

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110222\  
 Data File : VN075117.D  
 Acq On : 02 Nov 2022 15:15  
 Operator : JC\MD  
 Sample : N5396-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-A

Quant Time: Nov 03 04:17:50 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

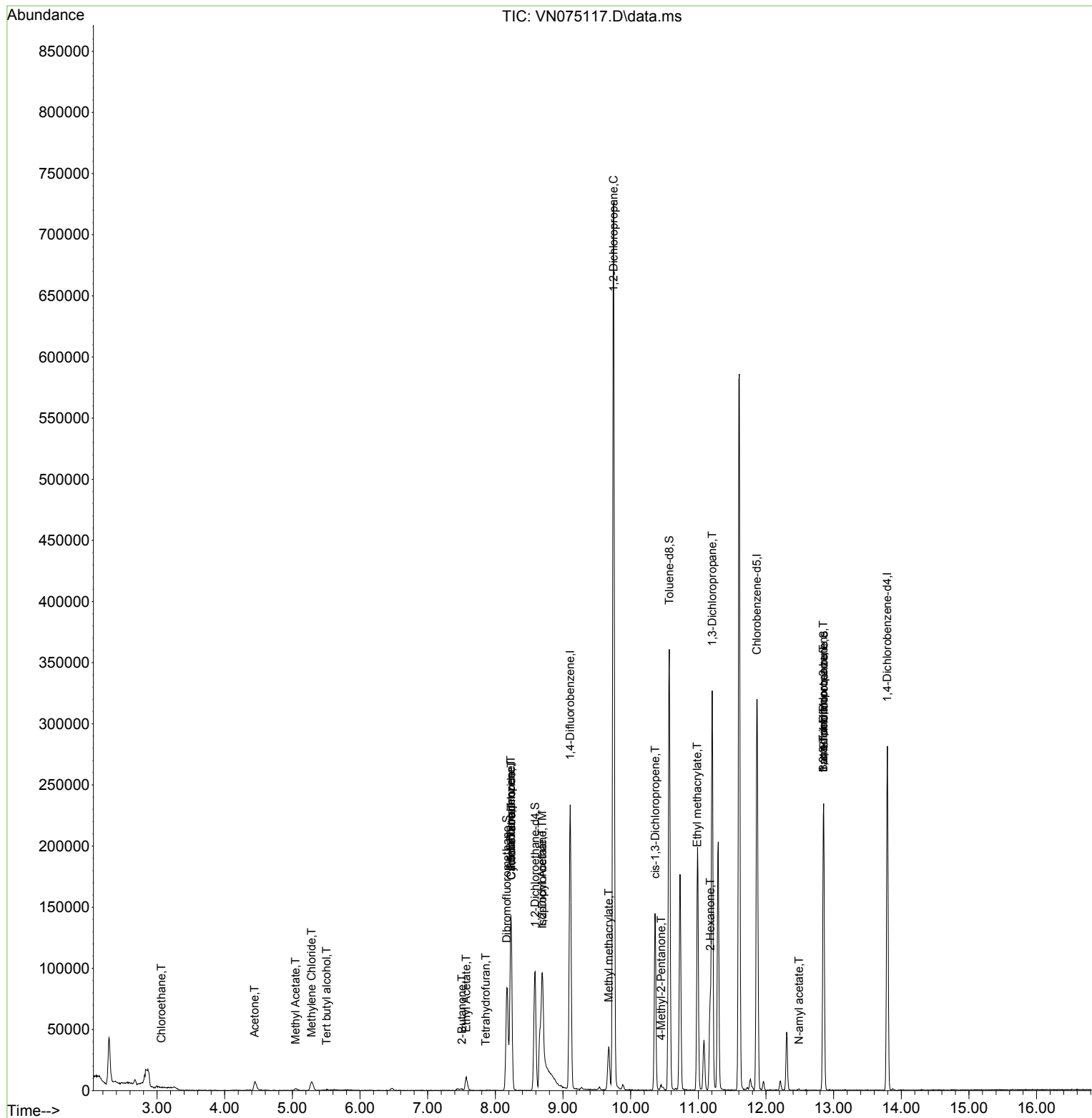
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 100306   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 196469   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 183290   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 70537    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 80467    | 59.539   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 119.080% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 61169    | 53.035   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 106.060% |          |
| 50) Toluene-d8                | 10.571 | 98    | 247833   | 55.384   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 110.760% |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 78985    | 50.248   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 100.500% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 6) Chloroethane               | 3.065  | 64    | 509      | 0.359    | ug/l #     | 45       |
| 11) Tert butyl alcohol        | 5.506  | 59    | 190      | 0.603    | ug/l #     | 72       |
| 16) Acetone                   | 4.442  | 43    | 14167    | 24.756   | ug/l       | 96       |
| 18) Methyl Acetate            | 5.047  | 43    | 2851     | 1.525    | ug/l       | 92       |
| 20) Methylene Chloride        | 5.283  | 84    | 5952     | 4.665    | ug/l       | 93       |
| 25) 2-Butanone                | 7.506  | 43    | 2415     | 2.683    | ug/l #     | 75       |
| 29) Tetrahydrofuran           | 7.859  | 42    | 140      | 0.241    | ug/l #     | 26       |
| 31) Cyclohexane               | 8.235  | 56    | 2555     | 1.271    | ug/l #     | 35       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 9133     | 5.115    | ug/l #     | 50       |
| 37) Ethyl Acetate             | 7.571  | 43    | 15286    | 7.806    | ug/l       | 97       |
| 38) Carbon Tetrachloride      | 8.235  | 117   | 11454    | 5.831    | ug/l #     | 15       |
| 42) 1,2-Dichloroethane        | 8.694  | 62    | 599      | 0.301    | ug/l #     | 75       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 189717   | 62.458   | ug/l #     | 67       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 903      | 0.694    | ug/l #     | 42       |
| 48) Methyl methacrylate       | 9.677  | 41    | 2135     | 1.532    | ug/l #     | 6        |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43    | 5246     | 2.676    | ug/l #     | 62       |
| 54) cis-1,3-Dichloropropene   | 10.365 | 75    | 26104    | 11.878   | ug/l #     | 65       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 587      | 0.266    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 3193     | 1.323    | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.176 | 43    | 53935    | 36.255   | ug/l #     | 21       |
| 71) Bromoform                 | 12.847 | 173   | 365      | 0.336    | ug/l #     | 1        |
| 74) N-amyl acetate            | 12.488 | 43    | 550      | 0.263    | ug/l #     | 38       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 44164    | 29.488   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 44164    | 75.696   | ug/l #     | 10       |
| -----                         |        |       |          |          |            |          |

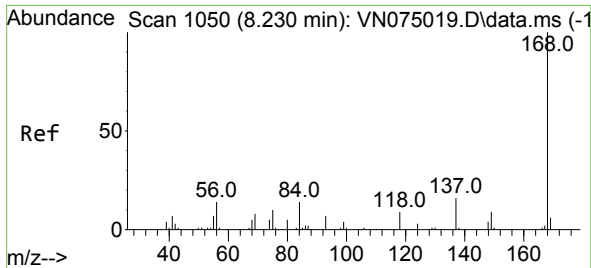
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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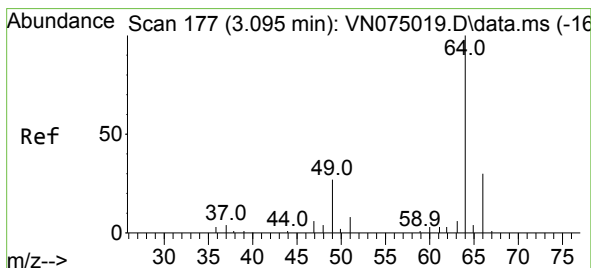
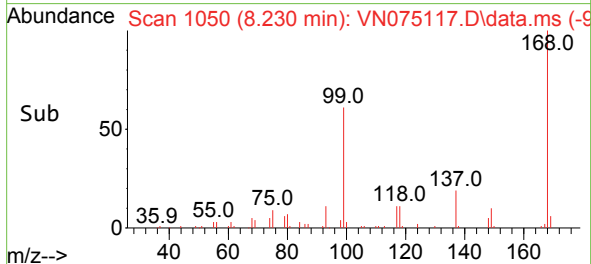
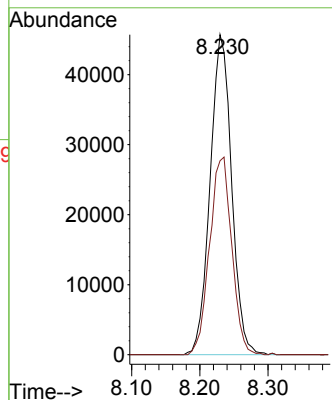
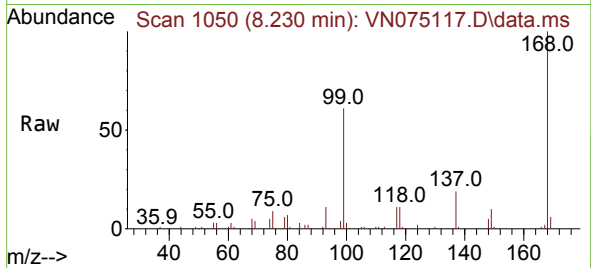




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

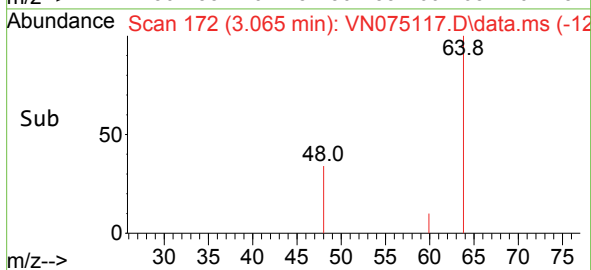
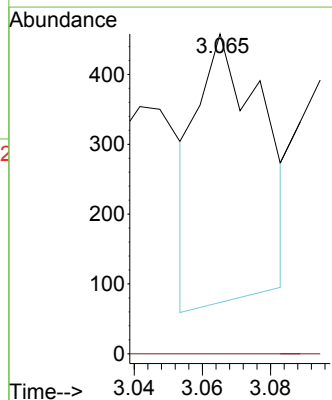
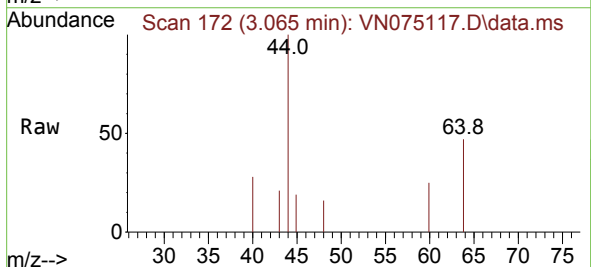
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

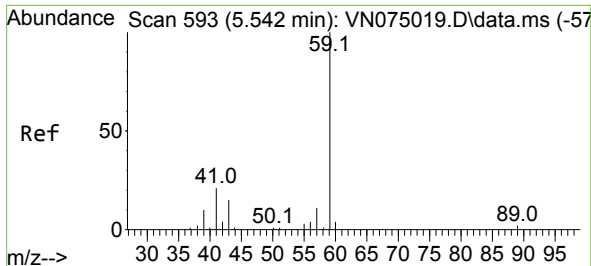
Tgt Ion:168 Resp: 100306  
Ion Ratio Lower Upper  
168 100  
99 60.6 51.6 77.4



#6  
Chloroethane  
Concen: 0.359 ug/l  
RT: 3.065 min Scan# 172  
Delta R.T. -0.030 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 64 Resp: 509  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.8 35.8#

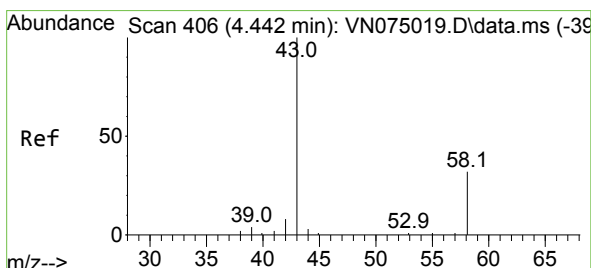
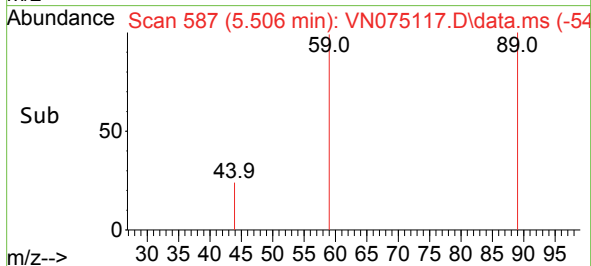
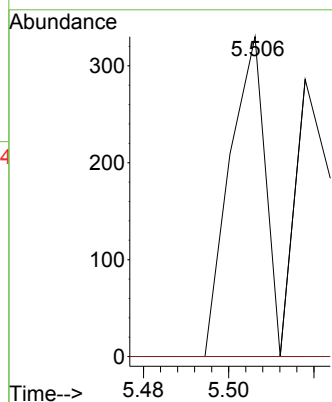
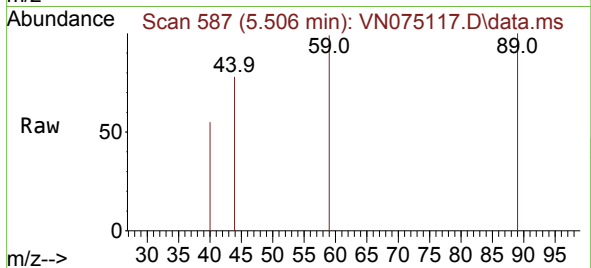




#11  
Tert butyl alcohol  
Concen: 0.603 ug/l  
RT: 5.506 min Scan# 51  
Delta R.T. -0.036 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

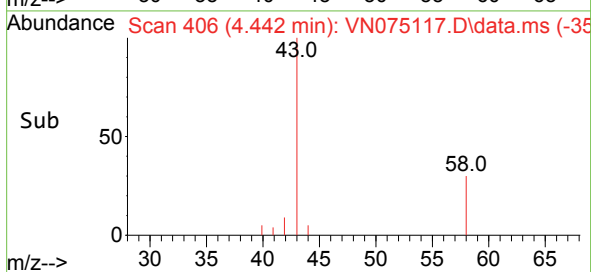
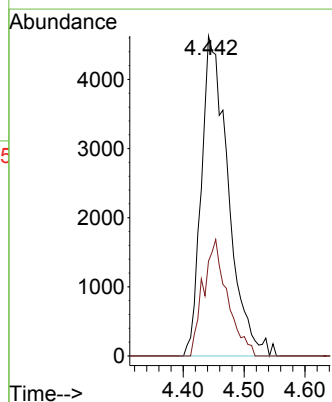
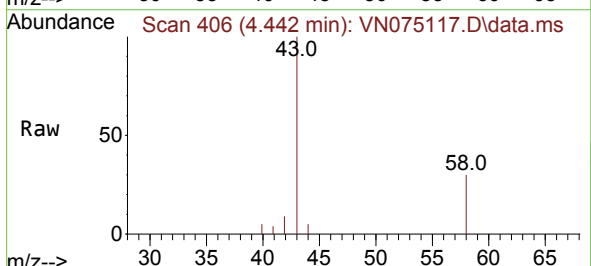
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

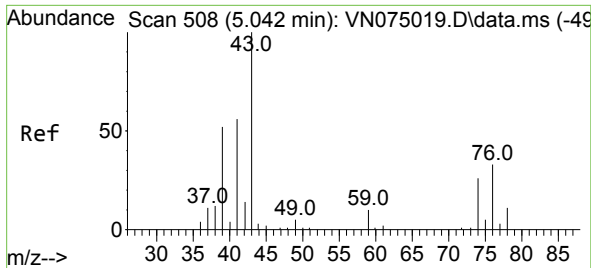
Tgt Ion: 59 Resp: 190  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#16  
Acetone  
Concen: 24.756 ug/l  
RT: 4.442 min Scan# 406  
Delta R.T. -0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 43 Resp: 14167  
Ion Ratio Lower Upper  
43 100  
58 29.6 25.5 38.3

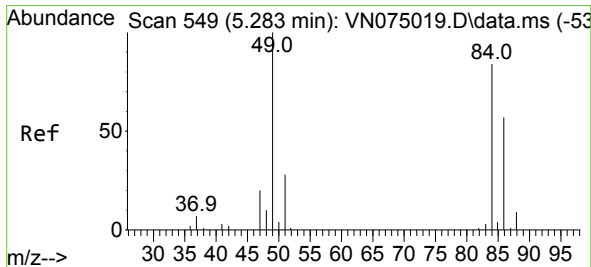
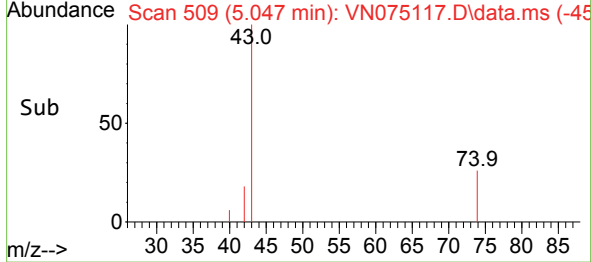
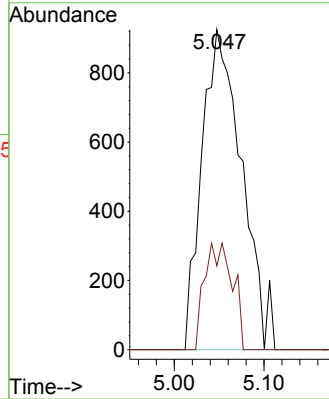
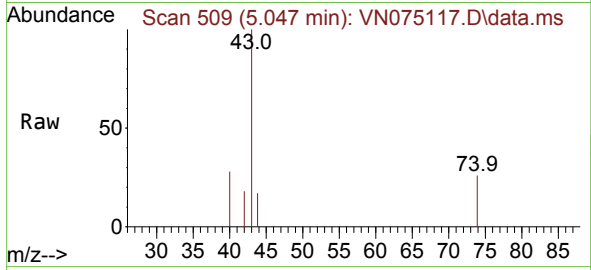




#18  
Methyl Acetate  
Concen: 1.525 ug/l  
RT: 5.047 min Scan# 508  
Delta R.T. 0.005 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

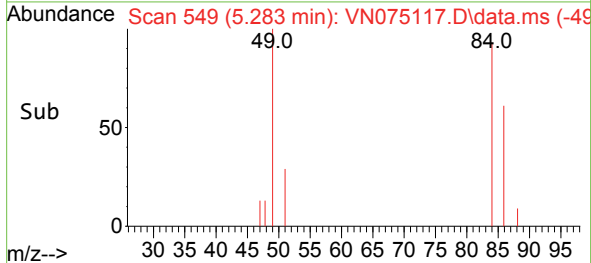
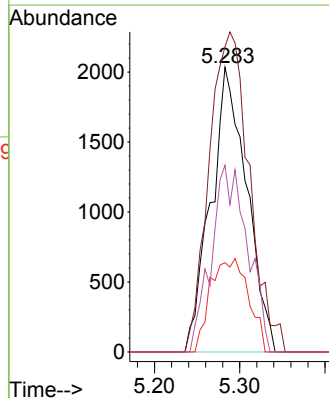
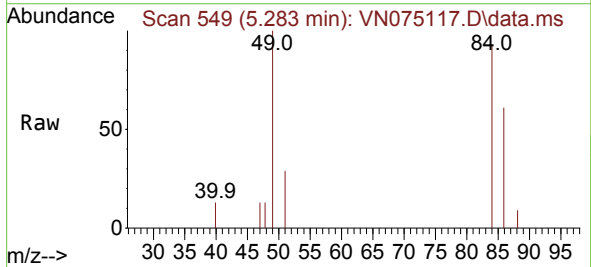
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

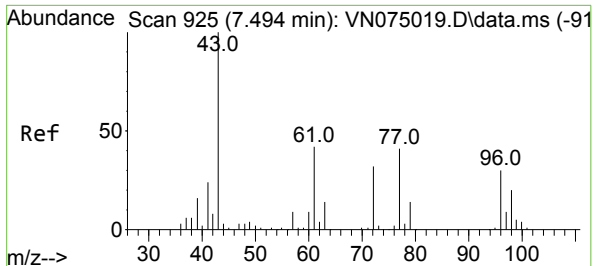
Tgt Ion: 43 Resp: 2851  
Ion Ratio Lower Upper  
43 100  
74 23.3 22.0 33.0



#20  
Methylene Chloride  
Concen: 4.665 ug/l  
RT: 5.283 min Scan# 549  
Delta R.T. -0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 84 Resp: 5952  
Ion Ratio Lower Upper  
84 100  
49 107.3 94.9 142.3  
51 31.4 26.8 40.2  
86 65.6 53.7 80.5





#25

2-Butanone

Concen: 2.683 ug/l

RT: 7.506 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

Instrument :

MSVOA\_N

ClientSampleId :

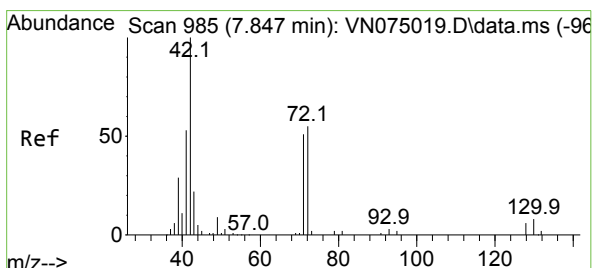
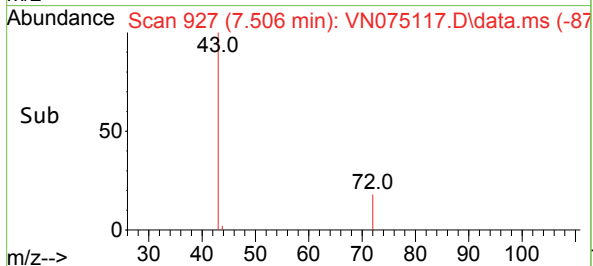
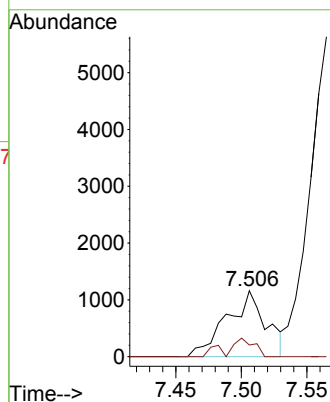
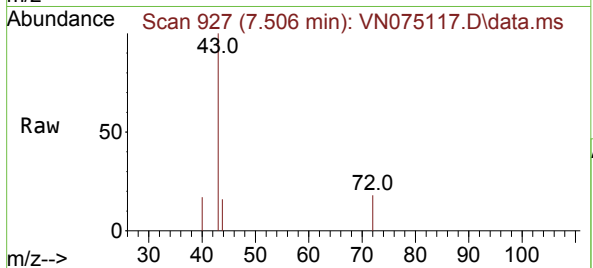
TP-A

Tgt Ion: 43 Resp: 2415

Ion Ratio Lower Upper

43 100

72 17.8 25.5 38.3#



#29

Tetrahydrofuran

Concen: 0.241 ug/l

RT: 7.859 min Scan# 987

Delta R.T. 0.012 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

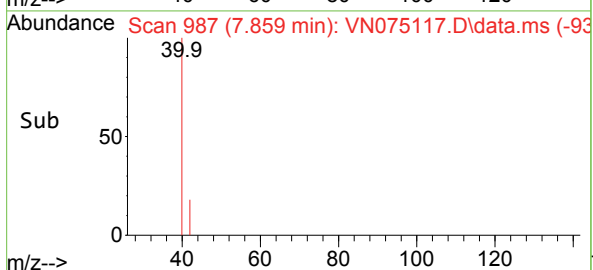
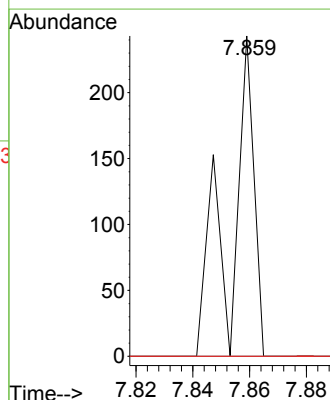
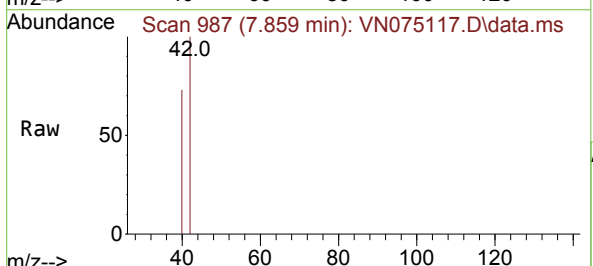
Tgt Ion: 42 Resp: 140

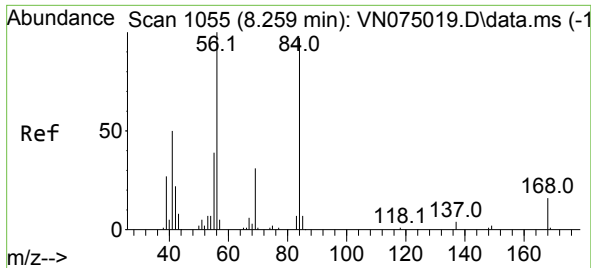
Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.6#

71 0.0 39.9 59.9#

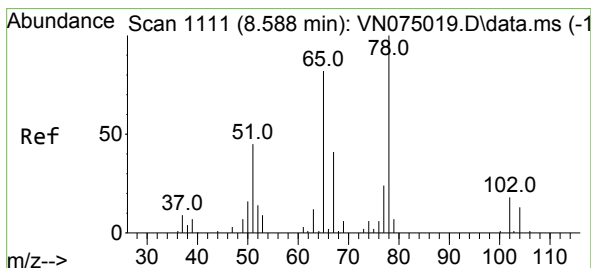
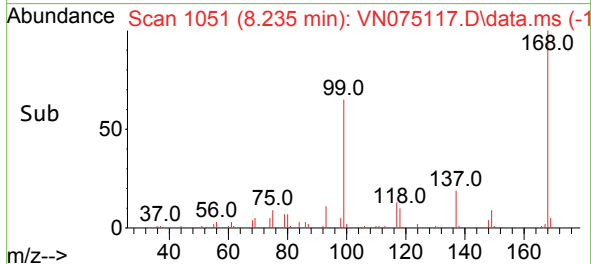
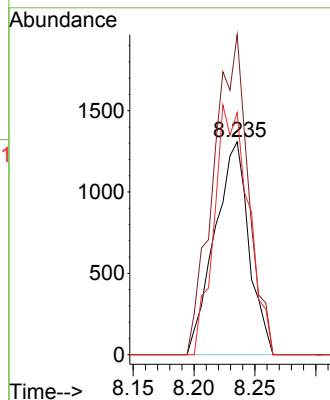
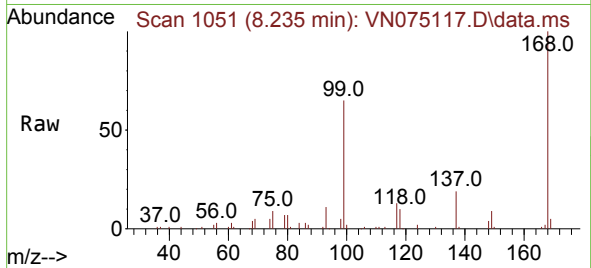




#31  
Cyclohexane  
Concen: 1.271 ug/l  
RT: 8.235 min Scan# 1051  
Delta R.T. -0.024 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

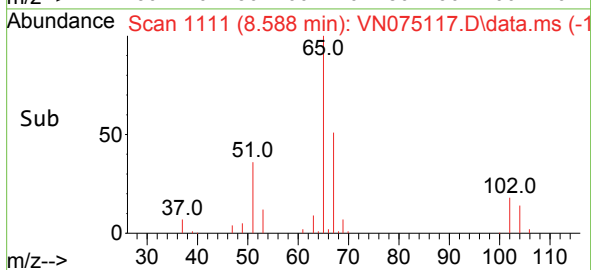
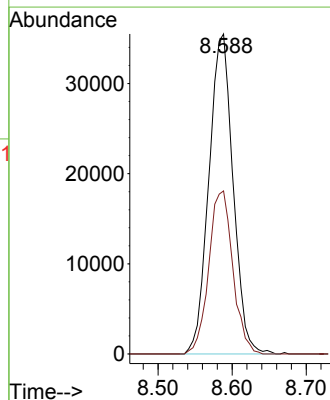
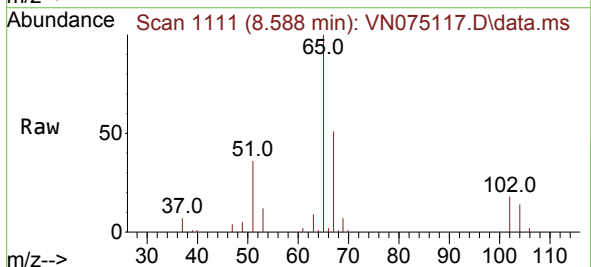
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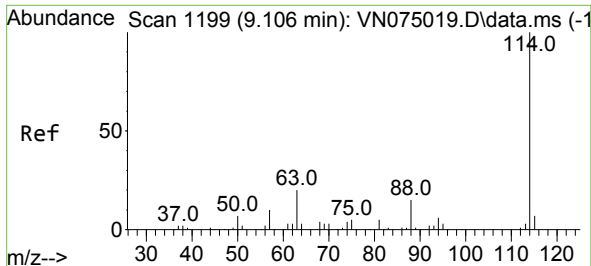
Tgt Ion: 56 Resp: 2555  
Ion Ratio Lower Upper  
56 100  
69 150.4 25.2 37.8#  
84 113.8 77.8 116.8



#33  
1,2-Dichloroethane-d4  
Concen: 59.539 ug/l  
RT: 8.588 min Scan# 1111  
Delta R.T. 0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 65 Resp: 80467  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

Instrument :

MSVOA\_N

ClientSampleId :

TP-A

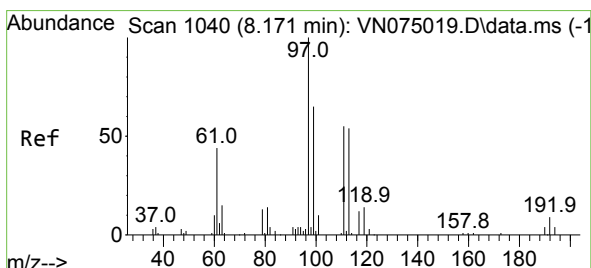
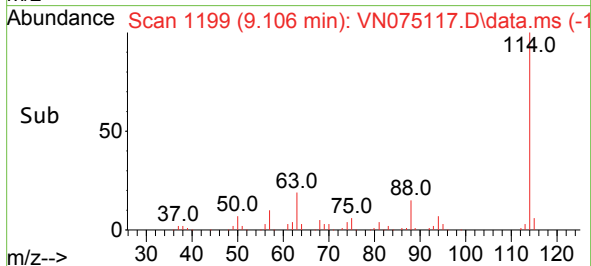
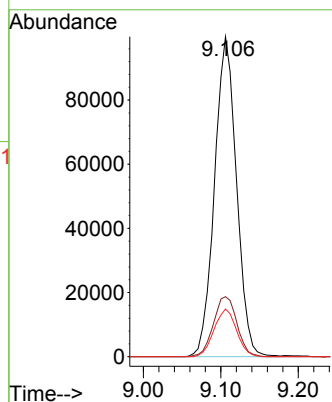
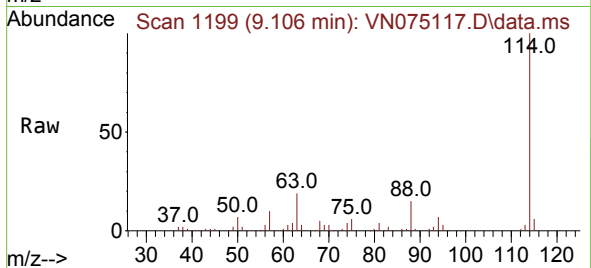
Tgt Ion:114 Resp: 196469

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

88 14.9 0.0 29.0



#35

Dibromofluoromethane

Concen: 53.035 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

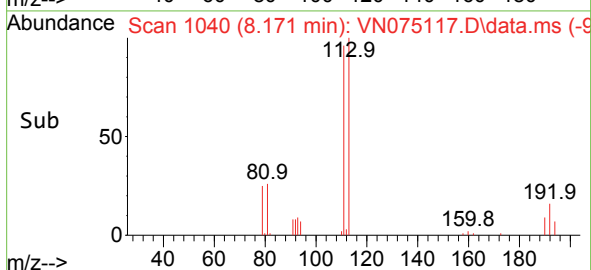
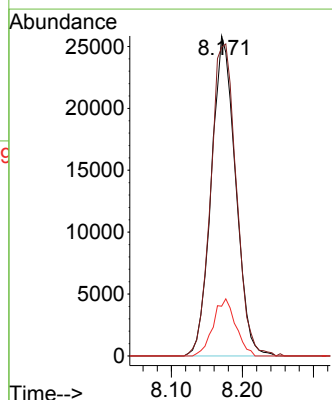
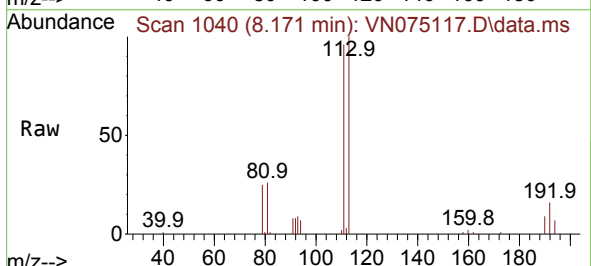
Tgt Ion:113 Resp: 61169

Ion Ratio Lower Upper

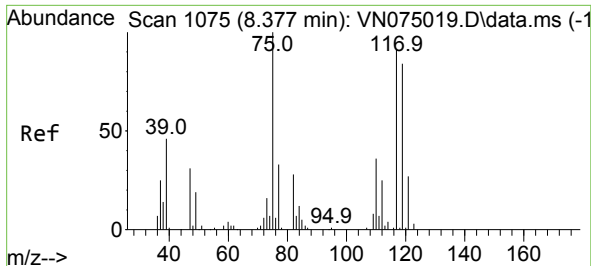
113 100

111 102.8 80.5 120.7

192 16.6 13.2 19.8







#36

1,1-Dichloropropene

Concen: 5.115 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

Instrument :

MSVOA\_N

ClientSampleId :

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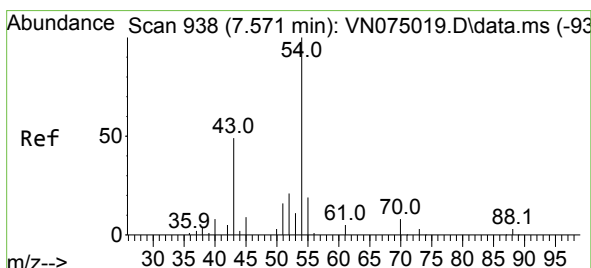
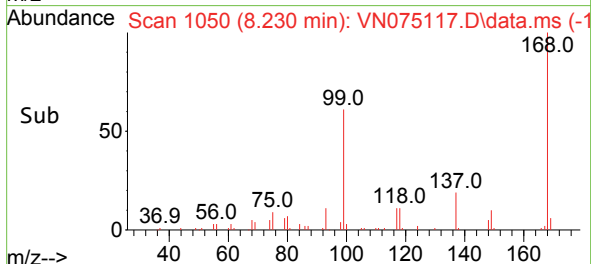
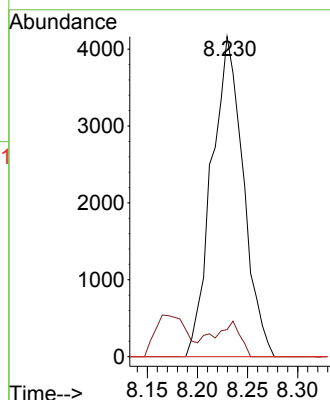
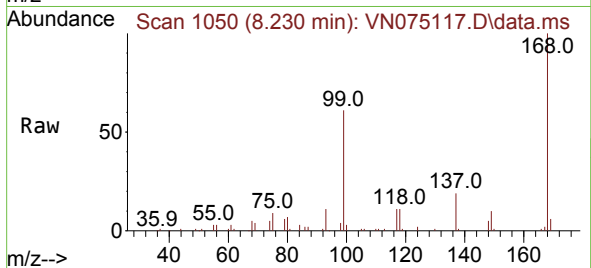
Tgt Ion: 75 Resp: 9133

Ion Ratio Lower Upper

75 100

110 9.4 17.8 53.3#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 7.806 ug/l

RT: 7.571 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

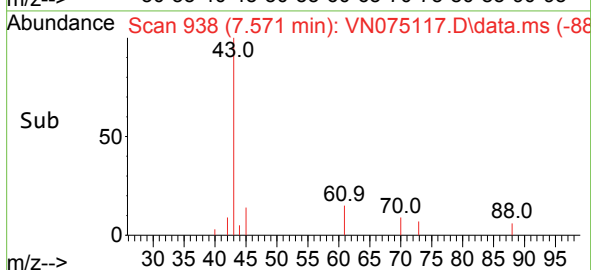
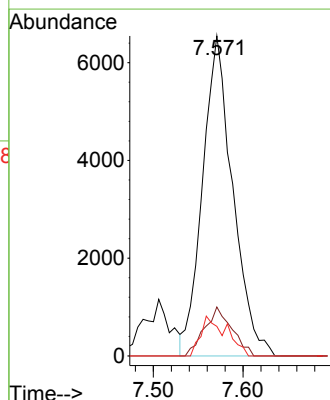
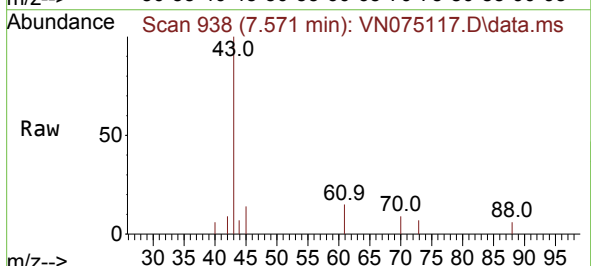
Tgt Ion: 43 Resp: 15286

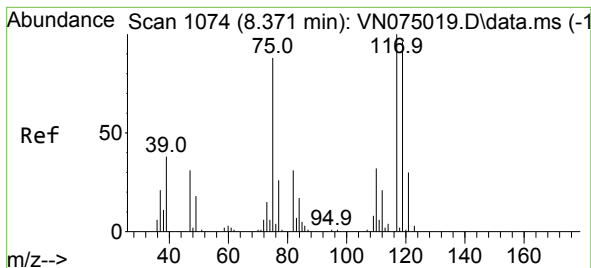
Ion Ratio Lower Upper

43 100

61 13.9 12.2 18.4

70 10.6 9.4 14.2





#38

Carbon Tetrachloride

Concen: 5.831 ug/l

RT: 8.235 min Scan# 110

Delta R.T. -0.136 min

Lab File: VN075117.D

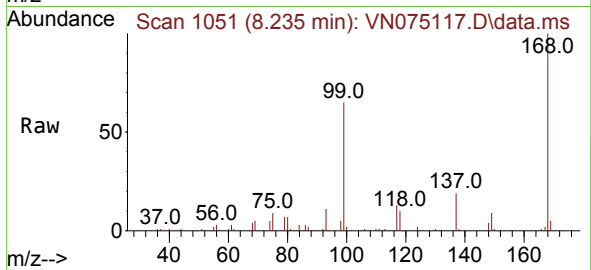
Acq: 02 Nov 2022 15:15

Instrument :

MSVOA\_N

ClientSampleId :

TP-A



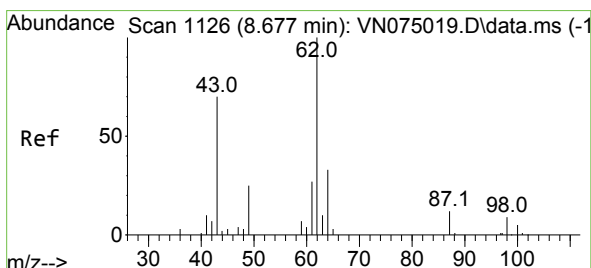
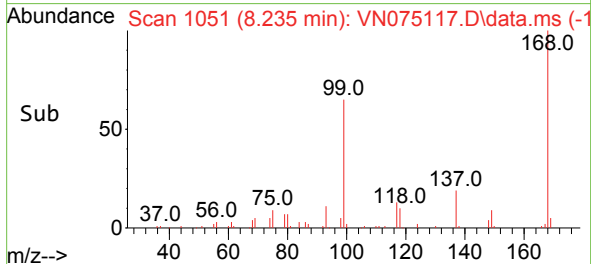
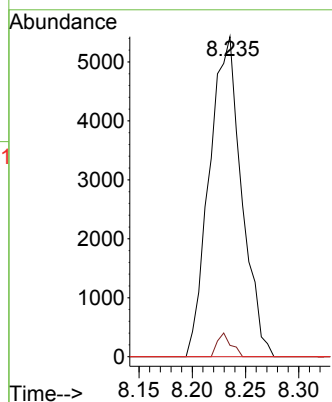
Tgt Ion:117 Resp: 11454

Ion Ratio Lower Upper

117 100

119 3.6 76.7 115.1#

121 0.0 23.9 35.9#



#42

1,2-Dichloroethane

Concen: 0.301 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.017 min

Lab File: VN075117.D

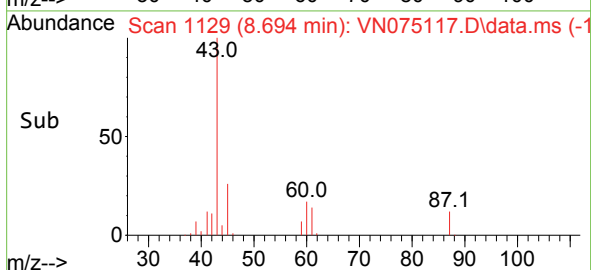
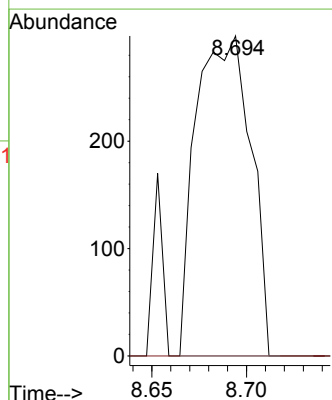
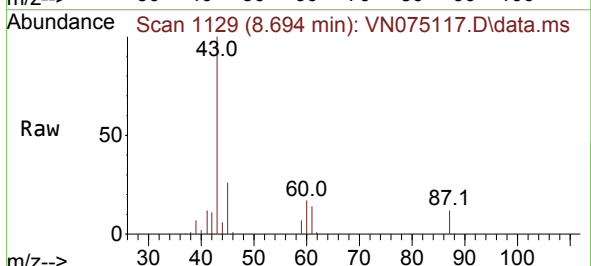
Acq: 02 Nov 2022 15:15

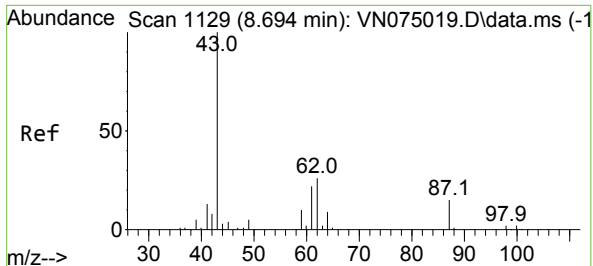
Tgt Ion: 62 Resp: 599

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2

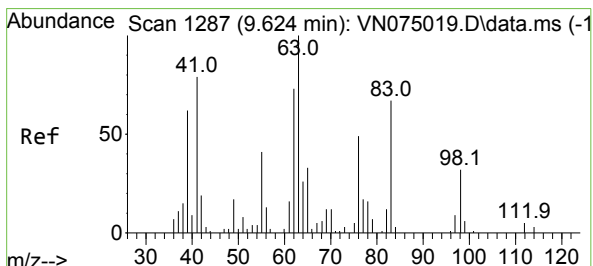
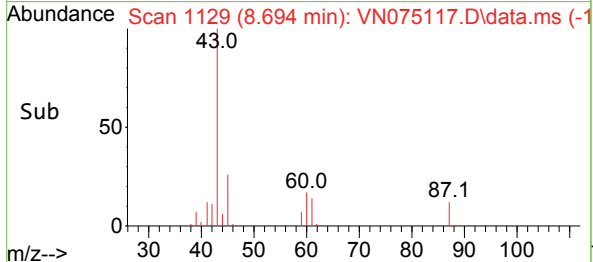
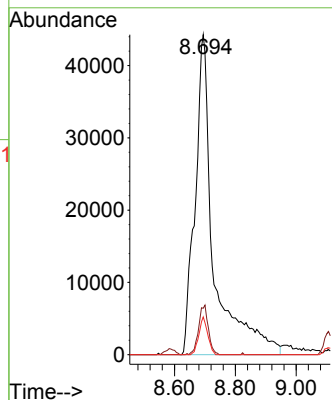
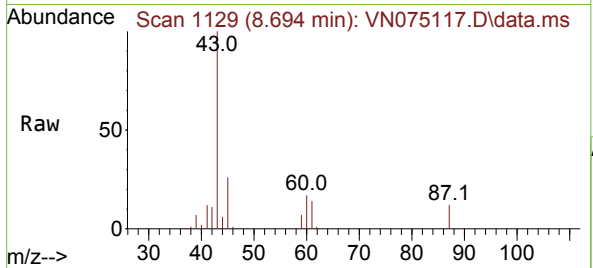




#43  
Isopropyl Acetate  
Concen: 62.458 ug/l  
RT: 8.694 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

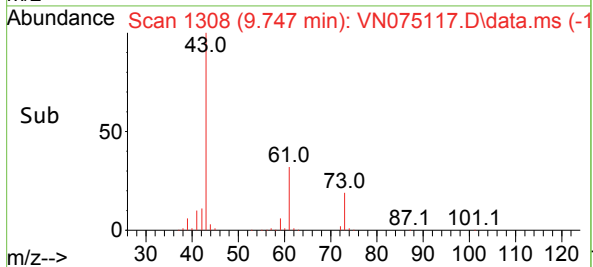
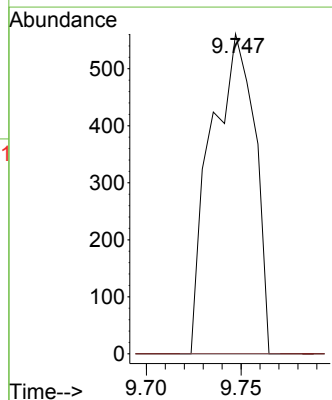
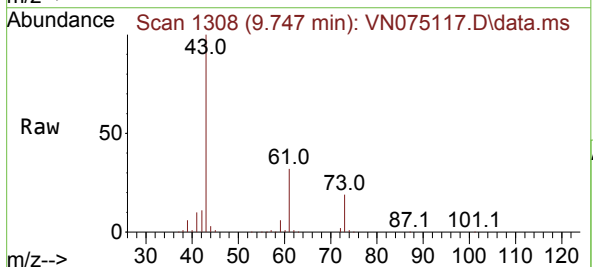
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

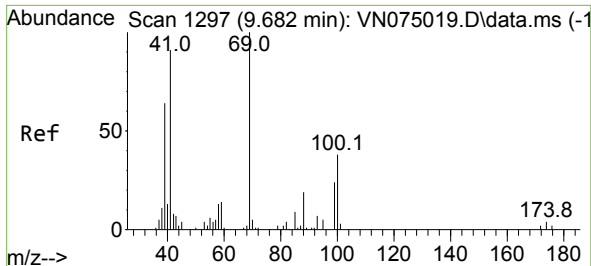
Tgt Ion: 43 Resp: 189717  
Ion Ratio Lower Upper  
43 100  
61 8.1 22.4 33.6#  
87 5.5 12.5 18.7#



#45  
1,2-Dichloropropane  
Concen: 0.694 ug/l  
RT: 9.747 min Scan# 1308  
Delta R.T. 0.123 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 63 Resp: 903  
Ion Ratio Lower Upper  
63 100  
65 0.0 26.1 39.1#

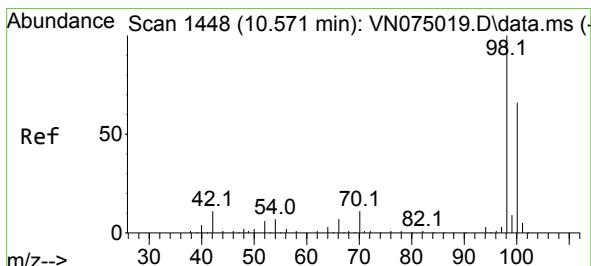
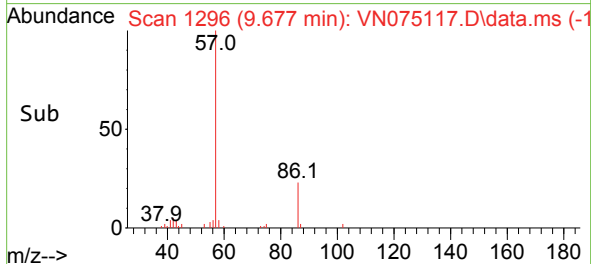
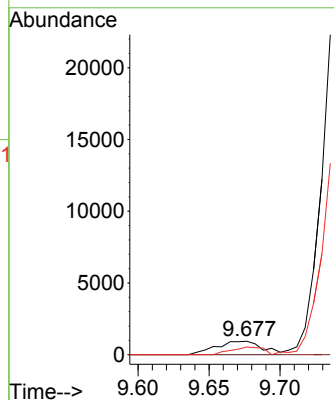
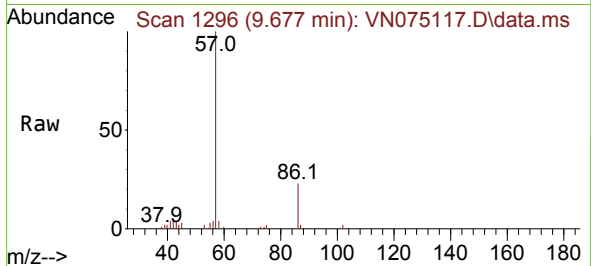




#48  
Methyl methacrylate  
Concen: 1.532 ug/l  
RT: 9.677 min Scan# 1296  
Delta R.T. -0.005 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

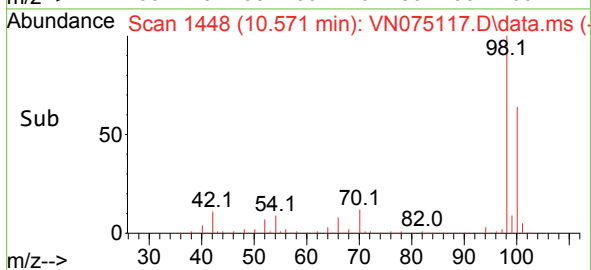
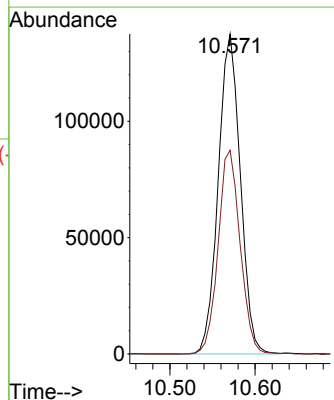
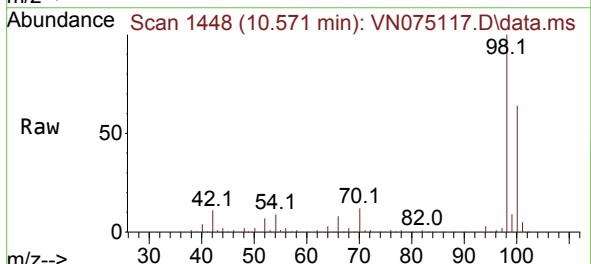
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

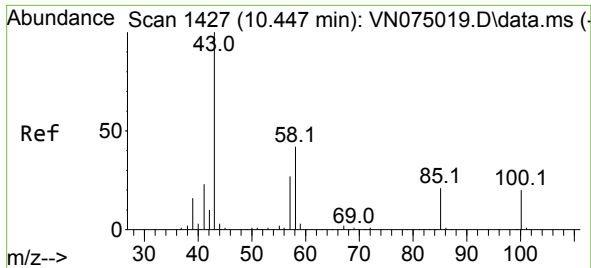
Tgt Ion: 41 Resp: 2135  
Ion Ratio Lower Upper  
41 100  
69 0.0 80.2 120.2#  
39 0.0 56.2 84.2#



#50  
Toluene-d8  
Concen: 55.384 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 98 Resp: 247833  
Ion Ratio Lower Upper  
98 100  
100 63.4 53.0 79.6

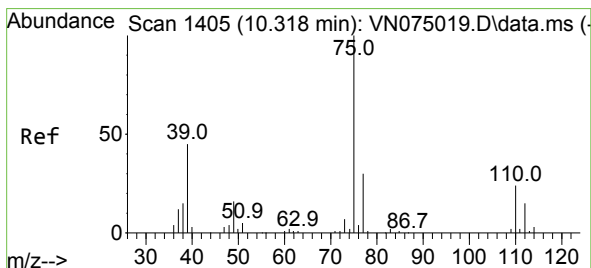
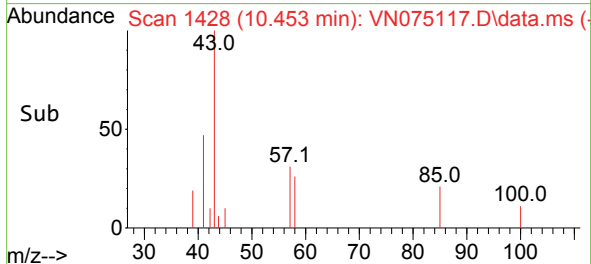
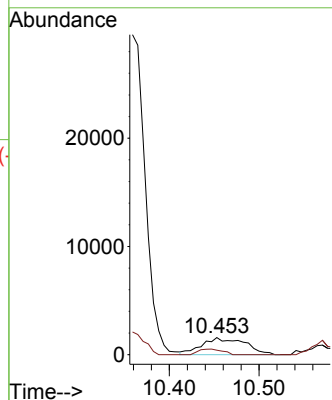
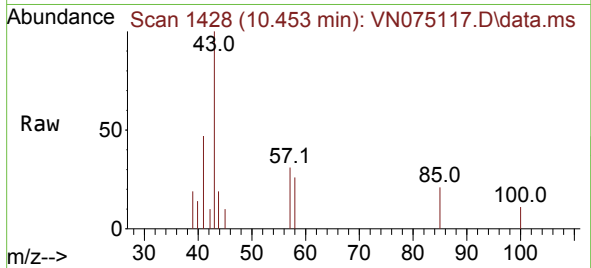




#51  
4-Methyl-2-Pentanone  
Concen: 2.676 ug/l  
RT: 10.453 min Scan# 1412  
Delta R.T. 0.006 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

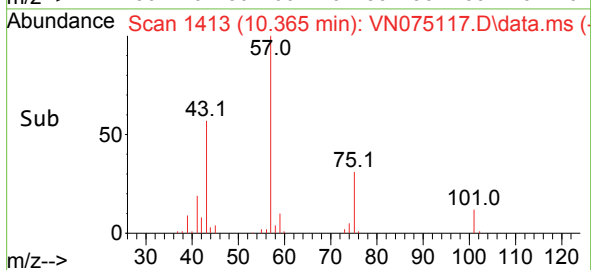
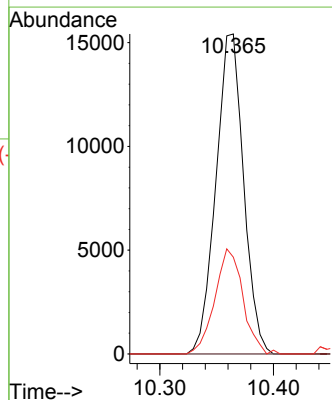
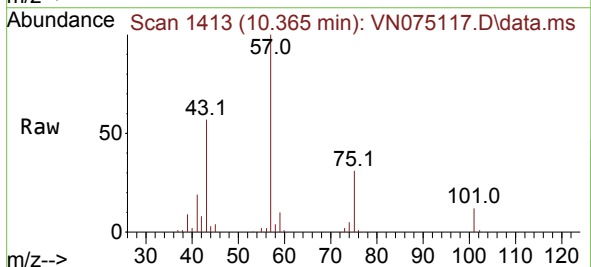
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

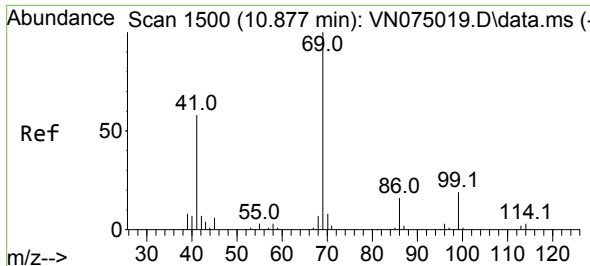
Tgt Ion: 43 Resp: 5246  
Ion Ratio Lower Upper  
43 100  
58 18.2 33.6 50.4#



#54  
cis-1,3-Dichloropropene  
Concen: 11.878 ug/l  
RT: 10.365 min Scan# 1413  
Delta R.T. 0.047 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 75 Resp: 26104  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.7 35.5#  
39 30.3 35.8 53.6#

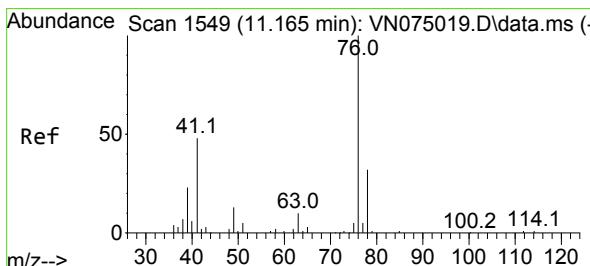
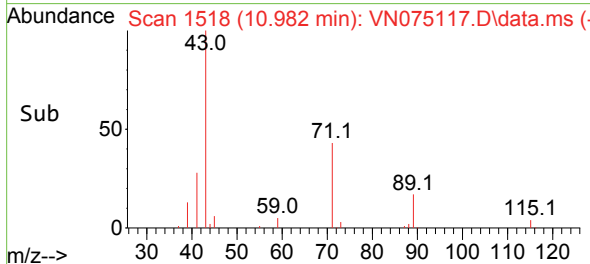
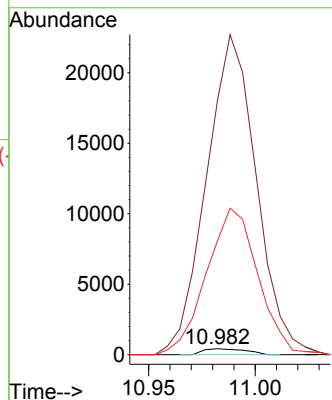
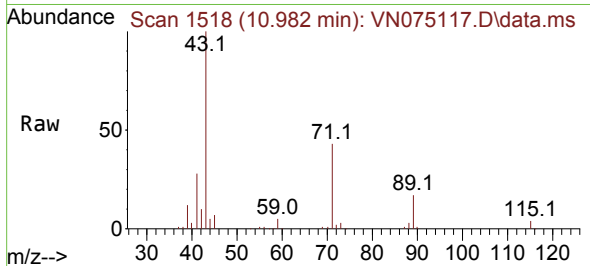




#56  
Ethyl methacrylate  
Concen: 0.266 ug/l  
RT: 10.982 min Scan# 1518  
Delta R.T. 0.105 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

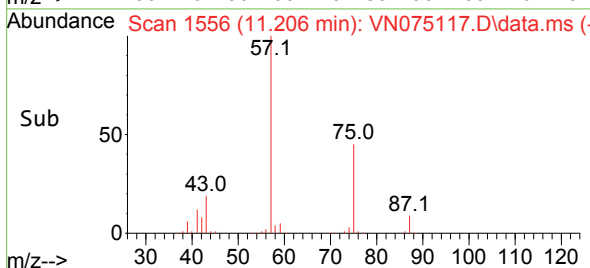
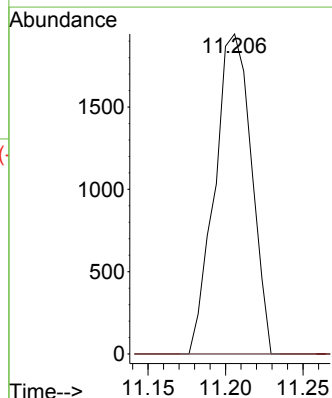
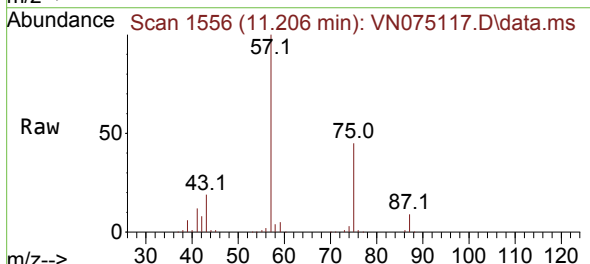
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

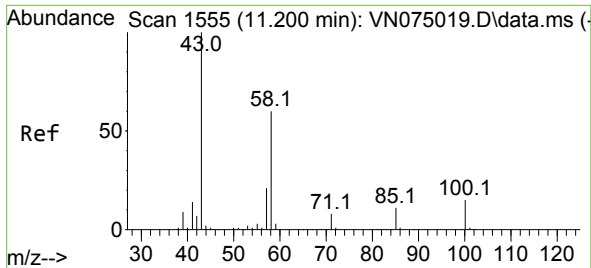
Tgt Ion: 69 Resp: 587  
Ion Ratio Lower Upper  
69 100  
41 6331.7 45.6 68.4#  
39 2984.5 28.5 42.7#



#57  
1,3-Dichloropropane  
Concen: 1.323 ug/l  
RT: 11.206 min Scan# 1556  
Delta R.T. 0.041 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 76 Resp: 3193  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

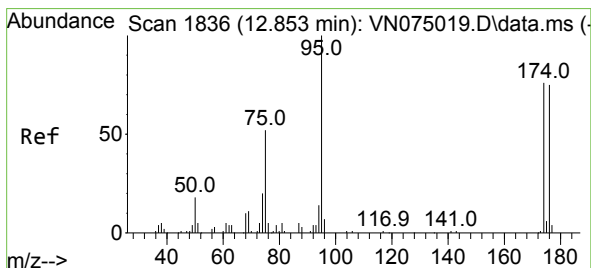
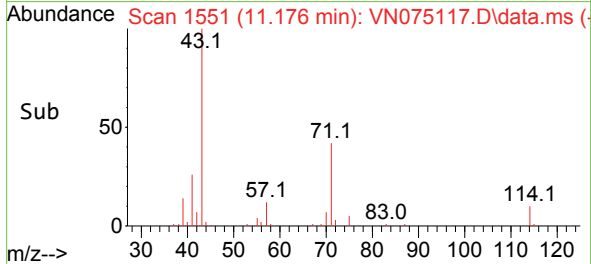
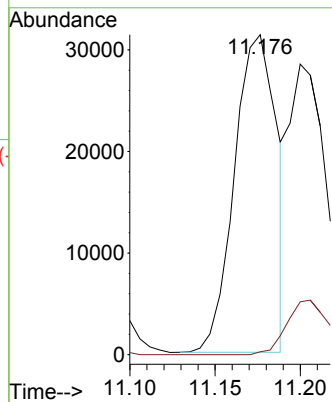
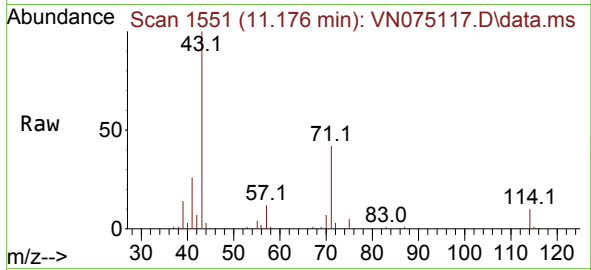




#59  
2-Hexanone  
Concen: 36.255 ug/l  
RT: 11.176 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

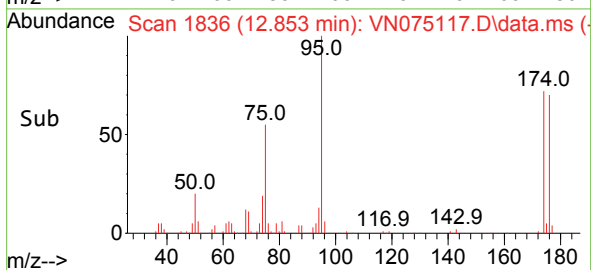
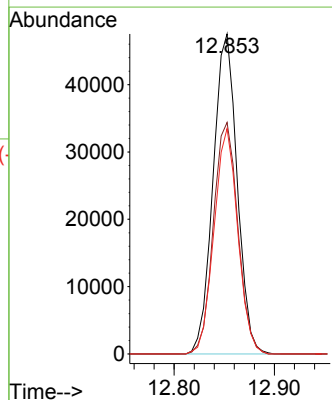
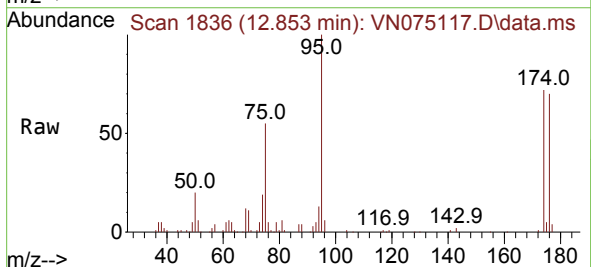
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MSVOA\_N  
ClientSampleId :  
TP-A

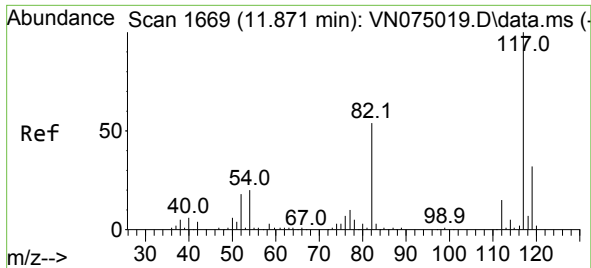
Tgt Ion: 43 Resp: 53935  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 50.248 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 95 Resp: 78985  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 147.4  
176 69.6 0.0 142.2

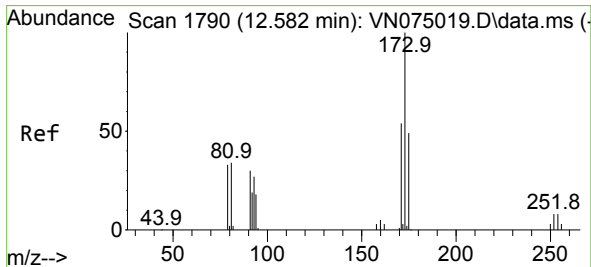
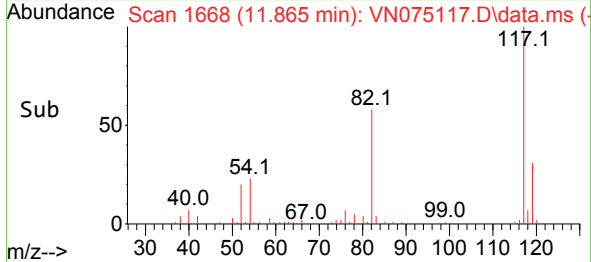
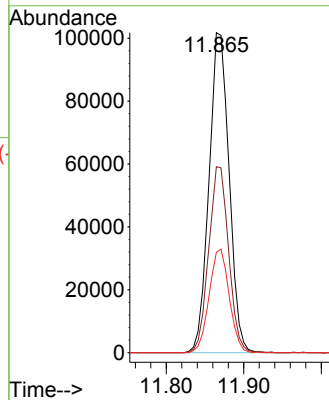
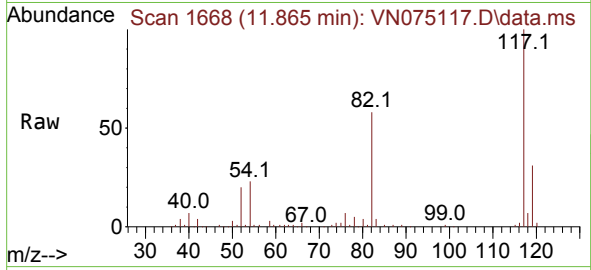




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

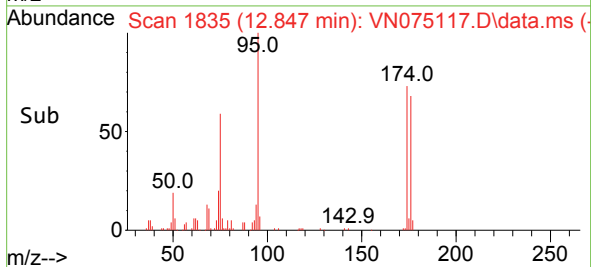
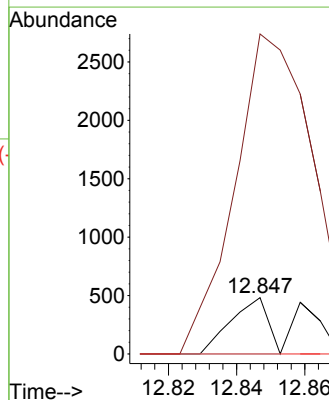
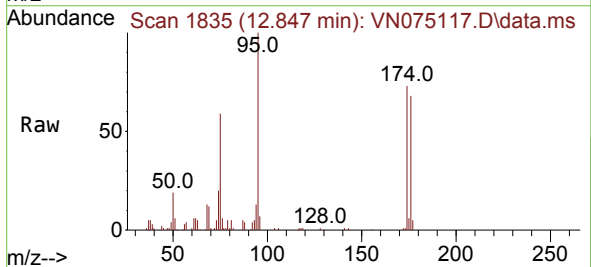
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

Tgt Ion:117 Resp: 183290  
Ion Ratio Lower Upper  
117 100  
82 58.1 43.1 64.7  
119 31.3 25.5 38.3

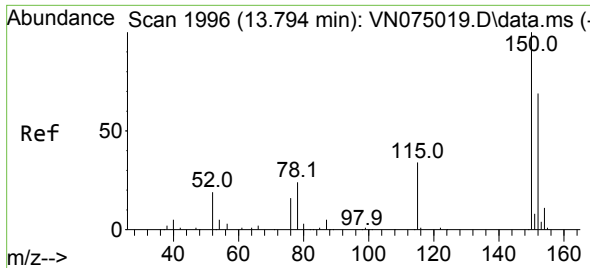


#71  
Bromoform  
Concen: 0.336 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.265 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion:173 Resp: 365  
Ion Ratio Lower Upper  
173 100  
175 1006.0 24.6 74.0#  
254 0.0 0.0 0.0



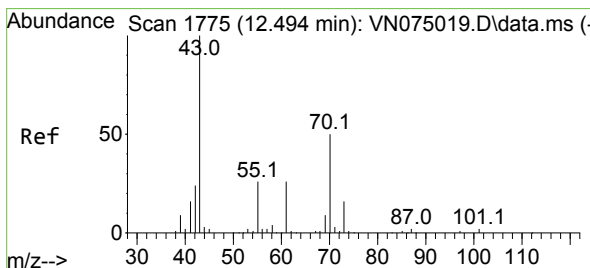
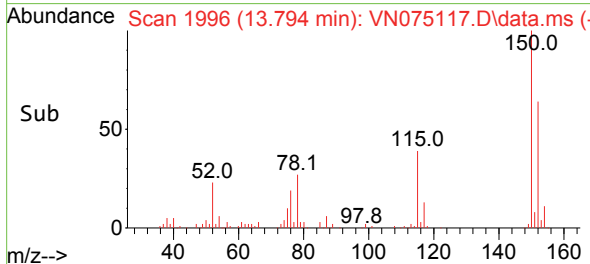
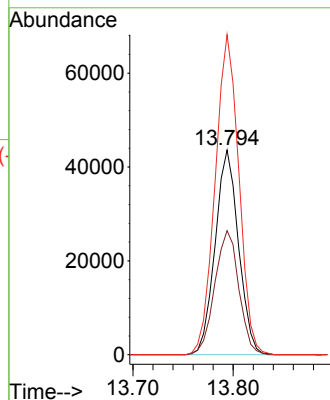
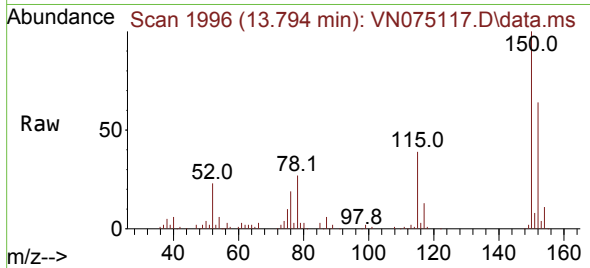




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

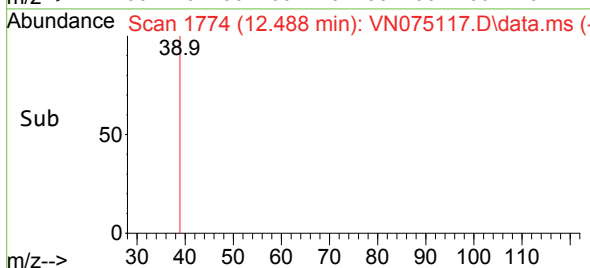
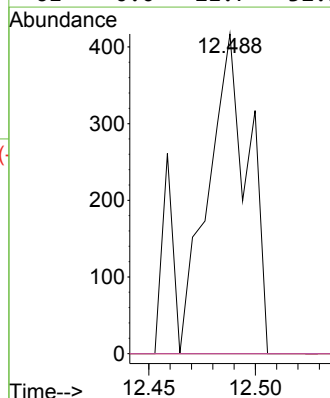
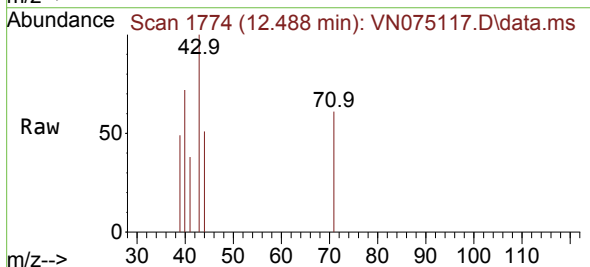
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-A

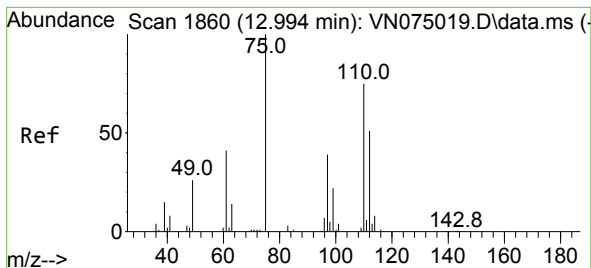
Tgt Ion:152 Resp: 70537  
Ion Ratio Lower Upper  
152 100  
115 62.3 30.2 90.6  
150 158.5 0.0 348.4



#74  
N-ethyl acetate  
Concen: 0.263 ug/l  
RT: 12.488 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN075117.D  
Acq: 02 Nov 2022 15:15

Tgt Ion: 43 Resp: 550  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.8 59.8#  
55 0.0 19.9 29.9#  
61 0.0 21.7 32.5#





#76

1,2,3-Trichloropropane

Concen: 29.488 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. -0.147 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

Instrument :

MSVOA\_N

ClientSampleId :

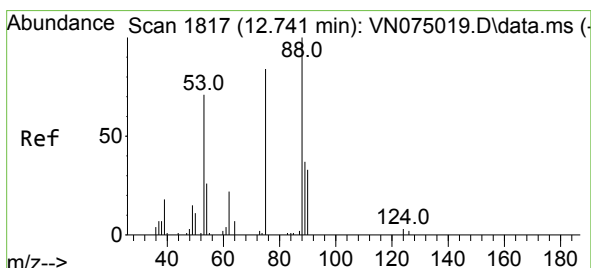
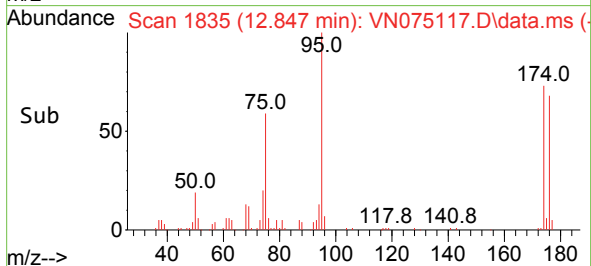
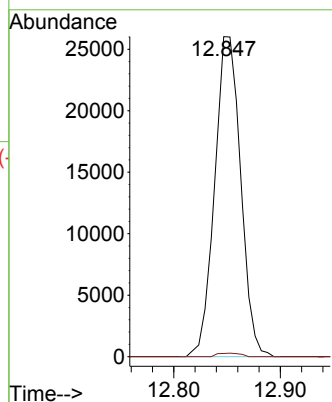
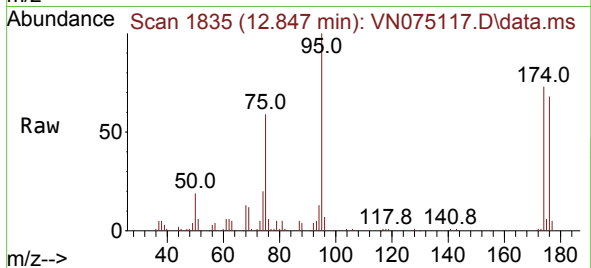
TP-A

Tgt Ion: 75 Resp: 44164

Ion Ratio Lower Upper

75 100

77 1.0 75.6 226.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.696 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.106 min

Lab File: VN075117.D

Acq: 02 Nov 2022 15:15

Tgt Ion: 75 Resp: 44164

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.7 56.5#

