

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081224\  
 Data File : VL041530.D  
 Acq On : 12 Aug 2024 10:44  
 Operator : SY/MD  
 Sample : P3496-07DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/13/2024  
 Supervised By :Mahesh Dadoda 08/13/2024

Quant Time: Aug 13 02:11:52 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LFri Aug 13 2024

QLast Update : Tue Aug 13 02:09:20 2024

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.195  | 49    | 1058054  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.655  | 114   | 2796189  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.465 | 117   | 2590114  | 10.000   | ppbv   | # 0.00   |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 1992603  | 9.997    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 100.000% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 2.742  | 85    | 100374   | 0.551    | ppbv   | 99       |
| 3) Chlorodifluoromethane    | 2.687  | 51    | 30825    | 0.245    | ppbv   | 99       |
| 4) Chloromethane            | 2.825  | 50    | 6453     | 0.096    | ppbv   | 95       |
| 9) Propene                  | 2.716  | 41    | 2349396m | 40.604   | ppbv   |          |
| 10) Heptane                 | 7.584  | 43    | 166746m  | 1.283    | ppbv   |          |
| 13) Ethanol                 | 3.246  | 45    | 299428   | 57.899   | ppbv   | 91       |
| 15) Acetone                 | 3.472  | 43    | 2625238  | 21.838   | ppbv # | 77       |
| 20) Methylene Chloride      | 3.941  | 84    | 79561    | 1.775    | ppbv   | 95       |
| 26) Hexane                  | 5.217  | 57    | 126488   | 1.277    | ppbv # | 9        |
| 30) Cyclohexane             | 6.603  | 84    | 53575    | 0.664    | ppbv # | 86       |
| 34) 2-Butanone              | 4.787  | 43    | 5185202  | 38.335   | ppbv   | 99       |
| 36) Benzene                 | 6.372  | 78    | 48332m   | 0.237    | ppbv   |          |
| 51) 2-Hexanone              | 9.571  | 43    | 42271m   | 0.262    | ppbv   |          |
| 53) Toluene                 | 9.224  | 91    | 26757m   | 0.118    | ppbv   |          |
| 58) Ethyl Benzene           | 12.092 | 91    | 59634    | 0.200    | ppbv # | 85       |
| 59) m/p-Xylene              | 12.343 | 91    | 126611   | 0.491    | ppbv   | 93       |
| 60) o-Xylene                | 13.060 | 91    | 41715m   | 0.171    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

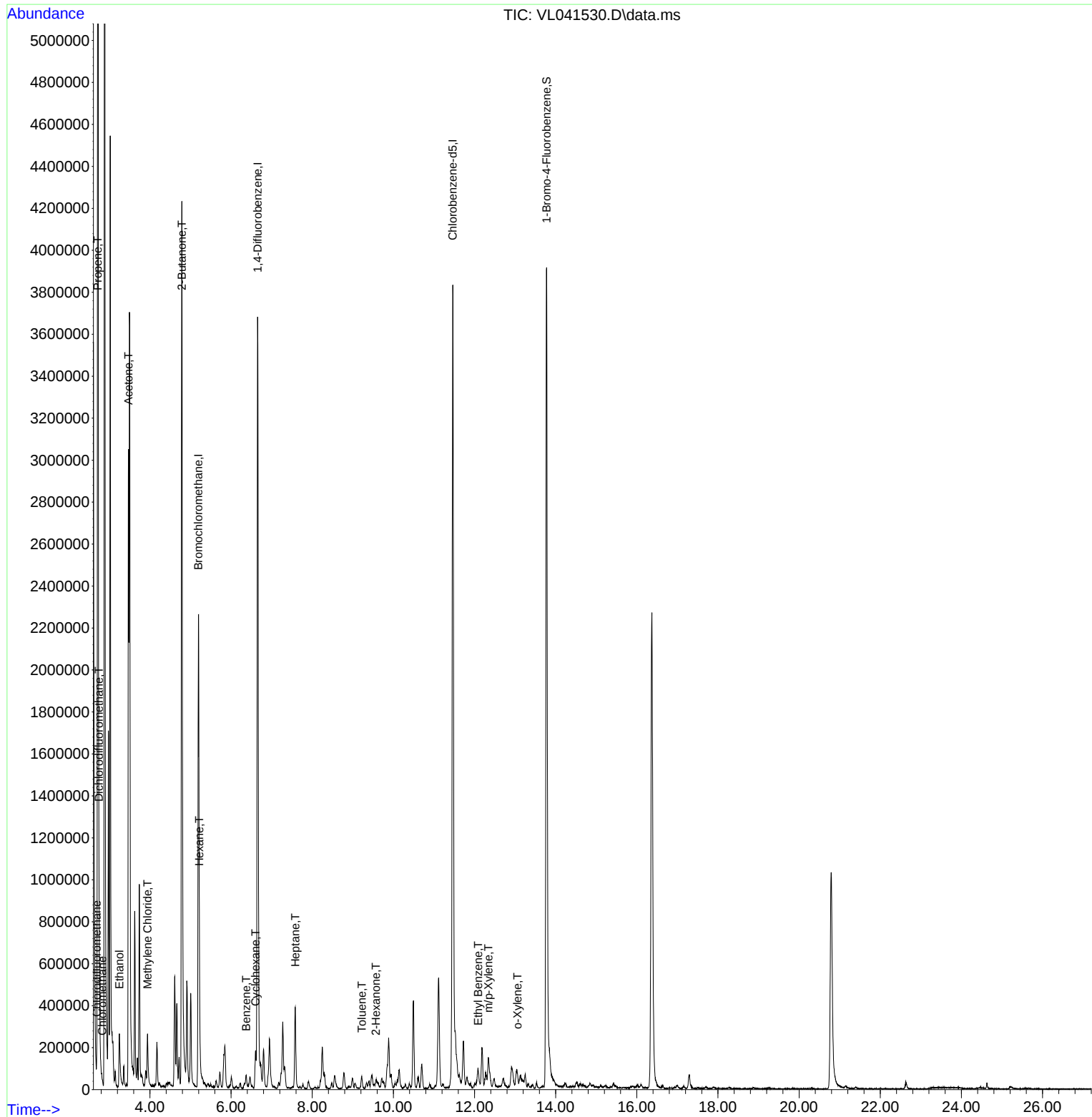
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081224\  
Data File : VL041530.D  
Acq On : 12 Aug 2024 10:44  
Operator : SY/MD  
Sample : P3496-07DL 20X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

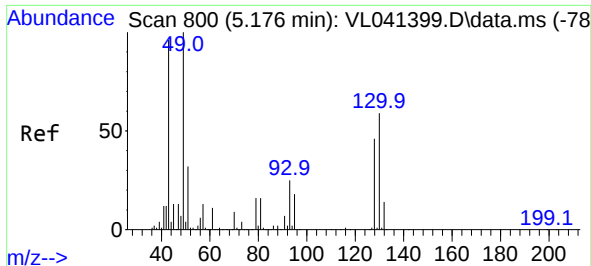
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL

Quant Time: Aug 13 02:11:52 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072524AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Aug 13 02:09:20 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

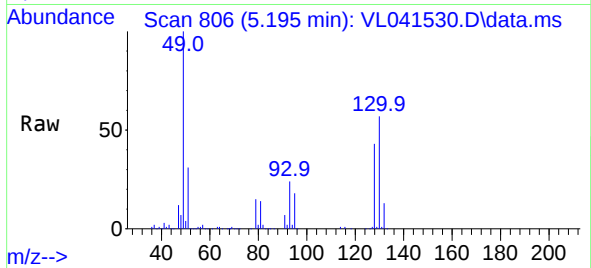
Reviewed By : Semsettin Yesilyurt 08/13/2024  
Supervised By : Mahesh Dadoda 08/13/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.195 min Scan# 80  
Delta R.T. 0.007 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

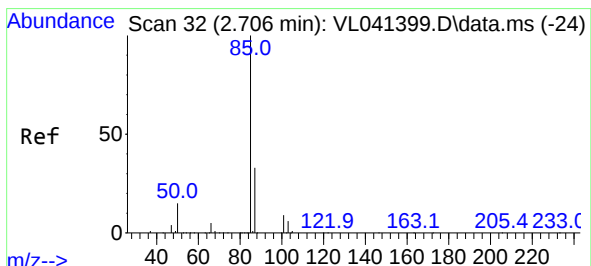
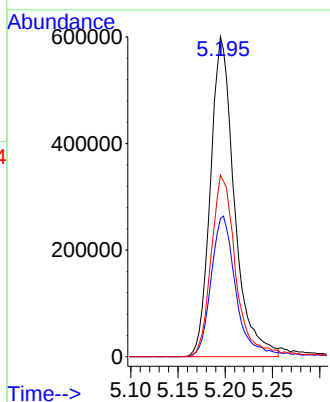
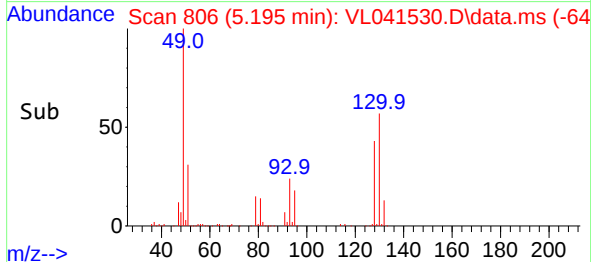
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



Tgt Ion: 49 Resp: 1058054  
Ion Ratio Lower Upper  
49 100  
128 46.4 23.8 71.4  
130 60.1 30.8 92.4

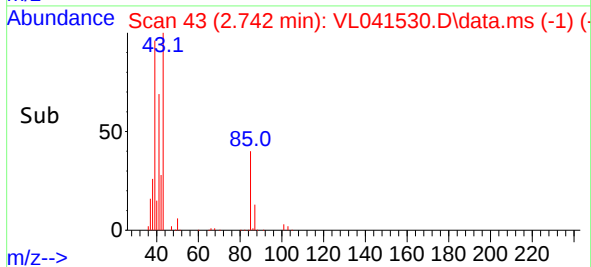
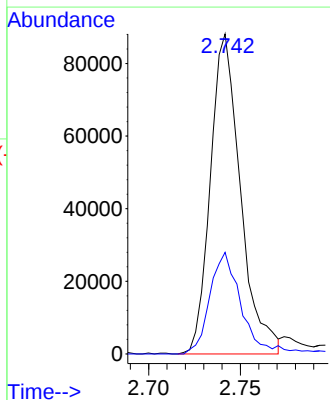
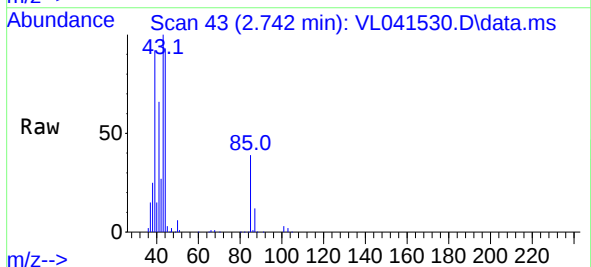
Manual Integrations  
APPROVED

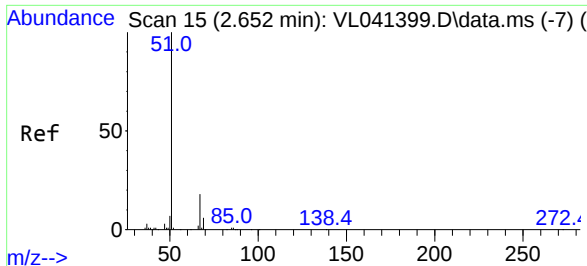
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024



#2  
Dichlorodifluoromethane  
Concen: 0.551 ppbv  
RT: 2.742 min Scan# 43  
Delta R.T. 0.013 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

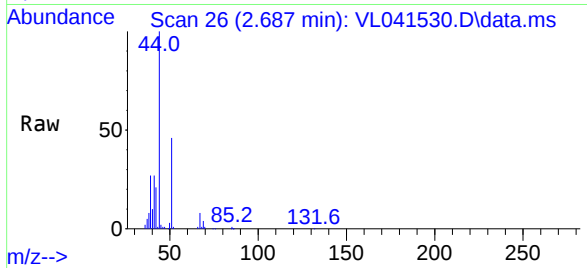
Tgt Ion: 85 Resp: 100374  
Ion Ratio Lower Upper  
85 100  
87 31.7 26.0 39.0





#3  
Chlorodifluoromethane  
Concen: 0.245 ppbv  
RT: 2.687 min Scan# 20  
Delta R.T. 0.013 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

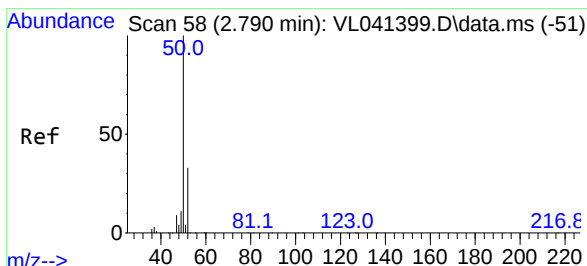
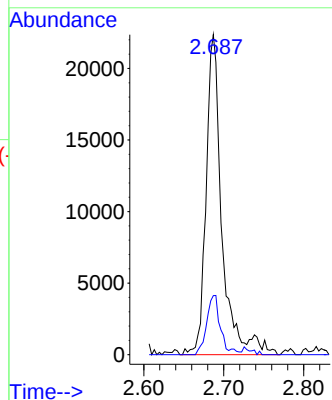
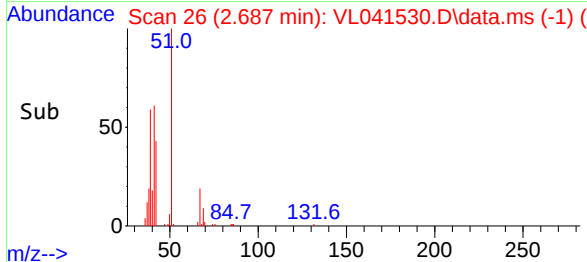
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



Tgt Ion: 51 Resp: 3082  
Ion Ratio Lower Upper  
51 100  
67 17.5 14.5 21.7

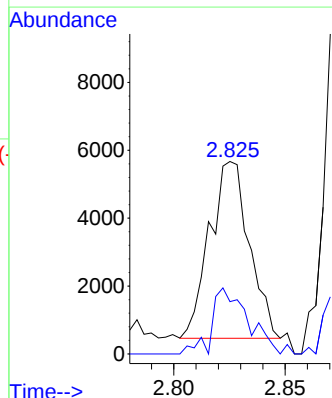
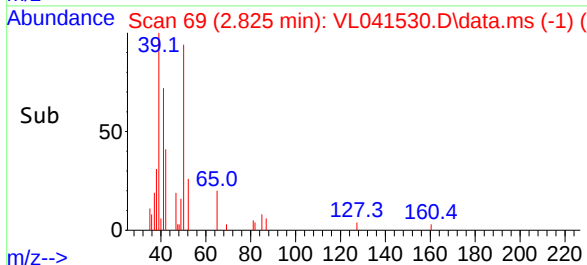
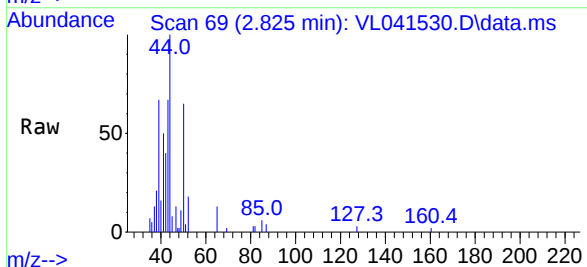
Manual Integrations  
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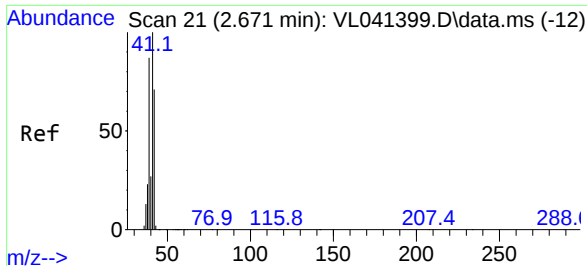
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024



#4  
Chloromethane  
Concen: 0.096 ppbv  
RT: 2.825 min Scan# 69  
Delta R.T. 0.013 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

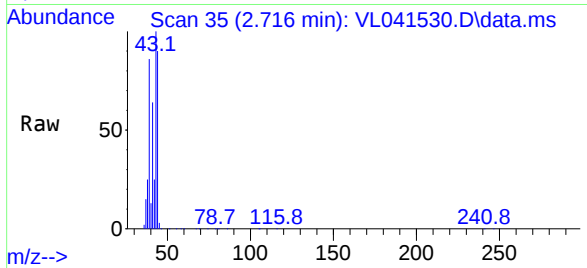
Tgt Ion: 50 Resp: 6453  
Ion Ratio Lower Upper  
50 100  
52 29.6 26.1 39.1





#9  
Propene  
Concen: 40.604 ppbv m  
RT: 2.716 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

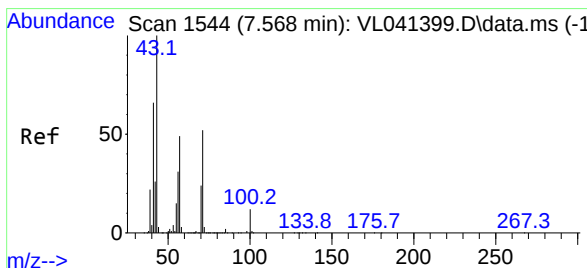
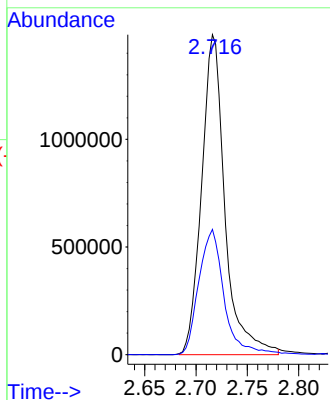
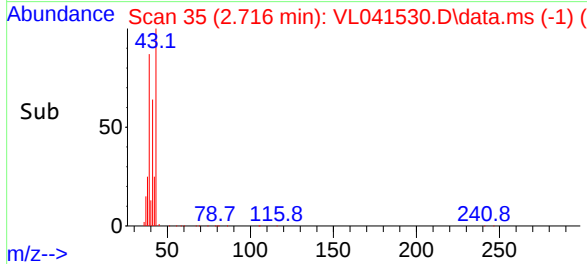
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



Tgt Ion: 41 Resp: 2349390  
Ion Ratio Lower Upper  
41 100  
42 73.9 55.9 83.9

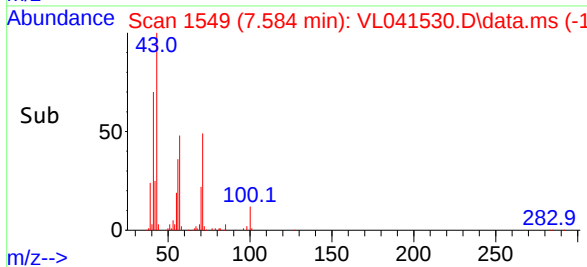
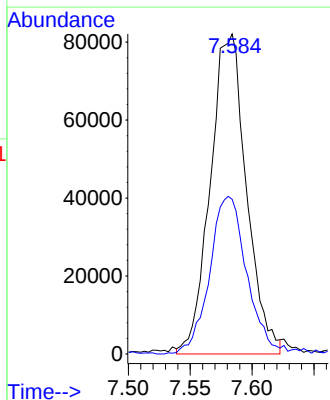
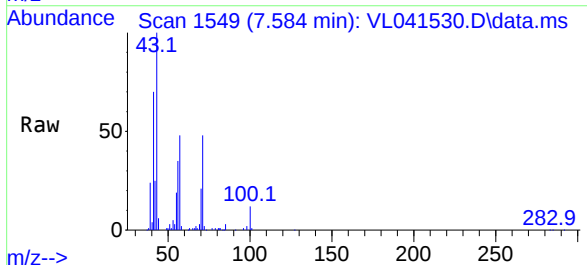
Manual Integrations  
APPROVED

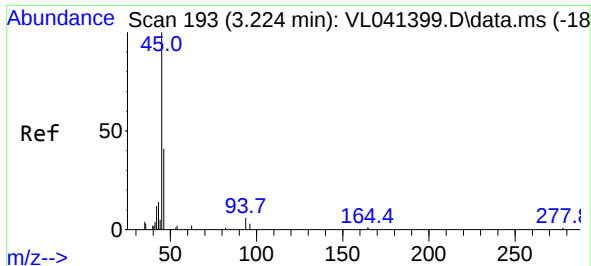
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024



#10  
Heptane  
Concen: 1.283 ppbv m  
RT: 7.584 min Scan# 1549  
Delta R.T. 0.006 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

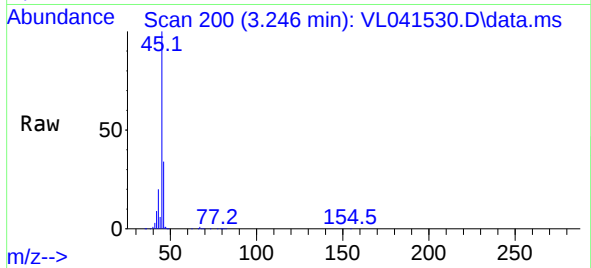
Tgt Ion: 43 Resp: 166746  
Ion Ratio Lower Upper  
43 100  
57 51.6 40.5 60.7





#13  
Ethanol  
Concen: 57.899 ppbv  
RT: 3.246 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

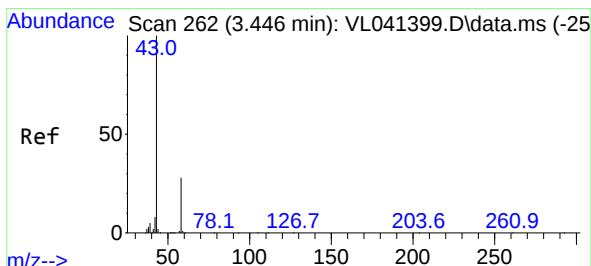
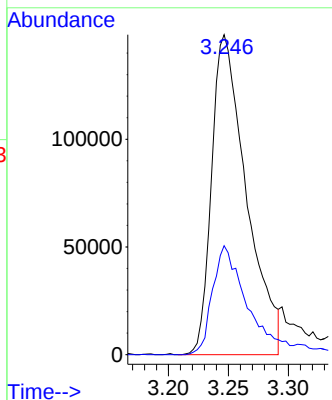
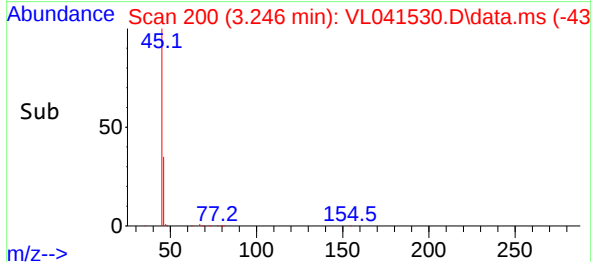
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



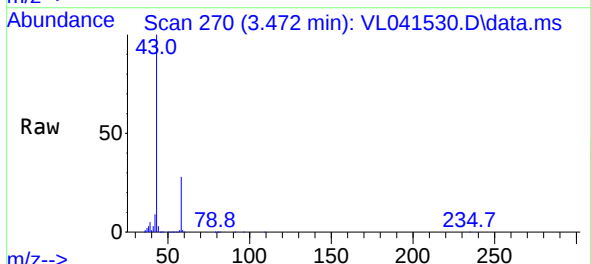
Tgt Ion: 45 Resp: 299428  
Ion Ratio Lower Upper  
45 100  
46 38.3 13.4 53.4

Manual Integrations  
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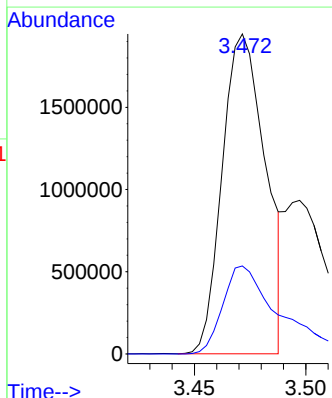
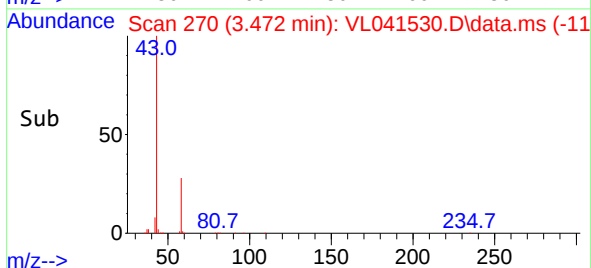
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024

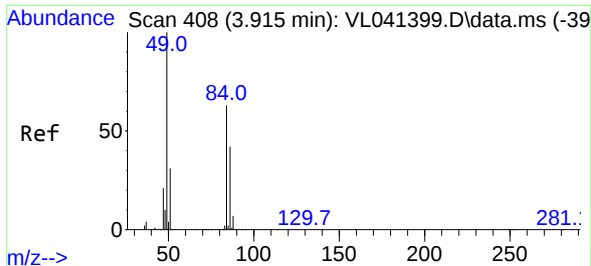


#15  
Acetone  
Concen: 21.838 ppbv  
RT: 3.472 min Scan# 270  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44



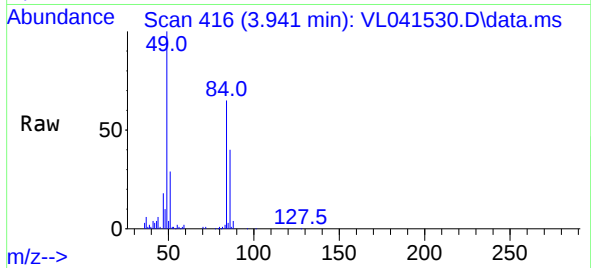
Tgt Ion: 43 Resp: 2625238  
Ion Ratio Lower Upper  
43 100  
58 38.7 21.4 32.2#





#20  
Methylene Chloride  
Concen: 1.775 ppbv  
RT: 3.941 min Scan# 416  
Delta R.T. 0.010 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

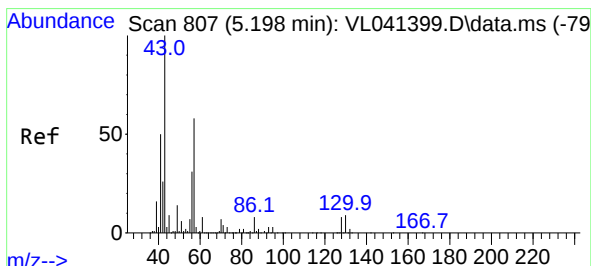
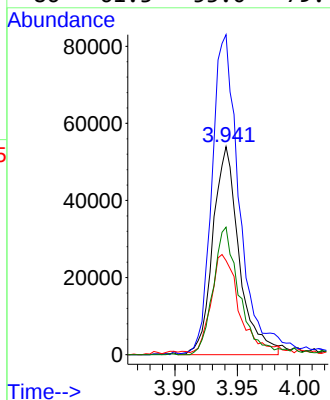
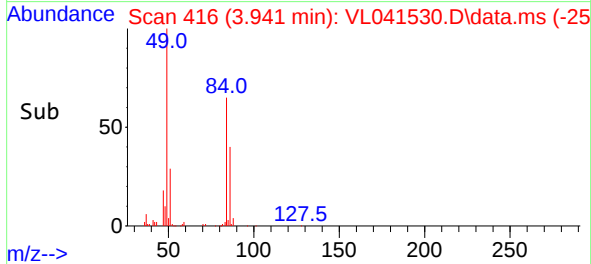
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



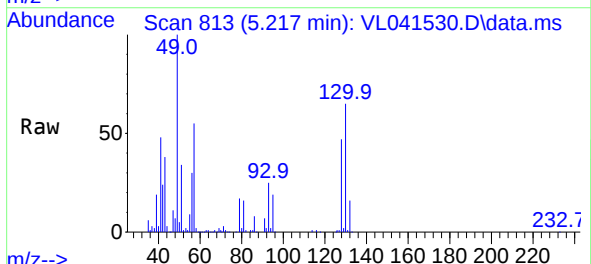
Tgt Ion: 84 Resp: 7956  
Ion Ratio Lower Upper  
84 100  
49 153.3 126.6 190.0  
51 43.7 38.6 58.0  
86 61.3 53.0 79.4

Manual Integrations  
APPROVED

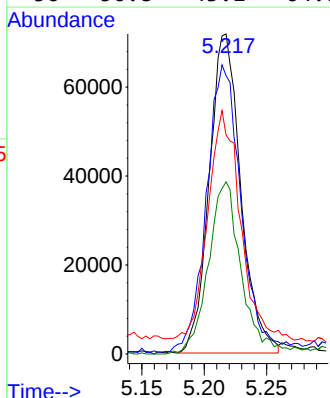
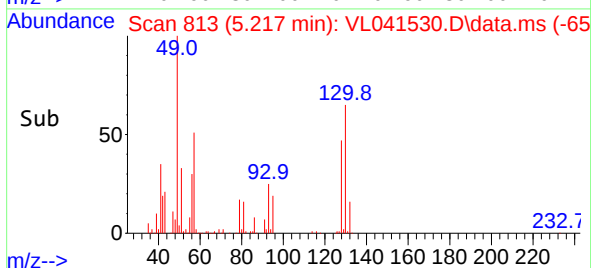
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Supervised By :Mahesh Dadoda 08/13/2024

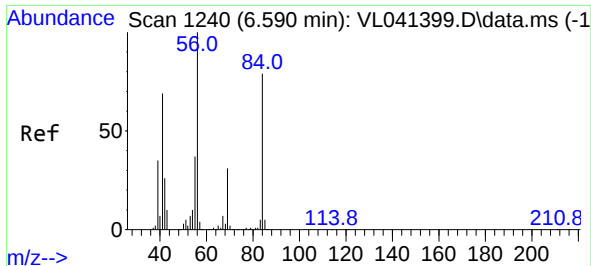


#26  
Hexane  
Concen: 1.277 ppbv  
RT: 5.217 min Scan# 813  
Delta R.T. 0.006 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44



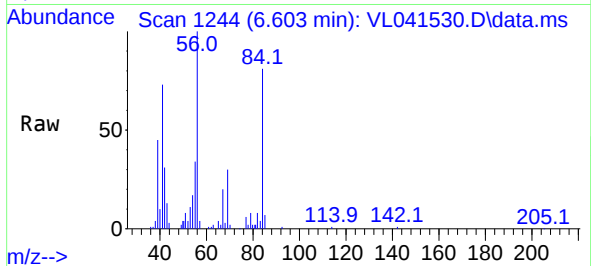
Tgt Ion: 57 Resp: 126488  
Ion Ratio Lower Upper  
57 100  
41 101.9 74.0 111.0  
43 0.0 193.6 290.4#  
56 56.8 43.1 64.7





#30  
Cyclohexane  
Concen: 0.664 ppbv  
RT: 6.603 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

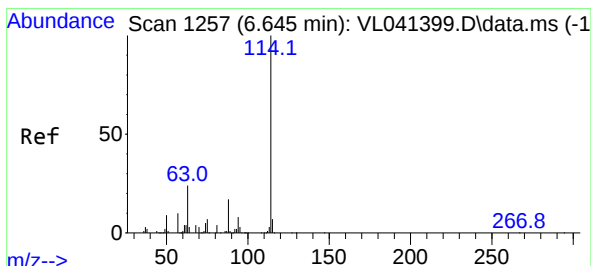
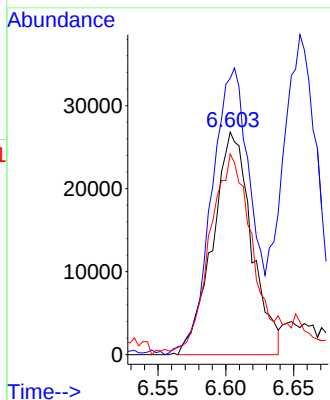
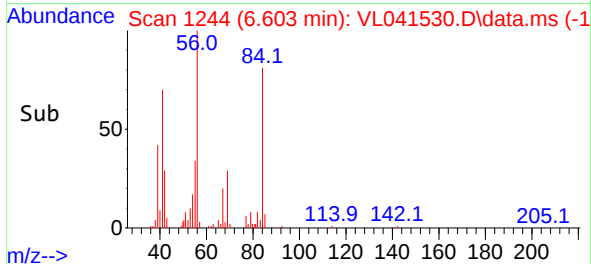
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



Tgt Ion: 84 Resp: 5357  
Ion Ratio Lower Upper  
84 100  
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41 106.8 70.3 105.5

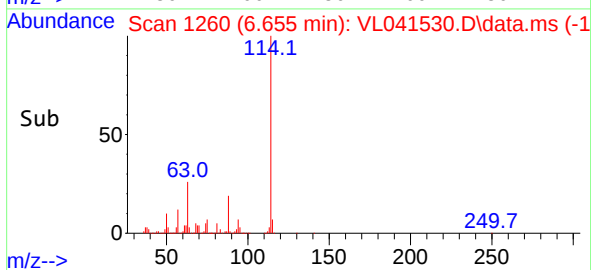
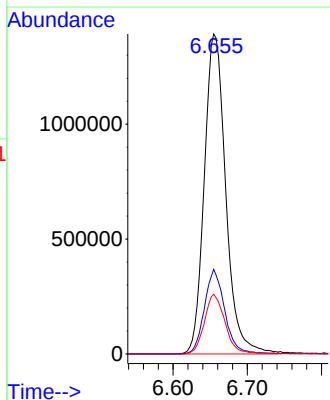
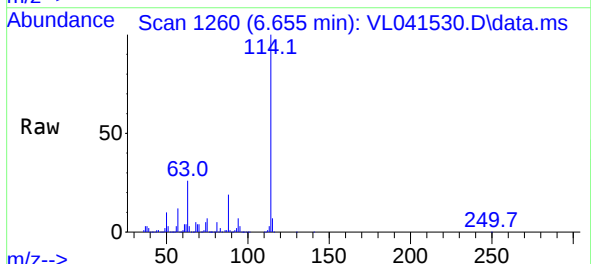
Manual Integrations  
APPROVED

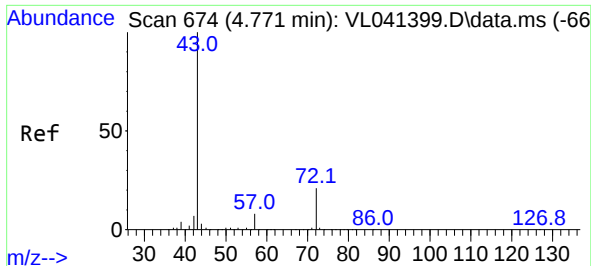
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.655 min Scan# 1260  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

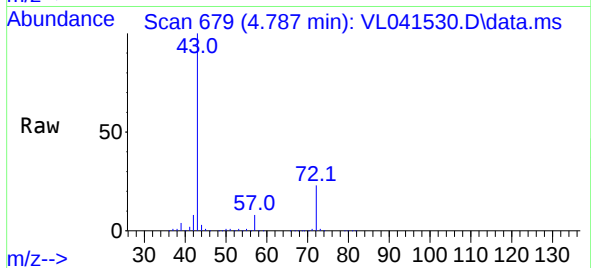
Tgt Ion:114 Resp: 2796189  
Ion Ratio Lower Upper  
114 100  
63 25.3 20.3 30.5  
88 18.1 14.3 21.5





#34  
2-Butanone  
Concen: 38.335 ppbv  
RT: 4.787 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

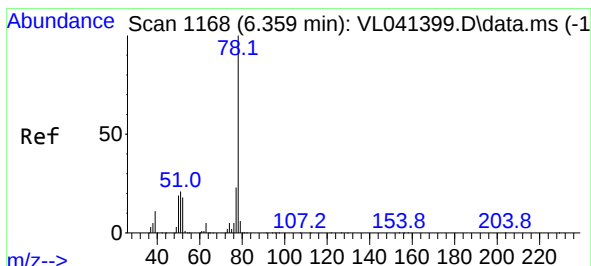
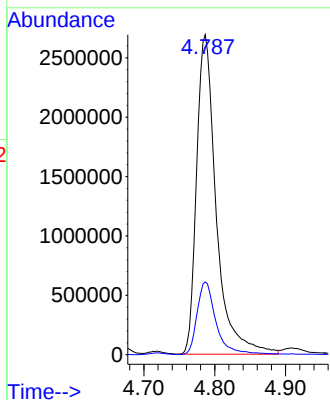
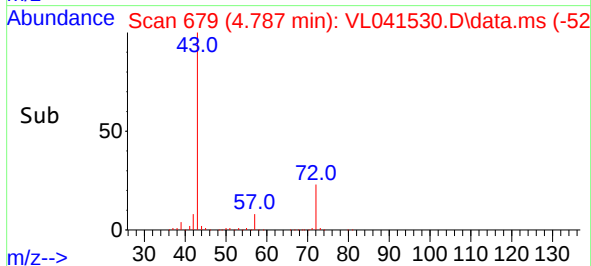
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



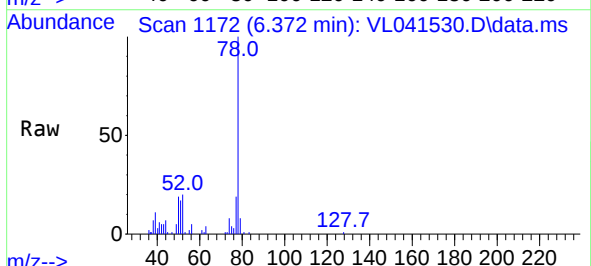
Tgt Ion: 43 Resp: 518520  
Ion Ratio Lower Upper  
43 100  
72 22.2 17.3 25.9

Manual Integrations  
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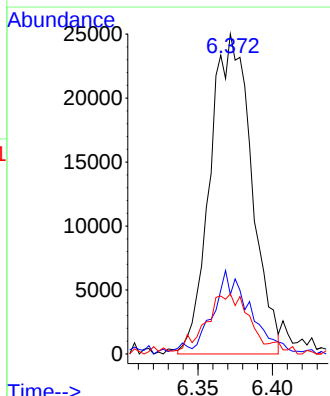
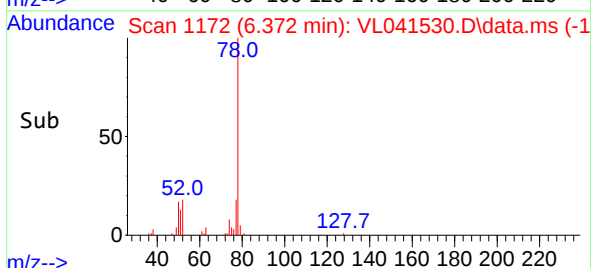
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024

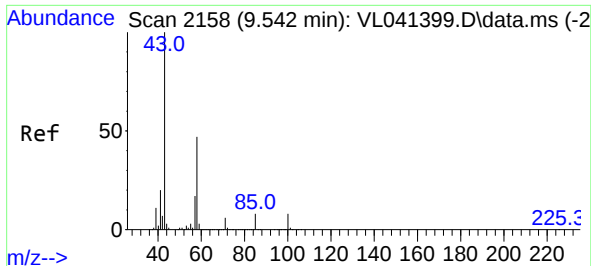


#36  
Benzene  
Concen: 0.237 ppbv m  
RT: 6.372 min Scan# 1172  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44



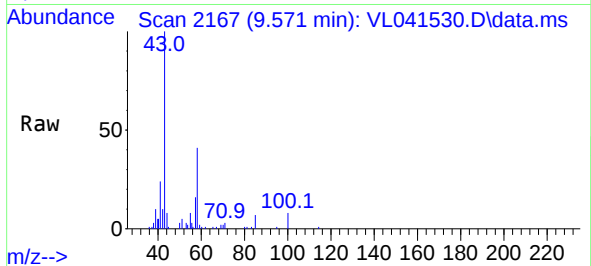
Tgt Ion: 78 Resp: 48332  
Ion Ratio Lower Upper  
78 100  
77 18.6 18.1 27.1  
50 18.8 15.5 23.3





#51  
2-Hexanone  
Concen: 0.262 ppbv m  
RT: 9.571 min Scan# 2158  
Delta R.T. 0.023 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

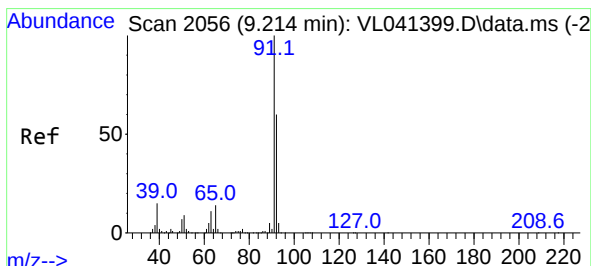
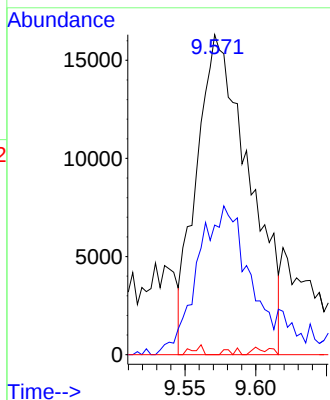
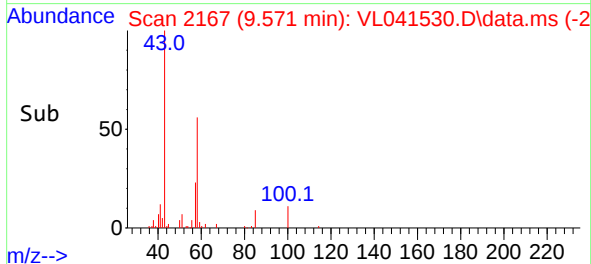
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



Tgt Ion: 43 Resp: 4227  
Ion Ratio Lower Upper  
43 100  
58 0.0 38.2 57.2  
98 0.0 0.3 0.5

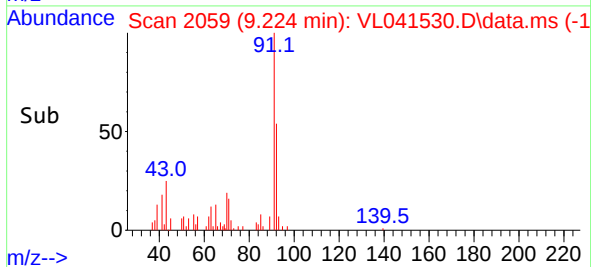
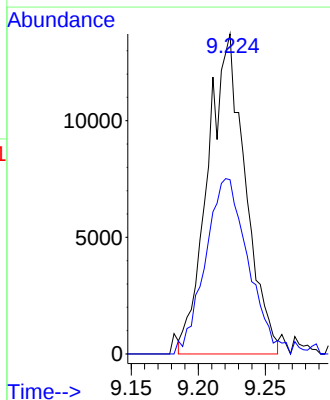
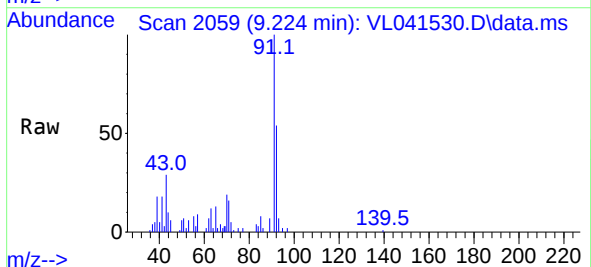
Manual Integrations  
APPROVED

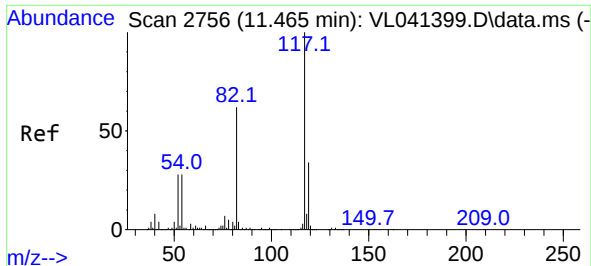
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024



#53  
Toluene  
Concen: 0.118 ppbv m  
RT: 9.224 min Scan# 2059  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

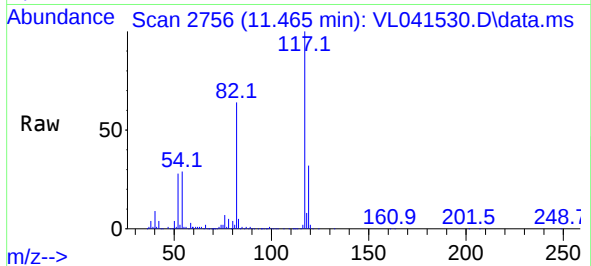
Tgt Ion: 91 Resp: 26757  
Ion Ratio Lower Upper  
91 100  
92 63.5 48.7 73.1





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

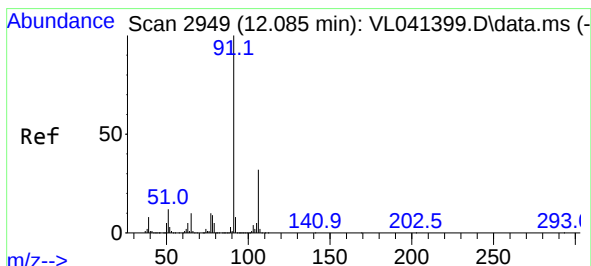
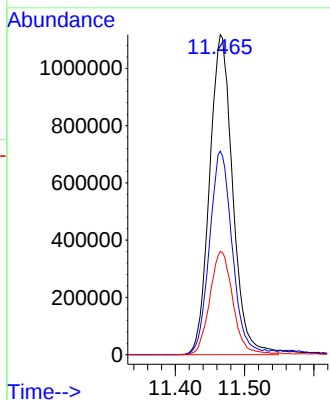
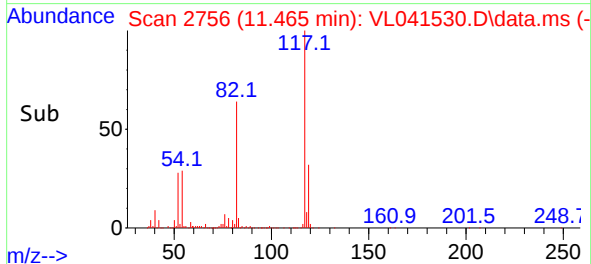
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



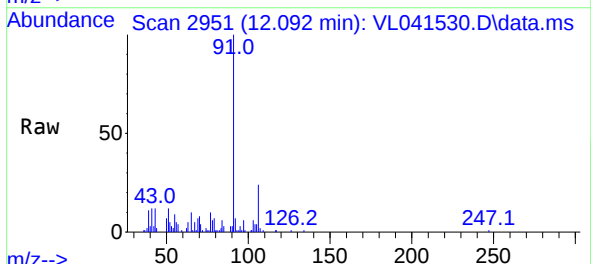
Tgt Ion:117 Resp: 2590114  
Ion Ratio Lower Upper  
117 100  
82 63.4 51.0 76.6  
119 32.5 45.2 67.8

Manual Integrations  
APPROVED

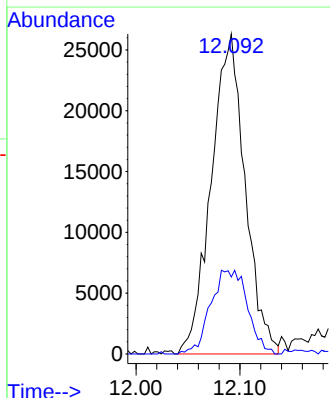
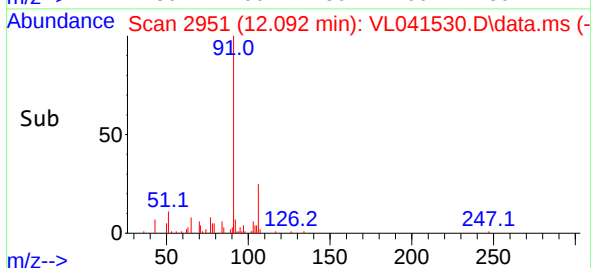
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024

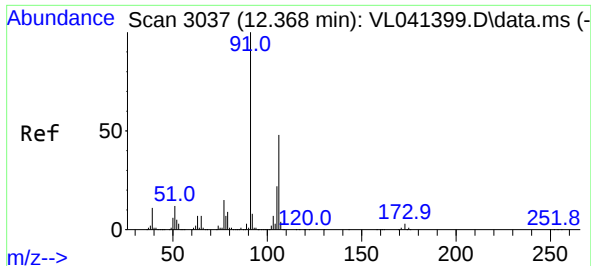


#58  
Ethyl Benzene  
Concen: 0.200 ppbv  
RT: 12.092 min Scan# 2951  
Delta R.T. 0.006 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44



Tgt Ion: 91 Resp: 59634  
Ion Ratio Lower Upper  
91 100  
106 24.0 25.8 38.8





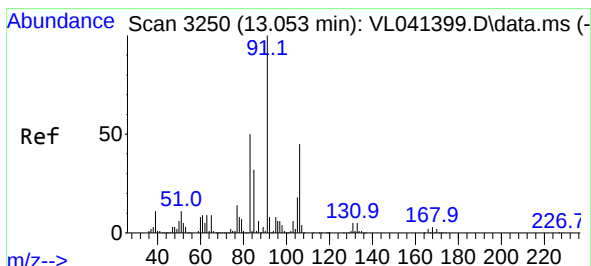
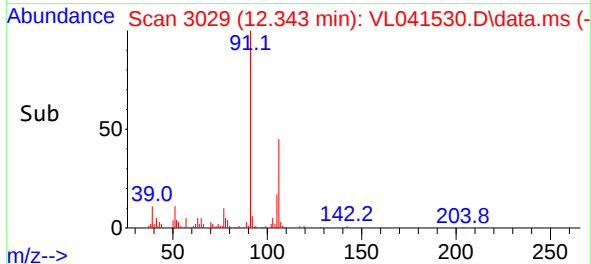
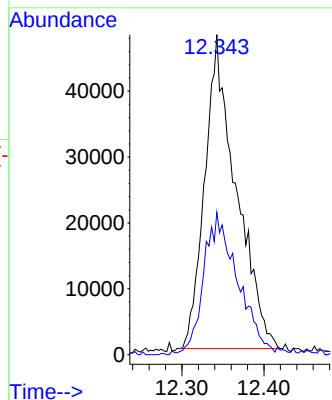
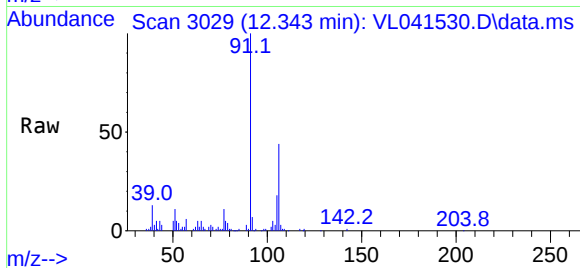
#59  
m/p-Xylene  
Concen: 0.491 ppbv  
RT: 12.343 min Scan# 3037  
Delta R.T. -0.029 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL

Tgt Ion: 91 Resp: 12661  
Ion Ratio Lower Upper  
91 100  
106 49.7 36.3 54.5

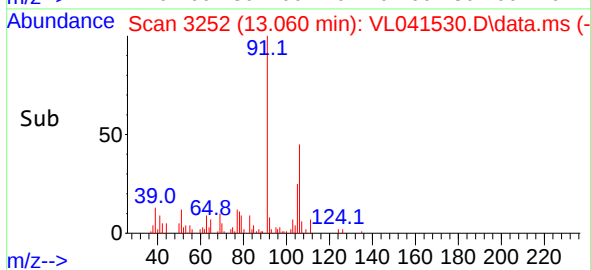
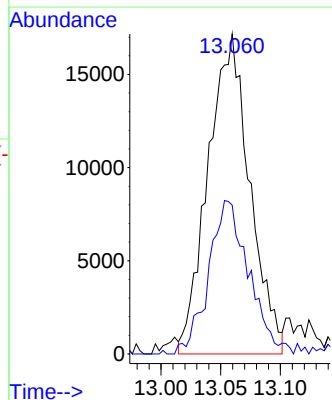
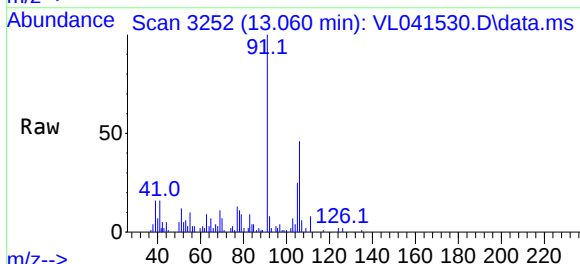
Manual Integrations  
APPROVED

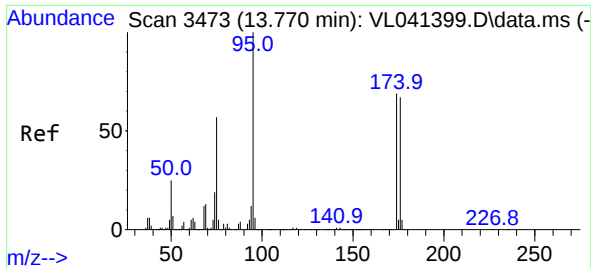
Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024



#60  
o-Xylene  
Concen: 0.171 ppbv m  
RT: 13.060 min Scan# 3252  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

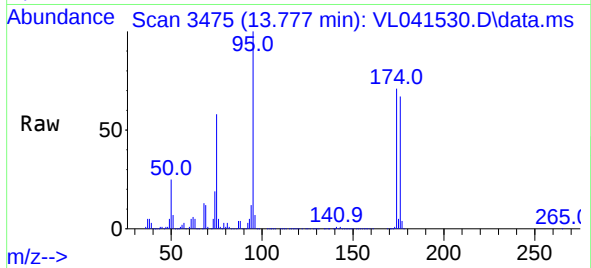
Tgt Ion: 91 Resp: 41715  
Ion Ratio Lower Upper  
91 100  
106 46.6 23.1 69.3





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.997 ppbv  
RT: 13.777 min Scan# 34  
Delta R.T. 0.003 min  
Lab File: VL041530.D  
Acq: 12 Aug 2024 10:44

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1DL



Tgt Ion: 95 Resp: 1992600  
Ion Ratio Lower Upper  
95 100  
174 70.7 56.3 84.5  
175 5.1 4.0 6.0

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024

