

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082225\  
 Data File : VN087643.D  
 Acq On : 22 Aug 2025 15:47  
 Operator : JC\MD  
 Sample : Q2936-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-19B-082125

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 08/25/2025  
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 25 01:22:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 22 02:55:42 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response  | Conc     | Units       | Dev(Min) |
|-----------------------------|--------|-------|-----------|----------|-------------|----------|
| -----                       |        |       |           |          |             |          |
| Internal Standards          |        |       |           |          |             |          |
| 1) Pentafluorobenzene       | 8.206  | 168   | 165286    | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.083  | 114   | 419366    | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5        | 11.847 | 117   | 365004    | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.771 | 152   | 189102    | 50.000   | ug/l        | # 0.00   |
| System Monitoring Compounds |        |       |           |          |             |          |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 248548    | 73.393   | ug/l        | 0.02     |
| Spiked Amount               | 50.000 | Range | 74 - 125  | Recovery | = 146.780%# |          |
| 35) Dibromofluoromethane    | 8.147  | 113   | 134751    | 44.504   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124  | Recovery | = 89.000%   |          |
| 50) Toluene-d8              | 10.547 | 98    | 524077    | 46.245   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113  | Recovery | = 92.500%   |          |
| 62) 4-Bromofluorobenzene    | 12.829 | 95    | 190613    | 47.296   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121  | Recovery | = 94.600%   |          |
| Target Compounds            |        |       |           |          |             |          |
|                             |        |       |           |          |             | Qvalue   |
| 16) Acetone                 | 4.430  | 43    | 8040m     | 4.361    | ug/l        |          |
| 19) Methyl tert-butyl Ether | 5.789  | 73    | 14902     | 1.667    | ug/l        | 97       |
| 40) Benzene                 | 8.571  | 78    | 39302099m | 2758.617 | ug/l        |          |
| 52) Toluene                 | 10.606 | 92    | 335235    | 37.955   | ug/l        | 98       |
| 67) Ethyl Benzene           | 11.929 | 91    | 22094367m | 1405.262 | ug/l        |          |
| 68) m/p-Xylenes             | 12.047 | 106   | 2960620   | 513.447  | ug/l        | 100      |
| 69) o-Xylene                | 12.376 | 106   | 2019730   | 357.422  | ug/l        | 99       |
| 73) Isopropylbenzene        | 12.671 | 105   | 1130458   | 73.980   | ug/l        | 99       |
| 78) n-propylbenzene         | 13.012 | 91    | 318578    | 16.926   | ug/l        | 99       |
| 80) 1,3,5-Trimethylbenzene  | 13.153 | 105   | 575383    | 44.387   | ug/l        | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.459 | 105   | 3547203   | 273.353  | ug/l        | 100      |
| 86) p-Isopropyltoluene      | 13.706 | 119   | 122559    | 9.259    | ug/l        | # 70     |
| -----                       |        |       |           |          |             |          |

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

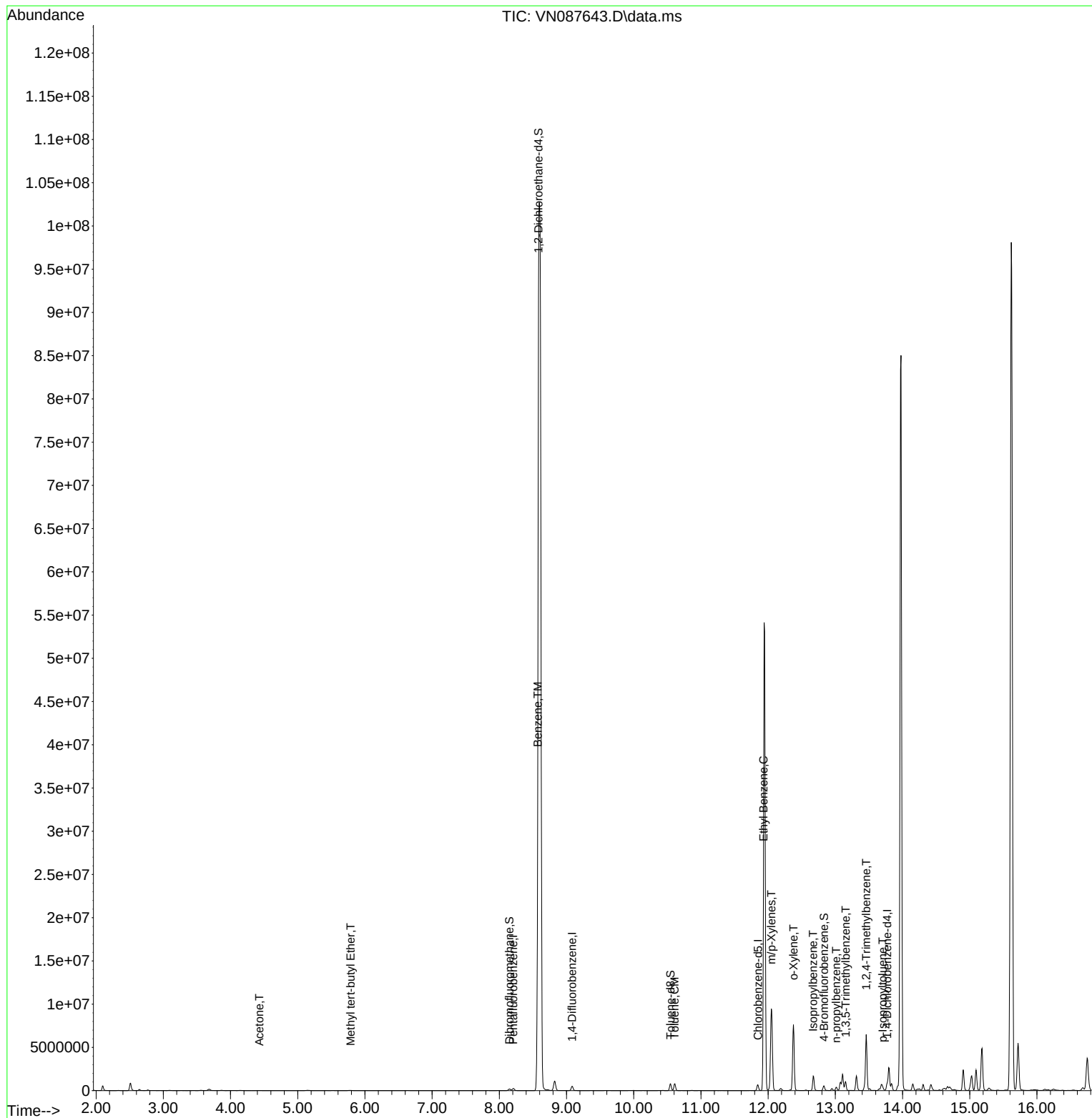
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082225\  
Data File : VN087643.D  
Acq On : 22 Aug 2025 15:47  
Operator : JC\MD  
Sample : Q2936-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 17 Sample Multiplier: 1

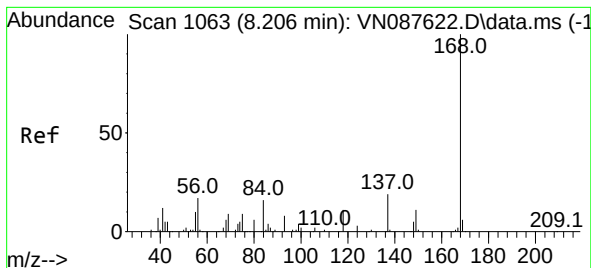
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125

Manual Integrations  
APPROVED

Reviewed By : John Carlone 08/25/2025  
Supervised By : Semsettin Yesilyurt 08/25/2025

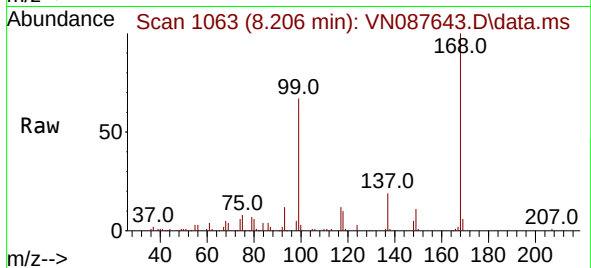
Quant Time: Aug 25 01:22:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 22 02:55:42 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

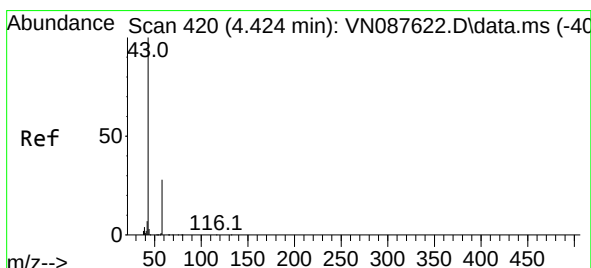
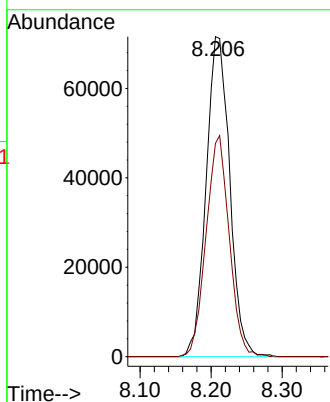
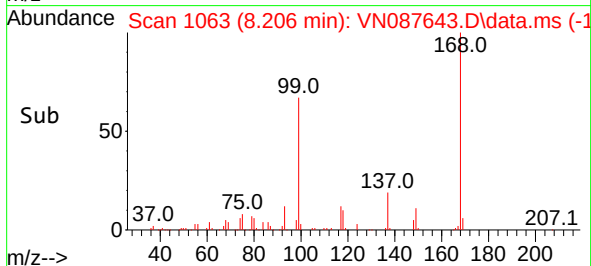
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125



Tgt Ion:168 Resp: 165280  
Ion Ratio Lower Upper  
168 100  
99 66.7 57.2 85.8

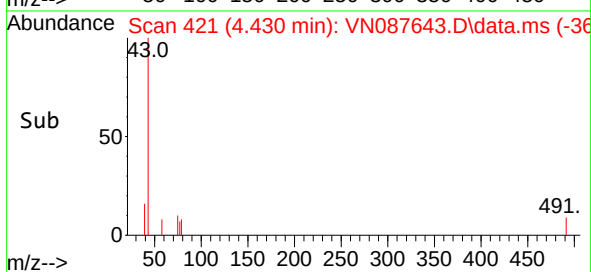
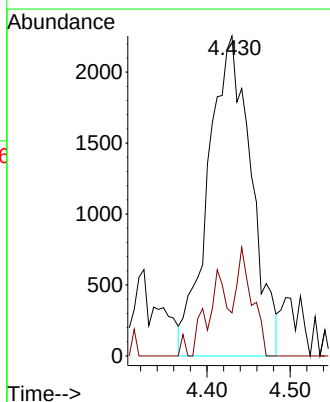
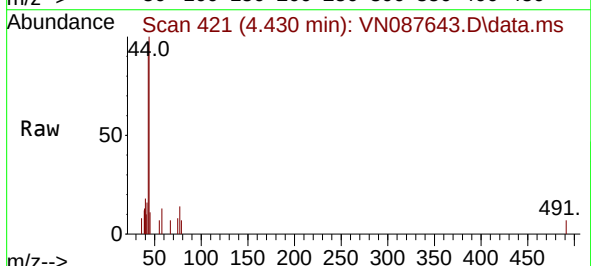
Manual Integrations  
APPROVED

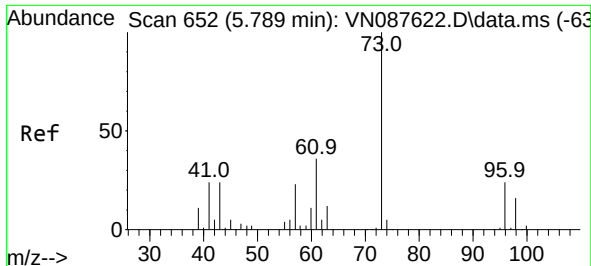
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025



#16  
Acetone  
Concen: 4.361 ug/l m  
RT: 4.430 min Scan# 421  
Delta R.T. 0.006 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Tgt Ion: 43 Resp: 8040  
Ion Ratio Lower Upper  
43 100  
58 13.4 22.6 33.8#





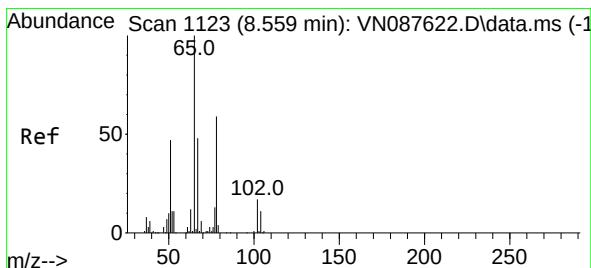
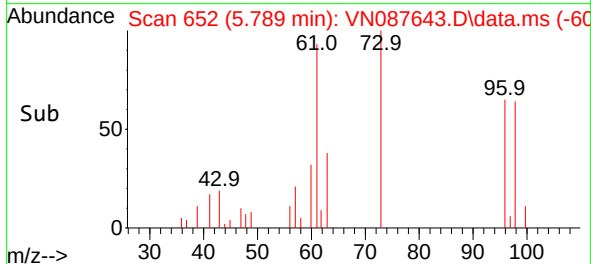
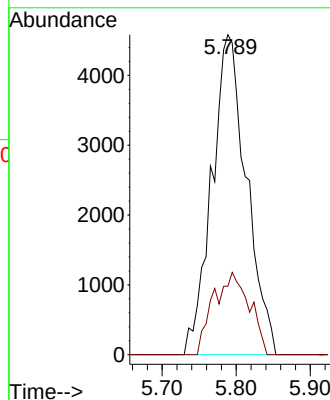
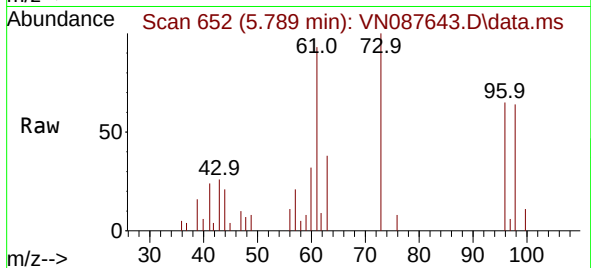
#19  
Methyl tert-butyl Ether  
Concen: 1.667 ug/l  
RT: 5.789 min Scan# 612  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125

Tgt Ion: 73 Resp: 14902  
Ion Ratio Lower Upper  
73 100  
57 21.4 18.4 27.6

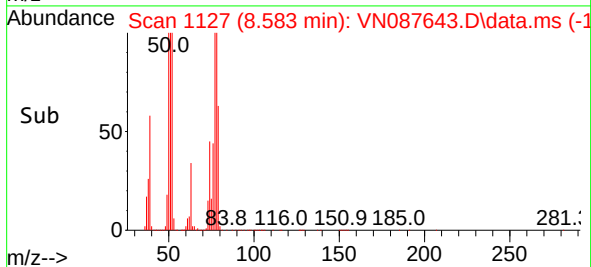
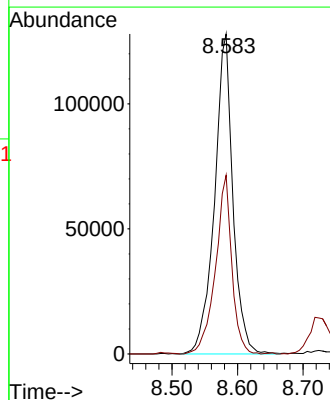
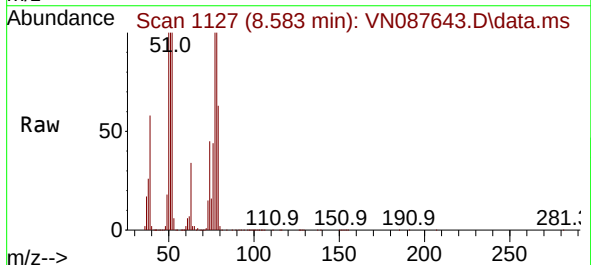
Manual Integrations  
APPROVED

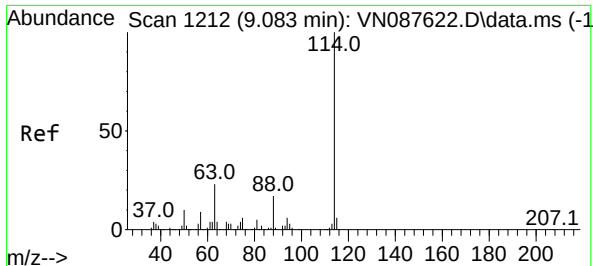
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025



#33  
1,2-Dichloroethane-d4  
Concen: 73.393 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.024 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

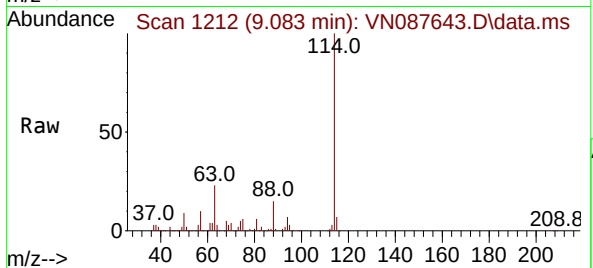
Tgt Ion: 65 Resp: 248548  
Ion Ratio Lower Upper  
65 100  
67 49.7 0.0 100.0





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.083 min Scan# 114  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

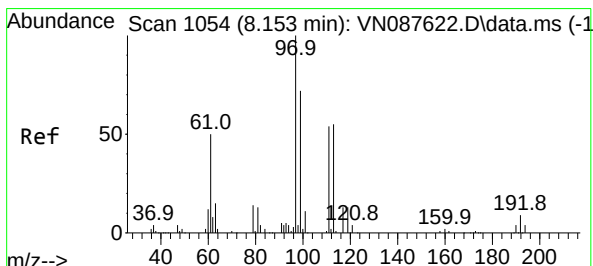
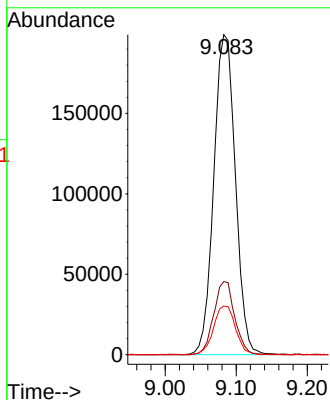
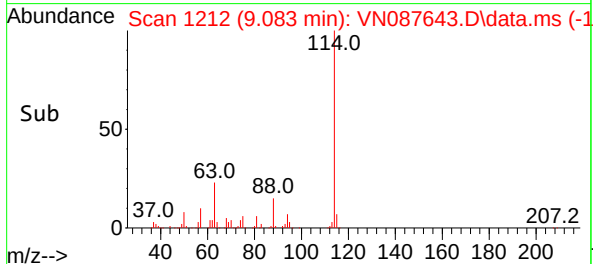
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125



Tgt Ion:114 Resp: 419360  
Ion Ratio Lower Upper  
114 100  
63 22.7 0.0 45.2  
88 15.2 0.0 33.4

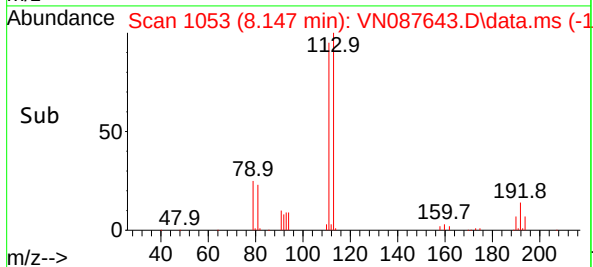
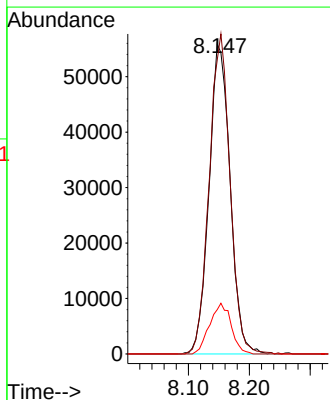
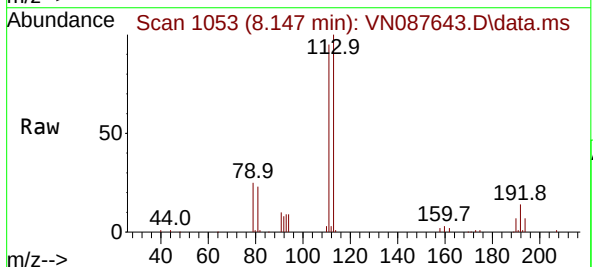
Manual Integrations  
APPROVED

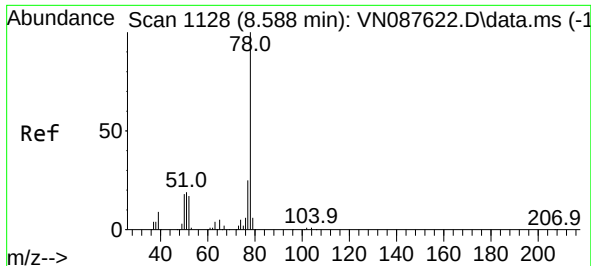
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025



#35  
Dibromofluoromethane  
Concen: 44.504 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Tgt Ion:113 Resp: 134751  
Ion Ratio Lower Upper  
113 100  
111 101.8 82.8 124.2  
192 16.7 12.8 19.2





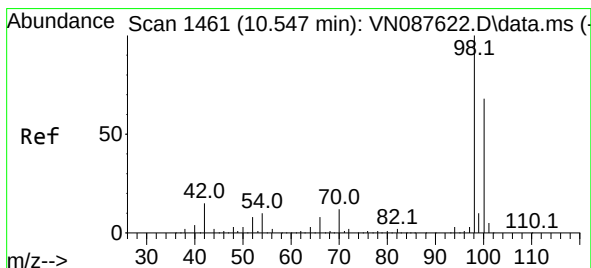
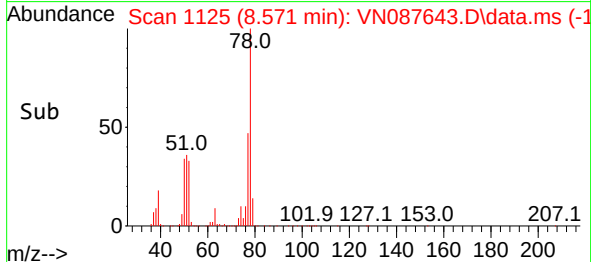
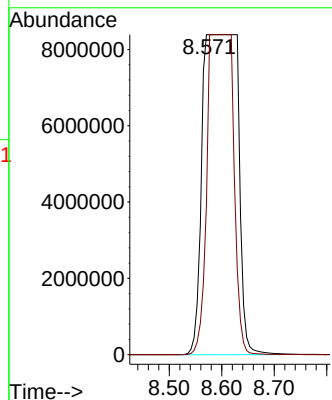
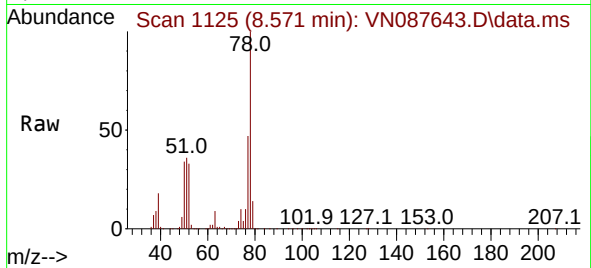
#40  
Benzene  
Concen: 2758.617 ug/l m  
RT: 8.571 min Scan# 1125  
Delta R.T. -0.018 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125

Tgt Ion: 78 Resp: 39302099  
Ion Ratio Lower Upper  
78 100  
77 46.9 19.7 29.5

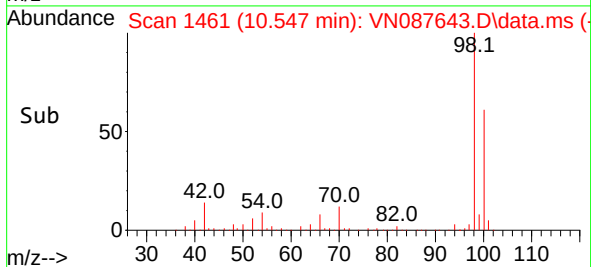
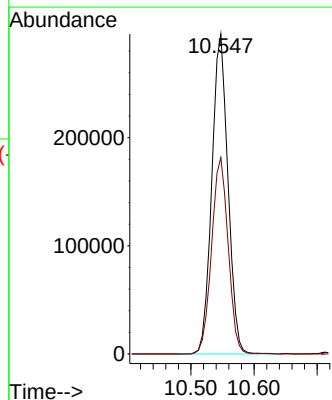
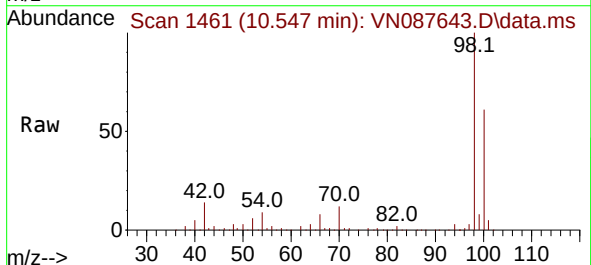
Manual Integrations  
APPROVED

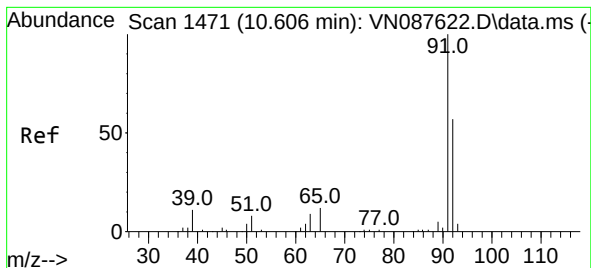
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025



#50  
Toluene-d8  
Concen: 46.245 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Tgt Ion: 98 Resp: 524077  
Ion Ratio Lower Upper  
98 100  
100 62.9 52.8 79.2





#52

Toluene

Concen: 37.955 ug/l

RT: 10.606 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VN087643.D

Acq: 22 Aug 2025 15:47

Instrument :

MSVOA\_N

ClientSampleId :

MW-19B-082125

Tgt Ion: 92 Resp: 33523

Ion Ratio Lower Upper

92 100

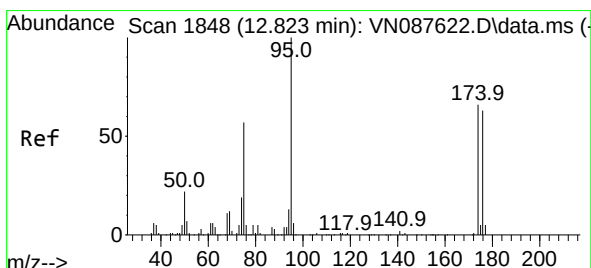
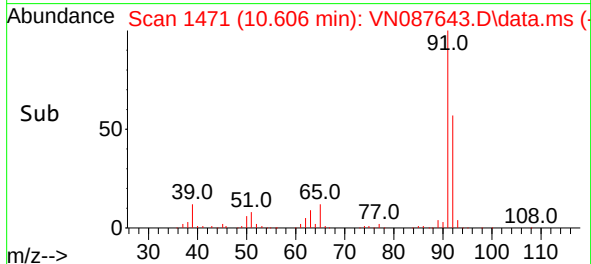
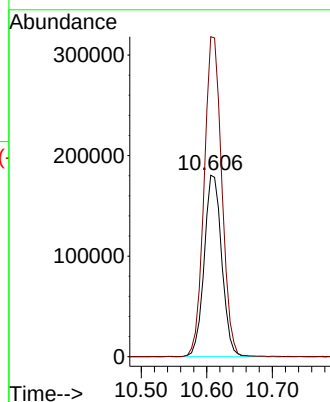
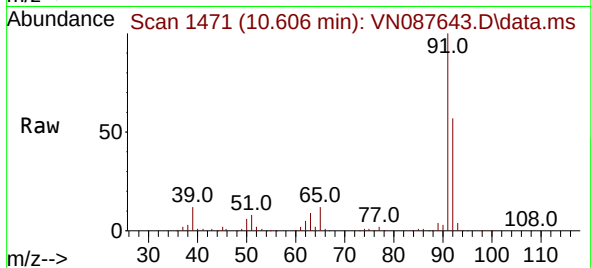
91 177.9 140.4 210.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#62

4-Bromofluorobenzene

Concen: 47.296 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN087643.D

Acq: 22 Aug 2025 15:47

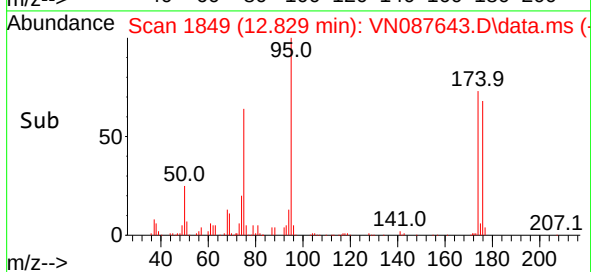
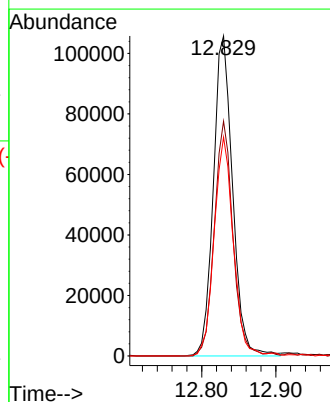
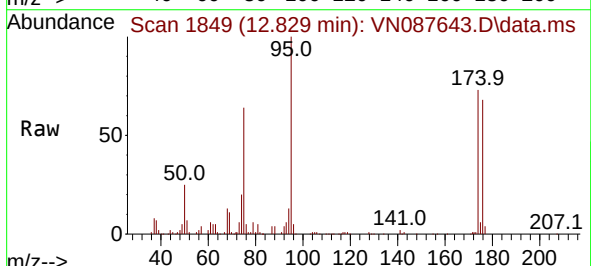
Tgt Ion: 95 Resp: 190613

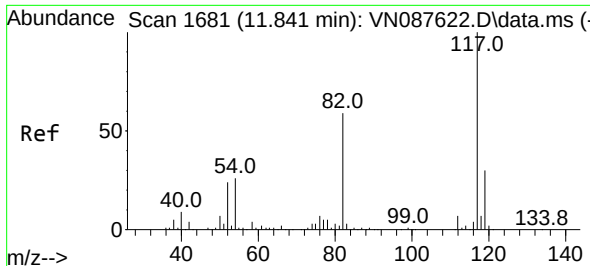
Ion Ratio Lower Upper

95 100

174 71.1 0.0 138.4

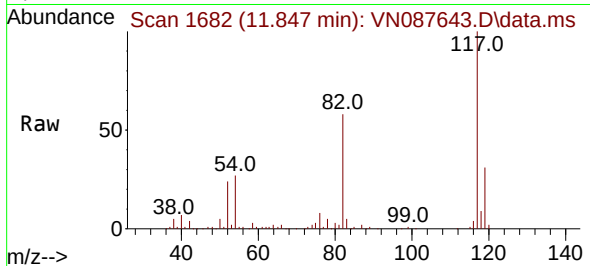
176 67.8 0.0 132.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

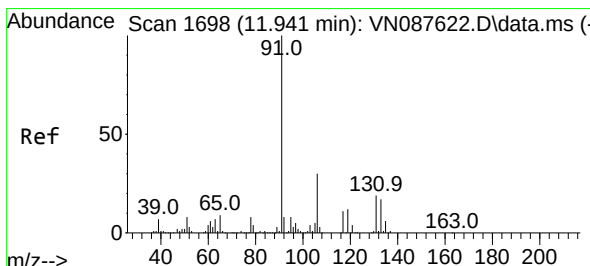
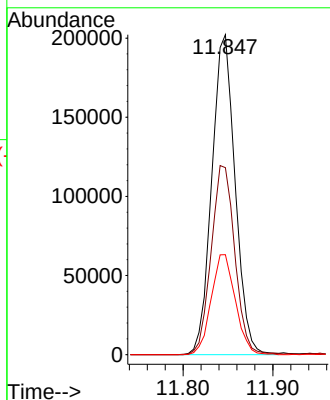
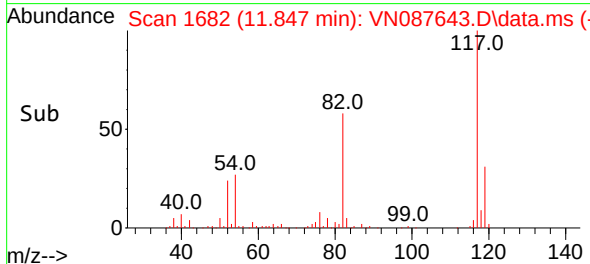
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125



Tgt Ion:117 Resp: 365004  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.4 71.2  
119 31.2 24.3 36.5

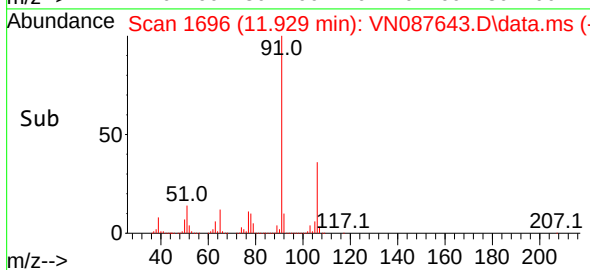
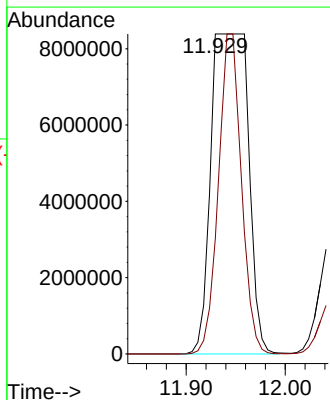
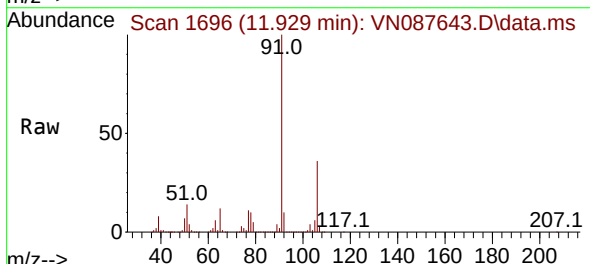
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025

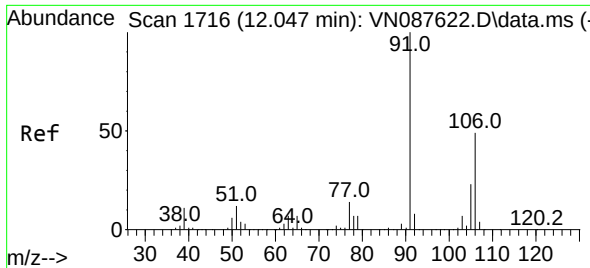


#67  
Ethyl Benzene  
Concen: 1405.262 ug/l m  
RT: 11.929 min Scan# 1696  
Delta R.T. -0.012 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Tgt Ion: 91 Resp:22094367  
Ion Ratio Lower Upper  
91 100  
106 36.1 24.1 36.1

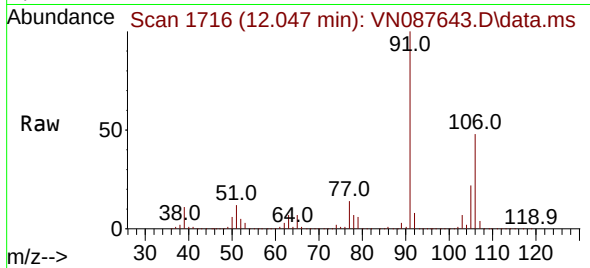






#68  
m/p-Xylenes  
Concen: 513.447 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

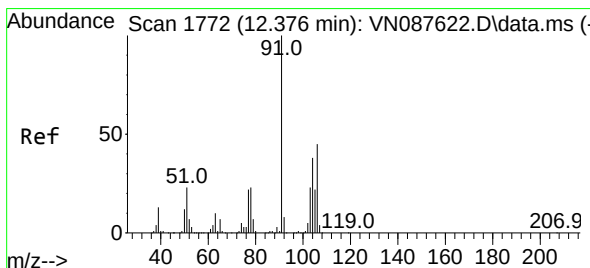
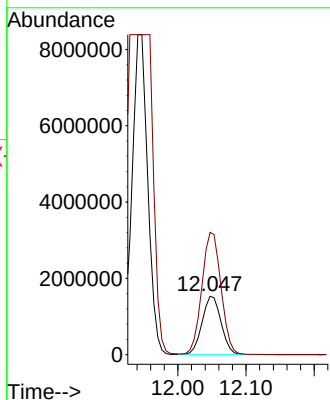
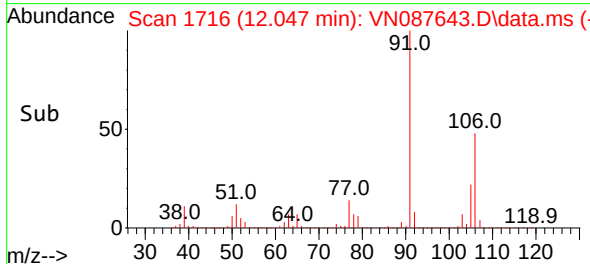
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125



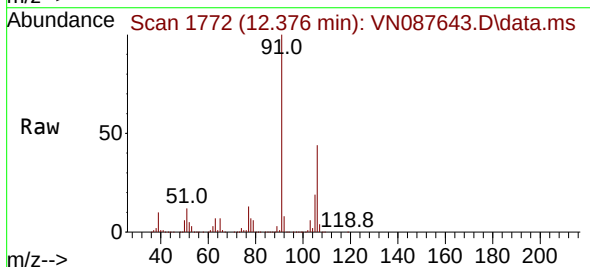
Tgt Ion:106 Resp: 2960620  
Ion Ratio Lower Upper  
106 100  
91 210.9 169.3 253.9

Manual Integrations  
APPROVED

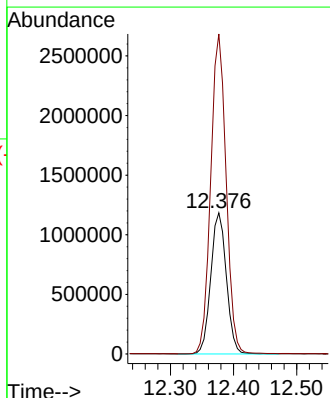
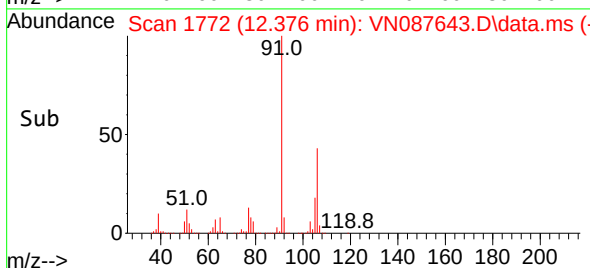
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025

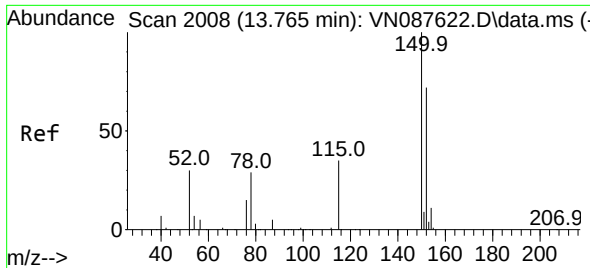


#69  
o-Xylene  
Concen: 357.422 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47



Tgt Ion:106 Resp: 2019730  
Ion Ratio Lower Upper  
106 100  
91 224.9 111.4 334.2





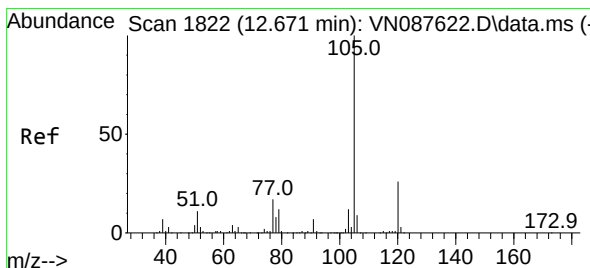
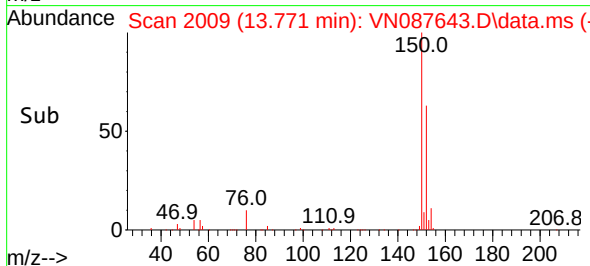
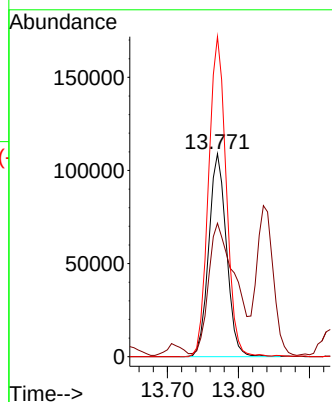
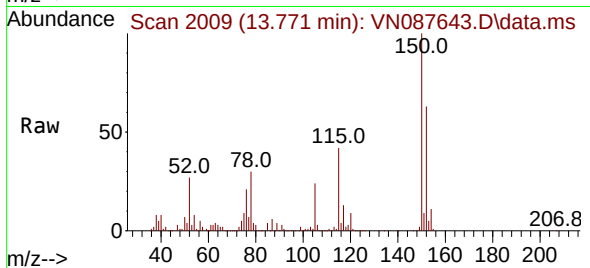
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.771 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125

Tgt Ion:152 Resp: 18910  
Ion Ratio Lower Upper  
152 100  
115 0.0 32.3 96.8  
150 157.1 0.0 351.0

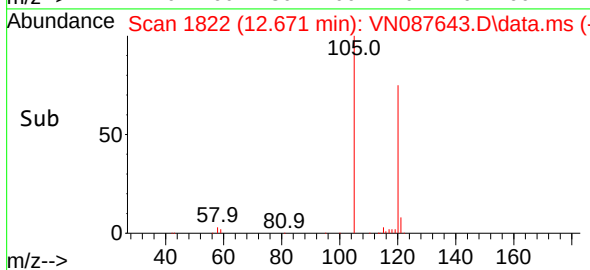
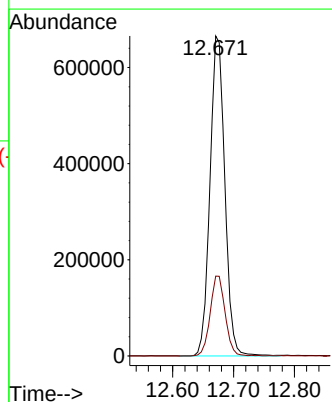
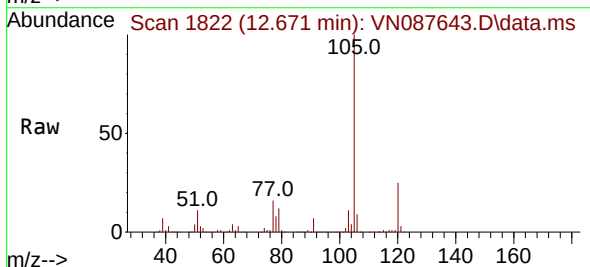
Manual Integrations  
APPROVED

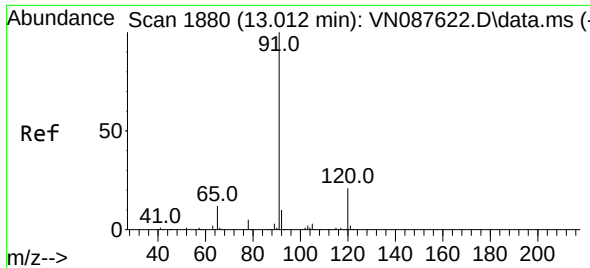
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025



#73  
Isopropylbenzene  
Concen: 73.980 ug/l  
RT: 12.671 min Scan# 1822  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Tgt Ion:105 Resp: 1130458  
Ion Ratio Lower Upper  
105 100  
120 25.1 12.8 38.3





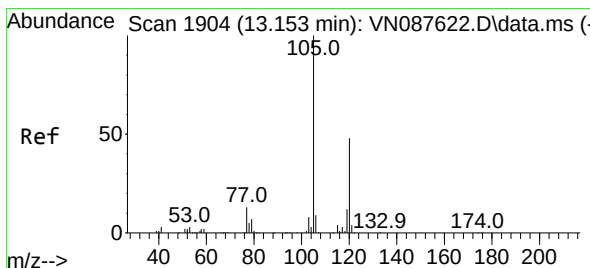
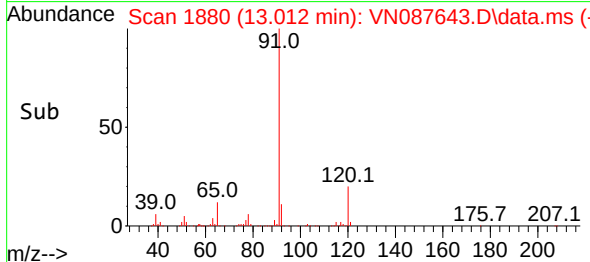
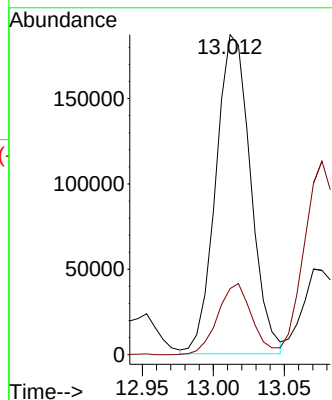
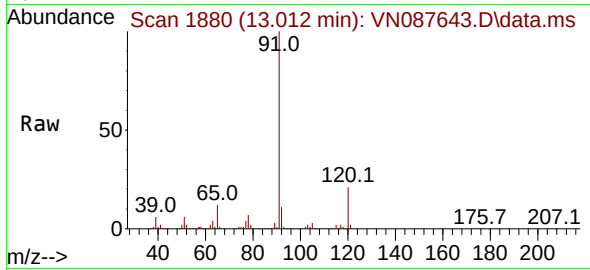
#78  
n-propylbenzene  
Concen: 16.926 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-19B-082125

Tgt Ion: 91 Resp: 318578  
Ion Ratio Lower Upper  
91 100  
120 21.7 10.7 32.1

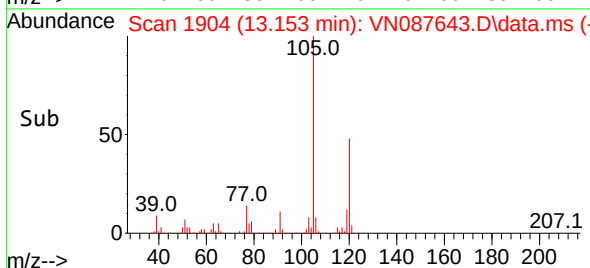
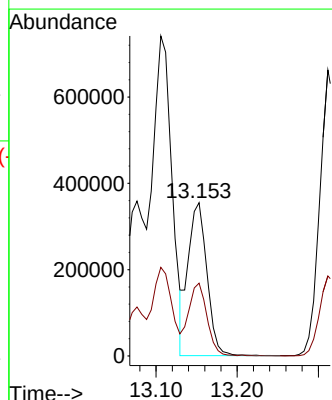
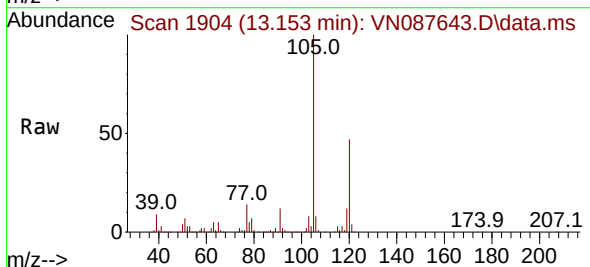
Manual Integrations  
APPROVED

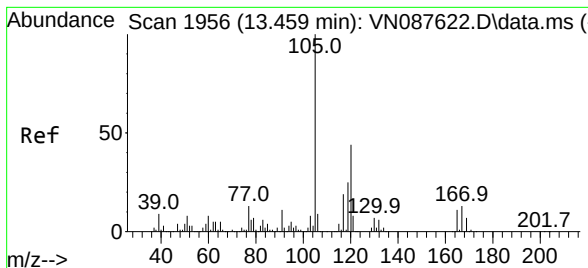
Reviewed By :John Carlone 08/25/2025  
Supervised By :Semsettin Yesilyurt 08/25/2025



#80  
1,3,5-Trimethylbenzene  
Concen: 44.387 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087643.D  
Acq: 22 Aug 2025 15:47

Tgt Ion:105 Resp: 575383  
Ion Ratio Lower Upper  
105 100  
120 46.9 23.2 69.6





#84

1,2,4-Trimethylbenzene

Concen: 273.353 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087643.D

Acq: 22 Aug 2025 15:47

Instrument :

MSVOA\_N

ClientSampleId :

MW-19B-082125

Tgt Ion:105 Resp: 354720

Ion Ratio Lower Upper

105 100

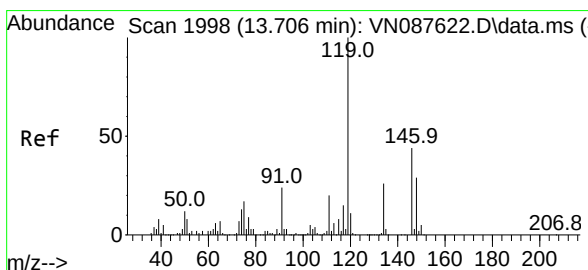
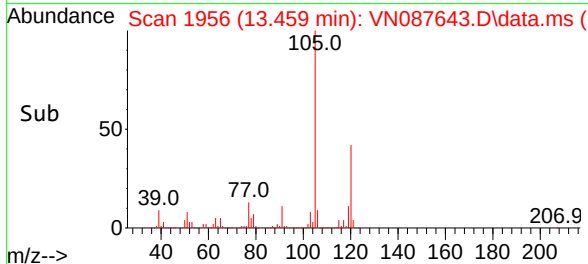
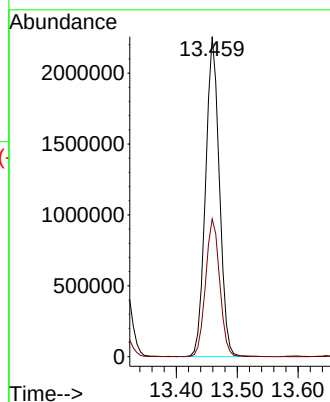
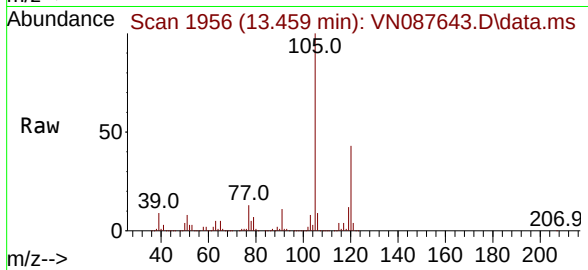
120 44.0 22.0 66.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#86

p-Isopropyltoluene

Concen: 9.259 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN087643.D

Acq: 22 Aug 2025 15:47

Tgt Ion:119 Resp: 122559

Ion Ratio Lower Upper

119 100

134 20.4 12.7 38.0

91 0.0 12.5 37.5#

