

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042402.D  
 Acq On : 21 Apr 2025 13:38  
 Operator : SY/MD  
 Sample : Q1844-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Quant Time: Apr 22 02:53:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.780 | 49   | 129429   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.949 | 114  | 363256   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 306838   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 266636   | 10.575   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.700% |

| Target Compounds              |        |     |         |          |        | Qvalue |
|-------------------------------|--------|-----|---------|----------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.495  | 85  | 9277    | 0.406    | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.463  | 51  | 2255970 | 103.601  | ppbv # | 56     |
| 4) Chloromethane              | 1.531  | 50  | 4494    | 0.497    | ppbv   | 99     |
| 6) Bromomethane               | 1.664  | 94  | 190     | 0.045    | ppbv # | 45     |
| 7) Chloroethane               | 1.463  | 64  | 288269  | 80.917   | ppbv   | 98     |
| 9) Propene                    | 1.557  | 41  | 1145485 | 115.510  | ppbv   | 97     |
| 10) Heptane                   | 4.965  | 43  | 4557    | 0.164    | ppbv # | 19     |
| 11) Trichlorofluoromethane    | 1.495  | 101 | 1015    | 0.047    | ppbv   | 87     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136  | 101 | 1263    | 0.071    | ppbv # | 74     |
| 13) Ethanol                   | 1.751  | 45  | 6709644 | 4256.821 | ppbv   | 85     |
| 15) Acetone                   | 1.835  | 43  | 480705  | 22.688   | ppbv # | 87     |
| 16) 1,3-Butadiene             | 1.615  | 39  | 1268613 | 125.184  | ppbv # | 12     |
| 17) tert-Butyl alcohol        | 2.049  | 59  | 134017  | 5.104    | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 1.894  | 45  | 1797369 | 152.706  | ppbv # | 42     |
| 20) Methylene Chloride        | 2.059  | 84  | 4958    | 0.598    | ppbv # | 91     |
| 21) Allyl Chloride            | 2.046  | 41  | 32076   | 2.193    | ppbv # | 21     |
| 23) Vinyl Acetate             | 2.470  | 43  | 28217   | 3.290    | ppbv # | 53     |
| 25) Ethyl Acetate             | 2.835  | 43  | 39015   | 0.747    | ppbv # | 94     |
| 26) Hexane                    | 2.822  | 57  | 14222   | 0.673    | ppbv   | 88     |
| 27) Carbon Disulfide          | 2.146  | 76  | 1080    | 0.048    | ppbv # | 59     |
| 29) Chloroform                | 2.839  | 83  | 1205    | 0.040    | ppbv   | 99     |
| 30) Cyclohexane               | 3.842  | 84  | 1338    | 0.078    | ppbv # | 1      |
| 34) 2-Butanone                | 2.560  | 43  | 19570   | 0.681    | ppbv   | 94     |
| 36) Benzene                   | 3.651  | 78  | 489138  | 12.484   | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.214  | 62  | 1641    | 0.070    | ppbv # | 95     |
| 39) 1,2-Dichloropropane       | 3.949  | 63  | 100545  | 6.886    | ppbv # | 23     |
| 41) Tetrahydrofuran           | 3.062  | 42  | 748     | 0.045    | ppbv # | 56     |
| 44) 2,2,4-Trimethylpentane    | 4.635  | 57  | 21675   | 0.320    | ppbv # | 75     |
| 52) Tetrachloroethene         | 8.221  | 164 | 292573  | 19.319   | ppbv   | 90     |
| 53) Toluene                   | 6.923  | 91  | 91866   | 1.954    | ppbv   | 100    |
| 58) Ethyl Benzene             | 9.347  | 91  | 17207   | 0.283    | ppbv   | 91     |
| 59) m/p-Xylene                | 9.542  | 91  | 11673   | 0.238    | ppbv # | 32     |
| 60) o-Xylene                  | 9.962  | 91  | 15784   | 0.320    | ppbv   | 99     |
| 61) Styrene                   | 9.869  | 104 | 8361    | 0.355    | ppbv   | 94     |
| 64) n-propylbenzene           | 10.982 | 120 | 651     | 0.036    | ppbv   | 84     |
| 66) Benzyl Chloride           | 11.539 | 91  | 1544    | 0.211    | ppbv # | 70     |
| 69) p-Isopropyltoluene        | 11.921 | 119 | 8280    | 0.103    | ppbv   | 96     |
| 71) 2-Chlorotoluene           | 10.853 | 91  | 9389    | 0.165    | ppbv # | 47     |
| 72) 4-Ethyltoluene            | 11.121 | 105 | 4119    | 0.068    | ppbv # | 71     |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105 | 3685    | 0.069    | ppbv # | 83     |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105 | 14087   | 0.227    | ppbv # | 65     |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146 | 1454    | 0.045    | ppbv # | 55     |
| 79) Naphthalene               | 13.510 | 128 | 38319   | 0.515    | ppbv   | 96     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
Data File : VL042402.D  
Acq On : 21 Apr 2025 13:38  
Operator : SY/MD  
Sample : Q1844-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

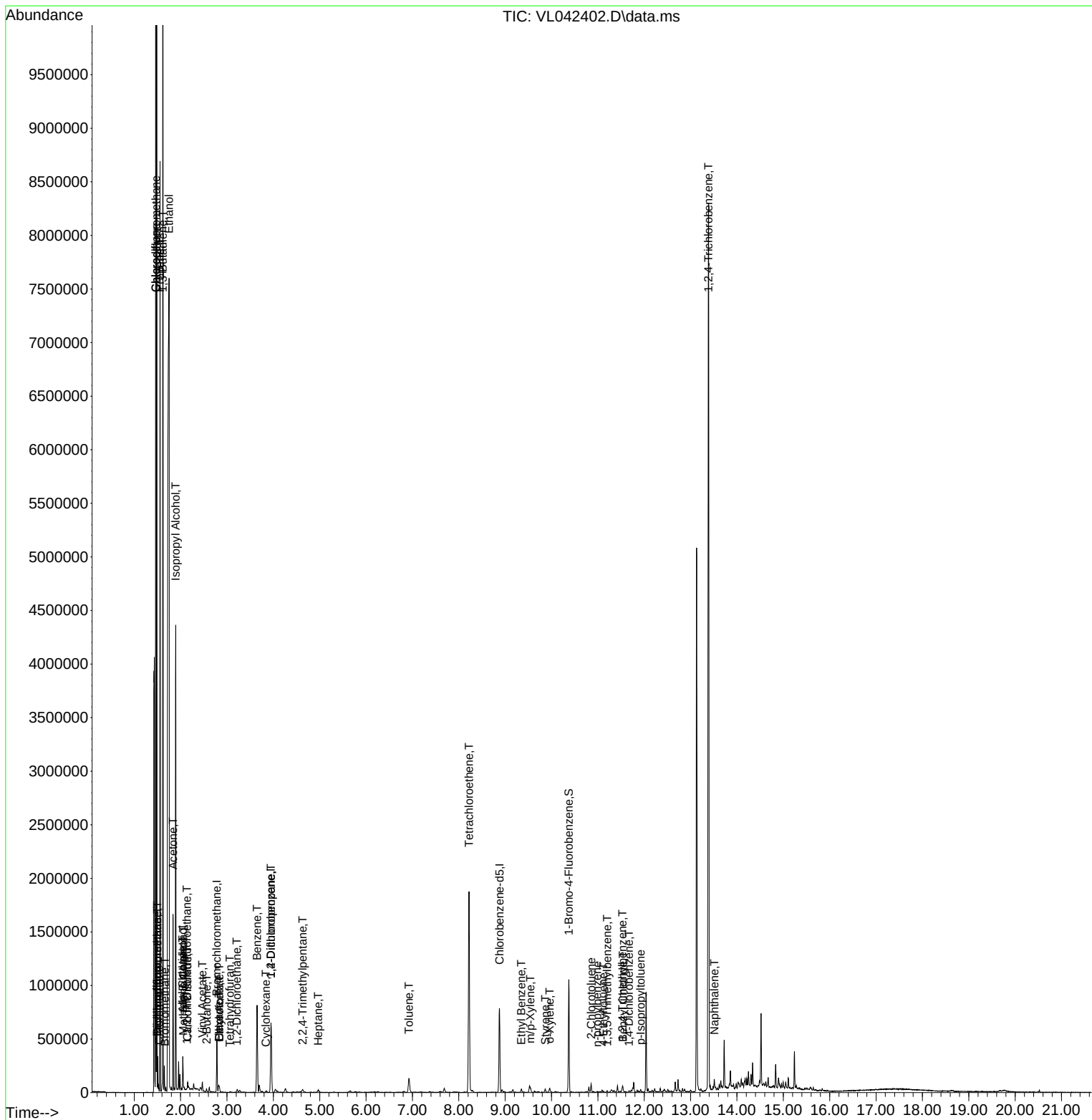
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

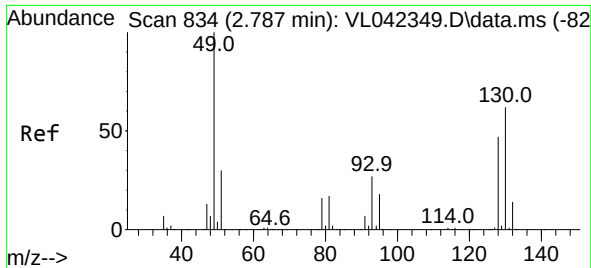
Quant Time: Apr 22 02:53:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| 81) 1,2,4-Trichlorobenzene | 13.384 | 180  | 18335    | 0.574 | ppbv  | # 19     |

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

Quant Time: Apr 22 02:53:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

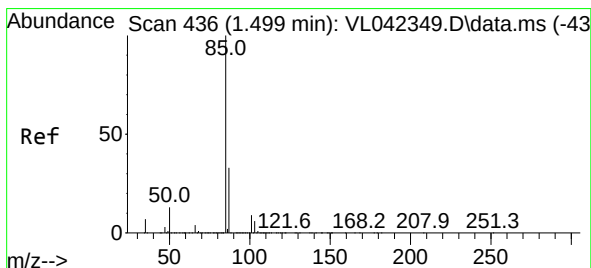
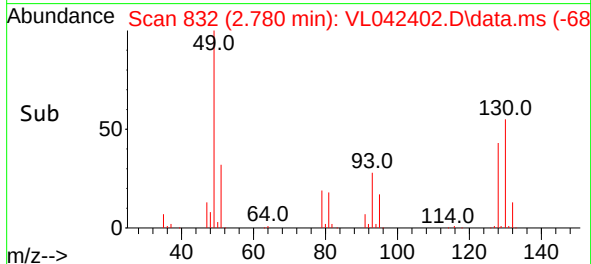
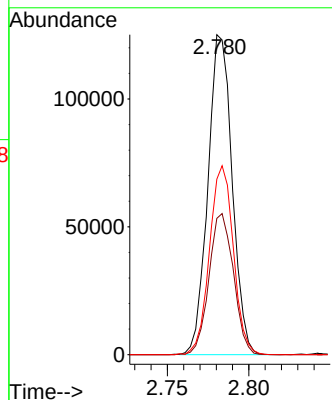
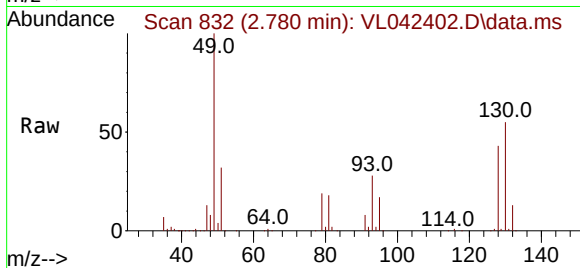




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.780 min Scan# 81  
 Delta R.T. -0.007 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

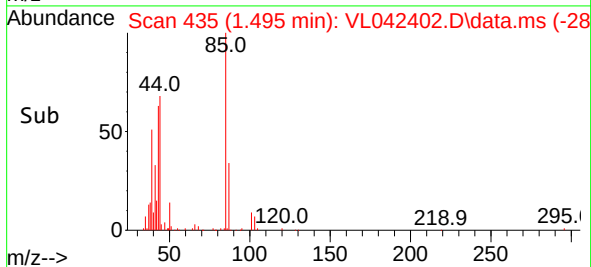
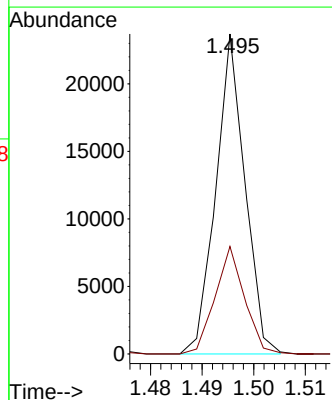
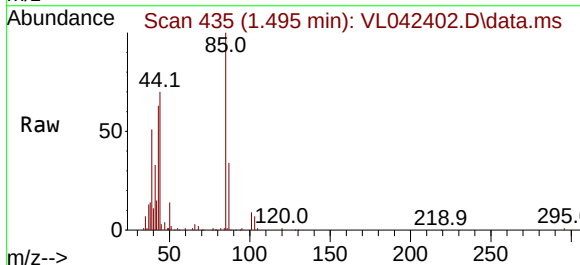
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

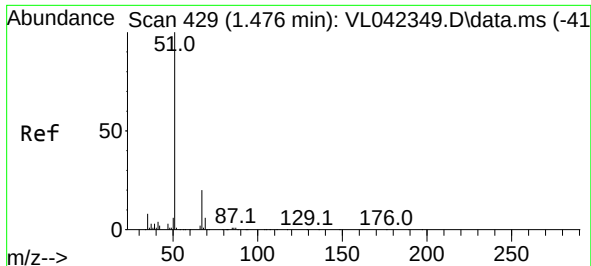
Tgt Ion: 49 Resp: 129429  
 Ion Ratio Lower Upper  
 49 100  
 128 44.5 22.8 68.4  
 130 58.2 29.3 88.0



#2  
 Dichlorodifluoromethane  
 Concen: 0.406 ppbv  
 RT: 1.495 min Scan# 435  
 Delta R.T. -0.003 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

Tgt Ion: 85 Resp: 9277  
 Ion Ratio Lower Upper  
 85 100  
 87 33.6 26.6 39.8

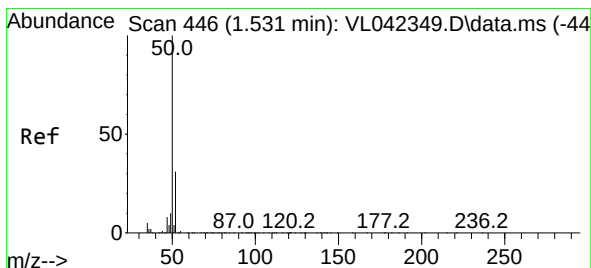
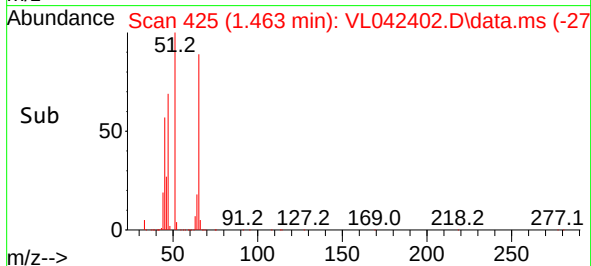
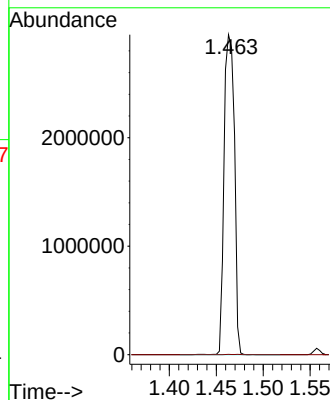
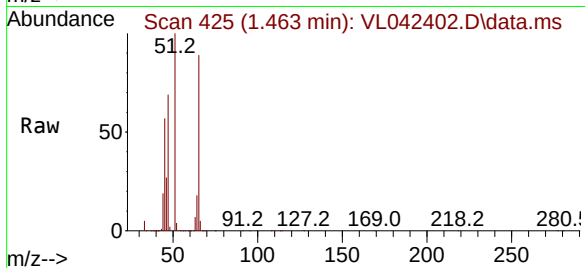




#3  
Chlorodifluoromethane  
Concen: 103.601 ppbv  
RT: 1.463 min Scan# 41  
Delta R.T. -0.013 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

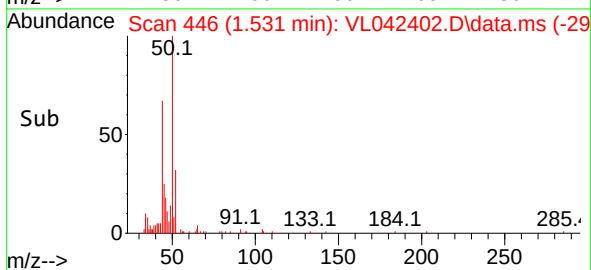
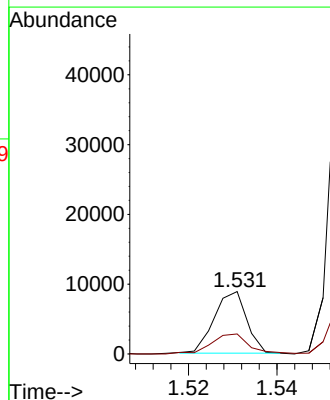
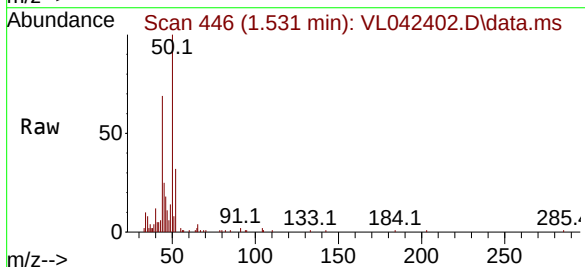
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

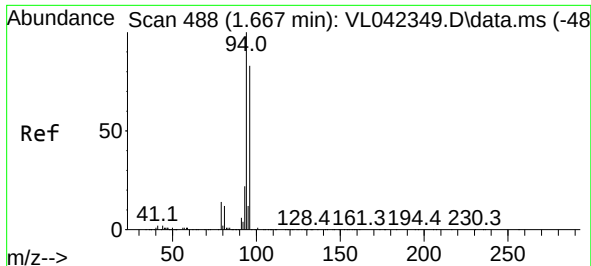
Tgt Ion: 51 Resp: 2255970  
Ion Ratio Lower Upper  
51 100  
67 0.1 16.2 24.4#



#4  
Chloromethane  
Concen: 0.497 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 50 Resp: 4494  
Ion Ratio Lower Upper  
50 100  
52 30.1 24.7 37.1

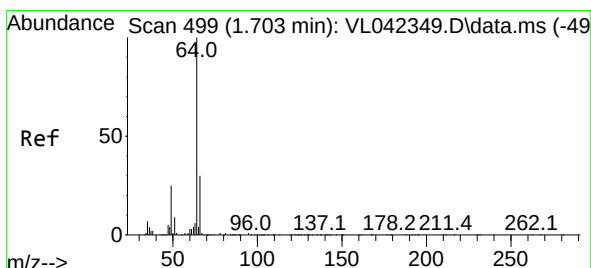
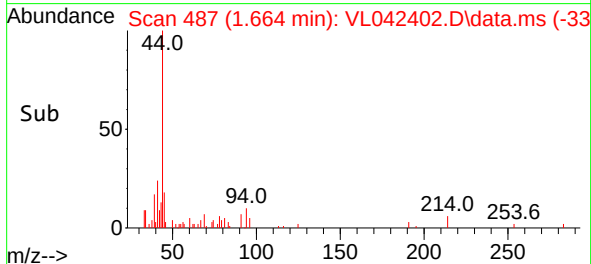
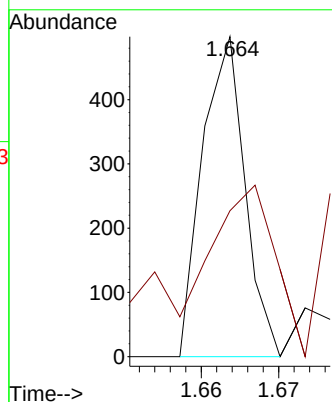
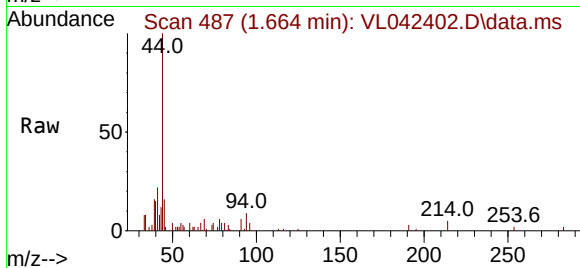




#6  
Bromomethane  
Concen: 0.045 ppbv  
RT: 1.664 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

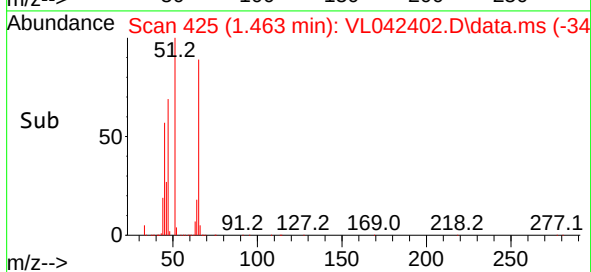
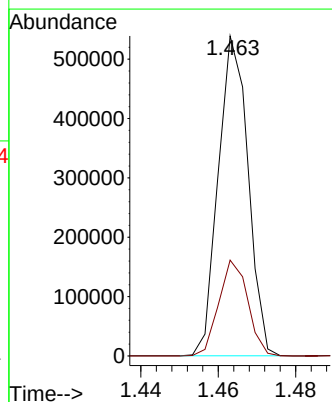
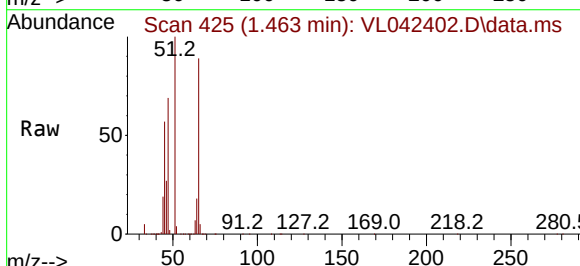
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA1

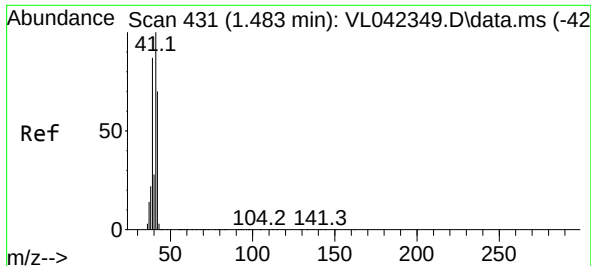
Tgt Ion: 94 Resp: 190  
Ion Ratio Lower Upper  
94 100  
96 33.1 66.2 99.2#



#7  
Chloroethane  
Concen: 80.917 ppbv  
RT: 1.463 min Scan# 425  
Delta R.T. -0.240 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 64 Resp: 288269  
Ion Ratio Lower Upper  
64 100  
66 29.9 24.6 37.0





#9

Propene

Concen: 115.510 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.074 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

Instrument :

MSVOA\_L

ClientSampleId :

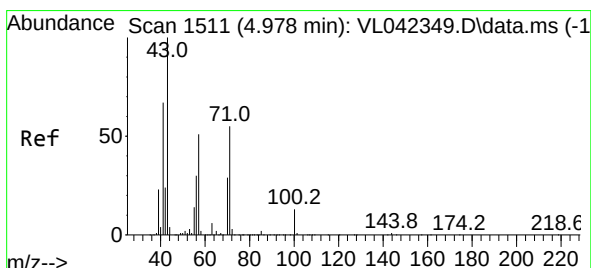
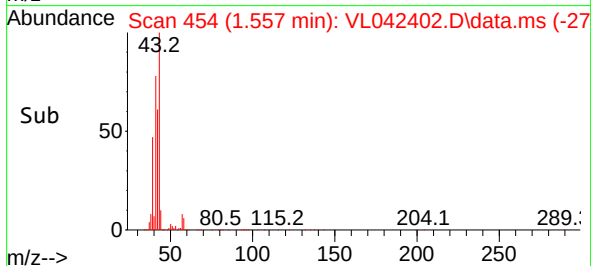
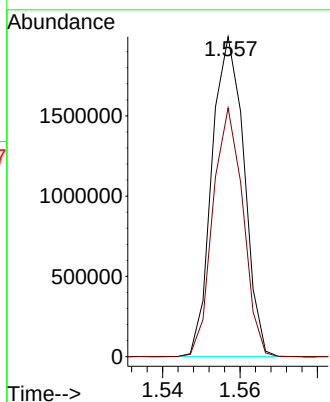
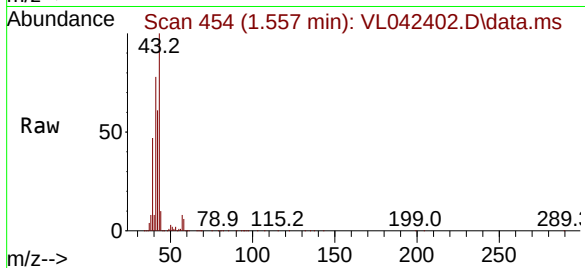
IA1

Tgt Ion: 41 Resp: 1145485

Ion Ratio Lower Upper

41 100

42 73.2 56.2 84.4



#10

Heptane

Concen: 0.164 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.013 min

Lab File: VL042402.D

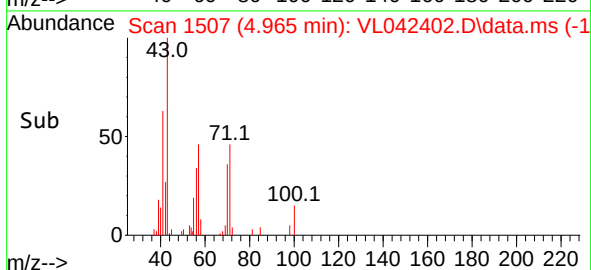
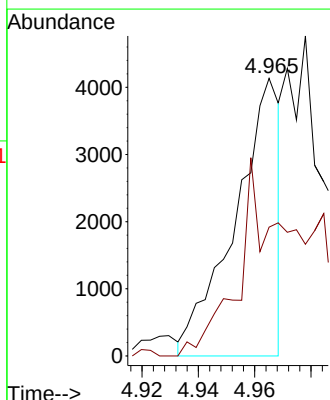
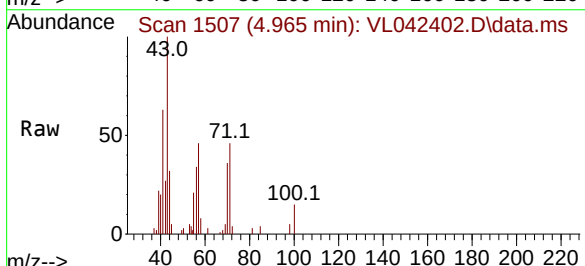
Acq: 21 Apr 2025 13:38

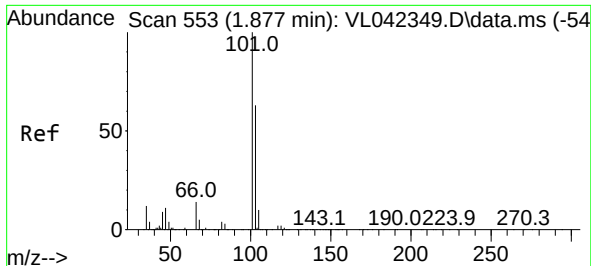
Tgt Ion: 43 Resp: 4557

Ion Ratio Lower Upper

43 100

57 105.9 39.9 59.9#

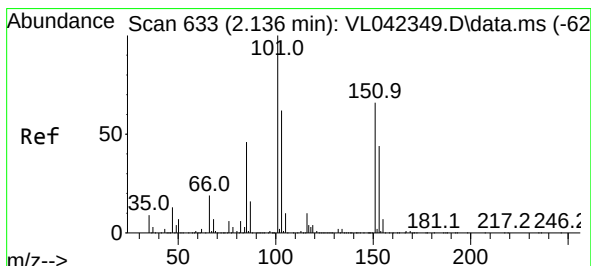
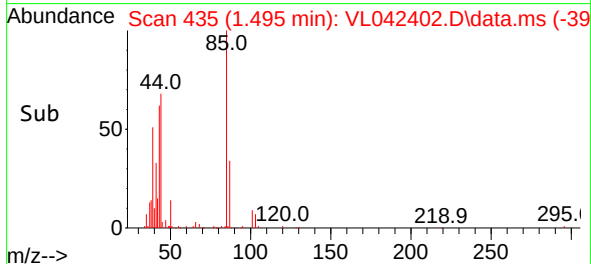
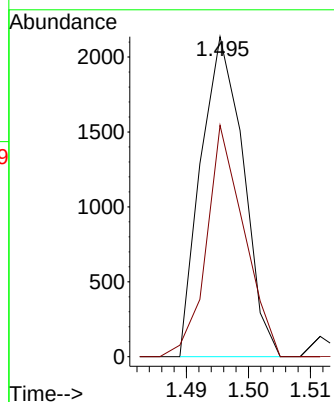
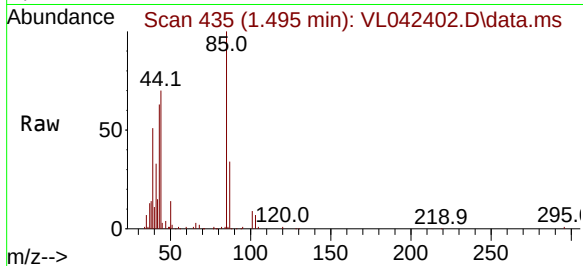




#11  
 Trichlorofluoromethane  
 Concen: 0.047 ppbv  
 RT: 1.495 min Scan# 41  
 Delta R.T. -0.382 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

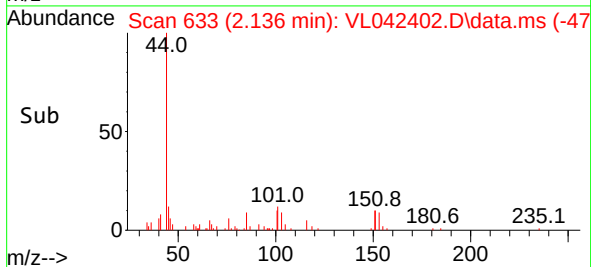
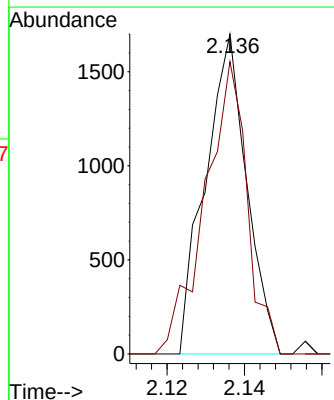
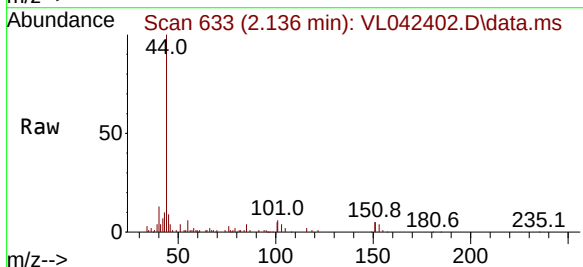
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Tgt Ion:101 Resp: 1015  
 Ion Ratio Lower Upper  
 101 100  
 103 72.3 50.1 75.1

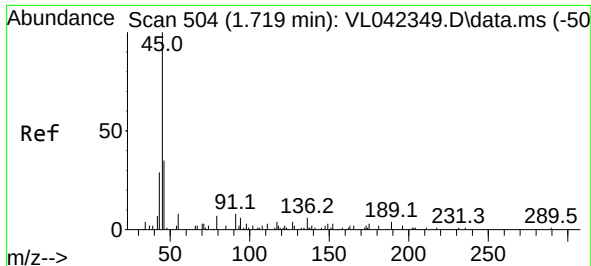


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.071 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

Tgt Ion:101 Resp: 1263  
 Ion Ratio Lower Upper  
 101 100  
 151 93.0 57.0 85.6#



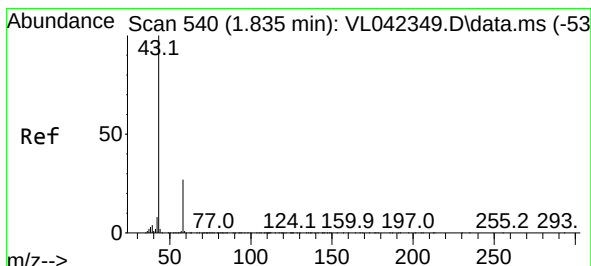
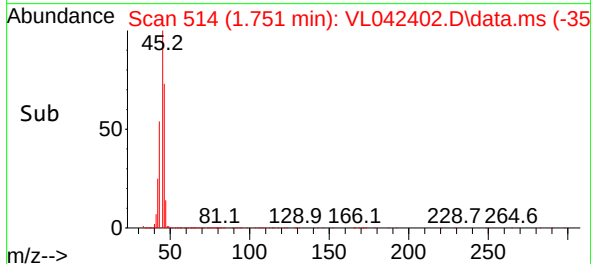
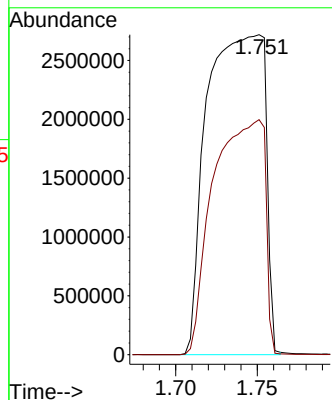
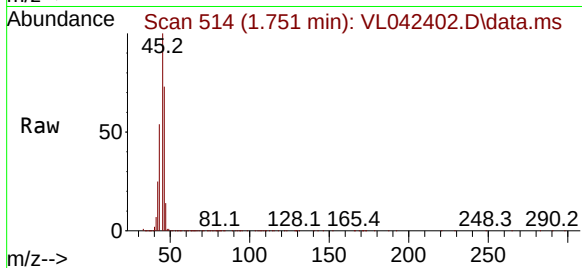




#13  
Ethanol  
Concen: 4256.821 ppbv  
RT: 1.751 min Scan# 514  
Delta R.T. 0.032 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

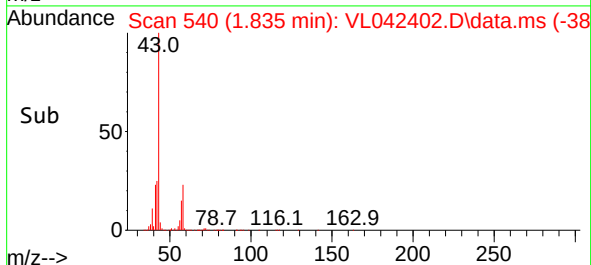
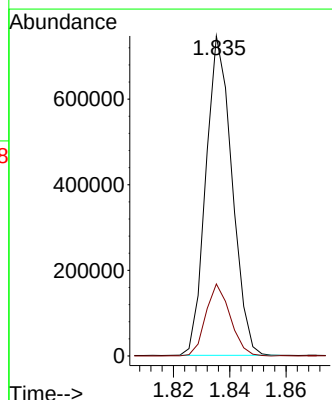
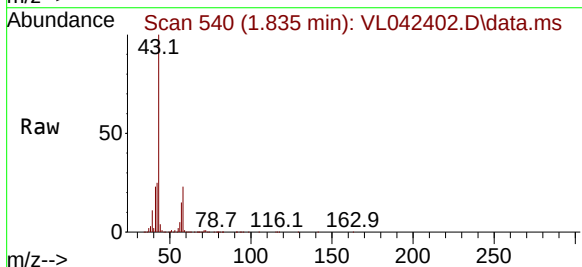
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

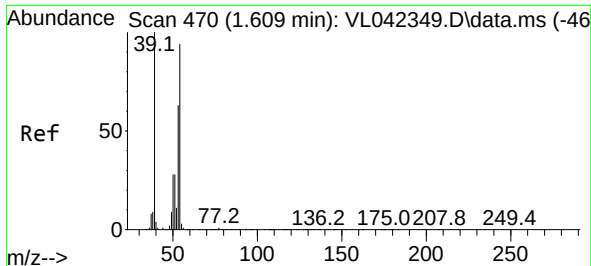
Tgt Ion: 45 Resp: 6709644  
Ion Ratio Lower Upper  
45 100  
46 65.6 21.9 87.7



#15  
Acetone  
Concen: 22.688 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 43 Resp: 480705  
Ion Ratio Lower Upper  
43 100  
58 21.3 22.4 33.6#

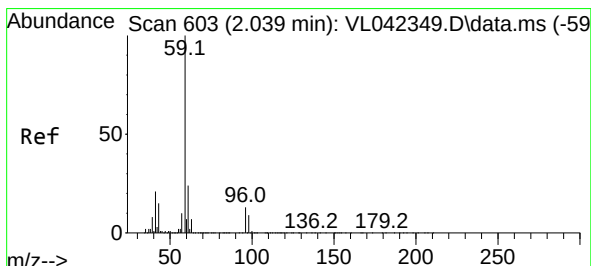
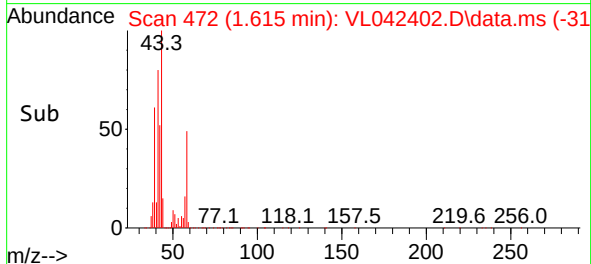
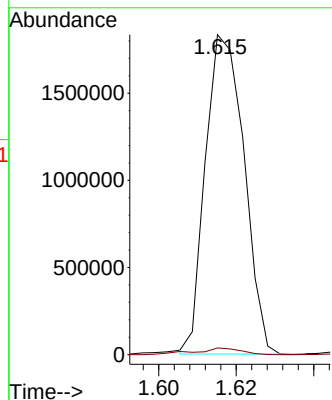
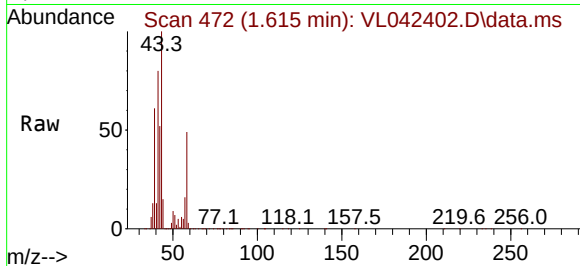




#16  
1,3-Butadiene  
Concen: 125.184 ppbv  
RT: 1.615 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

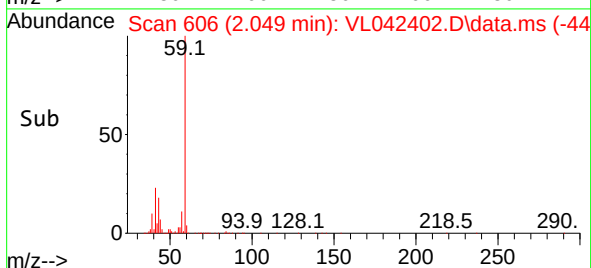
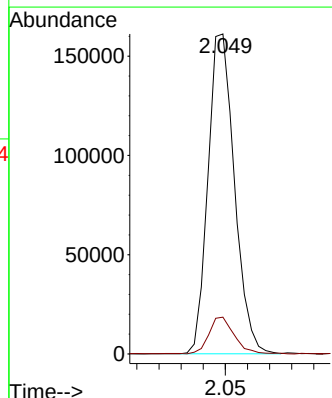
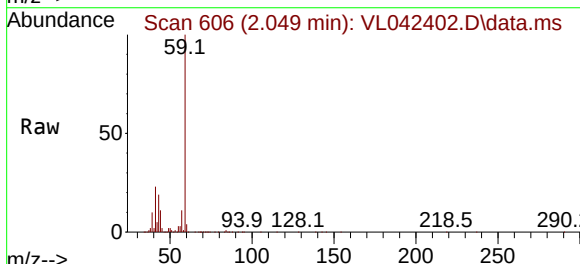
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

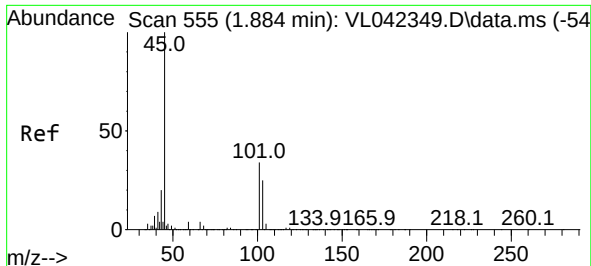
Tgt Ion: 39 Resp: 1268613  
Ion Ratio Lower Upper  
39 100  
54 2.7 64.9 97.3#



#17  
tert-Butyl alcohol  
Concen: 5.104 ppbv  
RT: 2.049 min Scan# 606  
Delta R.T. 0.010 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 59 Resp: 134017  
Ion Ratio Lower Upper  
59 100  
57 11.1 8.7 13.1

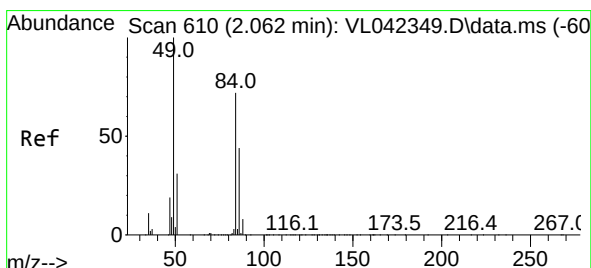
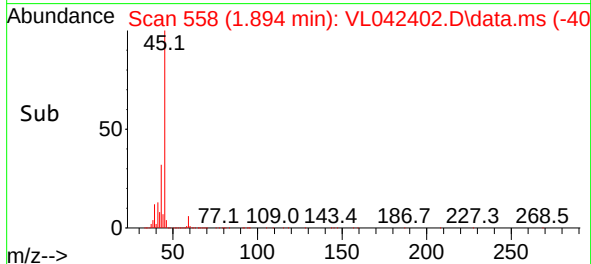
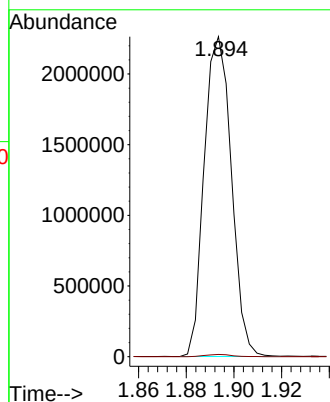
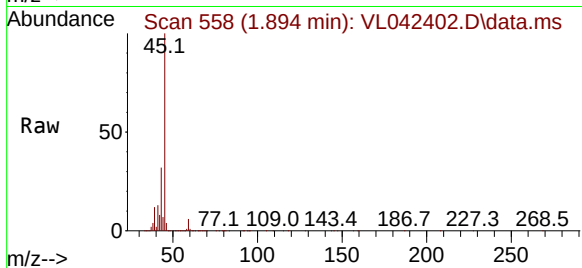




#19  
Isopropyl Alcohol  
Concen: 152.706 ppbv  
RT: 1.894 min Scan# 51  
Delta R.T. 0.010 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

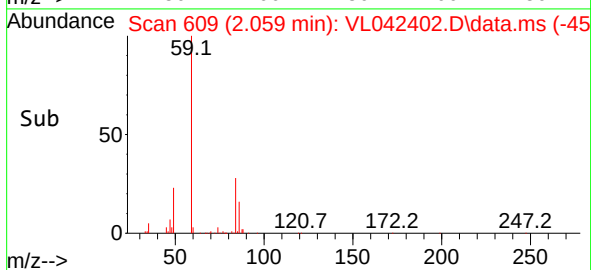
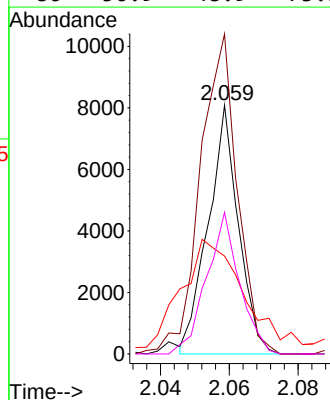
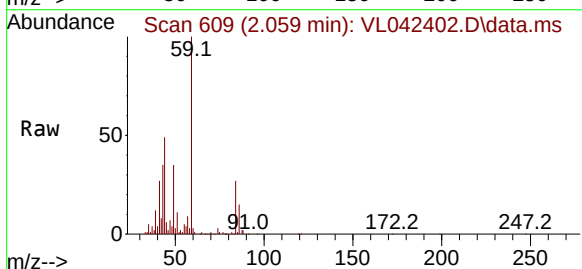
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

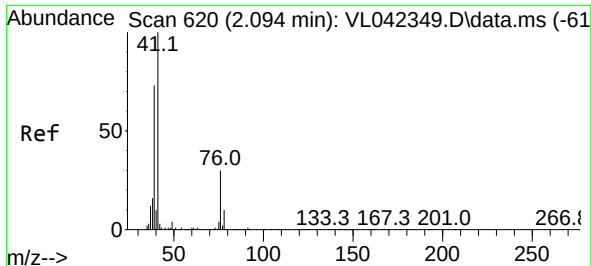
Tgt Ion: 45 Resp: 1797369  
Ion Ratio Lower Upper  
45 100  
58 5.7 34.5 51.7#



#20  
Methylene Chloride  
Concen: 0.598 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 84 Resp: 4958  
Ion Ratio Lower Upper  
84 100  
49 128.6 111.6 167.4  
51 33.7 35.1 52.7#  
86 56.9 48.9 73.3

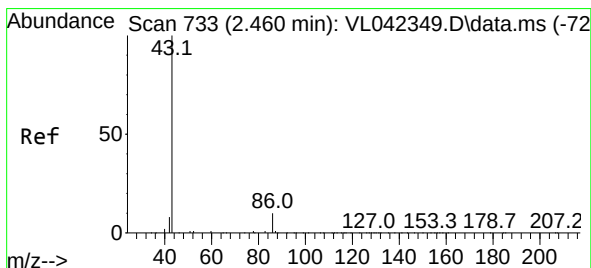
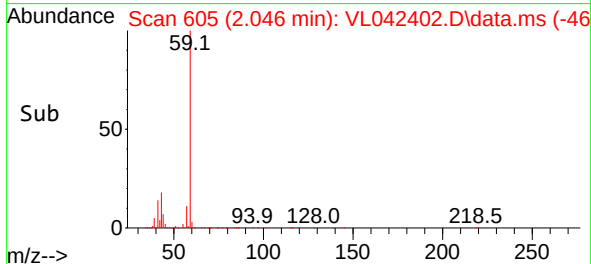
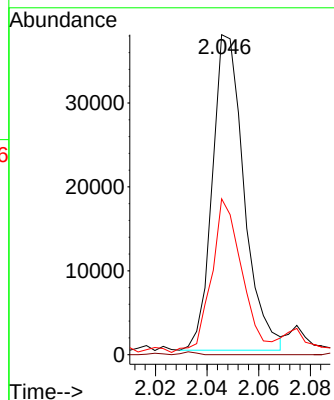
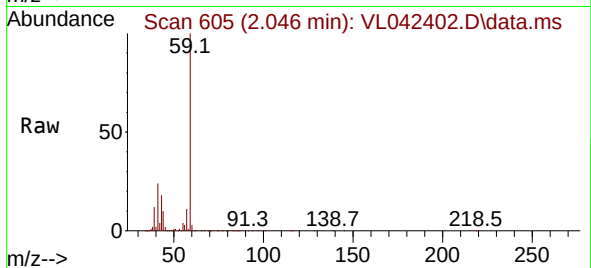




#21  
 Allyl Chloride  
 Concen: 2.193 ppbv  
 RT: 2.046 min Scan# 605  
 Delta R.T. -0.049 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

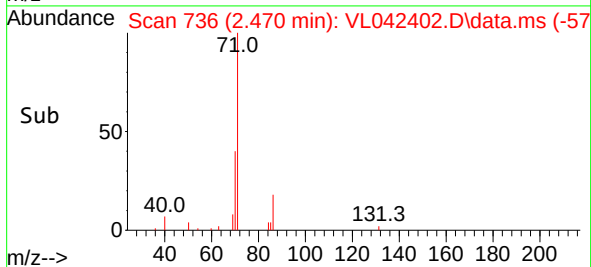
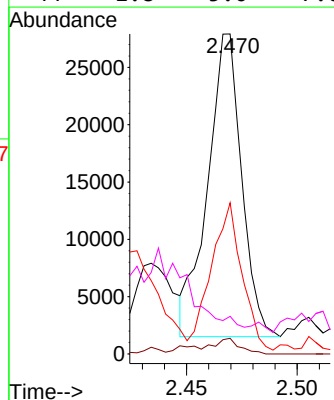
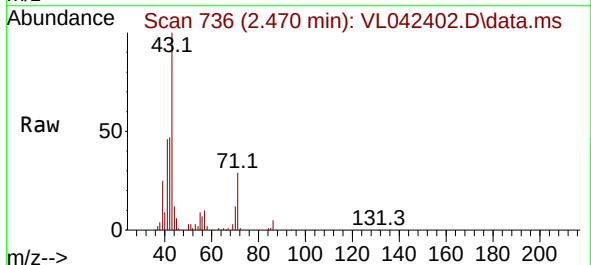
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

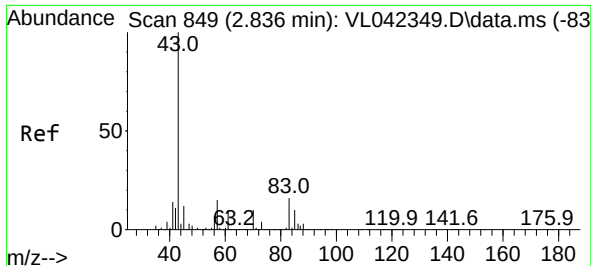
Tgt Ion: 41 Resp: 32076  
 Ion Ratio Lower Upper  
 41 100  
 76 0.6 24.8 37.2#  
 39 0.0 60.6 90.8#



#23  
 Vinyl Acetate  
 Concen: 3.290 ppbv  
 RT: 2.470 min Scan# 736  
 Delta R.T. 0.010 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

Tgt Ion: 43 Resp: 28217  
 Ion Ratio Lower Upper  
 43 100  
 86 5.2 6.5 9.7#  
 42 47.0 7.8 11.8#  
 44 1.8 5.0 7.6#

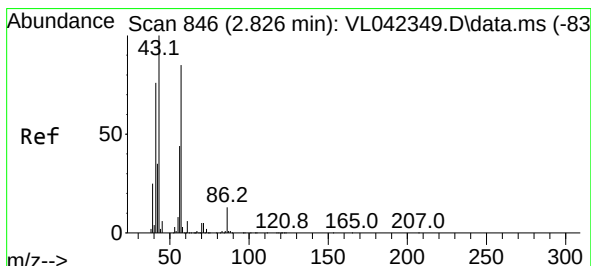
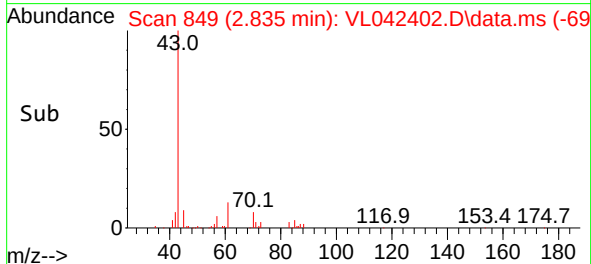
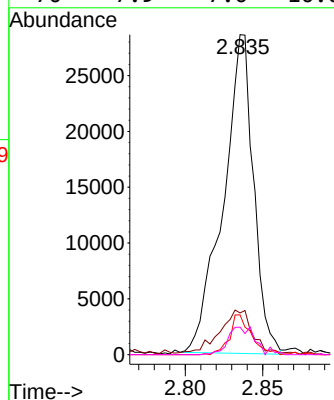
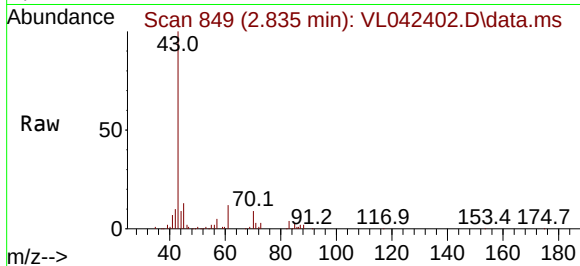




#25  
Ethyl Acetate  
Concen: 0.747 ppbv  
RT: 2.835 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

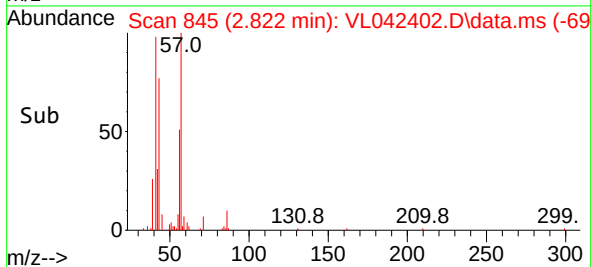
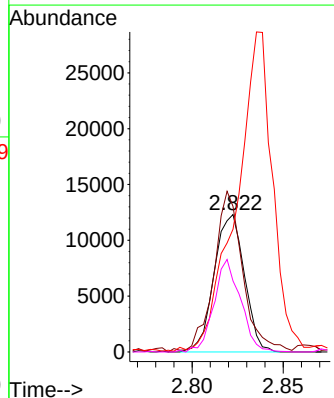
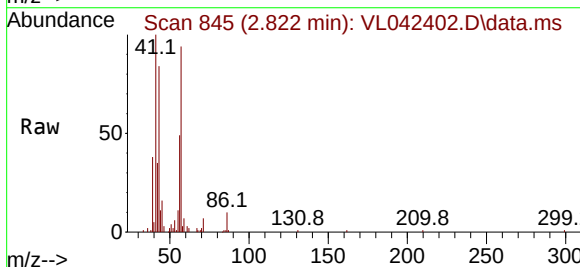
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

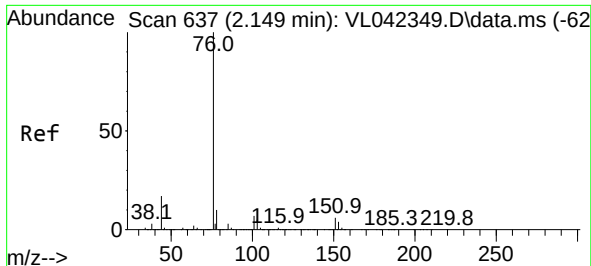
Tgt Ion: 43 Resp: 39015  
Ion Ratio Lower Upper  
43 100  
45 15.2 8.3 12.5#  
61 9.2 7.3 10.9  
70 7.9 7.0 10.6



#26  
Hexane  
Concen: 0.673 ppbv  
RT: 2.822 min Scan# 845  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 57 Resp: 14222  
Ion Ratio Lower Upper  
57 100  
41 112.1 77.9 116.9  
43 281.7 208.4 312.6  
56 59.5 43.1 64.7

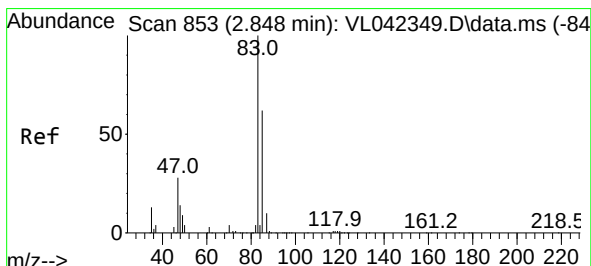
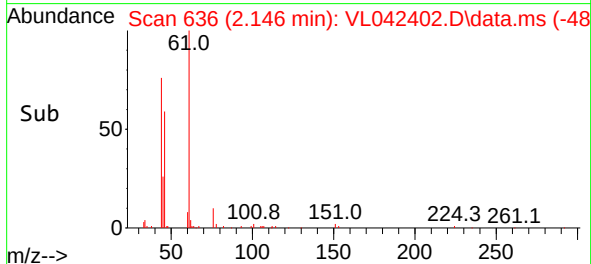
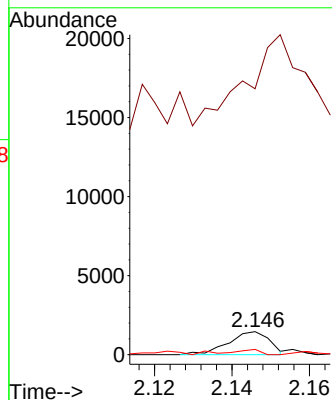
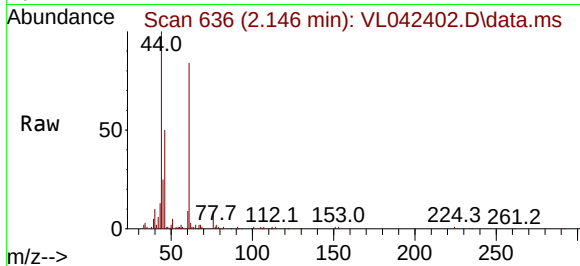




#27  
Carbon Disulfide  
Concen: 0.048 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

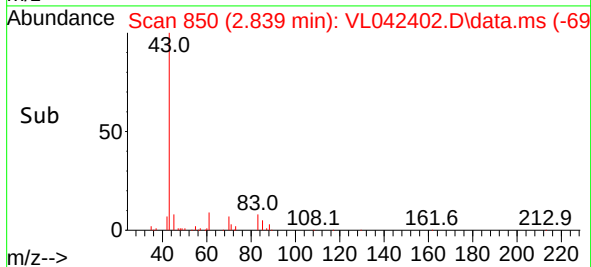
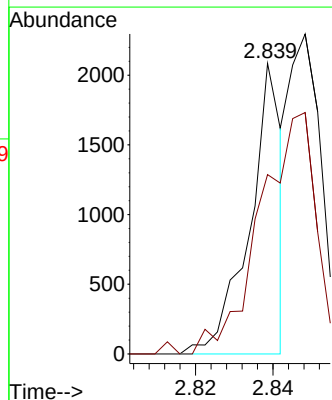
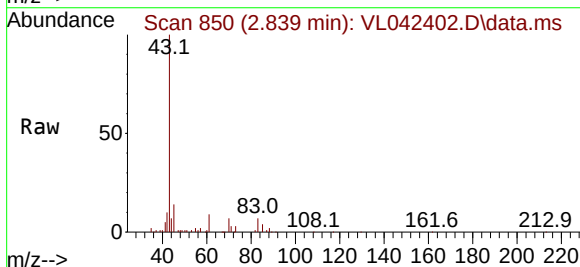
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

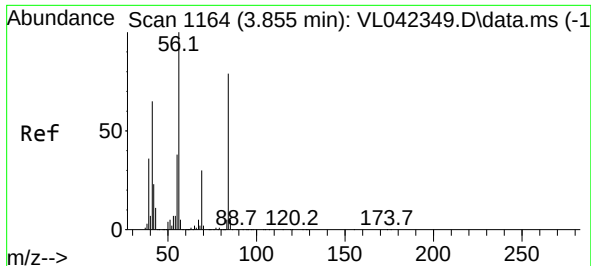
Tgt Ion: 76 Resp: 1080  
Ion Ratio Lower Upper  
76 100  
44 0.0 15.5 23.3#  
78 26.7 9.3 13.9#



#29  
Chloroform  
Concen: 0.040 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. -0.010 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 83 Resp: 1205  
Ion Ratio Lower Upper  
83 100  
85 61.7 50.0 75.0

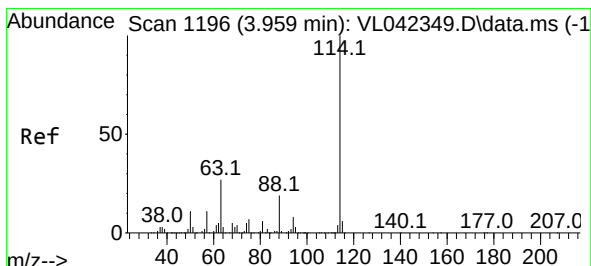
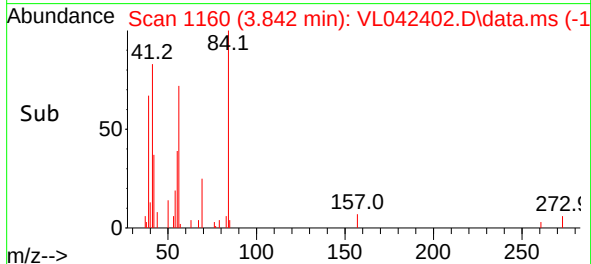
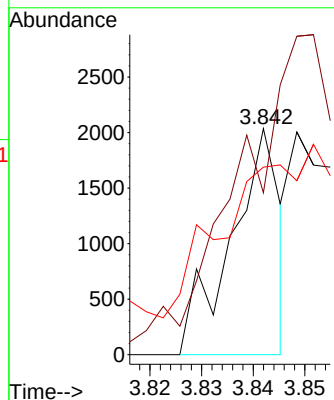
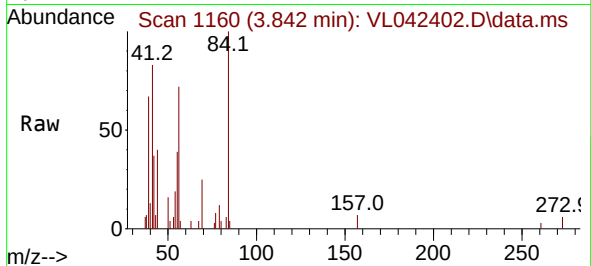




#30  
Cyclohexane  
Concen: 0.078 ppbv  
RT: 3.842 min Scan# 1160  
Delta R.T. -0.013 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

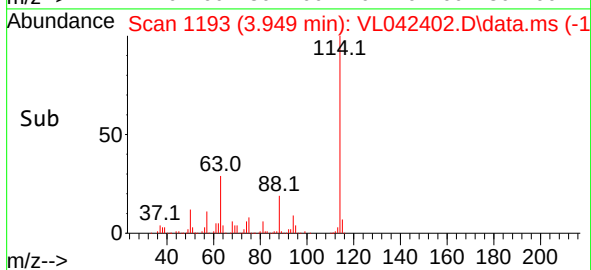
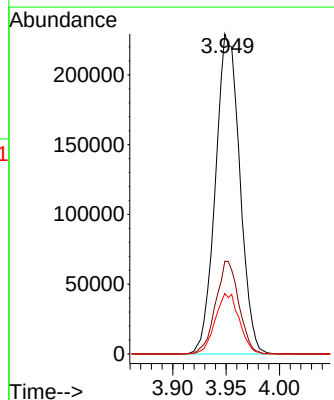
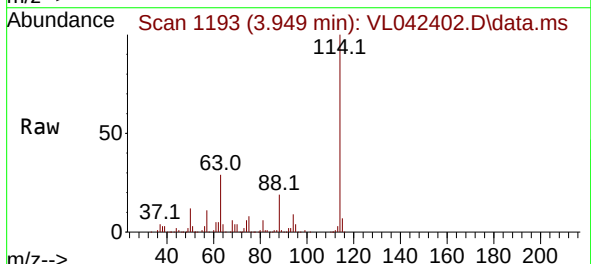
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

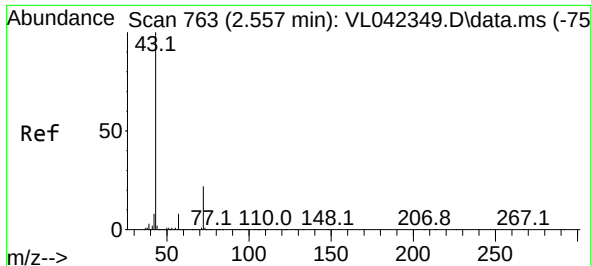
Tgt Ion: 84 Resp: 1338  
Ion Ratio Lower Upper  
84 100  
56 0.0 101.0 151.4#  
41 0.0 67.4 101.0#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.949 min Scan# 1193  
Delta R.T. -0.010 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 114 Resp: 363256  
Ion Ratio Lower Upper  
114 100  
63 27.7 21.8 32.6  
88 18.7 15.5 23.3

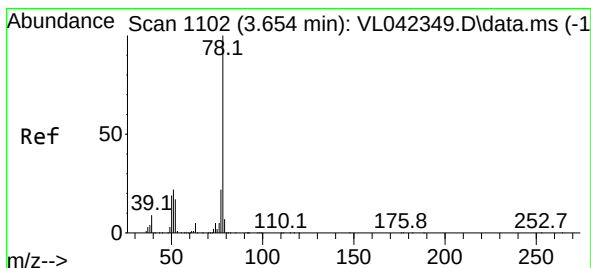
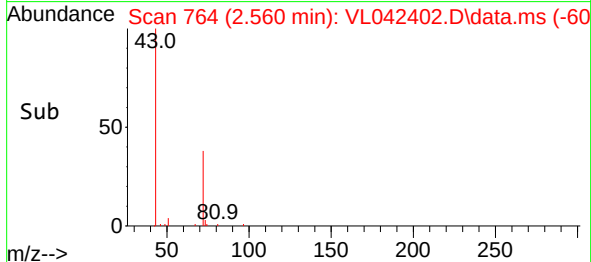
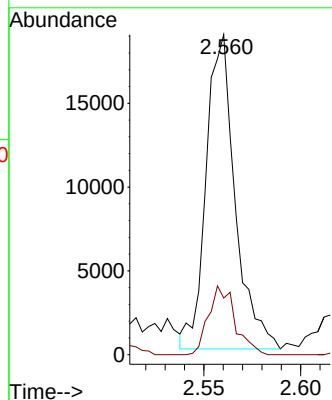
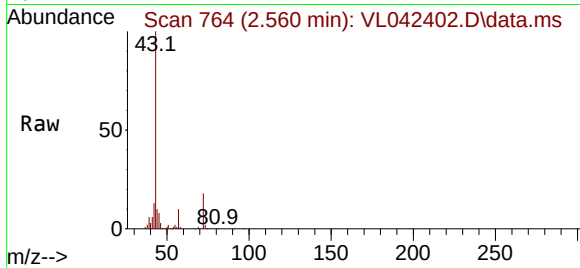




#34  
2-Butanone  
Concen: 0.681 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

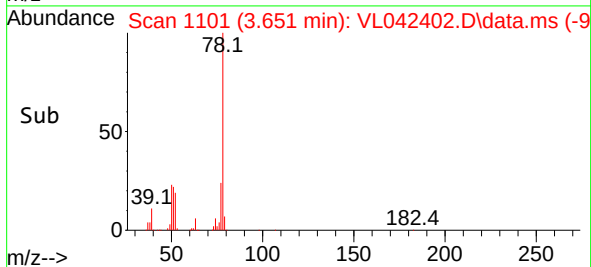
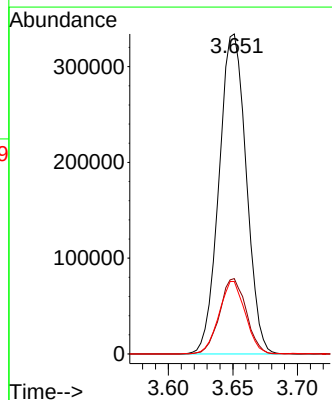
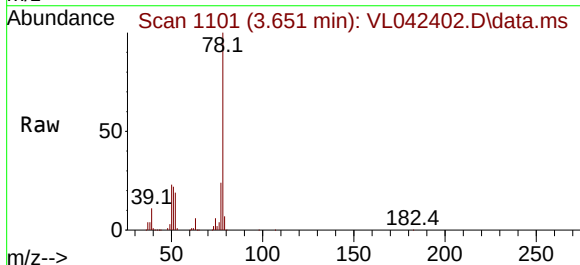
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion: 43 Resp: 19570  
Ion Ratio Lower Upper  
43 100  
72 20.0 18.2 27.2

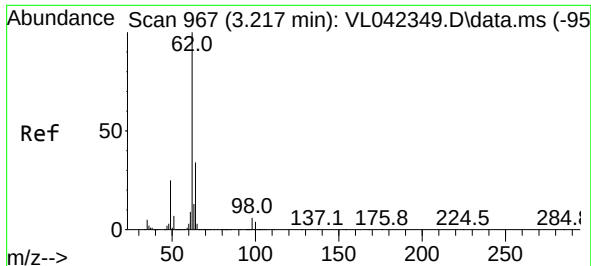


#36  
Benzene  
Concen: 12.484 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 78 Resp: 489138  
Ion Ratio Lower Upper  
78 100  
77 23.5 17.4 26.0  
50 22.6 15.5 23.3







#37

1,2-Dichloroethane

Concen: 0.070 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

Instrument :

MSVOA\_L

ClientSampleId :

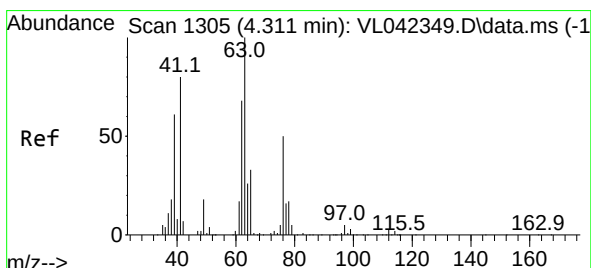
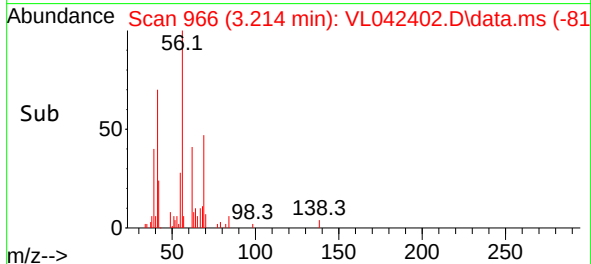
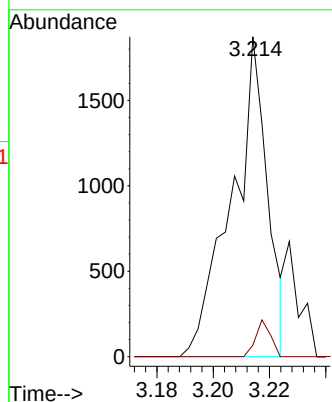
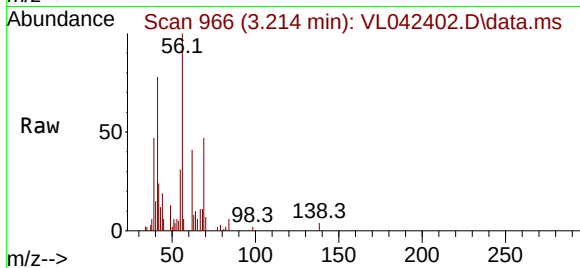
IA1

Tgt Ion: 62 Resp: 1641

Ion Ratio Lower Upper

62 100

98 4.8 5.1 7.7#



#39

1,2-Dichloropropane

Concen: 6.886 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.363 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

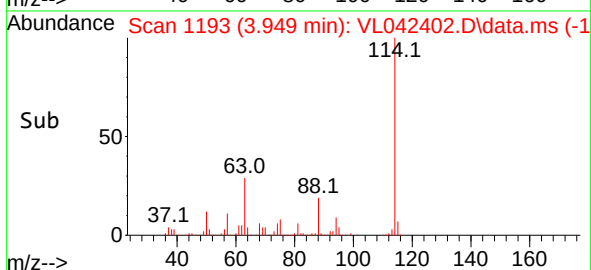
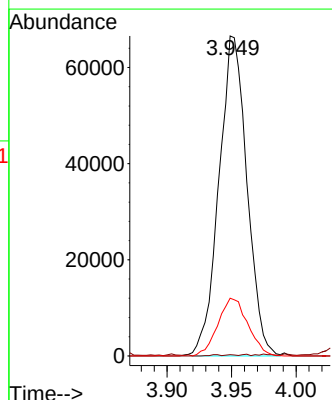
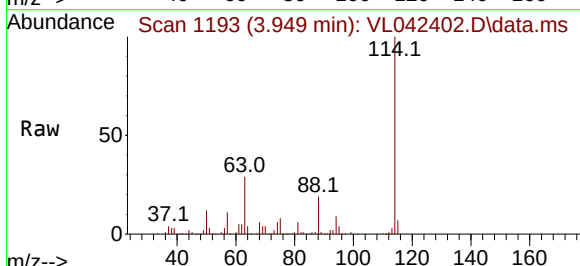
Tgt Ion: 63 Resp: 100545

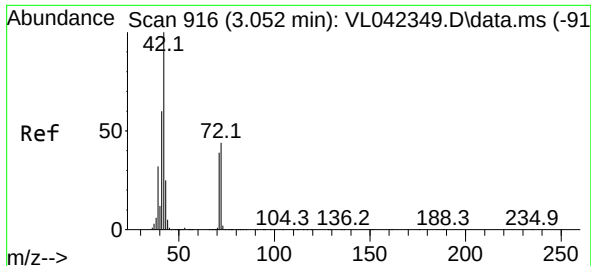
Ion Ratio Lower Upper

63 100

41 0.2 64.2 96.2#

62 18.1 54.3 81.5#

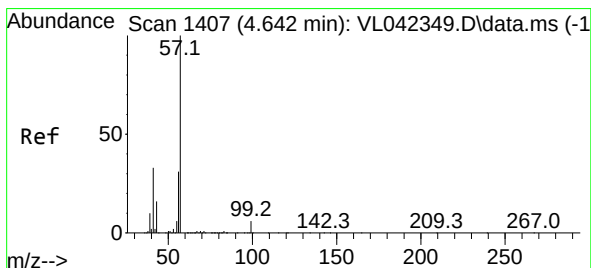
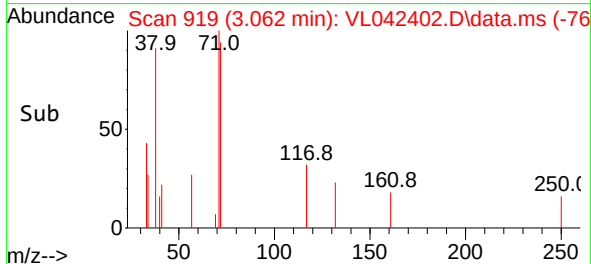
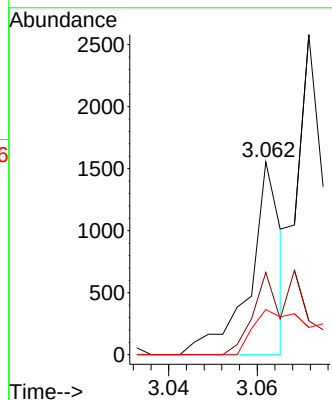
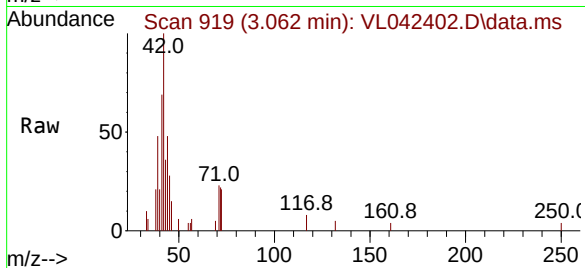




#41  
Tetrahydrofuran  
Concen: 0.045 ppbv  
RT: 3.062 min Scan# 916  
Delta R.T. 0.010 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

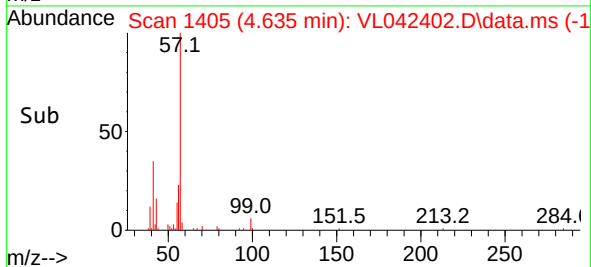
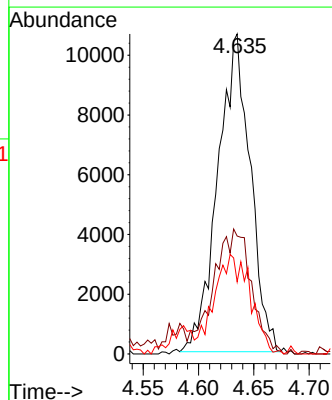
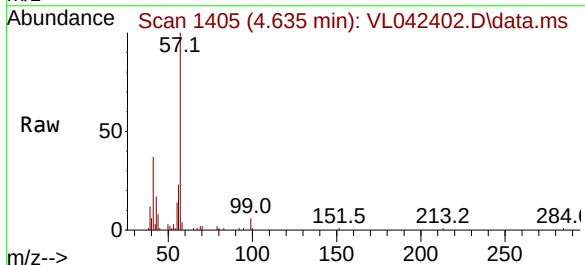
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

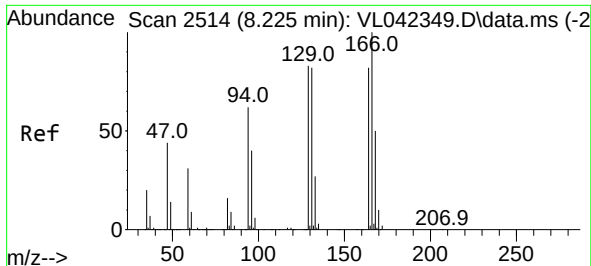
Tgt Ion: 42 Resp: 748  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.3 48.5#  
71 52.8 31.4 47.2#



#44  
2,2,4-Trimethylpentane  
Concen: 0.320 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.007 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 57 Resp: 21675  
Ion Ratio Lower Upper  
57 100  
41 53.1 27.2 40.8#  
56 41.0 25.7 38.5#

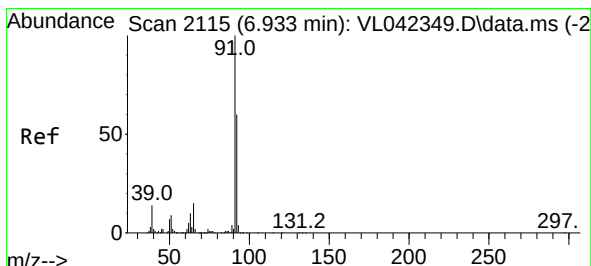
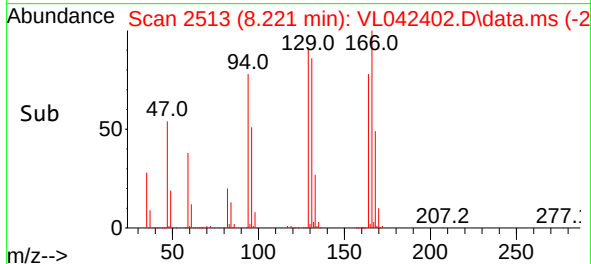
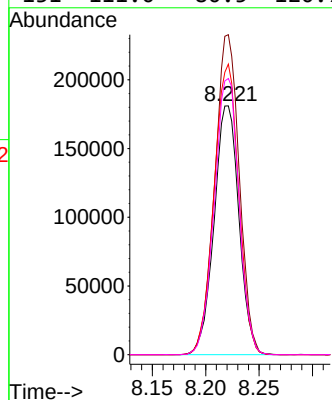
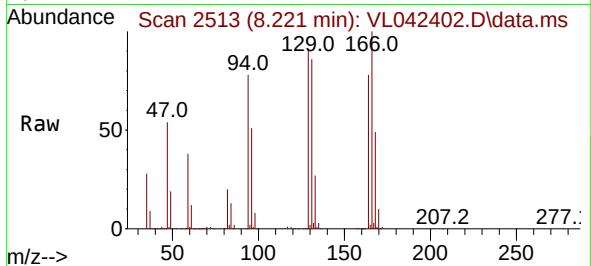




#52  
Tetrachloroethene  
Concen: 19.319 ppbv  
RT: 8.221 min Scan# 2112  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

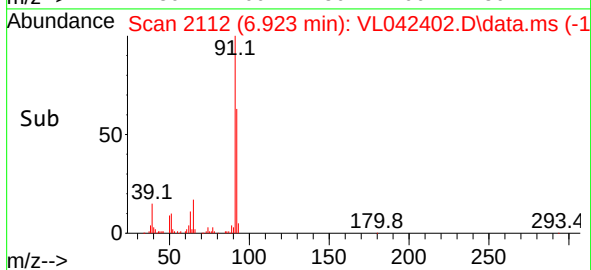
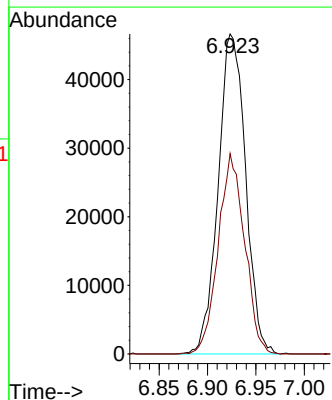
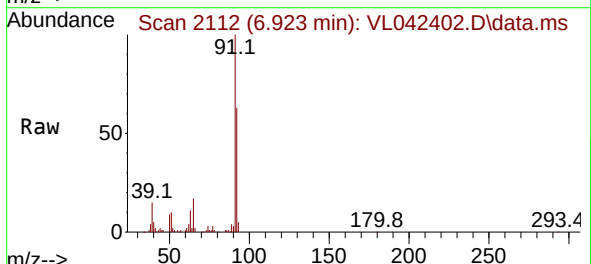
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

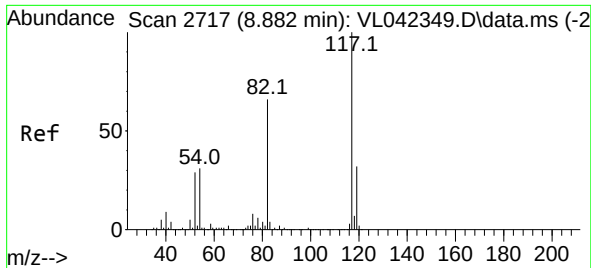
Tgt Ion:164 Resp: 292573  
Ion Ratio Lower Upper  
164 100  
166 128.6 98.2 147.2  
129 116.8 81.8 122.8  
131 111.0 80.5 120.7



#53  
Toluene  
Concen: 1.954 ppbv  
RT: 6.923 min Scan# 2112  
Delta R.T. -0.010 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 91 Resp: 91866  
Ion Ratio Lower Upper  
91 100  
92 60.3 48.2 72.4

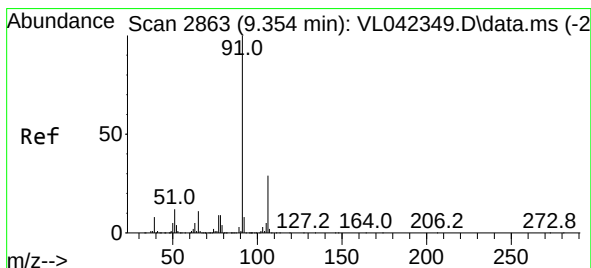
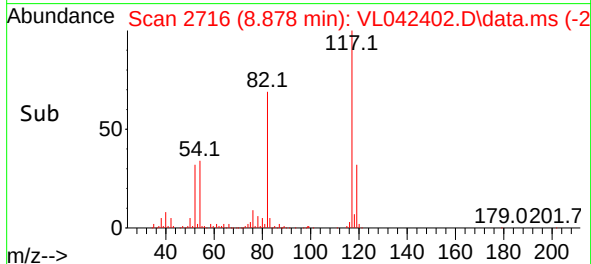
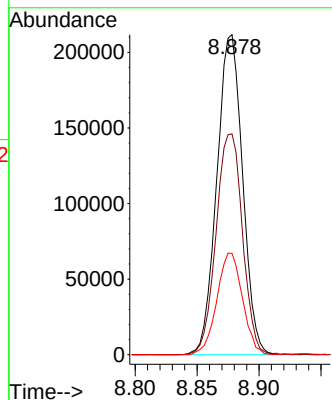
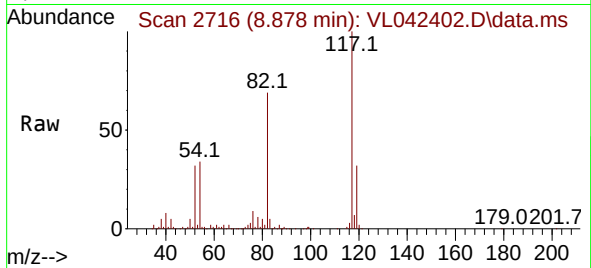




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

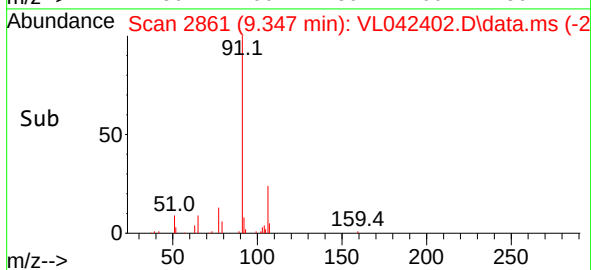
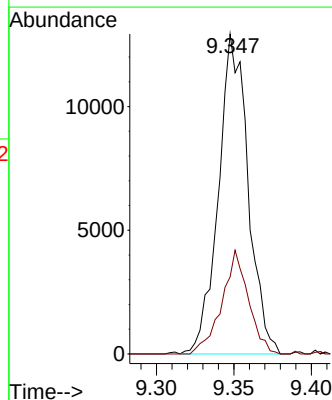
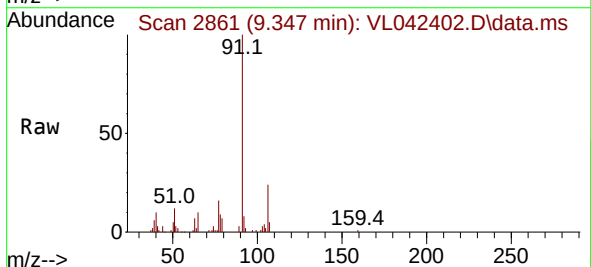
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

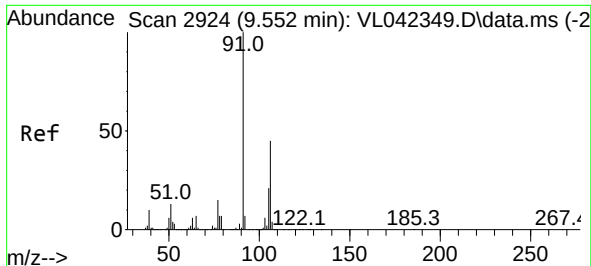
Tgt Ion:117 Resp: 306838  
Ion Ratio Lower Upper  
117 100  
82 70.7 57.8 86.6  
119 31.6 25.2 37.8



#58  
Ethyl Benzene  
Concen: 0.283 ppbv  
RT: 9.347 min Scan# 2861  
Delta R.T. -0.007 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 91 Resp: 17207  
Ion Ratio Lower Upper  
91 100  
106 24.1 23.0 34.4





#59

m/p-Xylene

Concen: 0.238 ppbv

RT: 9.542 min Scan# 2924

Delta R.T. -0.010 min

Lab File: VL042402.D

Acq: 21 Apr 2025 13:38

Instrument :

MSVOA\_L

ClientSampleId :

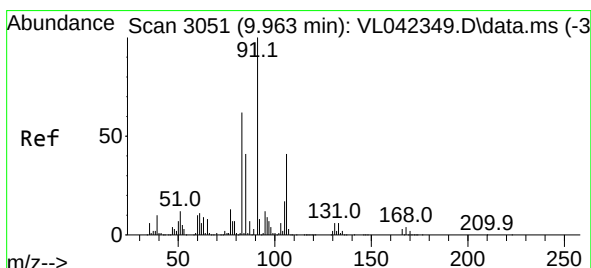
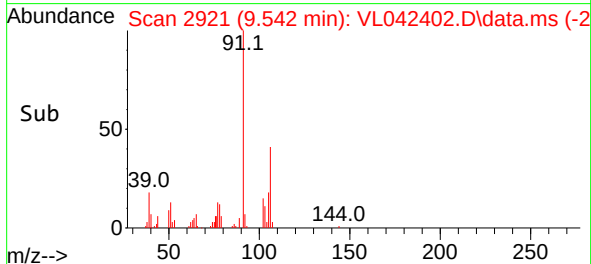
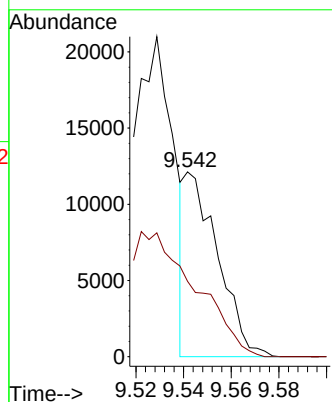
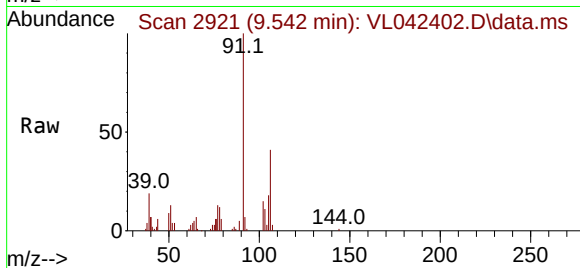
IA1

Tgt Ion: 91 Resp: 11673

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.320 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042402.D

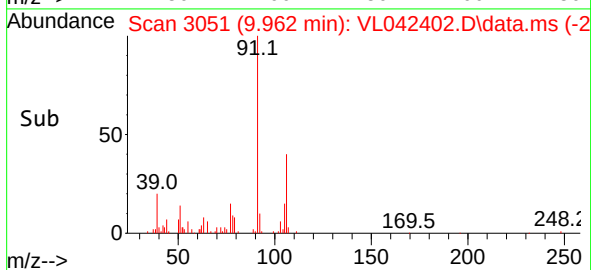
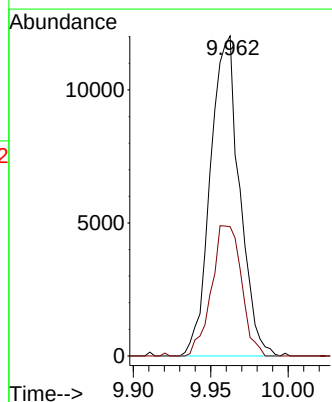
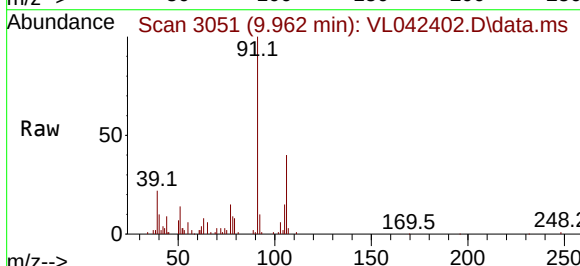
Acq: 21 Apr 2025 13:38

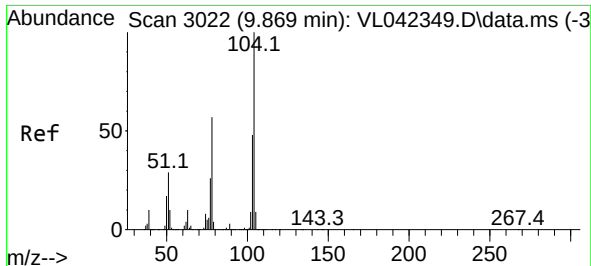
Tgt Ion: 91 Resp: 15784

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

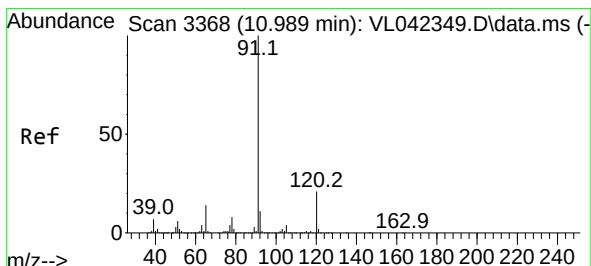
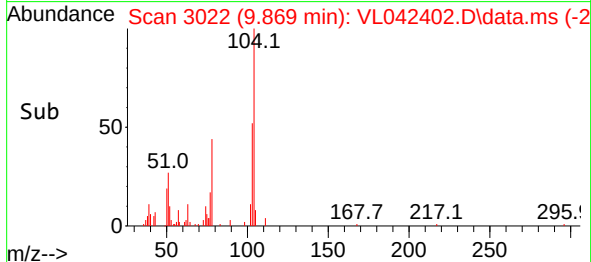
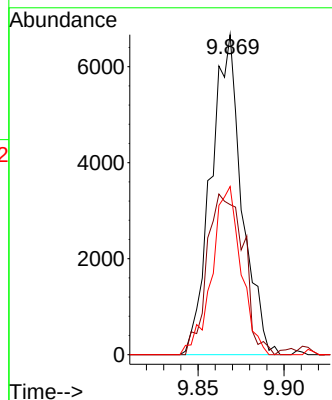
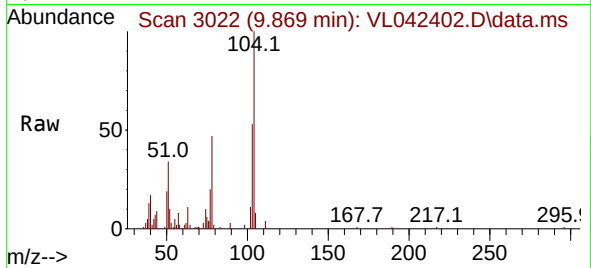




#61  
Styrene  
Concen: 0.355 ppbv  
RT: 9.869 min Scan# 3022  
Delta R.T. -0.000 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

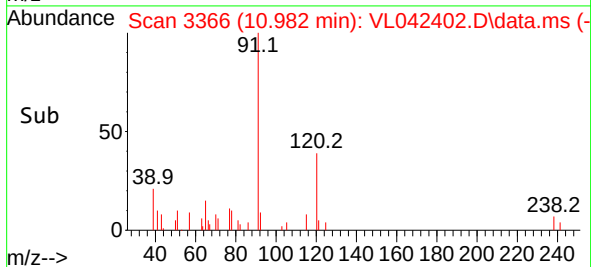
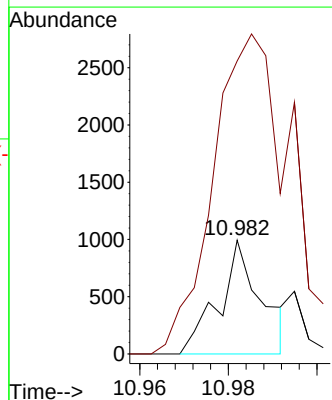
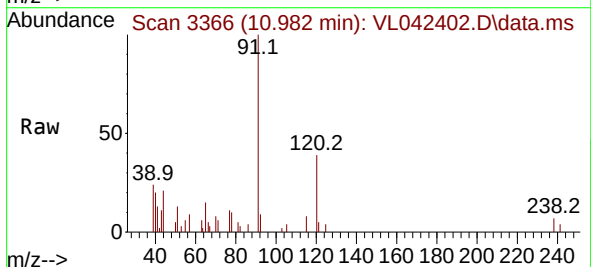
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

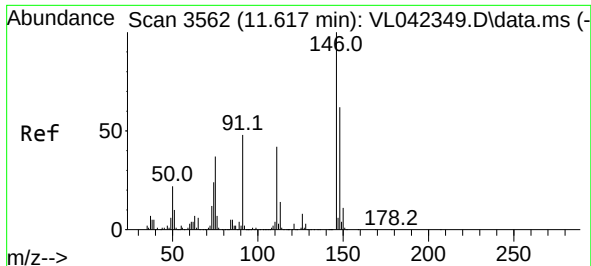
Tgt Ion:104 Resp: 8361  
Ion Ratio Lower Upper  
104 100  
78 61.2 44.6 66.8  
103 49.2 37.4 56.0



#64  
n-propylbenzene  
Concen: 0.036 ppbv  
RT: 10.982 min Scan# 3366  
Delta R.T. -0.007 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion:120 Resp: 651  
Ion Ratio Lower Upper  
120 100  
91 534.1 392.4 588.6

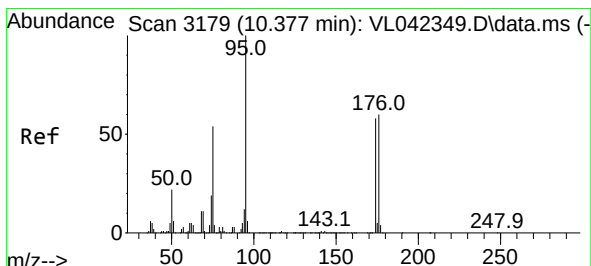
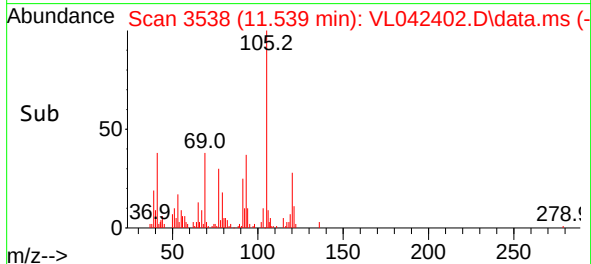
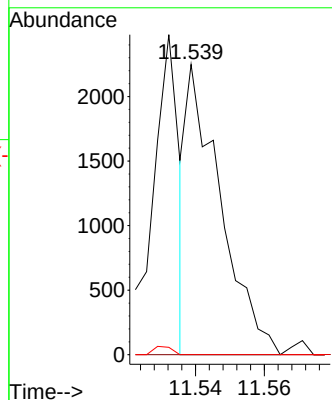
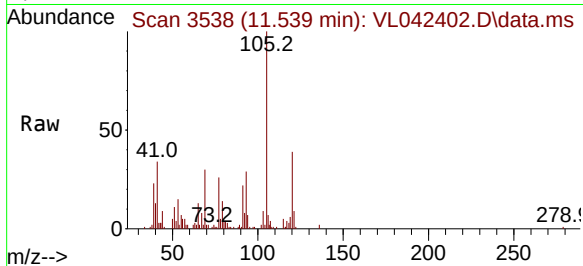




#66  
Benzyl Chloride  
Concen: 0.211 ppbv  
RT: 11.539 min Scan# 31538  
Delta R.T. -0.078 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

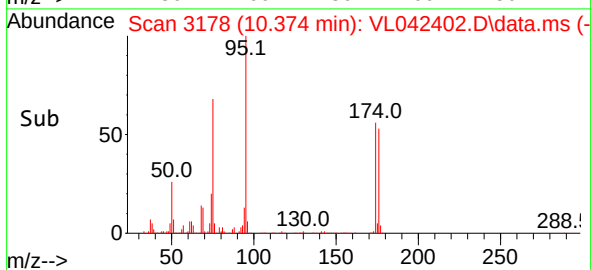
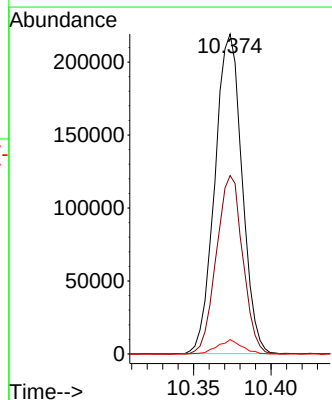
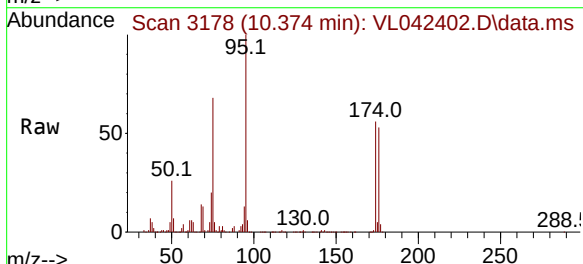
Instrument :  
MSVOA\_1  
ClientSampleId :  
1A1

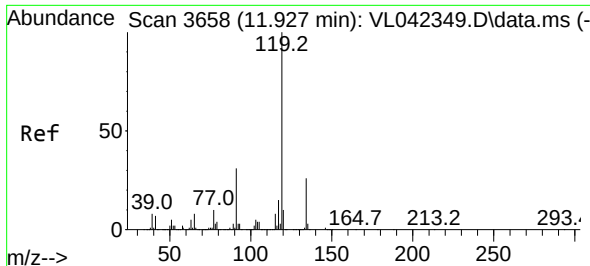
Tgt Ion: 91 Resp: 1544  
Ion Ratio Lower Upper  
91 100  
126 0.0 11.8 17.6#  
128 0.0 4.5 6.7#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.575 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion: 95 Resp: 266636  
Ion Ratio Lower Upper  
95 100  
174 54.2 48.5 72.7  
175 4.0 3.7 5.5

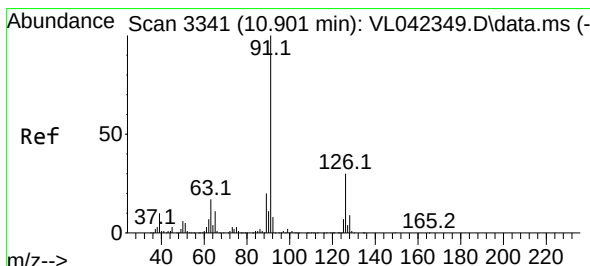
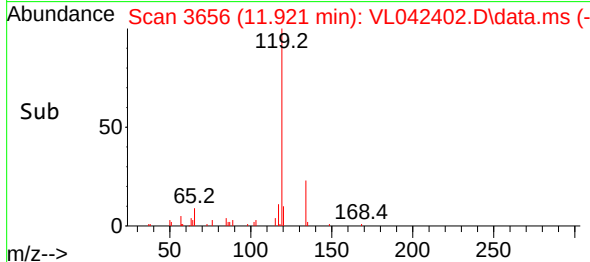
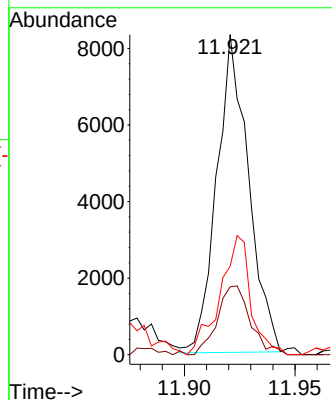
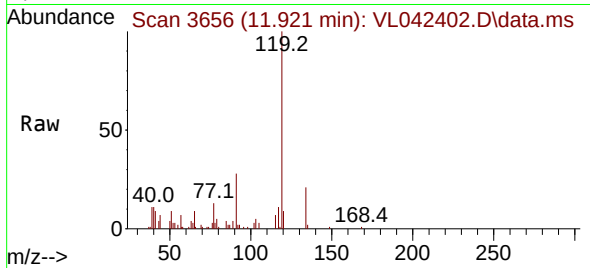




#69  
 p-Isopropyltoluene  
 Concen: 0.103 ppbv  
 RT: 11.921 min Scan# 30  
 Delta R.T. -0.007 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

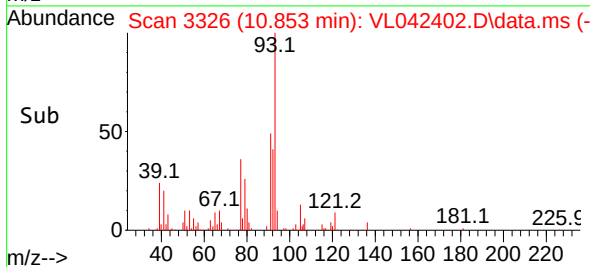
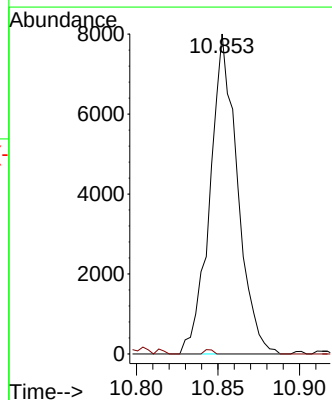
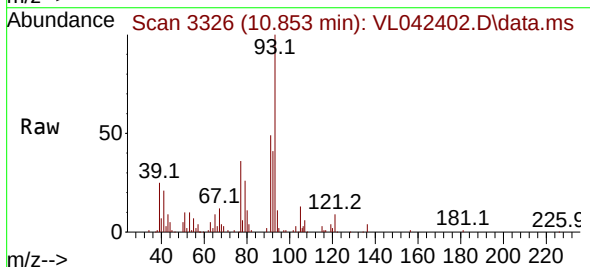
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Tgt Ion:119 Resp: 8280  
 Ion Ratio Lower Upper  
 119 100  
 134 24.2 20.0 30.0  
 91 33.3 24.4 36.6

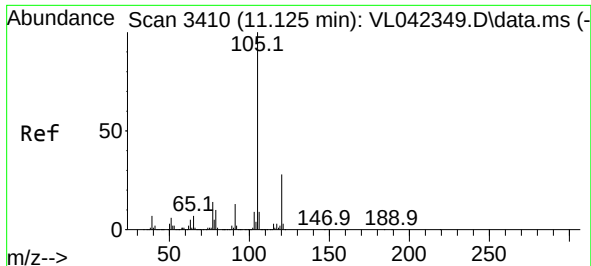


#71  
 2-Chlorotoluene  
 Concen: 0.165 ppbv  
 RT: 10.853 min Scan# 3326  
 Delta R.T. -0.049 min  
 Lab File: VL042402.D  
 Acq: 21 Apr 2025 13:38

Tgt Ion: 91 Resp: 9389  
 Ion Ratio Lower Upper  
 91 100  
 126 0.4 11.4 45.4#



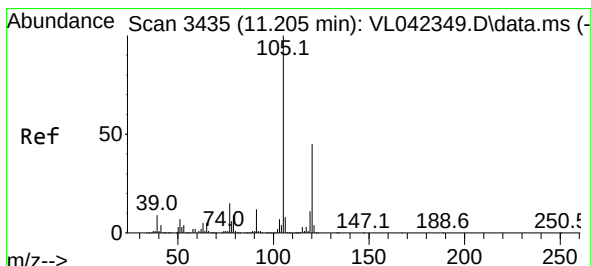
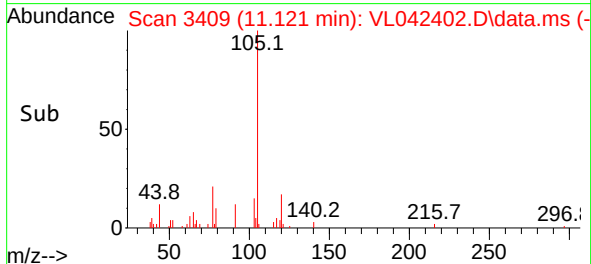
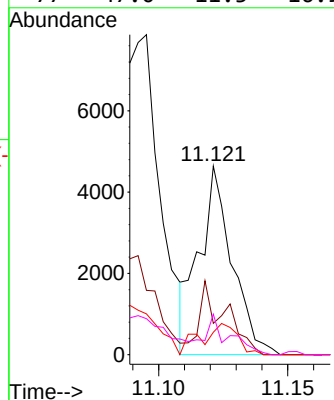
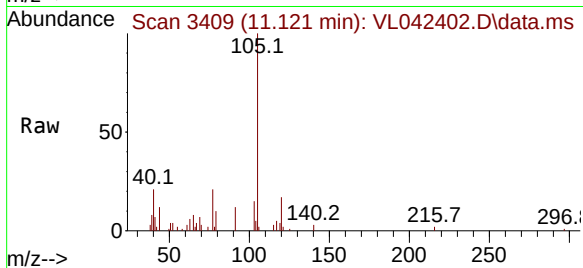




#72  
4-Ethyltoluene  
Concen: 0.068 ppbv  
RT: 11.121 min Scan# 3410  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

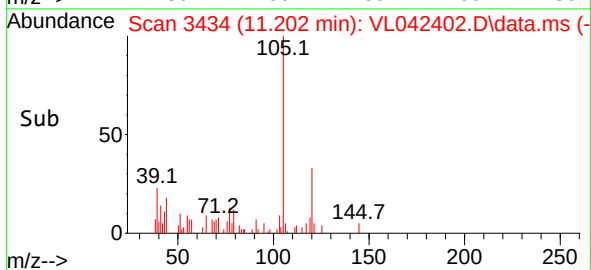
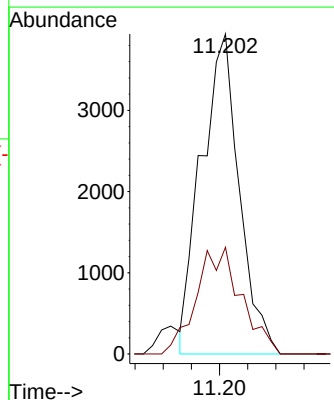
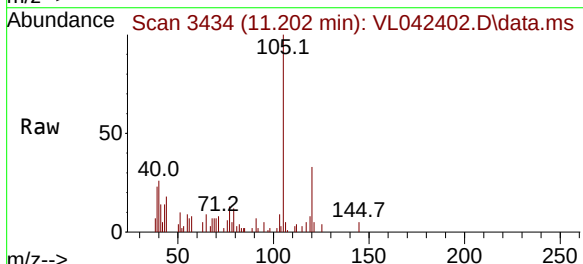
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

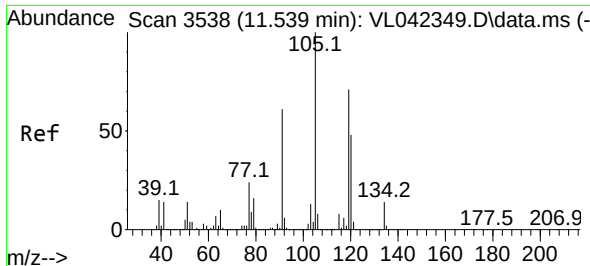
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 4119  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 27.8  | 23.2  | 34.8  |
| 91       | 0.0   | 10.4  | 15.6# |
| 77       | 47.0  | 11.3  | 16.9# |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.069 ppbv  
RT: 11.202 min Scan# 3434  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 3685  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 33.4  | 35.6  | 53.4# |

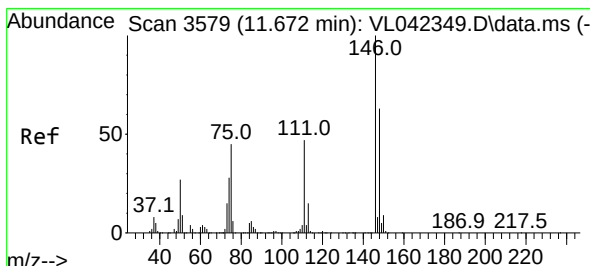
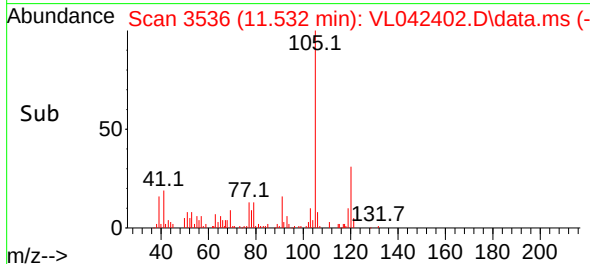
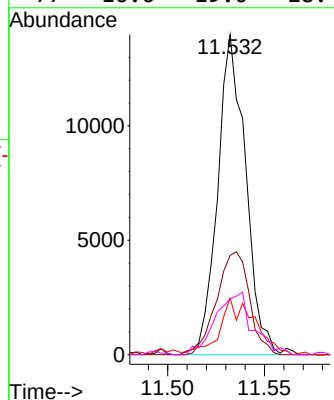
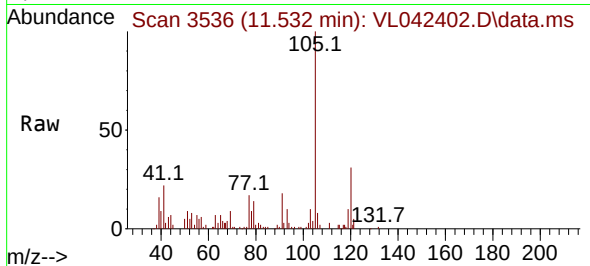




#74  
1,2,4-Trimethylbenzene  
Concen: 0.227 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.007 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

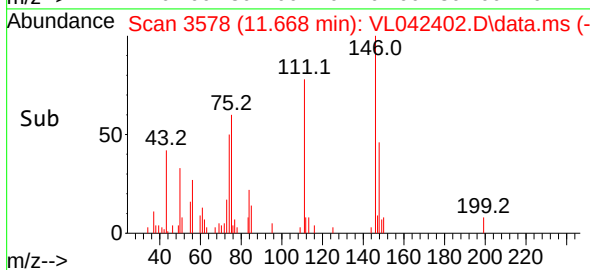
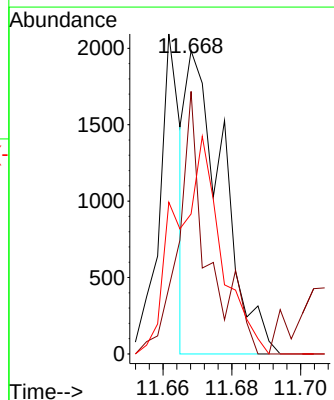
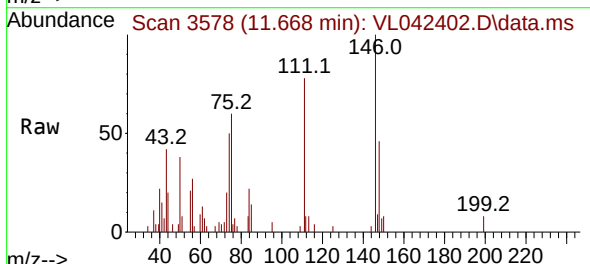
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

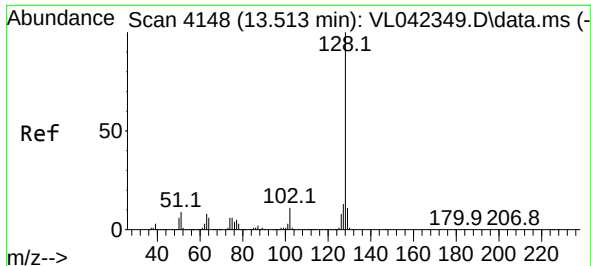
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 14087 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 33.1  | 38.1  | 57.1# |
| 91       | 20.1  | 48.8  | 73.2# |
| 77       | 16.6  | 19.0  | 28.4# |



#76  
1,4-Dichlorobenzene  
Concen: 0.045 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 1454  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 91.2  | 24.2  | 72.6# |
| 148      | 88.3  | 32.1  | 96.5  |

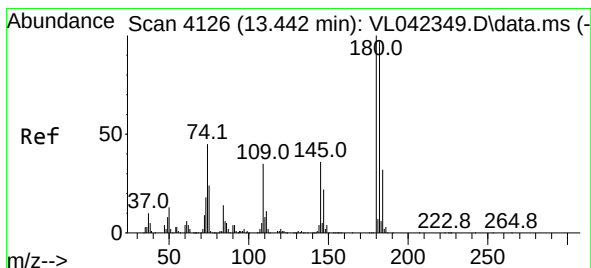
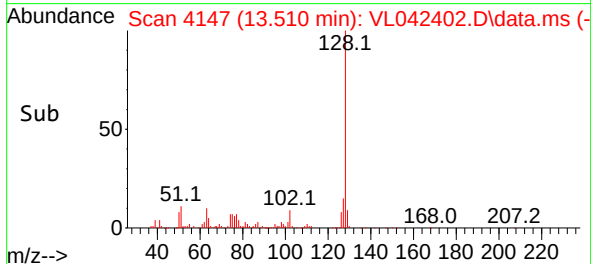
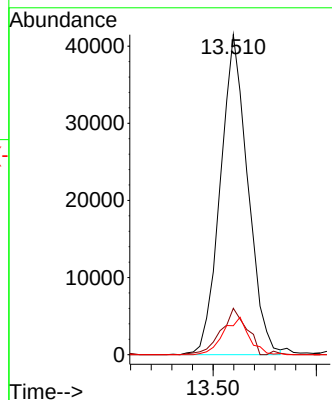
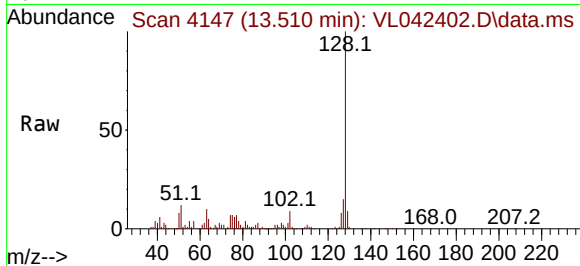




#79  
Naphthalene  
Concen: 0.515 ppbv  
RT: 13.510 min Scan# 4148  
Delta R.T. -0.003 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion:128 Resp: 38319  
Ion Ratio Lower Upper  
128 100  
127 14.5 10.6 15.8  
129 9.1 8.6 12.8



#81  
1,2,4-Trichlorobenzene  
Concen: 0.574 ppbv  
RT: 13.384 min Scan# 4108  
Delta R.T. -0.058 min  
Lab File: VL042402.D  
Acq: 21 Apr 2025 13:38

Tgt Ion:180 Resp: 18335  
Ion Ratio Lower Upper  
180 100  
182 9.3 76.8 115.2#  
184 0.5 24.6 36.8#

