

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121922\  
 Data File : VL040037.D  
 Acq On : 19 Dec 2022 20:50  
 Operator : SY/MD  
 Sample : N5971-05DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-6DL

Quant Time: Dec 20 05:15:53 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Dec 20 04:50:21 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.166  | 49    | 1067276  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.629  | 114   | 2929615  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.446 | 117   | 2558755  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.757 | 95    | 1932618  | 9.888    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.900%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.706  | 85    | 7385     | 0.037    | ppbv   | 89       |
| 3) Chlorodifluoromethane    | 2.649  | 51    | 6896     | 0.044    | ppbv   | 96       |
| 4) Chloromethane            | 2.790  | 50    | 7014     | 0.071    | ppbv # | 80       |
| 6) Bromomethane             | 3.099  | 94    | 1233     | 0.042    | ppbv   | 100      |
| 9) Propene                  | 2.848  | 41    | 226114   | 3.384    | ppbv   | 98       |
| 10) Heptane                 | 7.555  | 43    | 8252     | 0.051    | ppbv # | 26       |
| 13) Ethanol                 | 3.218  | 45    | 238679   | 37.948   | ppbv   | 87       |
| 15) Acetone                 | 3.446  | 43    | 784138   | 4.749    | ppbv   | 94       |
| 16) 1,3-Butadiene           | 2.944  | 39    | 23718    | 0.330    | ppbv # | 32       |
| 19) Isopropyl Alcohol       | 3.587  | 45    | 2967     | 0.036    | ppbv # | 94       |
| 20) Methylene Chloride      | 3.912  | 84    | 123980   | 1.767    | ppbv   | 99       |
| 23) Vinyl Acetate           | 4.584  | 43    | 33169    | 0.634    | ppbv # | 1        |
| 25) Ethyl Acetate           | 5.189  | 43    | 65597    | 0.229    | ppbv # | 76       |
| 26) Hexane                  | 5.189  | 57    | 93121    | 0.775    | ppbv # | 39       |
| 30) Cyclohexane             | 6.578  | 84    | 26866    | 0.252    | ppbv   | 94       |
| 36) Benzene                 | 6.346  | 78    | 30721    | 0.117    | ppbv   | 94       |
| 39) 1,2-Dichloropropane     | 6.626  | 63    | 698644   | 7.124    | ppbv # | 24       |
| 53) Toluene                 | 9.198  | 91    | 45575    | 0.157    | ppbv   | 95       |
| -----                       |        |       |          |          |        |          |

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

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Instrument :  
MSVOA\_L  
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SS-6DL

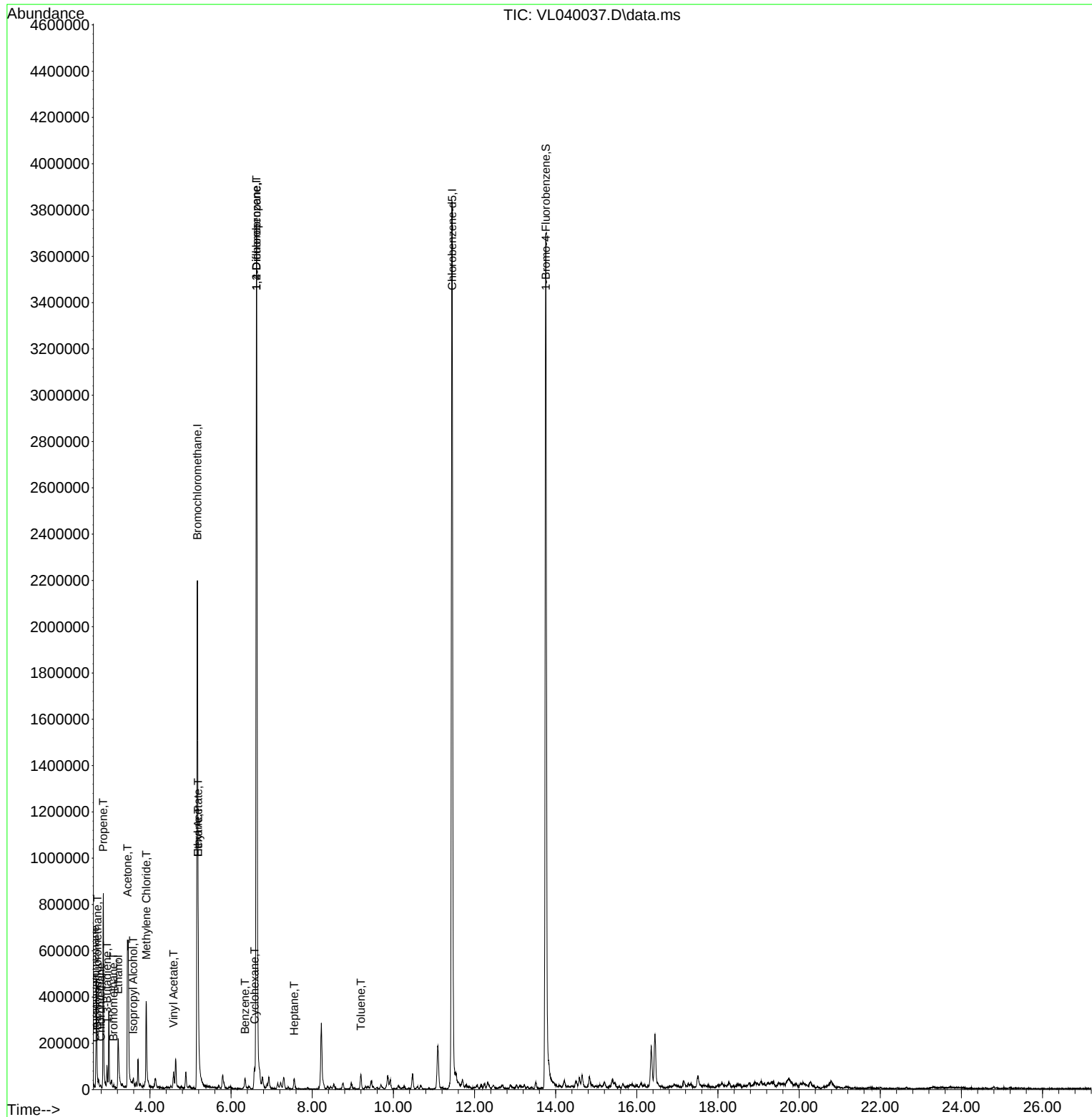
Quant Time: Dec 20 05:15:53 2022

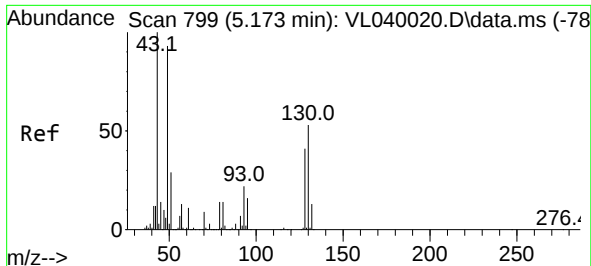
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration

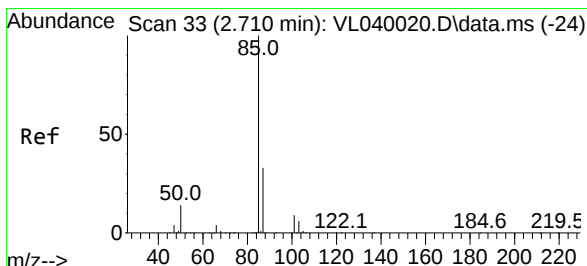
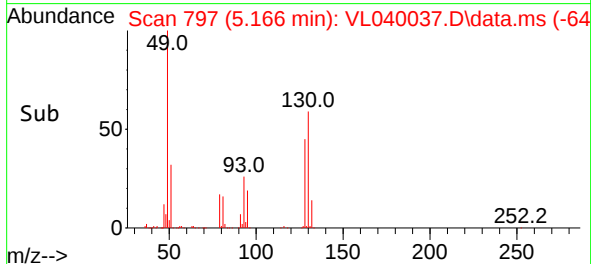
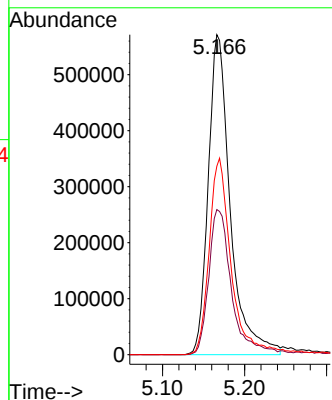
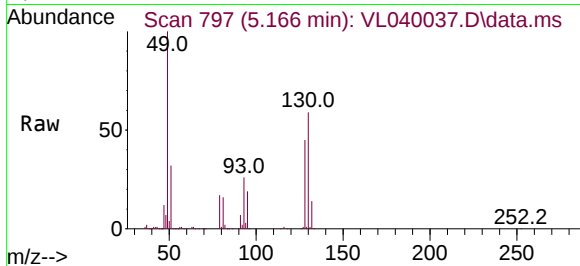




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.166 min Scan# 799  
Delta R.T. -0.007 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

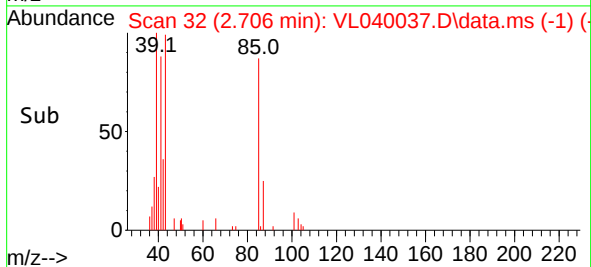
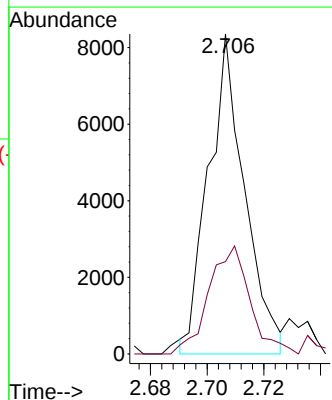
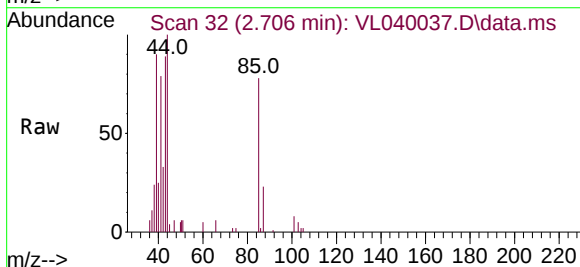
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-6DL

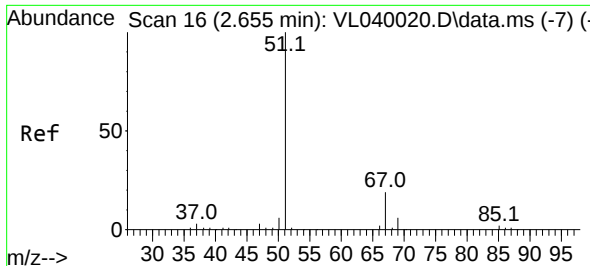
Tgt Ion: 49 Resp: 1067276  
Ion Ratio Lower Upper  
49 100  
128 48.4 22.4 67.3  
130 63.0 28.9 86.8



#2  
Dichlorodifluoromethane  
Concen: 0.037 ppbv  
RT: 2.706 min Scan# 32  
Delta R.T. -0.003 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Tgt Ion: 85 Resp: 7385  
Ion Ratio Lower Upper  
85 100  
87 27.3 26.6 40.0

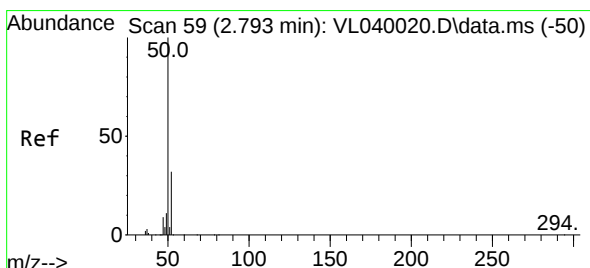
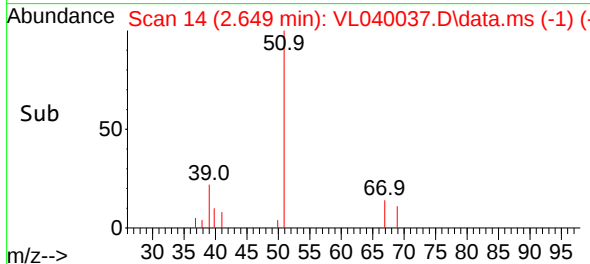
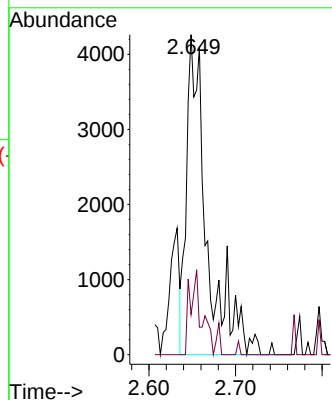
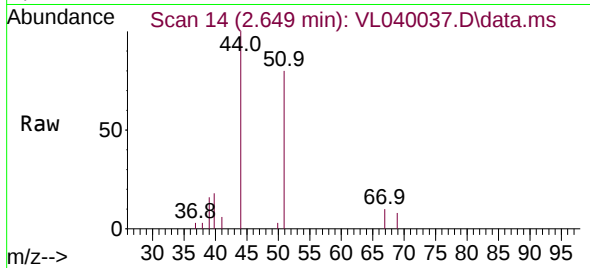




#3  
Chlorodifluoromethane  
Concen: 0.044 ppbv  
RT: 2.649 min Scan# 14  
Delta R.T. -0.006 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

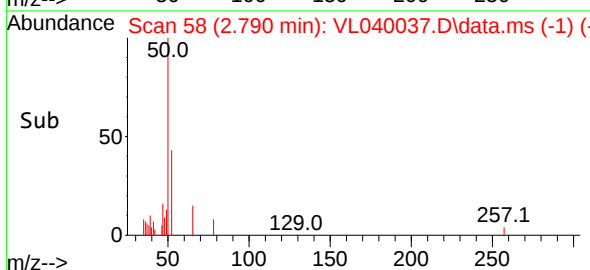
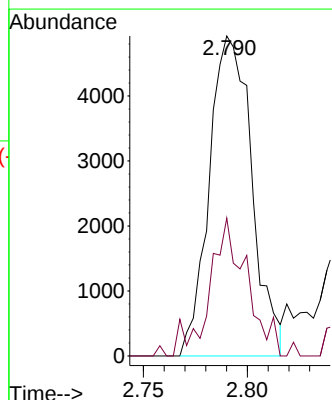
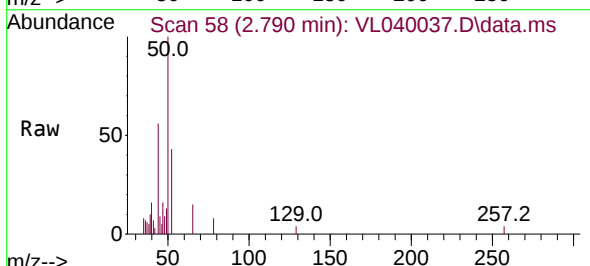
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-6DL

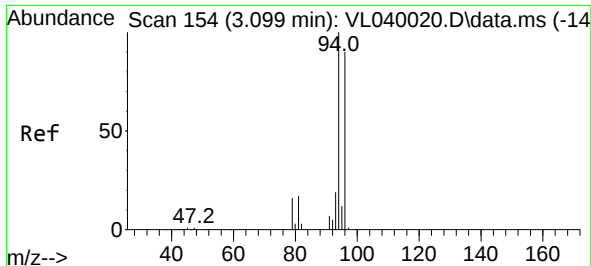
Tgt Ion: 51 Resp: 6896  
Ion Ratio Lower Upper  
51 100  
67 17.1 15.3 22.9



#4  
Chloromethane  
Concen: 0.071 ppbv  
RT: 2.790 min Scan# 58  
Delta R.T. -0.003 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Tgt Ion: 50 Resp: 7014  
Ion Ratio Lower Upper  
50 100  
52 43.1 25.5 38.3#

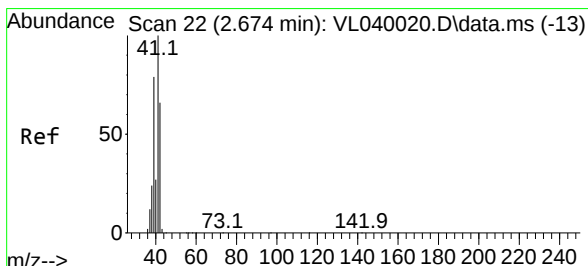
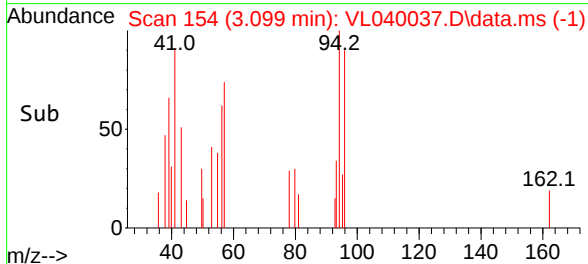
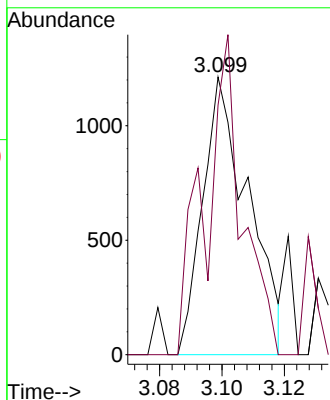
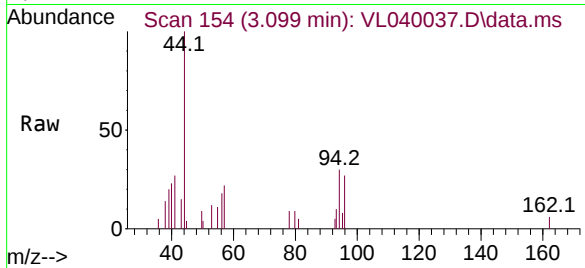




#6  
Bromomethane  
Concen: 0.042 ppbv  
RT: 3.099 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

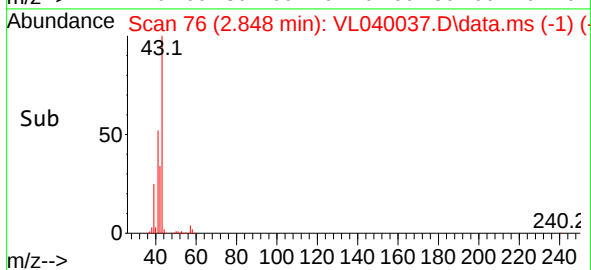
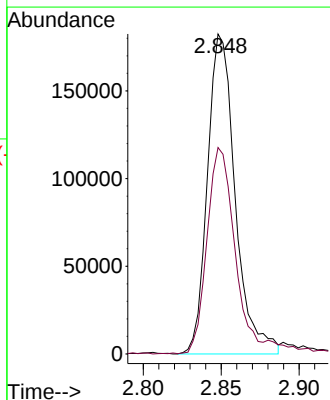
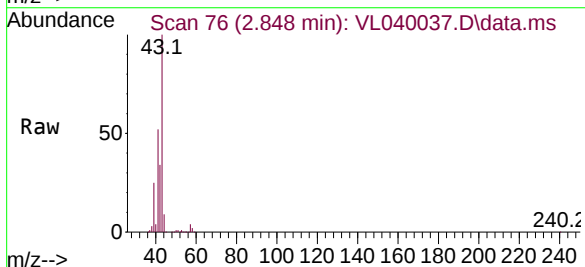
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-6DL

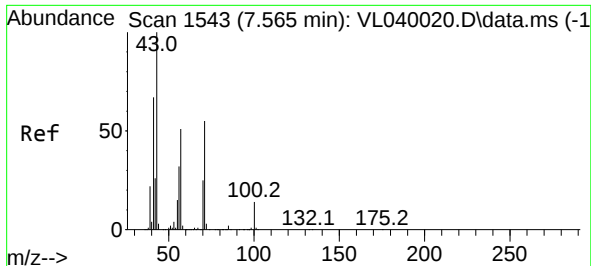
Tgt Ion: 94 Resp: 1233  
Ion Ratio Lower Upper  
94 100  
96 89.9 72.0 108.0



#9  
Propene  
Concen: 3.384 ppbv  
RT: 2.848 min Scan# 76  
Delta R.T. 0.174 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Tgt Ion: 41 Resp: 226114  
Ion Ratio Lower Upper  
41 100  
42 69.7 54.8 82.2

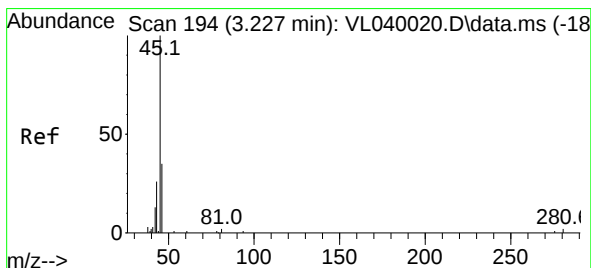
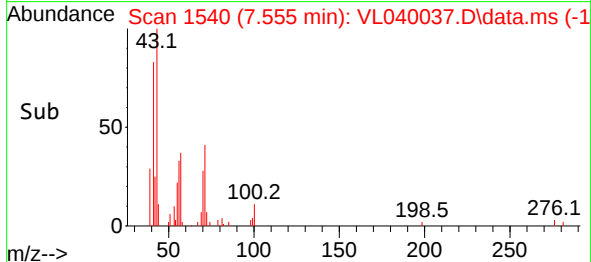
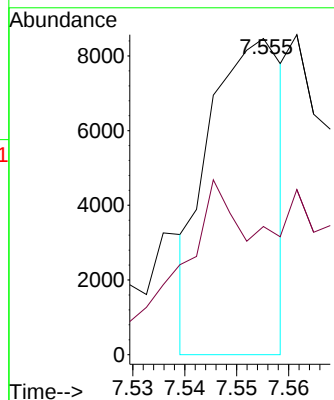
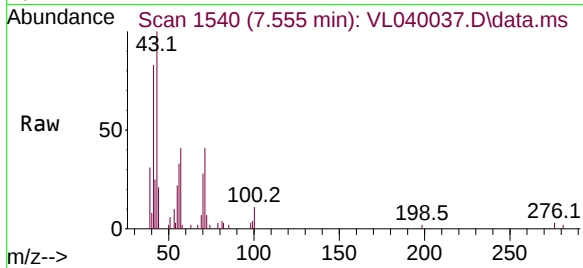




#10  
Heptane  
Concen: 0.051 ppbv  
RT: 7.555 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

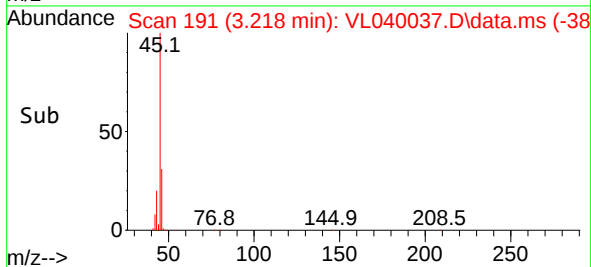
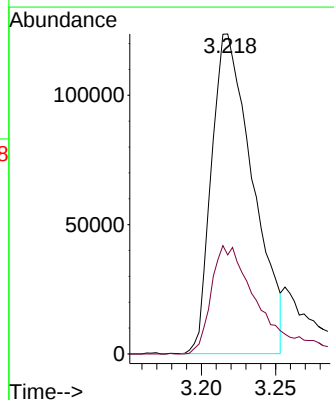
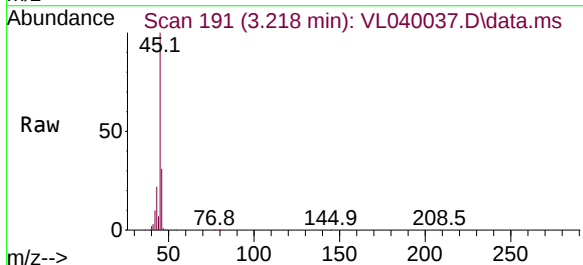
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-6DL

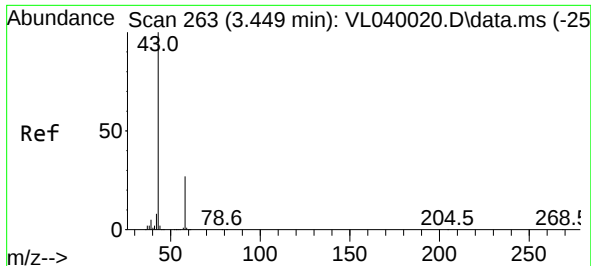
Tgt Ion: 43 Resp: 8252  
Ion Ratio Lower Upper  
43 100  
57 0.0 41.2 61.8#



#13  
Ethanol  
Concen: 37.948 ppbv  
RT: 3.218 min Scan# 191  
Delta R.T. -0.010 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Tgt Ion: 45 Resp: 238679  
Ion Ratio Lower Upper  
45 100  
46 41.8 13.7 54.7

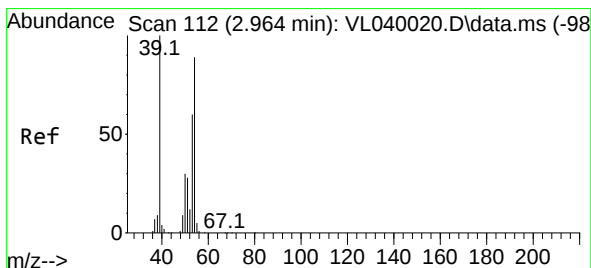
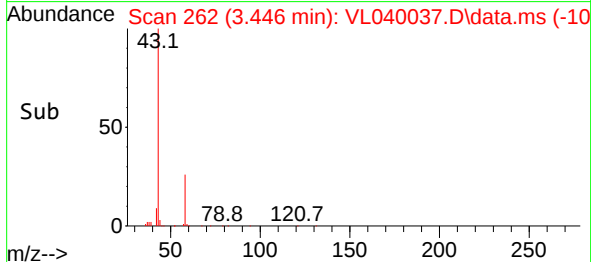
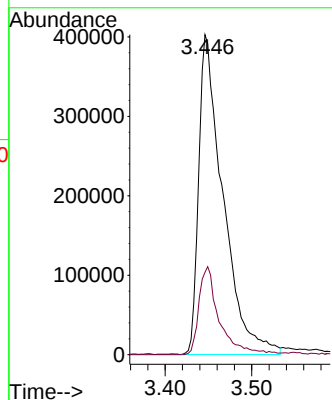
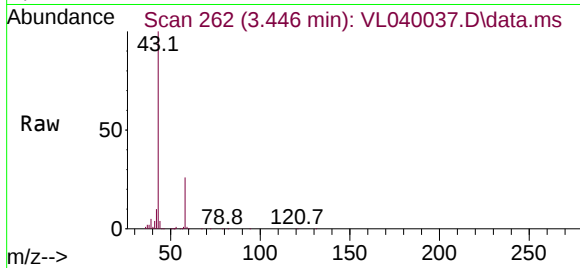




#15  
Acetone  
Concen: 4.749 ppbv  
RT: 3.446 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

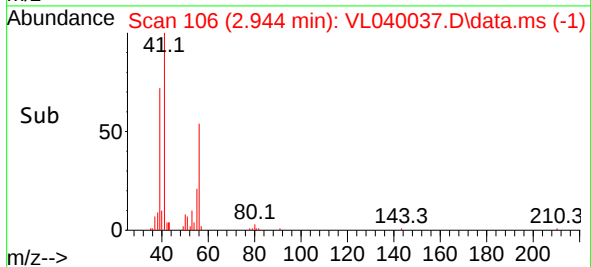
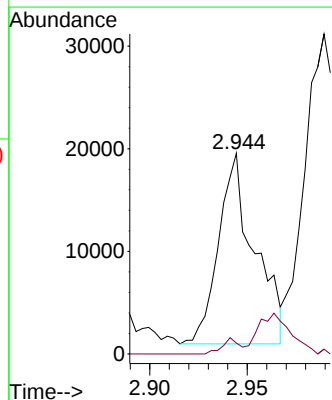
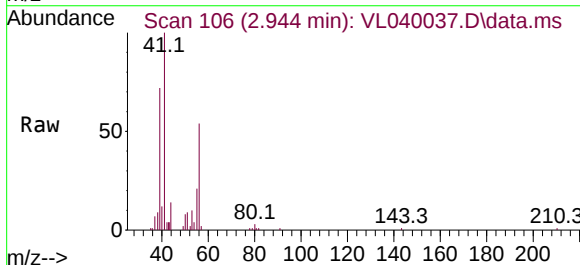
Instrument :  
MSVOA\_L  
ClientSampleId :  
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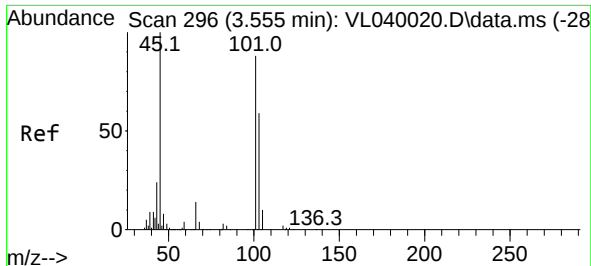
Tgt Ion: 43 Resp: 784138  
Ion Ratio Lower Upper  
43 100  
58 24.0 21.8 32.8



#16  
1,3-Butadiene  
Concen: 0.330 ppbv  
RT: 2.944 min Scan# 106  
Delta R.T. -0.019 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Tgt Ion: 39 Resp: 23718  
Ion Ratio Lower Upper  
39 100  
54 23.6 68.3 102.5#





#19

Isopropyl Alcohol

Concen: 0.036 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.032 min

Lab File: VL040037.D

Acq: 19 Dec 2022 20:50

Instrument :

MSVOA\_L

ClientSampleId :

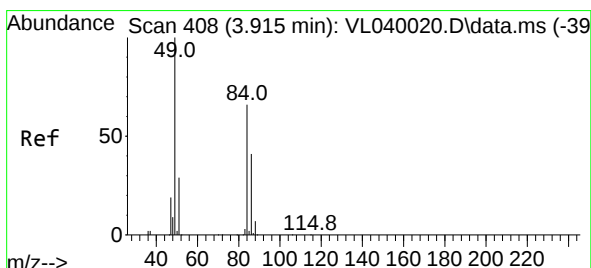
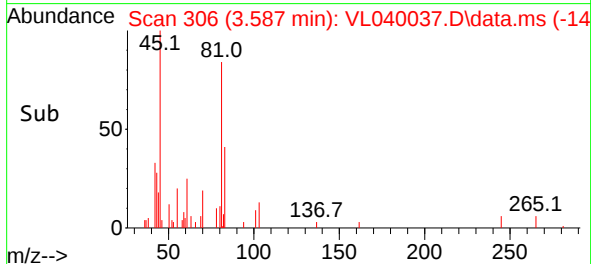
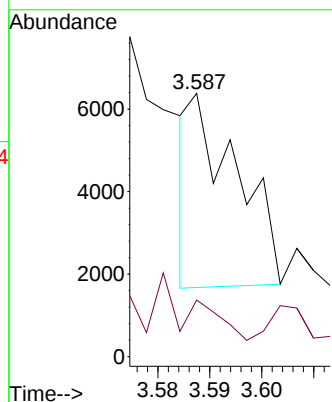
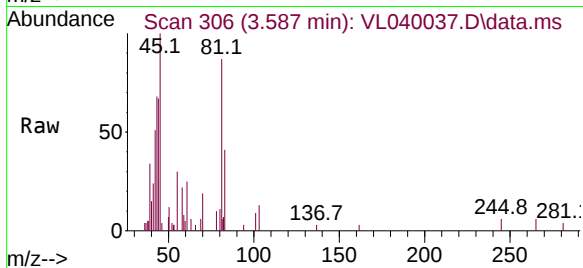
SS-6DL

Tgt Ion: 45 Resp: 2967

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#



#20

Methylene Chloride

Concen: 1.767 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.003 min

Lab File: VL040037.D

Acq: 19 Dec 2022 20:50

Tgt Ion: 84 Resp: 123980

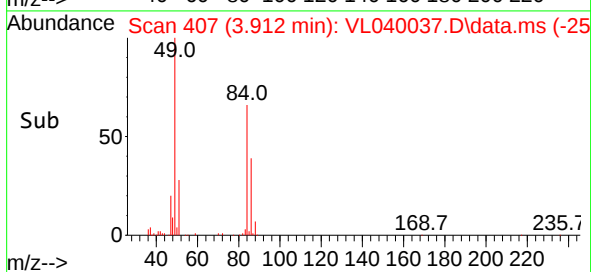
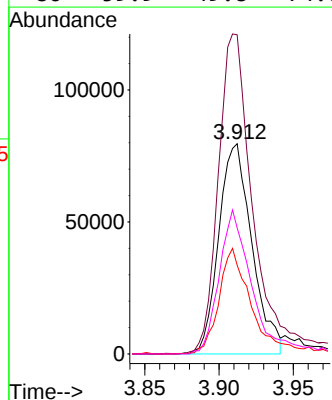
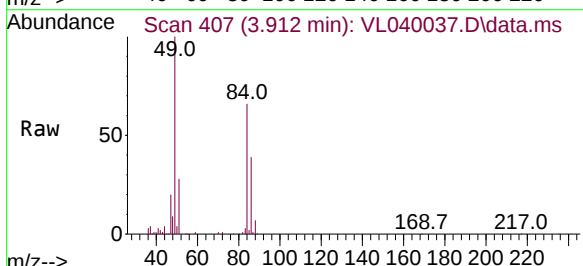
Ion Ratio Lower Upper

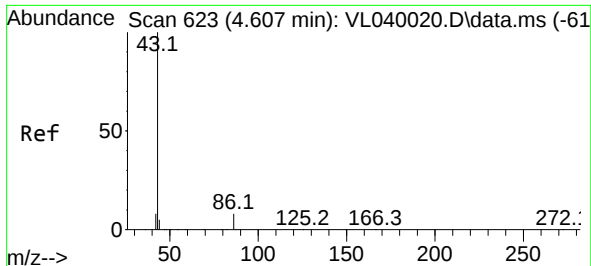
84 100

49 151.1 120.5 180.7

51 42.0 35.2 52.8

86 59.9 49.8 74.6

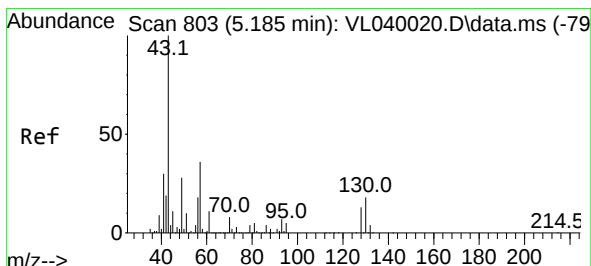
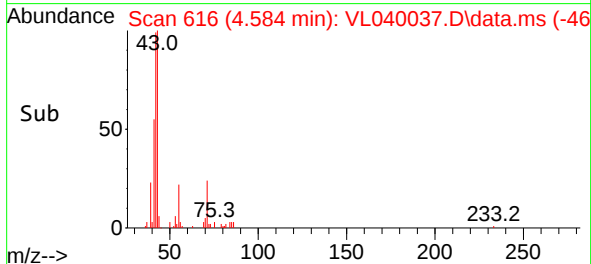
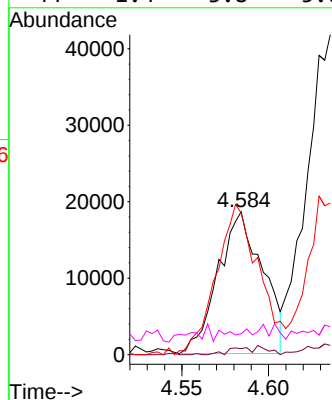
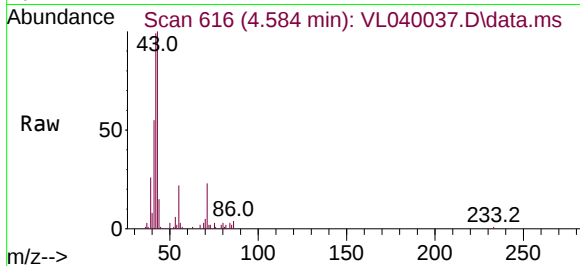




#23  
 Vinyl Acetate  
 Concen: 0.634 ppbv  
 RT: 4.584 min Scan# 616  
 Delta R.T. -0.022 min  
 Lab File: VL040037.D  
 Acq: 19 Dec 2022 20:50

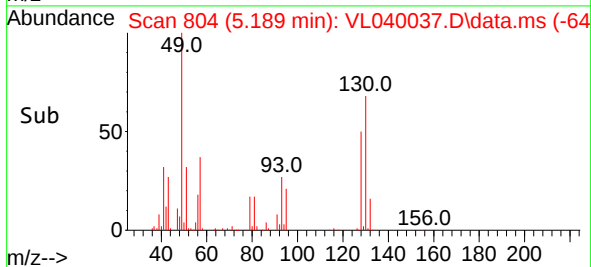
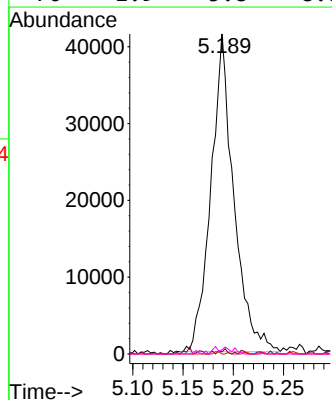
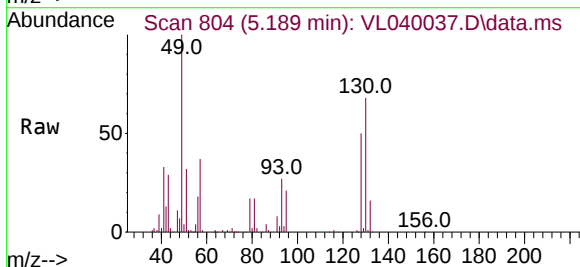
Instrument :  
 MSVOA\_L  
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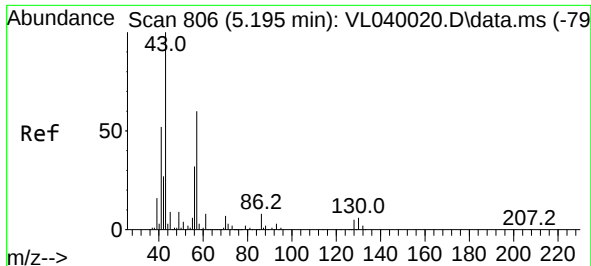
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 33169 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 4.3      | 5.3 7.9#    |
| 42 97.1     | 7.4 11.0#   |
| 44 1.4      | 3.8 5.6#    |



#25  
 Ethyl Acetate  
 Concen: 0.229 ppbv  
 RT: 5.189 min Scan# 804  
 Delta R.T. 0.003 min  
 Lab File: VL040037.D  
 Acq: 19 Dec 2022 20:50

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 43 | Resp: | 65597 |
| Ion | Ratio   | Lower | Upper |
| 43  | 100     |       |       |
| 45  | 1.1     | 8.6   | 12.8# |
| 61  | 0.2     | 8.5   | 12.7# |
| 70  | 1.9     | 5.8   | 8.8#  |

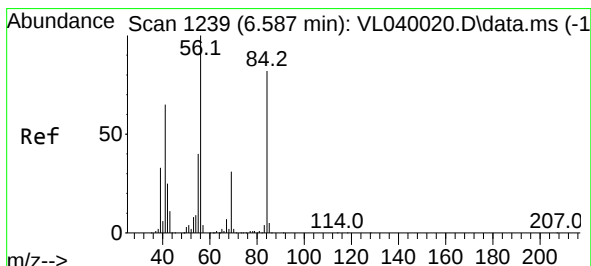
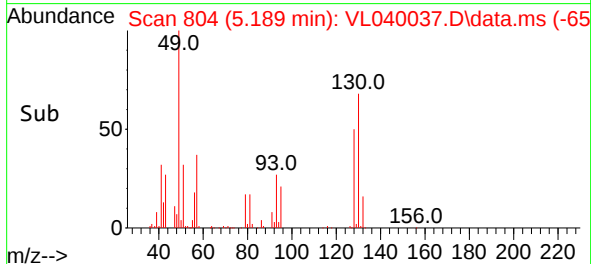
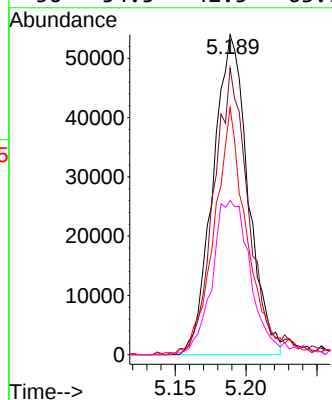
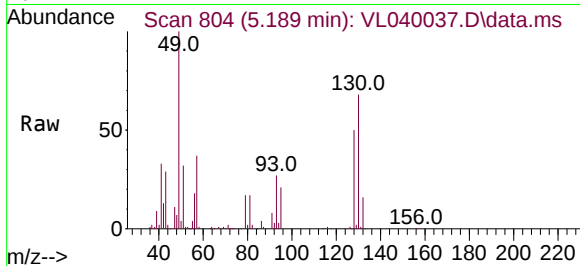




#26  
Hexane  
Concen: 0.775 ppbv  
RT: 5.189 min Scan# 804  
Delta R.T. -0.006 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

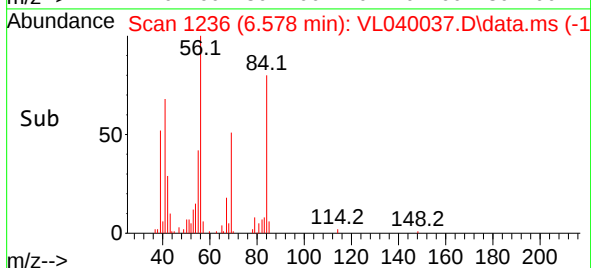
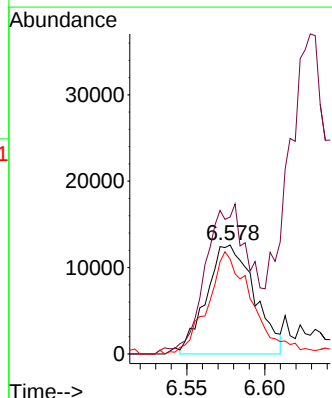
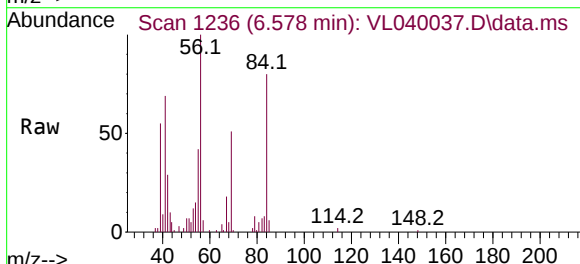
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-6DL

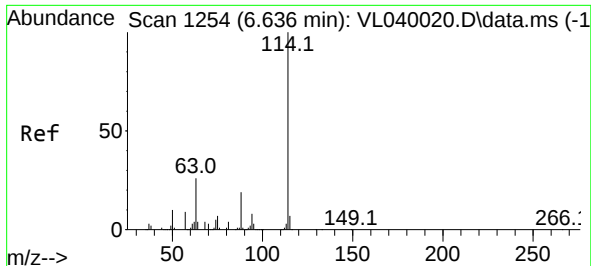
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 93121  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 91.1  | 72.1  | 108.1  |
| 43       | 74.9  | 192.1 | 288.1# |
| 56       | 54.5  | 42.5  | 63.7   |



#30  
Cyclohexane  
Concen: 0.252 ppbv  
RT: 6.578 min Scan# 1236  
Delta R.T. -0.010 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 26866 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 56       | 130.7 | 110.2 | 165.4 |
| 41       | 89.3  | 67.8  | 101.8 |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 1164

Delta R.T. -0.006 min

Lab File: VL040037.D

Acq: 19 Dec 2022 20:50

Instrument :

MSVOA\_L

ClientSampleId :

SS-6DL

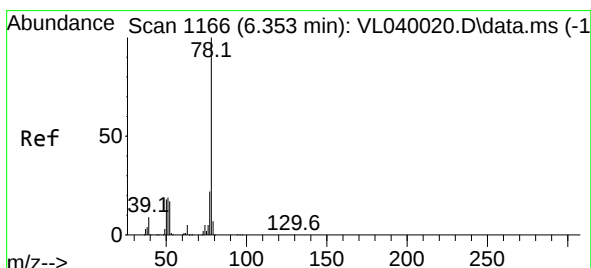
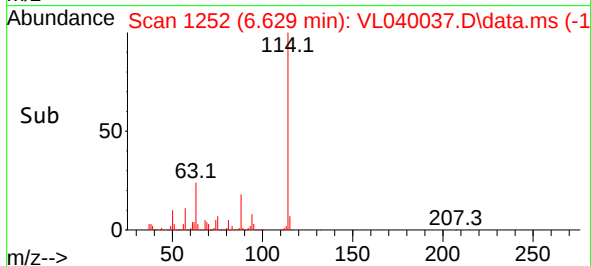
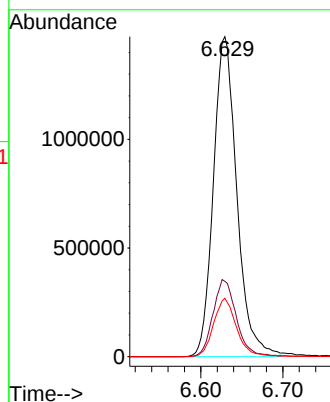
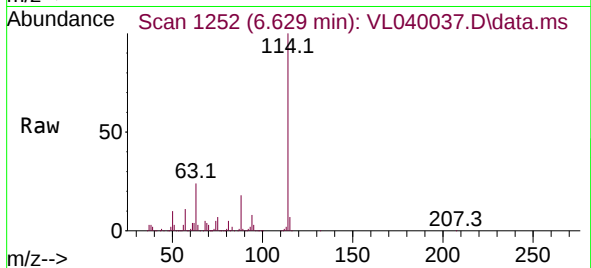
Tgt Ion:114 Resp: 2929615

Ion Ratio Lower Upper

114 100

63 24.4 20.2 30.2

88 18.0 14.6 21.8



#36

Benzene

Concen: 0.117 ppbv

RT: 6.346 min Scan# 1164

Delta R.T. -0.006 min

Lab File: VL040037.D

Acq: 19 Dec 2022 20:50

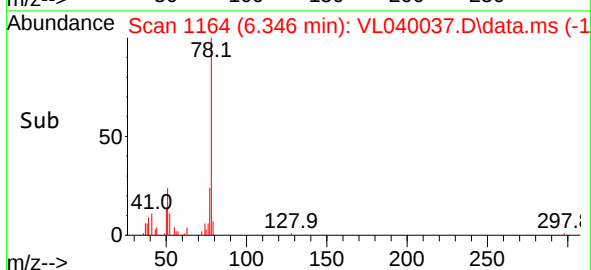
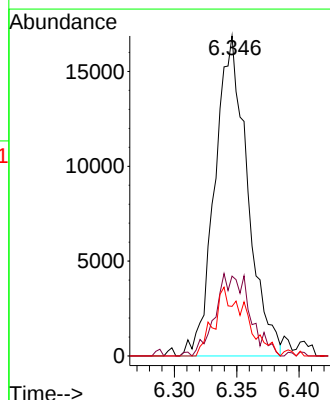
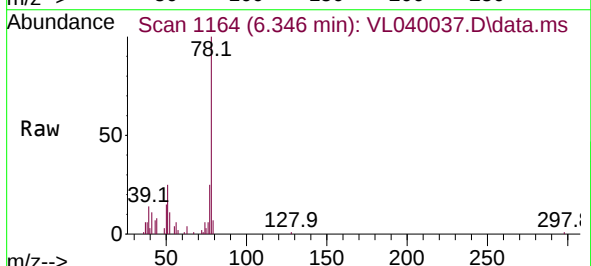
Tgt Ion: 78 Resp: 30721

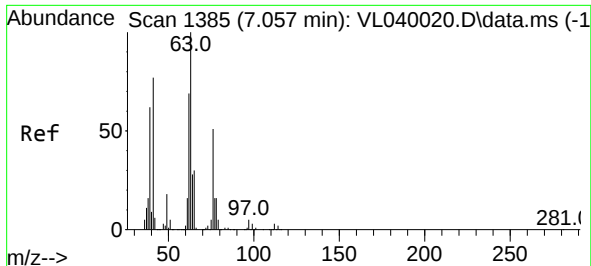
Ion Ratio Lower Upper

78 100

77 24.9 17.5 26.3

50 15.5 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.124 ppbv

RT: 6.626 min Scan# 11

Delta R.T. -0.431 min

Lab File: VL040037.D

Acq: 19 Dec 2022 20:50

Instrument :

MSVOA\_L

ClientSampleId :

SS-6DL

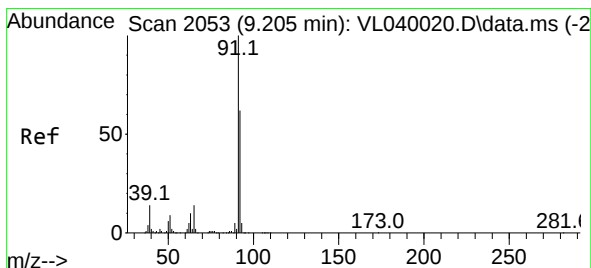
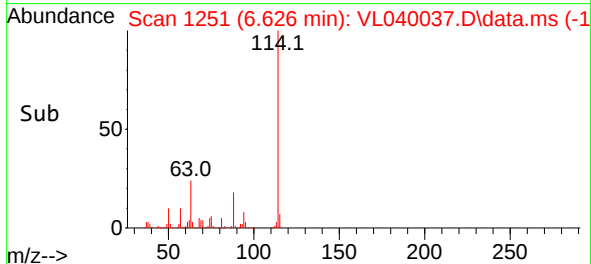
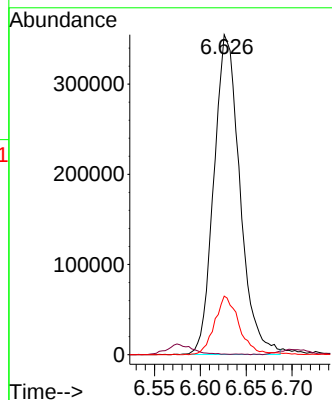
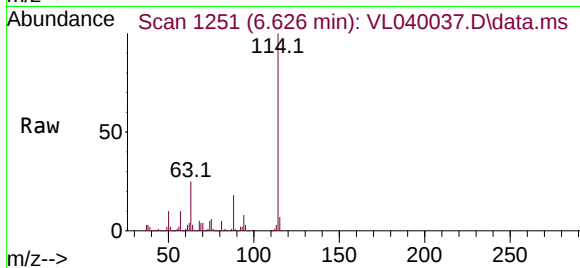
Tgt Ion: 63 Resp: 698644

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 18.3 55.4 83.2#



#53

Toluene

Concen: 0.157 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. -0.006 min

Lab File: VL040037.D

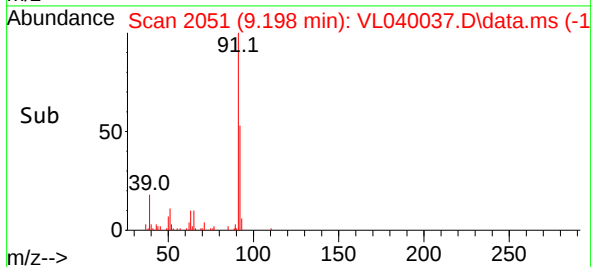
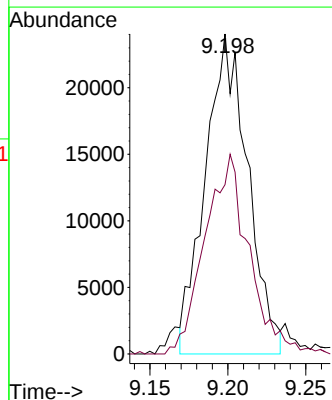
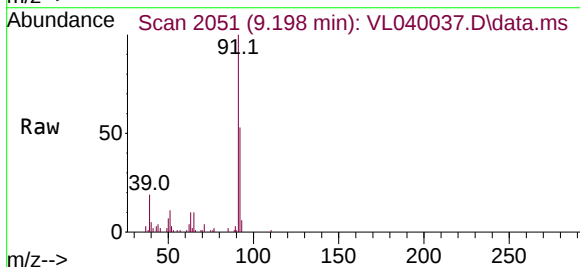
Acq: 19 Dec 2022 20:50

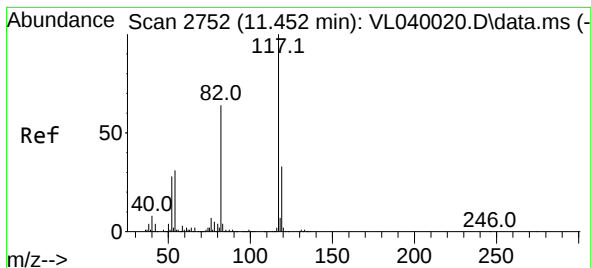
Tgt Ion: 91 Resp: 45575

Ion Ratio Lower Upper

91 100

92 64.8 48.7 73.1

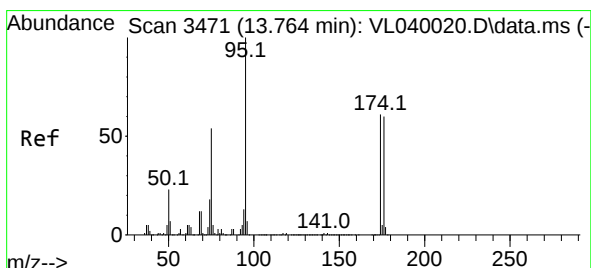
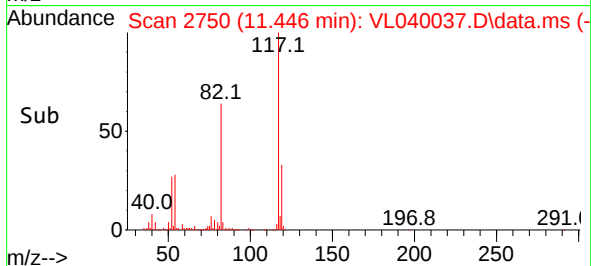
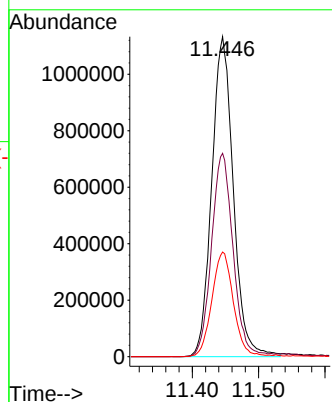
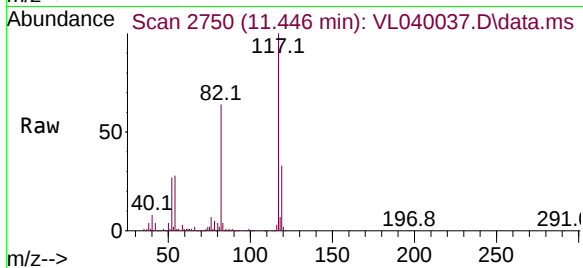




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.446 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-6DL

Tgt Ion:117 Resp: 2558755  
Ion Ratio Lower Upper  
117 100  
82 65.1 51.2 76.8  
119 32.9 23.2 34.8



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.888 ppbv  
RT: 13.757 min Scan# 3469  
Delta R.T. -0.006 min  
Lab File: VL040037.D  
Acq: 19 Dec 2022 20:50

Tgt Ion: 95 Resp: 1932618  
Ion Ratio Lower Upper  
95 100  
174 63.2 48.6 73.0  
175 4.4 3.4 5.2

