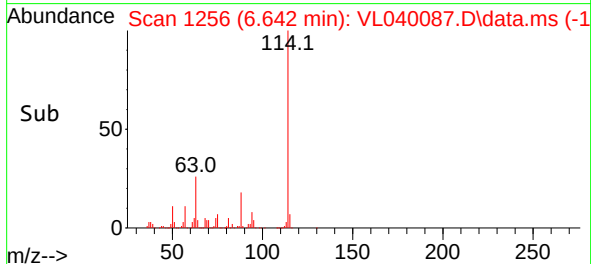
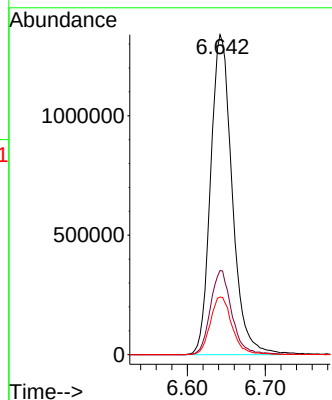
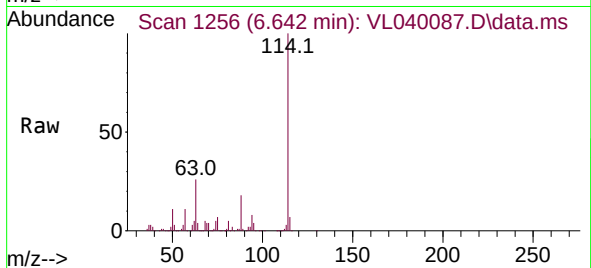
Tgt Ion:114 Resp: 2574323

Ion Ratio Lower Upper

114 100

63 26.4 20.2 30.2

88 18.4 14.6 21.8



#34

2-Butanone

Concen: 0.037 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.010 min

Lab File: VL040087.D

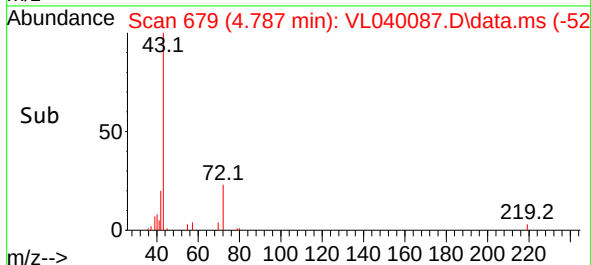
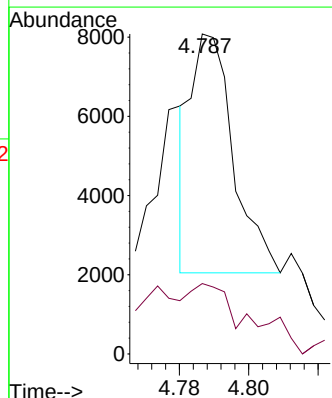
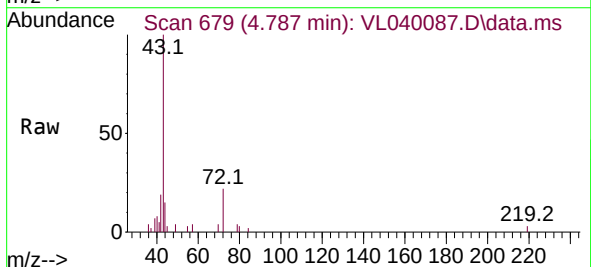
Acq: 10 Jan 2023 8:22

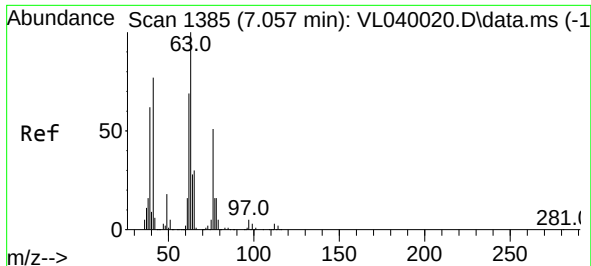
Tgt Ion: 43 Resp: 5122

Ion Ratio Lower Upper

43 100

72 78.1 18.0 27.0#





#39

1,2-Dichloropropane

Concen: 7.706 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL040087.D

Acq: 10 Jan 2023 8:22

Instrument :

MSVOA\_L

ClientSampleId :

AP-113DL

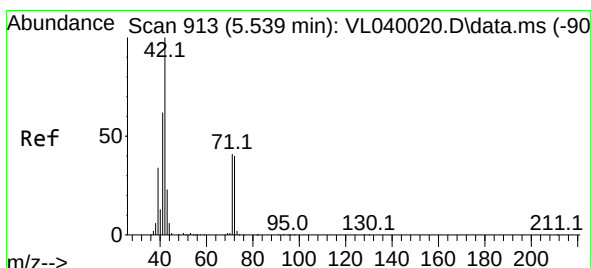
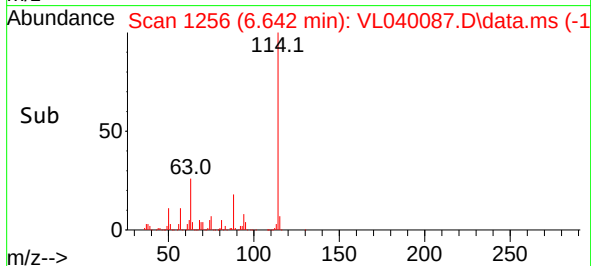
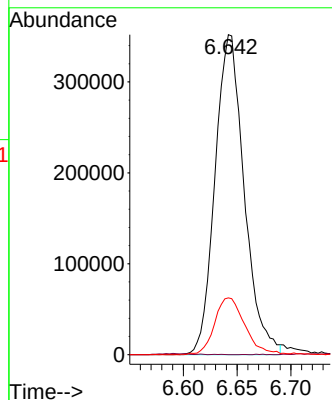
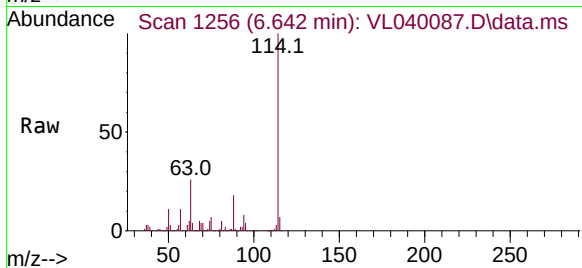
Tgt Ion: 63 Resp: 664073

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 17.7 55.4 83.2#



#41

Tetrahydrofuran

Concen: 0.976 ppbv

RT: 5.561 min Scan# 920

Delta R.T. 0.010 min

Lab File: VL040087.D

Acq: 10 Jan 2023 8:22

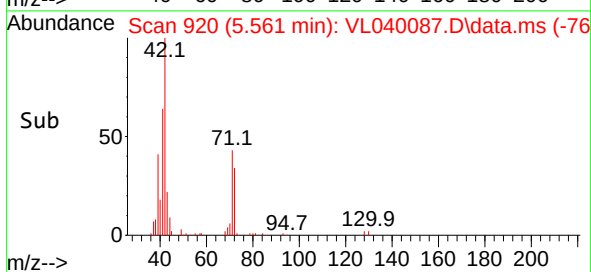
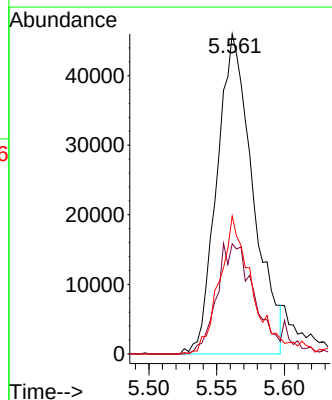
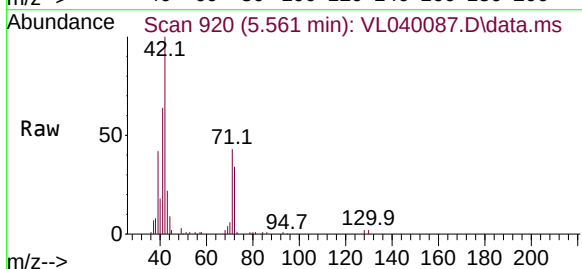
Tgt Ion: 42 Resp: 85045

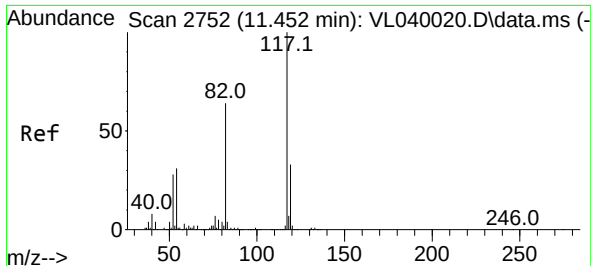
Ion Ratio Lower Upper

42 100

72 39.5 32.9 49.3

71 41.2 32.2 48.2

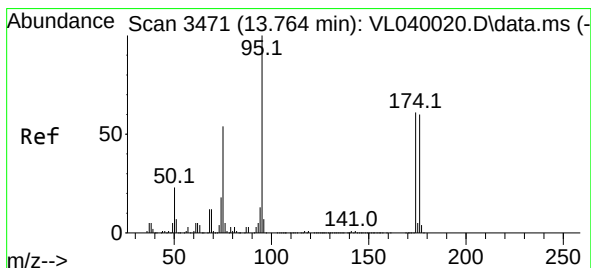
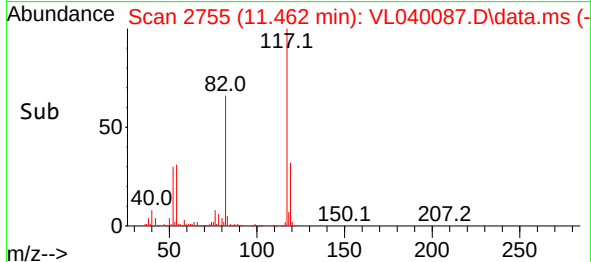
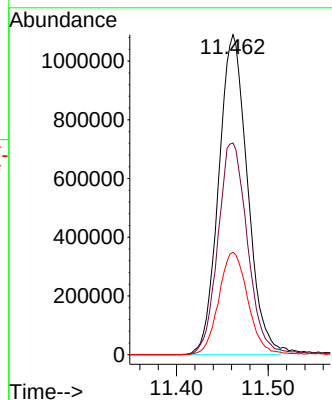
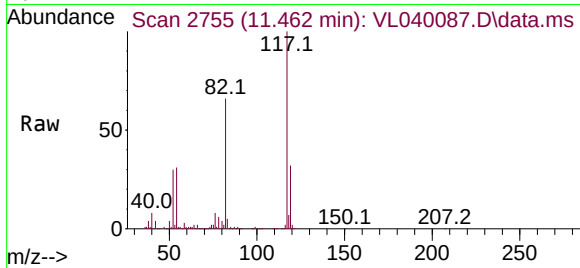




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.462 min Scan# 21  
Delta R.T. -0.013 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

Instrument :  
MSVOA\_1  
ClientSampleId :  
AP-113DL

Tgt Ion:117 Resp: 2368973  
Ion Ratio Lower Upper  
117 100  
82 69.1 51.2 76.8  
119 32.9 23.2 34.8



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.752 ppbv  
RT: 13.773 min Scan# 3474  
Delta R.T. -0.013 min  
Lab File: VL040087.D  
Acq: 10 Jan 2023 8:22

Tgt Ion: 95 Resp: 1945733  
Ion Ratio Lower Upper  
95 100  
174 59.8 48.6 73.0  
175 4.2 3.4 5.2

