

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100325\  
 Data File : VN088021.D  
 Acq On : 03 Oct 2025 14:17  
 Operator : JC\MD  
 Sample : Q3274-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW4

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/06/2025  
 Supervised By :Semsettin Yesilyurt 10/06/2025

Quant Time: Oct 04 02:56:20 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092325W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 24 05:05:30 2025  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                       |                |      |                     |         |        |          |
| Internal Standards          |                |      |                     |         |        |          |
| 1) Pentafluorobenzene       | 8.212          | 168  | 261013              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.082          | 114  | 577276              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.841         | 117  | 582521              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.770         | 152  | 296966              | 50.000  | ug/l   | 0.00     |
|                             |                |      |                     |         |        |          |
| System Monitoring Compounds |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.559          | 65   | 229841              | 52.324  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = 104.640% |         |        |          |
| 35) Dibromofluoromethane    | 8.147          | 113  | 188989              | 45.090  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = 90.180%  |         |        |          |
| 50) Toluene-d8              | 10.541         | 98   | 735191              | 49.880  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = 99.760%  |         |        |          |
| 62) 4-Bromofluorobenzene    | 12.823         | 95   | 278766              | 52.912  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 77 - 121 |      | Recovery = 105.820% |         |        |          |
|                             |                |      |                     |         |        |          |
| Target Compounds            |                |      |                     |         |        |          |
|                             |                |      |                     |         | Qvalue |          |
| 31) Cyclohexane             | 8.241          | 56   | 638794              | 129.685 | ug/l # | 95       |
| 39) Methylcyclohexane       | 9.582          | 83   | 1978856             | 355.926 | ug/l   | 98       |
| 40) Benzene                 | 8.582          | 78   | 63341               | 3.796   | ug/l   | 98       |
| 52) Toluene                 | 10.612         | 92   | 15963               | 1.524   | ug/l   | 89       |
| 67) Ethyl Benzene           | 11.941         | 91   | 255552              | 12.354  | ug/l   | 98       |
| 68) m/p-Xylenes             | 12.047         | 106  | 16580               | 2.096   | ug/l   | 85       |
| 73) Isopropylbenzene        | 12.670         | 105  | 371414              | 20.180  | ug/l   | 100      |
| 78) n-propylbenzene         | 13.012         | 91   | 1443514             | 62.731  | ug/l   | 100      |
| 83) tert-Butylbenzene       | 13.411         | 119  | 26053               | 1.933   | ug/l   | 87       |
| 85) sec-Butylbenzene        | 13.594         | 105  | 261070              | 13.215  | ug/l # | 66       |
| 86) p-Isopropyltoluene      | 13.706         | 119  | 31294               | 1.870   | ug/l   | 93       |
| 89) n-Butylbenzene          | 14.029         | 91   | 306176m             | 19.362  | ug/l   |          |
| -----                       |                |      |                     |         |        |          |

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

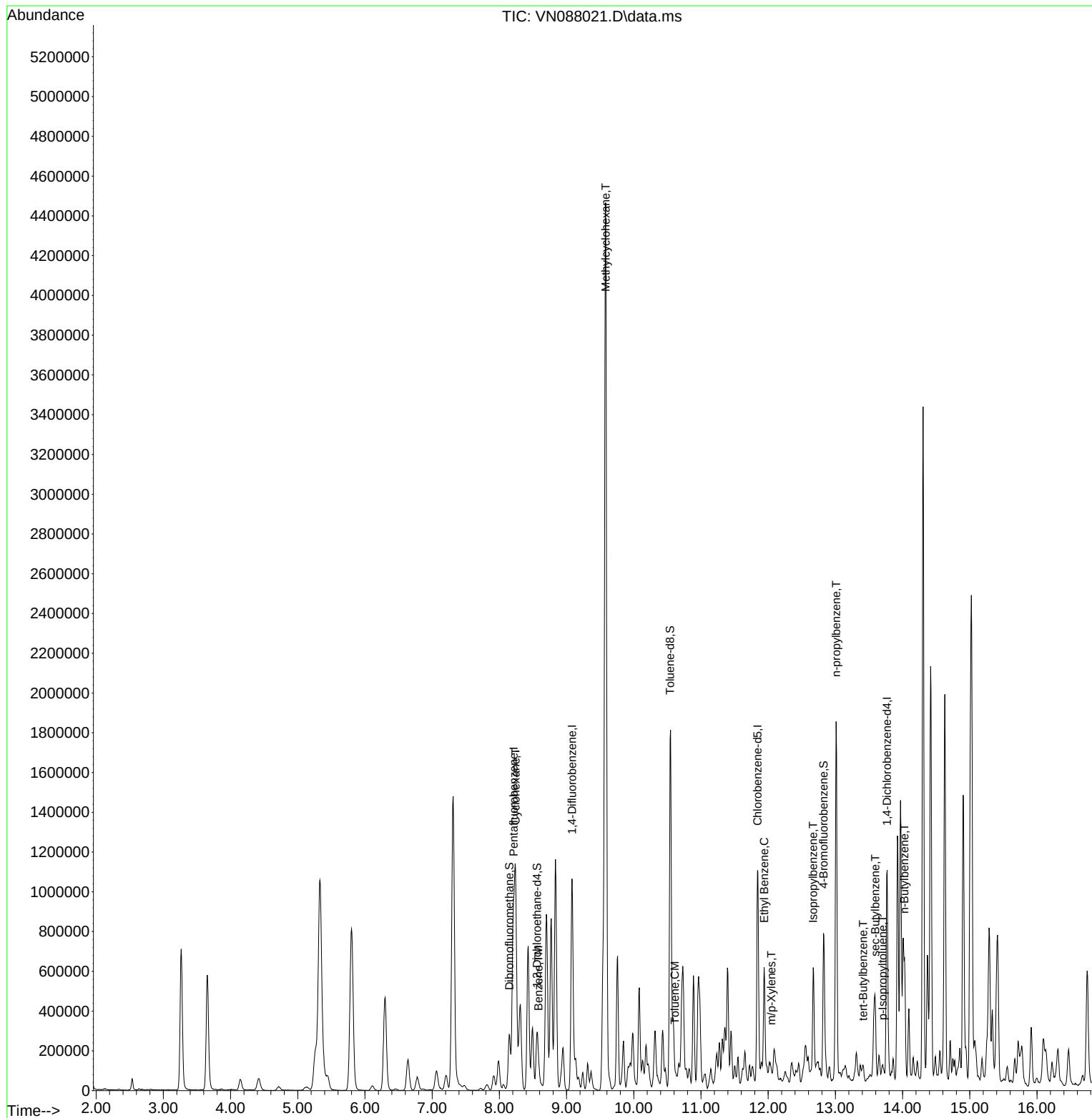
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100325\  
Data File : VN088021.D  
Acq On : 03 Oct 2025 14:17  
Operator : JC\MD  
Sample : Q3274-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

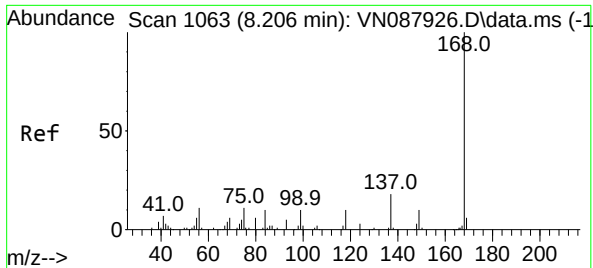
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4

Quant Time: Oct 04 02:56:20 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092325W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 24 05:05:30 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

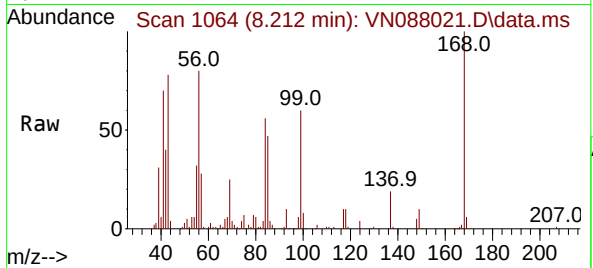
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. 0.006 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

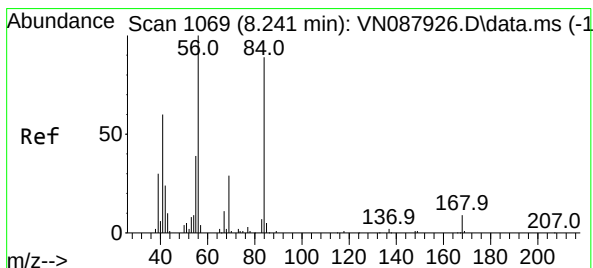
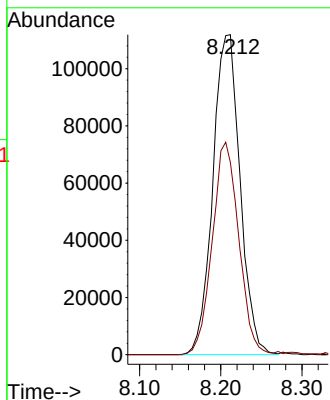
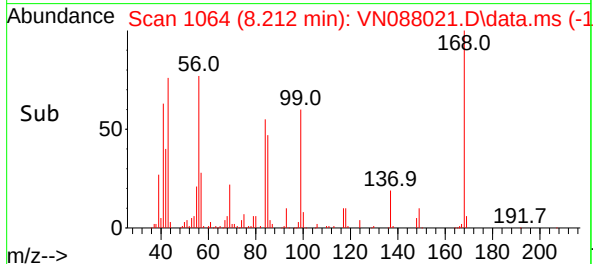
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4



Tgt Ion:168 Resp: 26101  
Ion Ratio Lower Upper  
168 100  
99 60.1 52.2 78.2

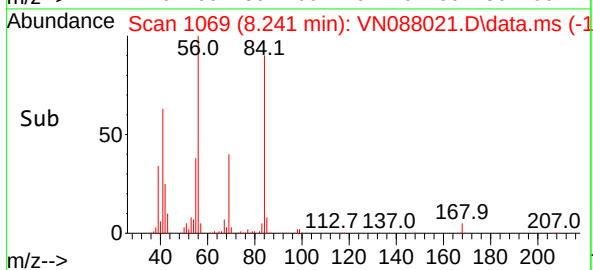
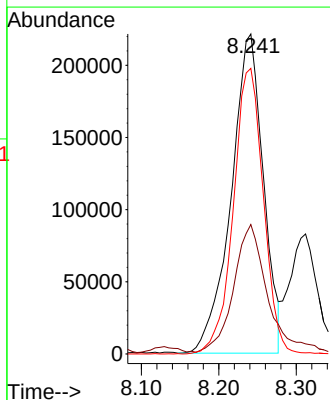
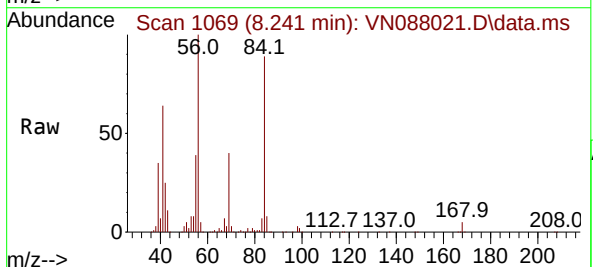
Manual Integrations  
APPROVED

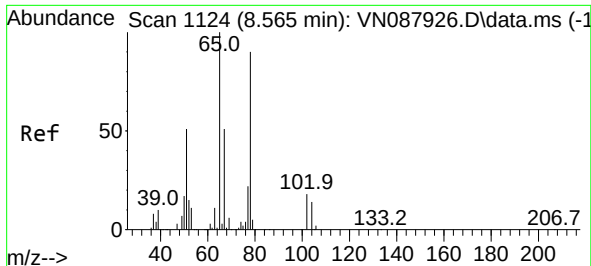
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025



#31  
Cyclohexane  
Concen: 129.685 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

Tgt Ion: 56 Resp: 638794  
Ion Ratio Lower Upper  
56 100  
69 38.9 23.4 35.0#  
84 89.4 70.8 106.2





#33

1,2-Dichloroethane-d4

Concen: 52.324 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN088021.D

Acq: 03 Oct 2025 14:17

Instrument :

MSVOA\_N

ClientSampleId :

MW4

Tgt Ion: 65 Resp: 22984

Ion Ratio Lower Upper

65 100

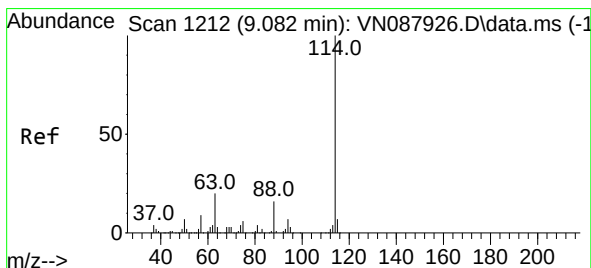
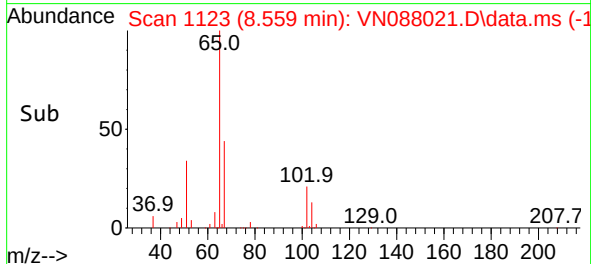
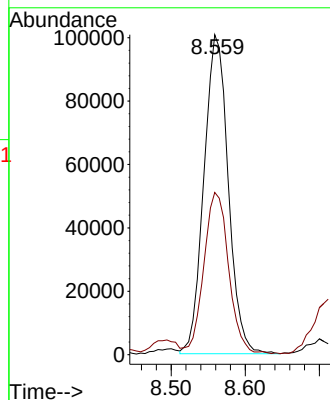
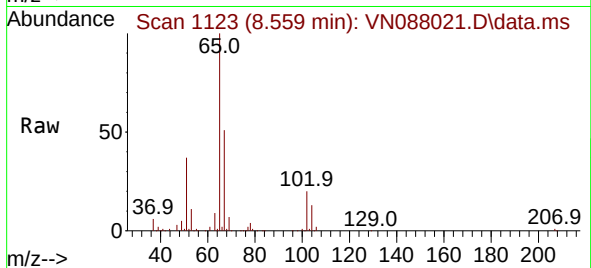
67 51.2 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 10/06/2025

Supervised By :Semsettin Yesilyurt 10/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088021.D

Acq: 03 Oct 2025 14:17

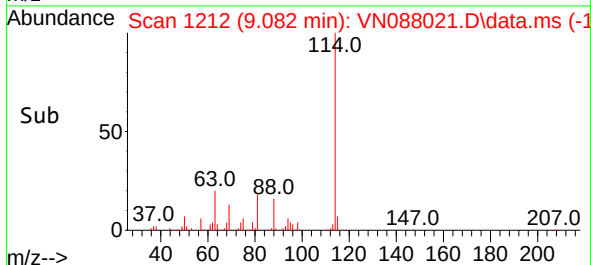
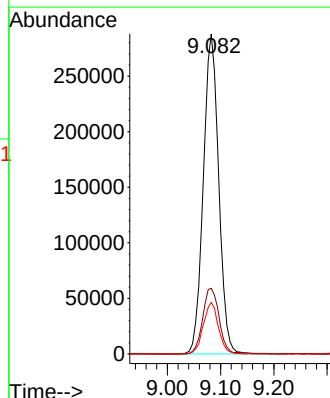
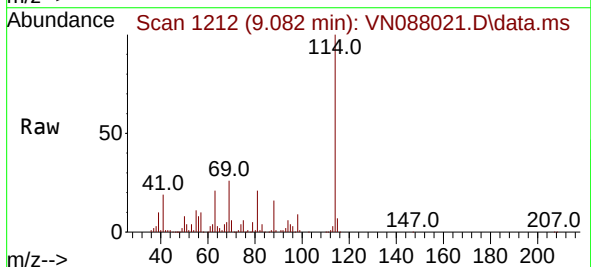
Tgt Ion:114 Resp: 577276

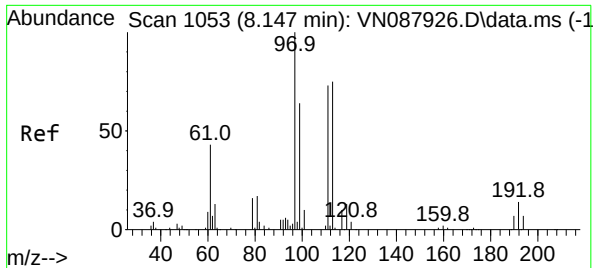
Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.0

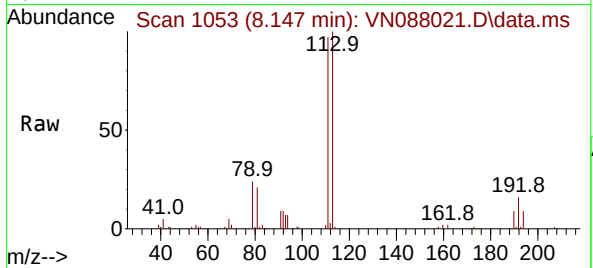
88 16.1 0.0 31.8





#35  
Dibromofluoromethane  
Concen: 45.090 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

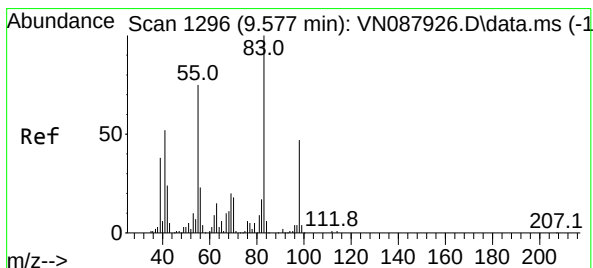
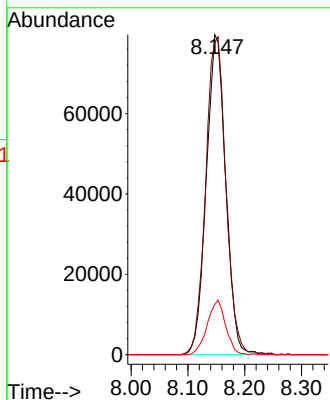
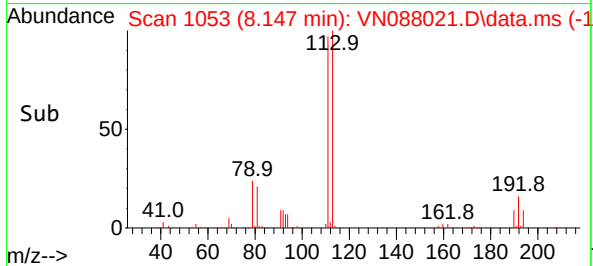
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4



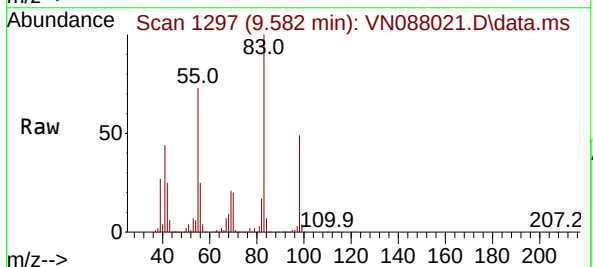
Tgt Ion: 113 Resp: 188989  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.2 123.2  
192 16.1 14.2 21.2

Manual Integrations  
APPROVED

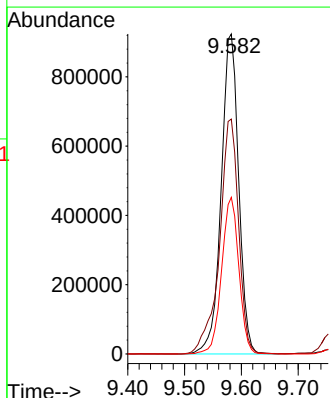
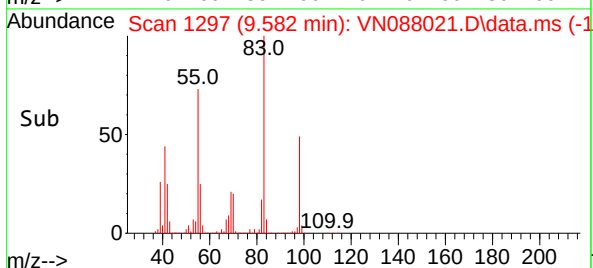
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025

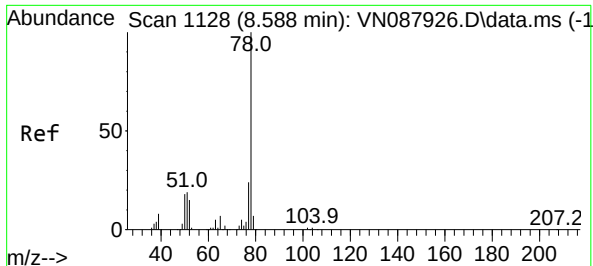


#39  
Methylcyclohexane  
Concen: 355.926 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. 0.006 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17



Tgt Ion: 83 Resp: 1978856  
Ion Ratio Lower Upper  
83 100  
55 73.4 59.9 89.9  
98 48.9 37.4 56.2





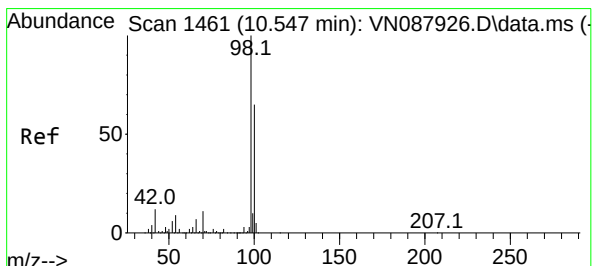
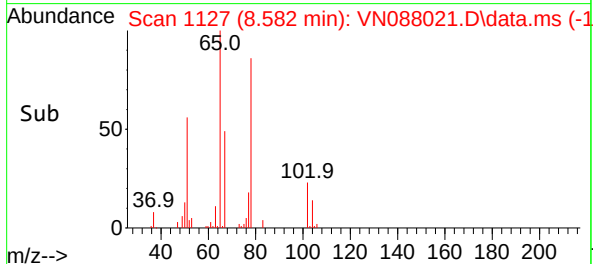
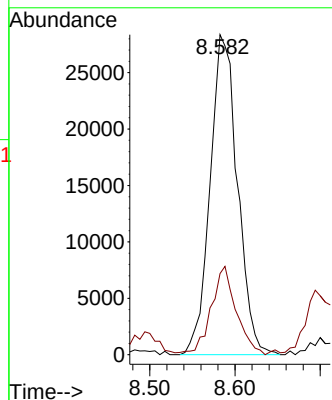
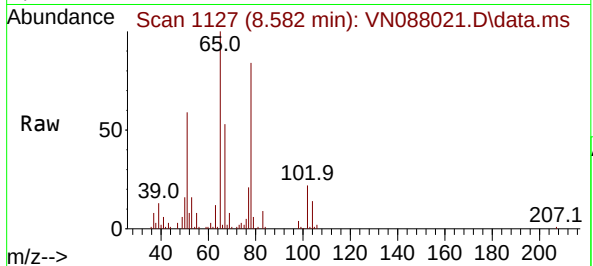
#40  
Benzene  
Concen: 3.796 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4

Tgt Ion: 78 Resp: 6334  
Ion Ratio Lower Upper  
78 100  
77 24.8 19.0 28.6

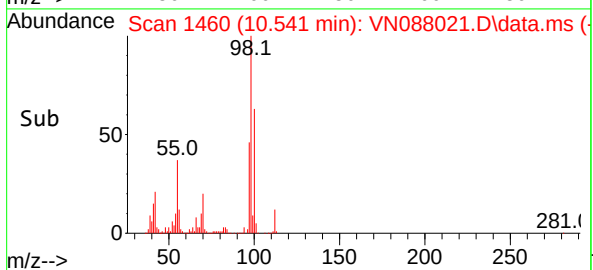
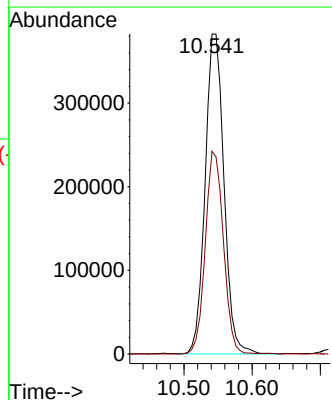
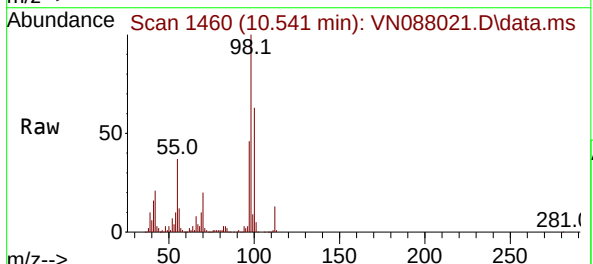
Manual Integrations  
APPROVED

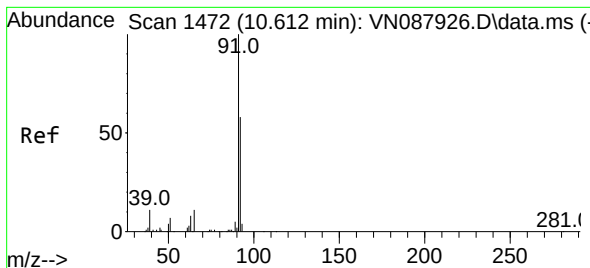
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025



#50  
Toluene-d8  
Concen: 49.880 ug/l  
RT: 10.541 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

Tgt Ion: 98 Resp: 735191  
Ion Ratio Lower Upper  
98 100  
100 61.0 51.7 77.5





#52

Toluene

Concen: 1.524 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VN088021.D

Acq: 03 Oct 2025 14:17

Instrument :

MSVOA\_N

ClientSampleId :

MW4

Tgt Ion: 92 Resp: 1596

Ion Ratio Lower Upper

92 100

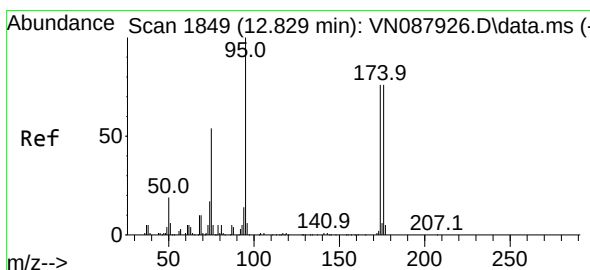
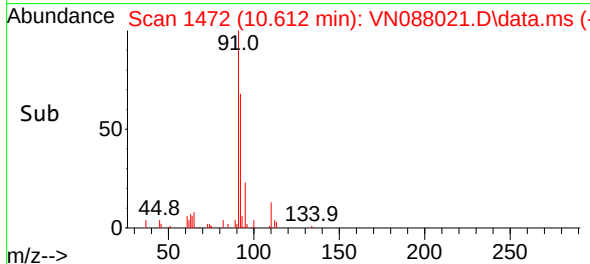
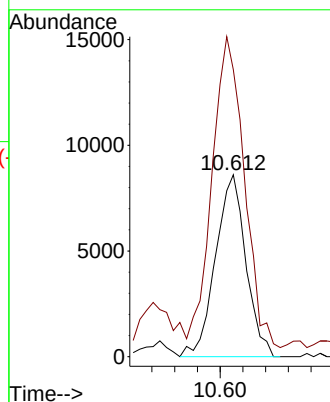
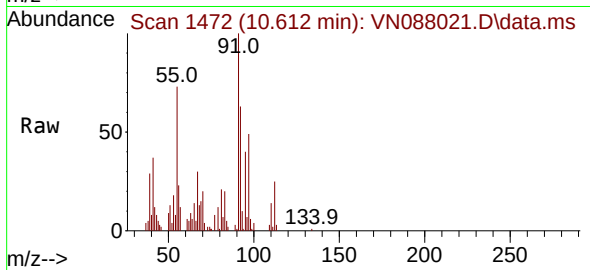
91 188.5 138.2 207.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 10/06/2025

Supervised By :Semsettin Yesilyurt 10/06/2025



#62

4-Bromofluorobenzene

Concen: 52.912 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.006 min

Lab File: VN088021.D

Acq: 03 Oct 2025 14:17

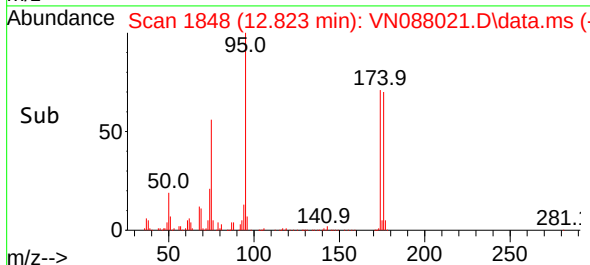
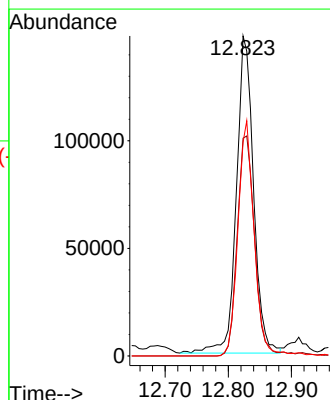
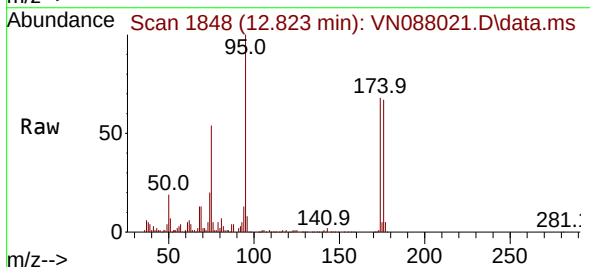
Tgt Ion: 95 Resp: 278766

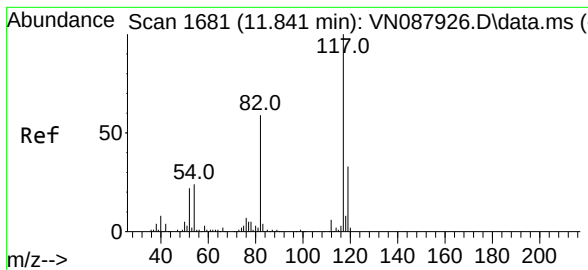
Ion Ratio Lower Upper

95 100

174 70.4 0.0 159.2

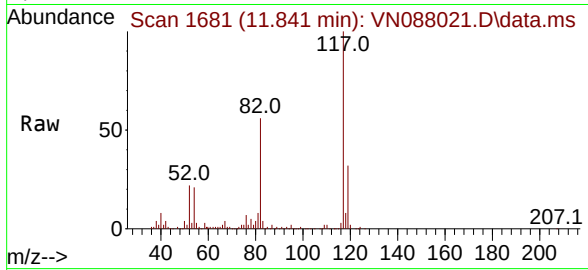
176 69.9 0.0 152.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

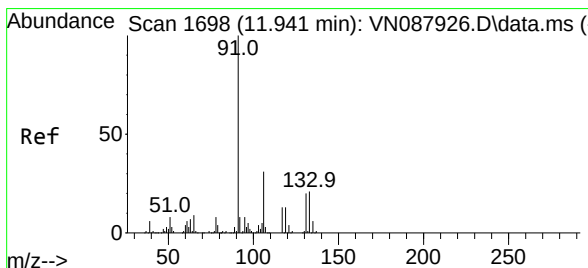
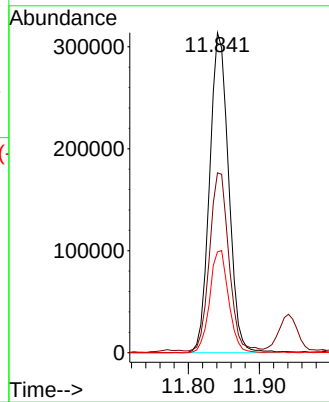
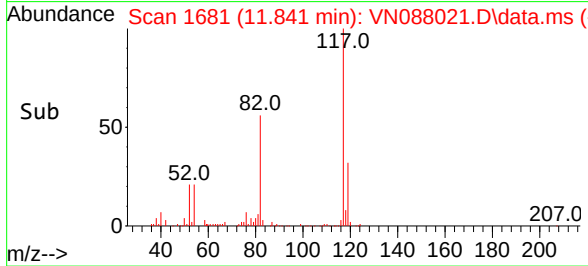
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4



Tgt Ion:117 Resp: 58252  
Ion Ratio Lower Upper  
117 100  
82 55.5 47.0 70.4  
119 31.5 26.1 39.1

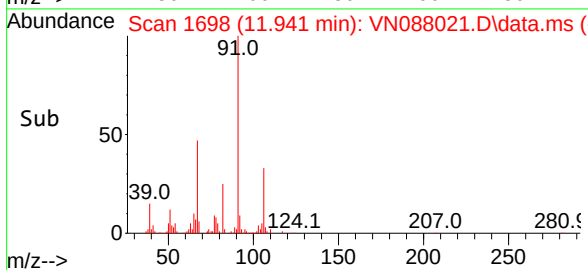
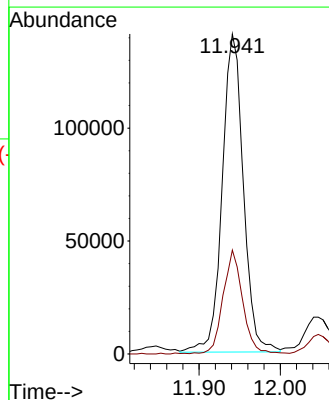
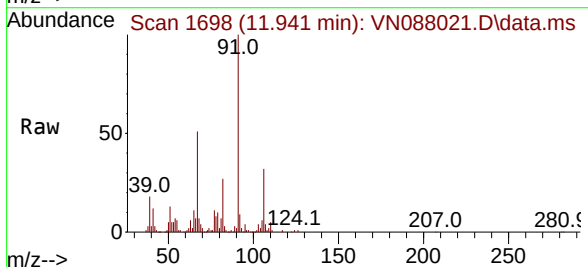
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025

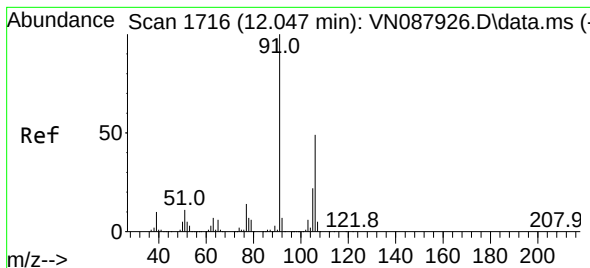


#67  
Ethyl Benzene  
Concen: 12.354 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

Tgt Ion: 91 Resp: 255552  
Ion Ratio Lower Upper  
91 100  
106 32.5 25.2 37.8

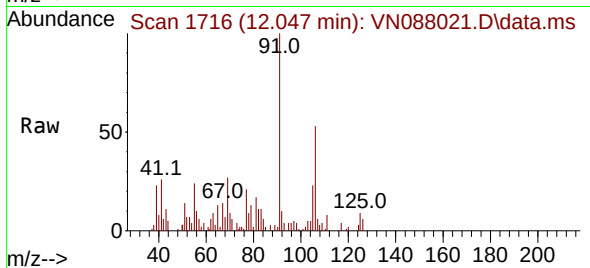






#68  
m/p-Xylenes  
Concen: 2.096 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

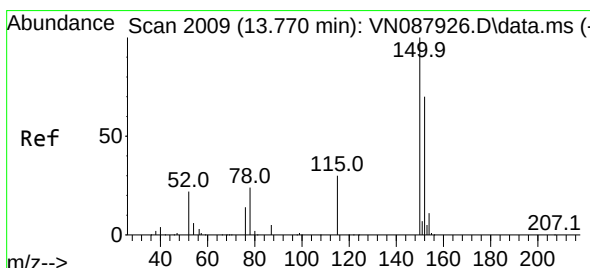
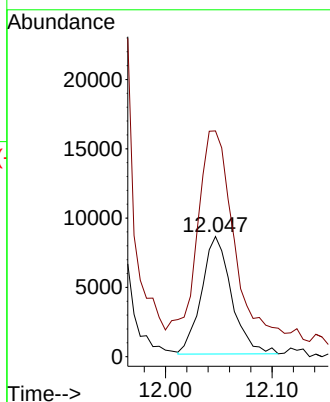
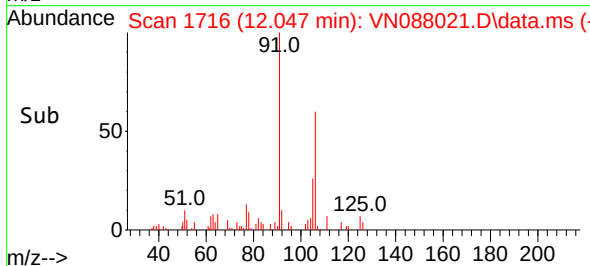
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4



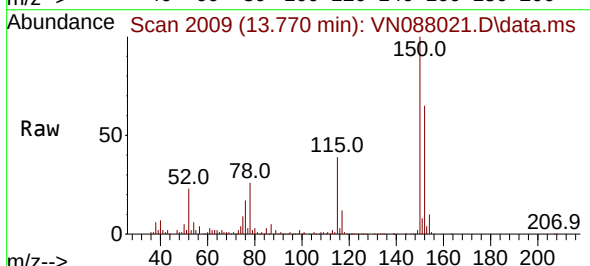
Tgt Ion:106 Resp: 16580  
Ion Ratio Lower Upper  
106 100  
91 226.6 162.9 244.3

Manual Integrations  
APPROVED

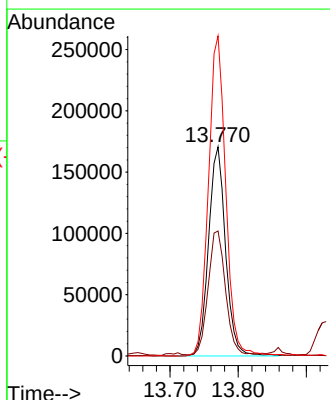
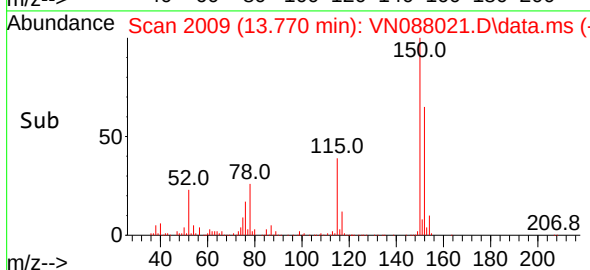
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025

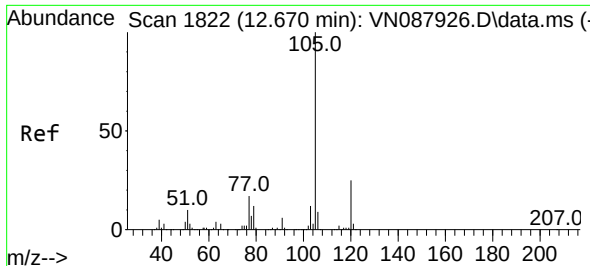


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.770 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17



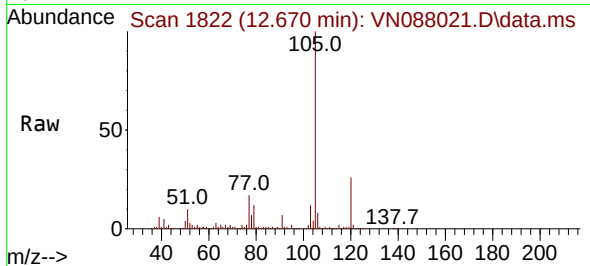
Tgt Ion:152 Resp: 296966  
Ion Ratio Lower Upper  
152 100  
115 60.1 29.9 89.7  
150 155.2 0.0 335.0





#73  
Isopropylbenzene  
Concen: 20.180 ug/l  
RT: 12.670 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

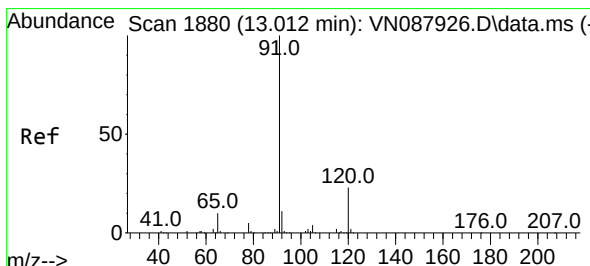
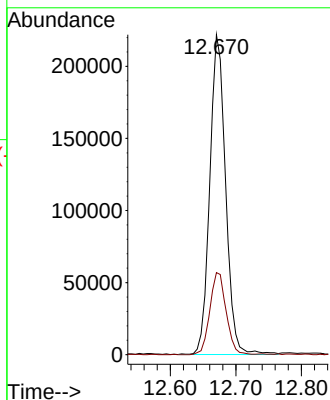
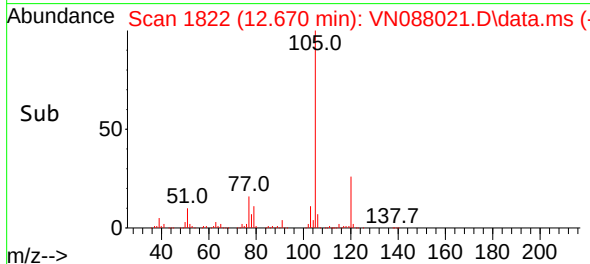
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4



Tgt Ion:105 Resp: 371414  
Ion Ratio Lower Upper  
105 100  
120 26.4 13.1 39.1

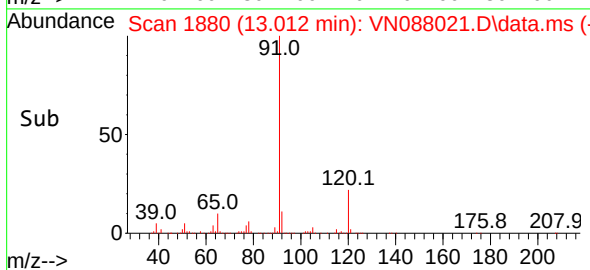
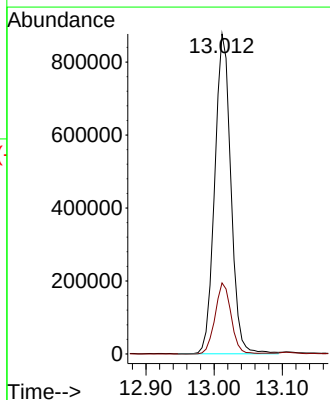
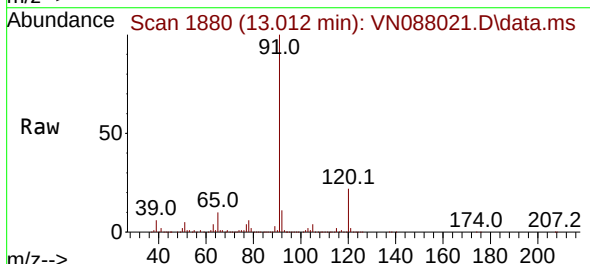
Manual Integrations  
APPROVED

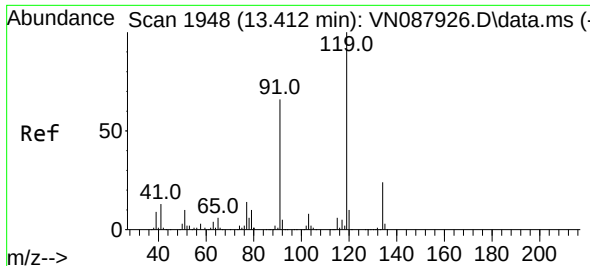
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025



#78  
n-propylbenzene  
Concen: 62.731 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

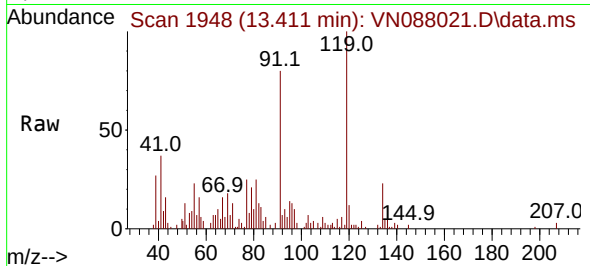
Tgt Ion: 91 Resp: 1443514  
Ion Ratio Lower Upper  
91 100  
120 22.0 11.1 33.1





#83  
tert-Butylbenzene  
Concen: 1.933 ug/l  
RT: 13.411 min Scan# 1948  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

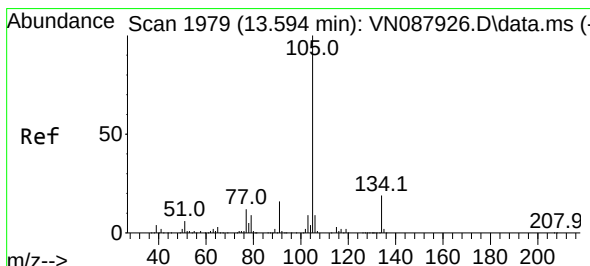
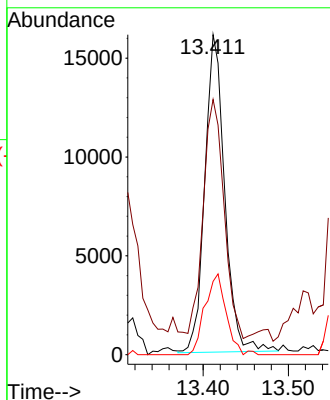
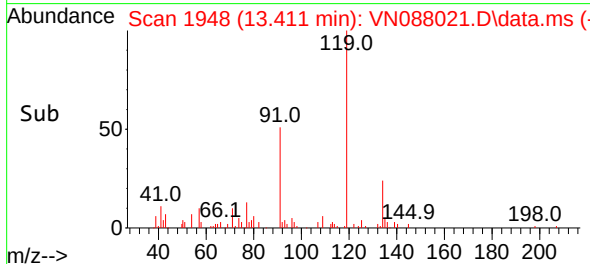
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW4



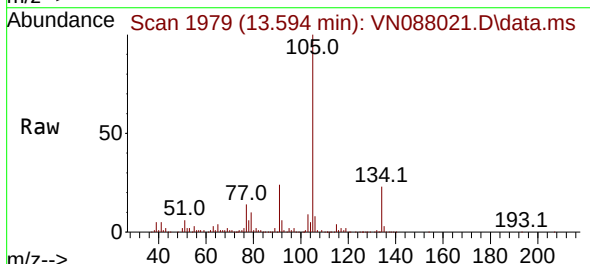
Tgt Ion:119 Resp: 2605  
Ion Ratio Lower Upper  
119 100  
91 76.6 32.1 96.3  
134 27.2 12.3 36.8

Manual Integrations  
APPROVED

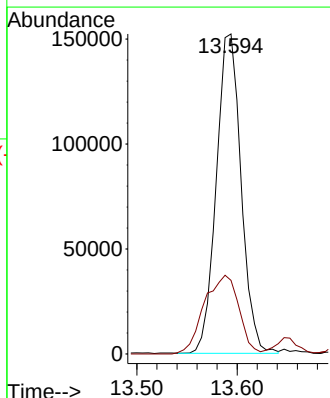
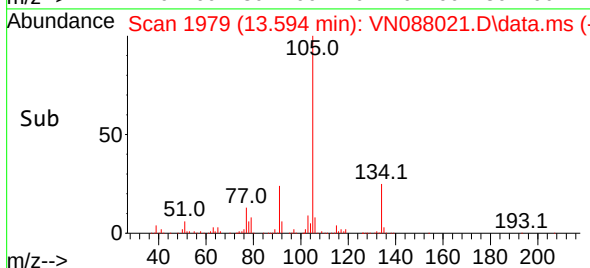
Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025

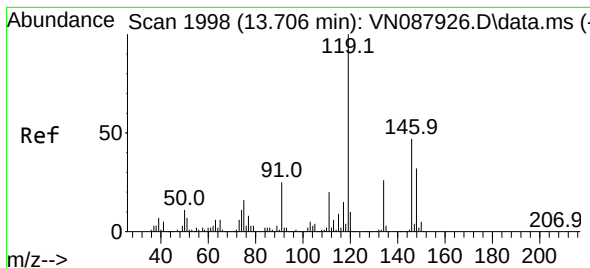


#85  
sec-Butylbenzene  
Concen: 13.215 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17



Tgt Ion:105 Resp: 261070  
Ion Ratio Lower Upper  
105 100  
134 34.5 9.6 28.8#





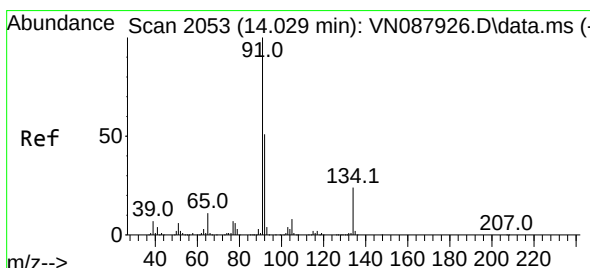
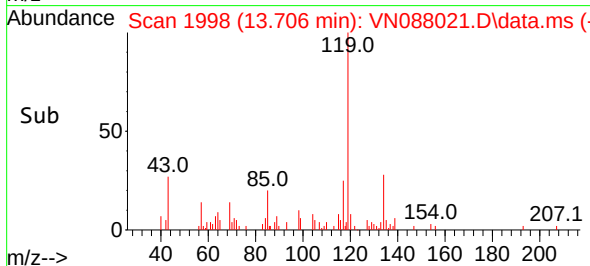
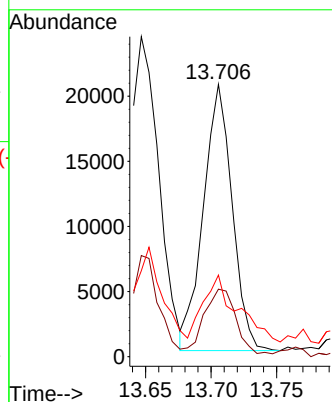
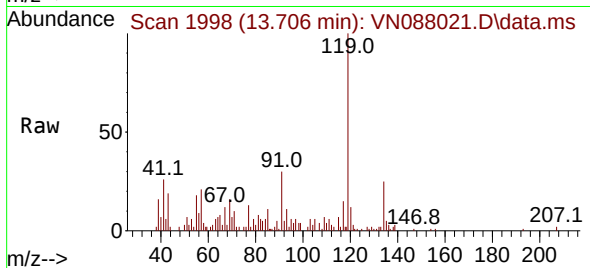
#86  
p-Isopropyltoluene  
Concen: 1.870 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

Instrument : MSVOA\_N  
ClientSampleId : MW4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.8  | 13.1  | 39.3  |
| 91      | 30.3  | 11.9  | 35.5  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 10/06/2025  
Supervised By :Semsettin Yesilyurt 10/06/2025



#89  
n-Butylbenzene  
Concen: 19.362 ug/l m  
RT: 14.029 min Scan# 2053  
Delta R.T. -0.000 min  
Lab File: VN088021.D  
Acq: 03 Oct 2025 14:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 53.0  | 25.9  | 77.8  |
| 134     | 58.0  | 12.6  | 37.8  |

