

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL122022\  
 Data File : VL040057.D  
 Acq On : 20 Dec 2022 15:20  
 Operator : SY/MD  
 Sample : N6085-01DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1DUP

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/21/2022  
 Supervised By :Mahesh Dadoda 12/21/2022

Quant Time: Dec 21 03:55:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug :  
 QLast Update : Tue Dec 20 04:50:21 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.166  | 49    | 911265   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.626  | 114   | 2337130  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.439 | 117   | 2011754  | 10.000   | ppbv   | -0.01    |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.751 | 95    | 1508186  | 9.814    | ppbv   | -0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.100%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 2.710  | 85    | 39739    | 0.233    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 2.652  | 51    | 30869m   | 0.230    | ppbv   |          |
| 4) Chloromethane            | 2.796  | 50    | 29934    | 0.355    | ppbv   | 96       |
| 9) Propene                  | 2.681  | 41    | 32258m   | 0.565    | ppbv   |          |
| 11) Trichlorofluoromethane  | 3.539  | 101   | 36745    | 0.198    | ppbv   | 98       |
| 13) Ethanol                 | 3.214  | 45    | 1405924  | 261.801  | ppbv   | 96       |
| 15) Acetone                 | 3.446  | 43    | 279476m  | 1.983    | ppbv   |          |
| 19) Isopropyl Alcohol       | 3.555  | 45    | 490312   | 7.058    | ppbv # | 98       |
| 20) Methylene Chloride      | 3.909  | 84    | 237455   | 3.963    | ppbv   | 98       |
| 26) Hexane                  | 5.189  | 57    | 254062   | 2.476    | ppbv # | 37       |
| 34) 2-Butanone              | 4.771  | 43    | 30829m   | 0.243    | ppbv   |          |
| 35) Carbon Tetrachloride    | 6.468  | 117   | 10392m   | 0.072    | ppbv   |          |
| 36) Benzene                 | 6.343  | 78    | 37661    | 0.180    | ppbv # | 91       |
| 53) Toluene                 | 9.198  | 91    | 61731    | 0.267    | ppbv   | 98       |
| -----                       |        |       |          |          |        |          |

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

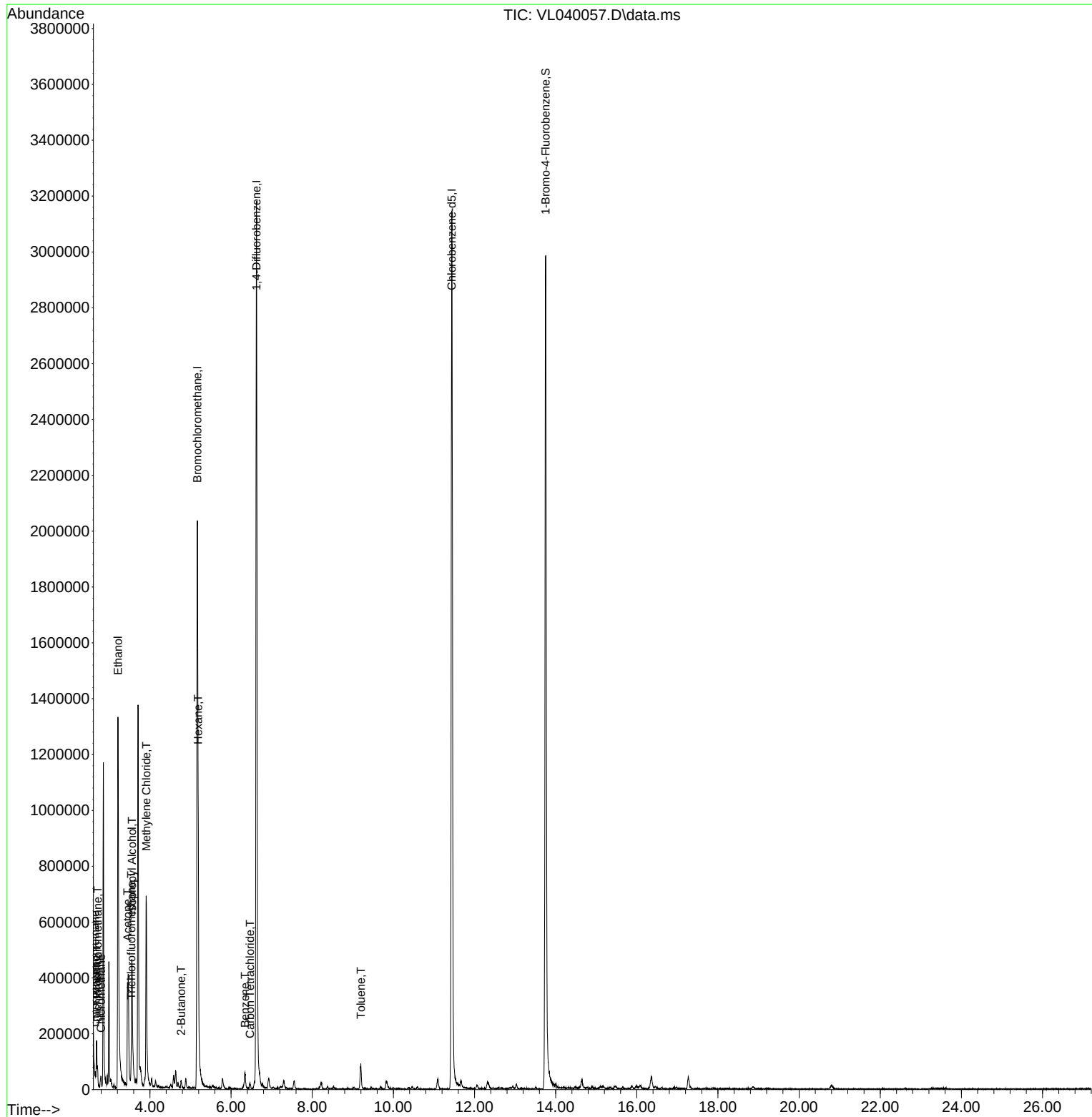
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL122022\  
Data File : VL040057.D  
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Sample : N6085-01DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

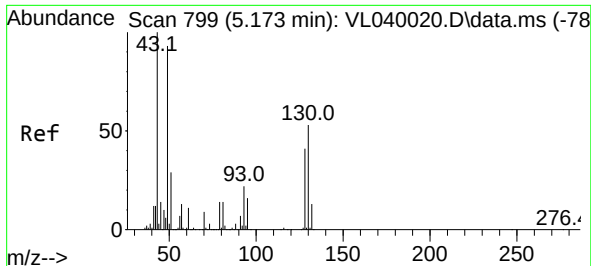
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Quant Time: Dec 21 03:55:48 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Dec 20 04:50:21 2022  
Response via : Initial Calibration

Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 12/21/2022  
Supervised By : Mahesh Dadoda 12/21/2022





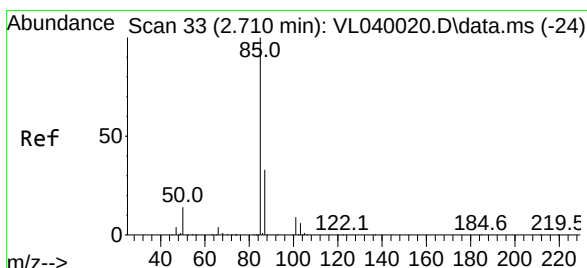
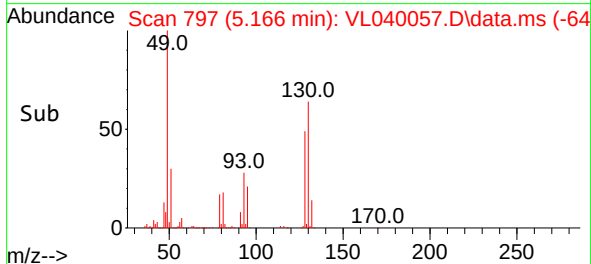
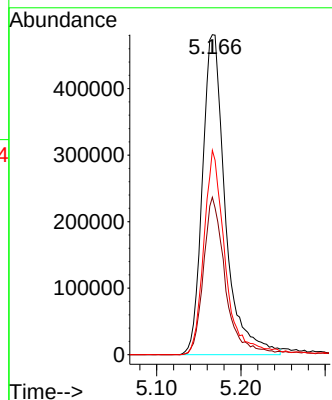
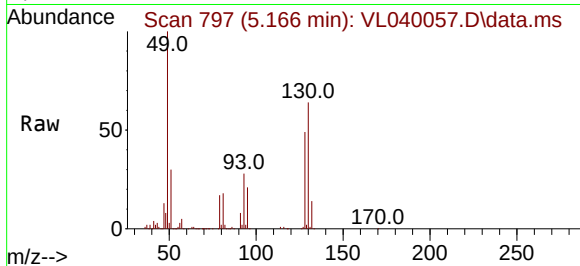
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.166 min Scan# 799  
Delta R.T. -0.007 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tgt Ion: 49 Resp: 91126  
Ion Ratio Lower Upper  
49 100  
128 48.5 22.4 67.3  
130 61.0 28.9 86.8

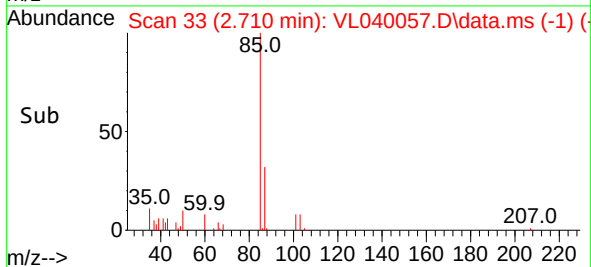
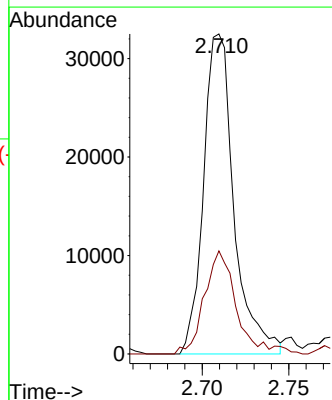
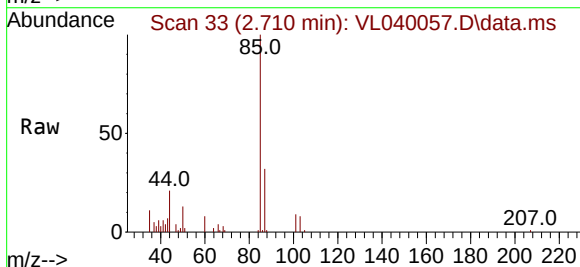
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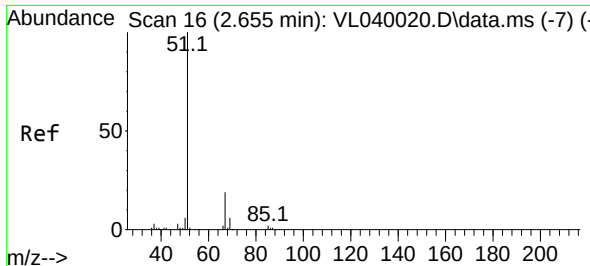
Reviewed By :Semsettin Yesilyurt 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022



#2  
Dichlorodifluoromethane  
Concen: 0.233 ppbv  
RT: 2.710 min Scan# 33  
Delta R.T. 0.000 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

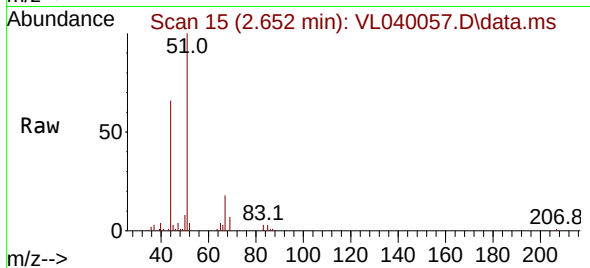
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Ion Ratio Lower Upper  
85 100  
87 30.1 26.6 40.0





#3  
Chlorodifluoromethane  
Concen: 0.230 ppbv m  
RT: 2.652 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

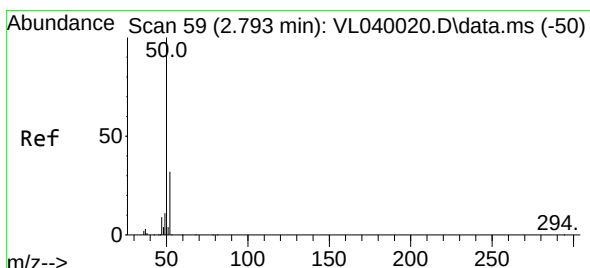
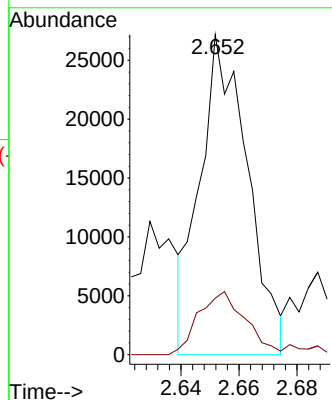
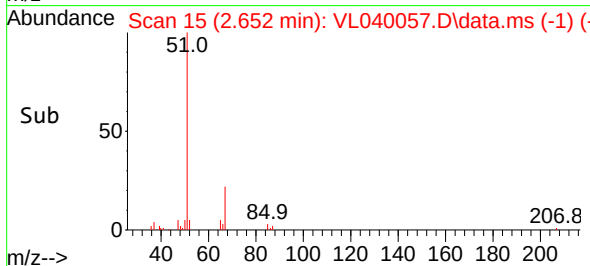
Instrument :  
MSVOA\_L  
ClientSampleId :  
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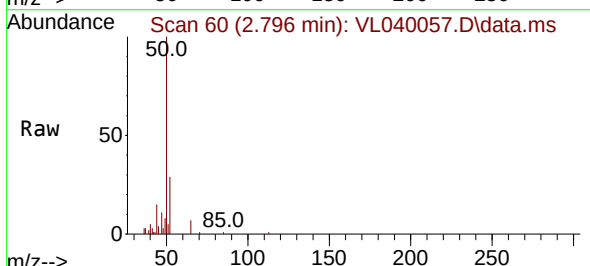
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Ion Ratio Lower Upper  
51 100  
67 21.9 15.3 22.9

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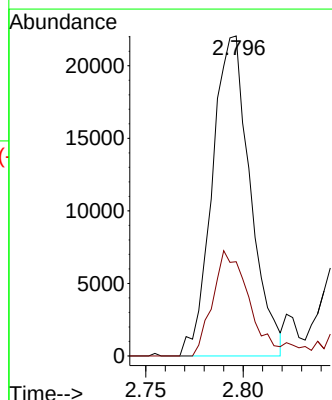
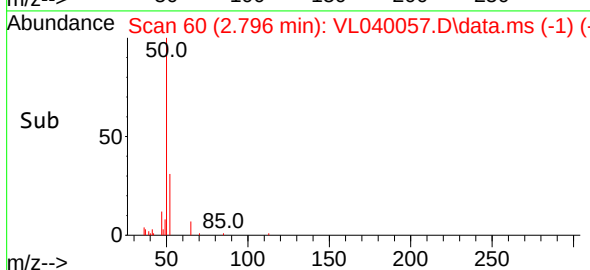
Reviewed By :Semsettin Yesilyurt 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022

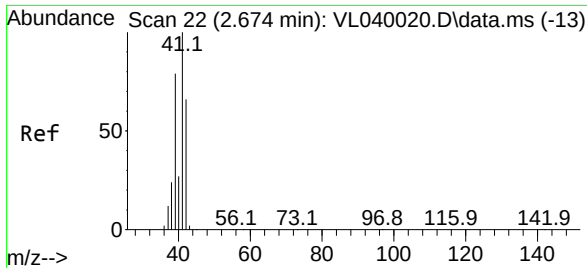


#4  
Chloromethane  
Concen: 0.355 ppbv  
RT: 2.796 min Scan# 60  
Delta R.T. 0.003 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20



Tgt Ion: 50 Resp: 29934  
Ion Ratio Lower Upper  
50 100  
52 29.4 25.5 38.3





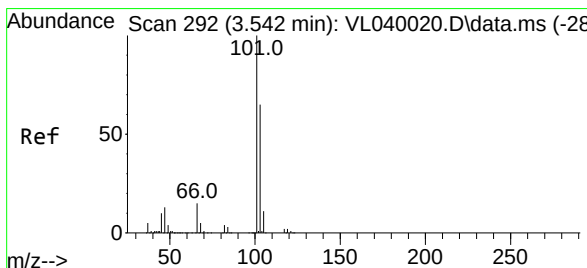
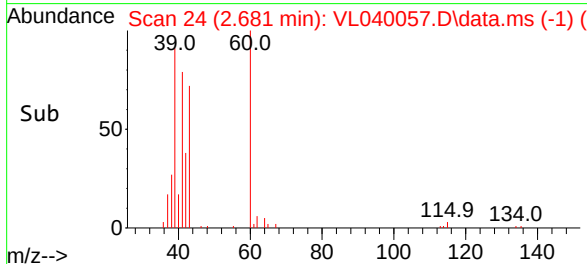
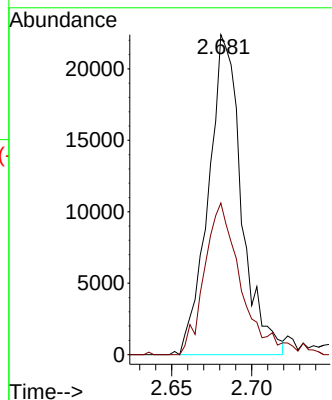
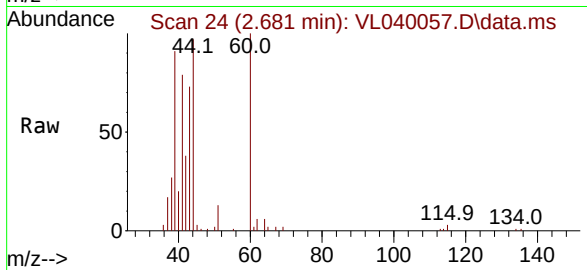
#9  
Propene  
Concen: 0.565 ppbv m  
RT: 2.681 min Scan# 24  
Delta R.T. 0.006 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
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Tgt Ion: 41 Resp: 3225  
Ion Ratio Lower Upper  
41 100  
42 625.4 54.8 82.2

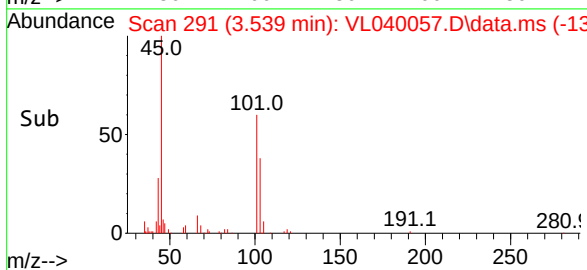
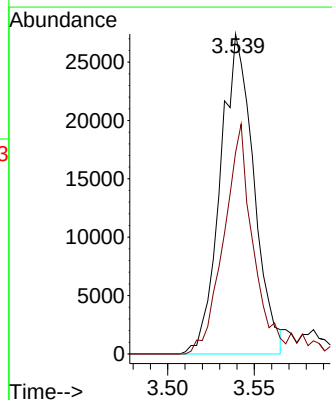
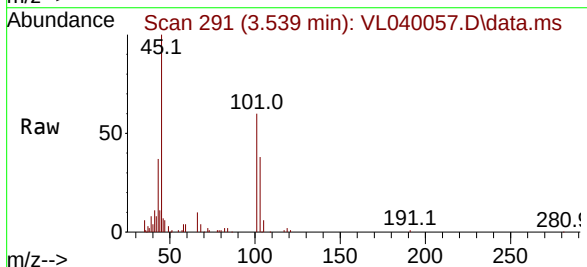
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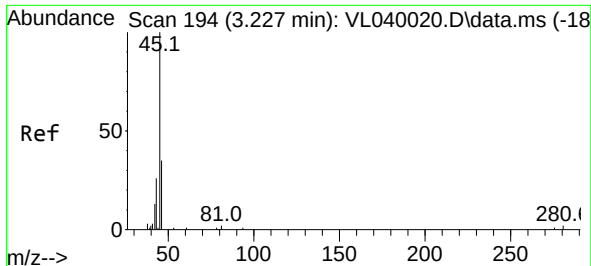
Reviewed By :Semsettin Yesilyurt 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022



#11  
Trichlorofluoromethane  
Concen: 0.198 ppbv  
RT: 3.539 min Scan# 291  
Delta R.T. -0.003 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

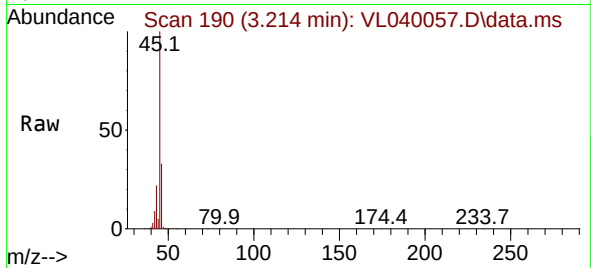
Tgt Ion:101 Resp: 36745  
Ion Ratio Lower Upper  
101 100  
103 62.9 51.7 77.5





#13  
Ethanol  
Concen: 261.801 ppbv  
RT: 3.214 min Scan# 194  
Delta R.T. -0.013 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

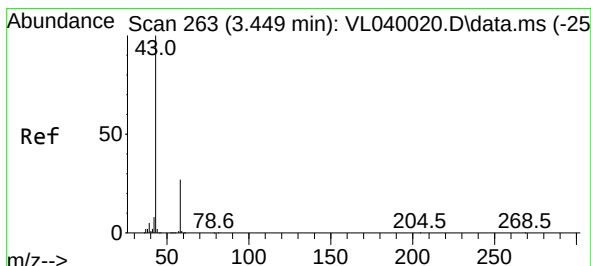
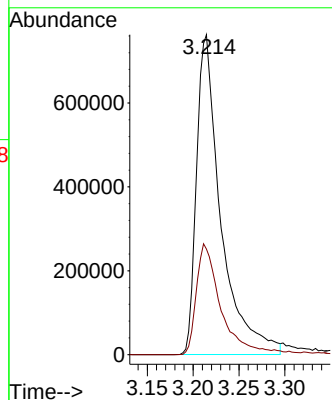
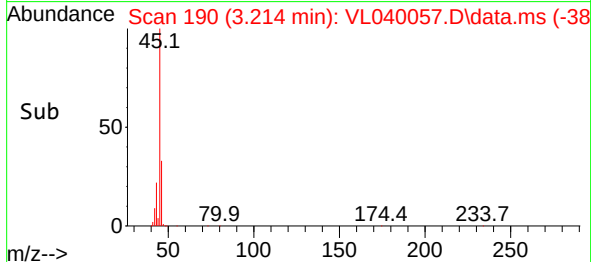
Instrument :  
MSVOA\_L  
ClientSampleId :  
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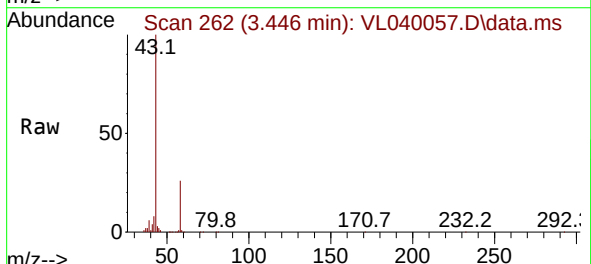
Tgt Ion: 45 Resp: 1405924  
Ion Ratio Lower Upper  
45 100  
46 36.2 13.7 54.7

Manual Integrations  
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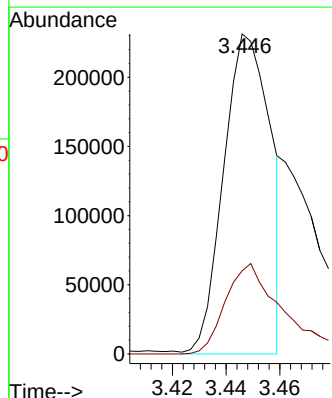
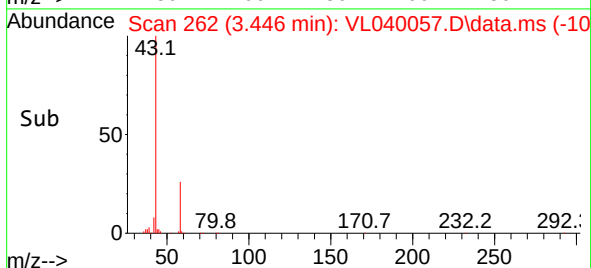
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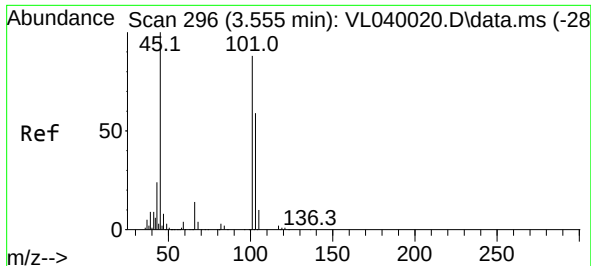


#15  
Acetone  
Concen: 1.983 ppbv m  
RT: 3.446 min Scan# 262  
Delta R.T. -0.003 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20



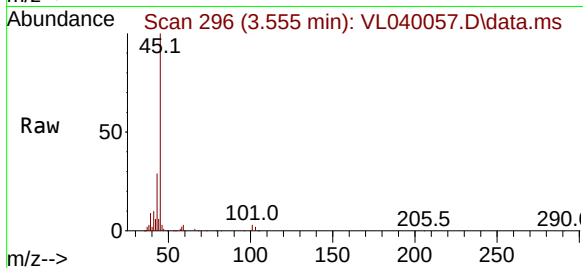
Tgt Ion: 43 Resp: 279476  
Ion Ratio Lower Upper  
43 100  
58 37.1 21.8 32.8#





#19  
Isopropyl Alcohol  
Concen: 7.058 ppbv  
RT: 3.555 min Scan# 296  
Delta R.T. 0.000 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

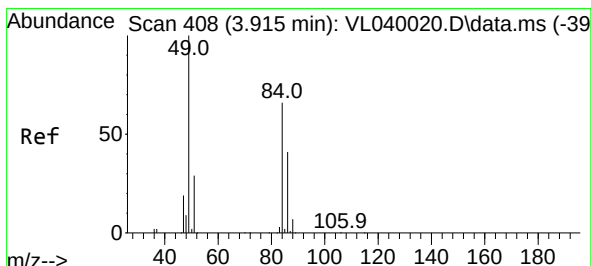
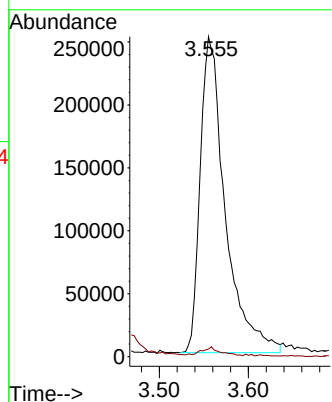
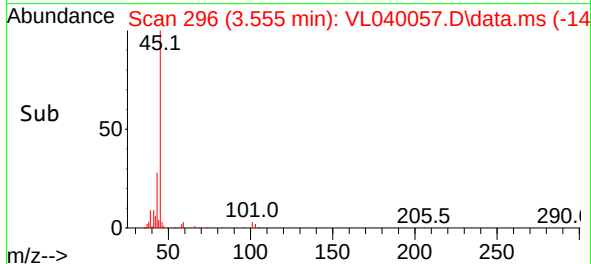
Instrument :  
MSVOA\_L  
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IA-1DUP



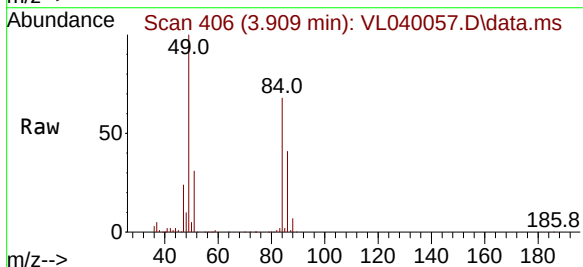
Tgt Ion: 45 Resp: 490312  
Ion Ratio Lower Upper  
45 100  
58 2.7 1.7 2.5

Manual Integrations  
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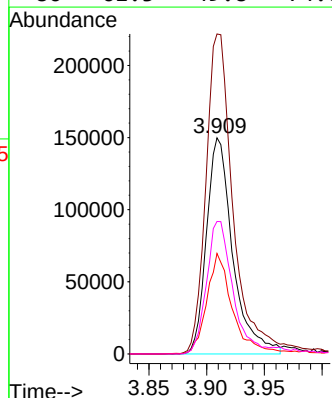
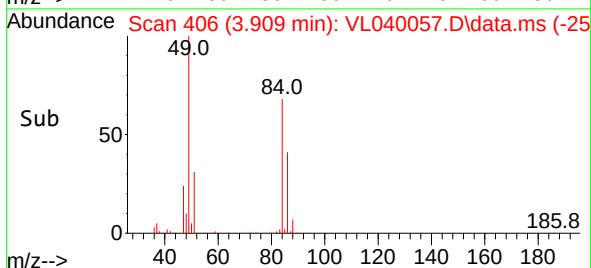
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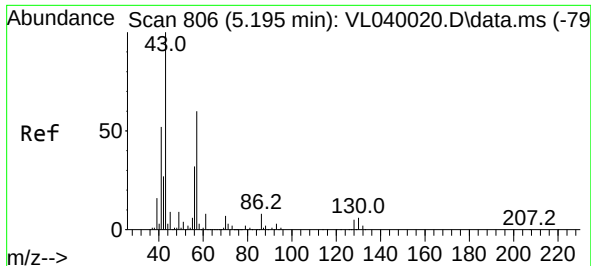


#20  
Methylene Chloride  
Concen: 3.963 ppbv  
RT: 3.909 min Scan# 406  
Delta R.T. -0.006 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20



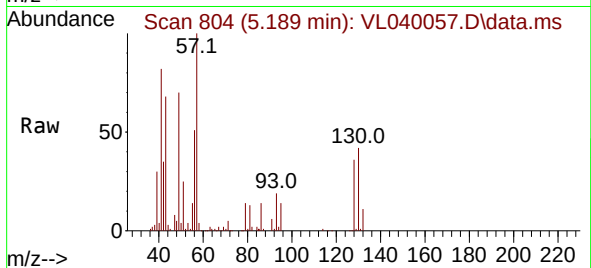
Tgt Ion: 84 Resp: 237455  
Ion Ratio Lower Upper  
84 100  
49 147.9 120.5 180.7  
51 46.3 35.2 52.8  
86 61.3 49.8 74.6





#26  
Hexane  
Concen: 2.476 ppbv  
RT: 5.189 min Scan# 804  
Delta R.T. -0.006 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

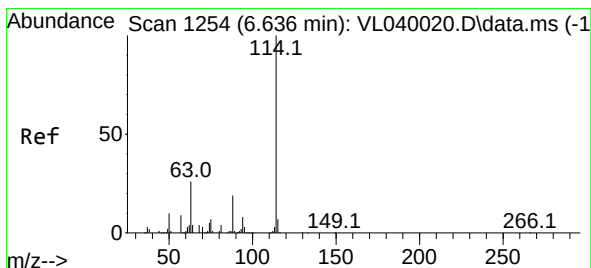
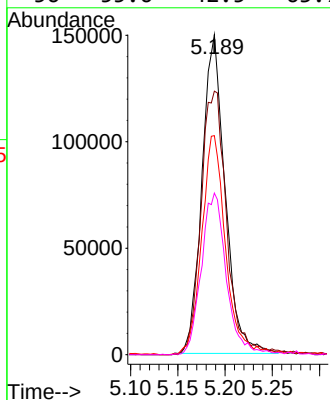
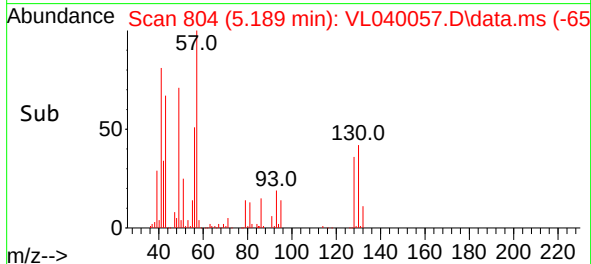
Instrument :  
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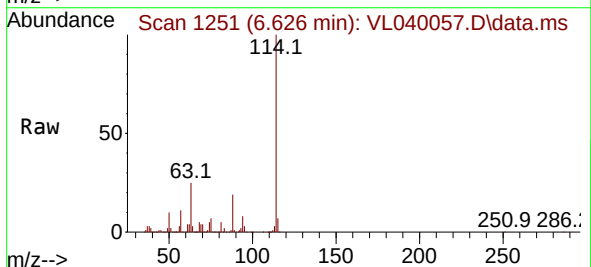
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Ion Ratio Lower Upper  
57 100  
41 93.3 72.1 108.1  
43 72.4 192.1 288.1  
56 55.6 42.5 63.7

Manual Integrations  
APPROVED

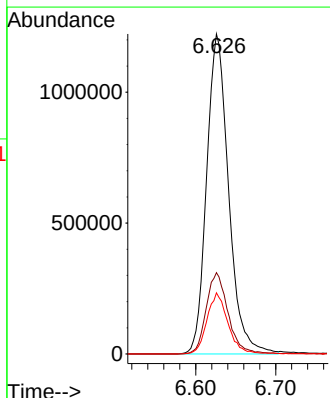
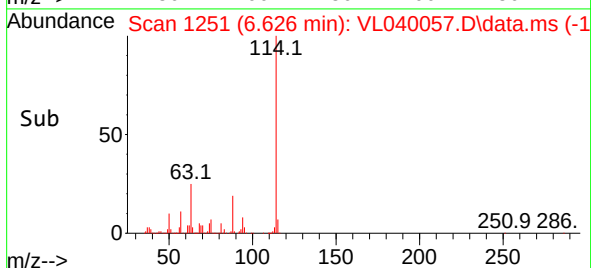
Reviewed By :Semsettin Yesilyurt 12/21/2022  
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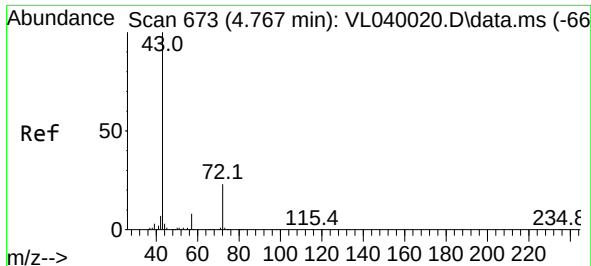
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.626 min Scan# 1251  
Delta R.T. -0.010 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20



Tgt Ion:114 Resp: 2337130  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.2 30.2  
88 18.4 14.6 21.8







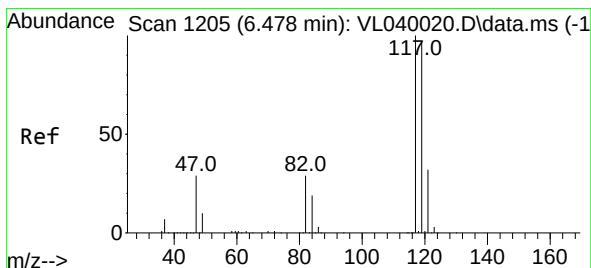
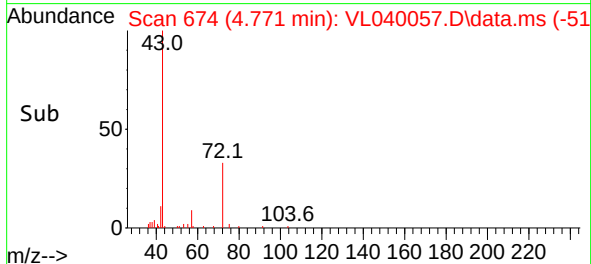
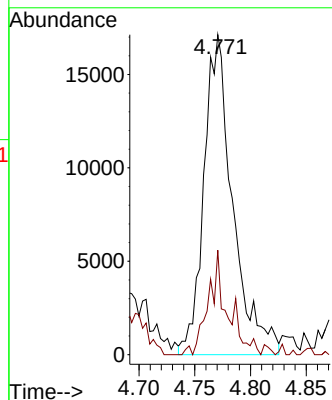
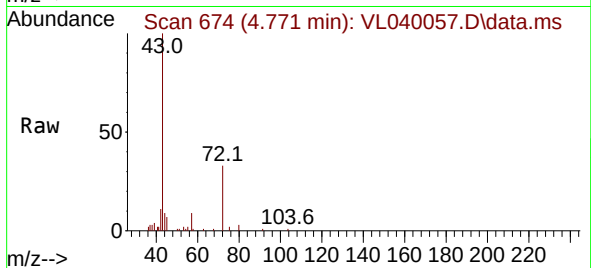
#34  
2-Butanone  
Concen: 0.243 ppbv m  
RT: 4.771 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tgt Ion: 43 Resp: 30829  
Ion Ratio Lower Upper  
43 100  
72 22.9 18.0 27.0

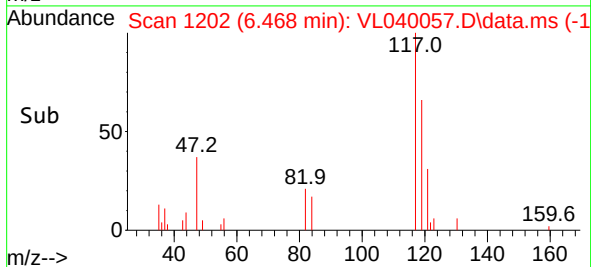
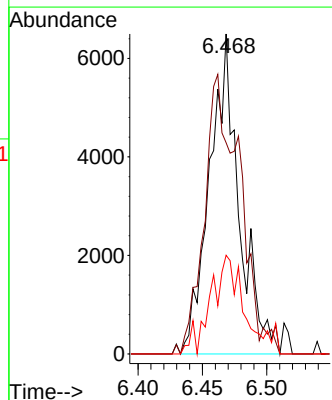
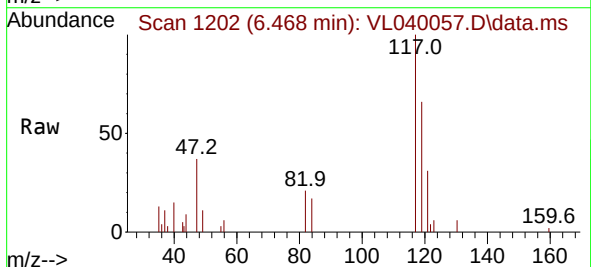
Manual Integrations  
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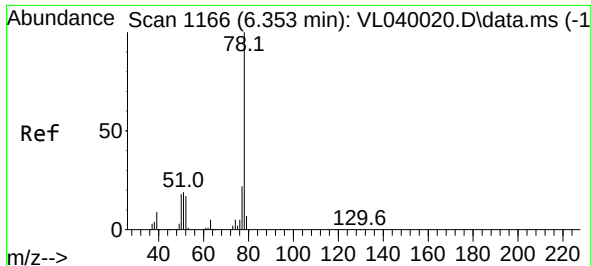
Reviewed By :Semsettin Yesilyurt 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022



#35  
Carbon Tetrachloride  
Concen: 0.072 ppbv m  
RT: 6.468 min Scan# 1202  
Delta R.T. -0.010 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Tgt Ion:117 Resp: 10392  
Ion Ratio Lower Upper  
117 100  
119 66.0 77.3 115.9#  
121 30.9 25.4 38.0





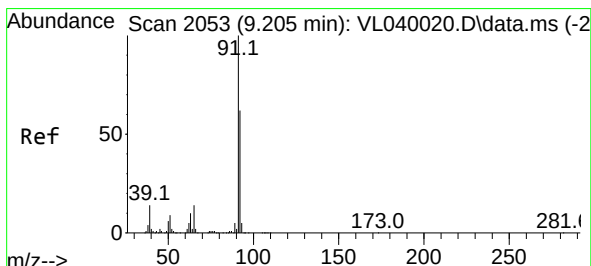
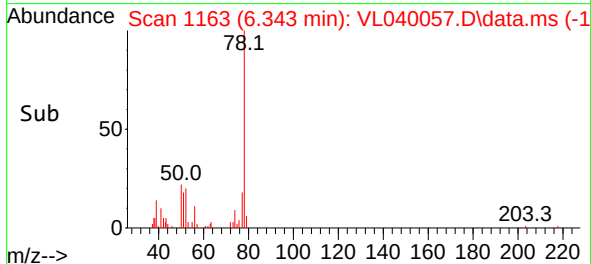
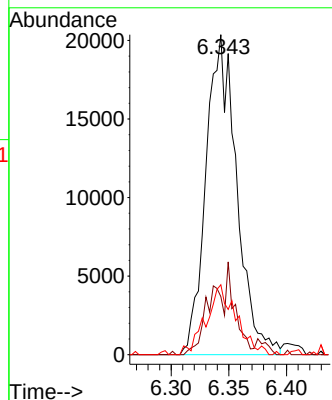
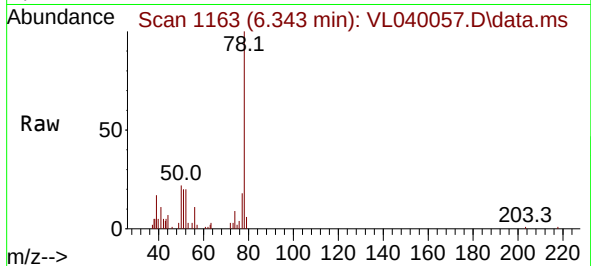
#36  
Benzene  
Concen: 0.180 ppbv  
RT: 6.343 min Scan# 1166  
Delta R.T. -0.010 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tgt Ion: 78 Resp: 3766  
Ion Ratio Lower Upper  
78 100  
77 18.2 17.5 26.3  
50 21.8 14.2 21.2

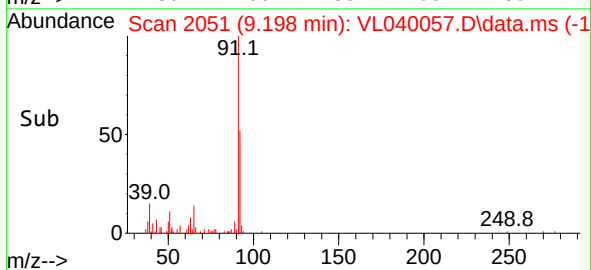
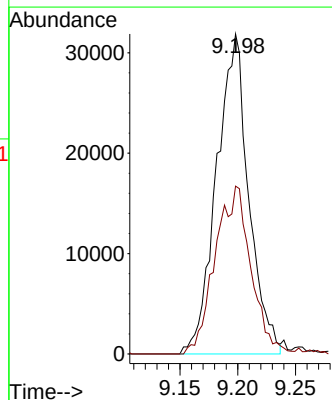
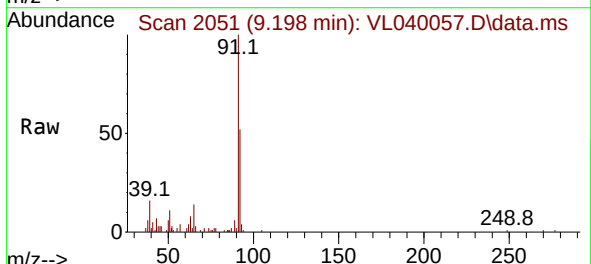
Manual Integrations  
APPROVED

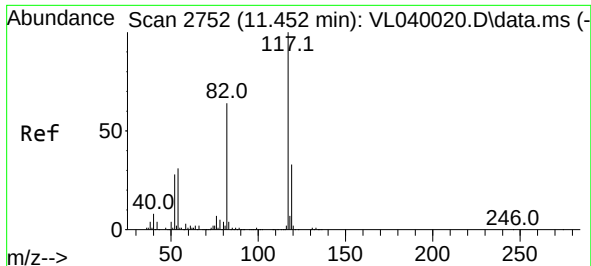
Reviewed By :Semsettin Yesilyurt 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022



#53  
Toluene  
Concen: 0.267 ppbv  
RT: 9.198 min Scan# 2051  
Delta R.T. -0.006 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Tgt Ion: 91 Resp: 61731  
Ion Ratio Lower Upper  
91 100  
92 59.1 48.7 73.1





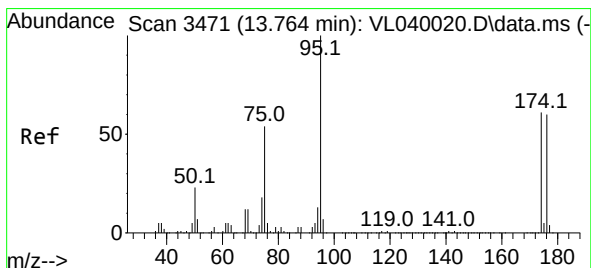
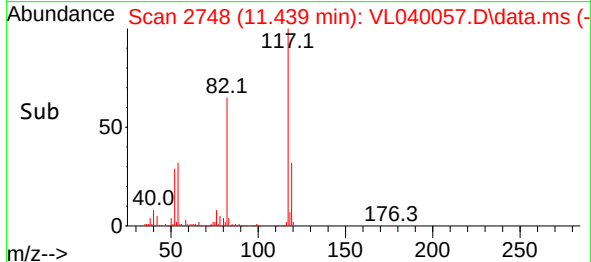
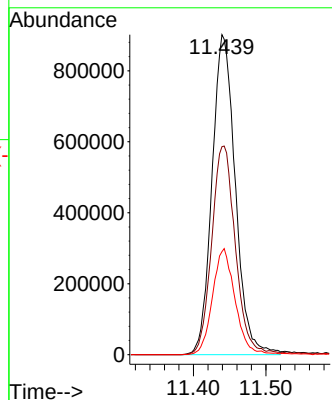
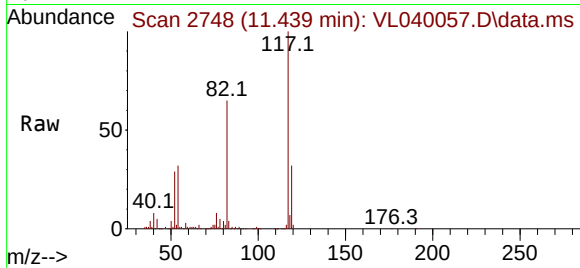
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.439 min Scan# 211754  
Delta R.T. -0.013 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tgt Ion:117 Resp: 2011754  
Ion Ratio Lower Upper  
117 100  
82 67.2 51.2 76.8  
119 32.5 23.2 34.8

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/21/2022  
Supervised By :Mahesh Dadoda 12/21/2022



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.814 ppbv  
RT: 13.751 min Scan# 3467  
Delta R.T. -0.013 min  
Lab File: VL040057.D  
Acq: 20 Dec 2022 15:20

Tgt Ion: 95 Resp: 1508186  
Ion Ratio Lower Upper  
95 100  
174 61.2 48.6 73.0  
175 4.3 3.4 5.2

