

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101222\  
 Data File : VN074887.D  
 Acq On : 12 Oct 2022 19:58  
 Operator : JC\MD  
 Sample : N5089-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002-35TH-AVE(OCT)

Quant Time: Oct 13 08:03:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N101222W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 13 07:52:24 2022  
 Response via : Initial Calibration

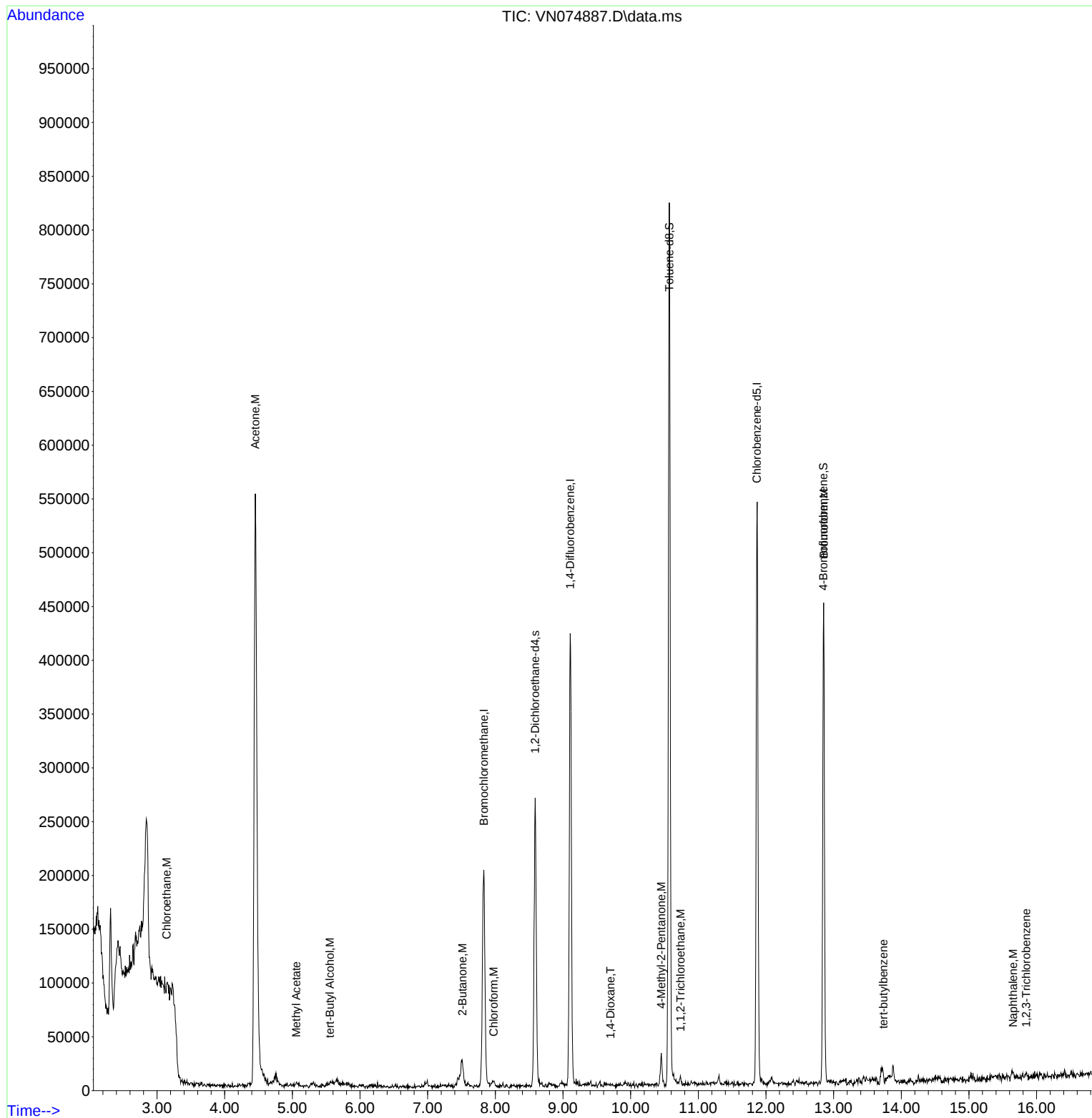
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-----------------------------|--------|-------|----------|----------|--------|-----------|
| -----                       |        |       |          |          |        |           |
| Internal Standards          |        |       |          |          |        |           |
| 1) Bromochloromethane       | 7.830  | 128   | 60236    | 30.000   | ug/l   | 0.00      |
| 28) 1,4-Difluorobenzene     | 9.106  | 114   | 360880   | 30.000   | ug/l   | 0.00      |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 304399   | 30.000   | ug/l   | 0.00      |
| System Monitoring Compounds |        |       |          |          |        |           |
| 27) 1,2-Dichloroethane-d4   | 8.588  | 65    | 193585   | 34.327   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 114.433%# |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 142284   | 26.358   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 87.867%   |
| 63) Toluene-d8              | 10.571 | 98    | 543452   | 30.934   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 103.100%  |
| Target Compounds            |        |       |          |          |        |           |
|                             |        |       |          |          | Qvalue |           |
| 6) Chloroethane             | 3.142  | 64    | 2985     | 0.500    | ug/l # | 48        |
| 12) Methyl Acetate          | 5.059  | 43    | 2253     | 0.254    | ug/l   | 98        |
| 15) Acetone                 | 4.453  | 58    | 335065   | 369.944  | ug/l   | 83        |
| 23) tert-Butyl Alcohol      | 5.553  | 59    | 851      | 0.611    | ug/l # | 100       |
| 25) Chloroform              | 7.977  | 83    | 2728     | 0.316    | ug/l # | 73        |
| 30) 2-Butanone              | 7.512  | 43    | 41905    | 8.066    | ug/l # | 76        |
| 45) 1,4-Dioxane             | 9.700  | 88    | 239      | 1.669    | ug/l # | 42        |
| 50) 1,1,2-Trichloroethane   | 10.735 | 97    | 3056     | 0.562    | ug/l # | 16        |
| 56) Bromoform               | 12.853 | 173   | 2026     | 0.527    | ug/l # | 1         |
| 58) 4-Methyl-2-Pentanone    | 10.453 | 43    | 20890    | 2.207    | ug/l # | 86        |
| 79) tert-butylbenzene       | 13.735 | 119   | 3490     | 0.214    | ug/l   | 48        |
| 91) Naphthalene             | 15.653 | 128   | 4580     | 0.276    | ug/l # | 79        |
| 92) 1,2,3-Trichlorobenzene  | 15.847 | 180   | 909      | 0.208    | ug/l   | 83        |
| -----                       |        |       |          |          |        |           |

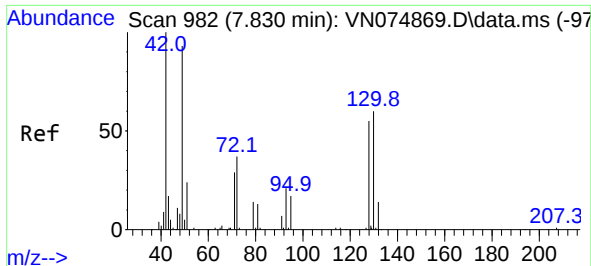
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(OCT)

Quant Time: Oct 13 08:03:30 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N101222W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Oct 13 07:52:24 2022  
Response via : Initial Calibration

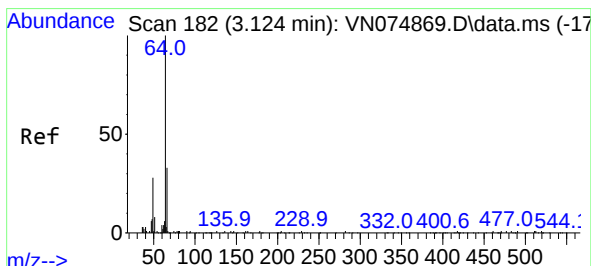
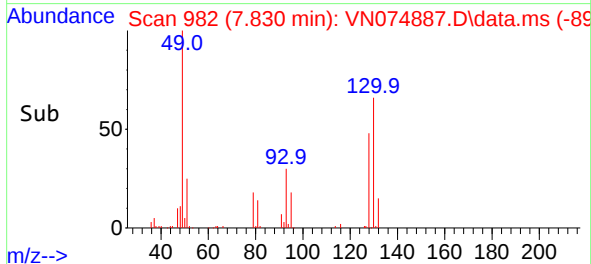
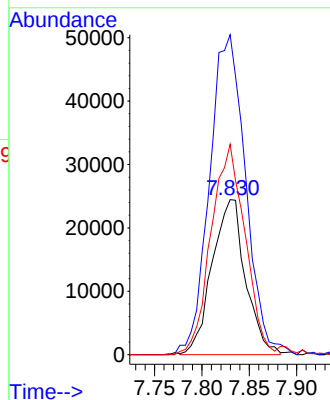
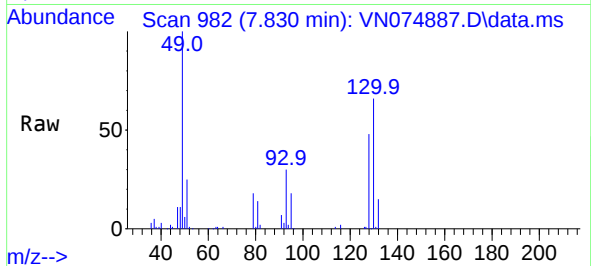




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.830 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

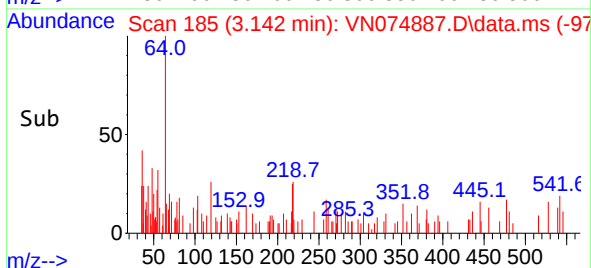
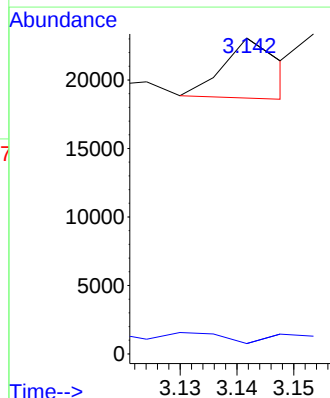
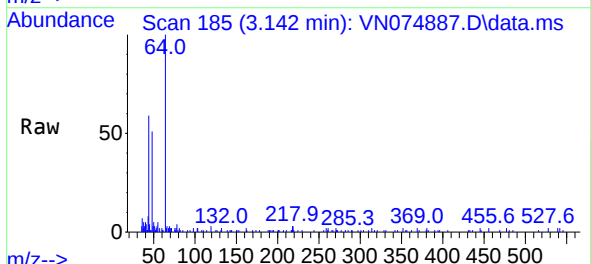
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(OCT)

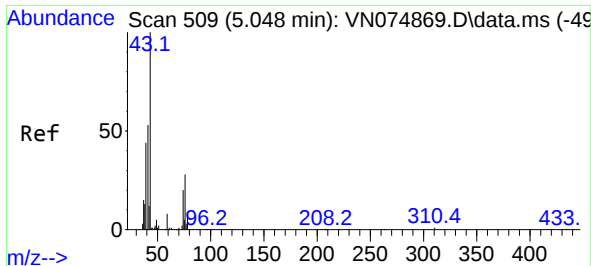
Tgt Ion:128 Resp: 60236  
Ion Ratio Lower Upper  
128 100  
49 219.8 0.0 492.0  
130 137.1 0.0 313.3



#6  
Chloroethane  
Concen: 0.500 ug/l  
RT: 3.142 min Scan# 185  
Delta R.T. 0.018 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion: 64 Resp: 2985  
Ion Ratio Lower Upper  
64 100  
66 0.0 21.8 32.8#

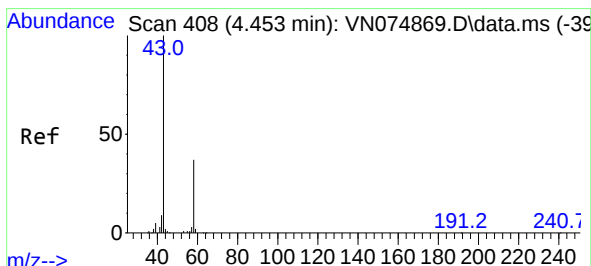
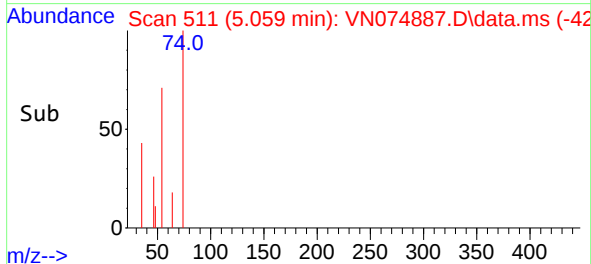
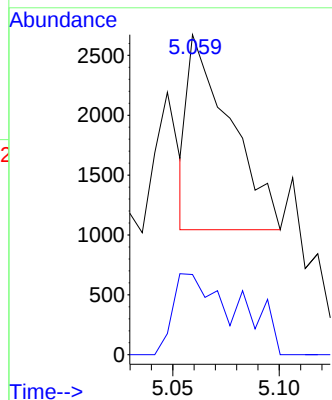
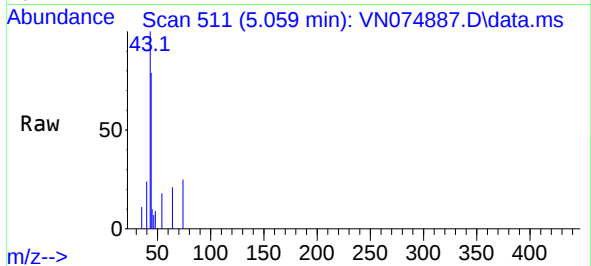




#12  
Methyl Acetate  
Concen: 0.254 ug/l  
RT: 5.059 min Scan# 511  
Delta R.T. 0.012 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

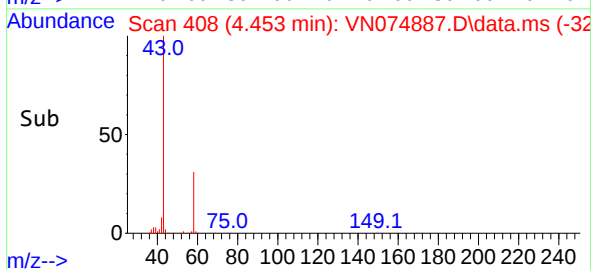
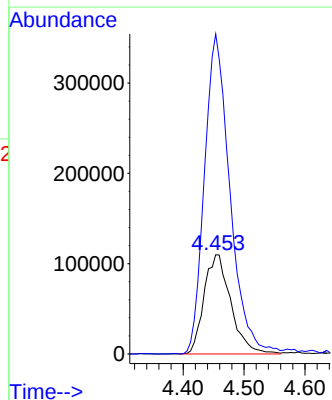
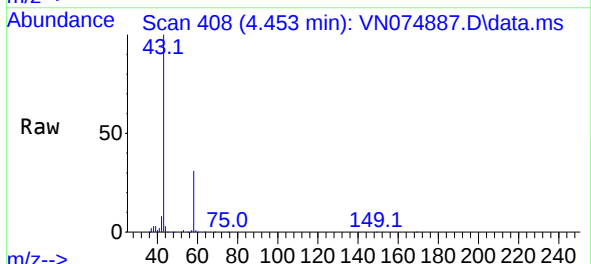
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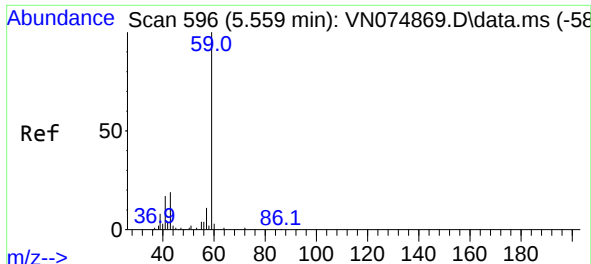
Tgt Ion: 43 Resp: 2253  
Ion Ratio Lower Upper  
43 100  
74 24.9 19.0 28.6



#15  
Acetone  
Concen: 369.944 ug/l  
RT: 4.453 min Scan# 408  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion: 58 Resp: 335065  
Ion Ratio Lower Upper  
58 100  
43 322.7 232.2 348.4

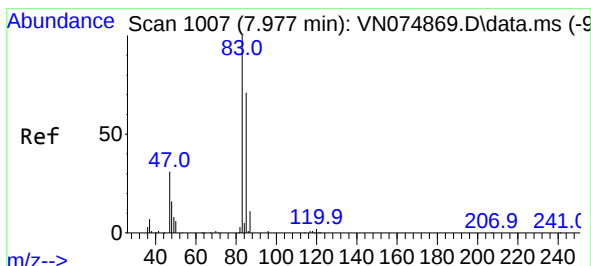
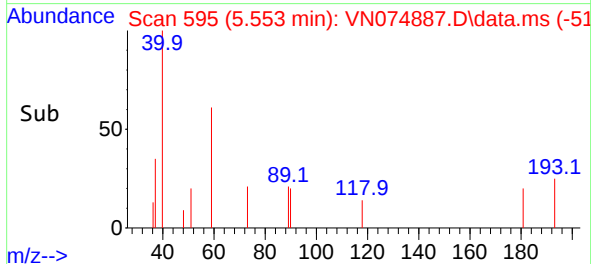
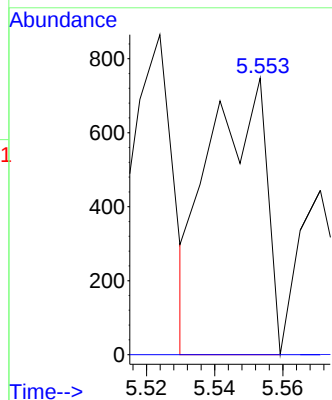
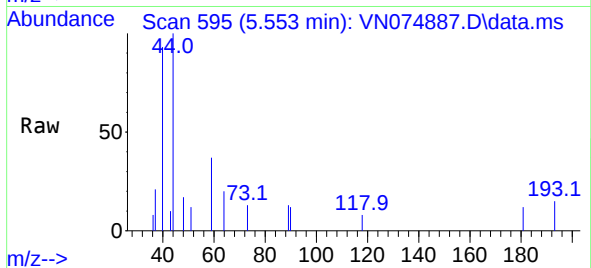




#23  
tert-Butyl Alcohol  
Concen: 0.611 ug/l  
RT: 5.553 min Scan# 595  
Delta R.T. -0.006 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

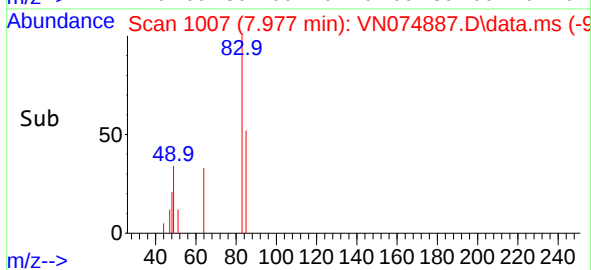
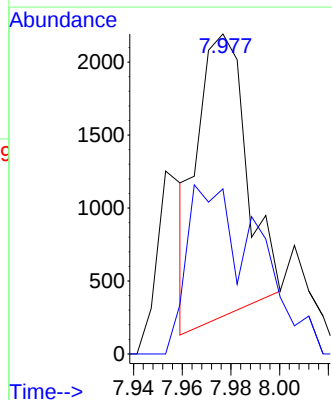
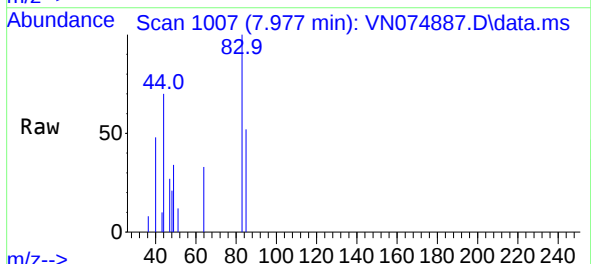
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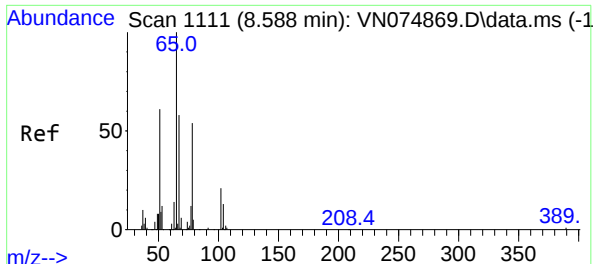
Tgt Ion: 59 Resp: 851  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.2 0.4#



#25  
Chloroform  
Concen: 0.316 ug/l  
RT: 7.977 min Scan# 1007  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion: 83 Resp: 2728  
Ion Ratio Lower Upper  
83 100  
85 45.1 53.6 80.4#

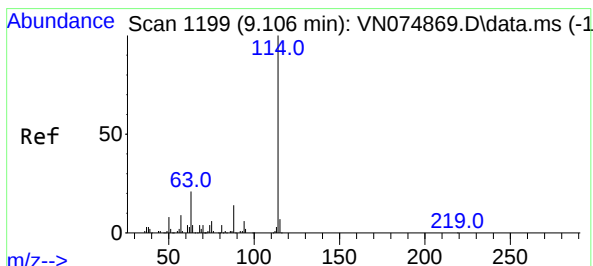
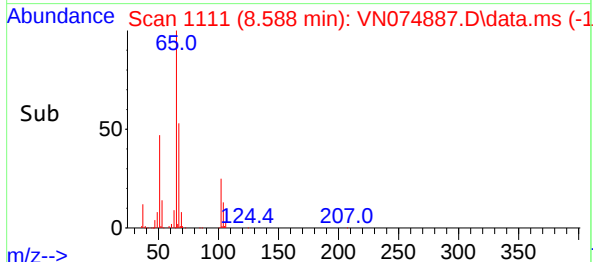
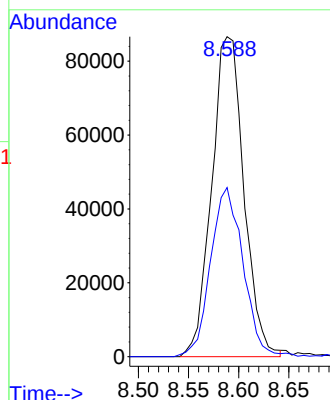
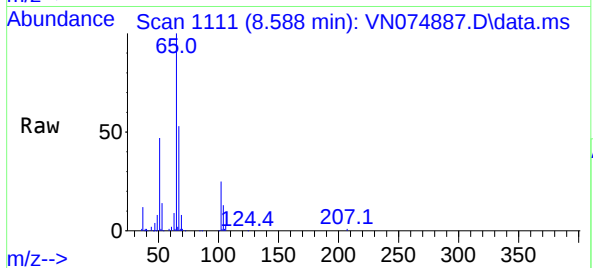




#27  
1,2-Dichloroethane-d4  
Concen: 34.327 ug/l  
RT: 8.588 min Scan# 1111  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

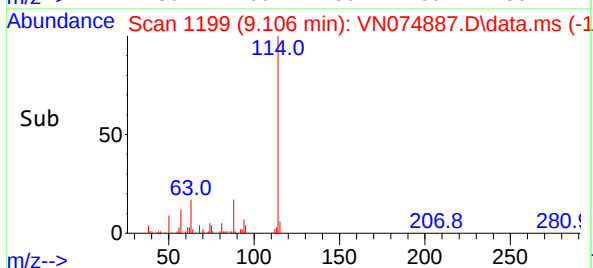
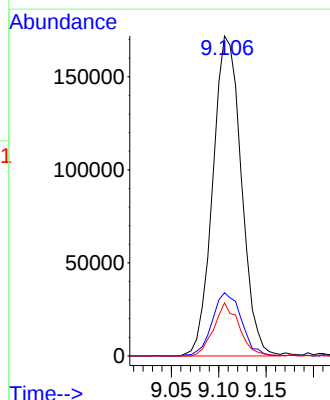
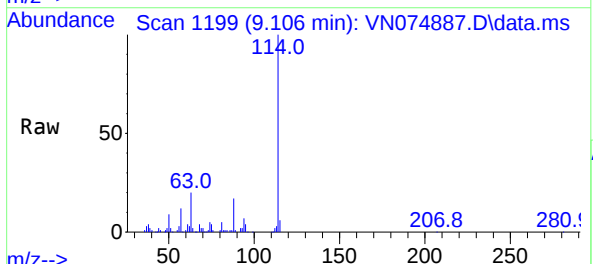
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002-35TH-AVE(OCT)

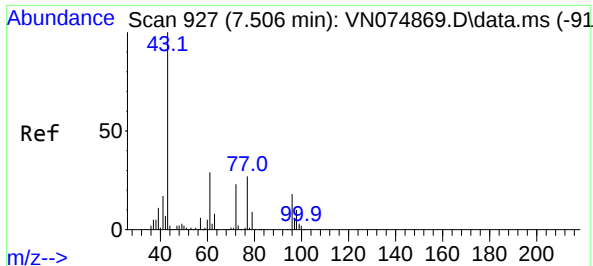
Tgt Ion: 65 Resp: 193585  
Ion Ratio Lower Upper  
65 100  
67 53.1 45.2 67.8



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion:114 Resp: 360880  
Ion Ratio Lower Upper  
114 100  
63 20.2 16.6 25.0  
88 14.7 12.2 18.4

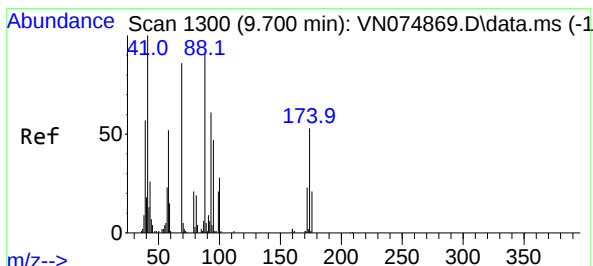
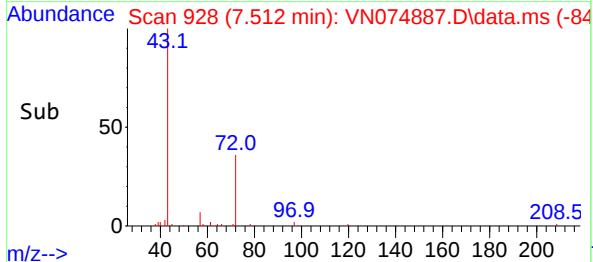
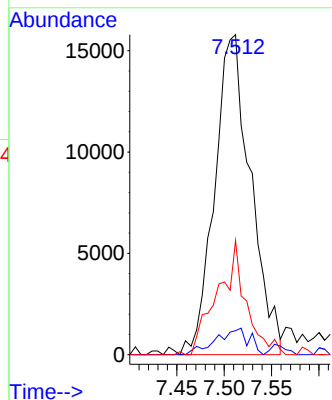
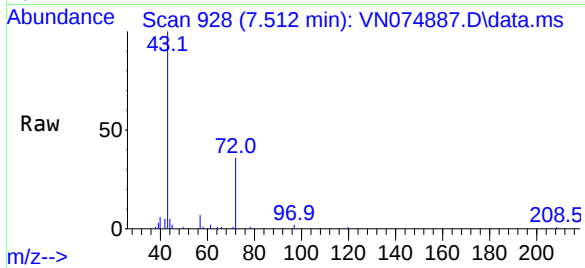




#30  
2-Butanone  
Concen: 8.066 ug/l  
RT: 7.512 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

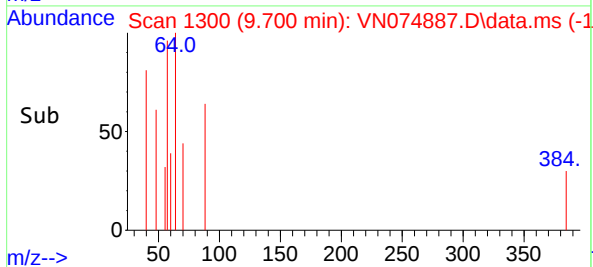
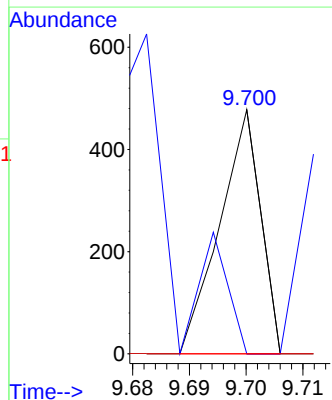
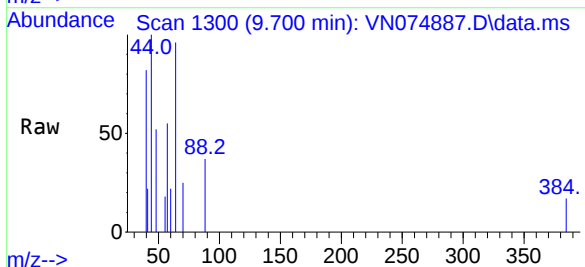
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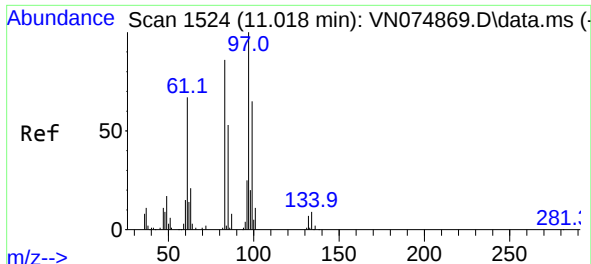
Tgt Ion: 43 Resp: 41905  
Ion Ratio Lower Upper  
43 100  
57 6.8 6.3 9.5  
72 10.7 21.0 31.4#



#45  
1,4-Dioxane  
Concen: 1.669 ug/l  
RT: 9.700 min Scan# 1300  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion: 88 Resp: 239  
Ion Ratio Lower Upper  
88 100  
43 35.1 25.7 38.5  
58 0.0 53.4 80.2#

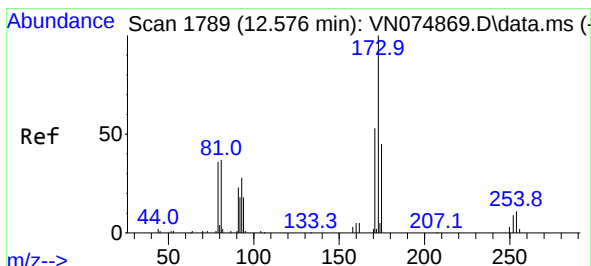
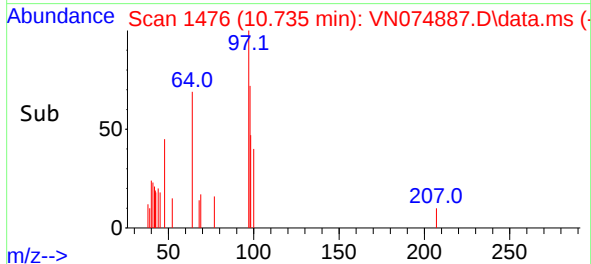
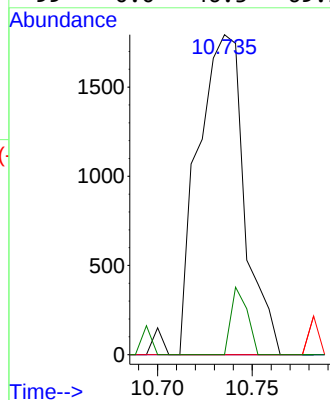
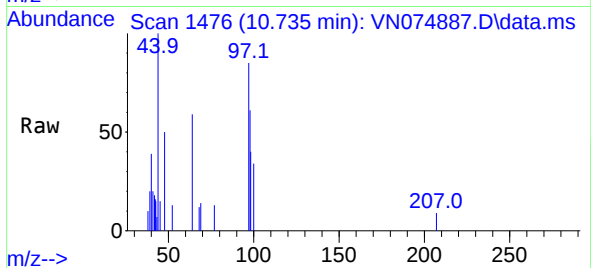




#50  
1,1,2-Trichloroethane  
Concen: 0.562 ug/l  
RT: 10.735 min Scan# 14  
Delta R.T. -0.282 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

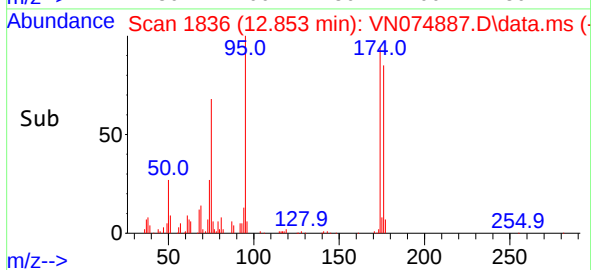
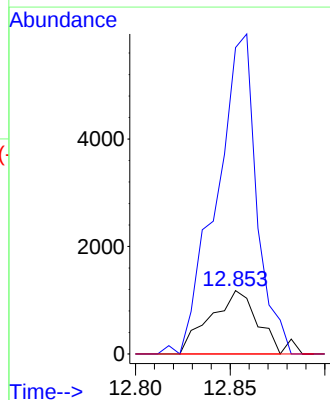
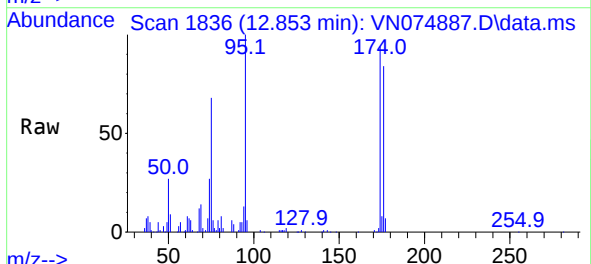
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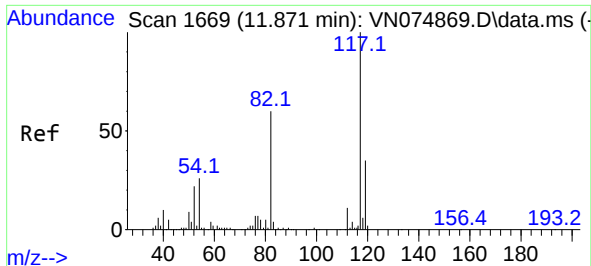
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 97 | Resp: | 3056        |
| Ion         | Ratio | Lower Upper |
| 97          | 100   |             |
| 83          | 0.0   | 69.2 103.8# |
| 85          | 0.0   | 41.4 62.2#  |
| 99          | 0.0   | 46.3 69.5#  |



#56  
Bromoform  
Concen: 0.527 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.276 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 173 | Resp: | 2026        |
| Ion          | Ratio | Lower Upper |
| 173          | 100   |             |
| 175          | 432.5 | 39.1 58.7#  |
| 254          | 0.0   | 7.0 10.6#   |

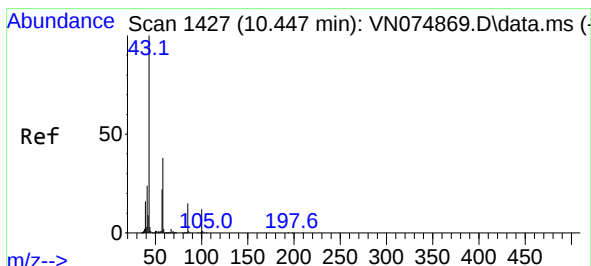
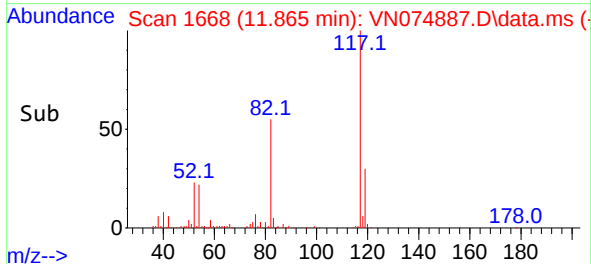
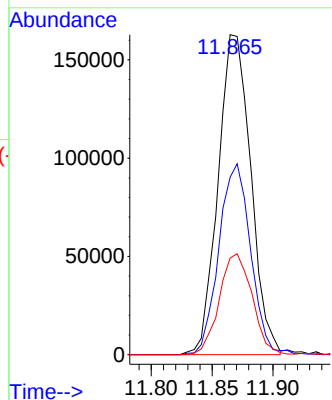
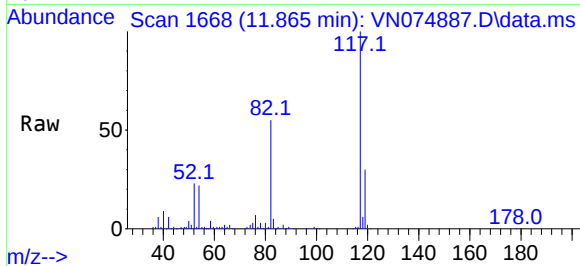




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

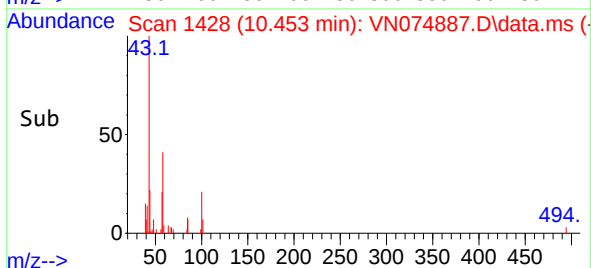
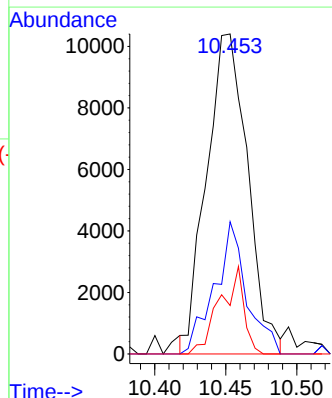
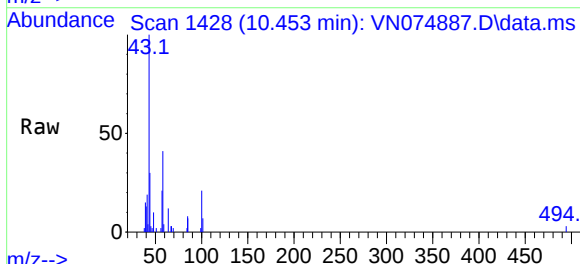
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(OCT)

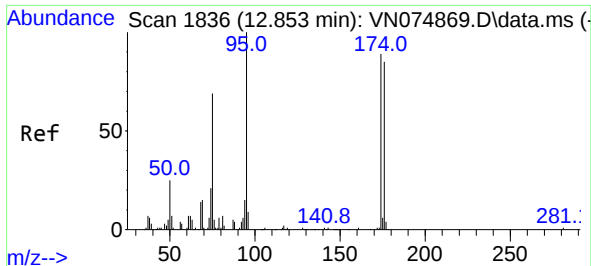
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 304399 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 57.6  | 44.6  | 67.0   |
| 119      | 31.6  | 25.6  | 38.4   |



#58  
4-Methyl-2-Pentanone  
Concen: 2.207 ug/l  
RT: 10.453 min Scan# 1428  
Delta R.T. 0.006 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20890 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 32.3  | 30.8  | 46.2  |
| 85       | 6.6   | 13.3  | 19.9  |



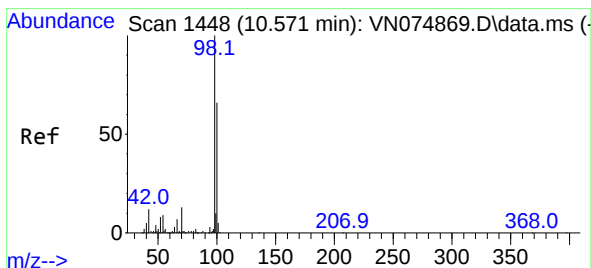
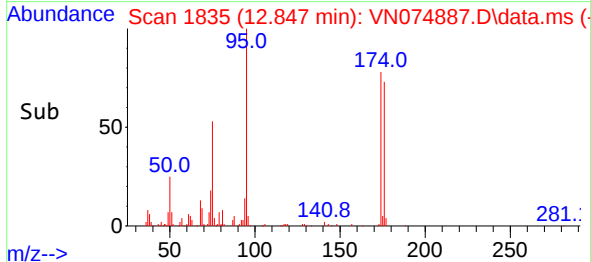
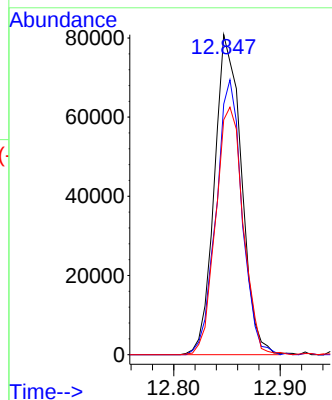
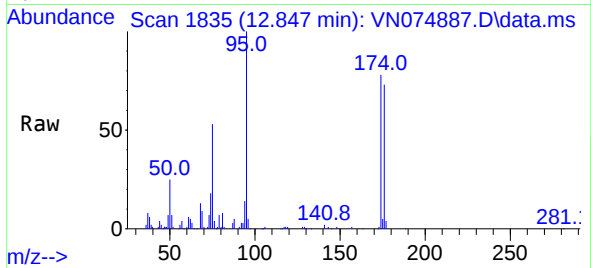


#60  
4-Bromofluorobenzene  
Concen: 26.358 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.006 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(OCT)

Tgt Ion: 95 Resp: 142284

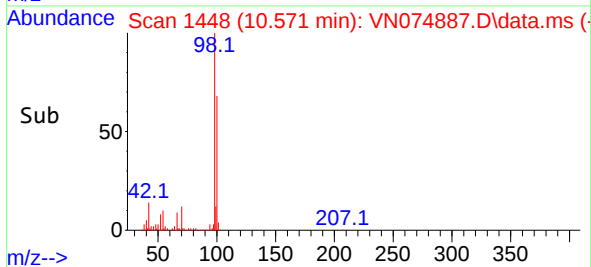
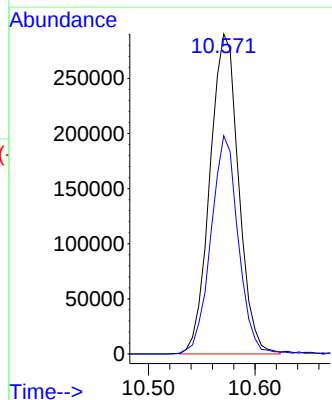
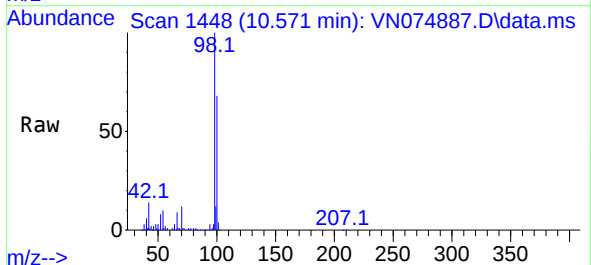
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 82.3  | 57.8  | 86.8  |
| 176 | 78.8  | 57.0  | 85.4  |

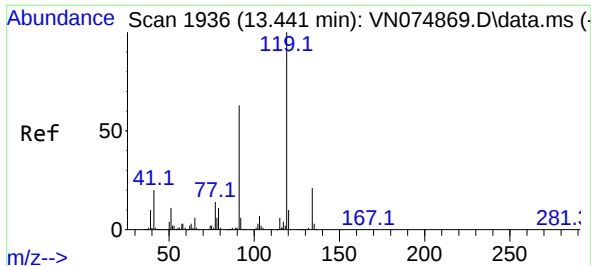


#63  
Toluene-d8  
Concen: 30.934 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion: 98 Resp: 543452

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 65.0  | 52.7  | 79.1  |

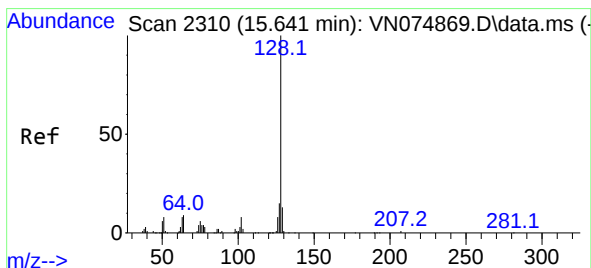
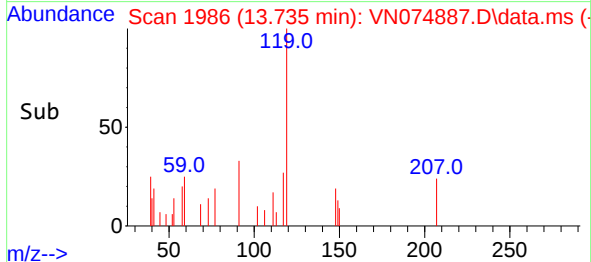
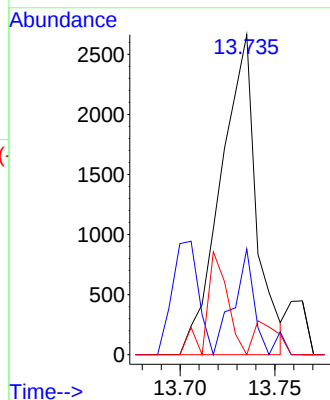
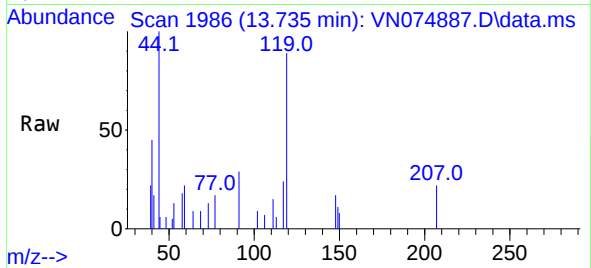




#79  
tert-butylbenzene  
Concen: 0.214 ug/l  
RT: 13.735 min Scan# 1936  
Delta R.T. 0.294 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

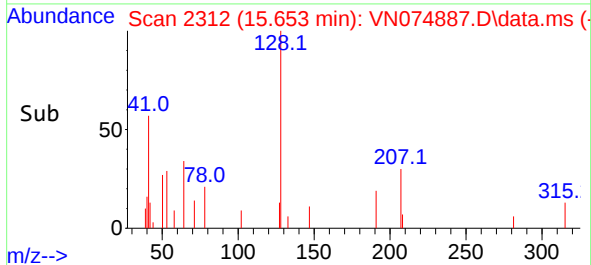
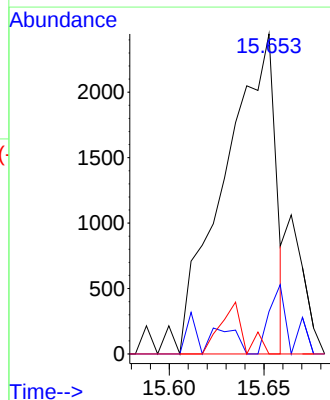
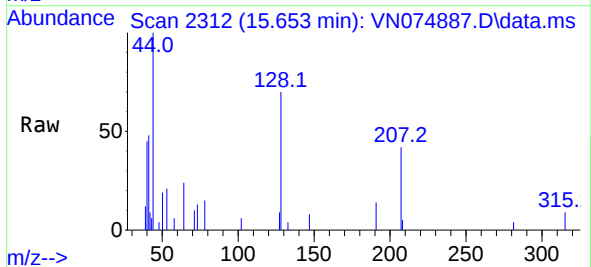
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(OCT)

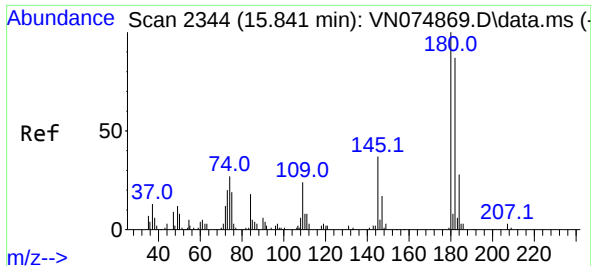
Tgt Ion:119 Resp: 3490  
Ion Ratio Lower Upper  
119 100  
91 18.7 0.0 129.0  
134 6.9 0.0 52.2



#91  
Naphthalene  
Concen: 0.276 ug/l  
RT: 15.653 min Scan# 2312  
Delta R.T. 0.012 min  
Lab File: VN074887.D  
Acq: 12 Oct 2022 19:58

Tgt Ion:128 Resp: 4580  
Ion Ratio Lower Upper  
128 100  
127 6.6 10.7 16.1#  
129 1.3 8.9 13.3#





#92

1,2,3-Trichlorobenzene

Concen: 0.208 ug/l

RT: 15.847 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN074887.D

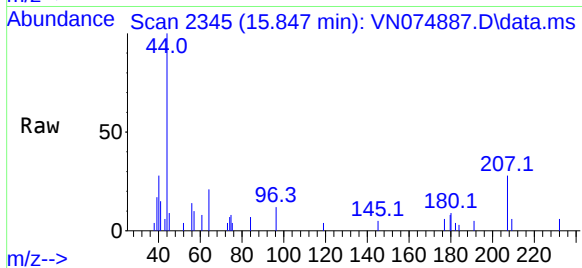
Acq: 12 Oct 2022 19:58

Instrument :

MSVOA\_N

ClientSampleId :

002-35TH-AVE(OCT)



Tgt Ion:180 Resp: 909

Ion Ratio Lower Upper

180 100

182 106.5 0.0 185.4

145 19.6 0.0 68.6

