

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL080923\  
 Data File : VL040624.D  
 Acq On : 10 Aug 2023 3:22  
 Operator : SY/MD  
 Sample : 03950-01 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023  
 Supervised By :Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 04:58:00 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 10 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.192  | 49    | 861557   | 10.000   | ppbv   | -0.01    |
| 33) 1,4-Difluorobenzene     | 6.655  | 114   | 2135953  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.474 | 117   | 1931895  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.783 | 95    | 1578065  | 10.321   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 103.200% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 2.722  | 85    | 42858    | 0.249    | ppbv   | 91       |
| 9) Propene                  | 2.684  | 41    | 270128   | 5.778    | ppbv   | 91       |
| 11) Trichlorofluoromethane  | 3.558  | 101   | 18504    | 0.133    | ppbv   | 89       |
| 13) Ethanol                 | 3.237  | 45    | 31497m   | 3.097    | ppbv   |          |
| 15) Acetone                 | 3.465  | 43    | 613529   | 6.187    | ppbv   | 98       |
| 20) Methylene Chloride      | 3.928  | 84    | 942235   | 22.336   | ppbv   | 97       |
| 26) Hexane                  | 5.214  | 57    | 412013   | 4.697    | ppbv # | 38       |
| 27) Carbon Disulfide        | 4.118  | 76    | 25274m   | 0.245    | ppbv   |          |
| 29) Chloroform              | 5.275  | 83    | 75037    | 0.516    | ppbv # | 81       |
| 32) 1,1,1-Trichloroethane   | 6.005  | 97    | 455004   | 3.196    | ppbv   | 96       |
| 34) 2-Butanone              | 4.800  | 43    | 45671m   | 0.433    | ppbv   |          |
| 35) Carbon Tetrachloride    | 6.494  | 117   | 10912m   | 0.085    | ppbv   |          |
| 36) Benzene                 | 6.369  | 78    | 70345    | 0.409    | ppbv # | 94       |
| 38) Trichloroethene         | 7.304  | 130   | 20891m   | 0.321    | ppbv   |          |
| 52) Tetrachloroethene       | 10.622 | 164   | 18063m   | 0.325    | ppbv   |          |
| 53) Toluene                 | 9.233  | 91    | 85065    | 0.456    | ppbv   | 93       |
| -----                       |        |       |          |          |        |          |

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

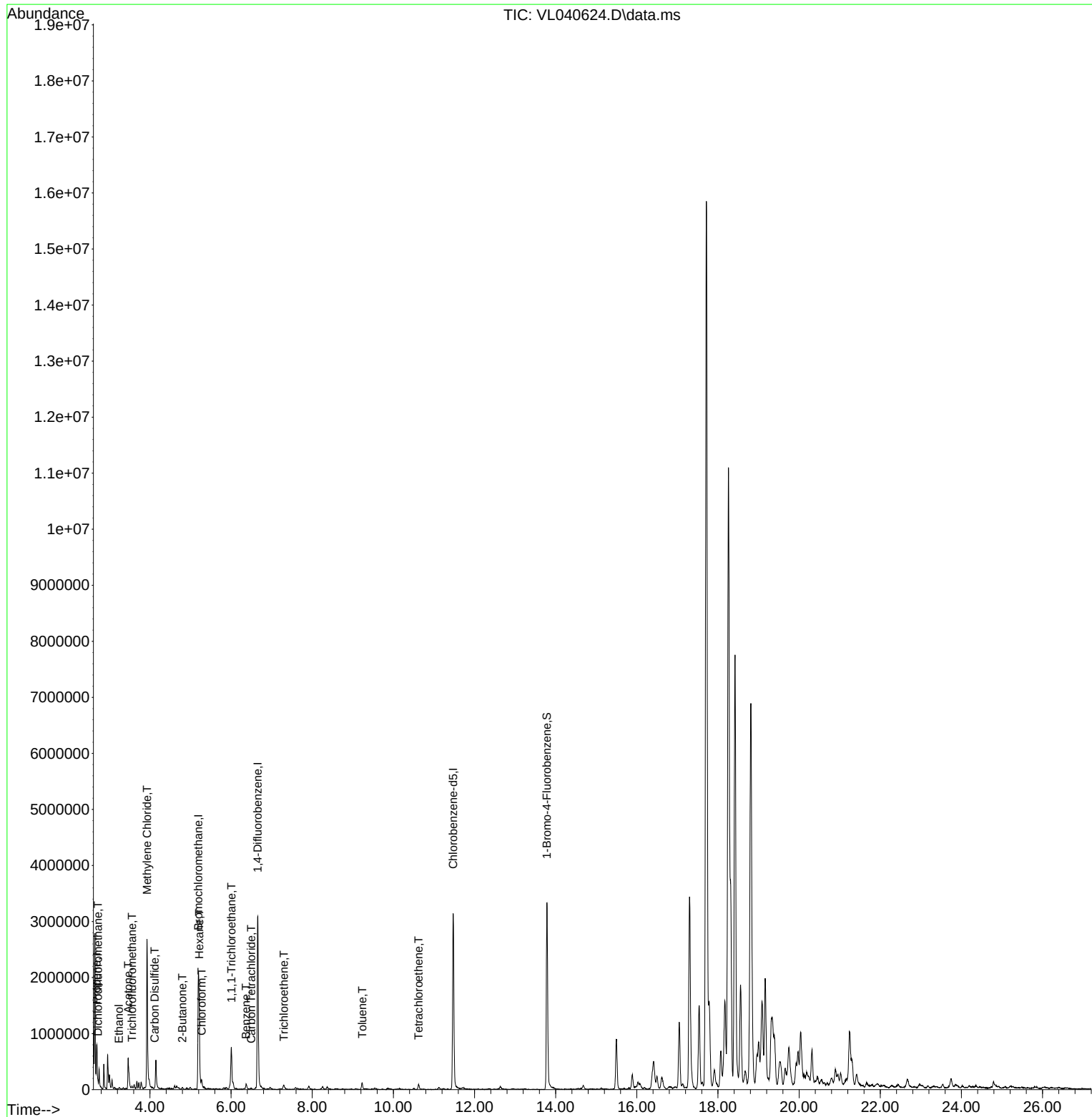
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL080923\  
Data File : VL040624.D  
Acq On : 10 Aug 2023 3:22  
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Sample : 03950-01 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

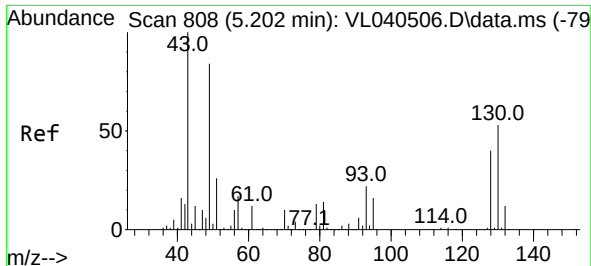
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Quant Time: Aug 10 04:58:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL071023AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Mon Jul 10 16:32:00 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

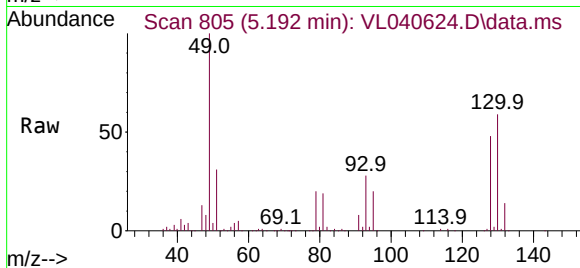
Reviewed By : Semsettin Yesilyurt 08/10/2023  
Supervised By : Mahesh Dadoda 08/10/2023





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 80  
Delta R.T. -0.010 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

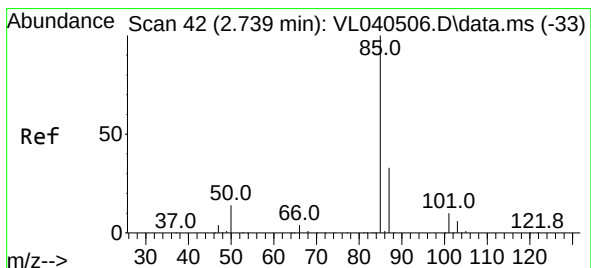
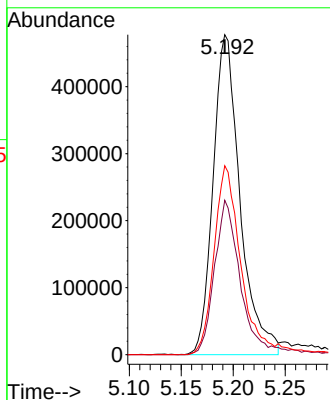
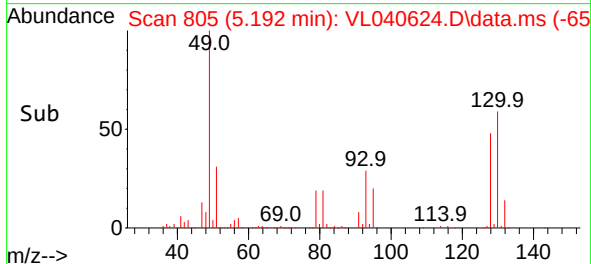
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 49 Resp: 86155  
Ion Ratio Lower Upper  
49 100  
128 48.4 25.1 75.4  
130 60.6 31.6 94.7

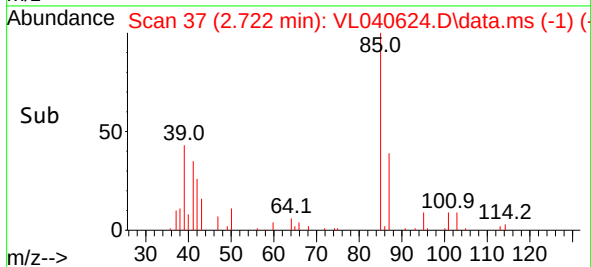
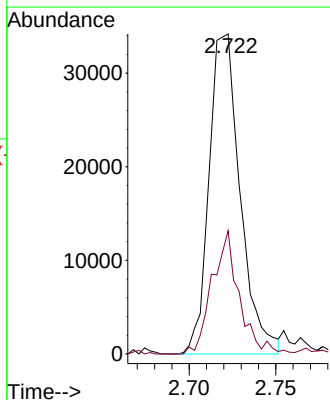
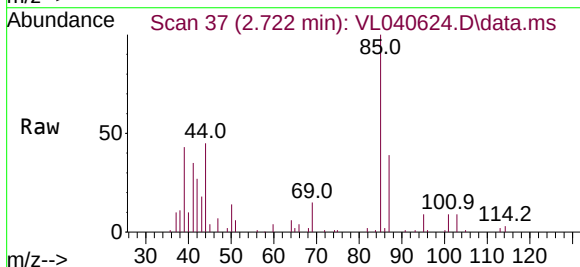
Manual Integrations  
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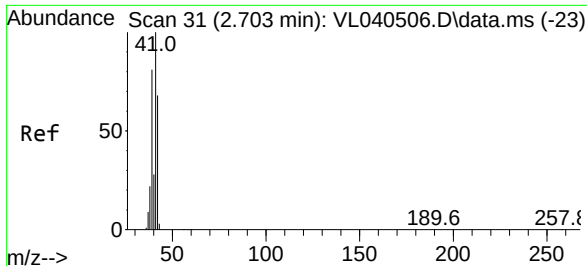
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#2  
Dichlorodifluoromethane  
Concen: 0.249 ppbv  
RT: 2.722 min Scan# 37  
Delta R.T. -0.016 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

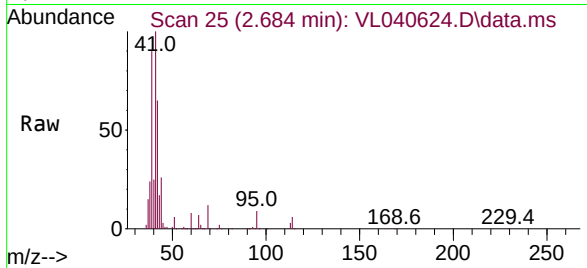
Tgt Ion: 85 Resp: 42858  
Ion Ratio Lower Upper  
85 100  
87 38.5 26.8 40.2





#9  
 Propene  
 Concen: 5.778 ppbv  
 RT: 2.684 min Scan# 21  
 Delta R.T. -0.019 min  
 Lab File: VL040624.D  
 Acq: 10 Aug 2023 3:22

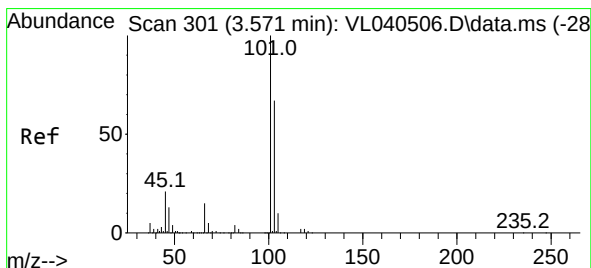
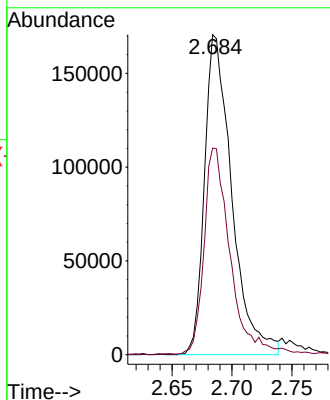
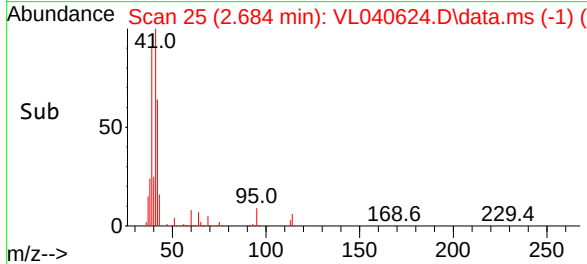
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1



Tgt Ion: 41 Resp: 270128  
 Ion Ratio Lower Upper  
 41 100  
 42 61.7 55.0 82.6

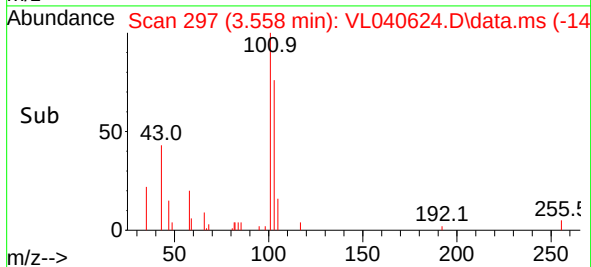
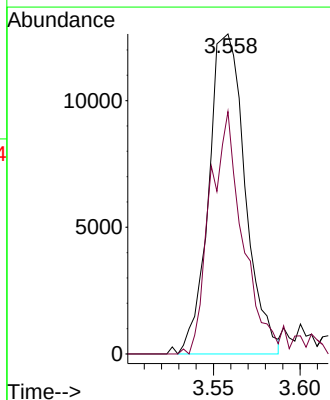
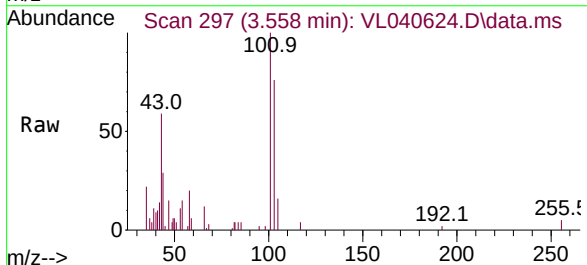
Manual Integrations  
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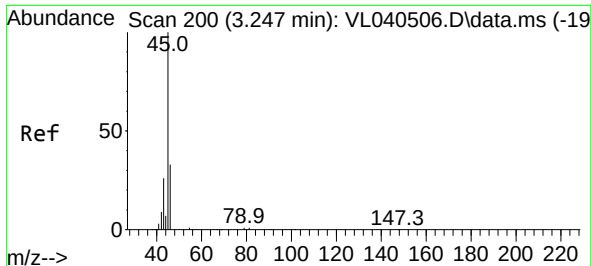
Reviewed By :Semsettin Yesilyurt 08/10/2023  
 Supervised By :Mahesh Dadoda 08/10/2023



#11  
 Trichlorofluoromethane  
 Concen: 0.133 ppbv  
 RT: 3.558 min Scan# 297  
 Delta R.T. -0.013 min  
 Lab File: VL040624.D  
 Acq: 10 Aug 2023 3:22

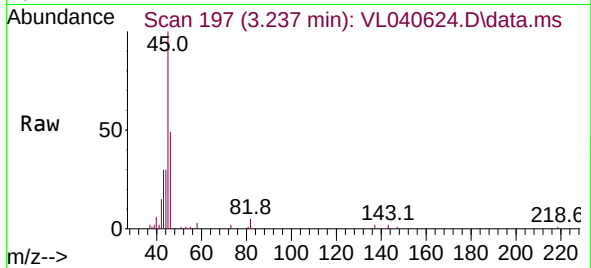
Tgt Ion:101 Resp: 18504  
 Ion Ratio Lower Upper  
 101 100  
 103 75.7 53.4 80.0





#13  
Ethanol  
Concen: 3.097 ppbv m  
RT: 3.237 min Scan# 197  
Delta R.T. -0.010 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

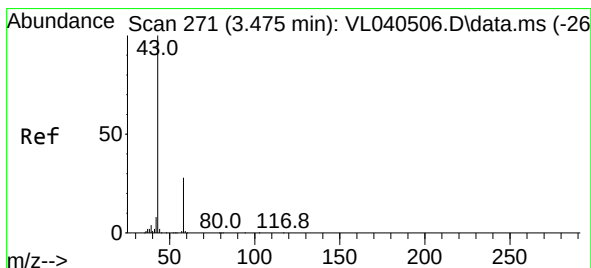
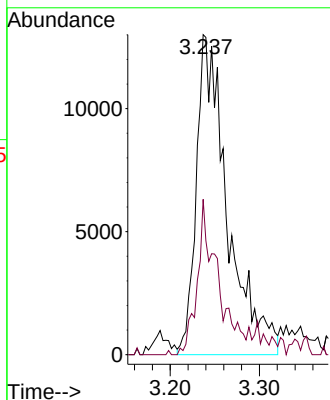
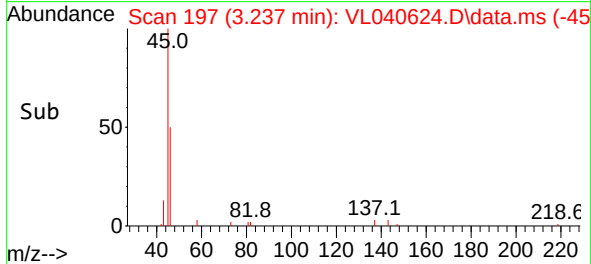
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



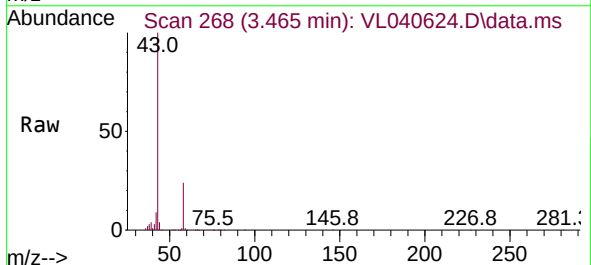
Tgt Ion: 45 Resp: 3149  
Ion Ratio Lower Upper  
45 100  
46 37.9 15.3 61.1

Manual Integrations  
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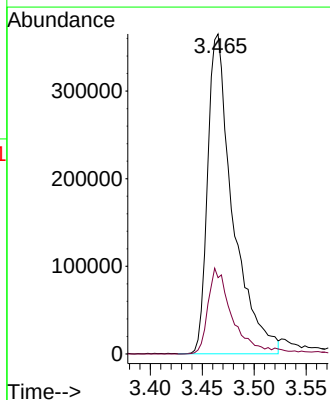
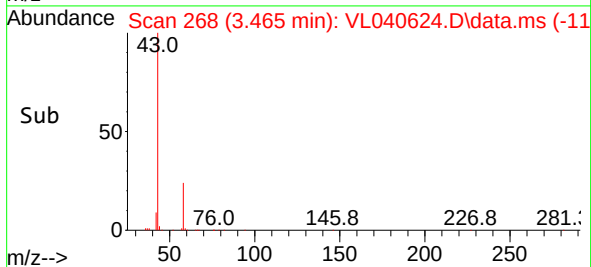
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023

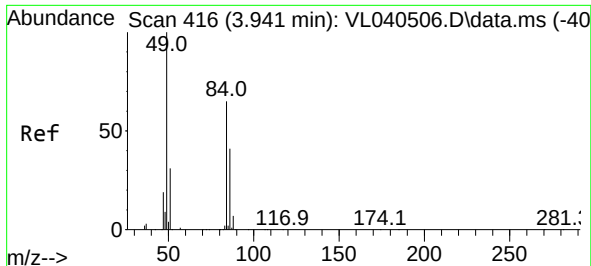


#15  
Acetone  
Concen: 6.187 ppbv  
RT: 3.465 min Scan# 268  
Delta R.T. -0.010 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22



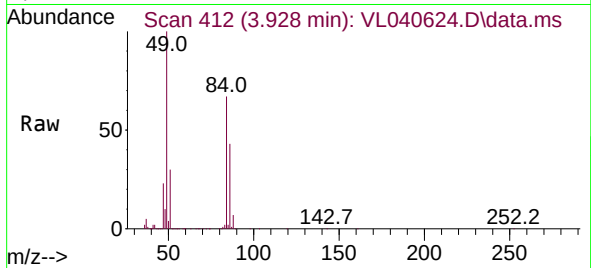
Tgt Ion: 43 Resp: 613529  
Ion Ratio Lower Upper  
43 100  
58 27.8 22.9 34.3





#20  
Methylene Chloride  
Concen: 22.336 ppbv  
RT: 3.928 min Scan# 416  
Delta R.T. -0.013 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

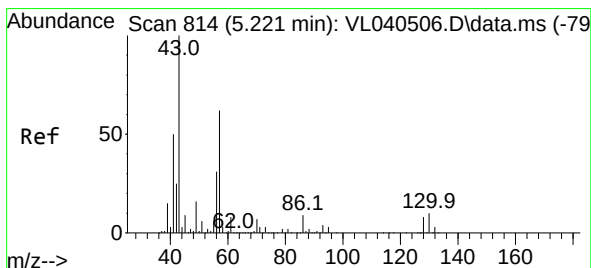
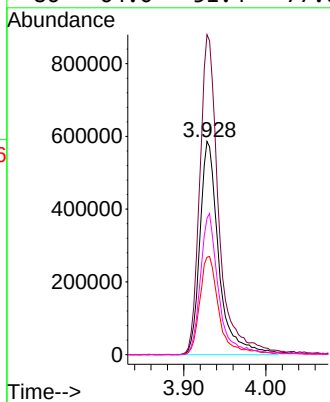
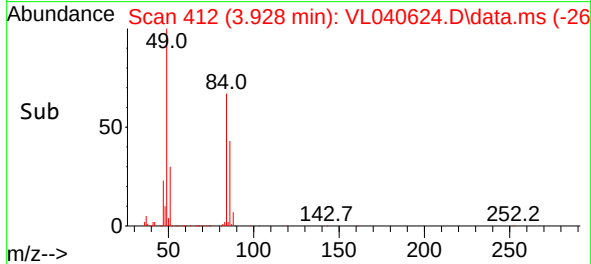
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



| Tgt Ion: | 84    | Resp: | 942239 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 150.0 | 123.4 | 185.2  |
| 51       | 45.5  | 38.3  | 57.5   |
| 86       | 64.0  | 51.4  | 77.0   |

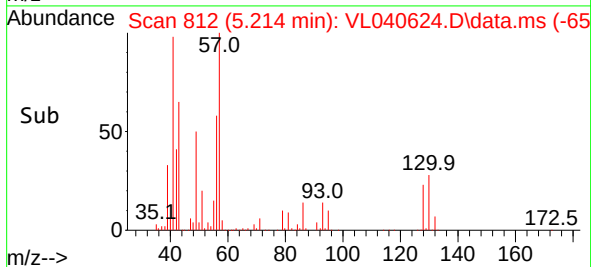
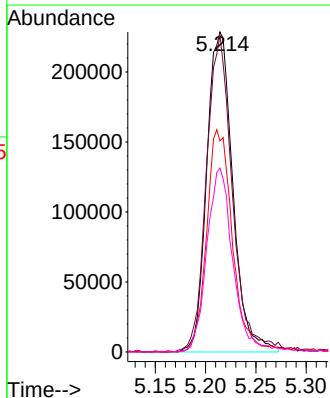
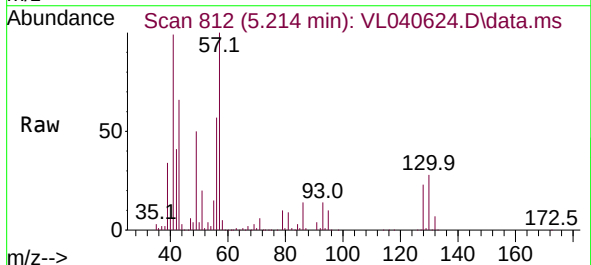
Manual Integrations  
APPROVED

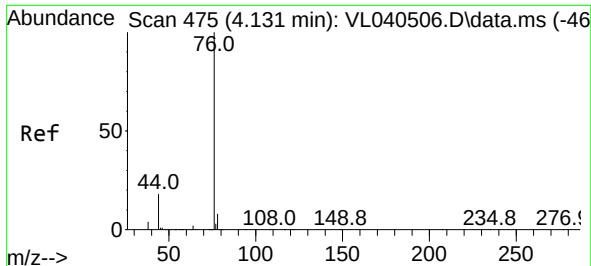
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#26  
Hexane  
Concen: 4.697 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. -0.007 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

| Tgt Ion: | 57    | Resp: | 412013 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 99.7  | 69.5  | 104.3  |
| 43       | 70.1  | 177.1 | 265.7# |
| 56       | 58.0  | 42.3  | 63.5   |





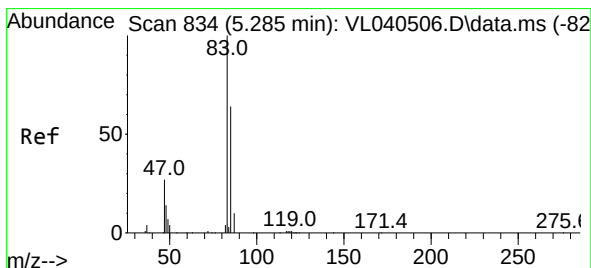
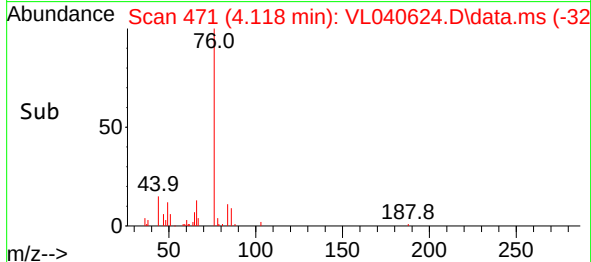
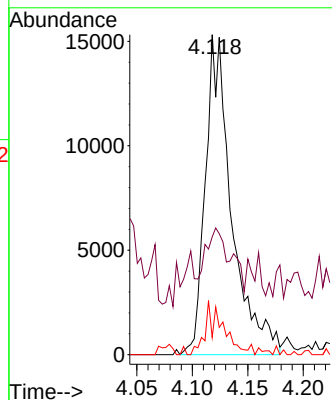
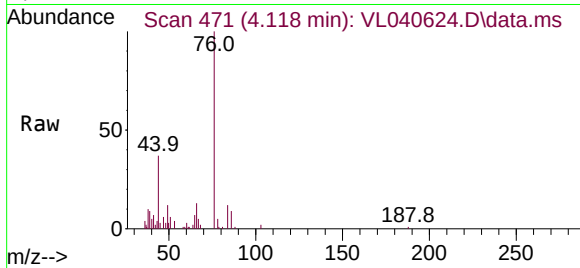
#27  
Carbon Disulfide  
Concen: 0.245 ppbv m  
RT: 4.118 min Scan# 41  
Delta R.T. -0.013 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Tgt Ion: 76 Resp: 25274  
Ion Ratio Lower Upper  
76 100  
44 41.2 15.1 22.7  
78 0.0 7.5 11.3

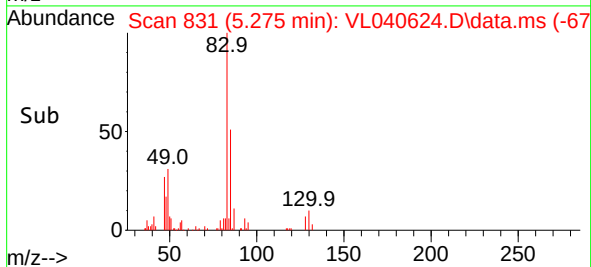
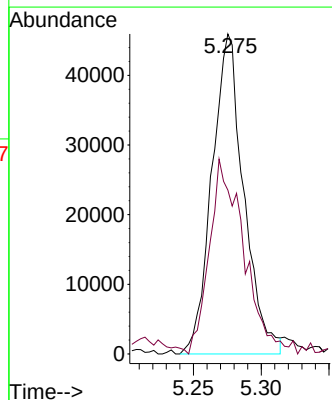
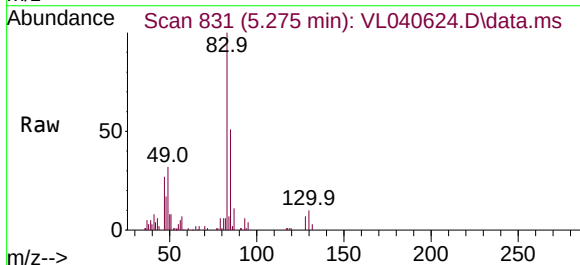
Manual Integrations  
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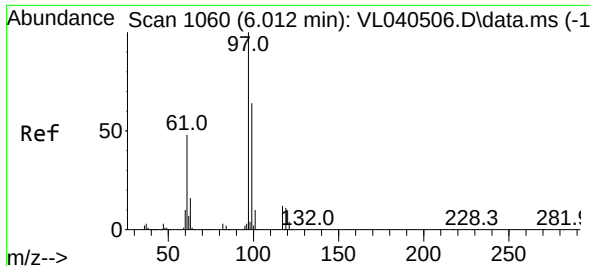
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#29  
Chloroform  
Concen: 0.516 ppbv  
RT: 5.275 min Scan# 831  
Delta R.T. -0.010 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

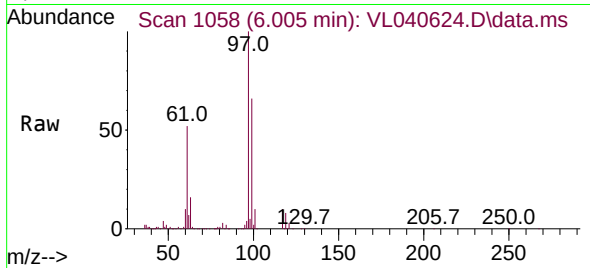
Tgt Ion: 83 Resp: 75037  
Ion Ratio Lower Upper  
83 100  
85 49.4 51.1 76.7





#32  
 1,1,1-Trichloroethane  
 Concen: 3.196 ppbv  
 RT: 6.005 min Scan# 1058  
 Delta R.T. -0.007 min  
 Lab File: VL040624.D  
 Acq: 10 Aug 2023 3:22

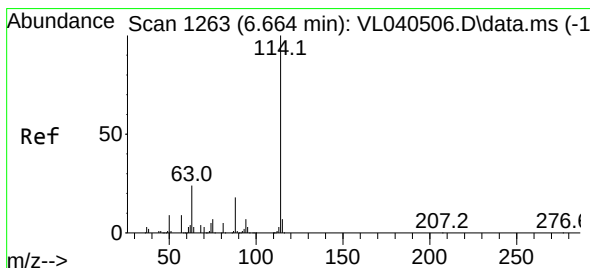
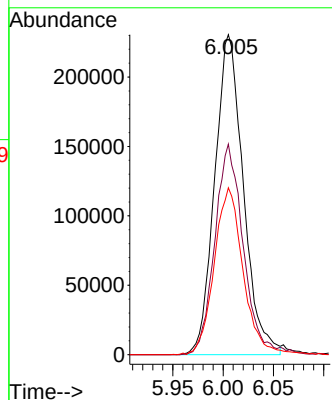
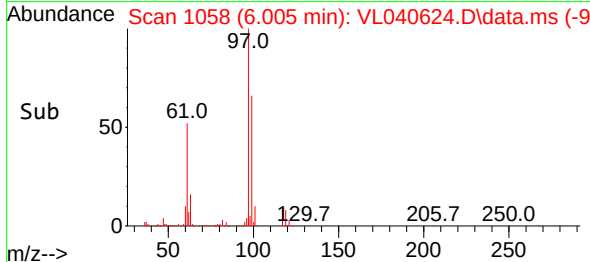
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1



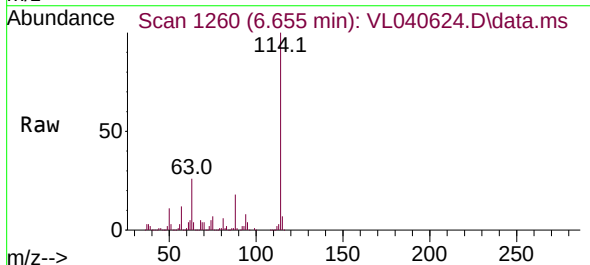
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 Ion Ratio Lower Upper  
 97 100  
 99 66.0 52.0 78.0  
 61 53.1 38.9 58.3

Manual Integrations  
 APPROVED

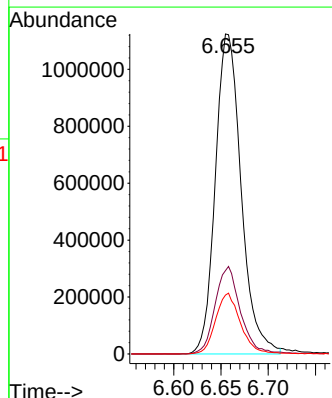
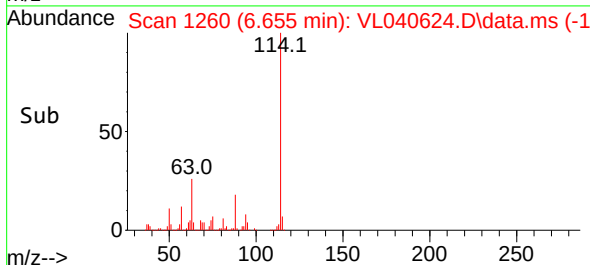
Reviewed By :Semsettin Yesilyurt 08/10/2023  
 Supervised By :Mahesh Dadoda 08/10/2023



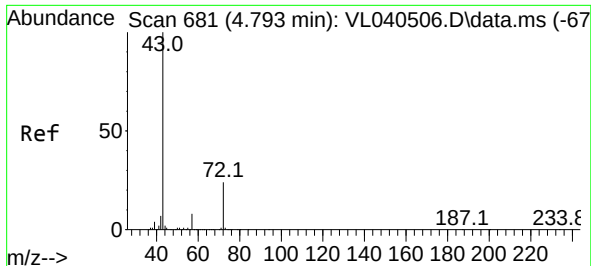
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 6.655 min Scan# 1260  
 Delta R.T. -0.010 min  
 Lab File: VL040624.D  
 Acq: 10 Aug 2023 3:22



Tgt Ion:114 Resp: 2135953  
 Ion Ratio Lower Upper  
 114 100  
 63 27.1 19.6 29.4  
 88 18.4 14.2 21.2







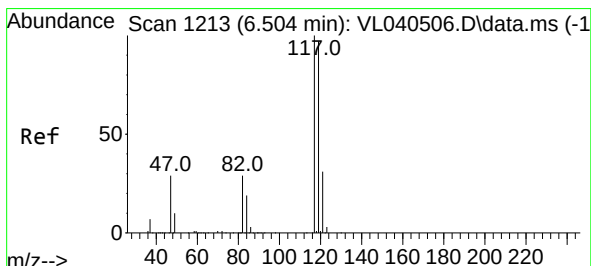
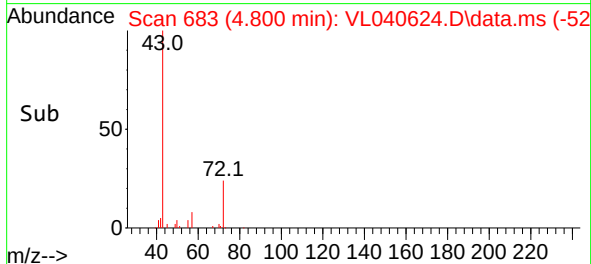
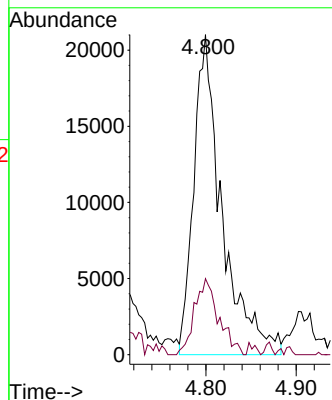
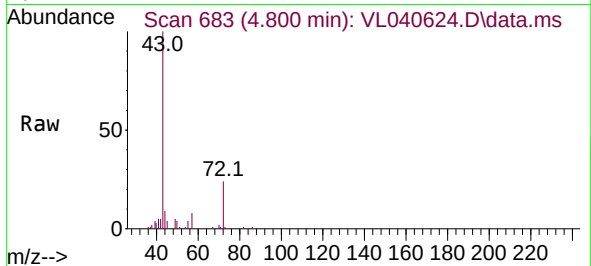
#34  
2-Butanone  
Concen: 0.433 ppbv m  
RT: 4.800 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Tgt Ion: 43 Resp: 4567  
Ion Ratio Lower Upper  
43 100  
72 20.3 19.1 28.7

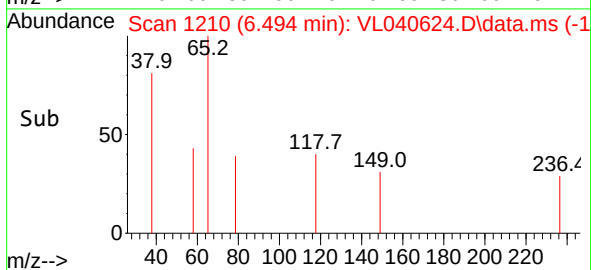
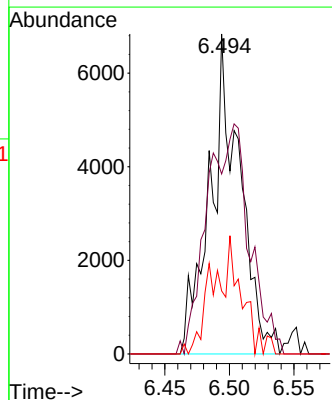
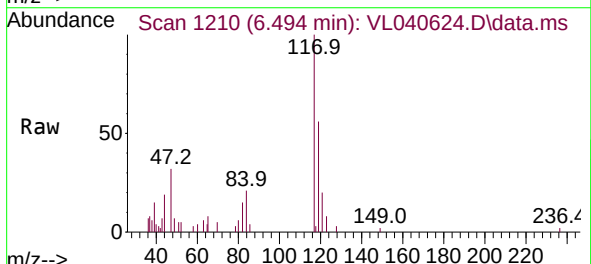
Manual Integrations  
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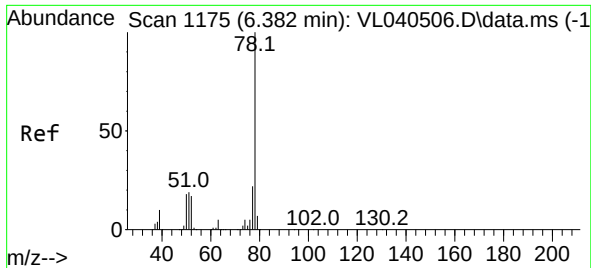
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#35  
Carbon Tetrachloride  
Concen: 0.085 ppbv m  
RT: 6.494 min Scan# 1210  
Delta R.T. -0.010 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

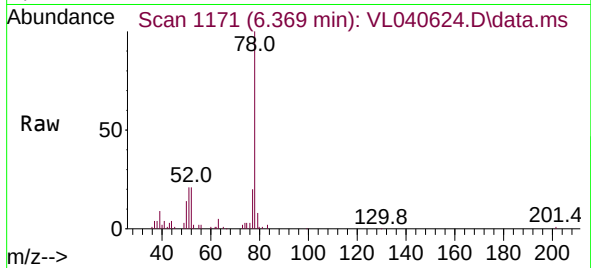
Tgt Ion:117 Resp: 10912  
Ion Ratio Lower Upper  
117 100  
119 56.3 77.8 116.6#  
121 19.7 24.8 37.2#





#36  
Benzene  
Concen: 0.409 ppbv  
RT: 6.369 min Scan# 1171  
Delta R.T. -0.013 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

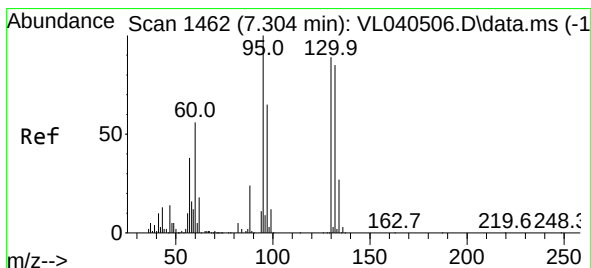
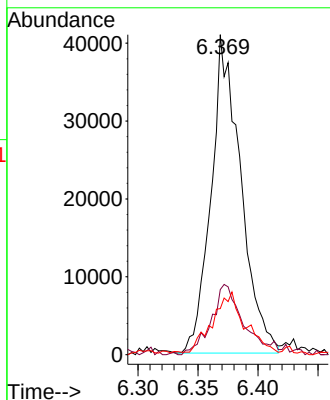
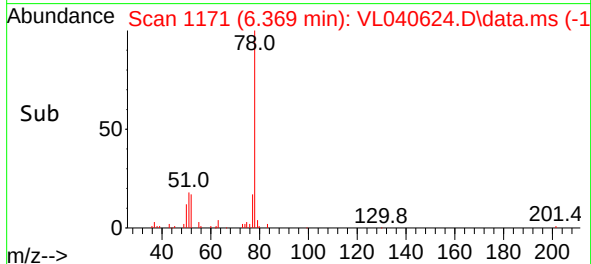
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 78 Resp: 70345  
Ion Ratio Lower Upper  
78 100  
77 20.4 17.4 26.0  
50 13.7 14.4 21.6

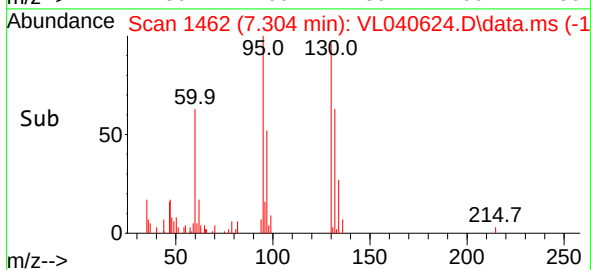
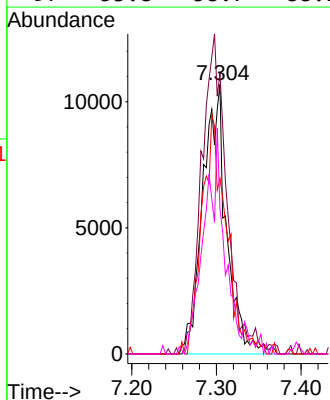
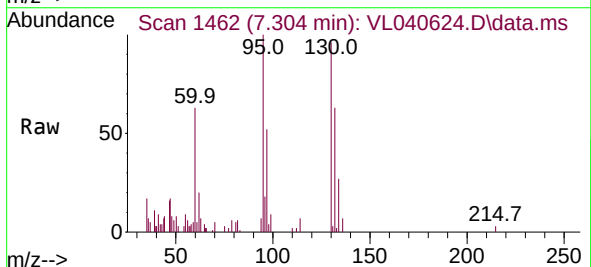
Manual Integrations  
APPROVED

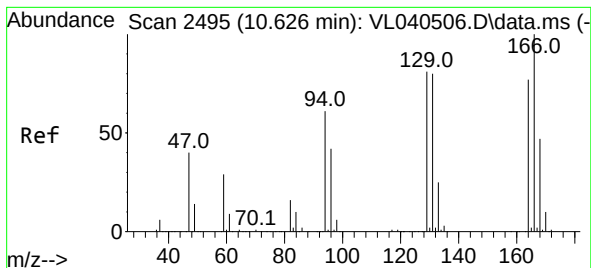
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#38  
Trichloroethene  
Concen: 0.321 ppbv m  
RT: 7.304 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

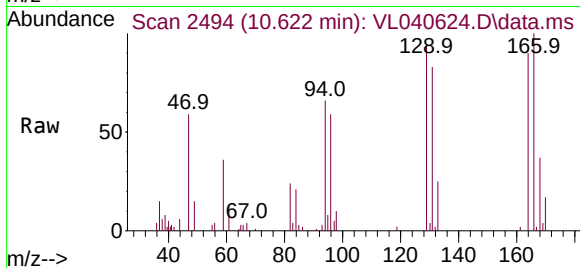
Tgt Ion:130 Resp: 20891  
Ion Ratio Lower Upper  
130 100  
95 104.2 90.2 135.2  
132 65.2 76.3 114.5#  
97 53.8 58.7 88.1#





#52  
Tetrachloroethene  
Concen: 0.325 ppbv m  
RT: 10.622 min Scan# 2495  
Delta R.T. -0.003 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

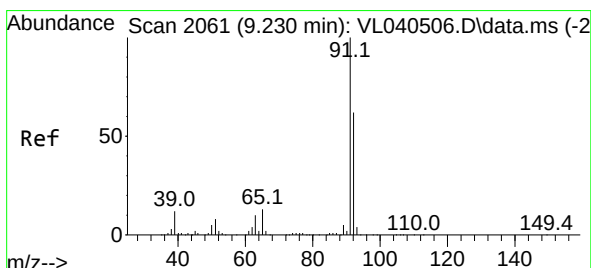
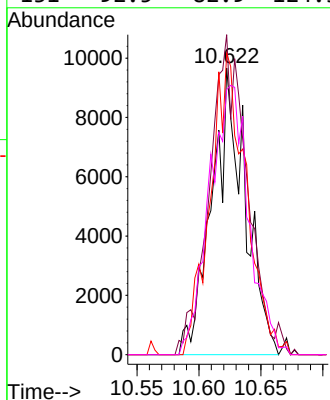
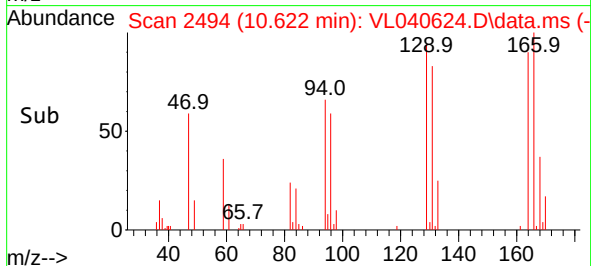
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion:164 Resp: 18065  
Ion Ratio Lower Upper  
164 100  
166 111.6 103.9 155.9  
129 105.1 84.6 126.8  
131 92.5 82.9 124.3

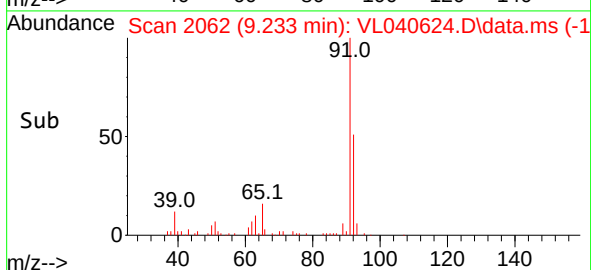
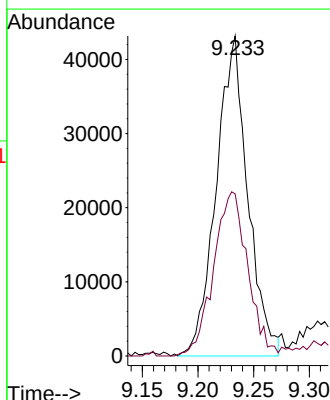
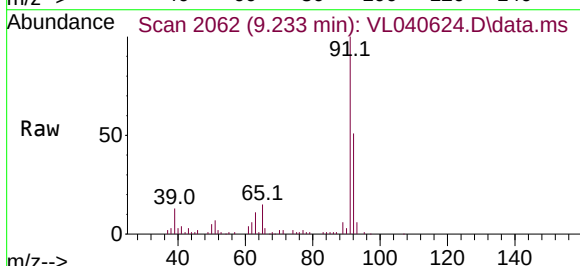
Manual Integrations  
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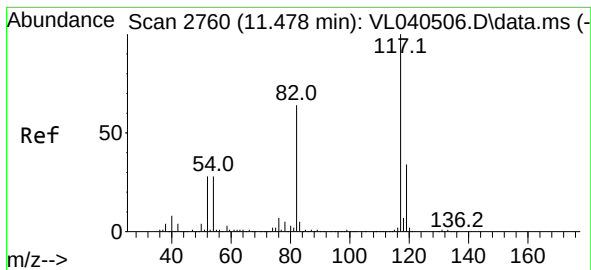
Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#53  
Toluene  
Concen: 0.456 ppbv  
RT: 9.233 min Scan# 2062  
Delta R.T. 0.003 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

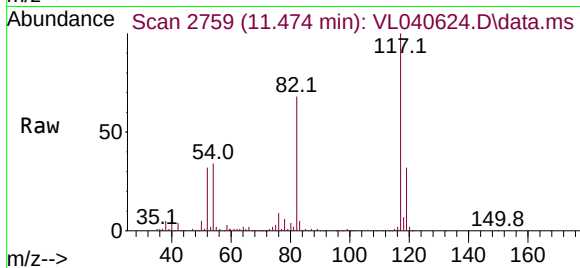
Tgt Ion: 91 Resp: 85065  
Ion Ratio Lower Upper  
91 100  
92 55.9 49.1 73.7





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.474 min Scan# 2760  
Delta R.T. -0.003 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

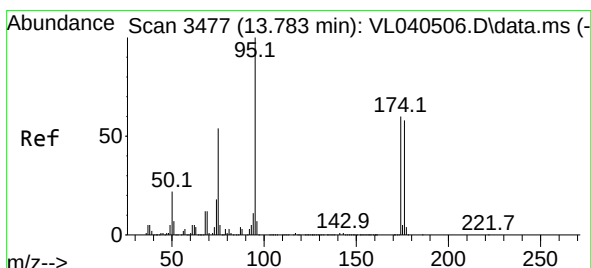
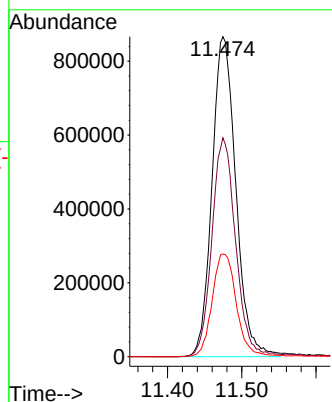
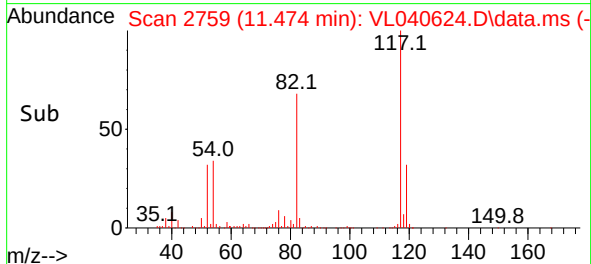
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 117 Resp: 193189  
Ion Ratio Lower Upper  
117 100  
82 69.4 50.2 75.4  
119 32.9 26.9 40.3

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/10/2023  
Supervised By :Mahesh Dadoda 08/10/2023



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.321 ppbv  
RT: 13.783 min Scan# 3477  
Delta R.T. -0.000 min  
Lab File: VL040624.D  
Acq: 10 Aug 2023 3:22

Tgt Ion: 95 Resp: 1578065  
Ion Ratio Lower Upper  
95 100  
174 59.5 50.6 75.8  
175 4.3 3.7 5.5

