

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090420\  
 Data File : VN063268.D  
 Acq On : 5 Sep 2020 4:48  
 Operator : JC/MD  
 Sample : L3877-18  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-4

Quant Time: Sep 05 07:34:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N083120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 01 04:21:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 273008   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 539124   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 544242   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 228190   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 216187   | 48.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.88%  |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 164356   | 47.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.04%  |      |
| 50) Toluene-d8            | 10.06  | 98  | 687815   | 51.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.34% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 247420   | 53.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.26% |      |

## Target Compounds

|                             |       |     |        |           |        | Qvalue |
|-----------------------------|-------|-----|--------|-----------|--------|--------|
| 3) Chloromethane            | 2.03  | 50  | 1306   | 0.334     | ug/l # | 83     |
| 5) Bromomethane             | 2.55  | 94  | 1469   | 0.404     | ug/l   | 95     |
| 7) Trichlorofluoromethane   | 2.95  | 101 | 30     | Below Cal | #      | 46     |
| 11) Tert butyl alcohol      | 4.72  | 59  | 257    | 0.469     | ug/l # | 72     |
| 13) Acrolein                | 3.55  | 56  | 29     | 15.900    | ug/l # | 1      |
| 15) Acrylonitrile           | 4.92  | 53  | 70     | 2.449     | ug/l # | 2      |
| 16) Acetone                 | 3.78  | 43  | 41476  | 32.693    | ug/l   | 97     |
| 18) Methyl Acetate          | 4.27  | 43  | 1079   | 0.332     | ug/l # | 1      |
| 20) Methylene Chloride      | 4.51  | 84  | 18409  | 4.715     | ug/l   | 88     |
| 25) 2-Butanone              | 6.80  | 43  | 6816   | 3.470     | ug/l   | 98     |
| 29) Tetrahydrofuran         | 7.17  | 42  | 1585   | 1.167     | ug/l # | 39     |
| 31) Cyclohexane             | 7.62  | 56  | 9009   | Below Cal | #      | 38     |
| 36) 1,1-Dichloropropene     | 7.62  | 75  | 25739  | 4.966     | ug/l # | 51     |
| 37) Ethyl Acetate           | 6.89  | 43  | 495    | 0.481     | ug/l # | 72     |
| 38) Carbon Tetrachloride    | 7.62  | 117 | 29782  | 5.666     | ug/l # | 17     |
| 39) Methylcyclohexane       | 9.04  | 83  | 2238   | 0.384     | ug/l # | 80     |
| 40) Benzene                 | 8.01  | 78  | 59911  | 3.934     | ug/l   | 94     |
| 43) Isopropyl Acetate       | 8.13  | 43  | 72987  | 8.635     | ug/l # | 90     |
| 48) Methyl methacrylate     | 9.15  | 41  | 3880   | 1.018     | ug/l # | 13     |
| 49) 1,4-Dioxane             | 9.18  | 88  | 68     | 1.154     | ug/l # | 25     |
| 51) 4-Methyl-2-Pentanone    | 9.95  | 43  | 10192  | 2.219     | ug/l   | 95     |
| 52) Toluene                 | 10.13 | 92  | 11100  | 1.170     | ug/l   | 98     |
| 54) cis-1,3-Dichloropropene | 9.87  | 75  | 31202  | 4.744     | ug/l # | 63     |
| 57) 1,3-Dichloropropane     | 10.73 | 76  | 5101   | 0.788     | ug/l # | 43     |
| 59) 2-Hexanone              | 10.74 | 43  | 74605  | 23.112    | ug/l # | 52     |
| 67) Ethyl Benzene           | 11.49 | 91  | 74966  | 3.749     | ug/l   | 98     |
| 68) m/p-Xylenes             | 11.60 | 106 | 3354   | 0.453     | ug/l   | 85     |
| 69) o-Xylene                | 11.92 | 106 | 1935   | 0.270     | ug/l   | 97     |
| 70) Styrene                 | 11.94 | 104 | 4332   | 0.352     | ug/l   | 95     |
| 71) Bromoform               | 12.38 | 173 | 1402   | 0.508     | ug/l # | 1      |
| 73) Isopropylbenzene        | 12.23 | 105 | 130653 | 7.465     | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane  | 12.38 | 75  | 140708 | 31.384    | ug/l # | 100    |
| 78) n-propylbenzene         | 12.57 | 91  | 67882  | 3.352     | ug/l   | 96     |
| 79) 2-Chlorotoluene         | 12.66 | 91  | 4182   | 0.345     | ug/l # | 48     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Sep 01 04:21:28 2020  
 Response via : Initial Calibration

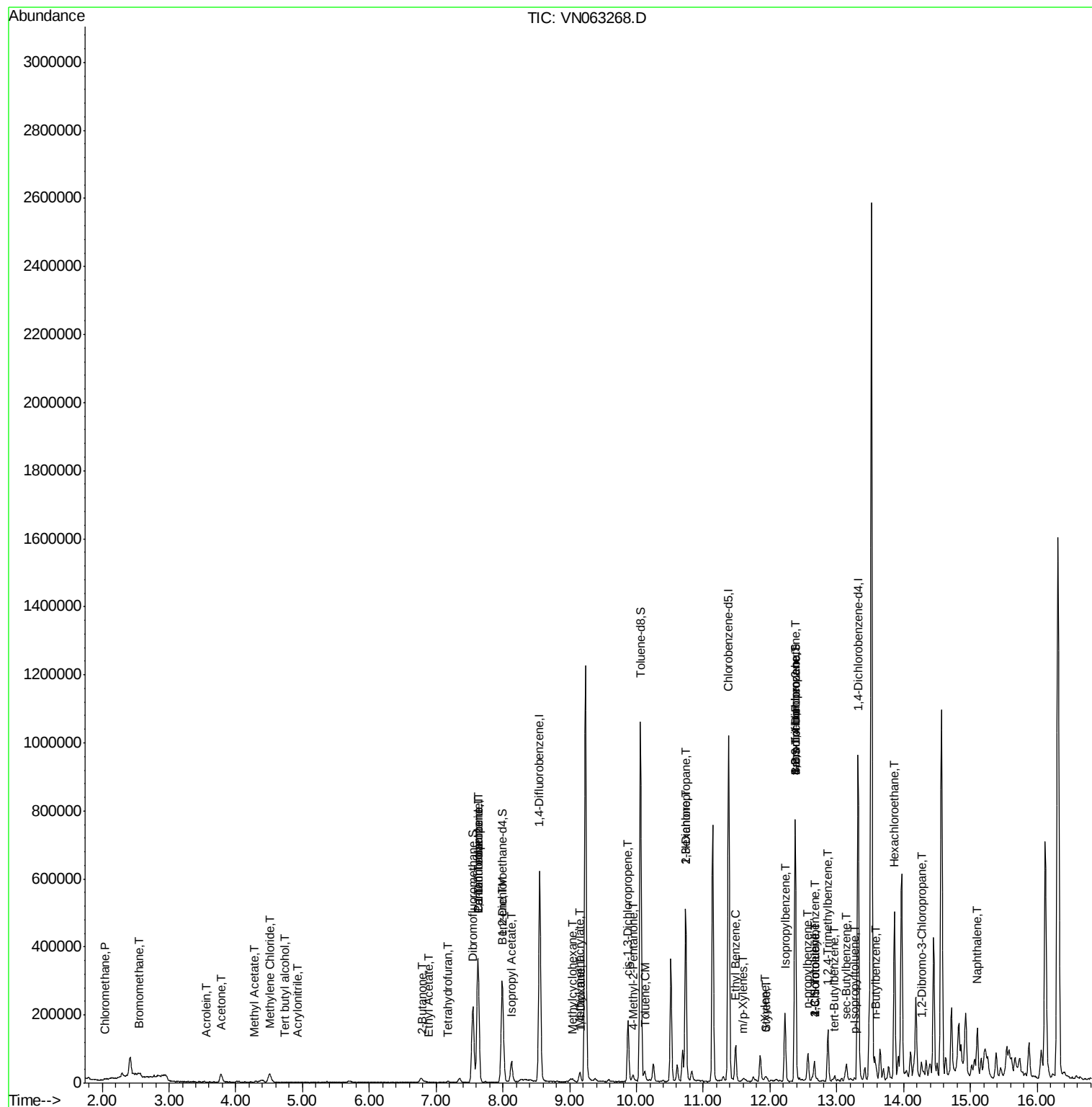
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 80) 1,3,5-Trimethylbenzene     | 12.67 | 105  | 37051    | 2.543  | ug/l   | 66       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 140708   | 75.854 | ug/l # | 10       |
| 82) 4-Chlorotoluene            | 12.66 | 91   | 4182     | 0.332  | ug/l # | 48       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 7009     | 0.561  | ug/l   | 89       |
| 84) 1,2,4-Trimethylbenzene     | 12.87 | 105  | 95026    | 6.471  | ug/l   | 76       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 29339    | 1.802  | ug/l   | 79       |
| 86) p-Isopropyltoluene         | 13.27 | 119  | 3225     | 0.223  | ug/l # | 51       |
| 89) n-Butylbenzene             | 13.59 | 91   | 22502    | 1.685  | ug/l # | 71       |
| 90) Hexachloroethane           | 13.86 | 117  | 27303    | 10.203 | ug/l # | 20       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 370      | 0.334  | ug/l # | 7        |
| 95) Naphthalene                | 15.10 | 128  | 118361   | 8.999  | ug/l   | 97       |

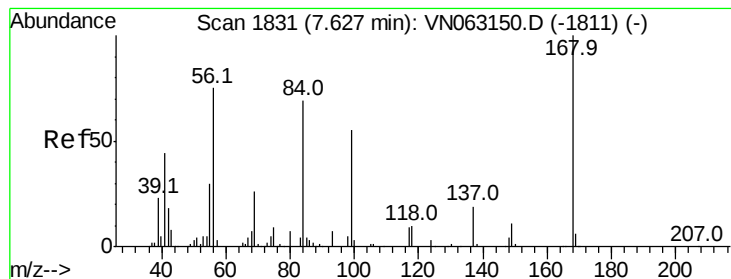
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN090420\  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

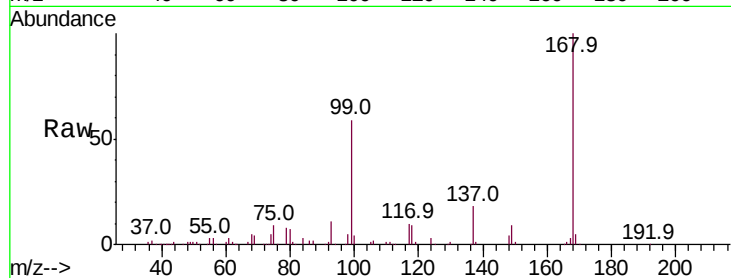
TP-4

Tot Ion:168 Resp: 273008

Ion Ratio Lower Upper

168 100

99 59.3 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

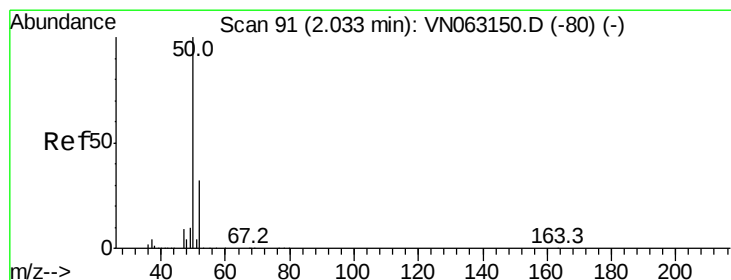
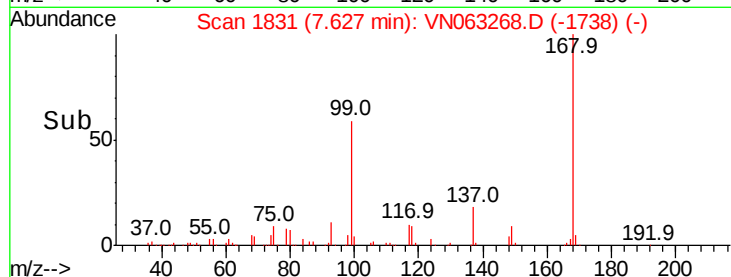
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.334 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063268.D

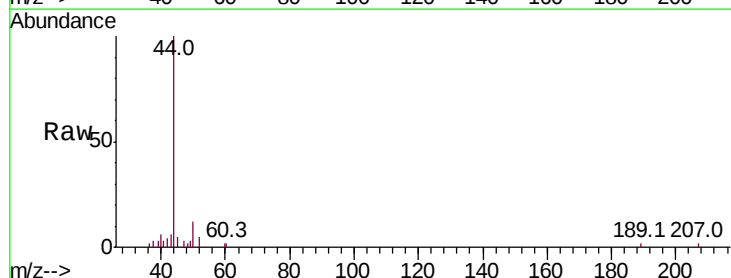
Acq: 5 Sep 2020 4:48

Tgt Ion: 50 Resp: 1306

Ion Ratio Lower Upper

50 100

52 41.8 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

800

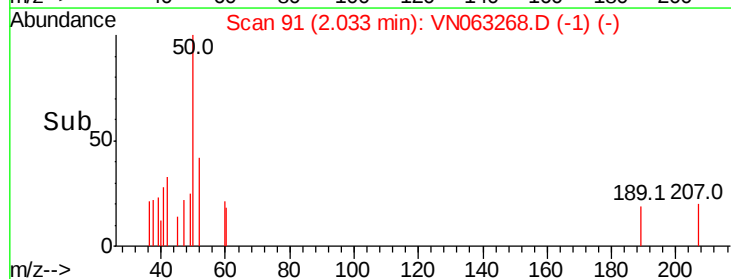
600

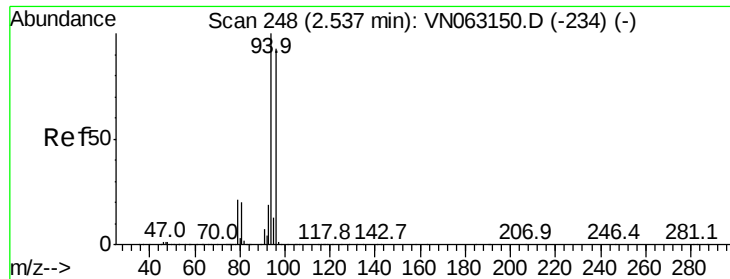
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.404 ug/l

RT: 2.55 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

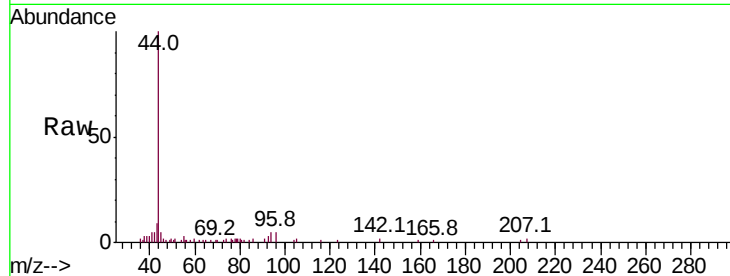
TP-4

Tot Ion: 94 Resp: 1469

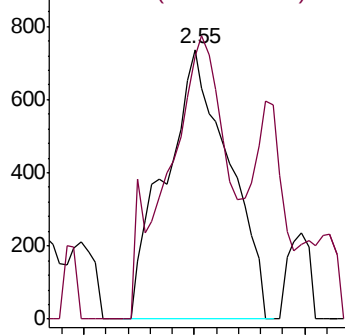
Ion Ratio Lower Upper

94 100

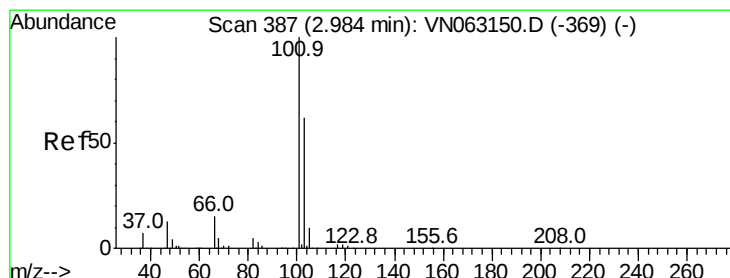
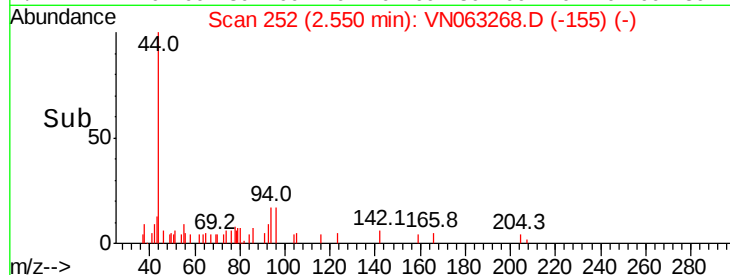
96 97.7 74.4 111.6



Abundance Ion 93.90 (93.60 to 94.60): VN063150.D (-234) (-)



Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.95 min Scan# 376

Delta R.T. -0.04 min

Lab File: VN063268.D

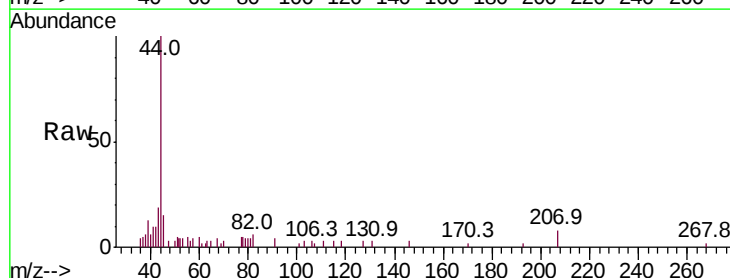
Acq: 5 Sep 2020 4:48

Tgt Ion: 101 Resp: 30

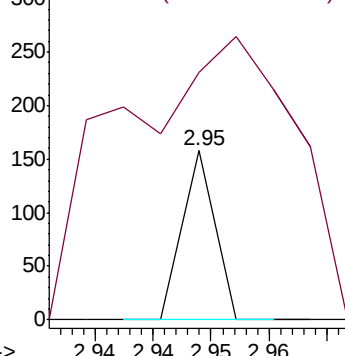
Ion Ratio Lower Upper

101 100

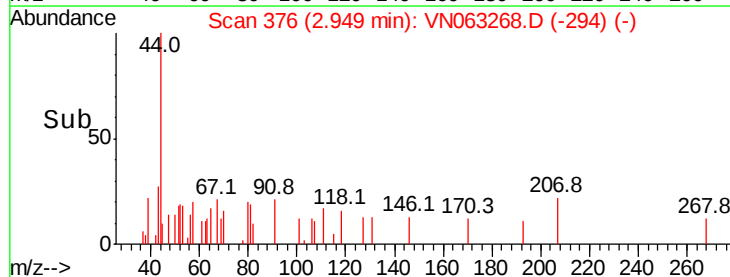
103 20.3 49.7 74.5#

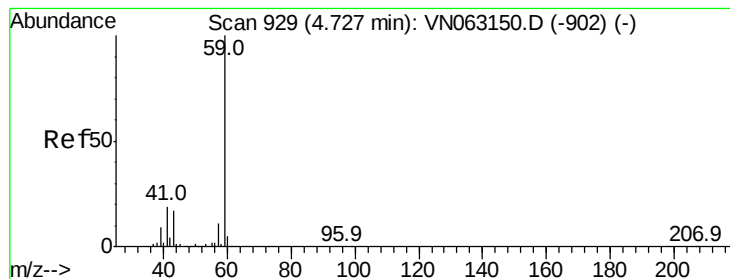


Abundance Ion 100.90 (100.60 to 101.60): VN063150.D (-369) (-)



Time-->





#11

Tert butyl alcohol

Concen: 0.469 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

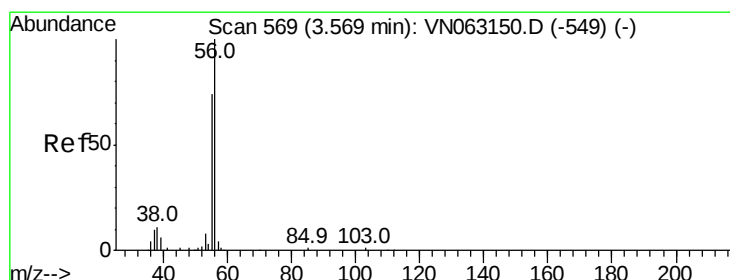
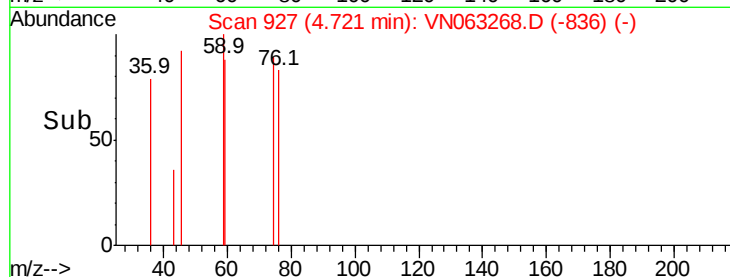
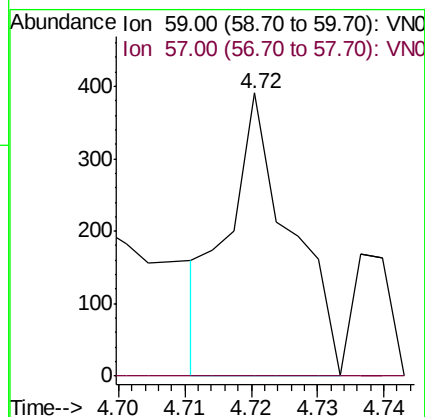
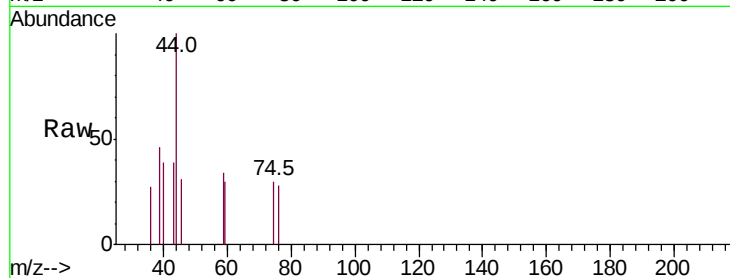
TP-4

Tot Ion: 59 Resp: 257

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#13

Acrolein

Concen: 15.900 ug/l

RT: 3.55 min Scan# 563

Delta R.T. -0.02 min

Lab File: VN063268.D

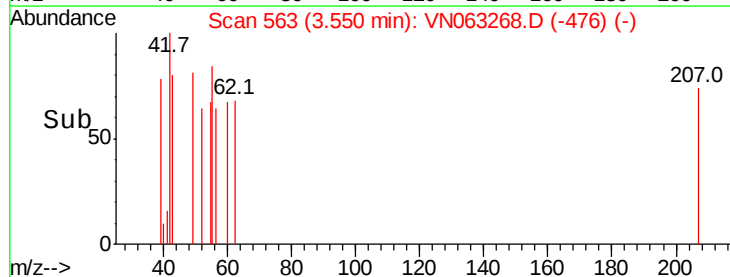
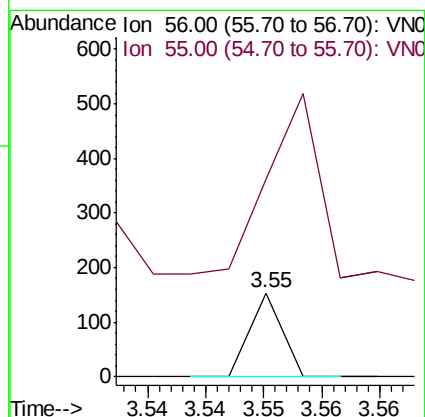
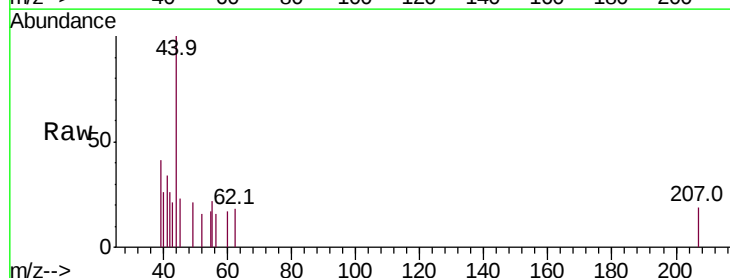
Acq: 5 Sep 2020 4:48

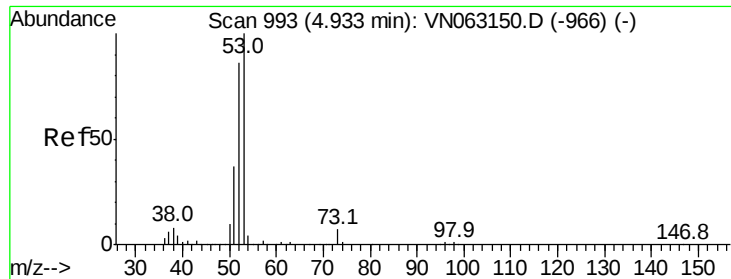
Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 1082.8 55.4 83.0#





#15

Acrylonitrile

Concen: 2.449 ug/l

RT: 4.92 min Scan# 989

Delta R.T. -0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampleId :

TP-4

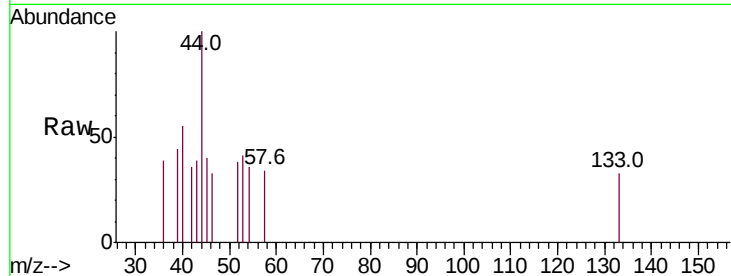
Tot Ion: 53 Resp: 70

Ion Ratio Lower Upper

53 100

52 187.1 67.2 100.8#

51 0.0 30.2 45.4#



Abundance Ion 53.00 (52.70 to 53.70): VN063150.D (-966) (-)

Ion 52.00 (51.70 to 52.70): VN063150.D (-966) (-)

Ion 51.00 (50.70 to 51.70): VN063150.D (-966) (-)

4.92

250

200

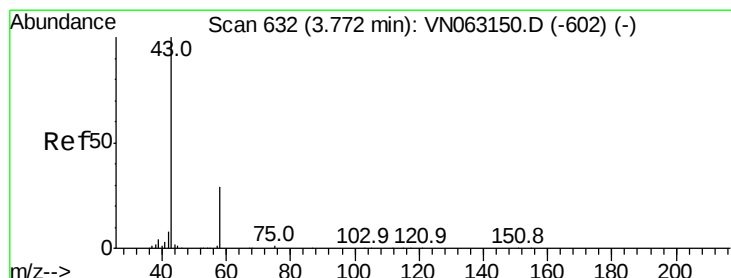
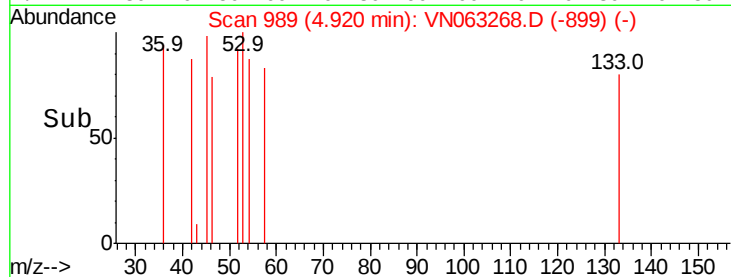
150

100

50

0

Time-->



#16

Acetone

Concen: 32.693 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063268.D

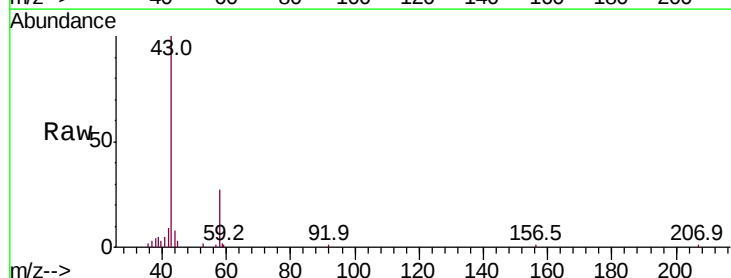
Acq: 5 Sep 2020 4:48

Tgt Ion: 43 Resp: 41476

Ion Ratio Lower Upper

43 100

58 27.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-602) (-)

Ion 58.00 (57.70 to 58.70): VN063150.D (-602) (-)

3.78

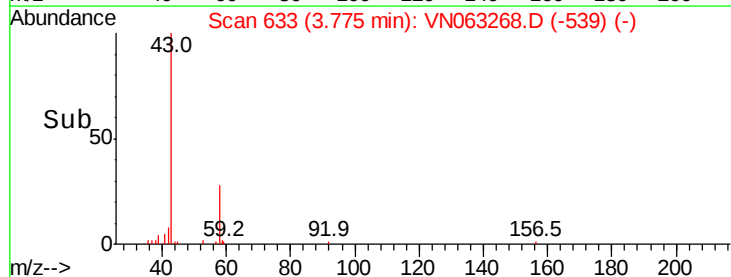
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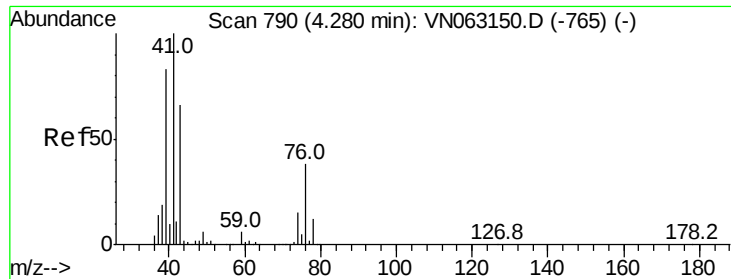
10000

5000

0

Time-->

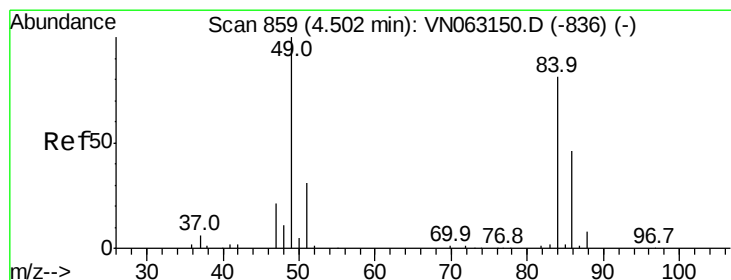
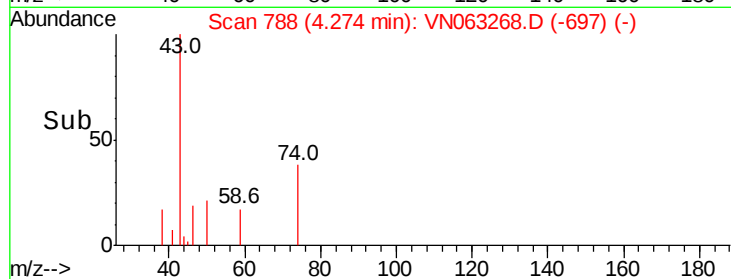
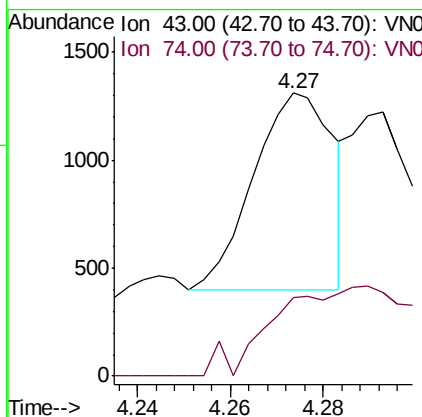
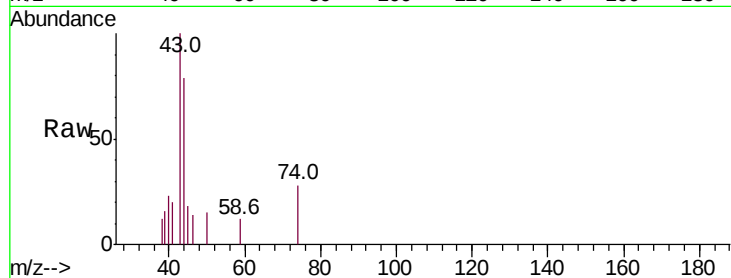




#18  
Methyl Acetate  
Concen: 0.332 ug/l  
RT: 4.27 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

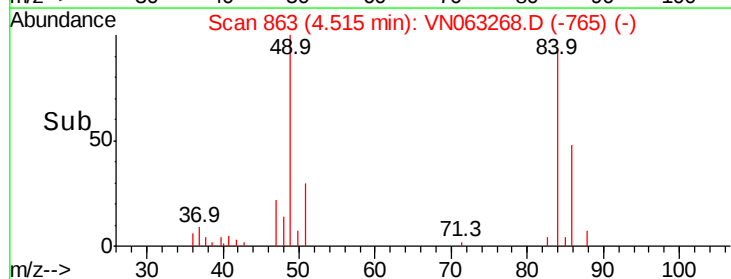
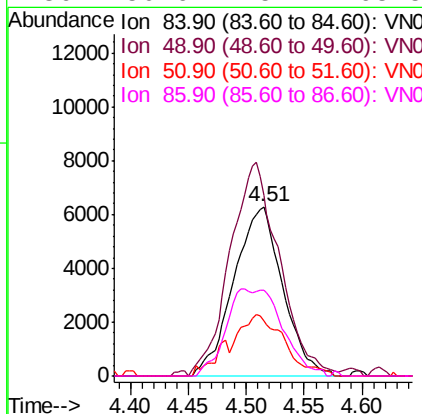
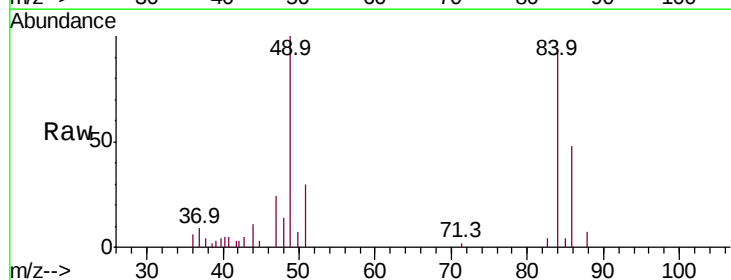
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

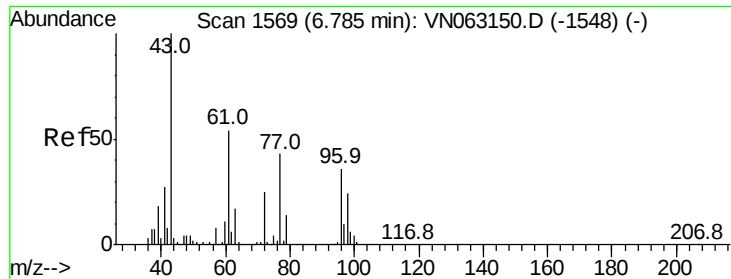
Tot Ion: 43 Resp: 1079  
Ion Ratio Lower Upper  
43 100  
74 79.4 19.0 28.6#



#20  
Methylene Chloride  
Concen: 4.715 ug/l  
RT: 4.51 min Scan# 863  
Delta R.T. 0.01 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion: 84 Resp: 18409  
Ion Ratio Lower Upper  
84 100  
49 106.5 98.4 147.6  
51 32.3 30.4 45.6  
86 50.6 45.7 68.5

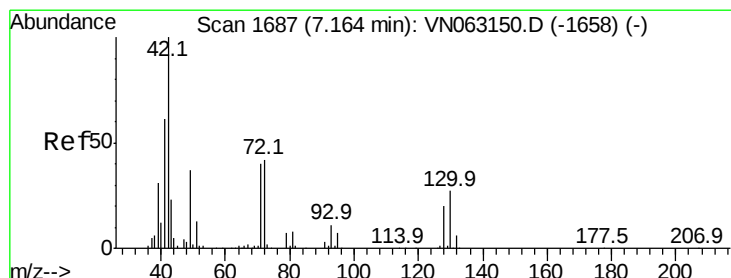
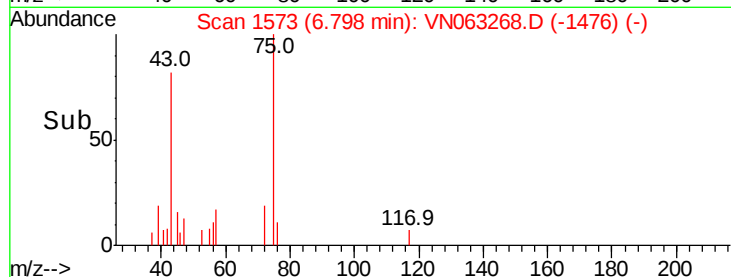
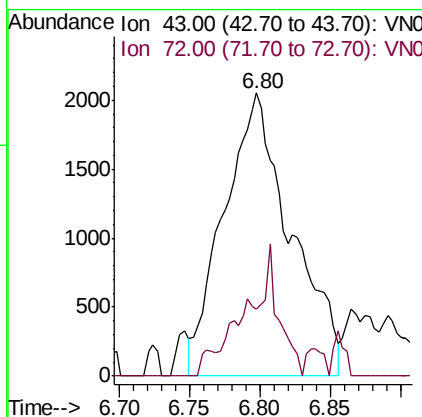
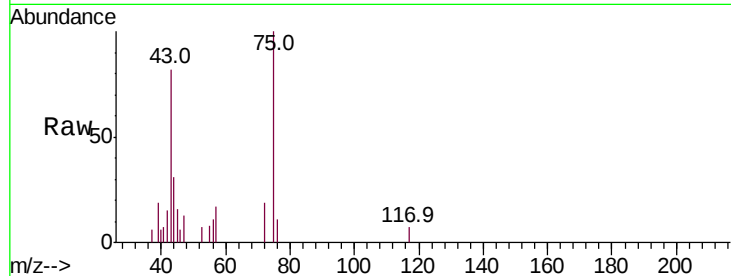




#25  
2-Butanone  
Concen: 3.470 ug/l  
RT: 6.80 min Scan# 1573  
Delta R.T. 0.01 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

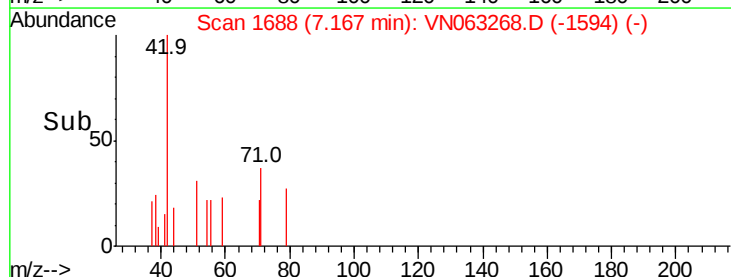
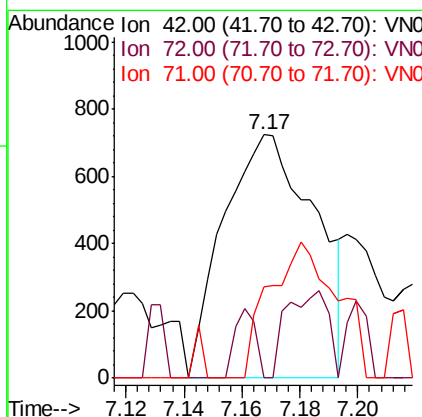
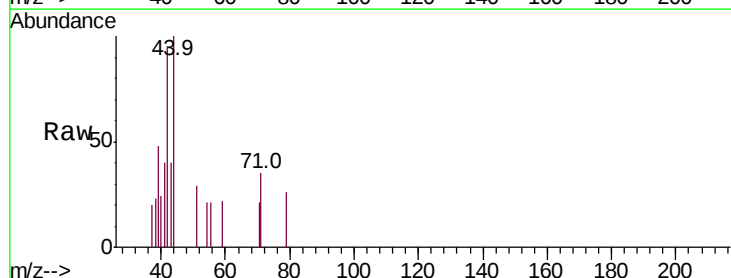
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

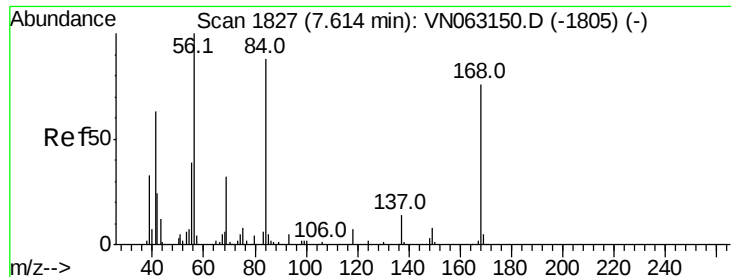
Tot Ion: 43 Resp: 6816  
Ion Ratio Lower Upper  
43 100  
72 26.5 20.2 30.4



#29  
Tetrahydrofuran  
Concen: 1.167 ug/l  
RT: 7.17 min Scan# 1688  
Delta R.T. 0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion: 42 Resp: 1585  
Ion Ratio Lower Upper  
42 100  
72 6.4 33.9 50.9#  
71 0.0 31.9 47.9#

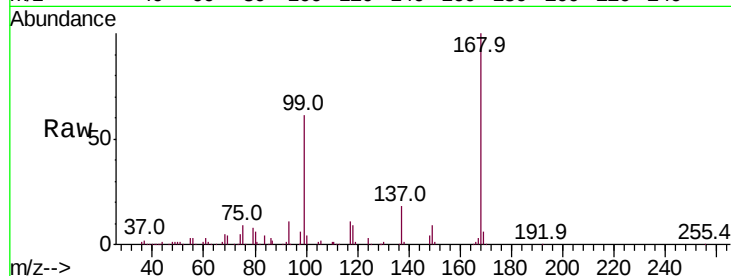




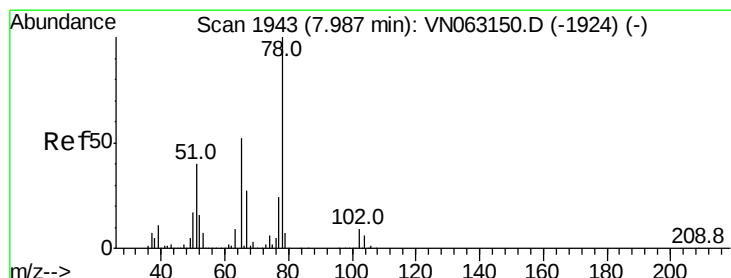
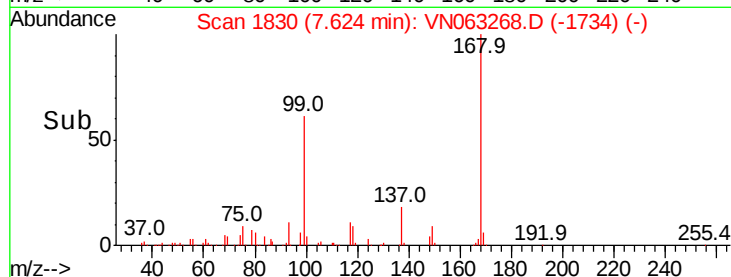
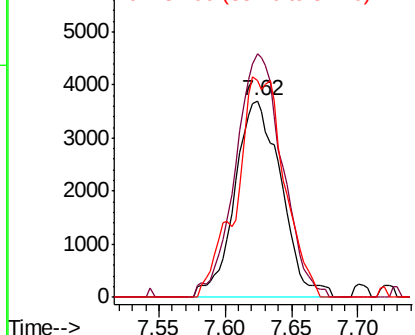
#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.62 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-4

Tot Ion: 56 Resp: 9009  
Ion Ratio Lower Upper  
56 100  
69 123.8 25.4 38.0#  
84 110.4 70.2 105.4#

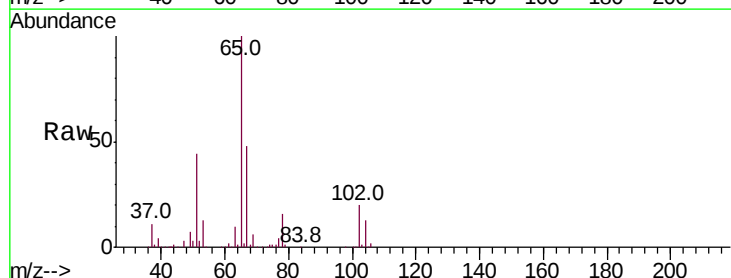


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

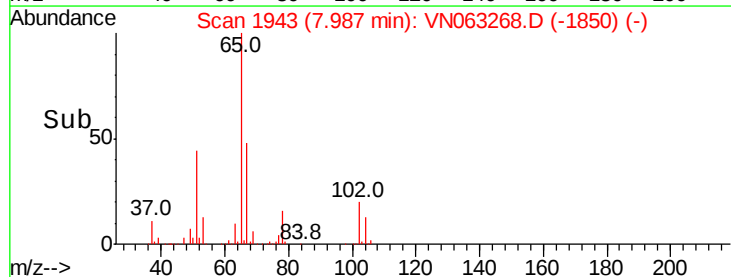
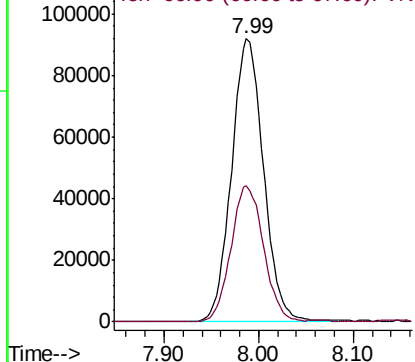


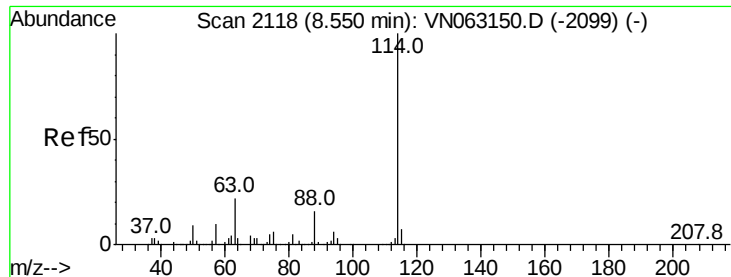
#33  
1,2-Dichloroethane-d4  
Concen: 48.441 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion: 65 Resp: 216187  
Ion Ratio Lower Upper  
65 100  
67 49.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

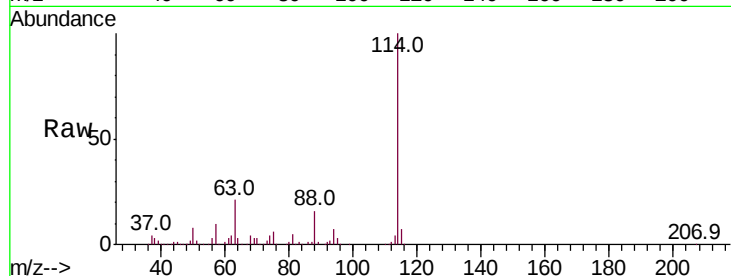




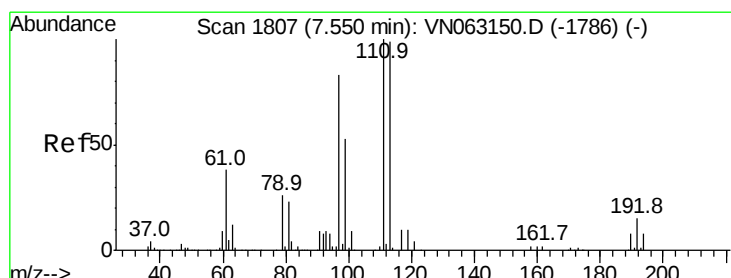
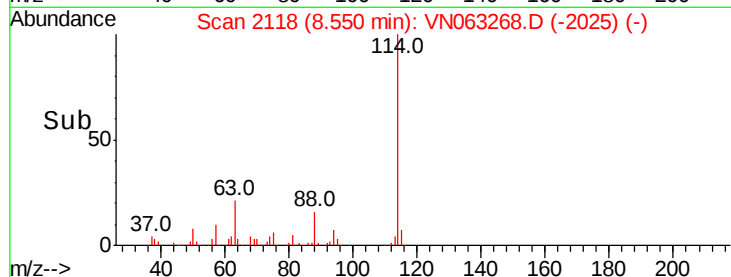
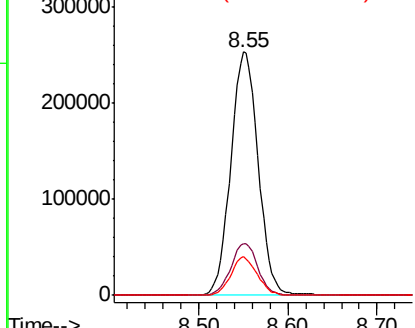
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2118  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.3  | 0.0   | 43.0  |
| 88      | 15.9  | 0.0   | 31.6  |

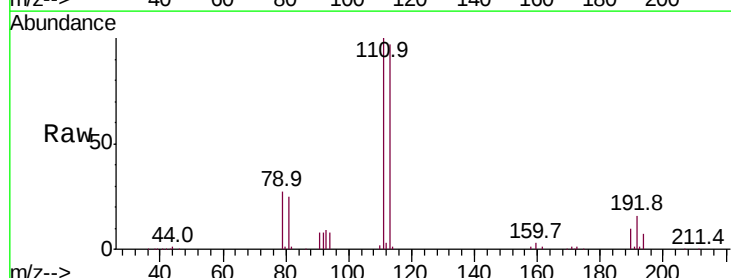


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

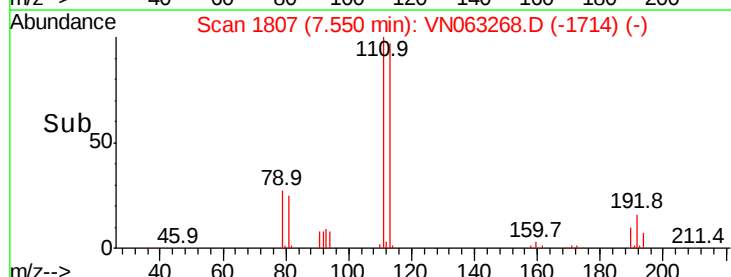
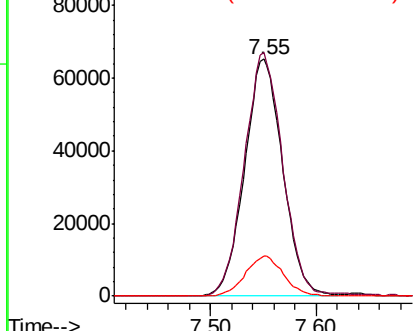


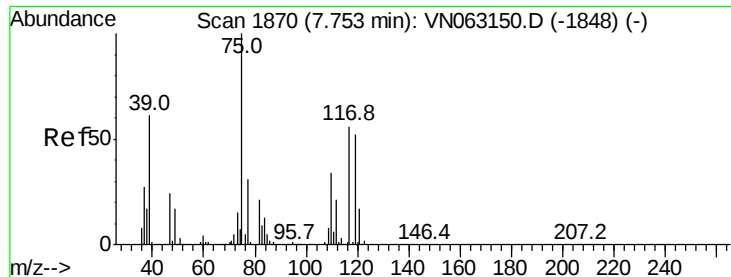
#35  
Dibromofluoromethane  
Concen: 47.519 ug/l  
RT: 7.55 min Scan# 1807  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 80.7  | 121.1 |
| 192     | 16.8  | 12.6  | 19.0  |



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.966 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampleId :

TP-4

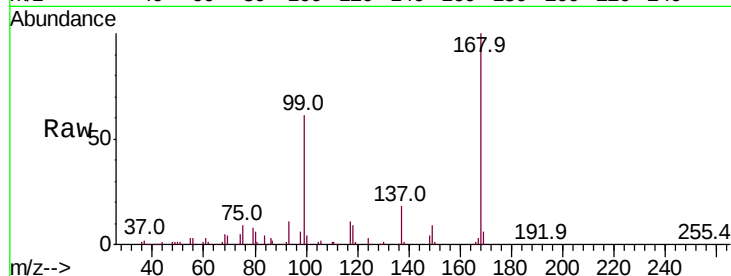
Tot Ion: 75 Resp: 25739

Ion Ratio Lower Upper

75 100

110 9.4 16.6 49.8#

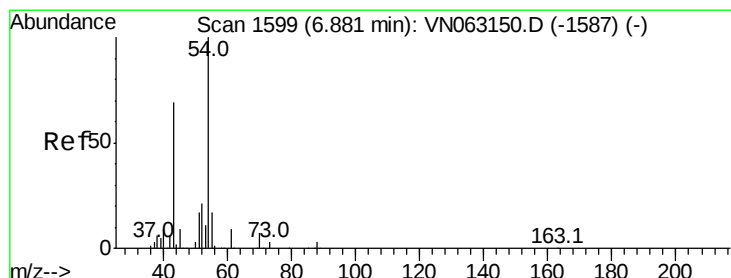
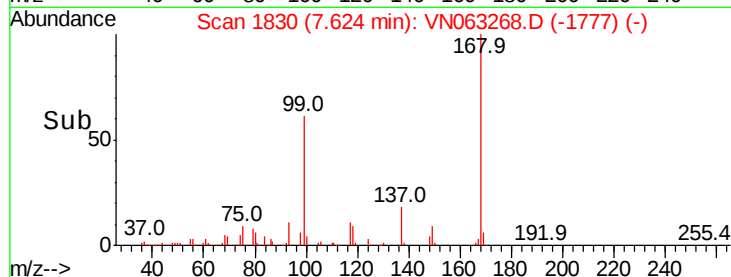
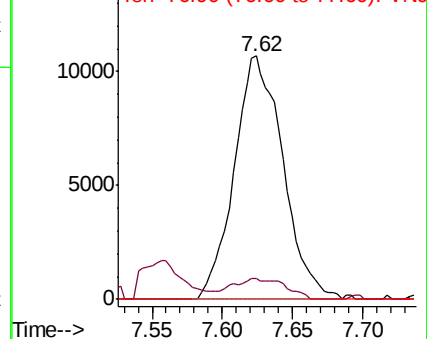
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN063150.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063150.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063150.D (-1848) (-)



#37

Ethyl Acetate

Concen: 0.481 ug/l

RT: 6.89 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

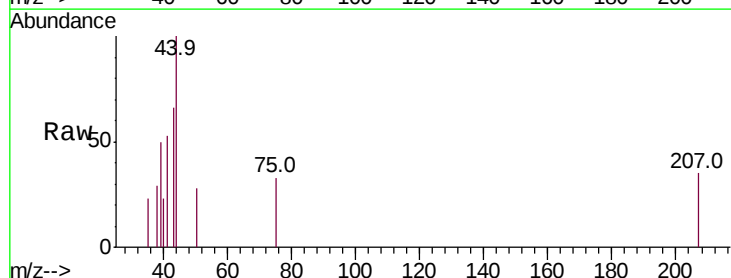
Tgt Ion: 43 Resp: 495

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

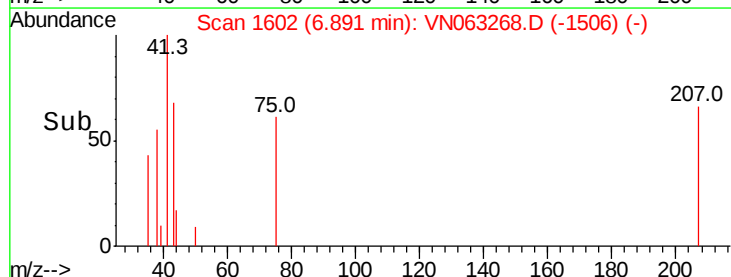
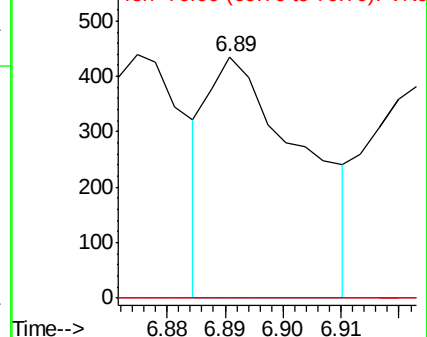
70 0.0 3.0 4.6#

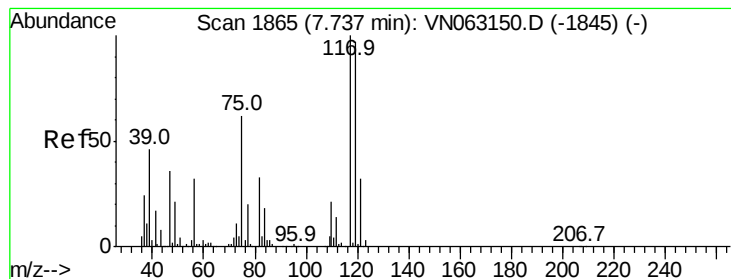


Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-1587) (-)

Ion 60.90 (60.60 to 61.60): VN063150.D (-1587) (-)

Ion 70.00 (69.70 to 70.70): VN063150.D (-1587) (-)





#38

Carbon Tetrachloride

Concen: 5.666 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

TP-4

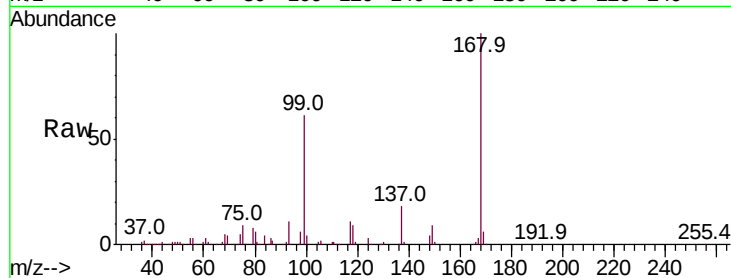
Tot Ion:117 Resp: 29782

Ion Ratio Lower Upper

117 100

119 6.5 77.2 115.8#

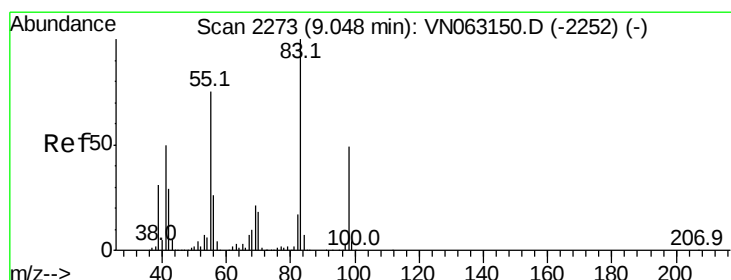
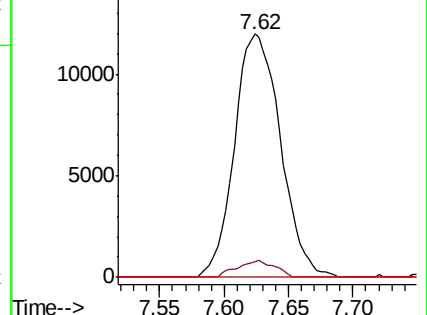
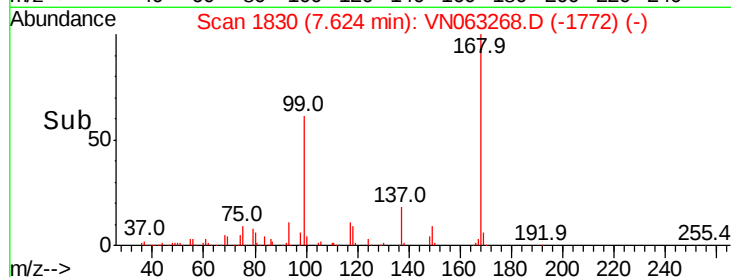
121 0.0 25.6 38.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.384 ug/l

RT: 9.04 min Scan# 2271

Delta R.T. -0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

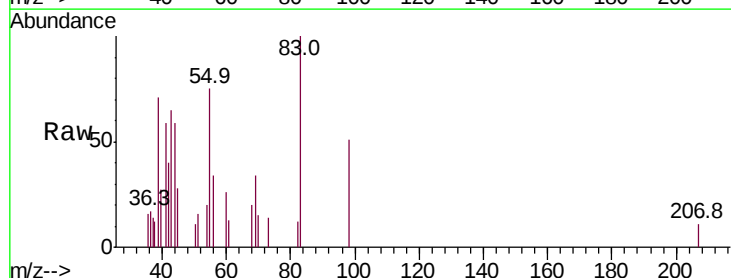
Tgt Ion: 83 Resp: 2238

Ion Ratio Lower Upper

83 100

55 49.5 60.3 90.5#

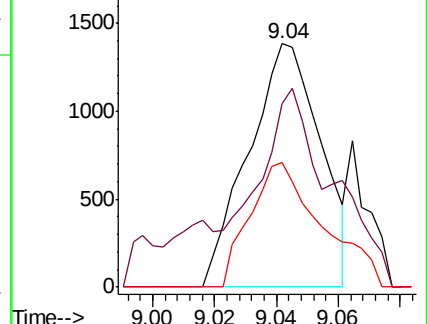
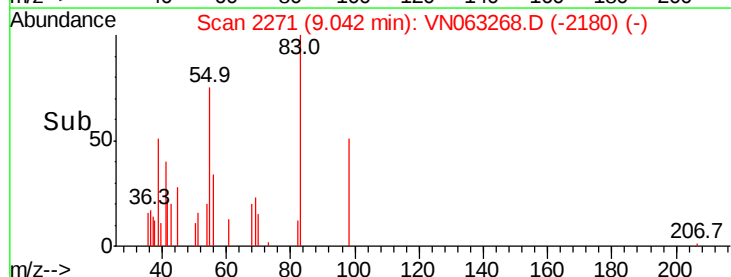
98 51.4 38.9 58.3

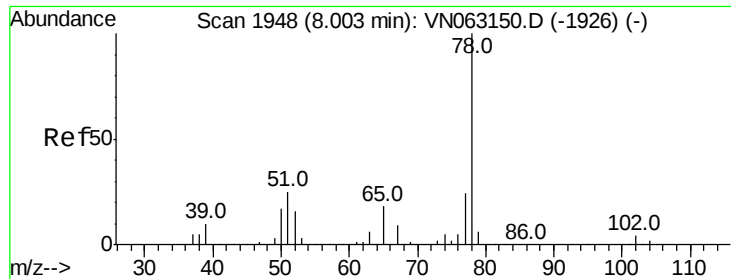


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 3.934 ug/l

RT: 8.01 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

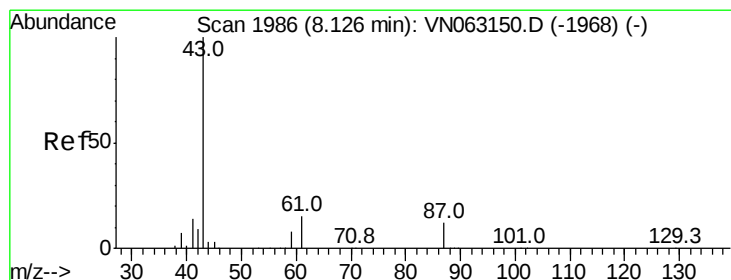
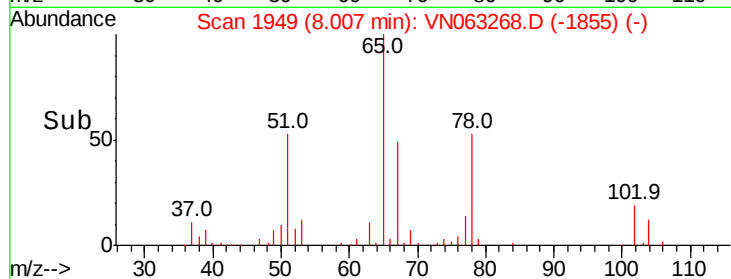
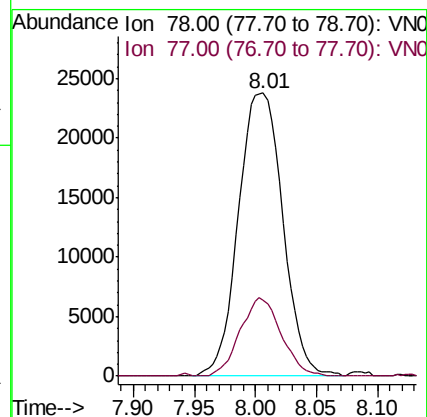
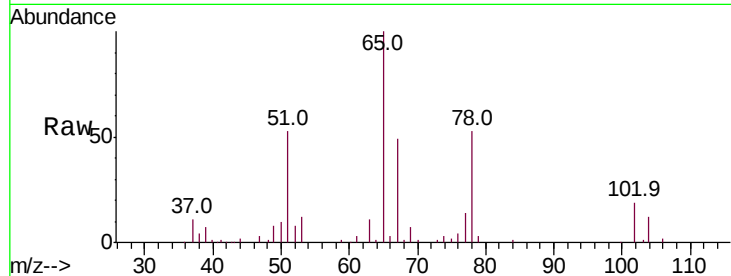
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

Tot Ion: 78 Resp: 59911

Ion Ratio Lower Upper

78 100

77 27.1 19.3 28.9



#43

Isopropyl Acetate

Concen: 8.635 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

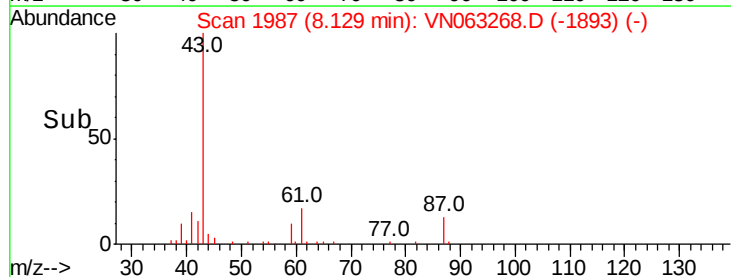
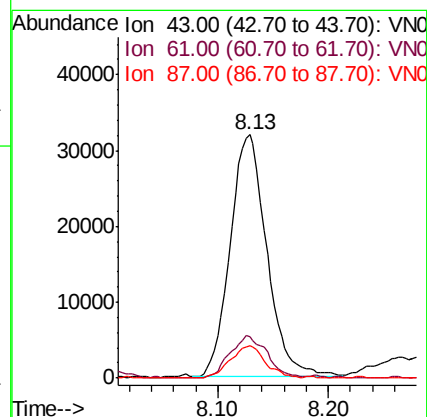
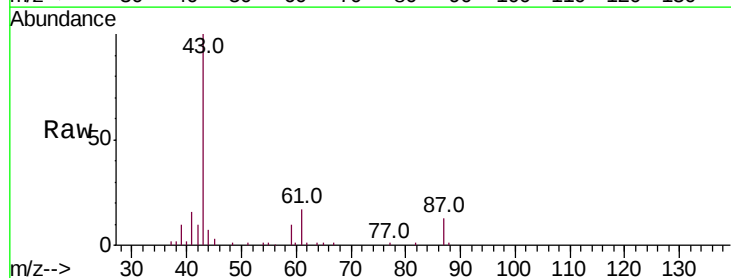
Tgt Ion: 43 Resp: 72987

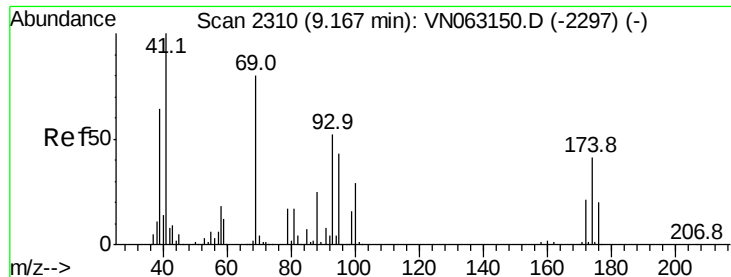
Ion Ratio Lower Upper

43 100

61 17.9 20.2 30.4#

87 12.9 9.8 14.6

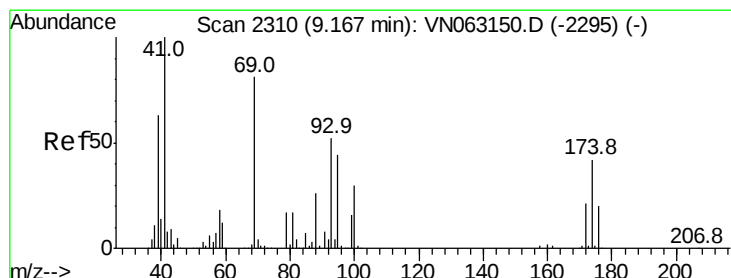
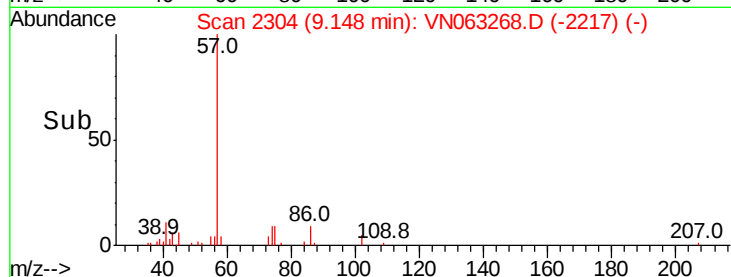
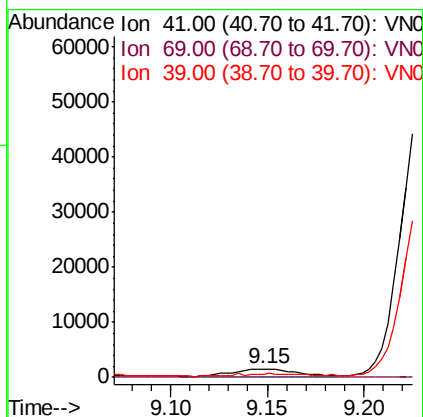
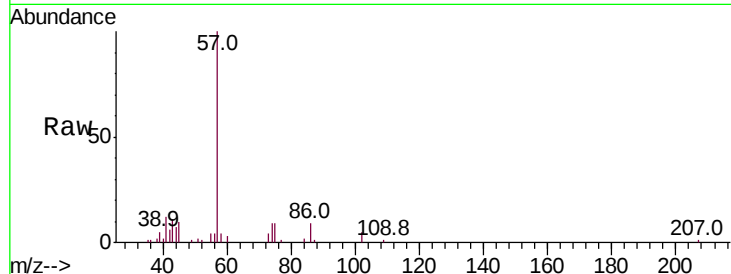




#48  
Methvl methacrylate  
Concen: 1.018 ug/l  
RT: 9.15 min Scan# 2304  
Delta R.T. -0.02 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

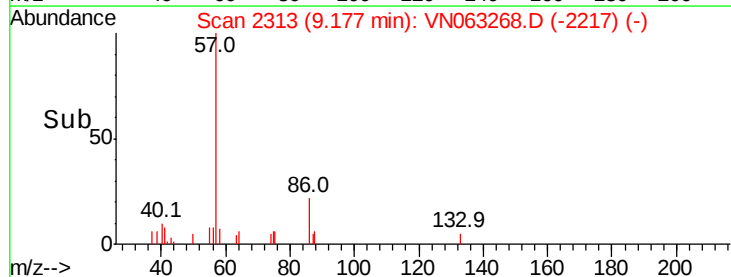
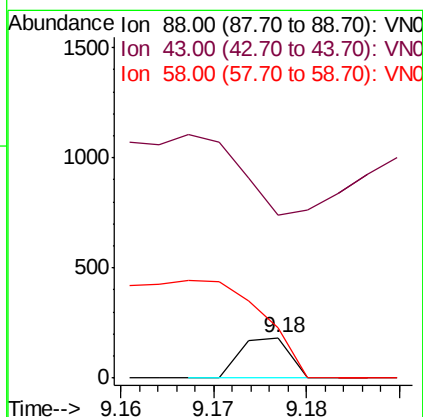
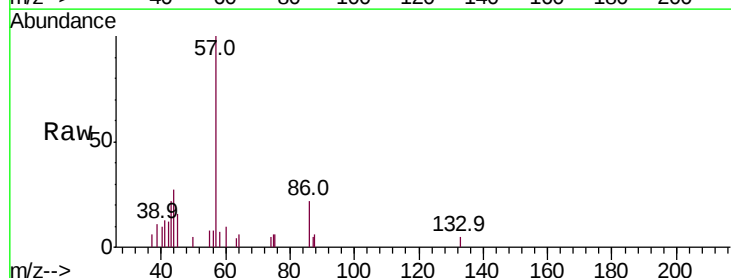
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

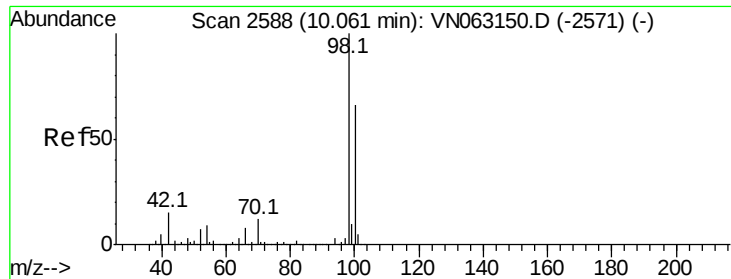
Tot Ion: 41 Resp: 3880  
Ion Ratio Lower Upper  
41 100  
69 1.7 65.9 98.9#  
39 0.0 52.0 78.0#



#49  
1,4-Dioxane  
Concen: 1.154 ug/l  
RT: 9.18 min Scan# 2313  
Delta R.T. 0.01 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion: 88 Resp: 68  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.6 42.8#  
58 0.0 53.2 79.8#





#50

Toluene-d8

Concen: 51.666 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampleId :

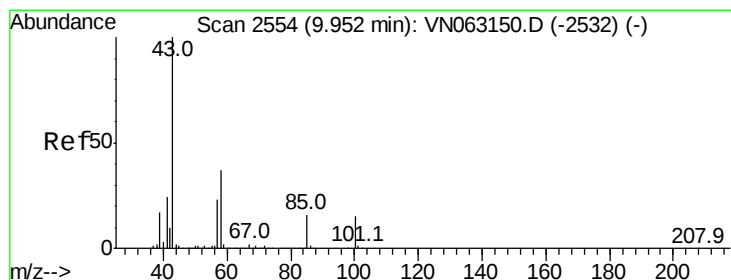
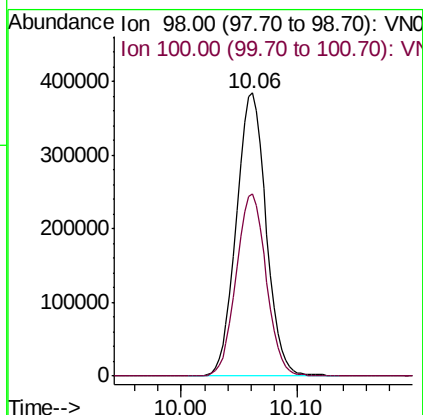
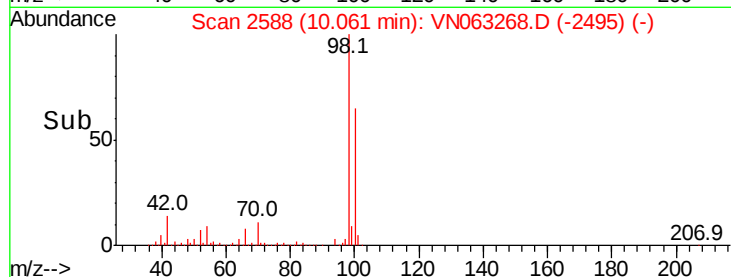
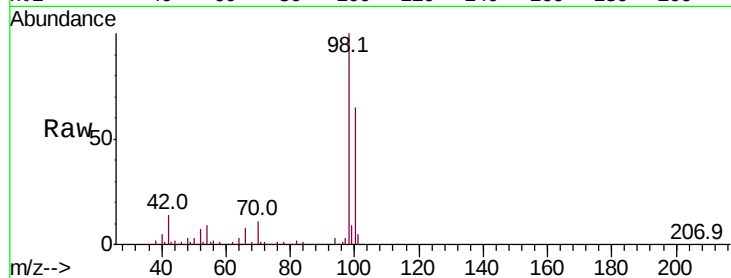
TP-4

Tot Ion: 98 Resp: 687815

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 2.219 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063268.D

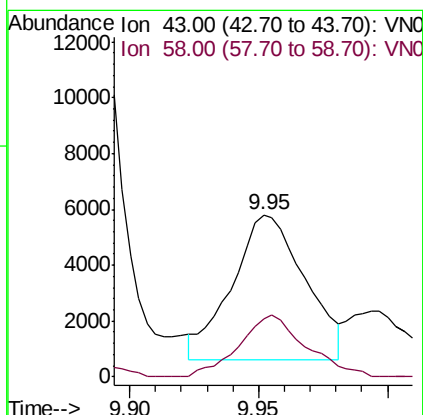
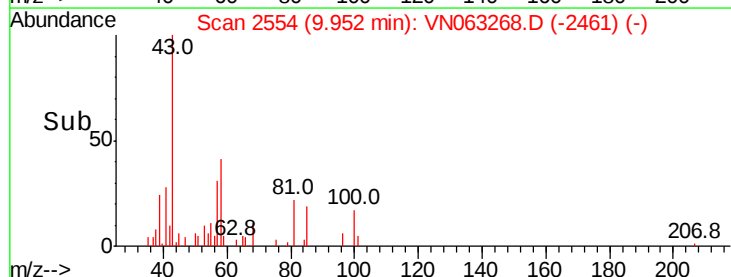
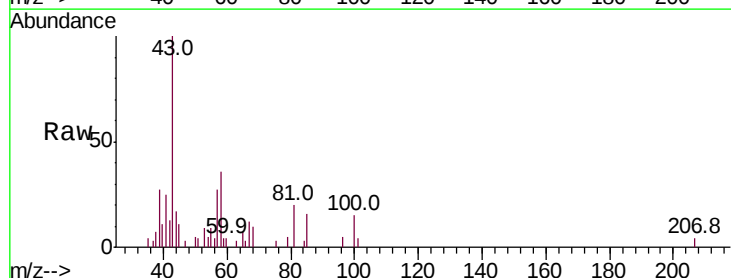
Acq: 5 Sep 2020 4:48

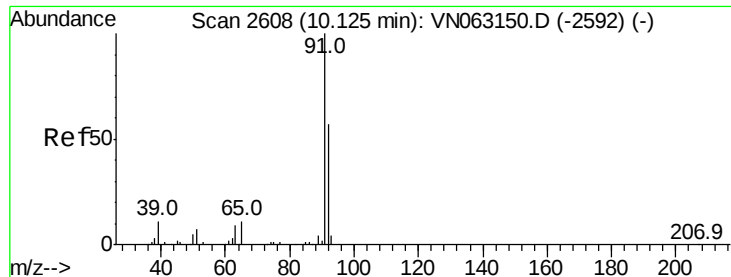
Tgt Ion: 43 Resp: 10192

Ion Ratio Lower Upper

43 100

58 39.3 29.2 43.8





#52

Toluene

Concen: 1.170 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

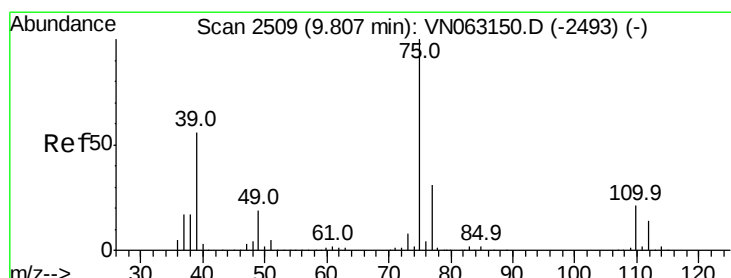
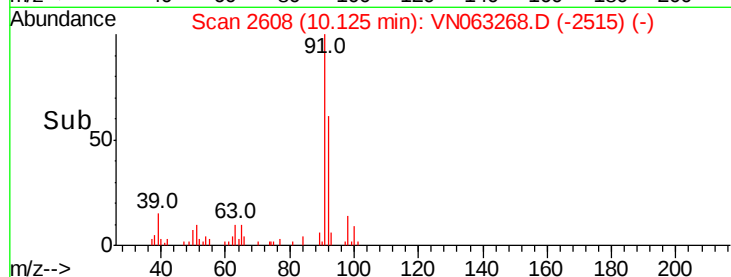
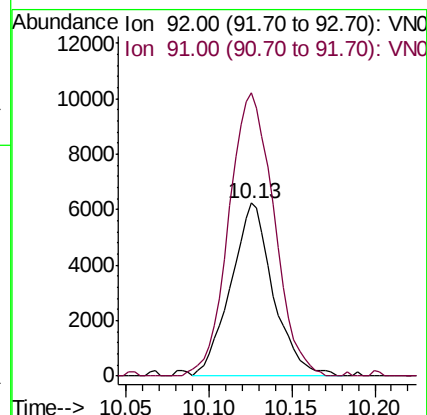
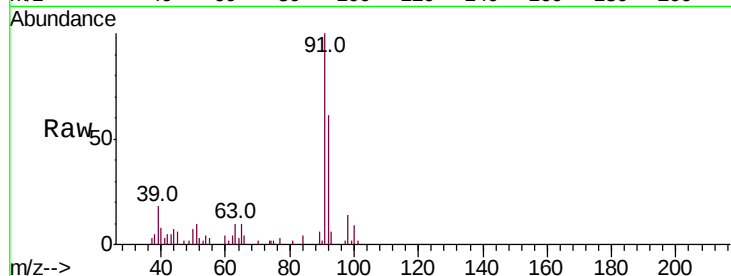
TP-4

Tot Ion: 92 Resp: 11100

Ion Ratio Lower Upper

92 100

91 173.9 141.2 211.8



#54

cis-1,3-Dichloropropene

Concen: 4.744 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

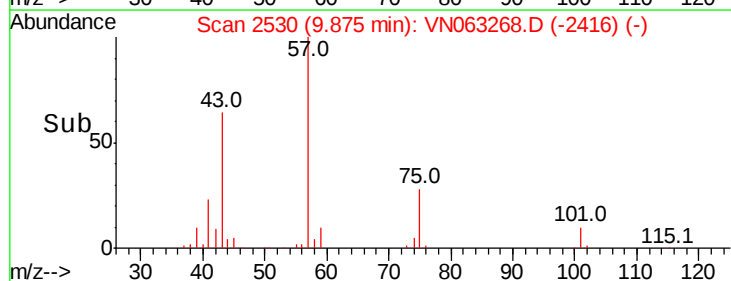
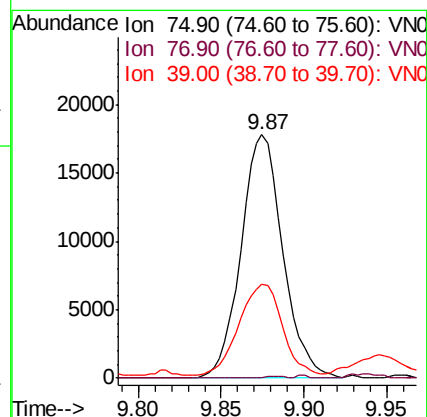
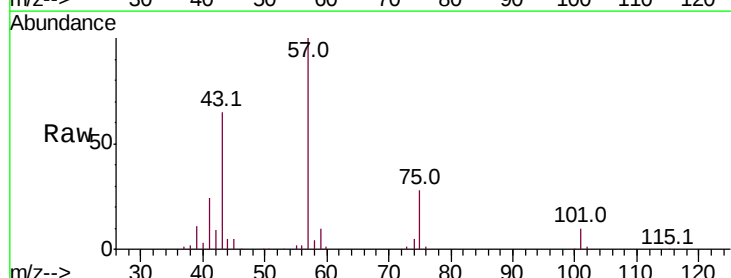
Tgt Ion: 75 Resp: 31202

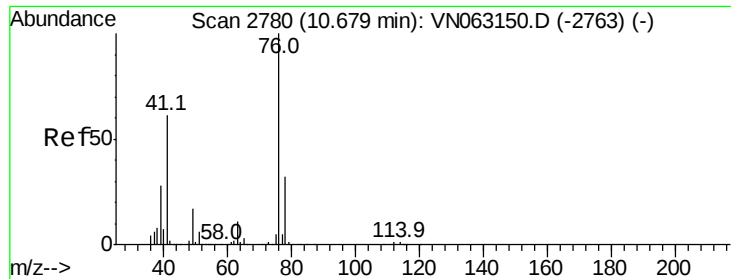
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 37.3 45.0 67.6#

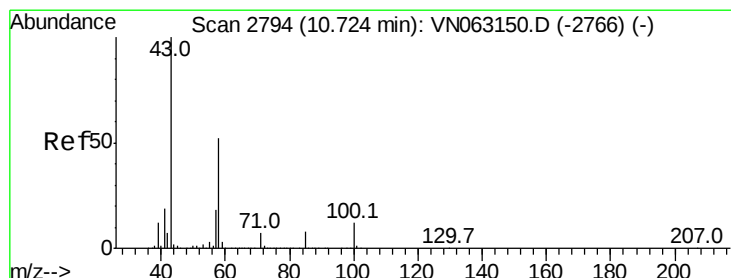
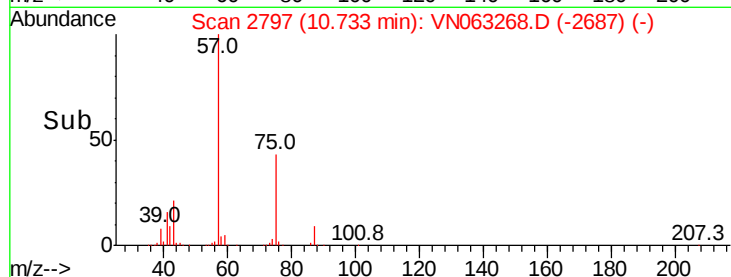
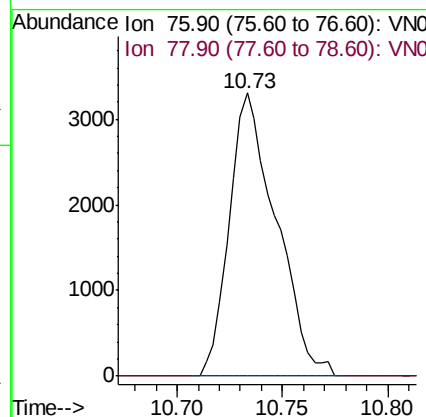
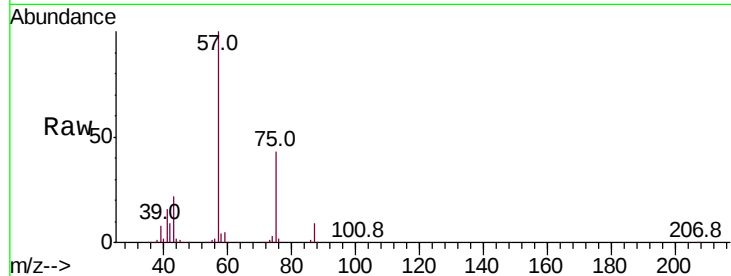




#57  
 1,3-Dichloropropane  
 Concen: 0.788 ug/l  
 RT: 10.73 min Scan# 2797  
 Delta R.T. 0.05 min  
 Lab File: VN063268.D  
 Acq: 5 Sep 2020 4:48

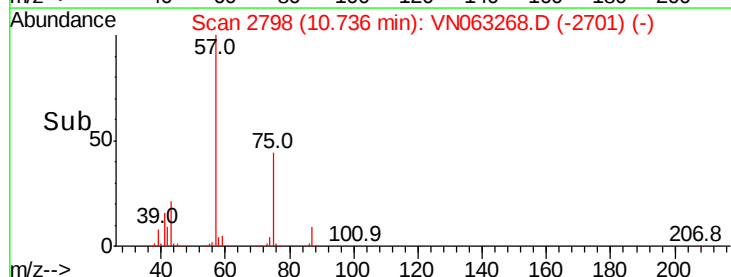
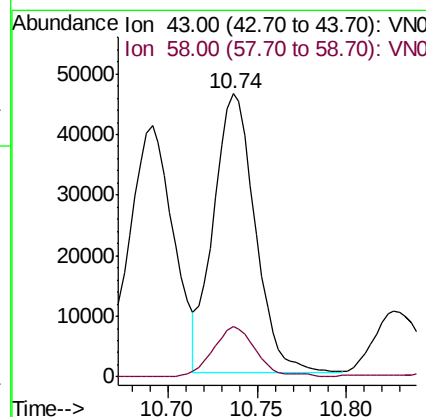
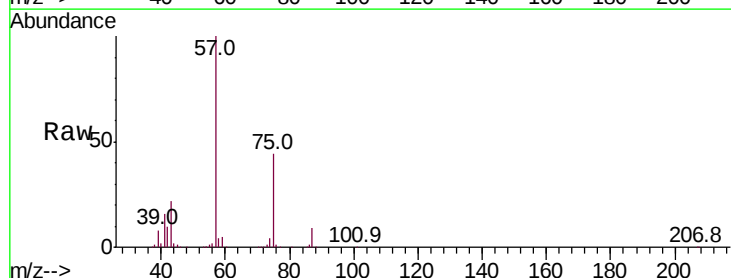
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-4

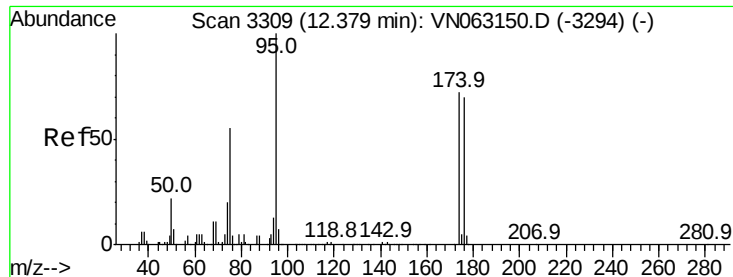
Tot Ion: 76 Resp: 5101  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.5 38.3#



#59  
 2-Hexanone  
 Concen: 23.112 ug/l  
 RT: 10.74 min Scan# 2798  
 Delta R.T. 0.01 min  
 Lab File: VN063268.D  
 Acq: 5 Sep 2020 4:48

Tgt Ion: 43 Resp: 74605  
 Ion Ratio Lower Upper  
 43 100  
 58 18.3 25.9 77.8#





#62

4-Bromofluorobenzene

Concen: 53.130 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampleId :

TP-4

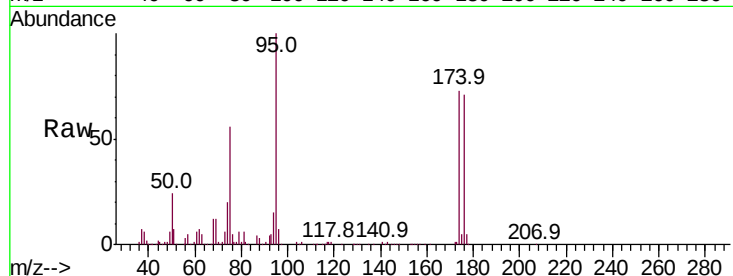
Tot Ion: 95 Resp: 247420

Ion Ratio Lower Upper

95 100

174 75.2 0.0 143.8

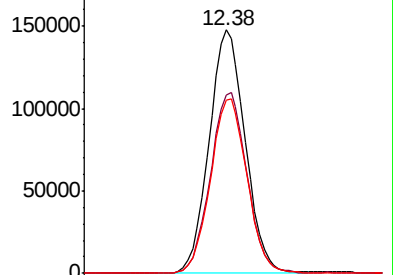
176 72.9 0.0 138.4



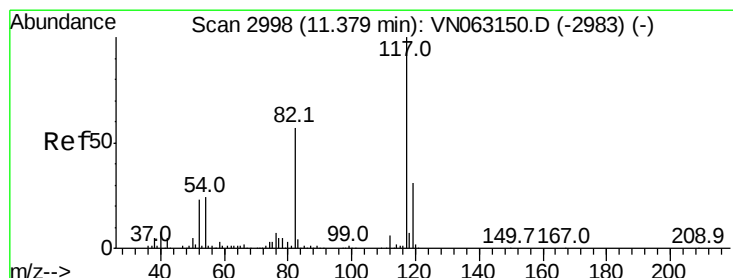
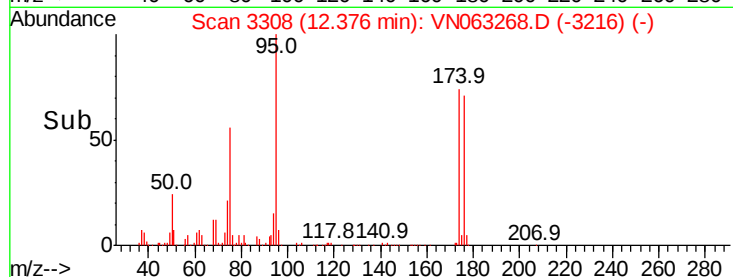
Abundance Ion 94.90 (94.60 to 95.60): VN063150.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063150.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063150.D (-3294) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

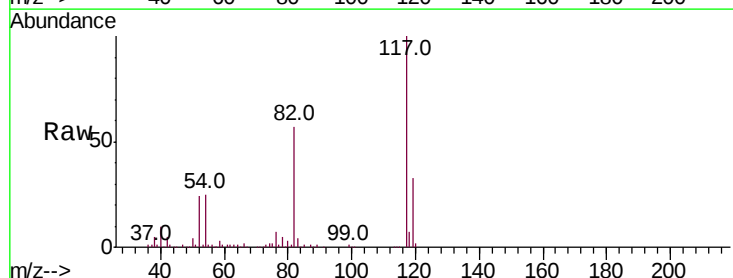
Tgt Ion: 117 Resp: 544242

Ion Ratio Lower Upper

117 100

82 57.2 45.4 68.0

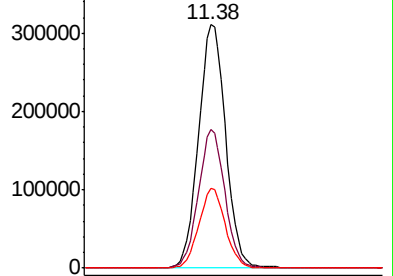
119 32.6 24.6 37.0



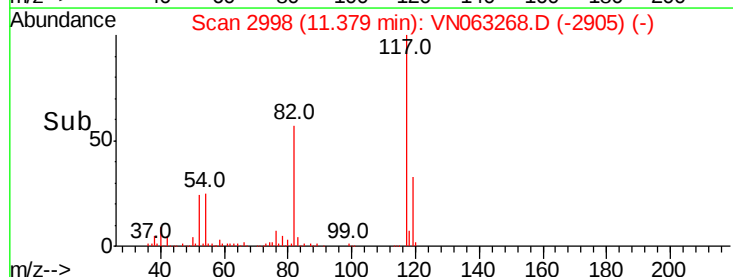
Abundance Ion 116.90 (116.60 to 117.60): VN063150.D (-2983) (-)

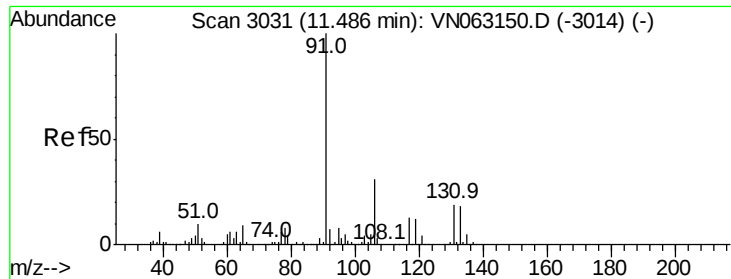
Ion 82.00 (81.70 to 82.70): VN063150.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063150.D (-2983) (-)



Time-->

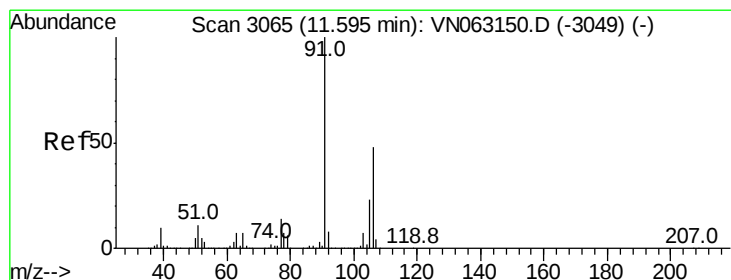
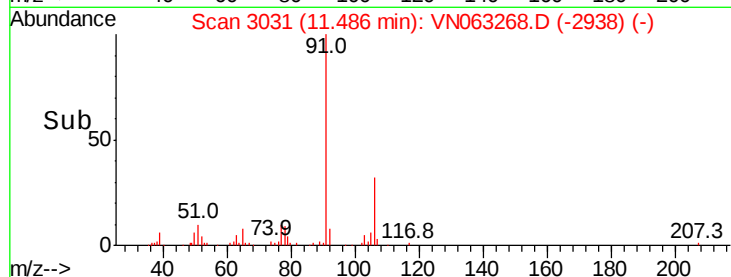
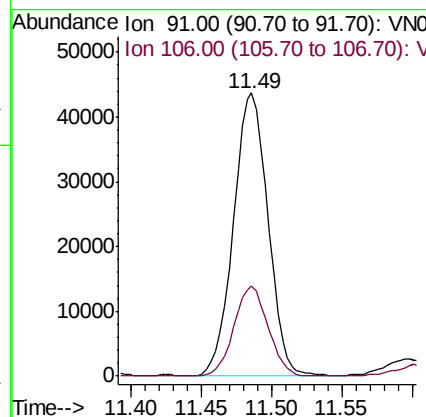
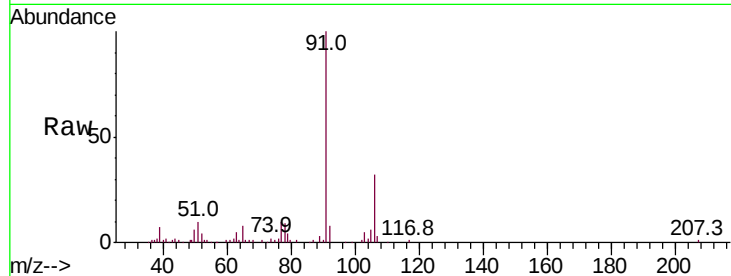




#67  
Ethyl Benzene  
Concen: 3.749 ug/l  
RT: 11.49 min Scan# 3031  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

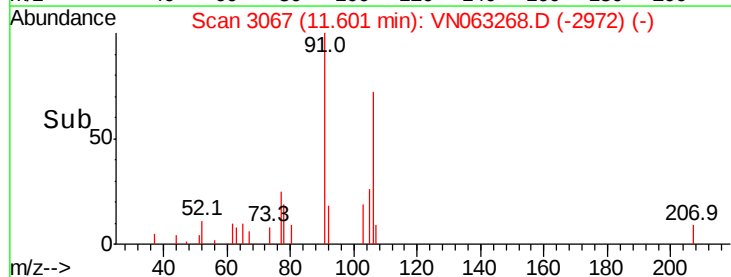
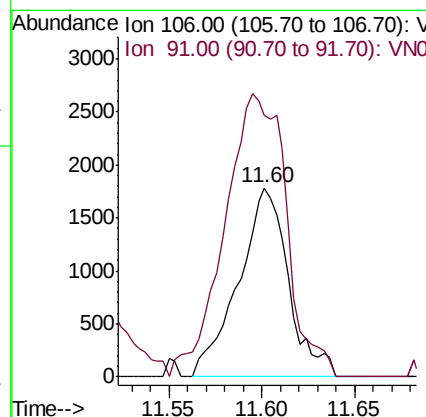
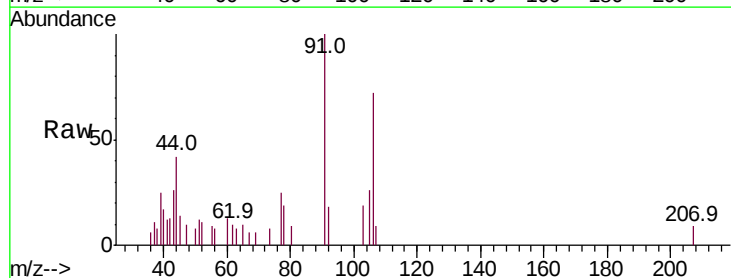
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

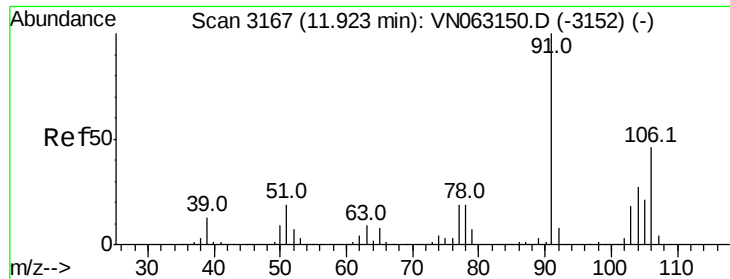
Tot Ion: 91 Resp: 74966  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.4 36.6



#68  
m/p-Xylenes  
Concen: 0.453 ug/l  
RT: 11.60 min Scan# 3067  
Delta R.T. 0.01 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion: 106 Resp: 3354  
Ion Ratio Lower Upper  
106 100  
91 184.3 166.7 250.1

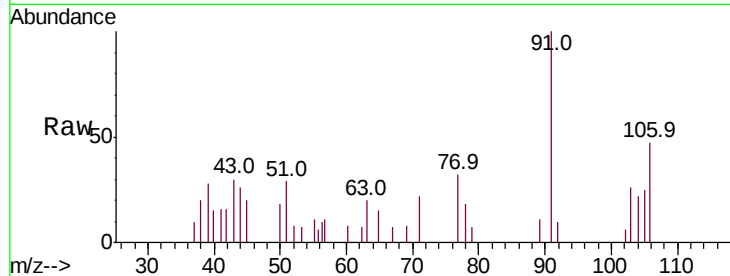




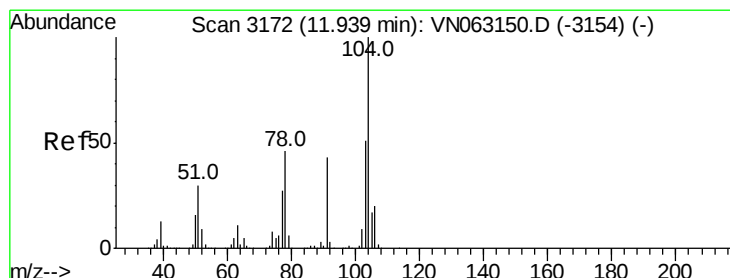
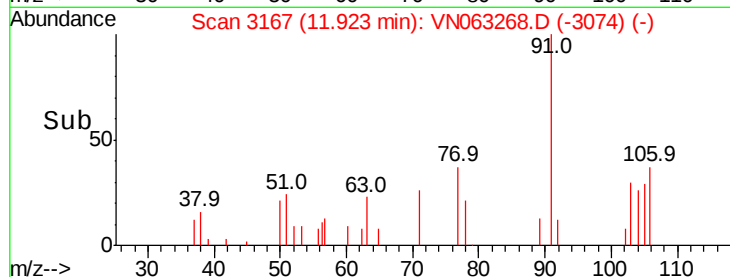
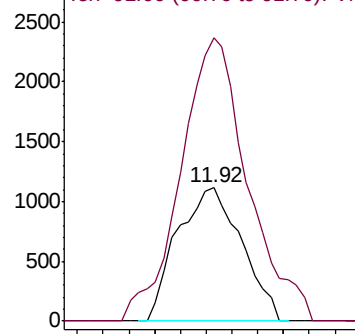
#69  
o-Xylene  
Concen: 0.270 ug/l  
RT: 11.92 min Scan# 3167  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

Tot Ion:106 Resp: 1935  
Ion Ratio Lower Upper  
106 100  
91 221.1 108.6 325.6

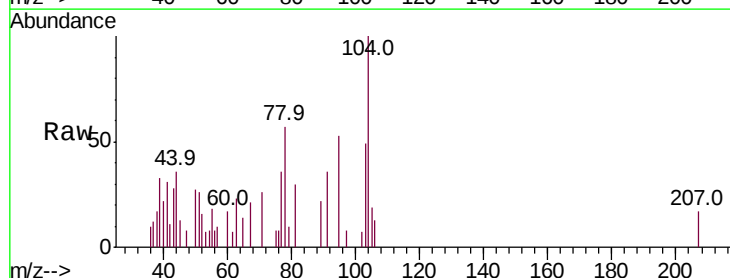


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0

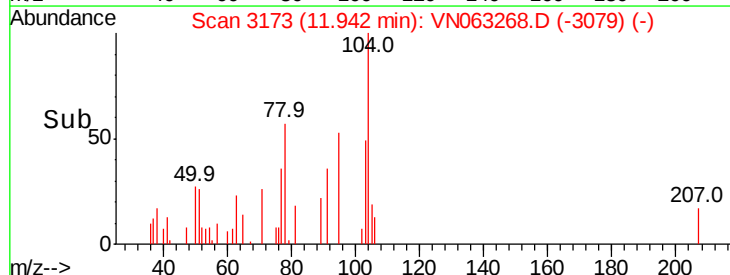
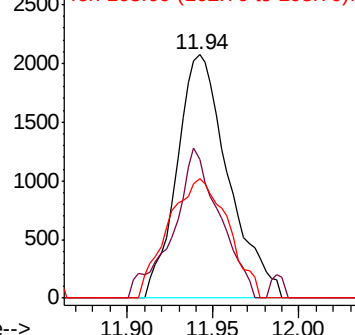


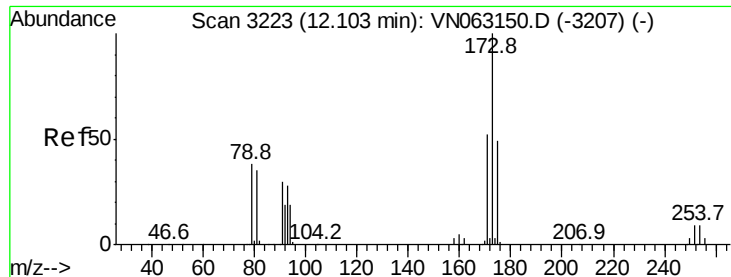
#70  
Styrene  
Concen: 0.352 ug/l  
RT: 11.94 min Scan# 3173  
Delta R.T. 0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion:104 Resp: 4332  
Ion Ratio Lower Upper  
104 100  
78 55.7 41.0 61.6  
103 56.9 43.8 65.8



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VN0  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.508 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.27 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

TP-4

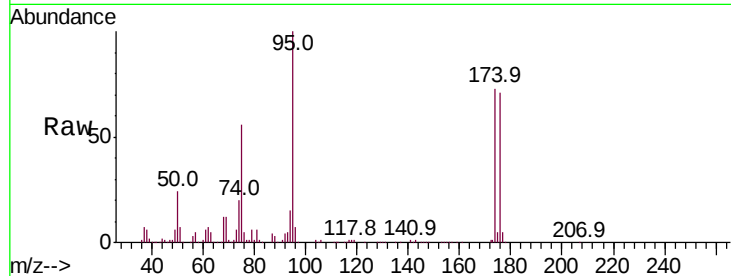
Tot Ion:173 Resp: 1402

Ion Ratio Lower Upper

173 100

175 913.7 24.6 73.8#

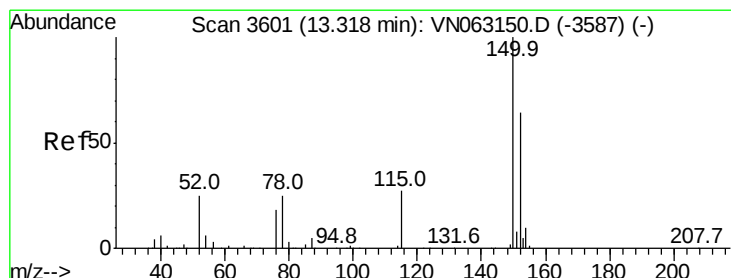
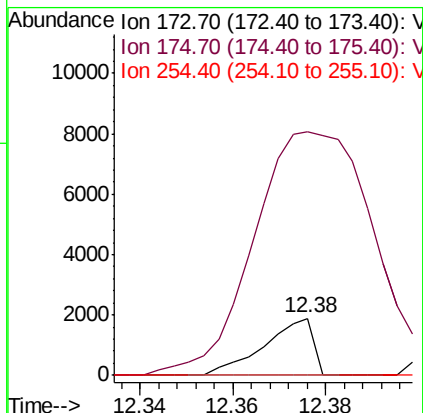
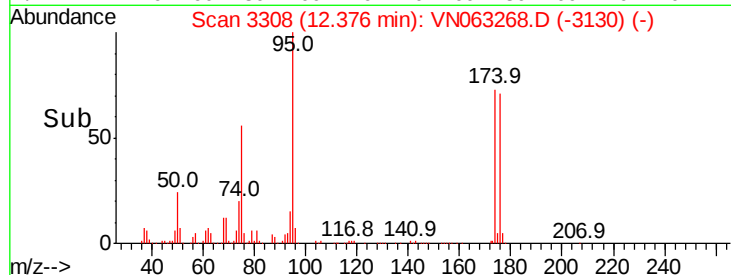
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

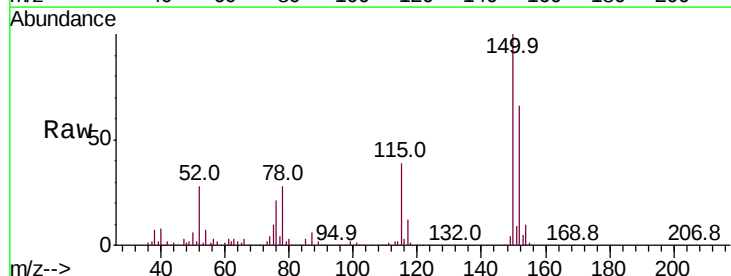
Tgt Ion:152 Resp: 228190

Ion Ratio Lower Upper

152 100

115 59.5 32.0 96.2

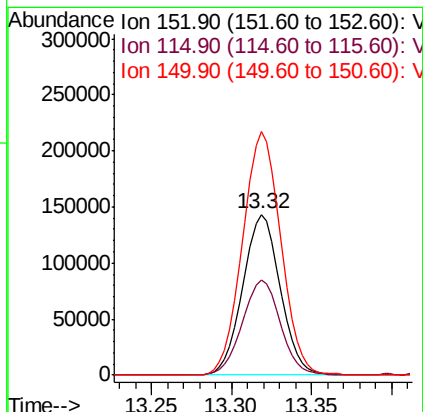
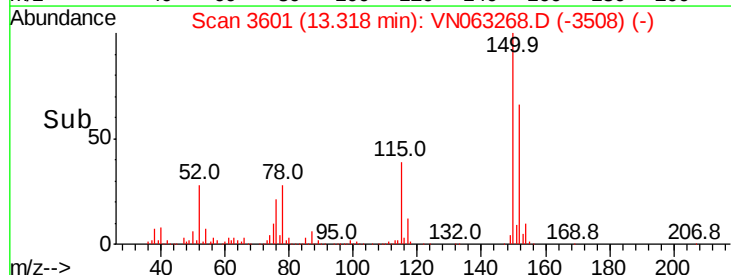
150 155.6 0.0 353.0

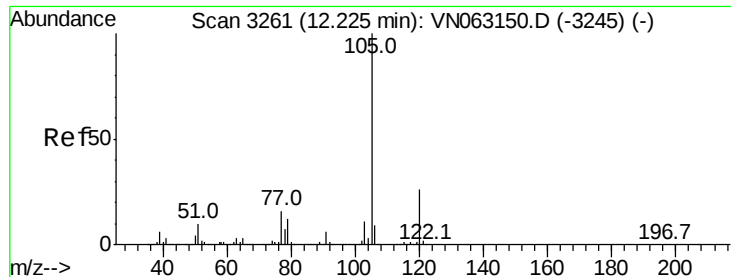


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 7.465 ug/l

RT: 12.23 min Scan# 3261

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

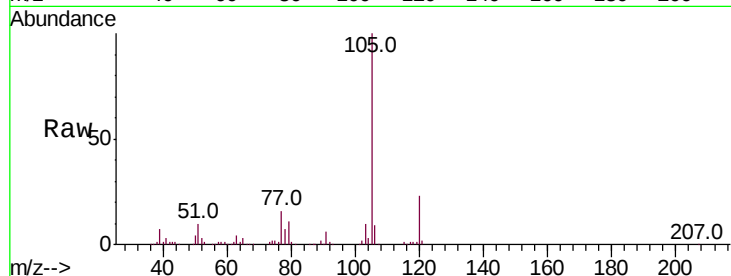
TP-4

Tot Ion:105 Resp: 130653

Ion Ratio Lower Upper

105 100

120 24.7 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.23

80000

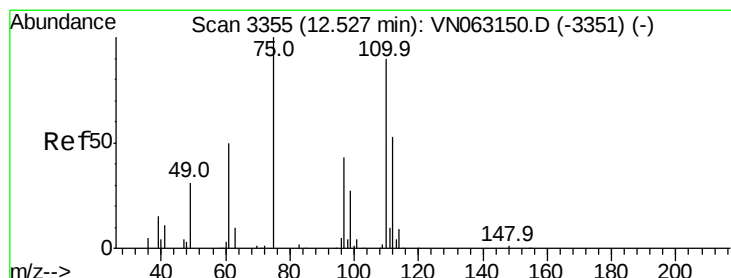
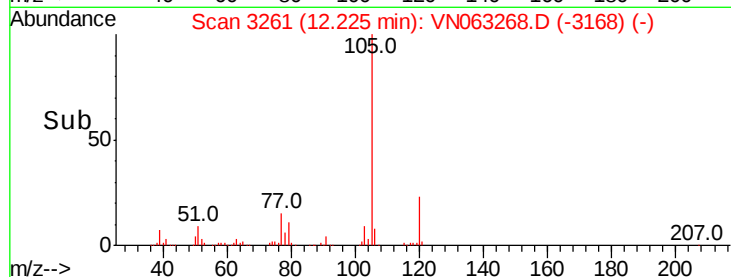
60000

40000

20000

0

Time--> 12.15 12.20 12.25 12.30



#76

1,2,3-Trichloropropane

Concen: 31.384 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063268.D

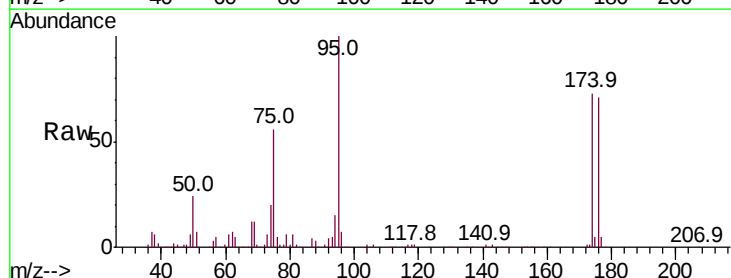
Acq: 5 Sep 2020 4:48

Tgt Ion: 75 Resp: 140708

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.38

80000

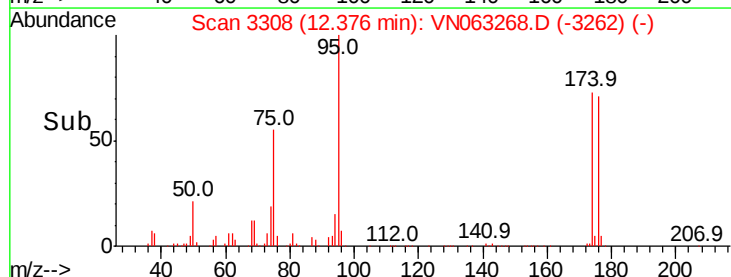
60000

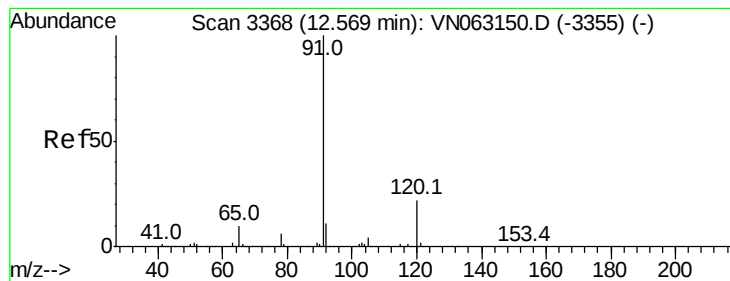
40000

20000

0

Time--> 12.30 12.40





#78

n-propylbenzene

Concen: 3.352 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

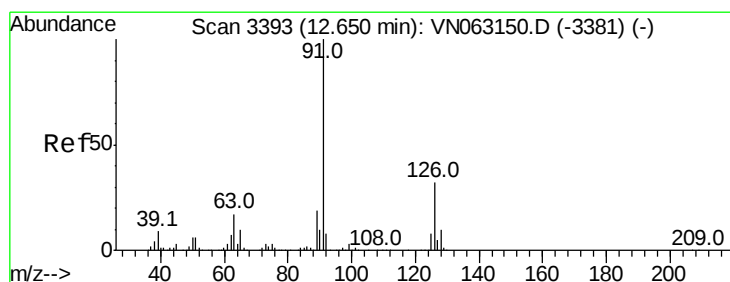
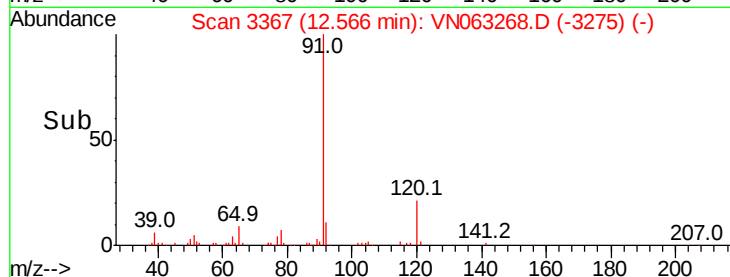
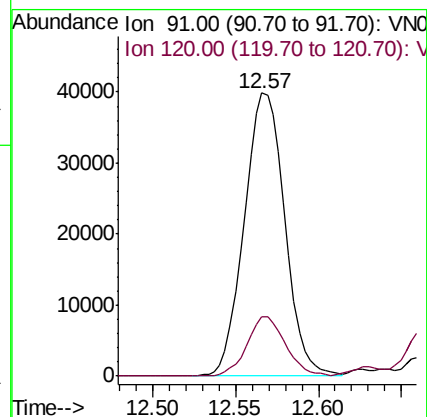
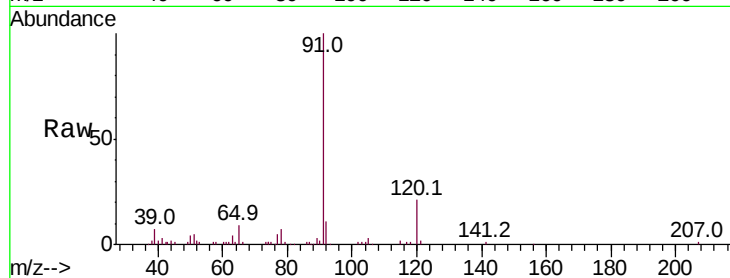
TP-4

Tot Ion: 91 Resp: 67882

Ion Ratio Lower Upper

91 100

120 19.9 10.9 32.7



#79

2-Chlorotoluene

Concen: 0.345 ug/l

RT: 12.66 min Scan# 3396

Delta R.T. 0.01 min

Lab File: VN063268.D

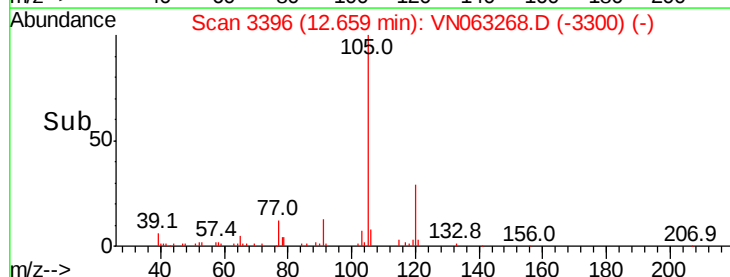
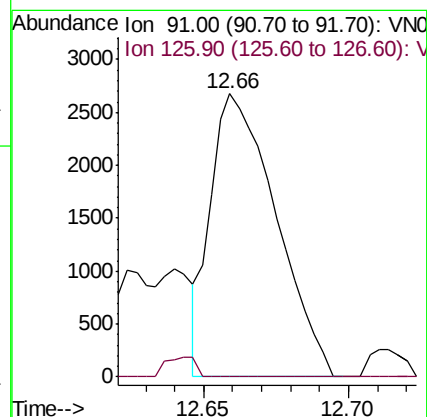
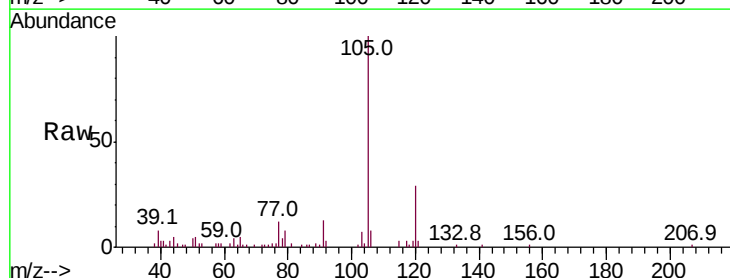
Acq: 5 Sep 2020 4:48

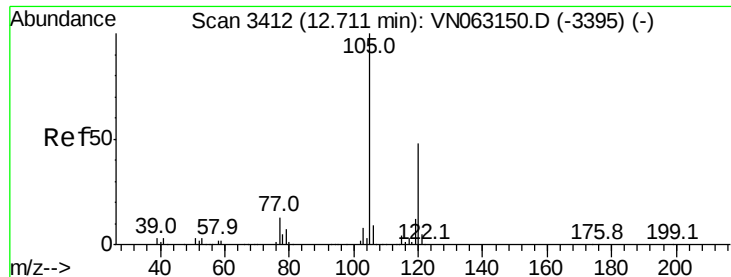
Tgt Ion: 91 Resp: 4182

Ion Ratio Lower Upper

91 100

126 3.2 16.1 48.3#





#80

1,3,5-Trimethylbenzene

Concen: 2.543 ug/l

RT: 12.67 min Scan# 3398

Delta R.T. -0.05 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

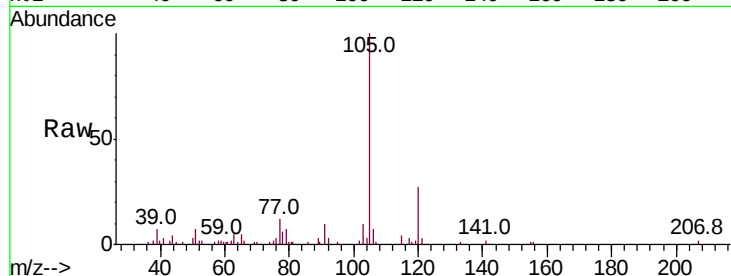
TP-4

Tot Ion:105 Resp: 37051

Ion Ratio Lower Upper

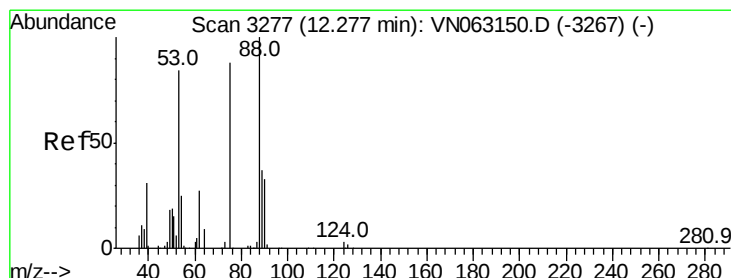
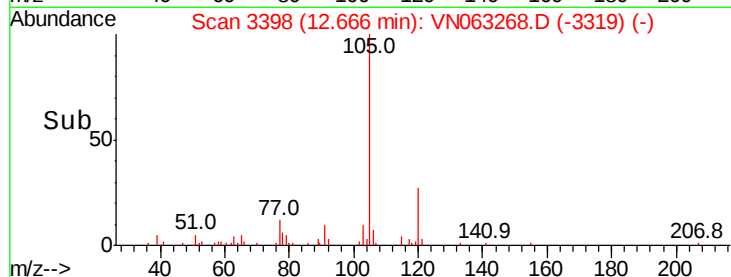
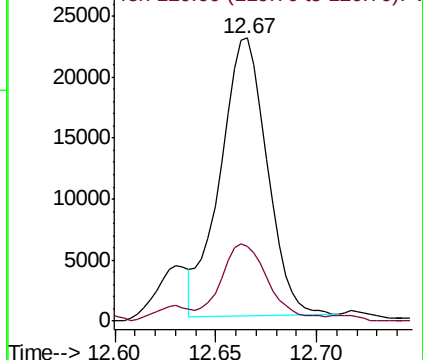
105 100

120 25.1 24.2 72.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 75.854 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

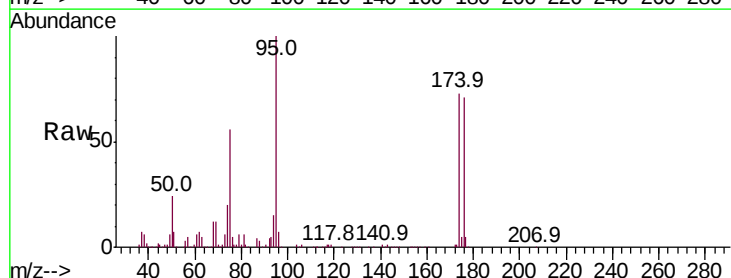
Tgt Ion: 75 Resp: 140708

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

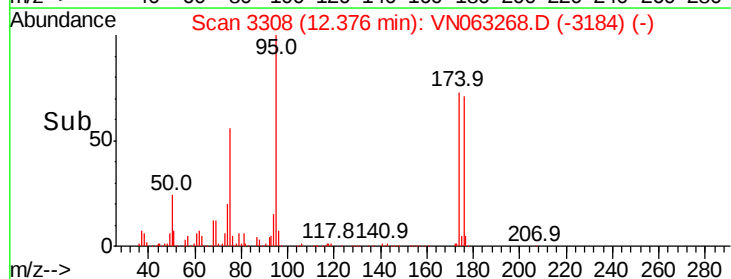
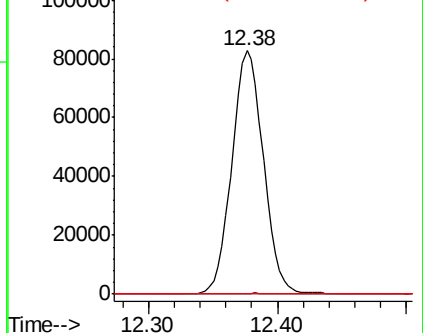
89 0.0 35.3 52.9#

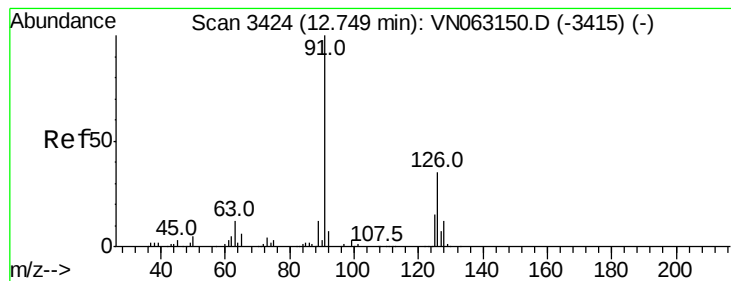


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.332 ug/l

RT: 12.66 min Scan# 3396

Delta R.T. -0.09 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

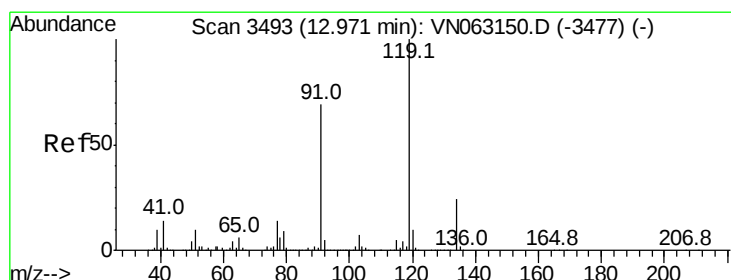
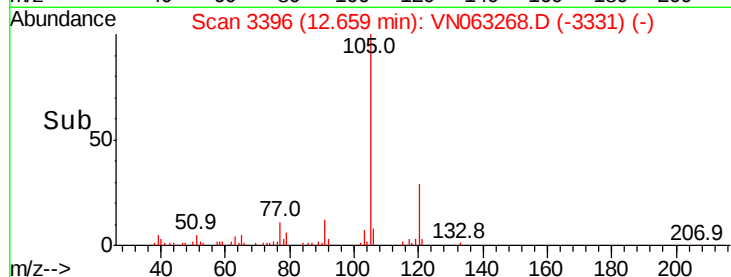
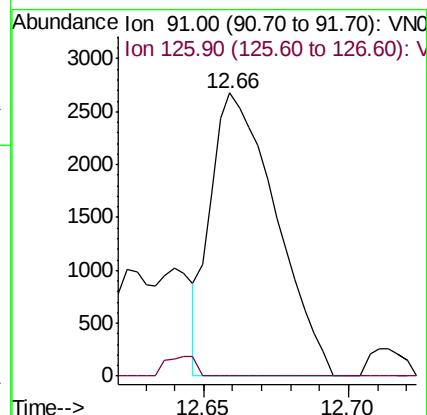
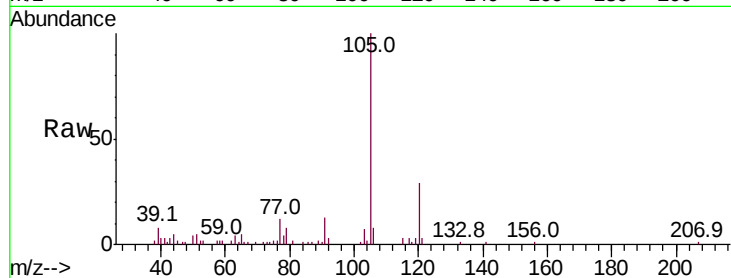
TP-4

Tot Ion: 91 Resp: 4182

Ion Ratio Lower Upper

91 100

126 3.2 16.2 48.5#



#83

tert-Butylbenzene

Concen: 0.561 ug/l

RT: 12.97 min Scan# 3493

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

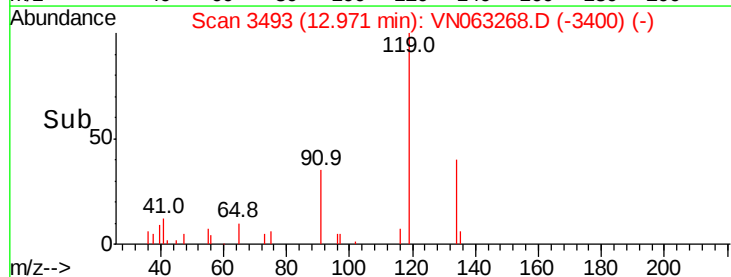
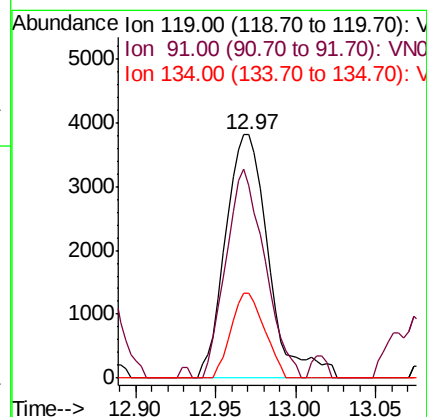
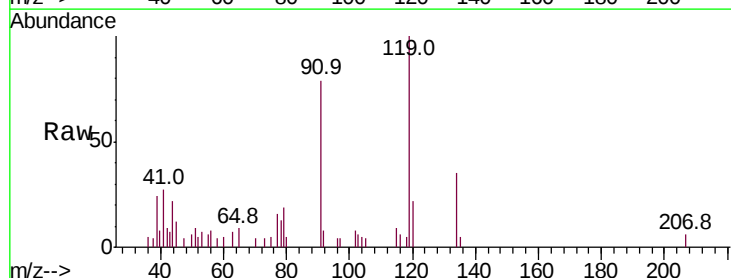
Tgt Ion: 119 Resp: 7009

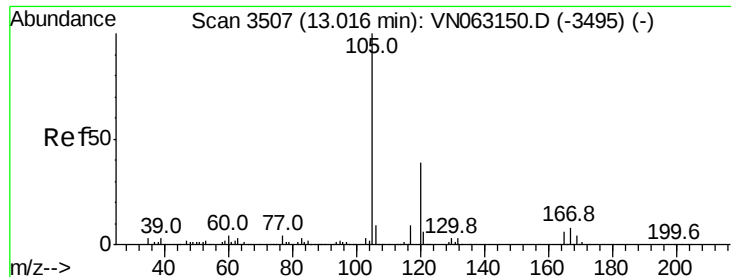
Ion Ratio Lower Upper

119 100

91 77.4 33.7 101.0

134 26.9 12.0 36.0





#84

1,2,4-Trimethylbenzene

Concen: 6.471 ug/l

RT: 12.87 min Scan# 3461

Delta R.T. -0.15 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

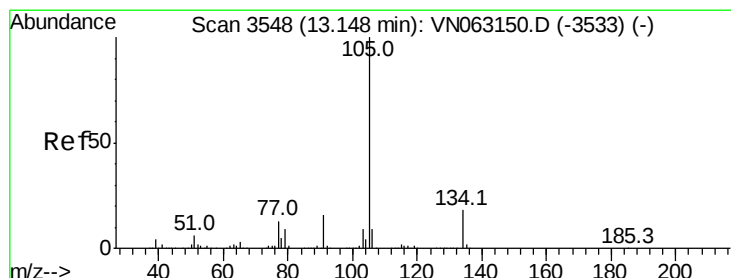
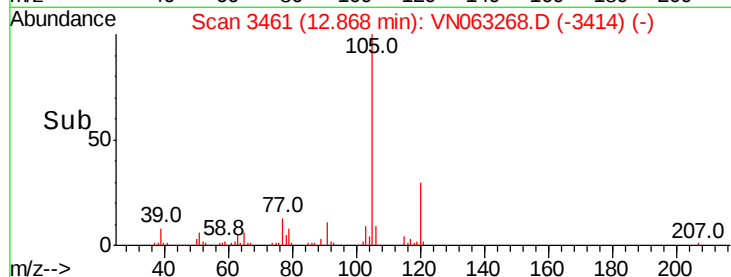
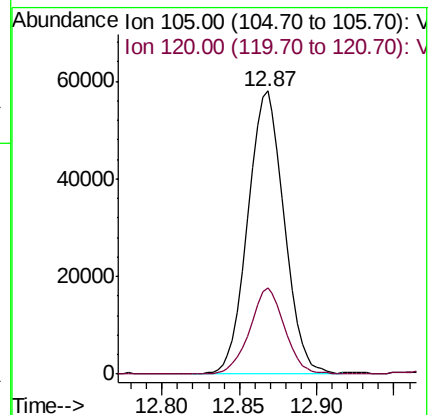
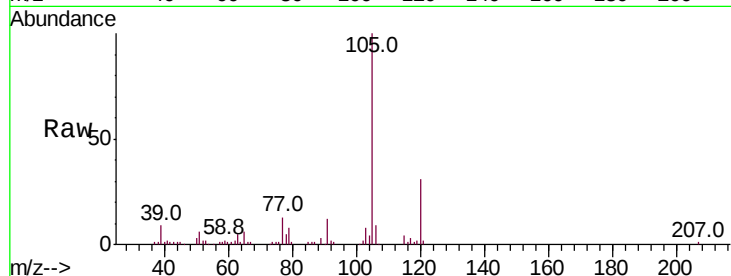
TP-4

Tot Ion:105 Resp: 95026

Ion Ratio Lower Upper

105 100

120 29.2 22.6 67.7



#85

sec-Butylbenzene

Concen: 1.802 ug/l

RT: 13.15 min Scan# 3548

Delta R.T. -0.00 min

Lab File: VN063268.D

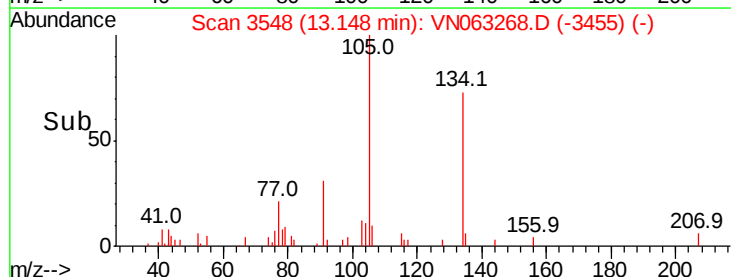
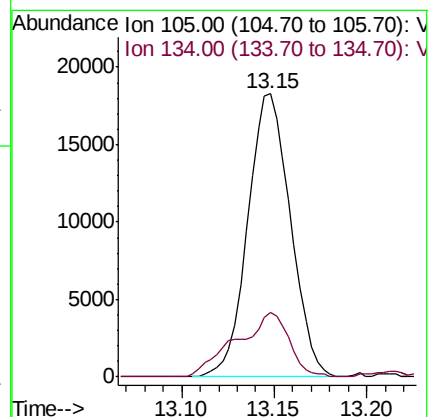
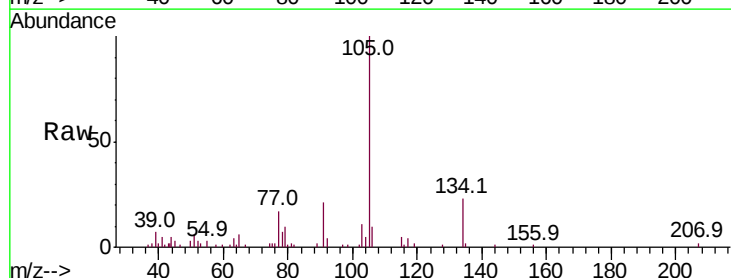
Acq: 5 Sep 2020 4:48

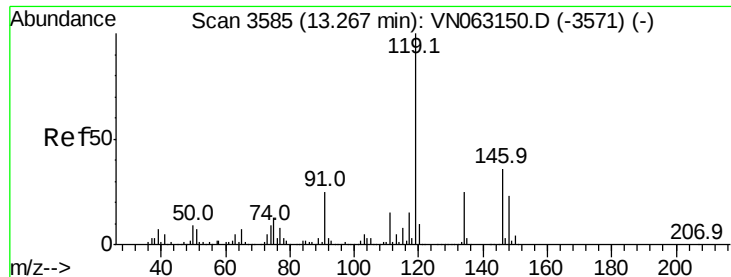
Tgt Ion:105 Resp: 29339

Ion Ratio Lower Upper

105 100

134 28.3 9.4 28.3

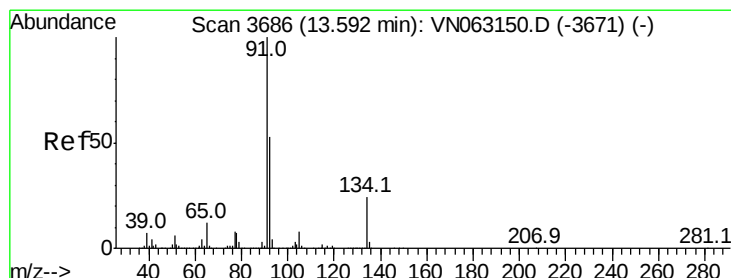
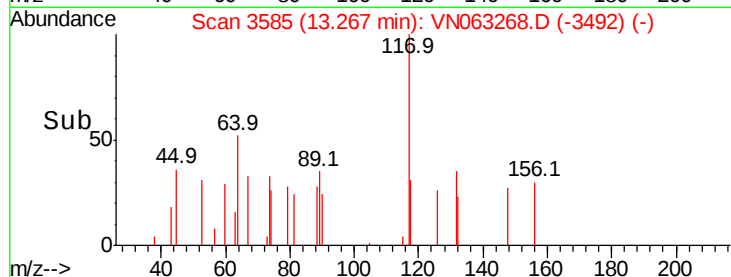
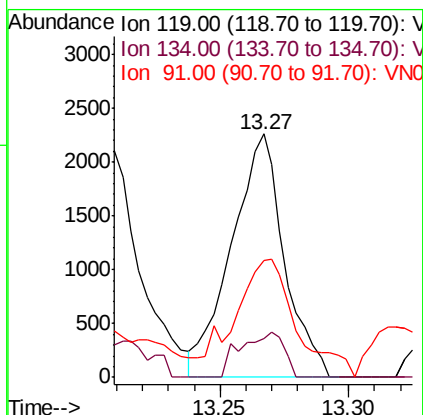
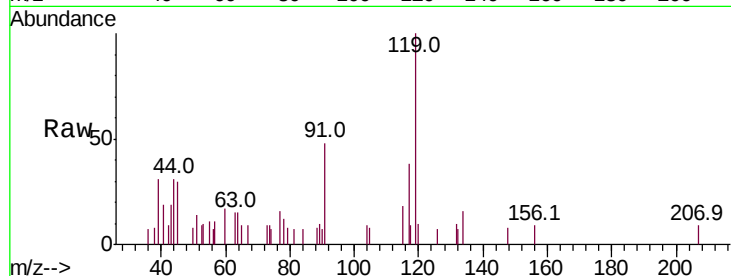




#86  
p-Isopropyltoluene  
Concen: 0.223 ug/l  
RT: 13.27 min Scan# 3585  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

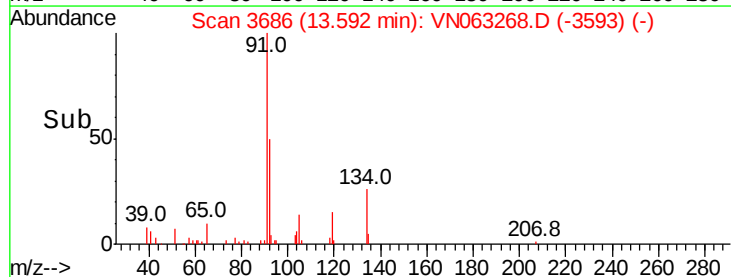
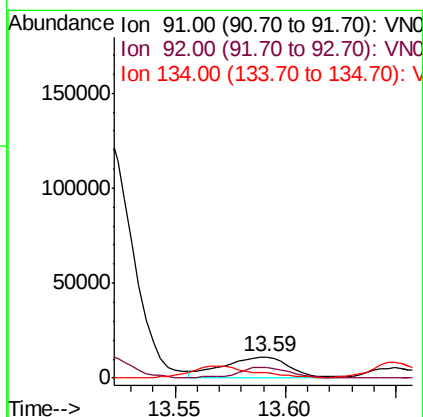
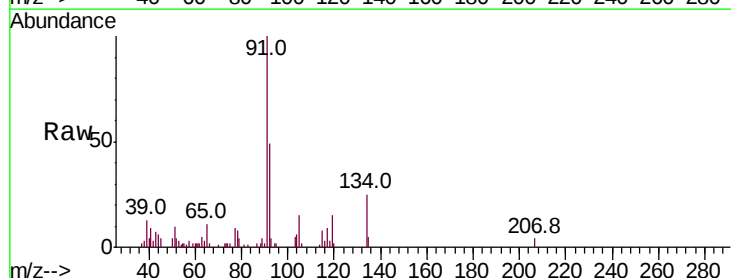
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-4

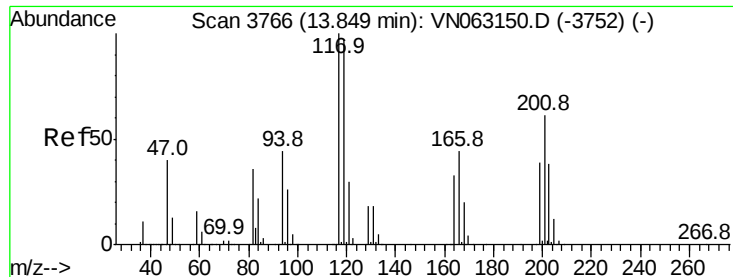
Tot Ion:119 Resp: 3225  
Ion Ratio Lower Upper  
119 100  
134 0.0 12.4 37.4#  
91 0.0 12.2 36.6#



#89  
n-Butylbenzene  
Concen: 1.685 ug/l  
RT: 13.59 min Scan# 3686  
Delta R.T. -0.00 min  
Lab File: VN063268.D  
Acq: 5 Sep 2020 4:48

Tgt Ion: 91 Resp: 22502  
Ion Ratio Lower Upper  
91 100  
92 37.9 26.3 78.8  
134 0.0 12.0 36.0#





#90

Hexachloroethane

Concen: 10.203 ug/l

RT: 13.86 min Scan# 3770

Delta R.T. 0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampled :

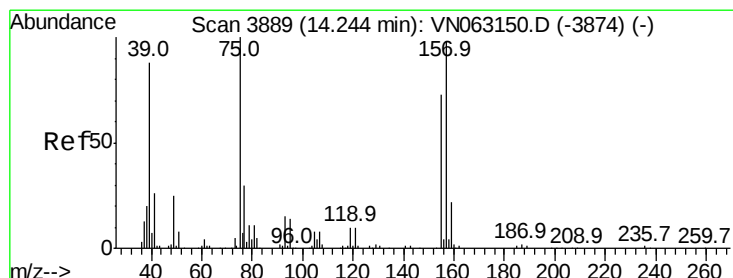
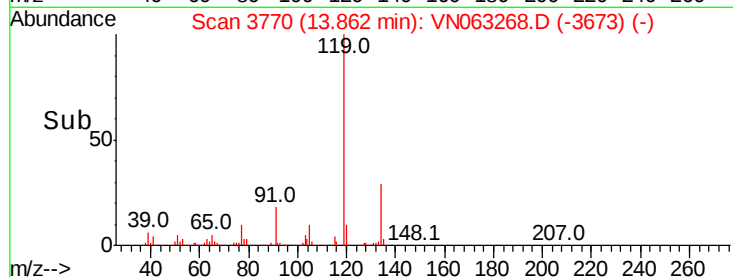
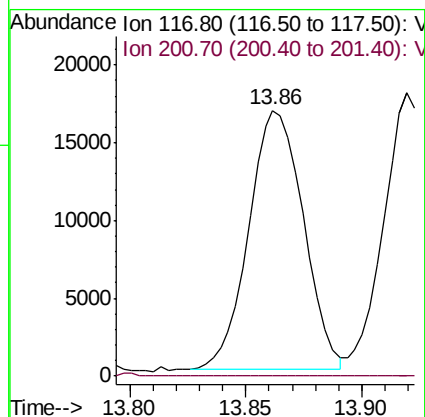
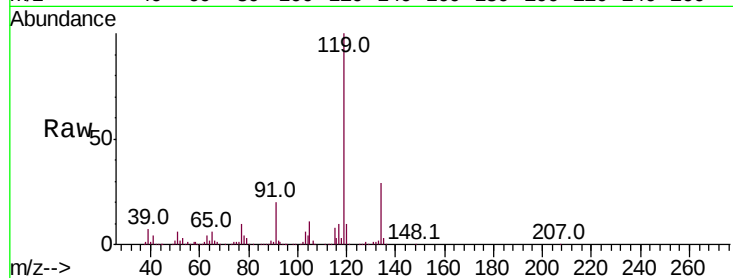
TP-4

Tot Ion:117 Resp: 27303

Ion Ratio Lower Upper

117 100

201 0.0 30.6 92.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.334 ug/l

RT: 14.26 min Scan# 3893

Delta R.T. 0.01 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

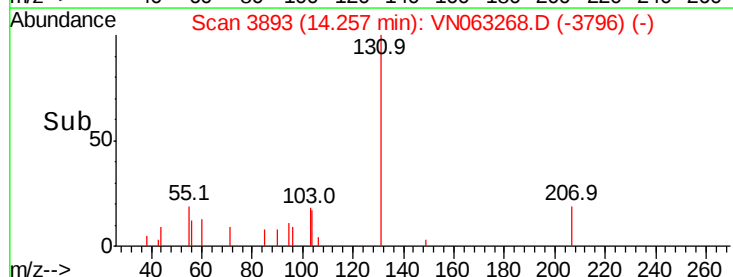
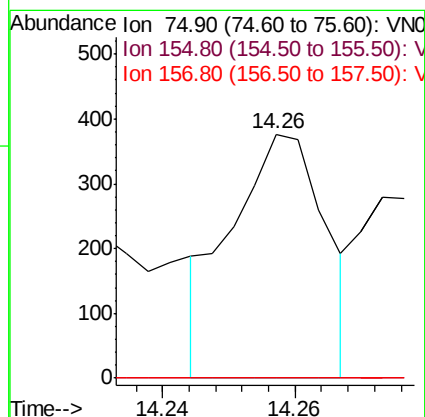
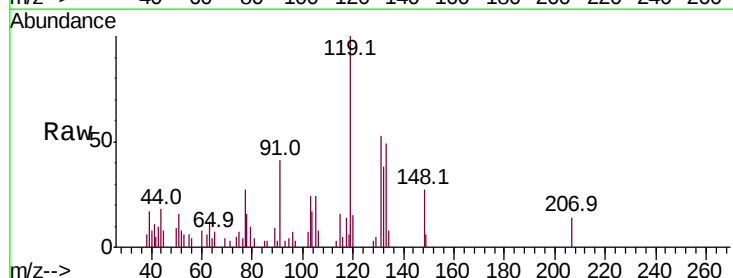
Tgt Ion: 75 Resp: 370

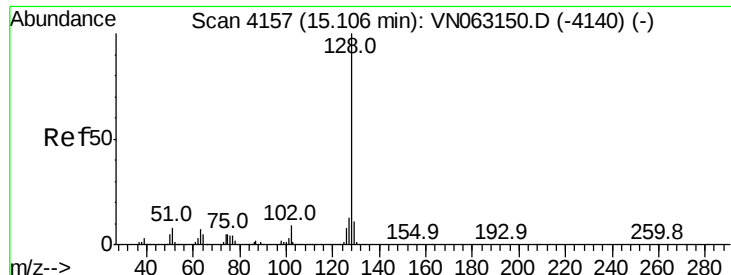
Ion Ratio Lower Upper

75 100

155 0.0 36.1 108.5#

157 0.0 48.4 145.0#





#95

Naphthalene

Concen: 8.999 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN063268.D

Acq: 5 Sep 2020 4:48

Instrument :

MSVOA\_N

ClientSampleId :

TP-4

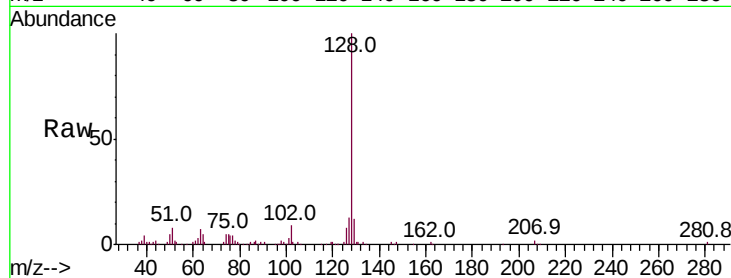
Tot Ion:128 Resp: 118361

Ion Ratio Lower Upper

128 100

127 12.0 10.5 15.7

129 9.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

