

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072925\  
 Data File : VL042784.D  
 Acq On : 29 Jul 2025 15:35  
 Operator : SY/MD  
 Sample : Q2712-05  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

Quant Time: Jul 30 01:13:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Jul 24 05:24:41 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 149475   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 412836   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 369597   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 302994   | 10.352   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.500% |

| Target Compounds              |        |     |        |          | Qvalue |     |
|-------------------------------|--------|-----|--------|----------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 10053  | 0.509    | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.466  | 51  | 289100 | 11.230   | ppbv # | 64  |
| 4) Chloromethane              | 1.531  | 50  | 5685   | 0.711    | ppbv   | 91  |
| 5) Vinyl Chloride             | 1.577  | 62  | 291    | 0.037    | ppbv # | 78  |
| 6) Bromomethane               | 1.670  | 94  | 111    | 0.036    | ppbv # | 41  |
| 7) Chloroethane               | 1.466  | 64  | 17768  | 5.821    | ppbv # | 64  |
| 9) Propene                    | 1.560  | 41  | 306598 | 32.768   | ppbv   | 98  |
| 10) Heptane                   | 4.985  | 43  | 5288   | 0.210    | ppbv # | 27  |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 7217   | 0.354    | ppbv   | 89  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101 | 434    | 0.028    | ppbv # | 12  |
| 13) Ethanol                   | 1.725  | 45  | 904849 | 1326.987 | ppbv   | 92  |
| 14) Bromoethene               | 1.434  | 108 | 160    | 0.029    | ppbv   | 85  |
| 15) Acetone                   | 1.839  | 43  | 419725 | 20.335   | ppbv   | 99  |
| 16) 1,3-Butadiene             | 1.622  | 39  | 15796  | 1.794    | ppbv # | 19  |
| 17) tert-Butyl alcohol        | 2.059  | 59  | 9115   | 0.490    | ppbv # | 72  |
| 19) Isopropyl Alcohol         | 1.890  | 45  | 67692  | 6.172    | ppbv # | 1   |
| 20) Methylene Chloride        | 2.065  | 84  | 2523   | 0.388    | ppbv   | 85  |
| 21) Allyl Chloride            | 2.052  | 41  | 1614   | 0.127    | ppbv # | 20  |
| 23) Vinyl Acetate             | 2.457  | 43  | 6408   | 0.256    | ppbv # | 85  |
| 25) Ethyl Acetate             | 2.842  | 43  | 274388 | 6.006    | ppbv # | 90  |
| 26) Hexane                    | 2.829  | 57  | 6746   | 0.337    | ppbv # | 1   |
| 27) Carbon Disulfide          | 2.153  | 76  | 902    | 0.053    | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.564  | 73  | 327    | 0.035    | ppbv # | 1   |
| 29) Chloroform                | 2.852  | 83  | 106698 | 3.445    | ppbv   | 97  |
| 30) Cyclohexane               | 3.862  | 84  | 392    | 0.023    | ppbv # | 1   |
| 31) cis-1,2-Dichloroethene    | 2.842  | 61  | 33724  | 1.638    | ppbv # | 23  |
| 34) 2-Butanone                | 2.564  | 43  | 32223  | 1.102    | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.771  | 117 | 6342   | 0.207    | ppbv   | 98  |
| 36) Benzene                   | 3.664  | 78  | 10145  | 0.259    | ppbv   | 94  |
| 39) 1,2-Dichloropropane       | 3.962  | 63  | 105881 | 7.331    | ppbv # | 22  |
| 41) Tetrahydrofuran           | 3.065  | 42  | 6611   | 0.444    | ppbv # | 56  |
| 44) 2,2,4-Trimethylpentane    | 4.651  | 57  | 9313   | 0.146    | ppbv # | 70  |
| 50) 4-Methyl-2-Pentanone      | 5.771  | 43  | 51635  | 1.371    | ppbv   | 99  |
| 51) 2-Hexanone                | 7.451  | 43  | 2080   | 0.073    | ppbv # | 30  |
| 52) Tetrachloroethene         | 8.241  | 164 | 628    | 0.039    | ppbv # | 44  |
| 53) Toluene                   | 6.943  | 91  | 59133  | 1.407    | ppbv   | 100 |
| 58) Ethyl Benzene             | 9.364  | 91  | 8223   | 0.141    | ppbv # | 82  |
| 59) m/p-Xylene                | 9.561  | 91  | 4686   | 0.100    | ppbv # | 30  |
| 60) o-Xylene                  | 9.972  | 91  | 15404  | 0.330    | ppbv   | 94  |
| 61) Styrene                   | 9.882  | 104 | 16256  | 0.829    | ppbv   | 93  |
| 62) Isopropylbenzene          | 10.548 | 105 | 5080   | 0.074    | ppbv   | 94  |
| 64) n-propylbenzene           | 10.998 | 120 | 5296   | 0.295    | ppbv   | 96  |
| 65) tert-Butylbenzene         | 11.542 | 119 | 13070  | 0.214    | ppbv # | 66  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072925\  
 Data File : VL042784.D  
 Acq On : 29 Jul 2025 15:35  
 Operator : SY/MD  
 Sample : Q2712-05  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

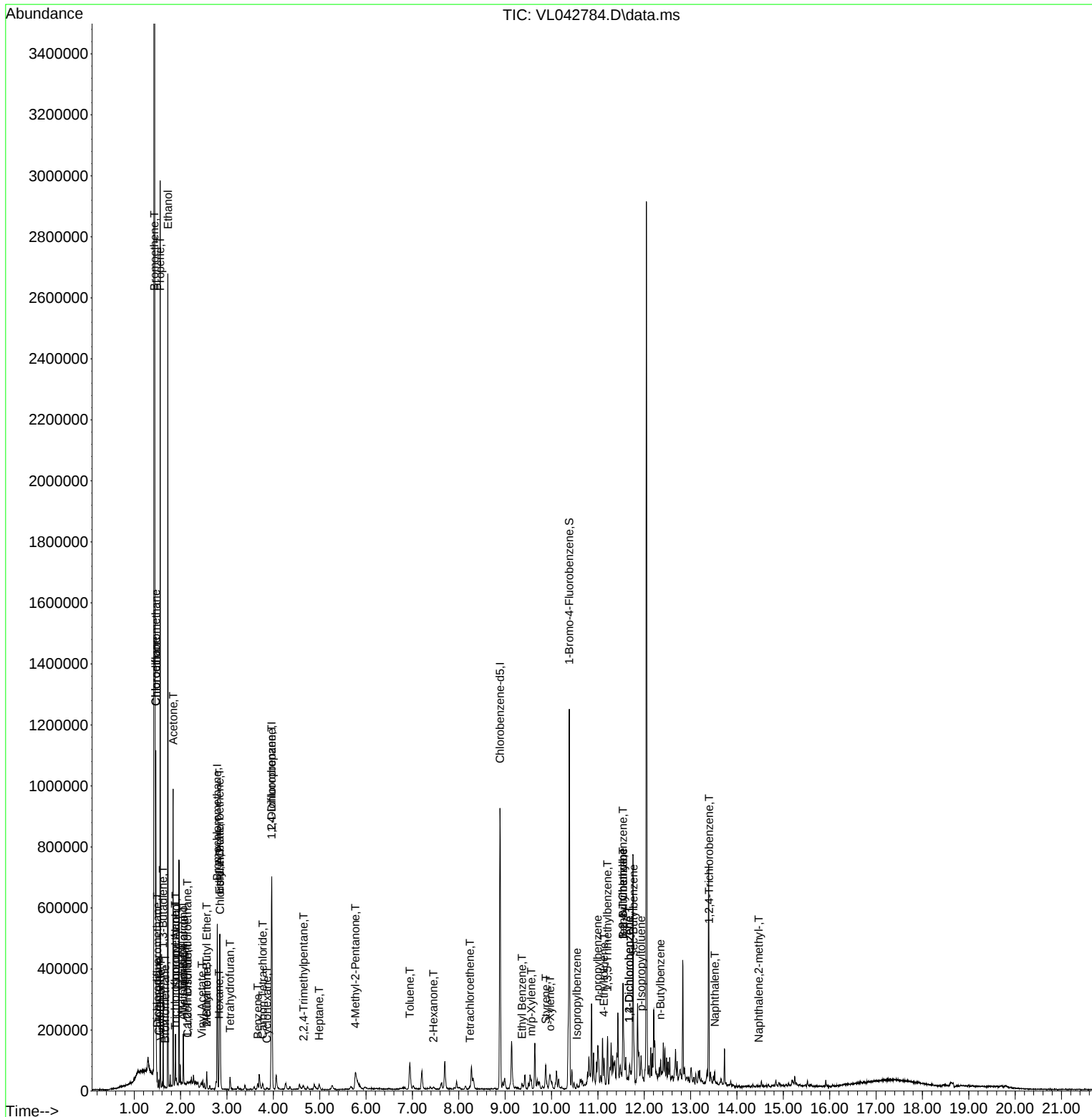
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

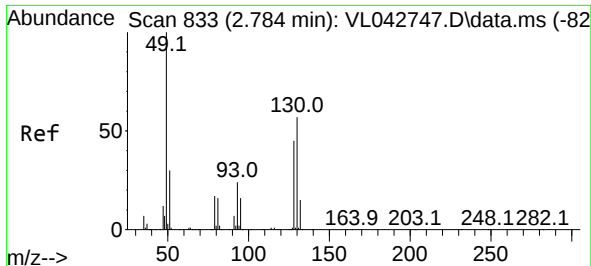
Quant Time: Jul 30 01:13:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Jul 24 05:24:41 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |    |
|----------------------------|--------|------|----------|-------|-------|----------|----|
| 66) Benzyl Chloride        | 11.542 | 91   | 15273    | 3.046 | ppbv  | #        | 67 |
| 67) sec-Butylbenzene       | 11.769 | 105  | 3335     | 0.038 | ppbv  | #        | 57 |
| 69) p-Isopropyltoluene     | 11.931 | 119  | 27703    | 0.391 | ppbv  | #        | 94 |
| 70) n-Butylbenzene         | 12.348 | 91   | 5314     | 0.078 | ppbv  | #        | 45 |
| 72) 4-Ethyltoluene         | 11.128 | 105  | 25180    | 0.452 | ppbv  | #        | 55 |
| 73) 1,3,5-Trimethylbenzene | 11.209 | 105  | 28346    | 0.618 | ppbv  | #        | 94 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105  | 99678    | 1.994 | ppbv  | #        | 62 |
| 76) 1,4-Dichlorobenzene    | 11.678 | 146  | 7100     | 0.207 | ppbv  |          | 89 |
| 77) 1,2-Dichlorobenzene    | 11.678 | 146  | 7100     | 0.206 | ppbv  |          | 89 |
| 79) Naphthalene            | 13.520 | 128  | 15482    | 0.708 | ppbv  | #        | 95 |
| 80) Naphthalene,2-methyl-  | 14.471 | 142  | 477      | 1.144 | ppbv  | #        | 30 |
| 81) 1,2,4-Trichlorobenzene | 13.397 | 180  | 269      | 0.443 | ppbv  | #        | 12 |

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

Quant Time: Jul 30 01:13:46 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Jul 24 05:24:41 2025  
Response via : Initial Calibration

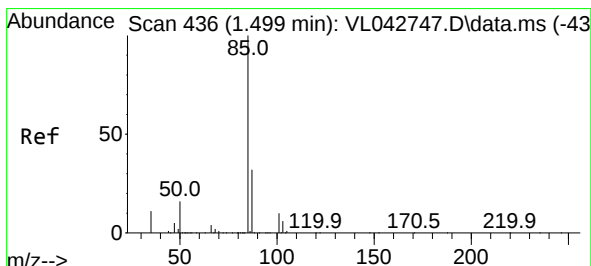
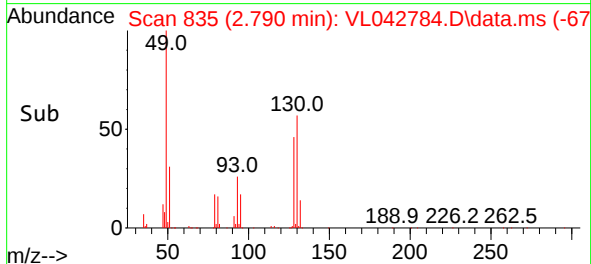
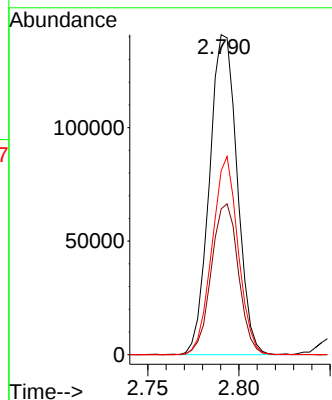
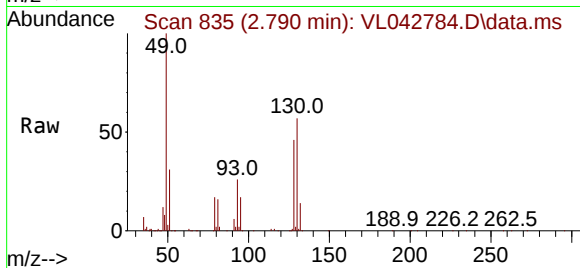




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.790 min Scan# 835  
 Delta R.T. 0.006 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

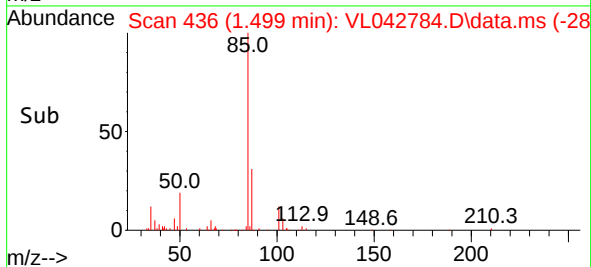
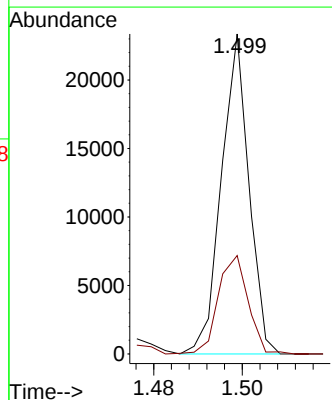
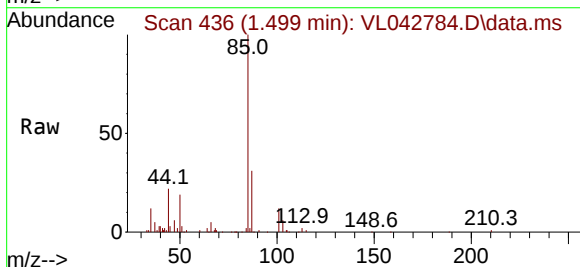
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

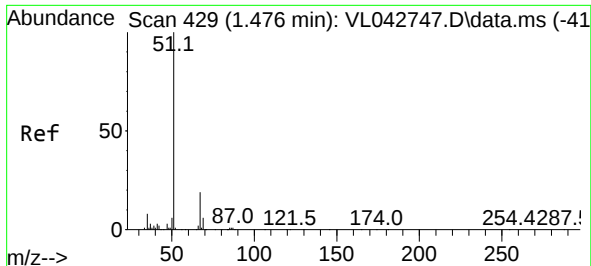
Tgt Ion: 49 Resp: 149475  
 Ion Ratio Lower Upper  
 49 100  
 128 46.1 23.6 71.0  
 130 58.0 30.3 90.8



#2  
 Dichlorodifluoromethane  
 Concen: 0.509 ppbv  
 RT: 1.499 min Scan# 436  
 Delta R.T. -0.000 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

Tgt Ion: 85 Resp: 10053  
 Ion Ratio Lower Upper  
 85 100  
 87 30.5 25.4 38.2

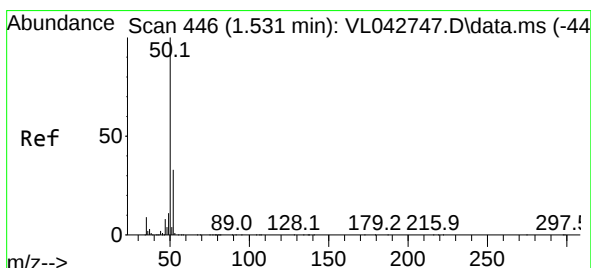
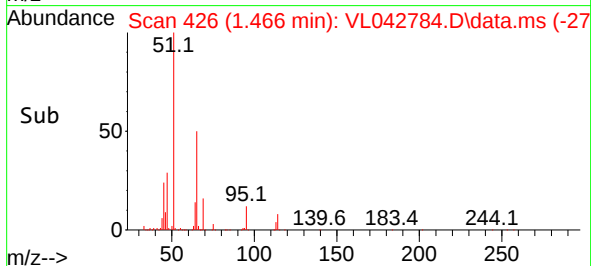
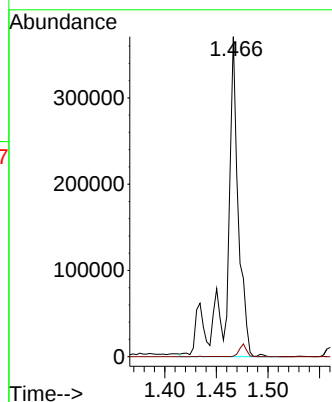
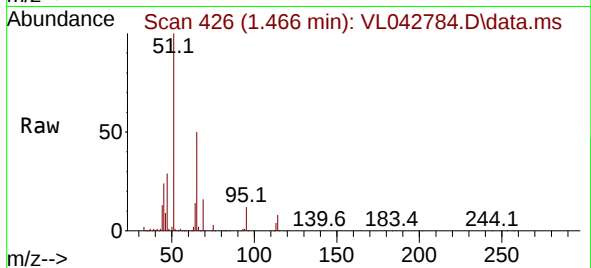




#3  
Chlorodifluoromethane  
Concen: 11.230 ppbv  
RT: 1.466 min Scan# 41  
Delta R.T. -0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

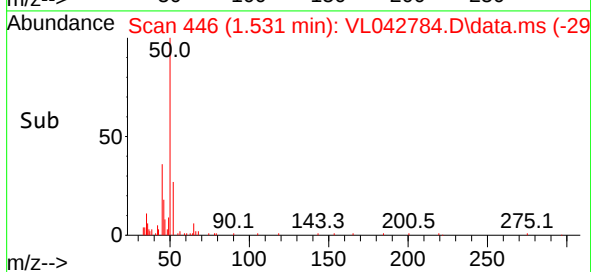
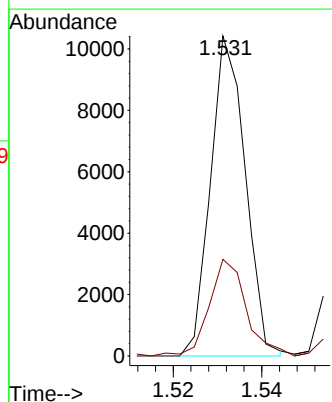
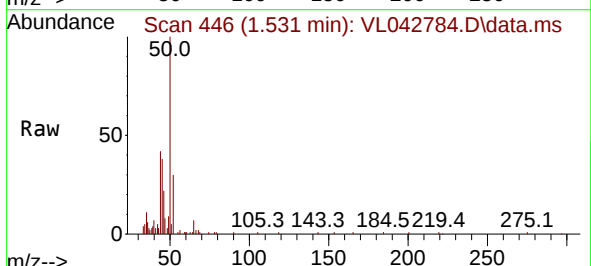
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

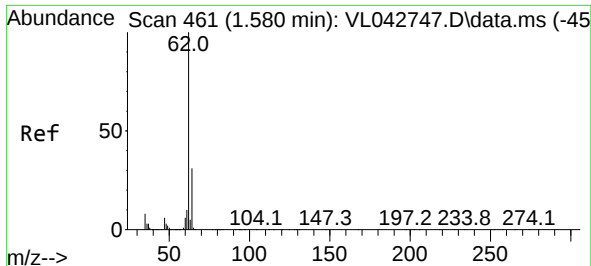
Tgt Ion: 51 Resp: 289100  
Ion Ratio Lower Upper  
51 100  
67 2.5 15.0 22.6#



#4  
Chloromethane  
Concen: 0.711 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 50 Resp: 5685  
Ion Ratio Lower Upper  
50 100  
52 28.1 26.6 40.0

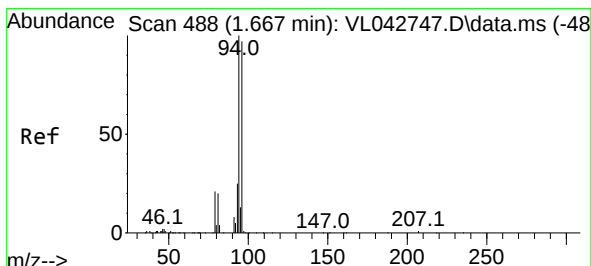
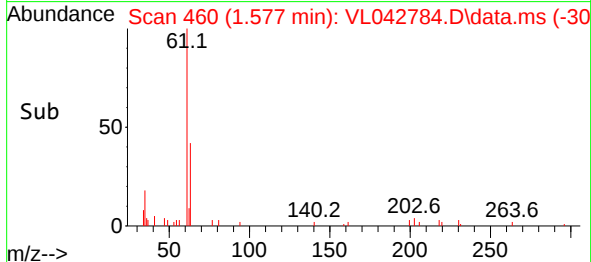
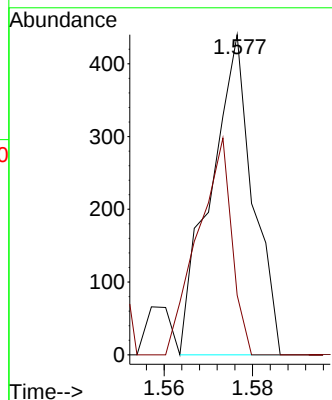
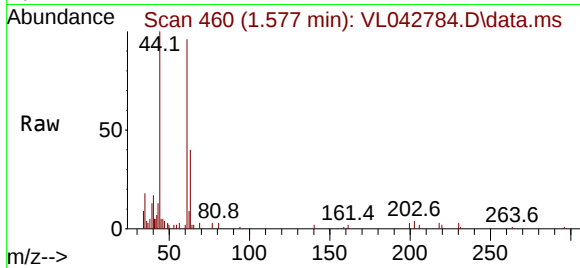




#5  
 Vinyl Chloride  
 Concen: 0.037 ppbv  
 RT: 1.577 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

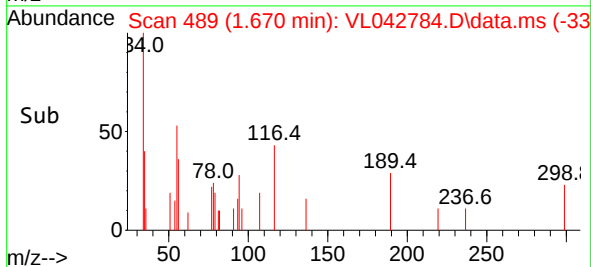
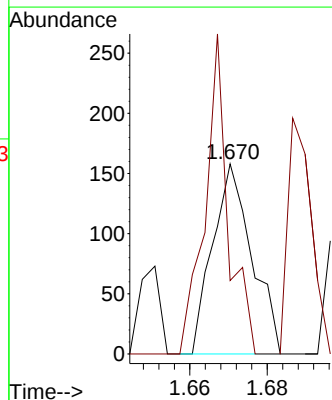
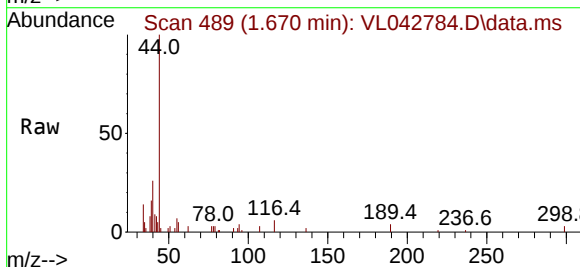
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

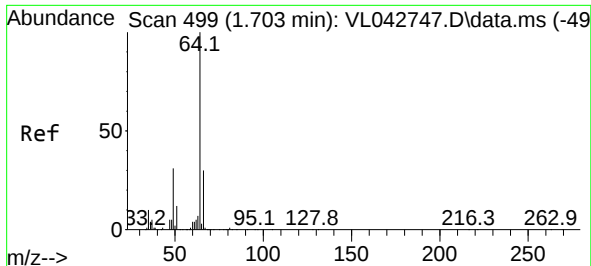
Tgt Ion: 62 Resp: 291  
 Ion Ratio Lower Upper  
 62 100  
 64 18.6 24.5 36.7#



#6  
 Bromomethane  
 Concen: 0.036 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.003 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

Tgt Ion: 94 Resp: 111  
 Ion Ratio Lower Upper  
 94 100  
 96 38.6 77.6 116.4#

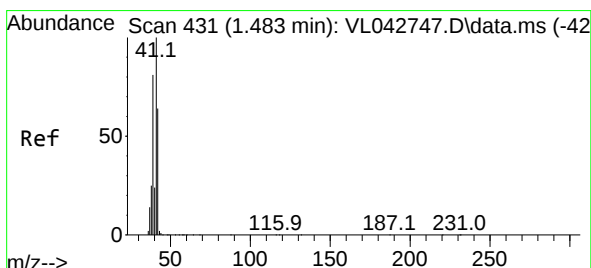
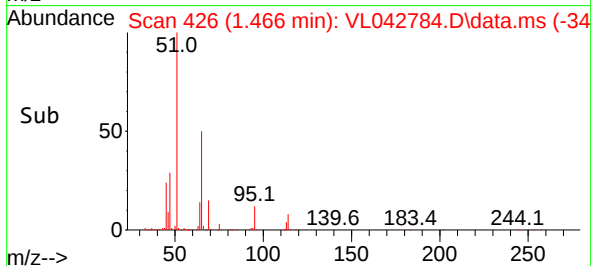
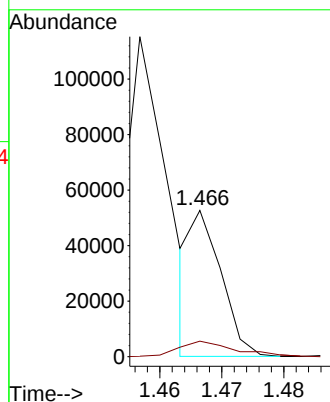
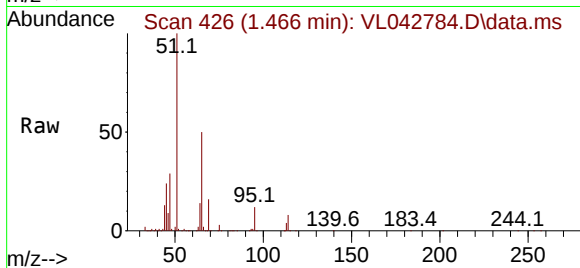




#7  
Chloroethane  
Concen: 5.821 ppbv  
RT: 1.466 min Scan# 41  
Delta R.T. -0.236 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

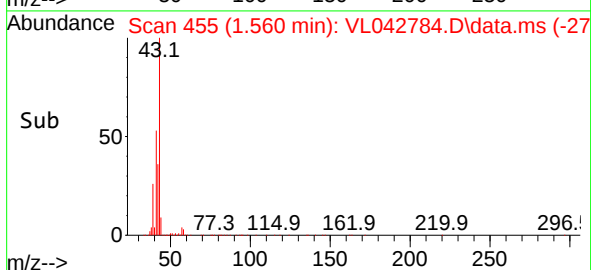
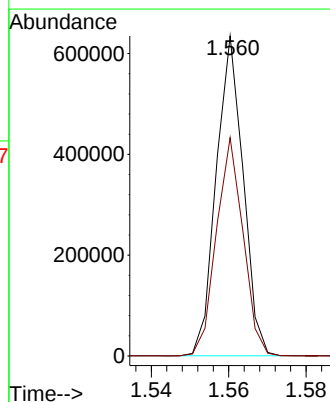
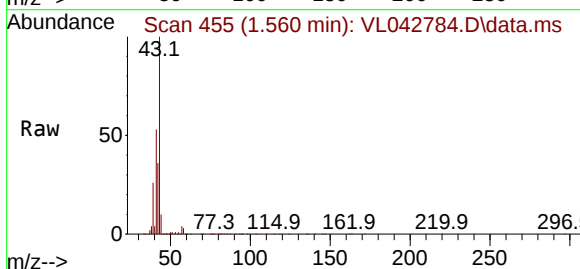
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

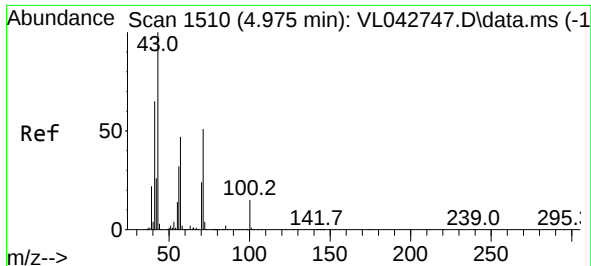
Tgt Ion: 64 Resp: 17768  
Ion Ratio Lower Upper  
64 100  
66 10.7 24.1 36.1#



#9  
Propene  
Concen: 32.768 ppbv  
RT: 1.560 min Scan# 455  
Delta R.T. 0.078 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 41 Resp: 306598  
Ion Ratio Lower Upper  
41 100  
42 68.0 53.2 79.8

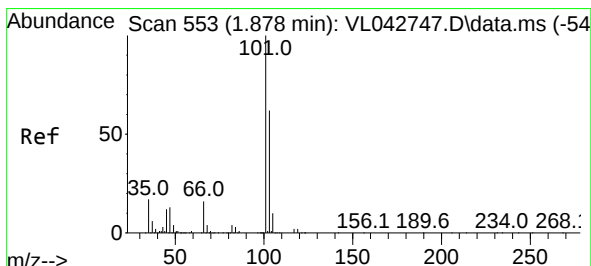
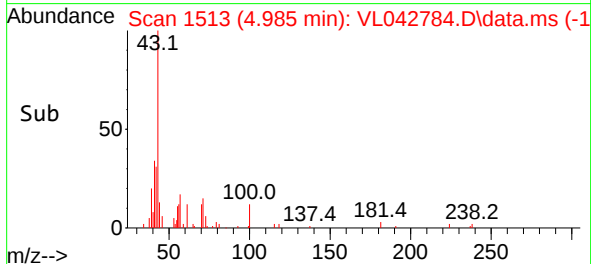
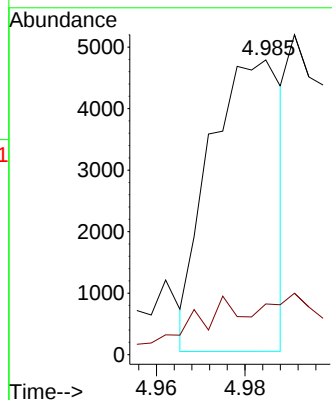
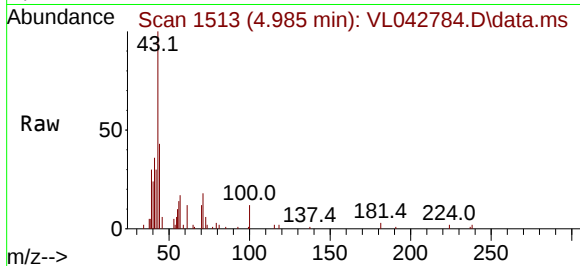




#10  
Heptane  
Concen: 0.210 ppbv  
RT: 4.985 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

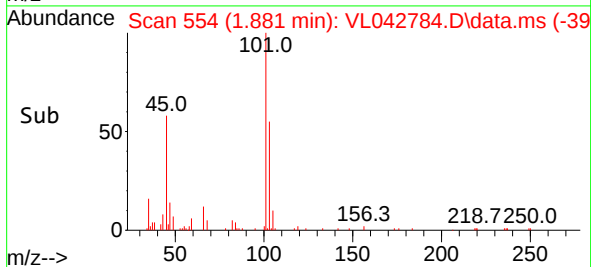
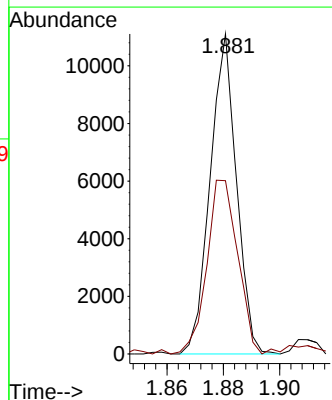
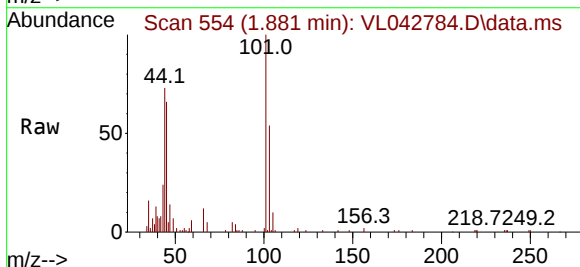
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

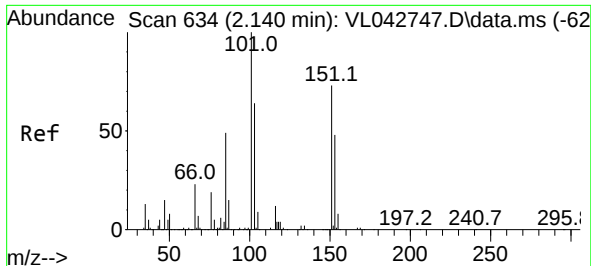
Tgt Ion: 43 Resp: 5288  
Ion Ratio Lower Upper  
43 100  
57 0.0 39.9 59.9#



#11  
Trichlorofluoromethane  
Concen: 0.354 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.003 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 101 Resp: 7217  
Ion Ratio Lower Upper  
101 100  
103 53.5 49.6 74.4

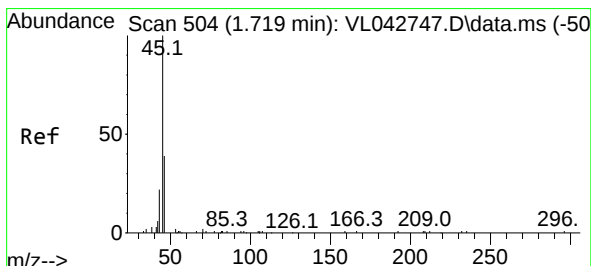
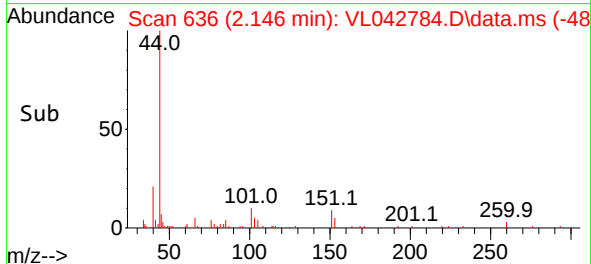
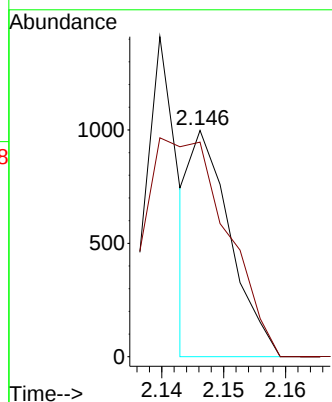
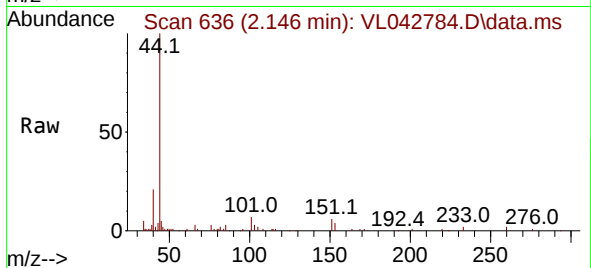




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.028 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

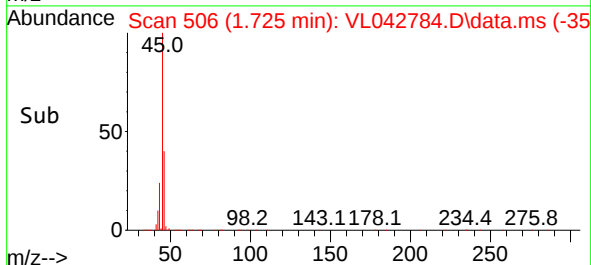
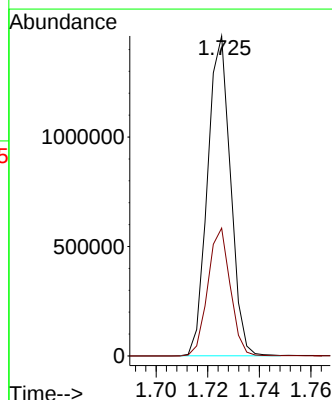
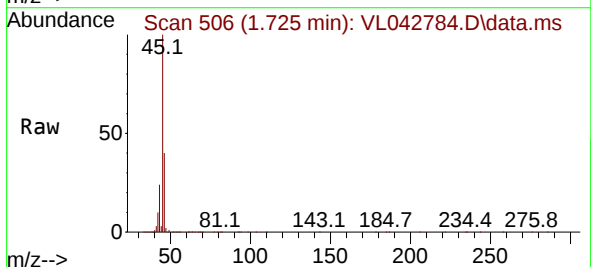
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

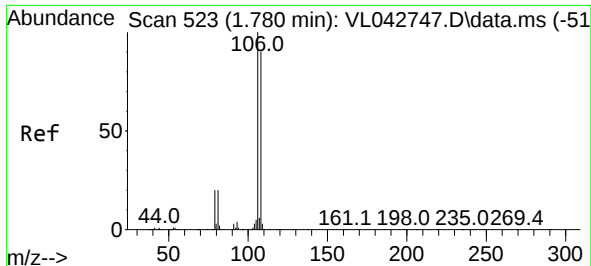
Tgt Ion:101 Resp: 434  
Ion Ratio Lower Upper  
101 100  
151 0.0 60.5 90.7#



#13  
Ethanol  
Concen: 1326.987 ppbv  
RT: 1.725 min Scan# 506  
Delta R.T. 0.006 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 45 Resp: 904849  
Ion Ratio Lower Upper  
45 100  
46 39.3 17.8 71.4





#14

Bromoethene

Concen: 0.029 ppbv

RT: 1.434 min Scan# 41

Delta R.T. -0.346 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

IA3

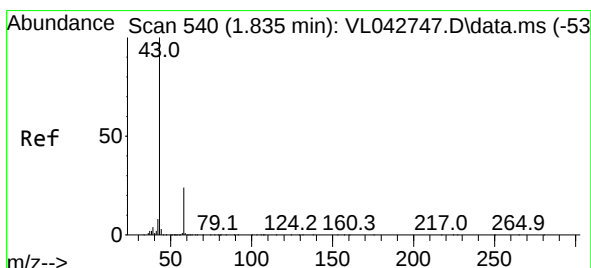
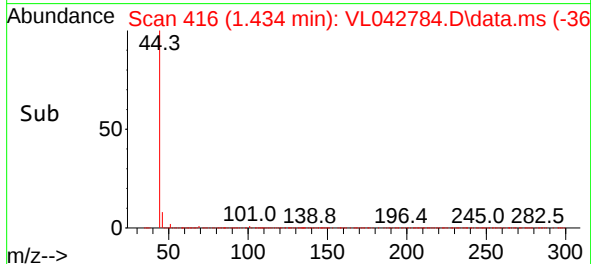
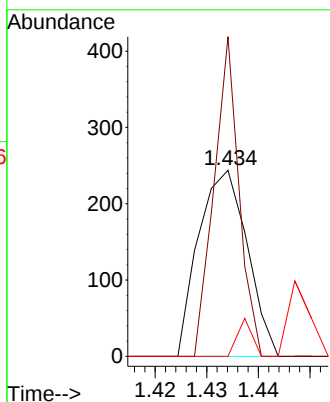
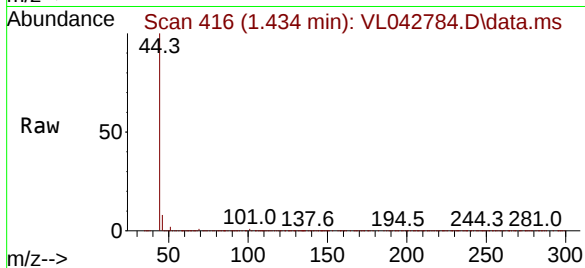
Tgt Ion:108 Resp: 160

Ion Ratio Lower Upper

108 100

106 88.1 84.7 127.1

79 24.4 17.4 26.2



#15

Acetone

Concen: 20.335 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.003 min

Lab File: VL042784.D

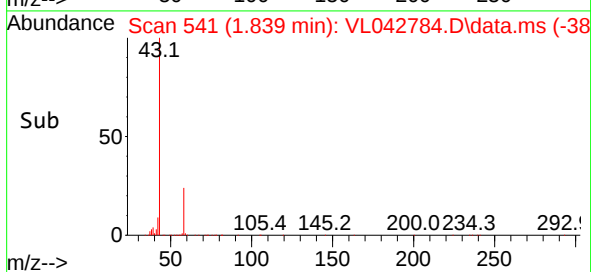
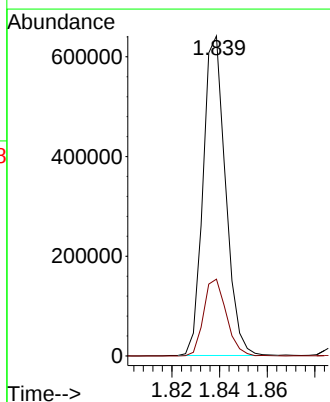
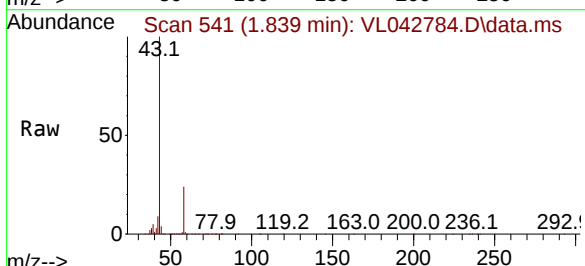
Acq: 29 Jul 2025 15:35

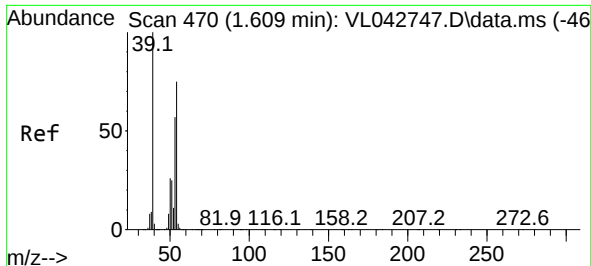
Tgt Ion: 43 Resp: 419725

Ion Ratio Lower Upper

43 100

58 24.5 19.8 29.8

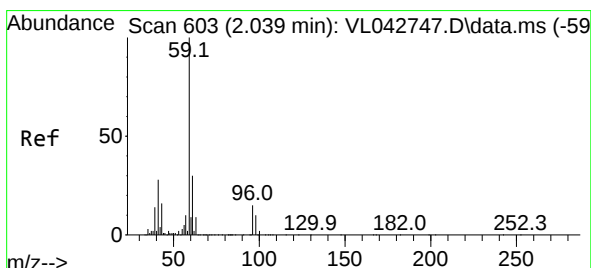
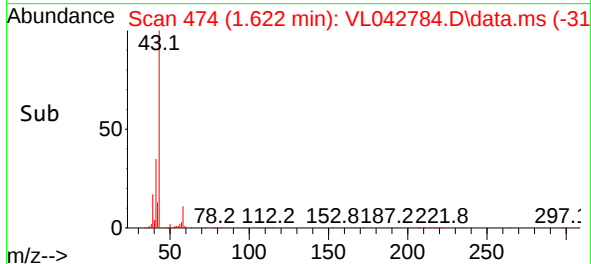
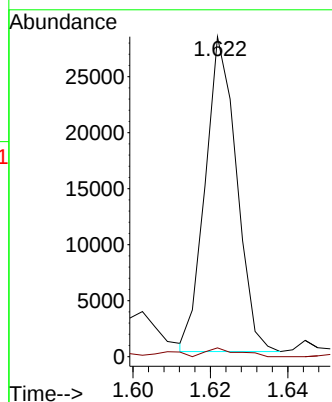
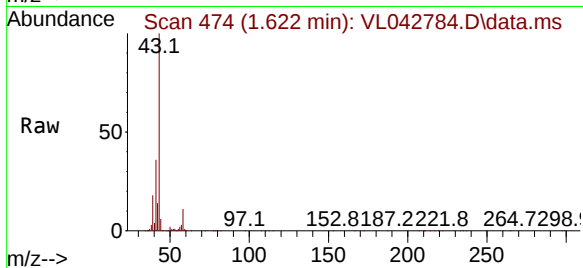




#16  
1,3-Butadiene  
Concen: 1.794 ppbv  
RT: 1.622 min Scan# 41  
Delta R.T. 0.013 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

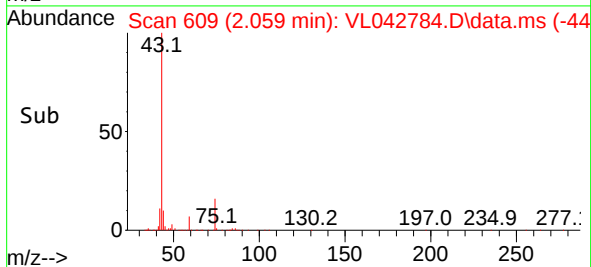
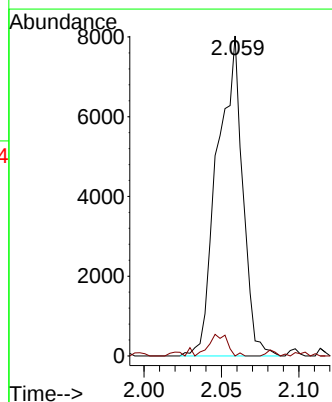
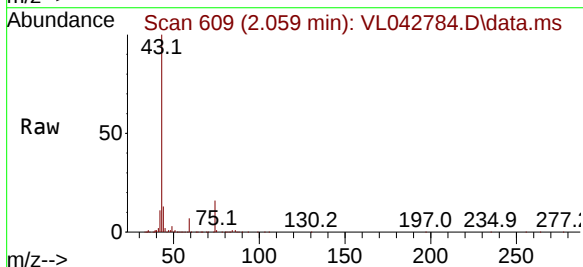
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

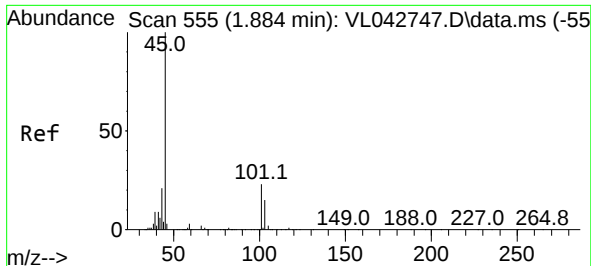
Tgt Ion: 39 Resp: 15796  
Ion Ratio Lower Upper  
39 100  
54 2.9 54.5 81.7#



#17  
tert-Butyl alcohol  
Concen: 0.490 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.019 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 59 Resp: 9115  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

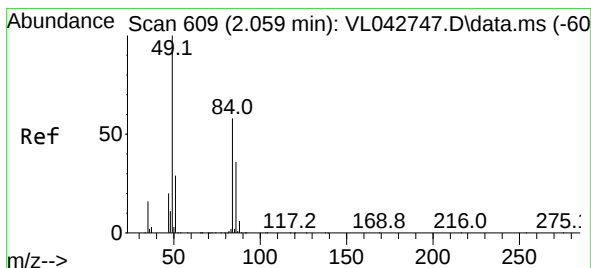
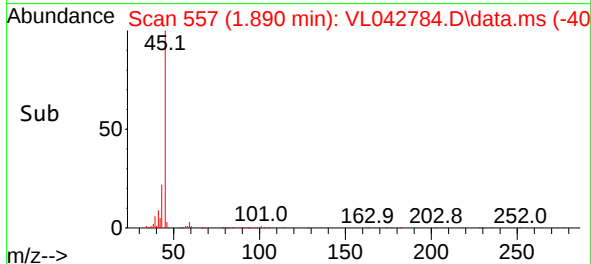
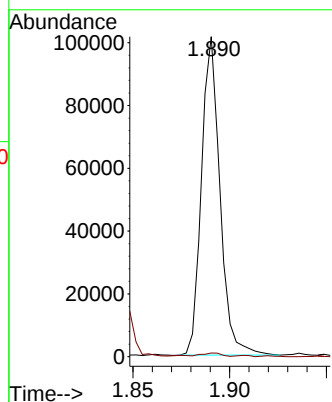
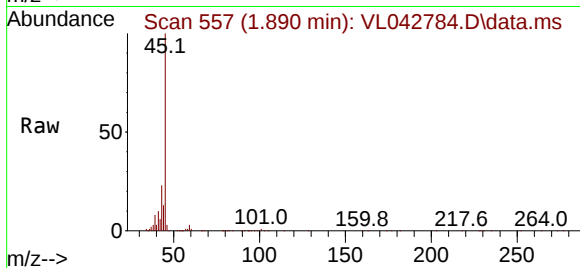




#19  
Isopropyl Alcohol  
Concen: 6.172 ppbv  
RT: 1.890 min Scan# 511  
Delta R.T. 0.006 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

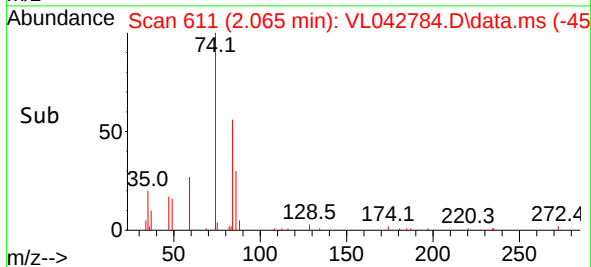
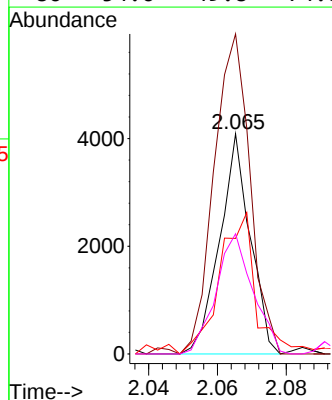
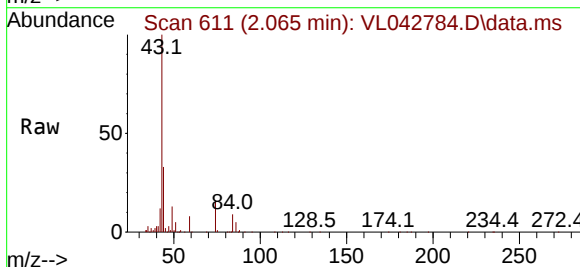
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

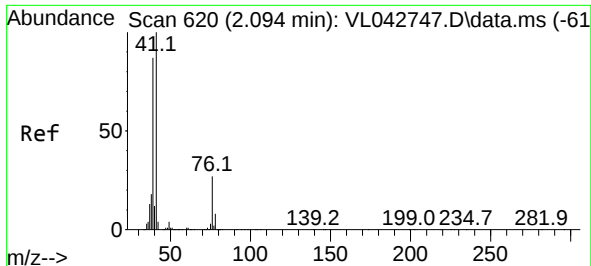
Tgt Ion: 45 Resp: 67692  
Ion Ratio Lower Upper  
45 100  
58 151.7 30.0 45.0#



#20  
Methylene Chloride  
Concen: 0.388 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 84 Resp: 2523  
Ion Ratio Lower Upper  
84 100  
49 145.3 138.6 208.0  
51 52.5 40.6 61.0  
86 54.6 49.8 74.8

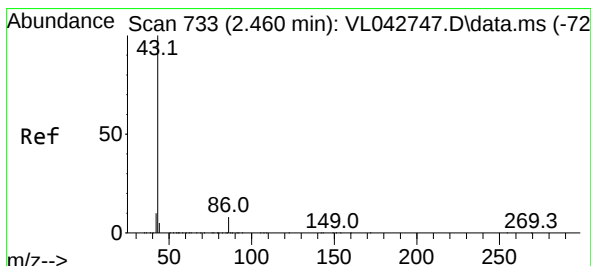
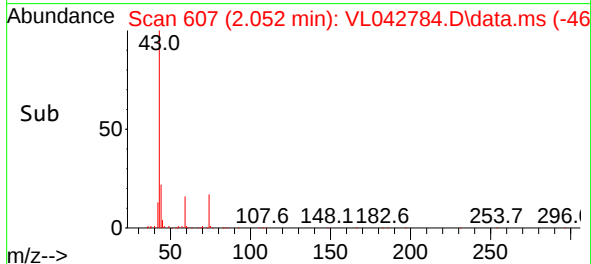
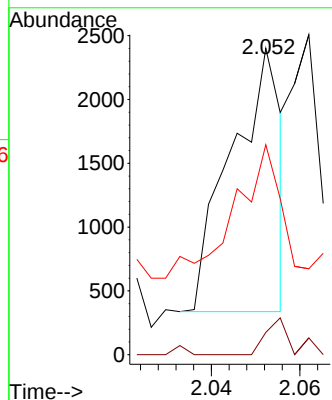
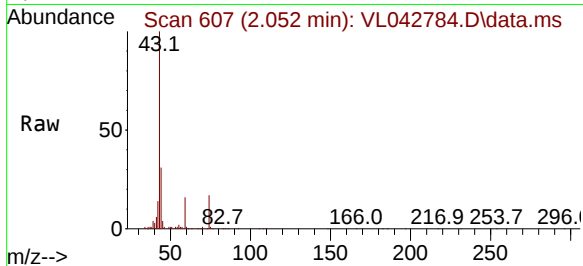




#21  
 Allyl Chloride  
 Concen: 0.127 ppbv  
 RT: 2.052 min Scan# 607  
 Delta R.T. -0.042 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

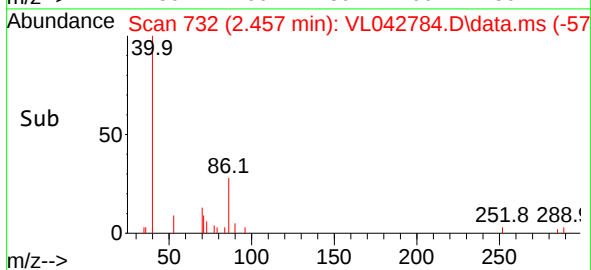
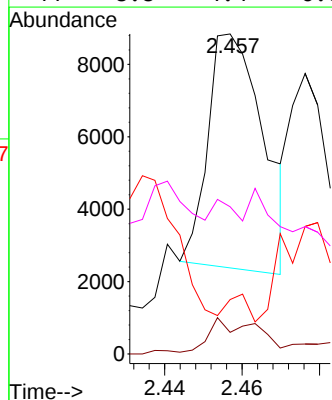
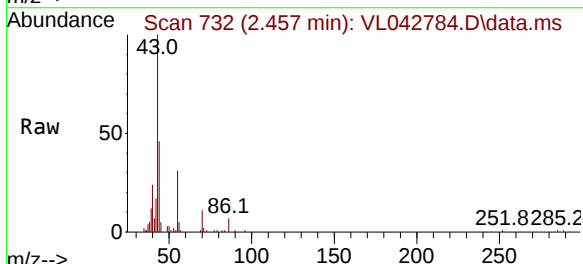
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

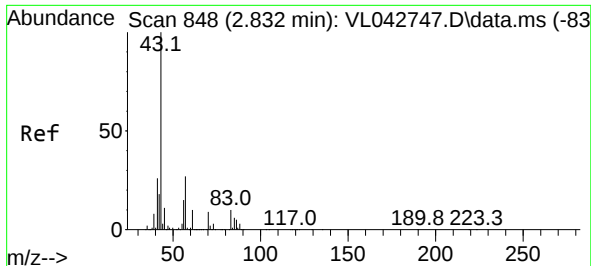
Tgt Ion: 41 Resp: 1614  
 Ion Ratio Lower Upper  
 41 100  
 76 7.2 21.1 31.7#  
 39 0.0 68.3 102.5#



#23  
 Vinyl Acetate  
 Concen: 0.256 ppbv  
 RT: 2.457 min Scan# 732  
 Delta R.T. -0.003 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

Tgt Ion: 43 Resp: 6408  
 Ion Ratio Lower Upper  
 43 100  
 86 8.7 6.1 9.1  
 42 0.0 7.8 11.8#  
 44 8.8 4.4 6.6#

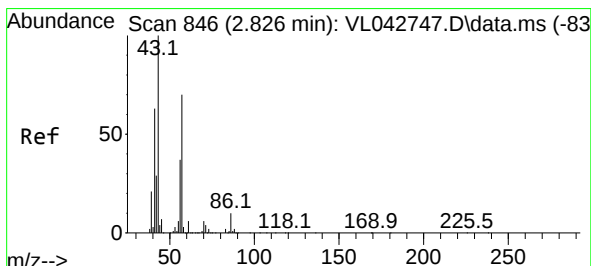
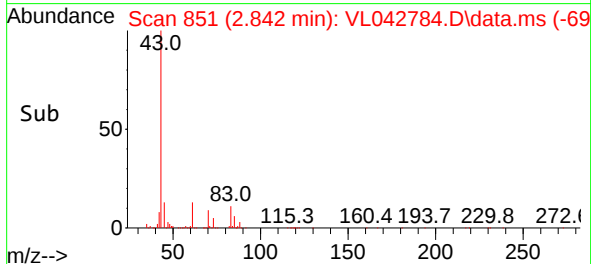
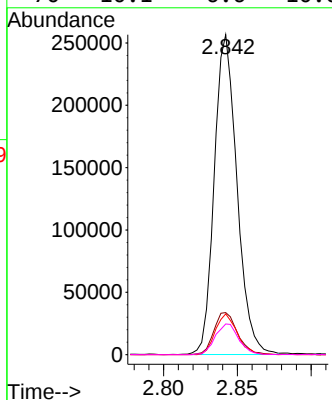
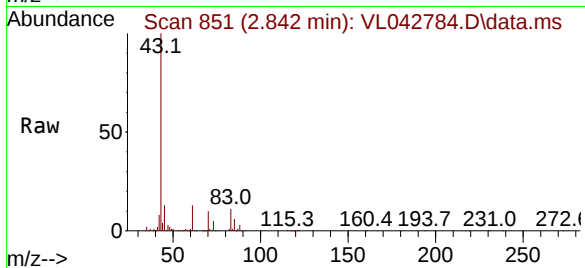




#25  
Ethyl Acetate  
Concen: 6.006 ppbv  
RT: 2.842 min Scan# 849  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

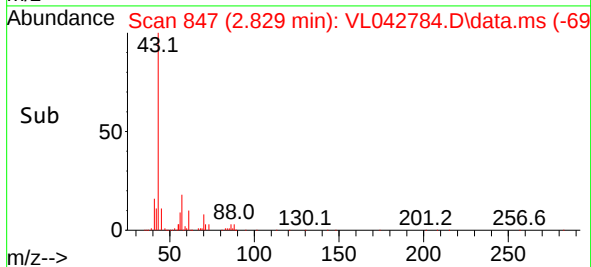
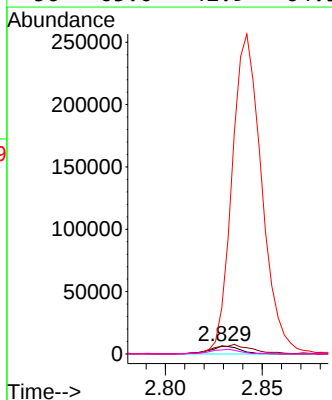
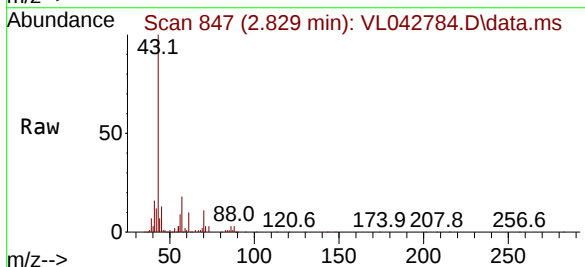
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

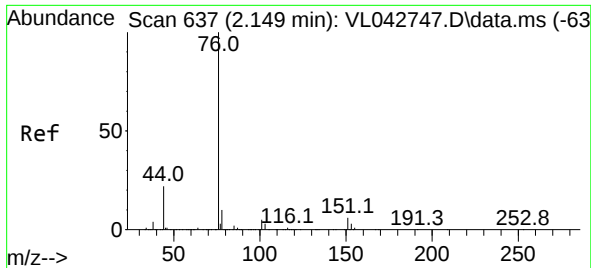
Tgt Ion: 43 Resp: 274388  
Ion Ratio Lower Upper  
43 100  
45 14.1 7.8 11.6#  
61 12.3 6.7 10.1#  
70 10.1 6.6 10.0#



#26  
Hexane  
Concen: 0.337 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 57 Resp: 6746  
Ion Ratio Lower Upper  
57 100  
41 157.9 75.4 113.2#  
43 4093.8 185.0 277.6#  
56 63.0 42.9 64.3





#27

Carbon Disulfide

Concen: 0.053 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_1

ClientSampleId :

IA3

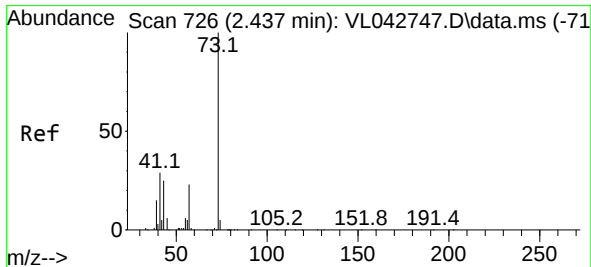
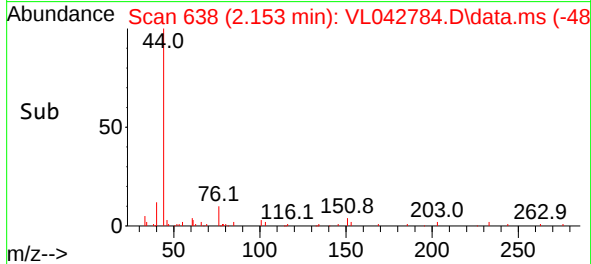
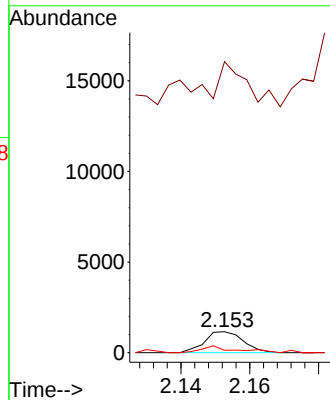
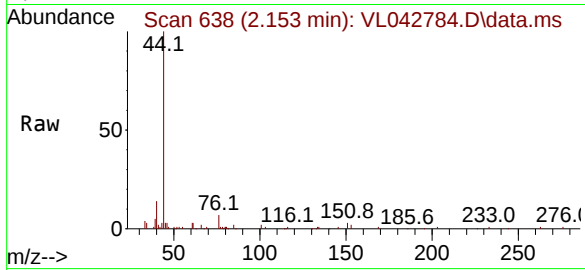
Tgt Ion: 76 Resp: 902

Ion Ratio Lower Upper

76 100

44 479.7 19.3 28.9#

78 44.2 9.9 14.9#



#28

Methyl tert-Butyl Ether

Concen: 0.035 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.126 min

Lab File: VL042784.D

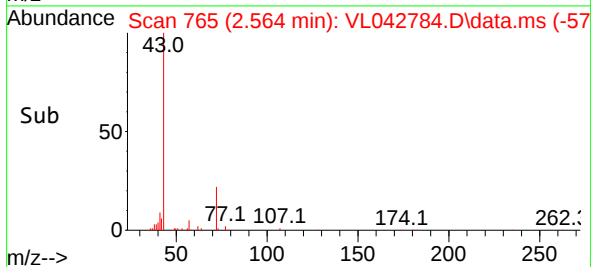
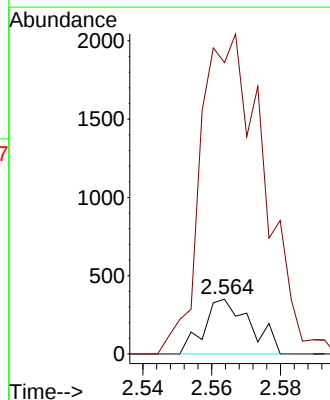
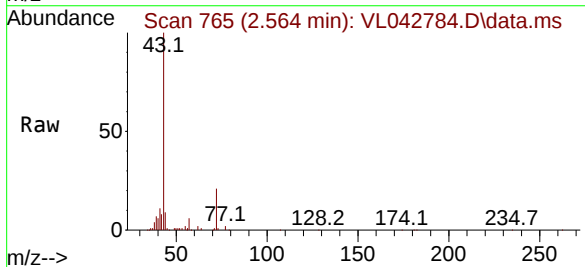
Acq: 29 Jul 2025 15:35

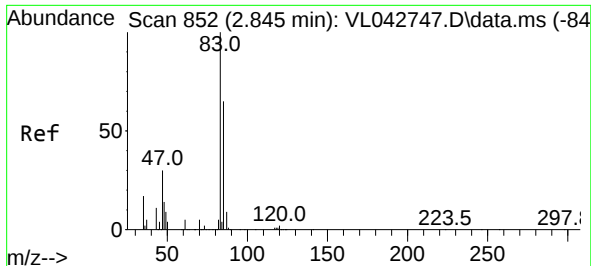
Tgt Ion: 73 Resp: 327

Ion Ratio Lower Upper

73 100

57 792.0 19.8 29.8#





#29

Chloroform

Concen: 3.445 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

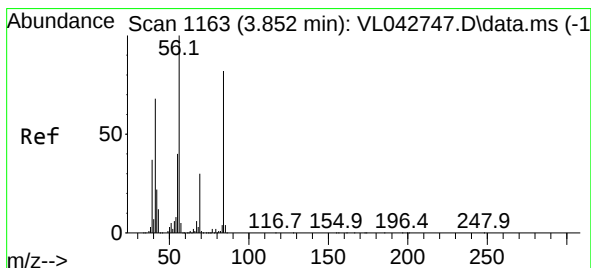
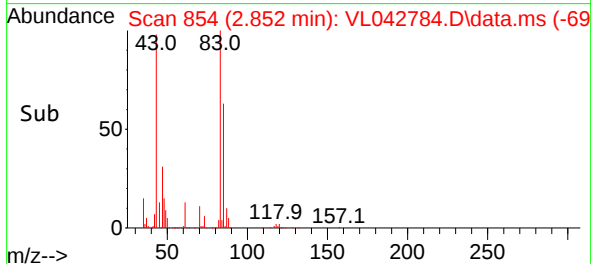
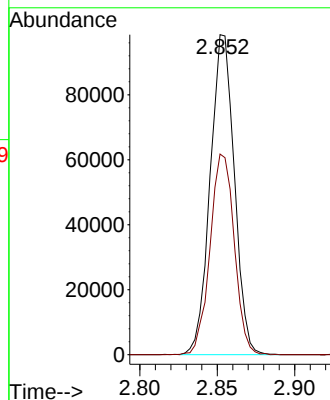
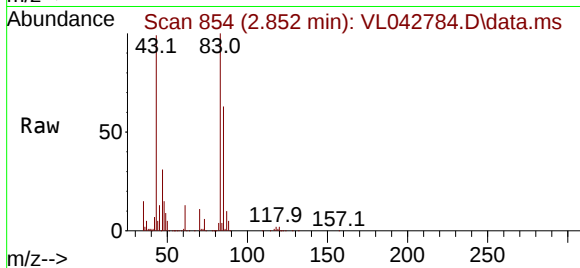
IA3

Tgt Ion: 83 Resp: 106698

Ion Ratio Lower Upper

83 100

85 62.7 52.2 78.2



#30

Cyclohexane

Concen: 0.023 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

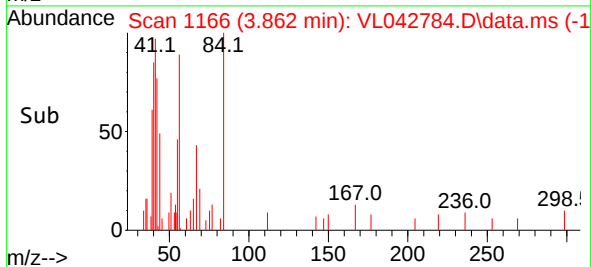
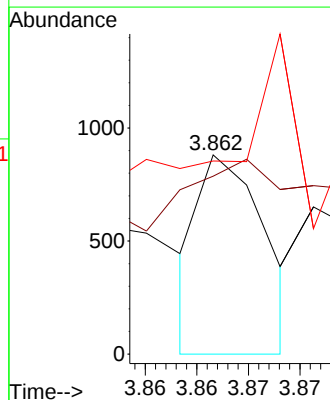
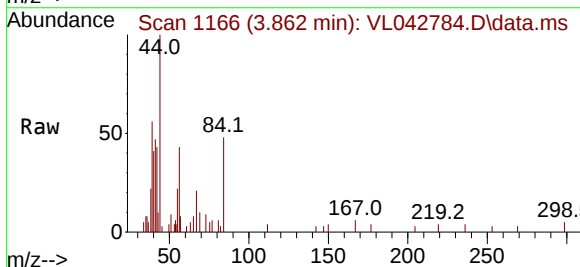
Tgt Ion: 84 Resp: 392

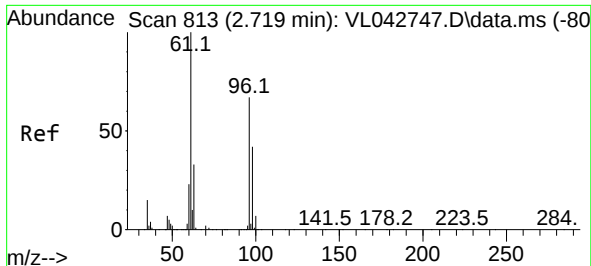
Ion Ratio Lower Upper

84 100

56 450.5 97.5 146.3#

41 0.0 67.2 100.8#

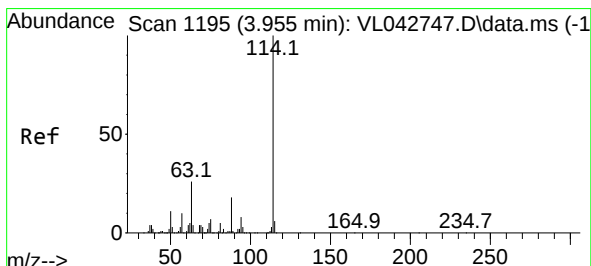
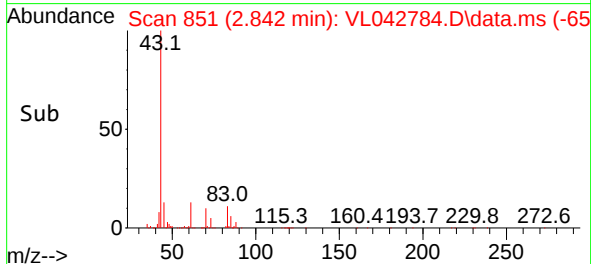
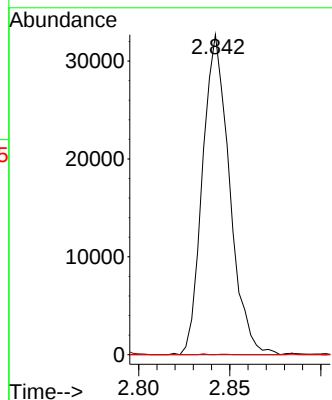
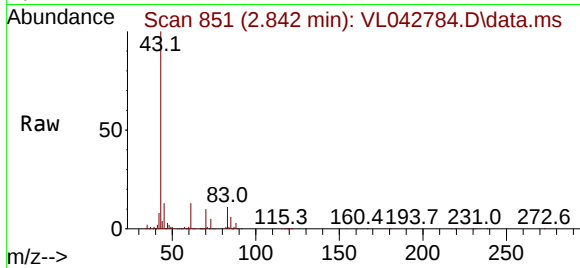




#31  
 cis-1,2-Dichloroethene  
 Concen: 1.638 ppbv  
 RT: 2.842 min Scan# 813  
 Delta R.T. 0.123 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

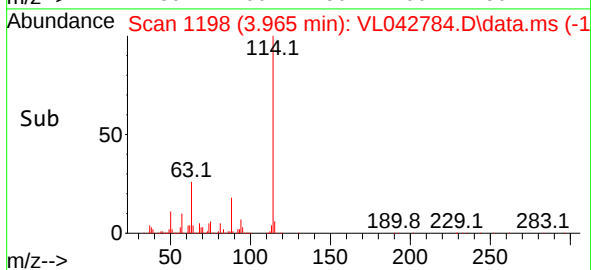
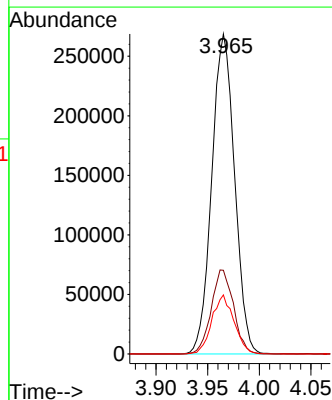
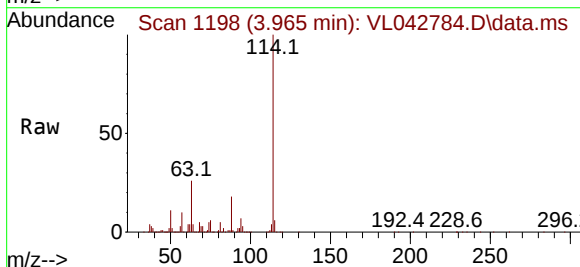
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

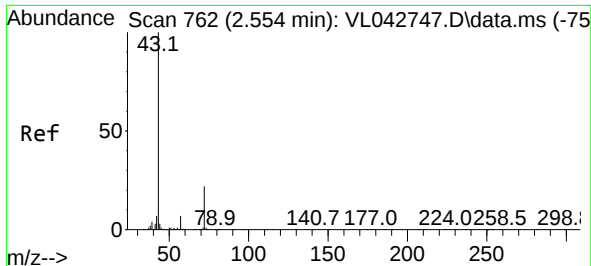
Tgt Ion: 61 Resp: 33724  
 Ion Ratio Lower Upper  
 61 100  
 96 0.0 53.5 80.3#  
 98 0.0 33.6 50.4#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.965 min Scan# 1198  
 Delta R.T. 0.010 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

Tgt Ion: 114 Resp: 412836  
 Ion Ratio Lower Upper  
 114 100  
 63 25.7 20.5 30.7  
 88 17.9 14.0 21.0

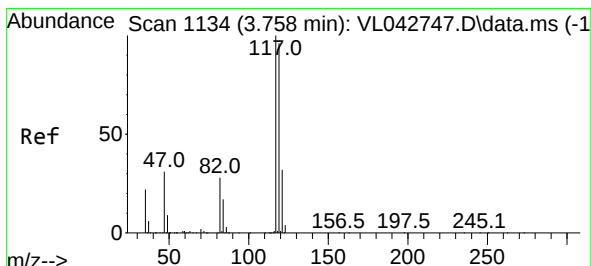
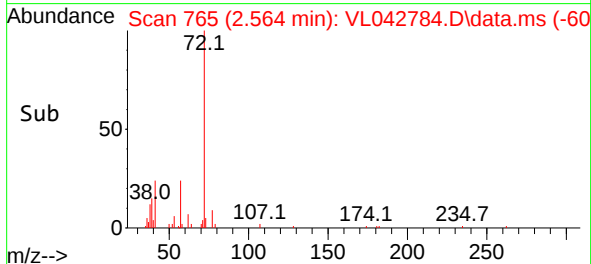
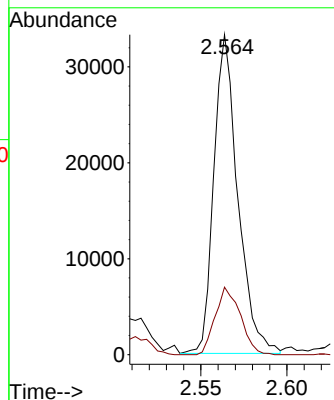
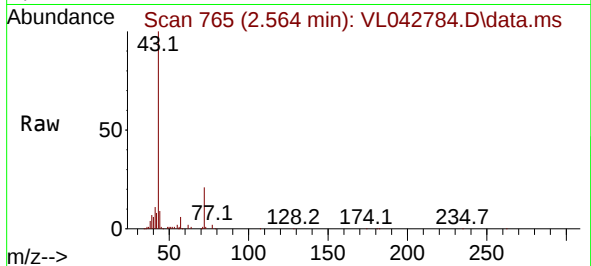




#34  
2-Butanone  
Concen: 1.102 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

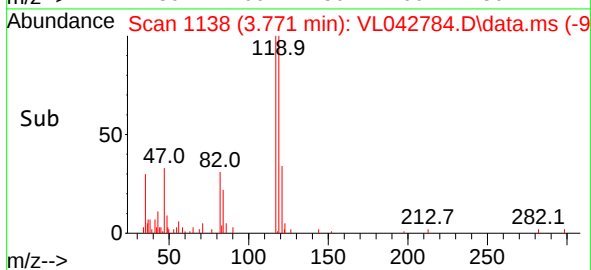
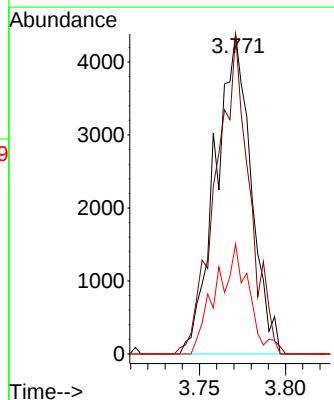
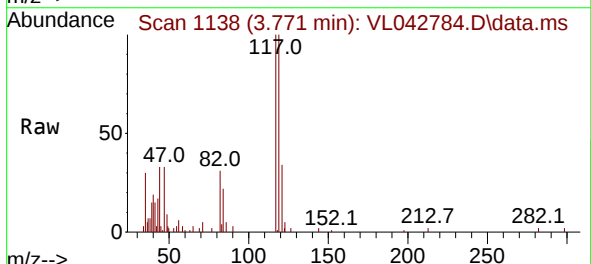
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

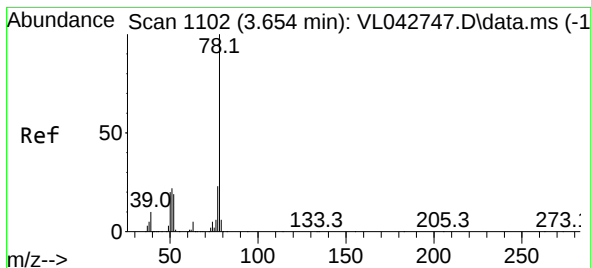
Tgt Ion: 43 Resp: 32223  
Ion Ratio Lower Upper  
43 100  
72 22.2 17.4 26.0



#35  
Carbon Tetrachloride  
Concen: 0.207 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.013 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 117 Resp: 6342  
Ion Ratio Lower Upper  
117 100  
119 98.0 77.1 115.7  
121 34.3 25.5 38.3





#36

Benzene

Concen: 0.259 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

IA3

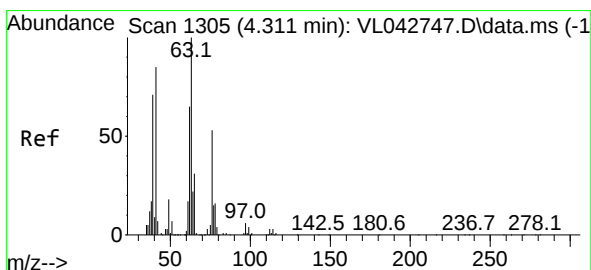
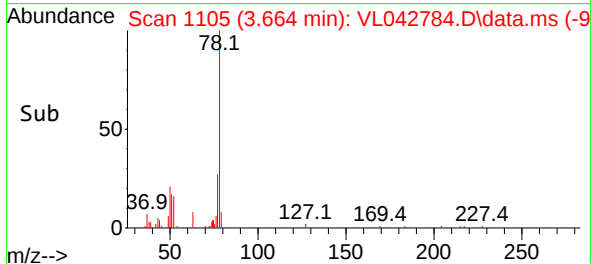
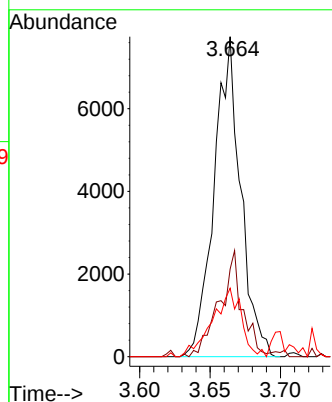
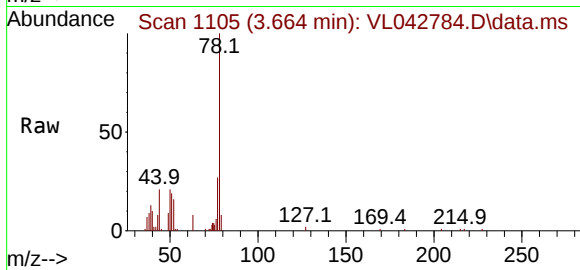
Tgt Ion: 78 Resp: 10145

Ion Ratio Lower Upper

78 100

77 27.3 18.5 27.7

50 21.4 16.2 24.2



#39

1,2-Dichloropropane

Concen: 7.331 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

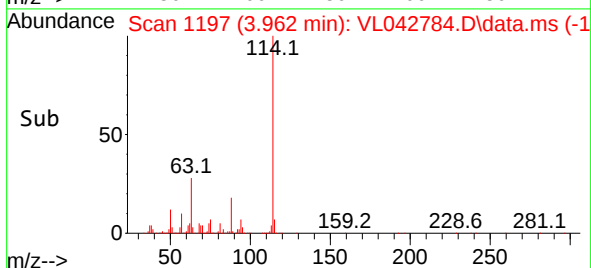
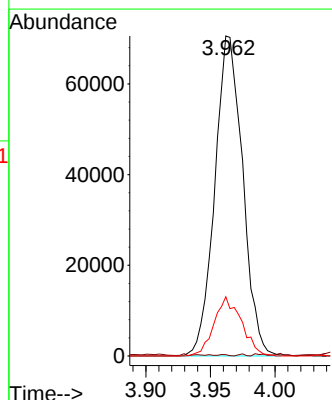
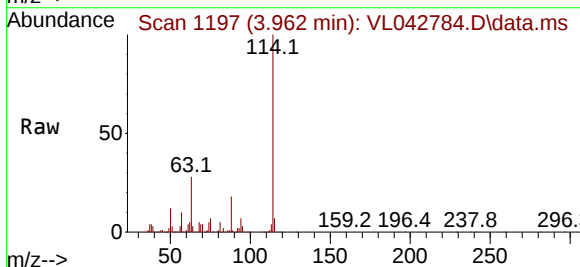
Tgt Ion: 63 Resp: 105881

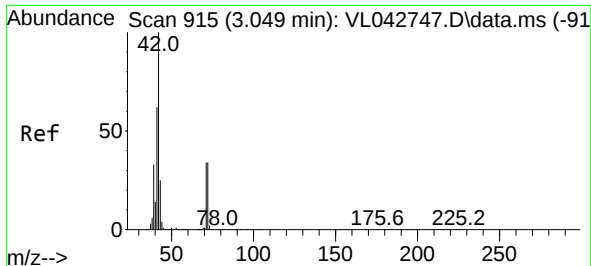
Ion Ratio Lower Upper

63 100

41 0.1 68.2 102.4#

62 18.5 52.0 78.0#

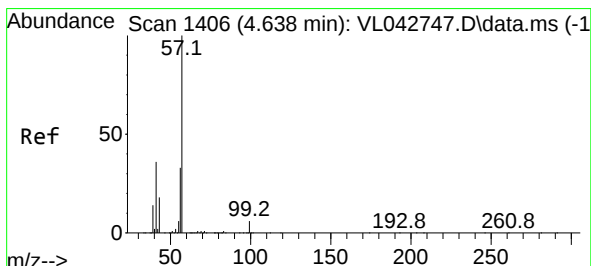
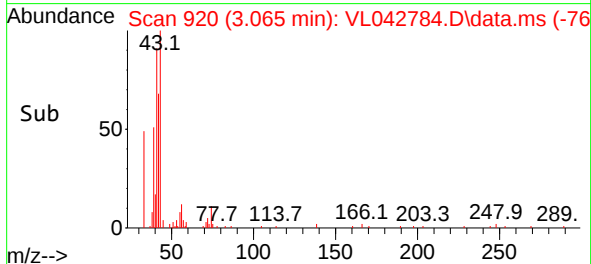
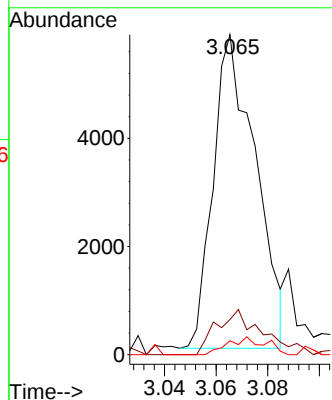
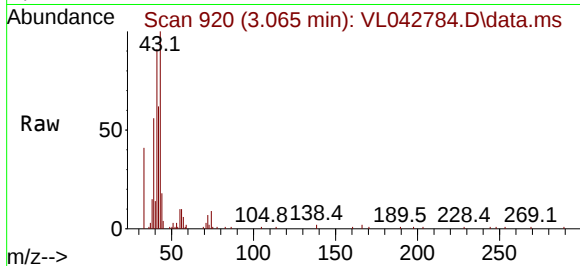




#41  
Tetrahydrofuran  
Concen: 0.444 ppbv  
RT: 3.065 min Scan# 915  
Delta R.T. 0.016 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

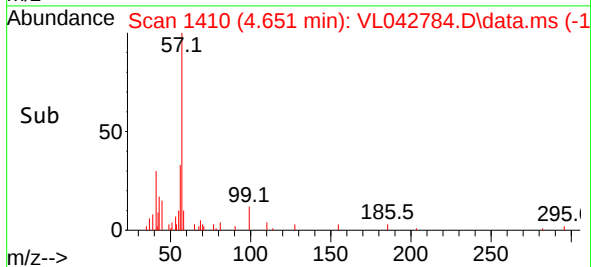
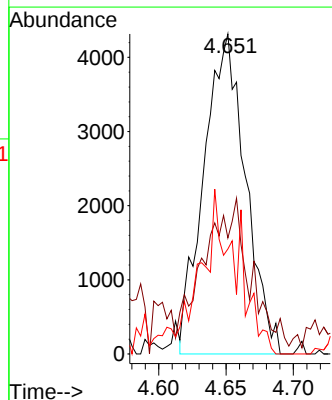
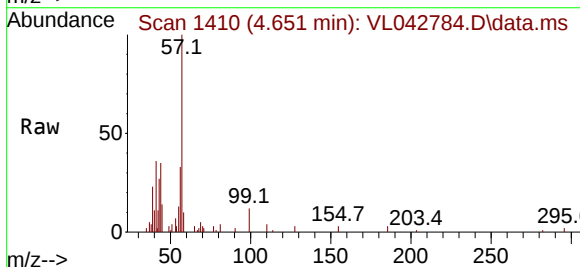
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

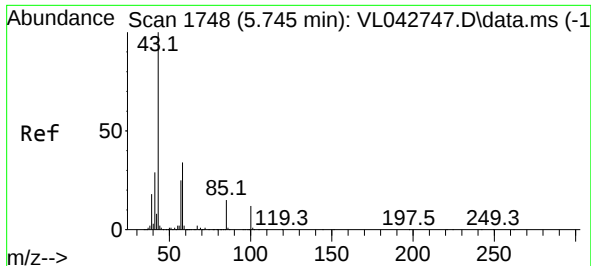
Tgt Ion: 42 Resp: 6611  
Ion Ratio Lower Upper  
42 100  
72 16.2 30.9 46.3#  
71 5.9 28.6 43.0#



#44  
2,2,4-Trimethylpentane  
Concen: 0.146 ppbv  
RT: 4.651 min Scan# 1410  
Delta R.T. 0.013 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 57 Resp: 9313  
Ion Ratio Lower Upper  
57 100  
41 51.1 28.3 42.5#  
56 50.9 25.8 38.6#





#50

4-Methyl-2-Pentanone

Concen: 1.371 ppbv

RT: 5.771 min Scan# 1756

Delta R.T. 0.026 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

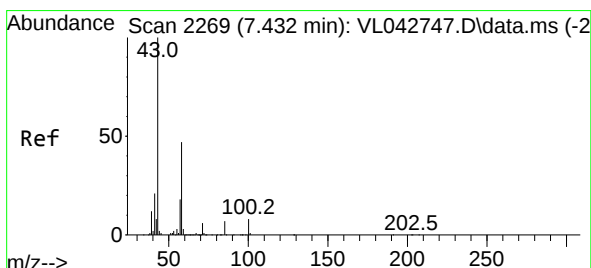
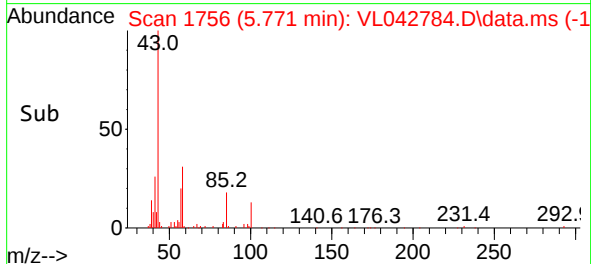
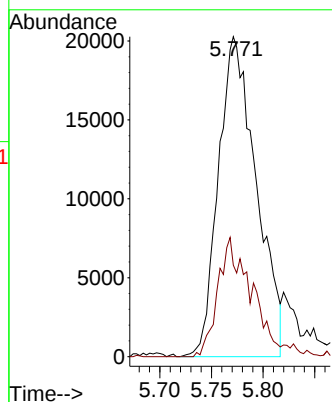
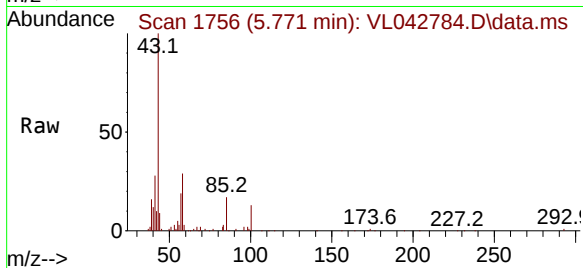
IA3

Tgt Ion: 43 Resp: 51635

Ion Ratio Lower Upper

43 100

58 34.4 27.8 41.8



#51

2-Hexanone

Concen: 0.073 ppbv

RT: 7.451 min Scan# 2275

Delta R.T. 0.019 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

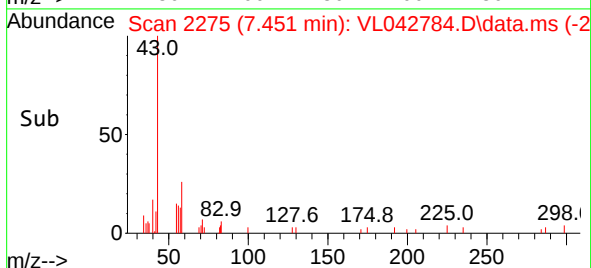
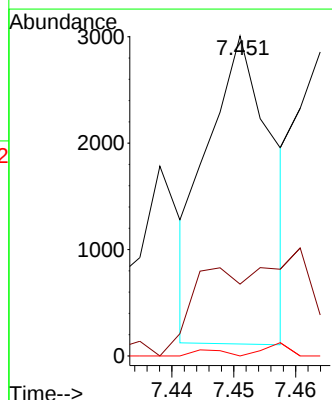
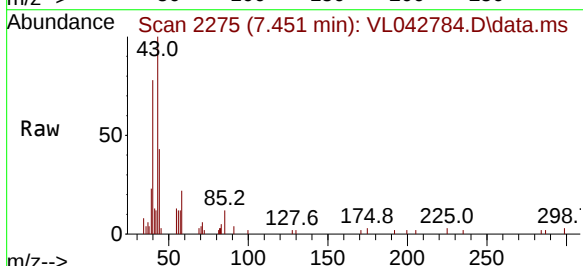
Tgt Ion: 43 Resp: 2080

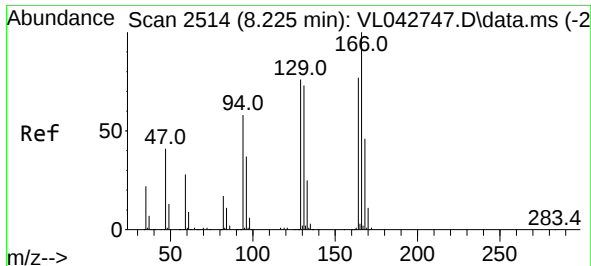
Ion Ratio Lower Upper

43 100

58 0.0 38.0 57.0#

98 0.0 0.2 0.4#

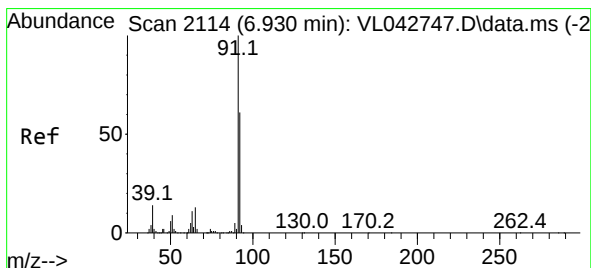
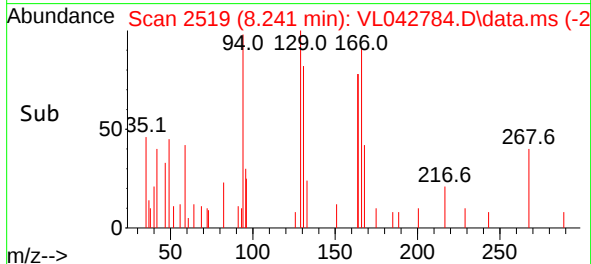
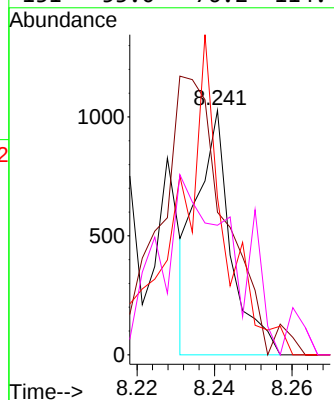
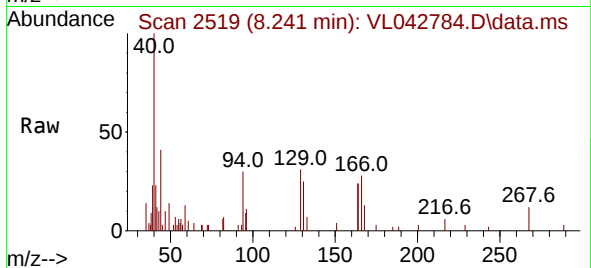




#52  
Tetrachloroethene  
Concen: 0.039 ppbv  
RT: 8.241 min Scan# 2118  
Delta R.T. 0.016 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

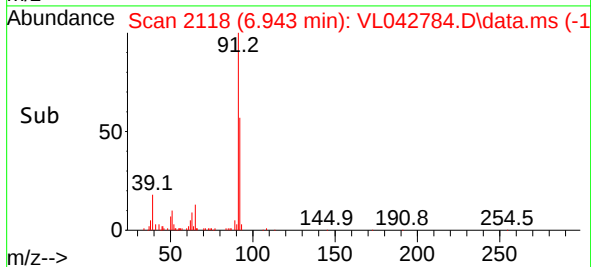
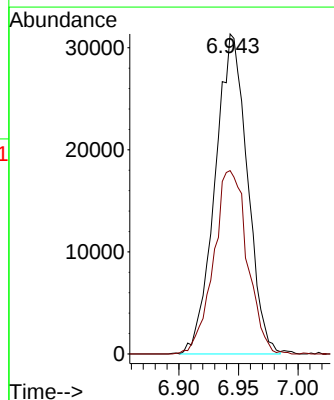
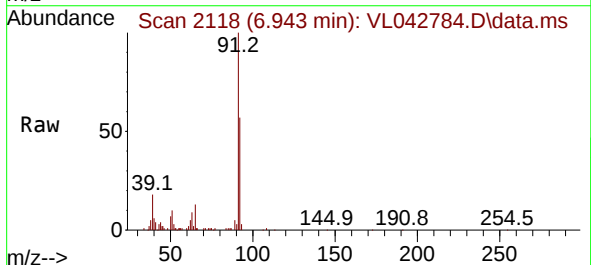
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

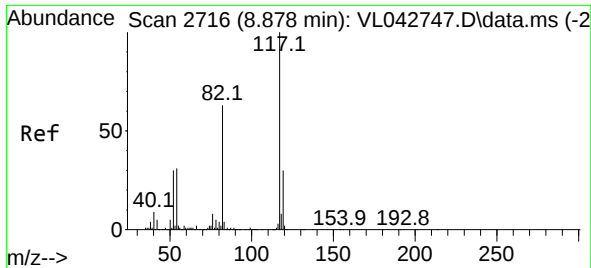
Tgt Ion:164 Resp: 628  
Ion Ratio Lower Upper  
164 100  
166 45.7 104.0 156.0#  
129 52.6 79.2 118.8#  
131 53.0 76.2 114.4#



#53  
Toluene  
Concen: 1.407 ppbv  
RT: 6.943 min Scan# 2118  
Delta R.T. 0.013 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 91 Resp: 59133  
Ion Ratio Lower Upper  
91 100  
92 59.7 48.0 72.0

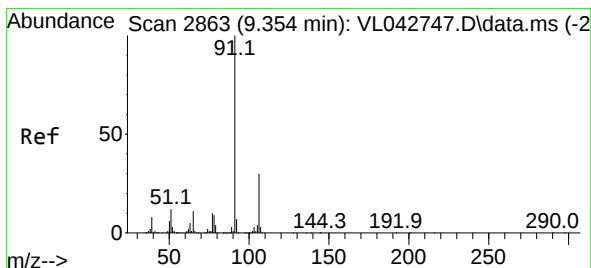
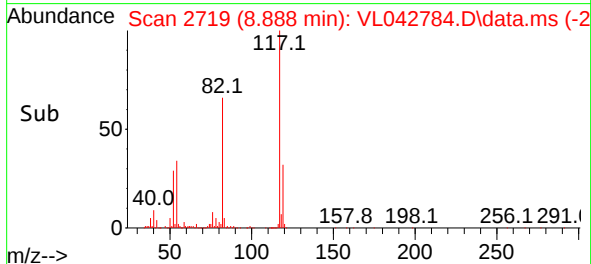
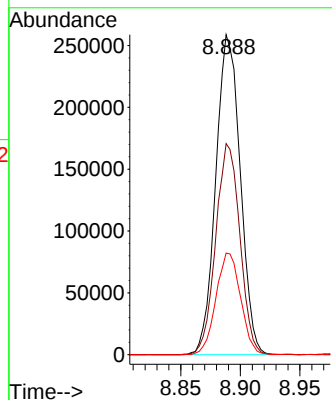
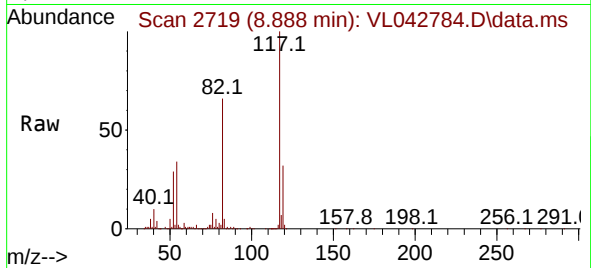




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

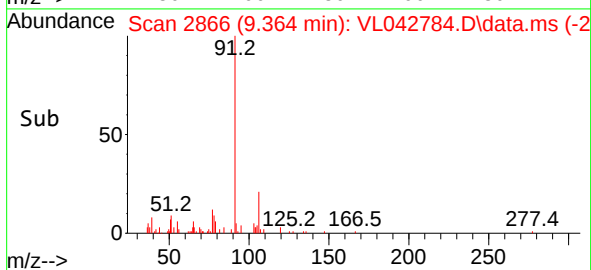
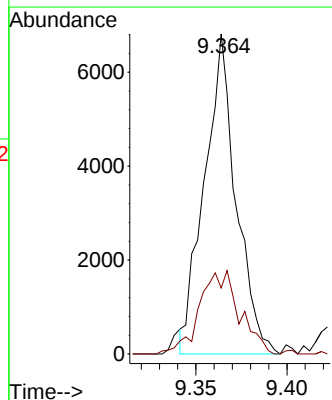
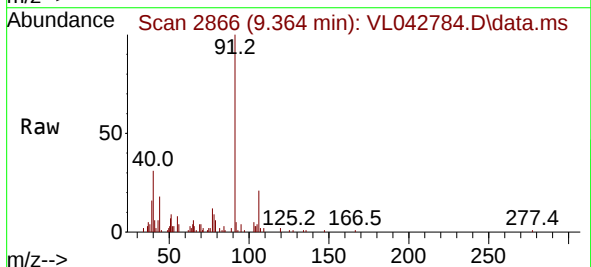
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

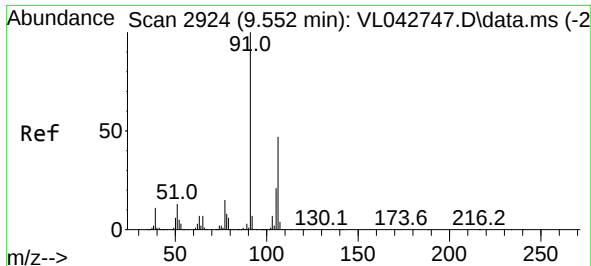
Tgt Ion:117 Resp: 369597  
Ion Ratio Lower Upper  
117 100  
82 65.1 53.3 79.9  
119 31.9 25.8 38.6



#58  
Ethyl Benzene  
Concen: 0.141 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 91 Resp: 8223  
Ion Ratio Lower Upper  
91 100  
106 19.8 23.8 35.6#





#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 9.561 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

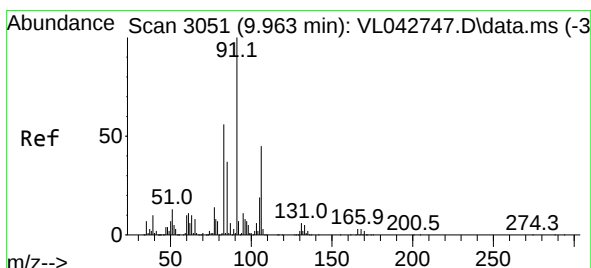
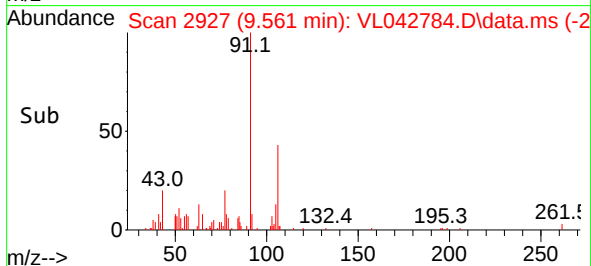
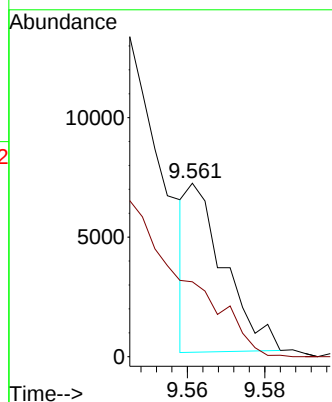
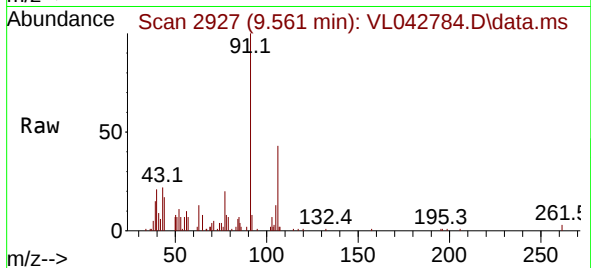
IA3

Tgt Ion: 91 Resp: 4686

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.330 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042784.D

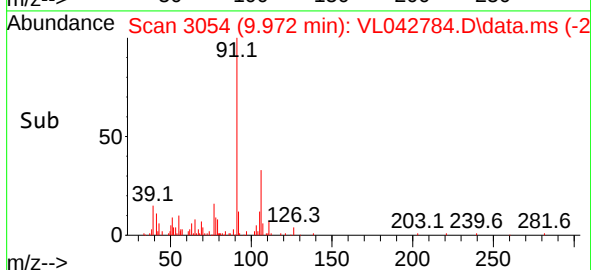
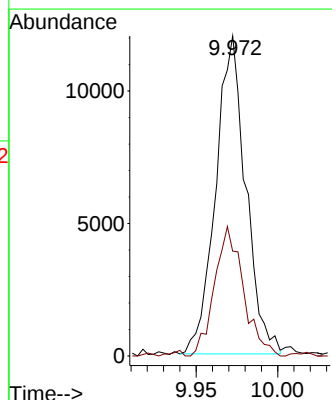
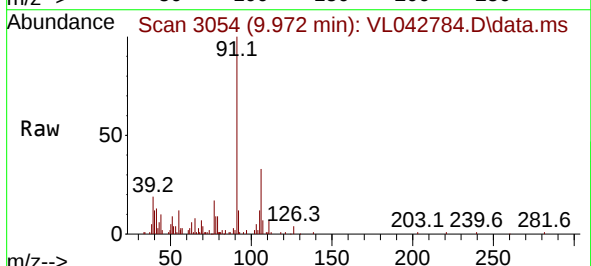
Acq: 29 Jul 2025 15:35

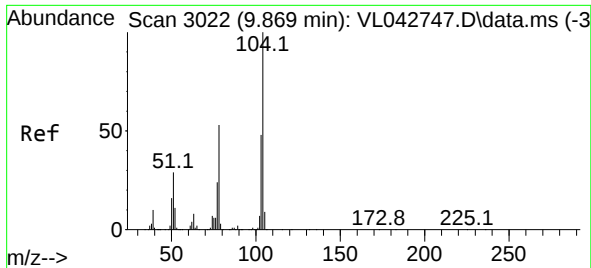
Tgt Ion: 91 Resp: 15404

Ion Ratio Lower Upper

91 100

106 40.4 22.0 66.0





#61

Styrene

Concen: 0.829 ppbv

RT: 9.882 min Scan# 3022

Delta R.T. 0.013 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

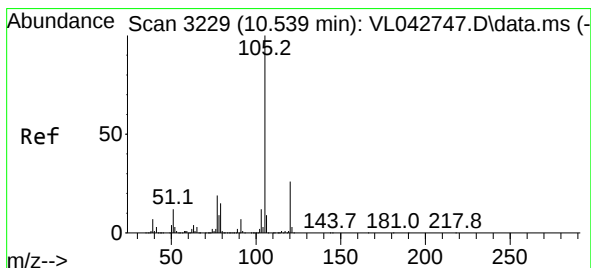
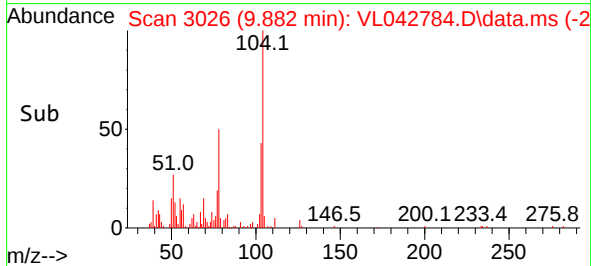
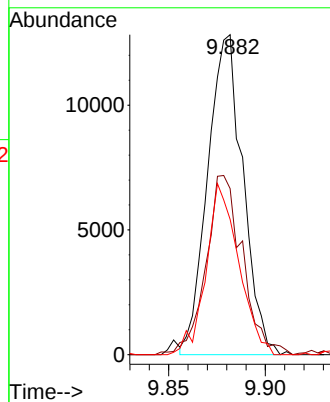
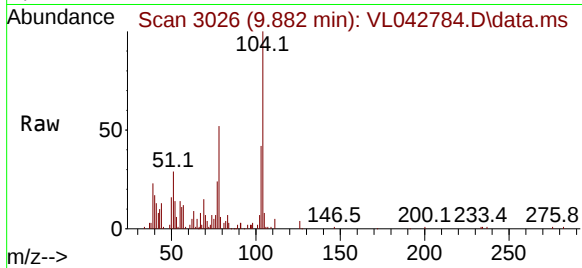
Instrument :

MSVOA\_L

ClientSampleId :

IA3

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 16256     |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 58.5  | 41.5 62.3 |
| 103         | 49.4  | 37.5 56.3 |



#62

Isopropylbenzene

Concen: 0.074 ppbv

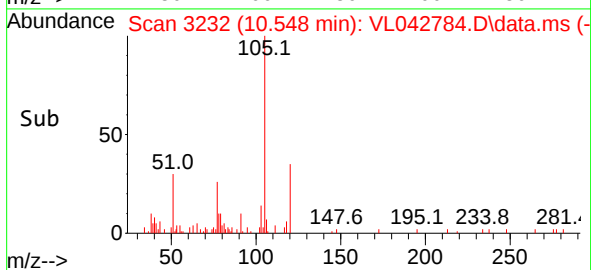
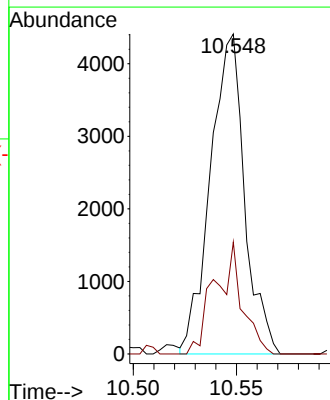
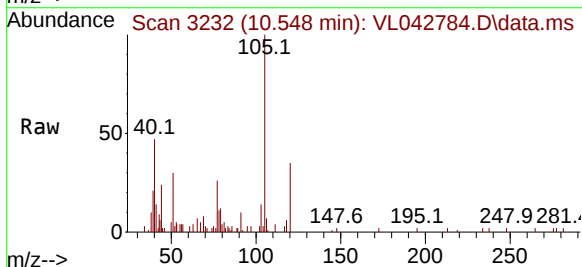
RT: 10.548 min Scan# 3232

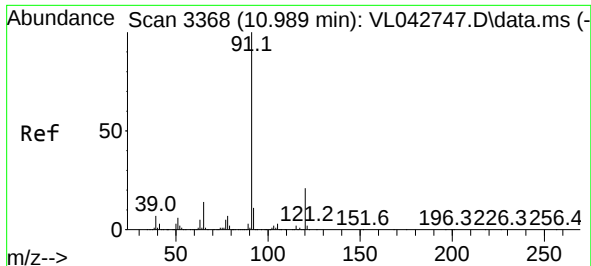
Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 5080      |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 28.8  | 20.5 30.7 |

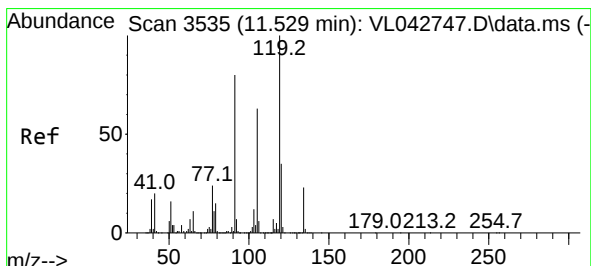
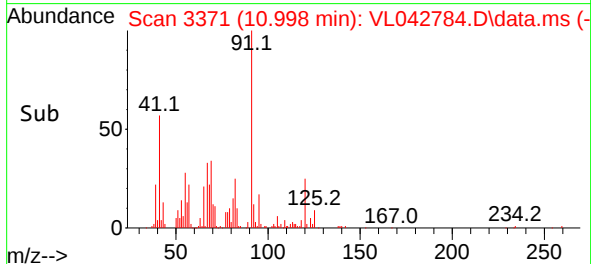
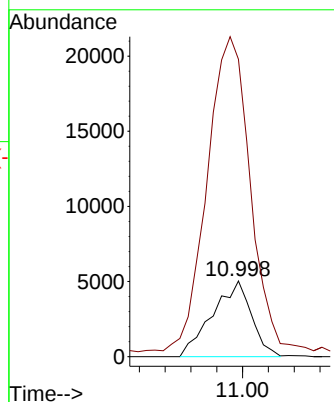
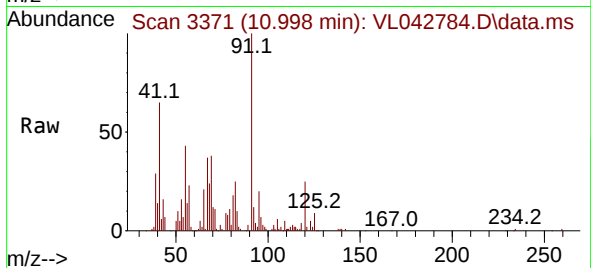




#64  
n-propylbenzene  
Concen: 0.295 ppbv  
RT: 10.998 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

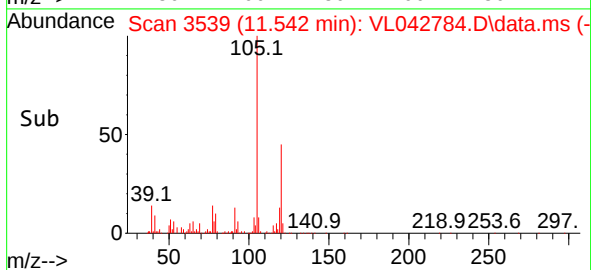
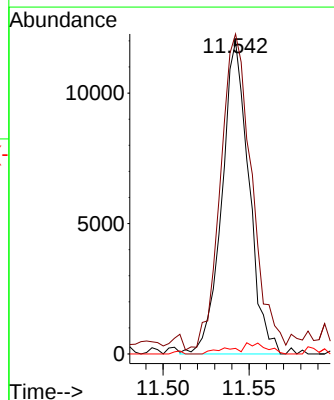
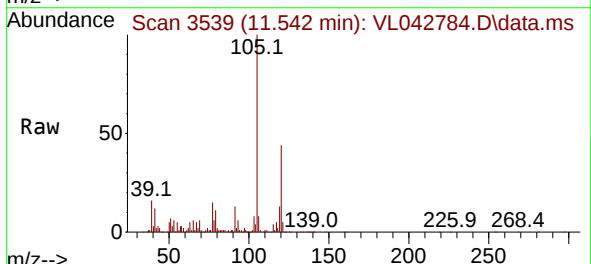
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

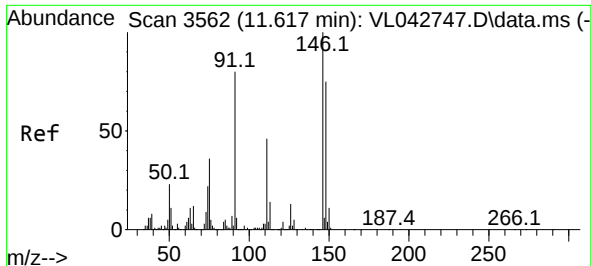
Tgt Ion:120 Resp: 5296  
Ion Ratio Lower Upper  
120 100  
91 475.9 372.7 559.1



#65  
tert-Butylbenzene  
Concen: 0.214 ppbv  
RT: 11.542 min Scan# 3539  
Delta R.T. 0.013 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion:119 Resp: 13070  
Ion Ratio Lower Upper  
119 100  
91 109.7 64.0 96.0#  
134 4.7 17.3 25.9#

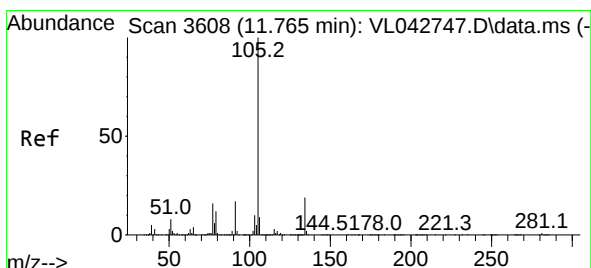
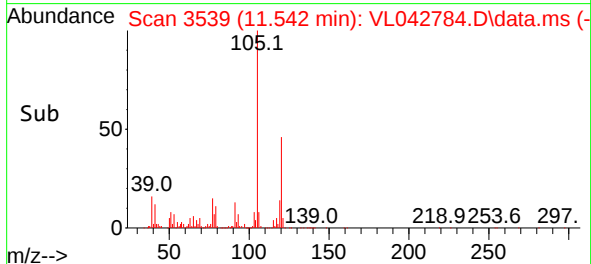
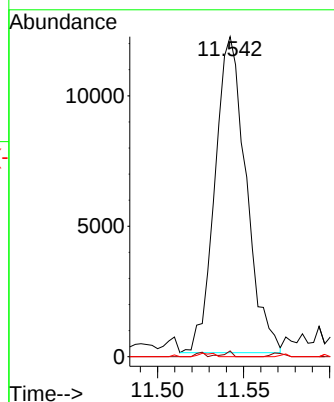
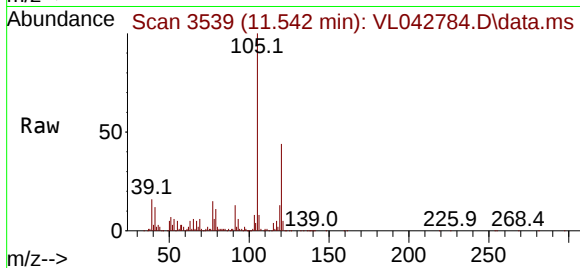




#66  
Benzyl Chloride  
Concen: 3.046 ppbv  
RT: 11.542 min Scan# 31  
Delta R.T. -0.074 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

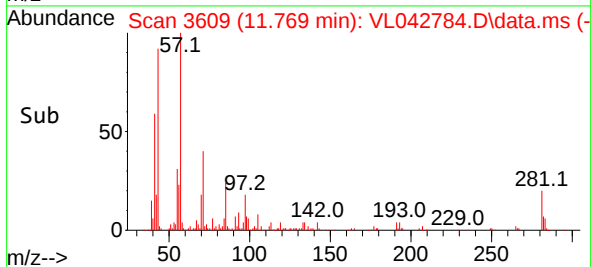
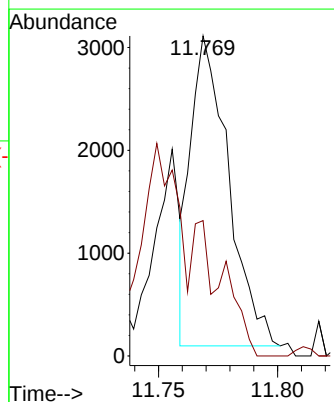
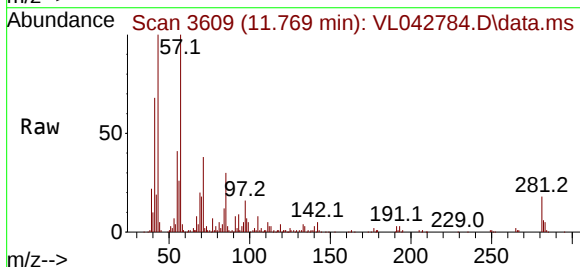
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

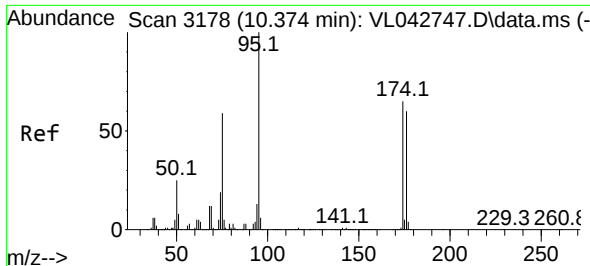
Tgt Ion: 91 Resp: 15273  
Ion Ratio Lower Upper  
91 100  
126 0.9 14.4 21.6#  
128 0.6 5.2 7.8#



#67  
sec-Butylbenzene  
Concen: 0.038 ppbv  
RT: 11.769 min Scan# 3609  
Delta R.T. 0.003 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 105 Resp: 3335  
Ion Ratio Lower Upper  
105 100  
134 0.0 15.5 23.3#

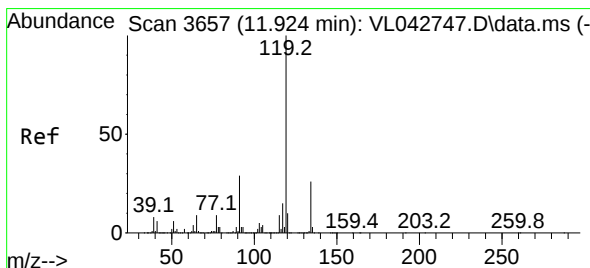
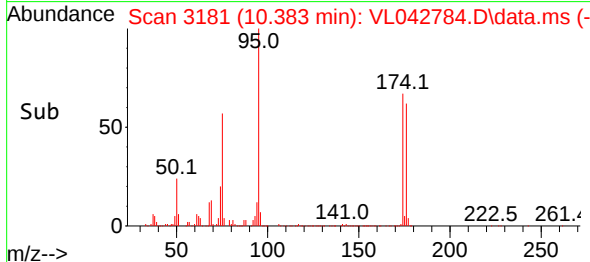
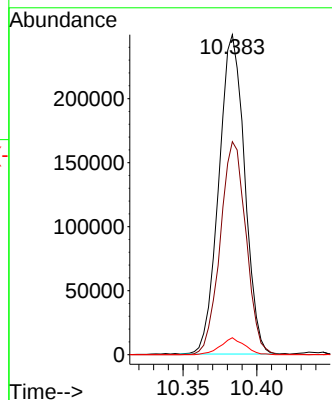
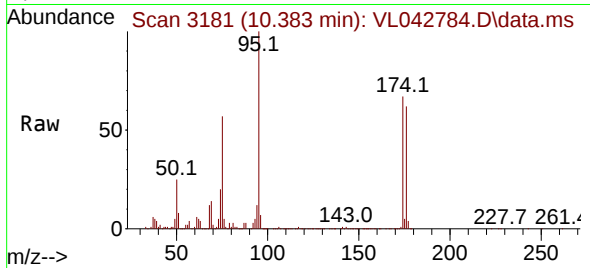




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.352 ppbv  
RT: 10.383 min Scan# 3178  
Delta R.T. 0.010 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

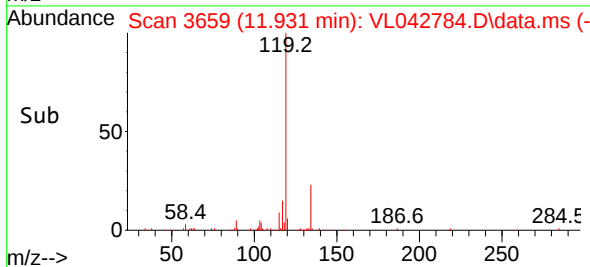
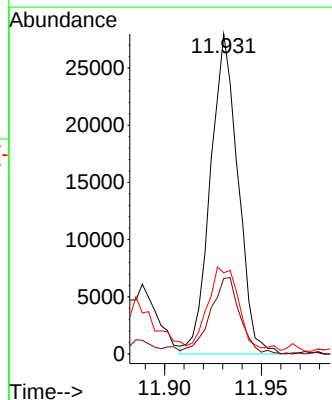
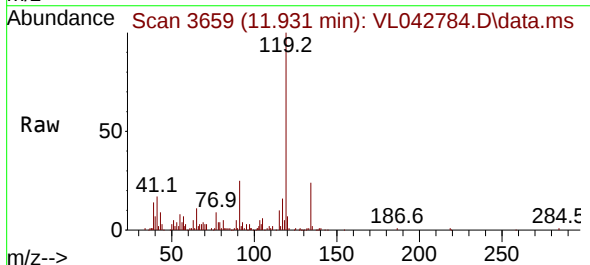
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

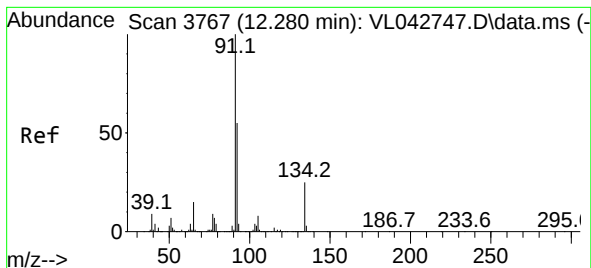
Tgt Ion: 95 Resp: 302994  
Ion Ratio Lower Upper  
95 100  
174 66.9 53.8 80.6  
175 4.9 4.0 6.0



#69  
p-Isopropyltoluene  
Concen: 0.391 ppbv  
RT: 11.931 min Scan# 3659  
Delta R.T. 0.006 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion: 119 Resp: 27703  
Ion Ratio Lower Upper  
119 100  
134 31.7 20.6 31.0#  
91 29.4 23.2 34.8





#70

n-Butylbenzene

Concen: 0.078 ppbv

RT: 12.348 min Scan# 31

Delta R.T. 0.068 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

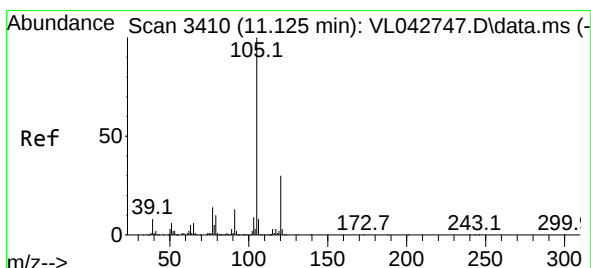
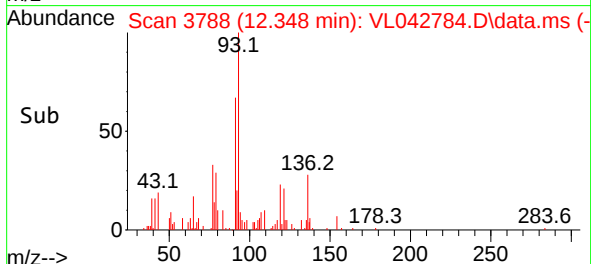
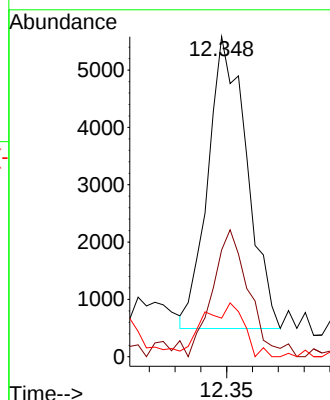
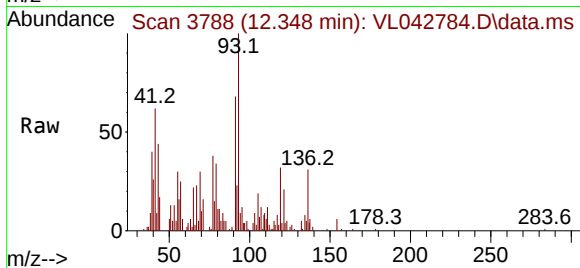
Instrument :

MSVOA\_L

ClientSampleId :

IA3

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 5314  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 0.0   | 43.4  | 65.2# |
| 134      | 19.6  | 19.6  | 29.4# |



#72

4-Ethyltoluene

Concen: 0.452 ppbv

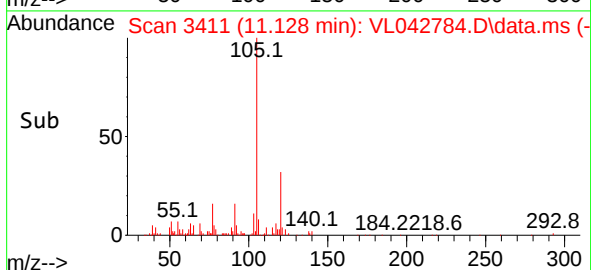
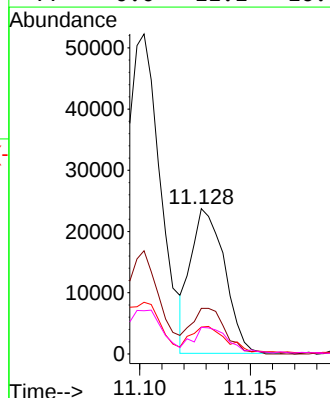
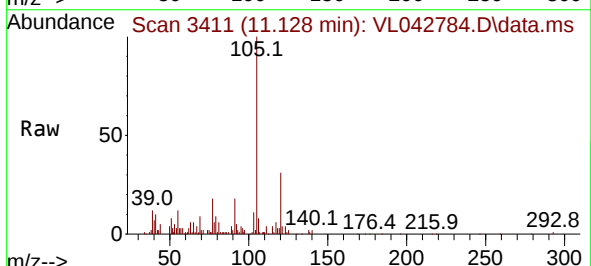
RT: 11.128 min Scan# 3411

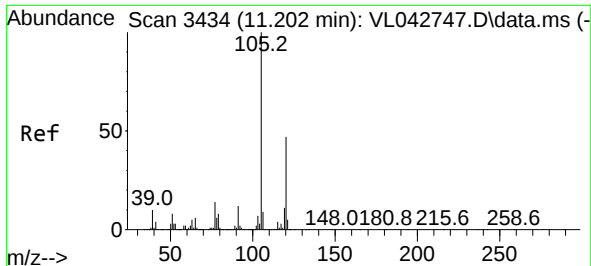
Delta R.T. 0.003 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 25180 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 0.0   | 24.4  | 36.6# |
| 91       | 0.0   | 10.6  | 15.8# |
| 77       | 0.0   | 11.1  | 16.7# |

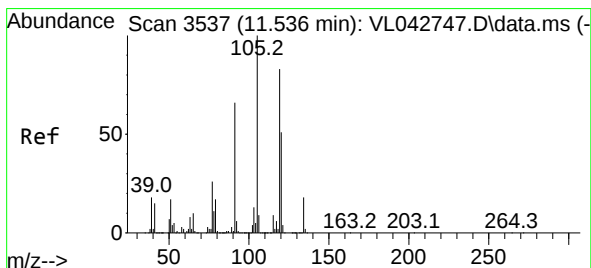
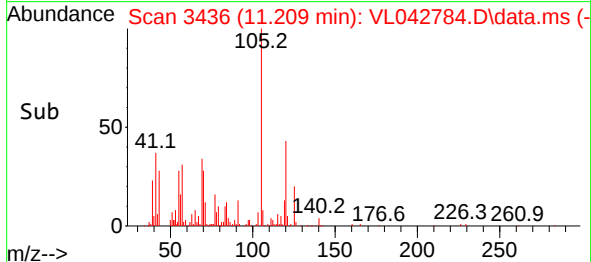
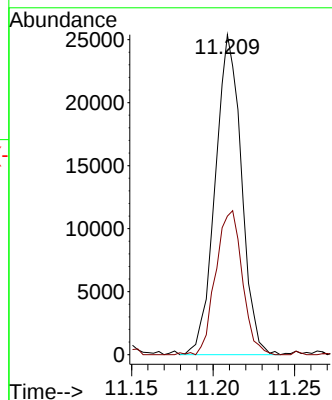
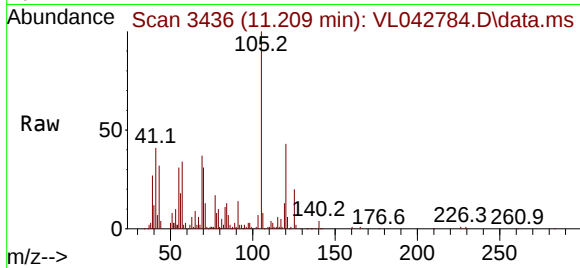




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.618 ppbv  
 RT: 11.209 min Scan# 3434  
 Delta R.T. 0.006 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

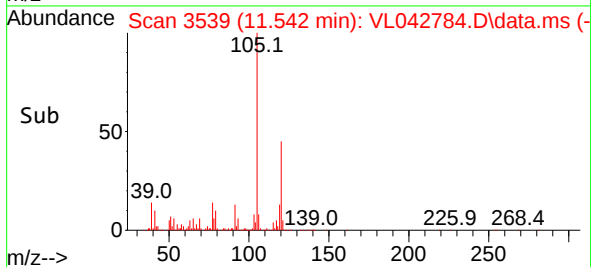
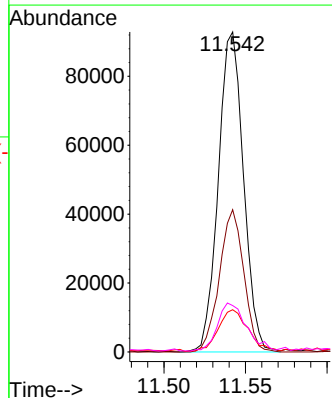
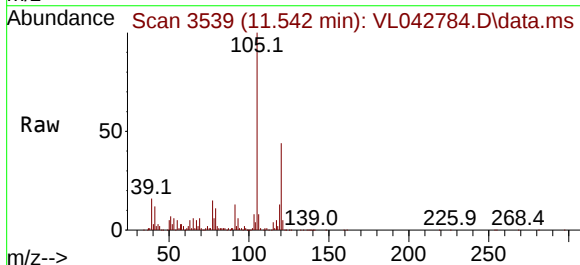
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA3

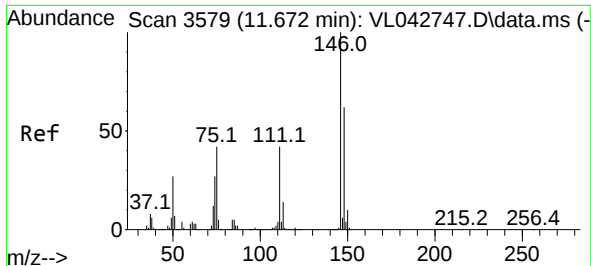
Tgt Ion:105 Resp: 28346  
 Ion Ratio Lower Upper  
 105 100  
 120 43.3 37.8 56.8



#74  
 1,2,4-Trimethylbenzene  
 Concen: 1.994 ppbv  
 RT: 11.542 min Scan# 3539  
 Delta R.T. 0.006 min  
 Lab File: VL042784.D  
 Acq: 29 Jul 2025 15:35

Tgt Ion:105 Resp: 99678  
 Ion Ratio Lower Upper  
 105 100  
 120 44.5 40.8 61.2  
 91 12.8 53.0 79.4#  
 77 14.2 20.5 30.7#

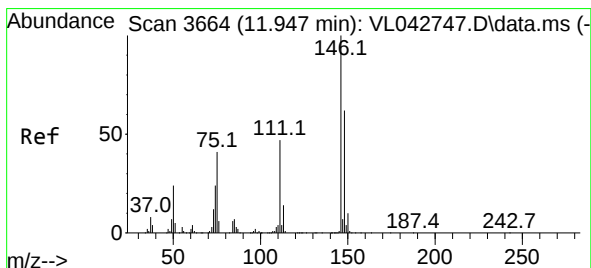
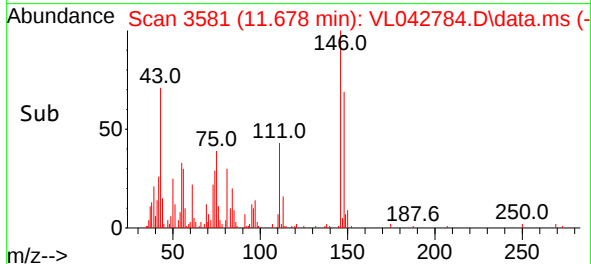
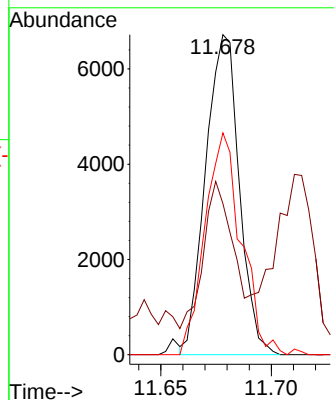
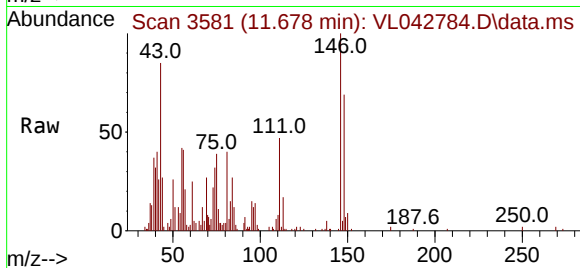




#76  
1,4-Dichlorobenzene  
Concen: 0.207 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.006 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

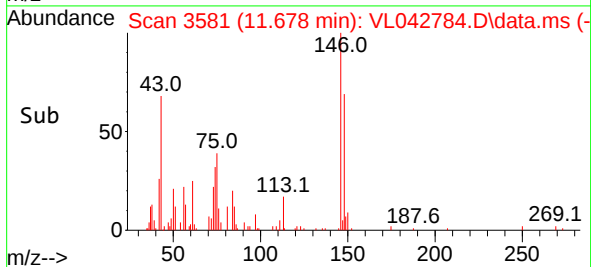
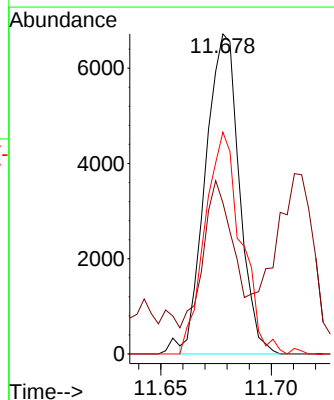
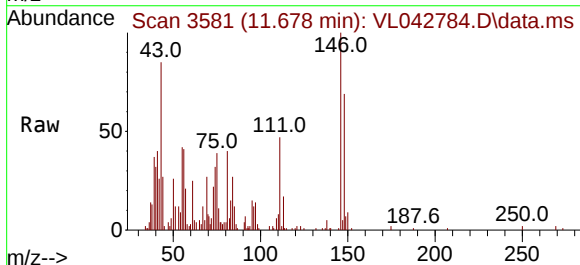
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA3

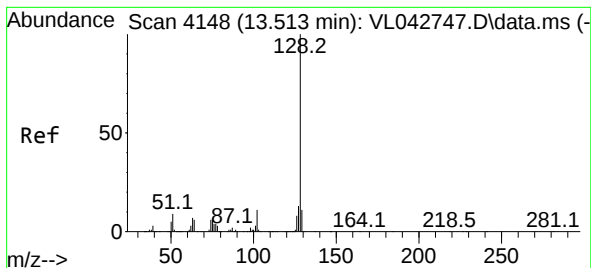
Tgt Ion:146 Resp: 7100  
Ion Ratio Lower Upper  
146 100  
111 47.0 21.4 64.2  
148 75.5 32.1 96.3



#77  
1,2-Dichlorobenzene  
Concen: 0.206 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. -0.269 min  
Lab File: VL042784.D  
Acq: 29 Jul 2025 15:35

Tgt Ion:146 Resp: 7100  
Ion Ratio Lower Upper  
146 100  
111 41.8 23.7 71.1  
148 75.5 32.6 97.7





#79

Naphthalene

Concen: 0.708 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.006 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

IA3

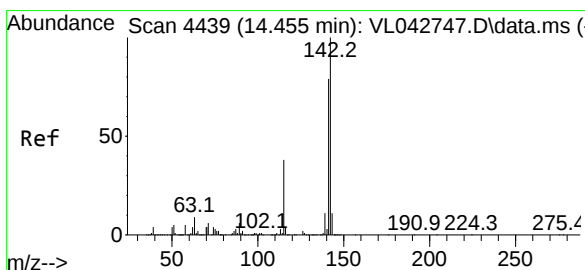
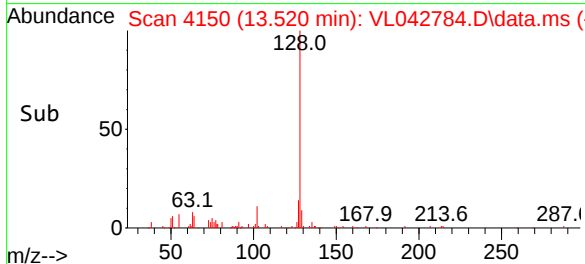
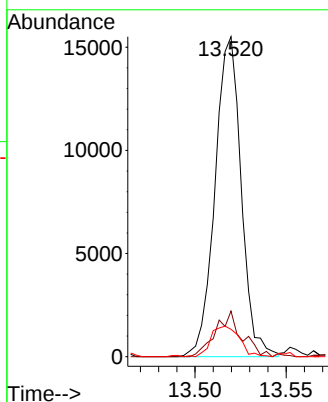
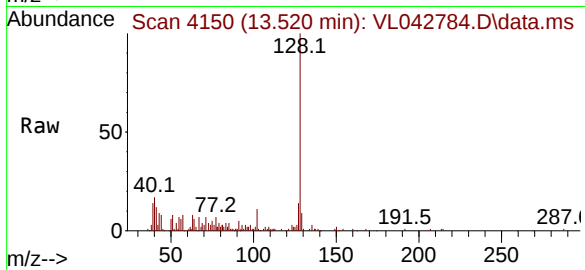
Tgt Ion:128 Resp: 15482

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

129 8.2 8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 1.144 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.016 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

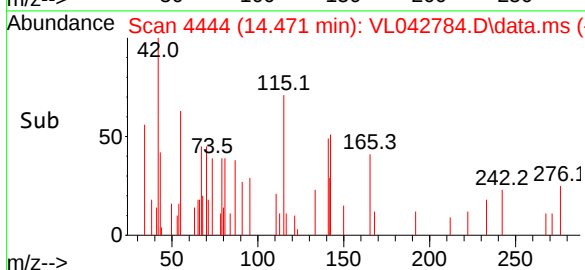
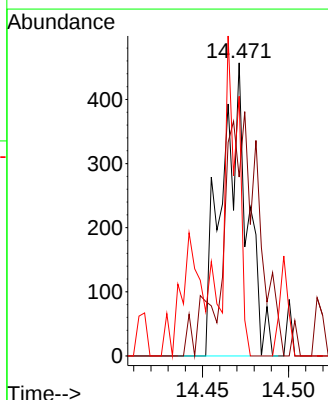
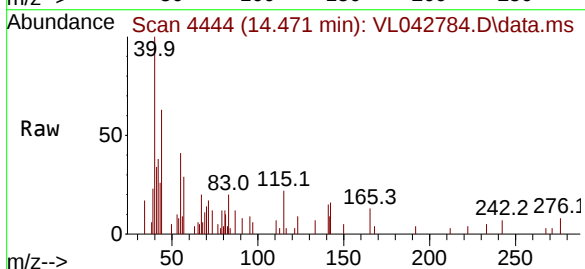
Tgt Ion:142 Resp: 477

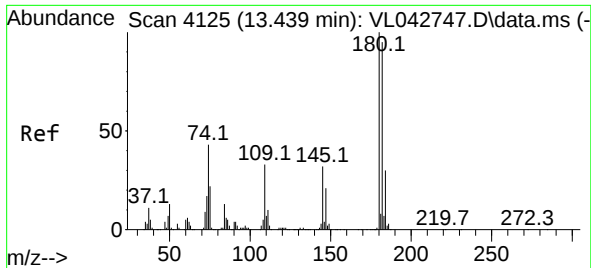
Ion Ratio Lower Upper

142 100

141 124.3 65.8 98.8#

115 110.7 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.443 ppbv

RT: 13.397 min Scan# 41

Delta R.T. -0.042 min

Lab File: VL042784.D

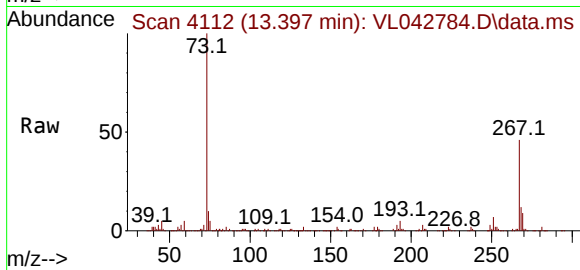
Acq: 29 Jul 2025 15:35

Instrument :

MSVOA\_L

ClientSampleId :

IA3



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 269    |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 0.0   | 76.2  | 114.2# |
| 184      | 0.0   | 24.8  | 37.2#  |

