

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042377.D  
 Acq On : 18 Apr 2025 02:01  
 Operator : SY/MD  
 Sample : Q1726-02DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B2-6-03312025DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 04:40:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.784  | 49    | 99418    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.955  | 114   | 272592   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.878  | 117   | 237645   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95    | 202954   | 10.393   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 103.900% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 4) Chloromethane            | 1.531  | 50    | 2346     | 0.337    | ppbv   | 99       |
| 9) Propene                  | 1.486  | 41    | 1509m    | 0.198    | ppbv   |          |
| 10) Heptane                 | 4.975  | 43    | 8029m    | 0.375    | ppbv   |          |
| 13) Ethanol                 | 1.719  | 45    | 17233    | 14.234   | ppbv   | 84       |
| 15) Acetone                 | 1.832  | 43    | 269648   | 16.568   | ppbv   | 98       |
| 19) Isopropyl Alcohol       | 1.884  | 45    | 13751    | 1.521    | ppbv # | 1        |
| 30) Cyclohexane             | 3.852  | 84    | 1417m    | 0.108    | ppbv   |          |
| 34) 2-Butanone              | 2.560  | 43    | 2582     | 0.120    | ppbv # | 88       |
| 36) Benzene                 | 3.651  | 78    | 3607m    | 0.123    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane  | 4.635  | 57    | 39733    | 0.782    | ppbv # | 90       |
| 53) Toluene                 | 6.927  | 91    | 79886    | 2.264    | ppbv   | 100      |
| 58) Ethyl Benzene           | 9.348  | 91    | 21503    | 0.457    | ppbv   | 98       |
| 59) m/p-Xylene              | 9.529  | 91    | 64193m   | 1.692    | ppbv   |          |
| 60) o-Xylene                | 9.959  | 91    | 25512    | 0.668    | ppbv   | 97       |
| 64) n-propylbenzene         | 10.982 | 120   | 2250m    | 0.160    | ppbv   |          |
| 72) 4-Ethyltoluene          | 11.121 | 105   | 10921    | 0.234    | ppbv # | 64       |
| 73) 1,3,5-Trimethylbenzene  | 11.202 | 105   | 11199    | 0.272    | ppbv # | 84       |
| 74) 1,2,4-Trimethylbenzene  | 11.532 | 105   | 41057    | 0.853    | ppbv # | 66       |
| -----                       |        |       |          |          |        |          |

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

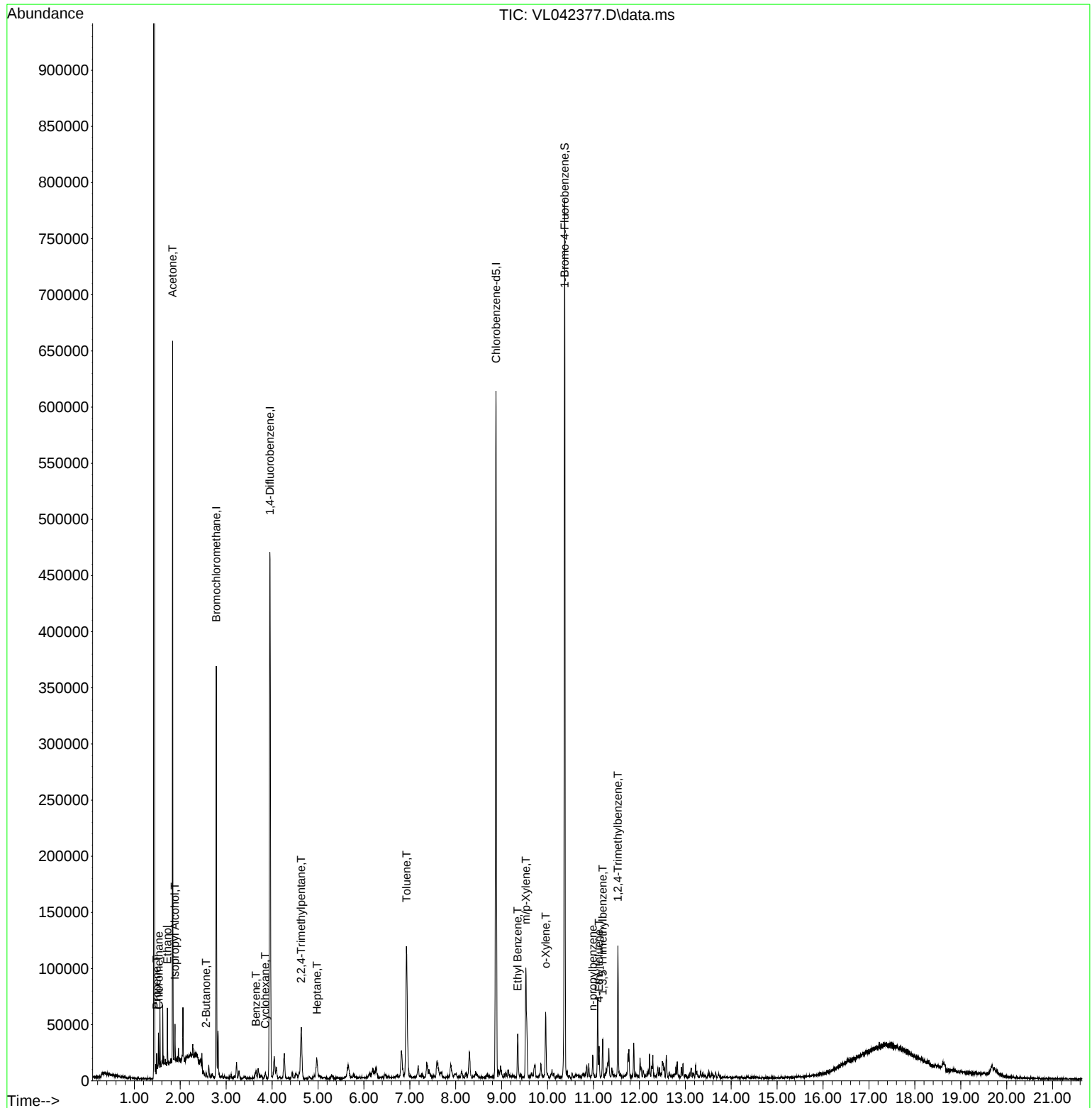
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042377.D  
Acq On : 18 Apr 2025 02:01  
Operator : SY/MD  
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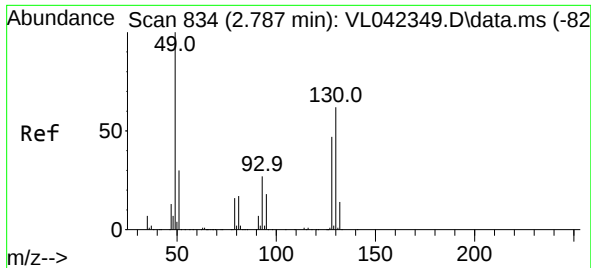
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL

Quant Time: Apr 18 04:40:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

Manual Integrations  
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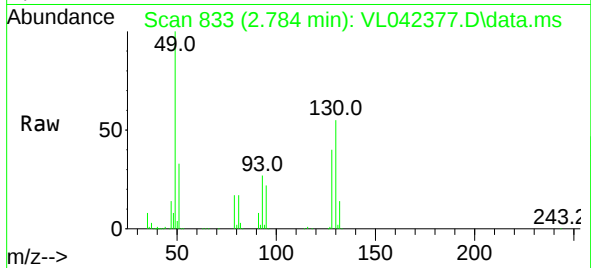
Reviewed By : Semsettin Yesilyurt 04/18/2025  
Supervised By : Mahesh Dadoda 04/18/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

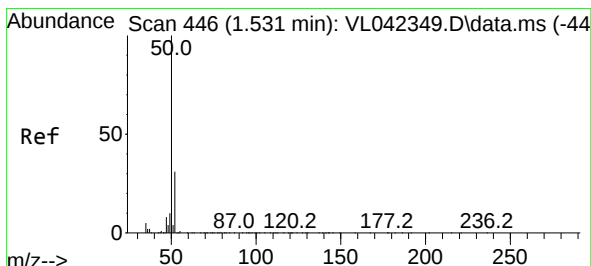
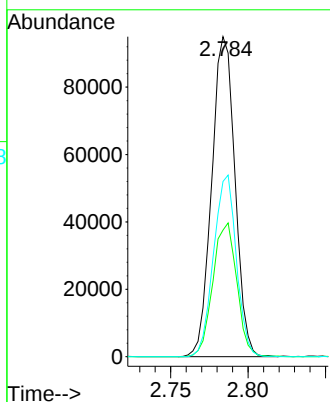
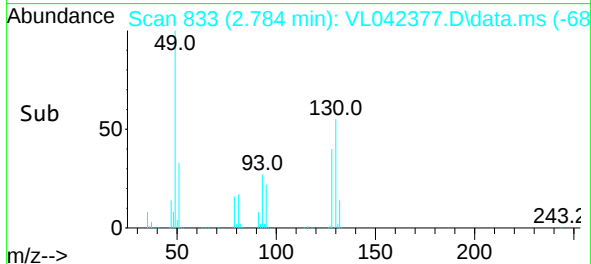
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL



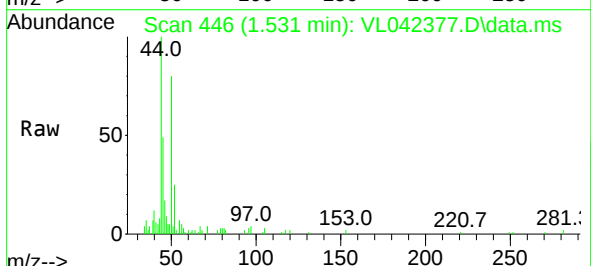
Tgt Ion: 49 Resp: 99418  
Ion Ratio Lower Upper  
49 100  
128 42.9 22.8 68.4  
130 55.5 29.3 88.0

Manual Integrations  
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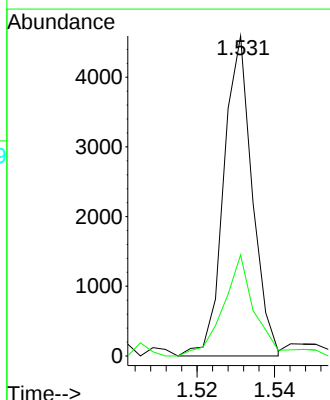
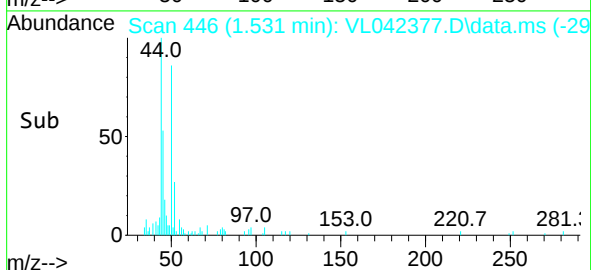
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

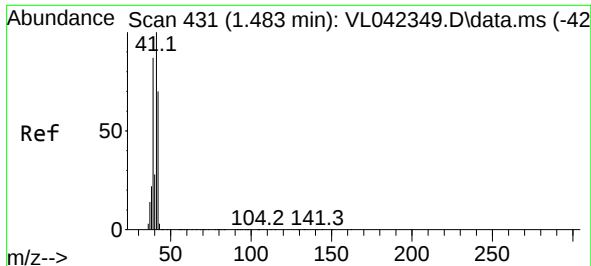


#4  
Chloromethane  
Concen: 0.337 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01



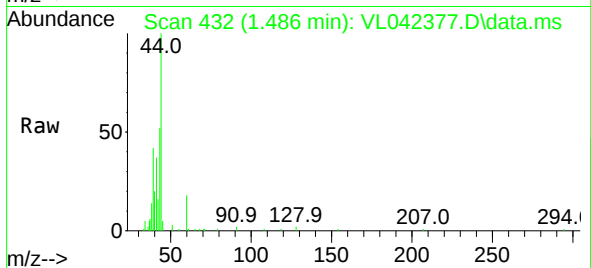
Tgt Ion: 50 Resp: 2346  
Ion Ratio Lower Upper  
50 100  
52 31.6 24.7 37.1





#9  
 Propene  
 Concen: 0.198 ppbv m  
 RT: 1.486 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL042377.D  
 Acq: 18 Apr 2025 02:01

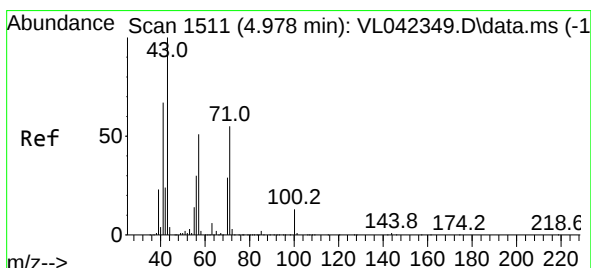
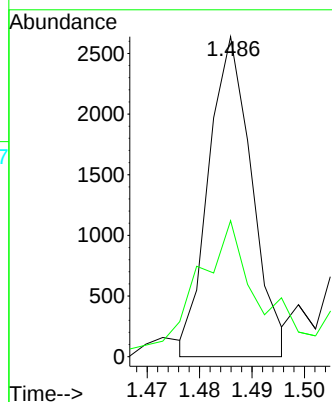
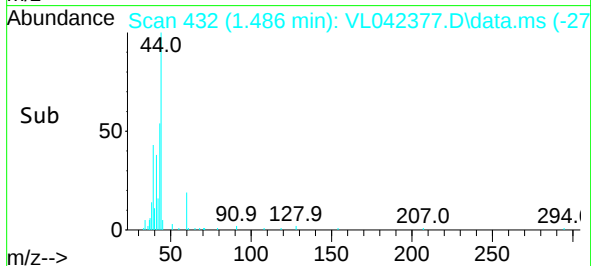
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B2-6-03312025DL



Tgt Ion: 41 Resp: 1509  
 Ion Ratio Lower Upper  
 41 100  
 42 221.3 56.2 84.4

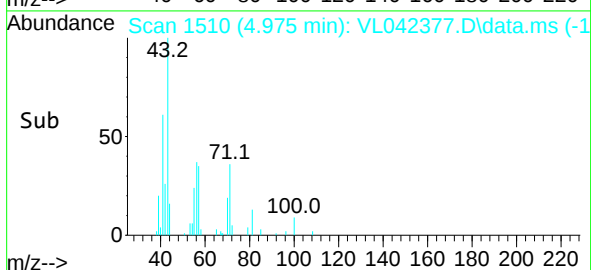
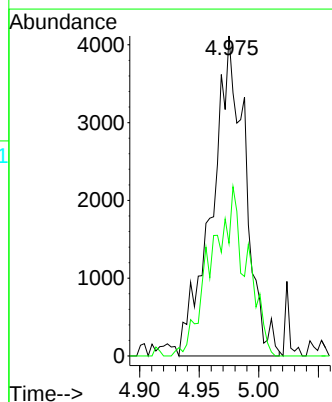
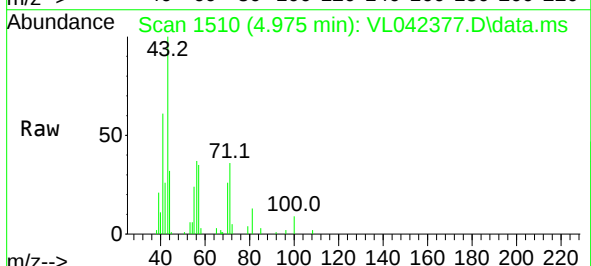
Manual Integrations  
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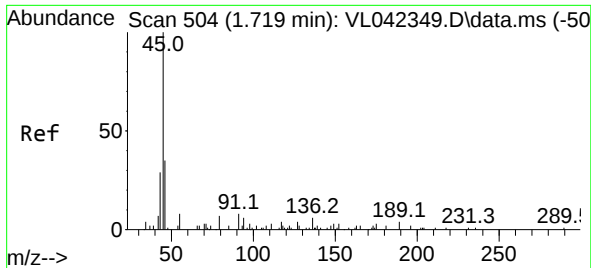
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#10  
 Heptane  
 Concen: 0.375 ppbv m  
 RT: 4.975 min Scan# 1510  
 Delta R.T. -0.003 min  
 Lab File: VL042377.D  
 Acq: 18 Apr 2025 02:01

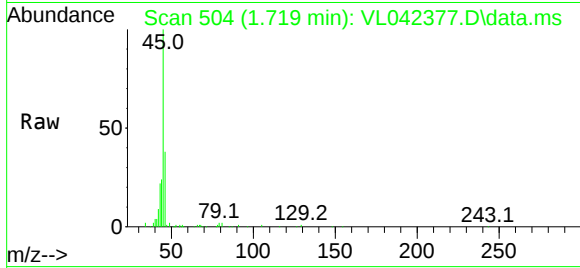
Tgt Ion: 43 Resp: 8029  
 Ion Ratio Lower Upper  
 43 100  
 57 57.0 39.9 59.9





#13  
Ethanol  
Concen: 14.234 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

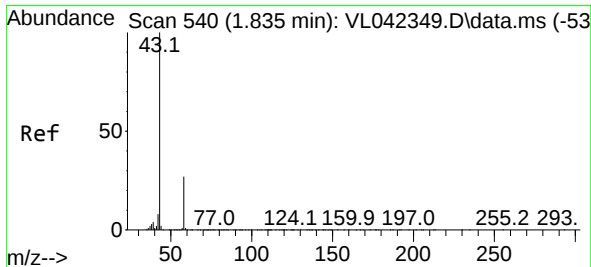
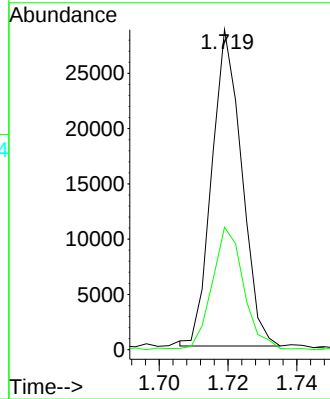
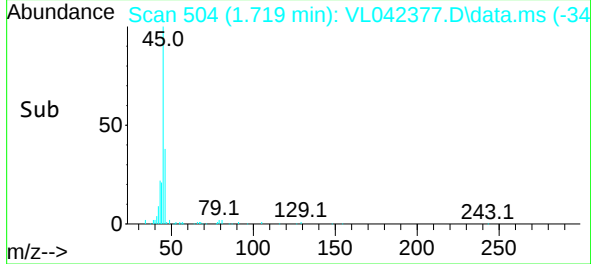
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ClientSampleId :  
IA-B2-6-03312025DL



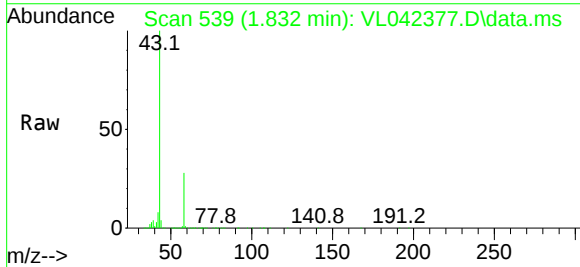
Tgt Ion: 45 Resp: 17238  
Ion Ratio Lower Upper  
45 100  
46 43.5 21.9 87.7

Manual Integrations  
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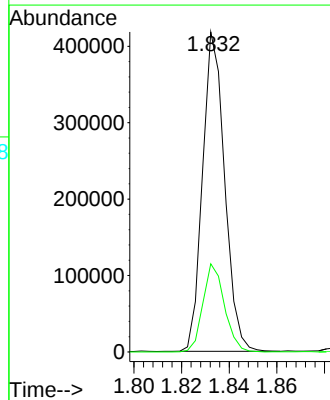
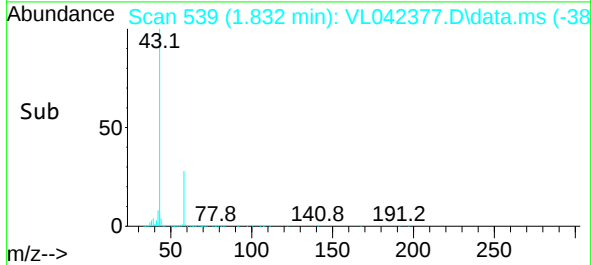
Reviewed By :Semsettin Yesilyurt 04/18/2025  
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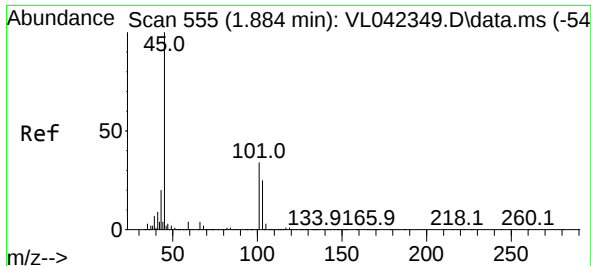


#15  
Acetone  
Concen: 16.568 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01



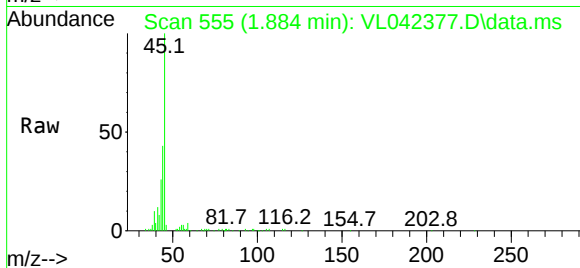
Tgt Ion: 43 Resp: 269648  
Ion Ratio Lower Upper  
43 100  
58 27.0 22.4 33.6





#19  
Isopropyl Alcohol  
Concen: 1.521 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

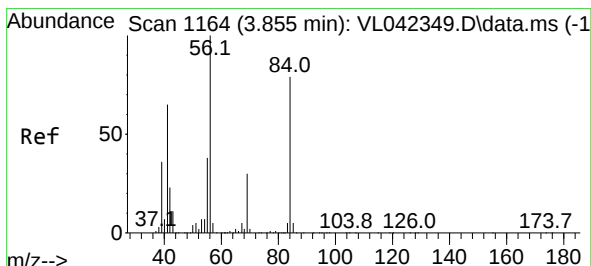
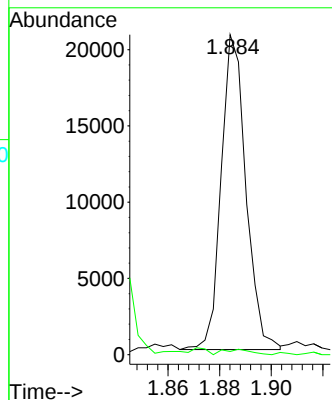
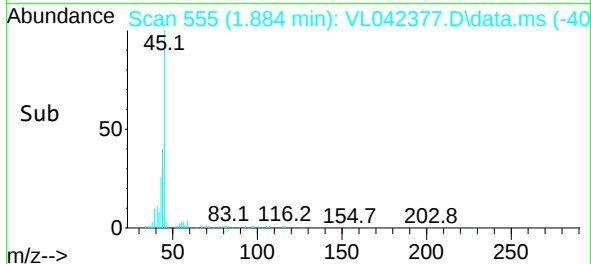
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL



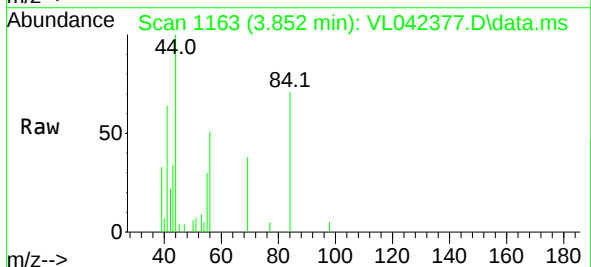
Tgt Ion: 45 Resp: 1375  
Ion Ratio Lower Upper  
45 100  
58 530.4 34.5 51.7

Manual Integrations  
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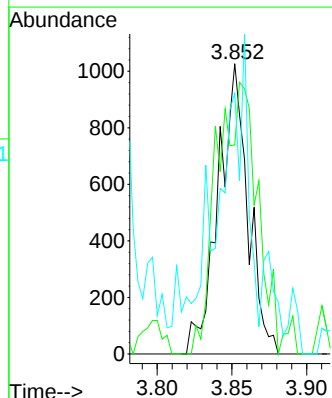
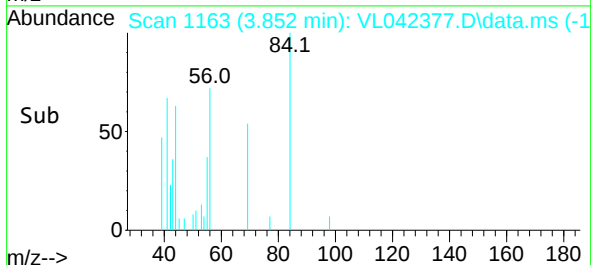
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

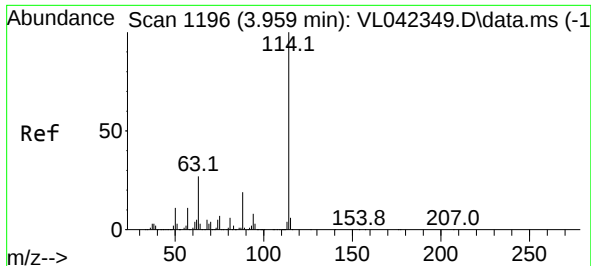


#30  
Cyclohexane  
Concen: 0.108 ppbv m  
RT: 3.852 min Scan# 1163  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01



Tgt Ion: 84 Resp: 1417  
Ion Ratio Lower Upper  
84 100  
56 131.1 101.0 151.4  
41 117.7 67.4 101.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.003 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

MSVOA\_L

ClientSampleId :

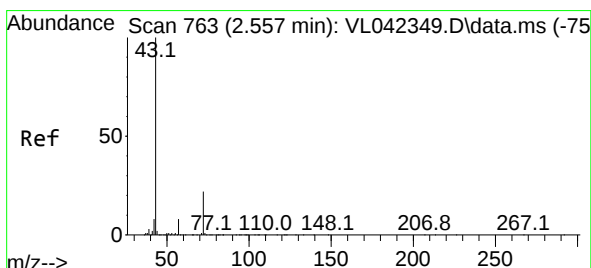
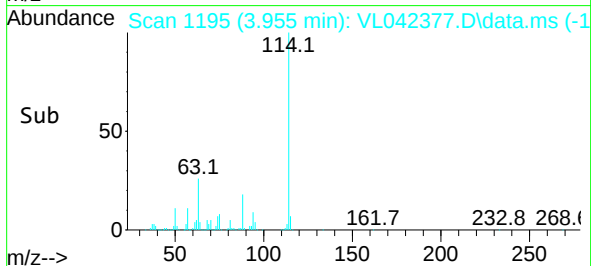
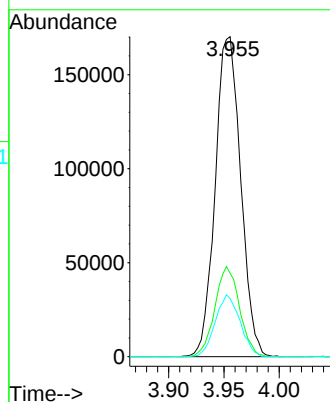
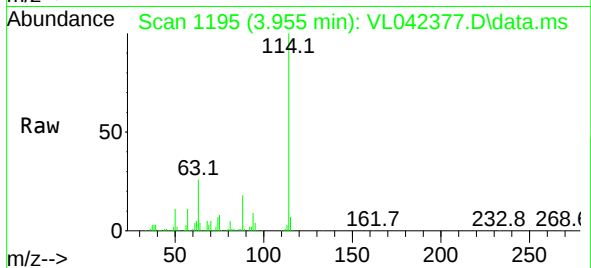
IA-B2-6-03312025DL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 272592 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 27.3  | 21.8  | 32.6   |
| 88       | 18.8  | 15.5  | 23.3   |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
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#34

2-Butanone

Concen: 0.120 ppbv

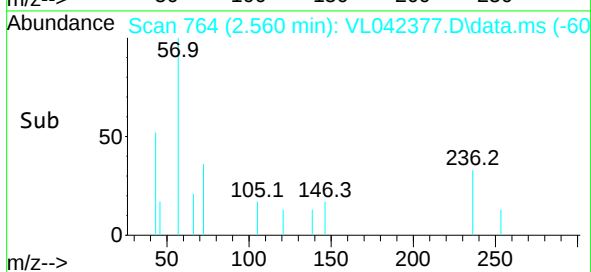
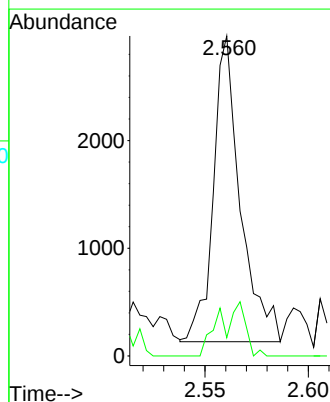
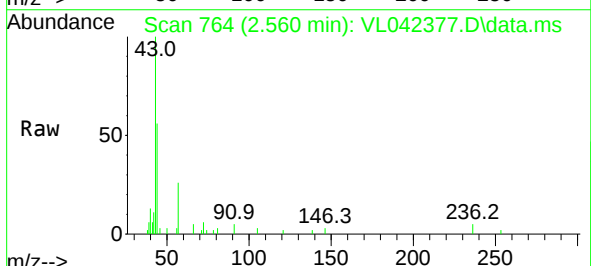
RT: 2.560 min Scan# 764

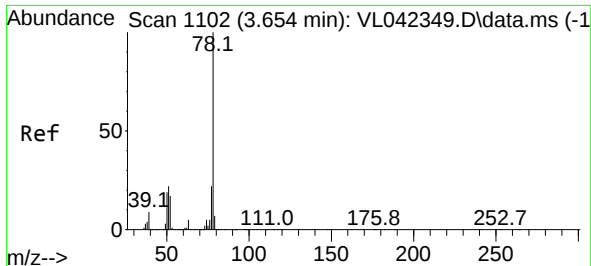
Delta R.T. 0.003 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

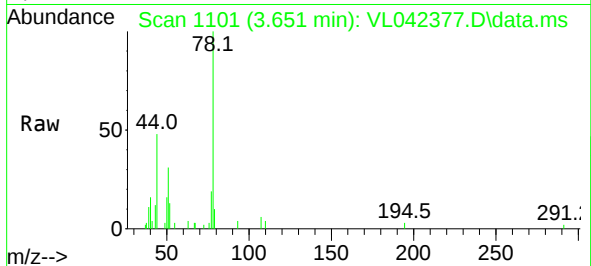
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|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2582  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 17.0  | 18.2  | 27.2# |





#36  
Benzene  
Concen: 0.123 ppbv m  
RT: 3.651 min Scan# 1102  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

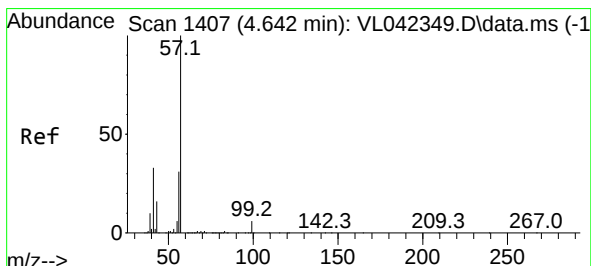
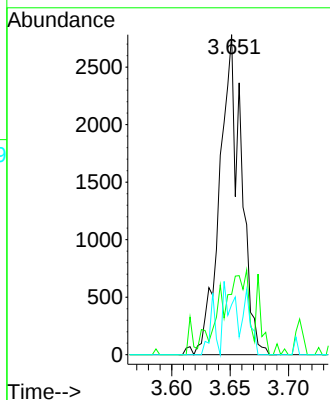
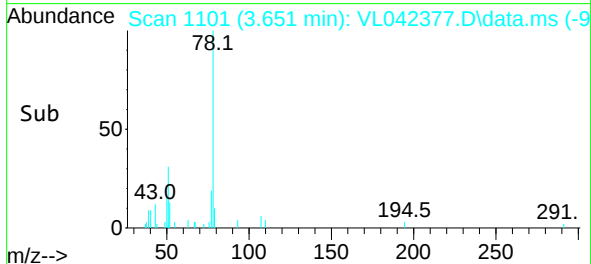
Instrument : MSVOA\_L  
ClientSampleId : IA-B2-6-03312025DL



Tgt Ion: 78 Resp: 360  
Ion Ratio Lower Upper  
78 100  
77 18.9 17.4 26.0  
50 15.7 15.5 23.3

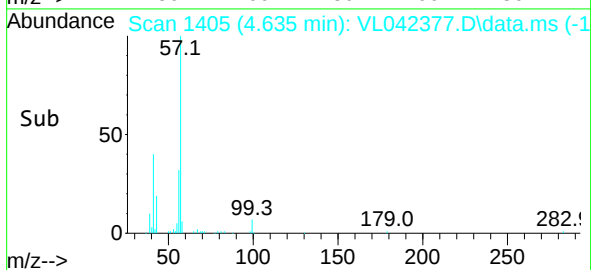
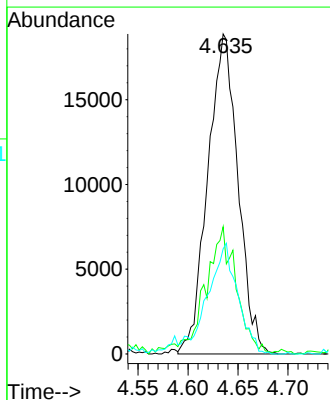
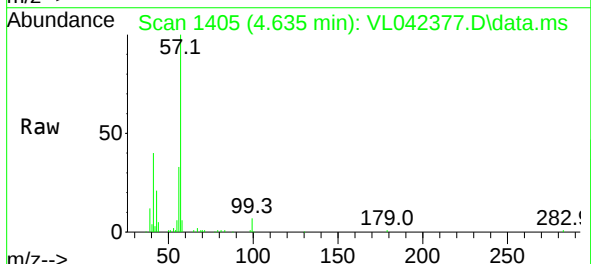
Manual Integrations  
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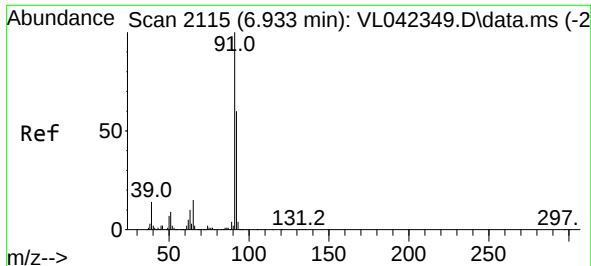
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#44  
2,2,4-Trimethylpentane  
Concen: 0.782 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.006 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

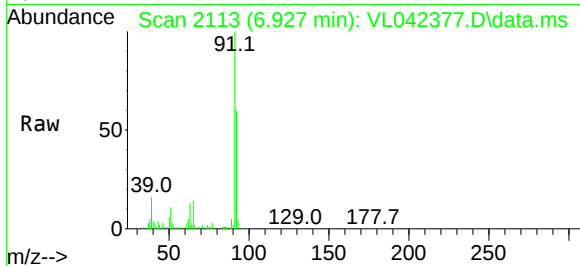
Tgt Ion: 57 Resp: 39733  
Ion Ratio Lower Upper  
57 100  
41 41.9 27.2 40.8#  
56 36.0 25.7 38.5





#53  
Toluene  
Concen: 2.264 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.006 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

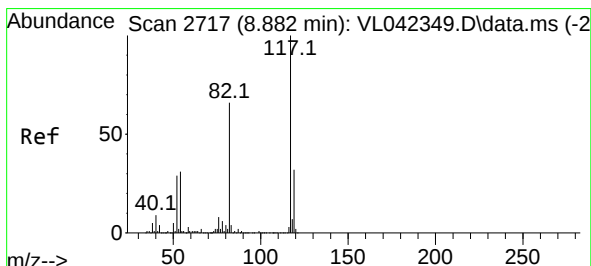
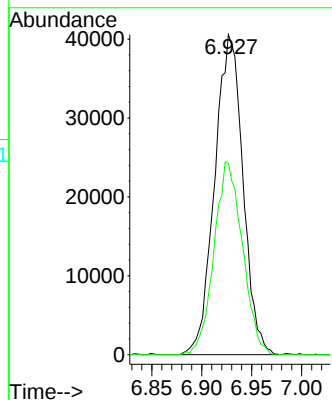
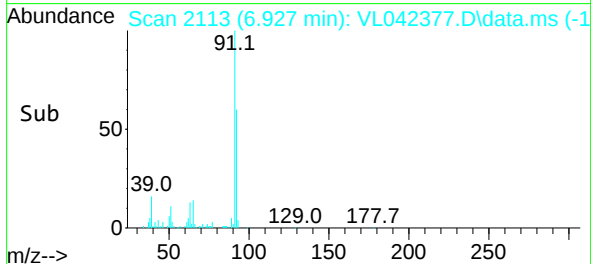
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL



Tgt Ion: 91 Resp: 7988  
Ion Ratio Lower Upper  
91 100  
92 60.5 48.2 72.4

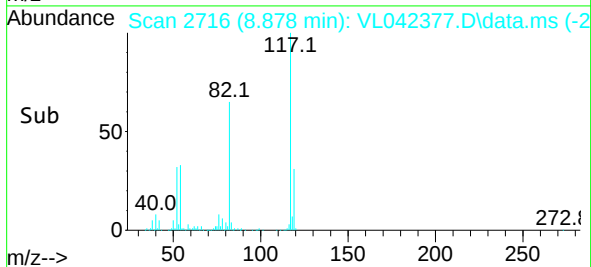
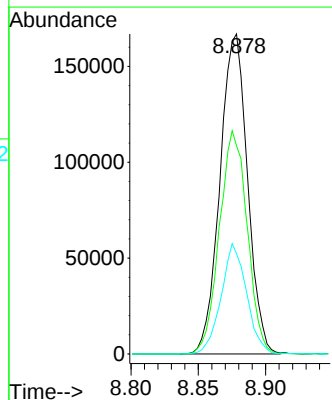
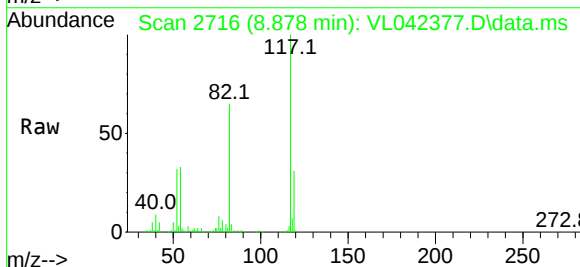
Manual Integrations  
APPROVED

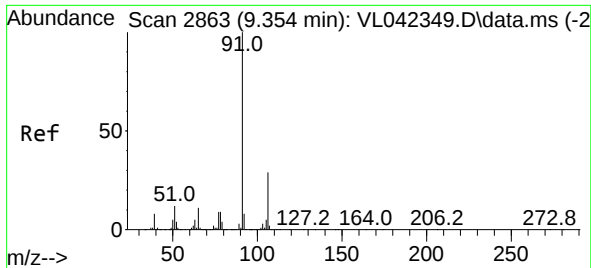
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

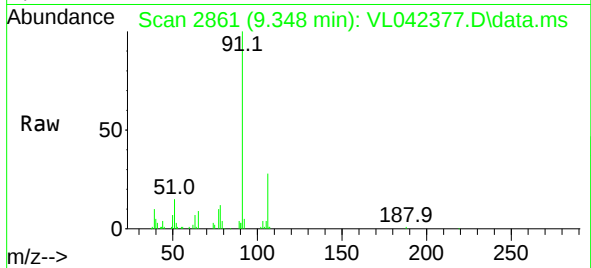
Tgt Ion:117 Resp: 237645  
Ion Ratio Lower Upper  
117 100  
82 70.3 57.8 86.6  
119 31.9 25.2 37.8





#58  
Ethyl Benzene  
Concen: 0.457 ppbv  
RT: 9.348 min Scan# 2150  
Delta R.T. -0.006 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

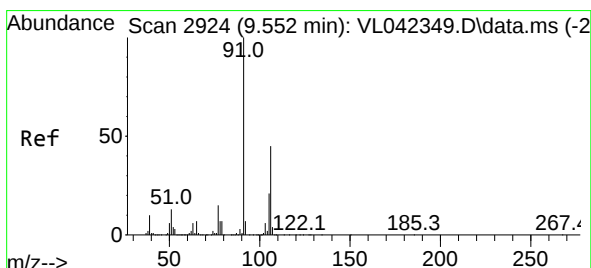
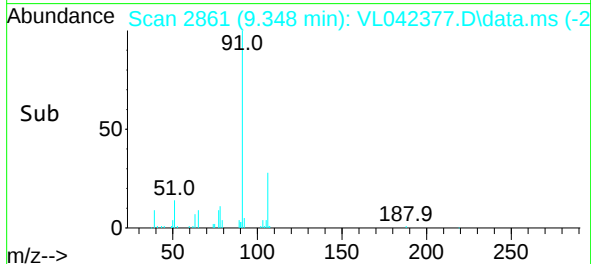
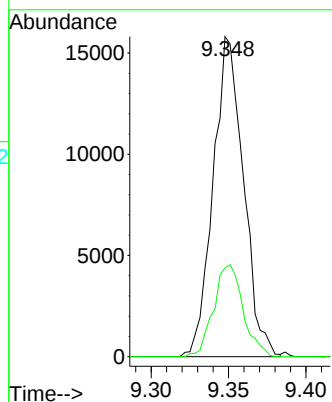
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL



Tgt Ion: 91 Resp: 2150  
Ion Ratio Lower Upper  
91 100  
106 27.7 23.0 34.4

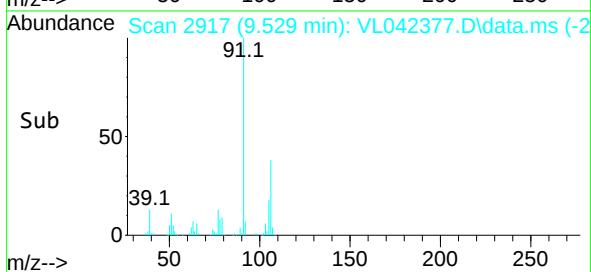
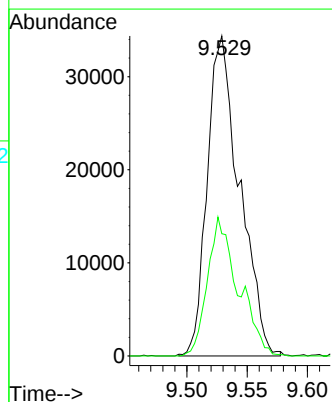
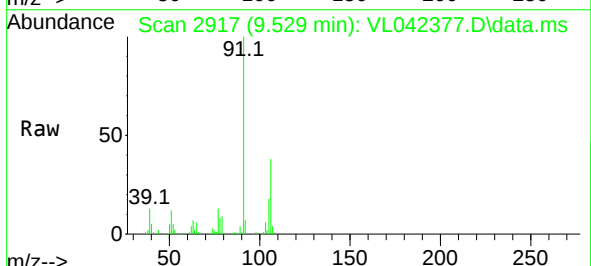
Manual Integrations  
APPROVED

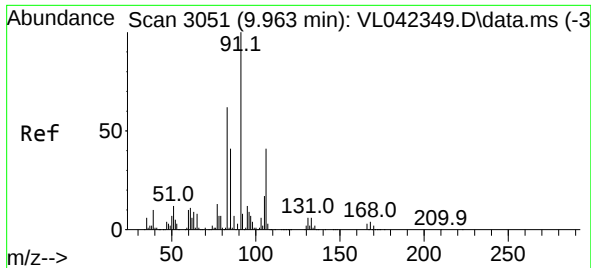
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#59  
m/p-Xylene  
Concen: 1.692 ppbv m  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.023 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 64193  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.4 53.2#





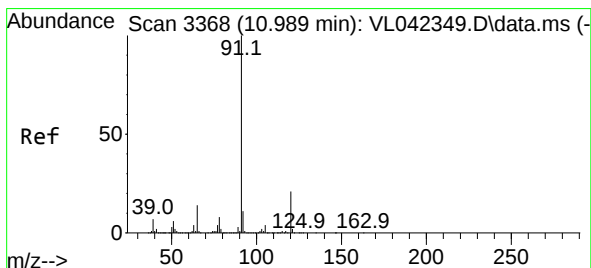
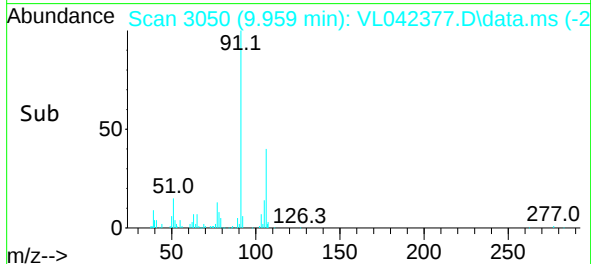
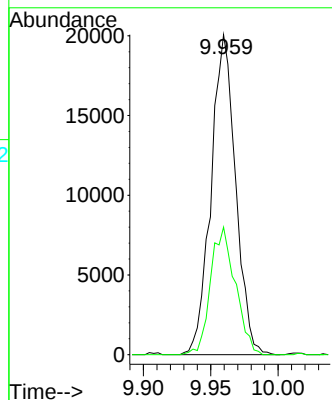
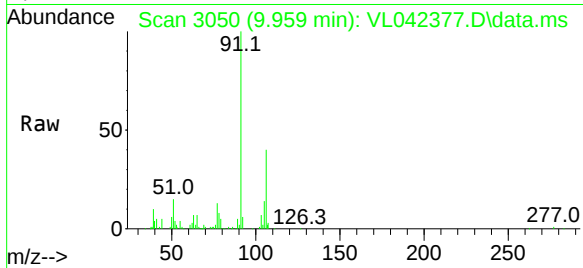
#60  
o-Xylene  
Concen: 0.668 ppbv  
RT: 9.959 min Scan# 3051  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL

Tgt Ion: 91 Resp: 2551  
Ion Ratio Lower Upper  
91 100  
106 40.1 21.1 63.4

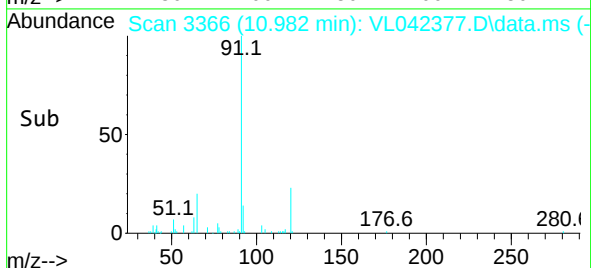
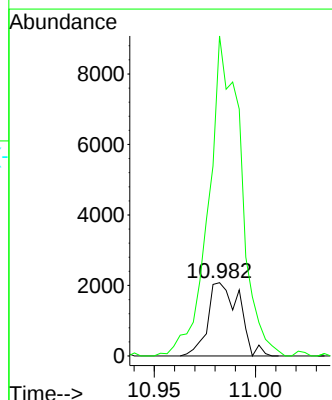
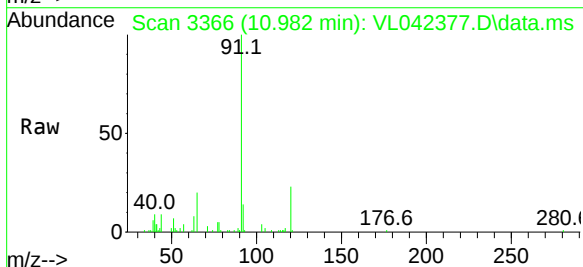
Manual Integrations  
APPROVED

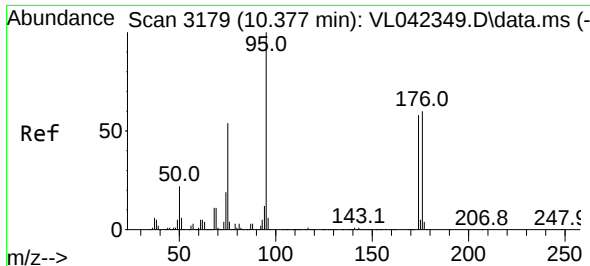
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#64  
n-propylbenzene  
Concen: 0.160 ppbv m  
RT: 10.982 min Scan# 3366  
Delta R.T. -0.006 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

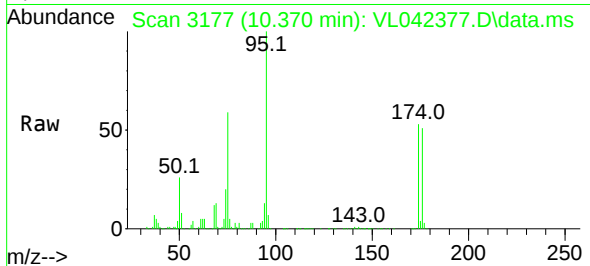
Tgt Ion:120 Resp: 2250  
Ion Ratio Lower Upper  
120 100  
91 449.2 392.4 588.6





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.393 ppbv  
RT: 10.370 min Scan# 3179  
Delta R.T. -0.006 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

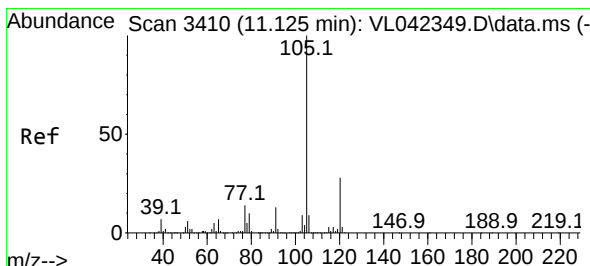
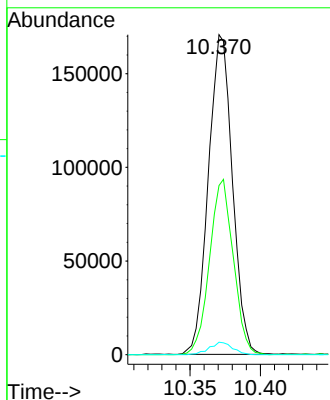
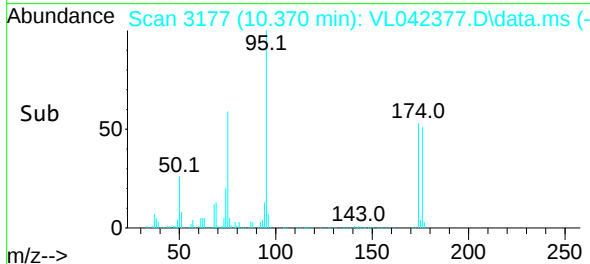
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL



Tgt Ion: 95 Resp: 202954  
Ion Ratio Lower Upper  
95 100  
174 54.2 48.5 72.7  
175 3.8 3.7 5.5

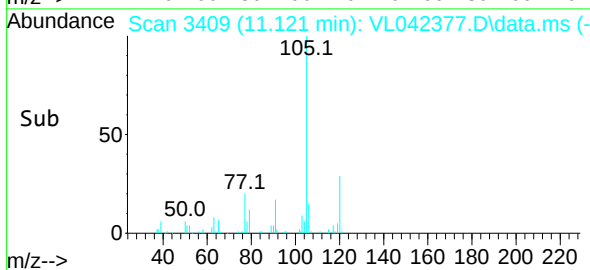
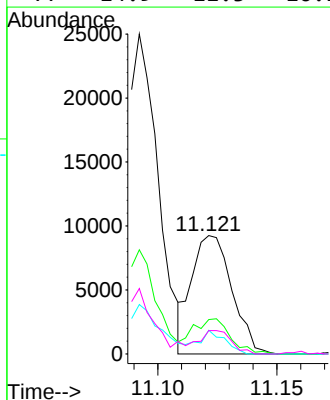
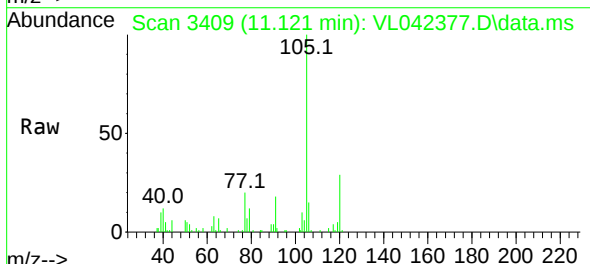
Manual Integrations  
APPROVED

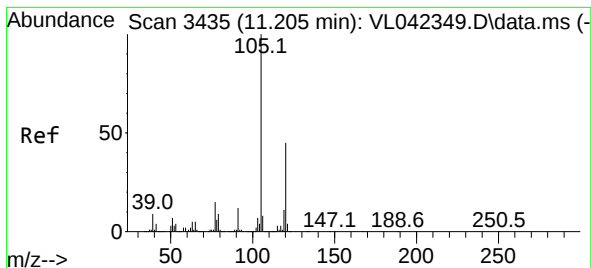
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#72  
4-Ethyltoluene  
Concen: 0.234 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

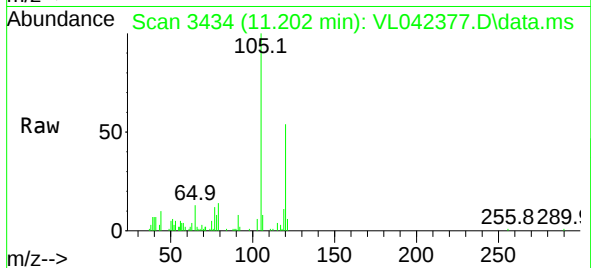
Tgt Ion:105 Resp: 10921  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.2 34.8#  
91 0.0 10.4 15.6#  
77 14.9 11.3 16.9





#73  
1,3,5-Trimethylbenzene  
Concen: 0.272 ppbv  
RT: 11.202 min Scan# 3435  
Delta R.T. -0.003 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

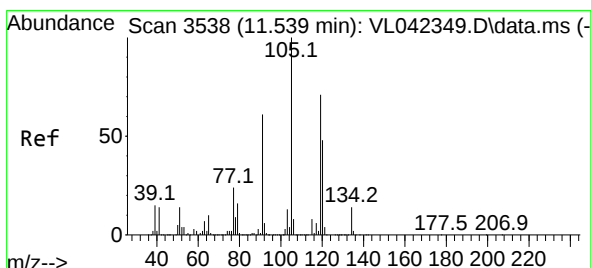
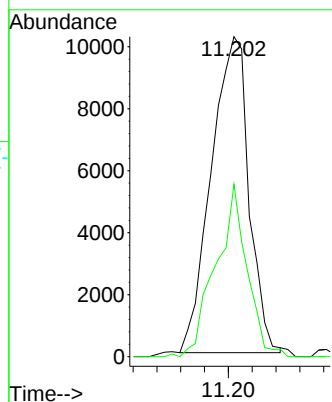
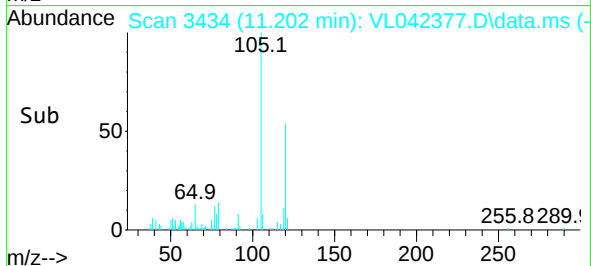
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-6-03312025DL



Tgt Ion:105 Resp: 11199  
Ion Ratio Lower Upper  
105 100  
120 54.6 35.6 53.4#

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 0.853 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.006 min  
Lab File: VL042377.D  
Acq: 18 Apr 2025 02:01

Tgt Ion:105 Resp: 41057  
Ion Ratio Lower Upper  
105 100  
120 43.6 38.1 57.1  
91 11.9 48.8 73.2#  
77 16.5 19.0 28.4#

