

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011923\  
 Data File : VL040118.D  
 Acq On : 19 Jan 2023 18:10  
 Operator : SY/MD  
 Sample : 01223-04DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VP-4DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023  
 Supervised By :Mahesh Dadoda 01/20/2023

Quant Time: Jan 20 02:08:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011623AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023  
 QLast Update : Mon Jan 16 14:40:47 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.198  | 49    | 1053516  | 10.000   | ppbv   | 0.01     |
| 33) 1,4-Difluorobenzene     | 6.664  | 114   | 2795431  | 10.000   | ppbv   | 0.01     |
| 55) Chlorobenzene-d5        | 11.487 | 117   | 2531220  | 10.000   | ppbv   | 0.01     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.799 | 95    | 2024921  | 9.625    | ppbv   | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 96.300%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 2.687  | 41    | 522101   | 9.945    | ppbv   | 95       |
| 10) Heptane                 | 7.594  | 43    | 30691m   | 0.254    | ppbv   |          |
| 13) Ethanol                 | 3.240  | 45    | 92546m   | 19.152   | ppbv   |          |
| 15) Acetone                 | 3.465  | 43    | 1376418  | 10.894   | ppbv   | 96       |
| 16) 1,3-Butadiene           | 2.973  | 39    | 111123m  | 1.886    | ppbv   |          |
| 20) Methylene Chloride      | 3.935  | 84    | 342433   | 6.143    | ppbv   | 92       |
| 26) Hexane                  | 5.221  | 57    | 257643   | 2.645    | ppbv # | 43       |
| 34) 2-Butanone              | 4.793  | 43    | 610312   | 4.616    | ppbv   | 99       |
| 36) Benzene                 | 6.381  | 78    | 309615   | 1.497    | ppbv   | 96       |
| 41) Tetrahydrofuran         | 5.584  | 42    | 57762    | 0.757    | ppbv   | 92       |
| 53) Toluene                 | 9.237  | 91    | 225353   | 1.021    | ppbv   | 99       |
| 58) Ethyl Benzene           | 12.111 | 91    | 120573   | 0.427    | ppbv   | 98       |
| 59) m/p-Xylene              | 12.362 | 91    | 271655   | 1.070    | ppbv   | 91       |
| 60) o-Xylene                | 13.076 | 91    | 73020m   | 0.303    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 16.137 | 105   | 41169m   | 0.154    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

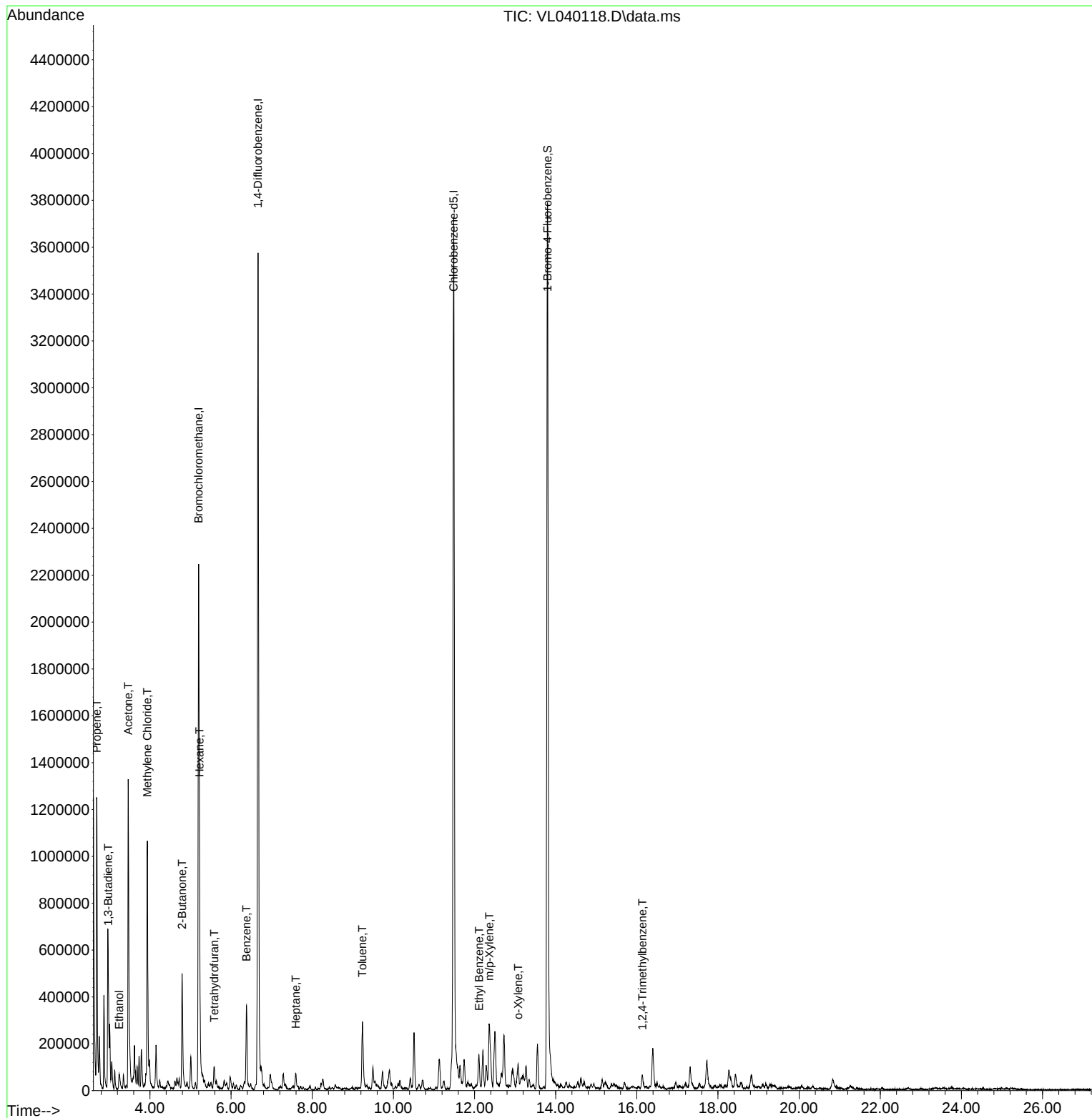
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011923\  
Data File : VL040118.D  
Acq On : 19 Jan 2023 18:10  
Operator : SY/MD  
Sample : 01223-04DL 10X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

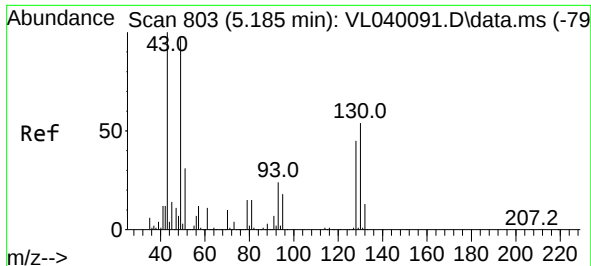
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL

Quant Time: Jan 20 02:08:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011623AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Mon Jan 16 14:40:47 2023  
Response via : Initial Calibration

Manual Integrations  
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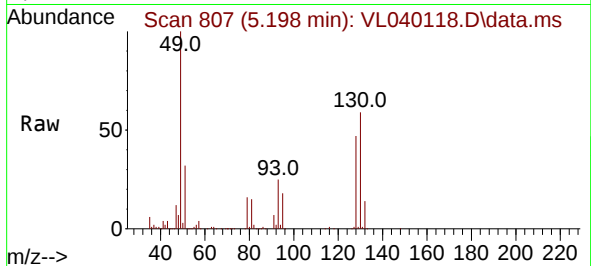
Reviewed By : Semsettin Yesilyurt 01/20/2023  
Supervised By : Mahesh Dadoda 01/20/2023





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.198 min Scan# 80  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

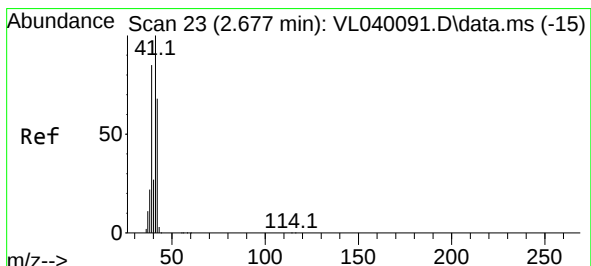
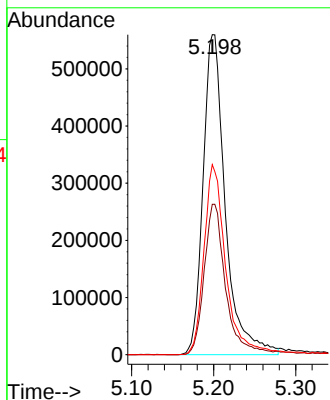
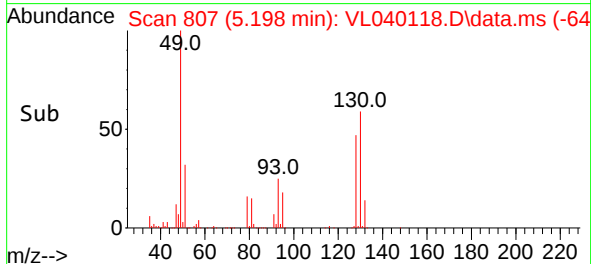
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



Tgt Ion: 49 Resp: 1053510  
Ion Ratio Lower Upper  
49 100  
128 46.8 23.6 71.0  
130 60.1 29.8 89.3

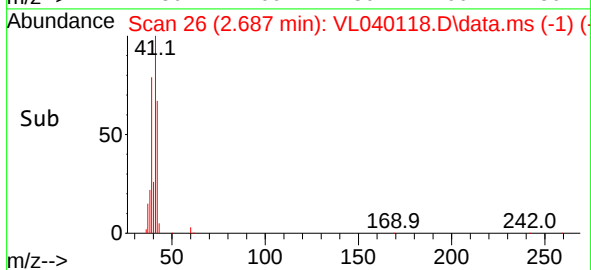
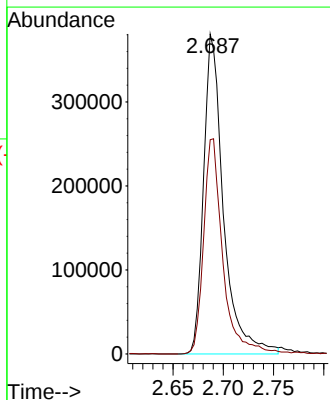
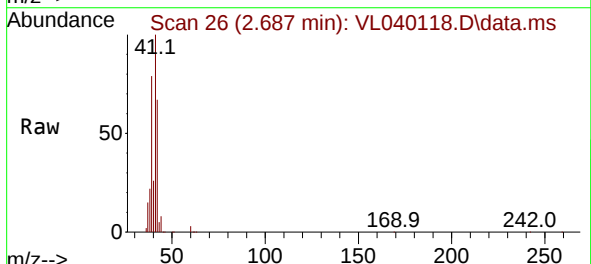
Manual Integrations  
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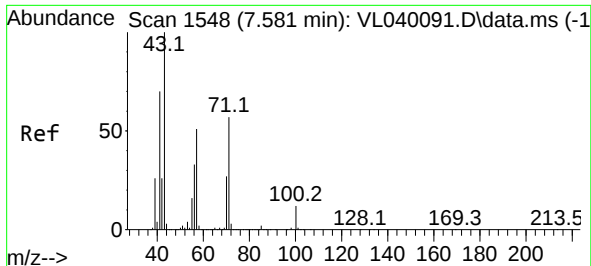
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#9  
Propene  
Concen: 9.945 ppbv  
RT: 2.687 min Scan# 26  
Delta R.T. 0.010 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

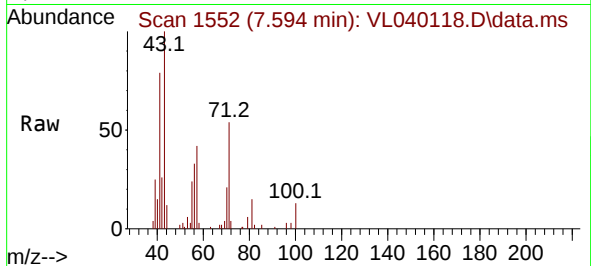
Tgt Ion: 41 Resp: 522101  
Ion Ratio Lower Upper  
41 100  
42 65.8 55.6 83.4





#10  
Heptane  
Concen: 0.254 ppbv m  
RT: 7.594 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

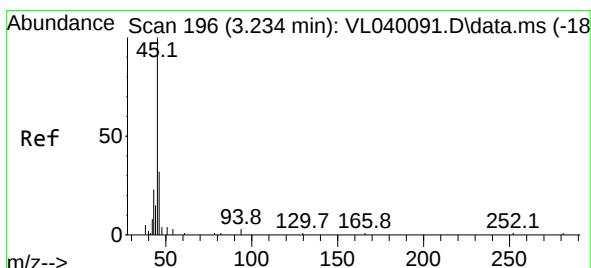
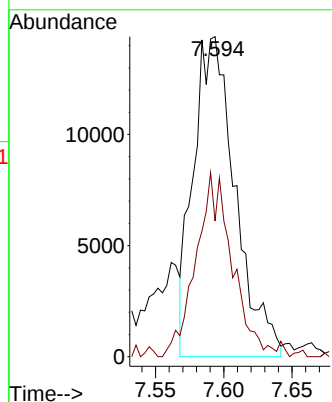
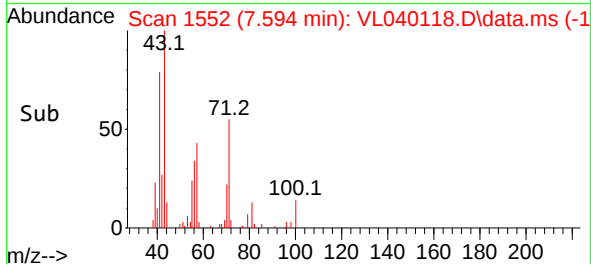
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



Tgt Ion: 43 Resp: 3069  
Ion Ratio Lower Upper  
43 100  
57 51.0 40.9 61.3

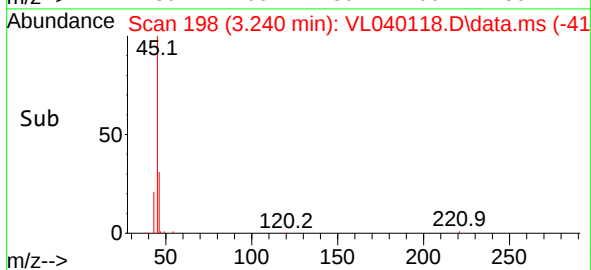
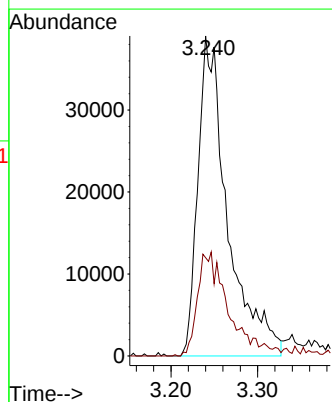
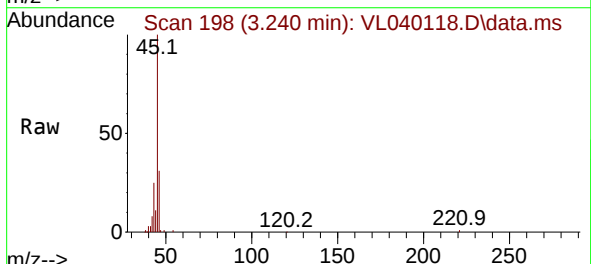
Manual Integrations  
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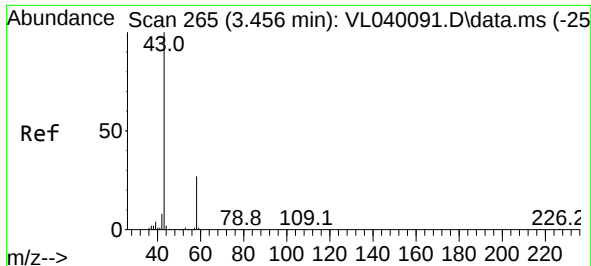
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#13  
Ethanol  
Concen: 19.152 ppbv m  
RT: 3.240 min Scan# 198  
Delta R.T. 0.006 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

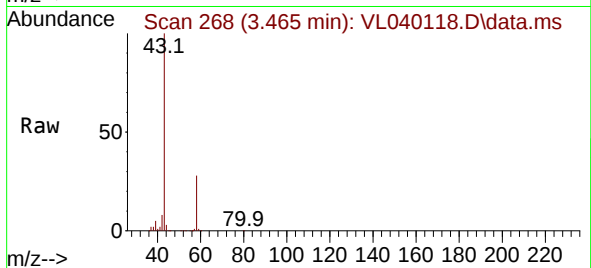
Tgt Ion: 45 Resp: 92546  
Ion Ratio Lower Upper  
45 100  
46 0.0 14.8 59.2#





#15  
Acetone  
Concen: 10.894 ppbv  
RT: 3.465 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

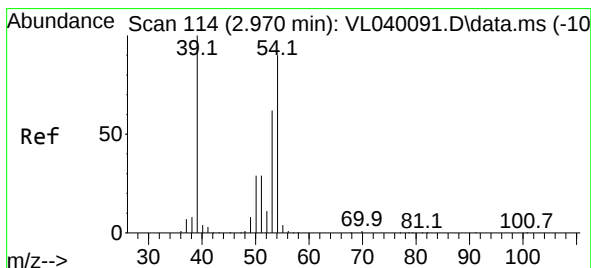
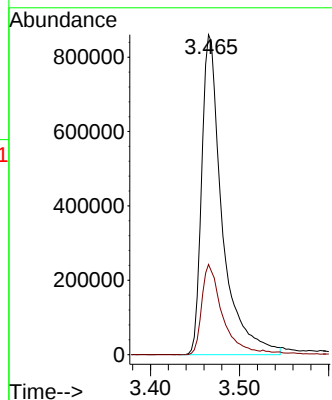
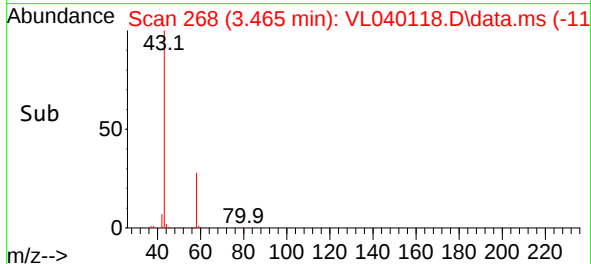
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



Tgt Ion: 43 Resp: 1376418  
Ion Ratio Lower Upper  
43 100  
58 29.6 21.8 32.8

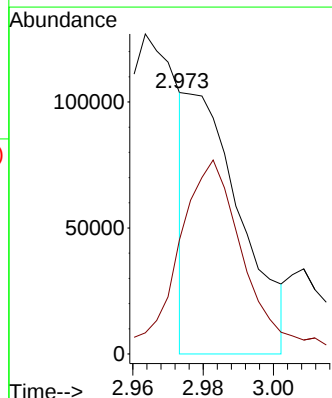
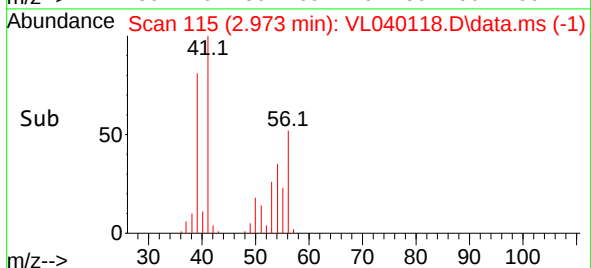
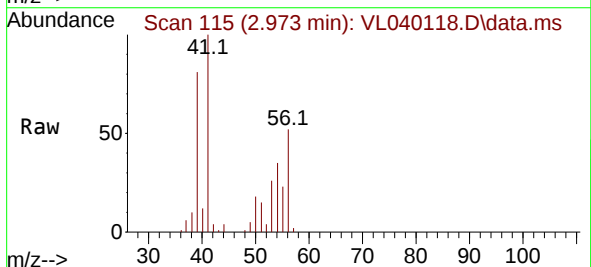
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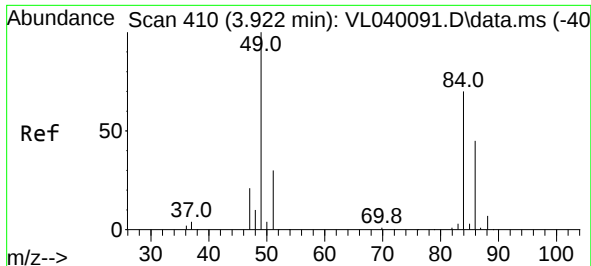
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#16  
1,3-Butadiene  
Concen: 1.886 ppbv m  
RT: 2.973 min Scan# 115  
Delta R.T. 0.003 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

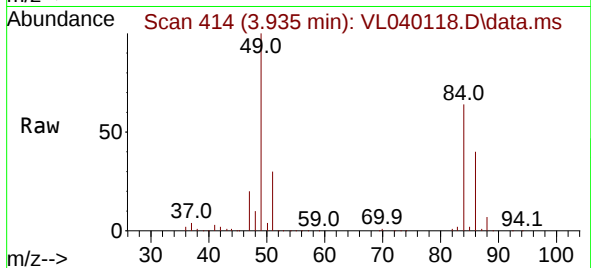
Tgt Ion: 39 Resp: 111123  
Ion Ratio Lower Upper  
39 100  
54 96.1 67.9 101.9





#20  
Methylene Chloride  
Concen: 6.143 ppbv  
RT: 3.935 min Scan# 410  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

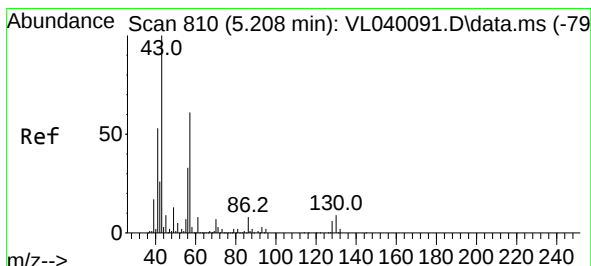
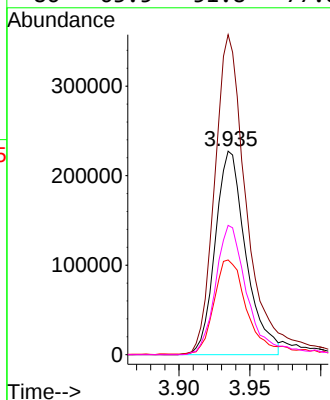
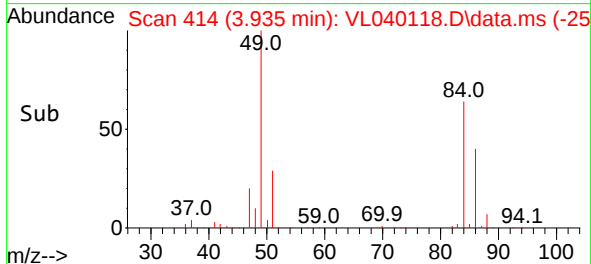
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



Tgt Ion: 84 Resp: 34243  
Ion Ratio Lower Upper  
84 100  
49 157.2 114.6 171.8  
51 46.2 34.3 51.5  
86 63.5 51.8 77.8

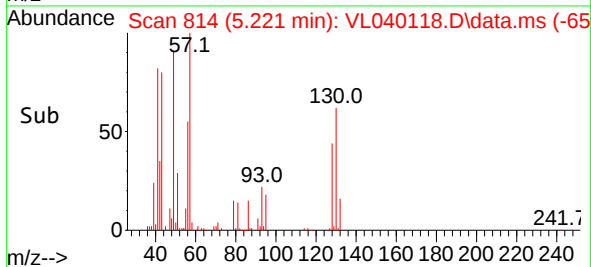
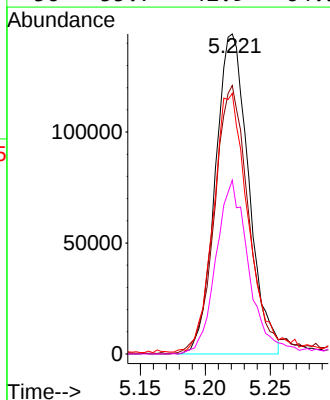
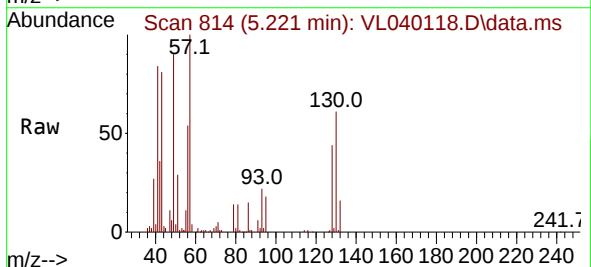
Manual Integrations  
APPROVED

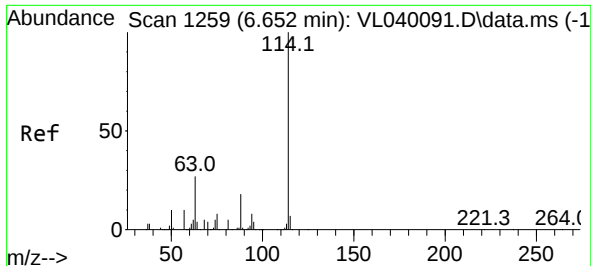
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#26  
Hexane  
Concen: 2.645 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

Tgt Ion: 57 Resp: 257643  
Ion Ratio Lower Upper  
57 100  
41 87.4 72.2 108.4  
43 87.4 192.1 288.1#  
56 55.7 42.9 64.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL040118.D

Acq: 19 Jan 2023 18:10

Instrument :

MSVOA\_L

ClientSampleId :

VP-4DL

Tgt Ion:114 Resp: 279543

Ion Ratio Lower Upper

114 100

63 25.6 21.8 32.8

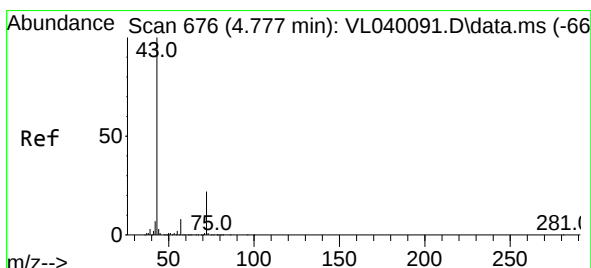
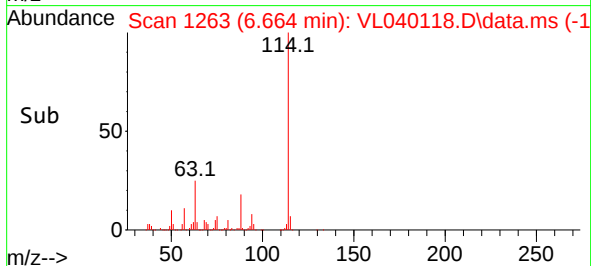
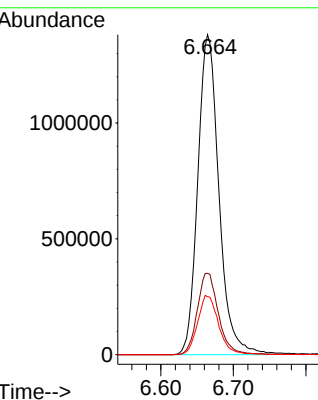
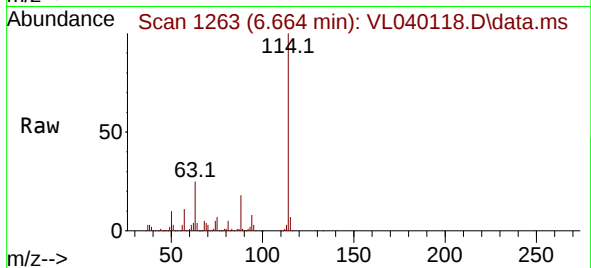
88 18.5 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#34

2-Butanone

Concen: 4.616 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.016 min

Lab File: VL040118.D

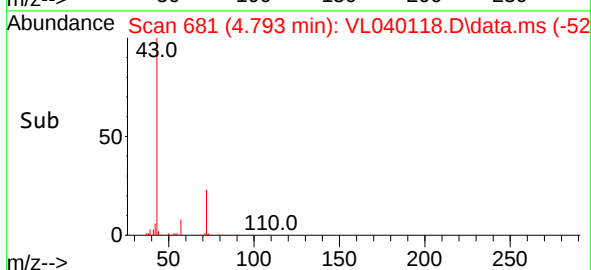
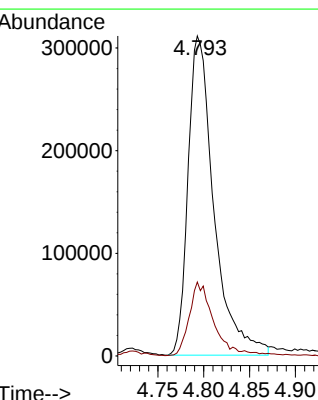
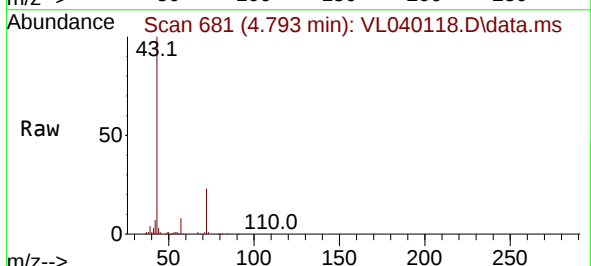
Acq: 19 Jan 2023 18:10

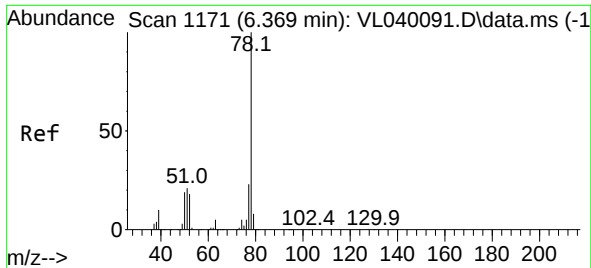
Tgt Ion: 43 Resp: 610312

Ion Ratio Lower Upper

43 100

72 22.6 18.4 27.6





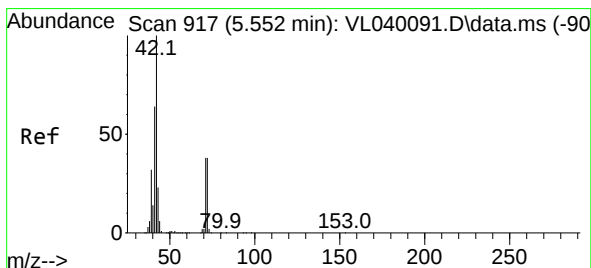
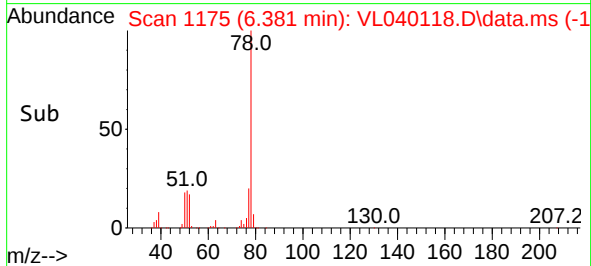
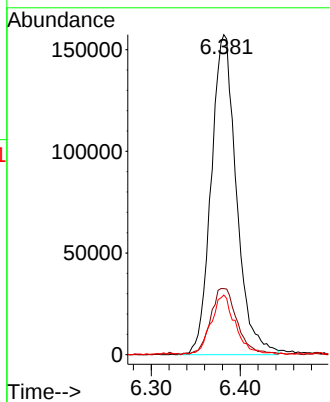
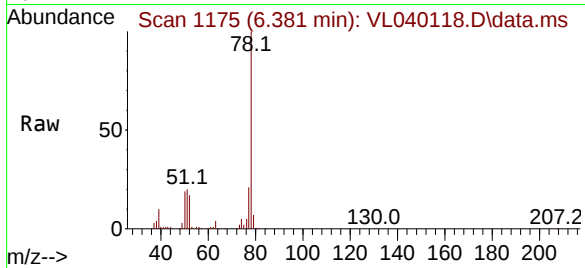
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Benzene  
Concen: 1.497 ppbv  
RT: 6.381 min Scan# 1175  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL

Tgt Ion: 78 Resp: 30961  
Ion Ratio Lower Upper  
78 100  
77 20.3 18.1 27.1  
50 18.5 15.6 23.4

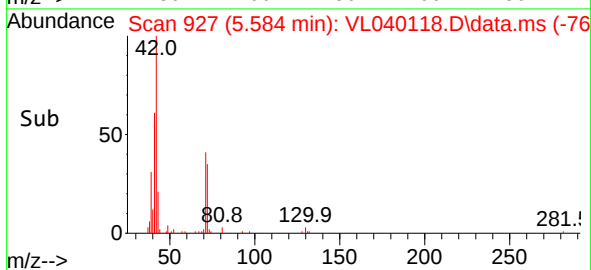
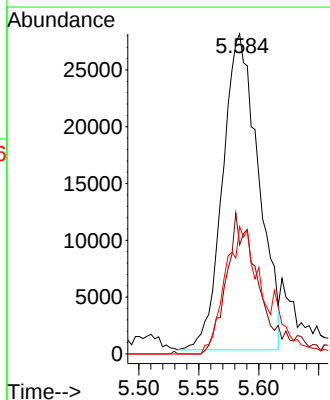
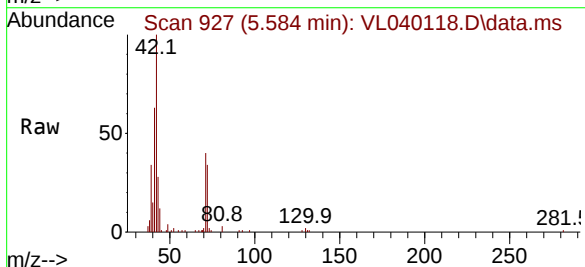
Manual Integrations  
APPROVED

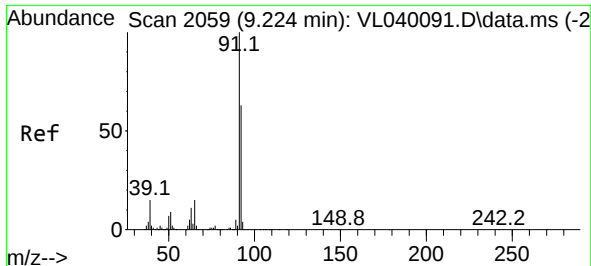
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#41  
Tetrahydrofuran  
Concen: 0.757 ppbv  
RT: 5.584 min Scan# 927  
Delta R.T. 0.032 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

Tgt Ion: 42 Resp: 57762  
Ion Ratio Lower Upper  
42 100  
72 43.4 31.9 47.9  
71 45.5 31.4 47.2





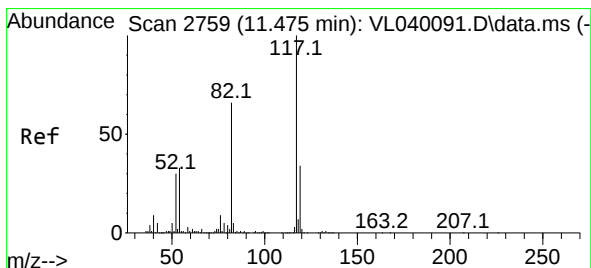
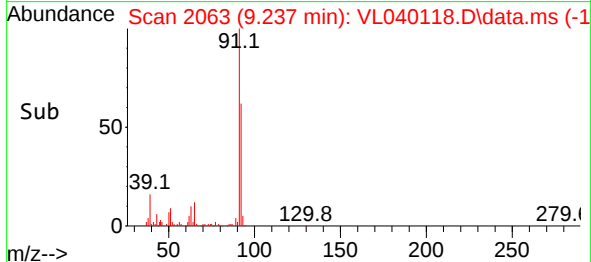
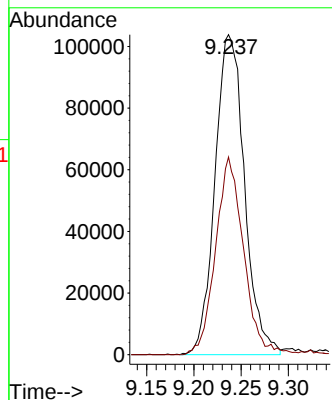
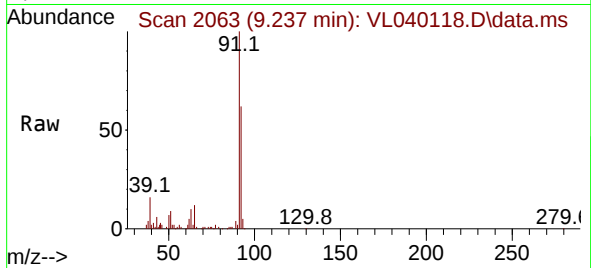
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Toluene  
Concen: 1.021 ppbv  
RT: 9.237 min Scan# 2059  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL

Tgt Ion: 91 Resp: 22535  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.3 72.5

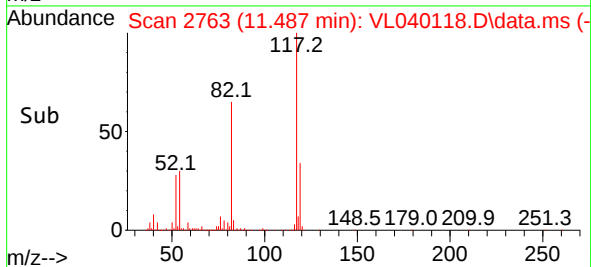
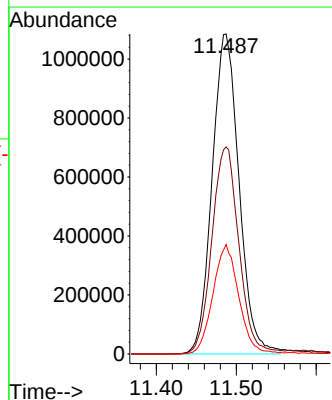
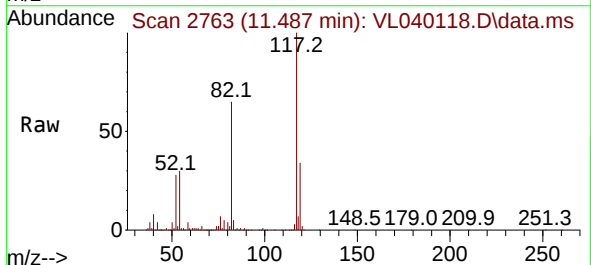
Manual Integrations  
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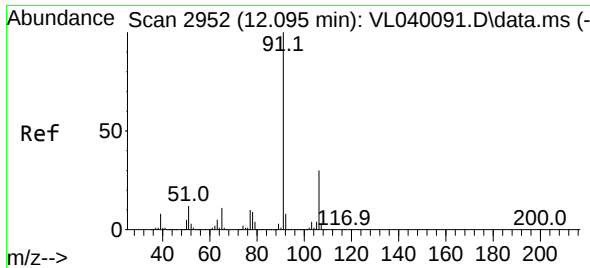
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.487 min Scan# 2763  
Delta R.T. 0.013 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

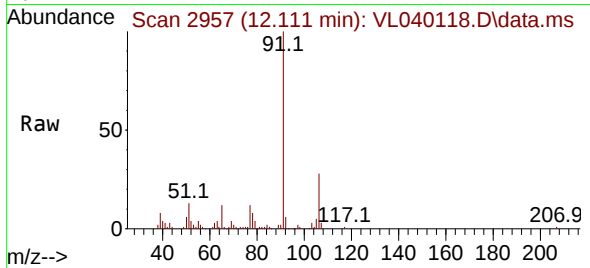
Tgt Ion:117 Resp: 2531220  
Ion Ratio Lower Upper  
117 100  
82 65.2 54.4 81.6  
119 33.2 26.8 40.2





#58  
Ethyl Benzene  
Concen: 0.427 ppbv  
RT: 12.111 min Scan# 2957  
Delta R.T. 0.016 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

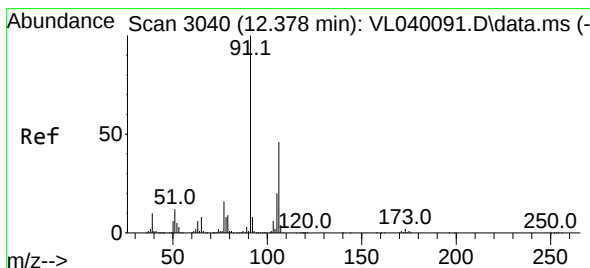
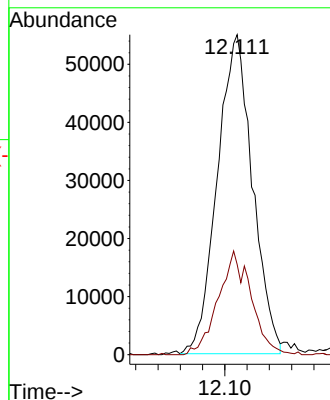
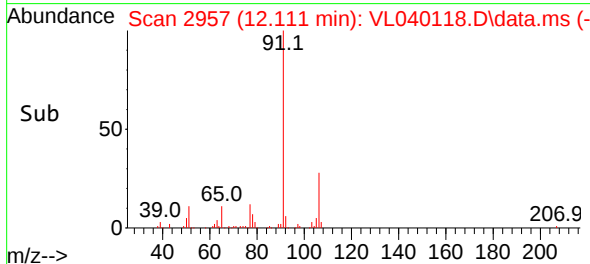
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



Tgt Ion: 91 Resp: 12057  
Ion Ratio Lower Upper  
91 100  
106 28.3 23.7 35.5

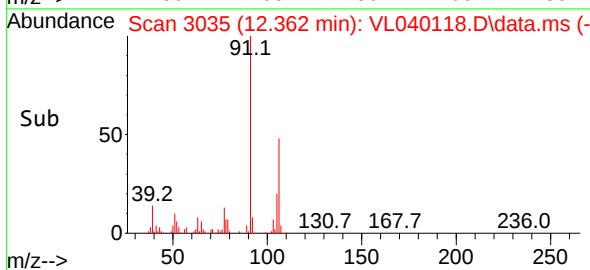
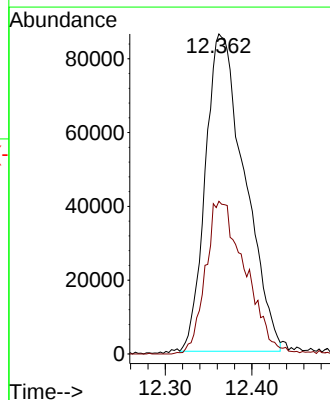
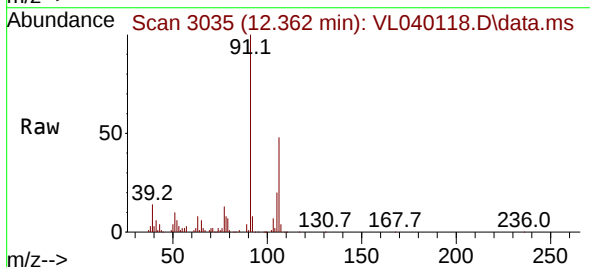
Manual Integrations  
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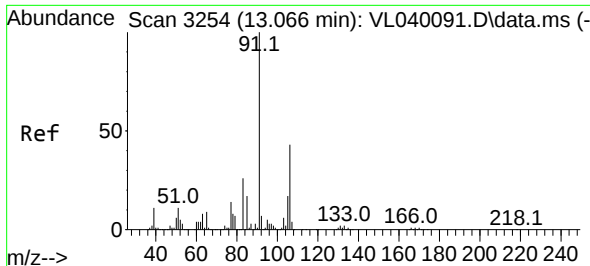
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#59  
m/p-Xylene  
Concen: 1.070 ppbv  
RT: 12.362 min Scan# 3035  
Delta R.T. -0.016 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

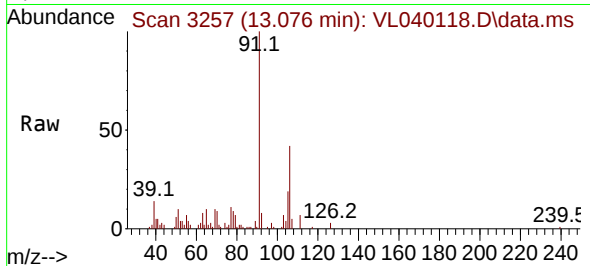
Tgt Ion: 91 Resp: 271655  
Ion Ratio Lower Upper  
91 100  
106 48.7 34.2 51.4





#60  
o-Xylene  
Concen: 0.303 ppbv m  
RT: 13.076 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

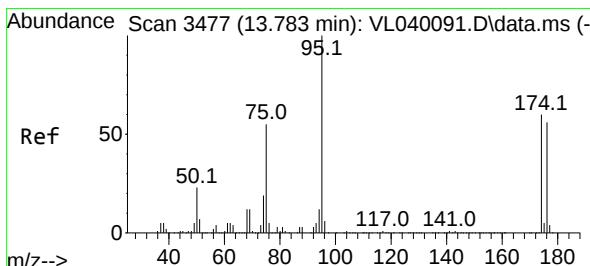
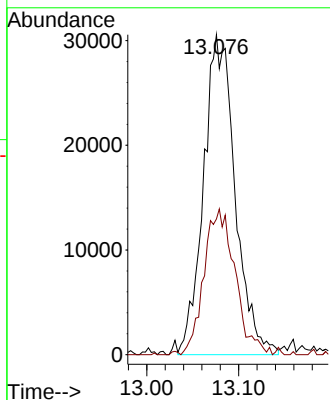
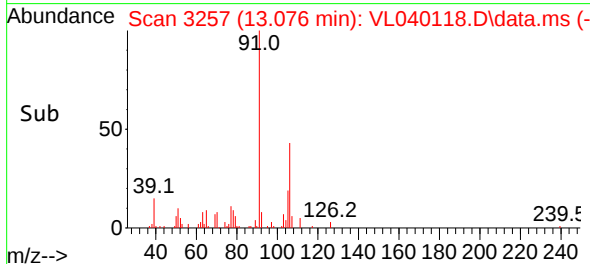
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



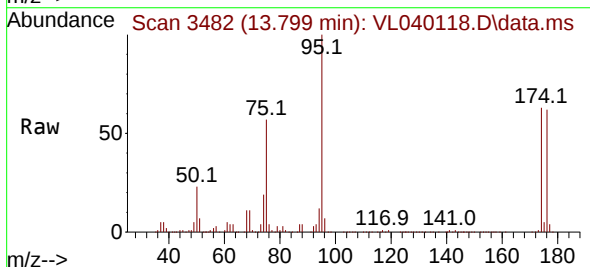
Tgt Ion: 91 Resp: 73020  
Ion Ratio Lower Upper  
91 100  
106 45.3 21.6 64.8

Manual Integrations  
APPROVED

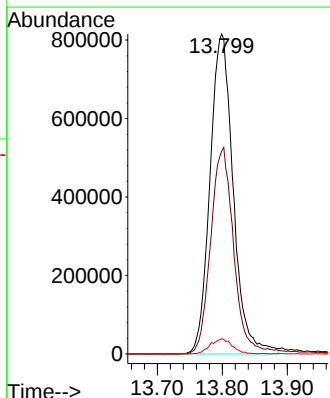
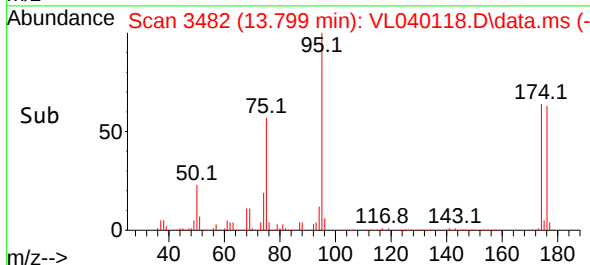
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023

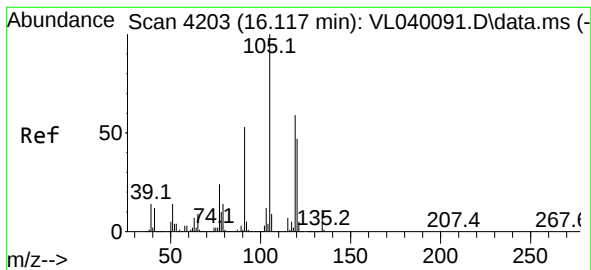


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.625 ppbv  
RT: 13.799 min Scan# 3482  
Delta R.T. 0.016 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10



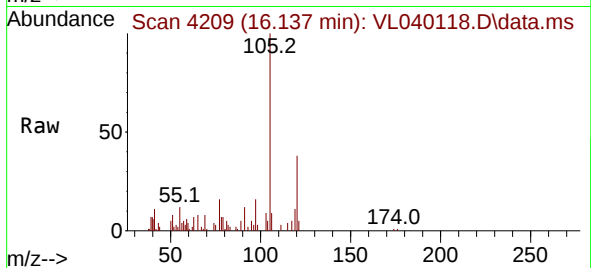
Tgt Ion: 95 Resp: 2024921  
Ion Ratio Lower Upper  
95 100  
174 64.9 47.7 71.5  
175 4.7 3.4 5.2





#74  
1,2,4-Trimethylbenzene  
Concen: 0.154 ppbv m  
RT: 16.137 min Scan# 41  
Delta R.T. 0.019 min  
Lab File: VL040118.D  
Acq: 19 Jan 2023 18:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 41169 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 37.6  | 38.0  | 57.0  |
| 91       | 11.8  | 42.1  | 63.1  |
| 77       | 16.4  | 19.3  | 28.9  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023

