

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL010923\  
 Data File : VL040073.D  
 Acq On : 9 Jan 2023 13:16  
 Operator : SY/MD  
 Sample : VL0109ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

Quant Time: Jan 09 21:30:26 2023  
 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   | 5.192  | 49   | 1113727  | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 6.658  | 114  | 3085206  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 11.478 | 117  | 2979040  | 10.000 | ppbv  | 0.03     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.790 | 95    | 2332608  | 10.250   | ppbv | 0.03     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.500% |

| Target Compounds              |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.716 | 85  | 1932321 | 9.269  | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.661 | 51  | 1282766 | 7.806  | ppbv   | 98     |
| 4) Chloromethane              | 2.800 | 50  | 816886  | 7.934  | ppbv   | 96     |
| 5) Vinyl Chloride             | 2.909 | 62  | 710294  | 8.526  | ppbv   | 99     |
| 6) Bromomethane               | 3.108 | 94  | 241970  | 7.905  | ppbv   | 95     |
| 7) Chloroethane               | 3.189 | 64  | 263504  | 8.384  | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 2.845 | 85  | 1698801 | 7.745  | ppbv   | 100    |
| 9) Propene                    | 2.681 | 41  | 580636  | 8.326  | ppbv   | 100    |
| 10) Heptane                   | 7.584 | 43  | 1426414 | 8.381  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.555 | 101 | 1740638 | 7.684  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 1286332 | 7.498  | ppbv   | 96     |
| 13) Ethanol                   | 3.234 | 45  | 39604   | 6.034  | ppbv   | 81     |
| 14) Bromoethene               | 3.359 | 108 | 535766  | 8.293  | ppbv   | 100    |
| 15) Acetone                   | 3.459 | 43  | 1302244 | 7.559  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.973 | 39  | 646306  | 8.630  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 3.874 | 59  | 1291901 | 7.606  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 3.874 | 96  | 596915  | 7.993  | ppbv   | 95     |
| 19) Isopropyl Alcohol         | 3.568 | 45  | 649273  | 7.647  | ppbv # | 98     |
| 20) Methylene Chloride        | 3.928 | 84  | 530773  | 7.248  | ppbv   | 97     |
| 21) Allyl Chloride            | 3.989 | 41  | 912496  | 8.814  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.443 | 96  | 628622  | 8.446  | ppbv   | 96     |
| 23) Vinyl Acetate             | 4.623 | 43  | 485257  | 8.884  | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 1268913 | 7.911  | ppbv   | 100    |
| 25) Ethyl Acetate             | 5.205 | 43  | 2487687 | 8.337  | ppbv   | 99     |
| 26) Hexane                    | 5.211 | 57  | 1090033 | 8.692  | ppbv   | 96     |
| 27) Carbon Disulfide          | 4.118 | 76  | 1571602 | 9.936  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 4.584 | 73  | 1186512 | 8.028  | ppbv   | 100    |
| 29) Chloroform                | 5.275 | 83  | 1745173 | 9.119  | ppbv   | 98     |
| 30) Cyclohexane               | 6.603 | 84  | 951652  | 8.569  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 992385  | 8.309  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.005 | 97  | 1803793 | 8.804  | ppbv   | 100    |
| 34) 2-Butanone                | 4.783 | 43  | 1431566 | 8.553  | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 6.500 | 117 | 1894487 | 9.886  | ppbv   | 95     |
| 36) Benzene                   | 6.375 | 78  | 2380862 | 8.641  | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.809 | 62  | 1369423 | 8.472  | ppbv   | 100    |
| 38) Trichloroethene           | 7.298 | 130 | 1355759 | 9.575  | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 7.079 | 63  | 899356  | 8.708  | ppbv   | 97     |
| 40) 1,4-Dioxane               | 7.291 | 88  | 365541  | 7.853  | ppbv   | 82     |
| 41) Tetrahydrofuran           | 5.562 | 42  | 920765  | 8.814  | ppbv   | 100    |
| 42) Bromodichloromethane      | 7.253 | 83  | 2034790 | 9.189  | ppbv   | 97     |
| 43) Methyl Methacrylate       | 7.478 | 69  | 948774  | 9.175  | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.333 | 57  | 3862141 | 8.514  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 8.719 | 75  | 932618  | 10.671 | ppbv   | 99     |

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 Operator : SY/MD  
 Sample : VL0109ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

Quant Time: Jan 09 21:30:26 2023  
 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) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.150  | 75   | 1255223  | 10.183 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.905  | 97   | 962300   | 8.508  | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.719  | 129  | 1646639  | 9.573  | ppbv   | 100      |
| 49) Bromoform                 | 12.420 | 173  | 1261505  | 9.614  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.188  | 43   | 2350297  | 8.596  | ppbv   | 99       |
| 51) 2-Hexanone                | 9.561  | 43   | 1835751  | 8.631  | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.626 | 164  | 807337   | 8.618  | ppbv   | 96       |
| 53) Toluene                   | 9.230  | 91   | 2678339  | 8.779  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.018 | 107  | 1091103  | 8.958  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.520 | 131  | 1148831  | 8.360  | ppbv   | 97       |
| 57) Chlorobenzene             | 11.539 | 112  | 1995533  | 7.891  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.098 | 91   | 3515836  | 8.306  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.384 | 91   | 2454838  | 6.657  | ppbv # | 5        |
| 60) o-Xylene                  | 13.069 | 91   | 2787091  | 7.890  | ppbv   | 99       |
| 61) Styrene                   | 12.909 | 104  | 1658168  | 8.752  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.040 | 105  | 3903779  | 7.665  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.060 | 83   | 895535   | 6.915  | ppbv   | 99       |
| 64) n-propylbenzene           | 14.931 | 120  | 987691   | 7.678  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.101 | 119  | 3324093  | 7.511  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.342 | 91   | 258067   | 9.999  | ppbv   | 96       |
| 67) sec-Butylbenzene          | 16.651 | 105  | 4625869  | 7.458  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.008 | 119  | 3758718  | 7.586  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.899 | 91   | 3923214  | 7.558  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.812 | 91   | 2943186  | 7.574  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.211 | 105  | 3101520  | 7.907  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 2717458  | 7.682  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 2911989  | 7.468  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 16.342 | 146  | 1627087  | 7.626  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.487 | 146  | 1583094  | 7.600  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.156 | 146  | 1561397  | 7.631  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.651 | 225  | 1137116  | 8.011  | ppbv # | 100      |
| 79) Naphthalene               | 21.403 | 128  | 2390680  | 10.289 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.390 | 142  | 524100   | 7.373  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.153 | 180  | 1223135  | 8.863  | ppbv   | 99       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VL0109ABS01

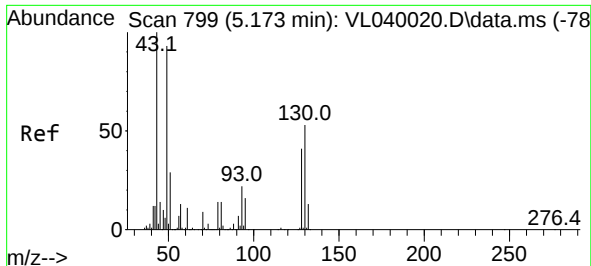
Abundance

TIC: VL040073.D\data.ms

Time-->

Chemical compounds identified in the chromatogram (from left to right):

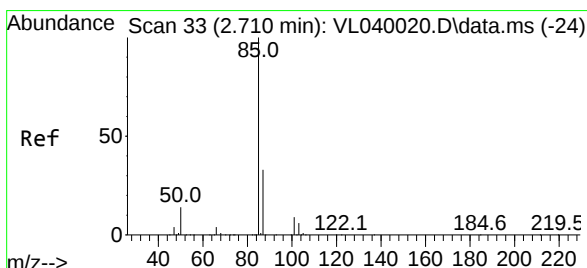
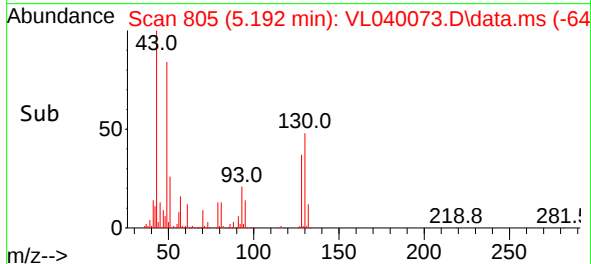
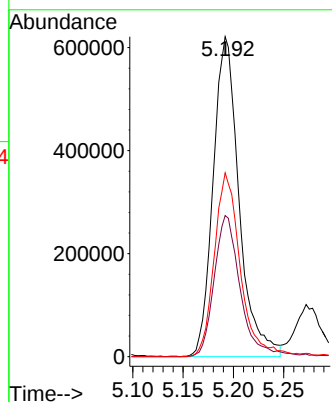
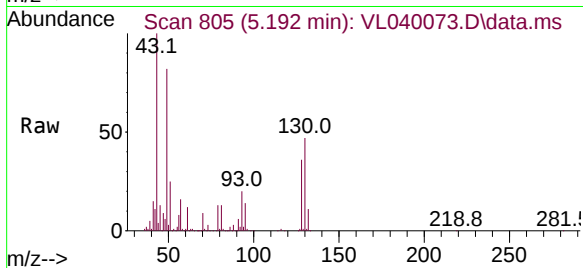
- Dichlorodifluoromethane, T
- Dichlorotrifluoroethane, T
- 1,3-Butadiene, T
- Trichlorofluoromethane, T
- Isopropyl Alcohol, T
- Carbon Disulfide, T
- Vinyl Acetate, T
- 2-Butanone, T
- cis-1,2-Dichloroethene, T
- Tetrahydrofuran, T
- 1,2-Dichloroethane, T
- 1,1,1-Trichloroethane, T
- Benzene, T
- Cyclohexane, T
- 1,2-Dichloropropane, T
- 1,2-Dichloroethane, T
- Methyl Methacrylate, T
- cis-1,3-Dichloropropene, T
- 1,1,2-Trichloroethane, T
- 2-Hexanone, T
- Dibromochloromethane, T
- 1,2-Dibromoethane, T
- Tetrachloroethene, T
- Chlorobenzene, T
- 1,4-Dichlorobenzene, T
- Bromobenzene, T
- m/p-Xylene, T
- Styrene, T
- 1,1,2,2-Tetrachloroethane, T
- 1-Bromo-4-Fluorobenzene, S
- Isopropylbenzene, T
- 2-Chloropropylbenzene, T
- 4-Ethyltoluene, T
- 1,1,5-Trichlorobenzene, T
- 1,4-Dichlorobenzene, T
- 1,2-Dichlorobenzene, T
- sec-Butylbenzene, T
- p-Isopropyltoluene, T
- n-Butylbenzene, T
- Hexachloro-1,3-Butadiene, T
- Naphthalene, 2-methyl-, T



#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 80  
Delta R.T. 0.019 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

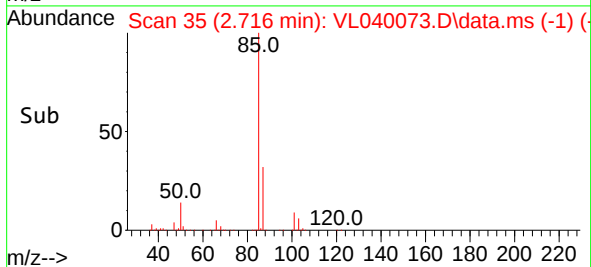
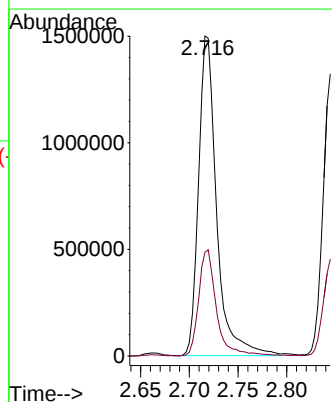
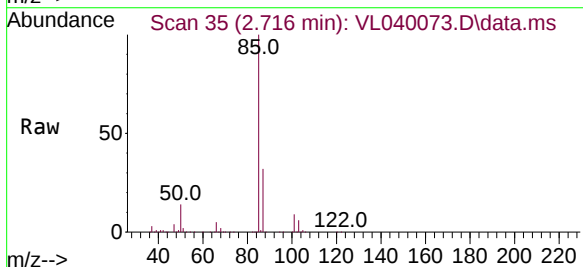
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

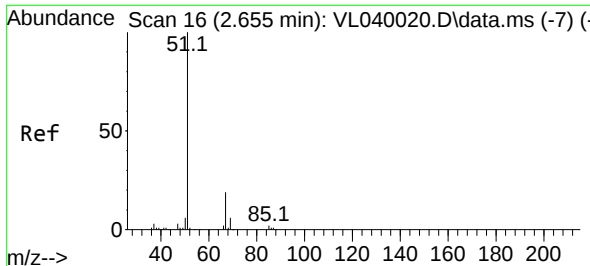
Tgt Ion: 49 Resp: 1113727  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.4 67.3  
130 58.6 28.9 86.8



#2  
Dichlorodifluoromethane  
Concen: 9.269 ppbv  
RT: 2.716 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 85 Resp: 1932321  
Ion Ratio Lower Upper  
85 100  
87 32.5 26.6 40.0

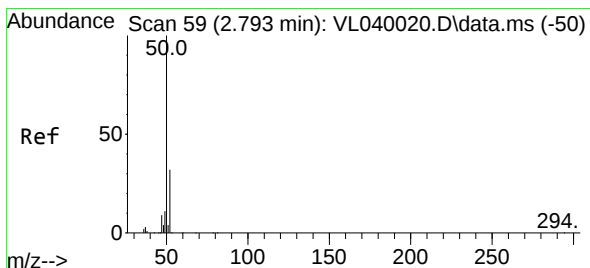
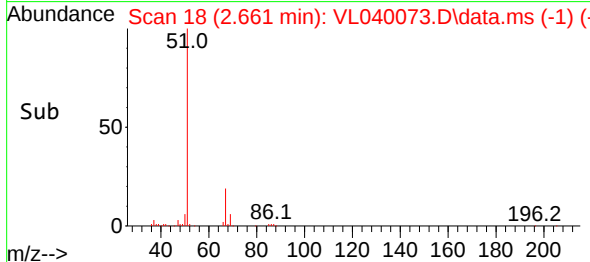
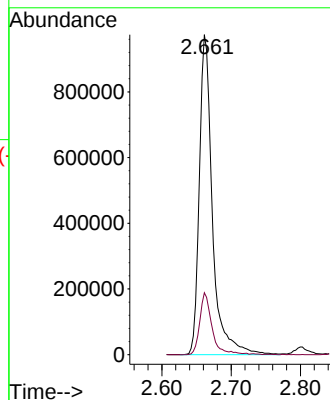
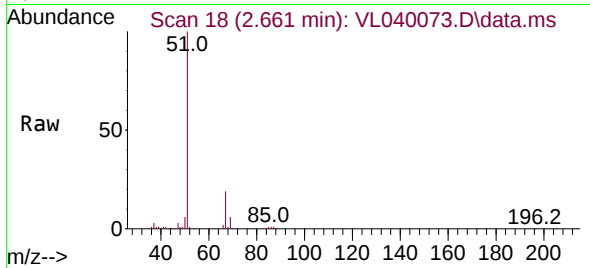




#3  
Chlorodifluoromethane  
Concen: 7.806 ppbv  
RT: 2.661 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

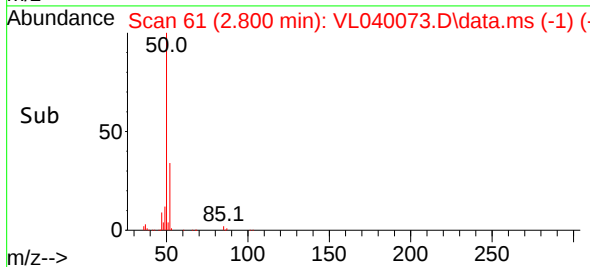
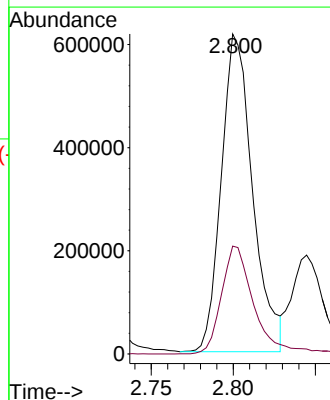
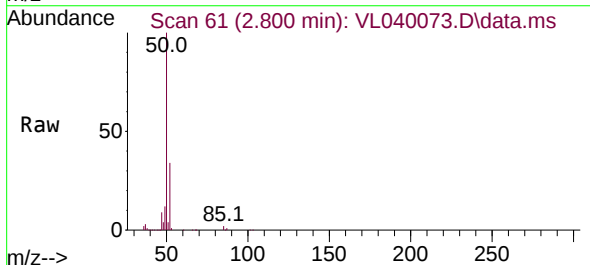
Instrument :  
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ClientSampleId :  
VL0109ABS01

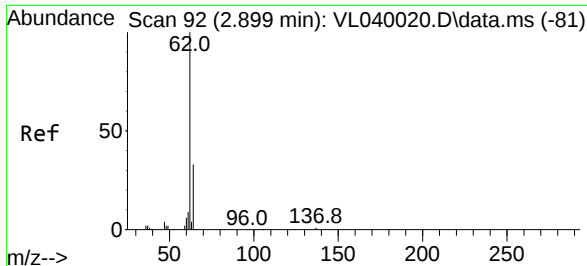
Tgt Ion: 51 Resp: 1282766  
Ion Ratio Lower Upper  
51 100  
67 18.3 15.3 22.9



#4  
Chloromethane  
Concen: 7.934 ppbv  
RT: 2.800 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 50 Resp: 816886  
Ion Ratio Lower Upper  
50 100  
52 33.9 25.5 38.3

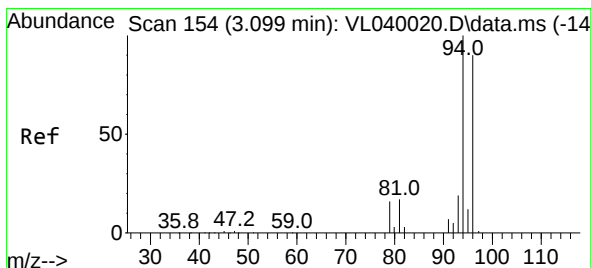
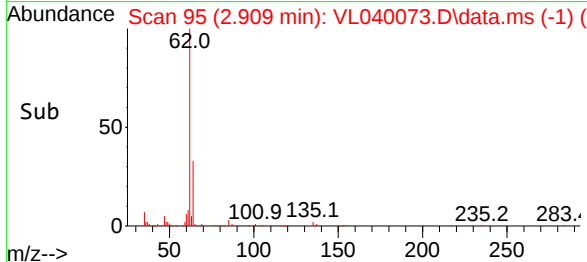
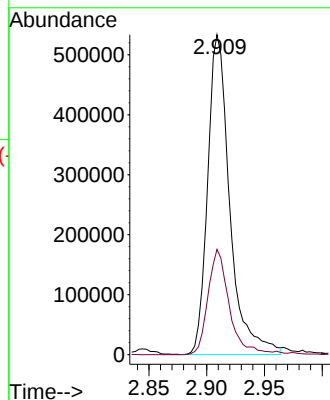
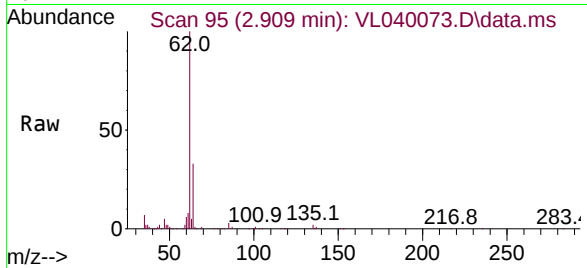




#5  
 Vinyl Chloride  
 Concen: 8.526 ppbv  
 RT: 2.909 min Scan# 91  
 Delta R.T. 0.010 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

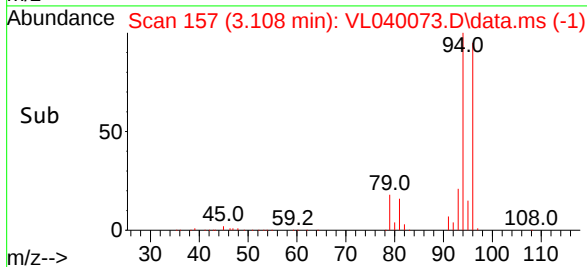
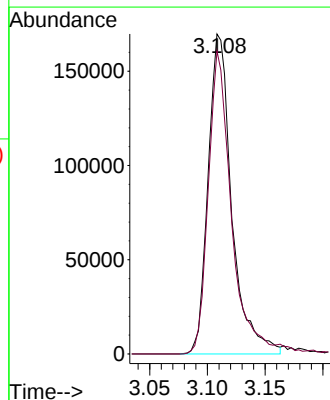
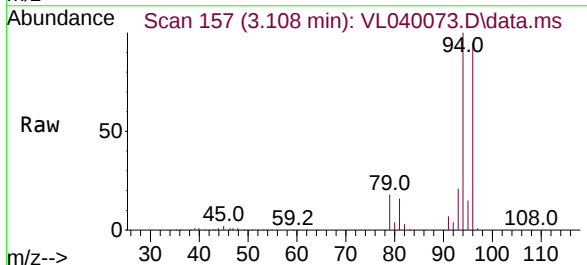
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

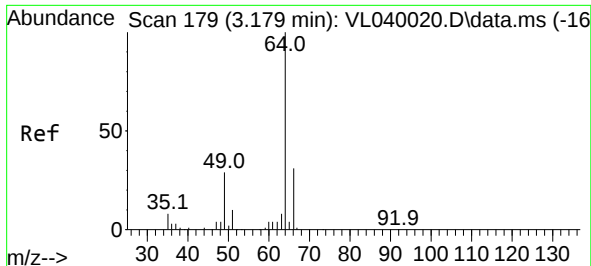
Tgt Ion: 62 Resp: 710294  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 26.1 39.1



#6  
 Bromomethane  
 Concen: 7.905 ppbv  
 RT: 3.108 min Scan# 157  
 Delta R.T. 0.010 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion: 94 Resp: 241970  
 Ion Ratio Lower Upper  
 94 100  
 96 94.6 72.0 108.0

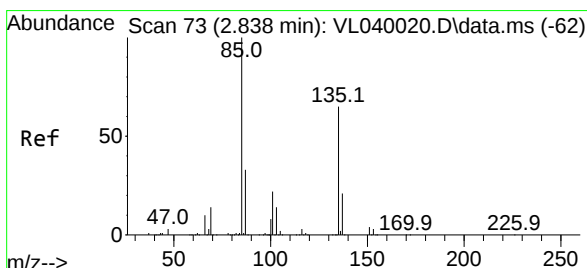
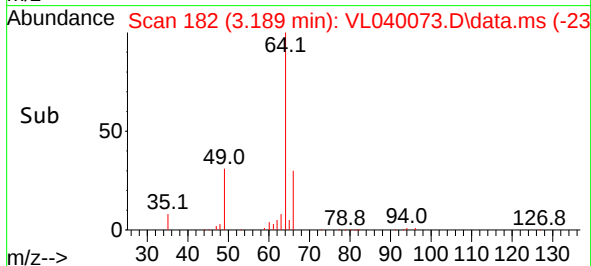
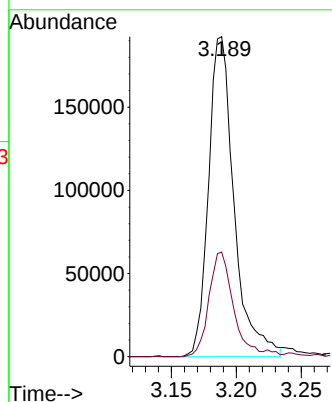
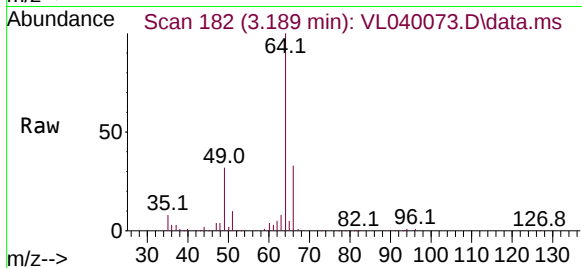




#7  
Chloroethane  
Concen: 8.384 ppbv  
RT: 3.189 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

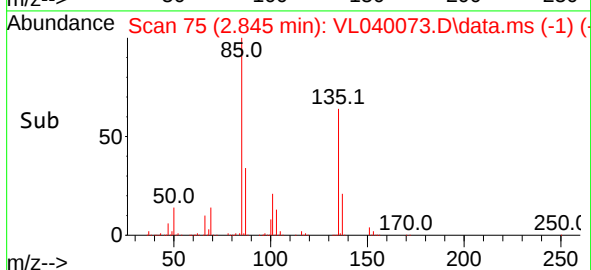
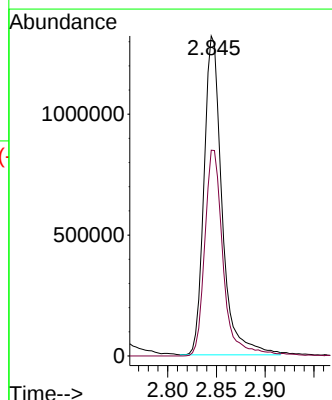
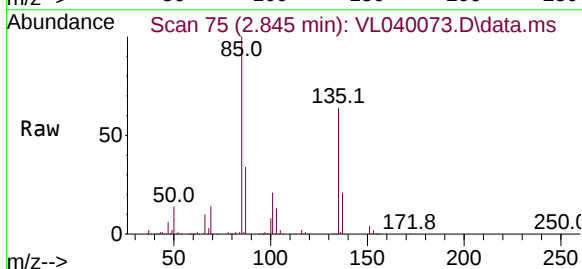
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

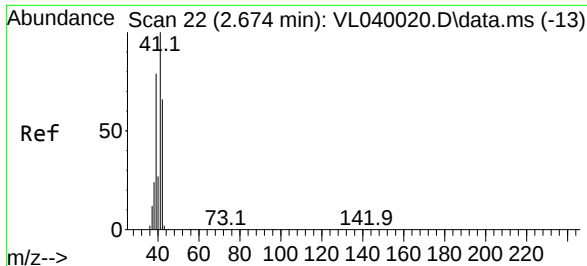
Tgt Ion: 64 Resp: 263504  
Ion Ratio Lower Upper  
64 100  
66 32.7 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 7.745 ppbv  
RT: 2.845 min Scan# 75  
Delta R.T. 0.006 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 85 Resp: 1698801  
Ion Ratio Lower Upper  
85 100  
135 66.6 53.2 79.8

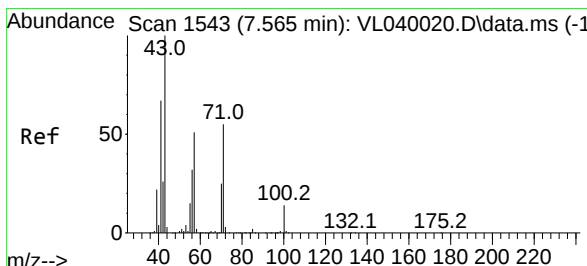
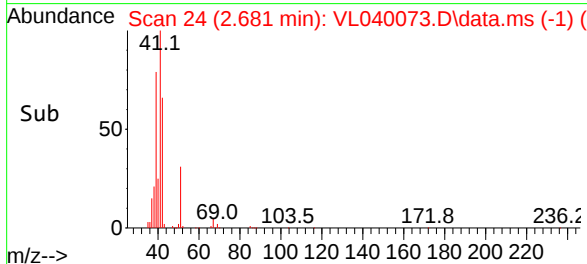
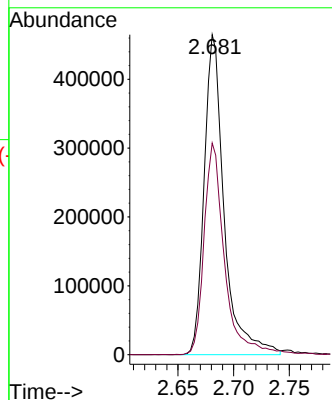
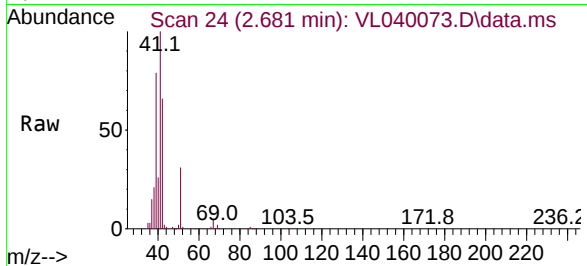




#9  
 Propene  
 Concen: 8.326 ppbv  
 RT: 2.681 min Scan# 24  
 Delta R.T. 0.006 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

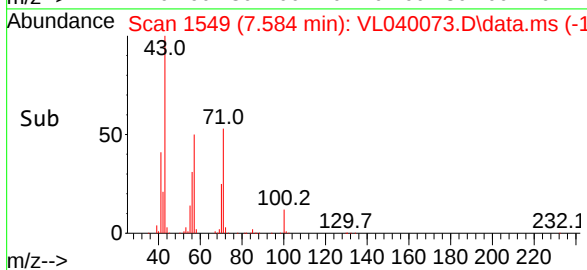
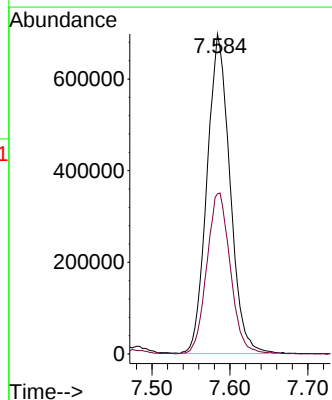
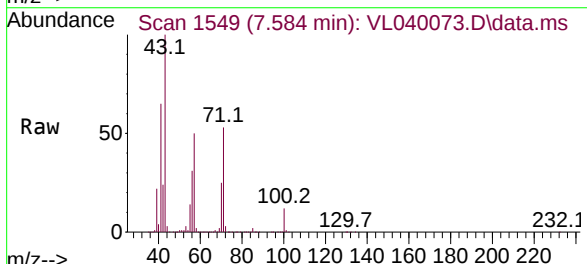
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

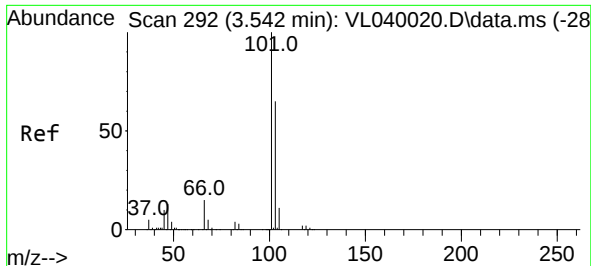
Tgt Ion: 41 Resp: 580636  
 Ion Ratio Lower Upper  
 41 100  
 42 68.3 54.8 82.2



#10  
 Heptane  
 Concen: 8.381 ppbv  
 RT: 7.584 min Scan# 1549  
 Delta R.T. 0.019 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion: 43 Resp: 1426414  
 Ion Ratio Lower Upper  
 43 100  
 57 52.0 41.2 61.8

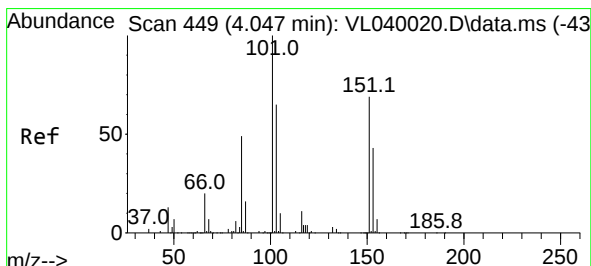
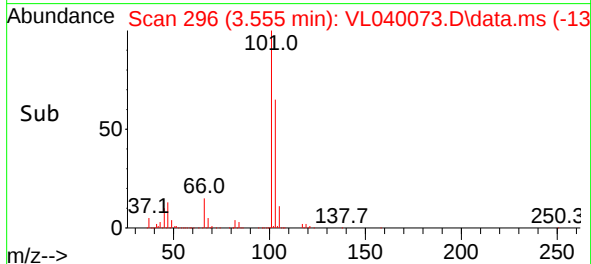
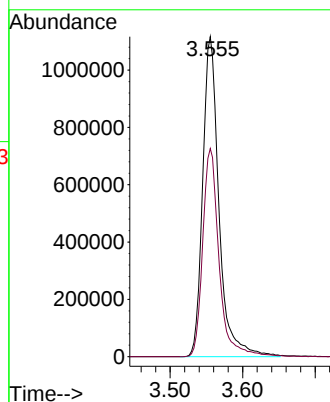
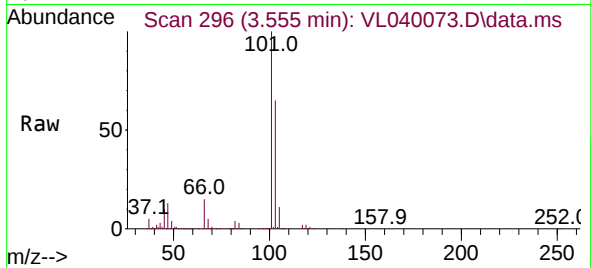




#11  
 Trichlorofluoromethane  
 Concen: 7.684 ppbv  
 RT: 3.555 min Scan# 29  
 Delta R.T. 0.013 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

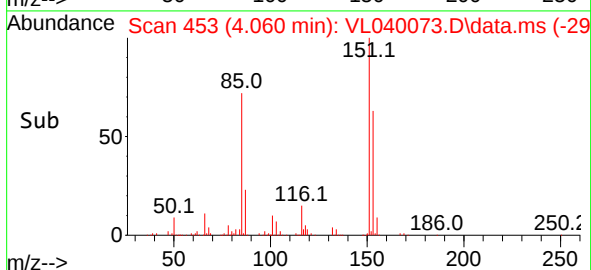
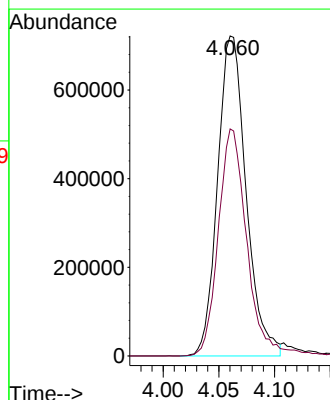
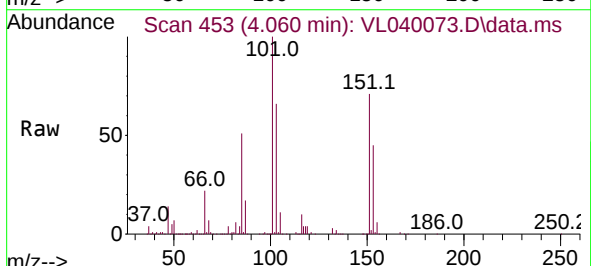
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

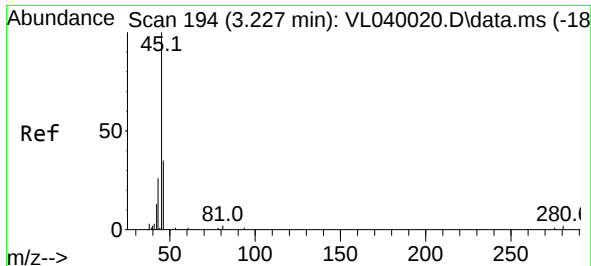
Tgt Ion:101 Resp: 1740638  
 Ion Ratio Lower Upper  
 101 100  
 103 65.0 51.7 77.5



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 7.498 ppbv  
 RT: 4.060 min Scan# 453  
 Delta R.T. 0.013 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion:101 Resp: 1286332  
 Ion Ratio Lower Upper  
 101 100  
 151 71.6 55.0 82.4

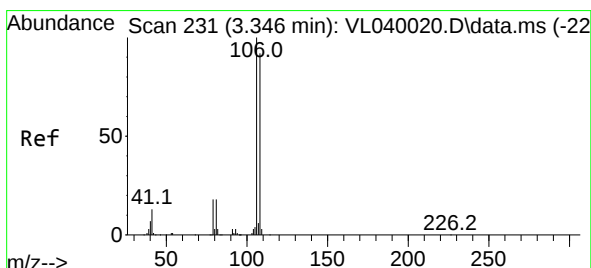
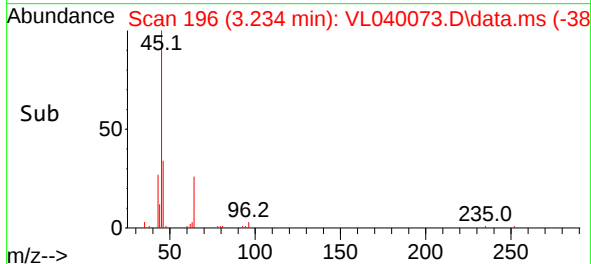
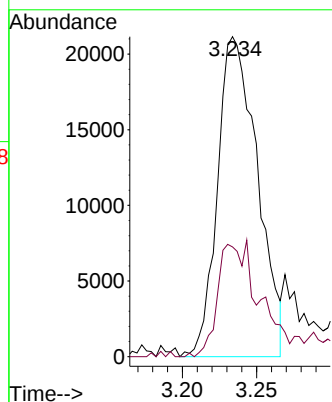
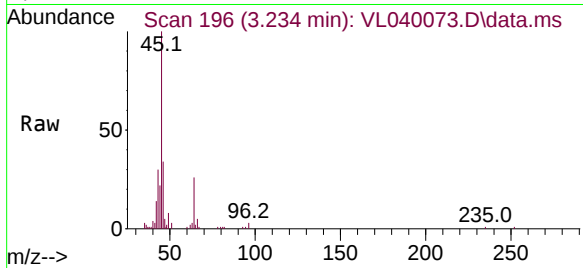




#13  
Ethanol  
Concen: 6.034 ppbv  
RT: 3.234 min Scan# 194  
Delta R.T. 0.006 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

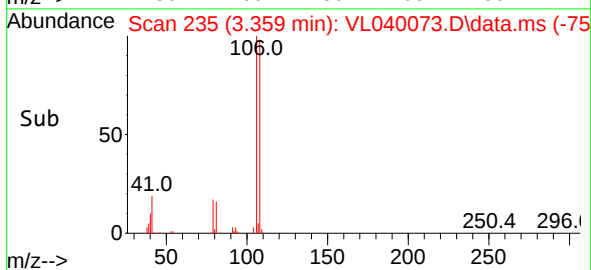
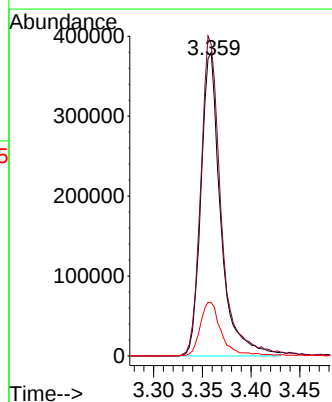
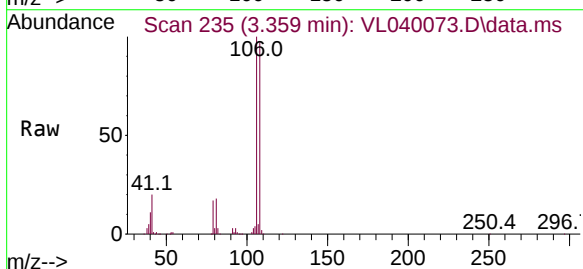
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

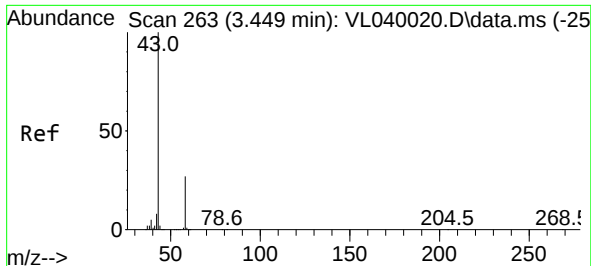
Tgt Ion: 45 Resp: 39604  
Ion Ratio Lower Upper  
45 100  
46 45.4 13.7 54.7



#14  
Bromoethene  
Concen: 8.293 ppbv  
RT: 3.359 min Scan# 235  
Delta R.T. 0.013 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion:108 Resp: 535766  
Ion Ratio Lower Upper  
108 100  
106 109.6 87.5 131.3  
79 19.7 15.8 23.8

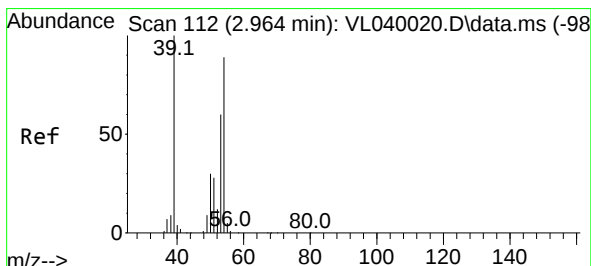
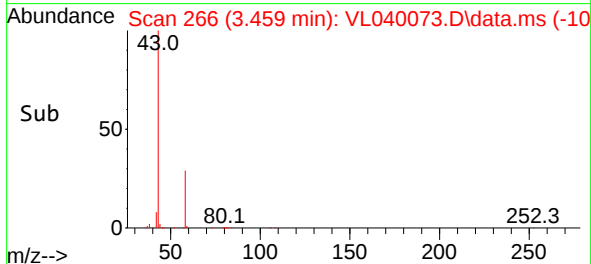
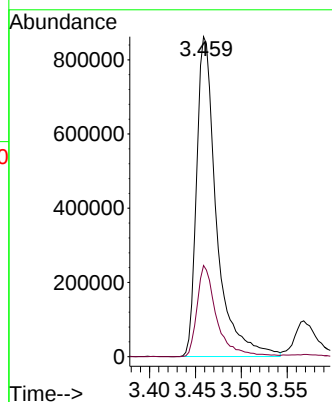
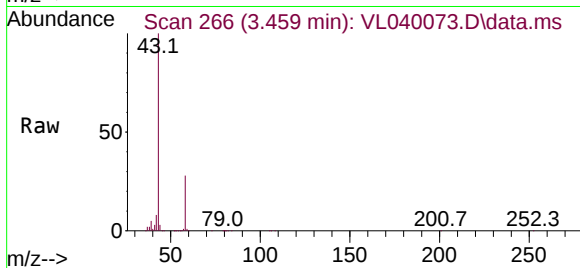




#15  
Acetone  
Concen: 7.559 ppbv  
RT: 3.459 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

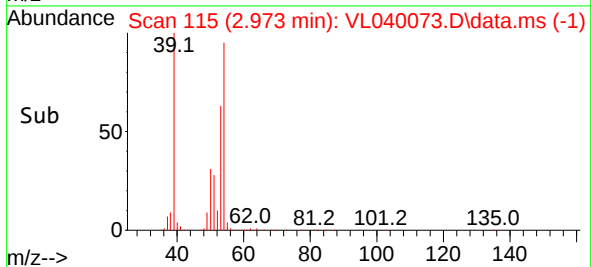
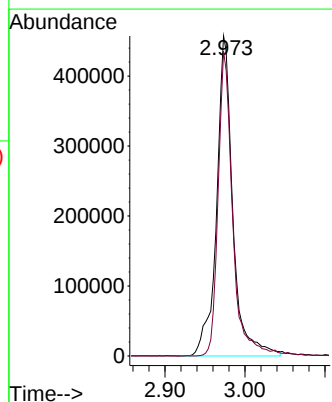
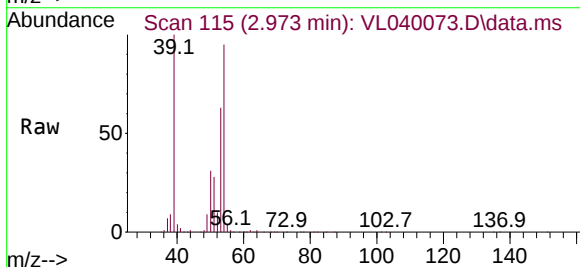
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

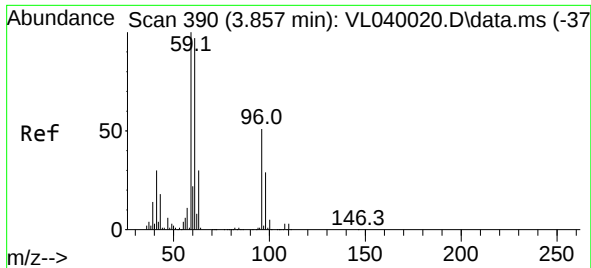
Tgt Ion: 43 Resp: 1302244  
Ion Ratio Lower Upper  
43 100  
58 28.1 21.8 32.8



#16  
1,3-Butadiene  
Concen: 8.630 ppbv  
RT: 2.973 min Scan# 115  
Delta R.T. 0.010 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 39 Resp: 646306  
Ion Ratio Lower Upper  
39 100  
54 85.4 68.3 102.5

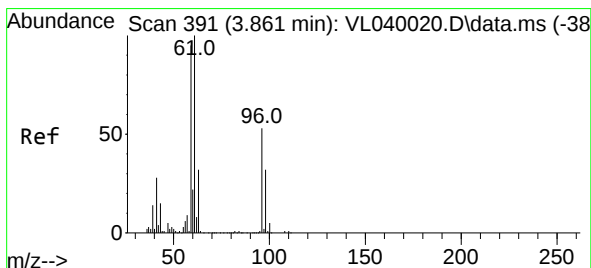
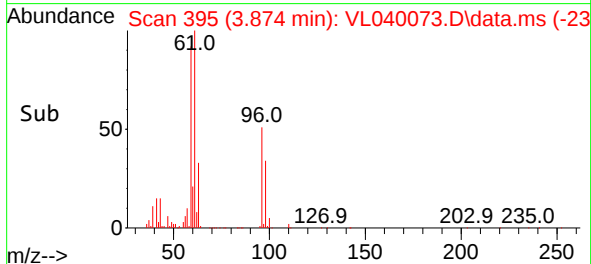
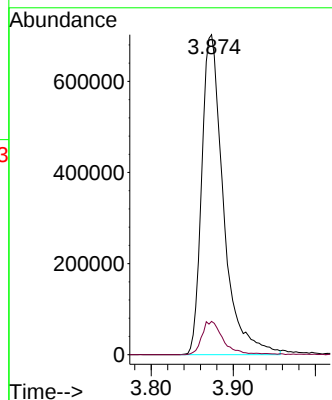
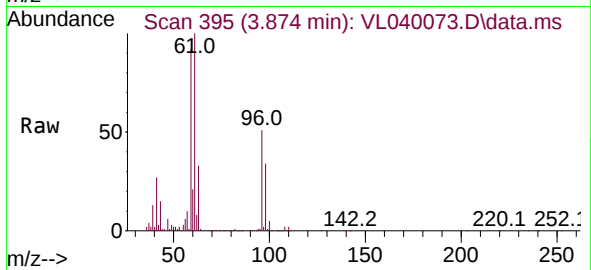




#17  
tert-Butyl alcohol  
Concen: 7.606 ppbv  
RT: 3.874 min Scan# 395  
Delta R.T. 0.016 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

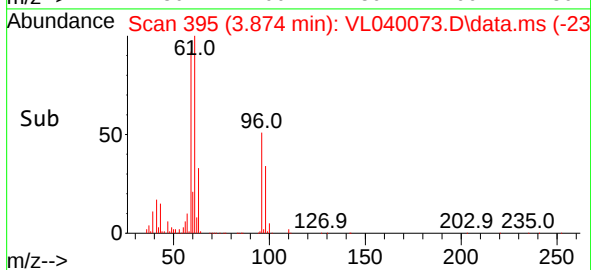
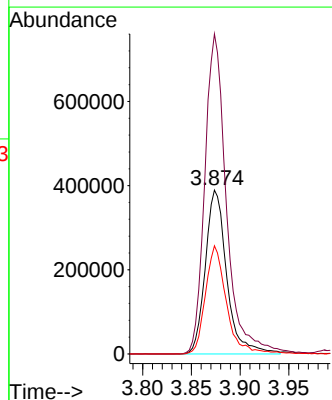
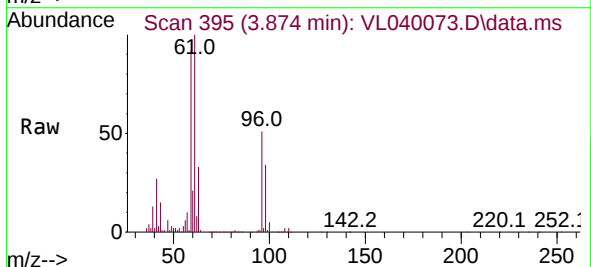
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

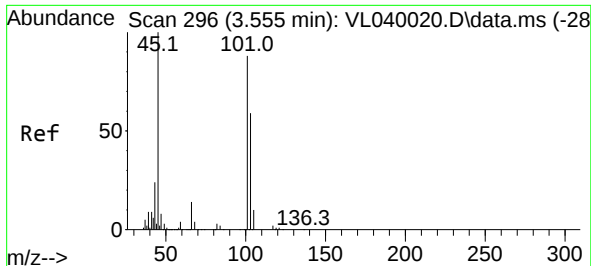
Tgt Ion: 59 Resp: 1291901  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.4 12.6



#18  
1,1-Dichloroethene  
Concen: 7.993 ppbv  
RT: 3.874 min Scan# 395  
Delta R.T. 0.013 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 96 Resp: 596915  
Ion Ratio Lower Upper  
96 100  
61 195.2 151.0 226.6  
98 66.0 47.7 71.5





#19

Isopropyl Alcohol

Concen: 7.647 ppbv

RT: 3.568 min Scan# 30

Delta R.T. 0.013 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

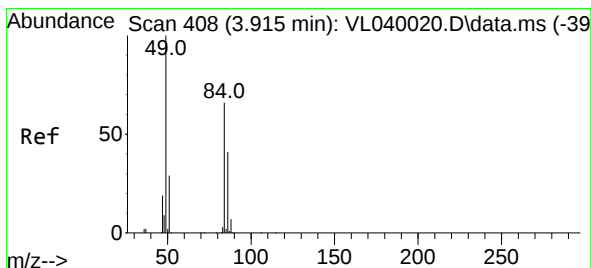
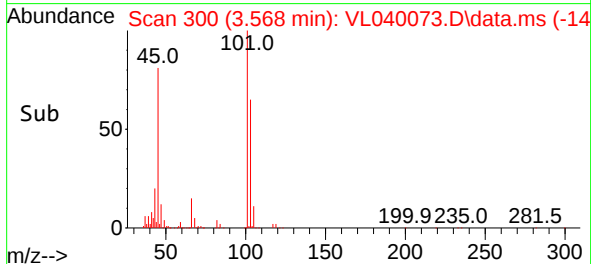
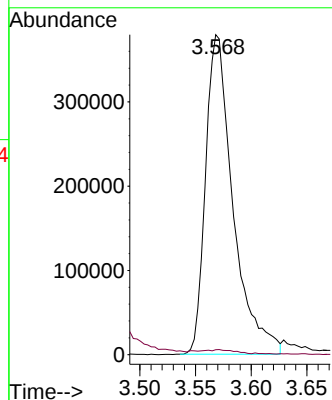
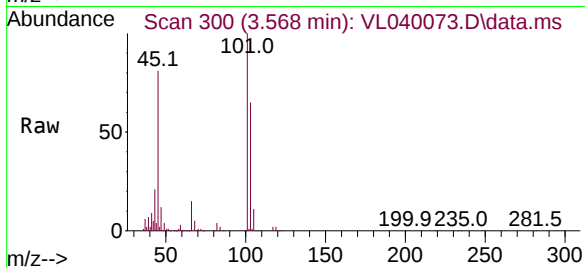
VL0109ABS01

Tgt Ion: 45 Resp: 649273

Ion Ratio Lower Upper

45 100

58 2.8 1.7 2.5#



#20

Methylene Chloride

Concen: 7.248 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.013 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Tgt Ion: 84 Resp: 530773

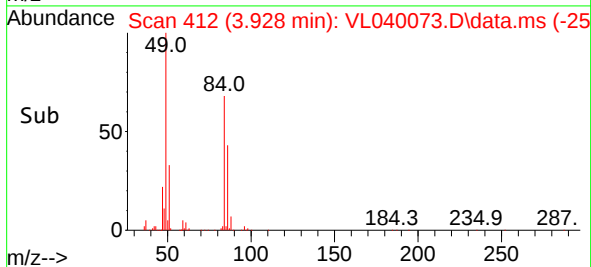
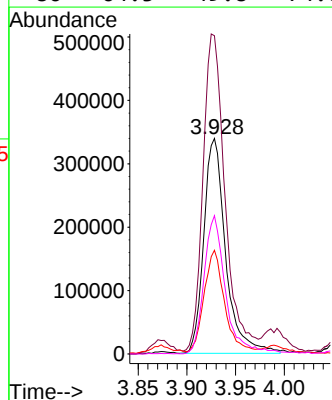
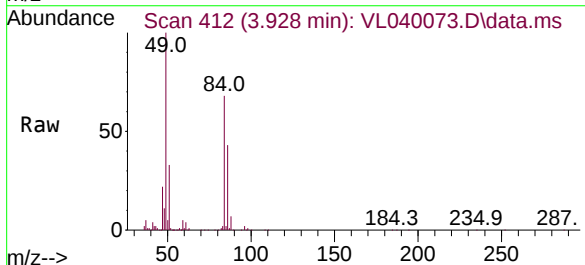
Ion Ratio Lower Upper

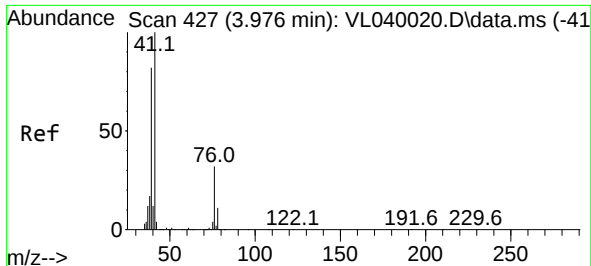
84 100

49 146.4 120.5 180.7

51 46.4 35.2 52.8

86 64.3 49.8 74.6





#21

Allyl Chloride

Concen: 8.814 ppbv

RT: 3.989 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

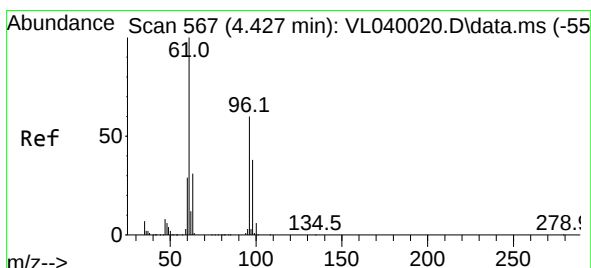
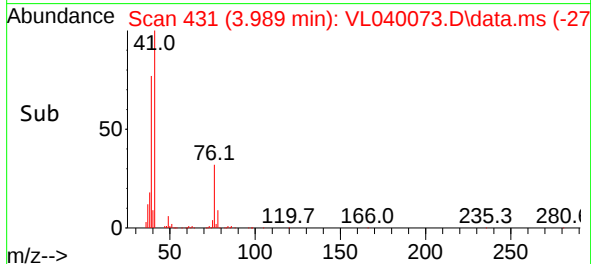
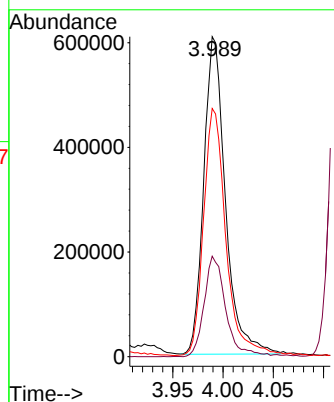
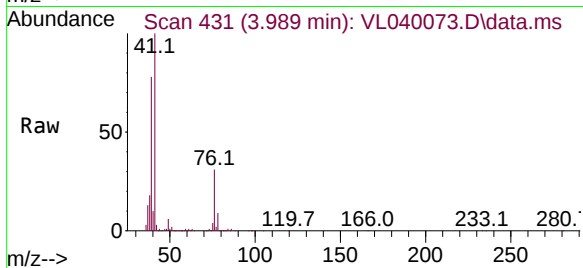
Tgt Ion: 41 Resp: 912496

Ion Ratio Lower Upper

41 100

76 31.9 25.9 38.9

39 80.7 66.0 99.0



#22

trans-1,2-Dichloroethene

Concen: 8.446 ppbv

RT: 4.443 min Scan# 572

Delta R.T. 0.016 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

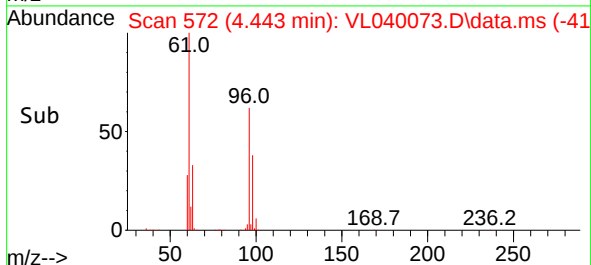
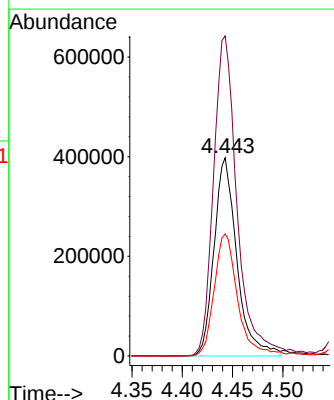
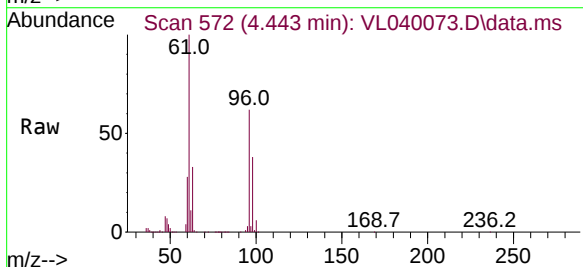
Tgt Ion: 96 Resp: 628622

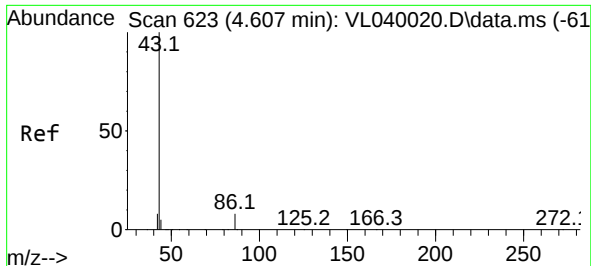
Ion Ratio Lower Upper

96 100

61 161.4 133.6 200.4

98 61.6 51.4 77.0

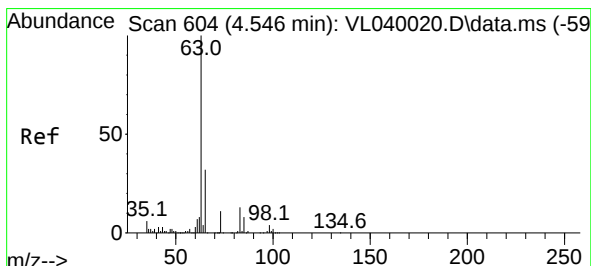
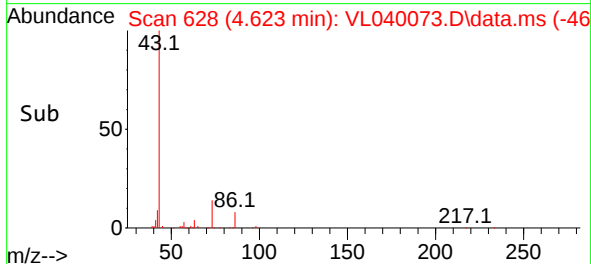
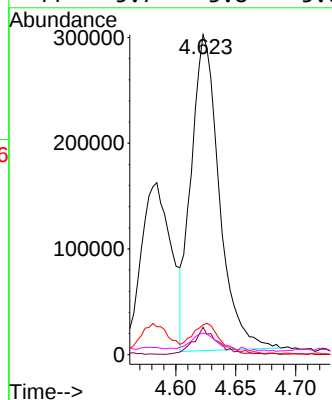
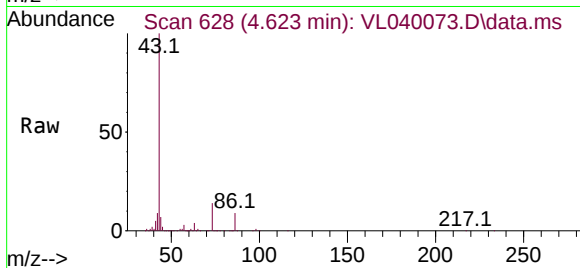




#23  
 Vinyl Acetate  
 Concen: 8.884 ppbv  
 RT: 4.623 min Scan# 61  
 Delta R.T. 0.016 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

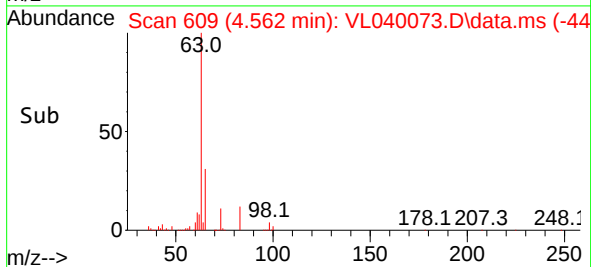
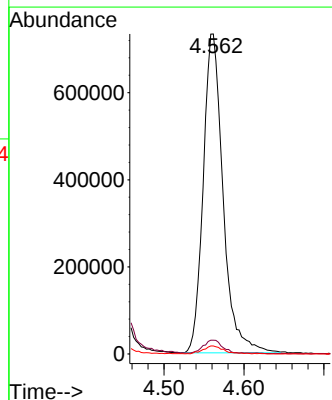
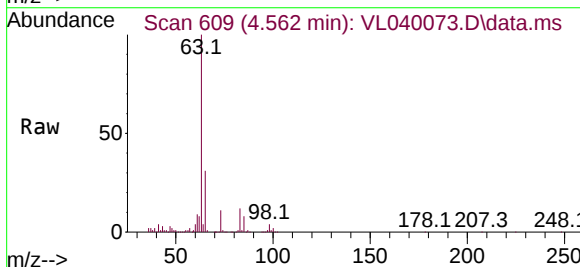
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0109ABS01

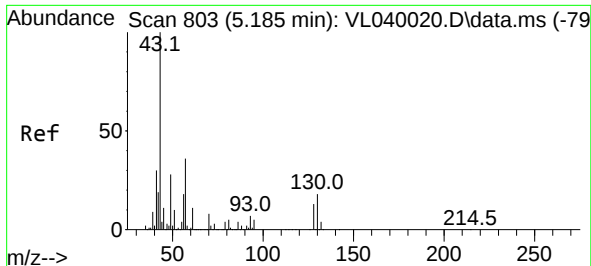
Tgt Ion: 43 Resp: 485257  
 Ion Ratio Lower Upper  
 43 100  
 86 8.6 5.3 7.9#  
 42 9.2 7.4 11.0  
 44 5.7 3.8 5.6#



#24  
 1,1-Dichloroethane  
 Concen: 7.911 ppbv  
 RT: 4.562 min Scan# 609  
 Delta R.T. 0.016 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion: 63 Resp: 1268913  
 Ion Ratio Lower Upper  
 63 100  
 98 4.1 2.1 6.2  
 100 2.5 1.1 3.3



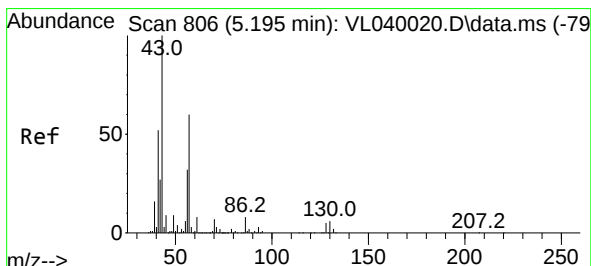
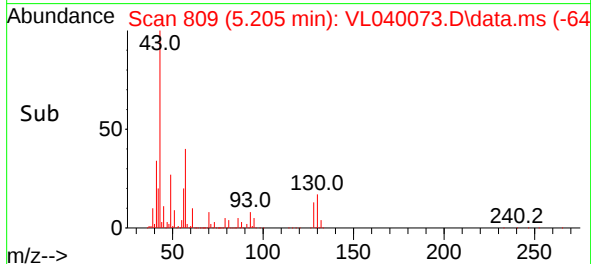
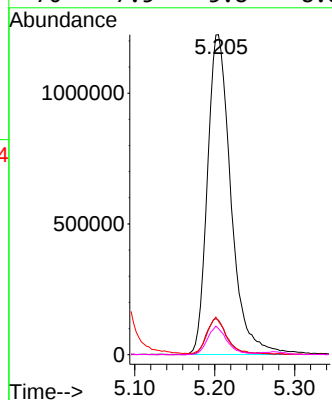
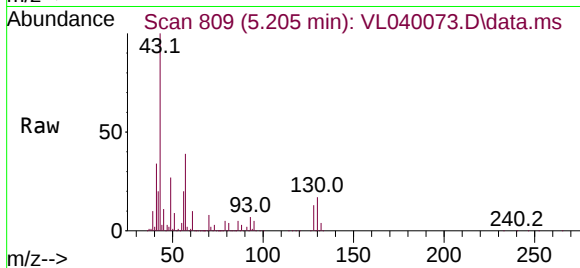


#25  
Ethyl Acetate  
Concen: 8.337 ppbv  
RT: 5.205 min Scan# 80  
Delta R.T. 0.019 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0109ABS01

Tgt Ion: 43 Resp: 2487687

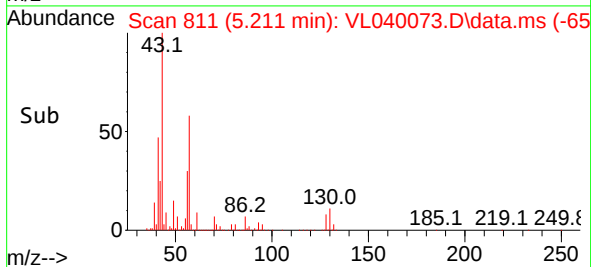
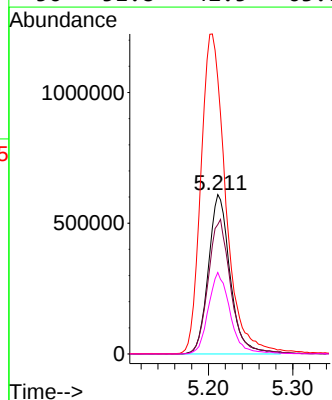
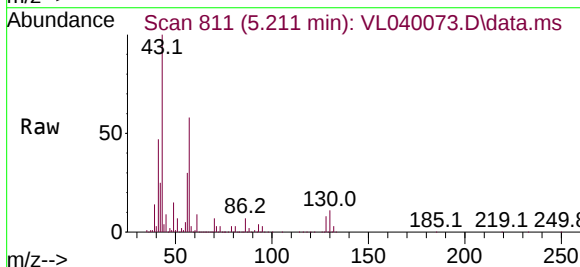
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.3  | 8.6   | 12.8  |
| 61  | 10.4  | 8.5   | 12.7  |
| 70  | 7.5   | 5.8   | 8.8   |

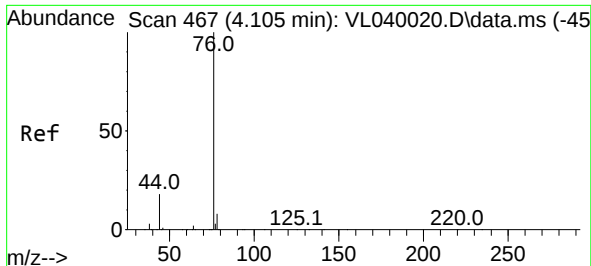


#26  
Hexane  
Concen: 8.692 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.016 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 57 Resp: 1090033

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 89.1  | 72.1  | 108.1 |
| 43  | 231.0 | 192.1 | 288.1 |
| 56  | 51.8  | 42.5  | 63.7  |



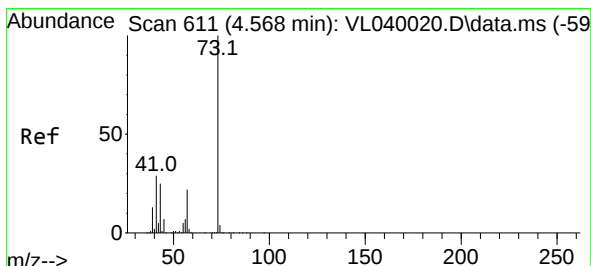
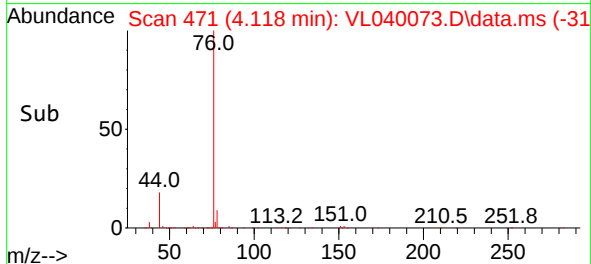
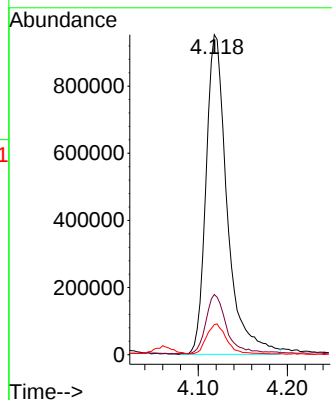
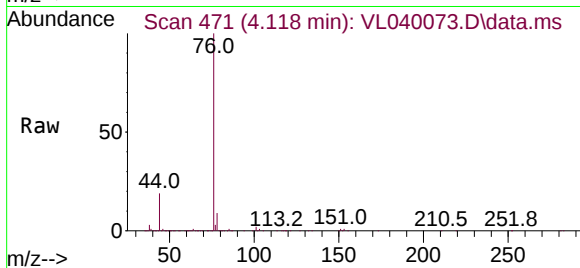


#27  
Carbon Disulfide  
Concen: 9.936 ppbv  
RT: 4.118 min Scan# 41  
Delta R.T. 0.013 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

Tgt Ion: 76 Resp: 1571602

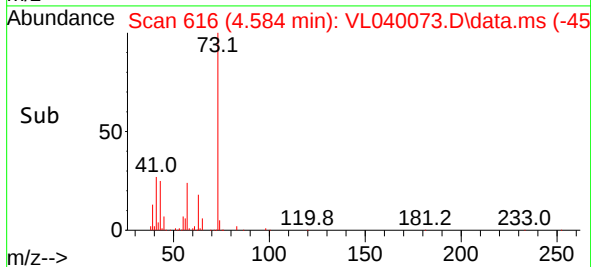
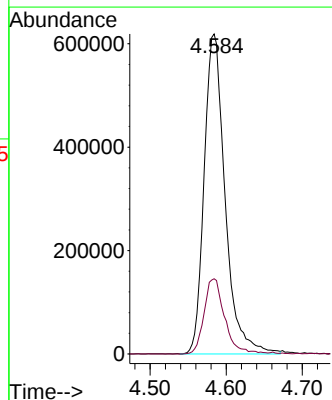
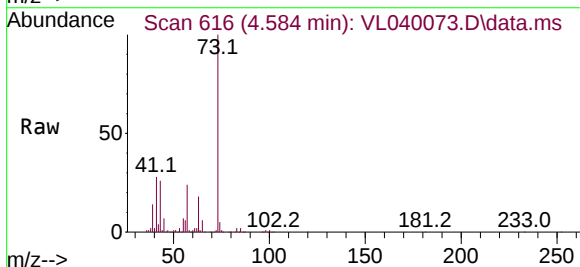
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 18.3  | 15.3  | 22.9  |
| 78  | 9.2   | 7.8   | 11.6  |

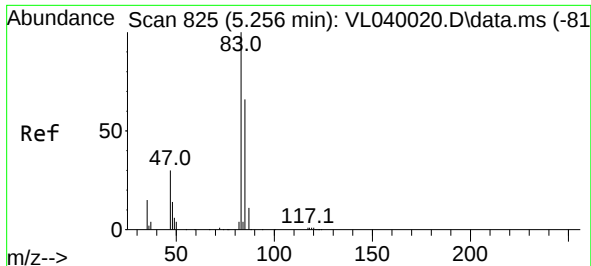


#28  
Methyl tert-Butyl Ether  
Concen: 8.028 ppbv  
RT: 4.584 min Scan# 616  
Delta R.T. 0.016 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 73 Resp: 1186512

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 23.3  | 18.6  | 28.0  |





#29

Chloroform

Concen: 9.119 ppbv

RT: 5.275 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

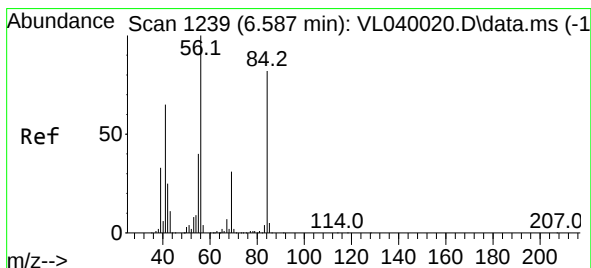
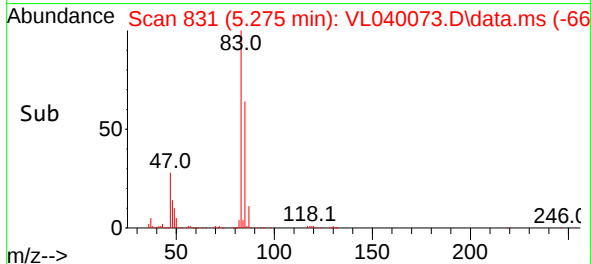
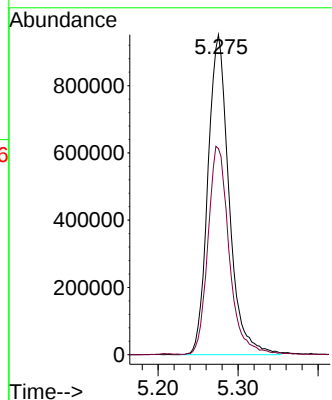
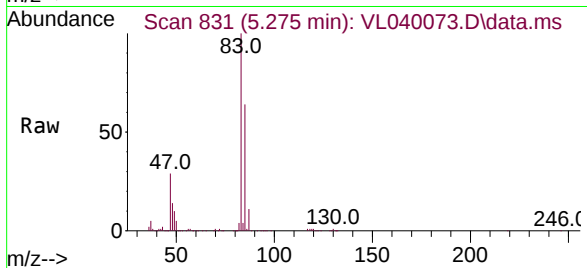
VL0109ABS01

Tgt Ion: 83 Resp: 1745173

Ion Ratio Lower Upper

83 100

85 64.3 52.4 78.6



#30

Cyclohexane

Concen: 8.569 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. 0.016 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

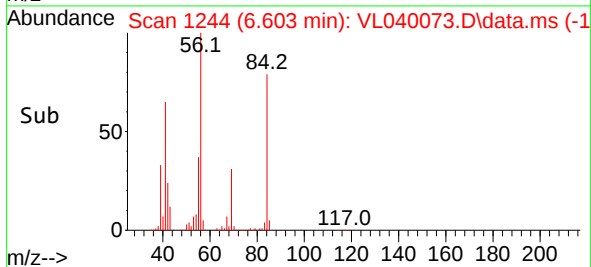
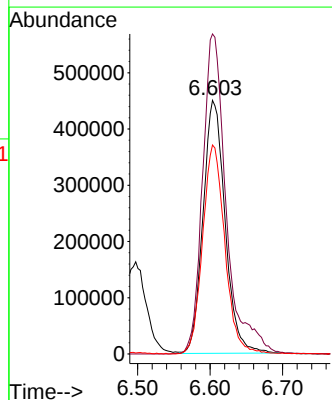
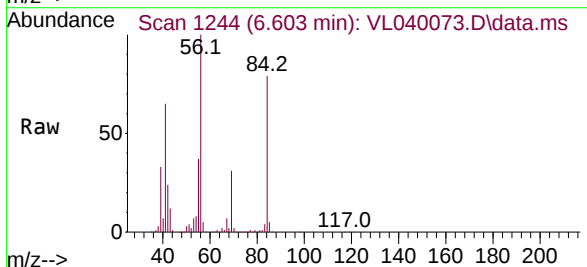
Tgt Ion: 84 Resp: 951652

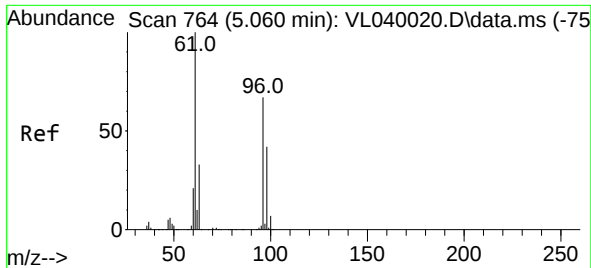
Ion Ratio Lower Upper

84 100

56 136.1 110.2 165.4

41 83.6 67.8 101.8

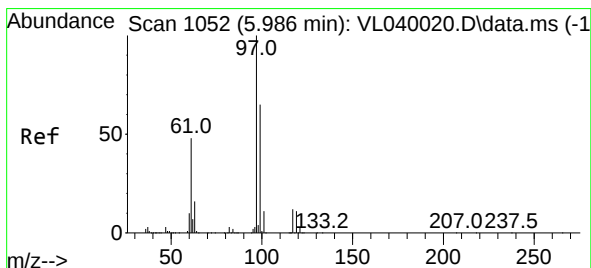
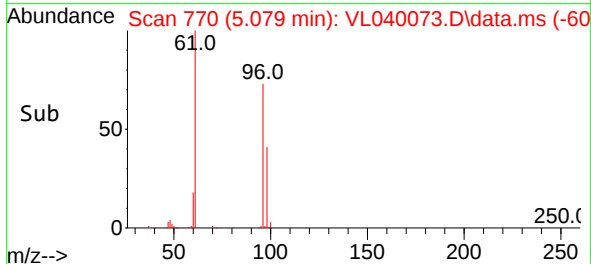
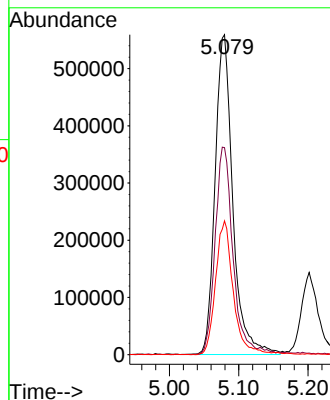
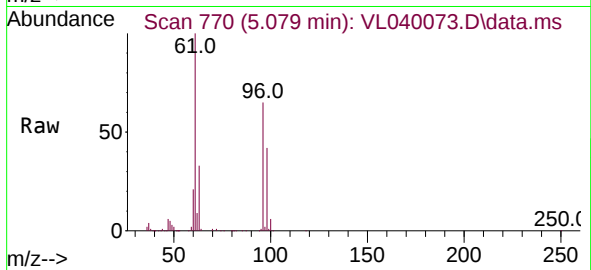




#31  
 cis-1,2-Dichloroethene  
 Concen: 8.309 ppbv  
 RT: 5.079 min Scan# 71  
 Delta R.T. 0.019 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

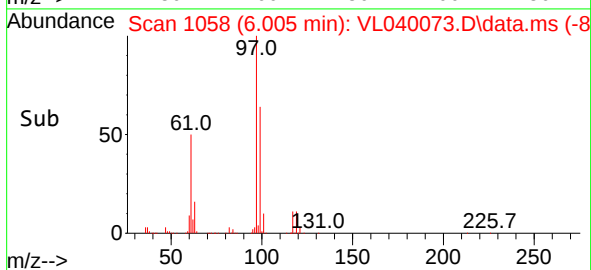
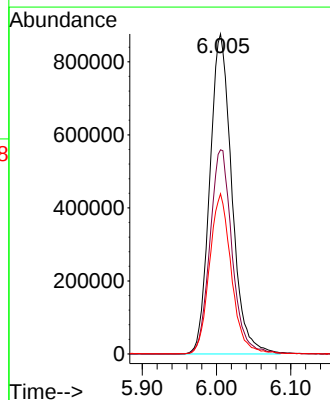
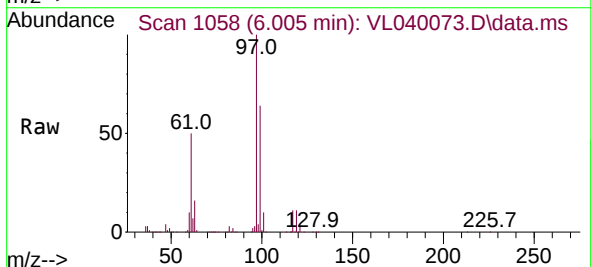
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

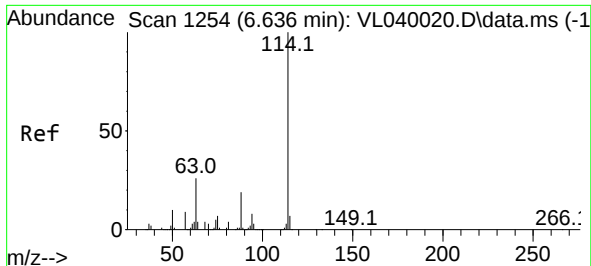
Tgt Ion: 61 Resp: 992385  
 Ion Ratio Lower Upper  
 61 100  
 96 64.7 53.4 80.2  
 98 41.8 33.4 50.0



#32  
 1,1,1-Trichloroethane  
 Concen: 8.804 ppbv  
 RT: 6.005 min Scan# 1058  
 Delta R.T. 0.019 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion: 97 Resp: 1803793  
 Ion Ratio Lower Upper  
 97 100  
 99 64.5 51.8 77.6  
 61 50.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

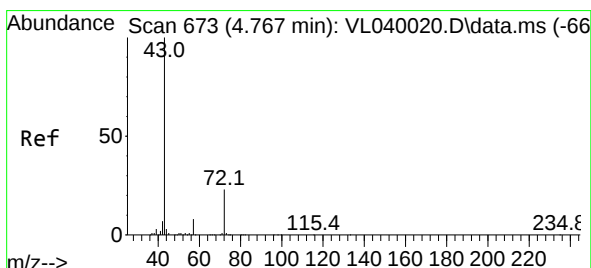
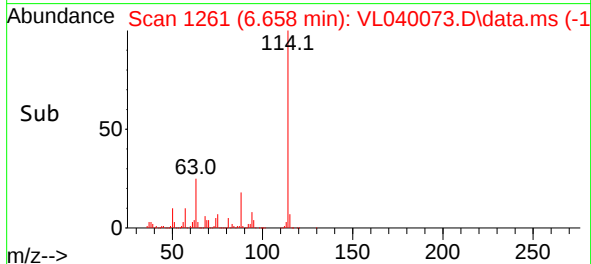
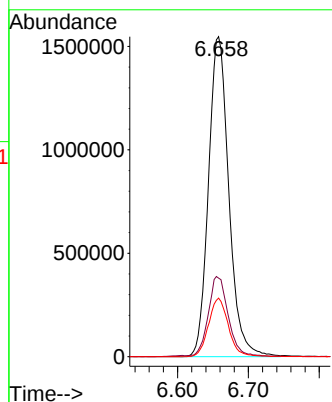
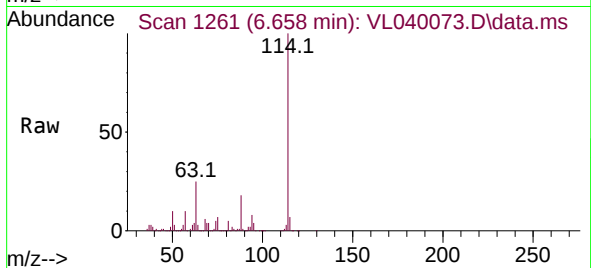
Tgt Ion:114 Resp: 3085206

Ion Ratio Lower Upper

114 100

63 25.0 20.2 30.2

88 18.0 14.6 21.8



#34

2-Butanone

Concen: 8.553 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.016 min

Lab File: VL040073.D

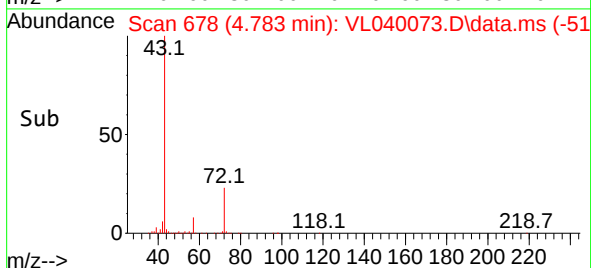
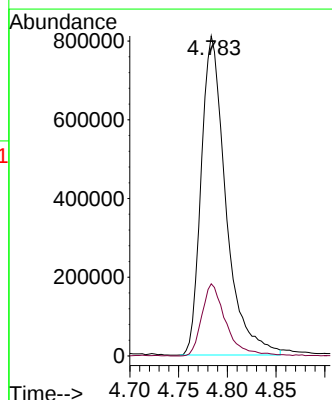
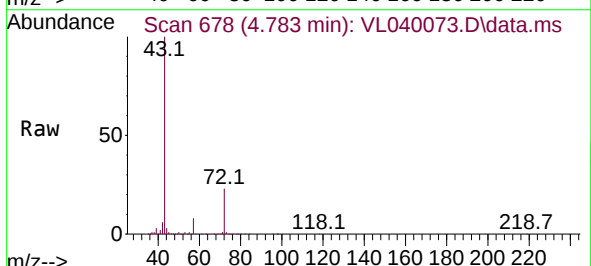
Acq: 9 Jan 2023 13:16

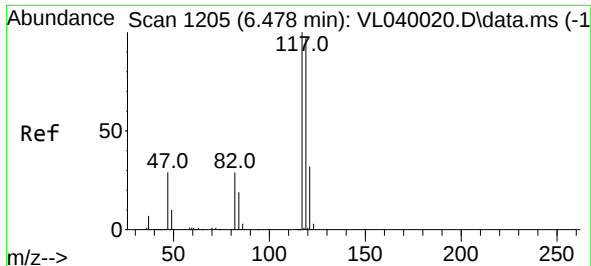
Tgt Ion: 43 Resp: 1431566

Ion Ratio Lower Upper

43 100

72 22.4 18.0 27.0

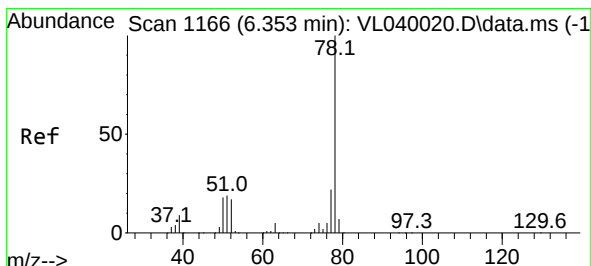
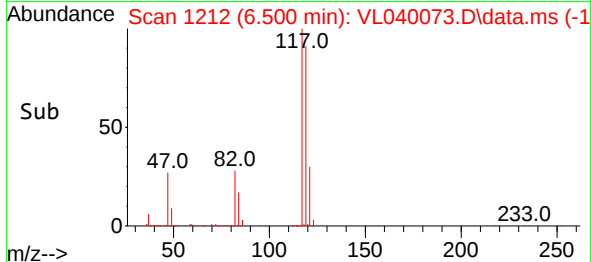
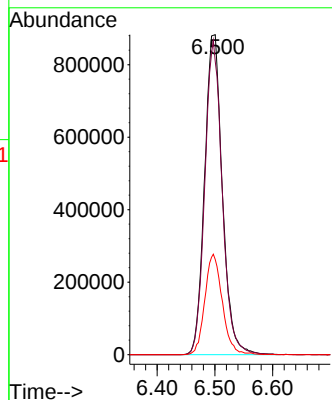
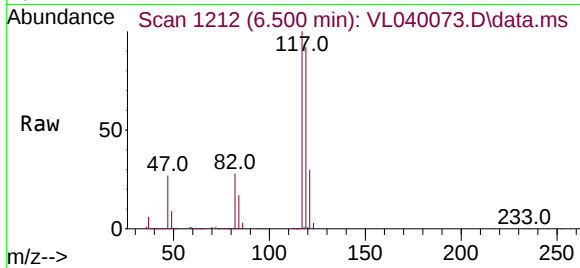




#35  
Carbon Tetrachloride  
Concen: 9.886 ppbv  
RT: 6.500 min Scan# 1173  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

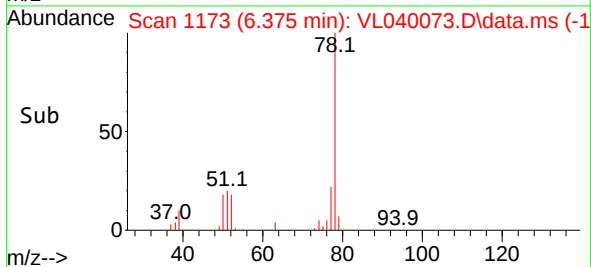
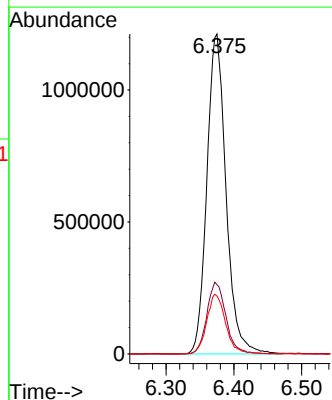
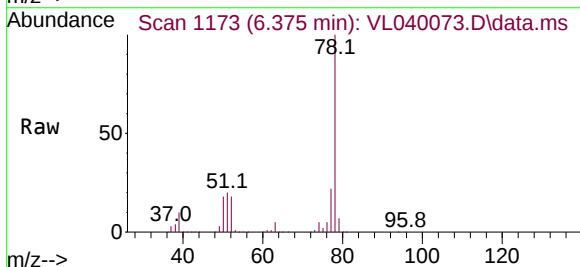
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

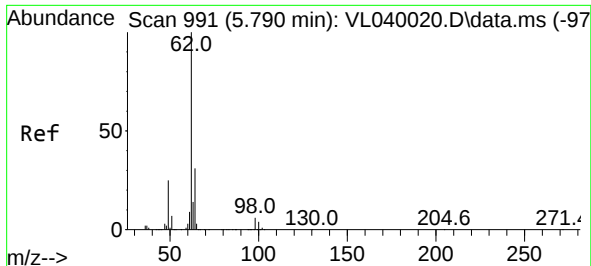
Tgt Ion:117 Resp: 1894487  
Ion Ratio Lower Upper  
117 100  
119 91.6 77.3 115.9  
121 29.8 25.4 38.0



#36  
Benzene  
Concen: 8.641 ppbv  
RT: 6.375 min Scan# 1173  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 78 Resp: 2380862  
Ion Ratio Lower Upper  
78 100  
77 21.6 17.5 26.3  
50 18.1 14.2 21.2





#37

1,2-Dichloroethane

Concen: 8.472 ppbv

RT: 5.809 min Scan# 991

Delta R.T. 0.019 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

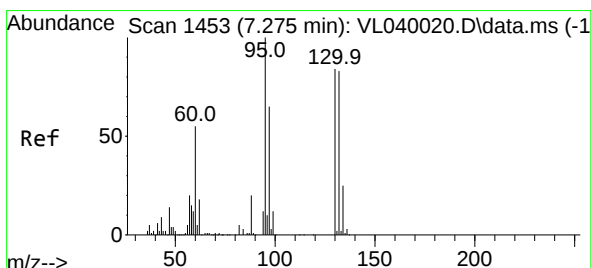
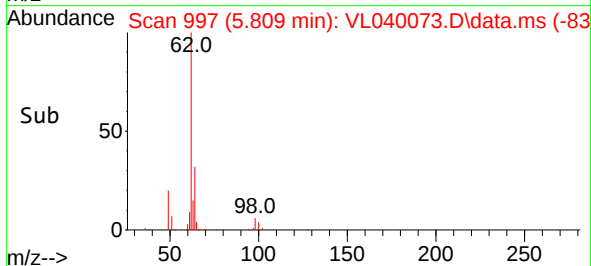
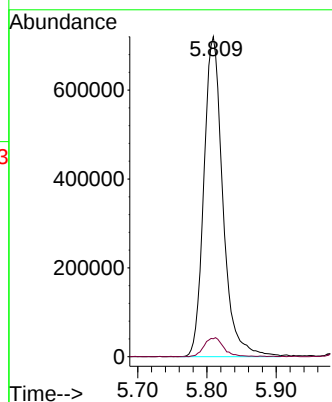
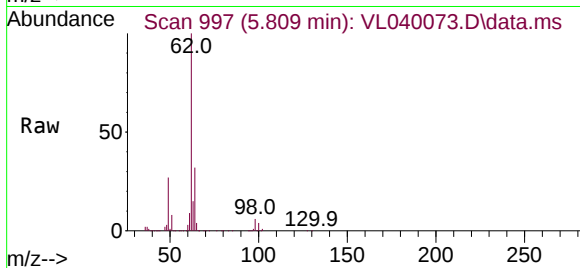
VL0109ABS01

Tgt Ion: 62 Resp: 1369423

Ion Ratio Lower Upper

62 100

98 6.3 5.1 7.7



#38

Trichloroethene

Concen: 9.575 ppbv

RT: 7.298 min Scan# 1460

Delta R.T. 0.022 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Tgt Ion:130 Resp: 1355759

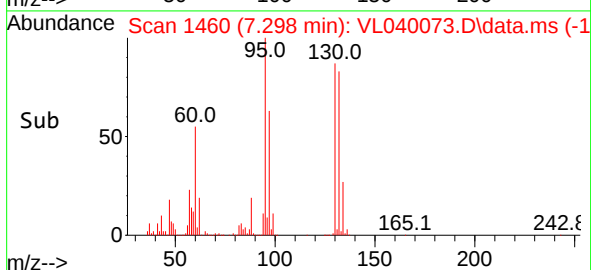
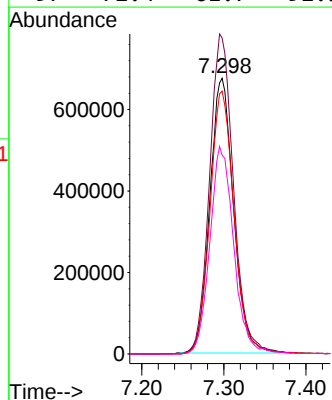
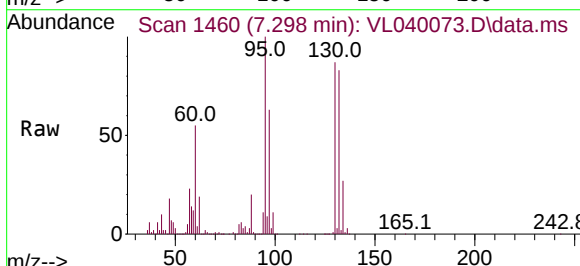
Ion Ratio Lower Upper

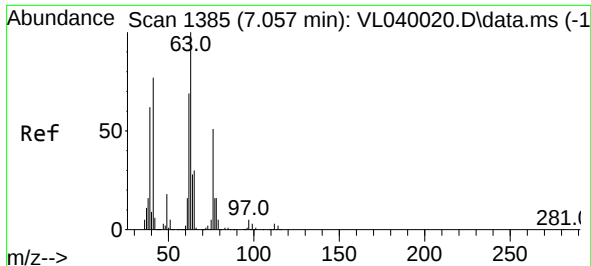
130 100

95 115.0 94.8 142.2

132 95.6 78.2 117.4

97 72.4 61.7 92.5





#39

1,2-Dichloropropane

Concen: 8.708 ppbv

RT: 7.079 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

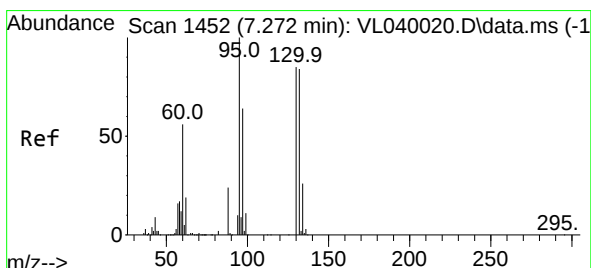
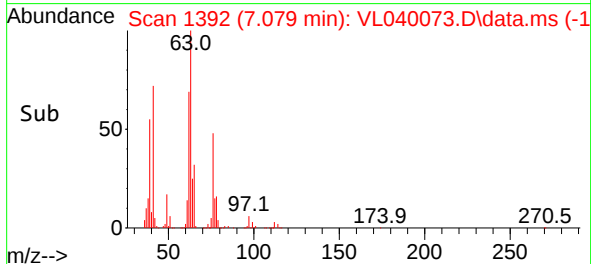
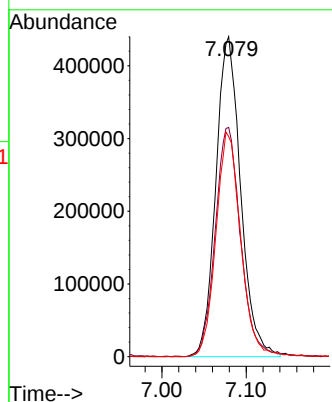
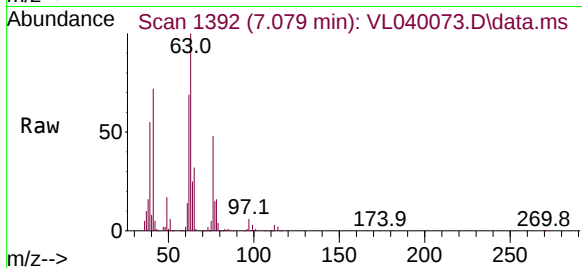
Tgt Ion: 63 Resp: 899356

Ion Ratio Lower Upper

63 100

41 71.5 61.4 92.0

62 68.8 55.4 83.2



#40

1,4-Dioxane

Concen: 7.853 ppbv

RT: 7.291 min Scan# 1458

Delta R.T. 0.019 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Tgt Ion: 88 Resp: 365541

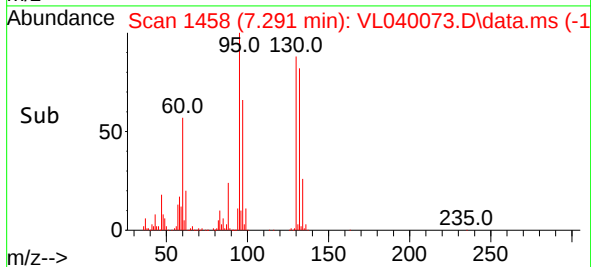
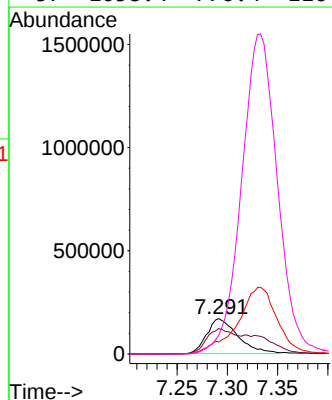
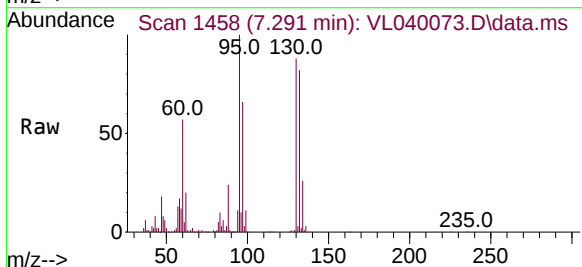
Ion Ratio Lower Upper

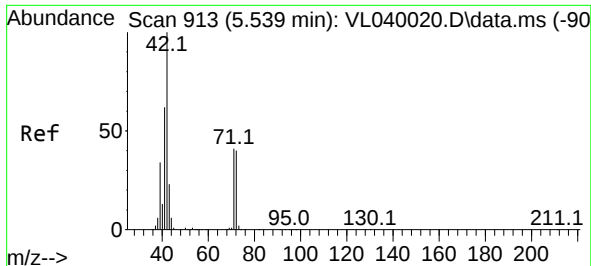
88 100

58 121.7 92.7 139.1

43 241.9 174.6 261.8

57 1058.4 776.4 1164.6

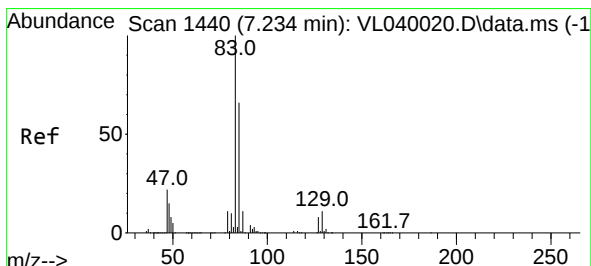
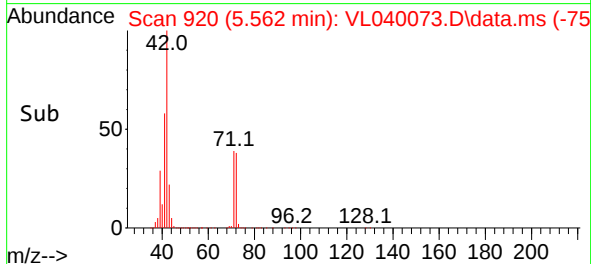
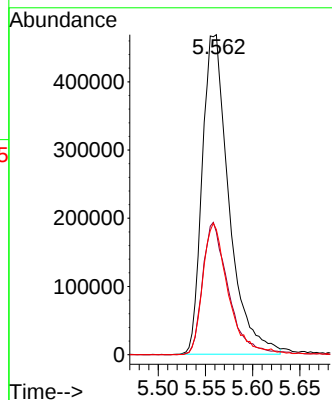
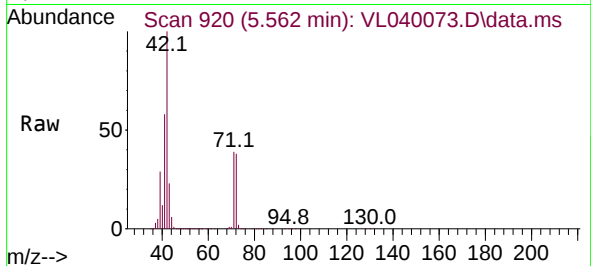




#41  
Tetrahydrofuran  
Concen: 8.814 ppbv  
RT: 5.562 min Scan# 913  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

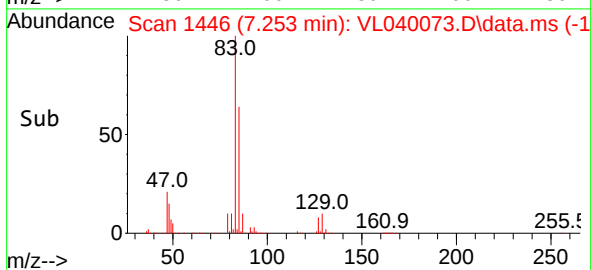
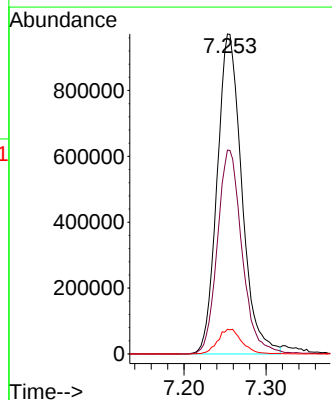
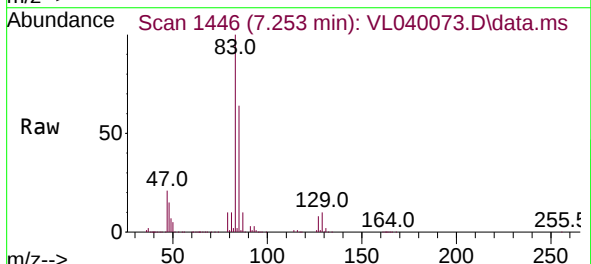
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

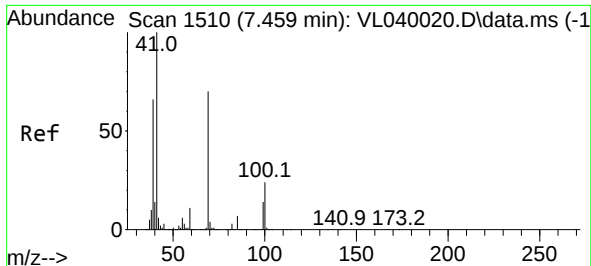
Tgt Ion: 42 Resp: 920765  
Ion Ratio Lower Upper  
42 100  
72 40.7 32.9 49.3  
71 40.0 32.2 48.2



#42  
Bromodichloromethane  
Concen: 9.189 ppbv  
RT: 7.253 min Scan# 1446  
Delta R.T. 0.019 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 83 Resp: 2034790  
Ion Ratio Lower Upper  
83 100  
85 63.7 53.0 79.6  
127 7.7 6.2 9.2

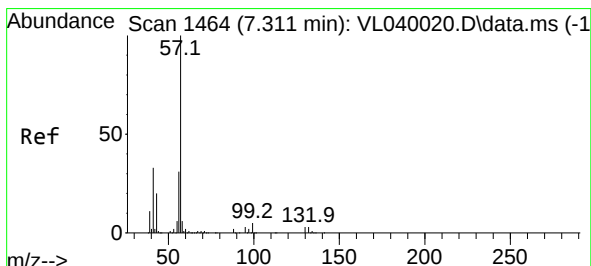
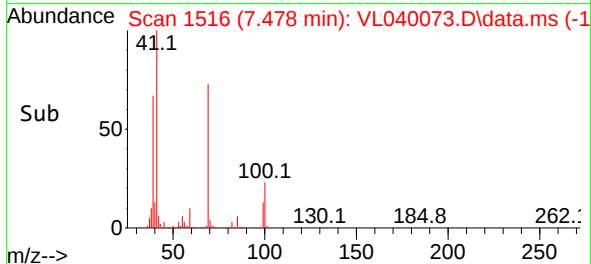
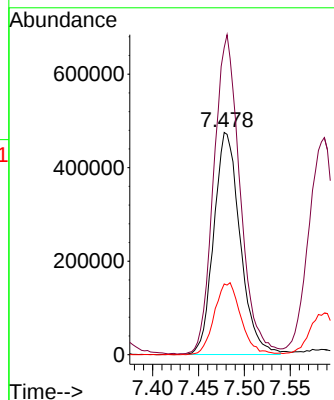
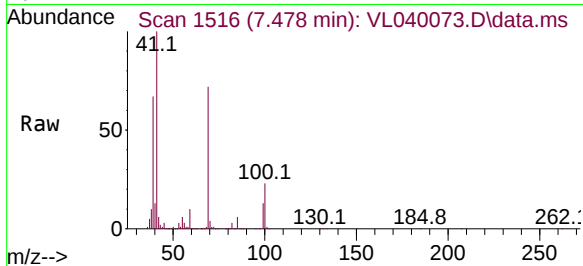




#43  
Methyl Methacrylate  
Concen: 9.175 ppbv  
RT: 7.478 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

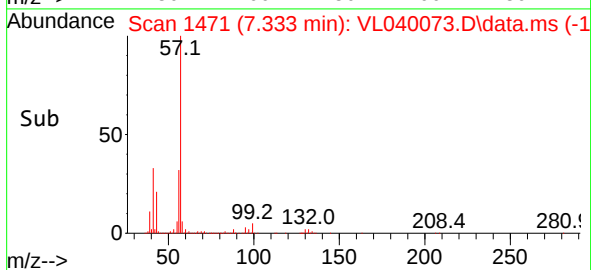
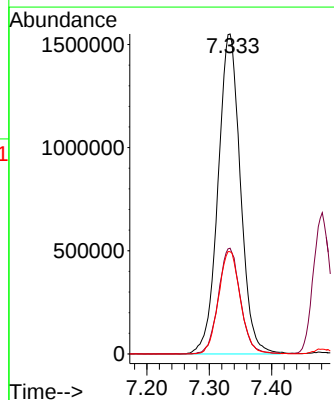
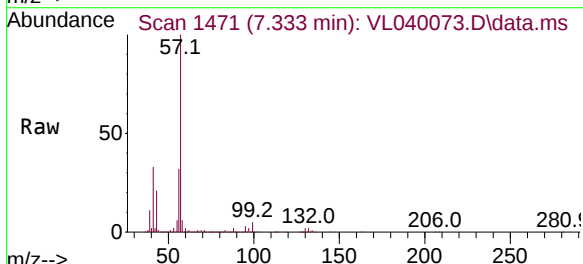
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0109ABS01

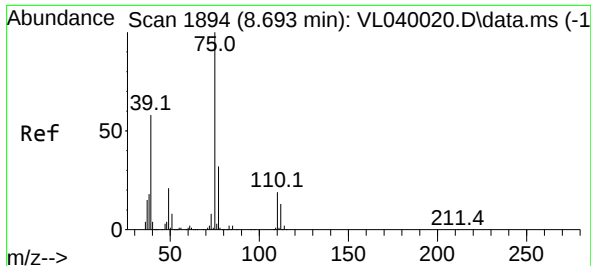
Tgt Ion: 69 Resp: 948774  
Ion Ratio Lower Upper  
69 100  
41 144.0 115.7 173.5  
100 32.8 26.0 39.0



#44  
2,2,4-Trimethylpentane  
Concen: 8.514 ppbv  
RT: 7.333 min Scan# 1471  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 57 Resp: 3862141  
Ion Ratio Lower Upper  
57 100  
41 32.4 26.2 39.4  
56 31.6 25.1 37.7

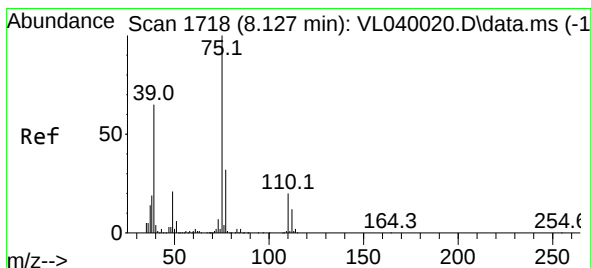
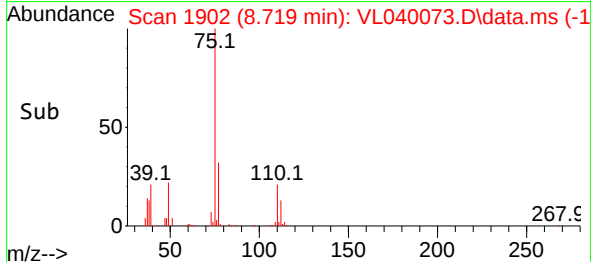
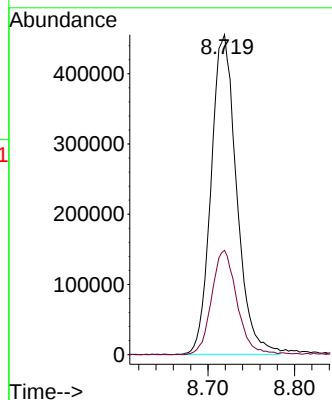
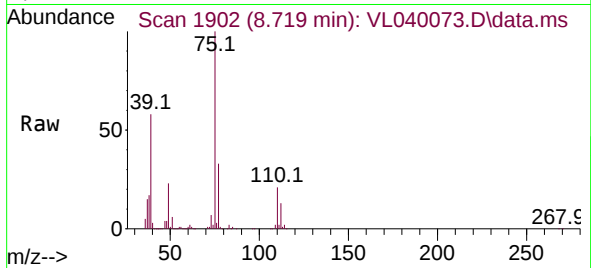




#45  
 t-1,3-Dichloropropene  
 Concen: 10.671 ppbv  
 RT: 8.719 min Scan# 1902  
 Delta R.T. 0.026 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

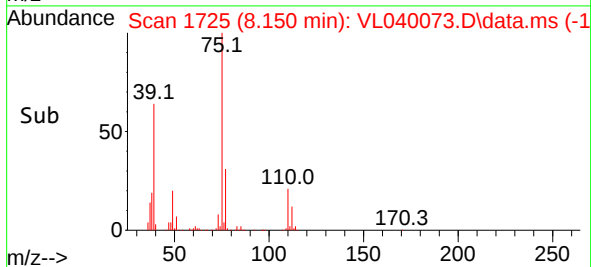
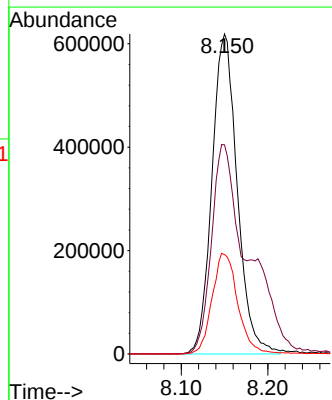
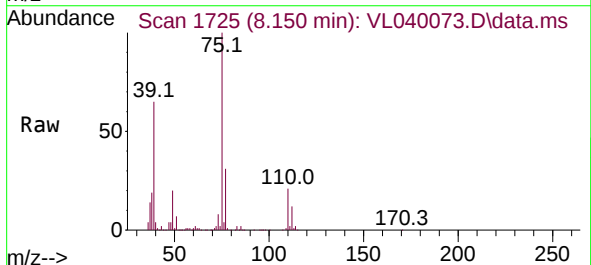
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0109ABS01

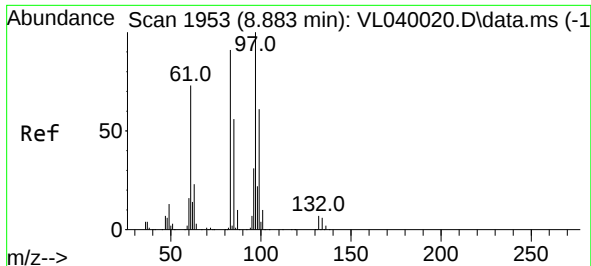
Tgt Ion: 75 Resp: 932618  
 Ion Ratio Lower Upper  
 75 100  
 77 32.6 25.4 38.2



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.183 ppbv  
 RT: 8.150 min Scan# 1725  
 Delta R.T. 0.023 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion: 75 Resp: 1255223  
 Ion Ratio Lower Upper  
 75 100  
 39 65.2 51.7 77.5  
 77 31.0 25.2 37.8





#47

1,1,2-Trichloroethane

Concen: 8.508 ppbv

RT: 8.905 min Scan# 1953

Delta R.T. 0.022 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

Tgt Ion: 97 Resp: 962300

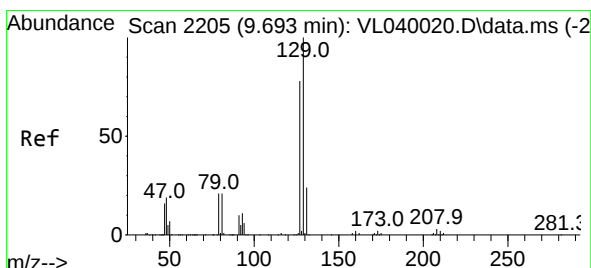
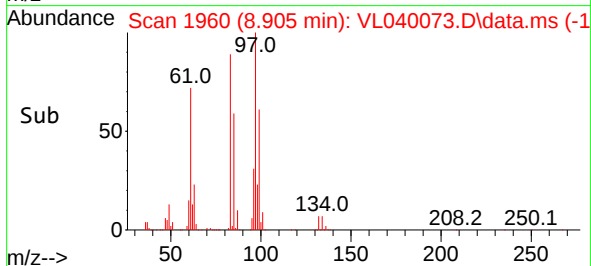
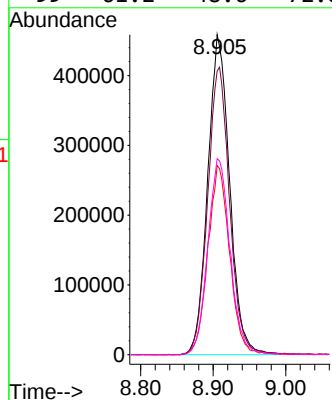
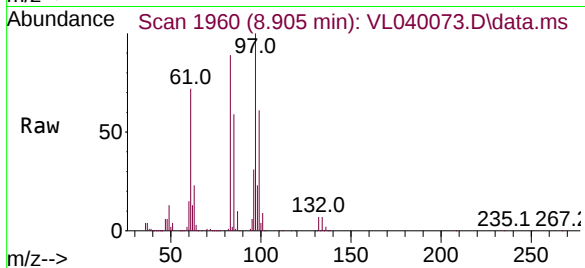
Ion Ratio Lower Upper

97 100

83 88.7 72.5 108.7

85 59.1 45.0 67.6

99 61.2 48.6 72.8



#48

Dibromochloromethane

Concen: 9.573 ppbv

RT: 9.719 min Scan# 2213

Delta R.T. 0.026 min

Lab File: VL040073.D

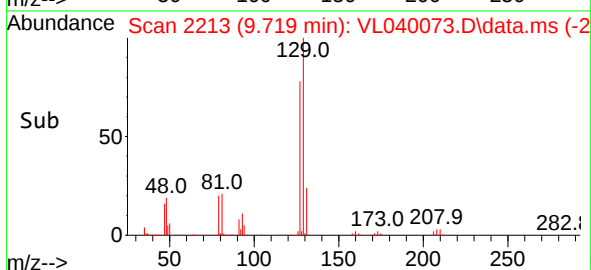
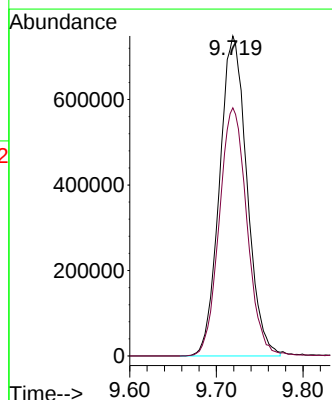
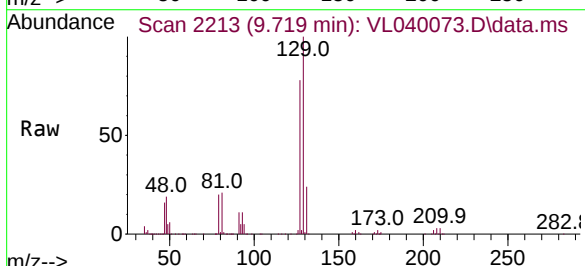
Acq: 9 Jan 2023 13:16

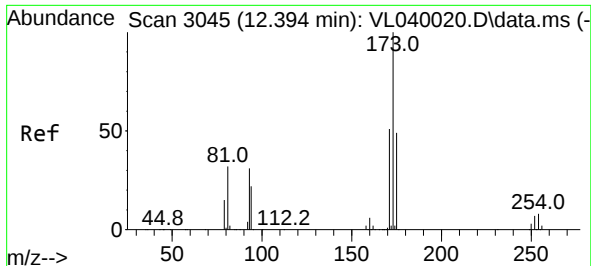
Tgt Ion: 129 Resp: 1646639

Ion Ratio Lower Upper

129 100

127 78.6 39.4 118.1

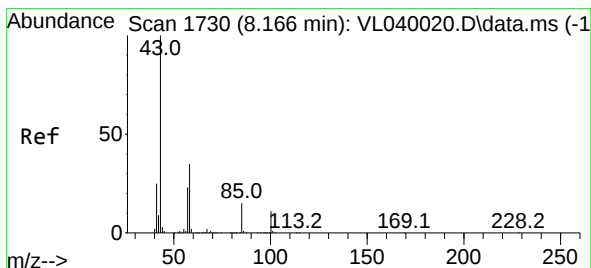
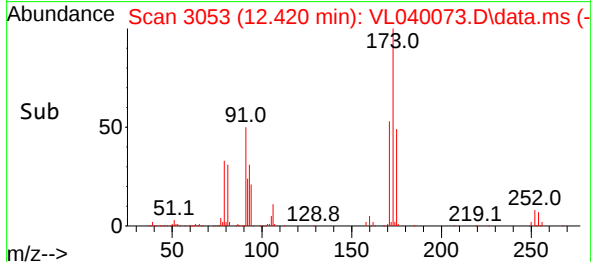
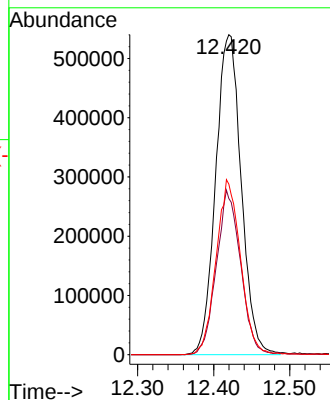
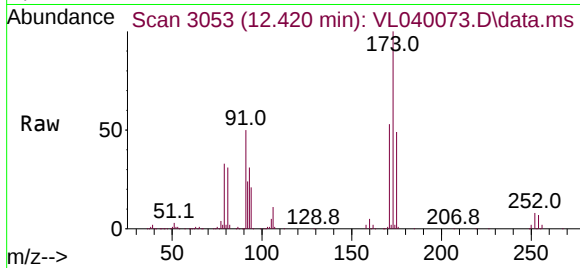




#49  
Bromoform  
Concen: 9.614 ppbv  
RT: 12.420 min Scan# 3045  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

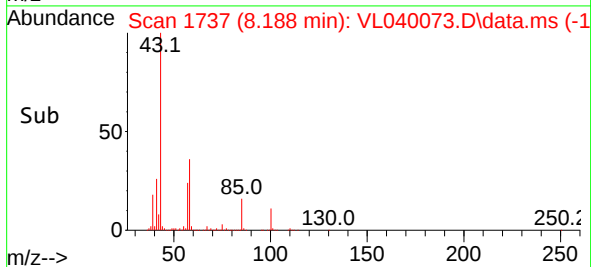
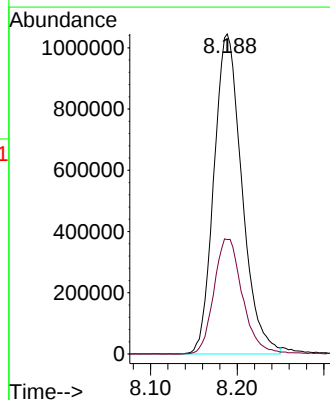
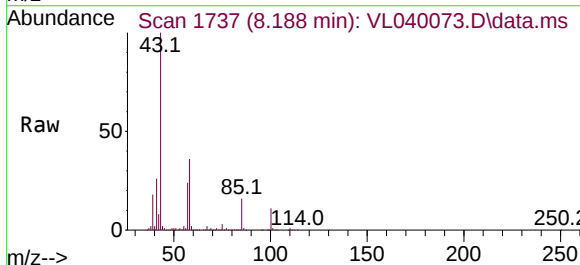
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

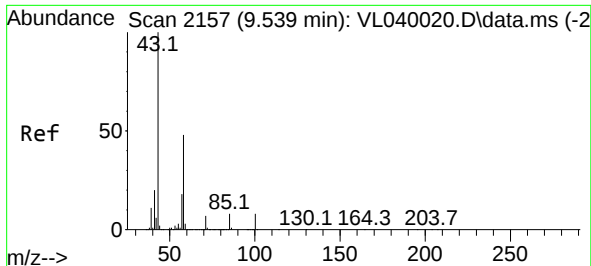
Tgt Ion:173 Resp: 1261505  
Ion Ratio Lower Upper  
173 100  
175 48.8 39.0 58.4  
171 52.5 42.0 63.0



#50  
4-Methyl-2-Pentanone  
Concen: 8.596 ppbv  
RT: 8.188 min Scan# 1737  
Delta R.T. 0.023 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 43 Resp: 2350297  
Ion Ratio Lower Upper  
43 100  
58 36.8 29.0 43.4

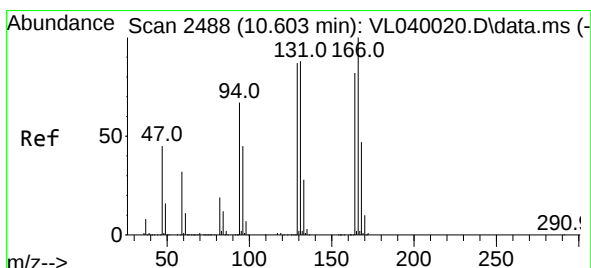
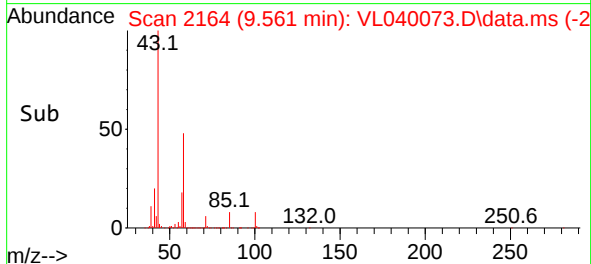
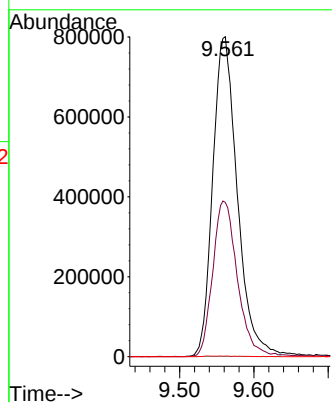
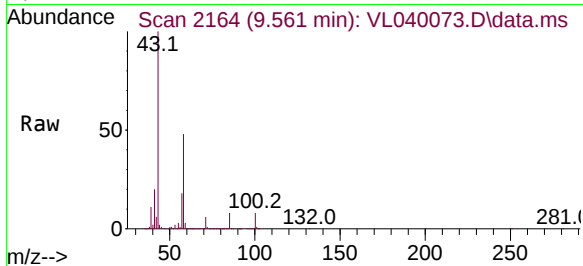




#51  
2-Hexanone  
Concen: 8.631 ppbv  
RT: 9.561 min Scan# 2157  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

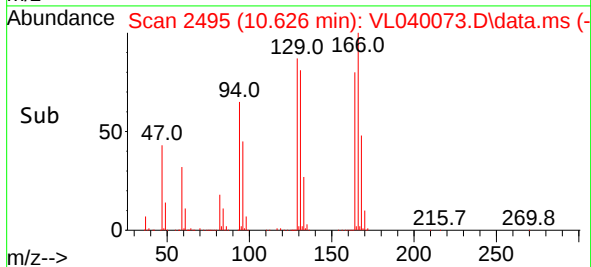
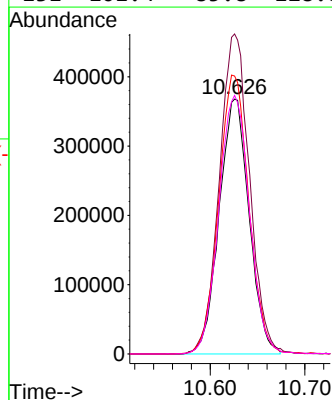
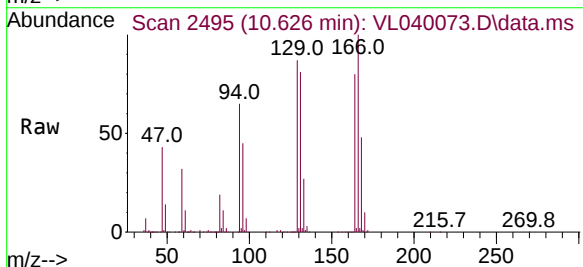
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

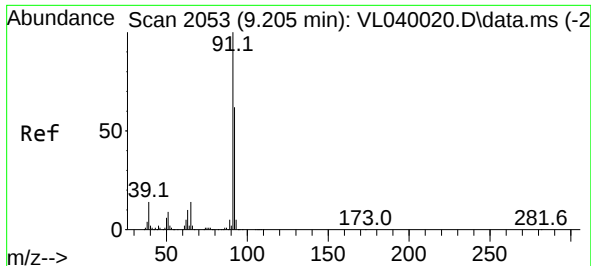
Tgt Ion: 43 Resp: 1835751  
Ion Ratio Lower Upper  
43 100  
58 49.5 39.4 59.2  
98 0.2 0.2 0.4#



#52  
Tetrachloroethene  
Concen: 8.618 ppbv  
RT: 10.626 min Scan# 2495  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 164 Resp: 807337  
Ion Ratio Lower Upper  
164 100  
166 125.6 97.4 146.0  
129 109.0 84.3 126.5  
131 101.4 85.8 128.8

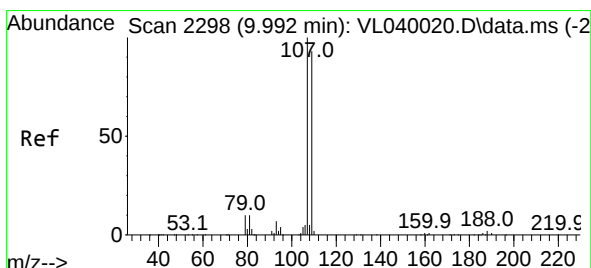
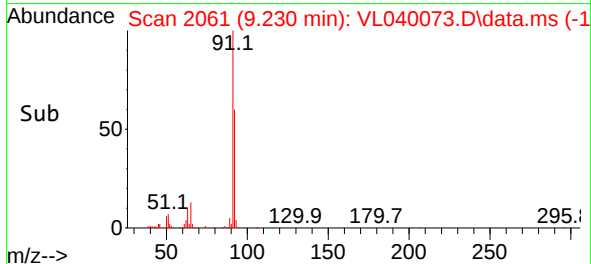
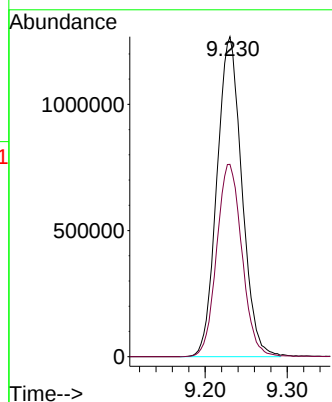
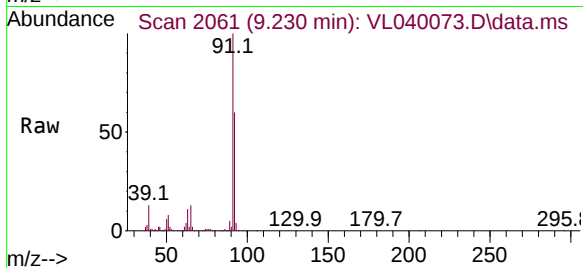




#53  
Toluene  
Concen: 8.779 ppbv  
RT: 9.230 min Scan# 2053  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

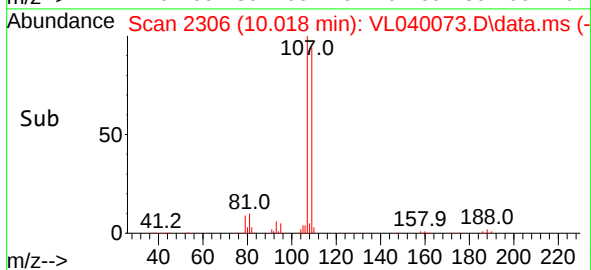
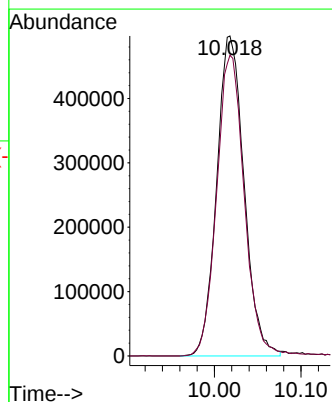
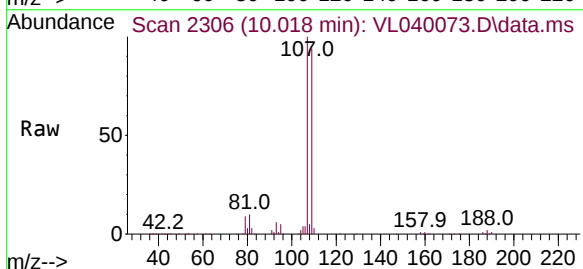
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

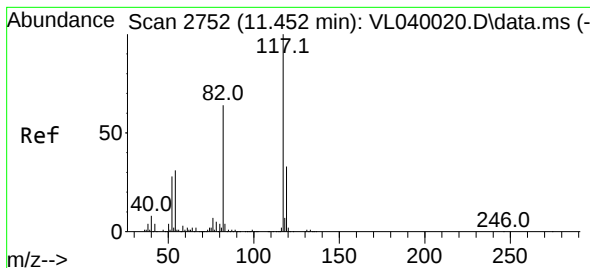
Tgt Ion: 91 Resp: 2678339  
Ion Ratio Lower Upper  
91 100  
92 61.1 48.7 73.1



#54  
1,2-Dibromoethane  
Concen: 8.958 ppbv  
RT: 10.018 min Scan# 2306  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 107 Resp: 1091103  
Ion Ratio Lower Upper  
107 100  
109 94.0 74.1 111.1

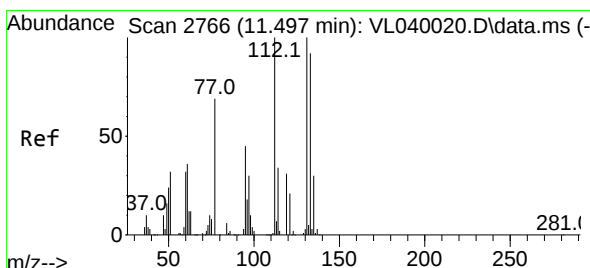
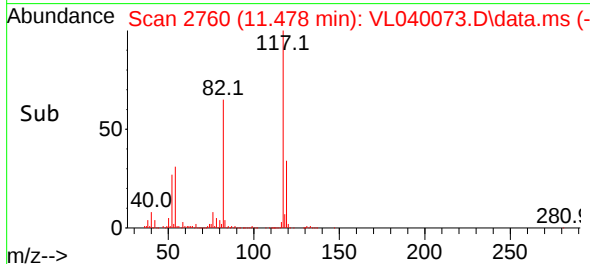
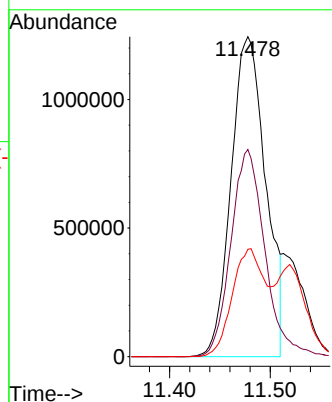
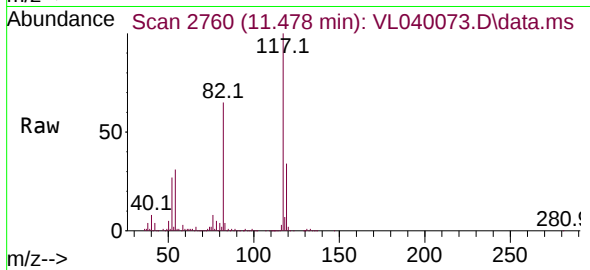




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.478 min Scan# 2752  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

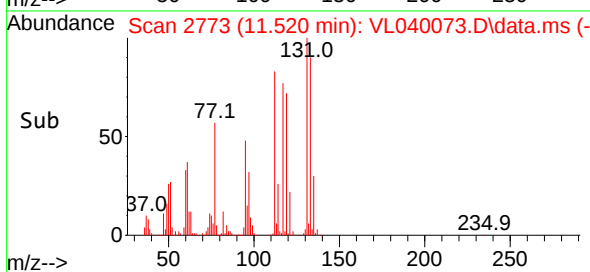
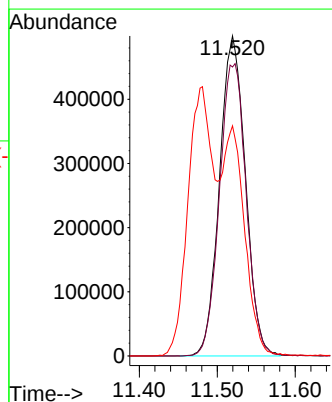
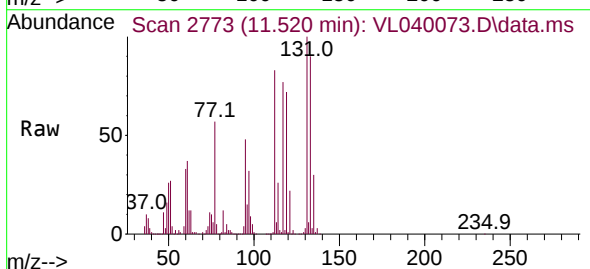
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

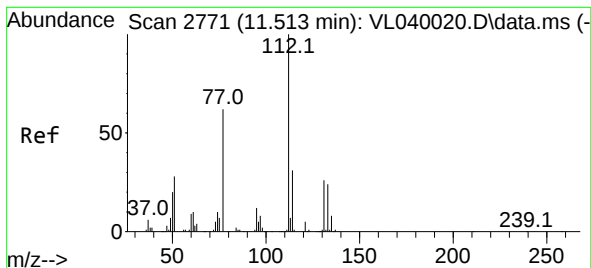
Tgt Ion:117 Resp: 2979040  
Ion Ratio Lower Upper  
117 100  
82 63.8 51.2 76.8  
119 31.8 23.2 34.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.360 ppbv  
RT: 11.520 min Scan# 2773  
Delta R.T. 0.023 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion:131 Resp: 1148831  
Ion Ratio Lower Upper  
131 100  
133 94.9 75.8 113.8  
119 59.4 52.3 78.5

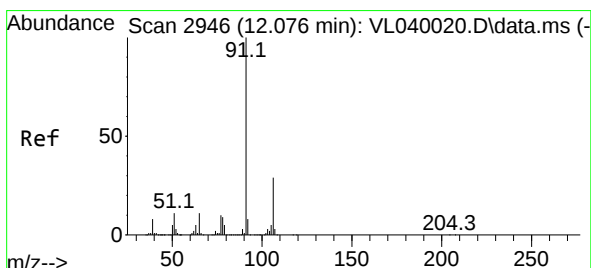
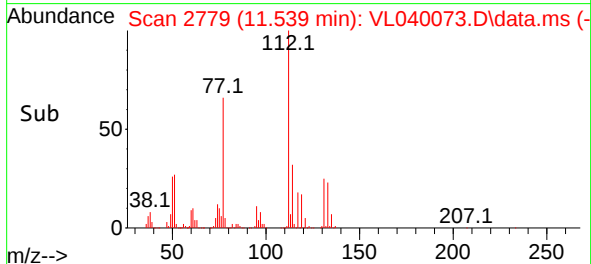
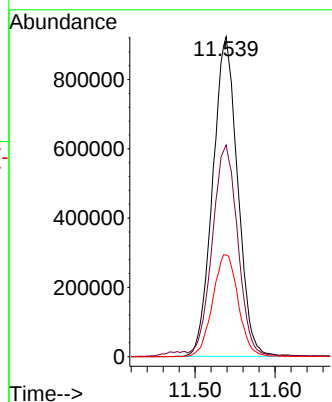
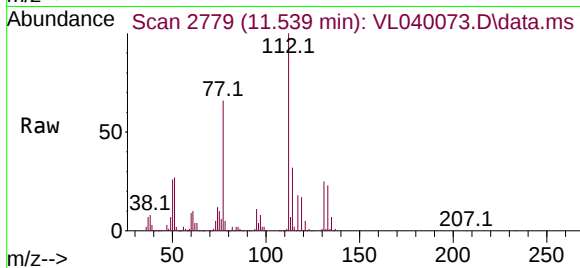




#57  
Chlorobenzene  
Concen: 7.891 ppbv  
RT: 11.539 min Scan# 21  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

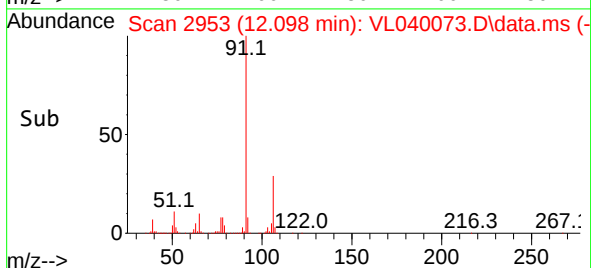
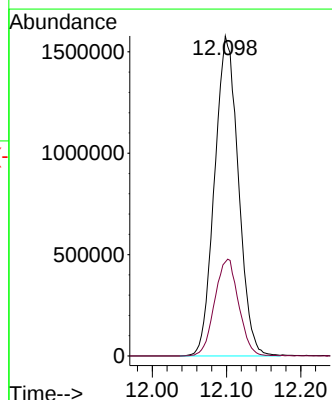
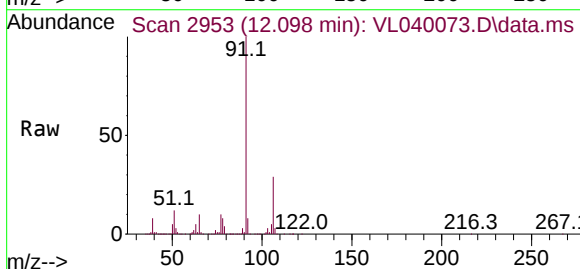
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

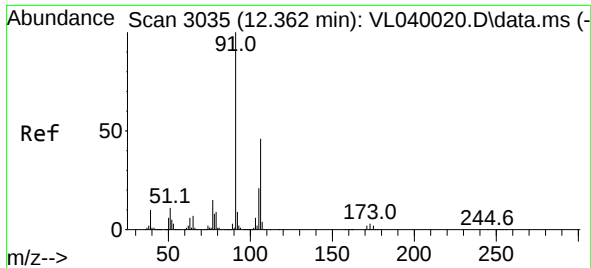
Tgt Ion:112 Resp: 1995533  
Ion Ratio Lower Upper  
112 100  
77 65.8 50.6 75.8  
114 31.7 27.8 34.0



#58  
Ethyl Benzene  
Concen: 8.306 ppbv  
RT: 12.098 min Scan# 2953  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 91 Resp: 3515836  
Ion Ratio Lower Upper  
91 100  
106 29.3 23.5 35.3





#59

m/p-Xylene

Concen: 6.657 ppbv

RT: 12.384 min Scan# 3035

Delta R.T. 0.022 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

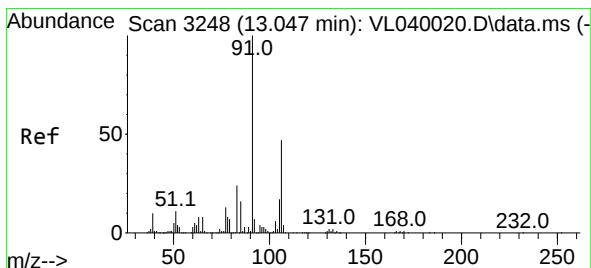
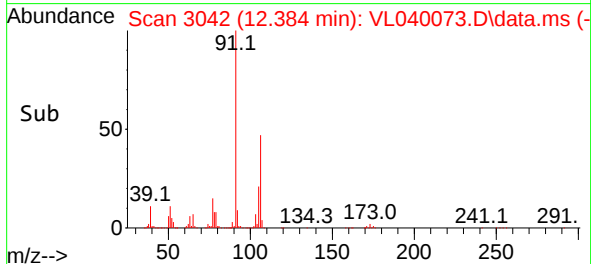
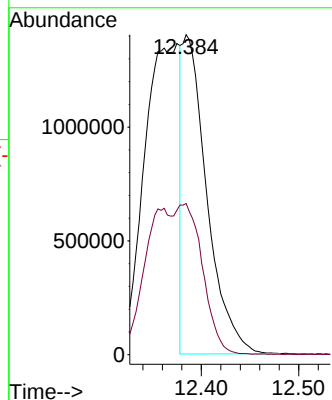
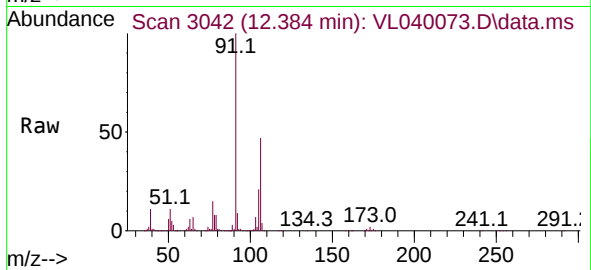
VL0109ABS01

Tgt Ion: 91 Resp: 2454838

Ion Ratio Lower Upper

91 100

106 105.9 35.5 53.3#



#60

o-Xylene

Concen: 7.890 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. 0.023 min

Lab File: VL040073.D

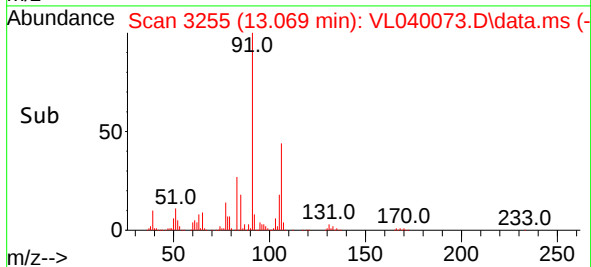
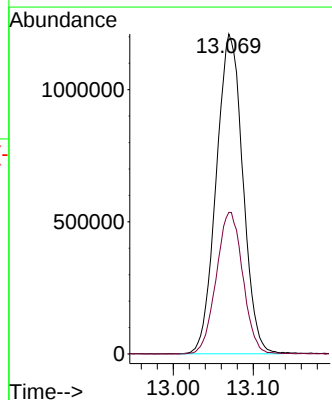
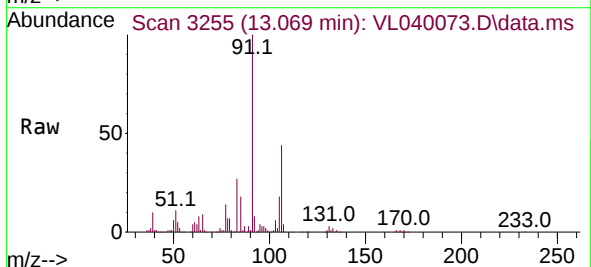
Acq: 9 Jan 2023 13:16

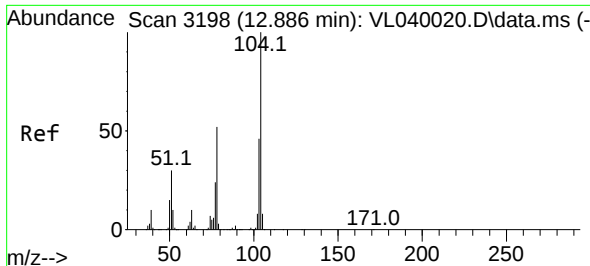
Tgt Ion: 91 Resp: 2787091

Ion Ratio Lower Upper

91 100

106 44.3 22.4 67.0

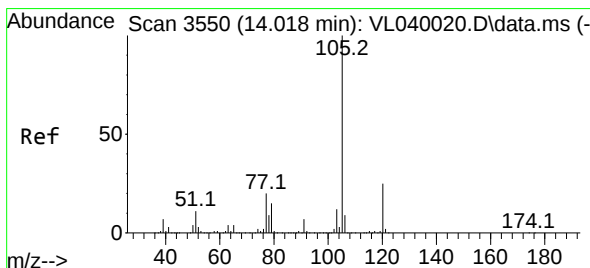
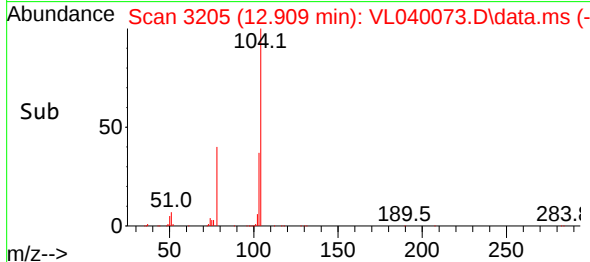
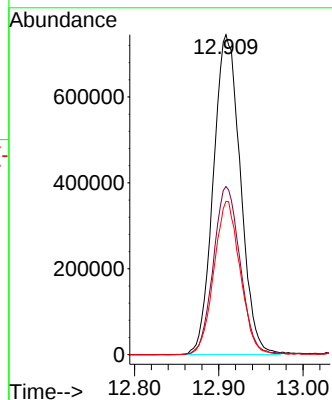
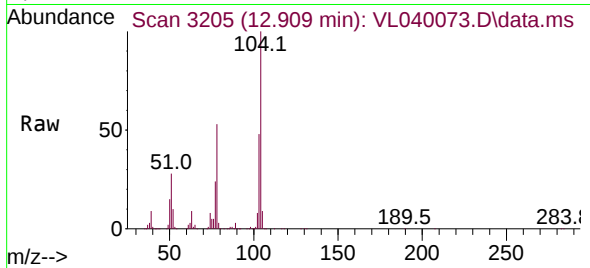




#61  
Styrene  
Concen: 8.752 ppbv  
RT: 12.909 min Scan# 3198  
Delta R.T. 0.023 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

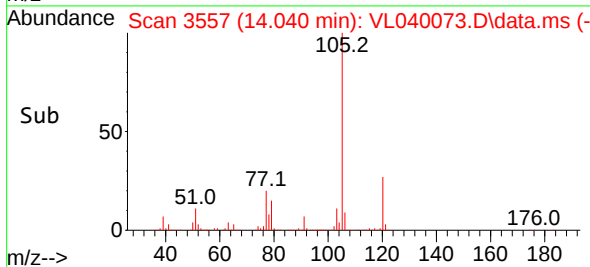
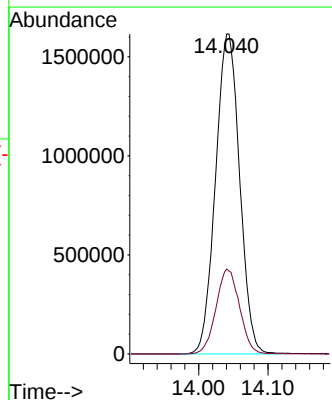
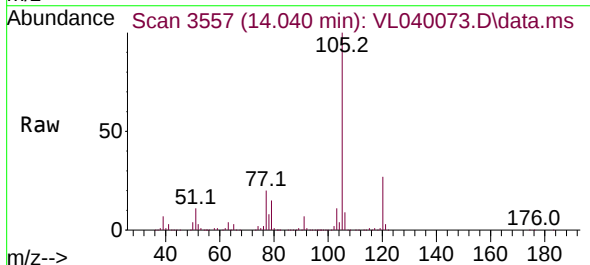
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

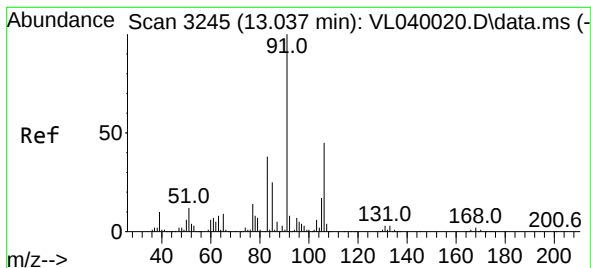
Tgt Ion:104 Resp: 1658168  
Ion Ratio Lower Upper  
104 100  
78 52.3 42.4 63.6  
103 46.8 37.2 55.8



#62  
Isopropylbenzene  
Concen: 7.665 ppbv  
RT: 14.040 min Scan# 3557  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion:105 Resp: 3903779  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.6 31.0

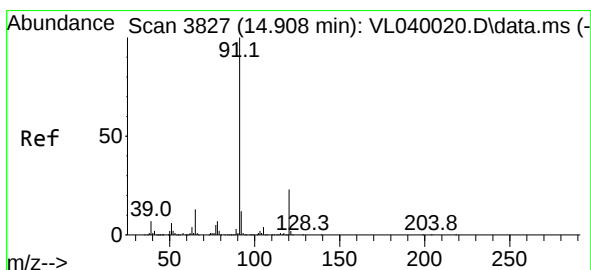
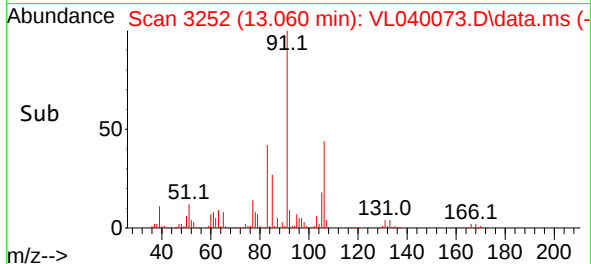
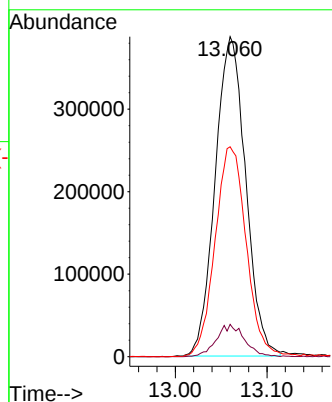
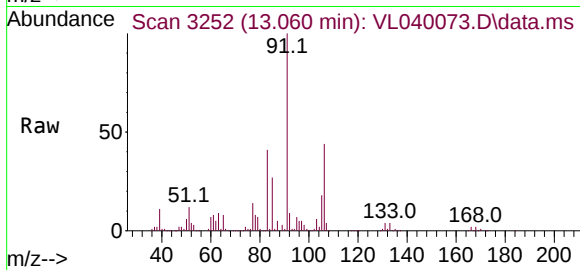




#63  
1,1,2,2-Tetrachloroethane  
Concen: 6.915 ppbv  
RT: 13.060 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

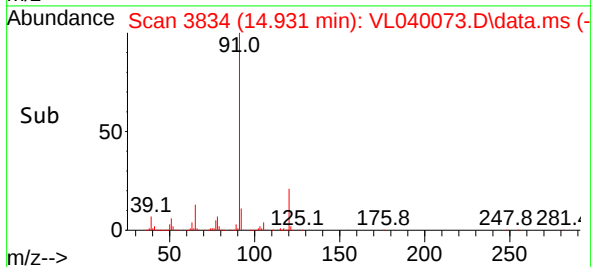
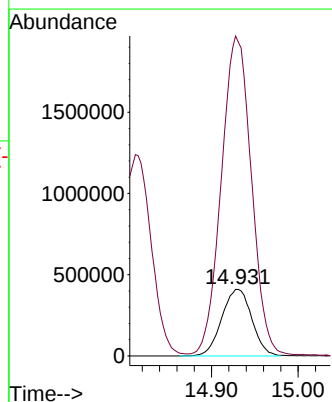
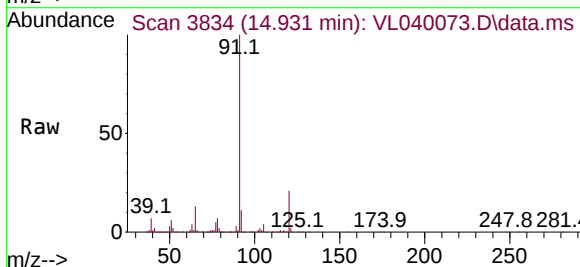
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

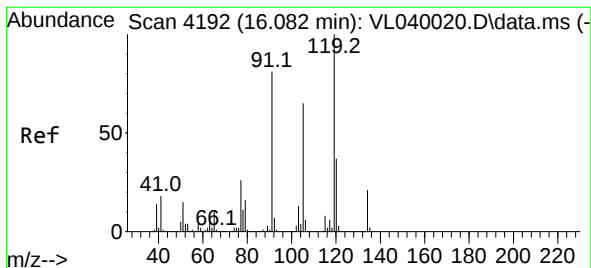
Tgt Ion: 83 Resp: 895535  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.5 13.5  
85 67.4 33.3 99.9



#64  
n-propylbenzene  
Concen: 7.678 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 120 Resp: 987691  
Ion Ratio Lower Upper  
120 100  
91 483.8 384.3 576.5





#65

tert-Butylbenzene

Concen: 7.511 ppbv

RT: 16.101 min Scan# 4192

Delta R.T. 0.019 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

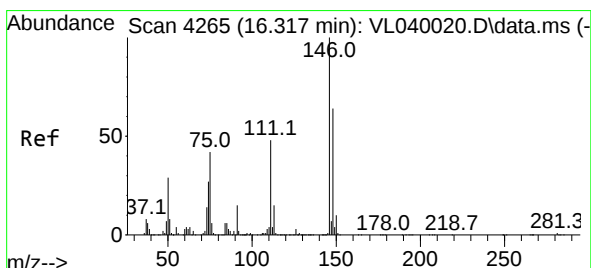
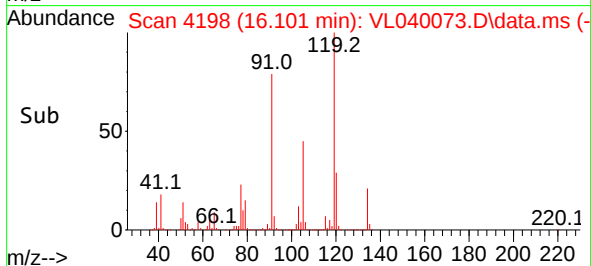
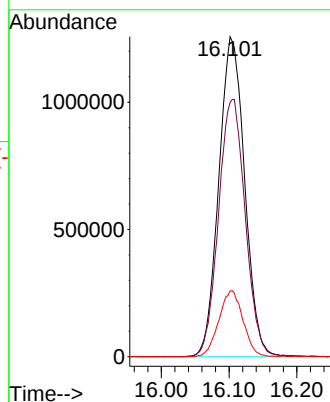
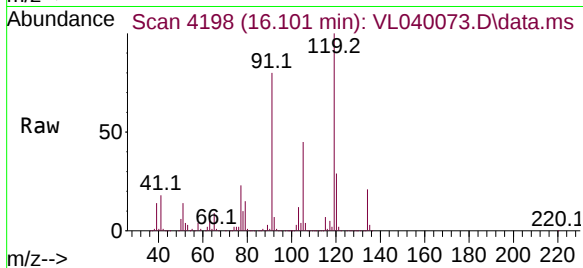
Tgt Ion:119 Resp: 3324093

Ion Ratio Lower Upper

119 100

91 83.4 66.9 100.3

134 19.5 15.8 23.6



#66

Benzyl Chloride

Concen: 9.999 ppbv

RT: 16.342 min Scan# 4273

Delta R.T. 0.026 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

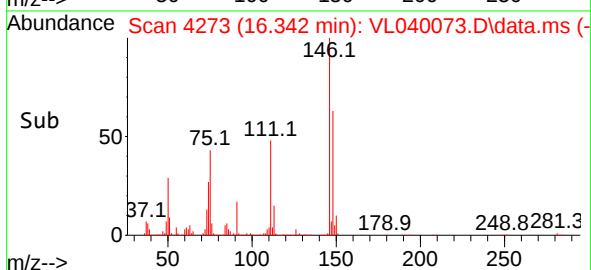
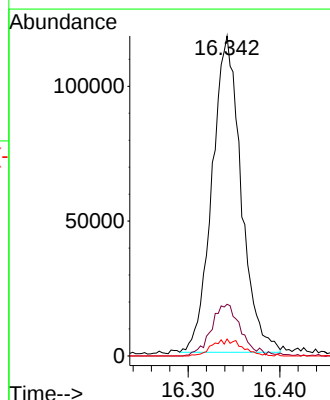
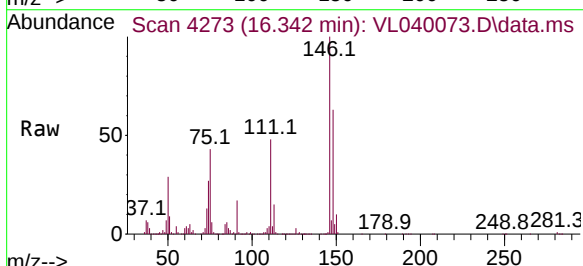
Tgt Ion: 91 Resp: 258067

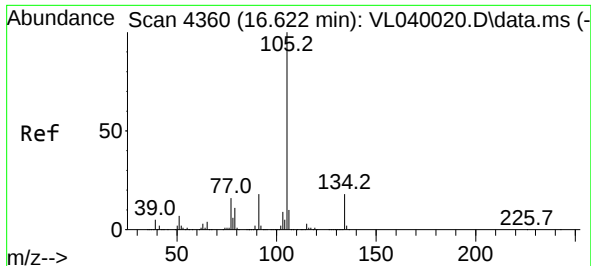
Ion Ratio Lower Upper

91 100

126 17.0 12.2 18.2

128 5.5 4.2 6.2

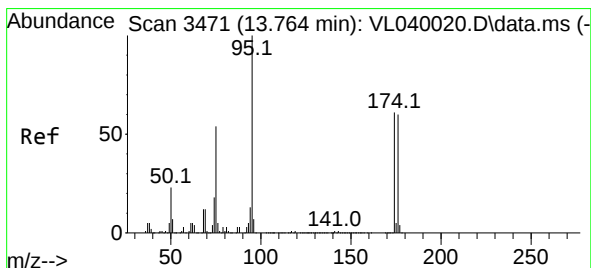
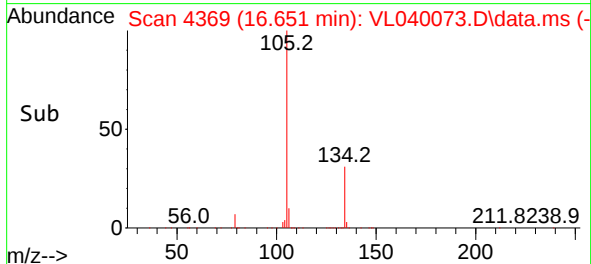
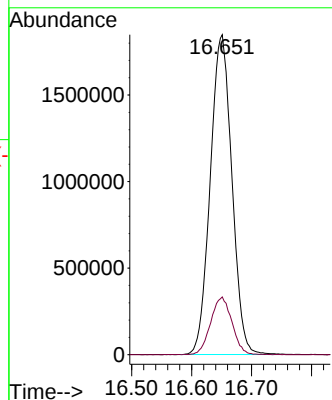
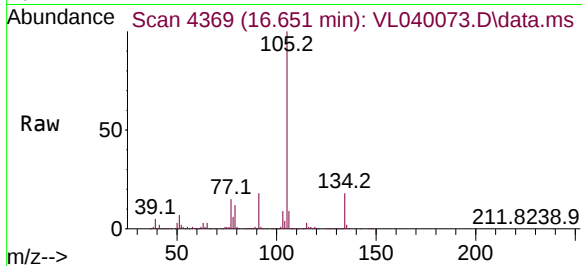




#67  
 sec-Butylbenzene  
 Concen: 7.458 ppbv  
 RT: 16.651 min Scan# 41  
 Delta R.T. 0.029 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

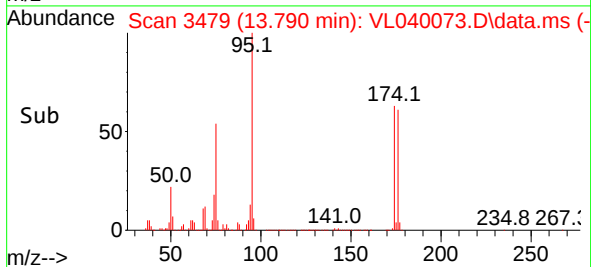
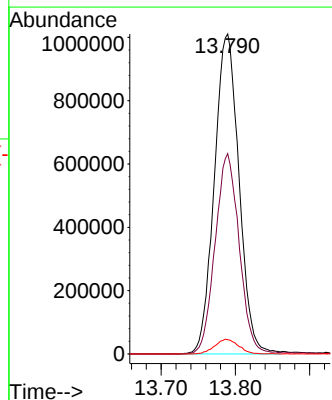
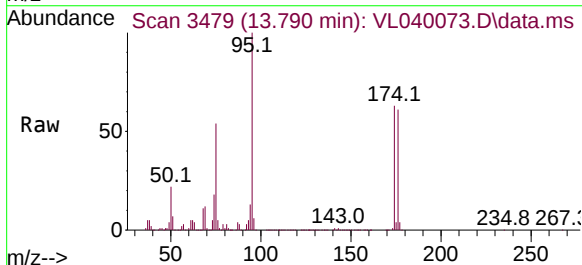
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0109ABS01

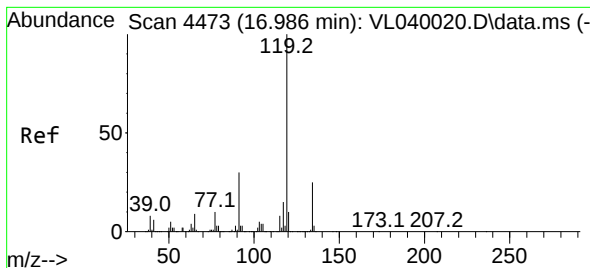
Tgt Ion:105 Resp: 4625869  
 Ion Ratio Lower Upper  
 105 100  
 134 17.9 14.2 21.4



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.250 ppbv  
 RT: 13.790 min Scan# 3479  
 Delta R.T. 0.026 min  
 Lab File: VL040073.D  
 Acq: 9 Jan 2023 13:16

Tgt Ion: 95 Resp: 2332608  
 Ion Ratio Lower Upper  
 95 100  
 174 61.3 48.6 73.0  
 175 4.5 3.4 5.2





#69

p-Isopropyltoluene

Concen: 7.586 ppbv

RT: 17.008 min Scan# 4473

Delta R.T. 0.023 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

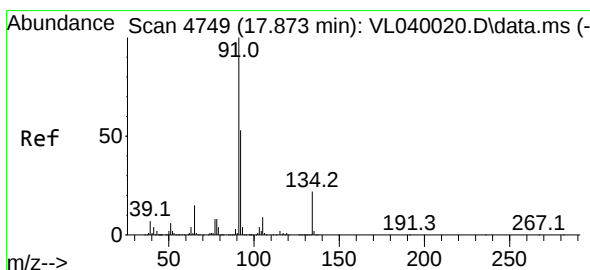
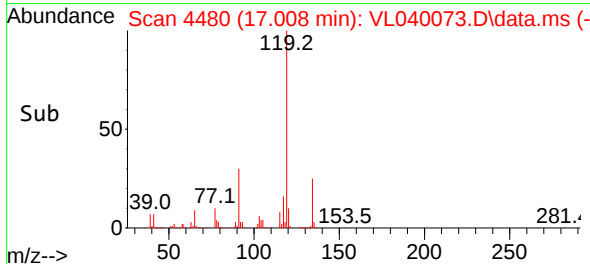
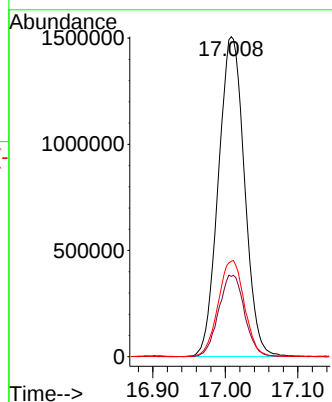
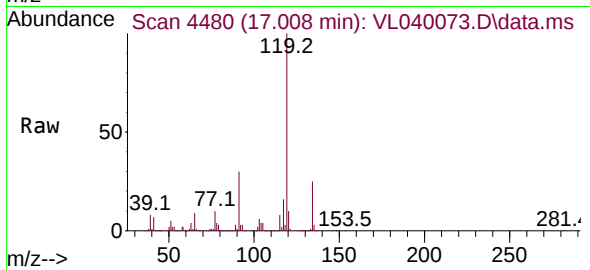
Tgt Ion:119 Resp: 3758718

Ion Ratio Lower Upper

119 100

134 25.5 20.2 30.4

91 30.3 24.2 36.4



#70

n-Butylbenzene

Concen: 7.558 ppbv

RT: 17.899 min Scan# 4757

Delta R.T. 0.026 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

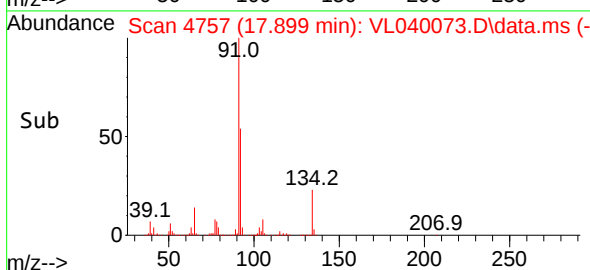
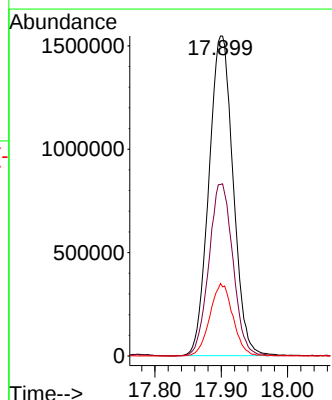
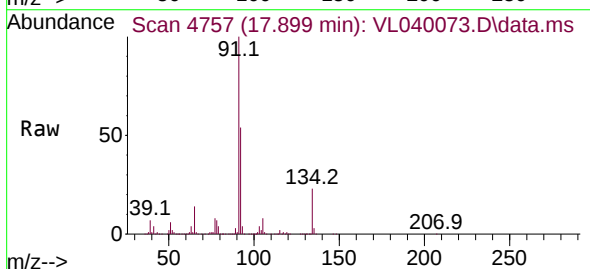
Tgt Ion: 91 Resp: 3923214

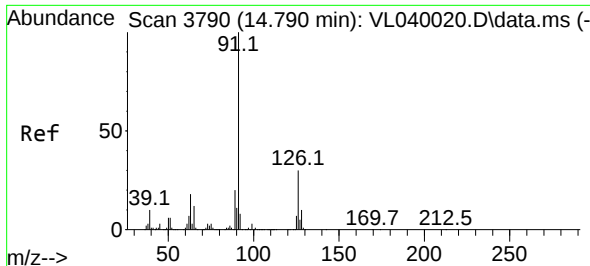
Ion Ratio Lower Upper

91 100

92 53.8 43.2 64.8

134 21.7 17.4 26.2

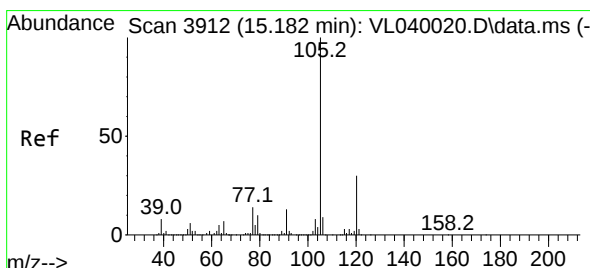
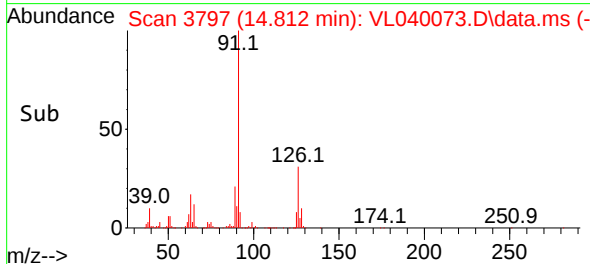
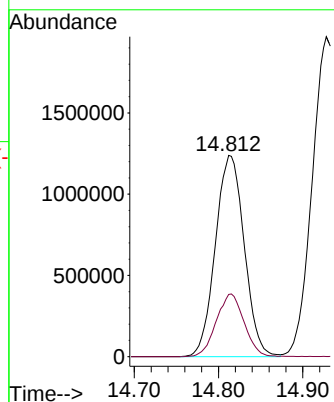
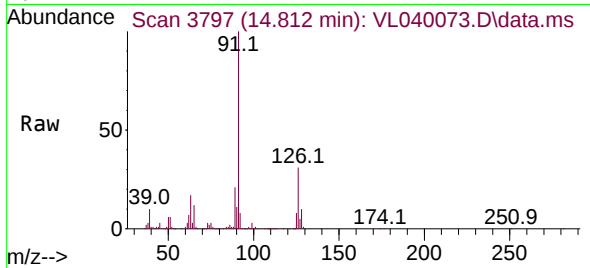




#71  
2-Chlorotoluene  
Concen: 7.574 ppbv  
RT: 14.812 min Scan# 31  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

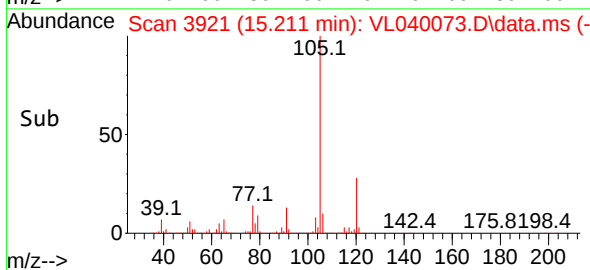
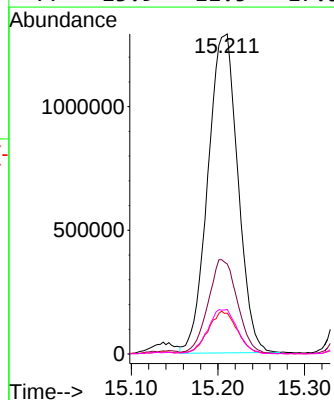
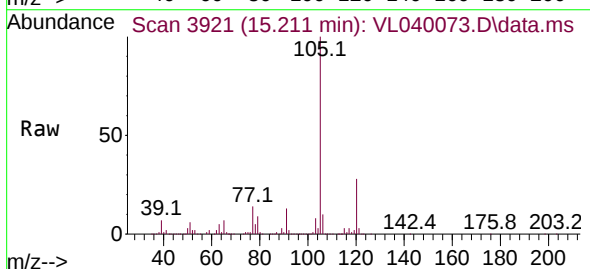
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0109ABS01

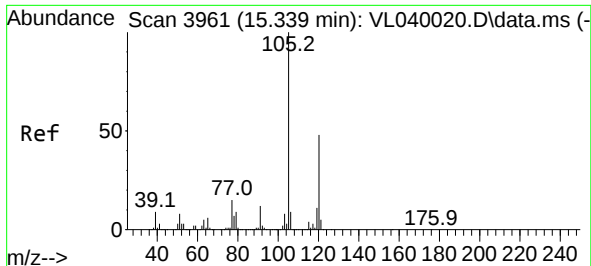
Tgt Ion: 91 Resp: 2943186  
Ion Ratio Lower Upper  
91 100  
126 30.2 12.1 48.5



#72  
4-Ethyltoluene  
Concen: 7.907 ppbv  
RT: 15.211 min Scan# 3921  
Delta R.T. 0.029 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion: 105 Resp: 3101520  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.5 35.3  
91 13.7 10.5 15.7  
77 13.9 11.5 17.3

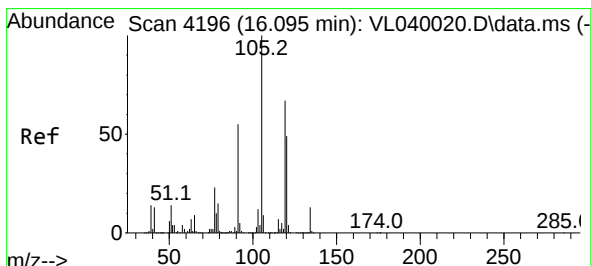
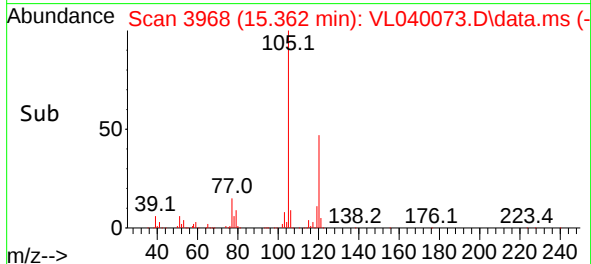
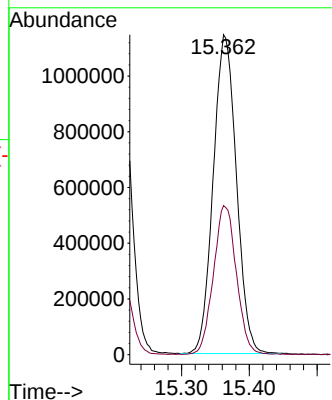
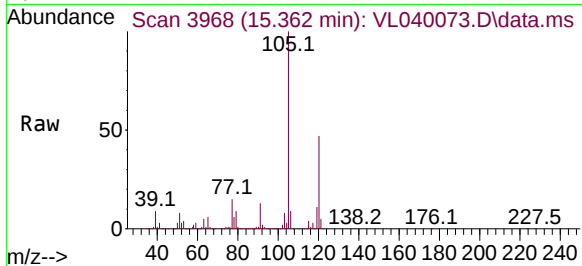




#73  
1,3,5-Trimethylbenzene  
Concen: 7.682 ppbv  
RT: 15.362 min Scan# 3961  
Delta R.T. 0.022 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

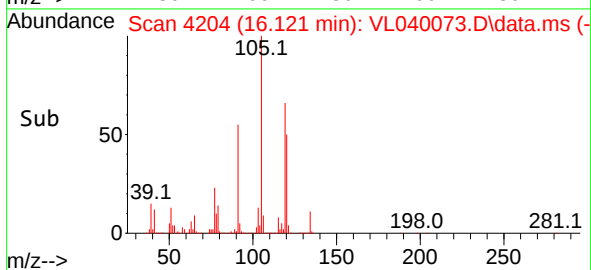
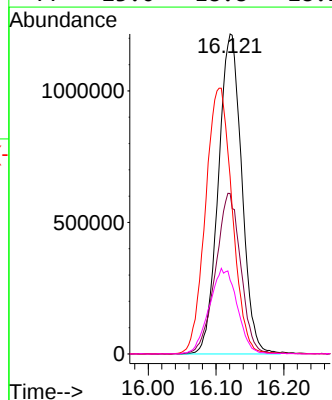
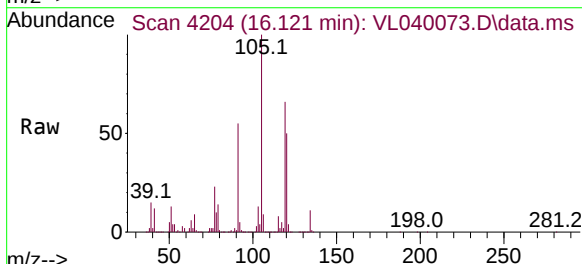
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0109ABS01

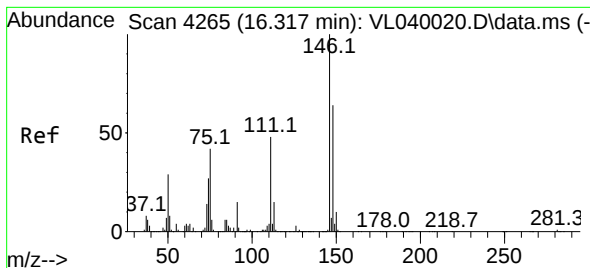
Tgt Ion:105 Resp: 2717458  
Ion Ratio Lower Upper  
105 100  
120 46.6 38.4 57.6



#74  
1,2,4-Trimethylbenzene  
Concen: 7.468 ppbv  
RT: 16.121 min Scan# 4204  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion:105 Resp: 2911989  
Ion Ratio Lower Upper  
105 100  
120 50.1 39.3 58.9  
91 55.0 44.2 66.4  
77 23.0 18.8 28.2





#75

1,3-Dichlorobenzene

Concen: 7.626 ppbv

RT: 16.342 min Scan# 41

Delta R.T. 0.026 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01

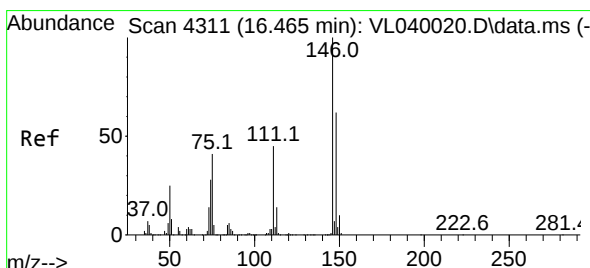
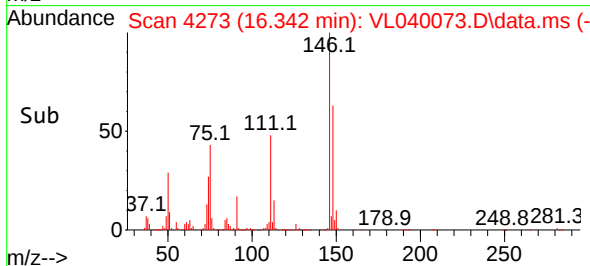
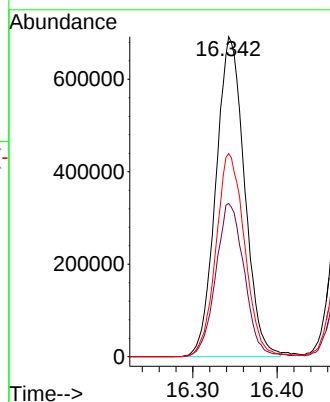
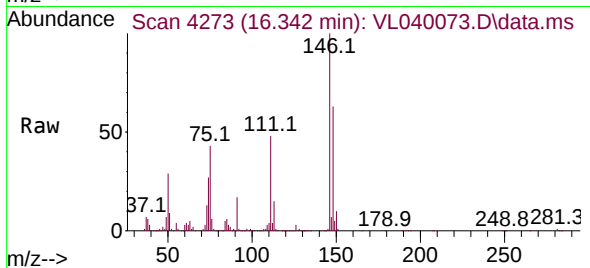
Tgt Ion:146 Resp: 1627087

Ion Ratio Lower Upper

146 100

111 47.8 23.9 71.8

148 64.0 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 7.600 ppbv

RT: 16.487 min Scan# 4318

Delta R.T. 0.023 min

Lab File: VL040073.D

Acq: 9 Jan 2023 13:16

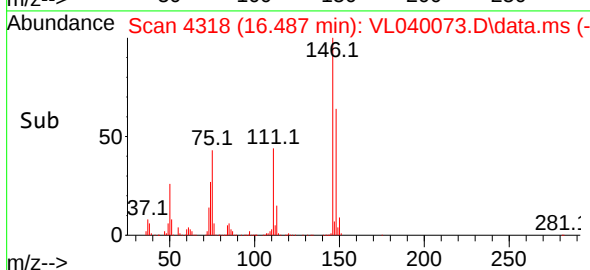
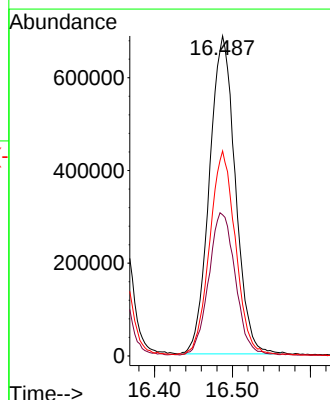
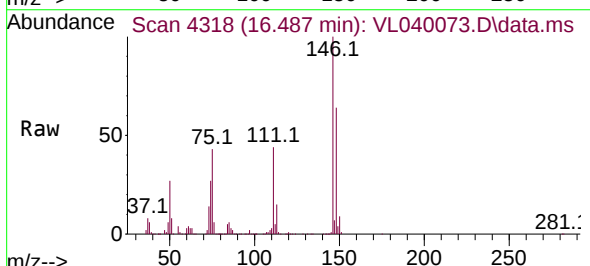
Tgt Ion:146 Resp: 1583094

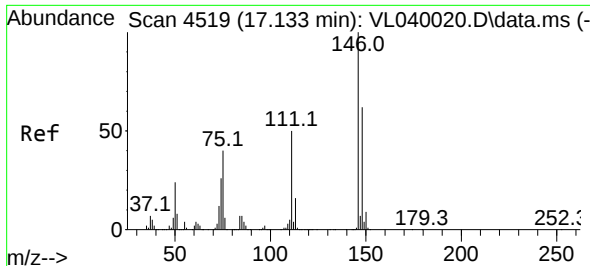
Ion Ratio Lower Upper

146 100

111 47.1 23.4 70.2

148 64.8 32.0 96.2

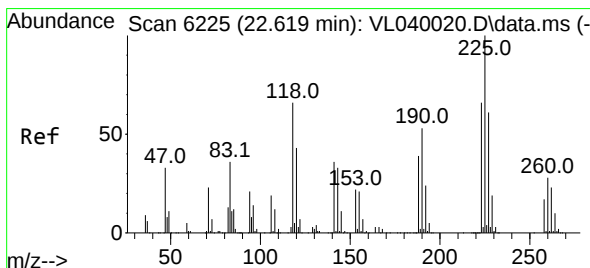
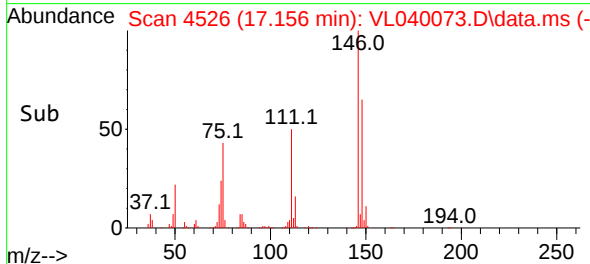
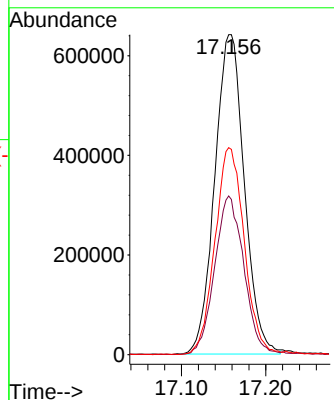
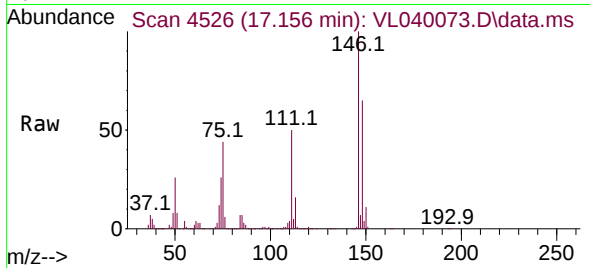




#77  
1,2-Dichlorobenzene  
Concen: 7.631 ppbv  
RT: 17.156 min Scan# 4526  
Delta R.T. 0.023 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

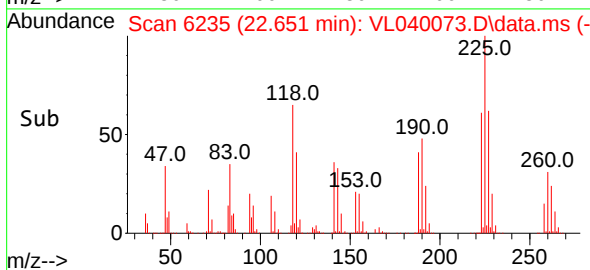
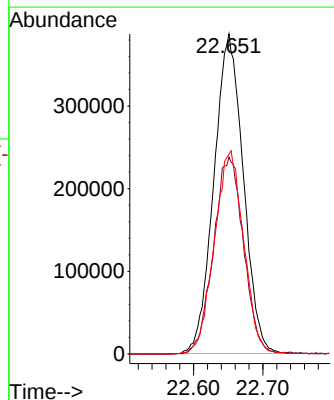
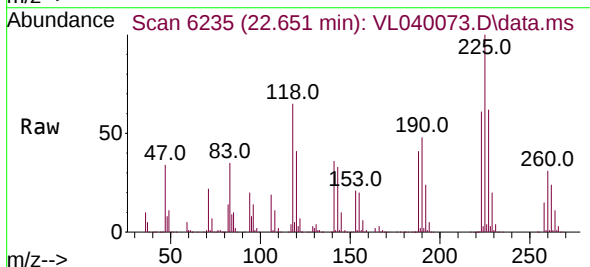
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

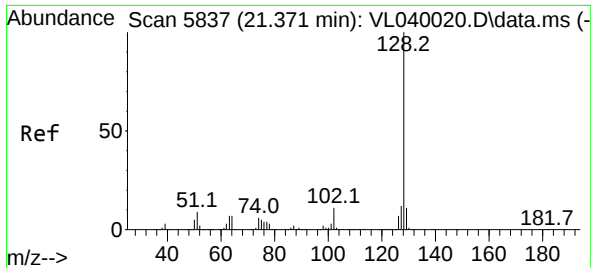
Tgt Ion:146 Resp: 1561397  
Ion Ratio Lower Upper  
146 100  
111 49.3 25.3 75.9  
148 64.7 31.9 95.9



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.011 ppbv  
RT: 22.651 min Scan# 6235  
Delta R.T. 0.032 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion:225 Resp: 1137116  
Ion Ratio Lower Upper  
225 100  
223 63.2 0.0 0.0#  
227 63.8 0.0 0.0#

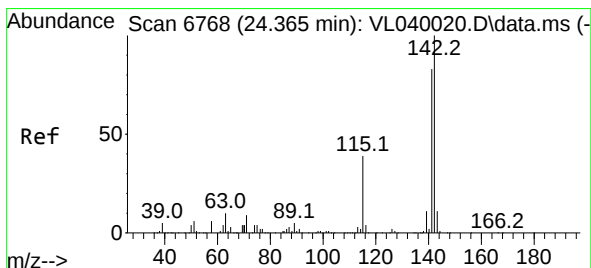
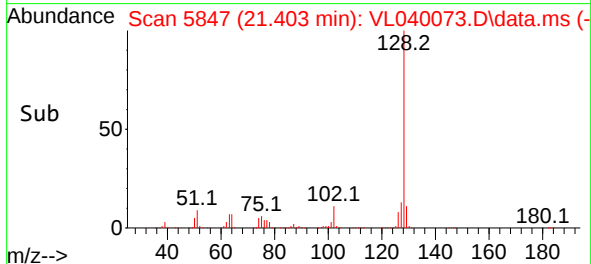
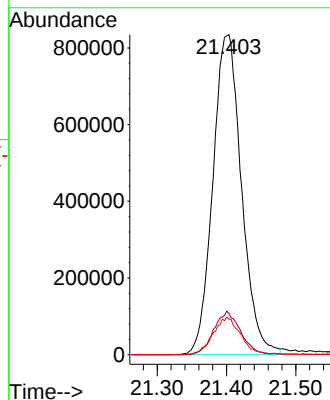
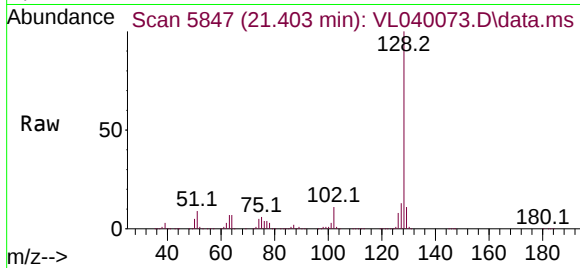




#79  
Naphthalene  
Concen: 10.289 ppbv  
RT: 21.403 min Scan# 5847  
Delta R.T. 0.032 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

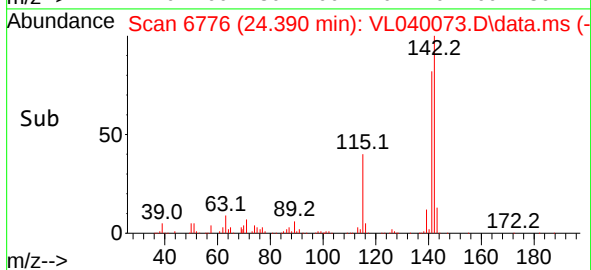
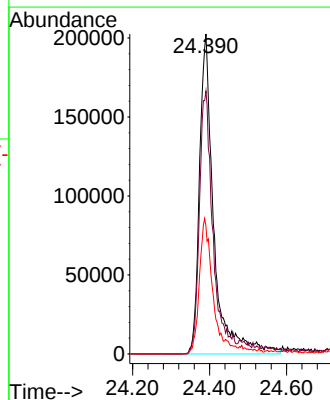
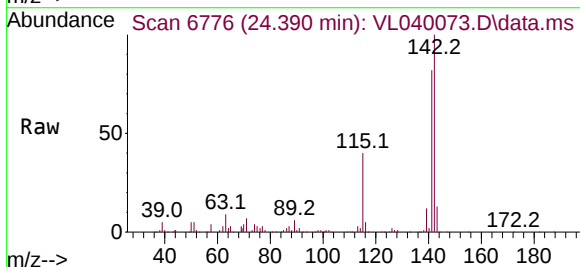
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0109ABS01

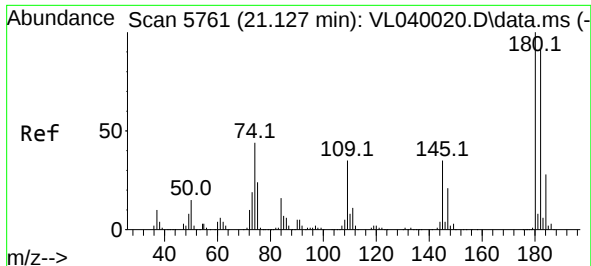
Tgt Ion:128 Resp: 2390680  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.0 15.0  
129 11.1 8.8 13.2



#80  
Naphthalene,2-methyl-  
Concen: 7.373 ppbv  
RT: 24.390 min Scan# 6776  
Delta R.T. 0.026 min  
Lab File: VL040073.D  
Acq: 9 Jan 2023 13:16

Tgt Ion:142 Resp: 524100  
Ion Ratio Lower Upper  
142 100  
141 80.5 65.3 97.9  
115 42.8 31.9 47.9





#81

1,2,4-Trichlorobenzene

Concen: 8.863 ppbv

RT: 21.153 min Scan# 51

Delta R.T. 0.026 min

Lab File: VL040073.D

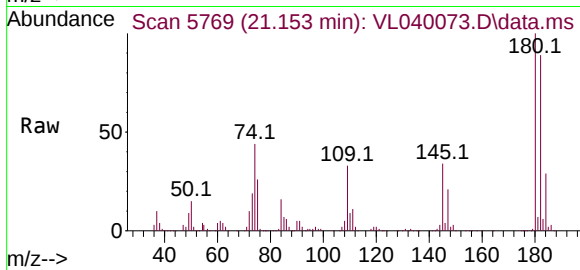
Acq: 9 Jan 2023 13:16

Instrument :

MSVOA\_L

ClientSampleId :

VL0109ABS01



Tgt Ion:180 Resp: 1223135

Ion Ratio Lower Upper

180 100

182 96.6 76.6 115.0

184 30.1 24.9 37.3

