

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041323\  
 Data File : VL040371.D  
 Acq On : 13 Apr 2023 23:49  
 Operator : SY/MD  
 Sample : 02332-01DLDUP 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-19-20230412DLDUP

Quant Time: Apr 14 08:38:24 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041323AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023  
 QLast Update : Thu Apr 13 14:37:02 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/14/2023  
 Supervised By : Mahesh Dadoda 04/14/2023

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.189  | 49    | 1067553  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.655  | 114   | 2705617  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.475 | 117   | 2477667  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.786 | 95    | 2038435  | 9.949    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.500%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.716  | 85    | 36698    | 0.191    | ppbv # | 85       |
| 9) Propene                  | 2.684  | 41    | 2430934  | 44.110   | ppbv   | 92       |
| 10) Heptane                 | 7.584  | 43    | 153207   | 1.223    | ppbv   | 99       |
| 13) Ethanol                 | 3.234  | 45    | 130283   | 28.318   | ppbv   | 94       |
| 15) Acetone                 | 3.459  | 43    | 1700521  | 11.247   | ppbv   | 99       |
| 17) tert-Butyl alcohol      | 3.877  | 59    | 138545   | 0.998    | ppbv # | 91       |
| 20) Methylene Chloride      | 3.928  | 84    | 23184    | 0.384    | ppbv # | 94       |
| 26) Hexane                  | 5.211  | 57    | 270065   | 2.518    | ppbv # | 36       |
| 27) Carbon Disulfide        | 4.121  | 76    | 41640    | 0.300    | ppbv # | 79       |
| 30) Cyclohexane             | 6.603  | 84    | 25223m   | 0.304    | ppbv   |          |
| 34) 2-Butanone              | 4.787  | 43    | 356624   | 2.444    | ppbv   | 99       |
| 36) Benzene                 | 6.369  | 78    | 319008   | 1.445    | ppbv   | 95       |
| 44) 2,2,4-Trimethylpentane  | 7.330  | 57    | 300493   | 0.815    | ppbv # | 71       |
| 53) Toluene                 | 9.227  | 91    | 941349   | 4.022    | ppbv   | 100      |
| 58) Ethyl Benzene           | 12.102 | 91    | 278813   | 0.915    | ppbv   | 97       |
| 59) m/p-Xylene              | 12.359 | 91    | 820959m  | 2.929    | ppbv   |          |
| 60) o-Xylene                | 13.073 | 91    | 239480m  | 0.890    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

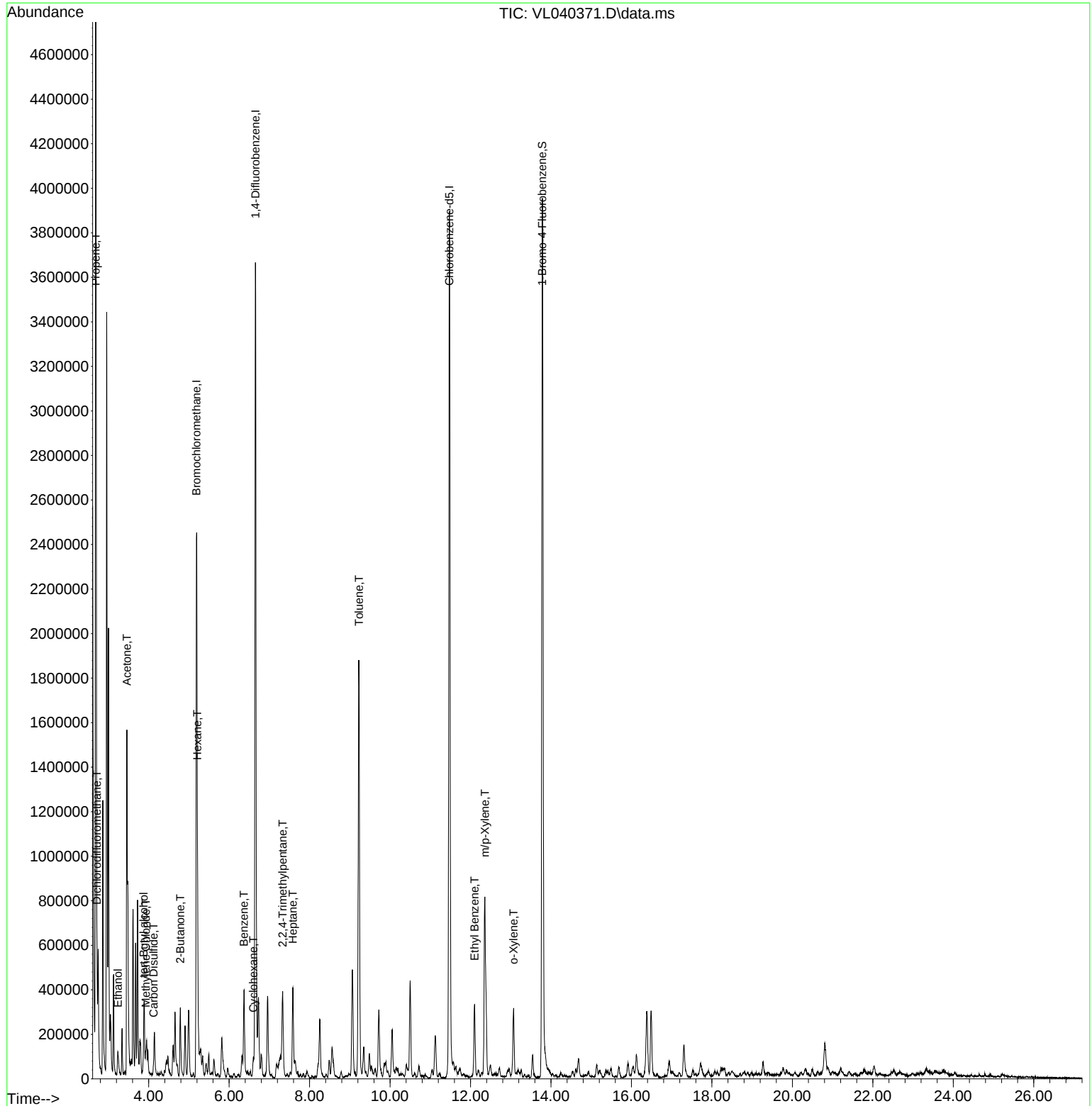
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041323\  
Data File : VL040371.D  
Acq On : 13 Apr 2023 23:49  
Operator : SY/MD  
Sample : 02332-01DLDUP 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

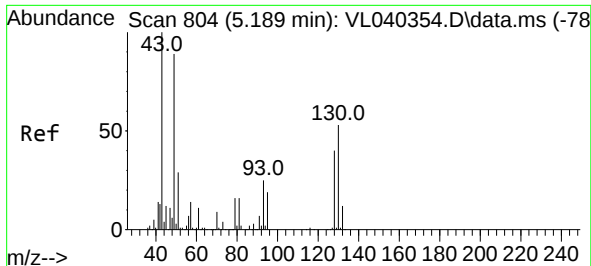
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-19-20230412DLDUP

Quant Time: Apr 14 08:38:24 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041323AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Apr 13 14:37:02 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

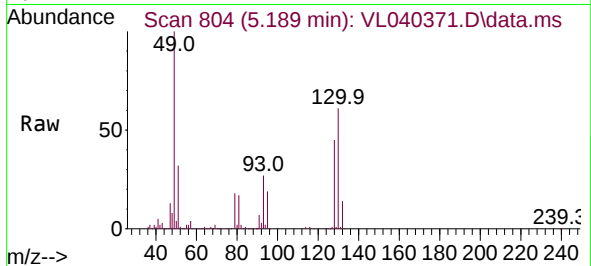
Reviewed By : Semsettin Yesilyurt 04/14/2023  
Supervised By : Mahesh Dadoda 04/14/2023





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.189 min Scan# 804  
Delta R.T. -0.000 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

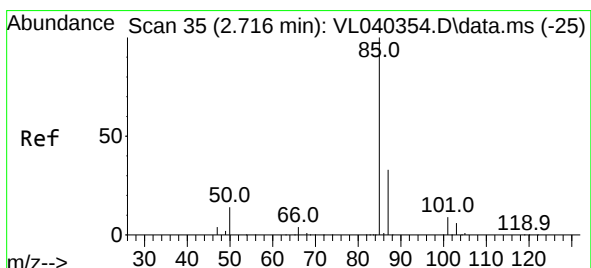
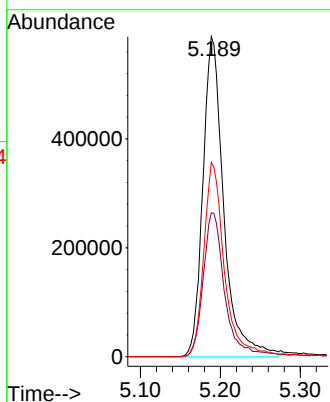
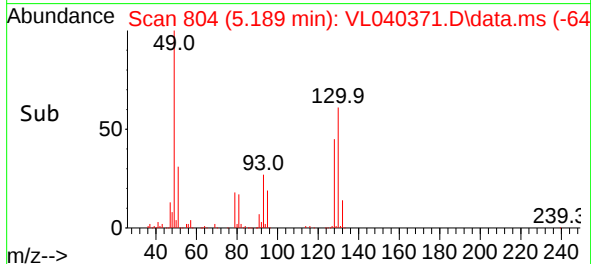
Instrument : MSVOA\_L  
ClientSampleId : SV-19-20230412DLDUP



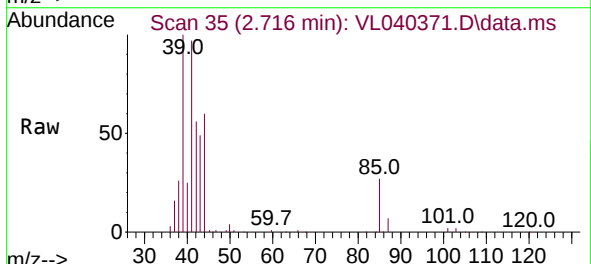
Tgt Ion: 49 Resp: 106755  
Ion Ratio Lower Upper  
49 100  
128 47.4 23.7 71.1  
130 61.0 29.9 89.8

Manual Integrations  
APPROVED

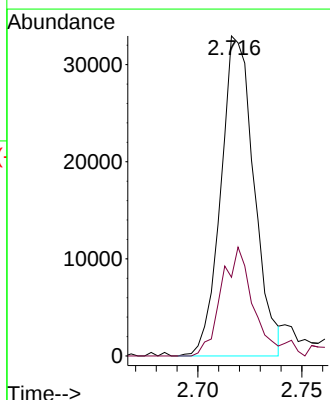
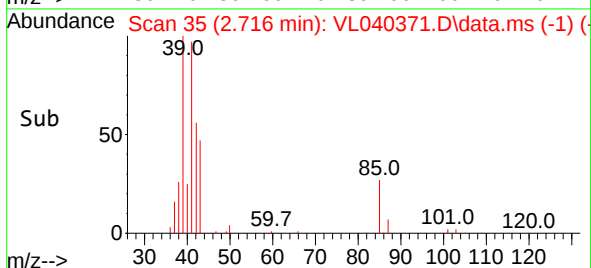
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023

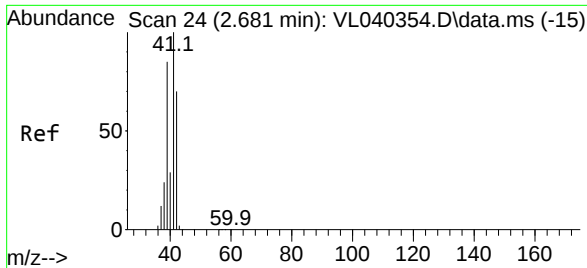


#2  
Dichlorodifluoromethane  
Concen: 0.191 ppbv  
RT: 2.716 min Scan# 35  
Delta R.T. 0.000 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49



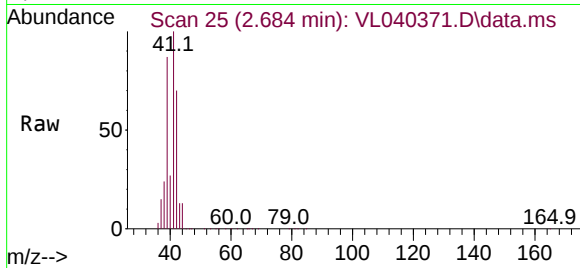
Tgt Ion: 85 Resp: 36698  
Ion Ratio Lower Upper  
85 100  
87 24.6 26.6 40.0#





#9  
 Propene  
 Concen: 44.110 ppbv  
 RT: 2.684 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VL040371.D  
 Acq: 13 Apr 2023 23:49

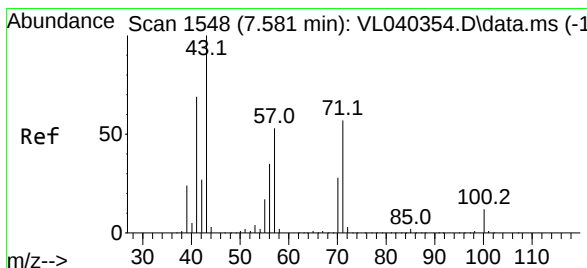
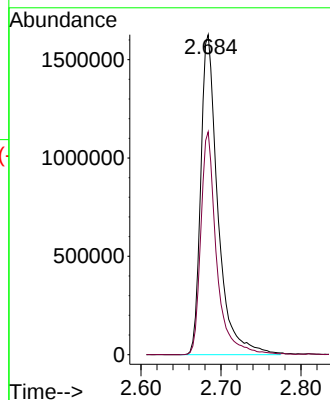
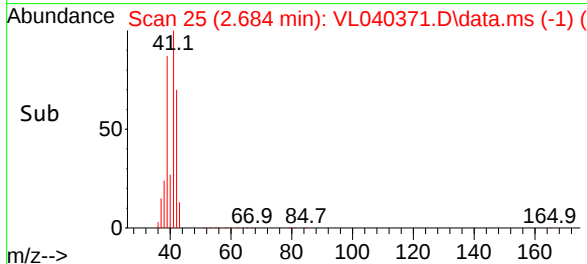
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-19-20230412DLDUP



Tgt Ion: 41 Resp: 2430934  
 Ion Ratio Lower Upper  
 41 100  
 42 64.3 56.5 84.7

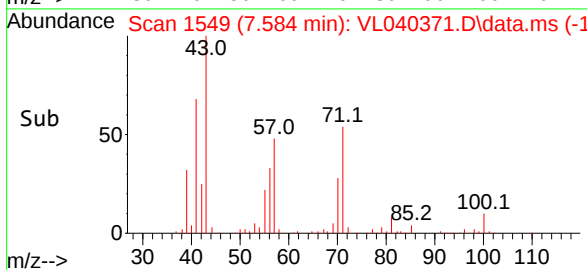
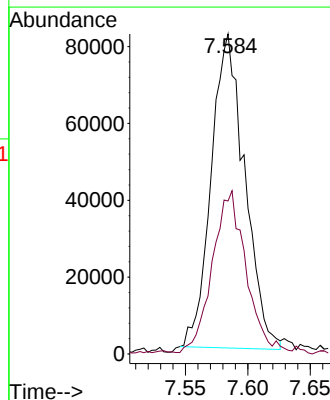
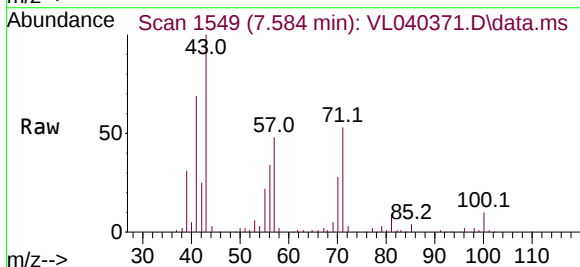
Manual Integrations  
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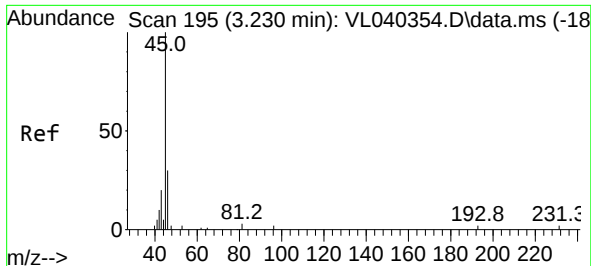
Reviewed By :Semsettin Yesilyurt 04/14/2023  
 Supervised By :Mahesh Dadoda 04/14/2023



#10  
 Heptane  
 Concen: 1.223 ppbv  
 RT: 7.584 min Scan# 1549  
 Delta R.T. 0.003 min  
 Lab File: VL040371.D  
 Acq: 13 Apr 2023 23:49

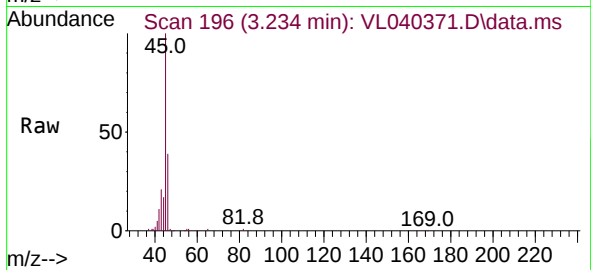
Tgt Ion: 43 Resp: 153207  
 Ion Ratio Lower Upper  
 43 100  
 57 52.0 42.2 63.4





#13  
Ethanol  
Concen: 28.318 ppbv  
RT: 3.234 min Scan# 195  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

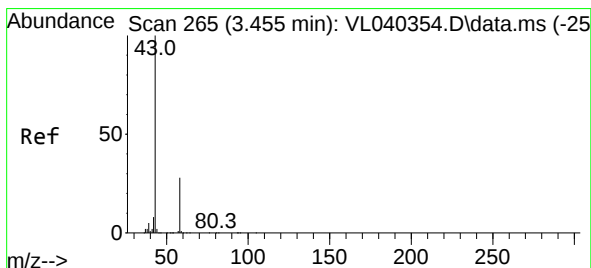
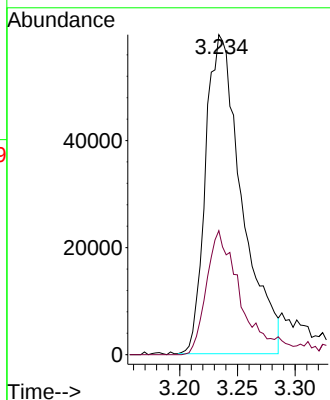
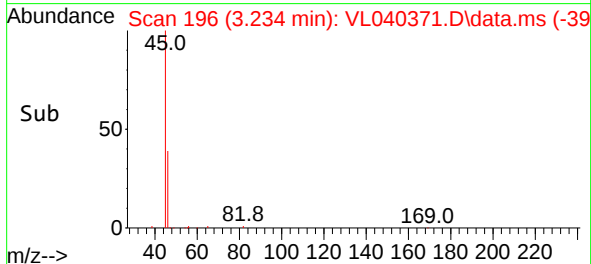
Instrument :  
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SV-19-20230412DLDUP



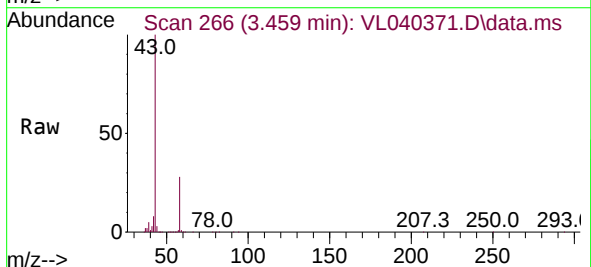
Tgt Ion: 45 Resp: 130283  
Ion Ratio Lower Upper  
45 100  
46 41.7 15.3 61.3

Manual Integrations  
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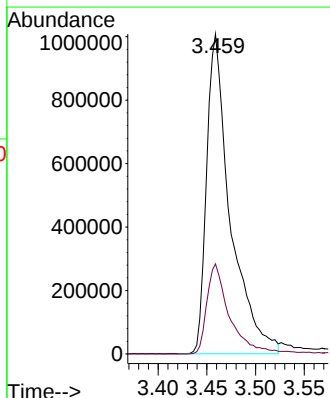
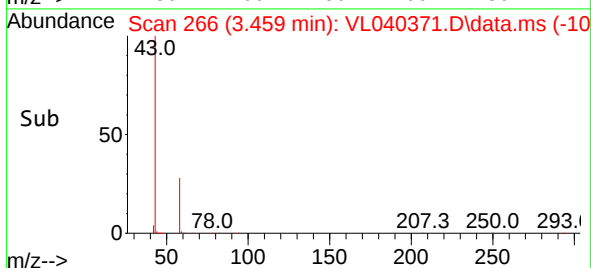
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023

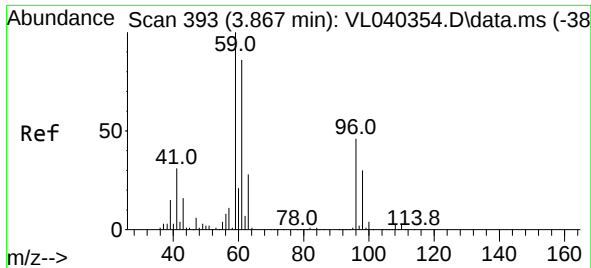


#15  
Acetone  
Concen: 11.247 ppbv  
RT: 3.459 min Scan# 266  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49



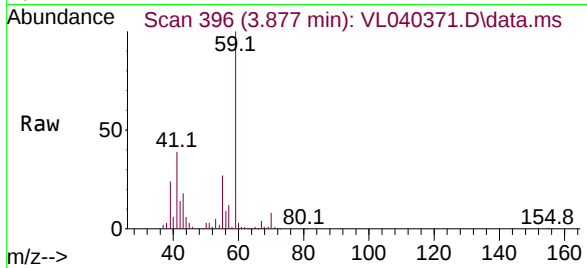
Tgt Ion: 43 Resp: 1700521  
Ion Ratio Lower Upper  
43 100  
58 28.1 22.2 33.2





#17  
tert-Butyl alcohol  
Concen: 0.998 ppbv  
RT: 3.877 min Scan# 393  
Delta R.T. 0.010 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

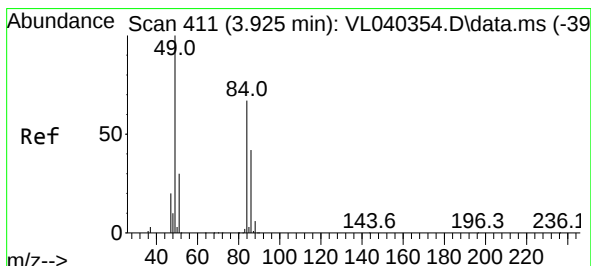
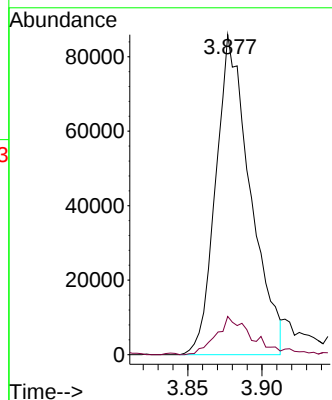
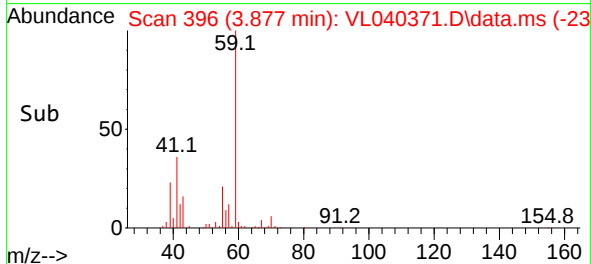
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-19-20230412DLDUP



Tgt Ion: 59 Resp: 13854  
Ion Ratio Lower Upper  
59 100  
57 14.0 8.5 12.7

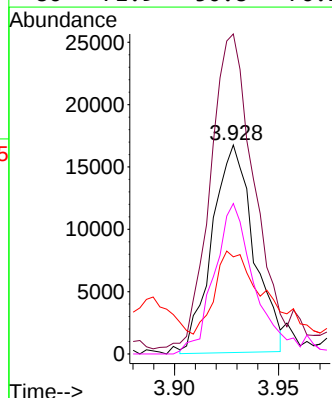
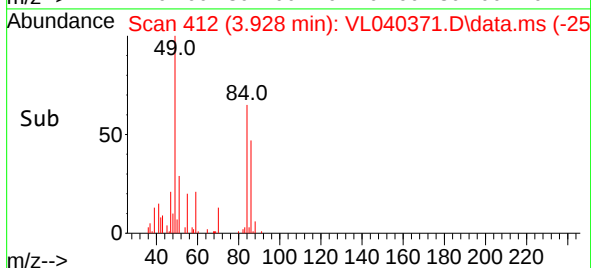
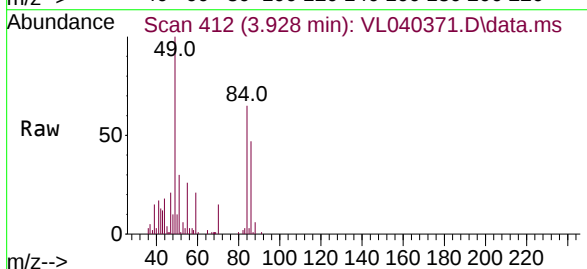
Manual Integrations  
APPROVED

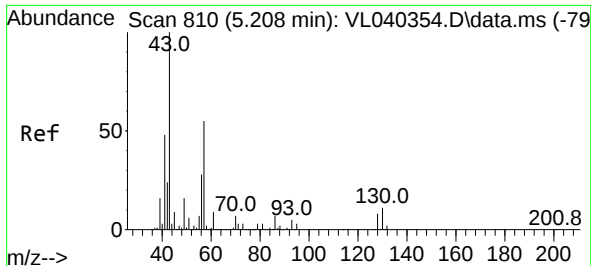
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#20  
Methylene Chloride  
Concen: 0.384 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

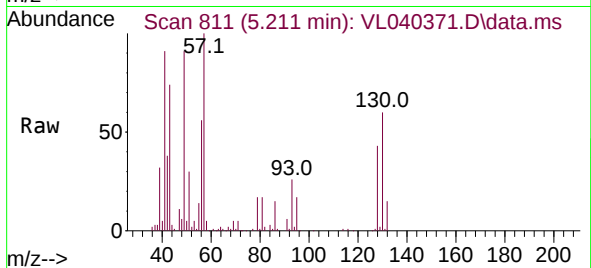
Tgt Ion: 84 Resp: 23184  
Ion Ratio Lower Upper  
84 100  
49 151.0 120.1 180.1  
51 33.8 36.3 54.5#  
86 71.9 50.8 76.2





#26  
Hexane  
Concen: 2.518 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

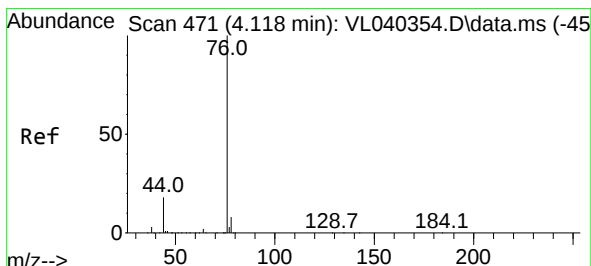
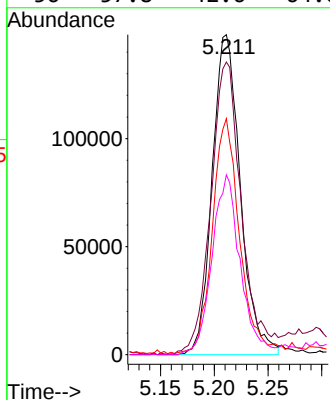
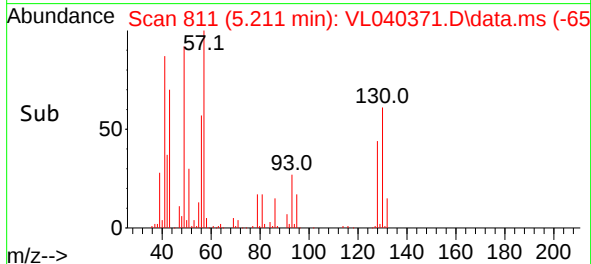
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-19-20230412DLDUP



Tgt Ion: 57 Resp: 270065  
Ion Ratio Lower Upper  
57 100  
41 100.6 74.8 112.2  
43 72.9 192.7 289.1  
56 57.8 42.6 64.0

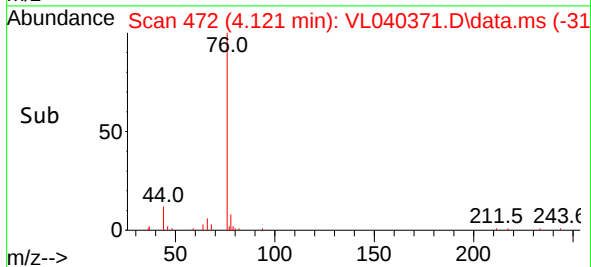
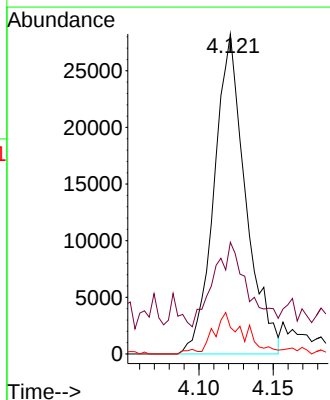
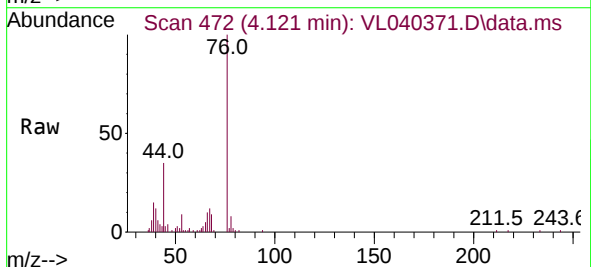
Manual Integrations  
APPROVED

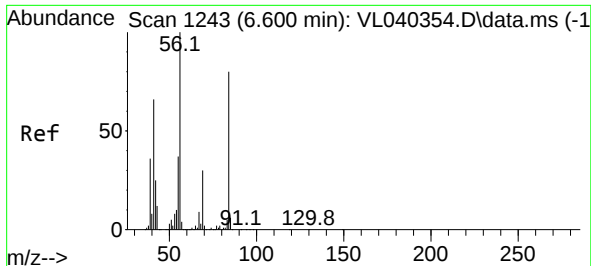
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#27  
Carbon Disulfide  
Concen: 0.300 ppbv  
RT: 4.121 min Scan# 472  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

Tgt Ion: 76 Resp: 41640  
Ion Ratio Lower Upper  
76 100  
44 29.9 14.7 22.1#  
78 13.6 7.7 11.5#





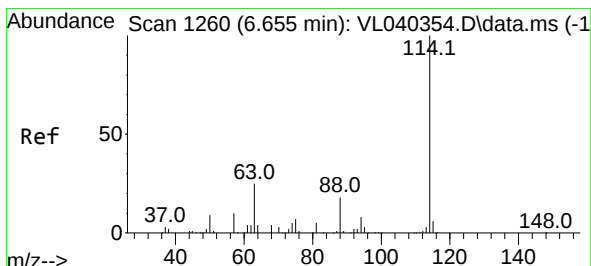
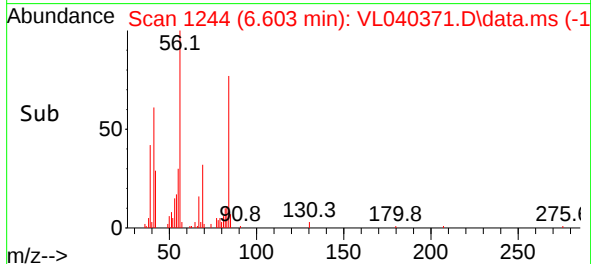
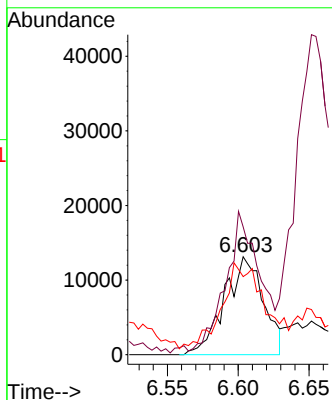
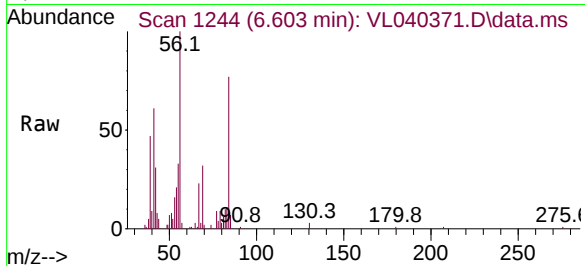
#30  
Cyclohexane  
Concen: 0.304 ppbv m  
RT: 6.603 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-19-20230412DLDUP

Tgt Ion: 84 Resp: 2522  
Ion Ratio Lower Upper  
84 100  
56 132.9 107.0 160.6  
41 88.3 66.7 100.1

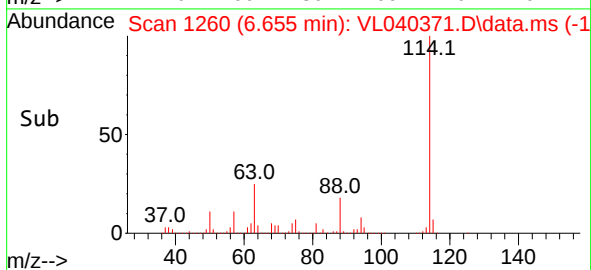
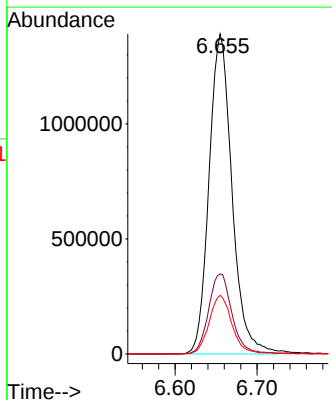
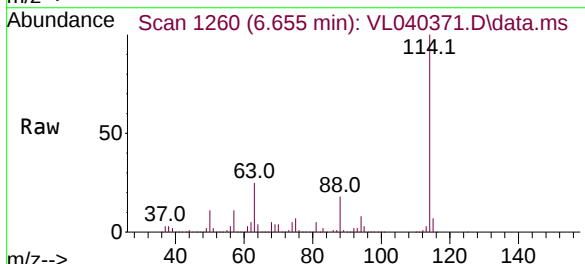
Manual Integrations  
APPROVED

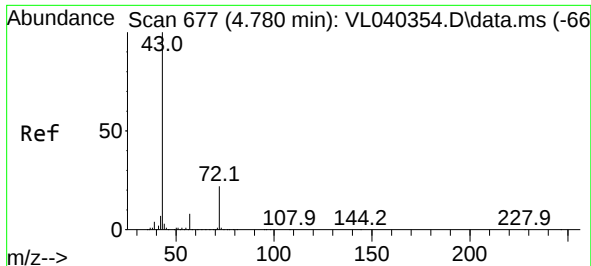
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.655 min Scan# 1260  
Delta R.T. 0.000 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

Tgt Ion:114 Resp: 2705617  
Ion Ratio Lower Upper  
114 100  
63 25.8 21.4 32.0  
88 18.3 14.6 22.0





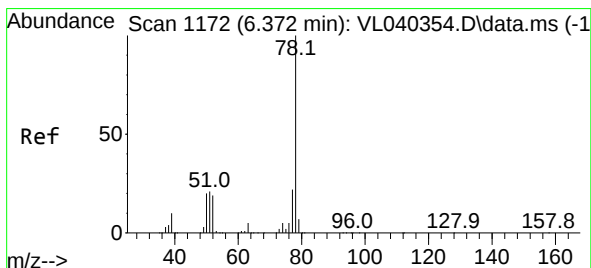
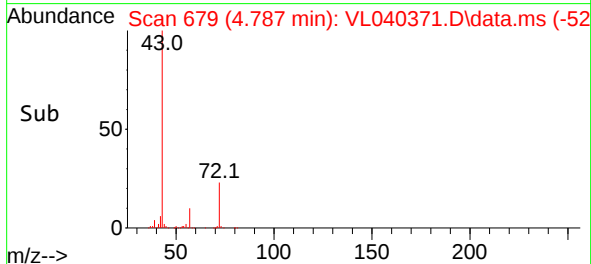
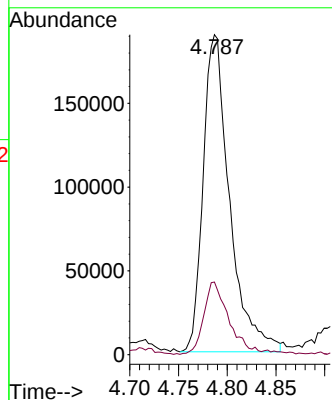
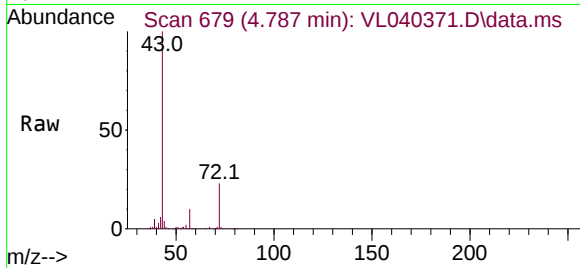
#34  
2-Butanone  
Concen: 2.444 ppbv  
RT: 4.787 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-19-20230412DLDUP

Tgt Ion: 43 Resp: 356624  
Ion Ratio Lower Upper  
43 100  
72 22.6 18.4 27.6

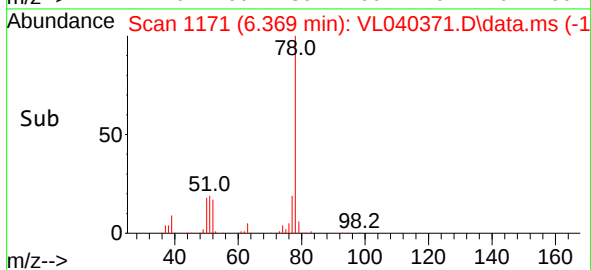
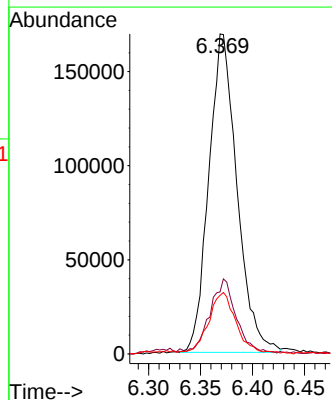
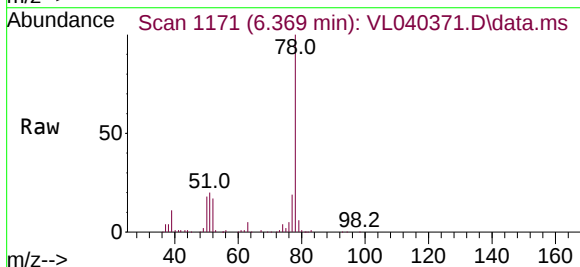
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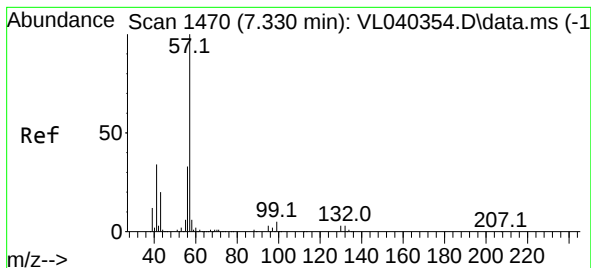
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#36  
Benzene  
Concen: 1.445 ppbv  
RT: 6.369 min Scan# 1171  
Delta R.T. -0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

Tgt Ion: 78 Resp: 319008  
Ion Ratio Lower Upper  
78 100  
77 18.7 17.8 26.8  
50 18.1 15.6 23.4





#44

2,2,4-Trimethylpentane

Concen: 0.815 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VL040371.D

Acq: 13 Apr 2023 23:49

Instrument :

MSVOA\_L

ClientSampleId :

SV-19-20230412DLDUP

Tgt Ion: 57 Resp: 30049

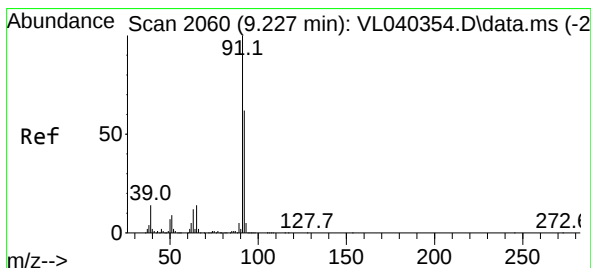
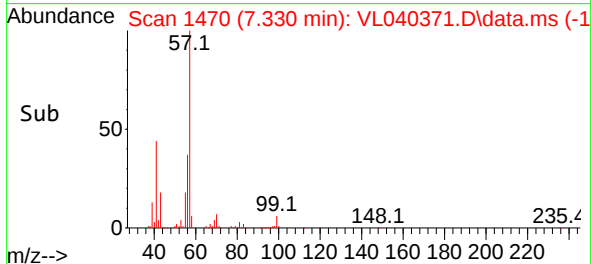
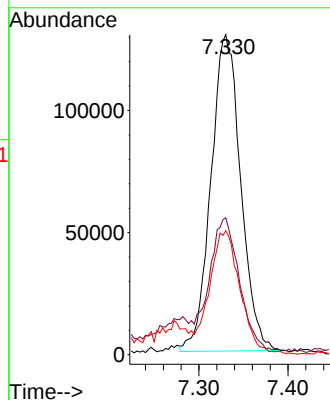
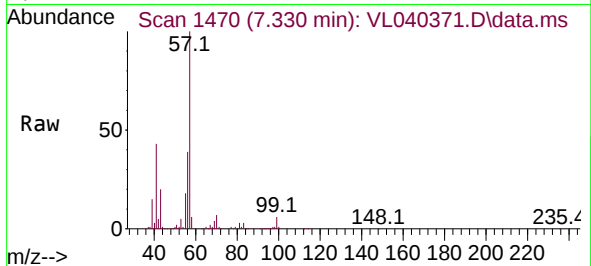
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 56.0  | 26.9  | 40.3  |
| 56  | 41.1  | 25.1  | 37.7  |

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Reviewed By :Semsettin Yesilyurt 04/14/2023

Supervised By :Mahesh Dadoda 04/14/2023



#53

Toluene

Concen: 4.022 ppbv

RT: 9.227 min Scan# 2060

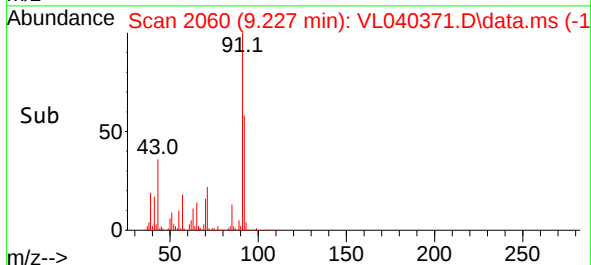
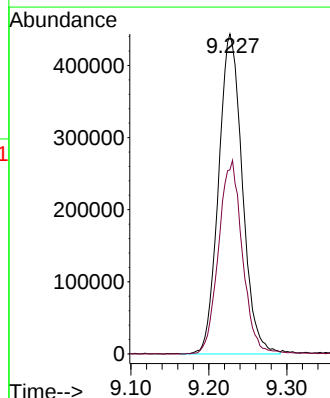
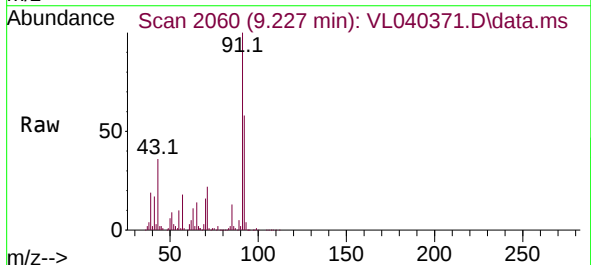
Delta R.T. 0.000 min

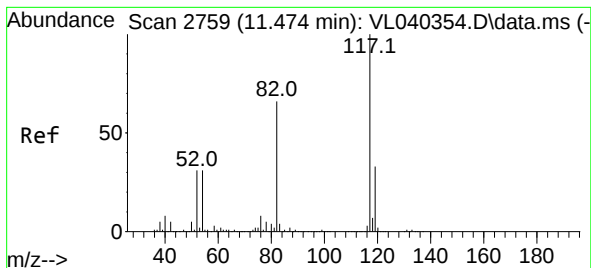
Lab File: VL040371.D

Acq: 13 Apr 2023 23:49

Tgt Ion: 91 Resp: 941349

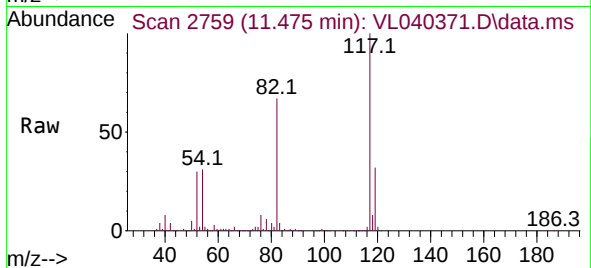
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 61.0  | 48.9  | 73.3  |





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.475 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

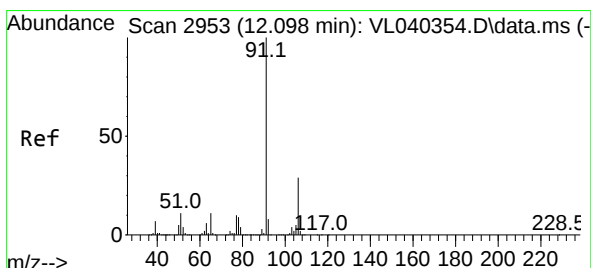
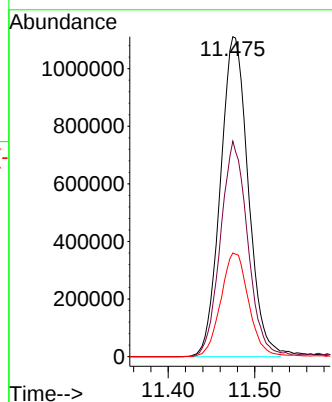
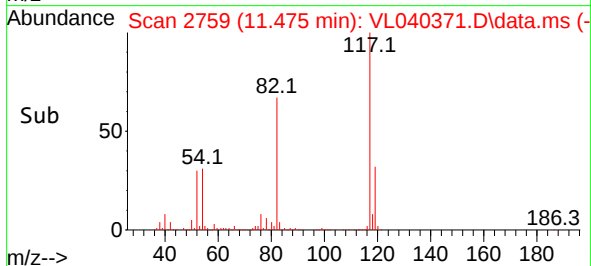
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-19-20230412DLDUP



Tgt Ion: 117 Resp: 247766  
Ion Ratio Lower Upper  
117 100  
82 66.6 52.5 78.7  
119 33.1 24.3 36.5

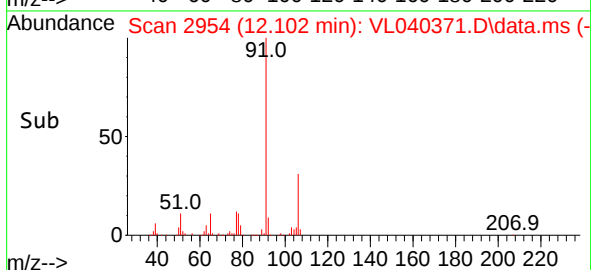
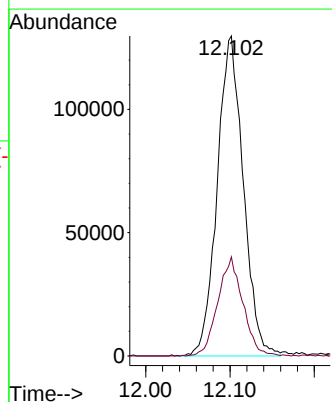
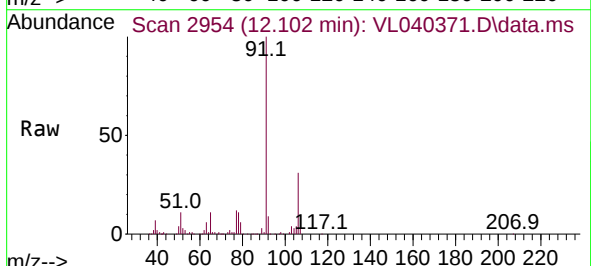
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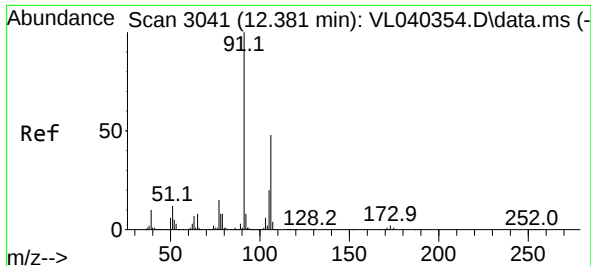
Reviewed By :Semsettin Yesilyurt 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#58  
Ethyl Benzene  
Concen: 0.915 ppbv  
RT: 12.102 min Scan# 2954  
Delta R.T. 0.003 min  
Lab File: VL040371.D  
Acq: 13 Apr 2023 23:49

Tgt Ion: 91 Resp: 278813  
Ion Ratio Lower Upper  
91 100  
106 31.0 23.5 35.3





#59

m/p-Xylene

Concen: 2.929 ppbv m

RT: 12.359 min Scan# 3041

Delta R.T. -0.022 min

Lab File: VL040371.D

Acq: 13 Apr 2023 23:49

Instrument :

MSVOA\_L

ClientSampleId :

SV-19-20230412DLDUP

Tgt Ion: 91 Resp: 820958

Ion Ratio Lower Upper

91 100

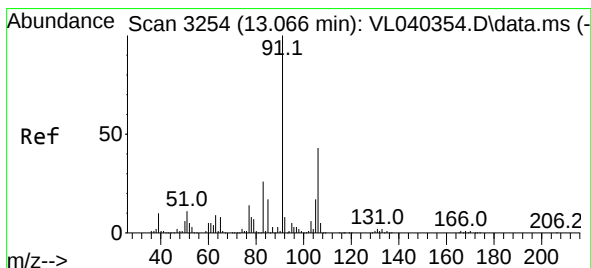
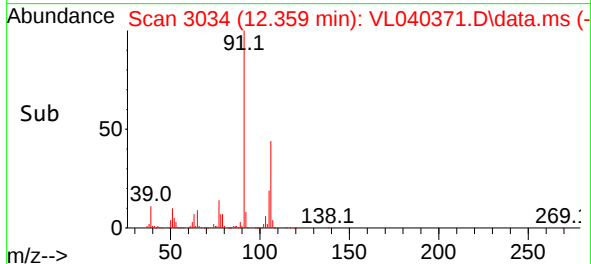
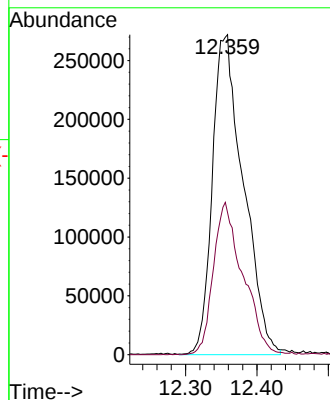
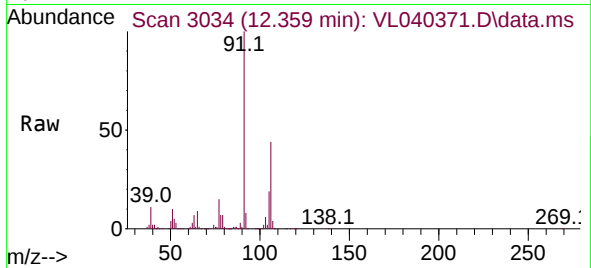
106 45.9 34.7 52.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2023

Supervised By :Mahesh Dadoda 04/14/2023



#60

o-Xylene

Concen: 0.890 ppbv m

RT: 13.073 min Scan# 3256

Delta R.T. 0.007 min

Lab File: VL040371.D

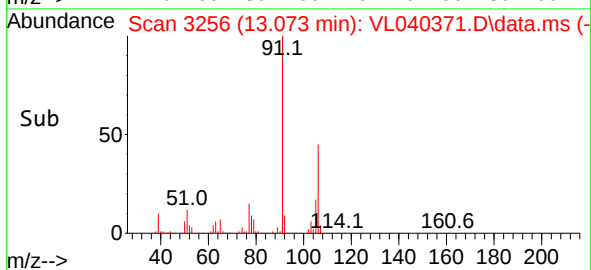
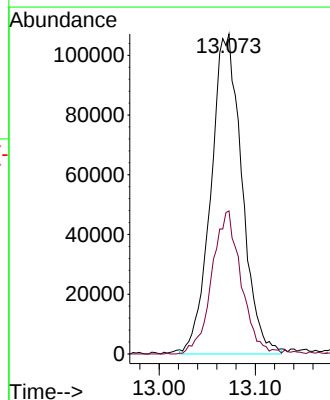
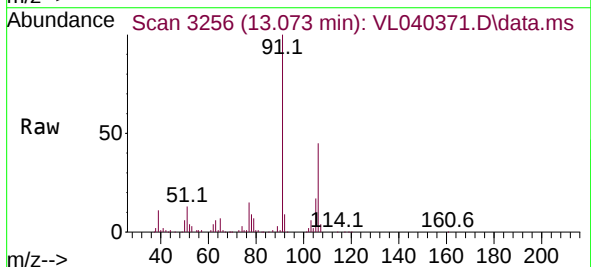
Acq: 13 Apr 2023 23:49

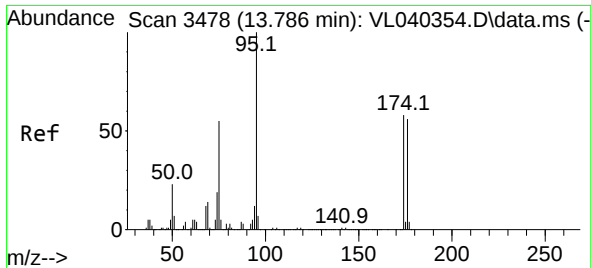
Tgt Ion: 91 Resp: 239480

Ion Ratio Lower Upper

91 100

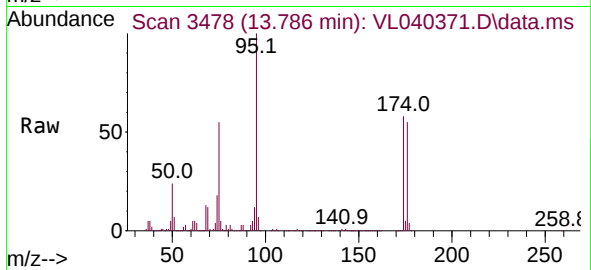
106 0.0 21.9 65.8#





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.949 ppbv  
 RT: 13.786 min Scan# 3478  
 Delta R.T. 0.000 min  
 Lab File: VL040371.D  
 Acq: 13 Apr 2023 23:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-19-20230412DLDUP



Tgt Ion: 95 Resp: 203843  
 Ion Ratio Lower Upper  
 95 100  
 174 59.4 47.2 70.8  
 175 4.3 3.5 5.3

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2023  
 Supervised By :Mahesh Dadoda 04/14/2023

