

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111422\  
 Data File : VN075269.D  
 Acq On : 14 Nov 2022 16:51  
 Operator : JC\MD  
 Sample : N5582-04  
 Misc : 5.08g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 31979

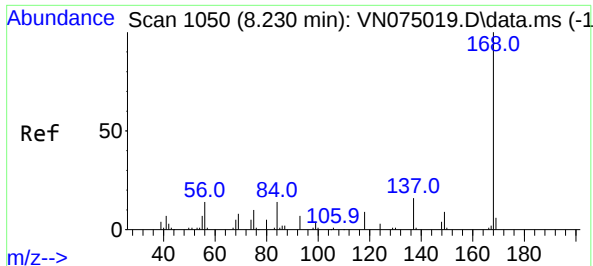
Quant Time: Nov 15 03:53:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 439060     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 798558     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 717613     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 329467     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 291709     | 49.310    | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 98.620%   |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 238098     | 50.789    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 101.580%  |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 978507     | 53.800    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 107.600%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 316184     | 49.488    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 98.980%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 2.907          | 94   | 444        | Below Cal | #      | 49       |
| 6) Chloroethane               | 3.065          | 64   | 5479       | 0.883     | ug/l # | 55       |
| 11) Tert butyl alcohol        | 5.495          | 59   | 2531       | 1.835     | ug/l # | 72       |
| 16) Acetone                   | 4.465          | 43   | 630        | 0.252     | ug/l # | 43       |
| 18) Methyl Acetate            | 5.048          | 43   | 1699       | 0.208     | ug/l # | 54       |
| 20) Methylene Chloride        | 5.265          | 84   | 1802       | 0.323     | ug/l # | 81       |
| 25) 2-Butanone                | 7.494          | 43   | 2433       | 0.618     | ug/l # | 75       |
| 29) Tetrahydrofuran           | 7.865          | 42   | 515        | 0.202     | ug/l # | 35       |
| 31) Cyclohexane               | 8.224          | 56   | 9544       | 1.085     | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 36022      | 4.963     | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.494          | 43   | 2433       | 0.306     | ug/l # | 66       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 47947      | 6.006     | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 3793       | 0.476     | ug/l # | 1        |
| 68) m/p-Xylenes               | 12.065         | 106  | 2220       | 0.201     | ug/l   | 89       |
| 71) Bromoform                 | 12.847         | 173  | 2309       | 0.543     | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.929         | 83   | 269        | Below Cal | #      | 26       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 163738     | 23.406    | ug/l # | 1        |
| 80) 1,3,5-Trimethylbenzene    | 13.171         | 105  | 5281       | 0.238     | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 163738     | 60.084    | ug/l # | 10       |
| 84) 1,2,4-Trimethylbenzene    | 13.482         | 105  | 20419      | 0.908     | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.053         | 91   | 6173       | 0.336     | ug/l # | 76       |
| 90) Hexachloroethane          | 14.329         | 117  | 2009       | 0.480     | ug/l # | 19       |
| 95) Naphthalene               | 15.641         | 128  | 12871      | 0.686     | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.806         | 180  | 2264       | 0.467     | ug/l # | 36       |
| -----                         |                |      |            |           |        |          |

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

Quant Time: Nov 15 03:53:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 27 09:48:49 2022  
Response via : Initial Calibration

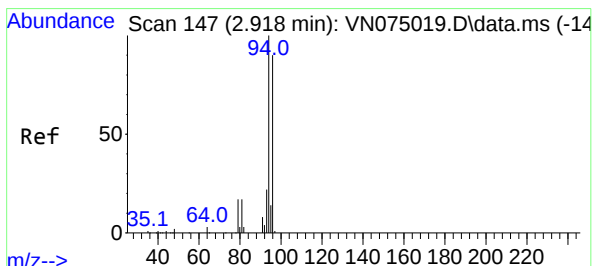
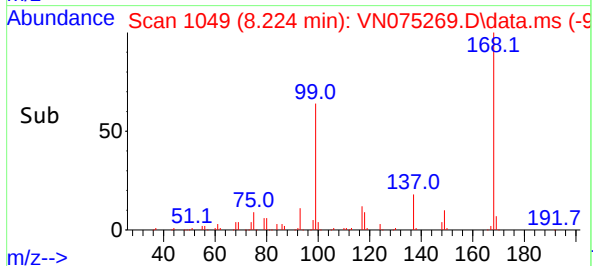
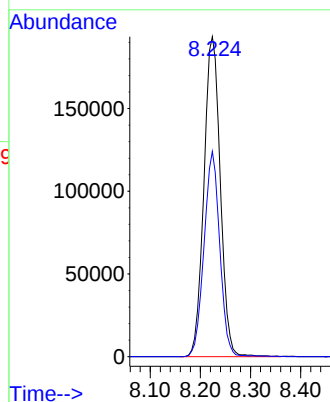
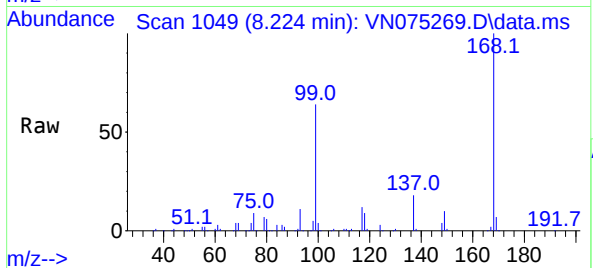




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

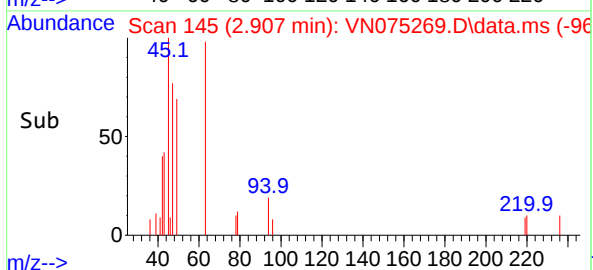
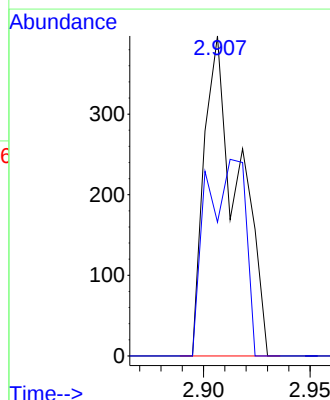
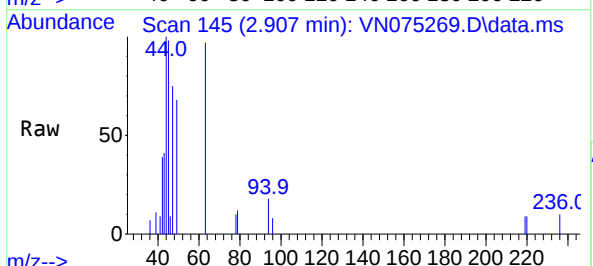
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

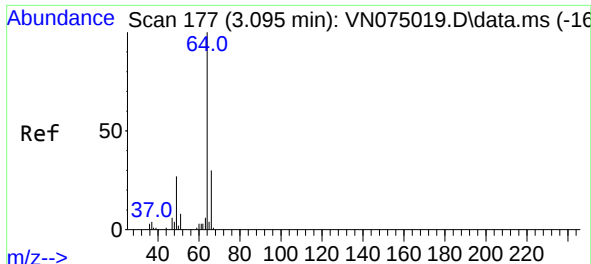
Tgt Ion:168 Resp: 439060  
Ion Ratio Lower Upper  
168 100  
99 64.2 51.6 77.4



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.907 min Scan# 145  
Delta R.T. -0.011 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 94 Resp: 444  
Ion Ratio Lower Upper  
94 100  
96 41.8 71.8 107.6#

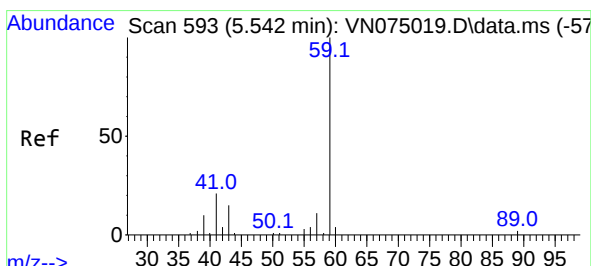
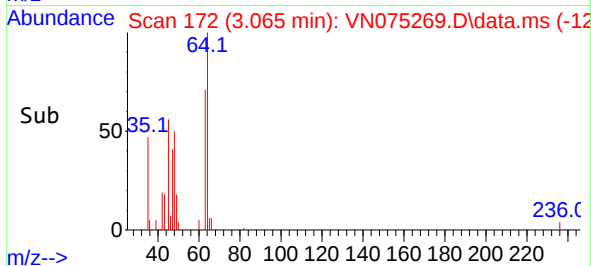
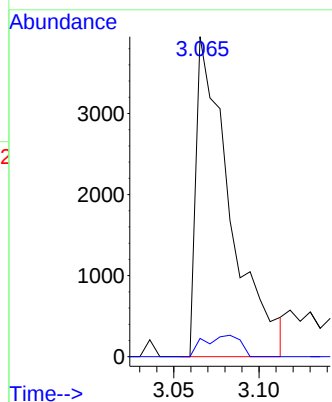
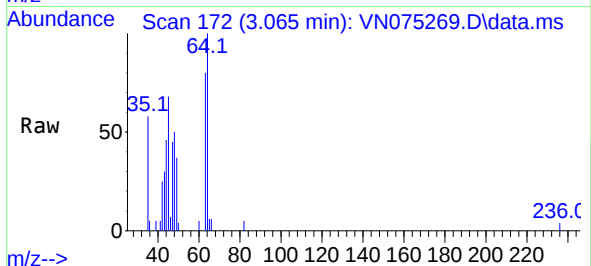




#6  
Chloroethane  
Concen: 0.883 ug/l  
RT: 3.065 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

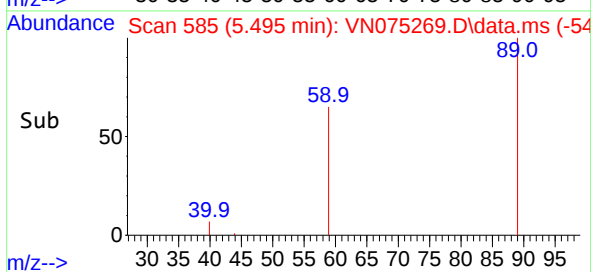
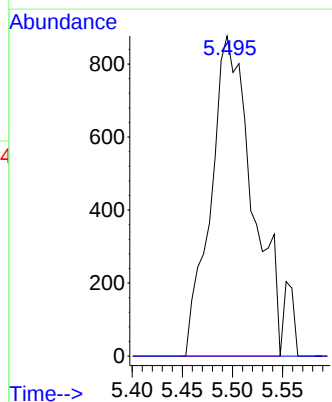
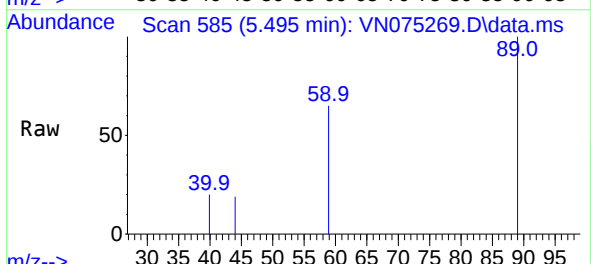
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

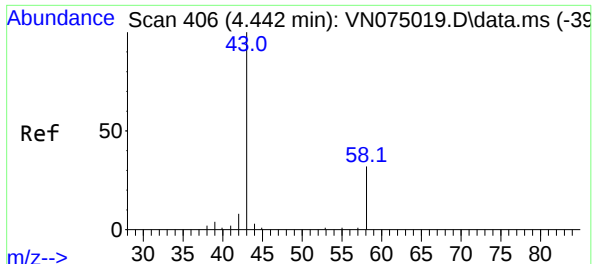
Tgt Ion: 64 Resp: 5479  
Ion Ratio Lower Upper  
64 100  
66 5.7 23.8 35.8#



#11  
Tert butyl alcohol  
Concen: 1.835 ug/l  
RT: 5.495 min Scan# 585  
Delta R.T. -0.047 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 59 Resp: 2531  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

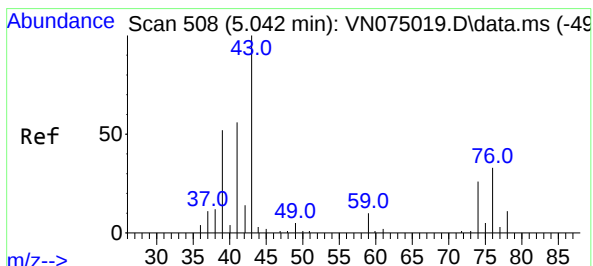
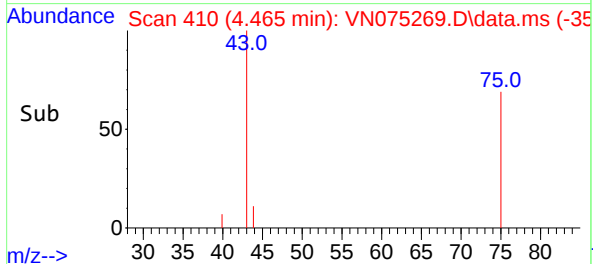
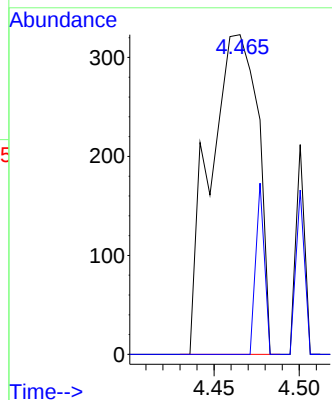
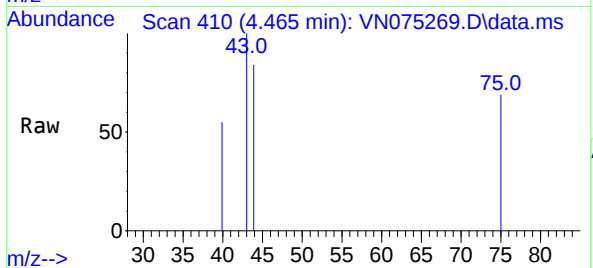




#16  
Acetone  
Concen: 0.252 ug/l  
RT: 4.465 min Scan# 410  
Delta R.T. 0.023 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

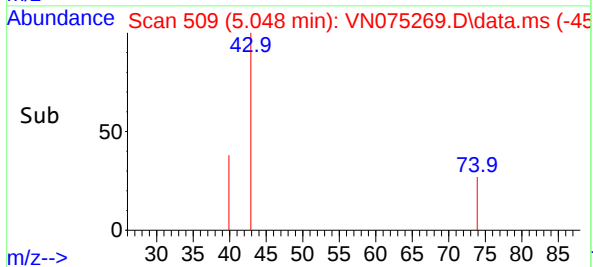
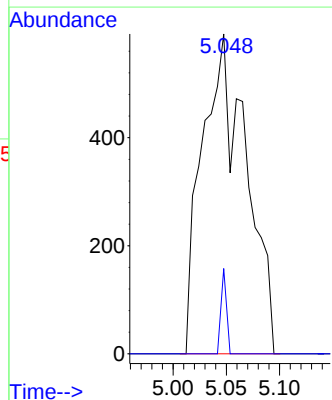
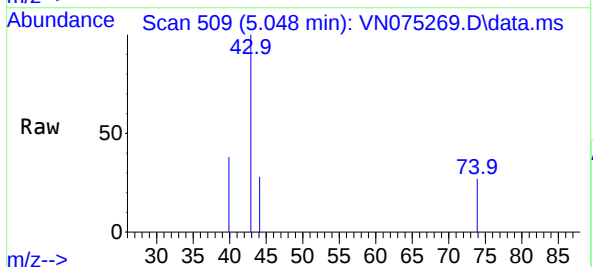
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

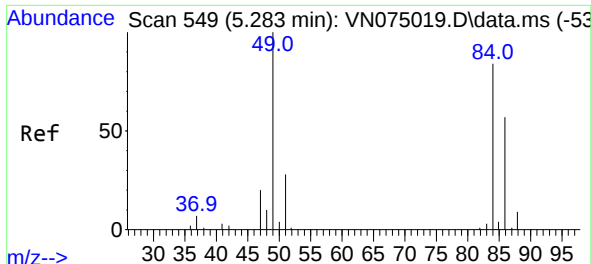
Tgt Ion: 43 Resp: 630  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.5 38.3#



#18  
Methyl Acetate  
Concen: 0.208 ug/l  
RT: 5.048 min Scan# 509  
Delta R.T. 0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

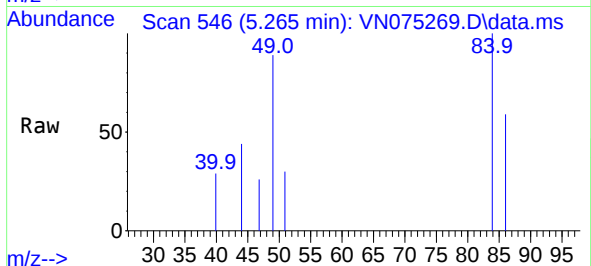
Tgt Ion: 43 Resp: 1699  
Ion Ratio Lower Upper  
43 100  
74 3.3 22.0 33.0#





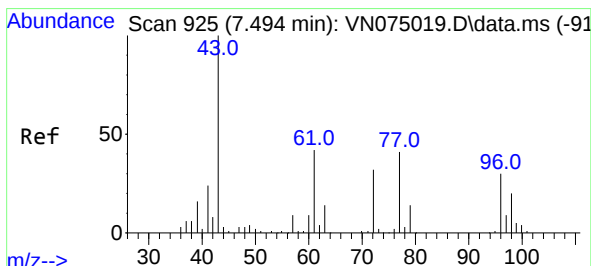
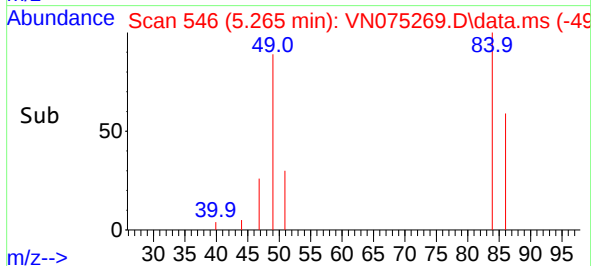
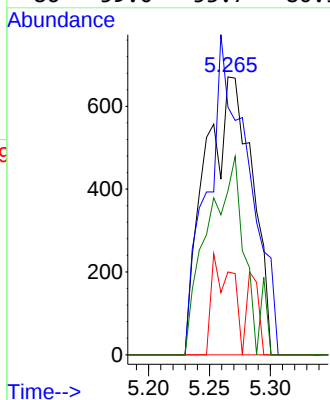
#20  
Methylene Chloride  
Concen: 0.323 ug/l  
RT: 5.265 min Scan# 549  
Delta R.T. -0.018 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
31979



Tgt Ion: 84 Resp: 1802

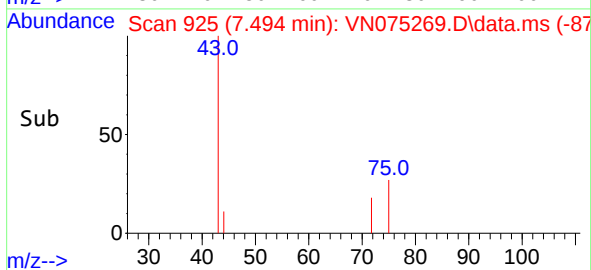
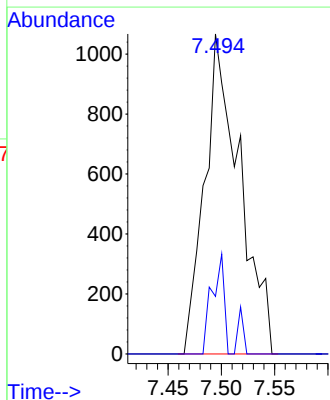
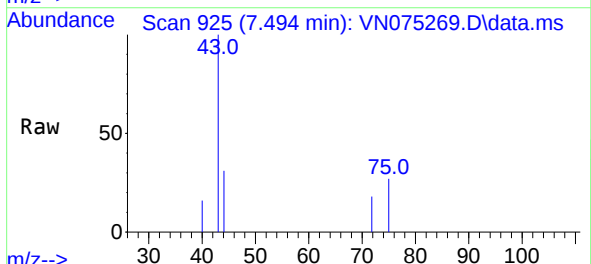
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 89.1  | 94.9  | 142.3# |
| 51  | 29.8  | 26.8  | 40.2   |
| 86  | 59.0  | 53.7  | 80.5   |

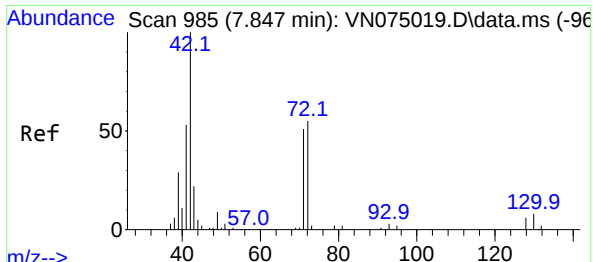


#25  
2-Butanone  
Concen: 0.618 ug/l  
RT: 7.494 min Scan# 925  
Delta R.T. 0.000 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 43 Resp: 2433

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 18.0  | 25.5  | 38.3# |

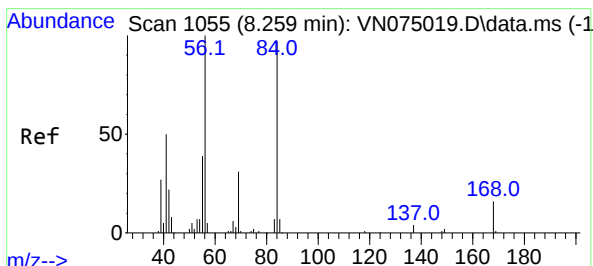
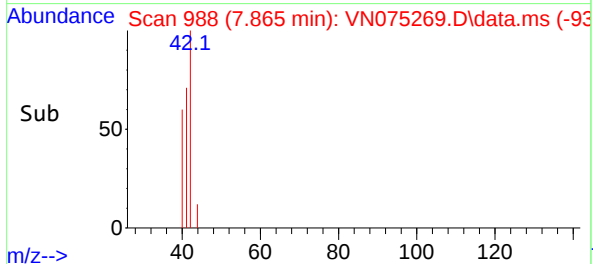
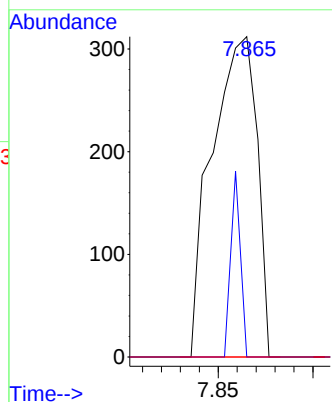
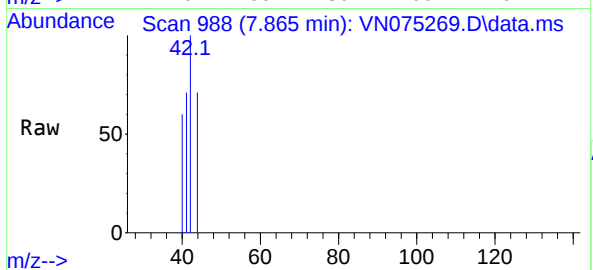




#29  
Tetrahydrofuran  
Concen: 0.202 ug/l  
RT: 7.865 min Scan# 91  
Delta R.T. 0.018 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

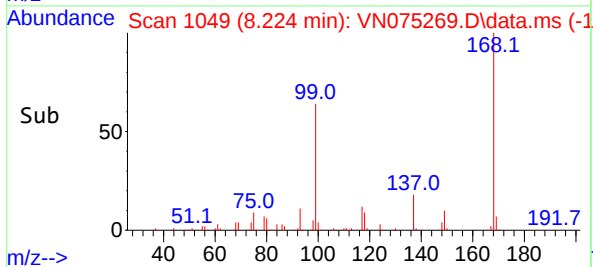
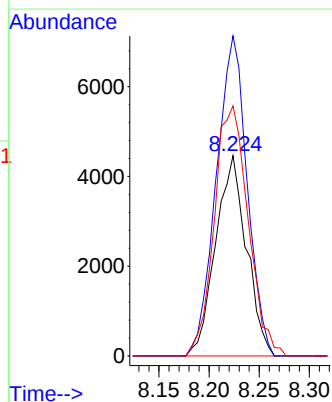
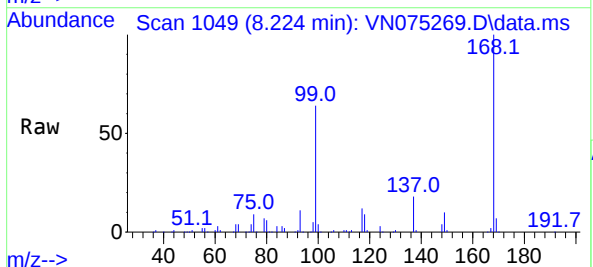
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

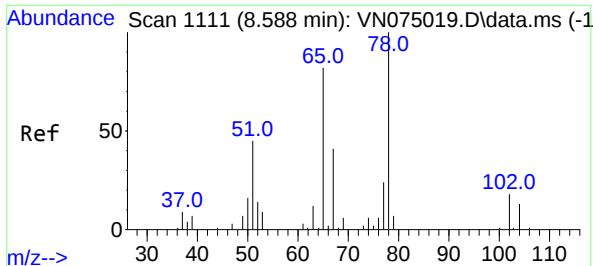
Tgt Ion: 42 Resp: 515  
Ion Ratio Lower Upper  
42 100  
72 12.4 43.0 64.6#  
71 0.0 39.9 59.9#



#31  
Cyclohexane  
Concen: 1.085 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.035 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 56 Resp: 9544  
Ion Ratio Lower Upper  
56 100  
69 159.7 25.2 37.8#  
84 124.8 77.8 116.8#

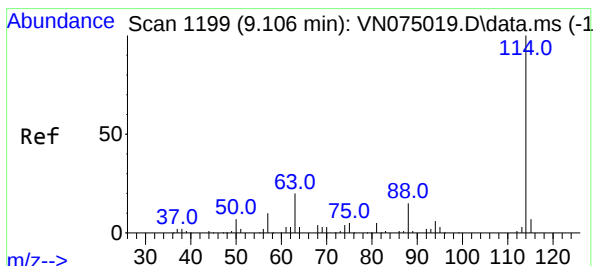
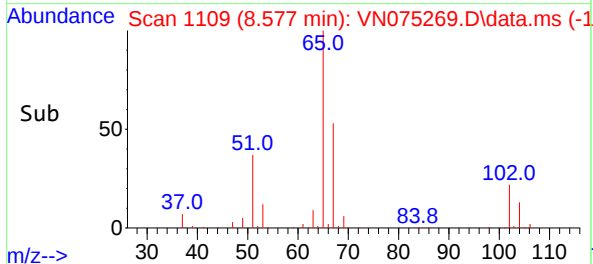
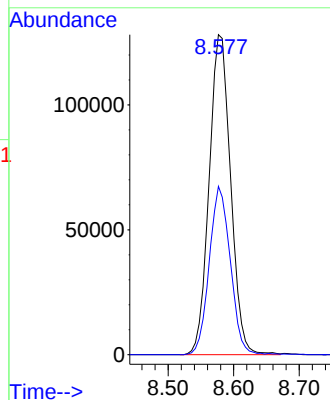
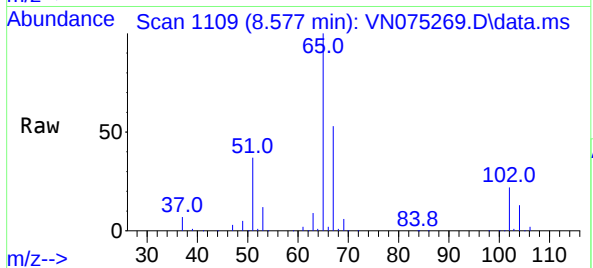




#33  
1,2-Dichloroethane-d4  
Concen: 49.310 ug/l  
RT: 8.577 min Scan# 1111  
Delta R.T. -0.011 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

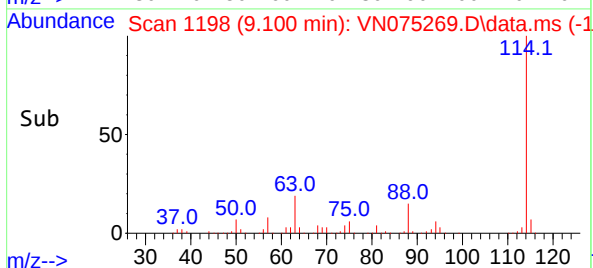
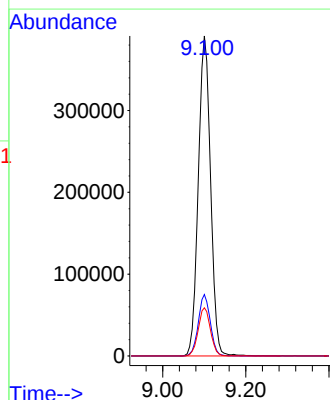
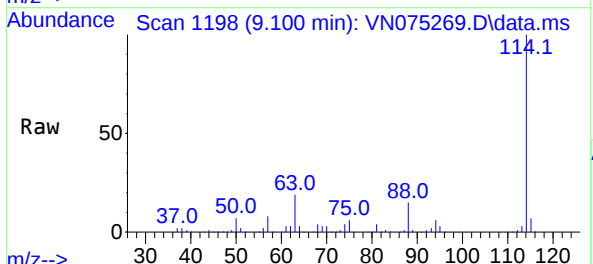
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

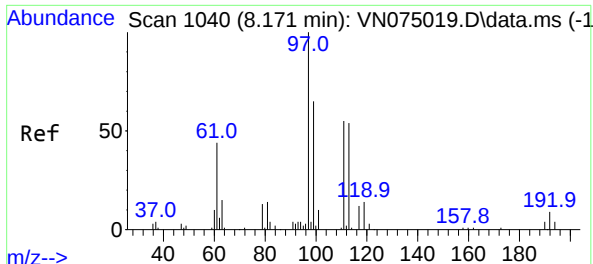
Tgt Ion: 65 Resp: 291709  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 102.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 1198  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

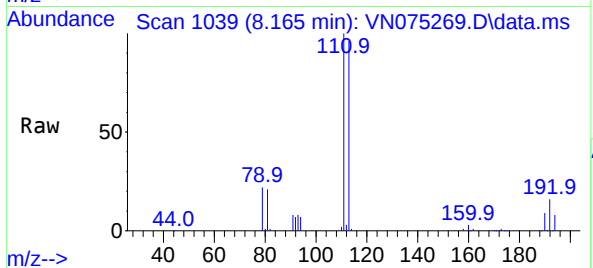
Tgt Ion: 114 Resp: 798558  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 39.6  
88 15.0 0.0 29.0



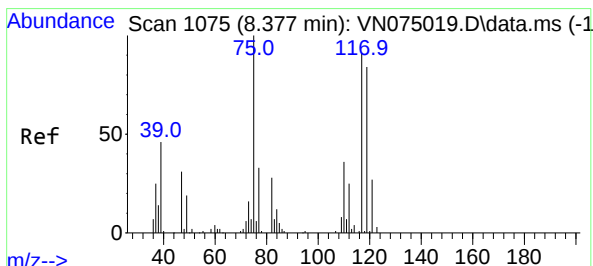
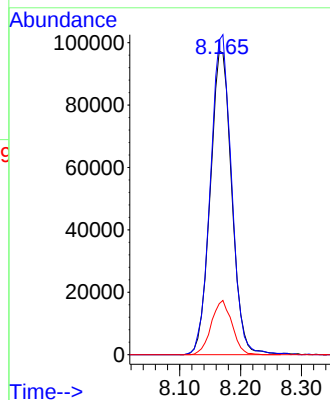
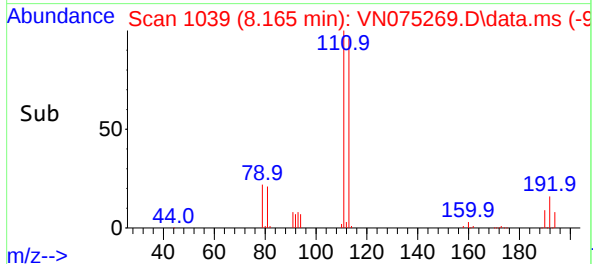


#35  
Dibromofluoromethane  
Concen: 50.789 ug/l  
RT: 8.165 min Scan# 1040  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

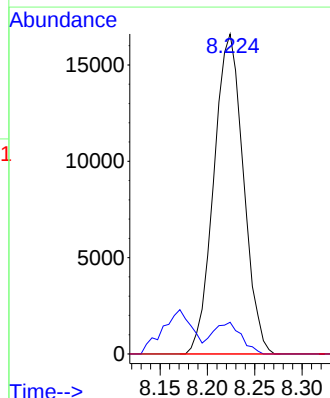
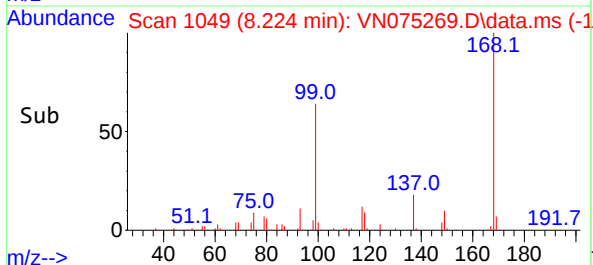
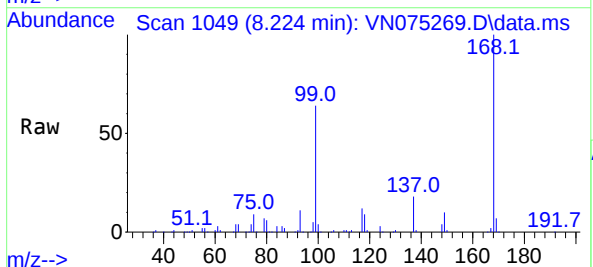


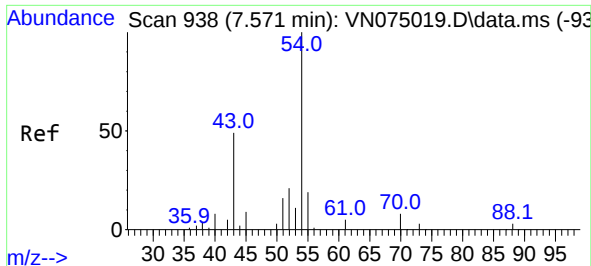
Tgt Ion:113 Resp: 238098  
Ion Ratio Lower Upper  
113 100  
111 103.6 80.5 120.7  
192 17.2 13.2 19.8



#36  
1,1-Dichloropropene  
Concen: 4.963 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.153 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 75 Resp: 36022  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.8 53.3#  
77 0.0 24.6 37.0#

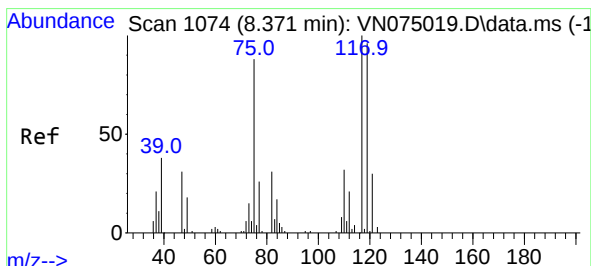
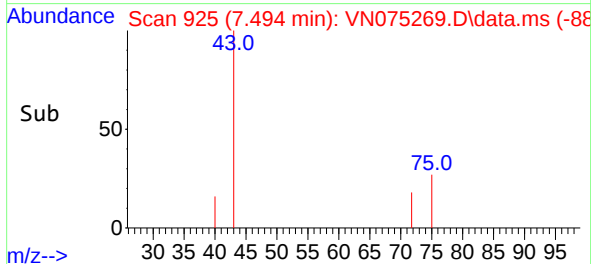
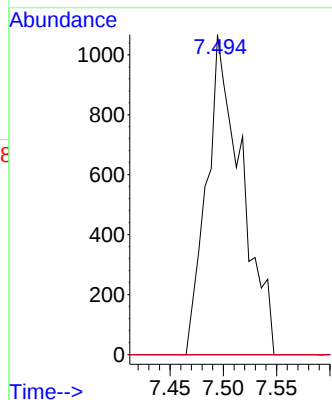
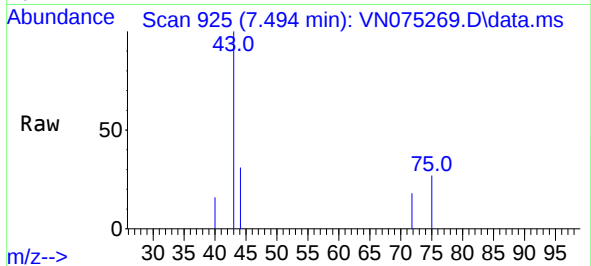




#37  
Ethyl Acetate  
Concen: 0.306 ug/l  
RT: 7.494 min Scan# 91  
Delta R.T. -0.077 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

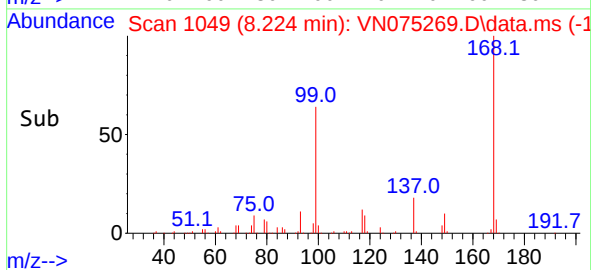
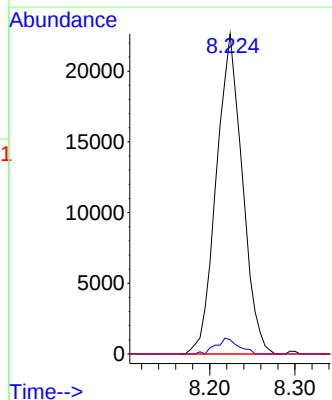
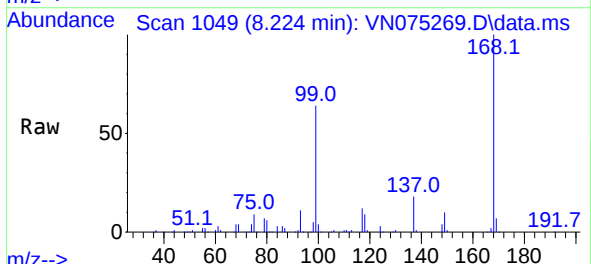
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

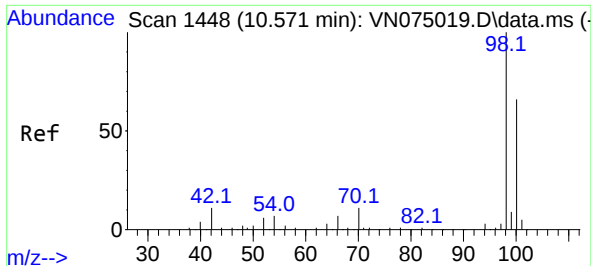
Tgt Ion: 43 Resp: 2433  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.2 18.4#  
70 0.0 9.4 14.2#



#38  
Carbon Tetrachloride  
Concen: 6.006 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.147 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 117 Resp: 47947  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.7 115.1#  
121 0.0 23.9 35.9#

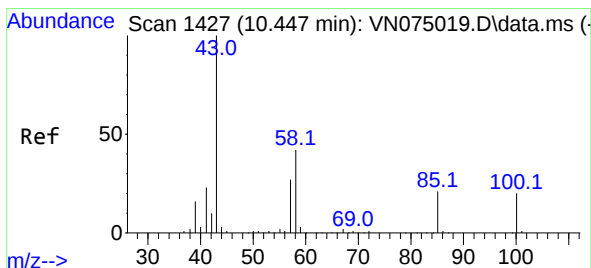
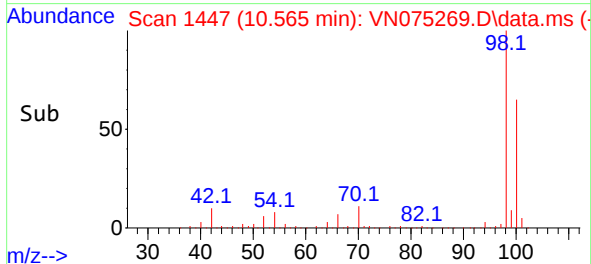
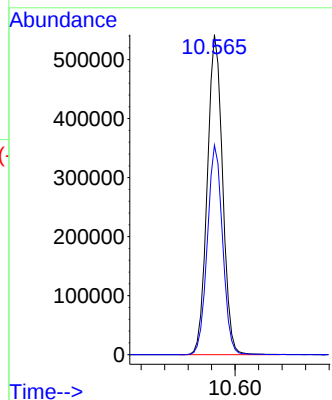
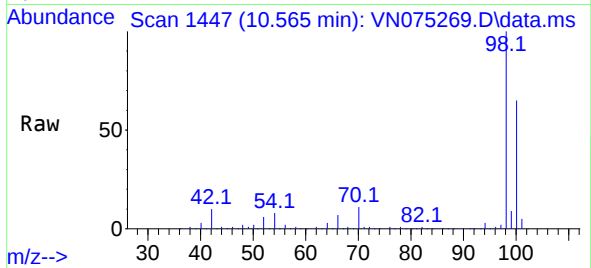




#50  
Toluene-d8  
Concen: 53.800 ug/l  
RT: 10.565 min Scan# 1447  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

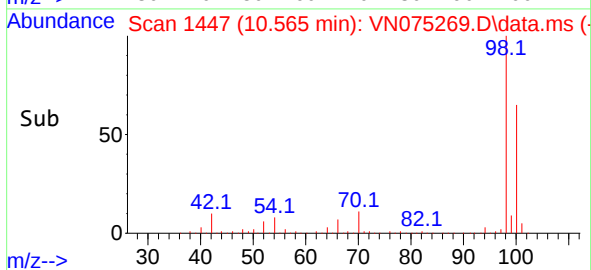
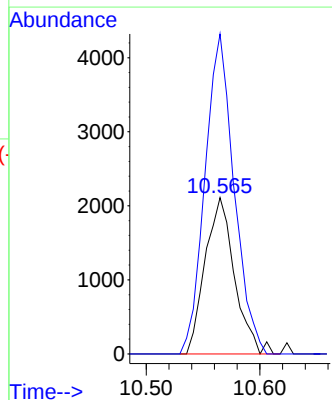
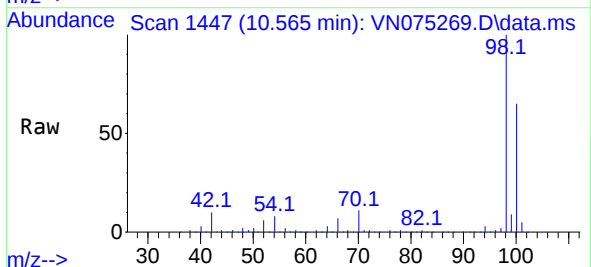
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

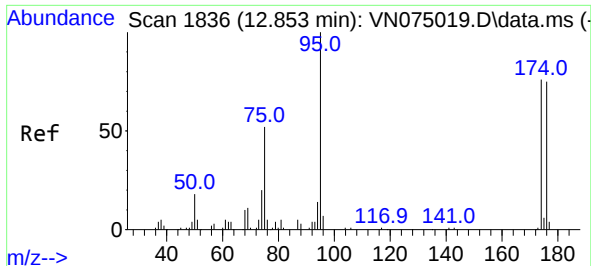
Tgt Ion: 98 Resp: 978507  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.476 ug/l  
RT: 10.565 min Scan# 1447  
Delta R.T. 0.118 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 43 Resp: 3793  
Ion Ratio Lower Upper  
43 100  
58 202.8 33.6 50.4#

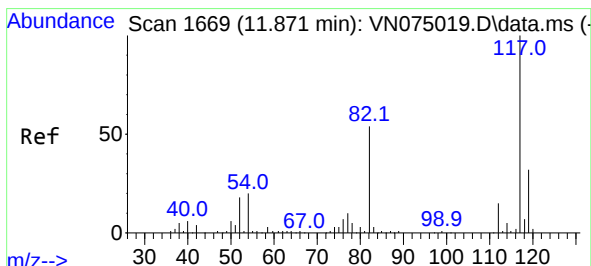
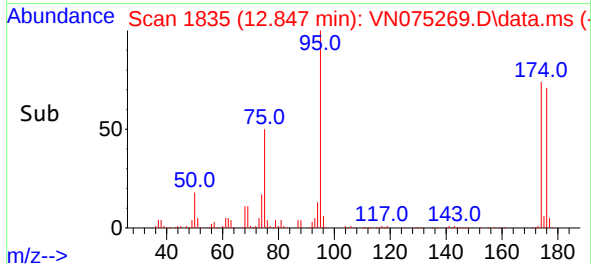
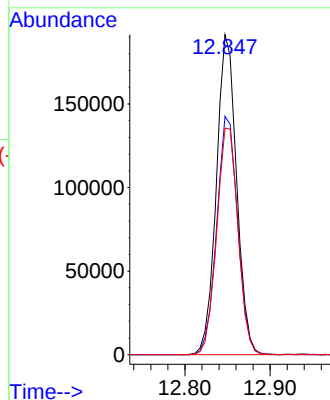
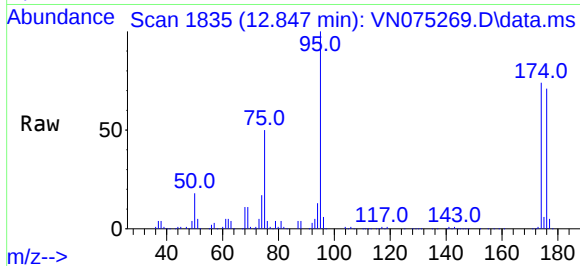




#62  
4-Bromofluorobenzene  
Concen: 49.488 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

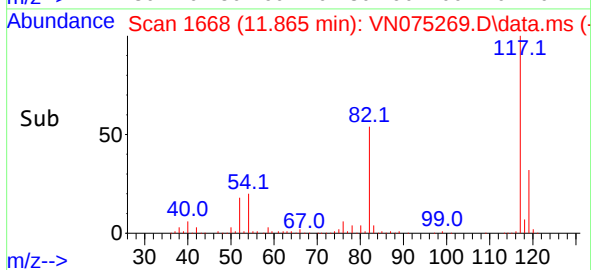
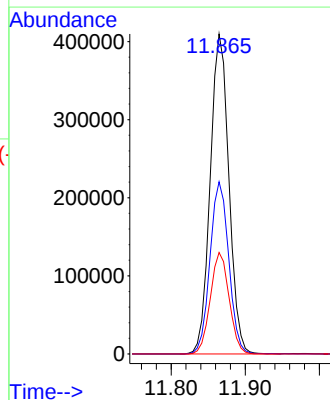
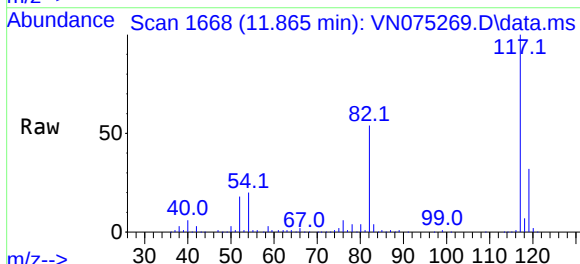
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

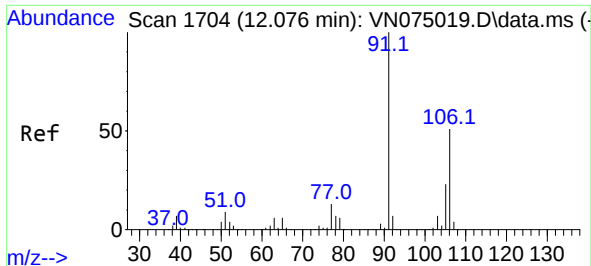
Tgt Ion: 95 Resp: 316184  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 147.4  
176 74.4 0.0 142.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1668  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 117 Resp: 717613  
Ion Ratio Lower Upper  
117 100  
82 53.8 43.1 64.7  
119 31.7 25.5 38.3

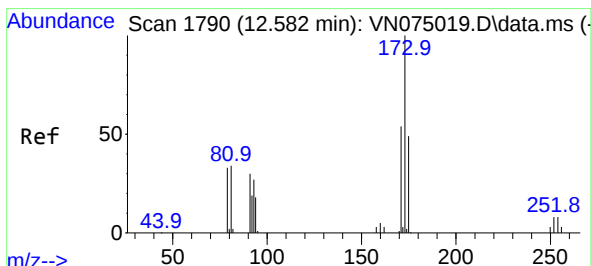
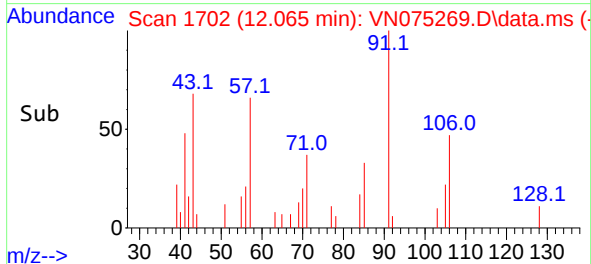
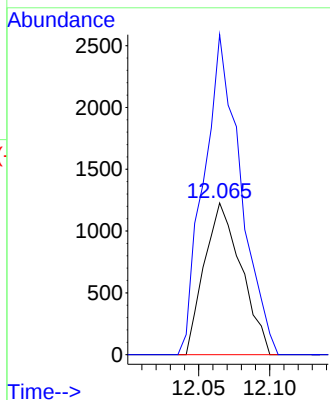
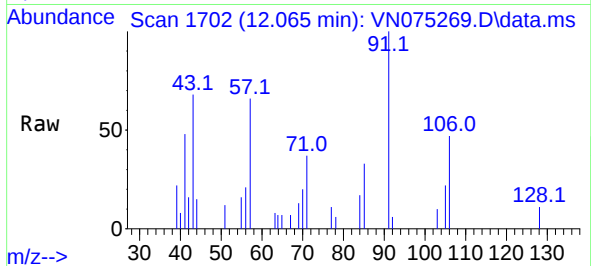




#68  
m/p-Xylenes  
Concen: 0.201 ug/l  
RT: 12.065 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

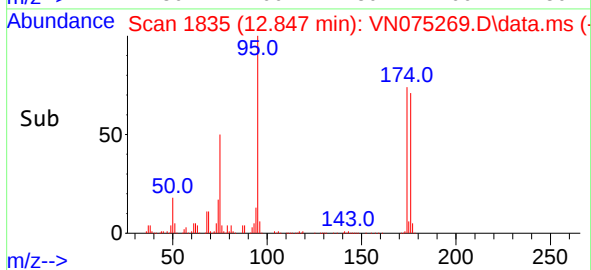
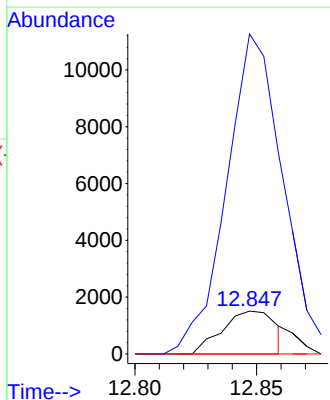
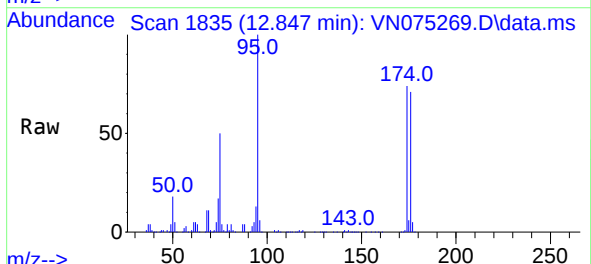
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

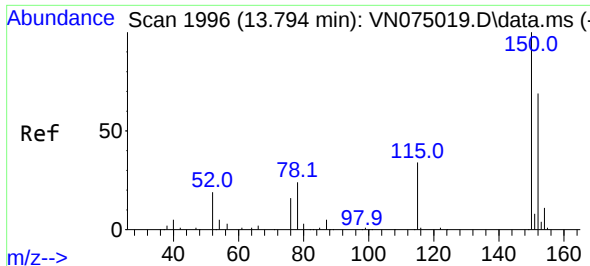
Tgt Ion:106 Resp: 2220  
Ion Ratio Lower Upper  
106 100  
91 210.7 156.0 234.0



#71  
Bromoform  
Concen: 0.543 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.265 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion:173 Resp: 2309  
Ion Ratio Lower Upper  
173 100  
175 682.3 24.6 74.0#  
254 0.0 0.0 0.0

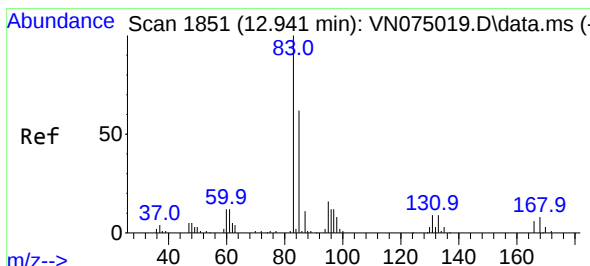
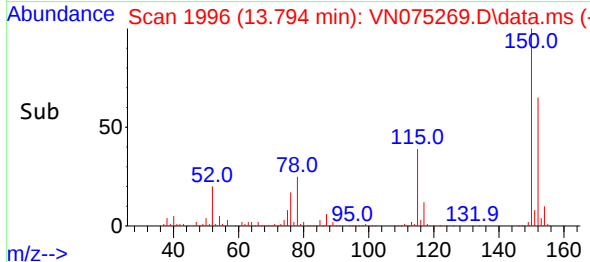
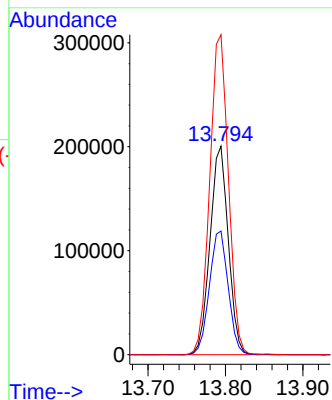
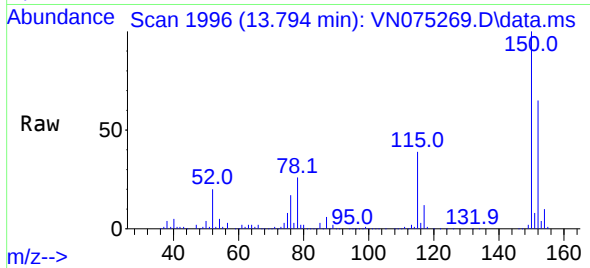




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

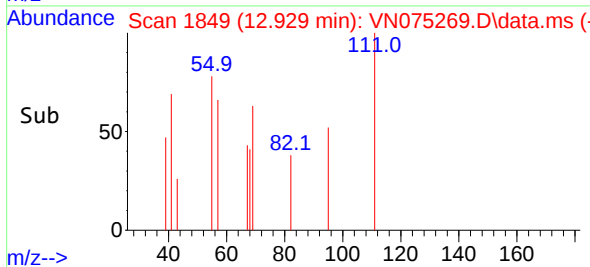
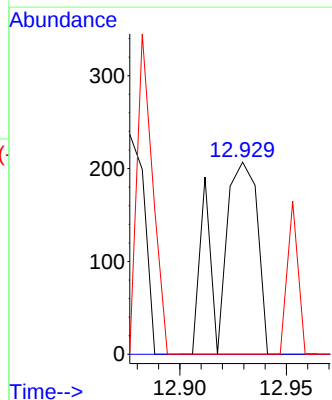
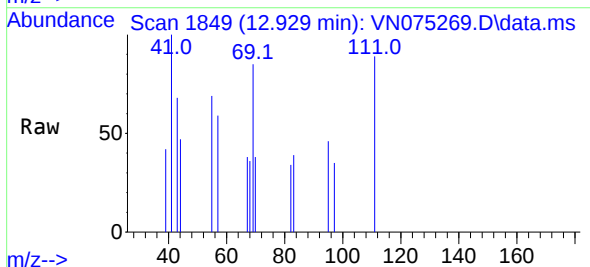
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

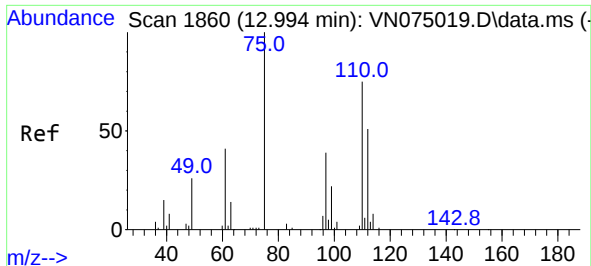
Tgt Ion:152 Resp: 329467  
Ion Ratio Lower Upper  
152 100  
115 60.8 30.2 90.6  
150 156.4 0.0 348.4



#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.929 min Scan# 1849  
Delta R.T. -0.012 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 83 Resp: 269  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.1 15.3#  
85 0.0 31.6 94.7#

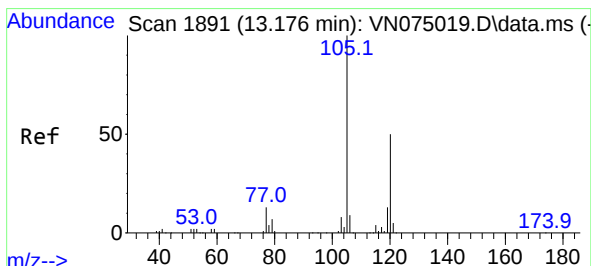
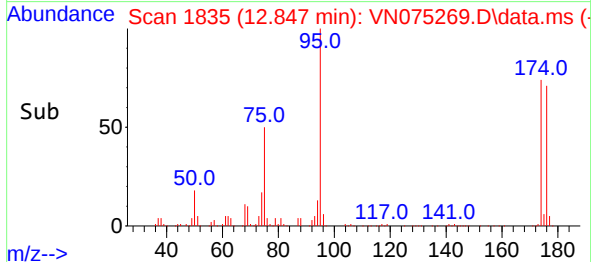
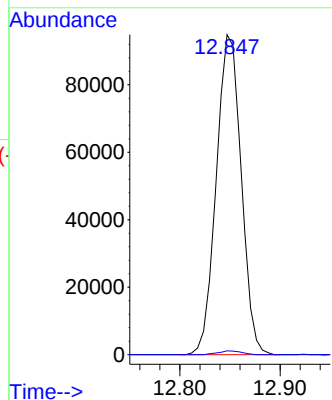
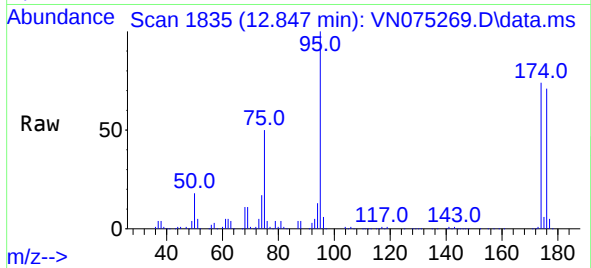




#76  
1,2,3-Trichloropropane  
Concen: 23.406 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.147 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

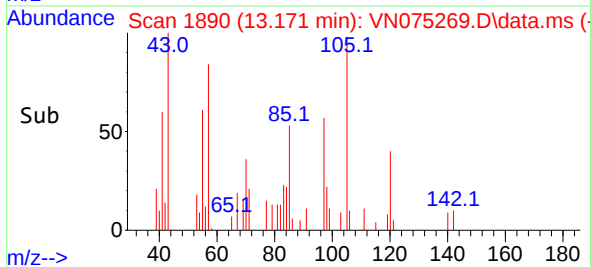
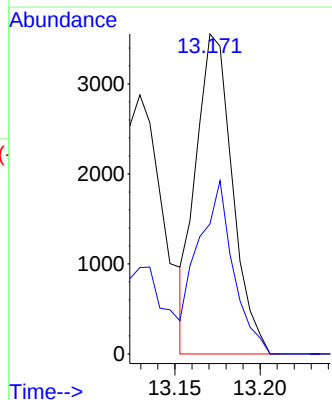
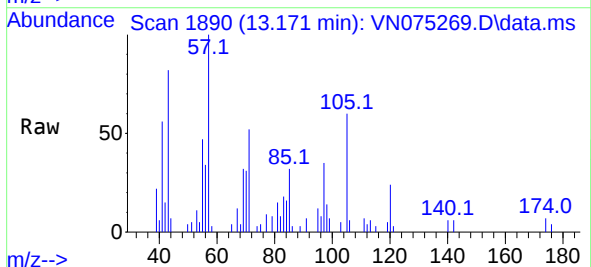
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

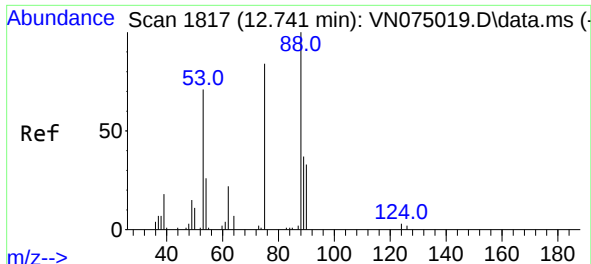
Tgt Ion: 75 Resp: 163738  
Ion Ratio Lower Upper  
75 100  
77 1.1 75.6 226.8#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.238 ug/l  
RT: 13.171 min Scan# 1890  
Delta R.T. -0.005 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion:105 Resp: 5281  
Ion Ratio Lower Upper  
105 100  
120 52.3 24.7 74.1

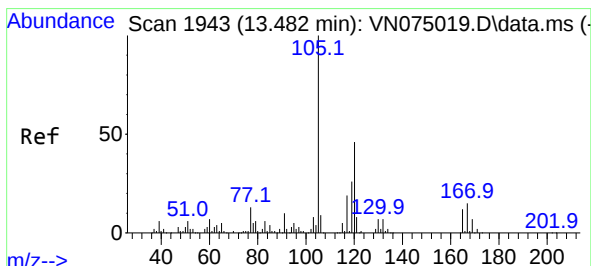
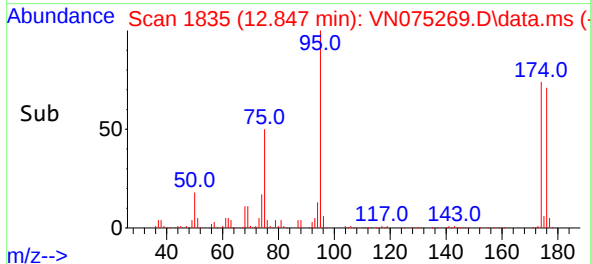
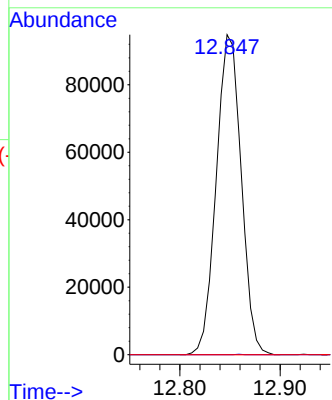
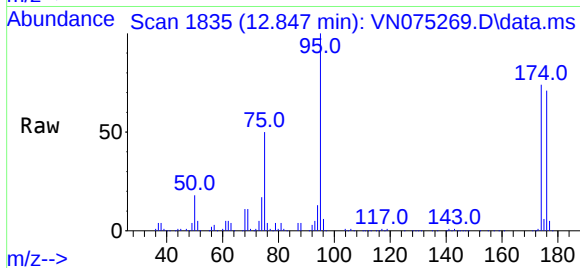




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.084 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.106 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

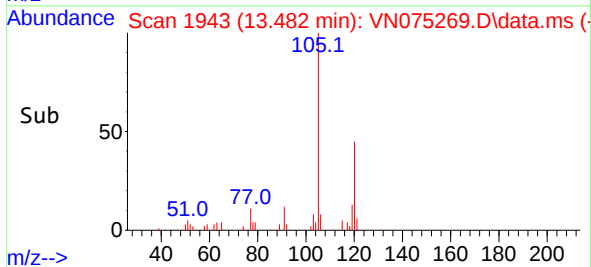
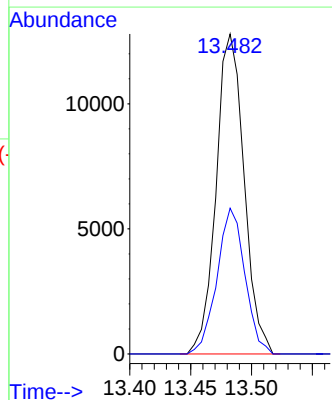
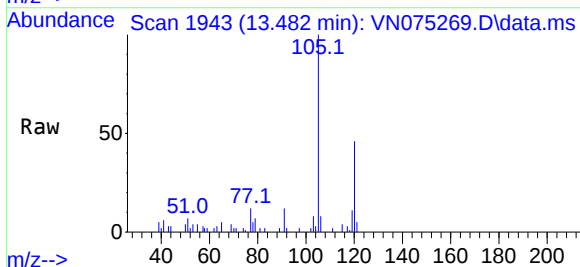
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

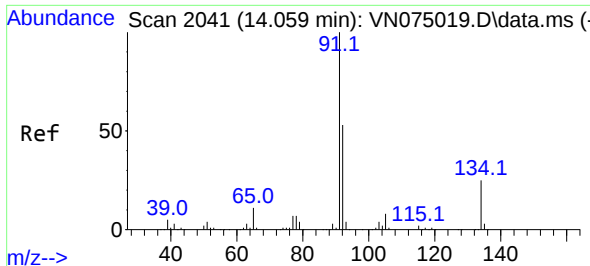
Tgt Ion: 75 Resp: 163738  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.908 ug/l  
RT: 13.482 min Scan# 1943  
Delta R.T. 0.000 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 105 Resp: 20419  
Ion Ratio Lower Upper  
105 100  
120 45.5 22.7 68.1

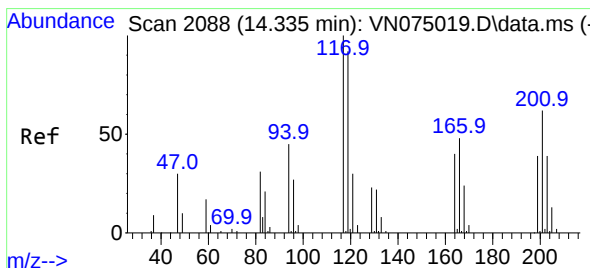
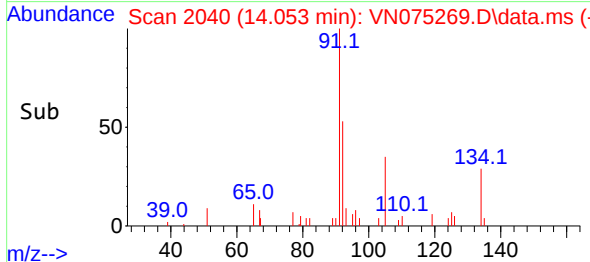
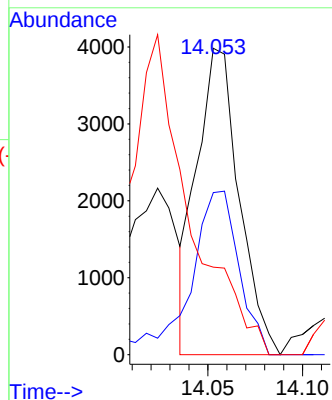
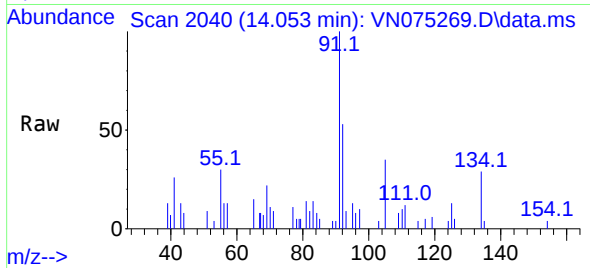




#89  
n-Butylbenzene  
Concen: 0.336 ug/l  
RT: 14.053 min Scan# 2040  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

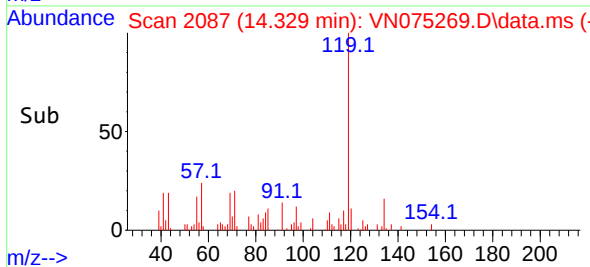
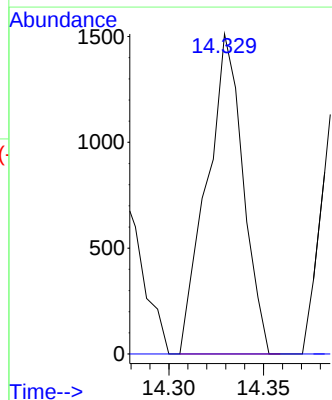
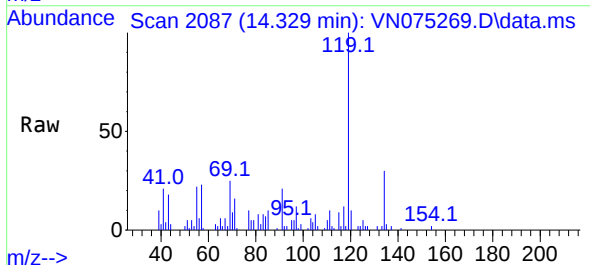
Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

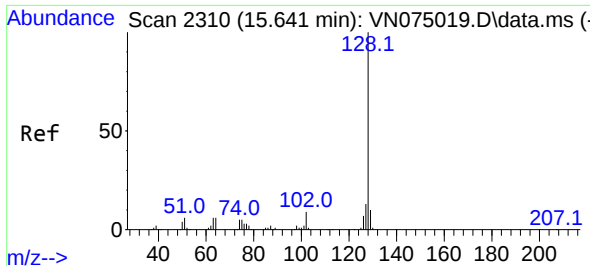
Tgt Ion: 91 Resp: 6173  
Ion Ratio Lower Upper  
91 100  
92 60.2 26.5 79.4  
134 0.0 13.0 39.0#



#90  
Hexachloroethane  
Concen: 0.480 ug/l  
RT: 14.329 min Scan# 2087  
Delta R.T. -0.006 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion: 117 Resp: 2009  
Ion Ratio Lower Upper  
117 100  
201 0.0 31.5 94.5#

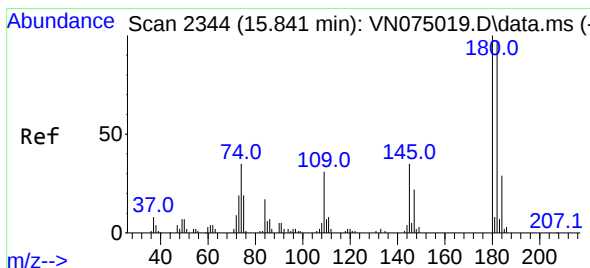
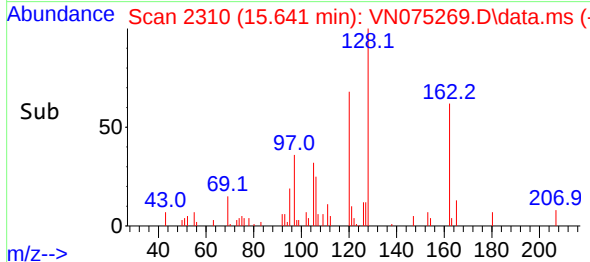
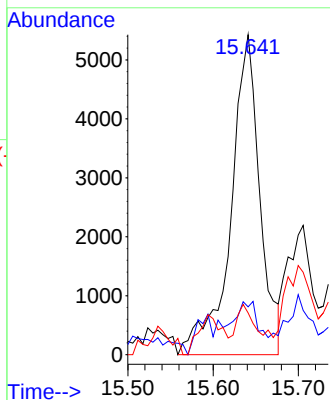
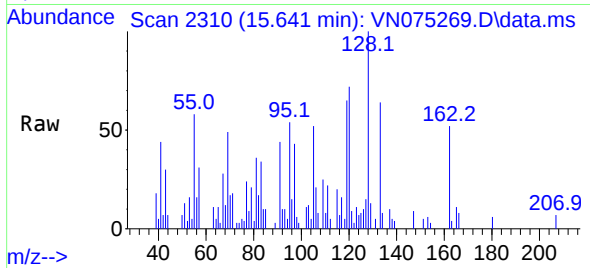




#95  
Naphthalene  
Concen: 0.686 ug/l  
RT: 15.641 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
31979

Tgt Ion:128 Resp: 12871  
Ion Ratio Lower Upper  
128 100  
127 11.8 10.4 15.6  
129 9.1 8.6 12.8



#96  
1,2,3-Trichlorobenzene  
Concen: 0.467 ug/l  
RT: 15.806 min Scan# 2338  
Delta R.T. -0.035 min  
Lab File: VN075269.D  
Acq: 14 Nov 2022 16:51

Tgt Ion:180 Resp: 2264  
Ion Ratio Lower Upper  
180 100  
182 31.2 47.3 141.8#  
145 0.0 17.6 52.9#

