

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090425\  
 Data File : VL042896.D  
 Acq On : 04 Sep 2025 18:41  
 Operator : SY/MD  
 Sample : Q3000-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:25:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.797  | 49    | 121887   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.972  | 114   | 317296   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.895  | 117   | 269956   | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95    | 212487   | 10.495   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 105.000% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.502  | 85    | 8904     | 0.498    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 1.479  | 51    | 20069    | 1.016    | ppbv   | 98       |
| 4) Chloromethane            | 1.538  | 50    | 3344     | 0.464    | ppbv   | 99       |
| 9) Propene                  | 1.486  | 41    | 12586    | 1.476    | ppbv   | 97       |
| 11) Trichlorofluoromethane  | 1.884  | 101   | 4432m    | 0.251    | ppbv   |          |
| 13) Ethanol                 | 1.725  | 45    | 12605    | 16.166   | ppbv   | 97       |
| 15) Acetone                 | 1.842  | 43    | 64844    | 4.022    | ppbv   | 95       |
| 19) Isopropyl Alcohol       | 1.894  | 45    | 20554    | 2.134    | ppbv # | 39       |
| 20) Methylene Chloride      | 2.068  | 84    | 4141     | 0.613    | ppbv # | 75       |
| 26) Hexane                  | 2.839  | 57    | 9357     | 0.519    | ppbv # | 55       |
| 34) 2-Butanone              | 2.570  | 43    | 7209     | 0.336    | ppbv   | 96       |
| 35) Carbon Tetrachloride    | 3.777  | 117   | 2043m    | 0.093    | ppbv   |          |
| 36) Benzene                 | 3.671  | 78    | 11374    | 0.374    | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane  | 4.661  | 57    | 42566    | 0.825    | ppbv # | 85       |
| 53) Toluene                 | 6.953  | 91    | 72080    | 1.995    | ppbv   | 100      |
| 58) Ethyl Benzene           | 9.370  | 91    | 6883     | 0.144    | ppbv   | 92       |
| 59) m/p-Xylene              | 9.545  | 91    | 16076m   | 0.431    | ppbv   |          |
| 60) o-Xylene                | 9.972  | 91    | 6702m    | 0.178    | ppbv   |          |
| 61) Styrene                 | 9.878  | 104   | 4364     | 0.248    | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene  | 11.549 | 105   | 6066     | 0.143    | ppbv # | 63       |
| -----                       |        |       |          |          |        |          |

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

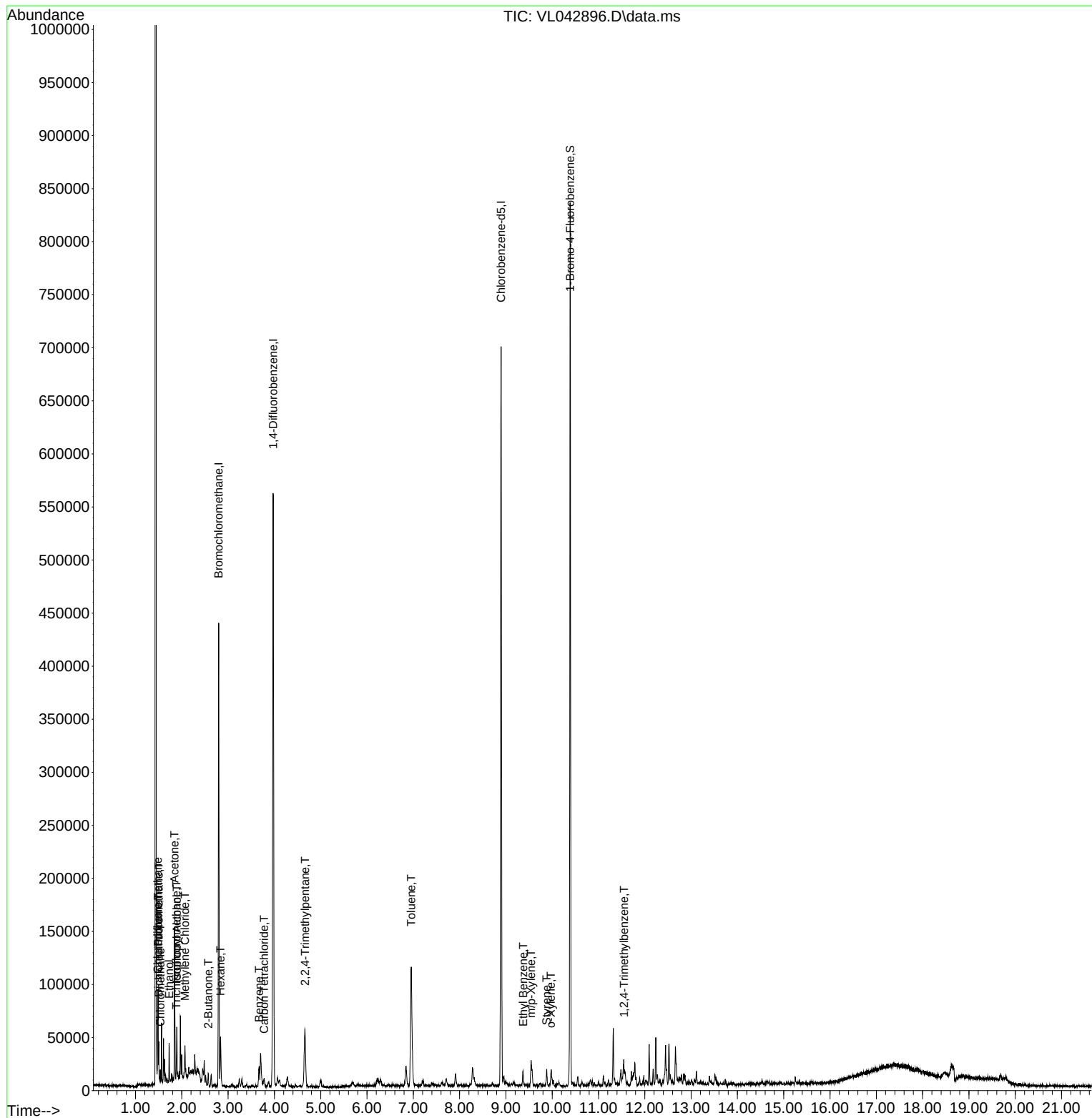
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090425\  
Data File : VL042896.D  
Acq On : 04 Sep 2025 18:41  
Operator : SY/MD  
Sample : Q3000-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

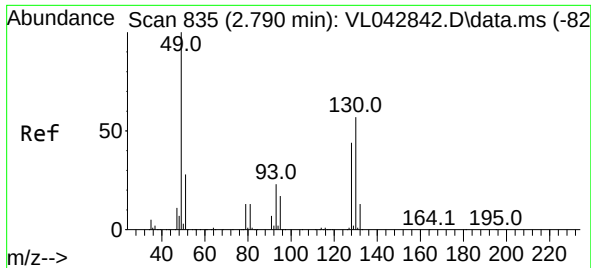
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Quant Time: Sep 05 01:25:13 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Aug 14 02:12:54 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

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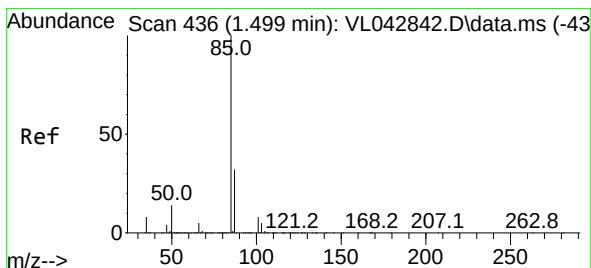
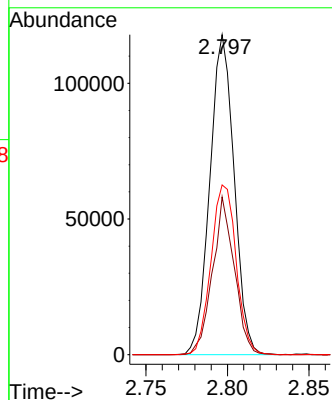
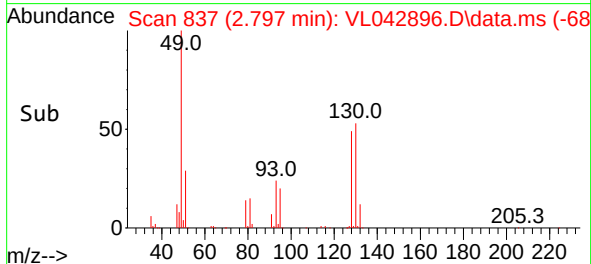
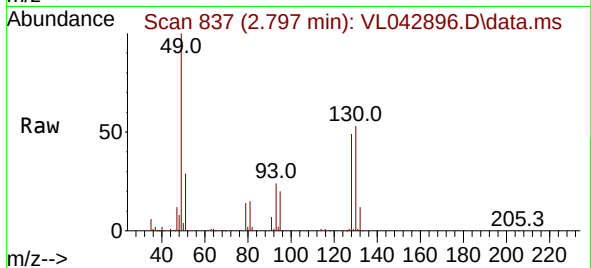
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.797 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 49 Resp: 12188  
Ion Ratio Lower Upper  
49 100  
128 44.5 23.7 71.1  
130 55.3 30.6 91.6

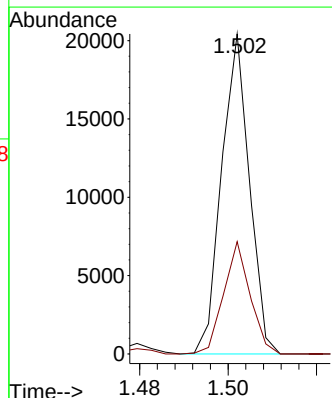
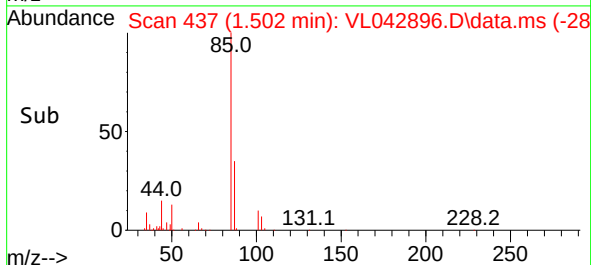
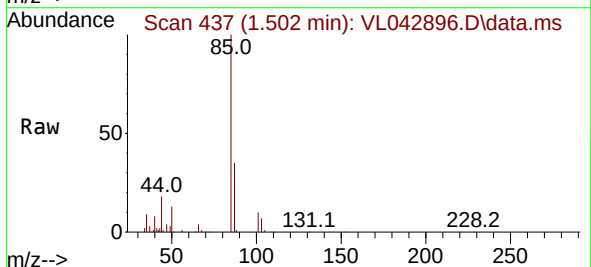
Manual Integrations  
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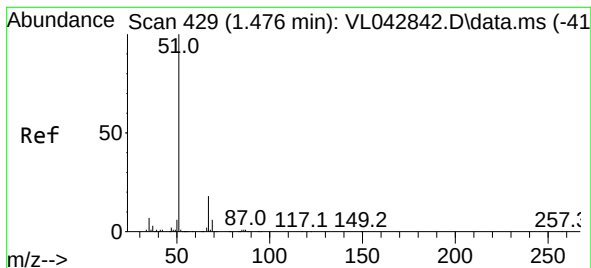
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 0.498 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Tgt Ion: 85 Resp: 8904  
Ion Ratio Lower Upper  
85 100  
87 35.1 25.3 37.9





#3

Chlorodifluoromethane

Concen: 1.016 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042896.D

Acq: 04 Sep 2025 18:41

Instrument :

MSVOA\_L

ClientSampleId :

OA1

Tgt Ion: 51 Resp: 20069

Ion Ratio Lower Upper

51 100

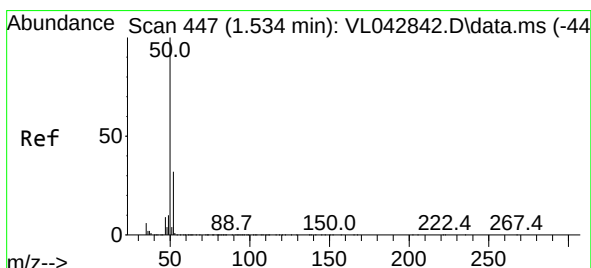
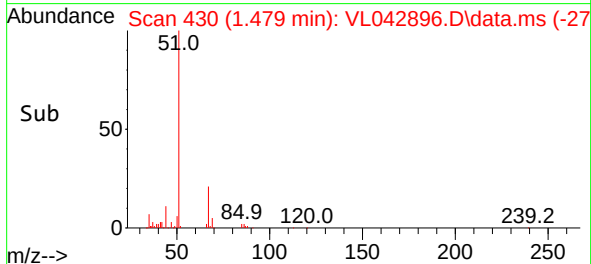
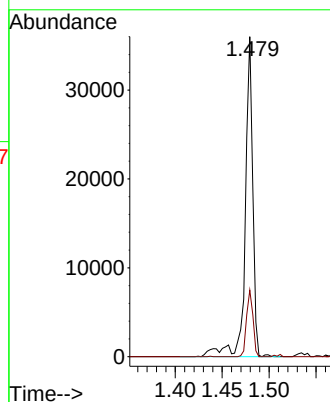
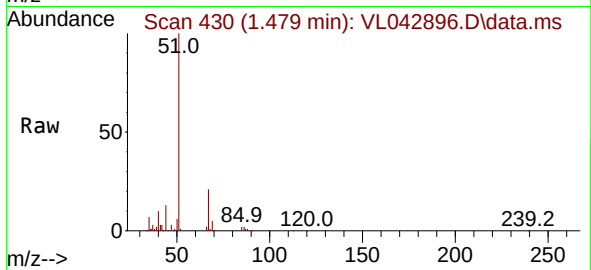
67 17.7 14.9 22.3

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Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#4

Chloromethane

Concen: 0.464 ppbv

RT: 1.538 min Scan# 448

Delta R.T. 0.003 min

Lab File: VL042896.D

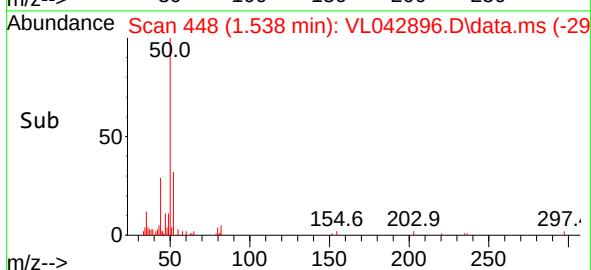
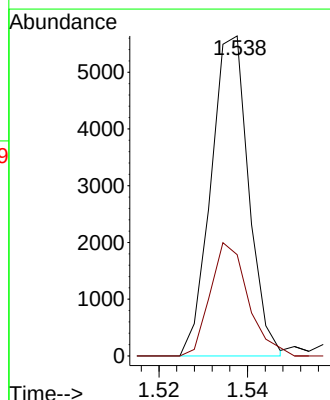
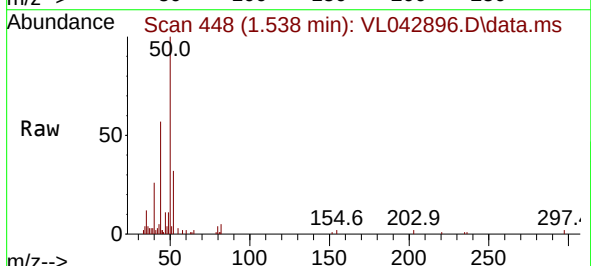
Acq: 04 Sep 2025 18:41

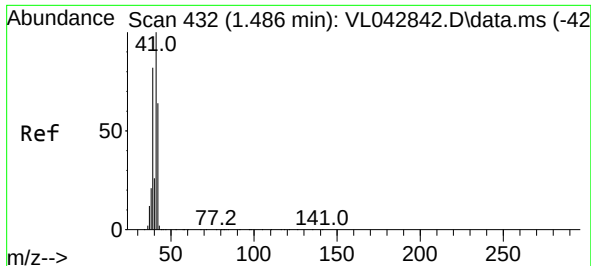
Tgt Ion: 50 Resp: 3344

Ion Ratio Lower Upper

50 100

52 31.7 25.9 38.9





#9

Propene

Concen: 1.476 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042896.D

Acq: 04 Sep 2025 18:41

Instrument :

MSVOA\_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 12586

Ion Ratio Lower Upper

41 100

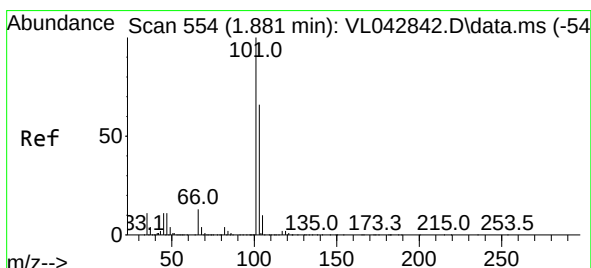
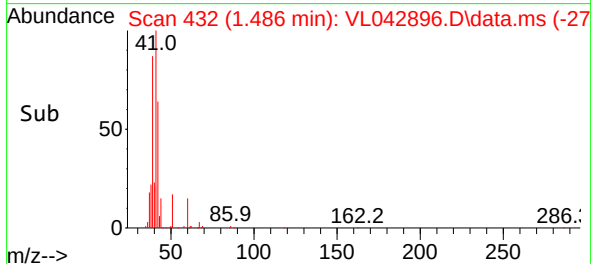
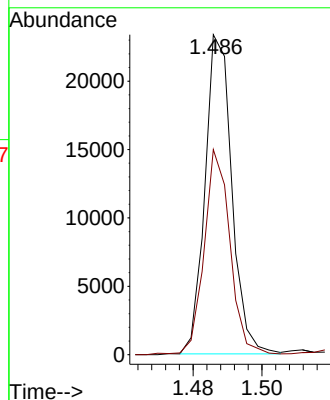
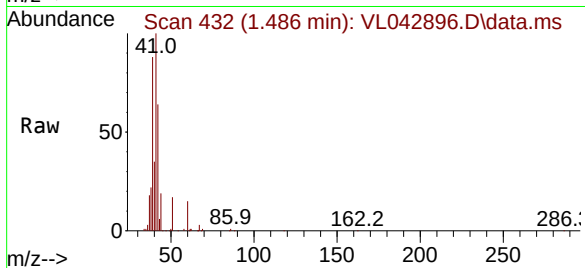
42 63.5 53.0 79.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#11

Trichlorofluoromethane

Concen: 0.251 ppbv m

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL042896.D

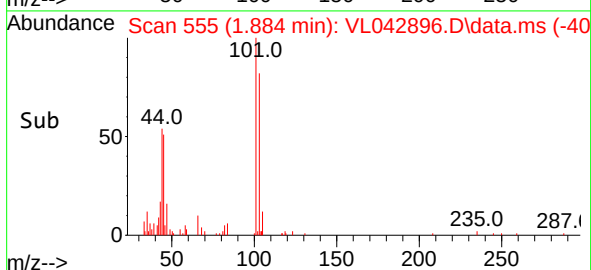
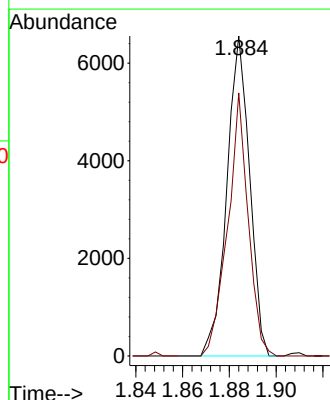
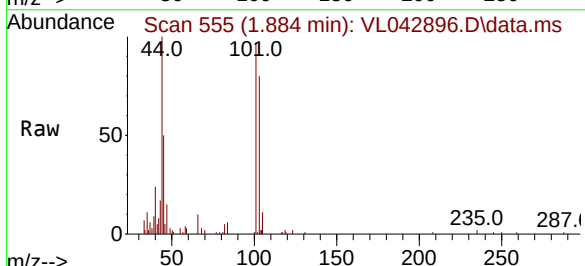
Acq: 04 Sep 2025 18:41

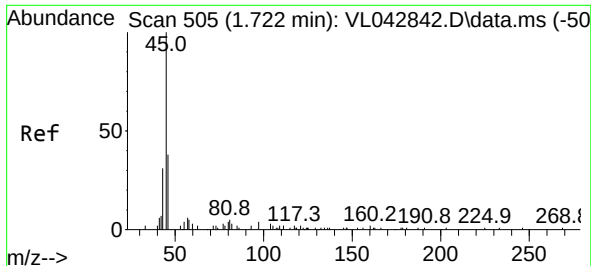
Tgt Ion:101 Resp: 4432

Ion Ratio Lower Upper

101 100

103 82.2 52.5 78.7#





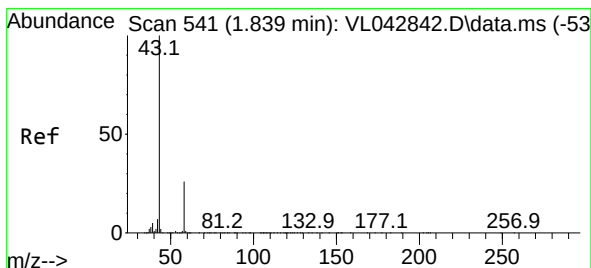
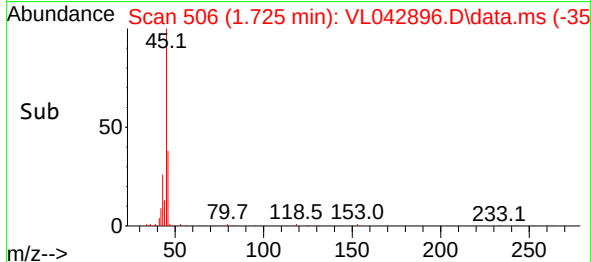
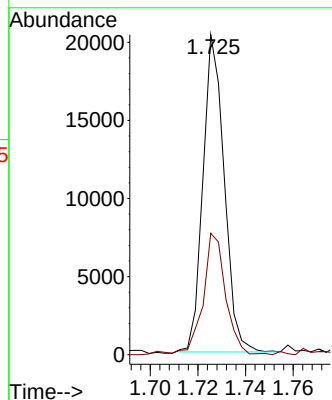
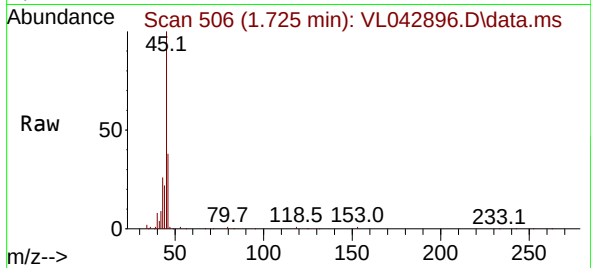
#13  
Ethanol  
Concen: 16.166 ppbv  
RT: 1.725 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 45 Resp: 1260  
Ion Ratio Lower Upper  
45 100  
46 41.5 17.5 69.9

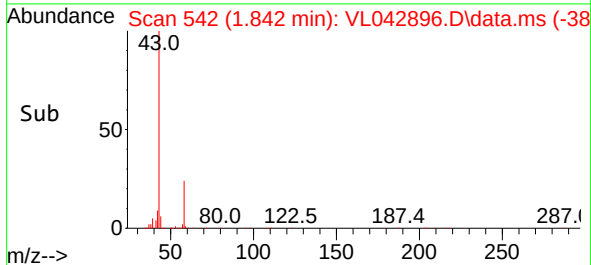
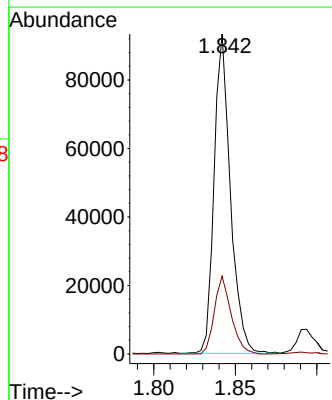
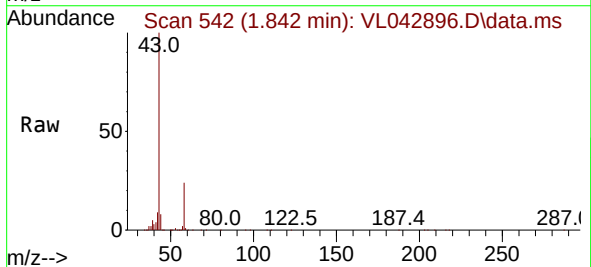
Manual Integrations  
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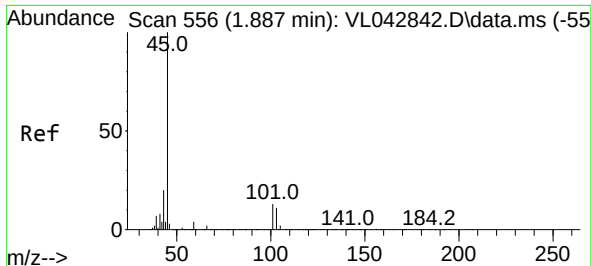
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#15  
Acetone  
Concen: 4.022 ppbv  
RT: 1.842 min Scan# 542  
Delta R.T. 0.003 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Tgt Ion: 43 Resp: 64844  
Ion Ratio Lower Upper  
43 100  
58 25.1 22.4 33.6





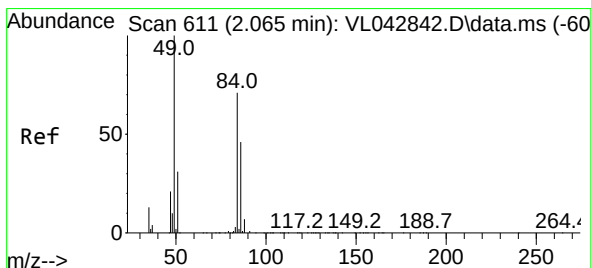
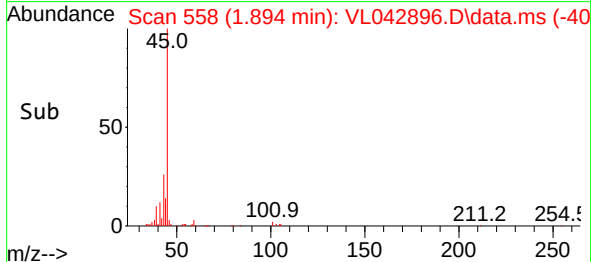
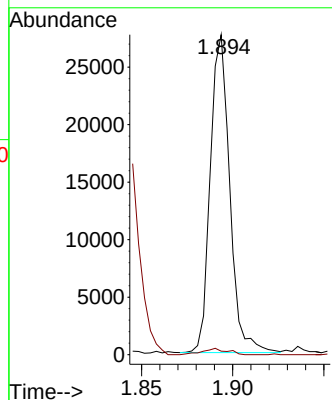
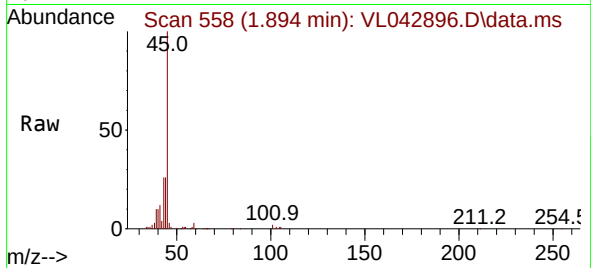
#19  
Isopropyl Alcohol  
Concen: 2.134 ppbv  
RT: 1.894 min Scan# 558  
Delta R.T. 0.006 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 45 Resp: 20554  
Ion Ratio Lower Upper  
45 100  
58 79.3 32.7 49.1

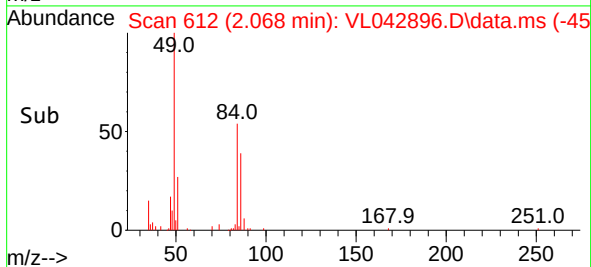
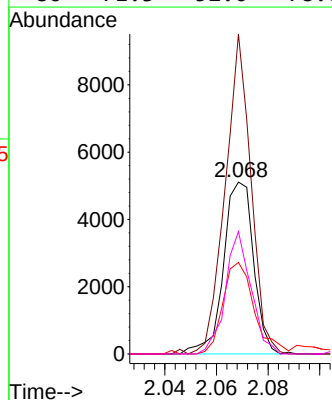
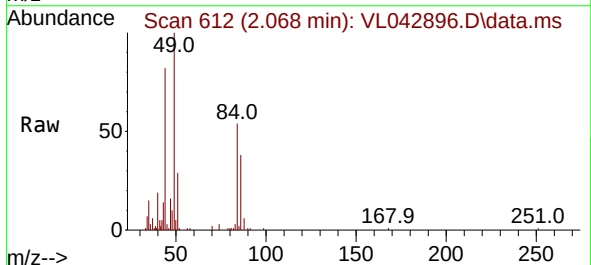
Manual Integrations  
APPROVED

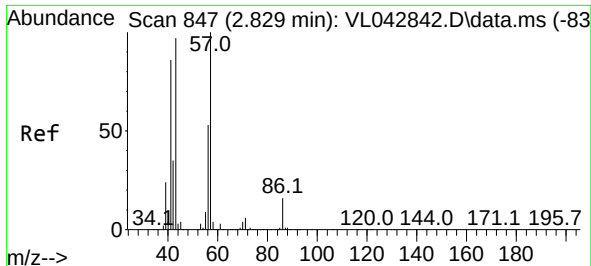
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#20  
Methylene Chloride  
Concen: 0.613 ppbv  
RT: 2.068 min Scan# 612  
Delta R.T. 0.003 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

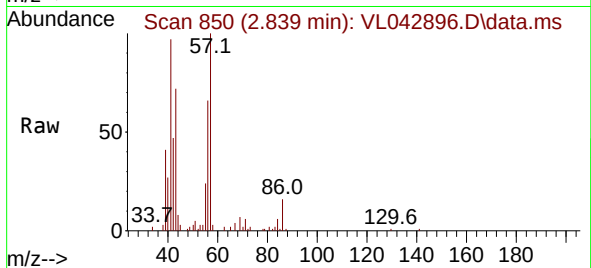
Tgt Ion: 84 Resp: 4141  
Ion Ratio Lower Upper  
84 100  
49 185.0 112.3 168.5#  
51 53.3 36.0 54.0  
86 71.3 52.0 78.0





#26  
Hexane  
Concen: 0.519 ppbv  
RT: 2.839 min Scan# 81  
Delta R.T. 0.010 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

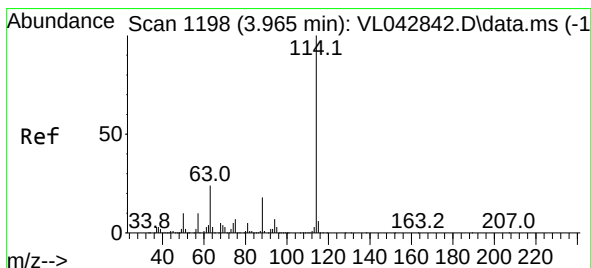
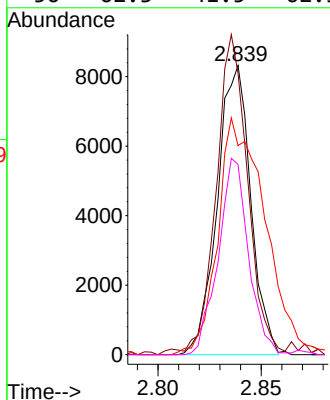
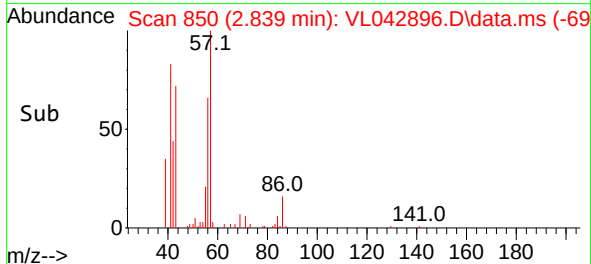
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



Tgt Ion: 57 Resp: 935  
Ion Ratio Lower Upper  
57 100  
41 109.0 68.6 103.0  
43 115.8 168.5 252.7  
56 62.3 41.5 62.3

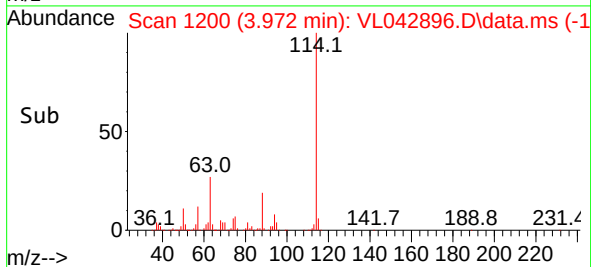
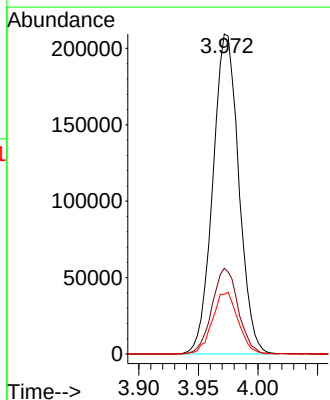
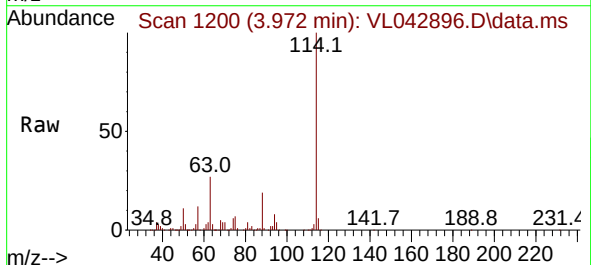
Manual Integrations  
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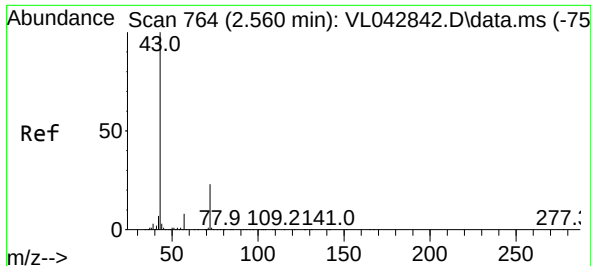


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.972 min Scan# 1200  
Delta R.T. 0.006 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Tgt Ion:114 Resp: 317296  
Ion Ratio Lower Upper  
114 100  
63 27.0 19.7 29.5  
88 19.1 14.4 21.6







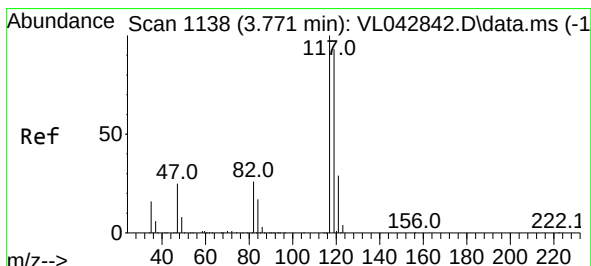
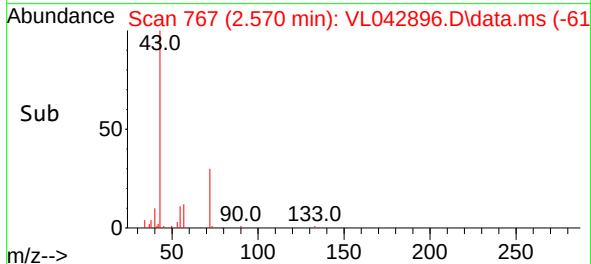
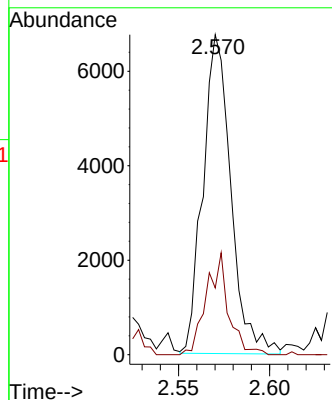
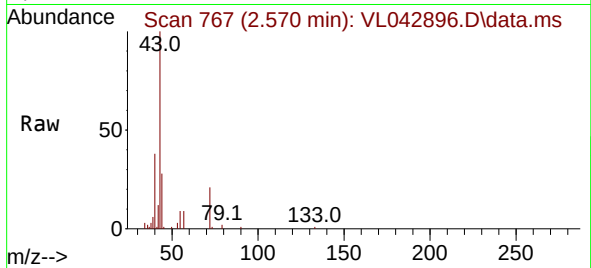
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2-Butanone  
Concen: 0.336 ppbv  
RT: 2.570 min Scan# 710  
Delta R.T. 0.010 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 43 Resp: 7209  
Ion Ratio Lower Upper  
43 100  
72 25.3 18.6 28.0

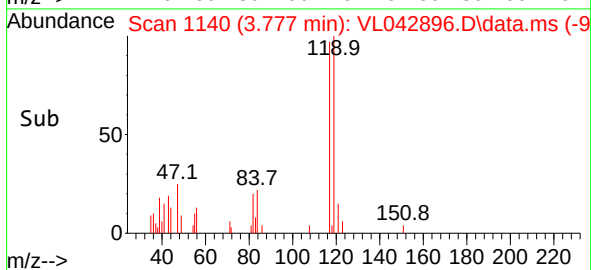
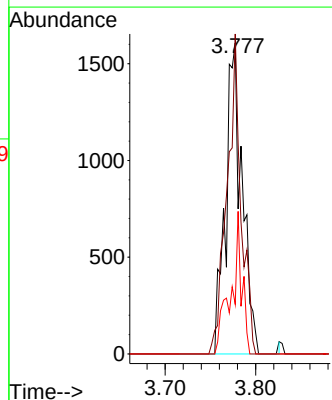
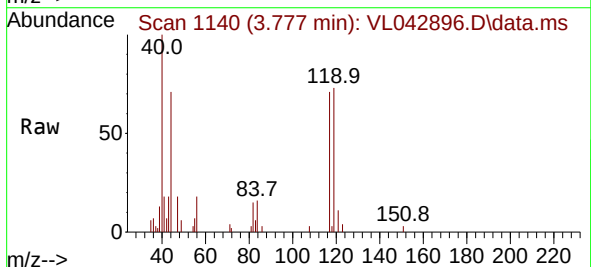
Manual Integrations  
APPROVED

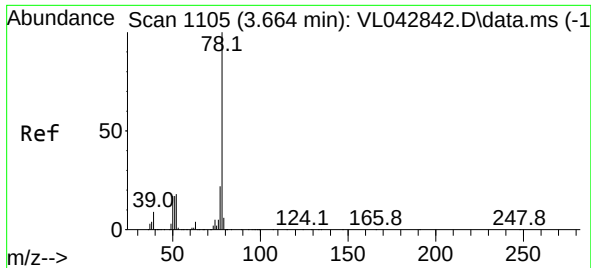
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#35  
Carbon Tetrachloride  
Concen: 0.093 ppbv m  
RT: 3.777 min Scan# 1140  
Delta R.T. 0.006 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Tgt Ion:117 Resp: 2043  
Ion Ratio Lower Upper  
117 100  
119 102.9 74.7 112.1  
121 15.9 23.2 34.8#





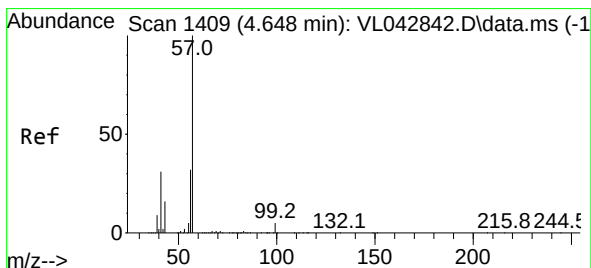
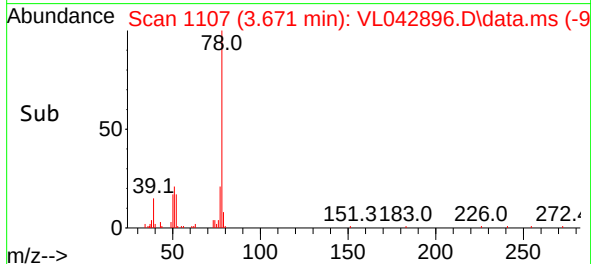
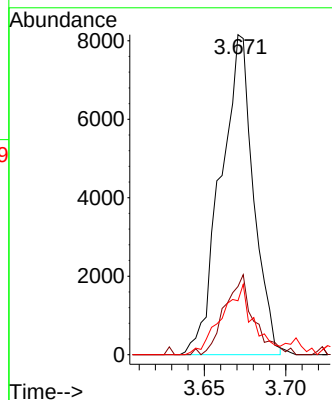
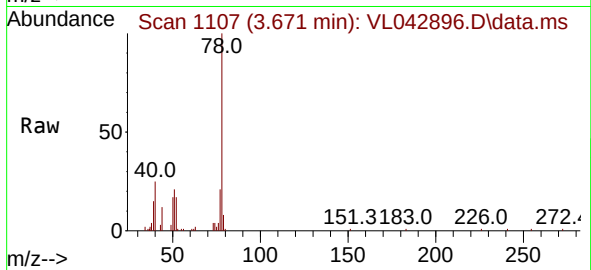
#36  
Benzene  
Concen: 0.374 ppbv  
RT: 3.671 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 78 Resp: 11374  
Ion Ratio Lower Upper  
78 100  
77 21.3 17.7 26.5  
50 16.8 13.9 20.9

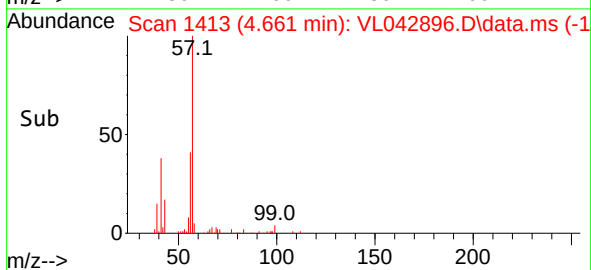
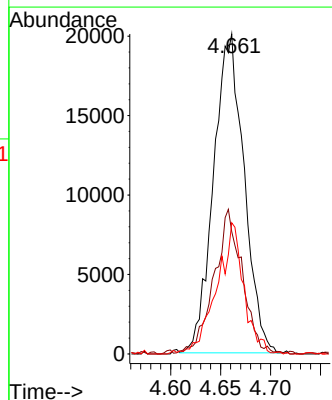
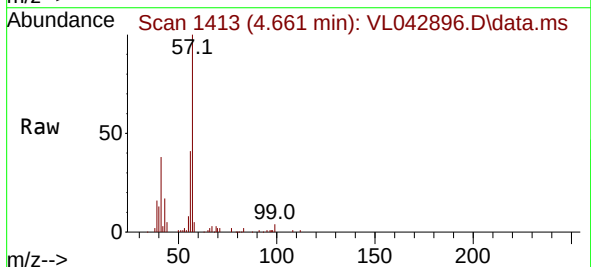
Manual Integrations  
APPROVED

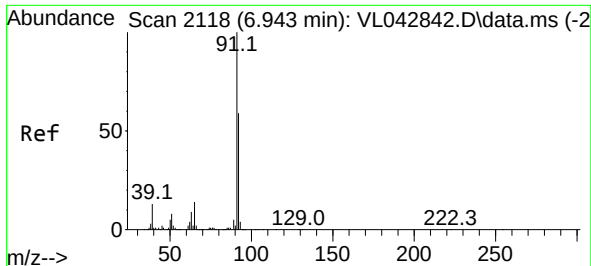
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#44  
2,2,4-Trimethylpentane  
Concen: 0.825 ppbv  
RT: 4.661 min Scan# 1413  
Delta R.T. 0.013 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Tgt Ion: 57 Resp: 42566  
Ion Ratio Lower Upper  
57 100  
41 42.4 24.8 37.2#  
56 36.6 25.5 38.3





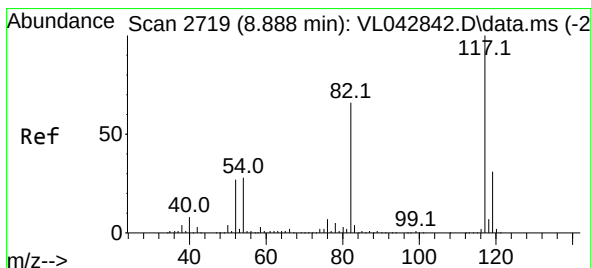
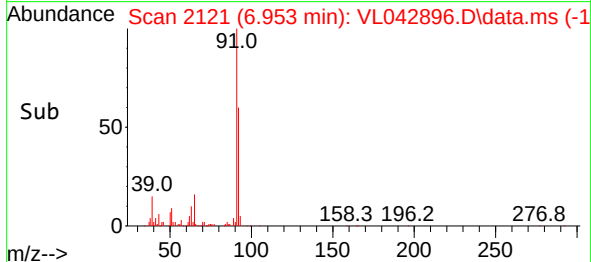
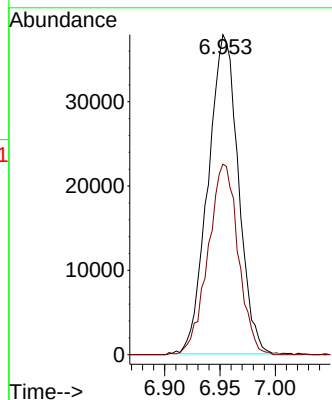
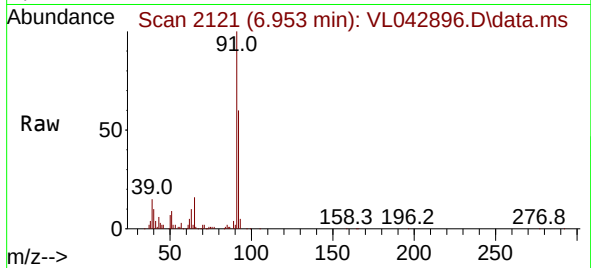
#53  
Toluene  
Concen: 1.995 ppbv  
RT: 6.953 min Scan# 2118  
Delta R.T. 0.010 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Tgt Ion: 91 Resp: 72080  
Ion Ratio Lower Upper  
91 100  
92 59.5 47.8 71.6

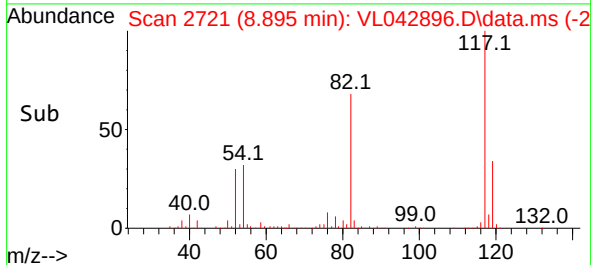
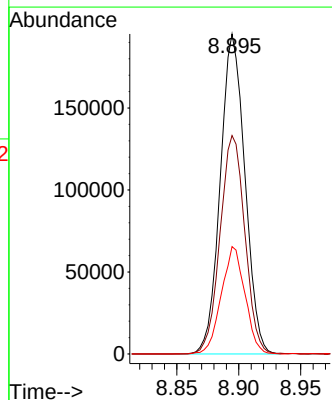
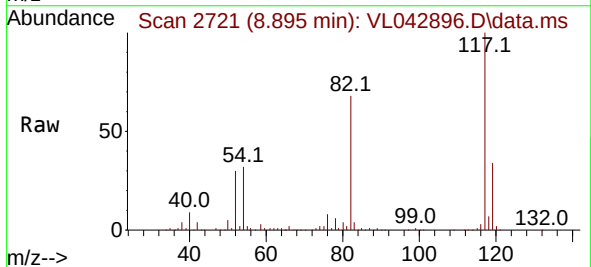
Manual Integrations  
APPROVED

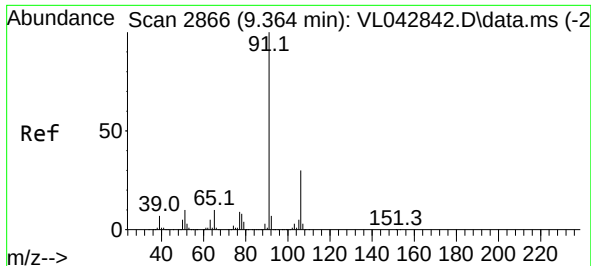
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.895 min Scan# 2721  
Delta R.T. 0.006 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

Tgt Ion:117 Resp: 269956  
Ion Ratio Lower Upper  
117 100  
82 68.8 54.6 81.8  
119 32.3 25.9 38.9





#58

Ethyl Benzene

Concen: 0.144 ppbv

RT: 9.370 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042896.D

Acq: 04 Sep 2025 18:41

Instrument :

MSVOA\_L

ClientSampleId :

OA1

Tgt Ion: 91 Resp: 688

Ion Ratio Lower Upper

91 100

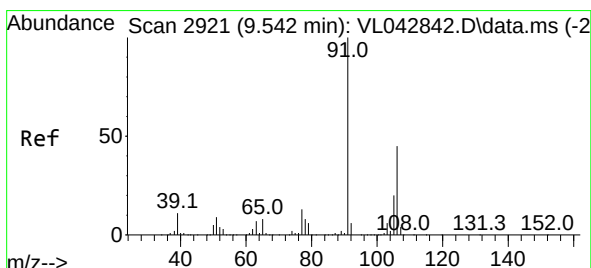
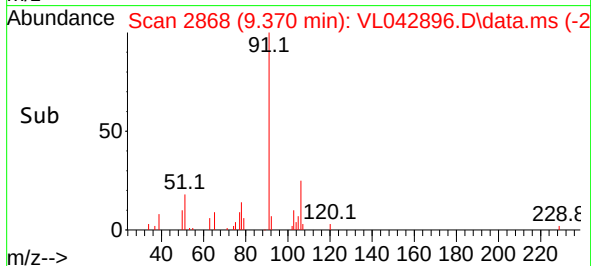
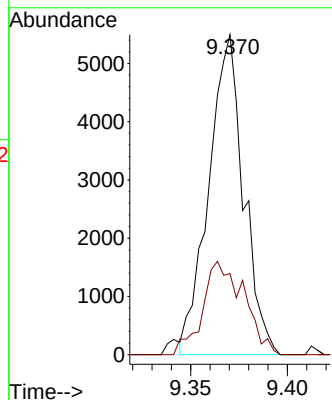
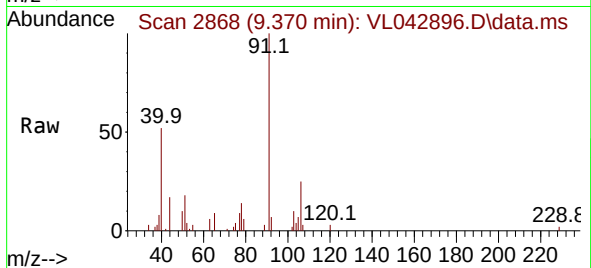
106 25.3 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#59

m/p-Xylene

Concen: 0.431 ppbv m

RT: 9.545 min Scan# 2922

Delta R.T. 0.003 min

Lab File: VL042896.D

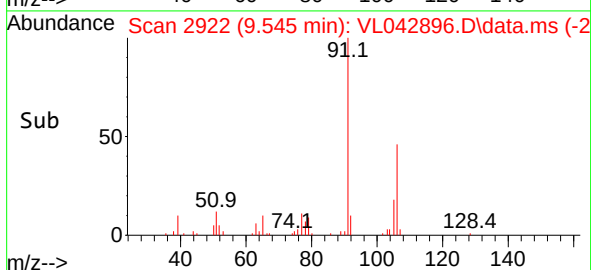
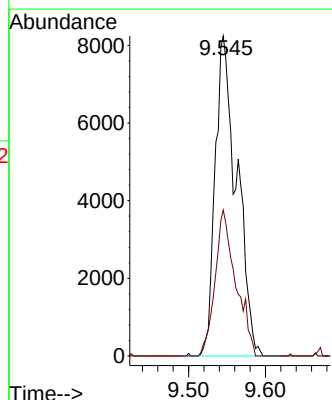
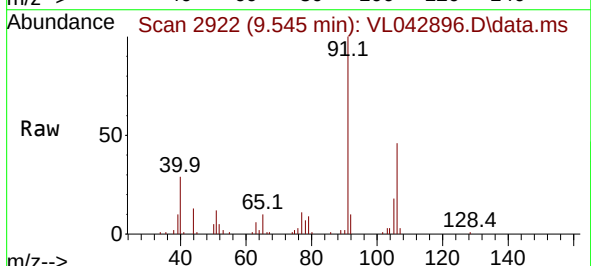
Acq: 04 Sep 2025 18:41

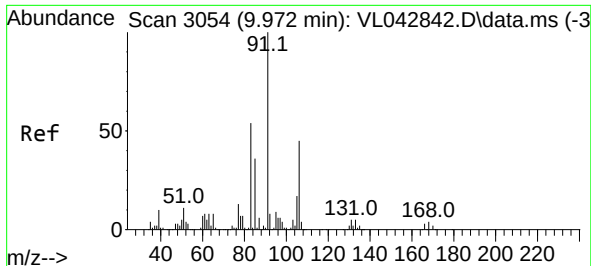
Tgt Ion: 91 Resp: 16076

Ion Ratio Lower Upper

91 100

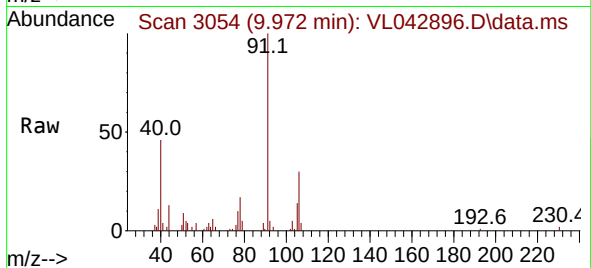
106 44.0 0.0 0.0#





#60  
o-Xylene  
Concen: 0.178 ppbv m  
RT: 9.972 min Scan# 3054  
Delta R.T. -0.000 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

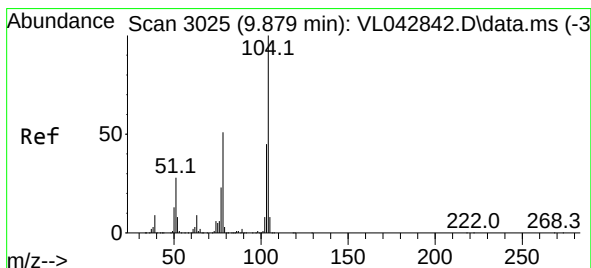
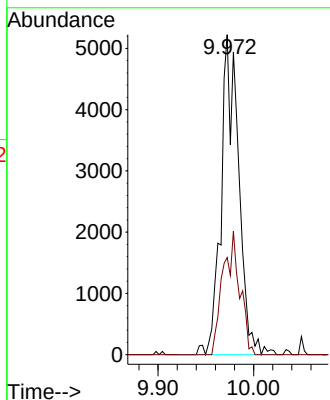
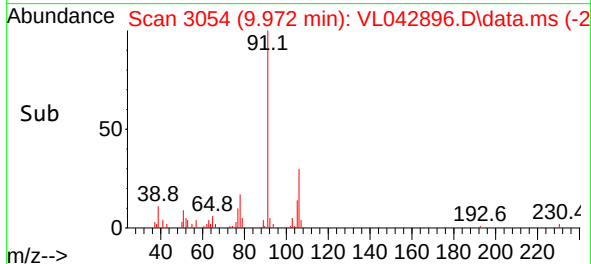
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



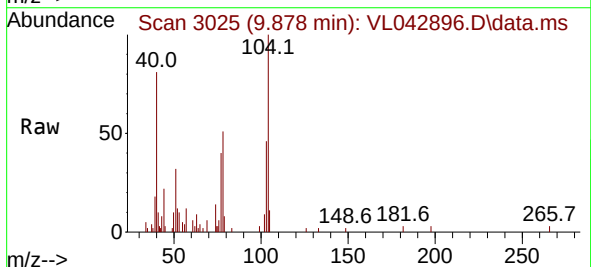
Tgt Ion: 91 Resp: 6702  
Ion Ratio Lower Upper  
91 100  
106 105.5 21.8 65.4

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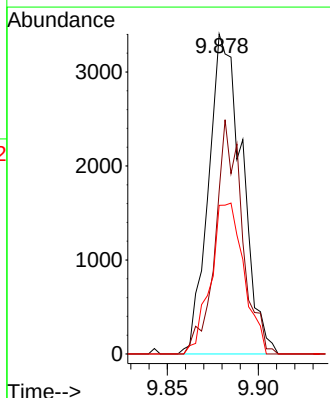
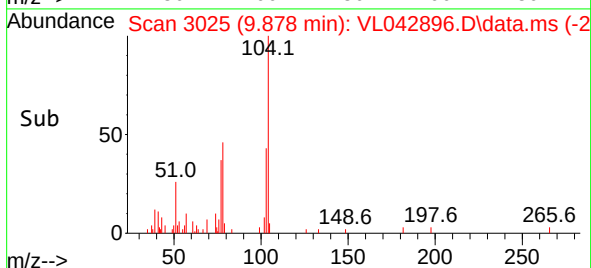
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

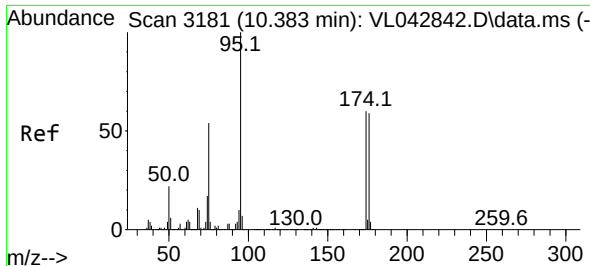


#61  
Styrene  
Concen: 0.248 ppbv  
RT: 9.878 min Scan# 3025  
Delta R.T. -0.000 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41



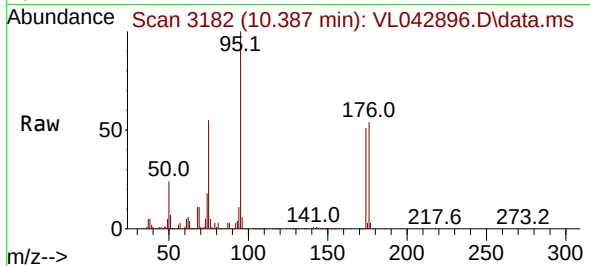
Tgt Ion:104 Resp: 4364  
Ion Ratio Lower Upper  
104 100  
78 58.7 40.6 61.0  
103 46.4 37.7 56.5





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.495 ppbv  
RT: 10.387 min Scan# 3181  
Delta R.T. 0.003 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41

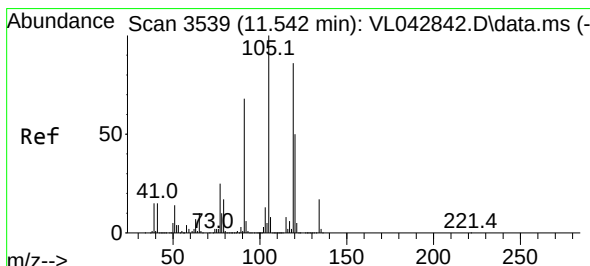
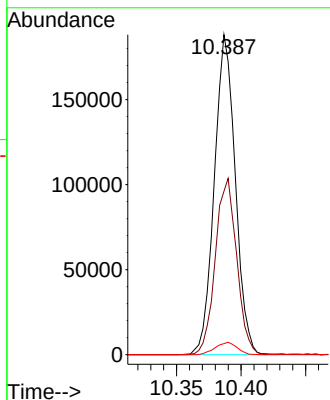
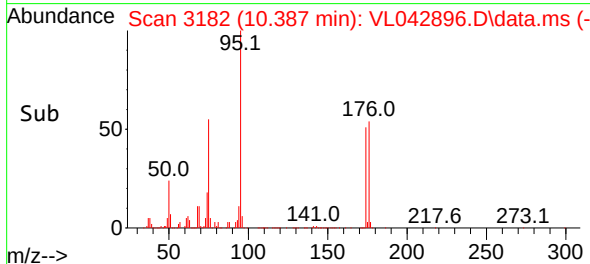
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



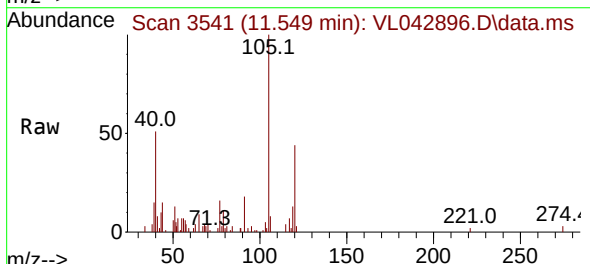
Tgt Ion: 95 Resp: 21248  
Ion Ratio Lower Upper  
95 100  
174 56.3 48.4 72.6  
175 4.0 3.8 5.8

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 0.143 ppbv  
RT: 11.549 min Scan# 3541  
Delta R.T. 0.006 min  
Lab File: VL042896.D  
Acq: 04 Sep 2025 18:41



Tgt Ion:105 Resp: 6066  
Ion Ratio Lower Upper  
105 100  
120 44.4 39.8 59.6  
91 16.4 54.2 81.4#  
77 14.1 19.8 29.6#

