

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL070522\  
 Data File : VL039426.D  
 Acq On : 5 Jul 2022 19:31  
 Operator : SY/AP  
 Sample : N3560-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2022  
 Supervised By :Mahesh Dadoda 07/07/2022

Quant Time: Jul 06 02:38:15 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 6

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

| Compound                    |  | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--|-----------|-------|----------|----------|------------|----------|
| -----                       |  |           |       |          |          |            |          |
| Internal Standards          |  |           |       |          |          |            |          |
| 1) Bromochloromethane       |  | 5.674     | 49    | 1242532  | 10.000   | ppbv       | 0.02     |
| 33) 1,4-Difluorobenzene     |  | 7.182     | 114   | 3475660  | 10.000   | ppbv       | 0.03     |
| 55) Chlorobenzene-d5        |  | 12.092    | 117   | 2918169  | 10.000   | ppbv       | 0.03     |
|                             |  |           |       |          |          |            |          |
| System Monitoring Compounds |  |           |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene |  | 14.420    | 95    | 2180589  | 10.073   | ppbv       | 0.03     |
| Spiked Amount               |  | 10.000    | Range | 65 - 135 | Recovery | = 100.700% |          |
|                             |  |           |       |          |          |            |          |
| Target Compounds            |  |           |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  |  | 3.060     | 85    | 49768    | 0.278    | ppbv       | 96       |
| 3) Chlorodifluoromethane    |  | 2.996     | 51    | 63188m   | 0.401    | ppbv       | # 86     |
| 4) Chloromethane            |  | 3.153     | 50    | 39073    | 0.453    | ppbv       |          |
| 9) Propene                  |  | 3.022     | 41    | 46500m   | 0.653    | ppbv       |          |
| 11) Trichlorofluoromethane  |  | 3.964     | 101   | 45636m   | 0.229    | ppbv       | # 96     |
| 13) Ethanol                 |  | 3.610     | 45    | 68311m   | 16.539   | ppbv       |          |
| 15) Acetone                 |  | 3.854     | 43    | 731842m  | 4.979    | ppbv       |          |
| 19) Isopropyl Alcohol       |  | 3.983     | 45    | 53357m   | 0.680    | ppbv       | # 38     |
| 20) Methylene Chloride      |  | 4.353     | 84    | 1593929  | 27.204   | ppbv       |          |
| 26) Hexane                  |  | 5.694     | 57    | 1274672  | 10.491   | ppbv       |          |
| 30) Cyclohexane             |  | 7.137     | 84    | 14568m   | 0.132    | ppbv       | # 86     |
| 34) 2-Butanone              |  | 5.256     | 43    | 52447m   | 0.300    | ppbv       |          |
| 35) Carbon Tetrachloride    |  | 7.028     | 117   | 11235m   | 0.052    | ppbv       |          |
| 36) Benzene                 |  | 6.902     | 78    | 48695m   | 0.181    | ppbv       | # 96     |
| 44) 2,2,4-Trimethylpentane  |  | 7.880     | 57    | 59559m   | 0.131    | ppbv       |          |
| 52) Tetrachloroethene       |  | 11.221    | 164   | 14217m   | 0.131    | ppbv       |          |
| 53) Toluene                 |  | 9.809     | 91    | 122227m  | 0.394    | ppbv       | # 38     |
| 59) m/p-Xylene              |  | 12.970    | 91    | 55098m   | 0.166    | ppbv       |          |
| -----                       |  |           |       |          |          |            |          |

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

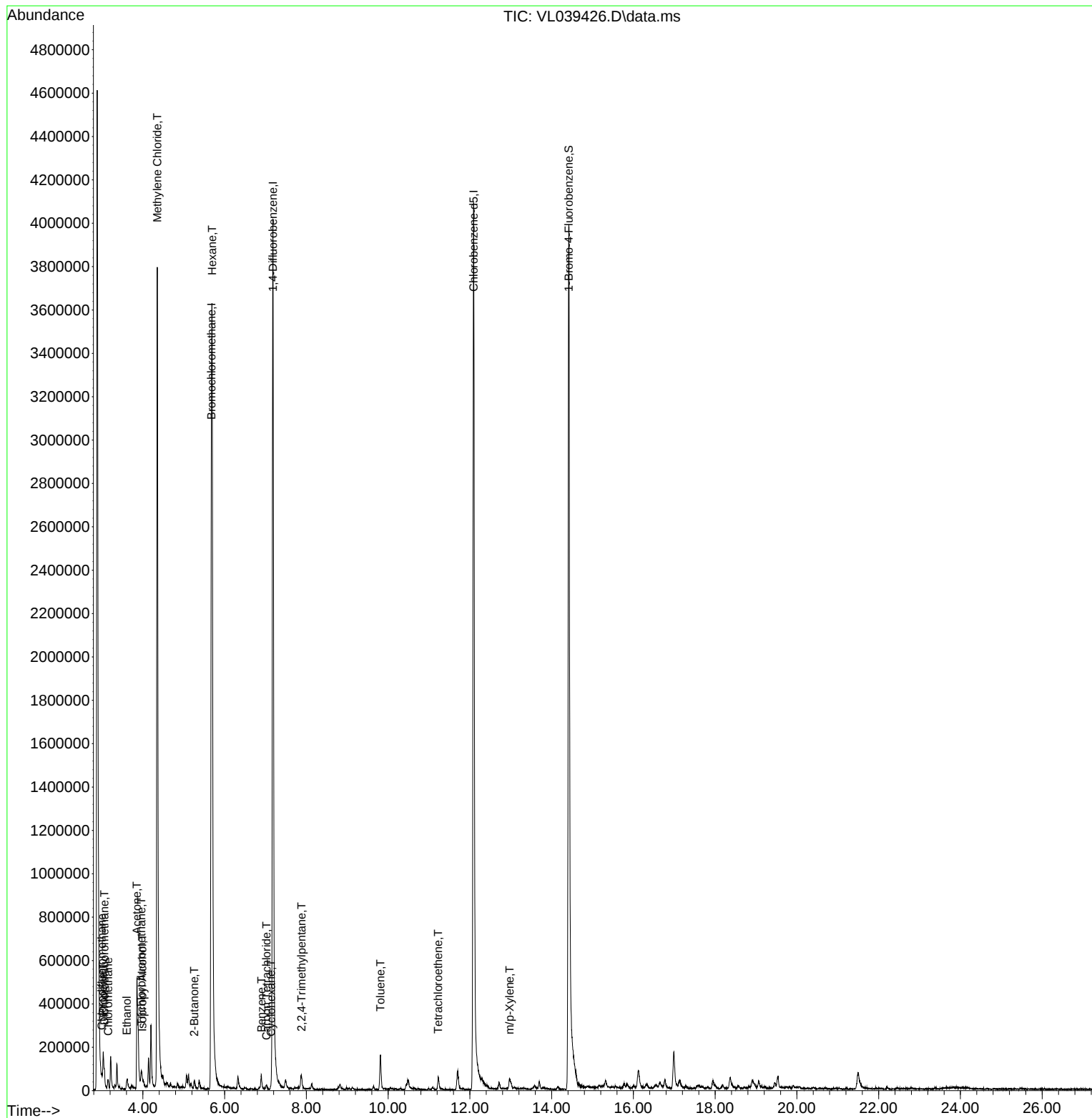
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL070522\  
Data File : VL039426.D  
Acq On : 5 Jul 2022 19:31  
Operator : SY/AP  
Sample : N3560-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

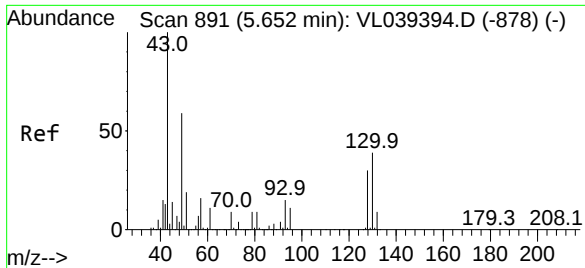
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022

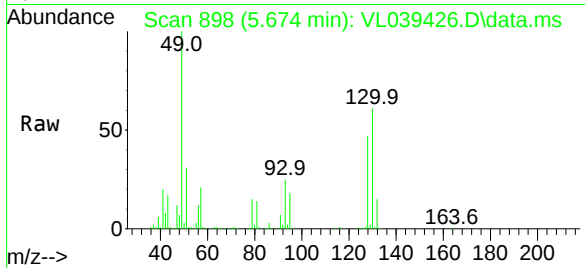
Quant Time: Jul 06 02:38:15 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul  
QLast Update : Wed Jul 06 02:15:38 2022  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.674 min Scan# 89  
Delta R.T. 0.023 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

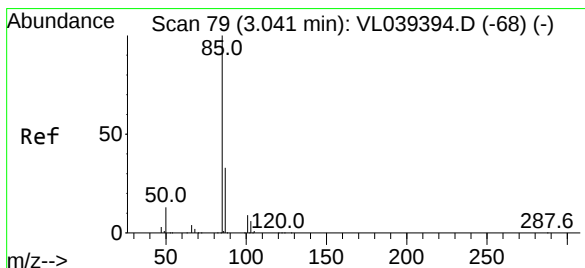
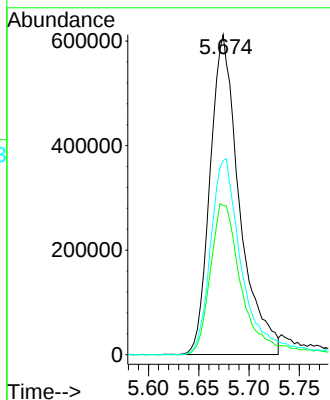
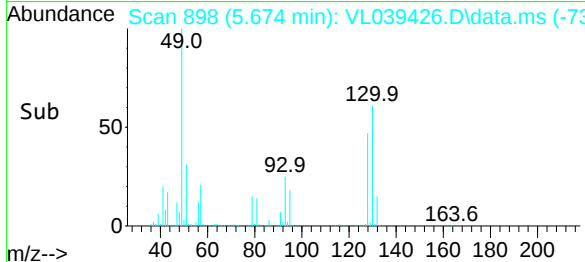
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 49 Resp: 124253  
Ion Ratio Lower Upper  
49 100  
128 52.4 26.7 80.0  
130 67.7 34.3 102.8

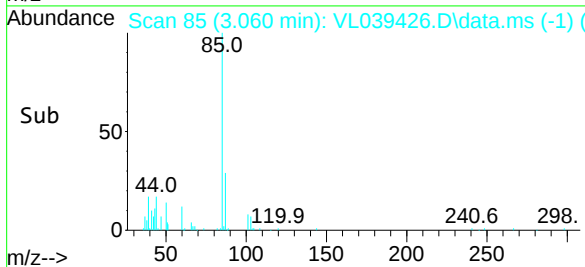
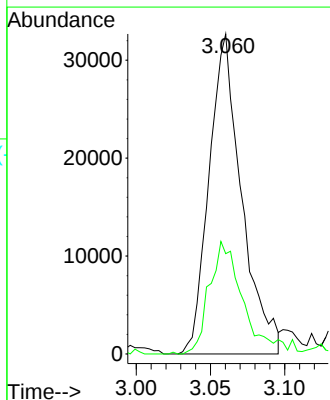
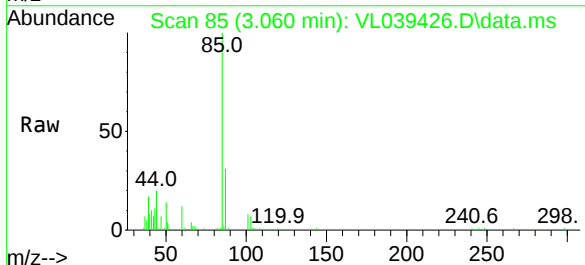
Manual Integrations  
APPROVED

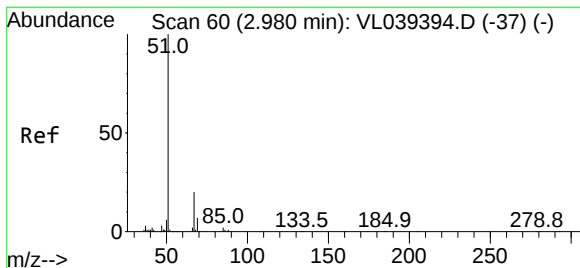
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#2  
Dichlorodifluoromethane  
Concen: 0.278 ppbv  
RT: 3.060 min Scan# 85  
Delta R.T. 0.019 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

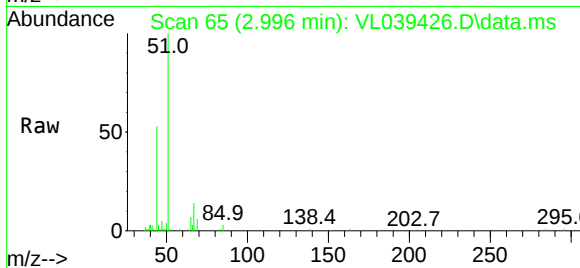
Tgt Ion: 85 Resp: 49768  
Ion Ratio Lower Upper  
85 100  
87 31.4 26.7 40.1





#3  
Chlorodifluoromethane  
Concen: 0.401 ppbv m  
RT: 2.996 min Scan# 60  
Delta R.T. 0.016 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

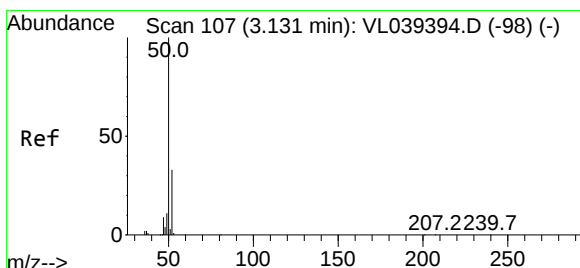
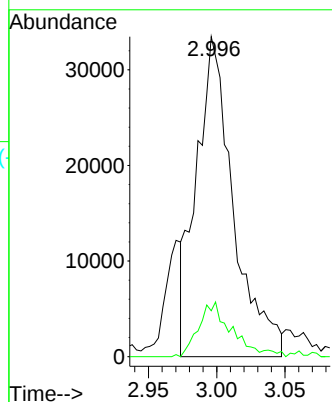
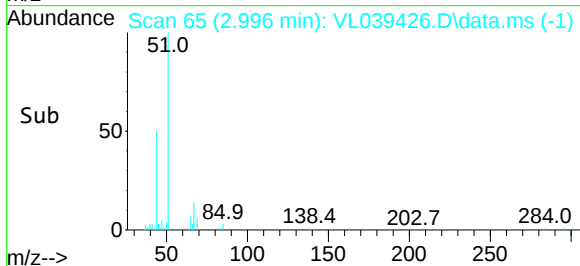
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 51 Resp: 63188  
Ion Ratio Lower Upper  
51 100  
67 15.3 15.7 23.5

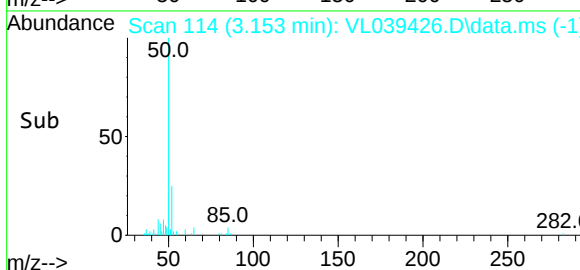
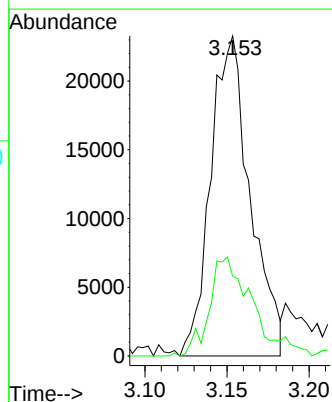
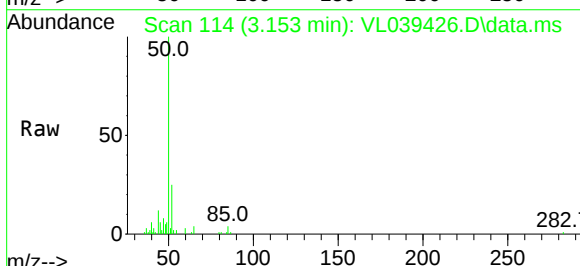
Manual Integrations  
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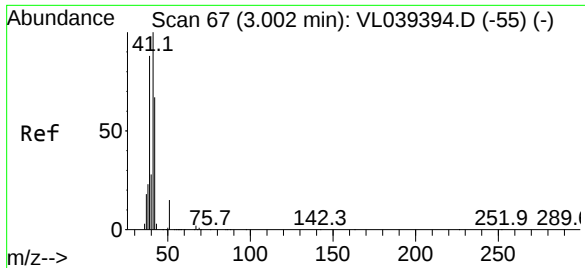
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#4  
Chloromethane  
Concen: 0.453 ppbv  
RT: 3.153 min Scan# 114  
Delta R.T. 0.023 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

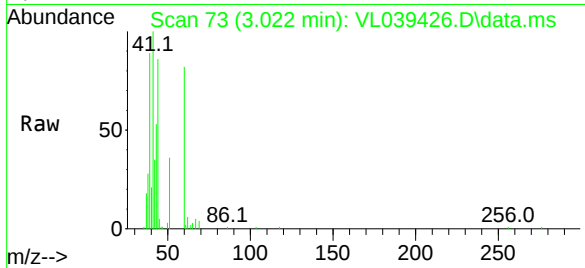
Tgt Ion: 50 Resp: 39073  
Ion Ratio Lower Upper  
50 100  
52 25.2 26.5 39.7





#9  
 Propene  
 Concen: 0.653 ppbv m  
 RT: 3.022 min Scan# 71  
 Delta R.T. 0.019 min  
 Lab File: VL039426.D  
 Acq: 5 Jul 2022 19:31

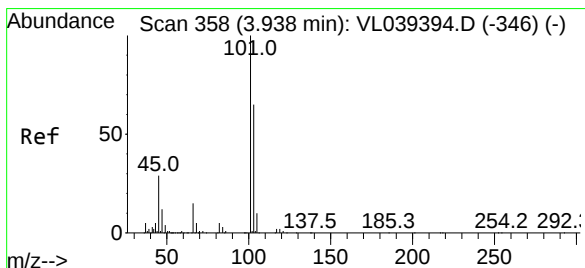
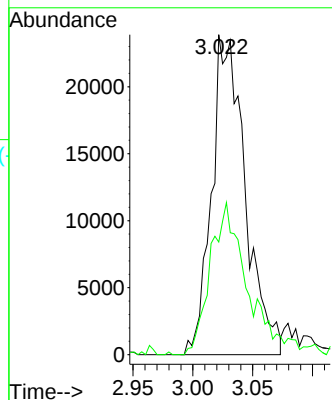
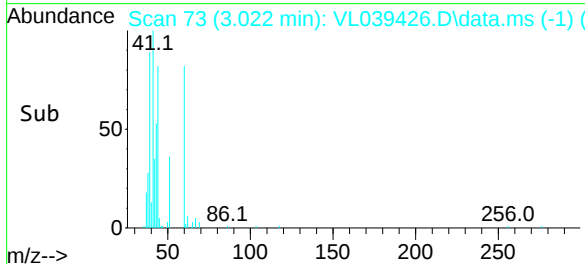
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1



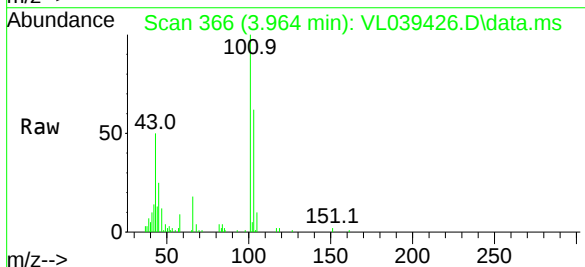
Tgt Ion: 41 Resp: 46500  
 Ion Ratio Lower Upper  
 41 100  
 42 34.6 55.2 82.8

Manual Integrations  
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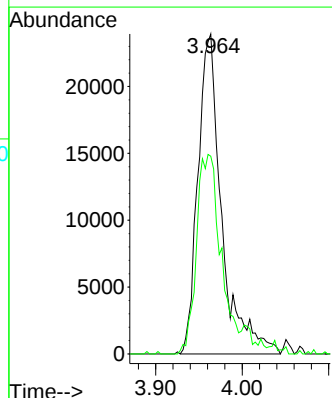
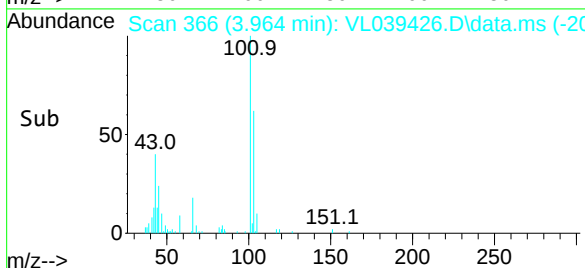
Reviewed By :Semsettin Yesilyurt 07/07/2022  
 Supervised By :Mahesh Dadoda 07/07/2022

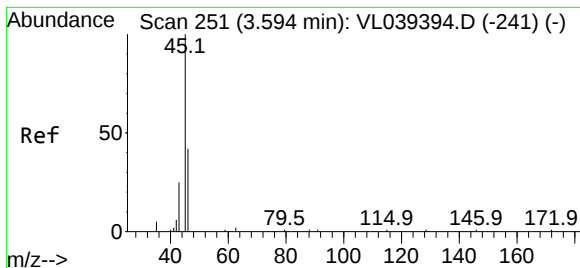


#11  
 Trichlorofluoromethane  
 Concen: 0.229 ppbv m  
 RT: 3.964 min Scan# 366  
 Delta R.T. 0.026 min  
 Lab File: VL039426.D  
 Acq: 5 Jul 2022 19:31



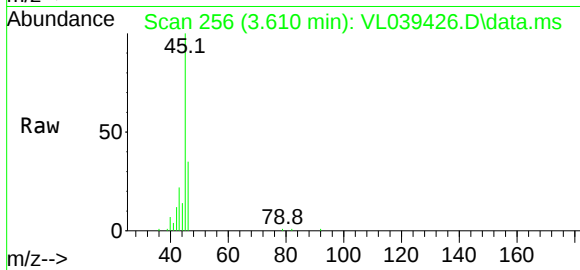
Tgt Ion:101 Resp: 45636  
 Ion Ratio Lower Upper  
 101 100  
 103 61.8 51.8 77.8





#13  
Ethanol  
Concen: 16.539 ppbv m  
RT: 3.610 min Scan# 251  
Delta R.T. 0.016 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

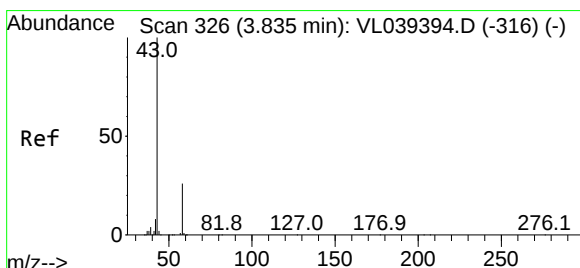
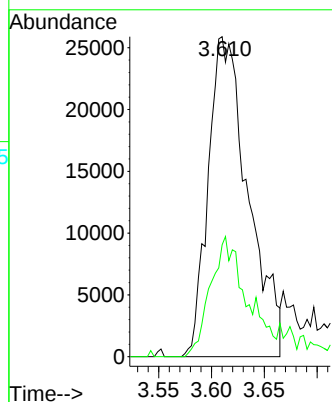
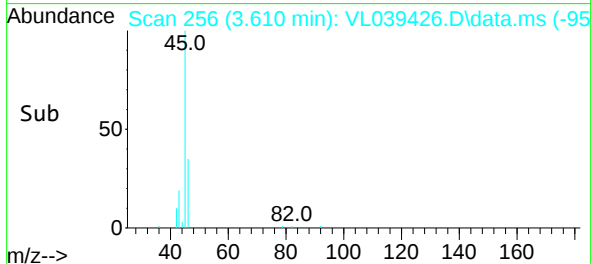
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 45 Resp: 6831  
Ion Ratio Lower Upper  
45 100  
46 0.0 22.8 91.2

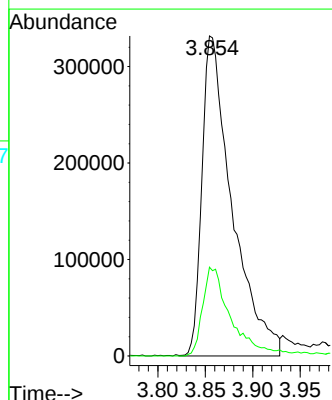
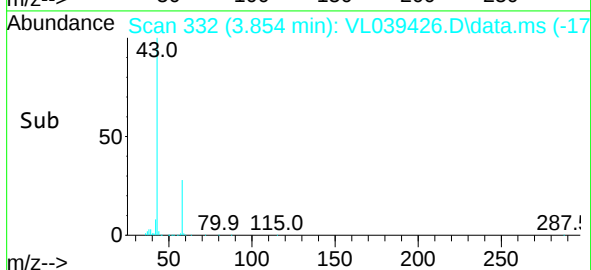
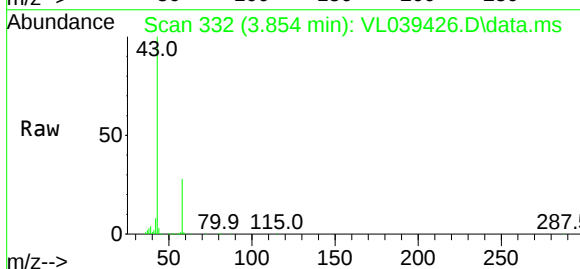
Manual Integrations  
APPROVED

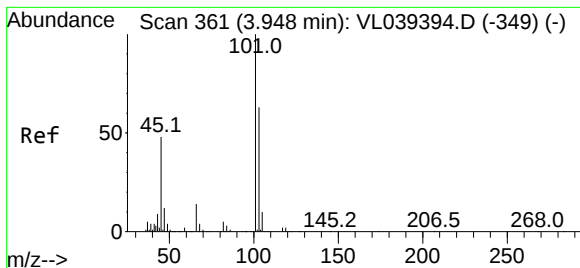
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#15  
Acetone  
Concen: 4.979 ppbv m  
RT: 3.854 min Scan# 332  
Delta R.T. 0.019 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

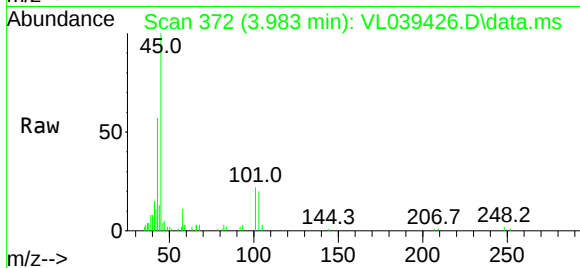
Tgt Ion: 43 Resp: 731842  
Ion Ratio Lower Upper  
43 100  
58 27.6 21.0 31.6





#19  
Isopropyl Alcohol  
Concen: 0.680 ppbv m  
RT: 3.983 min Scan# 31  
Delta R.T. 0.035 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

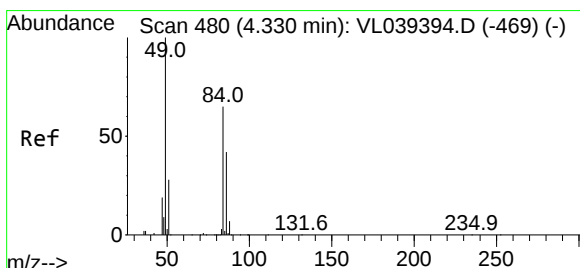
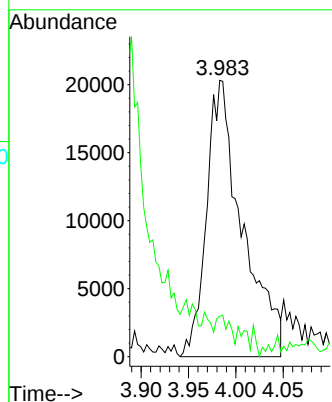
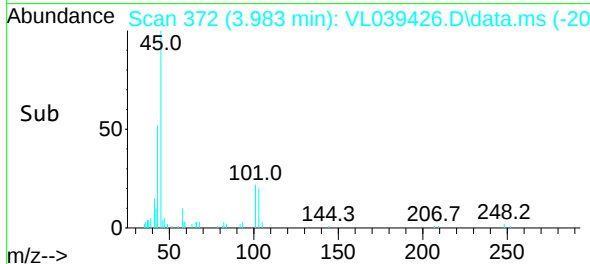
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 45 Resp: 5335  
Ion Ratio Lower Upper  
45 100  
58 0.0 3.2 4.8

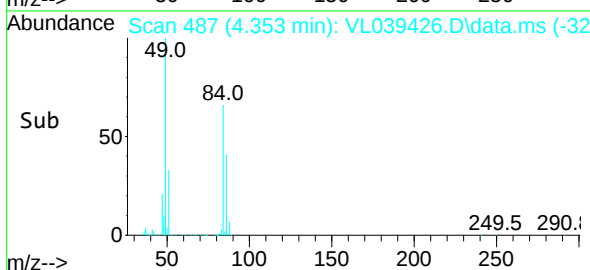
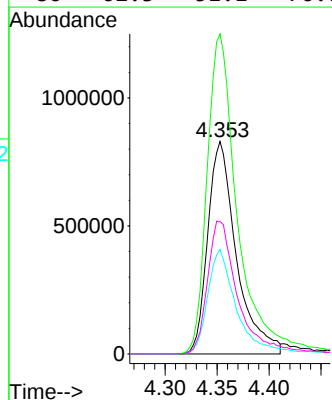
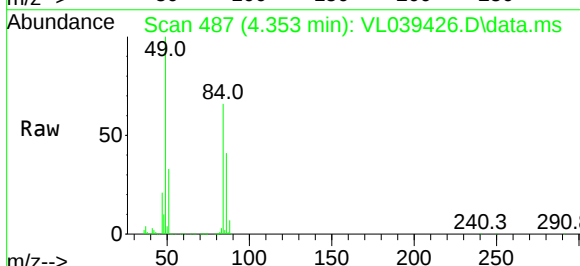
Manual Integrations  
APPROVED

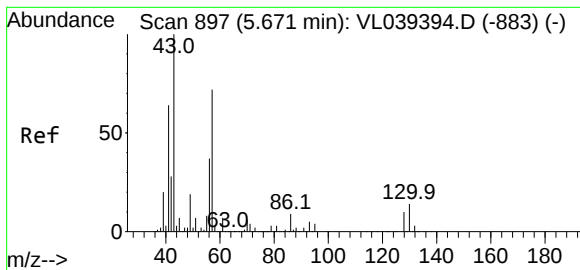
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#20  
Methylene Chloride  
Concen: 27.204 ppbv  
RT: 4.353 min Scan# 487  
Delta R.T. 0.023 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

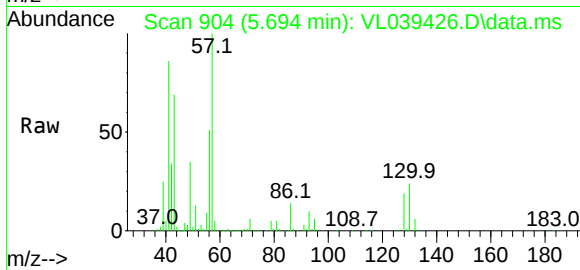
Tgt Ion: 84 Resp: 1593929  
Ion Ratio Lower Upper  
84 100  
49 150.5 123.1 184.7  
51 49.1 34.4 51.6  
86 62.3 51.1 76.7





#26  
Hexane  
Concen: 10.491 ppbv  
RT: 5.694 min Scan# 904  
Delta R.T. 0.023 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

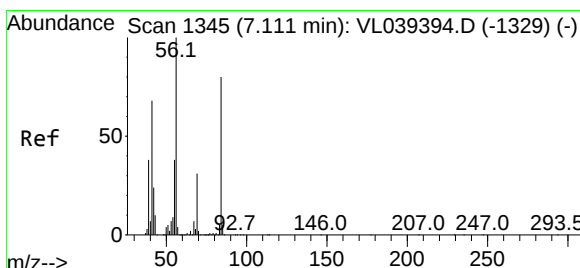
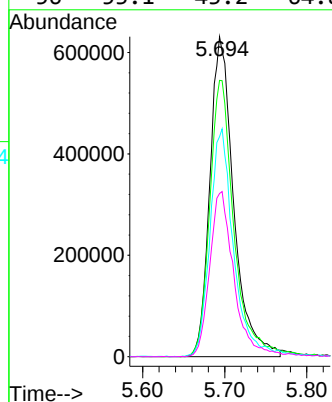
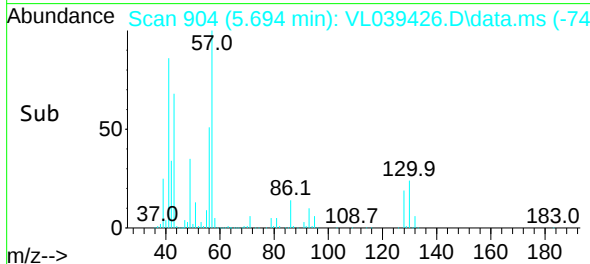
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 57 Resp: 1274672  
Ion Ratio Lower Upper  
57 100  
41 89.2 76.9 115.3  
43 71.7 191.0 286.6  
56 53.1 43.2 64.8

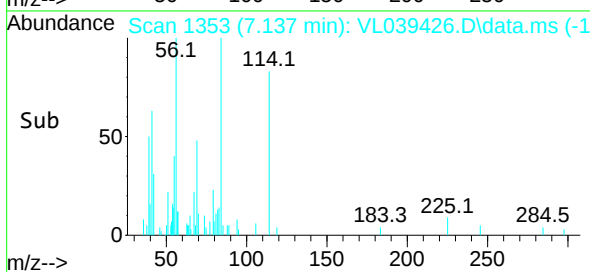
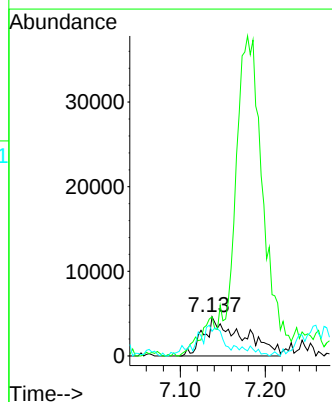
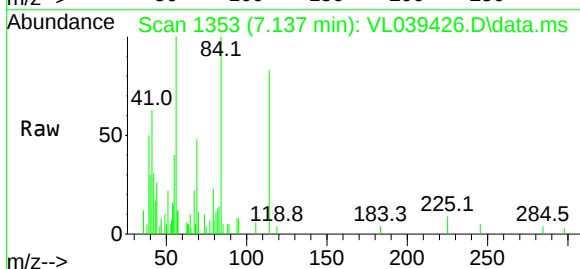
Manual Integrations  
APPROVED

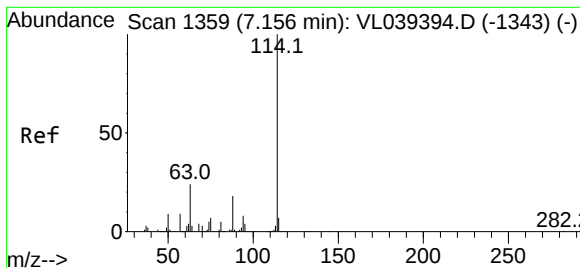
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#30  
Cyclohexane  
Concen: 0.132 ppbv m  
RT: 7.137 min Scan# 1353  
Delta R.T. 0.026 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

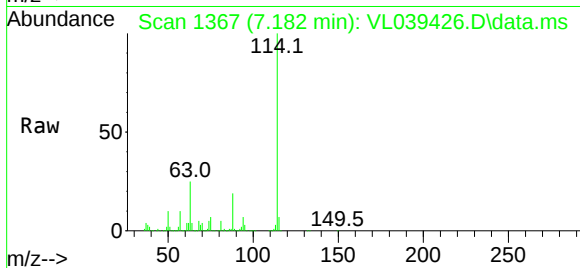
Tgt Ion: 84 Resp: 14568  
Ion Ratio Lower Upper  
84 100  
56 0.0 107.7 161.5#  
41 65.3 67.7 101.5#





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.182 min Scan# 114  
Delta R.T. 0.026 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

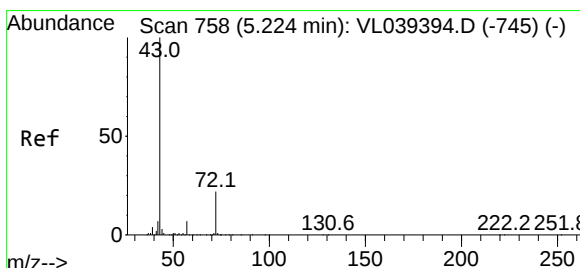
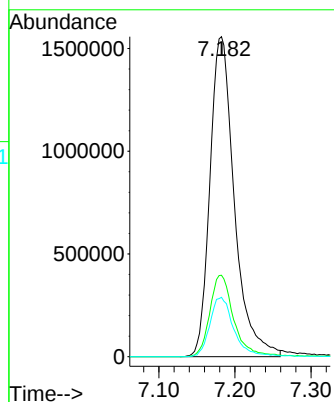
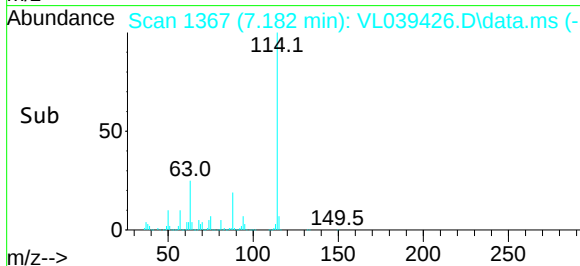
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



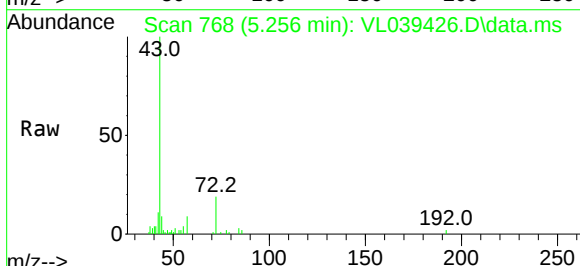
Tgt Ion:114 Resp: 347566  
Ion Ratio Lower Upper  
114 100  
63 25.4 20.2 30.4  
88 18.5 14.5 21.7

Manual Integrations  
APPROVED

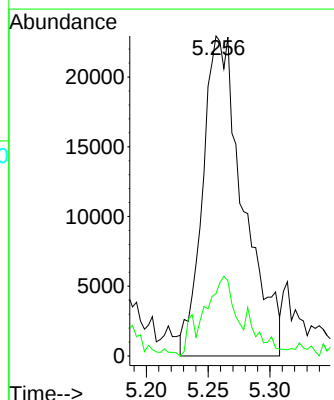
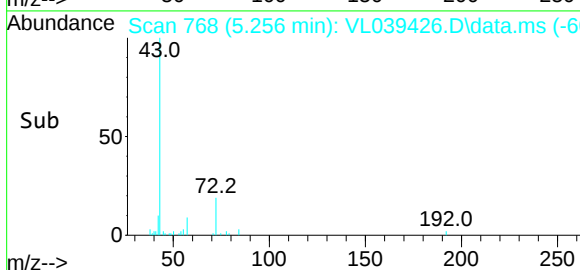
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022

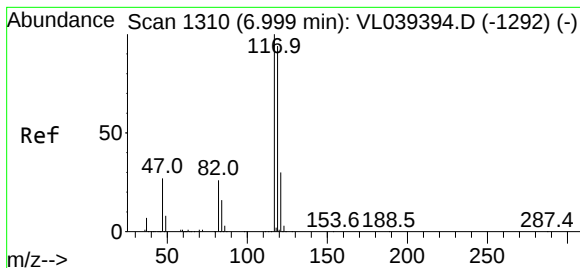


#34  
2-Butanone  
Concen: 0.300 ppbv m  
RT: 5.256 min Scan# 768  
Delta R.T. 0.032 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31



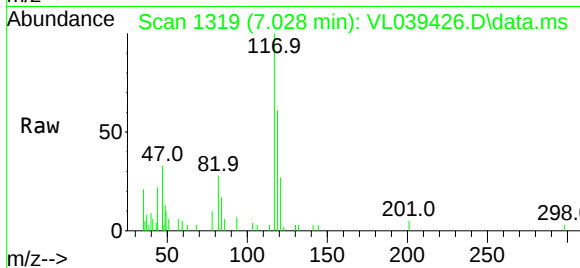
Tgt Ion: 43 Resp: 52447  
Ion Ratio Lower Upper  
43 100  
72 26.0 17.9 26.9





#35  
Carbon Tetrachloride  
Concen: 0.052 ppbv m  
RT: 7.028 min Scan# 1123  
Delta R.T. 0.029 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

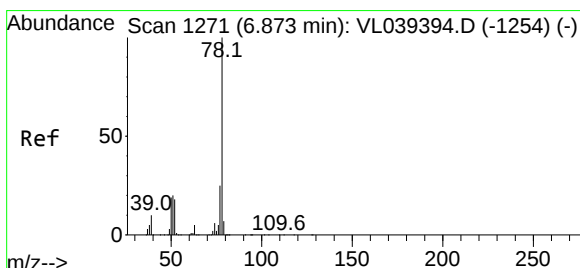
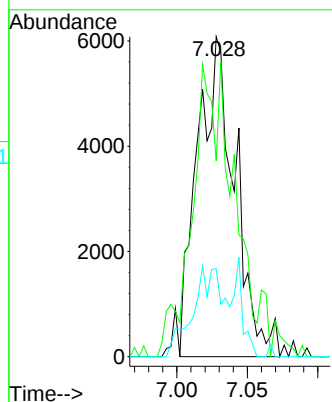
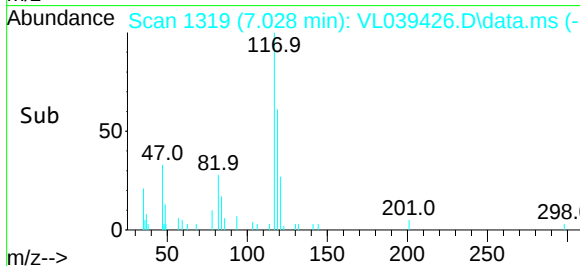
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 117 Resp: 1123  
Ion Ratio Lower Upper  
117 100  
119 61.2 75.4 113.2  
121 27.5 24.2 36.2

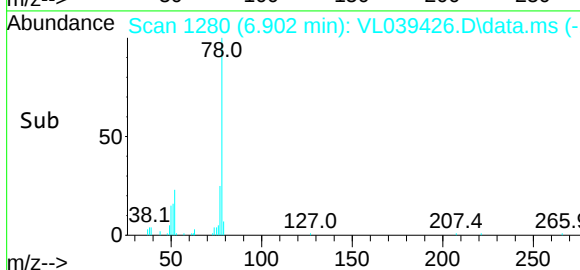
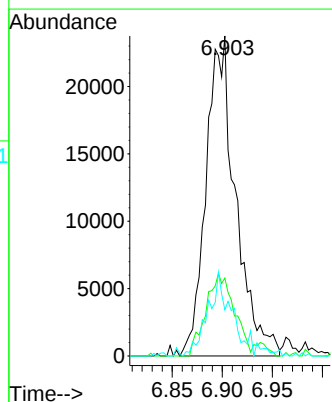
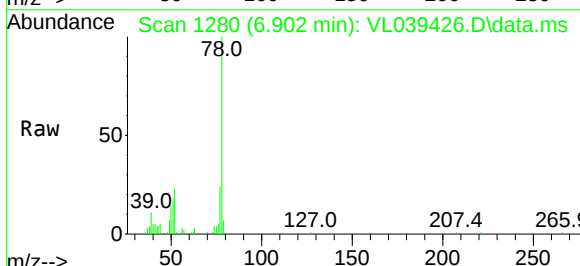
Manual Integrations  
APPROVED

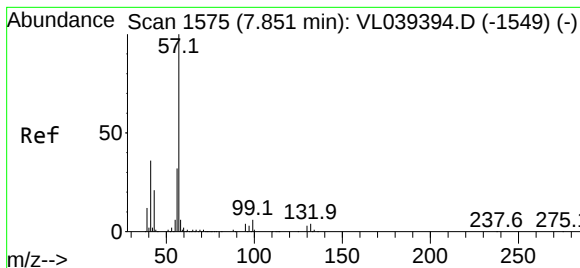
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#36  
Benzene  
Concen: 0.181 ppbv m  
RT: 6.902 min Scan# 1280  
Delta R.T. 0.029 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

Tgt Ion: 78 Resp: 48695  
Ion Ratio Lower Upper  
78 100  
77 24.4 20.3 30.5  
50 14.4 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 0.131 ppbv m

RT: 7.880 min Scan# 1575

Delta R.T. 0.029 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

Instrument :

MSVOA\_L

ClientSampleId :

IA1

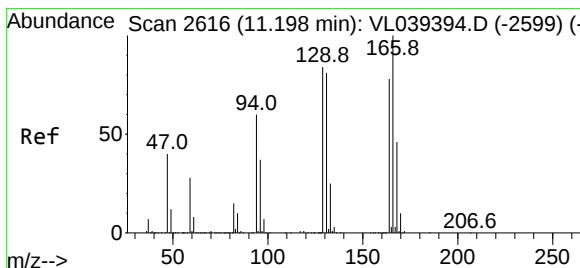
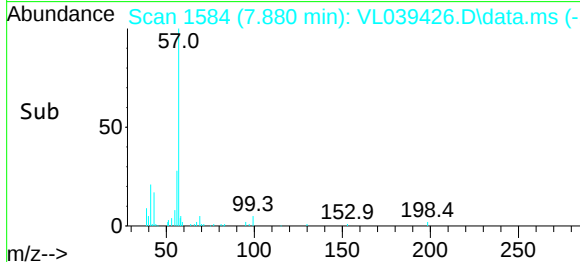
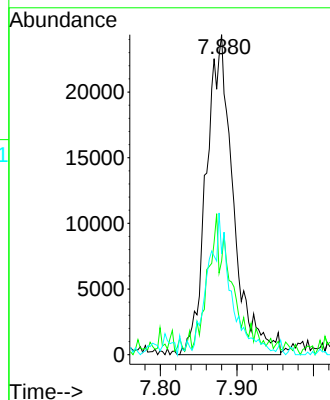
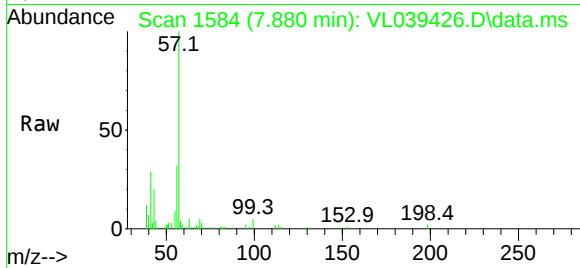
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 5955  |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 39.0  | 27.4  | 41.2  |
| 56       | 40.2  | 24.5  | 36.7  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2022

Supervised By :Mahesh Dadoda 07/07/2022



#52

Tetrachloroethene

Concen: 0.131 ppbv m

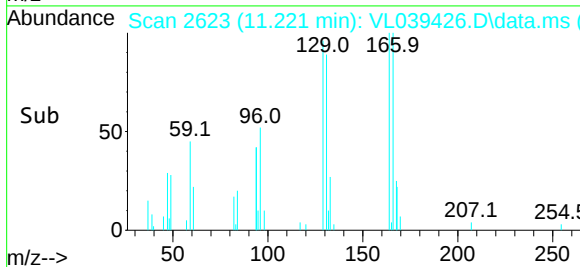
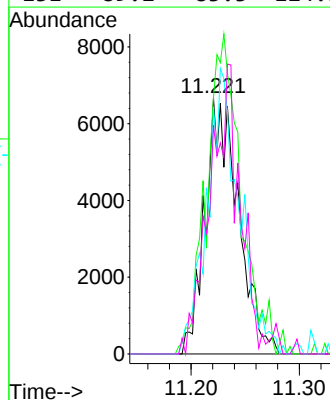
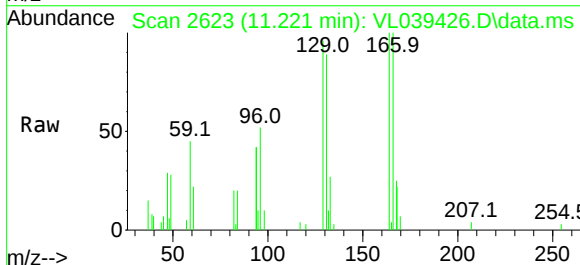
RT: 11.221 min Scan# 2623

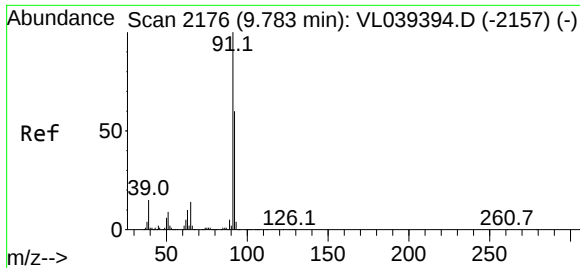
Delta R.T. 0.023 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 14217 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 99.9  | 102.2 | 153.2 |
| 129      | 96.4  | 85.8  | 128.8 |
| 131      | 89.2  | 83.3  | 124.9 |





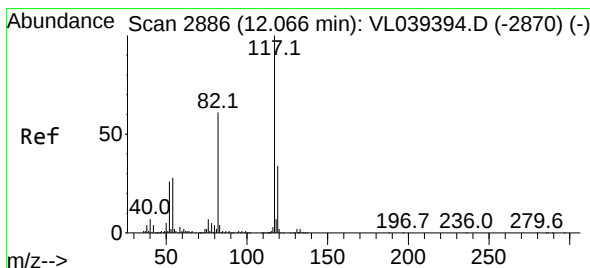
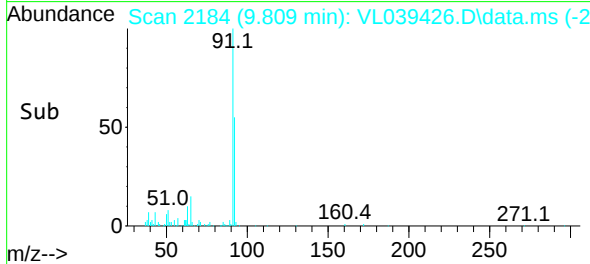
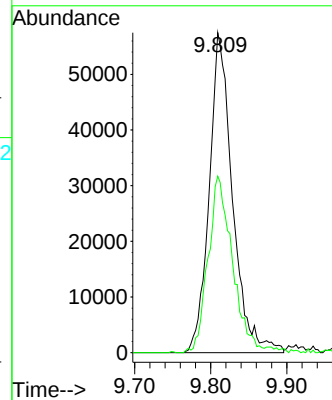
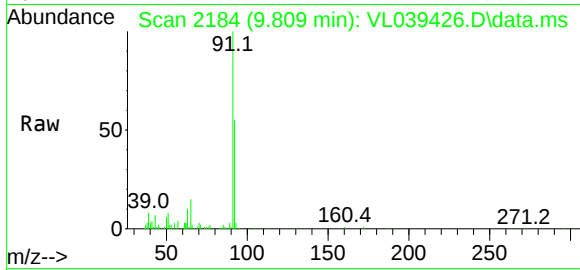
#53  
Toluene  
Concen: 0.394 ppbv m  
RT: 9.809 min Scan# 2176  
Delta R.T. 0.026 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion: 91 Resp: 12222  
Ion Ratio Lower Upper  
91 100  
92 58.6 48.2 72.2

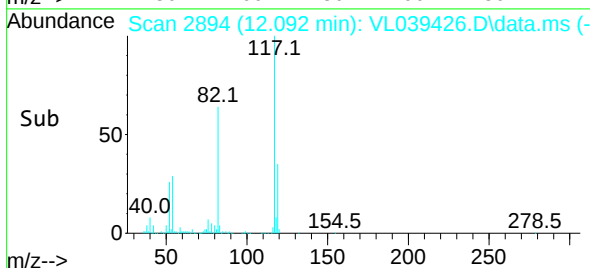
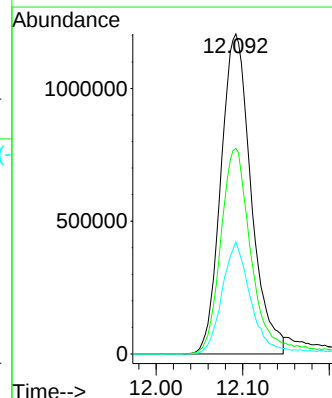
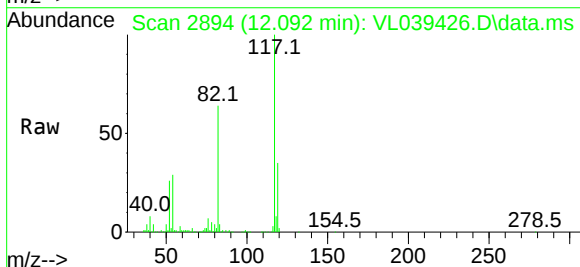
Manual Integrations  
APPROVED

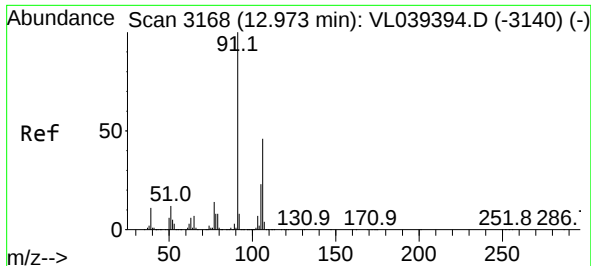
Reviewed By :Semsettin Yesilyurt 07/07/2022  
Supervised By :Mahesh Dadoda 07/07/2022



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.092 min Scan# 2894  
Delta R.T. 0.026 min  
Lab File: VL039426.D  
Acq: 5 Jul 2022 19:31

Tgt Ion:117 Resp: 2918169  
Ion Ratio Lower Upper  
117 100  
82 68.1 50.8 76.2  
119 35.3 24.1 36.1





#59

m/p-Xylene

Concen: 0.166 ppbv m

RT: 12.970 min Scan# 3168

Delta R.T. -0.003 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

Instrument :

MSVOA\_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 5509

Ion Ratio Lower Upper

91 100

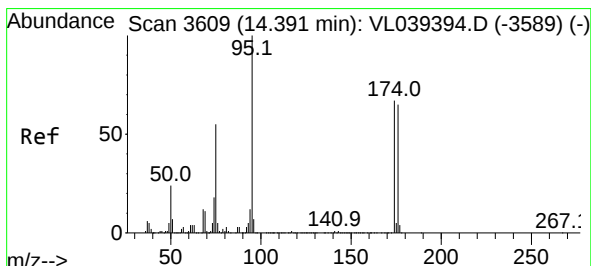
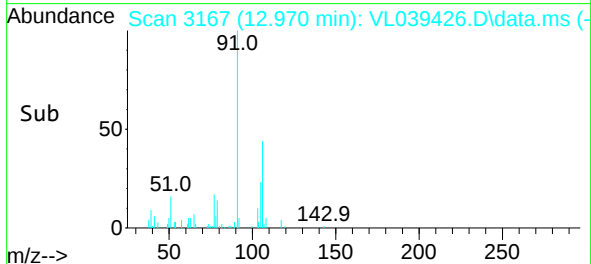
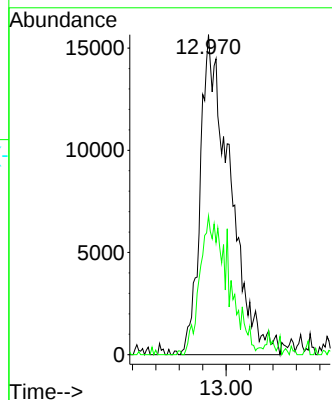
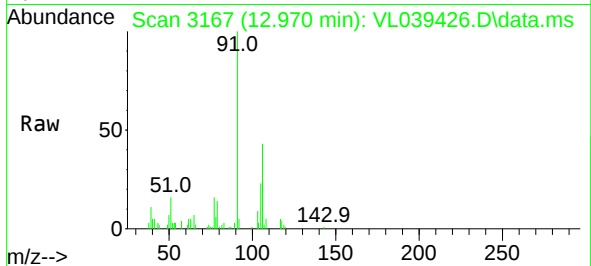
106 0.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2022

Supervised By :Mahesh Dadoda 07/07/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.073 ppbv

RT: 14.420 min Scan# 3618

Delta R.T. 0.029 min

Lab File: VL039426.D

Acq: 5 Jul 2022 19:31

Tgt Ion: 95 Resp: 2180589

Ion Ratio Lower Upper

95 100

174 74.5 55.9 83.9

175 5.3 4.2 6.4

