

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042325\  
 Data File : VN086385.D  
 Acq On : 23 Apr 2025 16:24  
 Operator : JC\MD  
 Sample : Q1833-01 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EFF-WASTE-WATER

Quant Time: Apr 24 05:01:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 24 04:42:24 2025  
 Response via : Initial Calibration

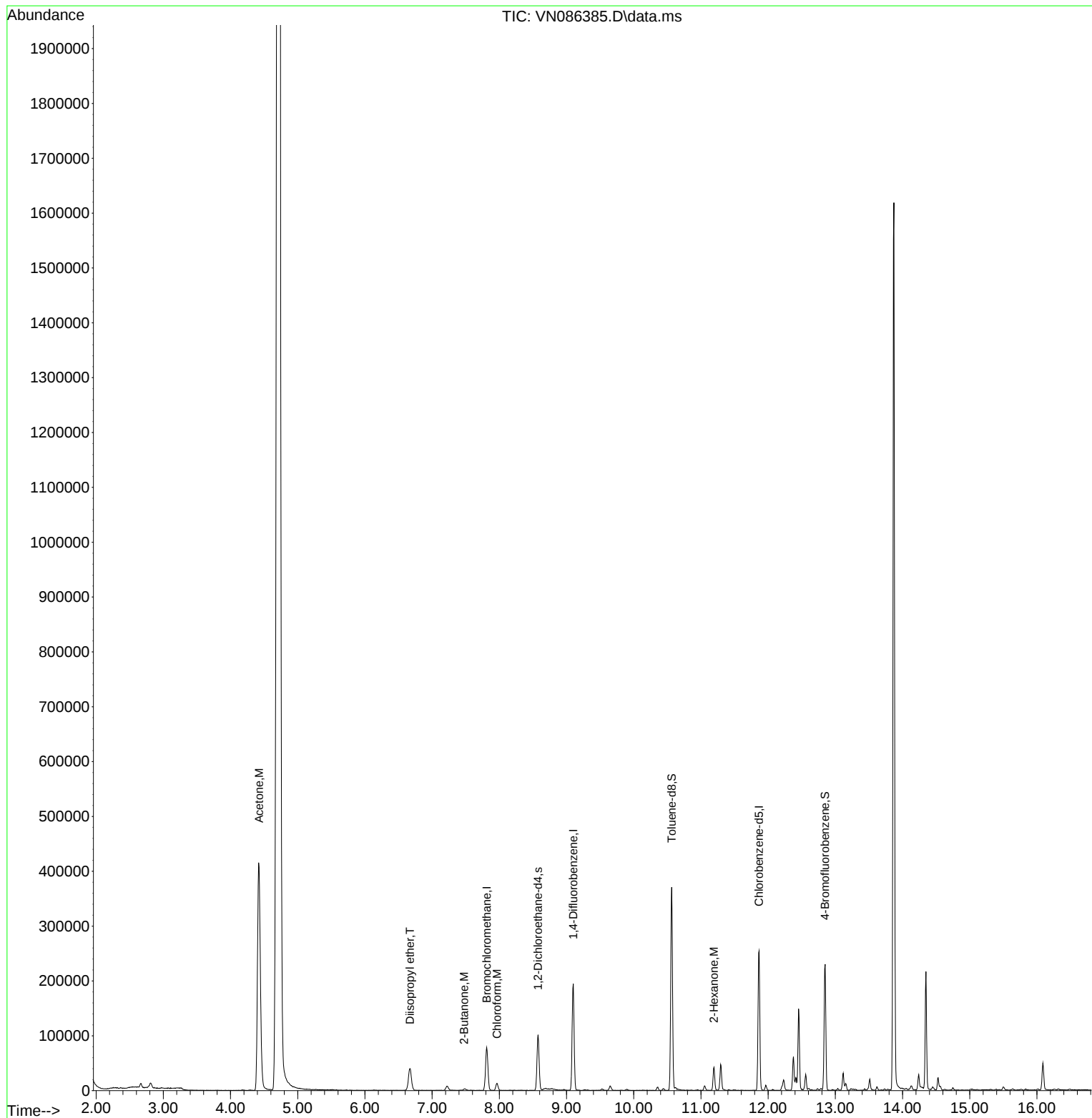
| Compound                    | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                       |                |      |                     |         |        |          |
| Internal Standards          |                |      |                     |         |        |          |
| 1) Bromochloromethane       | 7.812          | 128  | 27985               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100          | 114  | 171526              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865         | 117  | 153120              | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.577          | 65   | 83028               | 30.773  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = 102.567% |         |        |          |
| 60) 4-Bromofluorobenzene    | 12.847         | 95   | 85059               | 28.264  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = 94.200%  |         |        |          |
| 63) Toluene-d8              | 10.565         | 98   | 256697              | 30.473  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = 101.567% |         |        |          |
| Target Compounds            |                |      |                     |         |        |          |
|                             |                |      |                     |         | Qvalue |          |
| 15) Acetone                 | 4.424          | 58   | 247844              | 873.327 | ug/l   | 95       |
| 20) Diisopropyl ether       | 6.671          | 45   | 51372               | 6.921   | ug/l   | 97       |
| 25) Chloroform              | 7.965          | 83   | 12701               | 3.089   | ug/l   | 96       |
| 30) 2-Butanone              | 7.477          | 43   | 4807                | 3.275   | ug/l # | 90       |
| 59) 2-Hexanone              | 11.194         | 43   | 28516               | 13.059  | ug/l   | 99       |
| -----                       |                |      |                     |         |        |          |

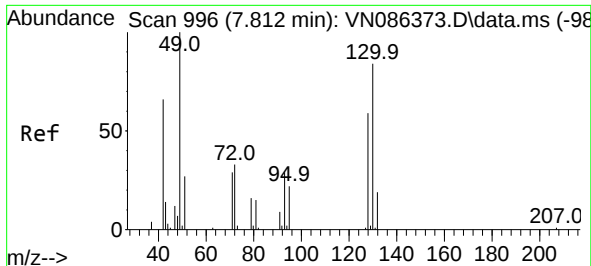
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042325\  
Data File : VN086385.D  
Acq On : 23 Apr 2025 16:24  
Operator : JC\MD  
Sample : Q1833-01 5X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
EFF-WASTE-WATER

Quant Time: Apr 24 05:01:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042325W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Apr 24 04:42:24 2025  
Response via : Initial Calibration

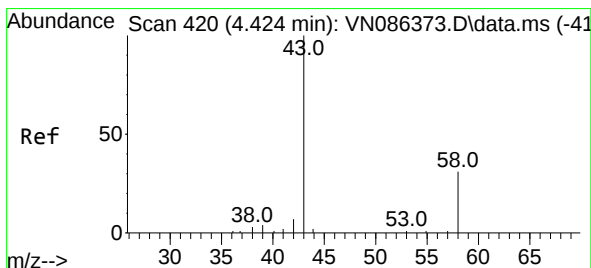
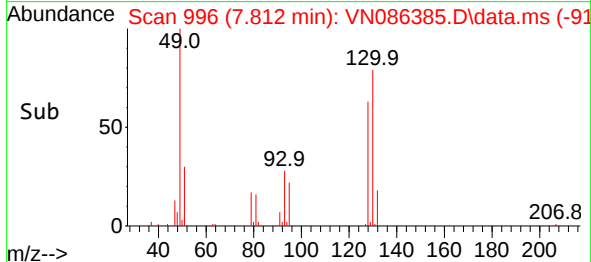
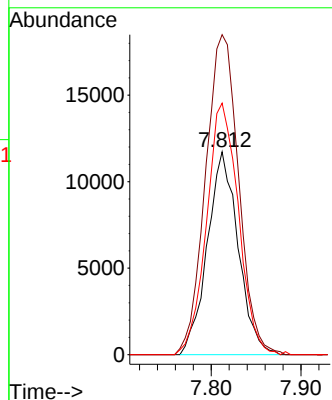
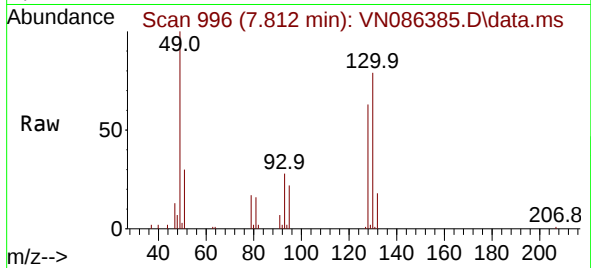




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

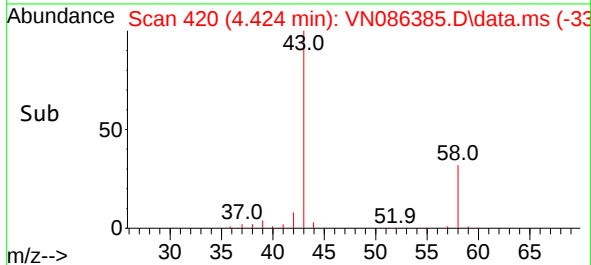
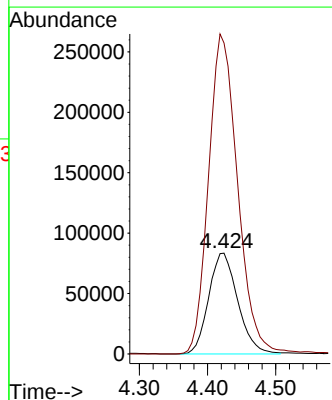
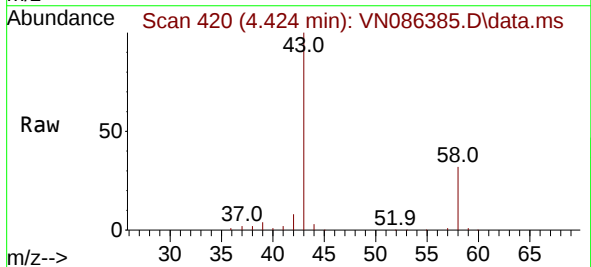
Instrument :  
MSVOA\_N  
ClientSampleId :  
EFF-WASTE-WATER

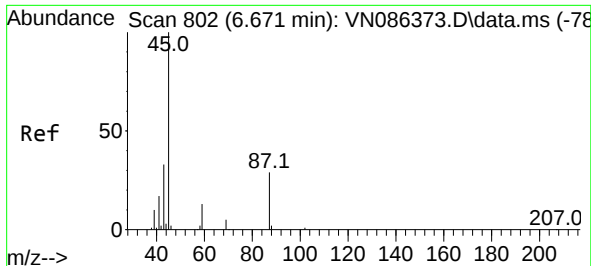
Tgt Ion:128 Resp: 27985  
Ion Ratio Lower Upper  
128 100  
49 169.5 0.0 433.8  
130 128.2 0.0 325.0



#15  
Acetone  
Concen: 873.327 ug/l  
RT: 4.424 min Scan# 420  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

Tgt Ion: 58 Resp: 247844  
Ion Ratio Lower Upper  
58 100  
43 308.1 255.1 382.7

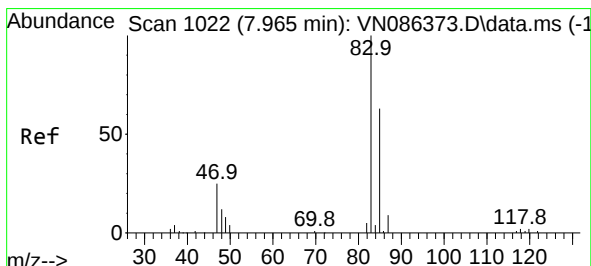
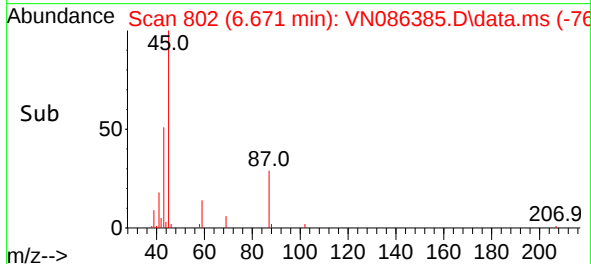
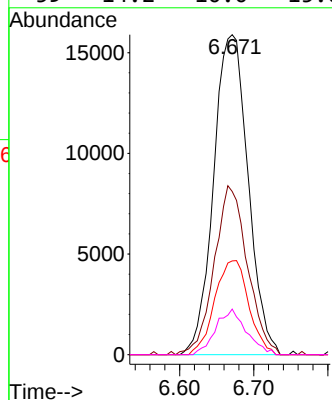
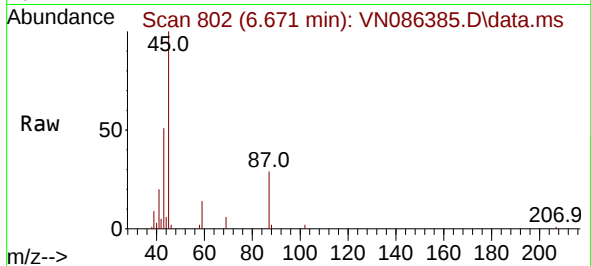




#20  
Diisopropyl ether  
Concen: 6.921 ug/l  
RT: 6.671 min Scan# 802  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

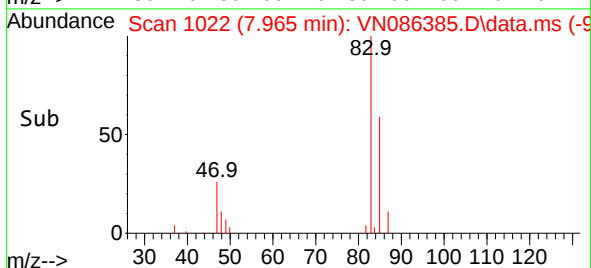
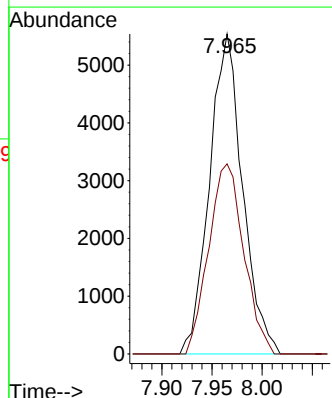
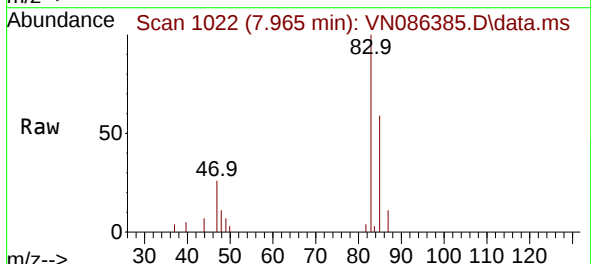
Instrument :  
MSVOA\_N  
ClientSampleId :  
EFF-WASTE-WATER

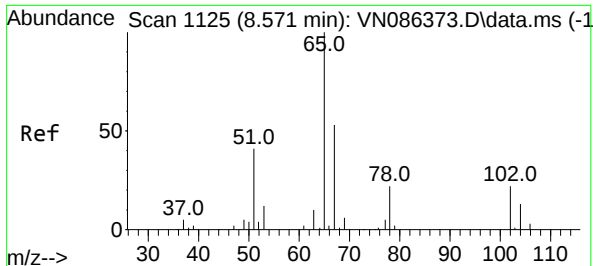
|             |             |
|-------------|-------------|
| Tgt Ion: 45 | Resp: 51372 |
| Ion Ratio   | Lower Upper |
| 45 100      |             |
| 43 51.0     | 38.8 58.2   |
| 87 29.3     | 23.5 35.3   |
| 59 14.2     | 10.0 15.0   |



#25  
Chloroform  
Concen: 3.089 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 12701 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 59.4     | 50.2 75.2   |





#27

1,2-Dichloroethane-d4

Concen: 30.773 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

Instrument :

MSVOA\_N

ClientSampleId :

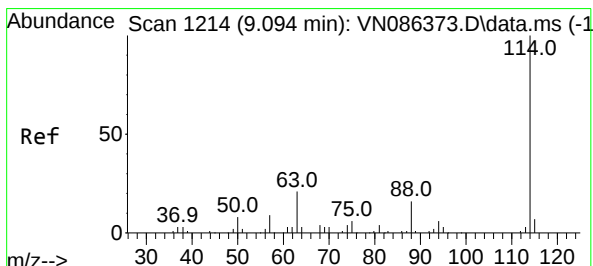
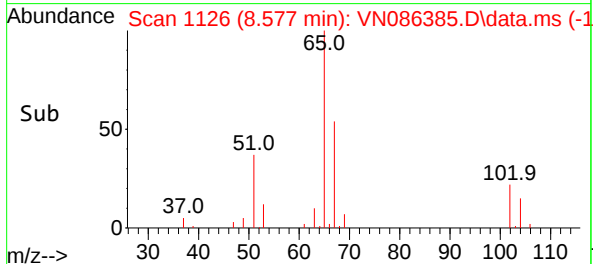
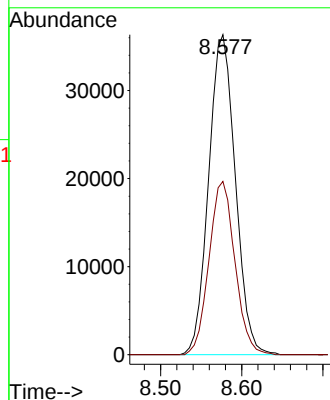
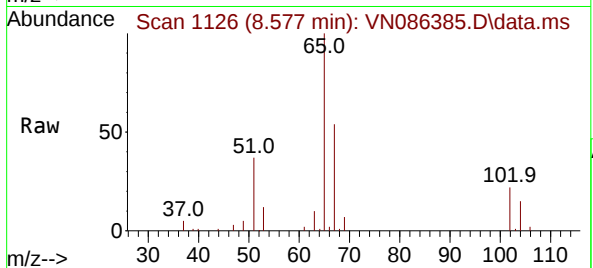
EFF-WASTE-WATER

Tgt Ion: 65 Resp: 83028

Ion Ratio Lower Upper

65 100

67 52.6 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

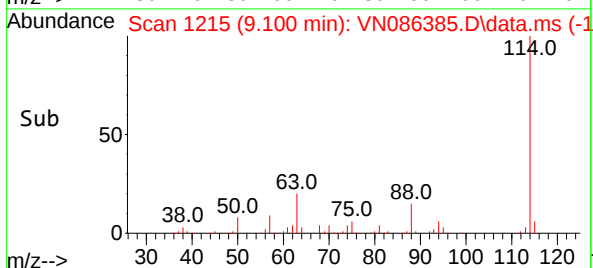
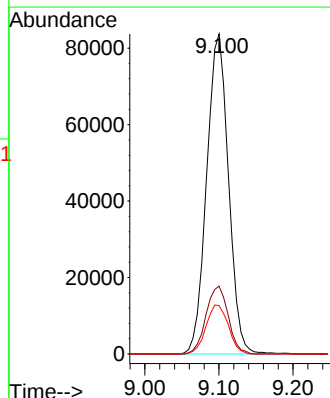
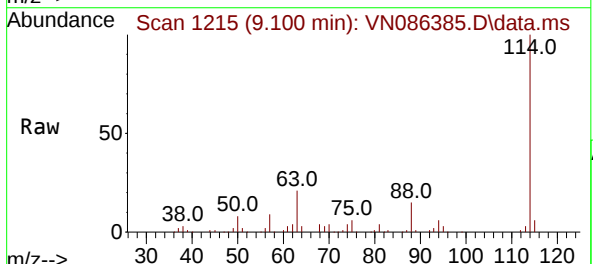
Tgt Ion: 114 Resp: 171526

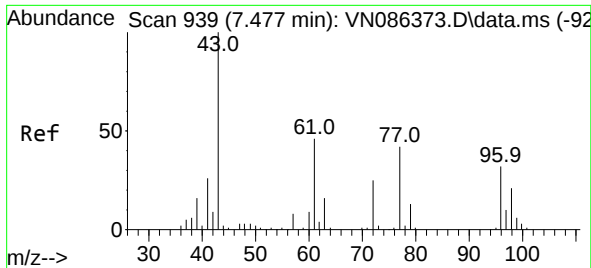
Ion Ratio Lower Upper

114 100

63 21.5 16.7 25.1

88 15.7 12.6 19.0

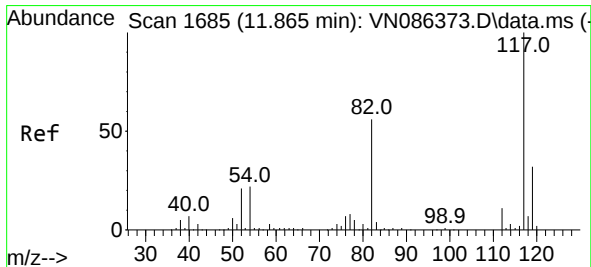
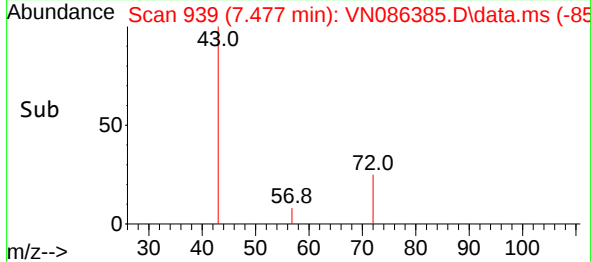
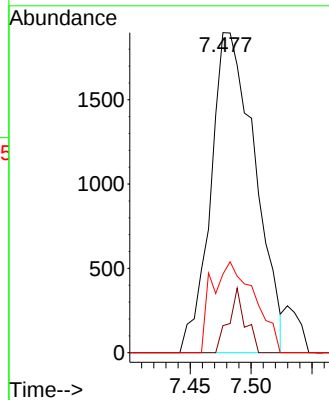
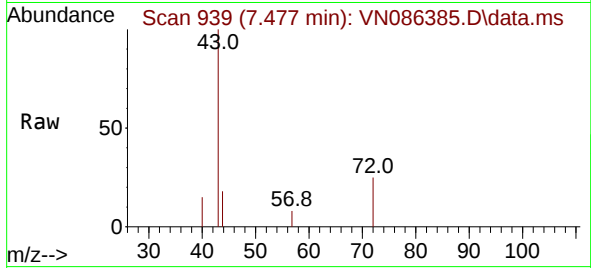




#30  
2-Butanone  
Concen: 3.275 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

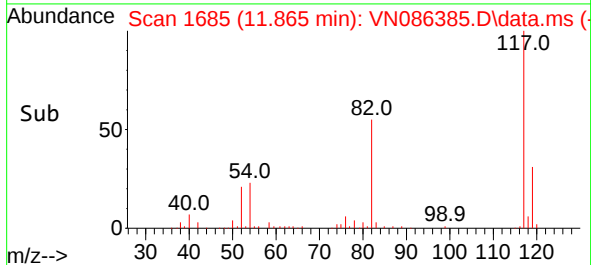
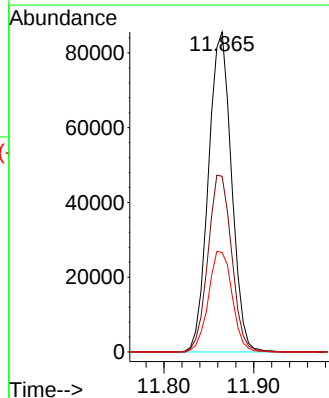
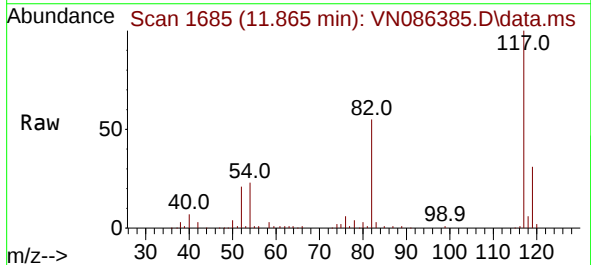
Instrument :  
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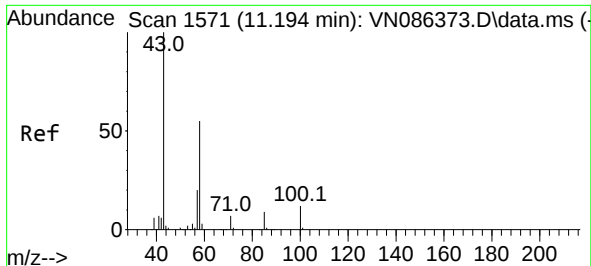
Tgt Ion: 43 Resp: 4807  
Ion Ratio Lower Upper  
43 100  
57 7.6 6.6 10.0  
72 21.4 22.2 33.4#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

Tgt Ion: 117 Resp: 153120  
Ion Ratio Lower Upper  
117 100  
82 56.6 45.5 68.3  
119 32.4 25.9 38.9

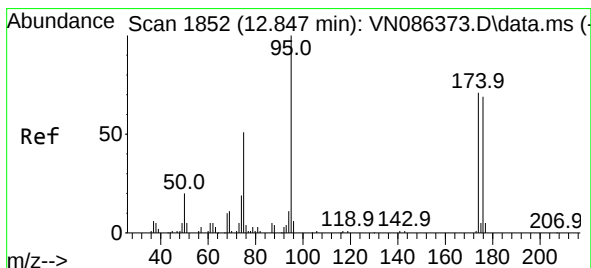
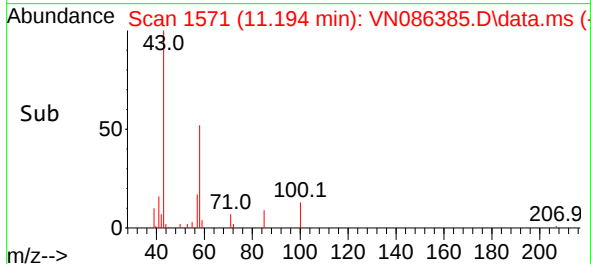
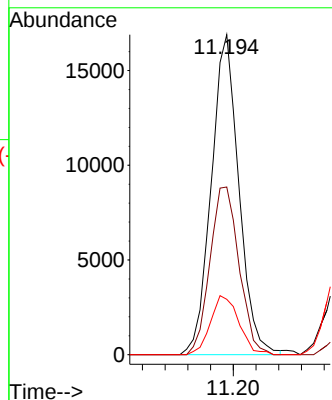
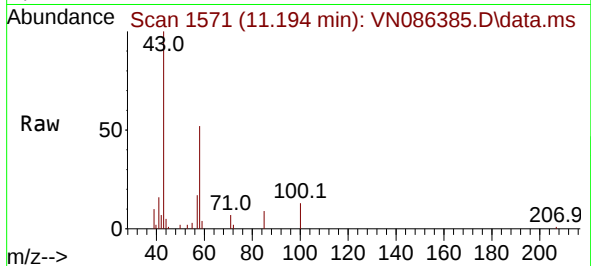




#59  
2-Hexanone  
Concen: 13.059 ug/l  
RT: 11.194 min Scan# 111  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

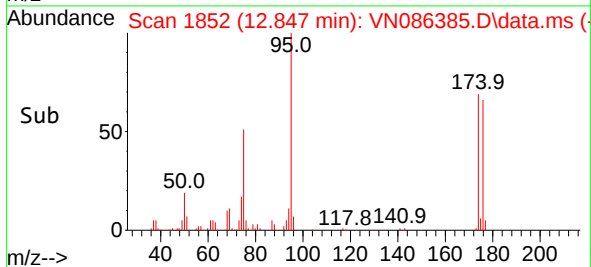
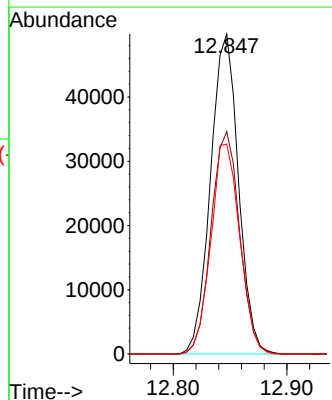
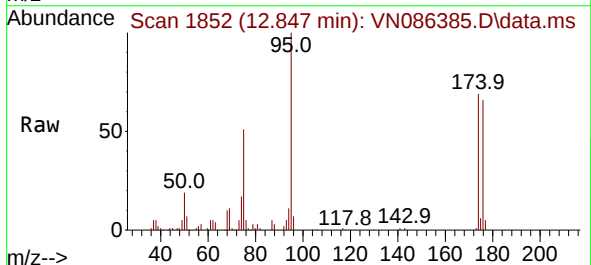
Instrument :  
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EFF-WASTE-WATER

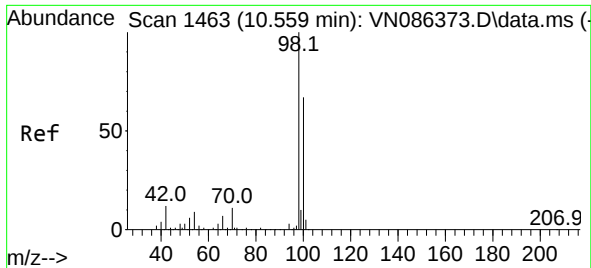
Tgt Ion: 43 Resp: 28516  
Ion Ratio Lower Upper  
43 100  
58 55.2 45.0 67.6  
57 18.8 15.5 23.3



#60  
4-Bromofluorobenzene  
Concen: 28.264 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

Tgt Ion: 95 Resp: 85059  
Ion Ratio Lower Upper  
95 100  
174 71.0 56.6 84.8  
176 68.0 53.3 79.9





#63  
Toluene-d8  
Concen: 30.473 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.006 min  
Lab File: VN086385.D  
Acq: 23 Apr 2025 16:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
EFF-WASTE-WATER

Tgt Ion: 98 Resp: 256697  
Ion Ratio Lower Upper  
98 100  
100 65.2 53.1 79.7

