

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL060822\  
 Data File : VL039239.D  
 Acq On : 8 Jun 2022 17:42  
 Operator : SY/AP  
 Sample : N3187-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-2

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/09/2022  
 Supervised By :Mahesh Dadoda 06/09/2022

Quant Time: Jun 09 06:41:38 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 09 06:41:38 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.674  | 49    | 1224733  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 7.185  | 114   | 2826548  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 12.095 | 117   | 2346112  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 14.423 | 95    | 1946857  | 10.037   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 100.400% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 3.057  | 85    | 65165    | 0.303    | ppbv   | 93       |
| 3) Chlorodifluoromethane    | 2.996  | 51    | 71103    | 0.456    | ppbv   | 96       |
| 4) Chloromethane            | 3.150  | 50    | 41059    | 0.513    | ppbv   | 91       |
| 9) Propene                  | 3.031  | 41    | 42234    | 0.622    | ppbv # | 80       |
| 11) Trichlorofluoromethane  | 3.960  | 101   | 49603    | 0.255    | ppbv   | 85       |
| 13) Ethanol                 | 3.610  | 45    | 273533   | 73.815   | ppbv # | 100      |
| 15) Acetone                 | 3.854  | 43    | 863672m  | 6.770    | ppbv   |          |
| 19) Isopropyl Alcohol       | 3.976  | 45    | 72355m   | 1.209    | ppbv   |          |
| 20) Methylene Chloride      | 4.349  | 84    | 2257433  | 41.988   | ppbv   | 97       |
| 26) Hexane                  | 5.693  | 57    | 2229167  | 17.641   | ppbv # | 39       |
| 30) Cyclohexane             | 7.143  | 84    | 16800m   | 0.158    | ppbv   |          |
| 34) 2-Butanone              | 5.253  | 43    | 80073    | 0.521    | ppbv   | 94       |
| 35) Carbon Tetrachloride    | 7.037  | 117   | 14142m   | 0.069    | ppbv   |          |
| 36) Benzene                 | 6.896  | 78    | 38741m   | 0.169    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane  | 7.873  | 57    | 105082   | 0.262    | ppbv # | 80       |
| 53) Toluene                 | 9.812  | 91    | 141287   | 0.535    | ppbv   | 99       |
| 59) m/p-Xylene              | 12.973 | 91    | 41809m   | 0.147    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 16.767 | 105   | 33296m   | 0.106    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

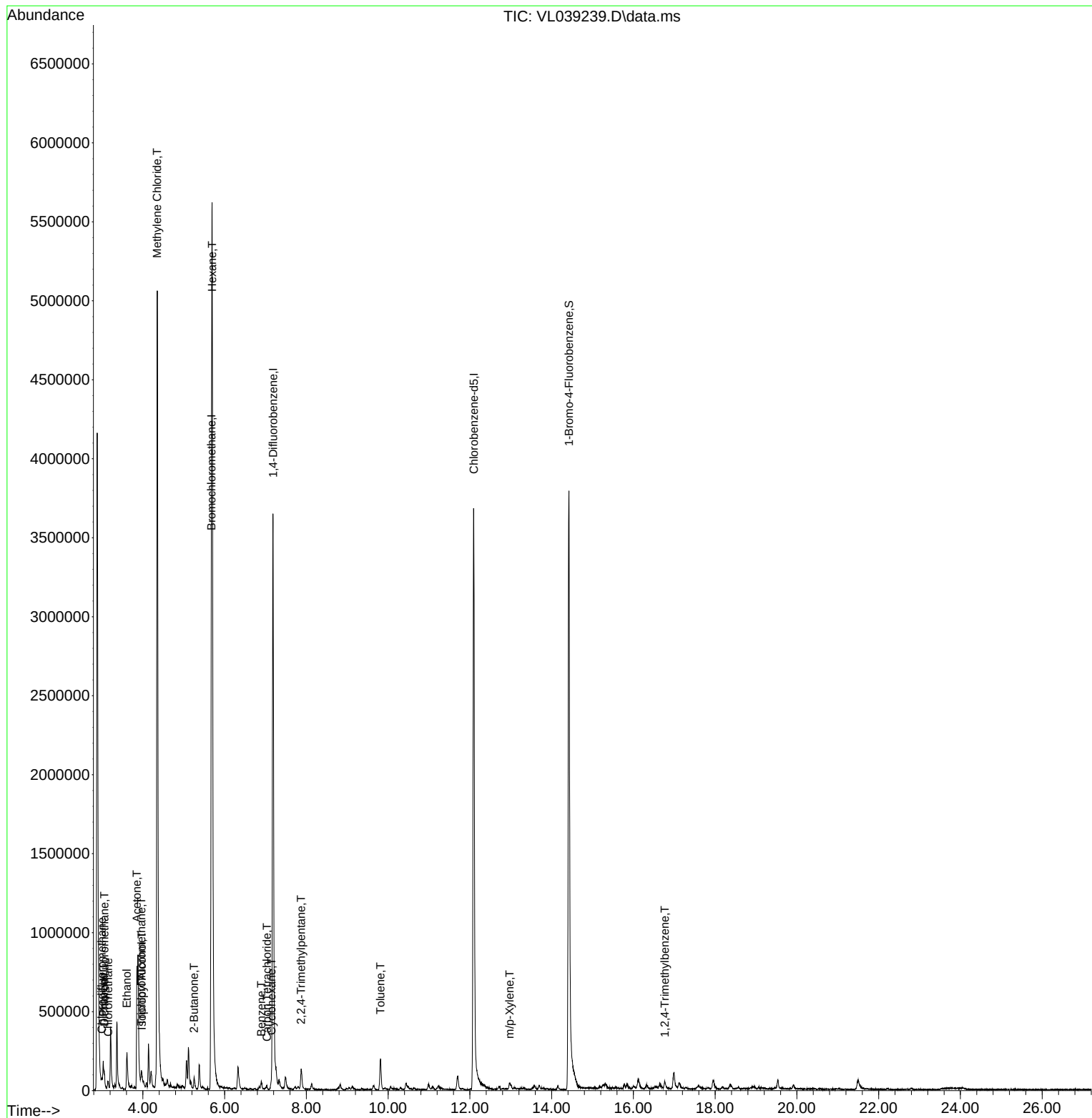
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL060822\  
Data File : VL039239.D  
Acq On : 8 Jun 2022 17:42  
Operator : SY/AP  
Sample : N3187-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

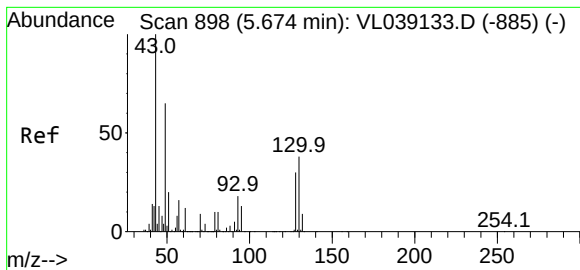
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2

Quant Time: Jun 09 06:41:38 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL053122AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun  
QLast Update : Wed Jun 01 01:22:18 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

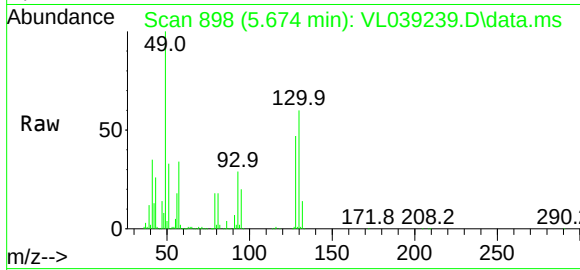
Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022





#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.674 min Scan# 898  
 Delta R.T. -0.000 min  
 Lab File: VL039239.D  
 Acq: 8 Jun 2022 17:42

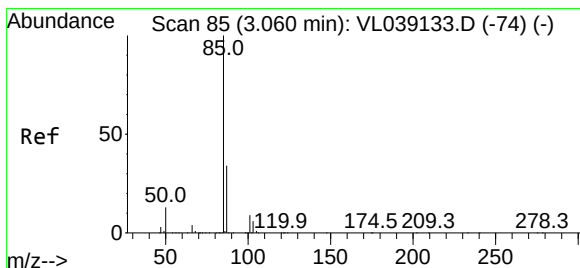
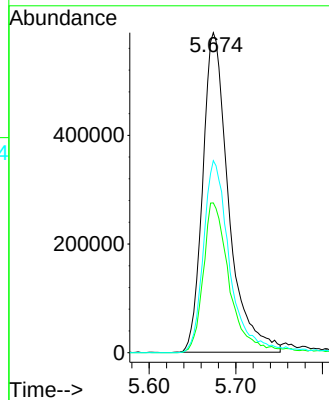
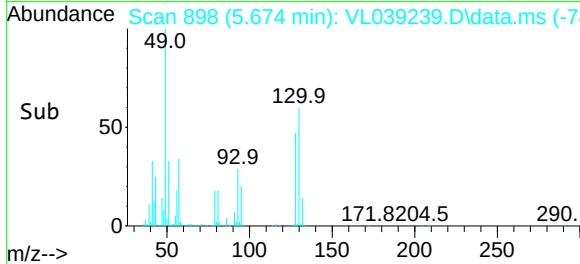
Instrument : MSVOA\_L  
 ClientSampleId : AA-2



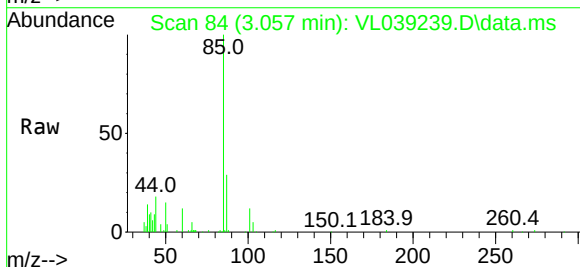
Tgt Ion: 49 Resp: 1224733  
 Ion Ratio Lower Upper  
 49 100  
 128 48.6 24.7 74.1  
 130 62.0 31.4 94.0

Manual Integrations  
 APPROVED

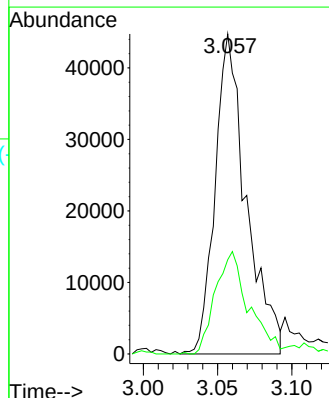
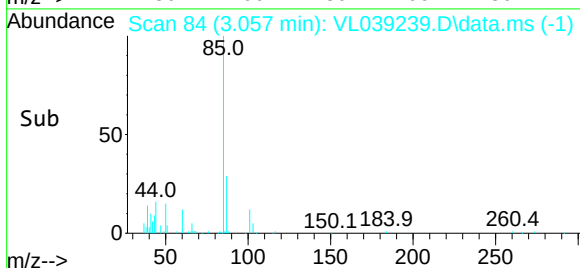
Reviewed By :Semsettin Yesilyurt 06/09/2022  
 Supervised By :Mahesh Dadoda 06/09/2022

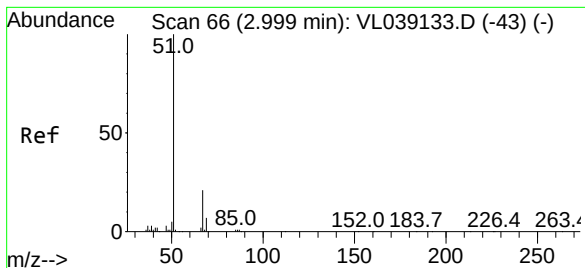


#2  
 Dichlorodifluoromethane  
 Concen: 0.303 ppbv  
 RT: 3.057 min Scan# 84  
 Delta R.T. -0.003 min  
 Lab File: VL039239.D  
 Acq: 8 Jun 2022 17:42



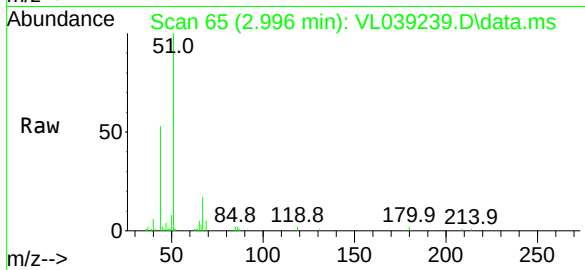
Tgt Ion: 85 Resp: 65165  
 Ion Ratio Lower Upper  
 85 100  
 87 29.4 26.9 40.3





#3  
Chlorodifluoromethane  
Concen: 0.456 ppbv  
RT: 2.996 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

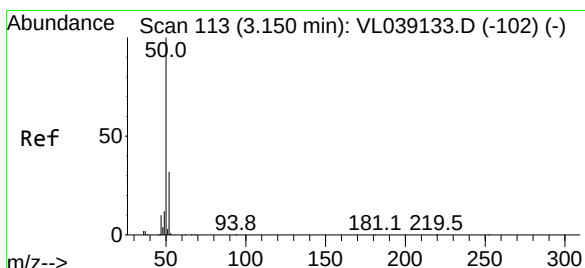
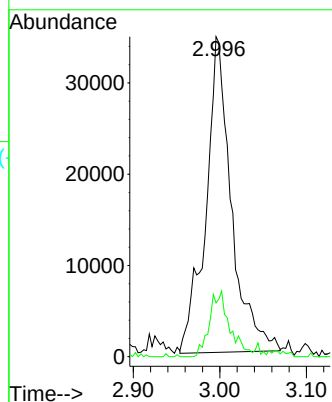
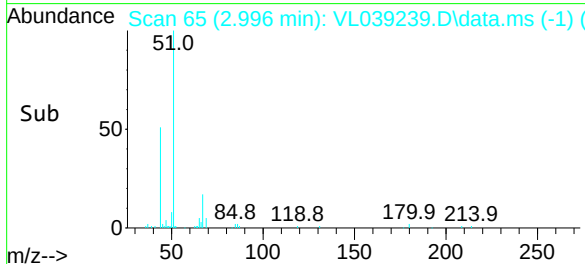
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2



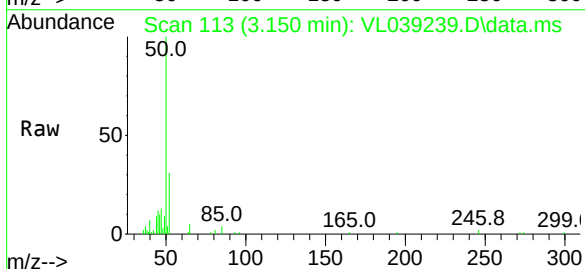
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Ion Ratio Lower Upper  
51 100  
67 18.5 16.2 24.4

Manual Integrations  
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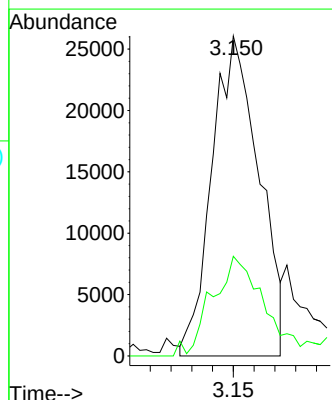
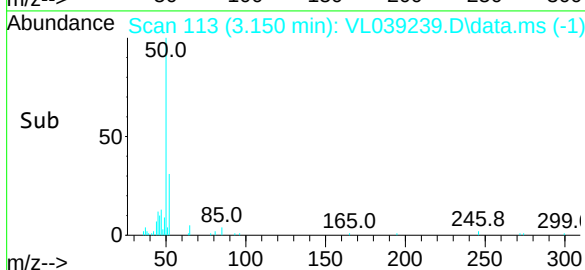
Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022

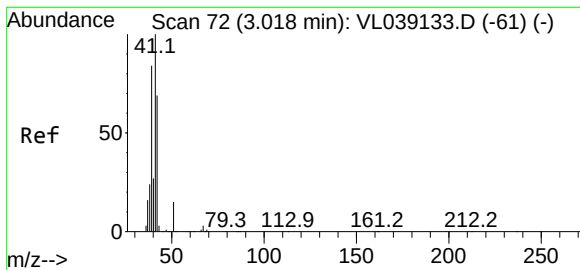


#4  
Chloromethane  
Concen: 0.513 ppbv  
RT: 3.150 min Scan# 113  
Delta R.T. -0.000 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42



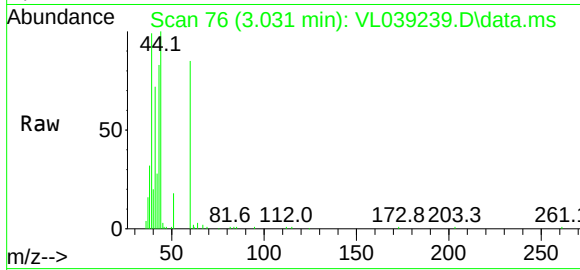
Tgt Ion: 50 Resp: 41059  
Ion Ratio Lower Upper  
50 100  
52 27.6 25.9 38.9





#9  
 Propene  
 Concen: 0.622 ppbv  
 RT: 3.031 min Scan# 70  
 Delta R.T. 0.013 min  
 Lab File: VL039239.D  
 Acq: 8 Jun 2022 17:42

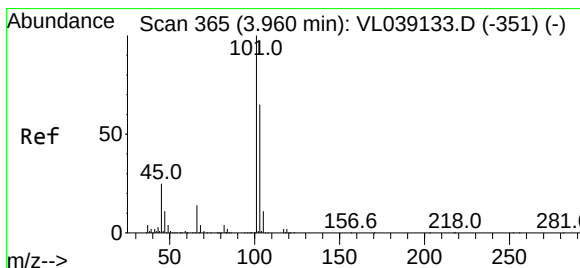
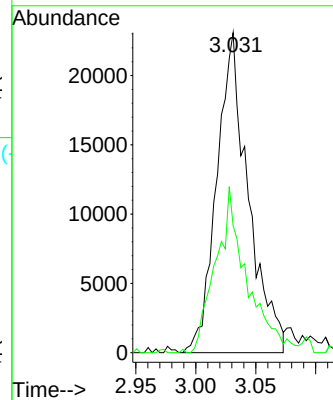
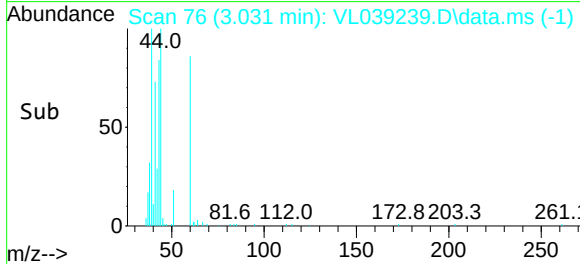
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-2



Tgt Ion: 41 Resp: 42234  
 Ion Ratio Lower Upper  
 41 100  
 42 52.6 55.4 83.2

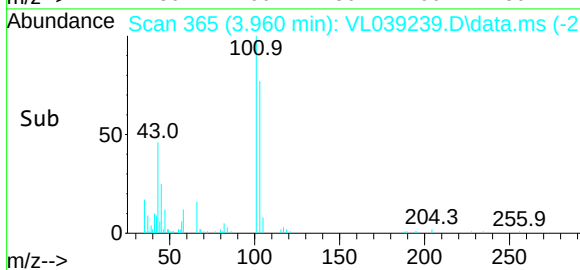
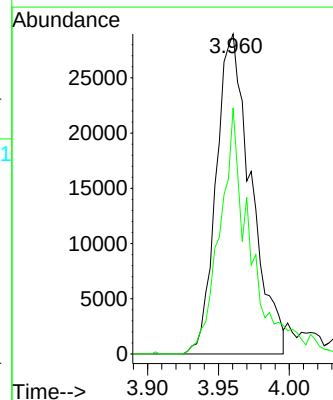
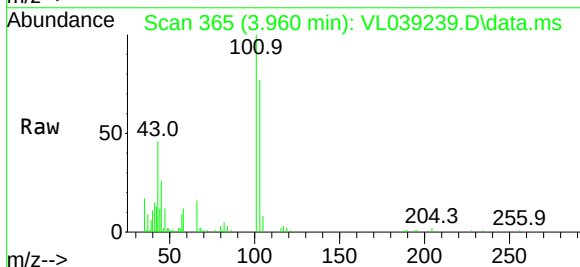
Manual Integrations  
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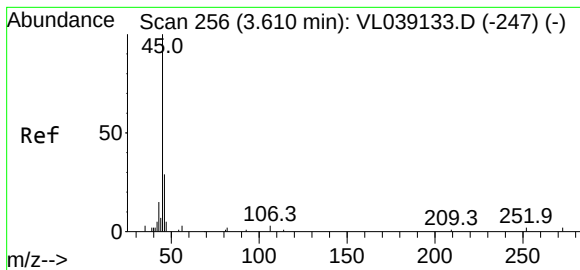
Reviewed By :Semsettin Yesilyurt 06/09/2022  
 Supervised By :Mahesh Dadoda 06/09/2022



#11  
 Trichlorofluoromethane  
 Concen: 0.255 ppbv  
 RT: 3.960 min Scan# 365  
 Delta R.T. -0.000 min  
 Lab File: VL039239.D  
 Acq: 8 Jun 2022 17:42

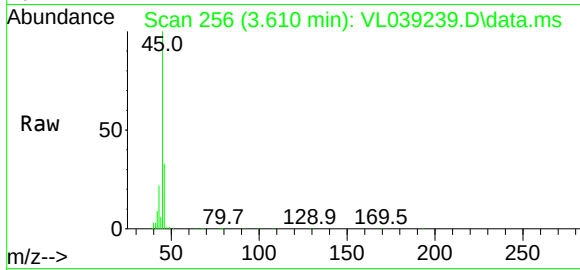
Tgt Ion:101 Resp: 49603  
 Ion Ratio Lower Upper  
 101 100  
 103 76.8 51.7 77.5





#13  
Ethanol  
Concen: 73.815 ppbv  
RT: 3.610 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

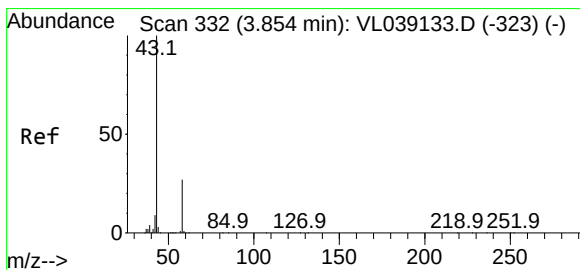
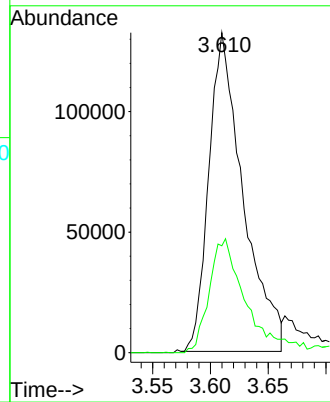
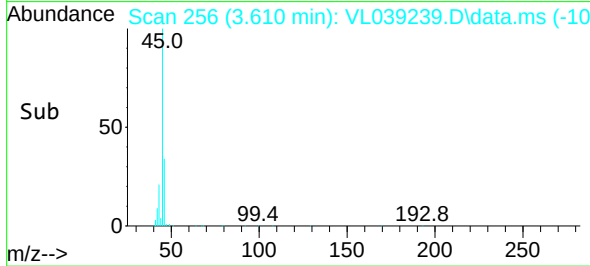
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2



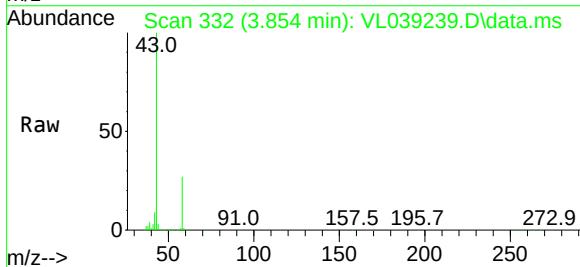
Tgt Ion: 45 Resp: 27353  
Ion Ratio Lower Upper  
45 100  
46 40.4 0.0 0.0

Manual Integrations  
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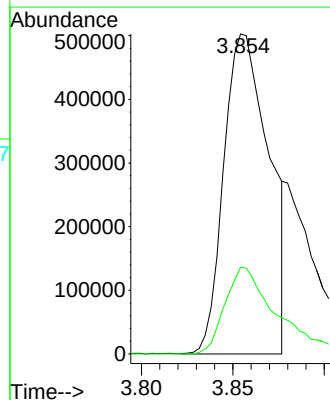
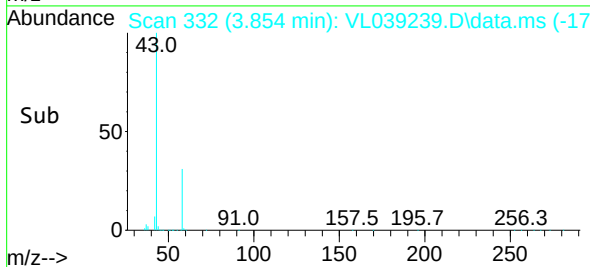
Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022

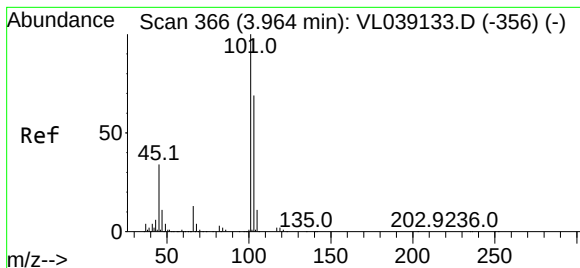


#15  
Acetone  
Concen: 6.770 ppbv m  
RT: 3.854 min Scan# 332  
Delta R.T. -0.000 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42



Tgt Ion: 43 Resp: 863672  
Ion Ratio Lower Upper  
43 100  
58 33.5 22.5 33.7





#19

Isopropyl Alcohol

Concen: 1.209 ppbv m

RT: 3.976 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL039239.D

Acq: 8 Jun 2022 17:42

Instrument :

MSVOA\_L

ClientSampleId :

AA-2

Tgt Ion: 45 Resp: 7235

Ion Ratio Lower Upper

45 100

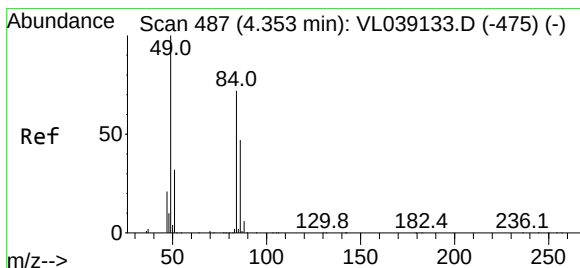
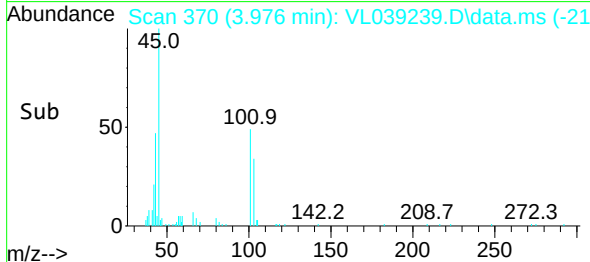
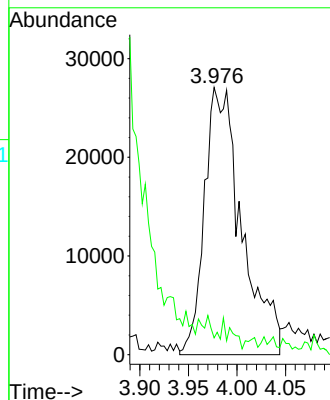
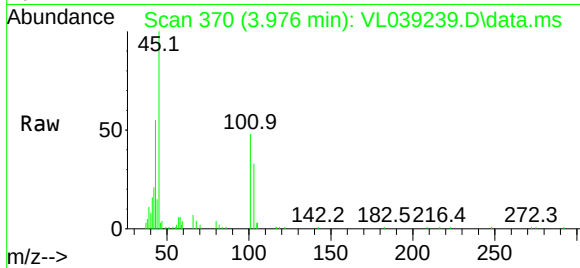
58 0.0 1.8 2.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/09/2022

Supervised By :Mahesh Dadoda 06/09/2022



#20

Methylene Chloride

Concen: 41.988 ppbv

RT: 4.349 min Scan# 486

Delta R.T. -0.003 min

Lab File: VL039239.D

Acq: 8 Jun 2022 17:42

Tgt Ion: 84 Resp: 2257433

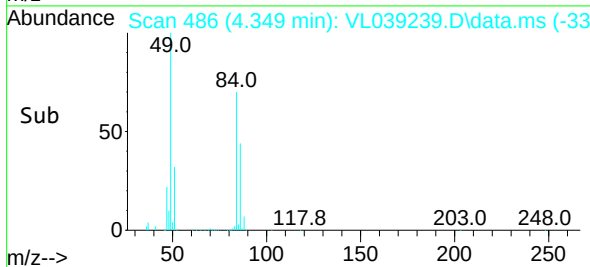
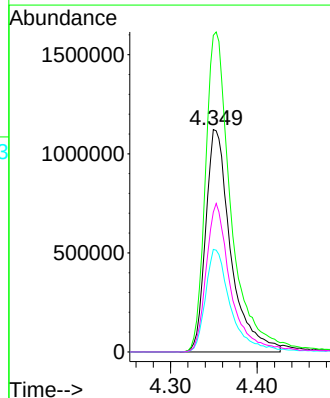
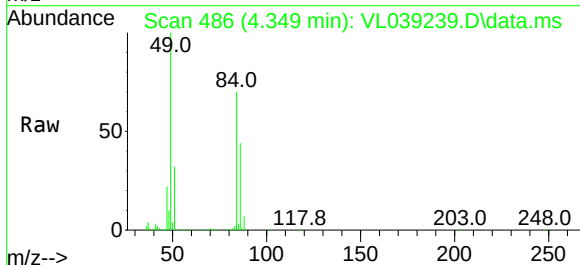
Ion Ratio Lower Upper

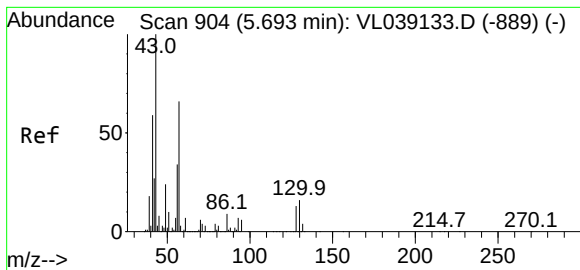
84 100

49 142.4 111.1 166.7

51 46.1 35.3 52.9

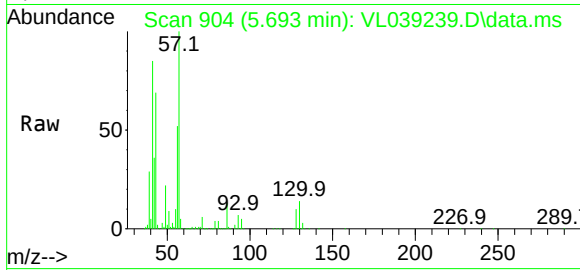
86 62.9 51.9 77.9





#26  
Hexane  
Concen: 17.641 ppbv  
RT: 5.693 min Scan# 904  
Delta R.T. -0.000 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

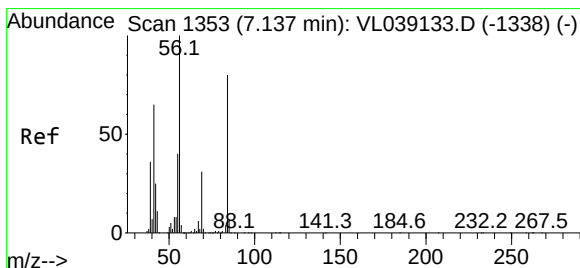
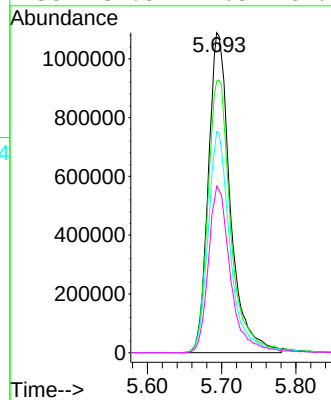
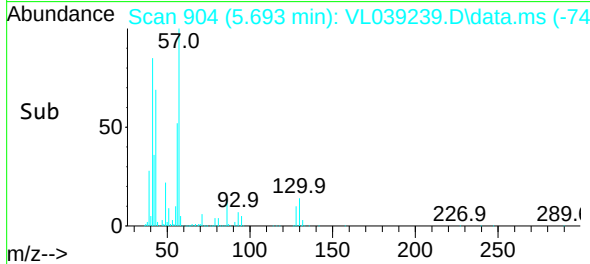
Instrument : MSVOA\_L  
ClientSampleId : AA-2



Tgt Ion: 57 Resp: 222916  
Ion Ratio Lower Upper  
57 100  
41 89.7 72.4 108.6  
43 70.0 187.0 280.6  
56 52.8 41.8 62.6

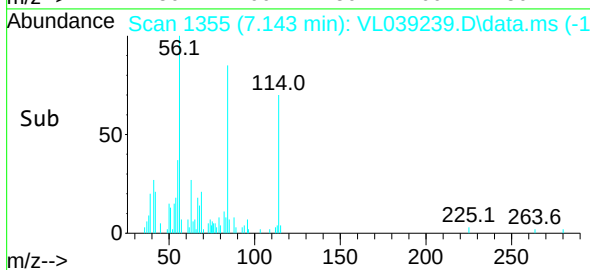
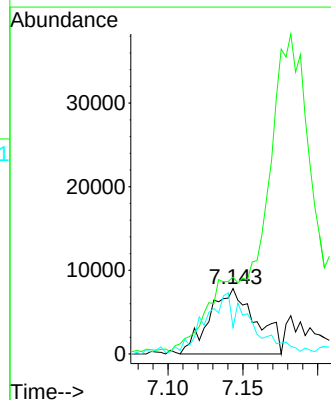
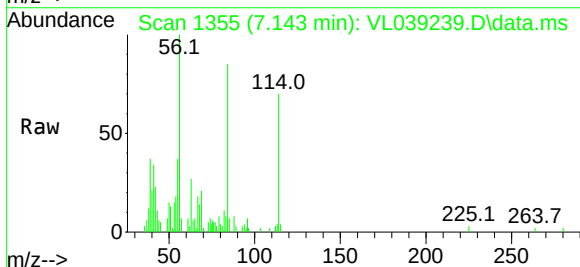
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022

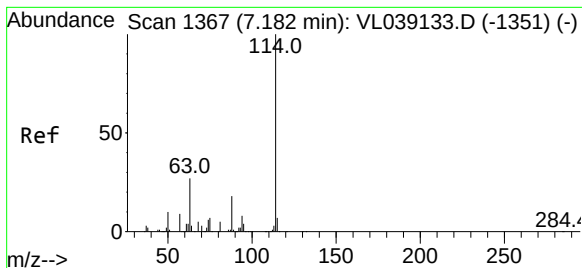


#30  
Cyclohexane  
Concen: 0.158 ppbv m  
RT: 7.143 min Scan# 1355  
Delta R.T. 0.006 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

Tgt Ion: 84 Resp: 16800  
Ion Ratio Lower Upper  
84 100  
56 0.0 110.6 165.8  
41 96.8 68.9 103.3

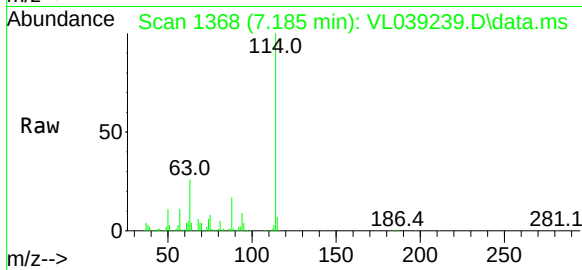






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.185 min Scan# 114  
Delta R.T. 0.003 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

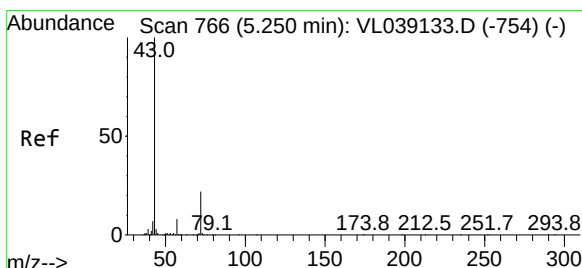
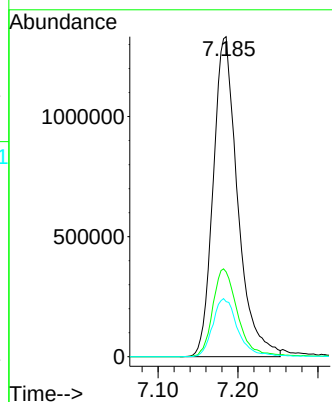
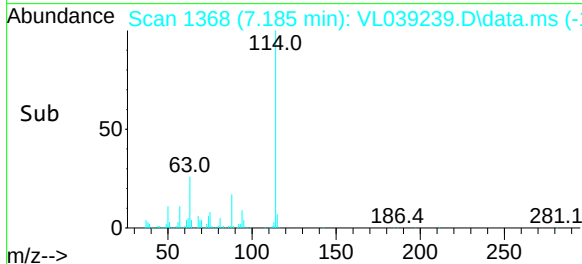
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2



Tgt Ion:114 Resp: 282654  
Ion Ratio Lower Upper  
114 100  
63 28.3 21.7 32.5  
88 18.9 14.8 22.2

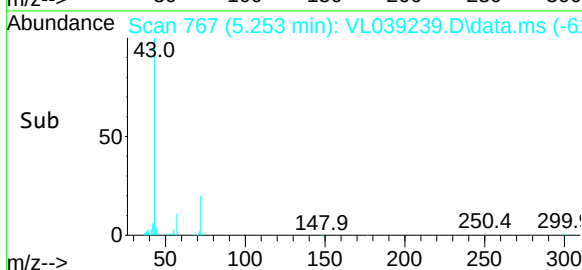
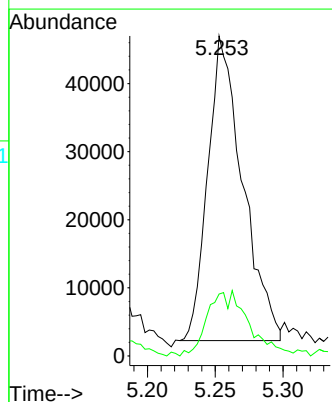
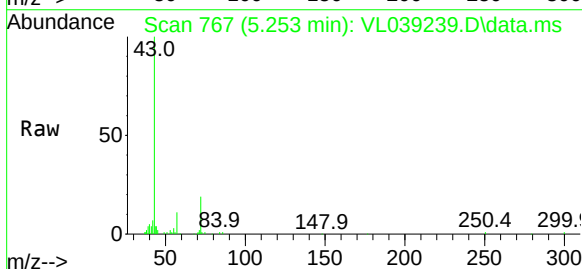
Manual Integrations  
APPROVED

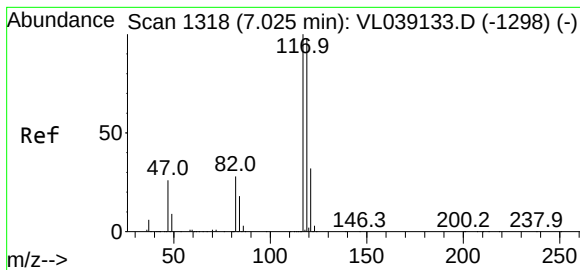
Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022



#34  
2-Butanone  
Concen: 0.521 ppbv  
RT: 5.253 min Scan# 767  
Delta R.T. 0.003 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

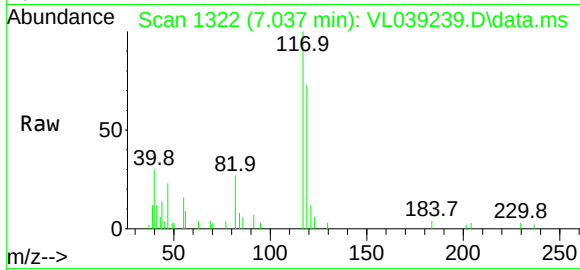
Tgt Ion: 43 Resp: 80073  
Ion Ratio Lower Upper  
43 100  
72 25.8 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.069 ppbv m  
RT: 7.037 min Scan# 117  
Delta R.T. 0.013 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

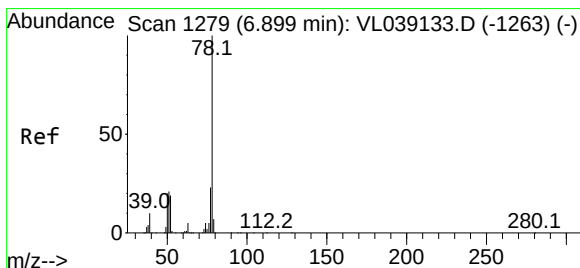
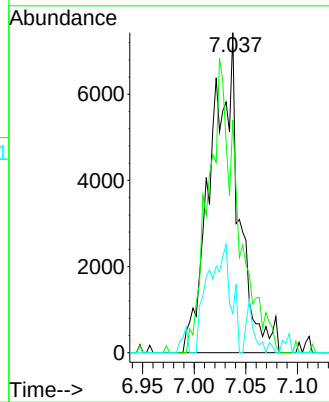
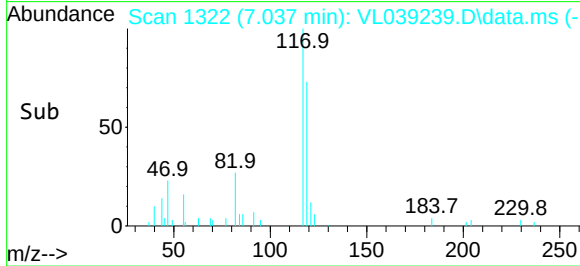
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2



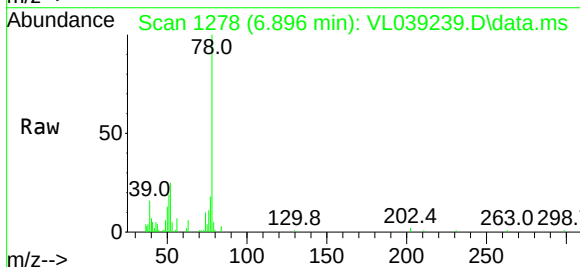
Tgt Ion:117 Resp: 1414  
Ion Ratio Lower Upper  
117 100  
119 72.7 78.6 118.0#  
121 12.2 25.4 38.0#

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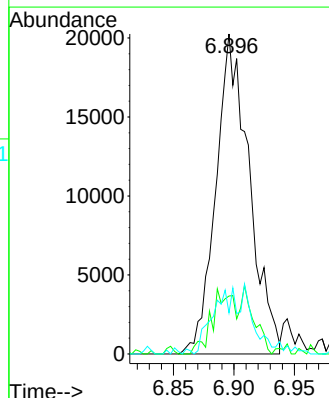
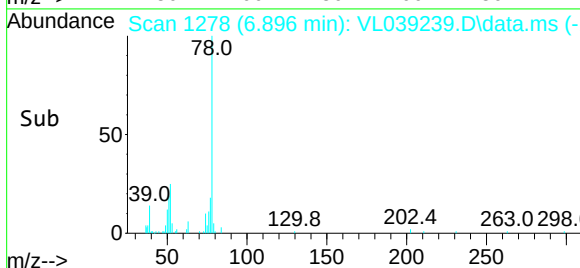
Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022

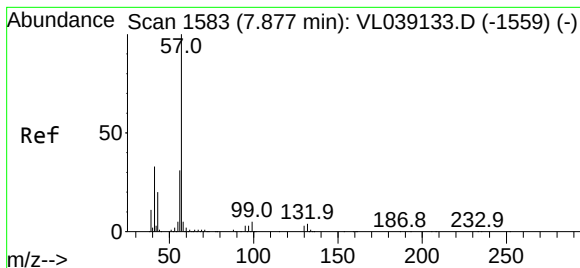


#36  
Benzene  
Concen: 0.169 ppbv m  
RT: 6.896 min Scan# 1278  
Delta R.T. -0.003 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42



Tgt Ion: 78 Resp: 38741  
Ion Ratio Lower Upper  
78 100  
77 18.1 18.6 27.8#  
50 12.9 15.8 23.8#





#44

2,2,4-Trimethylpentane

Concen: 0.262 ppbv

RT: 7.873 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL039239.D

Acq: 8 Jun 2022 17:42

Instrument :

MSVOA\_L

ClientSampleId :

AA-2

Tgt Ion: 57 Resp: 10508

Ion Ratio Lower Upper

57 100

41 45.2 26.2 39.4

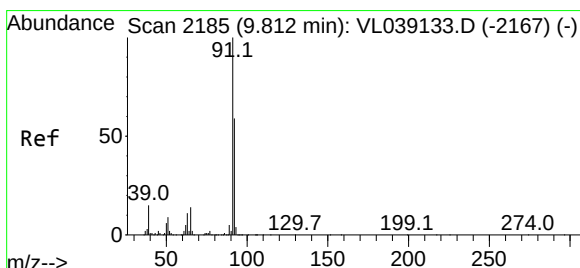
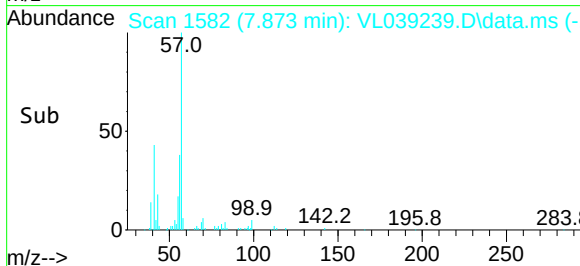
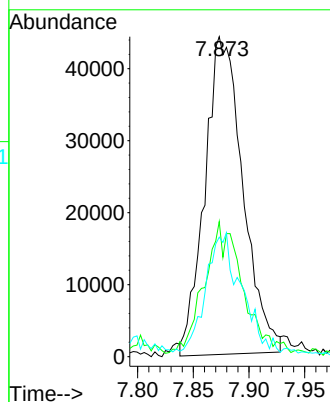
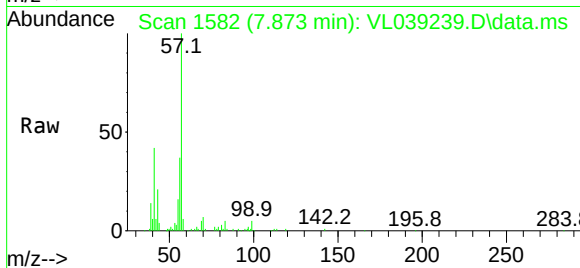
56 40.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/09/2022

Supervised By :Mahesh Dadoda 06/09/2022



#53

Toluene

Concen: 0.535 ppbv

RT: 9.812 min Scan# 2185

Delta R.T. -0.000 min

Lab File: VL039239.D

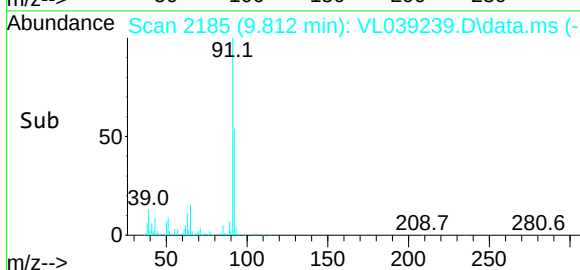
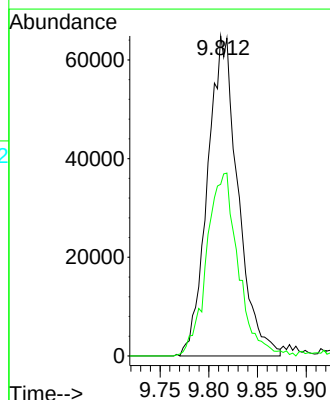
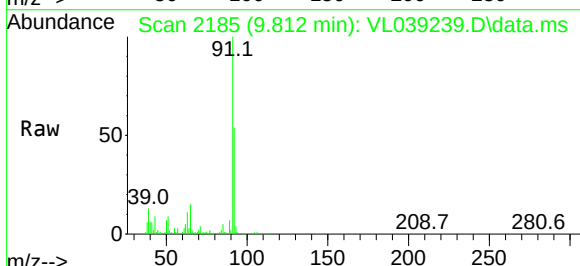
Acq: 8 Jun 2022 17:42

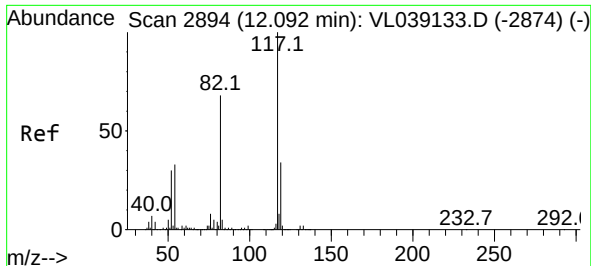
Tgt Ion: 91 Resp: 141287

Ion Ratio Lower Upper

91 100

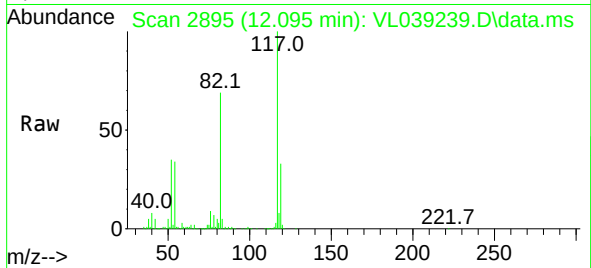
92 59.0 48.1 72.1





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.095 min Scan# 2895  
Delta R.T. 0.003 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

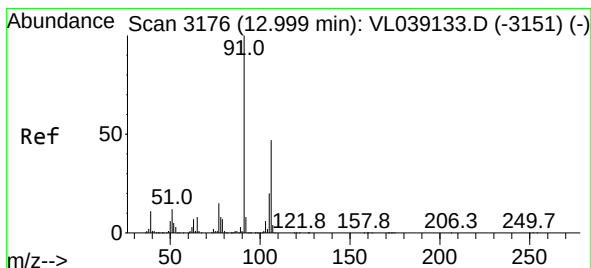
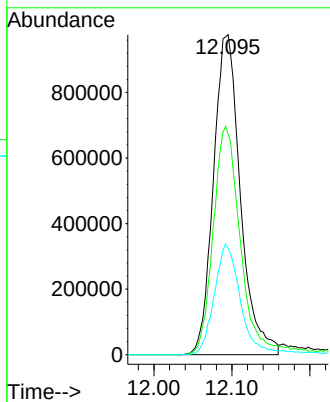
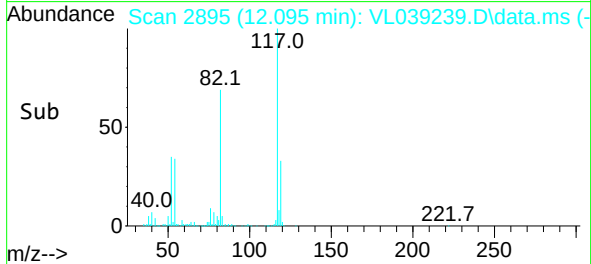
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2



Tgt Ion:117 Resp: 234611  
Ion Ratio Lower Upper  
117 100  
82 74.8 55.1 82.7  
119 34.3 24.7 37.1

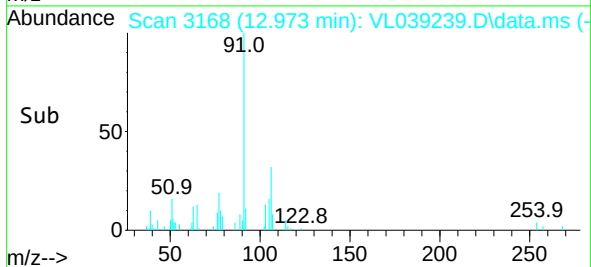
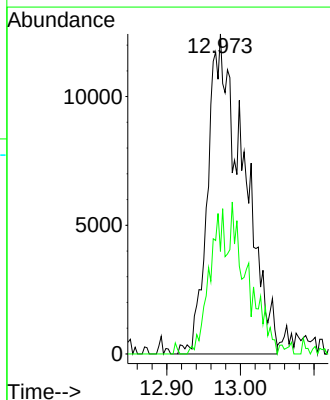
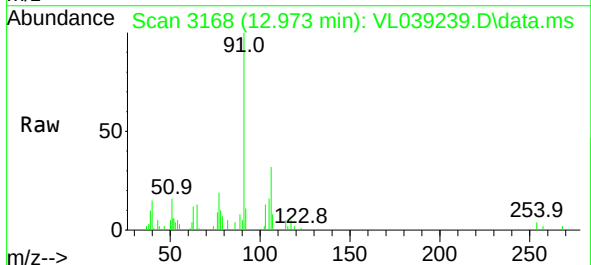
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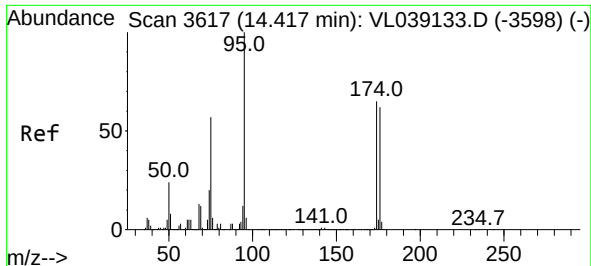
Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022



#59  
m/p-Xylene  
Concen: 0.147 ppbv m  
RT: 12.973 min Scan# 3168  
Delta R.T. -0.026 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

Tgt Ion: 91 Resp: 41809  
Ion Ratio Lower Upper  
91 100  
106 0.0 34.3 51.5#





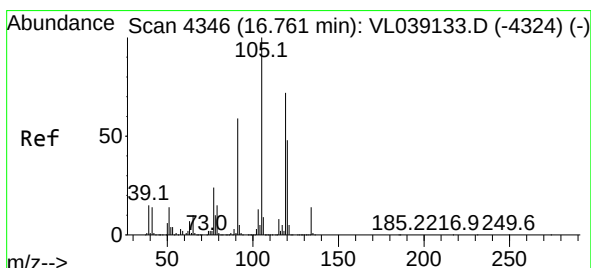
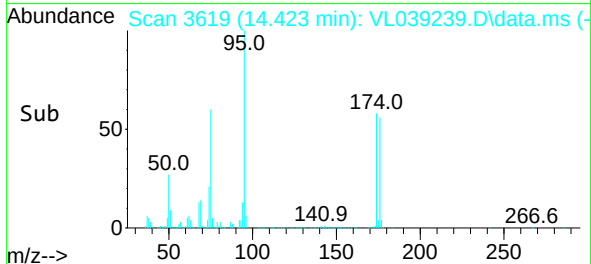
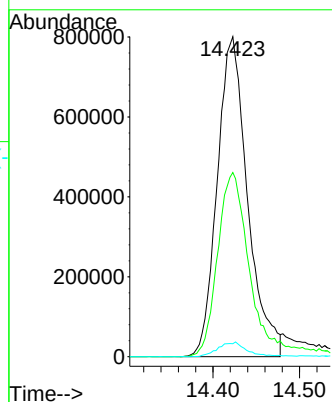
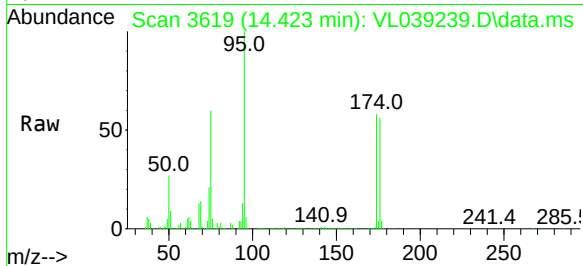
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.037 ppbv  
RT: 14.423 min Scan# 3619  
Delta R.T. 0.006 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2

Tgt Ion: 95 Resp: 194685  
Ion Ratio Lower Upper  
95 100  
174 64.7 53.8 80.8  
175 4.8 4.1 6.1

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 06/09/2022  
Supervised By :Mahesh Dadoda 06/09/2022



#74  
1,2,4-Trimethylbenzene  
Concen: 0.106 ppbv m  
RT: 16.767 min Scan# 4348  
Delta R.T. 0.006 min  
Lab File: VL039239.D  
Acq: 8 Jun 2022 17:42

Tgt Ion:105 Resp: 33296  
Ion Ratio Lower Upper  
105 100  
120 39.5 38.1 57.1  
91 14.7 47.4 71.0#  
77 9.7 19.5 29.3#

