

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN031020\  
 Data File : VN060427.D  
 Acq On : 10 Mar 2020 19:10  
 Operator : JC/MD  
 Sample : L1852-04  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-1-S

Quant Time: Mar 11 06:43:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 200992   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 331021   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 315214   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 148067   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 131363   | 50.94 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 98524    | 64.12 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 50) Toluene-d8              | 10.08 | 98   | 411418   | 52.91 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 155431   | 52.73 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |

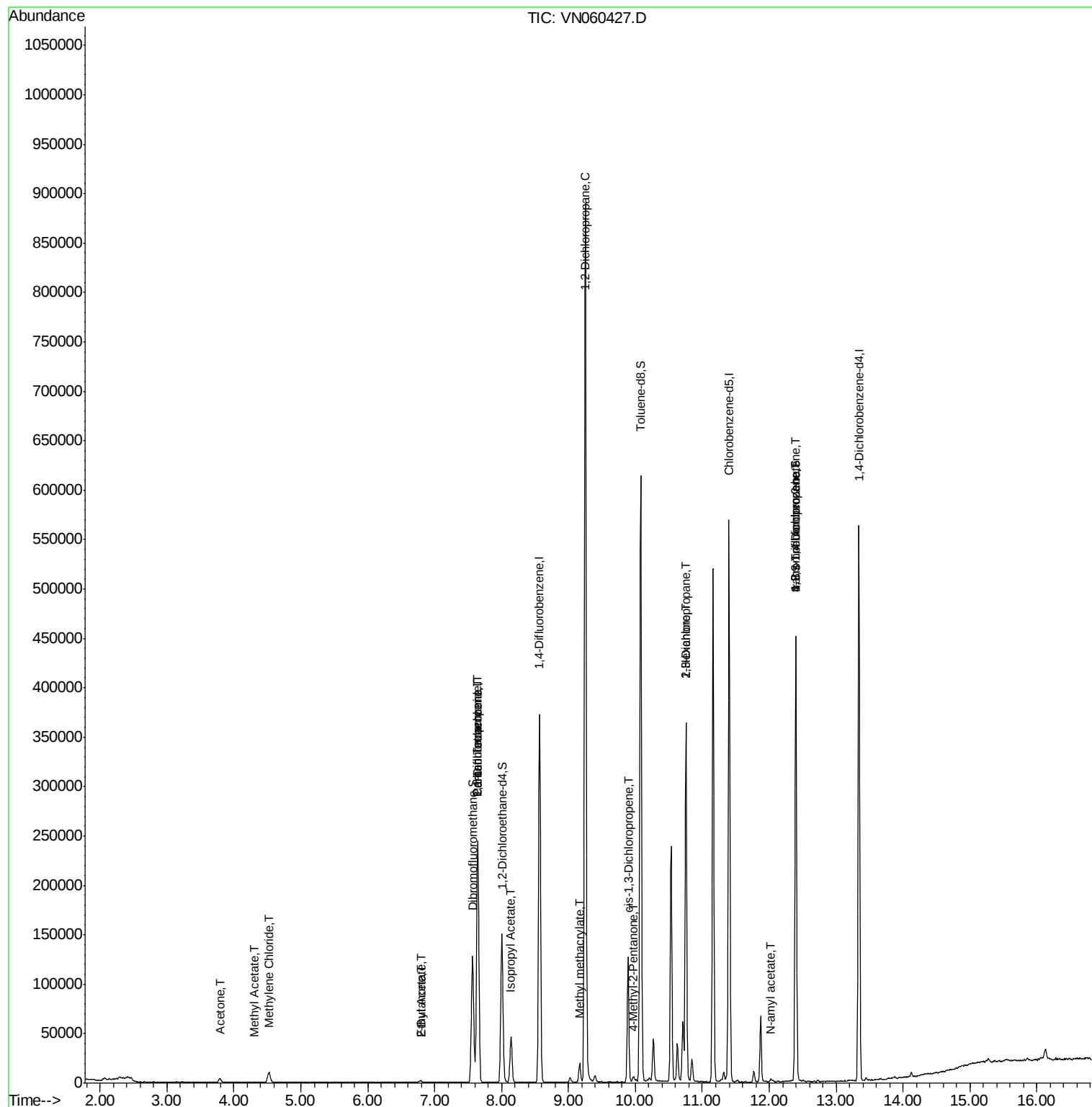
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 6895     | 8.280     | ug/l   | 99     |
| 18) Methyl Acetate             | 4.30  | 43   | 1601     | 0.576     | ug/l # | 52     |
| 20) Methylene Chloride         | 4.52  | 84   | 7707     | 3.370     | ug/l   | 93     |
| 25) 2-Butanone                 | 6.81  | 43   | 868      | 0.645     | ug/l # | 49     |
| 31) Cyclohexane                | 7.64  | 56   | 4359     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 16033    | 5.082     | ug/l # | 50     |
| 37) Ethyl Acetate              | 6.81  | 43   | 868      | 0.291     | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 19996    | 6.510     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 53820    | 10.291    | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 862      | 0.359     | ug/l # | 44     |
| 48) Methyl methacrylate        | 9.16  | 41   | 2649     | 1.111     | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 4599     | 1.551     | ug/l # | 80     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 22695    | 5.642     | ug/l # | 58     |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 3591     | 0.949     | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 53867    | 24.743    | ug/l # | 53     |
| 74) N-amyl acetate             | 12.02 | 43   | 3532     | 0.737     | ug/l # | 44     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 79860    | 24.583    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 79860    | 67.860    | ug/l # | 8      |
| 95) Naphthalene                | 15.13 | 128  | 331      | Below Cal | #      | 69     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN031020\  
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Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-1-S

Quant Time: Mar 11 06:43:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampled :

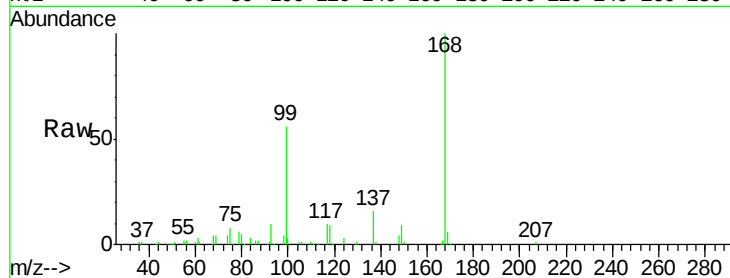
TP-1-S

Tgt Ion:168 Resp: 200992

Ion Ratio Lower Upper

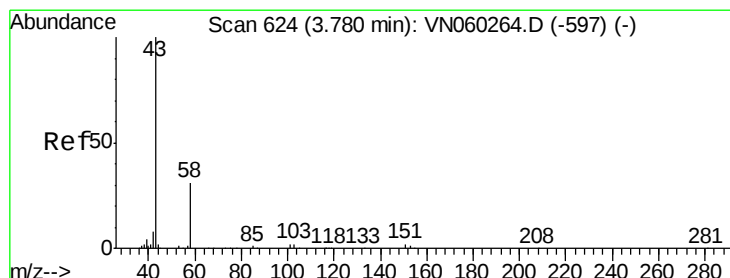
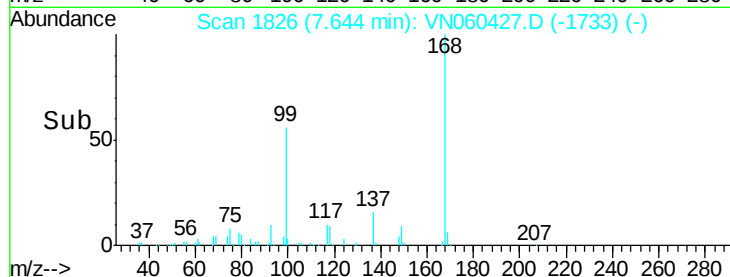
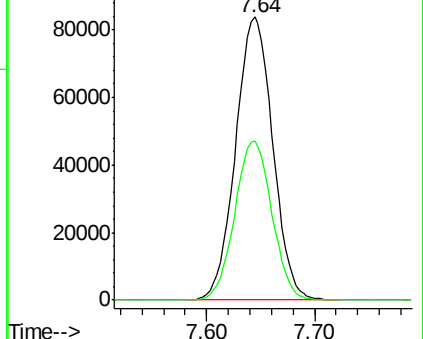
168 100

99 56.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 8.280 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060427.D

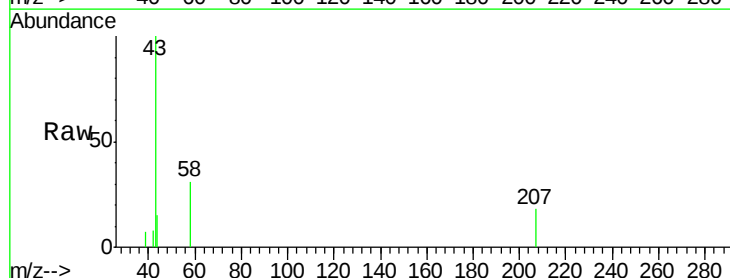
Acq: 10 Mar 2020 19:10

Tgt Ion: 43 Resp: 6895

Ion Ratio Lower Upper

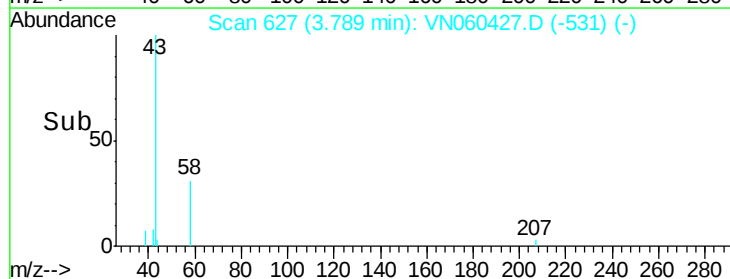
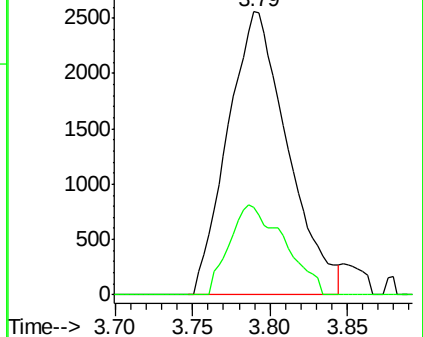
43 100

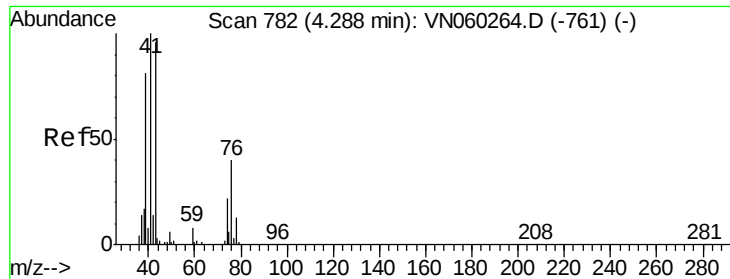
58 31.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

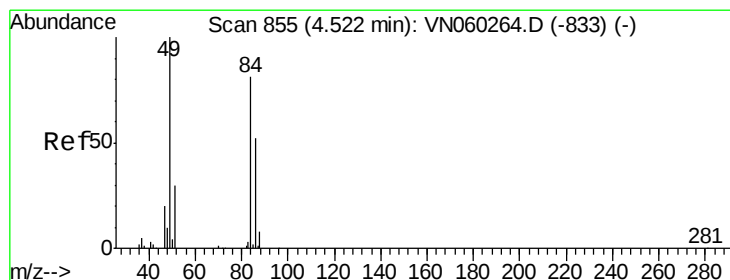
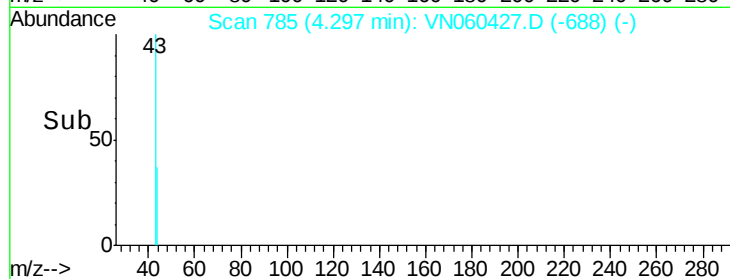
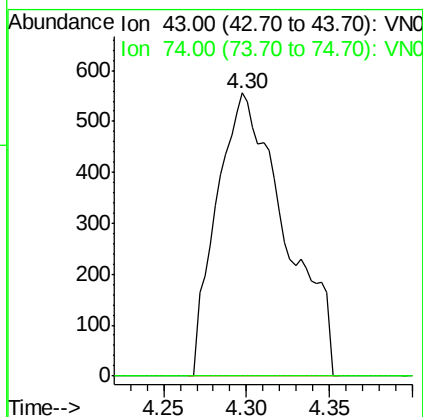
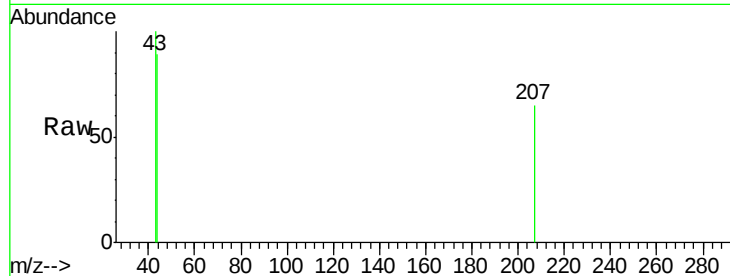




#18  
Methyl Acetate  
Concen: 0.576 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. 0.01 min  
Lab File: VN060427.D  
Acq: 10 Mar 2020 19:10

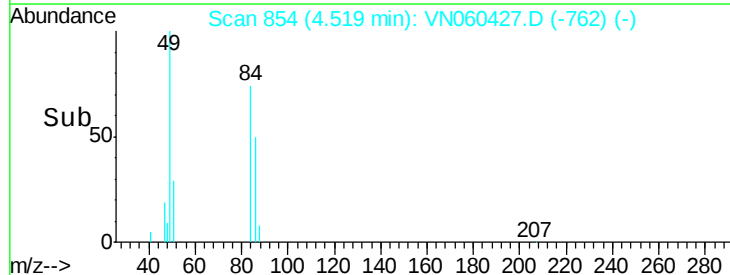
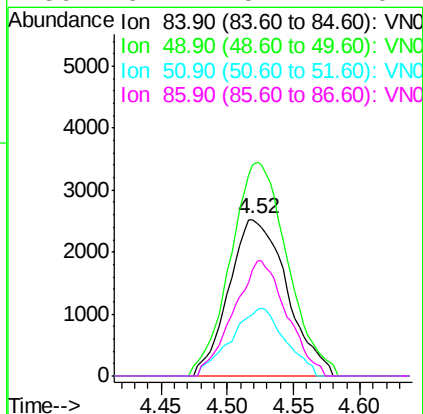
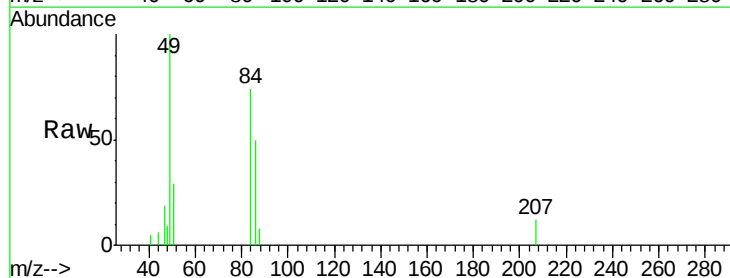
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-1-S

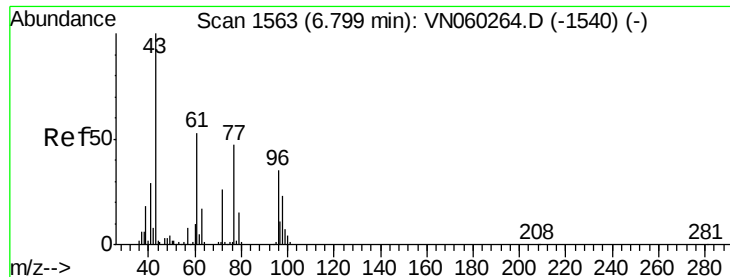
Tgt Ion: 43 Resp: 1601  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.8 28.2#



#20  
Methylene Chloride  
Concen: 3.370 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN060427.D  
Acq: 10 Mar 2020 19:10

Tgt Ion: 84 Resp: 7707  
Ion Ratio Lower Upper  
84 100  
49 134.4 99.3 148.9  
51 39.6 30.1 45.1  
86 67.4 51.1 76.7





#25

2-Butanone

Concen: 0.645 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampled :

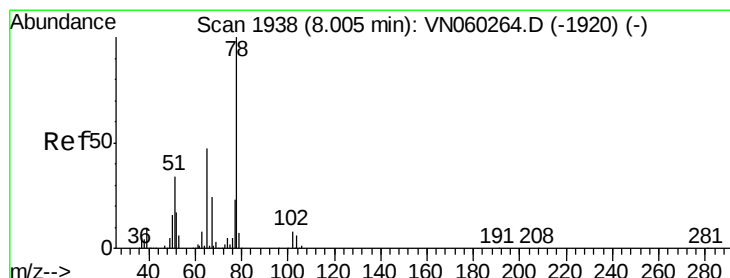
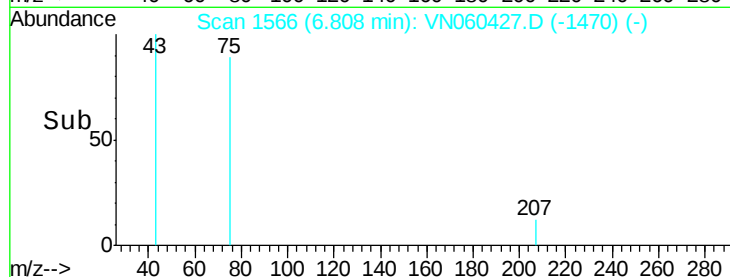
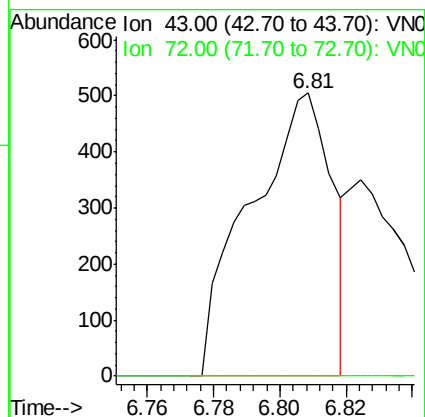
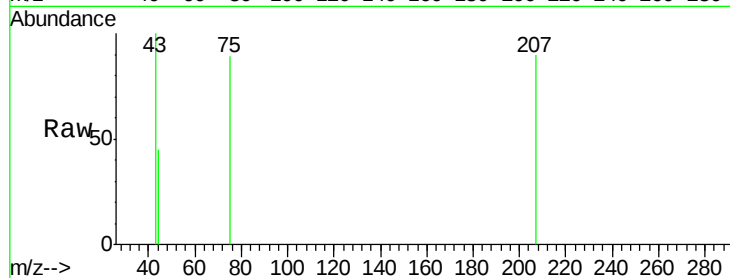
TP-1-S

Tgt Ion: 43 Resp: 868

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



#33

1,2-Dichloroethane-d4

Concen: 50.940 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060427.D

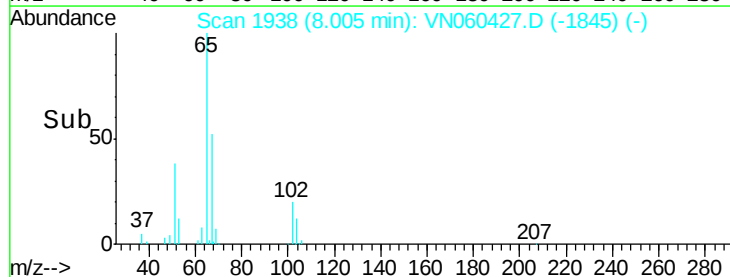
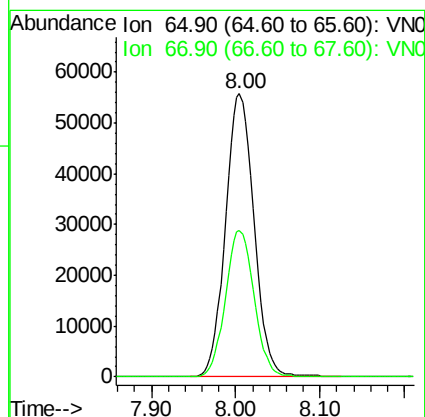
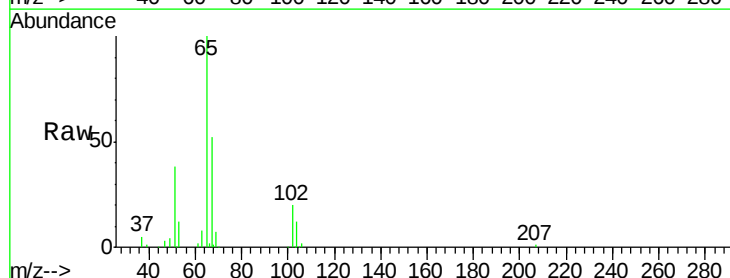
Acq: 10 Mar 2020 19:10

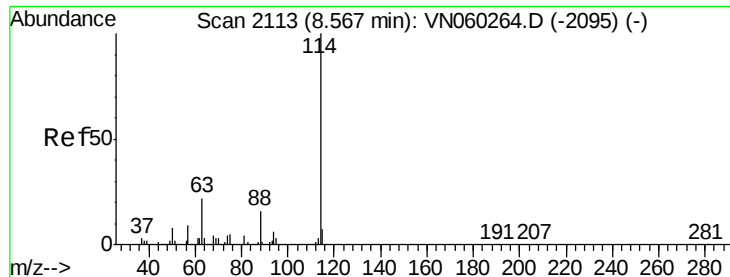
Tgt Ion: 65 Resp: 131363

Ion Ratio Lower Upper

65 100

67 51.6 0.0 103.8

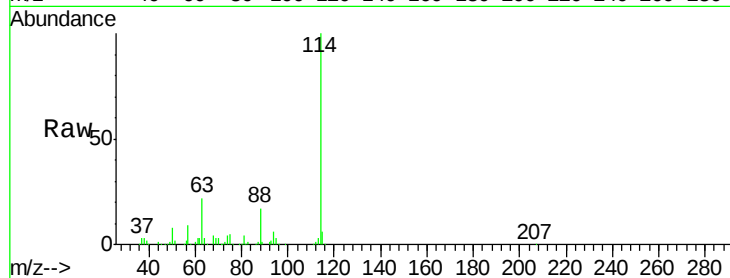




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN060427.D  
 Acq: 10 Mar 2020 19:10

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-1-S

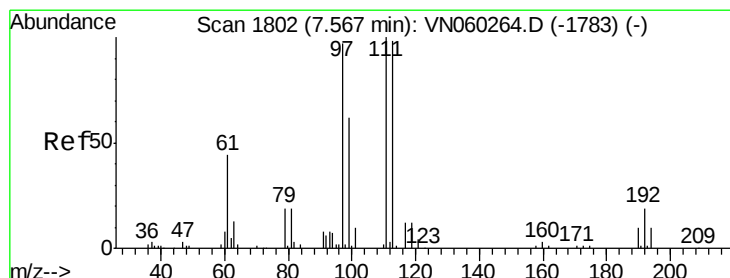
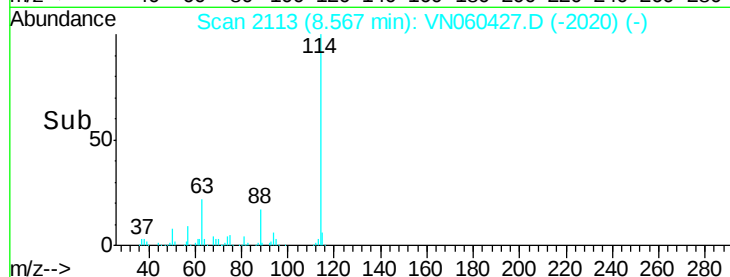
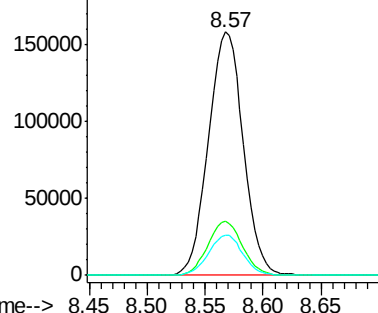
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.1  | 0.0   | 43.2  |
| 88      | 16.6  | 0.0   | 31.6  |



Abundance Ion 113.90 (113.60 to 114.60): V

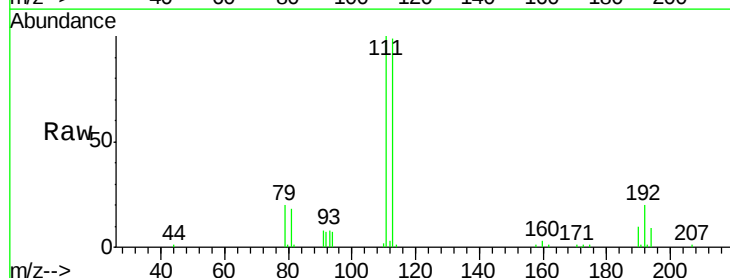
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35  
 Dibromofluoromethane  
 Concen: 64.123 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN060427.D  
 Acq: 10 Mar 2020 19:10

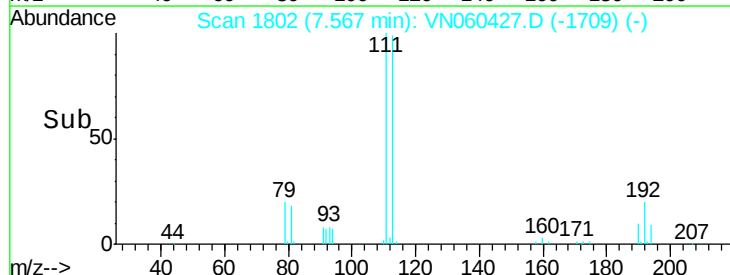
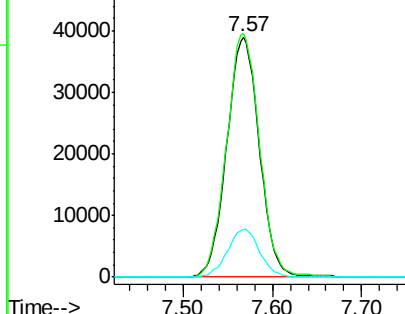
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.4  | 123.6 |
| 192     | 19.7  | 16.2  | 24.2  |

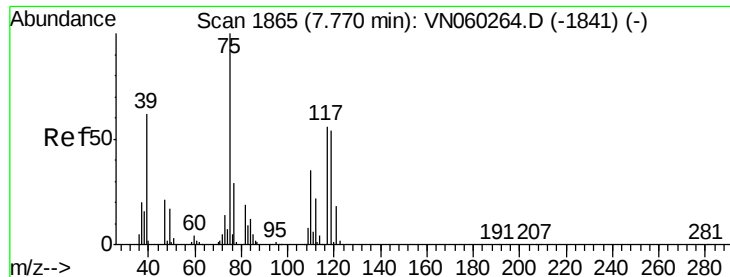


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.082 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampled :

TP-1-S

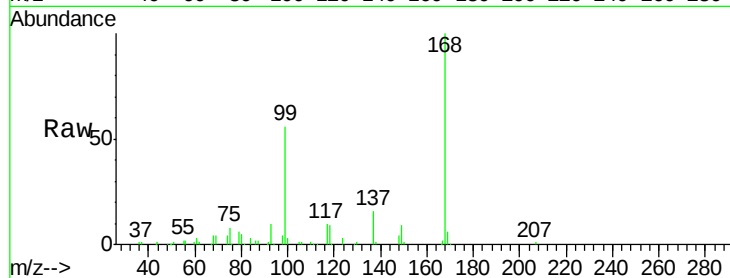
Tgt Ion: 75 Resp: 16033

Ion Ratio Lower Upper

75 100

110 8.4 17.3 52.0#

77 0.0 24.2 36.2#

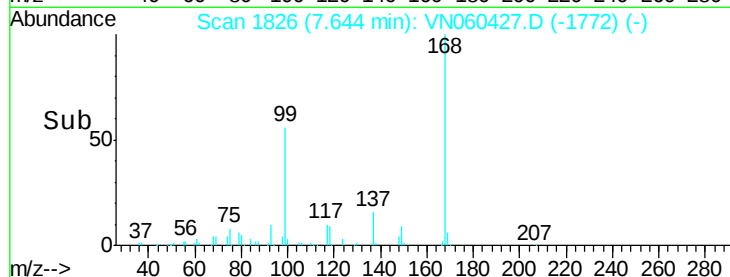


Abundance Ion 74.90 (74.60 to 75.60): VN060427.D (-1772) (-)

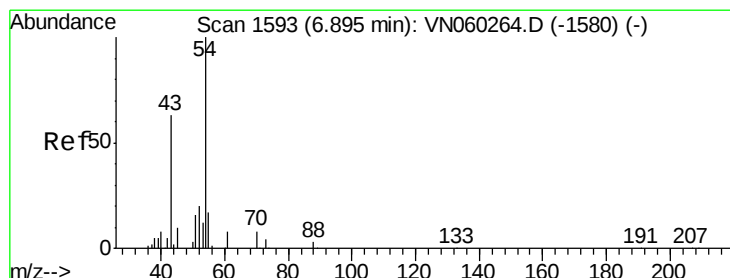
Ion 109.90 (109.60 to 110.60): VN060427.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060427.D (-1772) (-)

Time-->



Time-->



#37

Ethyl Acetate

Concen: 0.291 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

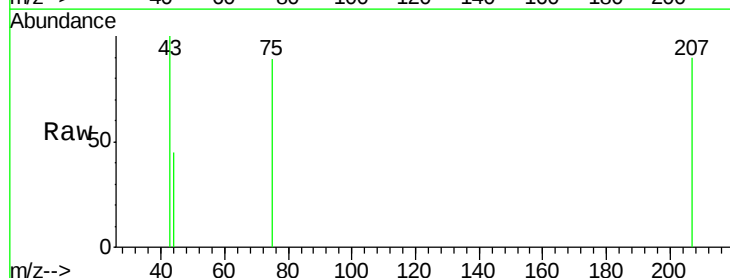
Tgt Ion: 43 Resp: 868

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

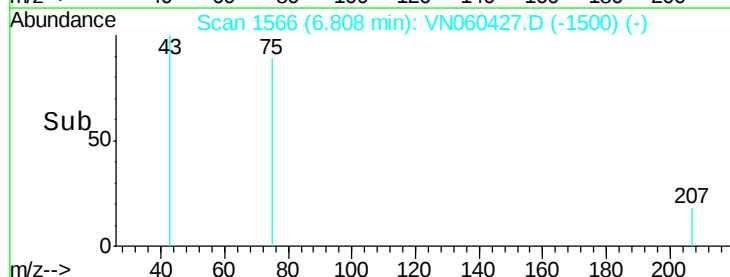


Abundance Ion 43.00 (42.70 to 43.70): VN060427.D (-1500) (-)

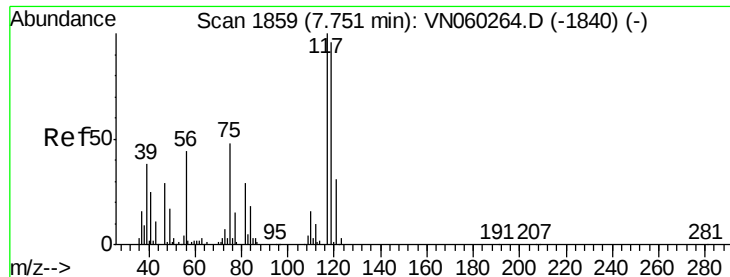
Ion 60.90 (60.60 to 61.60): VN060427.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060427.D (-1500) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.510 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampled :

TP-1-S

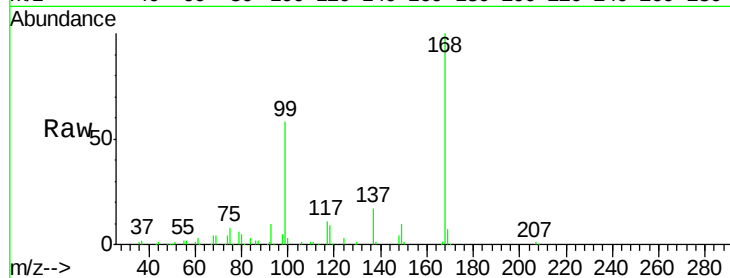
Tgt Ion:117 Resp: 19996

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

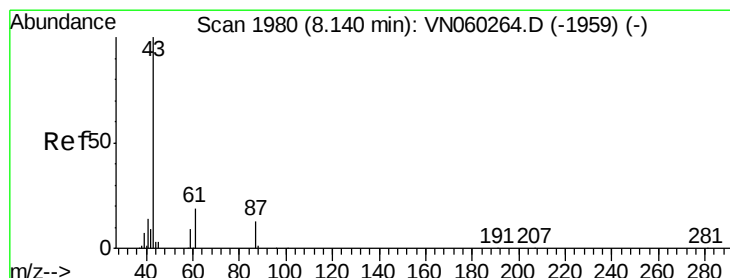
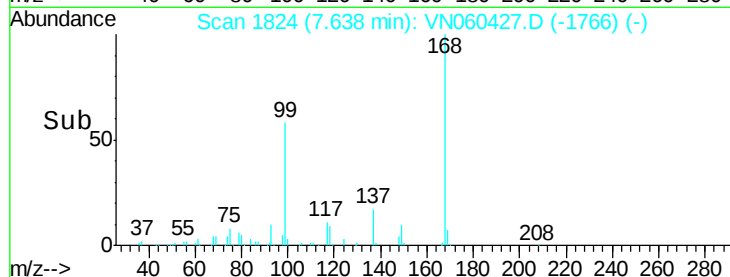
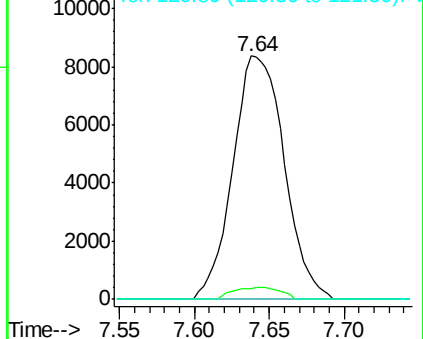
121 0.0 24.5 36.7#



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



#43

Isopropyl Acetate

Concen: 10.291 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

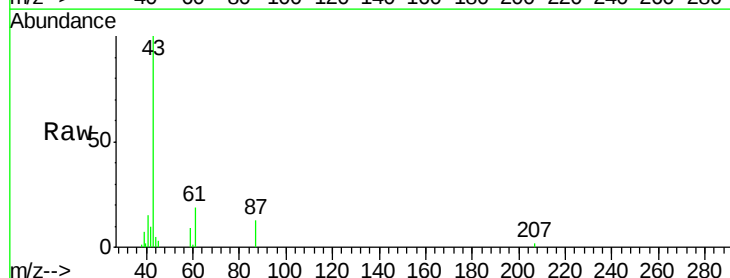
Tgt Ion: 43 Resp: 53820

Ion Ratio Lower Upper

43 100

61 20.0 20.9 31.3#

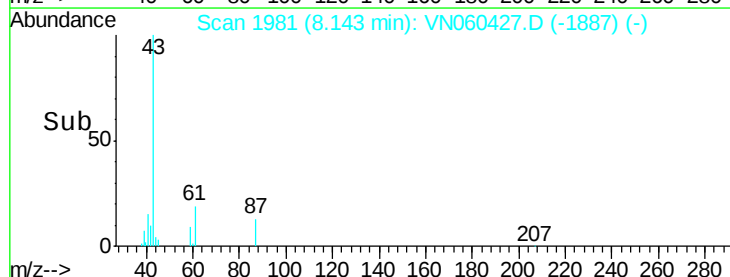
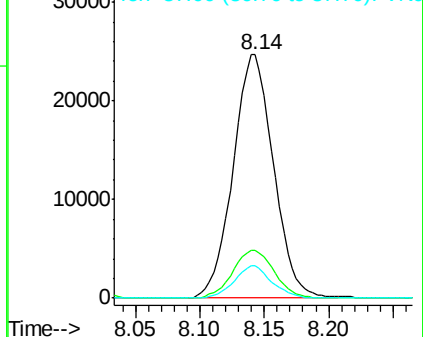
87 12.1 10.6 16.0

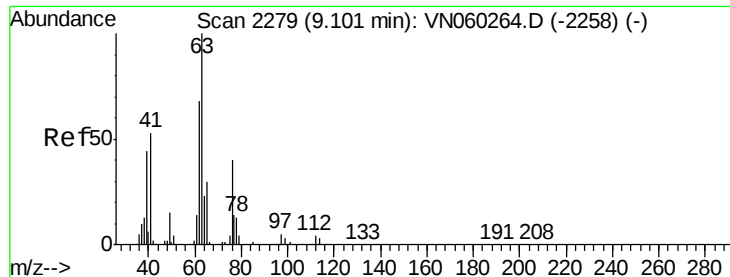


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.359 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampleId :

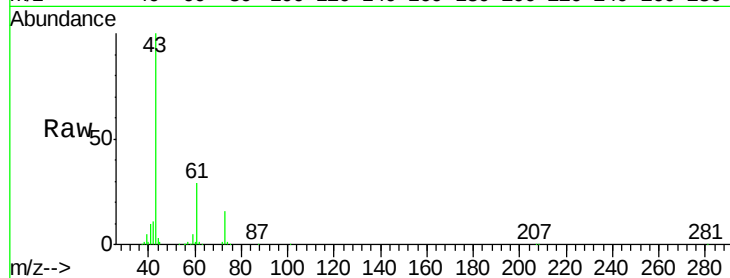
TP-1-S

Tgt Ion: 63 Resp: 862

Ion Ratio Lower Upper

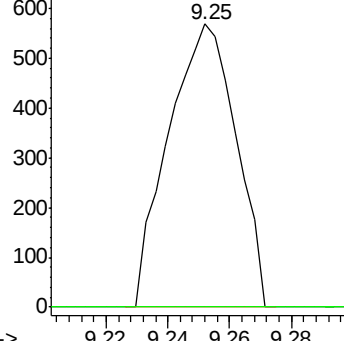
63 100

65 0.0 24.4 36.6#

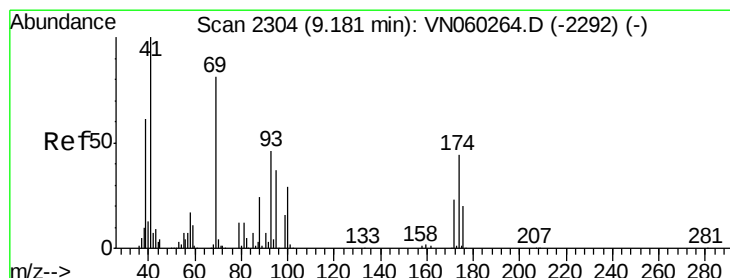
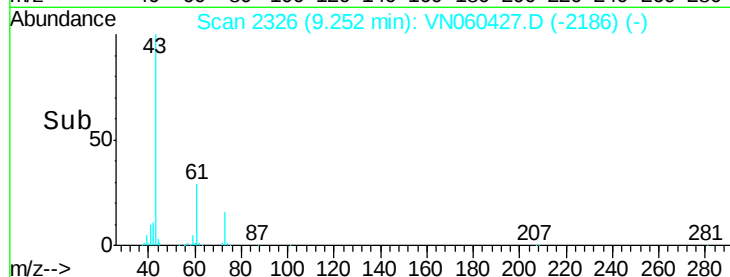


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



Time-->



#48

Methyl methacrylate

Concen: 1.111 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

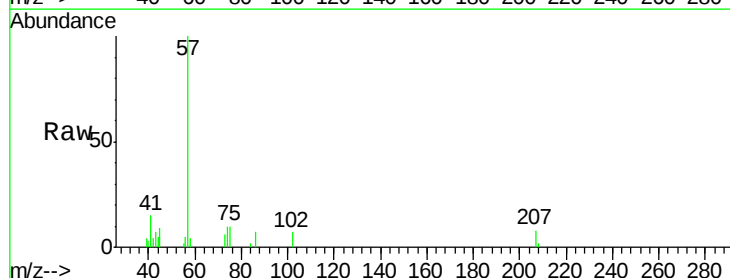
Tgt Ion: 41 Resp: 2649

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

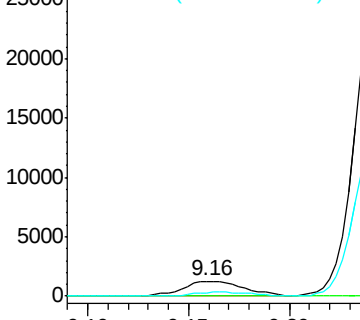
39 0.0 50.1 75.1#



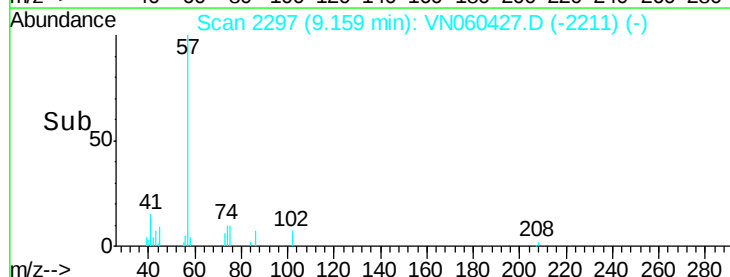
Abundance Ion 41.00 (40.70 to 41.70): VN0

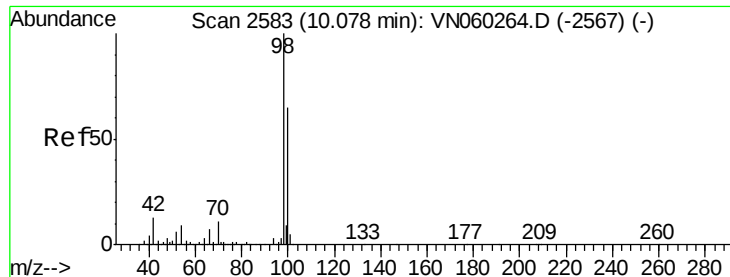
Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#50

Toluene-d8

Concen: 52.906 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampled :

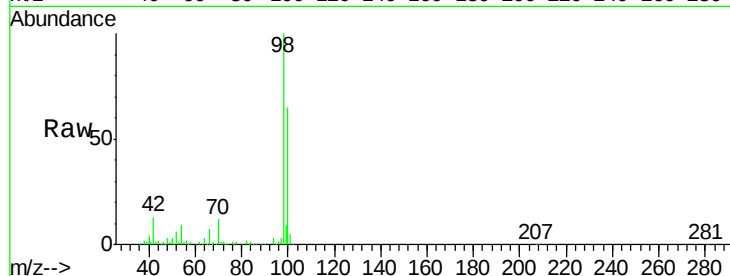
TP-1-S

Tgt Ion: 98 Resp: 411418

Ion Ratio Lower Upper

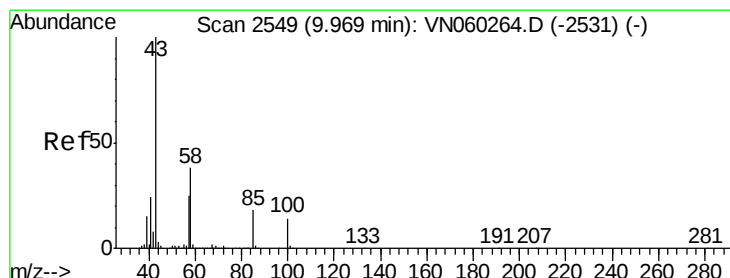
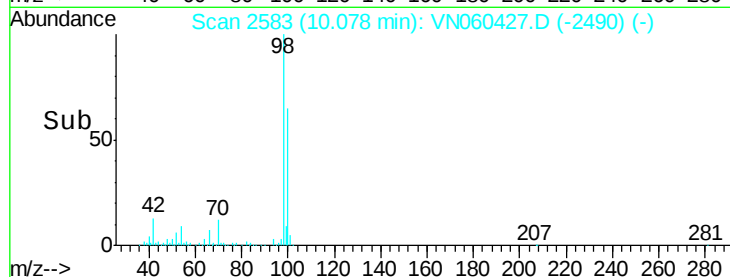
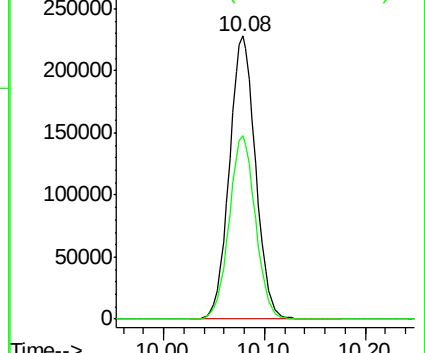
98 100

100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.551 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060427.D

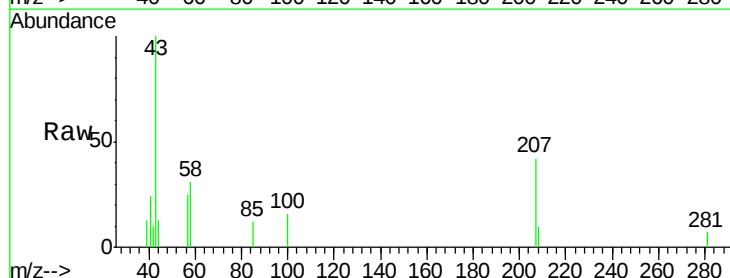
Acq: 10 Mar 2020 19:10

Tgt Ion: 43 Resp: 4599

Ion Ratio Lower Upper

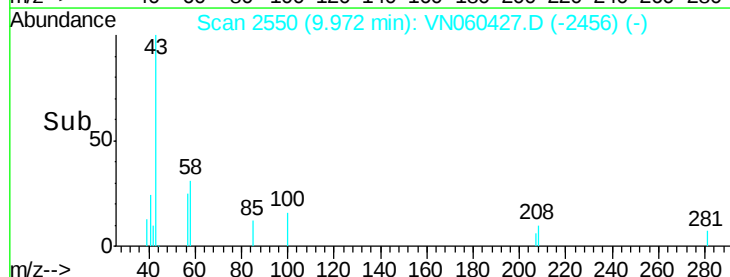
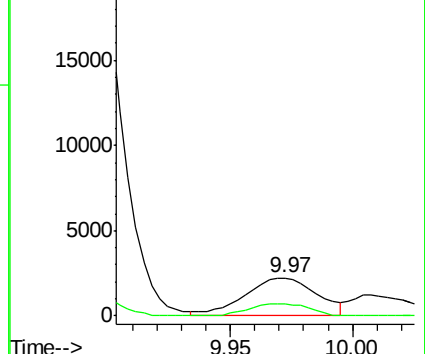
43 100

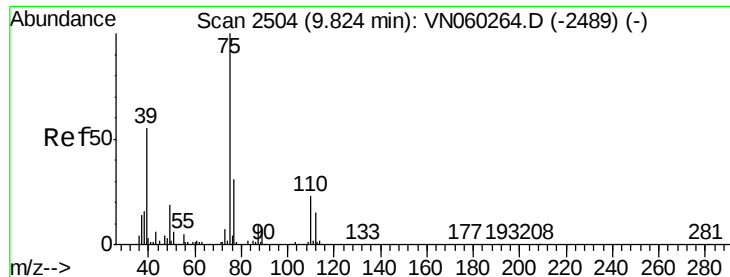
58 26.3 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 5.642 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampleId :

TP-1-S

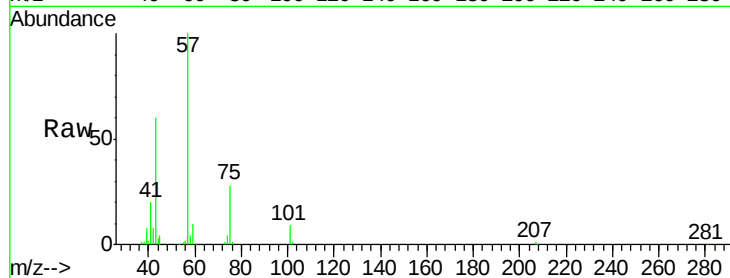
Tgt Ion: 75 Resp: 22695

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

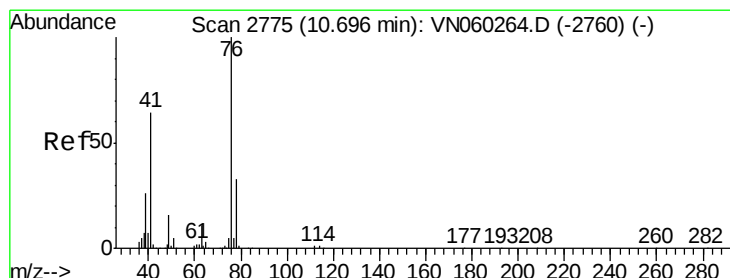
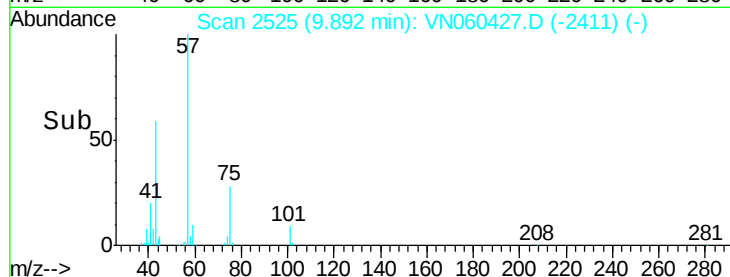
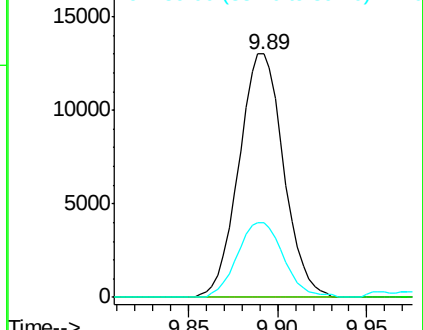
39 30.5 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060427.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060427.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060427.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 0.949 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060427.D

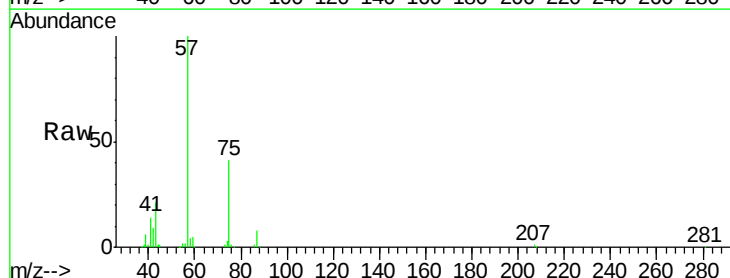
Acq: 10 Mar 2020 19:10

Tgt Ion: 76 Resp: 3591

Ion Ratio Lower Upper

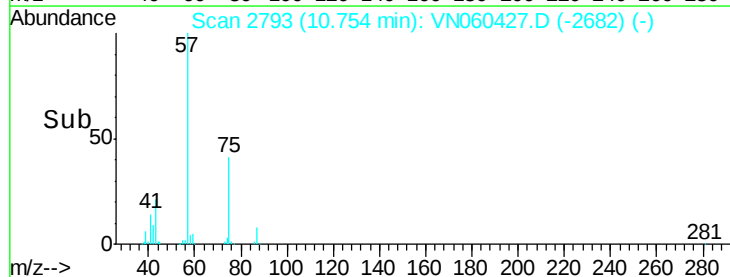
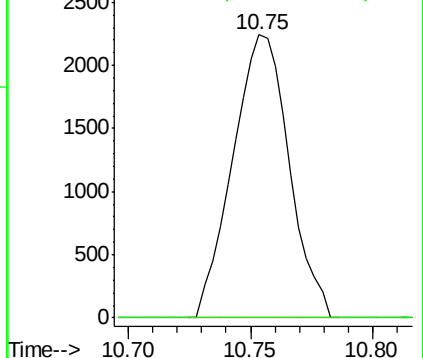
76 100

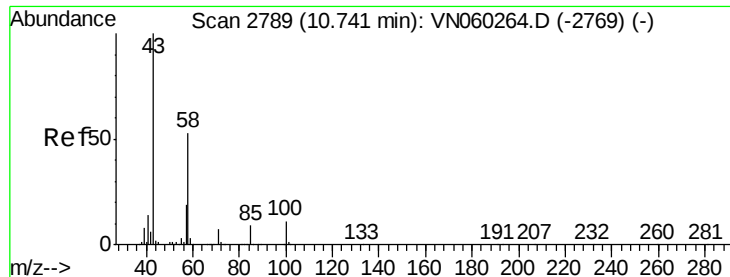
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN060427.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060427.D (-2682) (-)

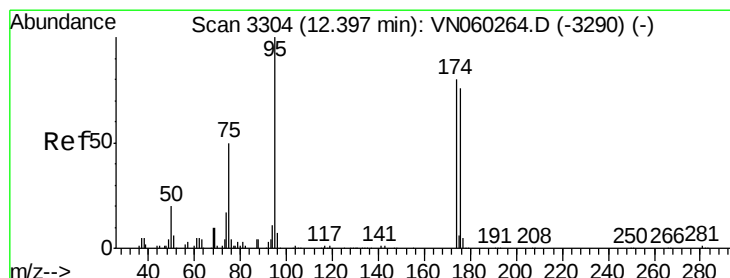
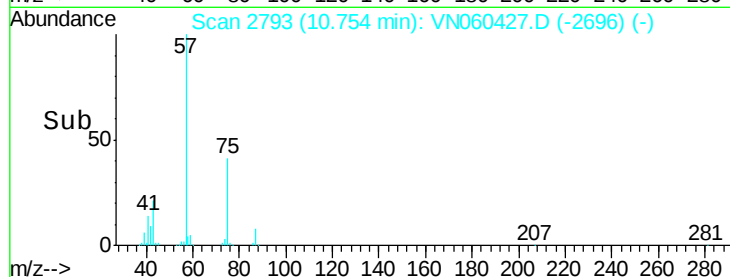
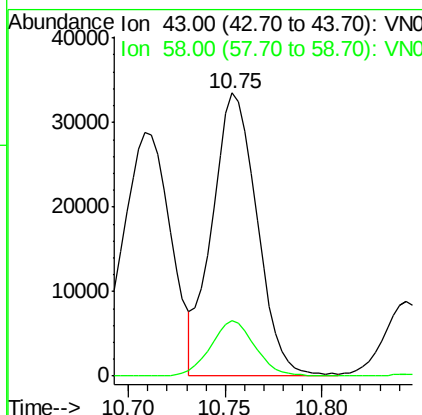
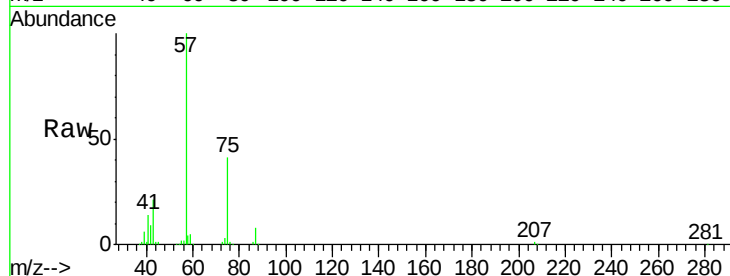




#59  
2-Hexanone  
Concen: 24.743 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN060427.D  
Acq: 10 Mar 2020 19:10

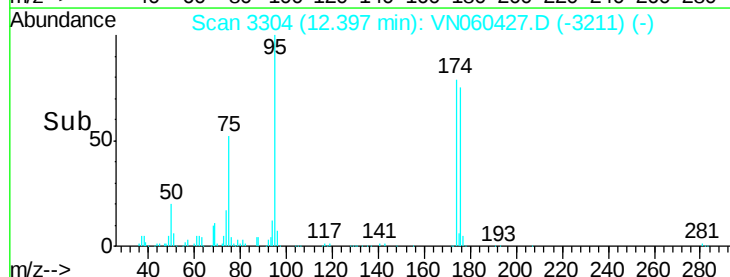
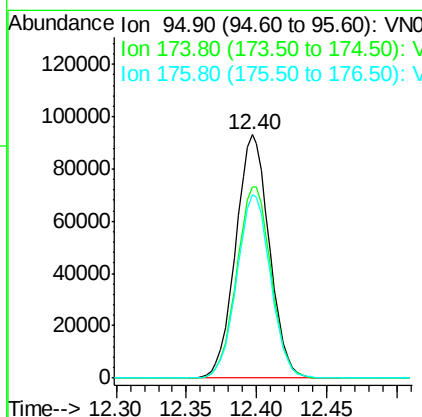
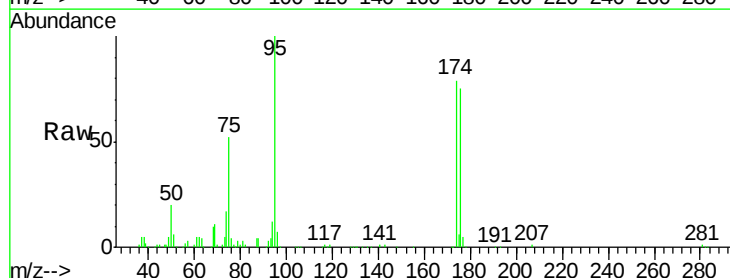
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-1-S

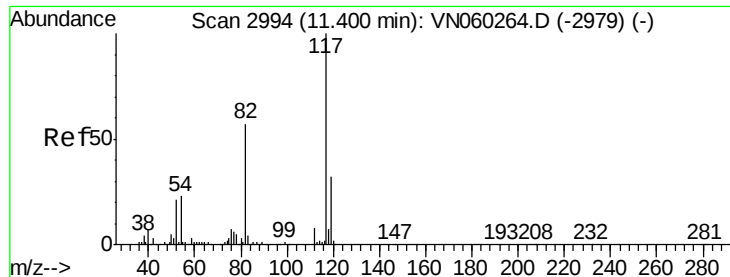
Tgt Ion: 43 Resp: 53867  
Ion Ratio Lower Upper  
43 100  
58 19.4 26.5 79.5#



#62  
4-Bromofluorobenzene  
Concen: 52.727 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN060427.D  
Acq: 10 Mar 2020 19:10

Tgt Ion: 95 Resp: 155431  
Ion Ratio Lower Upper  
95 100  
174 80.2 0.0 159.2  
176 75.8 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampleId :

TP-1-S

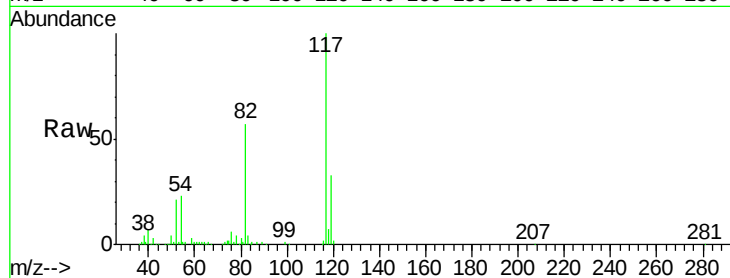
Tgt Ion:117 Resp: 315214

Ion Ratio Lower Upper

117 100

82 57.2 45.8 68.6

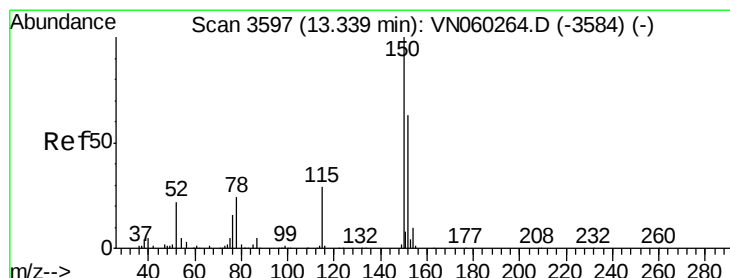
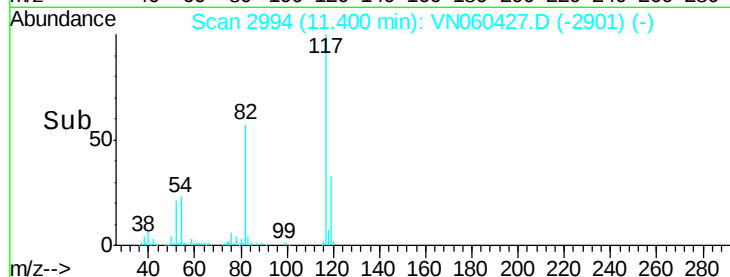
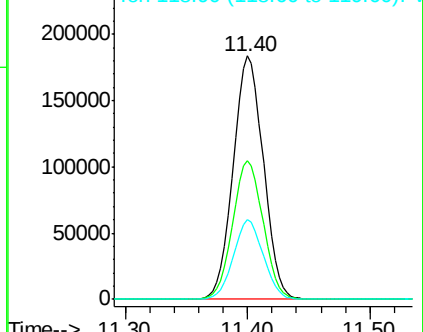
119 32.6 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

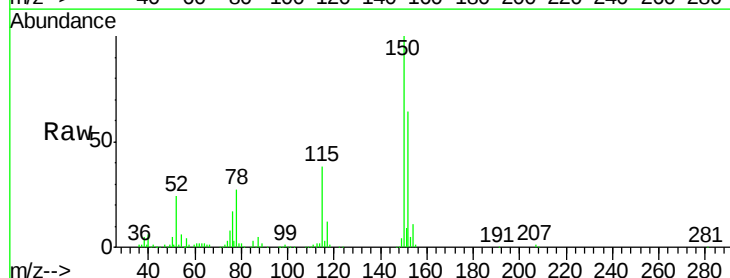
Tgt Ion:152 Resp: 148067

Ion Ratio Lower Upper

152 100

115 59.6 30.0 90.0

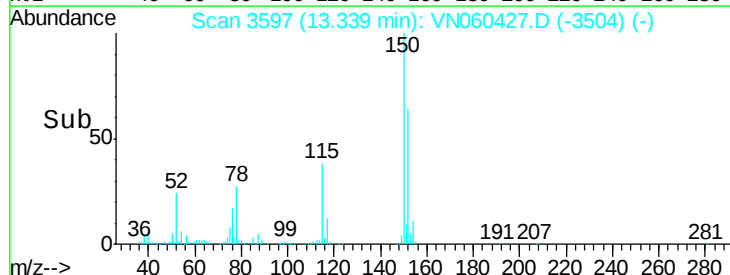
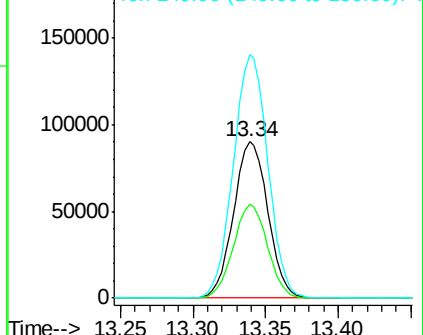
150 156.7 0.0 349.6

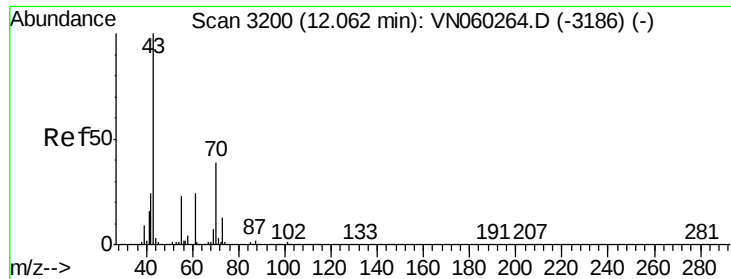


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.737 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampleId :

TP-1-S

Tgt Ion: 43 Resp: 3532

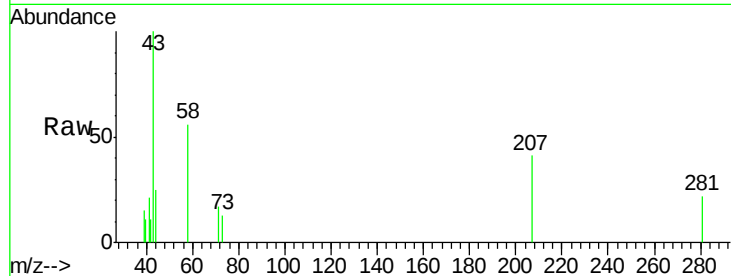
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

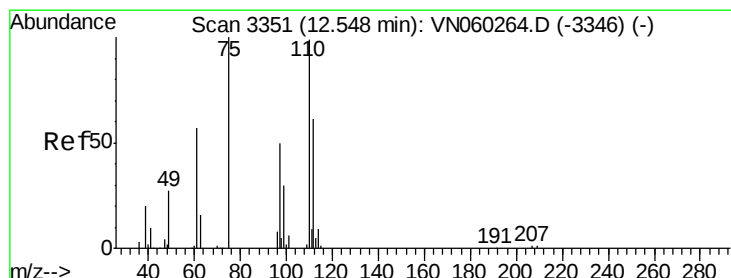
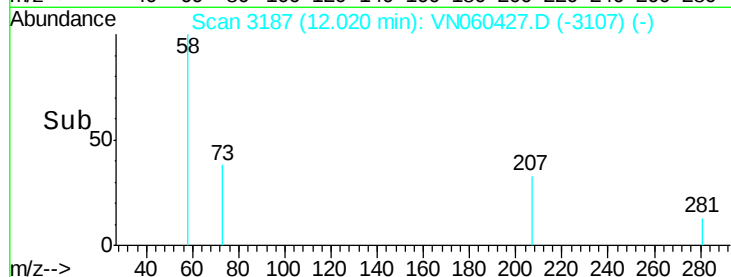
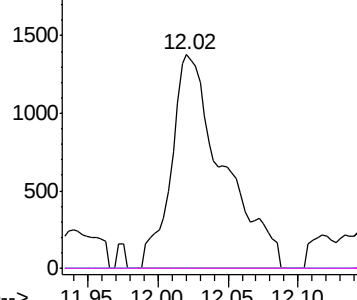


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.583 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060427.D

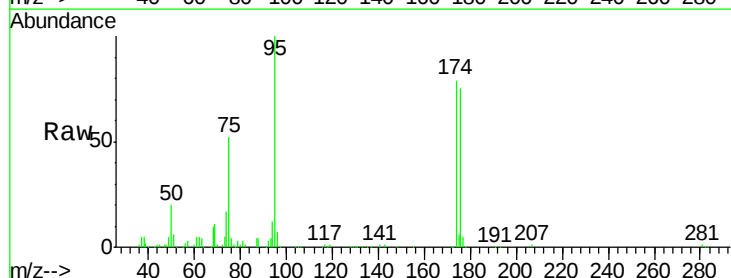
Acq: 10 Mar 2020 19:10

Tgt Ion: 75 Resp: 79860

Ion Ratio Lower Upper

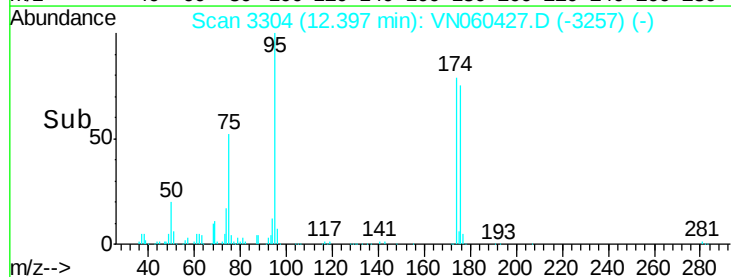
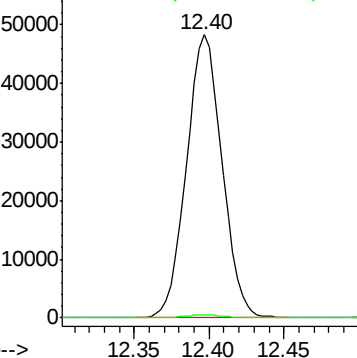
75 100

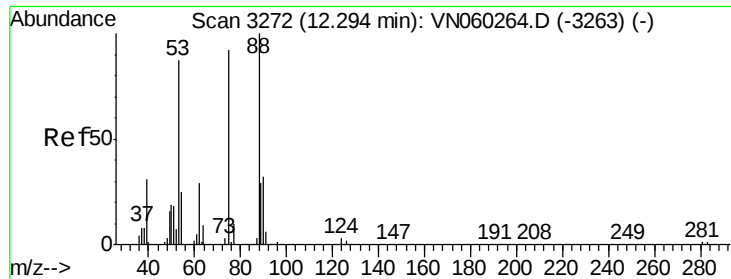
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.860 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

Instrument :

MSVOA\_N

ClientSampleId :

TP-1-S

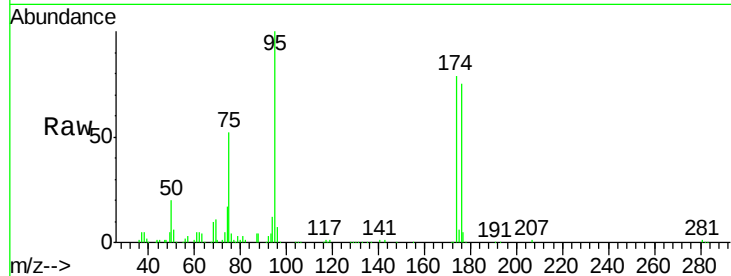
Tgt Ion: 75 Resp: 79860

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

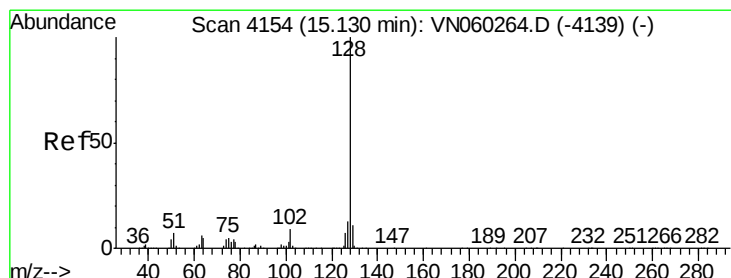
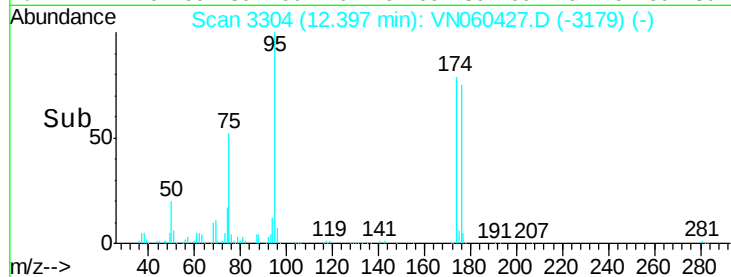
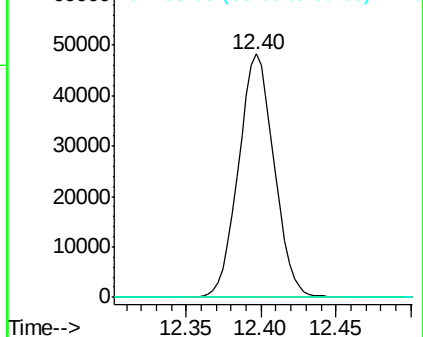
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060427.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060427.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060427.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060427.D

Acq: 10 Mar 2020 19:10

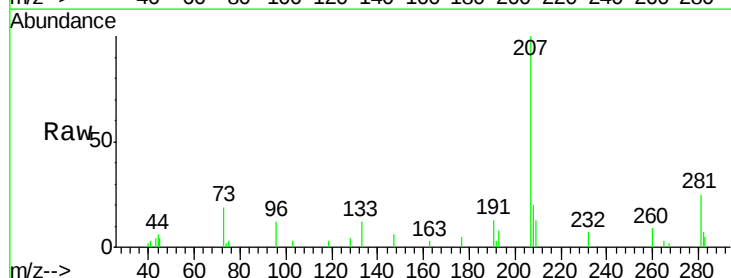
Tgt Ion: 128 Resp: 331

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN060427.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060427.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060427.D (-4060) (-)

