

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051122\  
 Data File : VL039026.D  
 Acq On : 11 May 2022 19:06  
 Operator : SY/AP  
 Sample : N2753-01DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1DUP

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2022  
 Supervised By :Mahesh Dadoda 05/16/2022

Quant Time: May 12 01:57:42 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LThu May 05 10:12:15 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.648  | 49    | 933001   | 10.000   | ppbv   | -0.02    |
| 33) 1,4-Difluorobenzene     | 7.153  | 114   | 2469808  | 10.000   | ppbv   | -0.02    |
| 55) Chlorobenzene-d5        | 12.057 | 117   | 2058636  | 10.000   | ppbv   | -0.02    |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 14.391 | 95    | 1598581  | 9.805    | ppbv   | -0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.100%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 3.041  | 85    | 46522    | 0.318    | ppbv   | 93       |
| 3) Chlorodifluoromethane    | 2.980  | 51    | 40616m   | 0.351    | ppbv   |          |
| 4) Chloromethane            | 3.134  | 50    | 39776m   | 0.686    | ppbv   |          |
| 9) Propene                  | 3.012  | 41    | 37634m   | 0.744    | ppbv   |          |
| 11) Trichlorofluoromethane  | 3.931  | 101   | 29936m   | 0.239    | ppbv   |          |
| 13) Ethanol                 | 3.591  | 45    | 226666   | 63.351   | ppbv   | 84       |
| 15) Acetone                 | 3.835  | 43    | 1040753  | 11.825   | ppbv   | 97       |
| 19) Isopropyl Alcohol       | 3.957  | 45    | 90202    | 2.156    | ppbv # | 1        |
| 20) Methylene Chloride      | 4.330  | 84    | 776200   | 23.400   | ppbv   | 96       |
| 26) Hexane                  | 5.671  | 57    | 1077351  | 11.511   | ppbv # | 39       |
| 29) Chloroform              | 5.732  | 83    | 40309    | 0.266    | ppbv   | 94       |
| 34) 2-Butanone              | 5.230  | 43    | 62376m   | 0.495    | ppbv   |          |
| 35) Carbon Tetrachloride    | 7.002  | 117   | 8830     | 0.054    | ppbv # | 77       |
| 36) Benzene                 | 6.870  | 78    | 29280    | 0.139    | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane  | 7.844  | 57    | 43883m   | 0.118    | ppbv   |          |
| 50) 4-Methyl-2-Pentanone    | 8.738  | 43    | 23006m   | 0.104    | ppbv   |          |
| 52) Tetrachloroethene       | 11.204 | 164   | 2542m    | 0.034    | ppbv   |          |
| 53) Toluene                 | 9.780  | 91    | 85275    | 0.360    | ppbv   | 100      |
| 58) Ethyl Benzene           | 12.684 | 91    | 32294m   | 0.109    | ppbv   |          |
| 59) m/p-Xylene              | 12.934 | 91    | 74619m   | 0.295    | ppbv   |          |
| 60) o-Xylene                | 13.664 | 91    | 31914m   | 0.134    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 16.732 | 105   | 39339m   | 0.147    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

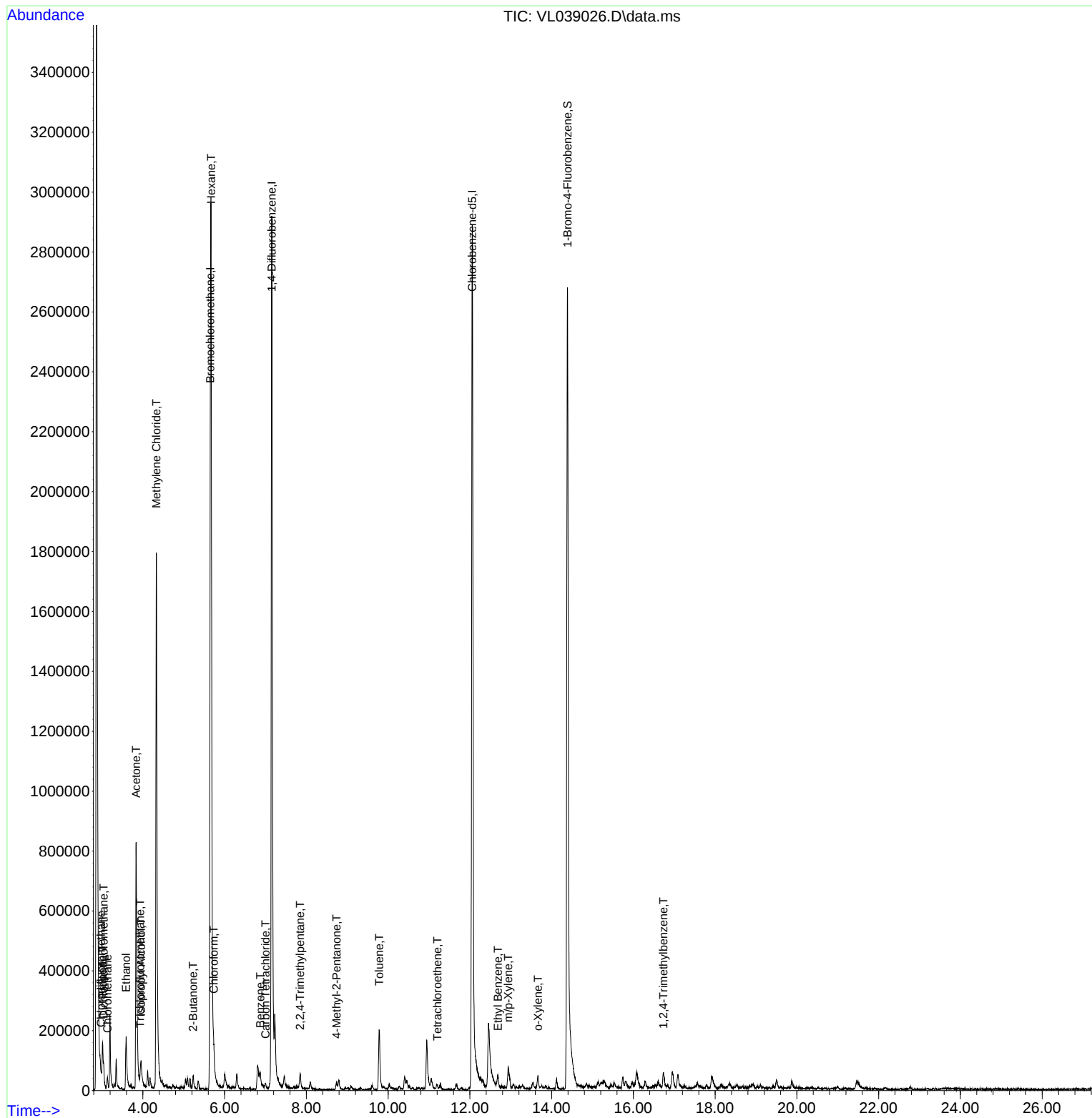
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051122\  
Data File : VL039026.D  
Acq On : 11 May 2022 19:06  
Operator : SY/AP  
Sample : N2753-01DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

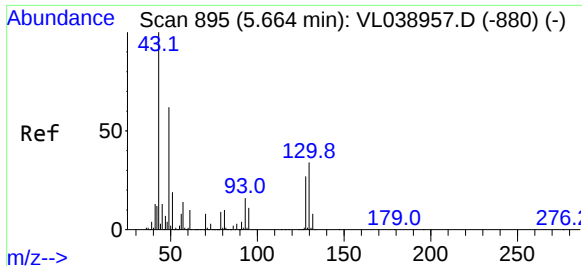
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Quant Time: May 12 01:57:42 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May  
QLast Update : Thu May 05 10:12:15 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

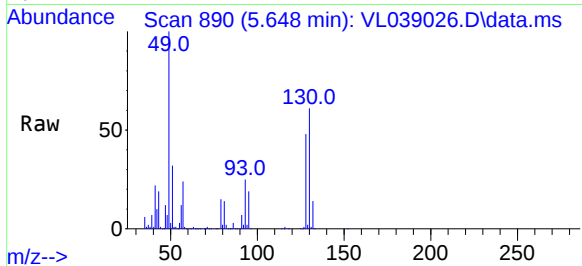
Reviewed By : Semsettin Yesilyurt 05/15/2022  
Supervised By : Mahesh Dadoda 05/16/2022





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.648 min Scan# 89  
Delta R.T. -0.016 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

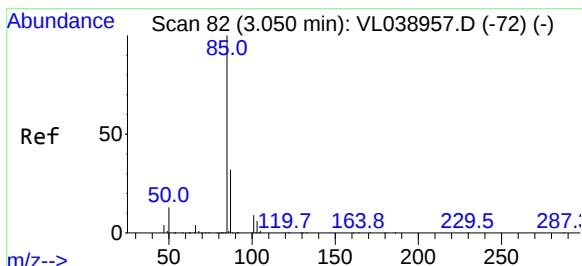
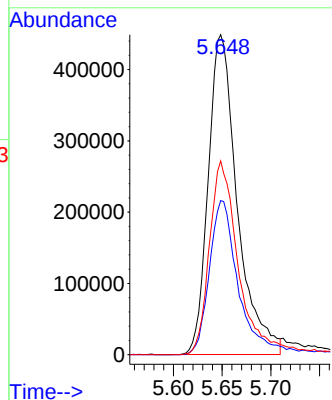
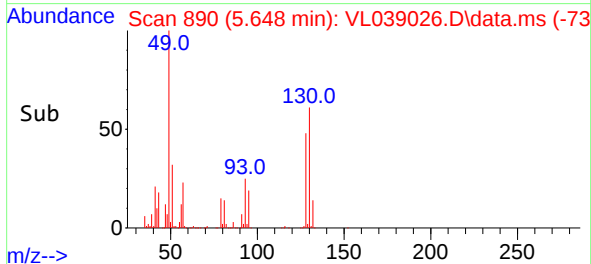
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion: 49 Resp: 93300  
Ion Ratio Lower Upper  
49 100  
128 49.8 23.3 69.8  
130 62.8 29.8 89.3

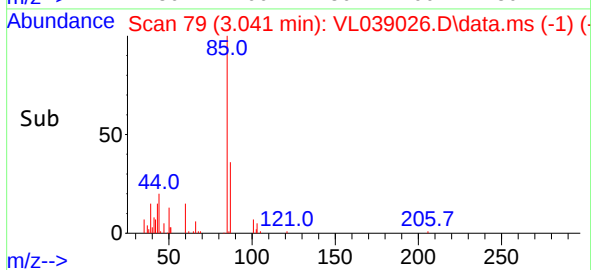
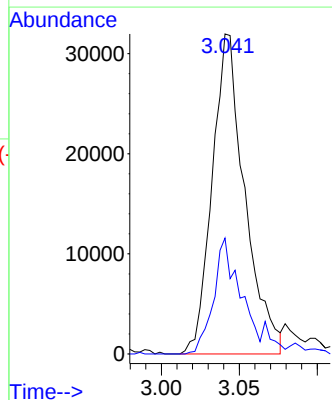
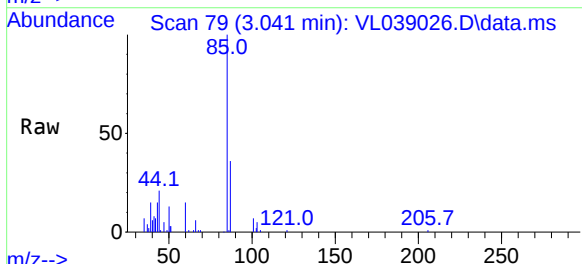
Manual Integrations  
APPROVED

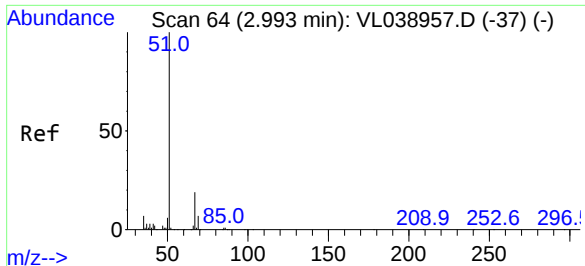
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022



#2  
Dichlorodifluoromethane  
Concen: 0.318 ppbv  
RT: 3.041 min Scan# 79  
Delta R.T. -0.010 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

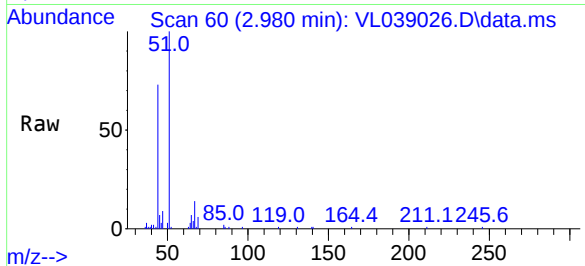
Tgt Ion: 85 Resp: 46522  
Ion Ratio Lower Upper  
85 100  
87 36.2 25.7 38.5





#3  
Chlorodifluoromethane  
Concen: 0.351 ppbv m  
RT: 2.980 min Scan# 60  
Delta R.T. -0.013 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

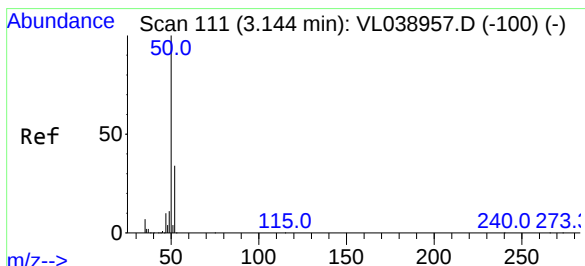
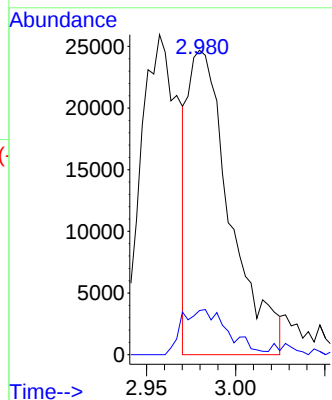
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion: 51 Resp: 40610  
Ion Ratio Lower Upper  
51 100  
67 18.2 15.8 23.8

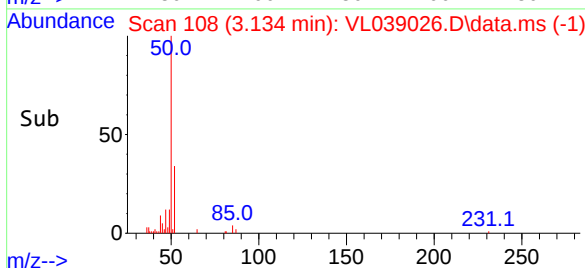
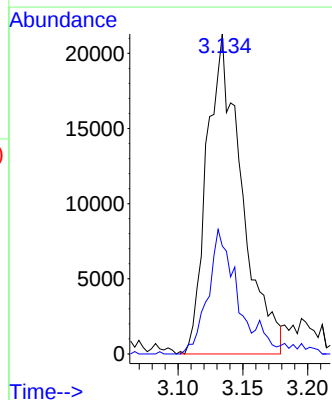
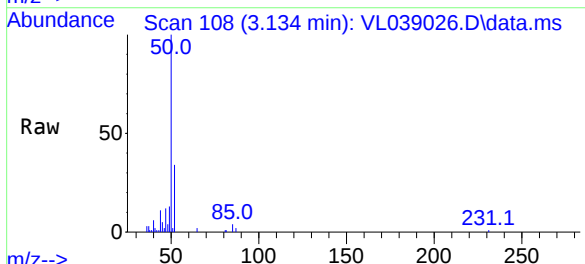
Manual Integrations  
APPROVED

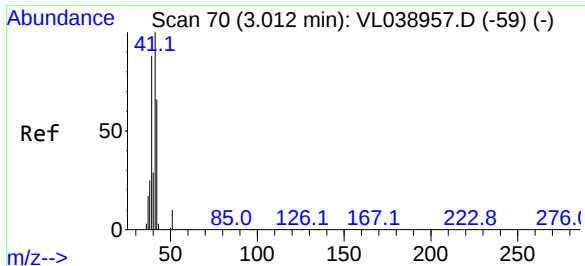
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022



#4  
Chloromethane  
Concen: 0.686 ppbv m  
RT: 3.134 min Scan# 108  
Delta R.T. -0.010 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

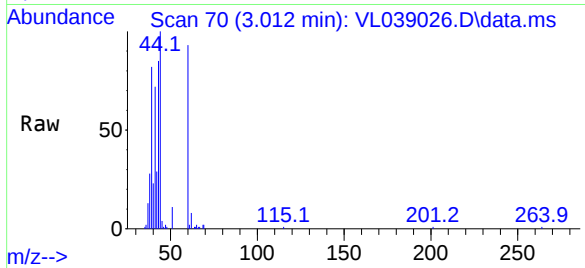
Tgt Ion: 50 Resp: 39776  
Ion Ratio Lower Upper  
50 100  
52 33.7 27.3 40.9





#9  
 Propene  
 Concen: 0.744 ppbv m  
 RT: 3.012 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VL039026.D  
 Acq: 11 May 2022 19:06

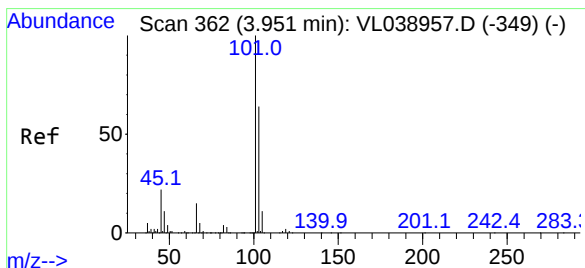
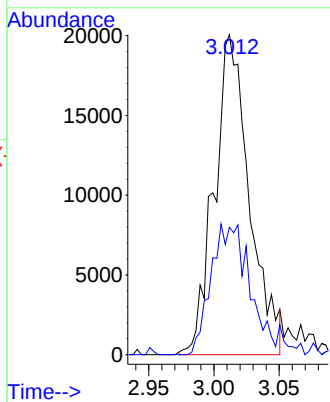
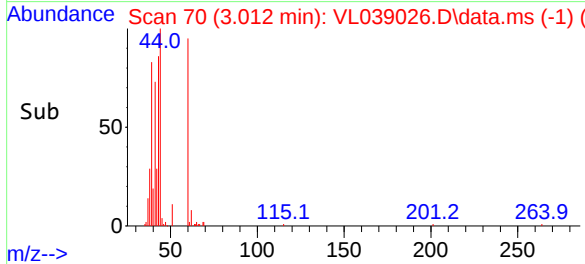
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1DUP



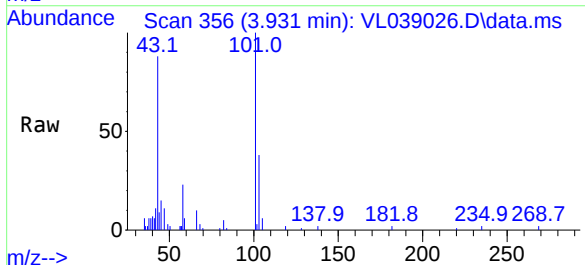
Tgt Ion: 41 Resp: 37634  
 Ion Ratio Lower Upper  
 41 100  
 42 48.0 58.3 87.5

Manual Integrations  
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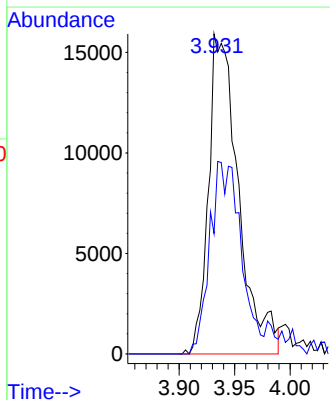
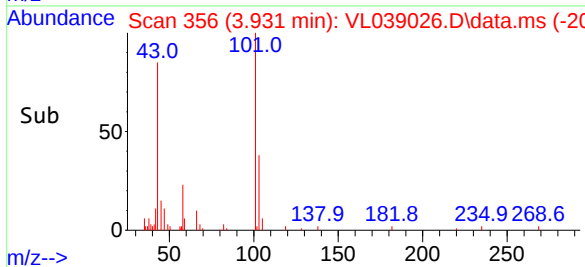
Reviewed By :Semsettin Yesilyurt 05/15/2022  
 Supervised By :Mahesh Dadoda 05/16/2022

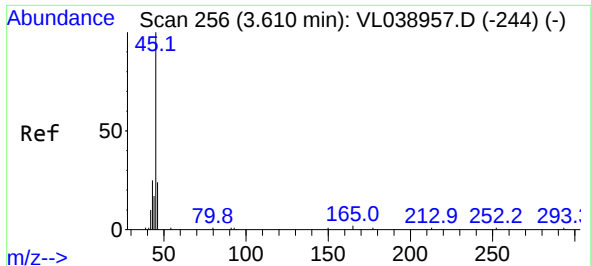


#11  
 Trichlorofluoromethane  
 Concen: 0.239 ppbv m  
 RT: 3.931 min Scan# 356  
 Delta R.T. -0.019 min  
 Lab File: VL039026.D  
 Acq: 11 May 2022 19:06



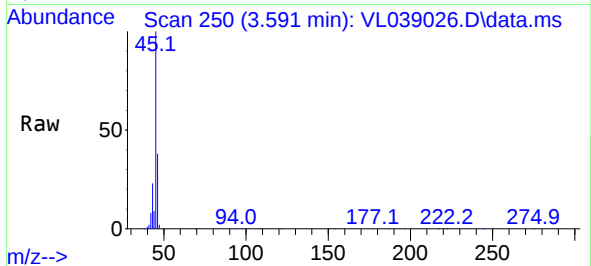
Tgt Ion:101 Resp: 29936  
 Ion Ratio Lower Upper  
 101 100  
 103 37.7 51.5 77.3





#13  
Ethanol  
Concen: 63.351 ppbv  
RT: 3.591 min Scan# 21  
Delta R.T. -0.019 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

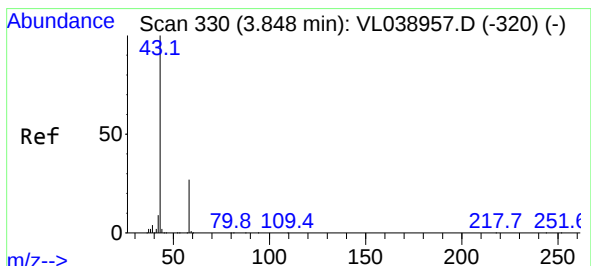
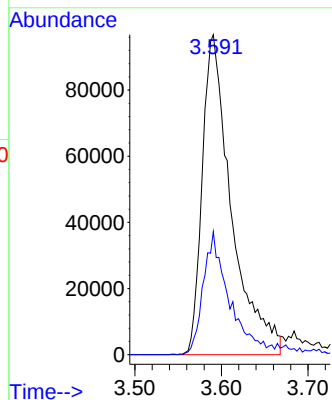
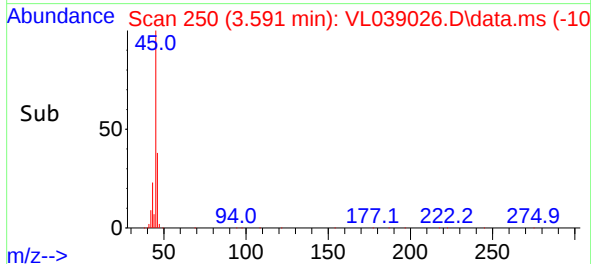
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



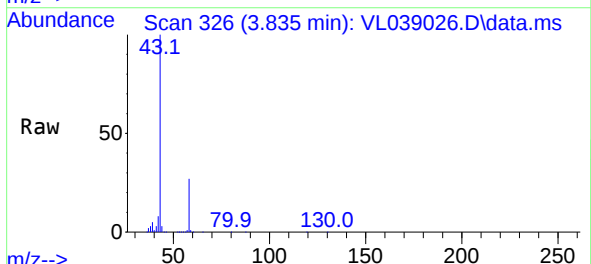
Tgt Ion: 45 Resp: 226660  
Ion Ratio Lower Upper  
45 100  
46 34.5 18.0 72.2

Manual Integrations  
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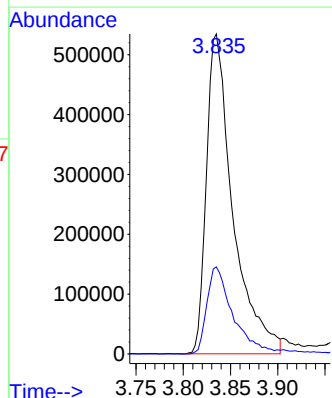
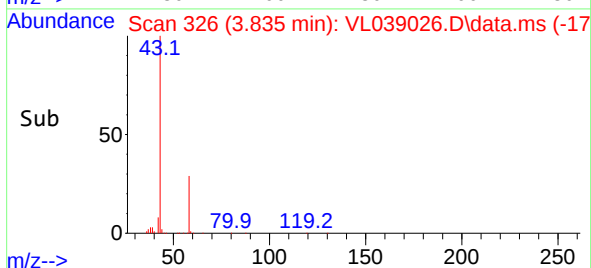
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022

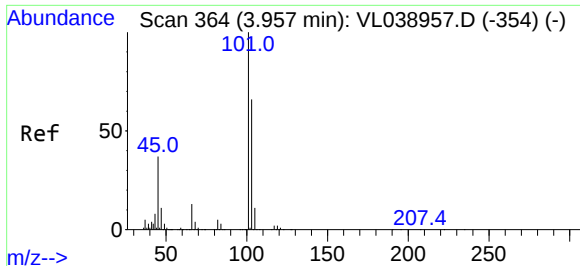


#15  
Acetone  
Concen: 11.825 ppbv  
RT: 3.835 min Scan# 326  
Delta R.T. -0.013 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06



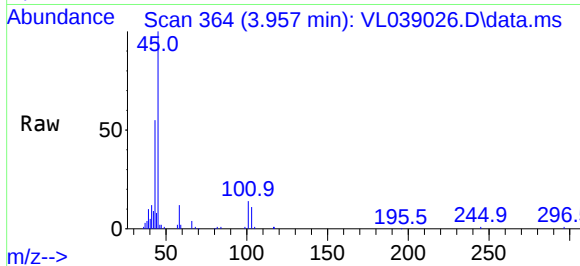
Tgt Ion: 43 Resp: 1040753  
Ion Ratio Lower Upper  
43 100  
58 27.9 21.3 31.9





#19  
Isopropyl Alcohol  
Concen: 2.156 ppbv  
RT: 3.957 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

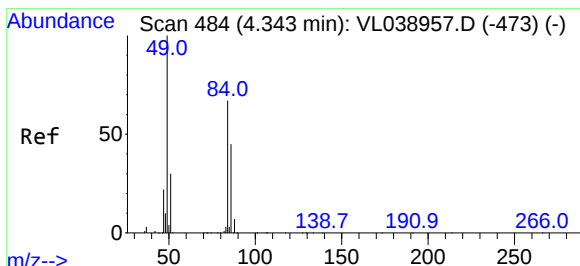
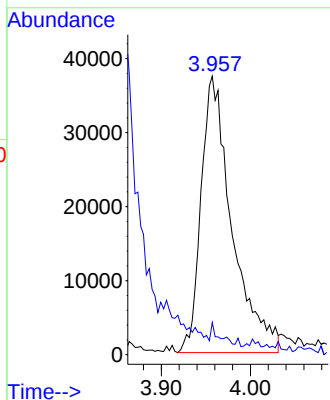
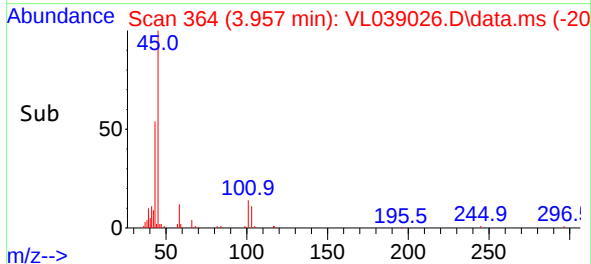
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



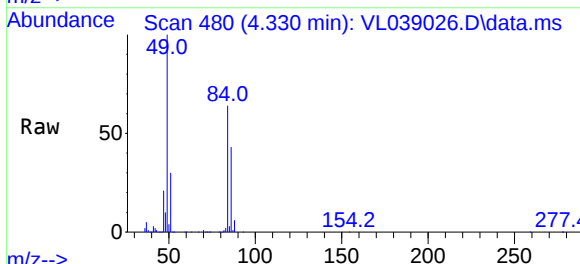
Tgt Ion: 45 Resp: 9020  
Ion Ratio Lower Upper  
45 100  
58 322.3 1.4 2.2

Manual Integrations  
APPROVED

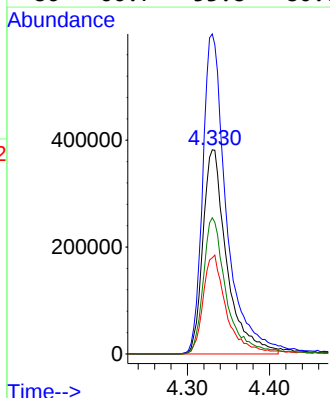
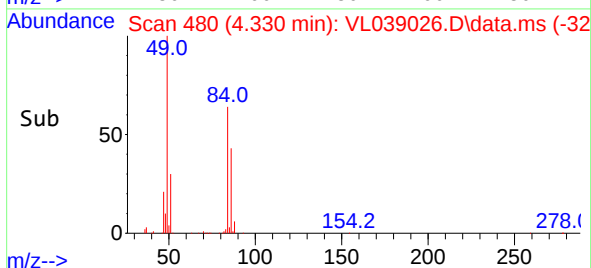
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022

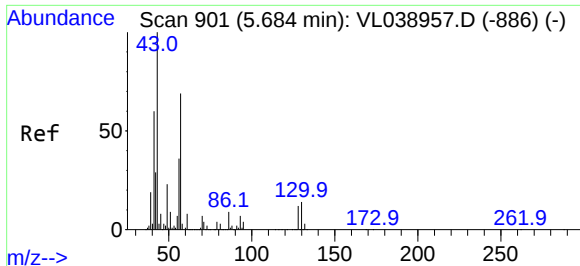


#20  
Methylene Chloride  
Concen: 23.400 ppbv  
RT: 4.330 min Scan# 480  
Delta R.T. -0.013 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06



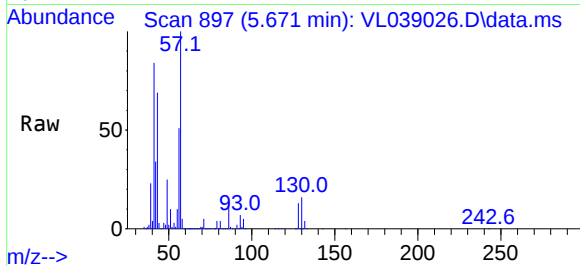
Tgt Ion: 84 Resp: 776200  
Ion Ratio Lower Upper  
84 100  
49 156.8 119.9 179.9  
51 47.0 35.7 53.5  
86 66.7 53.8 80.6





#26  
Hexane  
Concen: 11.511 ppbv  
RT: 5.671 min Scan# 897  
Delta R.T. -0.013 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

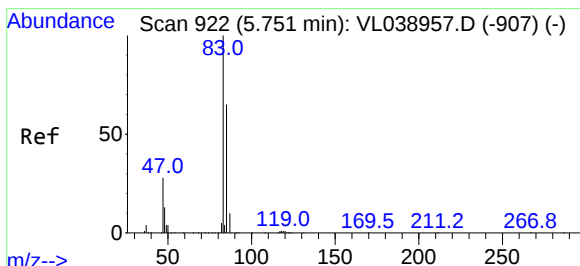
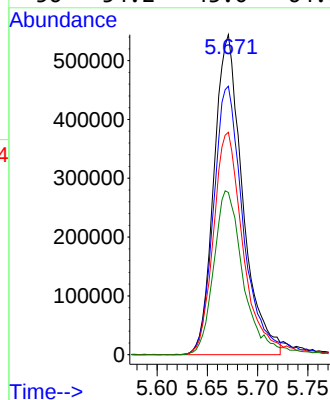
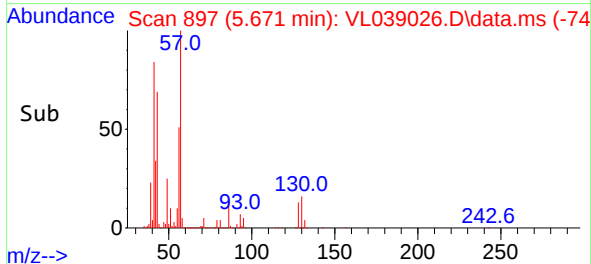
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion: 57 Resp: 107735  
Ion Ratio Lower Upper  
57 100  
41 89.5 75.2 112.8  
43 73.4 190.8 286.2  
56 54.2 43.0 64.6

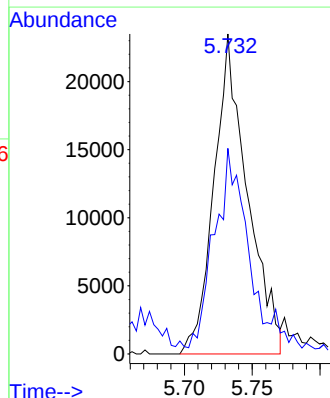
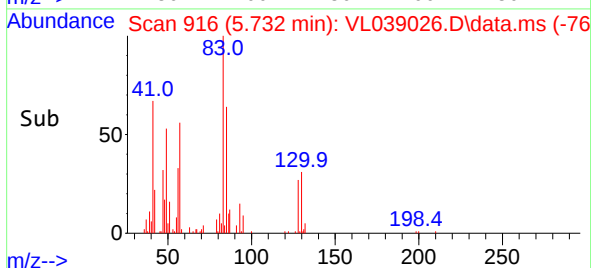
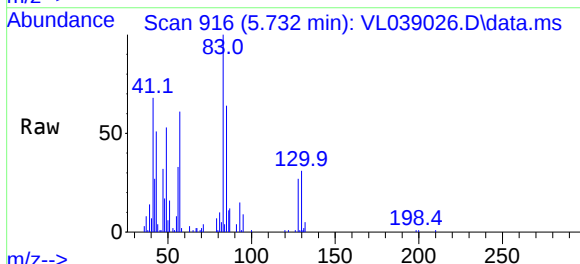
Manual Integrations  
APPROVED

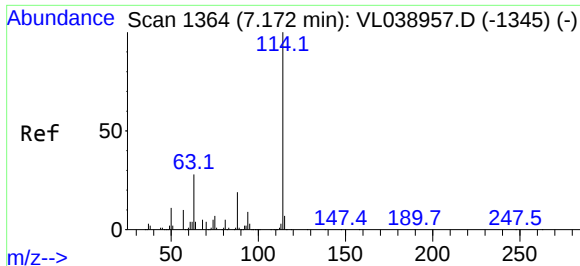
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022



#29  
Chloroform  
Concen: 0.266 ppbv  
RT: 5.732 min Scan# 916  
Delta R.T. -0.019 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

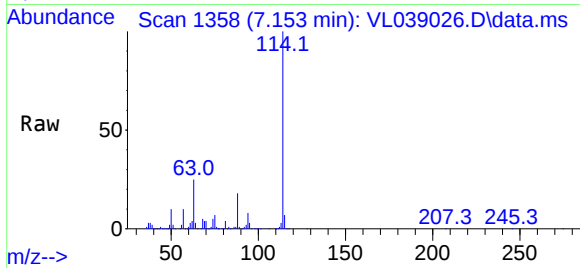
Tgt Ion: 83 Resp: 40309  
Ion Ratio Lower Upper  
83 100  
85 60.2 51.8 77.6





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.153 min Scan# 11  
Delta R.T. -0.019 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

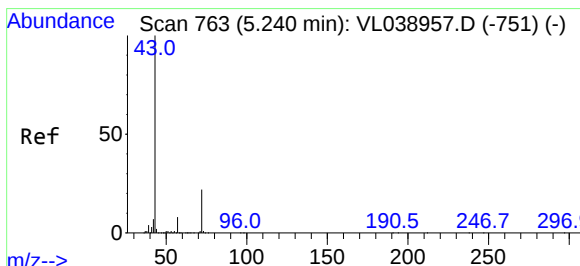
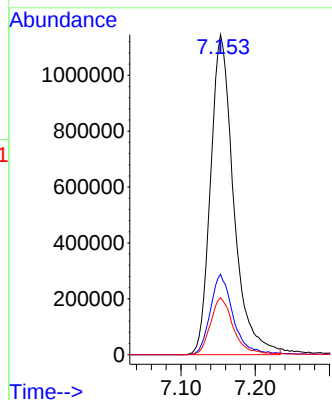
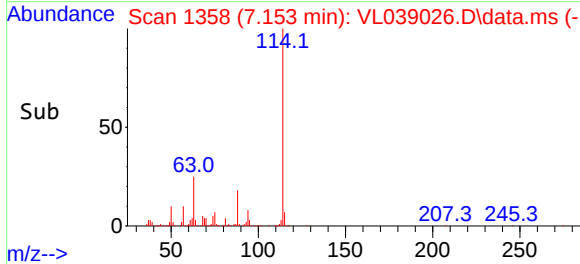
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



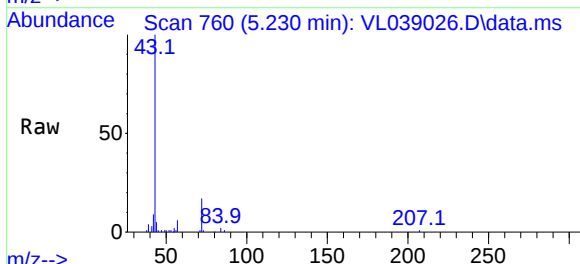
Tgt Ion:114 Resp: 2469808  
Ion Ratio Lower Upper  
114 100  
63 25.4 22.6 33.8  
88 18.0 15.4 23.0

Manual Integrations  
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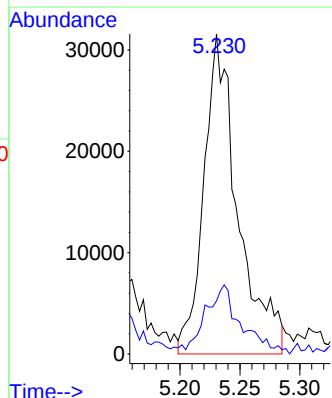
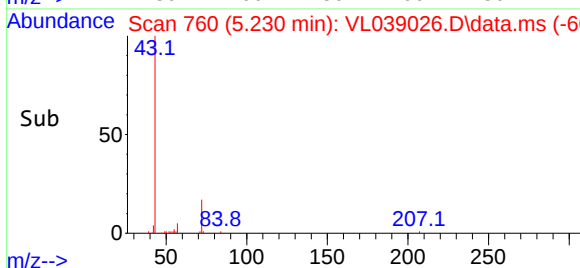
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022

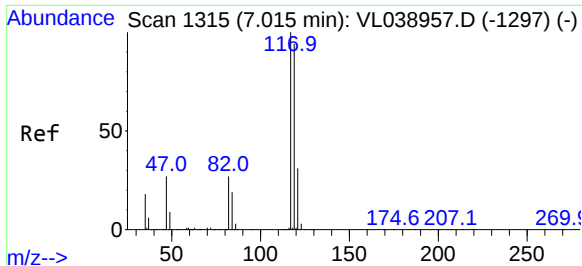


#34  
2-Butanone  
Concen: 0.495 ppbv m  
RT: 5.230 min Scan# 760  
Delta R.T. -0.010 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06



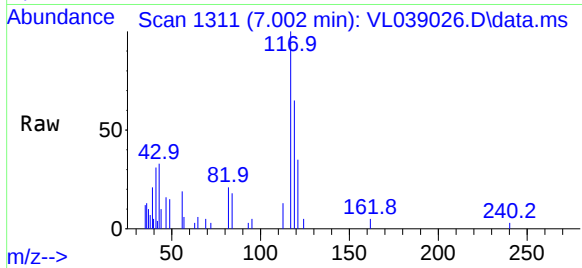
Tgt Ion: 43 Resp: 62376  
Ion Ratio Lower Upper  
43 100  
72 0.0 17.8 26.6#





#35  
Carbon Tetrachloride  
Concen: 0.054 ppbv  
RT: 7.002 min Scan# 117  
Delta R.T. -0.013 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

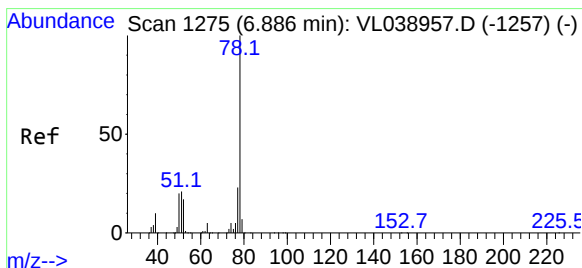
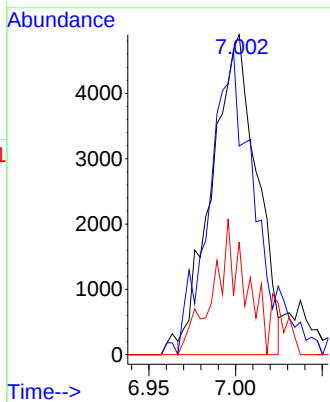
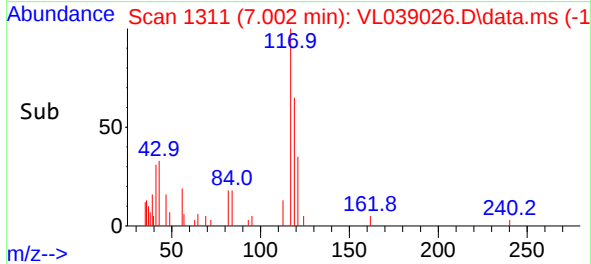
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



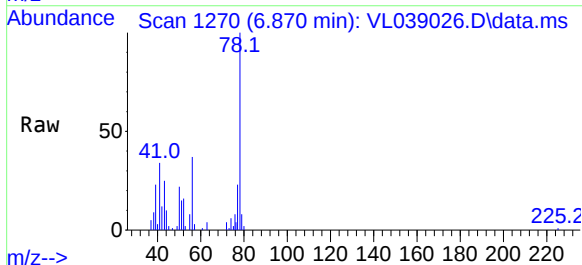
Tgt Ion: 117 Resp: 8830  
Ion Ratio Lower Upper  
117 100  
119 68.0 75.2 112.8  
121 36.8 24.6 37.0

Manual Integrations  
APPROVED

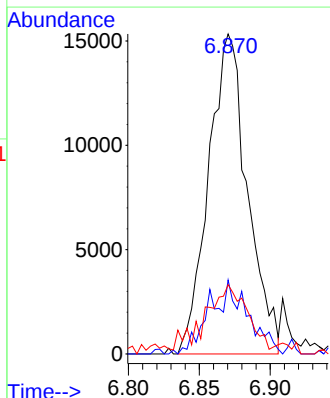
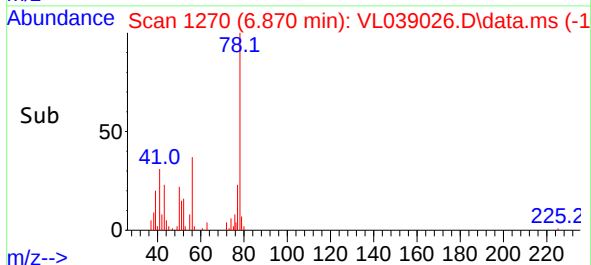
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022

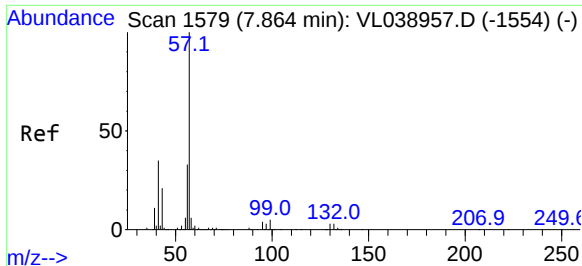


#36  
Benzene  
Concen: 0.139 ppbv  
RT: 6.870 min Scan# 1270  
Delta R.T. -0.016 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06



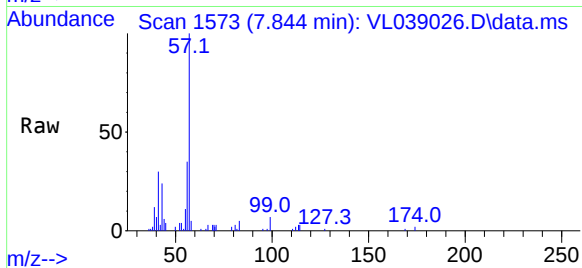
Tgt Ion: 78 Resp: 29280  
Ion Ratio Lower Upper  
78 100  
77 23.1 18.6 28.0  
50 18.8 15.6 23.4





#44  
2,2,4-Trimethylpentane  
Concen: 0.118 ppbv m  
RT: 7.844 min Scan# 1579  
Delta R.T. -0.019 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

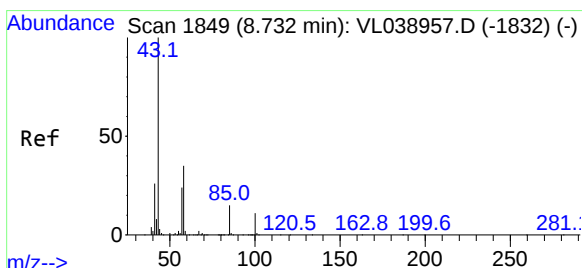
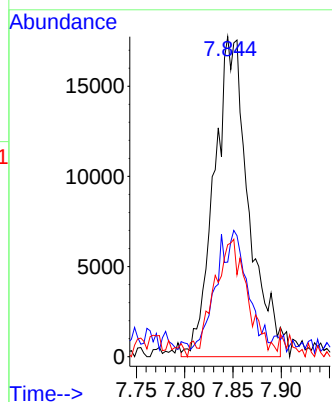
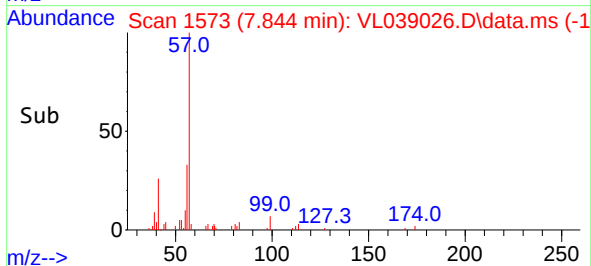
Instrument : MSVOA\_L  
ClientSampleId : IA1DUP



Tgt Ion: 57 Resp: 4388  
Ion Ratio Lower Upper  
57 100  
41 0.0 26.3 39.5  
56 0.0 24.6 37.0

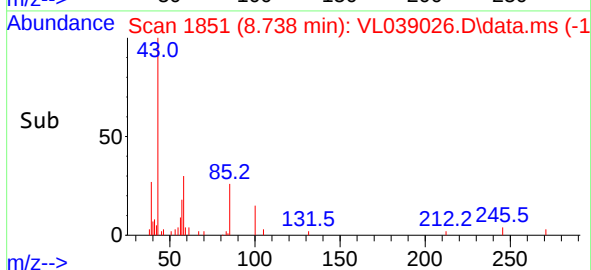
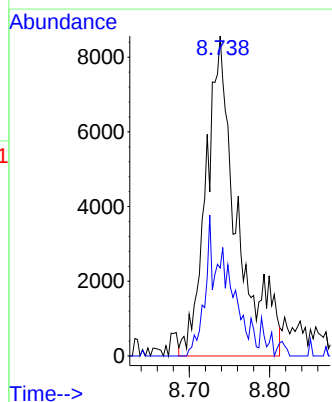
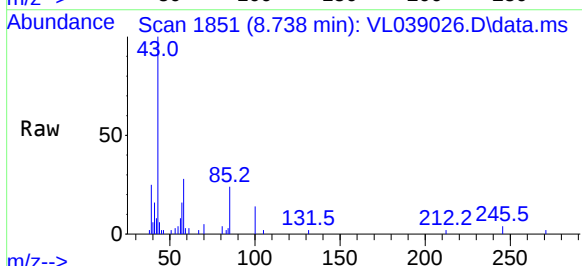
Manual Integrations  
APPROVED

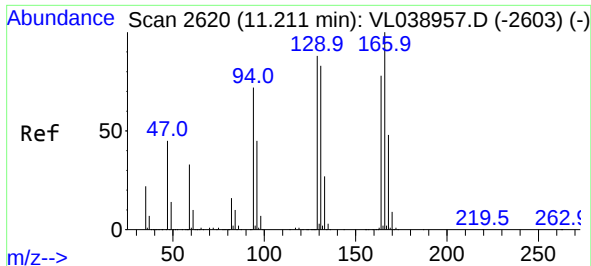
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022



#50  
4-Methyl-2-Pentanone  
Concen: 0.104 ppbv m  
RT: 8.738 min Scan# 1851  
Delta R.T. 0.007 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

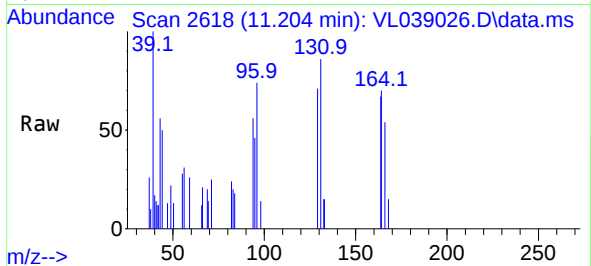
Tgt Ion: 43 Resp: 23006  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.4 42.6





#52  
Tetrachloroethene  
Concen: 0.034 ppbv m  
RT: 11.204 min Scan# 2175  
Delta R.T. -0.006 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

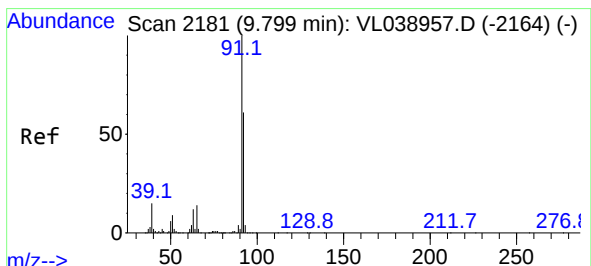
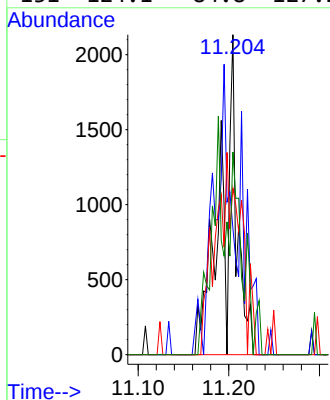
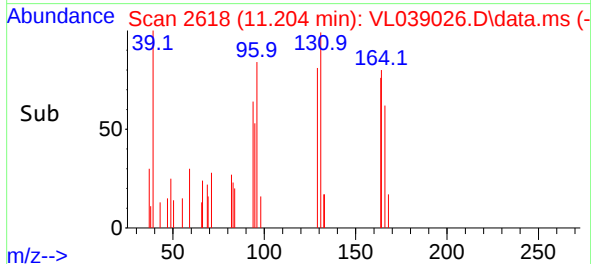
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



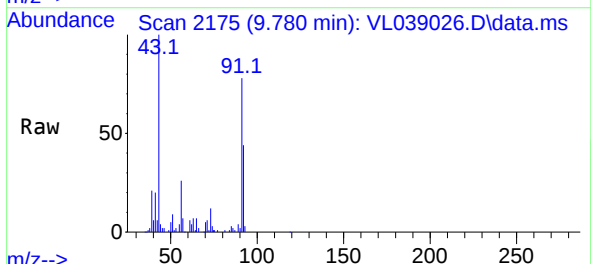
Tgt Ion:164 Resp: 254  
Ion Ratio Lower Upper  
164 100  
166 77.2 102.5 153.7  
129 101.8 90.1 135.1  
131 124.1 84.8 127.2

Manual Integrations  
APPROVED

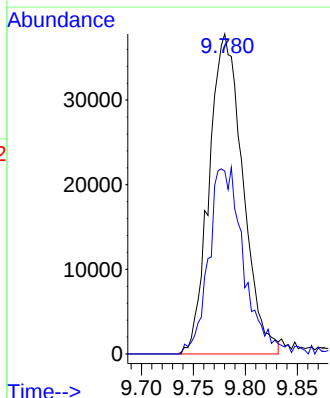
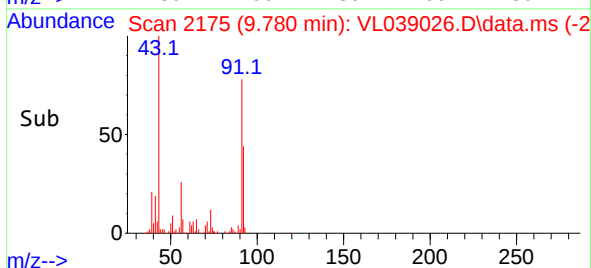
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022

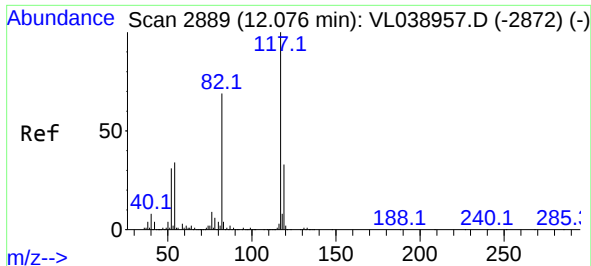


#53  
Toluene  
Concen: 0.360 ppbv  
RT: 9.780 min Scan# 2175  
Delta R.T. -0.019 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06



Tgt Ion: 91 Resp: 85275  
Ion Ratio Lower Upper  
91 100  
92 60.0 48.2 72.2





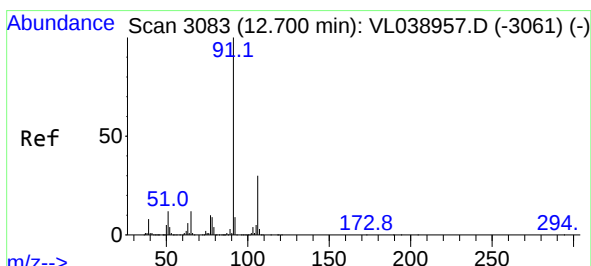
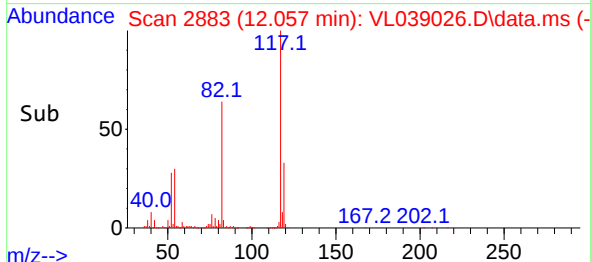
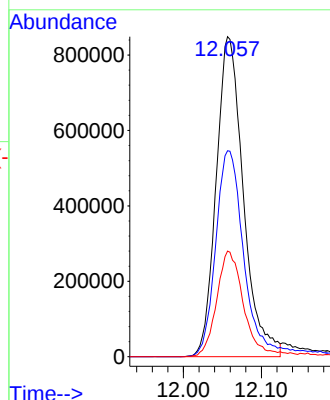
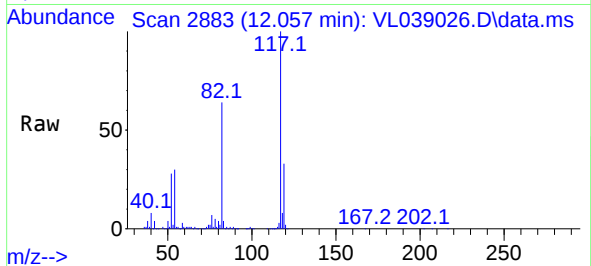
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.057 min Scan# 21  
Delta R.T. -0.019 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Tgt Ion:117 Resp: 205863  
Ion Ratio Lower Upper  
117 100  
82 70.9 57.0 85.6  
119 33.6 27.2 40.8

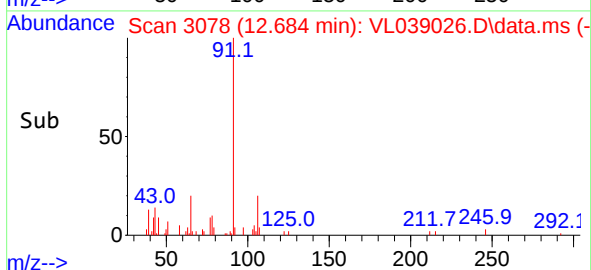
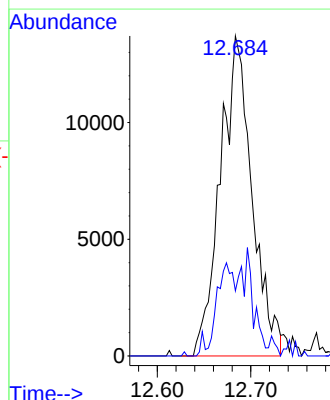
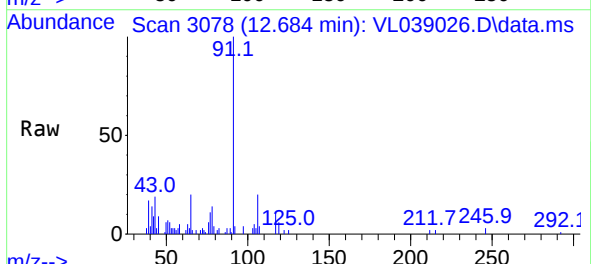
Manual Integrations  
APPROVED

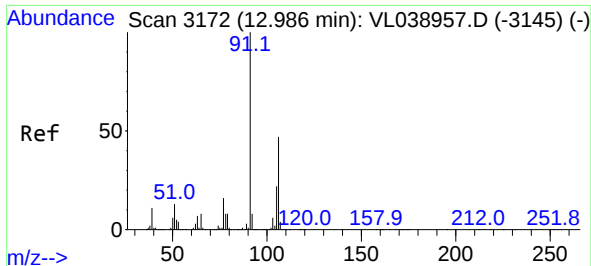
Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022



#58  
Ethyl Benzene  
Concen: 0.109 ppbv m  
RT: 12.684 min Scan# 3078  
Delta R.T. -0.016 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

Tgt Ion: 91 Resp: 32294  
Ion Ratio Lower Upper  
91 100  
106 20.3 24.2 36.4#





#59

m/p-Xylene

Concen: 0.295 ppbv m

RT: 12.934 min Scan# 3172

Delta R.T. -0.051 min

Lab File: VL039026.D

Acq: 11 May 2022 19:06

Instrument :

MSVOA\_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 74619

Ion Ratio Lower Upper

91 100

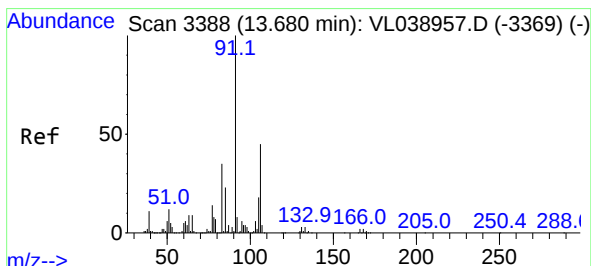
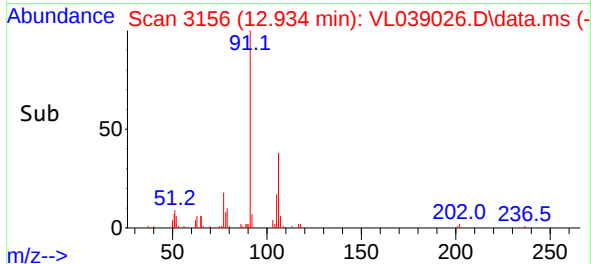
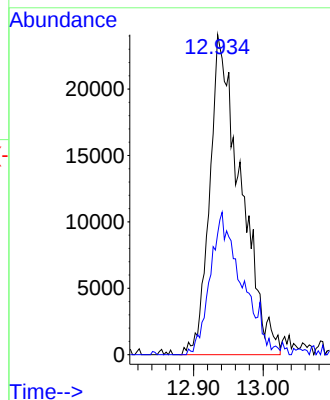
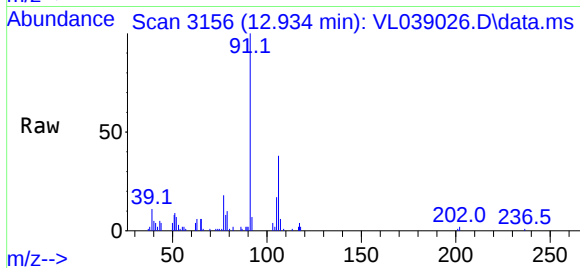
106 0.0 34.6 52.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2022

Supervised By :Mahesh Dadoda 05/16/2022



#60

o-Xylene

Concen: 0.134 ppbv m

RT: 13.664 min Scan# 3383

Delta R.T. -0.016 min

Lab File: VL039026.D

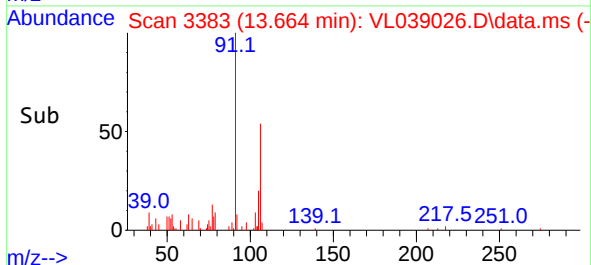
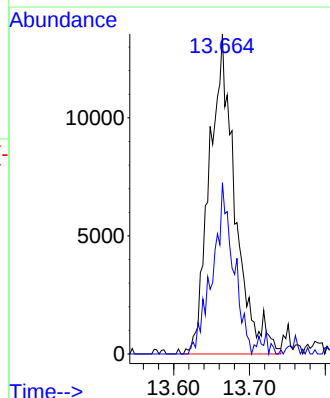
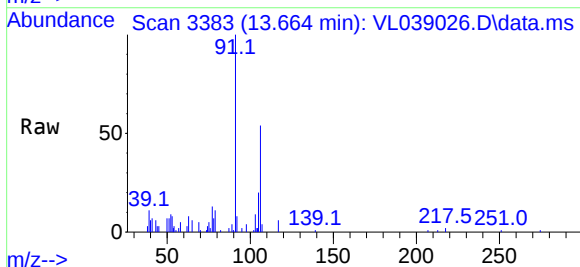
Acq: 11 May 2022 19:06

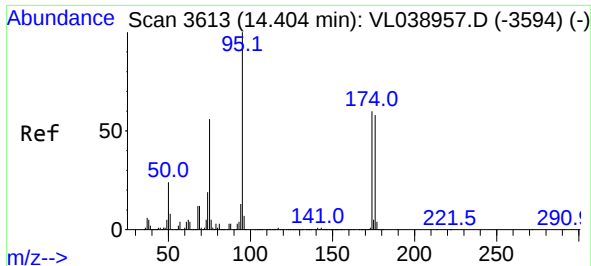
Tgt Ion: 91 Resp: 31914

Ion Ratio Lower Upper

91 100

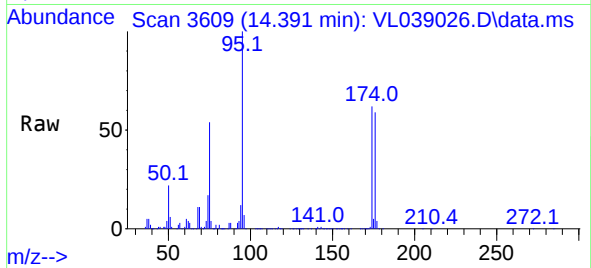
106 46.1 22.2 66.6





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.805 ppbv  
RT: 14.391 min Scan# 30  
Delta R.T. -0.013 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06

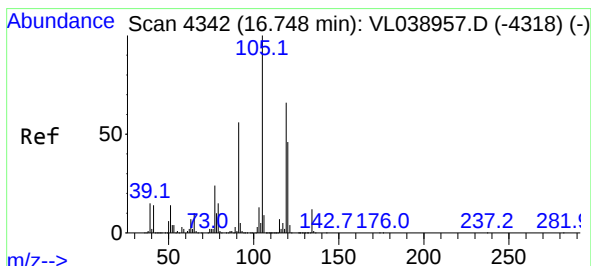
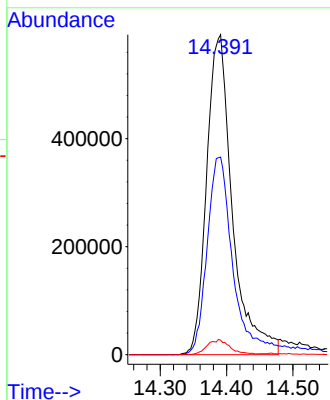
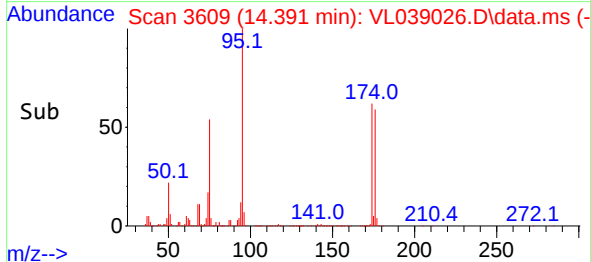
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



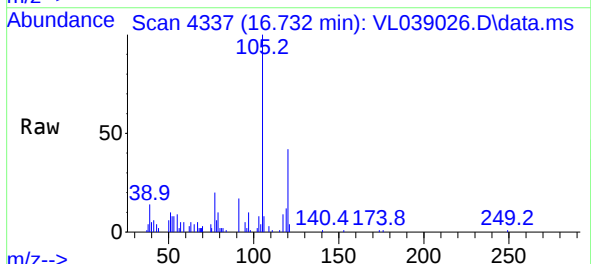
Tgt Ion: 95 Resp: 159858  
Ion Ratio Lower Upper  
95 100  
174 65.8 50.8 76.2  
175 4.7 3.8 5.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2022  
Supervised By :Mahesh Dadoda 05/16/2022



#74  
1,2,4-Trimethylbenzene  
Concen: 0.147 ppbv m  
RT: 16.732 min Scan# 4337  
Delta R.T. -0.016 min  
Lab File: VL039026.D  
Acq: 11 May 2022 19:06



Tgt Ion:105 Resp: 39339  
Ion Ratio Lower Upper  
105 100  
120 41.6 36.9 55.3  
91 17.3 45.0 67.4#  
77 19.7 19.2 28.8

