

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022123\  
 Data File : VL040211.D  
 Acq On : 22 Feb 2023 1:29  
 Operator : SY/MD  
 Sample : 01627-13 LOD 0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2023

Quant Time: Feb 22 05:11:23 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Feb 22 03:17:31 2023

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/22/2023  
 Supervised By : Mahesh Dadoda 02/23/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 5.189  | 49    | 799890   | 10.000   | ppbv       | -0.02    |
| 33) 1,4-Difluorobenzene       | 6.651  | 114   | 2035993  | 10.000   | ppbv       | -0.02    |
| 55) Chlorobenzene-d5          | 11.468 | 117   | 1801094  | 10.000   | ppbv       | -0.03    |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.780 | 95    | 1487641  | 10.045   | ppbv       | -0.03    |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.400% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 2.726  | 85    | 19184    | 0.129    | ppbv       | 99       |
| 3) Chlorodifluoromethane      | 2.668  | 51    | 11049    | 0.116    | ppbv       | 94       |
| 4) Chloromethane              | 2.809  | 50    | 8098     | 0.135    | ppbv #     | 84       |
| 5) Vinyl Chloride             | 2.915  | 62    | 5291     | 0.110    | ppbv #     | 35       |
| 6) Bromomethane               | 3.111  | 94    | 2336m    | 0.134    | ppbv       |          |
| 7) Chloroethane               | 3.195  | 64    | 2426m    | 0.127    | ppbv       |          |
| 8) Dichlorotetrafluoroethane  | 2.851  | 85    | 13704    | 0.107    | ppbv       | 94       |
| 9) Propene                    | 2.697  | 41    | 5755m    | 0.148    | ppbv       |          |
| 10) Heptane                   | 7.577  | 43    | 6843m    | 0.074    | ppbv       |          |
| 11) Trichlorofluoromethane    | 3.558  | 101   | 15263    | 0.114    | ppbv       | 93       |
| 12) 1,1,2-Trichlorotrifluo... | 4.060  | 101   | 10997    | 0.111    | ppbv       | 93       |
| 13) Ethanol                   | 3.263  | 45    | 1204m    | 0.336    | ppbv       |          |
| 14) Bromoethene               | 3.359  | 108   | 3939m    | 0.104    | ppbv       |          |
| 15) Acetone                   | 3.488  | 43    | 17007    | 0.177    | ppbv #     | 85       |
| 16) 1,3-Butadiene             | 2.976  | 39    | 6339m    | 0.144    | ppbv       |          |
| 17) tert-Butyl alcohol        | 3.909  | 59    | 10729m   | 0.122    | ppbv       |          |
| 18) 1,1-Dichloroethene        | 3.877  | 96    | 5818     | 0.136    | ppbv #     | 55       |
| 19) Isopropyl Alcohol         | 3.594  | 45    | 6591m    | 0.144    | ppbv       |          |
| 20) Methylene Chloride        | 3.928  | 84    | 13749    | 0.274    | ppbv       | 93       |
| 21) Allyl Chloride            | 3.999  | 41    | 6806m    | 0.115    | ppbv       |          |
| 22) trans-1,2-Dichloroethene  | 4.449  | 96    | 4083m    | 0.092    | ppbv       |          |
| 23) Vinyl Acetate             | 4.639  | 43    | 3572m    | 0.122    | ppbv       |          |
| 24) 1,1-Dichloroethane        | 4.558  | 63    | 9049     | 0.099    | ppbv #     | 97       |
| 25) Ethyl Acetate             | 5.211  | 43    | 17287m   | 0.097    | ppbv       |          |
| 26) Hexane                    | 5.208  | 57    | 8149m    | 0.106    | ppbv       |          |
| 27) Carbon Disulfide          | 4.121  | 76    | 8343     | 0.086    | ppbv #     | 25       |
| 28) Methyl tert-Butyl Ether   | 4.607  | 73    | 7335     | 0.089    | ppbv #     | 82       |
| 29) Chloroform                | 5.269  | 83    | 14150    | 0.107    | ppbv #     | 82       |
| 30) Cyclohexane               | 6.597  | 84    | 4407m    | 0.073    | ppbv       |          |
| 31) cis-1,2-Dichloroethene    | 5.079  | 61    | 7666m    | 0.105    | ppbv       |          |
| 32) 1,1,1-Trichloroethane     | 5.996  | 97    | 13171m   | 0.106    | ppbv       |          |
| 34) 2-Butanone                | 4.812  | 43    | 12240m   | 0.122    | ppbv       |          |
| 35) Carbon Tetrachloride      | 6.494  | 117   | 12294m   | 0.102    | ppbv       |          |
| 36) Benzene                   | 6.372  | 78    | 14021m   | 0.088    | ppbv       |          |
| 37) 1,2-Dichloroethane        | 5.806  | 62    | 9913m    | 0.100    | ppbv       |          |
| 38) Trichloroethene           | 7.282  | 130   | 8019m    | 0.092    | ppbv       |          |
| 39) 1,2-Dichloropropane       | 7.066  | 63    | 6816m    | 0.111    | ppbv       |          |
| 40) 1,4-Dioxane               | 7.340  | 88    | 2243m    | 0.091    | ppbv       |          |
| 41) Tetrahydrofuran           | 5.587  | 42    | 4903m    | 0.084    | ppbv       |          |
| 42) Bromodichloromethane      | 7.250  | 83    | 12733m   | 0.093    | ppbv       |          |
| 43) Methyl Methacrylate       | 7.491  | 69    | 3731m    | 0.064    | ppbv       |          |
| 44) 2,2,4-Trimethylpentane    | 7.327  | 57    | 19818m   | 0.075    | ppbv       |          |
| 45) t-1,3-Dichloropropene     | 8.729  | 75    | 2564m    | 0.049    | ppbv       |          |

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 Operator : SY/MD  
 Sample : 01627-13 LOD 0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2023

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023

Quant Time: Feb 22 05:11:23 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Feb 22 03:17:31 2023

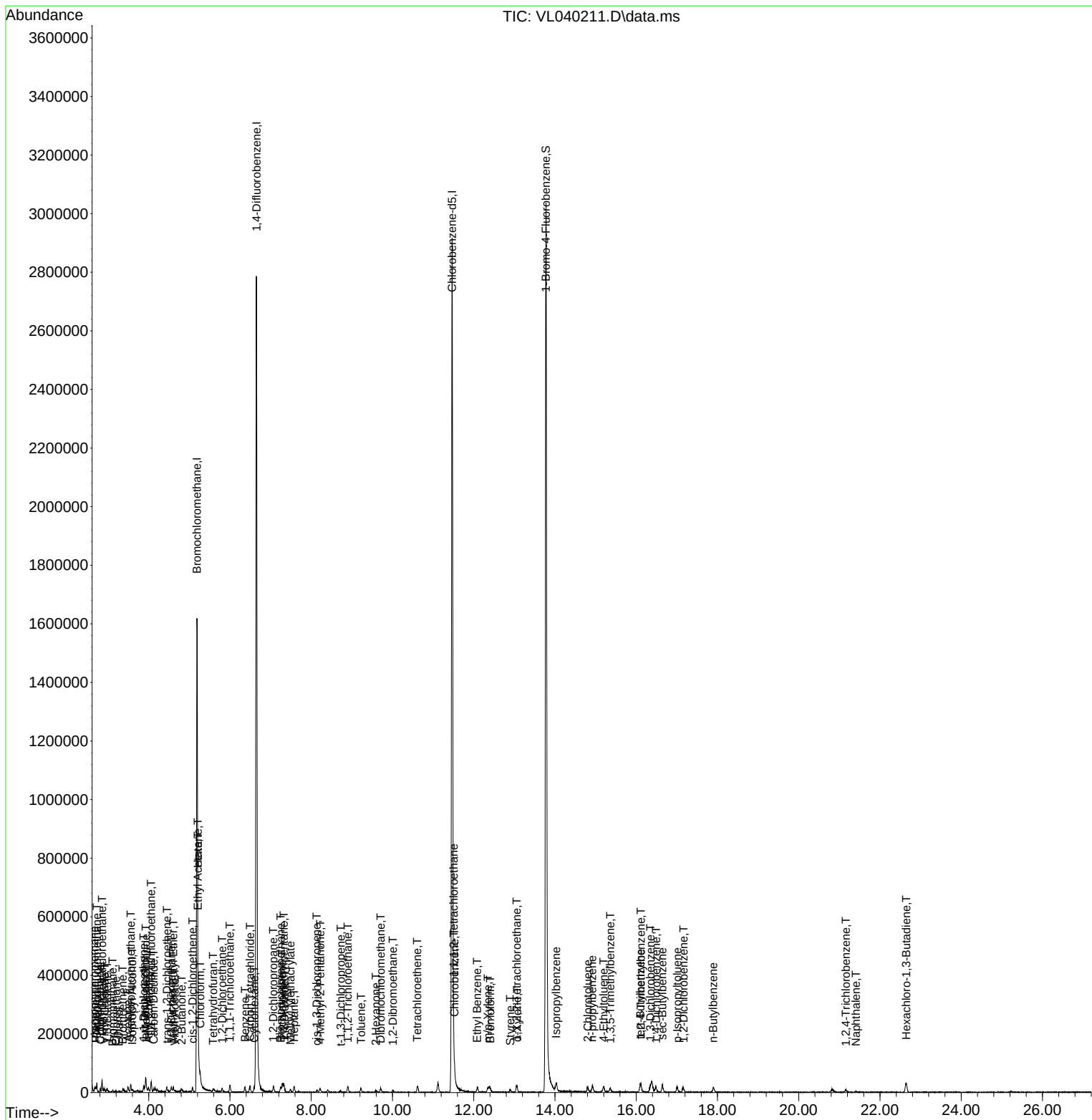
Response via : Initial Calibration

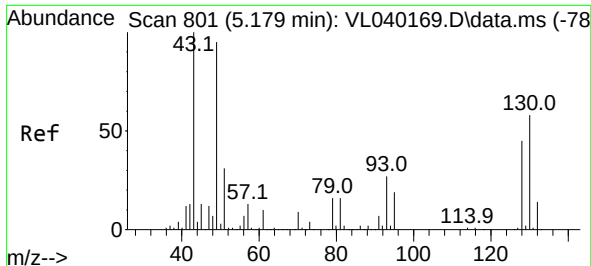
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.137  | 75   | 4979m    | 0.069 | ppbv  |          |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 6533m    | 0.098 | ppbv  |          |
| 48) Dibromochloromethane      | 9.709  | 129  | 8177m    | 0.077 | ppbv  |          |
| 49) Bromoform                 | 12.407 | 173  | 5683m    | 0.068 | ppbv  |          |
| 50) 4-Methyl-2-Pentanone      | 8.224  | 43   | 11166m   | 0.072 | ppbv  |          |
| 51) 2-Hexanone                | 9.590  | 43   | 7271m    | 0.061 | ppbv  |          |
| 52) Tetrachloroethene         | 10.613 | 164  | 4906m    | 0.099 | ppbv  |          |
| 53) Toluene                   | 9.227  | 91   | 11005m   | 0.065 | ppbv  |          |
| 54) 1,2-Dibromoethane         | 10.011 | 107  | 5621m    | 0.081 | ppbv  |          |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 7650m    | 0.101 | ppbv  |          |
| 57) Chlorobenzene             | 11.526 | 112  | 14766m   | 0.112 | ppbv  |          |
| 58) Ethyl Benzene             | 12.085 | 91   | 13526m   | 0.062 | ppbv  |          |
| 59) m/p-Xylene                | 12.346 | 91   | 22383m   | 0.115 | ppbv  |          |
| 60) o-Xylene                  | 13.069 | 91   | 10987m   | 0.059 | ppbv  |          |
| 61) Styrene                   | 12.902 | 104  | 4642m    | 0.047 | ppbv  |          |
| 62) Isopropylbenzene          | 14.031 | 105  | 20450m   | 0.076 | ppbv  |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.056 | 83   | 6541m    | 0.097 | ppbv  |          |
| 64) n-propylbenzene           | 14.915 | 120  | 3828m    | 0.058 | ppbv  |          |
| 65) tert-Butylbenzene         | 16.101 | 119  | 14118m   | 0.061 | ppbv  |          |
| 67) sec-Butylbenzene          | 16.641 | 105  | 18797m   | 0.056 | ppbv  |          |
| 69) p-Isopropyltoluene        | 17.011 | 119  | 13251m   | 0.050 | ppbv  |          |
| 70) n-Butylbenzene            | 17.895 | 91   | 15383m   | 0.054 | ppbv  |          |
| 71) 2-Chlorotoluene           | 14.809 | 91   | 14484m   | 0.071 | ppbv  |          |
| 72) 4-Ethyltoluene            | 15.201 | 105  | 11869m   | 0.058 | ppbv  |          |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 11481m   | 0.060 | ppbv  |          |
| 74) 1,2,4-Trimethylbenzene    | 16.117 | 105  | 11112m   | 0.053 | ppbv  |          |
| 75) 1,3-Dichlorobenzene       | 16.349 | 146  | 9193m    | 0.080 | ppbv  |          |
| 76) 1,4-Dichlorobenzene       | 16.490 | 146  | 8960m    | 0.079 | ppbv  |          |
| 77) 1,2-Dichlorobenzene       | 17.162 | 146  | 9015m    | 0.079 | ppbv  |          |
| 78) Hexachloro-1,3-Butadiene  | 22.648 | 225  | 7425m    | 0.094 | ppbv  |          |
| 79) Naphthalene               | 21.407 | 128  | 4405m    | 0.037 | ppbv  |          |
| 81) 1,2,4-Trichlorobenzene    | 21.162 | 180  | 3886m    | 0.052 | ppbv  |          |

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

## Manual Integrations

Quant Time: Feb 22 05:11:23 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021523AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Feb 22 03:17:31 2023  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.189 min Scan# 80

Delta R.T. -0.016 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

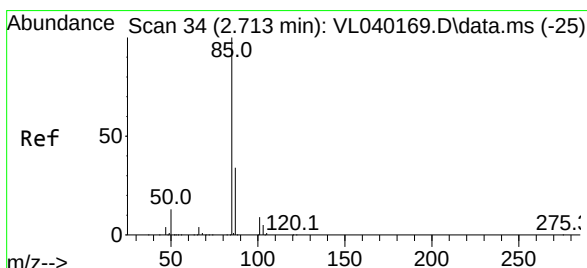
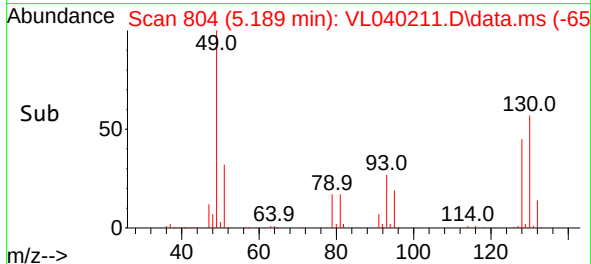
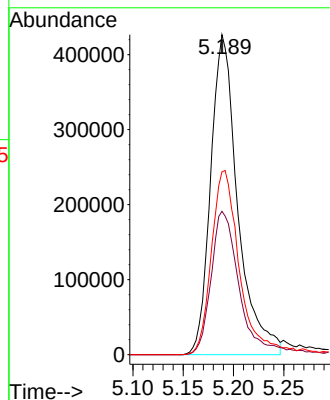
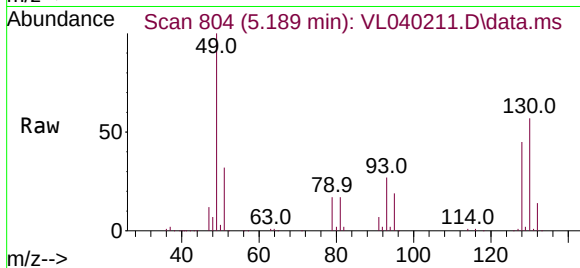
LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 49 Resp: 799890  
 Ion Ratio Lower Upper  
 49 100  
 128 47.8 24.1 72.3  
 130 62.5 30.9 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



#2

Dichlorodifluoromethane

Concen: 0.129 ppbv

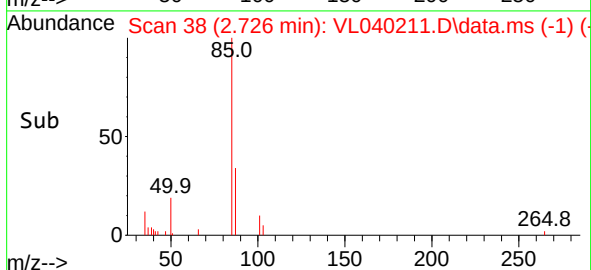
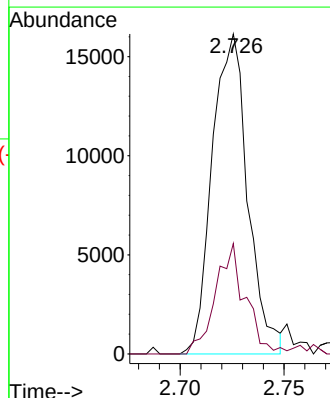
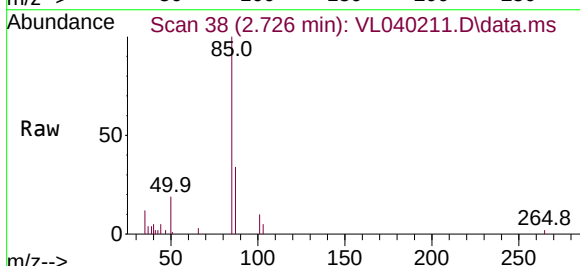
RT: 2.726 min Scan# 38

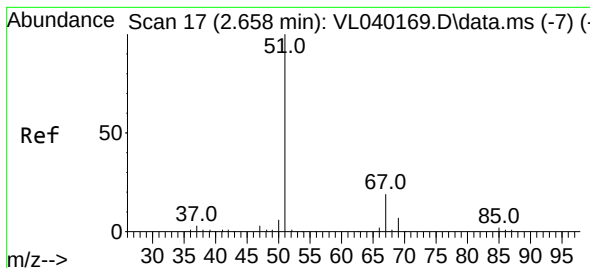
Delta R.T. -0.003 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Tgt Ion: 85 Resp: 19184  
 Ion Ratio Lower Upper  
 85 100  
 87 34.5 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.116 ppbv

RT: 2.668 min Scan# 20

Delta R.T. -0.007 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 51 Resp: 11049

Ion Ratio Lower Upper

51 100

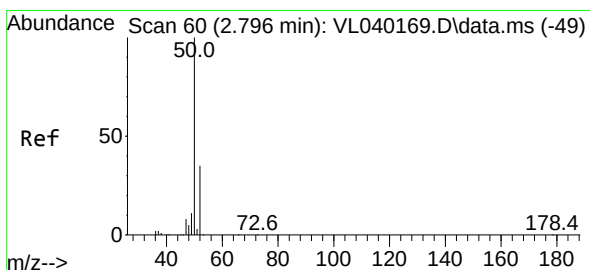
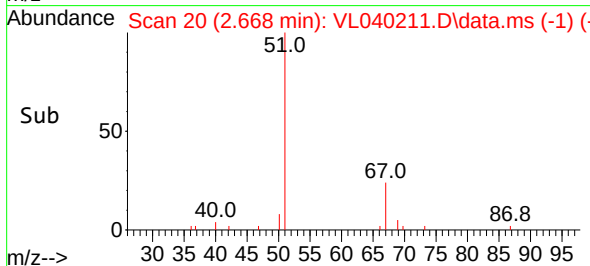
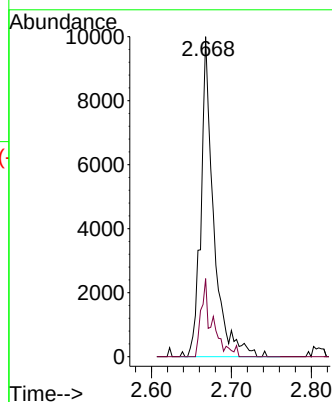
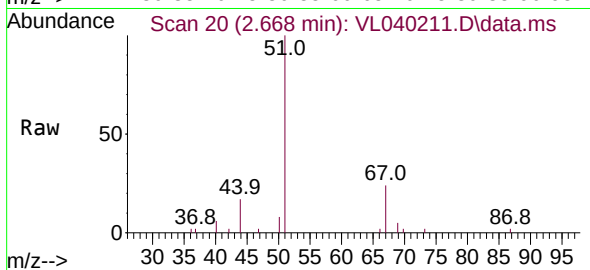
67 21.9 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023

Supervised By :Mahesh Dadoda 02/23/2023



#4

Chloromethane

Concen: 0.135 ppbv

RT: 2.809 min Scan# 64

Delta R.T. -0.003 min

Lab File: VL040211.D

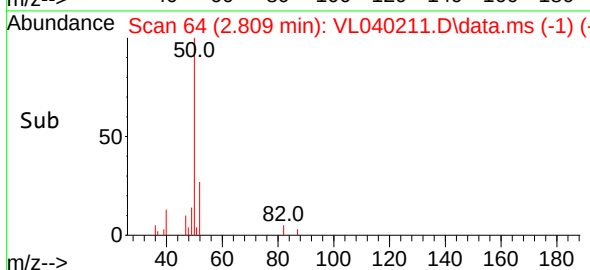
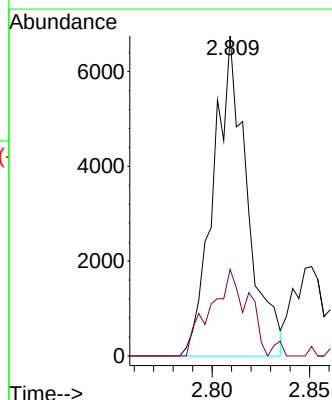
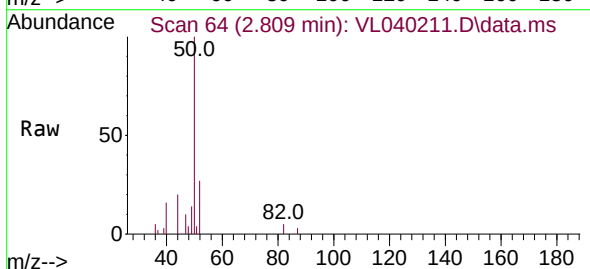
Acq: 22 Feb 2023 1:29

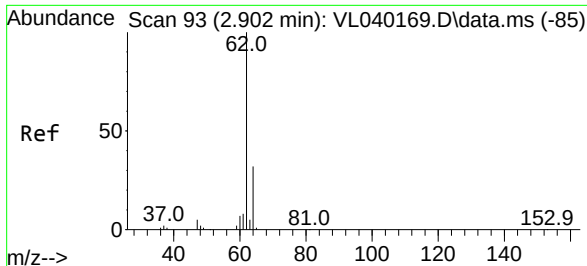
Tgt Ion: 50 Resp: 8098

Ion Ratio Lower Upper

50 100

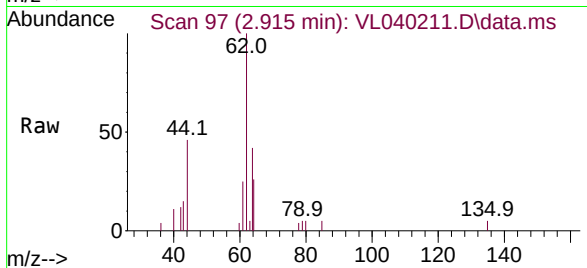
52 26.0 28.3 42.5#





#5  
 Vinyl Chloride  
 Concen: 0.110 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. -0.007 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29

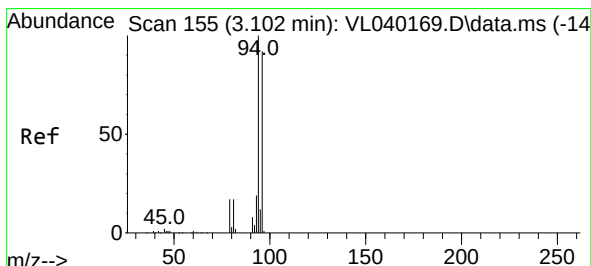
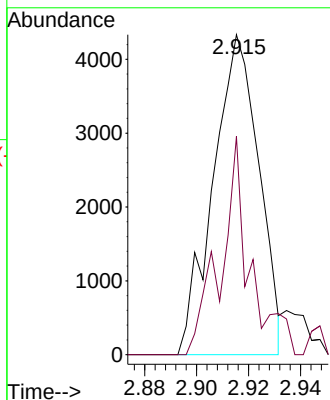
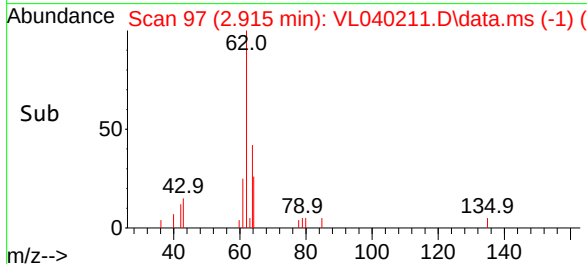
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 62 Resp: 529  
 Ion Ratio Lower Upper  
 62 100  
 64 68.2 25.6 38.4

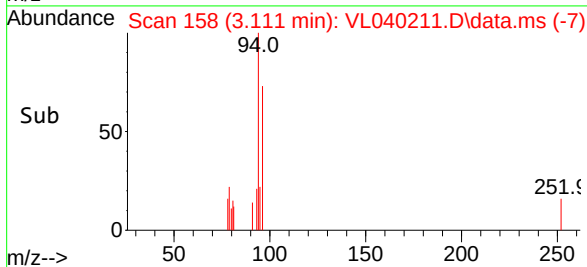
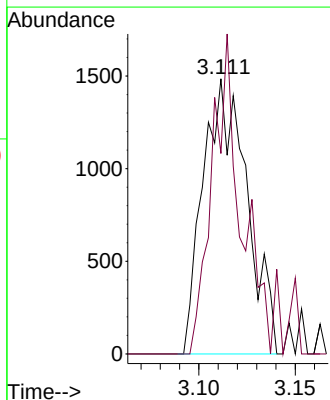
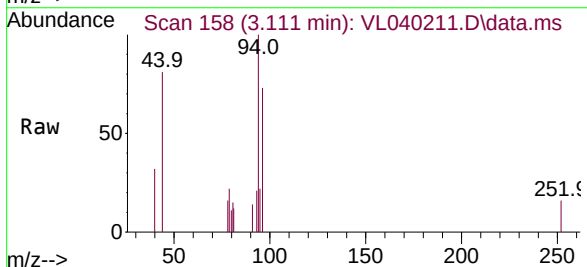
Manual Integrations  
 APPROVED

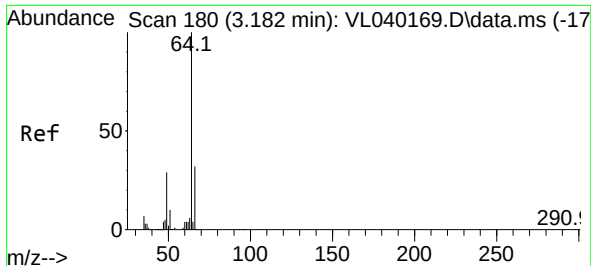
Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



#6  
 Bromomethane  
 Concen: 0.134 ppbv m  
 RT: 3.111 min Scan# 158  
 Delta R.T. -0.013 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29

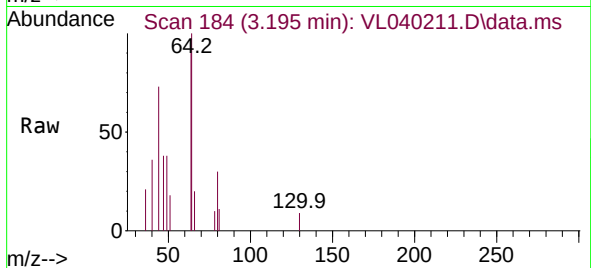
Tgt Ion: 94 Resp: 2336  
 Ion Ratio Lower Upper  
 94 100  
 96 72.9 73.4 110.2





#7  
Chloroethane  
Concen: 0.127 ppbv m  
RT: 3.195 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

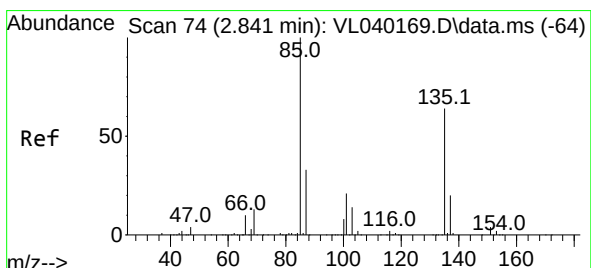
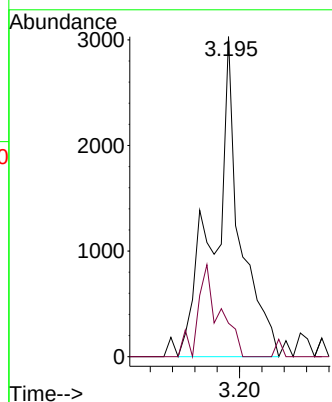
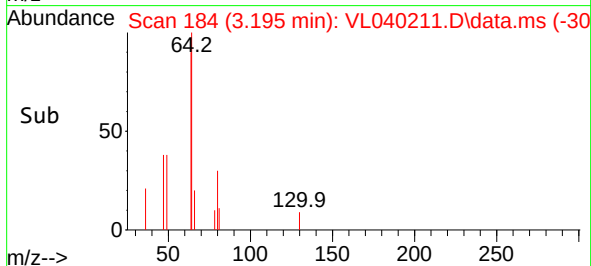
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 64 Resp: 2420  
Ion Ratio Lower Upper  
64 100  
66 19.9 25.4 38.2

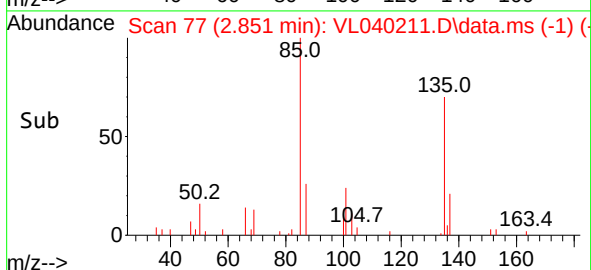
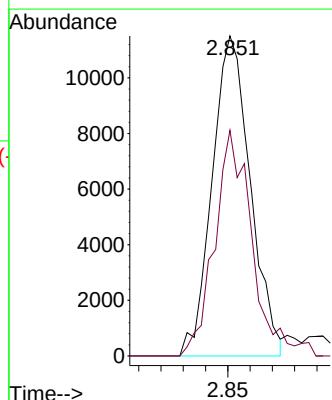
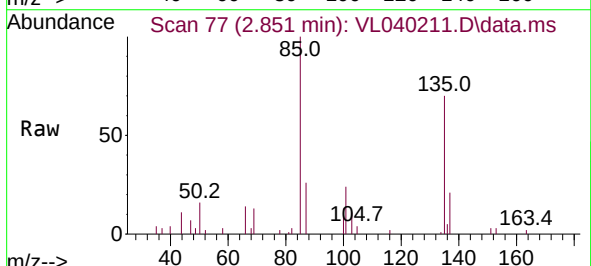
Manual Integrations  
APPROVED

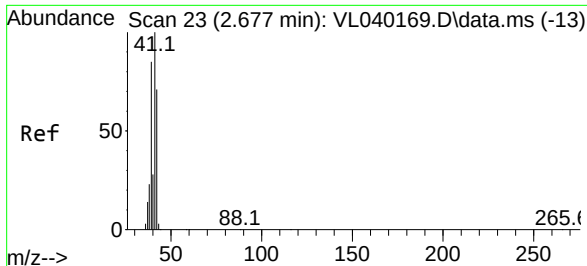
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#8  
Dichlorotetrafluoroethane  
Concen: 0.107 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. -0.007 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

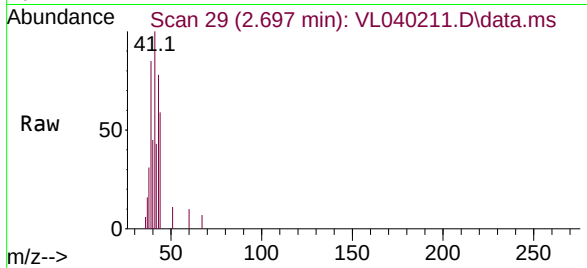
Tgt Ion: 85 Resp: 13704  
Ion Ratio Lower Upper  
85 100  
135 69.4 51.5 77.3





#9  
 Propene  
 Concen: 0.148 ppbv m  
 RT: 2.697 min Scan# 29  
 Delta R.T. 0.003 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29

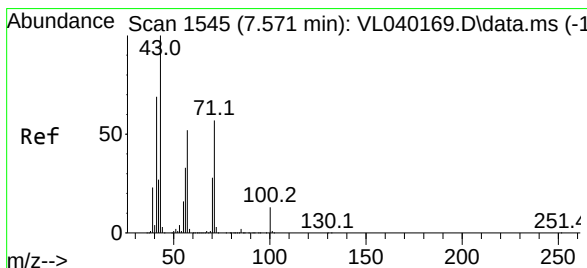
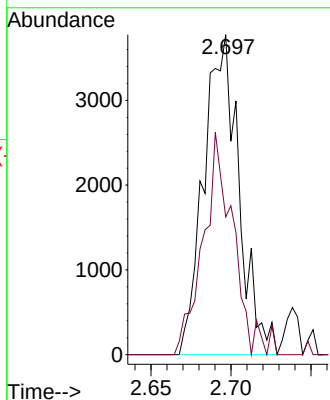
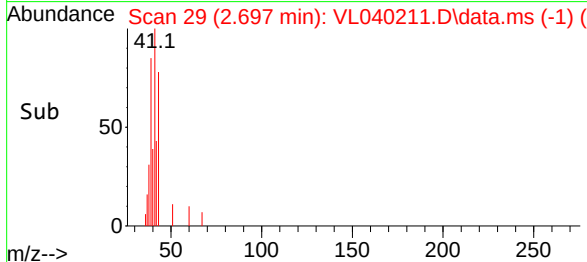
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2023



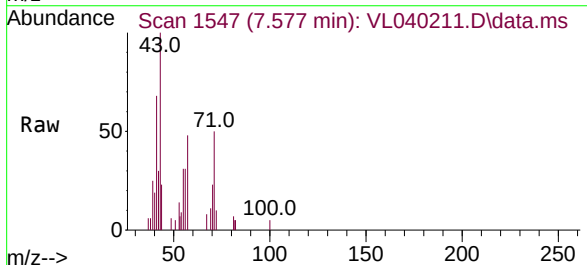
Tgt Ion: 41 Resp: 575  
 Ion Ratio Lower Upper  
 41 100  
 42 58.2 56.9 85.3

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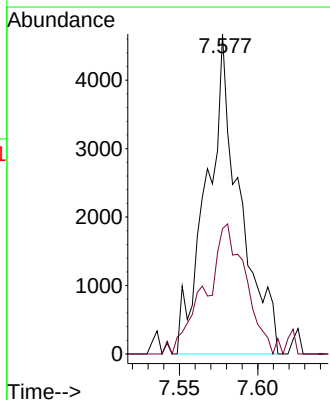
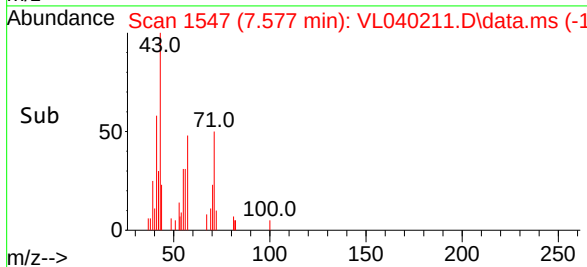
Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



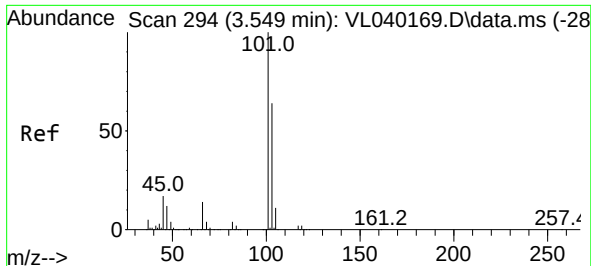
#10  
 Heptane  
 Concen: 0.074 ppbv m  
 RT: 7.577 min Scan# 1547  
 Delta R.T. -0.026 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29



Tgt Ion: 43 Resp: 6843  
 Ion Ratio Lower Upper  
 43 100  
 57 51.8 41.4 62.2

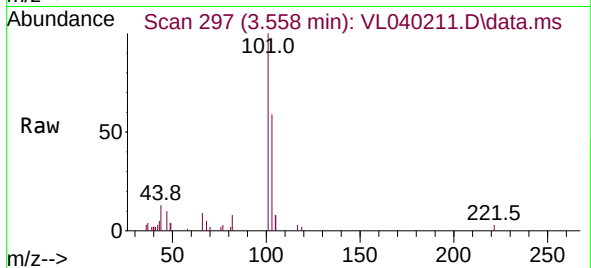






#11  
Trichlorofluoromethane  
Concen: 0.114 ppbv  
RT: 3.558 min Scan# 294  
Delta R.T. -0.010 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

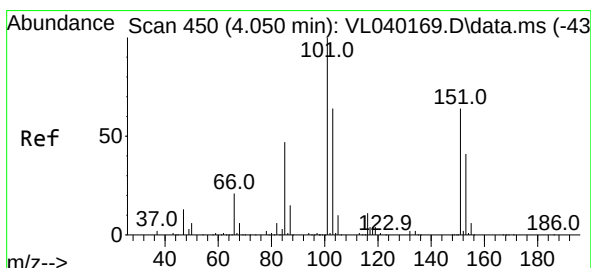
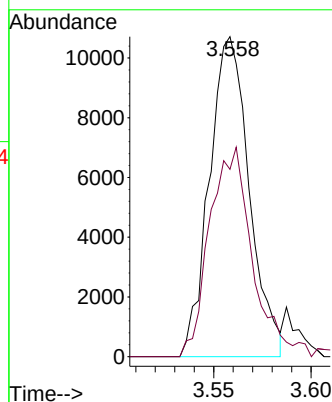
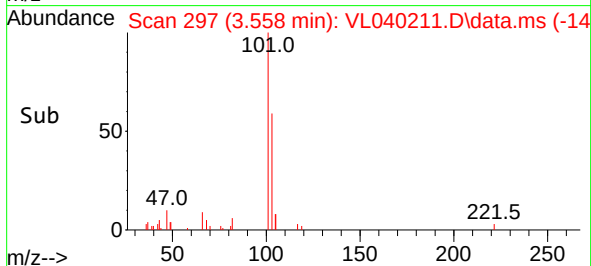
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion:101 Resp: 1526  
Ion Ratio Lower Upper  
101 100  
103 58.6 51.0 76.6

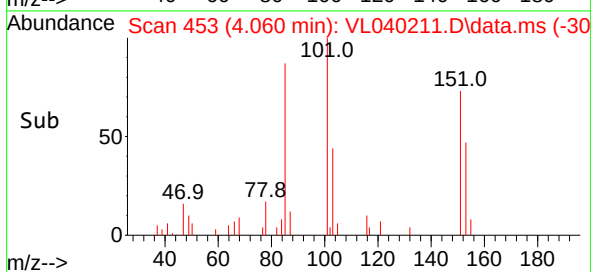
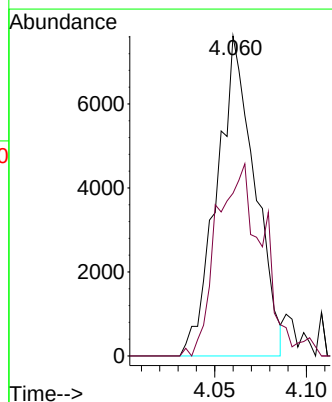
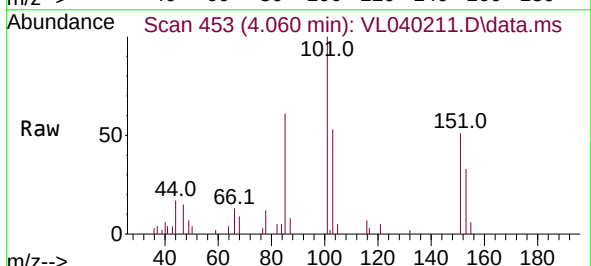
Manual Integrations  
APPROVED

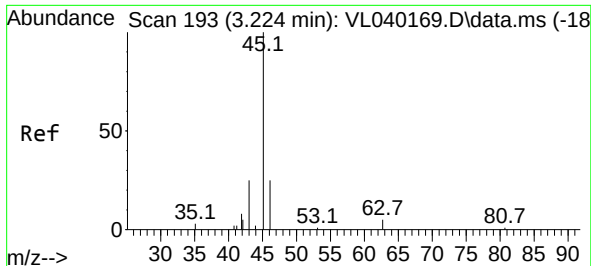
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.111 ppbv  
RT: 4.060 min Scan# 453  
Delta R.T. -0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

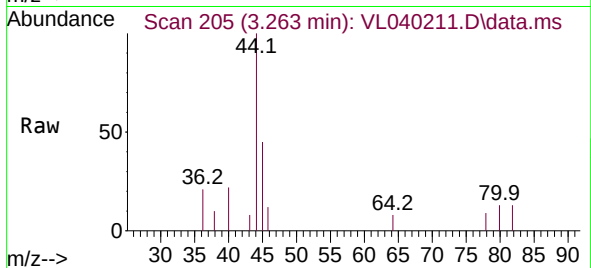
Tgt Ion:101 Resp: 10997  
Ion Ratio Lower Upper  
101 100  
151 73.8 54.7 82.1





#13  
Ethanol  
Concen: 0.336 ppbv m  
RT: 3.263 min Scan# 205  
Delta R.T. 0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

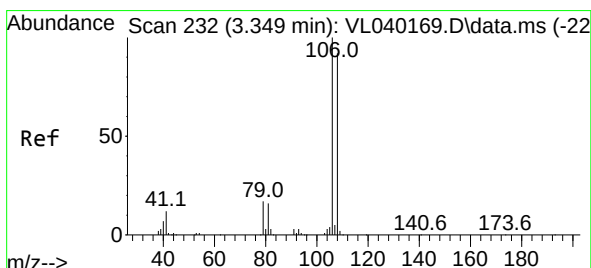
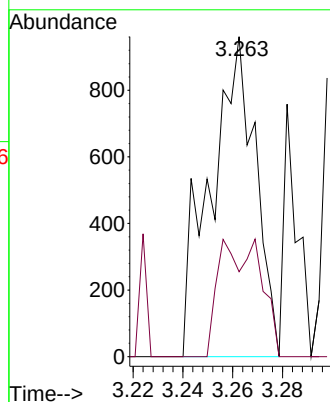
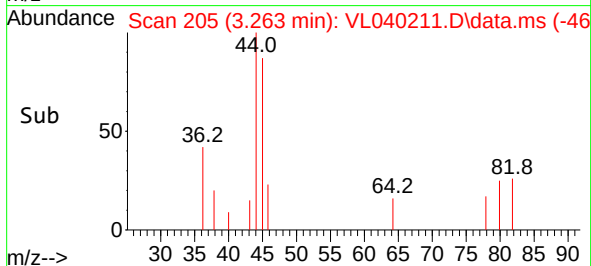
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



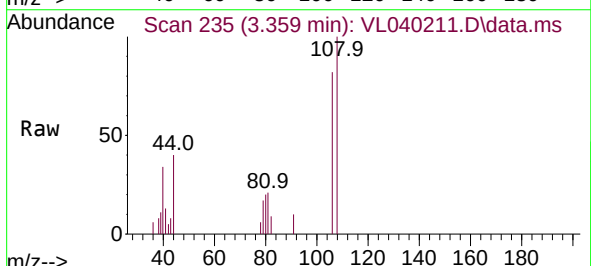
Tgt Ion: 45 Resp: 1204  
Ion Ratio Lower Upper  
45 100  
46 5.9 13.3 53.1

Manual Integrations  
APPROVED

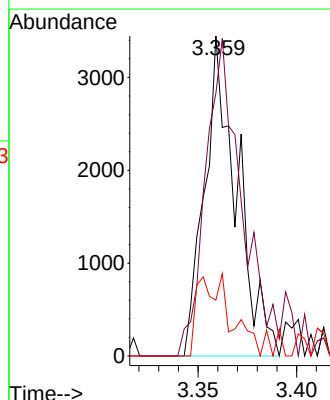
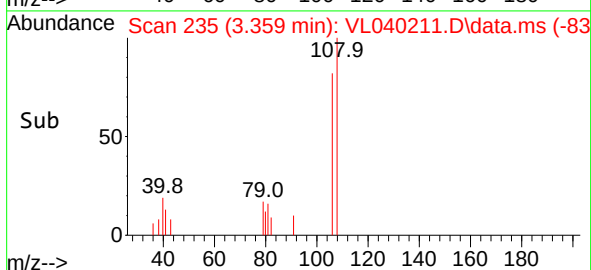
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023

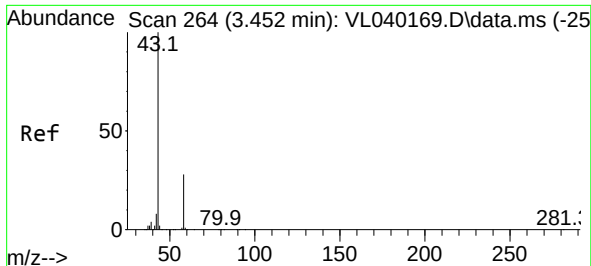


#14  
Bromoethene  
Concen: 0.104 ppbv m  
RT: 3.359 min Scan# 235  
Delta R.T. -0.010 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29



Tgt Ion:108 Resp: 3939  
Ion Ratio Lower Upper  
108 100  
106 121.1 87.1 130.7  
79 25.5 15.4 23.2#





#15

Acetone

Concen: 0.177 ppbv

RT: 3.488 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

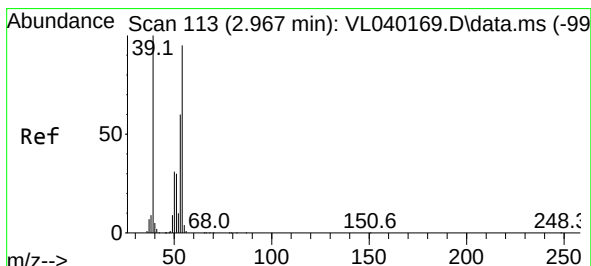
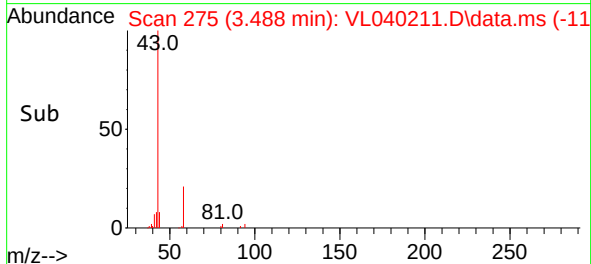
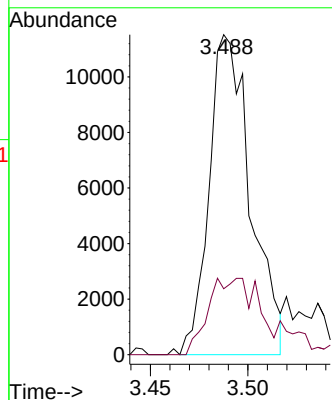
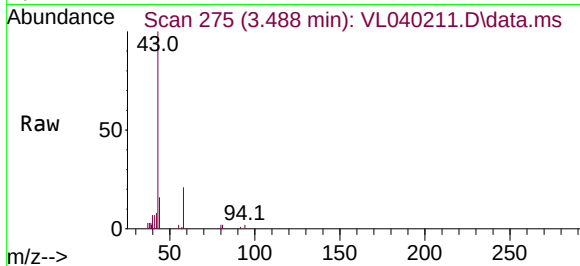
ClientSampleId :

LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 43 Resp: 1700  
 Ion Ratio Lower Upper  
 43 100  
 58 35.9 22.4 33.6

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



#16

1,3-Butadiene

Concen: 0.144 ppbv m

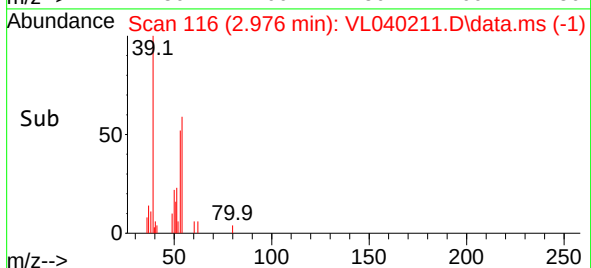
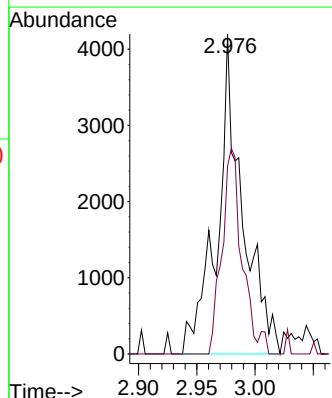
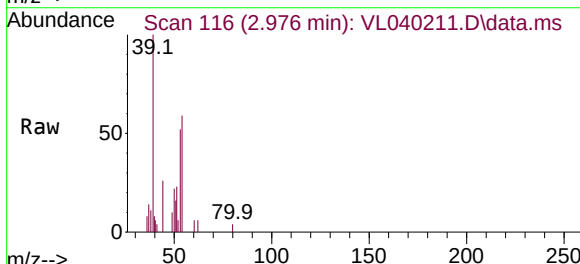
RT: 2.976 min Scan# 116

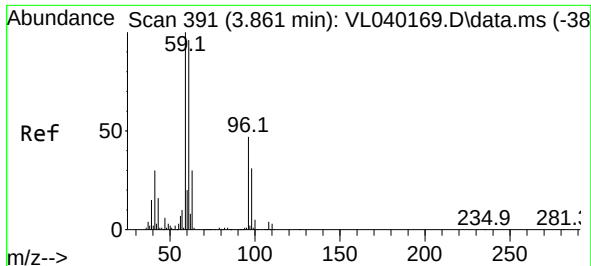
Delta R.T. -0.010 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

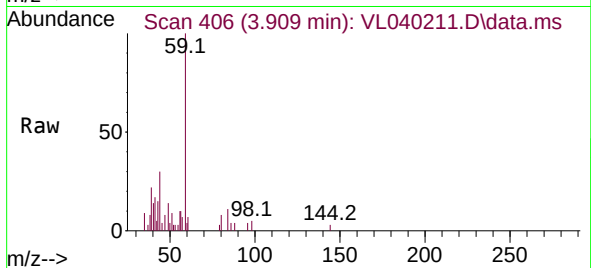
Tgt Ion: 39 Resp: 6339  
 Ion Ratio Lower Upper  
 39 100  
 54 51.3 66.7 100.1





#17  
tert-Butyl alcohol  
Concen: 0.122 ppbv m  
RT: 3.909 min Scan# 406  
Delta R.T. 0.022 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

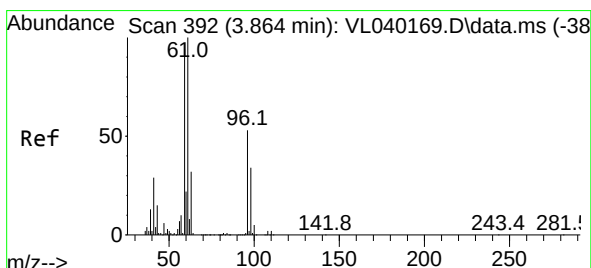
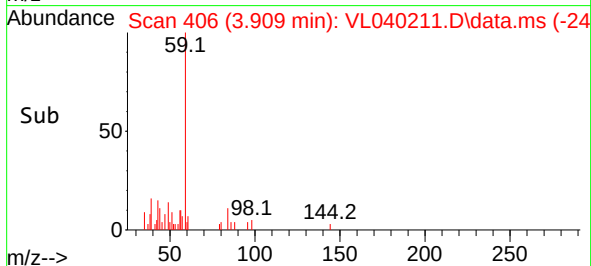
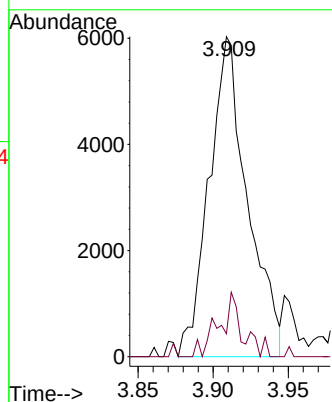
Instrument :  
MSVOA\_1  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 59 Resp: 10729  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7

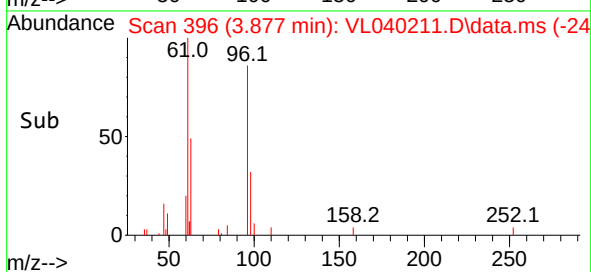
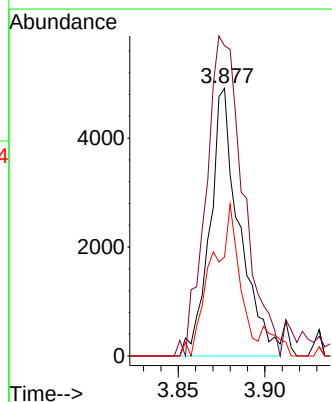
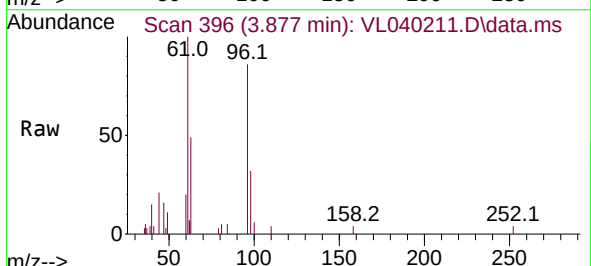
Manual Integrations  
APPROVED

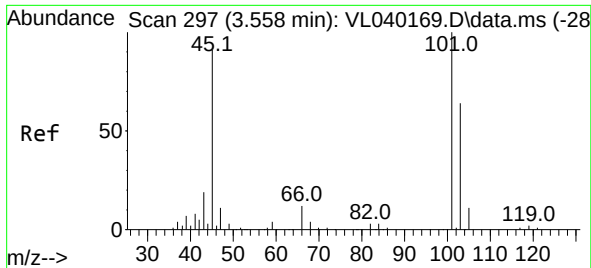
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#18  
1,1-Dichloroethene  
Concen: 0.136 ppbv  
RT: 3.877 min Scan# 396  
Delta R.T. -0.010 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion: 96 Resp: 5818  
Ion Ratio Lower Upper  
96 100  
61 115.9 149.6 224.4#  
98 37.0 51.1 76.7#





#19

Isopropyl Alcohol

Concen: 0.144 ppbv m

RT: 3.594 min Scan# 308

Delta R.T. 0.013 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

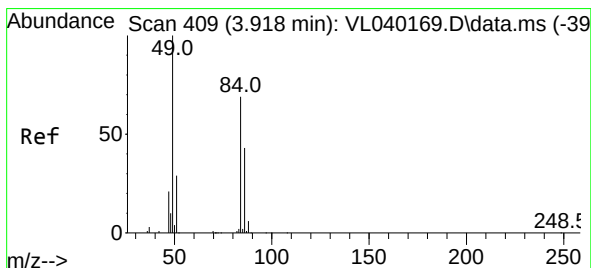
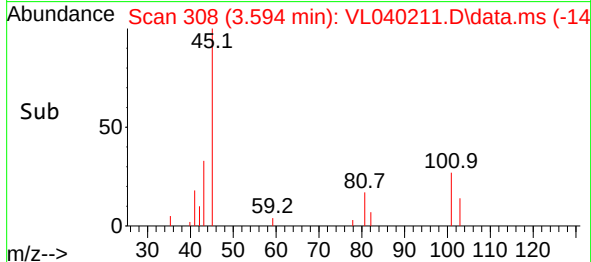
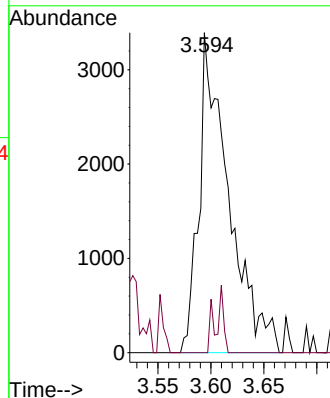
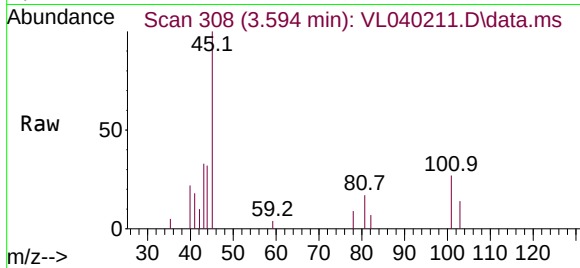
LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 45 Resp: 659  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 2.6 3.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



#20

Methylene Chloride

Concen: 0.274 ppbv

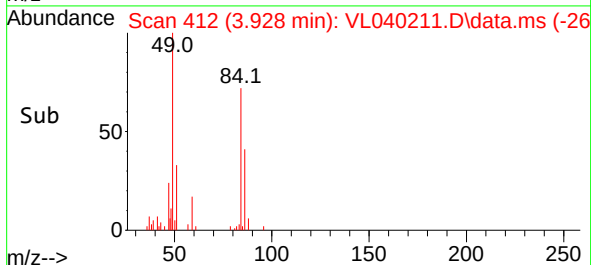
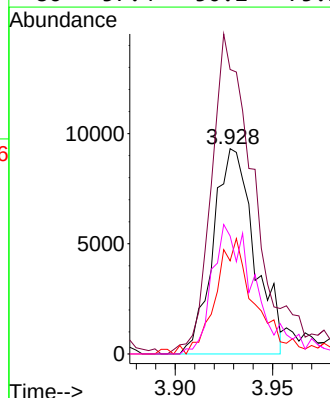
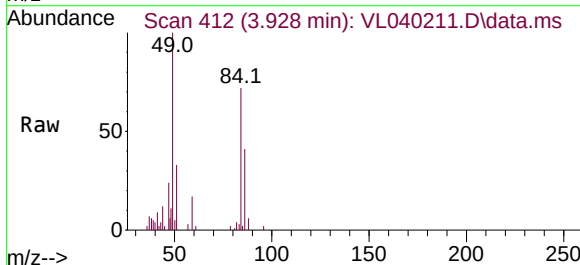
RT: 3.928 min Scan# 412

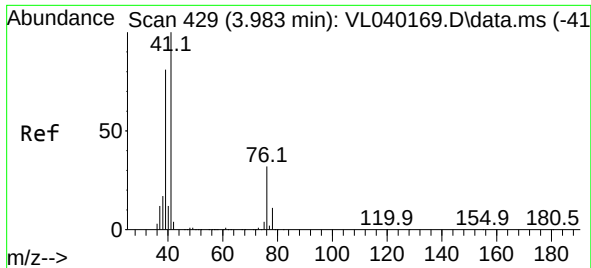
Delta R.T. -0.010 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

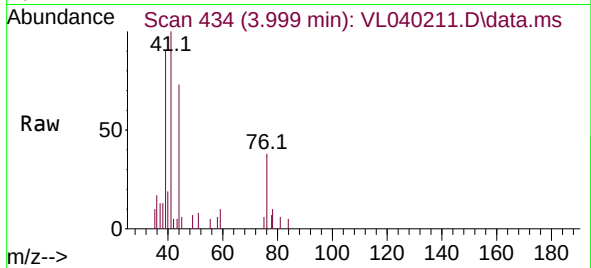
Tgt Ion: 84 Resp: 13749  
 Ion Ratio Lower Upper  
 84 100  
 49 134.2 115.5 173.3  
 51 41.3 33.1 49.7  
 86 57.4 50.2 75.2





#21  
 Allyl Chloride  
 Concen: 0.115 ppbv m  
 RT: 3.999 min Scan# 411  
 Delta R.T. -0.003 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29

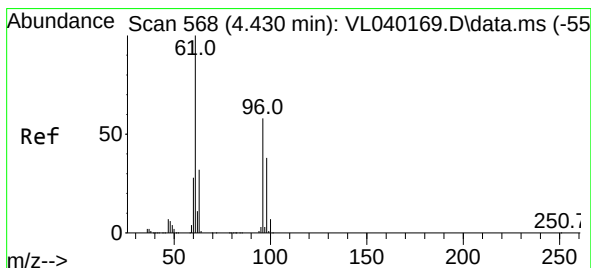
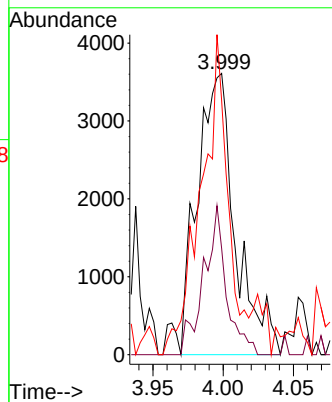
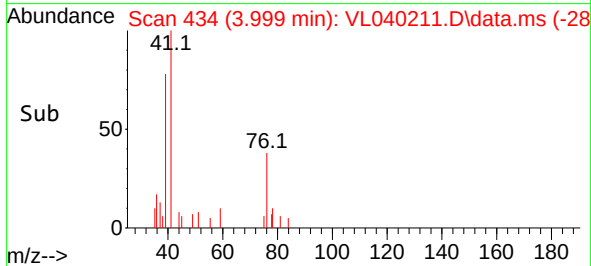
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 41 Resp: 6800  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 25.5 38.3  
 39 0.0 64.5 96.7

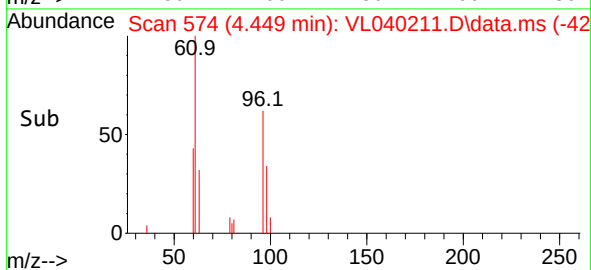
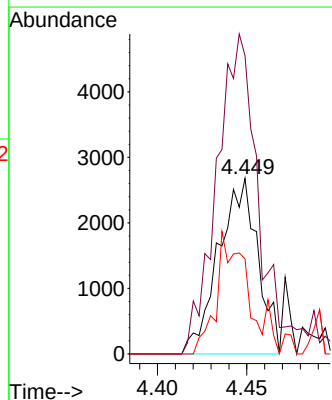
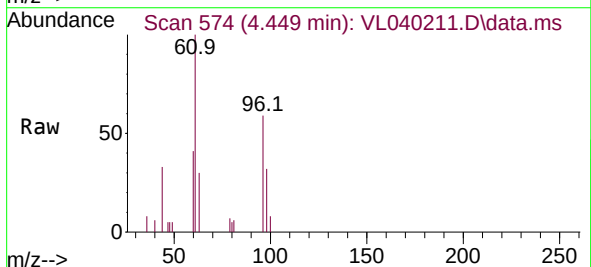
Manual Integrations  
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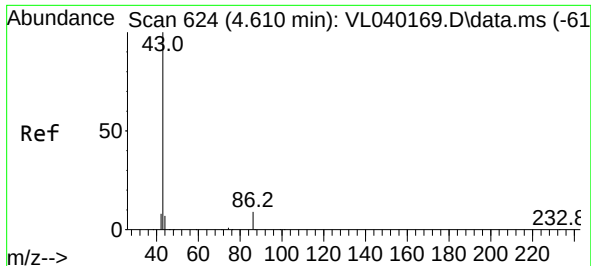
Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.092 ppbv m  
 RT: 4.449 min Scan# 574  
 Delta R.T. -0.007 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29

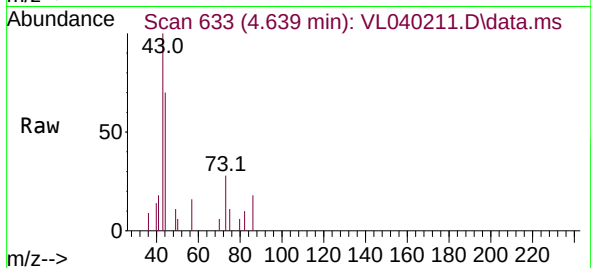
Tgt Ion: 96 Resp: 4083  
 Ion Ratio Lower Upper  
 96 100  
 61 170.1 137.5 206.3  
 98 54.2 52.8 79.2





#23  
 Vinyl Acetate  
 Concen: 0.122 ppbv m  
 RT: 4.639 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29

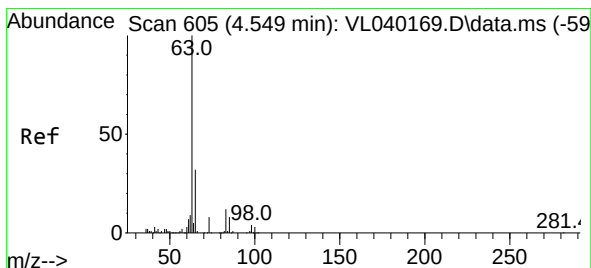
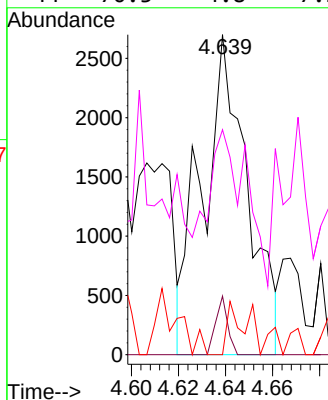
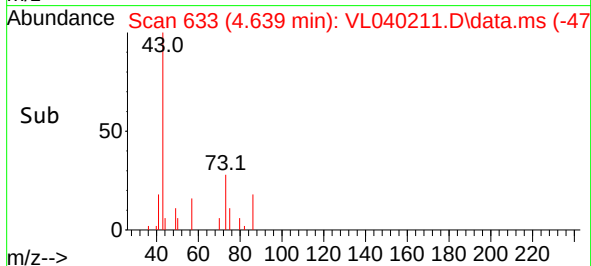
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2023



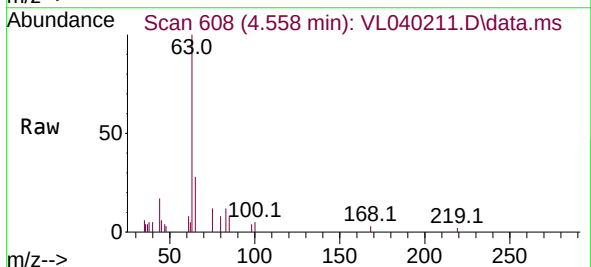
Tgt Ion: 43 Resp: 3572  
 Ion Ratio Lower Upper  
 43 100  
 86 18.3 5.6 8.4  
 42 0.0 7.6 11.4  
 44 70.3 4.8 7.2#

Manual Integrations  
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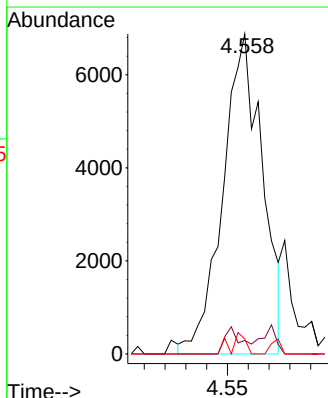
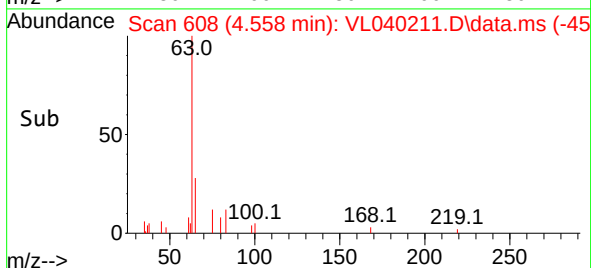
Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023

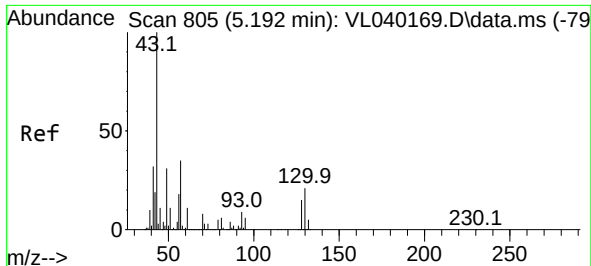


#24  
 1,1-Dichloroethane  
 Concen: 0.099 ppbv  
 RT: 4.558 min Scan# 608  
 Delta R.T. -0.016 min  
 Lab File: VL040211.D  
 Acq: 22 Feb 2023 1:29



Tgt Ion: 63 Resp: 9049  
 Ion Ratio Lower Upper  
 63 100  
 98 4.3 2.3 6.8  
 100 4.8 1.4 4.0#





#25

Ethyl Acetate

Concen: 0.097 ppbv m

RT: 5.211 min Scan# 811

Delta R.T. -0.007 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

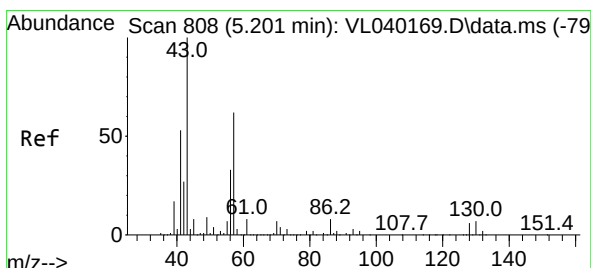
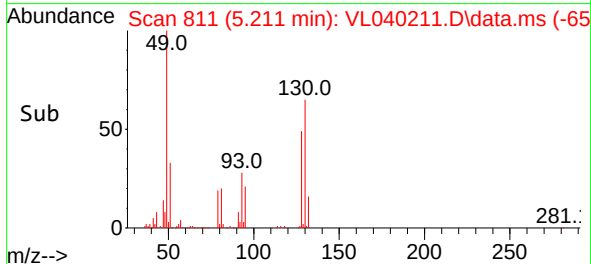
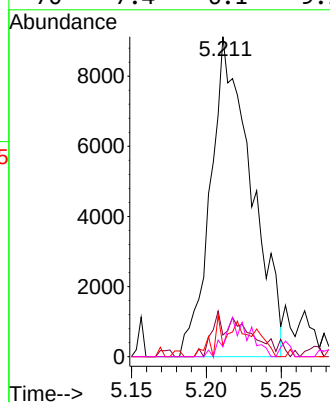
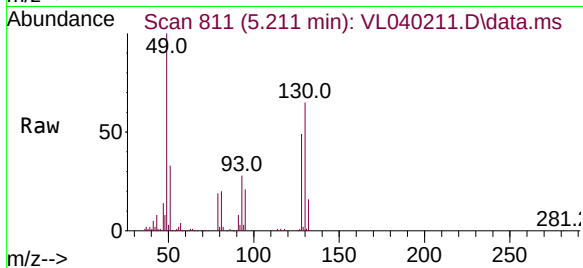
LOD-MDL-AIR-01-QT1-2023

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1728  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 13.2     | 8.3 12.5    |
| 61 10.4     | 8.4 12.6    |
| 70 7.4      | 6.1 9.1     |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#26

Hexane

Concen: 0.106 ppbv m

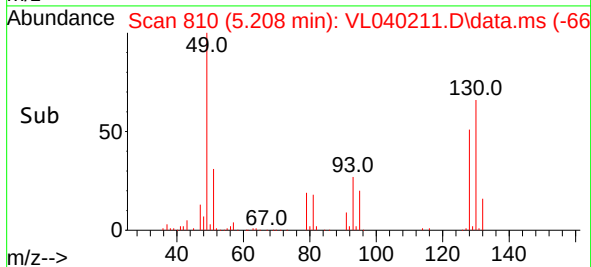
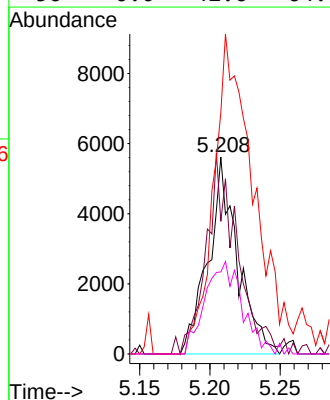
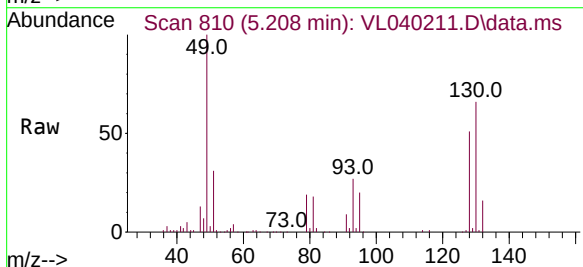
RT: 5.208 min Scan# 810

Delta R.T. -0.016 min

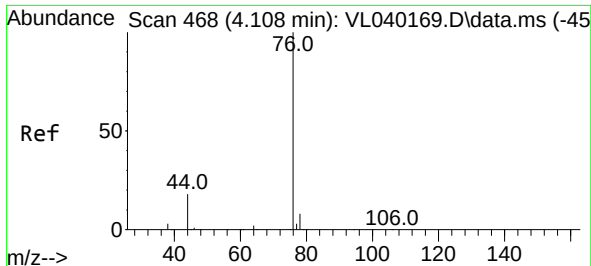
Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 8149   |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 111.8    | 74.3 111.5#  |
| 43 0.0      | 193.0 289.4# |
| 56 0.0      | 42.6 64.0#   |

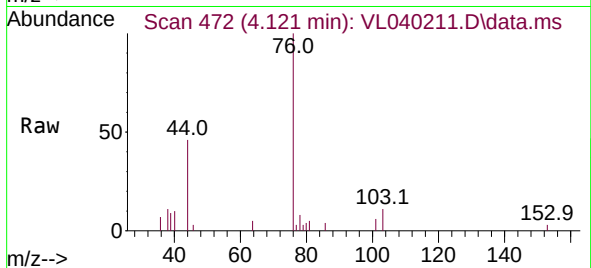






#27  
Carbon Disulfide  
Concen: 0.086 ppbv  
RT: 4.121 min Scan# 411  
Delta R.T. -0.010 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

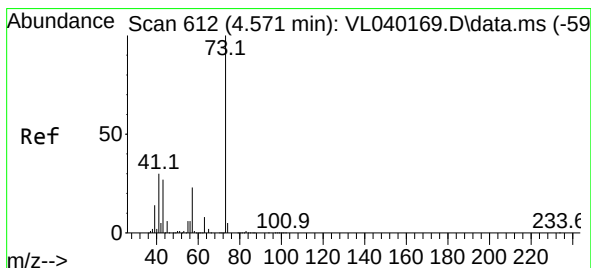
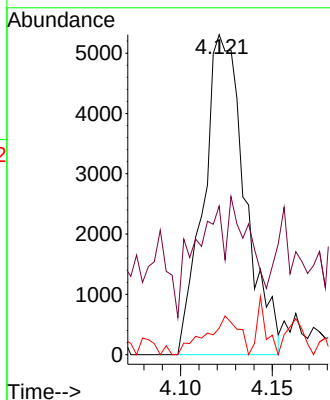
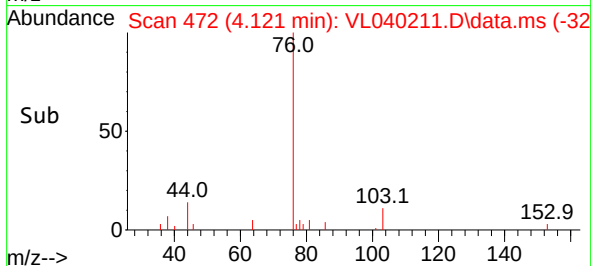
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 76 Resp: 834  
Ion Ratio Lower Upper  
76 100  
44 70.1 15.3 22.9  
78 9.9 7.7 11.5

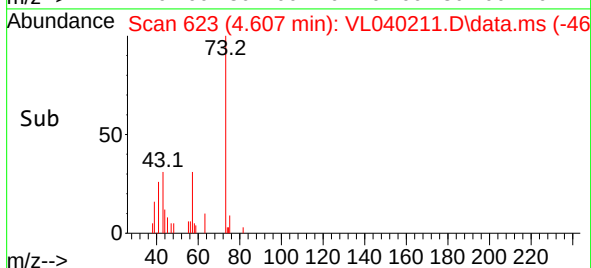
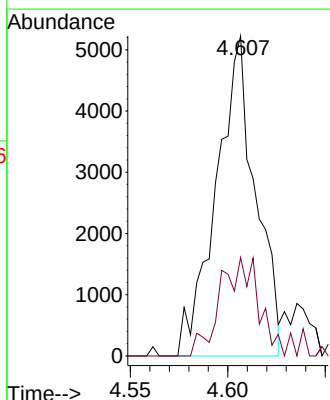
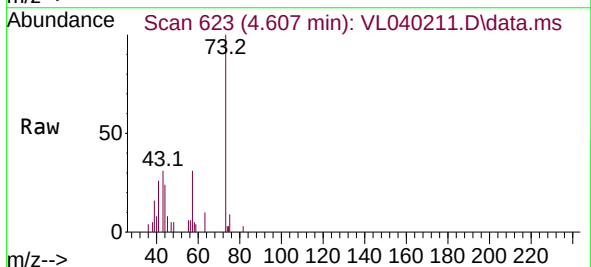
Manual Integrations  
APPROVED

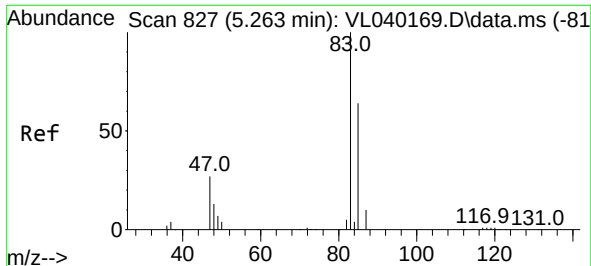
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#28  
Methyl tert-Butyl Ether  
Concen: 0.089 ppbv  
RT: 4.607 min Scan# 623  
Delta R.T. 0.010 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion: 73 Resp: 7335  
Ion Ratio Lower Upper  
73 100  
57 32.5 18.8 28.2#





#29

Chloroform

Concen: 0.107 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.019 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

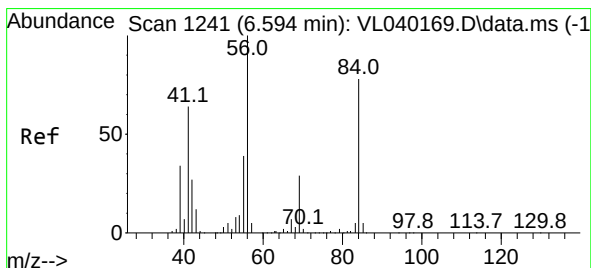
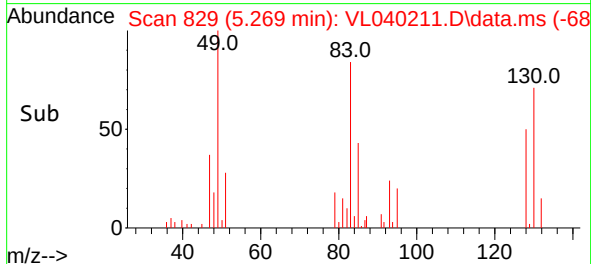
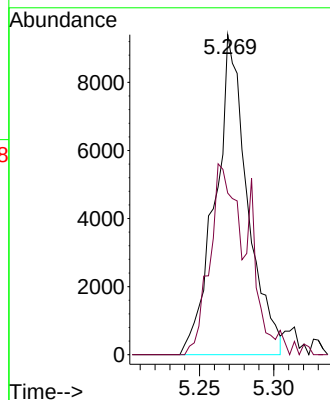
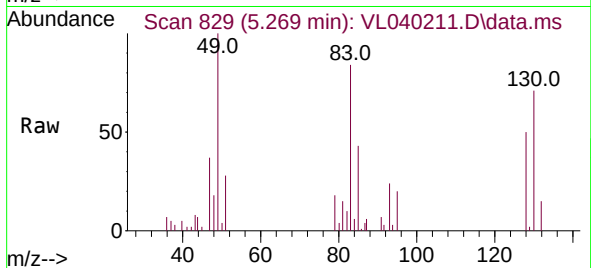
LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 83 Resp: 14150  
 Ion Ratio Lower Upper  
 83 100  
 85 50.5 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
 Supervised By :Mahesh Dadoda 02/23/2023



#30

Cyclohexane

Concen: 0.073 ppbv m

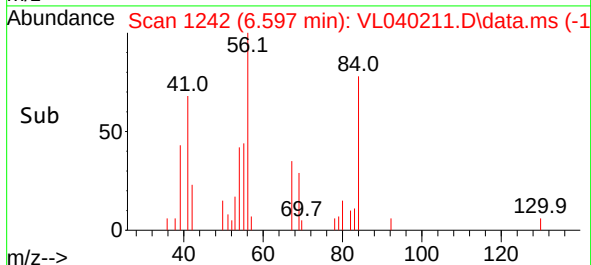
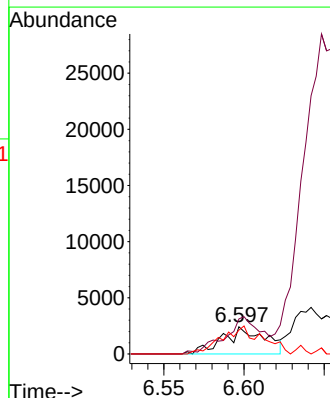
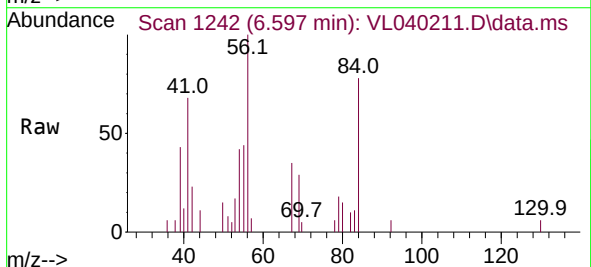
RT: 6.597 min Scan# 1242

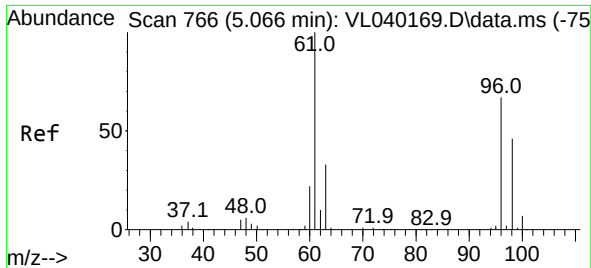
Delta R.T. -0.026 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

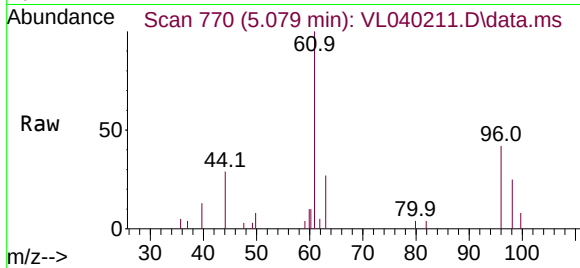
Tgt Ion: 84 Resp: 4407  
 Ion Ratio Lower Upper  
 84 100  
 56 0.0 109.9 164.9#  
 41 108.3 67.8 101.6#





#31  
cis-1,2-Dichloroethene  
Concen: 0.105 ppbv m  
RT: 5.079 min Scan# 766  
Delta R.T. -0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

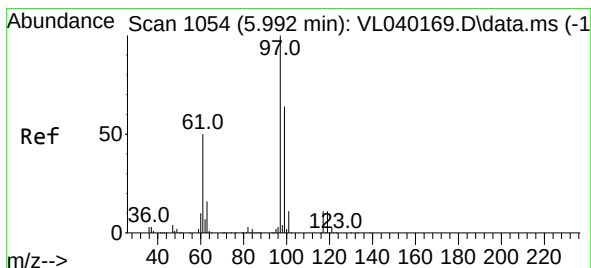
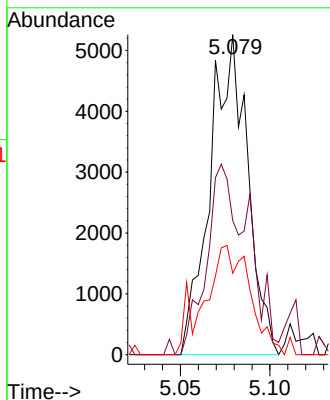
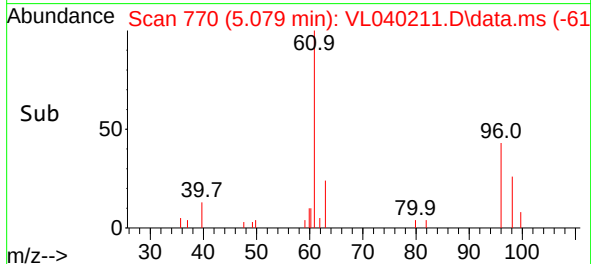
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 61 Resp: 7660  
Ion Ratio Lower Upper  
61 100  
96 41.9 53.7 80.5  
98 25.4 36.4 54.6

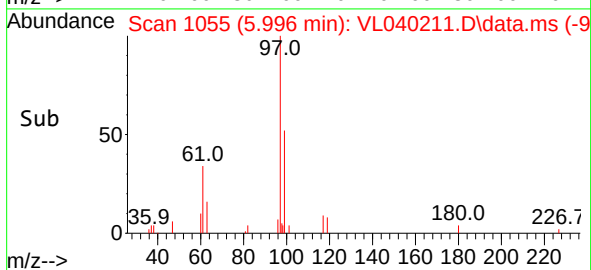
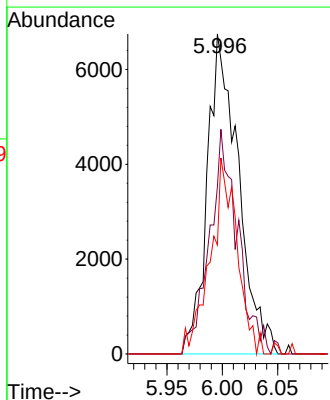
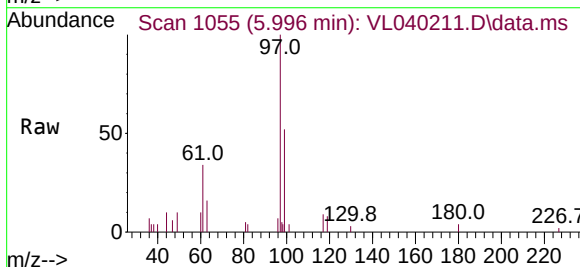
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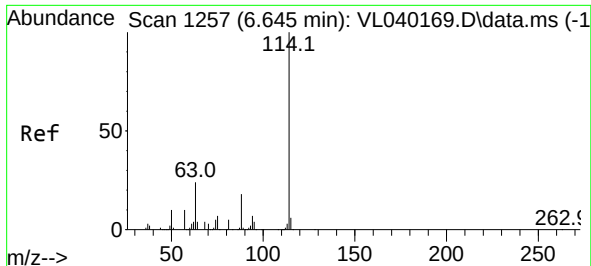
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#32  
1,1,1-Trichloroethane  
Concen: 0.106 ppbv m  
RT: 5.996 min Scan# 1055  
Delta R.T. -0.026 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion: 97 Resp: 13171  
Ion Ratio Lower Upper  
97 100  
99 64.0 51.5 77.3  
61 53.0 40.6 60.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 1

Delta R.T. -0.023 min

Lab File: VL040211.D

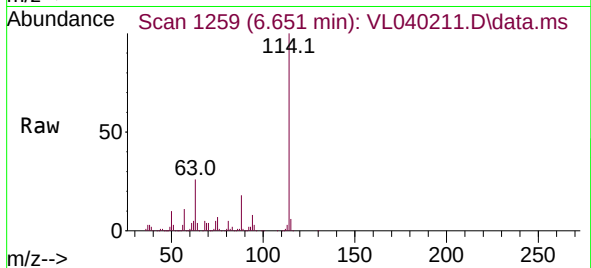
Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2023



Tgt Ion:114 Resp: 203599

Ion Ratio Lower Upper

114 100

63 26.1 20.4 30.6

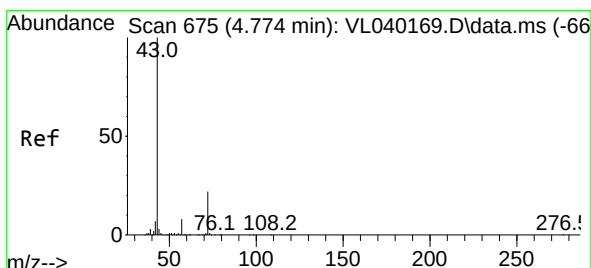
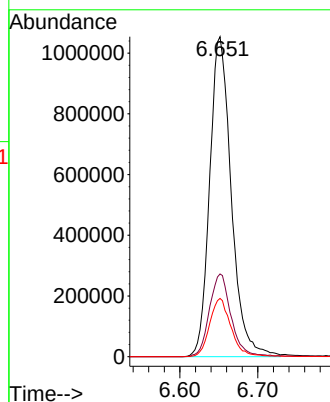
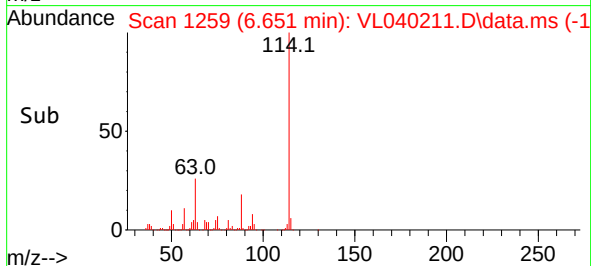
88 18.0 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023

Supervised By :Mahesh Dadoda 02/23/2023



#34

2-Butanone

Concen: 0.122 ppbv m

RT: 4.812 min Scan# 687

Delta R.T. 0.016 min

Lab File: VL040211.D

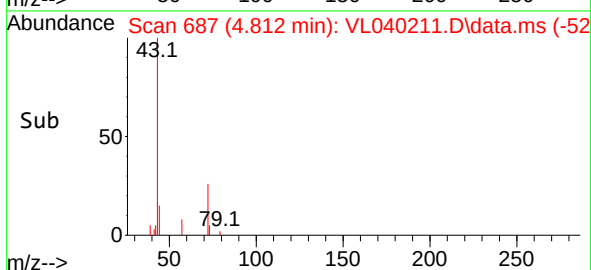
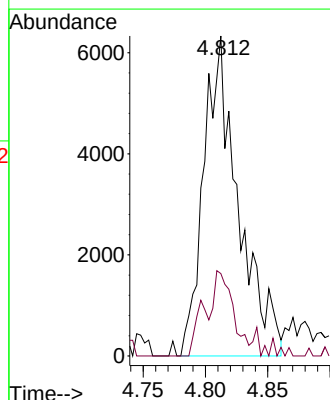
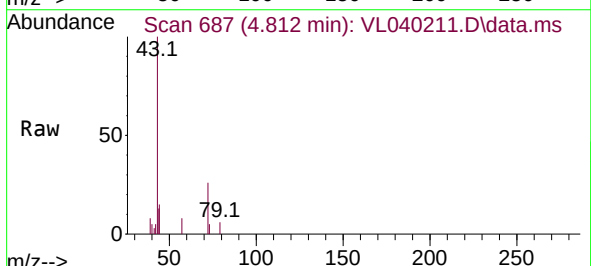
Acq: 22 Feb 2023 1:29

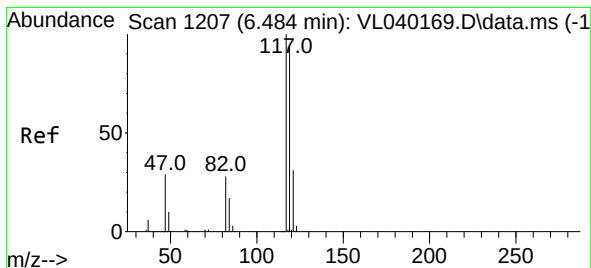
Tgt Ion: 43 Resp: 12240

Ion Ratio Lower Upper

43 100

72 0.0 17.8 26.8#





#35

Carbon Tetrachloride

Concen: 0.102 ppbv m

RT: 6.494 min Scan# 1172

Delta R.T. -0.019 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

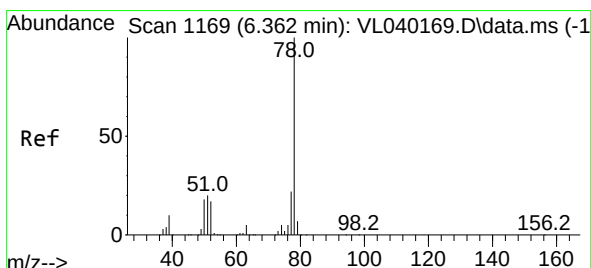
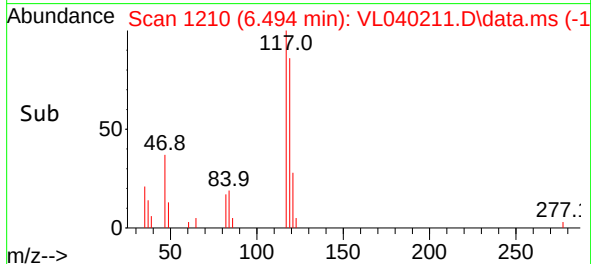
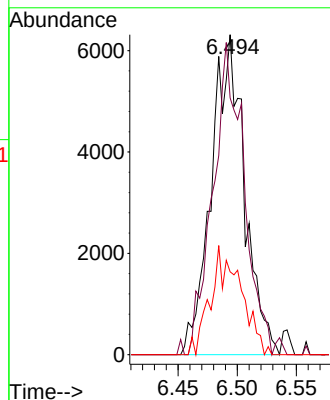
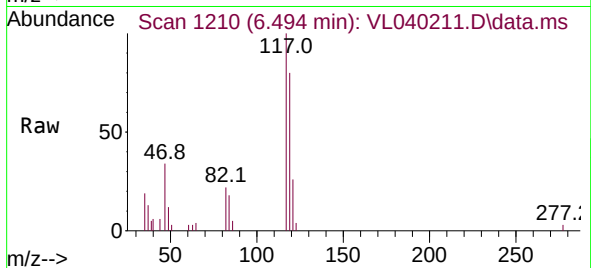
LOD-MDL-AIR-01-QT1-2023

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:117 | Resp: | 12294      |
| Ion Ratio   | Lower | Upper      |
| 117         | 100   |            |
| 119         | 80.3  | 75.0 112.6 |
| 121         | 25.9  | 25.0 37.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#36

Benzene

Concen: 0.088 ppbv m

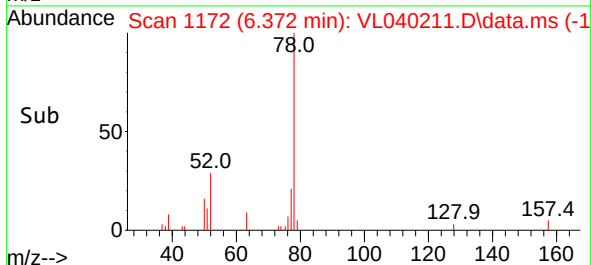
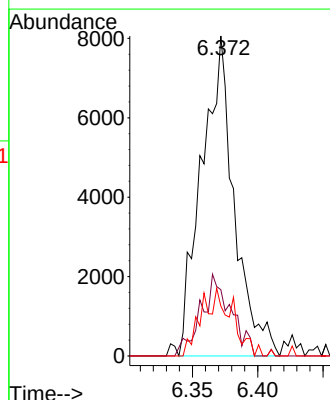
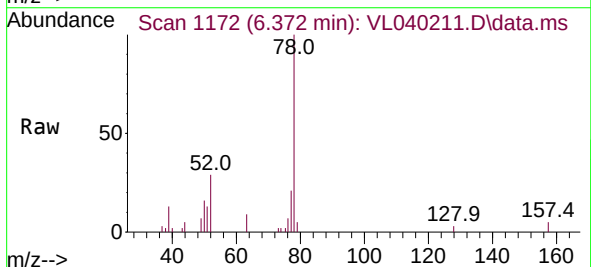
RT: 6.372 min Scan# 1172

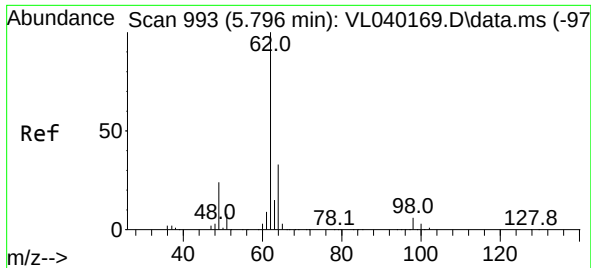
Delta R.T. -0.016 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

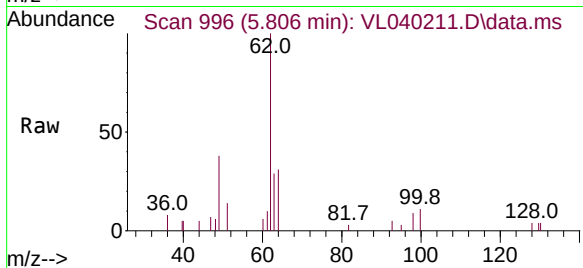
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 78 | Resp: | 14021     |
| Ion Ratio   | Lower | Upper     |
| 78          | 100   |           |
| 77          | 20.7  | 17.5 26.3 |
| 50          | 15.6  | 14.6 22.0 |





#37  
1,2-Dichloroethane  
Concen: 0.100 ppbv m  
RT: 5.806 min Scan# 991  
Delta R.T. -0.016 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

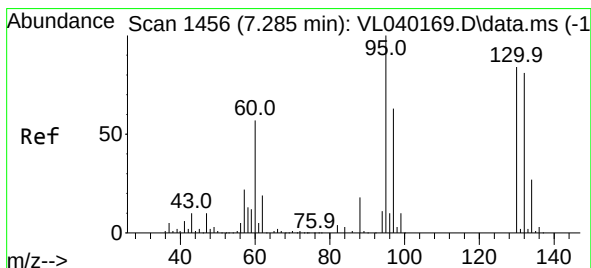
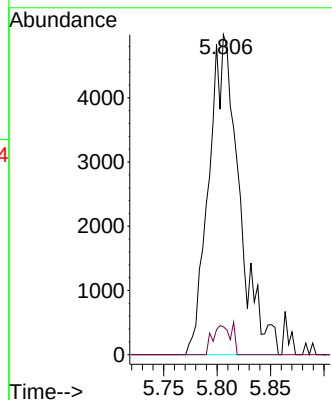
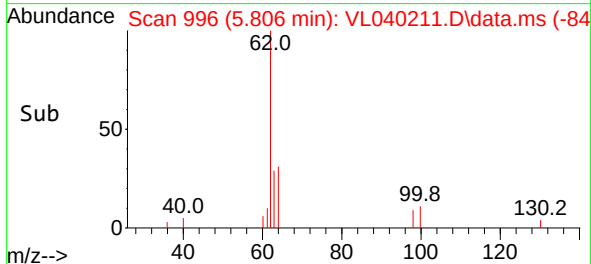
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



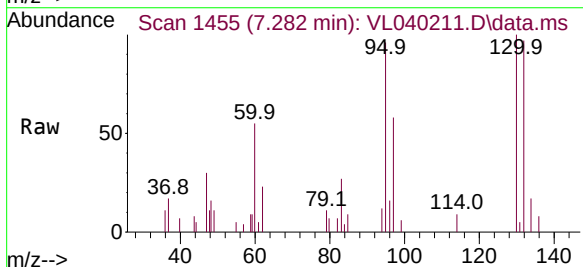
Tgt Ion: 62 Resp: 991  
Ion Ratio Lower Upper  
62 100  
98 0.0 4.7 7.1

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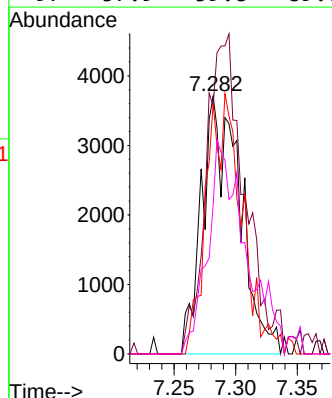
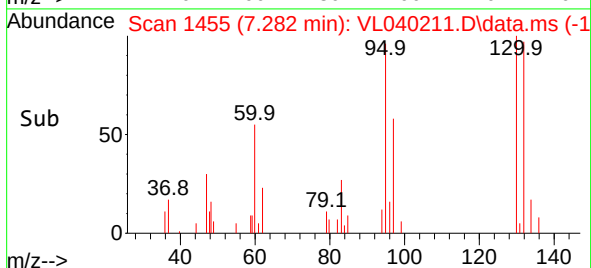
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023

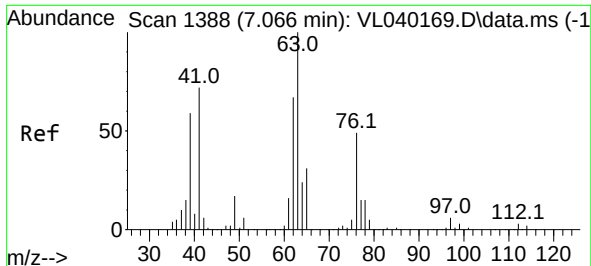


#38  
Trichloroethene  
Concen: 0.092 ppbv m  
RT: 7.282 min Scan# 1455  
Delta R.T. -0.032 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29



Tgt Ion:130 Resp: 8019  
Ion Ratio Lower Upper  
130 100  
95 96.2 94.7 142.1  
132 97.1 76.4 114.6  
97 57.9 59.8 89.6#





#39

1,2-Dichloropropane

Concen: 0.111 ppbv m

RT: 7.066 min Scan# 1

Delta R.T. -0.029 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2023

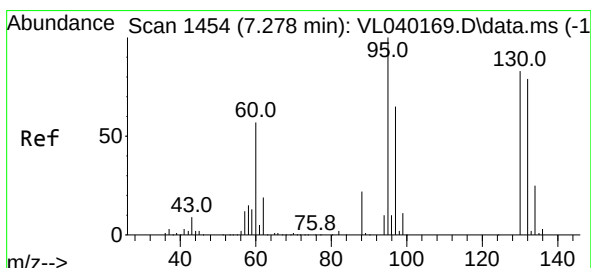
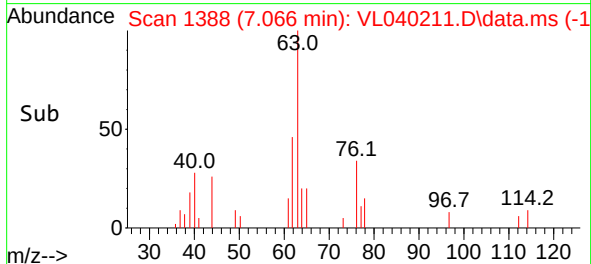
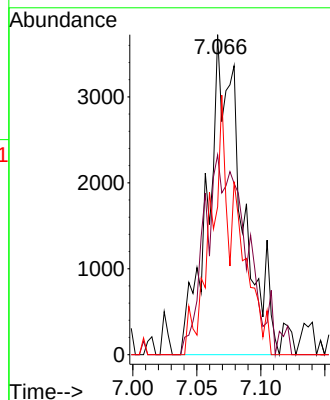
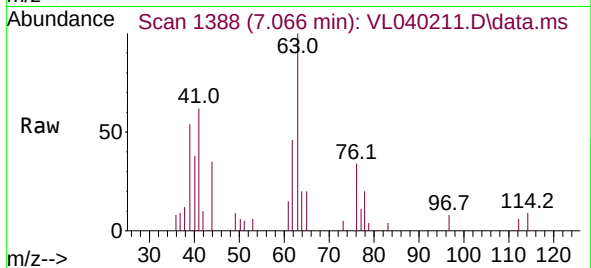
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 6810  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 62.4  | 57.6  | 86.4  |
| 62       | 46.2  | 54.0  | 81.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023

Supervised By :Mahesh Dadoda 02/23/2023



#40

1,4-Dioxane

Concen: 0.091 ppbv m

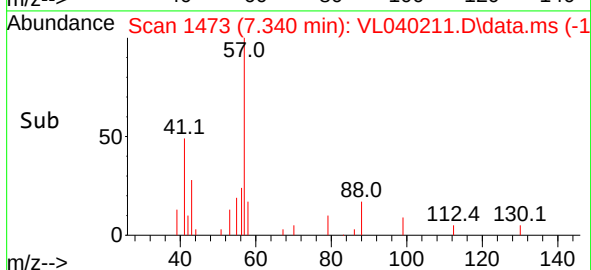
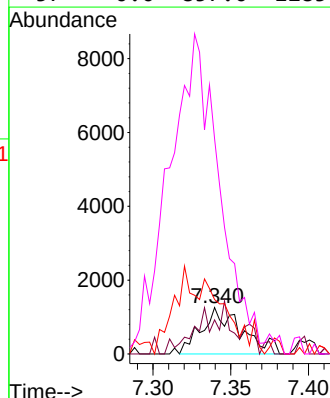
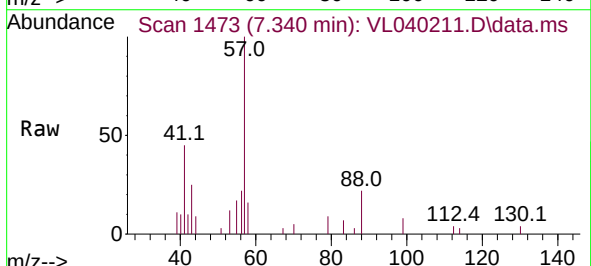
RT: 7.340 min Scan# 1473

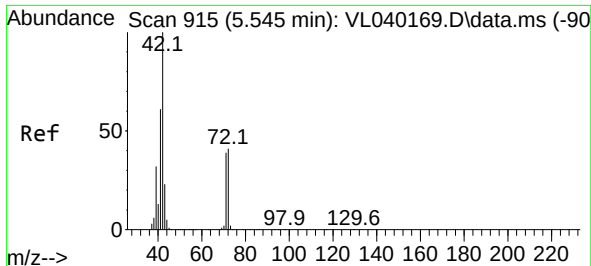
Delta R.T. 0.032 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 88    | Resp: | 2243    |
| Ion      | Ratio | Lower | Upper   |
| 88       | 100   |       |         |
| 58       | 0.0   | 97.4  | 146.0#  |
| 43       | 0.0   | 193.5 | 290.3#  |
| 57       | 0.0   | 857.0 | 1285.6# |





#41

Tetrahydrofuran

Concen: 0.084 ppbv m

RT: 5.587 min Scan# 915

Delta R.T. 0.016 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

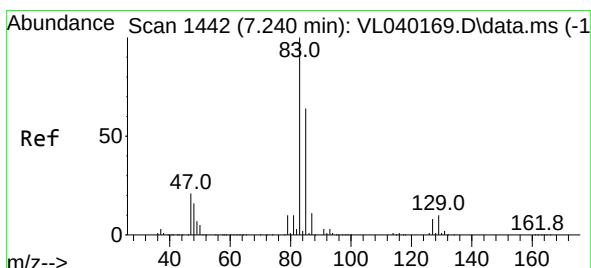
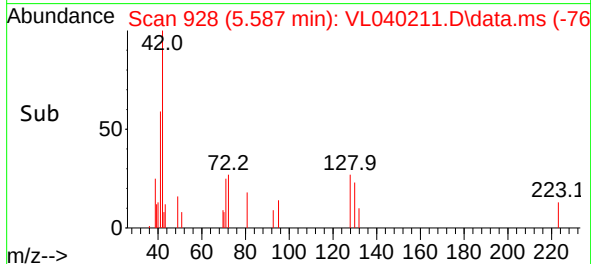
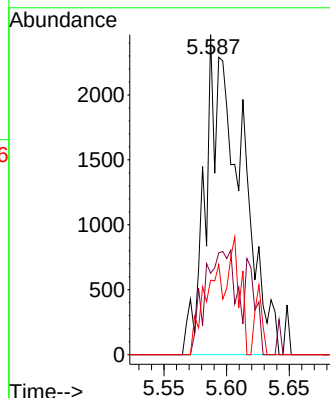
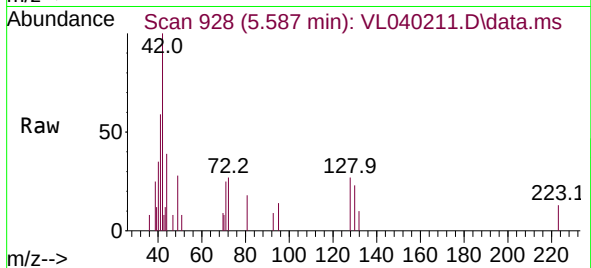
LOD-MDL-AIR-01-QT1-2023

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 42    | Resp: | 490  |
| Ion Ratio | Lower | Upper |      |
| 42        | 100   |       |      |
| 72        | 0.0   | 33.0  | 49.4 |
| 71        | 0.0   | 31.4  | 47.2 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#42

Bromodichloromethane

Concen: 0.093 ppbv m

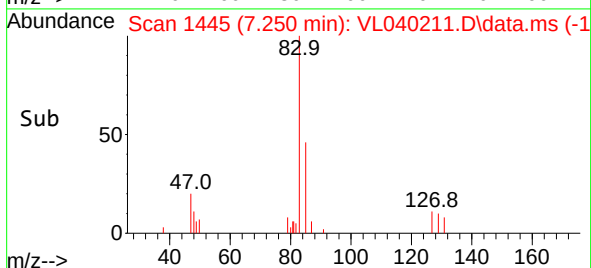
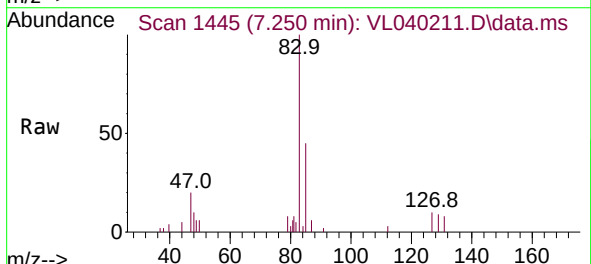
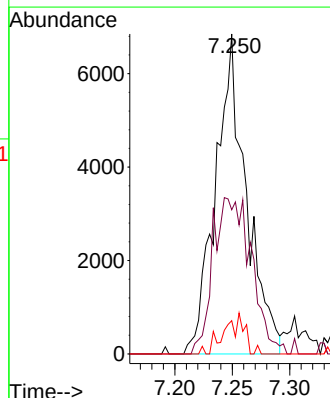
RT: 7.250 min Scan# 1445

Delta R.T. -0.019 min

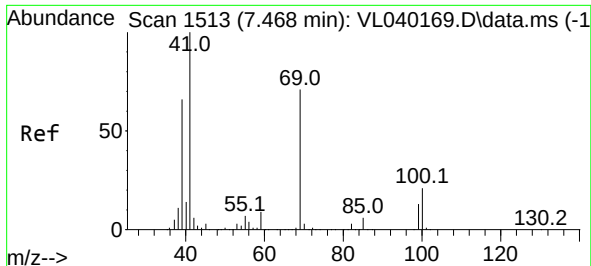
Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 12733 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 45.1  | 50.9  | 76.3  |
| 127       | 10.4  | 6.2   | 9.2   |

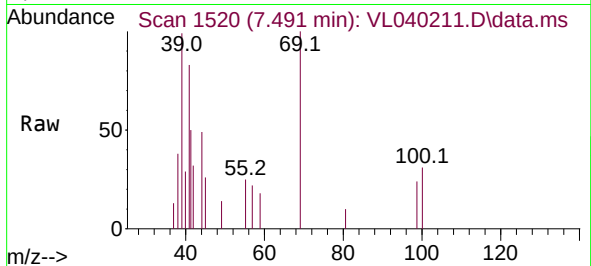






#43  
Methyl Methacrylate  
Concen: 0.064 ppbv m  
RT: 7.491 min Scan# 1513  
Delta R.T. -0.003 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

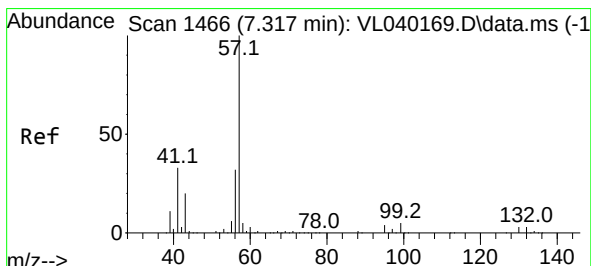
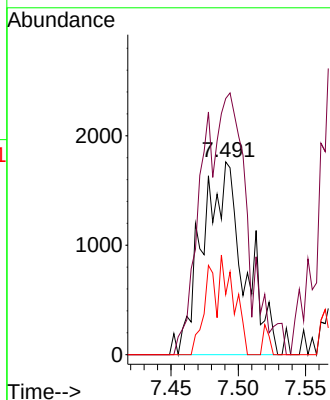
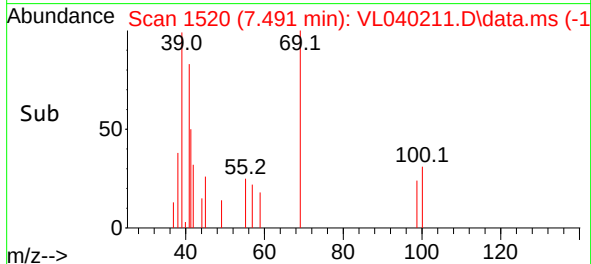
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 69 Resp: 373  
Ion Ratio Lower Upper  
69 100  
41 0.0 116.6 174.8  
100 0.0 25.6 38.4

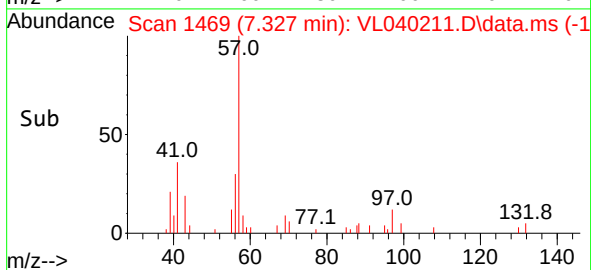
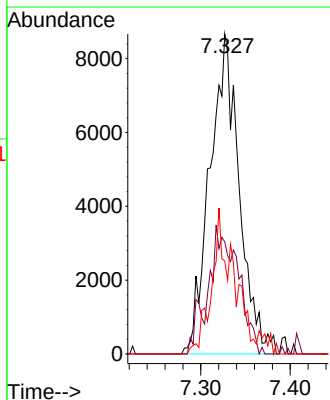
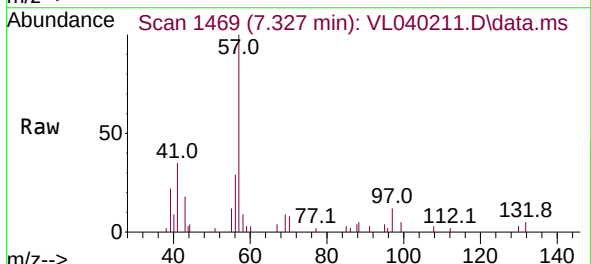
Manual Integrations  
APPROVED

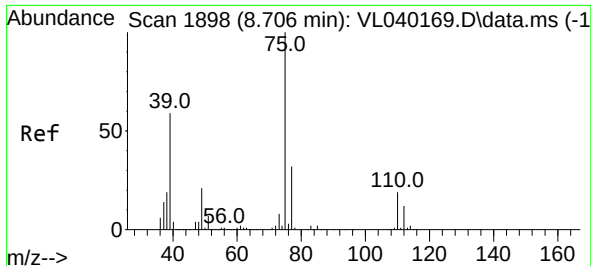
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#44  
2,2,4-Trimethylpentane  
Concen: 0.075 ppbv m  
RT: 7.327 min Scan# 1469  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

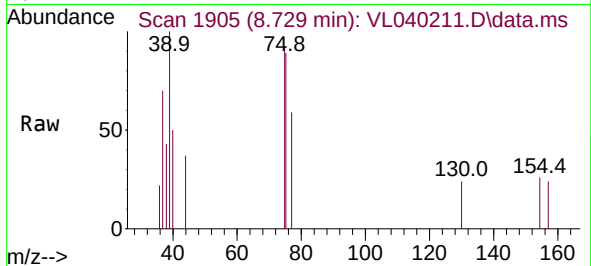
Tgt Ion: 57 Resp: 19818  
Ion Ratio Lower Upper  
57 100  
41 41.5 26.2 39.4  
56 36.6 24.9 37.3





#45  
t-1,3-Dichloropropene  
Concen: 0.049 ppbv m  
RT: 8.729 min Scan# 1905  
Delta R.T. -0.007 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

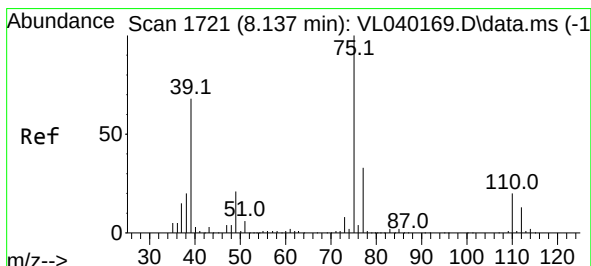
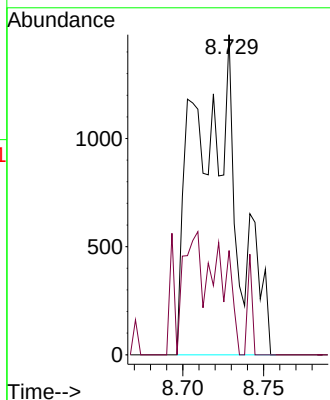
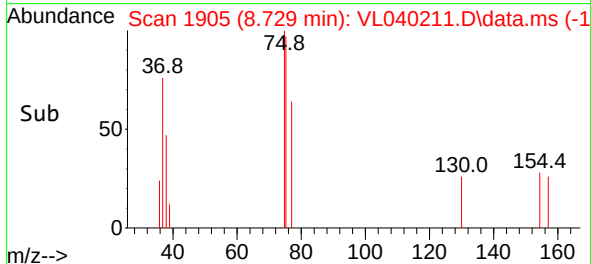
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 75 Resp: 2564  
Ion Ratio Lower Upper  
75 100  
77 66.1 25.7 38.5

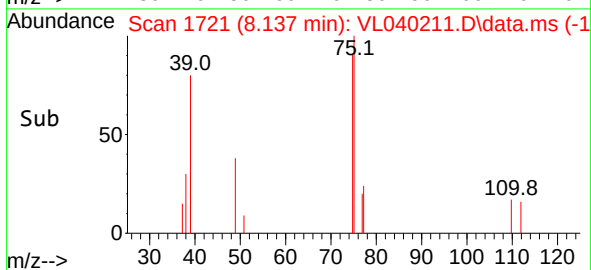
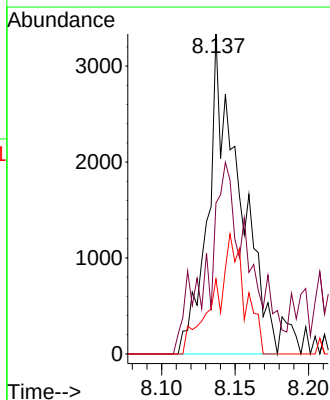
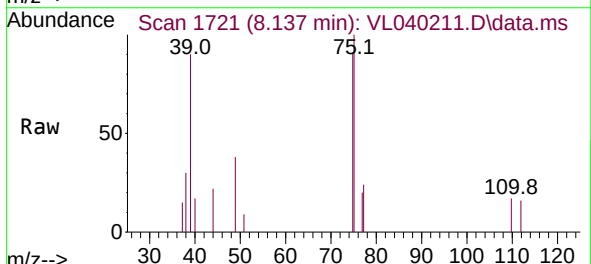
Manual Integrations  
APPROVED

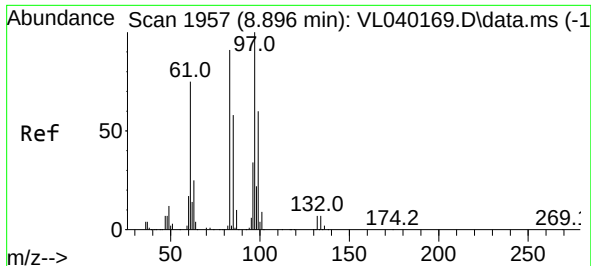
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#46  
cis-1,3-Dichloropropene  
Concen: 0.069 ppbv m  
RT: 8.137 min Scan# 1721  
Delta R.T. -0.026 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion: 75 Resp: 4979  
Ion Ratio Lower Upper  
75 100  
39 90.4 54.2 81.2#  
77 24.3 26.0 39.0#





#47

1,1,2-Trichloroethane

Concen: 0.098 ppbv m

RT: 8.896 min Scan# 1957

Delta R.T. -0.029 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

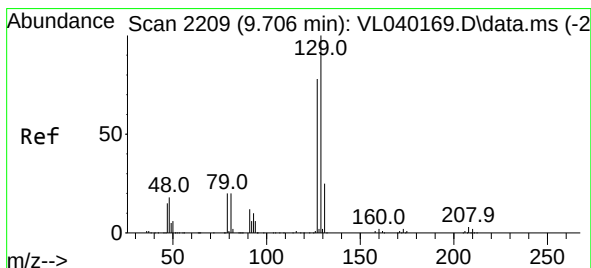
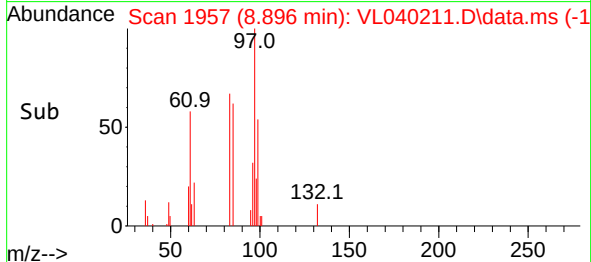
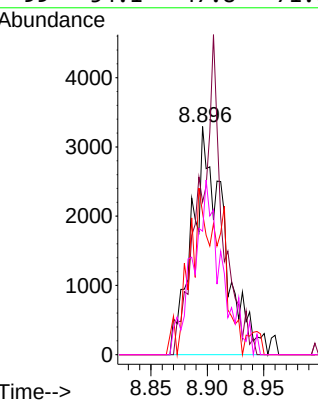
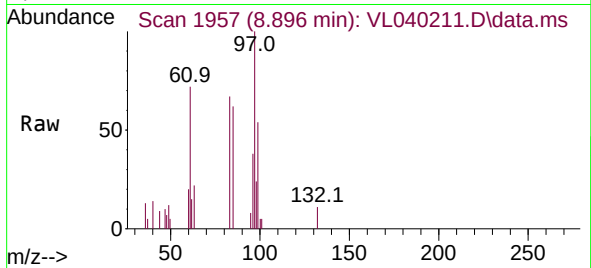
LOD-MDL-AIR-01-QT1-2023

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 653   |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 66.9  | 72.8  | 109.2 |
| 85       | 62.0  | 46.6  | 69.8  |
| 99       | 54.1  | 47.8  | 71.6  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#48

Dibromochloromethane

Concen: 0.077 ppbv m

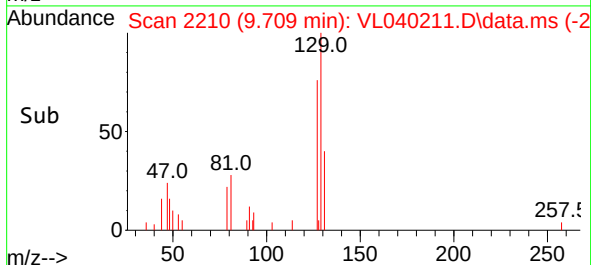
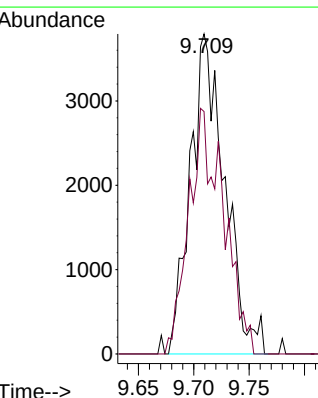
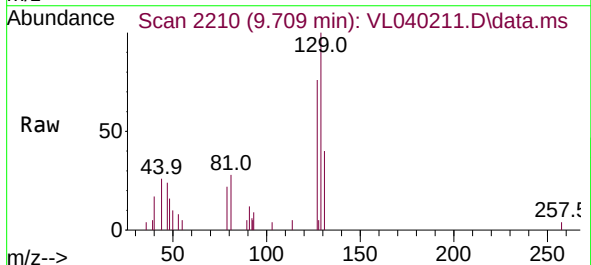
RT: 9.709 min Scan# 2210

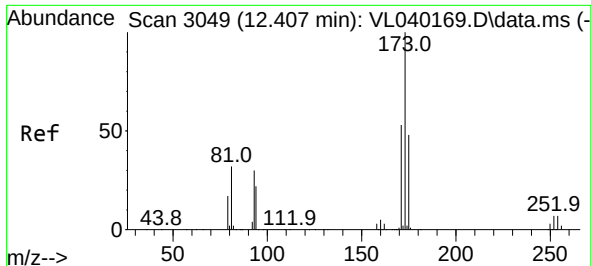
Delta R.T. -0.026 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 8177  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 77.7  | 39.1  | 117.2 |





#49

Bromoform

Concen: 0.068 ppbv m

RT: 12.407 min Scan# 3049

Delta R.T. -0.029 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

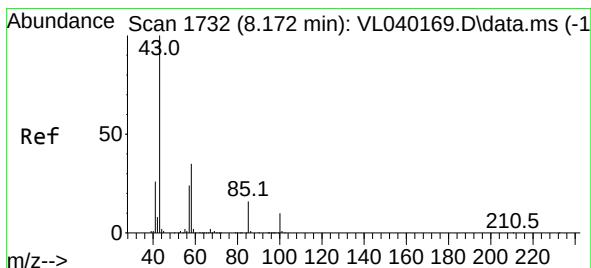
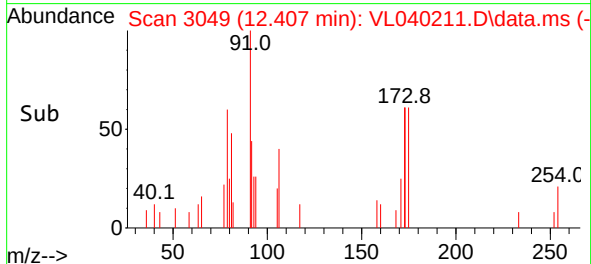
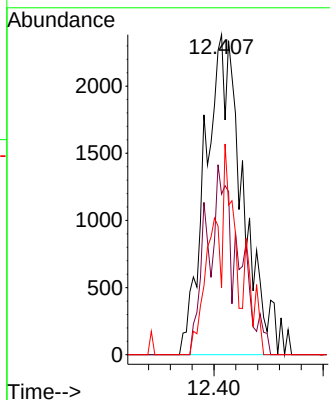
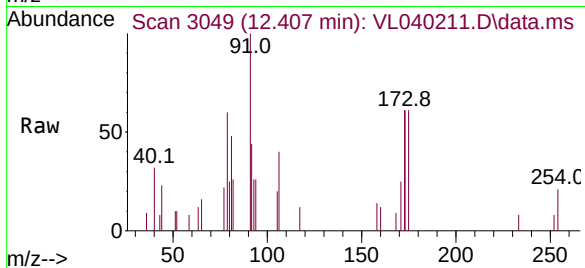
LOD-MDL-AIR-01-QT1-2023

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 173   | Resp: | 568  |
| Ion Ratio | Lower | Upper |      |
| 173       | 100   |       |      |
| 175       | 0.0   | 39.4  | 59.0 |
| 171       | 0.0   | 41.8  | 62.6 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#50

4-Methyl-2-Pentanone

Concen: 0.072 ppbv m

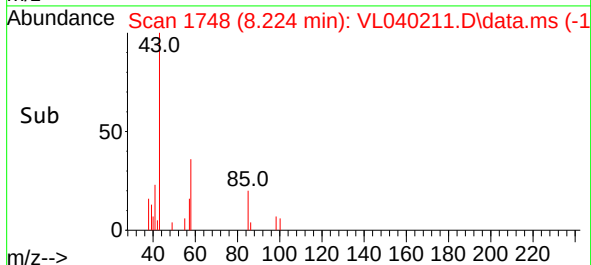
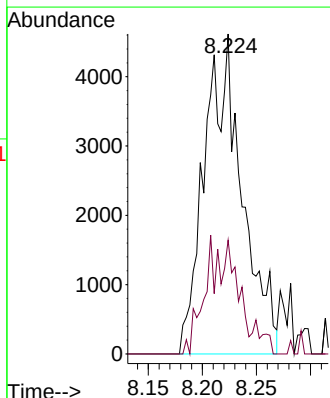
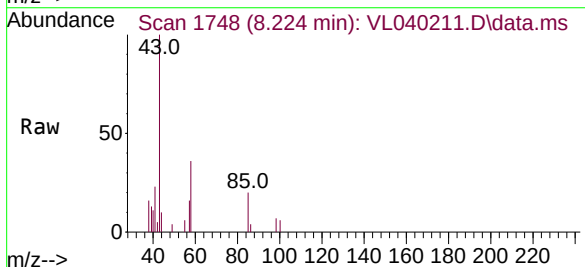
RT: 8.224 min Scan# 1748

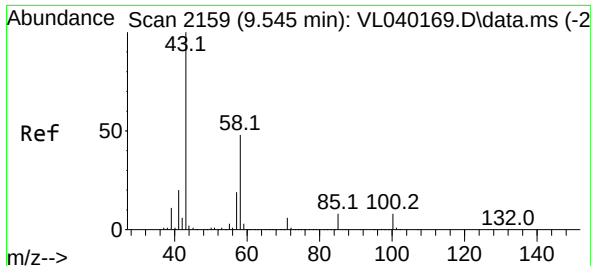
Delta R.T. 0.022 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 11166 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 31.9  | 29.2  | 43.8  |





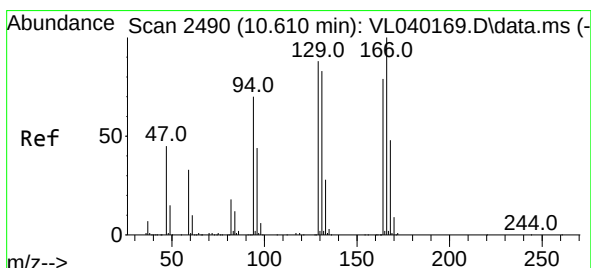
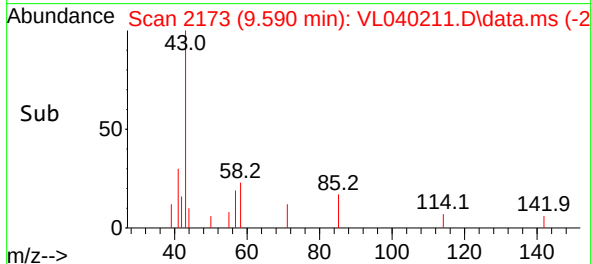
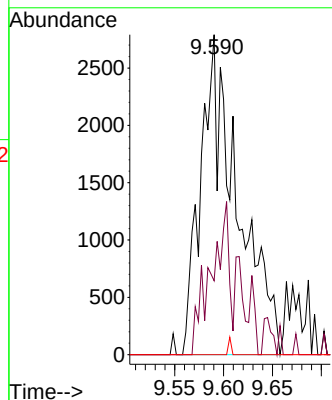
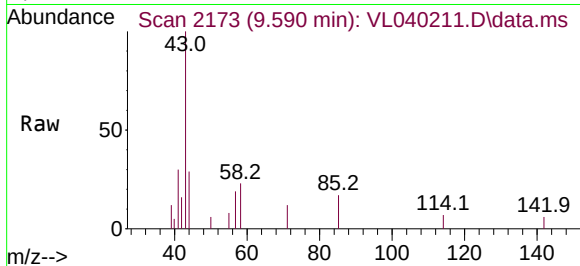
#51  
2-Hexanone  
Concen: 0.061 ppbv m  
RT: 9.590 min Scan# 2159  
Delta R.T. 0.016 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 43 Resp: 727  
Ion Ratio Lower Upper  
43 100  
58 0.0 39.1 58.7  
98 0.0 0.2 0.4

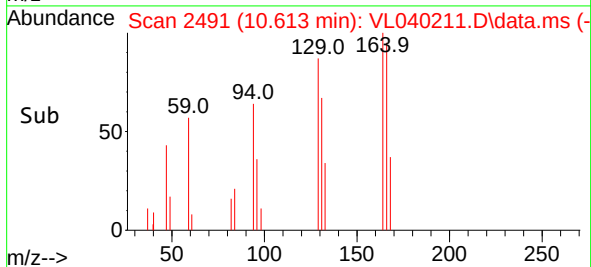
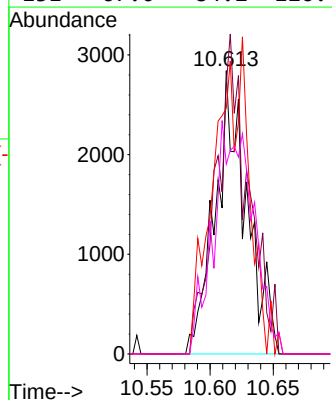
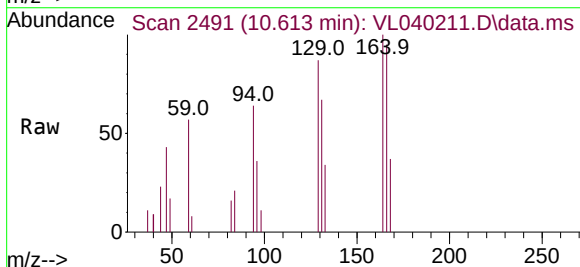
Manual Integrations  
APPROVED

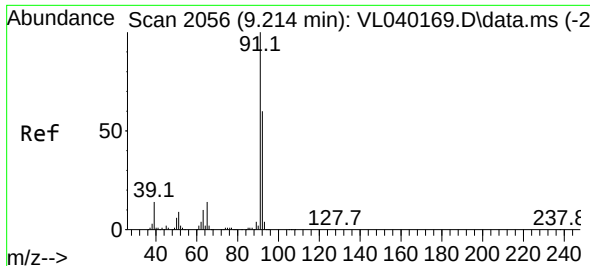
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#52  
Tetrachloroethene  
Concen: 0.099 ppbv m  
RT: 10.613 min Scan# 2491  
Delta R.T. -0.029 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

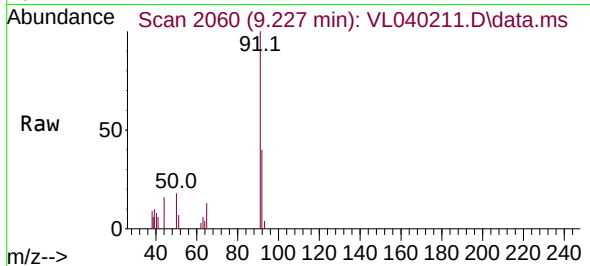
Tgt Ion:164 Resp: 4906  
Ion Ratio Lower Upper  
164 100  
166 95.1 101.5 152.3#  
129 86.7 89.0 133.4#  
131 67.0 84.2 126.4#





#53  
Toluene  
Concen: 0.065 ppbv m  
RT: 9.227 min Scan# 2060  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

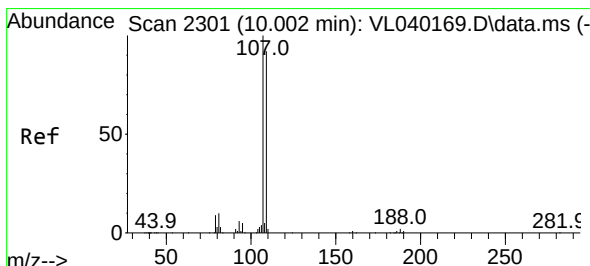
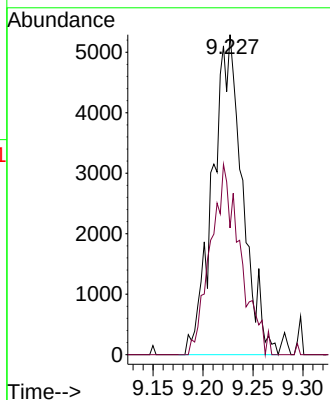
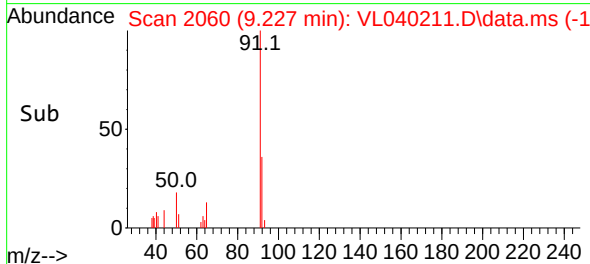
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 91 Resp: 1100  
Ion Ratio Lower Upper  
91 100  
92 0.0 48.9 73.3

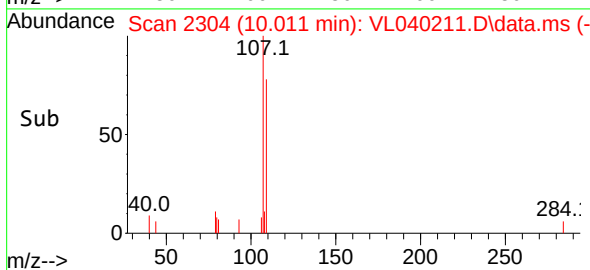
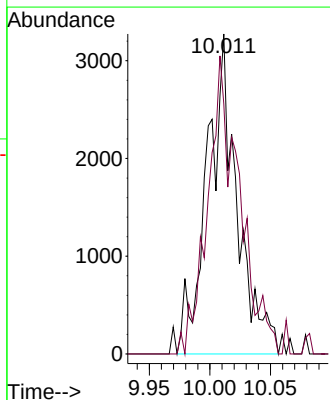
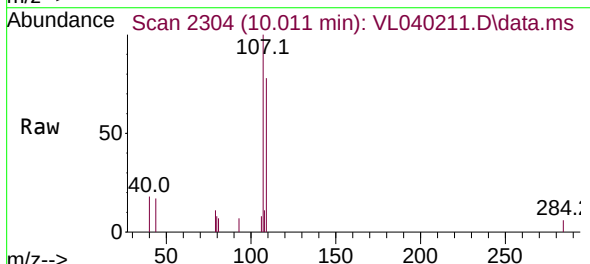
Manual Integrations  
APPROVED

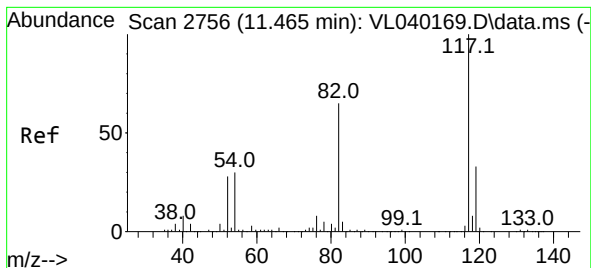
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#54  
1,2-Dibromoethane  
Concen: 0.081 ppbv m  
RT: 10.011 min Scan# 2304  
Delta R.T. -0.023 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion:107 Resp: 5621  
Ion Ratio Lower Upper  
107 100  
109 78.1 73.8 110.8





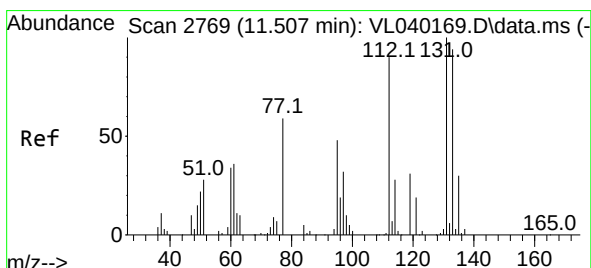
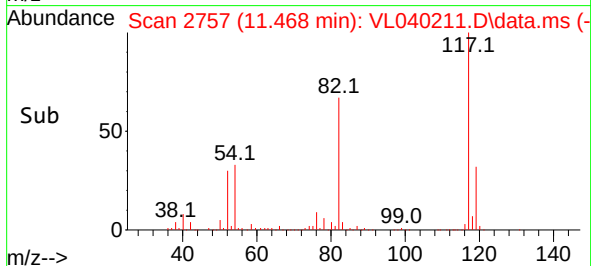
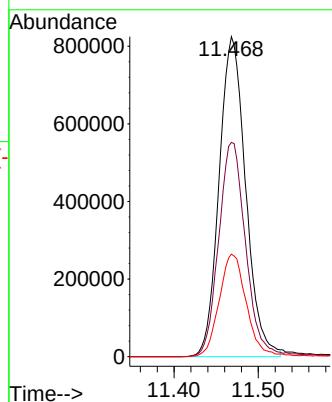
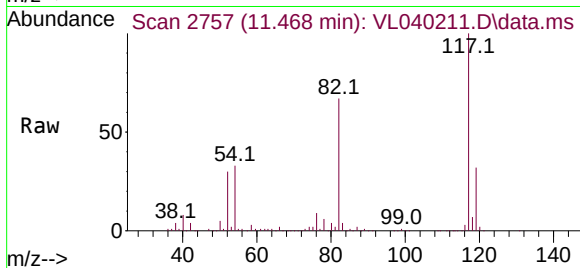
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.468 min Scan# 2756  
Delta R.T. -0.026 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023

Tgt Ion:117 Resp: 1801094  
Ion Ratio Lower Upper  
117 100  
82 69.1 53.3 79.9  
119 33.2 24.6 37.0

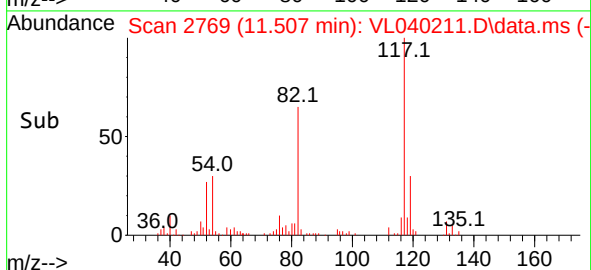
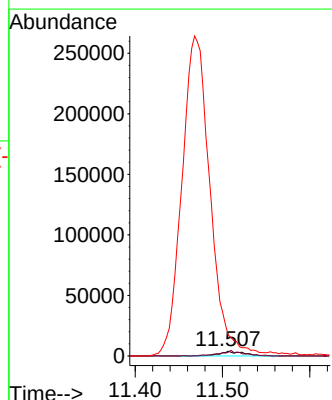
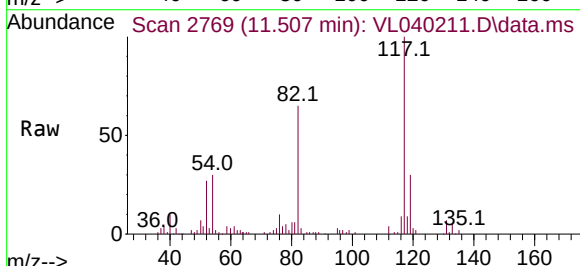
Manual Integrations  
APPROVED

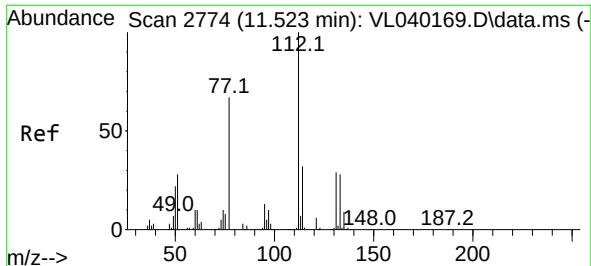
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.101 ppbv m  
RT: 11.507 min Scan# 2769  
Delta R.T. -0.032 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion:131 Resp: 7650  
Ion Ratio Lower Upper  
131 100  
133 103.9 76.2 114.2  
119 0.0 45.4 68.0#





#57

Chlorobenzene

Concen: 0.112 ppbv m

RT: 11.526 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

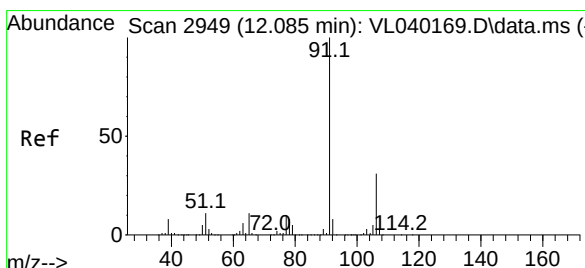
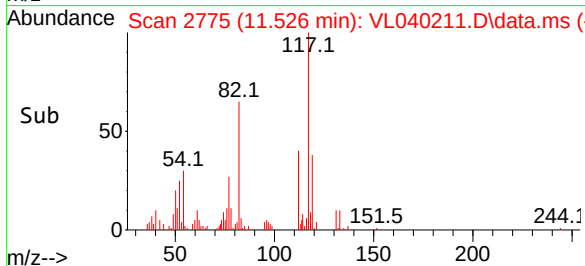
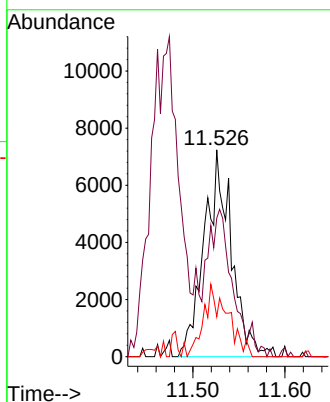
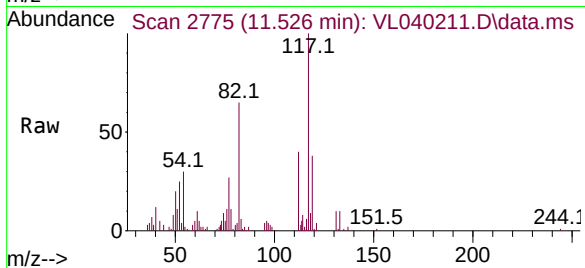
LOD-MDL-AIR-01-QT1-2023

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 1476 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 77        | 66.9  | 55.0  | 82.4 |
| 114       | 19.4  | 29.0  | 35.4 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#58

Ethyl Benzene

Concen: 0.062 ppbv m

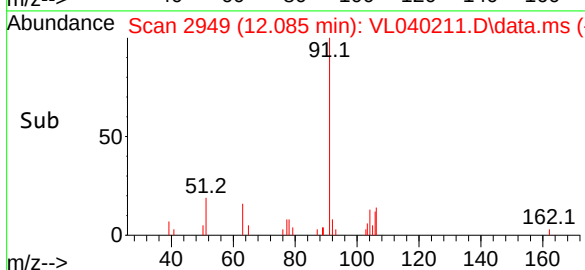
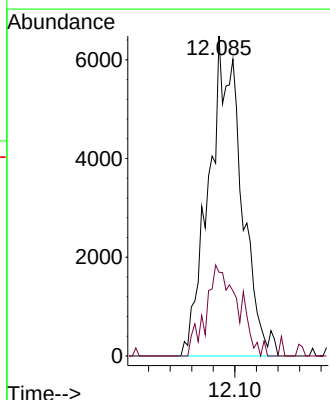
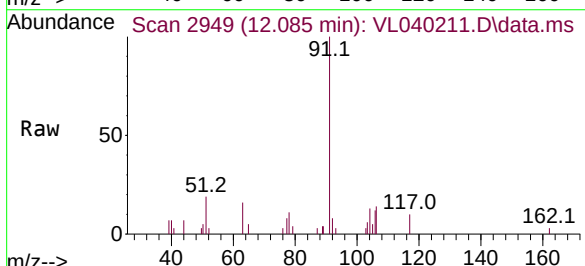
RT: 12.085 min Scan# 2949

Delta R.T. -0.032 min

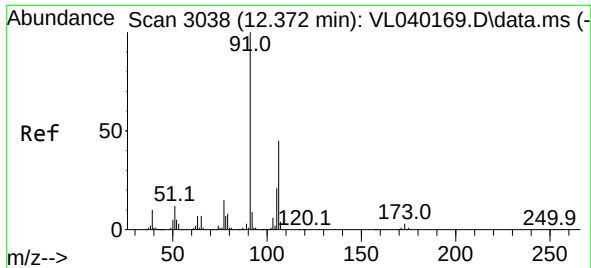
Lab File: VL040211.D

Acq: 22 Feb 2023 1:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 13526 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 14.2  | 24.9  | 37.3  |







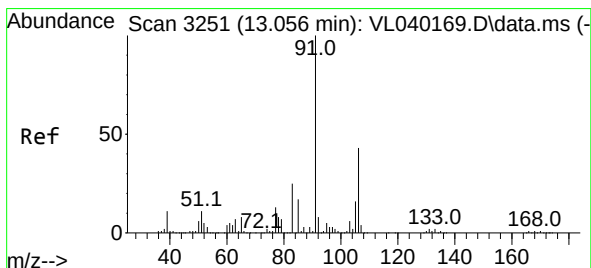
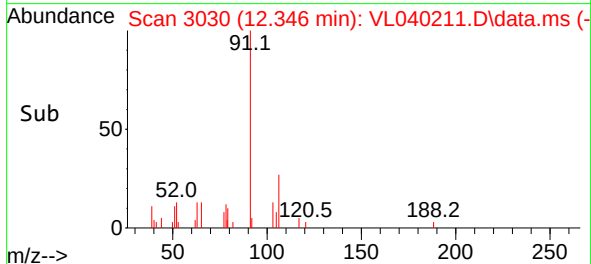
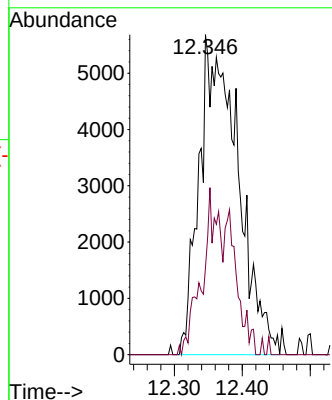
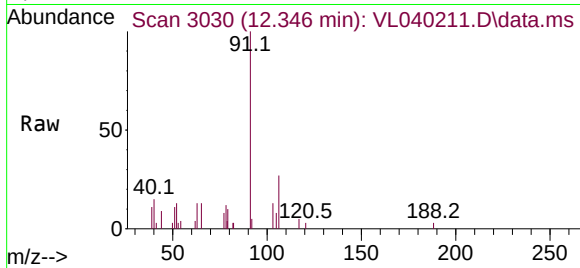
#59  
m/p-Xylene  
Concen: 0.115 ppbv m  
RT: 12.346 min Scan# 3038  
Delta R.T. -0.052 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023

Tgt Ion: 91 Resp: 2238  
Ion Ratio Lower Upper  
91 100  
106 0.0 34.6 51.8

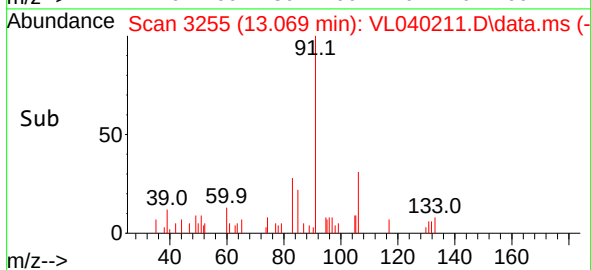
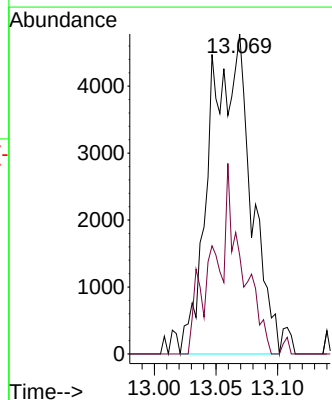
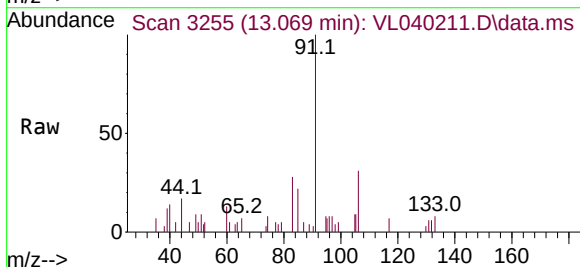
Manual Integrations  
APPROVED

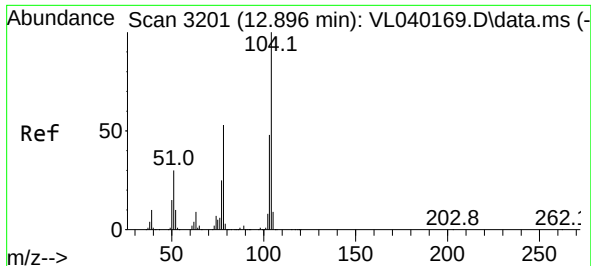
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#60  
o-Xylene  
Concen: 0.059 ppbv m  
RT: 13.069 min Scan# 3255  
Delta R.T. -0.016 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion: 91 Resp: 10987  
Ion Ratio Lower Upper  
91 100  
106 41.4 21.6 65.0





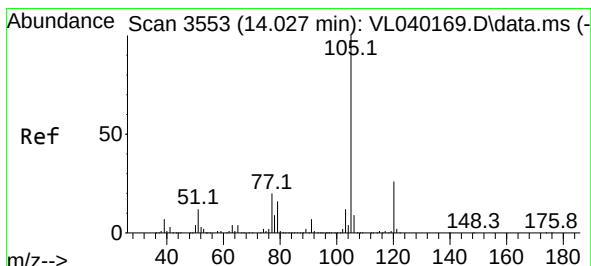
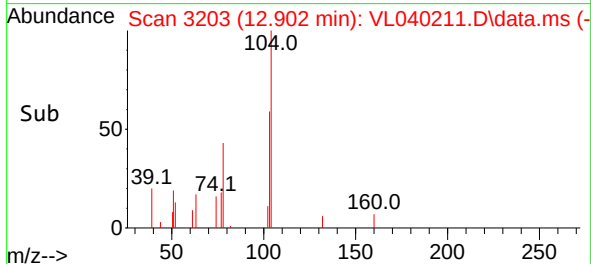
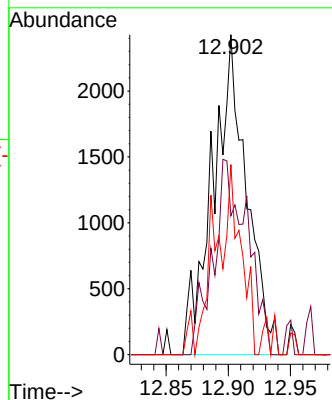
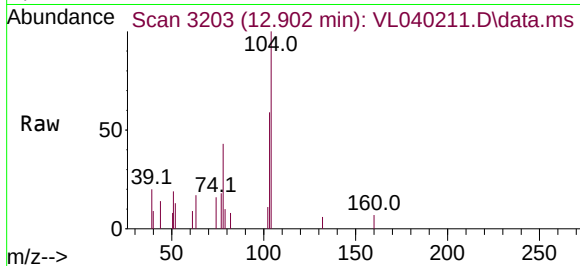
#61  
Styrene  
Concen: 0.047 ppbv m  
RT: 12.902 min Scan# 31  
Delta R.T. -0.026 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023

Tgt Ion:104 Resp: 464  
Ion Ratio Lower Upper  
104 100  
78 0.0 42.3 63.5  
103 50.4 37.5 56.3

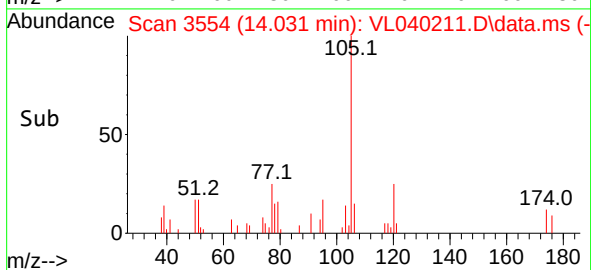
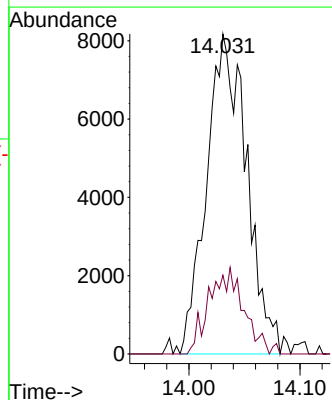
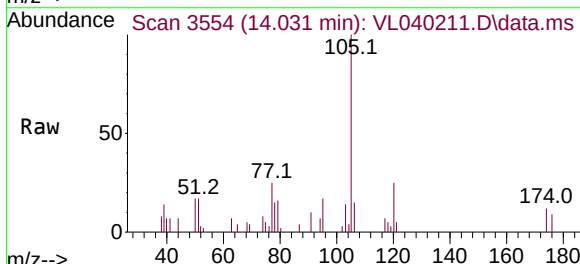
Manual Integrations  
APPROVED

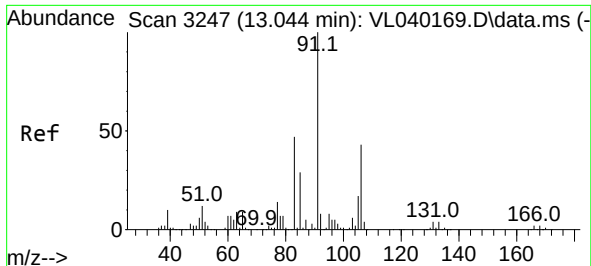
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#62  
Isopropylbenzene  
Concen: 0.076 ppbv m  
RT: 14.031 min Scan# 3554  
Delta R.T. -0.029 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

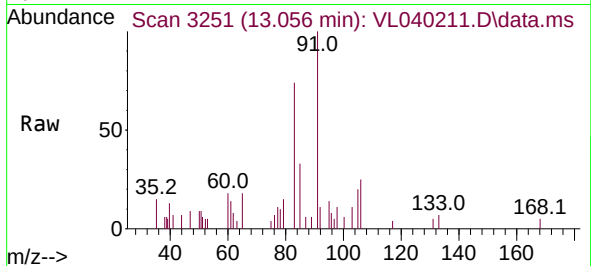
Tgt Ion:105 Resp: 20450  
Ion Ratio Lower Upper  
105 100  
120 0.0 20.3 30.5#





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.097 ppbv m  
RT: 13.056 min Scan# 31  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

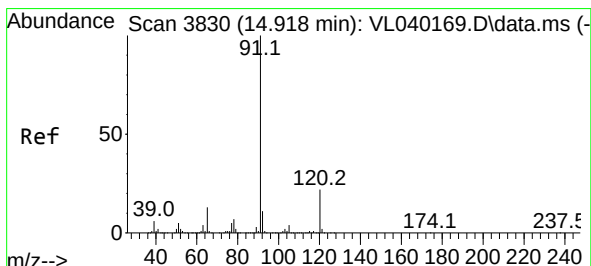
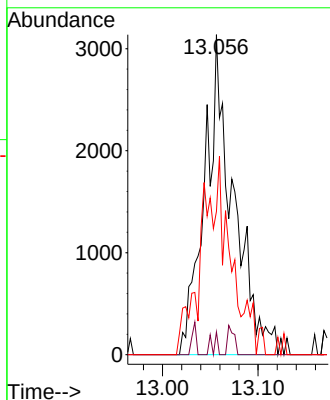
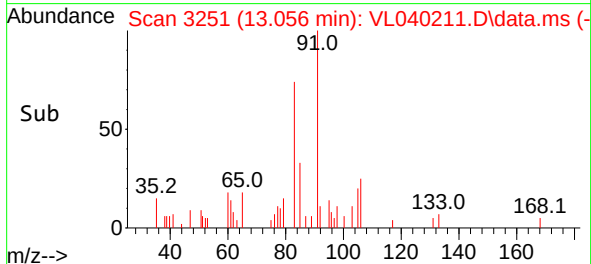
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



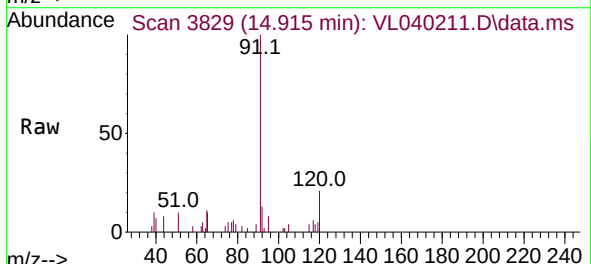
Tgt Ion: 83 Resp: 654  
Ion Ratio Lower Upper  
83 100  
131 1.5 4.4 13.2  
85 0.0 33.0 99.0

Manual Integrations  
APPROVED

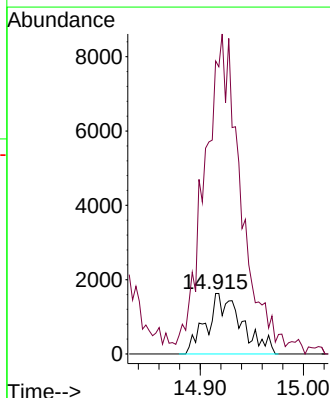
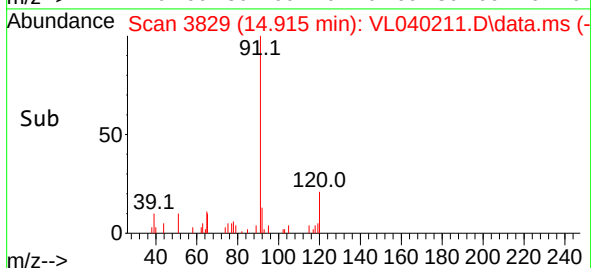
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023

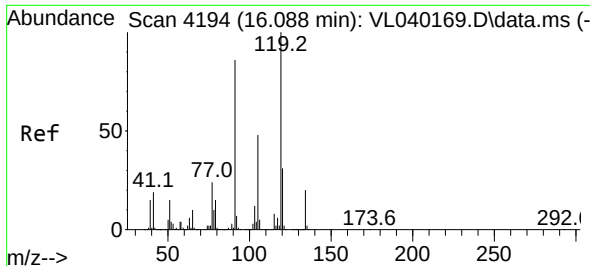


#64  
n-propylbenzene  
Concen: 0.058 ppbv m  
RT: 14.915 min Scan# 3829  
Delta R.T. -0.035 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29



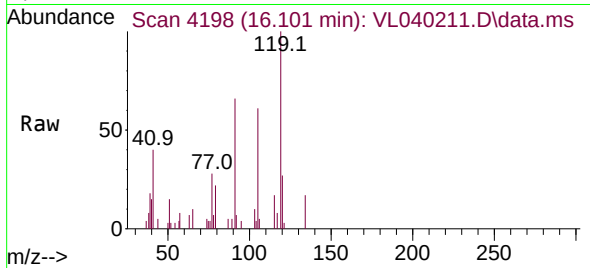
Tgt Ion:120 Resp: 3828  
Ion Ratio Lower Upper  
120 100  
91 569.1 389.8 584.8





#65  
tert-Butylbenzene  
Concen: 0.061 ppbv m  
RT: 16.101 min Scan# 4198  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

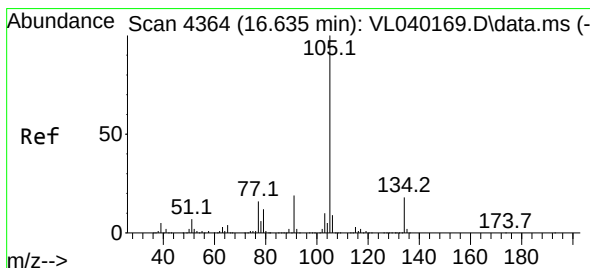
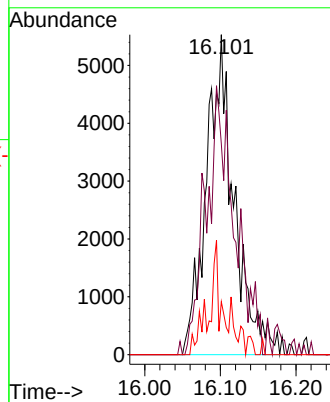
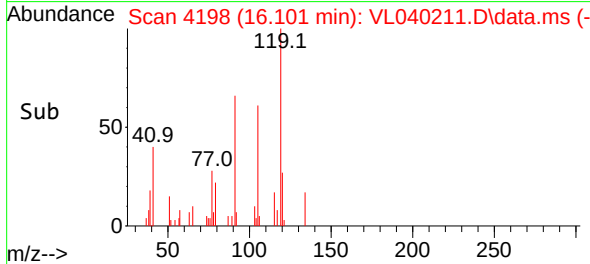
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion:119 Resp: 14118  
Ion Ratio Lower Upper  
119 100  
91 0.0 68.6 102.8  
134 0.0 15.9 23.9

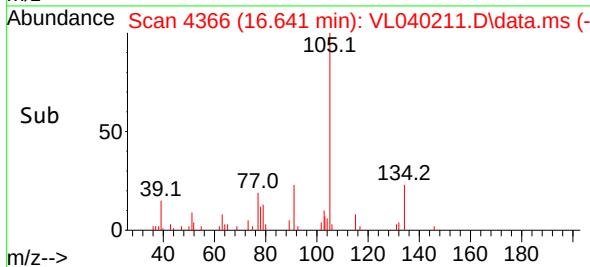
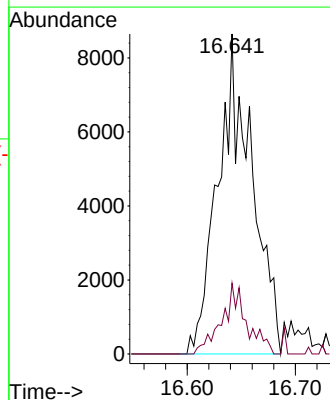
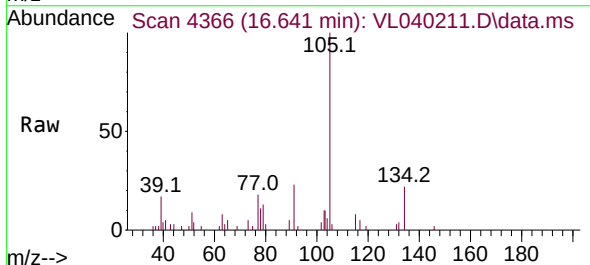
Manual Integrations  
APPROVED

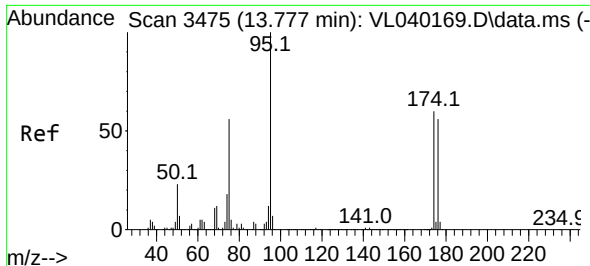
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#67  
sec-Butylbenzene  
Concen: 0.056 ppbv m  
RT: 16.641 min Scan# 4366  
Delta R.T. -0.026 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

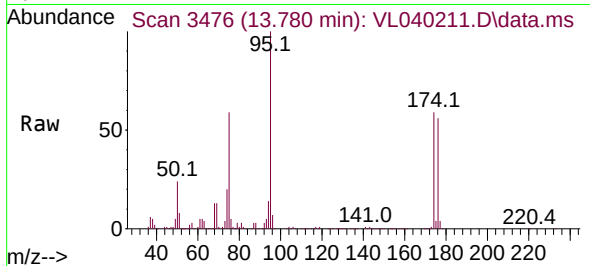
Tgt Ion:105 Resp: 18797  
Ion Ratio Lower Upper  
105 100  
134 0.0 14.1 21.1#





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.045 ppbv  
RT: 13.780 min Scan# 3475  
Delta R.T. -0.026 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

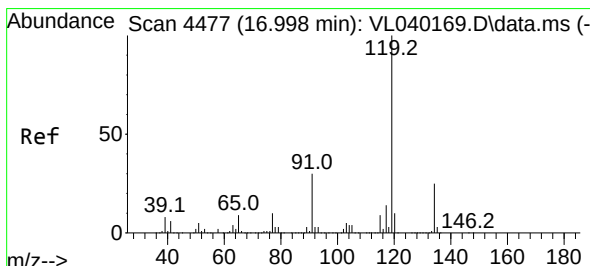
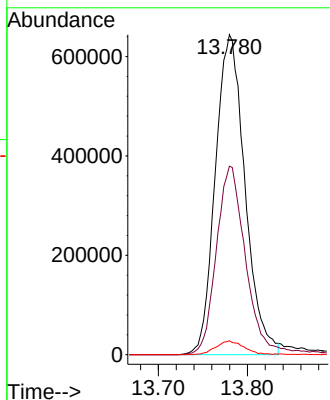
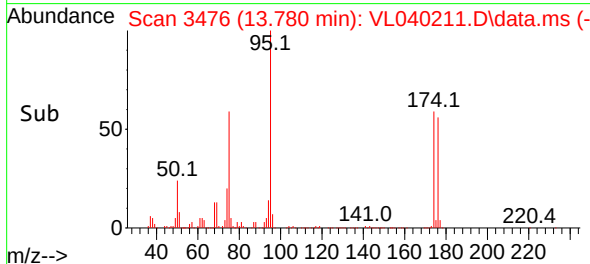
Instrument : MSVOA\_1  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 95 Resp: 148764  
Ion Ratio Lower Upper  
95 100  
174 59.1 48.2 72.2  
175 4.3 3.4 5.2

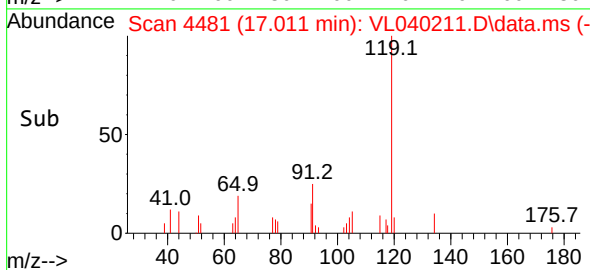
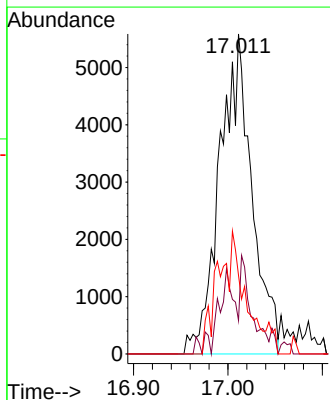
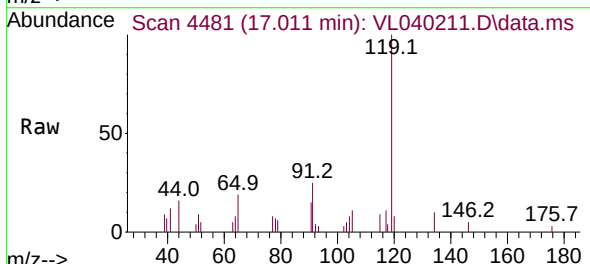
Manual Integrations  
APPROVED

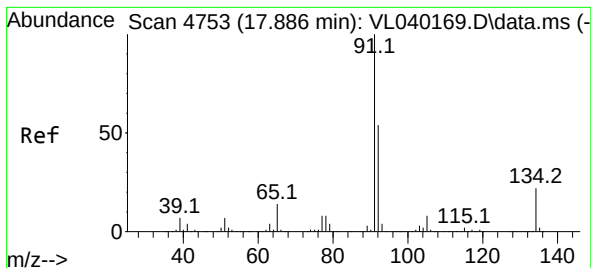
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#69  
p-Isopropyltoluene  
Concen: 0.050 ppbv m  
RT: 17.011 min Scan# 4481  
Delta R.T. -0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

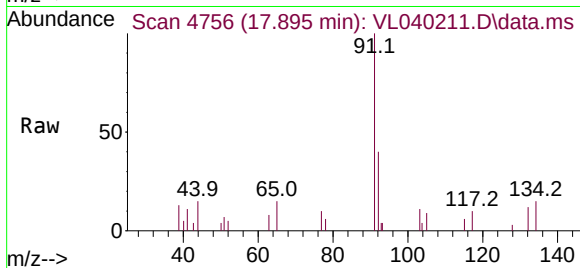
Tgt Ion:119 Resp: 13251  
Ion Ratio Lower Upper  
119 100  
134 0.0 20.2 30.2#  
91 33.5 24.7 37.1





#70  
n-Butylbenzene  
Concen: 0.054 ppbv m  
RT: 17.895 min Scan# 4756  
Delta R.T. -0.023 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

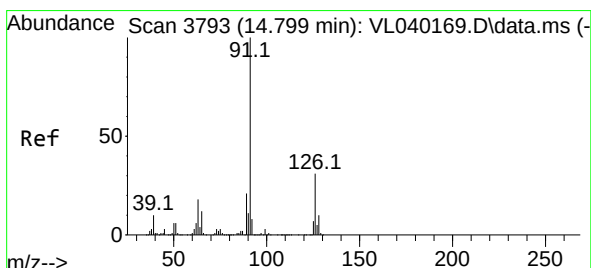
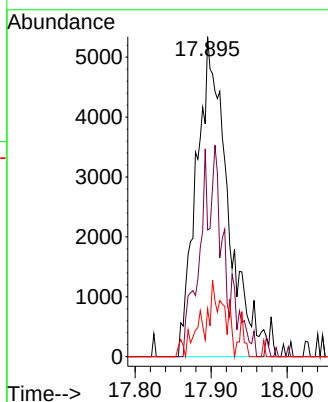
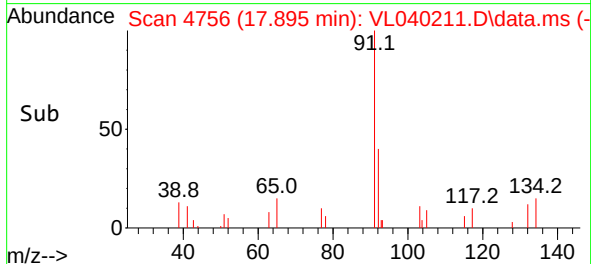
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion: 91 Resp: 1538  
Ion Ratio Lower Upper  
91 100  
92 0.0 43.0 64.6  
134 0.0 16.9 25.3

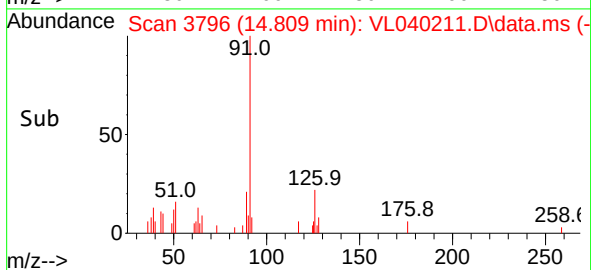
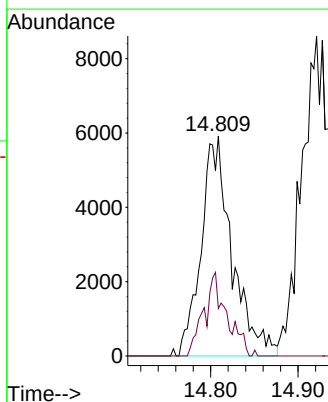
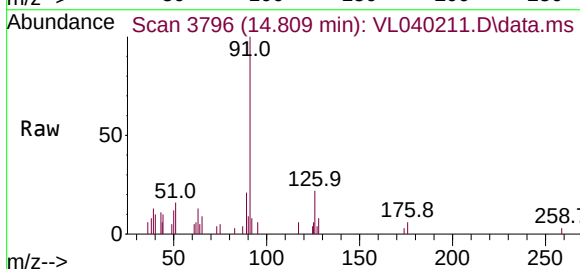
Manual Integrations  
APPROVED

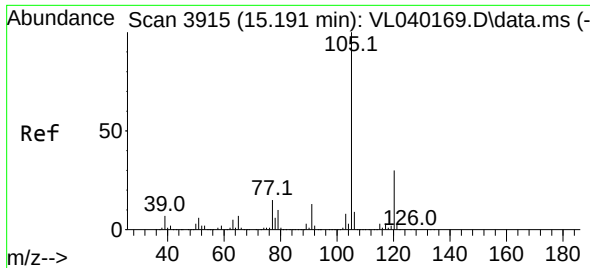
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#71  
2-Chlorotoluene  
Concen: 0.071 ppbv m  
RT: 14.809 min Scan# 3796  
Delta R.T. -0.023 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

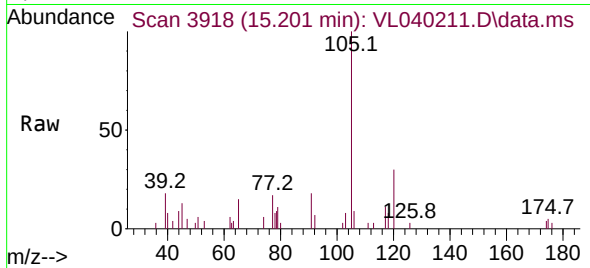
Tgt Ion: 91 Resp: 14484  
Ion Ratio Lower Upper  
91 100  
126 0.0 12.0 48.2#





#72  
4-Ethyltoluene  
Concen: 0.058 ppbv m  
RT: 15.201 min Scan# 3915  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

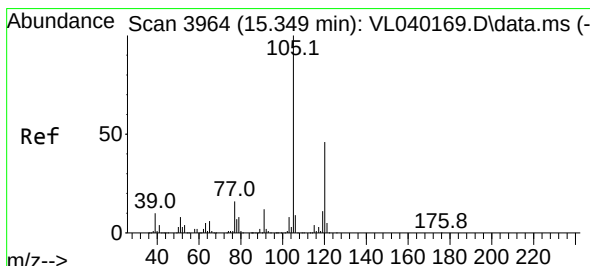
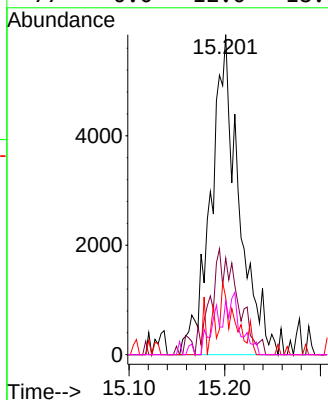
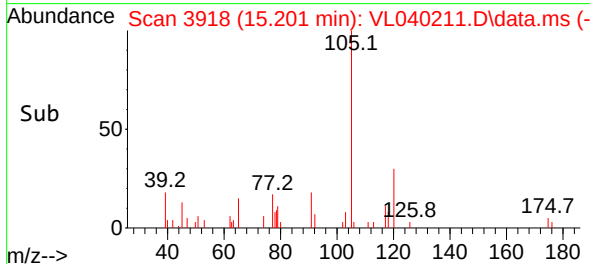
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion:105 Resp: 11869  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.2 34.8  
91 0.0 11.3 16.9  
77 0.0 12.0 18.0#

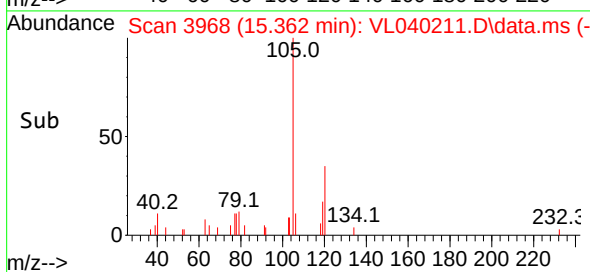
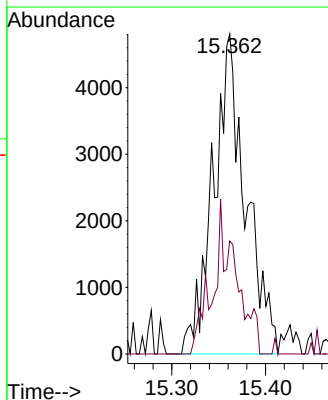
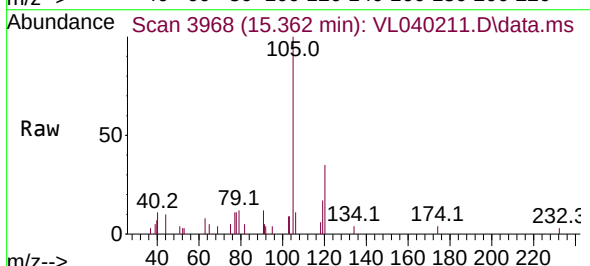
Manual Integrations  
APPROVED

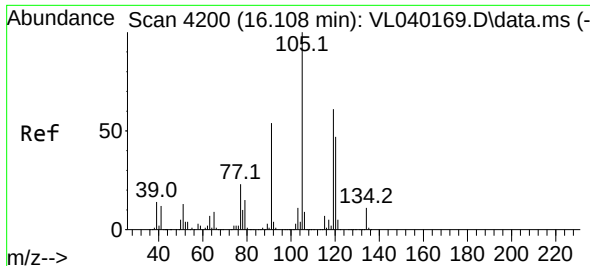
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#73  
1,3,5-Trimethylbenzene  
Concen: 0.060 ppbv m  
RT: 15.362 min Scan# 3968  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

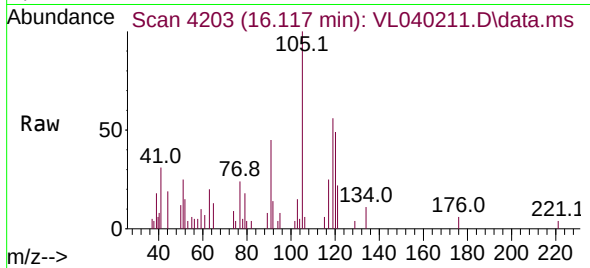
Tgt Ion:105 Resp: 11481  
Ion Ratio Lower Upper  
105 100  
120 35.3 36.8 55.2#





#74  
1,2,4-Trimethylbenzene  
Concen: 0.053 ppbv m  
RT: 16.117 min Scan# 4111  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

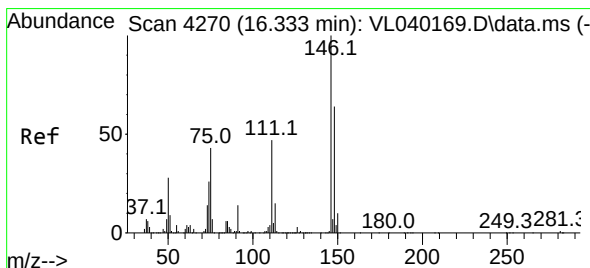
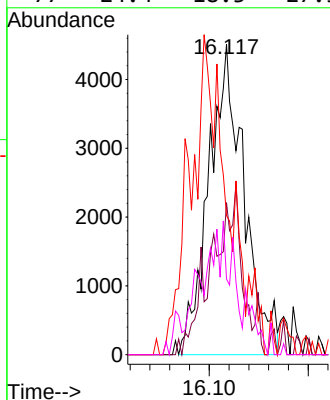
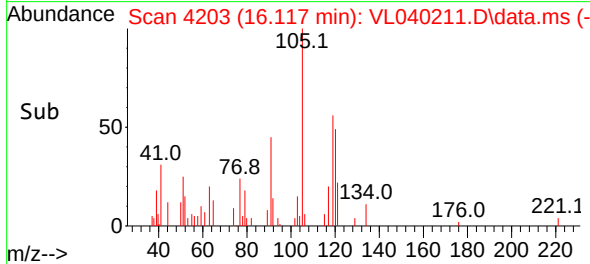
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



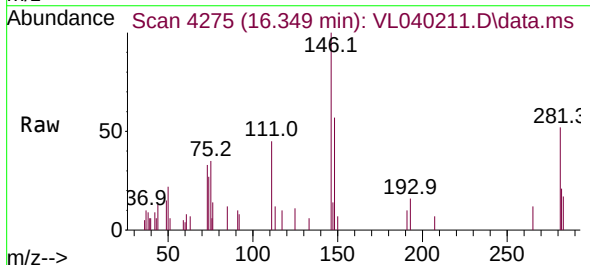
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 48.9  | 37.9  | 56.9  |
| 91      | 44.8  | 43.7  | 65.5  |
| 77      | 24.4  | 18.3  | 27.5  |

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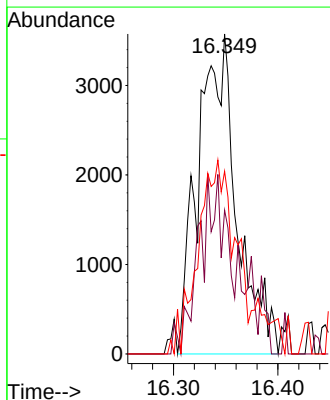
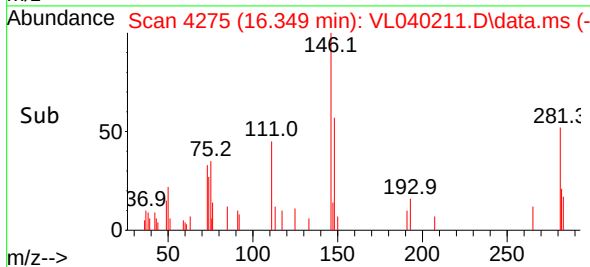
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



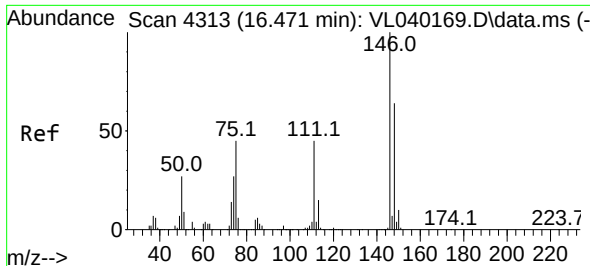
#75  
1,3-Dichlorobenzene  
Concen: 0.080 ppbv m  
RT: 16.349 min Scan# 4275  
Delta R.T. -0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 23.9  | 71.8# |
| 148     | 0.0   | 32.1  | 96.5# |

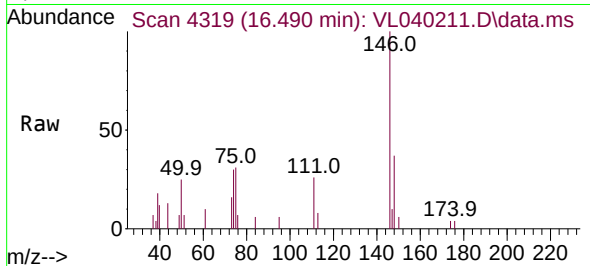






#76  
1,4-Dichlorobenzene  
Concen: 0.079 ppbv m  
RT: 16.490 min Scan# 4319  
Delta R.T. -0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

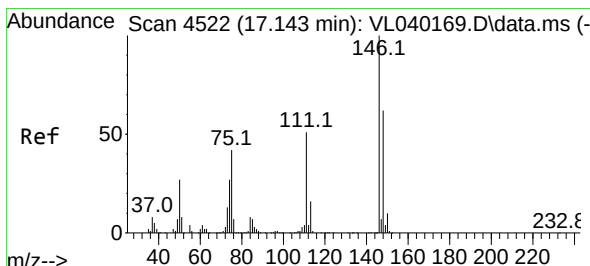
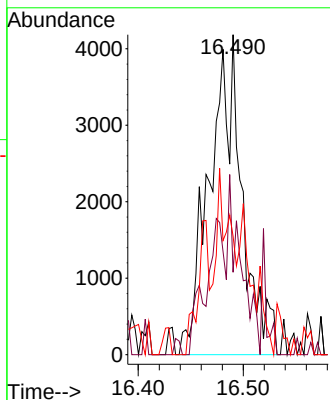
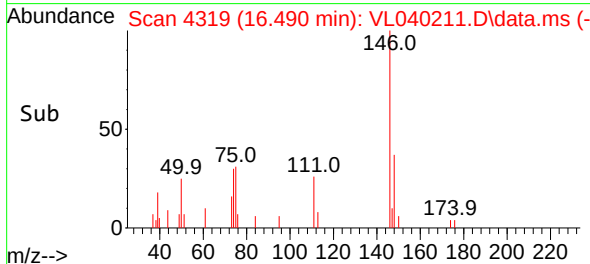
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023



Tgt Ion:146 Resp: 8960  
Ion Ratio Lower Upper  
146 100  
111 0.0 23.5 70.5#  
148 0.0 32.5 97.4#

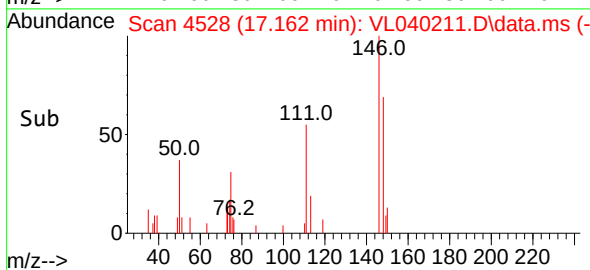
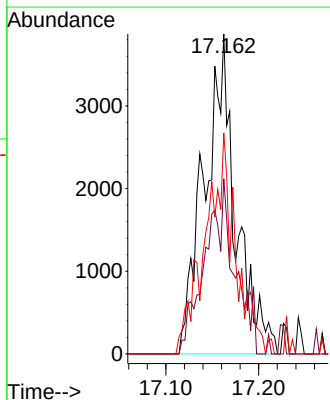
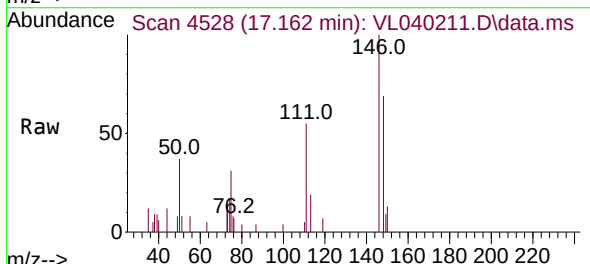
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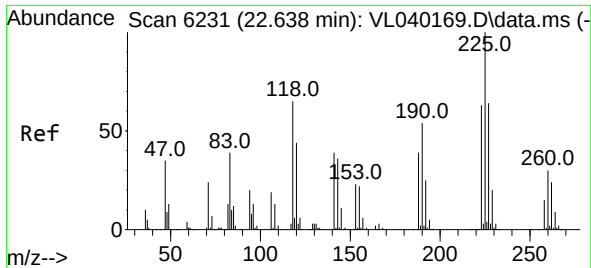
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#77  
1,2-Dichlorobenzene  
Concen: 0.079 ppbv m  
RT: 17.162 min Scan# 4528  
Delta R.T. -0.016 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion:146 Resp: 9015  
Ion Ratio Lower Upper  
146 100  
111 0.0 25.3 75.8#  
148 0.0 32.0 96.2#





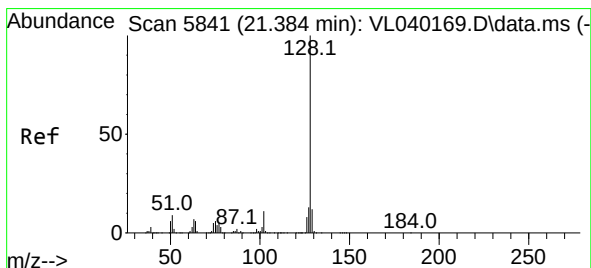
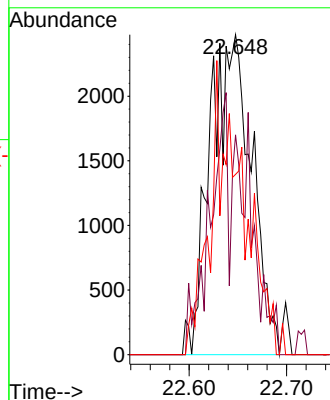
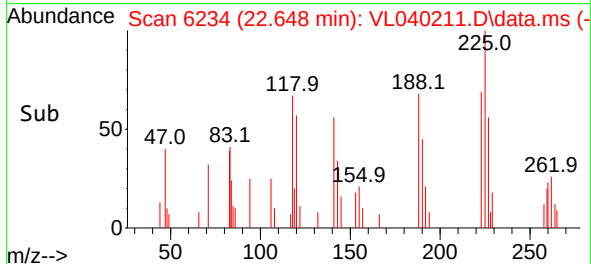
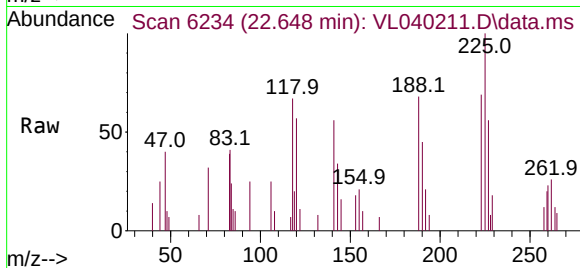
#78  
Hexachloro-1,3-Butadiene  
Concen: 0.094 ppbv m  
RT: 22.648 min Scan# 61  
Delta R.T. -0.019 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2023

Tgt Ion:225 Resp: 742  
Ion Ratio Lower Upper  
225 100  
223 0.0 51.0 76.6  
227 0.0 51.2 76.8

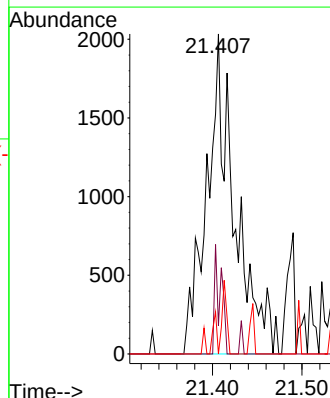
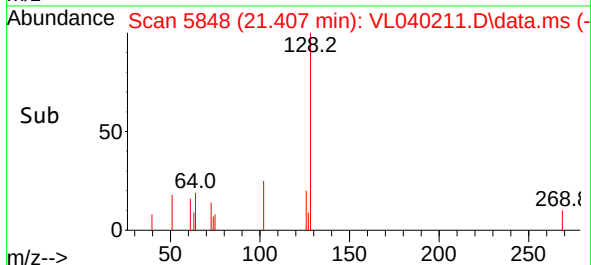
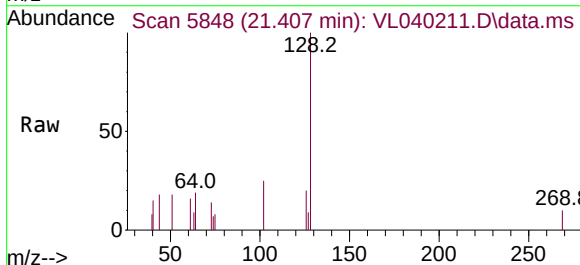
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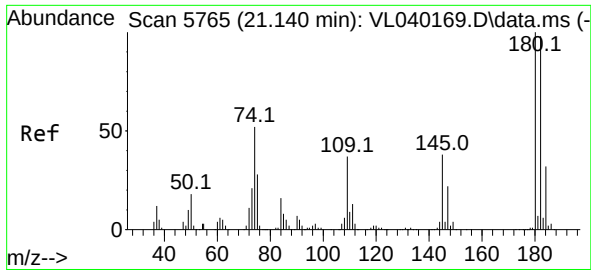
Reviewed By :Semsettin Yesilyurt 02/22/2023  
Supervised By :Mahesh Dadoda 02/23/2023



#79  
Naphthalene  
Concen: 0.037 ppbv m  
RT: 21.407 min Scan# 5848  
Delta R.T. -0.013 min  
Lab File: VL040211.D  
Acq: 22 Feb 2023 1:29

Tgt Ion:128 Resp: 4405  
Ion Ratio Lower Upper  
128 100  
127 8.8 10.2 15.4#  
129 0.0 9.4 14.0#





#81

1,2,4-Trichlorobenzene

Concen: 0.052 ppbv m

RT: 21.162 min Scan# 51

Delta R.T. -0.013 min

Lab File: VL040211.D

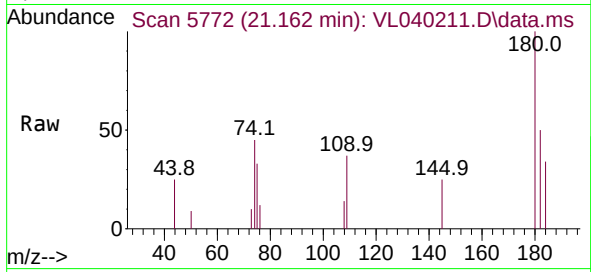
Acq: 22 Feb 2023 1:29

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2023



Tgt Ion:180 Resp: 3880

Ion Ratio Lower Upper

180 100

182 0.0 79.0 118.6

184 0.0 24.6 36.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/22/2023

Supervised By :Mahesh Dadoda 02/23/2023

