

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN012924\  
 Data File : VN080798.D  
 Acq On : 29 Jan 2024 18:06  
 Operator : JC\MD  
 Sample : P1258-02DL 20X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 50235DL

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 01/30/2024  
 Supervised By :Mahesh Dadoda 01/30/2024

Quant Time: Jan 30 01:31:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012924W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 29 12:54:23 2024  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.230          | 168  | 98758      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.100          | 114  | 234480     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.870         | 117  | 245848     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.794         | 152  | 95747      | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.577          | 65   | 83862      | 49.085   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 98.180%  |        |          |
| 35) Dibromofluoromethane    | 8.171          | 113  | 68876      | 48.012   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 96.020%  |        |          |
| 50) Toluene-d8              | 10.571         | 98   | 266500     | 47.464   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 94.920%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.853         | 95   | 107841     | 55.117   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 110.240% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 16) Acetone                 | 4.447          | 43   | 8115       | 13.097   | ug/l # | 73       |
| 19) Methyl tert-butyl Ether | 5.789          | 73   | 13027      | 2.667    | ug/l   | 91       |
| 25) 2-Butanone              | 7.482          | 43   | 5167       | 4.390    | ug/l # | 85       |
| 31) Cyclohexane             | 8.259          | 56   | 9300m      | 3.174    | ug/l   |          |
| 37) Ethyl Acetate           | 7.559          | 43   | 20536      | 7.482    | ug/l # | 96       |
| 40) Benzene                 | 8.612          | 78   | 464544     | 59.278   | ug/l   | 95       |
| 52) Toluene                 | 10.629         | 92   | 437100     | 97.278   | ug/l   | 99       |
| 67) Ethyl Benzene           | 11.965         | 91   | 47695      | 4.783    | ug/l   | 97       |
| 68) m/p-Xylenes             | 12.070         | 106  | 51420      | 14.519   | ug/l   | 95       |
| 69) o-Xylene                | 12.400         | 106  | 23804      | 6.764    | ug/l   | 99       |
| 78) n-propylbenzene         | 13.035         | 91   | 3068       | 0.293    | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene  | 13.170         | 105  | 3402       | 0.487    | ug/l   | 69       |
| 84) 1,2,4-Trimethylbenzene  | 13.488         | 105  | 16042      | 2.267    | ug/l   | 95       |
| 95) Naphthalene             | 15.647         | 128  | 4099       | 0.678    | ug/l # | 90       |
| -----                       |                |      |            |          |        |          |

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

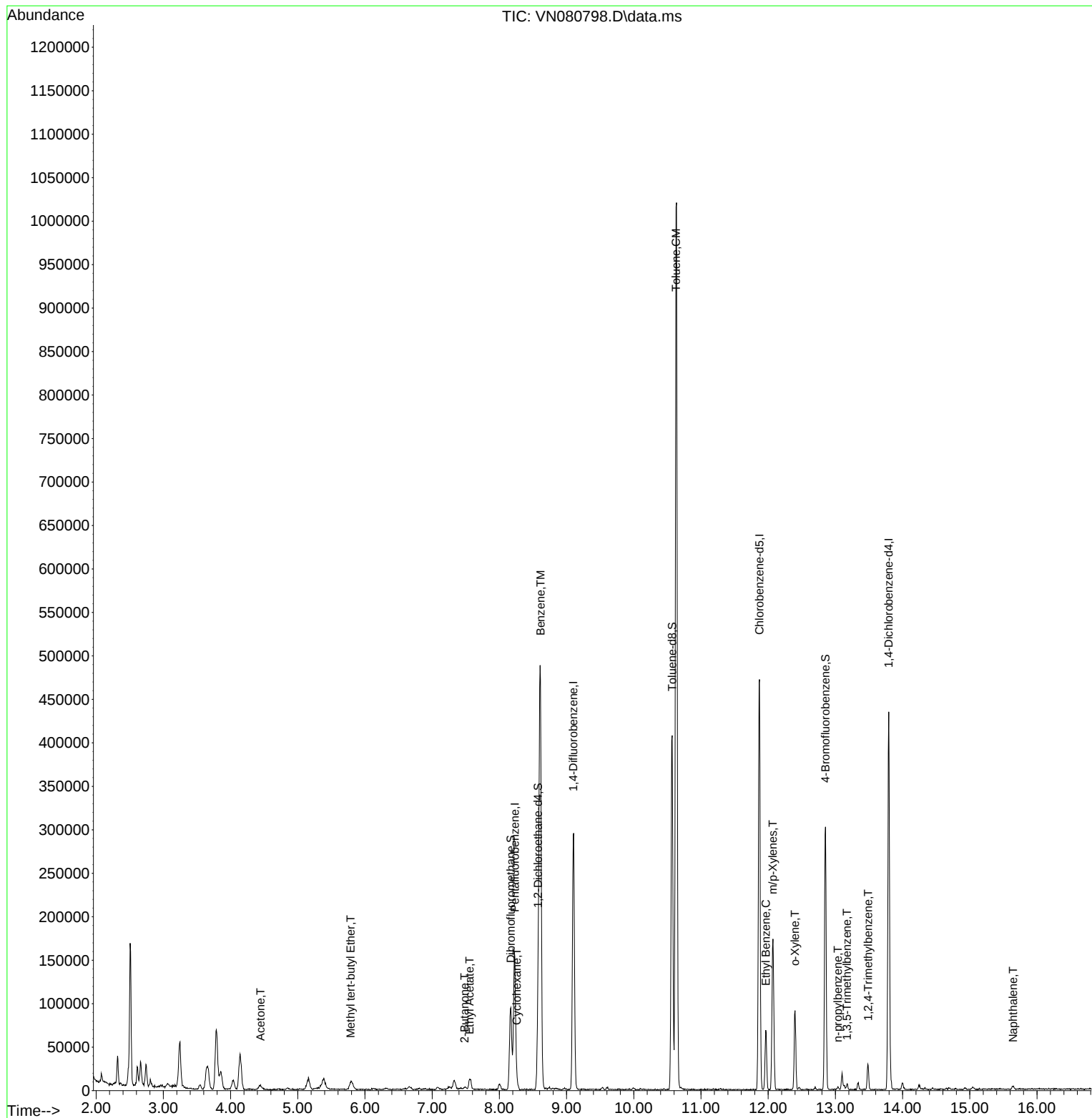
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN012924\  
Data File : VN080798.D  
Acq On : 29 Jan 2024 18:06  
Operator : JC\MD  
Sample : P1258-02DL 20X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 22 Sample Multiplier: 1

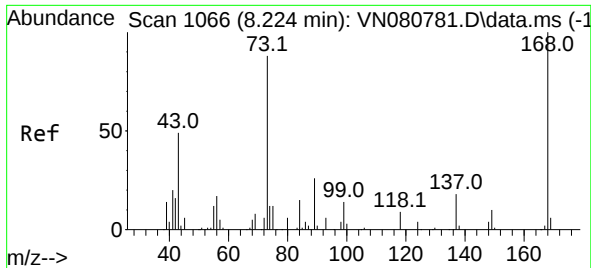
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL

Quant Time: Jan 30 01:31:32 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012924W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 29 12:54:23 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

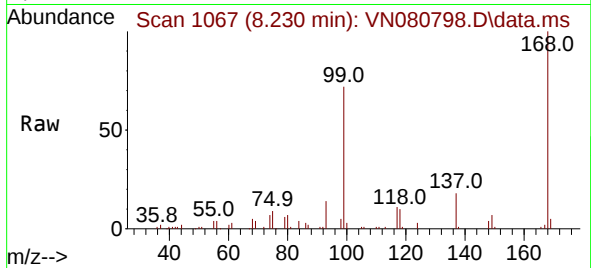
Reviewed By : John Carlone 01/30/2024  
Supervised By : Mahesh Dadoda 01/30/2024





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

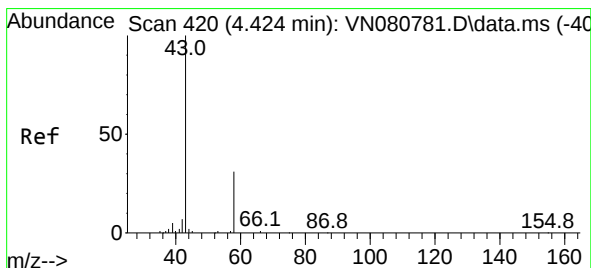
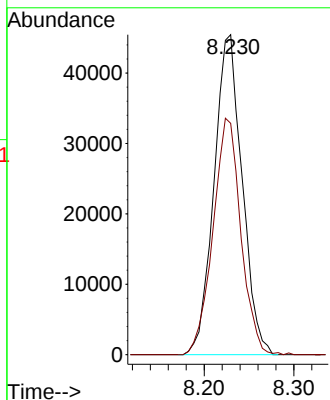
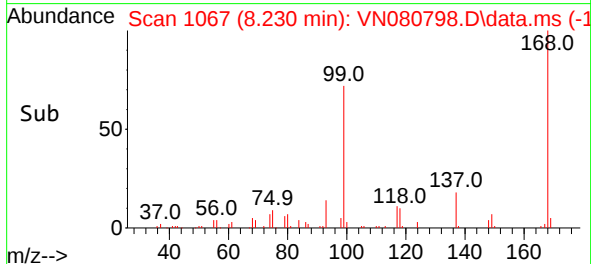
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



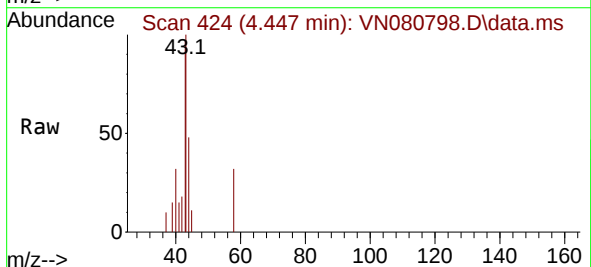
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Ion Ratio Lower Upper  
168 100  
99 72.3 59.9 89.9

Manual Integrations  
APPROVED

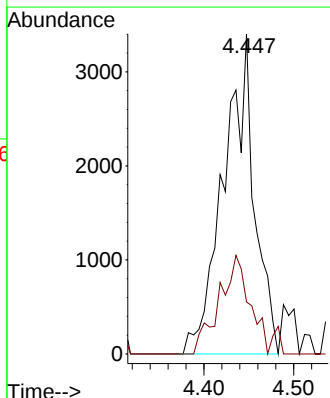
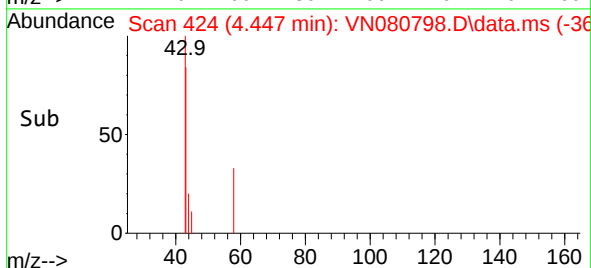
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024

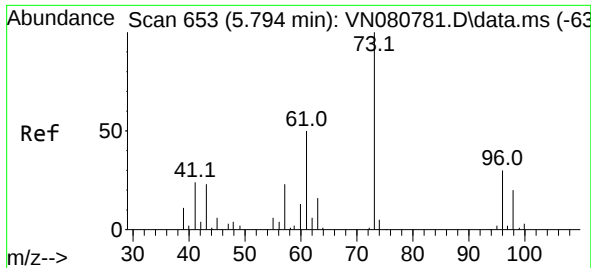


#16  
Acetone  
Concen: 13.097 ug/l  
RT: 4.447 min Scan# 424  
Delta R.T. 0.024 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06



Tgt Ion: 43 Resp: 8115  
Ion Ratio Lower Upper  
43 100  
58 16.3 24.8 37.2#





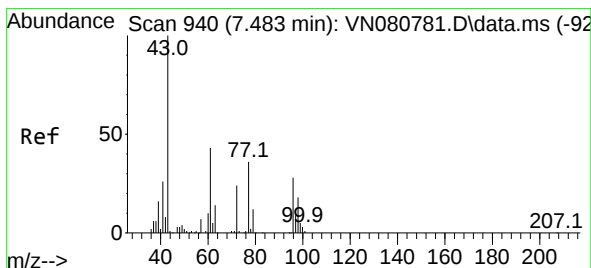
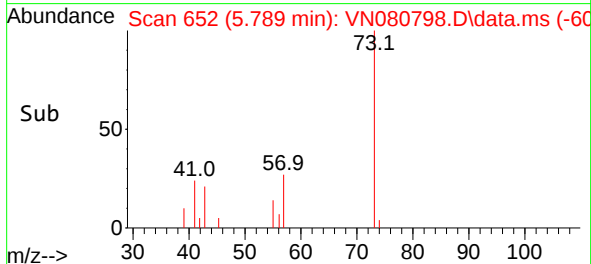
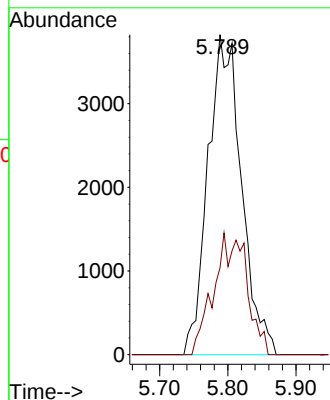
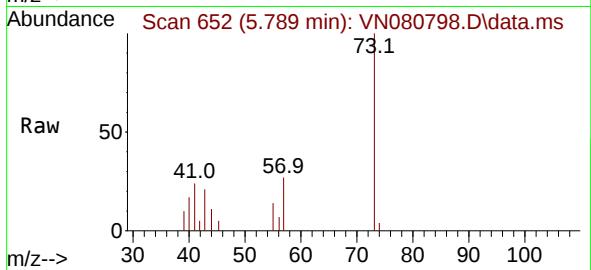
#19  
Methyl tert-butyl Ether  
Concen: 2.667 ug/l  
RT: 5.789 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL

Tgt Ion: 73 Resp: 1302  
Ion Ratio Lower Upper  
73 100  
57 27.1 18.2 27.4

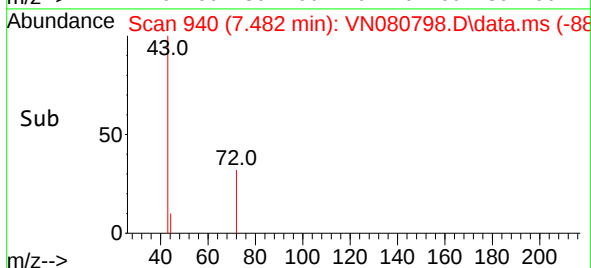
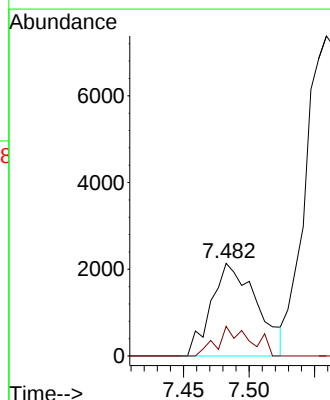
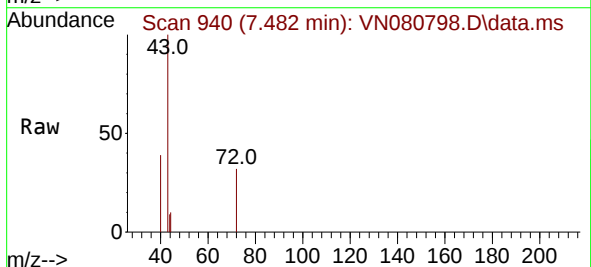
Manual Integrations  
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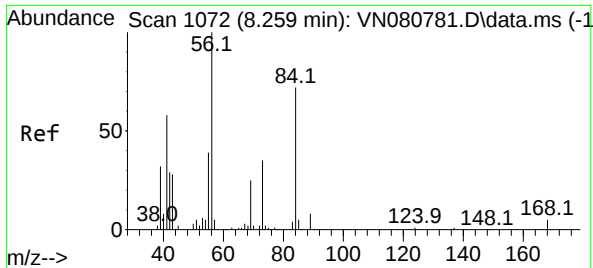
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#25  
2-Butanone  
Concen: 4.390 ug/l  
RT: 7.482 min Scan# 940  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

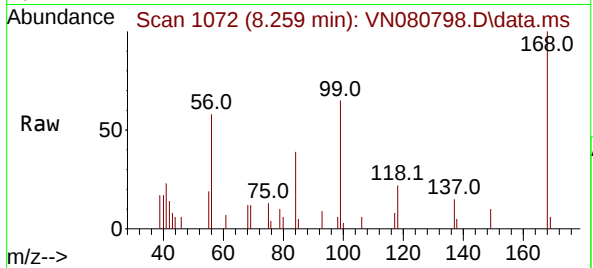
Tgt Ion: 43 Resp: 5167  
Ion Ratio Lower Upper  
43 100  
72 32.0 19.5 29.3#





#31  
Cyclohexane  
Concen: 3.174 ug/l m  
RT: 8.259 min Scan# 1072  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

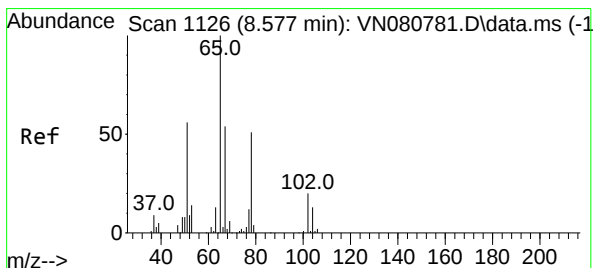
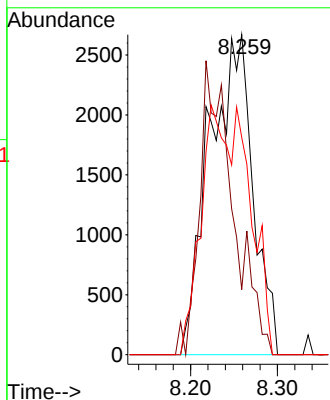
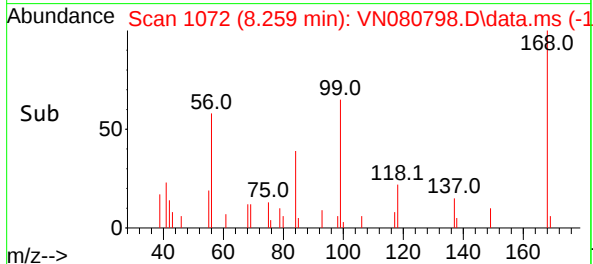
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



Tgt Ion: 56 Resp: 9300  
Ion Ratio Lower Upper  
56 100  
69 20.4 20.1 30.1  
84 67.9 56.9 85.3

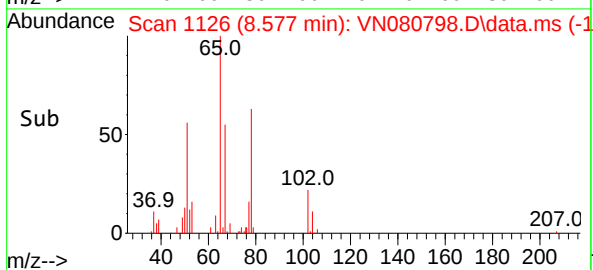
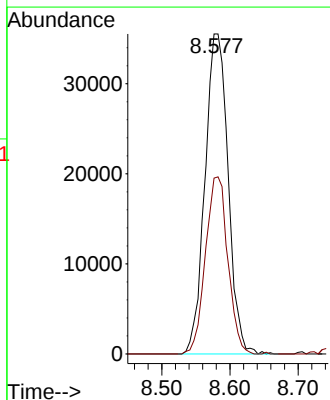
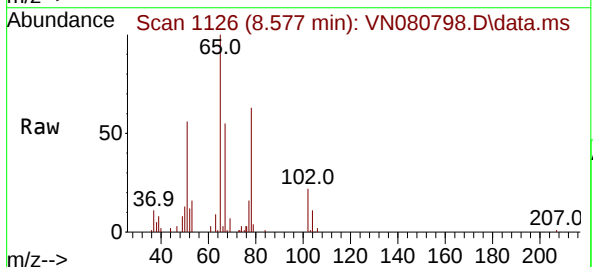
Manual Integrations  
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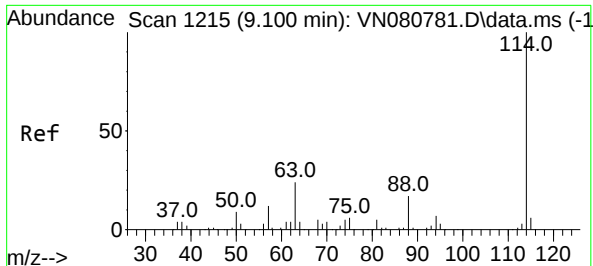
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#33  
1,2-Dichloroethane-d4  
Concen: 49.085 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

Tgt Ion: 65 Resp: 83862  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080798.D

Acq: 29 Jan 2024 18:06

Instrument :

MSVOA\_N

ClientSampleId :

50235DL

Tgt Ion:114 Resp: 234480

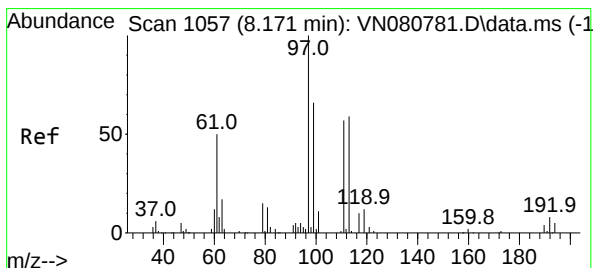
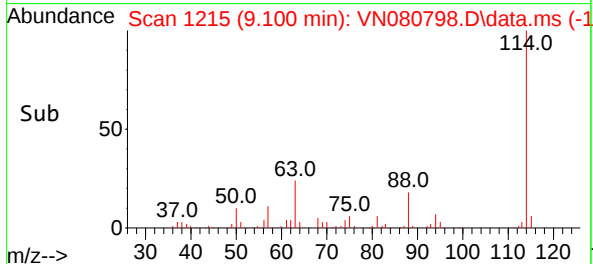
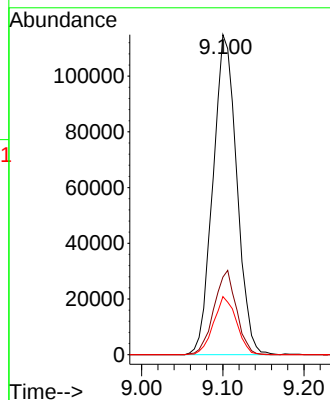
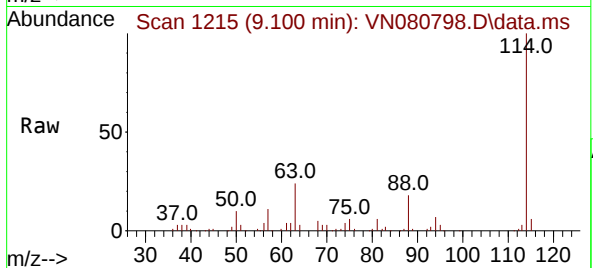
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.2  | 0.0   | 48.0  |
| 88  | 18.1  | 0.0   | 34.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/30/2024

Supervised By :Mahesh Dadoda 01/30/2024



#35

Dibromofluoromethane

Concen: 48.012 ug/l

RT: 8.171 min Scan# 1057

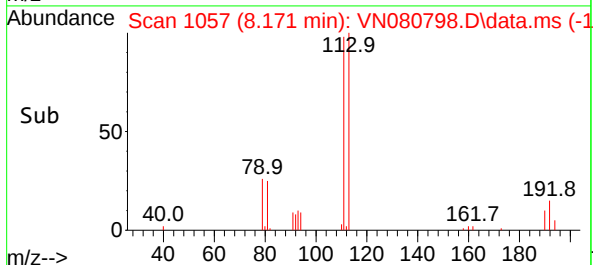
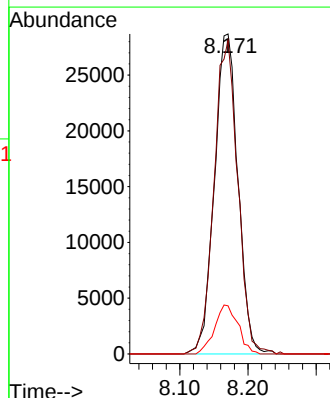
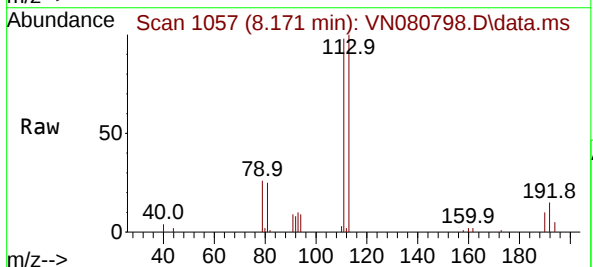
Delta R.T. -0.000 min

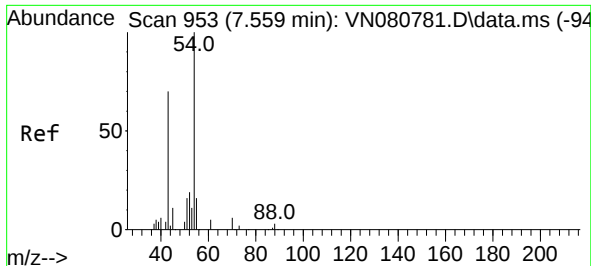
Lab File: VN080798.D

Acq: 29 Jan 2024 18:06

Tgt Ion:113 Resp: 68876

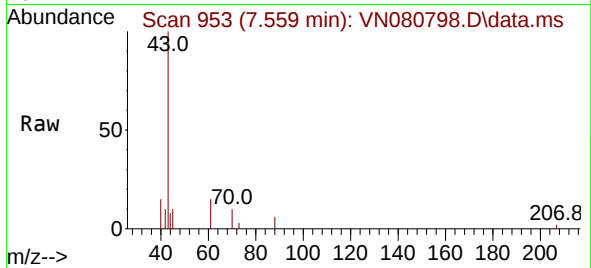
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 98.6  | 82.2  | 123.4 |
| 192 | 15.3  | 12.5  | 18.7  |





#37  
Ethyl Acetate  
Concen: 7.482 ug/l  
RT: 7.559 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

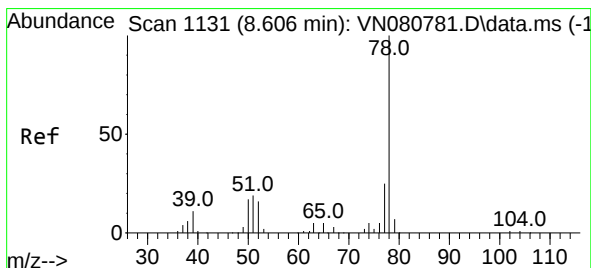
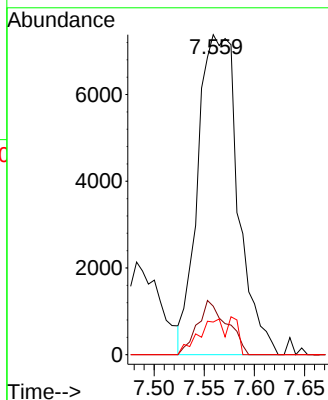
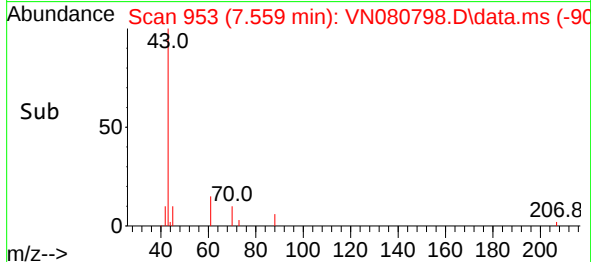
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



Tgt Ion: 43 Resp: 20530  
Ion Ratio Lower Upper  
43 100  
61 12.5 10.6 15.8  
70 7.0 8.0 12.0

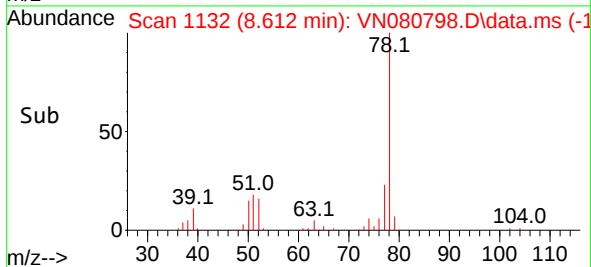
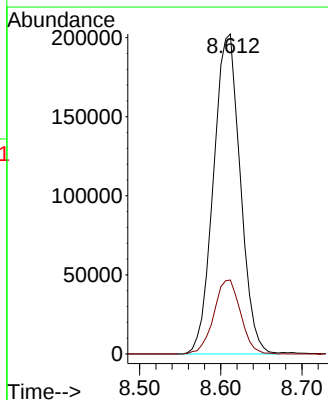
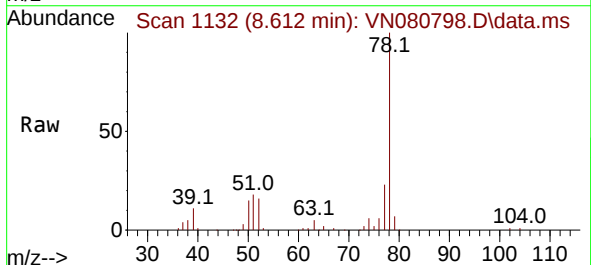
Manual Integrations  
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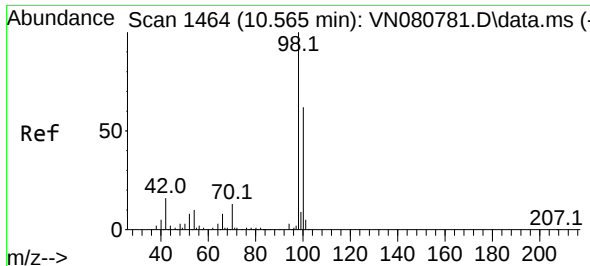
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#40  
Benzene  
Concen: 59.278 ug/l  
RT: 8.612 min Scan# 1132  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

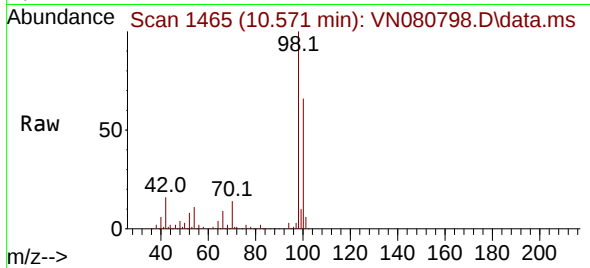
Tgt Ion: 78 Resp: 464544  
Ion Ratio Lower Upper  
78 100  
77 23.1 20.4 30.6





#50  
Toluene-d8  
Concen: 47.464 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

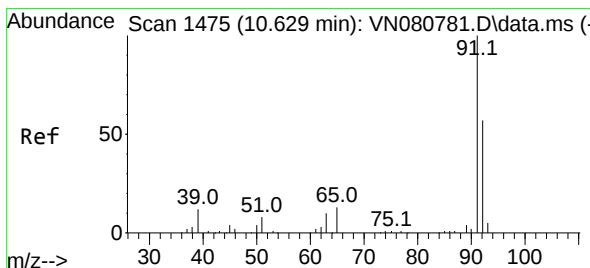
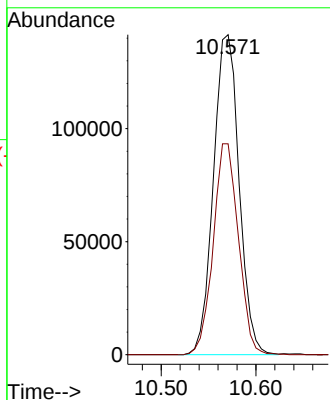
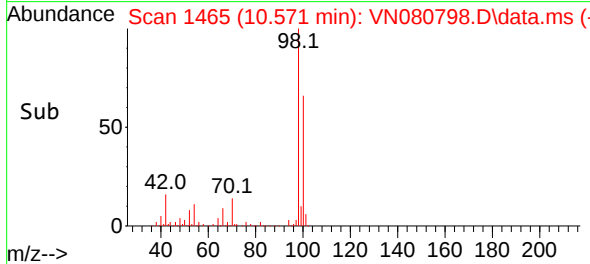
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



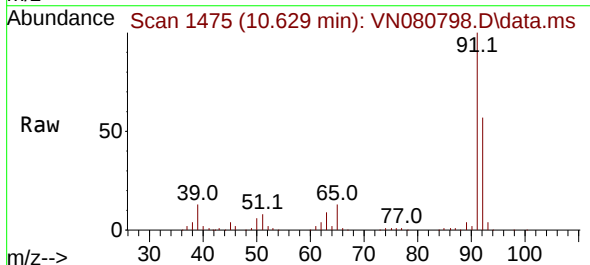
Tgt Ion: 98 Resp: 266500  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.4 77.0

Manual Integrations  
APPROVED

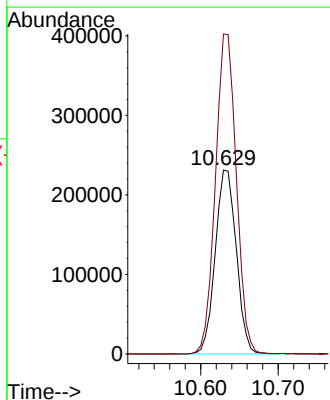
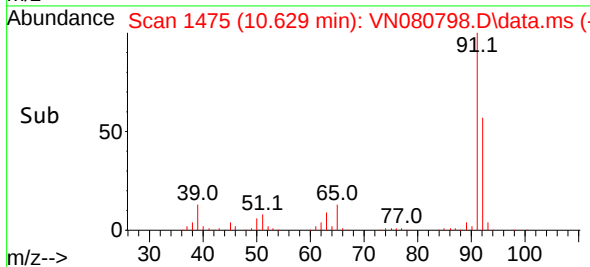
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024

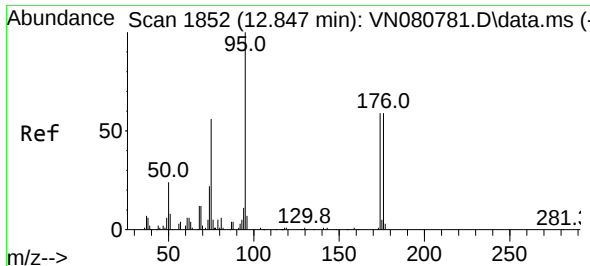


#52  
Toluene  
Concen: 97.278 ug/l  
RT: 10.629 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06



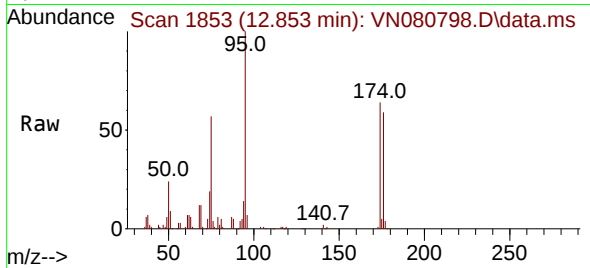
Tgt Ion: 92 Resp: 437100  
Ion Ratio Lower Upper  
92 100  
91 173.1 139.4 209.0





#62  
4-Bromofluorobenzene  
Concen: 55.117 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

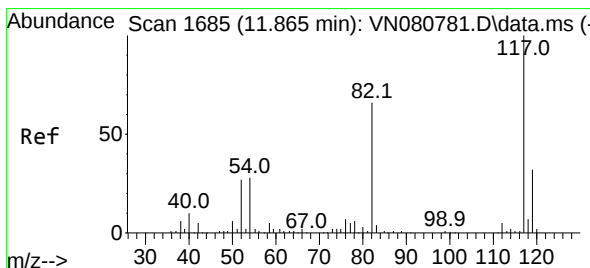
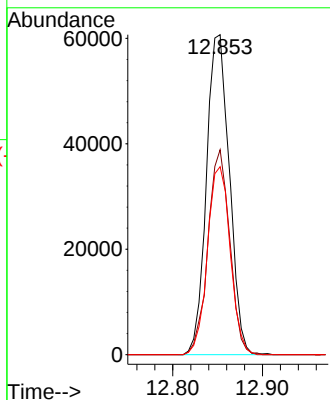
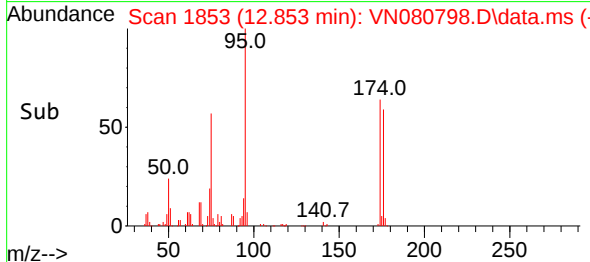
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



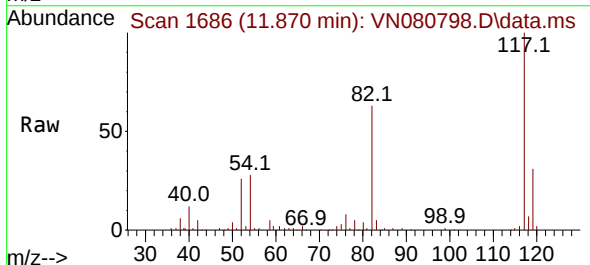
Tgt Ion: 95 Resp: 10784  
Ion Ratio Lower Upper  
95 100  
174 60.8 0.0 120.4  
176 58.3 0.0 121.0

Manual Integrations  
APPROVED

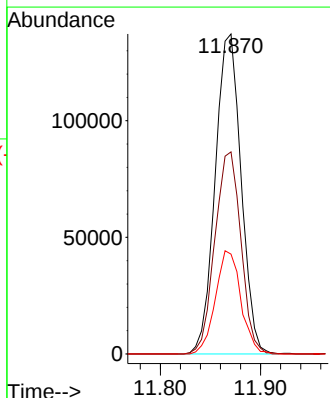
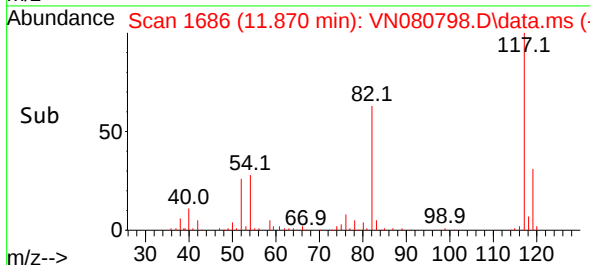
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024

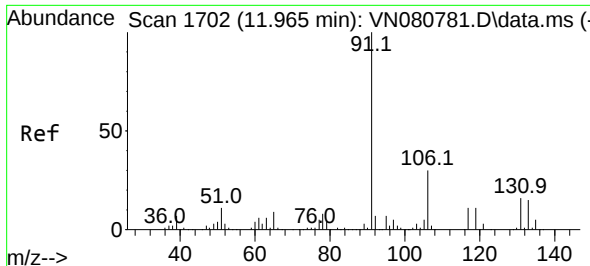


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06



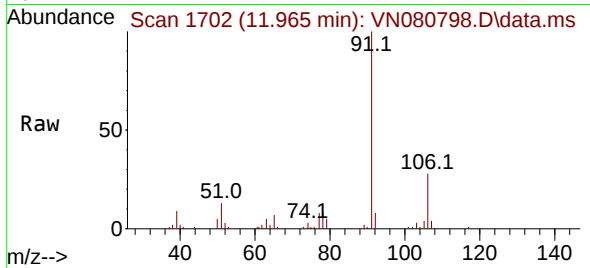
Tgt Ion:117 Resp: 245848  
Ion Ratio Lower Upper  
117 100  
82 63.2 52.7 79.1  
119 31.2 25.3 37.9





#67  
Ethyl Benzene  
Concen: 4.783 ug/l  
RT: 11.965 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

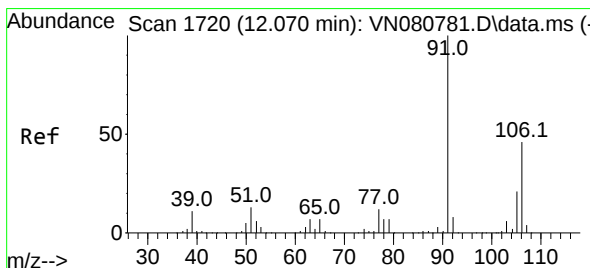
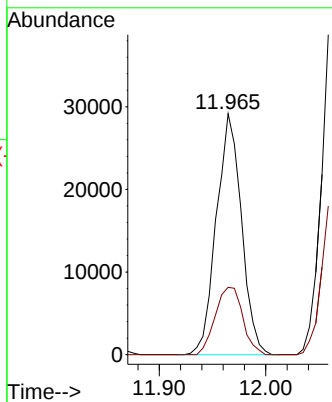
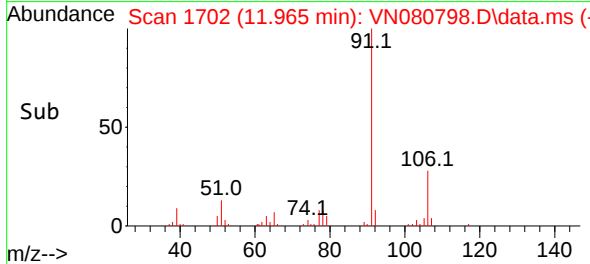
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



Tgt Ion: 91 Resp: 47698  
Ion Ratio Lower Upper  
91 100  
106 28.0 23.8 35.6

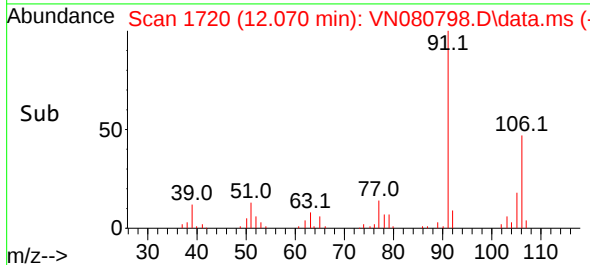
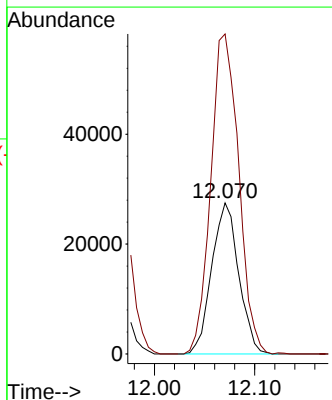
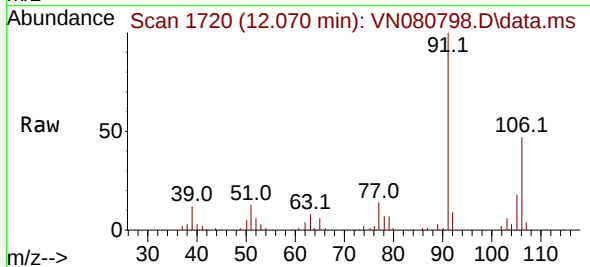
Manual Integrations  
APPROVED

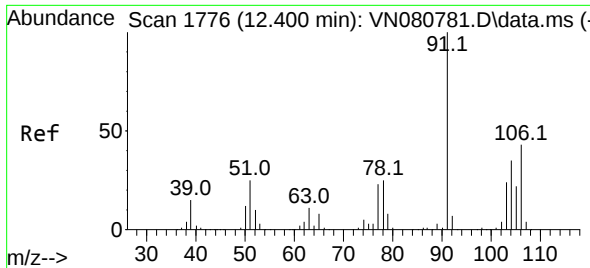
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#68  
m/p-Xylenes  
Concen: 14.519 ug/l  
RT: 12.070 min Scan# 1720  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

Tgt Ion:106 Resp: 51420  
Ion Ratio Lower Upper  
106 100  
91 219.3 169.0 253.6





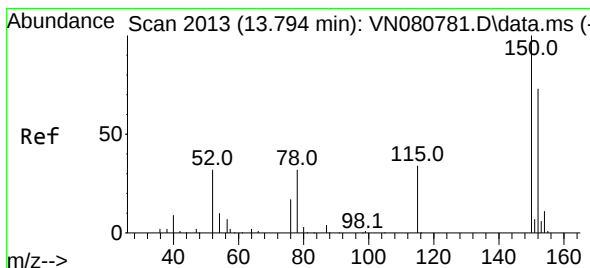
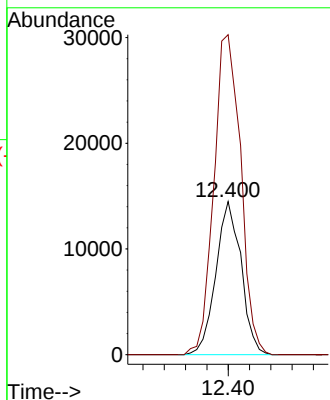
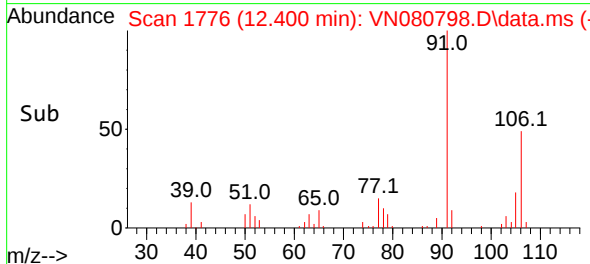
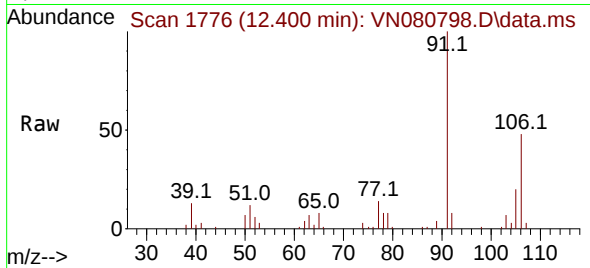
#69  
o-Xylene  
Concen: 6.764 ug/l  
RT: 12.400 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL

Tgt Ion:106 Resp: 23804  
Ion Ratio Lower Upper  
106 100  
91 221.8 112.1 336.3

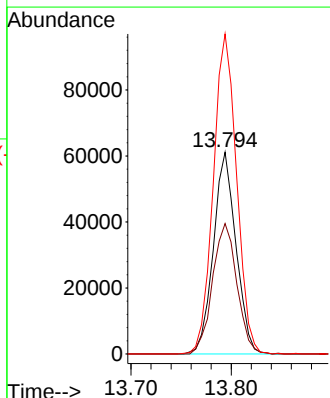
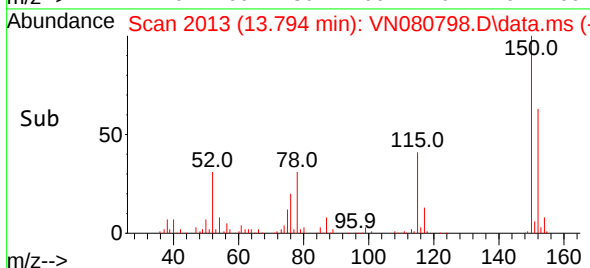
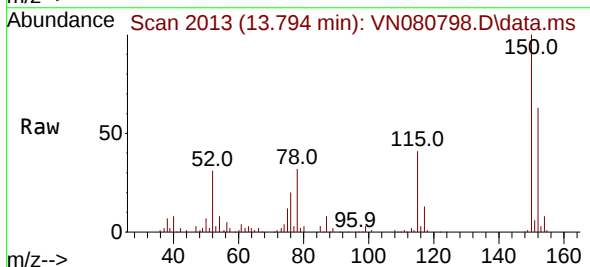
Manual Integrations  
APPROVED

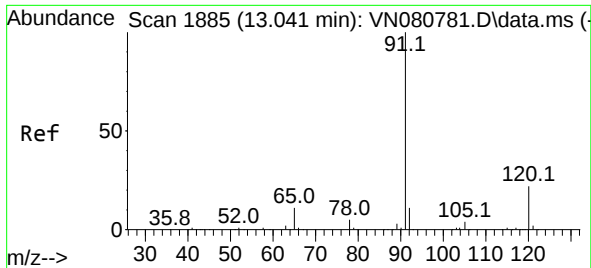
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

Tgt Ion:152 Resp: 95747  
Ion Ratio Lower Upper  
152 100  
115 69.7 32.3 96.8  
150 163.3 0.0 339.8





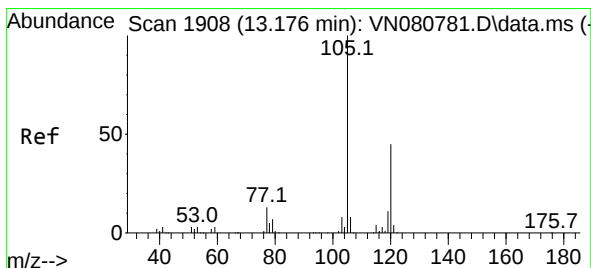
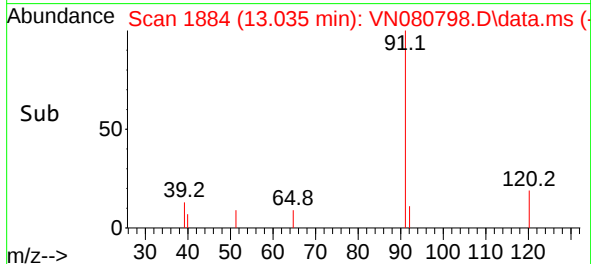
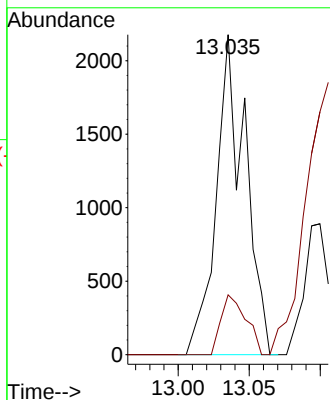
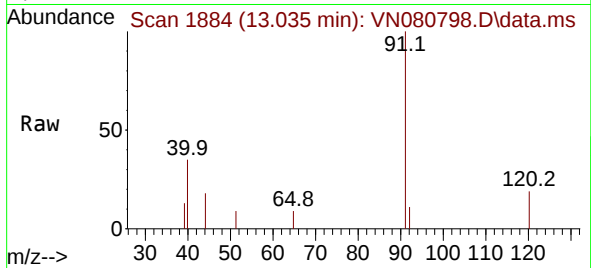
#78  
n-propylbenzene  
Concen: 0.293 ug/l  
RT: 13.035 min Scan# 1884  
Delta R.T. -0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL

Tgt Ion: 91 Resp: 3068  
Ion Ratio Lower Upper  
91 100  
120 16.2 10.3 30.9

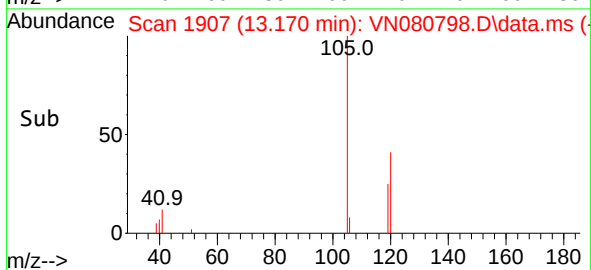
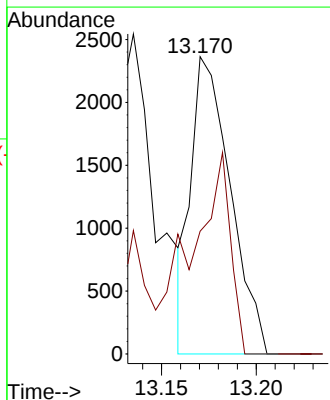
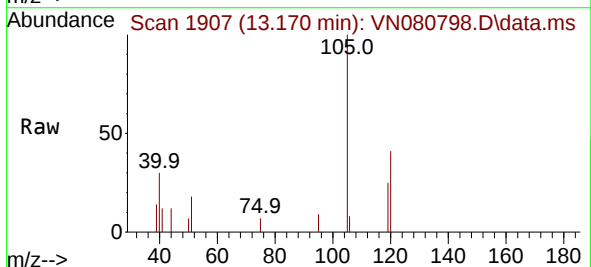
Manual Integrations  
APPROVED

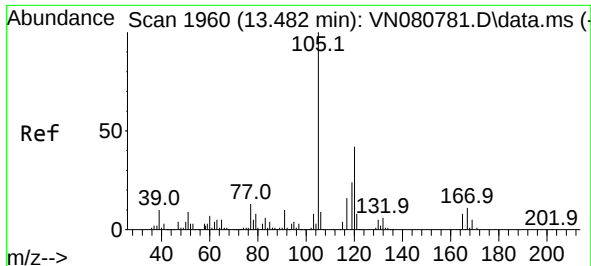
Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#80  
1,3,5-Trimethylbenzene  
Concen: 0.487 ug/l  
RT: 13.170 min Scan# 1907  
Delta R.T. -0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

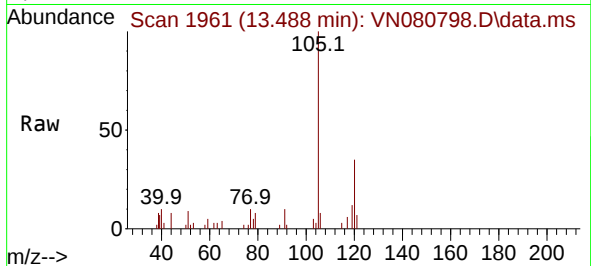
Tgt Ion:105 Resp: 3402  
Ion Ratio Lower Upper  
105 100  
120 66.8 23.0 69.0





#84  
1,2,4-Trimethylbenzene  
Concen: 2.267 ug/l  
RT: 13.488 min Scan# 1960  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06

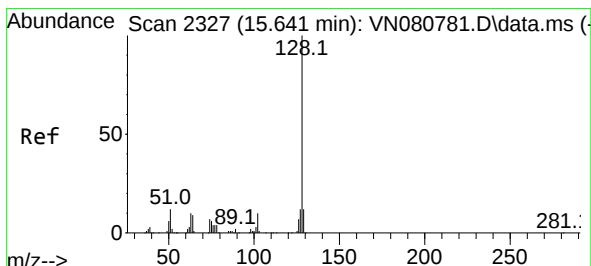
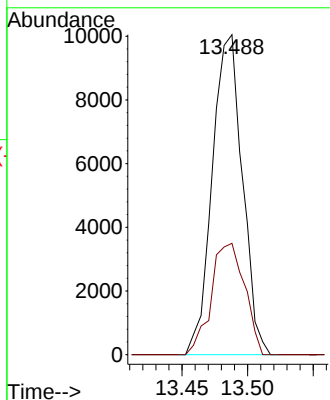
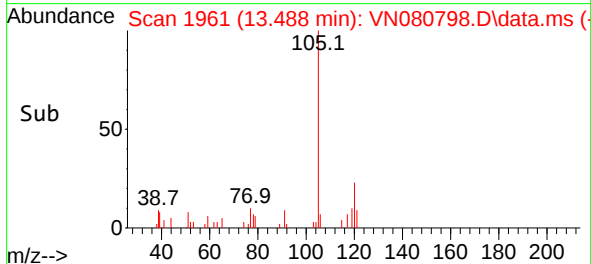
Instrument :  
MSVOA\_N  
ClientSampleId :  
50235DL



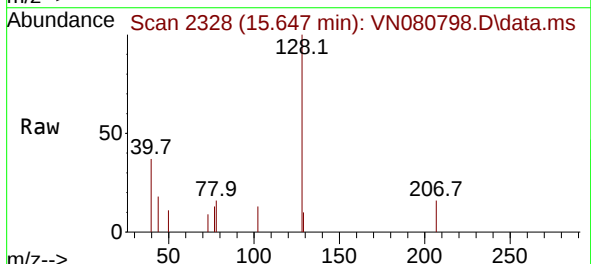
Tgt Ion:105 Resp: 1604  
Ion Ratio Lower Upper  
105 100  
120 38.7 20.9 62.7

Manual Integrations  
APPROVED

Reviewed By :John Carlone 01/30/2024  
Supervised By :Mahesh Dadoda 01/30/2024



#95  
Naphthalene  
Concen: 0.678 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. 0.006 min  
Lab File: VN080798.D  
Acq: 29 Jan 2024 18:06



Tgt Ion:128 Resp: 4099  
Ion Ratio Lower Upper  
128 100  
127 8.9 10.0 15.0#  
129 7.1 8.7 13.1#

