

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020924\  
 Data File : VL041064.D  
 Acq On : 9 Feb 2024 19:04  
 Operator : SY/MD  
 Sample : P1420-01DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA2RDL

Quant Time: Feb 12 00:49:56 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Feb 12 00:40:04 2024  
 Response via : Initial Calibration

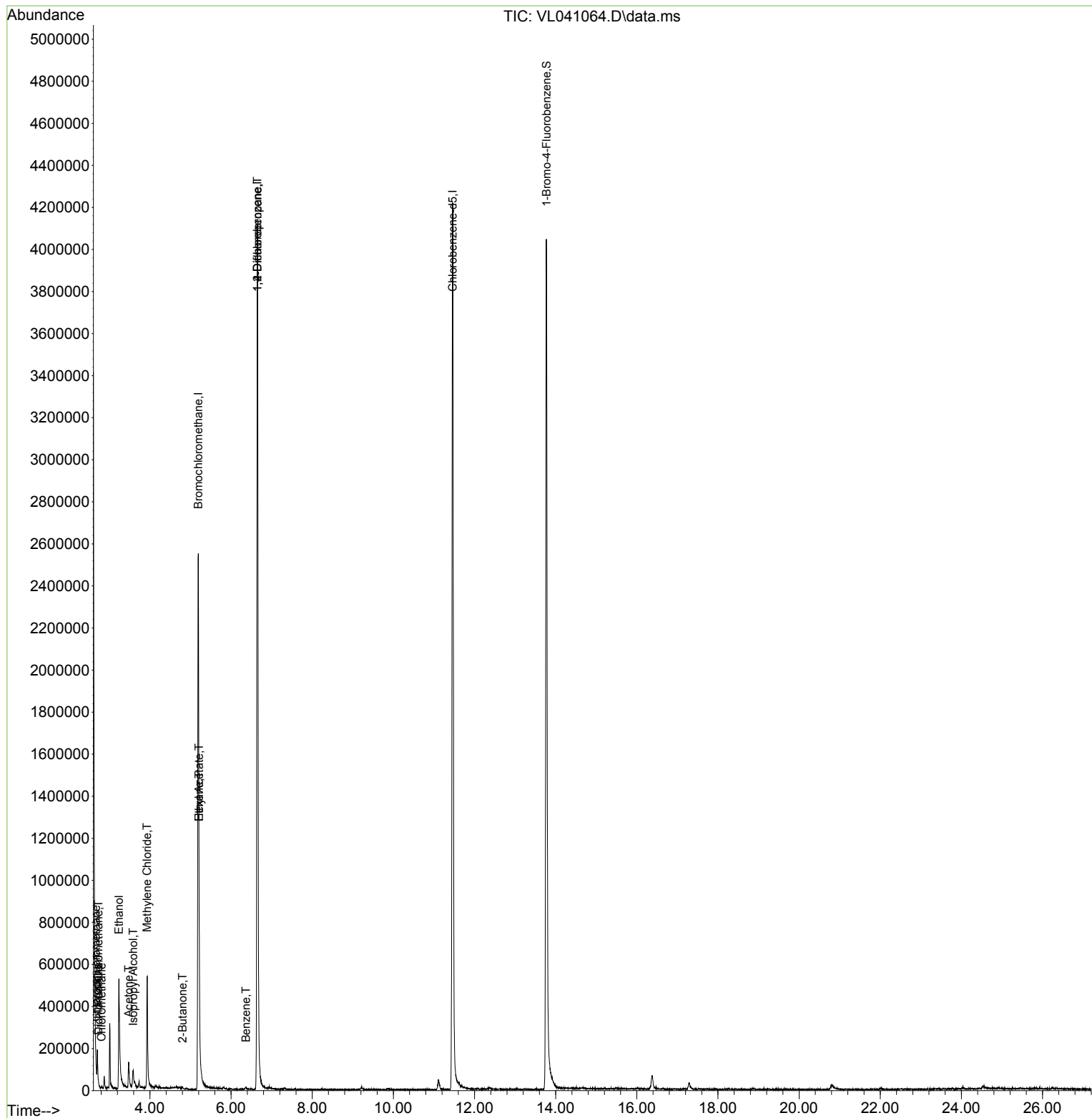
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Bromochloromethane       | 5.192  | 49    | 1228351  | 10.000   | ppbv       | 0.02     |
| 33) 1,4-Difluorobenzene     | 6.648  | 114   | 3246730  | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        | 11.462 | 117   | 2820933  | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2142095  | 10.054   | ppbv       | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 100.500% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  | 2.729  | 85    | 11833    | 0.044    | ppbv       | 90       |
| 3) Chlorodifluoromethane    | 2.674  | 51    | 8160     | 0.039    | ppbv       | 95       |
| 4) Chloromethane            | 2.809  | 50    | 4237     | 0.055    | ppbv #     | 59       |
| 9) Propene                  | 2.706  | 41    | 30460    | 0.449    | ppbv #     | 64       |
| 13) Ethanol                 | 3.237  | 45    | 625301   | 38.716   | ppbv       | 93       |
| 15) Acetone                 | 3.475  | 43    | 114857   | 0.731    | ppbv       | 100      |
| 19) Isopropyl Alcohol       | 3.587  | 45    | 48560    | 0.534    | ppbv #     | 82       |
| 20) Methylene Chloride      | 3.931  | 84    | 173598   | 2.872    | ppbv       | 91       |
| 25) Ethyl Acetate           | 5.211  | 43    | 103529   | 0.363    | ppbv #     | 78       |
| 26) Hexane                  | 5.211  | 57    | 142358   | 1.173    | ppbv #     | 39       |
| 34) 2-Butanone              | 4.803  | 43    | 4935     | 0.032    | ppbv #     | 76       |
| 36) Benzene                 | 6.369  | 78    | 6564     | 0.024    | ppbv       | 92       |
| 39) 1,2-Dichloropropane     | 6.648  | 63    | 777656   | 7.362    | ppbv #     | 23       |
| -----                       |        |       |          |          |            |          |

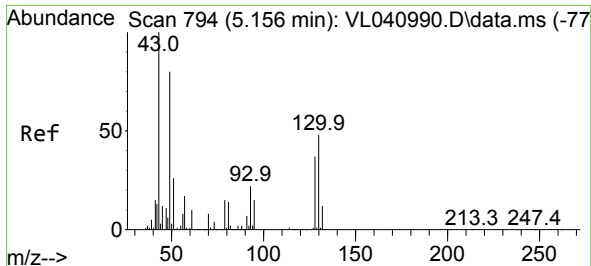
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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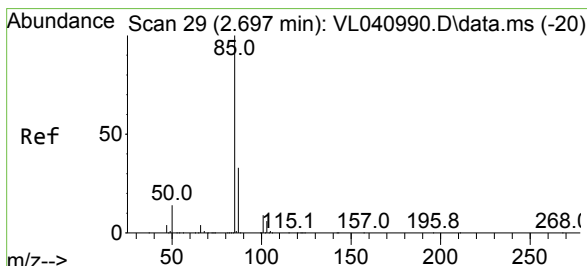
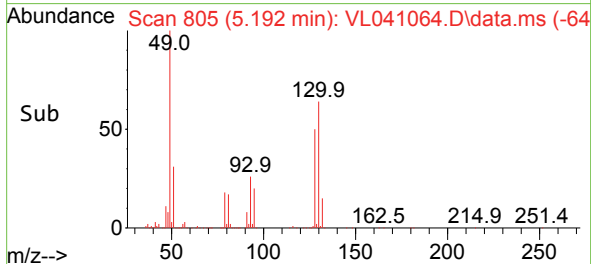
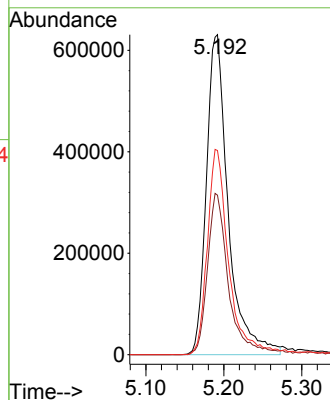
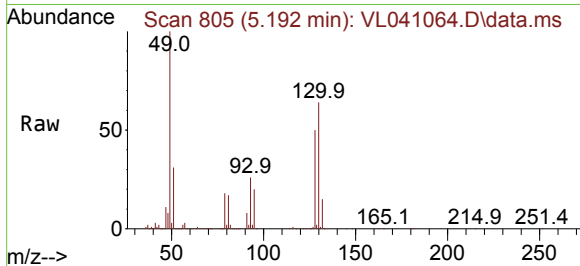




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.192 min Scan# 80  
 Delta R.T. 0.016 min  
 Lab File: VL041064.D  
 Acq: 9 Feb 2024 19:04

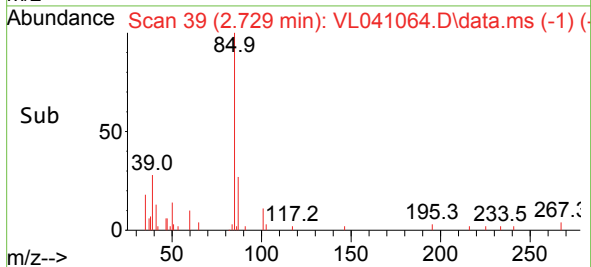
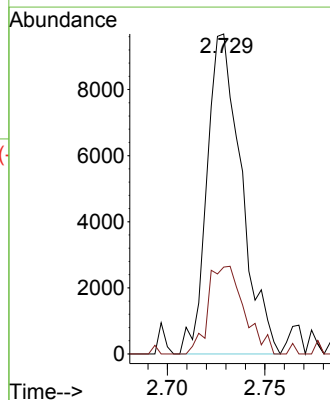
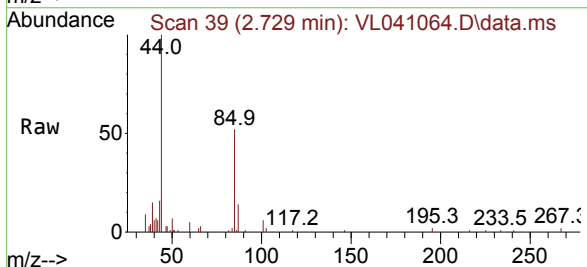
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
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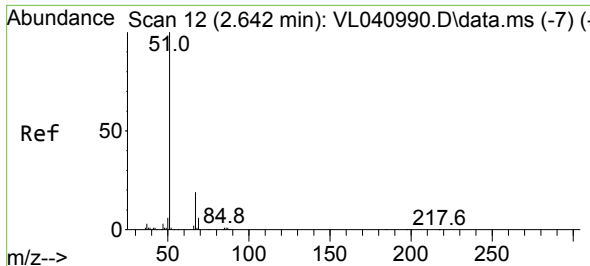
Tgt Ion: 49 Resp: 1228351  
 Ion Ratio Lower Upper  
 49 100  
 128 49.9 23.9 71.7  
 130 64.6 31.1 93.5



#2  
 Dichlorodifluoromethane  
 Concen: 0.044 ppbv  
 RT: 2.729 min Scan# 39  
 Delta R.T. 0.013 min  
 Lab File: VL041064.D  
 Acq: 9 Feb 2024 19:04

Tgt Ion: 85 Resp: 11833  
 Ion Ratio Lower Upper  
 85 100  
 87 27.2 26.3 39.5

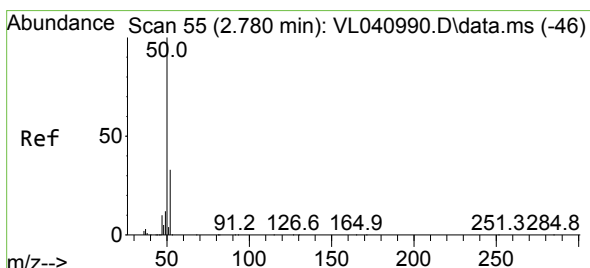
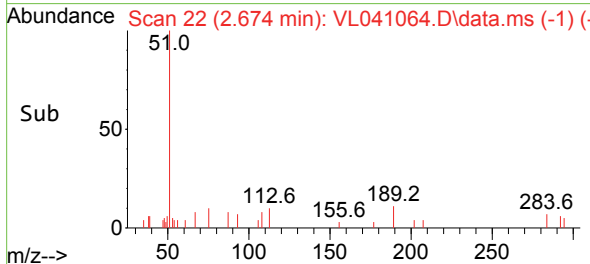
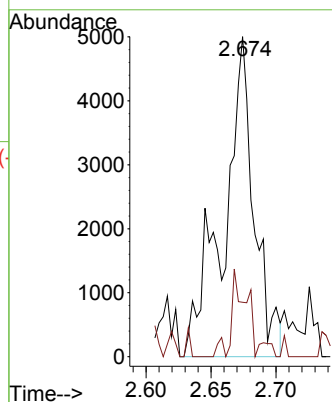
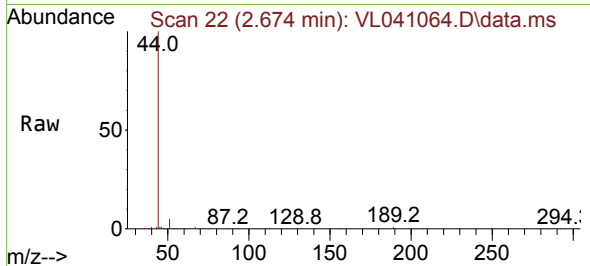




#3  
Chlorodifluoromethane  
Concen: 0.039 ppbv  
RT: 2.674 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

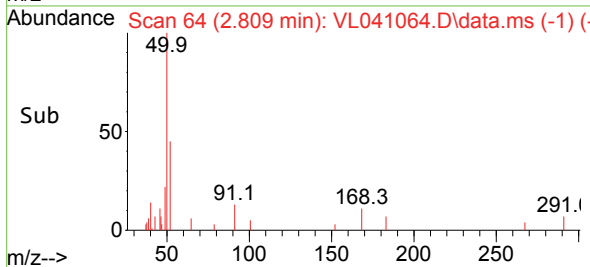
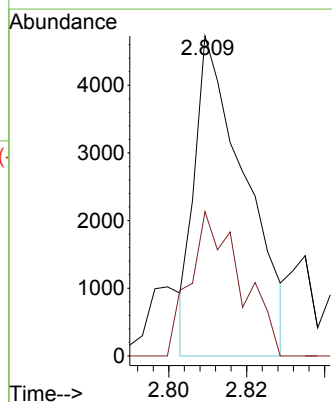
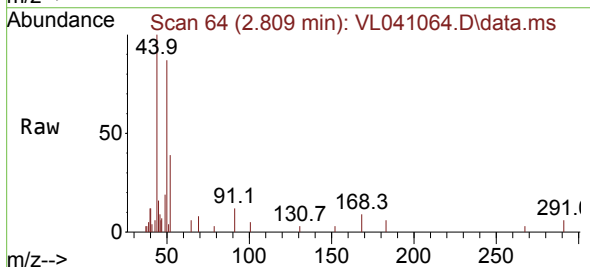
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA2RDL

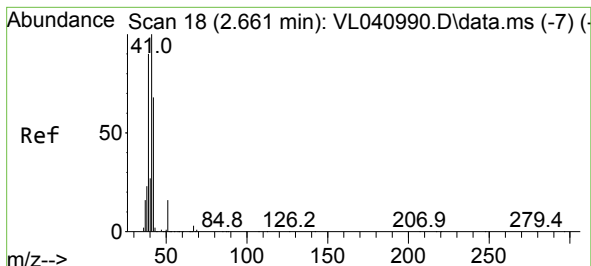
Tgt Ion: 51 Resp: 8160  
Ion Ratio Lower Upper  
51 100  
67 16.1 14.8 22.2



#4  
Chloromethane  
Concen: 0.055 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. 0.013 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

Tgt Ion: 50 Resp: 4237  
Ion Ratio Lower Upper  
50 100  
52 56.1 26.2 39.4#





#9

Propene

Concen: 0.449 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.029 min

Lab File: VL041064.D

Acq: 9 Feb 2024 19:04

Instrument :

MSVOA\_L

ClientSampleId :

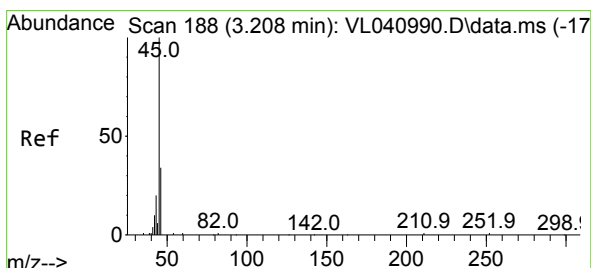
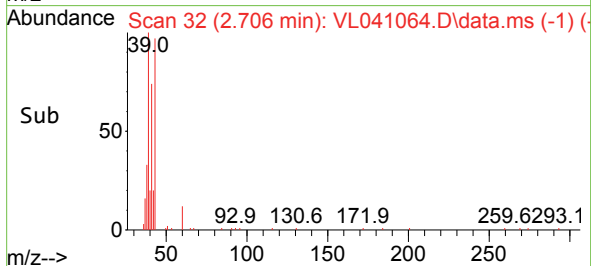
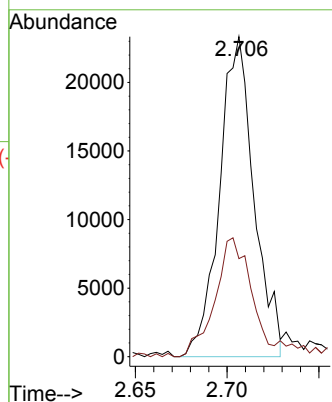
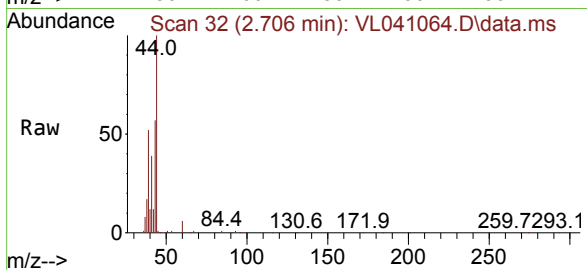
IA2RDL

Tgt Ion: 41 Resp: 30460

Ion Ratio Lower Upper

41 100

42 43.7 59.0 88.4#



#13

Ethanol

Concen: 38.716 ppbv

RT: 3.237 min Scan# 197

Delta R.T. 0.013 min

Lab File: VL041064.D

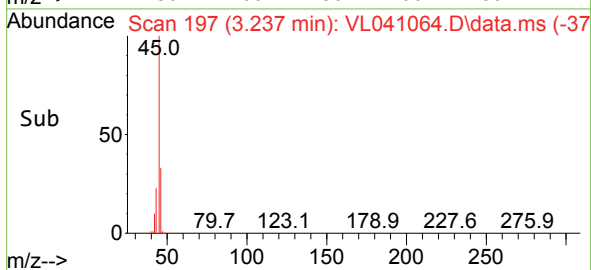
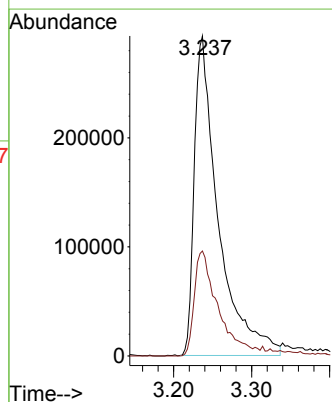
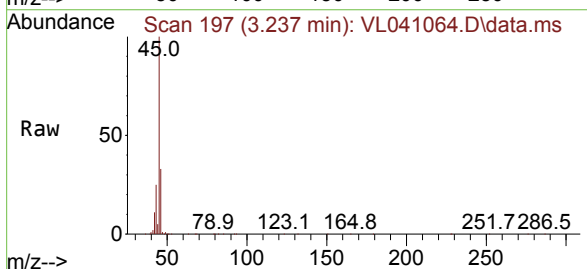
Acq: 9 Feb 2024 19:04

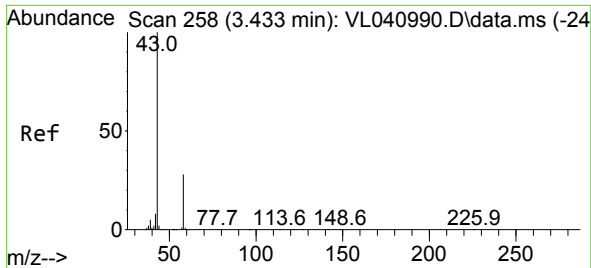
Tgt Ion: 45 Resp: 625301

Ion Ratio Lower Upper

45 100

46 36.0 16.2 64.8

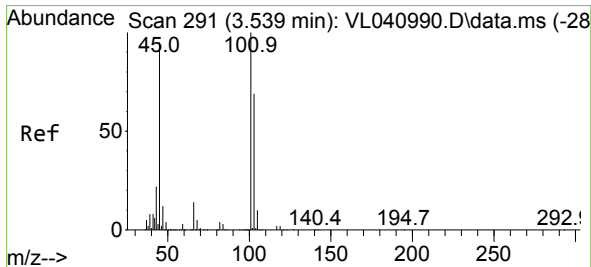
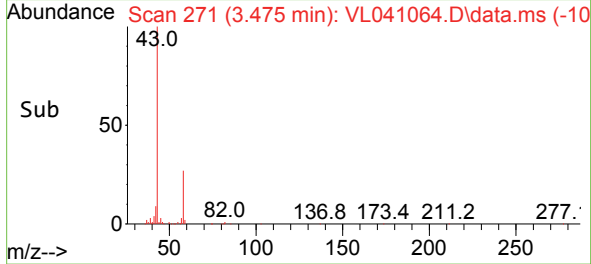
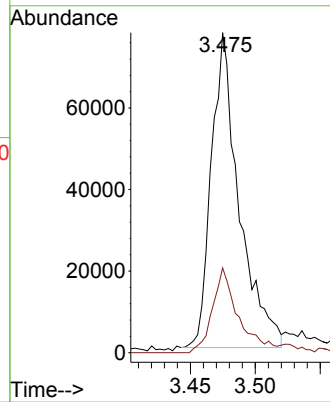
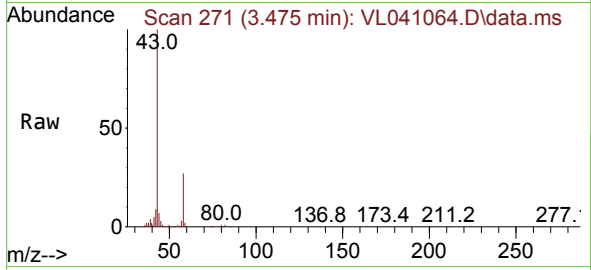




#15  
Acetone  
Concen: 0.731 ppbv  
RT: 3.475 min Scan# 21  
Delta R.T. 0.023 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

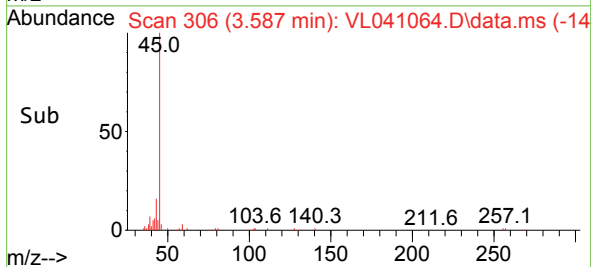
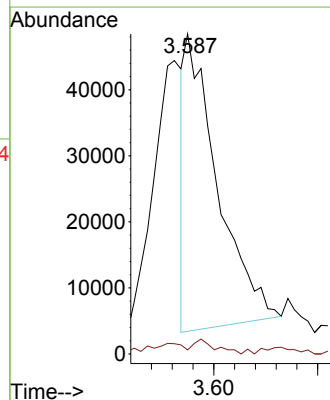
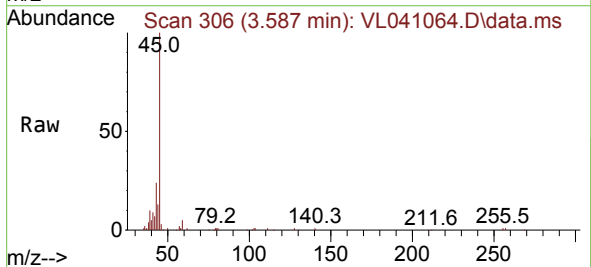
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA2RDL

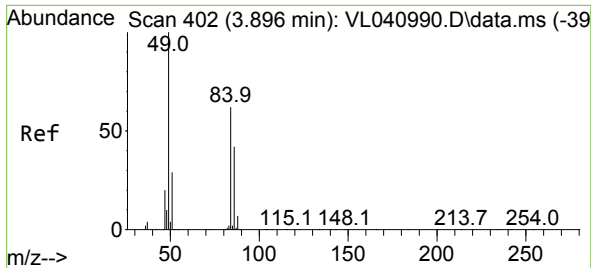
Tgt Ion: 43 Resp: 114857  
Ion Ratio Lower Upper  
43 100  
58 27.5 22.2 33.2



#19  
Isopropyl Alcohol  
Concen: 0.534 ppbv  
RT: 3.587 min Scan# 306  
Delta R.T. 0.026 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

Tgt Ion: 45 Resp: 48560  
Ion Ratio Lower Upper  
45 100  
58 8.8 2.2 3.4#



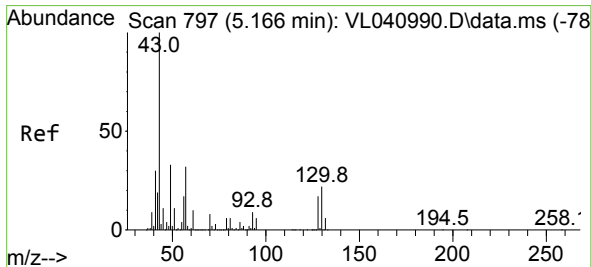
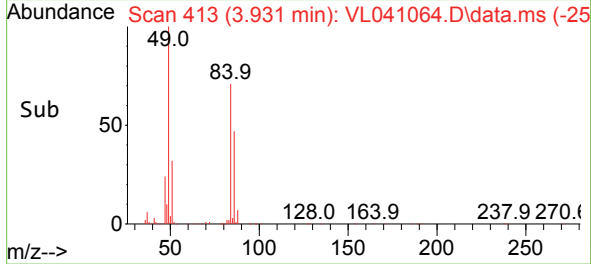
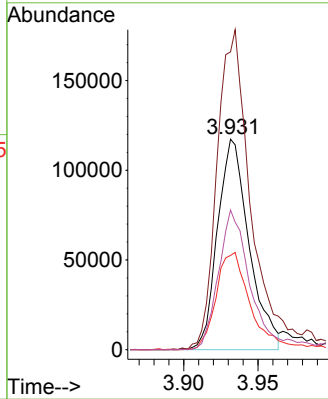
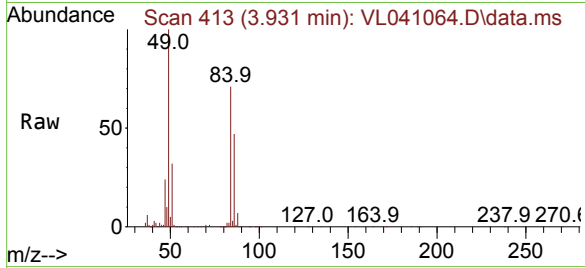


#20  
Methylene Chloride  
Concen: 2.872 ppbv  
RT: 3.931 min Scan# 413  
Delta R.T. 0.013 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA2RDL

Tgt Ion: 84 Resp: 173598

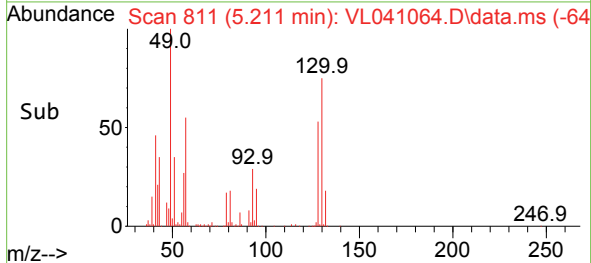
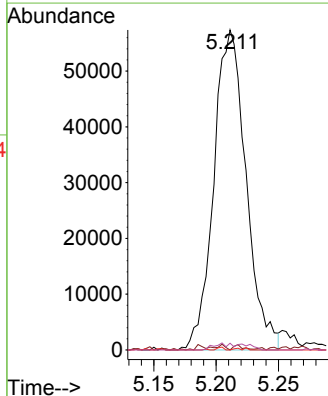
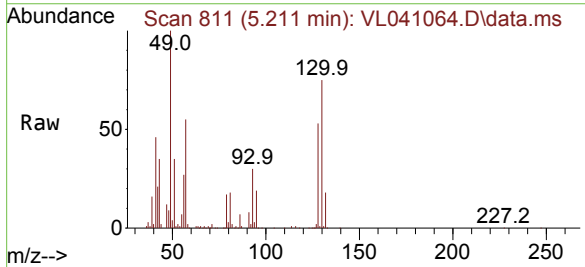
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 141.2 | 128.1 | 192.1 |
| 51  | 44.7  | 36.5  | 54.7  |
| 86  | 66.3  | 54.1  | 81.1  |

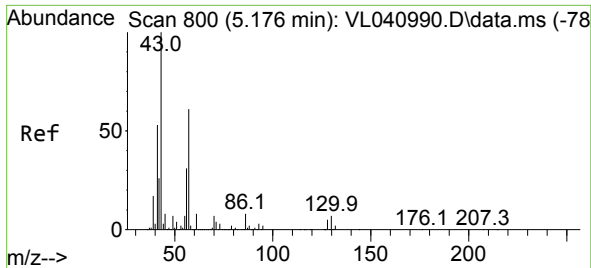


#25  
Ethyl Acetate  
Concen: 0.363 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.019 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

Tgt Ion: 43 Resp: 103529

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 1.7   | 8.2   | 12.4# |
| 61  | 0.3   | 7.9   | 11.9# |
| 70  | 2.0   | 5.4   | 8.2#  |

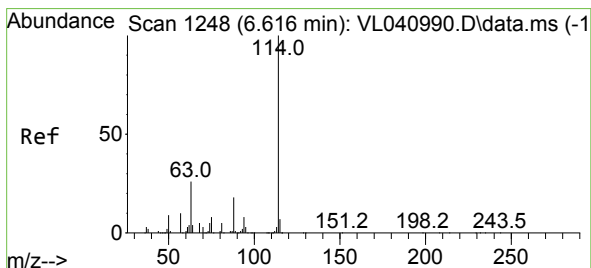
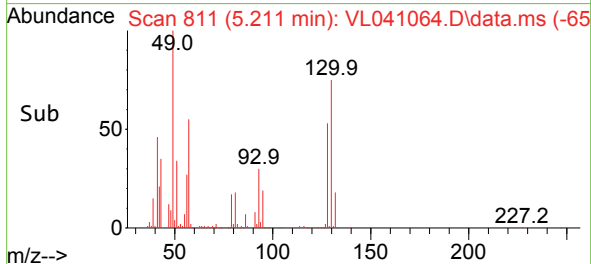
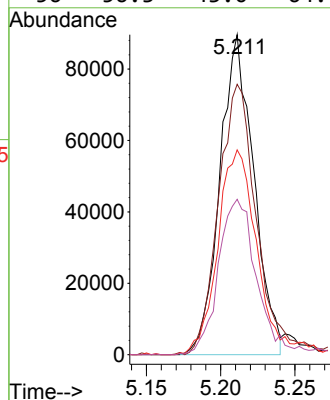
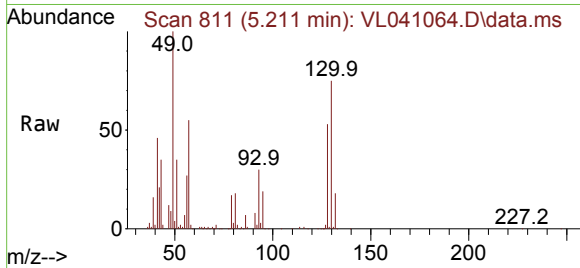




#26  
Hexane  
Concen: 1.173 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.013 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

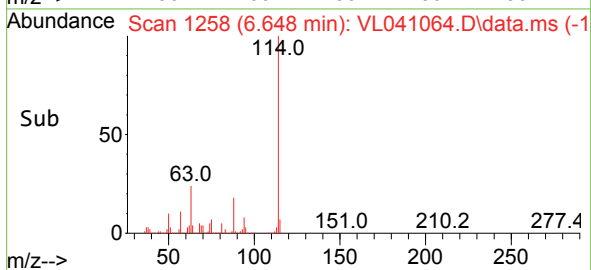
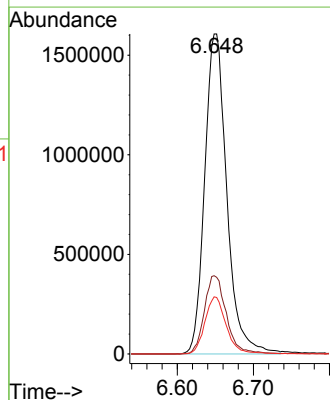
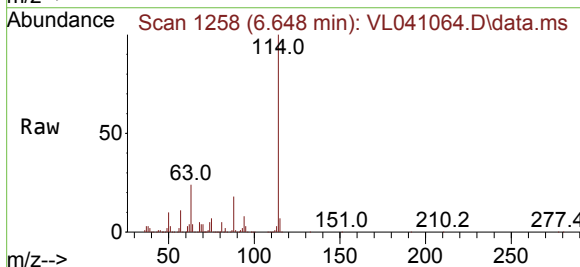
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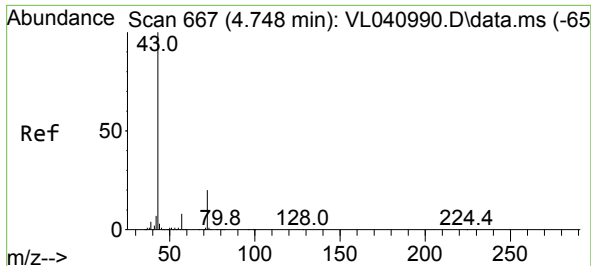
Tgt Ion: 57 Resp: 142358  
Ion Ratio Lower Upper  
57 100  
41 97.3 74.4 111.6  
43 75.5 190.6 285.8#  
56 56.3 43.0 64.4



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.648 min Scan# 1258  
Delta R.T. 0.006 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

Tgt Ion:114 Resp: 3246730  
Ion Ratio Lower Upper  
114 100  
63 24.6 20.8 31.2  
88 17.4 14.3 21.5

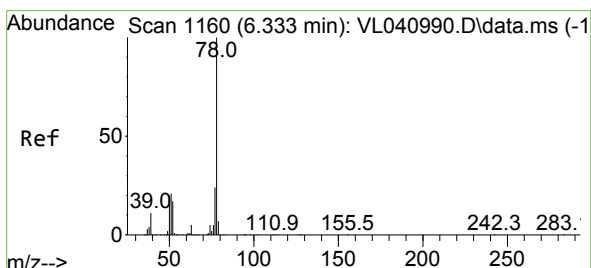
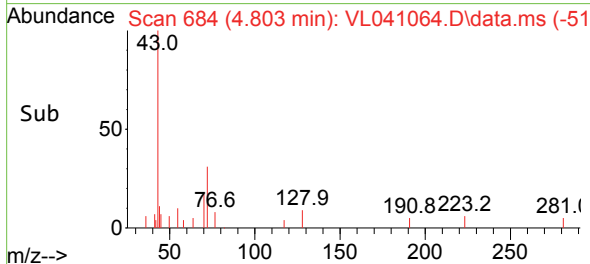
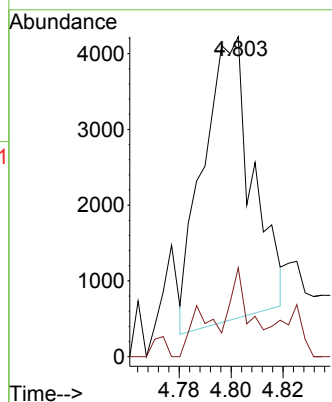
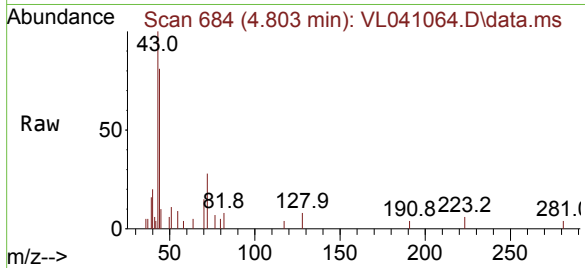




#34  
2-Butanone  
Concen: 0.032 ppbv  
RT: 4.803 min Scan# 611  
Delta R.T. 0.032 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

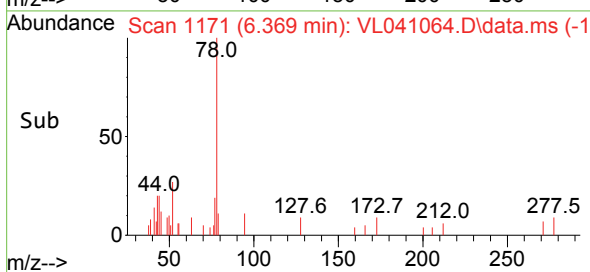
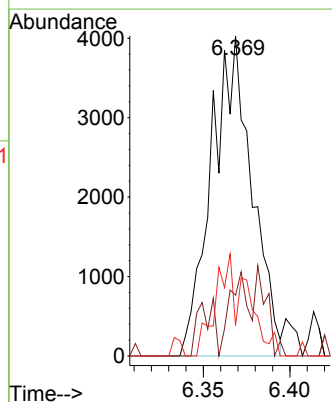
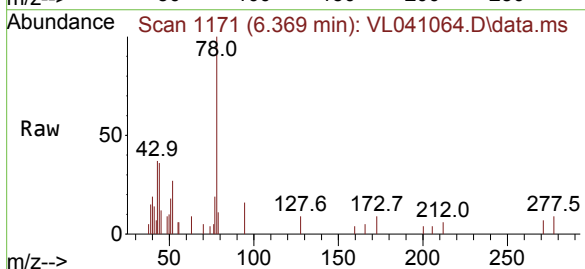
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA2RDL

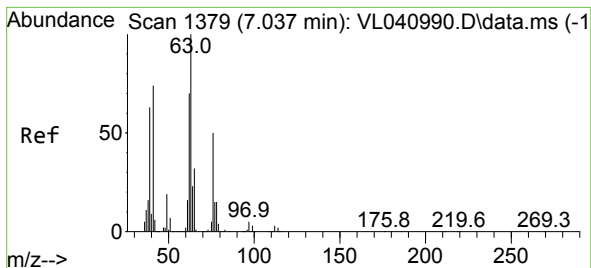
Tgt Ion: 43 Resp: 4935  
Ion Ratio Lower Upper  
43 100  
72 10.7 17.5 26.3#



#36  
Benzene  
Concen: 0.024 ppbv  
RT: 6.369 min Scan# 1171  
Delta R.T. 0.010 min  
Lab File: VL041064.D  
Acq: 9 Feb 2024 19:04

Tgt Ion: 78 Resp: 6564  
Ion Ratio Lower Upper  
78 100  
77 19.0 19.0 28.4  
50 22.5 15.8 23.6





#39

1,2-Dichloropropane

Concen: 7.362 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL041064.D

Acq: 9 Feb 2024 19:04

Instrument :

MSVOA\_L

ClientSampleId :

IA2RDL

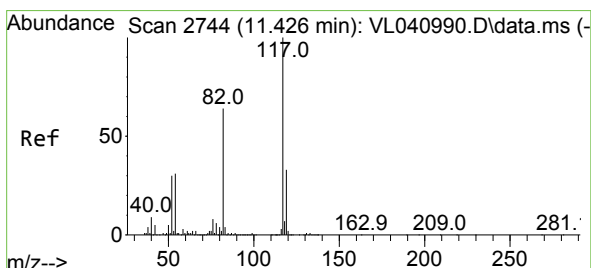
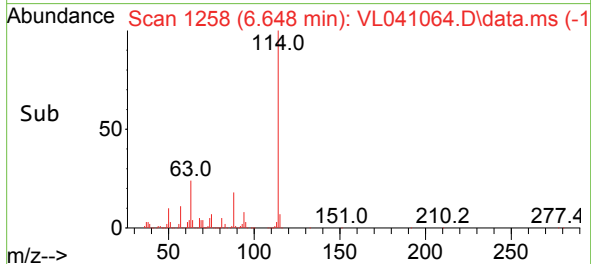
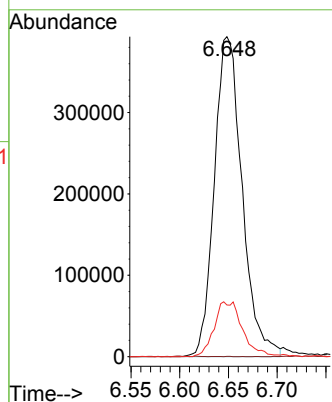
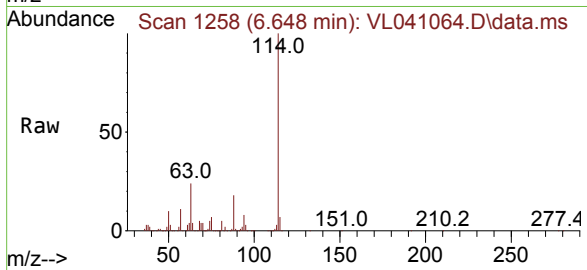
Tgt Ion: 63 Resp: 777656

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 16.2 55.6 83.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2755

Delta R.T. 0.010 min

Lab File: VL041064.D

Acq: 9 Feb 2024 19:04

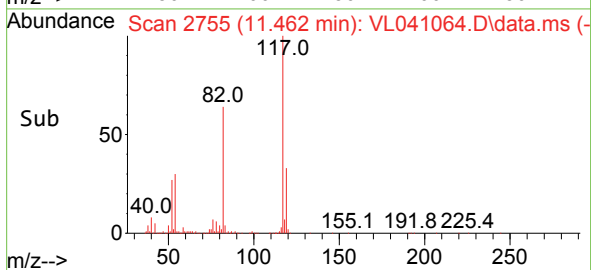
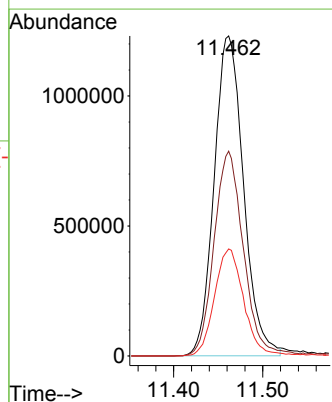
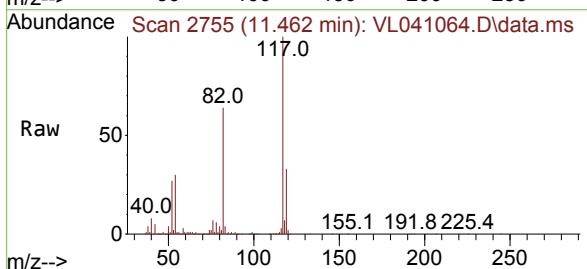
Tgt Ion: 117 Resp: 2820933

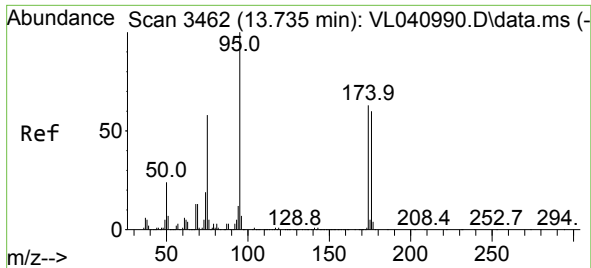
Ion Ratio Lower Upper

117 100

82 65.3 51.7 77.5

119 33.7 23.8 35.6





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.054 ppbv  
 RT: 13.773 min Scan# 34  
 Delta R.T. 0.013 min  
 Lab File: VL041064.D  
 Acq: 9 Feb 2024 19:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA2RDL

Tgt Ion: 95 Resp: 2142095  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 63.9  | 49.1  | 73.7  |
| 175 | 4.8   | 3.7   | 5.5   |

