

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\  
 Data File : VN060506.D  
 Acq On : 13 Mar 2020 16:35  
 Operator : JC/MD  
 Sample : L1893-24  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 16 04:30:19 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  | 215666   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 354971   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 328957   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 157169   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.00   | 65  | 137032   | 49.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.04%  |      |
| 35) Dibromofluoromethane  | 7.56   | 113 | 104409   | 63.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 126.74% |      |
| 50) Toluene-d8            | 10.08  | 98  | 440729   | 52.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.70% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 165126   | 52.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.48% |      |

## Target Compounds

|                             |       |     |        |           | Qvalue     |
|-----------------------------|-------|-----|--------|-----------|------------|
| 12) 1,1-Dichloroethene      | 3.75  | 96  | 29     | Below Cal | # 1        |
| 13) Acrolein                | 3.55  | 56  | 814    | 2.124     | ug/l # 1   |
| 14) Allyl chloride          | 4.36  | 41  | 947    | 0.248     | ug/l # 43  |
| 15) Acrylonitrile           | 5.02  | 53  | 561    | 0.518     | ug/l # 25  |
| 16) Acetone                 | 3.78  | 43  | 21406  | 23.956    | ug/l 91    |
| 17) Carbon Disulfide        | 4.03  | 76  | 92     | Below Cal | # 75       |
| 18) Methyl Acetate          | 4.30  | 43  | 1486   | 0.498     | ug/l # 56  |
| 20) Methylene Chloride      | 4.52  | 84  | 6649   | 2.709     | ug/l # 95  |
| 25) 2-Butanone              | 6.81  | 43  | 7045   | 4.881     | ug/l 92    |
| 31) Cyclohexane             | 7.63  | 56  | 140884 | 37.350    | ug/l 98    |
| 36) 1,1-Dichloropropene     | 7.64  | 75  | 17176  | 5.077     | ug/l # 49  |
| 37) Ethyl Acetate           | 6.81  | 43  | 7045   | 2.199     | ug/l # 68  |
| 38) Carbon Tetrachloride    | 7.64  | 117 | 20652  | 6.270     | ug/l # 15  |
| 39) Methylcyclohexane       | 9.07  | 83  | 149813 | 37.559    | ug/l 96    |
| 40) Benzene                 | 8.02  | 78  | 10378  | 1.054     | ug/l 97    |
| 41) Methacrylonitrile       | 7.17  | 41  | 337    | 0.228     | ug/l # 100 |
| 43) Isopropyl Acetate       | 8.14  | 43  | 45226  | 8.065     | ug/l # 88  |
| 45) 1,2-Dichloropropane     | 9.06  | 63  | 1501   | 0.583     | ug/l # 1   |
| 47) Bromodichloromethane    | 9.37  | 83  | 1256   | 0.370     | ug/l # 25  |
| 48) Methyl methacrylate     | 9.16  | 41  | 2301   | 0.900     | ug/l # 13  |
| 51) 4-Methyl-2-Pentanone    | 9.97  | 43  | 3931   | 1.236     | ug/l 94    |
| 52) Toluene                 | 10.14 | 92  | 13877  | 2.244     | ug/l 98    |
| 54) cis-1,3-Dichloropropene | 9.89  | 75  | 17296  | 4.010     | ug/l # 58  |
| 55) 1,1,2-Trichloroethane   | 10.52 | 97  | 10364  | 4.167     | ug/l # 19  |
| 56) Ethyl methacrylate      | 10.42 | 69  | 3490   | 0.977     | ug/l # 1   |
| 57) 1,3-Dichloropropane     | 10.75 | 76  | 2655   | 0.655     | ug/l # 42  |
| 59) 2-Hexanone              | 10.75 | 43  | 39314  | 16.840    | ug/l # 54  |
| 67) Ethyl Benzene           | 11.50 | 91  | 308209 | 25.479    | ug/l 100   |
| 68) m/p-Xylenes             | 11.61 | 106 | 145683 | 31.921    | ug/l 100   |
| 69) o-Xylene                | 11.94 | 106 | 20524  | 4.716     | ug/l 95    |
| 73) Isopropylbenzene        | 12.24 | 105 | 96778  | 8.308     | ug/l 99    |
| 74) N-amyl acetate          | 12.02 | 43  | 3512   | 0.690     | ug/l # 61  |
| 76) 1,2,3-Trichloropropane  | 12.40 | 75  | 83492  | 24.213    | ug/l # 100 |
| 78) n-propylbenzene         | 12.59 | 91  | 79885  | 5.850     | ug/l 99    |

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 ClientSampleId :

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 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

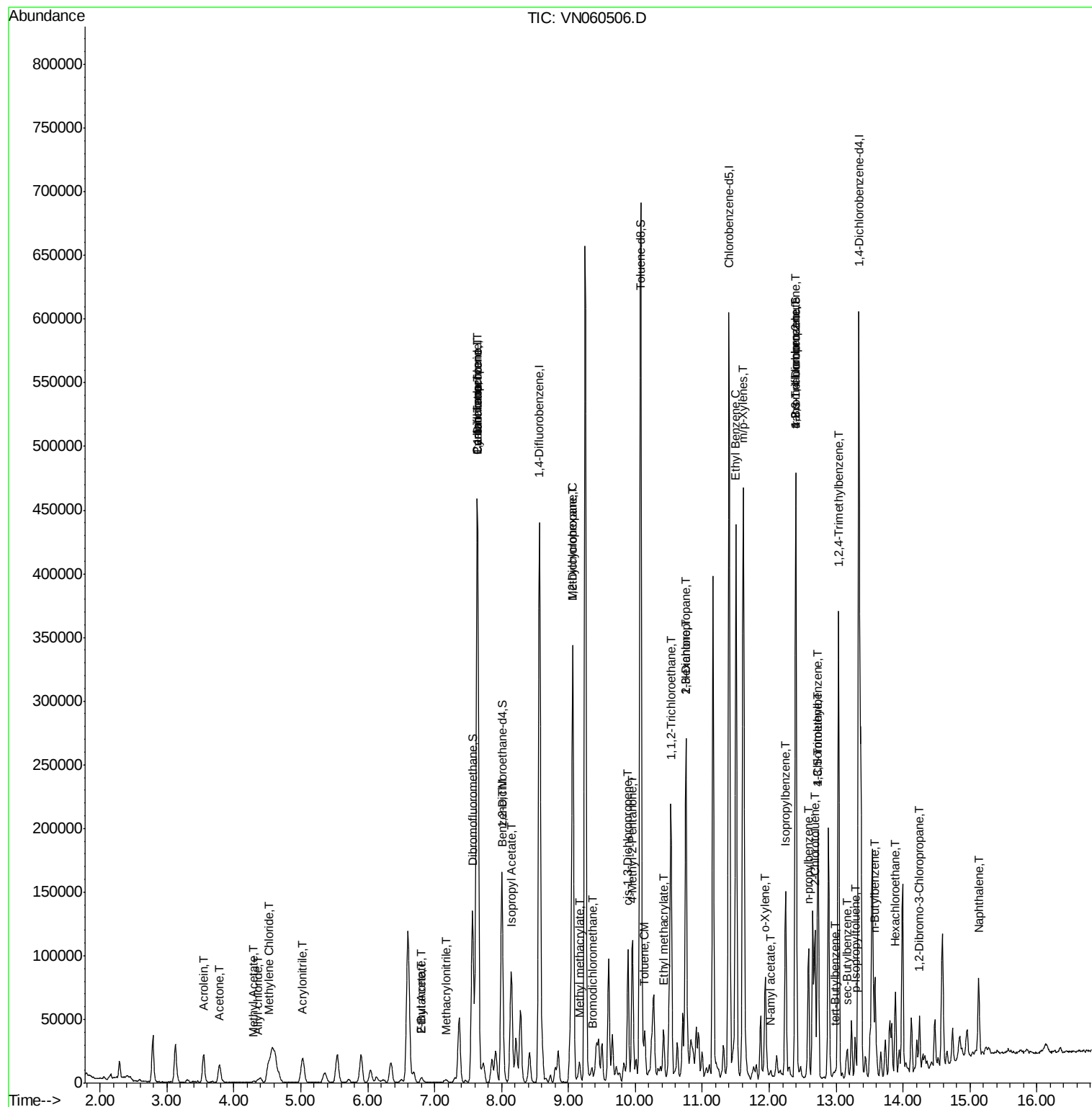
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 79) 2-Chlorotoluene            | 12.68 | 91   | 7492     | 0.933  | ug/l # | 41       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 103262   | 10.528 | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 83492    | 66.838 | ug/l # | 8        |
| 82) 4-Chlorotoluene            | 12.73 | 91   | 11229    | 1.328  | ug/l # | 41       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 2653     | 0.312  | ug/l   | 79       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 207673   | 20.978 | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 14409    | 1.267  | ug/l   | 79       |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 17071    | 1.622  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.58 | 91   | 3169     | 0.328  | ug/l # | 1        |
| 90) Hexachloroethane           | 13.89 | 117  | 3644     | 2.392  | ug/l # | 8        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 327      | 0.456  | ug/l # | 3        |
| 95) Naphthalene                | 15.13 | 128  | 50601    | 5.160  | ug/l   | 99       |

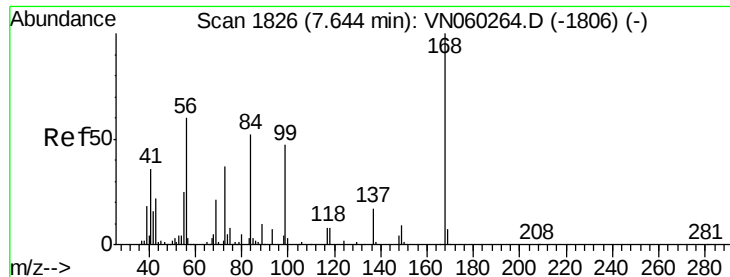
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1825

Delta R.T. -0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

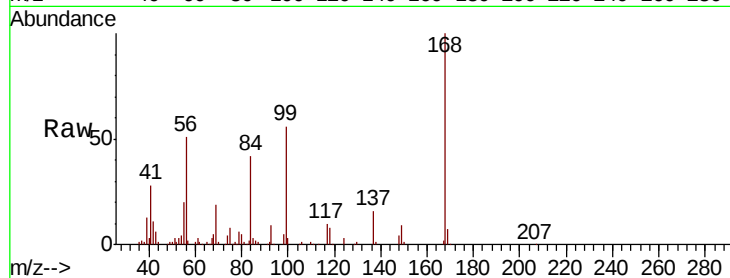
ClientSampleId :

Tot Ion:168 Resp: 215666

Ion Ratio Lower Upper

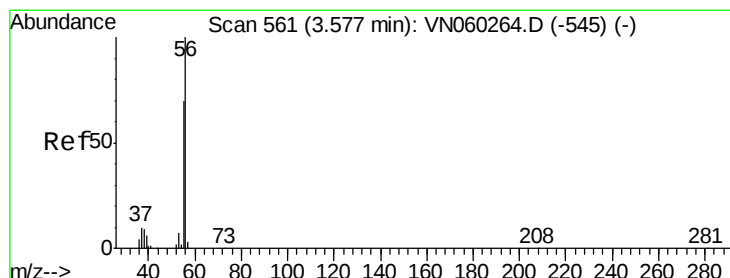
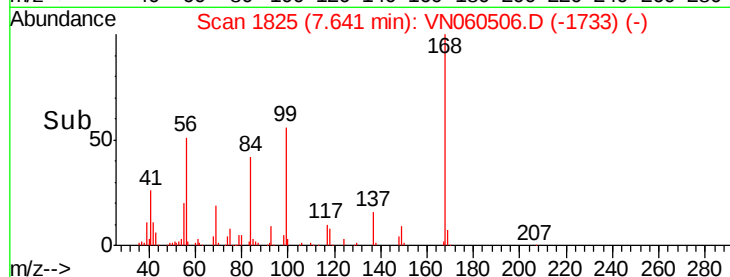
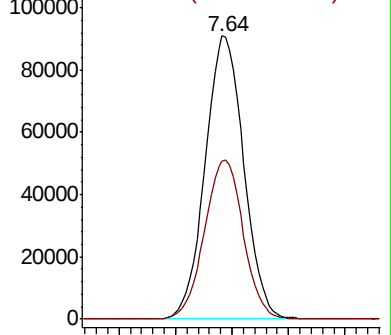
168 100

99 56.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#13

Acrolein

Concen: 2.124 ug/l

RT: 3.55 min Scan# 553

Delta R.T. -0.03 min

Lab File: VN060506.D

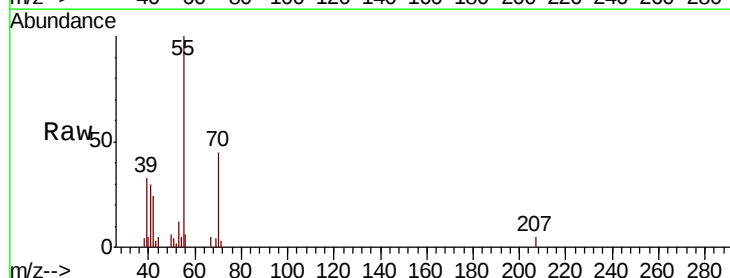
Acq: 13 Mar 2020 16:35

Tgt Ion: 56 Resp: 814

Ion Ratio Lower Upper

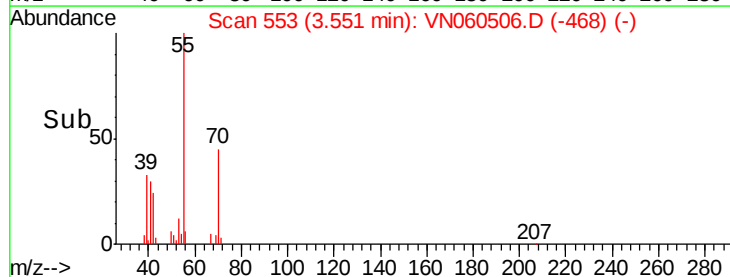
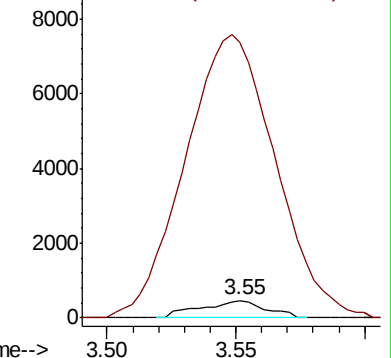
56 100

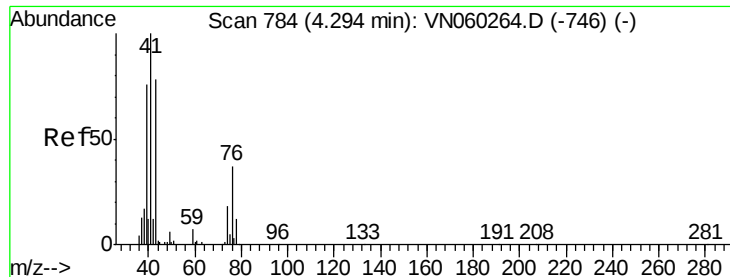
55 2266.6 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

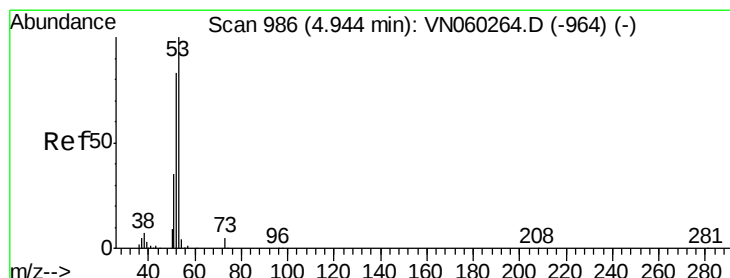
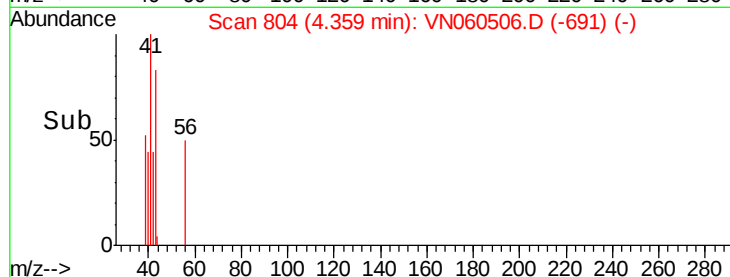
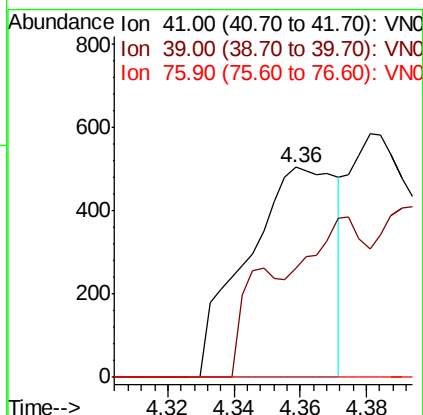
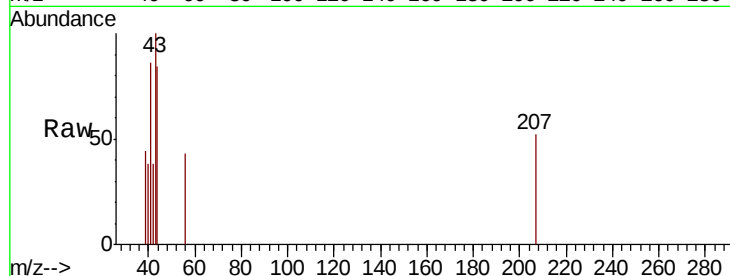




#14  
Allvl chloride  
Concen: 0.248 ug/l  
RT: 4.36 min Scan# 804  
Delta R.T. 0.06 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

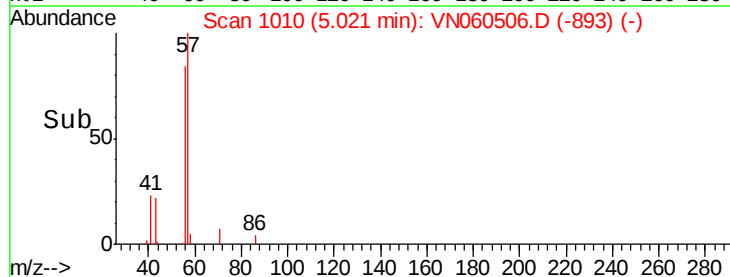
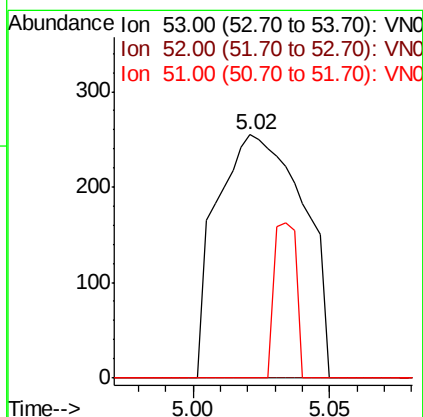
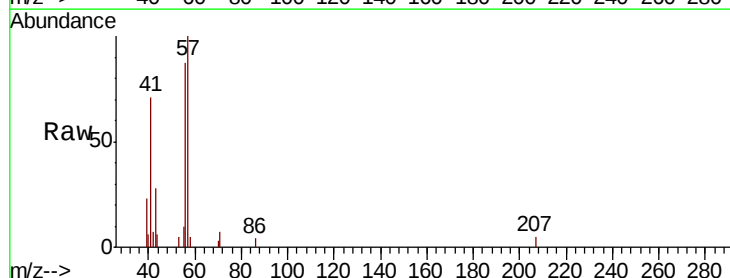
Instrument :  
MSVOA\_N  
ClientSampleId :

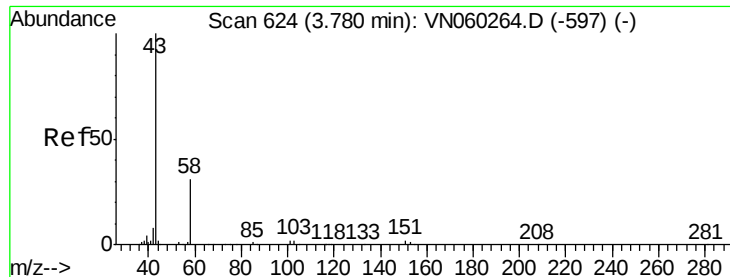
Tot Ion: 41 Resp: 947  
Ion Ratio Lower Upper  
41 100  
39 24.2 55.4 83.2#  
76 0.0 27.0 40.6#



#15  
Acrylonitrile  
Concen: 0.518 ug/l  
RT: 5.02 min Scan# 1010  
Delta R.T. 0.08 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 53 Resp: 561  
Ion Ratio Lower Upper  
53 100  
52 0.0 66.8 100.2#  
51 16.4 29.0 43.6#





#16

Acetone

Concen: 23.956 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

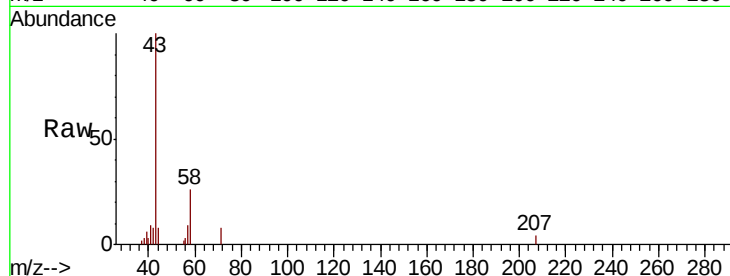
ClientSampled :

Tot Ion: 43 Resp: 21406

Ion Ratio Lower Upper

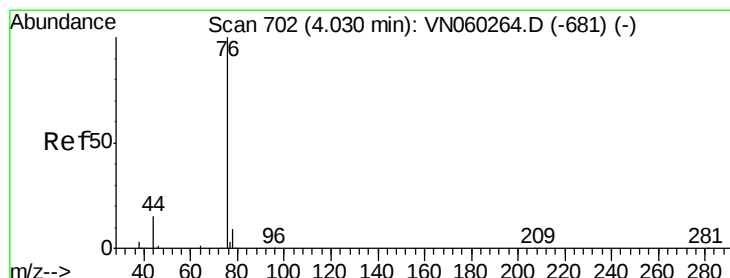
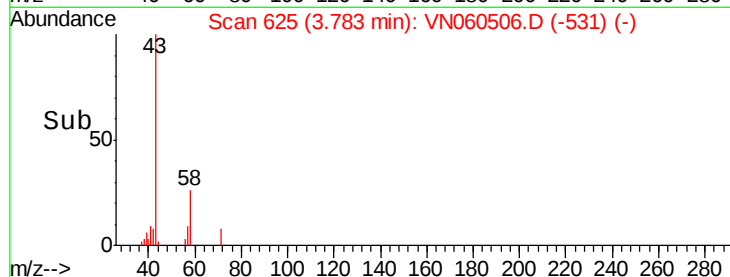
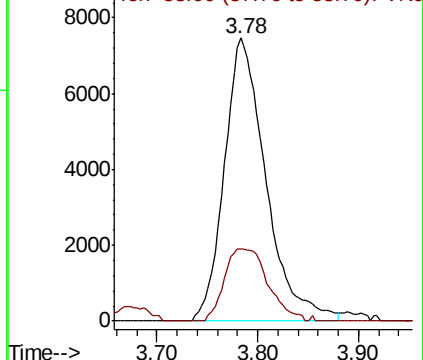
43 100

58 25.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060506.D

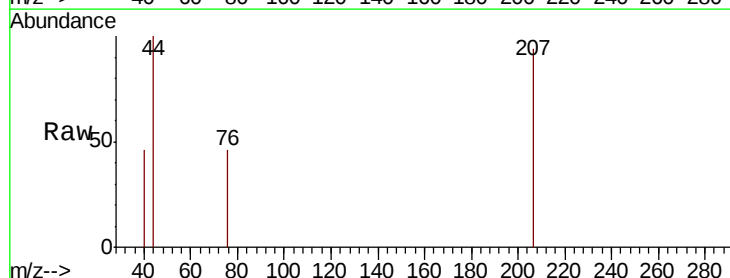
Acq: 13 Mar 2020 16:35

Tgt Ion: 76 Resp: 92

Ion Ratio Lower Upper

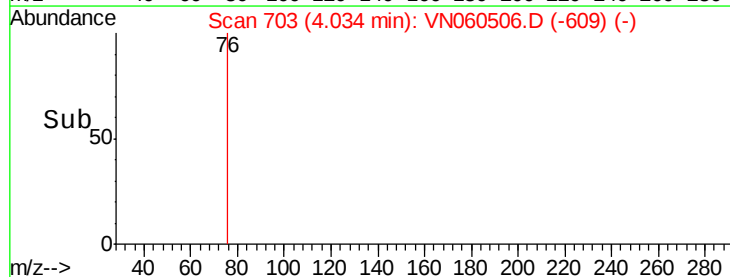
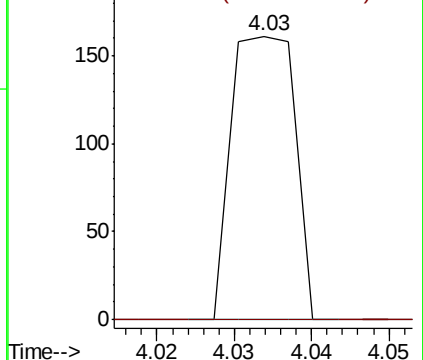
76 100

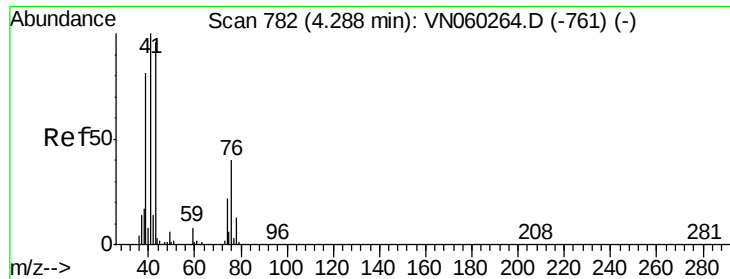
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)

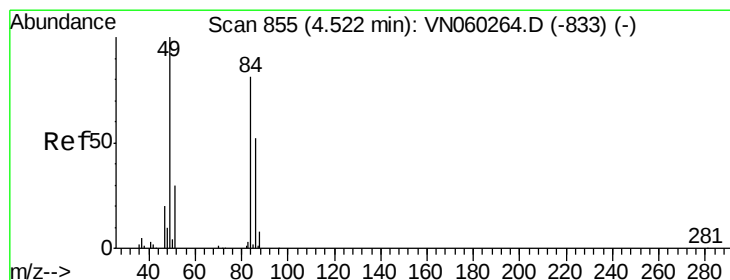
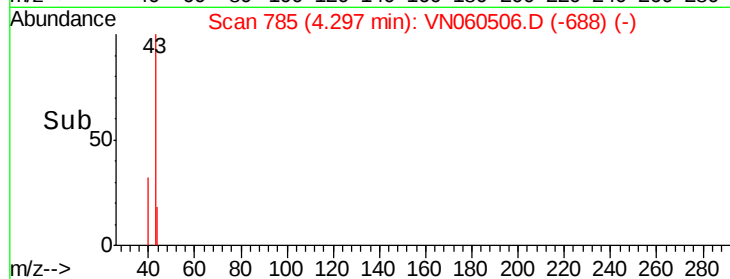
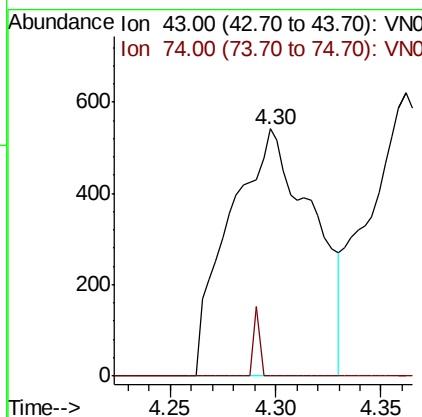
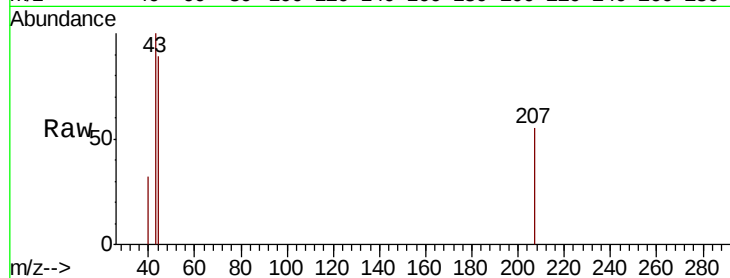




#18  
Methyl Acetate  
Concen: 0.498 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. 0.01 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

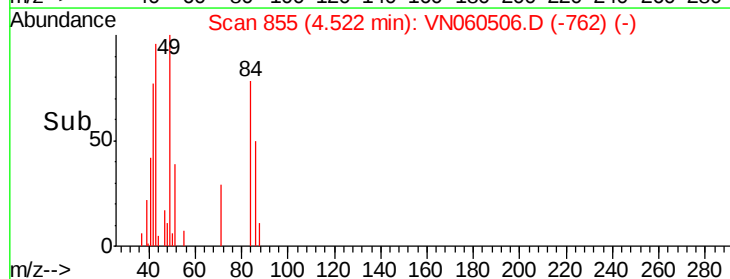
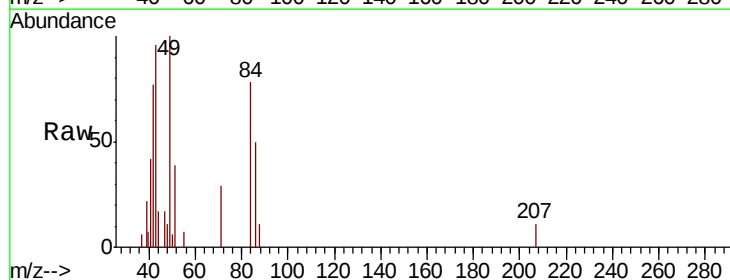
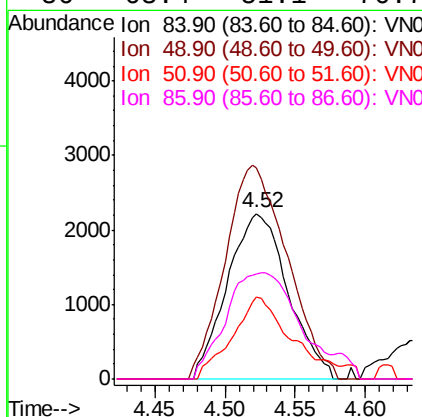
Instrument :  
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ClientSampleId :

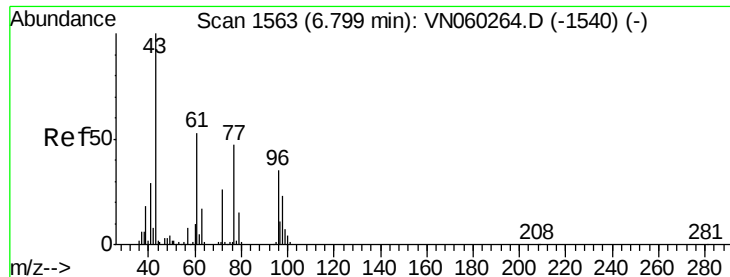
Tot Ion: 43 Resp: 1486  
Ion Ratio Lower Upper  
43 100  
74 2.0 18.8 28.2#



#20  
Methylene Chloride  
Concen: 2.709 ug/l  
RT: 4.52 min Scan# 855  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 84 Resp: 6649  
Ion Ratio Lower Upper  
84 100  
49 127.5 99.3 148.9  
51 49.8 30.1 45.1#  
86 63.4 51.1 76.7

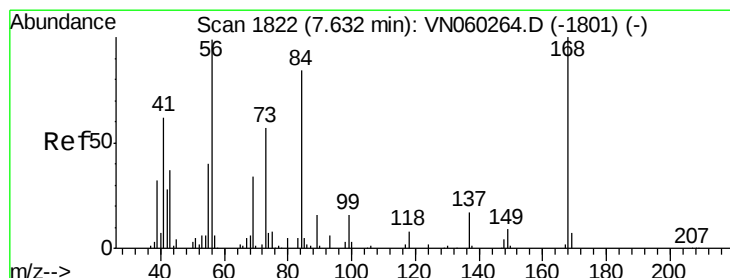
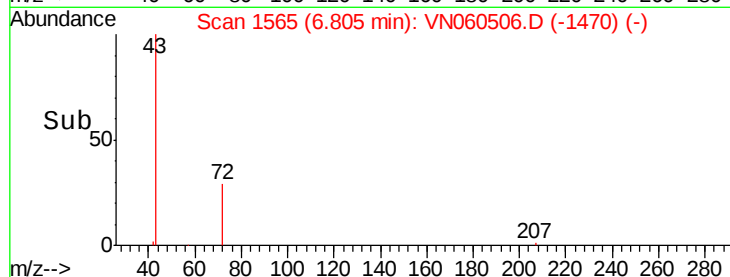
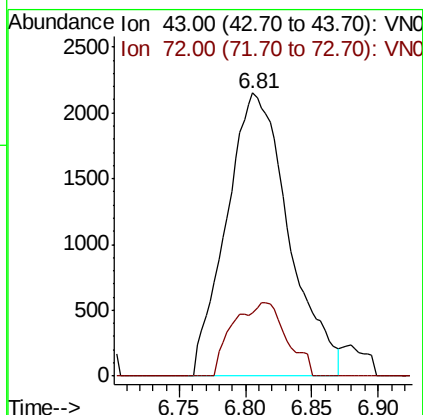
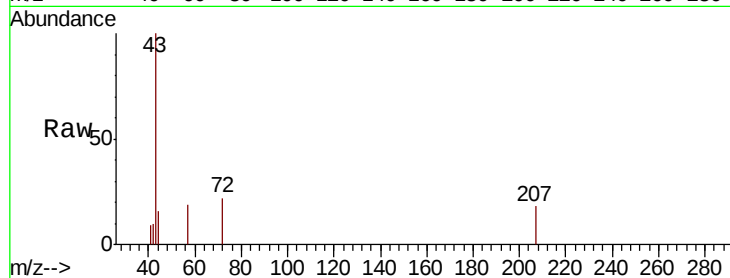




#25  
2-Butanone  
Concen: 4.881 ug/l  
RT: 6.81 min Scan# 1565  
Delta R.T. 0.01 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

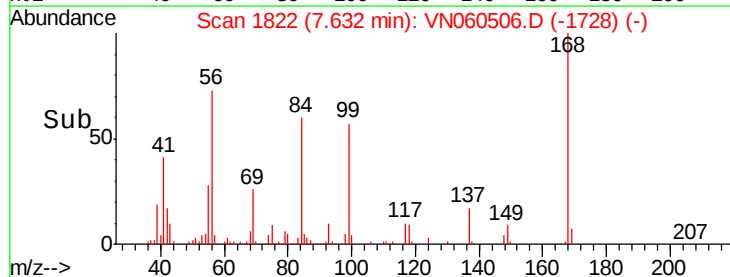
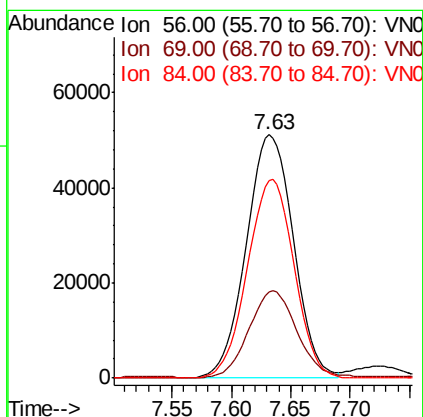
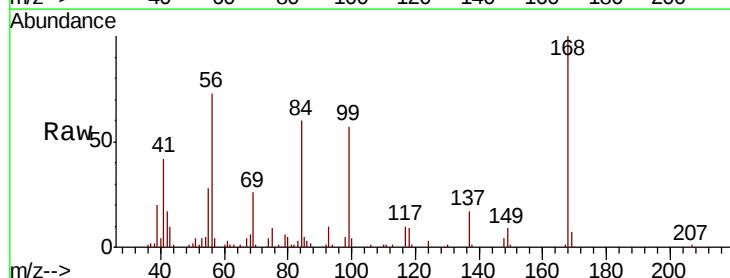
Instrument :  
MSVOA\_N  
ClientSampled :

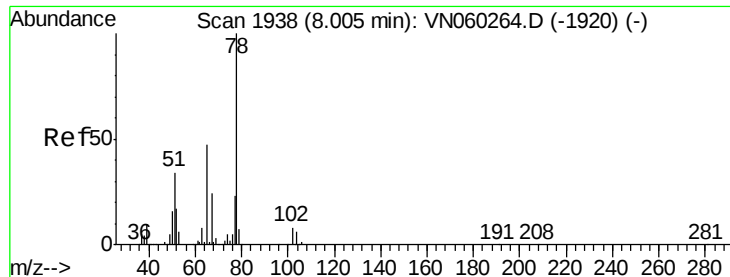
Tot Ion: 43 Resp: 7045  
Ion Ratio Lower Upper  
43 100  
72 22.1 20.9 31.3



#31  
Cyclohexane  
Concen: 37.350 ug/l  
RT: 7.63 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 56 Resp: 140884  
Ion Ratio Lower Upper  
56 100  
69 35.4 27.2 40.8  
84 81.3 66.7 100.1





#33

1,2-Dichloroethane-d4

Concen: 49.523 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

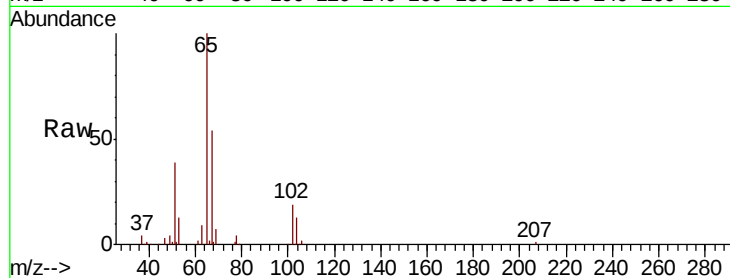
ClientSampleId :

Tot Ion: 65 Resp: 137032

Ion Ratio Lower Upper

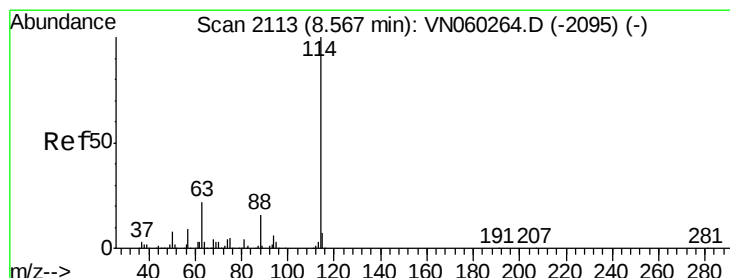
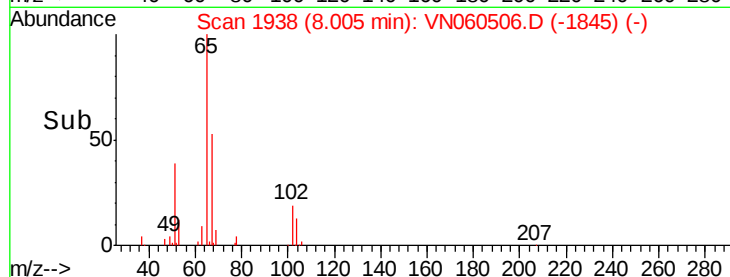
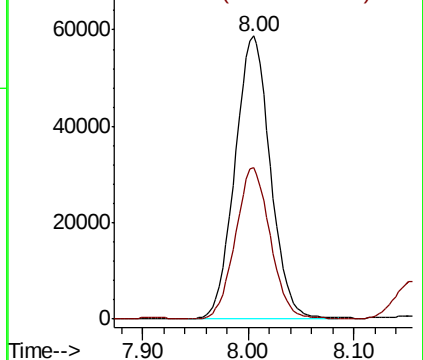
65 100

67 52.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060506.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060506.D (-1845) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

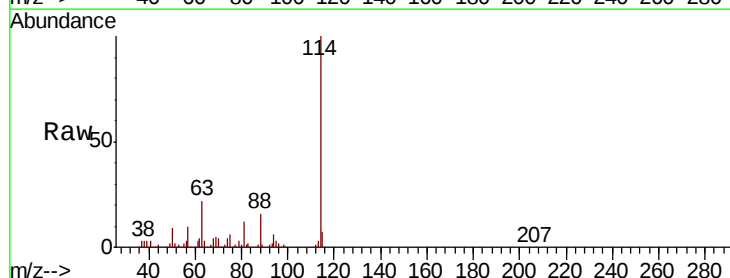
Tgt Ion: 114 Resp: 354971

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.2

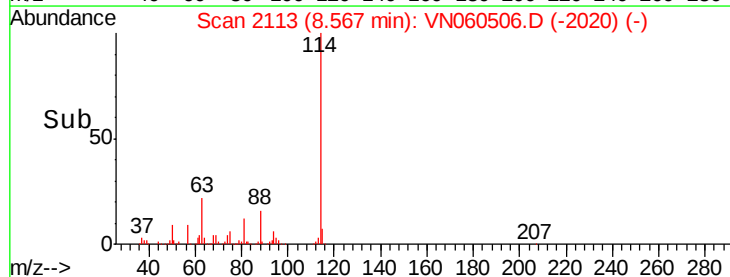
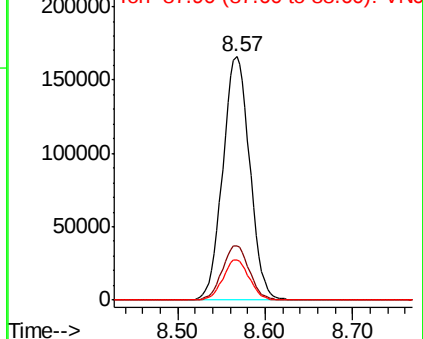
88 16.3 0.0 31.6

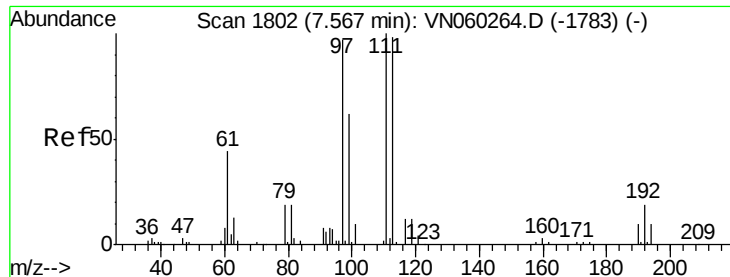


Abundance Ion 113.90 (113.60 to 114.60): VN060506.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060506.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060506.D (-2020) (-)

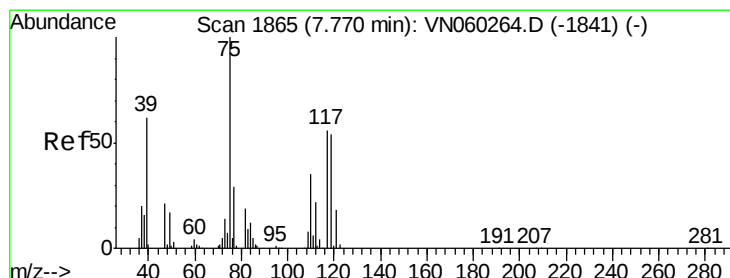
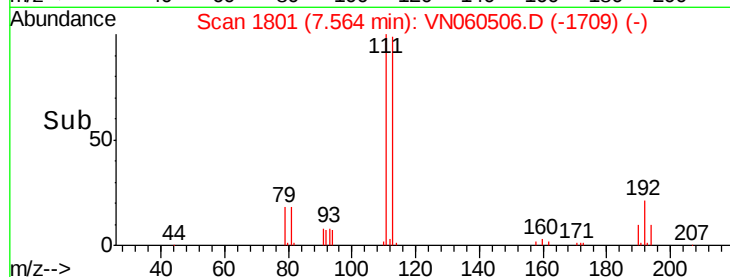
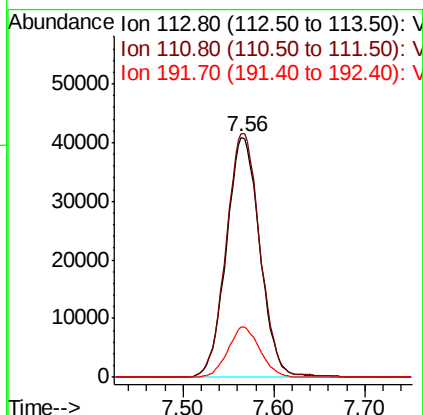
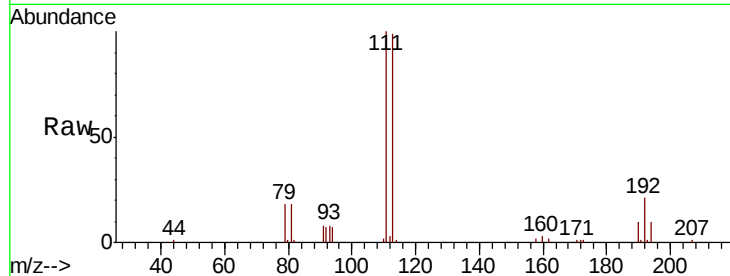




#35  
 Dibromofluoromethane  
 Concen: 63.368 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

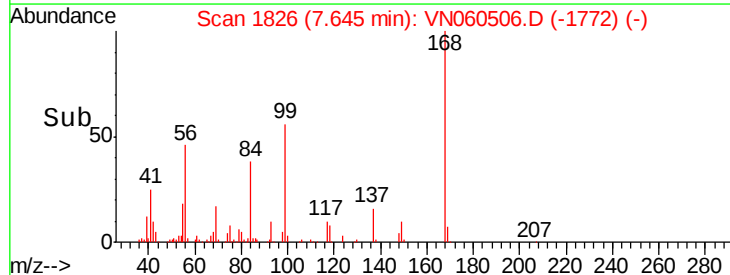
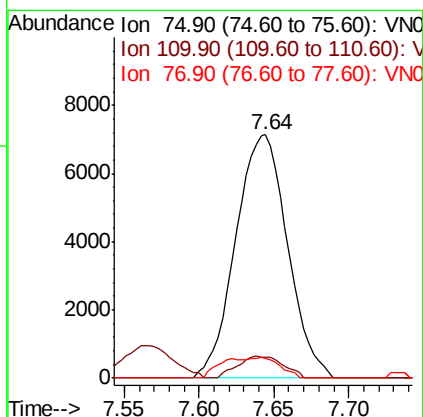
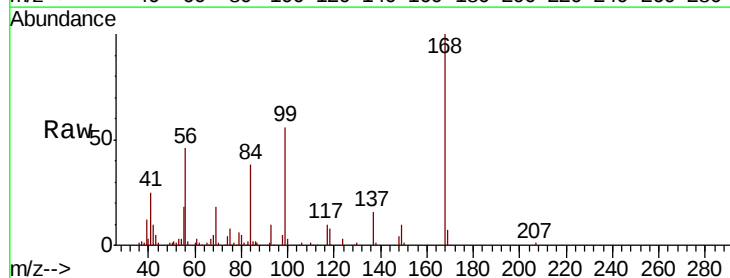
Instrument :  
 MSVOA\_N  
 ClientSampleId :

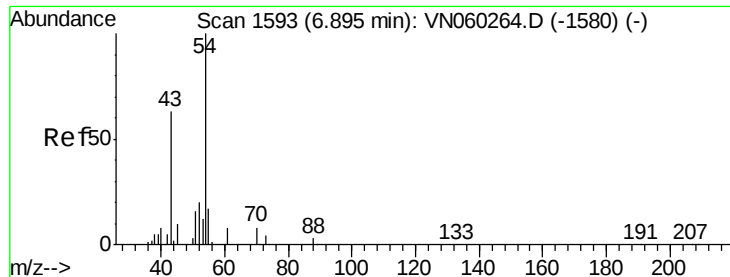
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.4  | 123.6 |
| 192     | 20.0  | 16.2  | 24.2  |



#36  
 1,1-Dichloropropene  
 Concen: 5.077 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.0   | 17.3  | 52.0# |
| 77      | 0.0   | 24.2  | 36.2# |

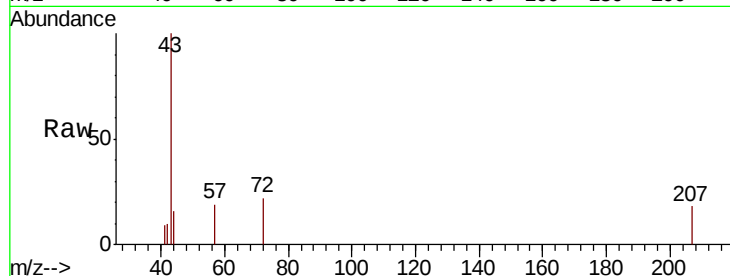




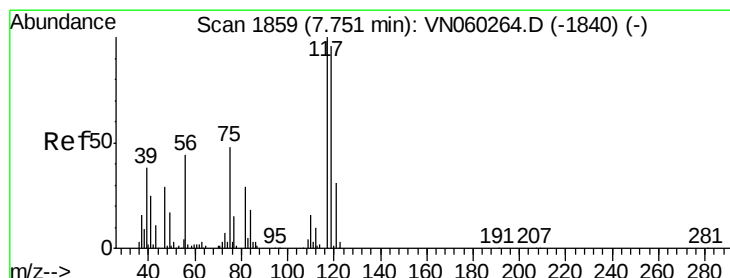
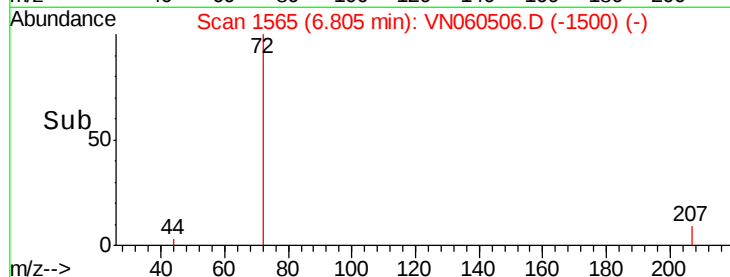
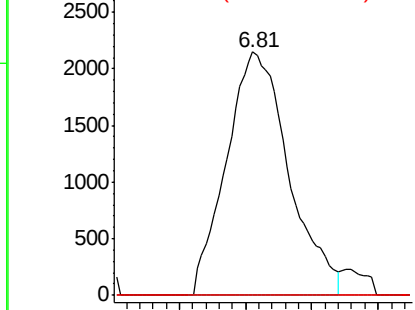
#37  
Ethyl Acetate  
Concen: 2.199 ug/l  
RT: 6.81 min Scan# 1565  
Delta R.T. -0.09 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 7045  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.1 16.7#  
70 0.0 8.4 12.6#

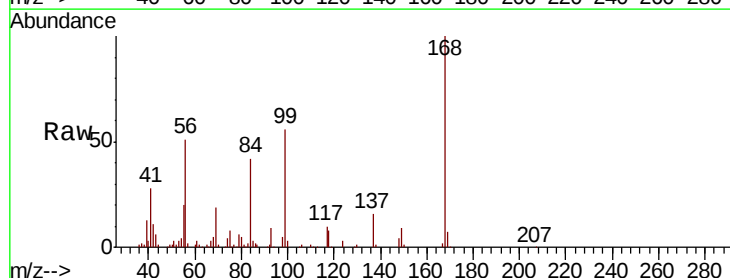


Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 70.00 (69.70 to 70.70): VN0

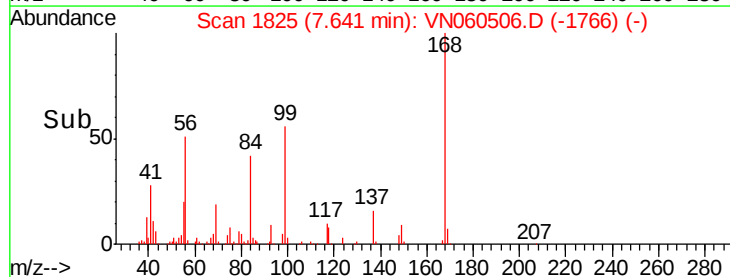
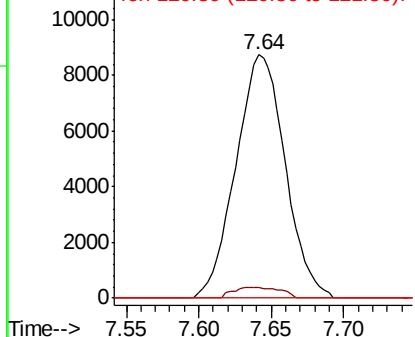


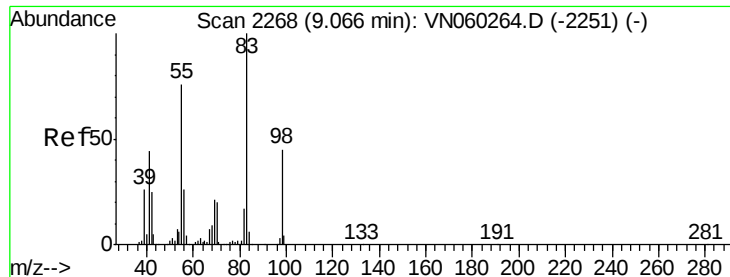
#38  
Carbon Tetrachloride  
Concen: 6.270 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.11 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 117 Resp: 20652  
Ion Ratio Lower Upper  
117 100  
119 4.4 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

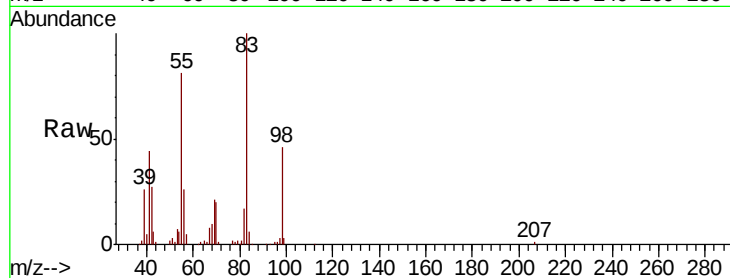




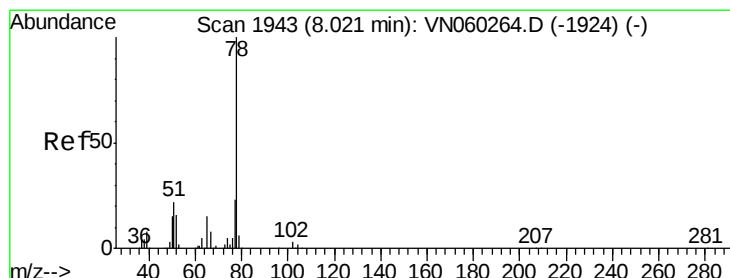
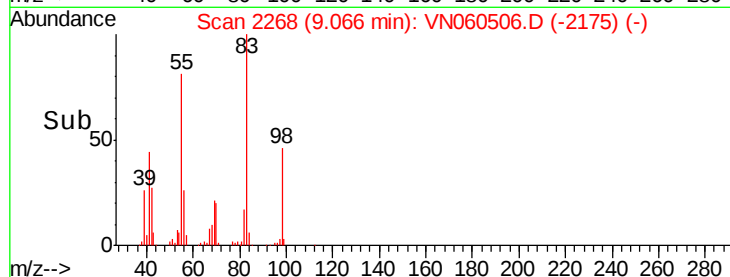
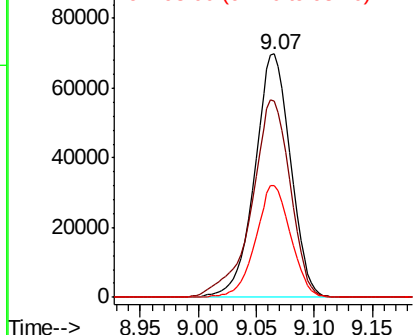
#39  
Methvlcvclohexane  
Concen: 37.559 ug/l  
RT: 9.07 min Scan# 2268  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 83 Resp: 149813  
Ion Ratio Lower Upper  
83 100  
55 80.4 61.0 91.4  
98 46.0 36.1 54.1

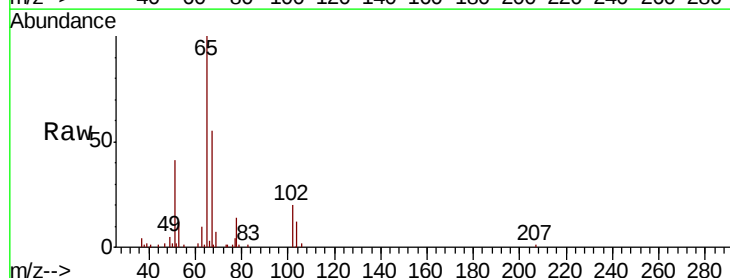


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

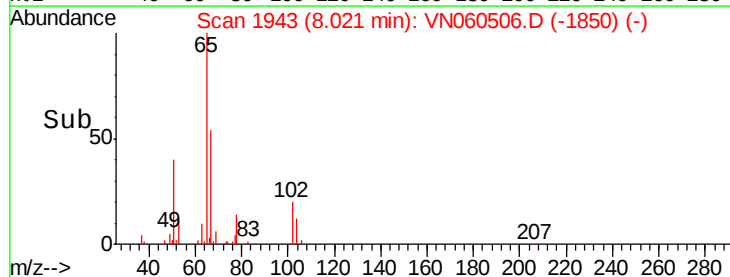
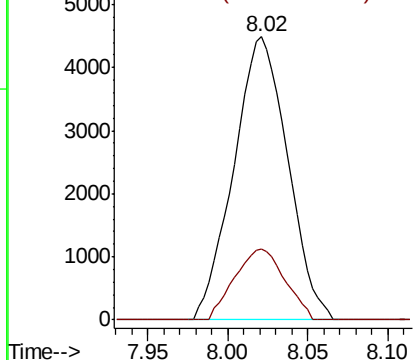


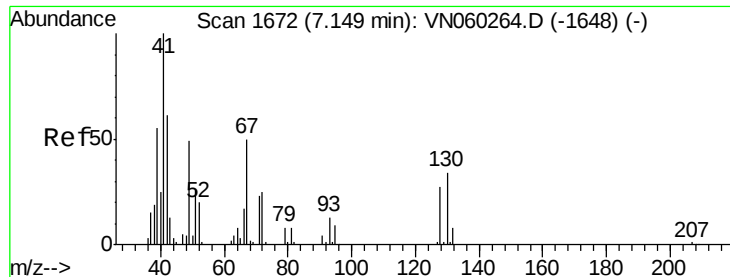
#40  
Benzene  
Concen: 1.054 ug/l  
RT: 8.02 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 78 Resp: 10378  
Ion Ratio Lower Upper  
78 100  
77 24.9 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0  
Ion 77.00 (76.70 to 77.70): VN0

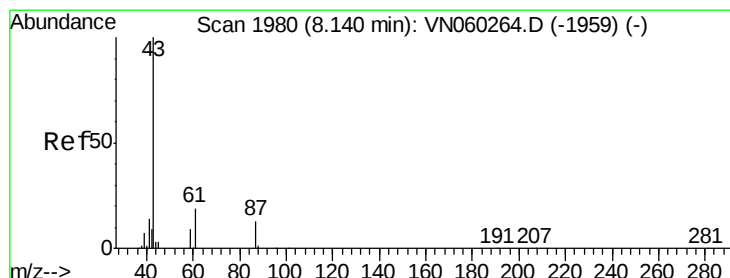
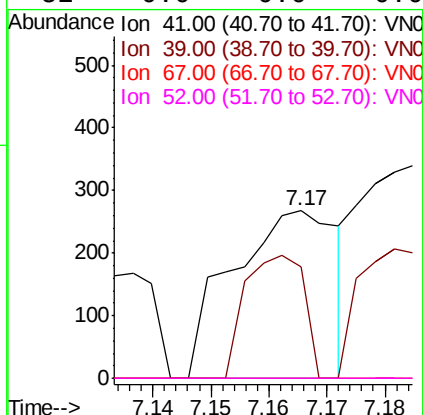
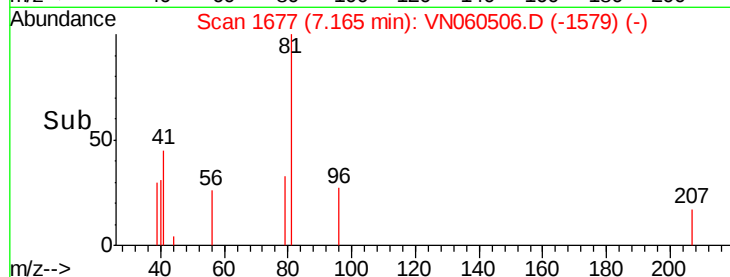
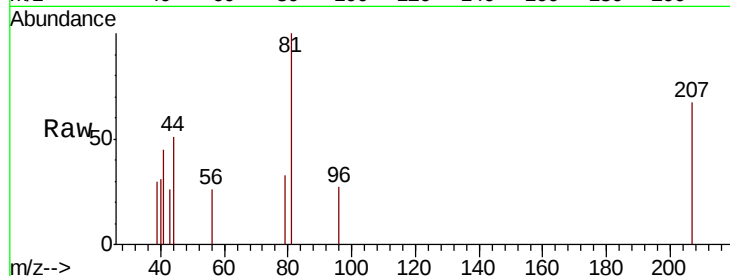




#41  
Methacrylonitrile  
Concen: 0.228 ug/l  
RT: 7.17 min Scan# 1677  
Delta R.T. 0.02 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

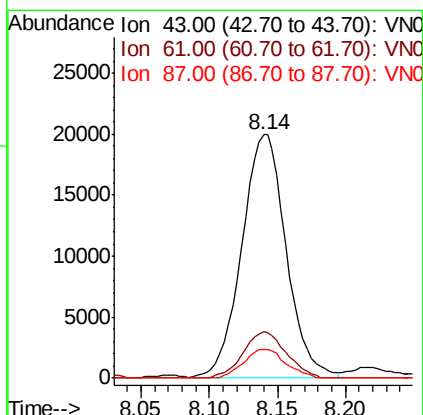
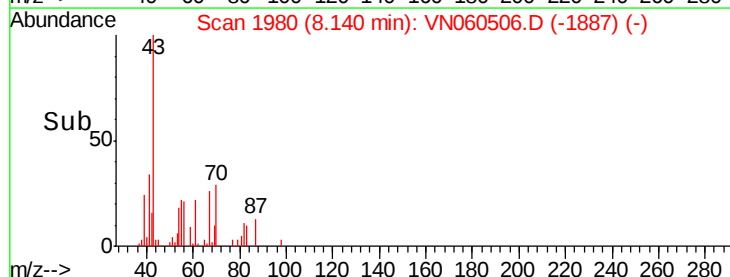
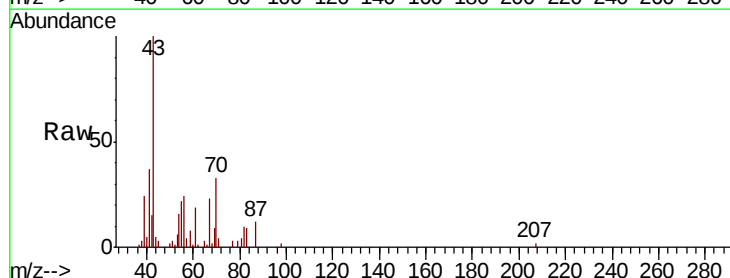
Instrument :  
MSVOA\_N  
ClientSampled :

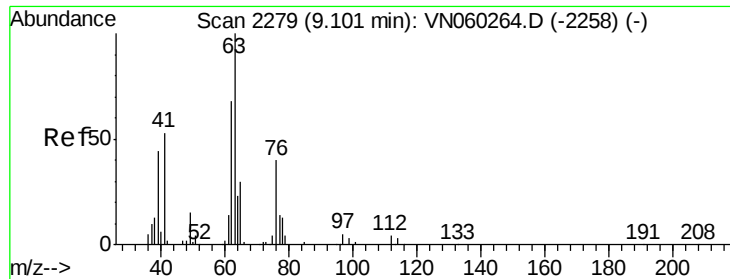
| Tot Ion: | 41    | Resp: | 337   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 0.0   | 0.0   |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |



#43  
Isopropyl Acetate  
Concen: 8.065 ug/l  
RT: 8.14 min Scan# 1980  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

| Tgt Ion: | 43    | Resp: | 45226 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 18.3  | 20.9  | 31.3# |
| 87       | 11.1  | 10.6  | 16.0  |





#45

1,2-Dichloropropane

Concen: 0.583 ug/l

RT: 9.06 min Scan# 2266

Delta R.T. -0.04 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

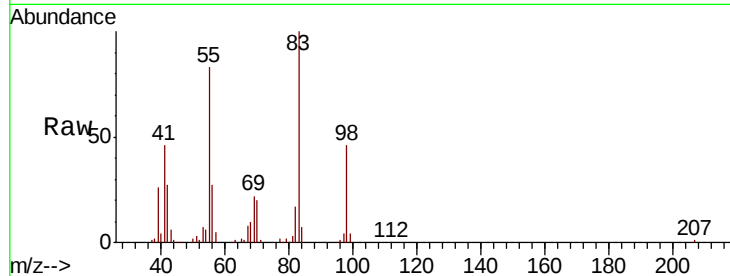
ClientSampled :

Tot Ion: 63 Resp: 1501

Ion Ratio Lower Upper

63 100

65 168.1 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

1500

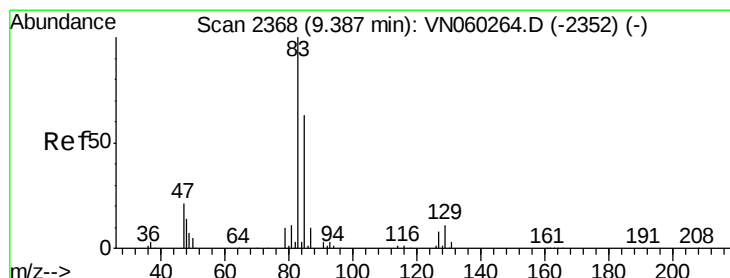
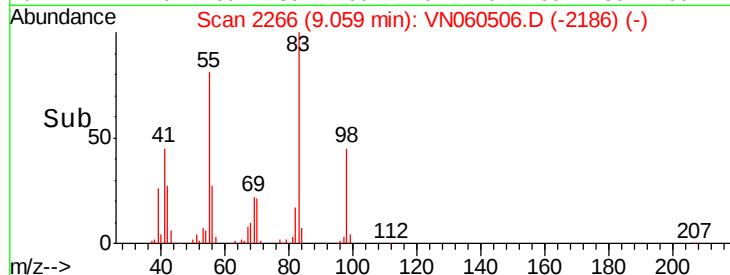
1000

500

0

9.00 9.05 9.10

Time-->



#47

Bromodichloromethane

Concen: 0.370 ug/l

RT: 9.37 min Scan# 2364

Delta R.T. -0.01 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

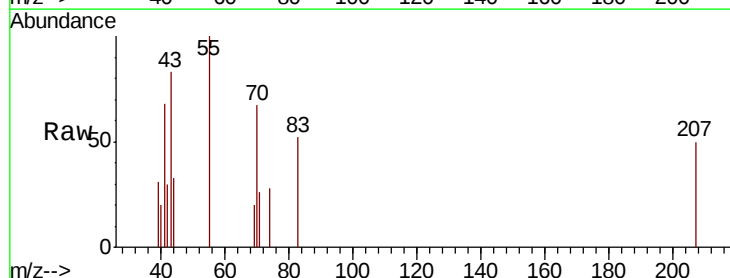
Tgt Ion: 83 Resp: 1256

Ion Ratio Lower Upper

83 100

85 0.0 50.7 76.1#

127 0.0 6.8 10.2#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

1000

800

600

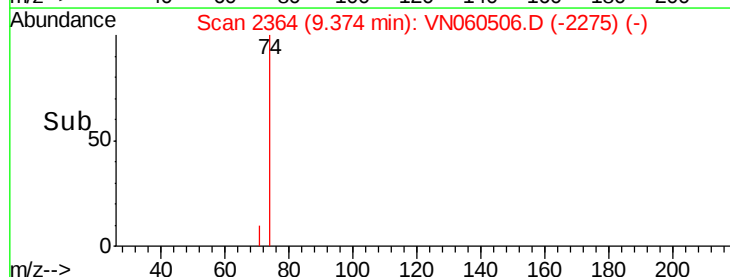
400

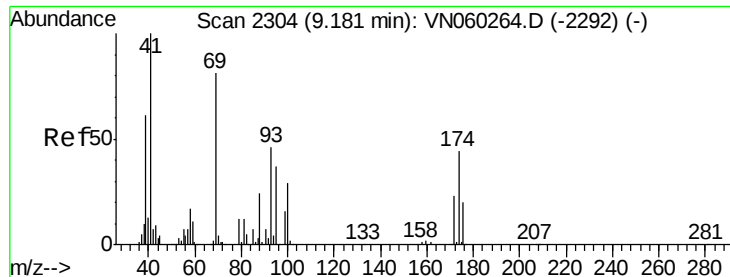
200

0

9.30 9.35 9.40

Time-->

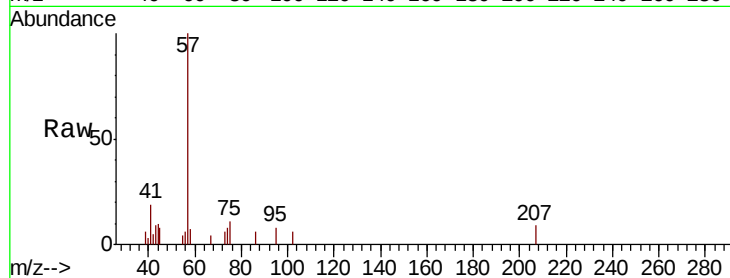




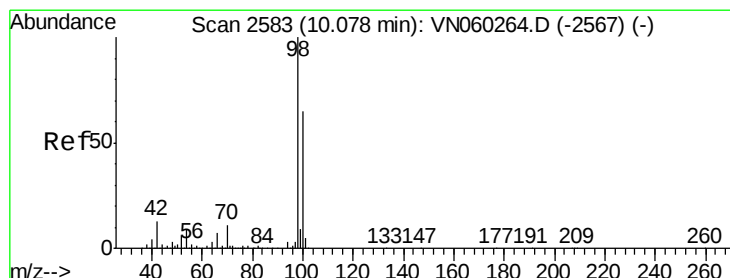
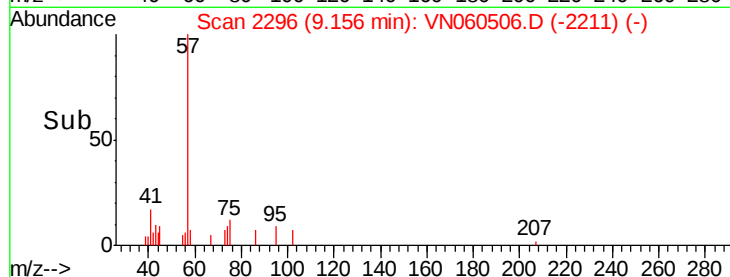
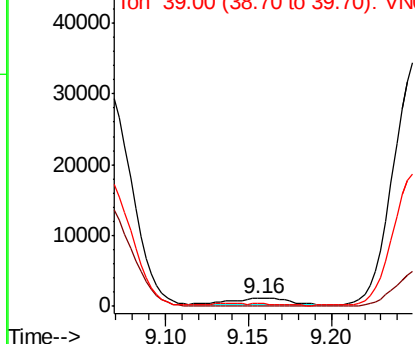
#48  
Methvl methacrylate  
Concen: 0.900 ug/l  
RT: 9.16 min Scan# 2296  
Delta R.T. -0.03 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 41 Resp: 2301  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.7 100.1#  
39 0.0 50.1 75.1#

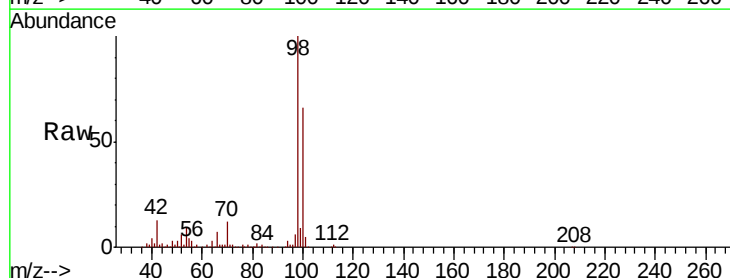


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

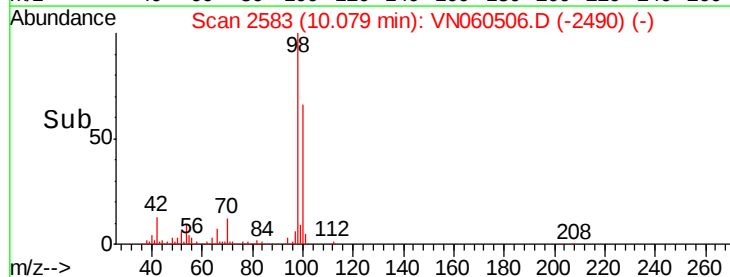
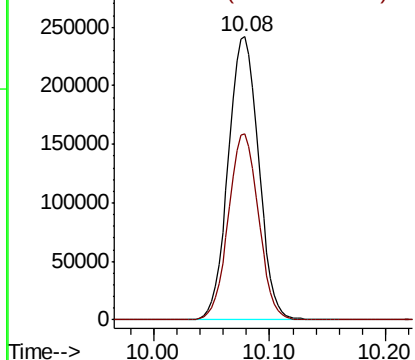


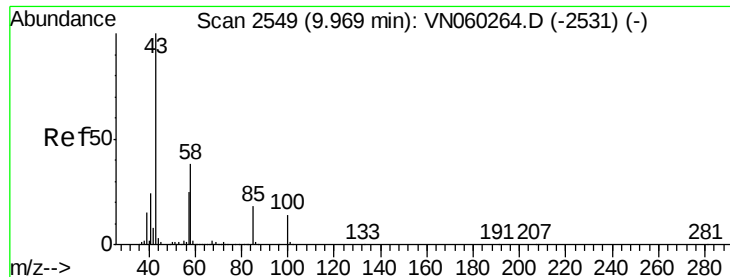
#50  
Toluene-d8  
Concen: 52.851 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 98 Resp: 440729  
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): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.236 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

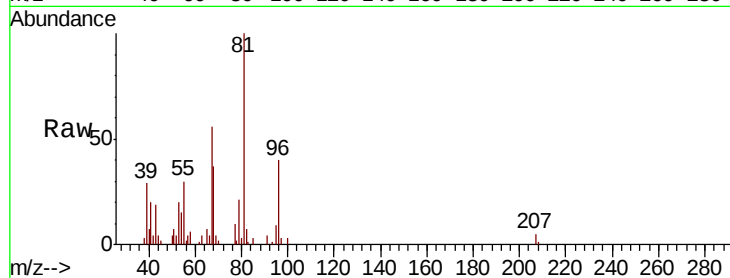
ClientSampleId :

Tot Ion: 43 Resp: 3931

Ion Ratio Lower Upper

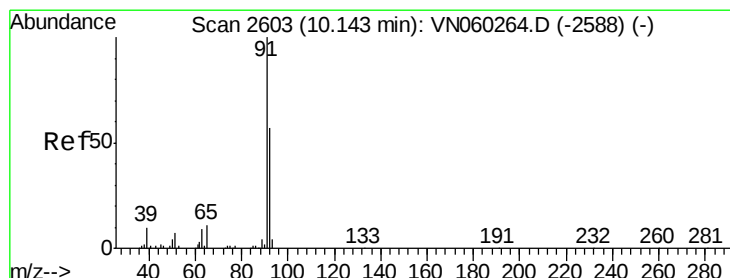
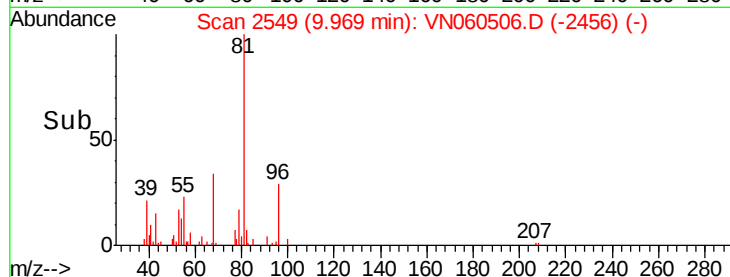
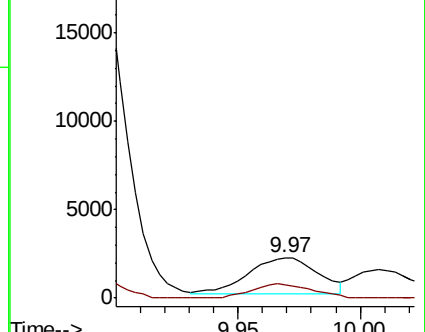
43 100

58 35.1 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060506.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060506.D (-2531) (-)



#52

Toluene

Concen: 2.244 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060506.D

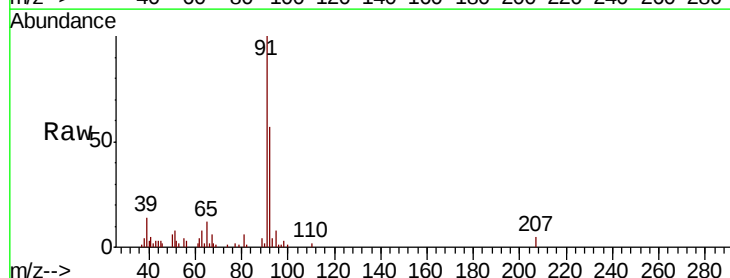
Acq: 13 Mar 2020 16:35

Tgt Ion: 92 Resp: 13877

Ion Ratio Lower Upper

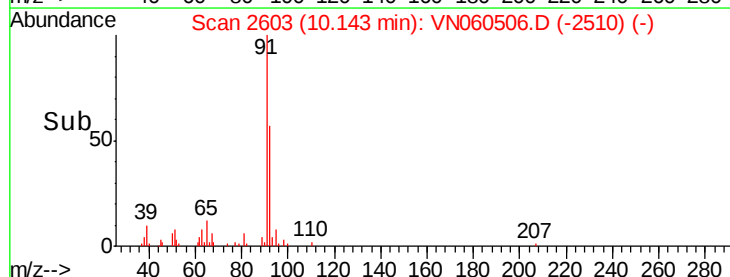
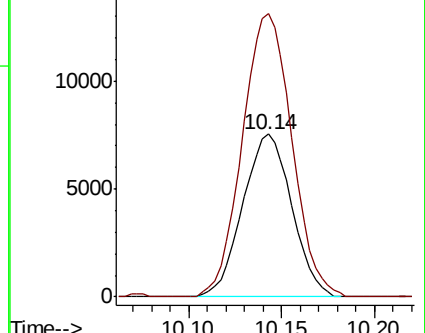
92 100

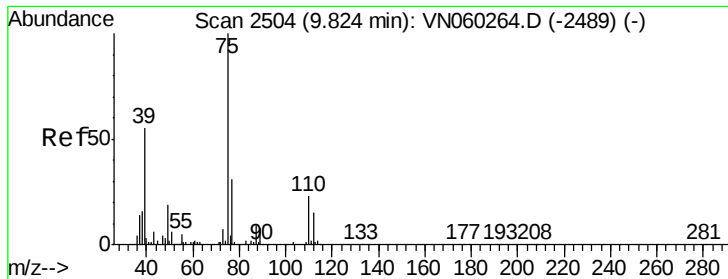
91 176.0 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN060506.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN060506.D (-2588) (-)



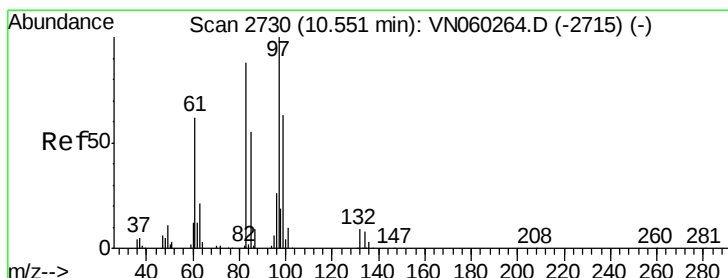
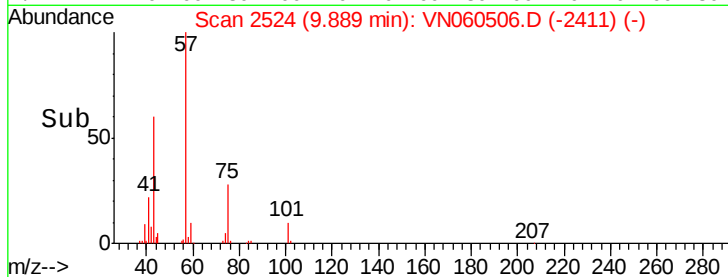
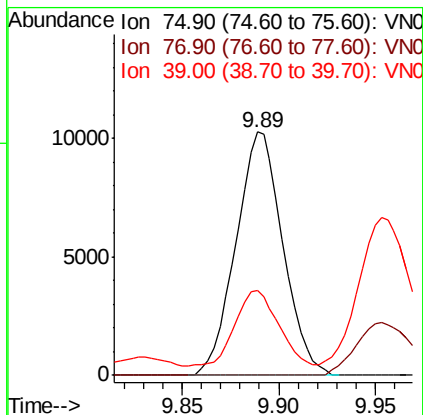
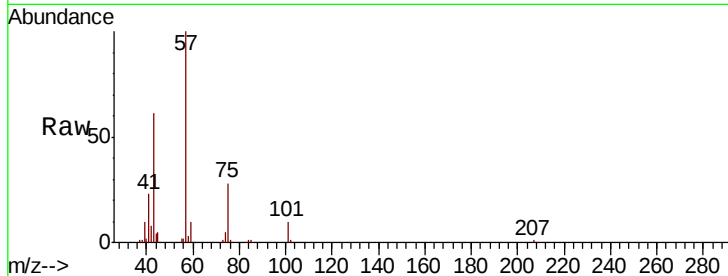


#54

cis-1,3-Dichloropropene  
 Concen: 4.010 ug/l  
 RT: 9.89 min Scan# 2524  
 Delta R.T. 0.06 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

Instrument :  
 MSVOA\_N  
 ClientSampleId :

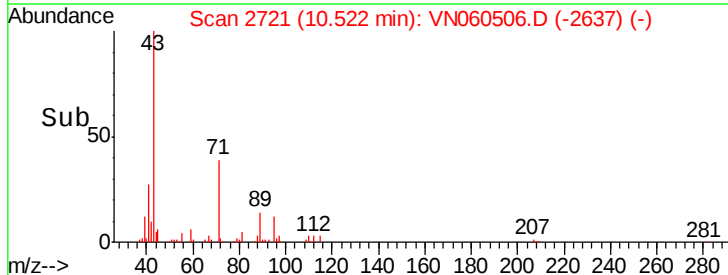
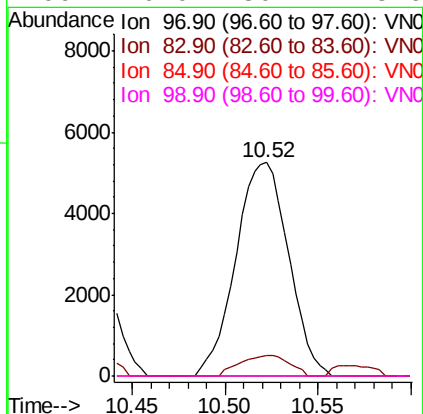
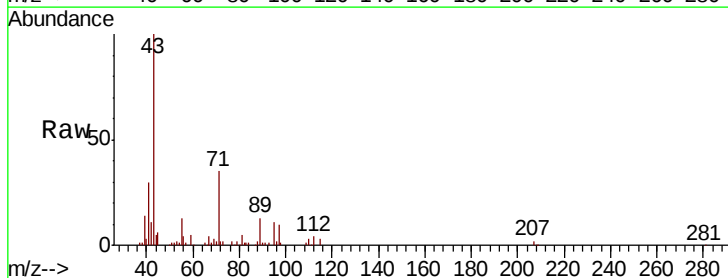
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 24.8  | 37.2# |
| 39      | 30.8  | 43.8  | 65.8# |

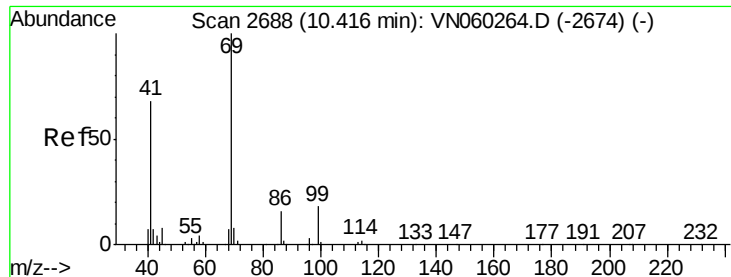


#55

1,1,2-Trichloroethane  
 Concen: 4.167 ug/l  
 RT: 10.52 min Scan# 2721  
 Delta R.T. -0.03 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 97      | 100   |       |        |
| 83      | 9.6   | 70.0  | 105.0# |
| 85      | 0.0   | 44.0  | 66.0#  |
| 99      | 0.0   | 50.4  | 75.6#  |





#56

Ethyl methacrylate

Concen: 0.977 ug/l

RT: 10.42 min Scan# 2689

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

ClientSampled :

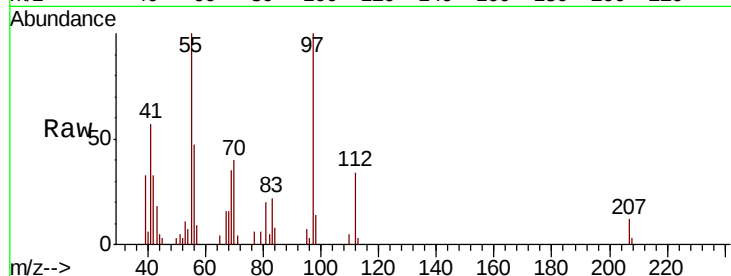
Tot Ion: 69 Resp: 3490

Ion Ratio Lower Upper

69 100

41 160.2 54.1 81.1#

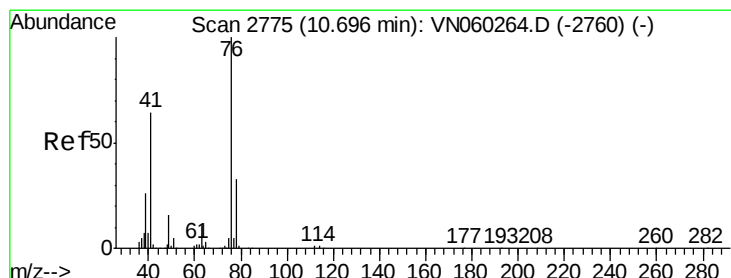
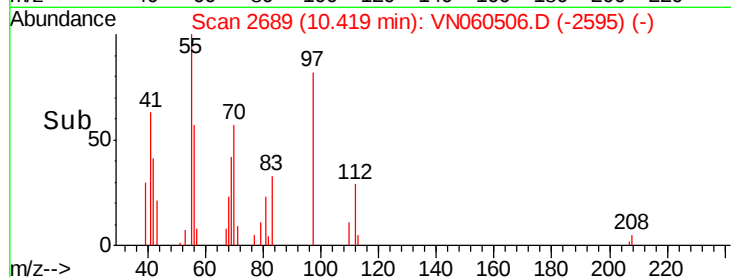
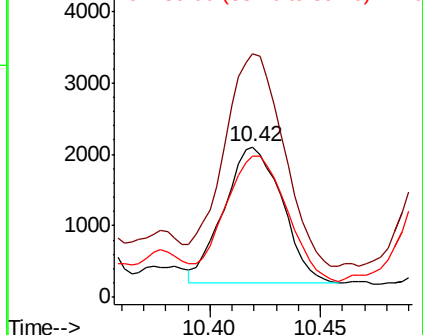
39 98.5 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN060506.D (-2688) (-)

Ion 41.00 (40.70 to 41.70): VN060506.D (-2688) (-)

Ion 39.00 (38.70 to 39.70): VN060506.D (-2688) (-)



#57

1,3-Dichloropropane

Concen: 0.655 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060506.D

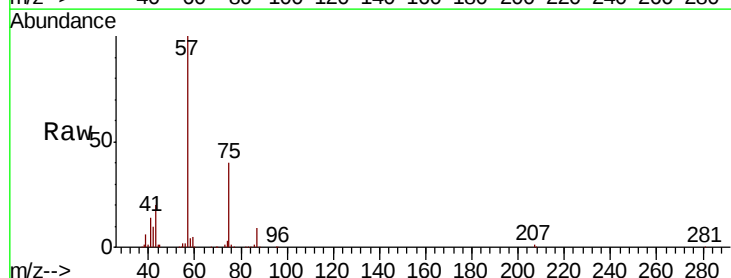
Acq: 13 Mar 2020 16:35

Tgt Ion: 76 Resp: 2655

Ion Ratio Lower Upper

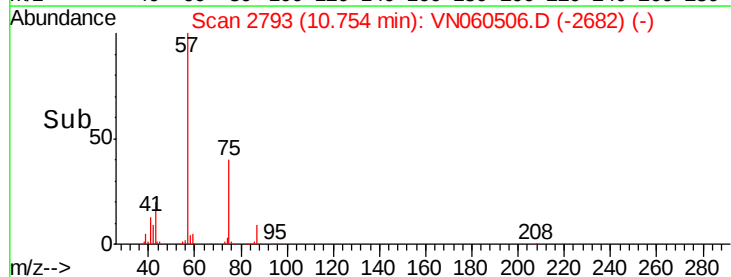
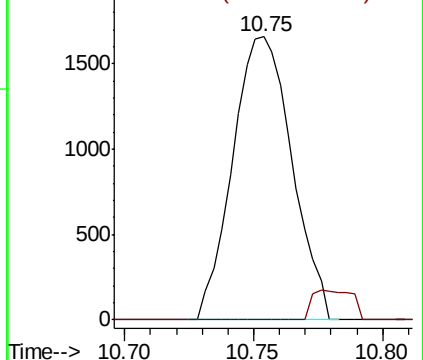
76 100

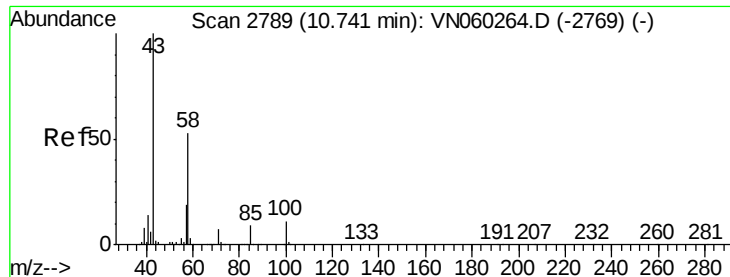
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN060506.D (-2793) (-)

Ion 77.90 (77.60 to 78.60): VN060506.D (-2793) (-)

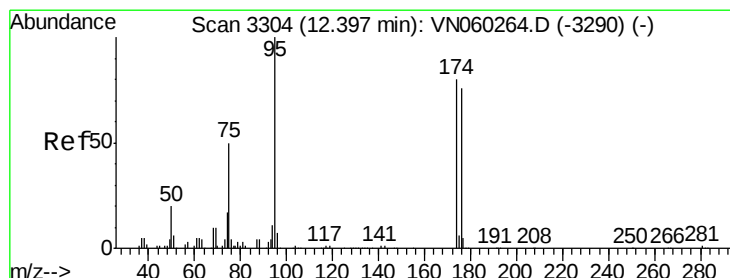
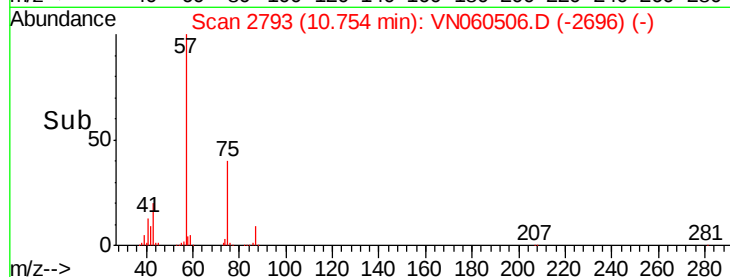
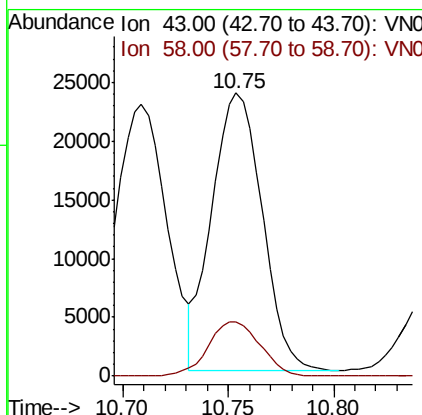
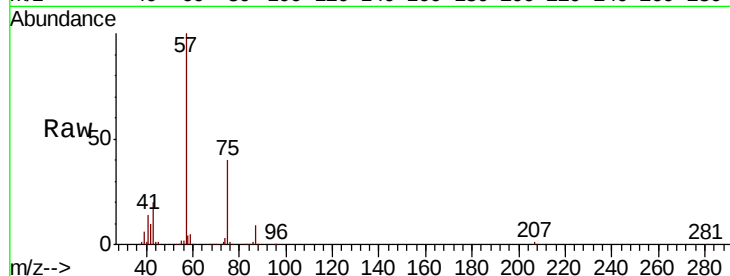




#59  
2-Hexanone  
Concen: 16.840 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

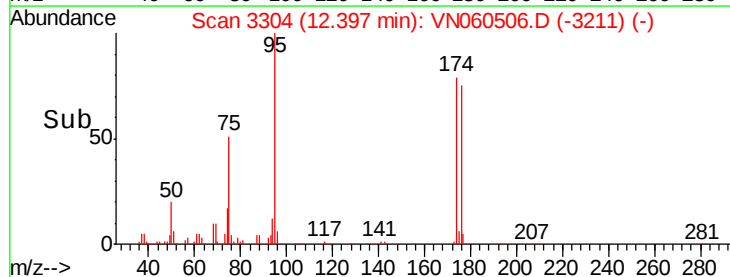
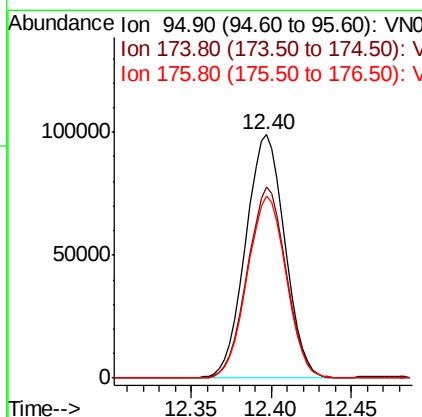
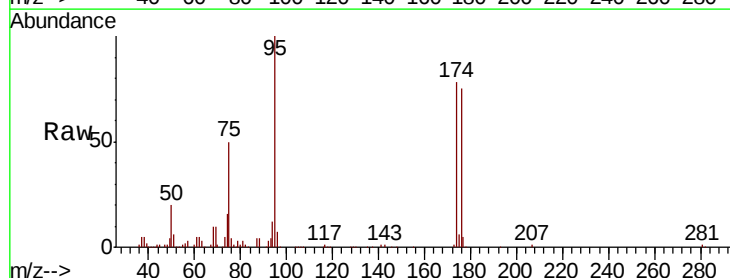
Instrument :  
MSVOA\_N  
ClientSampleId :

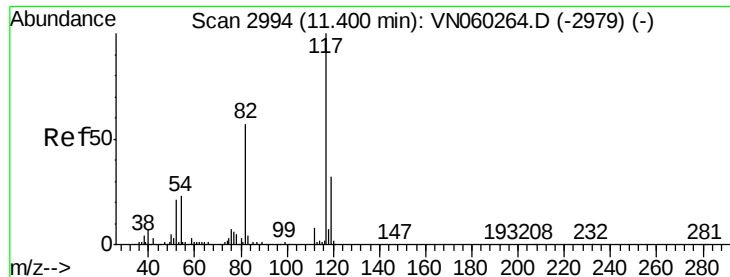
Tot Ion: 43 Resp: 39314  
Ion Ratio Lower Upper  
43 100  
58 20.2 26.5 79.5#



#62  
4-Bromofluorobenzene  
Concen: 52.237 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 95 Resp: 165126  
Ion Ratio Lower Upper  
95 100  
174 78.2 0.0 159.2  
176 75.0 0.0 153.8

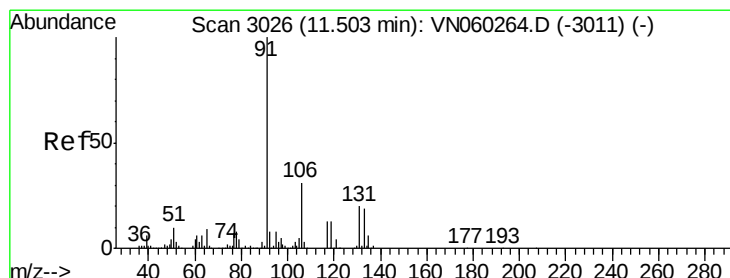
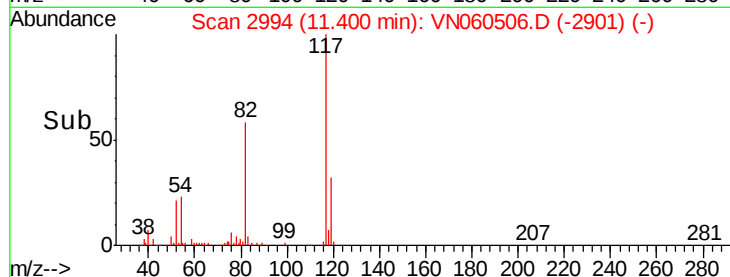
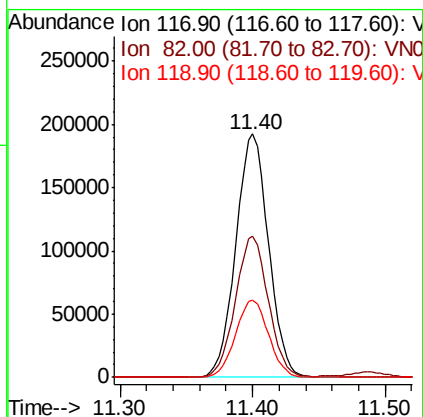
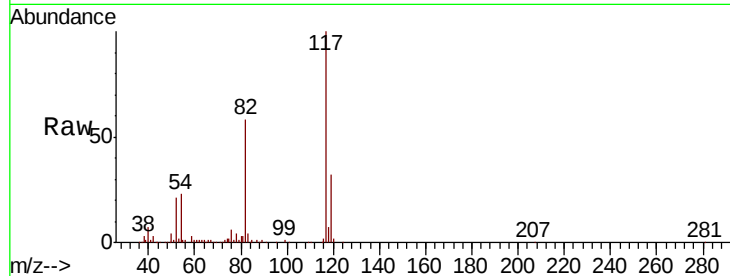




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

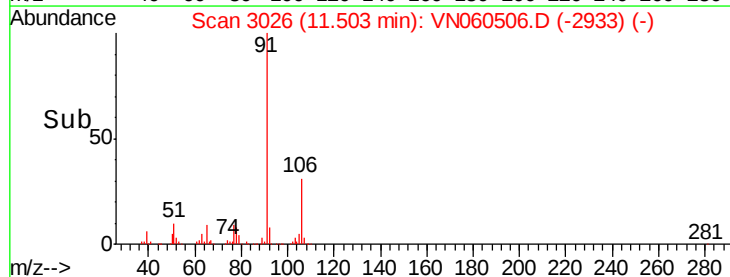
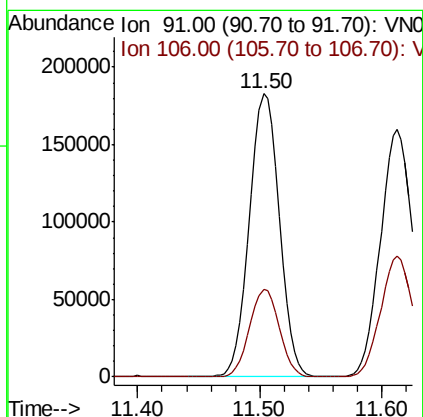
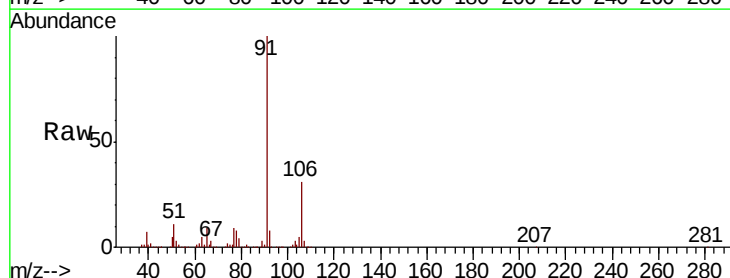
Instrument :  
MSVOA\_N  
ClientSampleId :

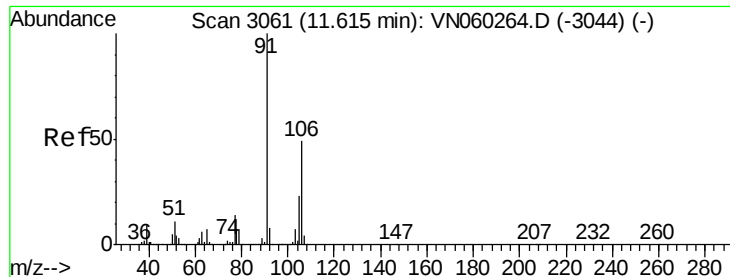
Tot Ion:117 Resp: 328957  
Ion Ratio Lower Upper  
117 100  
82 58.1 45.8 68.6  
119 32.0 25.8 38.8



#67  
Ethyl Benzene  
Concen: 25.479 ug/l  
RT: 11.50 min Scan# 3026  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion: 91 Resp: 308209  
Ion Ratio Lower Upper  
91 100  
106 30.9 24.7 37.1

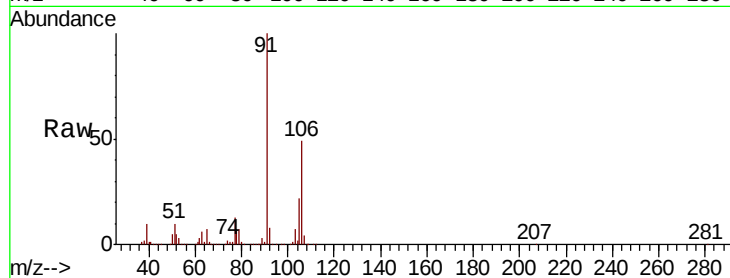




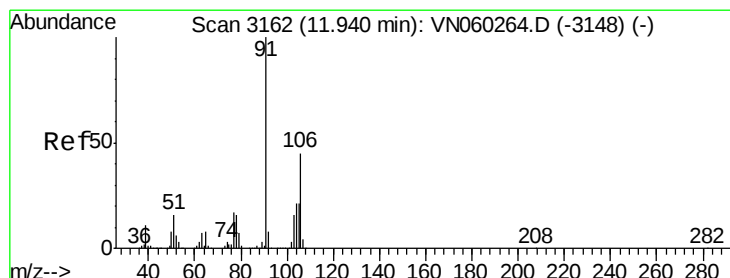
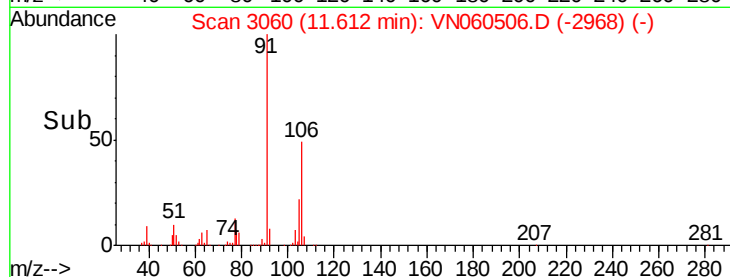
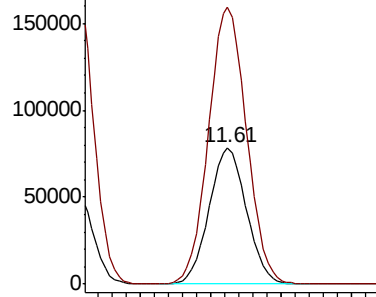
#68  
m/p-Xylenes  
Concen: 31.921 ug/l  
RT: 11.61 min Scan# 3060  
Delta R.T. -0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:106 Resp: 145683  
Ion Ratio Lower Upper  
106 100  
91 205.2 164.5 246.7

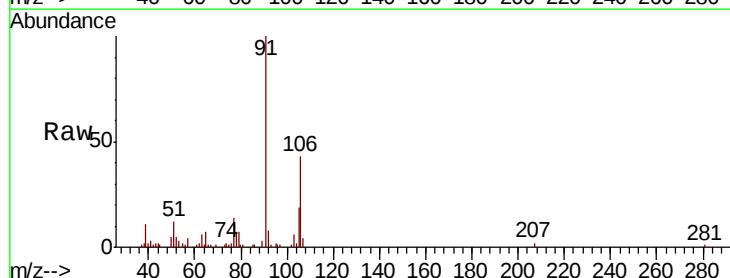


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

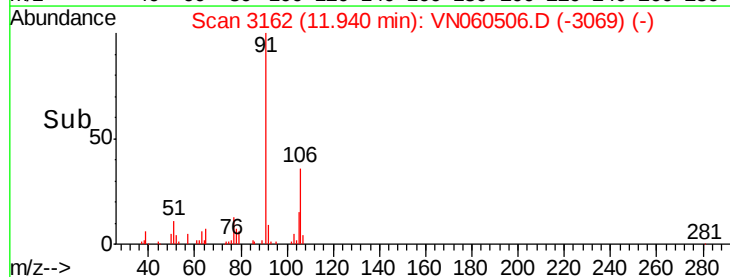
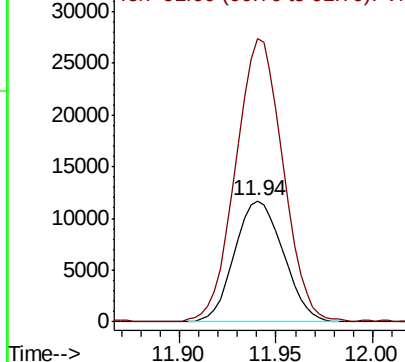


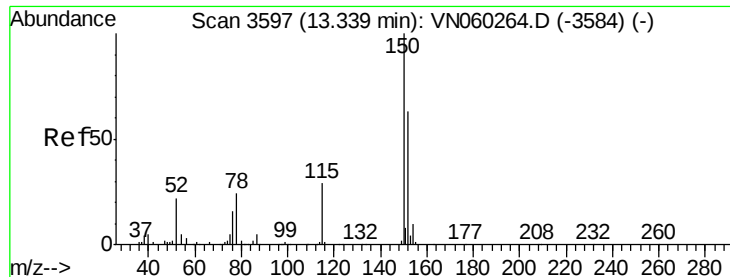
#69  
o-Xylene  
Concen: 4.716 ug/l  
RT: 11.94 min Scan# 3162  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Tgt Ion:106 Resp: 20524  
Ion Ratio Lower Upper  
106 100  
91 227.3 109.5 328.4



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



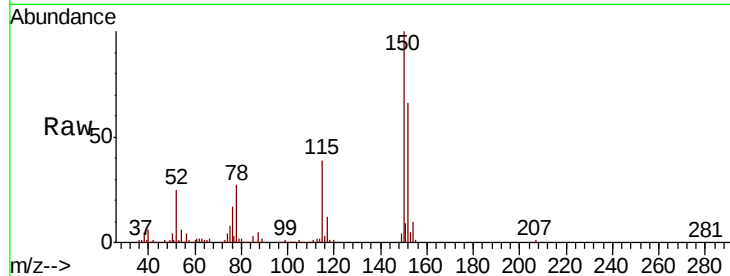


#72

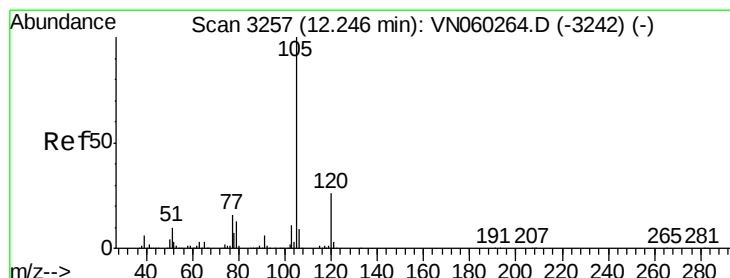
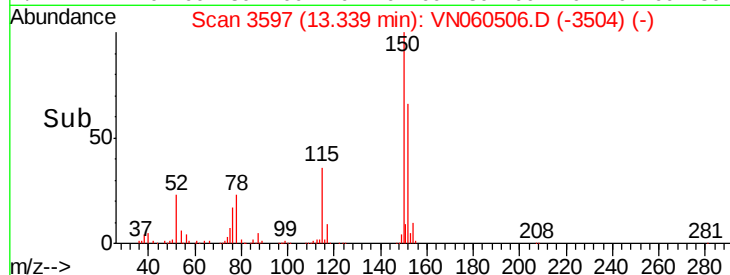
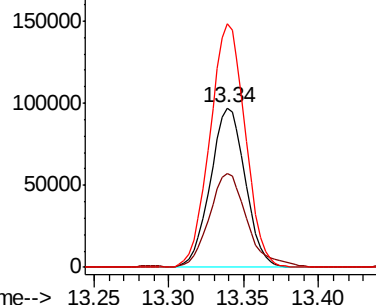
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 62.8  | 30.0  | 90.0  |
| 150     | 154.9 | 0.0   | 349.6 |



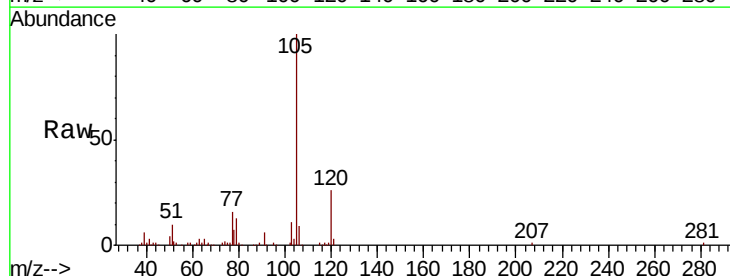
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



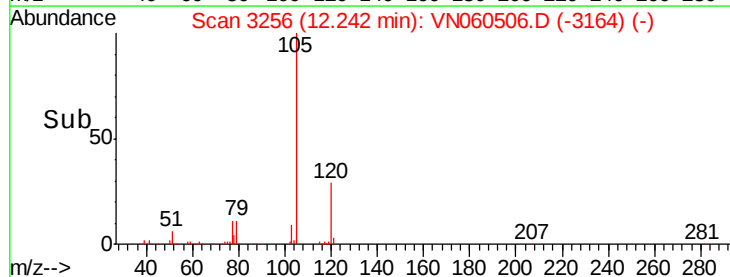
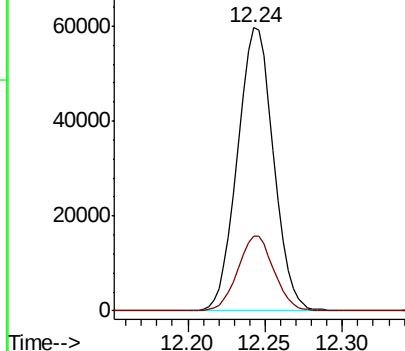
#73

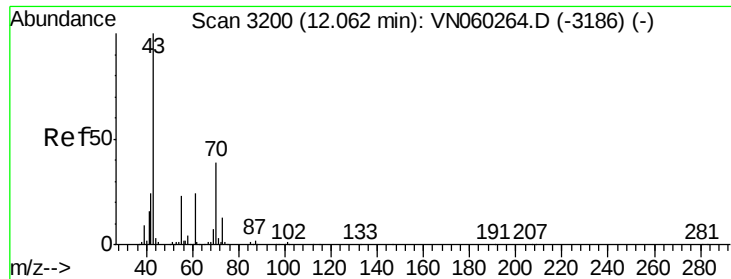
Isopropylbenzene  
Concen: 8.308 ug/l  
RT: 12.24 min Scan# 3256  
Delta R.T. -0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.4  | 13.0  | 38.9  |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 0.690 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 43 Resp: 3512

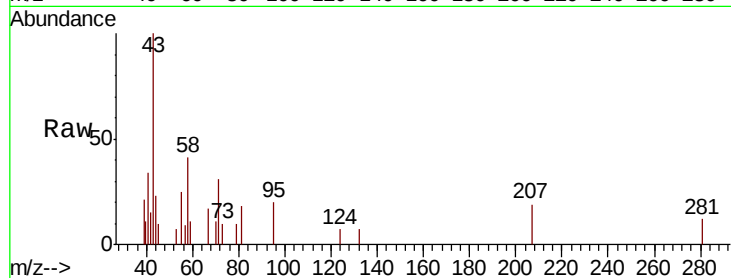
Ion Ratio Lower Upper

43 100

70 10.4 32.2 48.2#

55 29.4 18.2 27.4#

61 0.0 19.2 28.8#



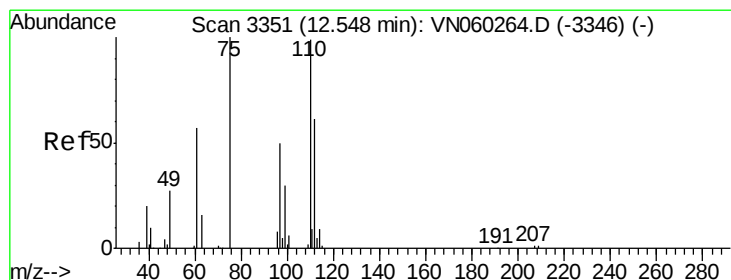
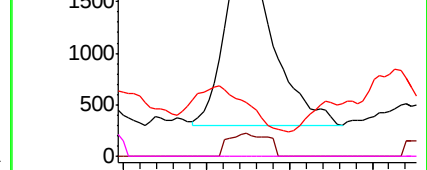
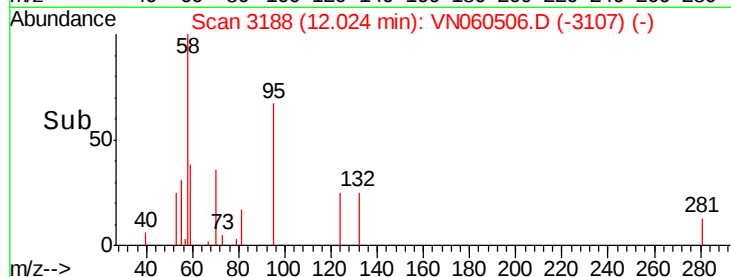
Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-3186) (-)

Ion 70.00 (69.70 to 70.70): VN060264.D (-3186) (-)

Ion 55.00 (54.70 to 55.70): VN060264.D (-3186) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-3186) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.213 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060506.D

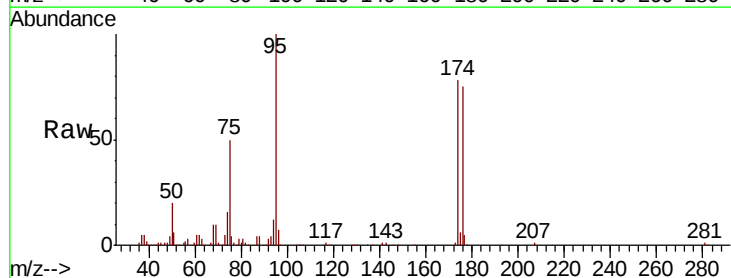
Acq: 13 Mar 2020 16:35

Tgt Ion: 75 Resp: 83492

Ion Ratio Lower Upper

75 100

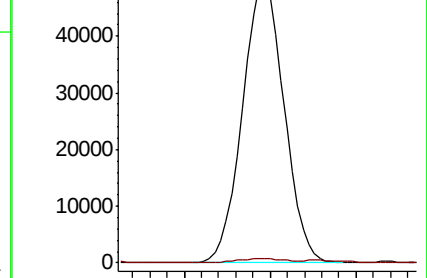
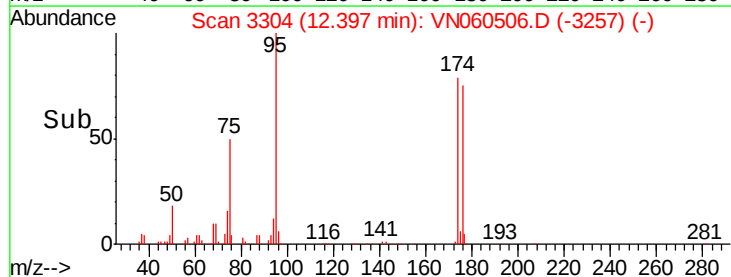
77 1.8 0.0 0.0#

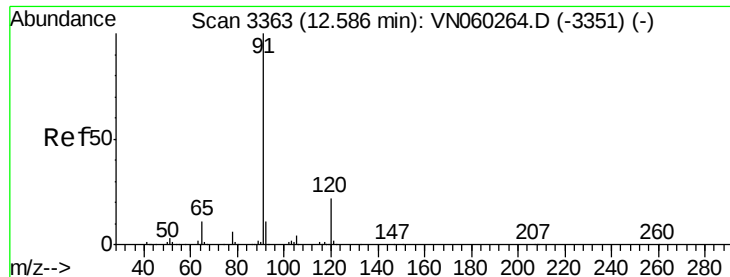


Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060264.D (-3346) (-)

Time-->





#78

n-propylbenzene

Concen: 5.850 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

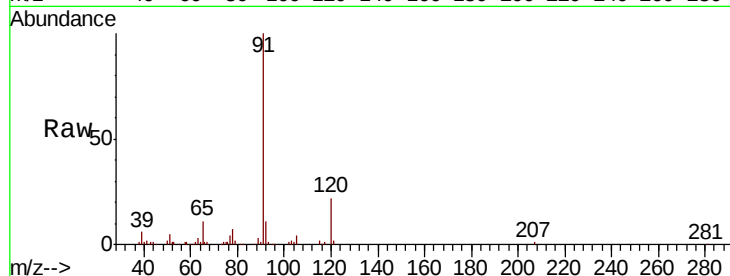
ClientSampled :

Tot Ion: 91 Resp: 79885

Ion Ratio Lower Upper

91 100

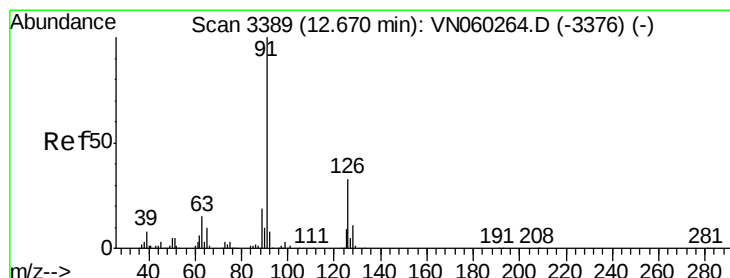
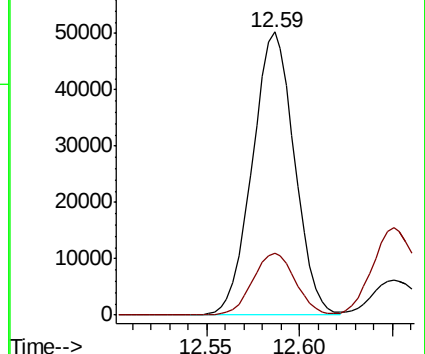
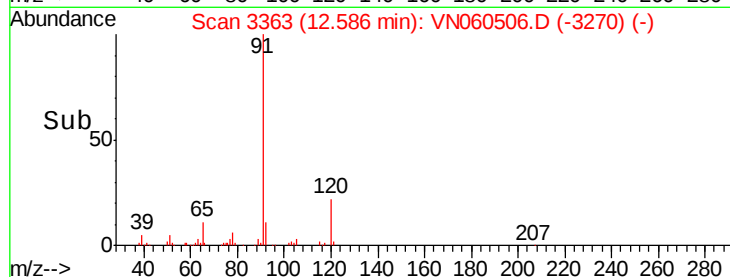
120 22.2 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN060506.D (-3351) (-)

Ion 120.00 (119.70 to 120.70): VN060506.D (-3351) (-)

Time-->



#79

2-Chlorotoluene

Concen: 0.933 ug/l

RT: 12.68 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VN060506.D

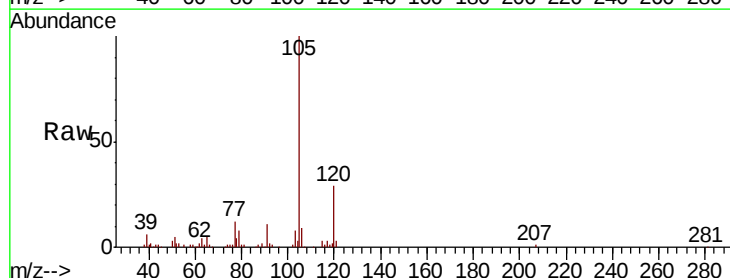
Acq: 13 Mar 2020 16:35

Tgt Ion: 91 Resp: 7492

Ion Ratio Lower Upper

91 100

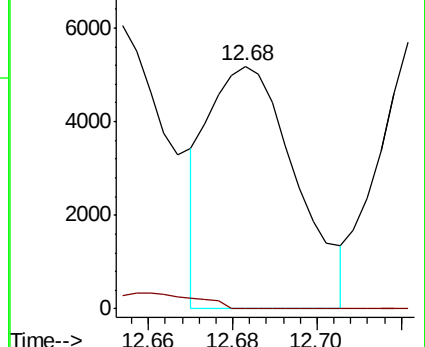
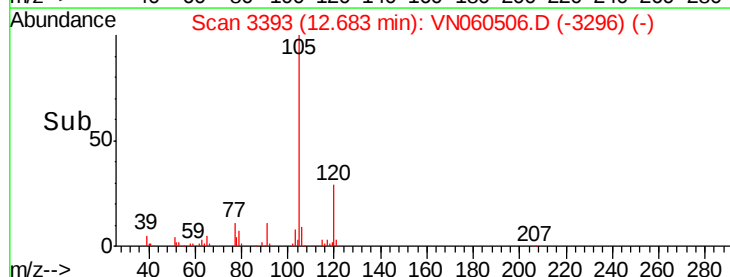
126 0.0 16.6 49.8#

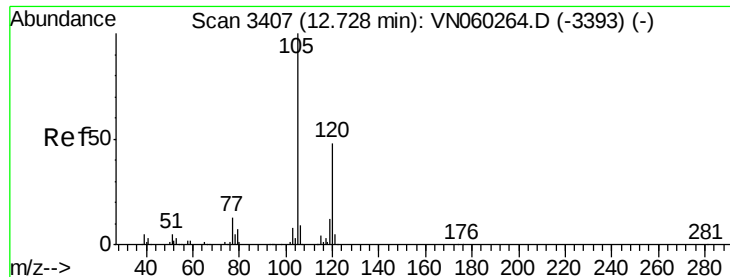


Abundance Ion 91.00 (90.70 to 91.70): VN060506.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN060506.D (-3376) (-)

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 10.528 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

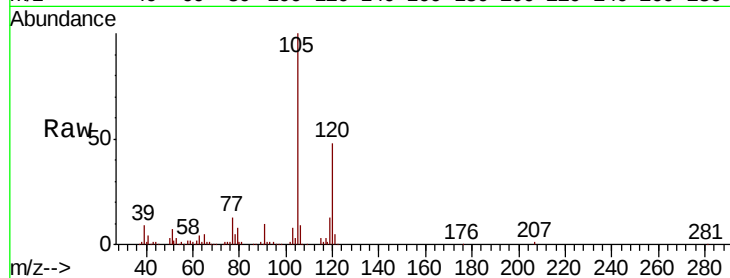
ClientSampled :

Tot Ion:105 Resp: 103262

Ion Ratio Lower Upper

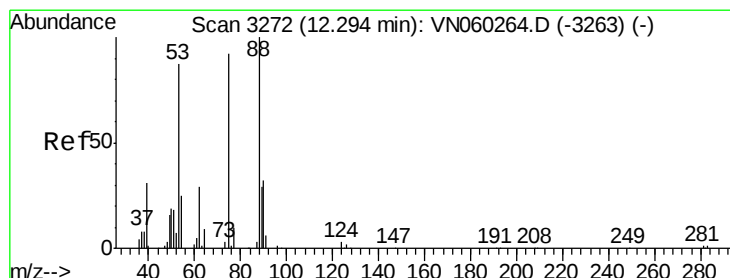
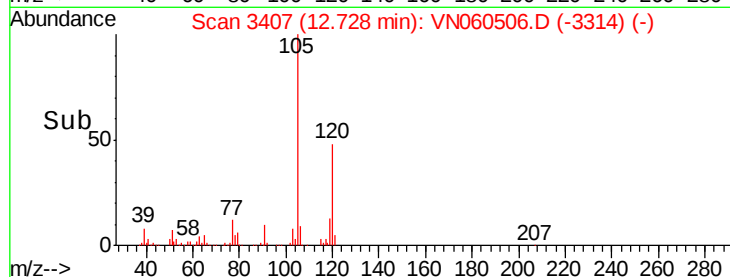
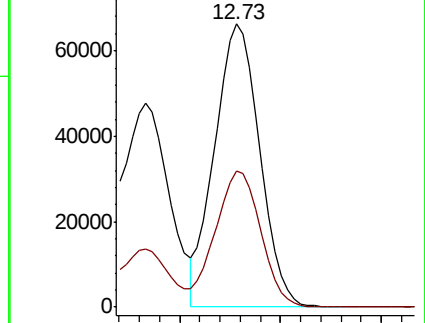
105 100

120 49.0 24.1 72.4



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: 66.838 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

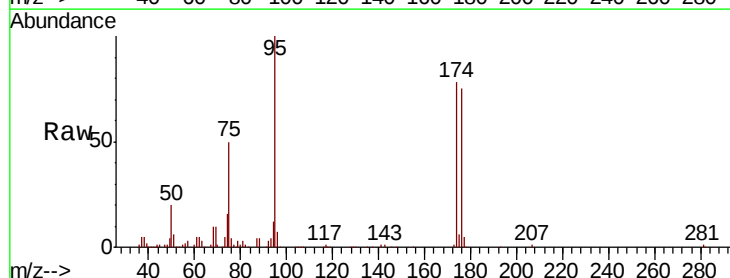
Tgt Ion: 75 Resp: 83492

Ion Ratio Lower Upper

75 100

53 0.2 73.8 110.6#

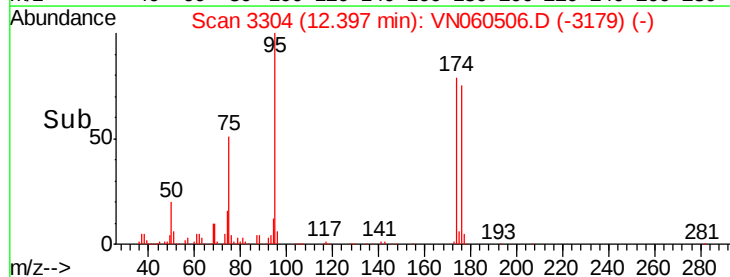
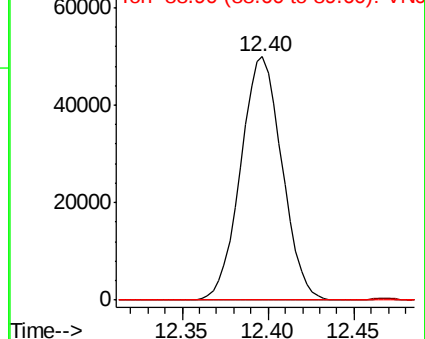
89 0.0 57.1 85.7#

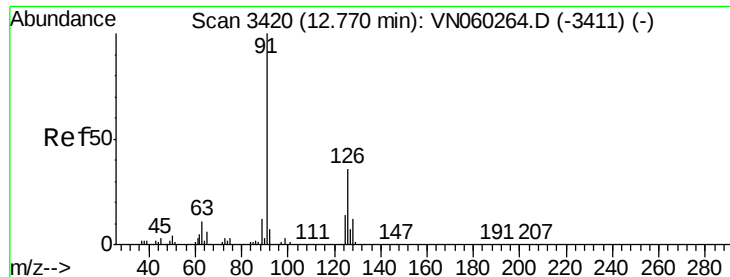


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#82

4-Chlorotoluene

Concen: 1.328 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.04 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

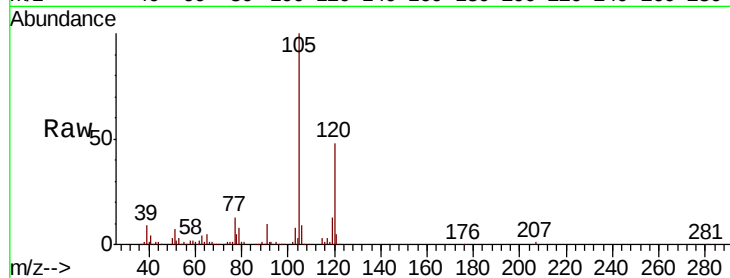
ClientSampleId :

Tot Ion: 91 Resp: 11229

Ion Ratio Lower Upper

91 100

126 0.0 16.7 50.1#



Abundance Ion 91.00 (90.70 to 91.70): VN060506.D (-3327) (-)

Ion 125.90 (125.60 to 126.60): VN060506.D (-3327) (-)

12.73

6000

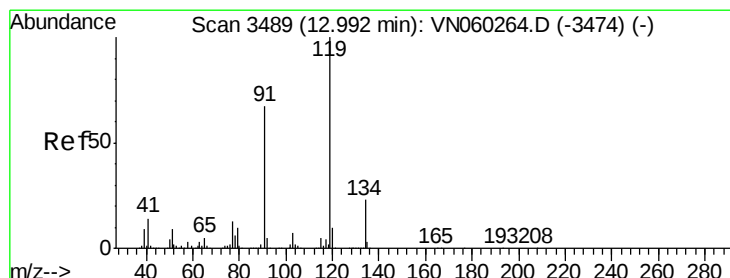
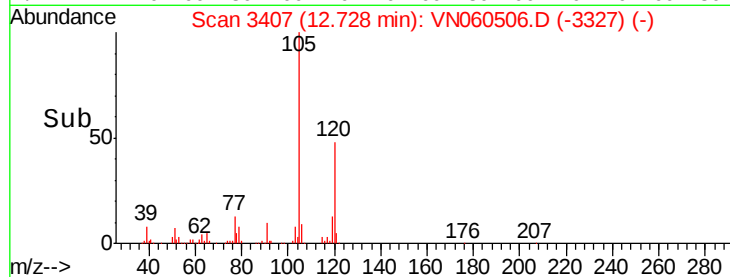
4000

2000

0

Time-->

12.70 12.75



#83

tert-Butylbenzene

Concen: 0.312 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

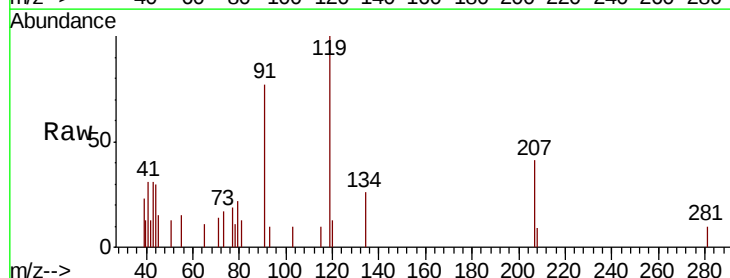
Tgt Ion: 119 Resp: 2653

Ion Ratio Lower Upper

119 100

91 87.3 33.1 99.2

134 22.2 12.4 37.0



Abundance Ion 119.00 (118.70 to 119.70): VN060506.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN060506.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN060506.D (-3396) (-)

15000

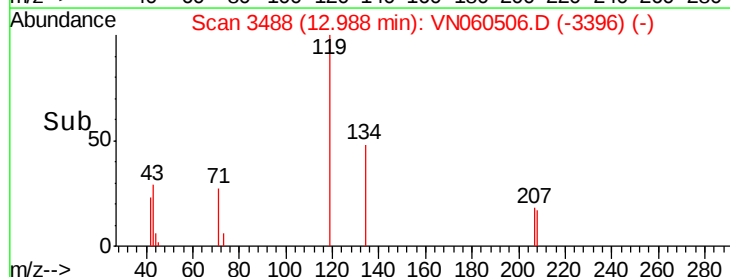
10000

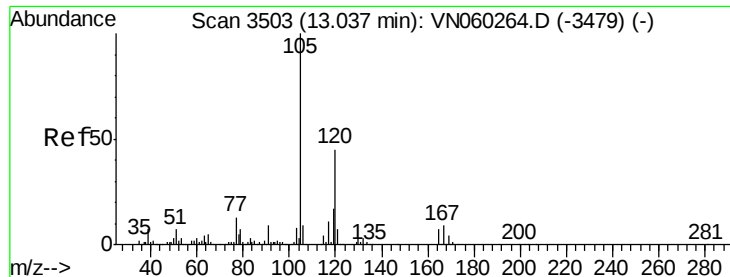
5000

0

Time-->

12.95 13.00

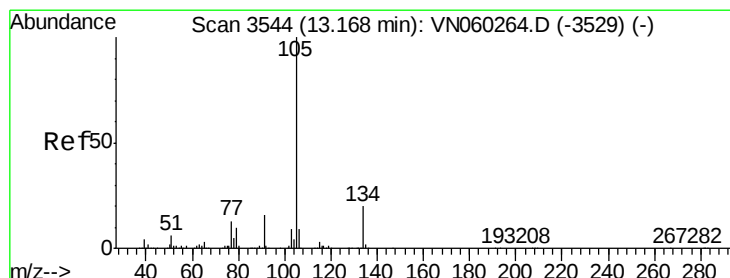
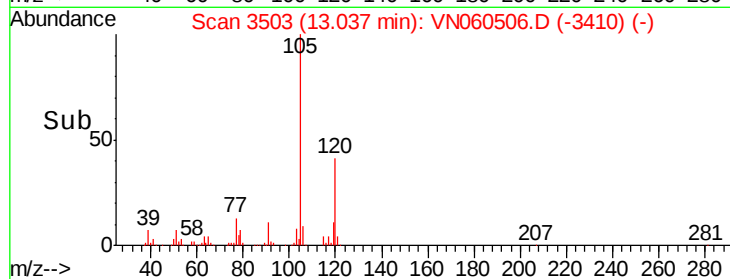
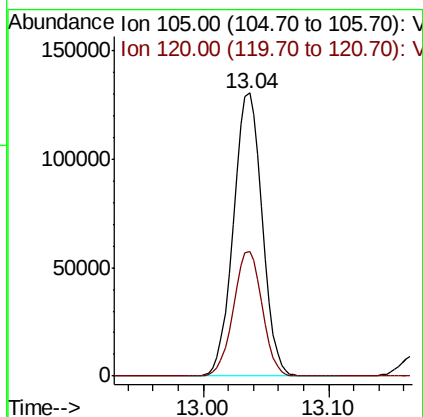
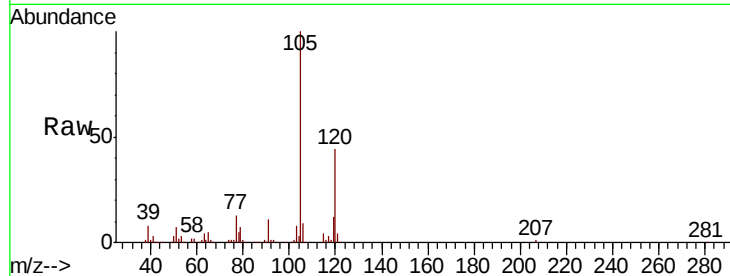




#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.978 ug/l  
 RT: 13.04 min Scan# 3503  
 Delta R.T. 0.00 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

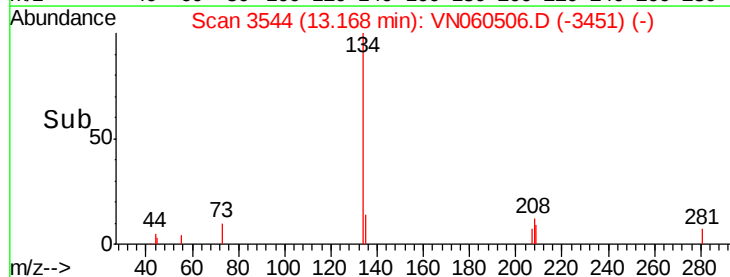
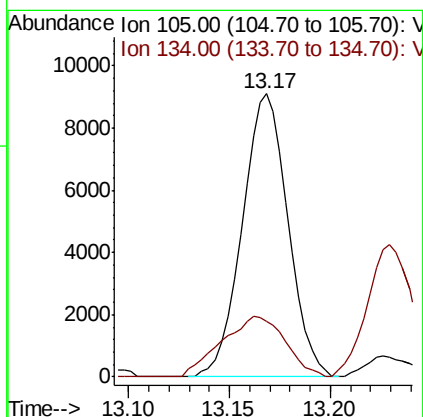
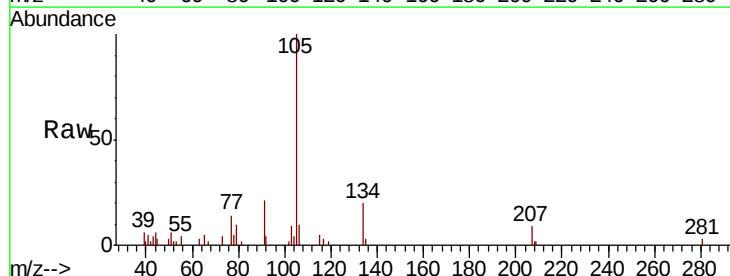
Instrument :  
 MSVOA\_N  
 ClientSampled :

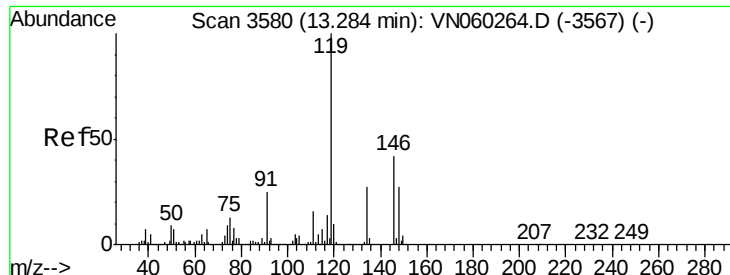
Tot Ion:105 Resp: 207673  
 Ion Ratio Lower Upper  
 105 100  
 120 44.1 22.3 66.9



#85  
 sec-Butylbenzene  
 Concen: 1.267 ug/l  
 RT: 13.17 min Scan# 3544  
 Delta R.T. 0.00 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

Tgt Ion:105 Resp: 14409  
 Ion Ratio Lower Upper  
 105 100  
 134 29.4 9.8 29.5

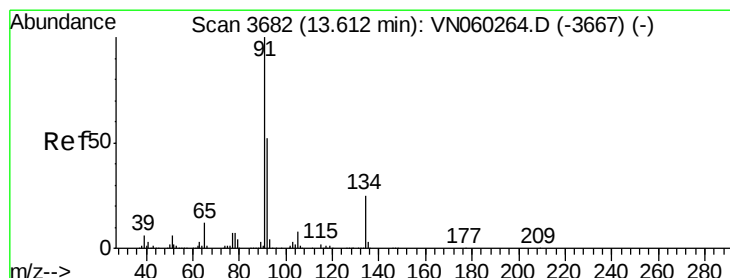
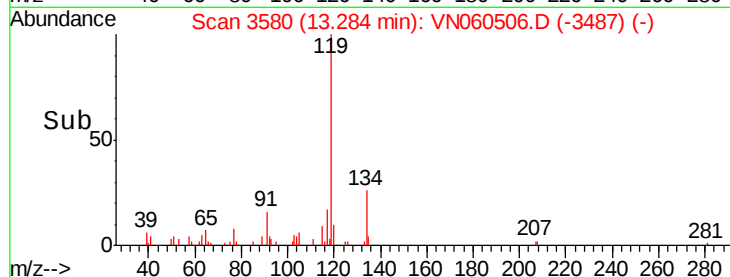
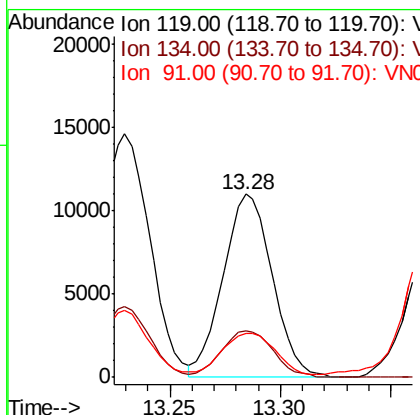
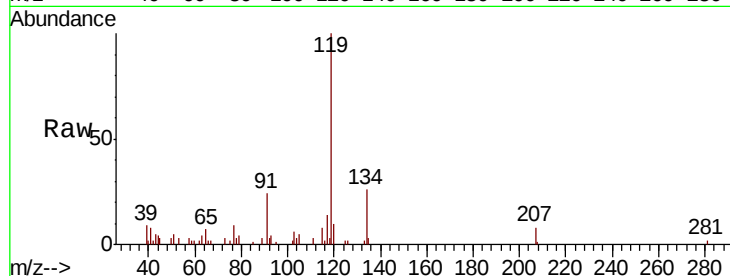




#86  
 p-Isopropyltoluene  
 Concen: 1.622 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

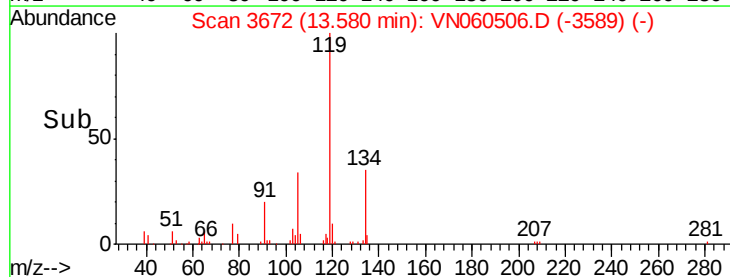
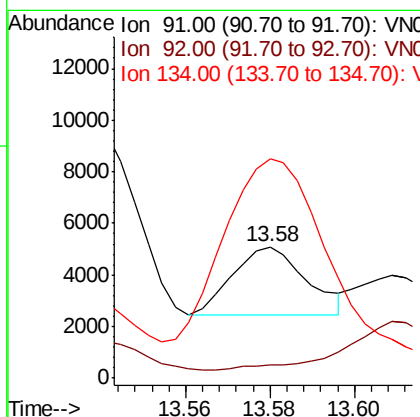
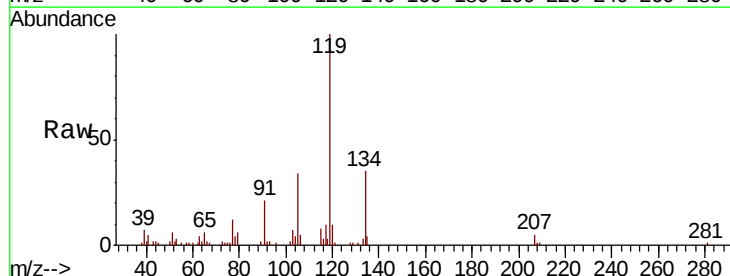
Instrument :  
 MSVOA\_N  
 ClientSampleId :

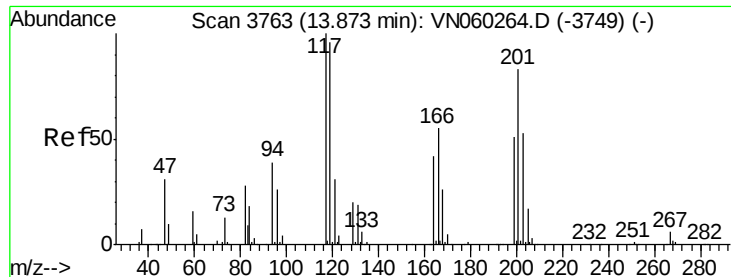
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.8  | 13.2  | 39.6  |
| 91      | 22.9  | 12.2  | 36.6  |



#89  
 n-Butylbenzene  
 Concen: 0.328 ug/l  
 RT: 13.58 min Scan# 3672  
 Delta R.T. -0.03 min  
 Lab File: VN060506.D  
 Acq: 13 Mar 2020 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 26.0  | 78.0# |
| 134     | 520.5 | 12.7  | 38.1# |





#90

Hexachloroethane

Concen: 2.392 ug/l

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA\_N

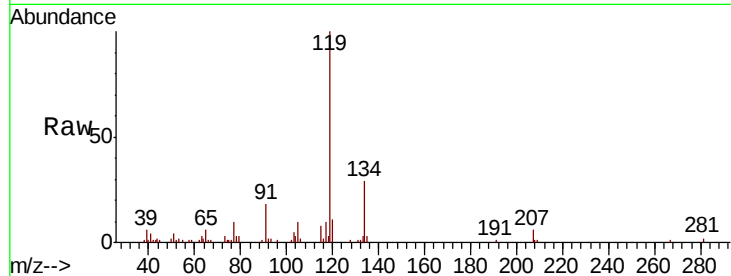
ClientSampled :

Tot Ion:117 Resp: 3644

Ion Ratio Lower Upper

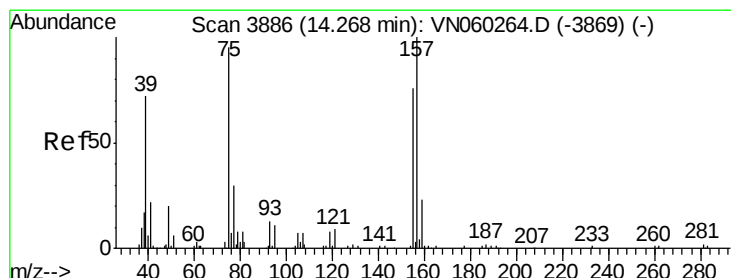
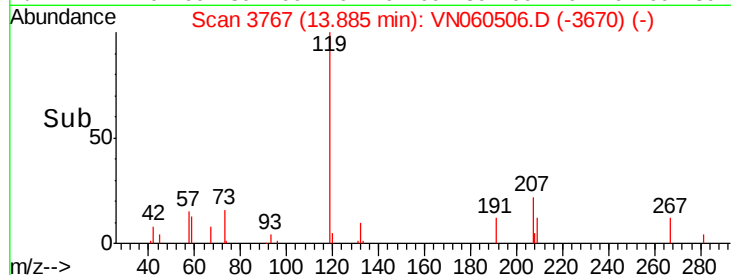
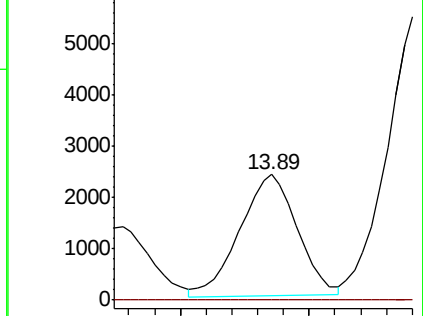
117 100

201 0.0 41.0 123.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.456 ug/l

RT: 14.25 min Scan# 3879

Delta R.T. -0.02 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

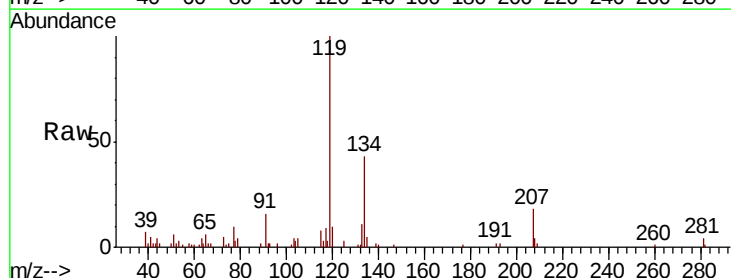
Tgt Ion: 75 Resp: 327

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

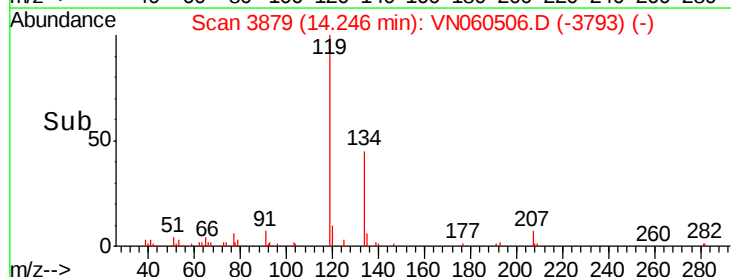
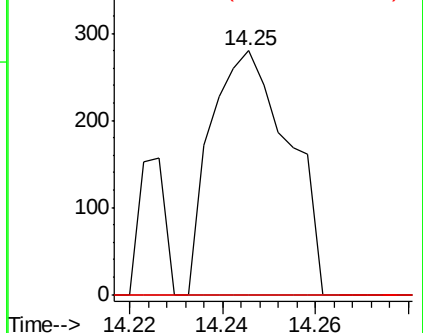
157 0.0 52.5 157.5#

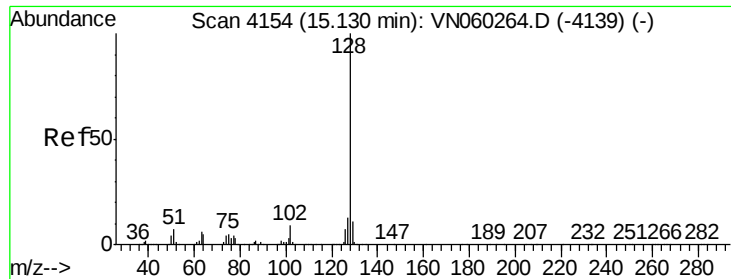


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

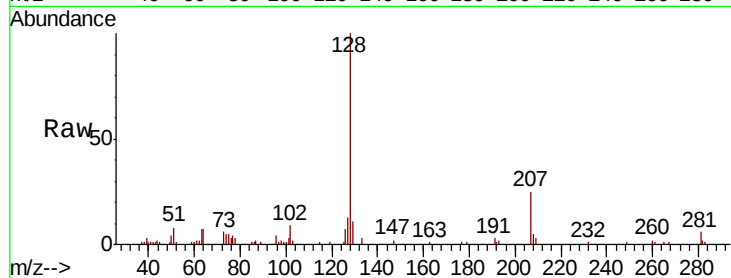




#95  
Naphthalene  
Concen: 5.160 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN060506.D  
Acq: 13 Mar 2020 16:35

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.4  | 15.6  |
| 129     | 11.4  | 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

