

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021422\  
 Data File : VL038347.D  
 Acq On : 14 Feb 2022 19:26  
 Operator : SY/AP  
 Sample : N1442-02 40X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1DL

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/15/2022  
 Supervised By : Mahesh Dadoda 02/18/2022

Quant Time: Feb 15 00:41:47 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012422AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Jan 24 2022

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Bromochloromethane       | 5.645  | 49    | 765530   | 10.000   | ppbv       | -0.03    |
| 33) 1,4-Difluorobenzene     | 7.147  | 114   | 1979487  | 10.000   | ppbv       | -0.03    |
| 55) Chlorobenzene-d5        | 12.057 | 117   | 1664913  | 10.000   | ppbv       | #-0.03   |
| System Monitoring Compounds |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 14.384 | 95    | 1335195  | 10.566   | ppbv       | -0.03    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 105.700% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 3) Chlorodifluoromethane    | 2.980  | 51    | 459707   | 3.016    | ppbv       | 98       |
| 9) Propene                  | 3.015  | 41    | 9641m    | 0.194    | ppbv       |          |
| 13) Ethanol                 | 3.610  | 45    | 59272    | 11.129   | ppbv       | 92       |
| 15) Acetone                 | 3.857  | 43    | 37654m   | 0.558    | ppbv       |          |
| 19) Isopropyl Alcohol       | 3.967  | 45    | 47755m   | 1.131    | ppbv       |          |
| 20) Methylene Chloride      | 4.324  | 84    | 9892m    | 0.252    | ppbv       |          |
| 25) Ethyl Acetate           | 5.677  | 43    | 24112m   | 0.128    | ppbv       |          |
| 52) Tetrachloroethene       | 11.192 | 164   | 11137m   | 0.185    | ppbv       |          |
| -----                       |        |       |          |          |            |          |

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

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IA1DL

Manual Integrations  
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Supervised By :Mahesh Dadoda 02/18/2022

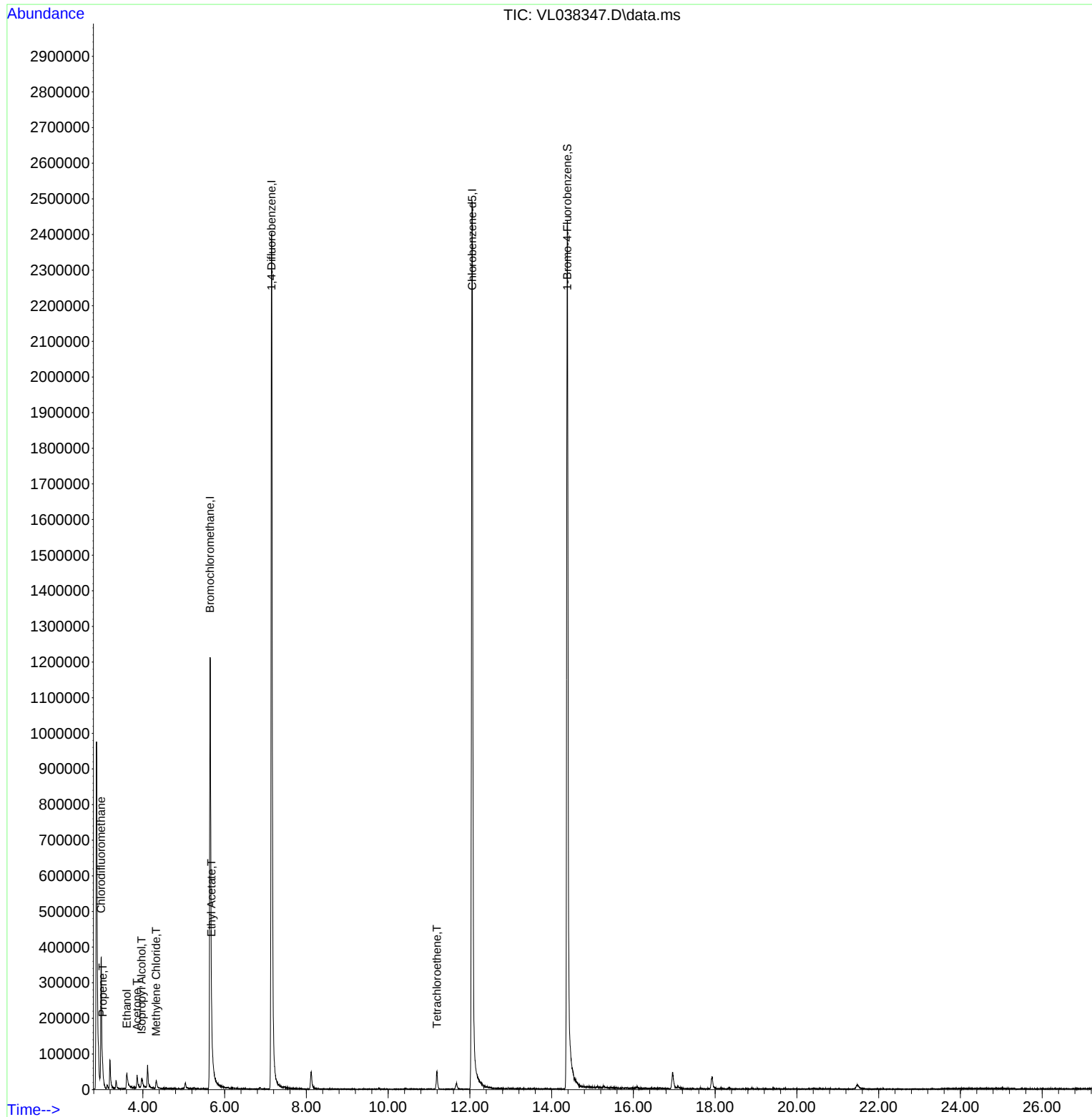
Quant Time: Feb 15 00:41:47 2022

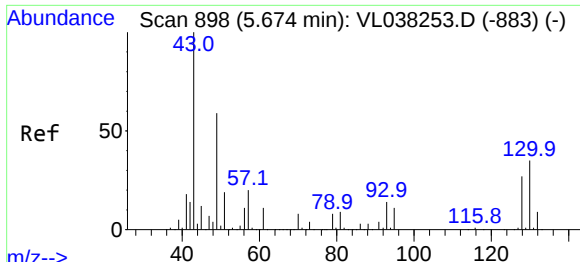
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012422AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan

QLast Update : Mon Jan 24 14:12:48 2022

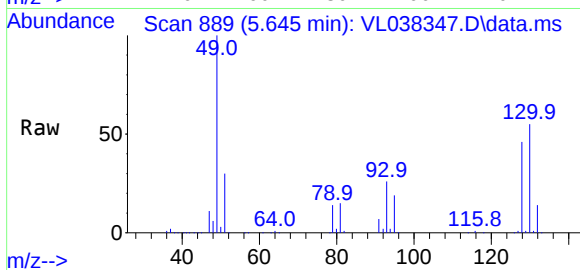
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.645 min Scan# 81  
Delta R.T. -0.029 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

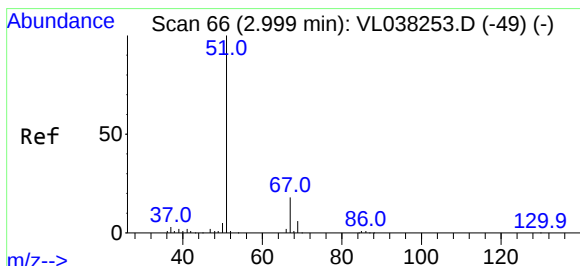
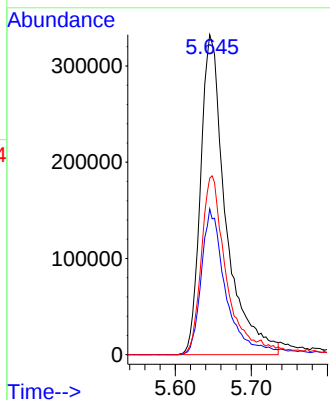
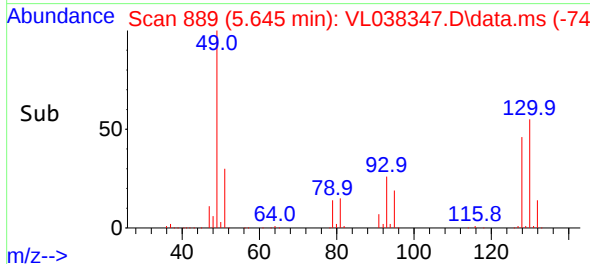
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DL



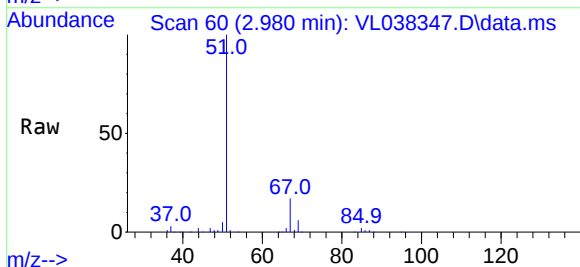
Tgt Ion: 49 Resp: 765530  
Ion Ratio Lower Upper  
49 100  
128 46.8 24.5 73.5  
130 59.3 30.1 90.5

Manual Integrations  
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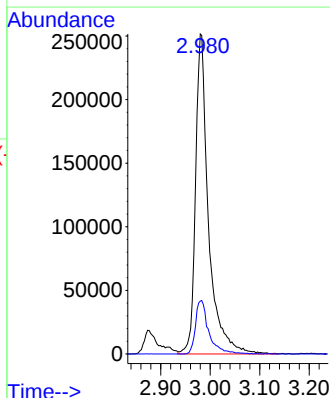
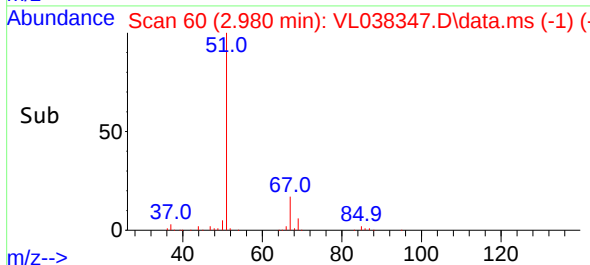
Reviewed By :Semsettin Yesilyurt 02/15/2022  
Supervised By :Mahesh Dadoda 02/18/2022

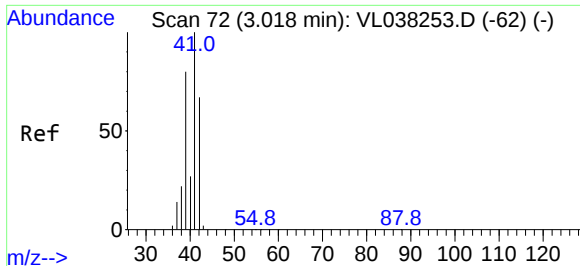


#3  
Chlorodifluoromethane  
Concen: 3.016 ppbv  
RT: 2.980 min Scan# 60  
Delta R.T. -0.019 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26



Tgt Ion: 51 Resp: 459707  
Ion Ratio Lower Upper  
51 100  
67 17.2 14.4 21.6





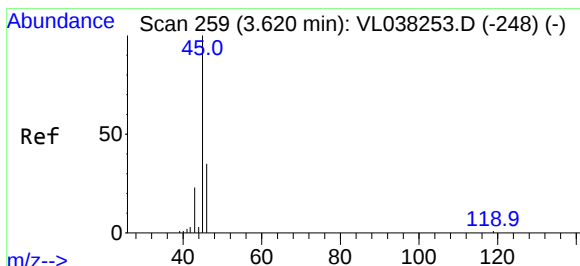
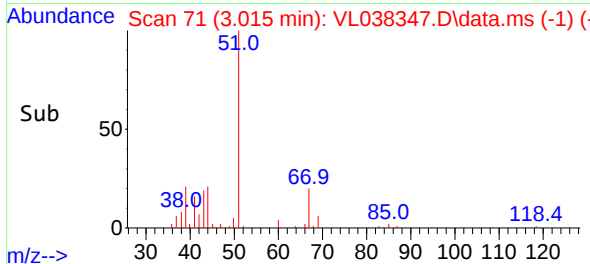
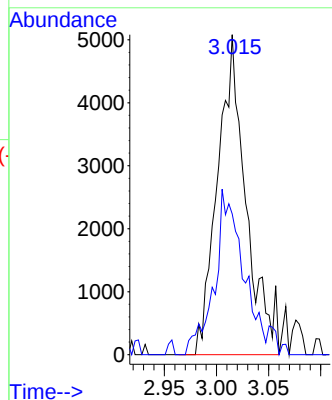
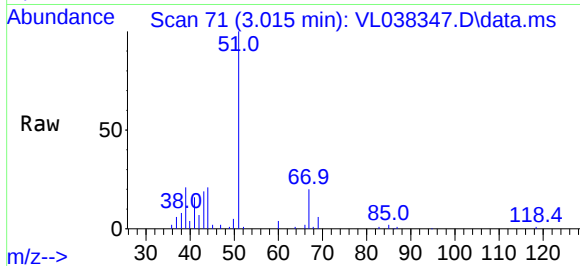
#9  
Propene  
Concen: 0.194 ppbv m  
RT: 3.015 min Scan# 71  
Delta R.T. -0.003 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DL

Tgt Ion: 41 Resp: 964  
Ion Ratio Lower Upper  
41 100  
42 223.1 54.9 82.3

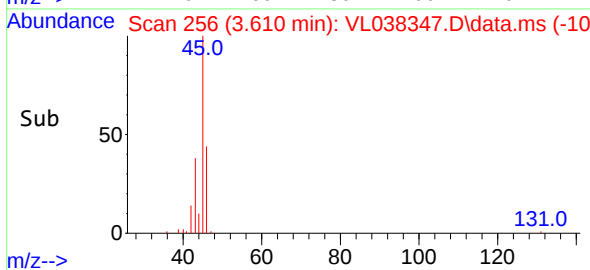
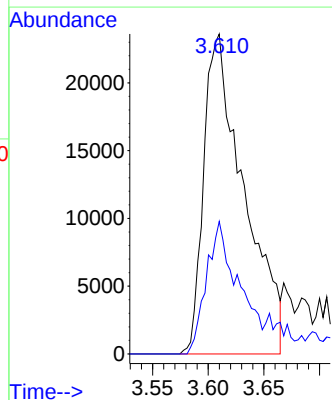
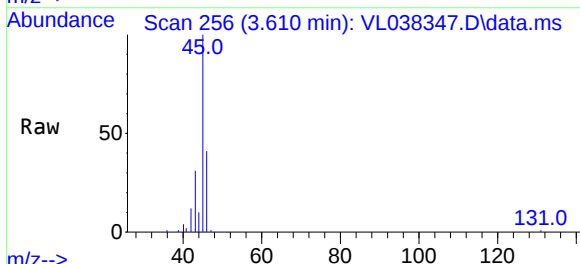
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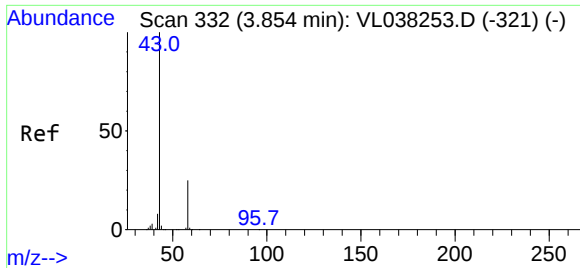
Reviewed By :Semsettin Yesilyurt 02/15/2022  
Supervised By :Mahesh Dadoda 02/18/2022



#13  
Ethanol  
Concen: 11.129 ppbv  
RT: 3.610 min Scan# 256  
Delta R.T. -0.010 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

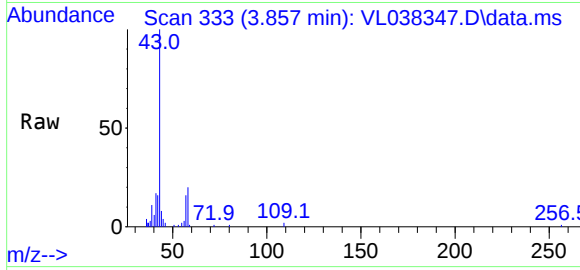
Tgt Ion: 45 Resp: 59272  
Ion Ratio Lower Upper  
45 100  
46 43.2 15.4 61.6





#15  
Acetone  
Concen: 0.558 ppbv m  
RT: 3.857 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

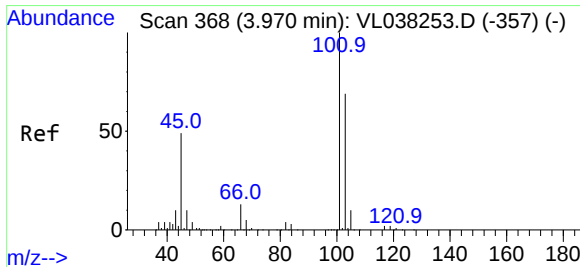
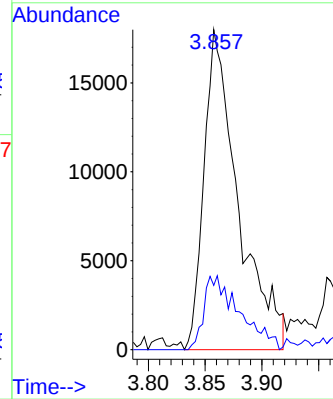
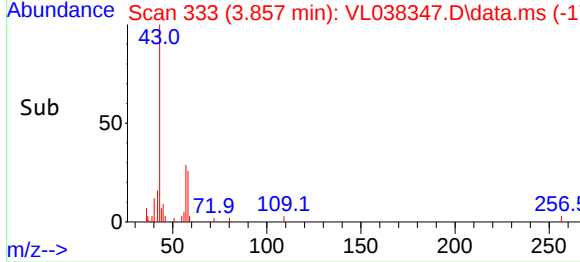
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DL



Tgt Ion: 43 Resp: 37654  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.5 32.3

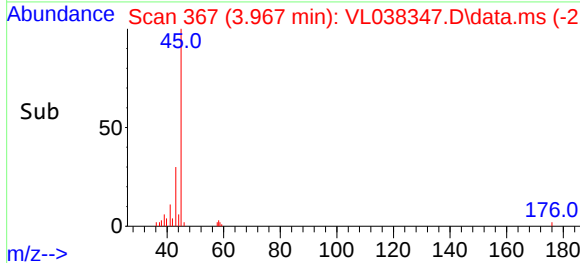
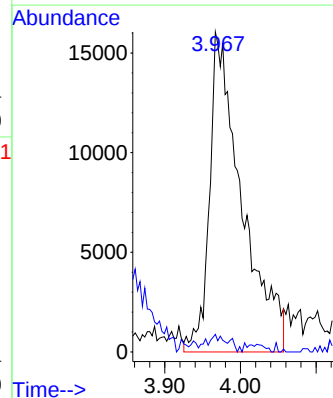
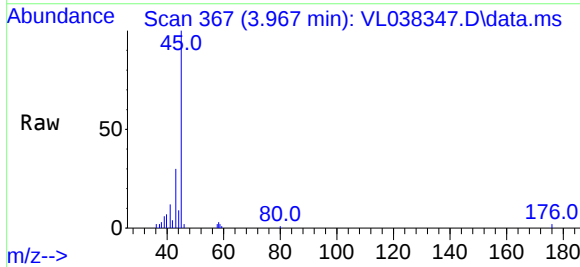
Manual Integrations  
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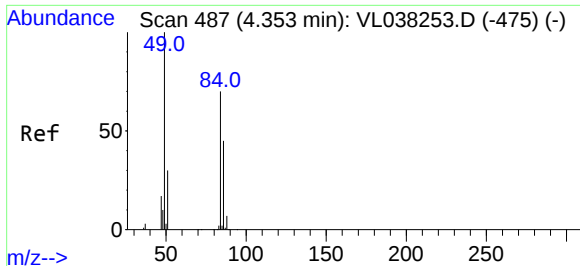
Reviewed By :Semsettin Yesilyurt 02/15/2022  
Supervised By :Mahesh Dadoda 02/18/2022



#19  
Isopropyl Alcohol  
Concen: 1.131 ppbv m  
RT: 3.967 min Scan# 367  
Delta R.T. -0.003 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

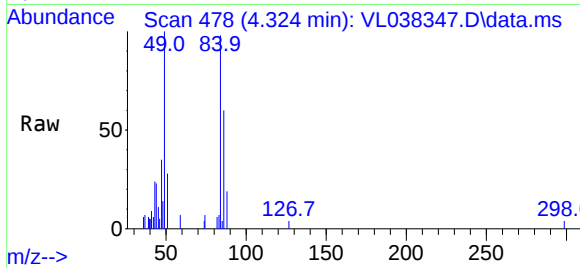
Tgt Ion: 45 Resp: 47755  
Ion Ratio Lower Upper  
45 100  
58 4.9 2.3 3.5





#20  
Methylene Chloride  
Concen: 0.252 ppbv m  
RT: 4.324 min Scan# 41  
Delta R.T. -0.029 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

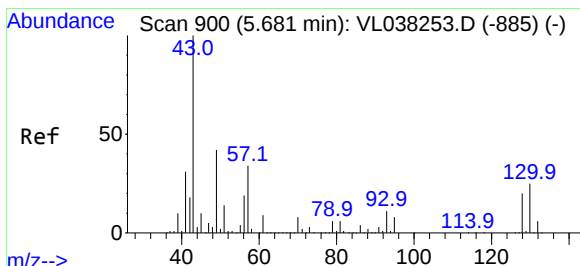
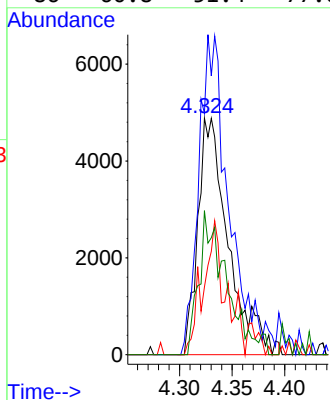
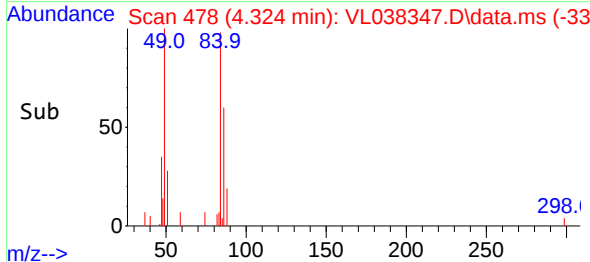
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DL



Tgt Ion: 84 Resp: 9892  
Ion Ratio Lower Upper  
84 100  
49 102.0 115.0 172.6#  
51 28.6 35.0 52.6#  
86 60.8 51.4 77.0#

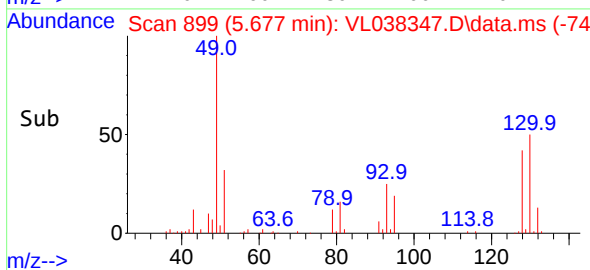
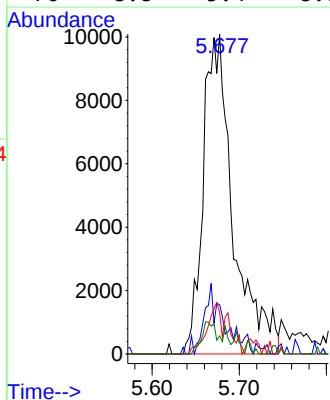
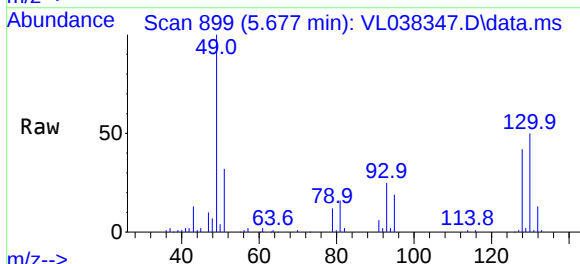
Manual Integrations  
APPROVED

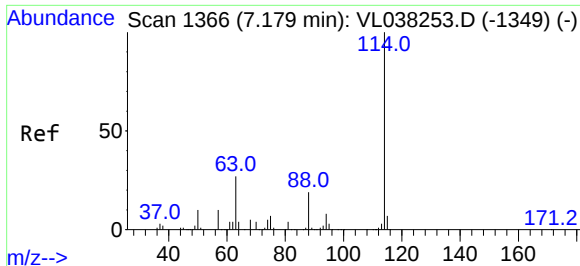
Reviewed By :Semsettin Yesilyurt 02/15/2022  
Supervised By :Mahesh Dadoda 02/18/2022



#25  
Ethyl Acetate  
Concen: 0.128 ppbv m  
RT: 5.677 min Scan# 899  
Delta R.T. -0.003 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

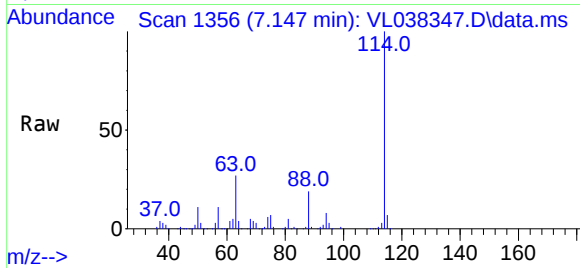
Tgt Ion: 43 Resp: 24112  
Ion Ratio Lower Upper  
43 100  
45 0.0 7.9 11.9#  
61 0.0 7.8 11.8#  
70 8.8 5.4 8.0#





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.147 min Scan# 11  
Delta R.T. -0.032 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

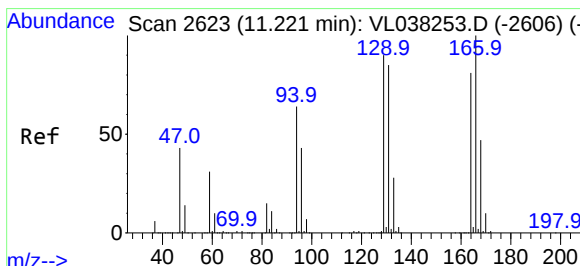
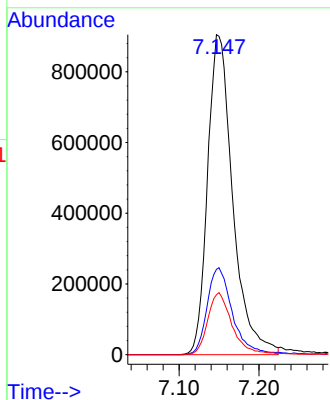
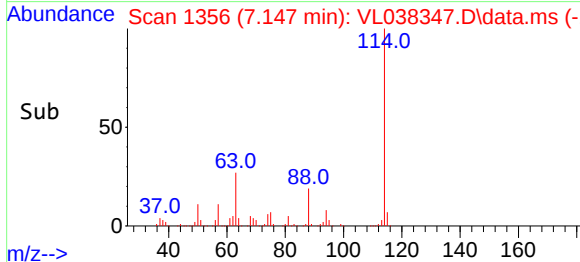
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DL



Tgt Ion:114 Resp: 197948  
Ion Ratio Lower Upper  
114 100  
63 28.2 22.0 33.0  
88 19.2 15.0 22.6

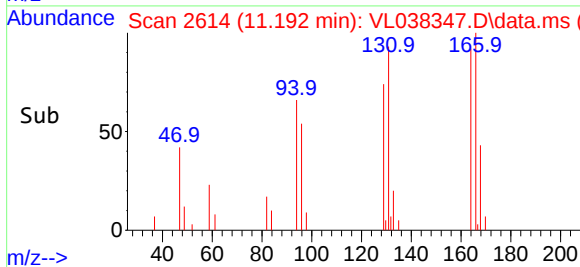
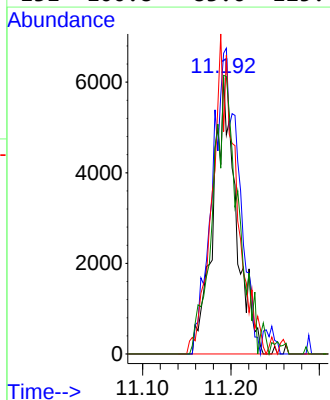
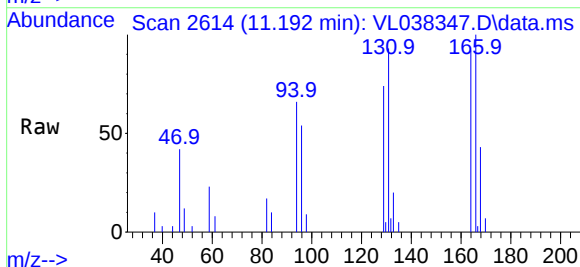
Manual Integrations  
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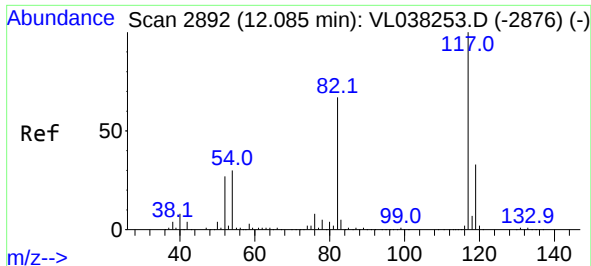
Reviewed By :Semsettin Yesilyurt 02/15/2022  
Supervised By :Mahesh Dadoda 02/18/2022



#52  
Tetrachloroethene  
Concen: 0.185 ppbv m  
RT: 11.192 min Scan# 2614  
Delta R.T. -0.029 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

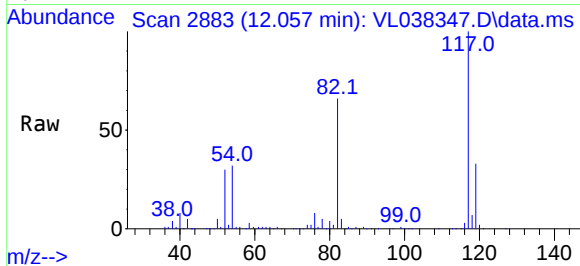
Tgt Ion:164 Resp: 11137  
Ion Ratio Lower Upper  
164 100  
166 108.8 98.8 148.2  
129 80.5 89.2 133.8#  
131 100.8 83.6 125.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.057 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26

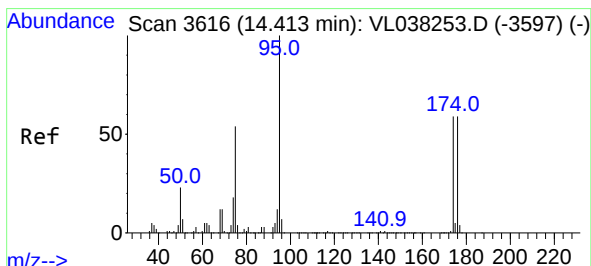
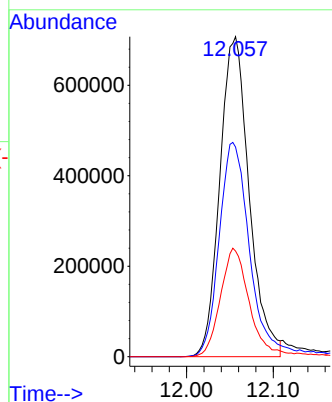
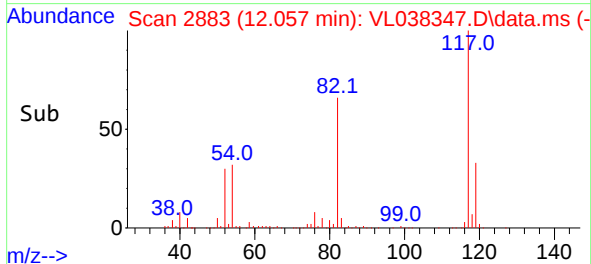
Instrument :  
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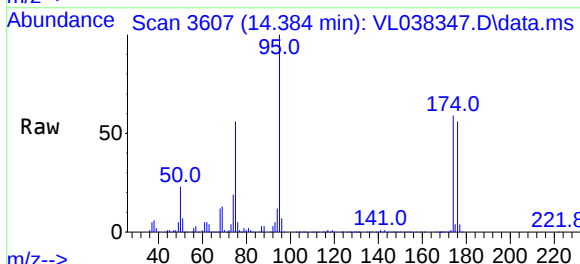
Tgt Ion: 117 Resp: 166491  
Ion Ratio Lower Upper  
117 100  
82 73.0 54.4 81.6  
119 34.8 45.9 68.9

Manual Integrations  
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.566 ppbv  
RT: 14.384 min Scan# 3607  
Delta R.T. -0.029 min  
Lab File: VL038347.D  
Acq: 14 Feb 2022 19:26



Tgt Ion: 95 Resp: 1335195  
Ion Ratio Lower Upper  
95 100  
174 61.4 48.3 72.5  
175 4.3 3.5 5.3

