

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040824\  
 Data File : VL041148.D  
 Acq On : 8 Apr 2024 13:21  
 Operator : SY/MD  
 Sample : P1953-03DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV3DL

Quant Time: Apr 09 01:13:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Apr 09 01:10:08 2024  
 Response via : Initial Calibration

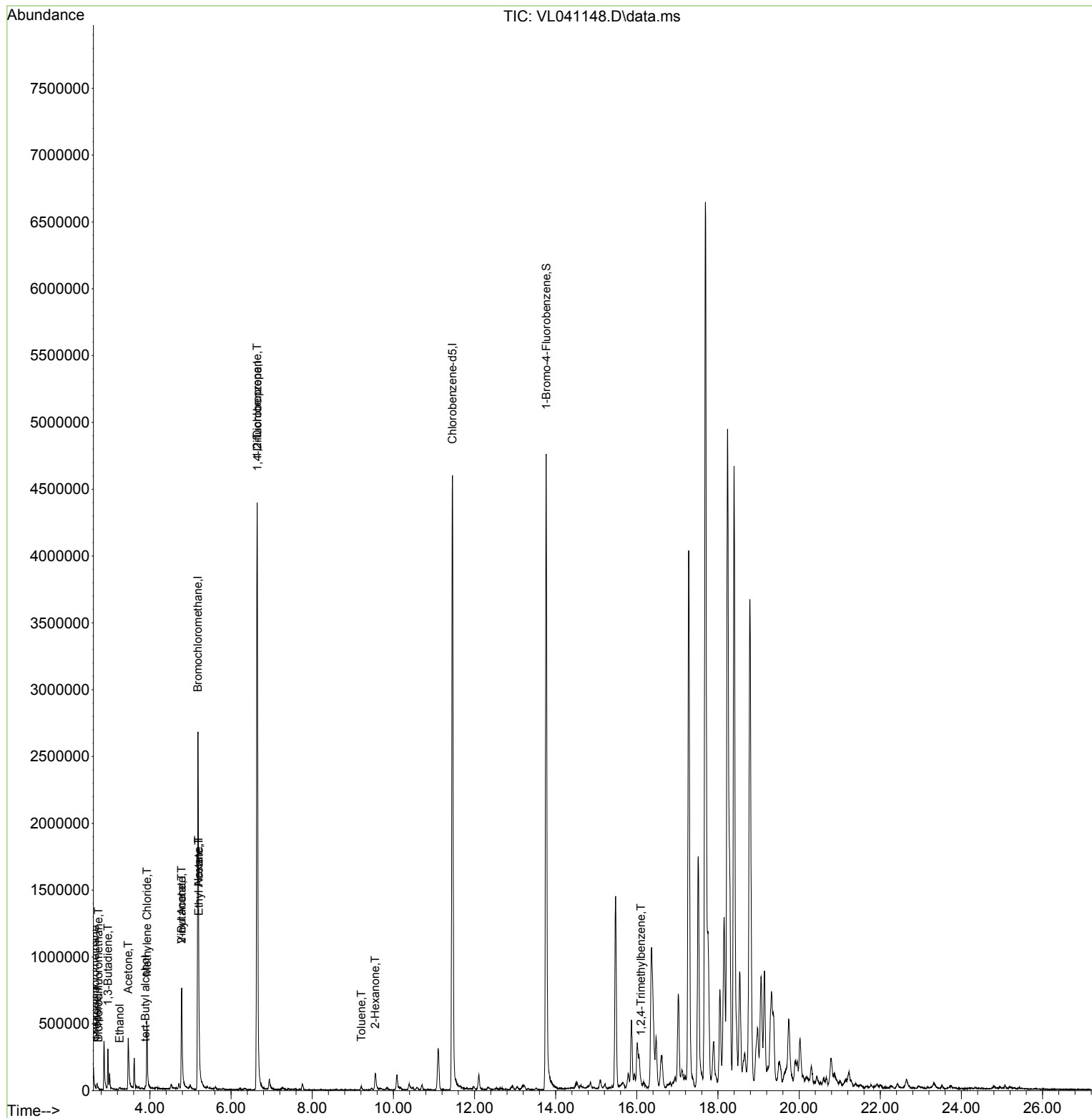
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.182  | 49    | 1270060  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.645  | 114   | 3447505  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.458 | 117   | 3102809  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.767 | 95    | 2442528  | 9.790    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.900%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.729  | 85    | 11289    | 0.052    | ppbv   | 91       |
| 3) Chlorodifluoromethane    | 2.649  | 51    | 10373    | 0.053    | ppbv # | 78       |
| 9) Propene                  | 2.694  | 41    | 16493    | 0.265    | ppbv   | 99       |
| 13) Ethanol                 | 3.253  | 45    | 13249    | 0.895    | ppbv   | 84       |
| 15) Acetone                 | 3.465  | 43    | 382857   | 2.784    | ppbv # | 75       |
| 16) 1,3-Butadiene           | 2.964  | 39    | 64717    | 0.959    | ppbv # | 18       |
| 17) tert-Butyl alcohol      | 3.890  | 59    | 15579    | 0.125    | ppbv # | 92       |
| 20) Methylene Chloride      | 3.928  | 84    | 170272   | 3.002    | ppbv   | 97       |
| 23) Vinyl Acetate           | 4.784  | 43    | 957251   | 6.814    | ppbv # | 87       |
| 25) Ethyl Acetate           | 5.205  | 43    | 59017    | 0.229    | ppbv # | 79       |
| 26) Hexane                  | 5.202  | 57    | 94182    | 0.813    | ppbv # | 39       |
| 34) 2-Butanone              | 4.784  | 43    | 957251   | 6.562    | ppbv   | 99       |
| 39) 1,2-Dichloropropane     | 6.642  | 63    | 822545   | 8.240    | ppbv # | 25       |
| 51) 2-Hexanone              | 9.555  | 43    | 109383   | 0.615    | ppbv # | 91       |
| 53) Toluene                 | 9.211  | 91    | 10706    | 0.040    | ppbv # | 40       |
| 74) 1,2,4-Trimethylbenzene  | 16.101 | 105   | 10893    | 0.033    | ppbv # | 56       |
| -----                       |        |       |          |          |        |          |

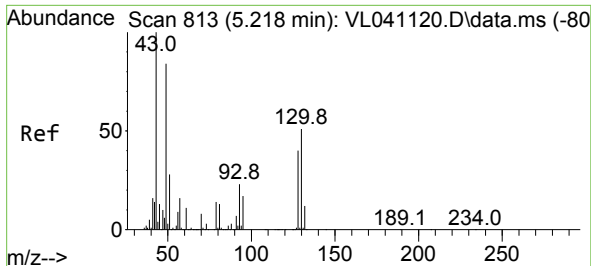
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040824\  
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Quant Time: Apr 09 01:13:27 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Apr 09 01:10:08 2024  
Response via : Initial Calibration

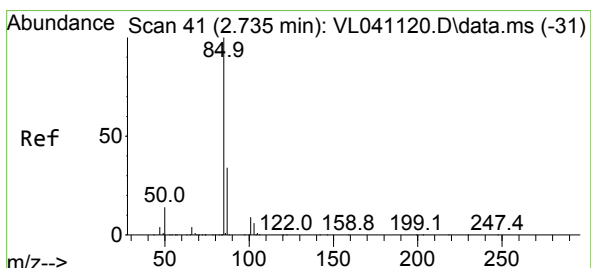
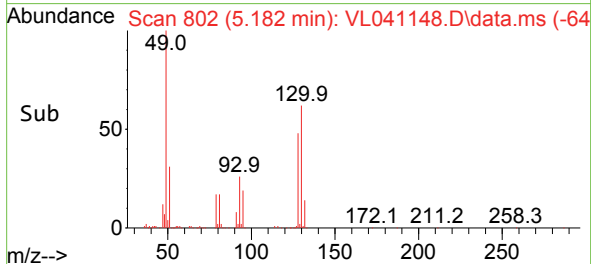
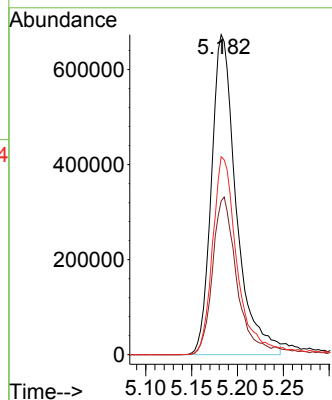
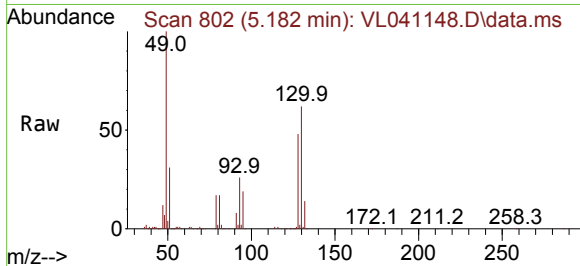




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.182 min Scan# 80  
Delta R.T. 0.003 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

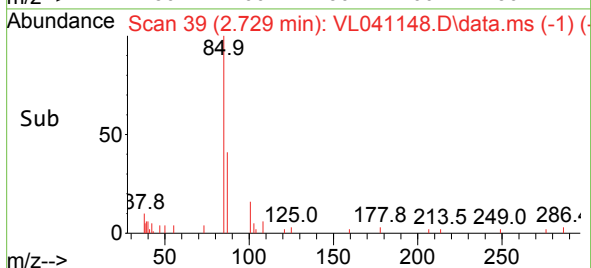
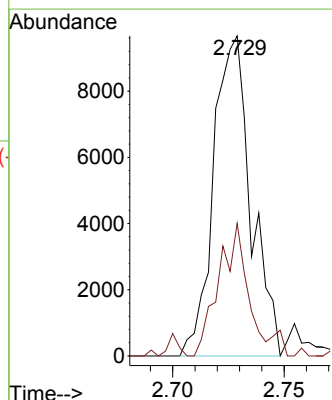
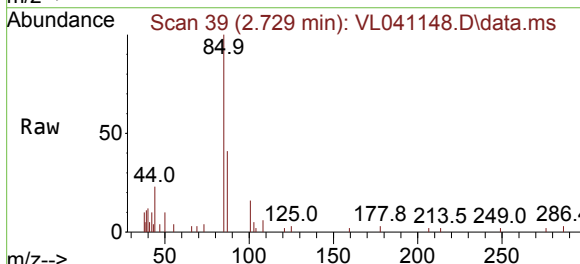
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

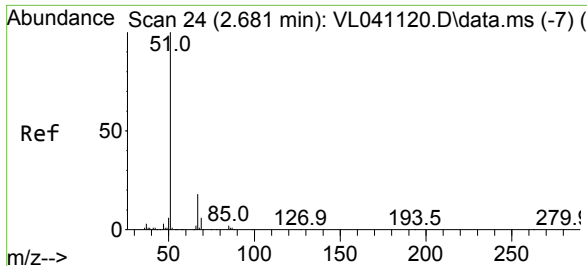
Tgt Ion: 49 Resp: 1270060  
Ion Ratio Lower Upper  
49 100  
128 50.6 23.6 71.0  
130 63.9 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 0.052 ppbv  
RT: 2.729 min Scan# 39  
Delta R.T. 0.013 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 85 Resp: 11289  
Ion Ratio Lower Upper  
85 100  
87 38.8 27.0 40.6

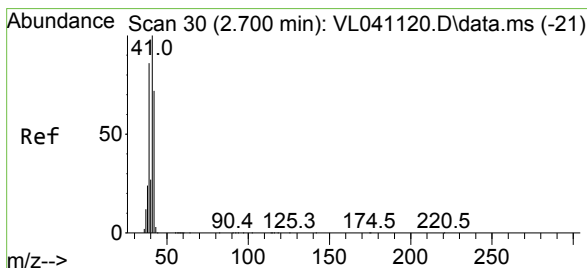
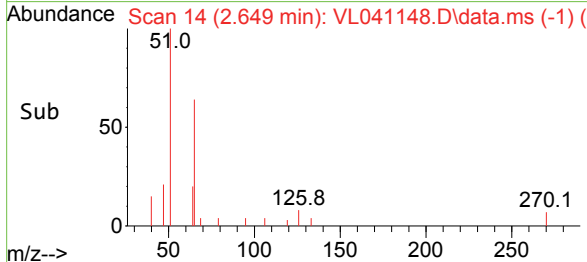
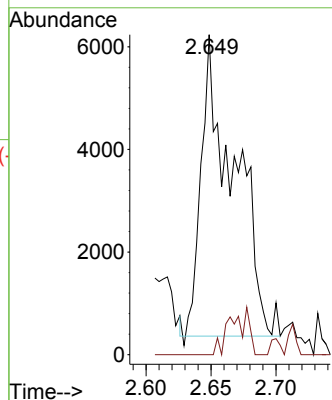
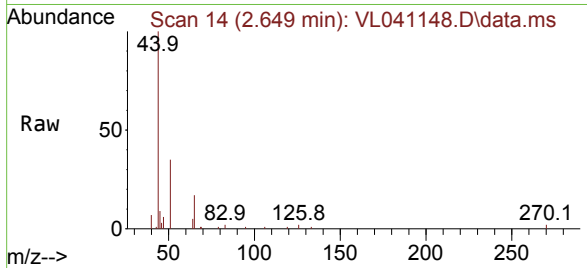




#3  
Chlorodifluoromethane  
Concen: 0.053 ppbv  
RT: 2.649 min Scan# 14  
Delta R.T. -0.016 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

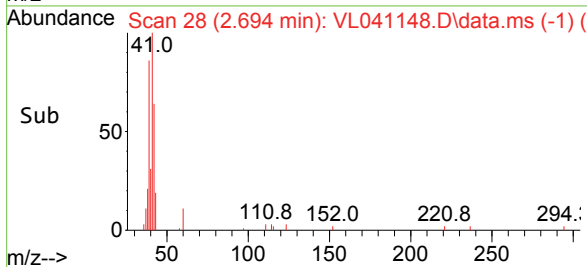
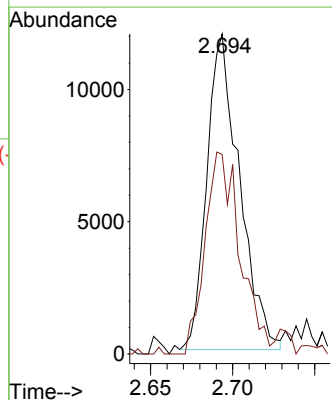
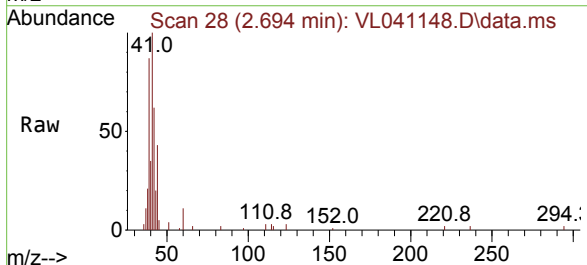
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

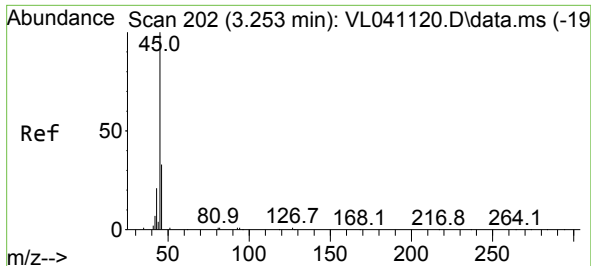
Tgt Ion: 51 Resp: 10373  
Ion Ratio Lower Upper  
51 100  
67 8.8 14.9 22.3#



#9  
Propene  
Concen: 0.265 ppbv  
RT: 2.694 min Scan# 28  
Delta R.T. 0.013 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 41 Resp: 16493  
Ion Ratio Lower Upper  
41 100  
42 74.0 60.1 90.1

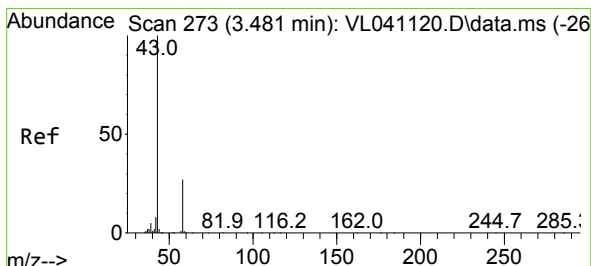
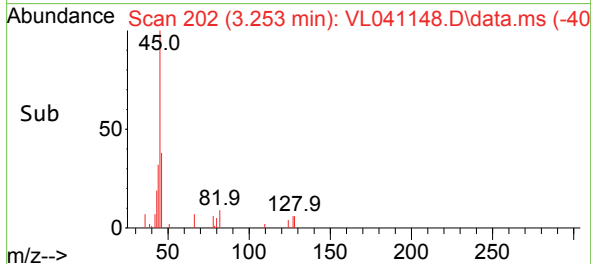
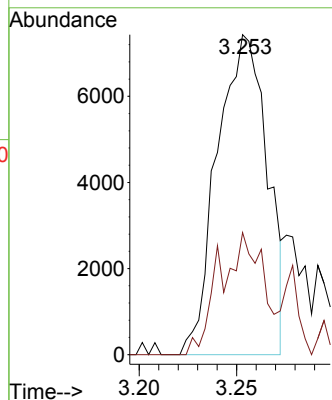
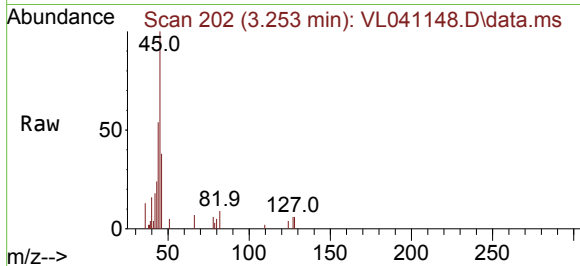




#13  
Ethanol  
Concen: 0.895 ppbv  
RT: 3.253 min Scan# 202  
Delta R.T. 0.022 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

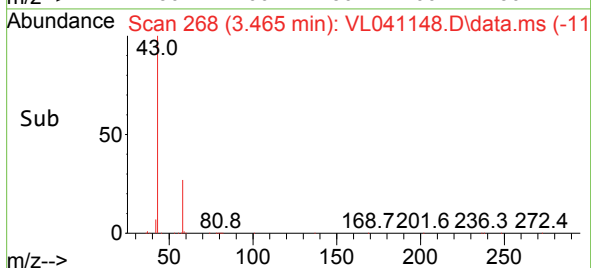
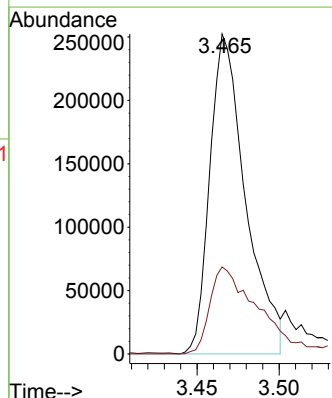
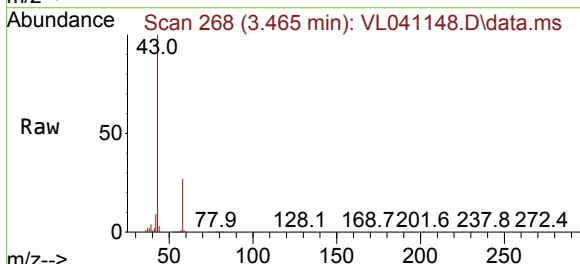
Instrument :  
MSVOA\_L  
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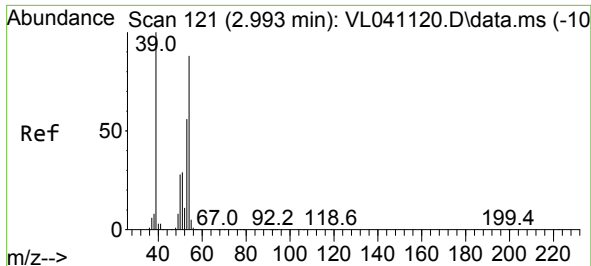
Tgt Ion: 45 Resp: 13249  
Ion Ratio Lower Upper  
45 100  
46 47.0 15.0 59.8



#15  
Acetone  
Concen: 2.784 ppbv  
RT: 3.465 min Scan# 268  
Delta R.T. 0.010 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 43 Resp: 382857  
Ion Ratio Lower Upper  
43 100  
58 39.4 21.1 31.7#

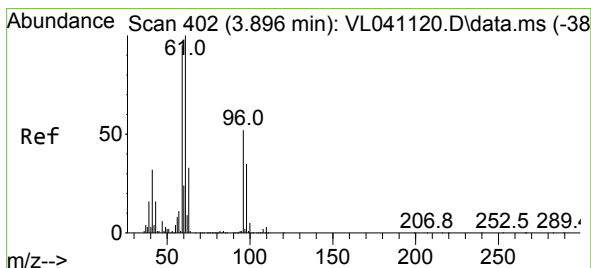
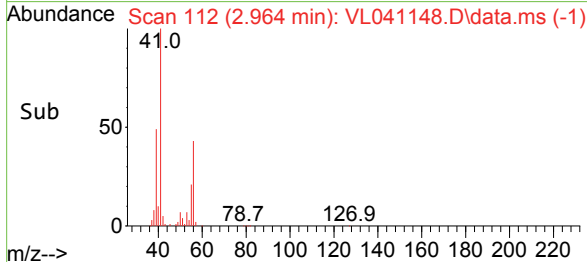
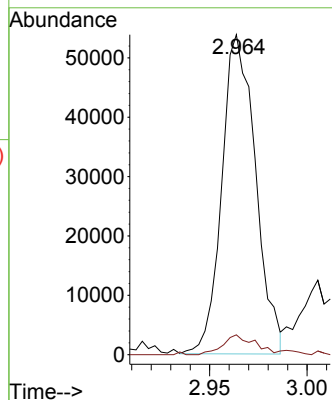
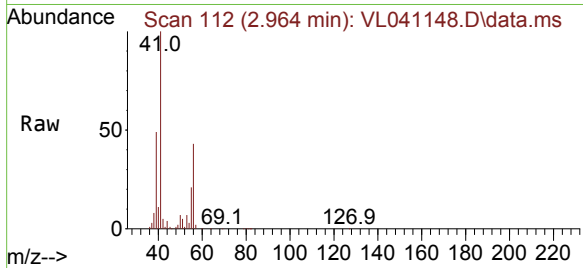




#16  
1,3-Butadiene  
Concen: 0.959 ppbv  
RT: 2.964 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

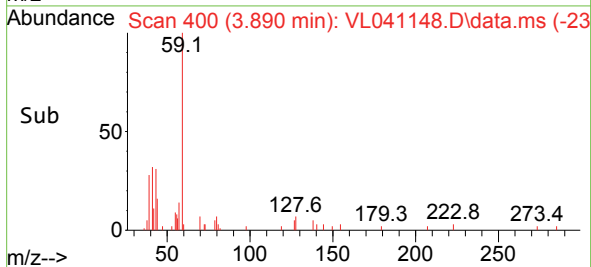
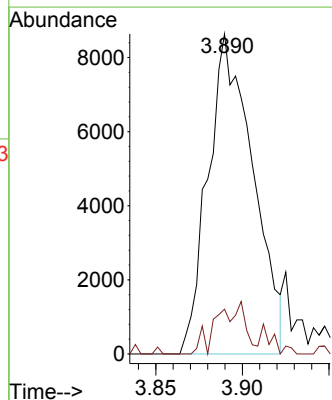
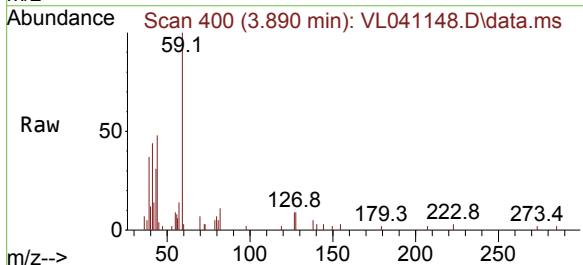
Instrument :  
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ClientSampleId :  
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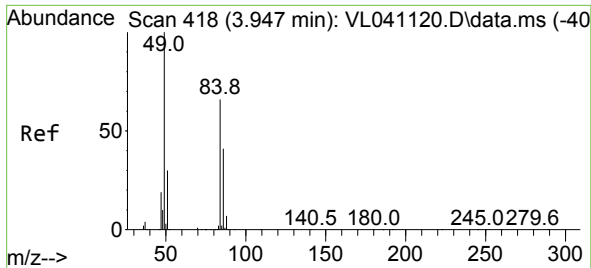
Tgt Ion: 39 Resp: 64717  
Ion Ratio Lower Upper  
39 100  
54 7.0 63.5 95.3#



#17  
tert-Butyl alcohol  
Concen: 0.125 ppbv  
RT: 3.890 min Scan# 400  
Delta R.T. 0.026 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

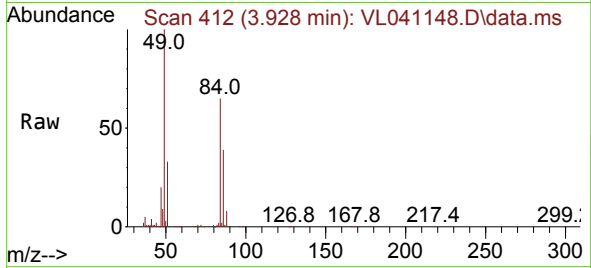
Tgt Ion: 59 Resp: 15579  
Ion Ratio Lower Upper  
59 100  
57 13.8 8.7 13.1#





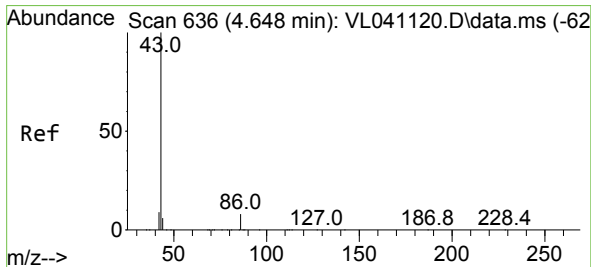
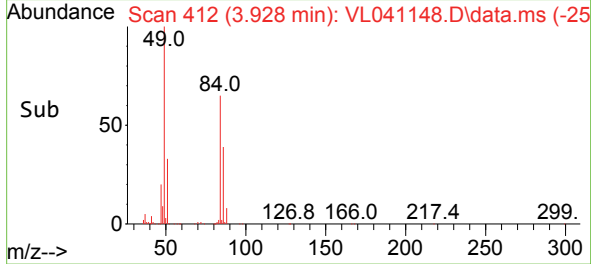
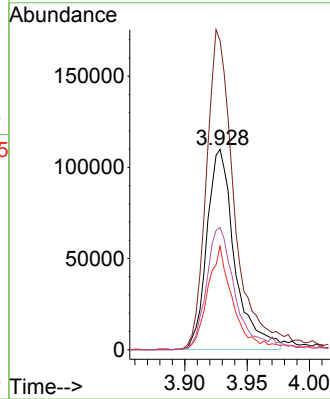
#20  
Methylene Chloride  
Concen: 3.002 ppbv  
RT: 3.928 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Instrument :  
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ClientSampleId :  
SV3DL



Tgt Ion: 84 Resp: 170272

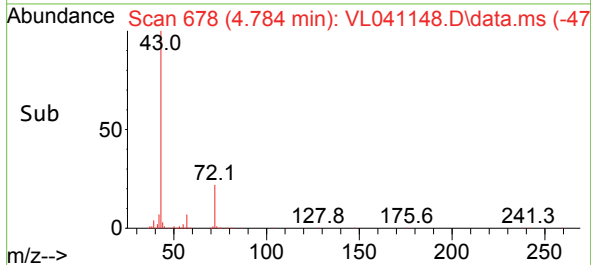
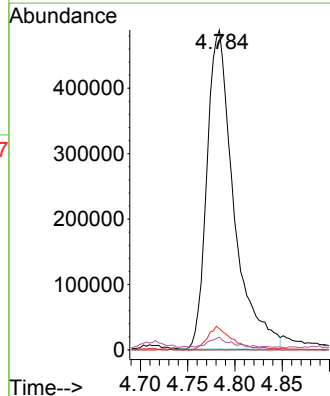
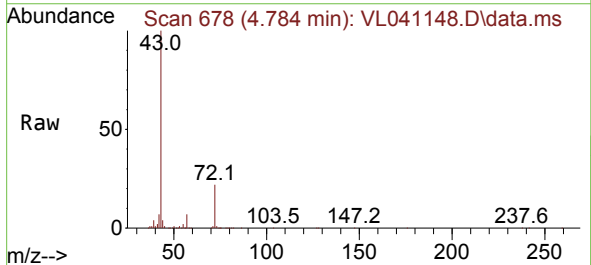
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 154.3 | 120.7 | 181.1 |
| 51  | 51.5  | 36.6  | 54.8  |
| 86  | 60.9  | 49.2  | 73.8  |

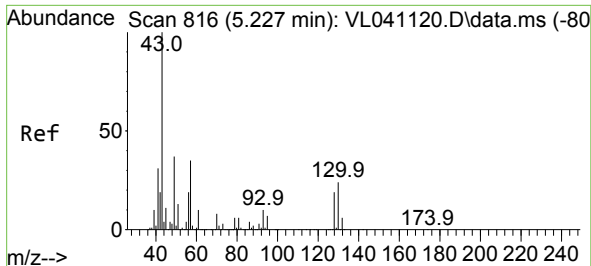


#23  
Vinyl Acetate  
Concen: 6.814 ppbv  
RT: 4.784 min Scan# 678  
Delta R.T. 0.170 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 43 Resp: 957251

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.1   | 6.2   | 9.4#  |
| 42  | 6.5   | 7.7   | 11.5# |
| 44  | 3.1   | 4.9   | 7.3#  |

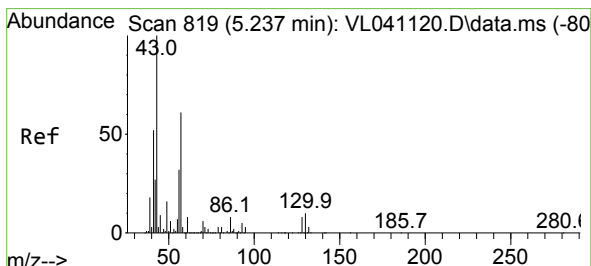
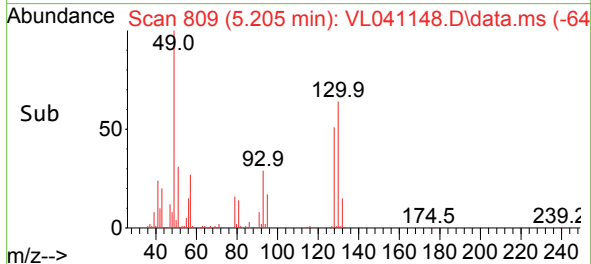
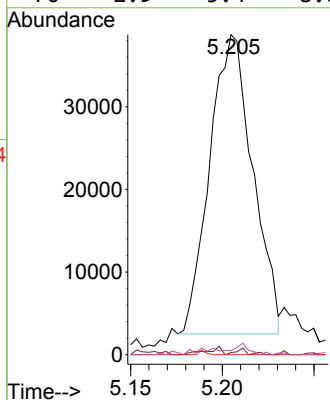
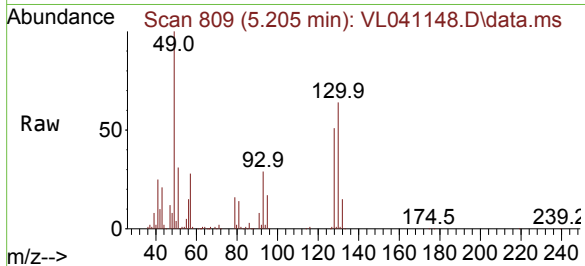




#25  
Ethyl Acetate  
Concen: 0.229 ppbv  
RT: 5.205 min Scan# 808  
Delta R.T. 0.016 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

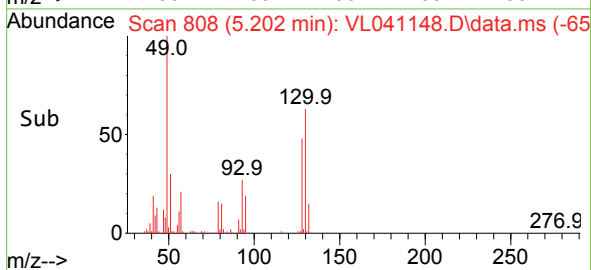
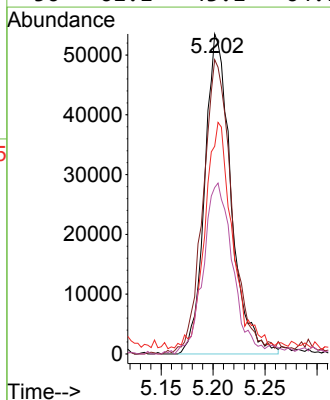
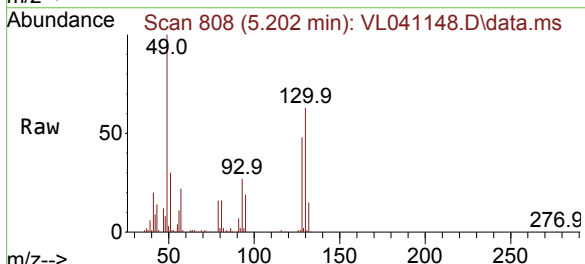
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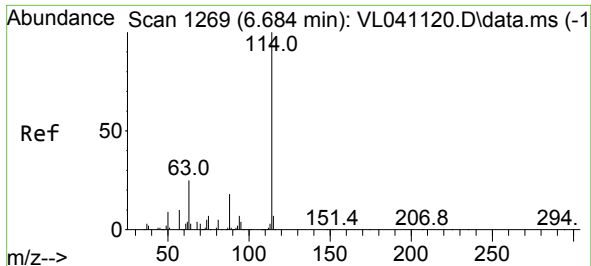
Tgt Ion: 43 Resp: 59017  
Ion Ratio Lower Upper  
43 100  
45 1.7 8.0 12.0#  
61 0.2 7.8 11.6#  
70 2.9 5.4 8.0#



#26  
Hexane  
Concen: 0.813 ppbv  
RT: 5.202 min Scan# 808  
Delta R.T. 0.006 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 57 Resp: 94182  
Ion Ratio Lower Upper  
57 100  
41 102.4 73.8 110.8  
43 78.0 186.2 279.2#  
56 61.1 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL041148.D

Acq: 8 Apr 2024 13:21

Instrument :

MSVOA\_L

ClientSampleId :

SV3DL

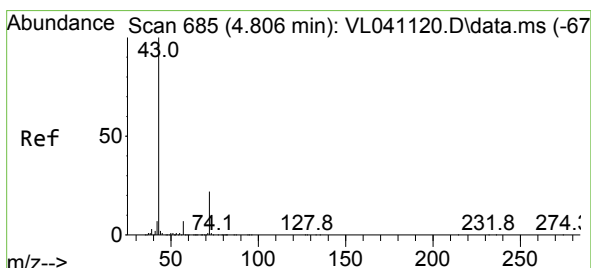
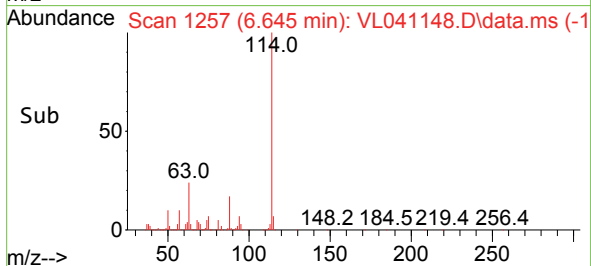
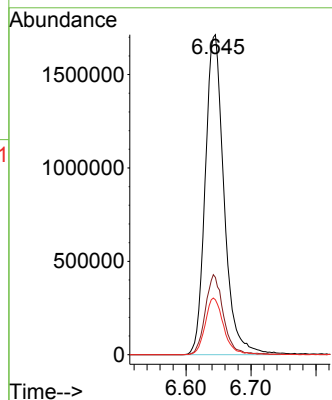
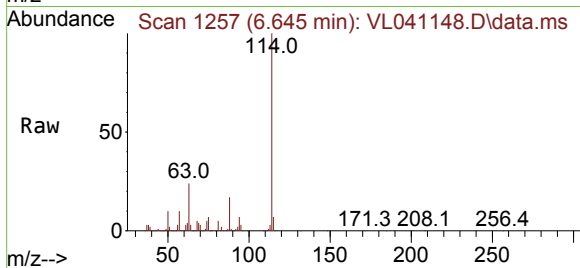
Tgt Ion:114 Resp: 3447505

Ion Ratio Lower Upper

114 100

63 24.4 20.9 31.3

88 17.5 14.5 21.7



#34

2-Butanone

Concen: 6.562 ppbv

RT: 4.784 min Scan# 678

Delta R.T. 0.013 min

Lab File: VL041148.D

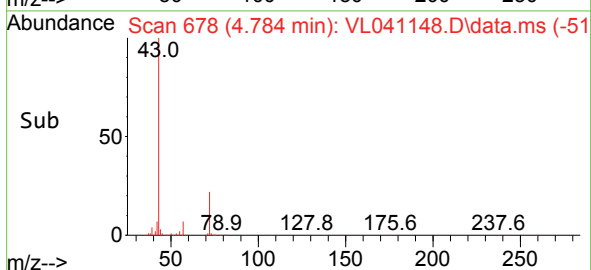
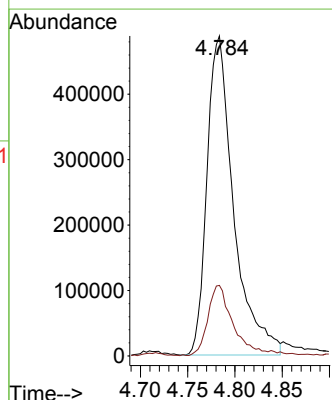
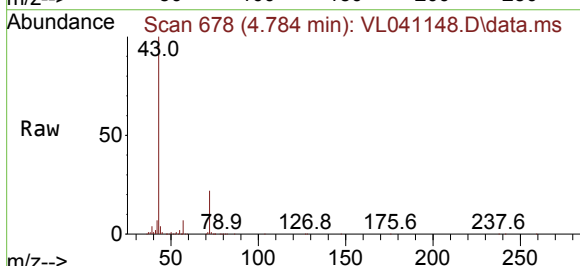
Acq: 8 Apr 2024 13:21

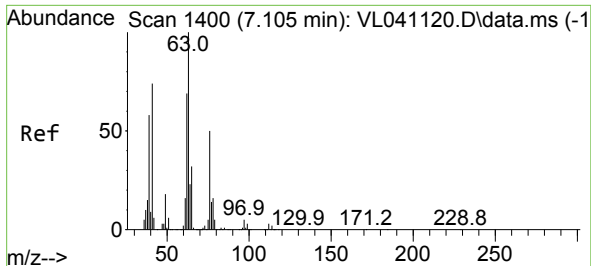
Tgt Ion: 43 Resp: 957251

Ion Ratio Lower Upper

43 100

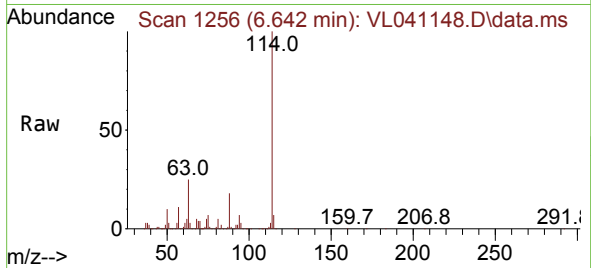
72 22.3 17.6 26.4



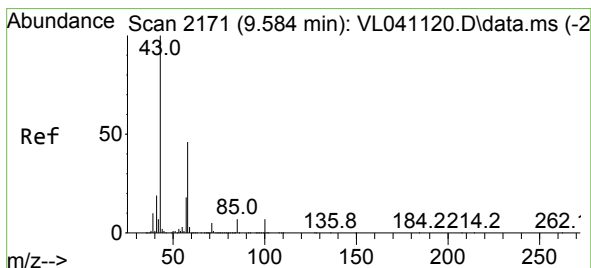
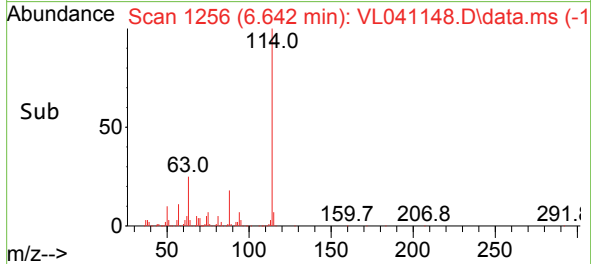
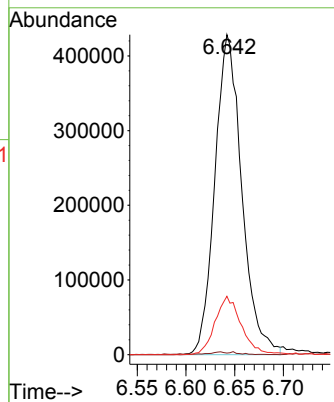


#39  
1,2-Dichloropropane  
Concen: 8.240 ppbv  
RT: 6.642 min Scan# 11  
Delta R.T. -0.418 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

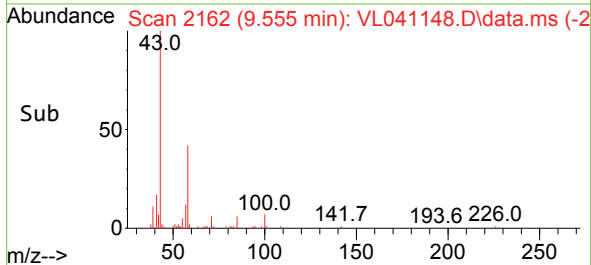
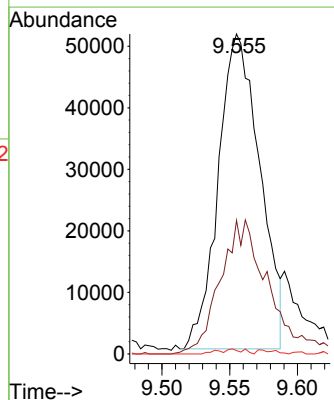
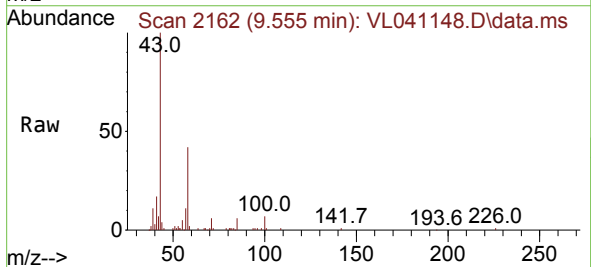


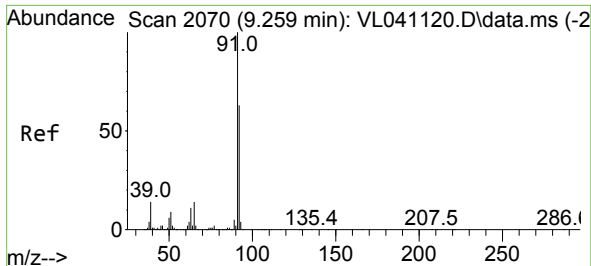
Tgt Ion: 63 Resp: 822545  
Ion Ratio Lower Upper  
63 100  
41 0.5 58.7 88.1#  
62 18.3 55.5 83.3#



#51  
2-Hexanone  
Concen: 0.615 ppbv  
RT: 9.555 min Scan# 2162  
Delta R.T. 0.022 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 43 Resp: 109383  
Ion Ratio Lower Upper  
43 100  
58 52.8 37.3 55.9  
98 1.6 0.3 0.5#

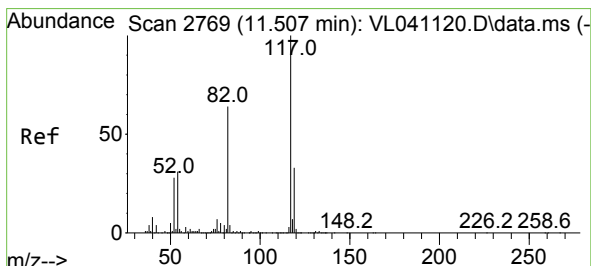
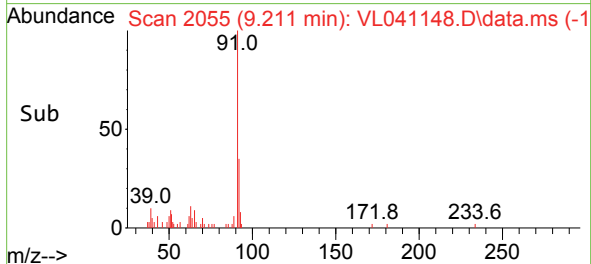
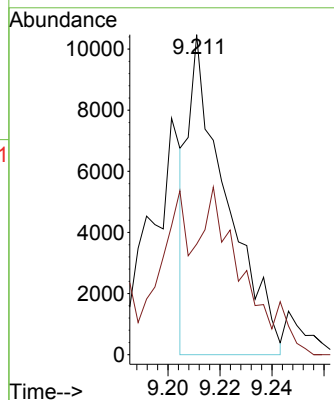
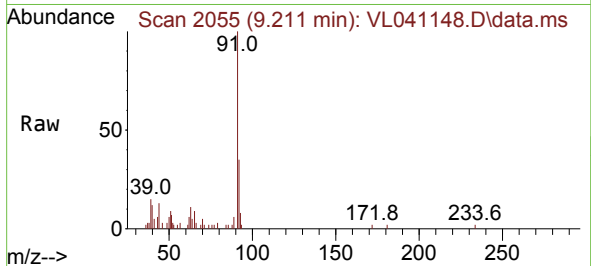




#53  
Toluene  
Concen: 0.040 ppbv  
RT: 9.211 min Scan# 2070  
Delta R.T. 0.006 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

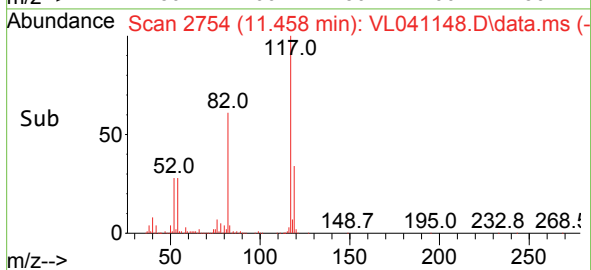
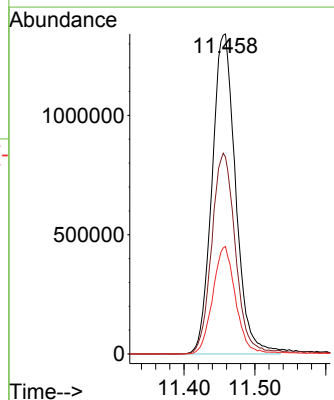
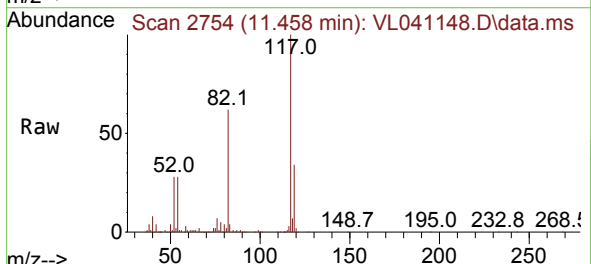
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

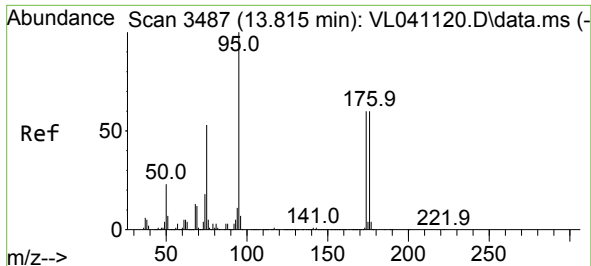
Tgt Ion: 91 Resp: 10706  
Ion Ratio Lower Upper  
91 100  
92 106.9 49.0 73.4#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.458 min Scan# 2754  
Delta R.T. 0.006 min  
Lab File: VL041148.D  
Acq: 8 Apr 2024 13:21

Tgt Ion: 117 Resp: 3102809  
Ion Ratio Lower Upper  
117 100  
82 64.4 51.0 76.6  
119 33.0 25.2 37.8

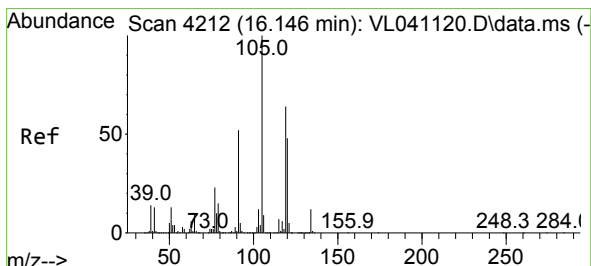
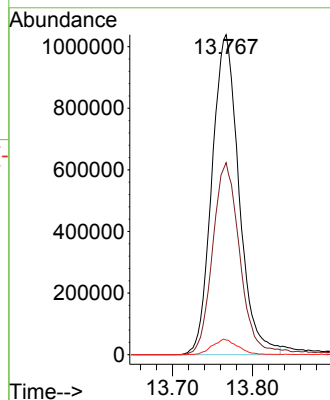
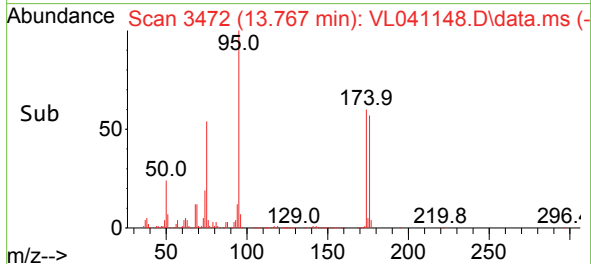
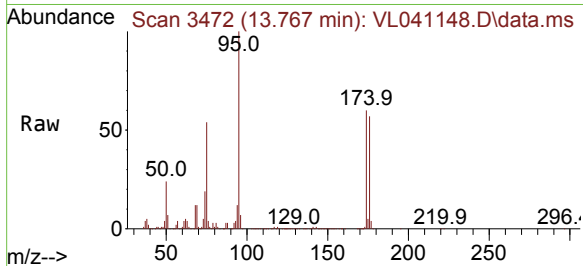




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.790 ppbv  
 RT: 13.767 min Scan# 341  
 Delta R.T. 0.006 min  
 Lab File: VL041148.D  
 Acq: 8 Apr 2024 13:21

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV3DL

Tgt Ion: 95 Resp: 2442528  
 Ion Ratio Lower Upper  
 95 100  
 174 61.7 49.3 73.9  
 175 4.6 3.6 5.4



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.033 ppbv  
 RT: 16.101 min Scan# 4198  
 Delta R.T. 0.010 min  
 Lab File: VL041148.D  
 Acq: 8 Apr 2024 13:21

Tgt Ion: 105 Resp: 10893  
 Ion Ratio Lower Upper  
 105 100  
 120 35.7 38.9 58.3#  
 91 5.8 43.0 64.6#  
 77 3.6 18.6 28.0#

