

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070318\  
 Data File : VN049707.D  
 Acq On : 3 Jul 2018 21:06  
 Operator : MD\SY  
 Sample : PB110796ZHE#10  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 04 00:42:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062918W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 30 00:55:30 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1190604  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1986002  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1649209  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 612967   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 839420   | 53.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.78% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 698244   | 47.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.06%  |      |
| 50) Toluene-d8            | 10.09  | 98  | 2635017  | 45.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.68%  |      |
| 62) 4-Bromofluorobenzene  | 12.41  | 95  | 771513   | 38.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 77.76%  |      |

## Target Compounds

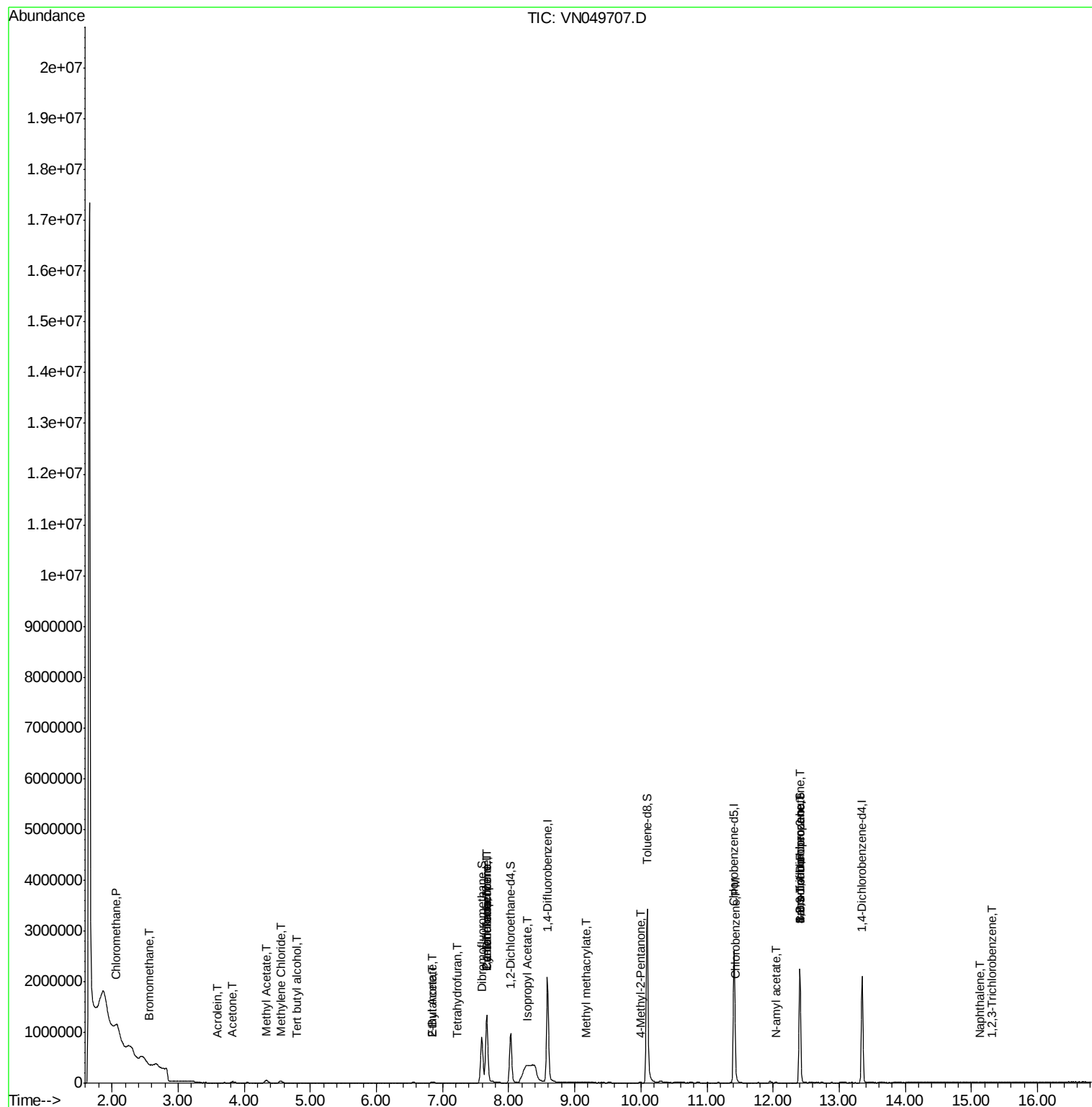
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 3) Chloromethane               | 2.06  | 50  | 4021   | 0.24      | ug/l   | 99     |
| 5) Bromomethane                | 2.57  | 94  | 2137   | 0.23      | ug/l # | 48     |
| 11) Tert butyl alcohol         | 4.79  | 59  | 1708   | 1.89      | ug/l # | 72     |
| 13) Acrolein                   | 3.60  | 56  | 268    | 0.32      | ug/l # | 46     |
| 16) Acetone                    | 3.82  | 43  | 42848  | 5.76      | ug/l   | 97     |
| 17) Carbon Disulfide           | 4.04  | 76  | 8611   | Below Cal | #      | 95     |
| 18) Methyl Acetate             | 4.33  | 43  | 96984  | 1.70      | ug/l   | 95     |
| 20) Methylene Chloride         | 4.55  | 84  | 28790  | 1.78      | ug/l   | 89     |
| 25) 2-Butanone                 | 6.85  | 43  | 20933  | 4.01      | ug/l   | 98     |
| 29) Tetrahydrofuran            | 7.21  | 42  | 877    | 0.26      | ug/l # | 54     |
| 31) Cyclohexane                | 7.67  | 56  | 22065  | 0.20      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 82310  | 3.68      | ug/l # | 48     |
| 37) Ethyl Acetate              | 6.85  | 43  | 20933  | 1.61      | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 104265 | 4.80      | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.28  | 43  | 724972 | 27.76     | ug/l # | 63     |
| 48) Methyl methacrylate        | 9.17  | 41  | 2360   | 0.20      | ug/l # | 40     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 3765   | 0.29      | ug/l   | 88     |
| 65) Chlorobenzene              | 11.44 | 112 | 9514   | 0.22      | ug/l   | 98     |
| 71) Bromoform                  | 12.41 | 173 | 6463   | 0.63      | ug/l # | 1      |
| 74) N-amyl acetate             | 12.04 | 43  | 4005   | 0.30      | ug/l # | 48     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83  | 30     | Below Cal | #      | 25     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 381408 | 38.80     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 381408 | 131.77    | ug/l # | 13     |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146 | 65     | Below Cal | #      | 25     |
| 88) 1,4-Dichlorobenzene        | 13.35 | 146 | 107    | Below Cal | #      | 1      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.29 | 75  | 30     | Below Cal | #      | 1      |
| 95) Naphthalene                | 15.13 | 128 | 503    | 4.06      | ug/l # | 69     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180 | 173    | 1.66      | ug/l # | 12     |

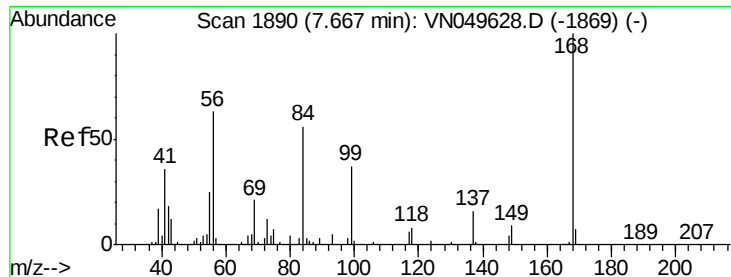
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070318\  
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MSVOA\_N  
ClientSampleId :

Quant Time: Jul 04 00:42:33 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062918W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 30 00:55:30 2018  
Response via : Initial Calibration

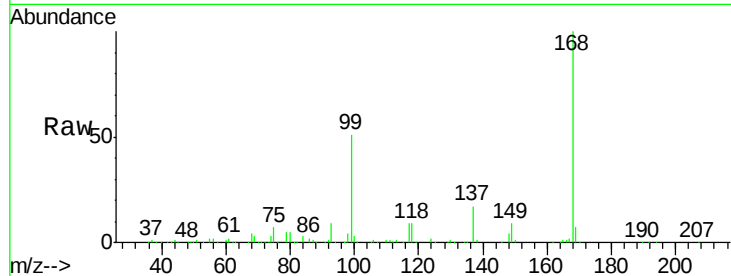




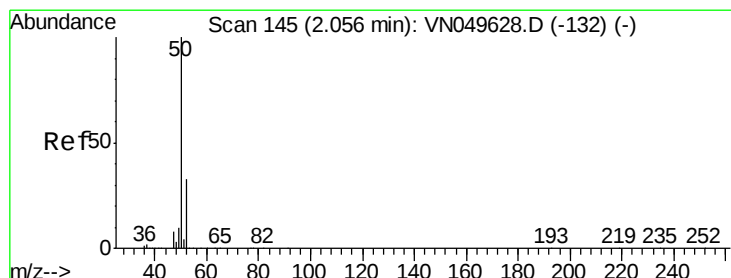
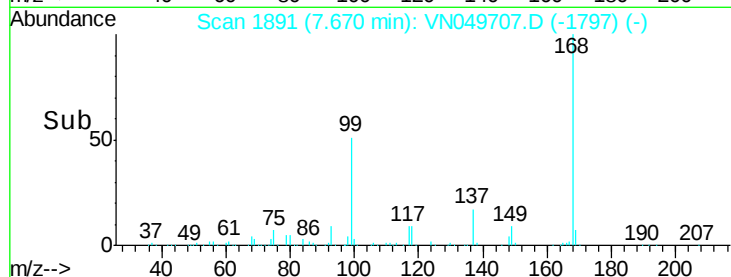
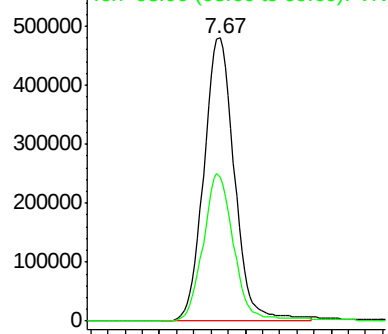
#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.67 min Scan# 1891  
Delta R.T. 0.00 min  
Lab File: VN049707.D  
Acq: 3 Jul 2018 21:06

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:168 Resp: 1190604  
Ion Ratio Lower Upper  
168 100  
99 50.9 40.6 61.0

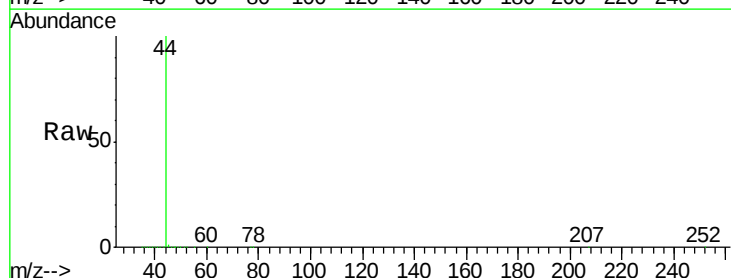


Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): VN

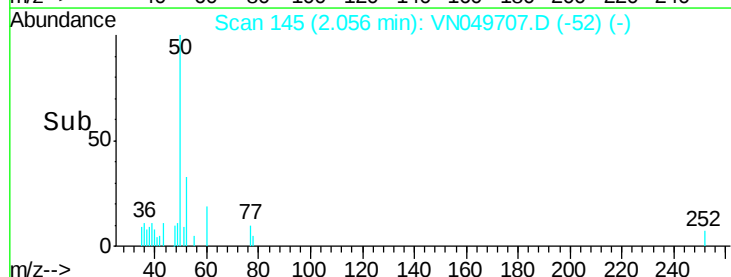
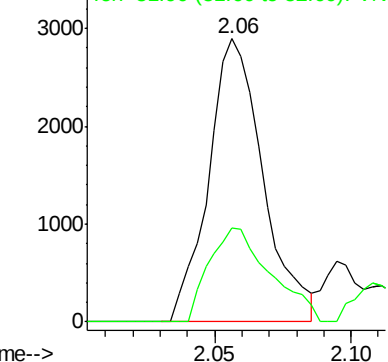


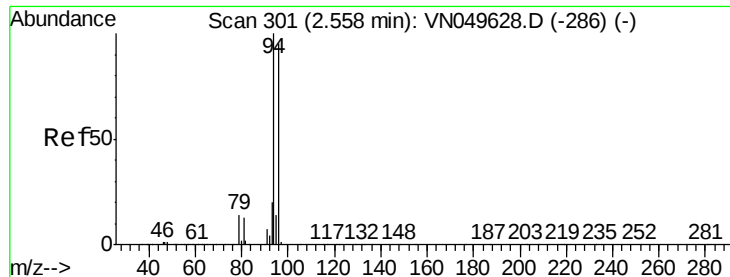
#3  
Chloromethane  
Concen: 0.24 ug/l  
RT: 2.06 min Scan# 145  
Delta R.T. 0.00 min  
Lab File: VN049707.D  
Acq: 3 Jul 2018 21:06

Tgt Ion: 50 Resp: 4021  
Ion Ratio Lower Upper  
50 100  
52 33.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): V  
Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 0.23 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.02 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

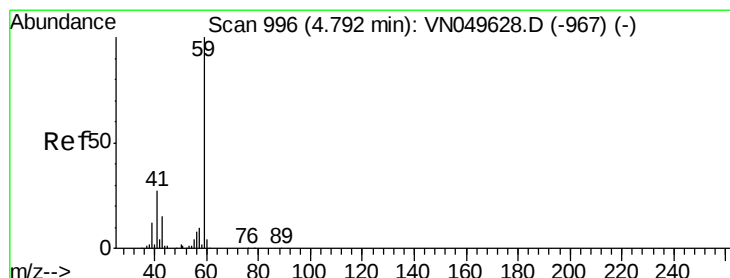
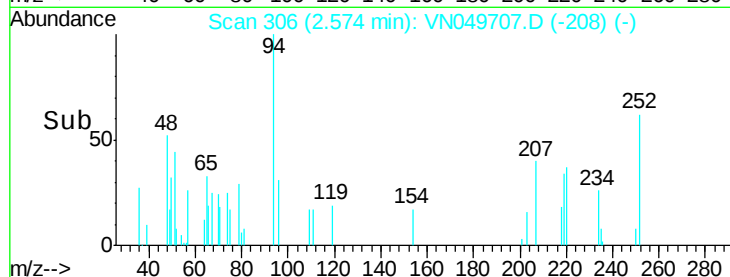
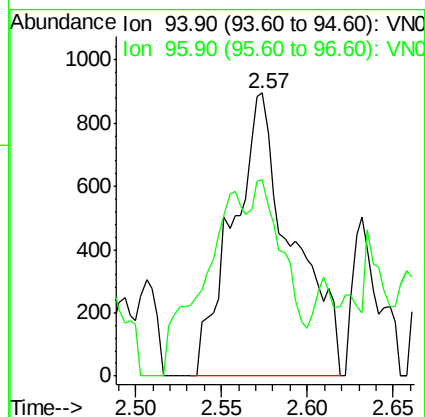
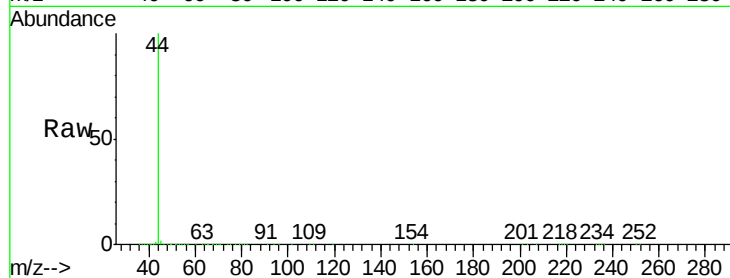
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 94 Resp: 2137

Ion Ratio Lower Upper

94 100

96 44.5 75.7 113.5#



#11

Tert butyl alcohol

Concen: 1.89 ug/l

RT: 4.79 min Scan# 994

Delta R.T. -0.01 min

Lab File: VN049707.D

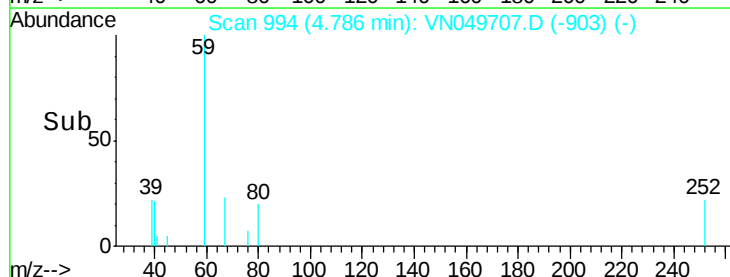
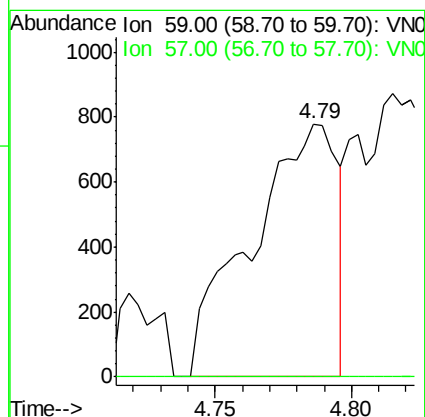
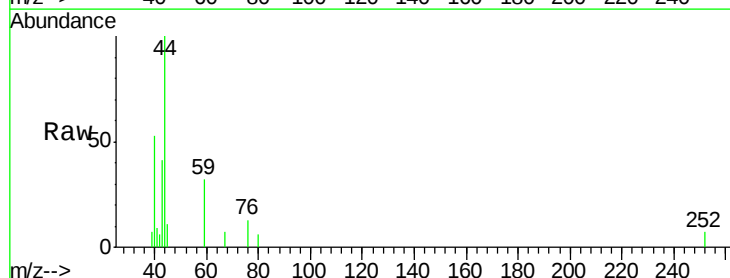
Acq: 3 Jul 2018 21:06

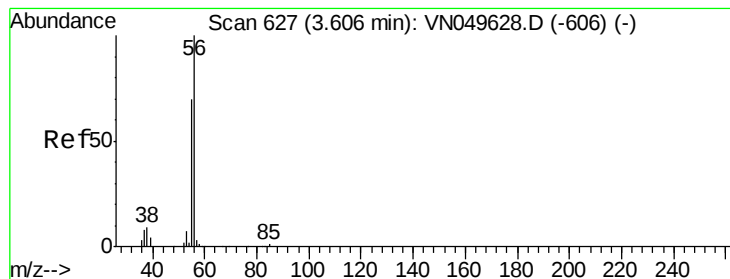
Tgt Ion: 59 Resp: 1708

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.32 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

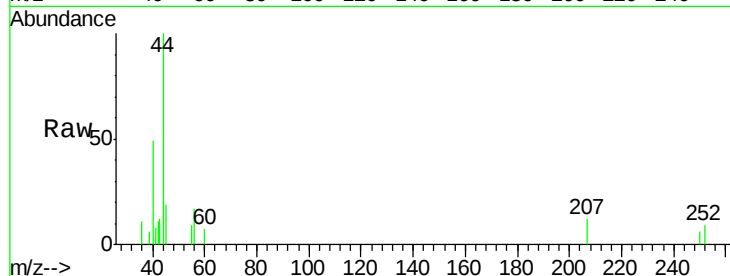
ClientSampled :

Tot Ion: 56 Resp: 268

Ion Ratio Lower Upper

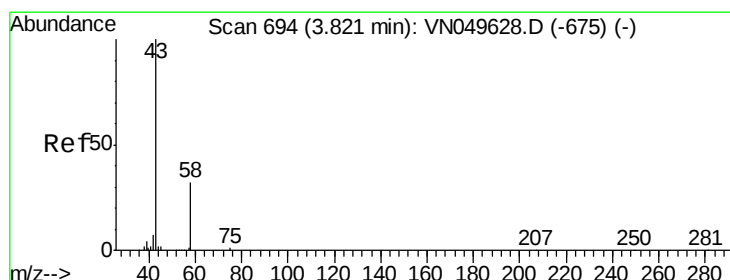
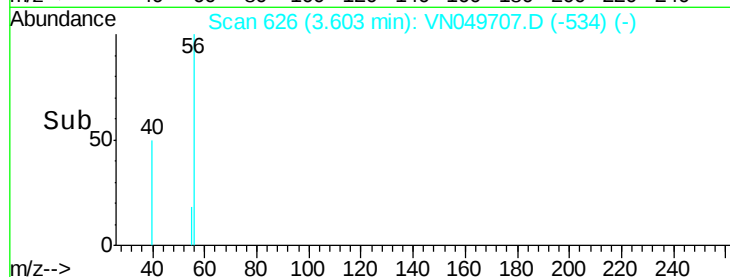
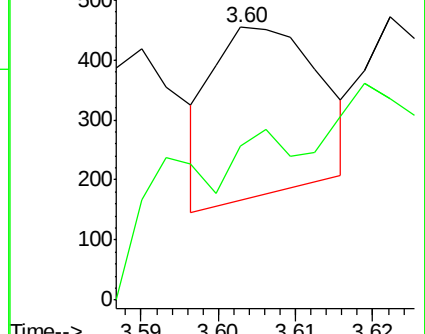
56 100

55 114.2 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.76 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049707.D

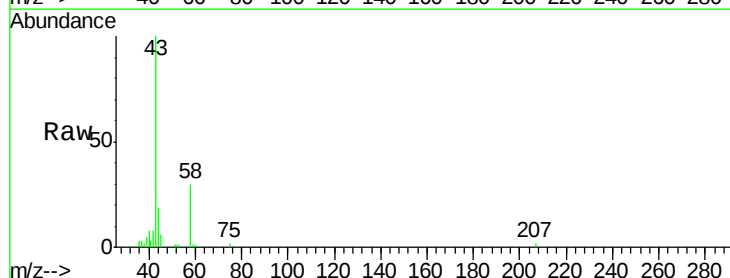
Acq: 3 Jul 2018 21:06

Tgt Ion: 43 Resp: 42848

Ion Ratio Lower Upper

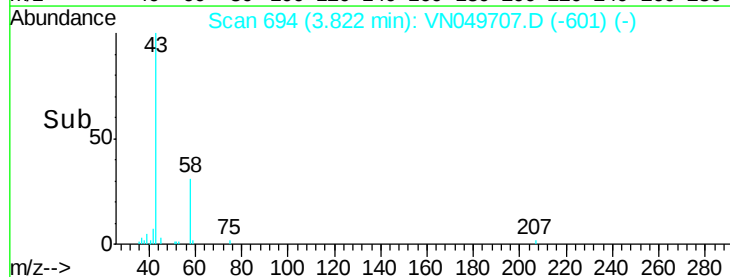
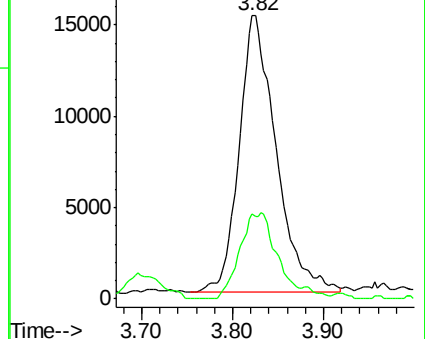
43 100

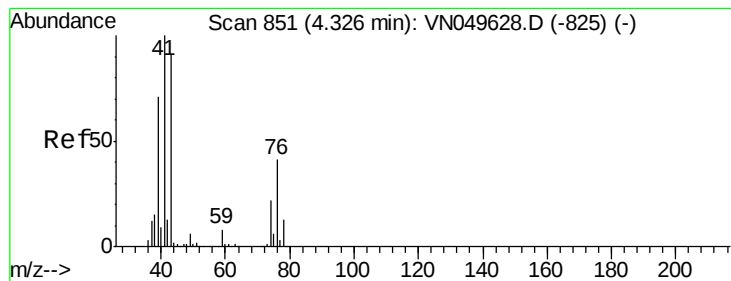
58 30.7 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methvl Acetate

Concen: 1.70 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

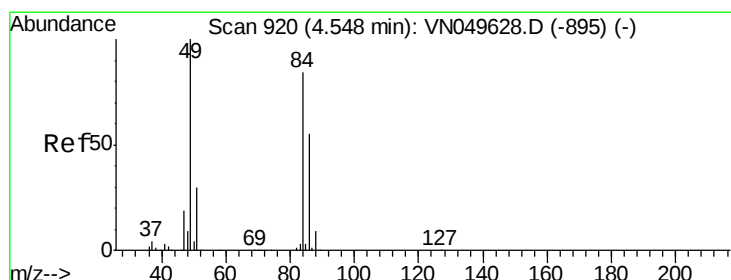
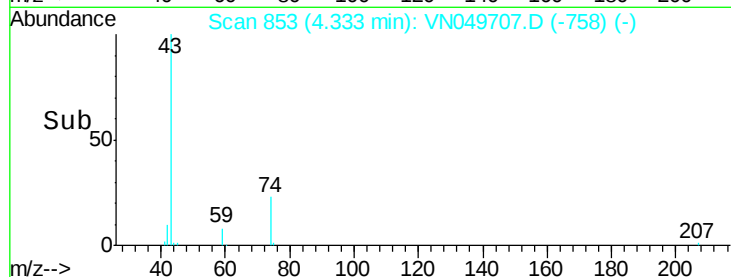
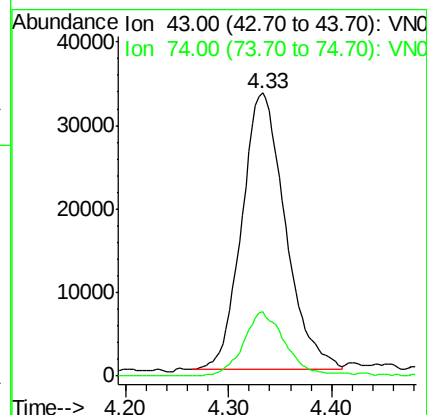
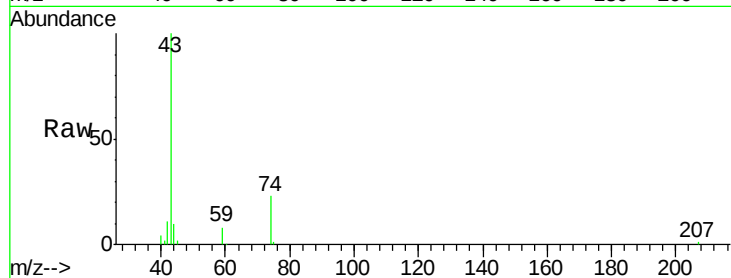
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 96984

Ion Ratio Lower Upper

43 100

74 22.2 19.8 29.8



#20

Methylene Chloride

Concen: 1.78 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Tgt Ion: 84 Resp: 28790

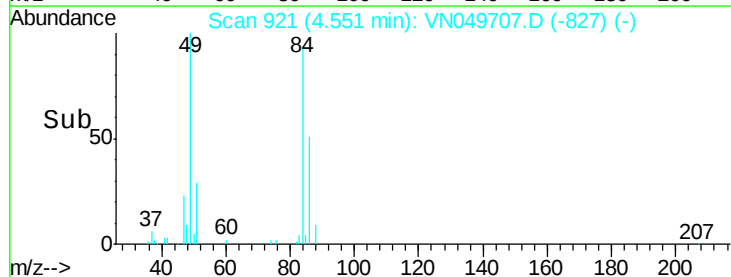
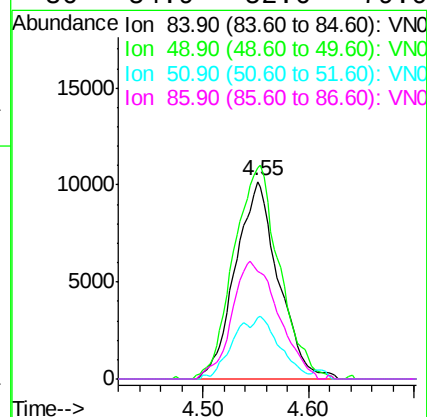
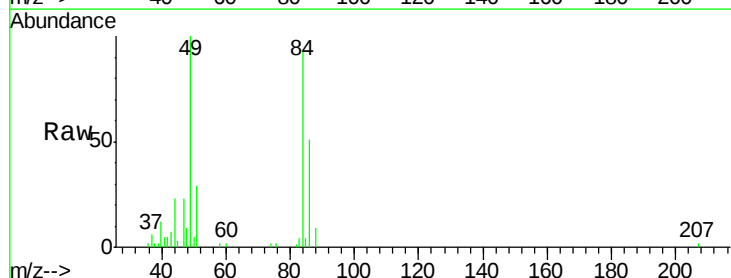
Ion Ratio Lower Upper

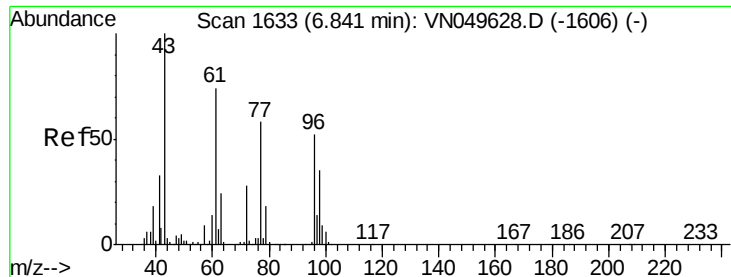
84 100

49 107.2 95.4 143.2

51 31.4 28.4 42.6

86 54.9 52.6 79.0





#25

2-Butanone

Concen: 4.01 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

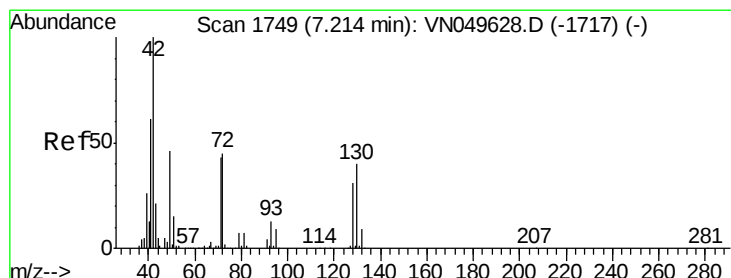
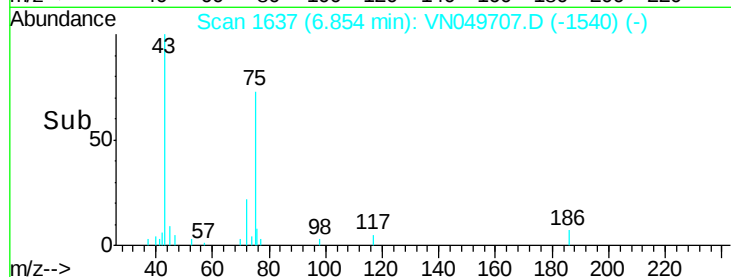
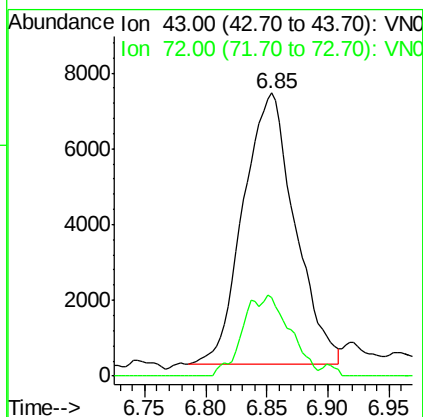
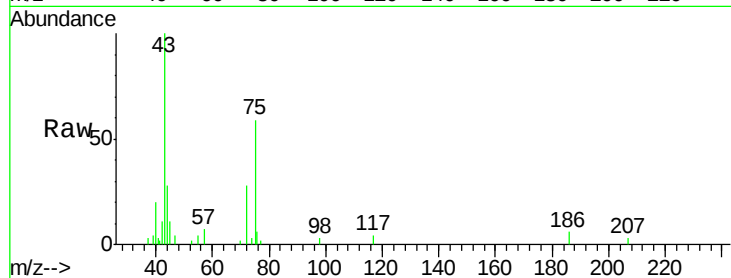
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 20933

Ion Ratio Lower Upper

43 100

72 28.9 22.1 33.1



#29

Tetrahydrofuran

Concen: 0.26 ug/l

RT: 7.21 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

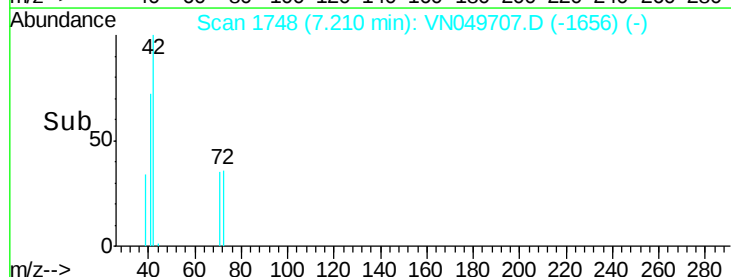
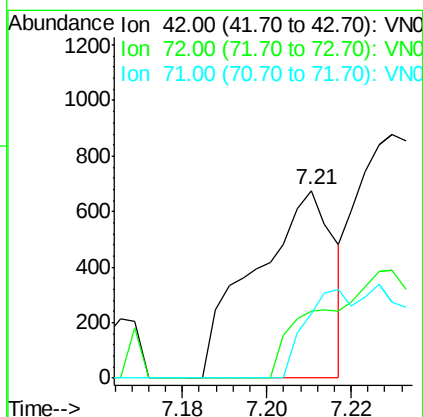
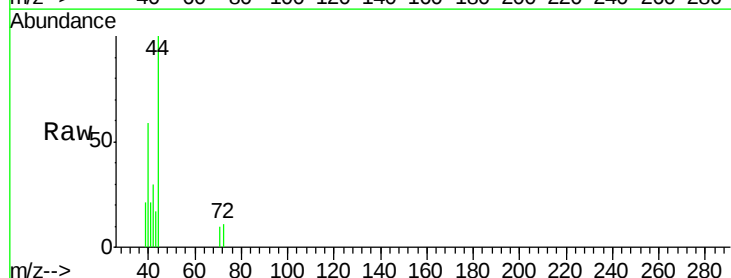
Tgt Ion: 42 Resp: 877

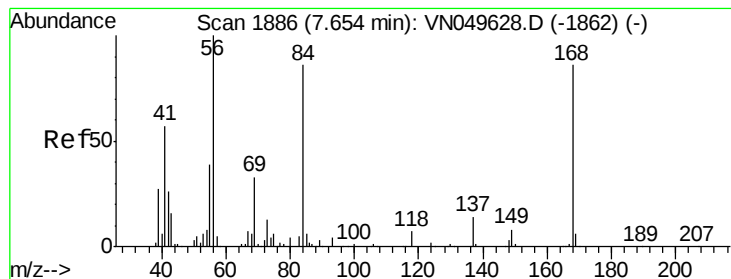
Ion Ratio Lower Upper

42 100

72 0.0 35.6 53.4#

71 28.2 34.0 51.0#





#31

Cyclohexane

Concen: 0.20 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

ClientSampled :

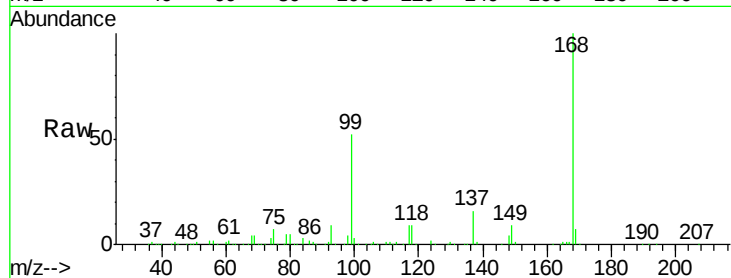
Tot Ion: 56 Resp: 22065

Ion Ratio Lower Upper

56 100

69 185.4 26.6 40.0#

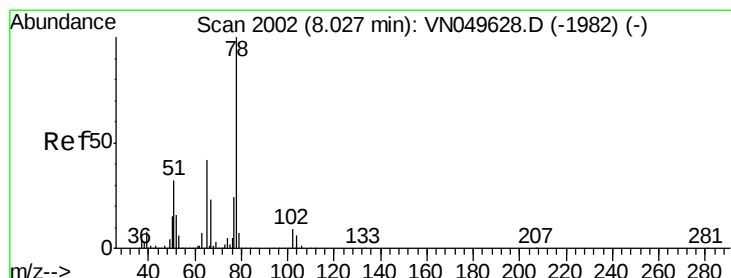
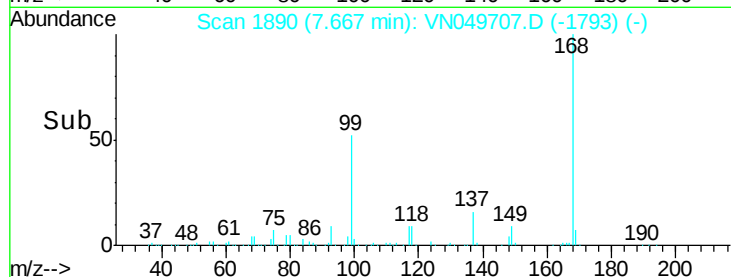
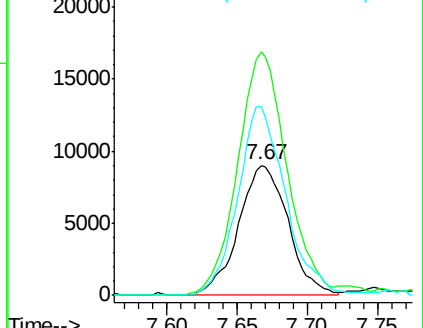
84 145.1 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049628.D (-1862) (-)

Ion 69.00 (68.70 to 69.70): VN049628.D (-1862) (-)

Ion 84.00 (83.70 to 84.70): VN049628.D (-1862) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.39 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049707.D

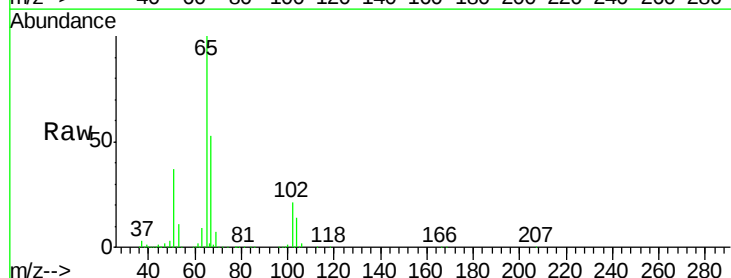
Acq: 3 Jul 2018 21:06

Tgt Ion: 65 Resp: 839420

Ion Ratio Lower Upper

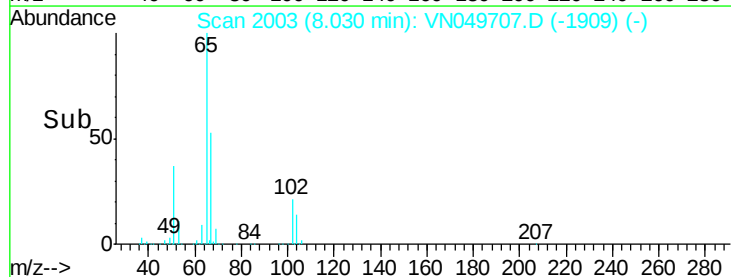
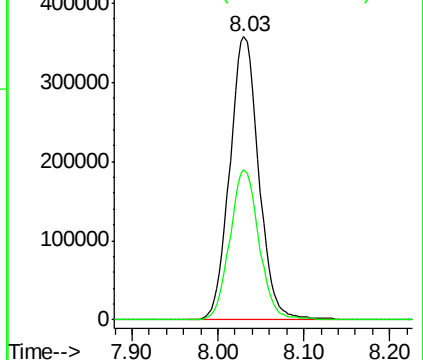
65 100

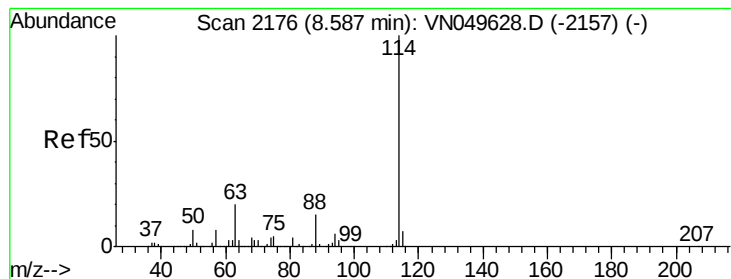
67 53.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049628.D (-1982) (-)

Ion 66.90 (66.60 to 67.60): VN049628.D (-1982) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

ClientSampleId :

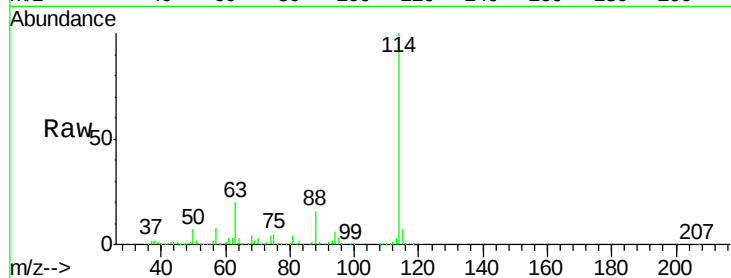
Tot Ion:114 Resp: 1986002

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.8

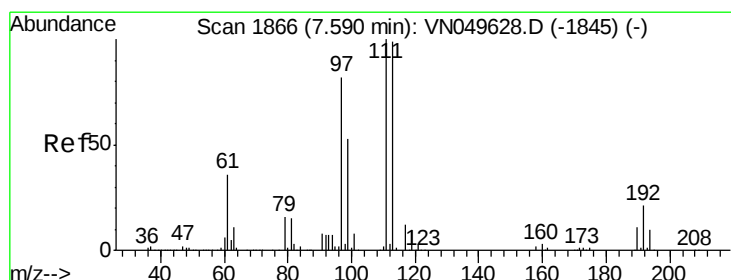
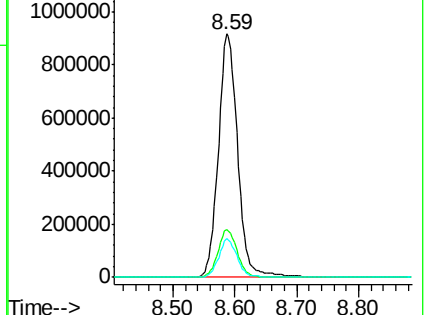
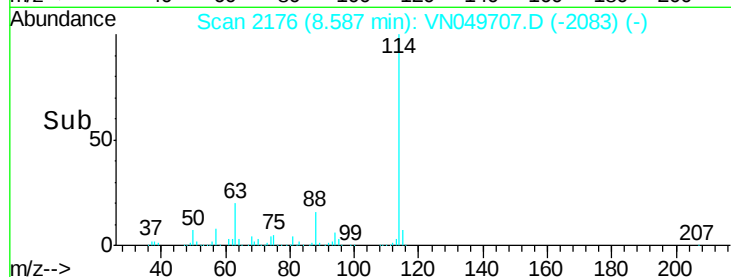
88 15.7 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.03 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

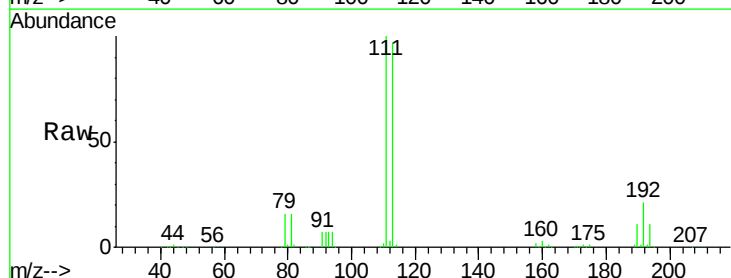
Tgt Ion:113 Resp: 698244

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

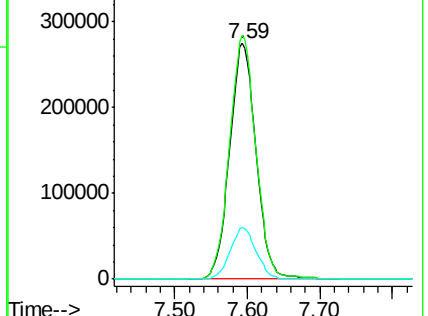
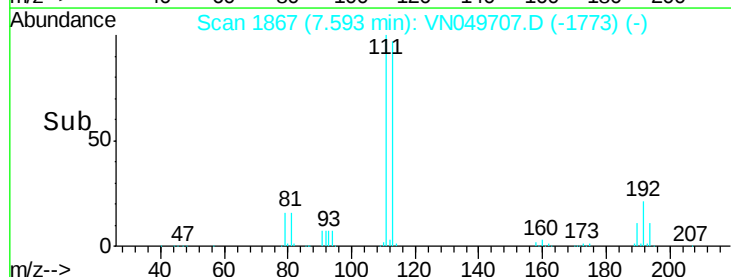
192 21.4 17.8 26.6

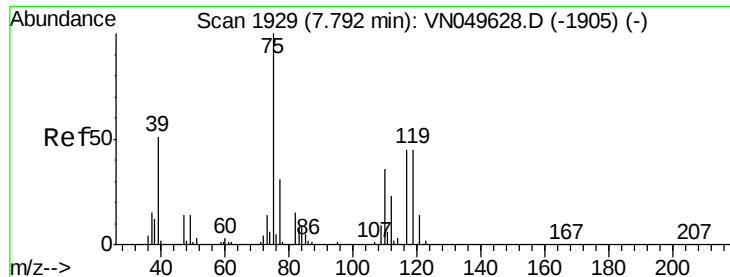


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

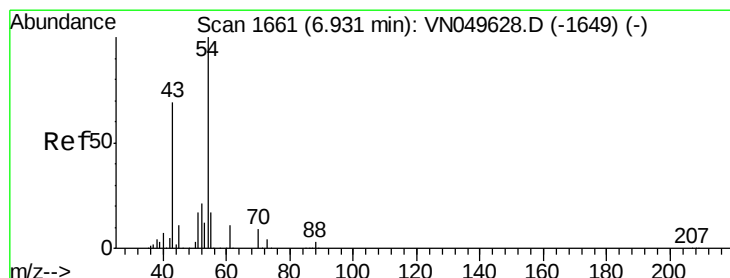
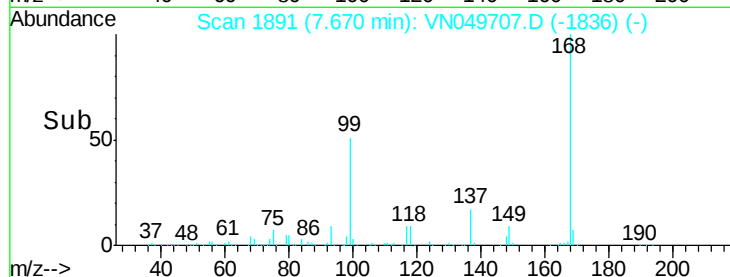
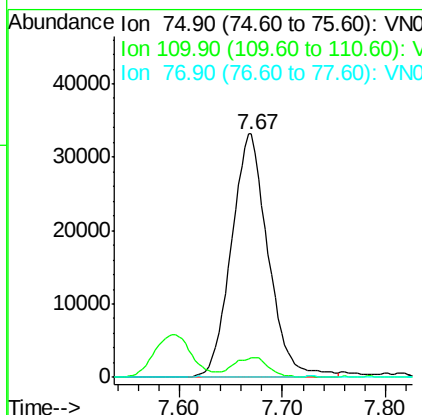
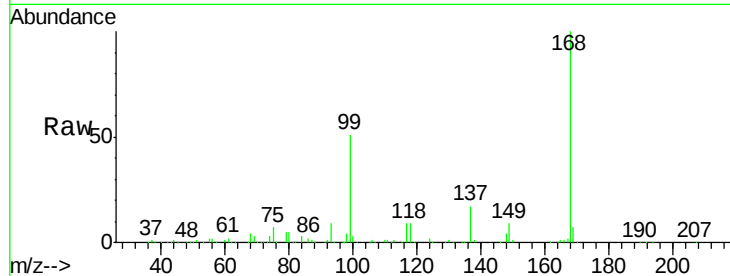




#36  
 1,1-Dichloropropene  
 Concen: 3.68 ug/l  
 RT: 7.67 min Scan# 1891  
 Delta R.T. -0.12 min  
 Lab File: VN049707.D  
 Acq: 3 Jul 2018 21:06

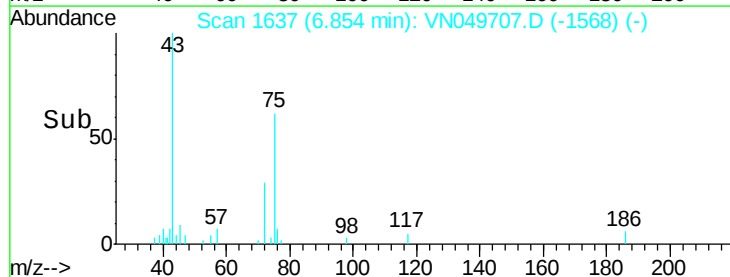
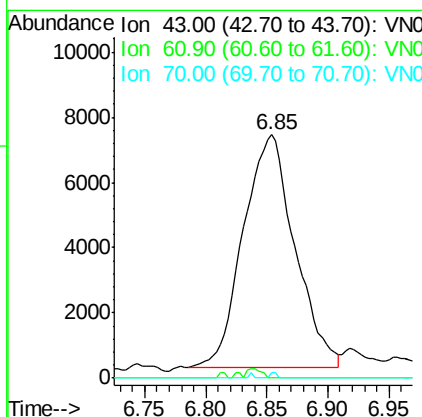
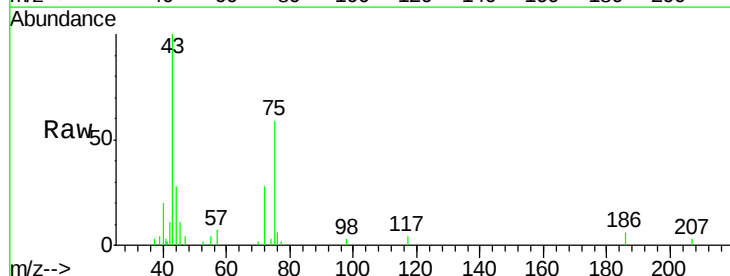
Instrument :  
 MSVOA\_N  
 ClientSampled :

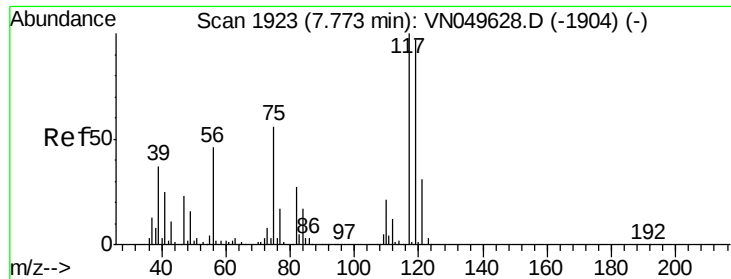
| Tot Ion   | 75    | Resp  | 82310 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.1   | 18.1  | 54.4# |
| 77        | 0.0   | 24.9  | 37.3# |



#37  
 Ethyl Acetate  
 Concen: 1.61 ug/l  
 RT: 6.85 min Scan# 1637  
 Delta R.T. -0.08 min  
 Lab File: VN049707.D  
 Acq: 3 Jul 2018 21:06

| Tgt Ion   | 43    | Resp  | 20933 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 0.0   | 11.7  | 17.5# |
| 70        | 0.3   | 8.4   | 12.6# |

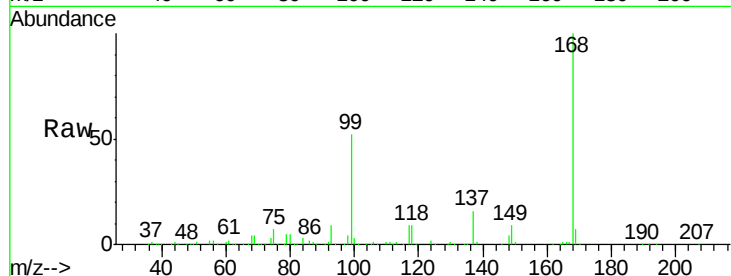




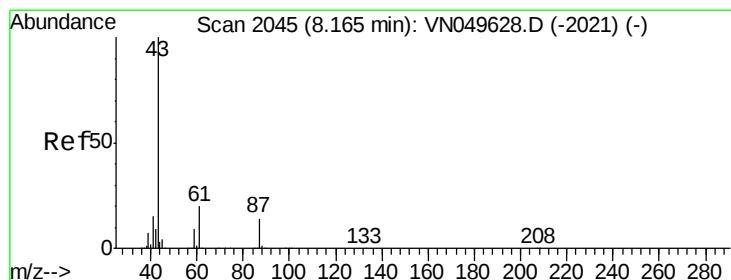
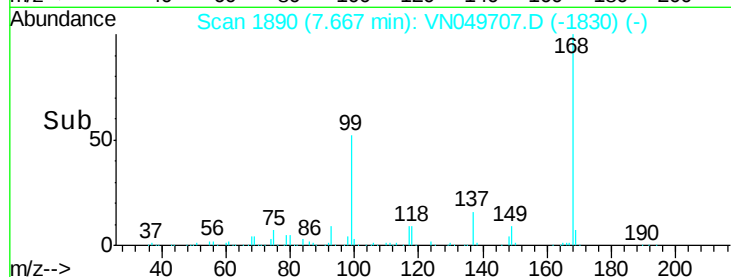
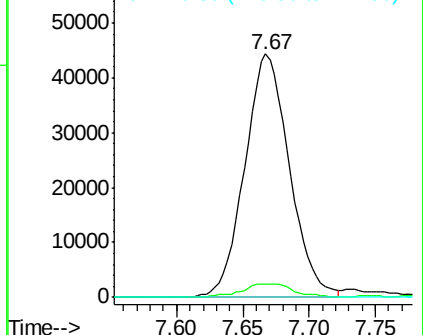
#38  
Carbon Tetrachloride  
Concen: 4.80 ug/l  
RT: 7.67 min Scan# 1890  
Delta R.T. -0.11 min  
Lab File: VN049707.D  
Acq: 3 Jul 2018 21:06

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 104265  
Ion Ratio Lower Upper  
117 100  
119 5.4 77.2 115.8#  
121 0.0 25.0 37.6#

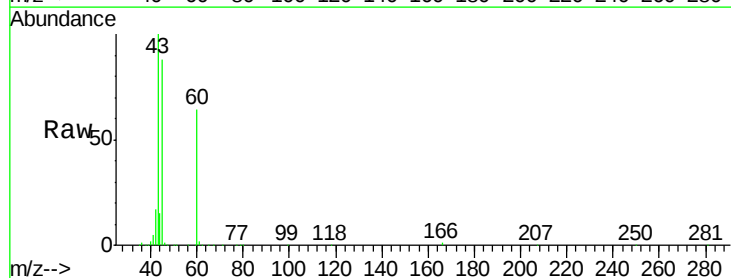


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

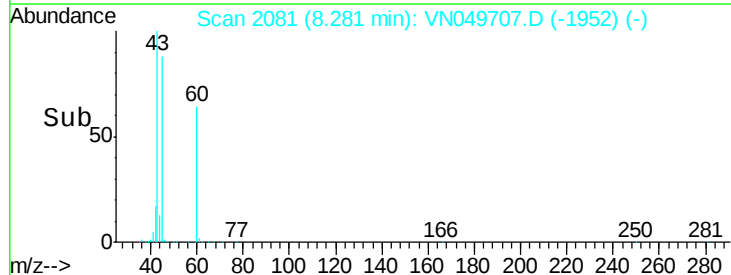
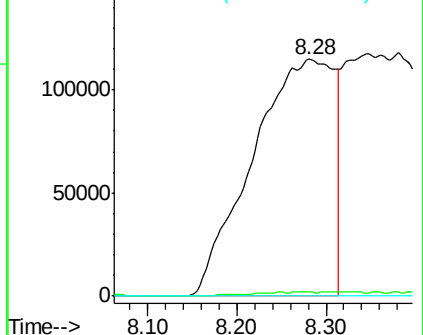


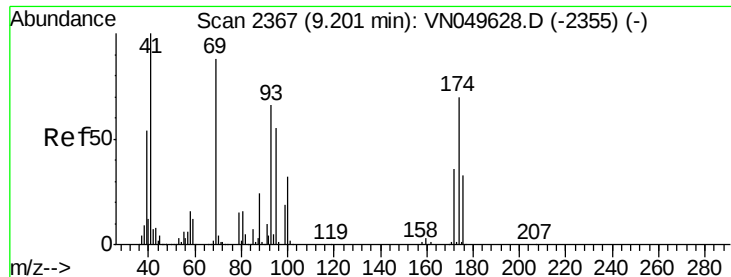
#43  
Isopropyl Acetate  
Concen: 27.76 ug/l  
RT: 8.28 min Scan# 2081  
Delta R.T. 0.12 min  
Lab File: VN049707.D  
Acq: 3 Jul 2018 21:06

Tgt Ion: 43 Resp: 724972  
Ion Ratio Lower Upper  
43 100  
61 0.1 14.9 22.3#  
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 61.00 (60.70 to 61.70): V  
Ion 87.00 (86.70 to 87.70): V





#48

Methyl methacrylate

Concen: 0.20 ug/l

RT: 9.17 min Scan# 2357

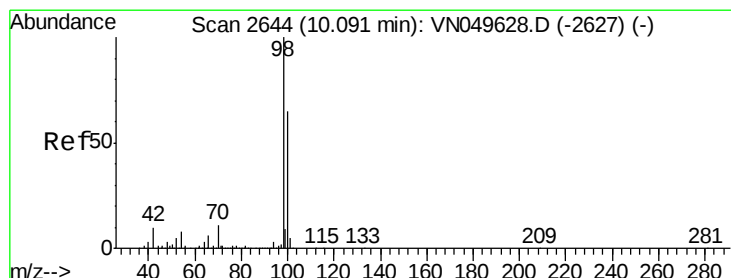
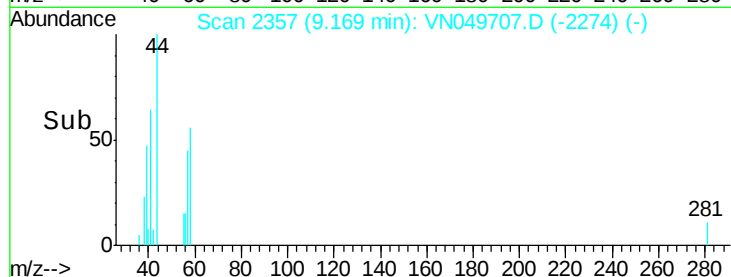
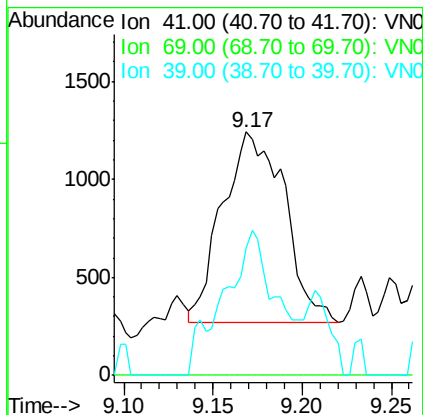
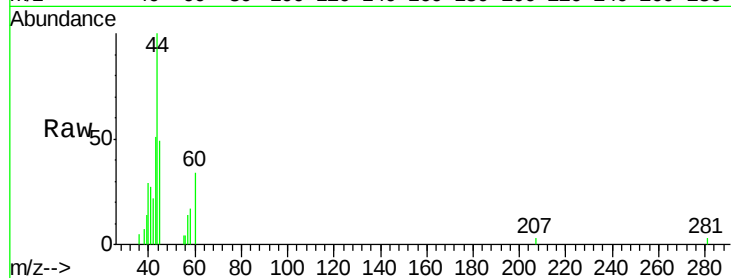
Delta R.T. -0.03 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 41 Resp: 2360  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.5 107.3#  
39 58.3 44.7 67.1



#50

Toluene-d8

Concen: 45.34 ug/l

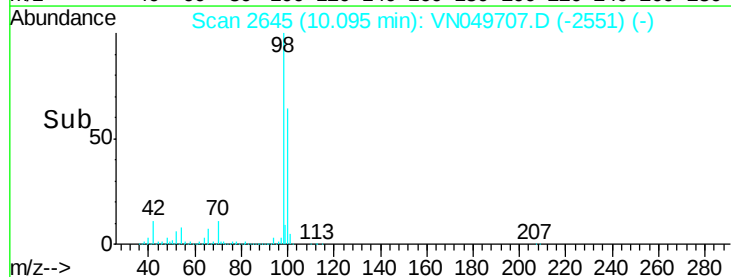
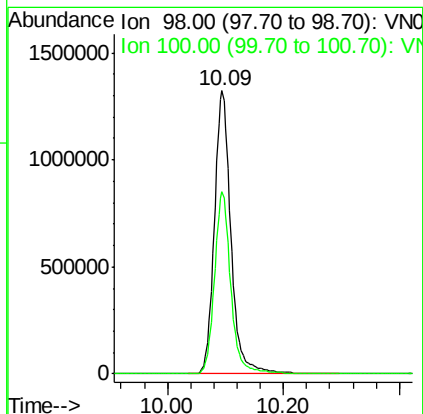
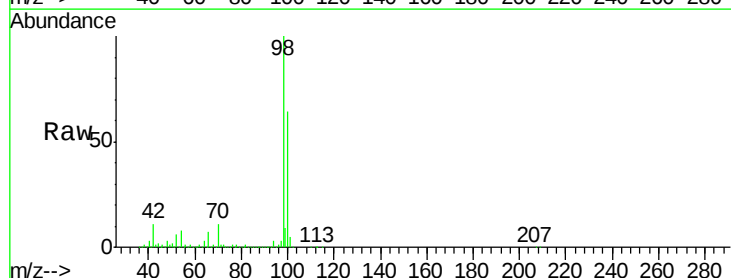
RT: 10.09 min Scan# 2645

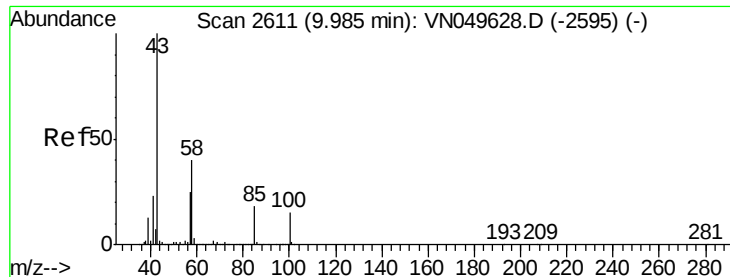
Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Tgt Ion: 98 Resp: 2635017  
Ion Ratio Lower Upper  
98 100  
100 63.4 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

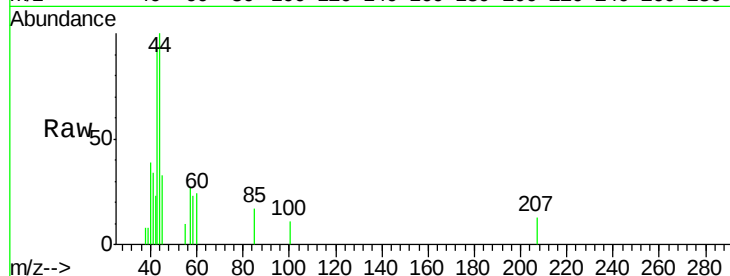
ClientSampleId :

Tot Ion: 43 Resp: 3765

Ion Ratio Lower Upper

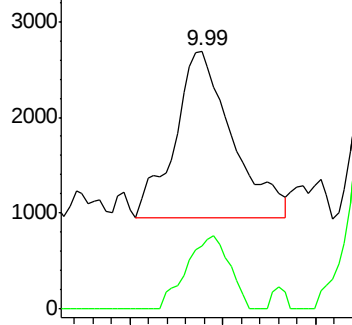
43 100

58 32.6 31.8 47.8

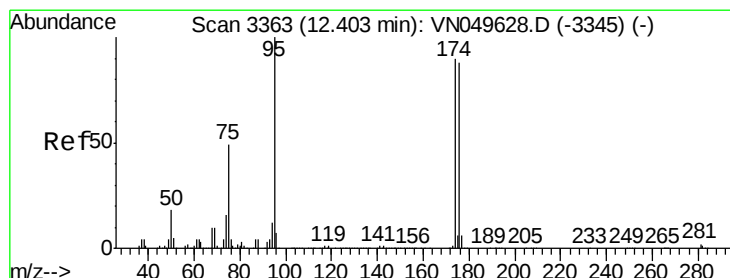
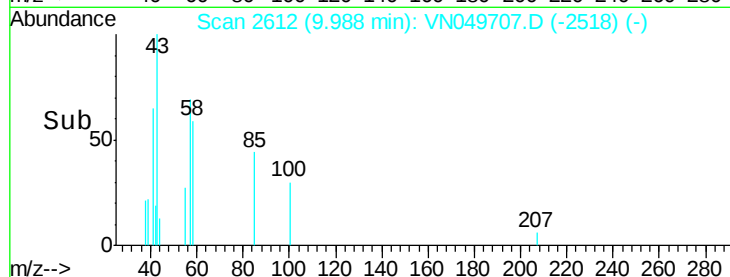


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#62

4-Bromofluorobenzene

Concen: 38.88 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

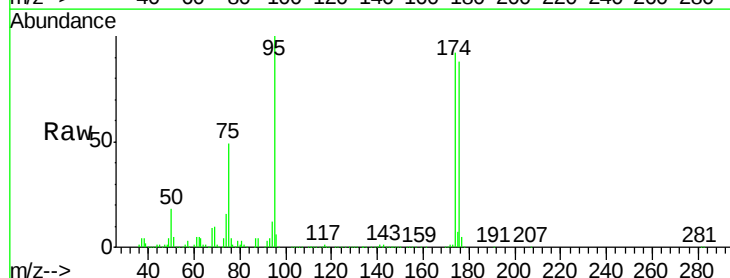
Tgt Ion: 95 Resp: 771513

Ion Ratio Lower Upper

95 100

174 91.6 0.0 179.6

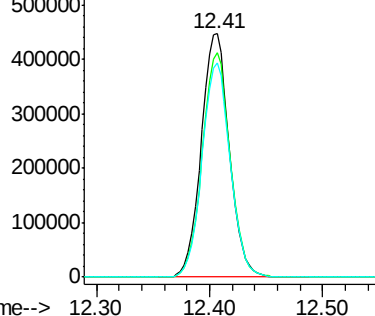
176 88.1 0.0 174.0



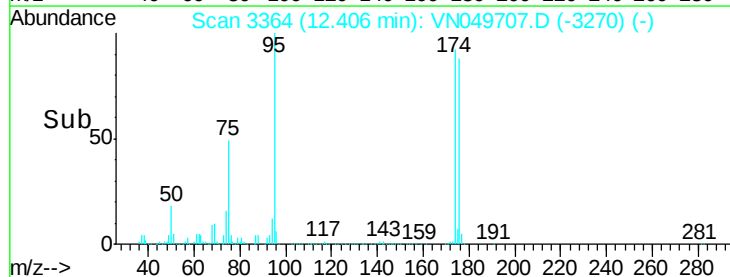
Abundance Ion 94.90 (94.60 to 95.60): VN0

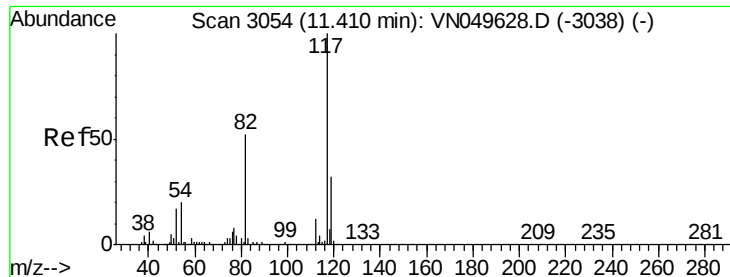
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

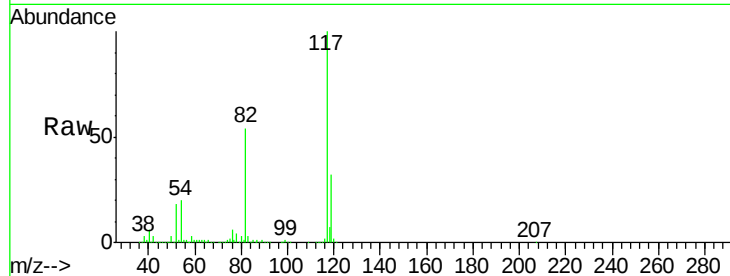




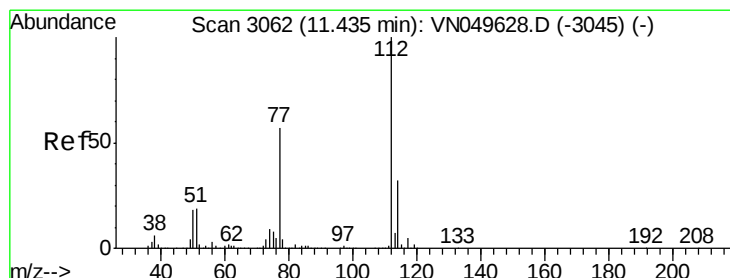
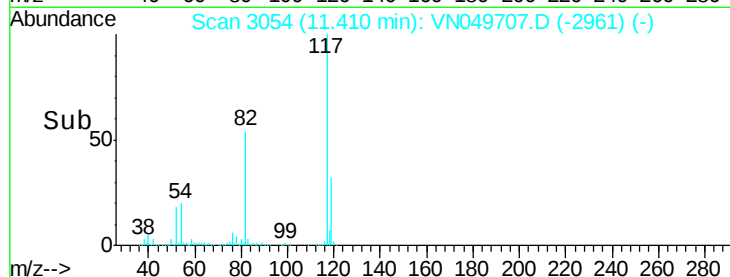
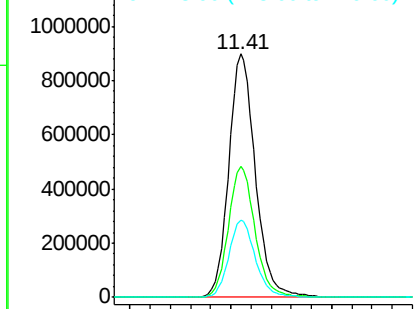
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN049707.D  
Acq: 3 Jul 2018 21:06

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 1649209  
Ion Ratio Lower Upper  
117 100  
82 53.7 41.9 62.9  
119 31.8 25.4 38.2

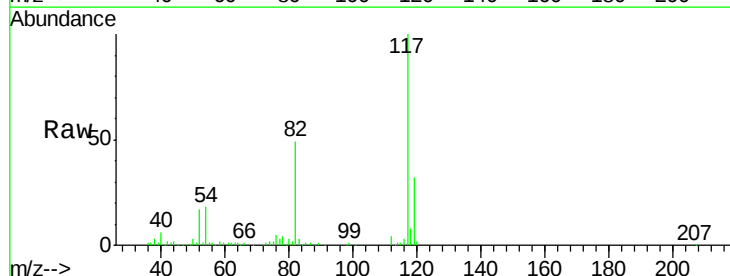


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

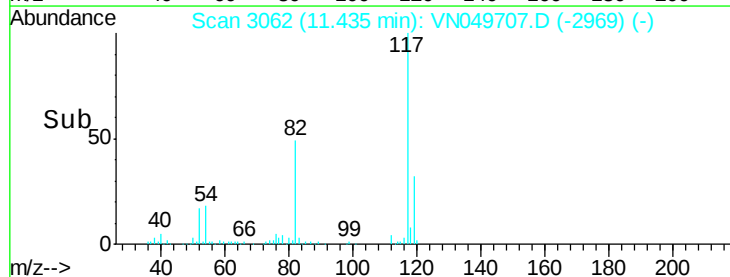
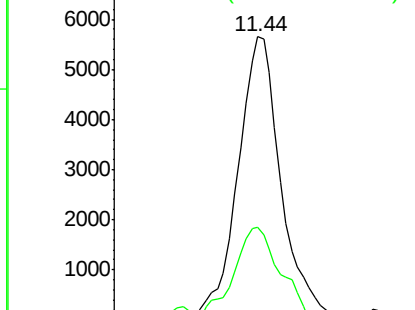


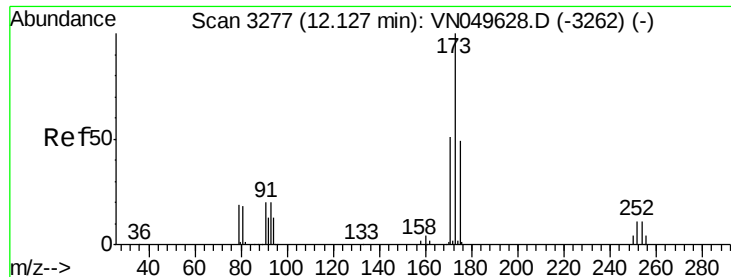
#65  
Chlorobenzene  
Concen: 0.22 ug/l  
RT: 11.44 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VN049707.D  
Acq: 3 Jul 2018 21:06

Tgt Ion:112 Resp: 9514  
Ion Ratio Lower Upper  
112 100  
114 32.9 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.63 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

ClientSampled :

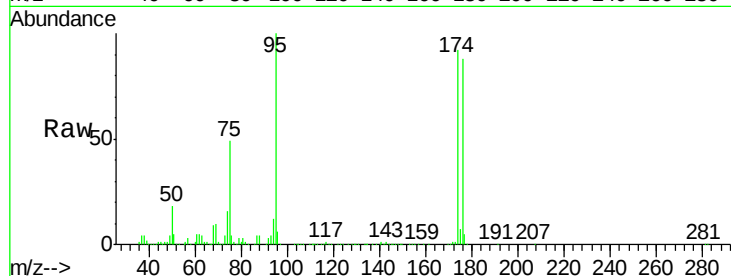
Tot Ion:173 Resp: 6463

Ion Ratio Lower Upper

173 100

175 627.2 24.6 73.8#

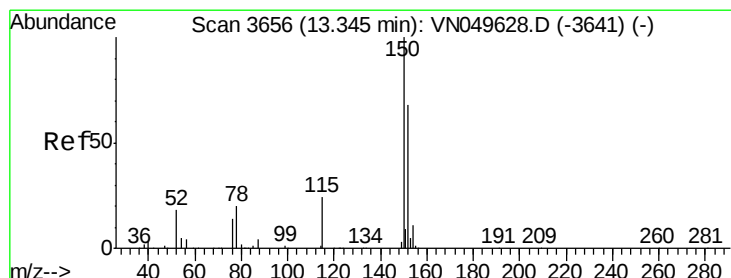
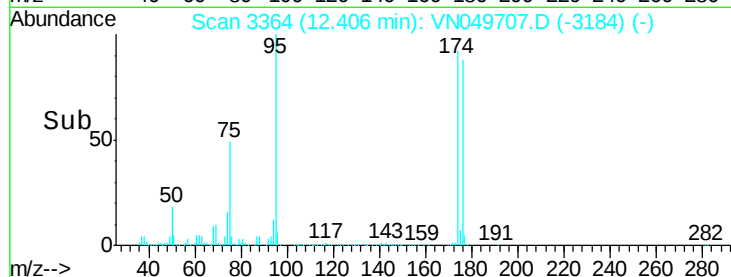
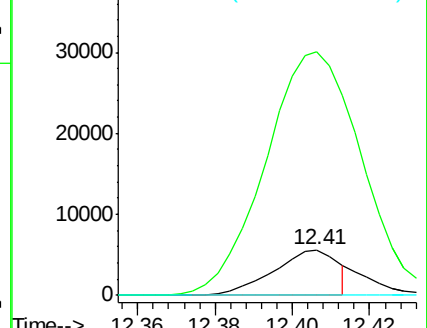
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

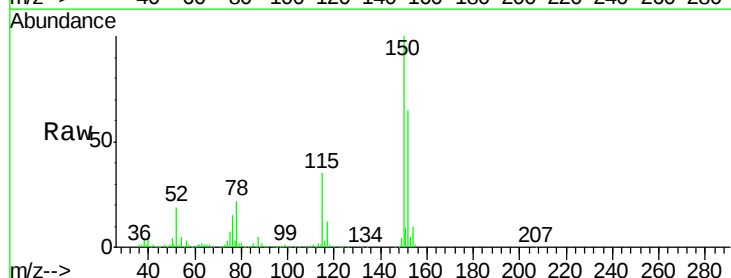
Tgt Ion:152 Resp: 612967

Ion Ratio Lower Upper

152 100

115 56.2 28.1 84.2

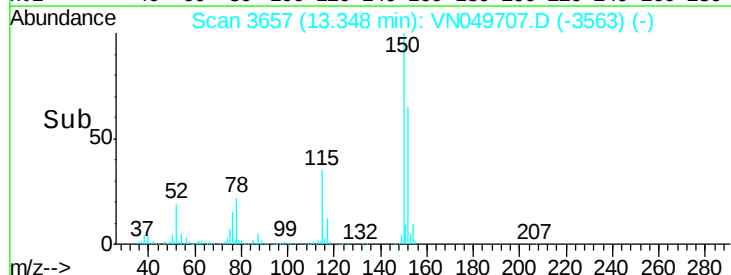
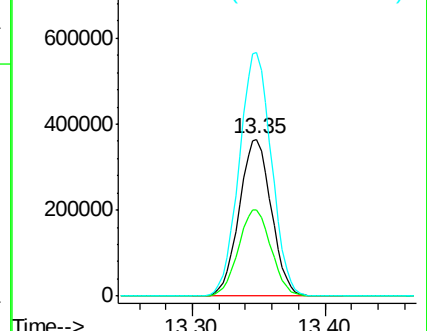
150 156.3 0.0 347.6

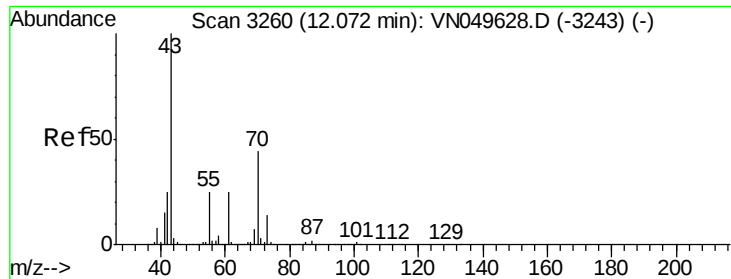


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.30 ug/l

RT: 12.04 min Scan# 3249

Delta R.T. -0.04 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 43 Resp: 4005

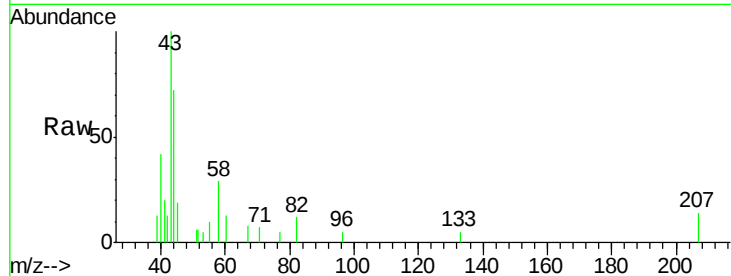
Ion Ratio Lower Upper

43 100

70 0.0 34.8 52.2#

55 11.1 20.9 31.3#

61 0.0 19.9 29.9#

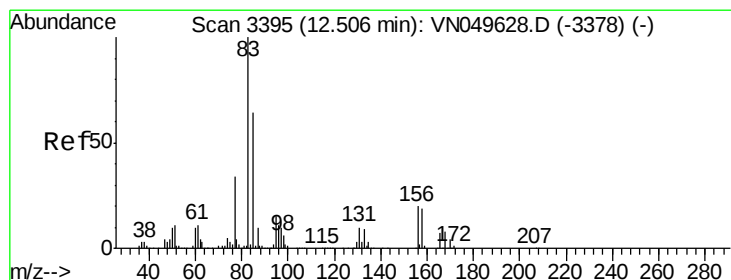
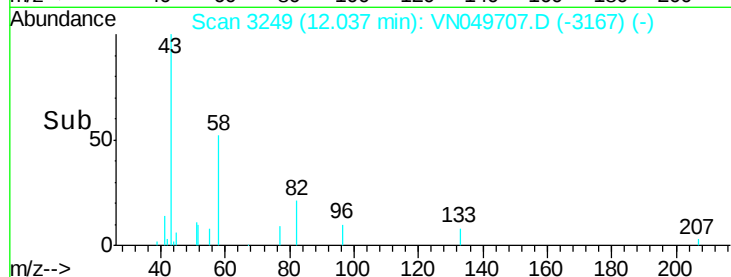
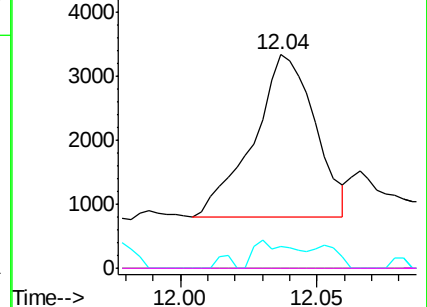


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

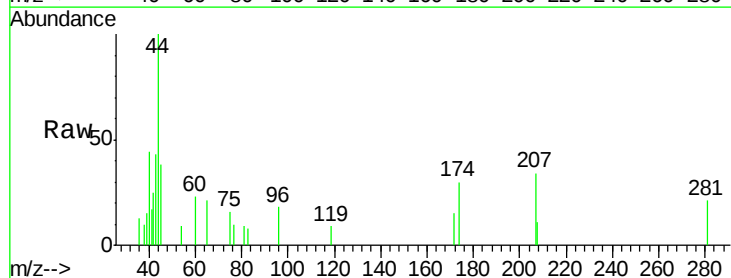
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

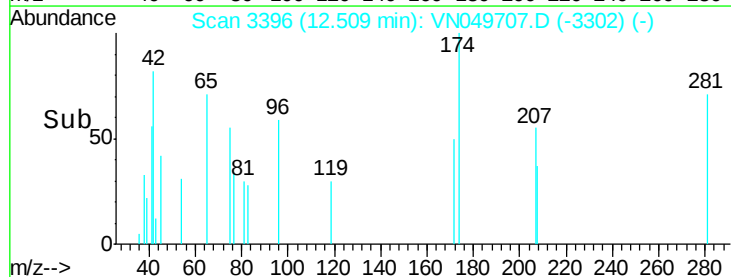
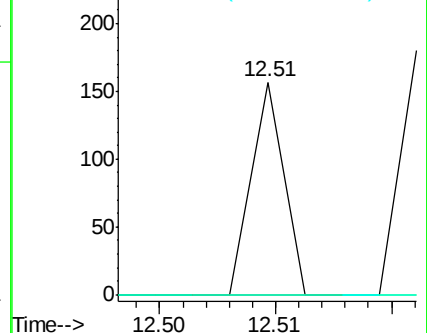
85 0.0 32.5 97.4#

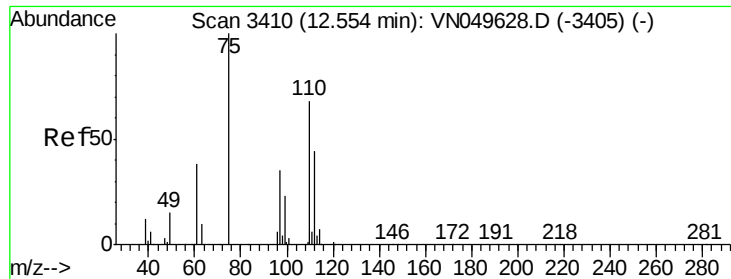


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 38.80 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Instrument :

MSVOA\_N

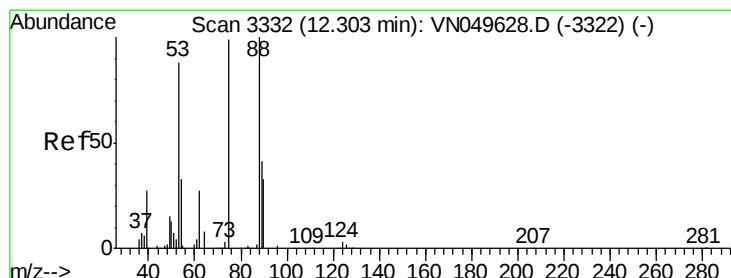
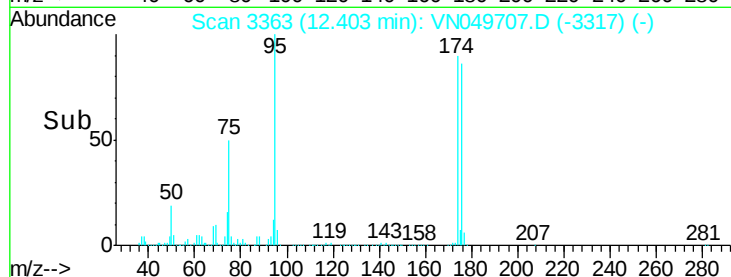
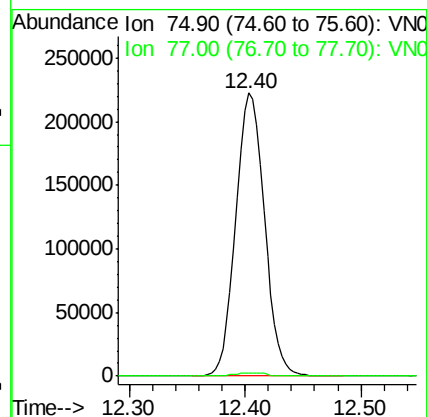
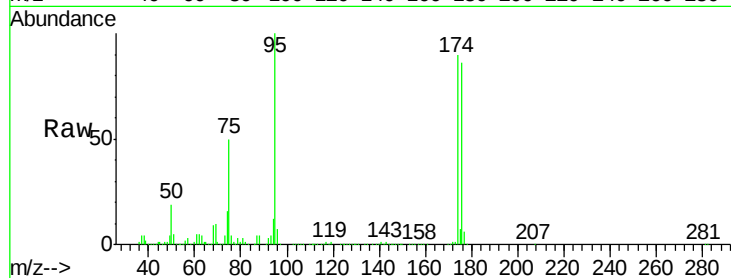
ClientSampleId :

Tot Ion: 75 Resp: 381408

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 131.77 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

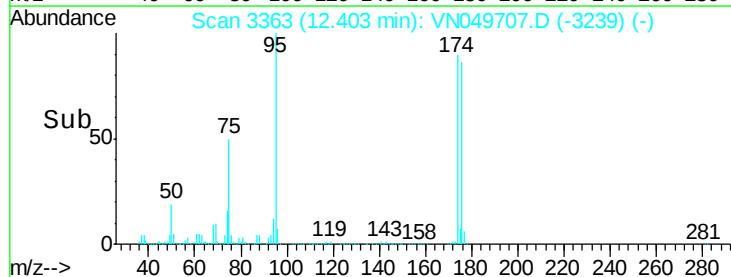
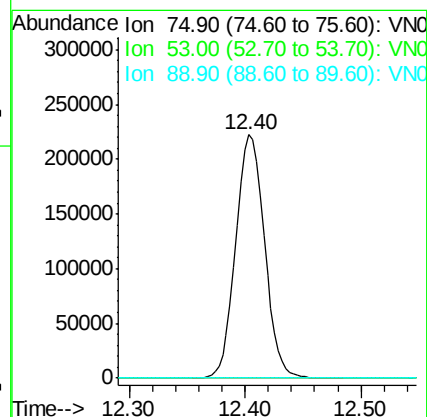
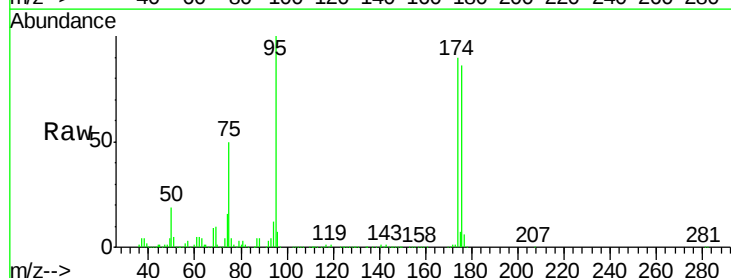
Tgt Ion: 75 Resp: 381408

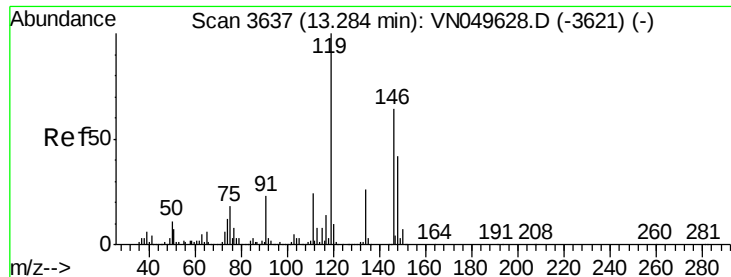
Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 35.9 53.9#





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.29 min Scan# 3639

Delta R.T. 0.01 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

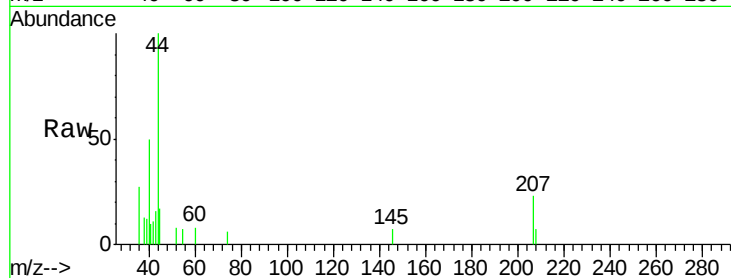
Instrument :

MSVOA\_N

ClientSampled :

Tot Ion:146 Resp: 65

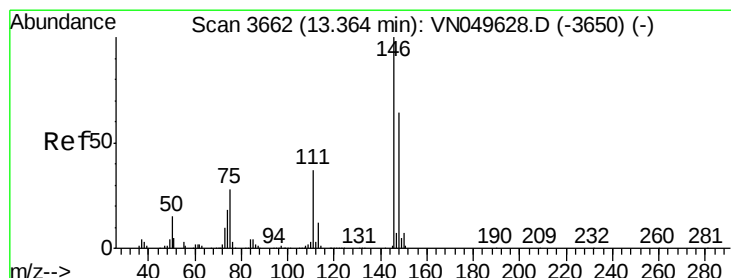
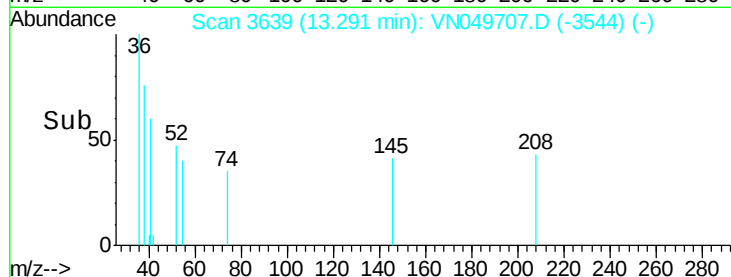
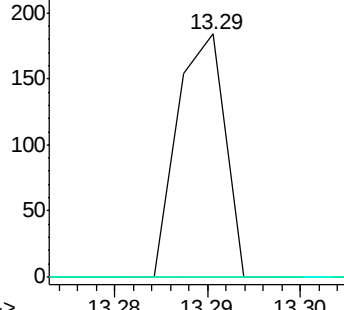
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 0.0   | 19.0  | 57.0# |
| 148 | 0.0   | 32.5  | 97.5# |



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.35 min Scan# 3659

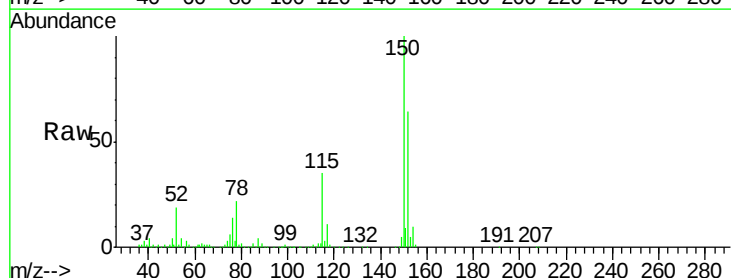
Delta R.T. -0.01 min

Lab File: VN049707.D

Acq: 3 Jul 2018 21:06

Tgt Ion:146 Resp: 107

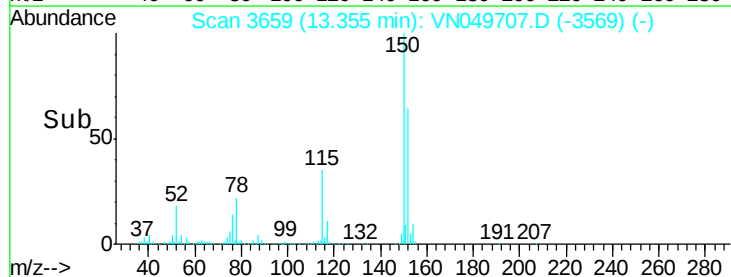
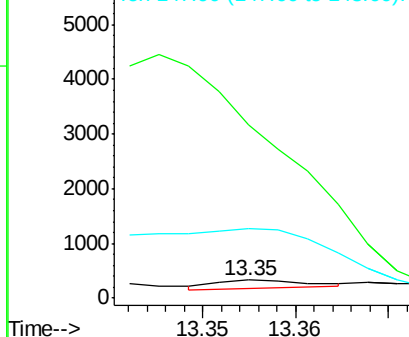
| Ion | Ratio  | Lower | Upper |
|-----|--------|-------|-------|
| 146 | 100    |       |       |
| 111 | 0.0    | 18.9  | 56.5# |
| 148 | 2377.6 | 32.1  | 96.3# |

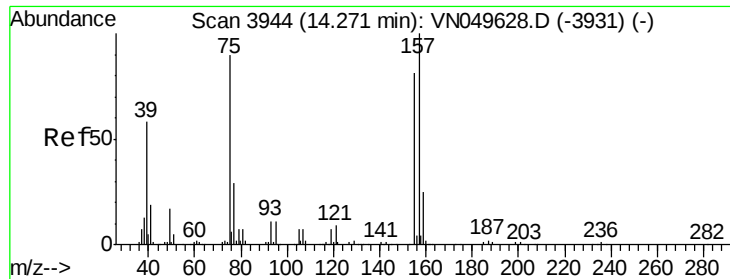


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

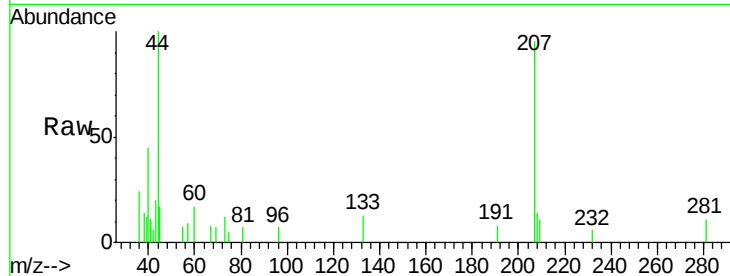




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: Below Cal  
 RT: 14.29 min Scan# 3950  
 Delta R.T. 0.02 min  
 Lab File: VN049707.D  
 Acq: 3 Jul 2018 21:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :

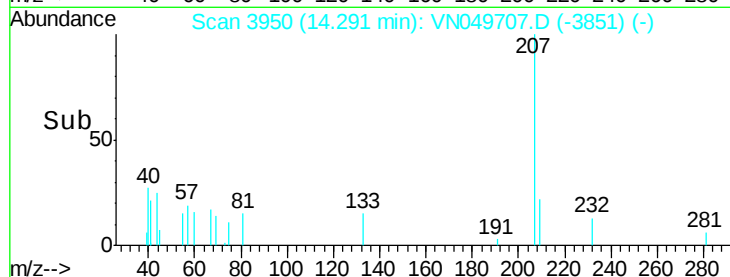
Tot Ion: 75 Resp: 30  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 45.7 137.1#  
 157 0.0 56.9 170.7#



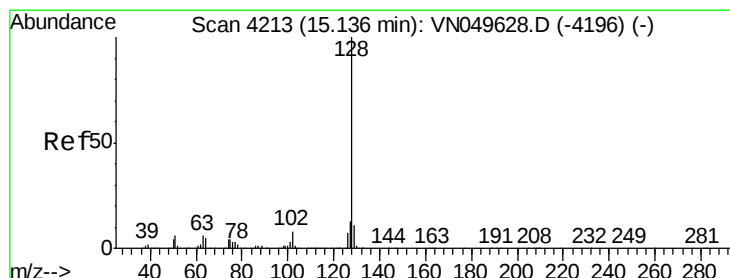
Abundance Ion 74.90 (74.60 to 75.60): VN049628.D (-3931) (-)  
 Ion 154.80 (154.50 to 155.50): VN049628.D (-3931) (-)  
 Ion 156.80 (156.50 to 157.50): VN049628.D (-3931) (-)

14.29

14.28 14.29 14.30

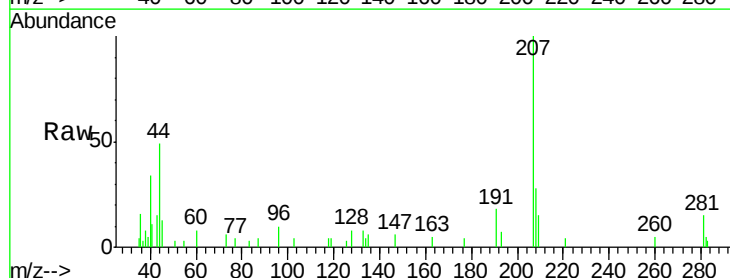


Time-->



#95  
 Naphthalene  
 Concen: 4.06 ug/l  
 RT: 15.13 min Scan# 4212  
 Delta R.T. -0.00 min  
 Lab File: VN049707.D  
 Acq: 3 Jul 2018 21:06

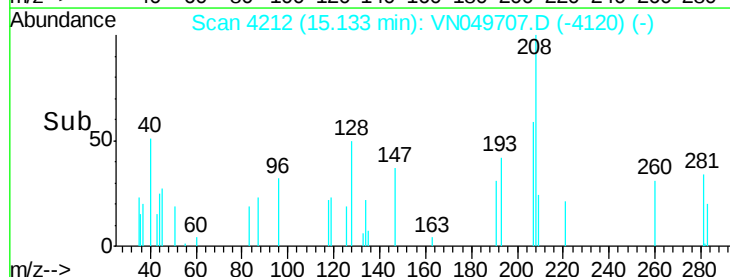
Tgt Ion: 128 Resp: 503  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.4 15.6#  
 129 0.0 8.6 13.0#



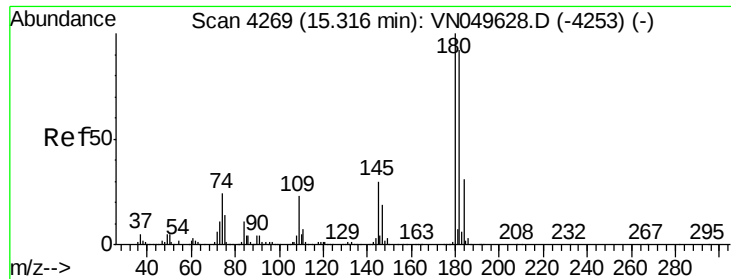
Abundance Ion 128.00 (127.70 to 128.70): VN049628.D (-4196) (-)  
 Ion 127.00 (126.70 to 127.70): VN049628.D (-4196) (-)  
 Ion 129.00 (128.70 to 129.70): VN049628.D (-4196) (-)

15.13

15.10 15.12 15.14 15.16



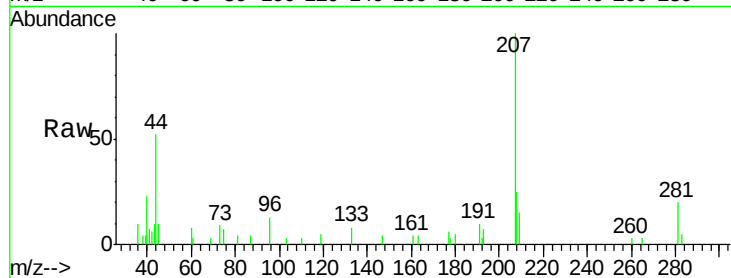
Time-->



#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.66 ug/l  
 RT: 15.31 min Scan# 4268  
 Delta R.T. -0.00 min  
 Lab File: VN049707.D  
 Acq: 3 Jul 2018 21:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 47.4  | 142.2# |
| 145     | 0.0   | 15.2  | 45.6#  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

