

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
 Data File : VN074697.D  
 Acq On : 01 Oct 2022 08:02  
 Operator : JC\MD  
 Sample : N4882-09  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 03 02:13:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 30 07:44:59 2022  
 Response via : Initial Calibration

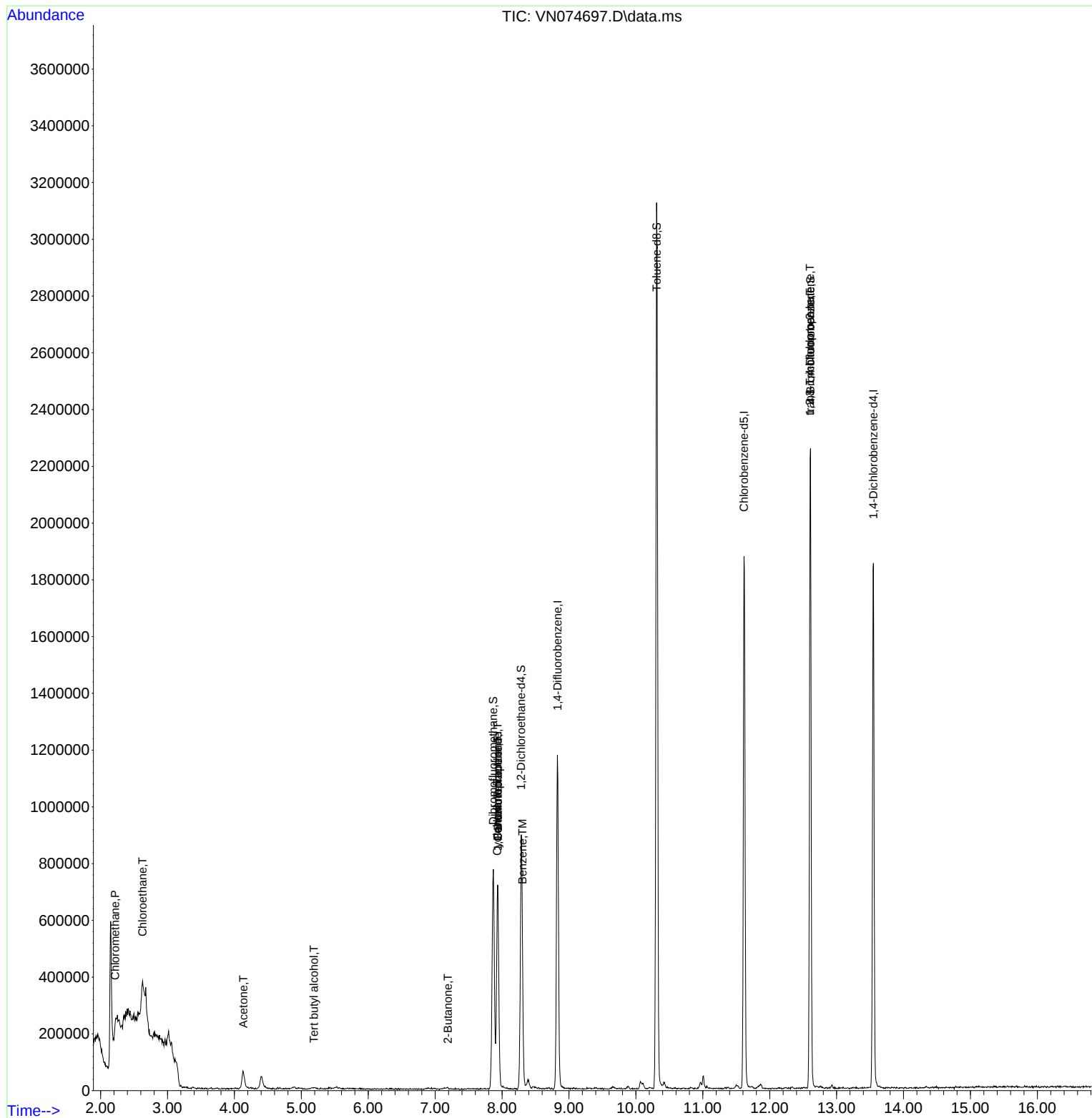
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.933  | 168   | 524321   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.827  | 114   | 980159   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.615 | 117   | 1006500  | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.551 | 152   | 447972   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.286  | 65    | 673310   | 51.239    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 102.480% |          |
| 35) Dibromofluoromethane      | 7.869  | 113   | 537976   | 51.855    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 103.720% |          |
| 50) Toluene-d8                | 10.310 | 98    | 2076257  | 47.579    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 95.160%  |          |
| 62) 4-Bromofluorobenzene      | 12.610 | 95    | 661269   | 47.789    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 95.580%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.216  | 50    | 6254     | 0.389     | ug/l #     | 64       |
| 6) Chloroethane               | 2.628  | 64    | 80291    | 4.481     | ug/l #     | 55       |
| 8) Diethyl Ether              | 3.698  | 74    | 83       | Below Cal | #          | 7        |
| 11) Tert butyl alcohol        | 5.186  | 59    | 5757     | 1.640     | ug/l #     | 80       |
| 13) Acrolein                  | 3.887  | 56    | 66       | Below Cal | #          | 16       |
| 16) Acetone                   | 4.134  | 43    | 101668   | 10.592    | ug/l       | 92       |
| 20) Methylene Chloride        | 4.881  | 84    | 383      | Below Cal | #          | 17       |
| 25) 2-Butanone                | 7.192  | 43    | 6955     | 0.575     | ug/l       | 99       |
| 31) Cyclohexane               | 7.927  | 56    | 9370     | 0.439     | ug/l #     | 55       |
| 36) 1,1-Dichloropropene       | 7.939  | 75    | 48537    | 2.921     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.933  | 117   | 53273    | 3.500     | ug/l #     | 16       |
| 40) Benzene                   | 8.304  | 78    | 13131    | 0.256     | ug/l #     | 76       |
| 74) N-amyl acetate            | 12.262 | 43    | 935      | Below Cal | #          | 42       |
| 75) 1,1,2,2-Tetrachloroethane | 12.698 | 83    | 133      | Below Cal | #          | 25       |
| 76) 1,2,3-Trichloropropane    | 12.604 | 75    | 404199   | 39.887    | ug/l #     | 1        |
| 77) Bromobenzene              | 12.604 | 156   | 188      | Below Cal | #          | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.604 | 75    | 404199   | 75.401    | ug/l #     | 11       |
| 94) Hexachlorobutadiene       | 15.227 | 225   | 66       | Below Cal | #          | 18       |
| -----                         |        |       |          |           |            |          |

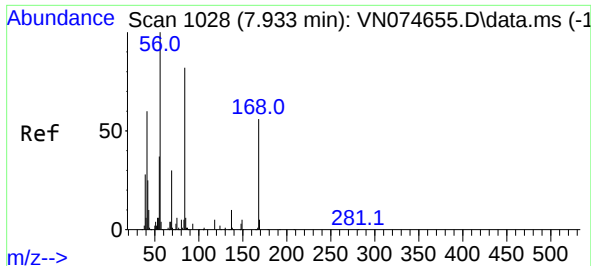
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 03 02:13:01 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 30 07:44:59 2022  
Response via : Initial Calibration

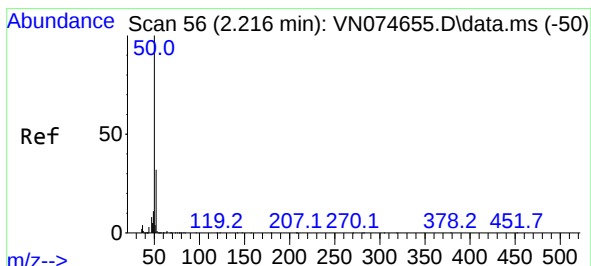
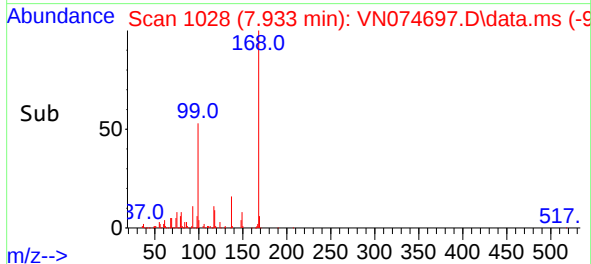
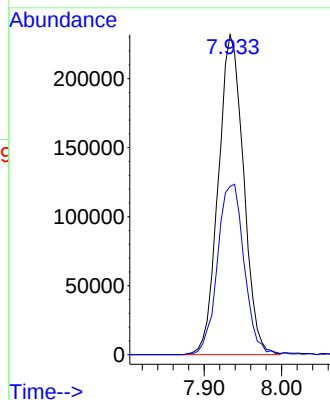
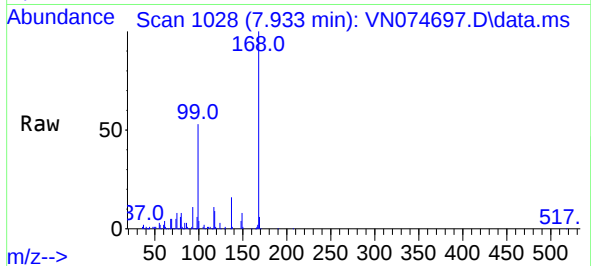




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. 0.000 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

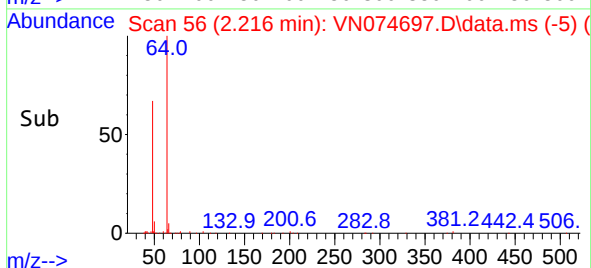
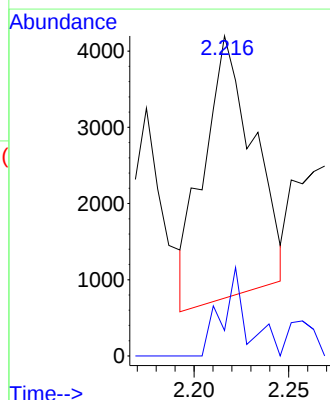
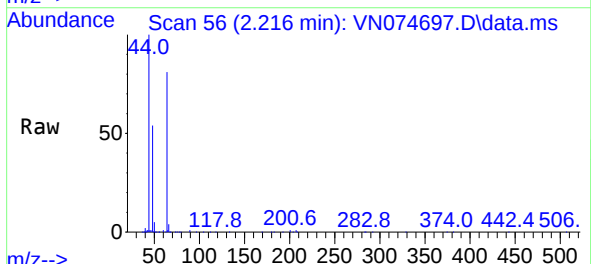
Instrument :  
MSVOA\_N  
ClientSampleId :

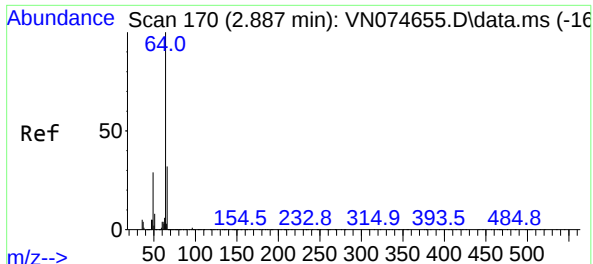
Tgt Ion:168 Resp: 524321  
Ion Ratio Lower Upper  
168 100  
99 52.6 42.3 63.5



#3  
Chloromethane  
Concen: 0.389 ug/l  
RT: 2.216 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Tgt Ion: 50 Resp: 6254  
Ion Ratio Lower Upper  
50 100  
52 11.9 25.7 38.5#

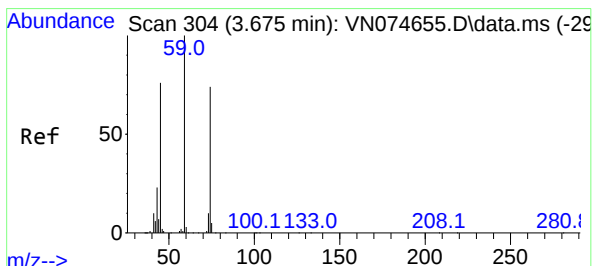
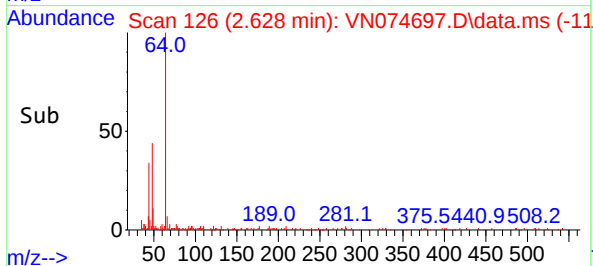
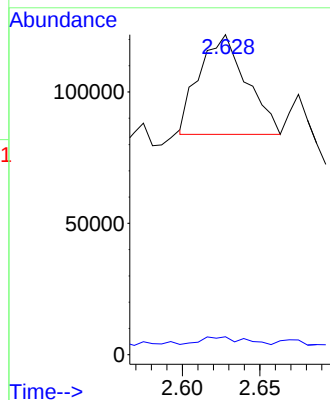
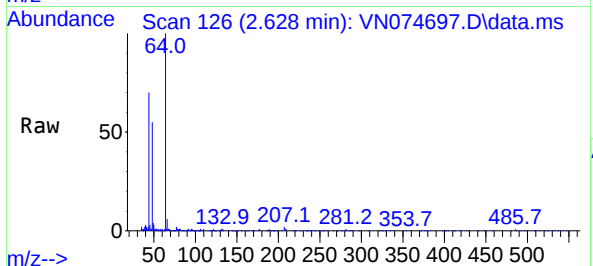




#6  
Chloroethane  
Concen: 4.481 ug/l  
RT: 2.628 min Scan# 11  
Delta R.T. -0.259 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

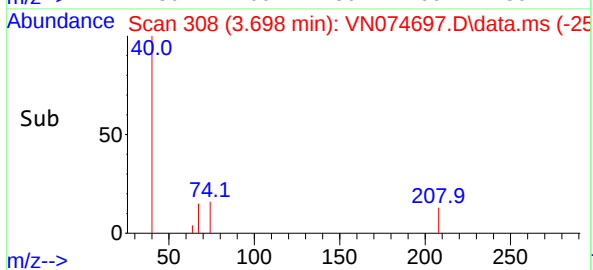
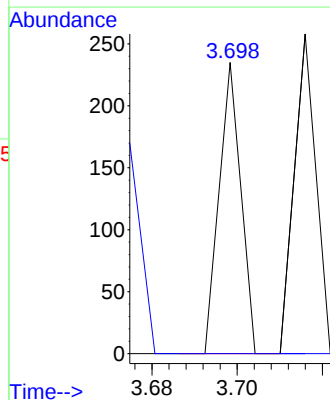
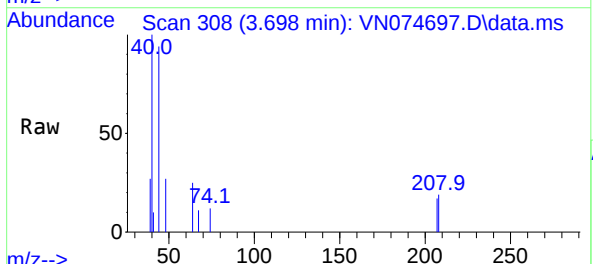
Instrument :  
MSVOA\_N  
ClientSampleId :

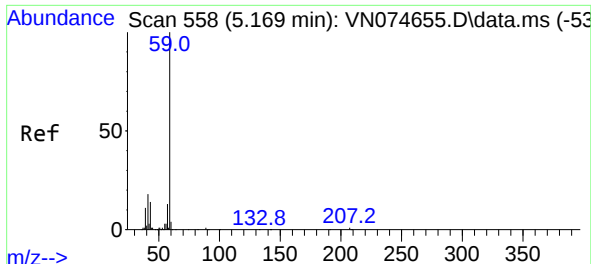
Tgt Ion: 64 Resp: 80291  
Ion Ratio Lower Upper  
64 100  
66 7.7 26.2 39.4#



#8  
Diethyl Ether  
Concen: Below Cal  
RT: 3.698 min Scan# 308  
Delta R.T. 0.023 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

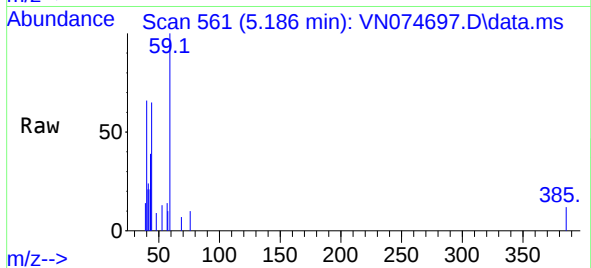
Tgt Ion: 74 Resp: 83  
Ion Ratio Lower Upper  
74 100  
45 0.0 42.9 128.5#



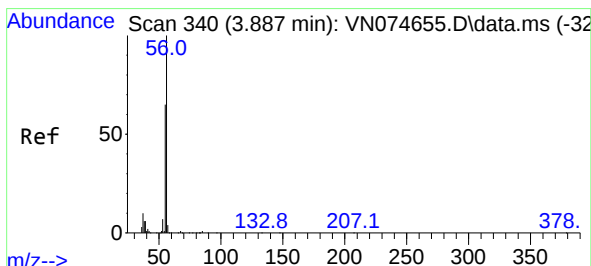
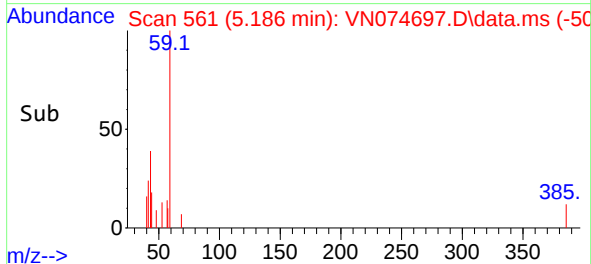
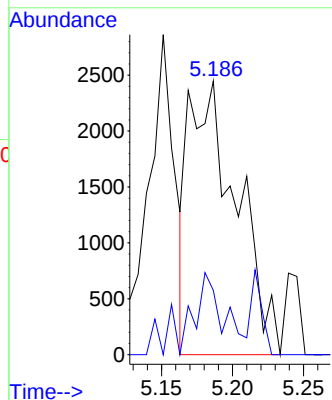


#11  
Tert butyl alcohol  
Concen: 1.640 ug/l  
RT: 5.186 min Scan# 50  
Delta R.T. 0.017 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Instrument :  
MSVOA\_N  
ClientSampleId :

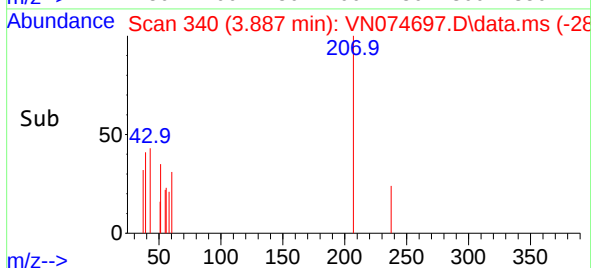
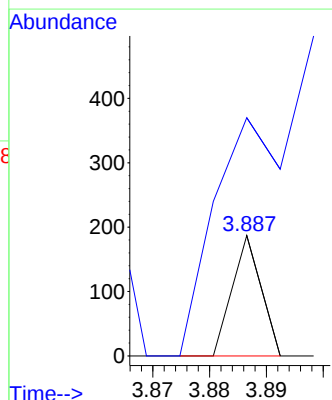
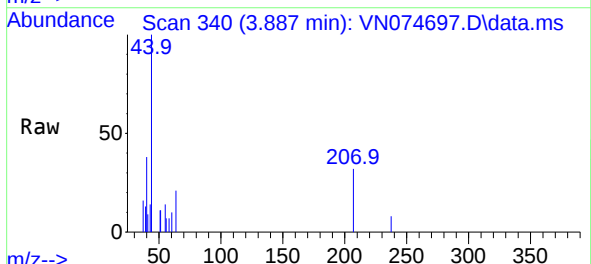


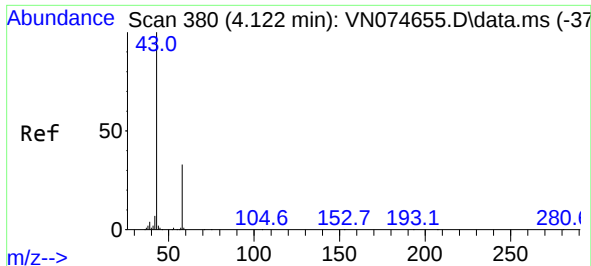
Tgt Ion: 59 Resp: 5757  
Ion Ratio Lower Upper  
59 100  
57 18.0 8.3 12.5#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.887 min Scan# 340  
Delta R.T. -0.000 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Tgt Ion: 56 Resp: 66  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.8 82.2#

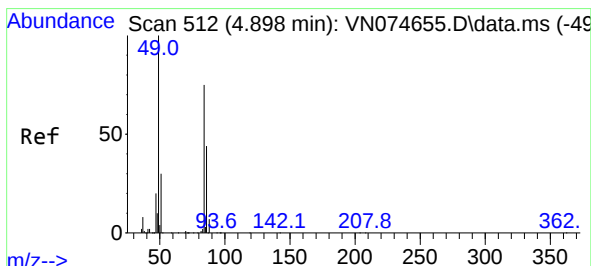
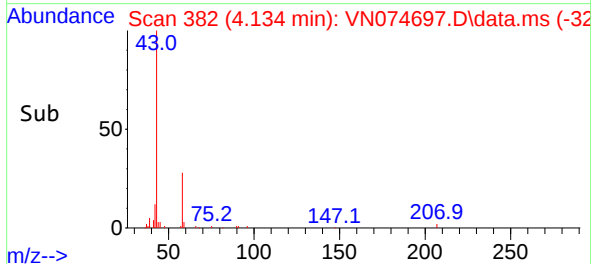
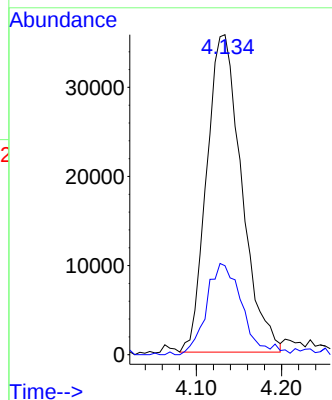
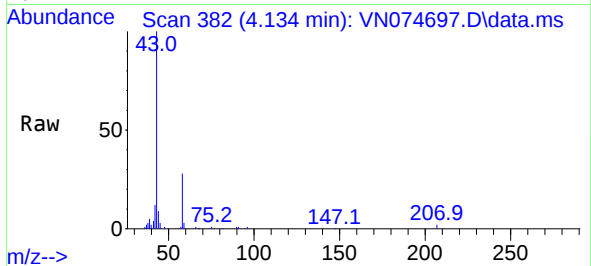




#16  
Acetone  
Concen: 10.592 ug/l  
RT: 4.134 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

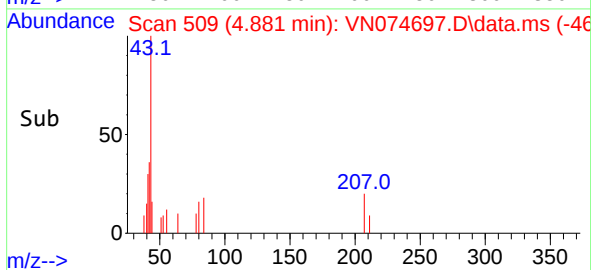
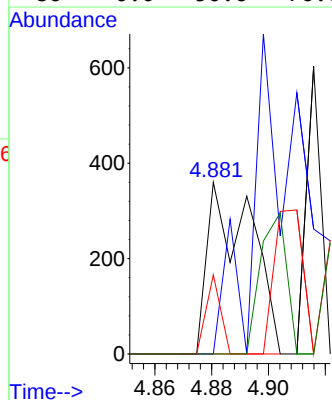
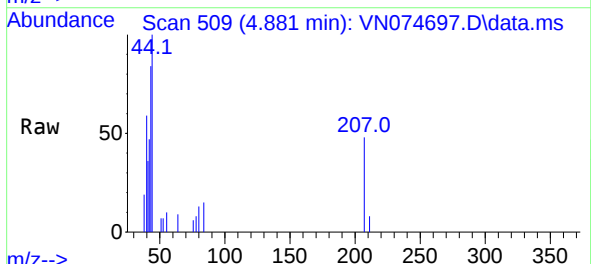
Instrument :  
MSVOA\_N  
ClientSampleId :

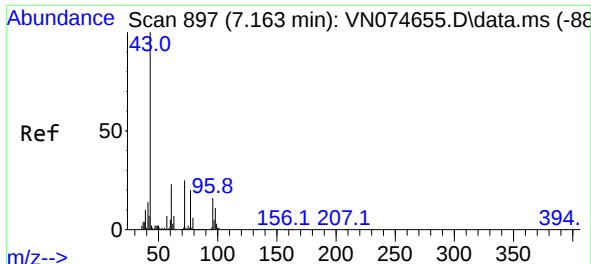
Tgt Ion: 43 Resp: 101668  
Ion Ratio Lower Upper  
43 100  
58 28.0 26.0 39.0



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.881 min Scan# 509  
Delta R.T. -0.017 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Tgt Ion: 84 Resp: 383  
Ion Ratio Lower Upper  
84 100  
49 0.0 88.3 132.5#  
51 46.1 28.2 42.2#  
86 0.0 50.6 76.0#

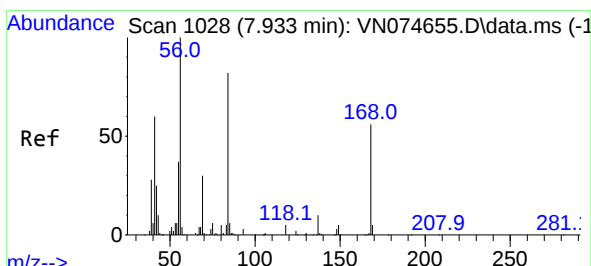
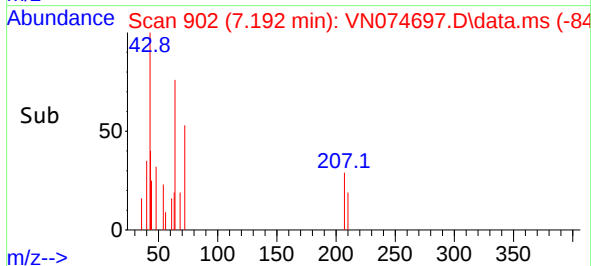
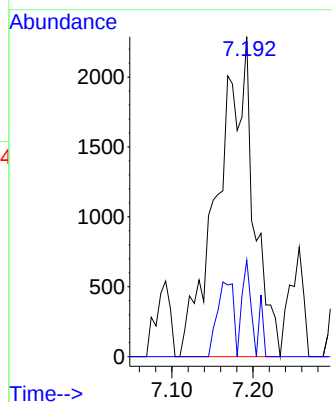
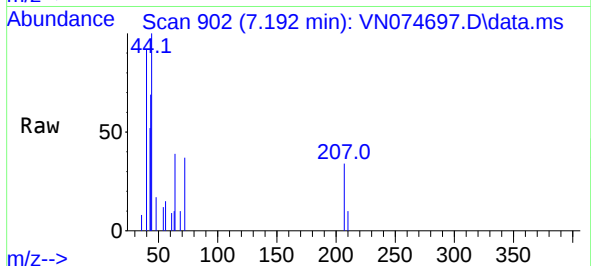




#25  
2-Butanone  
Concen: 0.575 ug/l  
RT: 7.192 min Scan# 90  
Delta R.T. 0.029 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

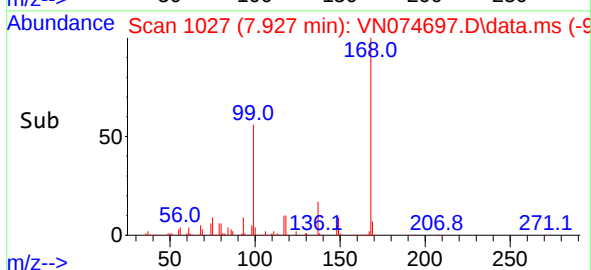
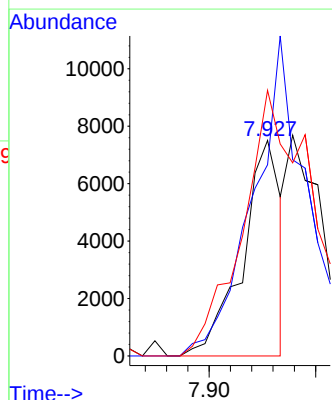
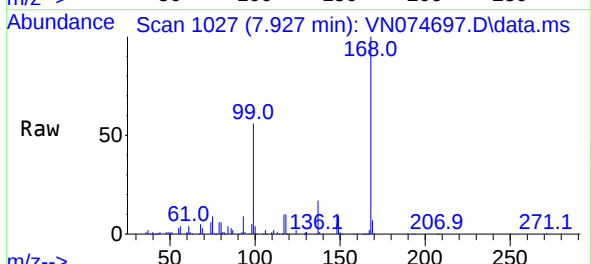
Instrument :  
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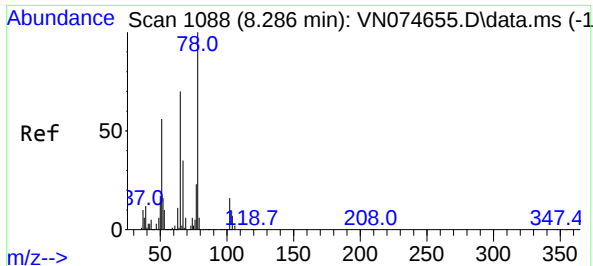
Tgt Ion: 43 Resp: 6955  
Ion Ratio Lower Upper  
43 100  
72 30.2 23.7 35.5



#31  
Cyclohexane  
Concen: 0.439 ug/l  
RT: 7.927 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Tgt Ion: 56 Resp: 9370  
Ion Ratio Lower Upper  
56 100  
69 88.7 27.8 41.8#  
84 123.3 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 51.239 ug/l

RT: 8.286 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN074697.D

Acq: 01 Oct 2022 08:02

Instrument :

MSVOA\_N

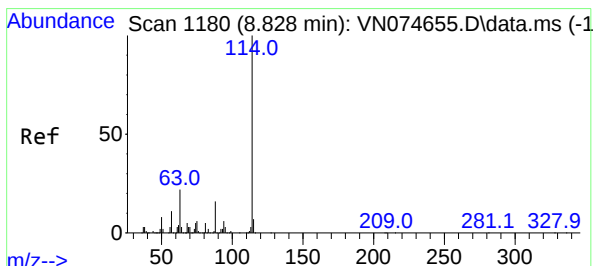
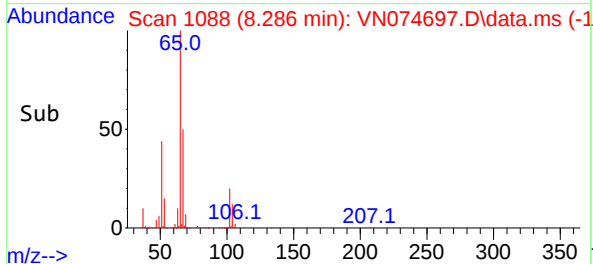
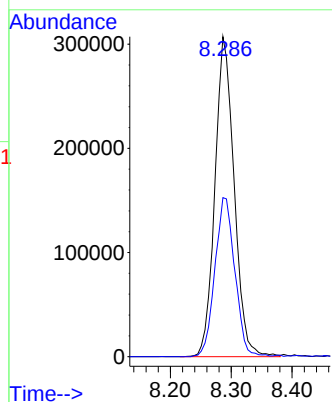
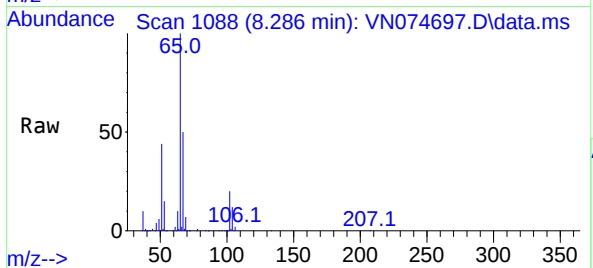
ClientSampleId :

Tgt Ion: 65 Resp: 673310

Ion Ratio Lower Upper

65 100

67 51.5 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.827 min Scan# 1180

Delta R.T. -0.001 min

Lab File: VN074697.D

Acq: 01 Oct 2022 08:02

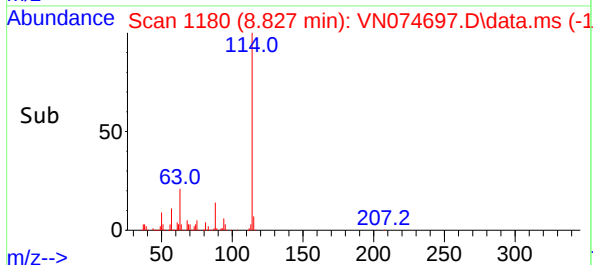
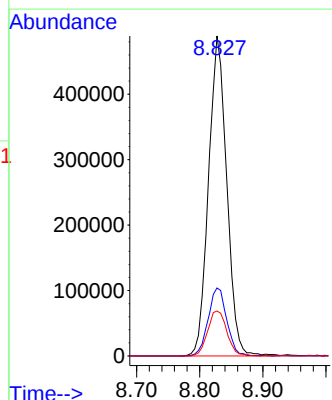
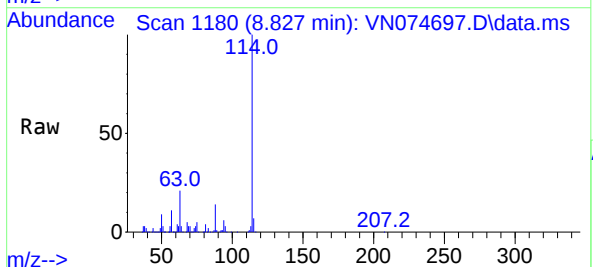
Tgt Ion:114 Resp: 980159

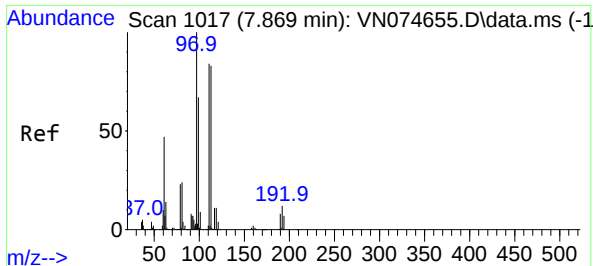
Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.0

88 14.0 0.0 32.6

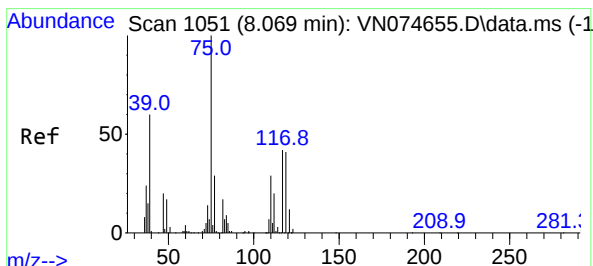
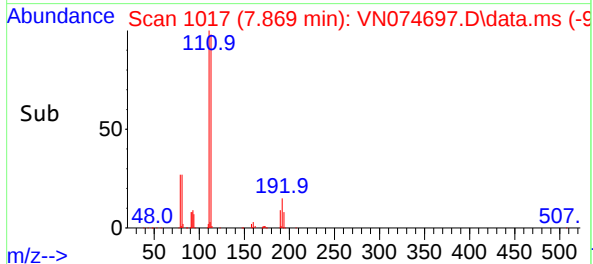
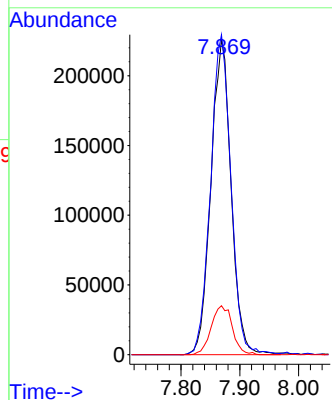
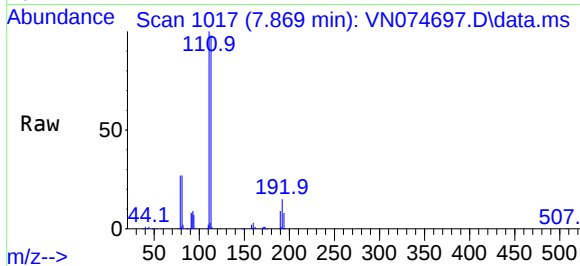




#35  
Dibromofluoromethane  
Concen: 51.855 ug/l  
RT: 7.869 min Scan# 1017  
Delta R.T. -0.000 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

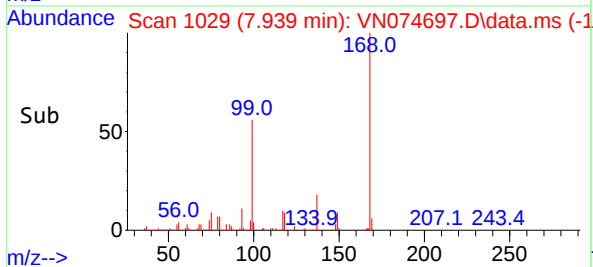
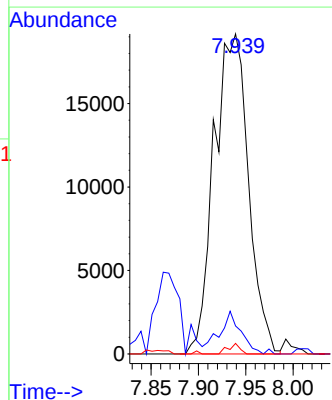
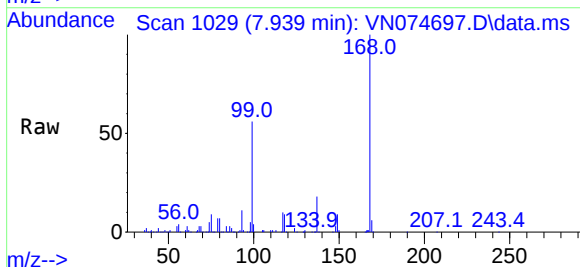
Instrument :  
MSVOA\_N  
ClientSampleId :

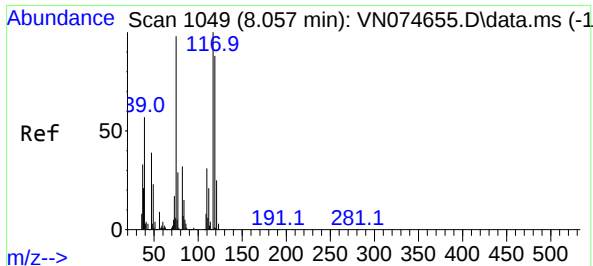
Tgt Ion:113 Resp: 537976  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.4 122.0  
192 16.3 17.0 25.6#



#36  
1,1-Dichloropropene  
Concen: 2.921 ug/l  
RT: 7.939 min Scan# 1029  
Delta R.T. -0.130 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

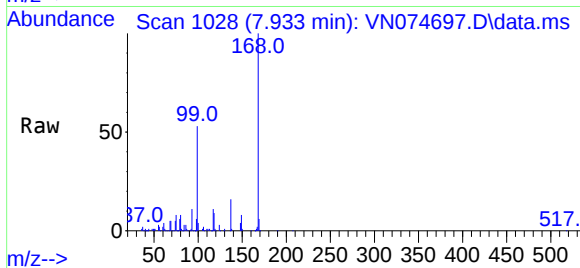
Tgt Ion: 75 Resp: 48537  
Ion Ratio Lower Upper  
75 100  
110 8.4 18.3 54.8#  
77 1.1 25.1 37.7#



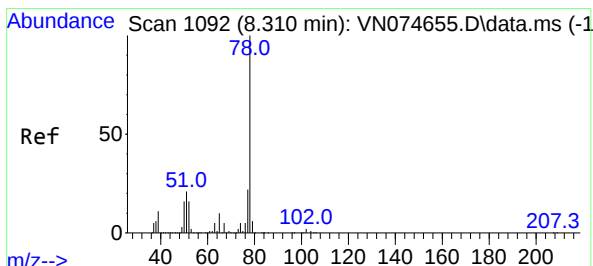
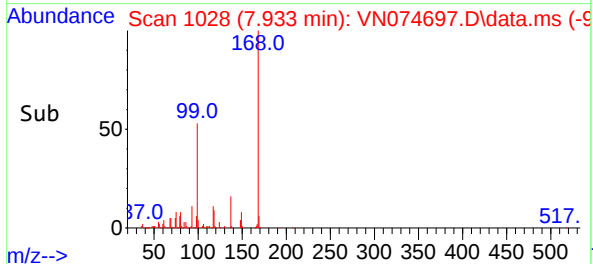
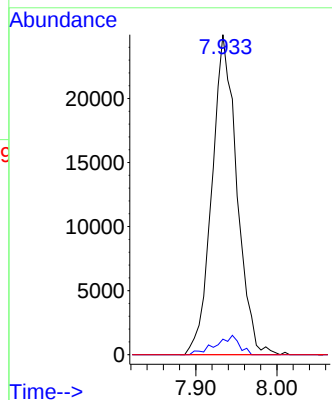


#38  
Carbon Tetrachloride  
Concen: 3.500 ug/l  
RT: 7.933 min Scan# 1049  
Delta R.T. -0.124 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Instrument :  
MSVOA\_N  
ClientSampleId :

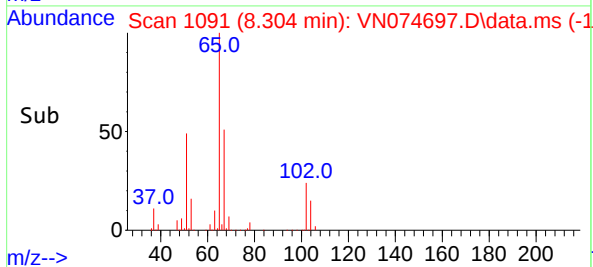
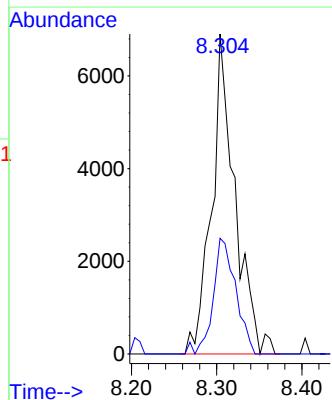
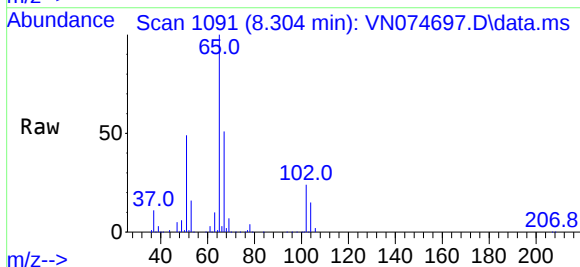


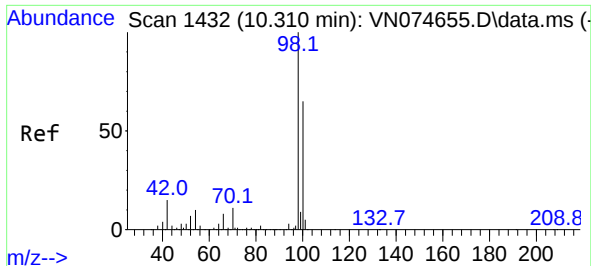
Tgt Ion:117 Resp: 53273  
Ion Ratio Lower Upper  
117 100  
119 4.8 75.8 113.8#  
121 0.0 24.6 37.0#



#40  
Benzene  
Concen: 0.256 ug/l  
RT: 8.304 min Scan# 1091  
Delta R.T. -0.006 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

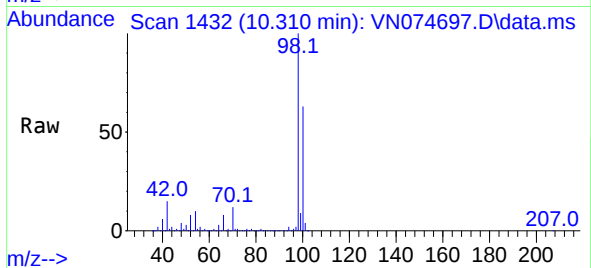
Tgt Ion: 78 Resp: 13131  
Ion Ratio Lower Upper  
78 100  
77 36.2 19.4 29.0#



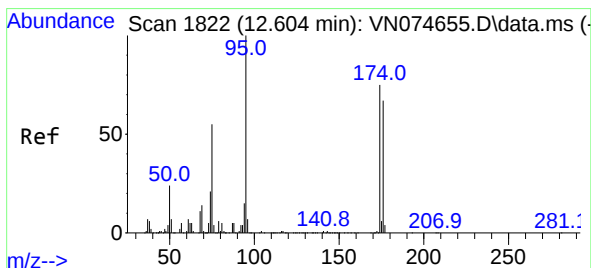
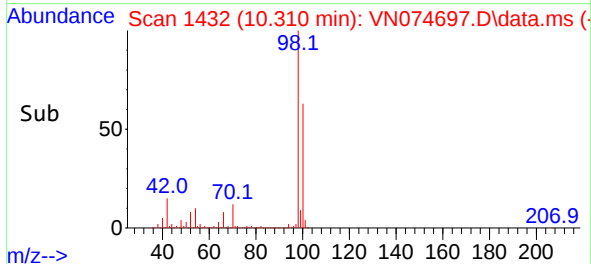
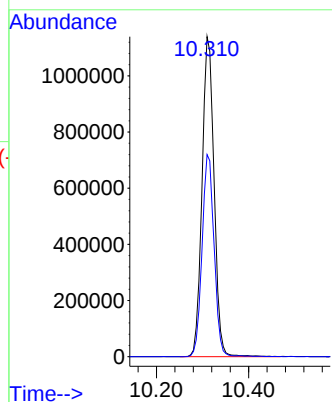


#50  
Toluene-d8  
Concen: 47.579 ug/l  
RT: 10.310 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Instrument :  
MSVOA\_N  
ClientSampleId :

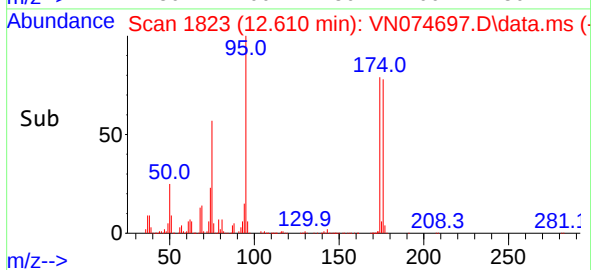
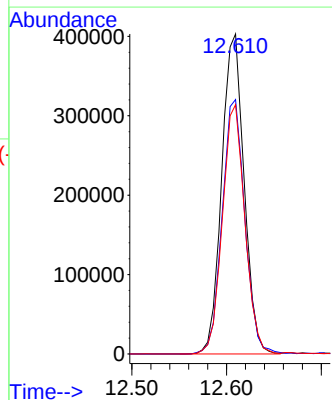
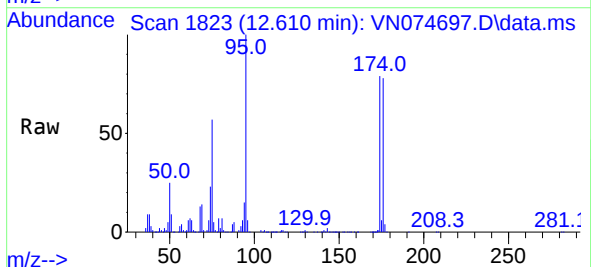


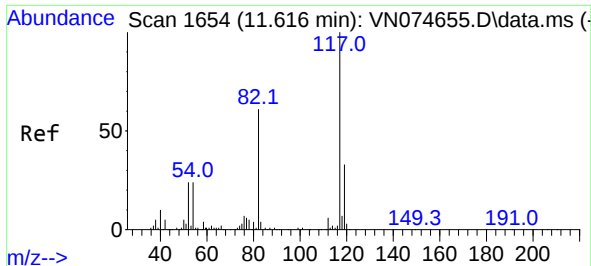
Tgt Ion: 98 Resp: 2076257  
Ion Ratio Lower Upper  
98 100  
100 63.2 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 47.789 ug/l  
RT: 12.610 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

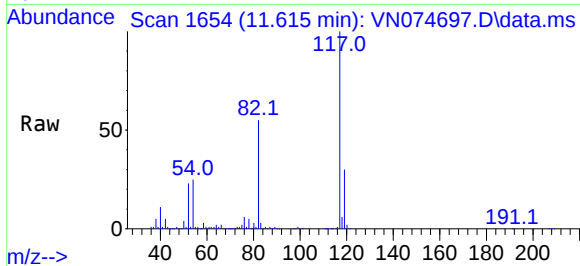
Tgt Ion: 95 Resp: 661269  
Ion Ratio Lower Upper  
95 100  
174 80.8 0.0 167.6  
176 78.1 0.0 163.4



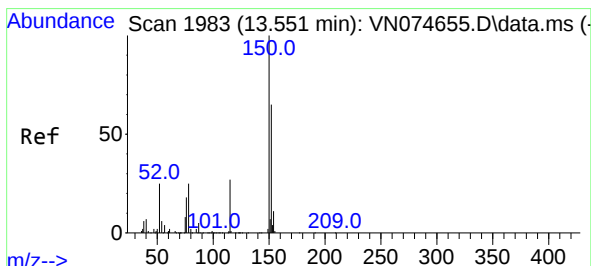
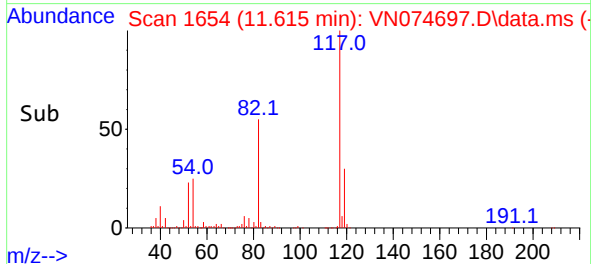
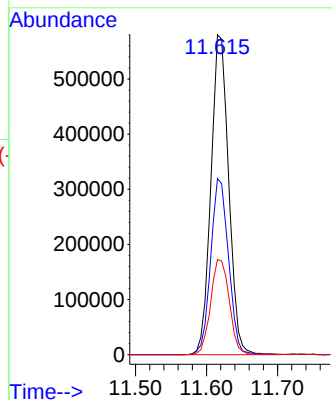


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.615 min Scan# 1  
Delta R.T. -0.001 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Instrument :  
MSVOA\_N  
ClientSampleId :

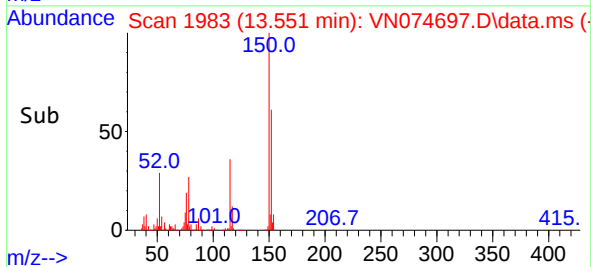
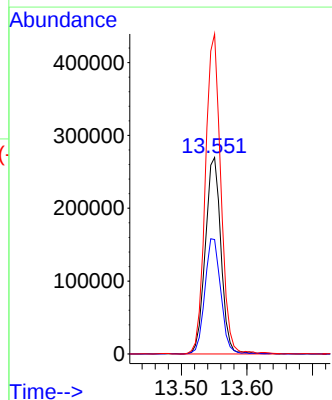
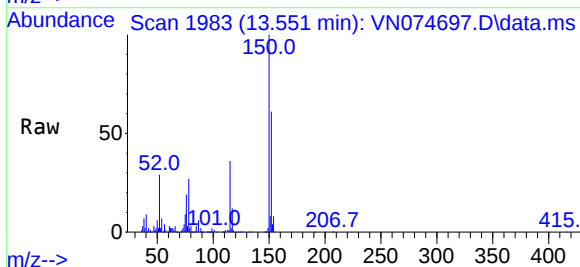


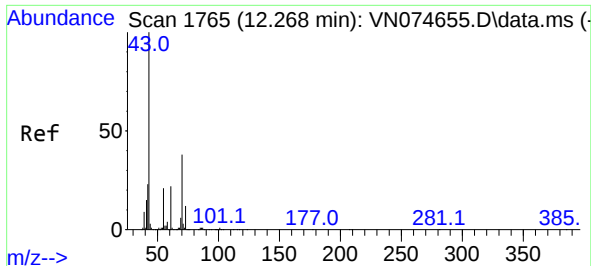
Tgt Ion:117 Resp: 1006500  
Ion Ratio Lower Upper  
117 100  
82 55.1 44.2 66.2  
119 29.8 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.551 min Scan# 1983  
Delta R.T. -0.000 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

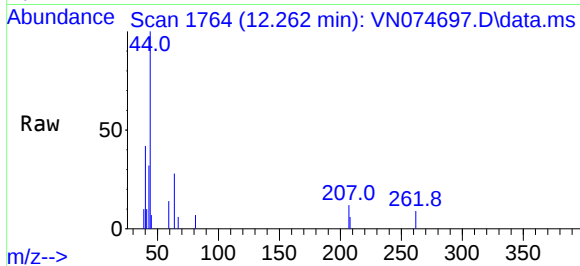
Tgt Ion:152 Resp: 447972  
Ion Ratio Lower Upper  
152 100  
115 59.9 28.9 86.7  
150 160.5 0.0 356.2





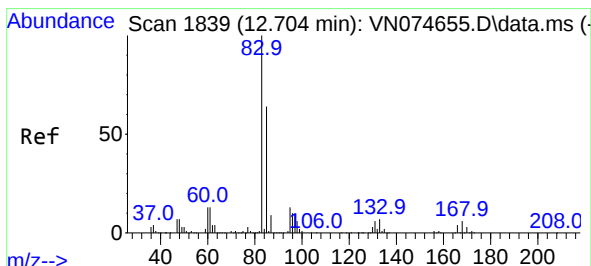
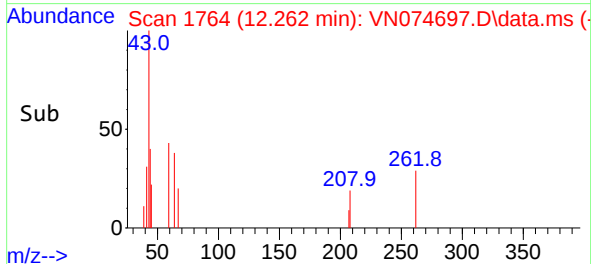
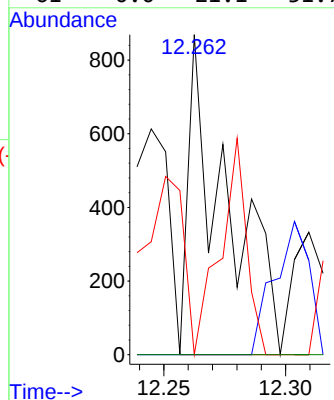
#74  
N-amy1 acetate  
Concen: Below Cal  
RT: 12.262 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 43 Resp: 935

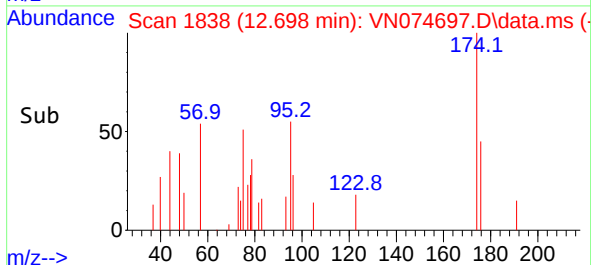
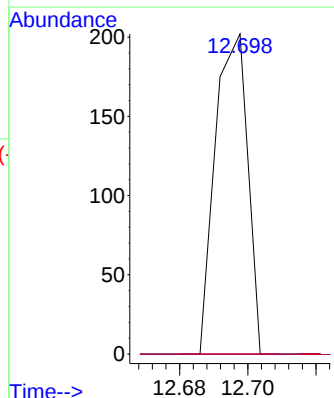
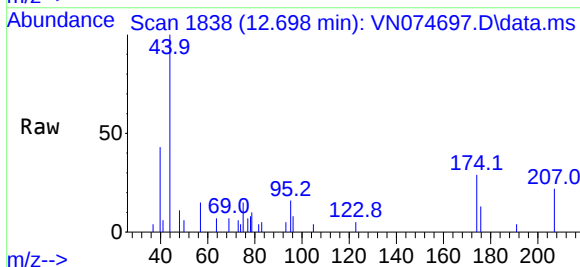
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 0.0   | 39.0  | 58.4# |
| 55  | 47.4  | 21.1  | 31.7# |
| 61  | 0.0   | 21.1  | 31.7# |

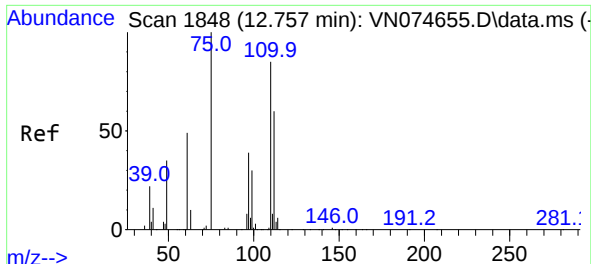


#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.698 min Scan# 1838  
Delta R.T. -0.006 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Tgt Ion: 83 Resp: 133

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 0.0   | 5.3   | 15.9# |
| 85  | 0.0   | 32.3  | 96.9# |

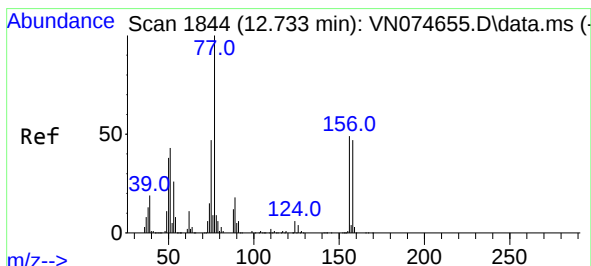
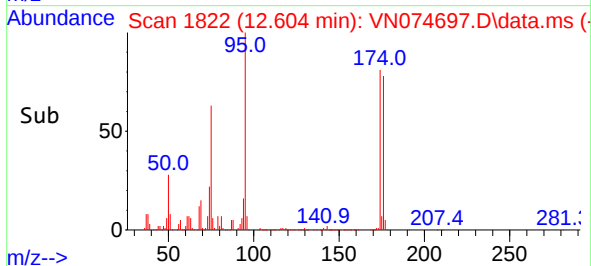
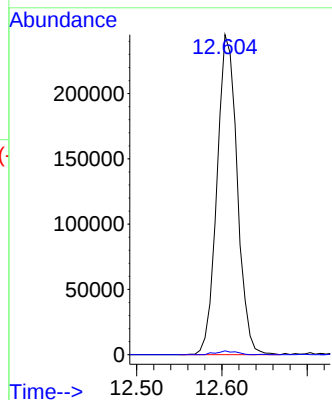
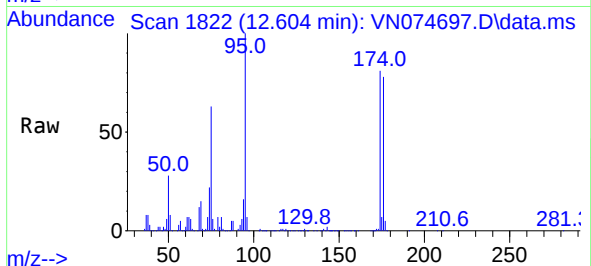




#76  
1,2,3-Trichloropropane  
Concen: 39.887 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.153 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

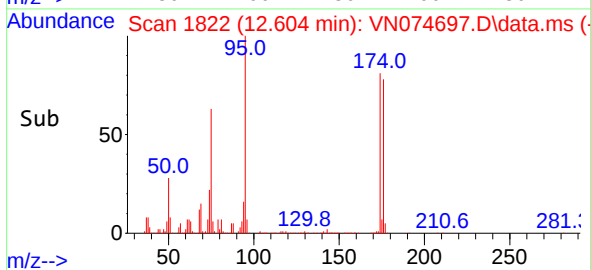
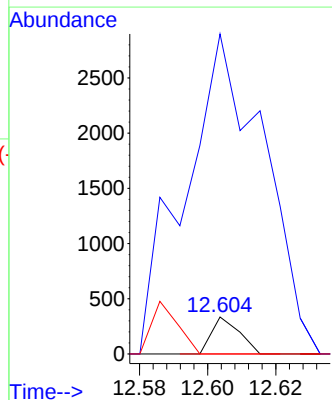
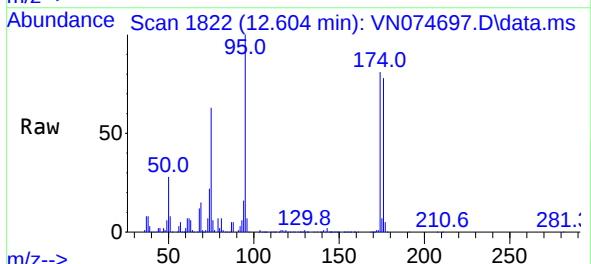
Instrument :  
MSVOA\_N  
ClientSampleId :

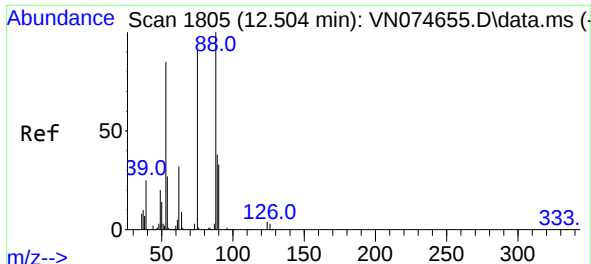
Tgt Ion: 75 Resp: 404199  
Ion Ratio Lower Upper  
75 100  
77 1.2 98.5 295.5#



#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.129 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

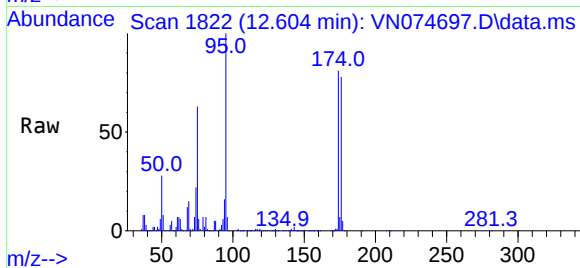
Tgt Ion:156 Resp: 188  
Ion Ratio Lower Upper  
156 100  
77 2487.2 100.5 301.5#  
158 135.1 48.9 146.6



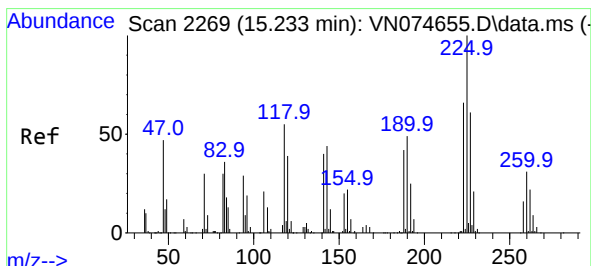
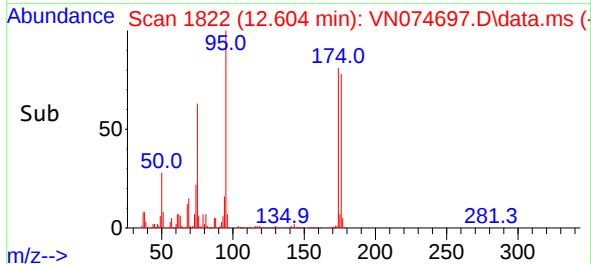
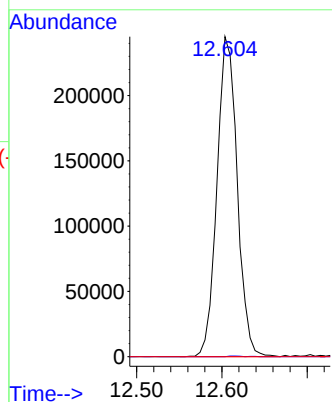


#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.401 ug/l  
RT: 12.604 min Scan# 1805  
Delta R.T. 0.100 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 404199  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 37.2 55.8#



#94  
Hexachlorobutadiene  
Concen: Below Cal  
RT: 15.227 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: VN074697.D  
Acq: 01 Oct 2022 08:02

Tgt Ion: 225 Resp: 66  
Ion Ratio Lower Upper  
225 100  
223 0.0 32.4 97.2#  
227 0.0 31.8 95.4#

