

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011923\  
 Data File : VL040119.D  
 Acq On : 19 Jan 2023 18:48  
 Operator : SY/MD  
 Sample : 01223-04DL2 40X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VP-4DL2

Manual Integrations  
 APPROVED

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

Quant Time: Jan 20 02:09:06 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       | 5.202  | 49    | 1014271  | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 6.664  | 114   | 2727238  | 10.000   | ppbv   | 0.01     |
| 55) Chlorobenzene-d5        | 11.487 | 117   | 2469408  | 10.000   | ppbv   | 0.01     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.799 | 95    | 1948047  | 9.492    | ppbv   | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 94.900%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 2.690  | 41    | 99401    | 1.967    | ppbv   | 94       |
| 13) Ethanol                 | 3.256  | 45    | 16516m   | 3.550    | ppbv   |          |
| 15) Acetone                 | 3.478  | 43    | 244702m  | 2.012    | ppbv   |          |
| 16) 1,3-Butadiene           | 2.977  | 39    | 22252    | 0.392    | ppbv   | 97       |
| 19) Isopropyl Alcohol       | 3.607  | 45    | 6442m    | 0.108    | ppbv   |          |
| 20) Methylene Chloride      | 3.935  | 84    | 84951    | 1.583    | ppbv   | 91       |
| 26) Hexane                  | 5.224  | 57    | 57602m   | 0.614    | ppbv   |          |
| 34) 2-Butanone              | 4.812  | 43    | 107438   | 0.833    | ppbv   | 99       |
| 36) Benzene                 | 6.385  | 78    | 55348    | 0.274    | ppbv # | 91       |
| 41) Tetrahydrofuran         | 5.603  | 42    | 11790m   | 0.158    | ppbv   |          |
| 53) Toluene                 | 9.237  | 91    | 37212m   | 0.173    | ppbv   |          |
| 59) m/p-Xylene              | 12.362 | 91    | 42392m   | 0.171    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

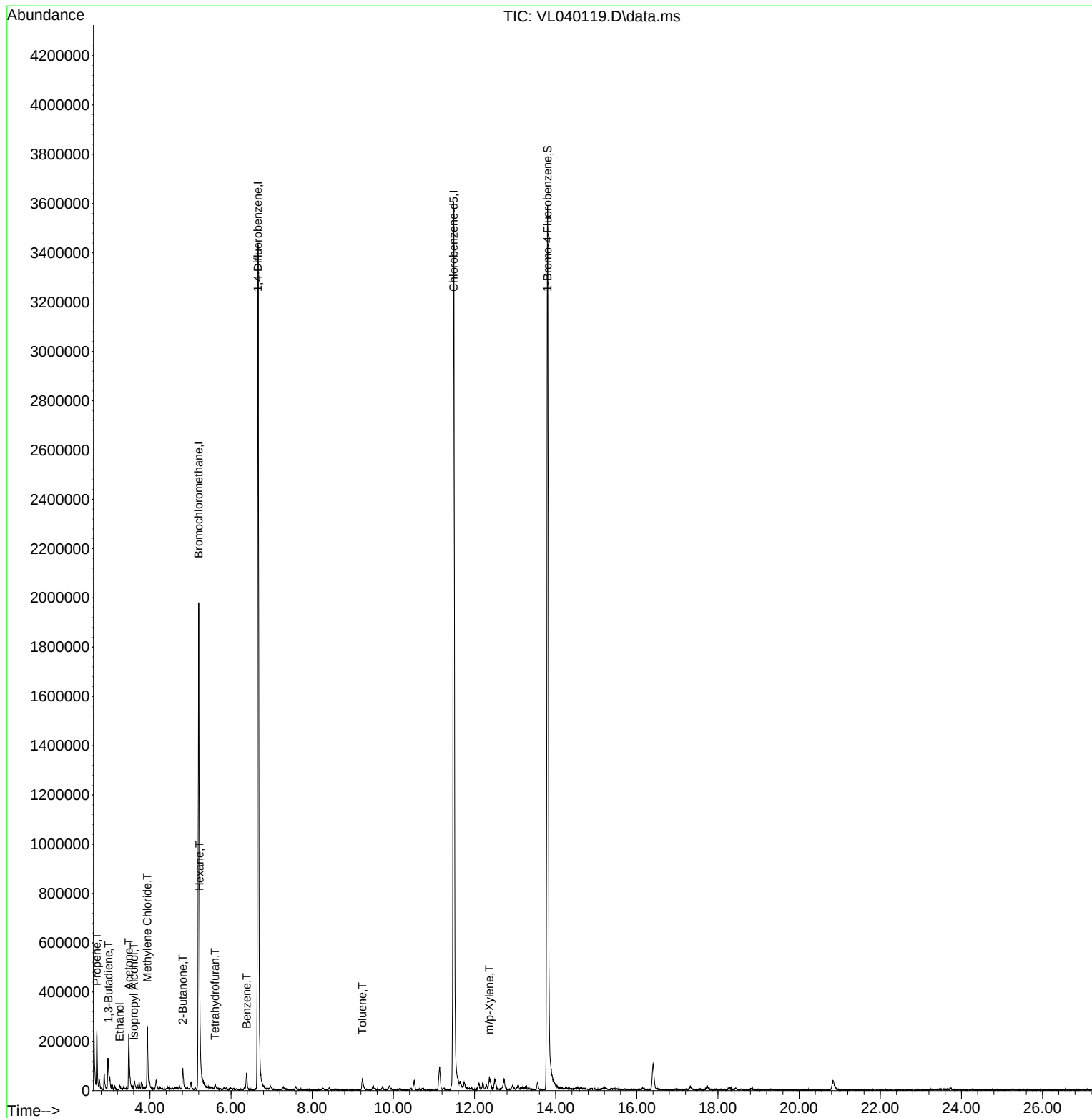
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011923\  
Data File : VL040119.D  
Acq On : 19 Jan 2023 18:48  
Operator : SY/MD  
Sample : 01223-04DL2 40X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

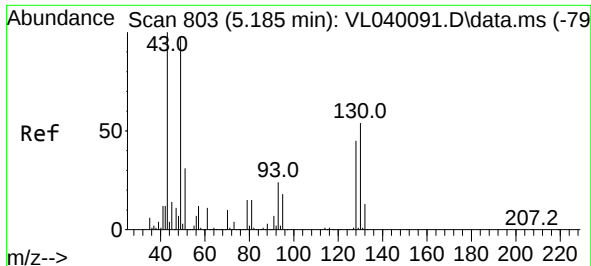
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2

Quant Time: Jan 20 02:09:06 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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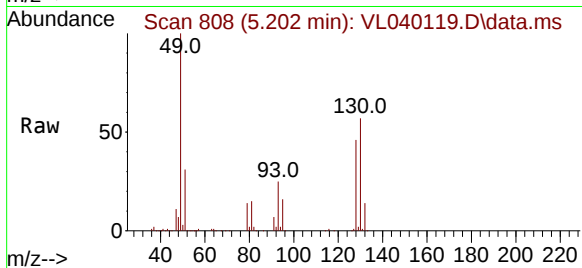
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.202 min Scan# 803  
Delta R.T. 0.017 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

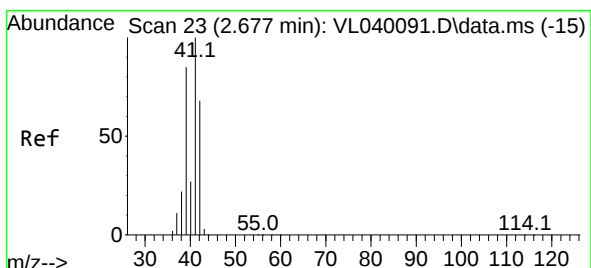
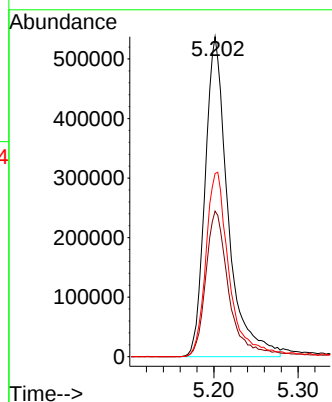
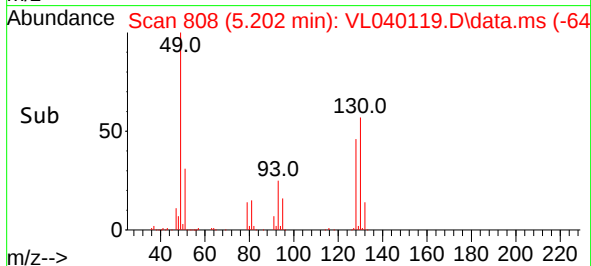
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2



Tgt Ion: 49 Resp: 101427  
Ion Ratio Lower Upper  
49 100  
128 47.7 23.6 71.0  
130 61.4 29.8 89.3

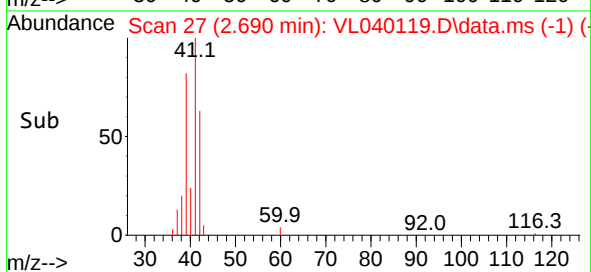
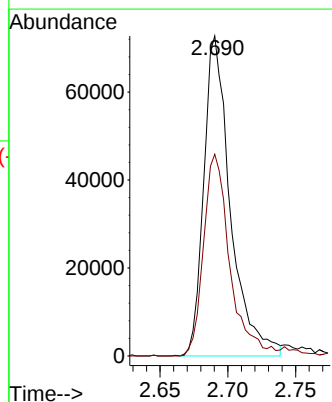
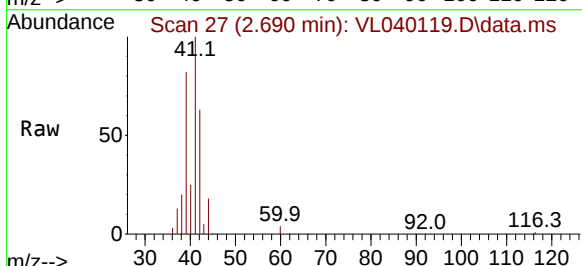
Manual Integrations  
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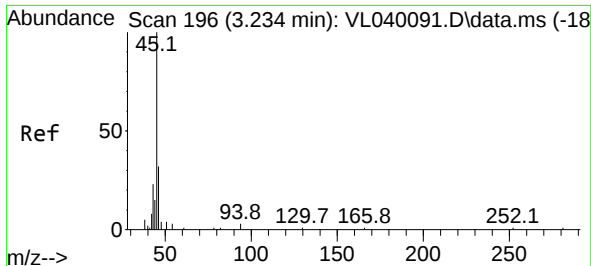
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#9  
Propene  
Concen: 1.967 ppbv  
RT: 2.690 min Scan# 27  
Delta R.T. 0.013 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

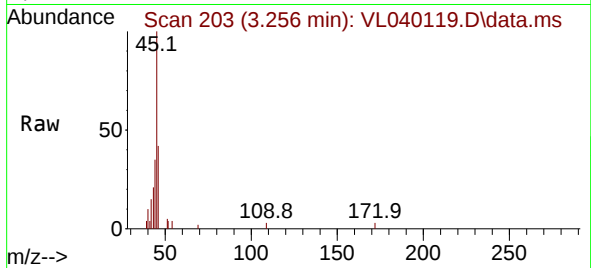
Tgt Ion: 41 Resp: 99401  
Ion Ratio Lower Upper  
41 100  
42 64.6 55.6 83.4





#13  
Ethanol  
Concen: 3.550 ppbv m  
RT: 3.256 min Scan# 203  
Delta R.T. 0.023 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

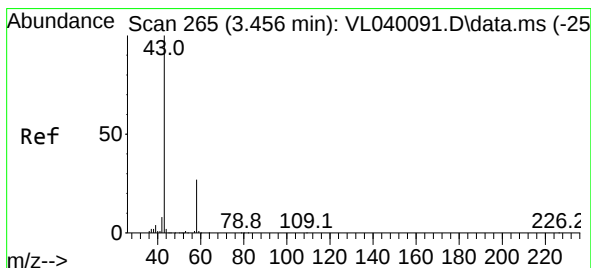
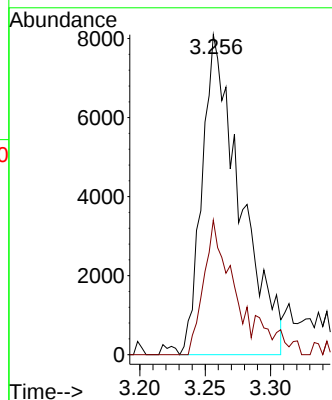
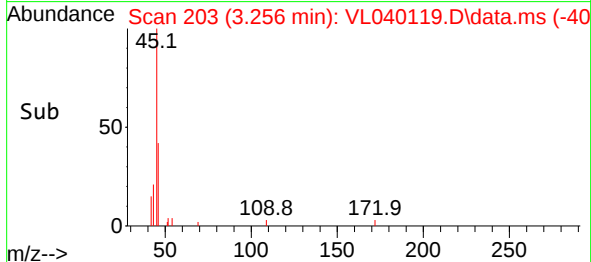
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2



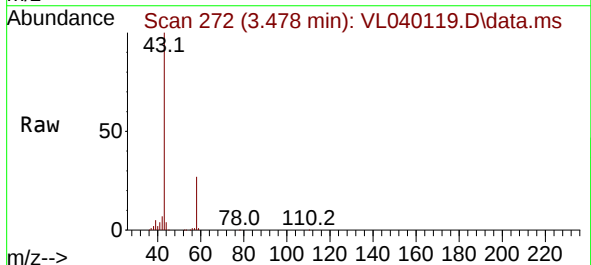
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Ion Ratio Lower Upper  
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46 37.8 14.8 59.2

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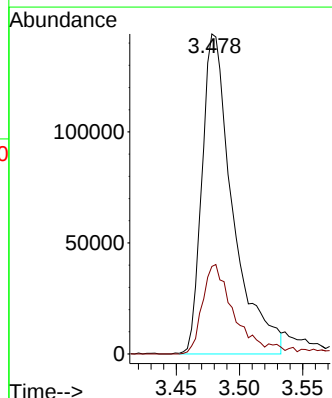
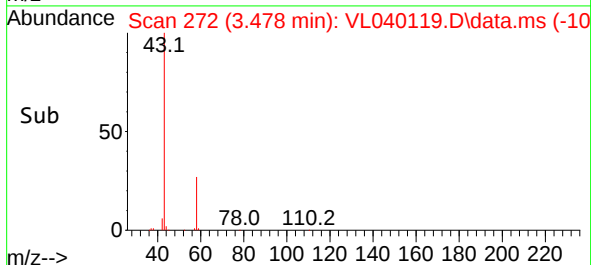
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023

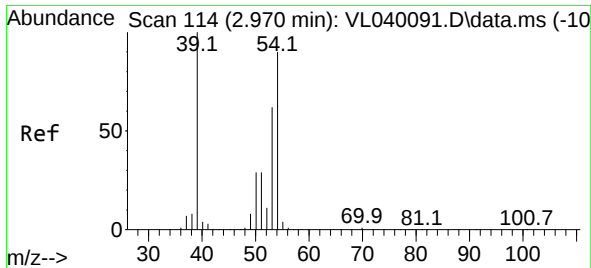


#15  
Acetone  
Concen: 2.012 ppbv m  
RT: 3.478 min Scan# 272  
Delta R.T. 0.023 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48



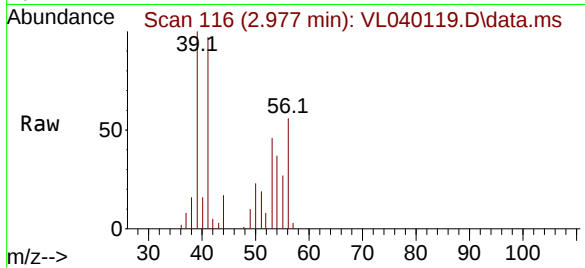
Tgt Ion: 43 Resp: 244702  
Ion Ratio Lower Upper  
43 100  
58 31.5 21.8 32.8





#16  
1,3-Butadiene  
Concen: 0.392 ppbv  
RT: 2.977 min Scan# 114  
Delta R.T. 0.006 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

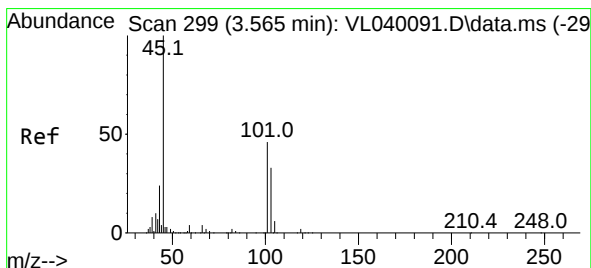
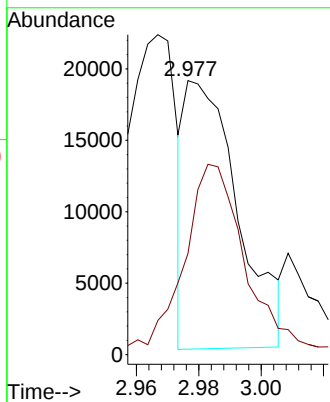
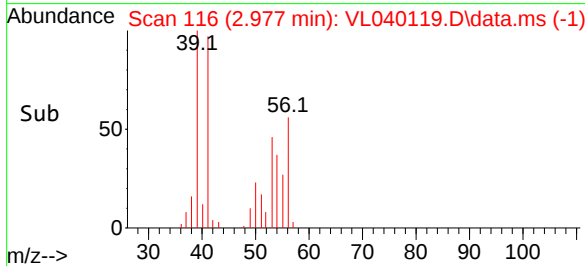
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2



Tgt Ion: 39 Resp: 2225  
Ion Ratio Lower Upper  
39 100  
54 87.9 67.9 101.9

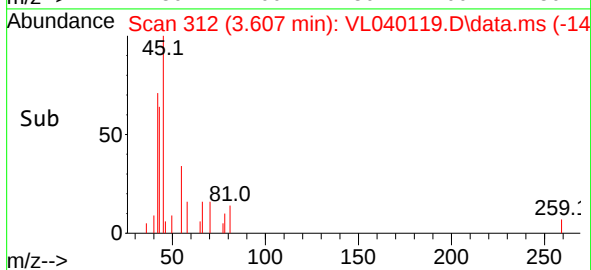
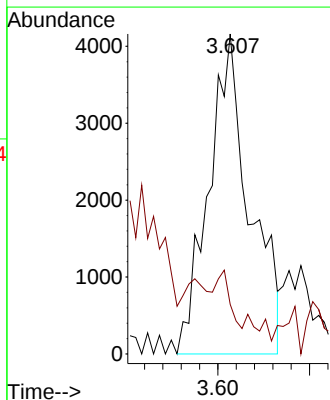
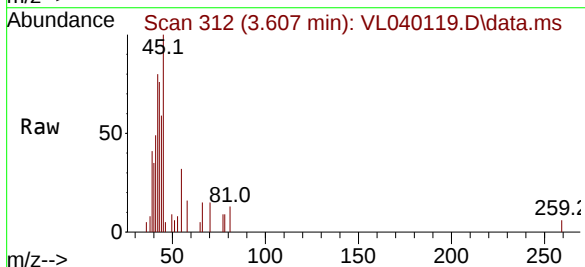
Manual Integrations  
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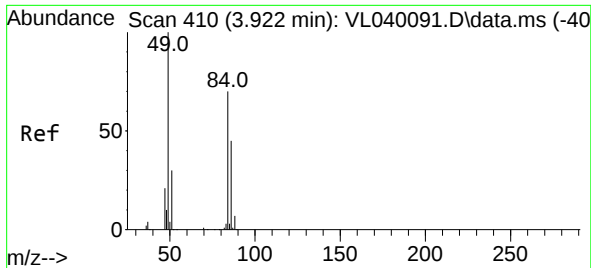
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#19  
Isopropyl Alcohol  
Concen: 0.108 ppbv m  
RT: 3.607 min Scan# 312  
Delta R.T. 0.042 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

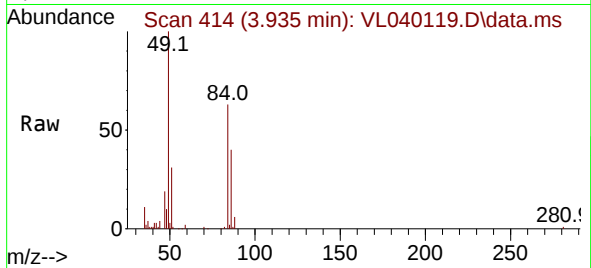
Tgt Ion: 45 Resp: 6442  
Ion Ratio Lower Upper  
45 100  
58 0.0 2.6 4.0#





#20  
Methylene Chloride  
Concen: 1.583 ppbv  
RT: 3.935 min Scan# 411  
Delta R.T. 0.013 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

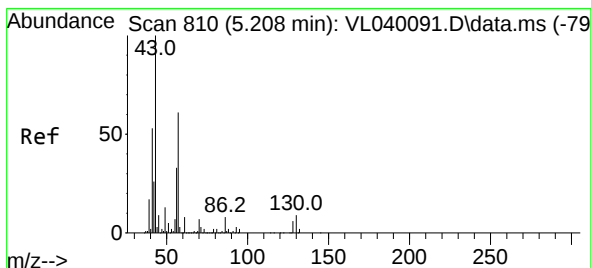
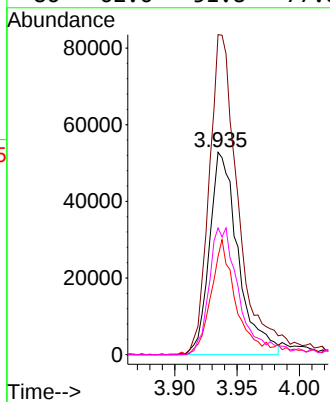
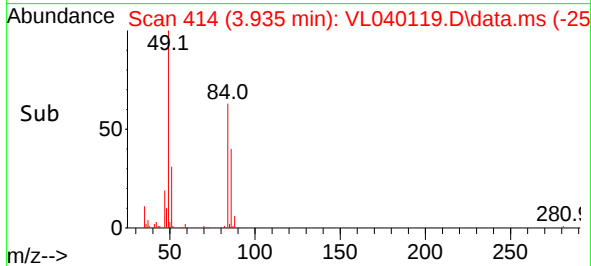
Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2



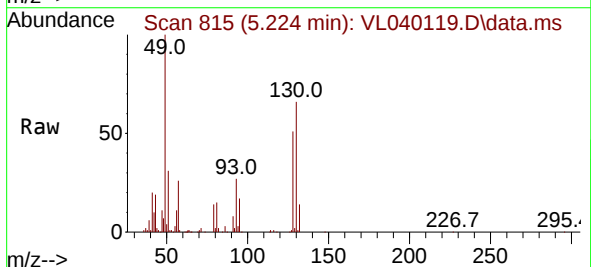
Tgt Ion: 84 Resp: 8495  
Ion Ratio Lower Upper  
84 100  
49 158.1 114.6 171.8  
51 49.3 34.3 51.5  
86 62.6 51.8 77.8

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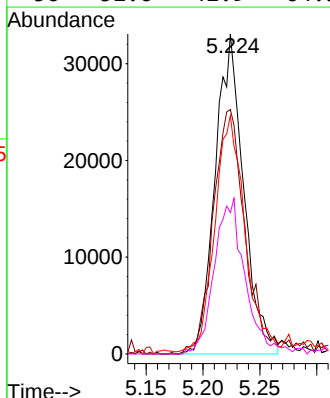
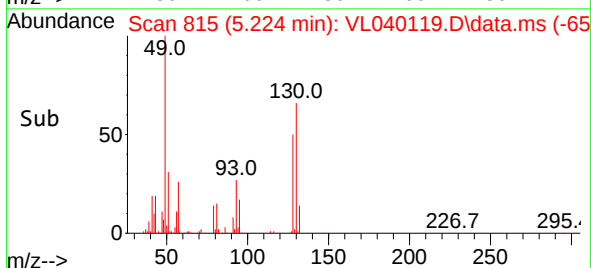
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023

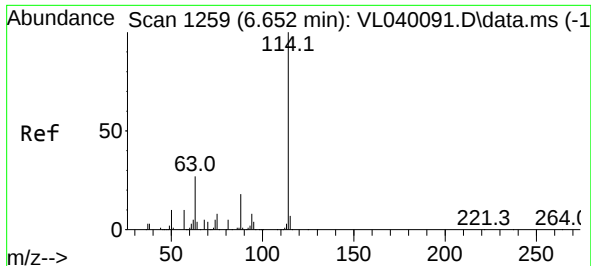


#26  
Hexane  
Concen: 0.614 ppbv m  
RT: 5.224 min Scan# 815  
Delta R.T. 0.016 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48



Tgt Ion: 57 Resp: 57602  
Ion Ratio Lower Upper  
57 100  
41 89.0 72.2 108.4  
43 85.1 192.1 288.1#  
56 52.6 42.9 64.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 114

Delta R.T. 0.013 min

Lab File: VL040119.D

Acq: 19 Jan 2023 18:48

Instrument :

MSVOA\_L

ClientSampleId :

VP-4DL2

Tgt Ion:114 Resp: 2727238

Ion Ratio Lower Upper

114 100

63 25.2 21.8 32.8

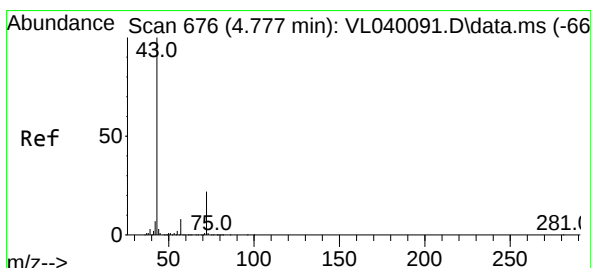
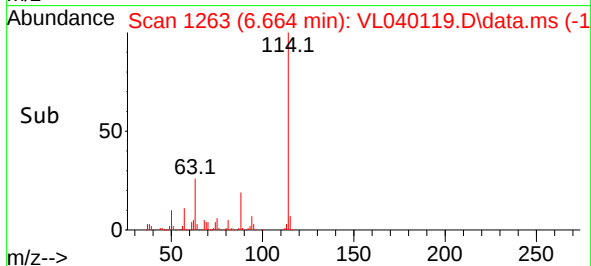
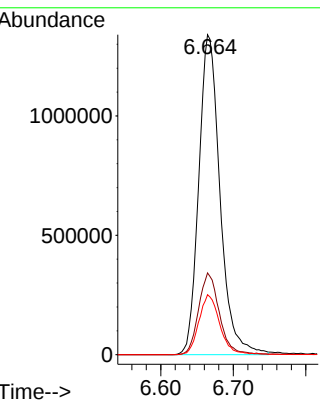
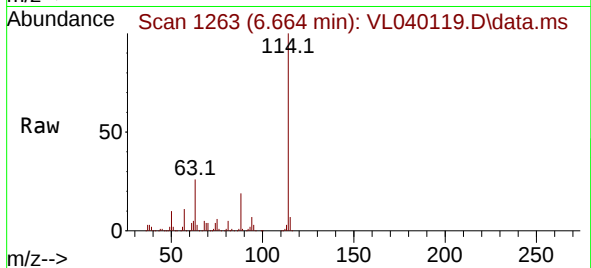
88 18.6 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#34

2-Butanone

Concen: 0.833 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.035 min

Lab File: VL040119.D

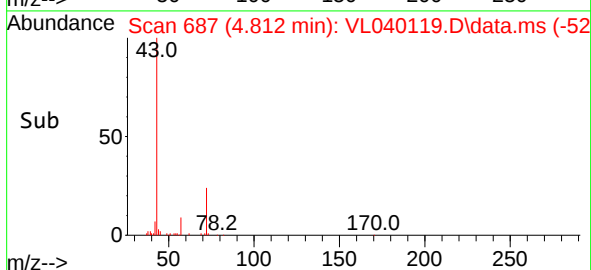
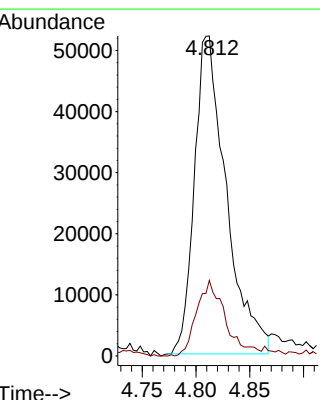
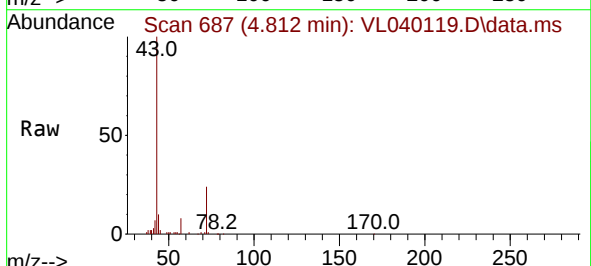
Acq: 19 Jan 2023 18:48

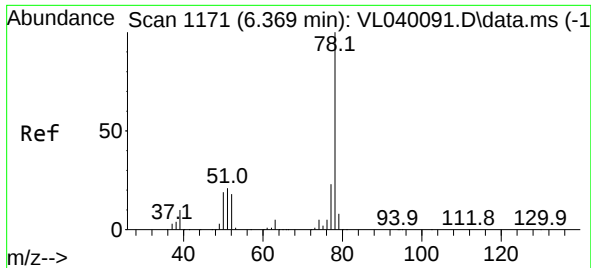
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Ion Ratio Lower Upper

43 100

72 22.5 18.4 27.6





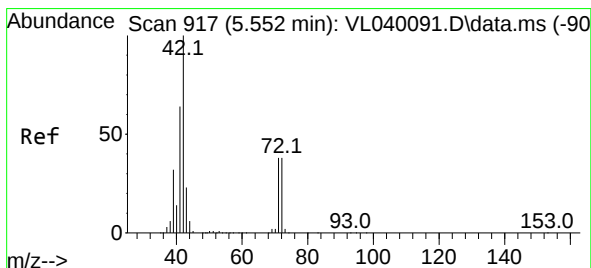
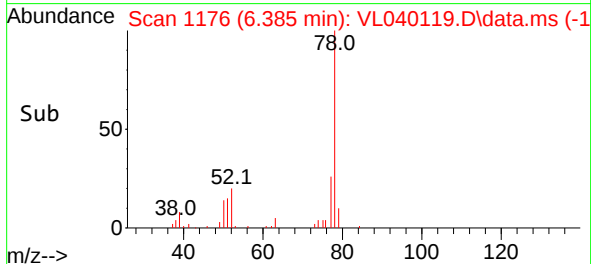
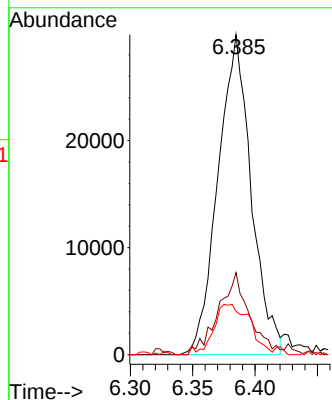
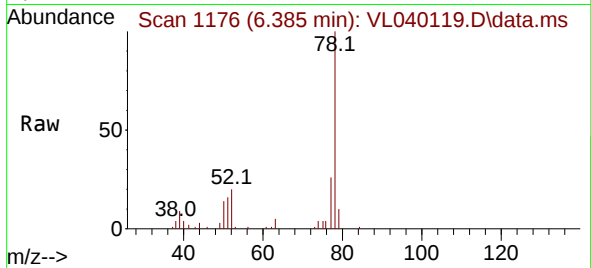
#36  
Benzene  
Concen: 0.274 ppbv  
RT: 6.385 min Scan# 1171  
Delta R.T. 0.016 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2

Tgt Ion: 78 Resp: 5534  
Ion Ratio Lower Upper  
78 100  
77 25.6 18.1 27.1  
50 13.5 15.6 23.4

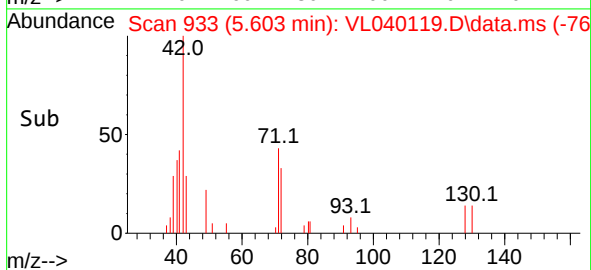
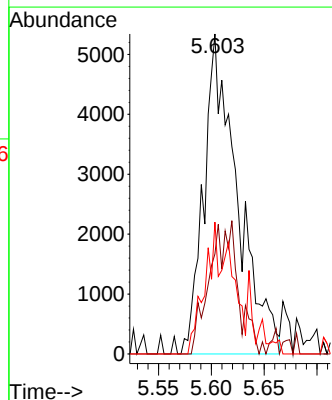
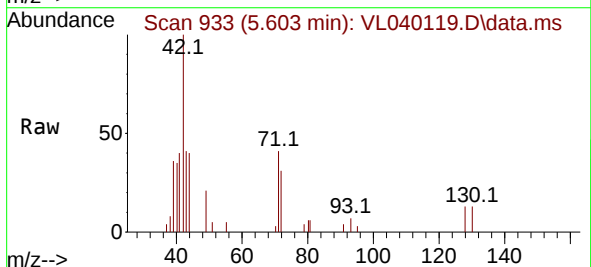
Manual Integrations  
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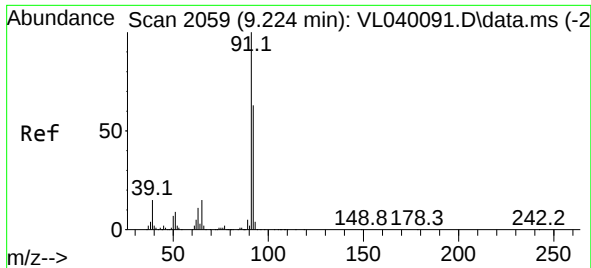
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#41  
Tetrahydrofuran  
Concen: 0.158 ppbv m  
RT: 5.603 min Scan# 933  
Delta R.T. 0.051 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

Tgt Ion: 42 Resp: 11790  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.9 47.9#  
71 38.4 31.4 47.2





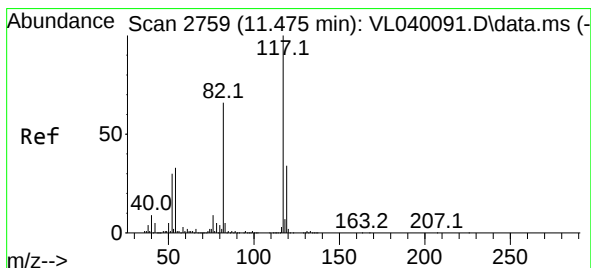
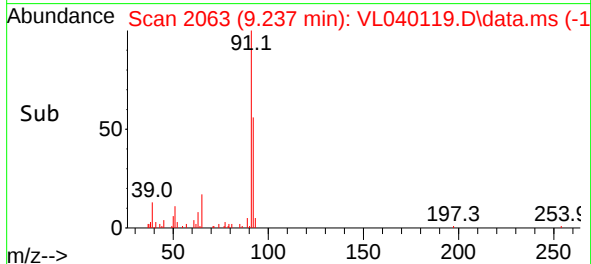
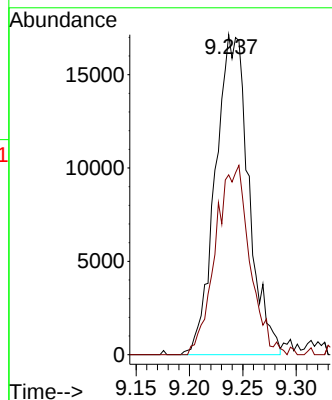
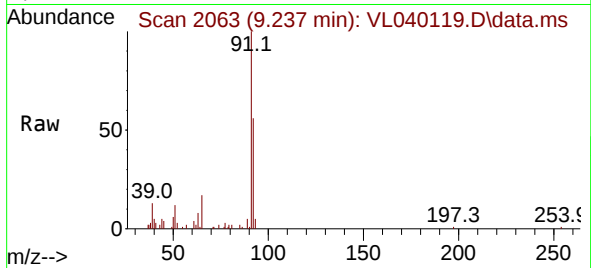
#53  
Toluene  
Concen: 0.173 ppbv m  
RT: 9.237 min Scan# 2059  
Delta R.T. 0.013 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-4DL2

Tgt Ion: 91 Resp: 3721  
Ion Ratio Lower Upper  
91 100  
92 61.1 48.3 72.5

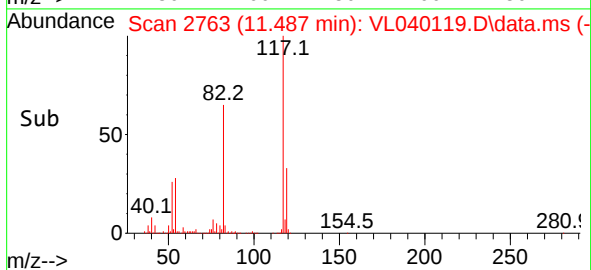
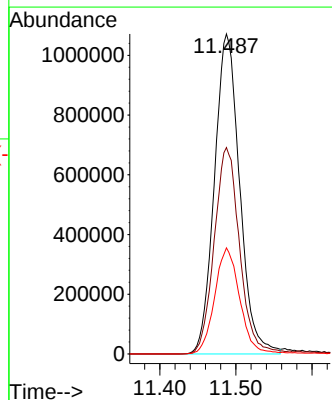
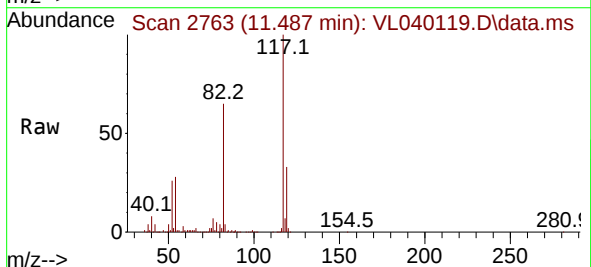
Manual Integrations  
APPROVED

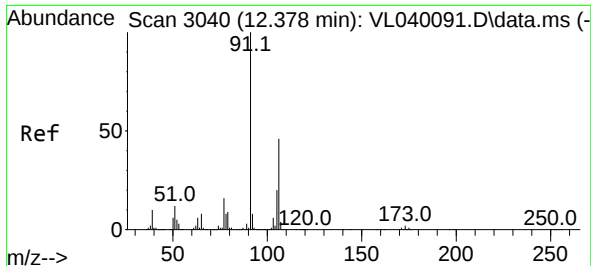
Reviewed By :Semsettin Yesilyurt 01/20/2023  
Supervised By :Mahesh Dadoda 01/20/2023



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.487 min Scan# 2763  
Delta R.T. 0.013 min  
Lab File: VL040119.D  
Acq: 19 Jan 2023 18:48

Tgt Ion:117 Resp: 2469408  
Ion Ratio Lower Upper  
117 100  
82 65.0 54.4 81.6  
119 33.2 26.8 40.2





#59

m/p-Xylene

Concen: 0.171 ppbv m

RT: 12.362 min Scan# 3040

Delta R.T. -0.016 min

Lab File: VL040119.D

Acq: 19 Jan 2023 18:48

Instrument :

MSVOA\_L

ClientSampleId :

VP-4DL2

Tgt Ion: 91 Resp: 42392

Ion Ratio Lower Upper

91 100

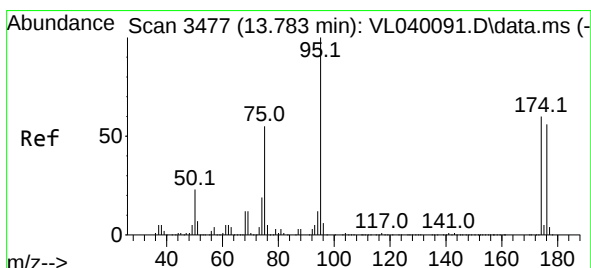
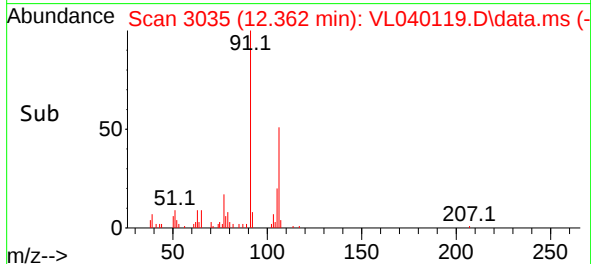
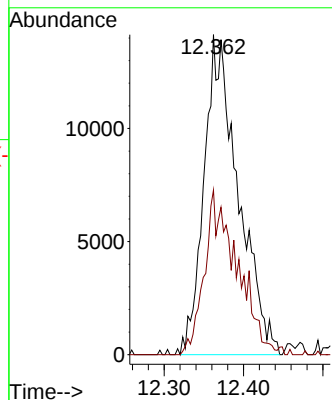
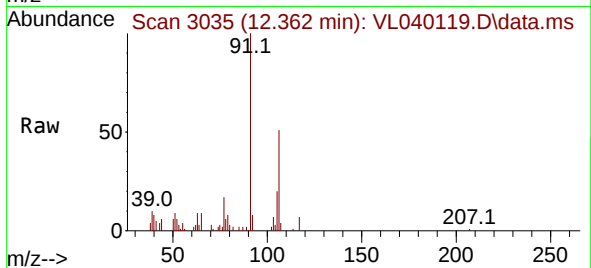
106 0.0 34.2 51.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 9.492 ppbv

RT: 13.799 min Scan# 3482

Delta R.T. 0.016 min

Lab File: VL040119.D

Acq: 19 Jan 2023 18:48

Tgt Ion: 95 Resp: 1948047

Ion Ratio Lower Upper

95 100

174 66.1 47.7 71.5

175 4.7 3.4 5.2

