

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121922\  
 Data File : VL040039.D  
 Acq On : 19 Dec 2022 22:08  
 Operator : SY/MD  
 Sample : N5971-06DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-3DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022  
 Supervised By :Mahesh Dadoda 12/20/2022

Quant Time: Dec 20 05:16:46 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 19 2022

QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.169  | 49    | 1039889  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.629  | 114   | 2970313  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.442 | 117   | 2605261  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.754 | 95    | 1927775  | 9.687    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 96.900%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 2.681  | 41    | 73386m   | 1.127    | ppbv   |          |
| 10) Heptane                 | 7.552  | 43    | 18506m   | 0.116    | ppbv   |          |
| 13) Ethanol                 | 3.214  | 45    | 1264726  | 206.378  | ppbv   | 94       |
| 15) Acetone                 | 3.449  | 43    | 428617m  | 2.664    | ppbv   |          |
| 19) Isopropyl Alcohol       | 3.562  | 45    | 47574m   | 0.600    | ppbv   |          |
| 20) Methylene Chloride      | 3.912  | 84    | 60349    | 0.883    | ppbv   | 91       |
| 26) Hexane                  | 5.192  | 57    | 57041    | 0.487    | ppbv # | 42       |
| 27) Carbon Disulfide        | 4.102  | 76    | 47008m   | 0.318    | ppbv   |          |
| 30) Cyclohexane             | 6.578  | 84    | 32473m   | 0.313    | ppbv   |          |
| 36) Benzene                 | 6.346  | 78    | 57604    | 0.217    | ppbv   | 98       |
| 53) Toluene                 | 9.195  | 91    | 125511m  | 0.427    | ppbv   |          |
| 58) Ethyl Benzene           | 12.069 | 91    | 69014    | 0.186    | ppbv # | 85       |
| 59) m/p-Xylene              | 12.320 | 91    | 61560m   | 0.191    | ppbv   |          |
| 60) o-Xylene                | 13.034 | 91    | 35041m   | 0.113    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

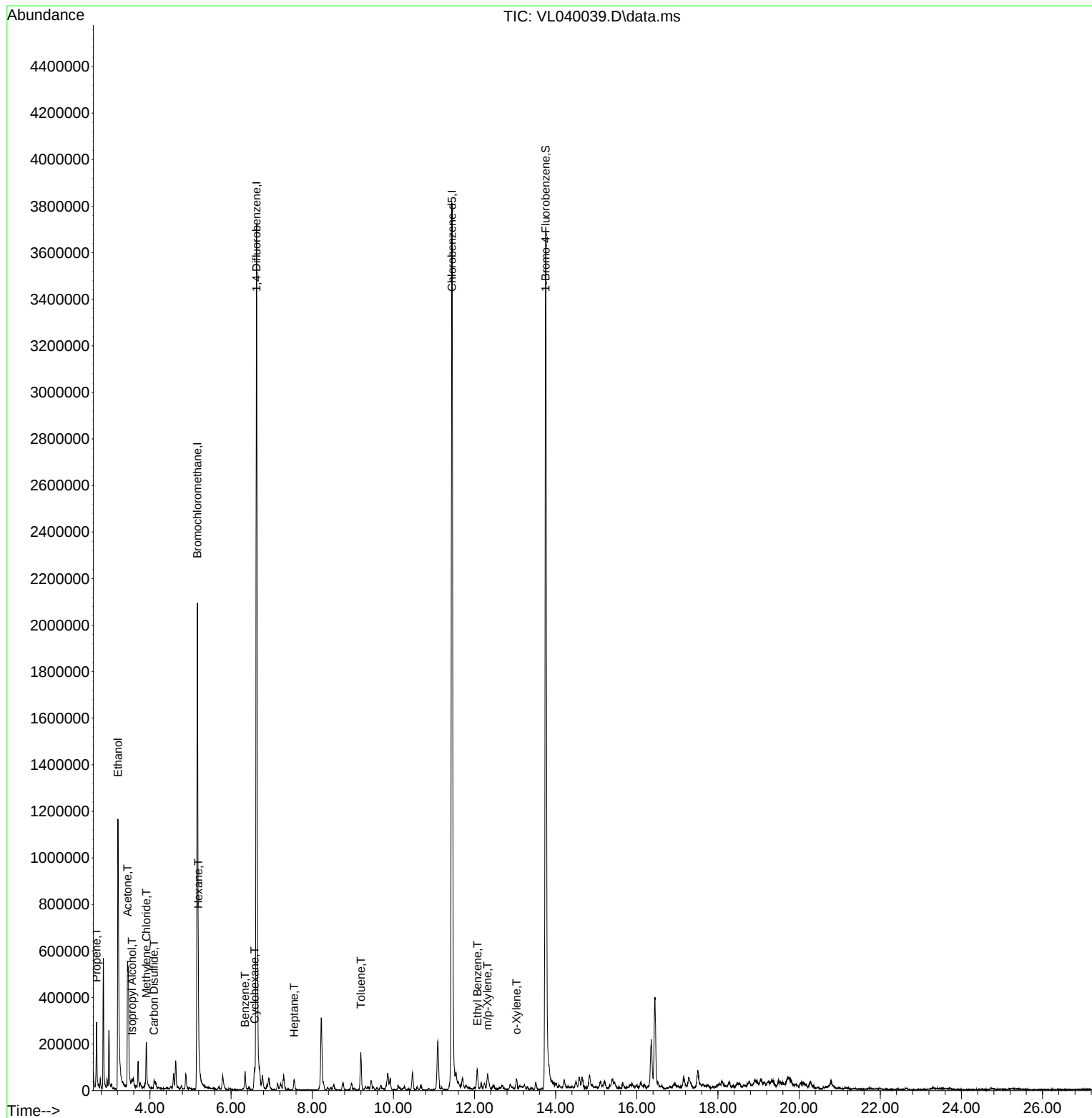
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121922\  
Data File : VL040039.D  
Acq On : 19 Dec 2022 22:08  
Operator : SY/MD  
Sample : N5971-06DL 10X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

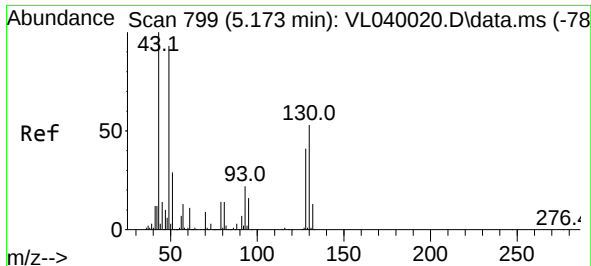
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL

Quant Time: Dec 20 05:16:46 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Dec 20 04:50:21 2022  
Response via : Initial Calibration

Manual Integrations  
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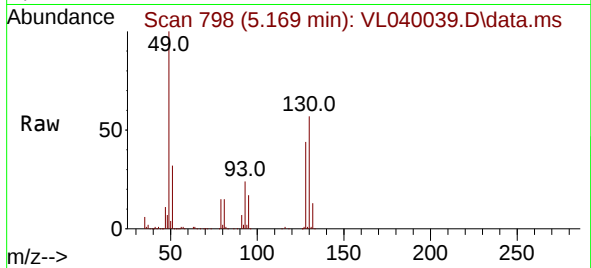
Reviewed By : Semsettin Yesilyurt 12/20/2022  
Supervised By : Mahesh Dadoda 12/20/2022





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.169 min Scan# 799  
Delta R.T. -0.004 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

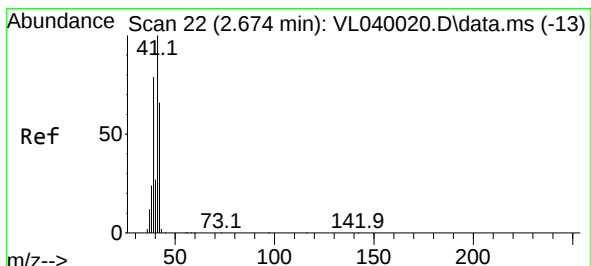
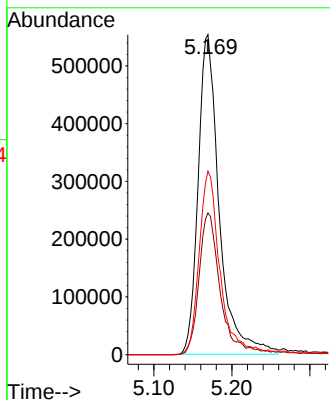
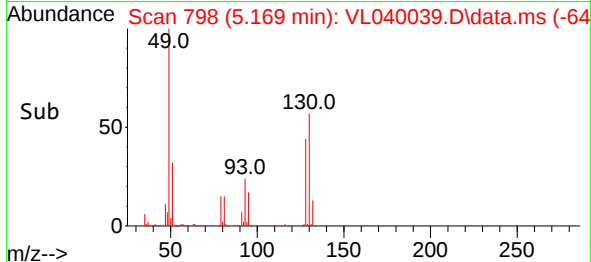
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL



Tgt Ion: 49 Resp: 1039889  
Ion Ratio Lower Upper  
49 100  
128 46.3 22.4 67.3  
130 58.6 28.9 86.8

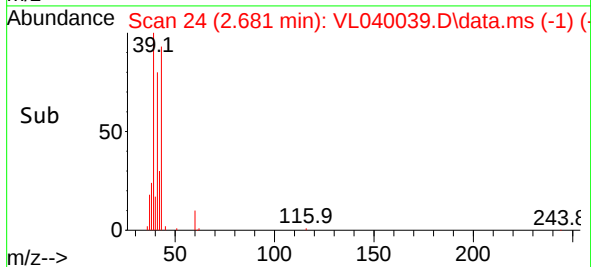
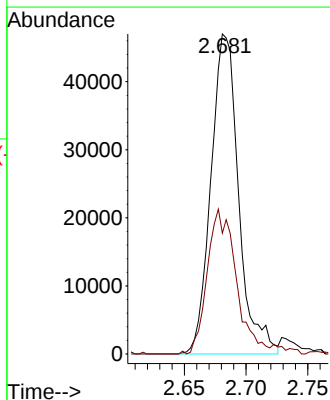
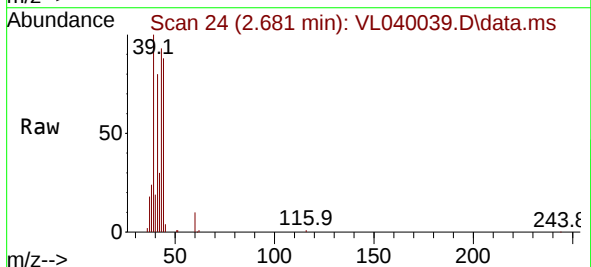
Manual Integrations  
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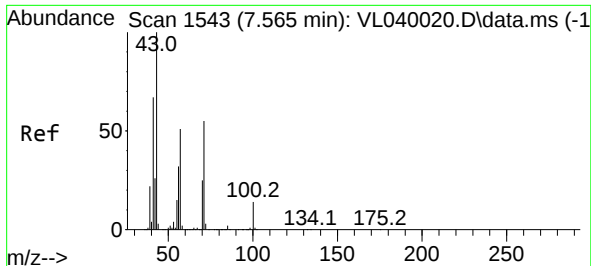
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022



#9  
Propene  
Concen: 1.127 ppbv m  
RT: 2.681 min Scan# 24  
Delta R.T. 0.006 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

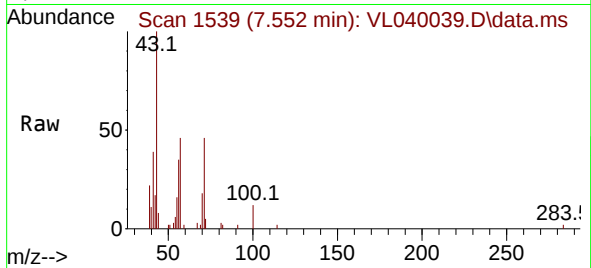
Tgt Ion: 41 Resp: 73386  
Ion Ratio Lower Upper  
41 100  
42 140.6 54.8 82.2#





#10  
Heptane  
Concen: 0.116 ppbv m  
RT: 7.552 min Scan# 11  
Delta R.T. -0.013 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

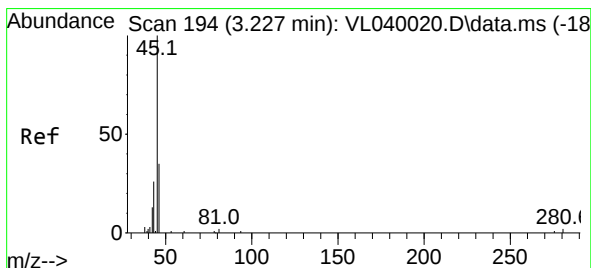
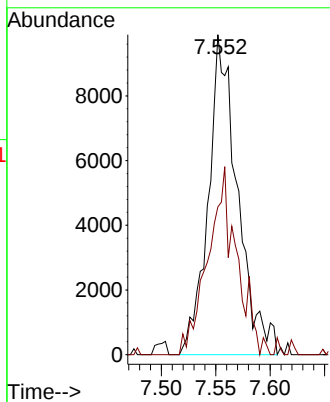
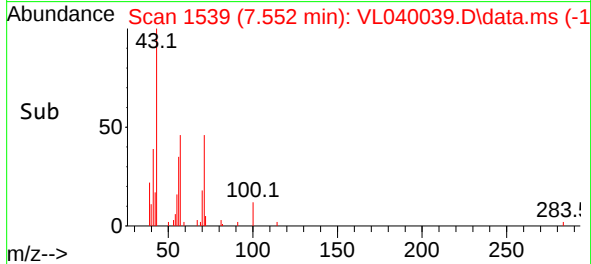
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL



Tgt Ion: 43 Resp: 18500  
Ion Ratio Lower Upper  
43 100  
57 57.7 41.2 61.8

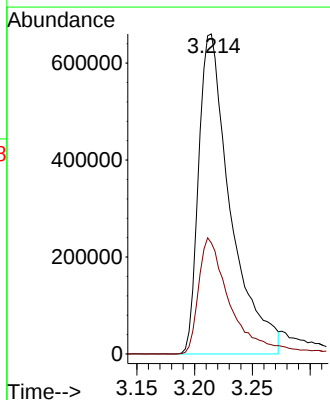
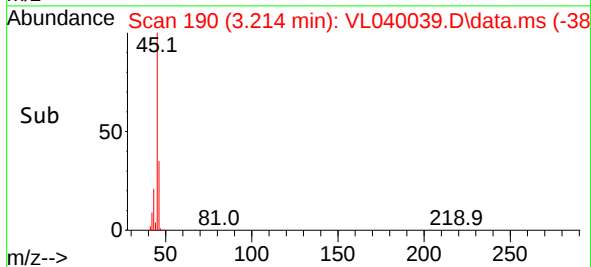
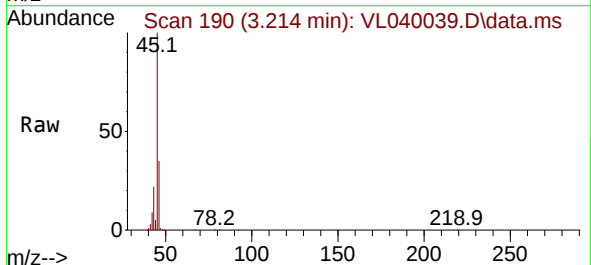
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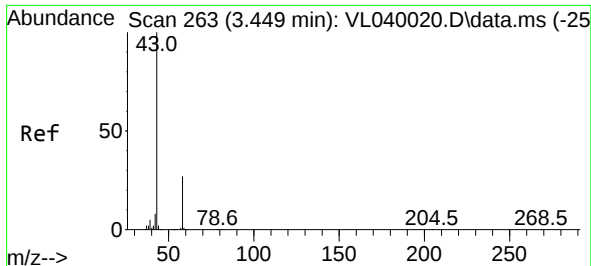
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022



#13  
Ethanol  
Concen: 206.378 ppbv  
RT: 3.214 min Scan# 190  
Delta R.T. -0.013 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

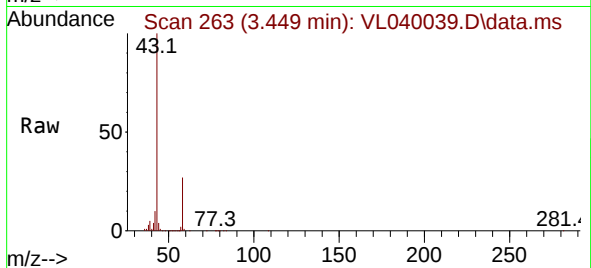
Tgt Ion: 45 Resp: 1264726  
Ion Ratio Lower Upper  
45 100  
46 37.8 13.7 54.7





#15  
Acetone  
Concen: 2.664 ppbv m  
RT: 3.449 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

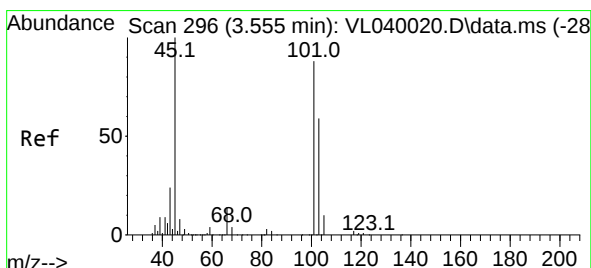
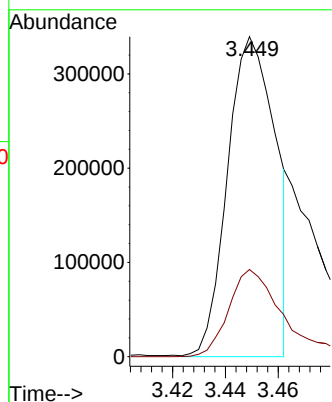
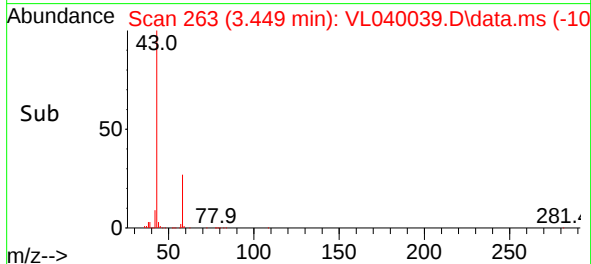
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL



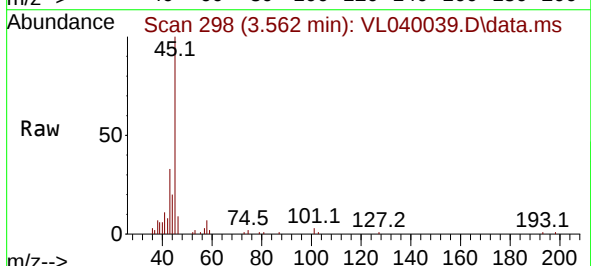
Tgt Ion: 43 Resp: 42861  
Ion Ratio Lower Upper  
43 100  
58 34.2 21.8 32.8

Manual Integrations  
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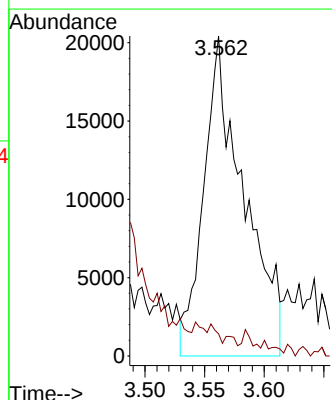
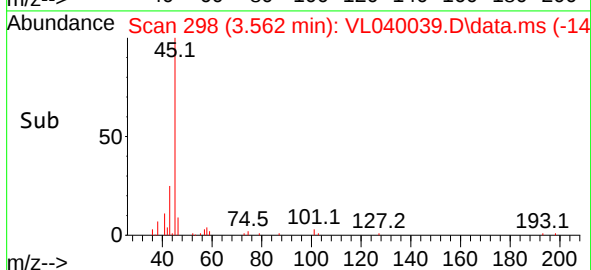
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022

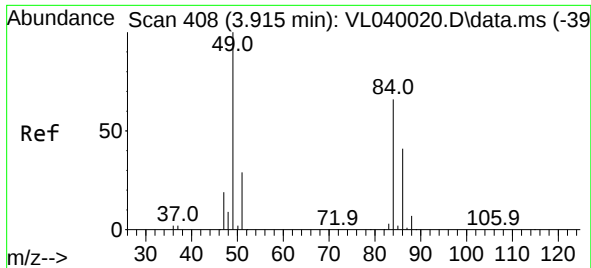


#19  
Isopropyl Alcohol  
Concen: 0.600 ppbv m  
RT: 3.562 min Scan# 298  
Delta R.T. 0.006 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08



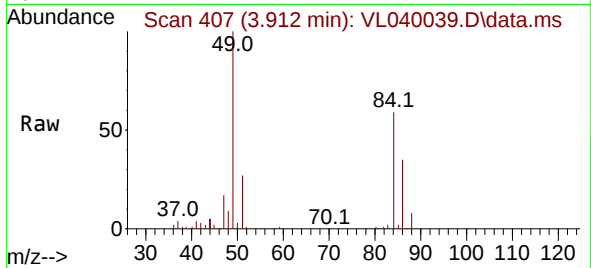
Tgt Ion: 45 Resp: 47574  
Ion Ratio Lower Upper  
45 100  
58 308.3 1.7 2.5





#20  
Methylene Chloride  
Concen: 0.883 ppbv  
RT: 3.912 min Scan# 407  
Delta R.T. -0.003 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

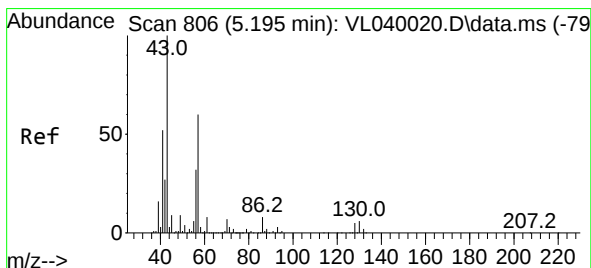
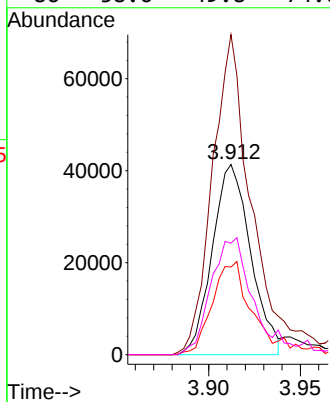
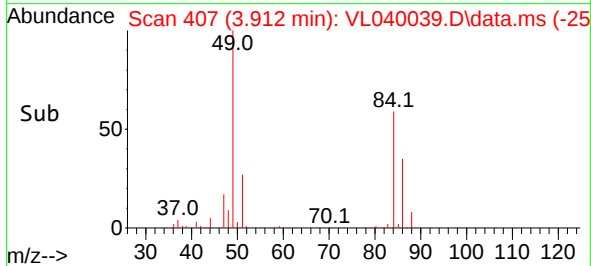
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL



Tgt Ion: 84 Resp: 60349  
Ion Ratio Lower Upper  
84 100  
49 167.0 120.5 180.7  
51 45.8 35.2 52.8  
86 58.6 49.8 74.6

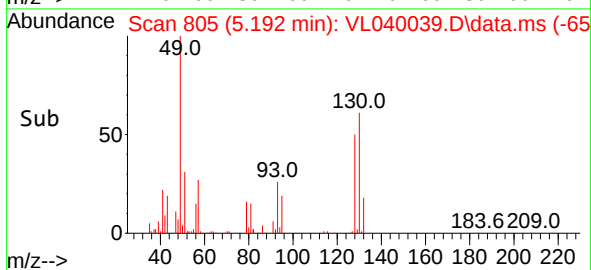
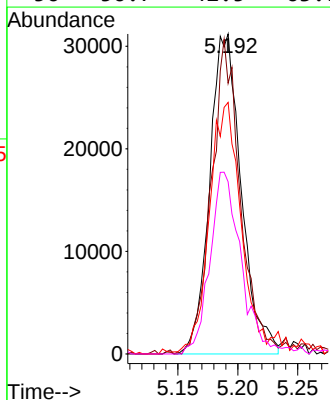
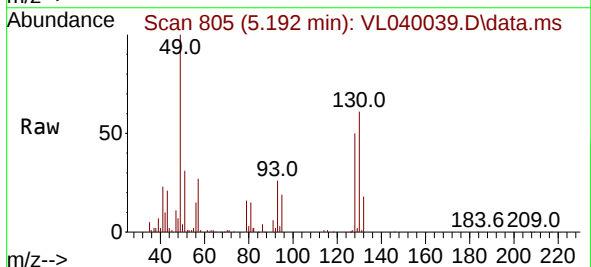
Manual Integrations  
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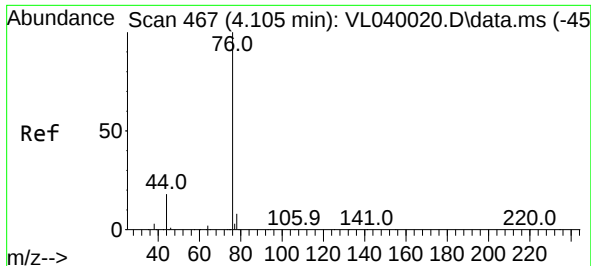
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022



#26  
Hexane  
Concen: 0.487 ppbv  
RT: 5.192 min Scan# 805  
Delta R.T. -0.003 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

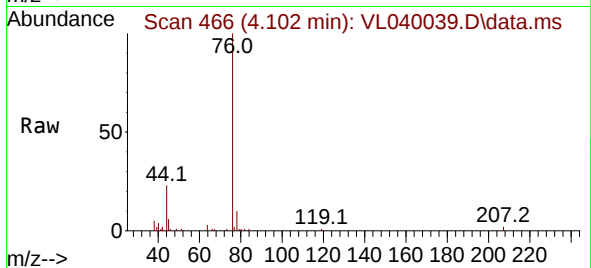
Tgt Ion: 57 Resp: 57041  
Ion Ratio Lower Upper  
57 100  
41 92.5 72.1 108.1  
43 84.9 192.1 288.1#  
56 56.7 42.5 63.7





#27  
Carbon Disulfide  
Concen: 0.318 ppbv m  
RT: 4.102 min Scan# 4  
Delta R.T. -0.003 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

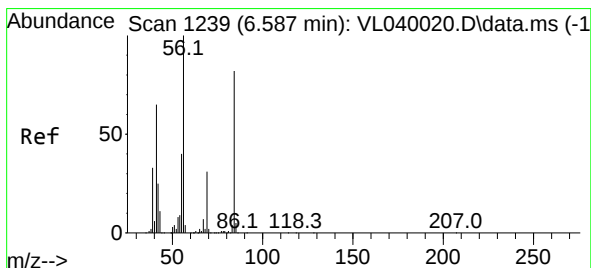
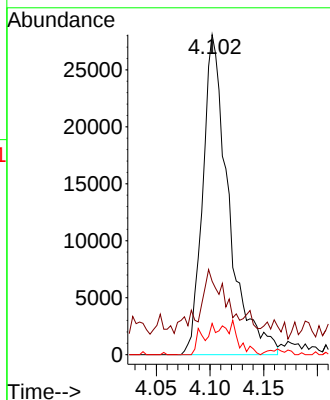
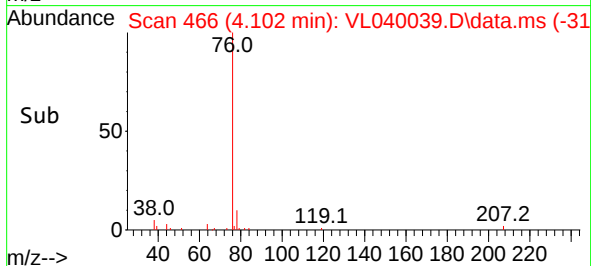
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL



Tgt Ion: 76 Resp: 47008  
Ion Ratio Lower Upper  
76 100  
44 30.5 15.3 22.9  
78 0.0 7.8 11.6

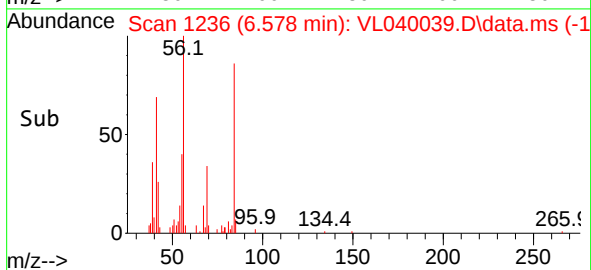
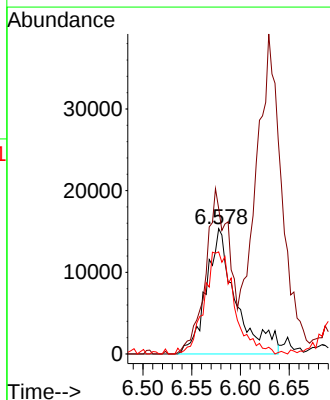
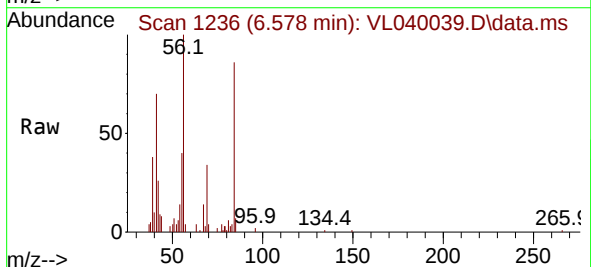
Manual Integrations  
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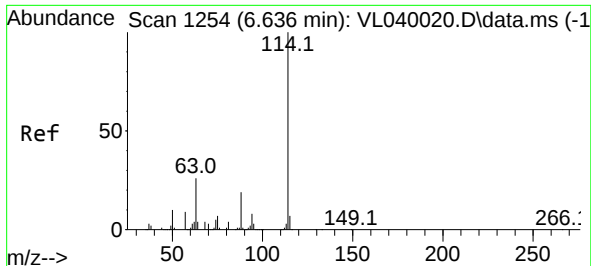
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022



#30  
Cyclohexane  
Concen: 0.313 ppbv m  
RT: 6.578 min Scan# 1236  
Delta R.T. -0.010 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

Tgt Ion: 84 Resp: 32473  
Ion Ratio Lower Upper  
84 100  
56 114.9 110.2 165.4  
41 83.5 67.8 101.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 1164

Delta R.T. -0.006 min

Lab File: VL040039.D

Acq: 19 Dec 2022 22:08

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

Tgt Ion:114 Resp: 297031

Ion Ratio Lower Upper

114 100

63 24.3 20.2 30.2

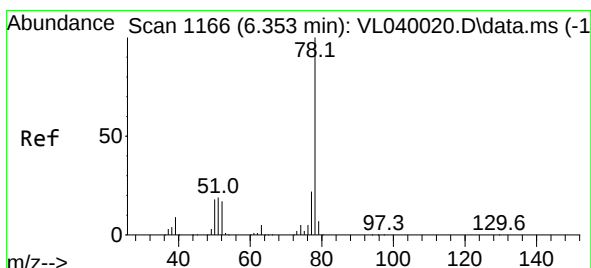
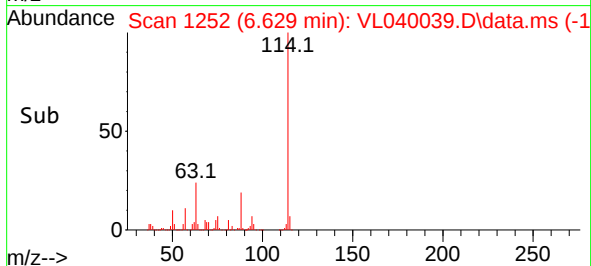
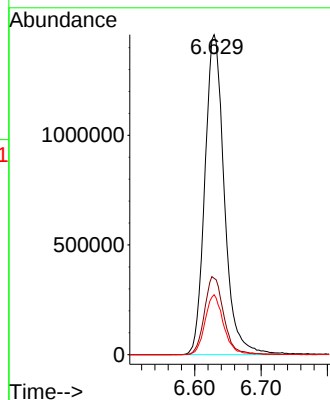
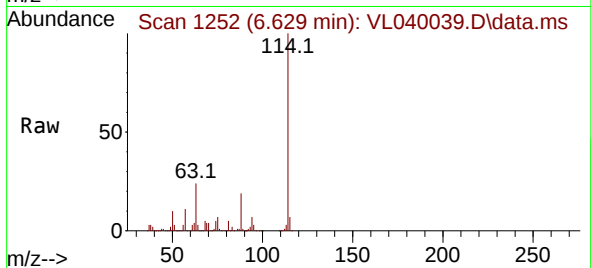
88 18.1 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#36

Benzene

Concen: 0.217 ppbv

RT: 6.346 min Scan# 1164

Delta R.T. -0.006 min

Lab File: VL040039.D

Acq: 19 Dec 2022 22:08

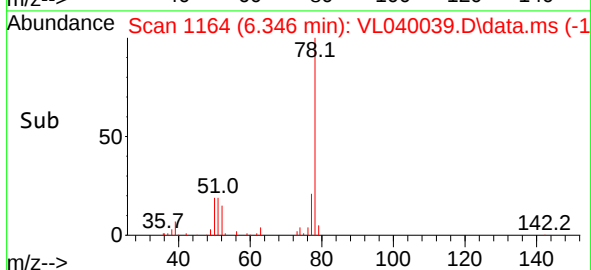
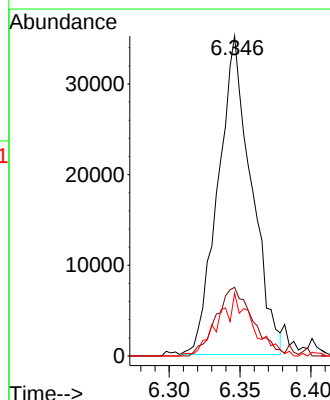
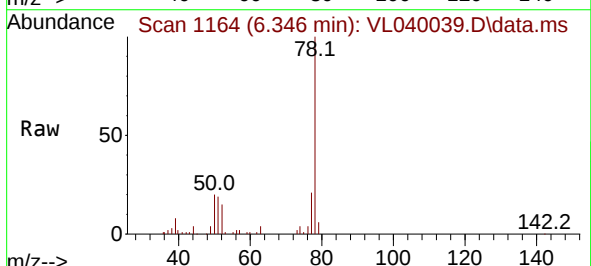
Tgt Ion: 78 Resp: 57604

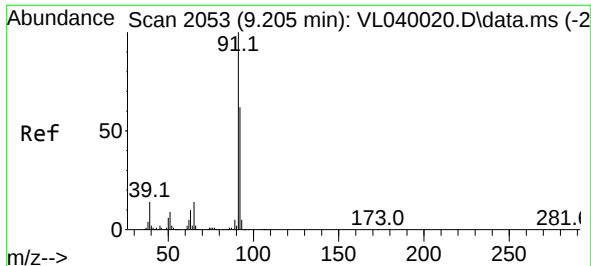
Ion Ratio Lower Upper

78 100

77 21.6 17.5 26.3

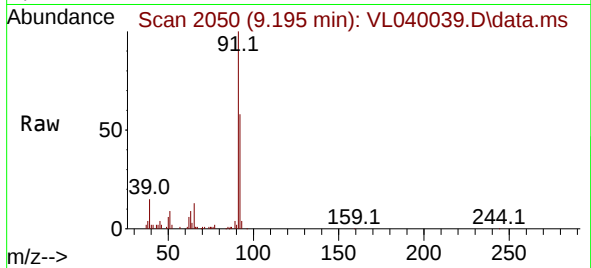
50 19.7 14.2 21.2





#53  
Toluene  
Concen: 0.427 ppbv m  
RT: 9.195 min Scan# 2053  
Delta R.T. -0.010 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

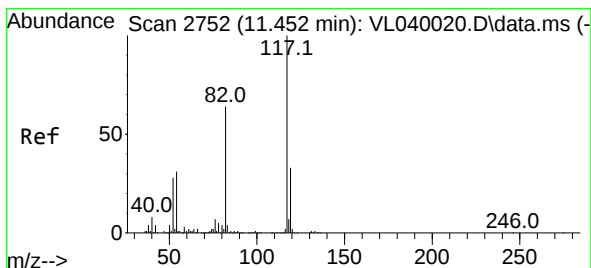
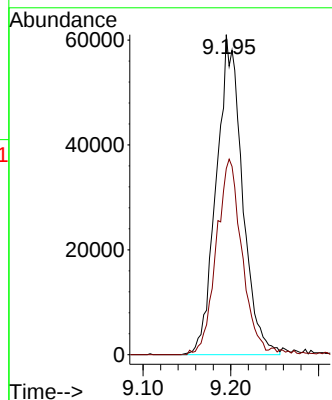
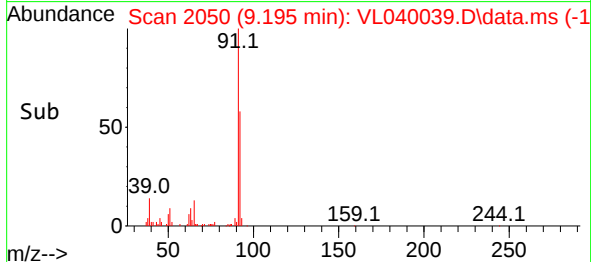
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL



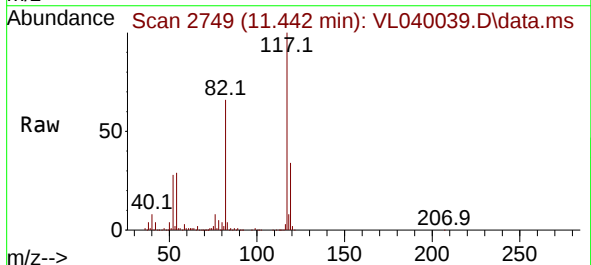
Tgt Ion: 91 Resp: 12551  
Ion Ratio Lower Upper  
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92 0.0 48.7 73.1

Manual Integrations  
APPROVED

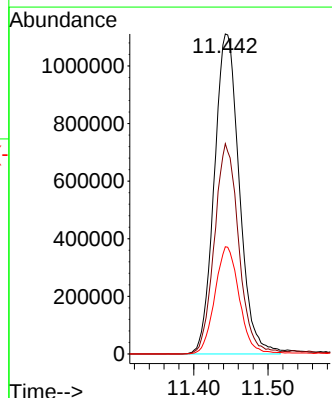
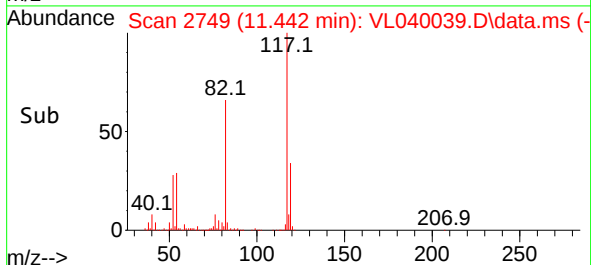
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022

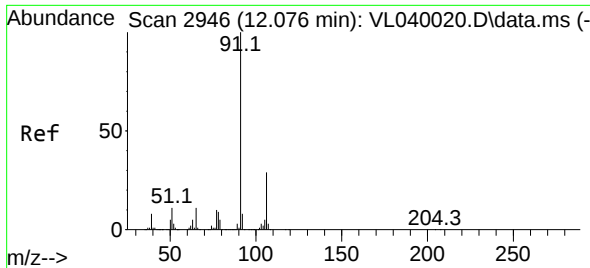


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.442 min Scan# 2749  
Delta R.T. -0.010 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08



Tgt Ion:117 Resp: 2605261  
Ion Ratio Lower Upper  
117 100  
82 65.4 51.2 76.8  
119 33.1 23.2 34.8





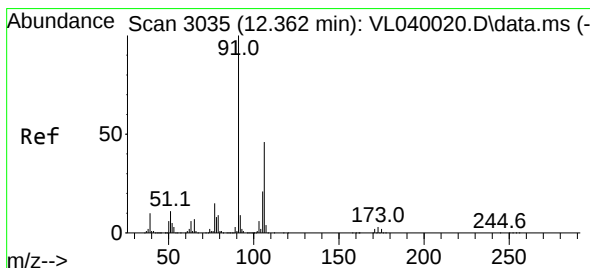
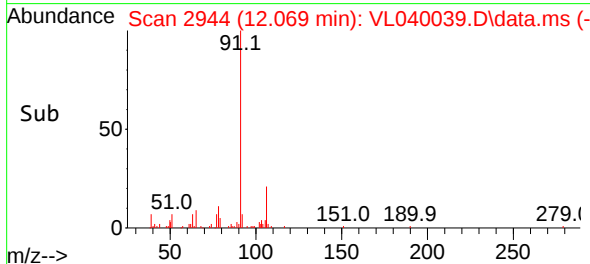
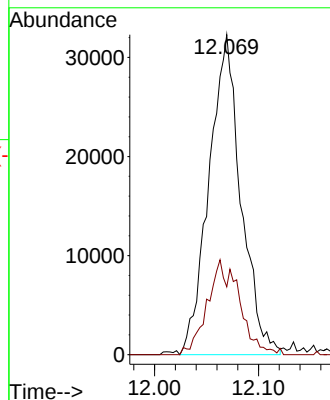
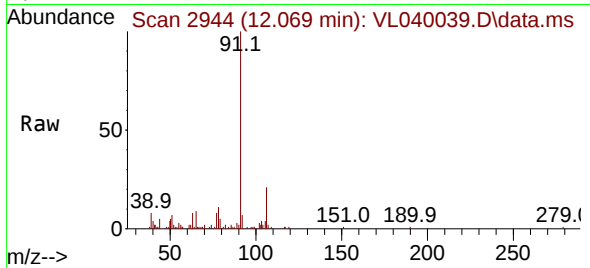
#58  
Ethyl Benzene  
Concen: 0.186 ppbv  
RT: 12.069 min Scan# 2944  
Delta R.T. -0.006 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL

Tgt Ion: 91 Resp: 69014  
Ion Ratio Lower Upper  
91 100  
106 21.2 23.5 35.3

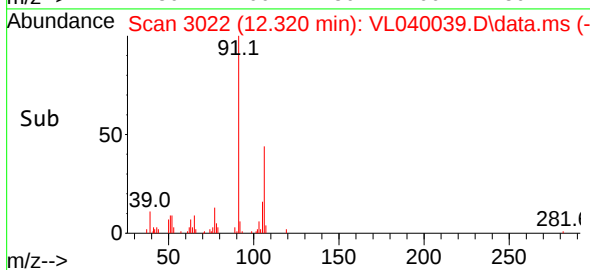
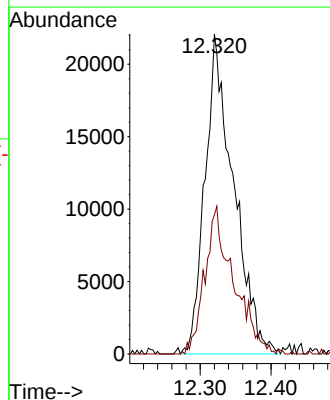
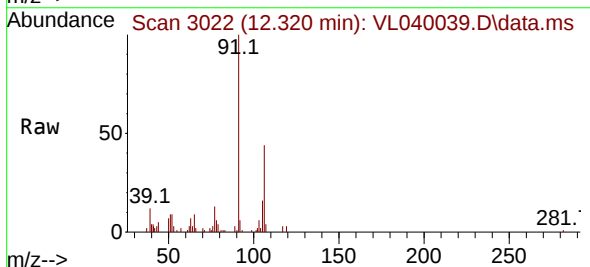
Manual Integrations  
APPROVED

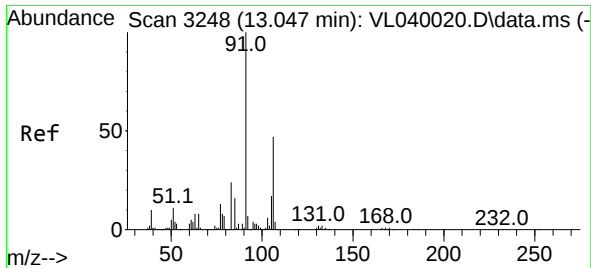
Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022



#59  
m/p-Xylene  
Concen: 0.191 ppbv m  
RT: 12.320 min Scan# 3022  
Delta R.T. -0.042 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

Tgt Ion: 91 Resp: 61560  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.5 53.3





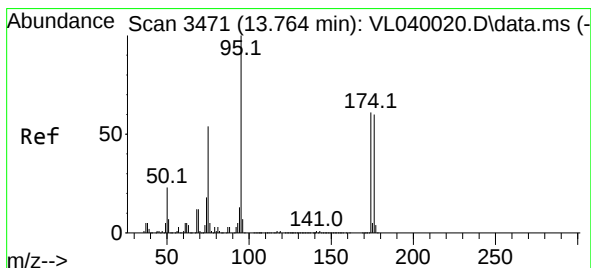
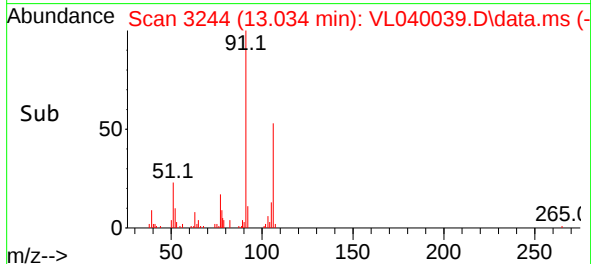
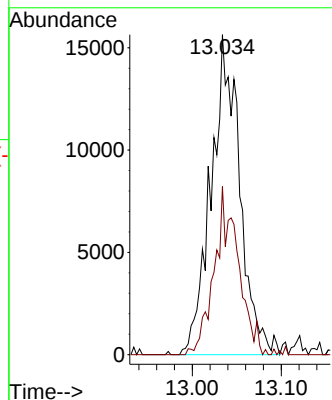
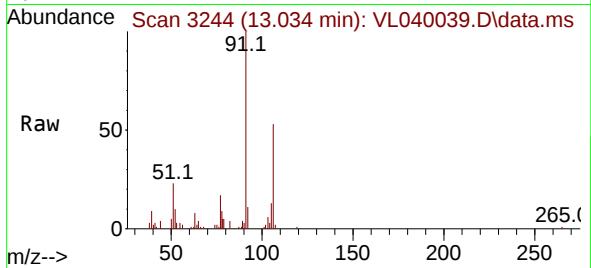
#60  
o-Xylene  
Concen: 0.113 ppbv m  
RT: 13.034 min Scan# 31  
Delta R.T. -0.013 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL

Tgt Ion: 91 Resp: 3504  
Ion Ratio Lower Upper  
91 100  
106 44.0 22.4 67.0

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022  
Supervised By :Mahesh Dadoda 12/20/2022



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.687 ppbv  
RT: 13.754 min Scan# 3468  
Delta R.T. -0.010 min  
Lab File: VL040039.D  
Acq: 19 Dec 2022 22:08

Tgt Ion: 95 Resp: 1927775  
Ion Ratio Lower Upper  
95 100  
174 65.0 48.6 73.0  
175 4.7 3.4 5.2

