

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL100925\  
 Data File : VL043097.D  
 Acq On : 09 Oct 2025 20:39  
 Operator : SY/MD  
 Sample : Q3320-12 5X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV6

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025  
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 22:21:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.777  | 49    | 179161   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.939  | 114   | 516837   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.862  | 117   | 480307   | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.361 | 95    | 408138   | 11.796   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 118.000% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 1.476  | 41    | 2069     | 0.176    | ppbv # | 17       |
| 10) Heptane                 | 4.959  | 43    | 4158m    | 0.144    | ppbv   |          |
| 13) Ethanol                 | 1.716  | 45    | 8212     | 17.971   | ppbv # | 31       |
| 15) Acetone                 | 1.829  | 43    | 409717   | 16.333   | ppbv   | 98       |
| 17) tert-Butyl alcohol      | 2.036  | 59    | 17013    | 0.641    | ppbv   | 94       |
| 19) Isopropyl Alcohol       | 1.881  | 45    | 36882    | 3.069    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.052  | 84    | 2526     | 0.231    | ppbv # | 93       |
| 26) Hexane                  | 2.816  | 57    | 27696    | 1.144    | ppbv # | 33       |
| 34) 2-Butanone              | 2.551  | 43    | 6599     | 0.188    | ppbv   | 94       |
| 36) Benzene                 | 3.638  | 78    | 5173m    | 0.105    | ppbv   |          |
| 38) Trichloroethene         | 4.532  | 130   | 7158m    | 0.348    | ppbv   |          |
| 52) Tetrachloroethene       | 8.205  | 164   | 30608    | 1.674    | ppbv   | 98       |
| 53) Toluene                 | 6.907  | 91    | 16951    | 0.340    | ppbv   | 97       |
| 58) Ethyl Benzene           | 9.338  | 91    | 150455   | 2.022    | ppbv   | 100      |
| 59) m/p-Xylene              | 9.516  | 91    | 253469   | 4.039    | ppbv   | 100      |
| 60) o-Xylene                | 9.950  | 91    | 47876    | 0.766    | ppbv   | 98       |
| -----                       |        |       |          |          |        |          |

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

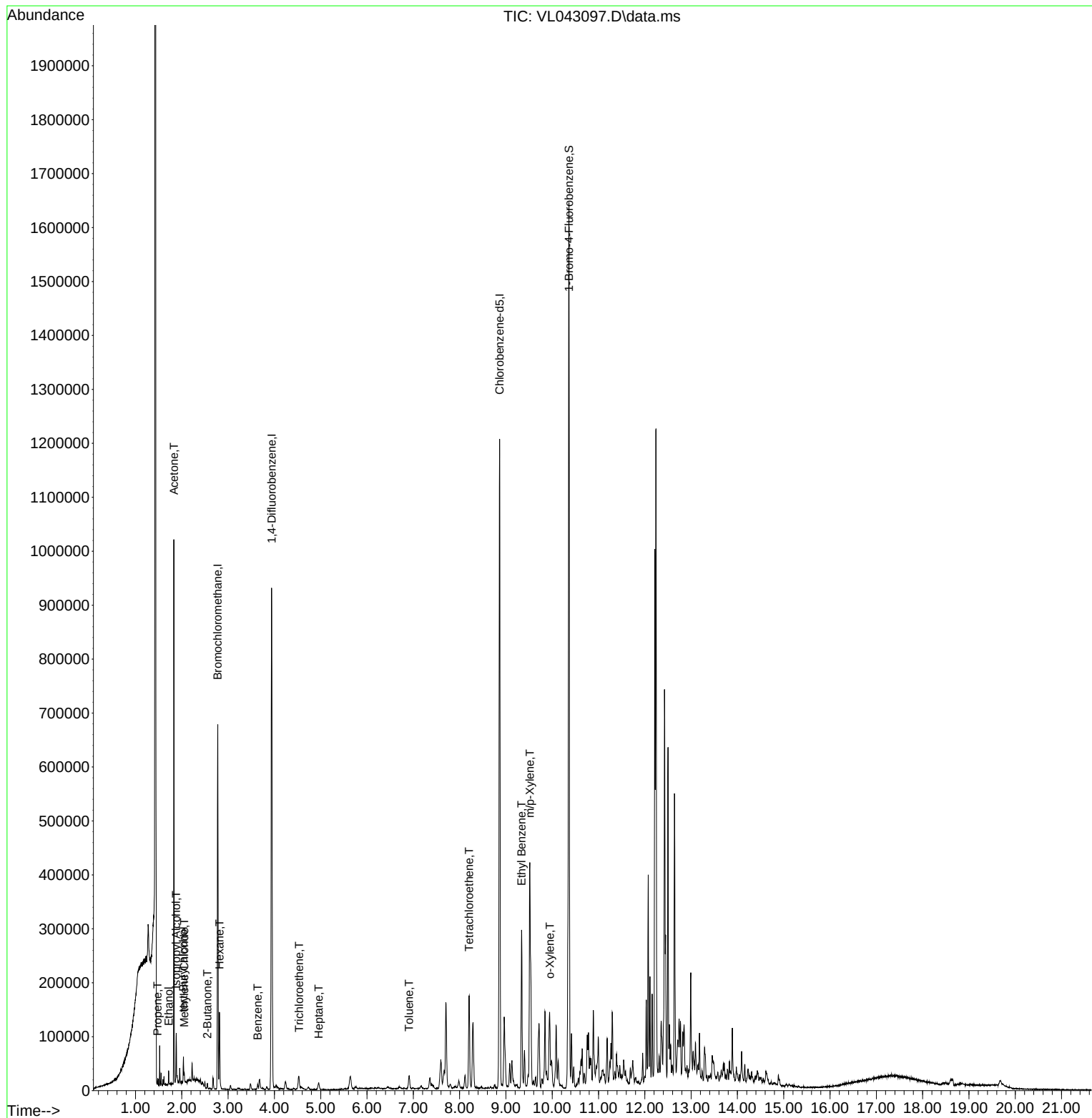
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL100925\  
Data File : VL043097.D  
Acq On : 09 Oct 2025 20:39  
Operator : SY/MD  
Sample : Q3320-12 5X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

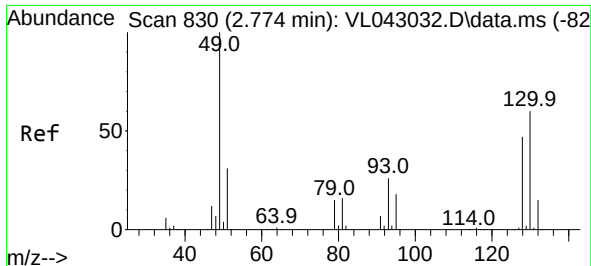
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6

Quant Time: Oct 09 22:21:04 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL100225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Oct 03 08:23:34 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

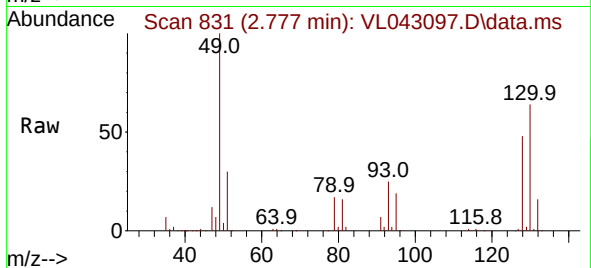
Reviewed By : Semsettin Yesilyurt 10/10/2025  
Supervised By : Mahesh Dadoda 10/10/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.777 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

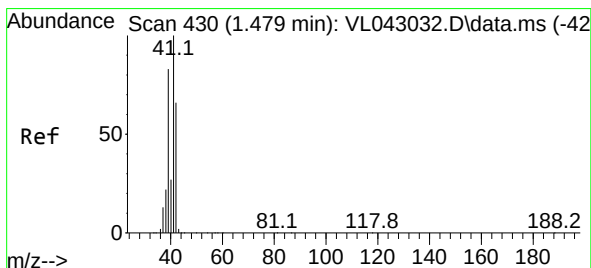
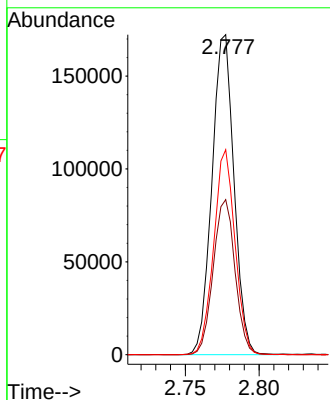
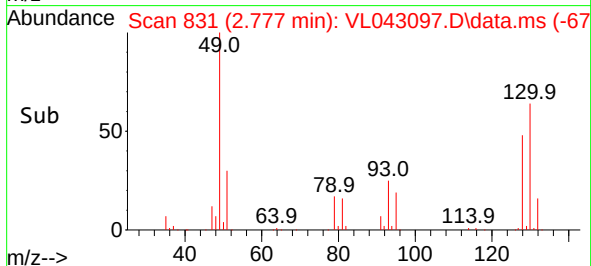
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6



Tgt Ion: 49 Resp: 17916  
Ion Ratio Lower Upper  
49 100  
128 48.0 24.1 72.2  
130 62.1 31.4 94.3

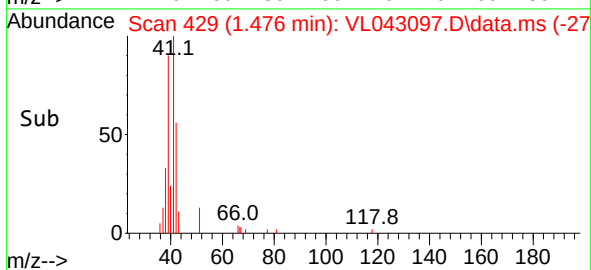
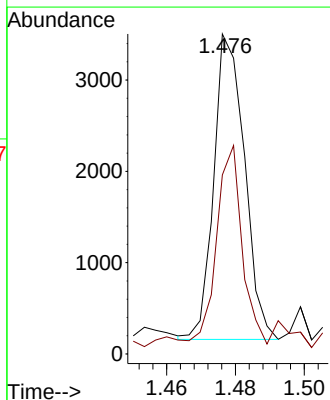
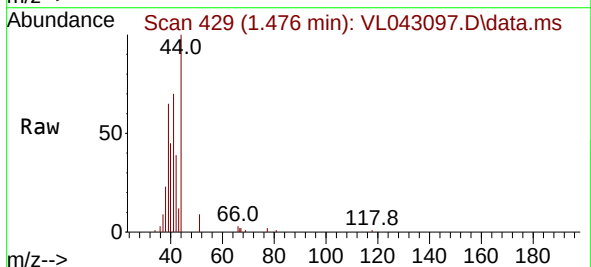
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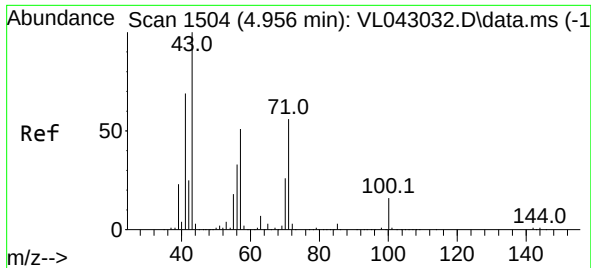
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025



#9  
Propene  
Concen: 0.176 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Tgt Ion: 41 Resp: 2069  
Ion Ratio Lower Upper  
41 100  
42 0.0 53.3 79.9#





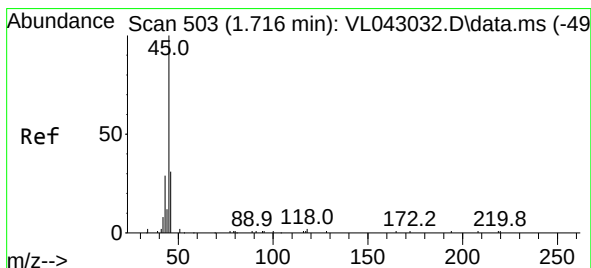
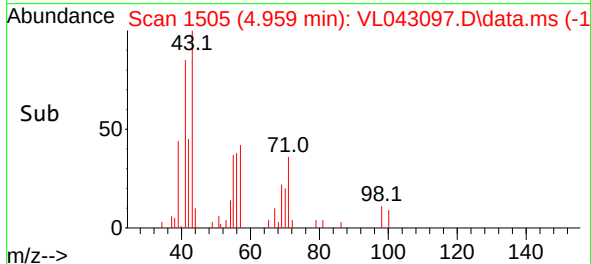
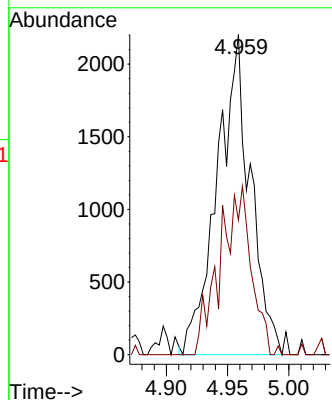
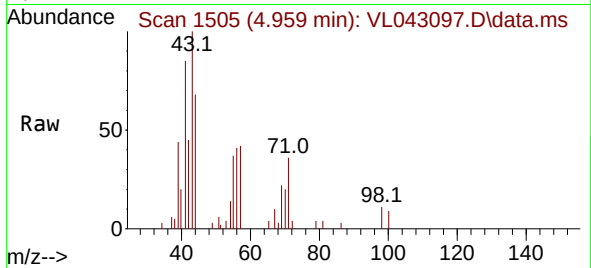
#10  
Heptane  
Concen: 0.144 ppbv m  
RT: 4.959 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6

Tgt Ion: 43 Resp: 4158  
Ion Ratio Lower Upper  
43 100  
57 49.8 40.3 60.5

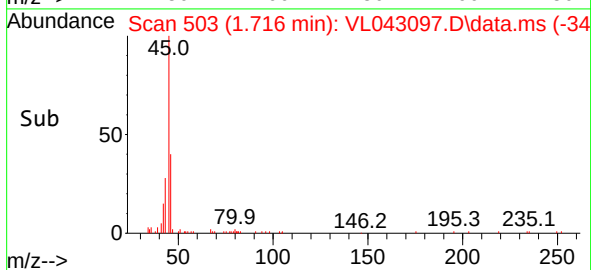
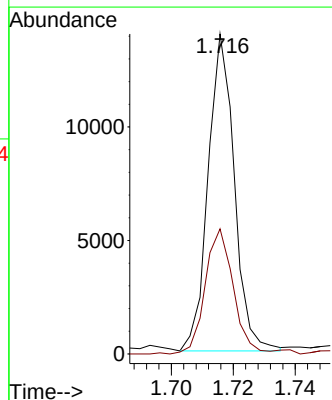
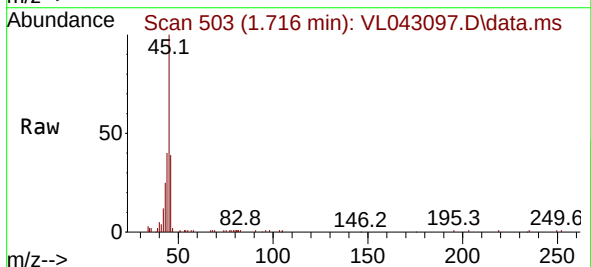
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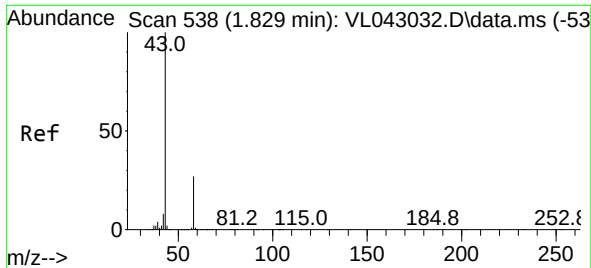
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025



#13  
Ethanol  
Concen: 17.971 ppbv  
RT: 1.716 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

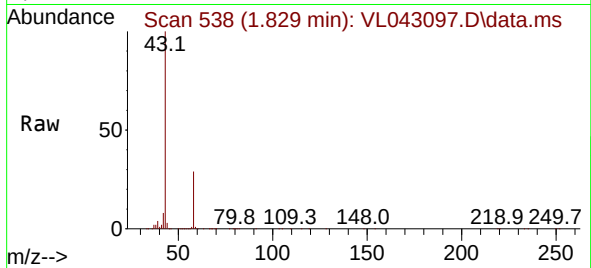
Tgt Ion: 45 Resp: 8212  
Ion Ratio Lower Upper  
45 100  
46 0.0 17.8 71.4#





#15  
Acetone  
Concen: 16.333 ppbv  
RT: 1.829 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

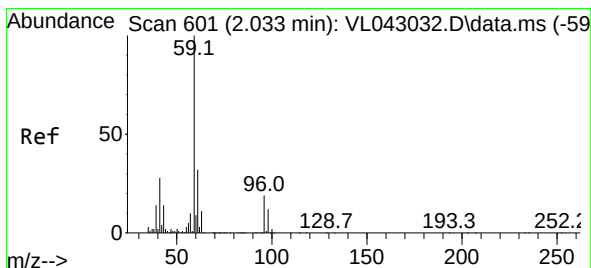
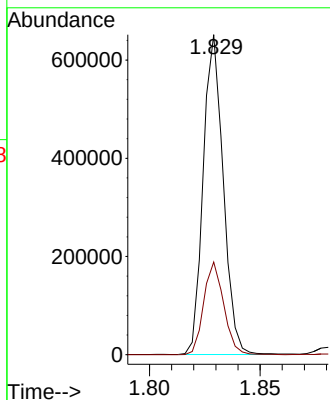
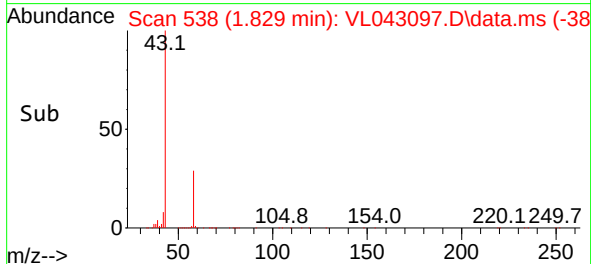
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6



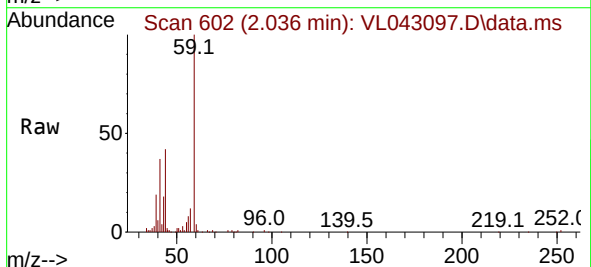
Tgt Ion: 43 Resp: 40971  
Ion Ratio Lower Upper  
43 100  
58 28.9 22.2 33.4

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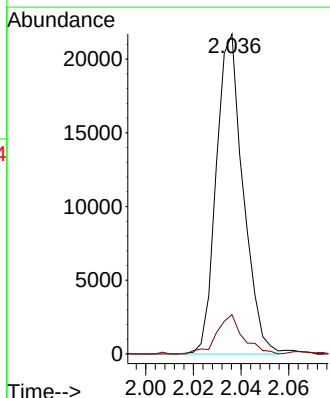
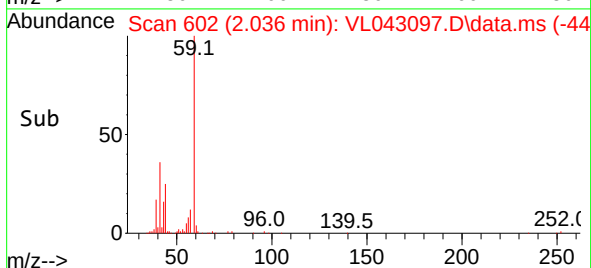
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025

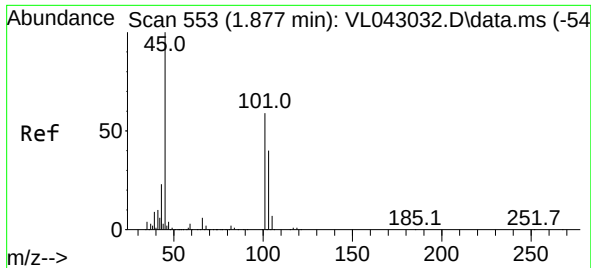


#17  
tert-Butyl alcohol  
Concen: 0.641 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39



Tgt Ion: 59 Resp: 17013  
Ion Ratio Lower Upper  
59 100  
57 12.7 8.5 12.7





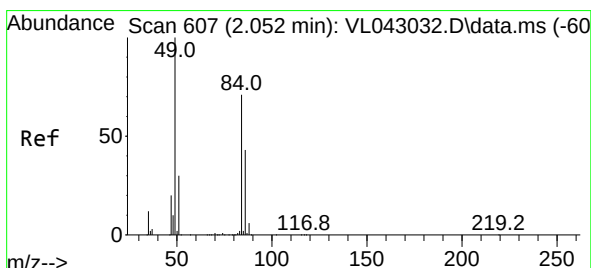
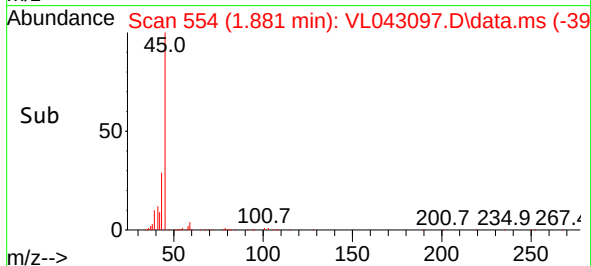
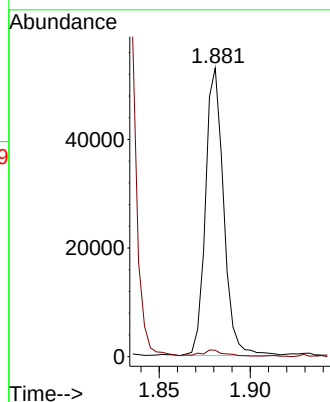
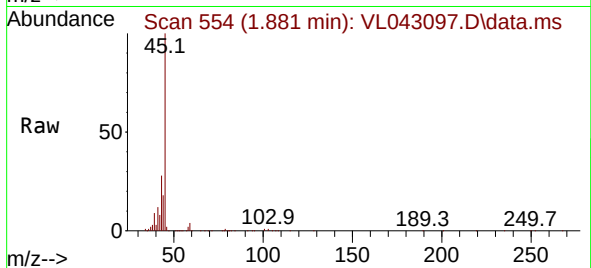
#19  
Isopropyl Alcohol  
Concen: 3.069 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6

Tgt Ion: 45 Resp: 3688  
Ion Ratio Lower Upper  
45 100  
58 320.9 42.3 63.5

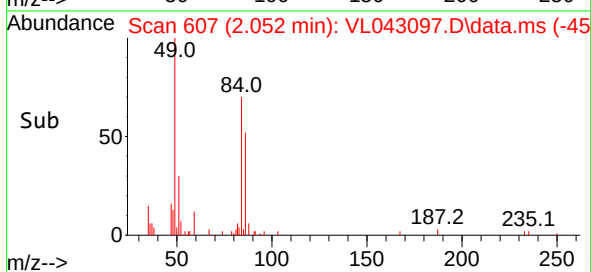
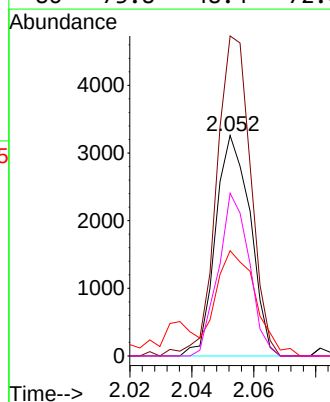
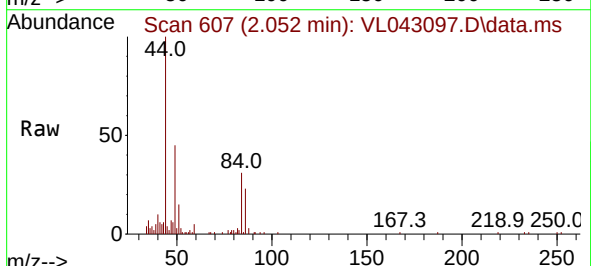
Manual Integrations  
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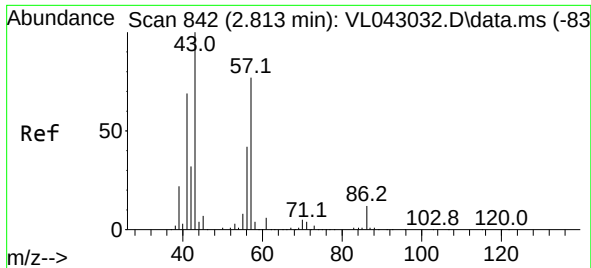
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025



#20  
Methylene Chloride  
Concen: 0.231 ppbv  
RT: 2.052 min Scan# 607  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

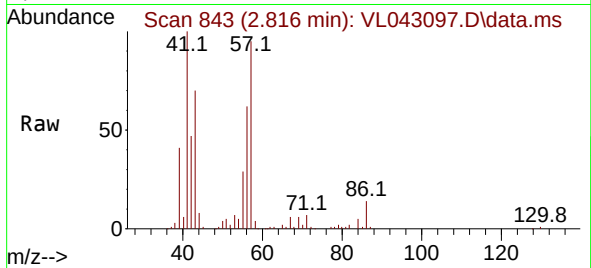
Tgt Ion: 84 Resp: 2526  
Ion Ratio Lower Upper  
84 100  
49 145.1 112.5 168.7  
51 45.0 34.2 51.2  
86 73.8 48.4 72.6





#26  
Hexane  
Concen: 1.144 ppbv  
RT: 2.816 min Scan# 842  
Delta R.T. 0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

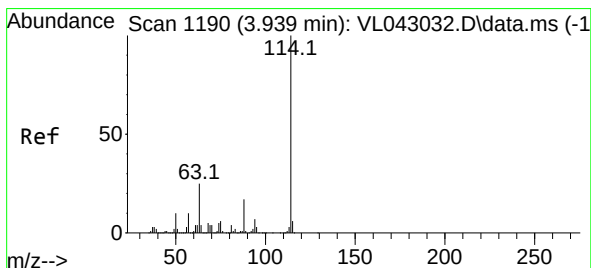
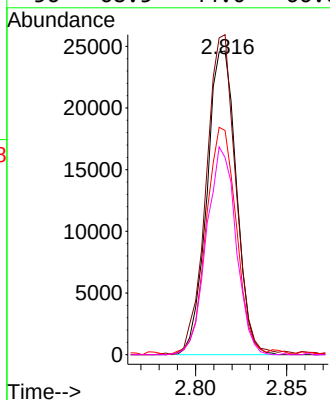
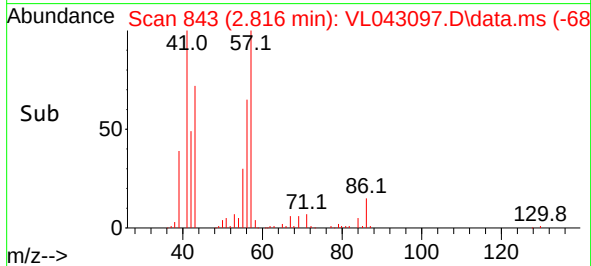
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6



Tgt Ion: 57 Resp: 27690  
Ion Ratio Lower Upper  
57 100  
41 106.5 76.1 114.1  
43 78.3 201.4 302.0  
56 68.5 44.0 66.0#

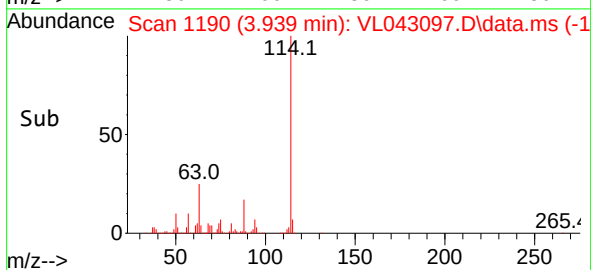
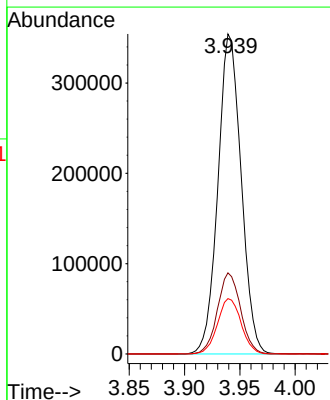
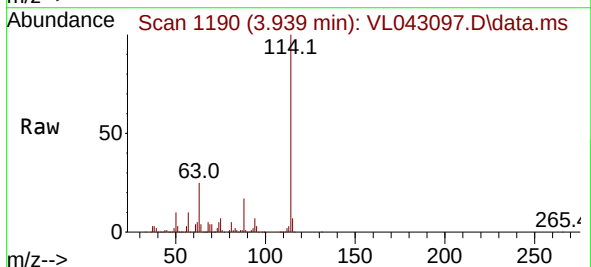
Manual Integrations  
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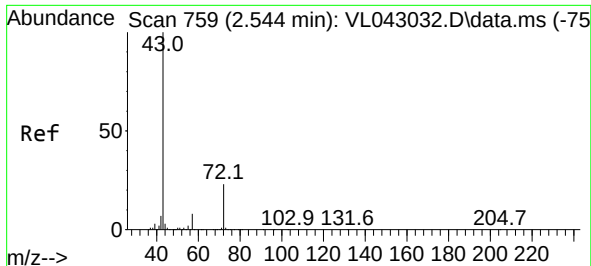
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.939 min Scan# 1190  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Tgt Ion:114 Resp: 516837  
Ion Ratio Lower Upper  
114 100  
63 25.3 19.4 29.2  
88 17.6 13.9 20.9





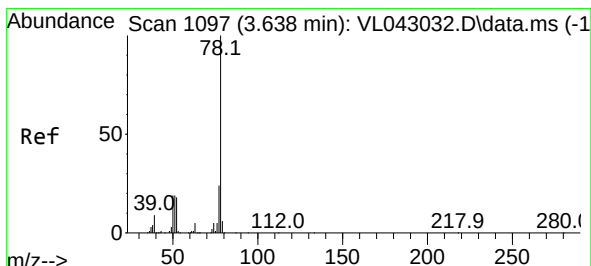
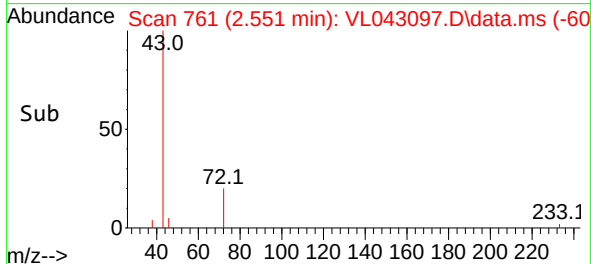
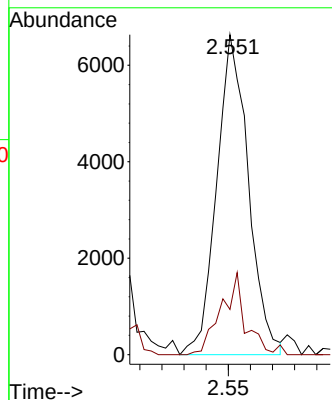
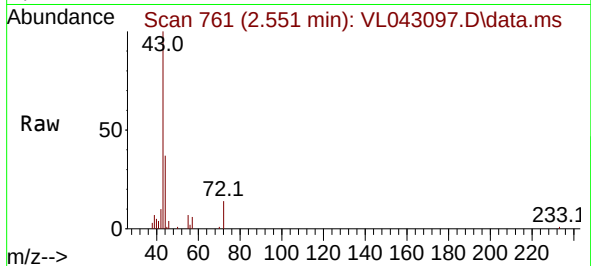
#34  
2-Butanone  
Concen: 0.188 ppbv  
RT: 2.551 min Scan# 761  
Delta R.T. 0.007 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6

Tgt Ion: 43 Resp: 6599  
Ion Ratio Lower Upper  
43 100  
72 20.1 18.4 27.6

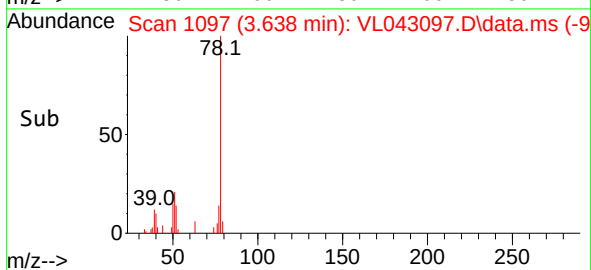
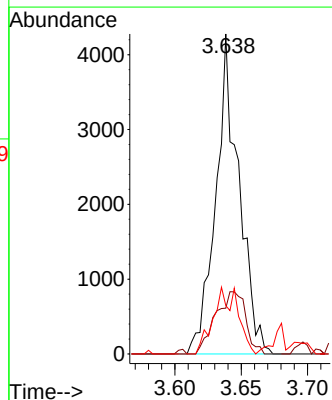
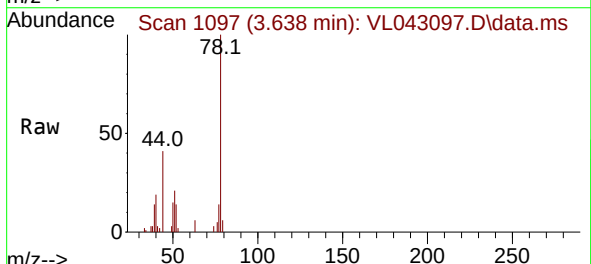
Manual Integrations  
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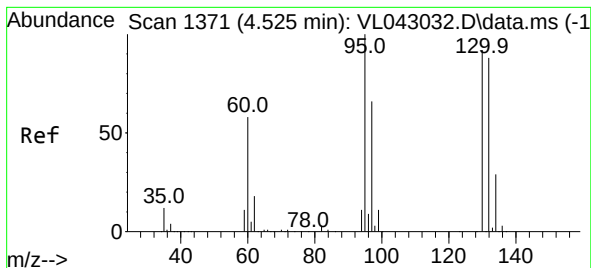


#36  
Benzene  
Concen: 0.105 ppbv m  
RT: 3.638 min Scan# 1097  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Tgt Ion: 78 Resp: 5173  
Ion Ratio Lower Upper  
78 100  
77 14.3 19.2 28.8#  
50 15.1 14.9 22.3







#38

Trichloroethene

Concen: 0.348 ppbv m

RT: 4.532 min Scan# 1371

Delta R.T. 0.007 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA\_L

ClientSampleId :

SV6

Tgt Ion:130 Resp: 7158

Ion Ratio Lower Upper

130 100

95 83.5 86.4 129.6

132 92.8 75.7 113.5

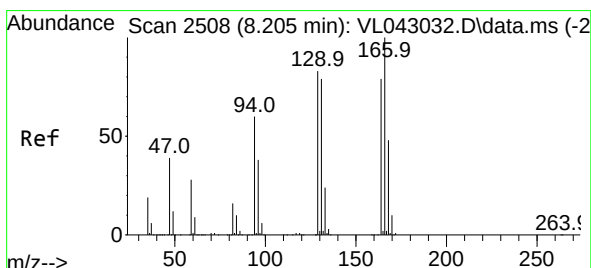
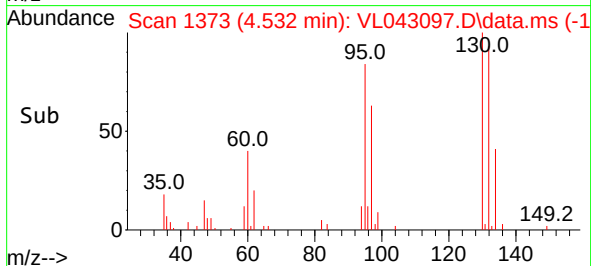
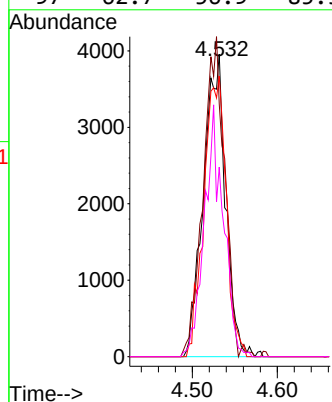
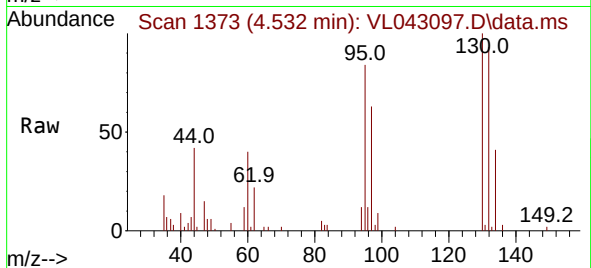
97 62.7 56.9 85.3

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 10/10/2025



#52

Tetrachloroethene

Concen: 1.674 ppbv

RT: 8.205 min Scan# 2508

Delta R.T. 0.000 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Tgt Ion:164 Resp: 30608

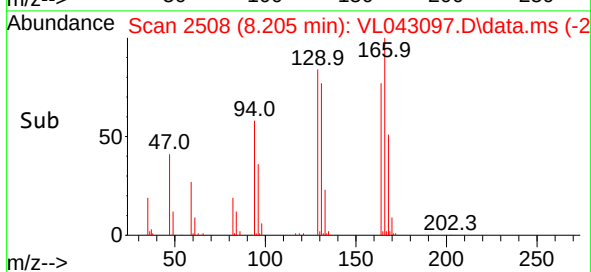
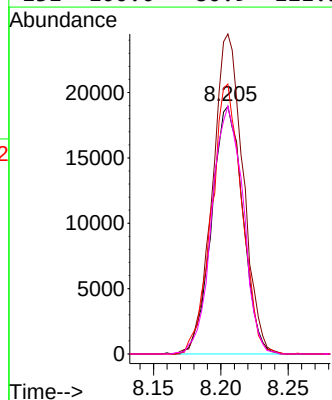
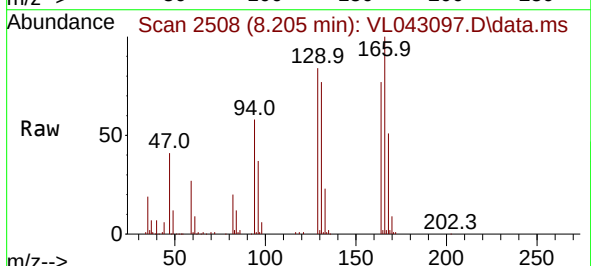
Ion Ratio Lower Upper

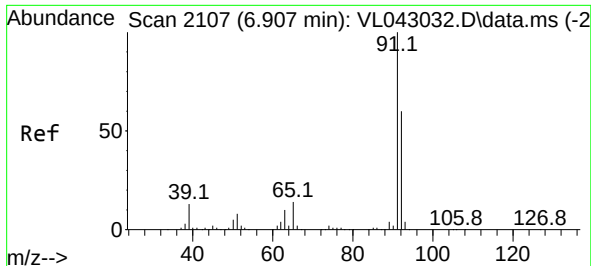
164 100

166 128.7 101.8 152.8

129 108.6 84.5 126.7

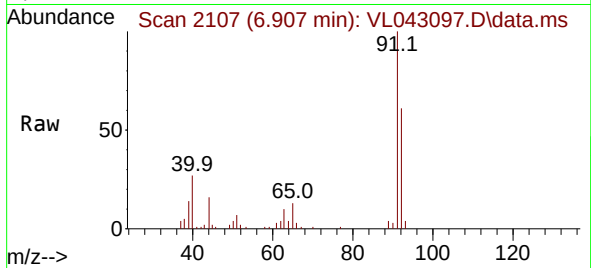
131 100.0 80.9 121.3





#53  
Toluene  
Concen: 0.340 ppbv  
RT: 6.907 min Scan# 2107  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

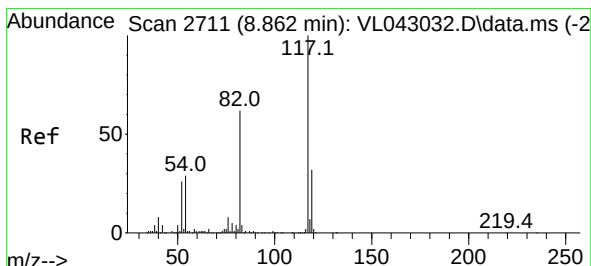
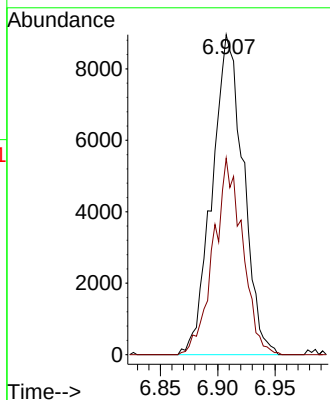
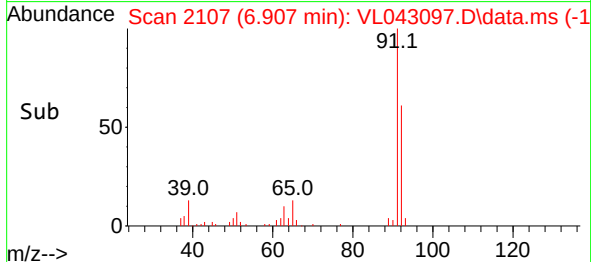
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6



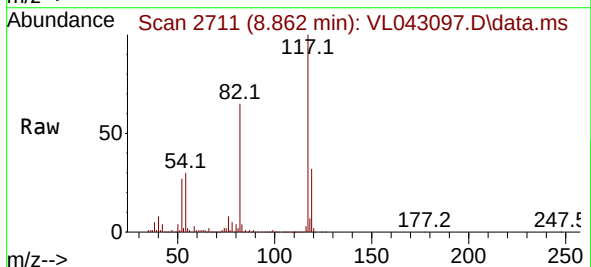
Tgt Ion: 91 Resp: 1695  
Ion Ratio Lower Upper  
91 100  
92 57.2 47.8 71.6

Manual Integrations  
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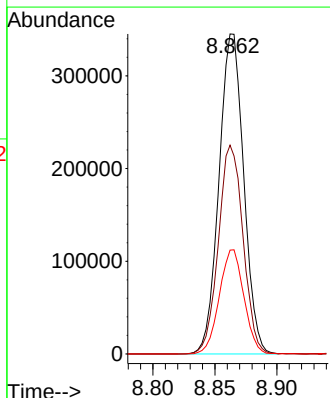
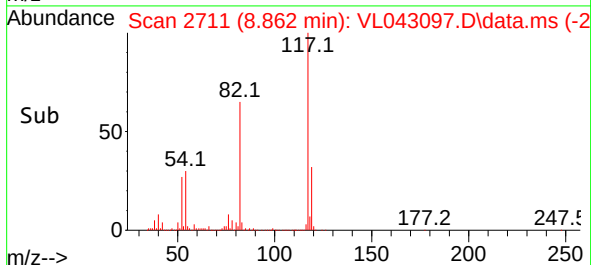
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025

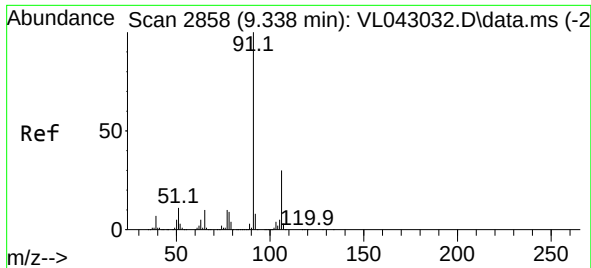


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.862 min Scan# 2711  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39



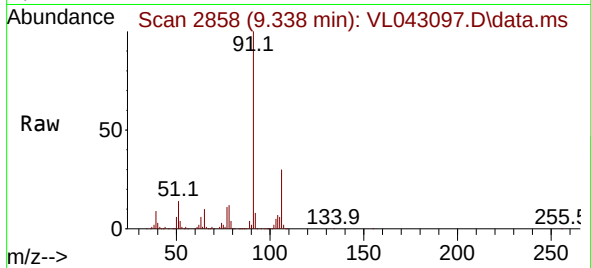
Tgt Ion:117 Resp: 480307  
Ion Ratio Lower Upper  
117 100  
82 65.1 53.0 79.6  
119 32.5 25.4 38.2





#58  
Ethyl Benzene  
Concen: 2.022 ppbv  
RT: 9.338 min Scan# 2858  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

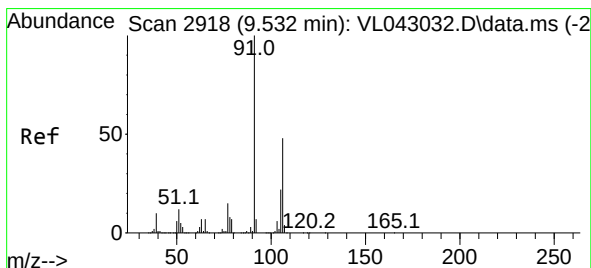
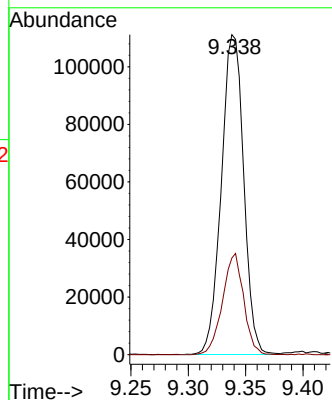
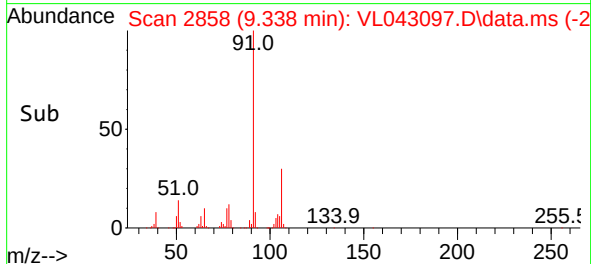
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6



Tgt Ion: 91 Resp: 150458  
Ion Ratio Lower Upper  
91 100  
106 30.2 24.1 36.1

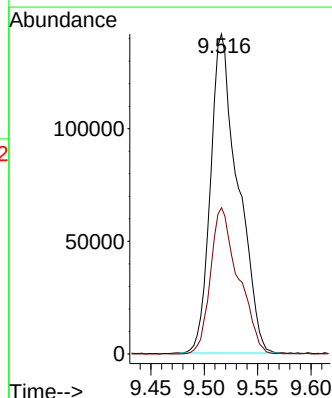
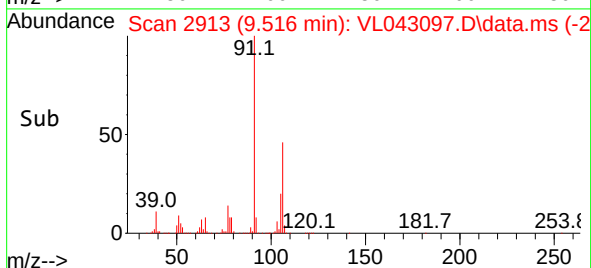
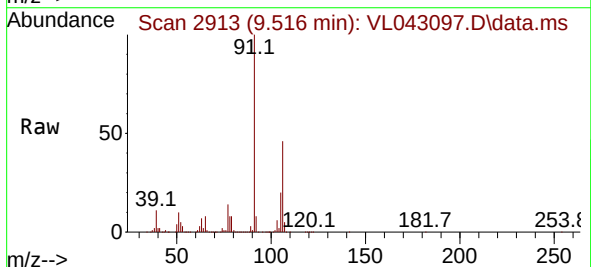
Manual Integrations  
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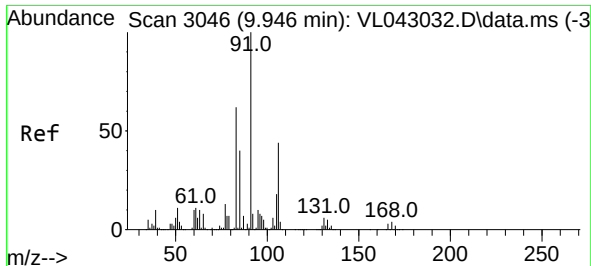
Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025



#59  
m/p-Xylene  
Concen: 4.039 ppbv  
RT: 9.516 min Scan# 2913  
Delta R.T. -0.016 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

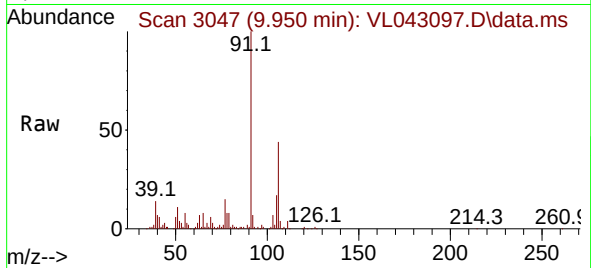
Tgt Ion: 91 Resp: 253469  
Ion Ratio Lower Upper  
91 100  
106 46.7 37.5 56.3





#60  
o-Xylene  
Concen: 0.766 ppbv  
RT: 9.950 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

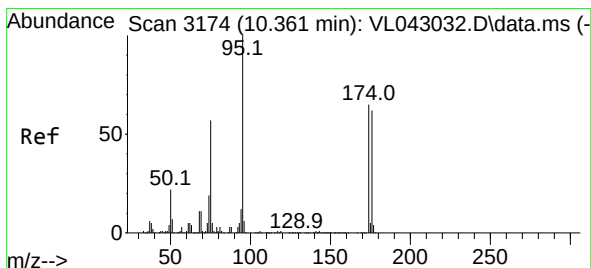
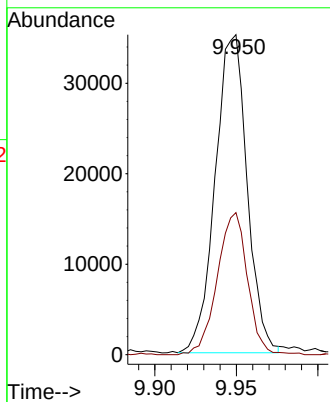
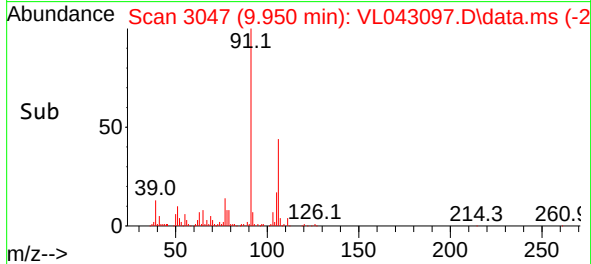
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV6



Tgt Ion: 91 Resp: 47870  
Ion Ratio Lower Upper  
91 100  
106 42.5 21.9 65.5

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025  
Supervised By :Mahesh Dadoda 10/10/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.796 ppbv  
RT: 10.361 min Scan# 3174  
Delta R.T. 0.000 min  
Lab File: VL043097.D  
Acq: 09 Oct 2025 20:39

Tgt Ion: 95 Resp: 408138  
Ion Ratio Lower Upper  
95 100  
174 64.8 52.3 78.5  
175 4.8 3.8 5.8

