

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051225\  
 Data File : VL042532.D  
 Acq On : 12 May 2025 12:58  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: May 12 23:50:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL051225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Mon May 12 23:42:45 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025  
 Supervised By : Mahesh Dadoda 05/14/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 103341   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 300628   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 251305   | 10.000 | ppbv  | 0.01     |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 10.374 95 223868 10.238 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.400%

| Target Compounds              | Qvalue |     |        |       |        |     |
|-------------------------------|--------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.496  | 85  | 34904  | 2.080 | ppbv   | 96  |
| 3) Chlorodifluoromethane      | 1.473  | 51  | 37203  | 2.175 | ppbv   | 99  |
| 4) Chloromethane              | 1.528  | 50  | 15355  | 2.242 | ppbv   | 98  |
| 5) Vinyl Chloride             | 1.577  | 62  | 13527  | 1.930 | ppbv   | 100 |
| 6) Bromomethane               | 1.664  | 94  | 6881   | 2.068 | ppbv   | 92  |
| 7) Chloroethane               | 1.703  | 64  | 6208m  | 2.251 | ppbv   |     |
| 8) Dichlorotetrafluoroethane  | 1.551  | 85  | 29662  | 2.054 | ppbv   | 98  |
| 9) Propene                    | 1.479  | 41  | 3429   | 0.923 | ppbv # | 1   |
| 10) Heptane                   | 4.975  | 43  | 28195  | 1.991 | ppbv   | 97  |
| 11) Trichlorofluoromethane    | 1.874  | 101 | 34879  | 2.161 | ppbv   | 92  |
| 12) 1,1,2-Trichlorotrifluo... | 2.136  | 101 | 27757  | 2.141 | ppbv   | 95  |
| 13) Ethanol                   | 1.719  | 45  | 1983   | 1.956 | ppbv   | 89  |
| 14) Bromoethene               | 1.780  | 108 | 10359  | 2.192 | ppbv   | 95  |
| 15) Acetone                   | 1.832  | 43  | 37463  | 2.269 | ppbv   | 98  |
| 16) 1,3-Butadiene             | 1.606  | 39  | 15833  | 2.132 | ppbv   | 95  |
| 17) tert-Butyl alcohol        | 2.039  | 59  | 30915  | 2.026 | ppbv   | 98  |
| 18) 1,1-Dichloroethene        | 2.033  | 96  | 11781  | 2.073 | ppbv   | 87  |
| 19) Isopropyl Alcohol         | 1.884  | 45  | 18501  | 2.062 | ppbv # | 95  |
| 20) Methylene Chloride        | 2.059  | 84  | 11357  | 1.975 | ppbv   | 93  |
| 21) Allyl Chloride            | 2.094  | 41  | 22565  | 2.064 | ppbv   | 96  |
| 22) trans-1,2-Dichloroethene  | 2.337  | 96  | 14573  | 2.193 | ppbv   | 81  |
| 23) Vinyl Acetate             | 2.460  | 43  | 34320  | 1.985 | ppbv # | 97  |
| 24) 1,1-Dichloroethane        | 2.405  | 63  | 27421  | 2.132 | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.836  | 43  | 61595  | 2.124 | ppbv   | 100 |
| 26) Hexane                    | 2.823  | 57  | 23715  | 1.992 | ppbv   | 86  |
| 27) Carbon Disulfide          | 2.146  | 76  | 31735  | 2.065 | ppbv # | 94  |
| 28) Methyl tert-Butyl Ether   | 2.438  | 73  | 13425  | 2.030 | ppbv   | 94  |
| 29) Chloroform                | 2.845  | 83  | 51800  | 2.098 | ppbv   | 97  |
| 30) Cyclohexane               | 3.855  | 84  | 18925  | 1.936 | ppbv   | 94  |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61  | 26277  | 1.955 | ppbv   | 88  |
| 32) 1,1,1-Trichloroethane     | 3.363  | 97  | 50640  | 2.033 | ppbv   | 98  |
| 34) 2-Butanone                | 2.557  | 43  | 39851  | 2.011 | ppbv   | 98  |
| 35) Carbon Tetrachloride      | 3.761  | 117 | 54873  | 2.030 | ppbv   | 89  |
| 36) Benzene                   | 3.651  | 78  | 52942  | 1.987 | ppbv   | 99  |
| 37) 1,2-Dichloroethane        | 3.214  | 62  | 39974  | 2.103 | ppbv   | 100 |
| 38) Trichloroethene           | 4.541  | 130 | 23078m | 2.027 | ppbv   |     |
| 39) 1,2-Dichloropropane       | 4.312  | 63  | 19038  | 1.920 | ppbv   | 92  |
| 40) 1,4-Dioxane               | 4.590  | 88  | 7446m  | 1.883 | ppbv   |     |
| 41) Tetrahydrofuran           | 3.059  | 42  | 17163m | 2.008 | ppbv   |     |
| 42) Bromodichloromethane      | 4.490  | 83  | 52451  | 2.072 | ppbv   | 92  |
| 43) Methyl Methacrylate       | 4.878  | 69  | 17050m | 1.916 | ppbv   |     |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57  | 86512m | 2.068 | ppbv   |     |
| 45) t-1,3-Dichloropropene     | 6.412  | 75  | 20334m | 1.790 | ppbv   |     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051225\  
 Data File : VL042532.D  
 Acq On : 12 May 2025 12:58  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:50:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL051225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

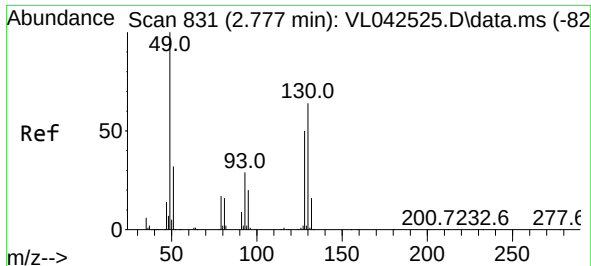
QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 25085m   | 1.831 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 23580m   | 2.019 | ppbv   |          |
| 48) Dibromochloromethane      | 7.383  | 129  | 40163    | 2.058 | ppbv   | 99       |
| 49) Bromoform                 | 9.480  | 173  | 32916    | 2.056 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 46331    | 1.994 | ppbv   | 96       |
| 51) 2-Hexanone                | 7.438  | 43   | 33088    | 1.916 | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.221  | 164  | 19118    | 1.863 | ppbv   | 94       |
| 53) Toluene                   | 6.930  | 91   | 49216    | 1.882 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 33420    | 1.958 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 33013    | 2.119 | ppbv   | 94       |
| 57) Chlorobenzene             | 8.917  | 112  | 54172    | 2.147 | ppbv   | 92       |
| 58) Ethyl Benzene             | 9.351  | 91   | 66256    | 1.934 | ppbv   | 91       |
| 59) m/p-Xylene                | 9.545  | 91   | 133205m  | 4.372 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 64958    | 2.188 | ppbv   | 99       |
| 61) Styrene                   | 9.869  | 104  | 19713m   | 1.802 | ppbv   |          |
| 62) Isopropylbenzene          | 10.539 | 105  | 96054    | 2.147 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 49909    | 2.096 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.989 | 120  | 25286    | 2.230 | ppbv   | 93       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 93604    | 2.278 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.613 | 91   | 11357m   | 2.089 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.765 | 105  | 136432   | 2.316 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 112913   | 2.332 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 112776   | 2.357 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 68153    | 2.012 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 79670    | 2.162 | ppbv   | 96       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 71983    | 2.242 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 96474    | 2.443 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 54948    | 2.221 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 53480    | 2.272 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 59194    | 2.317 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 49456    | 2.258 | ppbv   | 97       |
| 79) Naphthalene               | 13.513 | 128  | 69902    | 2.564 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 29203    | 1.841 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 37757    | 2.268 | ppbv   | 98       |

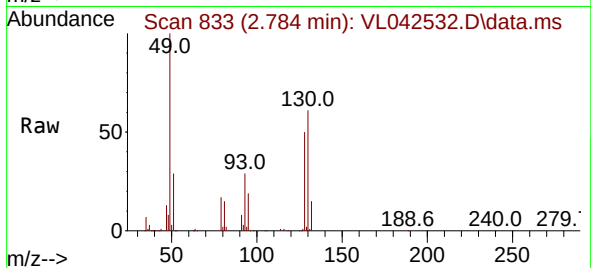
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 831  
Delta R.T. 0.007 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

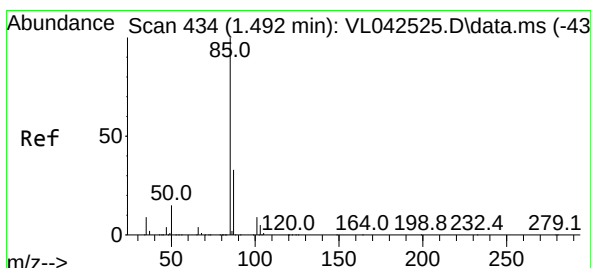
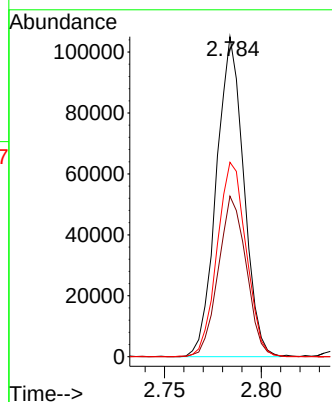
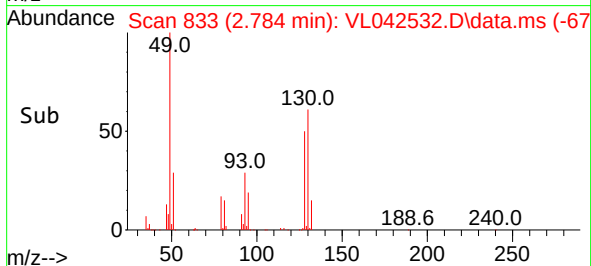
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 49 Resp: 10334  
Ion Ratio Lower Upper  
49 100  
128 51.0 24.9 74.6  
130 64.2 32.5 97.5

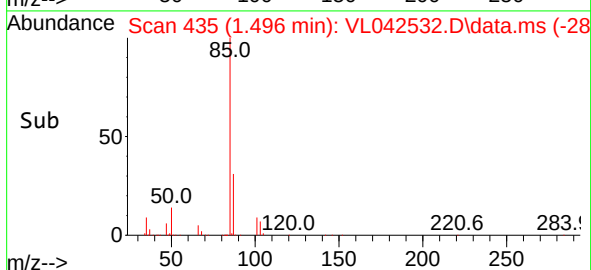
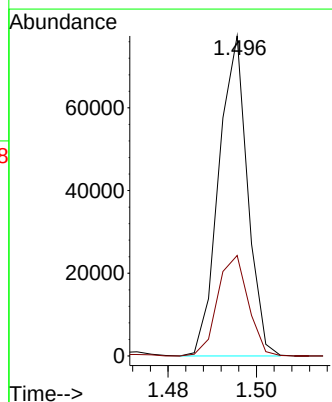
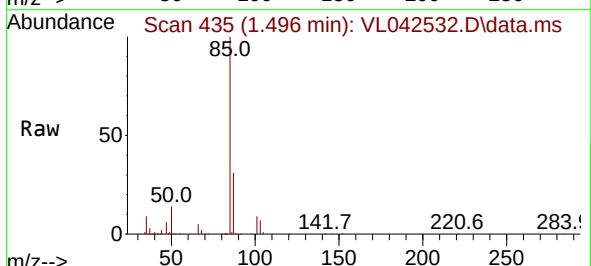
Manual Integrations  
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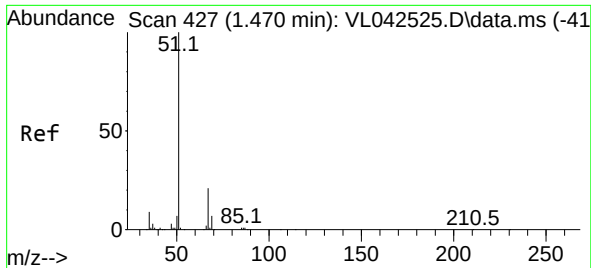
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#2  
Dichlorodifluoromethane  
Concen: 2.080 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 34904  
Ion Ratio Lower Upper  
85 100  
87 31.4 26.8 40.2





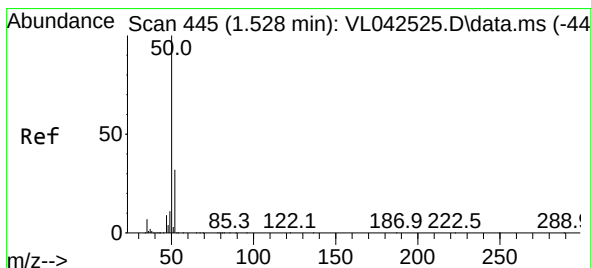
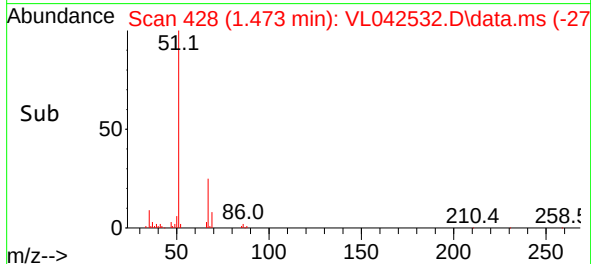
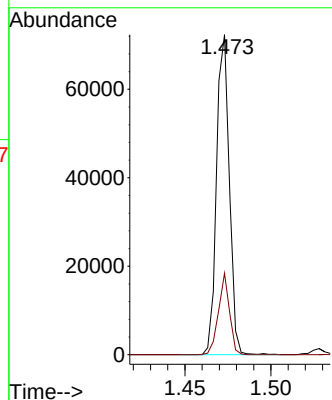
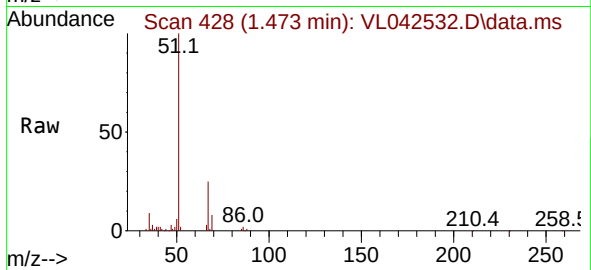
#3  
Chlorodifluoromethane  
Concen: 2.175 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 51 Resp: 3720  
Ion Ratio Lower Upper  
51 100  
67 22.0 17.4 26.0

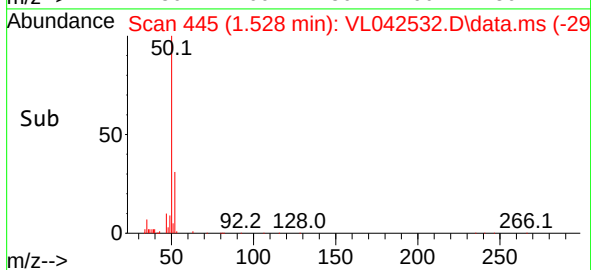
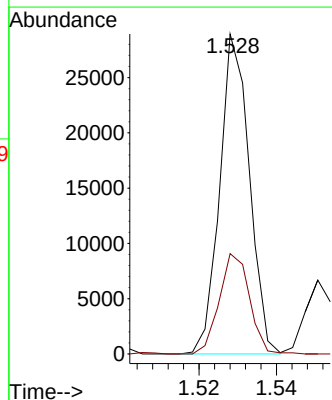
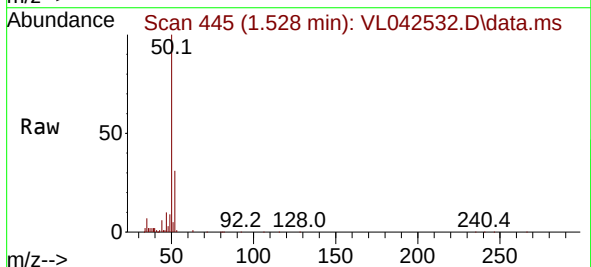
Manual Integrations  
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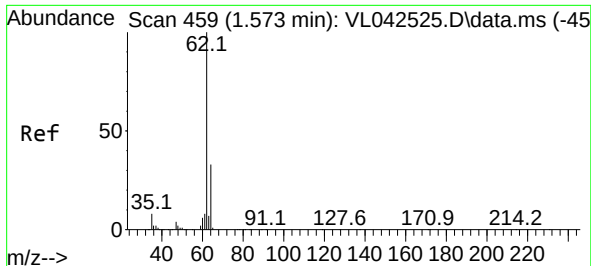
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#4  
Chloromethane  
Concen: 2.242 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.000 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion: 50 Resp: 15355  
Ion Ratio Lower Upper  
50 100  
52 31.3 25.9 38.9





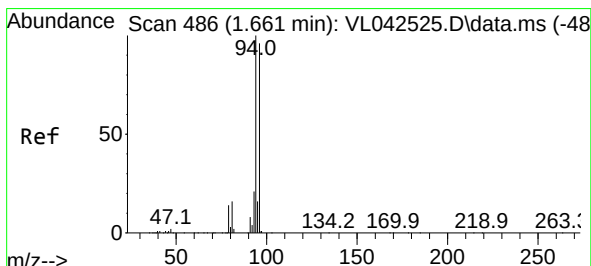
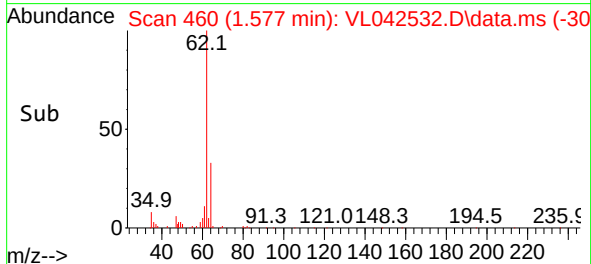
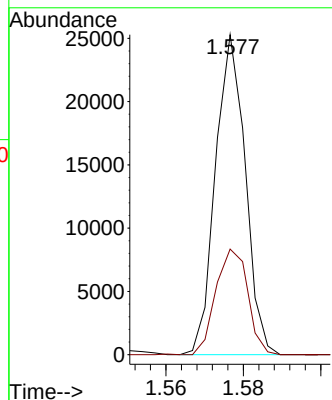
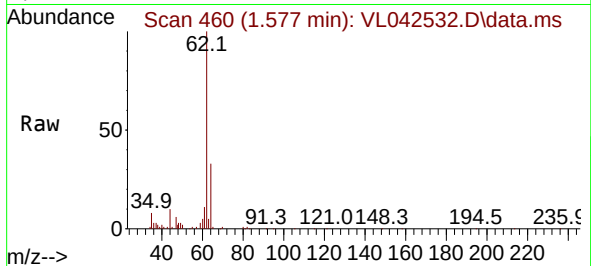
#5  
 Vinyl Chloride  
 Concen: 1.930 ppbv  
 RT: 1.577 min Scan# 459  
 Delta R.T. 0.003 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Tgt Ion: 62 Resp: 1352  
 Ion Ratio Lower Upper  
 62 100  
 64 33.0 26.5 39.7

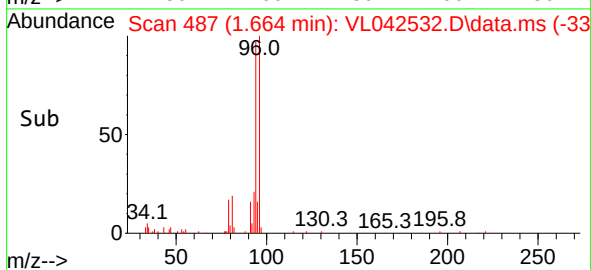
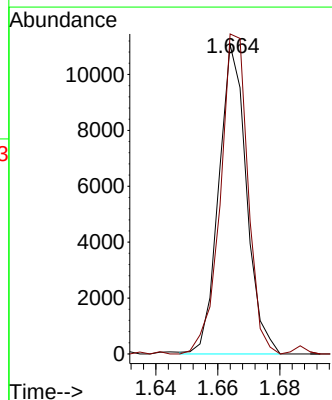
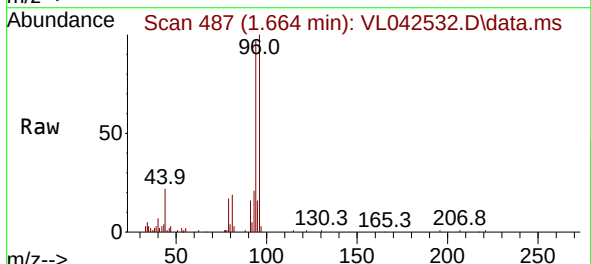
Manual Integrations  
 APPROVED

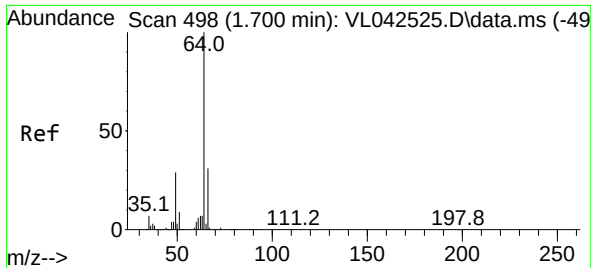
Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025



#6  
 Bromomethane  
 Concen: 2.068 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. 0.003 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

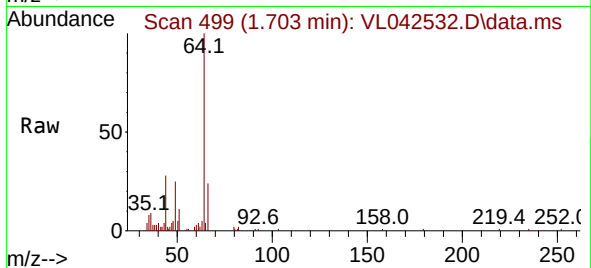
Tgt Ion: 94 Resp: 6881  
 Ion Ratio Lower Upper  
 94 100  
 96 103.4 76.9 115.3





#7  
Chloroethane  
Concen: 2.251 ppbv m  
RT: 1.703 min Scan# 498  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

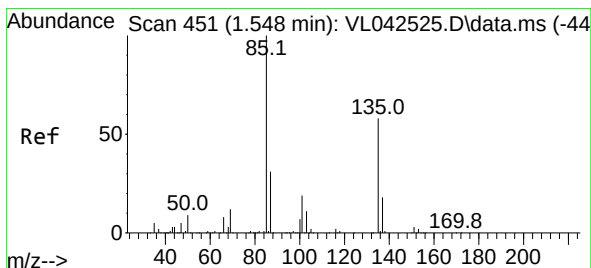
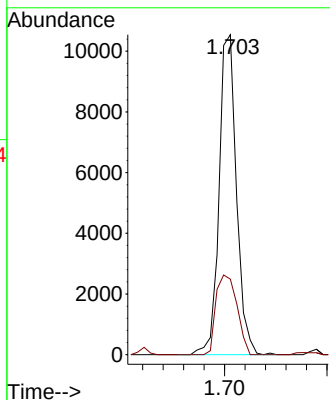
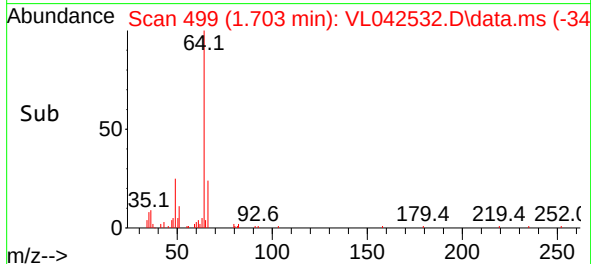
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 64 Resp: 6208  
Ion Ratio Lower Upper  
64 100  
66 23.6 25.1 37.7

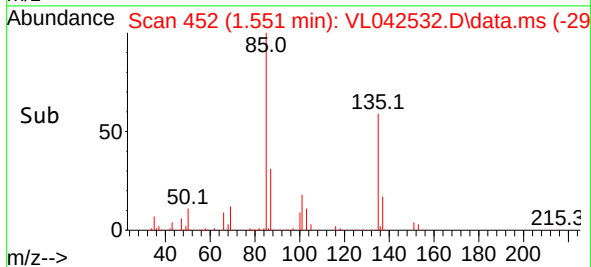
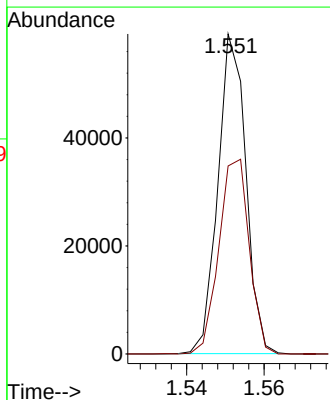
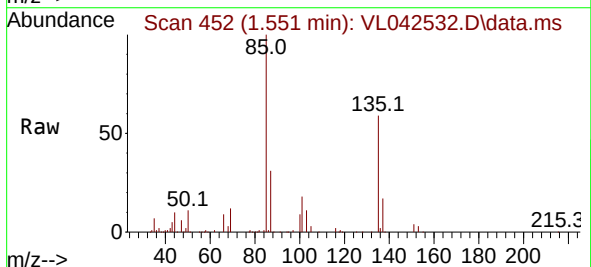
Manual Integrations  
APPROVED

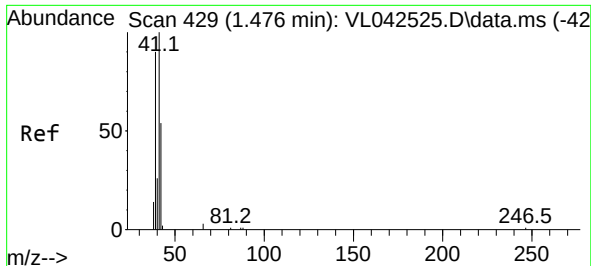
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#8  
Dichlorotetrafluoroethane  
Concen: 2.054 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 29662  
Ion Ratio Lower Upper  
85 100  
135 66.6 51.8 77.8





#9

Propene

Concen: 0.923 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

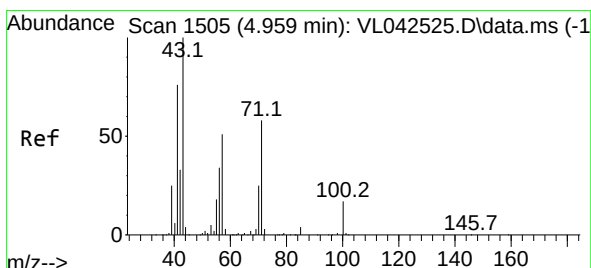
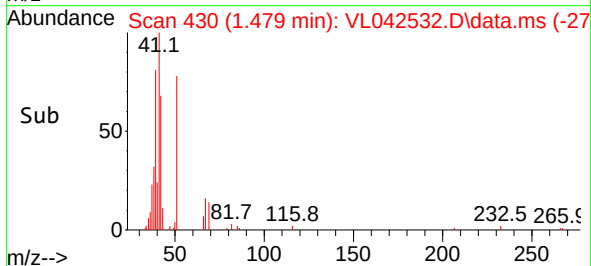
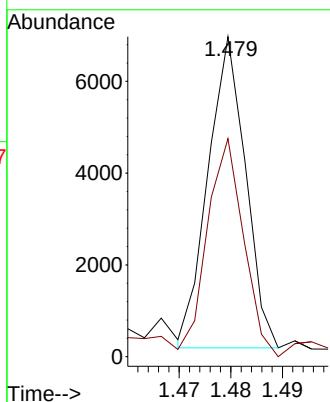
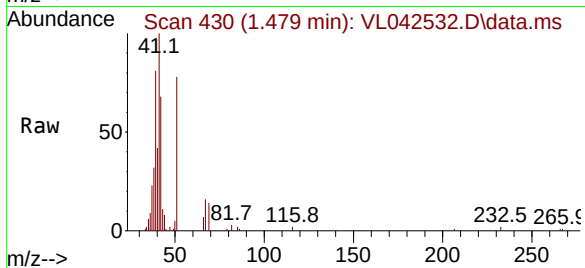
VSTDICC002

Tgt Ion: 41 Resp: 3429  
 Ion Ratio Lower Upper  
 41 100  
 42 86.6 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025



#10

Heptane

Concen: 1.991 ppbv

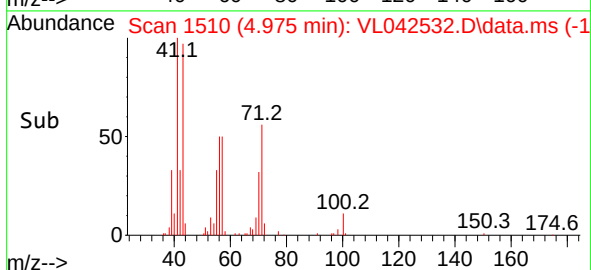
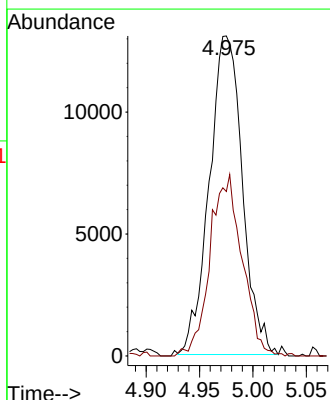
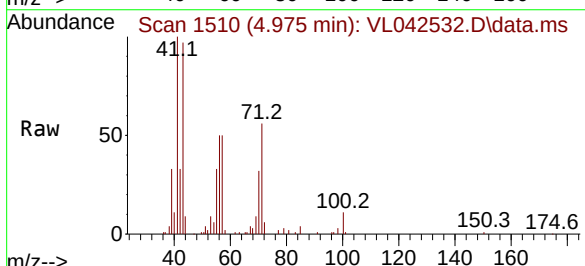
RT: 4.975 min Scan# 1510

Delta R.T. 0.016 min

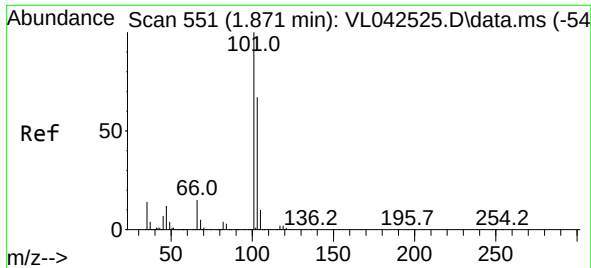
Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion: 43 Resp: 28195  
 Ion Ratio Lower Upper  
 43 100  
 57 55.0 42.1 63.1

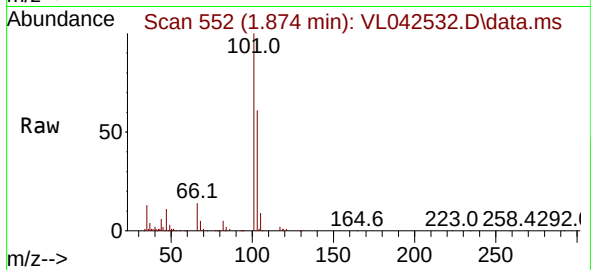






#11  
Trichlorofluoromethane  
Concen: 2.161 ppbv  
RT: 1.874 min Scan# 551  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

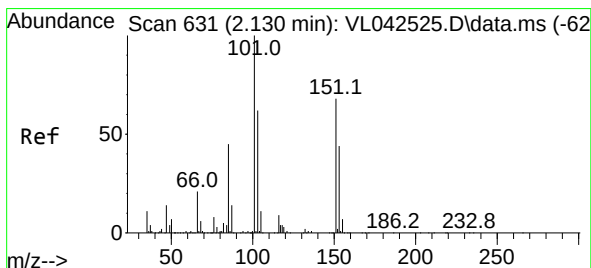
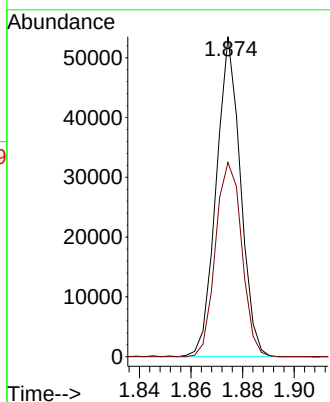
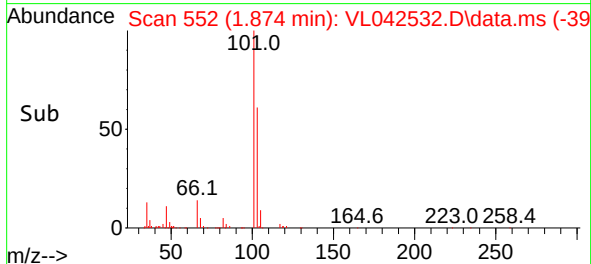
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



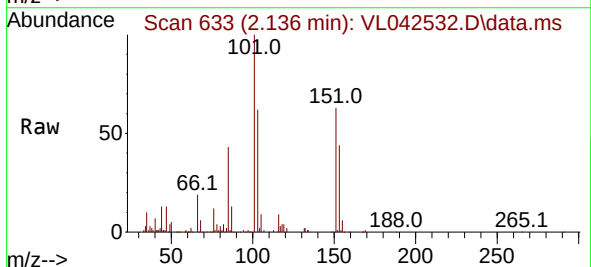
Tgt Ion:101 Resp: 34879  
Ion Ratio Lower Upper  
101 100  
103 60.7 53.8 80.6

Manual Integrations  
APPROVED

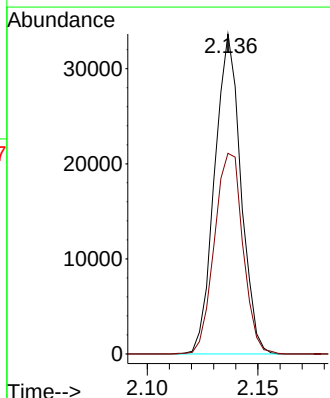
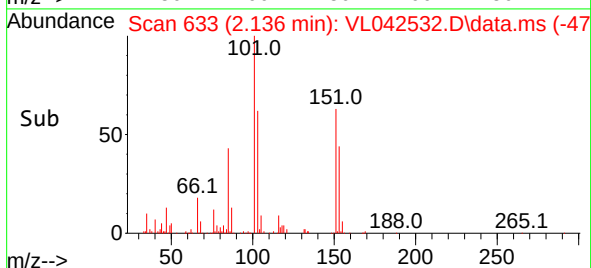
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

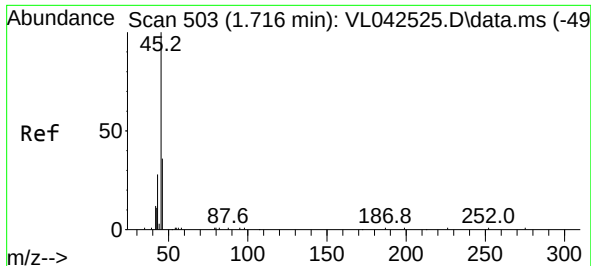


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.141 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



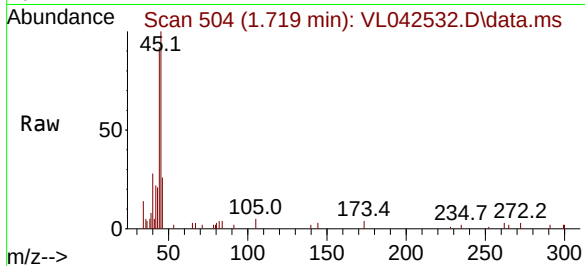
Tgt Ion:101 Resp: 27757  
Ion Ratio Lower Upper  
101 100  
151 68.4 57.8 86.8





#13  
Ethanol  
Concen: 1.956 ppbv  
RT: 1.719 min Scan# 503  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

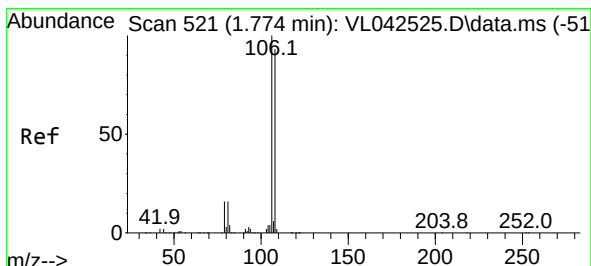
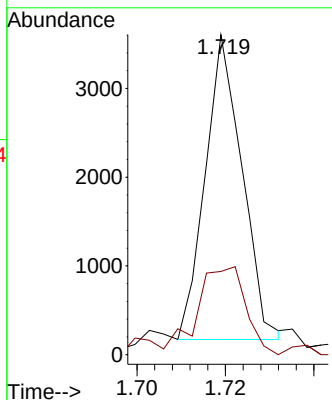
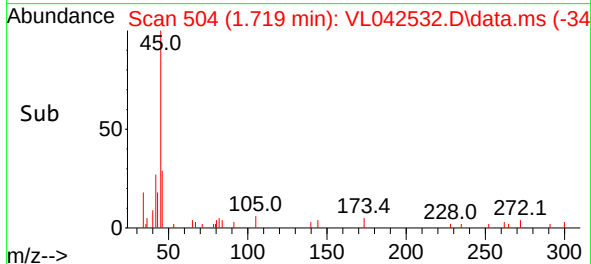
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



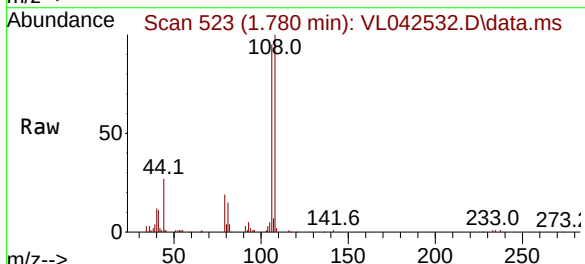
Tgt Ion: 45 Resp: 1983  
Ion Ratio Lower Upper  
45 100  
46 43.7 14.8 59.4

Manual Integrations  
APPROVED

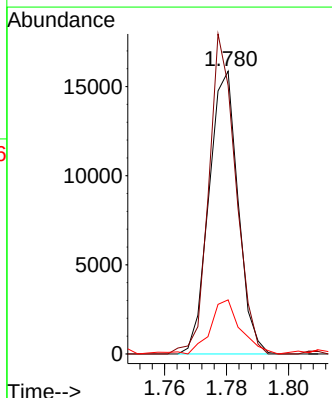
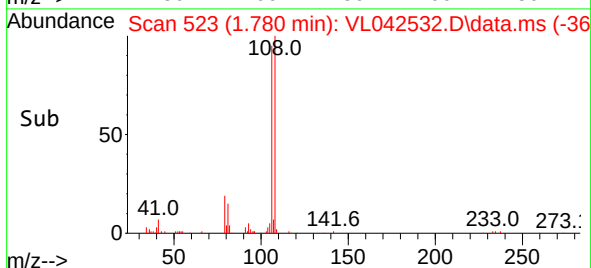
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

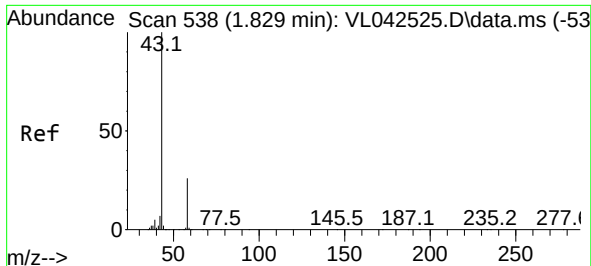


#14  
Bromoethene  
Concen: 2.192 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



Tgt Ion:108 Resp: 10359  
Ion Ratio Lower Upper  
108 100  
106 104.9 87.4 131.2  
79 22.4 15.1 22.7





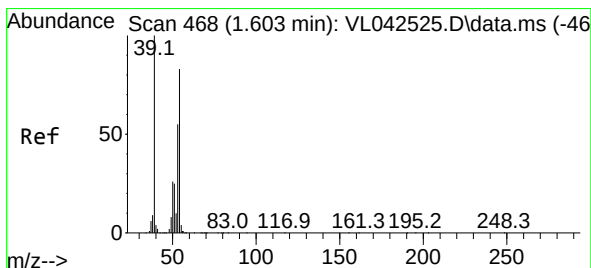
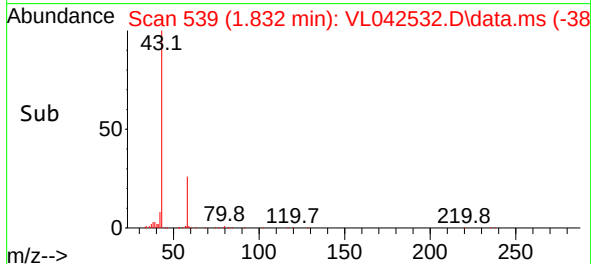
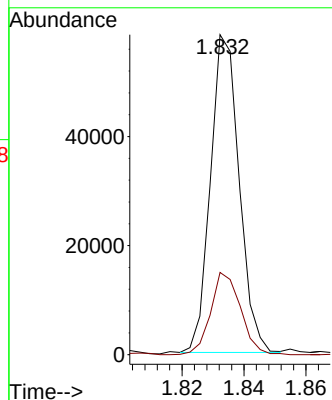
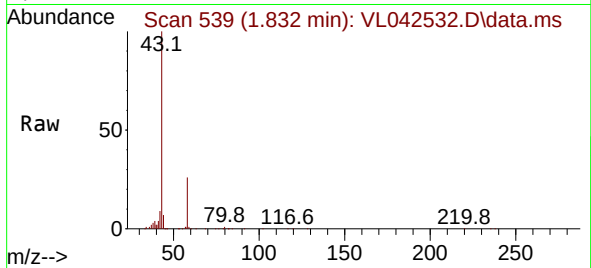
#15  
Acetone  
Concen: 2.269 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 43 Resp: 3746  
Ion Ratio Lower Upper  
43 100  
58 27.4 21.3 31.9

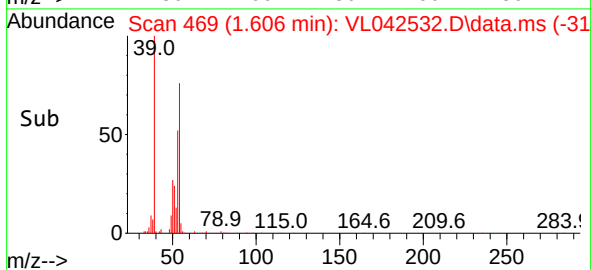
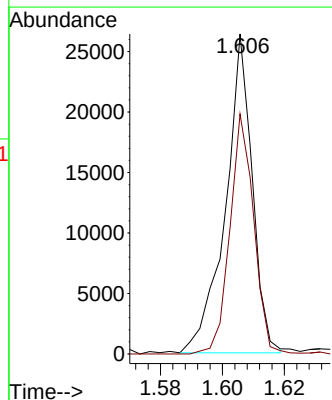
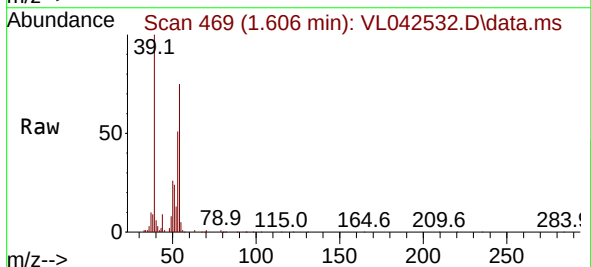
Manual Integrations  
APPROVED

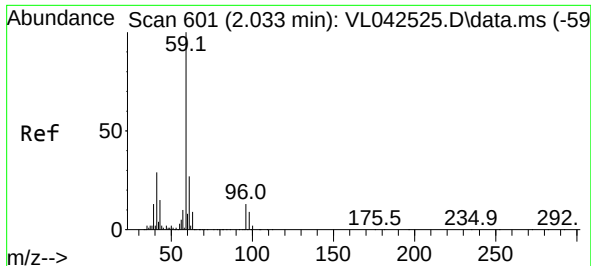
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#16  
1,3-Butadiene  
Concen: 2.132 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion: 39 Resp: 15833  
Ion Ratio Lower Upper  
39 100  
54 67.6 57.8 86.6





#17

tert-Butyl alcohol

Concen: 2.026 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 59 Resp: 3091

Ion Ratio Lower Upper

59 100

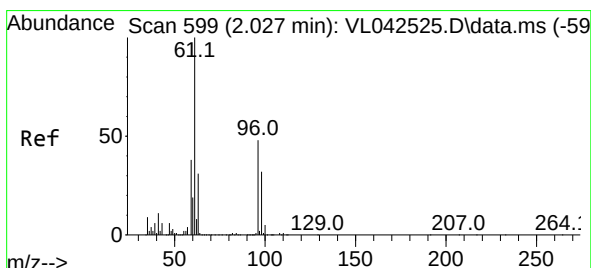
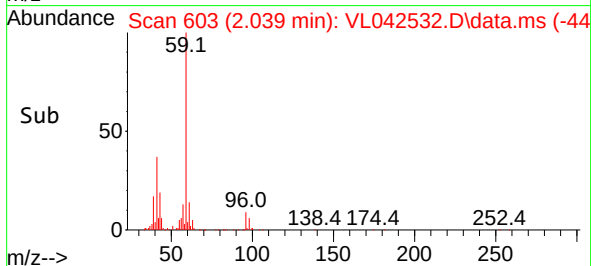
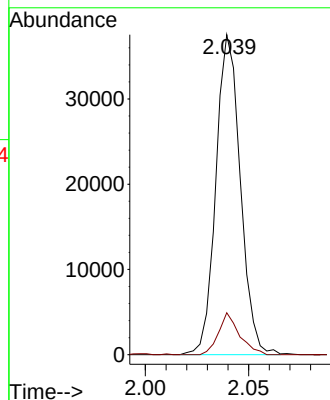
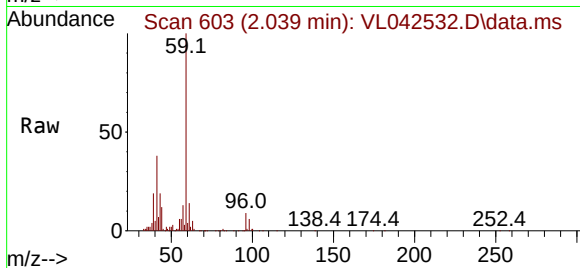
57 11.2 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 2.073 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

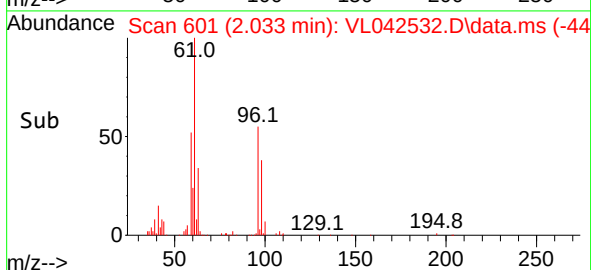
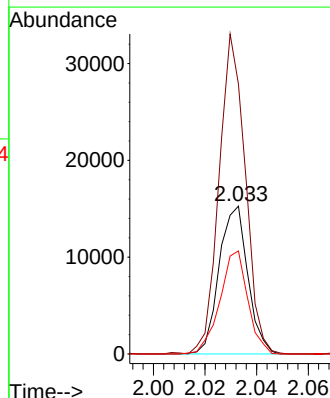
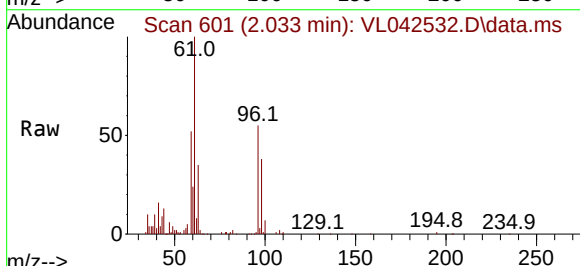
Tgt Ion: 96 Resp: 11781

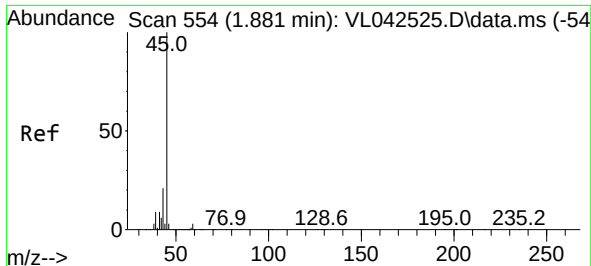
Ion Ratio Lower Upper

96 100

61 182.0 165.0 247.4

98 69.7 52.6 79.0





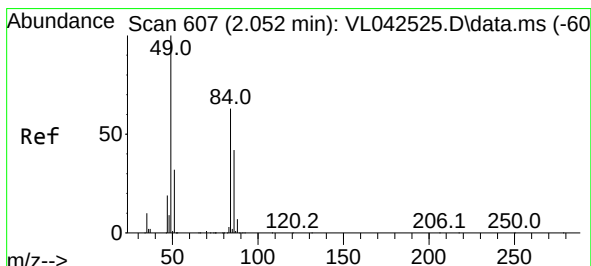
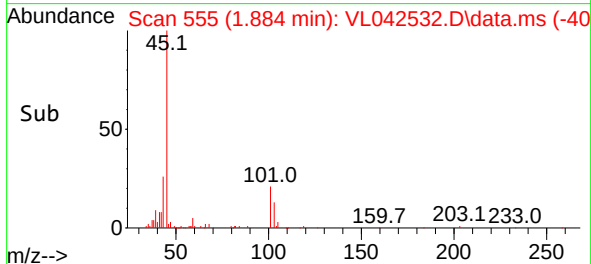
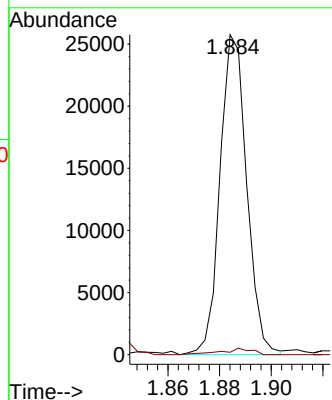
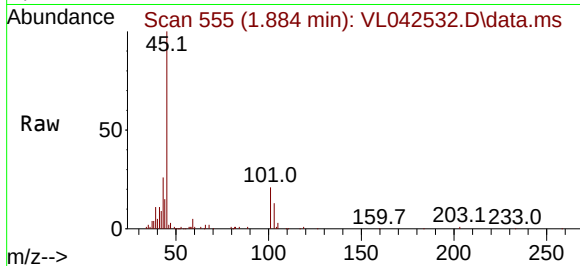
#19  
Isopropyl Alcohol  
Concen: 2.062 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 45 Resp: 1850  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.5 2.3

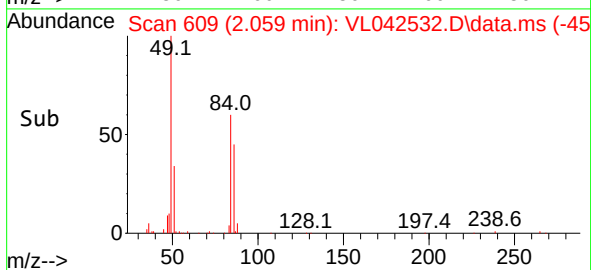
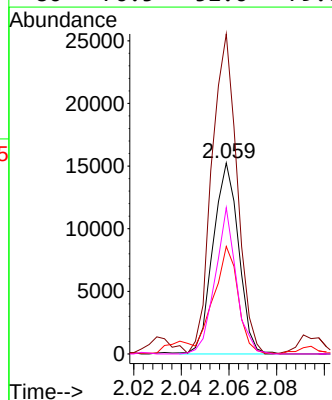
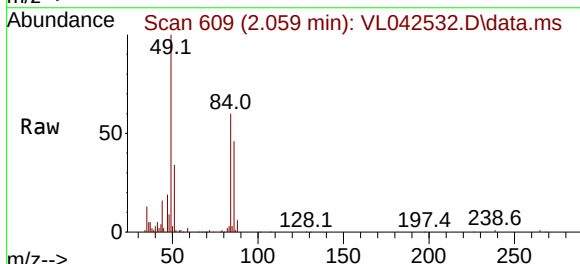
Manual Integrations  
APPROVED

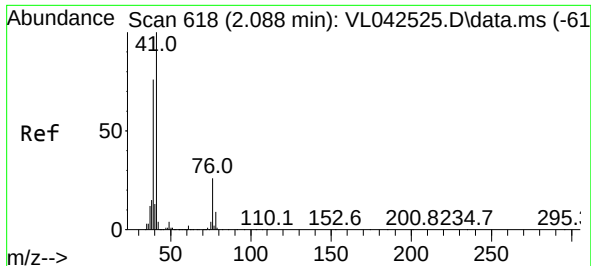
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#20  
Methylene Chloride  
Concen: 1.975 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

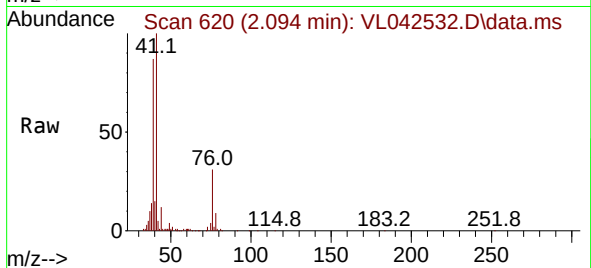
Tgt Ion: 84 Resp: 11357  
Ion Ratio Lower Upper  
84 100  
49 167.0 128.2 192.4  
51 56.3 41.7 62.5  
86 76.5 52.6 79.0





#21  
 Allyl Chloride  
 Concen: 2.064 ppbv  
 RT: 2.094 min Scan# 618  
 Delta R.T. 0.006 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

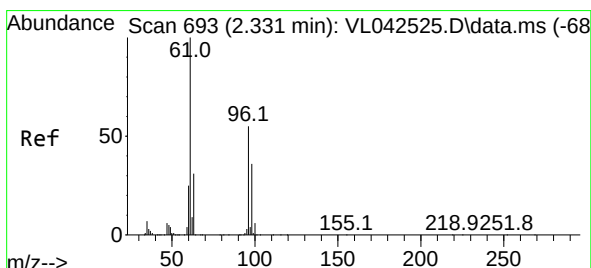
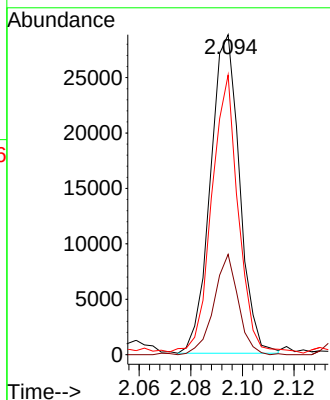
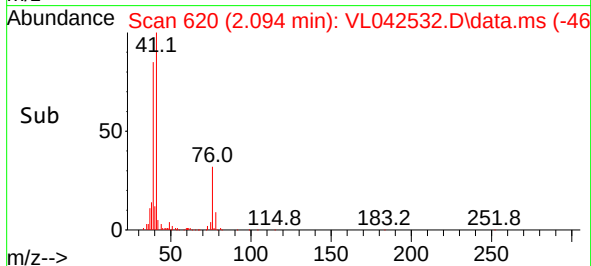
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



Tgt Ion: 41 Resp: 2256  
 Ion Ratio Lower Upper  
 41 100  
 76 26.5 22.0 33.0  
 39 78.9 59.5 89.3

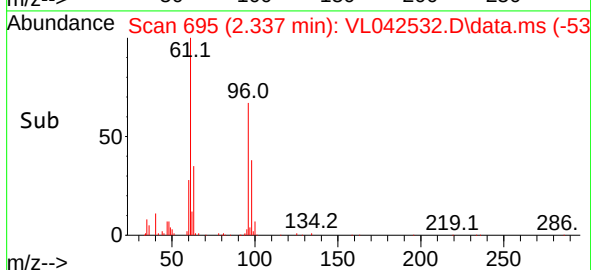
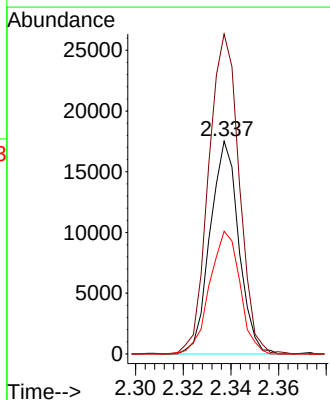
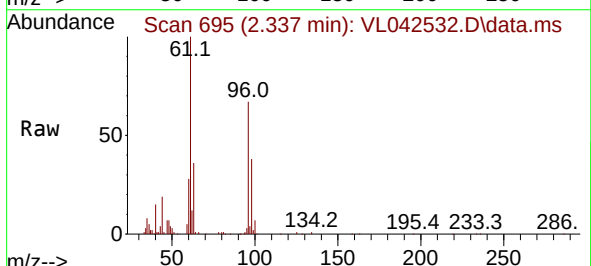
Manual Integrations  
 APPROVED

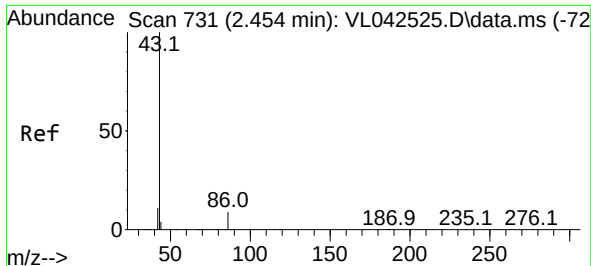
Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 2.193 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. 0.006 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

Tgt Ion: 96 Resp: 14573  
 Ion Ratio Lower Upper  
 96 100  
 61 149.6 145.9 218.9  
 98 57.7 52.2 78.4





#23  
 Vinyl Acetate  
 Concen: 1.985 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. 0.006 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

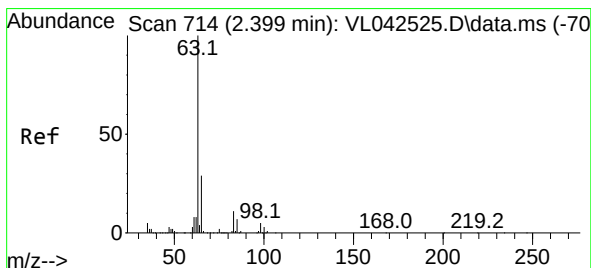
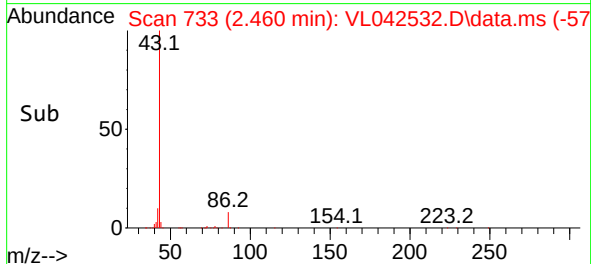
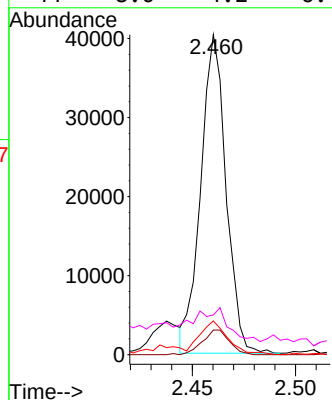
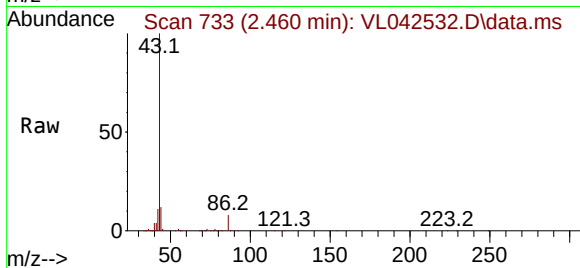
VSTDIC002

Tgt Ion: 43 Resp: 34320  
 Ion Ratio Lower Upper  
 43 100  
 86 7.7 6.8 10.2  
 42 10.6 8.8 13.2  
 44 8.0 4.2 6.4#

Manual Integrations

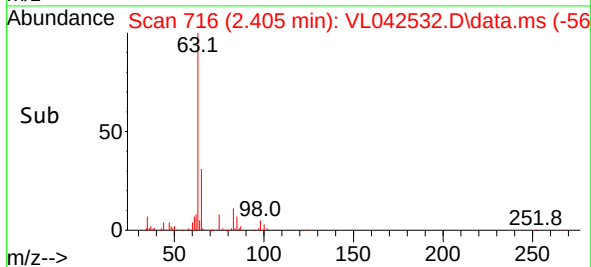
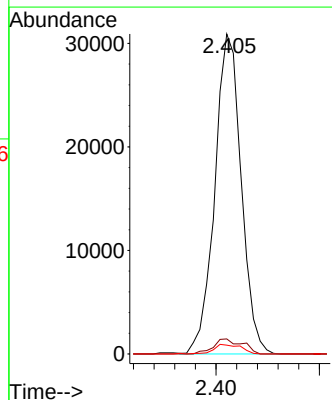
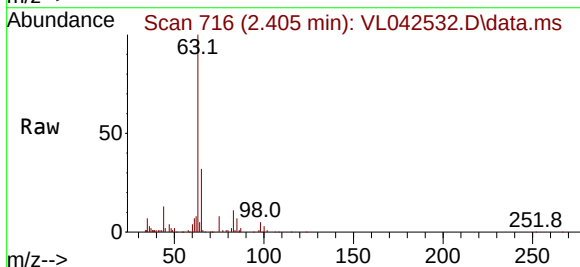
APPROVED

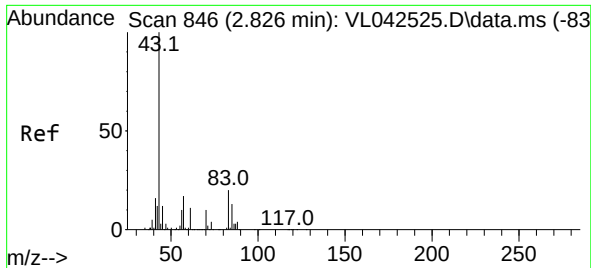
Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025



#24  
 1,1-Dichloroethane  
 Concen: 2.132 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. 0.006 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

Tgt Ion: 63 Resp: 27421  
 Ion Ratio Lower Upper  
 63 100  
 98 4.7 2.6 8.0  
 100 2.8 1.4 4.2





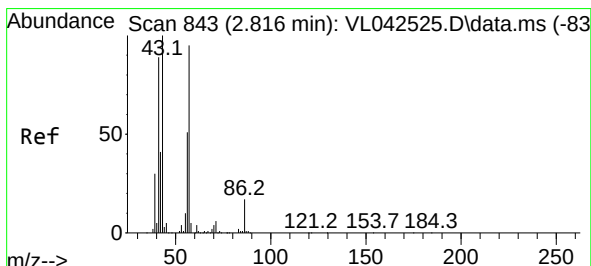
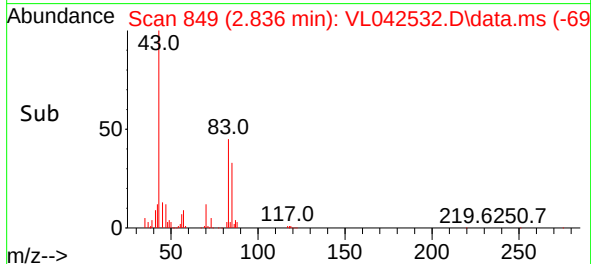
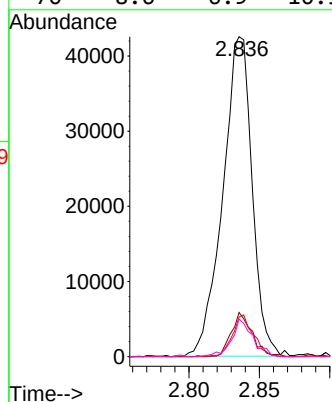
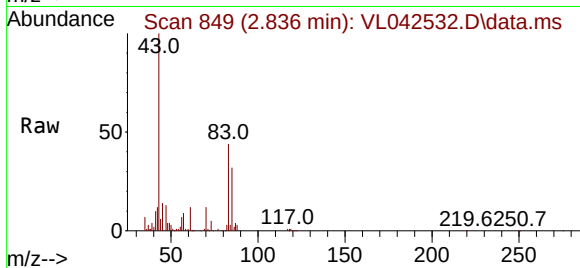
#25  
Ethyl Acetate  
Concen: 2.124 ppbv  
RT: 2.836 min Scan# 846  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 6159  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 10.0     | 7.9 11.9    |
| 61 9.3      | 7.1 10.7    |
| 70 8.6      | 6.9 10.3    |

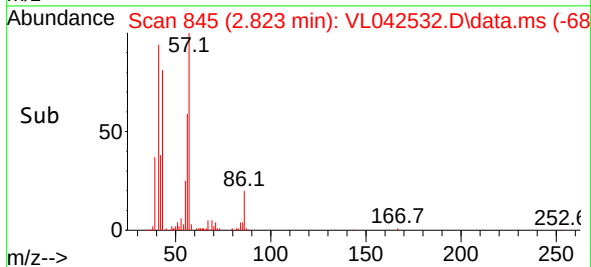
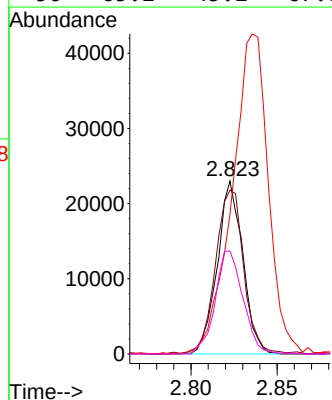
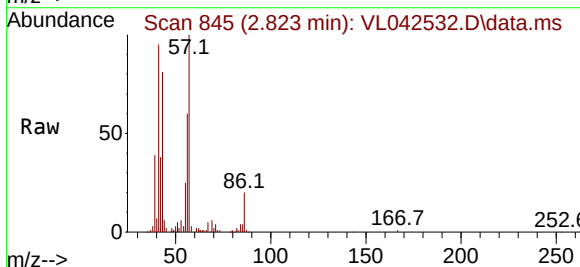
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

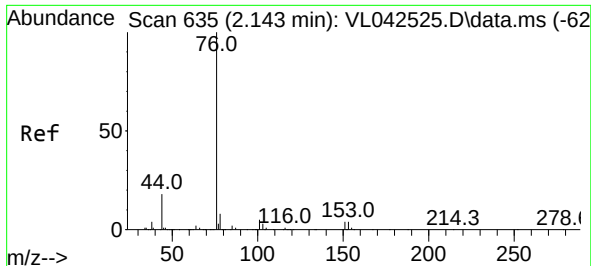


#26  
Hexane  
Concen: 1.992 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

|             |             |       |       |
|-------------|-------------|-------|-------|
| Tgt Ion: 57 | Resp: 23715 |       |       |
| Ion         | Ratio       | Lower | Upper |
| 57          | 100         |       |       |
| 41          | 106.9       | 76.1  | 114.1 |
| 43          | 262.3       | 188.9 | 283.3 |
| 56          | 65.2        | 45.2  | 67.8  |

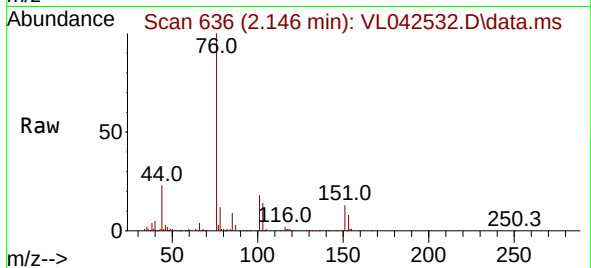






#27  
Carbon Disulfide  
Concen: 2.065 ppbv  
RT: 2.146 min Scan# 611  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

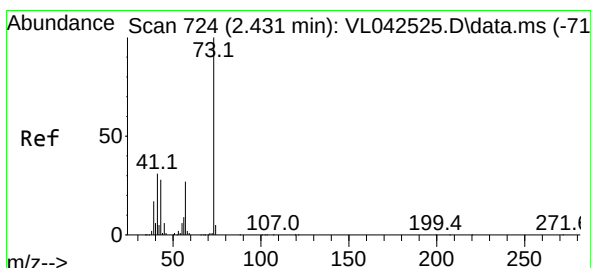
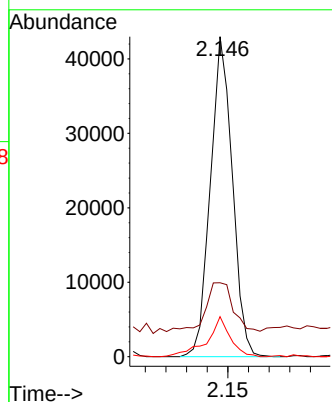
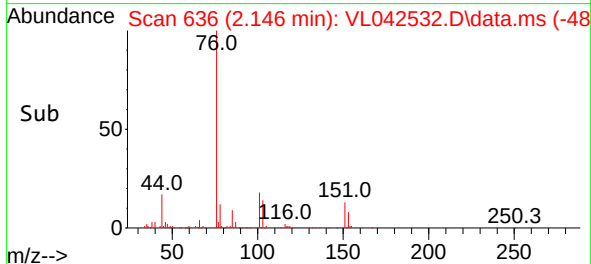
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



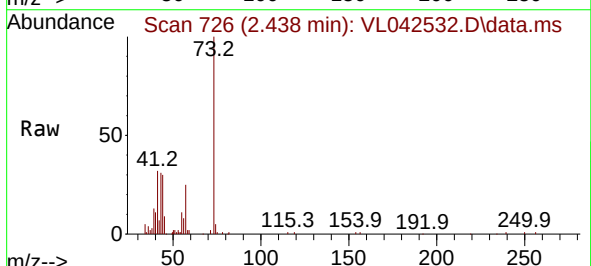
Tgt Ion: 76 Resp: 31738  
Ion Ratio Lower Upper  
76 100  
44 23.9 17.1 25.7  
78 13.7 8.6 12.8

Manual Integrations  
APPROVED

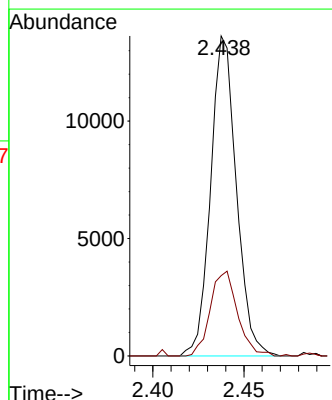
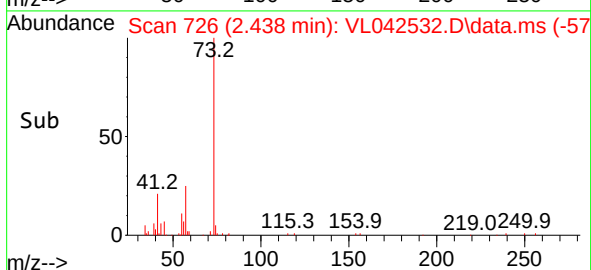
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

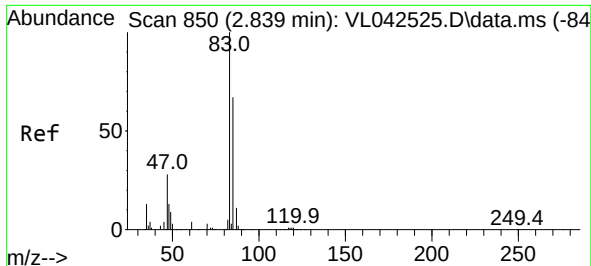


#28  
Methyl tert-Butyl Ether  
Concen: 2.030 ppbv  
RT: 2.438 min Scan# 726  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



Tgt Ion: 73 Resp: 13425  
Ion Ratio Lower Upper  
73 100  
57 28.4 20.3 30.5





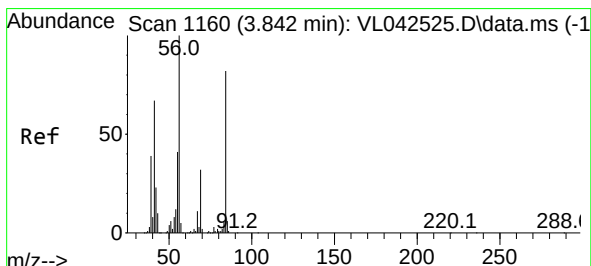
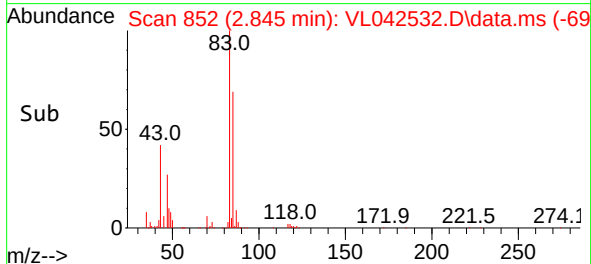
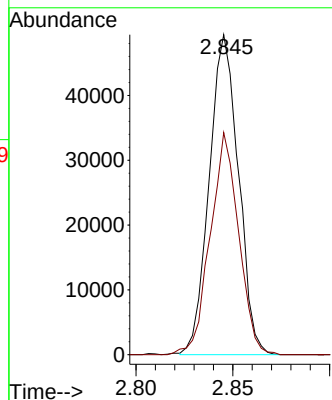
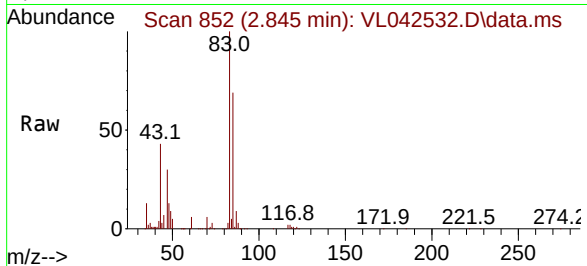
#29  
Chloroform  
Concen: 2.098 ppbv  
RT: 2.845 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 83 Resp: 51800  
Ion Ratio Lower Upper  
83 100  
85 69.4 53.5 80.3

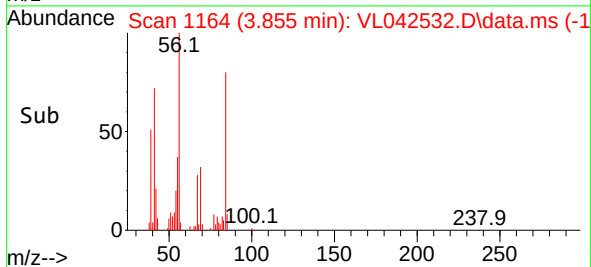
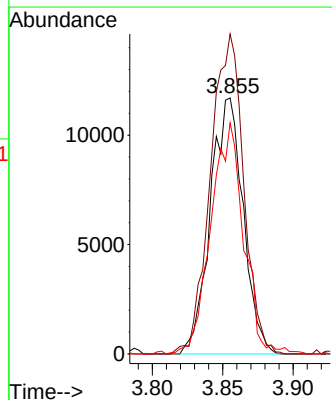
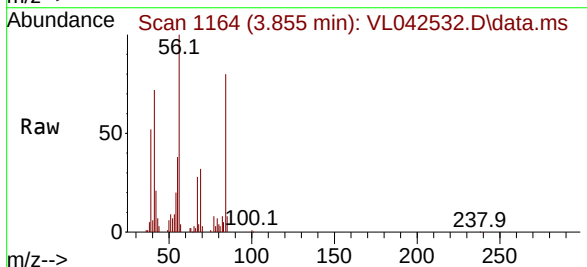
Manual Integrations  
APPROVED

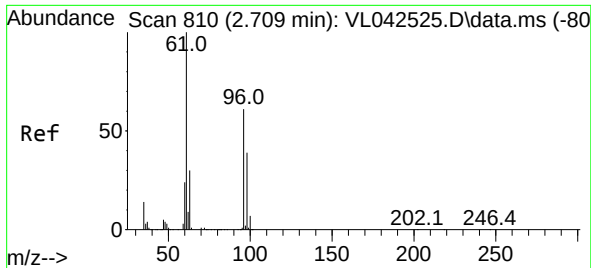
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#30  
Cyclohexane  
Concen: 1.936 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. 0.013 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

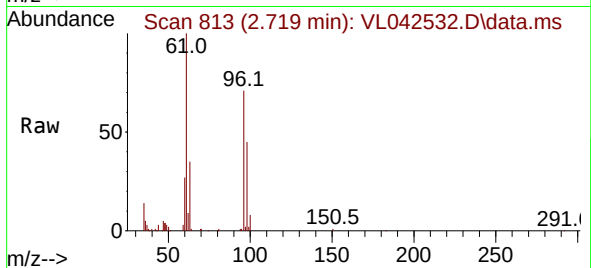
Tgt Ion: 84 Resp: 18925  
Ion Ratio Lower Upper  
84 100  
56 126.4 97.1 145.7  
41 90.7 66.6 99.8





#31  
 cis-1,2-Dichloroethene  
 Concen: 1.955 ppbv  
 RT: 2.719 min Scan# 810  
 Delta R.T. 0.010 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

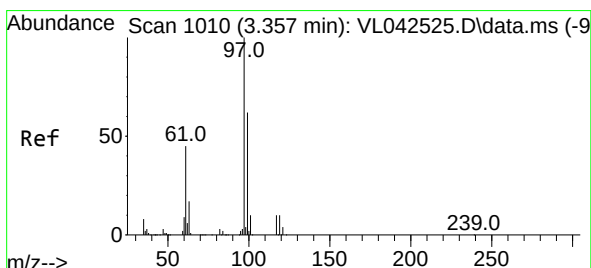
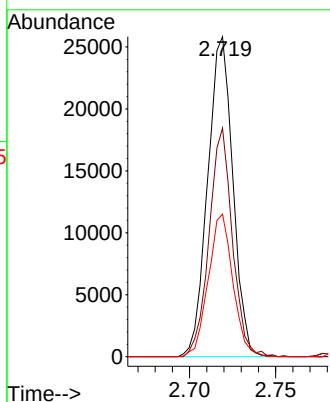
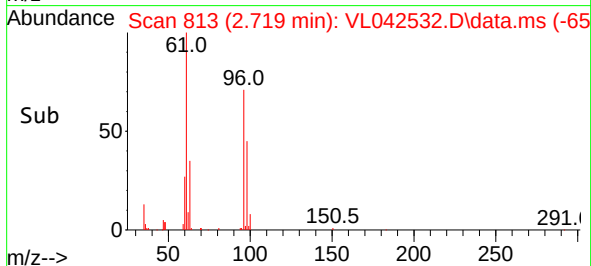
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



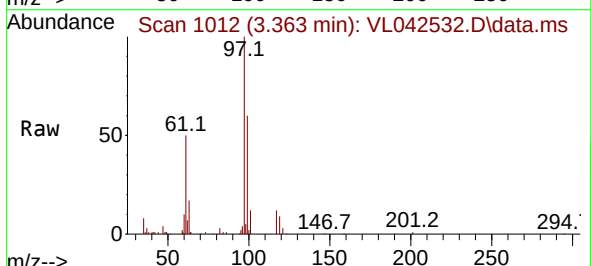
Tgt Ion: 61 Resp: 2627  
 Ion Ratio Lower Upper  
 61 100  
 96 71.4 48.9 73.3  
 98 44.5 31.4 47.2

Manual Integrations  
 APPROVED

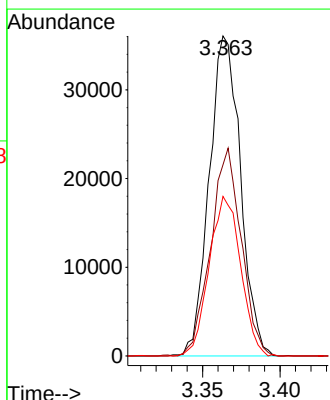
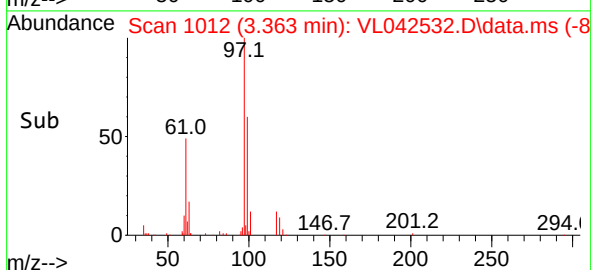
Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025

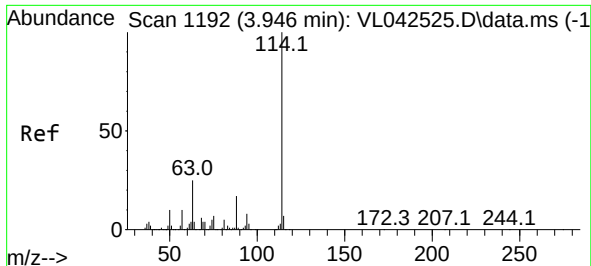


#32  
 1,1,1-Trichloroethane  
 Concen: 2.033 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. 0.006 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58



Tgt Ion: 97 Resp: 50640  
 Ion Ratio Lower Upper  
 97 100  
 99 63.6 50.1 75.1  
 61 50.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

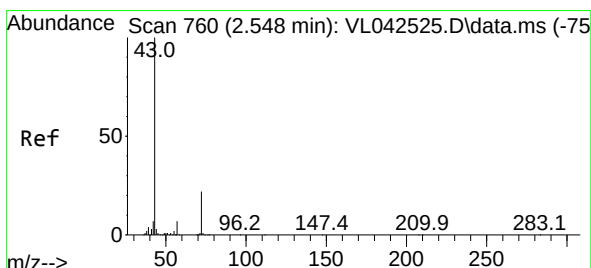
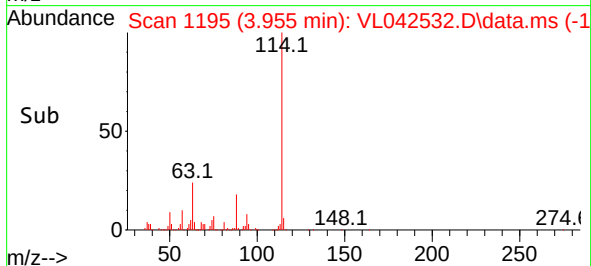
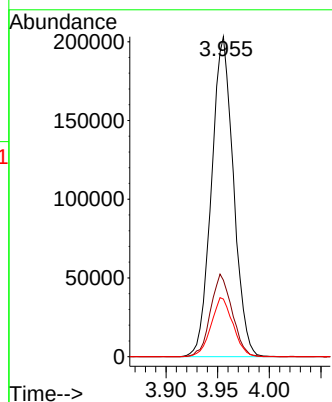
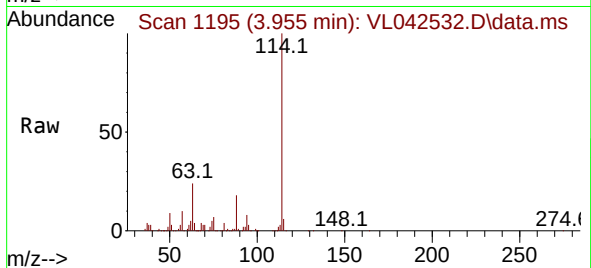
VSTDICC002

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:114 | Resp: | 300628    |
| Ion Ratio   | Lower | Upper     |
| 114         | 100   |           |
| 63          | 25.4  | 20.4 30.6 |
| 88          | 18.4  | 14.5 21.7 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 2.011 ppbv

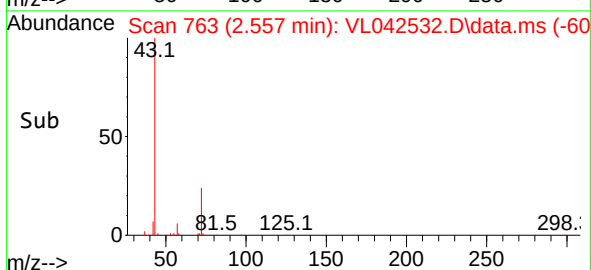
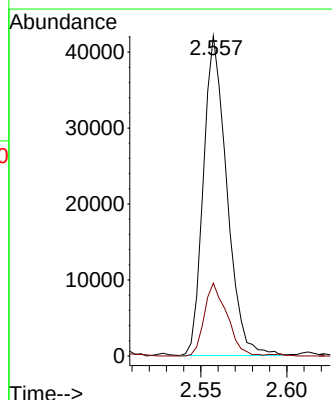
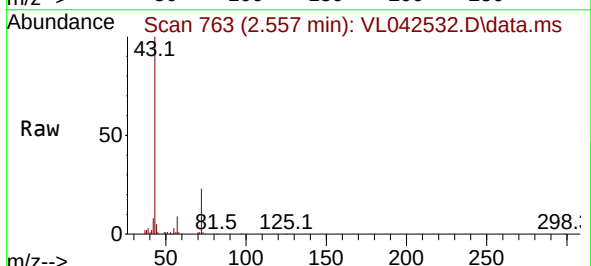
RT: 2.557 min Scan# 763

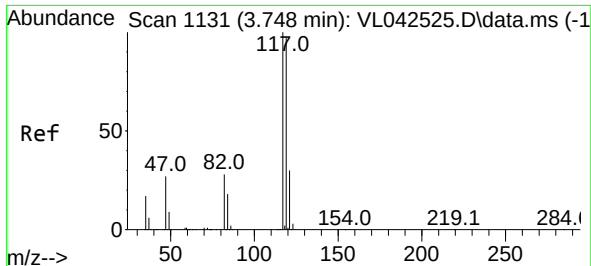
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

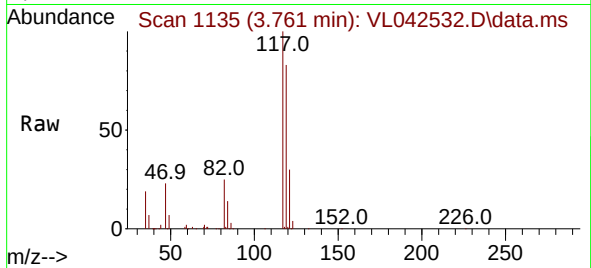
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 43 | Resp: | 39851     |
| Ion Ratio   | Lower | Upper     |
| 43          | 100   |           |
| 72          | 22.5  | 18.7 28.1 |





#35  
Carbon Tetrachloride  
Concen: 2.030 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. 0.013 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

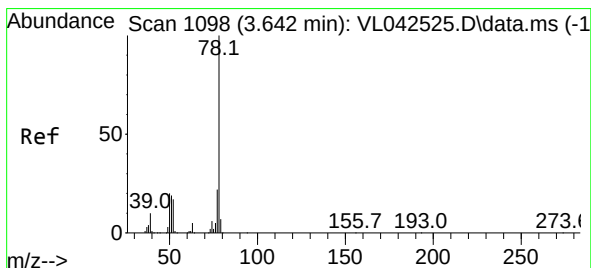
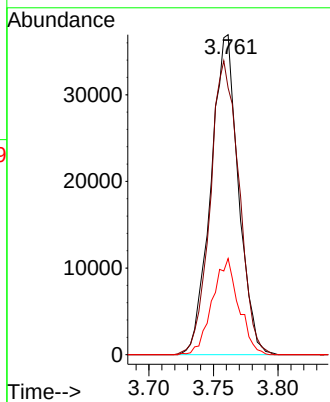
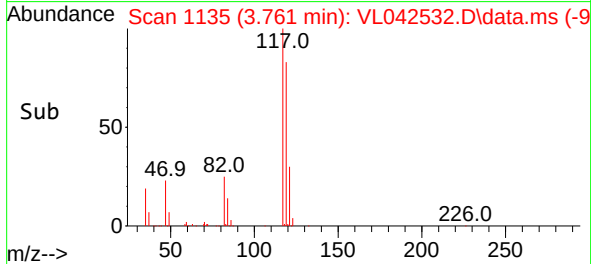
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



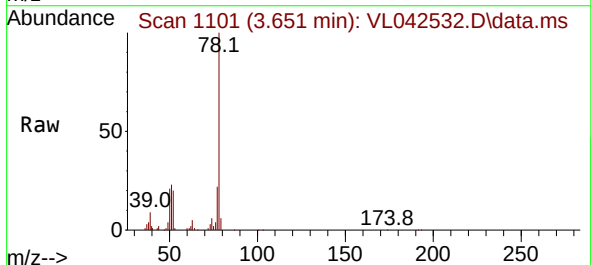
Tgt Ion:117 Resp: 5487  
Ion Ratio Lower Upper  
117 100  
119 83.4 77.7 116.5  
121 30.1 24.0 36.0

Manual Integrations  
APPROVED

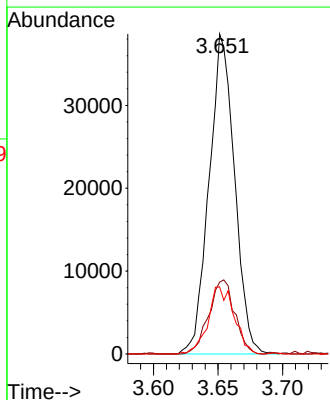
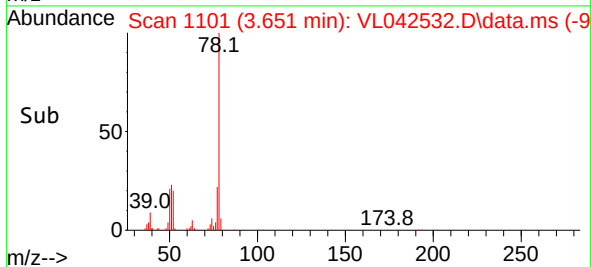
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

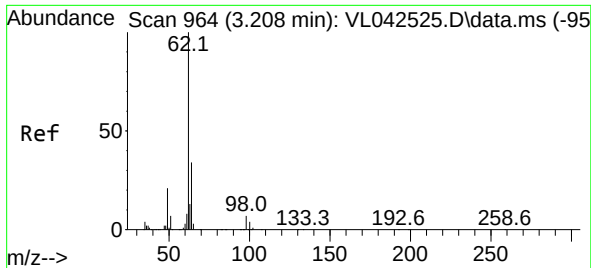


#36  
Benzene  
Concen: 1.987 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



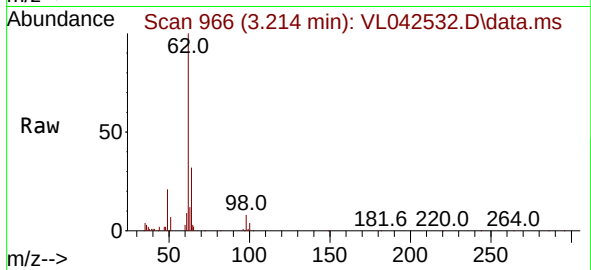
Tgt Ion: 78 Resp: 52942  
Ion Ratio Lower Upper  
78 100  
77 22.5 17.4 26.2  
50 21.0 16.3 24.5





#37  
1,2-Dichloroethane  
Concen: 2.103 ppbv  
RT: 3.214 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

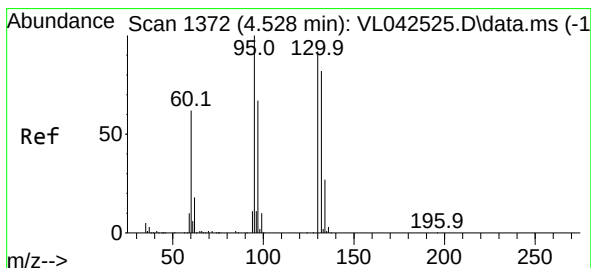
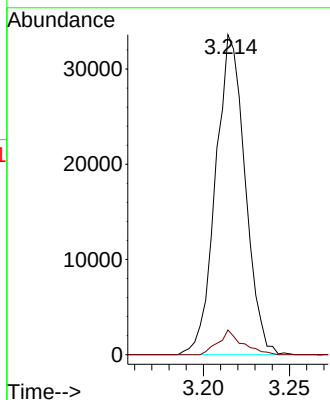
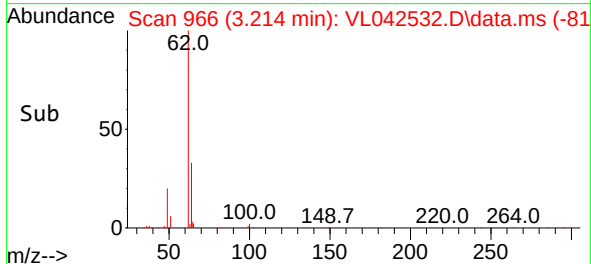
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 62 Resp: 39974  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.0 7.4

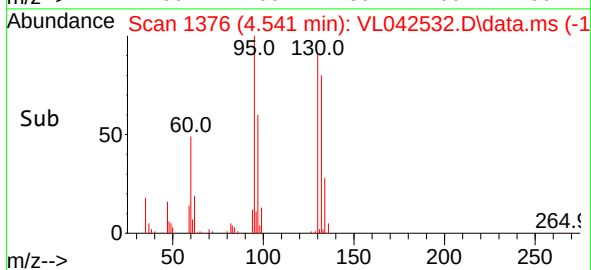
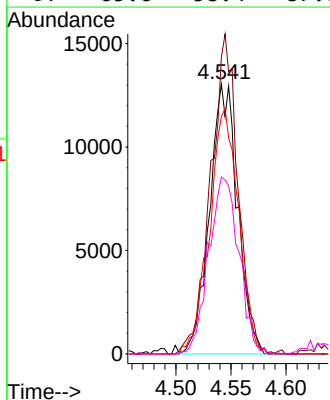
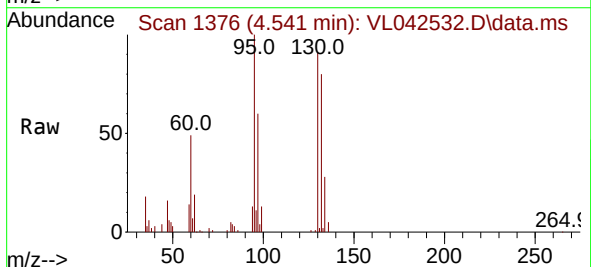
Manual Integrations  
APPROVED

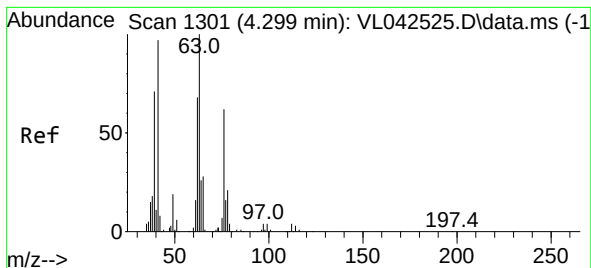
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#38  
Trichloroethene  
Concen: 2.027 ppbv m  
RT: 4.541 min Scan# 1376  
Delta R.T. 0.013 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion:130 Resp: 23078  
Ion Ratio Lower Upper  
130 100  
95 110.0 87.0 130.4  
132 88.0 71.1 106.7  
97 65.6 58.4 87.6





#39

1,2-Dichloropropane

Concen: 1.920 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

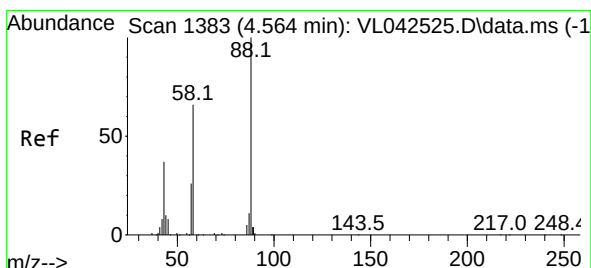
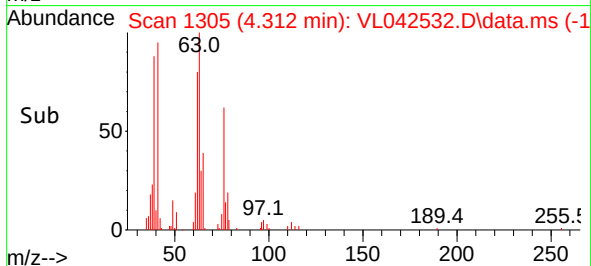
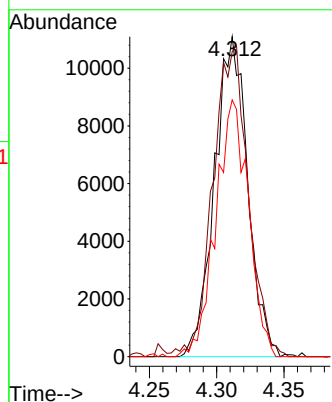
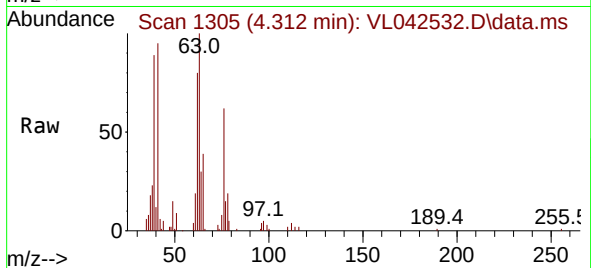
VSTDICC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 1903  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 93.7  | 77.5  | 116.3 |
| 62       | 80.2  | 54.6  | 82.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 1.883 ppbv m

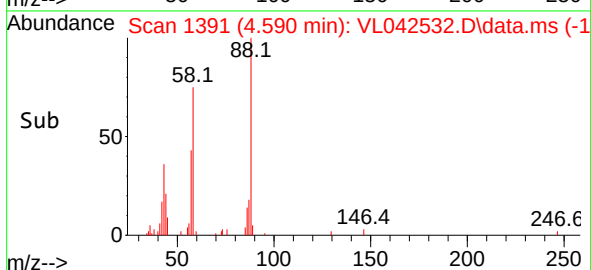
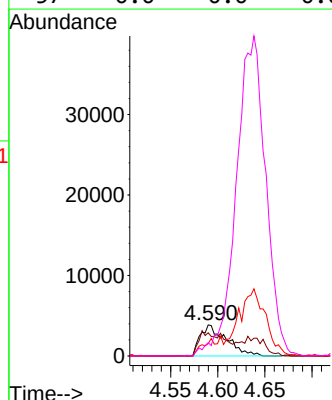
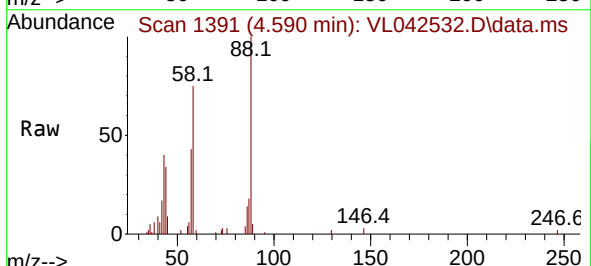
RT: 4.590 min Scan# 1391

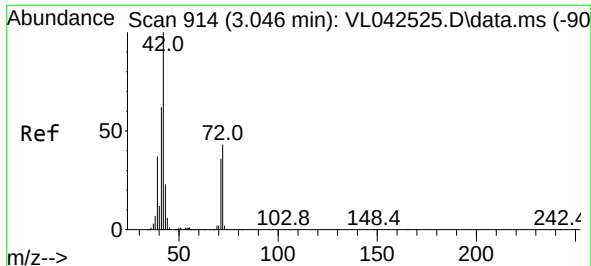
Delta R.T. 0.026 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 7446  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 92.2  | 58.2  | 87.2# |
| 43       | 0.0   | 27.9  | 41.9# |
| 57       | 0.0   | 0.0   | 0.0   |





#41

Tetrahydrofuran

Concen: 2.008 ppbv m

RT: 3.059 min Scan# 914

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

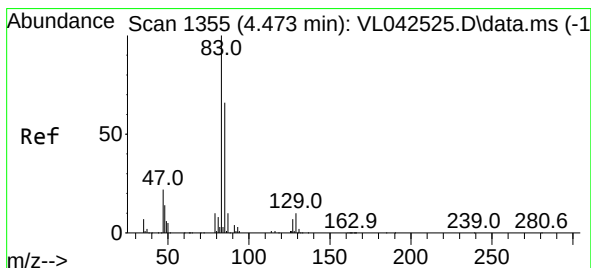
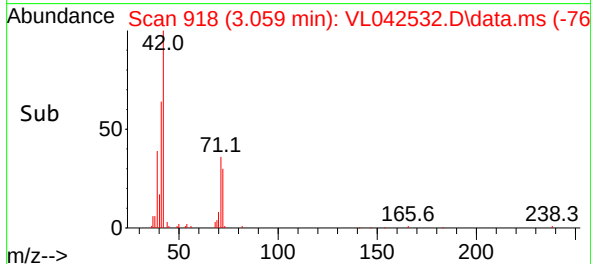
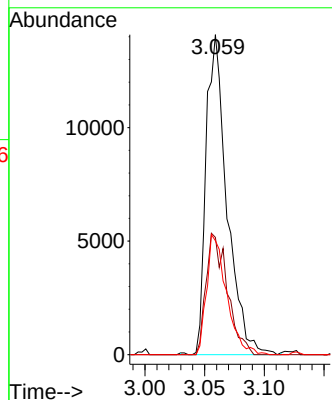
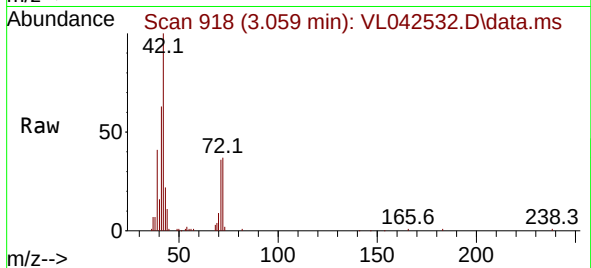
VSTDICC002

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 42    | Resp: | 1716 |
| Ion Ratio | Lower | Upper |      |
| 42        | 100   |       |      |
| 72        | 38.8  | 32.7  | 49.1 |
| 71        | 35.8  | 30.4  | 45.6 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#42

Bromodichloromethane

Concen: 2.072 ppbv

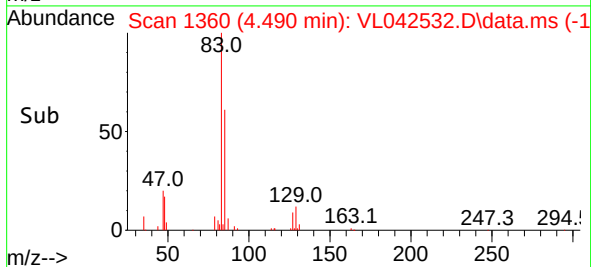
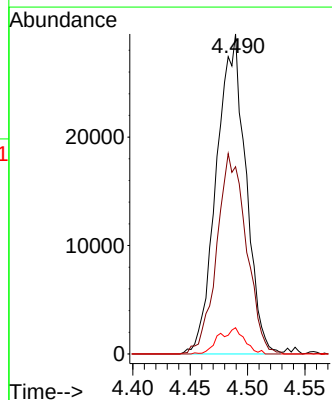
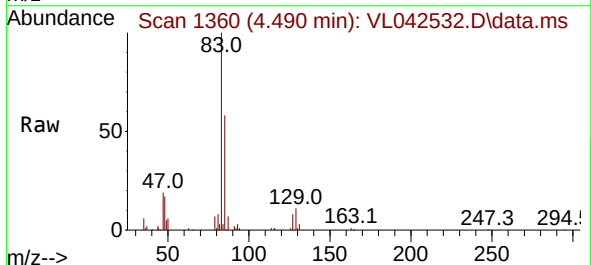
RT: 4.490 min Scan# 1360

Delta R.T. 0.016 min

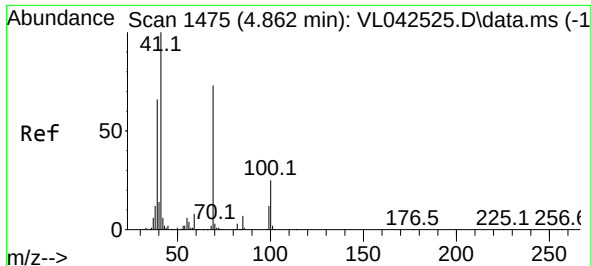
Lab File: VL042532.D

Acq: 12 May 2025 12:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 52451 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 58.5  | 52.6  | 79.0  |
| 127       | 8.2   | 6.0   | 9.0   |







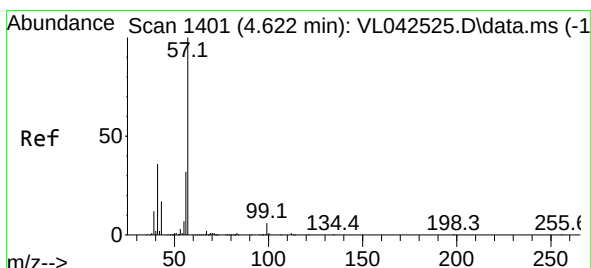
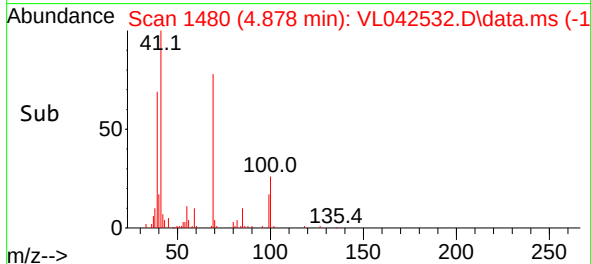
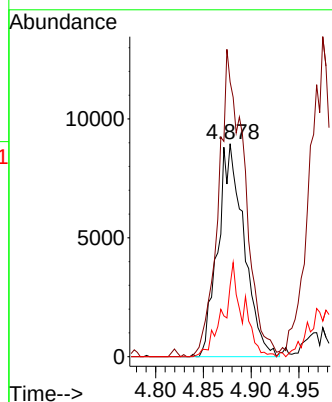
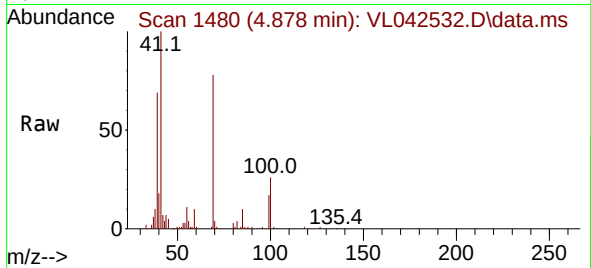
#43  
Methyl Methacrylate  
Concen: 1.916 ppbv m  
RT: 4.878 min Scan# 1475  
Delta R.T. 0.016 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

Tgt Ion: 69 Resp: 17050  
Ion Ratio Lower Upper  
69 100  
41 0.0 119.9 179.9  
100 0.0 28.4 42.6

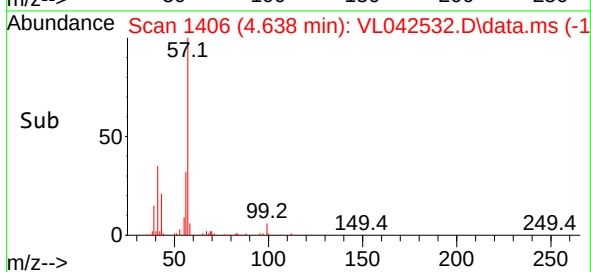
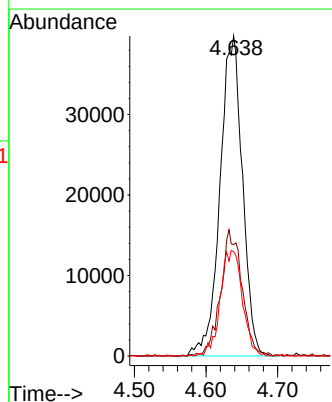
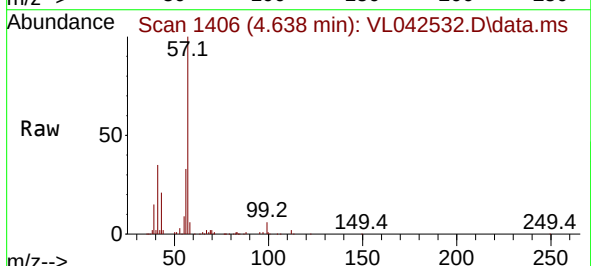
Manual Integrations  
APPROVED

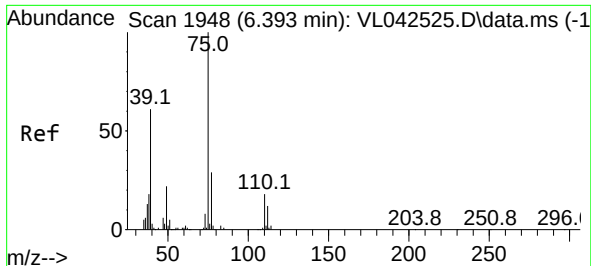
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#44  
2,2,4-Trimethylpentane  
Concen: 2.068 ppbv m  
RT: 4.638 min Scan# 1406  
Delta R.T. 0.016 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

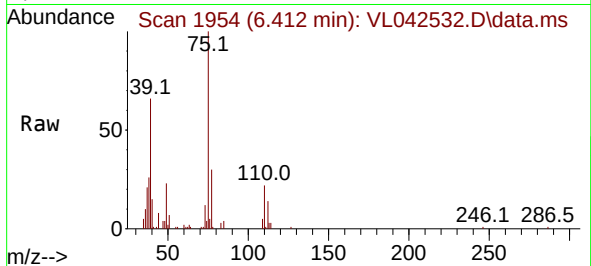
Tgt Ion: 57 Resp: 86512  
Ion Ratio Lower Upper  
57 100  
41 38.0 28.3 42.5  
56 0.0 25.9 38.9





#45  
 t-1,3-Dichloropropene  
 Concen: 1.790 ppbv m  
 RT: 6.412 min Scan# 1948  
 Delta R.T. 0.019 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

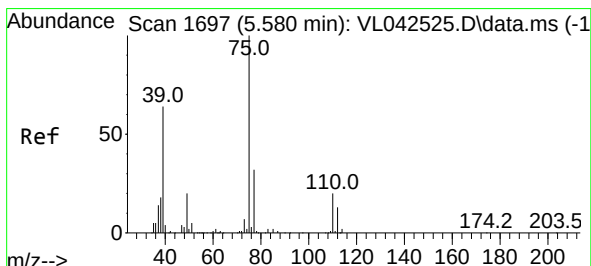
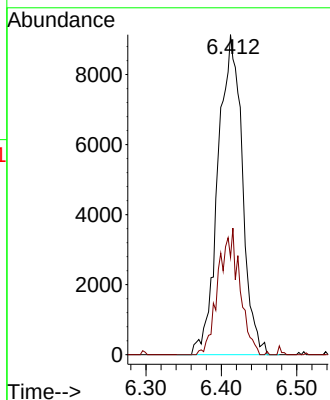
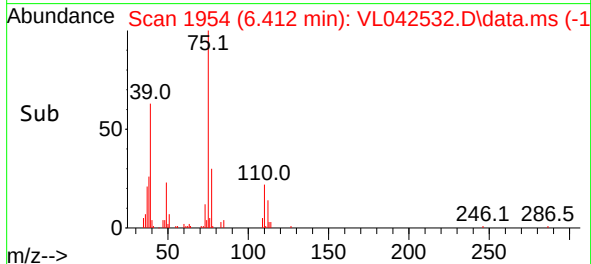
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



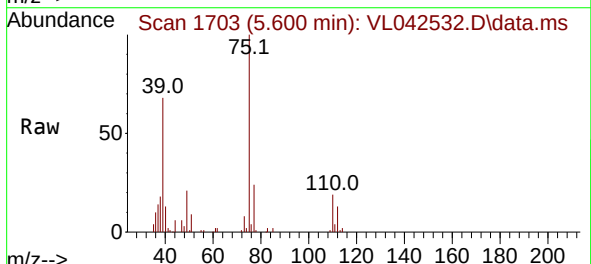
Tgt Ion: 75 Resp: 20334  
 Ion Ratio Lower Upper  
 75 100  
 77 30.4 23.3 34.9

Manual Integrations  
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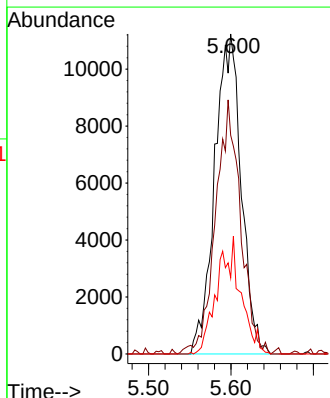
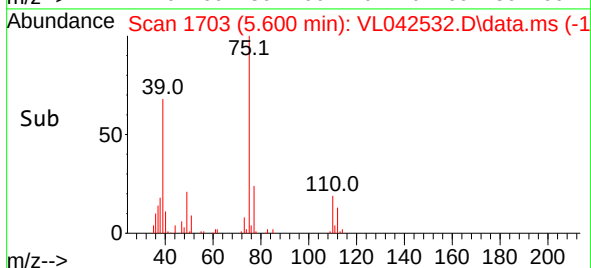
Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025

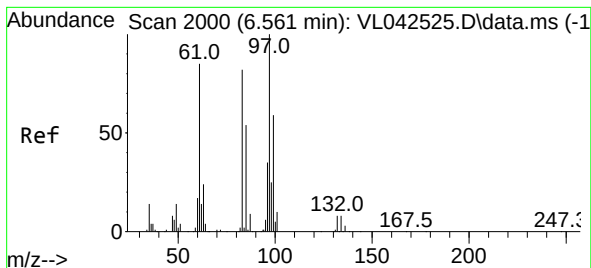


#46  
 cis-1,3-Dichloropropene  
 Concen: 1.831 ppbv m  
 RT: 5.600 min Scan# 1703  
 Delta R.T. 0.019 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58



Tgt Ion: 75 Resp: 25085  
 Ion Ratio Lower Upper  
 75 100  
 39 68.3 51.2 76.8  
 77 23.8 25.4 38.0#





#47

1,1,2-Trichloroethane

Concen: 2.019 ppbv m

RT: 6.584 min Scan# 2000

Delta R.T. 0.023 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

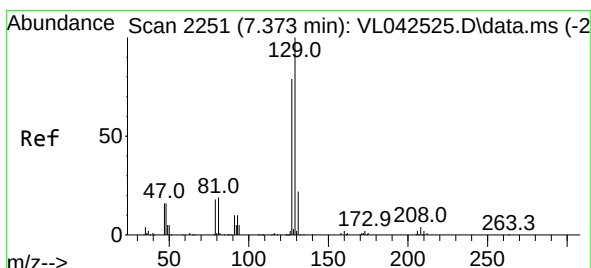
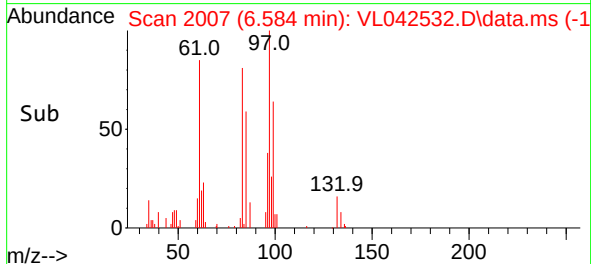
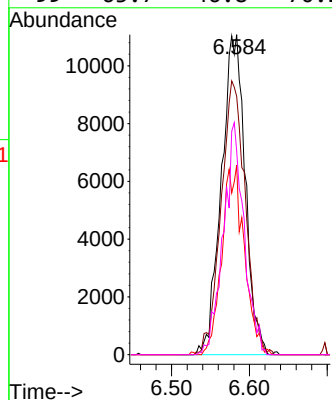
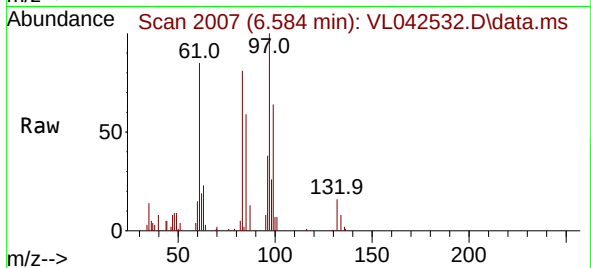
VSTDIC002

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 23580 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 80.7     | 66.0 99.0   |
| 85 59.2     | 42.8 64.2   |
| 99 63.7     | 46.8 70.2   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#48

Dibromochloromethane

Concen: 2.058 ppbv

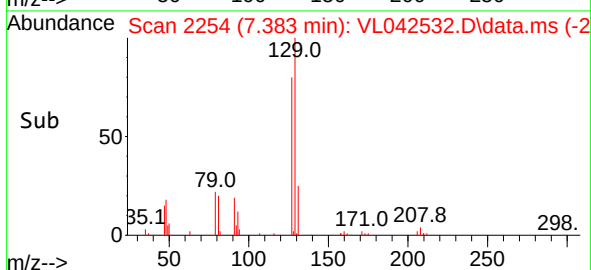
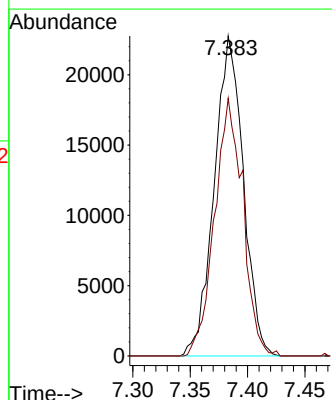
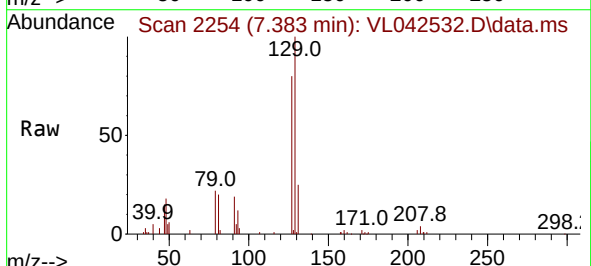
RT: 7.383 min Scan# 2254

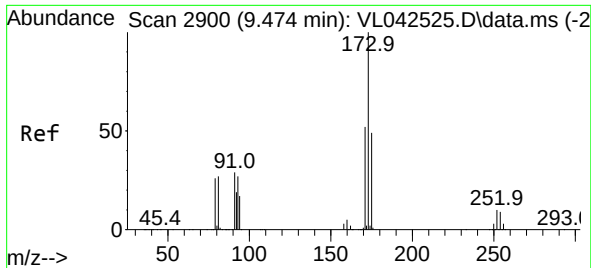
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

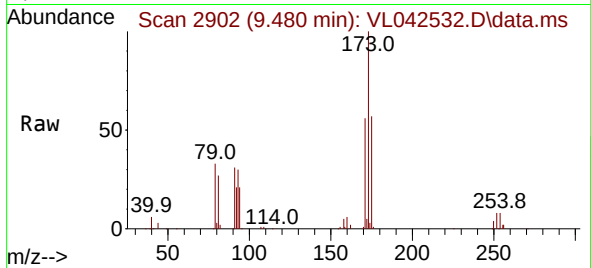
|             |             |
|-------------|-------------|
| Tgt Ion:129 | Resp: 40163 |
| Ion Ratio   | Lower Upper |
| 129 100     |             |
| 127 78.4    | 39.6 118.8  |





#49  
Bromoform  
Concen: 2.056 ppbv  
RT: 9.480 min Scan# 2900  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

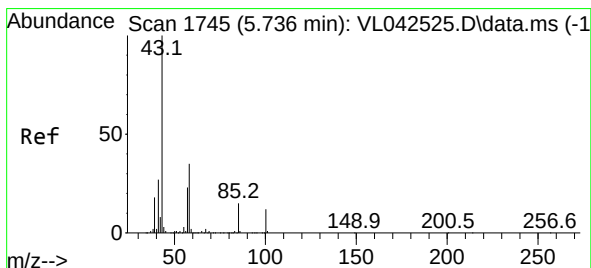
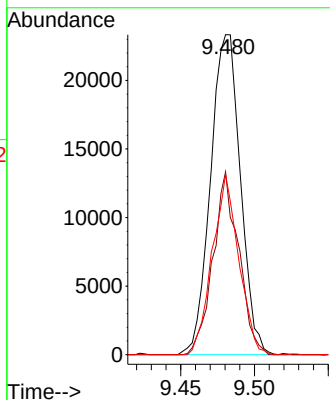
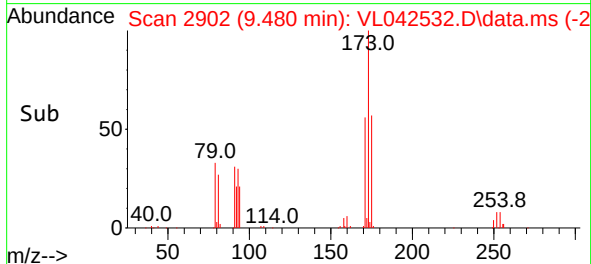
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 173 Resp: 32910  
Ion Ratio Lower Upper  
173 100  
175 49.2 39.1 58.7  
171 49.8 41.8 62.8

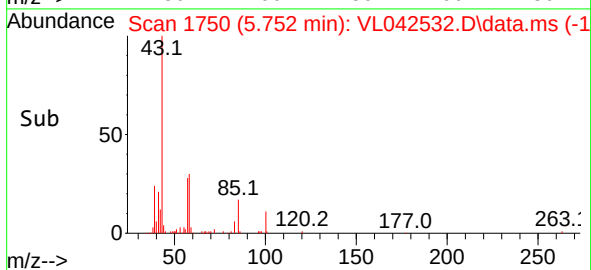
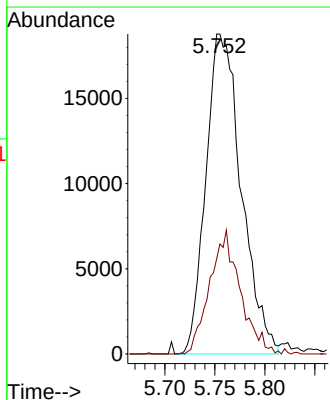
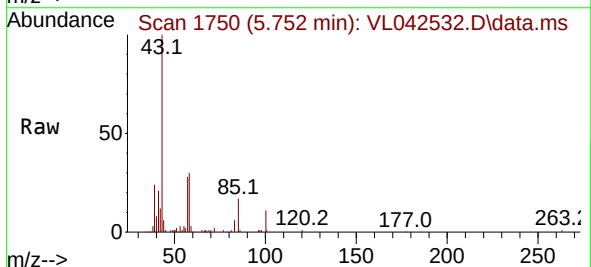
Manual Integrations  
APPROVED

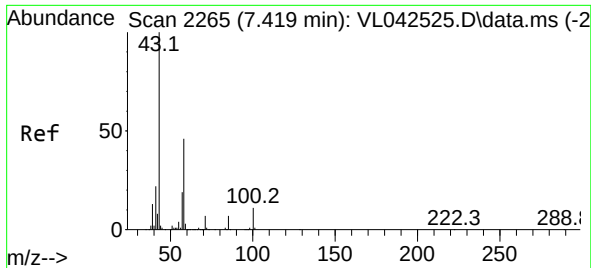
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#50  
4-Methyl-2-Pentanone  
Concen: 1.994 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. 0.016 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

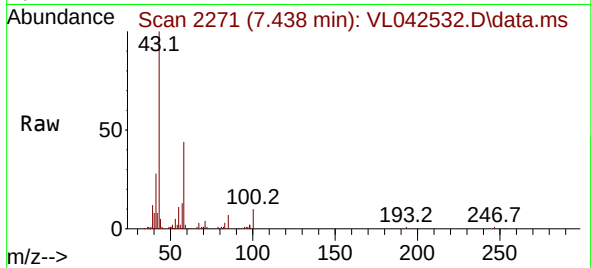
Tgt Ion: 43 Resp: 46331  
Ion Ratio Lower Upper  
43 100  
58 33.4 28.6 42.8





#51  
2-Hexanone  
Concen: 1.916 ppbv  
RT: 7.438 min Scan# 2113  
Delta R.T. 0.019 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

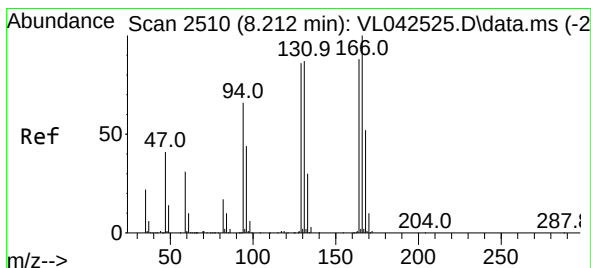
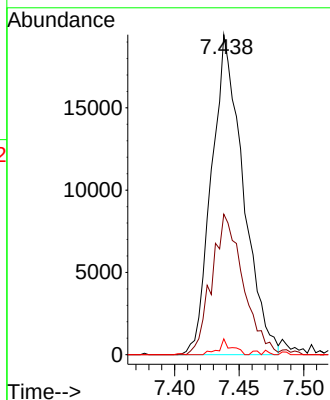
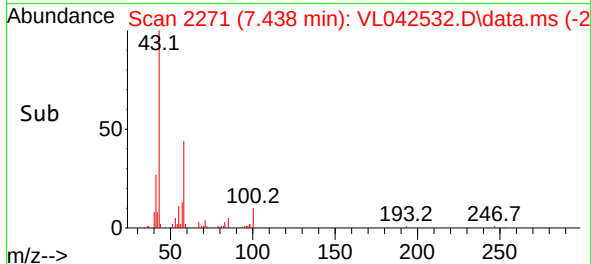
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



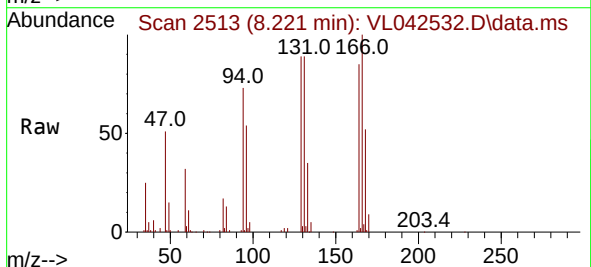
Tgt Ion: 43 Resp: 3308  
Ion Ratio Lower Upper  
43 100  
58 44.3 37.5 56.3  
98 2.7 0.9 1.3

Manual Integrations  
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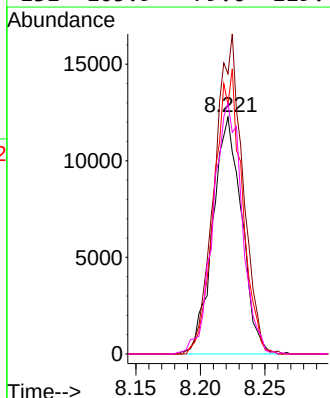
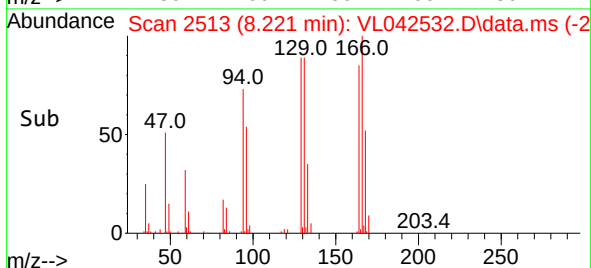
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

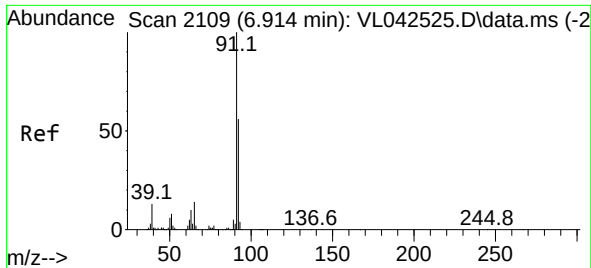


#52  
Tetrachloroethene  
Concen: 1.863 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



Tgt Ion:164 Resp: 19118  
Ion Ratio Lower Upper  
164 100  
166 118.3 91.3 136.9  
129 105.4 78.9 118.3  
131 105.9 79.6 119.4





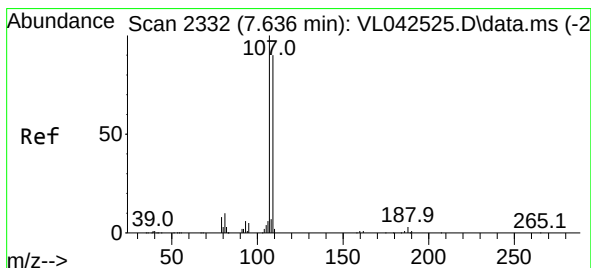
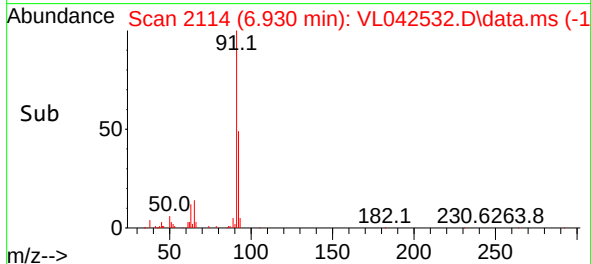
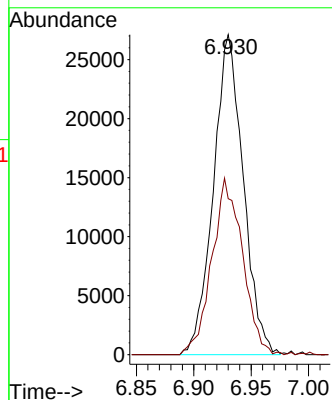
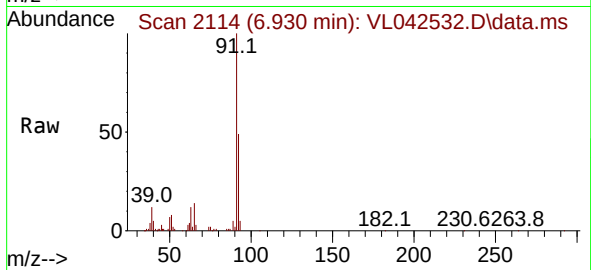
#53  
Toluene  
Concen: 1.882 ppbv  
RT: 6.930 min Scan# 2109  
Delta R.T. 0.016 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 91 Resp: 49210  
Ion Ratio Lower Upper  
91 100  
92 56.6 47.8 71.6

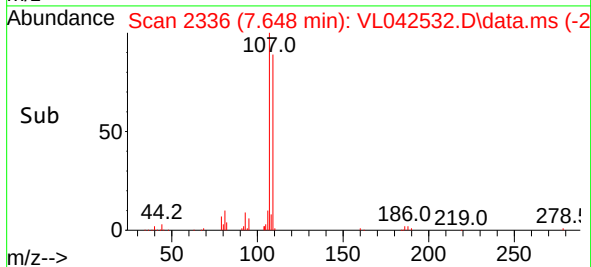
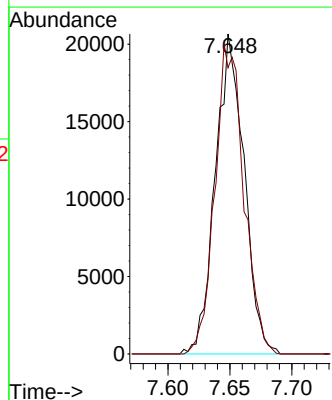
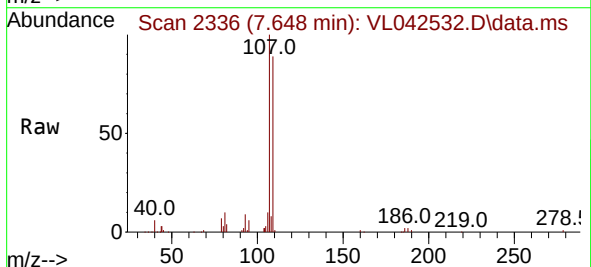
Manual Integrations  
APPROVED

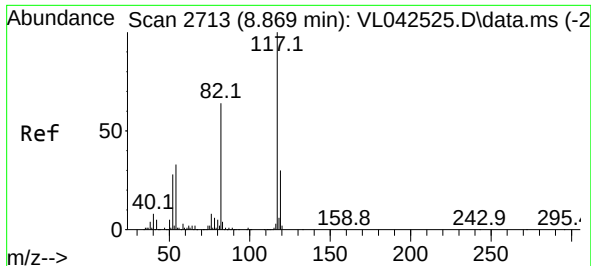
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#54  
1,2-Dibromoethane  
Concen: 1.958 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. 0.013 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

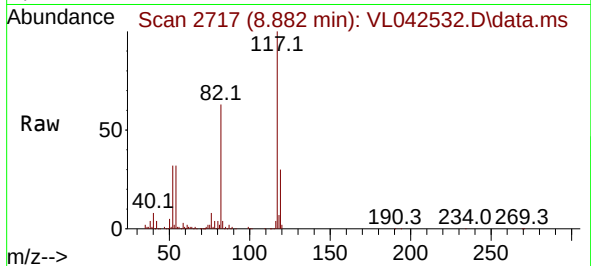
Tgt Ion:107 Resp: 33420  
Ion Ratio Lower Upper  
107 100  
109 89.5 72.2 108.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2713  
Delta R.T. 0.013 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

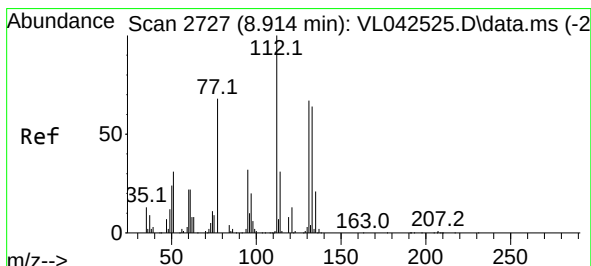
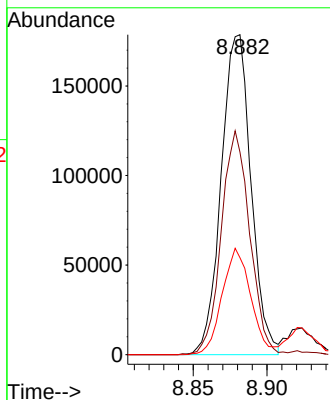
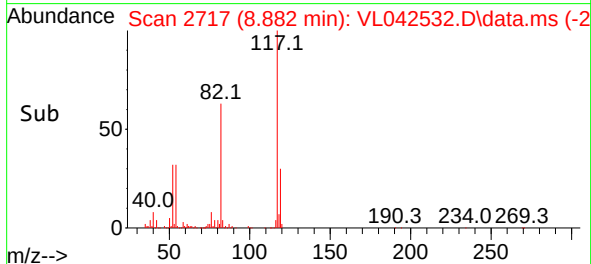
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion:117 Resp: 25130  
Ion Ratio Lower Upper  
117 100  
82 67.6 55.0 82.4  
119 31.9 25.8 38.6

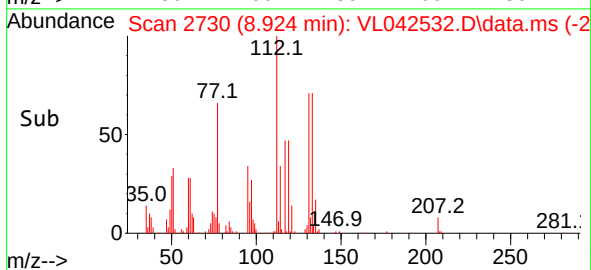
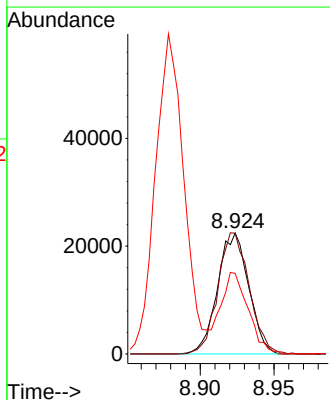
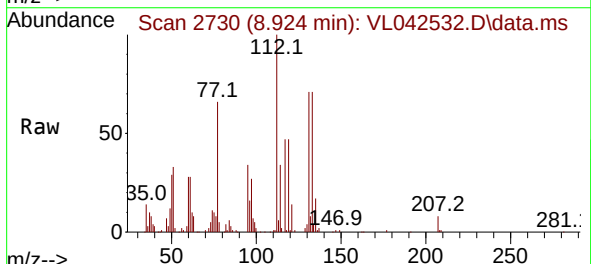
Manual Integrations  
APPROVED

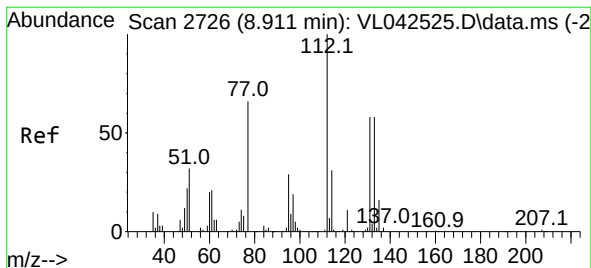
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.119 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion:131 Resp: 33013  
Ion Ratio Lower Upper  
131 100  
133 100.7 77.4 116.2  
119 54.3 49.0 73.4





#57

Chlorobenzene

Concen: 2.147 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

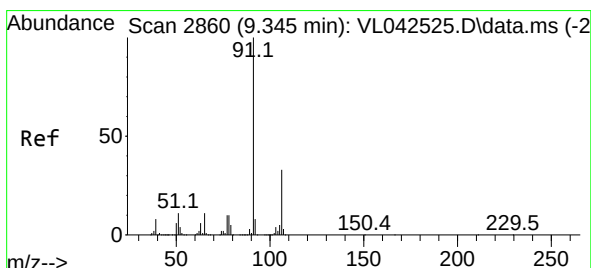
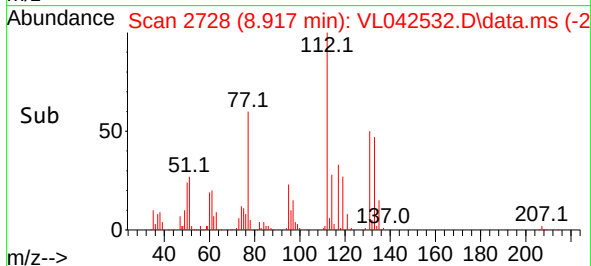
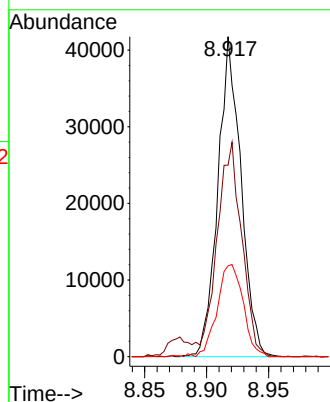
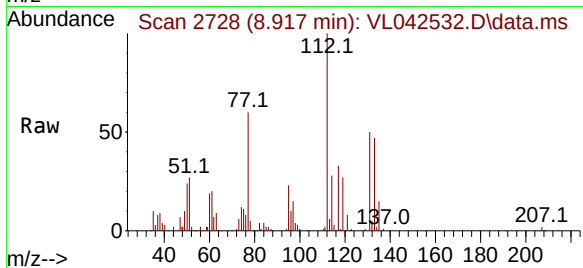
VSTDIC002

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 5417 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 77        | 59.7  | 53.6  | 80.4 |
| 114       | 28.4  | 28.2  | 34.4 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 1.934 ppbv

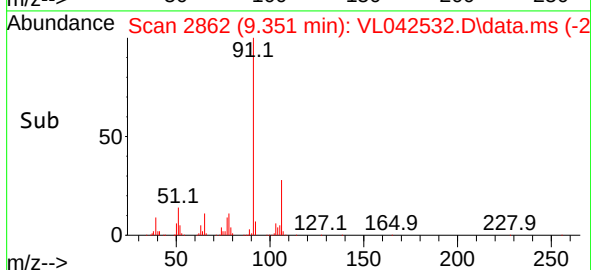
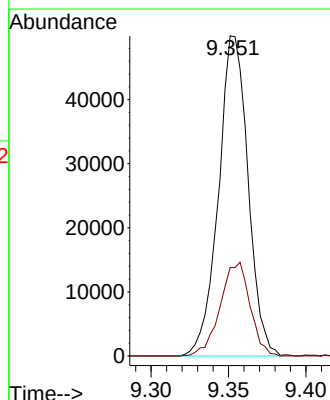
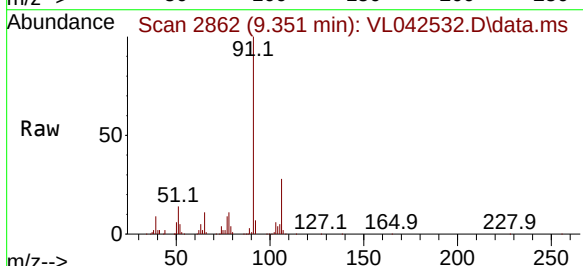
RT: 9.351 min Scan# 2862

Delta R.T. 0.006 min

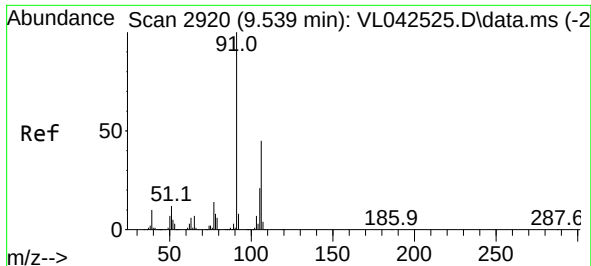
Lab File: VL042532.D

Acq: 12 May 2025 12:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 66256 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 27.6  | 26.0  | 39.0  |







#59

m/p-Xylene

Concen: 4.372 ppbv m

RT: 9.545 min Scan# 2920

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 13320

Ion Ratio Lower Upper

91 100

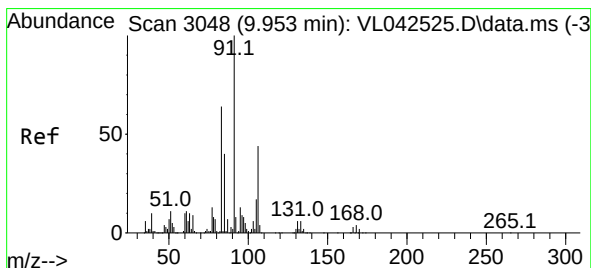
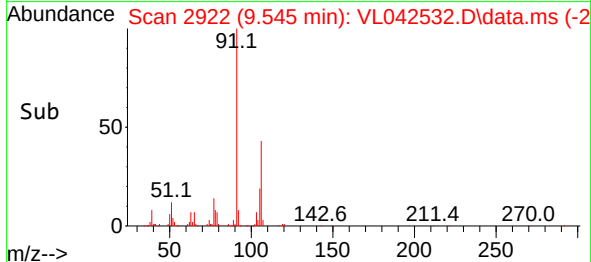
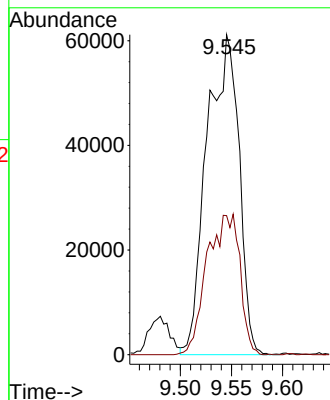
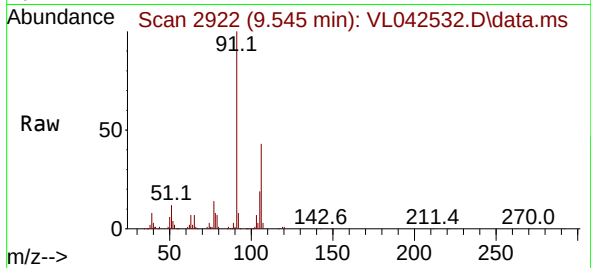
106 45.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 2.188 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL042532.D

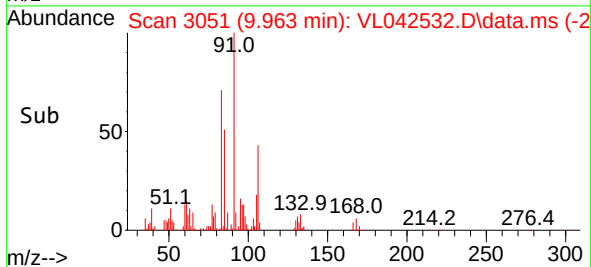
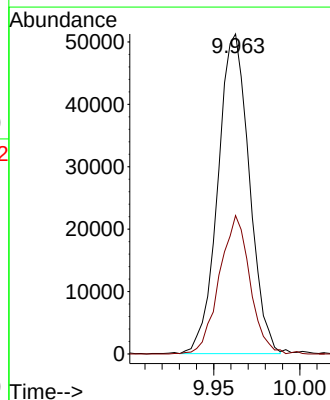
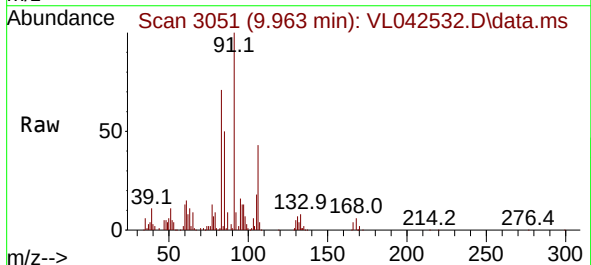
Acq: 12 May 2025 12:58

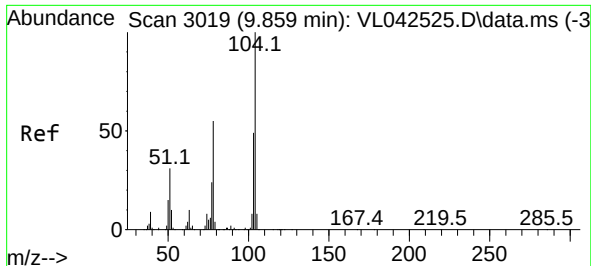
Tgt Ion: 91 Resp: 64958

Ion Ratio Lower Upper

91 100

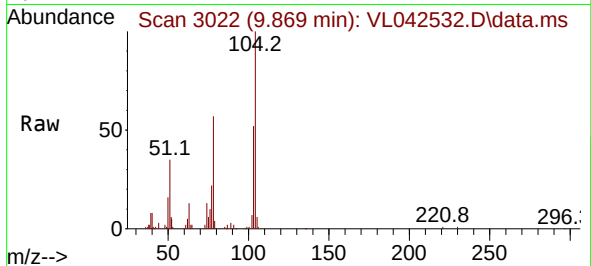
106 42.3 21.6 64.6





#61  
Styrene  
Concen: 1.802 ppbv m  
RT: 9.869 min Scan# 3019  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

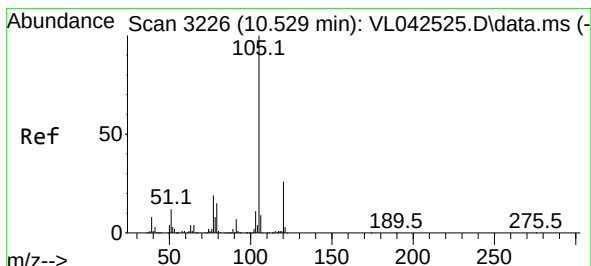
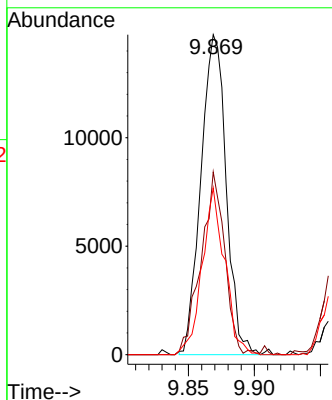
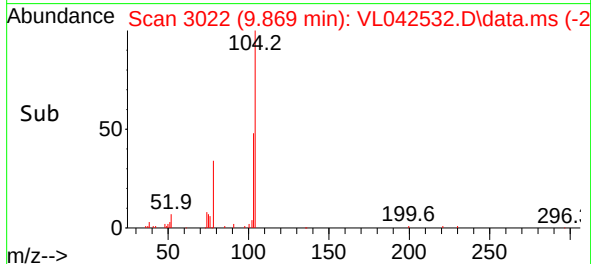
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



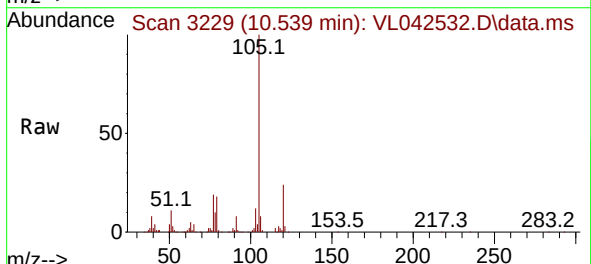
Tgt Ion:104 Resp: 1971  
Ion Ratio Lower Upper  
104 100  
78 53.9 44.7 67.1  
103 46.5 38.6 58.0

Manual Integrations  
APPROVED

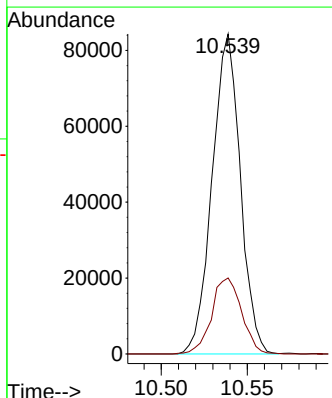
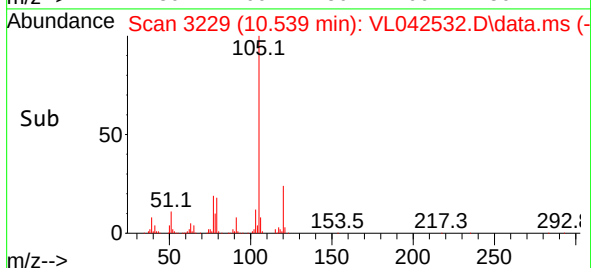
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

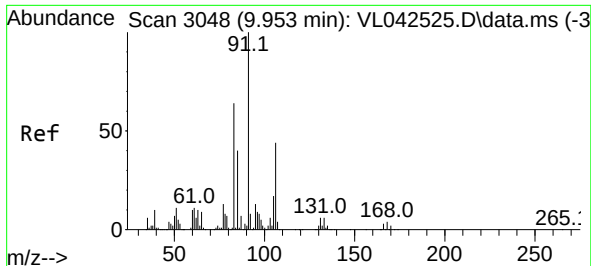


#62  
Isopropylbenzene  
Concen: 2.147 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



Tgt Ion:105 Resp: 96054  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.1 30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 2.096 ppbv

RT: 9.959 min Scan# 3048

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

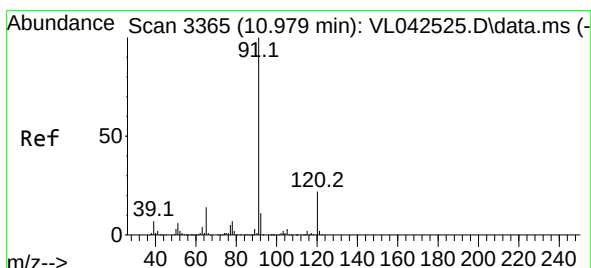
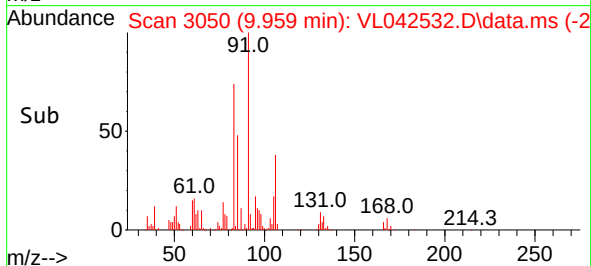
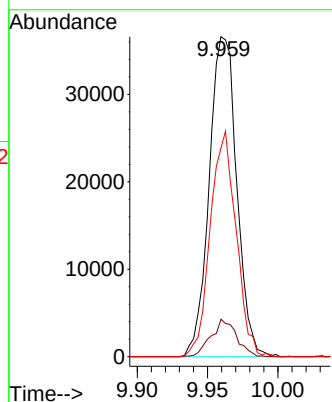
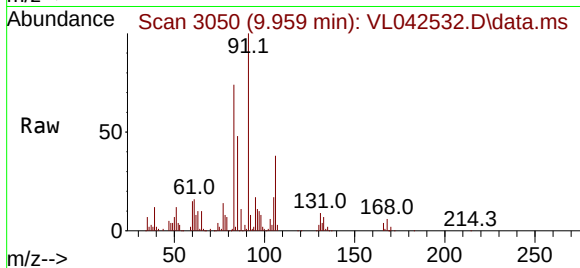
VSTDICC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 4990  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 10.8  | 4.9   | 14.7  |
| 85       | 65.9  | 32.3  | 96.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#64

n-propylbenzene

Concen: 2.230 ppbv

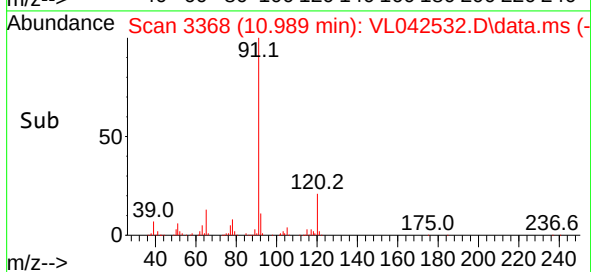
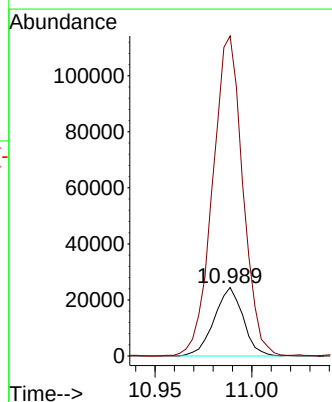
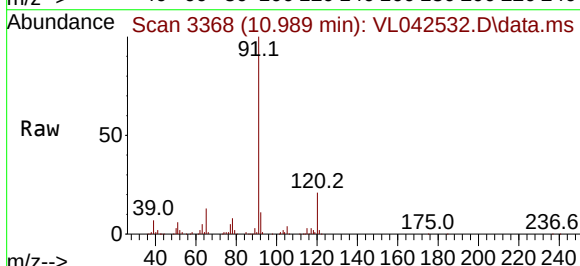
RT: 10.989 min Scan# 3368

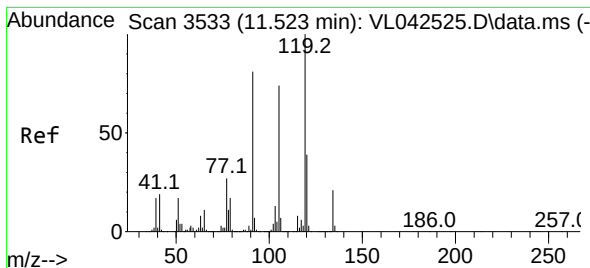
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 120   | Resp: | 25286 |
| Ion      | Ratio | Lower | Upper |
| 120      | 100   |       |       |
| 91       | 491.5 | 377.7 | 566.5 |





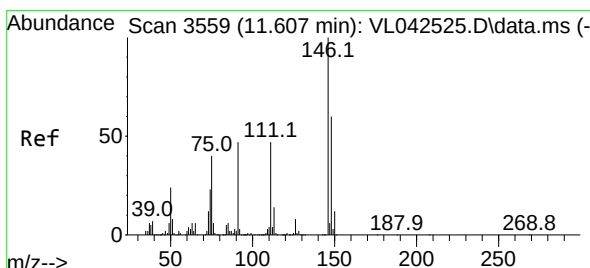
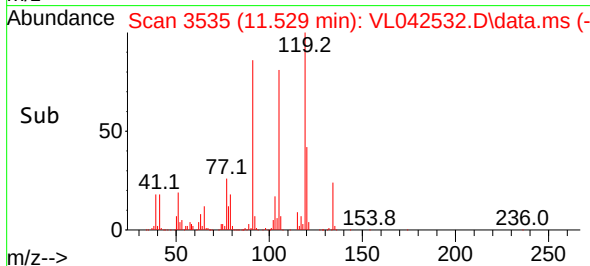
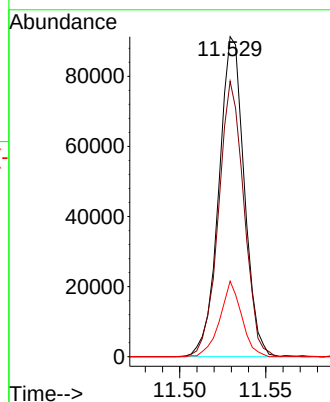
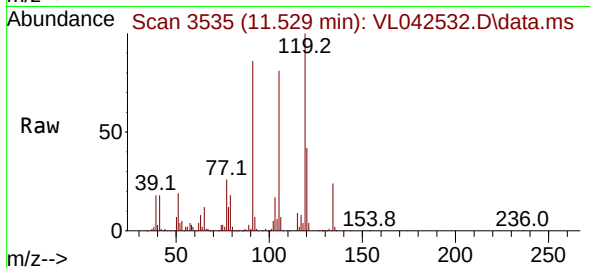
#65  
tert-Butylbenzene  
Concen: 2.278 ppbv  
RT: 11.529 min Scan# 3533  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 93604 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 86.3  | 66.6  | 99.8  |
| 134       | 20.3  | 16.3  | 24.5  |

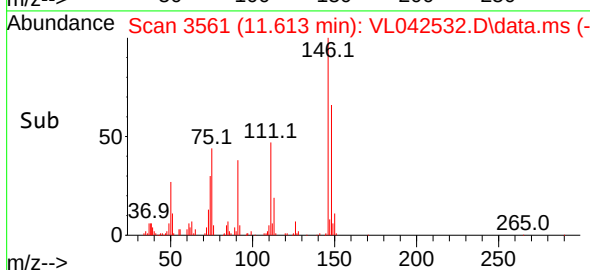
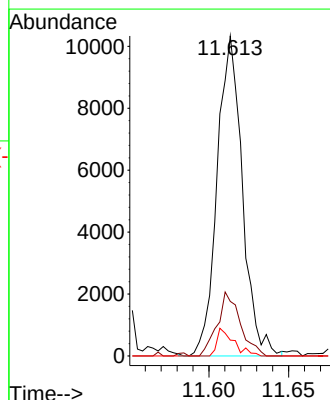
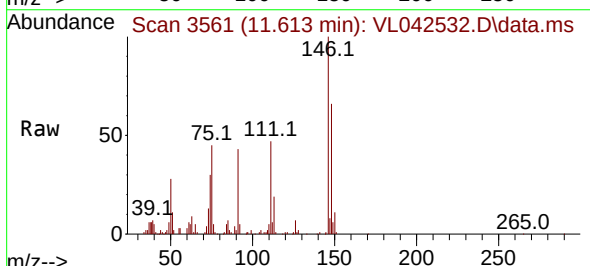
Manual Integrations  
APPROVED

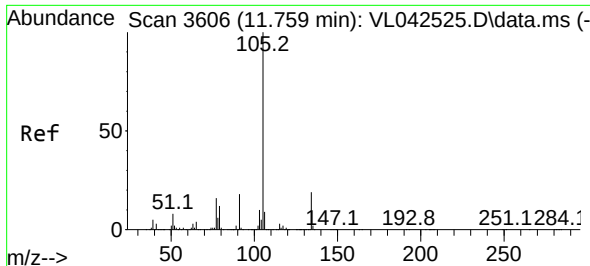
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#66  
Benzyl Chloride  
Concen: 2.089 ppbv m  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

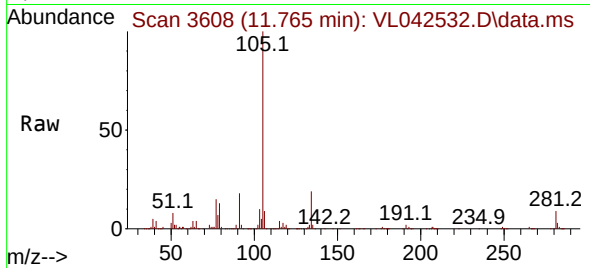
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 11357 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 126       | 18.7  | 13.7  | 20.5  |
| 128       | 5.8   | 4.2   | 6.2   |





#67  
 sec-Butylbenzene  
 Concen: 2.316 ppbv  
 RT: 11.765 min Scan# 3608  
 Delta R.T. 0.006 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

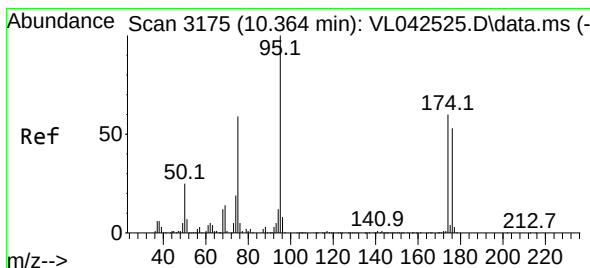
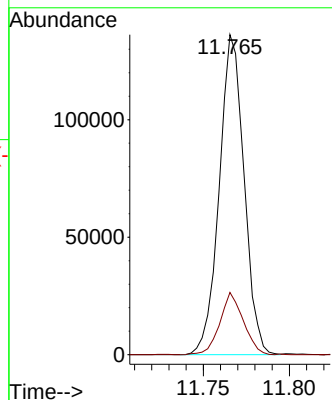
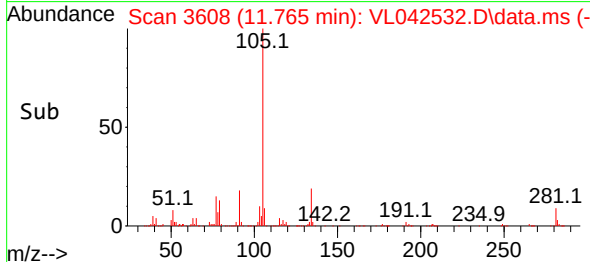
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



Tgt Ion:105 Resp: 136432  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 14.9 22.3

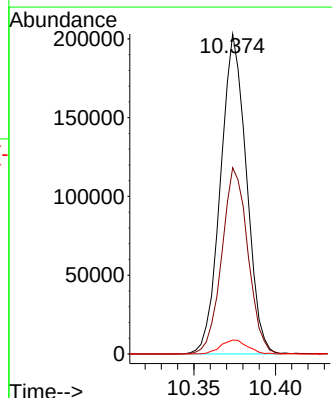
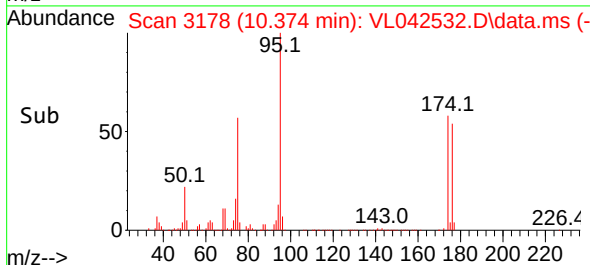
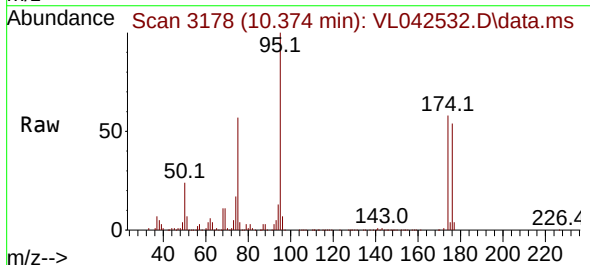
Manual Integrations  
 APPROVED

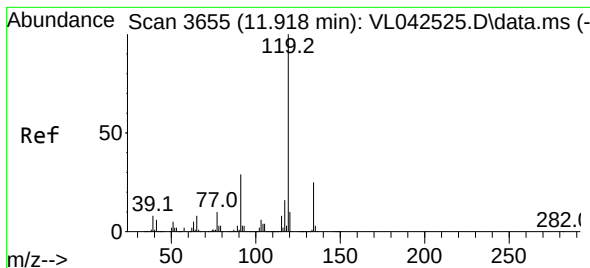
Reviewed By :Semsettin Yesilyurt 05/14/2025  
 Supervised By :Mahesh Dadoda 05/14/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.238 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. 0.010 min  
 Lab File: VL042532.D  
 Acq: 12 May 2025 12:58

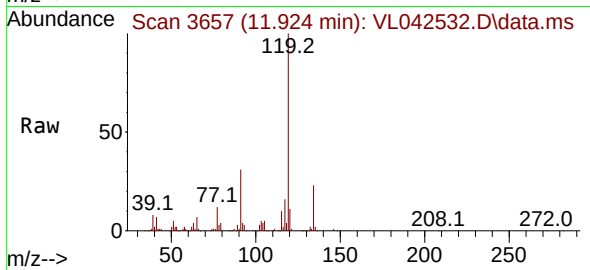
Tgt Ion: 95 Resp: 223868  
 Ion Ratio Lower Upper  
 95 100  
 174 59.0 48.0 72.0  
 175 4.6 3.5 5.3





#69  
p-Isopropyltoluene  
Concen: 2.332 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

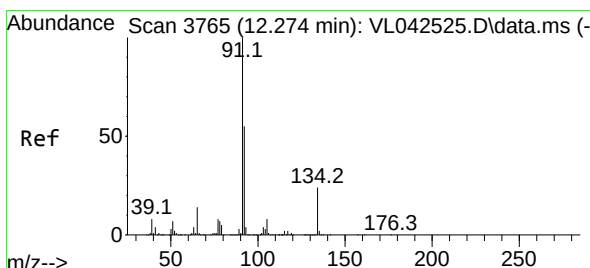
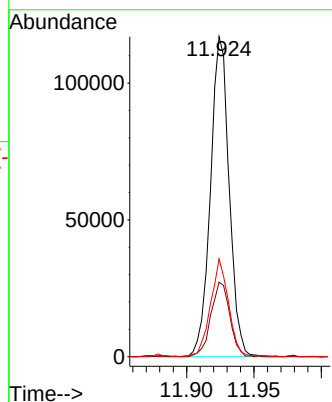
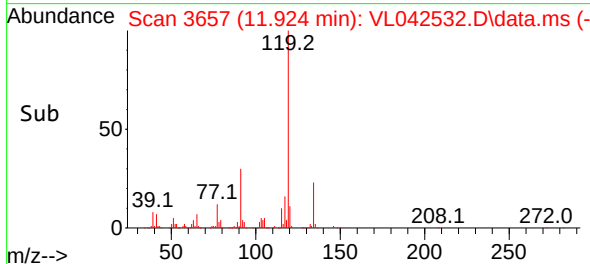
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



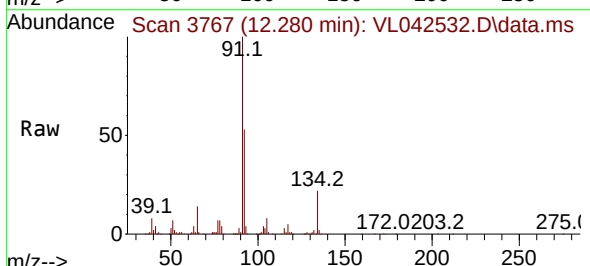
Tgt Ion: 119 Resp: 112911  
Ion Ratio Lower Upper  
119 100  
134 23.5 19.8 29.6  
91 30.3 23.6 35.4

Manual Integrations  
APPROVED

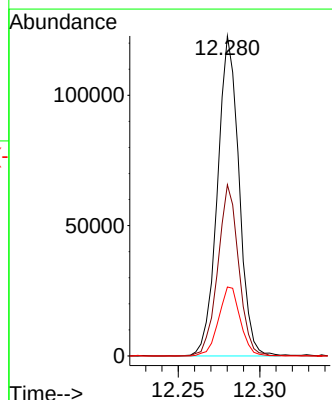
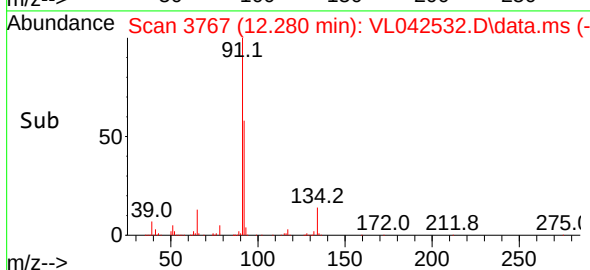
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

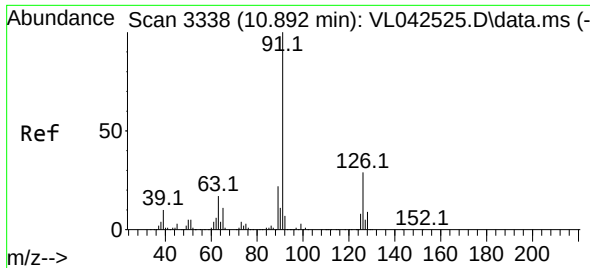


#70  
n-Butylbenzene  
Concen: 2.357 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



Tgt Ion: 91 Resp: 112776  
Ion Ratio Lower Upper  
91 100  
92 51.8 43.7 65.5  
134 21.7 18.9 28.3





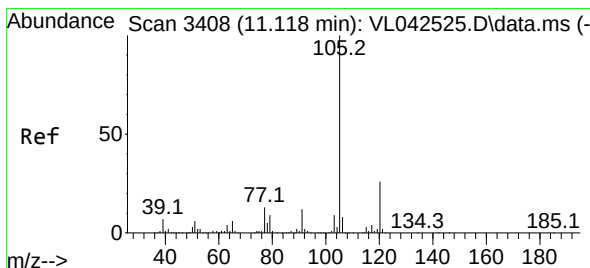
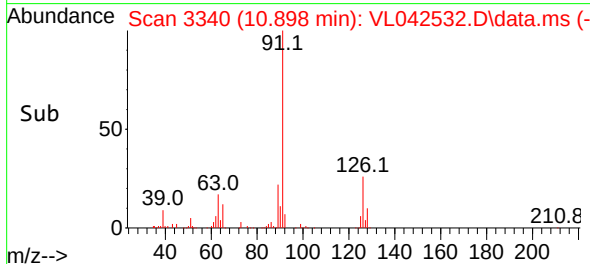
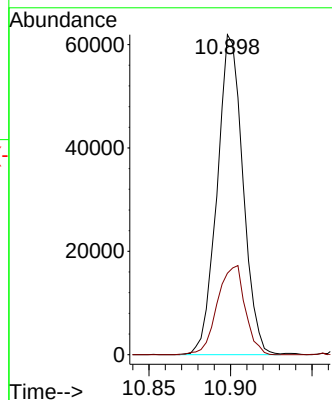
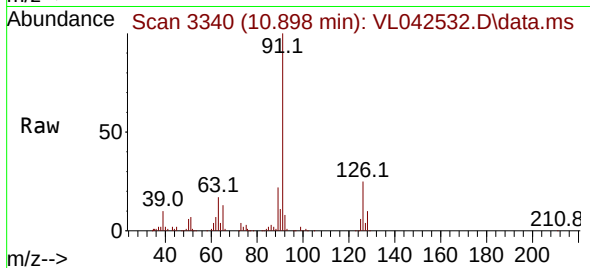
#71  
2-Chlorotoluene  
Concen: 2.012 ppbv  
RT: 10.898 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 91 Resp: 6815  
Ion Ratio Lower Upper  
91 100  
126 29.9 11.4 45.6

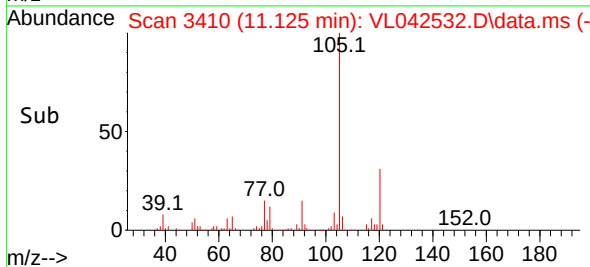
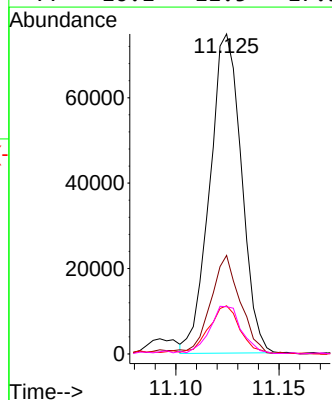
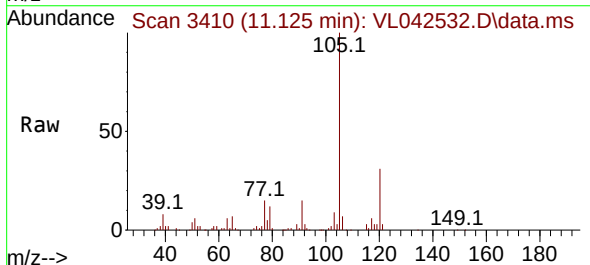
Manual Integrations  
APPROVED

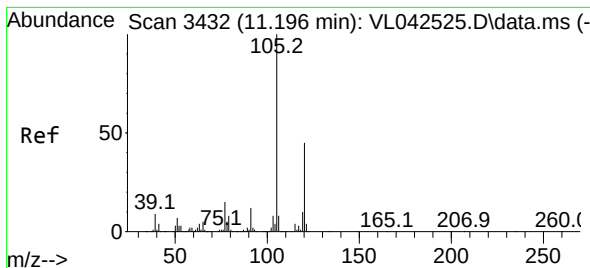
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#72  
4-Ethyltoluene  
Concen: 2.162 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 79670  
Ion Ratio Lower Upper  
105 100  
120 30.3 22.9 34.3  
91 16.3 10.9 16.3  
77 16.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.242 ppbv

RT: 11.202 min Scan# 3432

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 7198

Ion Ratio Lower Upper

105 100

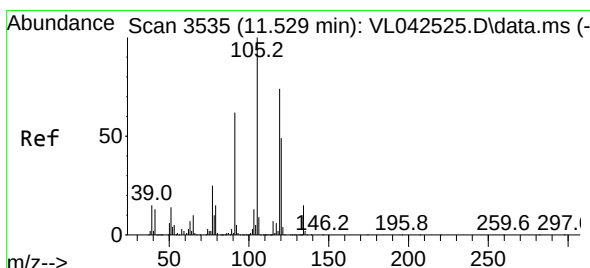
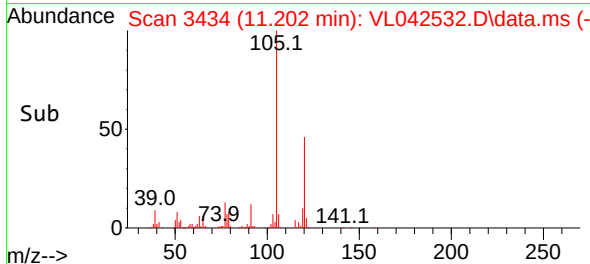
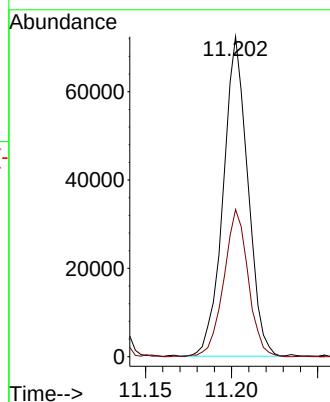
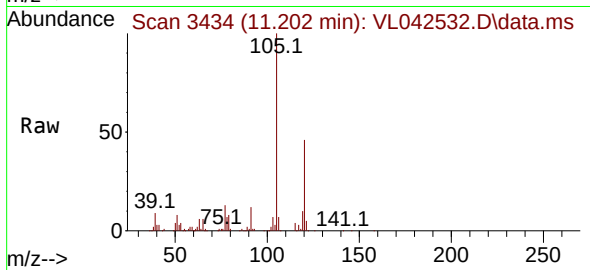
120 46.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.443 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 96474

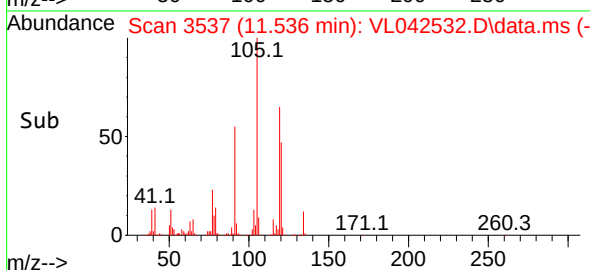
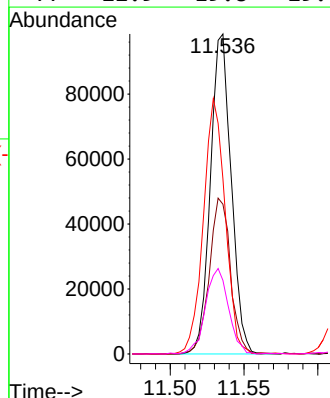
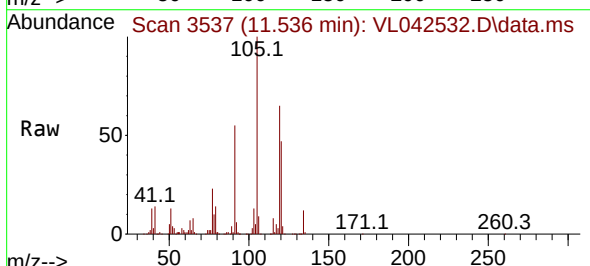
Ion Ratio Lower Upper

105 100

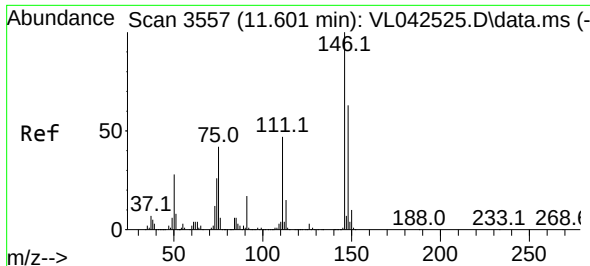
120 46.8 39.0 58.6

91 54.6 49.4 74.2

77 22.9 19.8 29.6







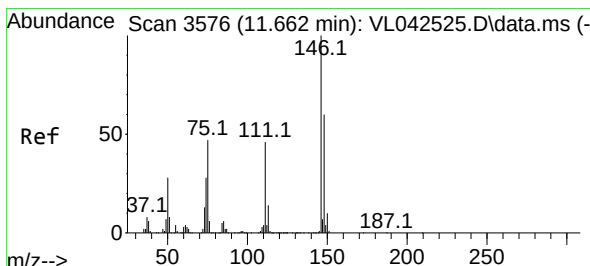
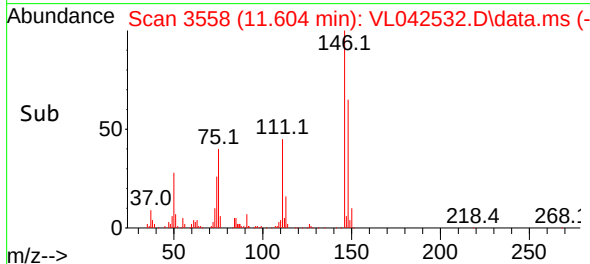
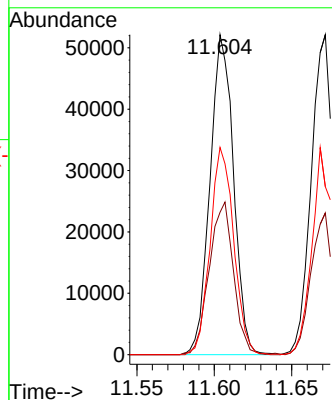
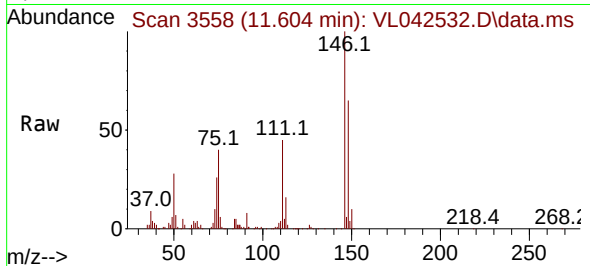
#75  
1,3-Dichlorobenzene  
Concen: 2.221 ppbv  
RT: 11.604 min Scan# 3557  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

Tgt Ion:146 Resp: 54948  
Ion Ratio Lower Upper  
146 100  
111 49.2 23.6 71.0  
148 65.0 31.6 94.8

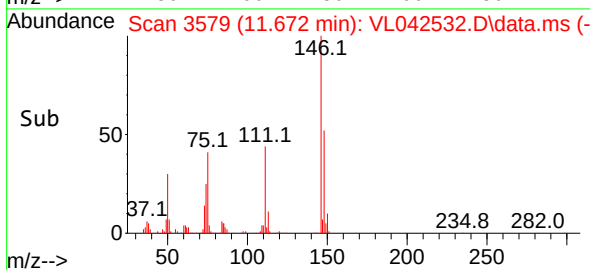
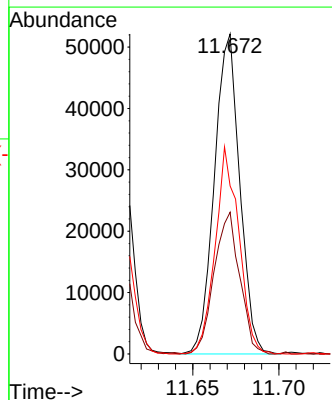
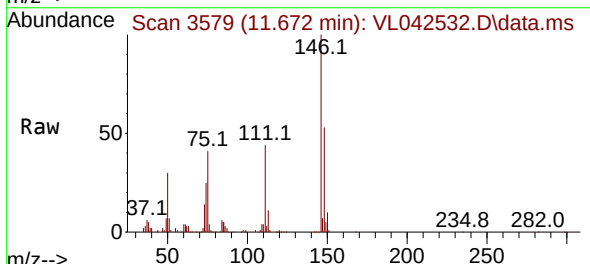
Manual Integrations  
APPROVED

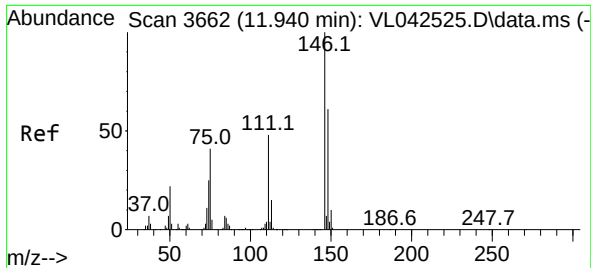
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#76  
1,4-Dichlorobenzene  
Concen: 2.272 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.010 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

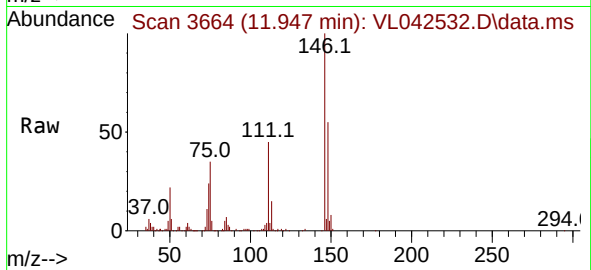
Tgt Ion:146 Resp: 53480  
Ion Ratio Lower Upper  
146 100  
111 44.8 23.4 70.3  
148 60.3 31.6 94.7





#77  
1,2-Dichlorobenzene  
Concen: 2.317 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.006 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58

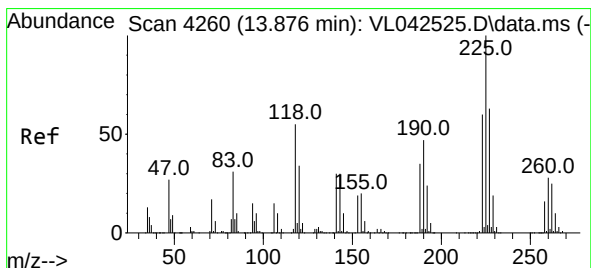
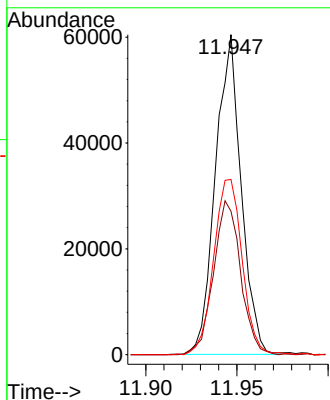
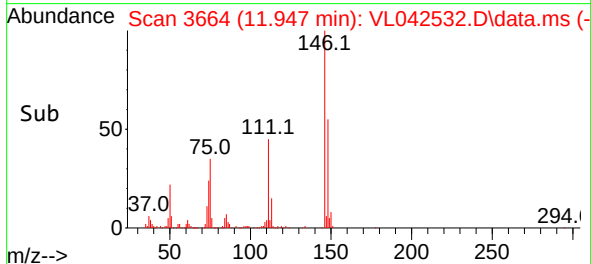
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



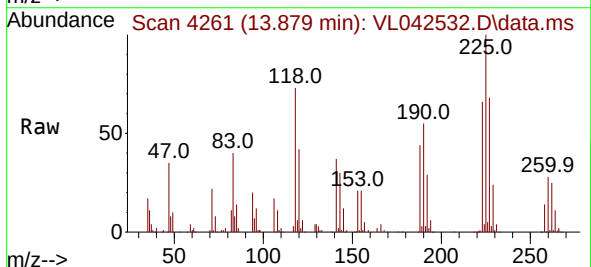
Tgt Ion:146 Resp: 59194  
Ion Ratio Lower Upper  
146 100  
111 50.9 24.9 74.8  
148 60.9 31.4 94.2

Manual Integrations  
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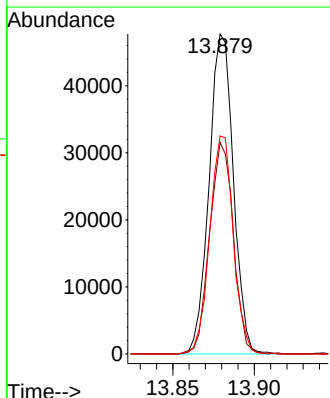
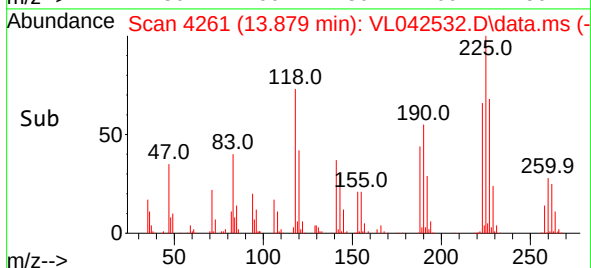
Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025

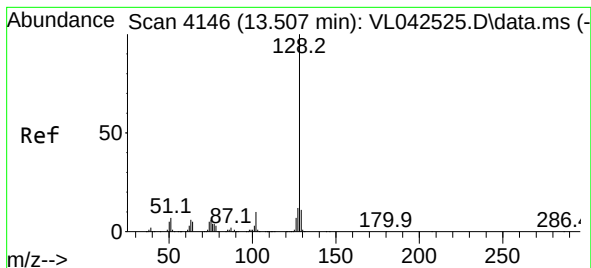


#78  
Hexachloro-1,3-Butadiene  
Concen: 2.258 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. 0.003 min  
Lab File: VL042532.D  
Acq: 12 May 2025 12:58



Tgt Ion:225 Resp: 49456  
Ion Ratio Lower Upper  
225 100  
223 64.6 50.8 76.2  
227 65.9 50.5 75.7





#79

Naphthalene

Concen: 2.564 ppbv

RT: 13.513 min Scan# 4146

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

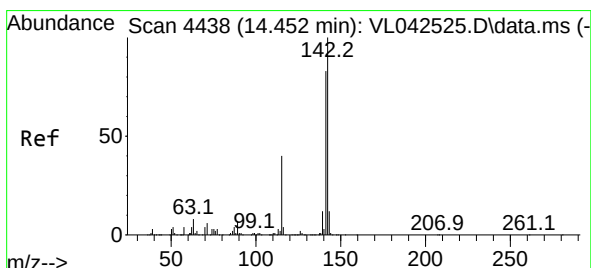
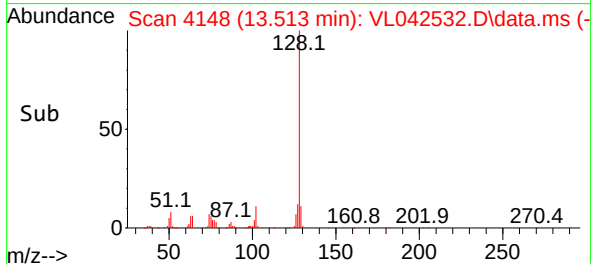
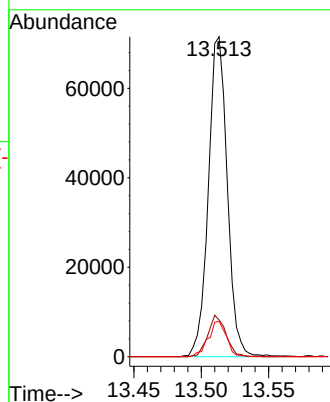
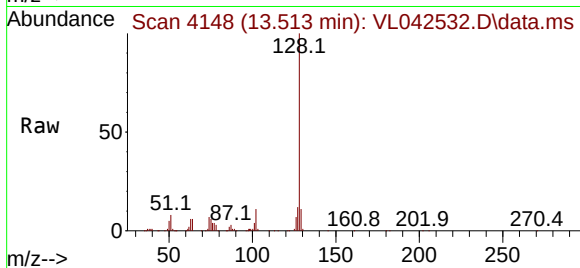
VSTDIC002

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 6990 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 11.5  | 9.8   | 14.8 |
| 129       | 11.0  | 8.6   | 12.8 |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025  
Supervised By :Mahesh Dadoda 05/14/2025



#80

Naphthalene,2-methyl-

Concen: 1.841 ppbv

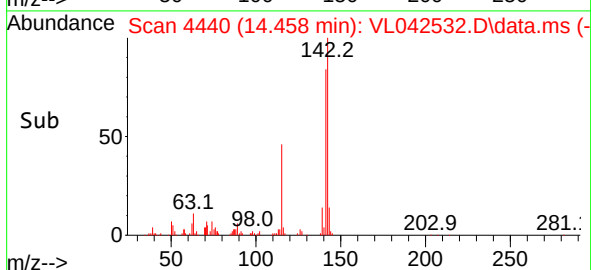
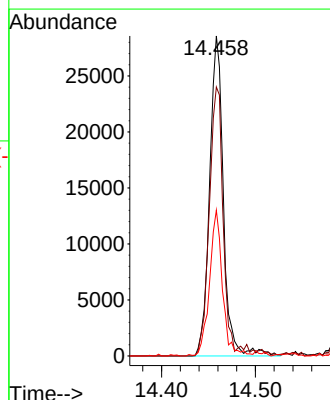
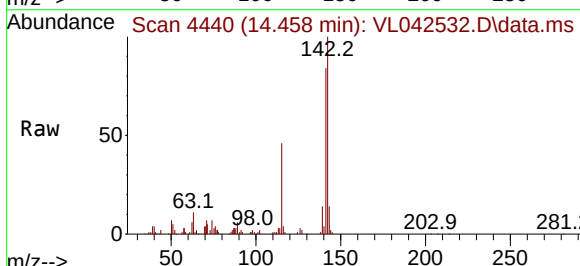
RT: 14.458 min Scan# 4440

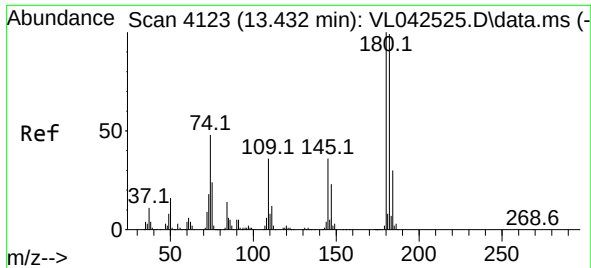
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 29203 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.4  | 66.8  | 100.2 |
| 115       | 43.9  | 33.0  | 49.6  |





#81

1,2,4-Trichlorobenzene

Concen: 2.268 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:180 Resp: 3775

Ion Ratio Lower Upper

180 100

182 97.5 76.6 114.8

184 31.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025

