

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100722\  
 Data File : VN074805.D  
 Acq On : 07 Oct 2022 12:42  
 Operator : JC\MD  
 Sample : N4974-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 257248-6

Quant Time: Oct 08 03:51:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 06 05:37:50 2022  
 Response via : Initial Calibration

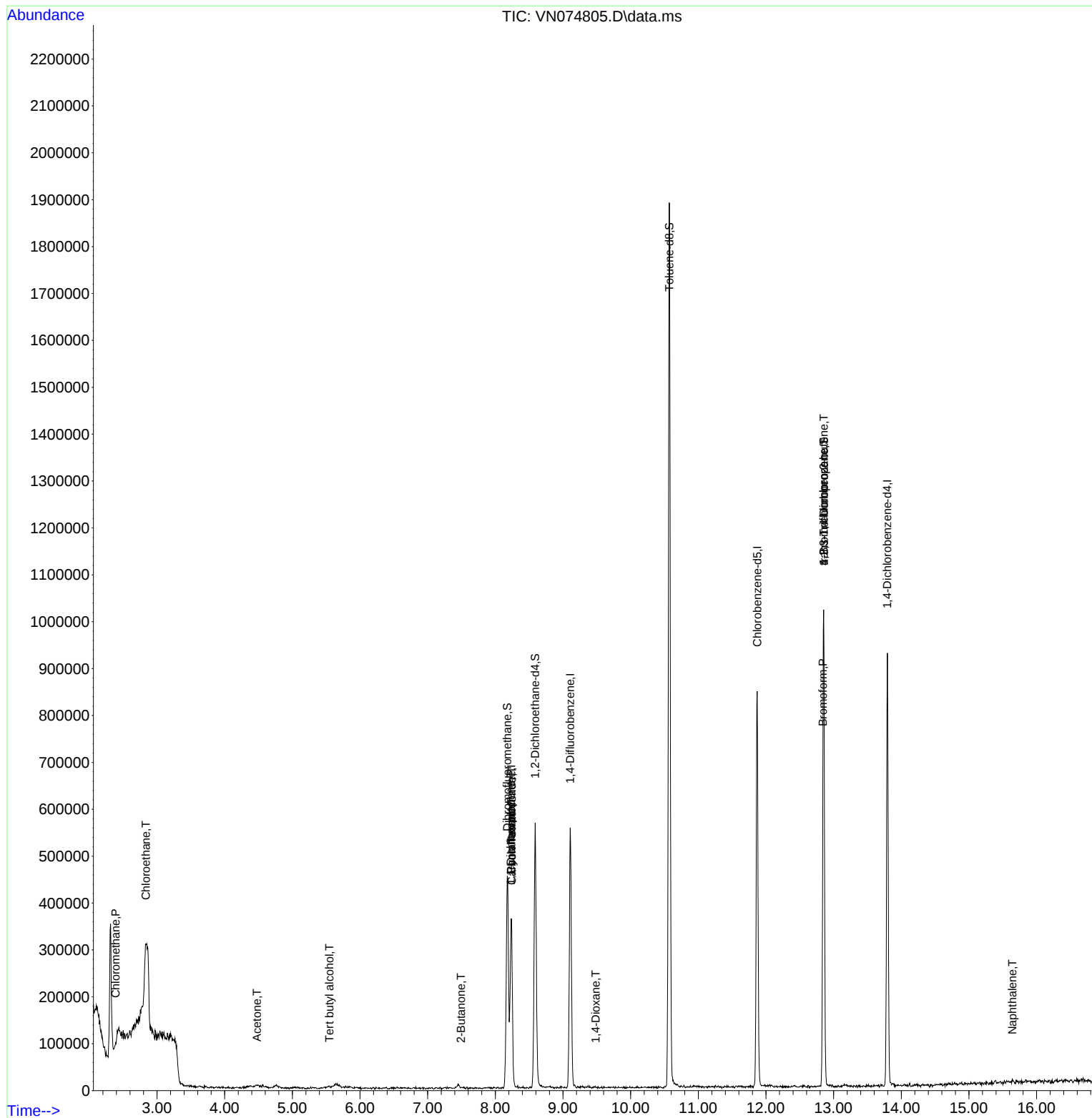
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 8.235  | 168   | 251835   | 50.000    | ug/l        | # 0.00   |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 472108   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 462875   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 235753   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 405897   | 68.023    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 136.040%# |          |
| 35) Dibromofluoromethane      | 8.177  | 113   | 319098   | 66.897    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 133.800%# |          |
| 50) Toluene-d8                | 10.571 | 98    | 1292571  | 63.153    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 126.300%# |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 325251   | 52.276    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 104.560%  |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 3) Chloromethane              | 2.389  | 50    | 2858     | 0.372     | ug/l        | # 56     |
| 6) Chloroethane               | 2.836  | 64    | 258868   | 36.791    | ug/l        | # 51     |
| 11) Tert butyl alcohol        | 5.547  | 59    | 1168     | 0.584     | ug/l        | # 74     |
| 13) Acrolein                  | 4.195  | 56    | 85       | Below Cal | #           | 1        |
| 16) Acetone                   | 4.477  | 43    | 3438     | 1.017     | ug/l        | 96       |
| 20) Methylene Chloride        | 5.294  | 84    | 501      | Below Cal | #           | 40       |
| 25) 2-Butanone                | 7.494  | 43    | 1333     | 0.217     | ug/l        | # 48     |
| 31) Cyclohexane               | 8.235  | 56    | 7359     | 0.714     | ug/l        | # 44     |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 22020    | 2.852     | ug/l        | # 47     |
| 38) Carbon Tetrachloride      | 8.241  | 117   | 26583    | 3.651     | ug/l        | # 15     |
| 49) 1,4-Dioxane               | 9.482  | 88    | 175      | 1.028     | ug/l        | # 24     |
| 71) Bromoform                 | 12.841 | 173   | 3143     | 0.796     | ug/l        | # 1      |
| 75) 1,1,2,2-Tetrachloroethane | 12.929 | 83    | 57       | Below Cal | #           | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 191802   | 27.258    | ug/l        | # 1      |
| 77) Bromobenzene              | 12.976 | 156   | 381      | Below Cal | #           | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 191802   | 53.108    | ug/l        | # 15     |
| 95) Naphthalene               | 15.641 | 128   | 4842     | 0.296     | ug/l        | # 81     |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180   | 391      | Below Cal | #           | 43       |
| -----                         |        |       |          |           |             |          |

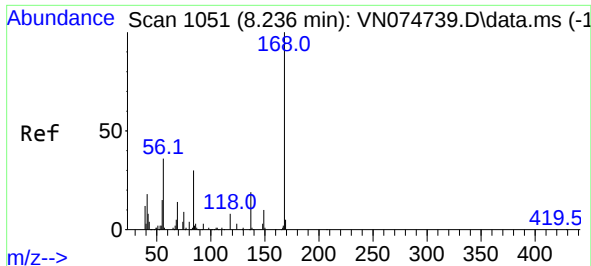
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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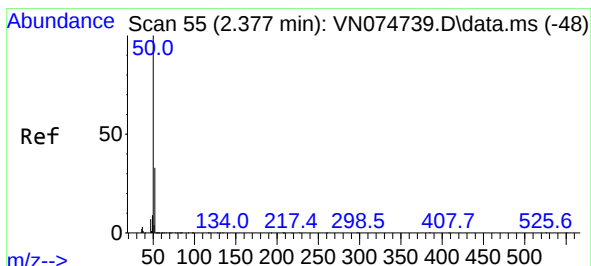
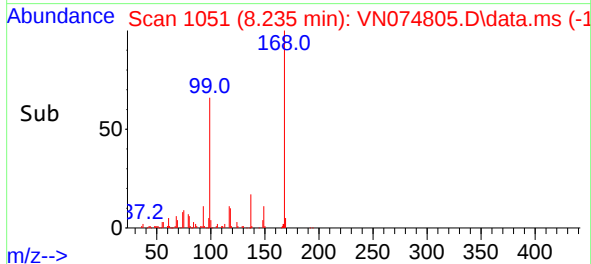
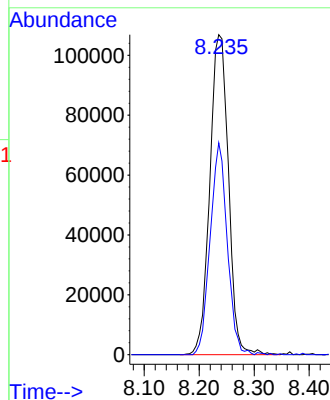
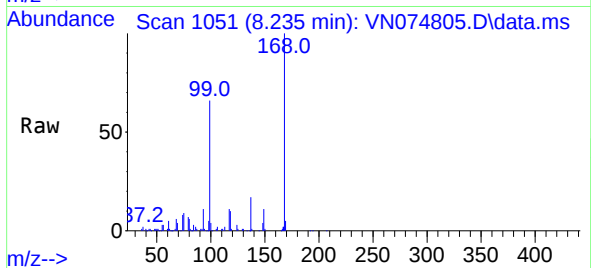




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 10  
Delta R.T. -0.001 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

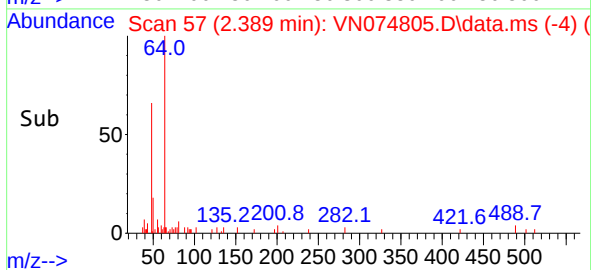
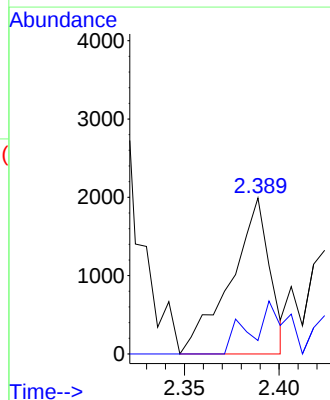
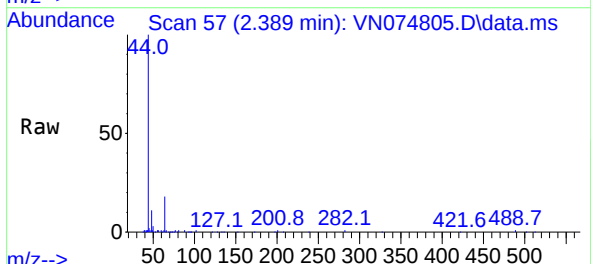
Instrument :  
MSVOA\_N  
ClientSampleId :  
257248-6

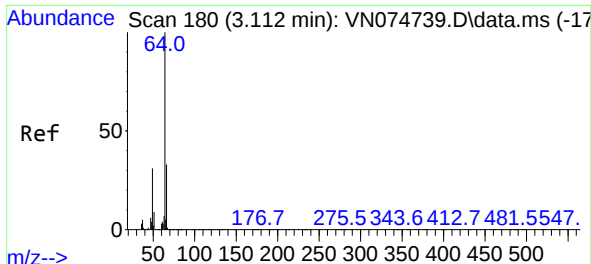
Tgt Ion:168 Resp: 251835  
Ion Ratio Lower Upper  
168 100  
99 66.2 42.8 64.2#



#3  
Chloromethane  
Concen: 0.372 ug/l  
RT: 2.389 min Scan# 57  
Delta R.T. 0.012 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 50 Resp: 2858  
Ion Ratio Lower Upper  
50 100  
52 8.6 26.7 40.1#

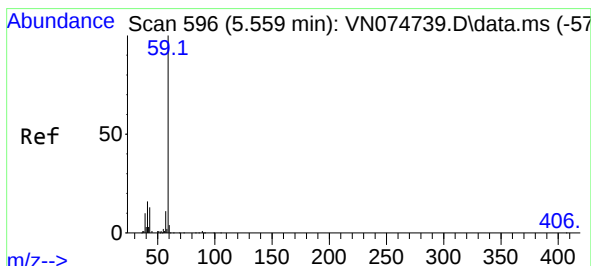
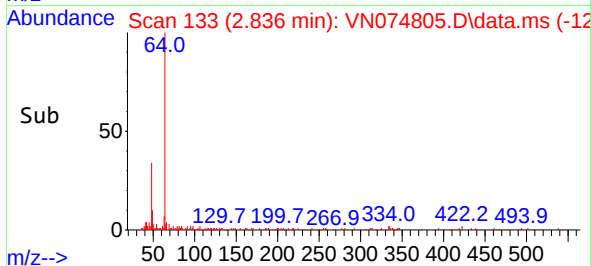
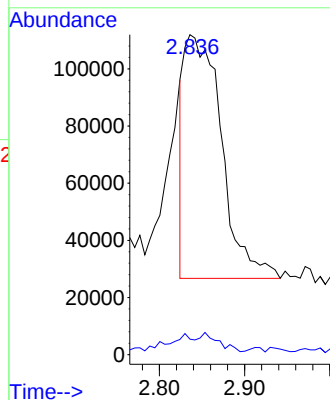
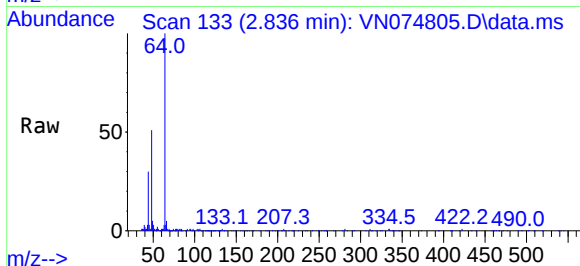




#6  
Chloroethane  
Concen: 36.791 ug/l  
RT: 2.836 min Scan# 11  
Delta R.T. -0.277 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

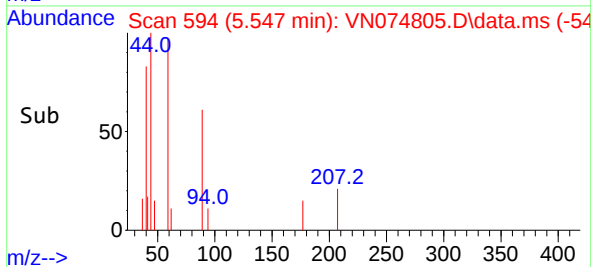
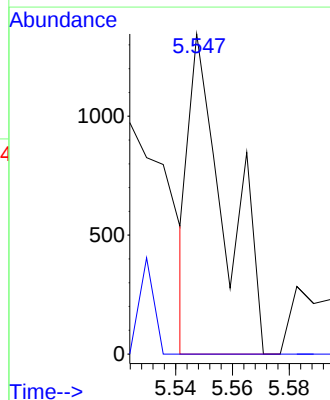
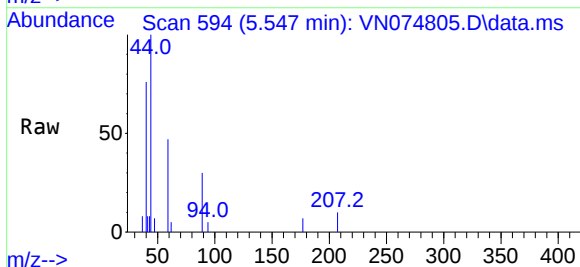
Instrument :  
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ClientSampleId :  
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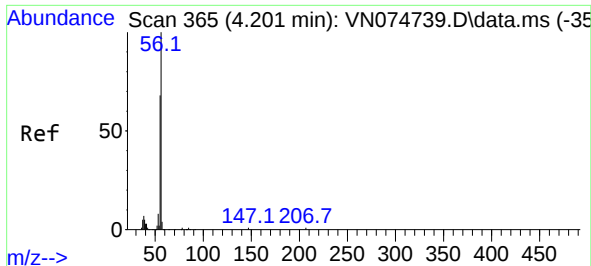
Tgt Ion: 64 Resp: 258868  
Ion Ratio Lower Upper  
64 100  
66 4.1 25.1 37.7#



#11  
Tert butyl alcohol  
Concen: 0.584 ug/l  
RT: 5.547 min Scan# 594  
Delta R.T. -0.012 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 59 Resp: 1168  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#

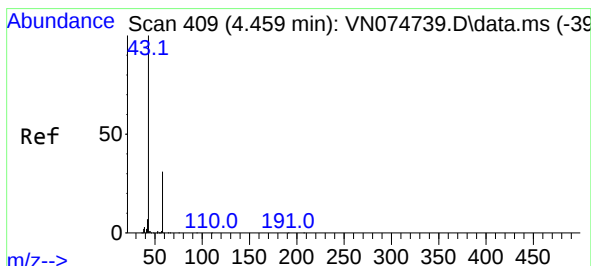
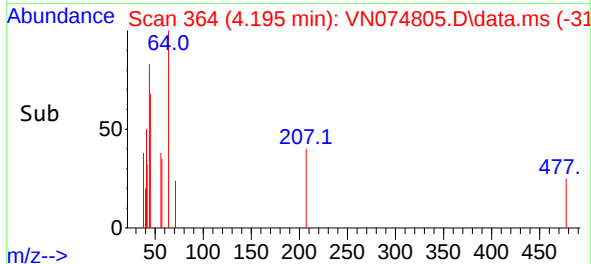
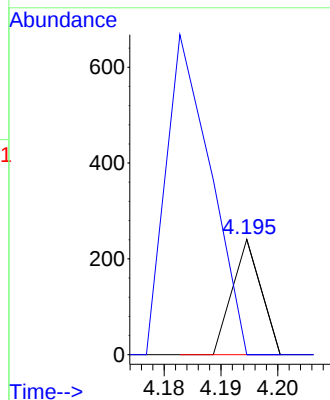
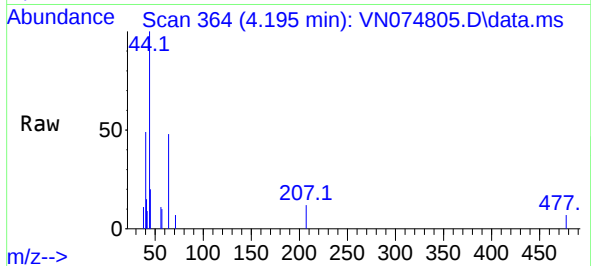




#13  
Acrolein  
Concen: Below Cal  
RT: 4.195 min Scan# 30  
Delta R.T. -0.006 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

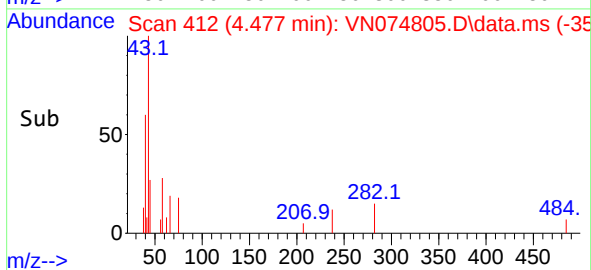
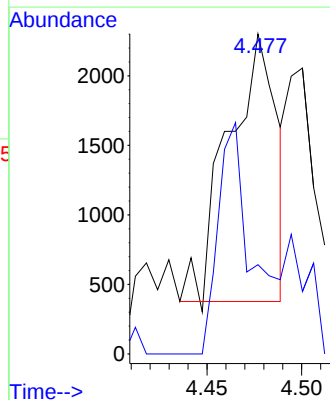
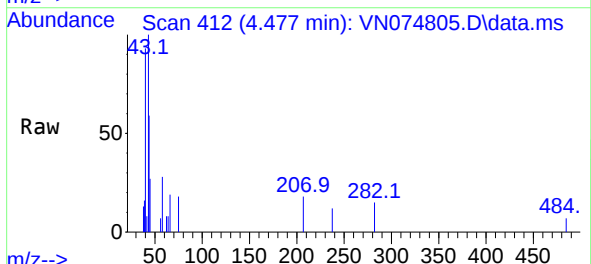
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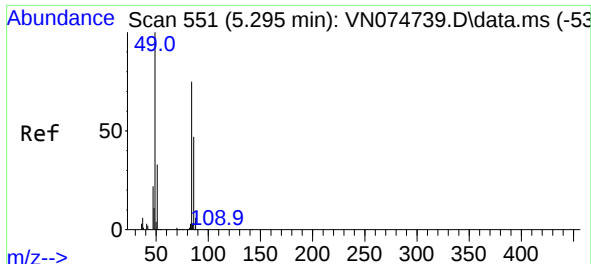
Tgt Ion: 56 Resp: 85  
Ion Ratio Lower Upper  
56 100  
55 429.4 54.9 82.3#



#16  
Acetone  
Concen: 1.017 ug/l  
RT: 4.477 min Scan# 412  
Delta R.T. 0.017 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 43 Resp: 3438  
Ion Ratio Lower Upper  
43 100  
58 33.4 24.9 37.3

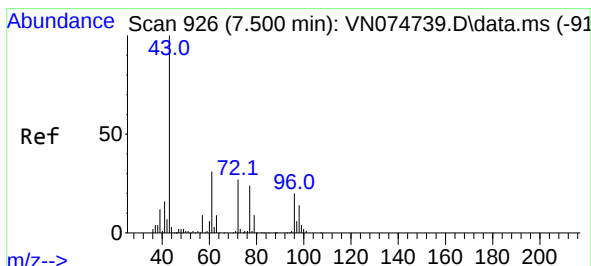
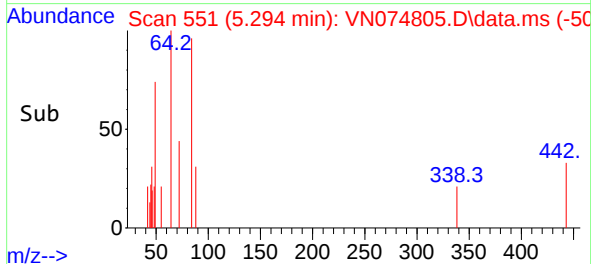
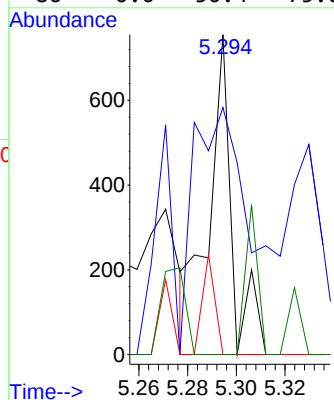
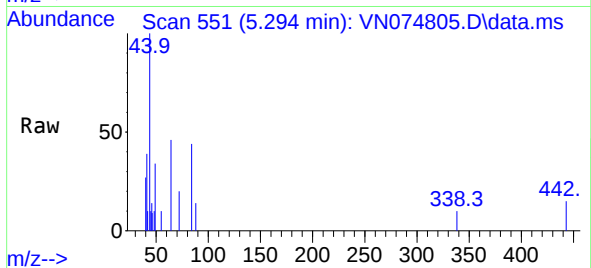




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.294 min Scan# 51  
Delta R.T. -0.001 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

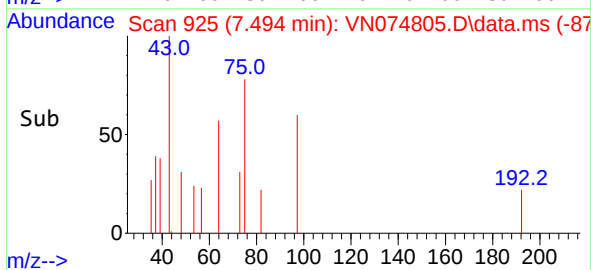
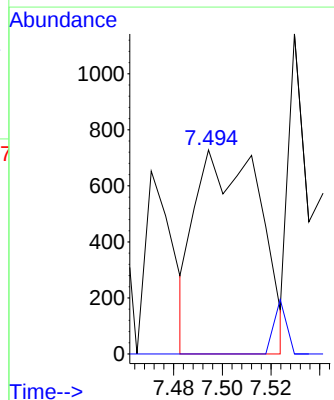
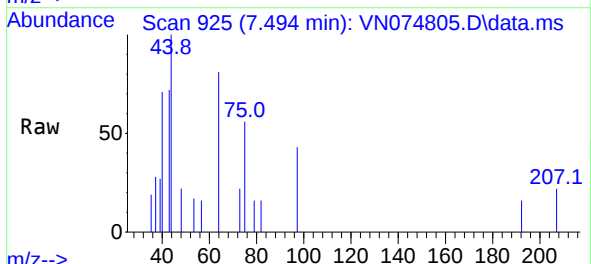
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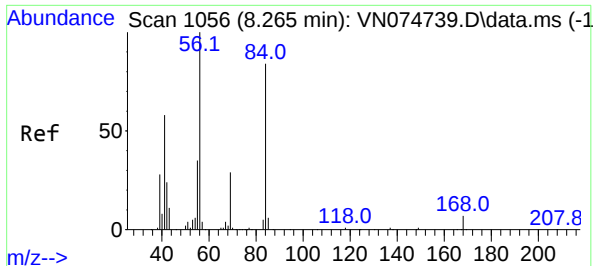
Tgt Ion: 84 Resp: 501  
Ion Ratio Lower Upper  
84 100  
49 77.2 107.4 161.0#  
51 0.0 35.1 52.7#  
86 0.0 50.4 75.6#



#25  
2-Butanone  
Concen: 0.217 ug/l  
RT: 7.494 min Scan# 925  
Delta R.T. -0.006 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 43 Resp: 1333  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.4 32.0#

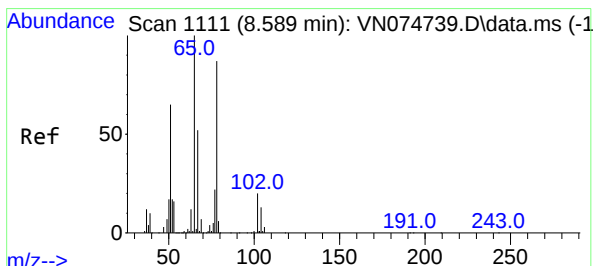
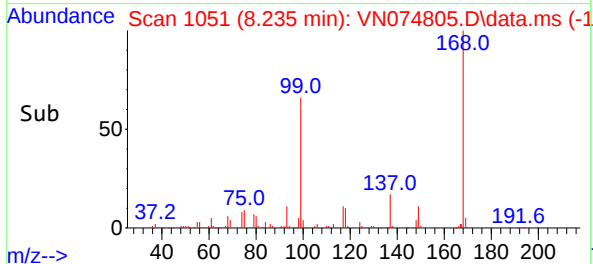
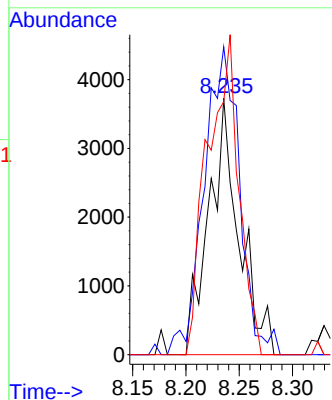
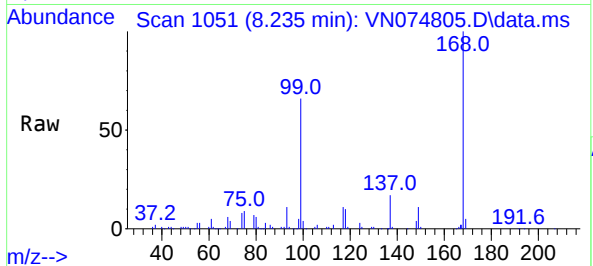




#31  
Cyclohexane  
Concen: 0.714 ug/l  
RT: 8.235 min Scan# 1051  
Delta R.T. -0.030 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

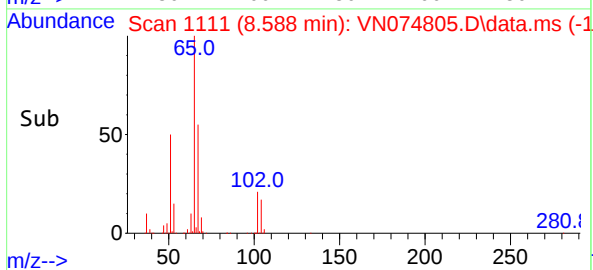
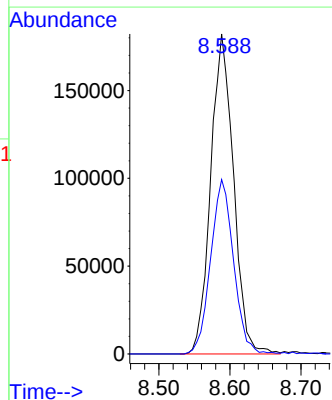
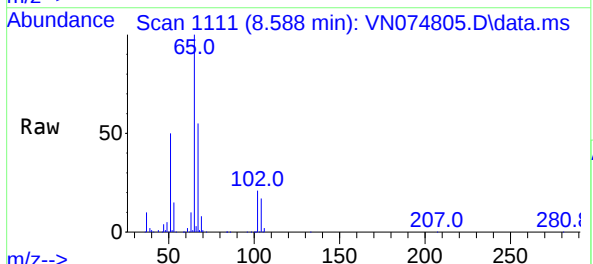
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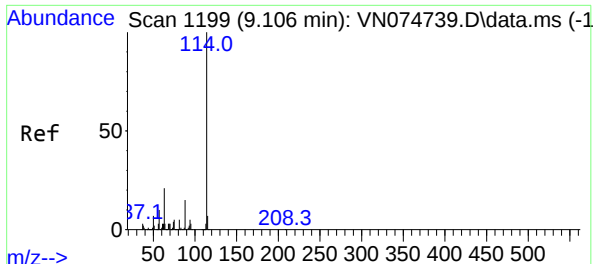
Tgt Ion: 56 Resp: 7359  
Ion Ratio Lower Upper  
56 100  
69 120.0 23.1 34.7#  
84 98.6 67.1 100.7



#33  
1,2-Dichloroethane-d4  
Concen: 68.023 ug/l  
RT: 8.588 min Scan# 1111  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 65 Resp: 405897  
Ion Ratio Lower Upper  
65 100  
67 54.9 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN074805.D

Acq: 07 Oct 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

257248-6

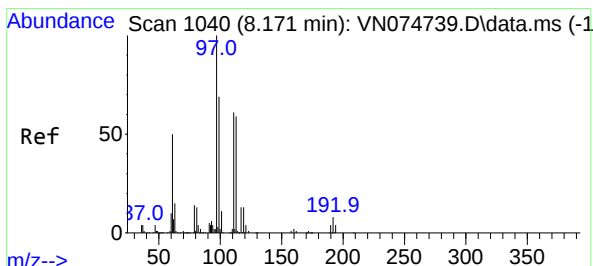
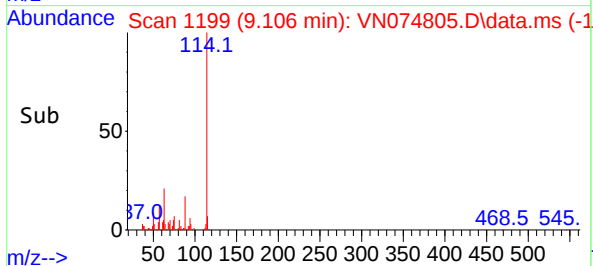
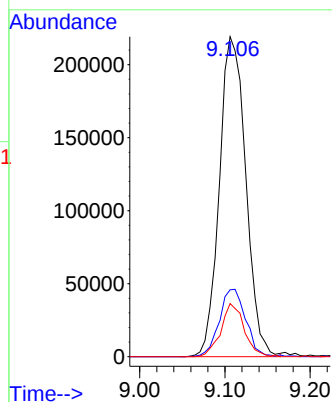
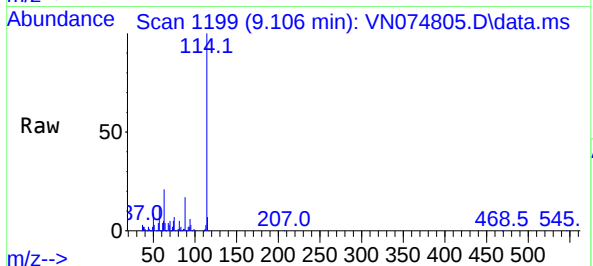
Tgt Ion:114 Resp: 472108

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.2

88 16.6 0.0 30.2



#35

Dibromofluoromethane

Concen: 66.897 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN074805.D

Acq: 07 Oct 2022 12:42

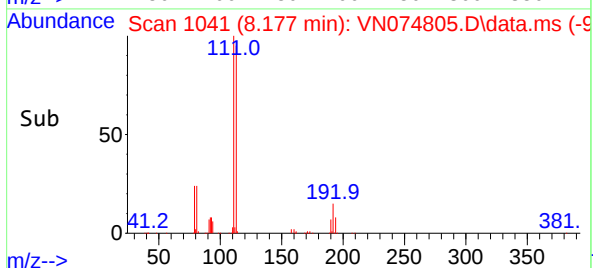
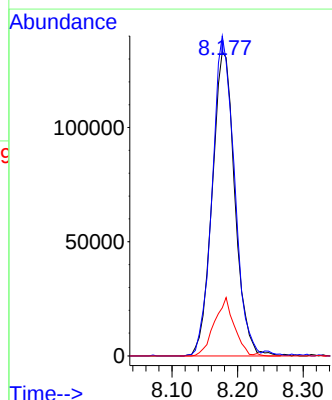
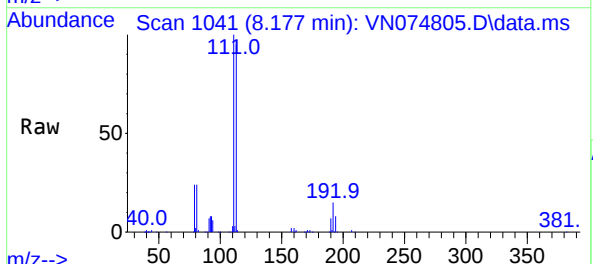
Tgt Ion:113 Resp: 319098

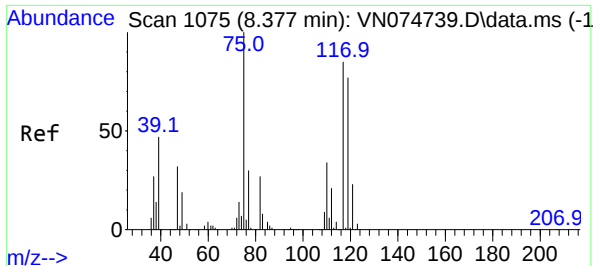
Ion Ratio Lower Upper

113 100

111 103.6 83.0 124.6

192 17.0 12.6 18.8





#36

1,1-Dichloropropene

Concen: 2.852 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN074805.D

Acq: 07 Oct 2022 12:42

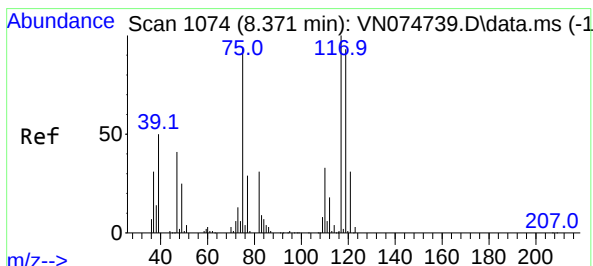
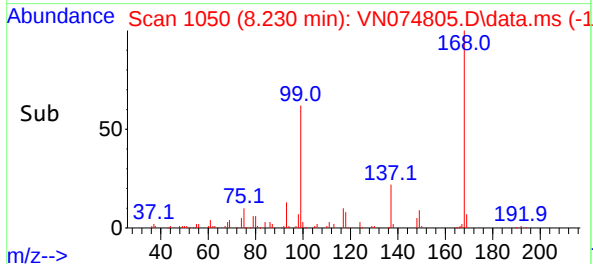
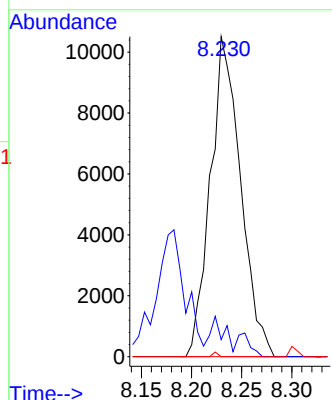
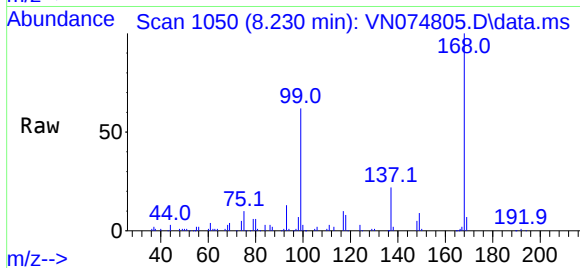
Instrument :

MSVOA\_N

ClientSampleId :

257248-6

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 22020 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 4.9   | 17.2  | 51.5# |
| 77       | 0.2   | 24.3  | 36.5# |



#38

Carbon Tetrachloride

Concen: 3.651 ug/l

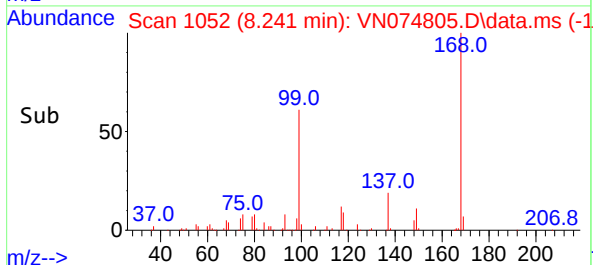
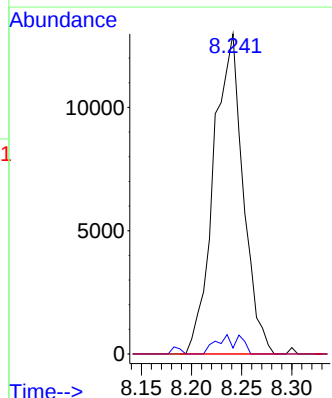
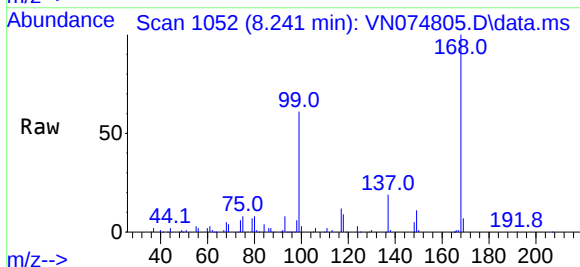
RT: 8.241 min Scan# 1052

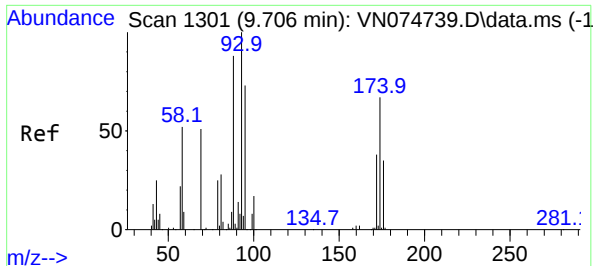
Delta R.T. -0.130 min

Lab File: VN074805.D

Acq: 07 Oct 2022 12:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 26583  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 1.9   | 74.3  | 111.5# |
| 121      | 0.0   | 25.0  | 37.4#  |

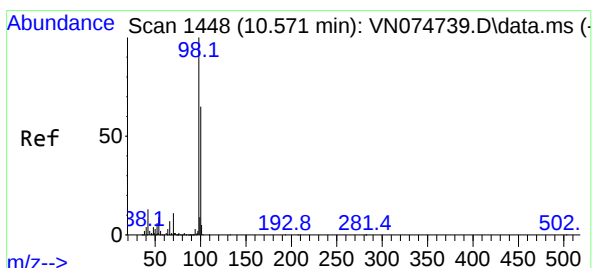
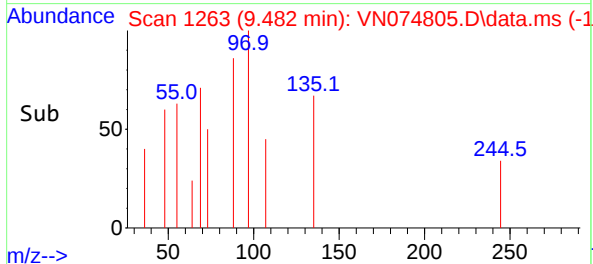
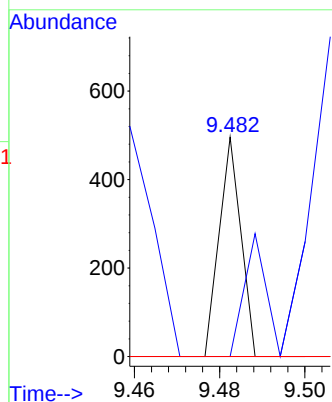
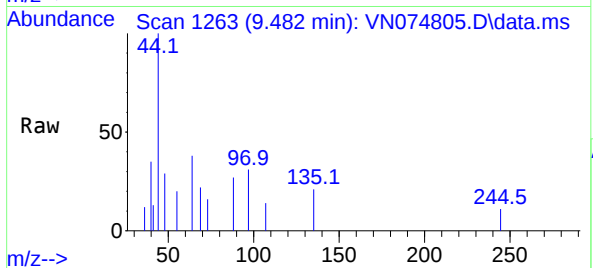




#49  
1,4-Dioxane  
Concen: 1.028 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. -0.224 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

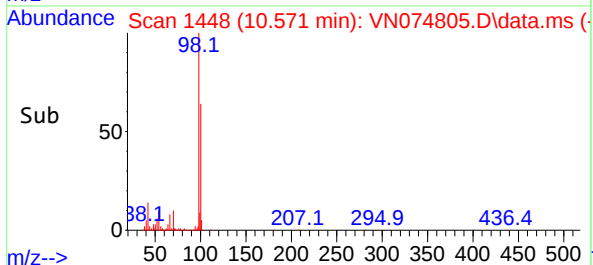
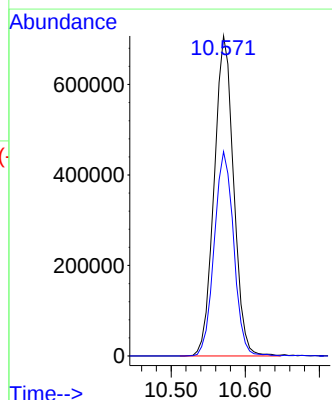
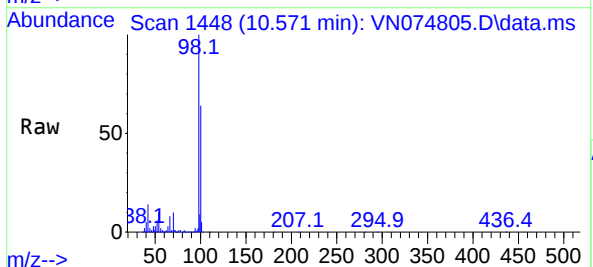
Instrument :  
MSVOA\_N  
ClientSampleId :  
257248-6

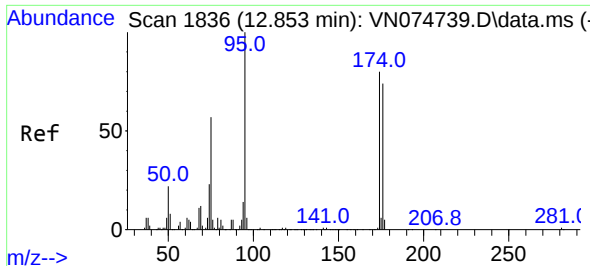
Tgt Ion: 88 Resp: 175  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.4 35.2#  
58 0.0 54.9 82.3#



#50  
Toluene-d8  
Concen: 63.153 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 98 Resp: 1292571  
Ion Ratio Lower Upper  
98 100  
100 63.5 50.7 76.1

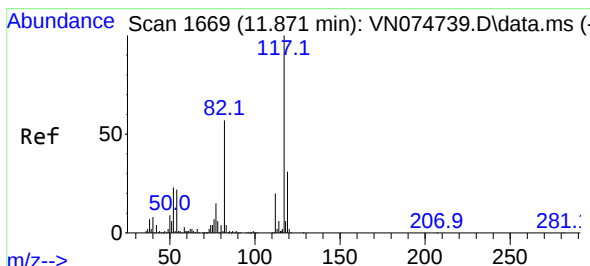
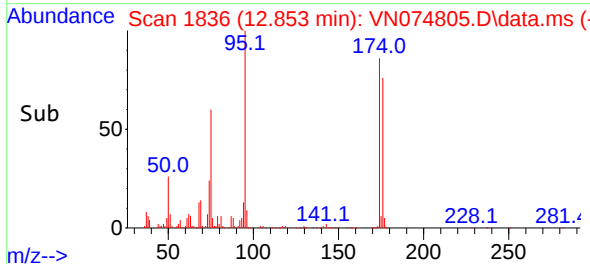
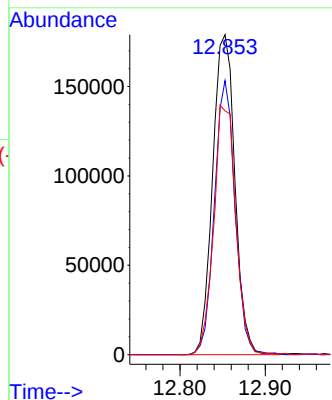
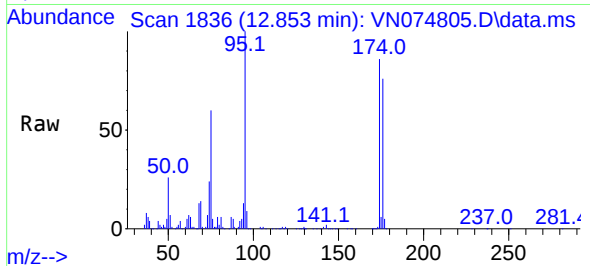




#62  
4-Bromofluorobenzene  
Concen: 52.276 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

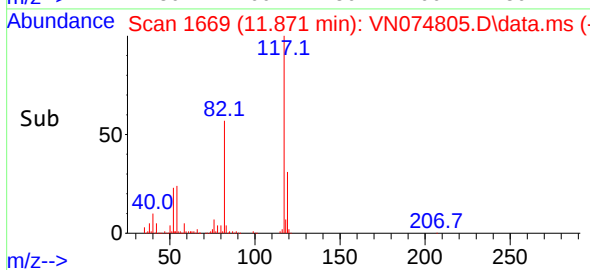
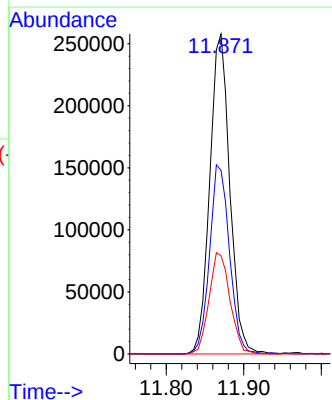
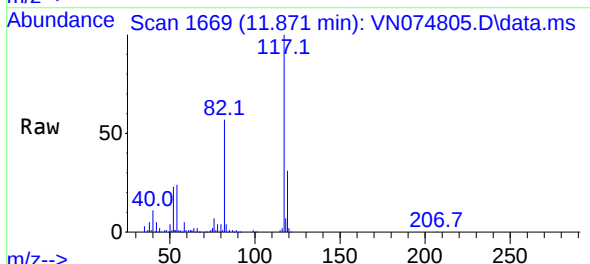
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257248-6

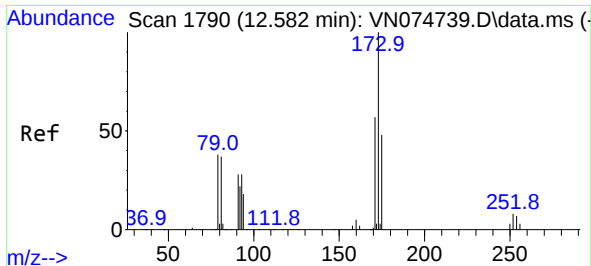
Tgt Ion: 95 Resp: 325251  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 149.4  
176 77.5 0.0 142.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 117 Resp: 462875  
Ion Ratio Lower Upper  
117 100  
82 57.4 45.4 68.2  
119 30.7 25.1 37.7

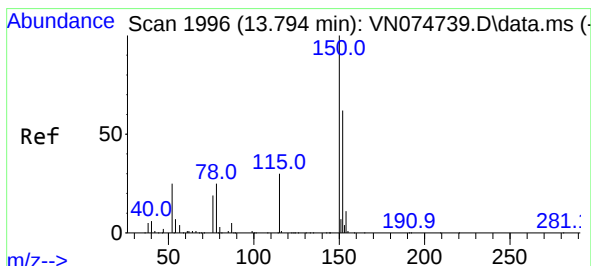
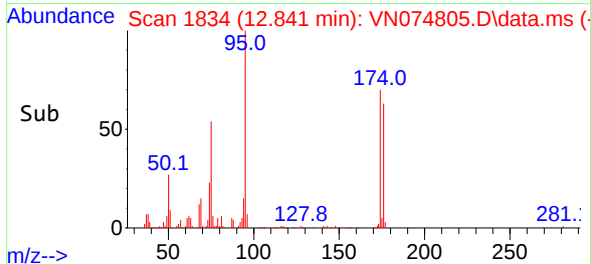
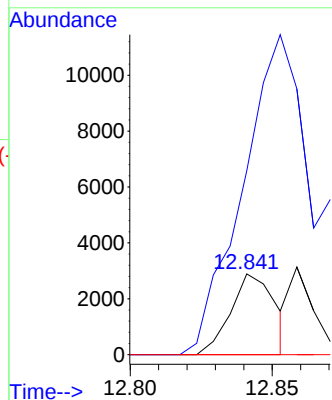
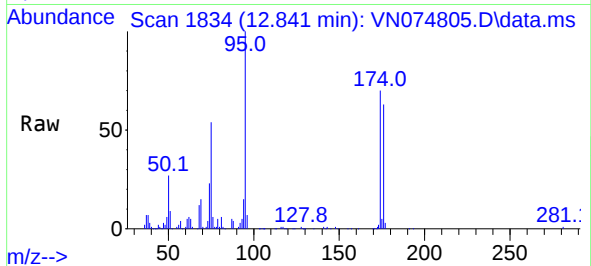




#71  
Bromoform  
Concen: 0.796 ug/l  
RT: 12.841 min Scan# 1834  
Delta R.T. 0.259 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

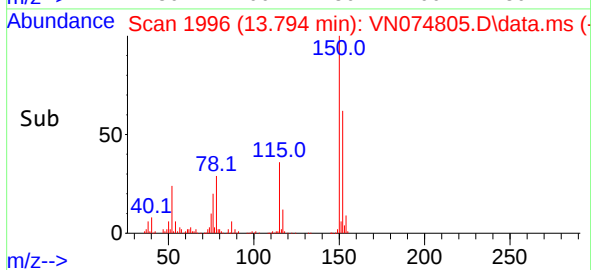
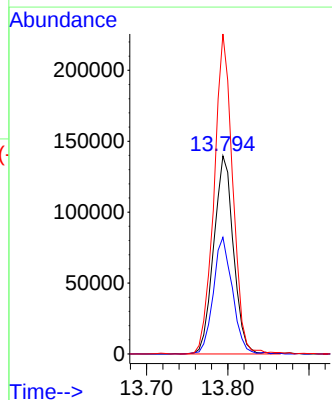
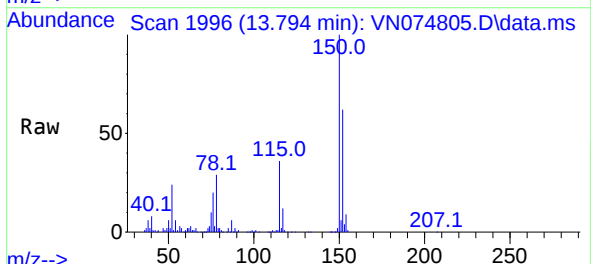
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ClientSampleId :  
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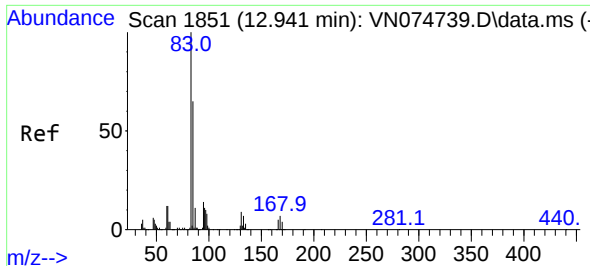
Tgt Ion:173 Resp: 3143  
Ion Ratio Lower Upper  
173 100  
175 498.9 23.9 71.7#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion:152 Resp: 235753  
Ion Ratio Lower Upper  
152 100  
115 56.8 30.0 90.0  
150 153.2 0.0 356.4

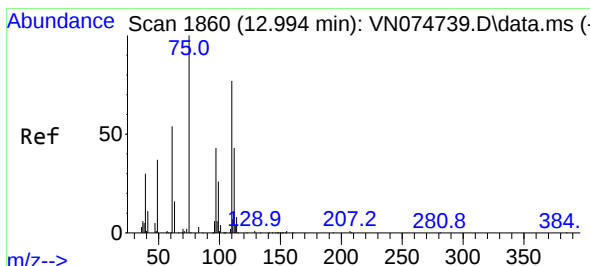
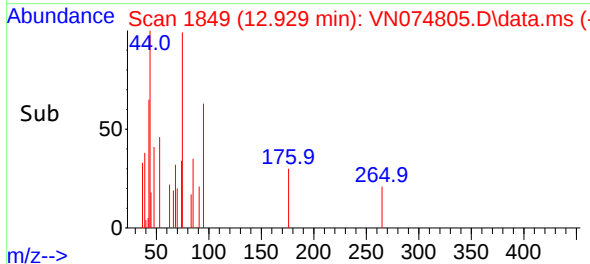
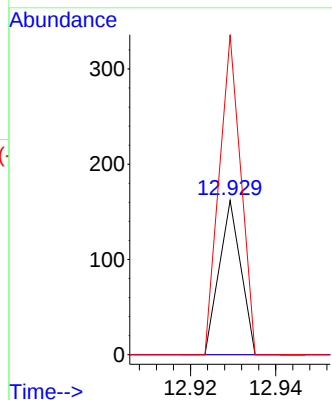
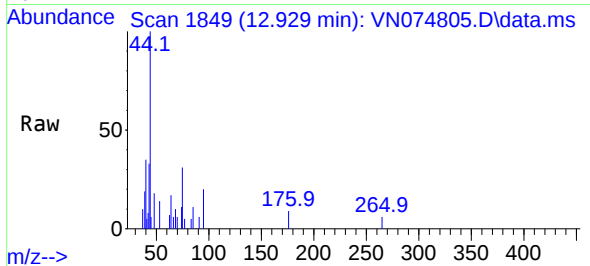




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.929 min Scan# 1849  
Delta R.T. -0.012 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

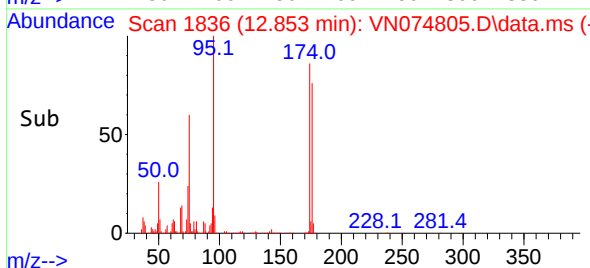
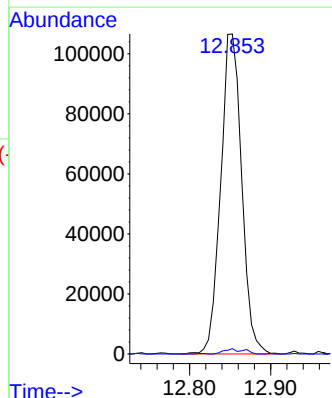
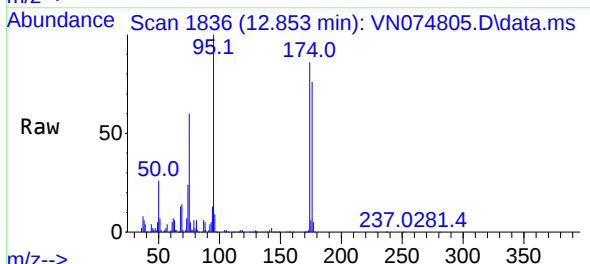
Instrument :  
MSVOA\_N  
ClientSampleId :  
257248-6

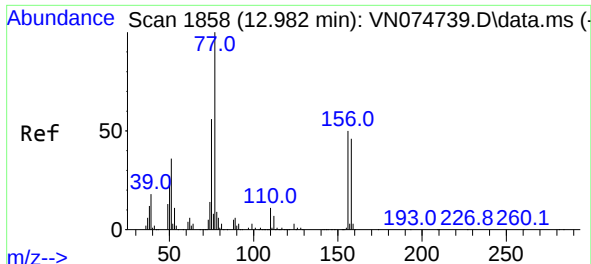
Tgt Ion: 83 Resp: 57  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.3 12.8#  
85 208.8 32.9 98.6#



#76  
1,2,3-Trichloropropane  
Concen: 27.258 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 75 Resp: 191802  
Ion Ratio Lower Upper  
75 100  
77 1.5 76.9 230.7#

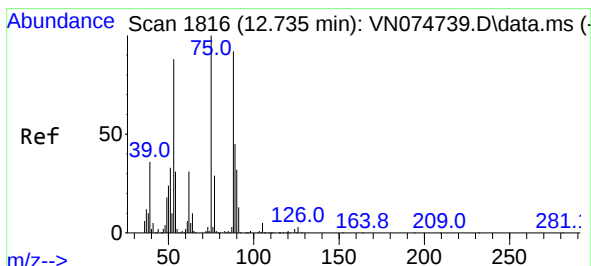
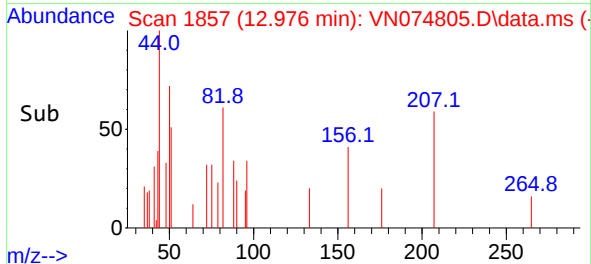
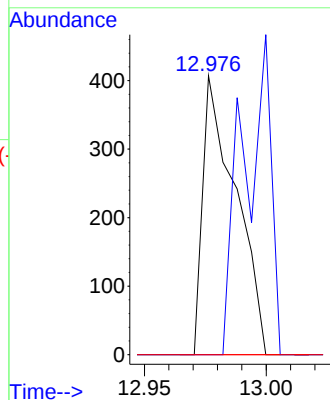
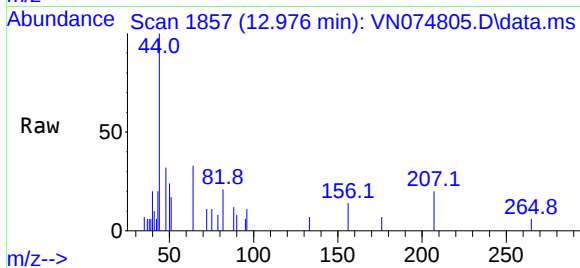




#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.976 min Scan# 1857  
Delta R.T. -0.006 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

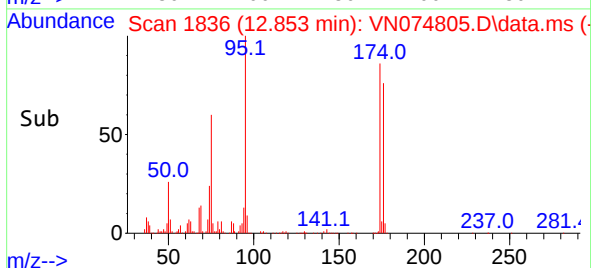
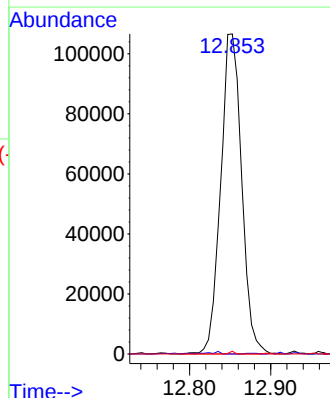
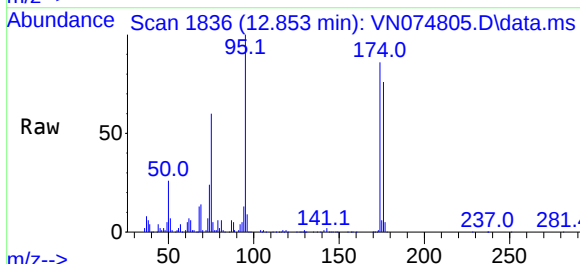
Instrument :  
MSVOA\_N  
ClientSampleId :  
257248-6

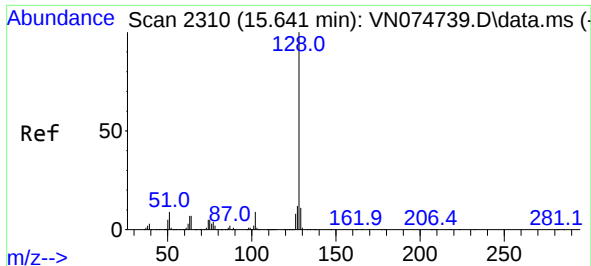
Tgt Ion:156 Resp: 381  
Ion Ratio Lower Upper  
156 100  
77 0.0 124.7 374.1#  
158 0.0 48.3 144.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 53.108 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.117 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion: 75 Resp: 191802  
Ion Ratio Lower Upper  
75 100  
53 0.4 71.4 107.0#  
89 0.2 32.1 48.1#

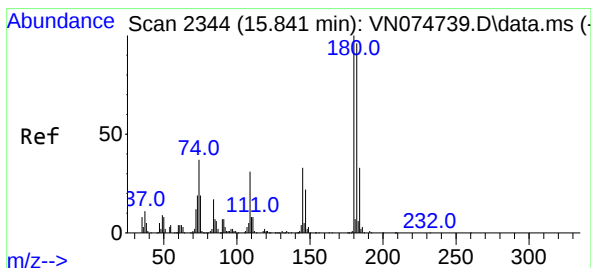
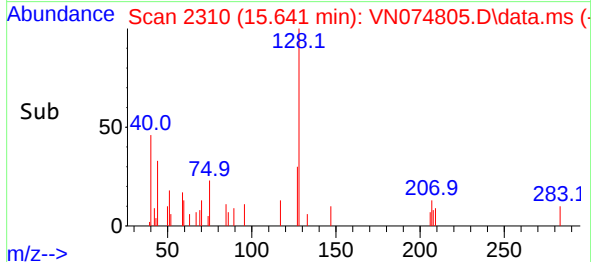
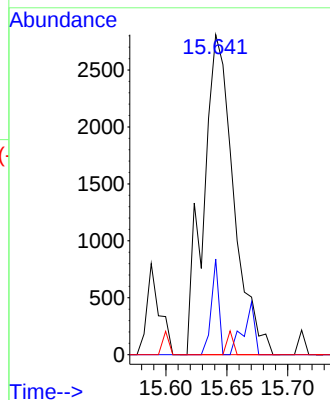
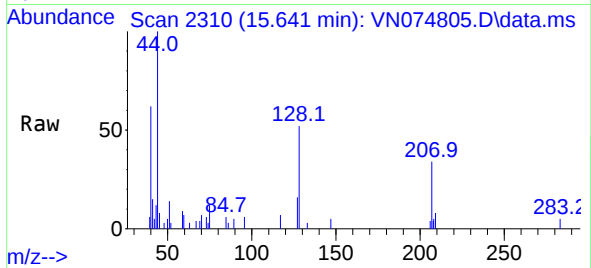




#95  
Naphthalene  
Concen: 0.296 ug/l  
RT: 15.641 min Scan# 2310  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
257248-6

Tgt Ion:128 Resp: 4842  
Ion Ratio Lower Upper  
128 100  
127 7.4 10.2 15.2#  
129 1.5 9.0 13.4#



#96  
1,2,3-Trichlorobenzene  
Concen: Below Cal  
RT: 15.841 min Scan# 2344  
Delta R.T. -0.000 min  
Lab File: VN074805.D  
Acq: 07 Oct 2022 12:42

Tgt Ion:180 Resp: 391  
Ion Ratio Lower Upper  
180 100  
182 159.3 47.3 142.0#  
145 16.9 17.1 51.2#

