

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121922\  
 Data File : VL040021.D  
 Acq On : 19 Dec 2022 10:16  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Dec 20 04:21:29 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 04:20:10 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.173  | 49    | 1027724  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.635  | 114   | 3010312  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.455 | 117   | 2819748  | 10.000   | ppbv   | # 0.00   |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.764 | 95    | 2093310  | 9.719    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 97.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.713  | 85    | 373623   | 1.942    | ppbv   | 96       |
| 3) Chlorodifluoromethane      | 2.655  | 51    | 331168   | 2.184    | ppbv   | 99       |
| 4) Chloromethane              | 2.796  | 50    | 208714   | 2.197    | ppbv   | 95       |
| 5) Vinyl Chloride             | 2.902  | 62    | 174131   | 2.265    | ppbv   | 94       |
| 6) Bromomethane               | 3.102  | 94    | 59769    | 2.116    | ppbv   | 91       |
| 7) Chloroethane               | 3.179  | 64    | 62137    | 2.142    | ppbv   | 98       |
| 8) Dichlorotetrafluoroethane  | 2.838  | 85    | 441470   | 2.181    | ppbv   | 100      |
| 9) Propene                    | 2.674  | 41    | 141610   | 2.201    | ppbv   | 95       |
| 10) Heptane                   | 7.561  | 43    | 352618   | 2.249    | ppbv   | 98       |
| 11) Trichlorofluoromethane    | 3.542  | 101   | 463233   | 2.216    | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 4.047  | 101   | 347043   | 2.192    | ppbv   | 99       |
| 13) Ethanol                   | 3.227  | 45    | 9893     | 1.820    | ppbv   | # 44     |
| 14) Bromoethene               | 3.346  | 108   | 128835   | 2.161    | ppbv   | 94       |
| 15) Acetone                   | 3.452  | 43    | 365958   | 2.302    | ppbv   | 97       |
| 16) 1,3-Butadiene             | 2.967  | 39    | 164724   | 2.384    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 3.864  | 59    | 332409   | 2.136    | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 3.861  | 96    | 153707   | 2.231    | ppbv   | 88       |
| 19) Isopropyl Alcohol         | 3.565  | 45    | 174556   | 2.228    | ppbv   | # 95     |
| 20) Methylene Chloride        | 3.915  | 84    | 149987   | 2.219    | ppbv   | 96       |
| 21) Allyl Chloride            | 3.976  | 41    | 212385   | 2.223    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 4.427  | 96    | 148825   | 2.167    | ppbv   | 94       |
| 23) Vinyl Acetate             | 4.610  | 43    | 98194    | 1.948    | ppbv   | # 97     |
| 24) 1,1-Dichloroethane        | 4.546  | 63    | 327185   | 2.210    | ppbv   | 98       |
| 25) Ethyl Acetate             | 5.185  | 43    | 609811   | 2.215    | ppbv   | 99       |
| 26) Hexane                    | 5.195  | 57    | 257657   | 2.227    | ppbv   | 96       |
| 27) Carbon Disulfide          | 4.108  | 76    | 326420   | 2.236    | ppbv   | 99       |
| 28) Methyl tert-Butyl Ether   | 4.571  | 73    | 304359   | 2.232    | ppbv   | 100      |
| 29) Chloroform                | 5.256  | 83    | 380604   | 2.155    | ppbv   | 98       |
| 30) Cyclohexane               | 6.584  | 84    | 232628   | 2.270    | ppbv   | 94       |
| 31) cis-1,2-Dichloroethene    | 5.057  | 61    | 234515   | 2.128    | ppbv   | 91       |
| 32) 1,1,1-Trichloroethane     | 5.983  | 97    | 445704   | 2.350    | ppbv   | 99       |
| 34) 2-Butanone                | 4.771  | 43    | 366782   | 2.308    | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 6.478  | 117   | 441703   | 2.359    | ppbv   | 100      |
| 36) Benzene                   | 6.349  | 78    | 606672   | 2.257    | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 5.787  | 62    | 358418   | 2.273    | ppbv   | 99       |
| 38) Trichloroethene           | 7.275  | 130   | 329383   | 2.371    | ppbv   | 92       |
| 39) 1,2-Dichloropropane       | 7.053  | 63    | 226397   | 2.247    | ppbv   | 95       |
| 40) 1,4-Dioxane               | 7.282  | 88    | 72878    | 1.595    | ppbv   | # 1      |
| 41) Tetrahydrofuran           | 5.545  | 42    | 106267   | 1.077    | ppbv   | # 32     |
| 42) Bromodichloromethane      | 7.227  | 83    | 485434   | 2.251    | ppbv   | 94       |
| 43) Methyl Methacrylate       | 7.459  | 69    | 231534   | 2.295    | ppbv   | 100      |
| 44) 2,2,4-Trimethylpentane    | 7.307  | 57    | 1007975  | 2.277    | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 8.690  | 75    | 184612   | 2.165    | ppbv   | 91       |

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 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Dec 20 04:21:29 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 04:20:10 2022  
 Response via : Initial Calibration

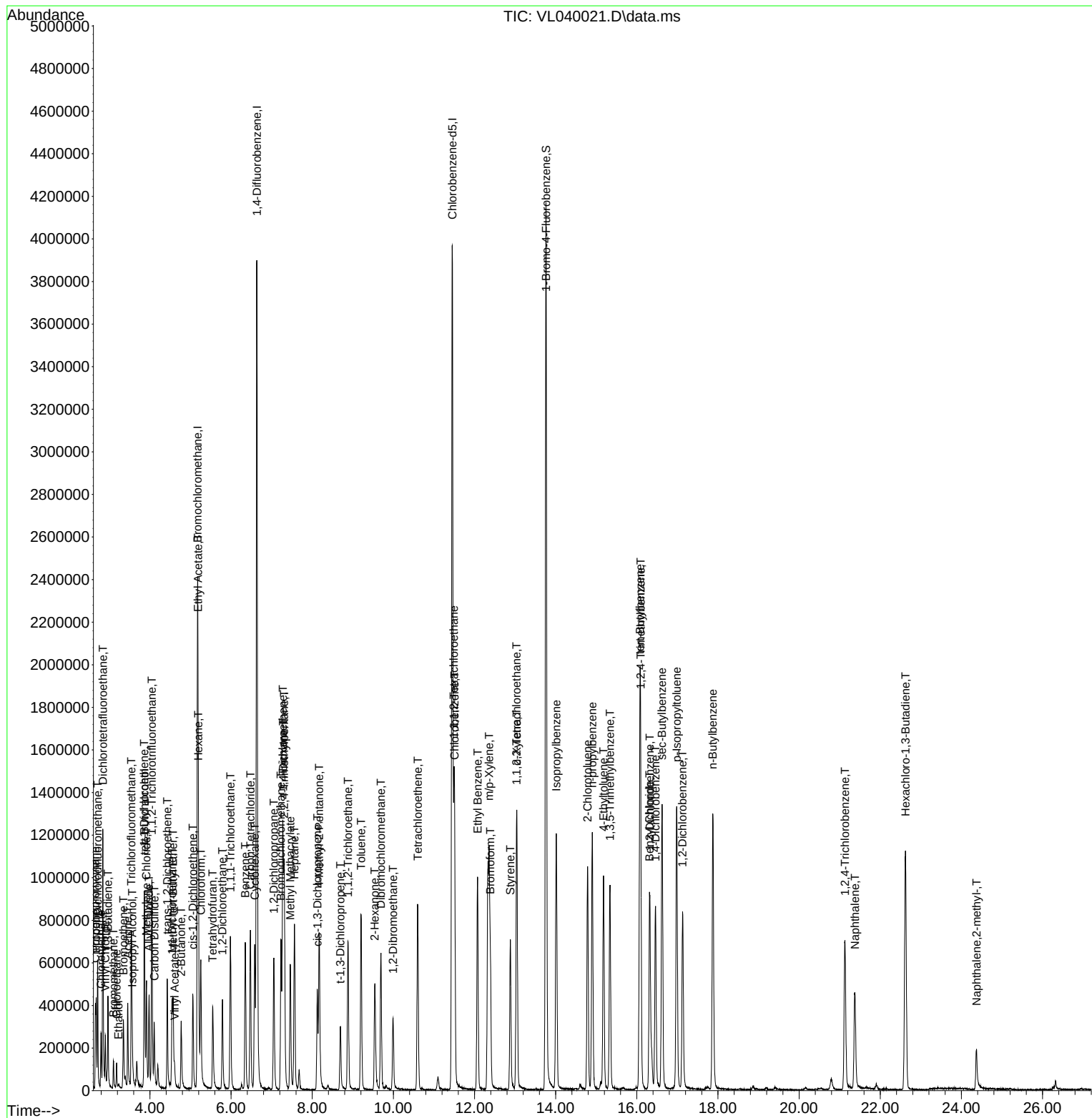
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.127  | 75   | 270584   | 2.250 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 8.880  | 97   | 249427   | 2.262 | ppbv   | 95       |
| 48) Dibromochloromethane      | 9.693  | 129  | 380104   | 2.262 | ppbv   | 100      |
| 49) Bromoform                 | 12.388 | 173  | 290184   | 2.267 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.169  | 43   | 616955   | 2.312 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.542  | 43   | 477909   | 2.310 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.600 | 164  | 206385   | 2.243 | ppbv   | 98       |
| 53) Toluene                   | 9.204  | 91   | 676531   | 2.273 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 9.992  | 107  | 280198   | 2.374 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 11.491 | 131  | 291832   | 2.242 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.510 | 112  | 528541   | 2.208 | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.076 | 91   | 920923   | 2.299 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.359 | 91   | 836246   | 2.396 | ppbv # | 42       |
| 60) o-Xylene                  | 13.040 | 91   | 765089   | 2.289 | ppbv   | 98       |
| 61) Styrene                   | 12.883 | 104  | 411314   | 2.308 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.018 | 105  | 1093310  | 2.268 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.034 | 83   | 294274   | 2.393 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.902 | 120  | 280044   | 2.308 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 16.076 | 119  | 968146   | 2.313 | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.310 | 91   | 20435    | 0.940 | ppbv # | 61       |
| 67) sec-Butylbenzene          | 16.622 | 105  | 1368148  | 2.330 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.982 | 119  | 1113169  | 2.374 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.873 | 91   | 1174066  | 2.396 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 14.786 | 91   | 848098   | 2.306 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.179 | 105  | 848637   | 2.286 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.339 | 105  | 767082   | 2.284 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.095 | 105  | 854017   | 2.314 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.320 | 146  | 218995   | 1.087 | ppbv # | 14       |
| 76) 1,4-Dichlorobenzene       | 16.461 | 146  | 443213   | 2.228 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.127 | 146  | 441061   | 2.275 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.625 | 225  | 313552   | 2.340 | ppbv # | 100      |
| 79) Naphthalene               | 21.378 | 128  | 264349   | 1.206 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 147853   | 2.350 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.130 | 180  | 158103   | 1.218 | ppbv # | 12       |

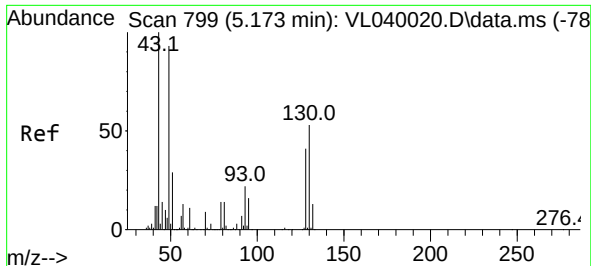
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VSTDIC002  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

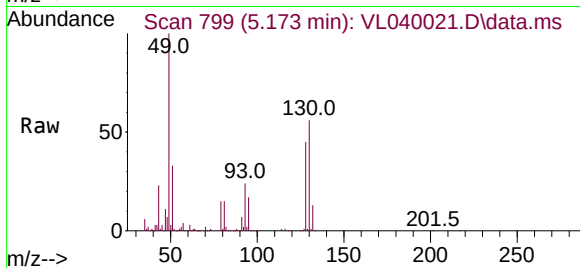
Quant Time: Dec 20 04:21:29 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
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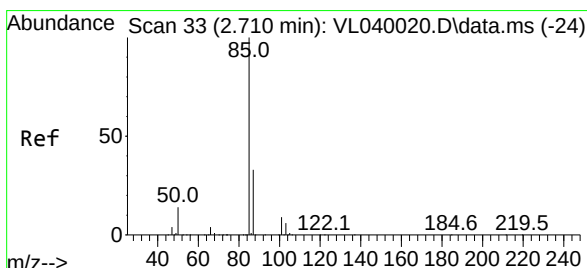
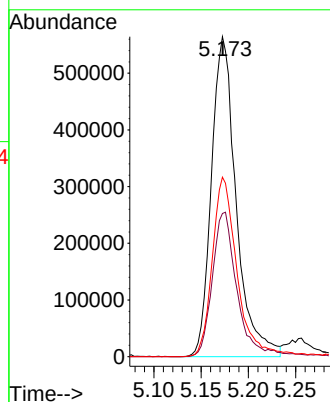
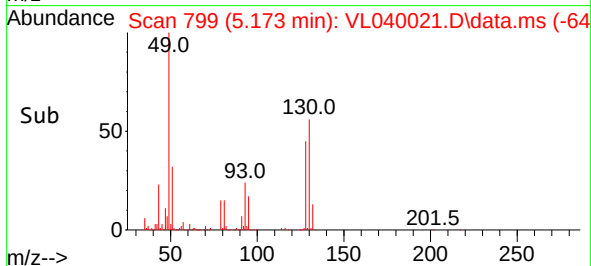
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.173 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 49 Resp: 1027724

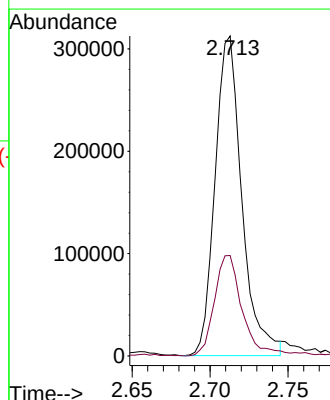
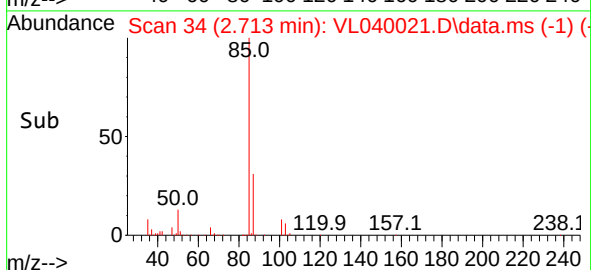
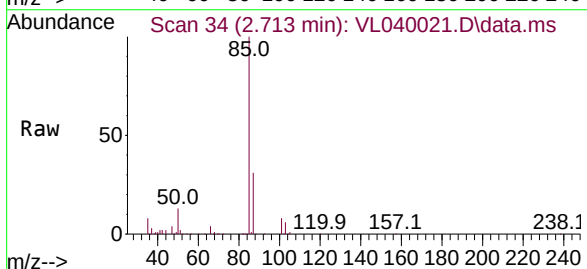
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 45.8  | 22.4  | 67.3  |
| 130 | 56.6  | 28.9  | 86.8  |

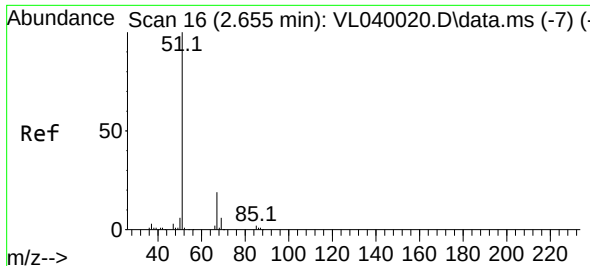


#2  
Dichlorodifluoromethane  
Concen: 1.942 ppbv  
RT: 2.713 min Scan# 34  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 85 Resp: 373623

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 31.3  | 26.6  | 40.0  |

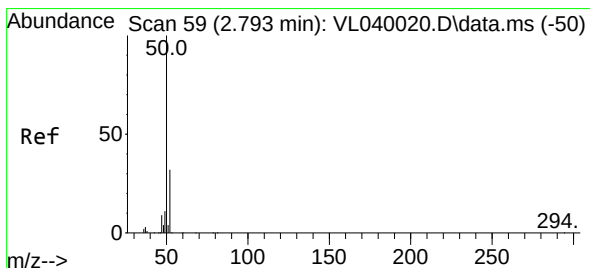
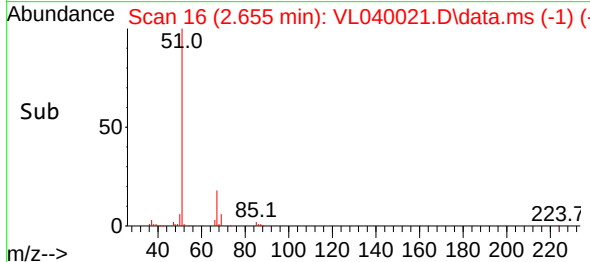
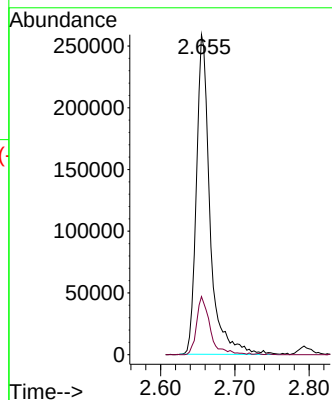
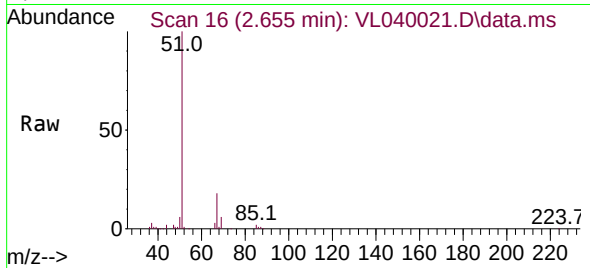




#3  
Chlorodifluoromethane  
Concen: 2.184 ppbv  
RT: 2.655 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

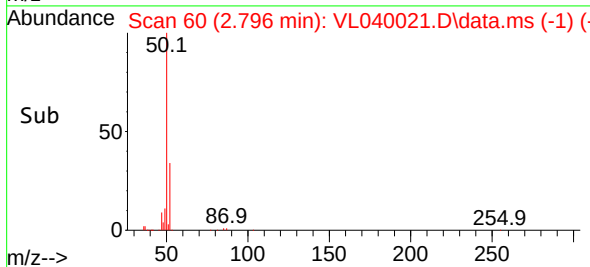
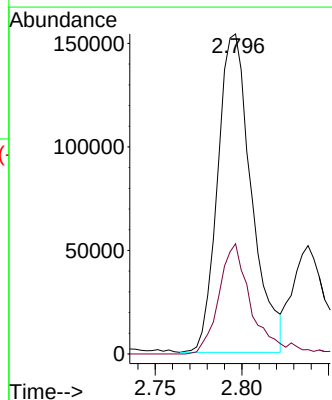
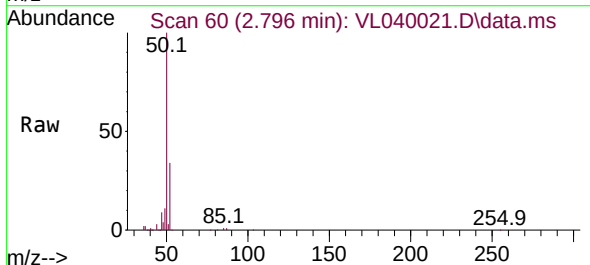
Instrument :  
MSVOA\_L  
ClientSampleId :

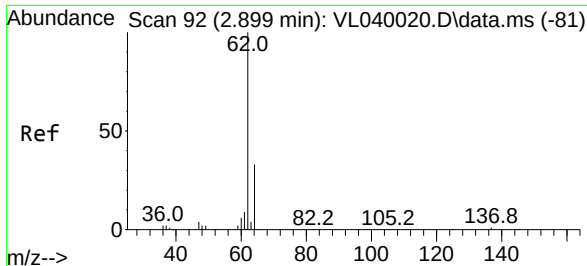
Tgt Ion: 51 Resp: 331168  
Ion Ratio Lower Upper  
51 100  
67 18.4 15.3 22.9



#4  
Chloromethane  
Concen: 2.197 ppbv  
RT: 2.796 min Scan# 60  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 50 Resp: 208714  
Ion Ratio Lower Upper  
50 100  
52 34.9 25.5 38.3

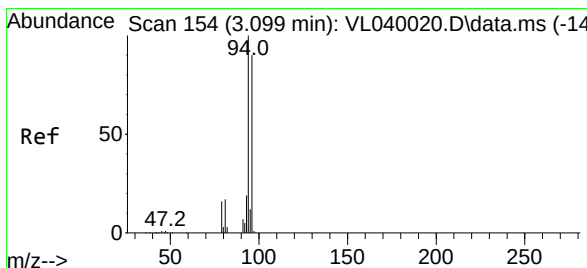
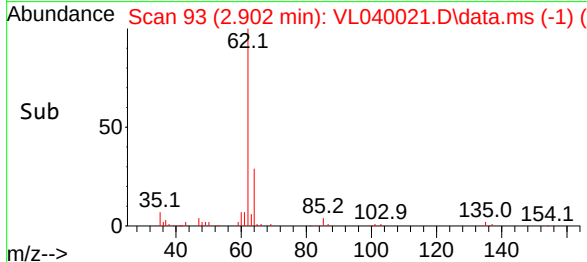
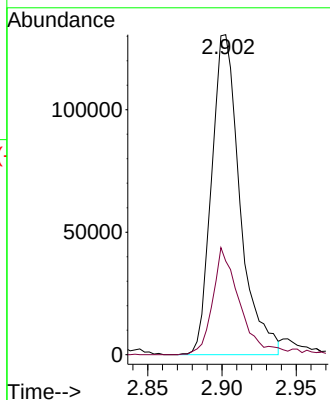
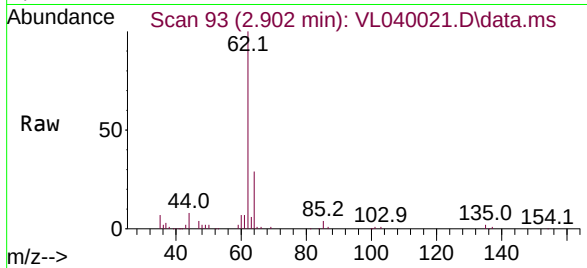




#5  
 Vinyl Chloride  
 Concen: 2.265 ppbv  
 RT: 2.902 min Scan# 91  
 Delta R.T. 0.003 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

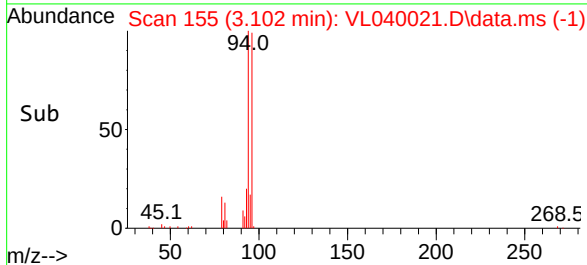
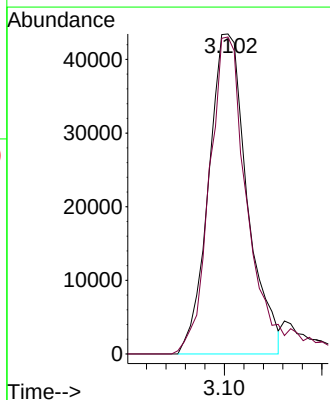
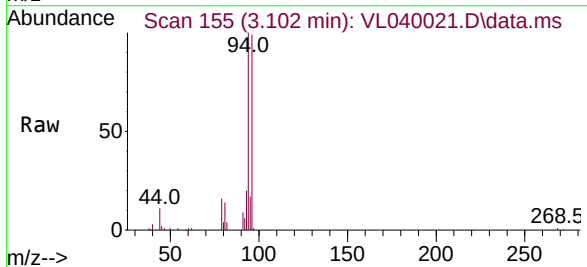
Instrument :  
 MSVOA\_L  
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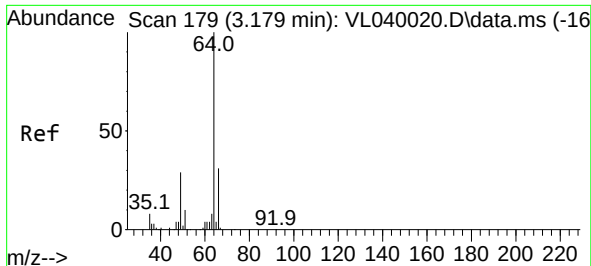
Tgt Ion: 62 Resp: 174131  
 Ion Ratio Lower Upper  
 62 100  
 64 29.2 26.1 39.1



#6  
 Bromomethane  
 Concen: 2.116 ppbv  
 RT: 3.102 min Scan# 155  
 Delta R.T. 0.003 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

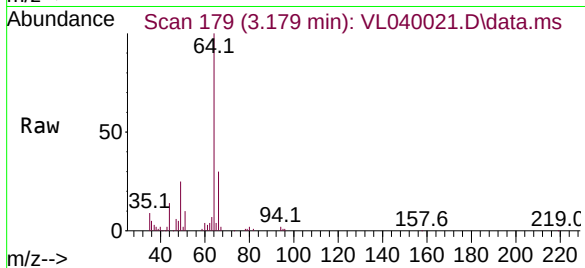
Tgt Ion: 94 Resp: 59769  
 Ion Ratio Lower Upper  
 94 100  
 96 98.1 72.0 108.0



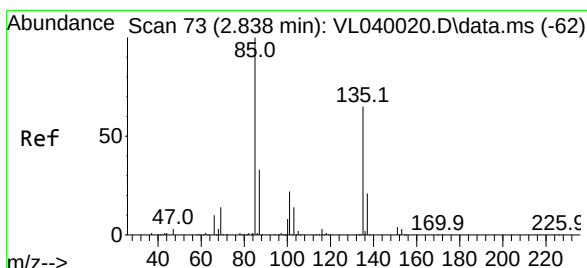
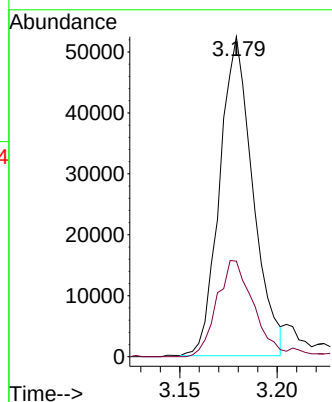
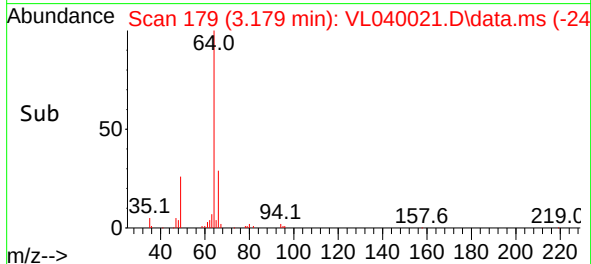


#7  
Chloroethane  
Concen: 2.142 ppbv  
RT: 3.179 min Scan# 179  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :

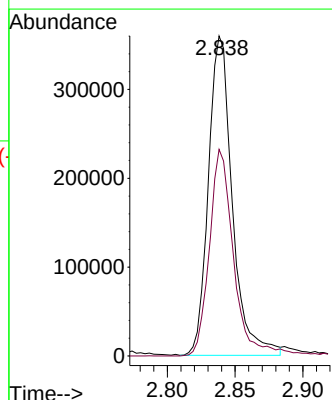
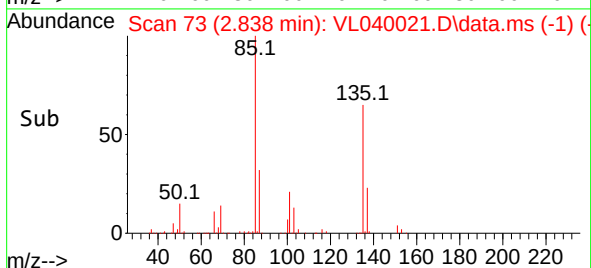
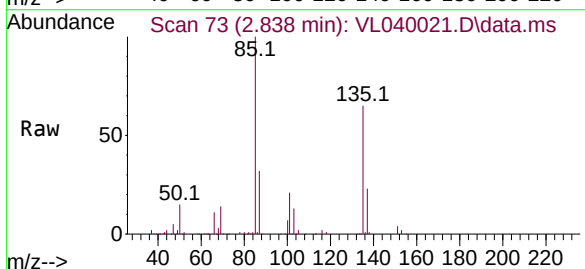


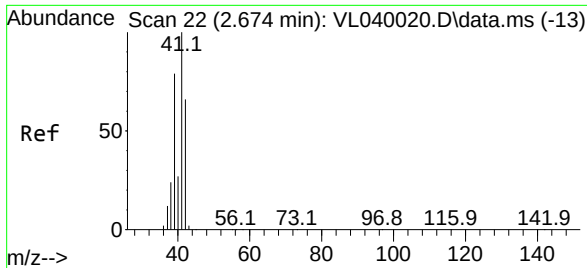
Tgt Ion: 64 Resp: 62137  
Ion Ratio Lower Upper  
64 100  
66 29.8 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 2.181 ppbv  
RT: 2.838 min Scan# 73  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 85 Resp: 441470  
Ion Ratio Lower Upper  
85 100  
135 66.8 53.2 79.8

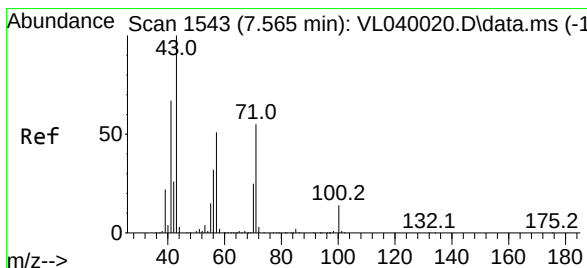
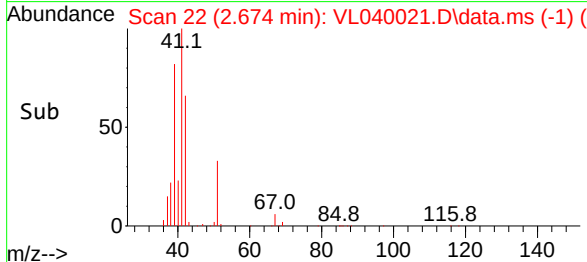
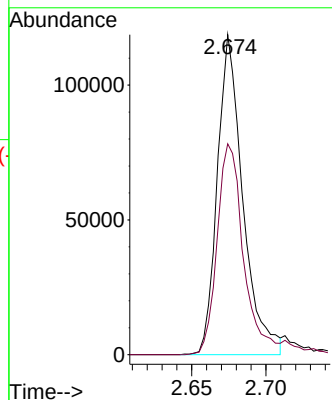
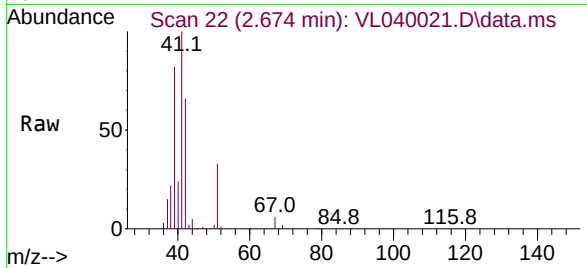




#9  
 Propene  
 Concen: 2.201 ppbv  
 RT: 2.674 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

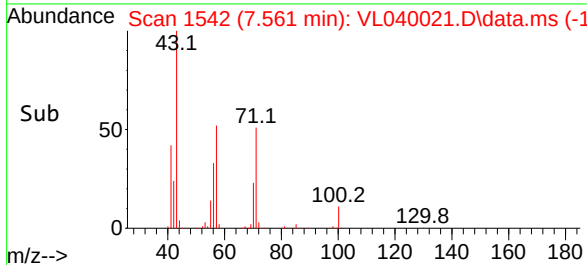
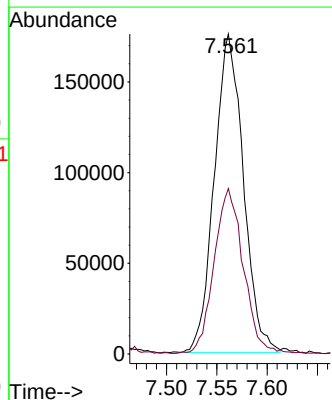
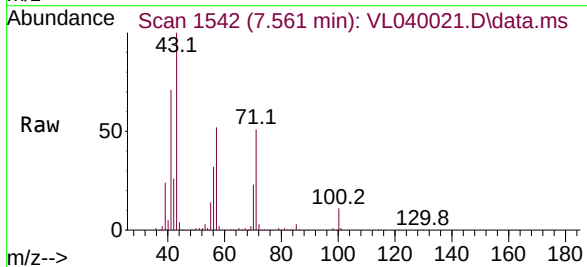
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tgt Ion: 41 Resp: 141610  
 Ion Ratio Lower Upper  
 41 100  
 42 72.2 54.8 82.2

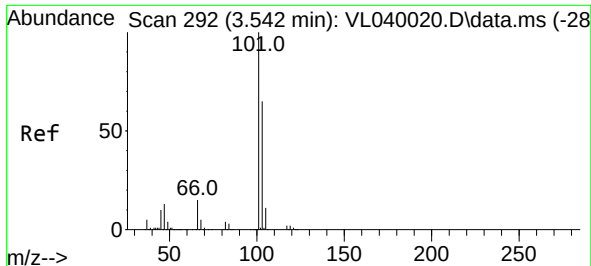


#10  
 Heptane  
 Concen: 2.249 ppbv  
 RT: 7.561 min Scan# 1542  
 Delta R.T. -0.003 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

Tgt Ion: 43 Resp: 352618  
 Ion Ratio Lower Upper  
 43 100  
 57 53.0 41.2 61.8



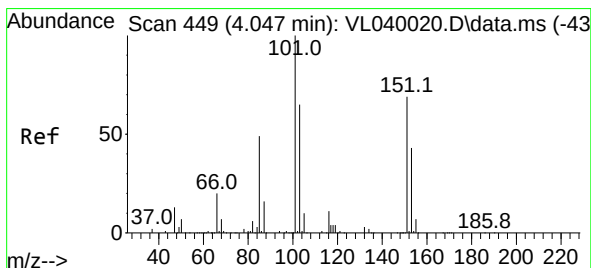
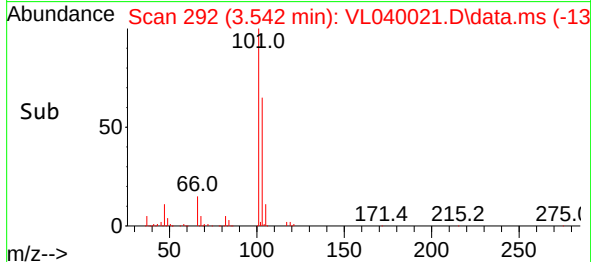
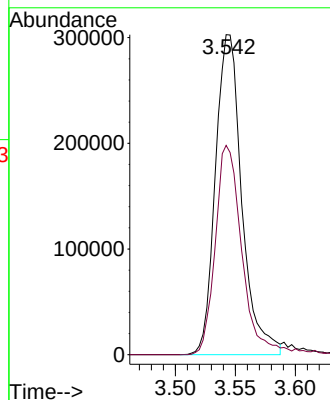
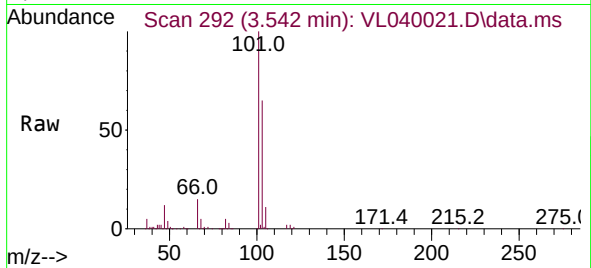




#11  
 Trichlorofluoromethane  
 Concen: 2.216 ppbv  
 RT: 3.542 min Scan# 292  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

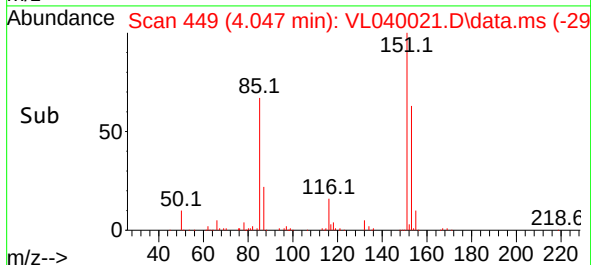
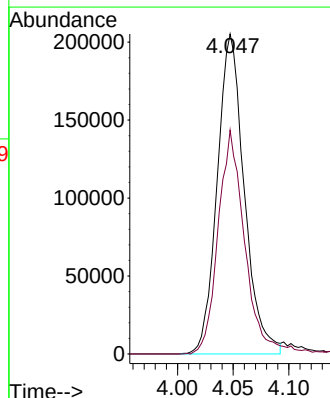
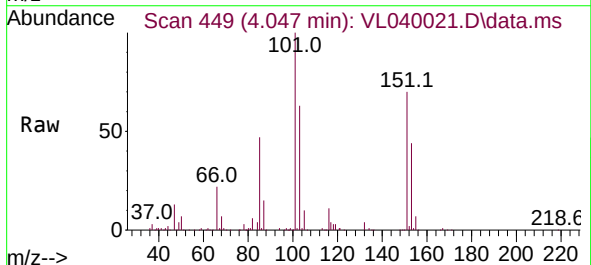
Instrument :  
 MSVOA\_L  
 ClientSampleId :

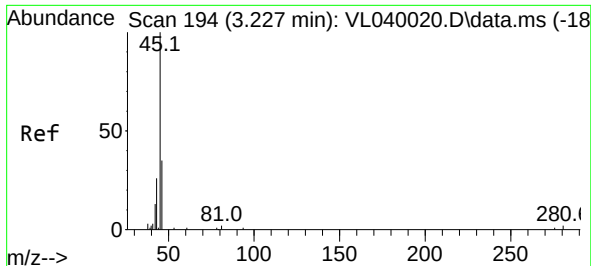
Tgt Ion:101 Resp: 463233  
 Ion Ratio Lower Upper  
 101 100  
 103 65.4 51.7 77.5



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 2.192 ppbv  
 RT: 4.047 min Scan# 449  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

Tgt Ion:101 Resp: 347043  
 Ion Ratio Lower Upper  
 101 100  
 151 69.7 55.0 82.4

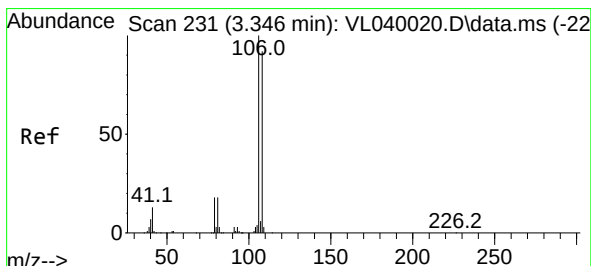
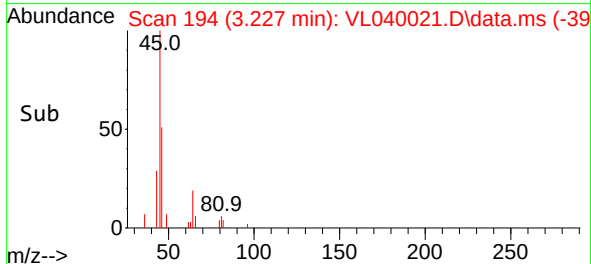
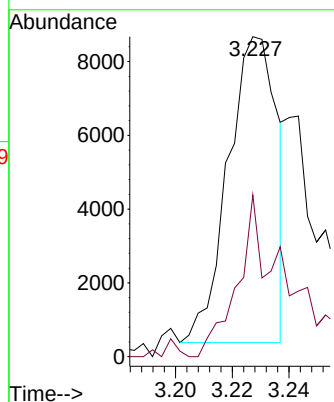
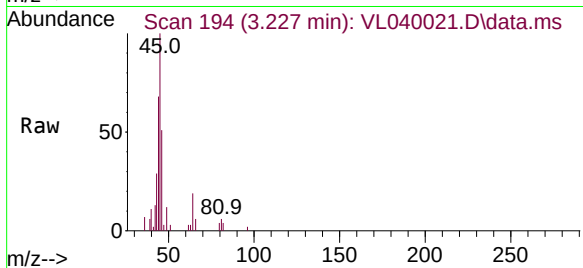




#13  
Ethanol  
Concen: 1.820 ppbv  
RT: 3.227 min Scan# 194  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

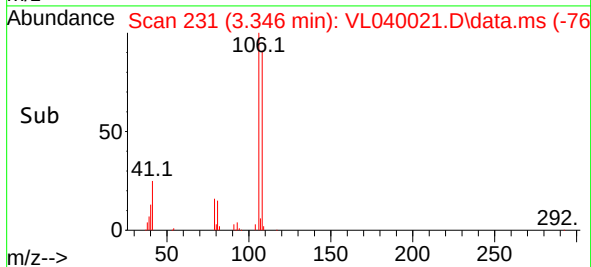
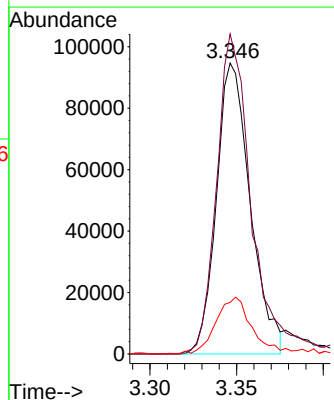
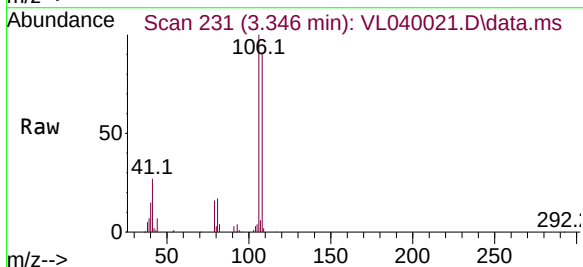
Instrument :  
MSVOA\_L  
ClientSampleId :

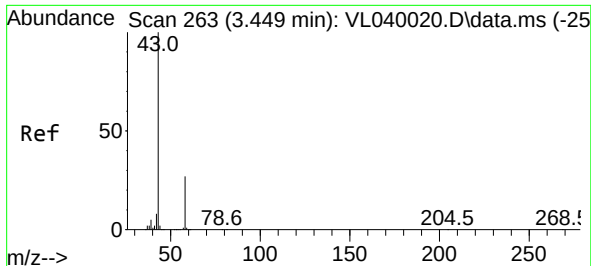
Tgt Ion: 45 Resp: 9893  
Ion Ratio Lower Upper  
45 100  
46 66.4 13.7 54.7#



#14  
Bromoethene  
Concen: 2.161 ppbv  
RT: 3.346 min Scan# 231  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 108 Resp: 128835  
Ion Ratio Lower Upper  
108 100  
106 115.8 87.5 131.3  
79 21.9 15.8 23.8

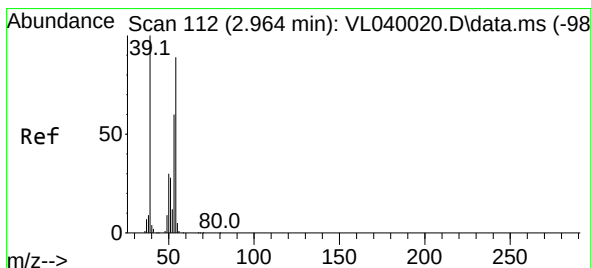
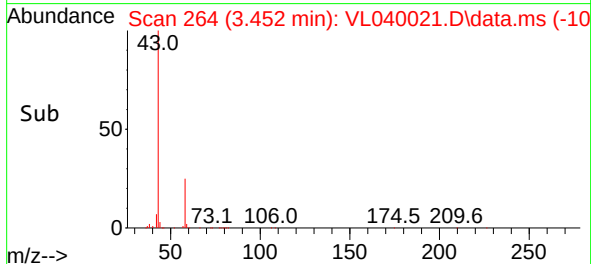
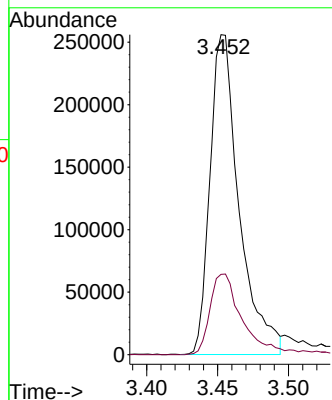
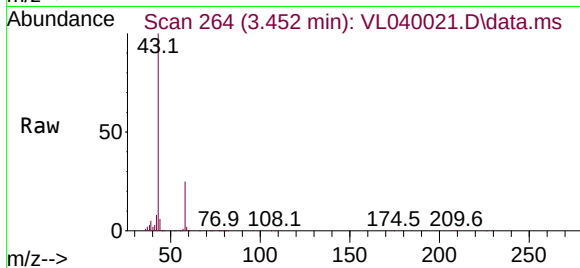




#15  
Acetone  
Concen: 2.302 ppbv  
RT: 3.452 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

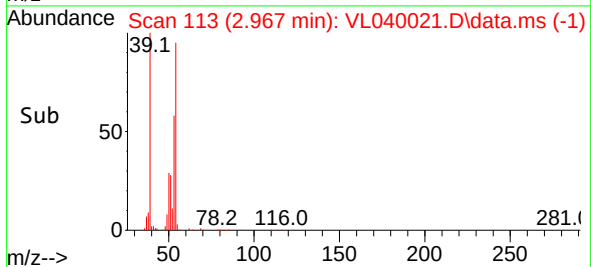
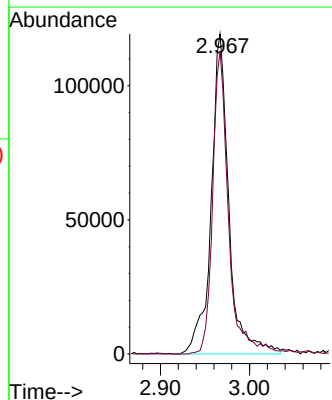
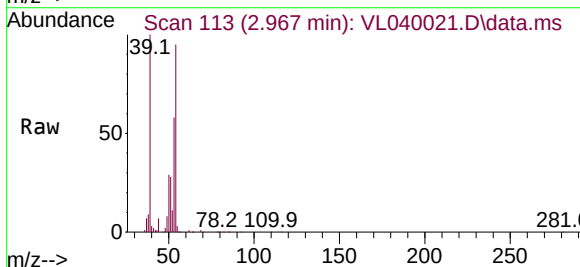
Instrument :  
MSVOA\_L  
ClientSampleId :

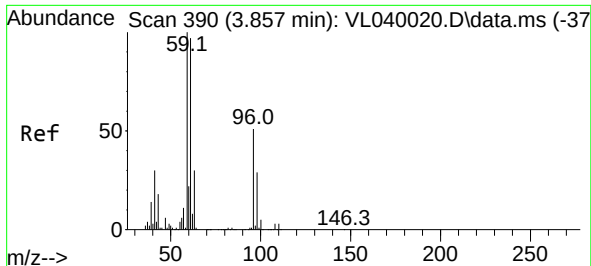
Tgt Ion: 43 Resp: 365958  
Ion Ratio Lower Upper  
43 100  
58 29.1 21.8 32.8



#16  
1,3-Butadiene  
Concen: 2.384 ppbv  
RT: 2.967 min Scan# 113  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 39 Resp: 164724  
Ion Ratio Lower Upper  
39 100  
54 85.7 68.3 102.5





#17

tert-Butyl alcohol

Concen: 2.136 ppbv

RT: 3.864 min Scan# 390

Delta R.T. 0.006 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

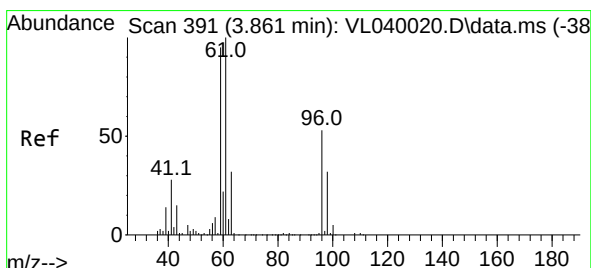
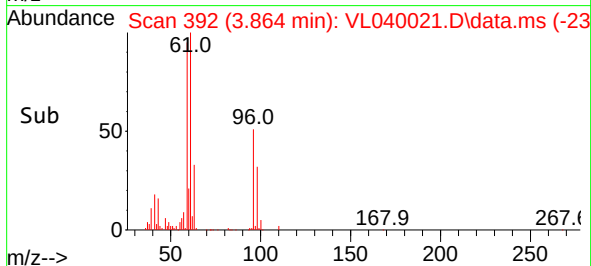
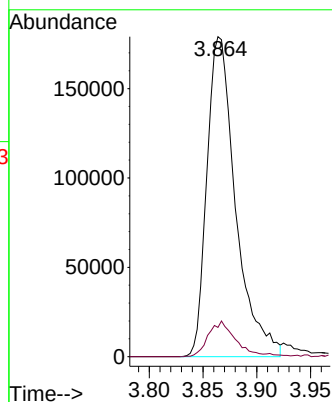
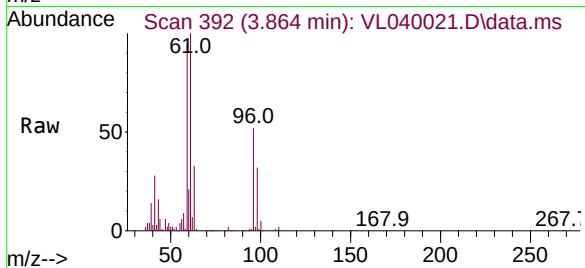
ClientSampleId :

Tgt Ion: 59 Resp: 332409

Ion Ratio Lower Upper

59 100

57 11.1 8.4 12.6



#18

1,1-Dichloroethene

Concen: 2.231 ppbv

RT: 3.861 min Scan# 391

Delta R.T. -0.000 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

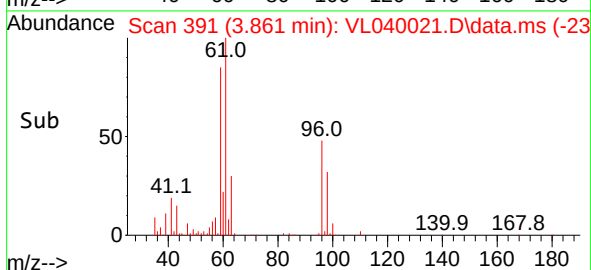
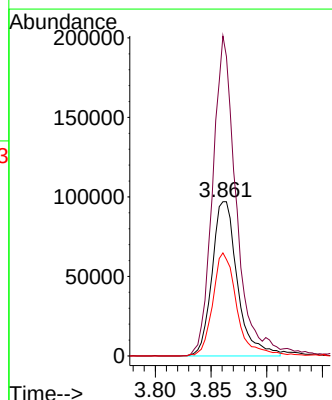
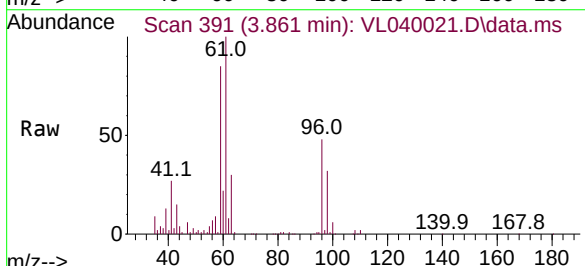
Tgt Ion: 96 Resp: 153707

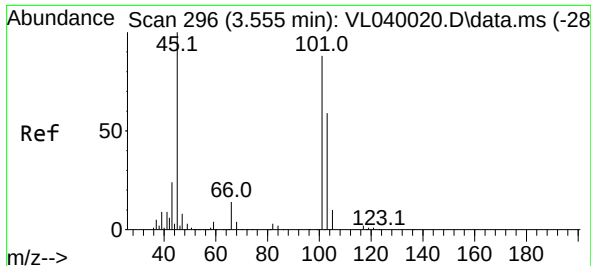
Ion Ratio Lower Upper

96 100

61 207.4 151.0 226.6

98 66.8 47.7 71.5





#19

Isopropyl Alcohol

Concen: 2.228 ppbv

RT: 3.565 min Scan# 296

Delta R.T. 0.010 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

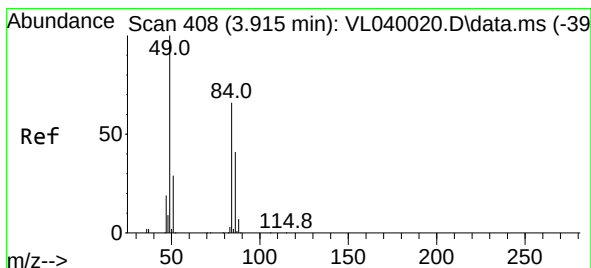
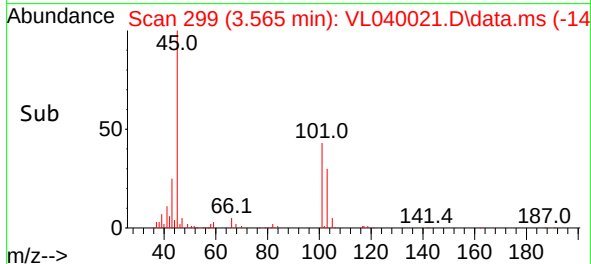
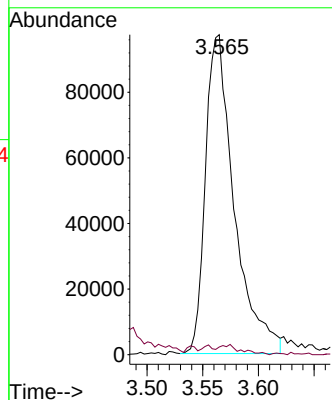
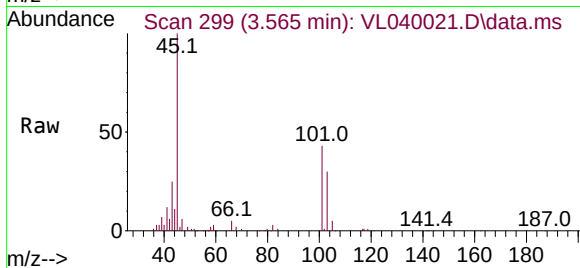
ClientSampleId :

Tgt Ion: 45 Resp: 174556

Ion Ratio Lower Upper

45 100

58 3.9 1.7 2.5#



#20

Methylene Chloride

Concen: 2.219 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.000 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Tgt Ion: 84 Resp: 149987

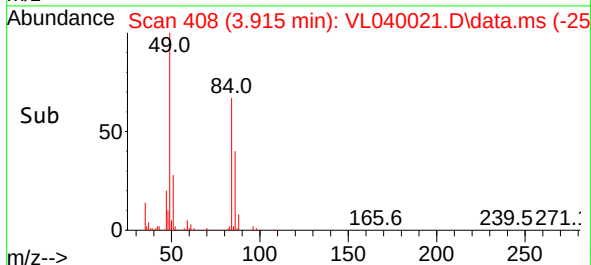
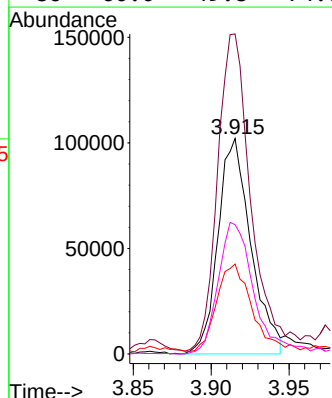
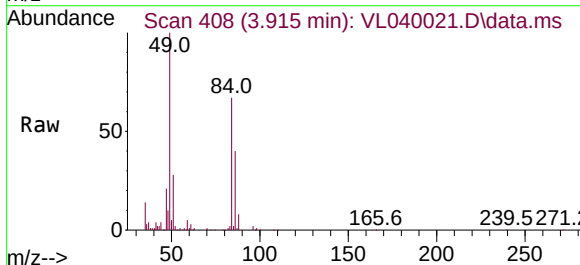
Ion Ratio Lower Upper

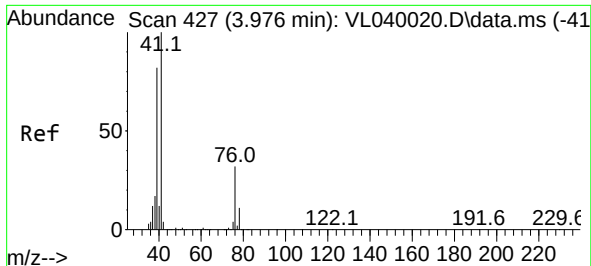
84 100

49 146.7 120.5 180.7

51 39.8 35.2 52.8

86 60.0 49.8 74.6

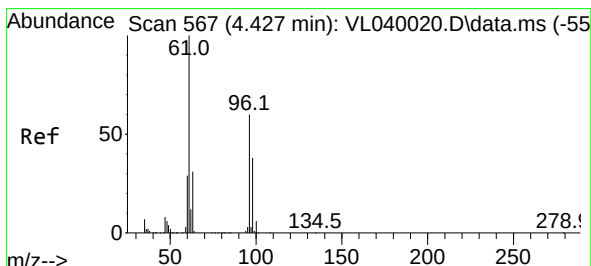
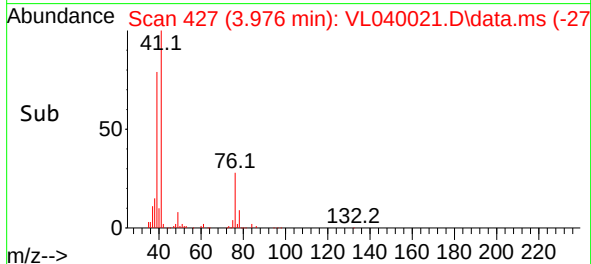
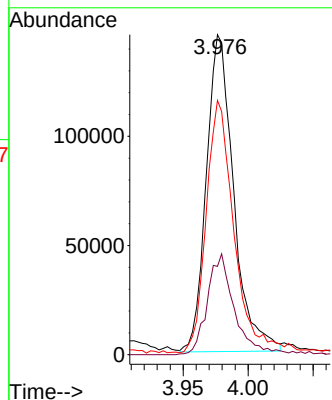
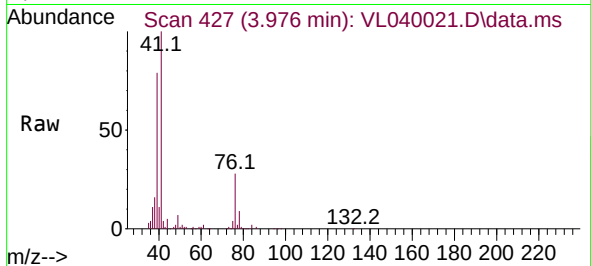




#21  
 Allyl Chloride  
 Concen: 2.223 ppbv  
 RT: 3.976 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

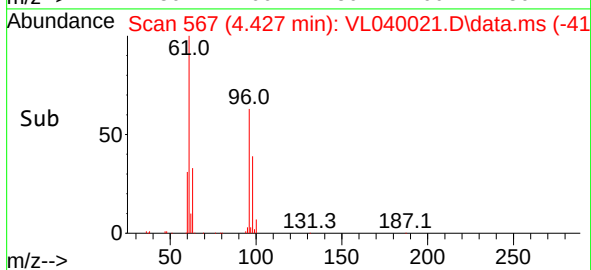
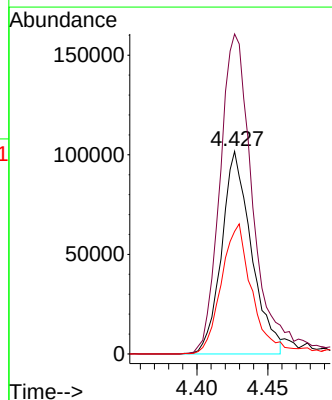
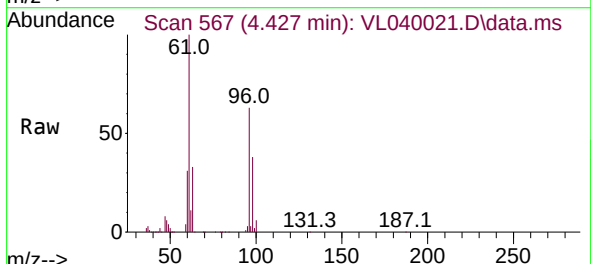
Instrument :  
 MSVOA\_L  
 ClientSampleId :

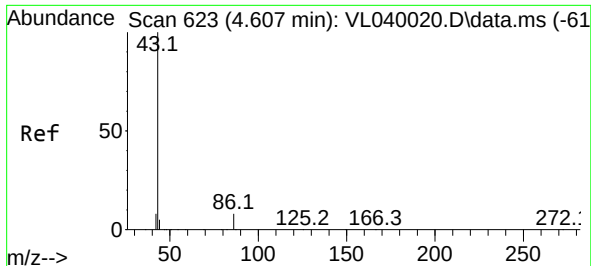
Tgt Ion: 41 Resp: 212385  
 Ion Ratio Lower Upper  
 41 100  
 76 32.0 25.9 38.9  
 39 84.0 66.0 99.0



#22  
 trans-1,2-Dichloroethene  
 Concen: 2.167 ppbv  
 RT: 4.427 min Scan# 567  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

Tgt Ion: 96 Resp: 148825  
 Ion Ratio Lower Upper  
 96 100  
 61 157.9 133.6 200.4  
 98 60.5 51.4 77.0

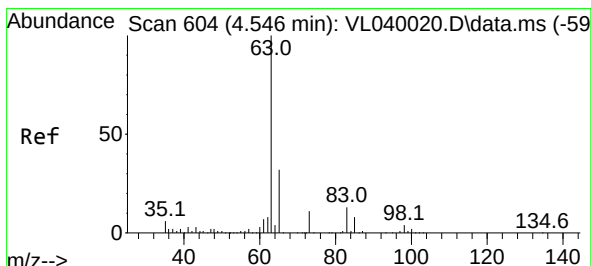
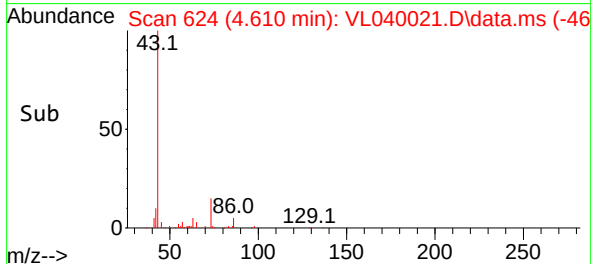
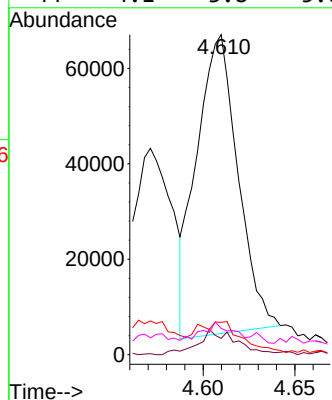
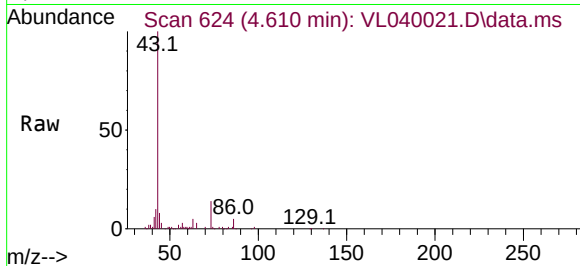




#23  
 Vinyl Acetate  
 Concen: 1.948 ppbv  
 RT: 4.610 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

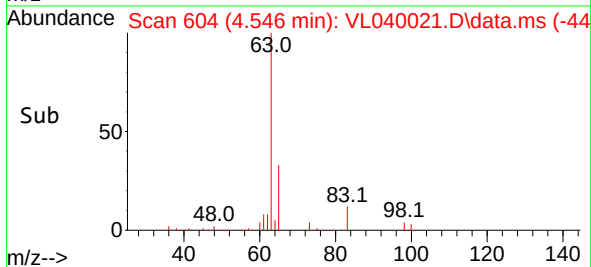
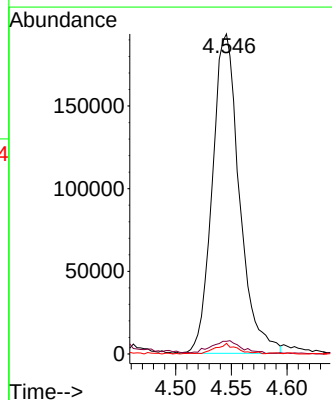
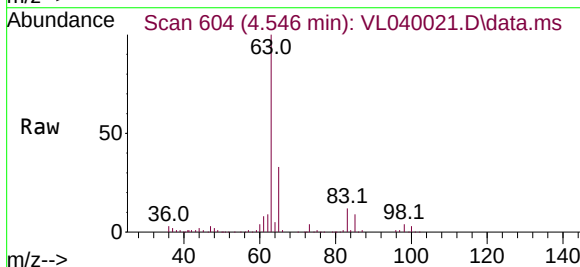
Instrument :  
 MSVOA\_1  
 ClientSampleId :

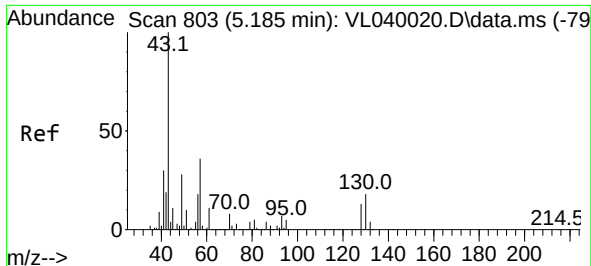
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 98194 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 4.8      | 5.3 7.9#    |
| 42 9.6      | 7.4 11.0    |
| 44 4.1      | 3.8 5.6     |



#24  
 1,1-Dichloroethane  
 Concen: 2.210 ppbv  
 RT: 4.546 min Scan# 604  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

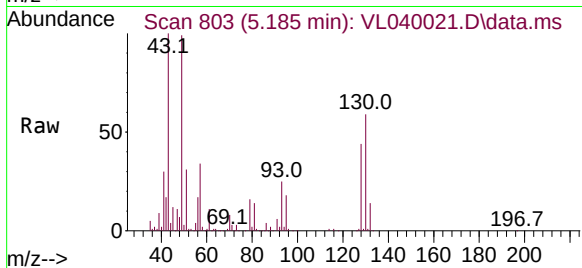
|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 327185 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 98 3.6      | 2.1 6.2      |
| 100 3.3     | 1.1 3.3      |





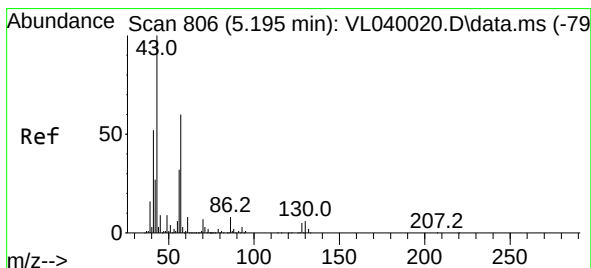
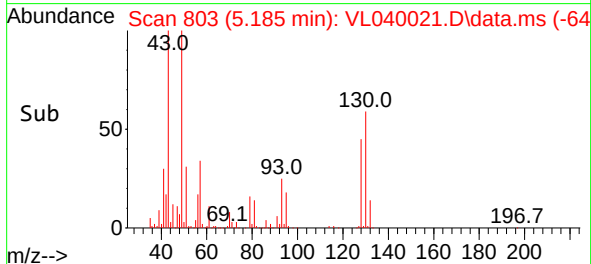
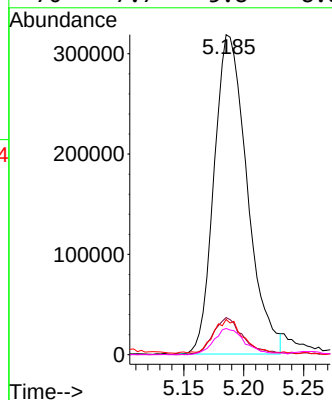
#25  
Ethyl Acetate  
Concen: 2.215 ppbv  
RT: 5.185 min Scan# 803  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 43 Resp: 609811

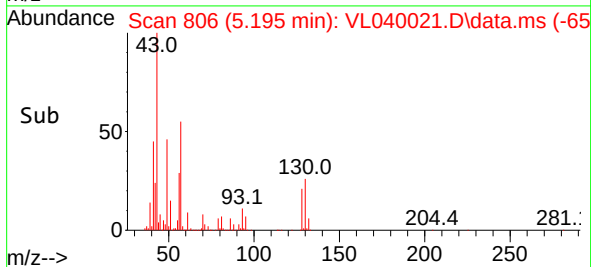
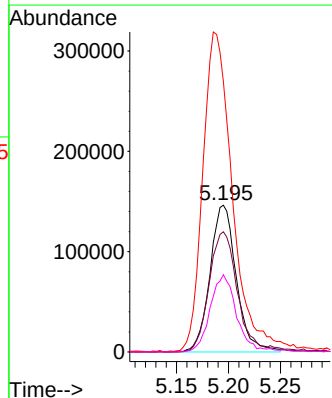
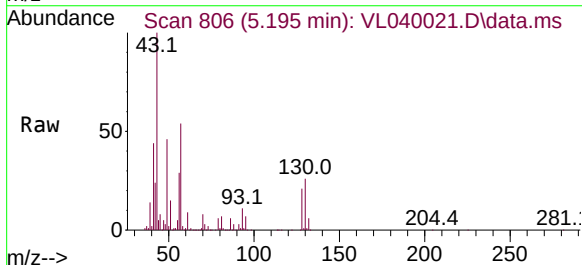
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.9  | 8.6   | 12.8  |
| 61  | 10.4  | 8.5   | 12.7  |
| 70  | 7.7   | 5.8   | 8.8   |



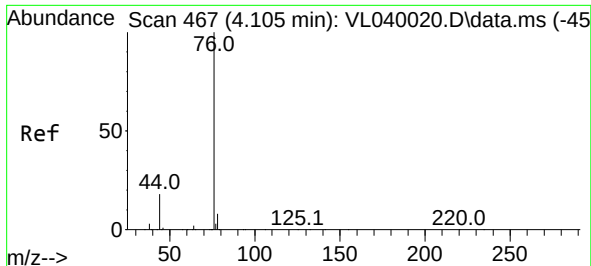
#26  
Hexane  
Concen: 2.227 ppbv  
RT: 5.195 min Scan# 806  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 57 Resp: 257657

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.7  | 72.1  | 108.1 |
| 43  | 249.7 | 192.1 | 288.1 |
| 56  | 53.8  | 42.5  | 63.7  |







#27

Carbon Disulfide

Concen: 2.236 ppbv

RT: 4.108 min Scan# 4

Delta R.T. 0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :

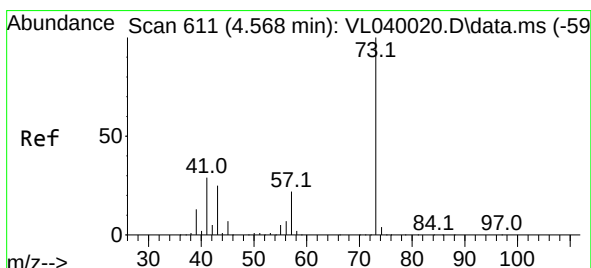
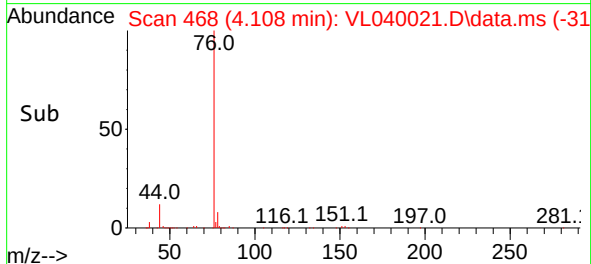
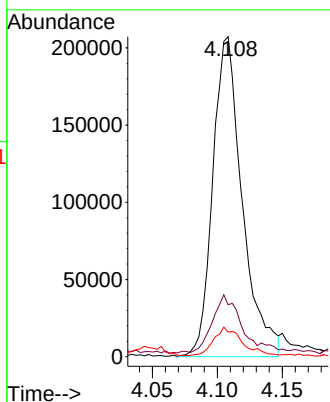
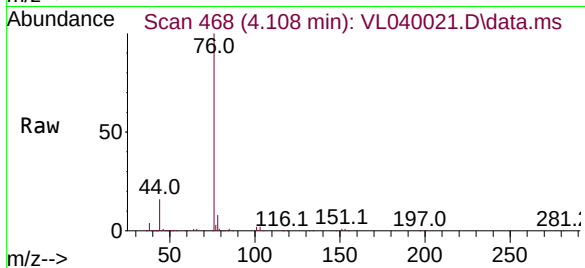
Tgt Ion: 76 Resp: 326420

Ion Ratio Lower Upper

76 100

44 18.8 15.3 22.9

78 10.6 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 2.232 ppbv

RT: 4.571 min Scan# 612

Delta R.T. 0.003 min

Lab File: VL040021.D

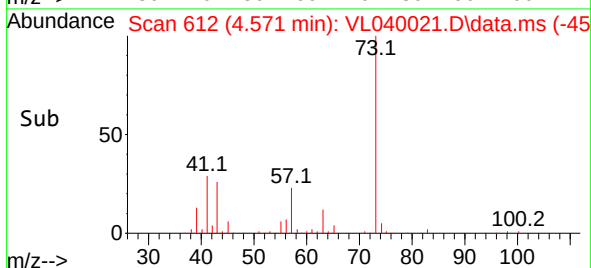
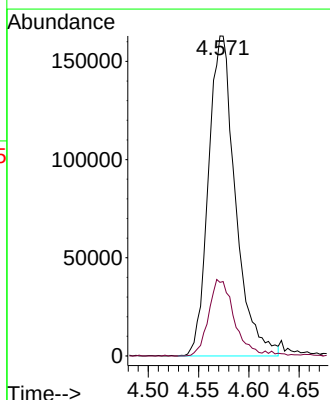
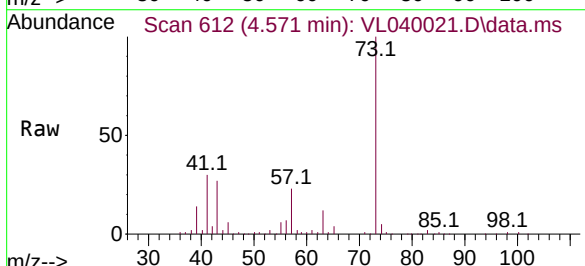
Acq: 19 Dec 2022 10:16

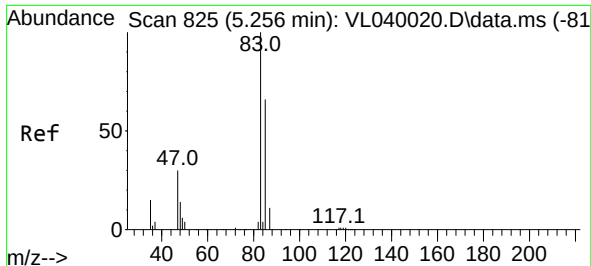
Tgt Ion: 73 Resp: 304359

Ion Ratio Lower Upper

73 100

57 23.4 18.6 28.0





#29

Chloroform

Concen: 2.155 ppbv

RT: 5.256 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

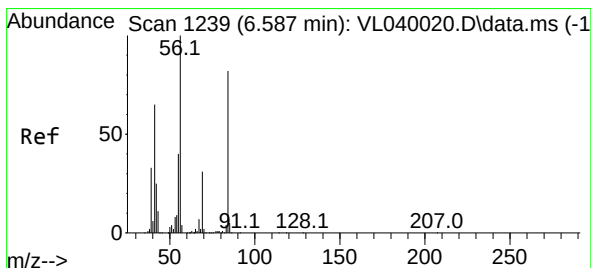
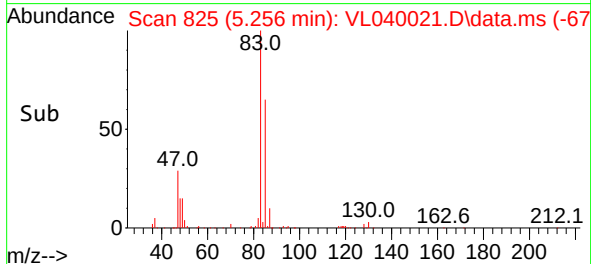
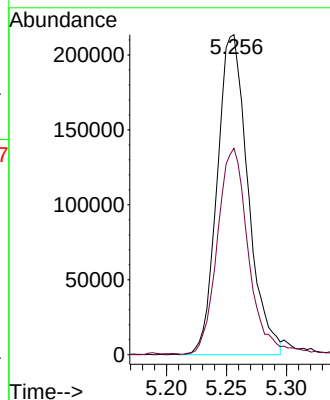
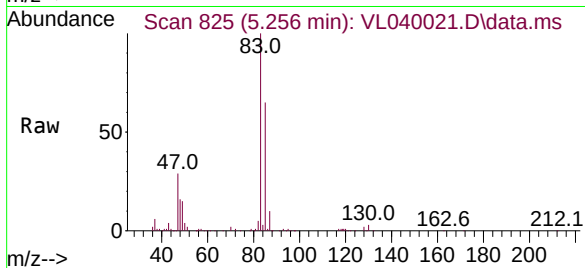
ClientSampleId :

Tgt Ion: 83 Resp: 380604

Ion Ratio Lower Upper

83 100

85 64.3 52.4 78.6



#30

Cyclohexane

Concen: 2.270 ppbv

RT: 6.584 min Scan# 1238

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

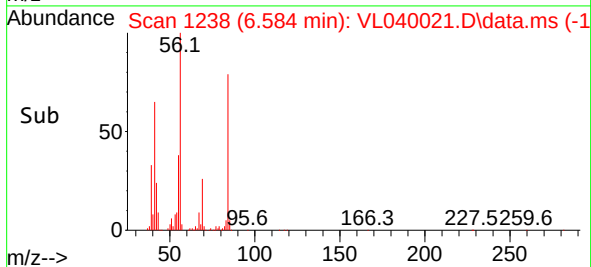
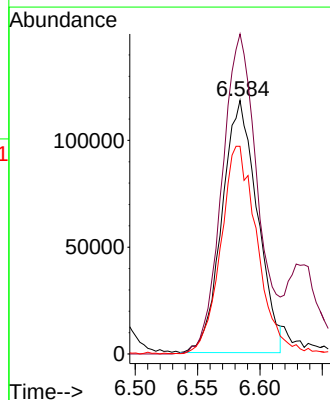
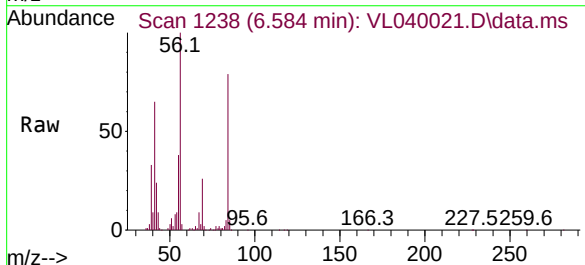
Tgt Ion: 84 Resp: 232628

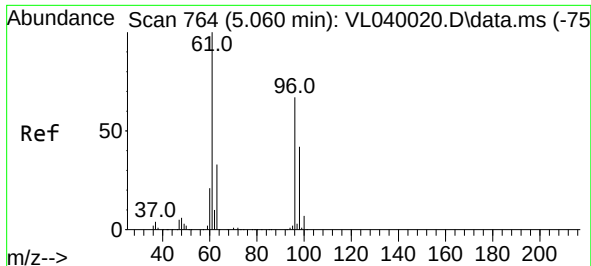
Ion Ratio Lower Upper

84 100

56 128.0 110.2 165.4

41 86.2 67.8 101.8

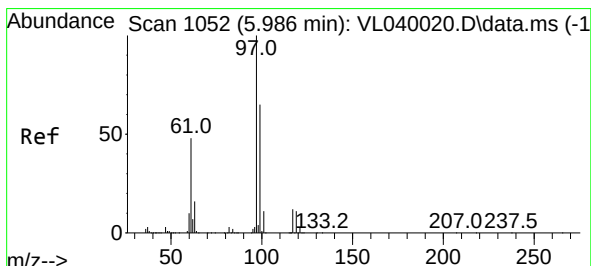
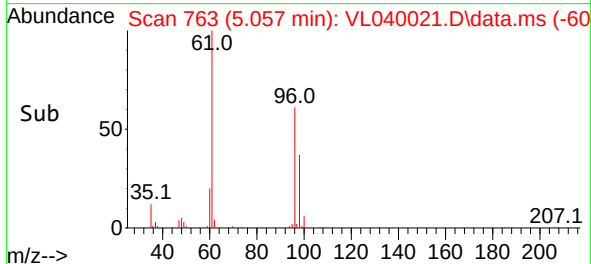
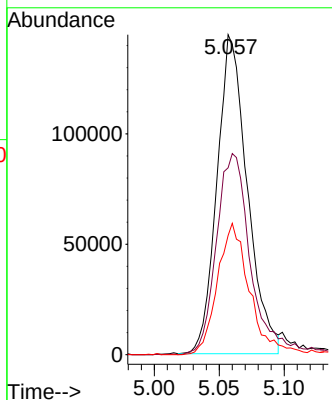
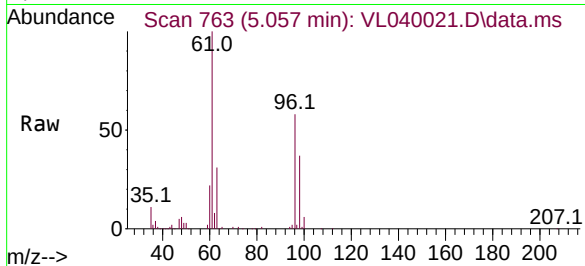




#31  
 cis-1,2-Dichloroethene  
 Concen: 2.128 ppbv  
 RT: 5.057 min Scan# 763  
 Delta R.T. -0.003 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

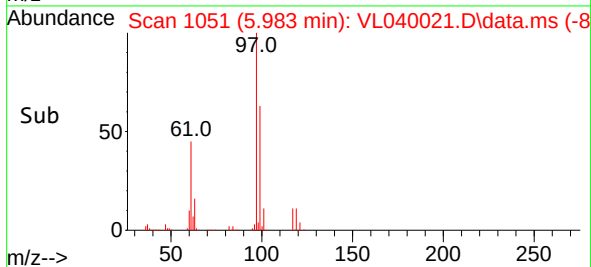
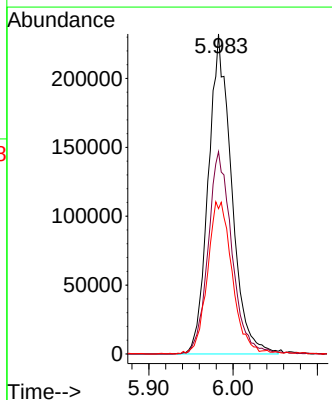
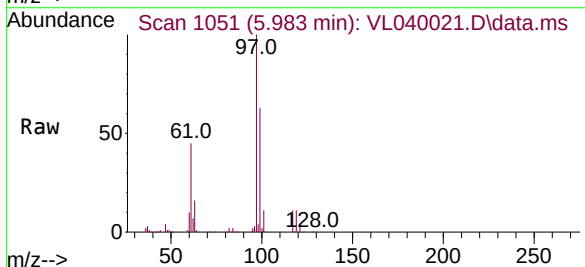
Instrument :  
 MSVOA\_L  
 ClientSampleId :

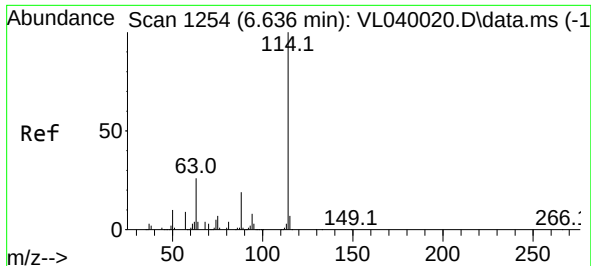
Tgt Ion: 61 Resp: 234515  
 Ion Ratio Lower Upper  
 61 100  
 96 58.6 53.4 80.2  
 98 37.4 33.4 50.0



#32  
 1,1,1-Trichloroethane  
 Concen: 2.350 ppbv  
 RT: 5.983 min Scan# 1051  
 Delta R.T. -0.003 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

Tgt Ion: 97 Resp: 445704  
 Ion Ratio Lower Upper  
 97 100  
 99 64.8 51.8 77.6  
 61 51.3 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 114

Delta R.T. -0.000 min

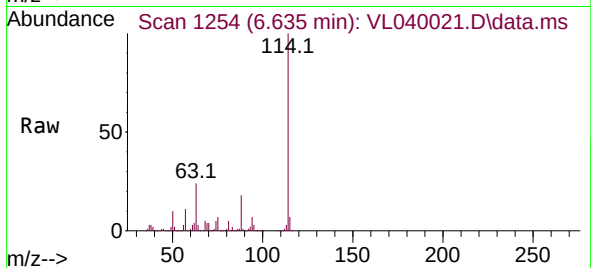
Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :



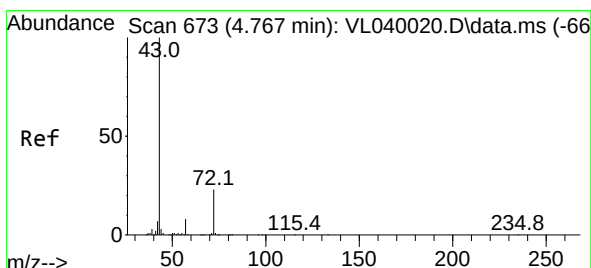
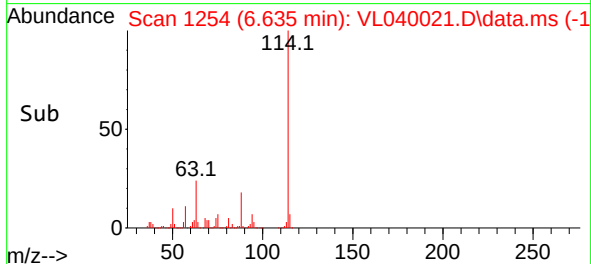
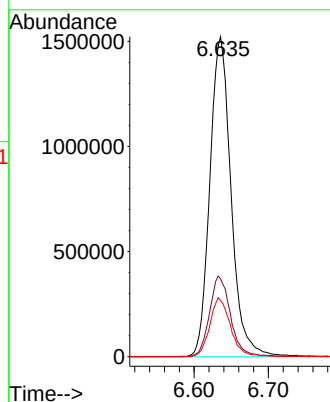
Tgt Ion:114 Resp: 3010312

Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.2

88 18.1 14.6 21.8



#34

2-Butanone

Concen: 2.308 ppbv

RT: 4.771 min Scan# 674

Delta R.T. 0.003 min

Lab File: VL040021.D

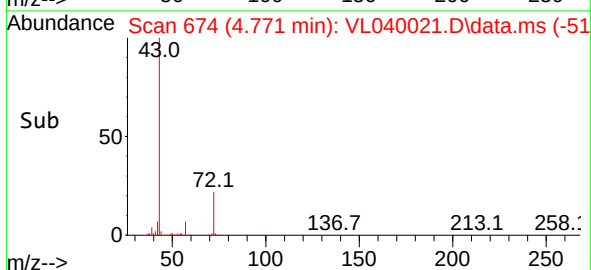
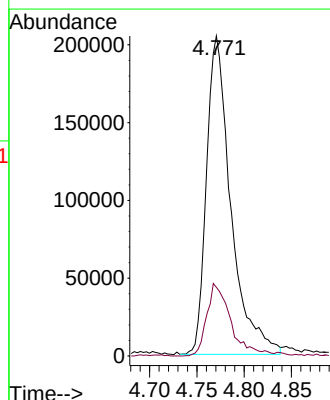
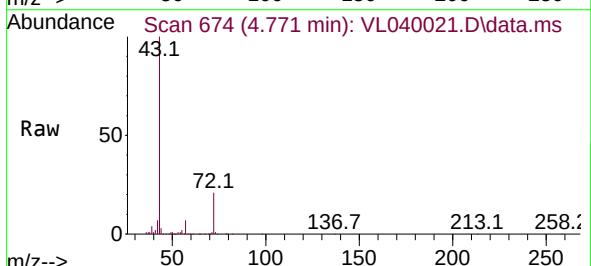
Acq: 19 Dec 2022 10:16

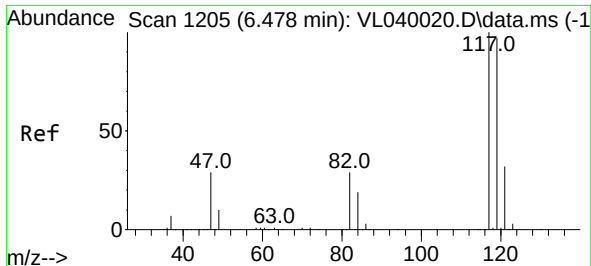
Tgt Ion: 43 Resp: 366782

Ion Ratio Lower Upper

43 100

72 23.4 18.0 27.0

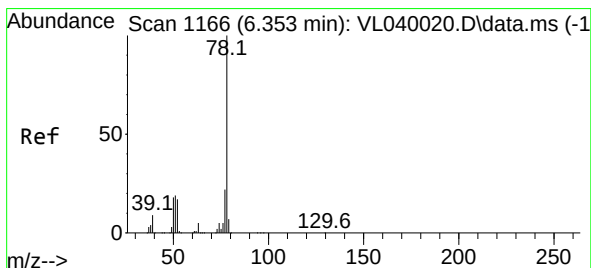
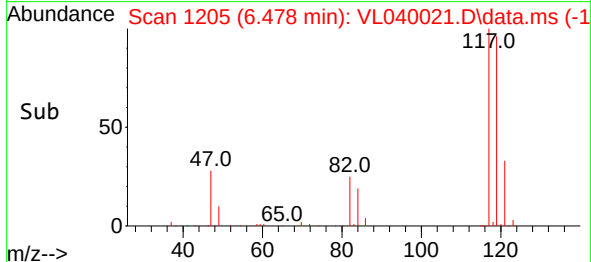
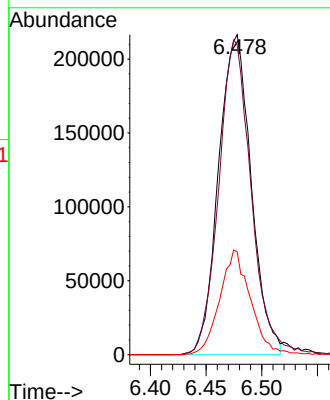
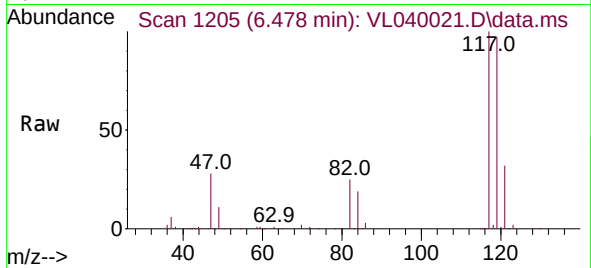




#35  
Carbon Tetrachloride  
Concen: 2.359 ppbv  
RT: 6.478 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

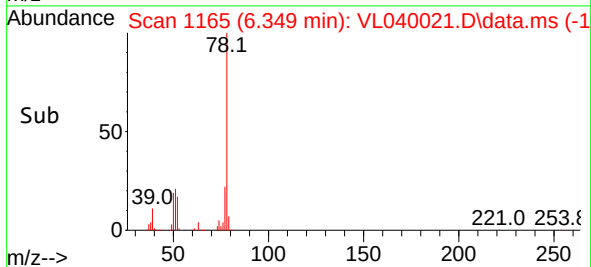
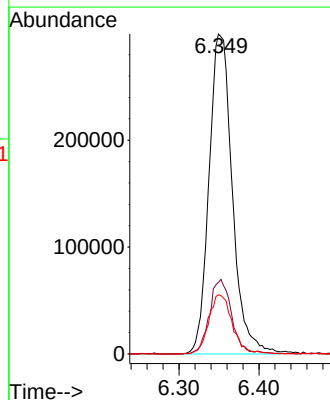
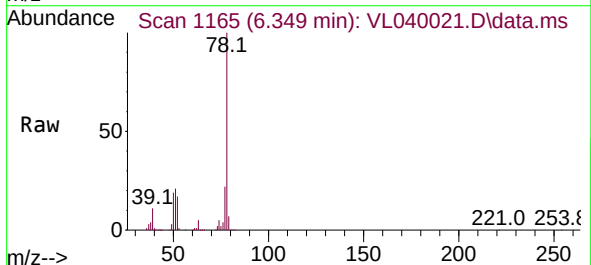
Instrument :  
MSVOA\_L  
ClientSampleId :

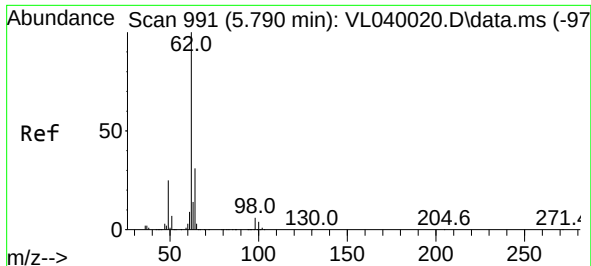
Tgt Ion:117 Resp: 441703  
Ion Ratio Lower Upper  
117 100  
119 96.9 77.3 115.9  
121 32.2 25.4 38.0



#36  
Benzene  
Concen: 2.257 ppbv  
RT: 6.349 min Scan# 1165  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 78 Resp: 606672  
Ion Ratio Lower Upper  
78 100  
77 22.3 17.5 26.3  
50 18.5 14.2 21.2





#37

1,2-Dichloroethane

Concen: 2.273 ppbv

RT: 5.787 min Scan# 991

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

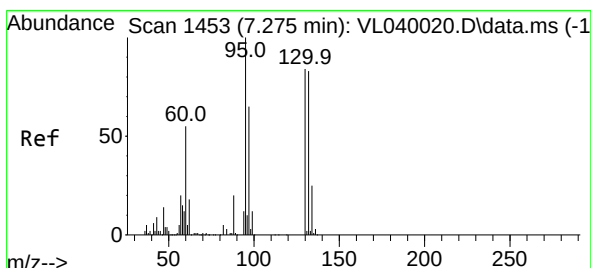
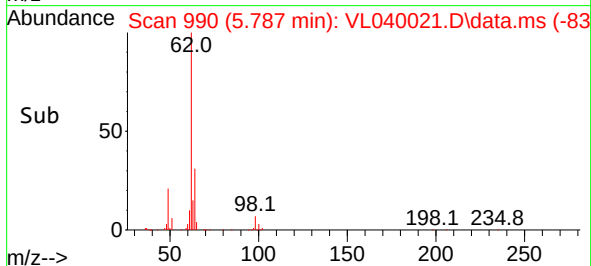
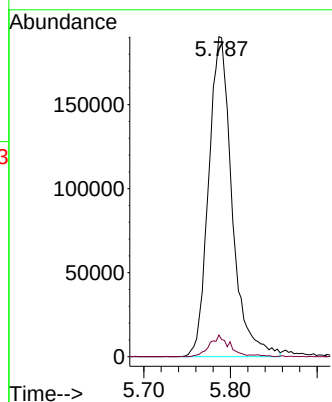
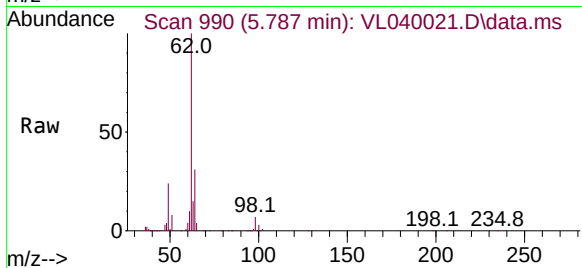
ClientSampleId :

Tgt Ion: 62 Resp: 358418

Ion Ratio Lower Upper

62 100

98 6.1 5.1 7.7



#38

Trichloroethene

Concen: 2.371 ppbv

RT: 7.275 min Scan# 1453

Delta R.T. -0.000 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Tgt Ion:130 Resp: 329383

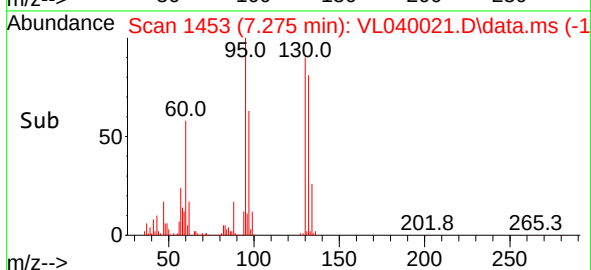
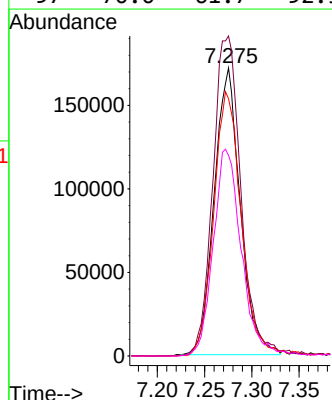
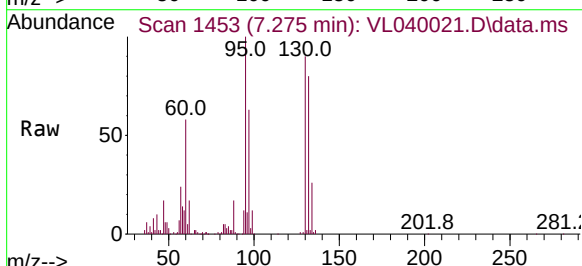
Ion Ratio Lower Upper

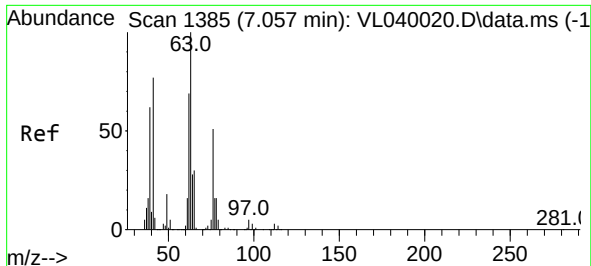
130 100

95 111.4 94.8 142.2

132 89.5 78.2 117.4

97 70.0 61.7 92.5





#39

1,2-Dichloropropane

Concen: 2.247 ppbv

RT: 7.053 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :

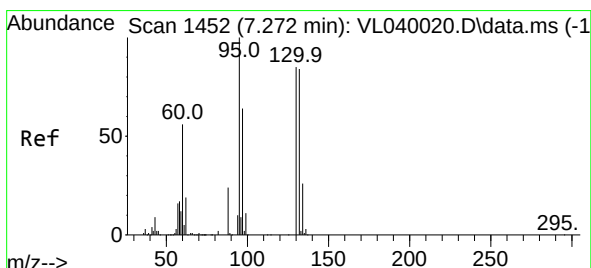
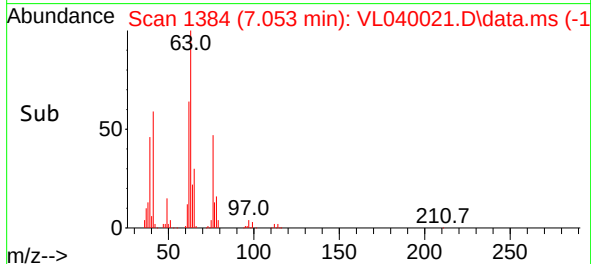
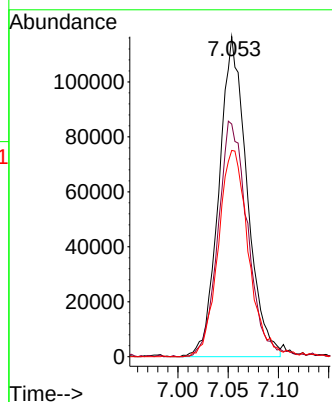
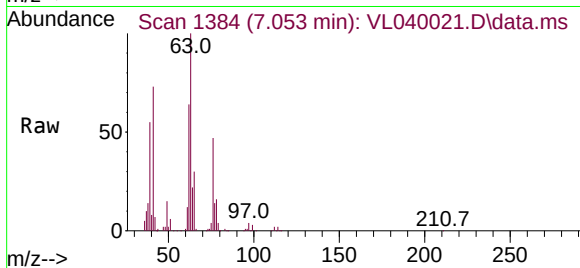
Tgt Ion: 63 Resp: 226397

Ion Ratio Lower Upper

63 100

41 72.7 61.4 92.0

62 64.4 55.4 83.2



#40

1,4-Dioxane

Concen: 1.595 ppbv

RT: 7.282 min Scan# 1455

Delta R.T. 0.010 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Tgt Ion: 88 Resp: 72878

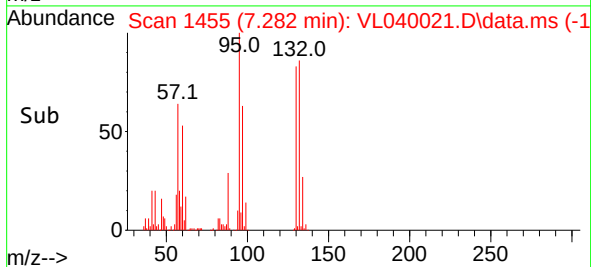
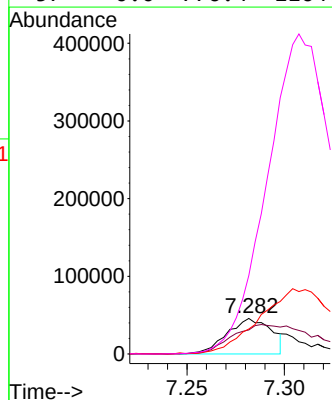
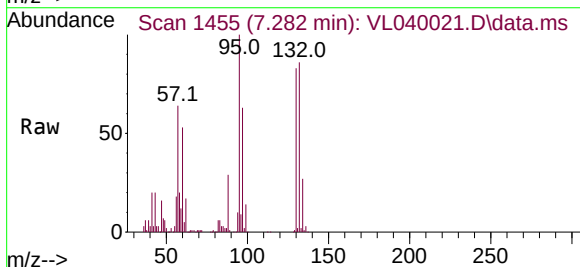
Ion Ratio Lower Upper

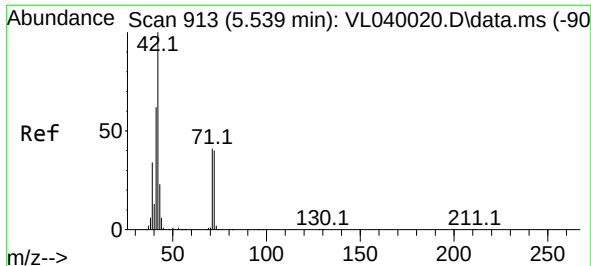
88 100

58 161.1 92.7 139.1#

43 0.0 174.6 261.8#

57 0.0 776.4 1164.6#





#41

Tetrahydrofuran

Concen: 1.077 ppbv

RT: 5.545 min Scan# 913

Delta R.T. 0.006 min

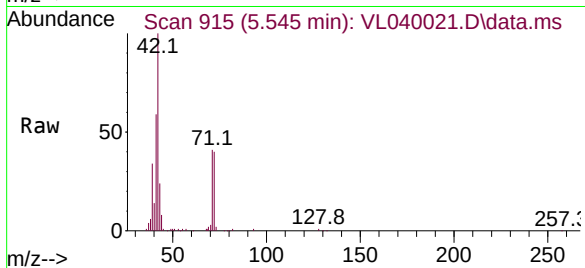
Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

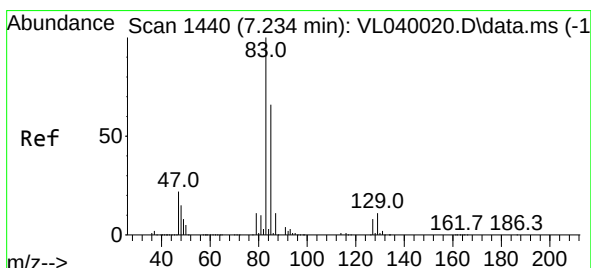
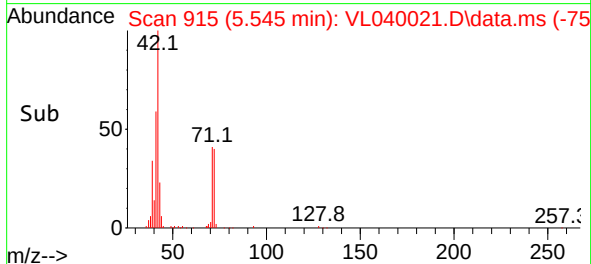
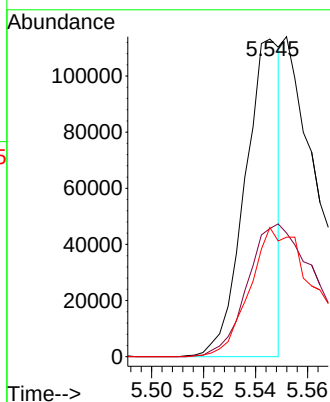
Instrument :

MSVOA\_L

ClientSampleId :



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 106267 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 72        | 0.0   | 32.9  | 49.3#  |
| 71        | 83.4  | 32.2  | 48.2#  |



#42

Bromodichloromethane

Concen: 2.251 ppbv

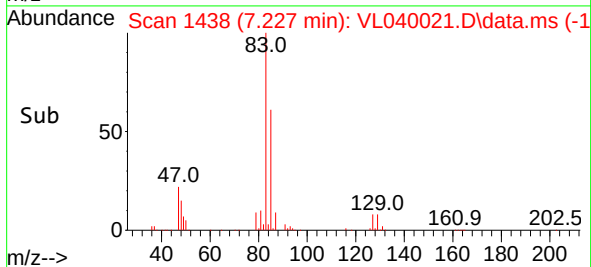
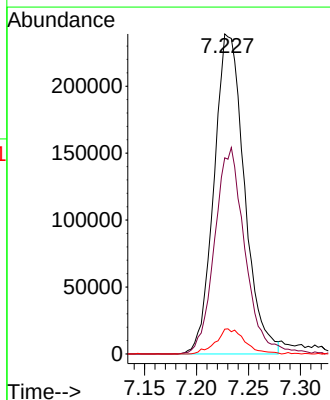
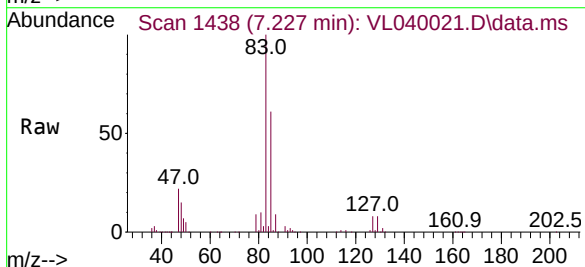
RT: 7.227 min Scan# 1438

Delta R.T. -0.006 min

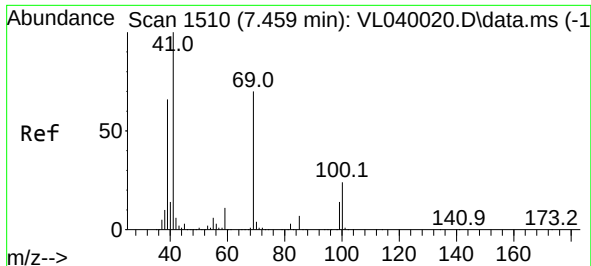
Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 485434 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 61.3  | 53.0  | 79.6   |
| 127       | 7.8   | 6.2   | 9.2    |



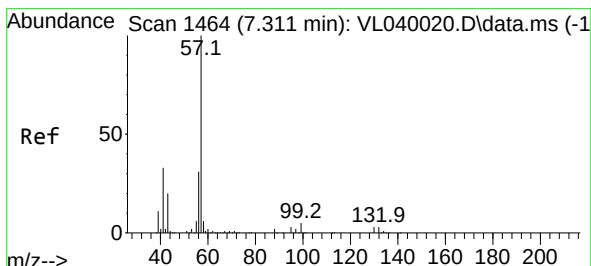
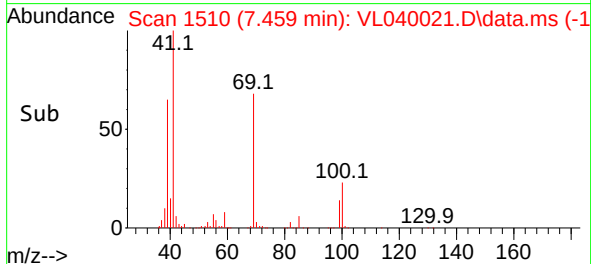
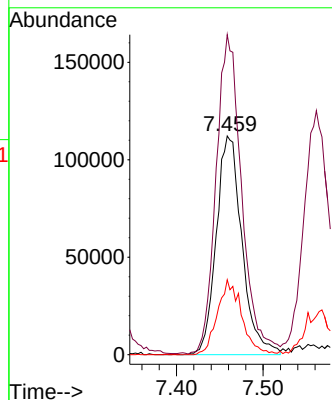
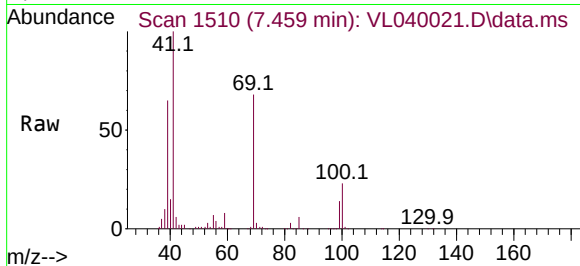




#43  
Methyl Methacrylate  
Concen: 2.295 ppbv  
RT: 7.459 min Scan# 1510  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

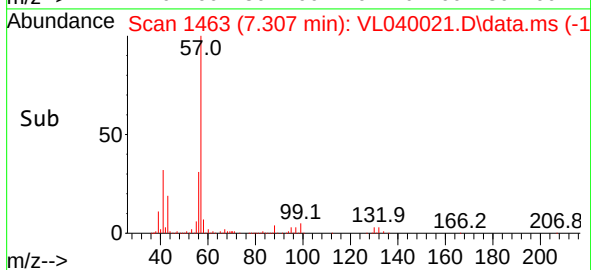
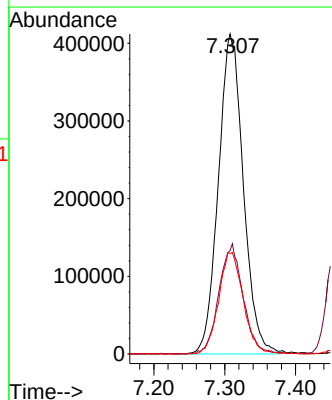
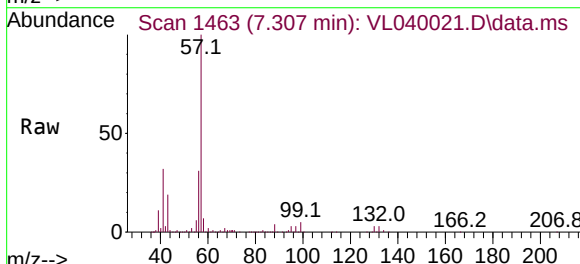
Instrument :  
MSVOA\_L  
ClientSampleId :

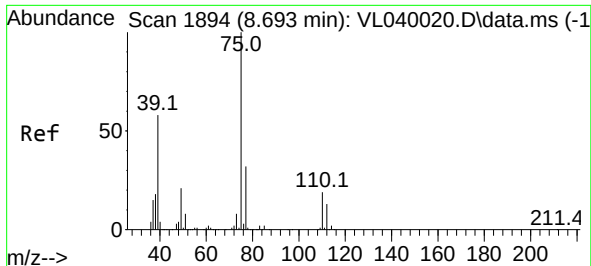
Tgt Ion: 69 Resp: 231534  
Ion Ratio Lower Upper  
69 100  
41 144.6 115.7 173.5  
100 32.3 26.0 39.0



#44  
2,2,4-Trimethylpentane  
Concen: 2.277 ppbv  
RT: 7.307 min Scan# 1463  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 57 Resp: 1007975  
Ion Ratio Lower Upper  
57 100  
41 33.3 26.2 39.4  
56 31.4 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 2.165 ppbv

RT: 8.690 min Scan# 1894

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

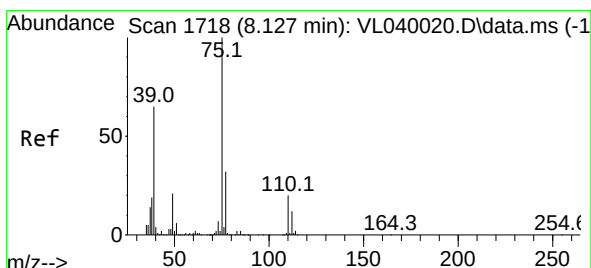
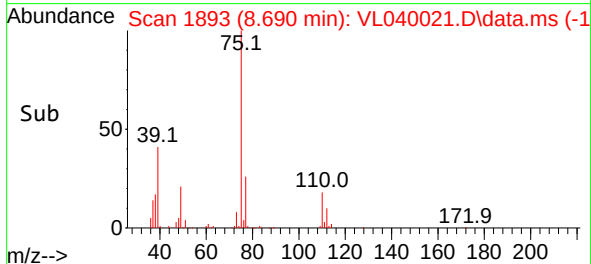
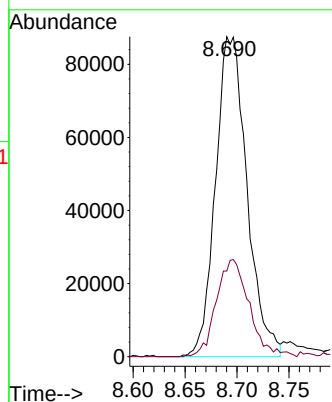
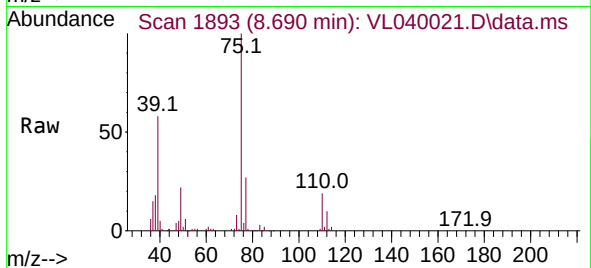
ClientSampleId :

Tgt Ion: 75 Resp: 184612

Ion Ratio Lower Upper

75 100

77 26.8 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 2.250 ppbv

RT: 8.127 min Scan# 1718

Delta R.T. -0.000 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

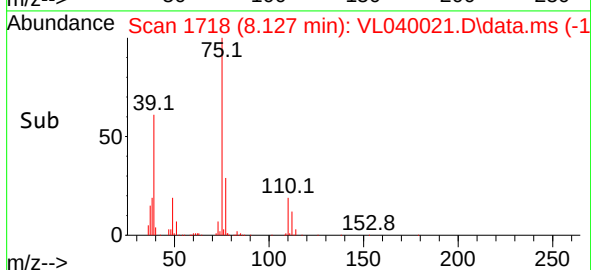
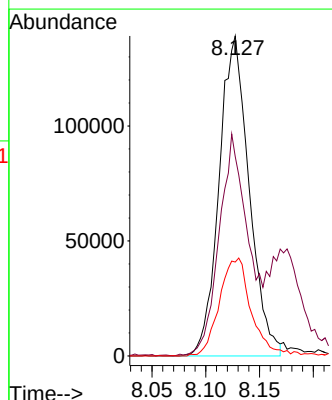
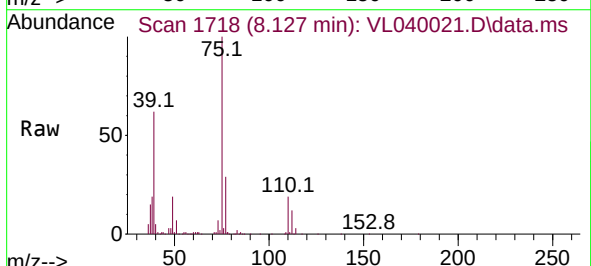
Tgt Ion: 75 Resp: 270584

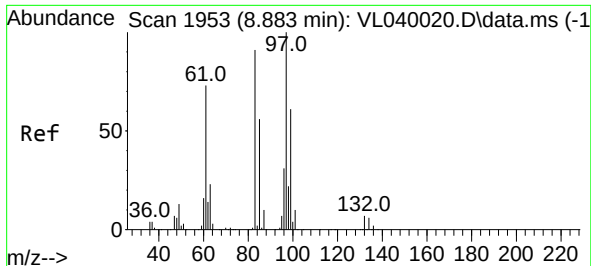
Ion Ratio Lower Upper

75 100

39 61.7 51.7 77.5

77 29.4 25.2 37.8





#47

1,1,2-Trichloroethane

Concen: 2.262 ppbv

RT: 8.880 min Scan# 1953

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion: 97 Resp: 249427

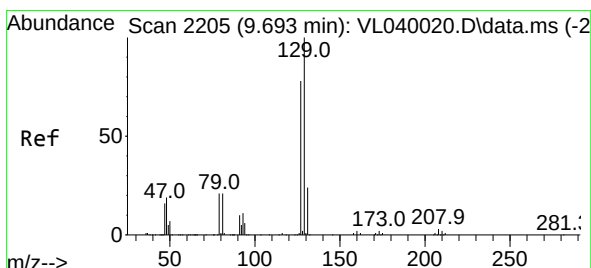
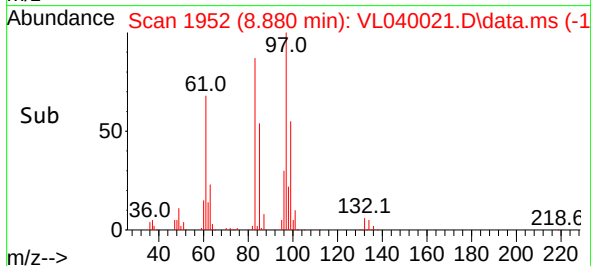
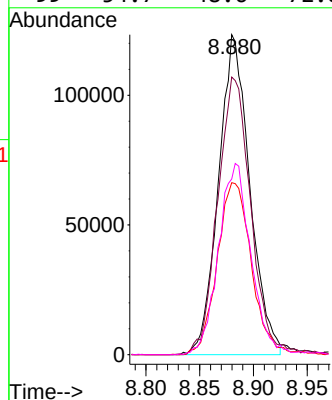
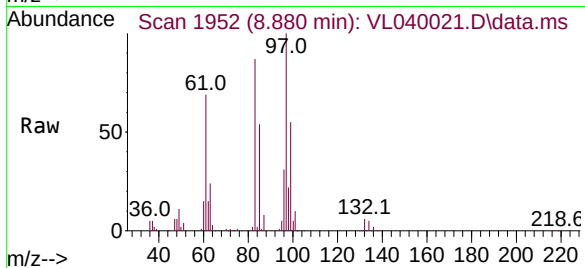
Ion Ratio Lower Upper

97 100

83 86.5 72.5 108.7

85 53.7 45.0 67.6

99 54.7 48.6 72.8



#48

Dibromochloromethane

Concen: 2.262 ppbv

RT: 9.693 min Scan# 2205

Delta R.T. -0.000 min

Lab File: VL040021.D

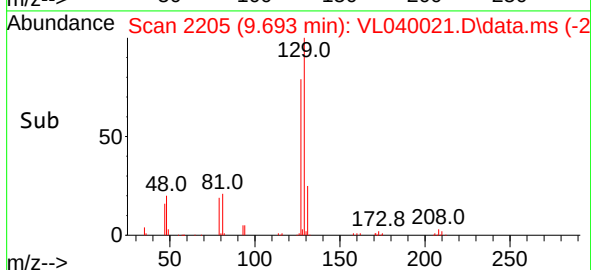
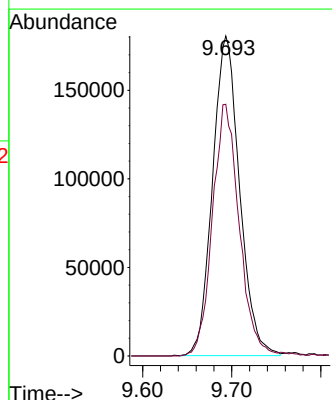
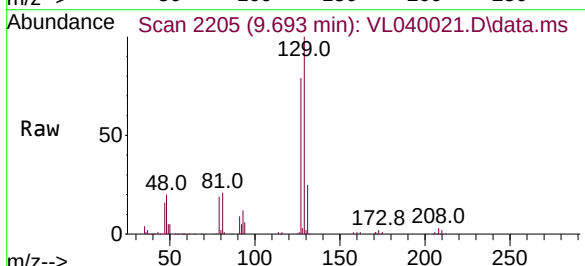
Acq: 19 Dec 2022 10:16

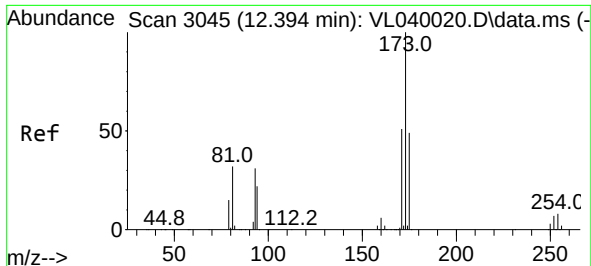
Tgt Ion: 129 Resp: 380104

Ion Ratio Lower Upper

129 100

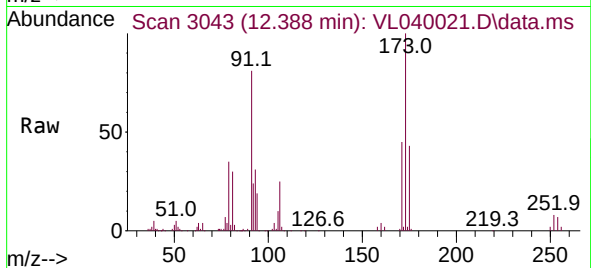
127 78.4 39.4 118.1



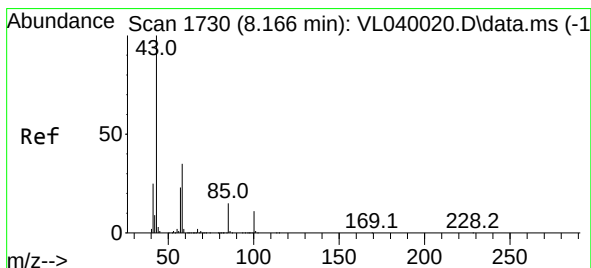
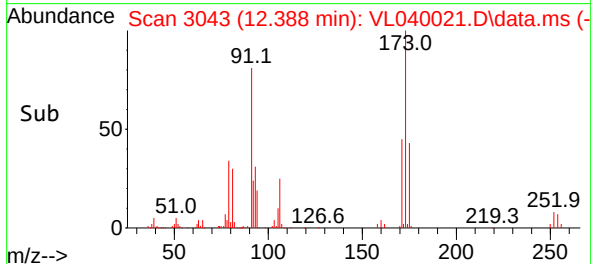
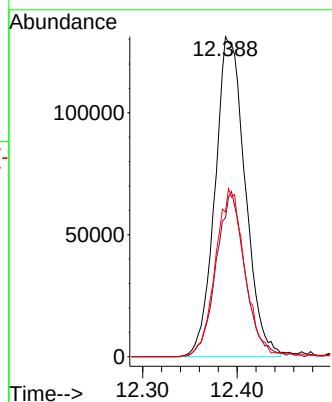


#49  
Bromoform  
Concen: 2.267 ppbv  
RT: 12.388 min Scan# 3045  
Delta R.T. -0.006 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :

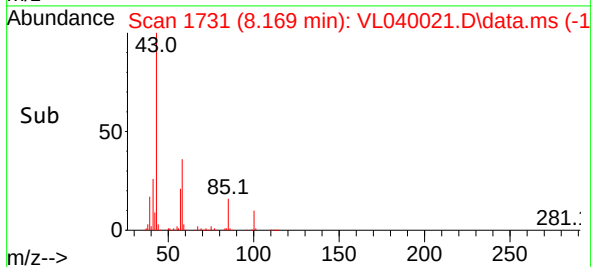
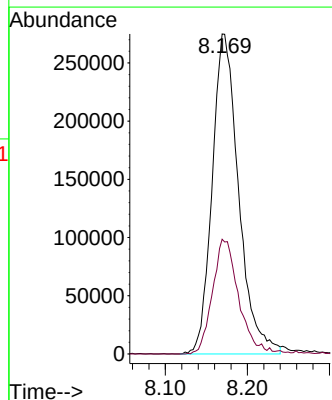
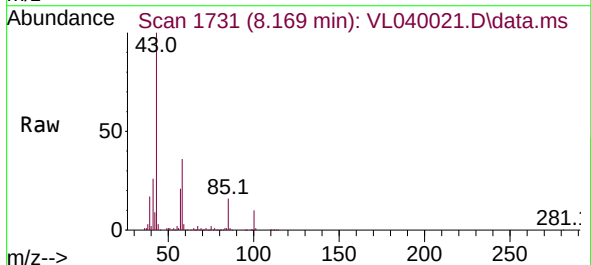


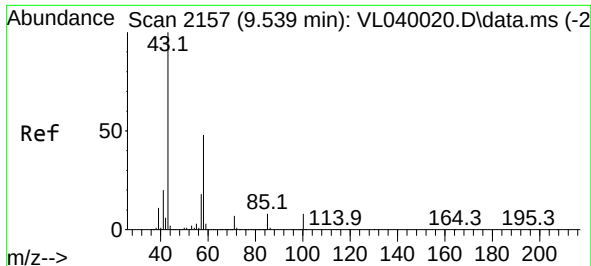
Tgt Ion:173 Resp: 290184  
Ion Ratio Lower Upper  
173 100  
175 49.6 39.0 58.4  
171 51.8 42.0 63.0



#50  
4-Methyl-2-Pentanone  
Concen: 2.312 ppbv  
RT: 8.169 min Scan# 1731  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 43 Resp: 616955  
Ion Ratio Lower Upper  
43 100  
58 35.9 29.0 43.4

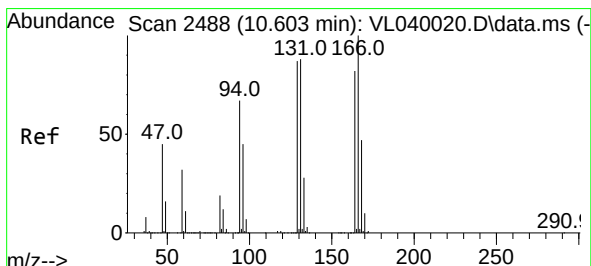
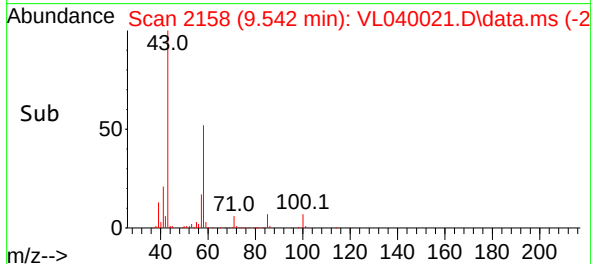
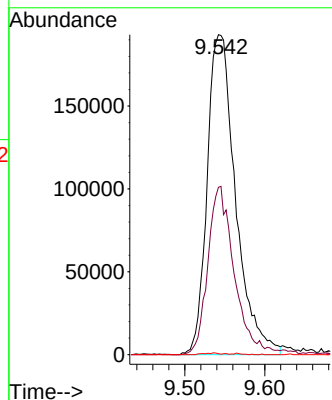
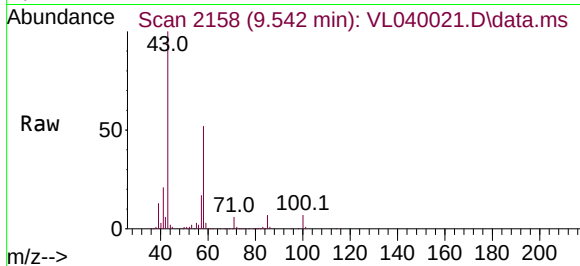




#51  
2-Hexanone  
Concen: 2.310 ppbv  
RT: 9.542 min Scan# 2157  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

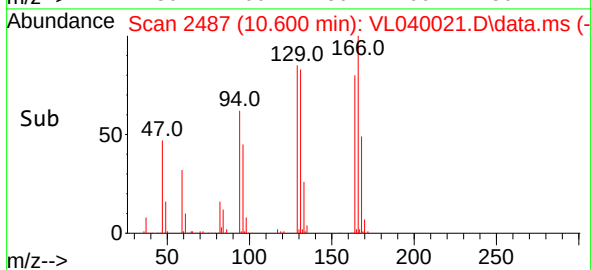
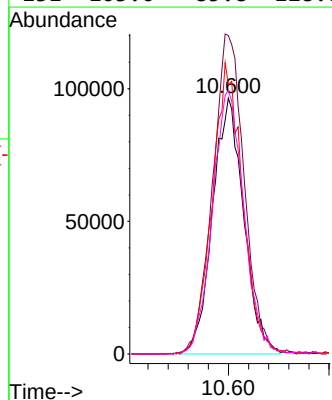
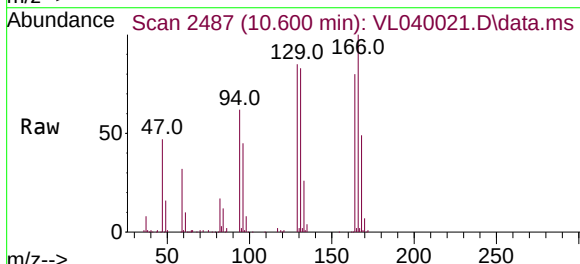
Instrument :  
MSVOA\_L  
ClientSampleId :

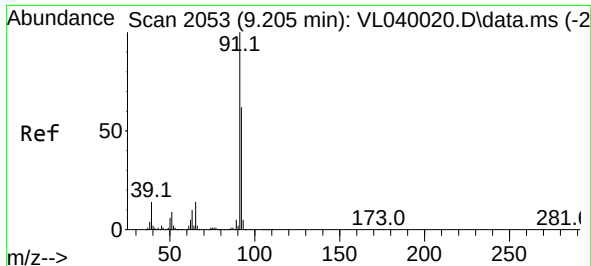
Tgt Ion: 43 Resp: 477909  
Ion Ratio Lower Upper  
43 100  
58 49.8 39.4 59.2  
98 0.5 0.2 0.4#



#52  
Tetrachloroethene  
Concen: 2.243 ppbv  
RT: 10.600 min Scan# 2487  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 164 Resp: 206385  
Ion Ratio Lower Upper  
164 100  
166 123.8 97.4 146.0  
129 104.5 84.3 126.5  
131 103.0 85.8 128.8

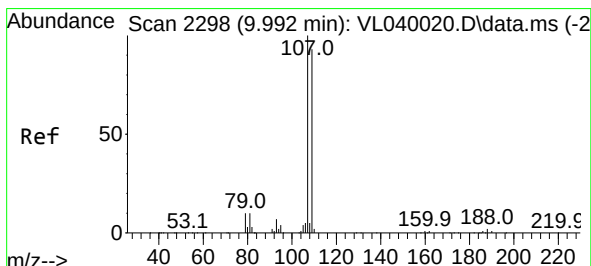
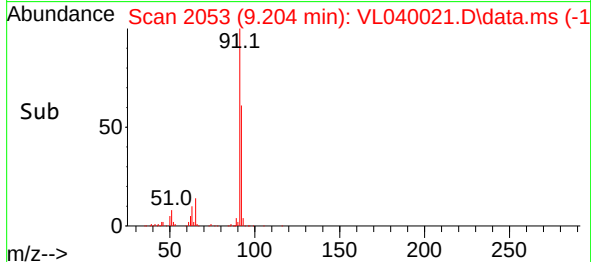
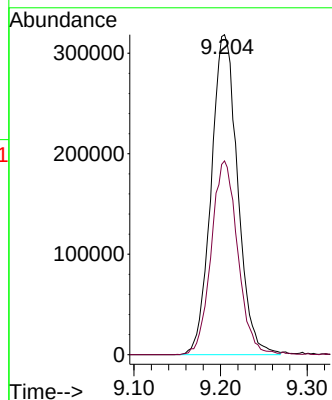
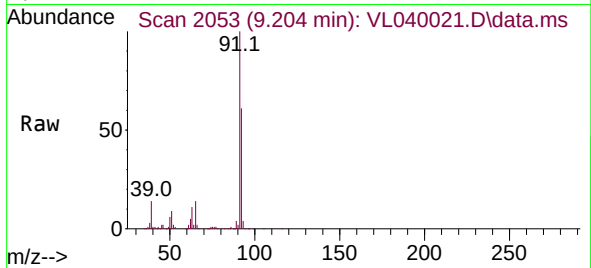




#53  
Toluene  
Concen: 2.273 ppbv  
RT: 9.204 min Scan# 2053  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

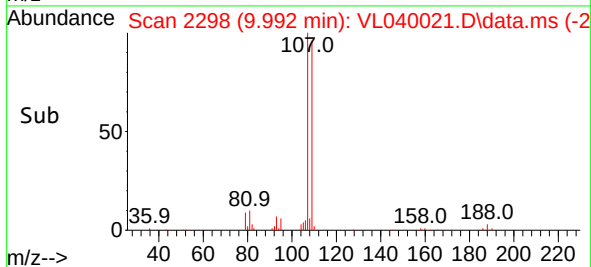
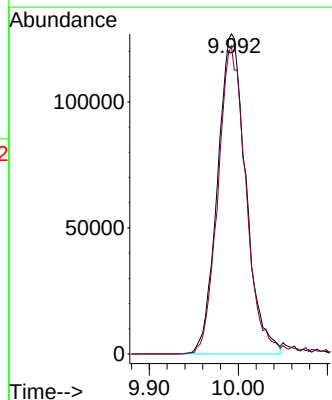
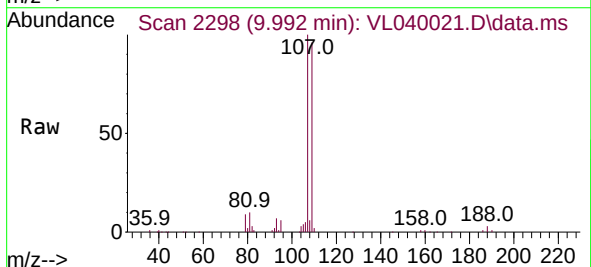
Instrument :  
MSVOA\_L  
ClientSampleId :

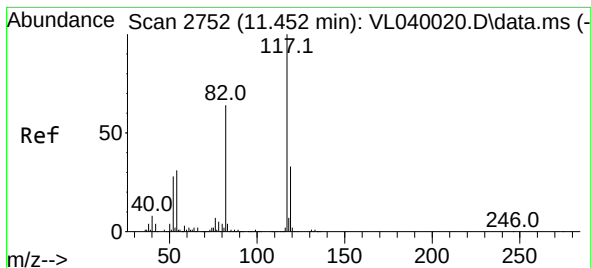
Tgt Ion: 91 Resp: 676531  
Ion Ratio Lower Upper  
91 100  
92 61.0 48.7 73.1



#54  
1,2-Dibromoethane  
Concen: 2.374 ppbv  
RT: 9.992 min Scan# 2298  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 107 Resp: 280198  
Ion Ratio Lower Upper  
107 100  
109 96.1 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :

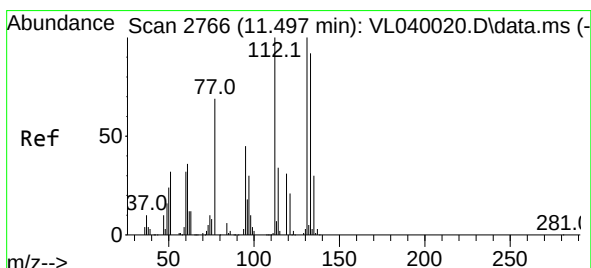
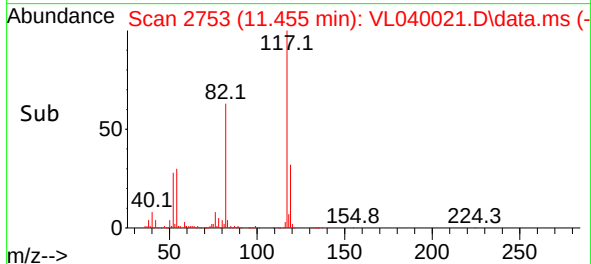
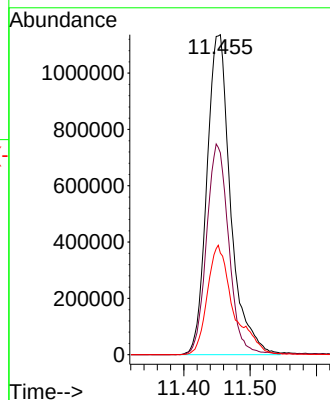
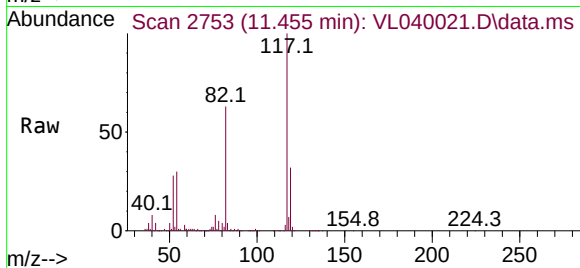
Tgt Ion:117 Resp: 2819748

Ion Ratio Lower Upper

117 100

82 62.2 51.2 76.8

119 37.7 23.2 34.8#



#56

1,1,1,2-Tetrachloroethane

Concen: 2.242 ppbv

RT: 11.491 min Scan# 2764

Delta R.T. -0.006 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

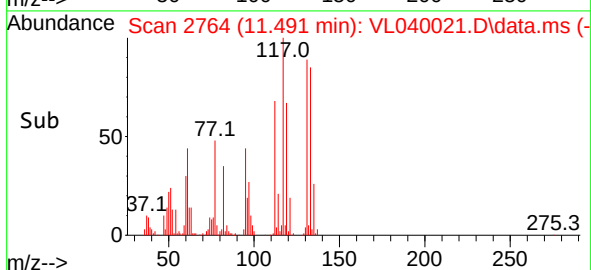
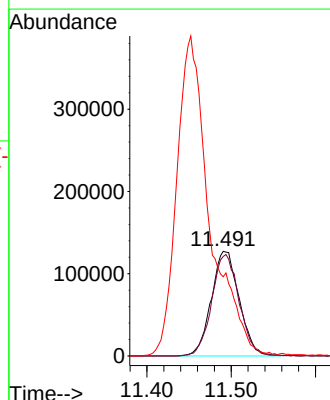
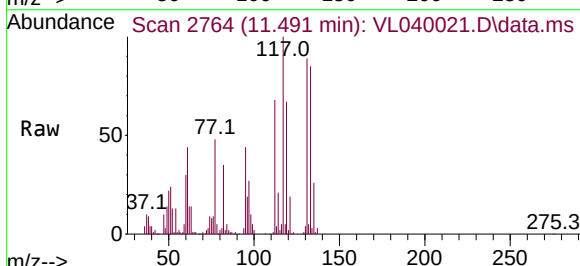
Tgt Ion:131 Resp: 291832

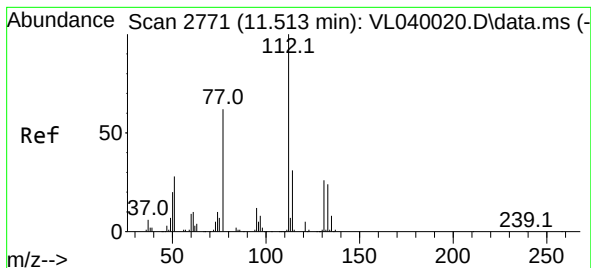
Ion Ratio Lower Upper

131 100

133 95.6 75.8 113.8

119 364.6 52.3 78.5#

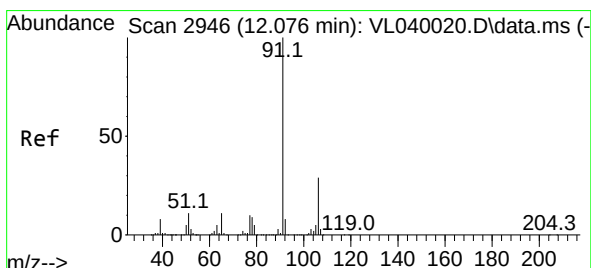
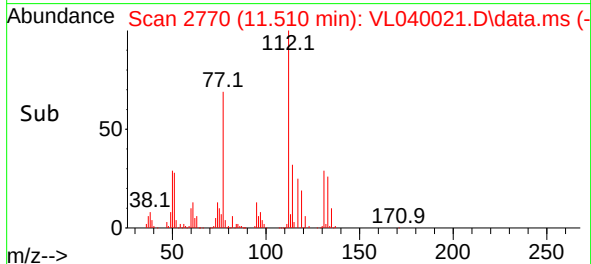
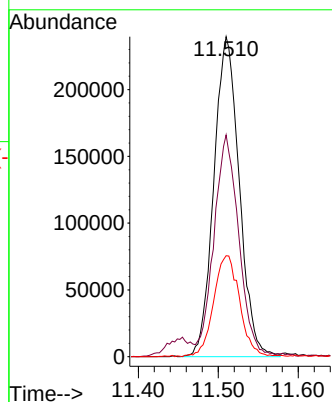
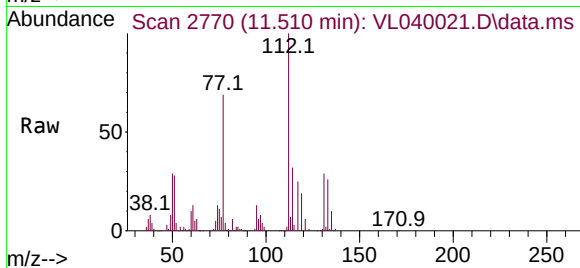




#57  
Chlorobenzene  
Concen: 2.208 ppbv  
RT: 11.510 min Scan# 211  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

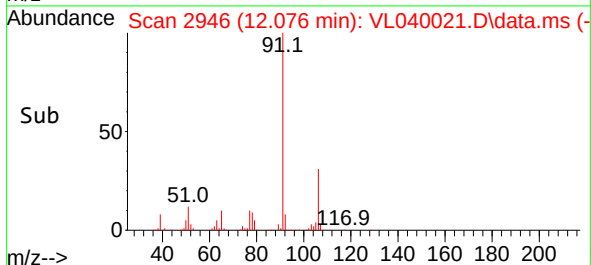
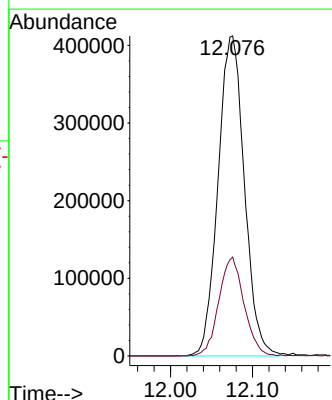
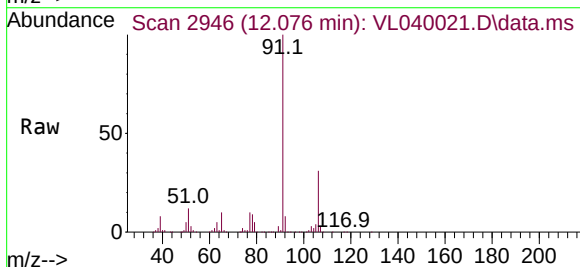
Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion:112 Resp: 528541  
Ion Ratio Lower Upper  
112 100  
77 68.5 50.6 75.8  
114 31.4 27.8 34.0

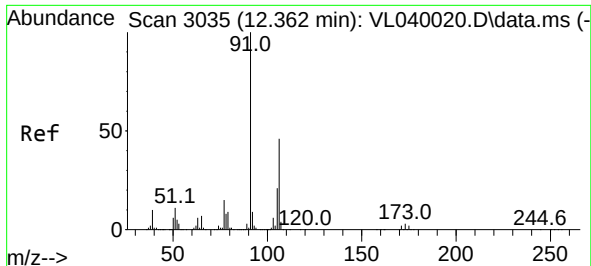


#58  
Ethyl Benzene  
Concen: 2.299 ppbv  
RT: 12.076 min Scan# 2946  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 91 Resp: 920923  
Ion Ratio Lower Upper  
91 100  
106 30.9 23.5 35.3







#59

m/p-Xylene

Concen: 2.396 ppbv

RT: 12.359 min Scan# 3035

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

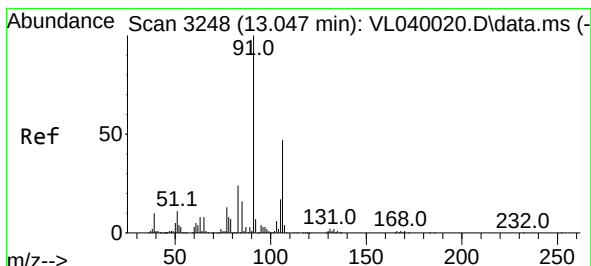
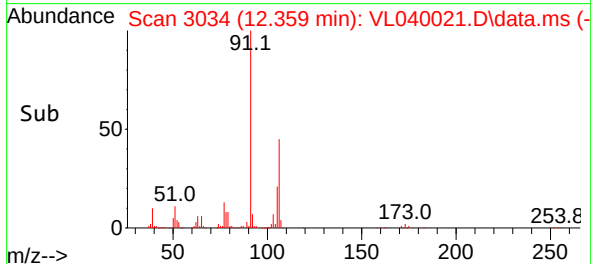
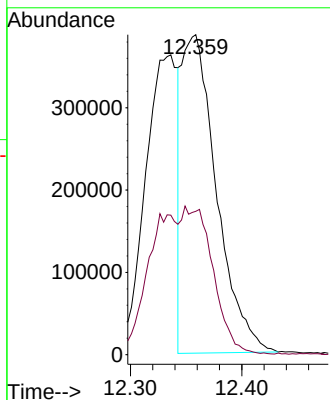
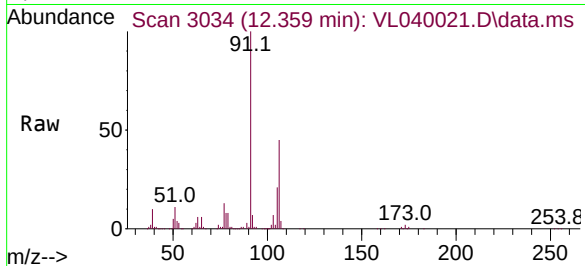
ClientSampleId :

Tgt Ion: 91 Resp: 836246

Ion Ratio Lower Upper

91 100

106 82.3 35.5 53.3#



#60

o-Xylene

Concen: 2.289 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.006 min

Lab File: VL040021.D

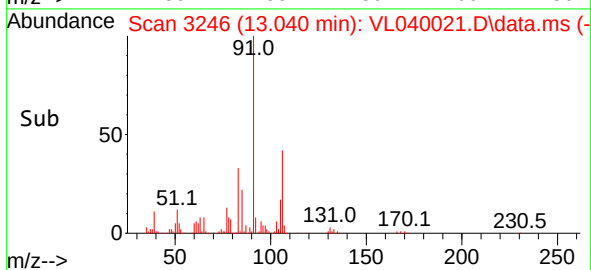
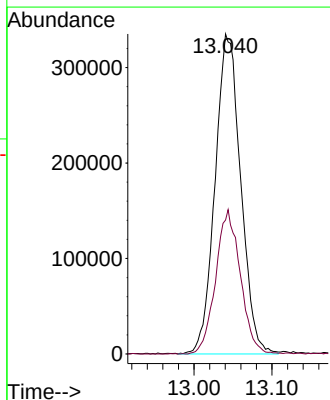
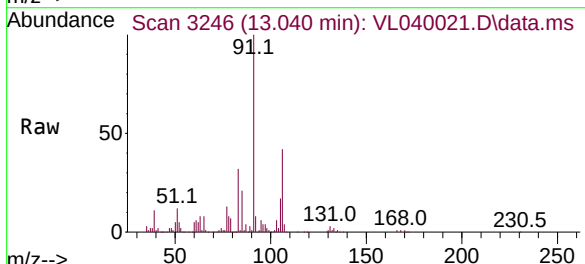
Acq: 19 Dec 2022 10:16

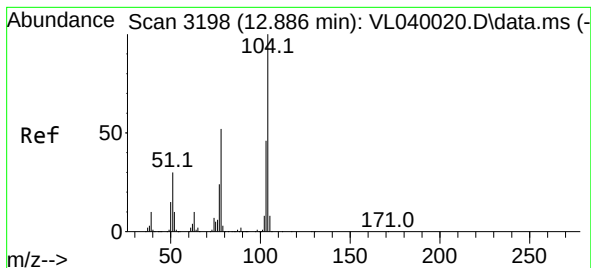
Tgt Ion: 91 Resp: 765089

Ion Ratio Lower Upper

91 100

106 43.5 22.4 67.0





#61

Styrene

Concen: 2.308 ppbv

RT: 12.883 min Scan# 3198

Delta R.T. -0.003 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :

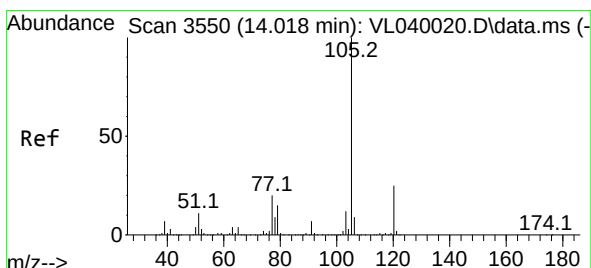
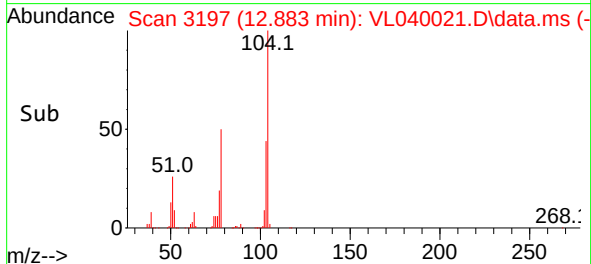
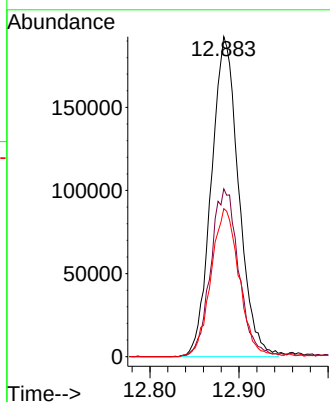
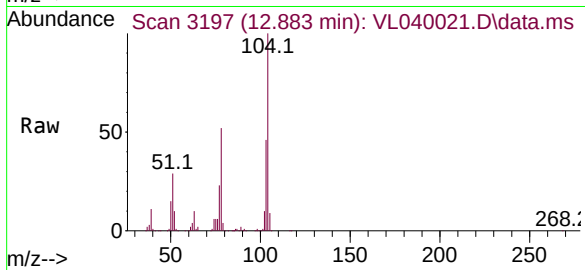
Tgt Ion:104 Resp: 411314

Ion Ratio Lower Upper

104 100

78 54.2 42.4 63.6

103 48.0 37.2 55.8



#62

Isopropylbenzene

Concen: 2.268 ppbv

RT: 14.018 min Scan# 3550

Delta R.T. -0.000 min

Lab File: VL040021.D

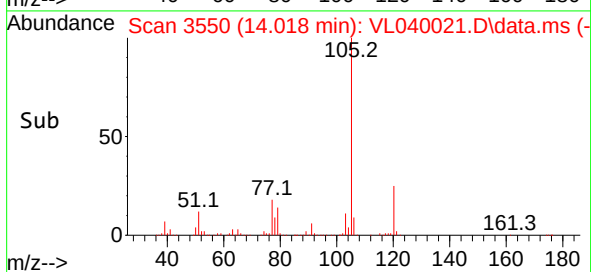
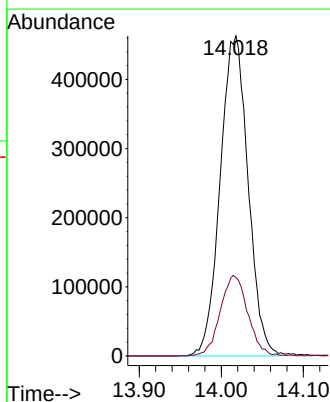
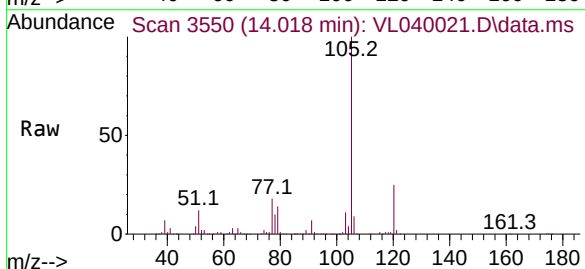
Acq: 19 Dec 2022 10:16

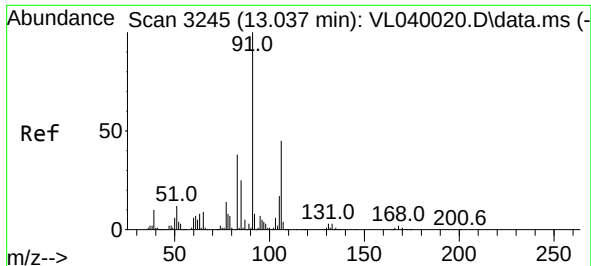
Tgt Ion:105 Resp: 1093310

Ion Ratio Lower Upper

105 100

120 25.0 20.6 31.0

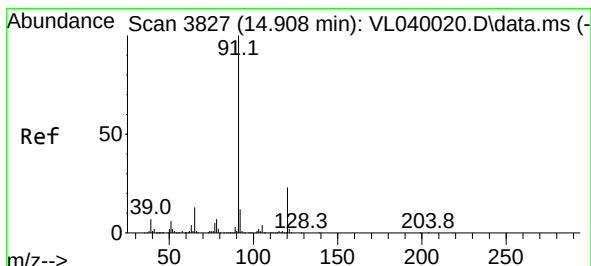
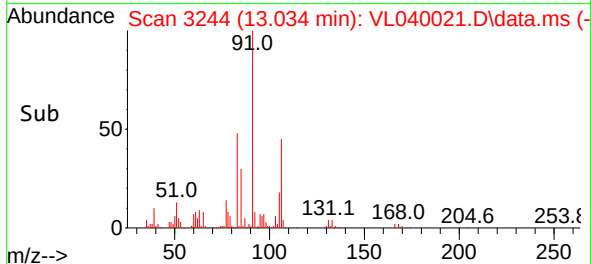
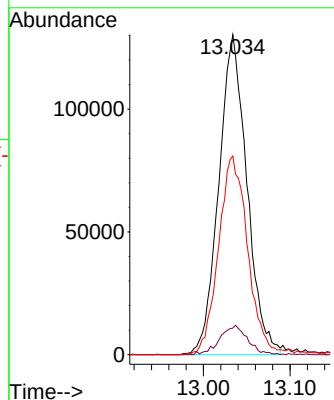
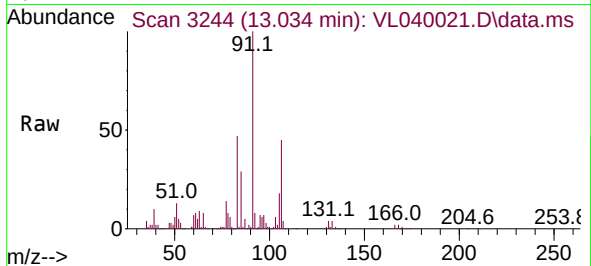




#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.393 ppbv  
RT: 13.034 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

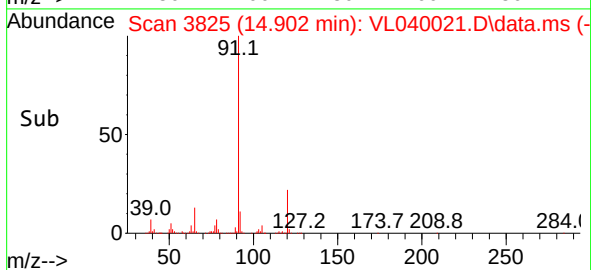
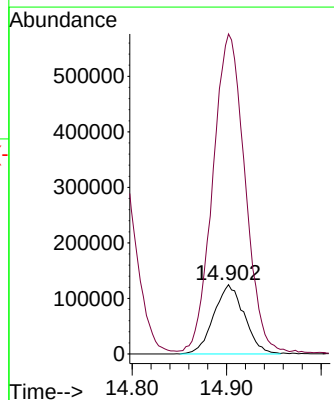
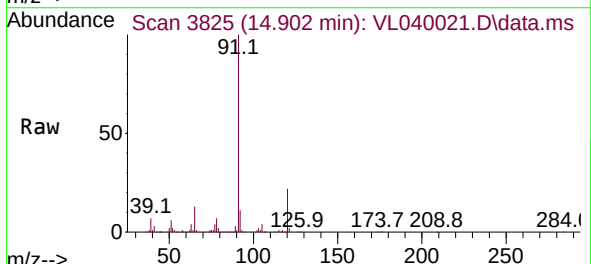
Instrument :  
MSVOA\_L  
ClientSampleId :

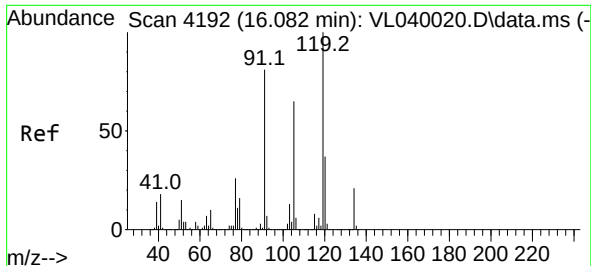
Tgt Ion: 83 Resp: 294274  
Ion Ratio Lower Upper  
83 100  
131 9.1 4.5 13.5  
85 65.3 33.3 99.9



#64  
n-propylbenzene  
Concen: 2.308 ppbv  
RT: 14.902 min Scan# 3825  
Delta R.T. -0.006 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 120 Resp: 280044  
Ion Ratio Lower Upper  
120 100  
91 490.7 384.3 576.5

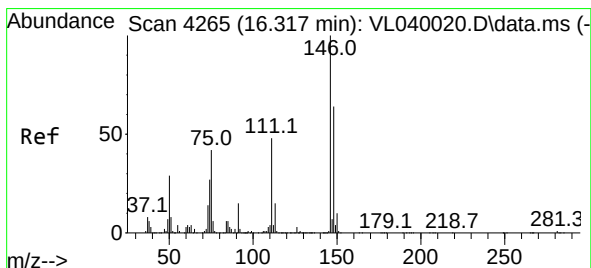
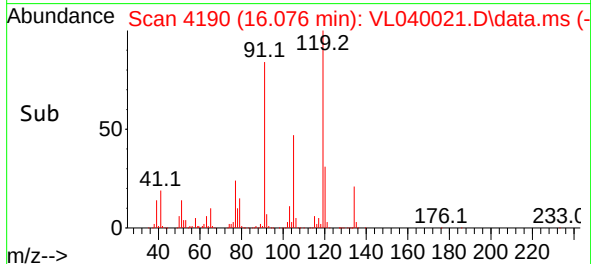
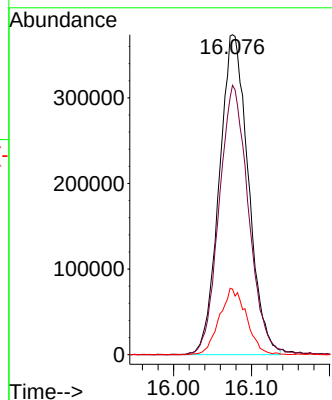
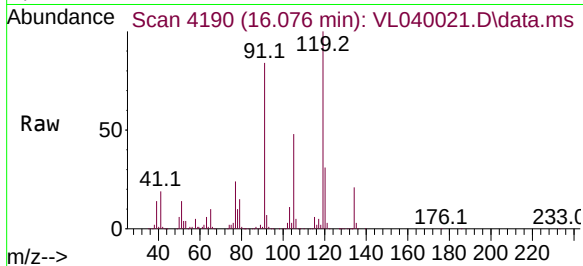




#65  
tert-Butylbenzene  
Concen: 2.313 ppbv  
RT: 16.076 min Scan# 4192  
Delta R.T. -0.006 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

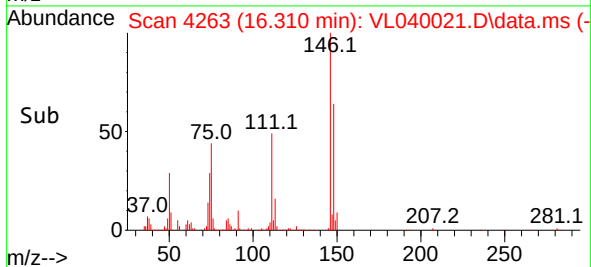
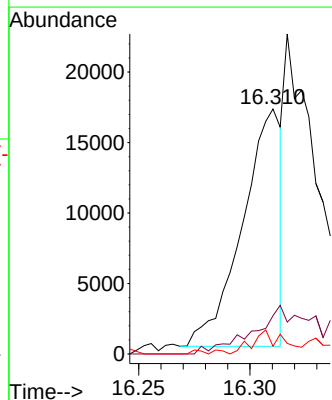
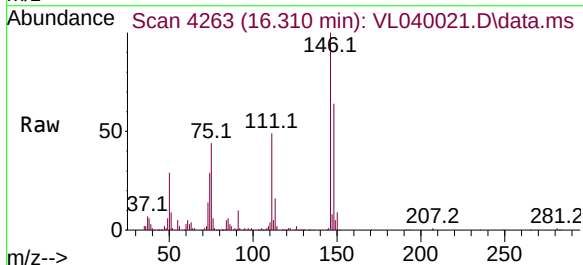
Instrument :  
MSVOA\_L  
ClientSampleId :

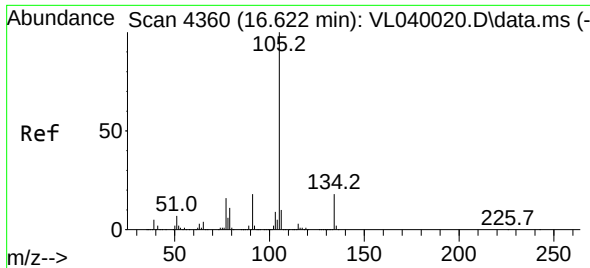
Tgt Ion:119 Resp: 968146  
Ion Ratio Lower Upper  
119 100  
91 85.3 66.9 100.3  
134 19.4 15.8 23.6



#66  
Benzyl Chloride  
Concen: 0.940 ppbv  
RT: 16.310 min Scan# 4263  
Delta R.T. -0.006 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 91 Resp: 20435  
Ion Ratio Lower Upper  
91 100  
126 33.3 12.2 18.2#  
128 14.1 4.2 6.2#

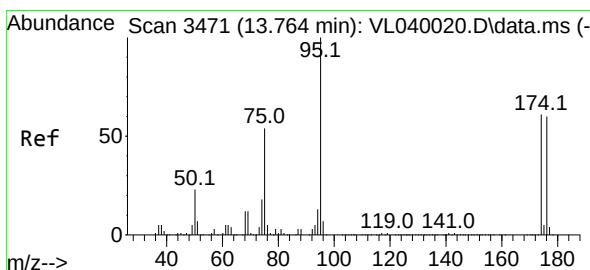
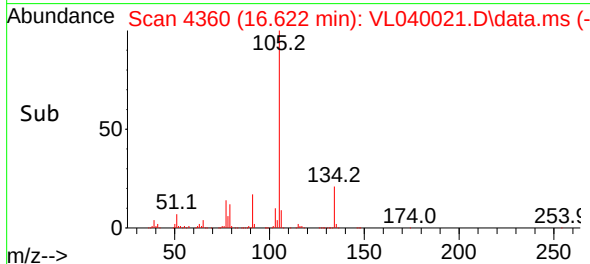
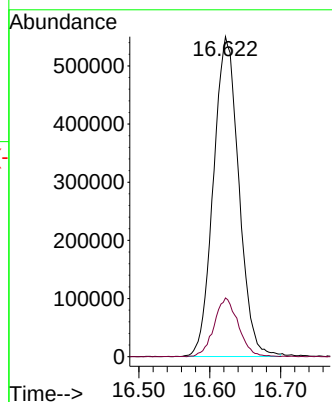
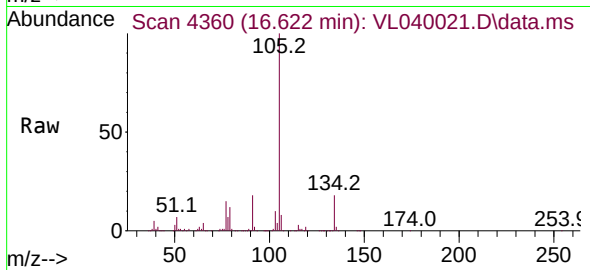




#67  
 sec-Butylbenzene  
 Concen: 2.330 ppbv  
 RT: 16.622 min Scan# 4360  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

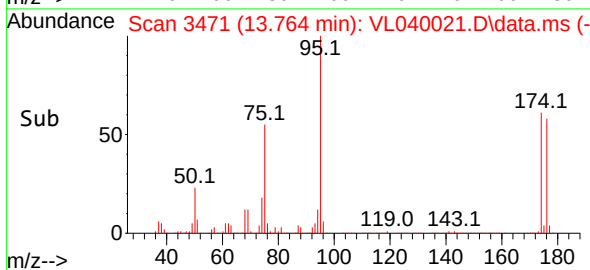
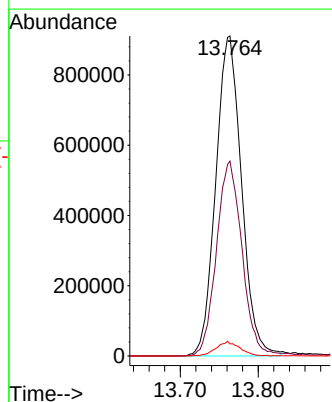
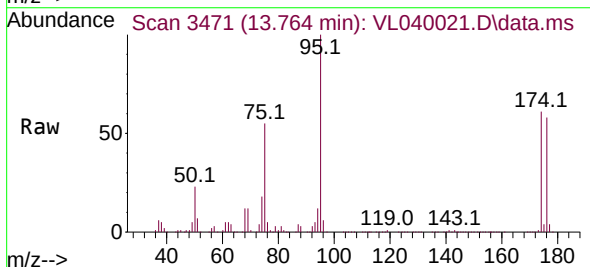
Instrument :  
 MSVOA\_L  
 ClientSampleId :

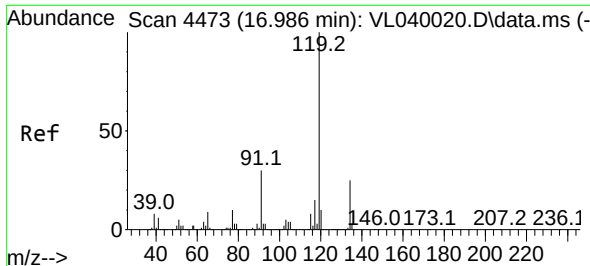
Tgt Ion:105 Resp: 1368148  
 Ion Ratio Lower Upper  
 105 100  
 134 17.7 14.2 21.4



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.719 ppbv  
 RT: 13.764 min Scan# 3471  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

Tgt Ion: 95 Resp: 2093310  
 Ion Ratio Lower Upper  
 95 100  
 174 61.3 48.6 73.0  
 175 4.3 3.4 5.2

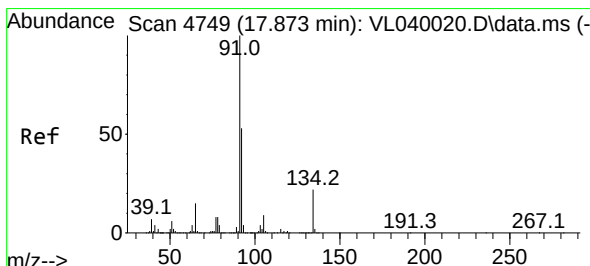
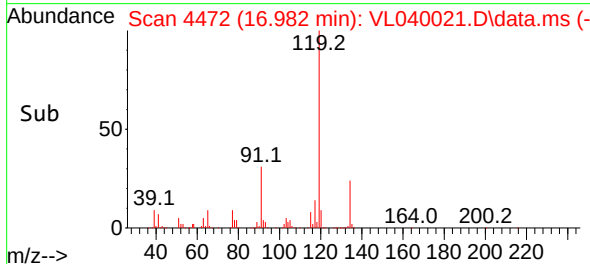
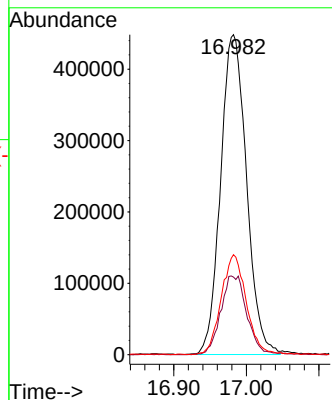
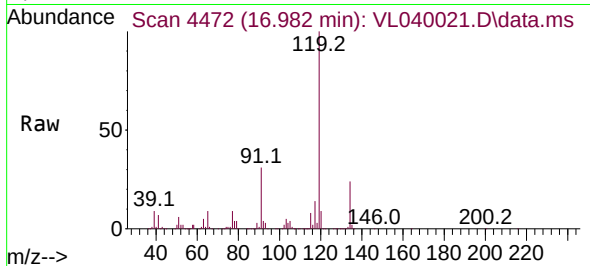




#69  
p-Isopropyltoluene  
Concen: 2.374 ppbv  
RT: 16.982 min Scan# 4473  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

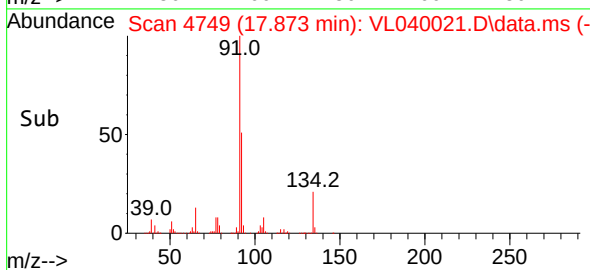
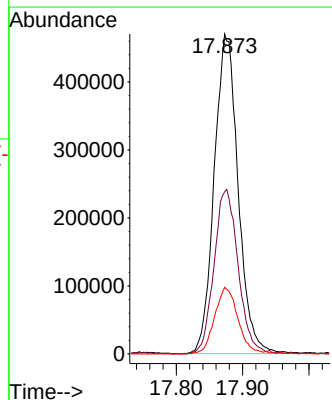
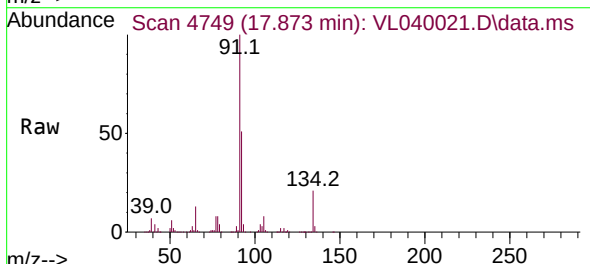
Instrument :  
MSVOA\_L  
ClientSampleId :

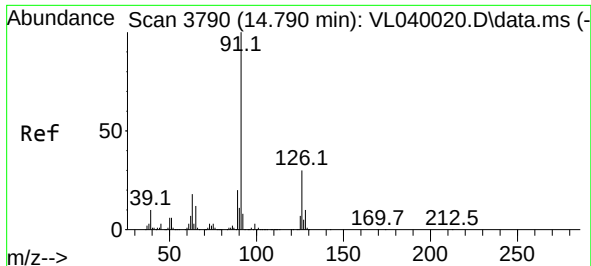
Tgt Ion:119 Resp: 1113169  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.2 30.4  
91 30.7 24.2 36.4



#70  
n-Butylbenzene  
Concen: 2.396 ppbv  
RT: 17.873 min Scan# 4749  
Delta R.T. -0.000 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 91 Resp: 1174066  
Ion Ratio Lower Upper  
91 100  
92 52.0 43.2 64.8  
134 20.8 17.4 26.2

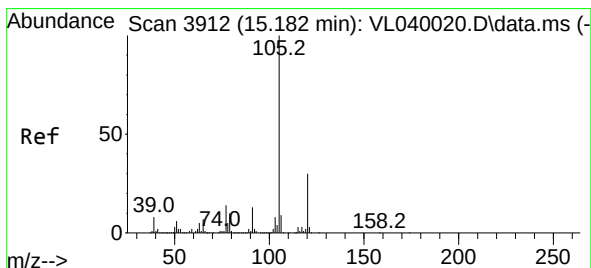
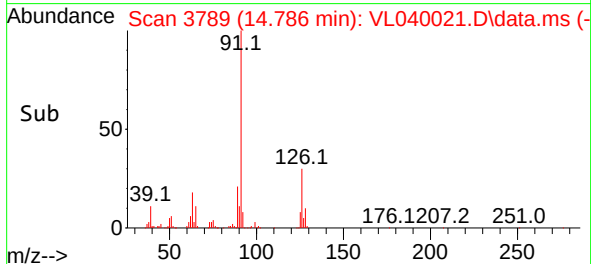
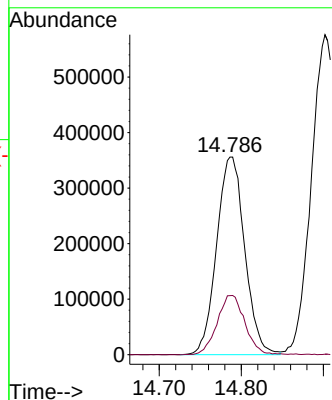
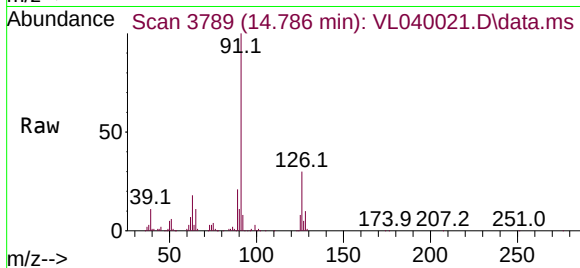




#71  
2-Chlorotoluene  
Concen: 2.306 ppbv  
RT: 14.786 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

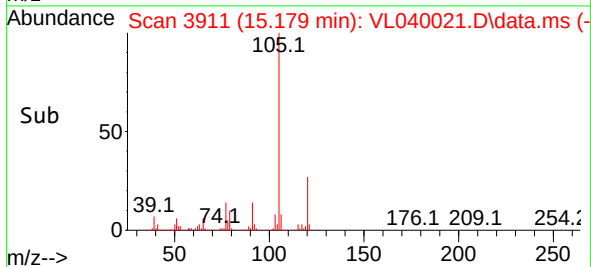
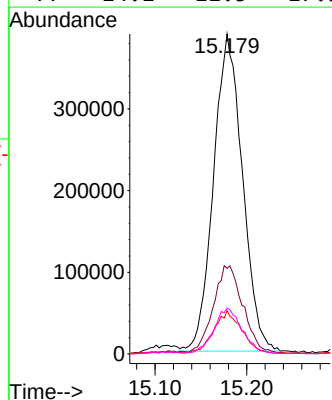
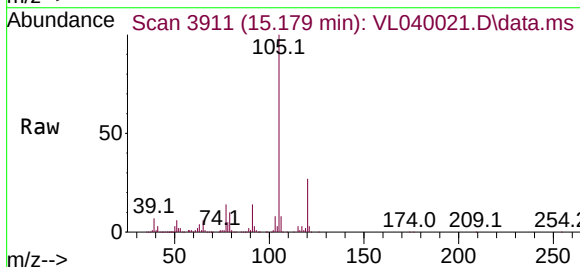
Instrument :  
MSVOA\_L  
ClientSampleId :

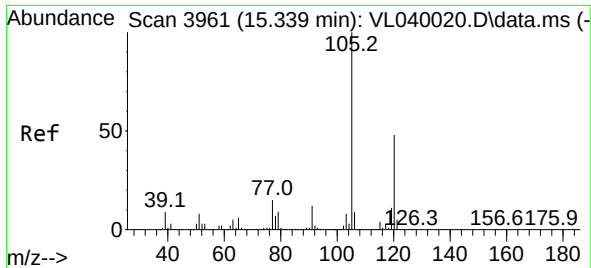
Tgt Ion: 91 Resp: 848098  
Ion Ratio Lower Upper  
91 100  
126 29.7 12.1 48.5



#72  
4-Ethyltoluene  
Concen: 2.286 ppbv  
RT: 15.179 min Scan# 3911  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion: 105 Resp: 848637  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.5 35.3  
91 13.6 10.5 15.7  
77 14.1 11.5 17.3

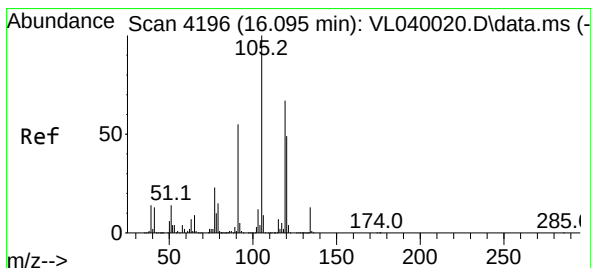
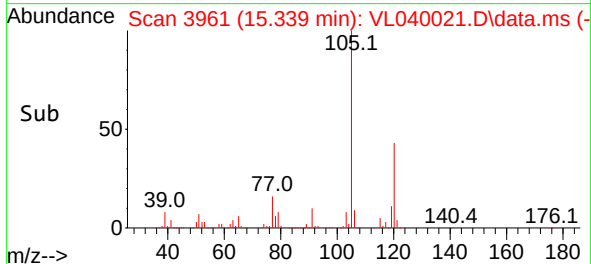
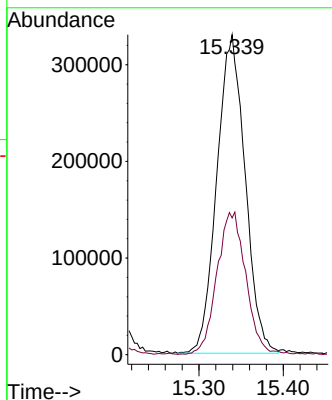
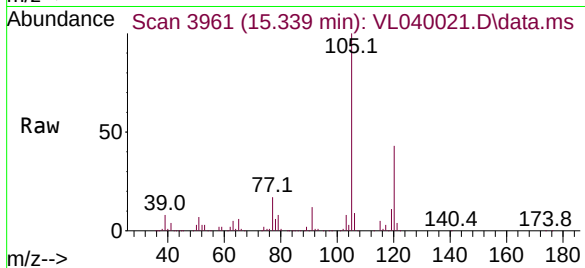




#73  
 1,3,5-Trimethylbenzene  
 Concen: 2.284 ppbv  
 RT: 15.339 min Scan# 3961  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

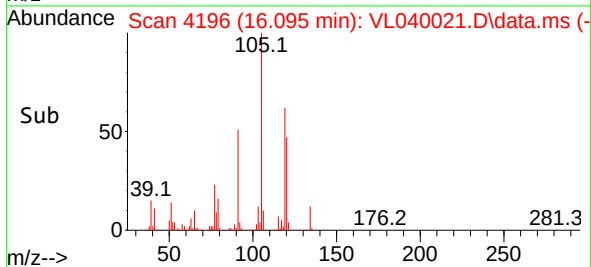
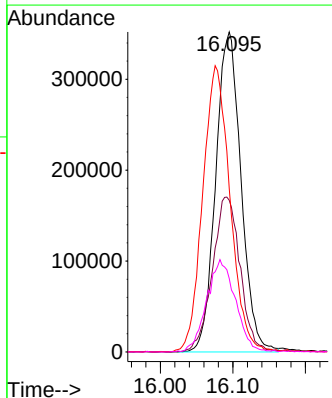
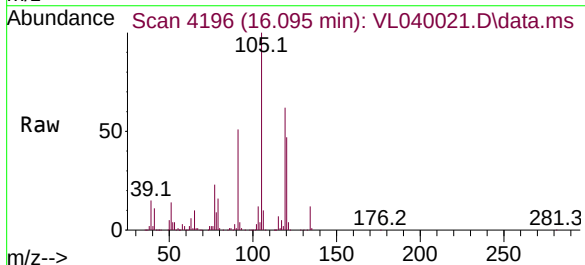
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tgt Ion:105 Resp: 767082  
 Ion Ratio Lower Upper  
 105 100  
 120 42.8 38.4 57.6

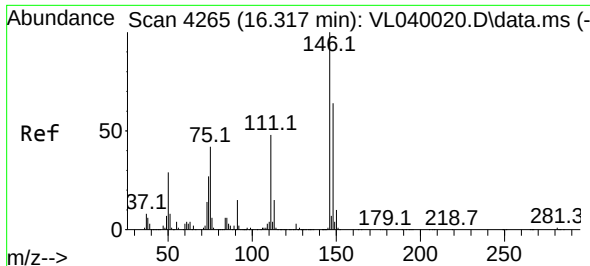


#74  
 1,2,4-Trimethylbenzene  
 Concen: 2.314 ppbv  
 RT: 16.095 min Scan# 4196  
 Delta R.T. -0.000 min  
 Lab File: VL040021.D  
 Acq: 19 Dec 2022 10:16

Tgt Ion:105 Resp: 854017  
 Ion Ratio Lower Upper  
 105 100  
 120 47.3 39.3 58.9  
 91 50.5 44.2 66.4  
 77 22.9 18.8 28.2



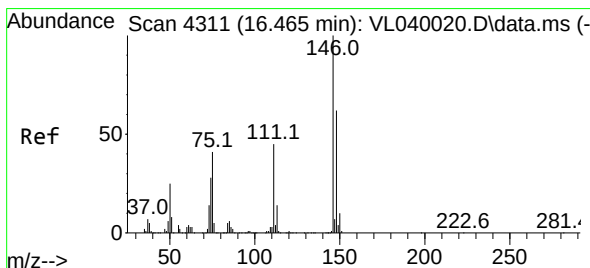
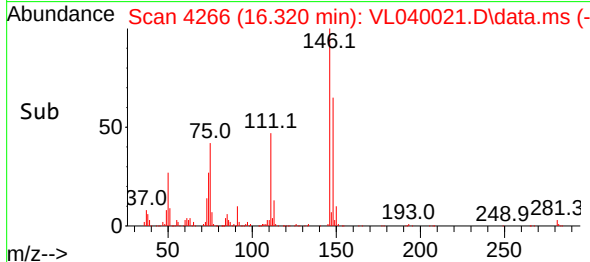
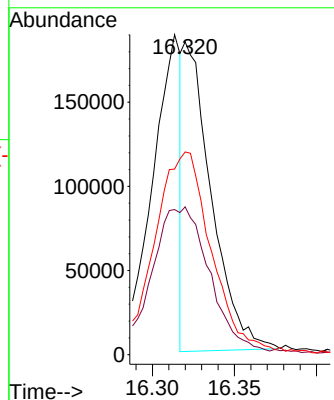
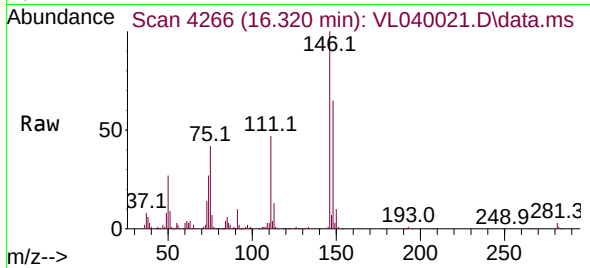




#75  
1,3-Dichlorobenzene  
Concen: 1.087 ppbv  
RT: 16.320 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

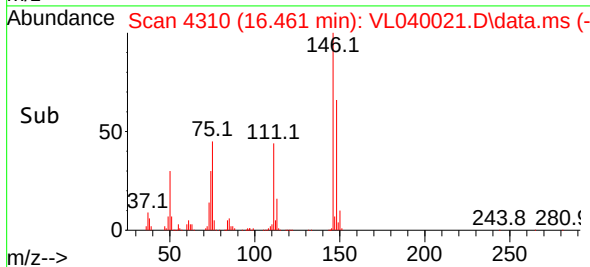
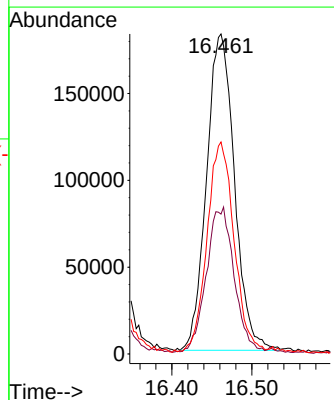
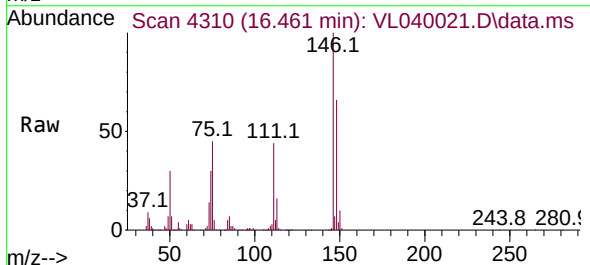
Instrument :  
MSVOA\_L  
ClientSampleId :

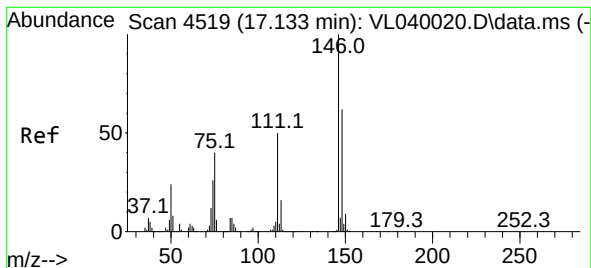
Tgt Ion:146 Resp: 218995  
Ion Ratio Lower Upper  
146 100  
111 101.1 23.9 71.8#  
148 135.2 32.0 96.2#



#76  
1,4-Dichlorobenzene  
Concen: 2.228 ppbv  
RT: 16.461 min Scan# 4310  
Delta R.T. -0.003 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion:146 Resp: 443213  
Ion Ratio Lower Upper  
146 100  
111 46.9 23.4 70.2  
148 66.6 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 2.275 ppbv

RT: 17.127 min Scan# 4517

Delta R.T. -0.006 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :

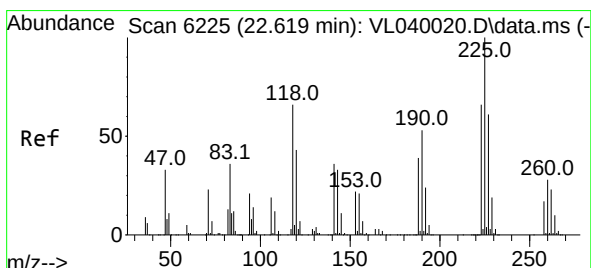
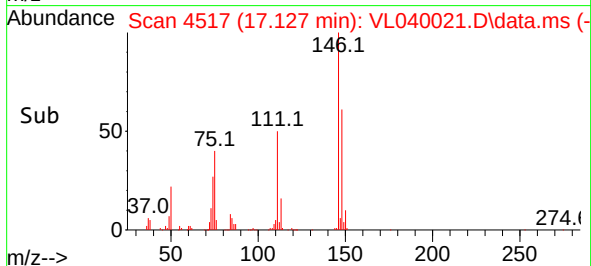
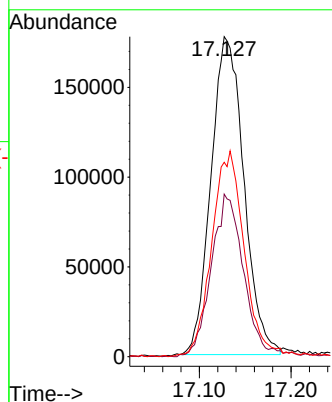
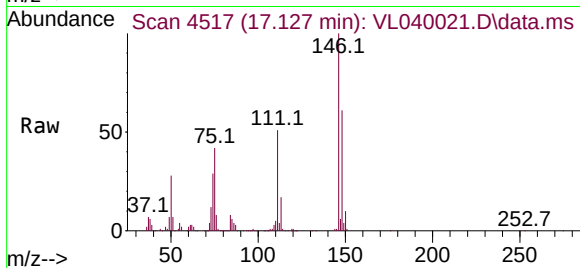
Tgt Ion:146 Resp: 441061

Ion Ratio Lower Upper

146 100

111 51.1 25.3 75.9

148 64.4 31.9 95.9



#78

Hexachloro-1,3-Butadiene

Concen: 2.340 ppbv

RT: 22.625 min Scan# 6227

Delta R.T. 0.006 min

Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

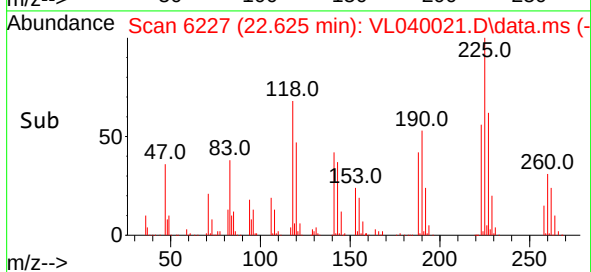
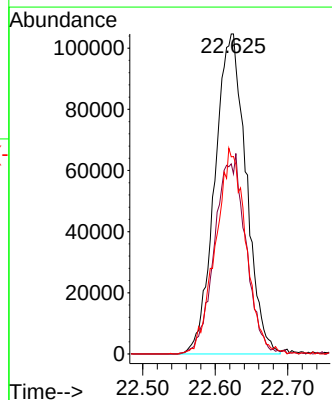
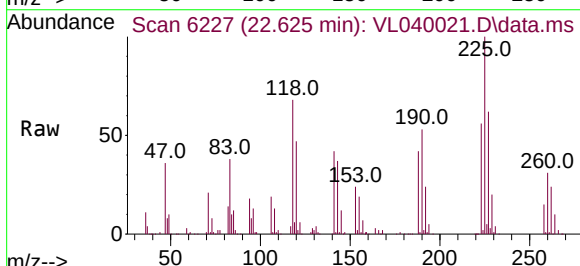
Tgt Ion:225 Resp: 313552

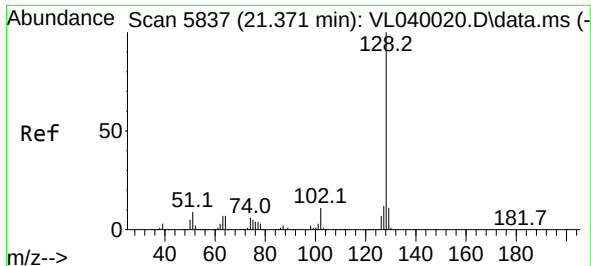
Ion Ratio Lower Upper

225 100

223 62.1 0.0 0.0#

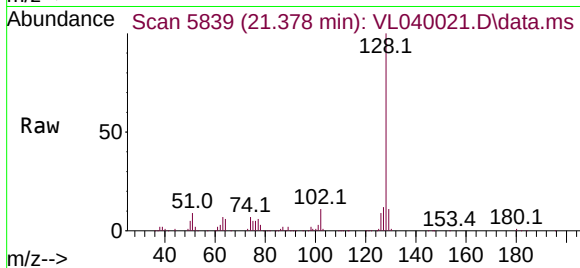
227 62.6 0.0 0.0#



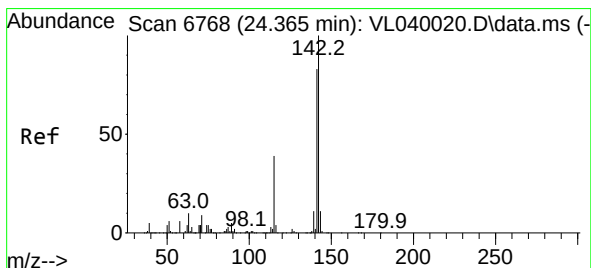
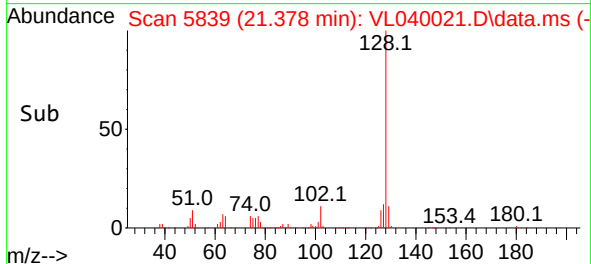
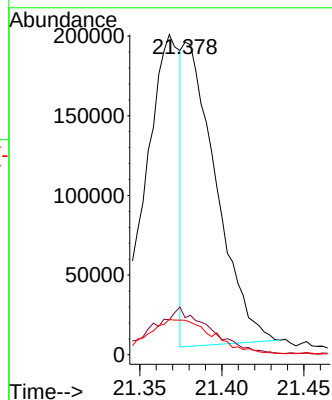


#79  
Naphthalene  
Concen: 1.206 ppbv  
RT: 21.378 min Scan# 5839  
Delta R.T. 0.006 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Instrument :  
MSVOA\_1  
ClientSampleId :

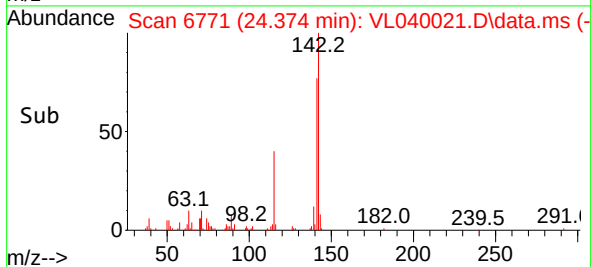
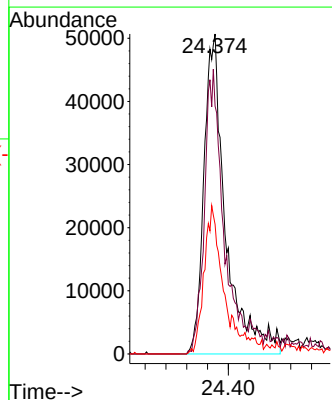
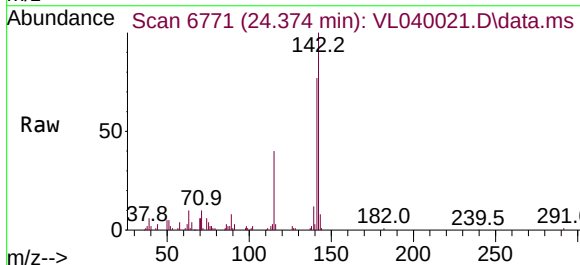


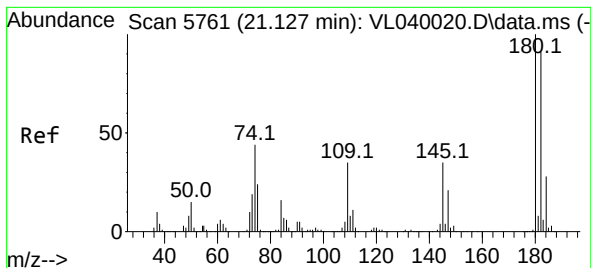
Tgt Ion:128 Resp: 264349  
Ion Ratio Lower Upper  
128 100  
127 12.0 10.0 15.0  
129 11.1 8.8 13.2



#80  
Naphthalene,2-methyl-  
Concen: 2.350 ppbv  
RT: 24.374 min Scan# 6771  
Delta R.T. 0.010 min  
Lab File: VL040021.D  
Acq: 19 Dec 2022 10:16

Tgt Ion:142 Resp: 147853  
Ion Ratio Lower Upper  
142 100  
141 86.5 65.3 97.9  
115 43.7 31.9 47.9





#81

1,2,4-Trichlorobenzene

Concen: 1.218 ppbv

RT: 21.130 min Scan# 51

Delta R.T. 0.003 min

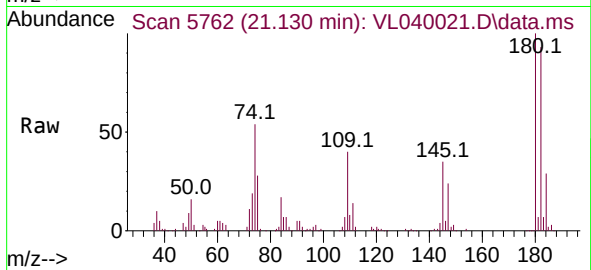
Lab File: VL040021.D

Acq: 19 Dec 2022 10:16

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion:180 Resp: 158103

Ion Ratio Lower Upper

180 100

182 192.2 76.6 115.0#

184 62.0 24.9 37.3#

