

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
 Data File : VL042945.D  
 Acq On : 18 Sep 2025 14:37  
 Operator : SY/MD  
 Sample : Q3111-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Sep 19 01:25:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Sep 18 02:57:46 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 171978   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 434311   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 375912   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 294177   | 10.012   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.100% |

| Target Compounds              |        |     |         |         |        | Qvalue |
|-------------------------------|--------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 11604   | 0.472   | ppbv   | 93     |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 28461   | 1.100   | ppbv # | 78     |
| 4) Chloromethane              | 1.534  | 50  | 5930    | 0.601   | ppbv   | 92     |
| 6) Bromomethane               | 1.670  | 94  | 269     | 0.083   | ppbv # | 39     |
| 9) Propene                    | 1.560  | 41  | 54171   | 5.735   | ppbv   | 96     |
| 10) Heptane                   | 4.985  | 43  | 18926   | 0.809   | ppbv # | 28     |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101 | 1192    | 0.063   | ppbv   | 84     |
| 13) Ethanol                   | 1.725  | 45  | 522414  | 542.469 | ppbv   | 94     |
| 15) Acetone                   | 1.835  | 43  | 3201270 | 151.550 | ppbv # | 71     |
| 16) 1,3-Butadiene             | 1.622  | 39  | 60980   | 6.901   | ppbv # | 14     |
| 17) tert-Butyl alcohol        | 2.046  | 59  | 5120    | 0.252   | ppbv # | 1      |
| 19) Isopropyl Alcohol         | 1.890  | 45  | 3190461 | 281.710 | ppbv # | 1      |
| 20) Methylene Chloride        | 2.065  | 84  | 19046   | 2.071   | ppbv # | 88     |
| 21) Allyl Chloride            | 2.195  | 41  | 7511    | 0.525   | ppbv # | 23     |
| 22) trans-1,2-Dichloroethene  | 2.343  | 96  | 900     | 0.096   | ppbv # | 57     |
| 23) Vinyl Acetate             | 2.476  | 43  | 119995  | 4.889   | ppbv # | 48     |
| 25) Ethyl Acetate             | 2.839  | 43  | 330462  | 7.326   | ppbv # | 94     |
| 26) Hexane                    | 2.832  | 57  | 60432   | 3.122   | ppbv # | 1      |
| 27) Carbon Disulfide          | 2.153  | 76  | 3864    | 0.162   | ppbv # | 62     |
| 28) Methyl tert-Butyl Ether   | 2.434  | 73  | 560     | 0.053   | ppbv # | 52     |
| 29) Chloroform                | 2.852  | 83  | 11080   | 0.350   | ppbv   | 90     |
| 30) Cyclohexane               | 3.861  | 84  | 5867    | 0.402   | ppbv # | 24     |
| 31) cis-1,2-Dichloroethene    | 2.839  | 61  | 36337   | 1.923   | ppbv # | 24     |
| 34) 2-Butanone                | 2.560  | 43  | 112773  | 4.006   | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.761  | 117 | 1122    | 0.036   | ppbv # | 84     |
| 36) Benzene                   | 3.661  | 78  | 31276   | 0.826   | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.224  | 62  | 14184   | 0.625   | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 3.962  | 63  | 117036  | 7.644   | ppbv # | 22     |
| 41) Tetrahydrofuran           | 3.062  | 42  | 40679   | 2.920   | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.887  | 69  | 4369    | 0.344   | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57  | 333951  | 5.285   | ppbv   | 97     |
| 51) 2-Hexanone                | 7.386  | 43  | 1506    | 0.060   | ppbv # | 46     |
| 53) Toluene                   | 6.939  | 91  | 213911  | 6.055   | ppbv   | 99     |
| 58) Ethyl Benzene             | 9.361  | 91  | 21939   | 0.453   | ppbv   | 92     |
| 59) m/p-Xylene                | 9.542  | 91  | 36357   | 0.888   | ppbv # | 52     |
| 60) o-Xylene                  | 9.969  | 91  | 19505   | 0.479   | ppbv   | 100    |
| 61) Styrene                   | 9.875  | 104 | 14267   | 1.184   | ppbv   | 97     |
| 66) Benzyl Chloride           | 11.626 | 91  | 164     | 0.035   | ppbv # | 66     |
| 69) p-Isopropyltoluene        | 11.927 | 119 | 2132    | 0.036   | ppbv # | 88     |
| 70) n-Butylbenzene            | 12.290 | 91  | 254     | 0.305   | ppbv # | 1      |
| 72) 4-Ethyltoluene            | 11.131 | 105 | 2902    | 0.407   | ppbv # | 62     |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105 | 2380    | 0.059   | ppbv   | 90     |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105 | 9091    | 0.192   | ppbv # | 58     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042945.D  
Acq On : 18 Sep 2025 14:37  
Operator : SY/MD  
Sample : Q3111-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

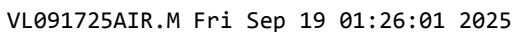
Instrument :  
MSVOA\_L  
ClientSampleId :

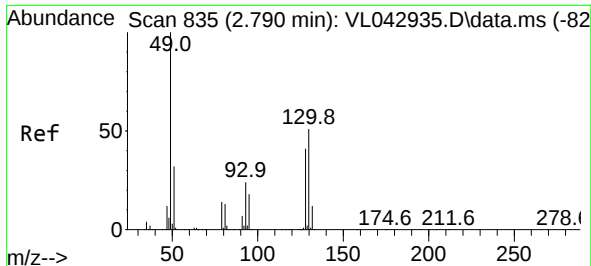
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------------------------------|--------|------|----------|-------|--------|----------|
| 78) Hexachloro-1,3-Butadiene | 13.885 | 225  | 977      | 0.051 | ppbv # | 87       |
| 79) Naphthalene              | 13.516 | 128  | 2794     | 0.418 | ppbv # | 88       |
| 80) Naphthalene,2-methyl-    | 14.458 | 142  | 2751     | 0.922 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene   | 13.448 | 180  | 1025     | 0.466 | ppbv # | 81       |

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

Quant Time: Sep 19 01:25:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

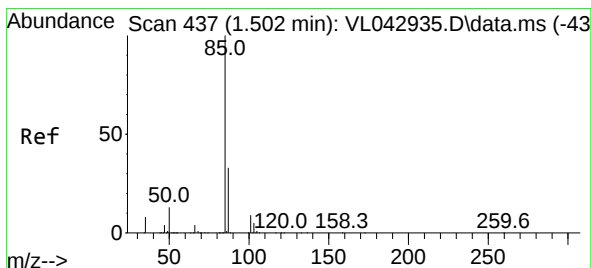
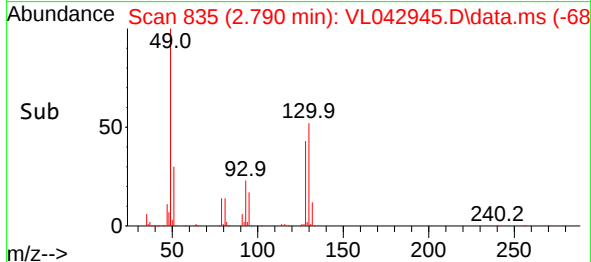
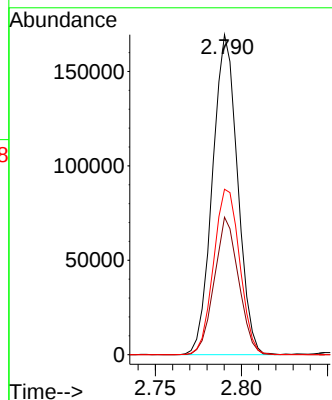
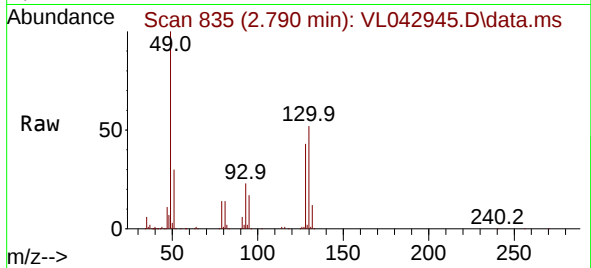




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.790 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

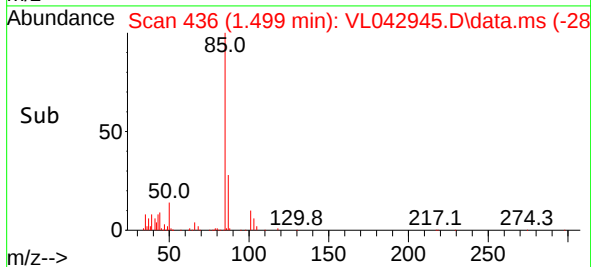
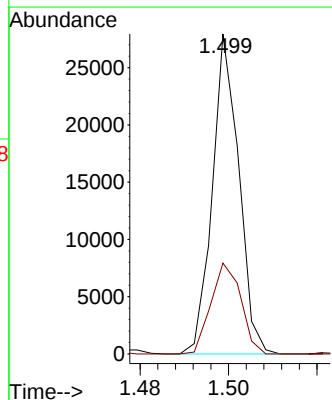
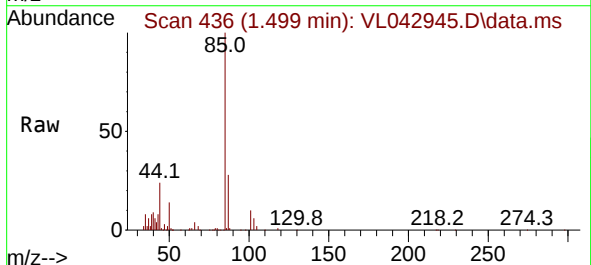
Instrument :  
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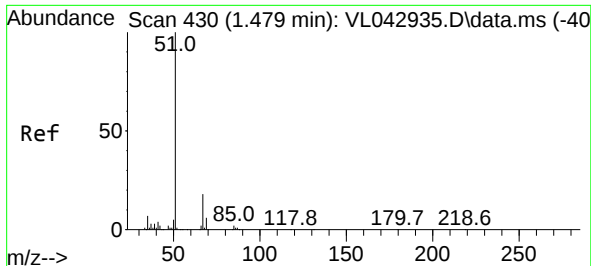
Tgt Ion: 49 Resp: 171978  
 Ion Ratio Lower Upper  
 49 100  
 128 41.7 21.1 63.4  
 130 53.9 26.4 79.2



#2  
 Dichlorodifluoromethane  
 Concen: 0.472 ppbv  
 RT: 1.499 min Scan# 436  
 Delta R.T. -0.003 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

Tgt Ion: 85 Resp: 11604  
 Ion Ratio Lower Upper  
 85 100  
 87 28.4 26.1 39.1

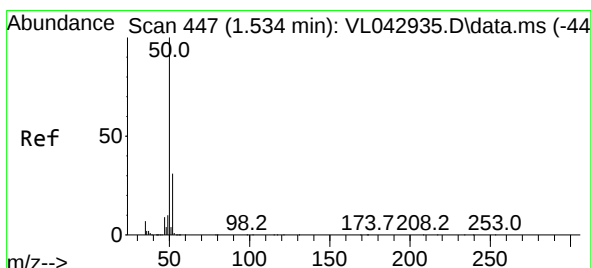
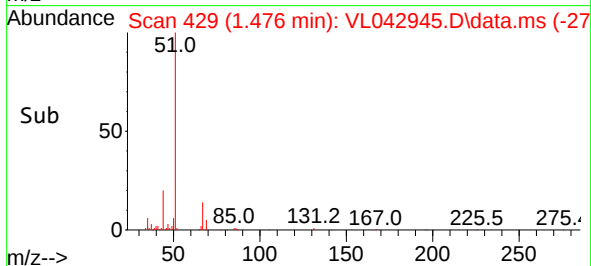
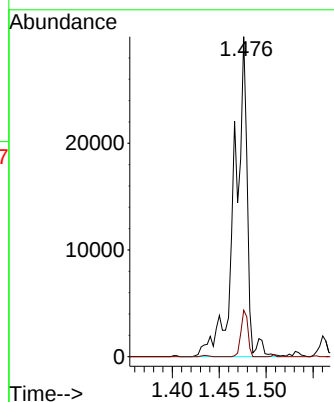
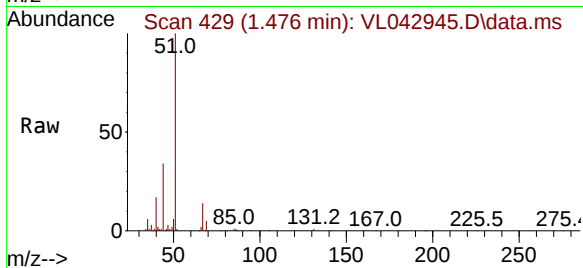




#3  
Chlorodifluoromethane  
Concen: 1.100 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

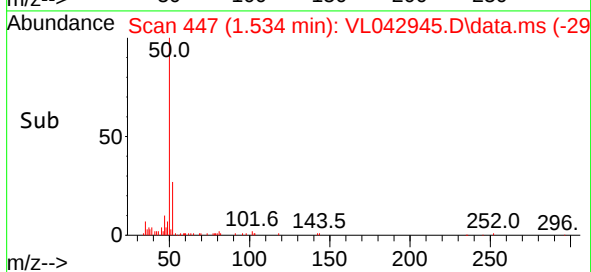
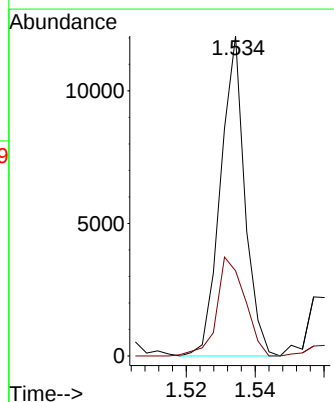
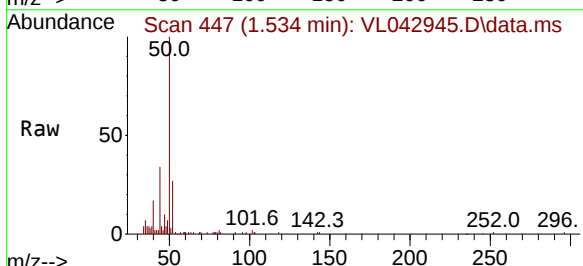
Instrument :  
MSVOA\_L  
ClientSampleId :

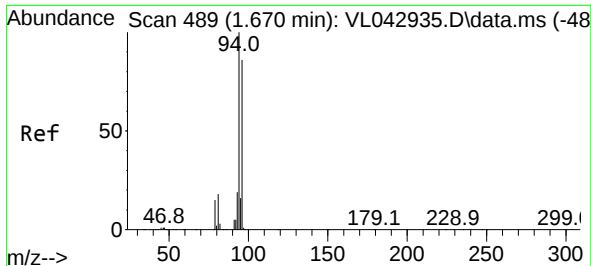
Tgt Ion: 51 Resp: 28461  
Ion Ratio Lower Upper  
51 100  
67 7.8 14.1 21.1#



#4  
Chloromethane  
Concen: 0.601 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 50 Resp: 5930  
Ion Ratio Lower Upper  
50 100  
52 26.6 24.6 36.8

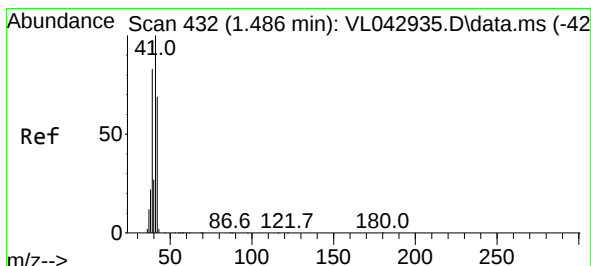
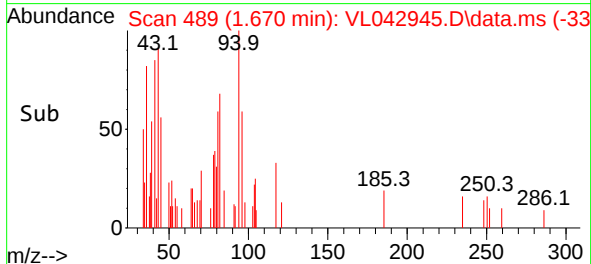
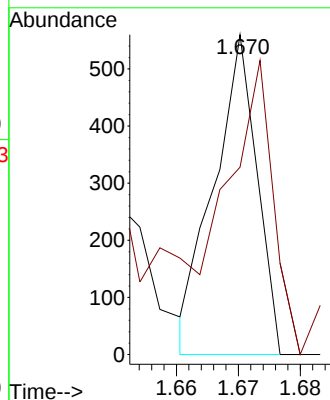
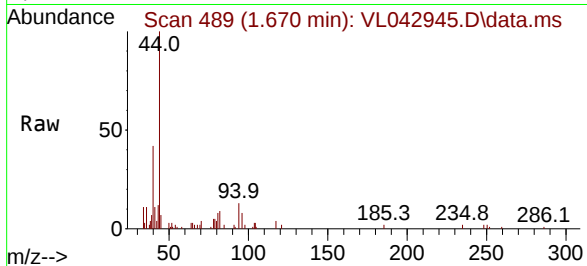




#6  
Bromomethane  
Concen: 0.083 ppbv  
RT: 1.670 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

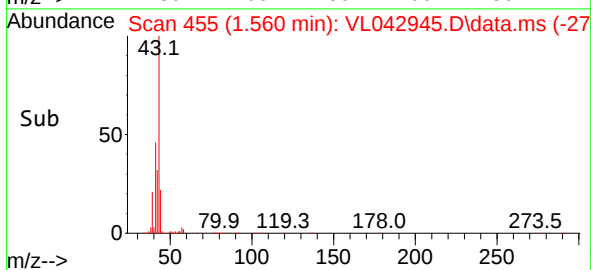
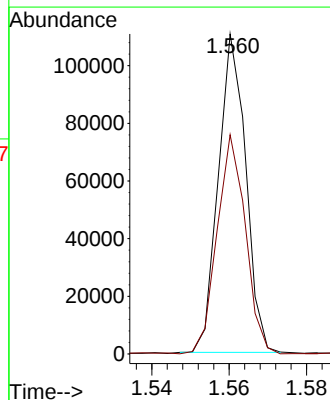
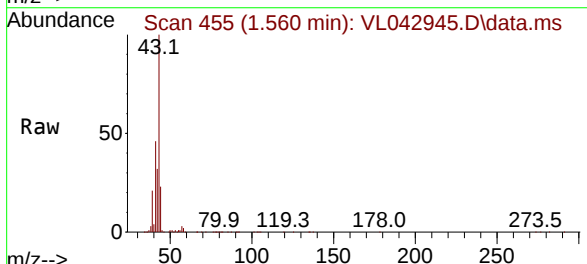
Instrument :  
MSVOA\_L  
ClientSampleId :

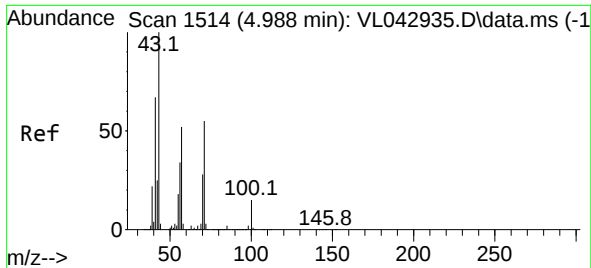
Tgt Ion: 94 Resp: 269  
Ion Ratio Lower Upper  
94 100  
96 30.0 68.6 103.0#



#9  
Propene  
Concen: 5.735 ppbv  
RT: 1.560 min Scan# 455  
Delta R.T. 0.074 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 41 Resp: 54171  
Ion Ratio Lower Upper  
41 100  
42 71.8 55.0 82.4





#10

Heptane

Concen: 0.809 ppbv

RT: 4.985 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

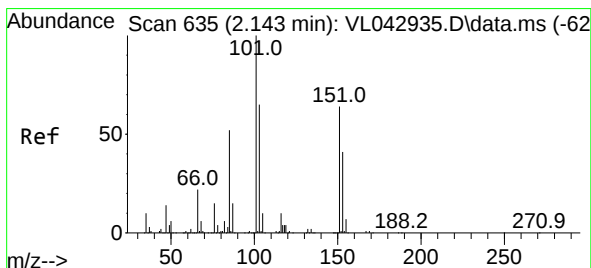
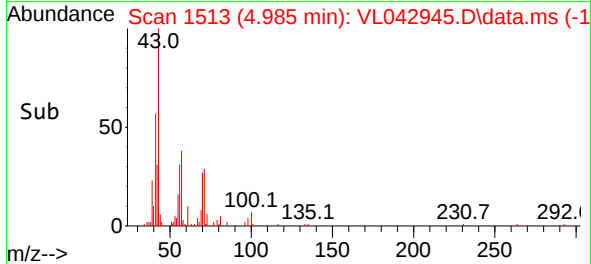
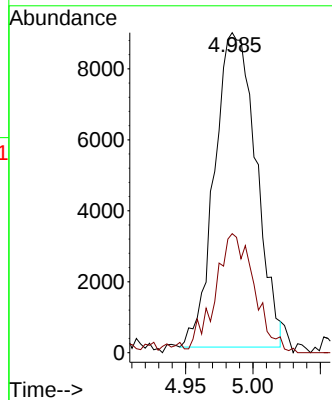
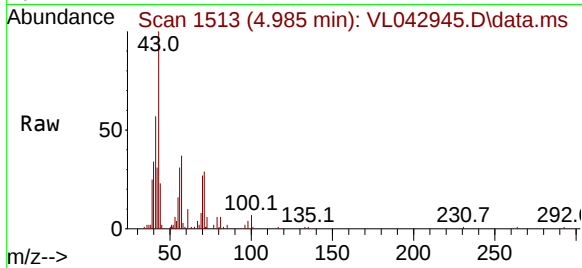
ClientSampleId :

Tgt Ion: 43 Resp: 18926

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.8#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 2.146 min Scan# 636

Delta R.T. 0.003 min

Lab File: VL042945.D

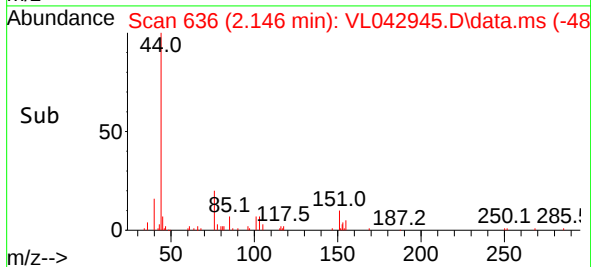
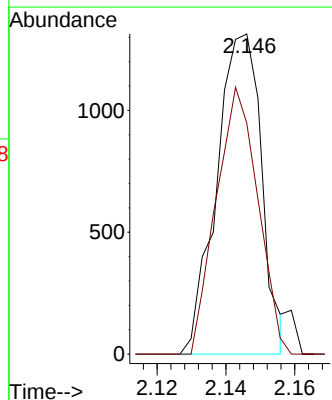
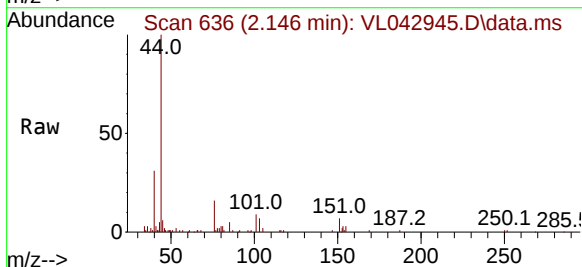
Acq: 18 Sep 2025 14:37

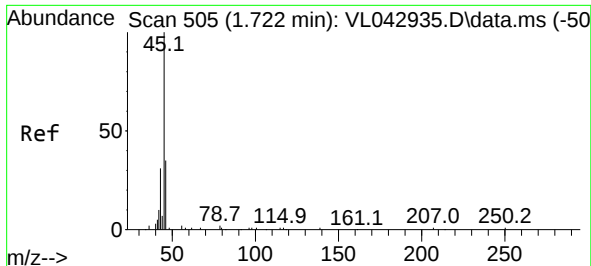
Tgt Ion:101 Resp: 1192

Ion Ratio Lower Upper

101 100

151 77.3 51.9 77.9

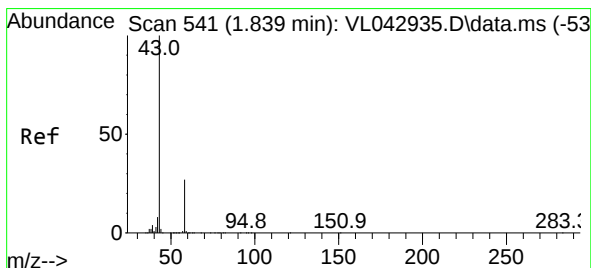
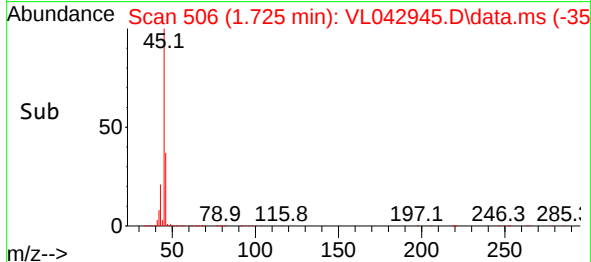
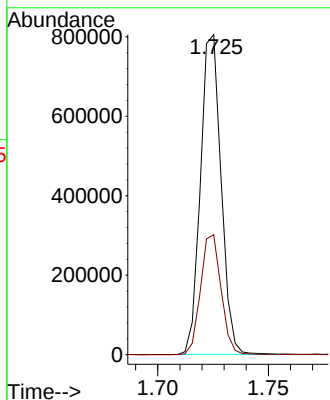
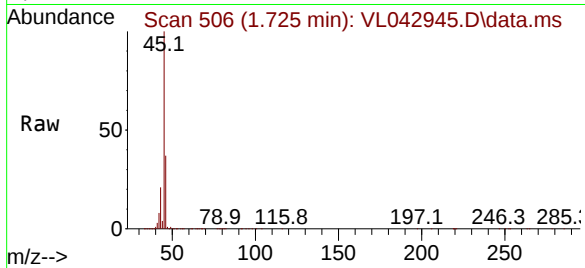




#13  
 Ethanol  
 Concen: 542.469 ppbv  
 RT: 1.725 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

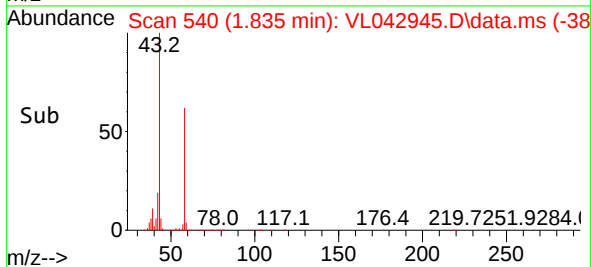
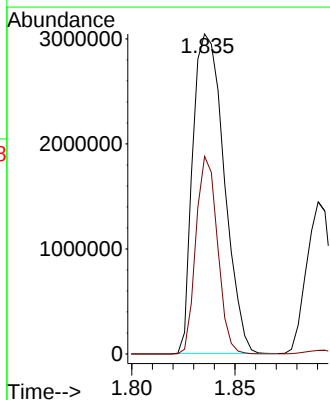
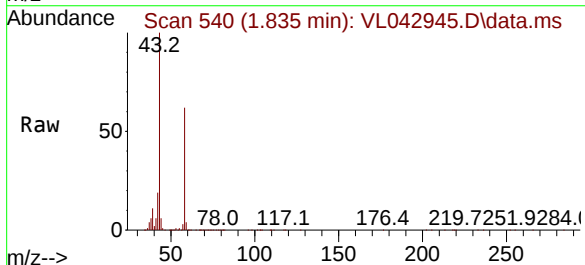
Instrument :  
 MSVOA\_L  
 ClientSampleId :

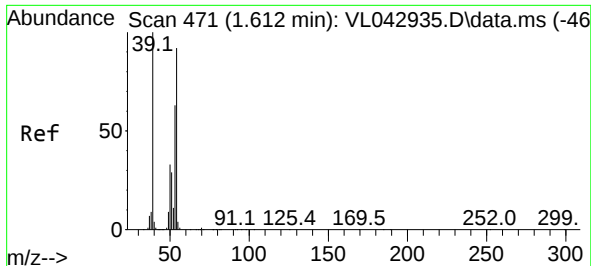
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 Ion Ratio Lower Upper  
 45 100  
 46 37.6 16.5 66.1



#15  
 Acetone  
 Concen: 151.550 ppbv  
 RT: 1.835 min Scan# 540  
 Delta R.T. -0.003 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

Tgt Ion: 43 Resp: 3201270  
 Ion Ratio Lower Upper  
 43 100  
 58 42.7 22.2 33.2#

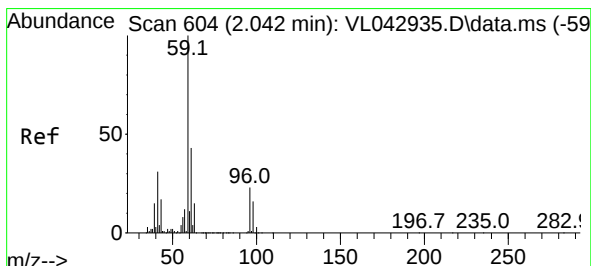
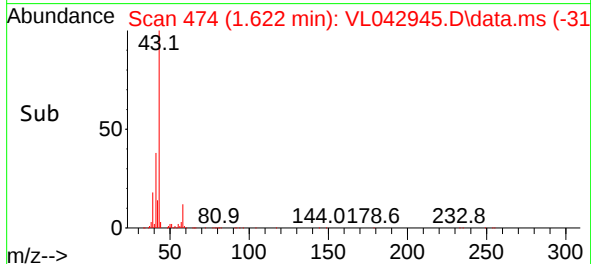
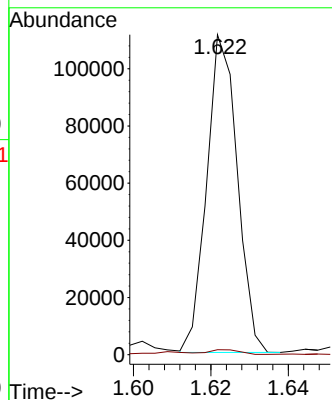
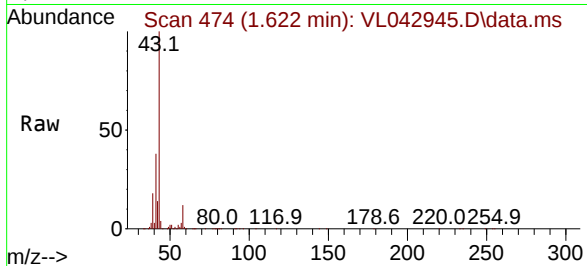




#16  
1,3-Butadiene  
Concen: 6.901 ppbv  
RT: 1.622 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

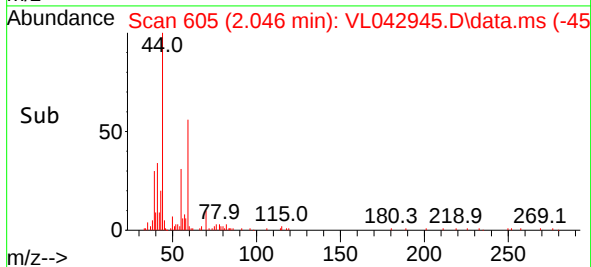
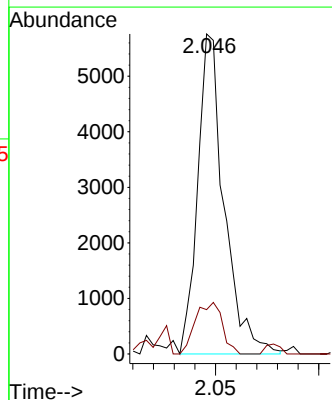
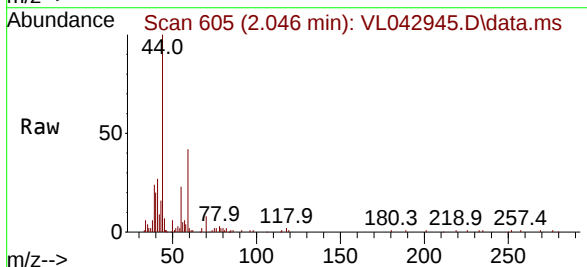
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MSVOA\_L  
ClientSampleId :

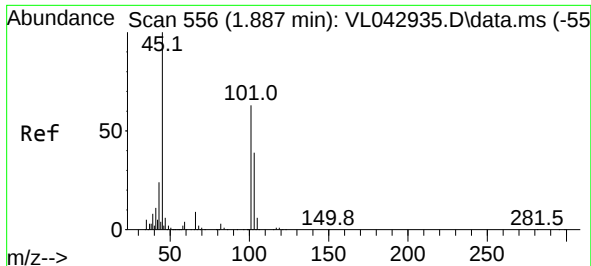
Tgt Ion: 39 Resp: 60980  
Ion Ratio Lower Upper  
39 100  
54 3.4 62.2 93.4#



#17  
tert-Butyl alcohol  
Concen: 0.252 ppbv  
RT: 2.046 min Scan# 605  
Delta R.T. 0.003 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 59 Resp: 5120  
Ion Ratio Lower Upper  
59 100  
57 917.9 9.0 13.6#

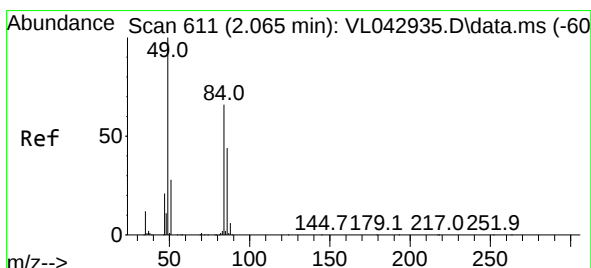
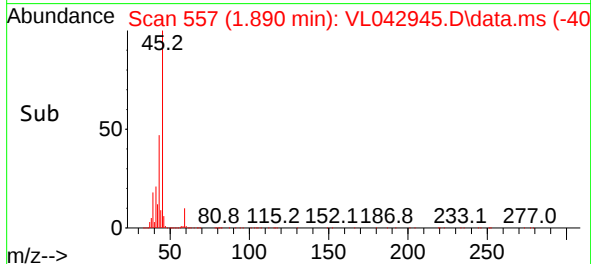
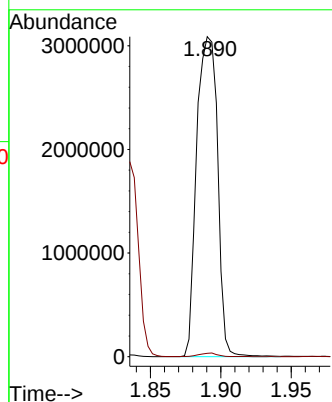
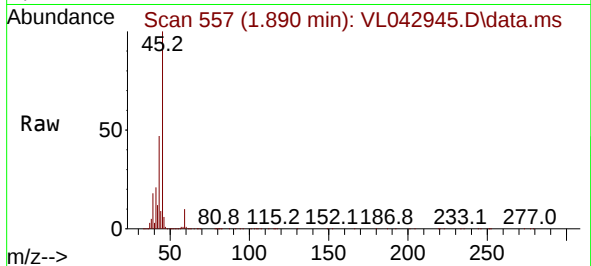




#19  
Isopropyl Alcohol  
Concen: 281.710 ppbv  
RT: 1.890 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

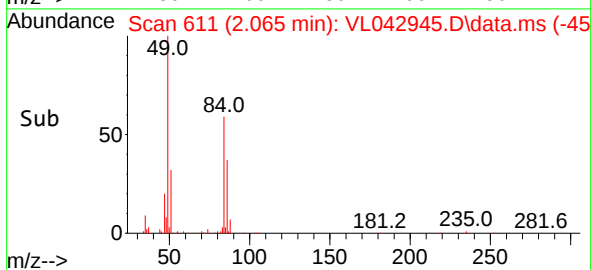
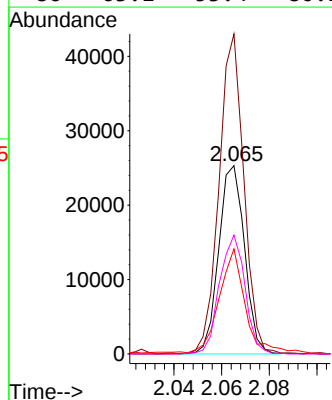
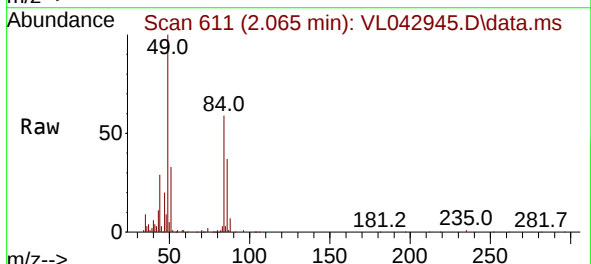
Instrument :  
MSVOA\_L  
ClientSampleId :

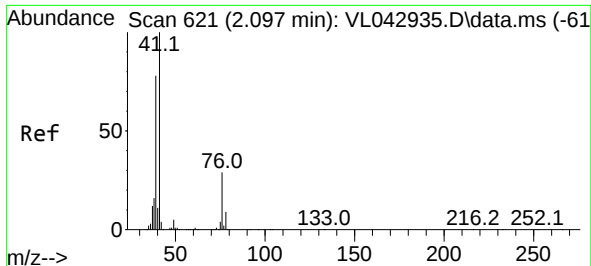
Tgt Ion: 45 Resp: 3190461  
Ion Ratio Lower Upper  
45 100  
58 42.8 2.0 3.0#



#20  
Methylene Chloride  
Concen: 2.071 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 84 Resp: 19046  
Ion Ratio Lower Upper  
84 100  
49 169.7 121.8 182.6  
51 54.7 35.6 53.4#  
86 63.1 53.4 80.2

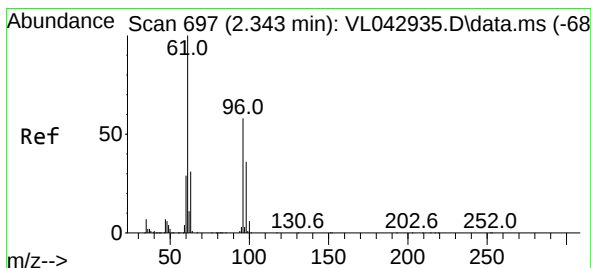
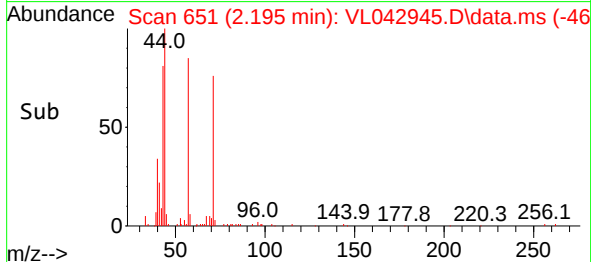
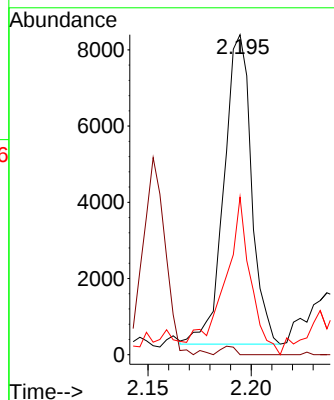
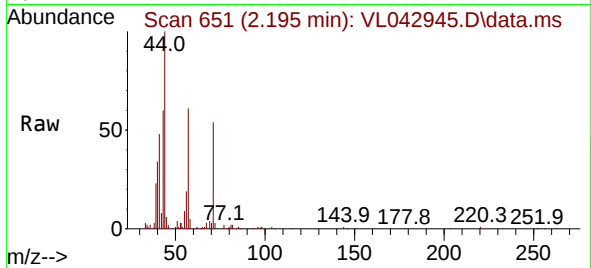




#21  
 Allyl Chloride  
 Concen: 0.525 ppbv  
 RT: 2.195 min Scan# 61  
 Delta R.T. 0.097 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

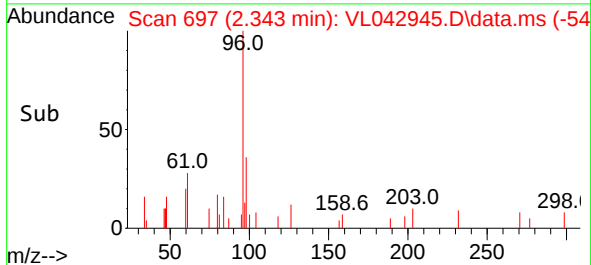
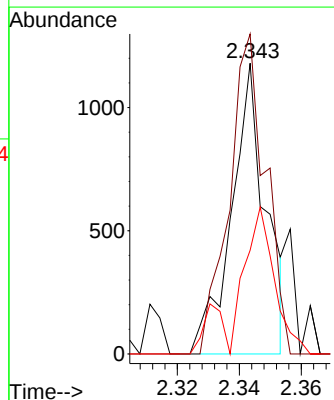
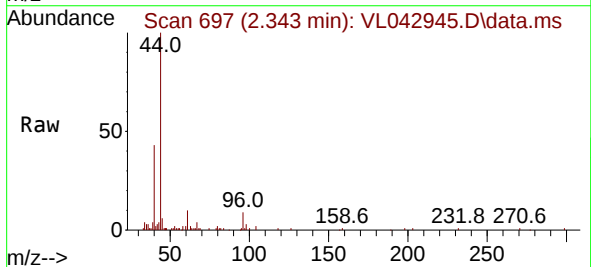
Instrument :  
 MSVOA\_L  
 ClientSampleId :

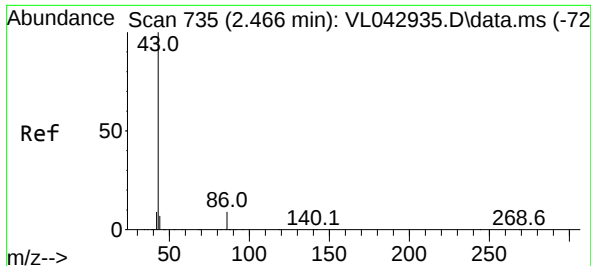
Tgt Ion: 41 Resp: 7511  
 Ion Ratio Lower Upper  
 41 100  
 76 51.9 23.8 35.6#  
 39 0.0 63.2 94.8#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.096 ppbv  
 RT: 2.343 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

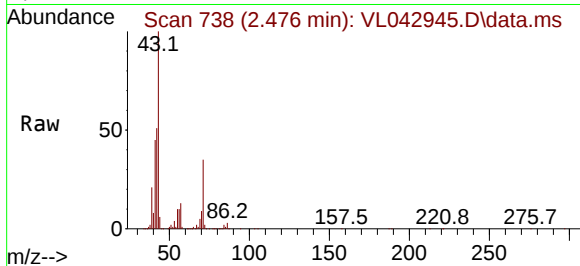
Tgt Ion: 96 Resp: 900  
 Ion Ratio Lower Upper  
 96 100  
 61 110.1 139.0 208.6#  
 98 35.7 49.4 74.2#



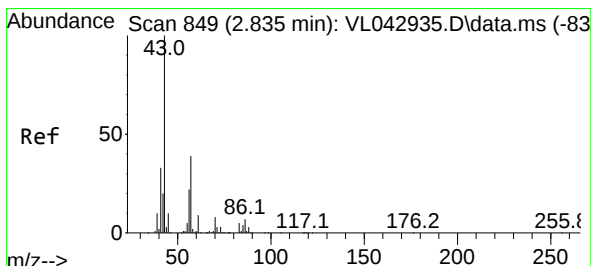
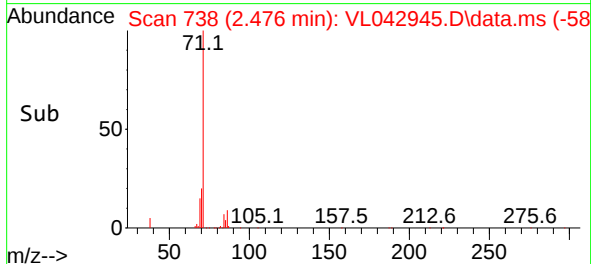
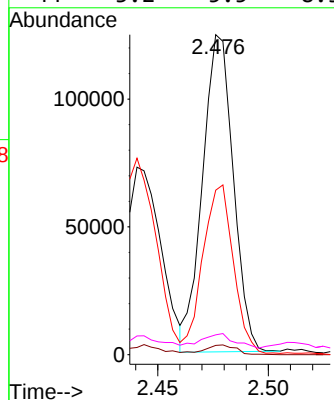


#23  
 Vinyl Acetate  
 Concen: 4.889 ppbv  
 RT: 2.476 min Scan# 71  
 Delta R.T. 0.010 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :

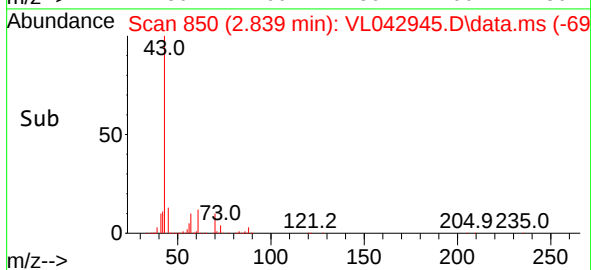
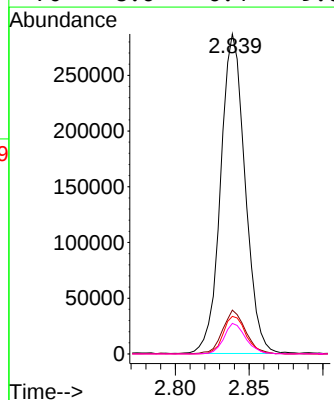
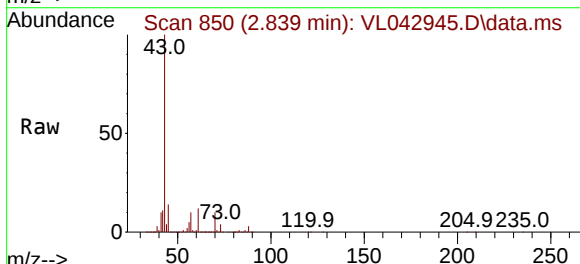


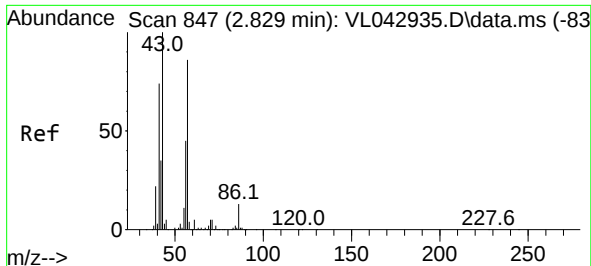
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 119995 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 2.9   | 6.4   | 9.6#   |
| 42       | 51.5  | 7.5   | 11.3#  |
| 44       | 3.2   | 5.5   | 8.3#   |



#25  
 Ethyl Acetate  
 Concen: 7.326 ppbv  
 RT: 2.839 min Scan# 850  
 Delta R.T. 0.003 min  
 Lab File: VL042945.D  
 Acq: 18 Sep 2025 14:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 330462 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 13.3  | 7.8   | 11.8#  |
| 61       | 11.1  | 7.2   | 10.8#  |
| 70       | 8.6   | 6.4   | 9.6    |

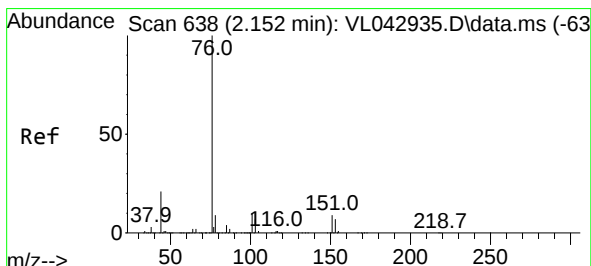
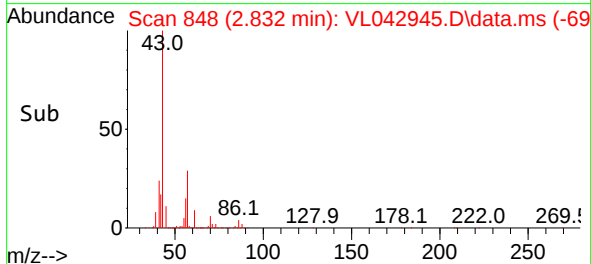
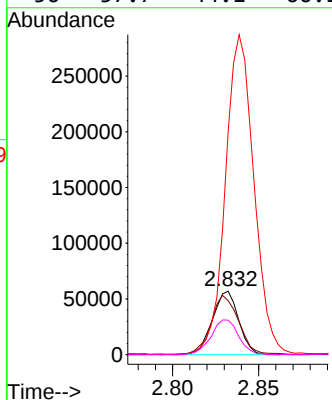
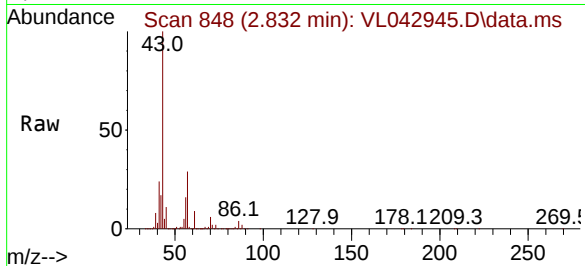




#26  
Hexane  
Concen: 3.122 ppbv  
RT: 2.832 min Scan# 84  
Delta R.T. 0.003 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

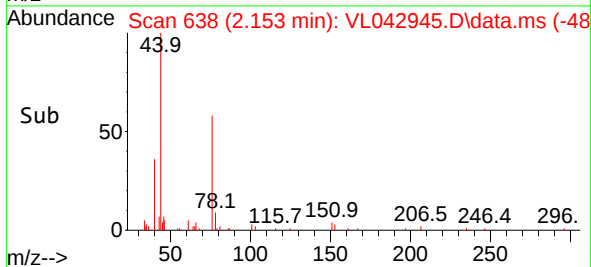
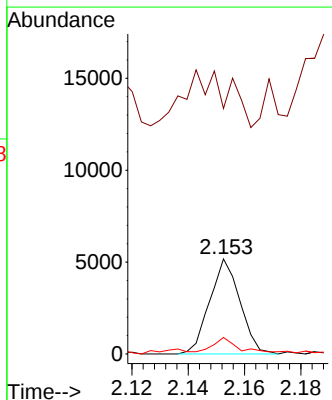
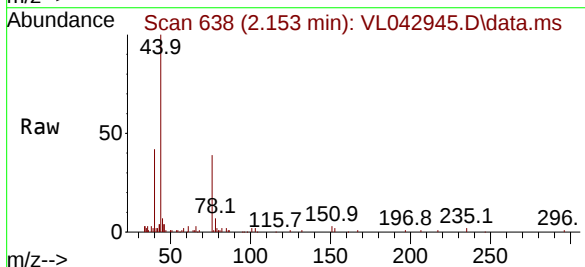
Instrument :  
MSVOA\_L  
ClientSampleId :

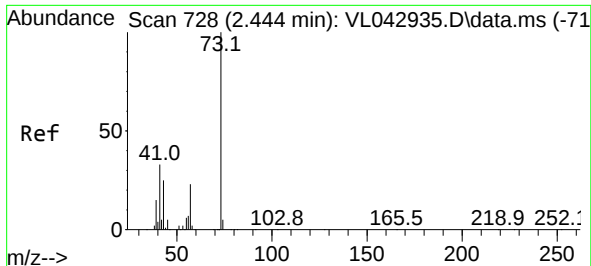
Tgt Ion: 57 Resp: 60432  
Ion Ratio Lower Upper  
57 100  
41 97.9 71.3 106.9  
43 555.5 183.9 275.9#  
56 57.7 44.1 66.1



#27  
Carbon Disulfide  
Concen: 0.162 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 76 Resp: 3864  
Ion Ratio Lower Upper  
76 100  
44 0.0 15.4 23.0#  
78 23.4 9.1 13.7#

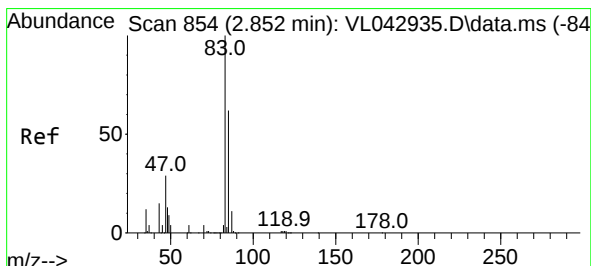
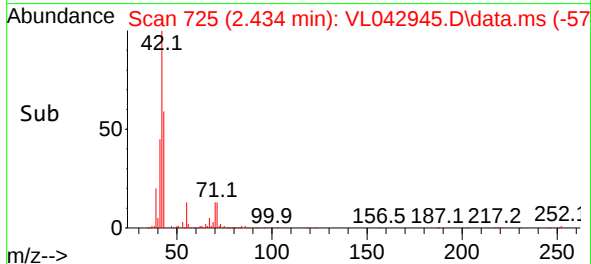
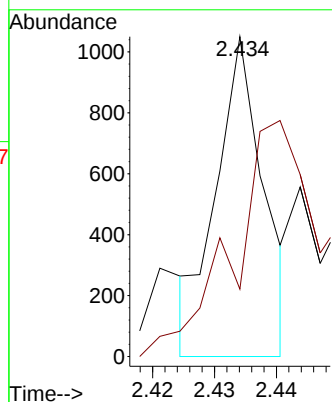
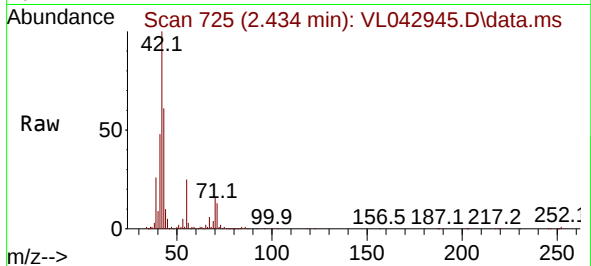




#28  
Methyl tert-Butyl Ether  
Concen: 0.053 ppbv  
RT: 2.434 min Scan# 71  
Delta R.T. -0.010 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

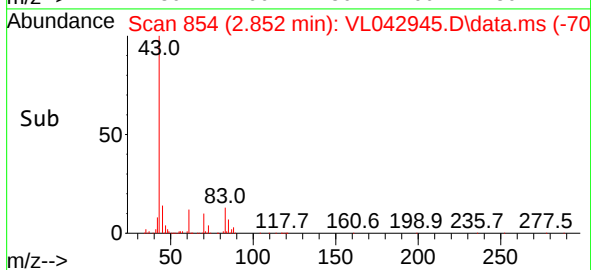
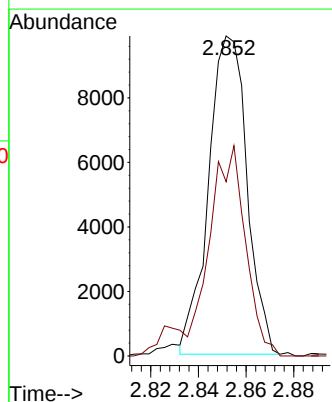
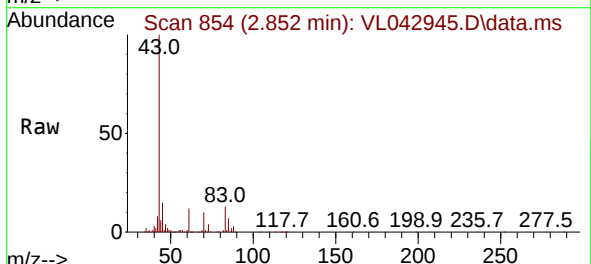
Instrument :  
MSVOA\_L  
ClientSampleId :

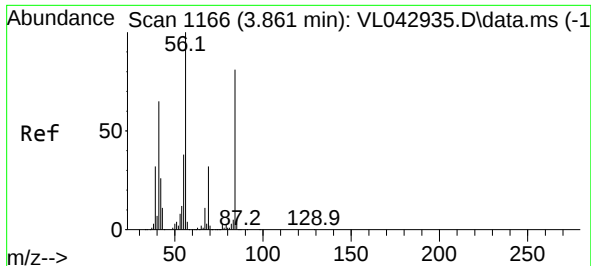
Tgt Ion: 73 Resp: 560  
Ion Ratio Lower Upper  
73 100  
57 0.0 18.6 28.0#



#29  
Chloroform  
Concen: 0.350 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 83 Resp: 11080  
Ion Ratio Lower Upper  
83 100  
85 54.7 49.7 74.5

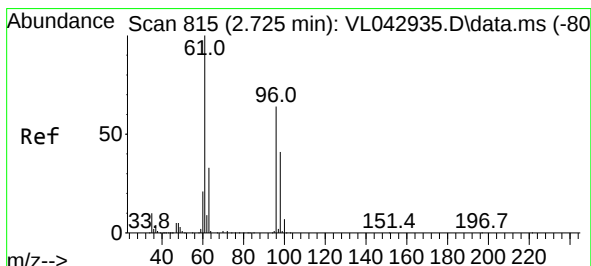
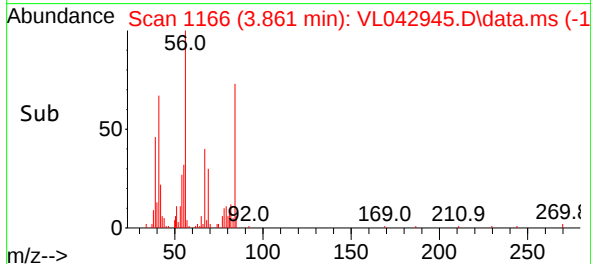
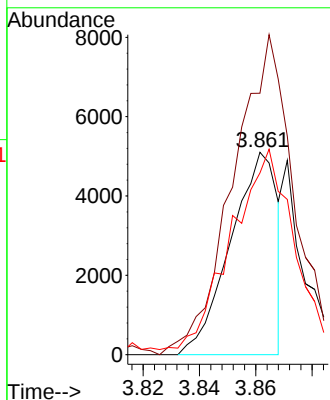
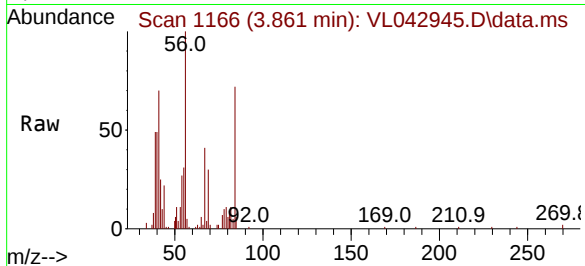




#30  
Cyclohexane  
Concen: 0.402 ppbv  
RT: 3.861 min Scan# 1166  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

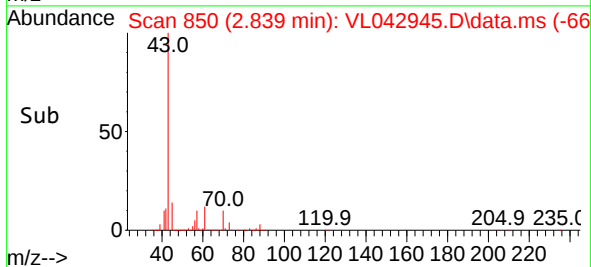
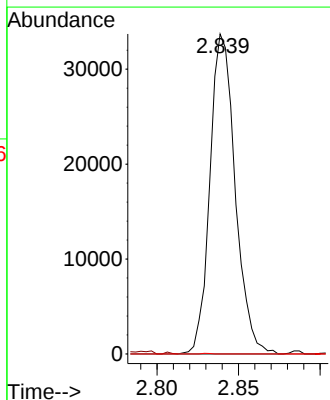
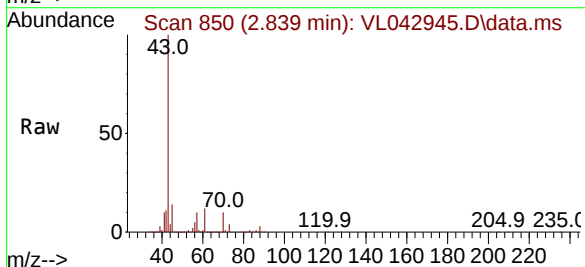
Instrument :  
MSVOA\_L  
ClientSampleId :

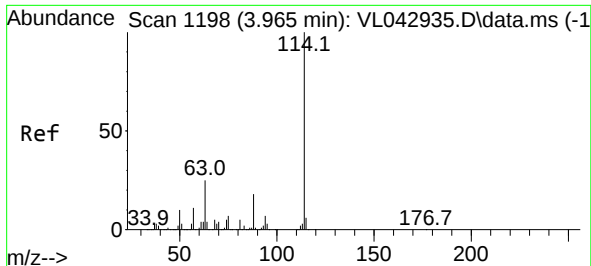
Tgt Ion: 84 Resp: 5867  
Ion Ratio Lower Upper  
84 100  
56 210.5 100.6 150.8#  
41 152.7 65.4 98.0#



#31  
cis-1,2-Dichloroethene  
Concen: 1.923 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.113 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 61 Resp: 36337  
Ion Ratio Lower Upper  
61 100  
96 0.0 51.4 77.2#  
98 0.0 32.8 49.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1198

Delta R.T. -0.003 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

ClientSampleId :

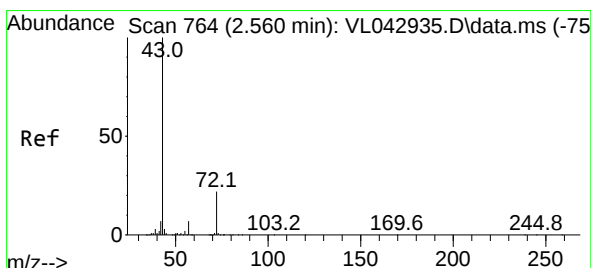
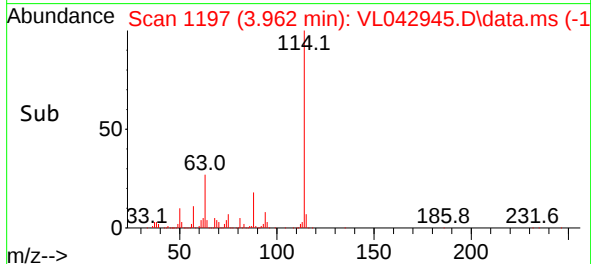
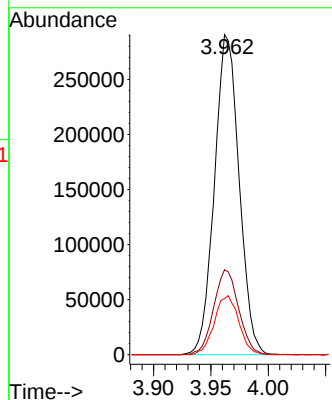
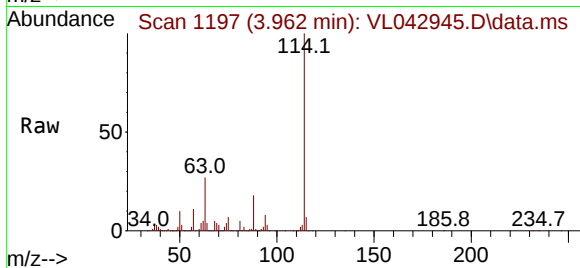
Tgt Ion:114 Resp: 434311

Ion Ratio Lower Upper

114 100

63 27.0 21.1 31.7

88 18.3 14.6 22.0



#34

2-Butanone

Concen: 4.006 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042945.D

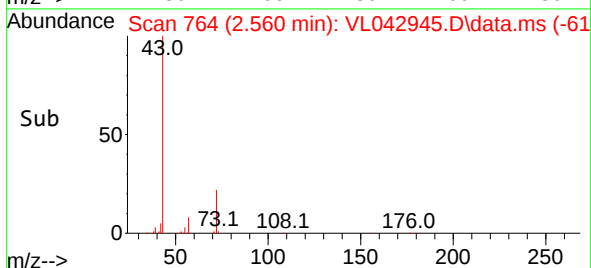
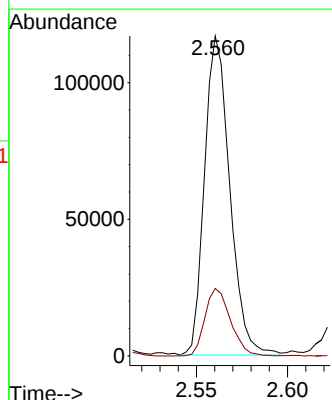
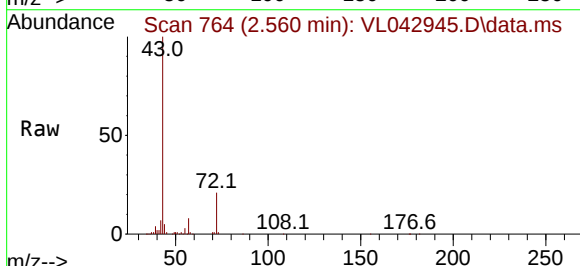
Acq: 18 Sep 2025 14:37

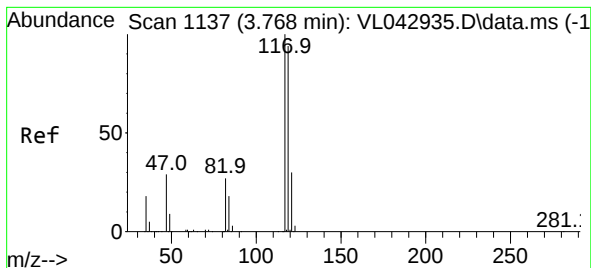
Tgt Ion: 43 Resp: 112773

Ion Ratio Lower Upper

43 100

72 21.8 17.2 25.8





#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.006 min

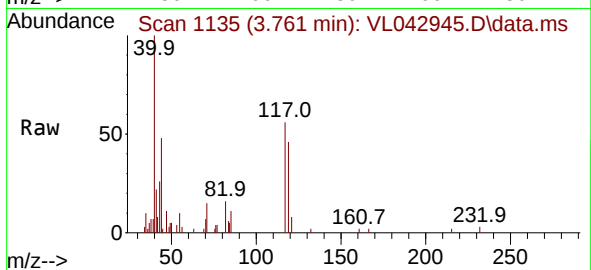
Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

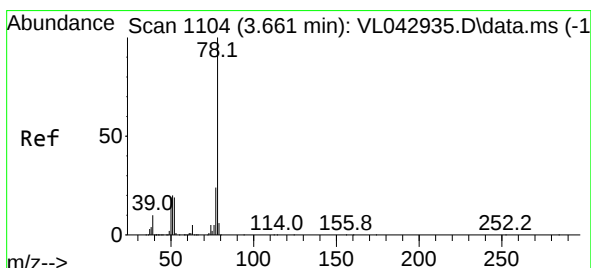
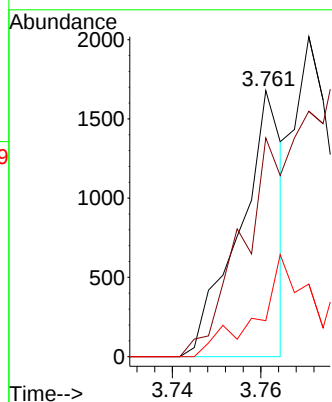
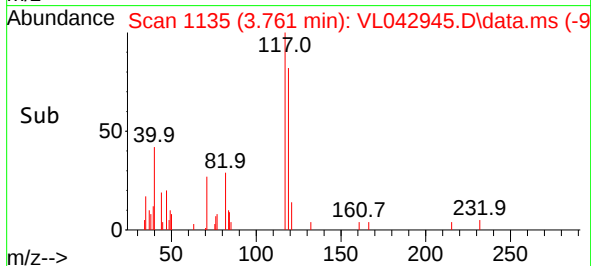
Instrument :

MSVOA\_L

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 1122  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 82.2  | 74.9  | 112.3 |
| 121      | 13.5  | 24.0  | 36.0  |



#36

Benzene

Concen: 0.826 ppbv

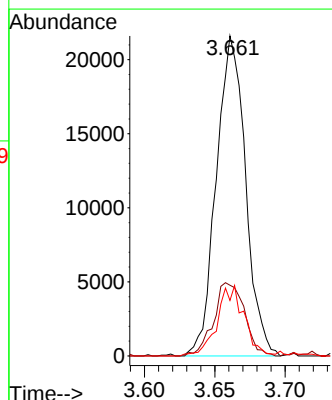
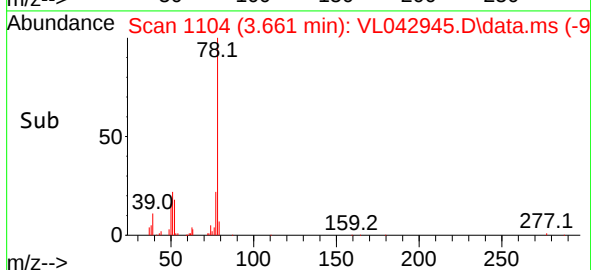
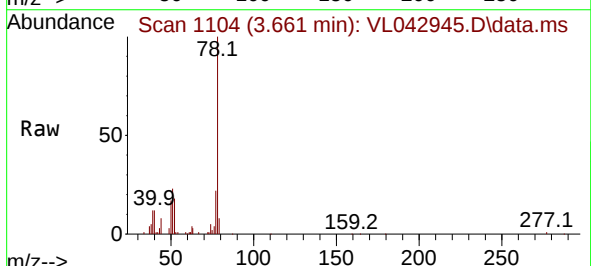
RT: 3.661 min Scan# 1104

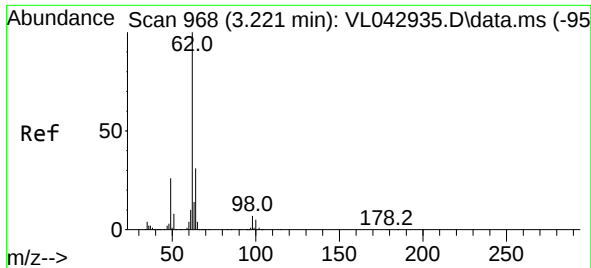
Delta R.T. 0.000 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 31276 |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 22.1  | 19.2  | 28.8  |
| 50       | 17.4  | 14.8  | 22.2  |





#37

1,2-Dichloroethane

Concen: 0.625 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

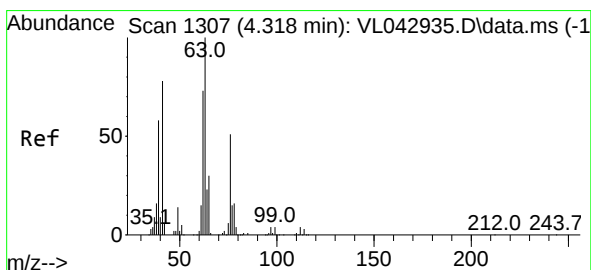
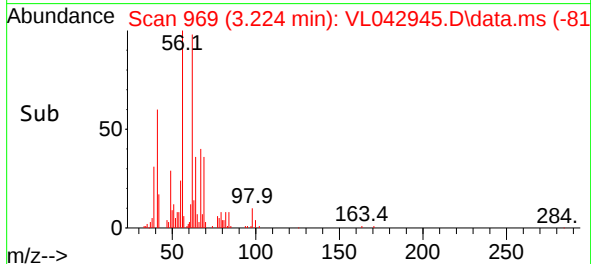
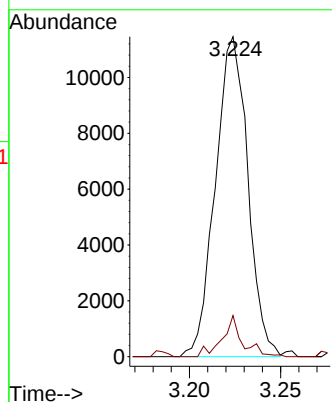
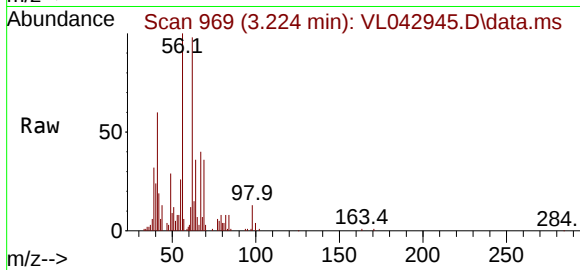
ClientSampleId :

Tgt Ion: 62 Resp: 14184

Ion Ratio Lower Upper

62 100

98 8.0 5.5 8.3



#39

1,2-Dichloropropane

Concen: 7.644 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.356 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

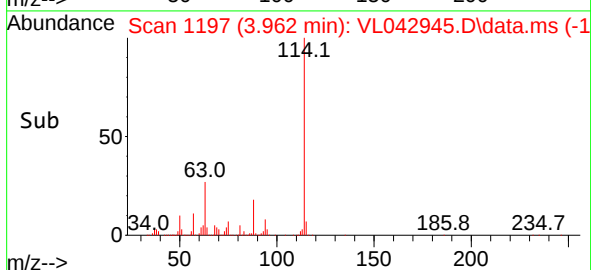
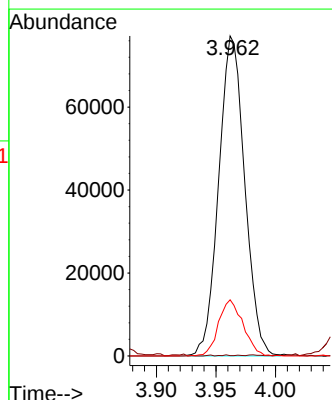
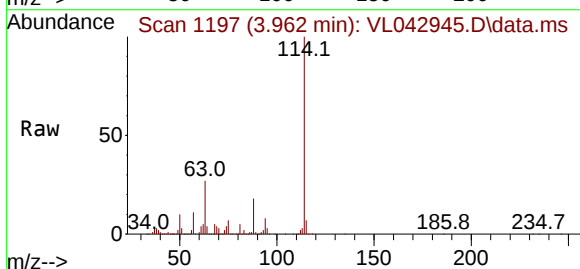
Tgt Ion: 63 Resp: 117036

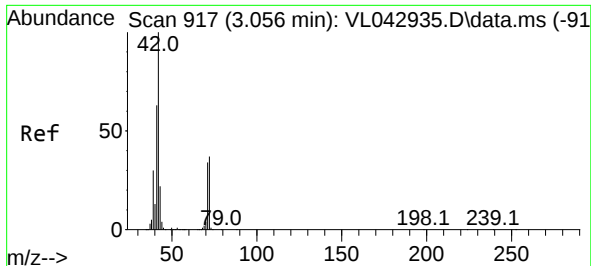
Ion Ratio Lower Upper

63 100

41 0.0 62.7 94.1#

62 17.6 58.4 87.6#

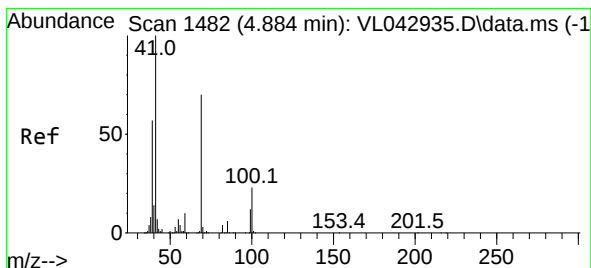
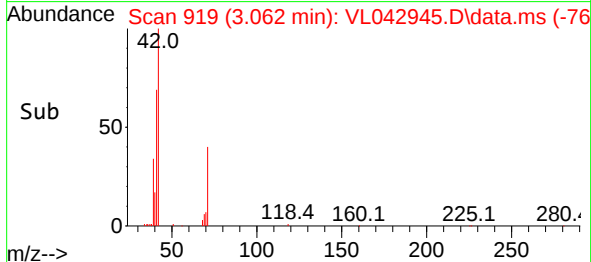
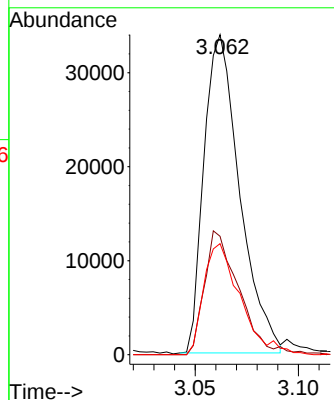
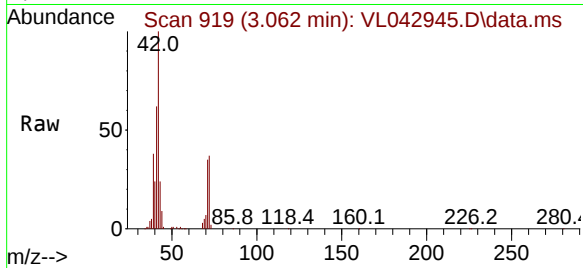




#41  
Tetrahydrofuran  
Concen: 2.920 ppbv  
RT: 3.062 min Scan# 917  
Delta R.T. 0.006 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

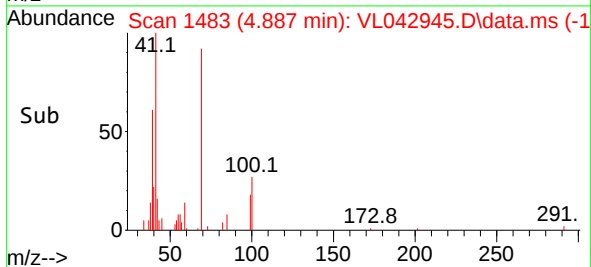
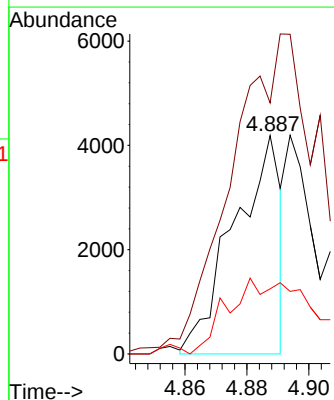
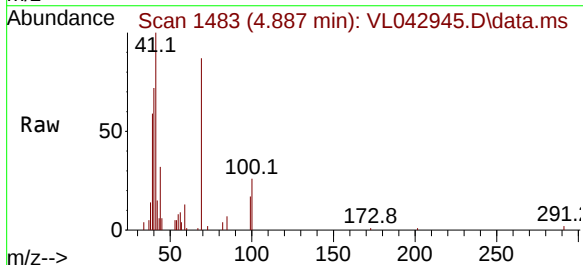
Instrument :  
MSVOA\_L  
ClientSampleId :

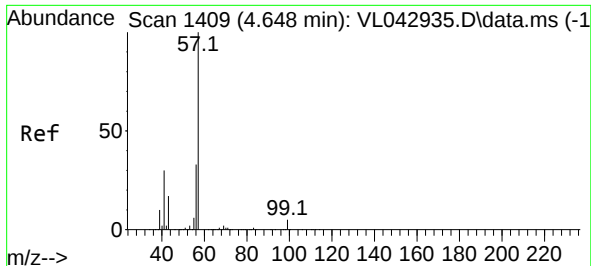
Tgt Ion: 42 Resp: 40679  
Ion Ratio Lower Upper  
42 100  
72 37.8 30.4 45.6  
71 35.7 28.3 42.5



#43  
Methyl Methacrylate  
Concen: 0.344 ppbv  
RT: 4.887 min Scan# 1483  
Delta R.T. 0.003 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 69 Resp: 4369  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.6 178.0#  
100 68.0 26.2 39.4#

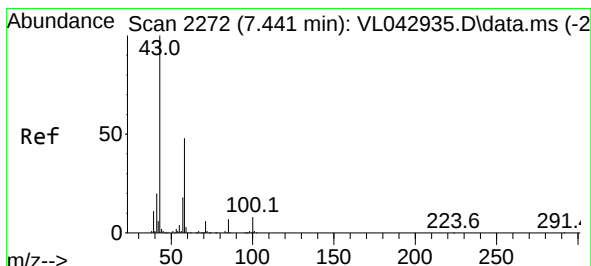
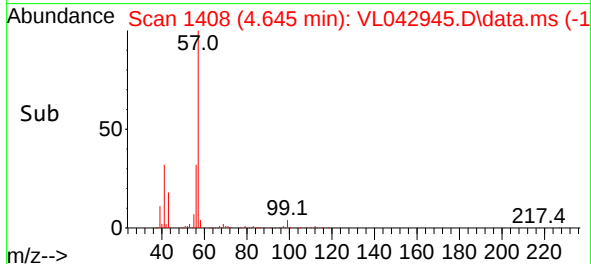
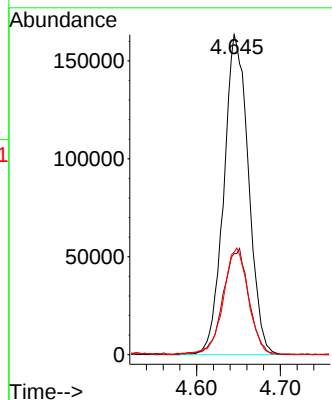
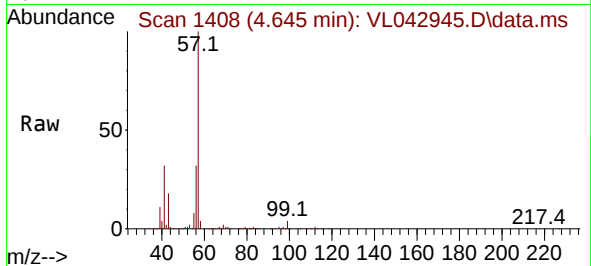




#44  
2,2,4-Trimethylpentane  
Concen: 5.285 ppbv  
RT: 4.645 min Scan# 1409  
Delta R.T. -0.003 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

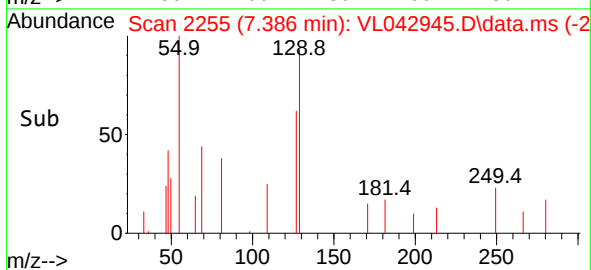
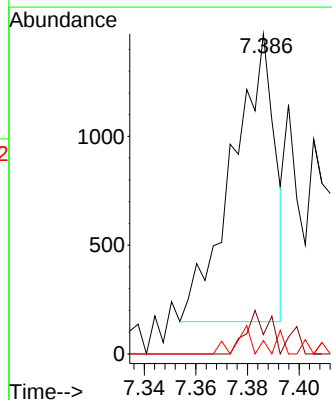
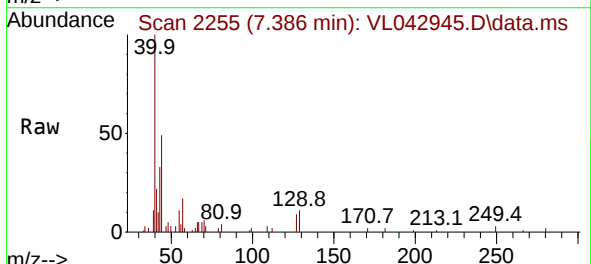
Instrument :  
MSVOA\_L  
ClientSampleId :

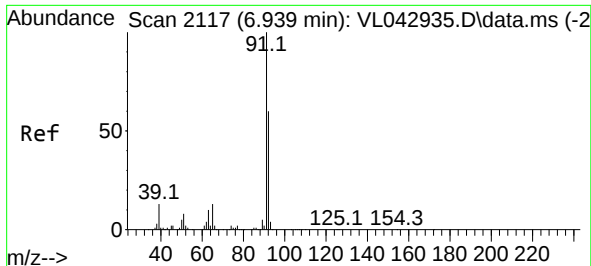
Tgt Ion: 57 Resp: 333951  
Ion Ratio Lower Upper  
57 100  
41 34.4 25.8 38.6  
56 34.4 26.2 39.4



#51  
2-Hexanone  
Concen: 0.060 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. -0.055 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 43 Resp: 1506  
Ion Ratio Lower Upper  
43 100  
58 10.8 37.9 56.9#  
98 6.2 0.7 1.1#

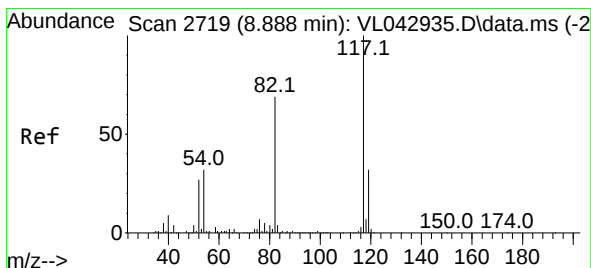
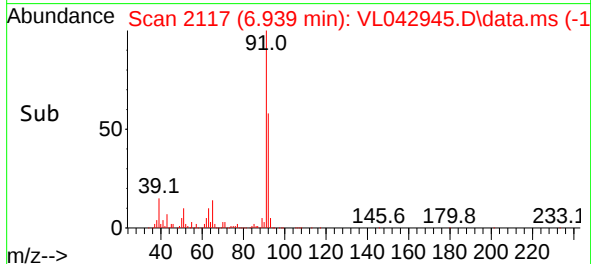
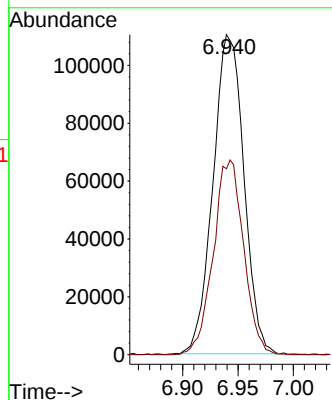
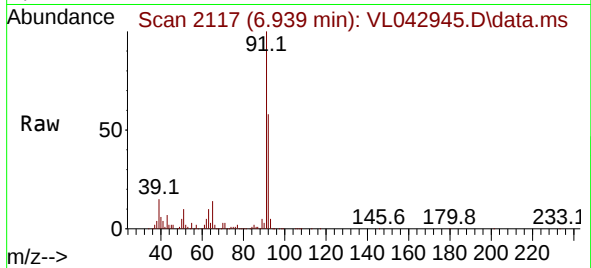




#53  
Toluene  
Concen: 6.055 ppbv  
RT: 6.939 min Scan# 2117  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

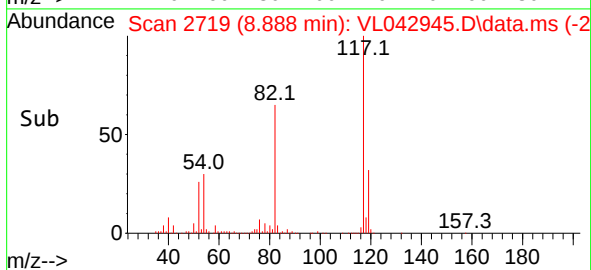
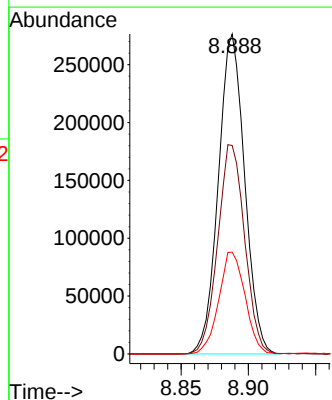
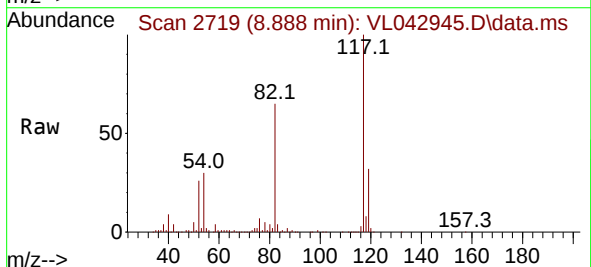
Instrument :  
MSVOA\_L  
ClientSampleId :

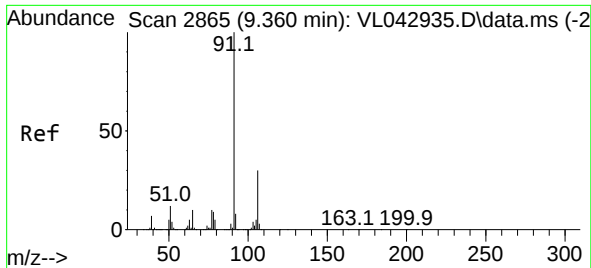
Tgt Ion: 91 Resp: 213911  
Ion Ratio Lower Upper  
91 100  
92 60.0 47.4 71.2



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 117 Resp: 375912  
Ion Ratio Lower Upper  
117 100  
82 66.9 56.1 84.1  
119 31.9 25.8 38.8

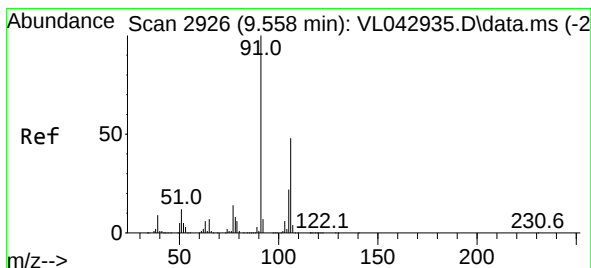
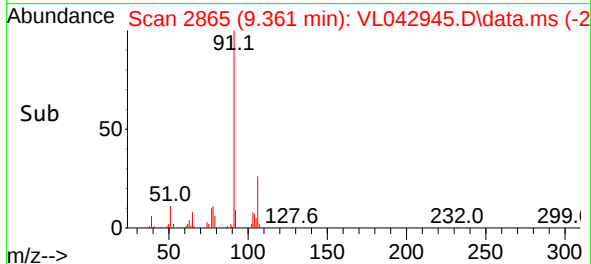
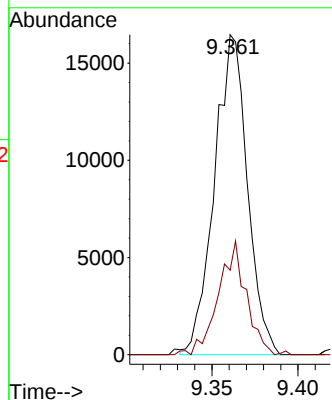
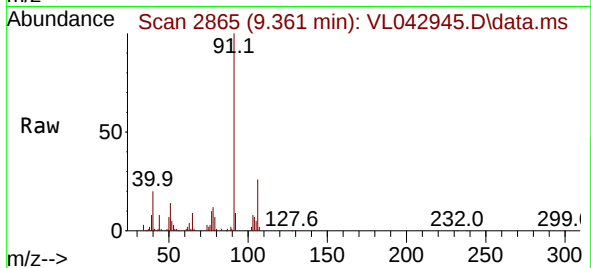




#58  
Ethyl Benzene  
Concen: 0.453 ppbv  
RT: 9.361 min Scan# 21939  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

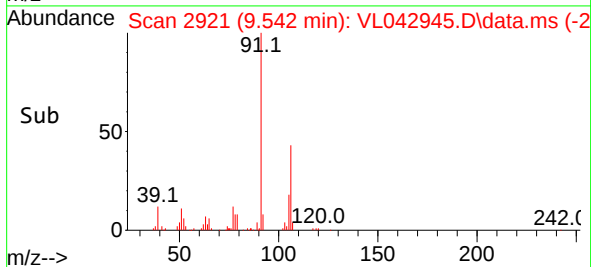
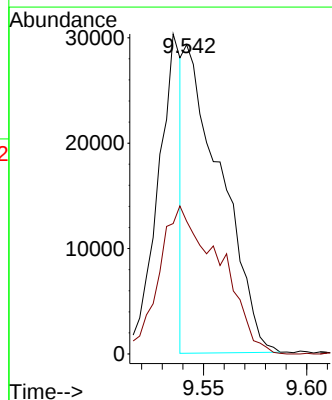
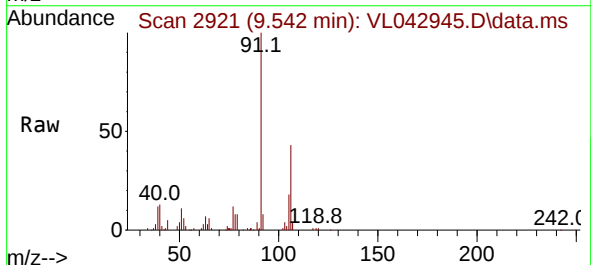
Instrument :  
MSVOA\_L  
ClientSampleId :

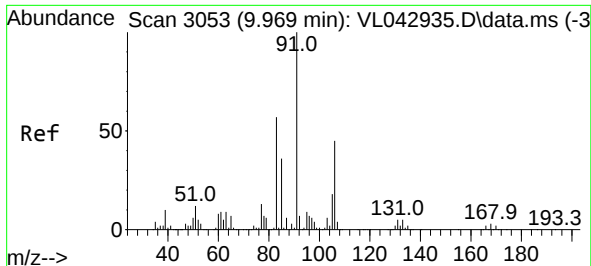
Tgt Ion: 91 Resp: 21939  
Ion Ratio Lower Upper  
91 100  
106 26.0 24.2 36.4



#59  
m/p-Xylene  
Concen: 0.888 ppbv  
RT: 9.542 min Scan# 2921  
Delta R.T. -0.016 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 91 Resp: 36357  
Ion Ratio Lower Upper  
91 100  
106 78.7 37.4 56.0#

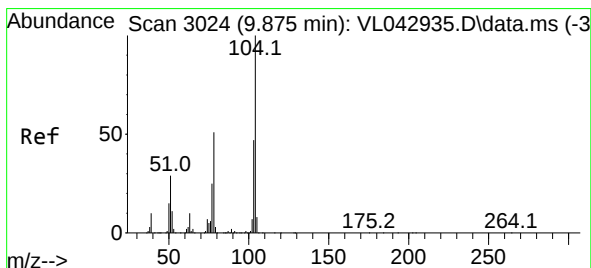
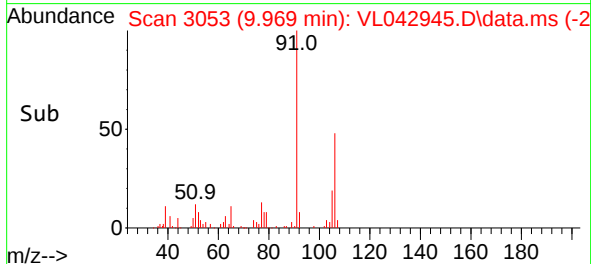
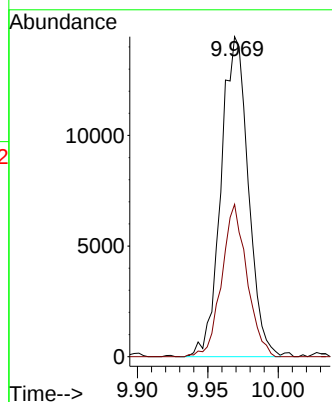
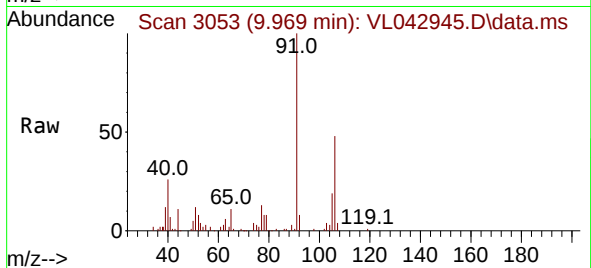




#60  
o-Xylene  
Concen: 0.479 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

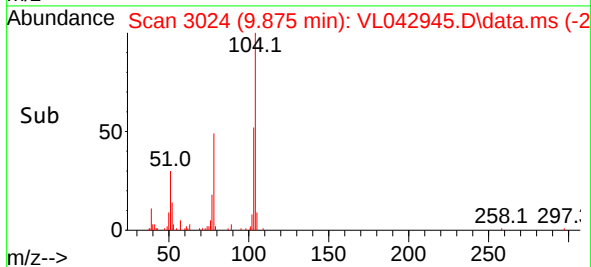
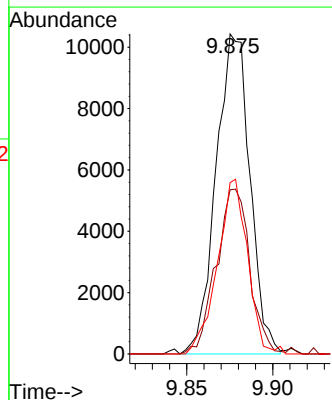
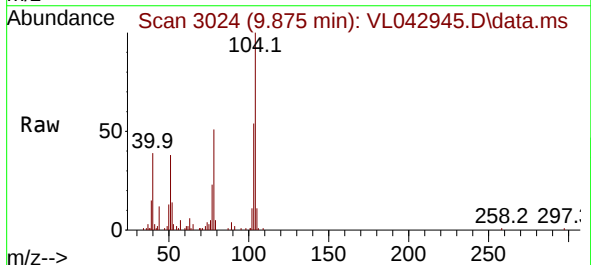
Instrument :  
MSVOA\_L  
ClientSampleId :

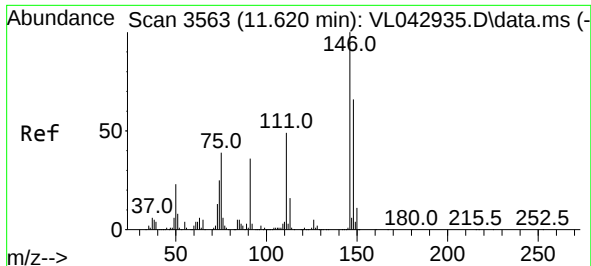
Tgt Ion: 91 Resp: 19505  
Ion Ratio Lower Upper  
91 100  
106 44.0 22.1 66.5



#61  
Styrene  
Concen: 1.184 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 104 Resp: 14267  
Ion Ratio Lower Upper  
104 100  
78 51.8 40.2 60.2  
103 48.7 36.8 55.2

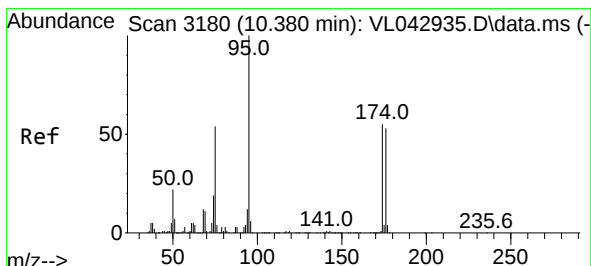
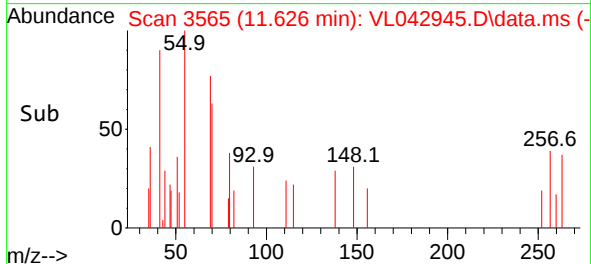
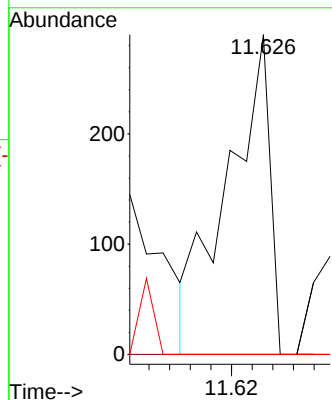
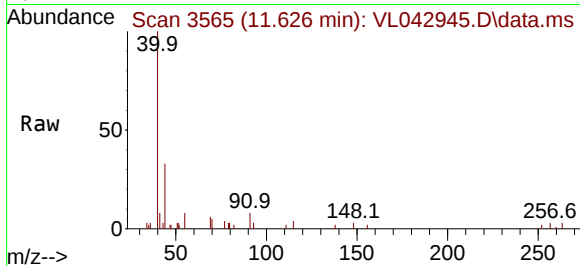




#66  
Benzyl Chloride  
Concen: 0.035 ppbv  
RT: 11.626 min Scan# 3180  
Delta R.T. 0.006 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

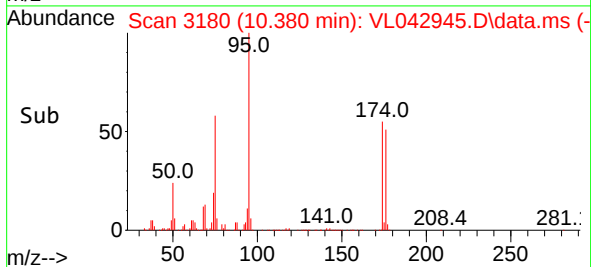
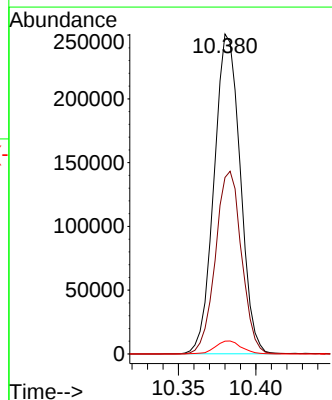
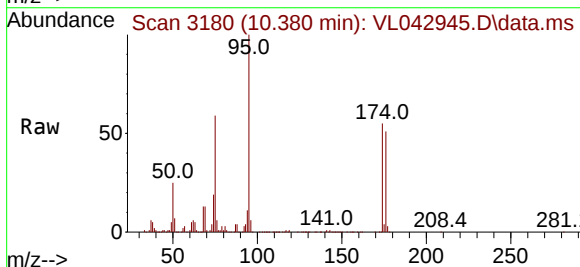
Instrument :  
MSVOA\_L  
ClientSampleId :

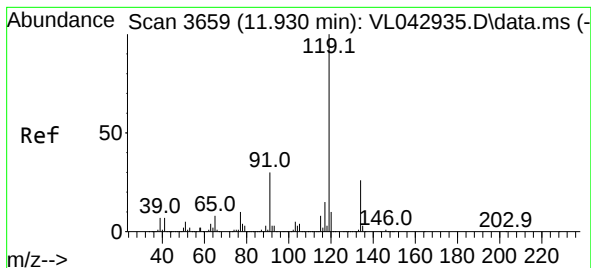
Tgt Ion: 91 Resp: 164  
Ion Ratio Lower Upper  
91 100  
126 0.0 13.9 20.9#  
128 0.0 4.9 7.3#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.012 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

Tgt Ion: 95 Resp: 294177  
Ion Ratio Lower Upper  
95 100  
174 57.2 44.9 67.3  
175 4.1 3.3 4.9





#69

p-Isopropyltoluene

Concen: 0.036 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.003 min

Lab File: VL042945.D

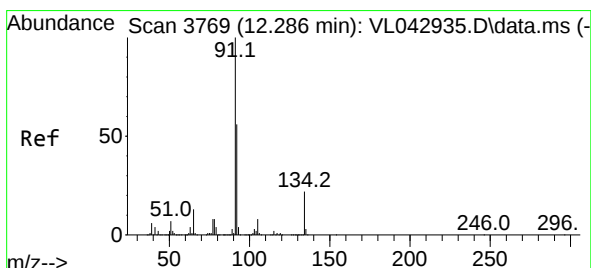
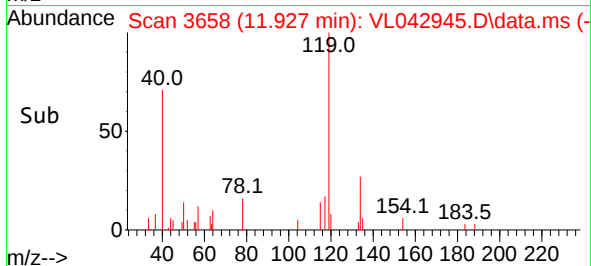
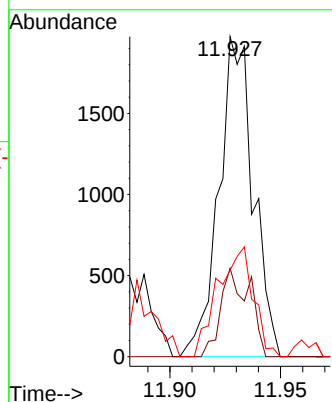
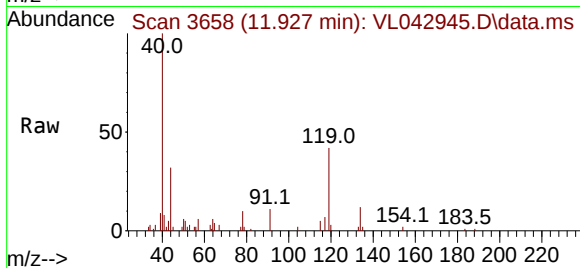
Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:119 | Resp: | 2132       |
| Ion Ratio   | Lower | Upper      |
| 119         | 100   |            |
| 134         | 23.1  | 20.5 30.7  |
| 91          | 38.3  | 23.2 34.8# |



#70

n-Butylbenzene

Concen: 0.305 ppbv

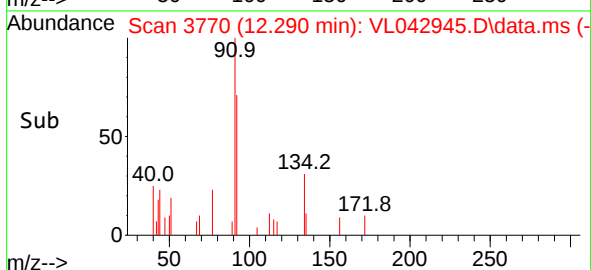
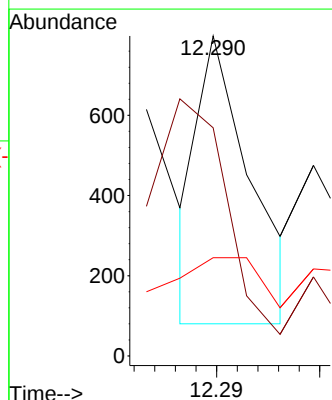
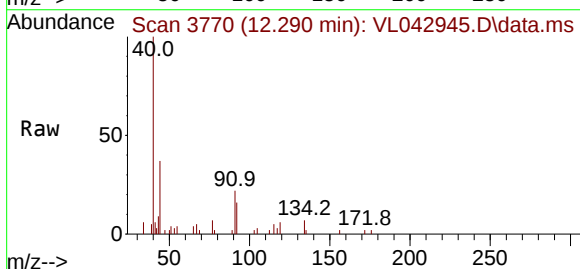
RT: 12.290 min Scan# 3770

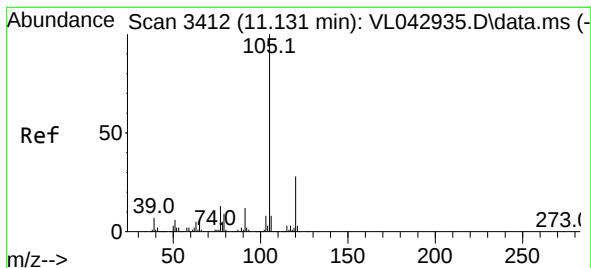
Delta R.T. 0.004 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

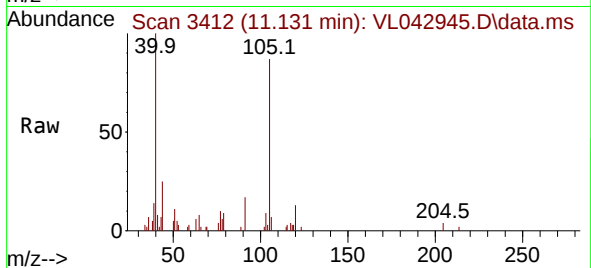
|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 91 | Resp: | 254        |
| Ion Ratio   | Lower | Upper      |
| 91          | 100   |            |
| 92          | 204.7 | 43.8 65.8# |
| 134         | 177.2 | 17.3 25.9# |



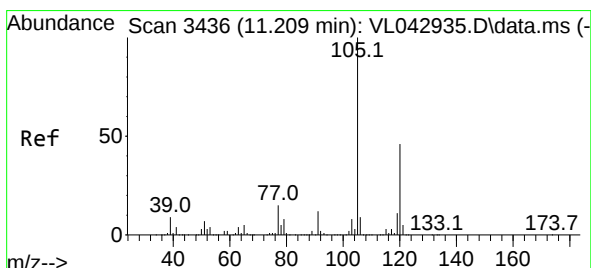
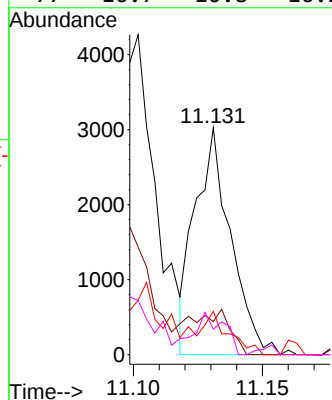
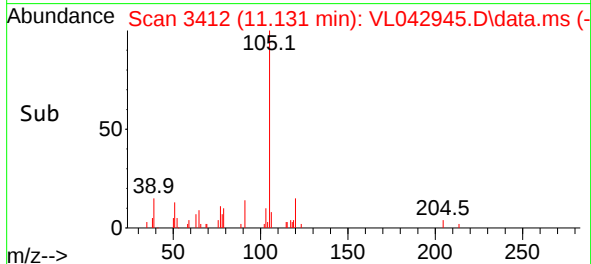


#72  
4-Ethyltoluene  
Concen: 0.407 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. -0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37

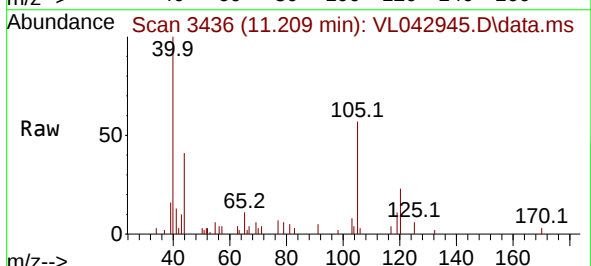
Instrument :  
MSVOA\_L  
ClientSampleId :



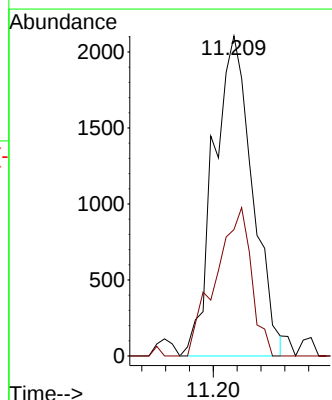
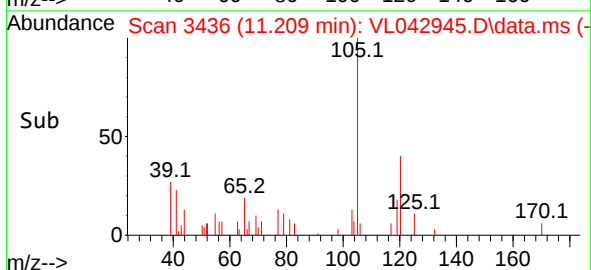
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:105 | Resp: | 2902       |
| Ion Ratio   | Lower | Upper      |
| 105         | 100   |            |
| 120         | 0.0   | 23.1 34.7# |
| 91          | 0.0   | 10.4 15.6# |
| 77          | 16.7  | 10.8 16.2# |

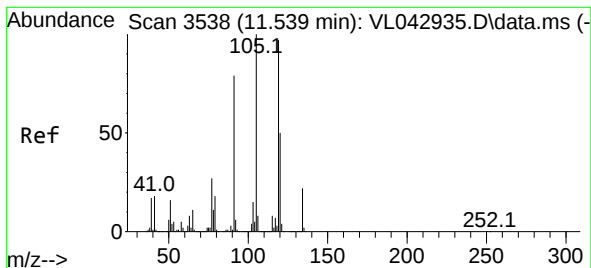


#73  
1,3,5-Trimethylbenzene  
Concen: 0.059 ppbv  
RT: 11.209 min Scan# 3436  
Delta R.T. 0.000 min  
Lab File: VL042945.D  
Acq: 18 Sep 2025 14:37



|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 2380      |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 39.5  | 37.0 55.6 |





#74

1,2,4-Trimethylbenzene

Concen: 0.192 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion:105 Resp: 9091

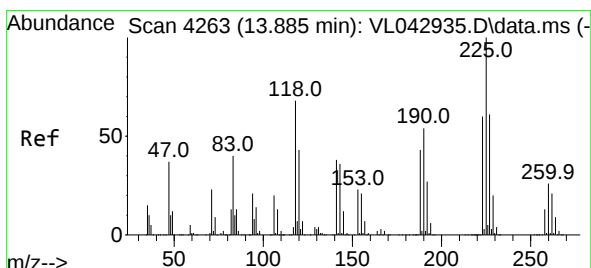
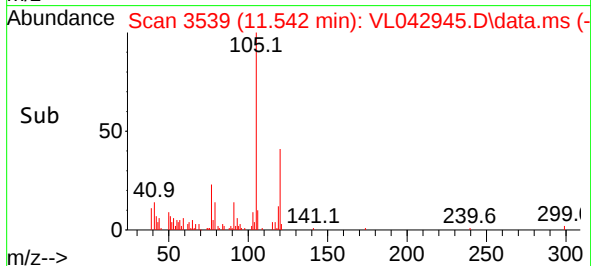
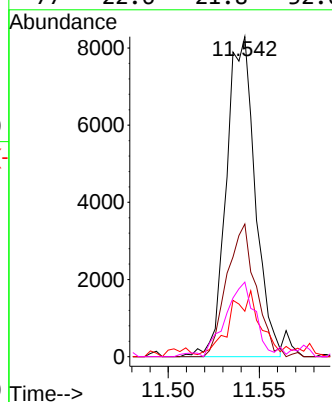
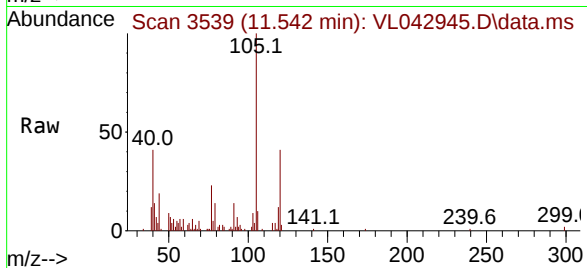
Ion Ratio Lower Upper

105 100

120 44.7 39.8 59.6

91 12.6 63.1 94.7#

77 22.6 21.8 32.6



#78

Hexachloro-1,3-Butadiene

Concen: 0.051 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

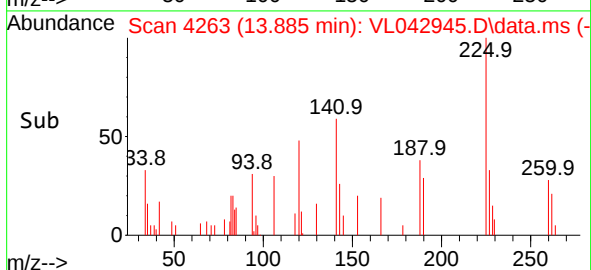
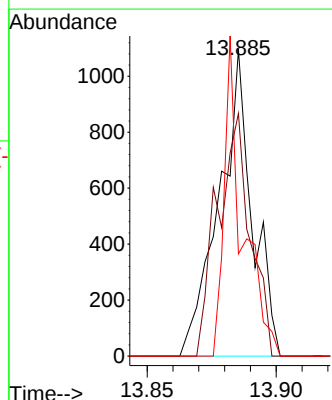
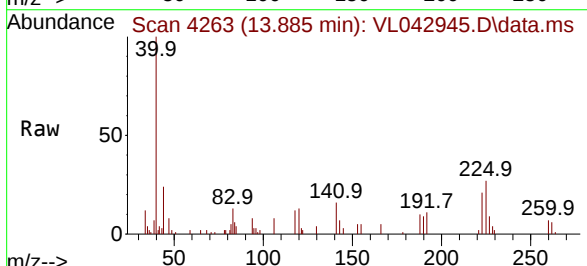
Tgt Ion:225 Resp: 977

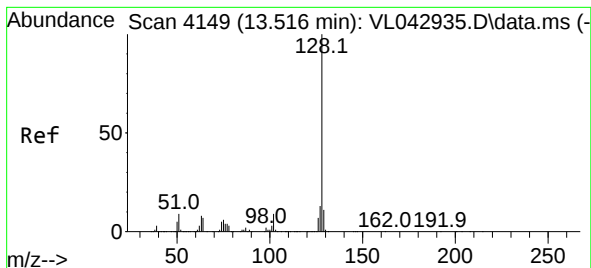
Ion Ratio Lower Upper

225 100

223 78.5 50.6 76.0#

227 57.4 50.5 75.7





#79

Naphthalene

Concen: 0.418 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042945.D

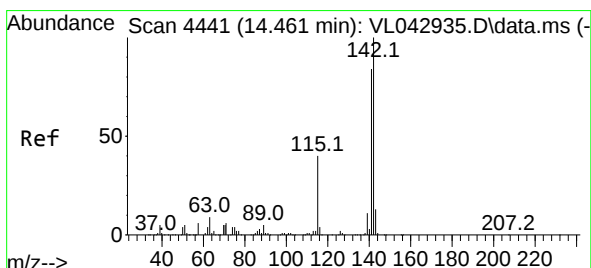
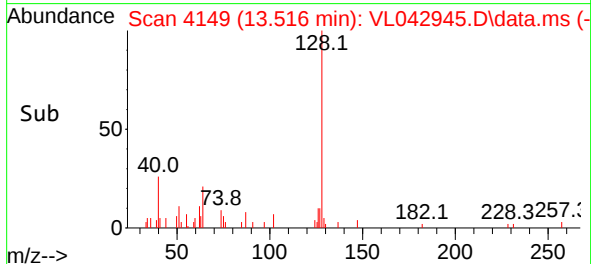
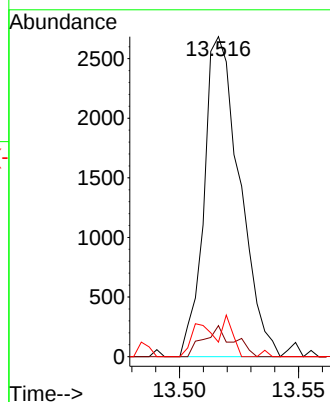
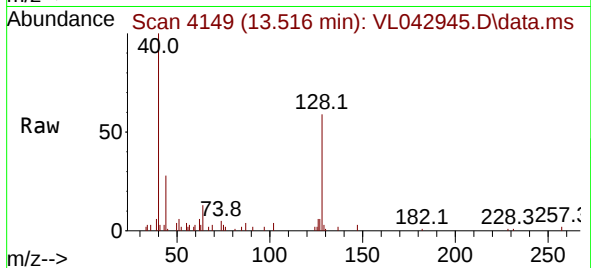
Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2794  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 9.7   | 10.3  | 15.5# |
| 129      | 4.5   | 8.7   | 13.1# |



#80

Naphthalene, 2-methyl-

Concen: 0.922 ppbv

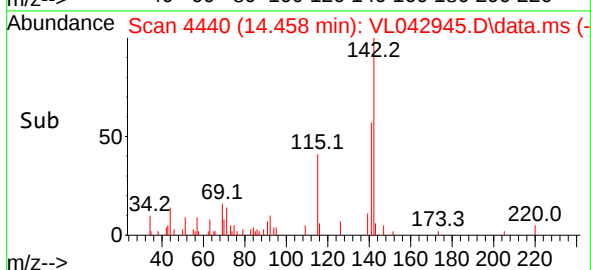
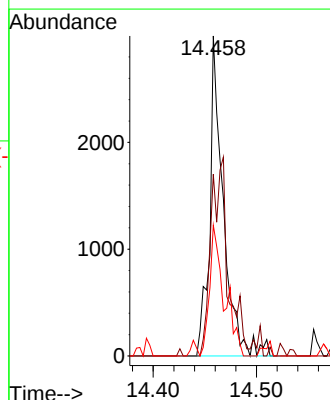
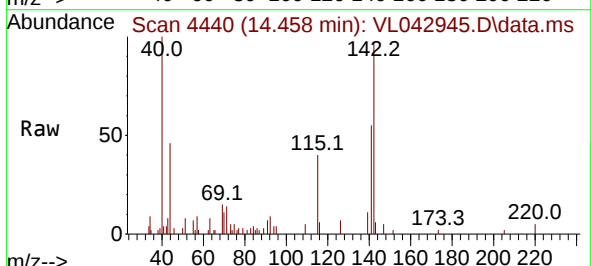
RT: 14.458 min Scan# 4440

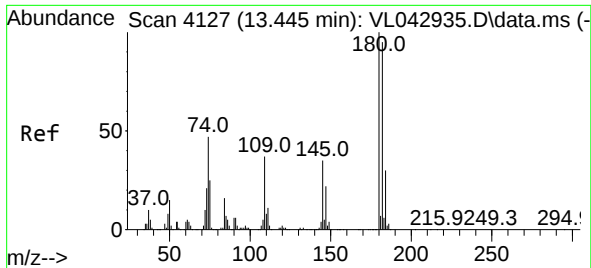
Delta R.T. -0.003 min

Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2751  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 84.1  | 67.0  | 100.6 |
| 115      | 45.8  | 32.0  | 48.0  |





#81

1,2,4-Trichlorobenzene

Concen: 0.466 ppbv

RT: 13.448 min Scan# 41

Delta R.T. 0.003 min

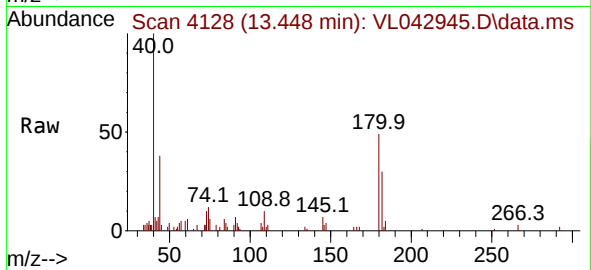
Lab File: VL042945.D

Acq: 18 Sep 2025 14:37

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion:180 Resp: 1025

Ion Ratio Lower Upper

180 100

182 112.0 75.5 113.3

184 42.9 24.6 37.0#

