

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\  
 Data File : VN049943.D  
 Acq On : 20 Jul 2018 3:40  
 Operator : MD\SY  
 Sample : J4035-18  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 5-B

Quant Time: Jul 20 05:22:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071818W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 01:58:39 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 595701   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 996597   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 818903   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 277660   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 422519   | 51.60 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.20% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 373977   | 44.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.40%  |      |
| 50) Toluene-d8            | 10.09  | 98  | 1342202  | 44.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.06%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 352053   | 33.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 67.06%  |      |

## Target Compounds

|                                |       |     |         |        |        | Qvalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 3) Chloromethane               | 2.06  | 50  | 1753    | 0.22   | ug/l   | 100    |
| 5) Bromomethane                | 2.57  | 94  | 316     | Below  | Cal #  | 54     |
| 11) Tert butyl alcohol         | 4.82  | 59  | 186     | 0.32   | ug/l # | 72     |
| 12) 1,1-Dichloroethene         | 3.73  | 96  | 1712    | 0.27   | ug/l   | 89     |
| 14) Allyl chloride             | 4.50  | 41  | 1633130 | 160.41 | ug/l # | 27     |
| 16) Acetone                    | 3.83  | 43  | 19737   | 9.31   | ug/l # | 88     |
| 18) Methyl Acetate             | 4.34  | 43  | 29590   | 3.68   | ug/l   | 100    |
| 21) trans-1,2-Dichloroethene   | 5.04  | 96  | 4111    | 0.60   | ug/l # | 81     |
| 25) 2-Butanone                 | 6.86  | 43  | 4089    | 1.35   | ug/l   | 93     |
| 28) Bromochloromethane         | 7.22  | 49  | 8486    | 1.41   | ug/l # | 95     |
| 29) Tetrahydrofuran            | 7.22  | 42  | 2154    | 1.13   | ug/l # | 49     |
| 30) Chloroform                 | 7.36  | 83  | 3771    | 0.28   | ug/l   | 91     |
| 31) Cyclohexane                | 7.67  | 56  | 11336   | 1.04   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 42598   | 3.84   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 55035   | 4.64   | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.23  | 41  | 1113    | 0.29   | ug/l # | 44     |
| 43) Isopropyl Acetate          | 8.17  | 43  | 385762  | 29.02  | ug/l # | 87     |
| 47) Bromodichloromethane       | 9.40  | 83  | 2605    | 0.22   | ug/l # | 84     |
| 48) Methyl methacrylate        | 9.18  | 41  | 8459    | 1.27   | ug/l # | 22     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 2641    | 0.36   | ug/l # | 68     |
| 56) Ethyl methacrylate         | 10.55 | 69  | 100     | 2.17   | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.77 | 43  | 19698   | 3.95   | ug/l # | 56     |
| 71) Bromoform                  | 12.40 | 173 | 3313    | 0.58   | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105 | 14998   | 0.71   | ug/l   | 93     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 173290  | 33.27  | ug/l # | 100    |
| 78) n-propylbenzene            | 12.59 | 91  | 41365   | 1.73   | ug/l   | 98     |
| 79) 2-Chlorotoluene            | 12.59 | 91  | 41365   | 2.81   | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 173290  | 104.03 | ug/l # | 13     |
| 82) 4-Chlorotoluene            | 12.59 | 91  | 41365   | 2.80   | ug/l # | 40     |
| 85) sec-Butylbenzene           | 13.17 | 105 | 17635   | 0.90   | ug/l   | 87     |
| 86) p-Isopropyltoluene         | 13.44 | 119 | 6390    | 0.38   | ug/l   | 96     |
| 89) n-Butylbenzene             | 13.62 | 91  | 10946   | 0.79   | ug/l # | 80     |
| 90) Hexachloroethane           | 13.89 | 117 | 7729    | 2.06   | ug/l # | 4      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75  | 436     | 0.45   | ug/l # | 1      |

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ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
5-B

Quant Time: Jul 20 05:22:26 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071818W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 01:58:39 2018  
Response via : Initial Calibration

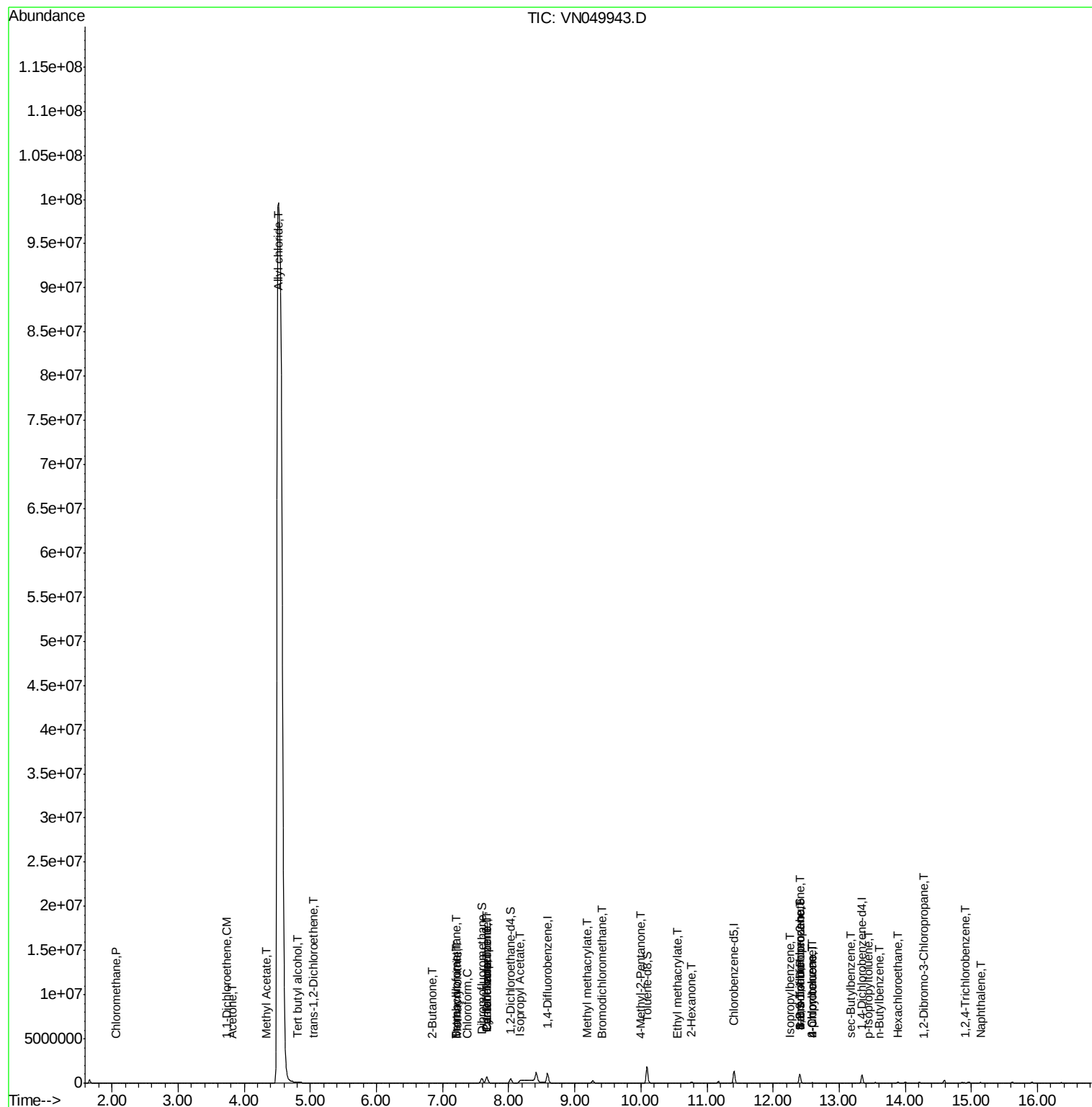
| Internal Standards         | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|----------------------------|-------|------|----------|------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 168      | 3.50 | ug/l # | 1        |
| 95) Naphthalene            | 15.14 | 128  | 39627    | 7.23 | ug/l   | 96       |

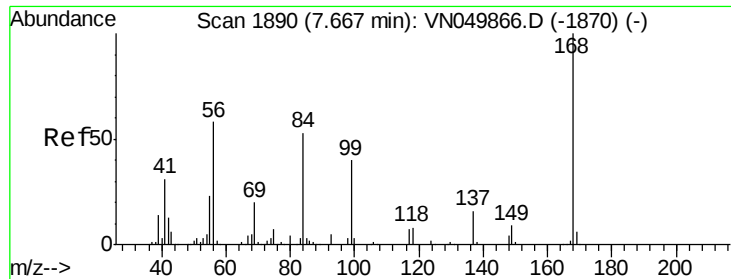
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

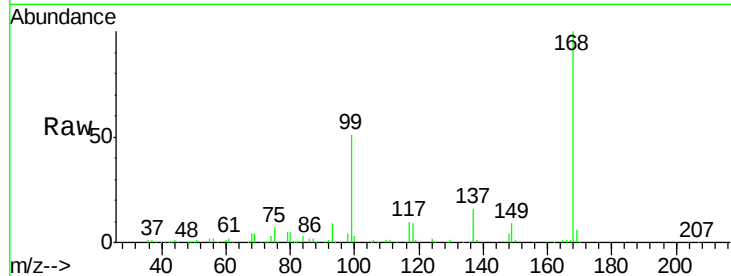
5-B

Tot Ion:168 Resp: 595701

Ion Ratio Lower Upper

168 100

99 51.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

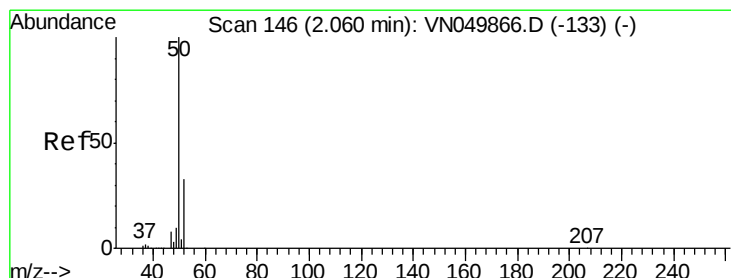
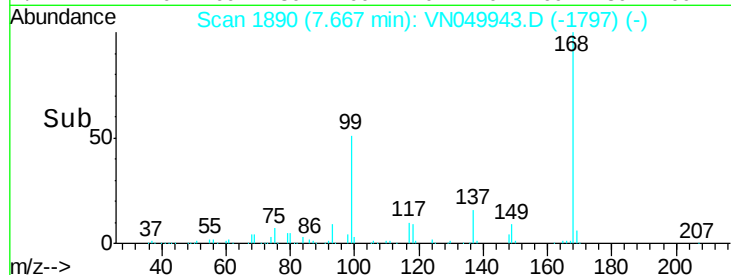
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 146

Delta R.T. -0.00 min

Lab File: VN049943.D

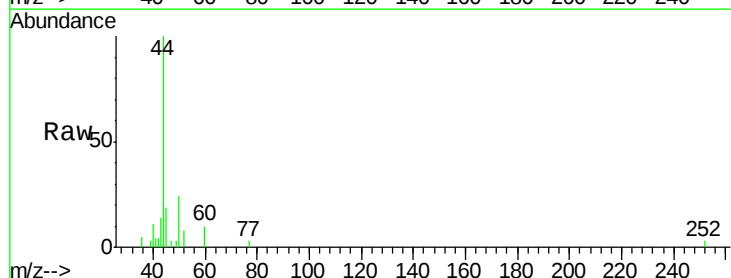
Acq: 20 Jul 2018 3:40

Tgt Ion: 50 Resp: 1753

Ion Ratio Lower Upper

50 100

52 32.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

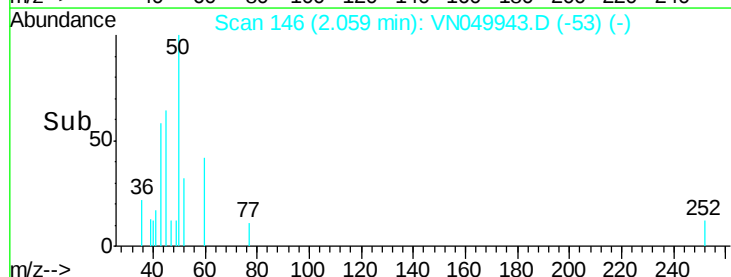
1500

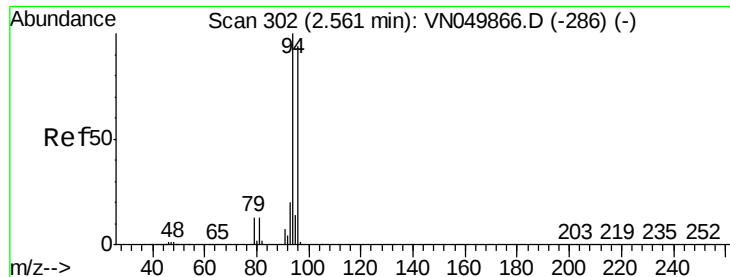
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

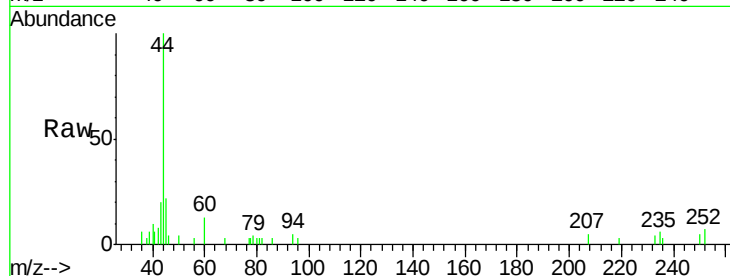
5-B

Tot Ion: 94 Resp: 316

Ion Ratio Lower Upper

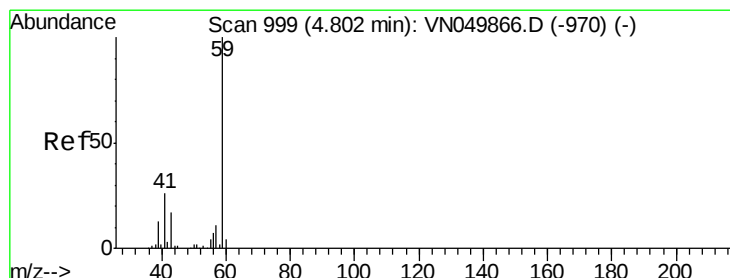
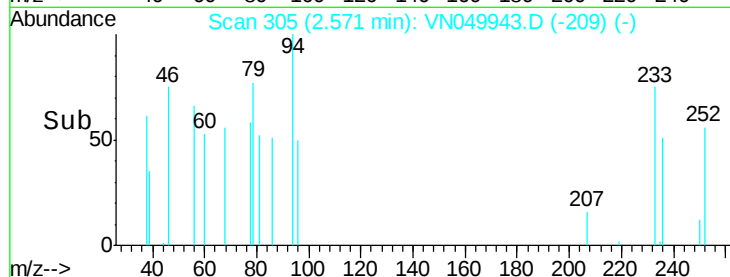
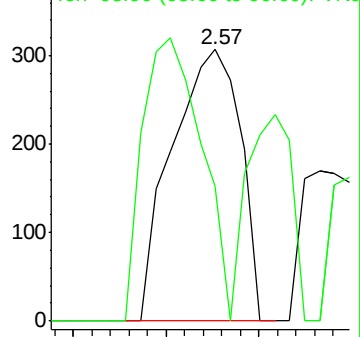
94 100

96 49.8 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.32 ug/l

RT: 4.82 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VN049943.D

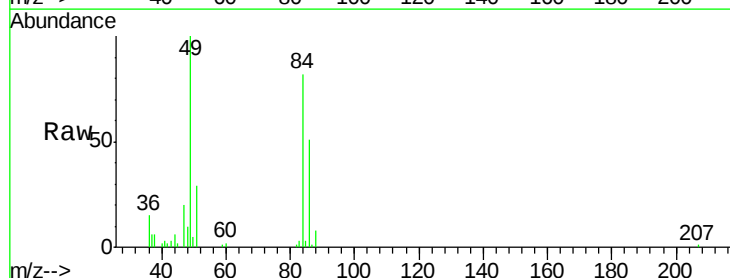
Acq: 20 Jul 2018 3:40

Tgt Ion: 59 Resp: 186

Ion Ratio Lower Upper

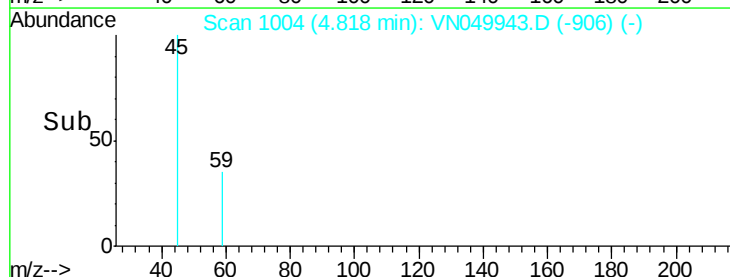
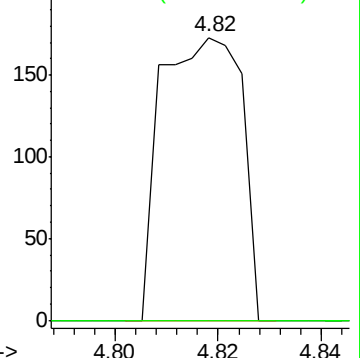
59 100

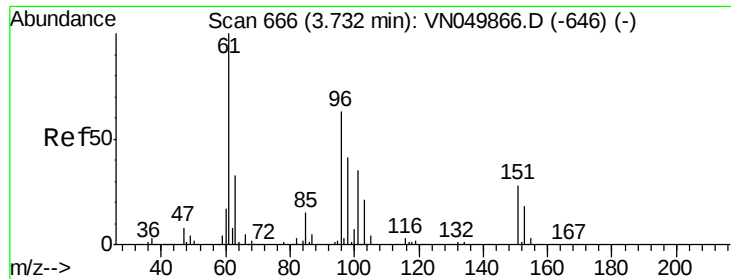
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

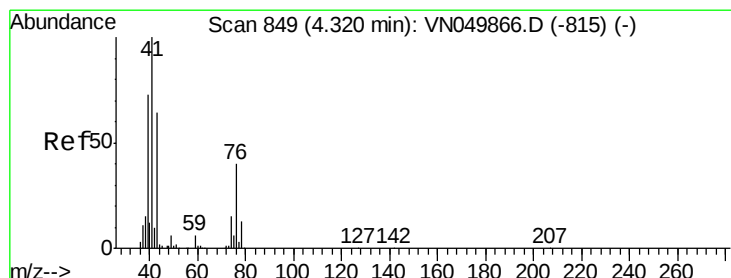
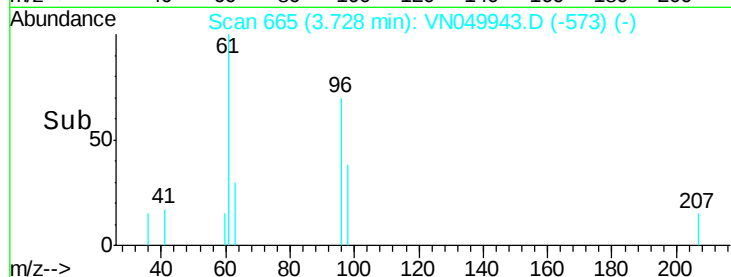
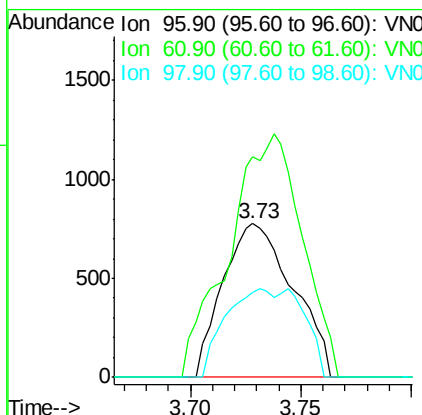
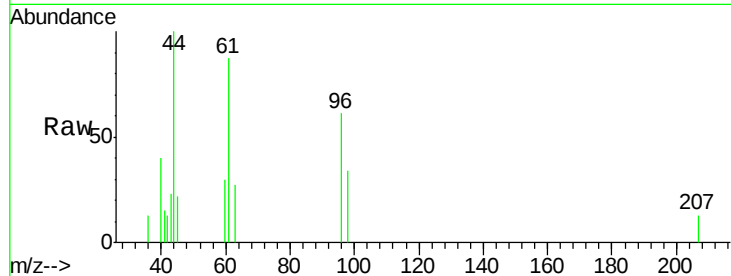




#12  
 1,1-Dichloroethene  
 Concen: 0.27 ug/l  
 RT: 3.73 min Scan# 665  
 Delta R.T. -0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

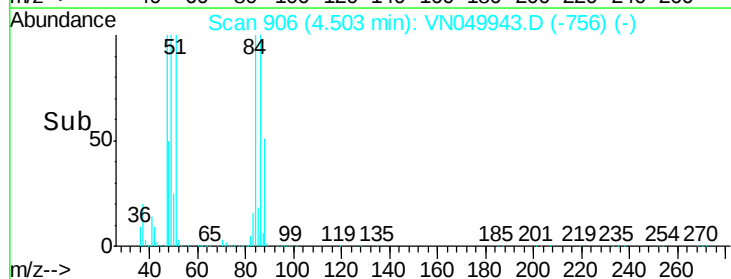
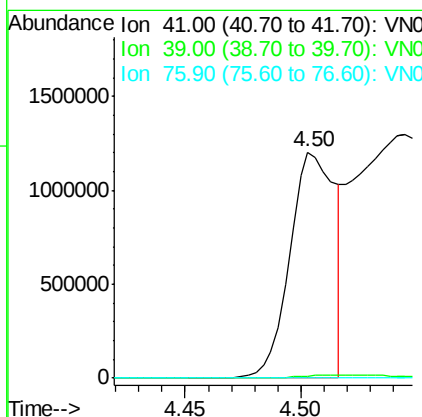
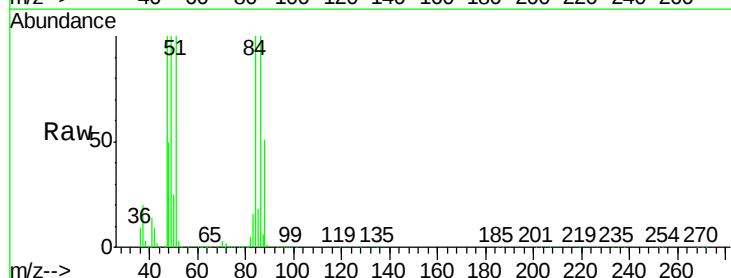
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 5-B

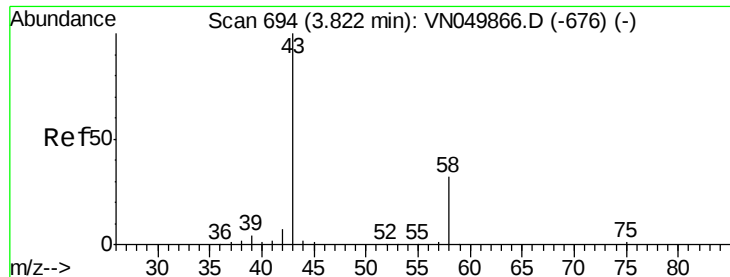
Tot Ion: 96 Resp: 1712  
 Ion Ratio Lower Upper  
 96 100  
 61 143.8 126.5 189.7  
 98 55.3 51.0 76.6



#14  
 Allyl chloride  
 Concen: 160.41 ug/l  
 RT: 4.50 min Scan# 906  
 Delta R.T. 0.18 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Tgt Ion: 41 Resp: 1633130  
 Ion Ratio Lower Upper  
 41 100  
 39 3.7 53.2 79.8#  
 76 0.0 29.0 43.6#





#16

Acetone

Concen: 9.31 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampleId :

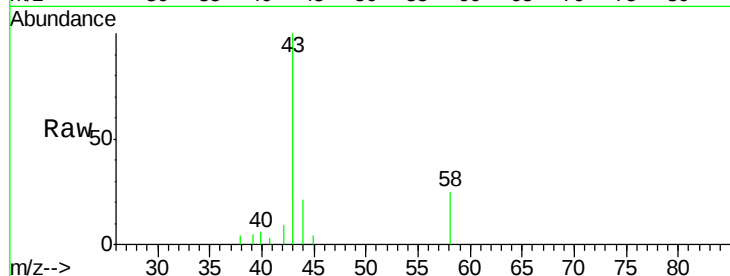
5-B

Tot Ion: 43 Resp: 19737

Ion Ratio Lower Upper

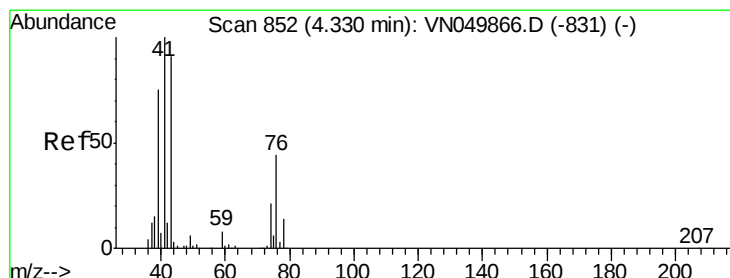
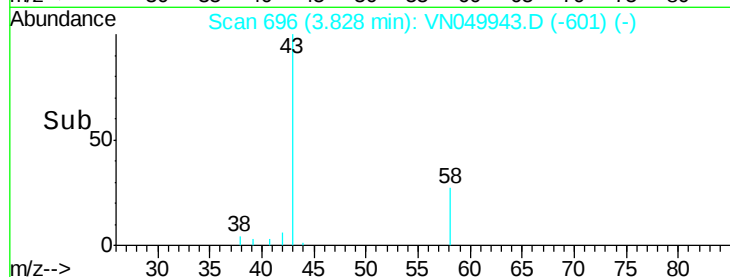
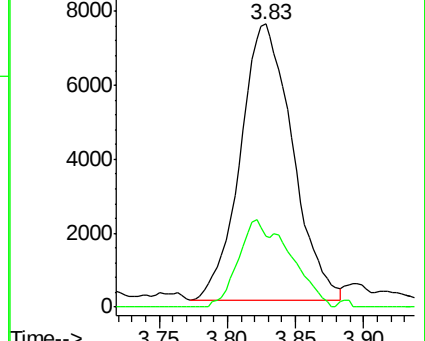
43 100

58 25.9 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-676) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-676) (-)



#18

Methyl Acetate

Concen: 3.68 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049943.D

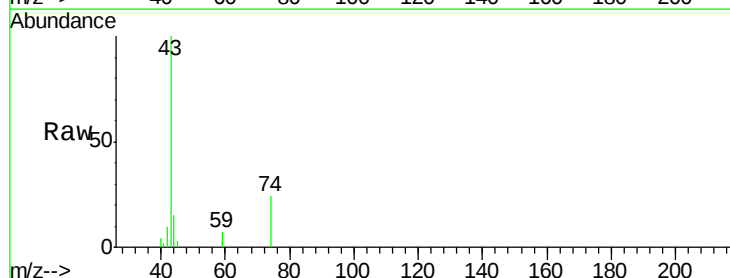
Acq: 20 Jul 2018 3:40

Tgt Ion: 43 Resp: 29590

Ion Ratio Lower Upper

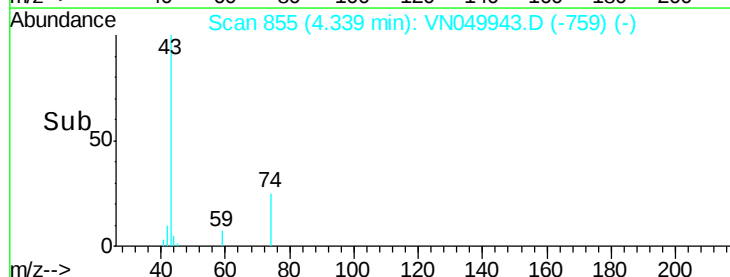
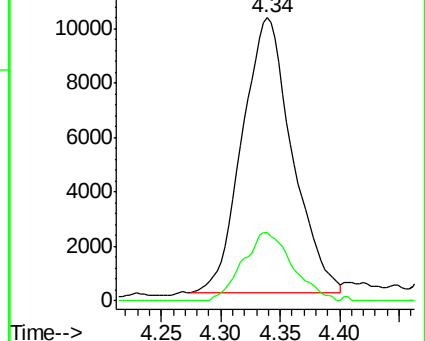
43 100

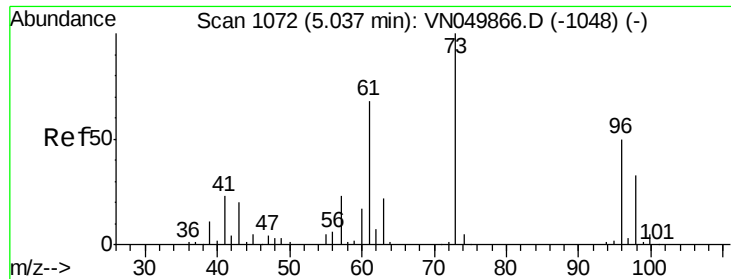
74 24.6 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-831) (-)

Ion 74.00 (73.70 to 74.70): VN049866.D (-831) (-)





#21

trans-1,2-Dichloroethene

Concen: 0.60 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

5-B

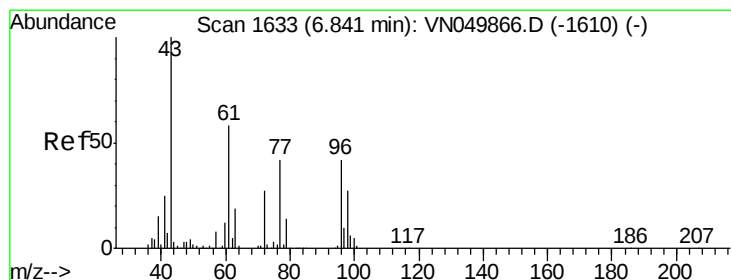
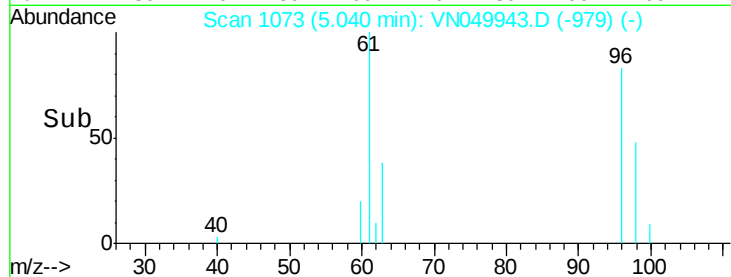
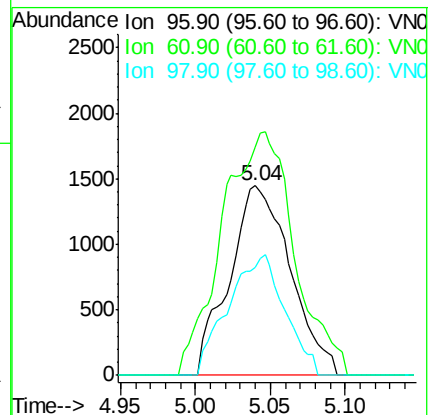
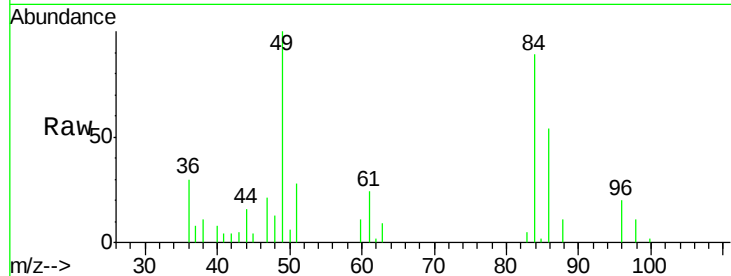
Tot Ion: 96 Resp: 4111

Ion Ratio Lower Upper

96 100

61 108.1 109.0 163.6#

98 57.3 51.1 76.7



#25

2-Butanone

Concen: 1.35 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. 0.02 min

Lab File: VN049943.D

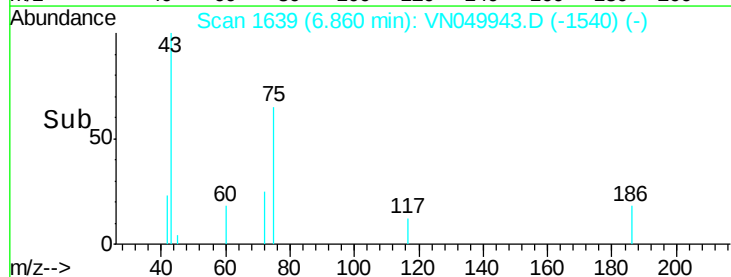
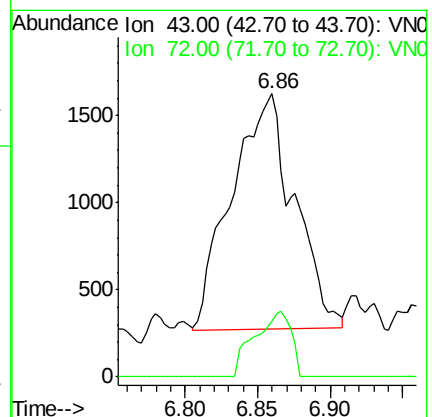
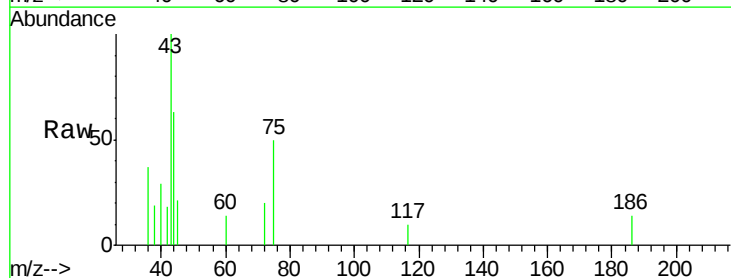
Acq: 20 Jul 2018 3:40

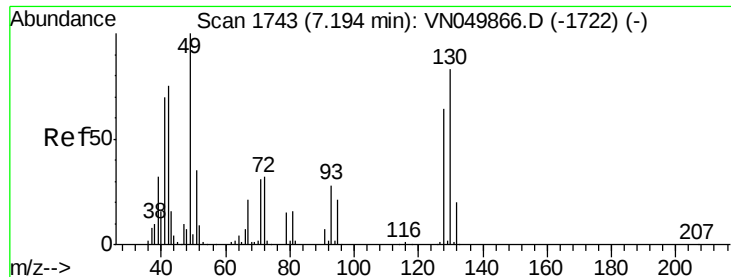
Tgt Ion: 43 Resp: 4089

Ion Ratio Lower Upper

43 100

72 23.9 22.1 33.1





#28

Bromochloromethane

Concen: 1.41 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.02 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :  
MSVOA\_N  
ClientSampled :  
5-B

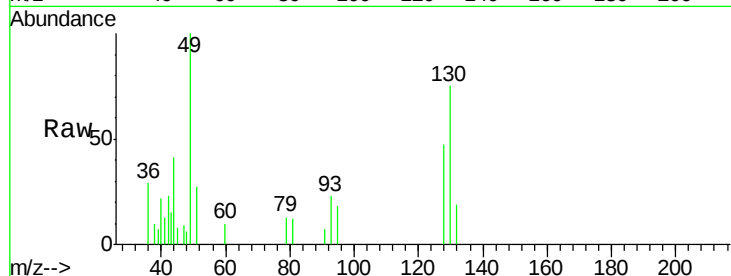
Tot Ion: 49 Resp: 8486

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

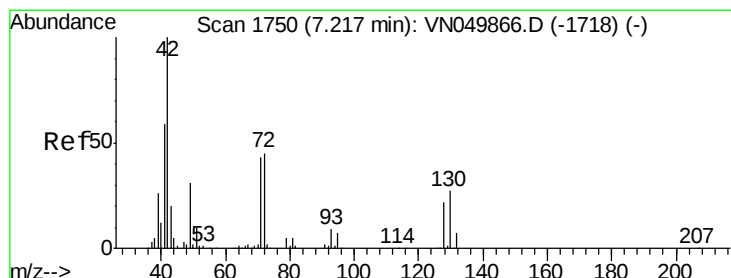
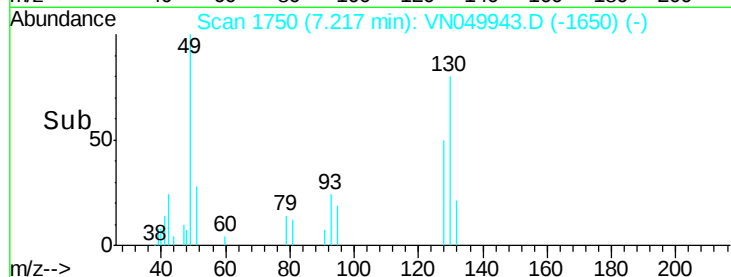
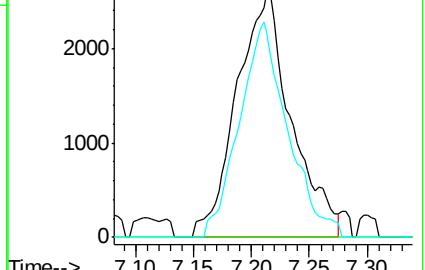
130 77.8 65.5 98.3



Abundance Ion 48.90 (48.60 to 49.60): VN049866.D (-1722) (-)

Ion 128.80 (128.50 to 129.50): VN049866.D (-1722) (-)

Ion 129.80 (129.50 to 130.50): VN049866.D (-1722) (-)



#29

Tetrahydrofuran

Concen: 1.13 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

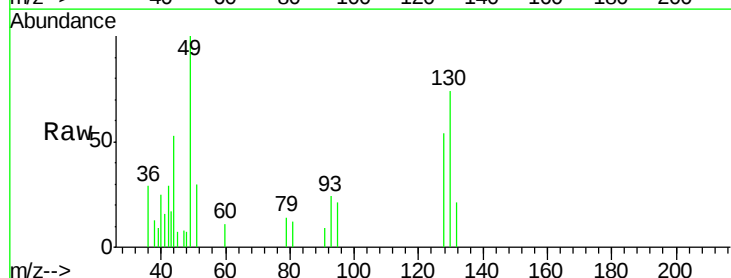
Tgt Ion: 42 Resp: 2154

Ion Ratio Lower Upper

42 100

72 12.6 35.6 53.4#

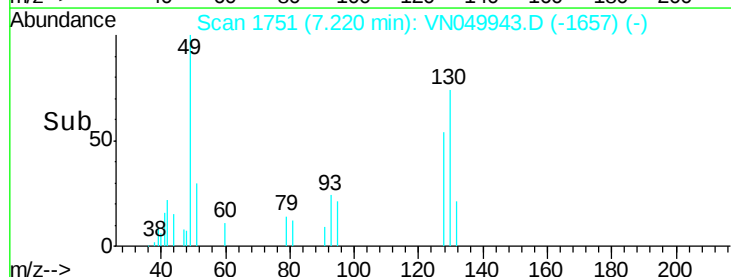
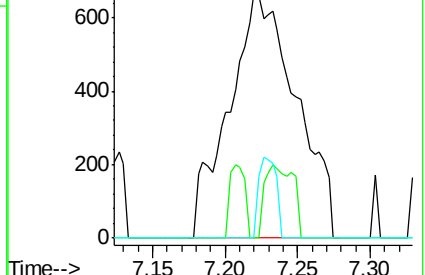
71 8.8 34.0 51.0#

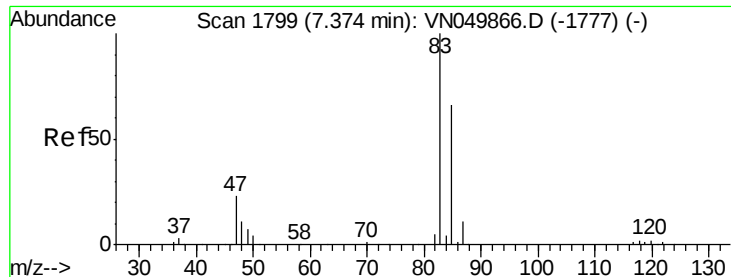


Abundance Ion 42.00 (41.70 to 42.70): VN049866.D (-1718) (-)

Ion 72.00 (71.70 to 72.70): VN049866.D (-1718) (-)

Ion 71.00 (70.70 to 71.70): VN049866.D (-1718) (-)

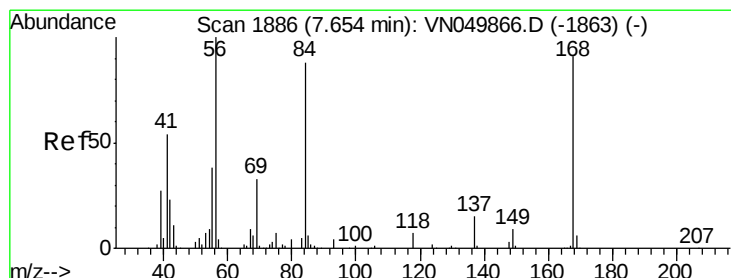
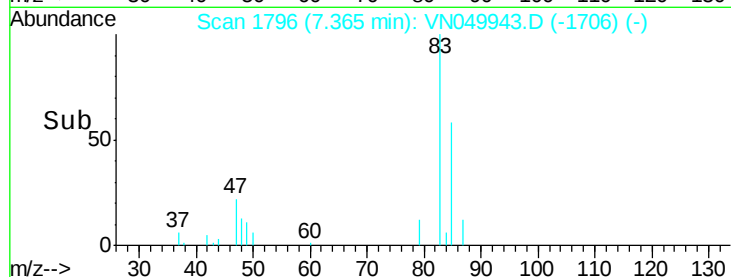
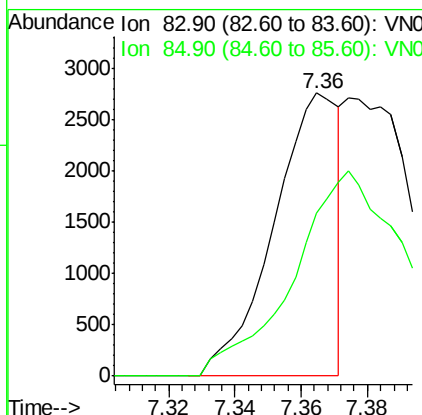
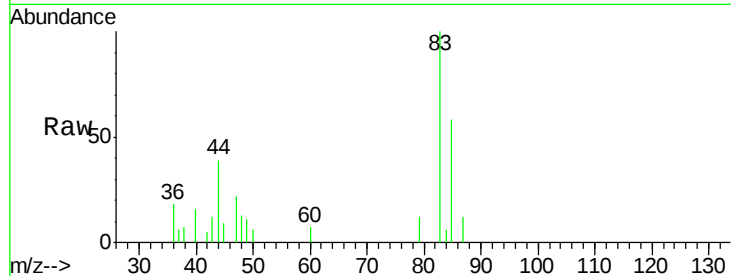




#30  
Chloroform  
Concen: 0.28 ug/l  
RT: 7.36 min Scan# 1796  
Delta R.T. -0.01 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

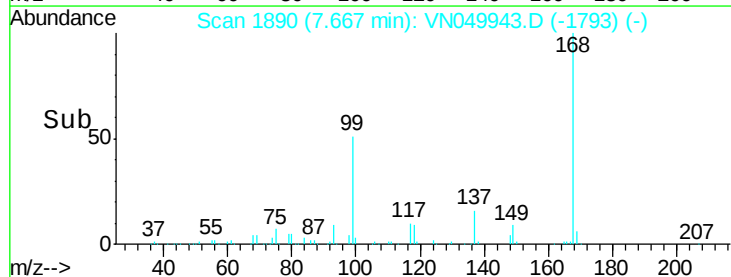
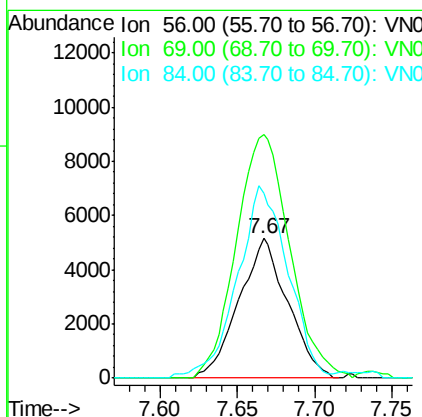
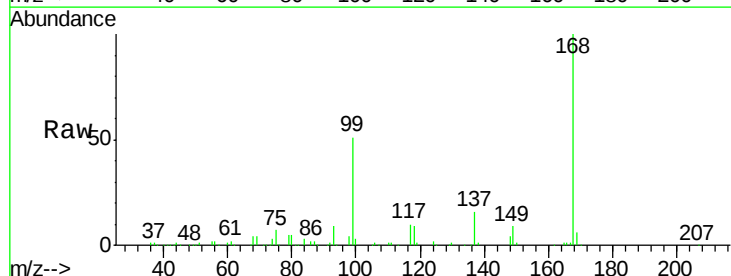
Instrument :  
MSVOA\_N  
ClientSampled :  
5-B

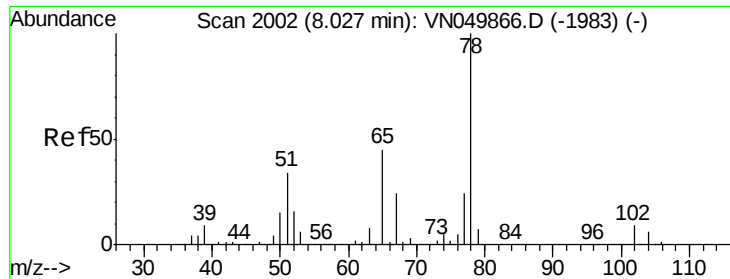
Tot Ion: 83 Resp: 3771  
Ion Ratio Lower Upper  
83 100  
85 57.6 51.4 77.2



#31  
Cyclohexane  
Concen: 1.04 ug/l  
RT: 7.67 min Scan# 1890  
Delta R.T. 0.01 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

Tgt Ion: 56 Resp: 11336  
Ion Ratio Lower Upper  
56 100  
69 174.2 26.6 40.0#  
84 128.5 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 51.60 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampleId :

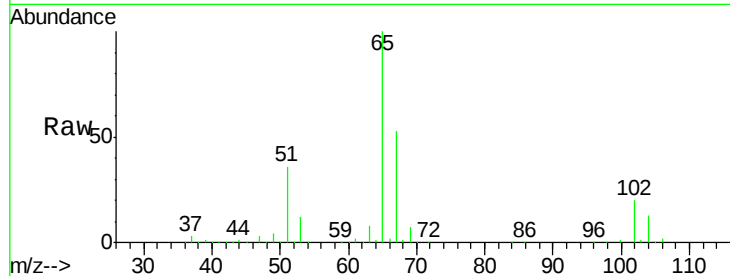
5-B

Tot Ion: 65 Resp: 422519

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049943.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049943.D (-1909) (-)

8.03

200000

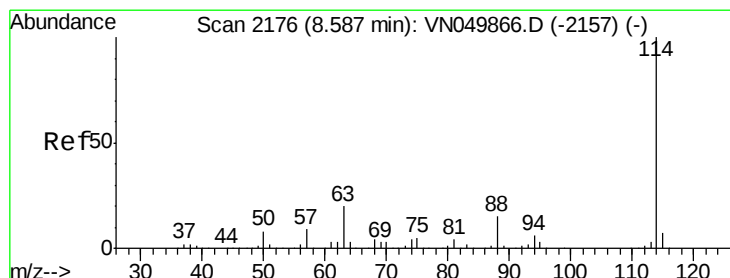
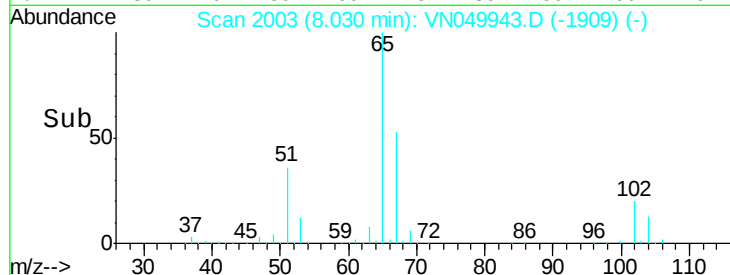
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

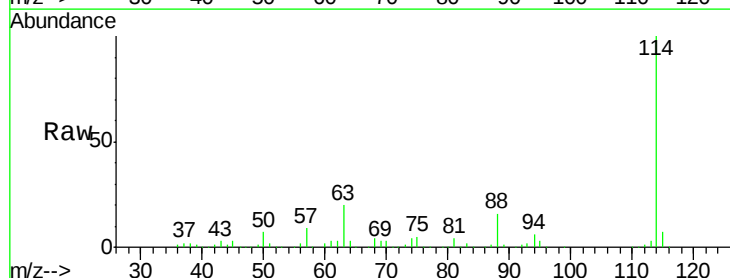
Tgt Ion: 114 Resp: 996597

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.8

88 15.7 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049943.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049943.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049943.D (-2083) (-)

8.59

600000

500000

400000

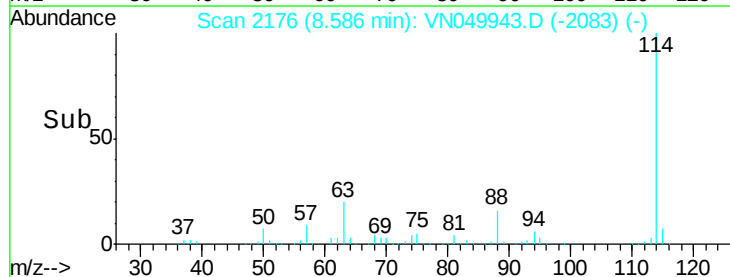
300000

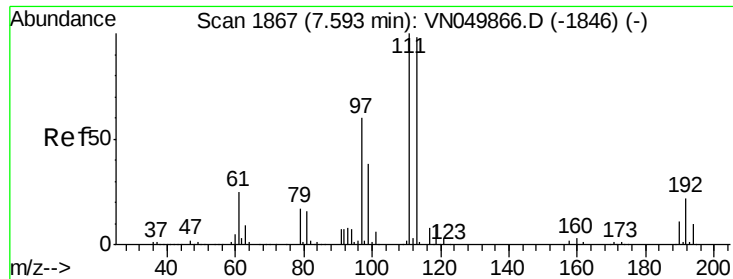
200000

100000

0

Time--> 8.50 8.60 8.70

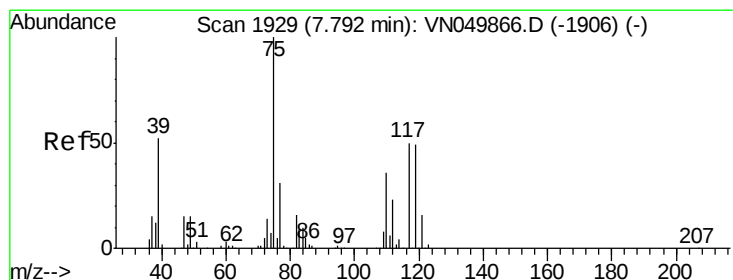
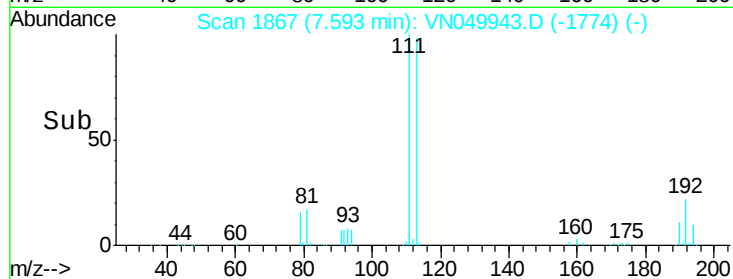
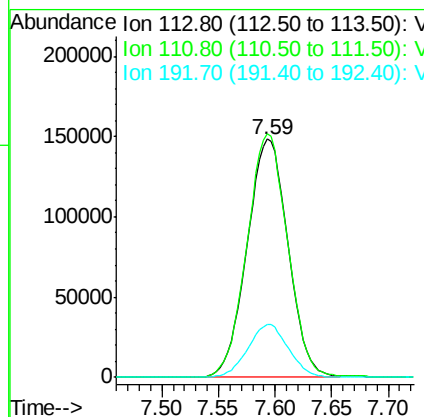
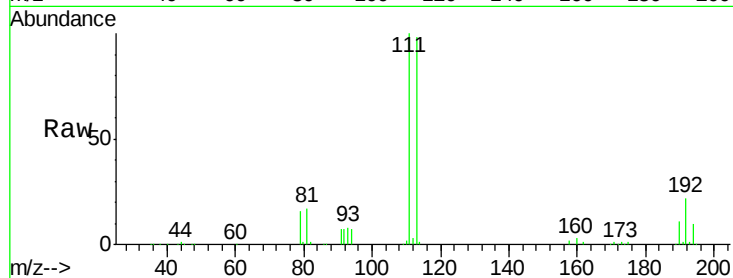




#35  
 Dibromofluoromethane  
 Concen: 44.70 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

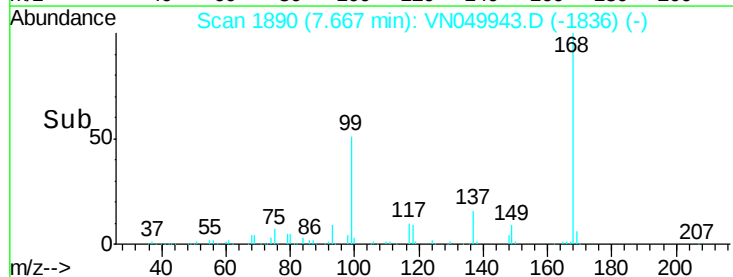
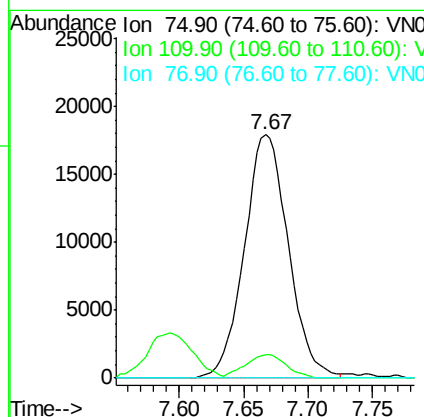
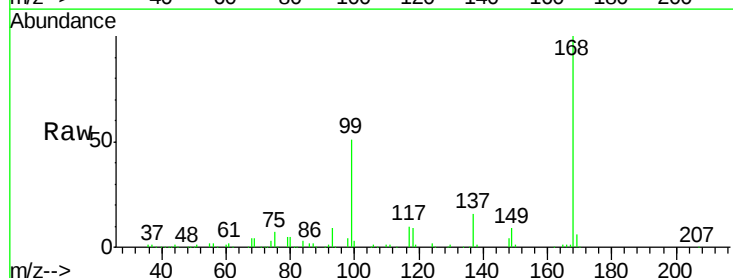
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 5-B

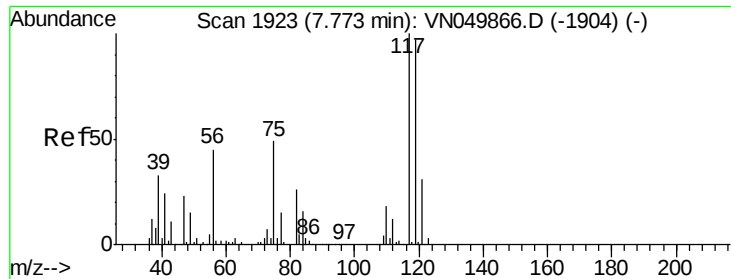
Tot Ion:113 Resp: 373977  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 81.8 122.8  
 192 21.9 17.8 26.6



#36  
 1,1-Dichloropropene  
 Concen: 3.84 ug/l  
 RT: 7.67 min Scan# 1890  
 Delta R.T. -0.13 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Tgt Ion: 75 Resp: 42598  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 18.1 54.4#  
 77 0.0 24.9 37.3#

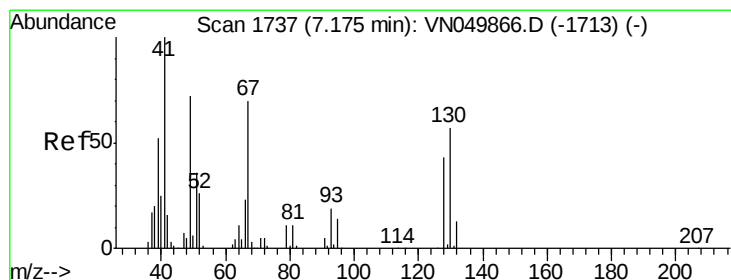
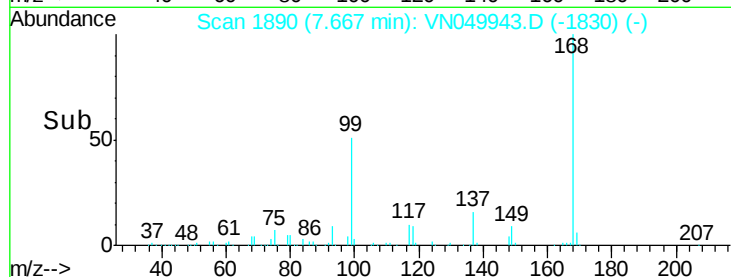
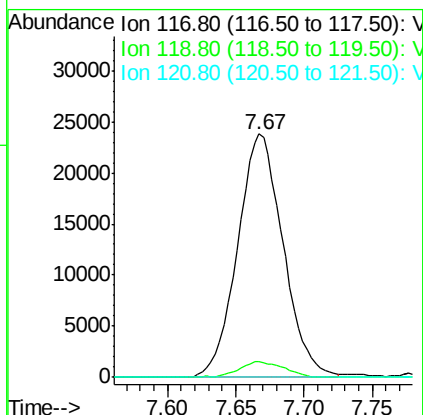
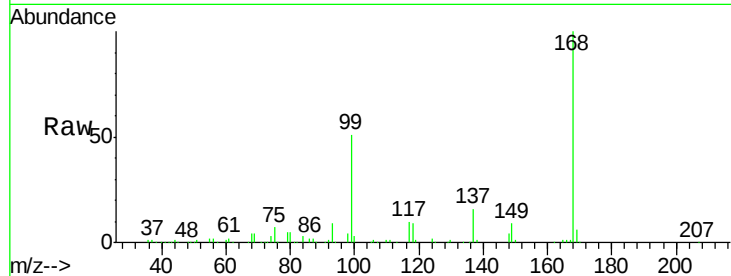




#38  
Carbon Tetrachloride  
Concen: 4.64 ug/l  
RT: 7.67 min Scan# 1890  
Delta R.T. -0.11 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

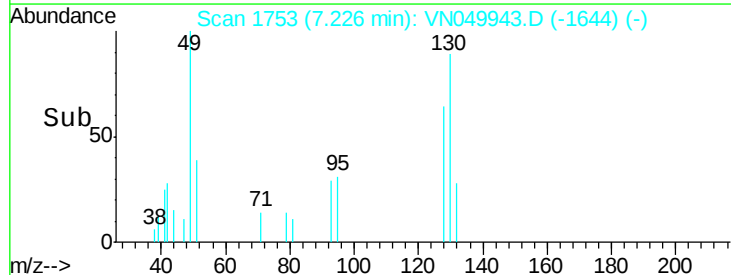
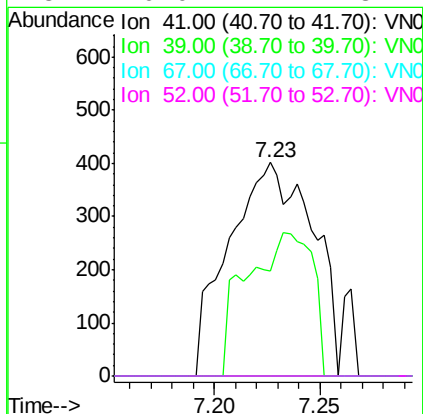
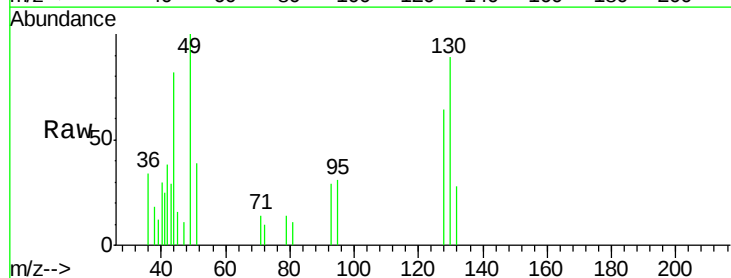
Instrument :  
MSVOA\_N  
ClientSampled :  
5-B

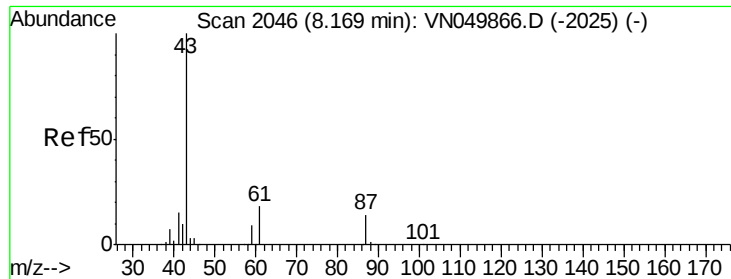
Tot Ion:117 Resp: 55035  
Ion Ratio Lower Upper  
117 100  
119 6.3 77.2 115.8#  
121 0.0 25.0 37.6#



#41  
Methacrylonitrile  
Concen: 0.29 ug/l  
RT: 7.23 min Scan# 1753  
Delta R.T. 0.05 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

Tgt Ion: 41 Resp: 1113  
Ion Ratio Lower Upper  
41 100  
39 52.7 45.4 68.2  
67 0.0 65.4 98.0#  
52 0.0 24.7 37.1#



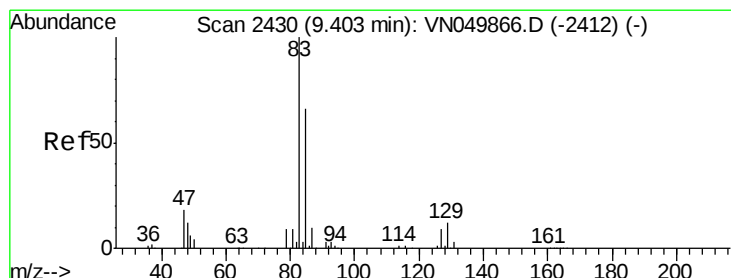
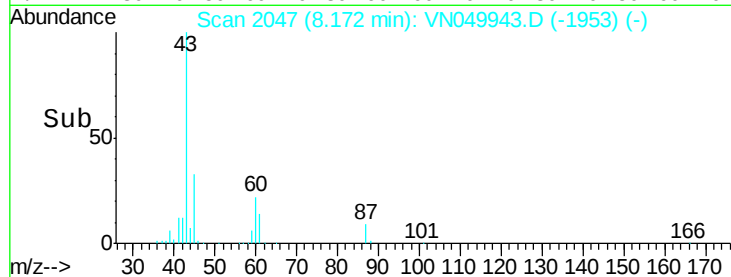
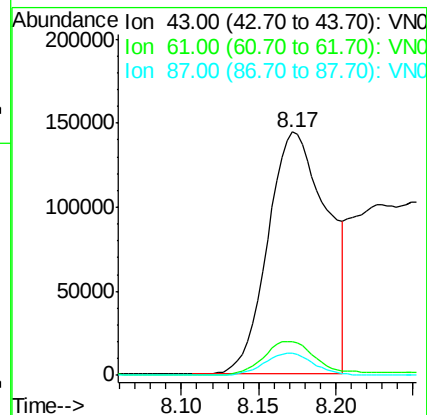
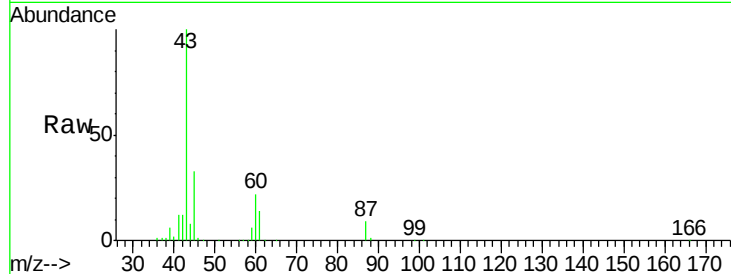


#43

Isopropyl Acetate  
 Concen: 29.02 ug/l  
 RT: 8.17 min Scan# 2047  
 Delta R.T. 0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 5-B

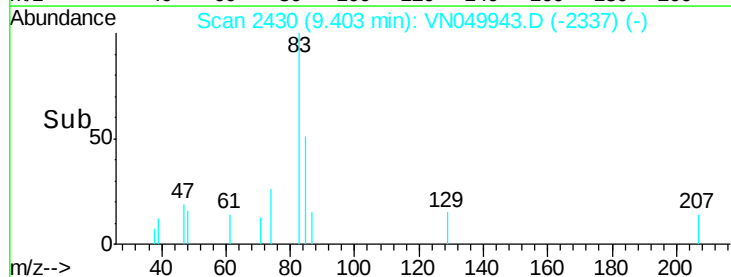
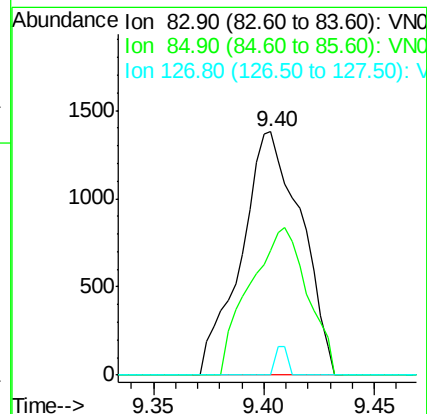
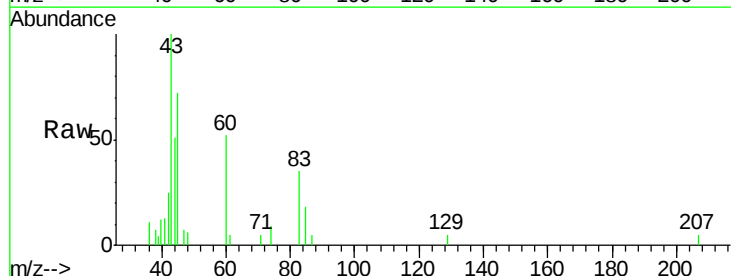
Tot Ion: 43 Resp: 385762  
 Ion Ratio Lower Upper  
 43 100  
 61 12.7 14.9 22.3#  
 87 7.6 10.0 15.0#

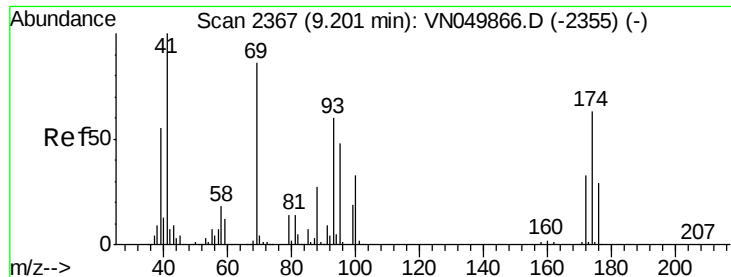


#47

Bromodichloromethane  
 Concen: 0.22 ug/l  
 RT: 9.40 min Scan# 2430  
 Delta R.T. -0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Tgt Ion: 83 Resp: 2605  
 Ion Ratio Lower Upper  
 83 100  
 85 51.4 50.5 75.7  
 127 0.0 6.8 10.2#

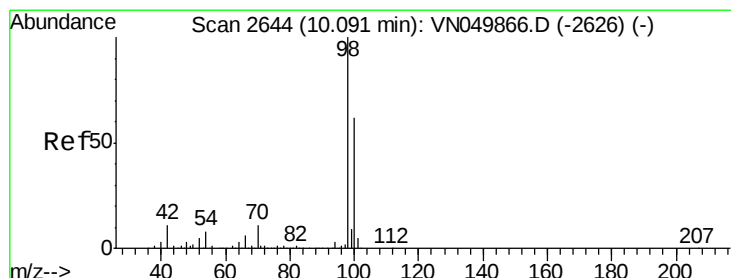
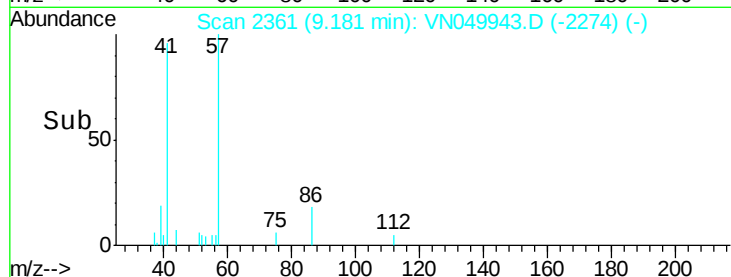
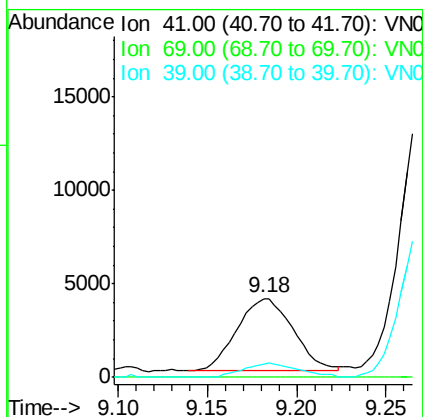
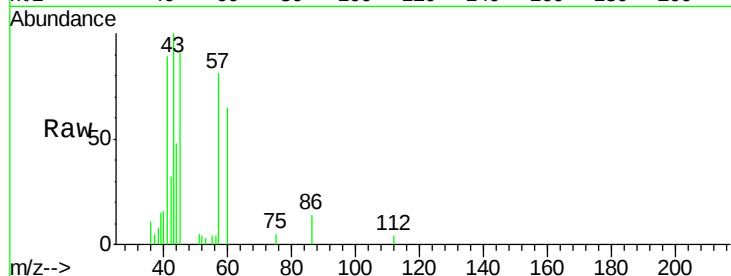




#48  
Methvl methacrylate  
Concen: 1.27 ug/l  
RT: 9.18 min Scan# 2361  
Delta R.T. -0.02 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

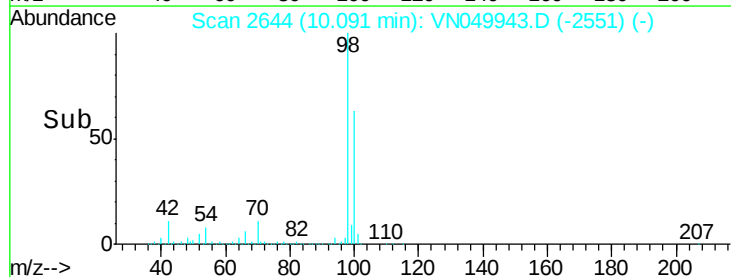
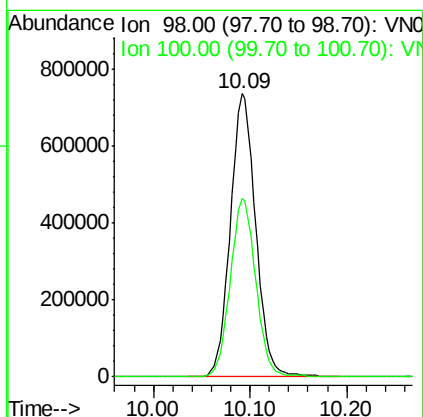
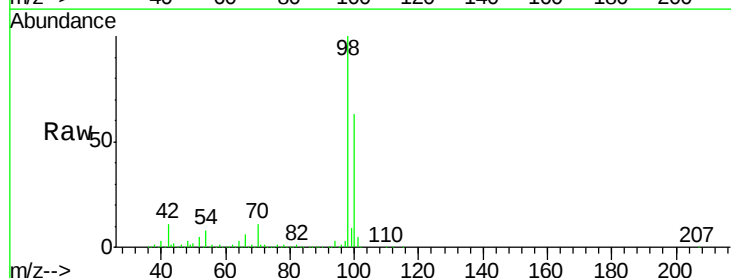
Instrument :  
MSVOA\_N  
ClientSampleId :  
5-B

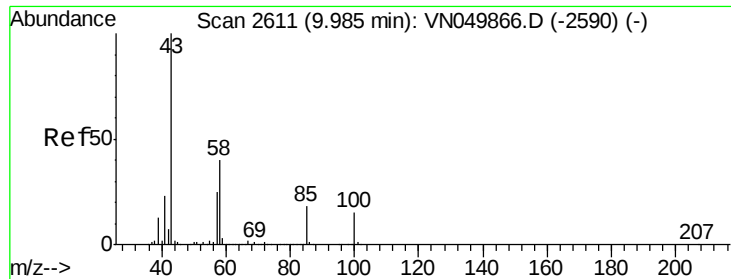
Tot Ion: 41 Resp: 8459  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.5 107.3#  
39 19.4 44.7 67.1#



#50  
Toluene-d8  
Concen: 44.03 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. -0.00 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

Tgt Ion: 98 Resp: 1342202  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

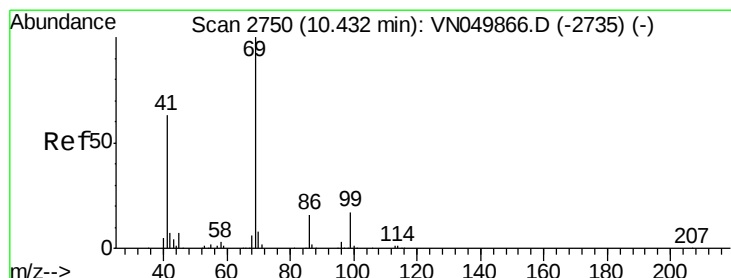
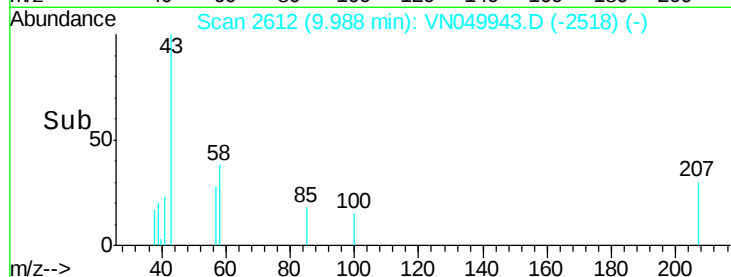
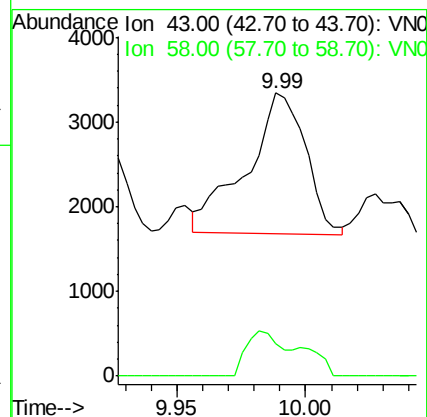
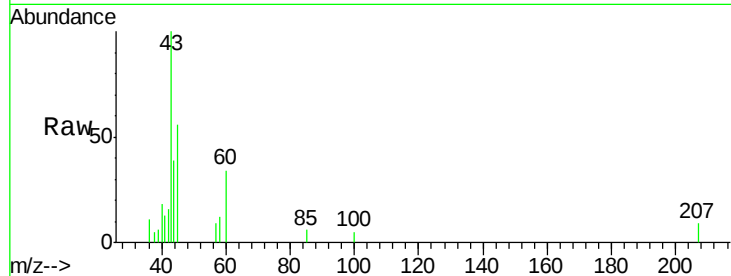
5-B

Tot Ion: 43 Resp: 2641

Ion Ratio Lower Upper

43 100

58 20.2 31.8 47.8#



#56

Ethyl methacrylate

Concen: 2.17 ug/l

RT: 10.55 min Scan# 2788

Delta R.T. 0.12 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

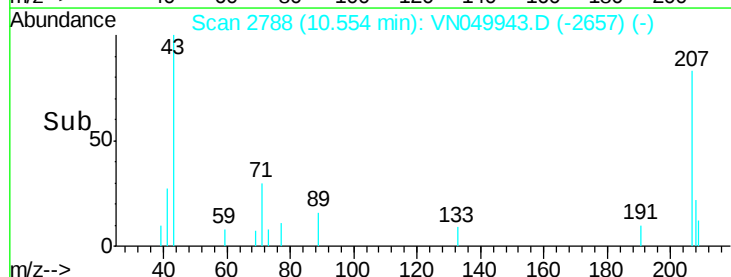
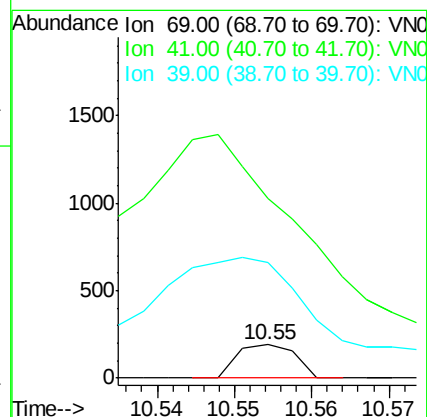
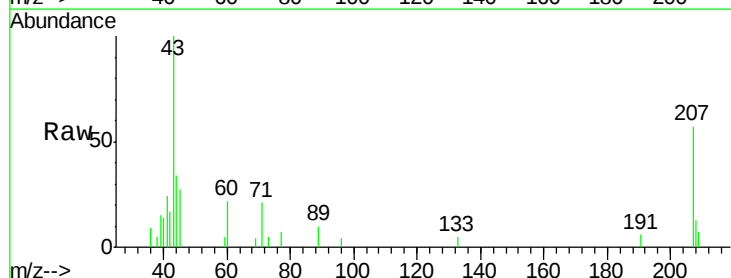
Tgt Ion: 69 Resp: 100

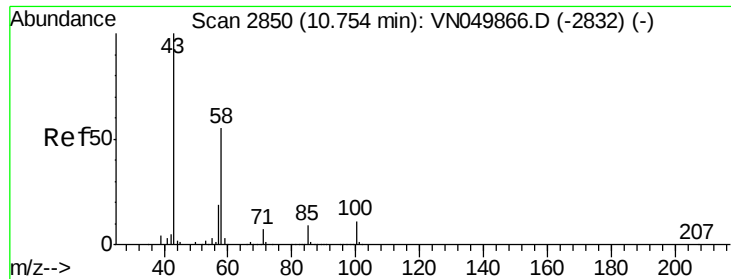
Ion Ratio Lower Upper

69 100

41 2772.0 51.6 77.4#

39 1239.0 25.8 38.8#





#59

2-Hexanone

Concen: 3.95 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

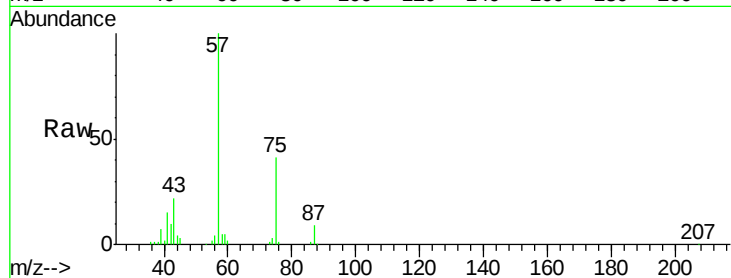
5-B

Tot Ion: 43 Resp: 19698

Ion Ratio Lower Upper

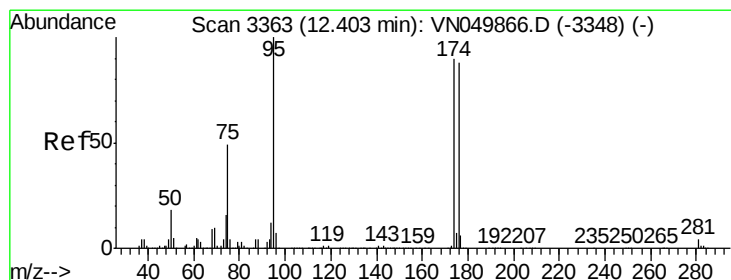
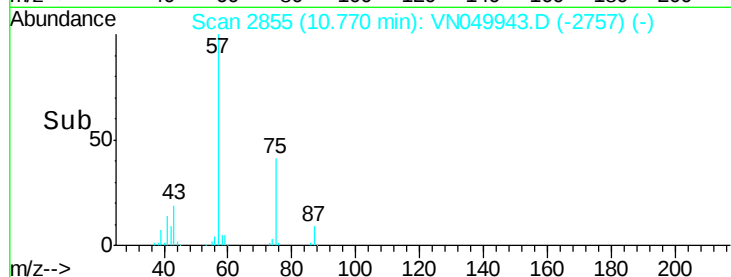
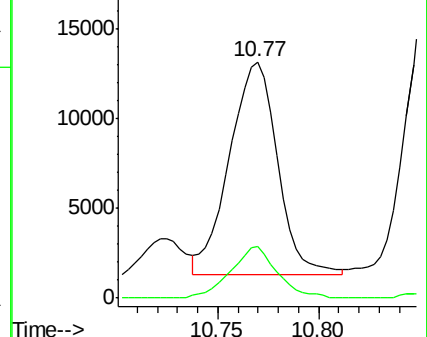
43 100

58 23.4 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2832) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2832) (-)



#62

4-Bromofluorobenzene

Concen: 33.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

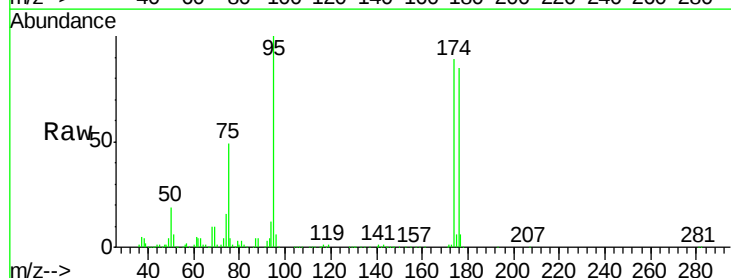
Tgt Ion: 95 Resp: 352053

Ion Ratio Lower Upper

95 100

174 90.5 0.0 179.6

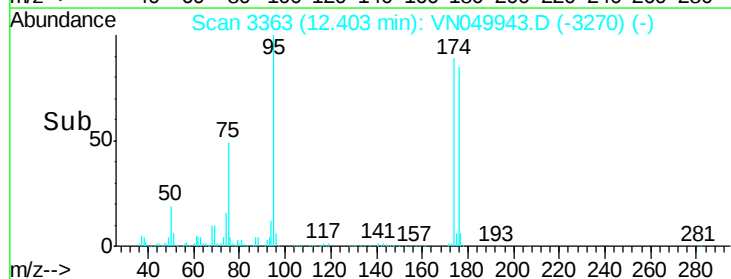
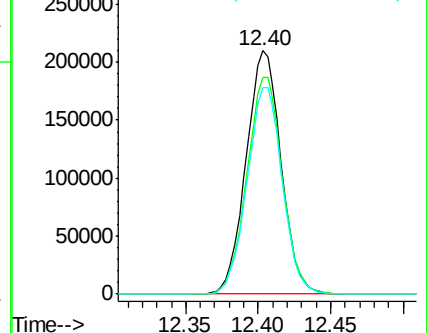
176 85.5 0.0 174.0

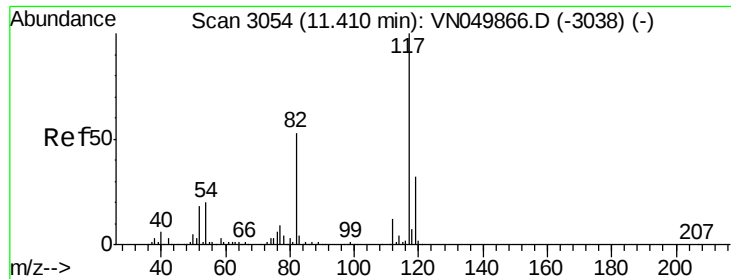


Abundance Ion 94.90 (94.60 to 95.60): VN049866.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN049866.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049866.D (-3348) (-)

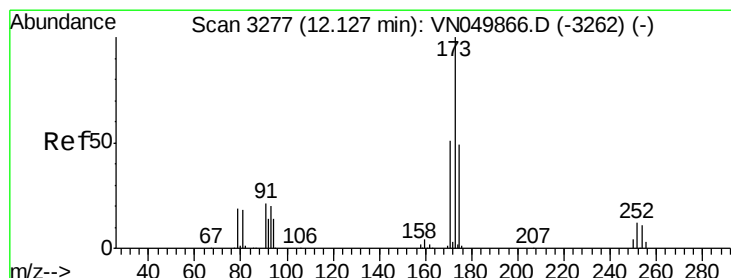
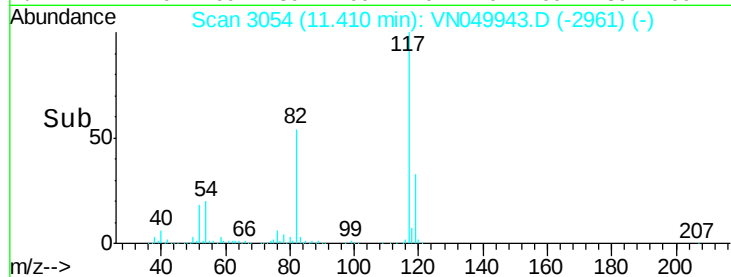
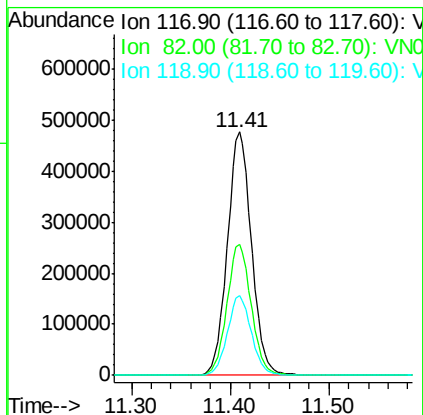
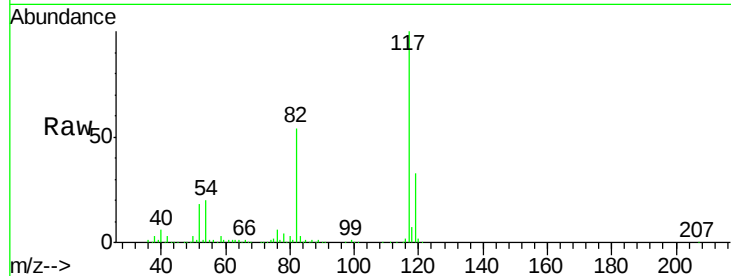




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

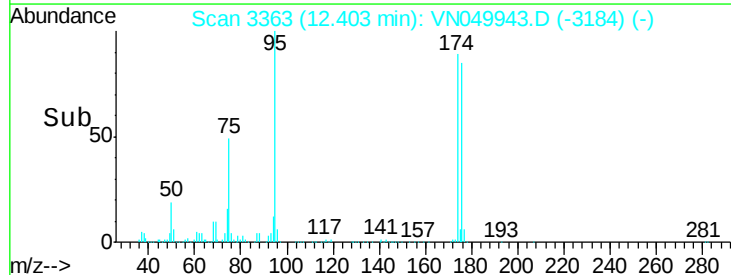
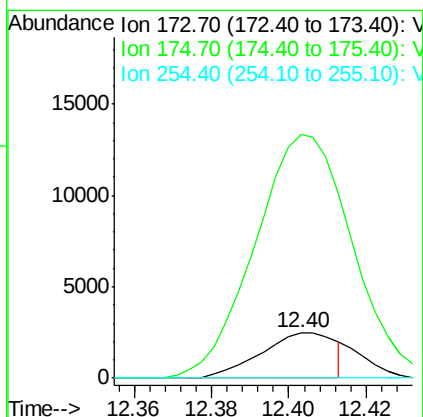
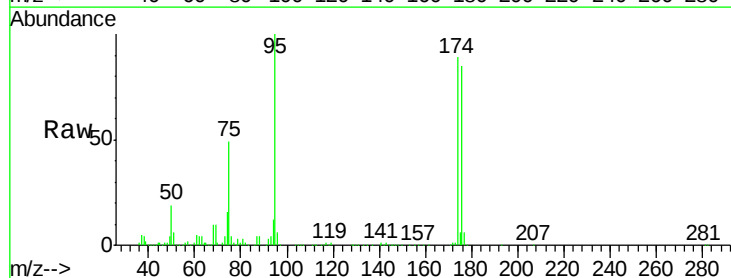
Instrument :  
MSVOA\_N  
ClientSampled :  
5-B

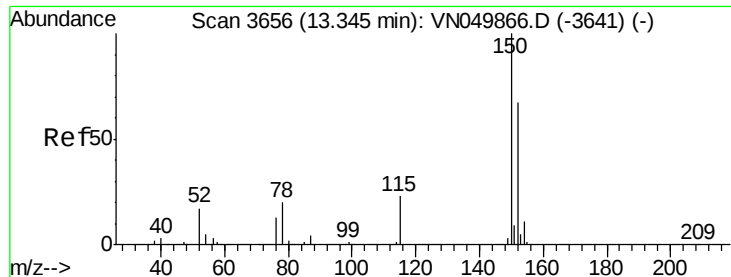
Tot Ion:117 Resp: 818903  
Ion Ratio Lower Upper  
117 100  
82 54.0 41.9 62.9  
119 32.7 25.4 38.2



#71  
Bromoform  
Concen: 0.58 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. 0.28 min  
Lab File: VN049943.D  
Acq: 20 Jul 2018 3:40

Tgt Ion:173 Resp: 3313  
Ion Ratio Lower Upper  
173 100  
175 576.2 24.6 73.8#  
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampleId :

5-B

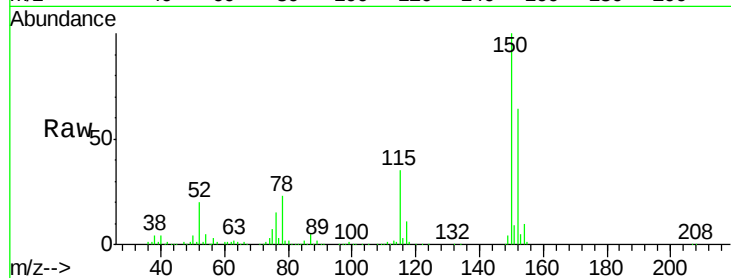
Tot Ion:152 Resp: 277660

Ion Ratio Lower Upper

152 100

115 55.2 28.1 84.2

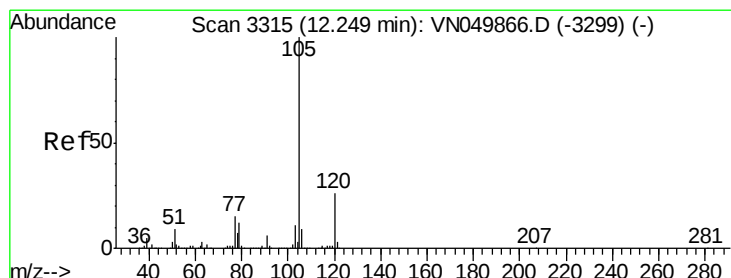
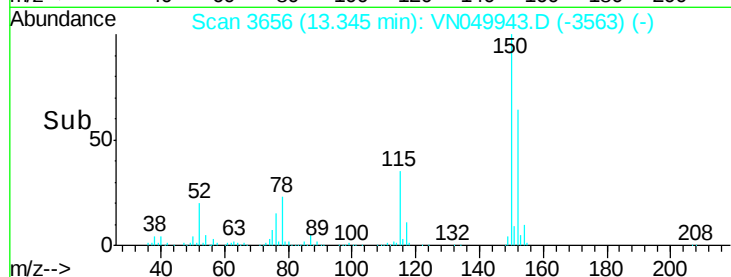
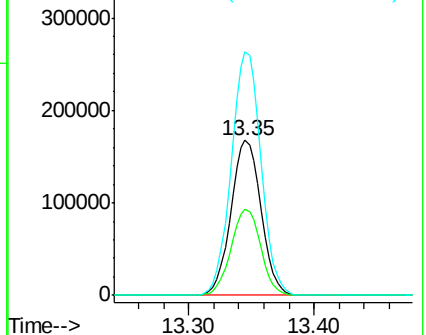
150 155.7 0.0 347.6



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: 0.71 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049943.D

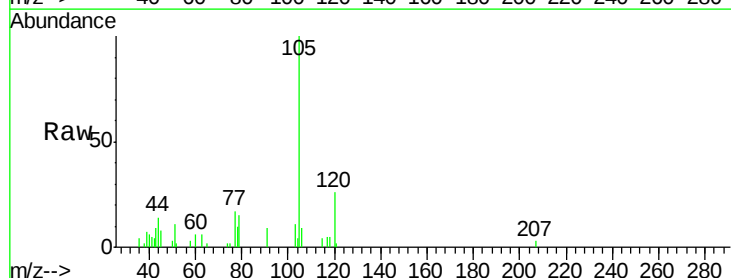
Acq: 20 Jul 2018 3:40

Tgt Ion:105 Resp: 14998

Ion Ratio Lower Upper

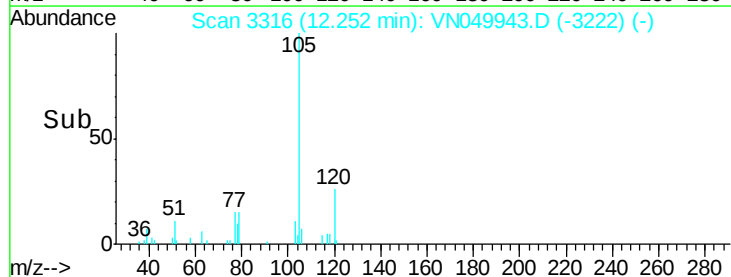
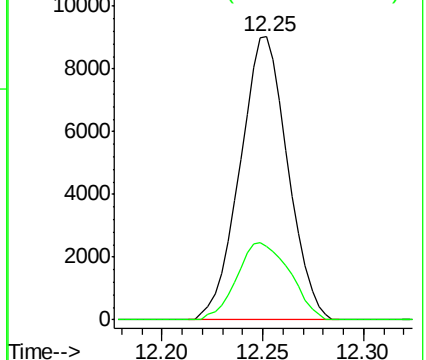
105 100

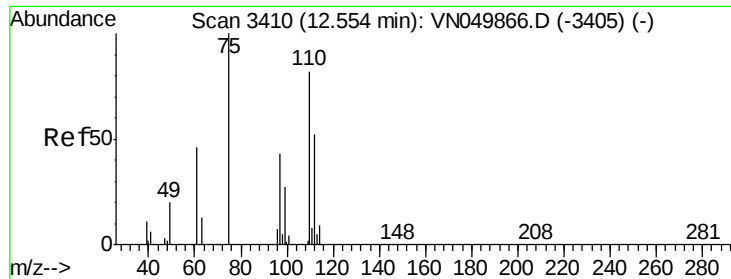
120 30.1 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.27 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

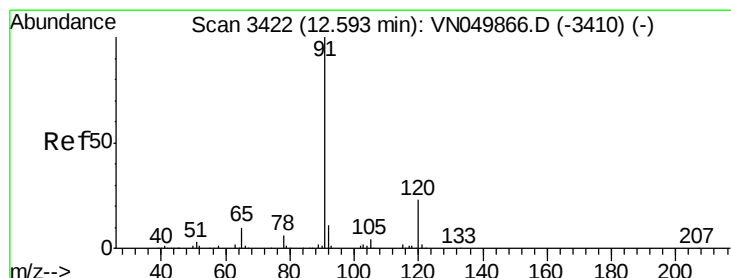
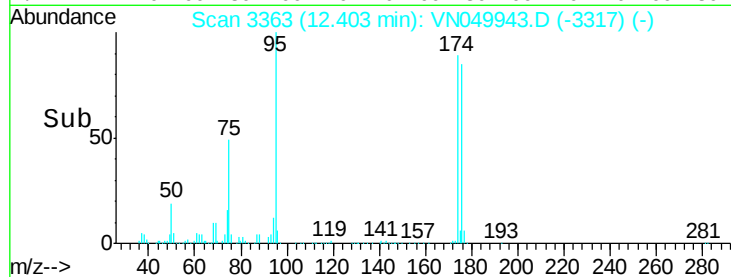
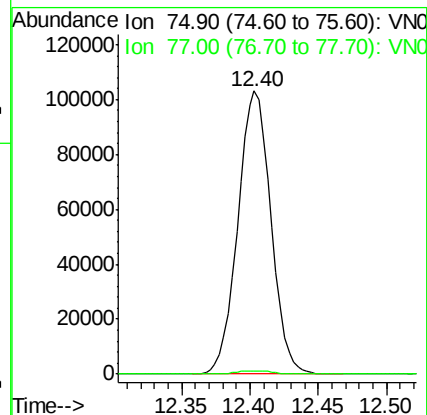
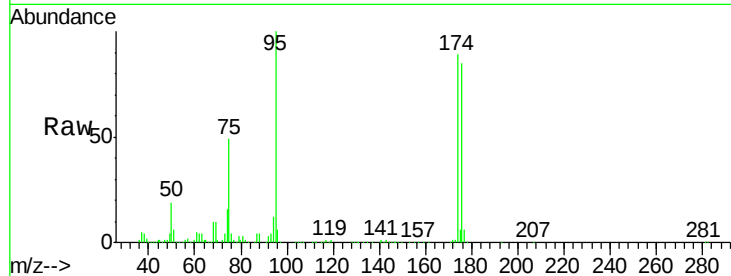
5-B

Tot Ion: 75 Resp: 173290

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#78

n-propylbenzene

Concen: 1.73 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN049943.D

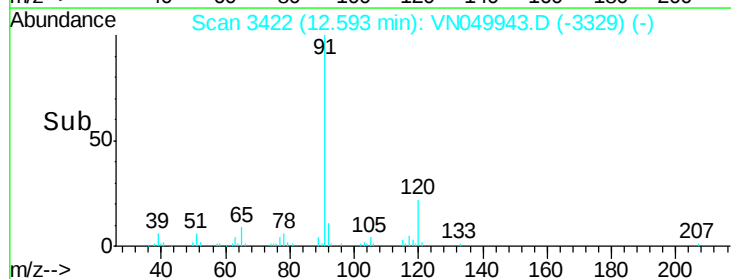
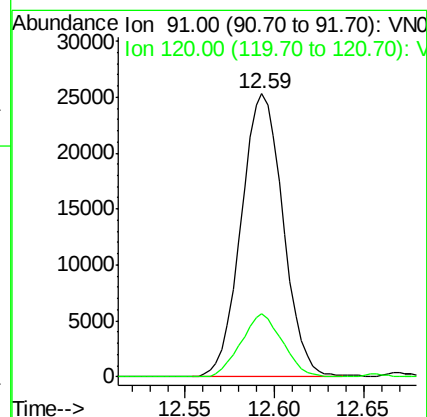
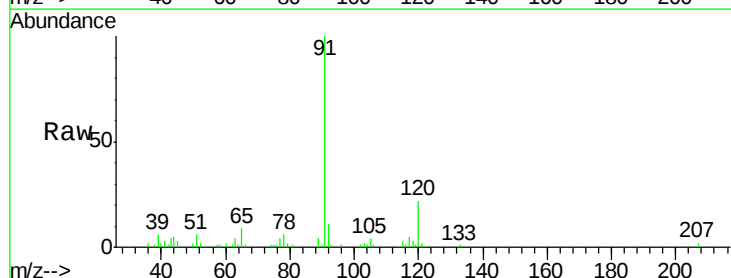
Acq: 20 Jul 2018 3:40

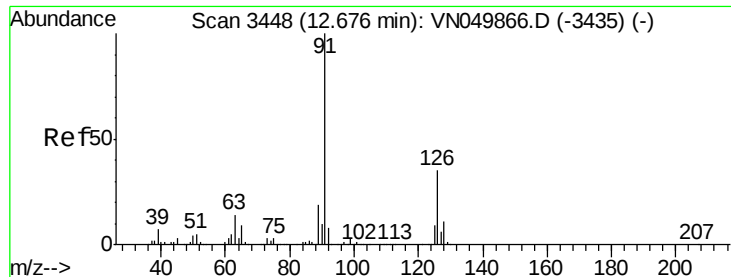
Tgt Ion: 91 Resp: 41365

Ion Ratio Lower Upper

91 100

120 22.0 11.5 34.4





#79

2-Chlorotoluene

Concen: 2.81 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.08 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

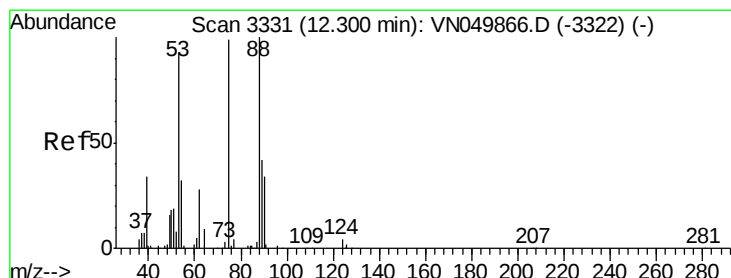
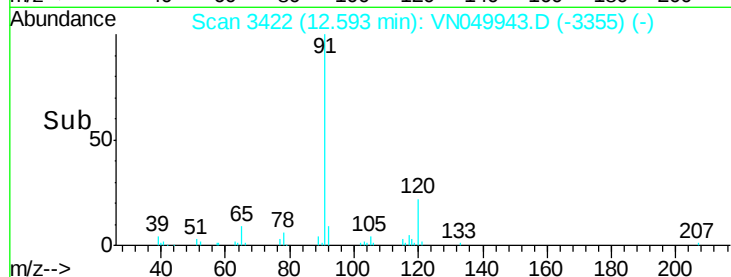
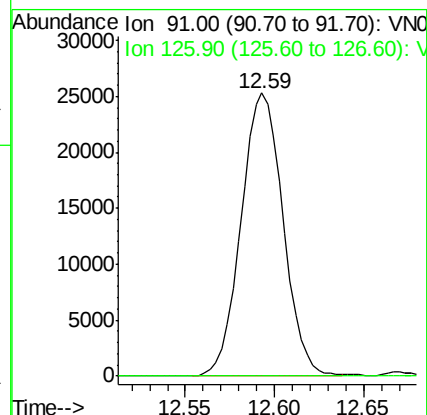
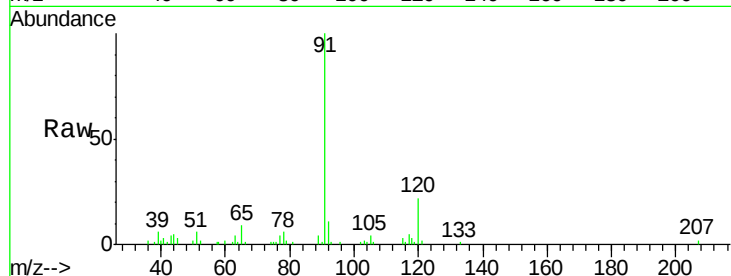
5-B

Tot Ion: 91 Resp: 41365

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 104.03 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

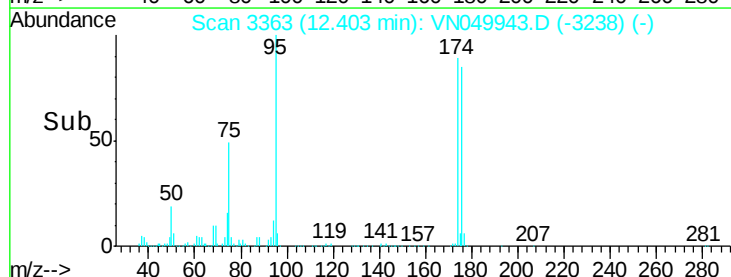
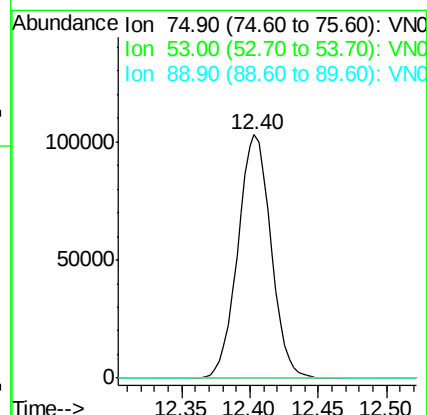
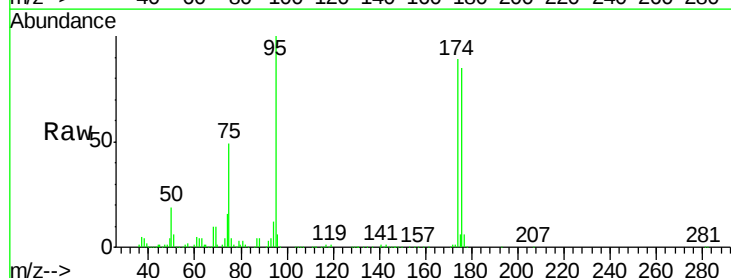
Tgt Ion: 75 Resp: 173290

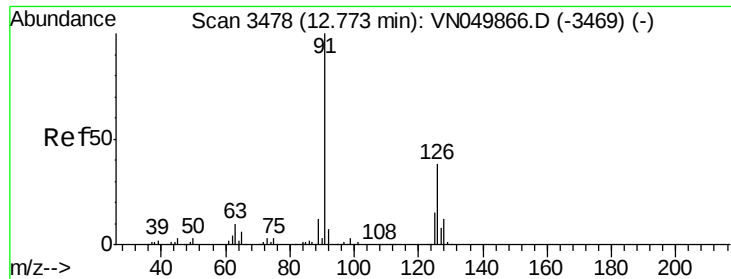
Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 35.9 53.9#





#82

4-Chlorotoluene

Concen: 2.80 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.18 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampled :

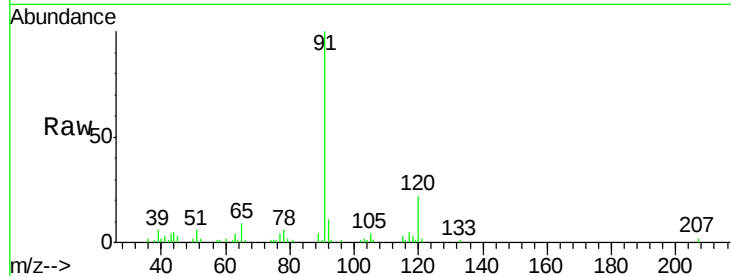
5-B

Tot Ion: 91 Resp: 41365

Ion Ratio Lower Upper

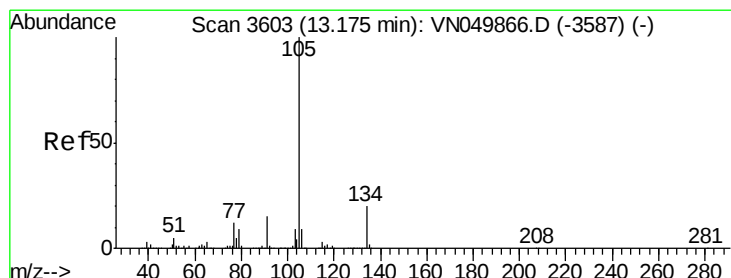
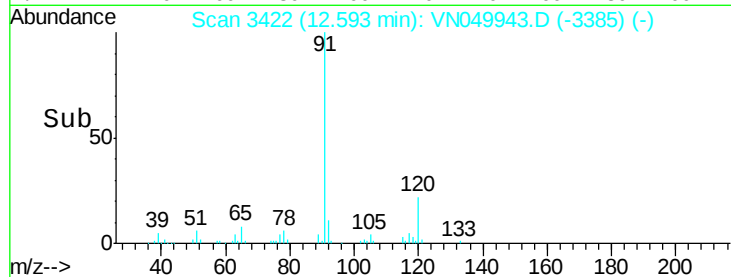
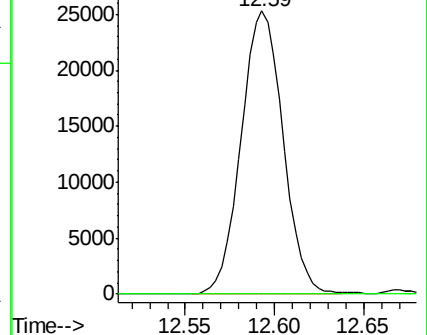
91 100

126 0.0 17.2 51.6#



Abundance Ion 91.00 (90.70 to 91.70): VN049943.D (-3385) (-)

Ion 125.90 (125.60 to 126.60): VN049943.D (-3385) (-)



#85

sec-Butylbenzene

Concen: 0.90 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN049943.D

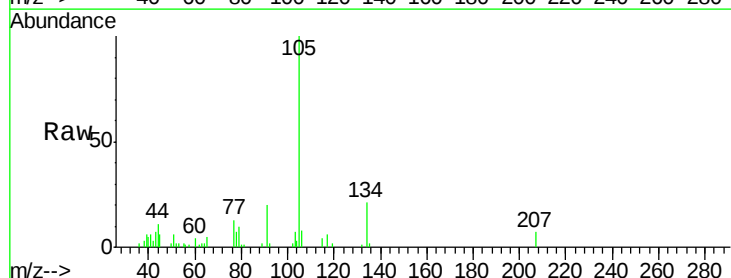
Acq: 20 Jul 2018 3:40

Tgt Ion: 105 Resp: 17635

Ion Ratio Lower Upper

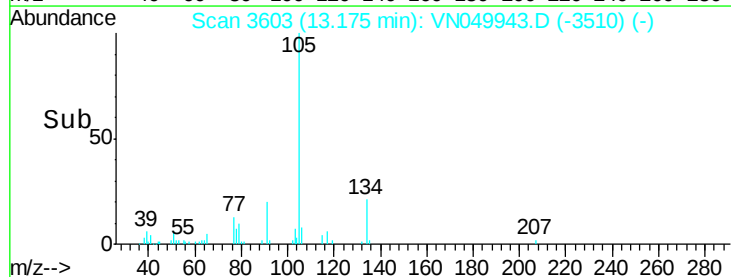
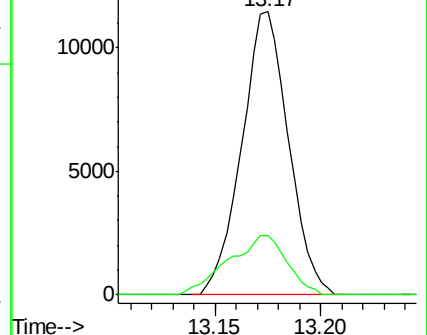
105 100

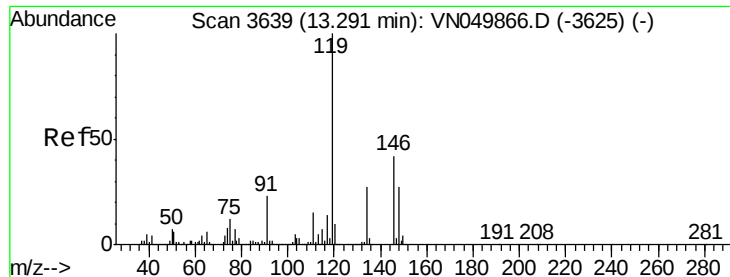
134 26.2 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): VN049943.D (-3510) (-)

Ion 134.00 (133.70 to 134.70): VN049943.D (-3510) (-)

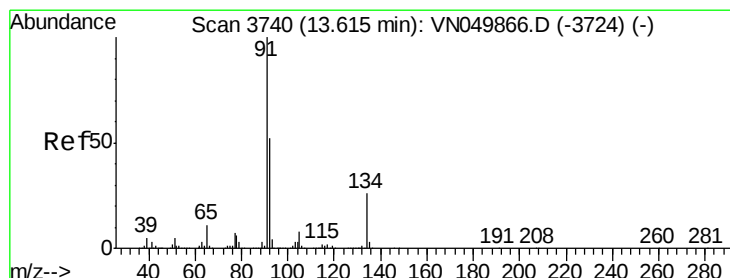
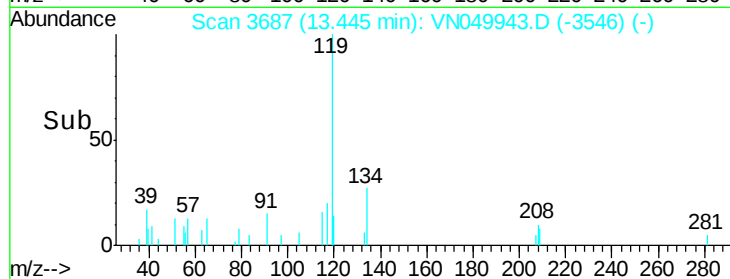
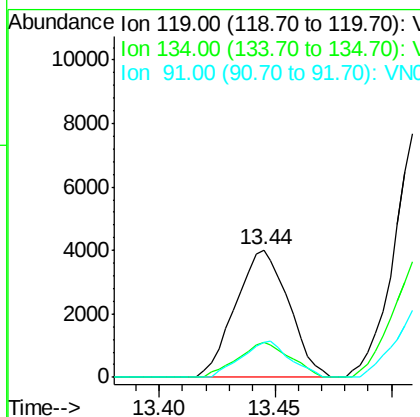
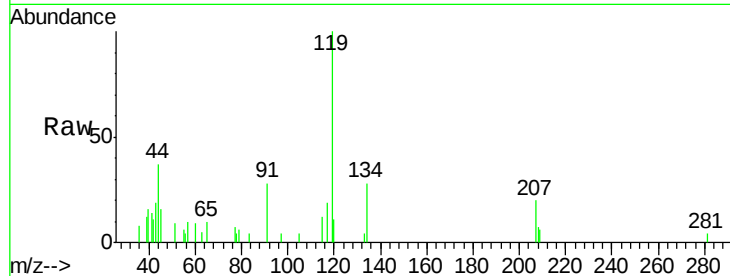




#86  
 p-Isopropyltoluene  
 Concen: 0.38 ug/l  
 RT: 13.44 min Scan# 3687  
 Delta R.T. 0.15 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

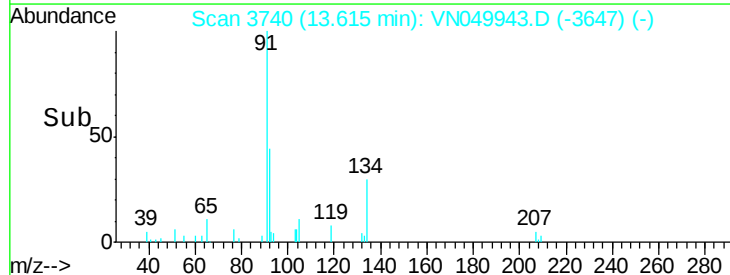
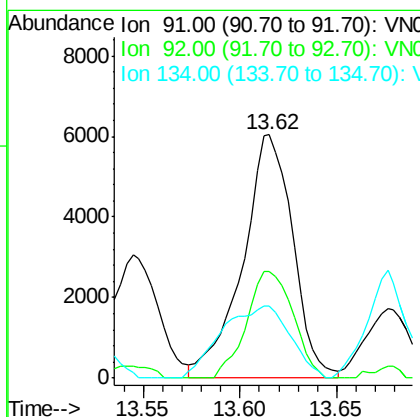
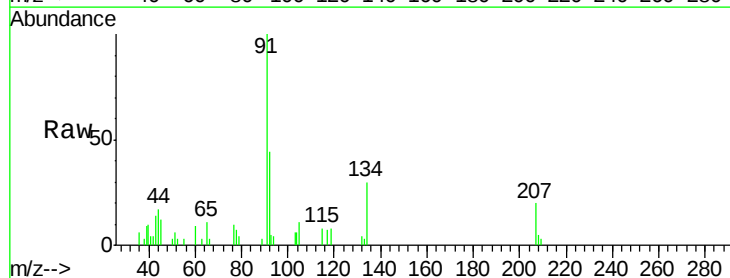
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 5-B

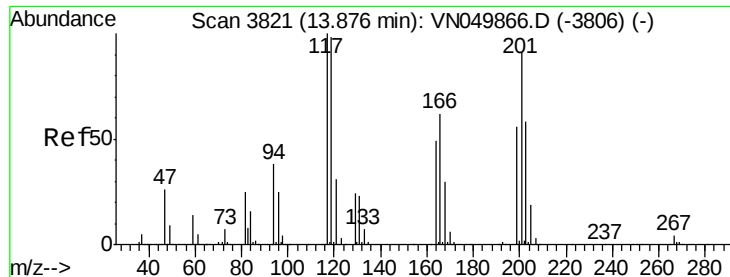
Tot Ion:119 Resp: 6390  
 Ion Ratio Lower Upper  
 119 100  
 134 27.4 13.3 39.9  
 91 25.9 11.4 34.1



#89  
 n-Butylbenzene  
 Concen: 0.79 ug/l  
 RT: 13.62 min Scan# 3740  
 Delta R.T. -0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Tgt Ion: 91 Resp: 10946  
 Ion Ratio Lower Upper  
 91 100  
 92 40.6 25.8 77.3  
 134 40.4 13.0 38.9#





#90

Hexachloroethane

Concen: 2.06 ug/l

RT: 13.89 min Scan# 3825

Delta R.T. 0.01 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

Instrument :

MSVOA\_N

ClientSampleId :

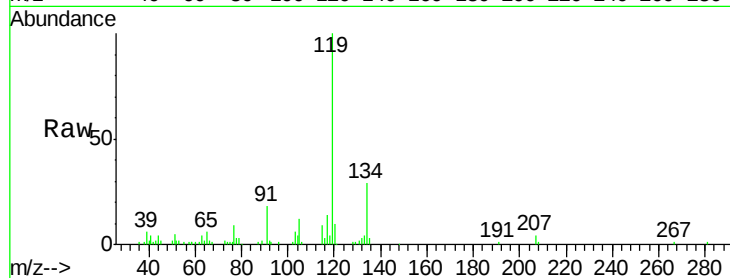
5-B

Tot Ion:117 Resp: 7729

Ion Ratio Lower Upper

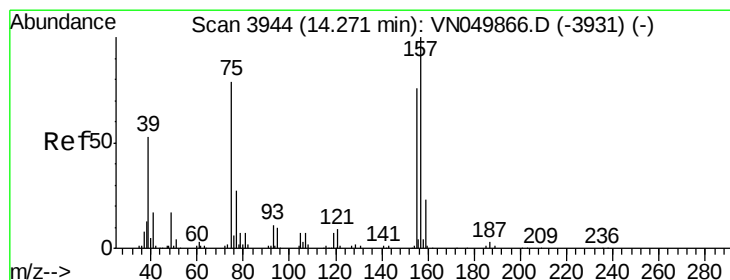
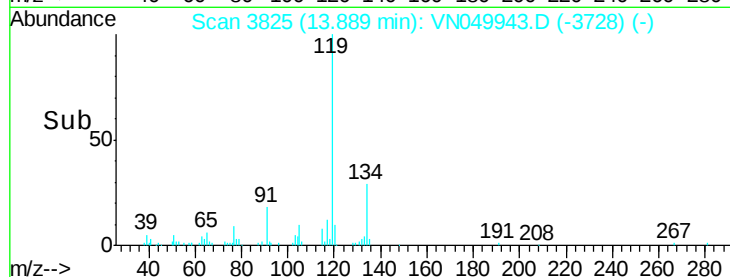
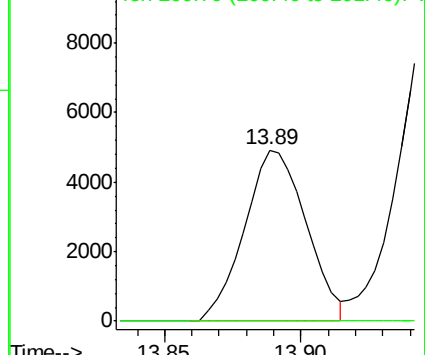
117 100

201 0.0 45.3 135.8#



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: 0.45 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VN049943.D

Acq: 20 Jul 2018 3:40

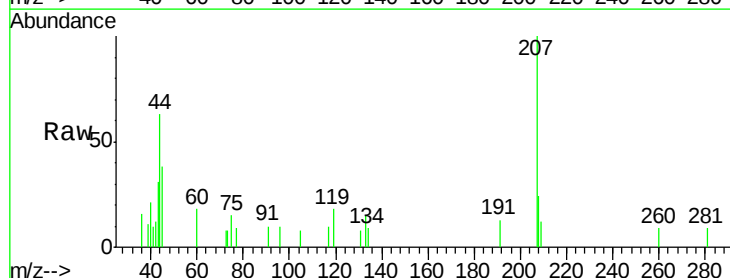
Tgt Ion: 75 Resp: 436

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

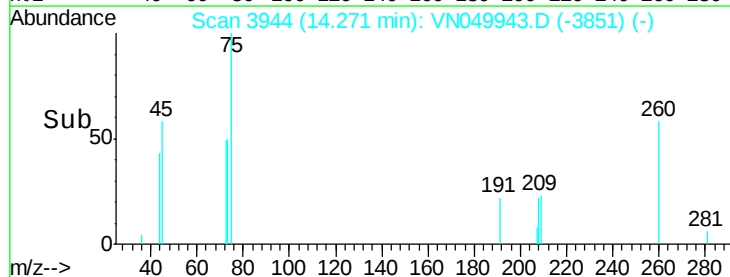
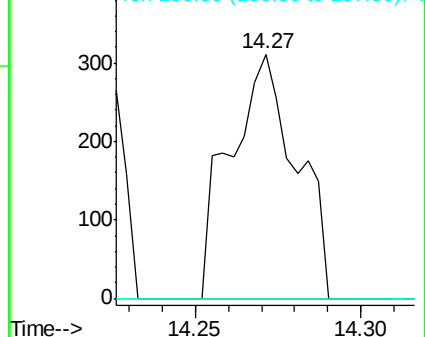
157 0.0 56.9 170.7#

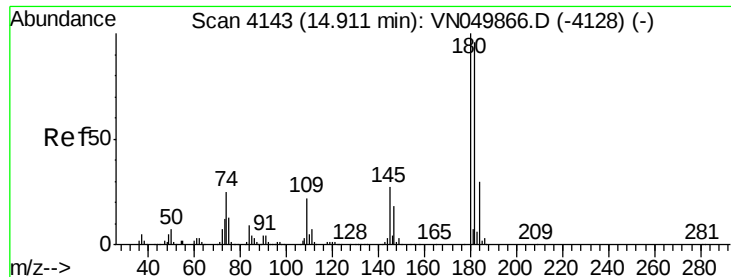


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

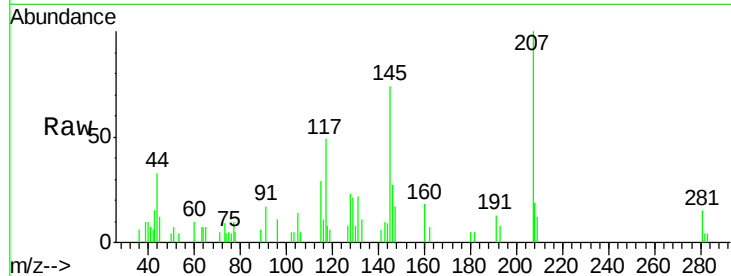




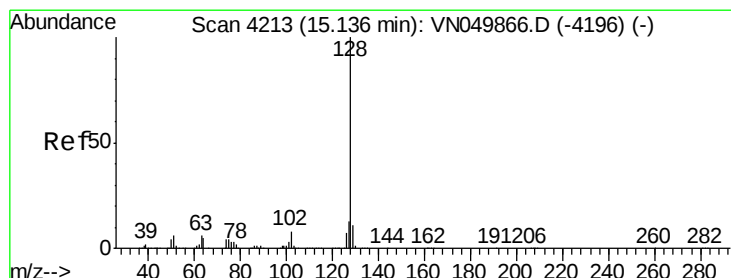
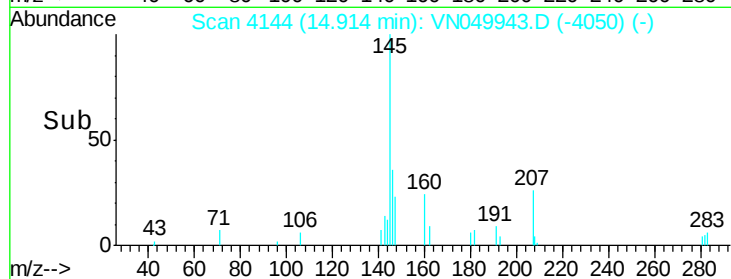
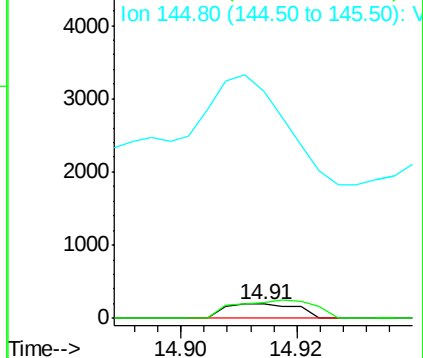
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.50 ug/l  
 RT: 14.91 min Scan# 4144  
 Delta R.T. 0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 5-B

Tot Ion:180 Resp: 168  
 Ion Ratio Lower Upper  
 180 100  
 182 143.5 47.3 141.9#  
 145 4869.6 14.4 43.0#

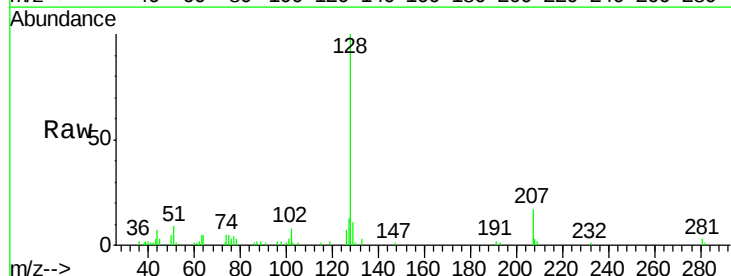


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V



#95  
 Naphthalene  
 Concen: 7.23 ug/l  
 RT: 15.14 min Scan# 4213  
 Delta R.T. 0.00 min  
 Lab File: VN049943.D  
 Acq: 20 Jul 2018 3:40

Tgt Ion:128 Resp: 39627  
 Ion Ratio Lower Upper  
 128 100  
 127 14.2 10.4 15.6  
 129 12.4 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

