

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042821\  
 Data File : VN066799.D  
 Acq On : 28 Apr 2021 8:55  
 Operator : JC/MD  
 Sample : BFB  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 29 04:28:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 27 16:02:50 2021  
 Response via : Initial Calibration

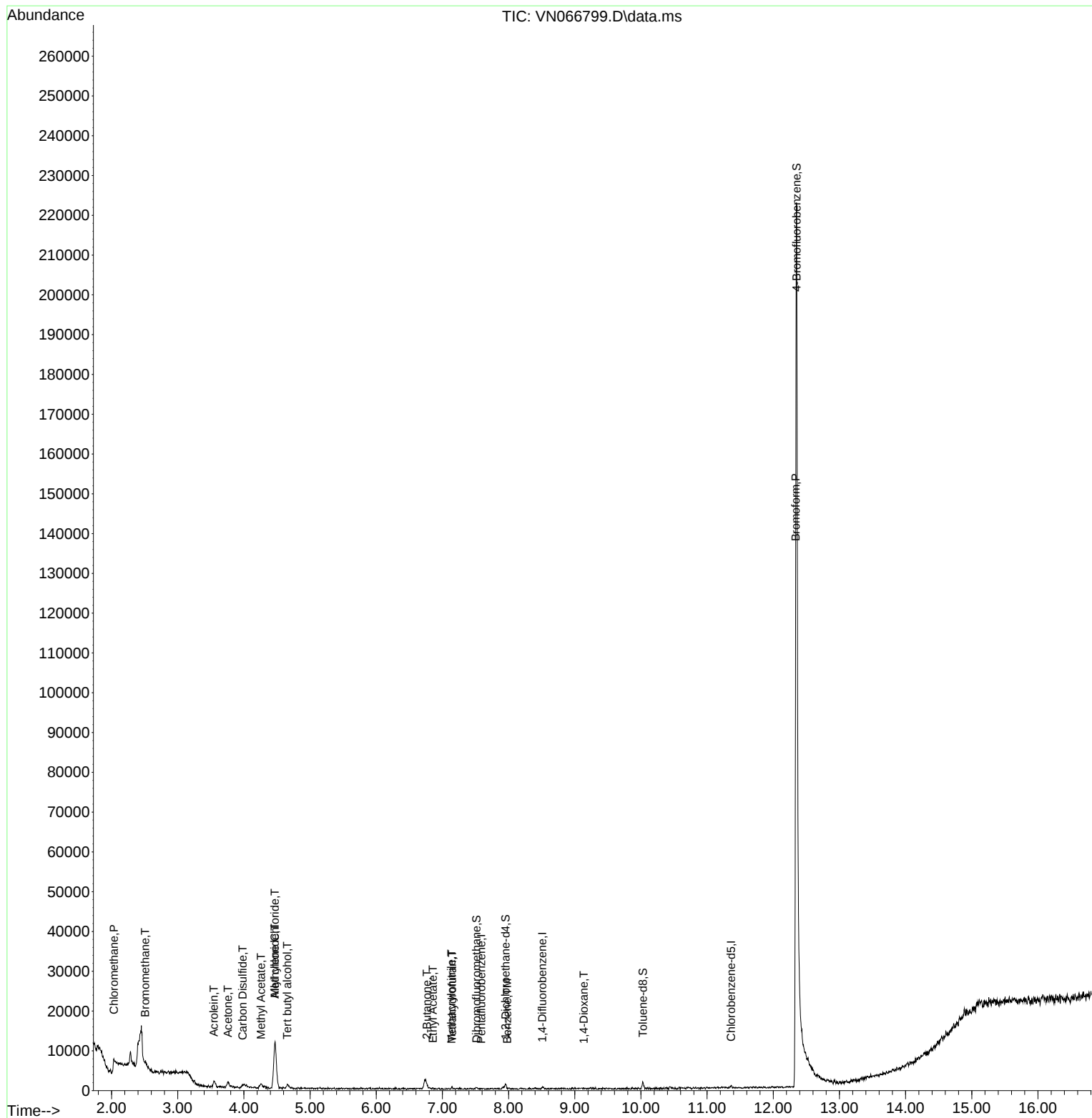
| Compound                    | R.T.           | QIon | Response              | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|-----------------------|----------|--------|----------|
| -----                       |                |      |                       |          |        |          |
| Internal Standards          |                |      |                       |          |        |          |
| 1) Pentafluorobenzene       | 7.588          | 168  | 226                   | 50.00    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene     | 8.511          | 114  | 395                   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.362         | 117  | 658                   | 50.00    | ug/l   | # 0.01   |
| 72) 1,4-Dichlorobenzene-d4  | 0.000          | 152  | 0                     | 0.00     | ug/l   | -13.29   |
|                             |                |      |                       |          |        |          |
| System Monitoring Compounds |                |      |                       |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.953          | 65   | 1283                  | 441.85   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = 883.70%#   |          |        |          |
| 35) Dibromofluoromethane    | 7.516          | 113  | 256                   | 104.99   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = 209.98%#   |          |        |          |
| 50) Toluene-d8              | 10.029         | 98   | 1723                  | 180.03   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = 360.06%#   |          |        |          |
| 62) 4-Bromofluorobenzene    | 12.351         | 95   | 110449                | 34107.99 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = 68215.98%# |          |        |          |
|                             |                |      |                       |          |        |          |
| Target Compounds            |                |      |                       |          |        | Qvalue   |
| 3) Chloromethane            | 2.034          | 50   | 1098                  | 341.53   | ug/l   | 98       |
| 5) Bromomethane             | 2.509          | 94   | 234                   | 114.21   | ug/l   | 97       |
| 11) Tert butyl alcohol      | 4.654          | 59   | 727                   | 1623.61  | ug/l # | 73       |
| 13) Acrolein                | 3.544          | 56   | 1070                  | 2860.99  | ug/l # | 43       |
| 14) Allyl chloride          | 4.466          | 41   | 236                   | 55.54    | ug/l # | 25       |
| 16) Acetone                 | 3.758          | 43   | 1602                  | 1462.36  | ug/l   | 99       |
| 17) Carbon Disulfide        | 3.981          | 76   | 1368                  | 197.12   | ug/l # | 74       |
| 18) Methyl Acetate          | 4.260          | 43   | 2618                  | 867.35   | ug/l # | 73       |
| 20) Methylene Chloride      | 4.469          | 84   | 9113                  | 3282.58  | ug/l   | 95       |
| 25) 2-Butanone              | 6.768          | 43   | 80                    | 51.94    | ug/l # | 46       |
| 29) Tetrahydrofuran         | 7.146          | 42   | 187                   | 177.71   | ug/l # | 32       |
| 37) Ethyl Acetate           | 6.856          | 43   | 87                    | 22.32    | ug/l # | 68       |
| 40) Benzene                 | 7.980          | 78   | 25                    | 2.19     | ug/l # | 52       |
| 41) Methacrylonitrile       | 7.135          | 41   | 78                    | 44.00    | ug/l # | 100      |
| 49) 1,4-Dioxane             | 9.136          | 88   | 24                    | 593.67   | ug/l # | 26       |
| 71) Bromoform               | 12.338         | 173  | 61                    | 17.07    | ug/l # | 29       |
| -----                       |                |      |                       |          |        |          |

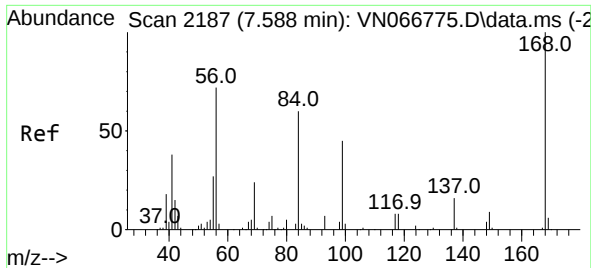
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042821\  
Data File : VN066799.D  
Acq On : 28 Apr 2021 8:55  
Operator : JC/MD  
Sample : BFB  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Apr 29 04:28:43 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 27 16:02:50 2021  
Response via : Initial Calibration

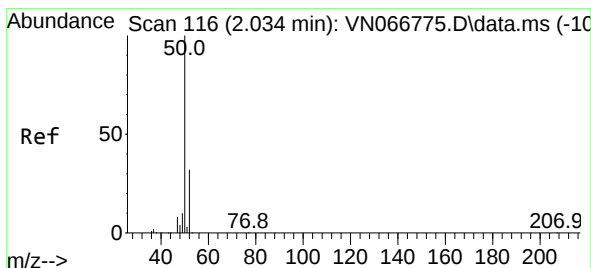
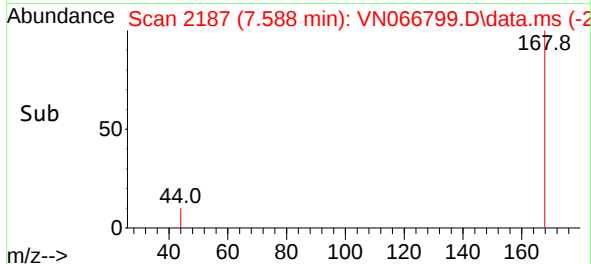
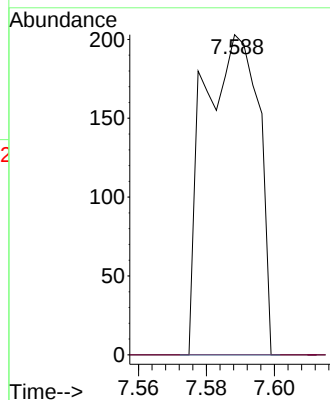
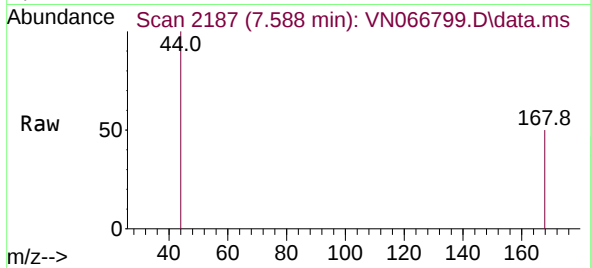




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.588 min Scan# 2187  
Delta R.T. 0.000 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

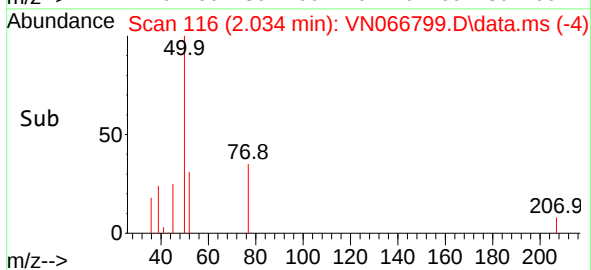
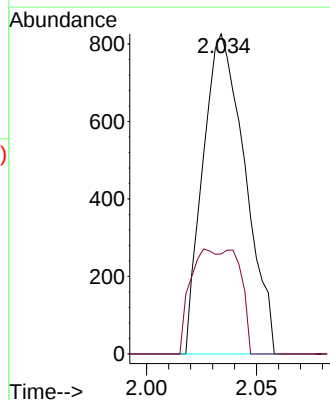
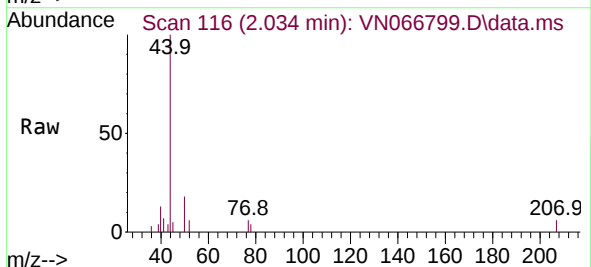
Instrument :  
MSVOA\_N  
ClientSampled :

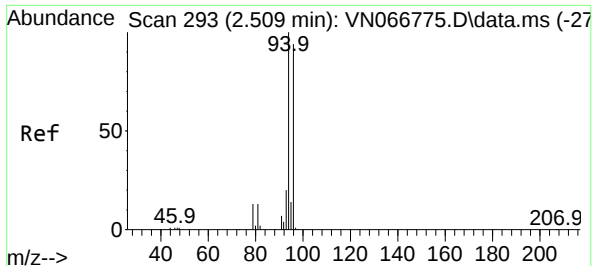
Tgt Ion:168 Resp: 226  
Ion Ratio Lower Upper  
168 100  
99 0.0 42.6 63.8#



#3  
Chloromethane  
Concen: 341.53 ug/l  
RT: 2.034 min Scan# 116  
Delta R.T. -0.000 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

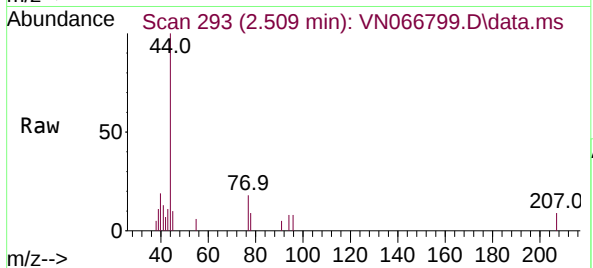
Tgt Ion: 50 Resp: 1098  
Ion Ratio Lower Upper  
50 100  
52 31.2 25.8 38.8



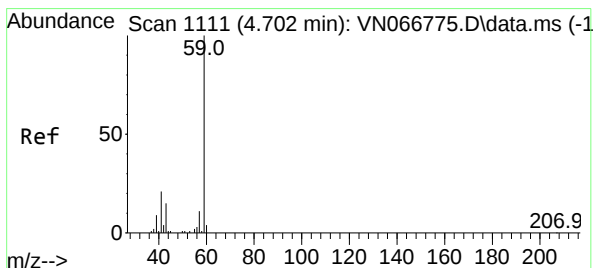
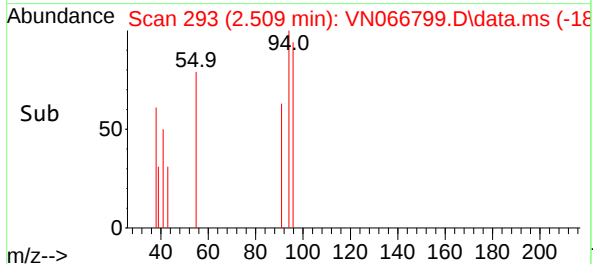
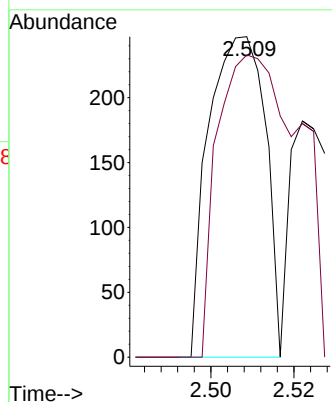


#5  
Bromomethane  
Concen: 114.21 ug/l  
RT: 2.509 min Scan# 293  
Delta R.T. -0.000 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Instrument :  
MSVOA\_N  
ClientSampled :

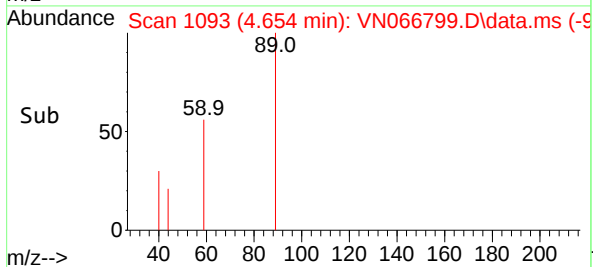
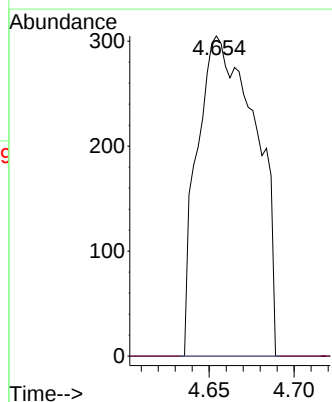
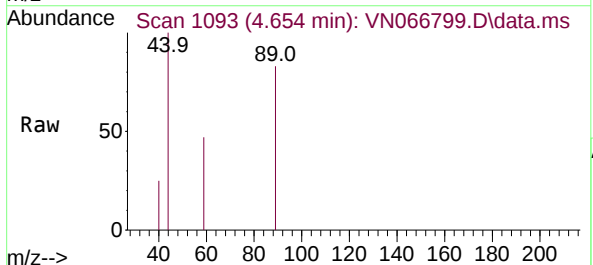


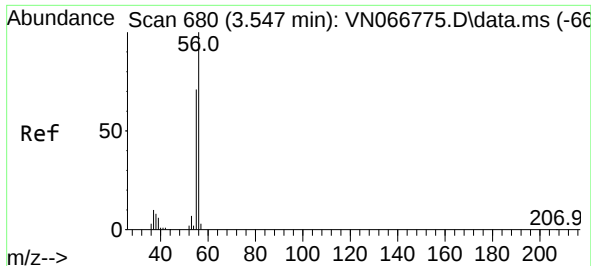
Tgt Ion: 94 Resp: 234  
Ion Ratio Lower Upper  
94 100  
96 94.3 73.0 109.4



#11  
Tert butyl alcohol  
Concen: 1623.61 ug/l  
RT: 4.654 min Scan# 1093  
Delta R.T. -0.048 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 59 Resp: 727  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

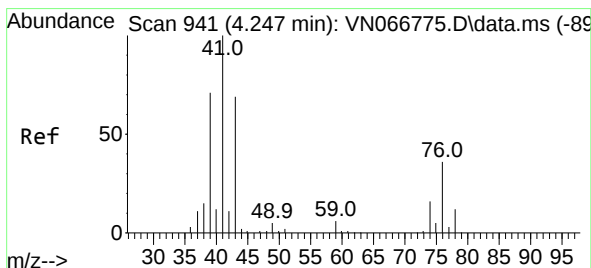
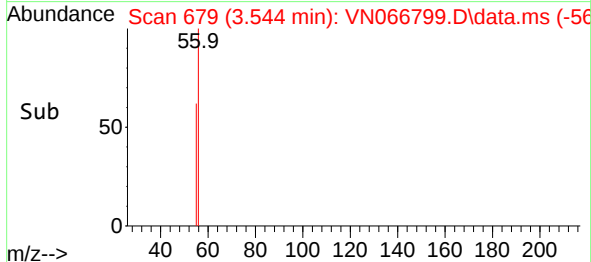
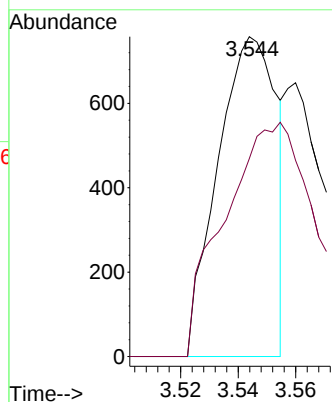
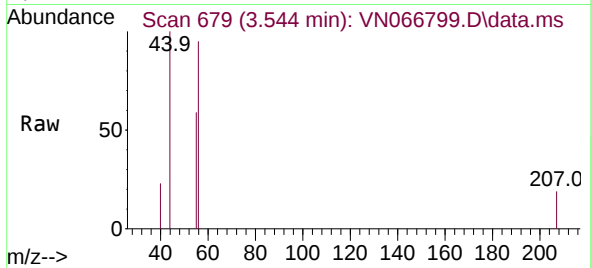




#13  
Acrolein  
Concen: 2860.99 ug/l  
RT: 3.544 min Scan# 679  
Delta R.T. -0.003 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

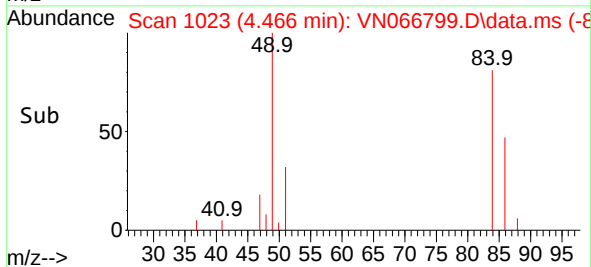
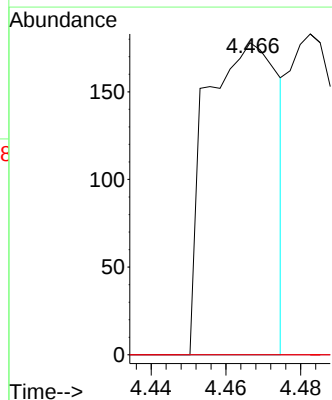
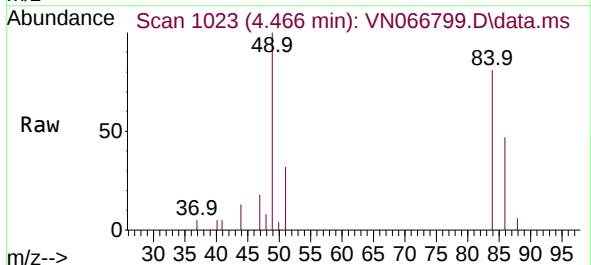
Instrument :  
MSVOA\_N  
ClientSampled :

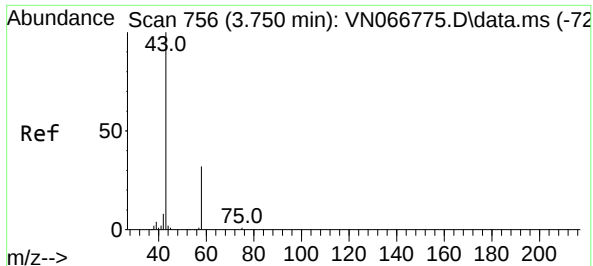
Tgt Ion: 56 Resp: 1070  
Ion Ratio Lower Upper  
56 100  
55 116.9 56.0 84.0#



#14  
Allyl chloride  
Concen: 55.54 ug/l  
RT: 4.466 min Scan# 1023  
Delta R.T. 0.219 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 41 Resp: 236  
Ion Ratio Lower Upper  
41 100  
39 0.0 53.0 79.4#  
76 0.0 28.9 43.3#

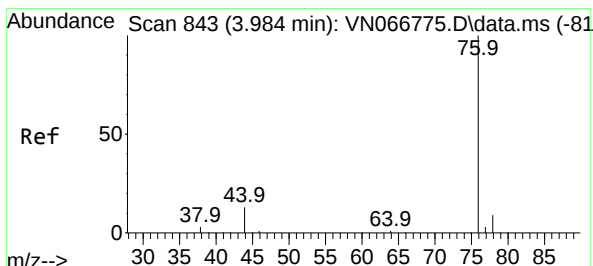
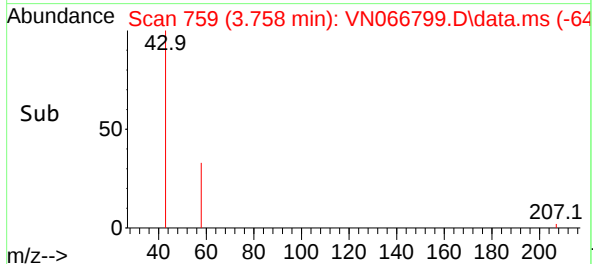
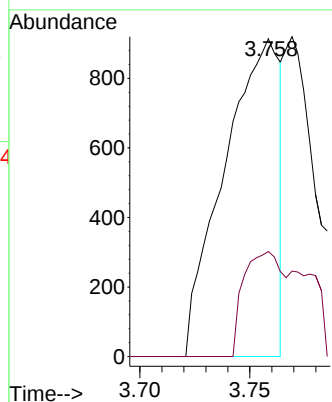
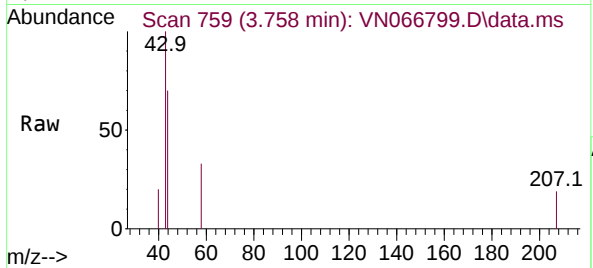




#16  
Acetone  
Concen: 1462.36 ug/l  
RT: 3.758 min Scan# 759  
Delta R.T. 0.008 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

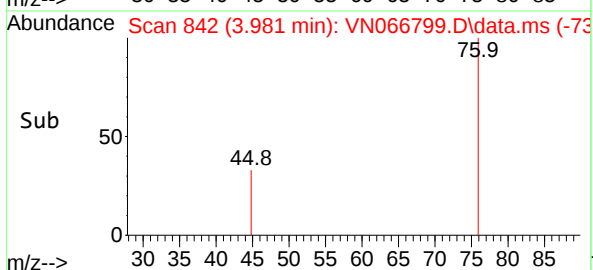
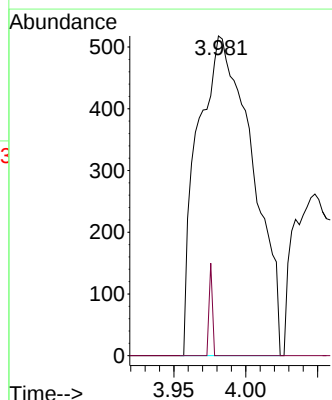
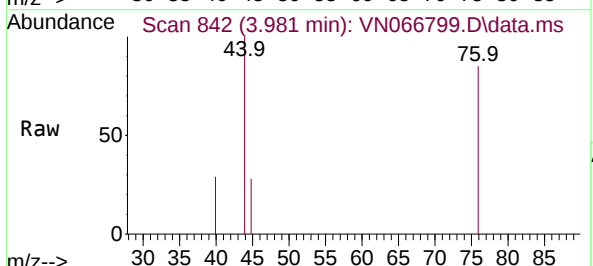
Instrument :  
MSVOA\_N  
ClientSampled :

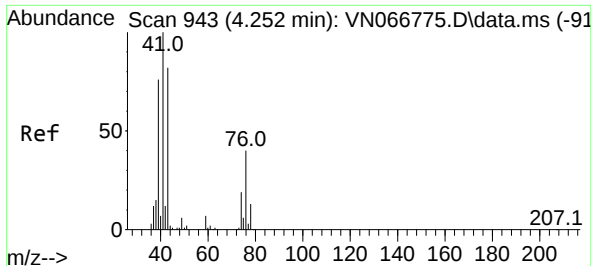
Tgt Ion: 43 Resp: 1602  
Ion Ratio Lower Upper  
43 100  
58 33.0 27.0 40.6



#17  
Carbon Disulfide  
Concen: 197.12 ug/l  
RT: 3.981 min Scan# 842  
Delta R.T. -0.003 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 76 Resp: 1368  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.8 11.6#





#18

Methyl Acetate

Concen: 867.35 ug/l

RT: 4.260 min Scan# 946

Delta R.T. 0.008 min

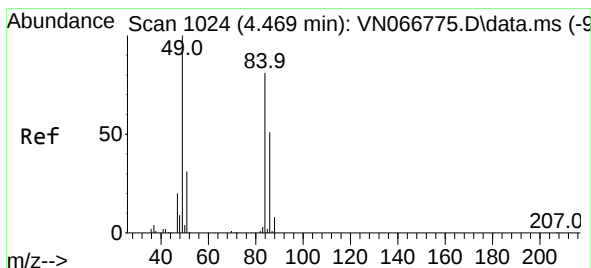
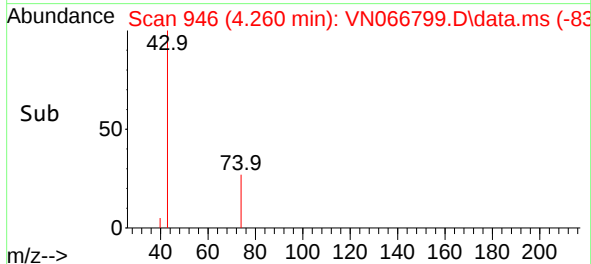
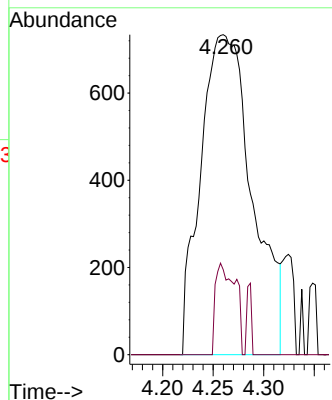
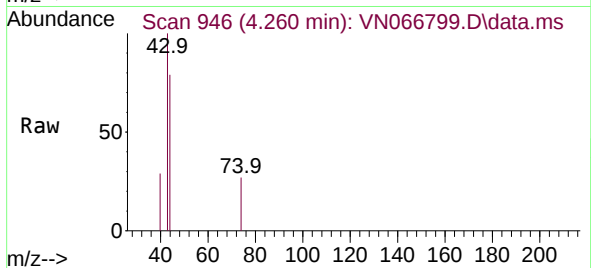
Lab File: VN066799.D

Acq: 28 Apr 2021 8:55

Tgt Ion: 43 Resp: 2618

Ion Ratio Lower Upper

43 100  
74 10.8 19.5 29.3#



#20

Methylene Chloride

Concen: 3282.58 ug/l

RT: 4.469 min Scan# 1024

Delta R.T. 0.000 min

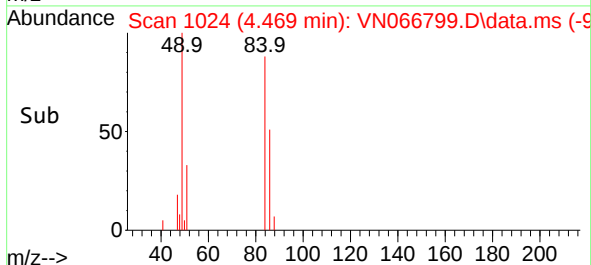
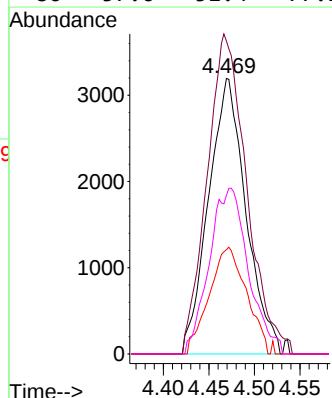
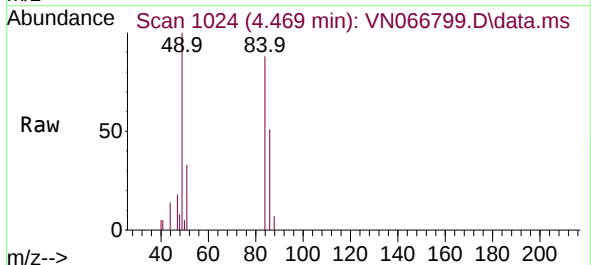
Lab File: VN066799.D

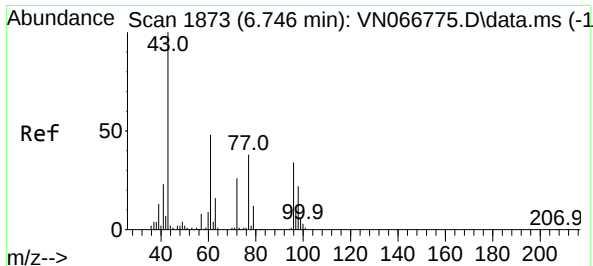
Acq: 28 Apr 2021 8:55

Tgt Ion: 84 Resp: 9113

Ion Ratio Lower Upper

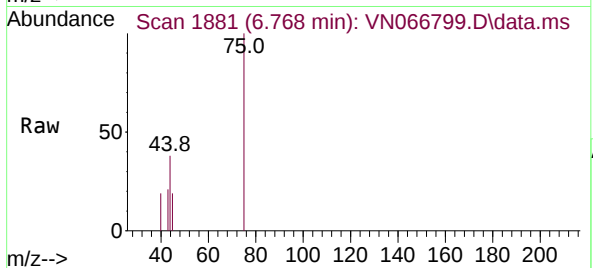
84 100  
49 113.6 94.6 141.8  
51 37.9 29.9 44.9  
86 57.6 51.4 77.2



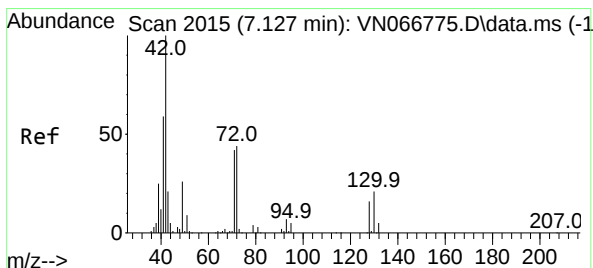
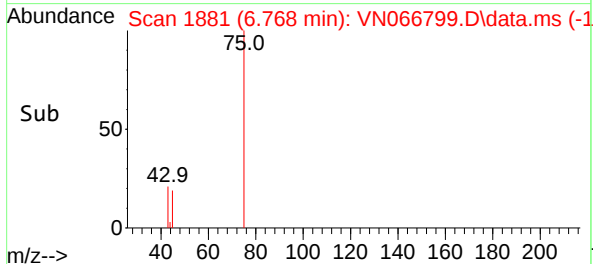
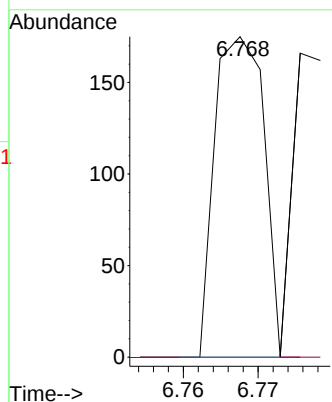


#25  
2-Butanone  
Concen: 51.94 ug/l  
RT: 6.768 min Scan# 1881  
Delta R.T. 0.022 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Instrument :  
MSVOA\_N  
ClientSampled :

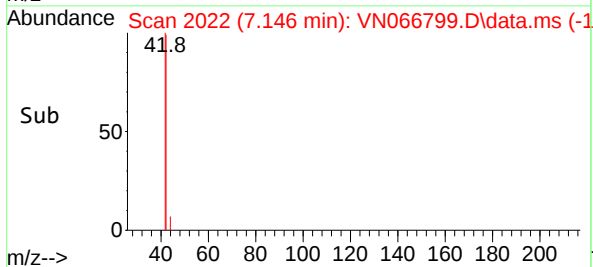
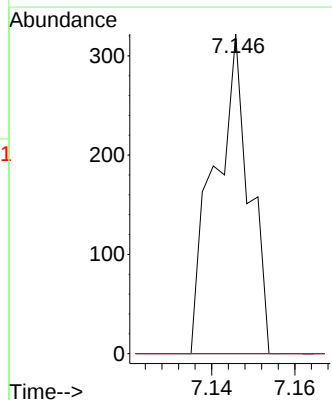
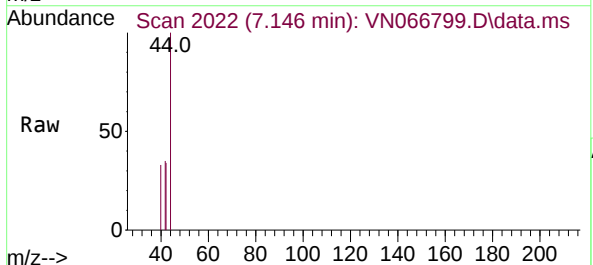


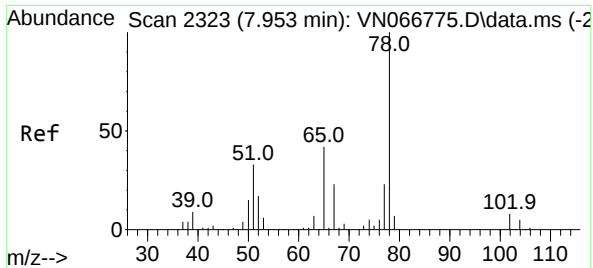
Tgt Ion: 43 Resp: 80  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.1 34.7#



#29  
Tetrahydrofuran  
Concen: 177.71 ug/l  
RT: 7.146 min Scan# 2022  
Delta R.T. 0.019 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 42 Resp: 187  
Ion Ratio Lower Upper  
42 100  
72 0.0 36.6 55.0#  
71 0.0 34.3 51.5#

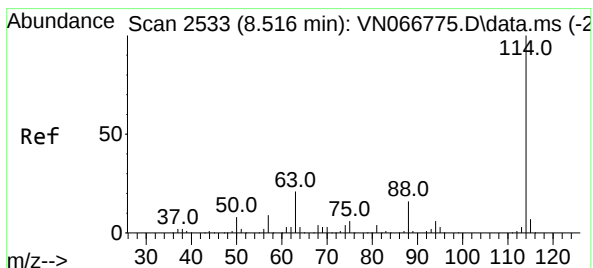
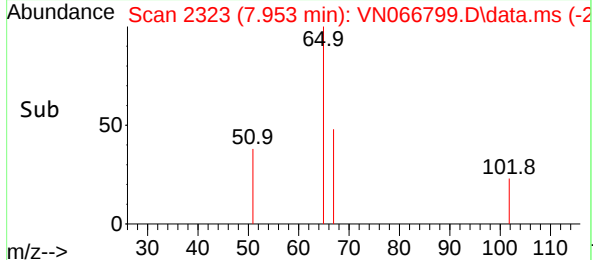
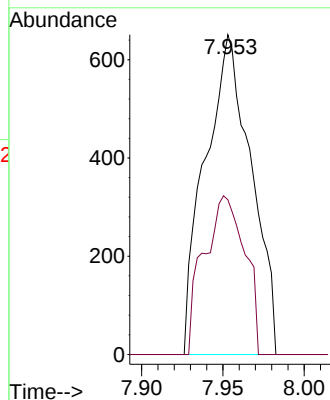
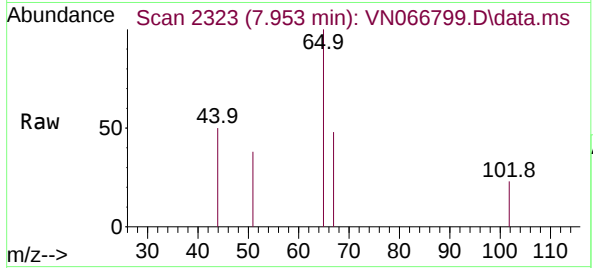




#33  
 1,2-Dichloroethane-d4  
 Concen: 441.85 ug/l  
 RT: 7.953 min Scan# 2323  
 Delta R.T. 0.000 min  
 Lab File: VN066799.D  
 Acq: 28 Apr 2021 8:55

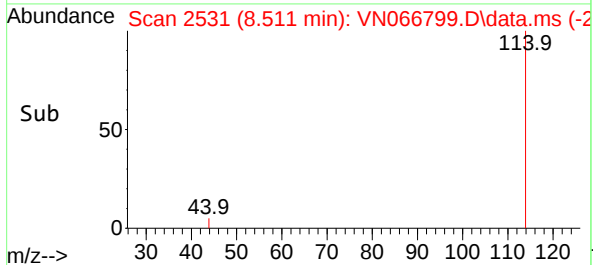
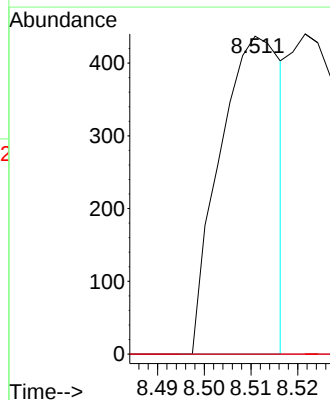
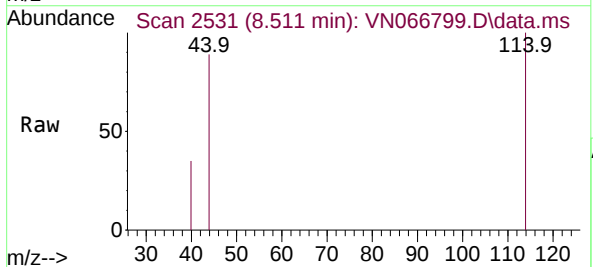
Instrument :  
 MSVOA\_N  
 ClientSampleId :

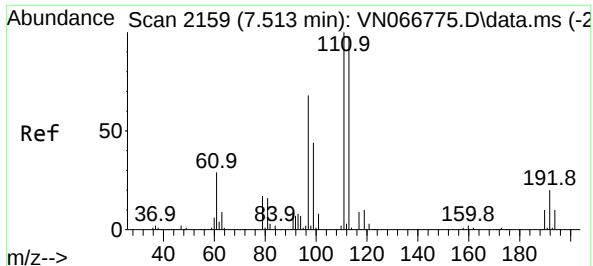
Tgt Ion: 65 Resp: 1283  
 Ion Ratio Lower Upper  
 65 100  
 67 44.1 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.511 min Scan# 2531  
 Delta R.T. -0.005 min  
 Lab File: VN066799.D  
 Acq: 28 Apr 2021 8:55

Tgt Ion: 114 Resp: 395  
 Ion Ratio Lower Upper  
 114 100  
 63 0.0 0.0 38.6  
 88 0.0 0.0 30.6

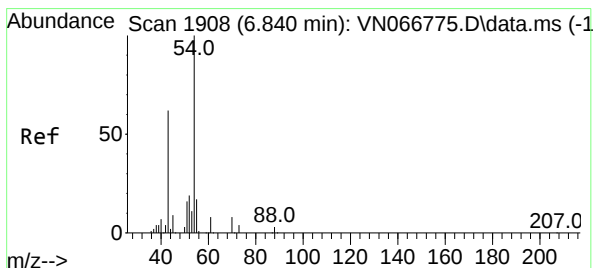
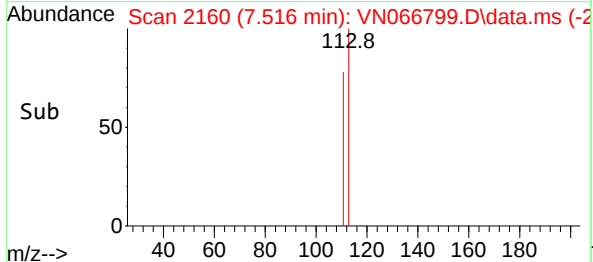
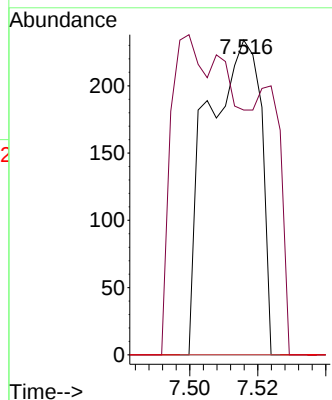
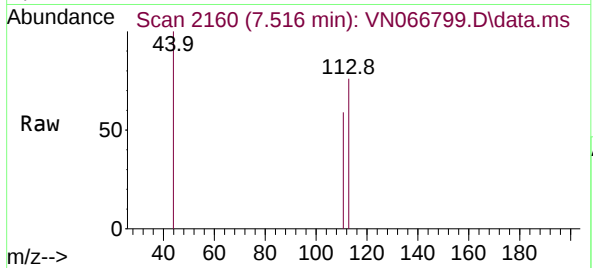




#35  
Dibromofluoromethane  
Concen: 104.99 ug/l  
RT: 7.516 min Scan# 2160  
Delta R.T. 0.003 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

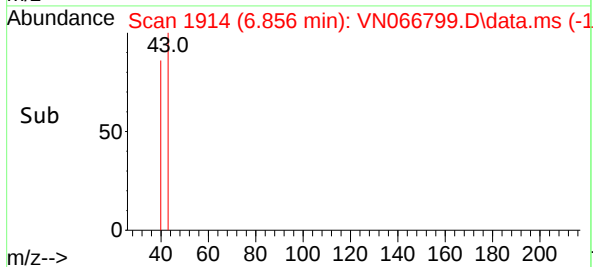
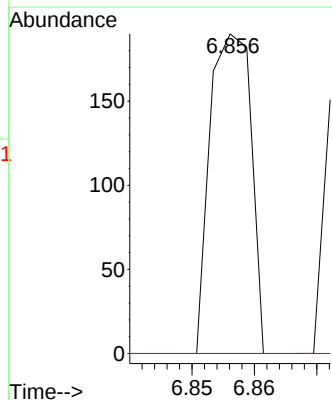
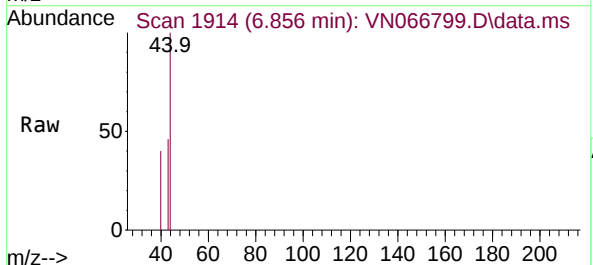
Instrument :  
MSVOA\_N  
ClientSampleId :

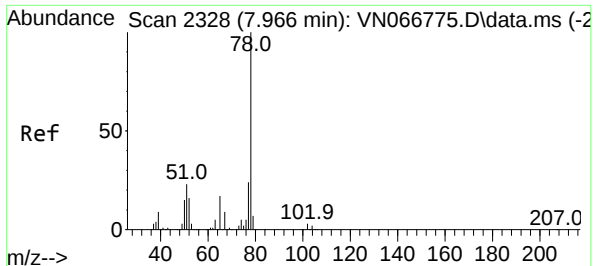
Tgt Ion:113 Resp: 256  
Ion Ratio Lower Upper  
113 100  
111 67.6 82.2 123.2#  
192 0.0 15.4 23.0#



#37  
Ethyl Acetate  
Concen: 22.32 ug/l  
RT: 6.856 min Scan# 1914  
Delta R.T. 0.016 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 43 Resp: 87  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.6 17.4#  
70 0.0 8.6 13.0#

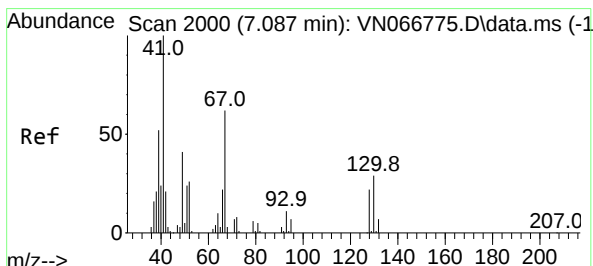
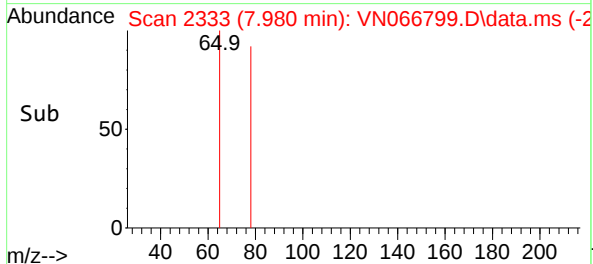
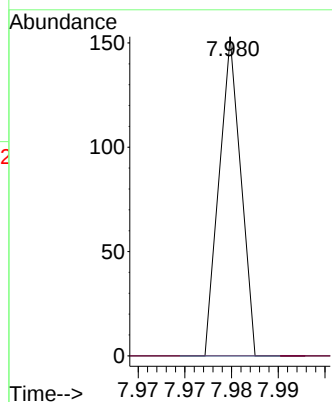
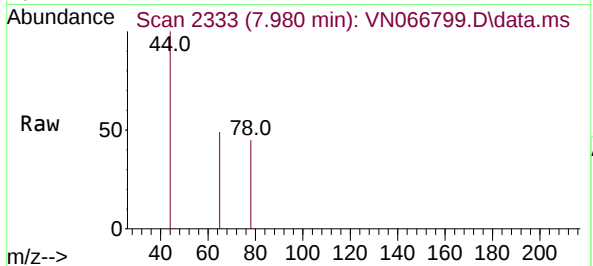




#40  
Benzene  
Concen: 2.19 ug/l  
RT: 7.980 min Scan# 2333  
Delta R.T. 0.014 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

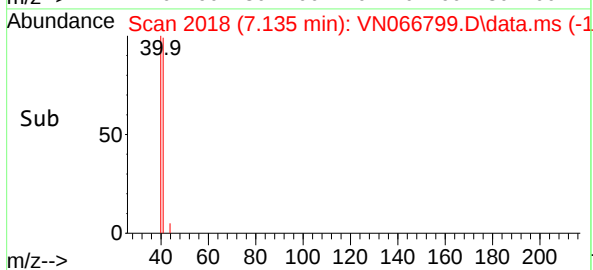
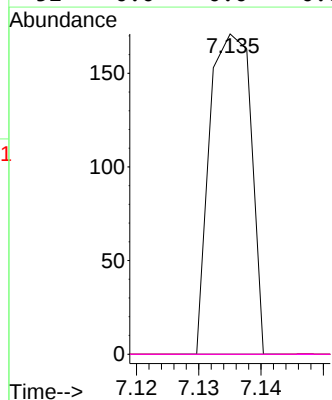
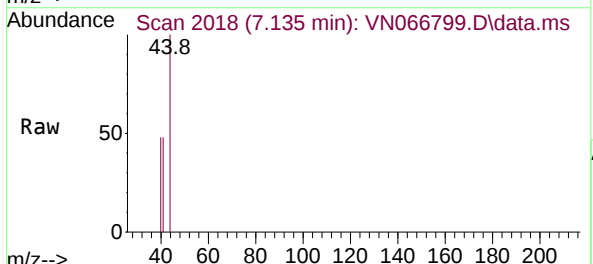
Instrument :  
MSVOA\_N  
ClientSampled :

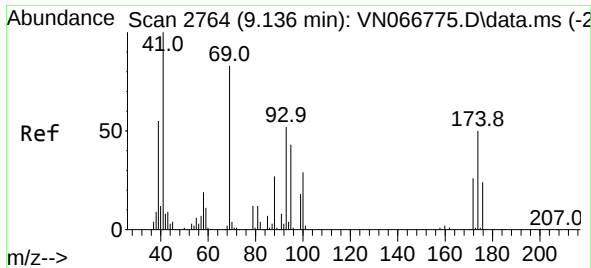
Tgt Ion: 78 Resp: 25  
Ion Ratio Lower Upper  
78 100  
77 0.0 19.0 28.4#



#41  
Methacrylonitrile  
Concen: 44.00 ug/l  
RT: 7.135 min Scan# 2018  
Delta R.T. 0.048 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

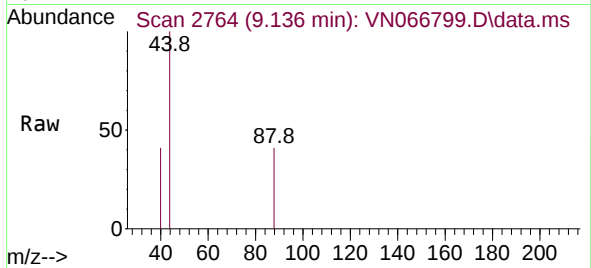
Tgt Ion: 41 Resp: 78  
Ion Ratio Lower Upper  
41 100  
39 0.0 0.0 0.0  
67 0.0 0.0 0.0  
52 0.0 0.0 0.0



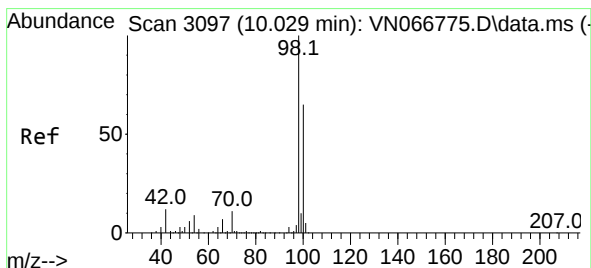
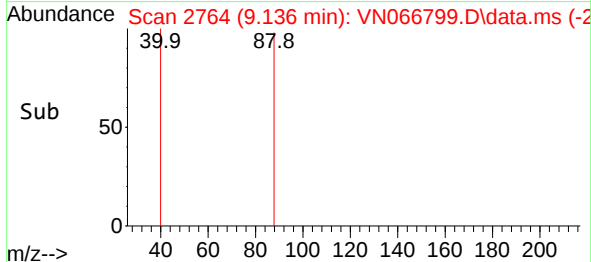
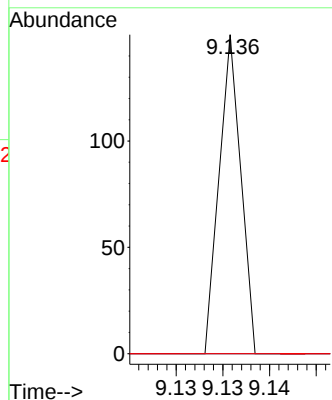


#49  
1,4-Dioxane  
Concen: 593.67 ug/l  
RT: 9.136 min Scan# 2764  
Delta R.T. -0.000 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Instrument :  
MSVOA\_N  
ClientSampled :

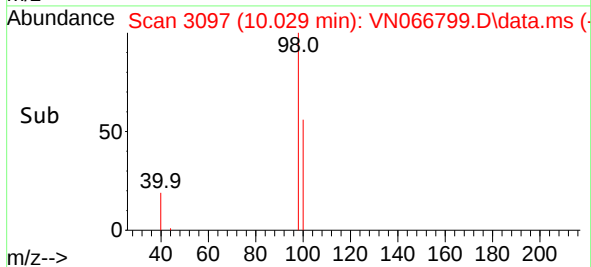
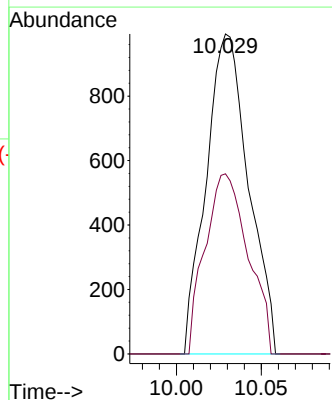
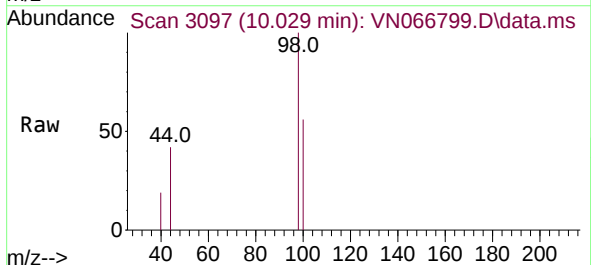


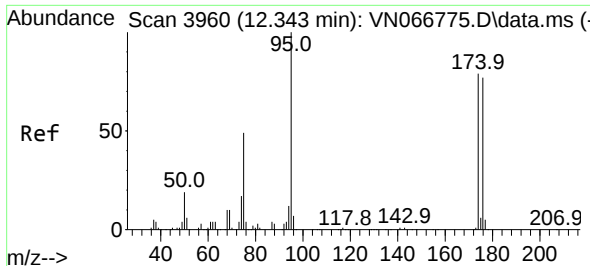
Tgt Ion: 88 Resp: 24  
Ion Ratio Lower Upper  
88 100  
43 0.0 24.7 37.1#  
58 0.0 52.6 78.8#



#50  
Toluene-d8  
Concen: 180.03 ug/l  
RT: 10.029 min Scan# 3097  
Delta R.T. -0.000 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 98 Resp: 1723  
Ion Ratio Lower Upper  
98 100  
100 57.2 50.5 75.7

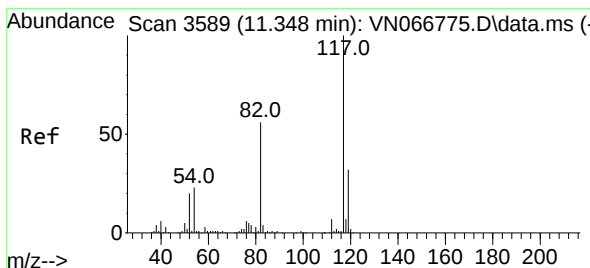
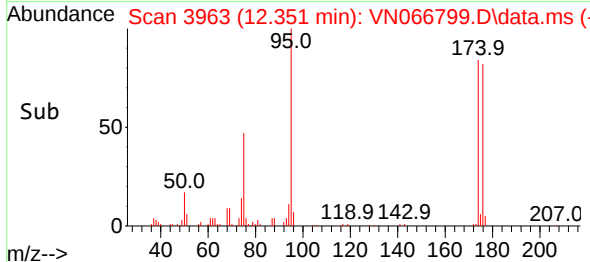
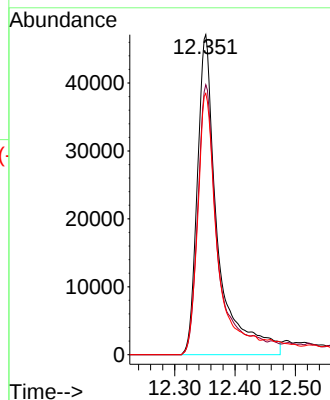
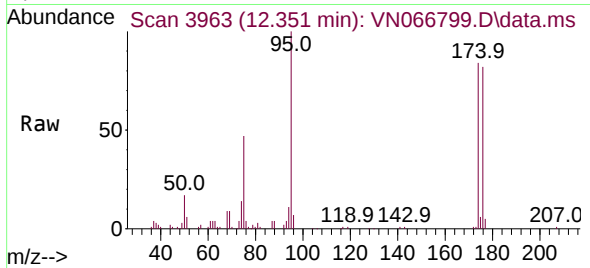




#62  
4-Bromofluorobenzene  
Concen: 34107.99 ug/l  
RT: 12.351 min Scan# 3963  
Delta R.T. 0.008 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

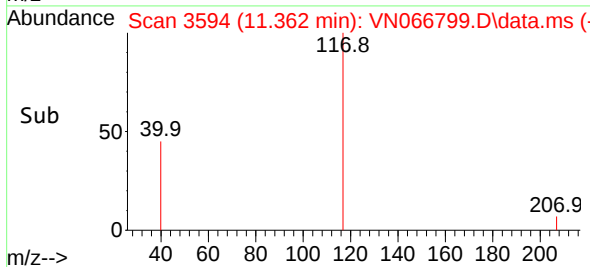
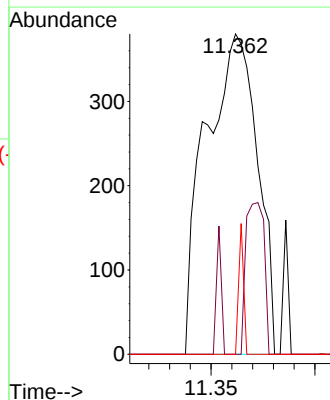
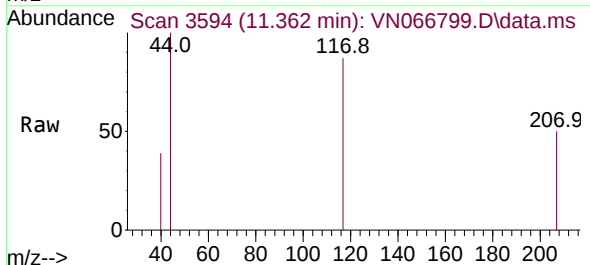
Instrument :  
MSVOA\_N  
ClientSampled :

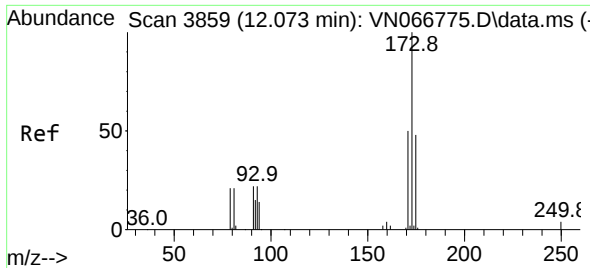
Tgt Ion: 95 Resp: 110449  
Ion Ratio Lower Upper  
95 100  
174 79.6 0.0 169.0  
176 79.7 0.0 162.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.362 min Scan# 3594  
Delta R.T. 0.014 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

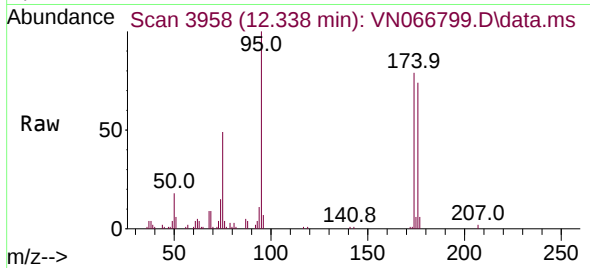
Tgt Ion: 117 Resp: 658  
Ion Ratio Lower Upper  
117 100  
82 0.0 43.7 65.5#  
119 0.0 26.1 39.1#



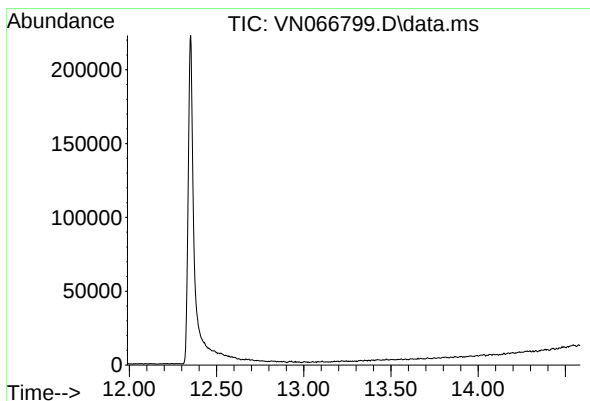
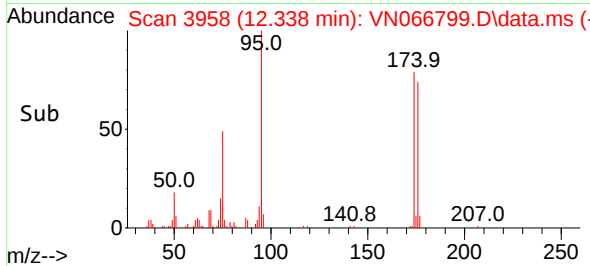
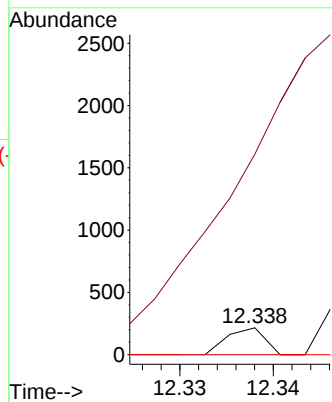


#71  
Bromoform  
Concen: 17.07 ug/l  
RT: 12.338 min Scan# 3958  
Delta R.T. 0.265 min  
Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Instrument :  
MSVOA\_N  
ClientSampled :



Tgt Ion: 173 Resp: 61  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.8 71.2#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 0.00 ug/l  
Expected RT: 13.29 min

Lab File: VN066799.D  
Acq: 28 Apr 2021 8:55

Tgt Ion: 152  
Sig Exp Ratio  
152 100  
115 57.1  
150 173.8

