

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081924\  
 Data File : VL041555.D  
 Acq On : 19 Aug 2024 20:09  
 Operator : SY/MD  
 Sample : P3658-05DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV3DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024  
 Supervised By :Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:22:54 2024

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

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

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.208  | 49    | 1014001  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.668  | 114   | 2707231  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.481 | 117   | 2460399  | 10.000   | ppbv   | # 0.00   |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.793 | 95    | 2169818  | 11.460   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 114.600% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chlorodifluoromethane    | 2.690  | 51    | 35579    | 0.295    | ppbv # | 91       |
| 9) Propene                  | 2.722  | 41    | 2957409m | 53.332   | ppbv   |          |
| 10) Heptane                 | 7.603  | 43    | 28968m   | 0.232    | ppbv   |          |
| 13) Ethanol                 | 3.269  | 45    | 29212    | 5.894    | ppbv   | 85       |
| 15) Acetone                 | 3.491  | 43    | 756083m  | 6.563    | ppbv   |          |
| 19) Isopropyl Alcohol       | 3.610  | 45    | 39475    | 0.586    | ppbv # | 93       |
| 20) Methylene Chloride      | 3.951  | 84    | 18670    | 0.435    | ppbv   | 97       |
| 26) Hexane                  | 5.230  | 57    | 250858   | 2.642    | ppbv # | 38       |
| 27) Carbon Disulfide        | 4.140  | 76    | 23547    | 0.212    | ppbv # | 89       |
| 30) Cyclohexane             | 6.616  | 84    | 71427m   | 0.924    | ppbv   |          |
| 34) 2-Butanone              | 4.809  | 43    | 389279   | 2.973    | ppbv   | 97       |
| 36) Benzene                 | 6.385  | 78    | 52176    | 0.264    | ppbv # | 91       |
| 44) 2,2,4-Trimethylpentane  | 7.346  | 57    | 234716   | 0.710    | ppbv # | 56       |
| 50) 4-Methyl-2-Pentanone    | 8.221  | 43    | 142054   | 0.688    | ppbv   | 96       |
| 53) Toluene                 | 9.237  | 91    | 206366   | 0.937    | ppbv   | 99       |
| 58) Ethyl Benzene           | 12.105 | 91    | 210227   | 0.741    | ppbv   | 98       |
| 59) m/p-Xylene              | 12.365 | 91    | 281480m  | 1.150    | ppbv   |          |
| 60) o-Xylene                | 13.076 | 91    | 157233   | 0.679    | ppbv   | 97       |
| 62) Isopropylbenzene        | 14.040 | 105   | 65233m   | 0.185    | ppbv   |          |
| 72) 4-Ethyltoluene          | 15.207 | 105   | 40955    | 0.150    | ppbv # | 78       |
| 73) 1,3,5-Trimethylbenzene  | 15.365 | 105   | 42453m   | 0.181    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 16.121 | 105   | 107510   | 0.394    | ppbv # | 72       |
| -----                       |        |       |          |          |        |          |

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

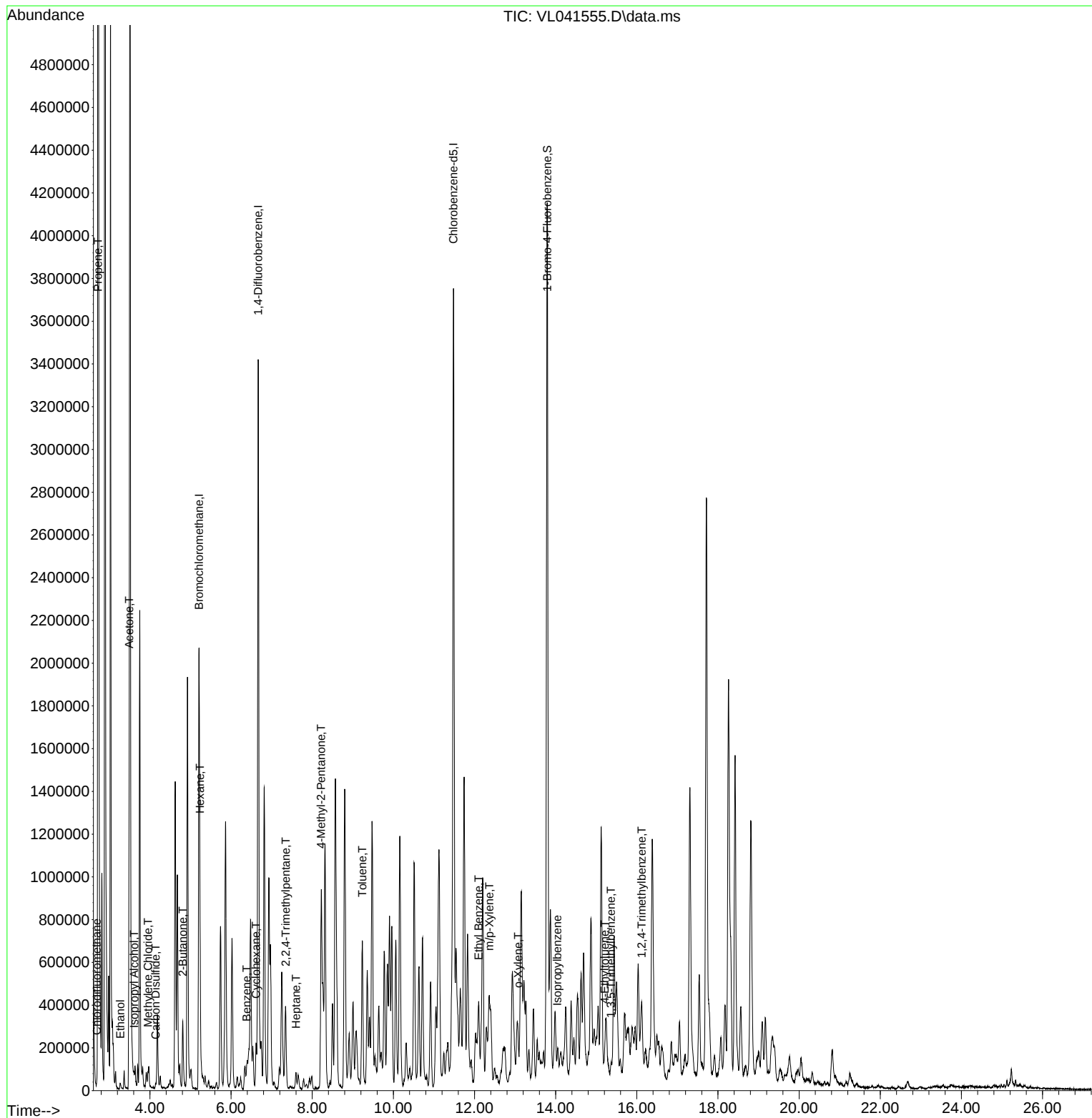
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081924\  
Data File : VL041555.D  
Acq On : 19 Aug 2024 20:09  
Operator : SY/MD  
Sample : P3658-05DL 20X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

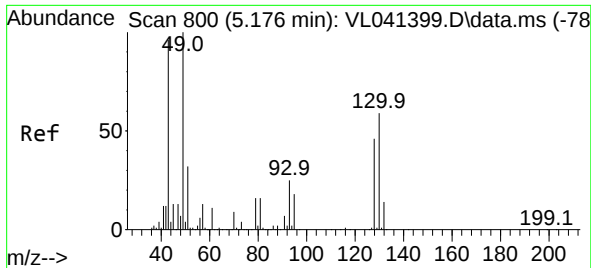
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Quant Time: Aug 20 02:22:54 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 20 02:10:04 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

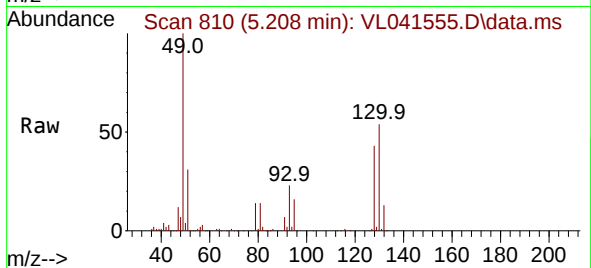
Reviewed By : Semsettin Yesilyurt 08/20/2024  
Supervised By : Mahesh Dadoda 08/20/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.208 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

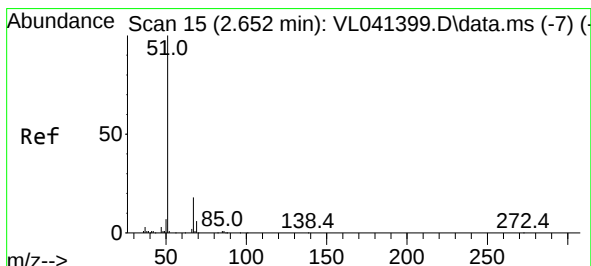
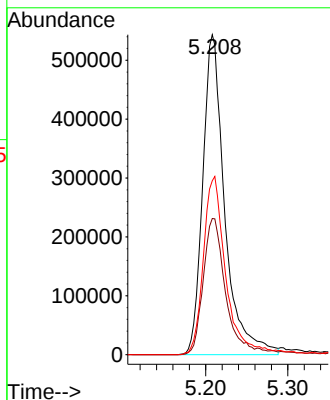
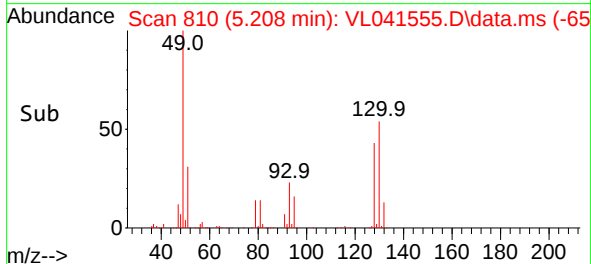
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 49 Resp: 101400  
Ion Ratio Lower Upper  
49 100  
128 44.9 23.8 71.4  
130 58.3 30.8 92.4

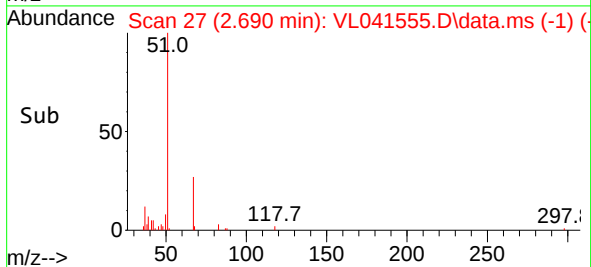
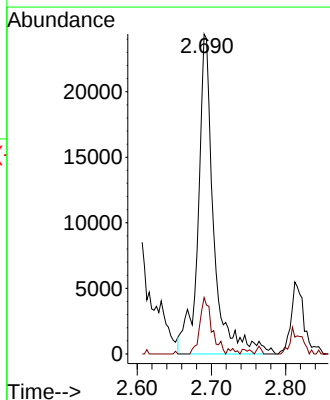
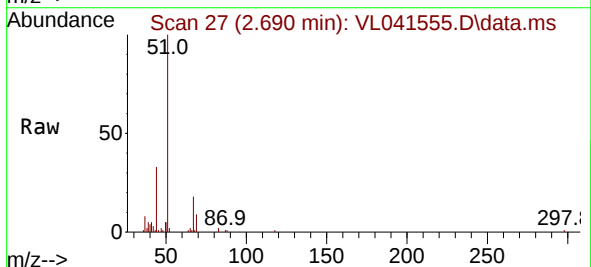
Manual Integrations  
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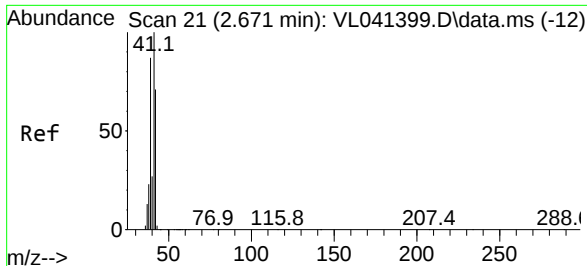
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#3  
Chlorodifluoromethane  
Concen: 0.295 ppbv  
RT: 2.690 min Scan# 27  
Delta R.T. -0.003 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

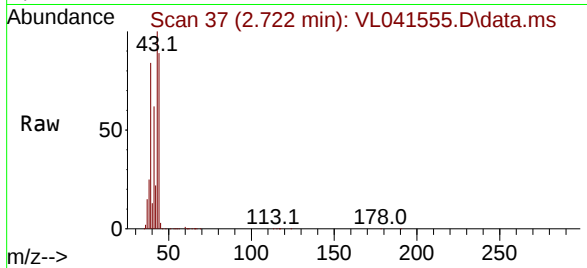
Tgt Ion: 51 Resp: 35579  
Ion Ratio Lower Upper  
51 100  
67 14.2 14.5 21.7#





#9  
 Propene  
 Concen: 53.332 ppbv m  
 RT: 2.722 min Scan# 31  
 Delta R.T. 0.010 min  
 Lab File: VL041555.D  
 Acq: 19 Aug 2024 20:09

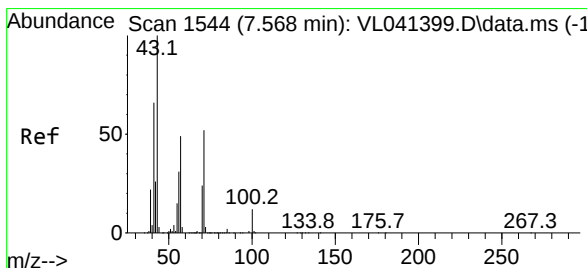
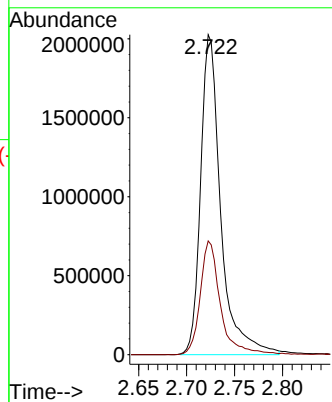
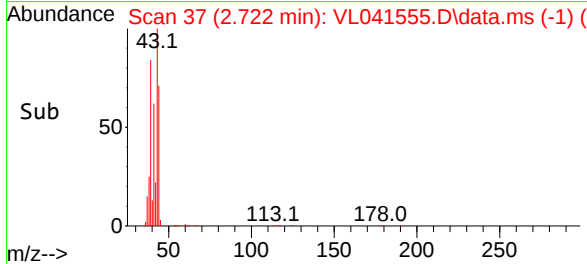
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV3DL



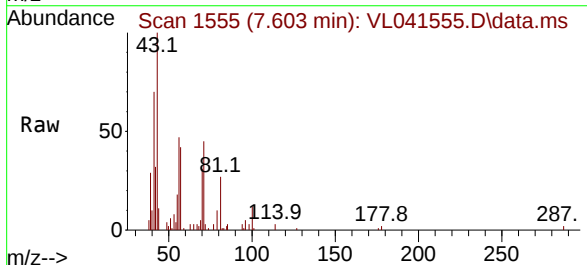
Tgt Ion: 41 Resp: 2957409  
 Ion Ratio Lower Upper  
 41 100  
 42 91.2 55.9 83.9

Manual Integrations  
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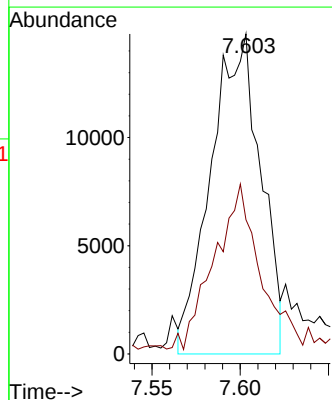
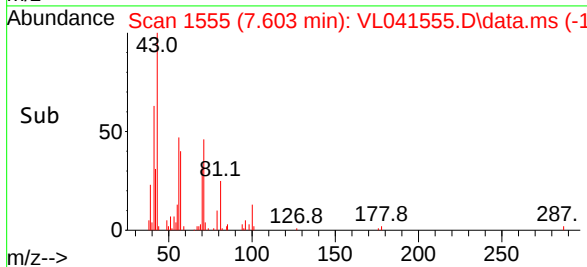
Reviewed By :Semsettin Yesilyurt 08/20/2024  
 Supervised By :Mahesh Dadoda 08/20/2024

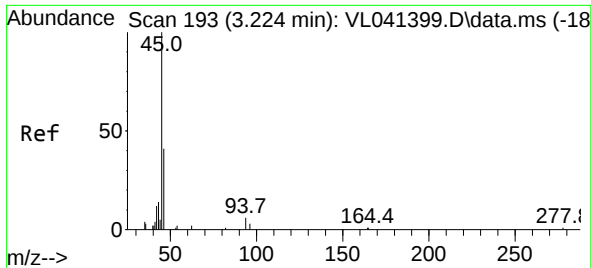


#10  
 Heptane  
 Concen: 0.232 ppbv m  
 RT: 7.603 min Scan# 1555  
 Delta R.T. 0.006 min  
 Lab File: VL041555.D  
 Acq: 19 Aug 2024 20:09



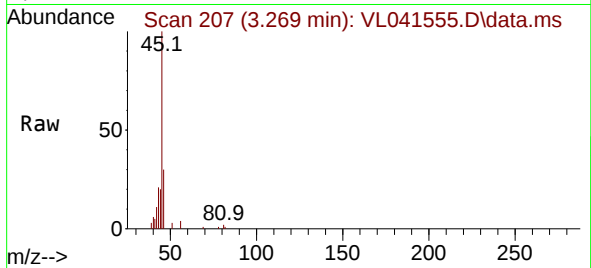
Tgt Ion: 43 Resp: 28968  
 Ion Ratio Lower Upper  
 43 100  
 57 0.0 40.5 60.7





#13  
Ethanol  
Concen: 5.894 ppbv  
RT: 3.269 min Scan# 207  
Delta R.T. 0.013 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

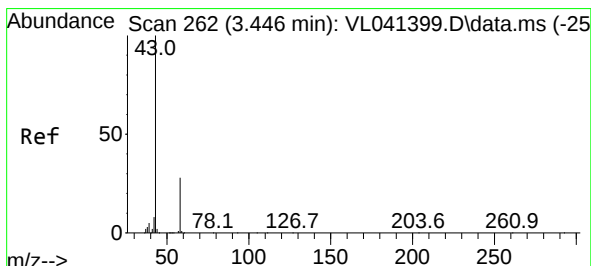
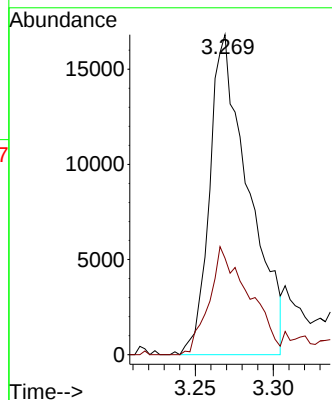
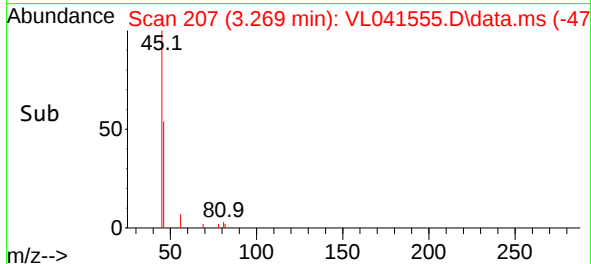
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 45 Resp: 2921  
Ion Ratio Lower Upper  
45 100  
46 41.7 13.4 53.4

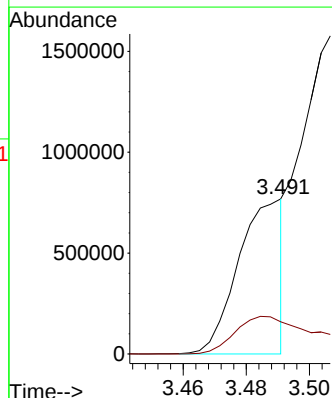
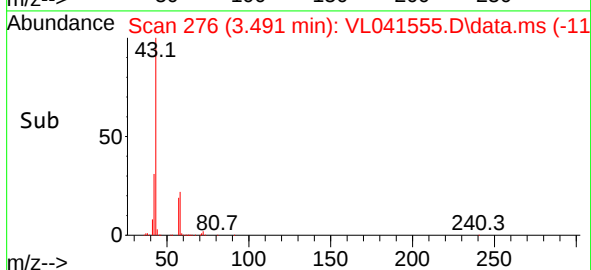
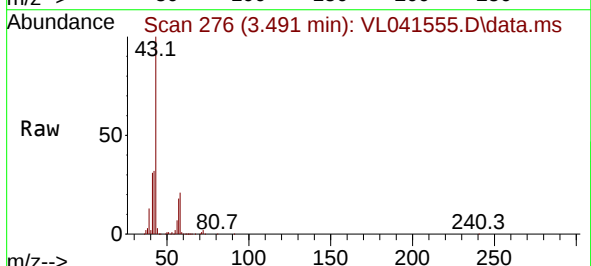
Manual Integrations  
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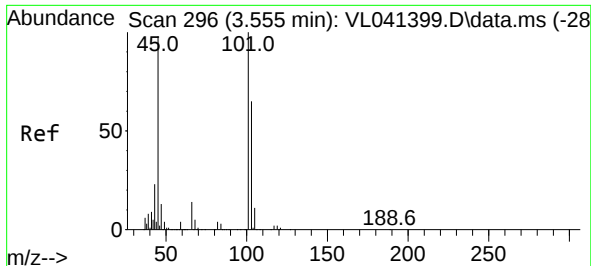
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#15  
Acetone  
Concen: 6.563 ppbv m  
RT: 3.491 min Scan# 276  
Delta R.T. 0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

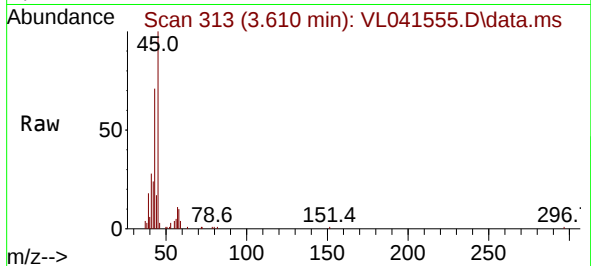
Tgt Ion: 43 Resp: 756083  
Ion Ratio Lower Upper  
43 100  
58 53.4 21.4 32.2#





#19  
Isopropyl Alcohol  
Concen: 0.586 ppbv  
RT: 3.610 min Scan# 313  
Delta R.T. 0.019 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

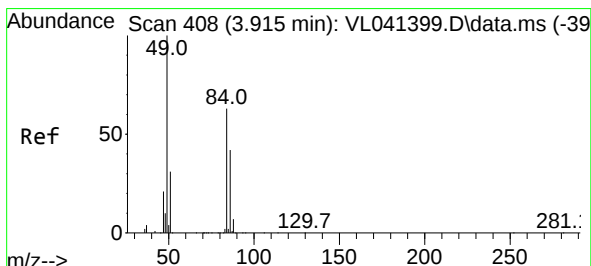
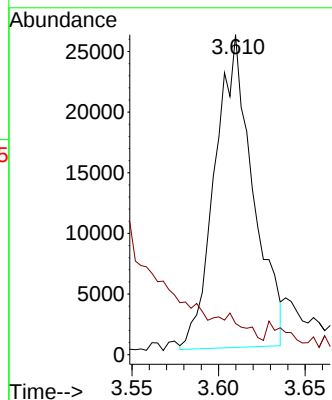
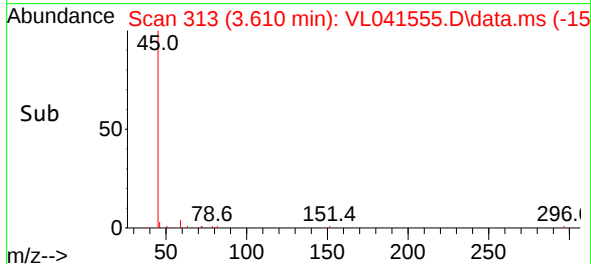
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



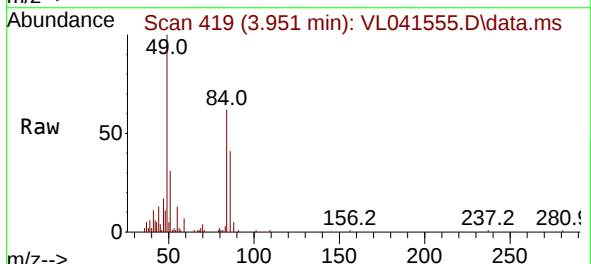
Tgt Ion: 45 Resp: 39475  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.9 2.9

Manual Integrations  
APPROVED

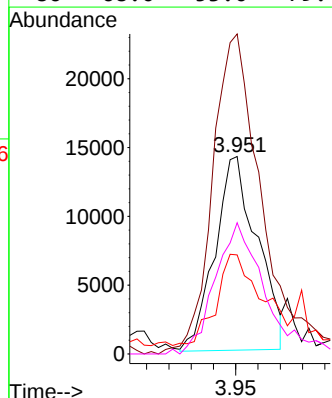
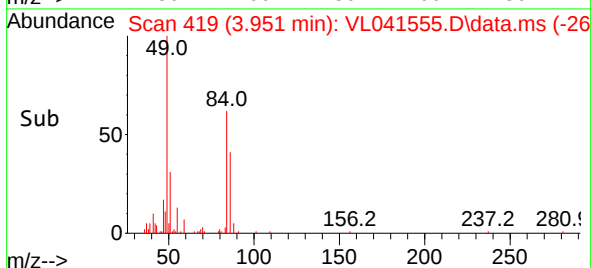
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024

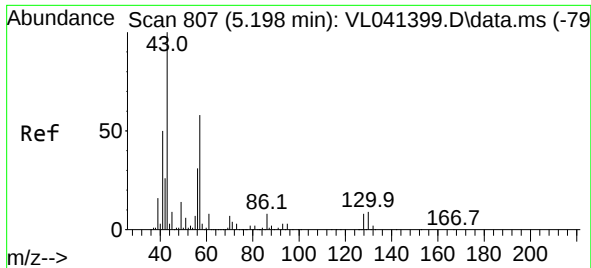


#20  
Methylene Chloride  
Concen: 0.435 ppbv  
RT: 3.951 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09



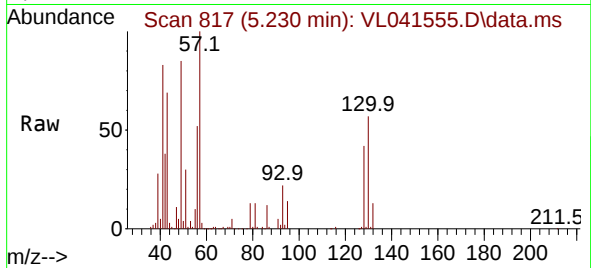
Tgt Ion: 84 Resp: 18670  
Ion Ratio Lower Upper  
84 100  
49 161.8 126.6 190.0  
51 45.8 38.6 58.0  
86 68.0 53.0 79.4





#26  
Hexane  
Concen: 2.642 ppbv  
RT: 5.230 min Scan# 817  
Delta R.T. 0.000 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

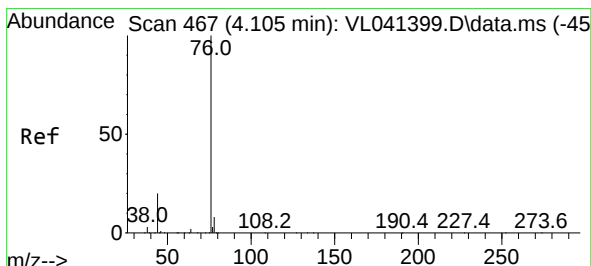
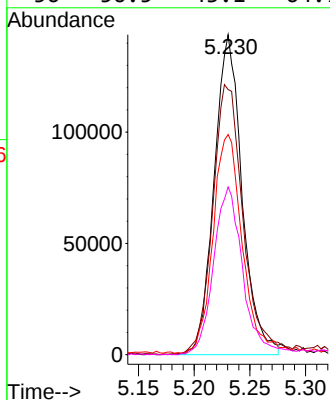
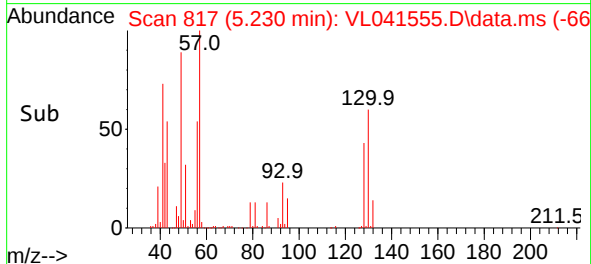
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 57 Resp: 250858  
Ion Ratio Lower Upper  
57 100  
41 92.7 74.0 111.0  
43 74.6 193.6 290.4  
56 56.5 43.1 64.7

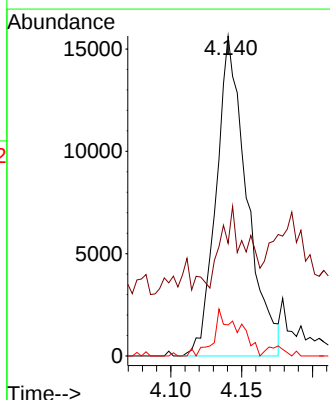
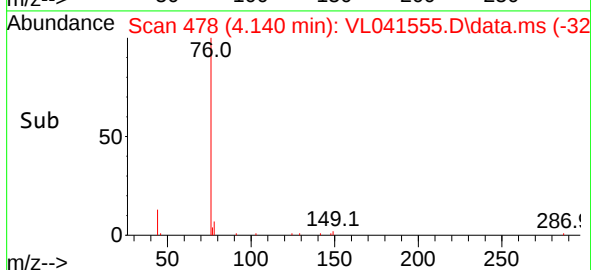
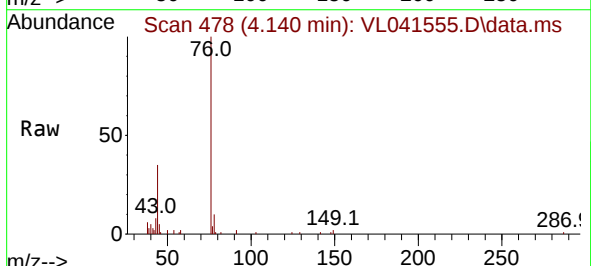
Manual Integrations  
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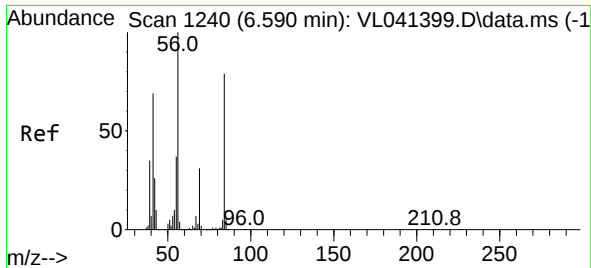
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#27  
Carbon Disulfide  
Concen: 0.212 ppbv  
RT: 4.140 min Scan# 478  
Delta R.T. -0.003 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Tgt Ion: 76 Resp: 23547  
Ion Ratio Lower Upper  
76 100  
44 24.3 15.6 23.4#  
78 13.9 7.7 11.5#





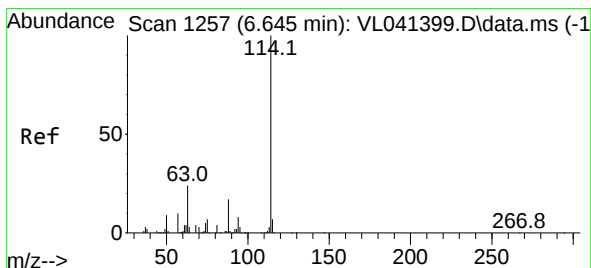
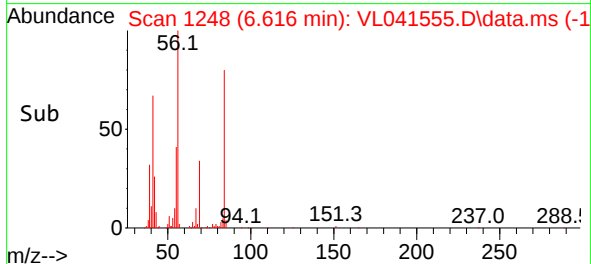
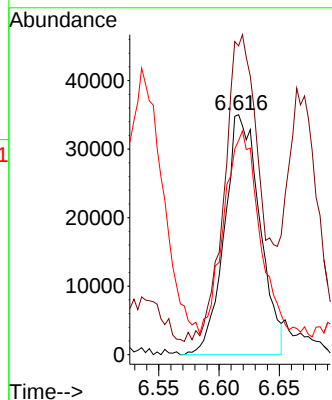
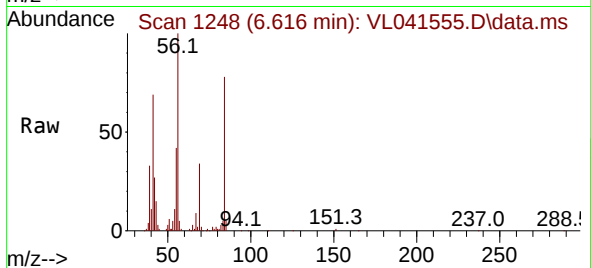
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Cyclohexane  
Concen: 0.924 ppbv m  
RT: 6.616 min Scan# 1142  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 84 Resp: 7142  
Ion Ratio Lower Upper  
84 100  
56 134.6 111.2 166.8  
41 93.7 70.3 105.5

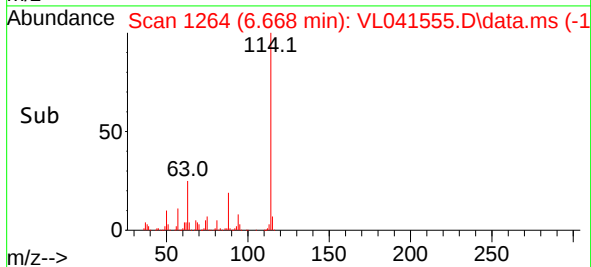
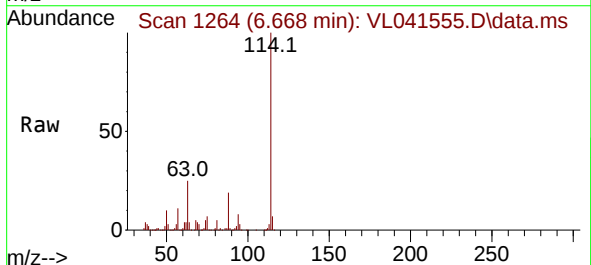
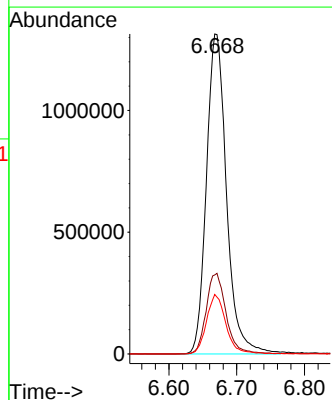
Manual Integrations  
APPROVED

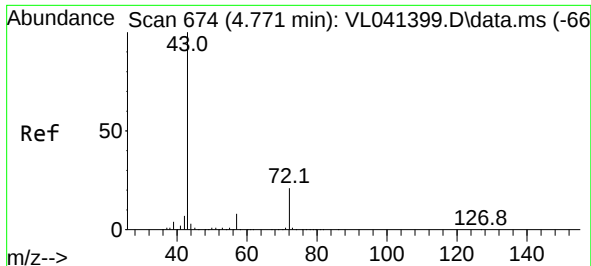
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.668 min Scan# 1264  
Delta R.T. -0.003 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Tgt Ion:114 Resp: 2707231  
Ion Ratio Lower Upper  
114 100  
63 25.2 20.3 30.5  
88 18.2 14.3 21.5





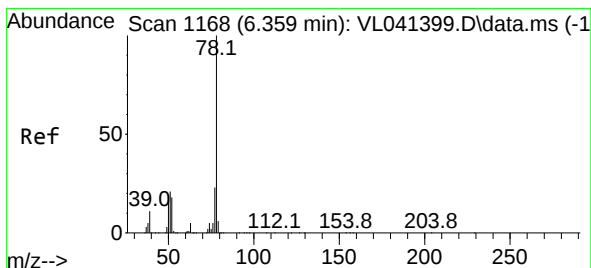
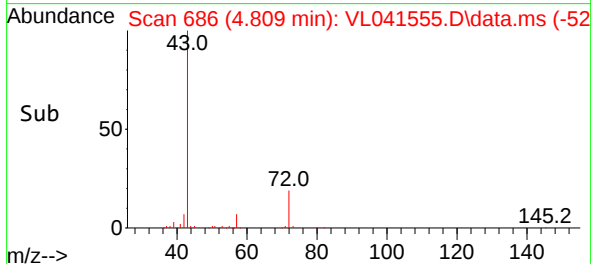
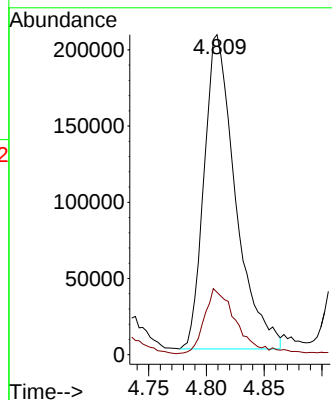
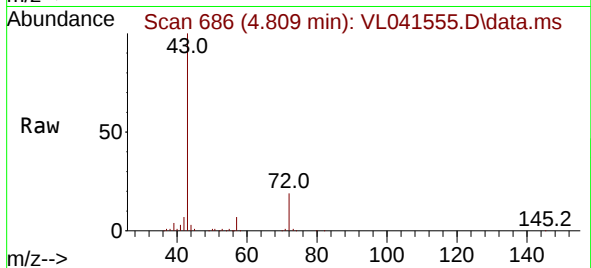
#34  
2-Butanone  
Concen: 2.973 ppbv  
RT: 4.809 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 43 Resp: 389279  
Ion Ratio Lower Upper  
43 100  
72 22.9 17.3 25.9

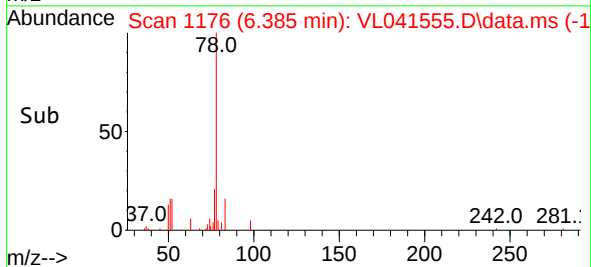
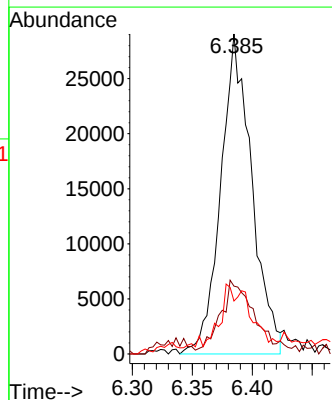
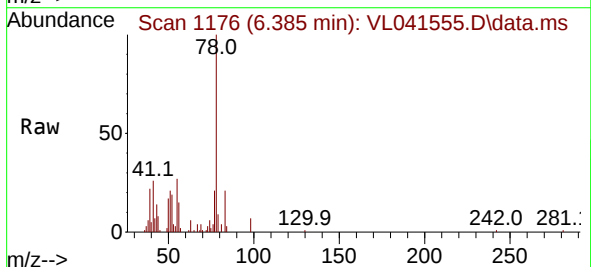
Manual Integrations  
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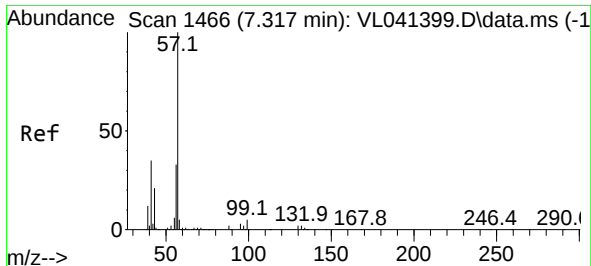
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#36  
Benzene  
Concen: 0.264 ppbv  
RT: 6.385 min Scan# 1176  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Tgt Ion: 78 Resp: 52176  
Ion Ratio Lower Upper  
78 100  
77 18.7 18.1 27.1  
50 14.6 15.5 23.3#





#44

2,2,4-Trimethylpentane

Concen: 0.710 ppbv

RT: 7.346 min Scan# 1466

Delta R.T. 0.003 min

Lab File: VL041555.D

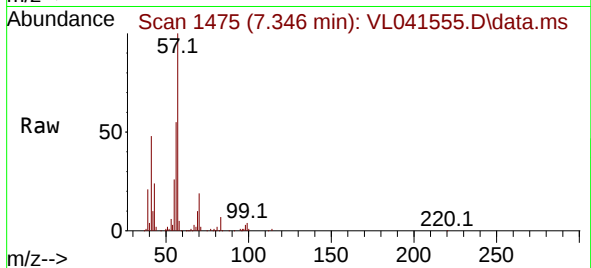
Acq: 19 Aug 2024 20:09

Instrument :

MSVOA\_L

ClientSampleId :

SV3DL



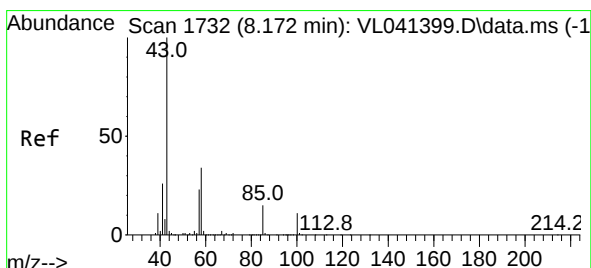
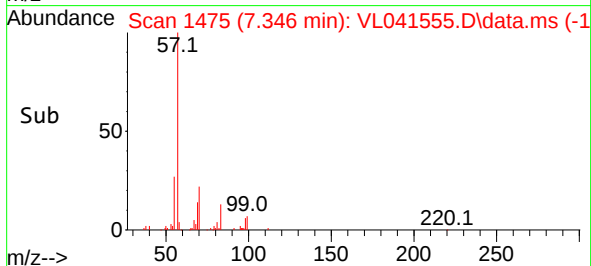
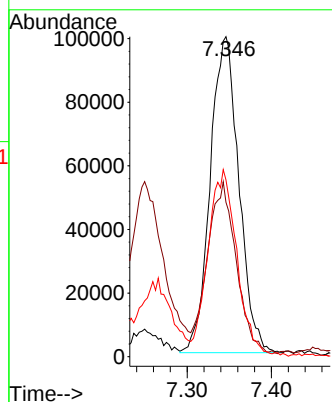
| Tgt Ion: | 57 | Ratio | 100  | Lower | Upper |
|----------|----|-------|------|-------|-------|
| Ion      | 41 | 55.0  | 27.0 | 40.6  |       |
|          | 56 | 59.7  | 25.2 | 37.8  |       |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/20/2024

Supervised By :Mahesh Dadoda 08/20/2024



#50

4-Methyl-2-Pentanone

Concen: 0.688 ppbv

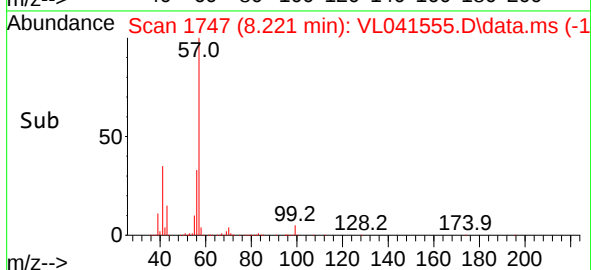
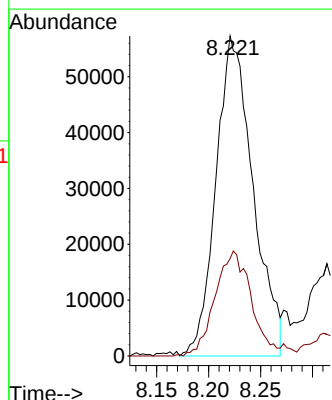
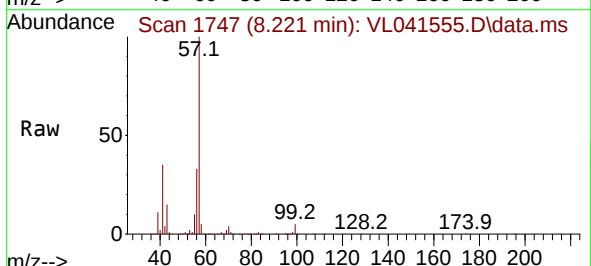
RT: 8.221 min Scan# 1747

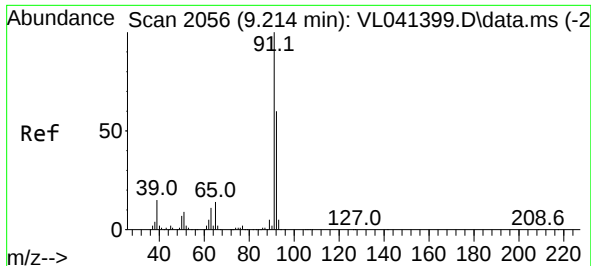
Delta R.T. 0.023 min

Lab File: VL041555.D

Acq: 19 Aug 2024 20:09

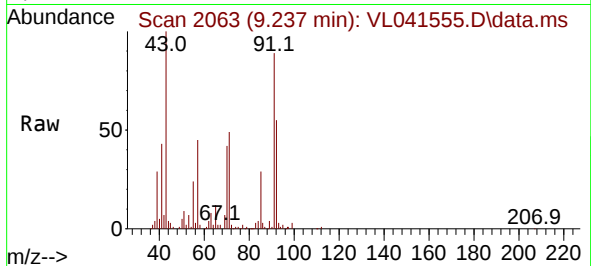
| Tgt Ion: | 43 | Ratio | 100  | Lower | Upper |
|----------|----|-------|------|-------|-------|
| Ion      | 58 | 32.8  | 27.9 | 41.9  |       |





#53  
Toluene  
Concen: 0.937 ppbv  
RT: 9.237 min Scan# 2056  
Delta R.T. -0.003 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

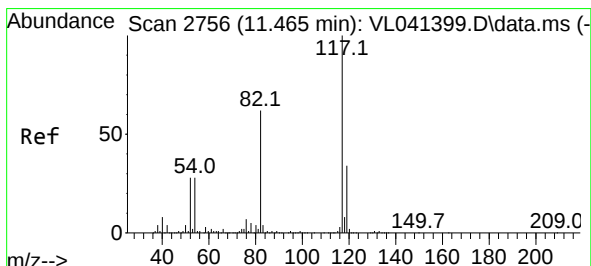
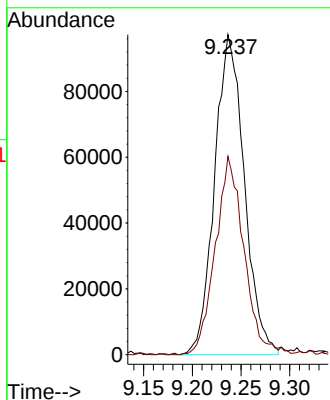
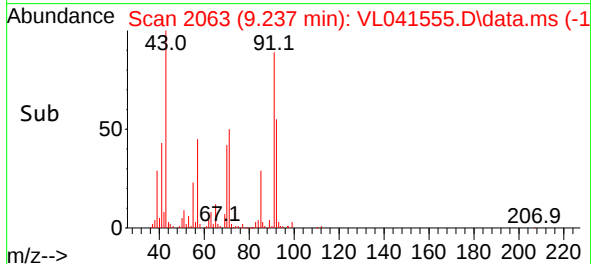
Instrument :  
MSVOA\_L  
Client Sample Id :  
SV3DL



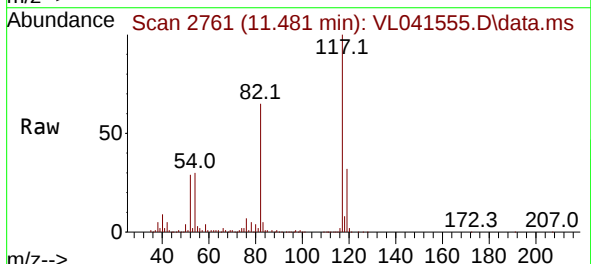
Tgt Ion: 91 Resp: 206360  
Ion Ratio Lower Upper  
91 100  
92 59.9 48.7 73.1

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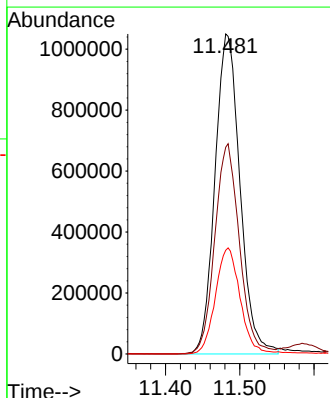
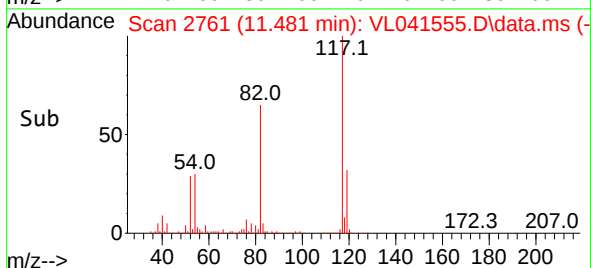
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024

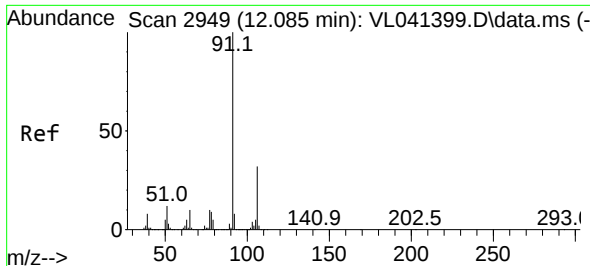


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.481 min Scan# 2761  
Delta R.T. -0.010 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09



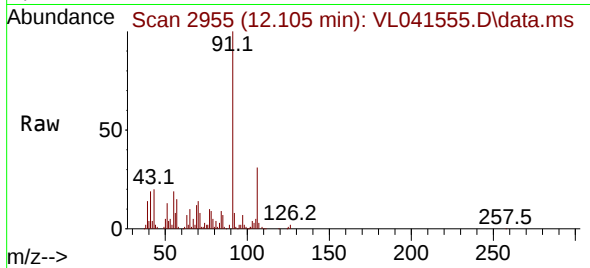
Tgt Ion:117 Resp: 2460399  
Ion Ratio Lower Upper  
117 100  
82 64.5 51.0 76.6  
119 33.5 45.2 67.8#





#58  
Ethyl Benzene  
Concen: 0.741 ppbv  
RT: 12.105 min Scan# 2949  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

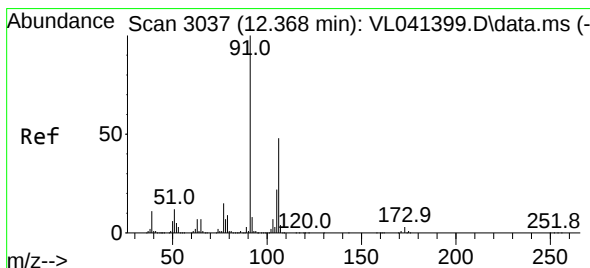
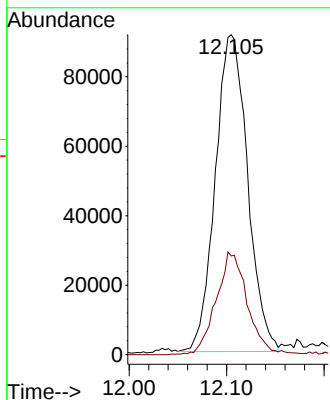
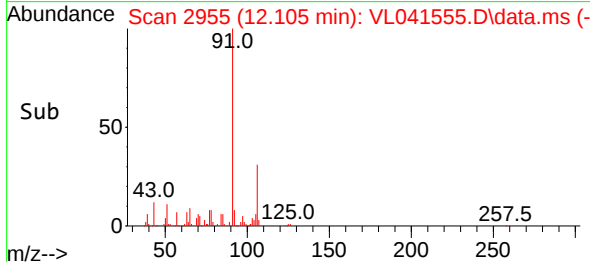
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 91 Resp: 21022  
Ion Ratio Lower Upper  
91 100  
106 30.9 25.8 38.8

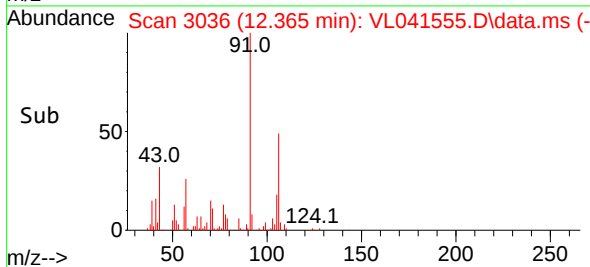
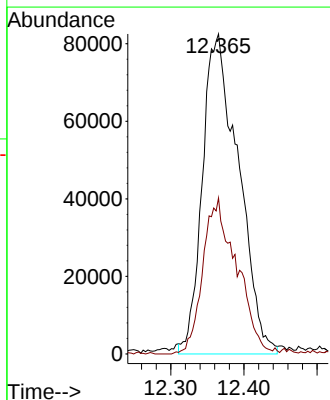
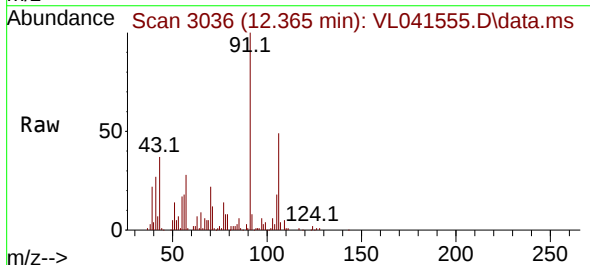
Manual Integrations  
APPROVED

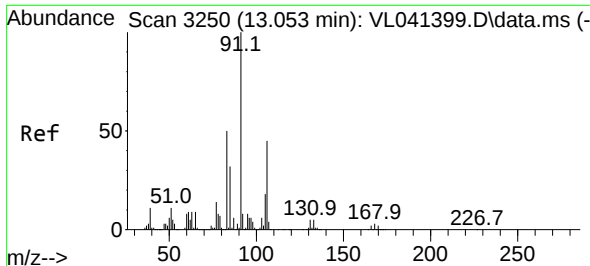
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#59  
m/p-Xylene  
Concen: 1.150 ppbv m  
RT: 12.365 min Scan# 3036  
Delta R.T. -0.029 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Tgt Ion: 91 Resp: 281480  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.3 54.5#





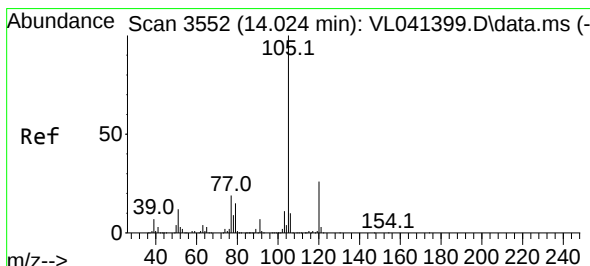
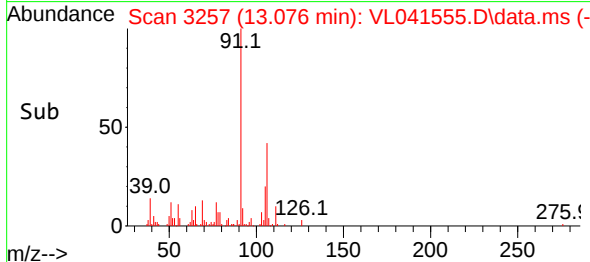
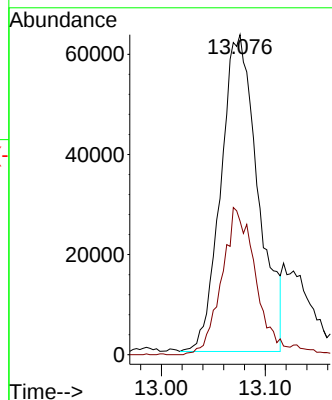
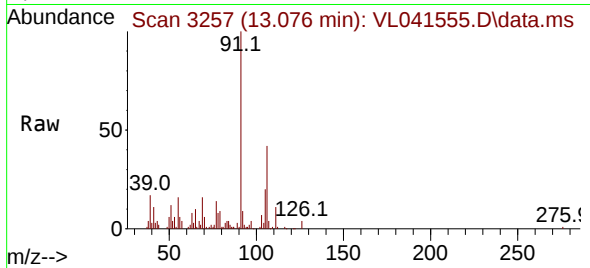
#60  
o-Xylene  
Concen: 0.679 ppbv  
RT: 13.076 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 91 Resp: 15723  
Ion Ratio Lower Upper  
91 100  
106 44.0 23.1 69.3

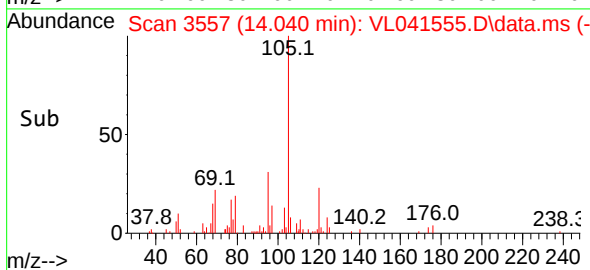
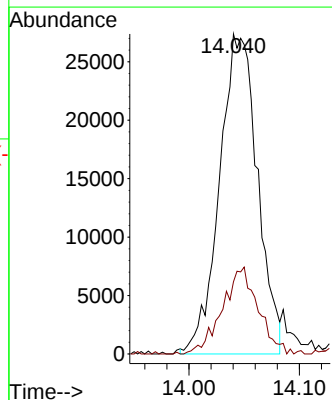
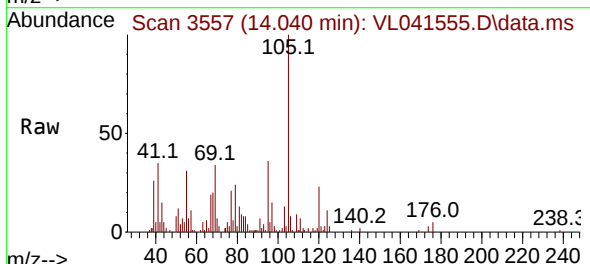
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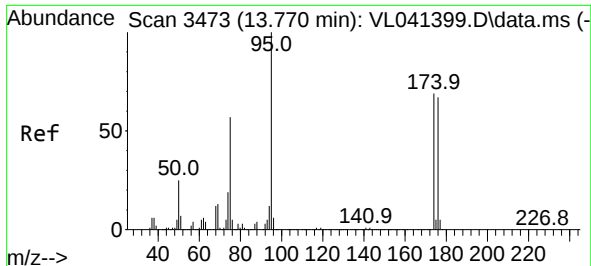
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#62  
Isopropylbenzene  
Concen: 0.185 ppbv m  
RT: 14.040 min Scan# 3557  
Delta R.T. -0.010 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

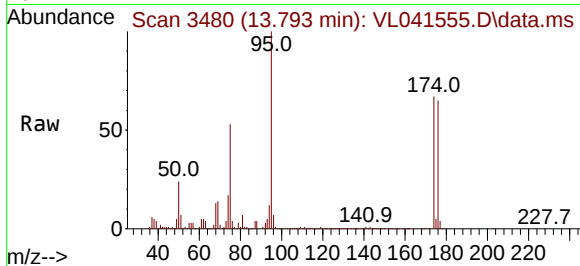
Tgt Ion:105 Resp: 65233  
Ion Ratio Lower Upper  
105 100  
120 0.0 21.0 31.4#





#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.460 ppbv  
RT: 13.793 min Scan# 3473  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

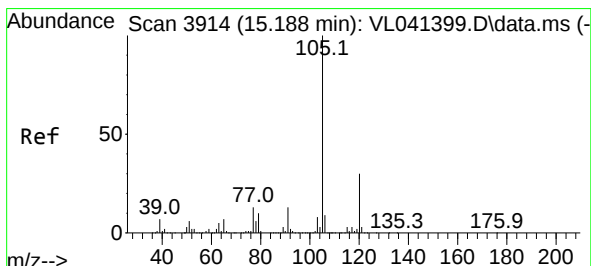
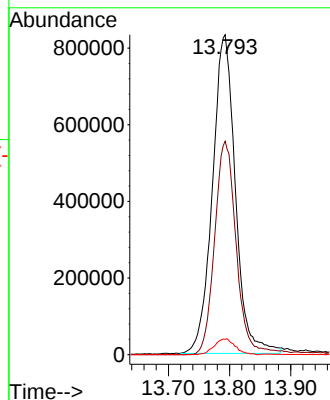
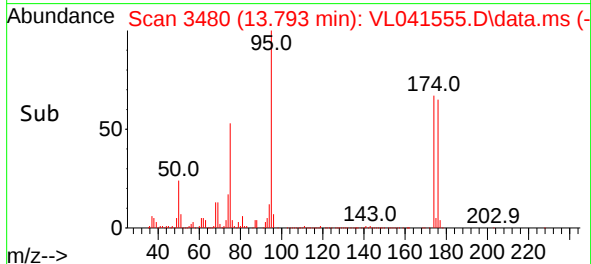
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



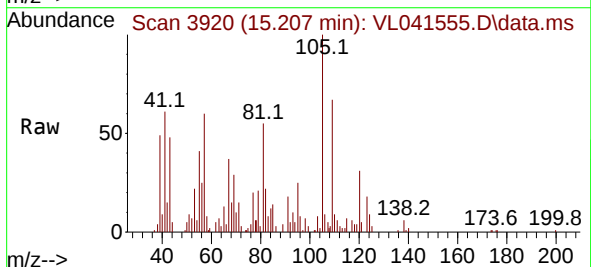
Tgt Ion: 95 Resp: 2169818  
Ion Ratio Lower Upper  
95 100  
174 64.8 56.3 84.5  
175 4.6 4.0 6.0

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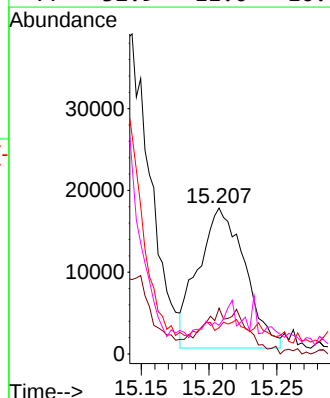
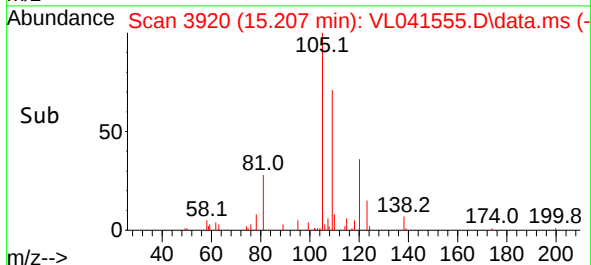
Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024

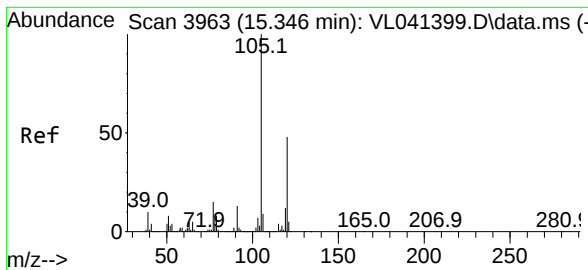


#72  
4-Ethyltoluene  
Concen: 0.150 ppbv  
RT: 15.207 min Scan# 3920  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09



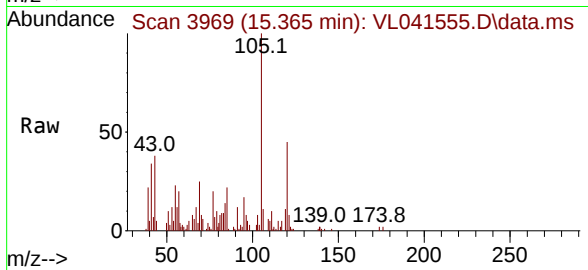
Tgt Ion:105 Resp: 40955  
Ion Ratio Lower Upper  
105 100  
120 31.8 24.2 36.2  
91 28.8 10.4 15.6#  
77 32.9 11.0 16.4#





#73  
1,3,5-Trimethylbenzene  
Concen: 0.181 ppbv m  
RT: 15.365 min Scan# 3969  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09

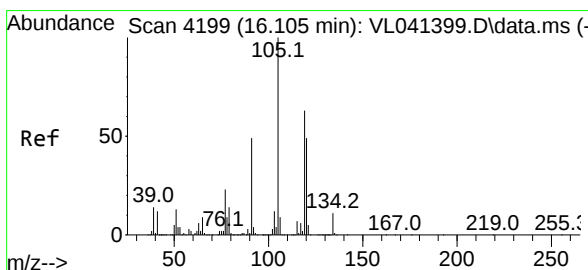
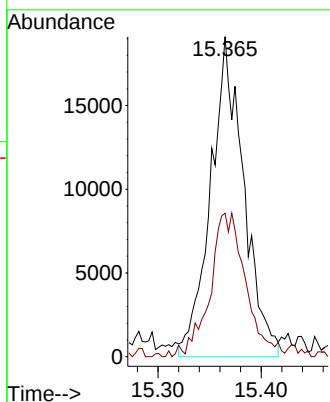
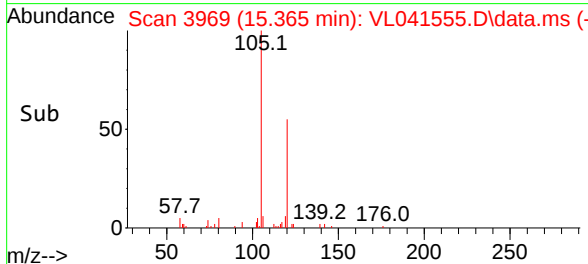
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



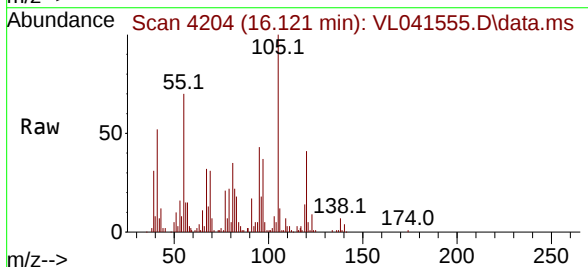
Tgt Ion:105 Resp: 4245  
Ion Ratio Lower Upper  
105 100  
120 44.8 38.6 57.8

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/20/2024  
Supervised By :Mahesh Dadoda 08/20/2024



#74  
1,2,4-Trimethylbenzene  
Concen: 0.394 ppbv  
RT: 16.121 min Scan# 4204  
Delta R.T. -0.006 min  
Lab File: VL041555.D  
Acq: 19 Aug 2024 20:09



Tgt Ion:105 Resp: 107510  
Ion Ratio Lower Upper  
105 100  
120 41.2 39.5 59.3  
91 15.2 39.8 59.8#  
77 15.6 18.2 27.4#

