

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072720\  
 Data File : VN062622.D  
 Acq On : 28 Jul 2020 00:36  
 Operator : JC/MD  
 Sample : L3439-13  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20200443-3002C

Quant Time: Jul 28 06:28:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 18:48:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 161431   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 272643   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 282364   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 124373   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 133716   | 53.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.64% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 94254    | 52.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.26% |          |
| 50) Toluene-d8              | 10.06 | 98   | 366115   | 51.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.48% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 148197   | 56.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.44% |          |

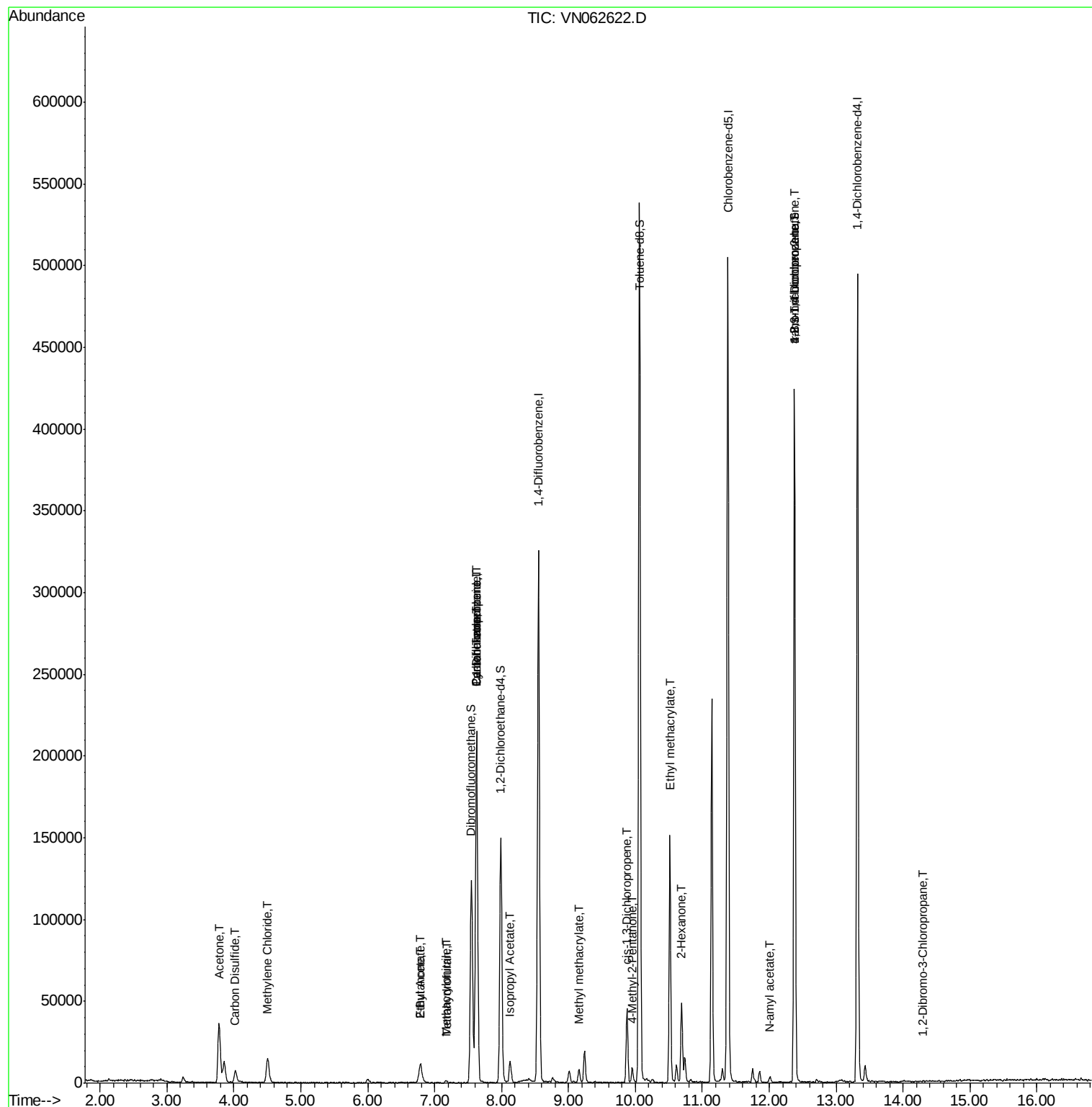
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.78  | 43   | 62672    | 66.412 | ug/l   | 93     |
| 17) Carbon Disulfide           | 4.01  | 76   | 2551     | 0.449  | ug/l # | 75     |
| 20) Methylene Chloride         | 4.51  | 84   | 11151    | 4.927  | ug/l   | 87     |
| 25) 2-Butanone                 | 6.80  | 43   | 16153    | 11.239 | ug/l   | 96     |
| 29) Tetrahydrofuran            | 7.19  | 42   | 570      | 0.586  | ug/l # | 38     |
| 31) Cyclohexane                | 7.63  | 56   | 3873     | 1.048  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 14678    | 5.051  | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.80  | 43   | 16153    | 5.156  | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 16752    | 5.997  | ug/l # | 18     |
| 41) Methacrylonitrile          | 7.18  | 41   | 535      | 0.398  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.13  | 43   | 15903    | 3.149  | ug/l # | 87     |
| 48) Methyl methacrylate        | 9.15  | 41   | 2283     | 0.951  | ug/l # | 29     |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 6840     | 2.264  | ug/l   | 92     |
| 54) cis-1,3-Dichloropropene    | 9.87  | 75   | 7745     | 2.096  | ug/l # | 67     |
| 56) Ethyl methacrylate         | 10.52 | 69   | 684      | 1.954  | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.69 | 43   | 40156    | 19.940 | ug/l # | 26     |
| 74) N-amyl acetate             | 12.01 | 43   | 3157     | 0.719  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 80127    | 25.311 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 80127    | 70.459 | ug/l # | 12     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.29 | 75   | 143      | 0.230  | ug/l # | 9      |

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

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Sample : L3439-13  
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QLast Update : Tue Jul 21 18:48:59 2020  
Response via : Initial Calibration

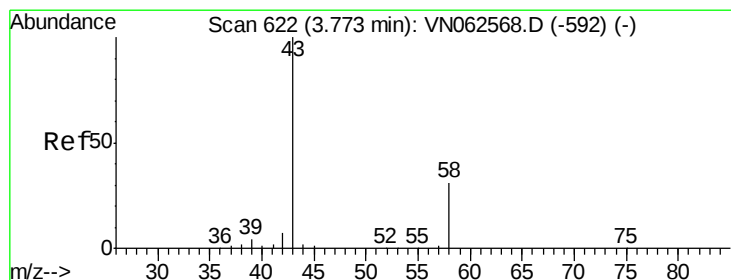
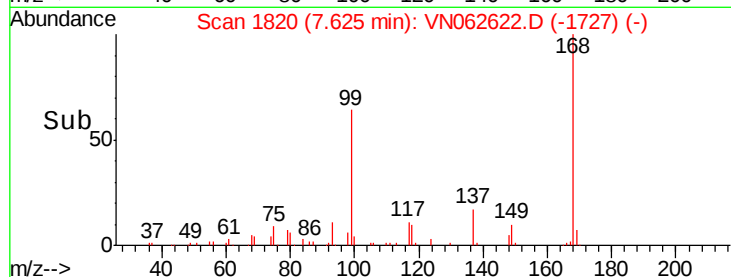
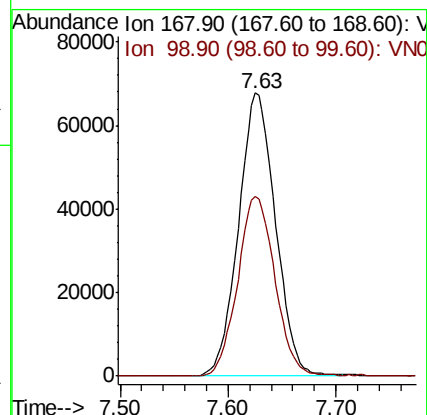
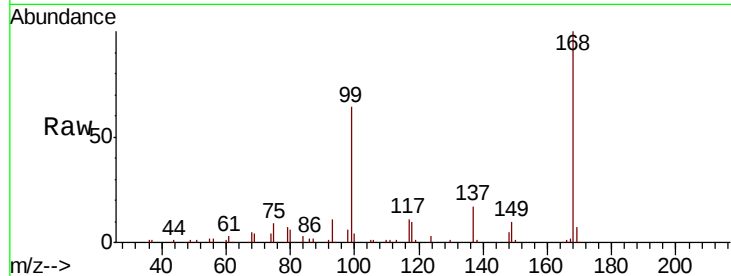




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. -0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

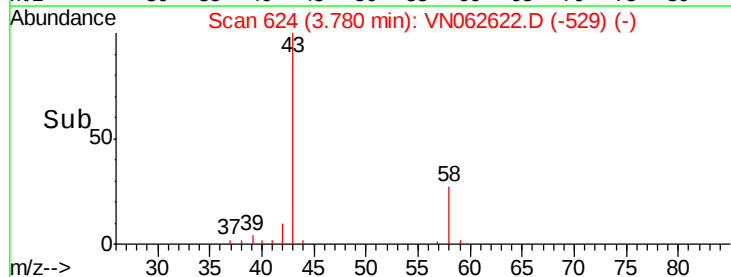
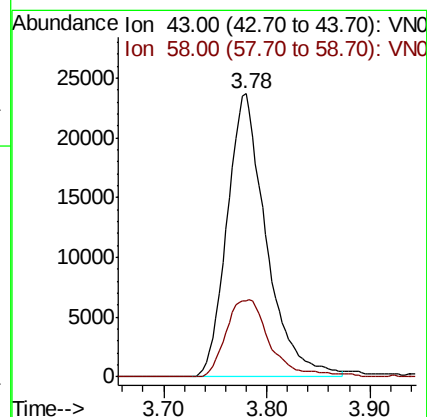
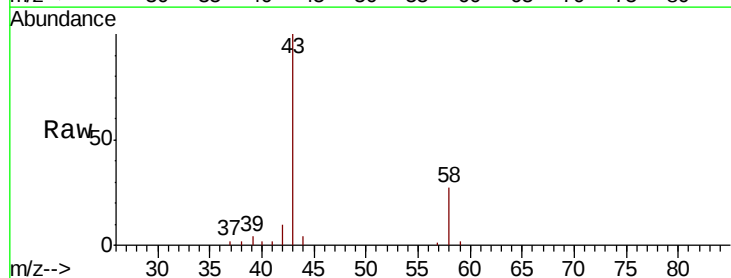
Instrument :  
MSVOA\_N  
ClientSampleId :  
20200443-3002C

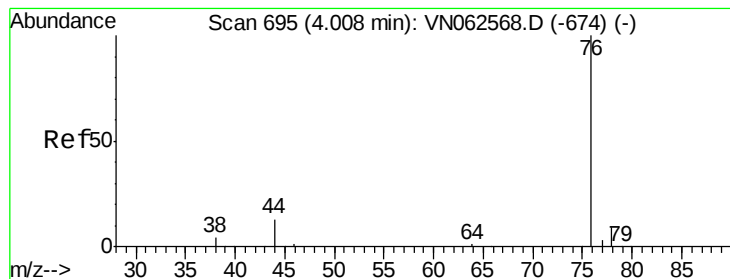
Tot Ion:168 Resp: 161431  
Ion Ratio Lower Upper  
168 100  
99 63.7 48.4 72.6



#16  
Acetone  
Concen: 66.412 ug/l  
RT: 3.78 min Scan# 624  
Delta R.T. 0.01 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Tgt Ion: 43 Resp: 62672  
Ion Ratio Lower Upper  
43 100  
58 27.0 24.6 37.0





#17

Carbon Disulfide

Concen: 0.449 ug/l

RT: 4.01 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

Instrument :

MSVOA\_N

ClientSampleId :

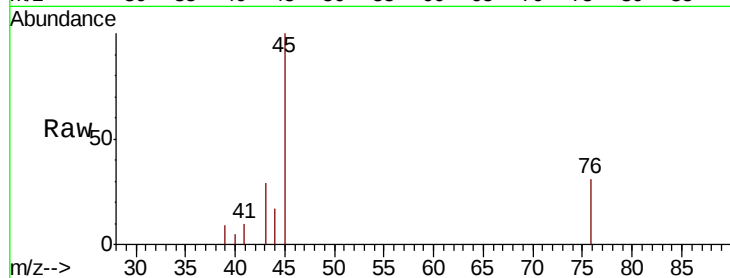
20200443-3002C

Tot Ion: 76 Resp: 2551

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.01

1000

800

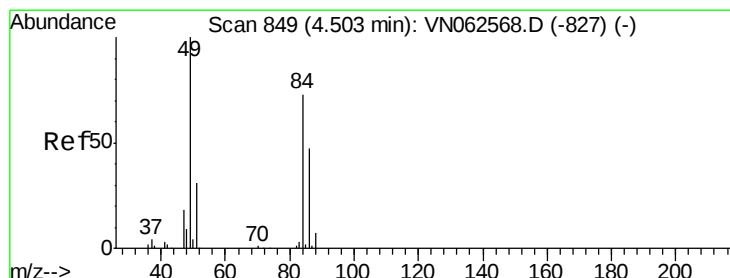
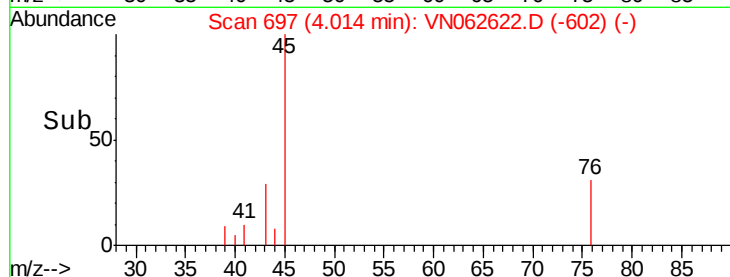
600

400

200

0

Time--> 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 4.927 ug/l

RT: 4.51 min Scan# 851

Delta R.T. 0.01 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

Tgt Ion: 84 Resp: 11151

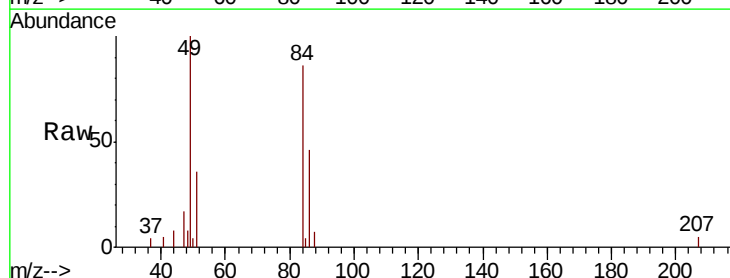
Ion Ratio Lower Upper

84 100

49 116.7 109.4 164.0

51 42.4 33.6 50.4

86 54.2 51.4 77.2



Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

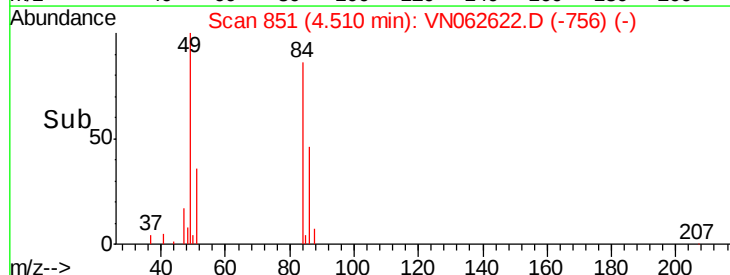
6000

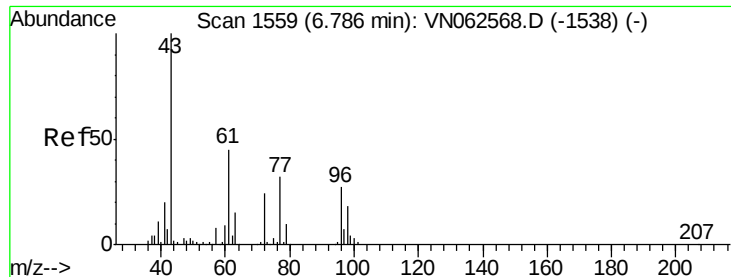
4000

2000

0

Time--> 4.40 4.45 4.50 4.55 4.60





#25

2-Butanone

Concen: 11.239 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

Instrument :

MSVOA\_N

ClientSampleId :

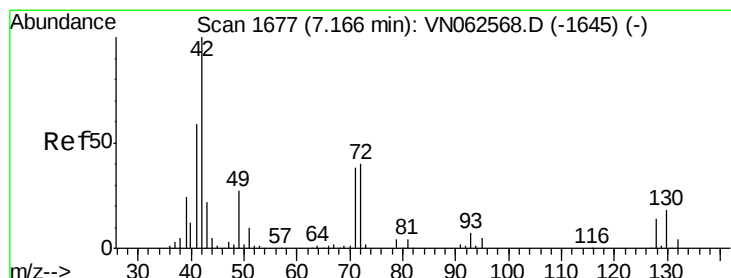
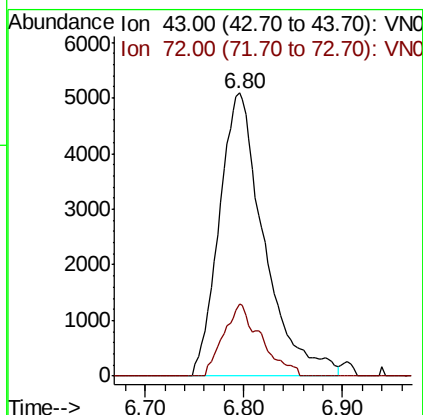
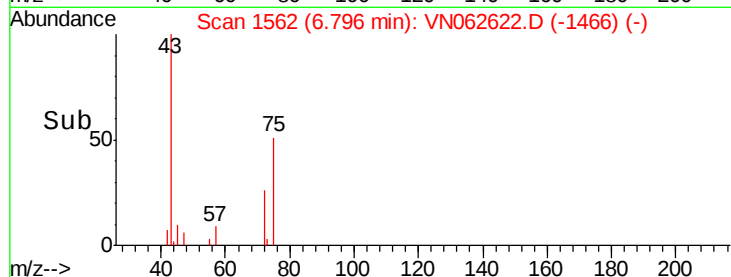
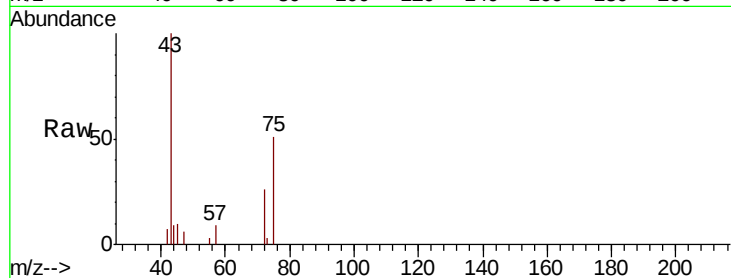
20200443-3002C

Tot Ion: 43 Resp: 16153

Ion Ratio Lower Upper

43 100

72 25.6 19.0 28.6



#29

Tetrahydrofuran

Concen: 0.586 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.02 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

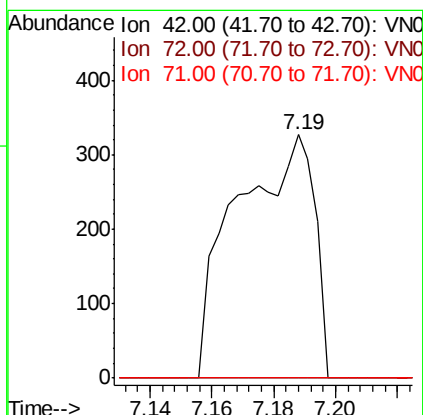
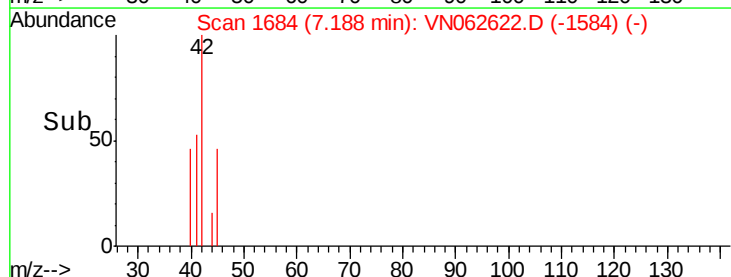
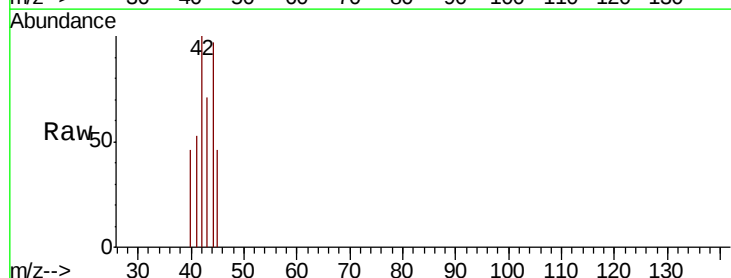
Tgt Ion: 42 Resp: 570

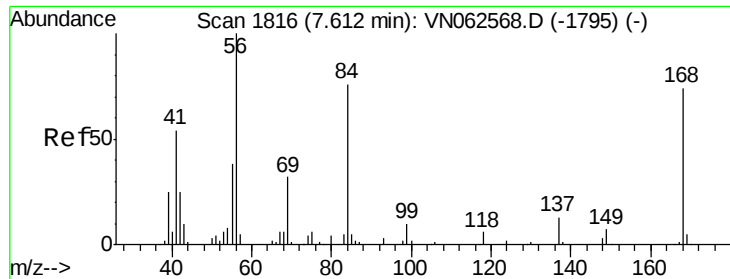
Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 29.1 43.7#

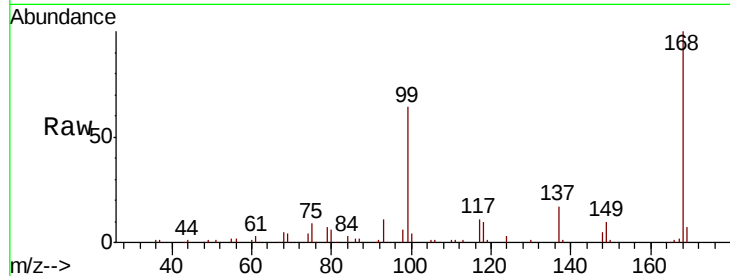




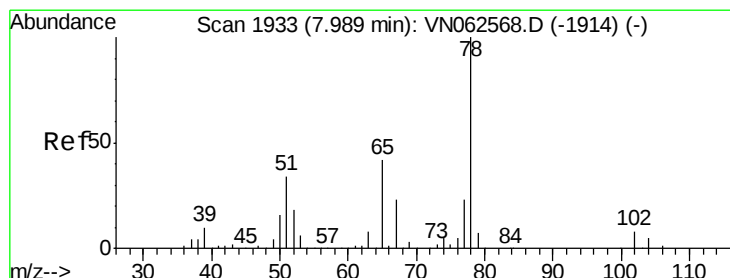
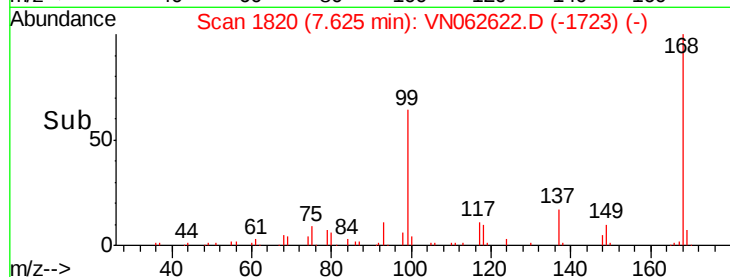
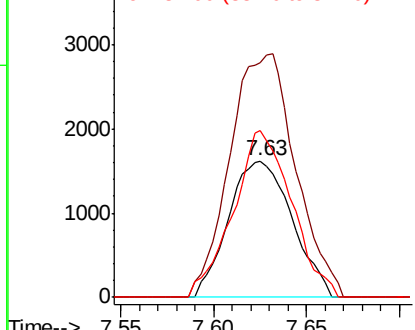
#31  
Cyclohexane  
Concen: 1.048 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
20200443-3002C

Tot Ion: 56 Resp: 3873  
Ion Ratio Lower Upper  
56 100  
69 172.0 25.3 37.9#  
84 122.6 61.0 91.4#

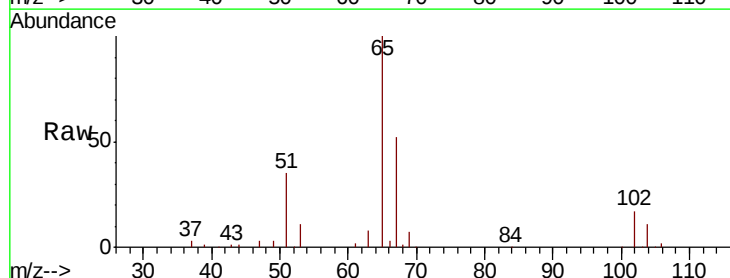


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

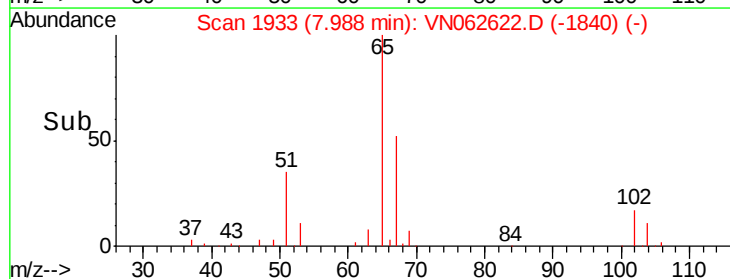
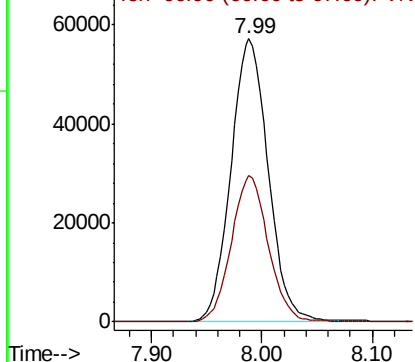


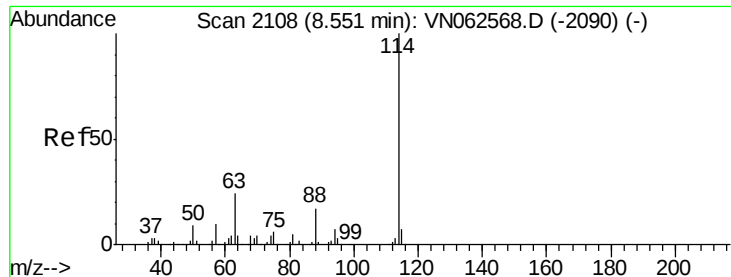
#33  
1,2-Dichloroethane-d4  
Concen: 53.321 ug/l  
RT: 7.99 min Scan# 1933  
Delta R.T. -0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Tgt Ion: 65 Resp: 133716  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 106.0



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

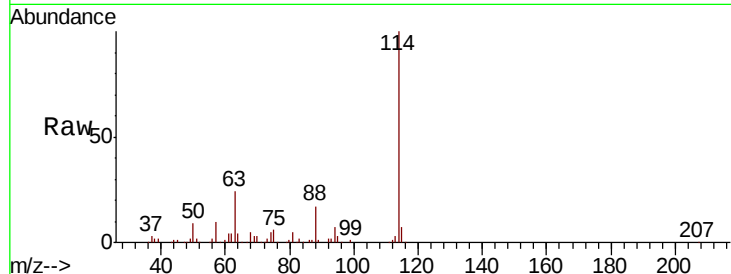




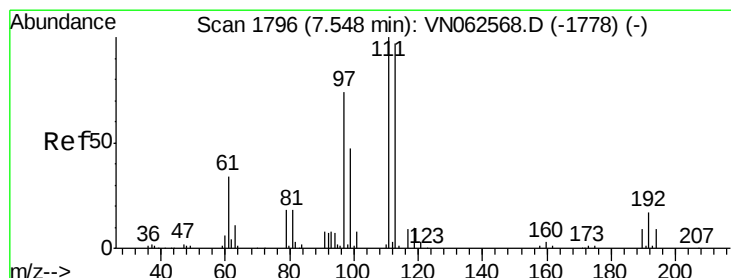
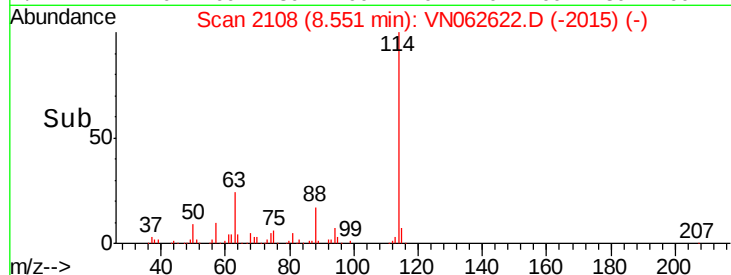
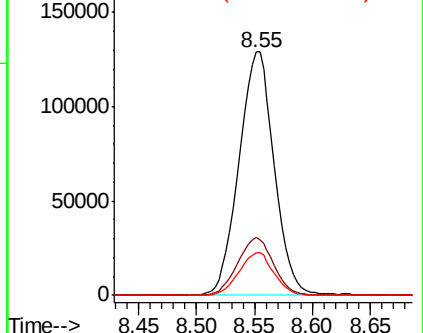
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062622.D  
 Acq: 28 Jul 2020 00:36

Instrument :  
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 ClientSampleId :  
 20200443-3002C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.6  | 0.0   | 48.4  |
| 88      | 17.4  | 0.0   | 33.8  |

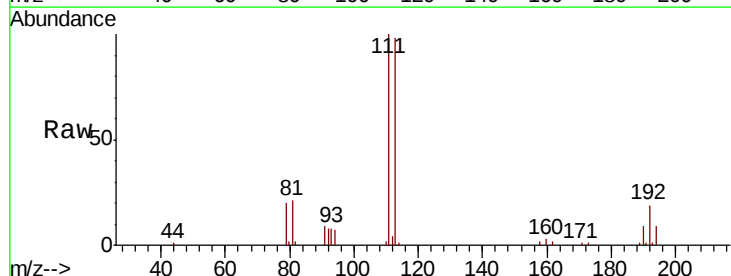


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

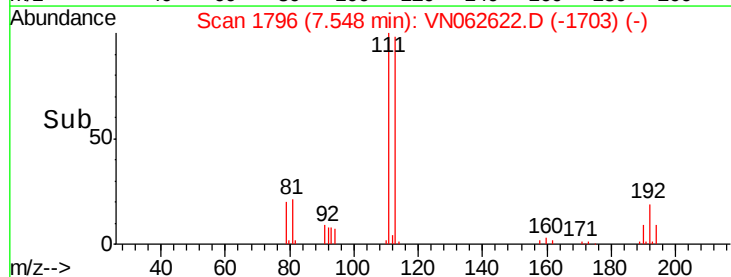
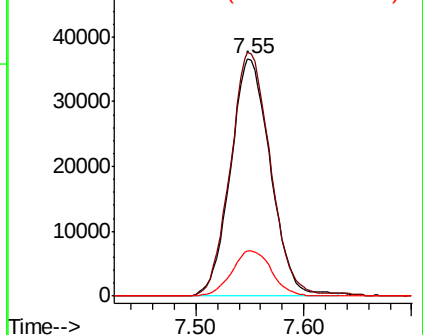


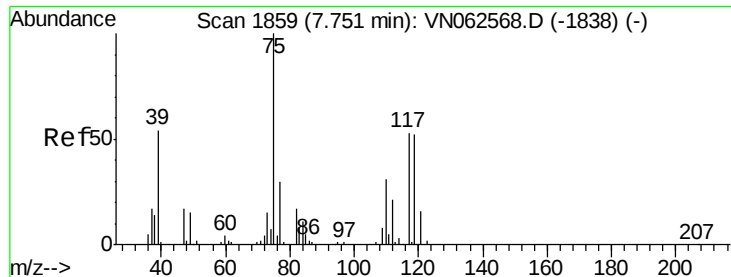
#35  
 Dibromofluoromethane  
 Concen: 52.630 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN062622.D  
 Acq: 28 Jul 2020 00:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.7  | 124.1 |
| 192     | 18.9  | 14.8  | 22.2  |



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

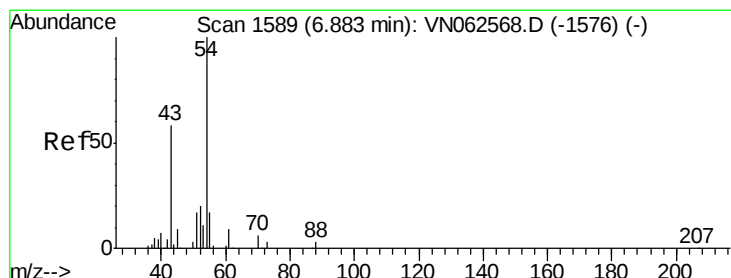
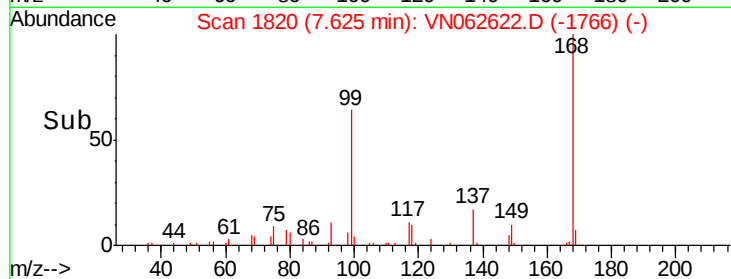
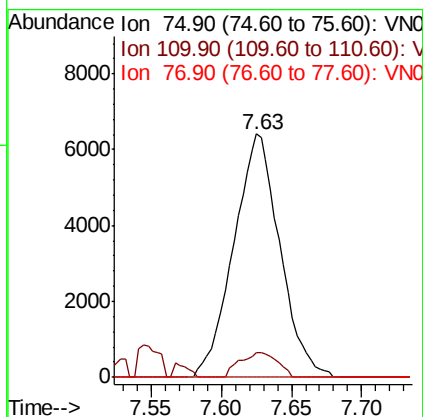
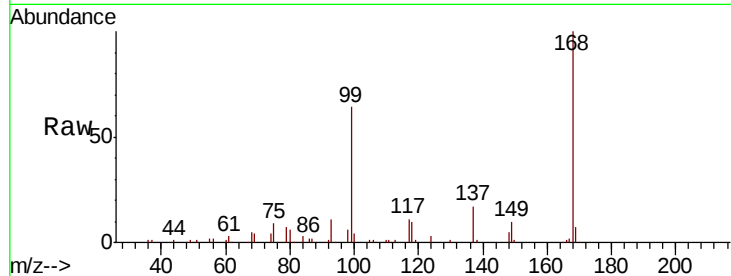




#36  
 1,1-Dichloropropene  
 Concen: 5.051 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN062622.D  
 Acq: 28 Jul 2020 00:36

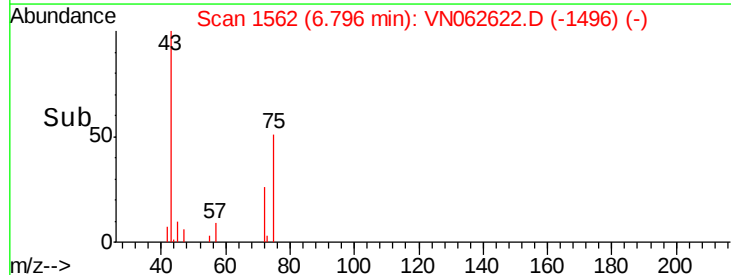
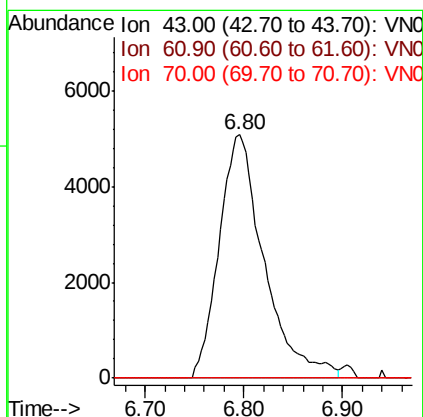
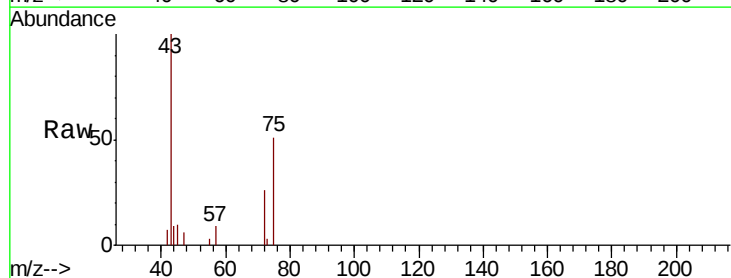
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20200443-3002C

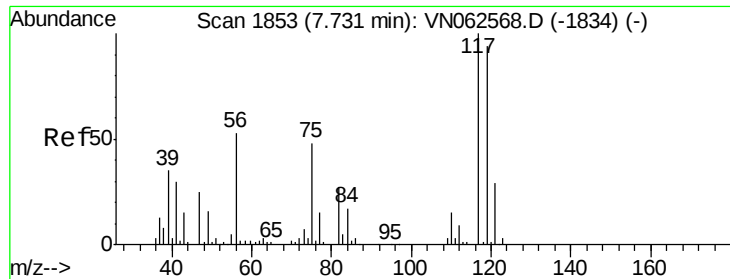
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.3   | 16.0  | 48.0# |
| 77      | 0.0   | 24.6  | 36.8# |



#37  
 Ethyl Acetate  
 Concen: 5.156 ug/l  
 RT: 6.80 min Scan# 1562  
 Delta R.T. -0.09 min  
 Lab File: VN062622.D  
 Acq: 28 Jul 2020 00:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 11.3  | 16.9# |
| 70      | 0.0   | 7.7   | 11.5# |

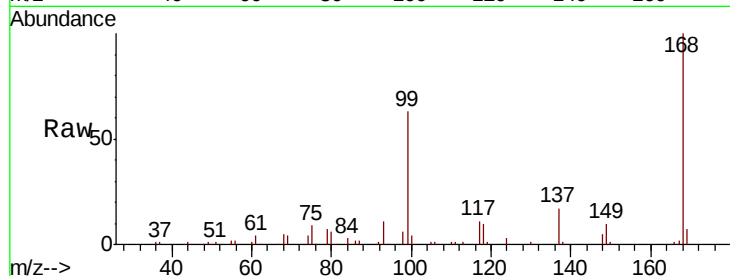




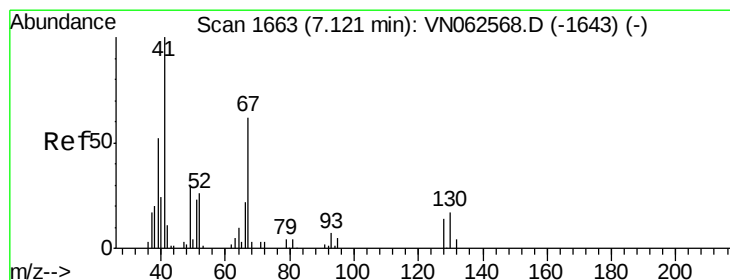
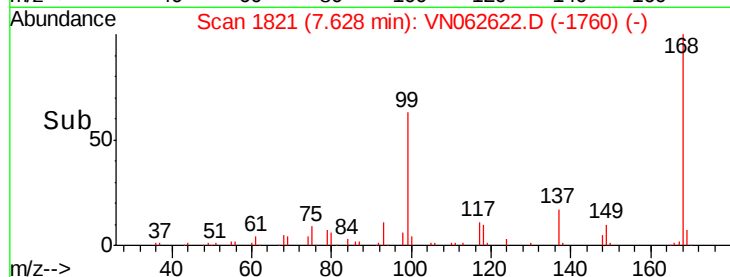
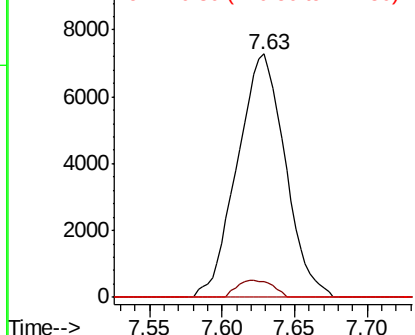
#38  
Carbon Tetrachloride  
Concen: 5.997 ug/l  
RT: 7.63 min Scan# 1821  
Delta R.T. -0.10 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
20200443-3002C

Tot Ion:117 Resp: 16752  
Ion Ratio Lower Upper  
117 100  
119 6.6 74.8 112.2#  
121 0.0 23.0 34.6#

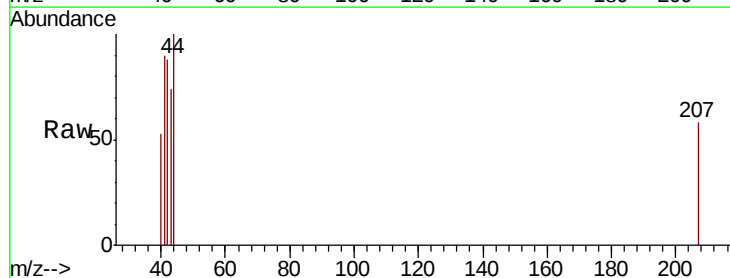


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

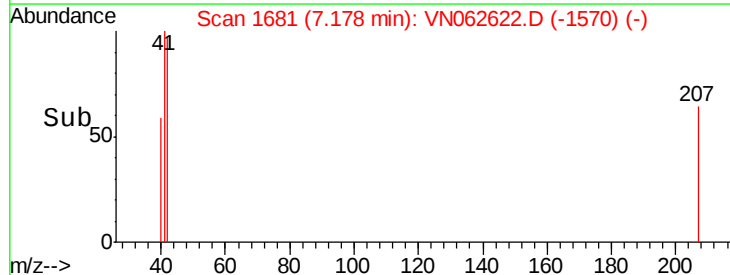
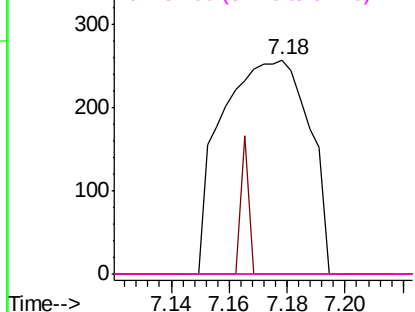


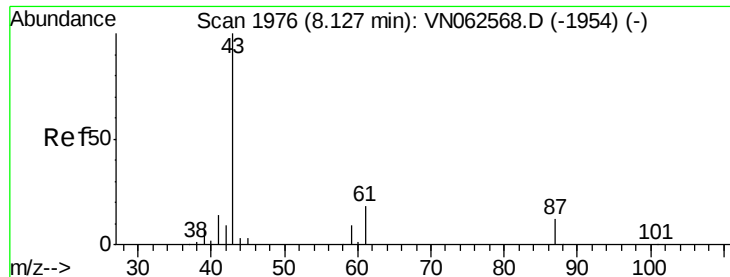
#41  
Methacrylonitrile  
Concen: 0.398 ug/l  
RT: 7.18 min Scan# 1681  
Delta R.T. 0.06 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Tgt Ion: 41 Resp: 535  
Ion Ratio Lower Upper  
41 100  
39 6.0 55.8 83.6#  
67 0.0 72.5 108.7#  
52 0.0 31.8 47.8#



Abundance Ion 41.00 (40.70 to 41.70): V  
Ion 39.00 (38.70 to 39.70): V  
Ion 67.00 (66.70 to 67.70): V  
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 3.149 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

Instrument :

MSVOA\_N

ClientSampleId :

20200443-3002C

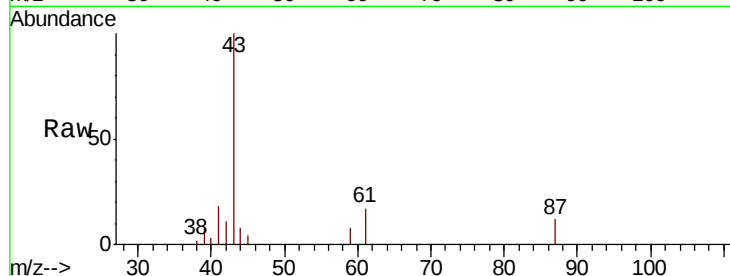
Tot Ion: 43 Resp: 15903

Ion Ratio Lower Upper

43 100

61 17.0 20.8 31.2#

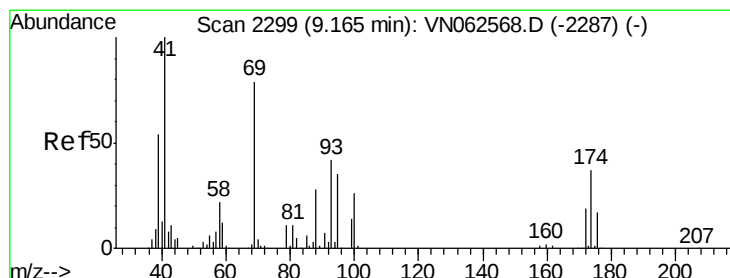
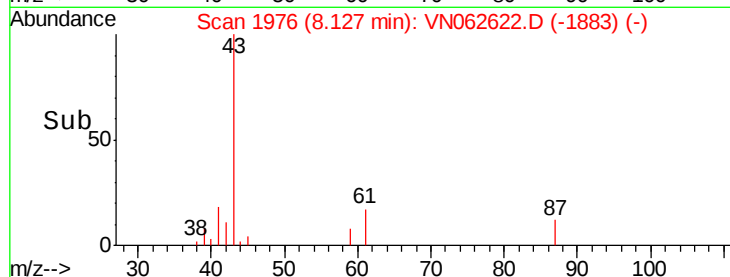
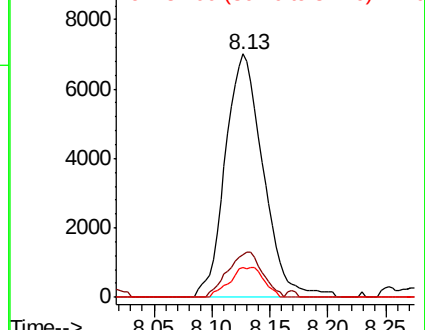
87 11.0 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062622.D (-2206) (-)

Ion 61.00 (60.70 to 61.70): VN062622.D (-2206) (-)

Ion 87.00 (86.70 to 87.70): VN062622.D (-2206) (-)



#48

Methyl methacrylate

Concen: 0.951 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

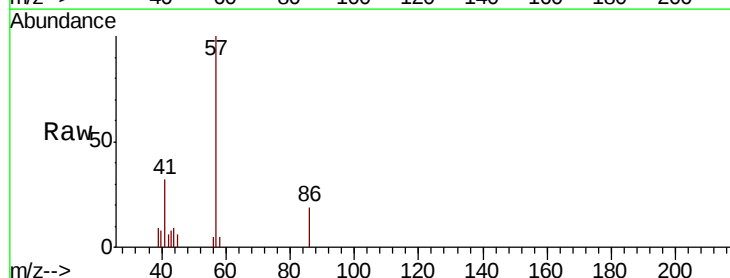
Tgt Ion: 41 Resp: 2283

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

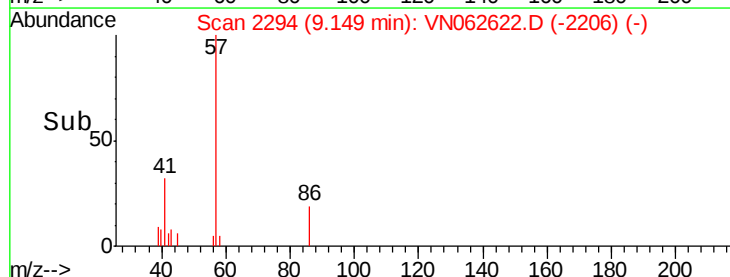
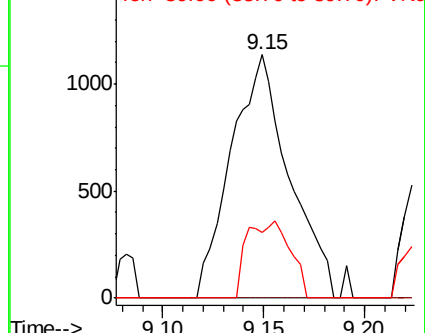
39 23.7 43.5 65.3#

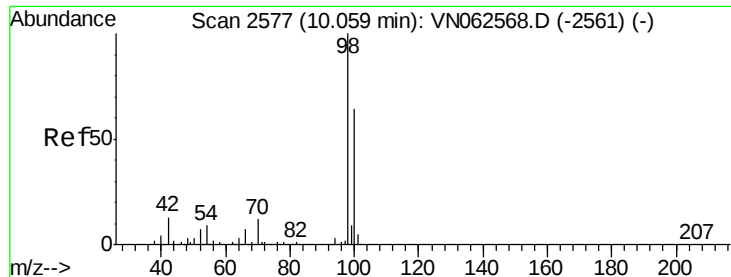


Abundance Ion 41.00 (40.70 to 41.70): VN062622.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN062622.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN062622.D (-2206) (-)

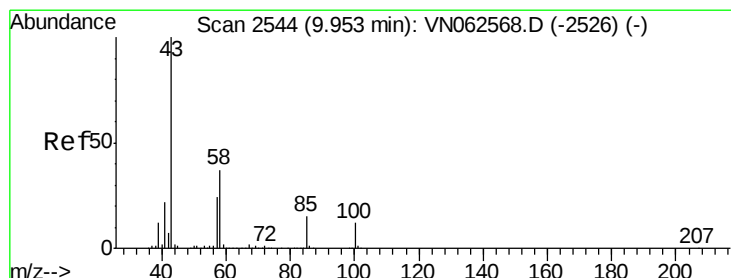
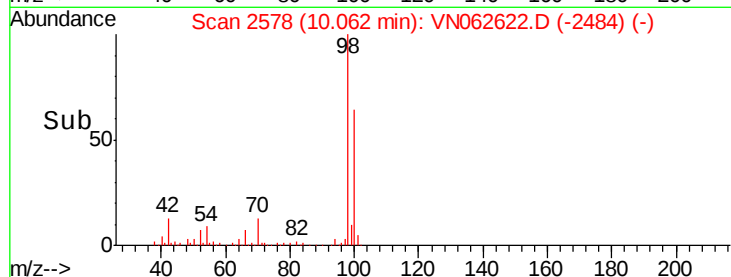
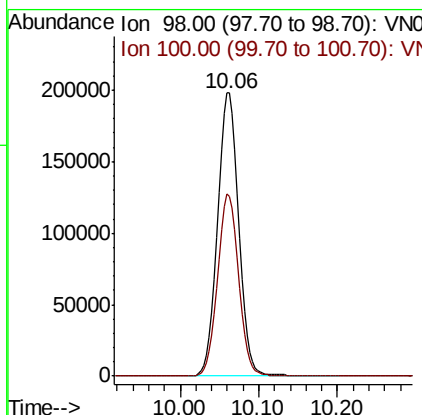
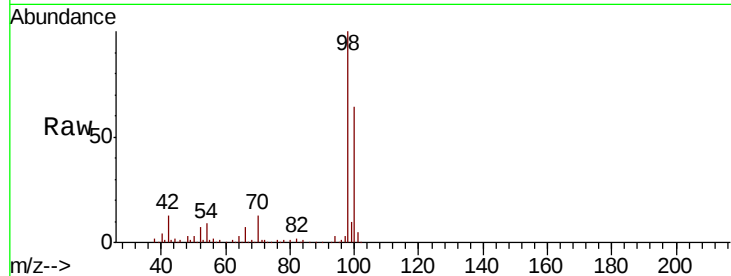




#50  
Toluene-d8  
Concen: 51.237 ug/l  
RT: 10.06 min Scan# 2578  
Delta R.T. 0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

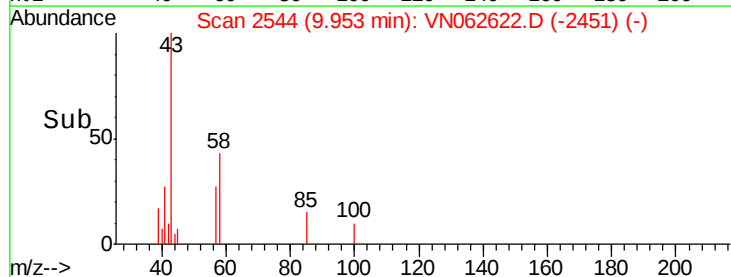
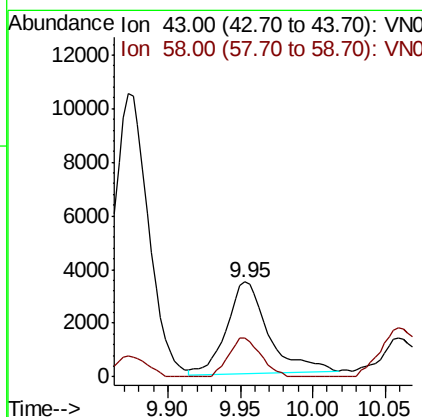
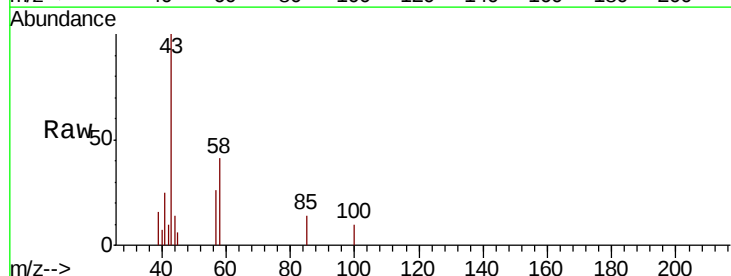
Instrument :  
MSVOA\_N  
ClientSampleId :  
20200443-3002C

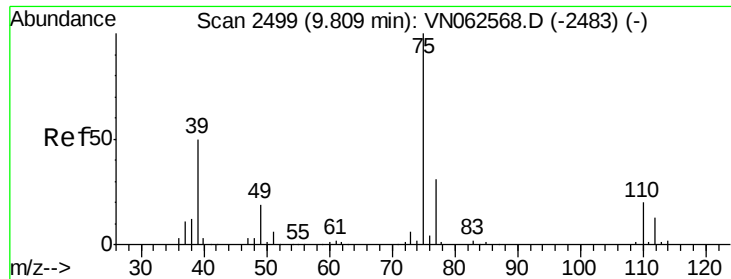
Tot Ion: 98 Resp: 366115  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.9 76.3



#51  
4-Methyl-2-Pentanone  
Concen: 2.264 ug/l  
RT: 9.95 min Scan# 2544  
Delta R.T. -0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Tgt Ion: 43 Resp: 6840  
Ion Ratio Lower Upper  
43 100  
58 32.3 29.8 44.6

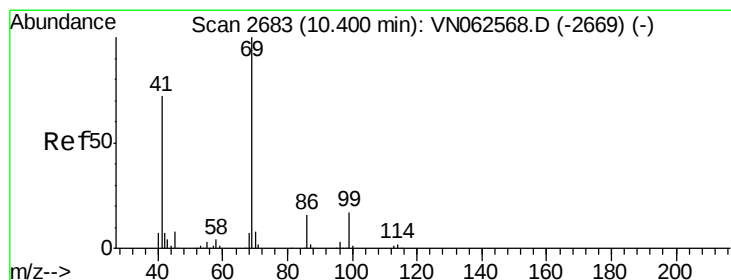
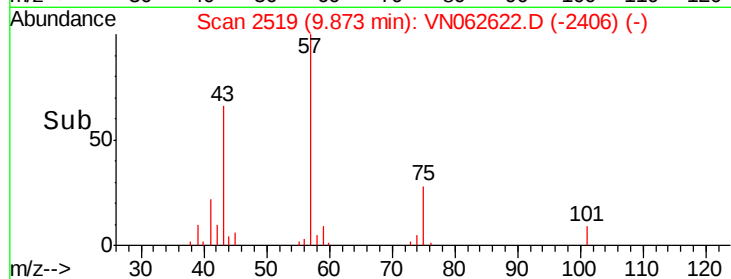
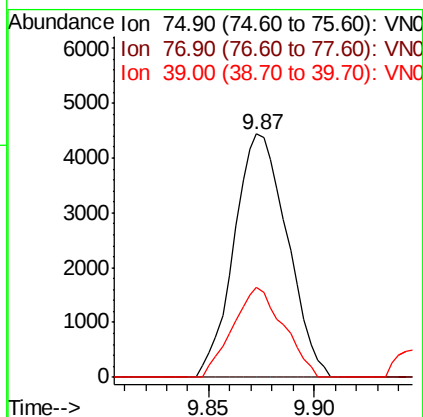
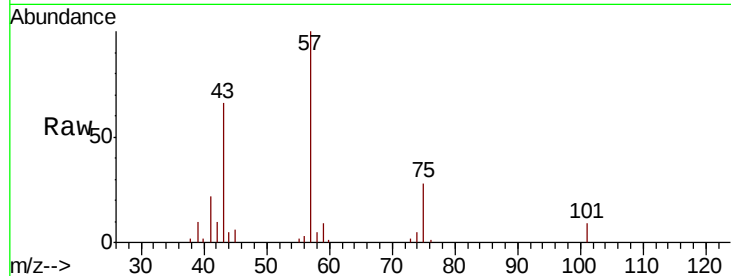




#54  
 cis-1,3-Dichloropropene  
 Concen: 2.096 ug/l  
 RT: 9.87 min Scan# 2519  
 Delta R.T. 0.06 min  
 Lab File: VN062622.D  
 Acq: 28 Jul 2020 00:36

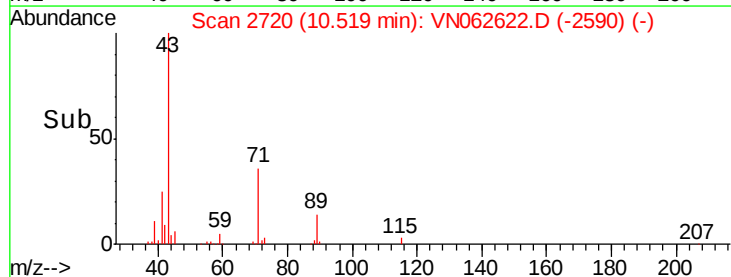
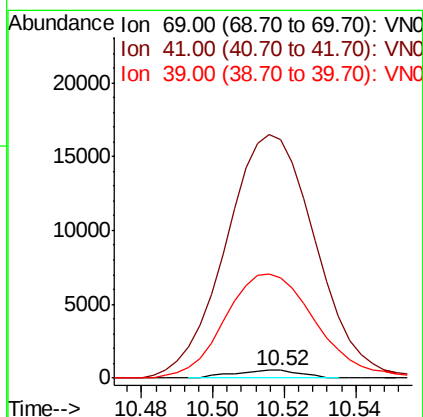
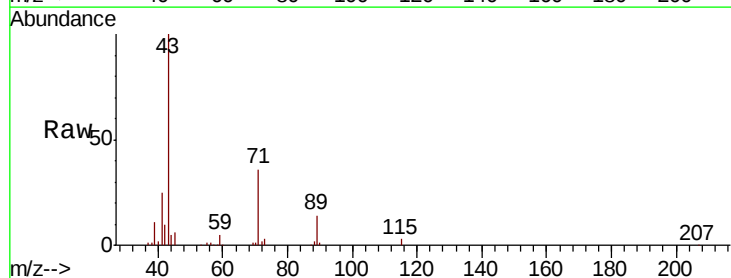
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20200443-3002C

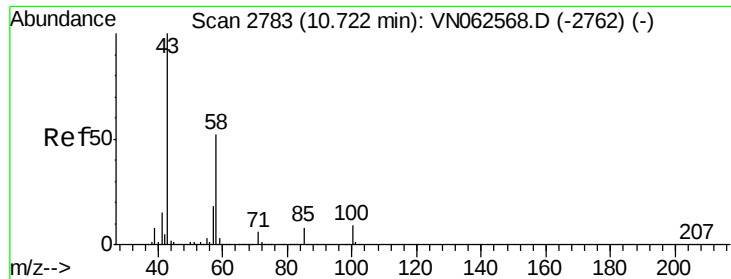
Tot Ion: 75 Resp: 7745  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.6#  
 39 36.9 39.8 59.8#



#56  
 Ethyl methacrylate  
 Concen: 1.954 ug/l  
 RT: 10.52 min Scan# 2720  
 Delta R.T. 0.12 min  
 Lab File: VN062622.D  
 Acq: 28 Jul 2020 00:36

Tgt Ion: 69 Resp: 684  
 Ion Ratio Lower Upper  
 69 100  
 41 4224.1 57.2 85.8#  
 39 1833.0 28.6 43.0#

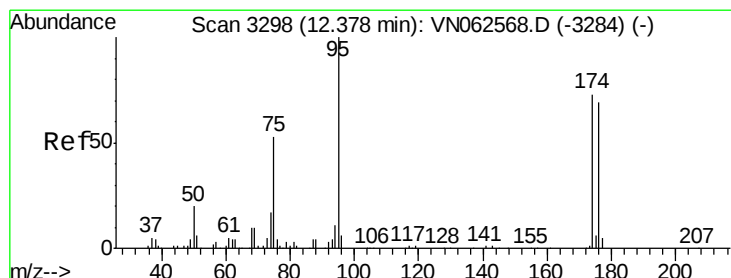
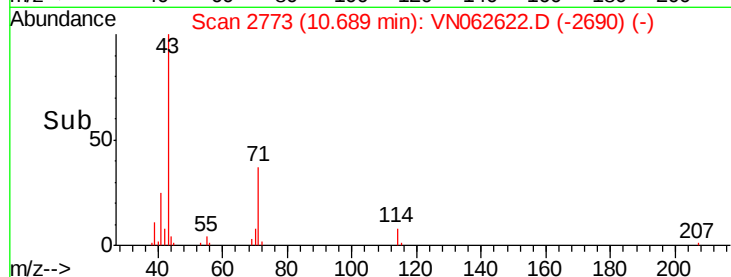
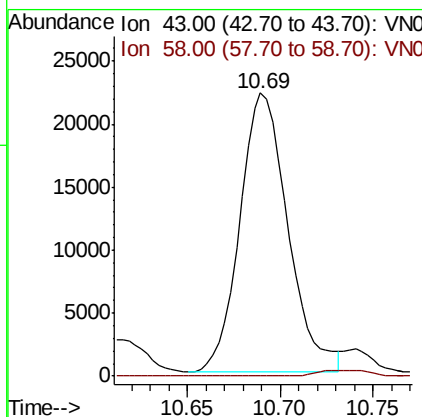
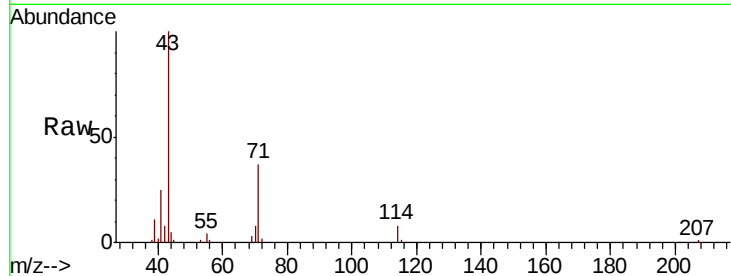




#59  
2-Hexanone  
Concen: 19.940 ug/l  
RT: 10.69 min Scan# 2773  
Delta R.T. -0.03 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

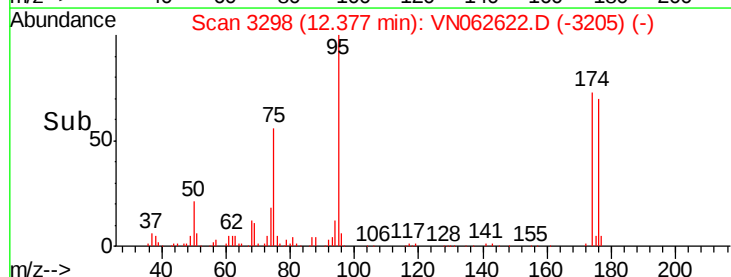
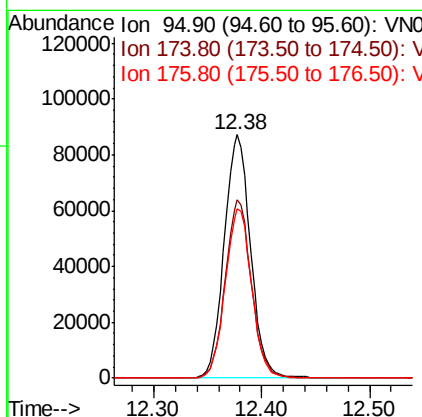
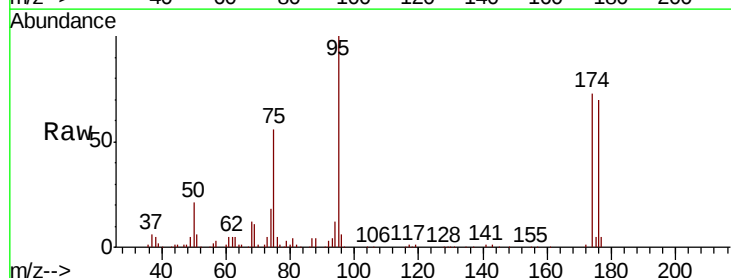
Instrument :  
MSVOA\_N  
ClientSampleId :  
20200443-3002C

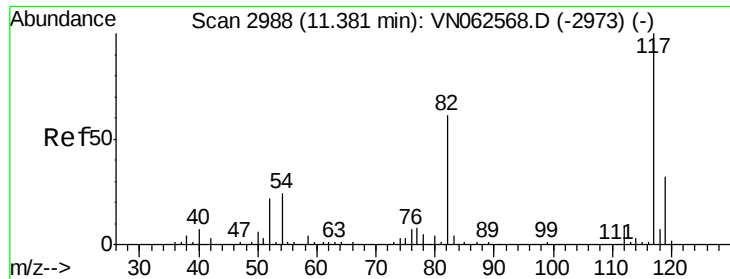
Tot Ion: 43 Resp: 40156  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.0 78.0#



#62  
4-Bromofluorobenzene  
Concen: 56.722 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. -0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Tgt Ion: 95 Resp: 148197  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 144.6  
176 69.8 0.0 139.4

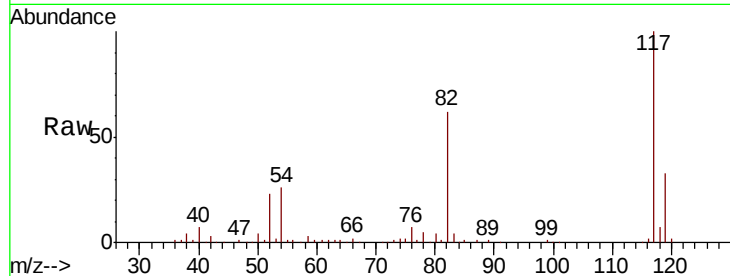




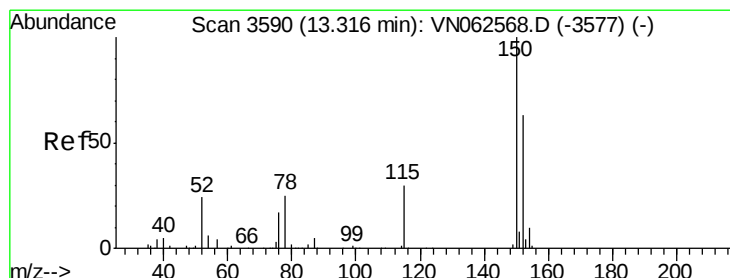
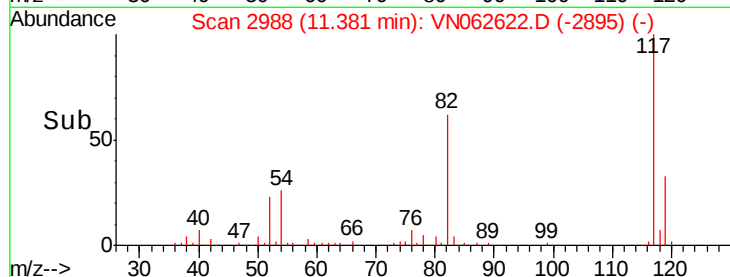
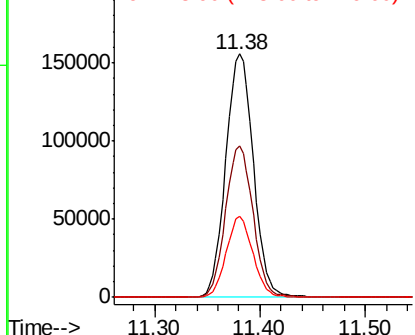
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
20200443-3002C

Tot Ion:117 Resp: 282364  
Ion Ratio Lower Upper  
117 100  
82 62.1 49.0 73.6  
119 33.2 25.4 38.2

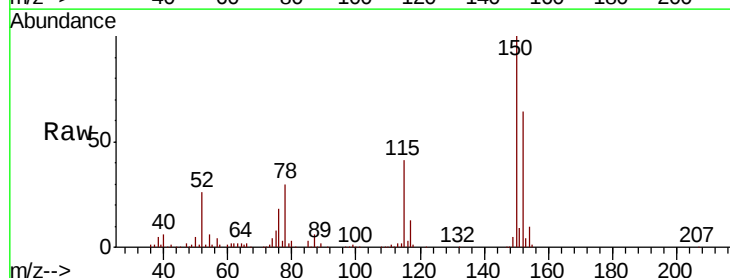


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

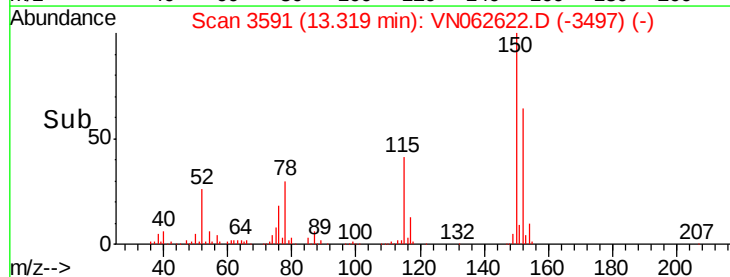
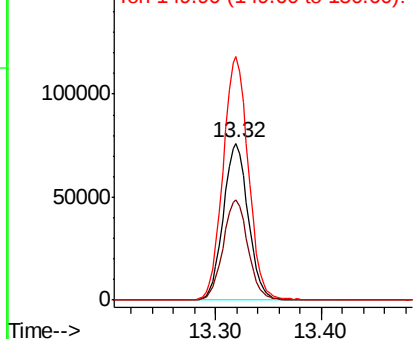


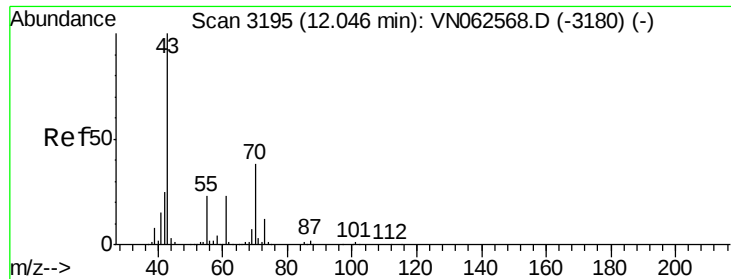
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN062622.D  
Acq: 28 Jul 2020 00:36

Tgt Ion:152 Resp: 124373  
Ion Ratio Lower Upper  
152 100  
115 63.8 31.8 95.4  
150 157.2 0.0 351.4



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-amyl acetate

Concen: 0.719 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

Instrument :

MSVOA\_N

ClientSampleId :

20200443-3002C

Tot Ion: 43 Resp: 3157

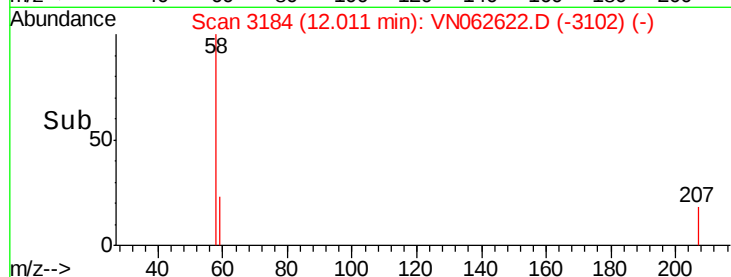
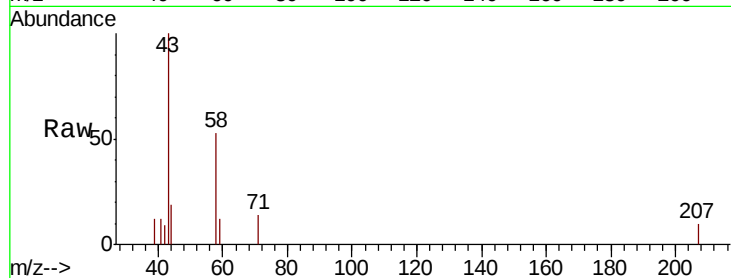
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 1.0 19.0 28.6#

61 0.0 18.4 27.6#

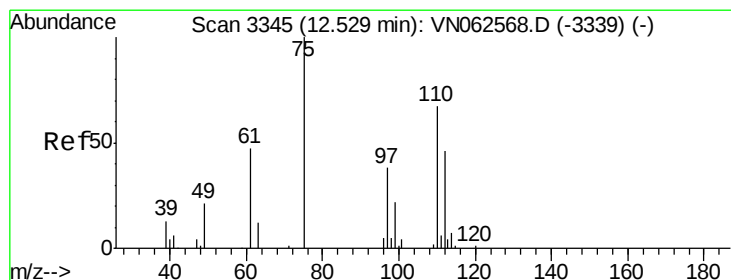
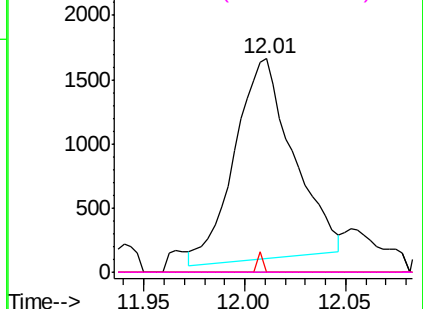


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.311 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062622.D

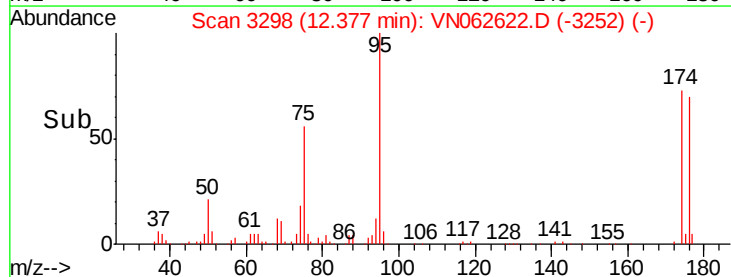
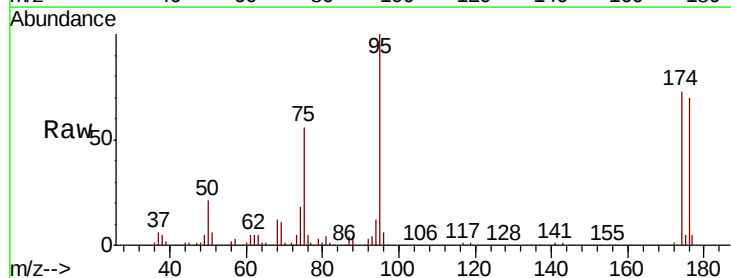
Acq: 28 Jul 2020 00:36

Tgt Ion: 75 Resp: 80127

Ion Ratio Lower Upper

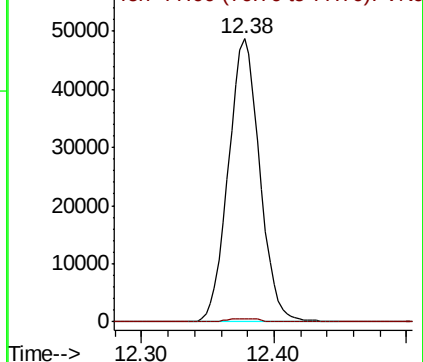
75 100

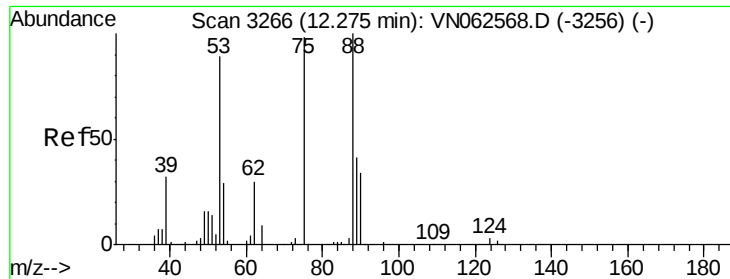
77 1.2 0.0 0.0#



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: 70.459 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

Instrument :

MSVOA\_N

ClientSampleId :

20200443-3002C

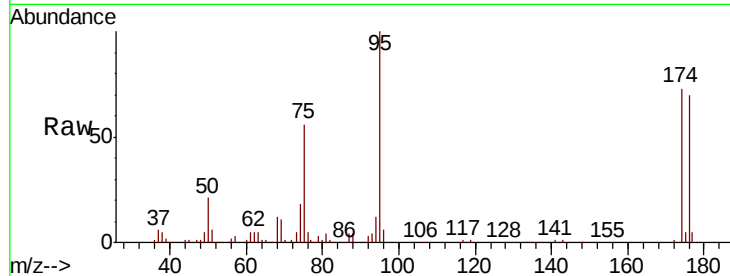
Tot Ion: 75 Resp: 80127

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

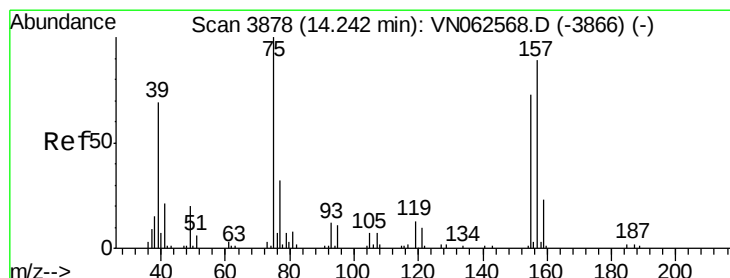
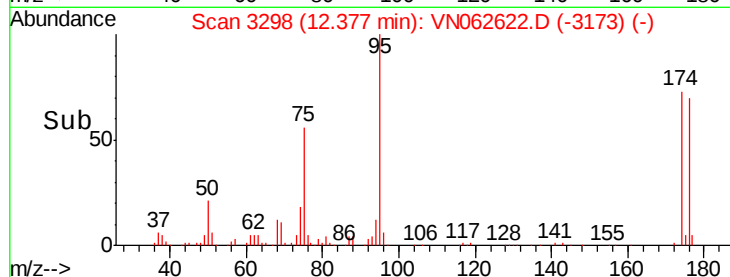
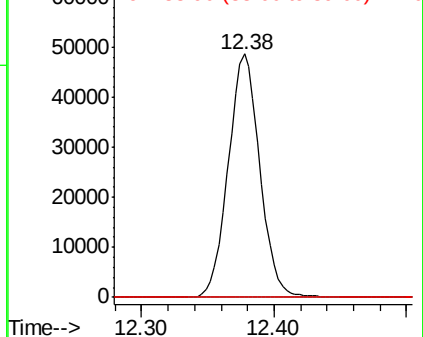
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.230 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.05 min

Lab File: VN062622.D

Acq: 28 Jul 2020 00:36

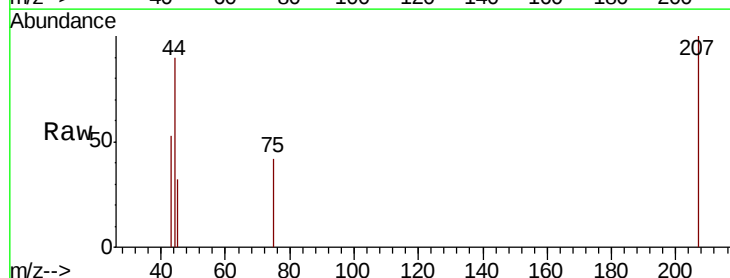
Tgt Ion: 75 Resp: 143

Ion Ratio Lower Upper

75 100

155 0.0 35.9 107.5#

157 0.0 45.0 135.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

