

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041122\  
 Data File : VL038878.D  
 Acq On : 11 Apr 2022 20:19  
 Operator : SY/AP  
 Sample : N2332-02DL 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/13/2022  
 Supervised By :Mahesh Dadoda 04/14/2022

Quant Time: Apr 12 02:52:31 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Bromochloromethane       | 5.665     | 49    | 1167020  | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     | 7.173     | 114   | 3212087  | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        | 12.076    | 117   | 2928750  | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |           |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 14.404    | 95    | 2228314  | 10.030   | ppbv       | 0.00     |
| Spiked Amount               | 10.000    | Range | 65 - 135 | Recovery | = 100.300% |          |
| Target Compounds            |           |       |          |          |            |          |
|                             |           |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane  | 3.054     | 85    | 21438    | 0.130    | ppbv       | 89       |
| 3) Chlorodifluoromethane    | 2.993     | 51    | 15878    | 0.111    | ppbv #     | 89       |
| 4) Chloromethane            | 3.140     | 50    | 13697m   | 0.186    | ppbv       |          |
| 9) Propene                  | 3.022     | 41    | 59088    | 0.784    | ppbv #     | 80       |
| 10) Heptane                 | 8.115     | 43    | 2932397  | 15.449   | ppbv       | 99       |
| 13) Ethanol                 | 3.604     | 45    | 86542m   | 18.898   | ppbv       |          |
| 15) Acetone                 | 3.841     | 43    | 11789888 | 101.473  | ppbv       | 94       |
| 20) Methylene Chloride      | 4.343     | 84    | 24483m   | 0.581    | ppbv       |          |
| 25) Ethyl Acetate           | 5.665     | 43    | 4021035  | 13.639   | ppbv #     | 89       |
| 34) 2-Butanone              | 5.250     | 43    | 74629m   | 0.588    | ppbv       |          |
| 36) Benzene                 | 6.880     | 78    | 34916m   | 0.119    | ppbv       |          |
| 44) 2,2,4-Trimethylpentane  | 7.864     | 57    | 63599    | 0.129    | ppbv #     | 1        |
| 52) Tetrachloroethene       | 11.208    | 164   | 15370m   | 0.151    | ppbv       |          |
| 53) Toluene                 | 9.799     | 91    | 13154167 | 38.996   | ppbv       | 92       |
| 58) Ethyl Benzene           | 12.696    | 91    | 55581    | 0.127    | ppbv       | 98       |
| 59) m/p-Xylene              | 12.954    | 91    | 155641m  | 0.423    | ppbv       |          |
| 60) o-Xylene                | 13.680    | 91    | 58447m   | 0.170    | ppbv       |          |
| 74) 1,2,4-Trimethylbenzene  | 16.751    | 105   | 44866m   | 0.115    | ppbv       |          |
| -----                       |           |       |          |          |            |          |

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

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Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022

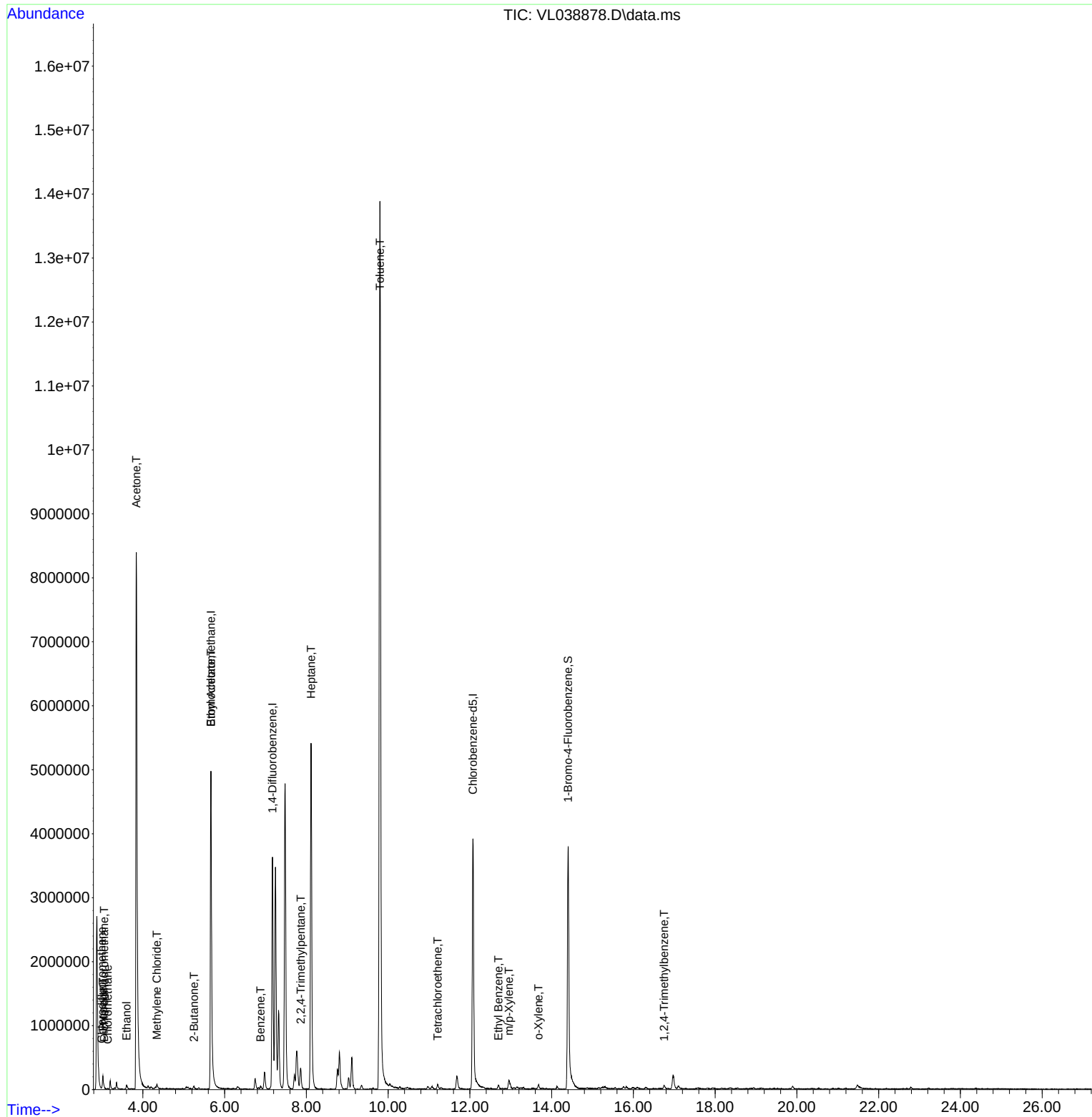
Quant Time: Apr 12 02:52:31 2022

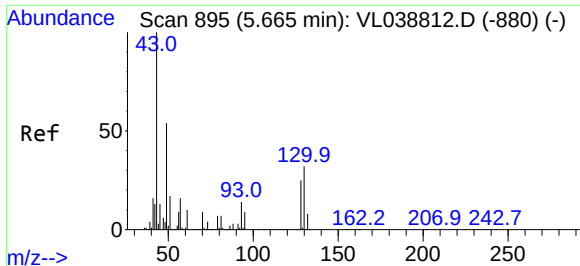
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL040522AIR.M

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

QLast Update : Wed Apr 06 06:12:53 2022

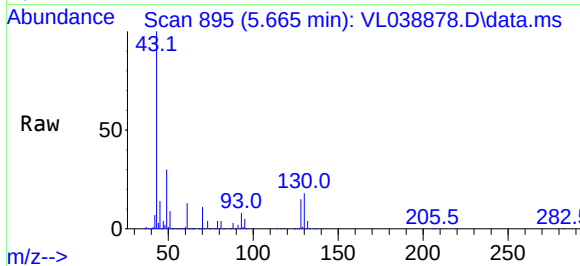
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.665 min Scan# 895  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

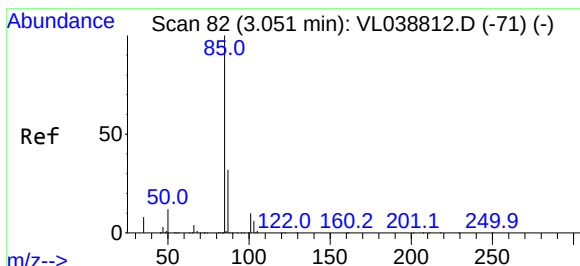
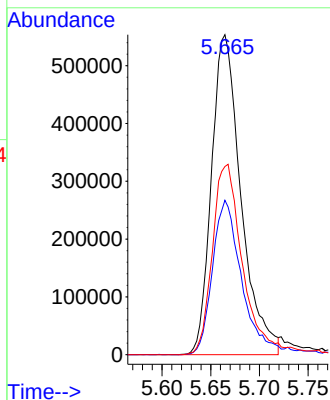
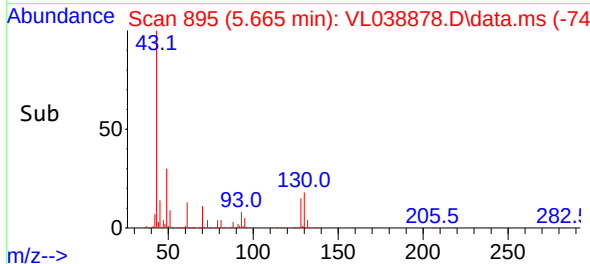
Instrument : MSVOA\_L  
ClientSampleId : IA-2DL



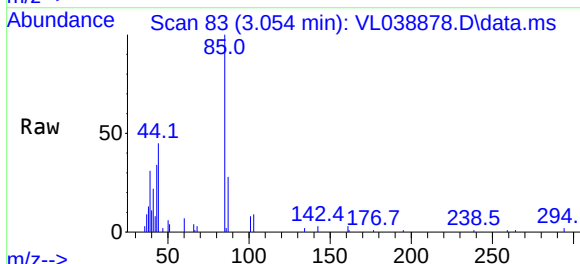
Tgt Ion: 49 Resp: 1167020  
Ion Ratio Lower Upper  
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128 49.9 24.1 72.3  
130 63.0 30.9 92.8

Manual Integrations  
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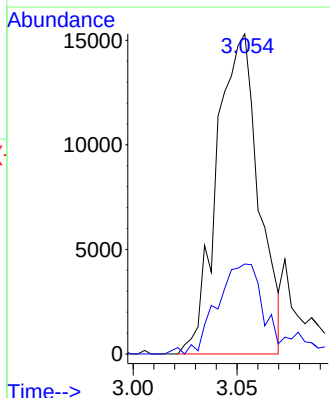
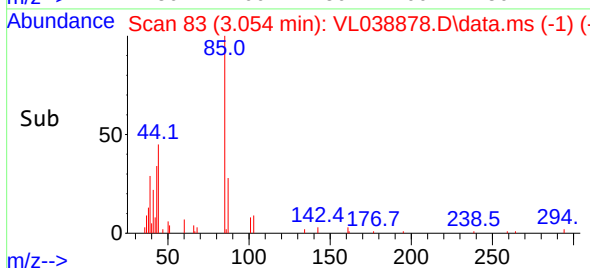
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022

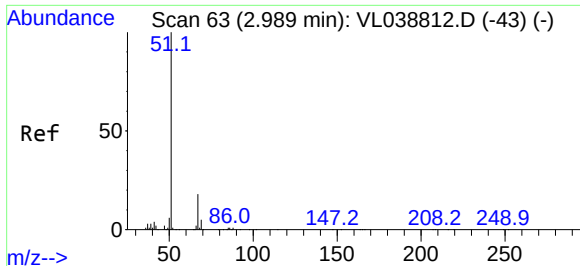


#2  
Dichlorodifluoromethane  
Concen: 0.130 ppbv  
RT: 3.054 min Scan# 83  
Delta R.T. 0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



Tgt Ion: 85 Resp: 21438  
Ion Ratio Lower Upper  
85 100  
87 26.1 25.9 38.9





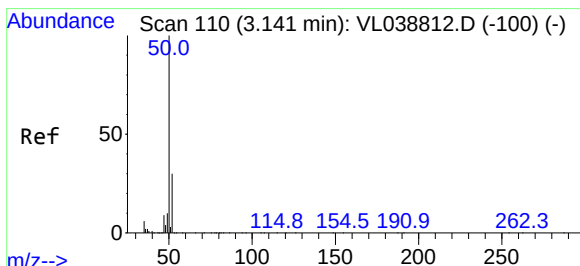
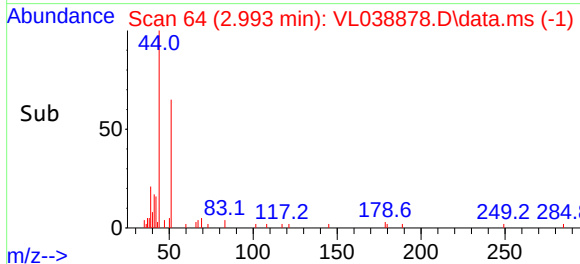
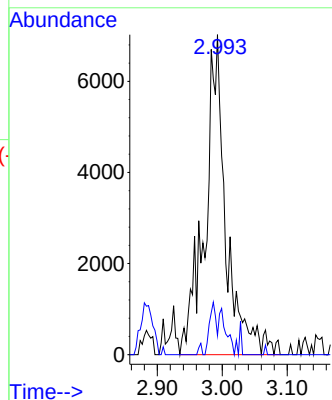
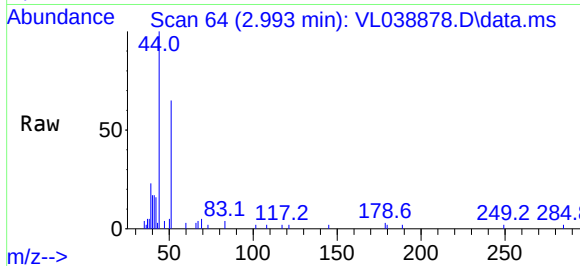
#3  
Chlorodifluoromethane  
Concen: 0.111 ppbv  
RT: 2.993 min Scan# 64  
Delta R.T. 0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

Instrument :  
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ClientSampleId :  
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Tgt Ion: 51 Resp: 15878  
Ion Ratio Lower Upper  
51 100  
67 11.9 13.4 20.0

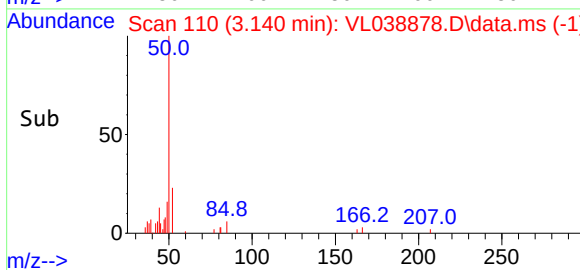
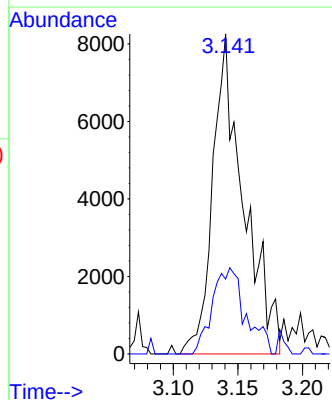
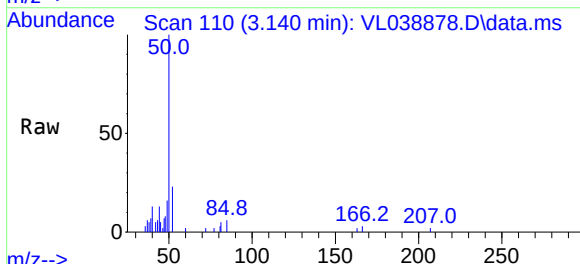
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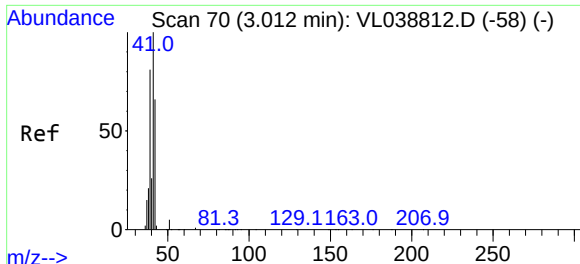
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022



#4  
Chloromethane  
Concen: 0.186 ppbv m  
RT: 3.140 min Scan# 110  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

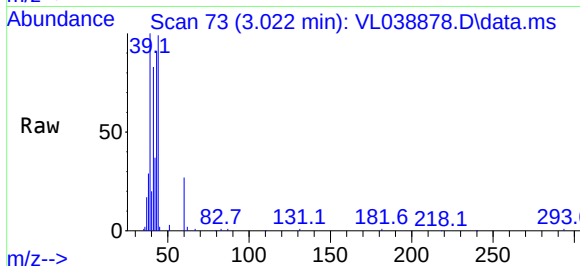
Tgt Ion: 50 Resp: 13697  
Ion Ratio Lower Upper  
50 100  
52 23.4 24.3 36.5





#9  
Propene  
Concen: 0.784 ppbv  
RT: 3.022 min Scan# 70  
Delta R.T. 0.010 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

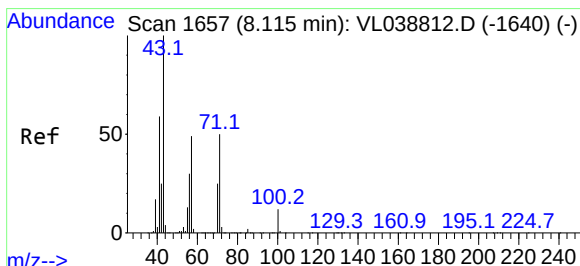
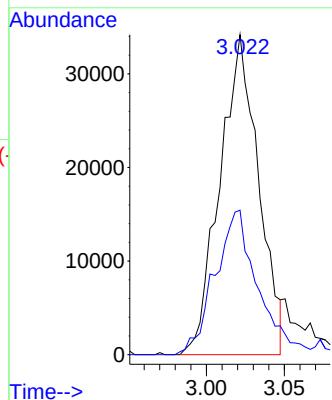
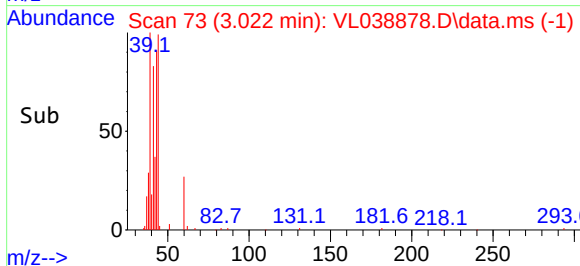
Instrument :  
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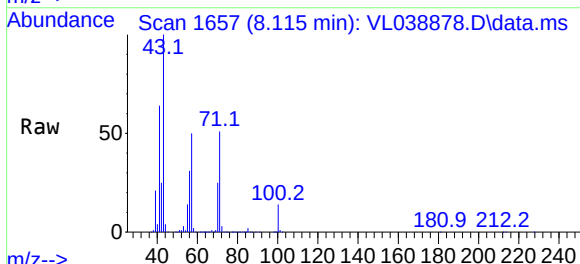
Tgt Ion: 41 Resp: 5908  
Ion Ratio Lower Upper  
41 100  
42 51.8 54.2 81.4

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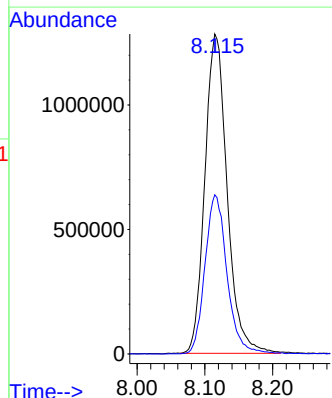
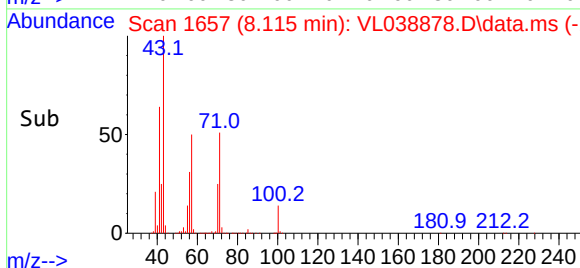
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022

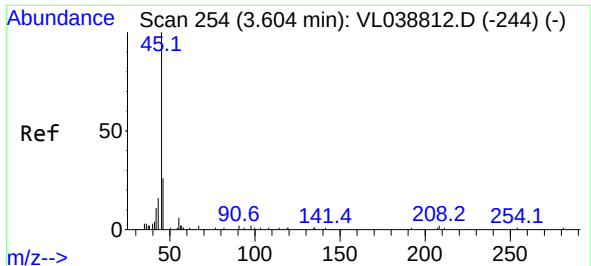


#10  
Heptane  
Concen: 15.449 ppbv  
RT: 8.115 min Scan# 1657  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



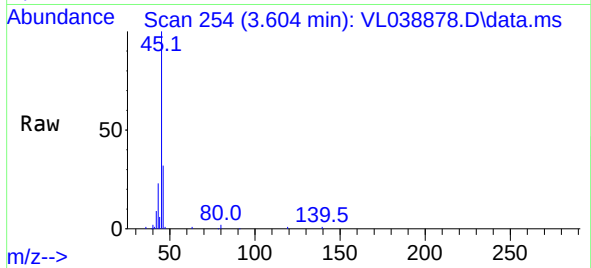
Tgt Ion: 43 Resp: 2932397  
Ion Ratio Lower Upper  
43 100  
57 49.5 39.3 58.9





#13  
Ethanol  
Concen: 18.898 ppbv m  
RT: 3.604 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

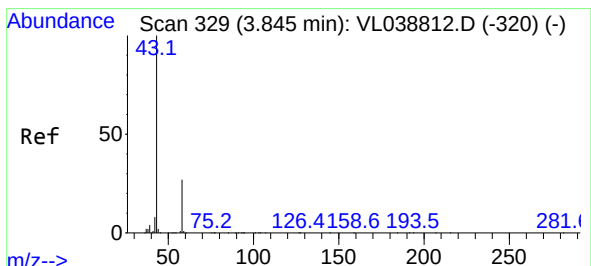
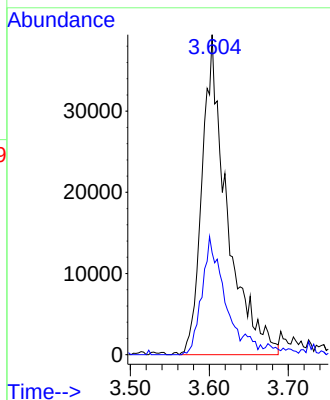
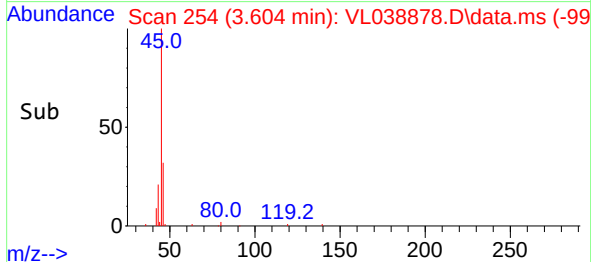
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL



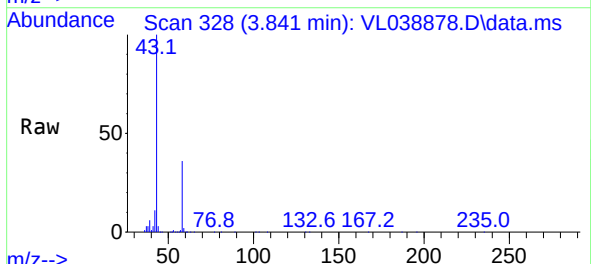
Tgt Ion: 45 Resp: 86542  
Ion Ratio Lower Upper  
45 100  
46 37.3 0.0 0.0

Manual Integrations  
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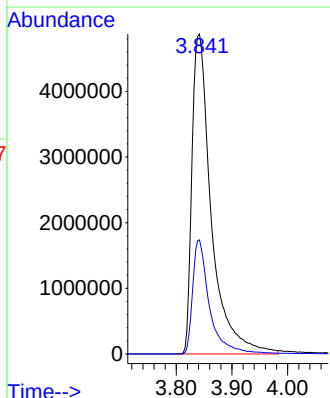
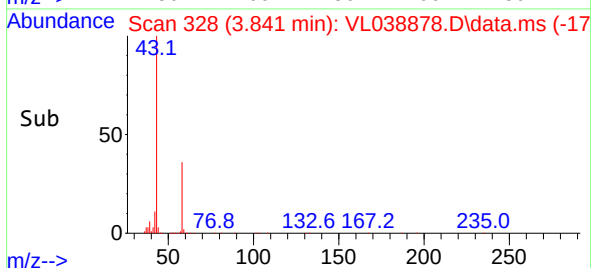
Reviewed By :Semsettin Yesilyurt 04/13/2022  
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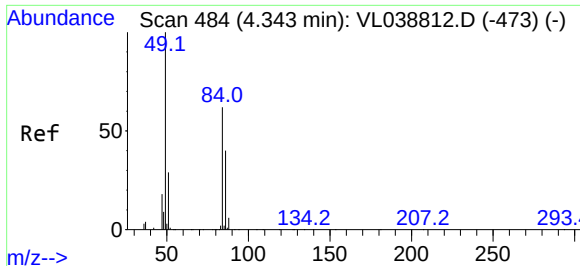


#15  
Acetone  
Concen: 101.473 ppbv  
RT: 3.841 min Scan# 328  
Delta R.T. -0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



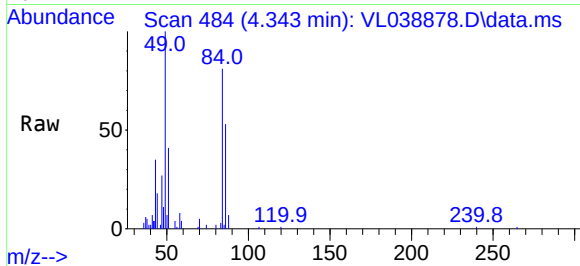
Tgt Ion: 43 Resp:11789888  
Ion Ratio Lower Upper  
43 100  
58 31.4 22.5 33.7





#20  
Methylene Chloride  
Concen: 0.581 ppbv m  
RT: 4.343 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

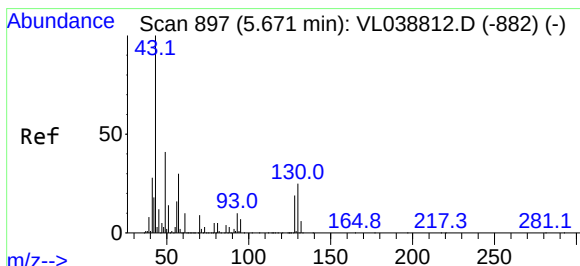
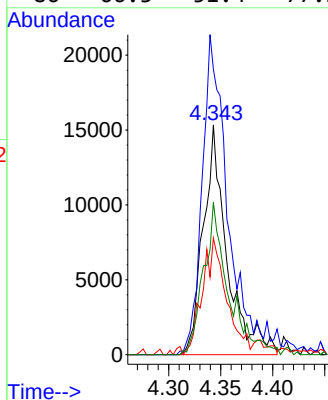
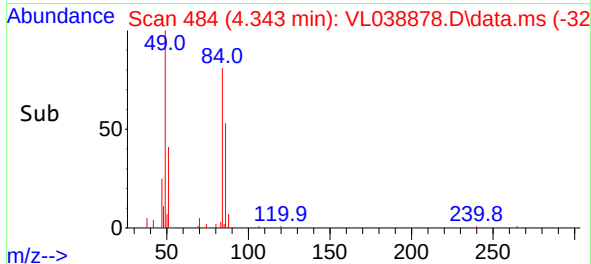
Instrument :  
MSVOA\_L  
ClientSampleId :  
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Tgt Ion: 84 Resp: 2448  
Ion Ratio Lower Upper  
84 100  
49 124.1 129.4 194.0#  
51 50.8 37.4 56.2  
86 66.3 51.4 77.2

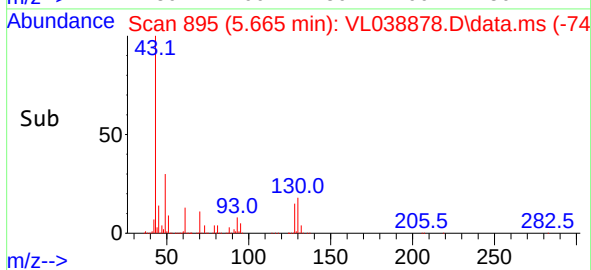
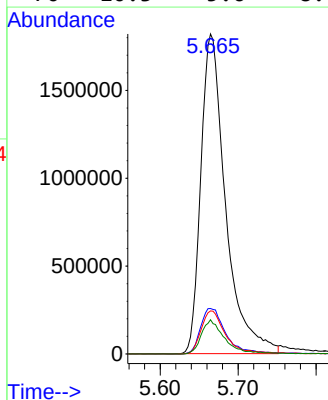
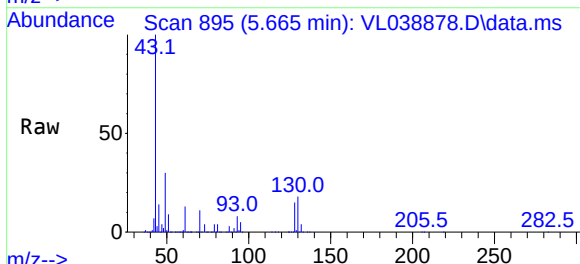
Manual Integrations  
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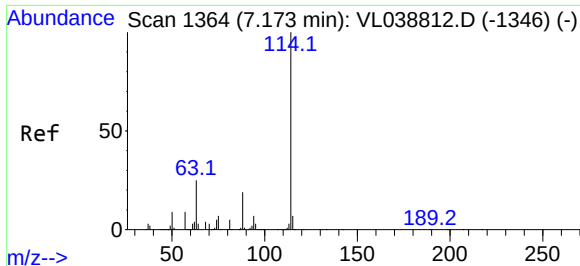
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022



#25  
Ethyl Acetate  
Concen: 13.639 ppbv  
RT: 5.665 min Scan# 895  
Delta R.T. -0.007 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

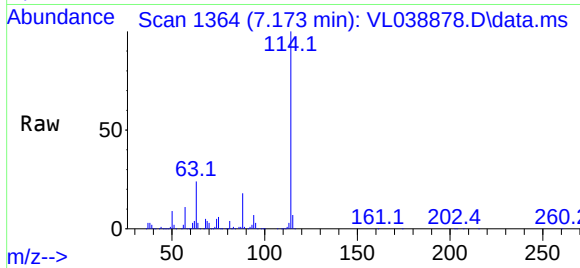
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Ion Ratio Lower Upper  
43 100  
45 15.0 8.4 12.6#  
61 13.6 7.9 11.9#  
70 10.3 5.6 8.4#





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.173 min Scan# 114  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

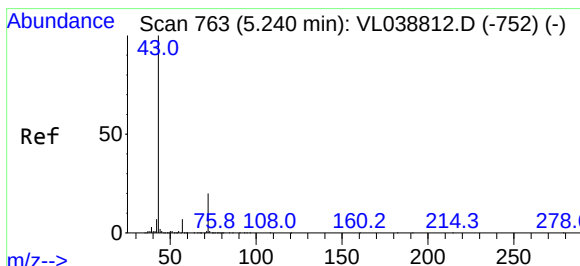
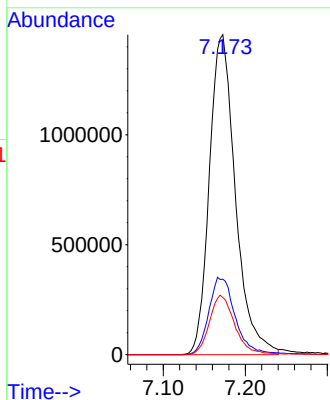
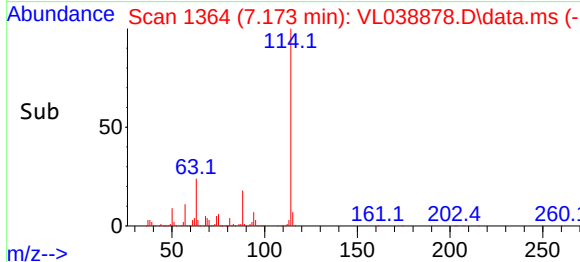
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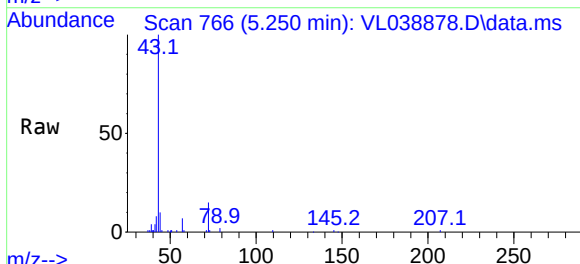
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Ion Ratio Lower Upper  
114 100  
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88 18.3 14.2 21.4

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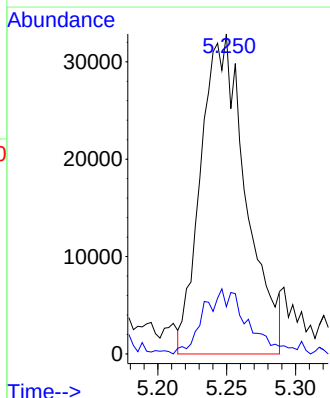
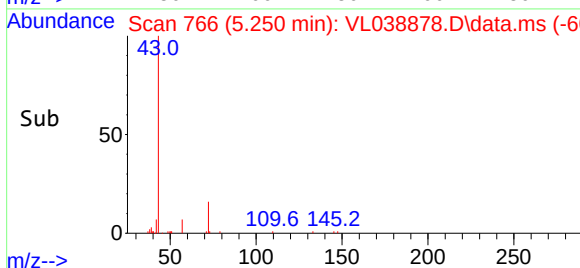
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022



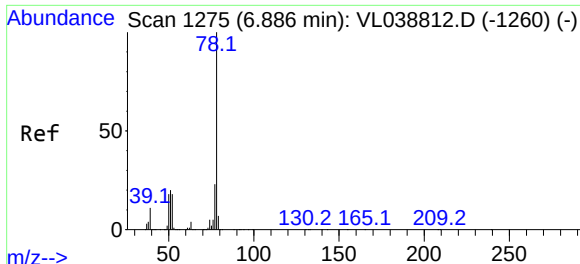
#34  
2-Butanone  
Concen: 0.588 ppbv m  
RT: 5.250 min Scan# 766  
Delta R.T. 0.010 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



Tgt Ion: 43 Resp: 74629  
Ion Ratio Lower Upper  
43 100  
72 1.7 16.9 25.3#

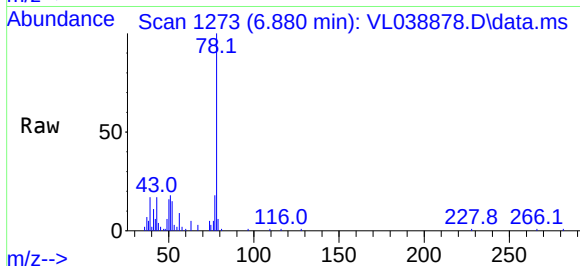






#36  
Benzene  
Concen: 0.119 ppbv m  
RT: 6.880 min Scan# 1  
Delta R.T. -0.007 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

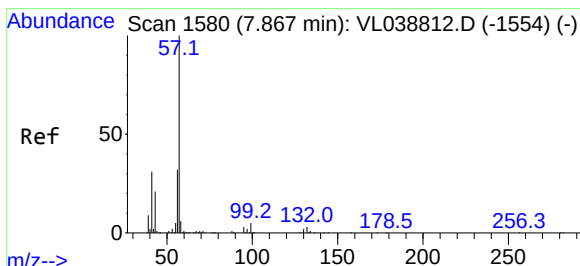
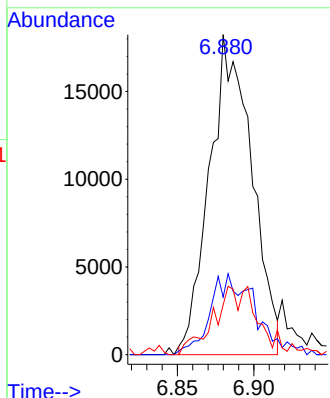
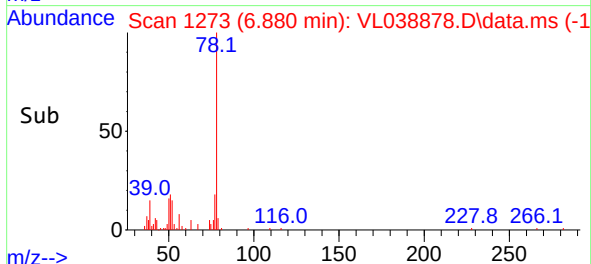
Instrument :  
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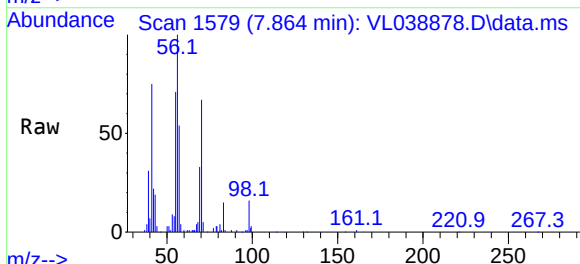
Tgt Ion: 78 Resp: 34910  
Ion Ratio Lower Upper  
78 100  
77 18.0 18.2 27.2  
50 15.6 14.0 21.0

Manual Integrations  
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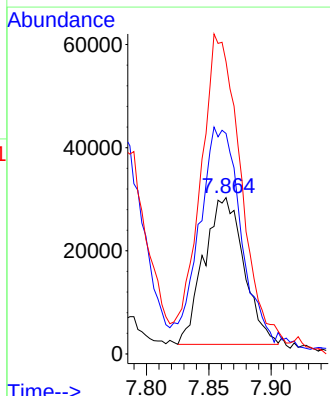
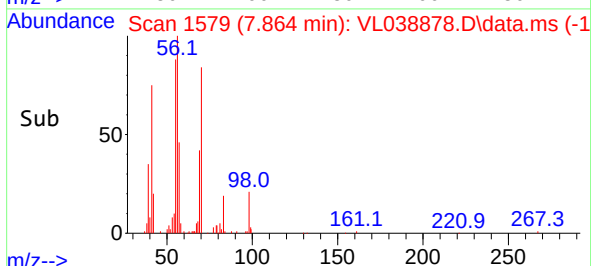
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022

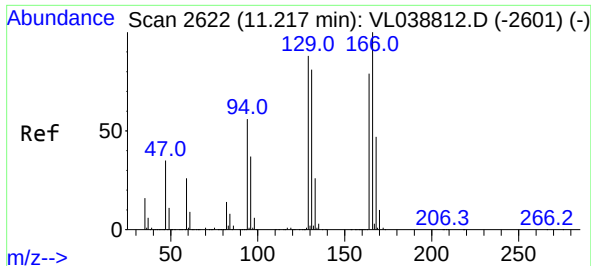


#44  
2,2,4-Trimethylpentane  
Concen: 0.129 ppbv  
RT: 7.864 min Scan# 1579  
Delta R.T. -0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



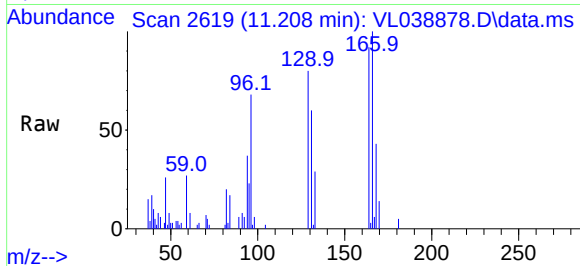
Tgt Ion: 57 Resp: 63599  
Ion Ratio Lower Upper  
57 100  
41 170.3 25.0 37.4#  
56 234.2 25.3 37.9#





#52  
Tetrachloroethene  
Concen: 0.151 ppbv m  
RT: 11.208 min Scan# 2619  
Delta R.T. -0.010 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

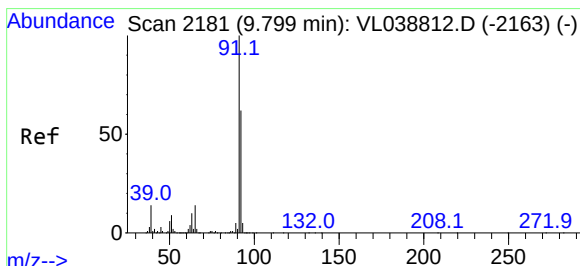
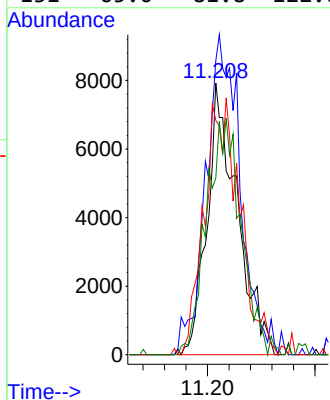
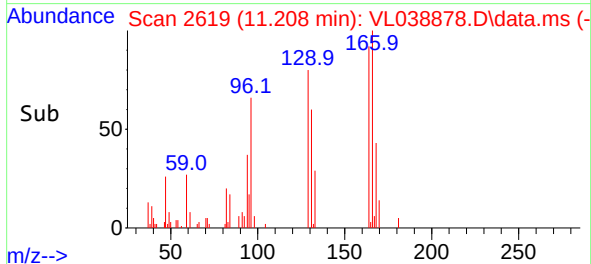
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL



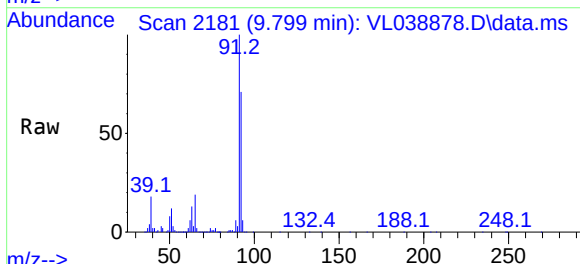
Tgt Ion:164 Resp: 15370  
Ion Ratio Lower Upper  
164 100  
166 108.2 101.0 151.6  
129 86.3 88.7 133.1  
131 65.0 81.8 122.6#

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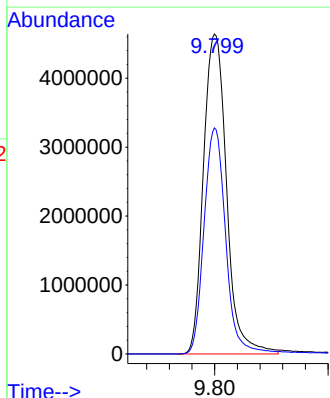
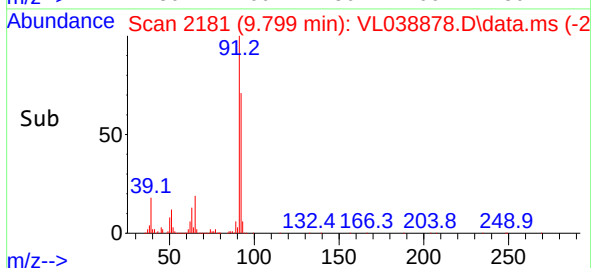
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022

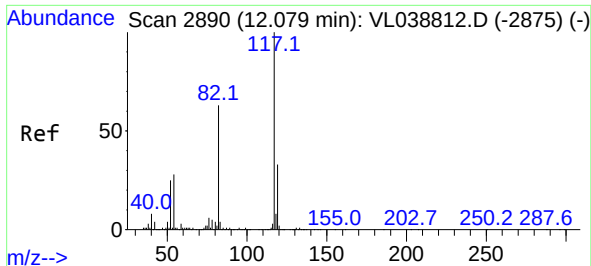


#53  
Toluene  
Concen: 38.996 ppbv  
RT: 9.799 min Scan# 2181  
Delta R.T. -0.000 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



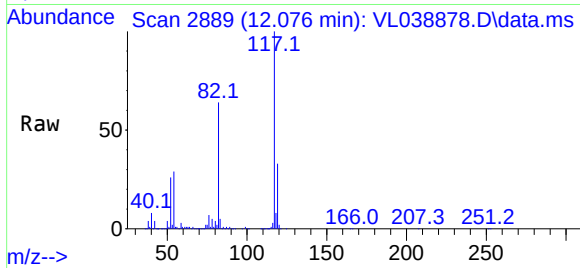
Tgt Ion: 91 Resp:13154167  
Ion Ratio Lower Upper  
91 100  
92 67.4 49.2 73.8





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.076 min Scan# 2889  
Delta R.T. -0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

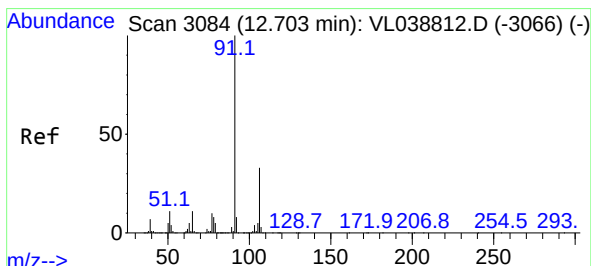
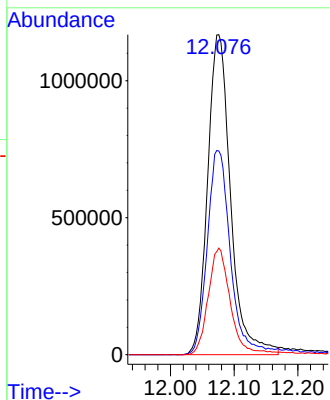
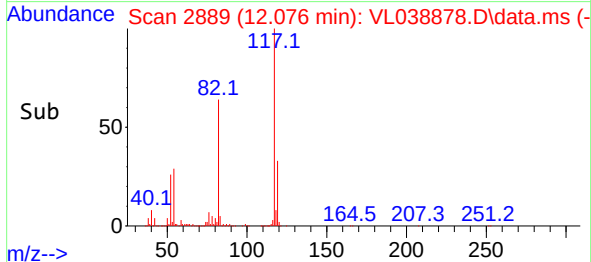
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL



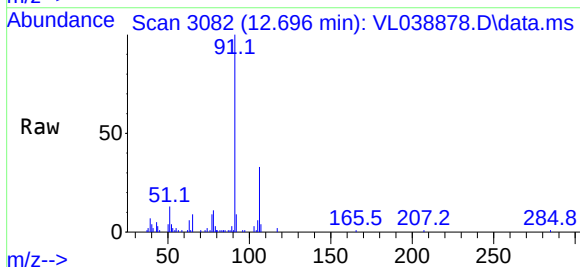
Tgt Ion: 117 Resp: 2928750  
Ion Ratio Lower Upper  
117 100  
82 66.7 53.0 79.6  
119 33.0 24.9 37.3

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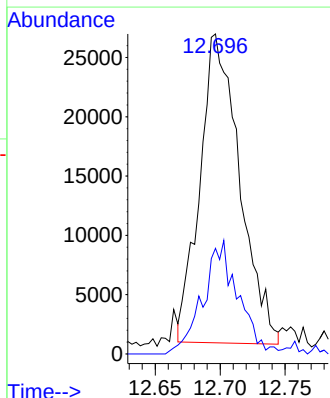
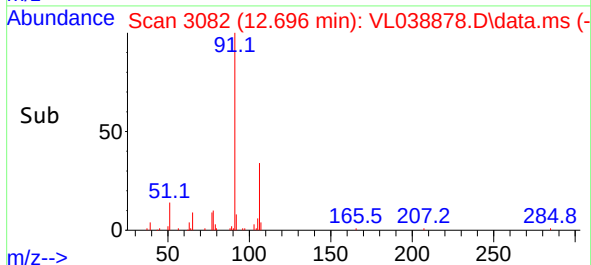
Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022

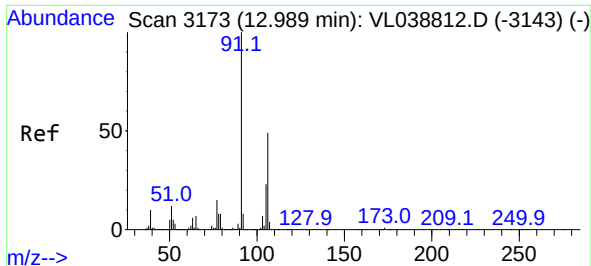


#58  
Ethyl Benzene  
Concen: 0.127 ppbv  
RT: 12.696 min Scan# 3082  
Delta R.T. -0.007 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19



Tgt Ion: 91 Resp: 55581  
Ion Ratio Lower Upper  
91 100  
106 34.7 26.7 40.1





#59

m/p-Xylene

Concen: 0.423 ppbv m

RT: 12.954 min Scan# 3173

Delta R.T. -0.035 min

Lab File: VL038878.D

Acq: 11 Apr 2022 20:19

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DL

Tgt Ion: 91 Resp: 15564

Ion Ratio Lower Upper

91 100

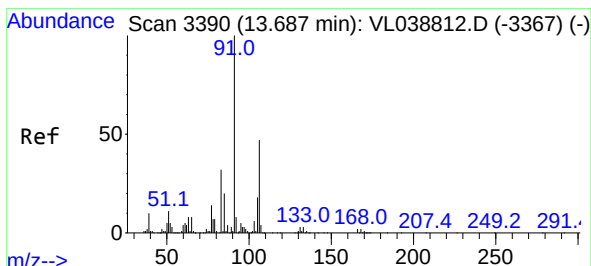
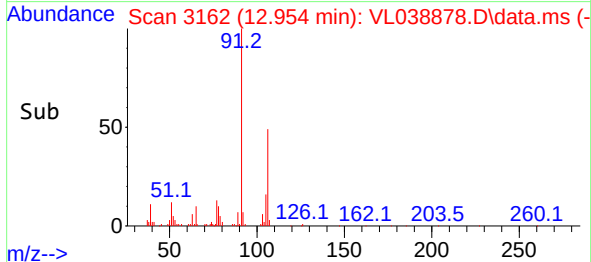
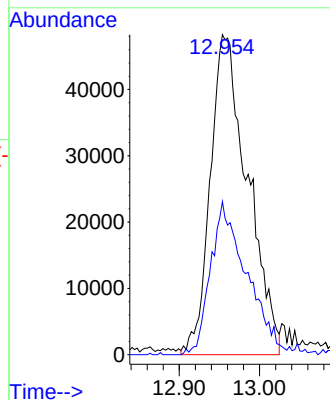
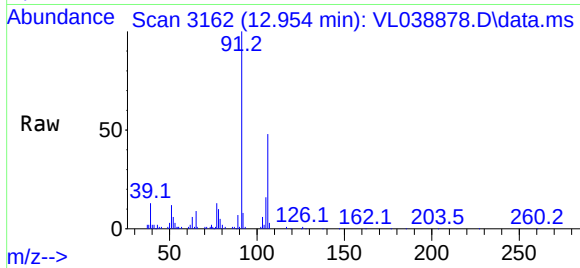
106 0.0 37.1 55.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/13/2022

Supervised By :Mahesh Dadoda 04/14/2022



#60

o-Xylene

Concen: 0.170 ppbv m

RT: 13.680 min Scan# 3388

Delta R.T. -0.007 min

Lab File: VL038878.D

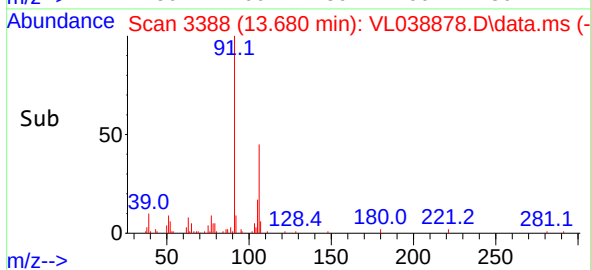
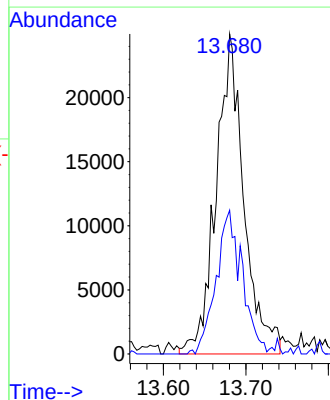
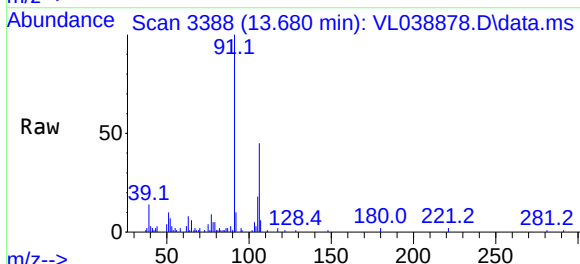
Acq: 11 Apr 2022 20:19

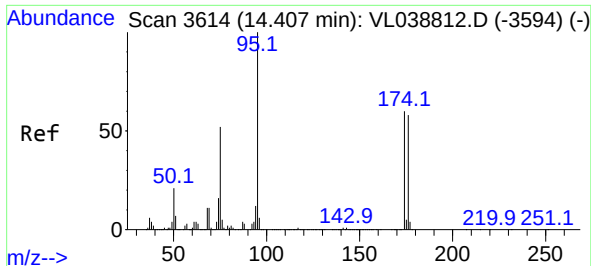
Tgt Ion: 91 Resp: 58447

Ion Ratio Lower Upper

91 100

106 43.6 23.8 71.4





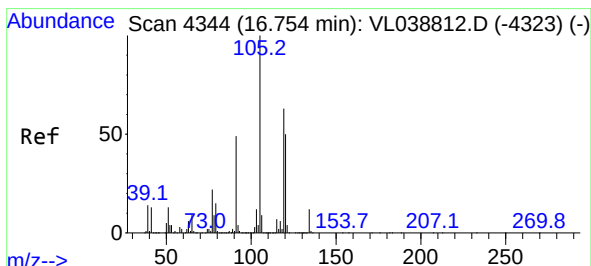
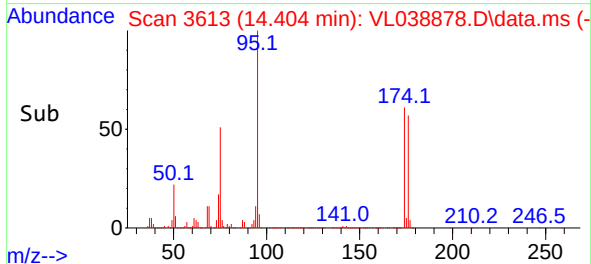
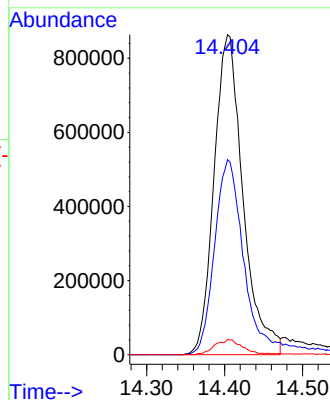
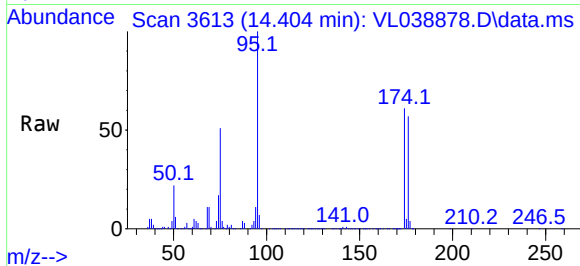
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.030 ppbv  
RT: 14.404 min Scan# 30  
Delta R.T. -0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL

Tgt Ion: 95 Resp: 2228314  
Ion Ratio Lower Upper  
95 100  
174 65.7 52.0 78.0  
175 4.7 4.0 6.0

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Reviewed By :Semsettin Yesilyurt 04/13/2022  
Supervised By :Mahesh Dadoda 04/14/2022



#74  
1,2,4-Trimethylbenzene  
Concen: 0.115 ppbv m  
RT: 16.751 min Scan# 4343  
Delta R.T. -0.003 min  
Lab File: VL038878.D  
Acq: 11 Apr 2022 20:19

Tgt Ion:105 Resp: 44866  
Ion Ratio Lower Upper  
105 100  
120 39.3 39.8 59.8#  
91 17.9 39.4 59.0#  
77 8.0 17.3 25.9#

