

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032822\  
 Data File : VL038789.D  
 Acq On : 29 Mar 2022 2:57  
 Operator : SY/AP  
 Sample : N2136-02DL 5X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1DL

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022  
 Supervised By : Mahesh Dadoda 03/29/2022

Quant Time: Mar 29 06:15:13 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 29 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.658  | 49    | 932037   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 7.166  | 114   | 2699185  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 12.073 | 117   | 2464527  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 14.400 | 95    | 1801198  | 9.533    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 95.300%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 3.054  | 85    | 16828    | 0.134    | ppbv   | 90       |
| 3) Chlorodifluoromethane    | 2.993  | 51    | 17709m   | 0.180    | ppbv   |          |
| 7) Chloroethane             | 3.562  | 64    | 2870m    | 0.158    | ppbv   |          |
| 9) Propene                  | 3.028  | 41    | 222985   | 4.692    | ppbv # | 62       |
| 10) Heptane                 | 8.111  | 43    | 143393   | 1.262    | ppbv   | 98       |
| 13) Ethanol                 | 3.616  | 45    | 15896m   | 3.032    | ppbv   |          |
| 15) Acetone                 | 3.851  | 43    | 270358m  | 3.362    | ppbv   |          |
| 17) tert-Butyl alcohol      | 4.311  | 59    | 33717    | 0.480    | ppbv # | 90       |
| 19) Isopropyl Alcohol       | 3.986  | 45    | 8597m    | 0.193    | ppbv   |          |
| 20) Methylene Chloride      | 4.343  | 84    | 34643    | 1.023    | ppbv   | 92       |
| 23) Vinyl Acetate           | 5.066  | 43    | 364882   | 4.685    | ppbv # | 96       |
| 26) Hexane                  | 5.681  | 57    | 975429   | 10.762   | ppbv # | 28       |
| 28) Methyl tert-Butyl Ether | 5.037  | 73    | 42873    | 0.635    | ppbv   | 99       |
| 29) Chloroform              | 5.745  | 83    | 55068    | 0.379    | ppbv   | 84       |
| 30) Cyclohexane             | 7.121  | 84    | 35325m   | 0.448    | ppbv   |          |
| 34) 2-Butanone              | 5.250  | 43    | 69263m   | 0.648    | ppbv   |          |
| 36) Benzene                 | 6.883  | 78    | 32232    | 0.155    | ppbv # | 92       |
| 51) 2-Hexanone              | 10.137 | 43    | 40451m   | 0.284    | ppbv   |          |
| 52) Tetrachloroethene       | 11.211 | 164   | 43634    | 0.572    | ppbv   | 96       |
| 53) Toluene                 | 9.793  | 91    | 23902m   | 0.107    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

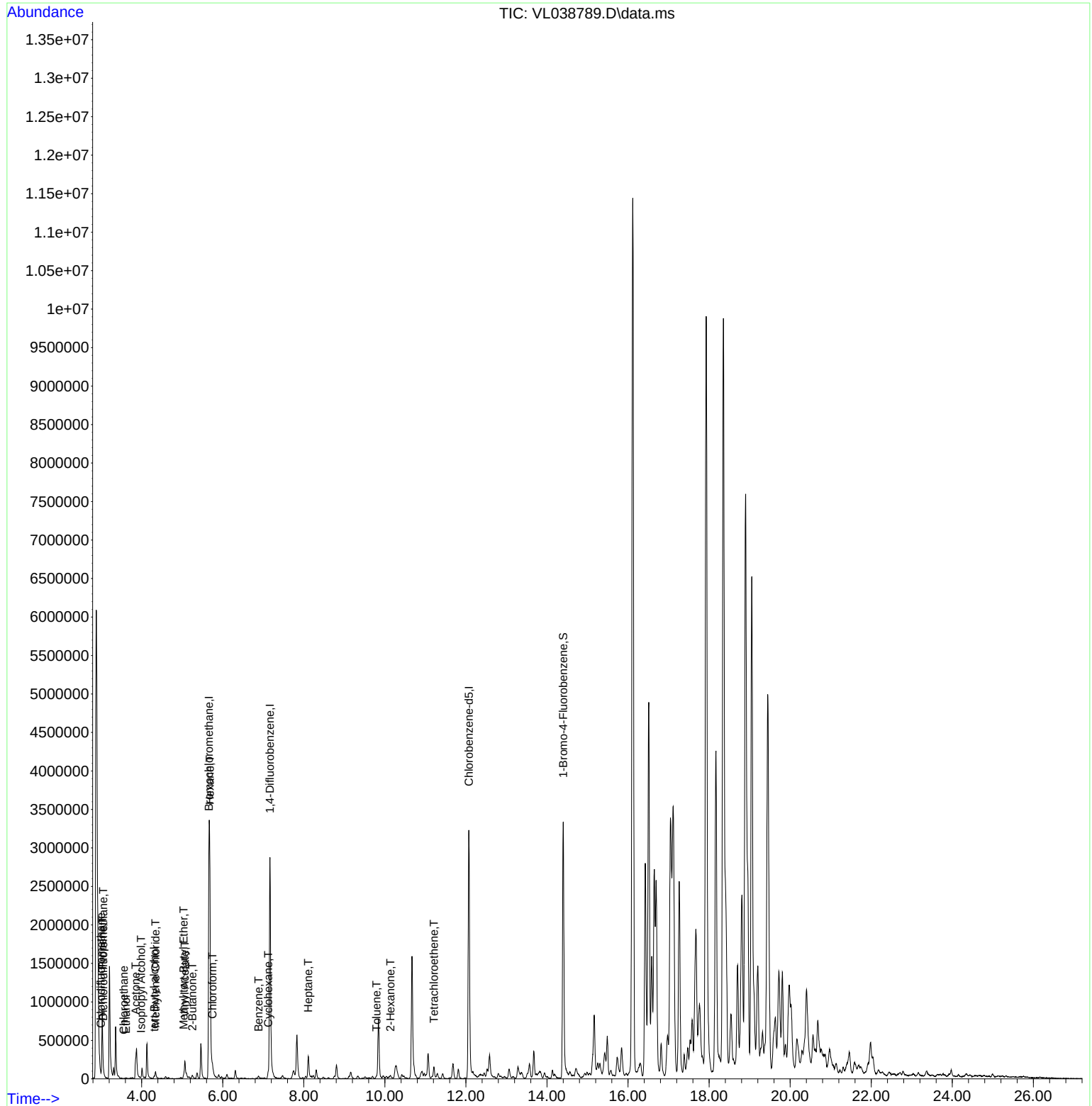
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032822\  
Data File : VL038789.D  
Acq On : 29 Mar 2022 2:57  
Operator : SY/AP  
Sample : N2136-02DL 5X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

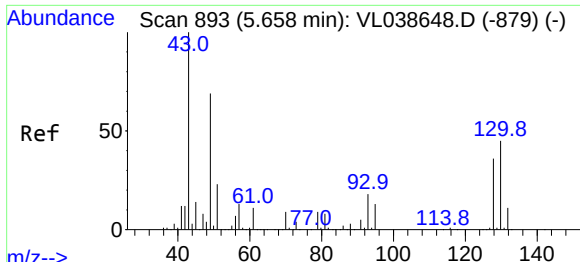
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022  
Supervised By : Mahesh Dadoda 03/29/2022

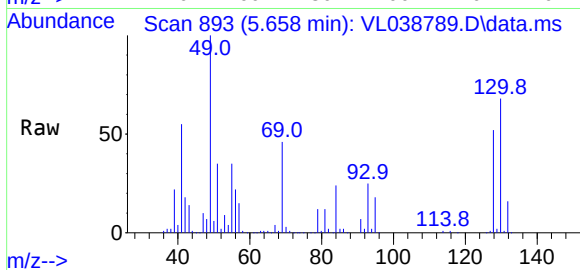
Quant Time: Mar 29 06:15:13 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar  
QLast Update : Mon Mar 21 17:09:26 2022  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.658 min Scan# 893  
Delta R.T. -0.000 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

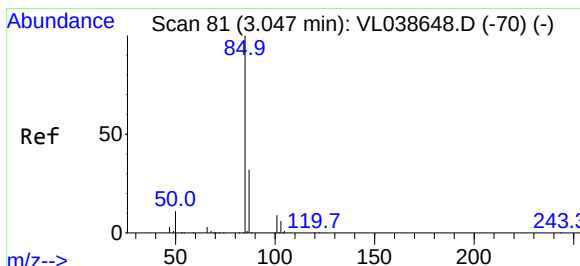
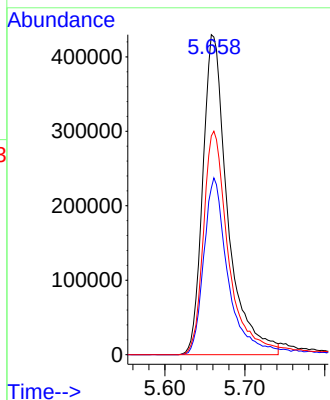
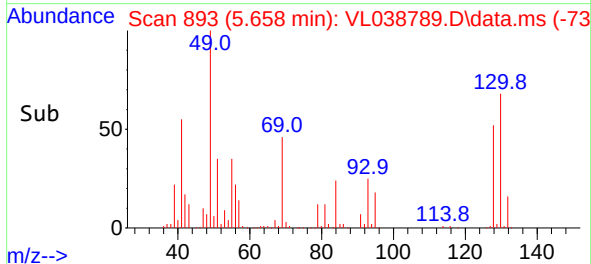
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



Tgt Ion: 49 Resp: 93203  
Ion Ratio Lower Upper  
49 100  
128 56.4 26.2 78.6  
130 73.9 33.7 101.1

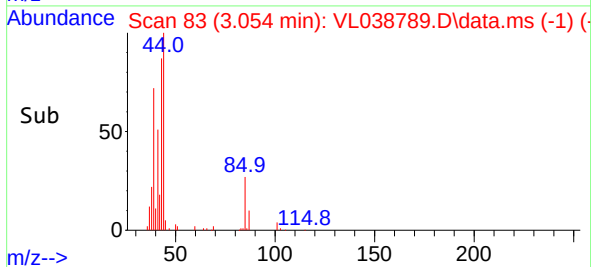
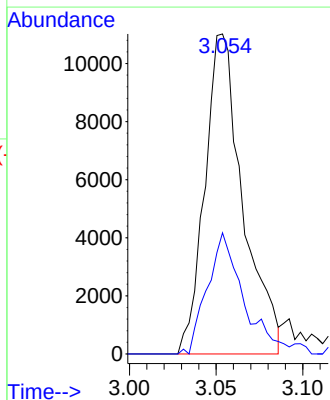
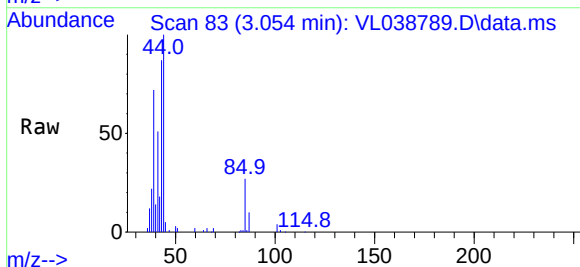
Manual Integrations  
APPROVED

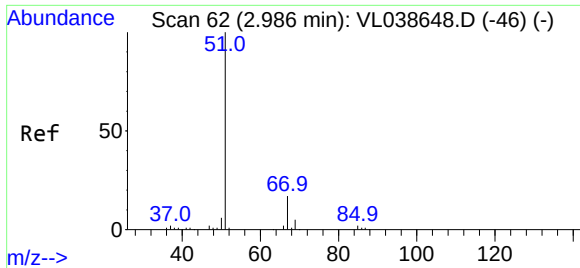
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022



#2  
Dichlorodifluoromethane  
Concen: 0.134 ppbv  
RT: 3.054 min Scan# 83  
Delta R.T. 0.006 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Tgt Ion: 85 Resp: 16828  
Ion Ratio Lower Upper  
85 100  
87 37.9 26.0 39.0





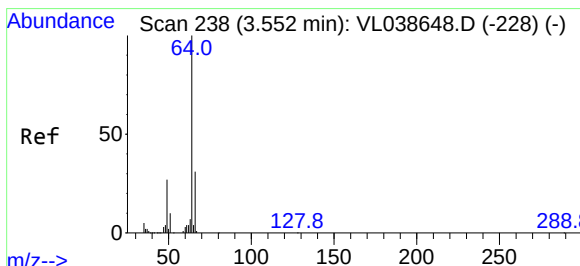
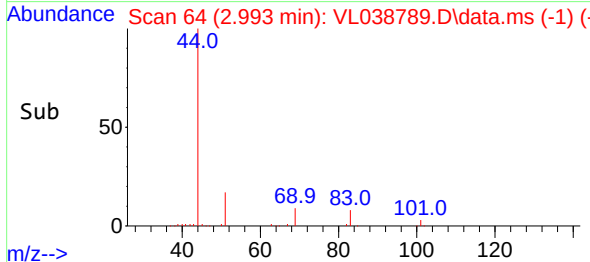
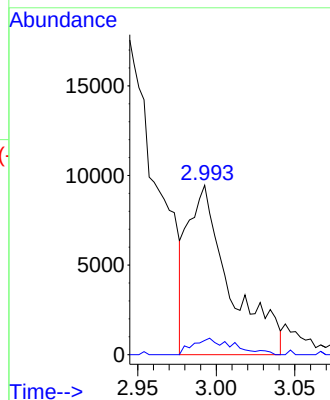
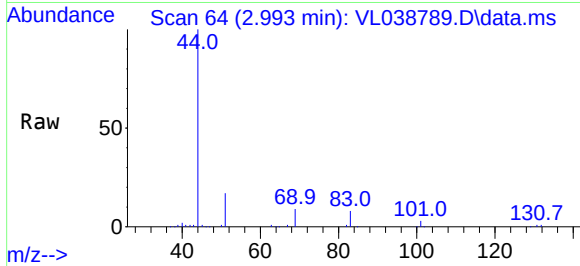
#3  
Chlorodifluoromethane  
Concen: 0.180 ppbv m  
RT: 2.993 min Scan# 64  
Delta R.T. 0.006 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL

Tgt Ion: 51 Resp: 17709  
Ion Ratio Lower Upper  
51 100  
67 19.2 14.1 21.1

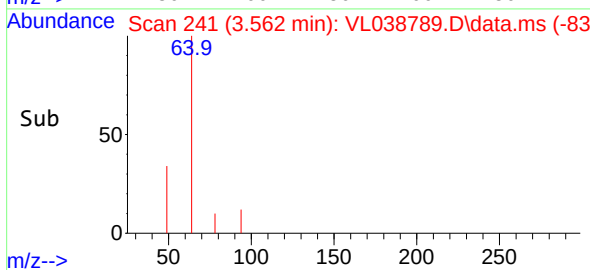
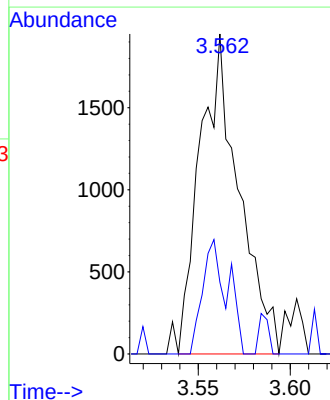
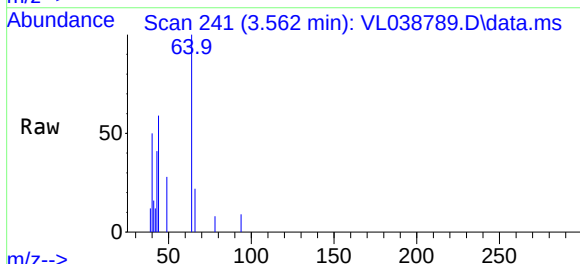
Manual Integrations  
APPROVED

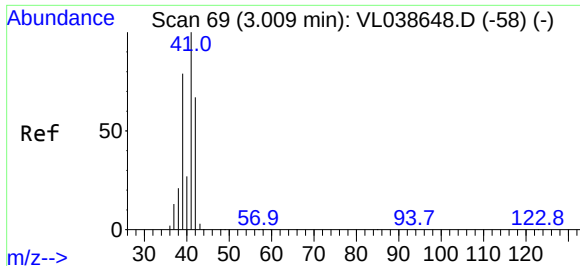
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022



#7  
Chloroethane  
Concen: 0.158 ppbv m  
RT: 3.562 min Scan# 241  
Delta R.T. 0.010 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Tgt Ion: 64 Resp: 2870  
Ion Ratio Lower Upper  
64 100  
66 22.5 25.0 37.6#





#9

Propene

Concen: 4.692 ppbv

RT: 3.028 min Scan# 70

Delta R.T. 0.019 min

Lab File: VL038789.D

Acq: 29 Mar 2022 2:57

Instrument :

MSVOA\_L

ClientSampleId :

SV1DL

Tgt Ion: 41 Resp: 22298

Ion Ratio Lower Upper

41 100

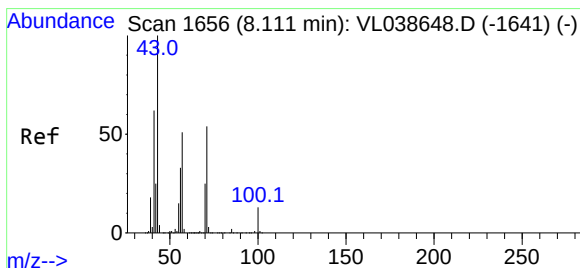
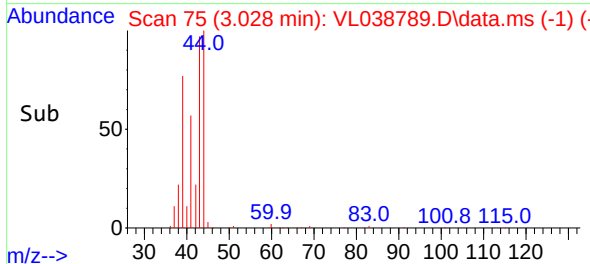
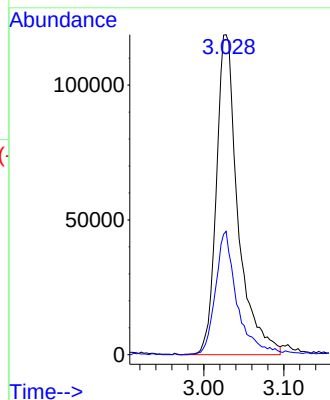
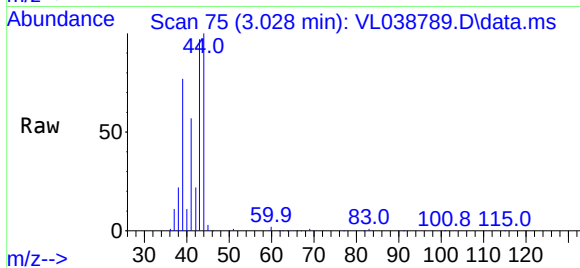
42 39.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022

Supervised By :Mahesh Dadoda 03/29/2022



#10

Heptane

Concen: 1.262 ppbv

RT: 8.111 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VL038789.D

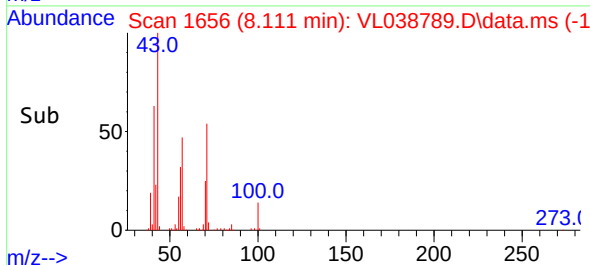
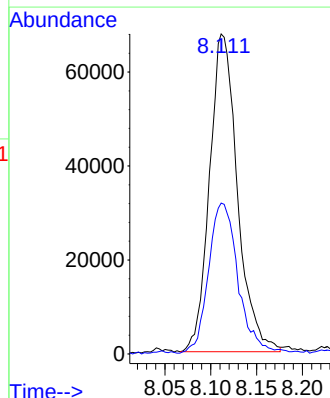
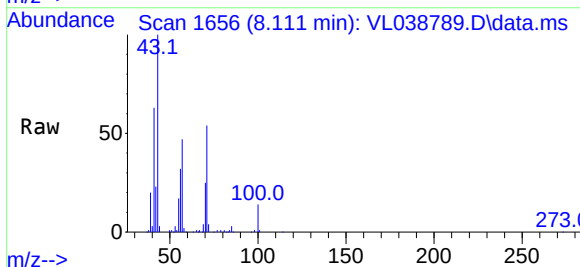
Acq: 29 Mar 2022 2:57

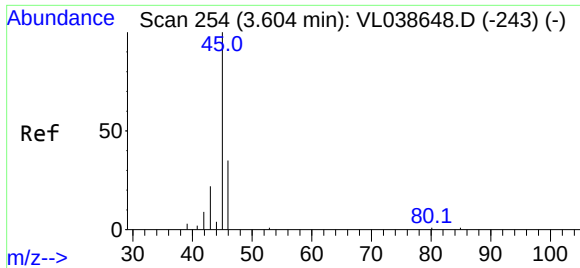
Tgt Ion: 43 Resp: 143393

Ion Ratio Lower Upper

43 100

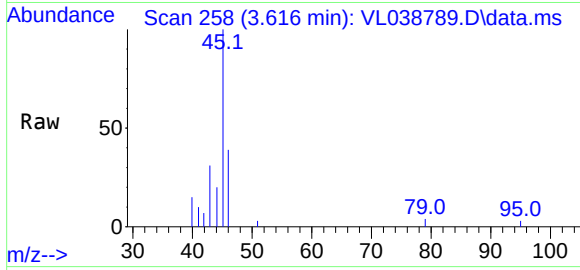
57 50.4 41.4 62.2





#13  
Ethanol  
Concen: 3.032 ppbv m  
RT: 3.616 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

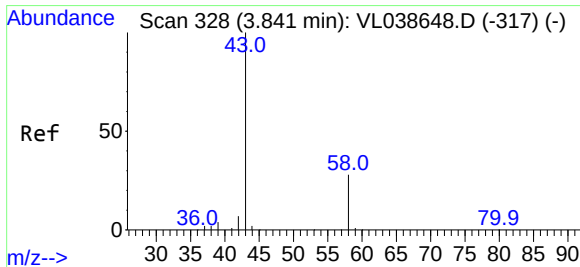
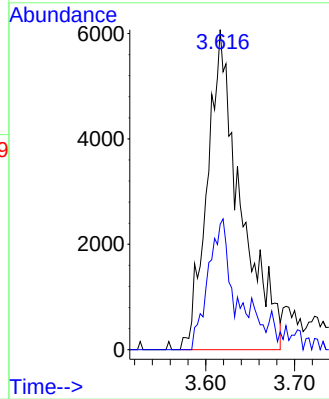
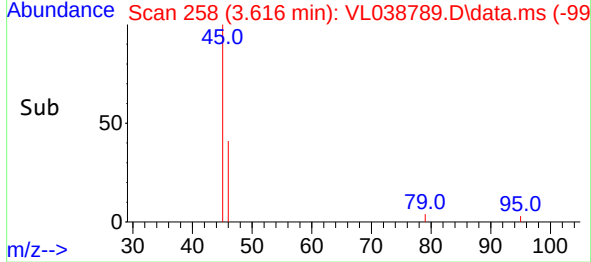
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



Tgt Ion: 45 Resp: 15890  
Ion Ratio Lower Upper  
45 100  
46 0.0 15.1 60.5

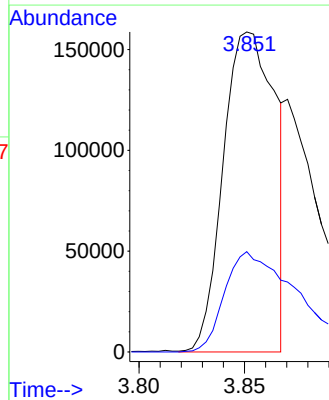
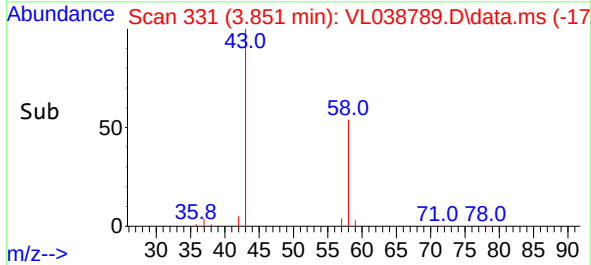
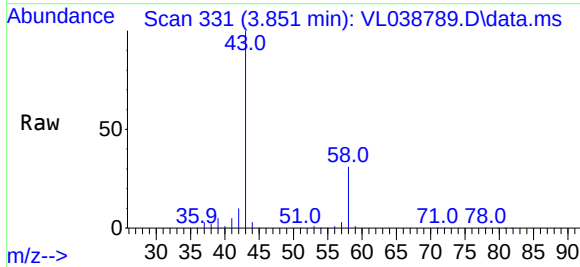
Manual Integrations  
APPROVED

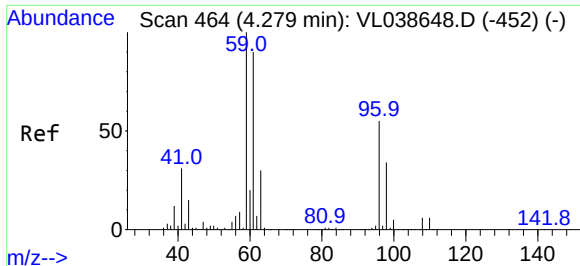
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022



#15  
Acetone  
Concen: 3.362 ppbv m  
RT: 3.851 min Scan# 331  
Delta R.T. 0.010 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Tgt Ion: 43 Resp: 270358  
Ion Ratio Lower Upper  
43 100  
58 50.9 23.3 34.9





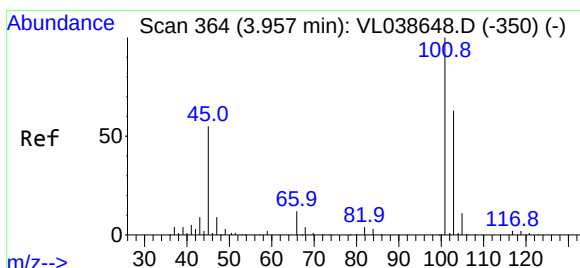
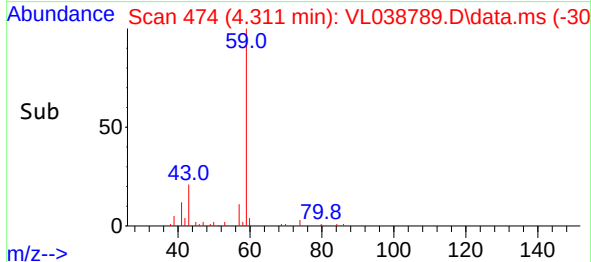
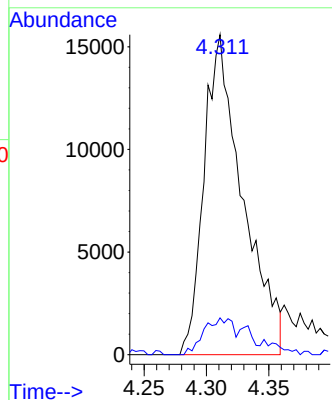
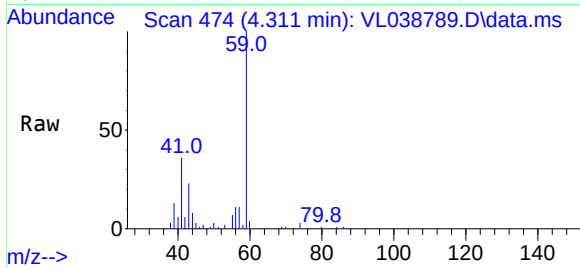
#17  
tert-Butyl alcohol  
Concen: 0.480 ppbv  
RT: 4.311 min Scan# 41  
Delta R.T. 0.032 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL

Tgt Ion: 59 Resp: 3371  
Ion Ratio Lower Upper  
59 100  
57 14.1 8.2 12.2

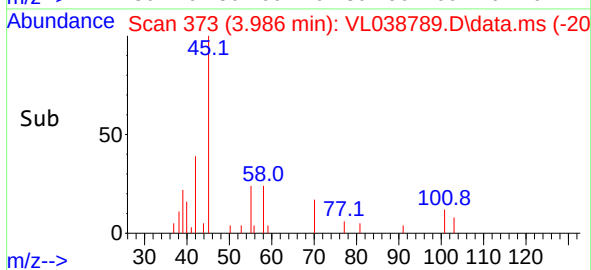
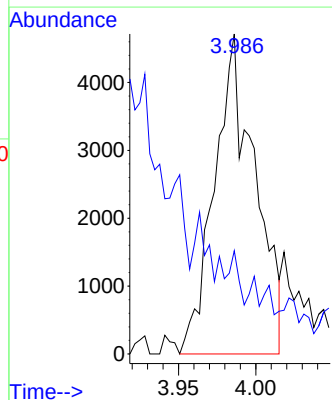
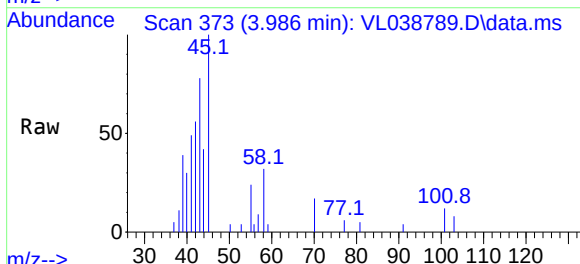
Manual Integrations  
APPROVED

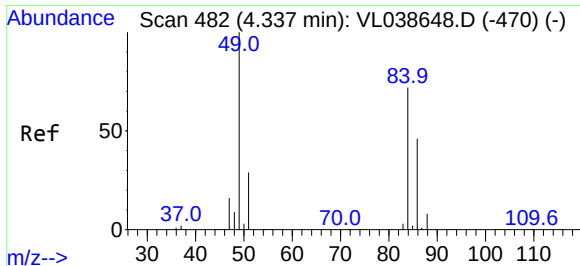
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022



#19  
Isopropyl Alcohol  
Concen: 0.193 ppbv m  
RT: 3.986 min Scan# 373  
Delta R.T. 0.029 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Tgt Ion: 45 Resp: 8597  
Ion Ratio Lower Upper  
45 100  
58 0.0 2.3 3.5





#20

Methylene Chloride

Concen: 1.023 ppbv

RT: 4.343 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL038789.D

Acq: 29 Mar 2022 2:57

Instrument :

MSVOA\_L

ClientSampleId :

SV1DL

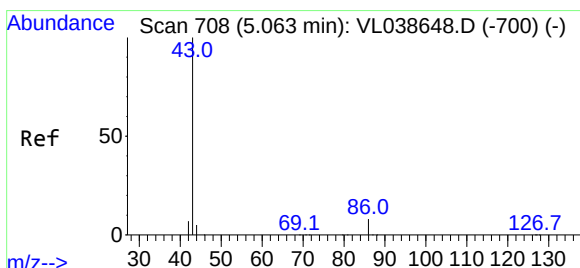
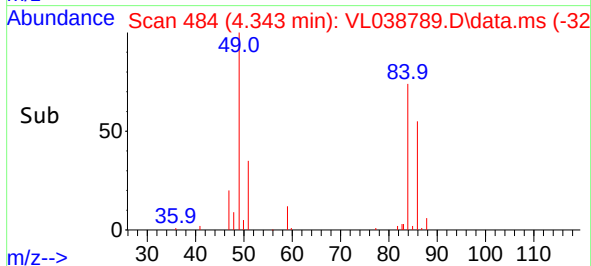
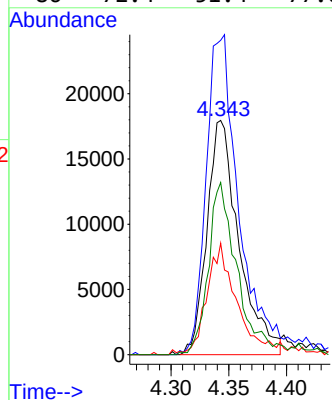
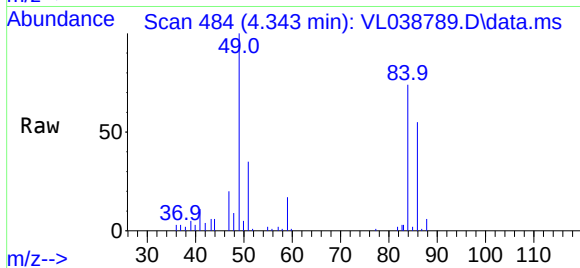
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3464  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 132.5 | 111.2 | 166.8 |
| 51       | 47.5  | 32.8  | 49.2  |
| 86       | 72.4  | 51.4  | 77.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022

Supervised By :Mahesh Dadoda 03/29/2022



#23

Vinyl Acetate

Concen: 4.685 ppbv

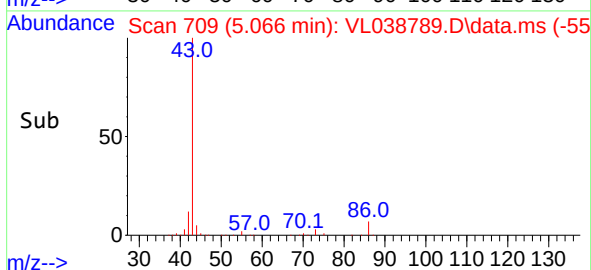
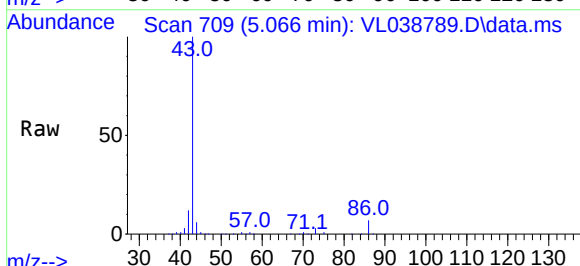
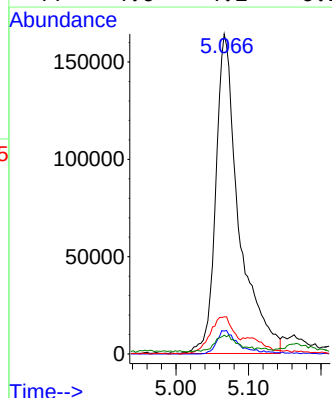
RT: 5.066 min Scan# 709

Delta R.T. 0.003 min

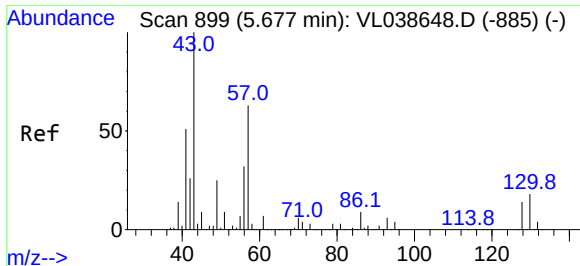
Lab File: VL038789.D

Acq: 29 Mar 2022 2:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 364882 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 7.2   | 5.6   | 8.4    |
| 42       | 11.5  | 6.8   | 10.2#  |
| 44       | 4.6   | 4.2   | 6.2    |

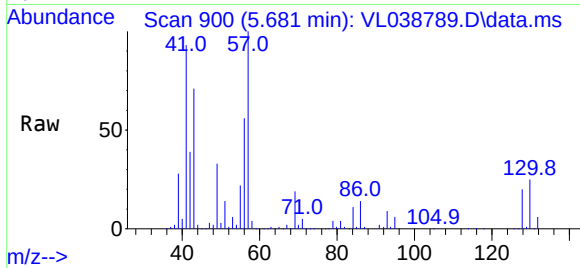






#26  
Hexane  
Concen: 10.762 ppbv  
RT: 5.681 min Scan# 90  
Delta R.T. 0.003 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

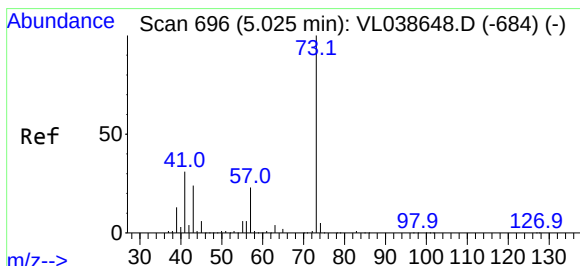
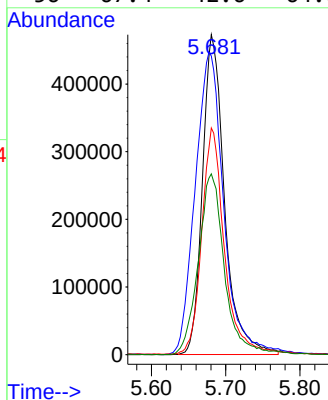
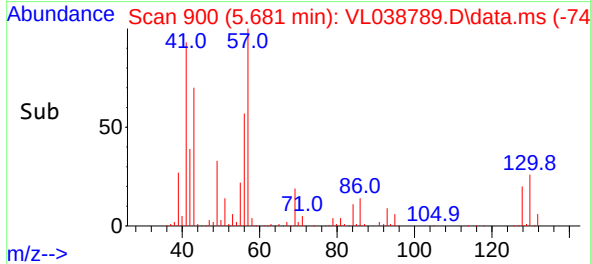
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



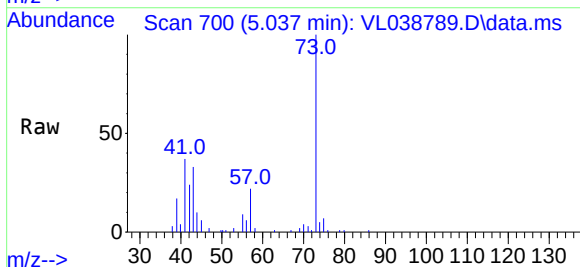
Tgt Ion: 57 Resp: 975429  
Ion Ratio Lower Upper  
57 100  
41 122.9 67.0 100.4  
43 73.3 184.2 276.2  
56 67.4 42.6 64.0

Manual Integrations  
APPROVED

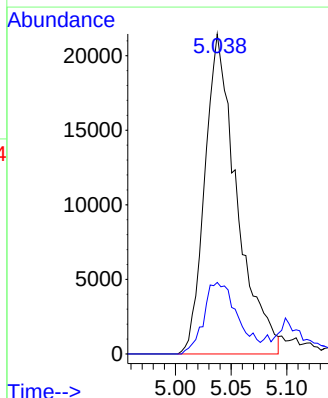
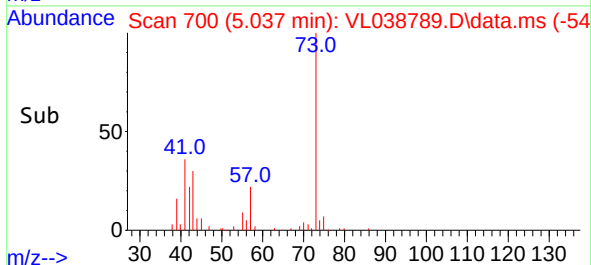
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022

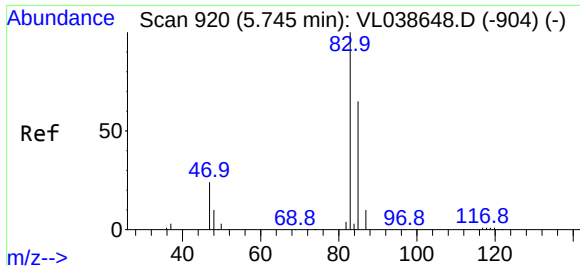


#28  
Methyl tert-Butyl Ether  
Concen: 0.635 ppbv  
RT: 5.037 min Scan# 700  
Delta R.T. 0.013 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57



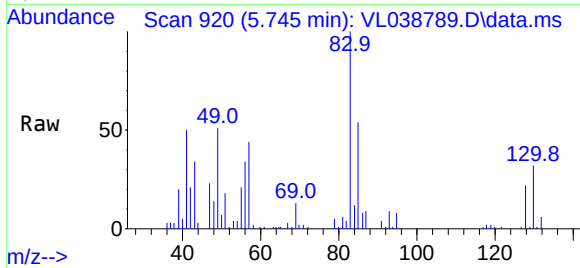
Tgt Ion: 73 Resp: 42873  
Ion Ratio Lower Upper  
73 100  
57 23.4 19.2 28.8





#29  
Chloroform  
Concen: 0.379 ppbv  
RT: 5.745 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

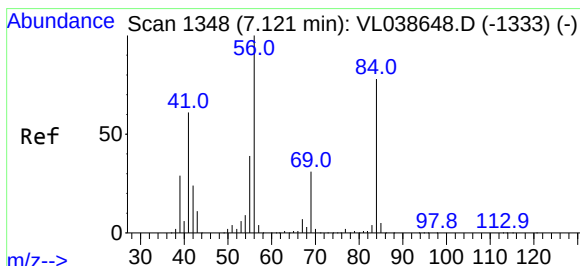
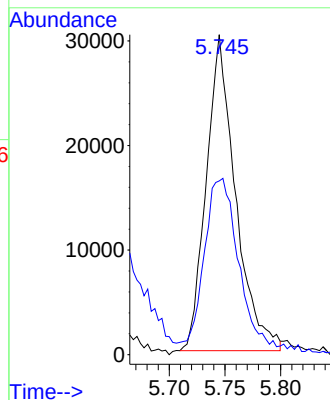
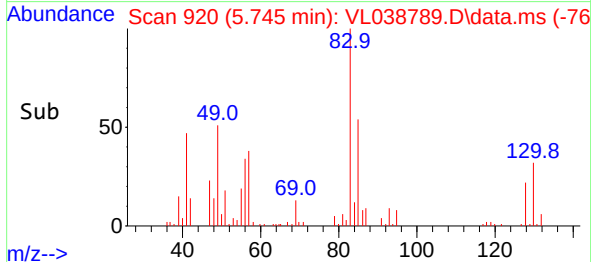
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



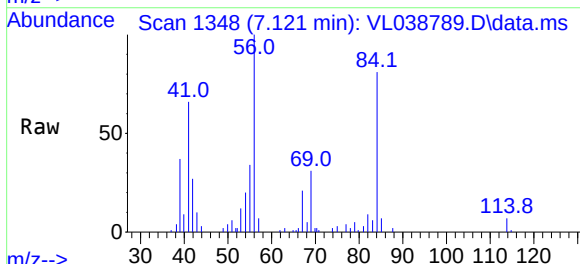
Tgt Ion: 83 Resp: 5506  
Ion Ratio Lower Upper  
83 100  
85 52.2 51.7 77.5

Manual Integrations  
APPROVED

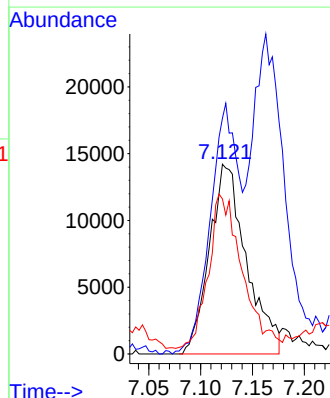
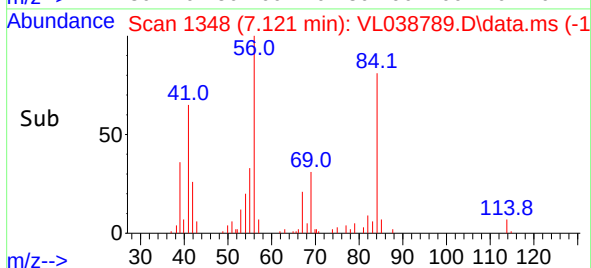
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022

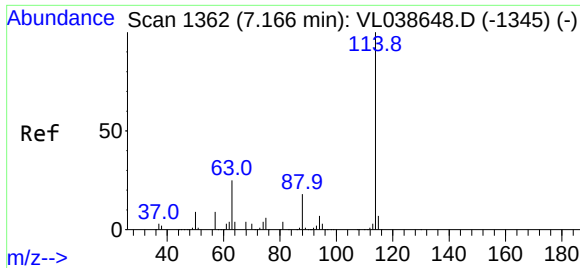


#30  
Cyclohexane  
Concen: 0.448 ppbv m  
RT: 7.121 min Scan# 1348  
Delta R.T. -0.000 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57



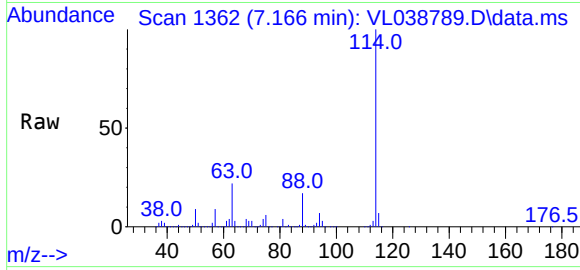
Tgt Ion: 84 Resp: 35325  
Ion Ratio Lower Upper  
84 100  
56 100.6 108.2 162.4#  
41 81.3 61.8 92.6





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.166 min Scan# 114  
Delta R.T. -0.000 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

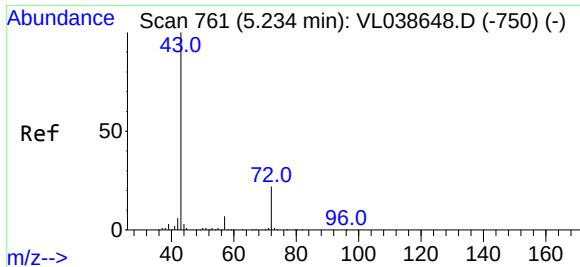
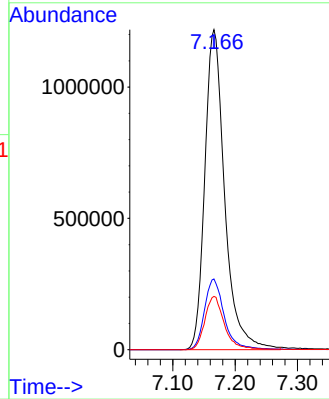
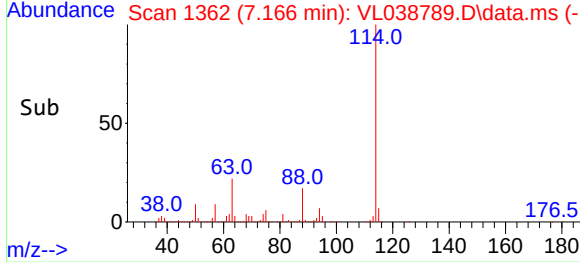
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



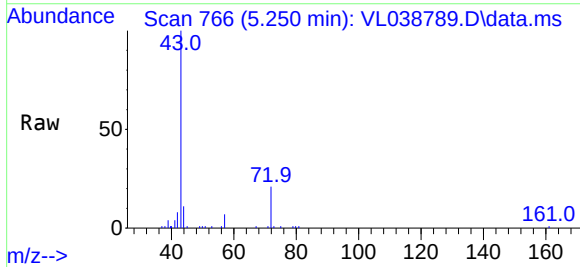
Tgt Ion: 114 Resp: 269918  
Ion Ratio Lower Upper  
114 100  
63 22.2 19.4 29.0  
88 16.6 13.9 20.9

Manual Integrations  
APPROVED

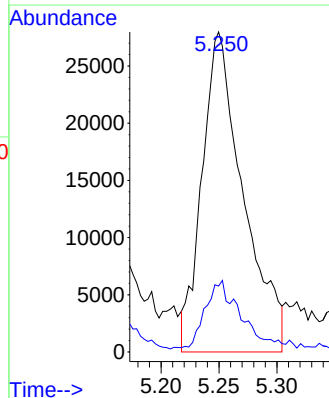
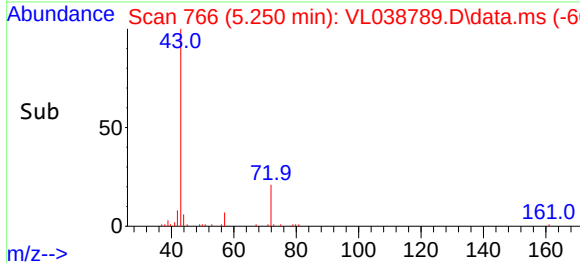
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022

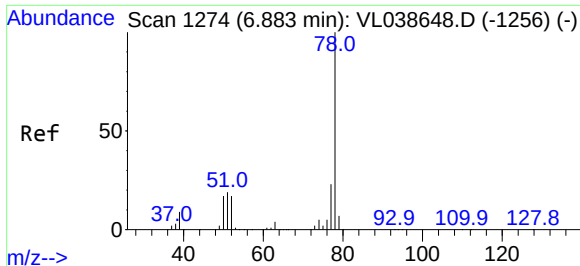


#34  
2-Butanone  
Concen: 0.648 ppbv m  
RT: 5.250 min Scan# 766  
Delta R.T. 0.016 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57



Tgt Ion: 43 Resp: 69263  
Ion Ratio Lower Upper  
43 100  
72 22.1 17.8 26.8





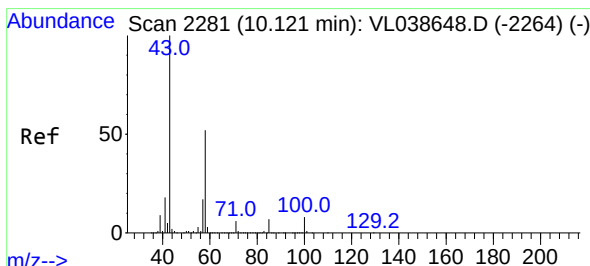
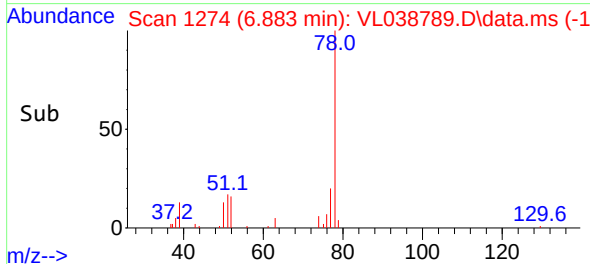
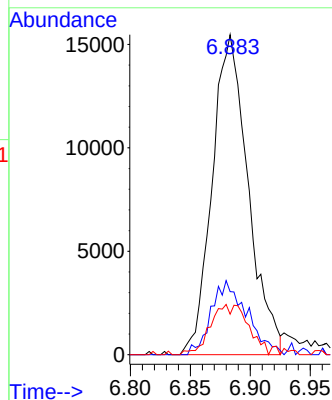
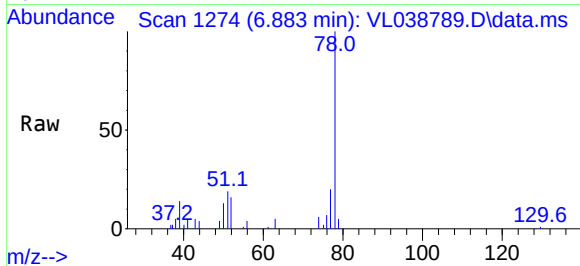
#36  
Benzene  
Concen: 0.155 ppbv  
RT: 6.883 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL

Tgt Ion: 78 Resp: 3223  
Ion Ratio Lower Upper  
78 100  
77 19.7 18.1 27.1  
50 12.7 13.6 20.4

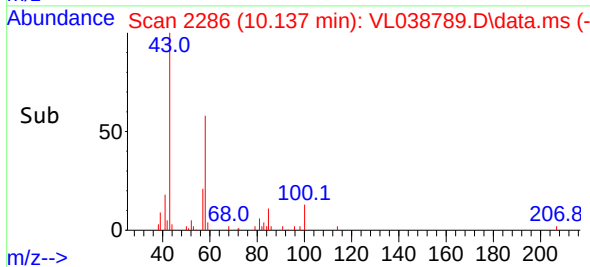
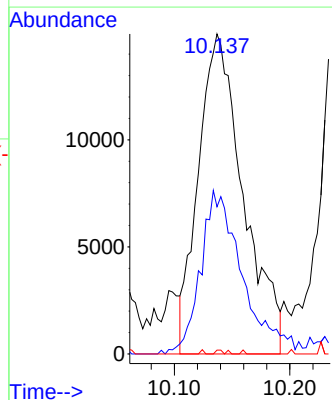
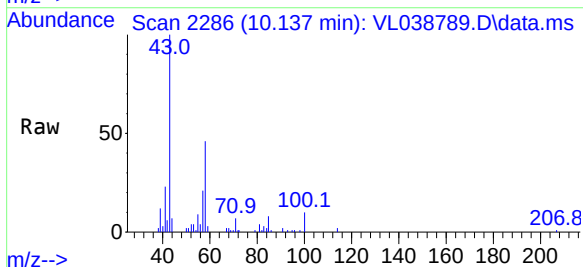
Manual Integrations  
APPROVED

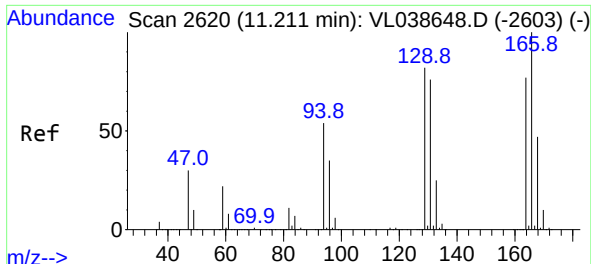
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022



#51  
2-Hexanone  
Concen: 0.284 ppbv m  
RT: 10.137 min Scan# 2286  
Delta R.T. 0.016 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

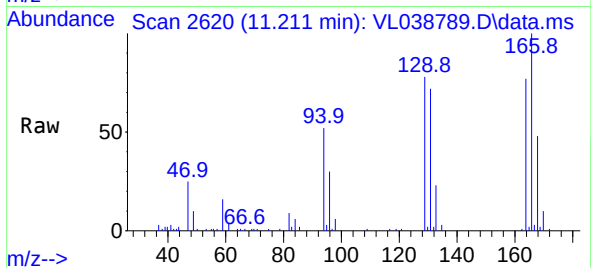
Tgt Ion: 43 Resp: 40451  
Ion Ratio Lower Upper  
43 100  
58 47.4 41.2 61.8  
98 0.4 0.2 0.4





#52  
Tetrachloroethene  
Concen: 0.572 ppbv  
RT: 11.211 min Scan# 2179  
Delta R.T. -0.000 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

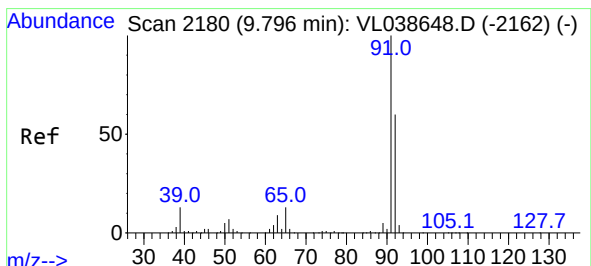
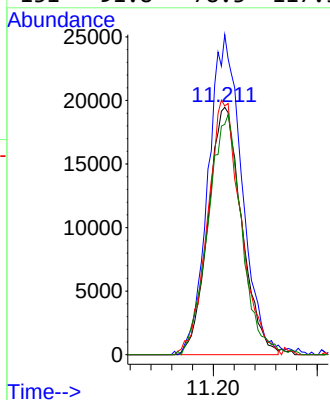
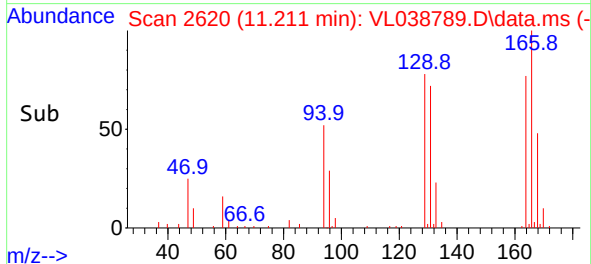
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



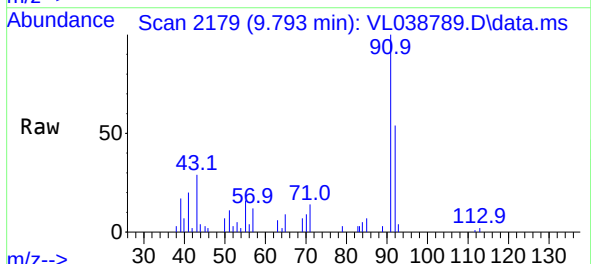
Tgt Ion:164 Resp: 43634  
Ion Ratio Lower Upper  
164 100  
166 129.3 103.3 154.9  
129 99.1 85.2 127.8  
131 91.8 78.3 117.5

Manual Integrations  
APPROVED

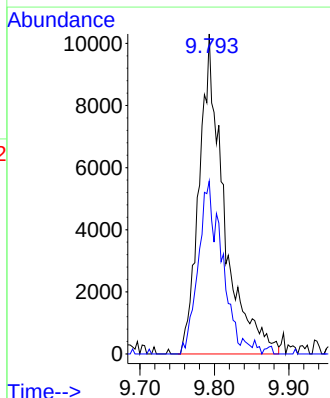
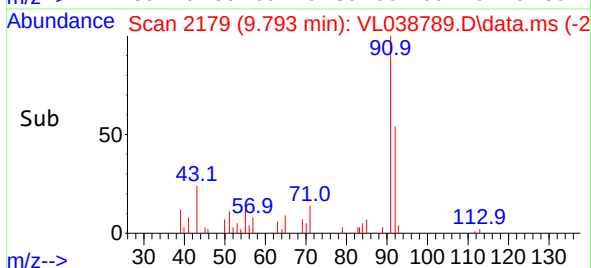
Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022

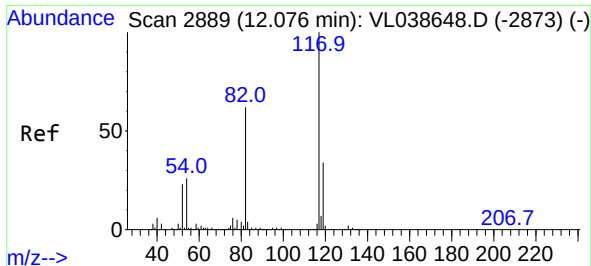


#53  
Toluene  
Concen: 0.107 ppbv m  
RT: 9.793 min Scan# 2179  
Delta R.T. -0.003 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57



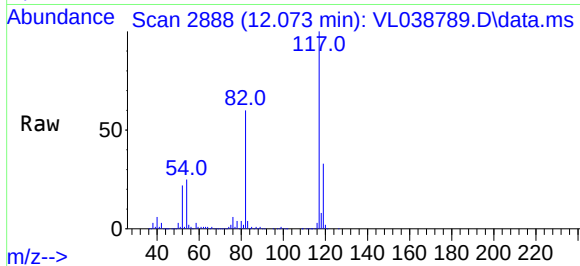
Tgt Ion: 91 Resp: 23902  
Ion Ratio Lower Upper  
91 100  
92 53.2 48.7 73.1





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.073 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57

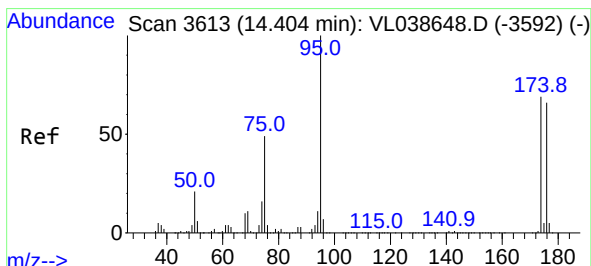
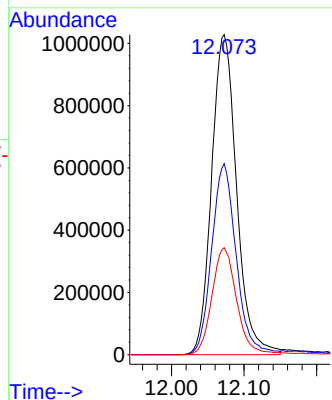
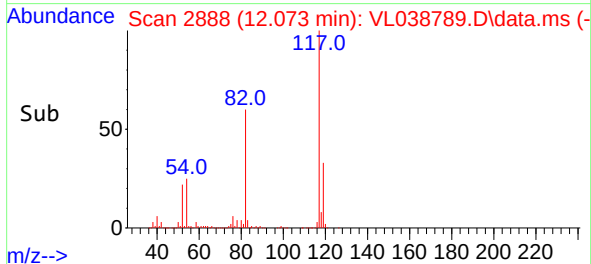
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL



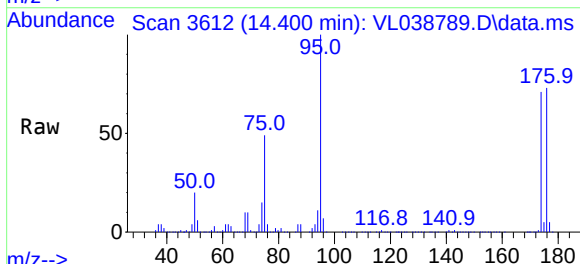
Tgt Ion: 117 Resp: 246452  
Ion Ratio Lower Upper  
117 100  
82 60.9 51.6 77.4  
119 33.9 26.9 40.3

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022  
Supervised By :Mahesh Dadoda 03/29/2022



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.533 ppbv  
RT: 14.400 min Scan# 3612  
Delta R.T. -0.003 min  
Lab File: VL038789.D  
Acq: 29 Mar 2022 2:57



Tgt Ion: 95 Resp: 1801198  
Ion Ratio Lower Upper  
95 100  
174 76.6 56.1 84.1  
175 5.5 4.2 6.2

