

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042858.D  
 Acq On : 13 Aug 2025 18:58  
 Operator : SY/MD  
 Sample : Q2794-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Aug 14 02:21:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 02:12:54 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.794 | 49   | 131022   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.969 | 114  | 395826   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.892 | 117  | 339500   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95    | 261906   | 10.286   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.900% |

| Target Compounds              |        |     |        |        | Qvalue |     |
|-------------------------------|--------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 8128   | 0.423  | ppbv   | 96  |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 11167  | 0.526  | ppbv # | 84  |
| 4) Chloromethane              | 1.532  | 50  | 3462   | 0.447  | ppbv # | 81  |
| 6) Bromomethane               | 1.667  | 94  | 219    | 0.072  | ppbv # | 8   |
| 7) Chloroethane               | 1.710  | 64  | 74     | 0.025  | ppbv # | 39  |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85  | 340    | 0.022  | ppbv # | 79  |
| 9) Propene                    | 1.486  | 41  | 4738   | 0.517  | ppbv   | 90  |
| 10) Heptane                   | 4.991  | 43  | 1339   | 0.055  | ppbv # | 14  |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 3395   | 0.179  | ppbv   | 86  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101 | 769    | 0.051  | ppbv   | 87  |
| 13) Ethanol                   | 1.726  | 45  | 18765  | 22.389 | ppbv   | 90  |
| 15) Acetone                   | 1.839  | 43  | 123004 | 7.097  | ppbv   | 99  |
| 16) 1,3-Butadiene             | 1.622  | 39  | 2068   | 0.263  | ppbv # | 10  |
| 17) tert-Butyl alcohol        | 2.053  | 59  | 1467   | 0.071  | ppbv # | 54  |
| 19) Isopropyl Alcohol         | 1.891  | 45  | 13946  | 1.347  | ppbv # | 1   |
| 20) Methylene Chloride        | 2.066  | 84  | 2143   | 0.295  | ppbv # | 89  |
| 21) Allyl Chloride            | 2.101  | 41  | 402    | 0.033  | ppbv # | 31  |
| 23) Vinyl Acetate             | 2.477  | 43  | 6096   | 0.256  | ppbv # | 66  |
| 25) Ethyl Acetate             | 2.846  | 43  | 15686  | 0.374  | ppbv # | 92  |
| 26) Hexane                    | 2.833  | 57  | 4761   | 0.246  | ppbv # | 53  |
| 30) Cyclohexane               | 3.865  | 84  | 505    | 0.030  | ppbv # | 1   |
| 31) cis-1,2-Dichloroethene    | 2.839  | 61  | 890    | 0.046  | ppbv # | 22  |
| 34) 2-Butanone                | 2.567  | 43  | 16901  | 0.632  | ppbv   | 97  |
| 35) Carbon Tetrachloride      | 3.774  | 117 | 2003   | 0.073  | ppbv # | 78  |
| 36) Benzene                   | 3.664  | 78  | 15732  | 0.415  | ppbv   | 94  |
| 39) 1,2-Dichloropropane       | 3.969  | 63  | 98585  | 7.121  | ppbv # | 27  |
| 44) 2,2,4-Trimethylpentane    | 4.652  | 57  | 9292   | 0.144  | ppbv # | 64  |
| 53) Toluene                   | 6.950  | 91  | 20514  | 0.455  | ppbv   | 97  |
| 58) Ethyl Benzene             | 9.364  | 91  | 4587   | 0.077  | ppbv   | 96  |
| 59) m/p-Xylene                | 9.539  | 91  | 7689   | 0.164  | ppbv # | 100 |
| 60) o-Xylene                  | 9.973  | 91  | 3941   | 0.083  | ppbv   | 93  |
| 61) Styrene                   | 9.882  | 104 | 1190   | 0.054  | ppbv # | 34  |
| 69) p-Isopropyltoluene        | 11.931 | 119 | 1718   | 0.023  | ppbv # | 81  |
| 72) 4-Ethyltoluene            | 11.131 | 105 | 1557   | 0.027  | ppbv # | 59  |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105 | 1070   | 0.022  | ppbv   | 93  |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105 | 5116   | 0.096  | ppbv # | 54  |
| 75) 1,3-Dichlorobenzene       | 11.678 | 146 | 675    | 0.022  | ppbv   | 74  |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146 | 675    | 0.022  | ppbv   | 73  |
| 77) 1,2-Dichlorobenzene       | 11.678 | 146 | 675    | 0.023  | ppbv   | 76  |
| 79) Naphthalene               | 13.520 | 128 | 1029   | 0.021  | ppbv # | 77  |

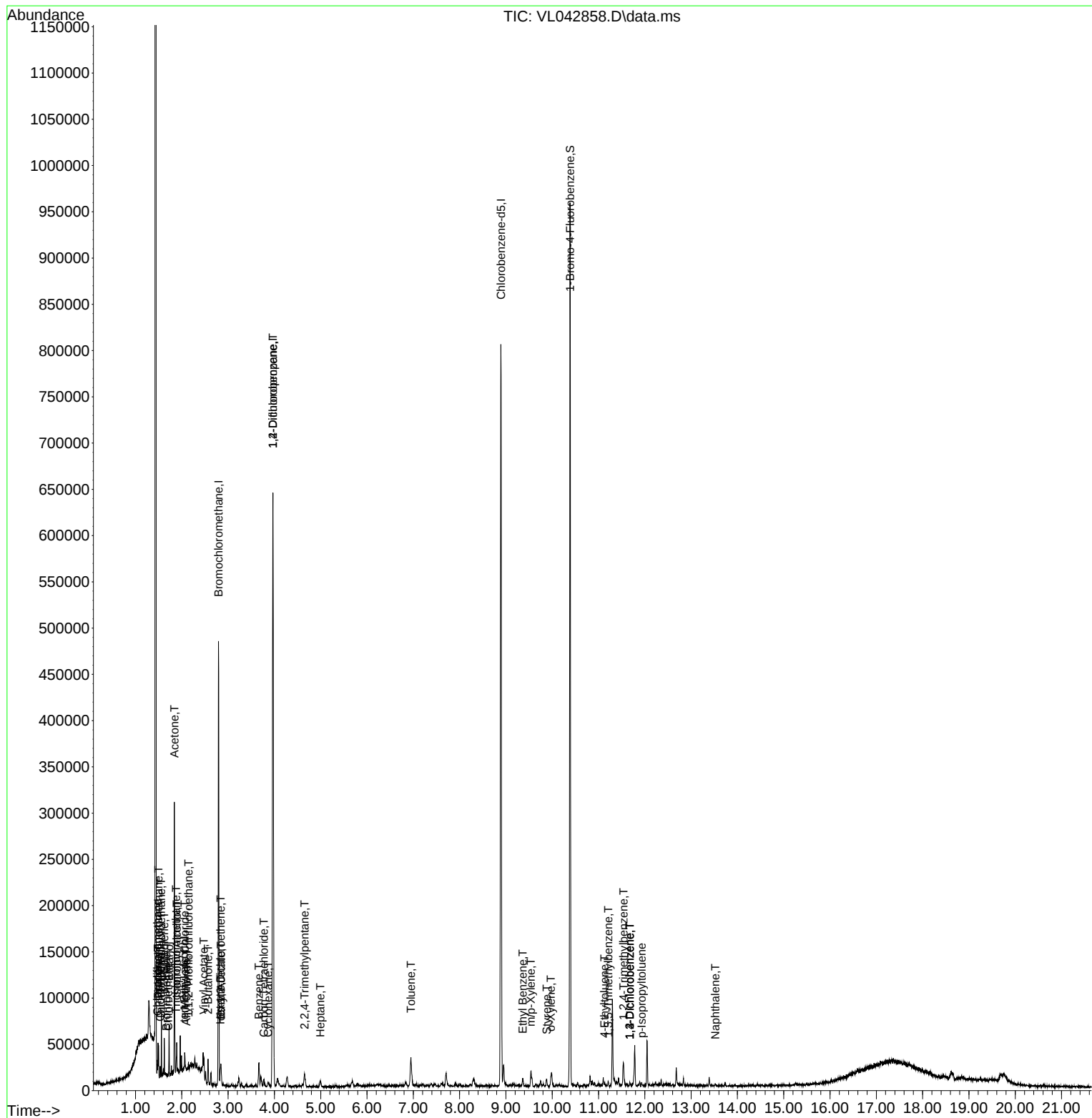
(#) = qualifier out of range (m) = manual integration (+) = signals summed

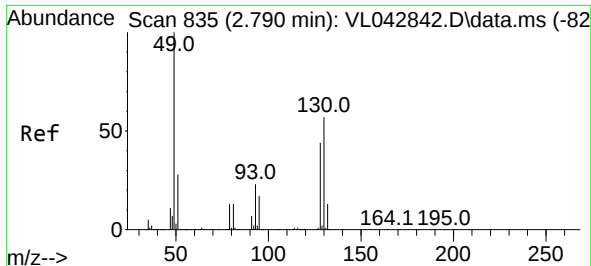
Instrument :  
MSVOA\_L  
ClientSampleId :

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042858.D  
Acq On : 13 Aug 2025 18:58  
Operator : SY/MD  
Sample : Q2794-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Aug 14 02:21:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 02:12:54 2025  
Response via : Initial Calibration

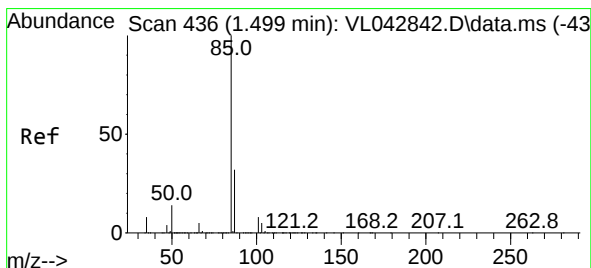
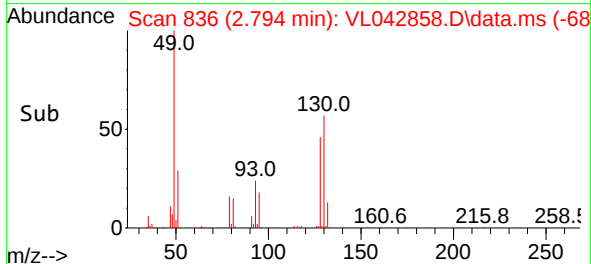
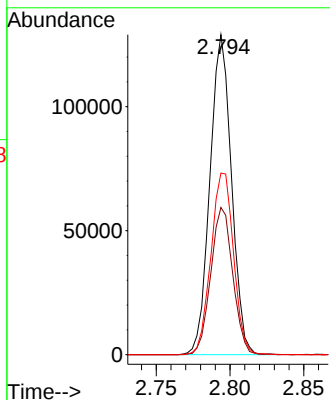
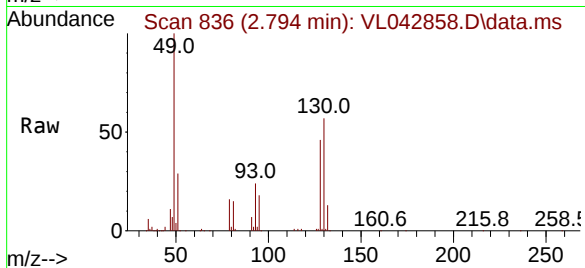




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 835  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

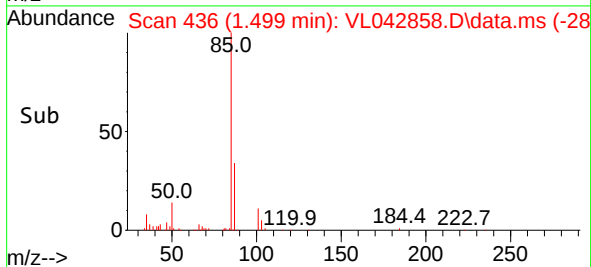
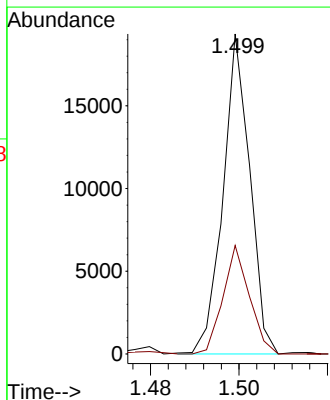
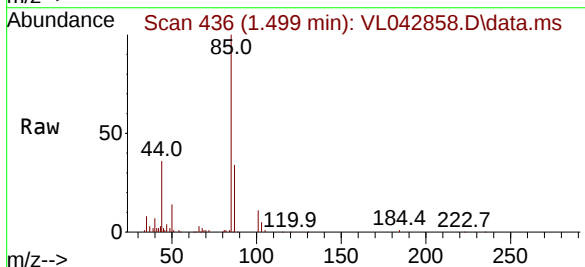
Instrument :  
MSVOA\_L  
ClientSampleId :

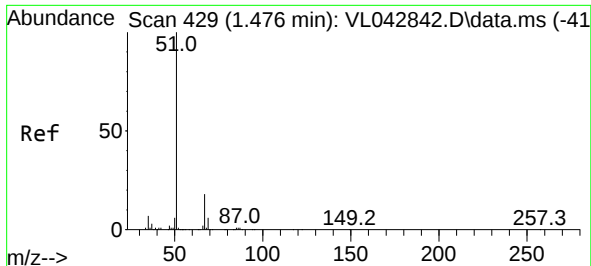
Tgt Ion: 49 Resp: 131022  
Ion Ratio Lower Upper  
49 100  
128 47.1 23.7 71.1  
130 59.7 30.6 91.6



#2  
Dichlorodifluoromethane  
Concen: 0.423 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 85 Resp: 8128  
Ion Ratio Lower Upper  
85 100  
87 33.9 25.3 37.9

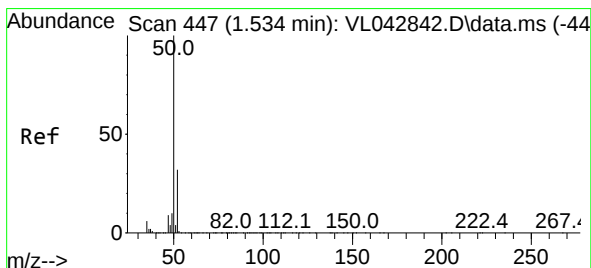
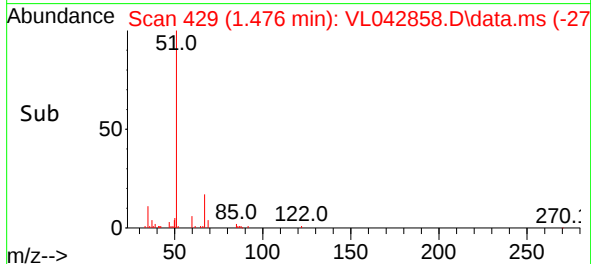
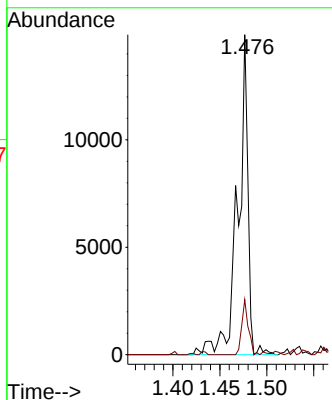
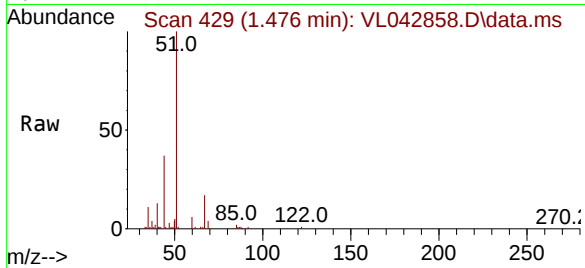




#3  
 Chlorodifluoromethane  
 Concen: 0.526 ppbv  
 RT: 1.476 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

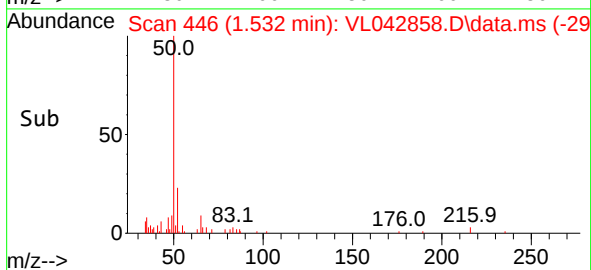
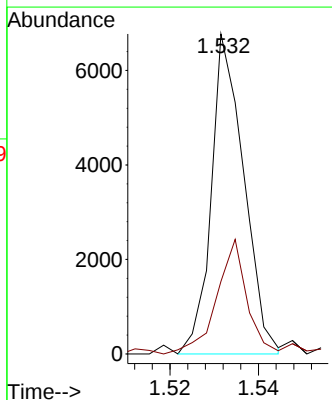
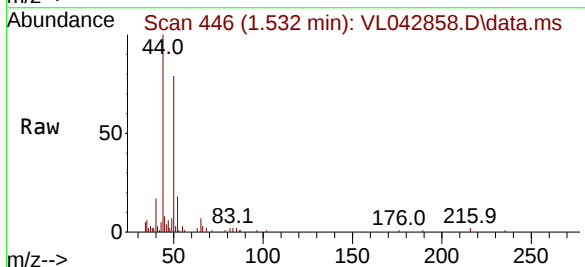
Instrument :  
 MSVOA\_L  
 ClientSampleId :

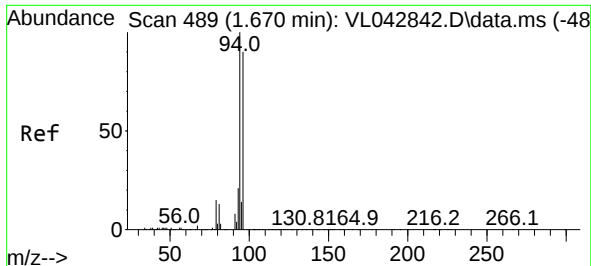
Tgt Ion: 51 Resp: 11167  
 Ion Ratio Lower Upper  
 51 100  
 67 11.5 14.9 22.3#



#4  
 Chloromethane  
 Concen: 0.447 ppbv  
 RT: 1.532 min Scan# 446  
 Delta R.T. -0.003 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

Tgt Ion: 50 Resp: 3462  
 Ion Ratio Lower Upper  
 50 100  
 52 21.6 25.9 38.9#

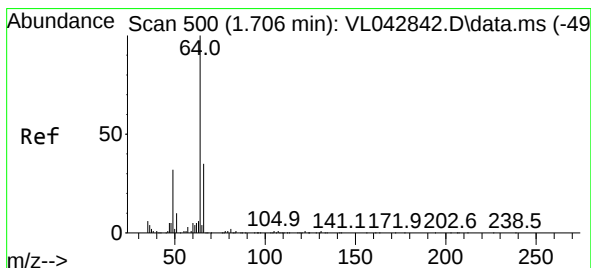
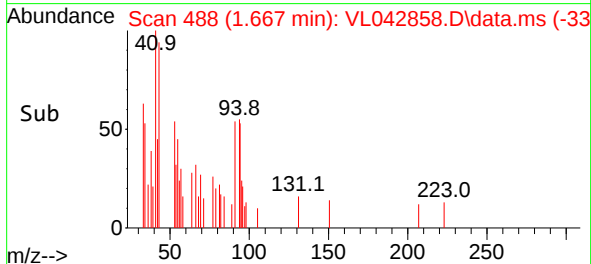
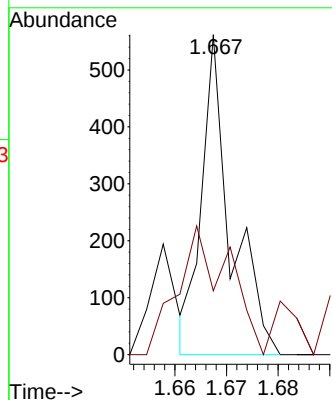
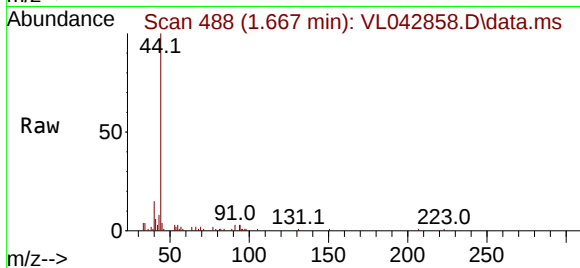




#6  
Bromomethane  
Concen: 0.072 ppbv  
RT: 1.667 min Scan# 488  
Delta R.T. -0.003 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

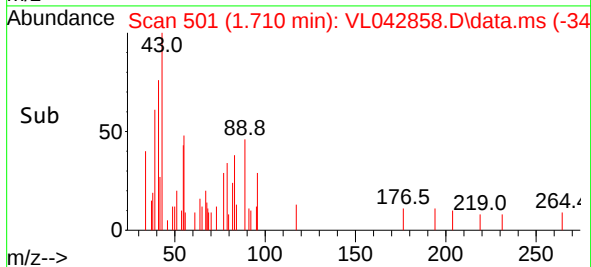
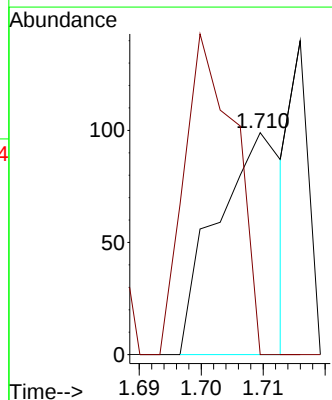
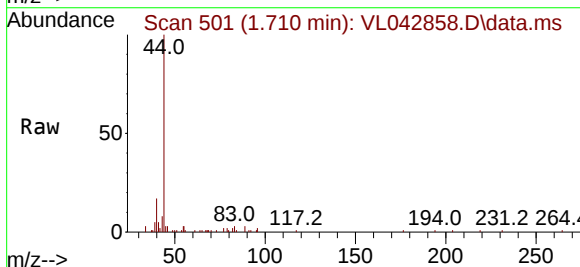
Instrument :  
MSVOA\_L  
ClientSampleId :

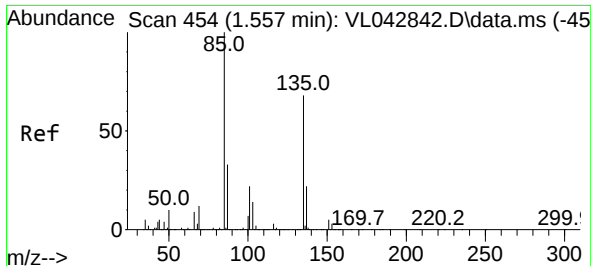
Tgt Ion: 94 Resp: 219  
Ion Ratio Lower Upper  
94 100  
96 3.2 72.1 108.1#



#7  
Chloroethane  
Concen: 0.025 ppbv  
RT: 1.710 min Scan# 501  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 64 Resp: 74  
Ion Ratio Lower Upper  
64 100  
66 0.0 28.6 42.8#

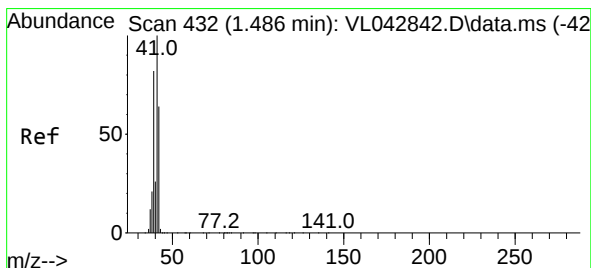
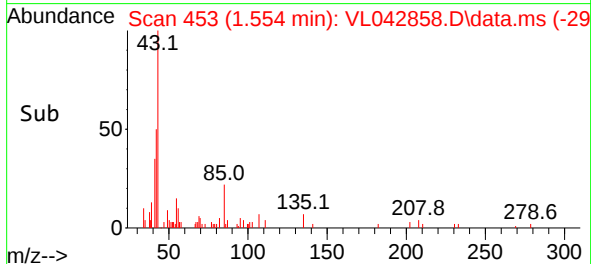
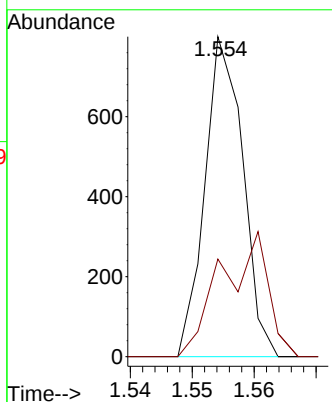
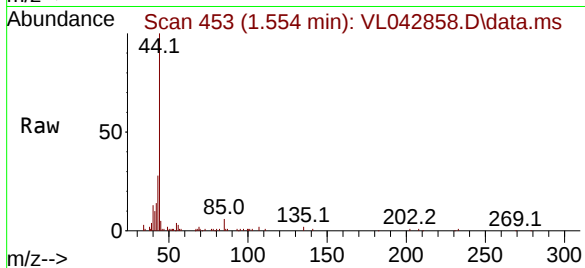




#8  
 Dichlorotetrafluoroethane  
 Concen: 0.022 ppbv  
 RT: 1.554 min Scan# 453  
 Delta R.T. -0.003 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

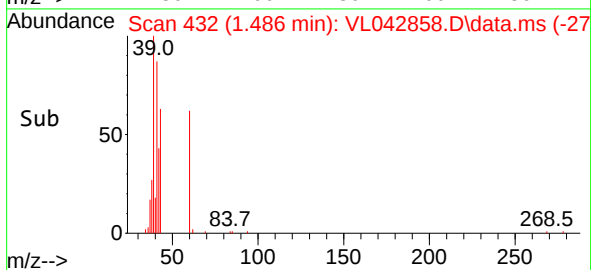
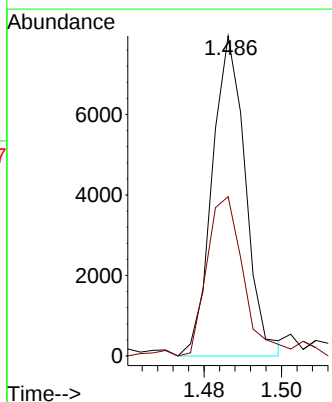
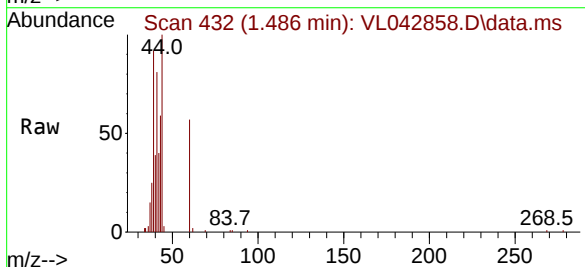
Instrument :  
 MSVOA\_L  
 ClientSampleId :

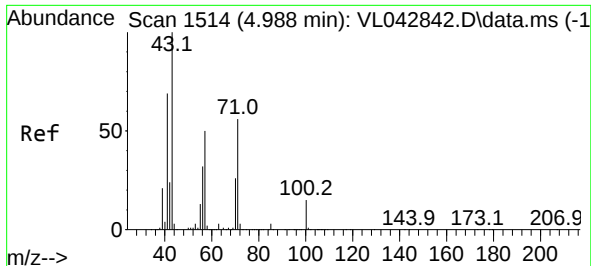
Tgt Ion: 85 Resp: 340  
 Ion Ratio Lower Upper  
 85 100  
 135 47.9 51.2 76.8#



#9  
 Propene  
 Concen: 0.517 ppbv  
 RT: 1.486 min Scan# 432  
 Delta R.T. 0.000 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

Tgt Ion: 41 Resp: 4738  
 Ion Ratio Lower Upper  
 41 100  
 42 58.3 53.0 79.4

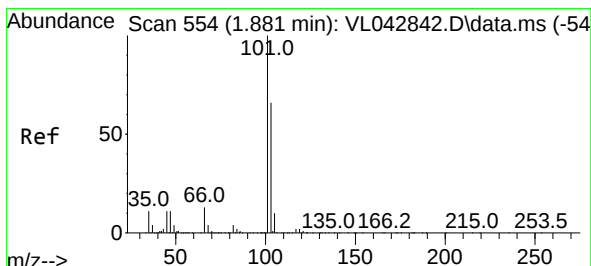
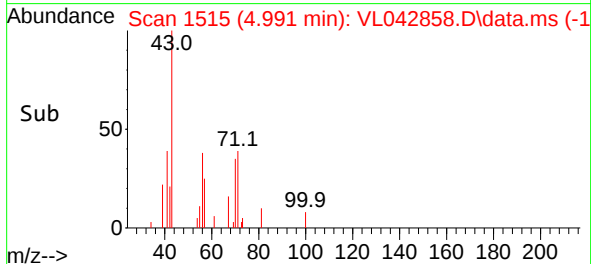
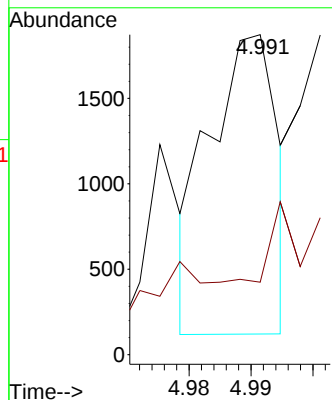
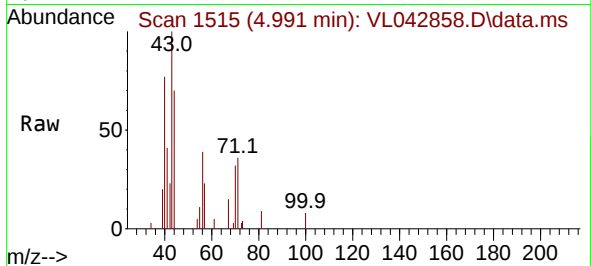




#10  
Heptane  
Concen: 0.055 ppbv  
RT: 4.991 min Scan# 11  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

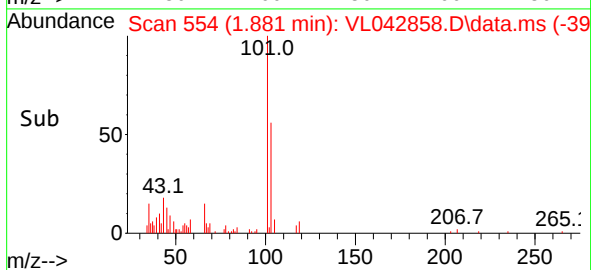
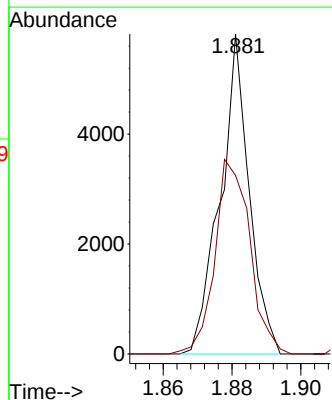
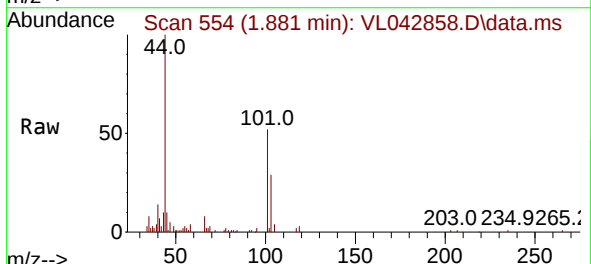
Instrument :  
MSVOA\_L  
ClientSampleId :

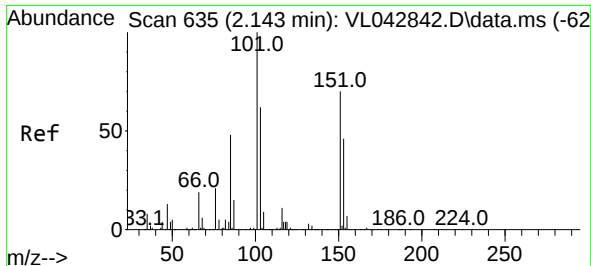
Tgt Ion: 43 Resp: 1339  
Ion Ratio Lower Upper  
43 100  
57 112.2 41.4 62.0#



#11  
Trichlorofluoromethane  
Concen: 0.179 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion:101 Resp: 3395  
Ion Ratio Lower Upper  
101 100  
103 54.9 52.5 78.7

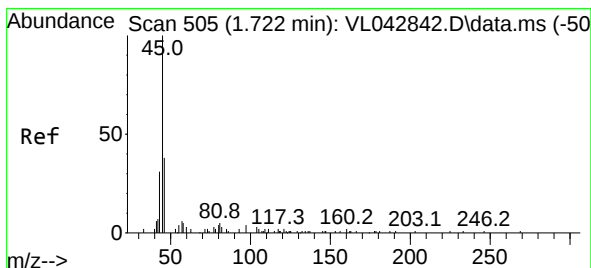
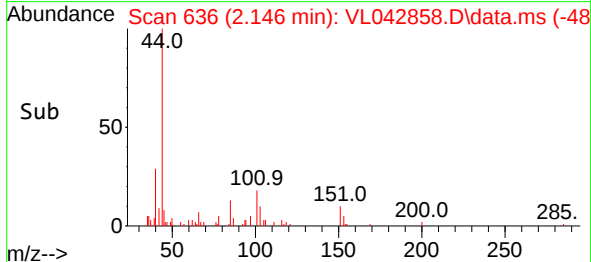
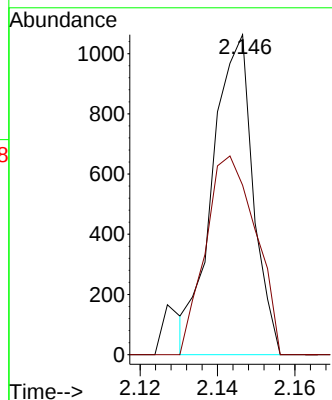
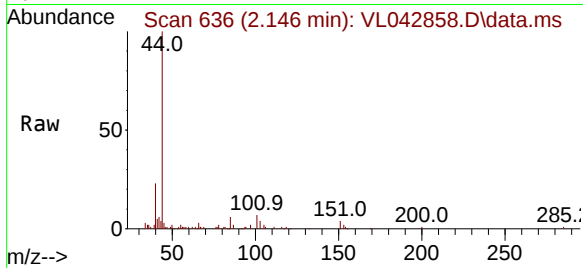




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.051 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

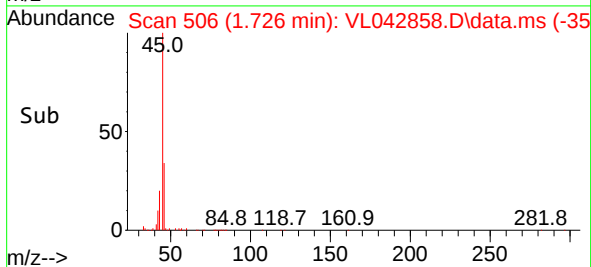
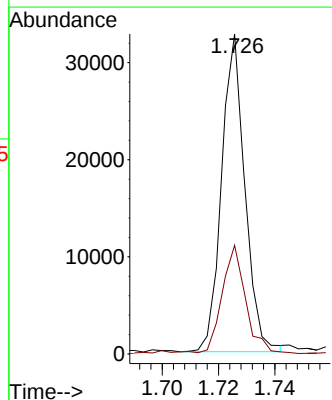
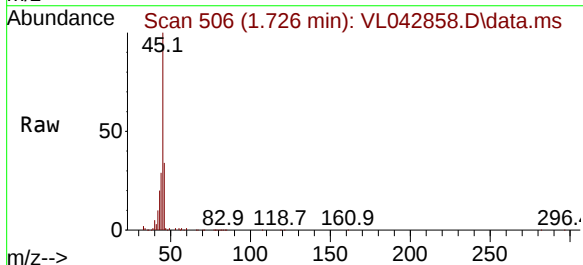
Instrument :  
MSVOA\_L  
ClientSampleId :

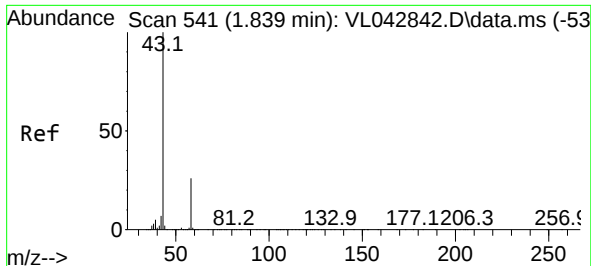
Tgt Ion:101 Resp: 769  
Ion Ratio Lower Upper  
101 100  
151 81.3 56.4 84.6



#13  
Ethanol  
Concen: 22.389 ppbv  
RT: 1.726 min Scan# 506  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 45 Resp: 18765  
Ion Ratio Lower Upper  
45 100  
46 37.4 17.5 69.9

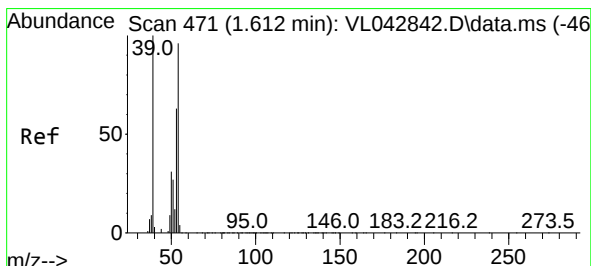
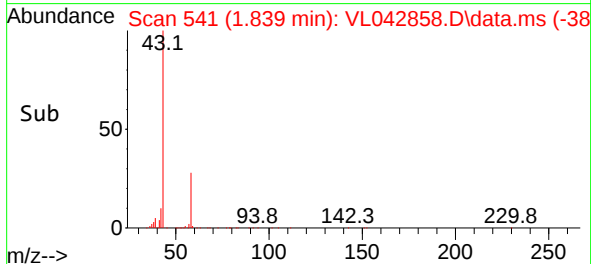
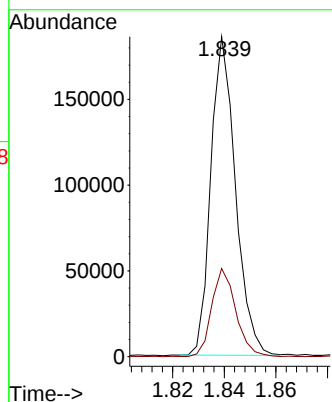
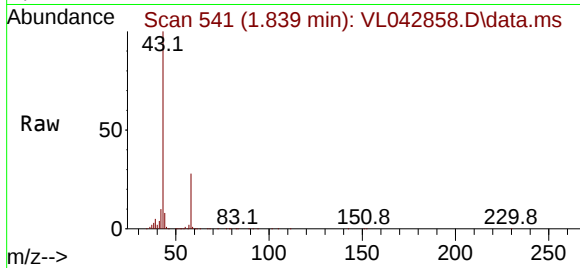




#15  
Acetone  
Concen: 7.097 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

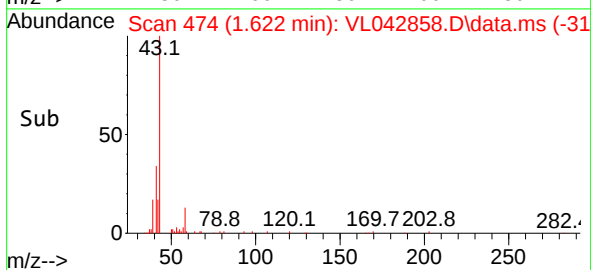
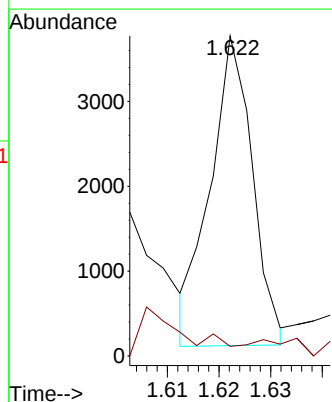
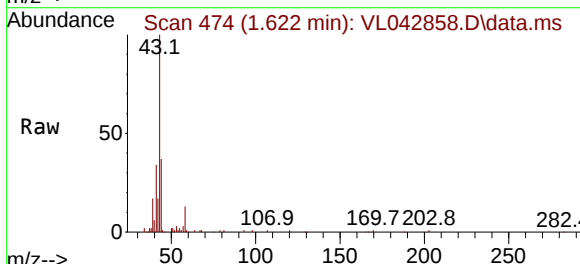
Instrument :  
MSVOA\_L  
ClientSampleId :

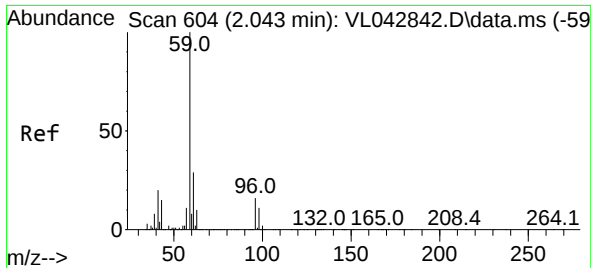
Tgt Ion: 43 Resp: 123004  
Ion Ratio Lower Upper  
43 100  
58 27.6 22.4 33.6



#16  
1,3-Butadiene  
Concen: 0.263 ppbv  
RT: 1.622 min Scan# 474  
Delta R.T. 0.010 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 39 Resp: 2068  
Ion Ratio Lower Upper  
39 100  
54 0.0 63.6 95.4#

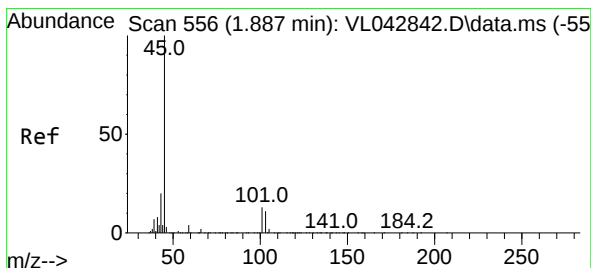
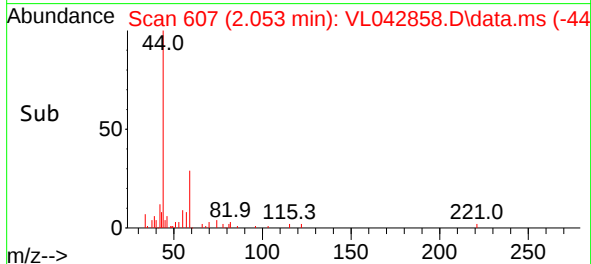
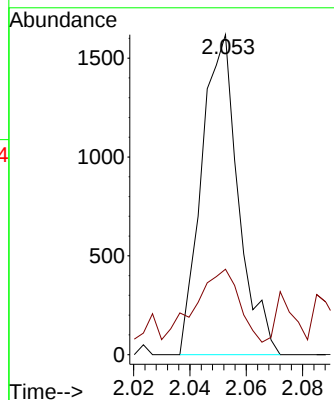
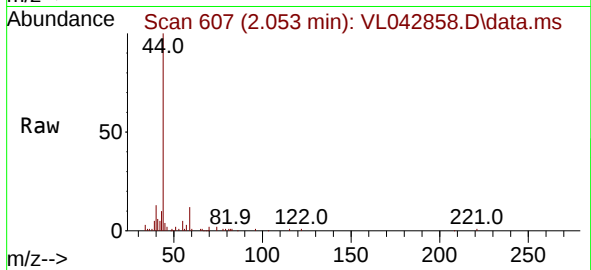




#17  
tert-Butyl alcohol  
Concen: 0.071 ppbv  
RT: 2.053 min Scan# 604  
Delta R.T. 0.010 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

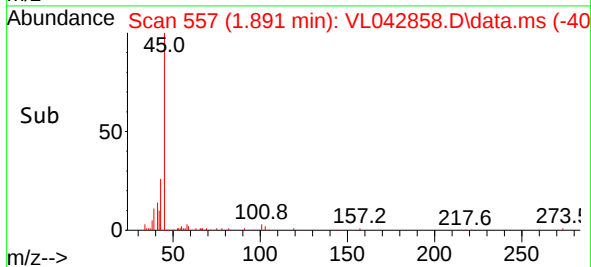
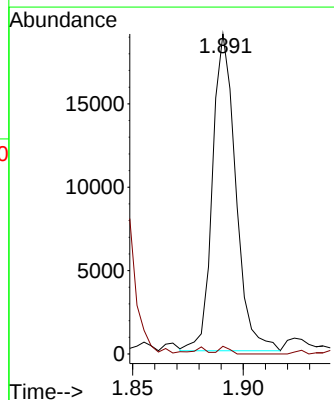
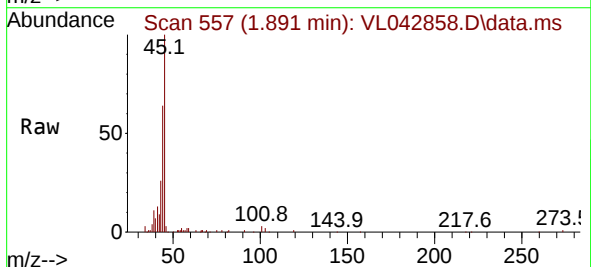
Instrument :  
MSVOA\_L  
ClientSampleId :

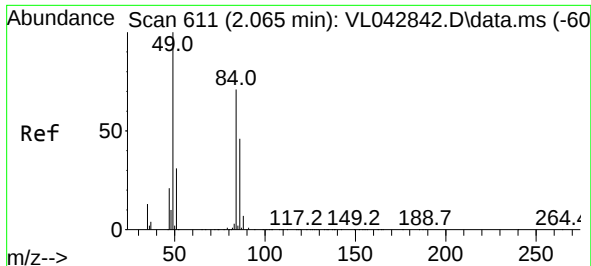
Tgt Ion: 59 Resp: 1467  
Ion Ratio Lower Upper  
59 100  
57 28.6 9.0 13.4#



#19  
Isopropyl Alcohol  
Concen: 1.347 ppbv  
RT: 1.891 min Scan# 557  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 45 Resp: 13946  
Ion Ratio Lower Upper  
45 100  
58 243.0 32.7 49.1#





#20

Methylene Chloride

Concen: 0.295 ppbv

RT: 2.066 min Scan# 611

Delta R.T. 0.000 min

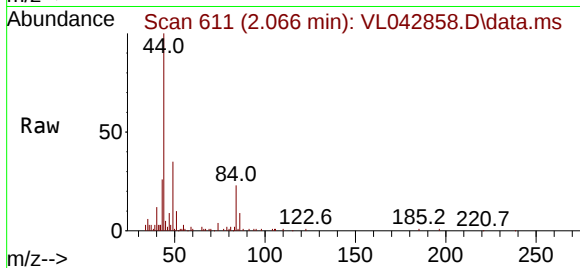
Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion: 84 Resp: 2143

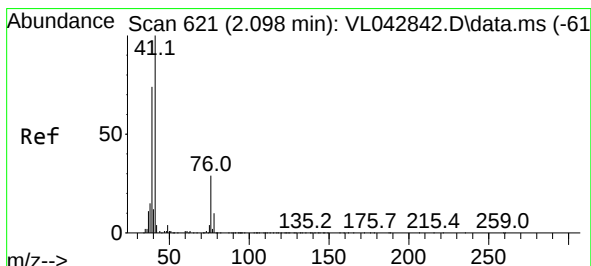
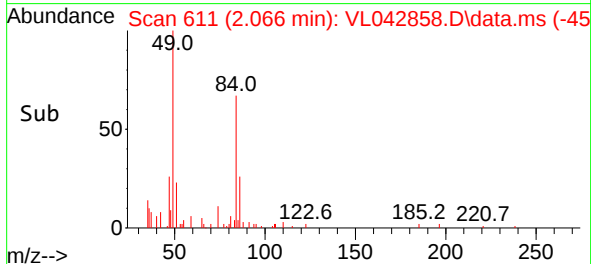
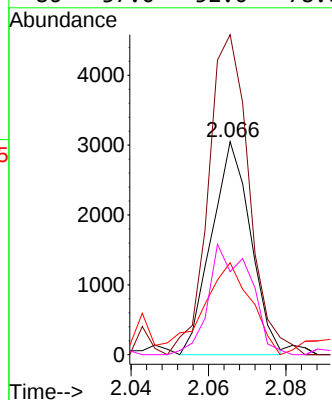
Ion Ratio Lower Upper

84 100

49 142.2 112.3 168.5

51 43.2 36.0 54.0

86 37.0 52.0 78.0#



#21

Allyl Chloride

Concen: 0.033 ppbv

RT: 2.101 min Scan# 622

Delta R.T. 0.004 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

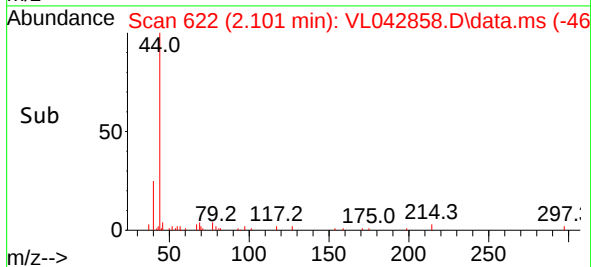
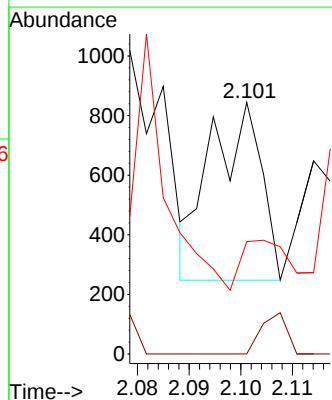
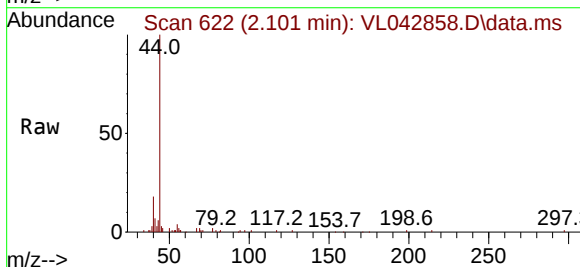
Tgt Ion: 41 Resp: 402

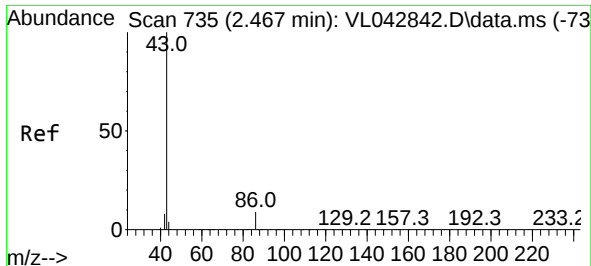
Ion Ratio Lower Upper

41 100

76 14.9 23.9 35.9#

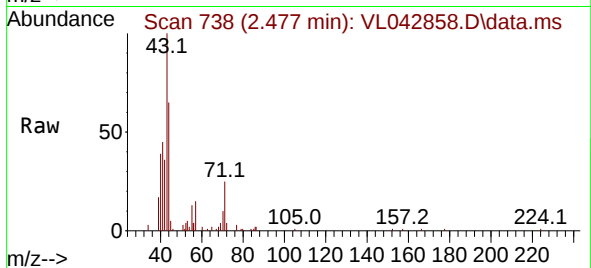
39 0.0 57.8 86.6#





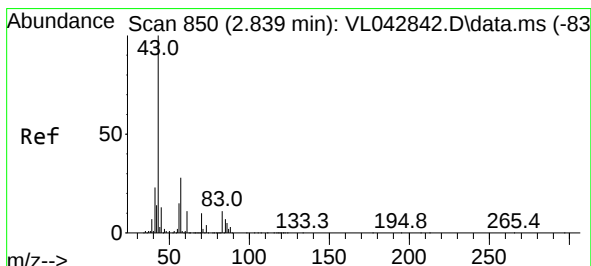
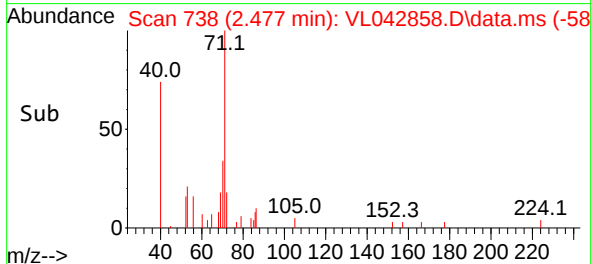
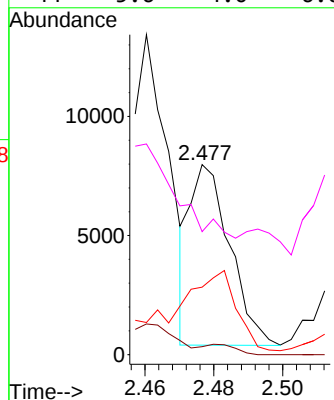
#23  
 Vinyl Acetate  
 Concen: 0.256 ppbv  
 RT: 2.477 min Scan# 71  
 Delta R.T. 0.010 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion: 43 Resp: 6096

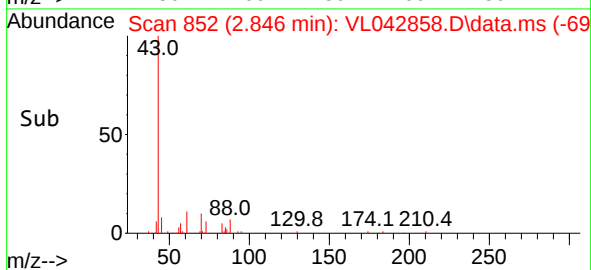
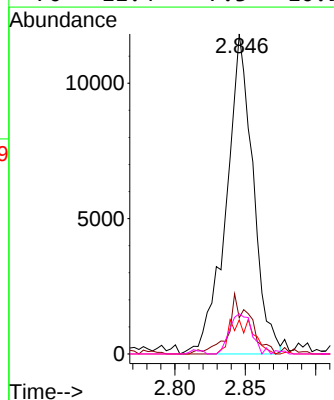
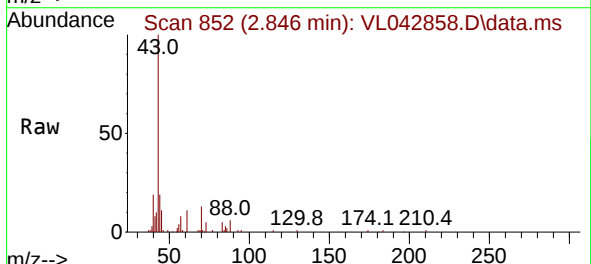
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 4.4   | 6.6   | 9.8#  |
| 42  | 35.1  | 7.0   | 10.6# |
| 44  | 5.6   | 4.0   | 6.0   |

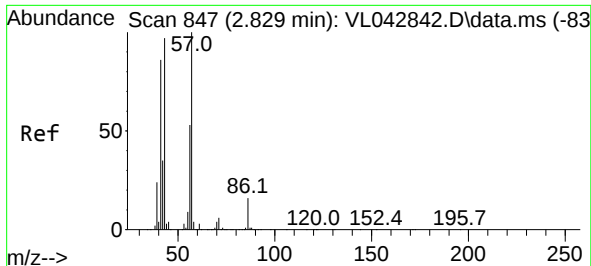


#25  
 Ethyl Acetate  
 Concen: 0.374 ppbv  
 RT: 2.846 min Scan# 852  
 Delta R.T. 0.007 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

Tgt Ion: 43 Resp: 15686

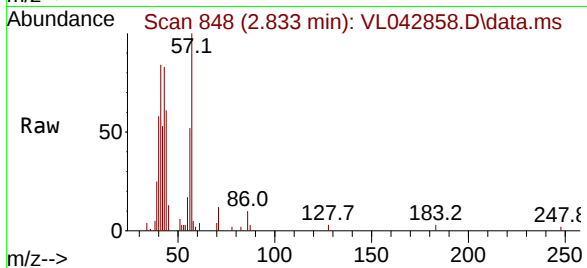
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 16.2  | 8.1   | 12.1# |
| 61  | 9.8   | 7.4   | 11.2  |
| 70  | 11.4  | 7.3   | 10.9# |



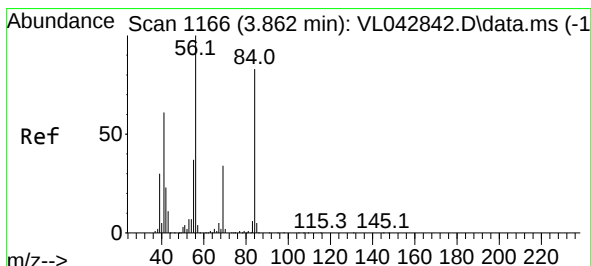
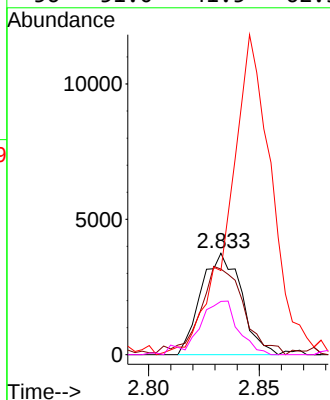
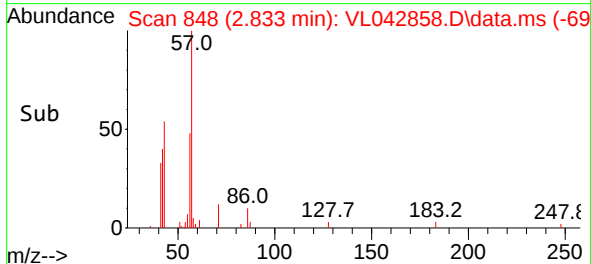


#26  
Hexane  
Concen: 0.246 ppbv  
RT: 2.833 min Scan# 847  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

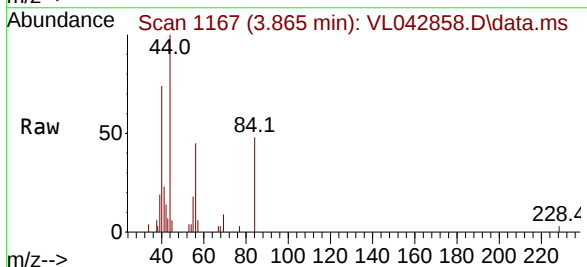
Instrument :  
MSVOA\_L  
ClientSampleId :



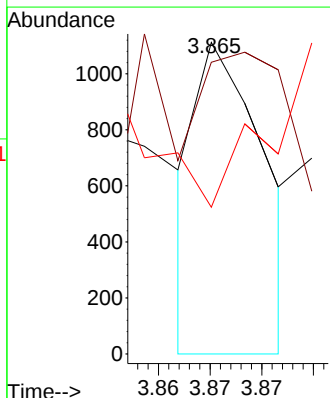
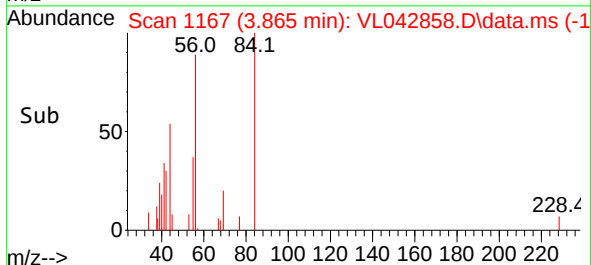
Tgt Ion: 57 Resp: 4761  
Ion Ratio Lower Upper  
57 100  
41 96.7 68.6 103.0  
43 324.9 168.5 252.7#  
56 51.0 41.5 62.3

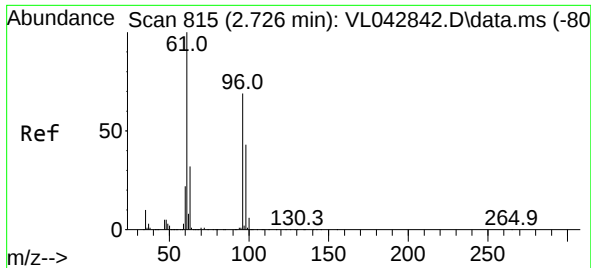


#30  
Cyclohexane  
Concen: 0.030 ppbv  
RT: 3.865 min Scan# 1167  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58



Tgt Ion: 84 Resp: 505  
Ion Ratio Lower Upper  
84 100  
56 0.0 98.8 148.2#  
41 0.0 61.3 91.9#

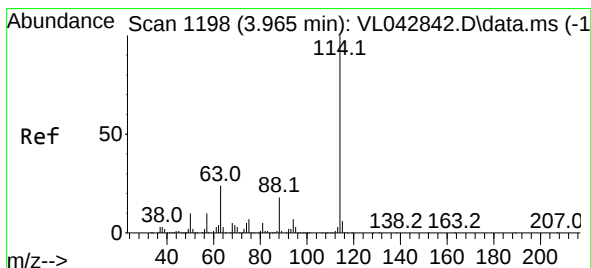
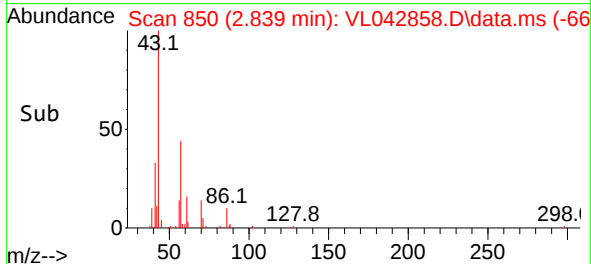
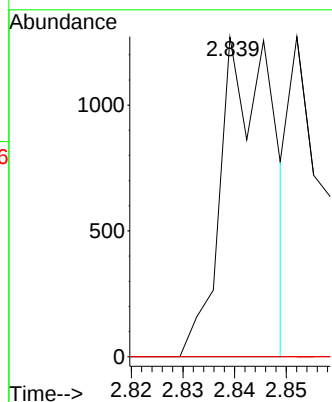
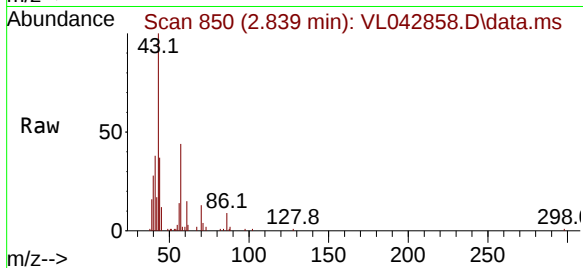




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.046 ppbv  
 RT: 2.839 min Scan# 815  
 Delta R.T. 0.114 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

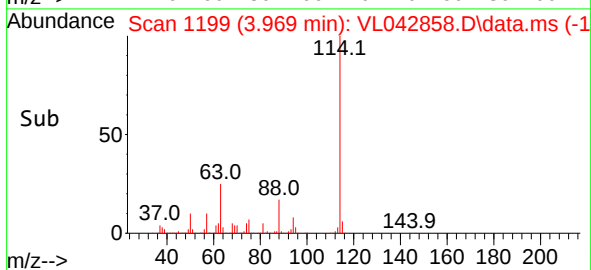
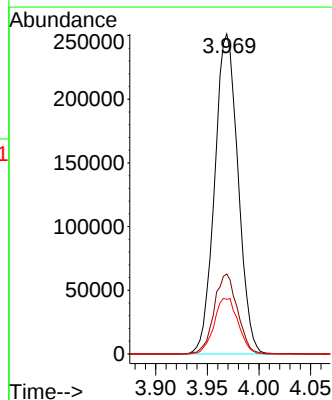
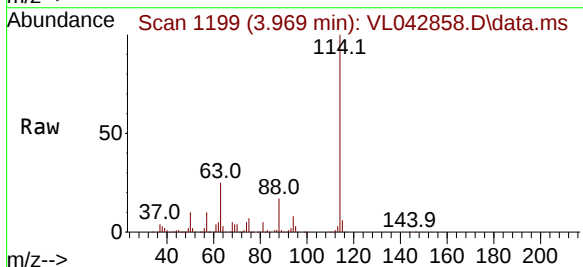
Instrument :  
 MSVOA\_L  
 ClientSampleId :

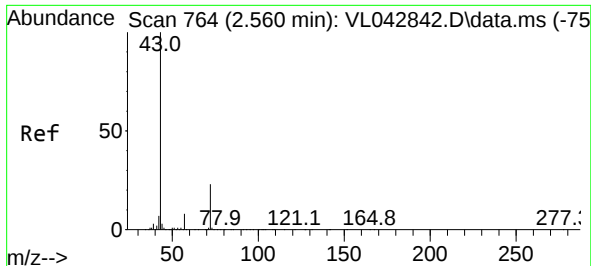
Tgt Ion: 61 Resp: 890  
 Ion Ratio Lower Upper  
 61 100  
 96 0.0 55.0 82.6#  
 98 0.0 34.3 51.5#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.969 min Scan# 1199  
 Delta R.T. 0.004 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

Tgt Ion: 114 Resp: 395826  
 Ion Ratio Lower Upper  
 114 100  
 63 24.9 19.7 29.5  
 88 17.9 14.4 21.6

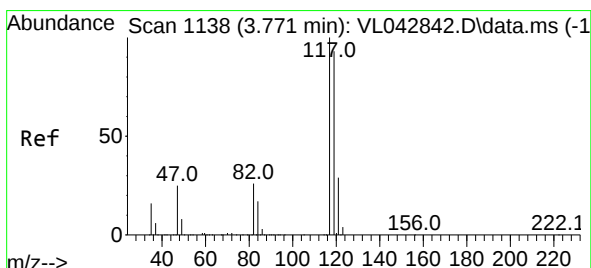
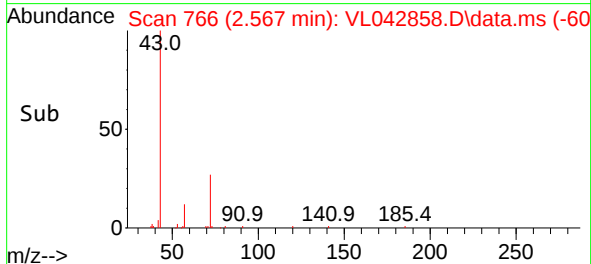
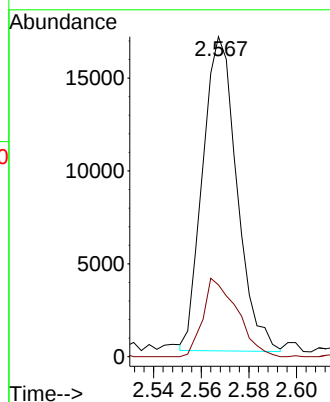
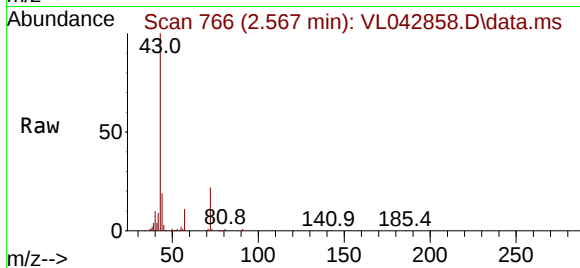




#34  
2-Butanone  
Concen: 0.632 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.007 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

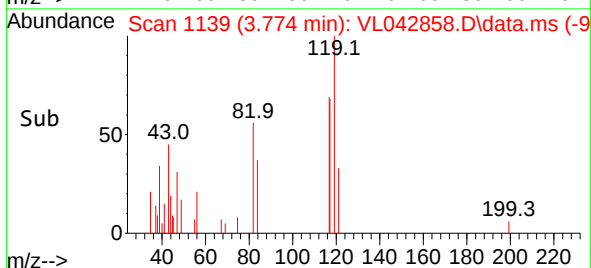
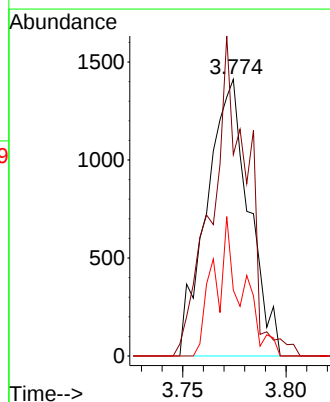
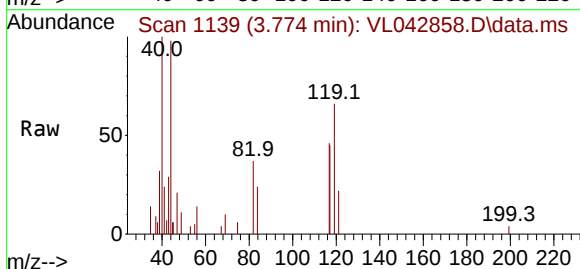
Instrument :  
MSVOA\_L  
ClientSampleId :

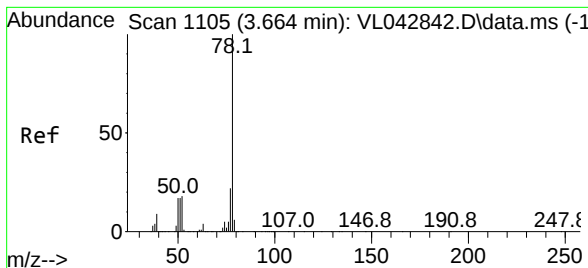
Tgt Ion: 43 Resp: 16901  
Ion Ratio Lower Upper  
43 100  
72 24.9 18.6 28.0



#35  
Carbon Tetrachloride  
Concen: 0.073 ppbv  
RT: 3.774 min Scan# 1139  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 117 Resp: 2003  
Ion Ratio Lower Upper  
117 100  
119 68.4 74.7 112.1#  
121 23.8 23.2 34.8





#36

Benzene

Concen: 0.415 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA\_L

ClientSampleId :

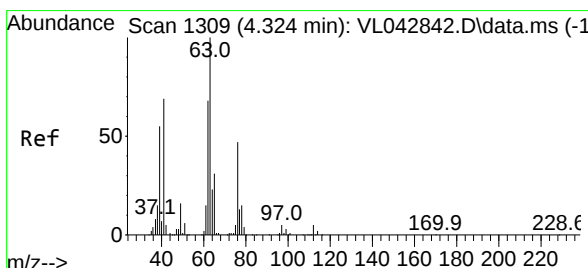
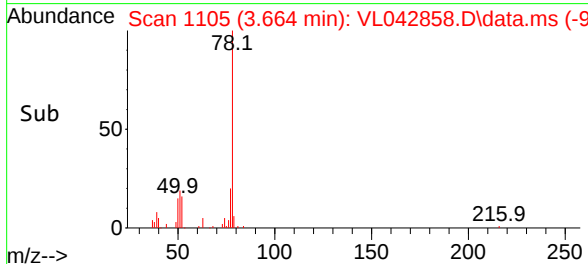
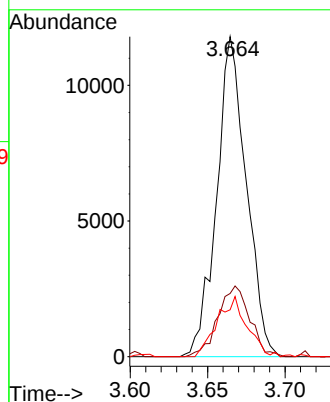
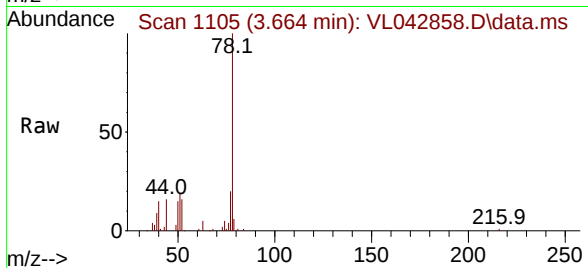
Tgt Ion: 78 Resp: 15732

Ion Ratio Lower Upper

78 100

77 19.8 17.7 26.5

50 14.6 13.9 20.9



#39

1,2-Dichloropropane

Concen: 7.121 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. -0.356 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

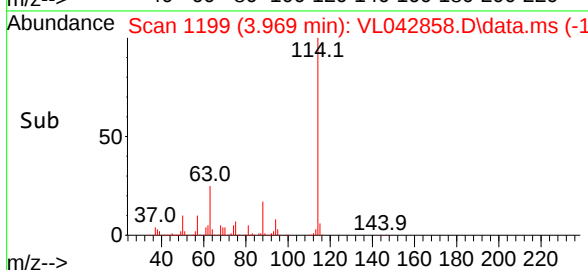
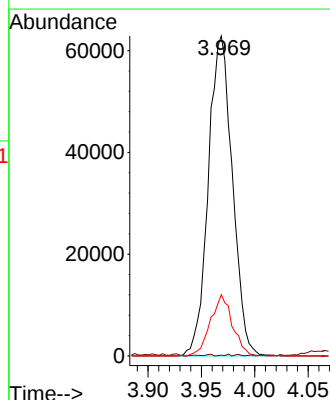
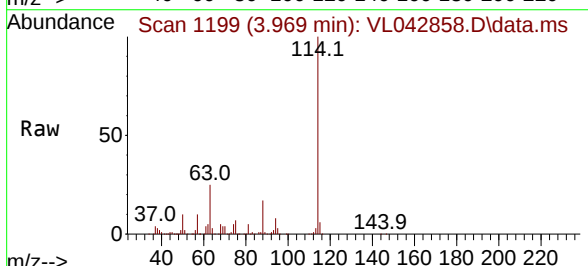
Tgt Ion: 63 Resp: 98585

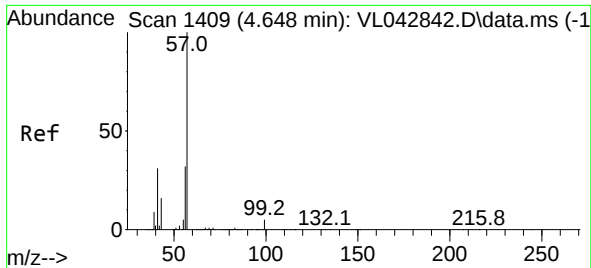
Ion Ratio Lower Upper

63 100

41 0.0 55.0 82.4#

62 19.0 54.4 81.6#

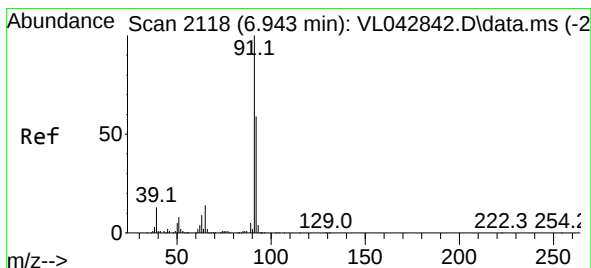
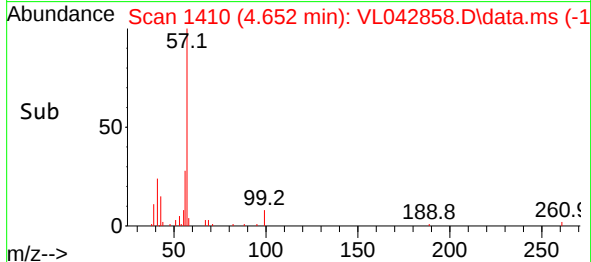
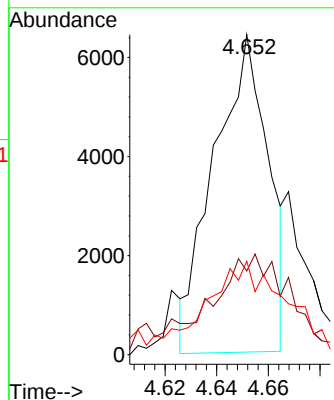
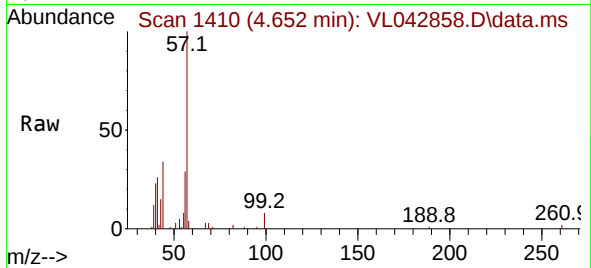




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.144 ppbv  
 RT: 4.652 min Scan# 1409  
 Delta R.T. 0.004 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

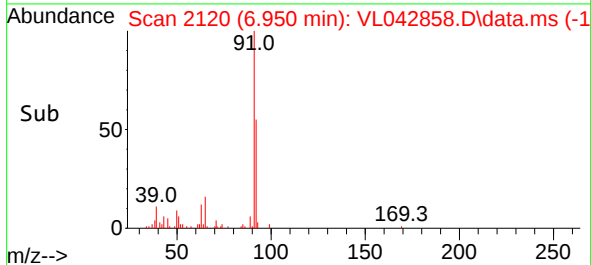
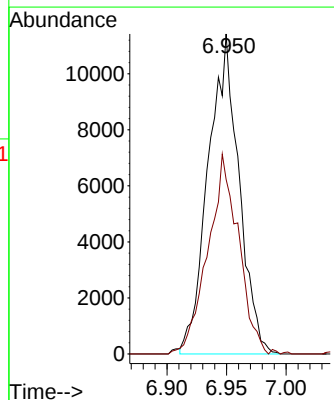
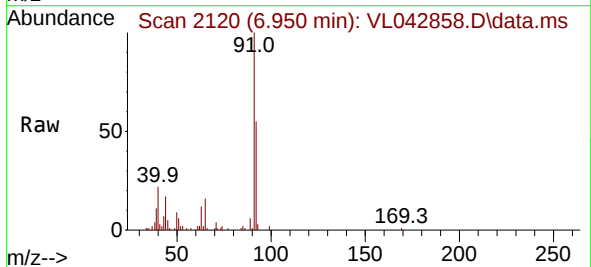
Instrument :  
 MSVOA\_L  
 ClientSampleId :

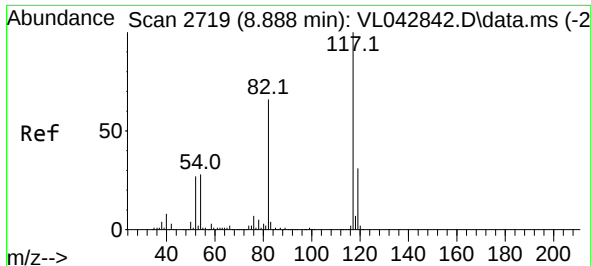
Tgt Ion: 57 Resp: 9292  
 Ion Ratio Lower Upper  
 57 100  
 41 53.4 24.8 37.2#  
 56 49.6 25.5 38.3#



#53  
 Toluene  
 Concen: 0.455 ppbv  
 RT: 6.950 min Scan# 2120  
 Delta R.T. 0.007 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

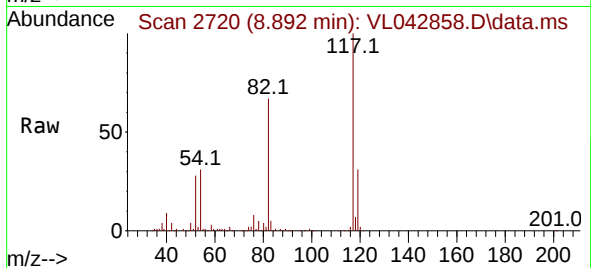
Tgt Ion: 91 Resp: 20514  
 Ion Ratio Lower Upper  
 91 100  
 92 62.2 47.8 71.6



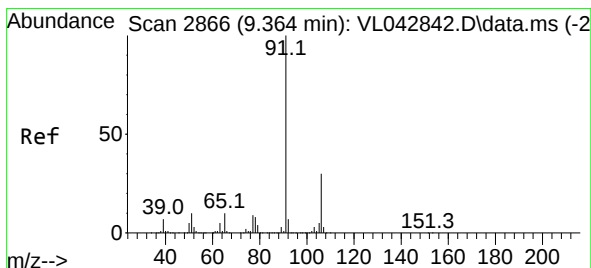
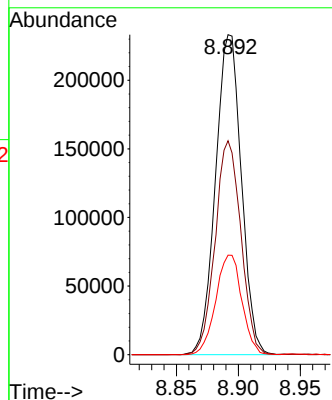
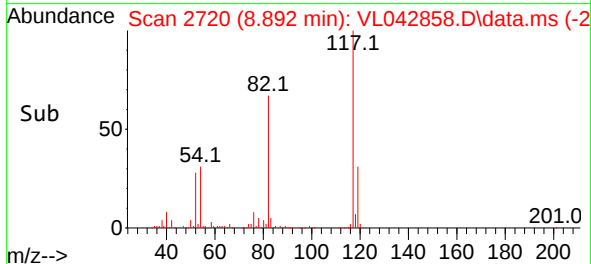


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.892 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Instrument :  
MSVOA\_L  
ClientSampleId :

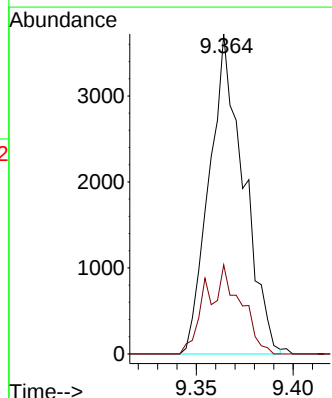
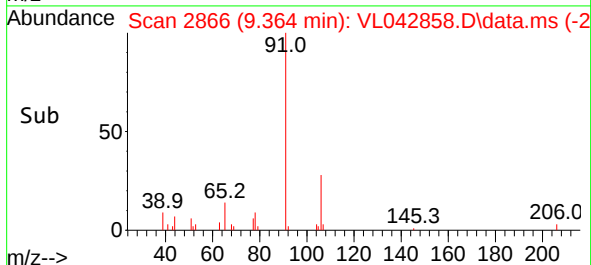
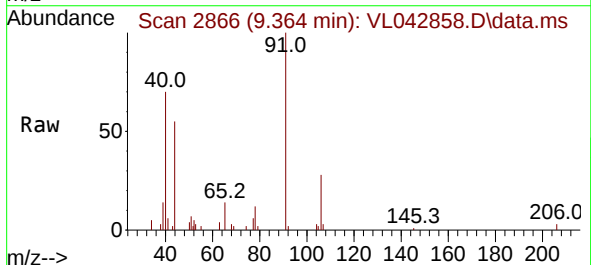


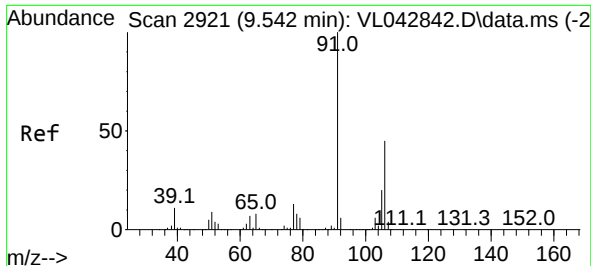
Tgt Ion:117 Resp: 339500  
Ion Ratio Lower Upper  
117 100  
82 66.6 54.6 81.8  
119 31.6 25.9 38.9



#58  
Ethyl Benzene  
Concen: 0.077 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.000 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 91 Resp: 4587  
Ion Ratio Lower Upper  
91 100  
106 27.9 23.9 35.9





#59

m/p-Xylene

Concen: 0.164 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA\_L

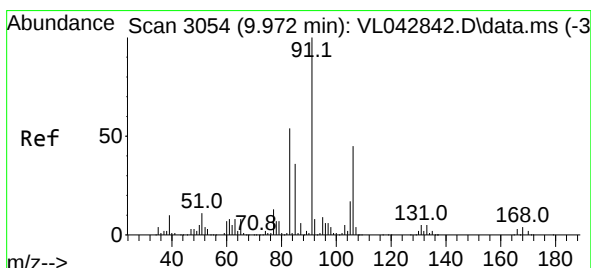
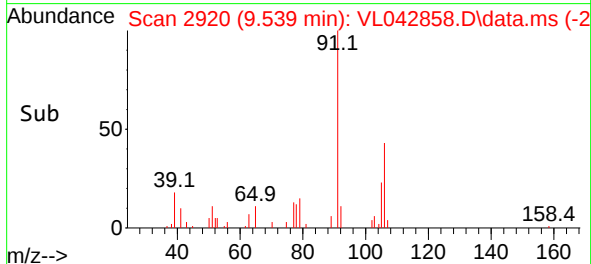
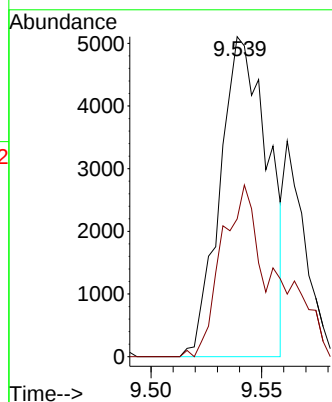
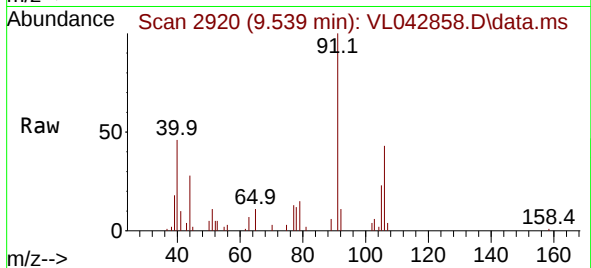
ClientSampleId :

Tgt Ion: 91 Resp: 7689

Ion Ratio Lower Upper

91 100

106 59.8 0.0 0.0#



#60

o-Xylene

Concen: 0.083 ppbv

RT: 9.973 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042858.D

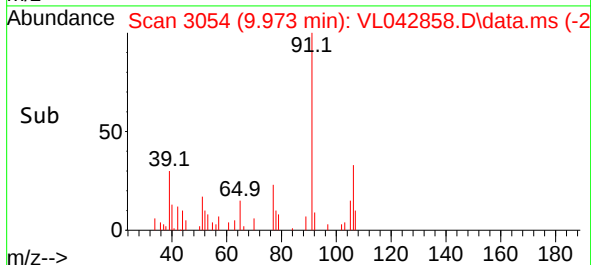
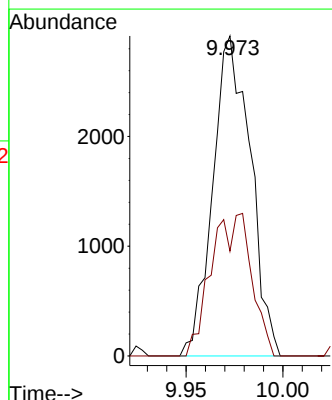
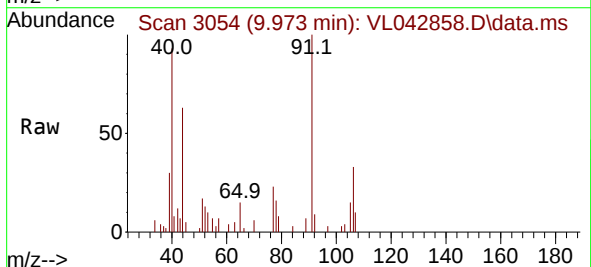
Acq: 13 Aug 2025 18:58

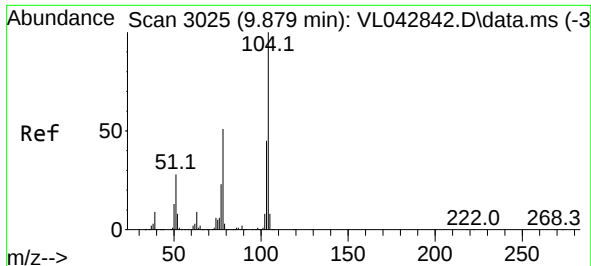
Tgt Ion: 91 Resp: 3941

Ion Ratio Lower Upper

91 100

106 48.0 21.8 65.4

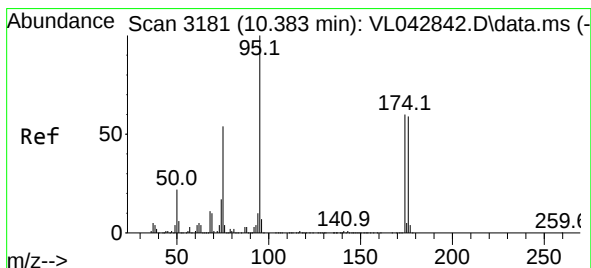
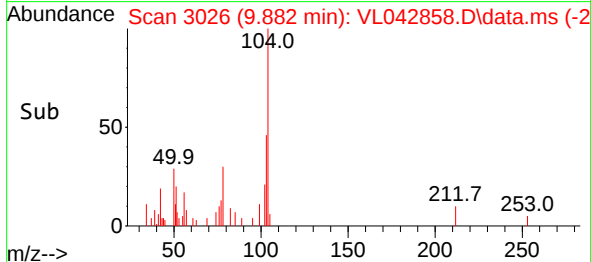
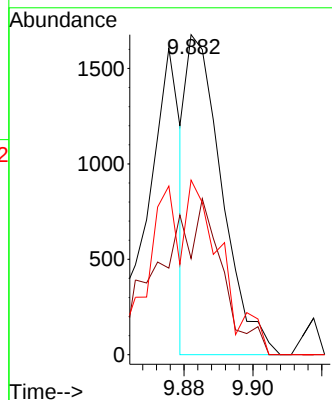
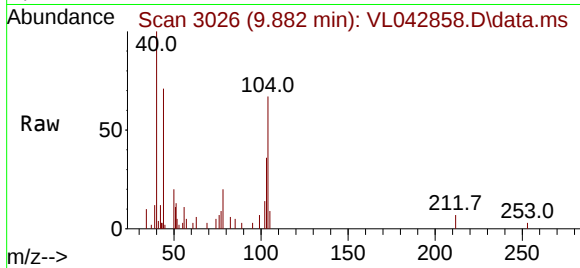




#61  
Styrene  
Concen: 0.054 ppbv  
RT: 9.882 min Scan# 3025  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

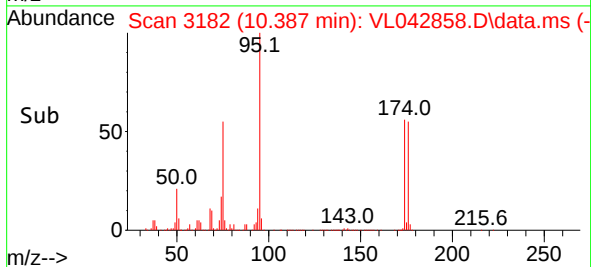
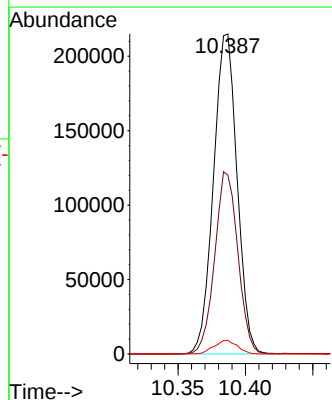
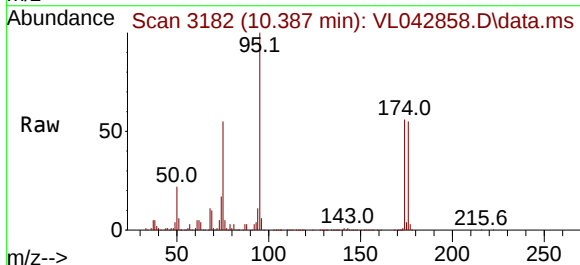
Instrument :  
MSVOA\_L  
ClientSampleId :

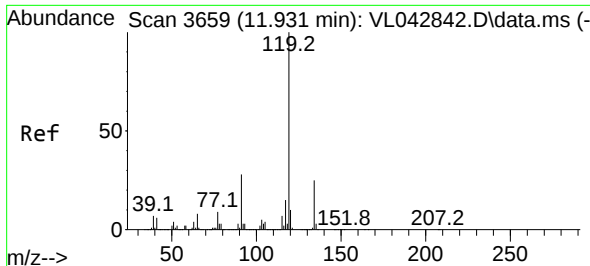
Tgt Ion:104 Resp: 1190  
Ion Ratio Lower Upper  
104 100  
78 86.0 40.6 61.0#  
103 102.4 37.7 56.5#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.286 ppbv  
RT: 10.387 min Scan# 3182  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

Tgt Ion: 95 Resp: 261906  
Ion Ratio Lower Upper  
95 100  
174 56.0 48.4 72.6  
175 4.2 3.8 5.8

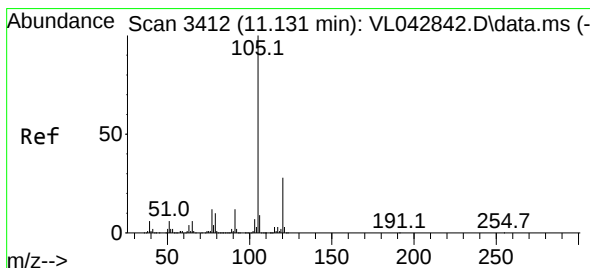
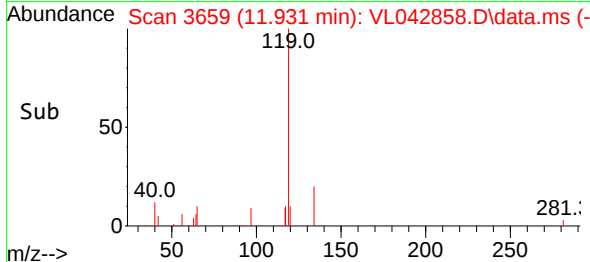
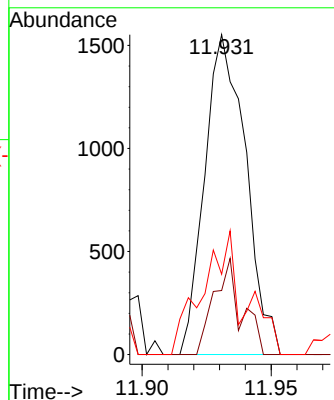
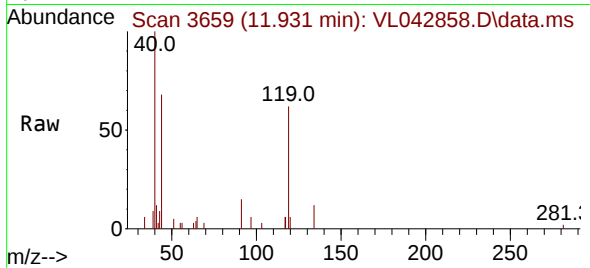




#69  
 p-Isopropyltoluene  
 Concen: 0.023 ppbv  
 RT: 11.931 min Scan# 3659  
 Delta R.T. 0.000 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

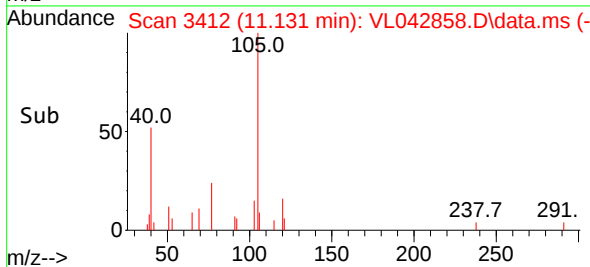
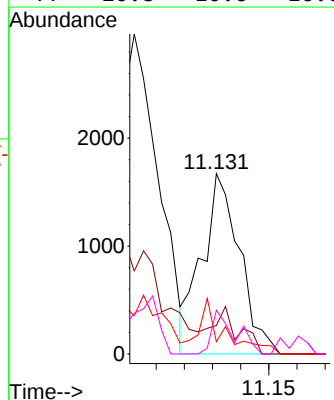
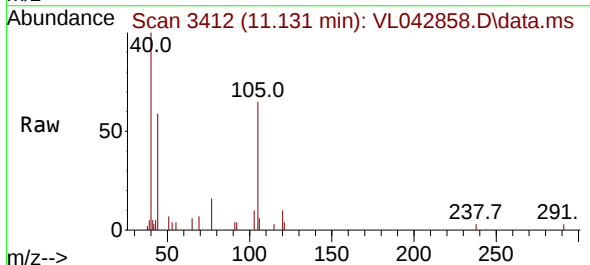
Instrument :  
 MSVOA\_L  
 ClientSampleId :

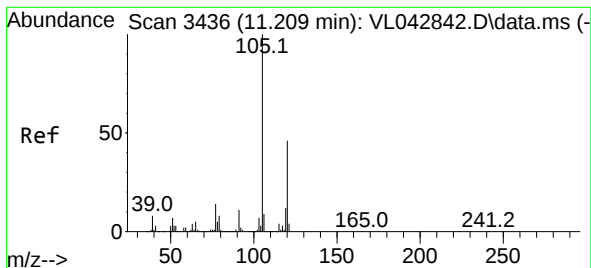
Tgt Ion:119 Resp: 1718  
 Ion Ratio Lower Upper  
 119 100  
 134 19.9 20.6 30.8#  
 91 42.1 22.6 34.0#



#72  
 4-Ethyltoluene  
 Concen: 0.027 ppbv  
 RT: 11.131 min Scan# 3412  
 Delta R.T. 0.000 min  
 Lab File: VL042858.D  
 Acq: 13 Aug 2025 18:58

Tgt Ion:105 Resp: 1557  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 23.4 35.2#  
 91 0.0 9.8 14.6#  
 77 20.8 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.022 ppbv

RT: 11.212 min Scan# 3436

Delta R.T. 0.004 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA\_L

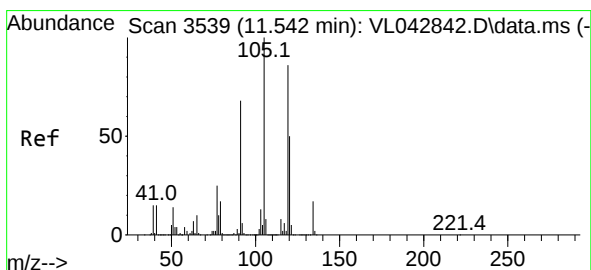
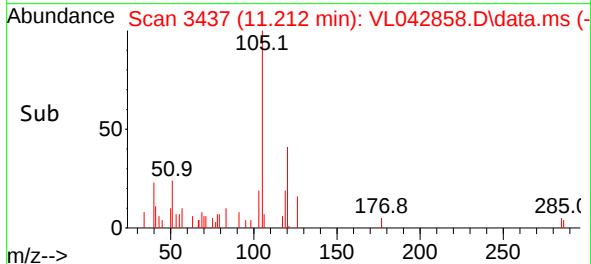
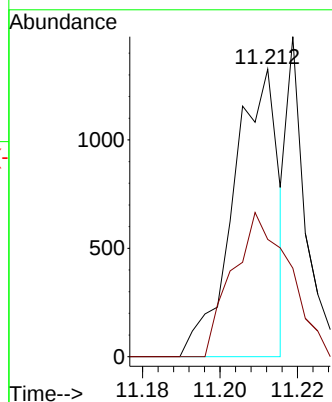
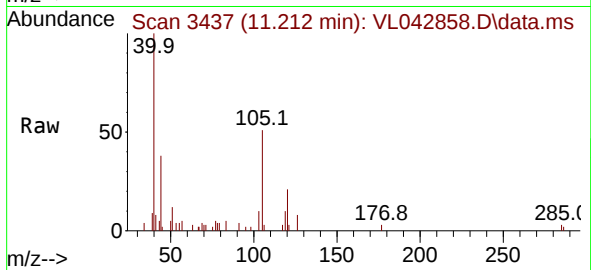
ClientSampleId :

Tgt Ion:105 Resp: 1070

Ion Ratio Lower Upper

105 100

120 40.8 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.096 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Tgt Ion:105 Resp: 5116

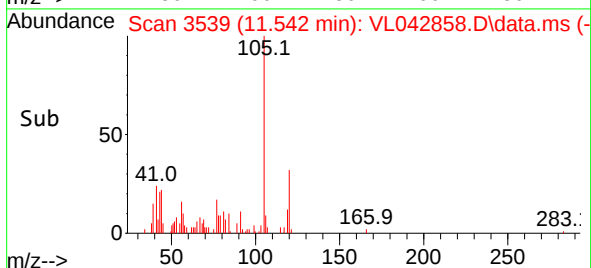
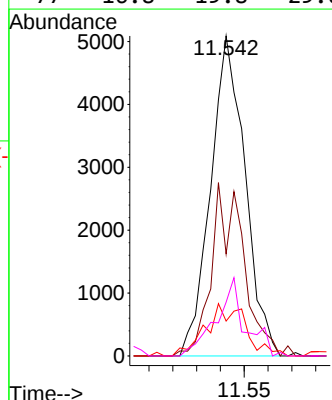
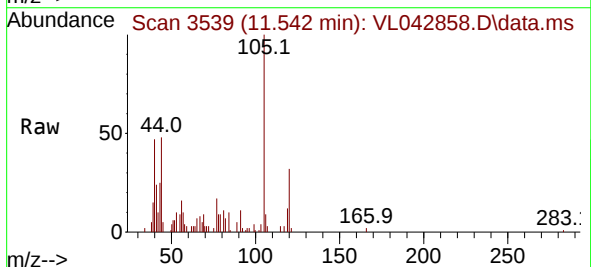
Ion Ratio Lower Upper

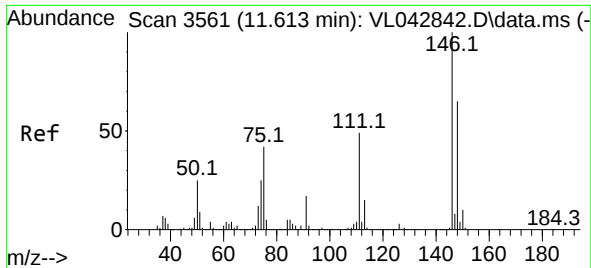
105 100

120 31.9 39.8 59.6#

91 9.3 54.2 81.4#

77 16.8 19.8 29.6#

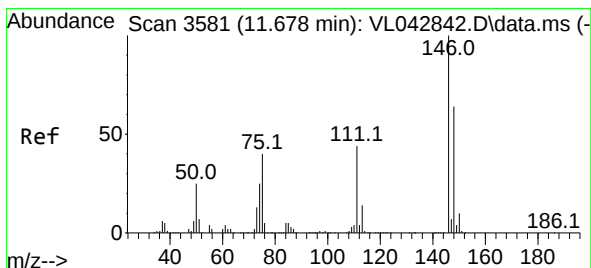
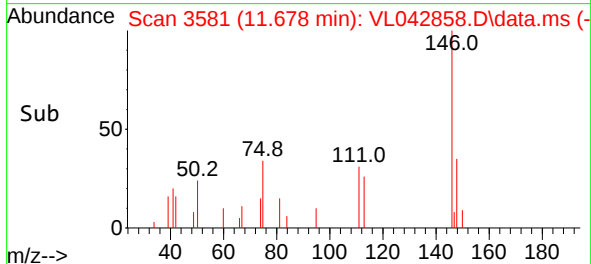
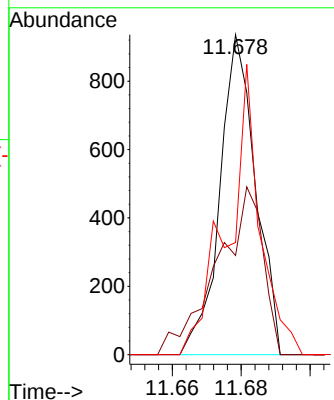
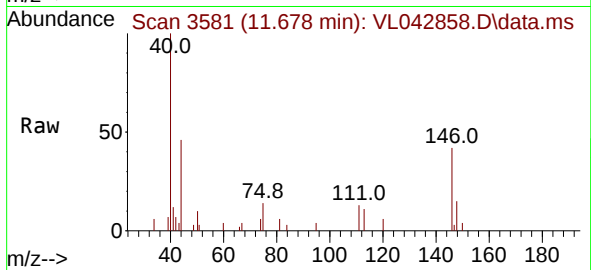




#75  
1,3-Dichlorobenzene  
Concen: 0.022 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.065 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

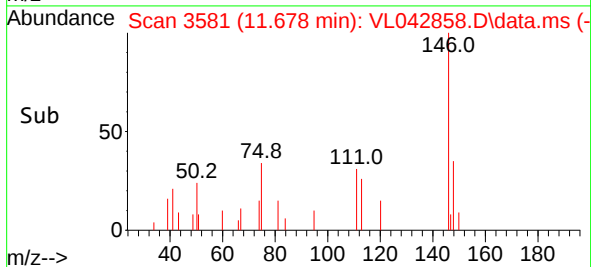
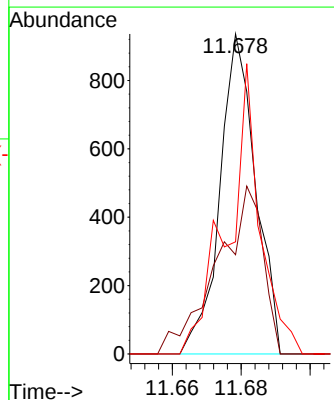
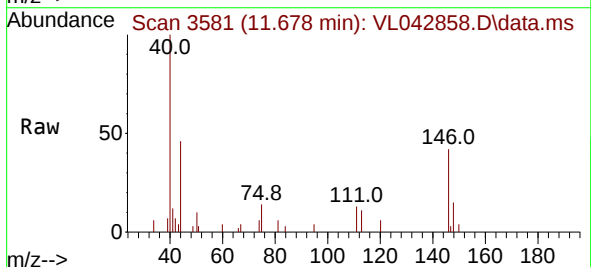
Instrument :  
MSVOA\_L  
ClientSampleId :

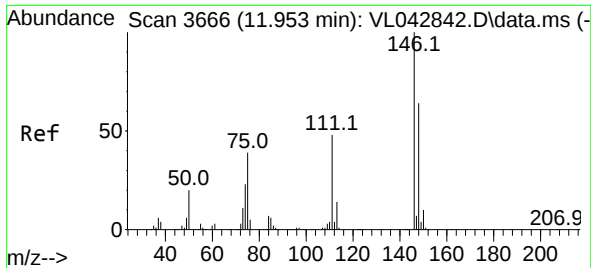
Tgt Ion:146 Resp: 675  
Ion Ratio Lower Upper  
146 100  
111 67.1 23.9 71.7  
148 81.6 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 0.022 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

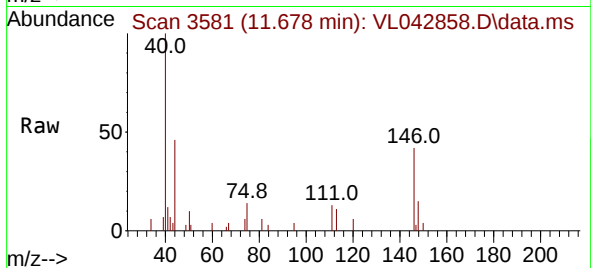
Tgt Ion:146 Resp: 675  
Ion Ratio Lower Upper  
146 100  
111 67.1 22.7 68.1  
148 81.6 31.8 95.3



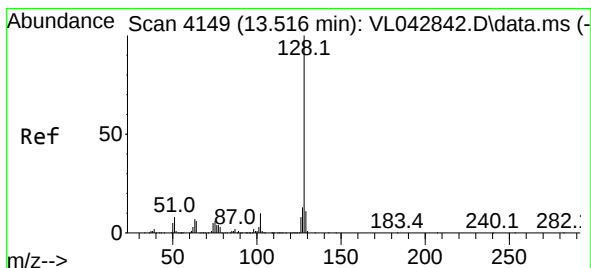
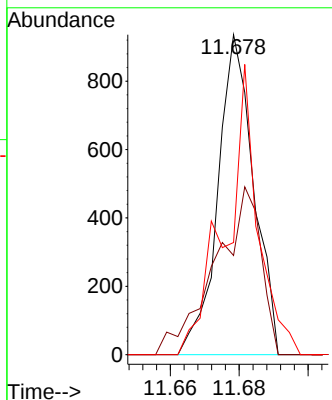
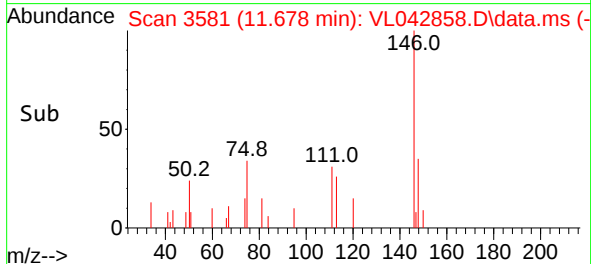


#77  
1,2-Dichlorobenzene  
Concen: 0.023 ppbv  
RT: 11.678 min Scan# 31  
Delta R.T. -0.275 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58

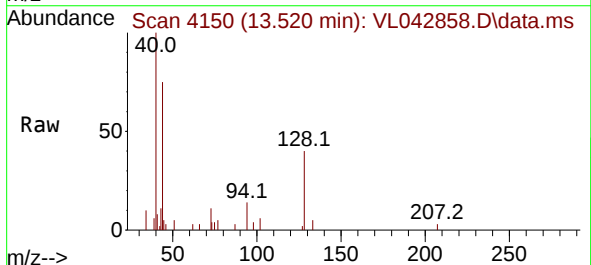
Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion:146 Resp: 675  
Ion Ratio Lower Upper  
146 100  
111 67.1 24.6 74.0  
148 81.6 32.0 96.0



#79  
Naphthalene  
Concen: 0.021 ppbv  
RT: 13.520 min Scan# 4150  
Delta R.T. 0.004 min  
Lab File: VL042858.D  
Acq: 13 Aug 2025 18:58



Tgt Ion:128 Resp: 1029  
Ion Ratio Lower Upper  
128 100  
127 6.1 10.6 16.0#  
129 0.0 8.9 13.3#

