

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN072718\  
 Data File : VN050126.D  
 Acq On : 27 Jul 2018 12:23  
 Operator : MD\SY  
 Sample : J4197-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SPDES-1

Quant Time: Jul 27 12:53:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N072518W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 26 15:21:50 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 183553   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 1014207  | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 823869   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 377690   | 30.27    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.90% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 310202   | 24.51    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 81.70%  |
| 63) Toluene-d8            | 10.09  | 98    | 1158278  | 29.43    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 98.10%  |

## Target Compounds

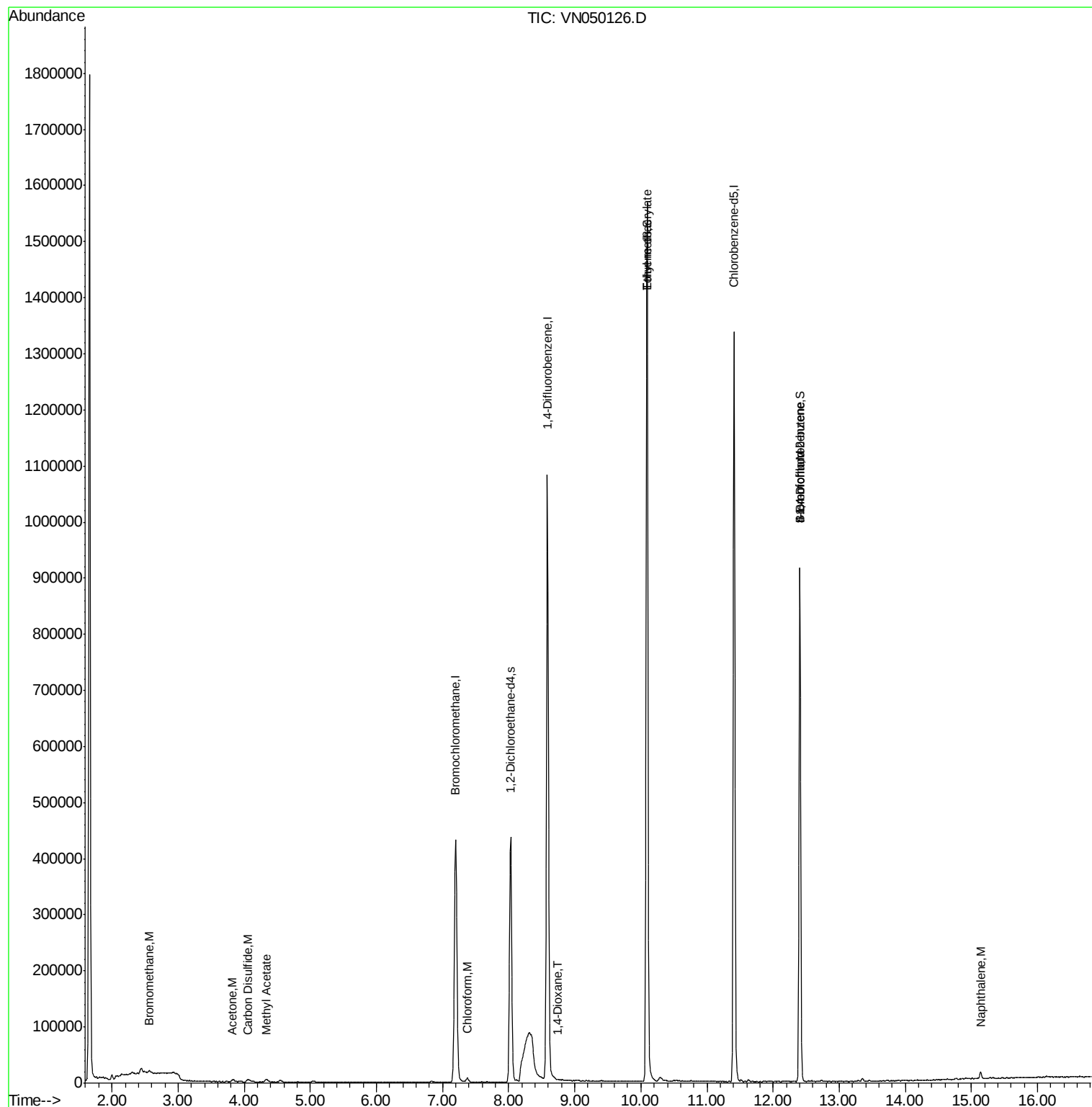
|                             |       |     |        |        | Qvalue |    |
|-----------------------------|-------|-----|--------|--------|--------|----|
| 5) Bromomethane             | 2.57  | 94  | 2331   | 0.275  | ug/l   | 93 |
| 12) Methyl Acetate          | 4.33  | 43  | 8653   | 0.772  | ug/l   | 95 |
| 15) Acetone                 | 3.82  | 58  | 1289   | 1.297  | ug/l # | 10 |
| 16) Carbon Disulfide        | 4.05  | 76  | 6150   | 0.205  | ug/l   | 96 |
| 25) Chloroform              | 7.37  | 83  | 7048   | 0.349  | ug/l   | 93 |
| 45) 1,4-Dioxane             | 8.74  | 88  | 104    | 0.827  | ug/l # | 1  |
| 51) Ethyl methacrylate      | 10.10 | 69  | 3677   | 0.271  | ug/l   | 86 |
| 56) Bromoform               | 12.41 | 173 | 2544   | 0.284  | ug/l # | 1  |
| 77) t-1,4-Dichloro-2-butene | 12.40 | 75  | 149060 | 41.505 | ug/l # | 14 |
| 91) Naphthalene             | 15.14 | 128 | 11310  | 7.995  | ug/l   | 98 |

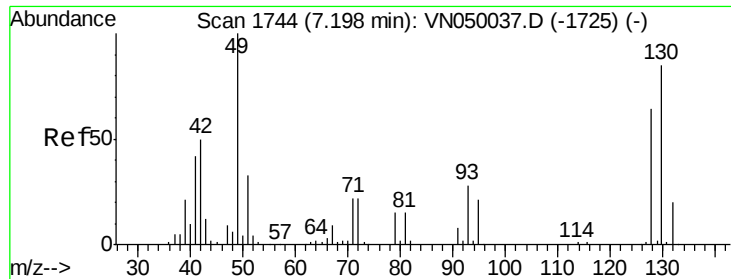
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jul 26 15:21:50 2018  
Response via : Initial Calibration

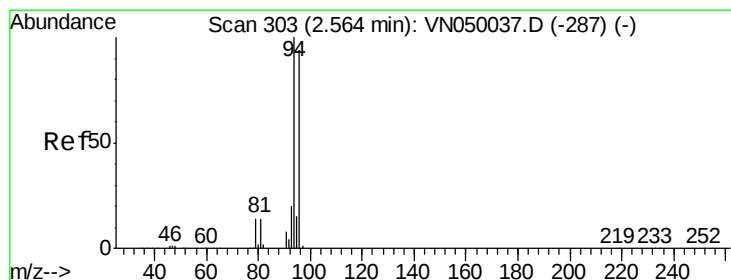
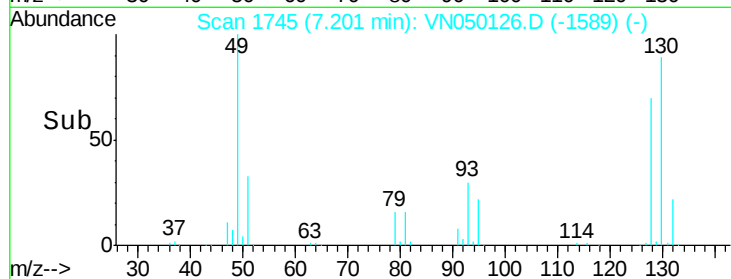
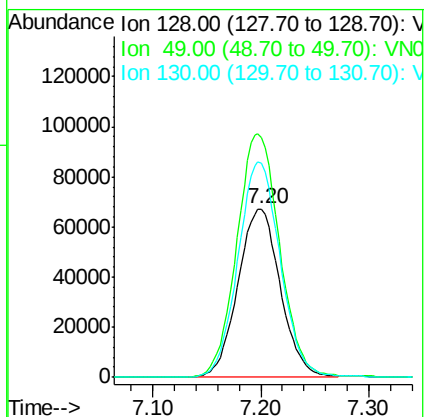
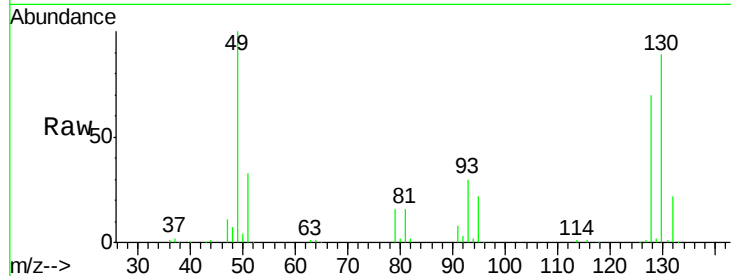




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 7.20 min Scan# 1745  
 Delta R.T. 0.00 min  
 Lab File: VN050126.D  
 Acq: 27 Jul 2018 12:23

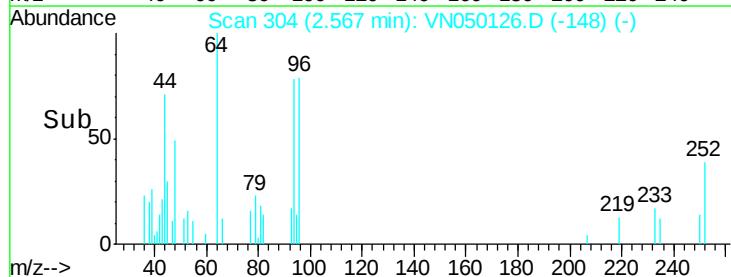
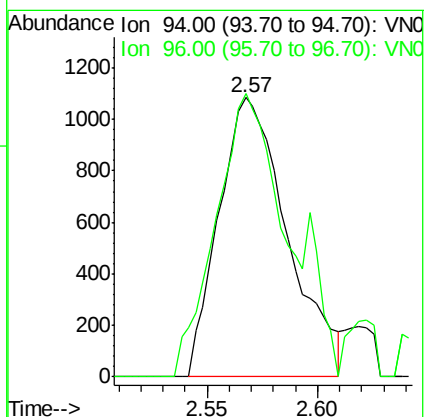
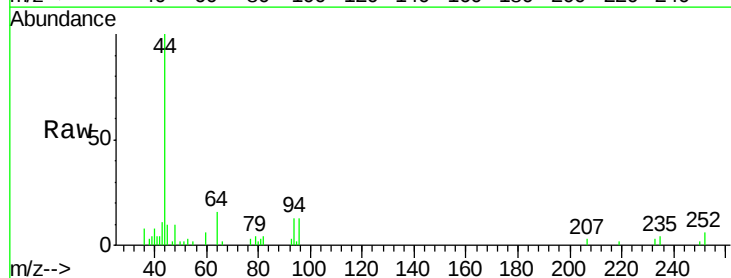
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SPDES-1

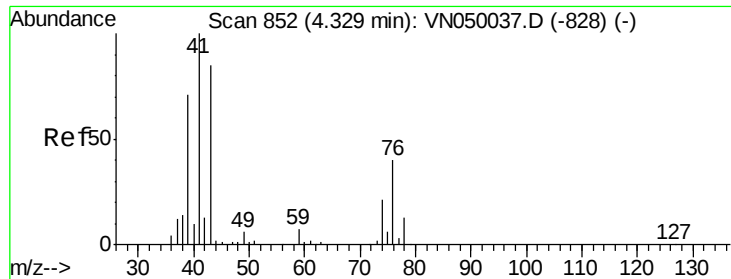
Tgt Ion: 128 Resp: 183553  
 Ion Ratio Lower Upper  
 128 100  
 49 146.7 0.0 378.3  
 130 128.0 0.0 320.7



#5  
 Bromomethane  
 Concen: 0.275 ug/l  
 RT: 2.57 min Scan# 304  
 Delta R.T. 0.00 min  
 Lab File: VN050126.D  
 Acq: 27 Jul 2018 12:23

Tgt Ion: 94 Resp: 2331  
 Ion Ratio Lower Upper  
 94 100  
 96 101.4 75.9 113.9





#12

Methyl Acetate

Concen: 0.772 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

Instrument :

MSVOA\_N

ClientSampleId :

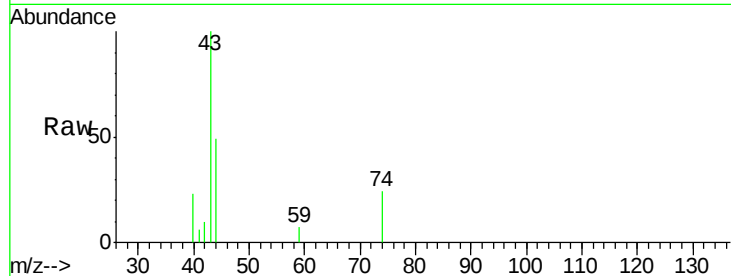
SPDES-1

Tgt Ion: 43 Resp: 8653

Ion Ratio Lower Upper

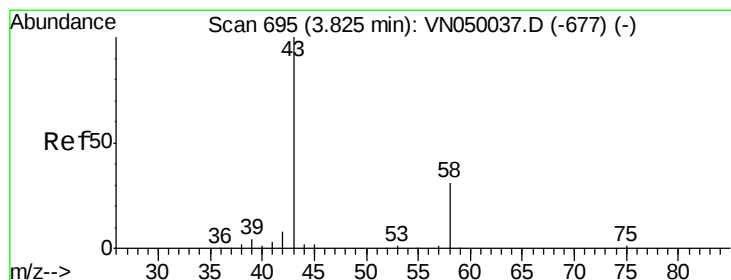
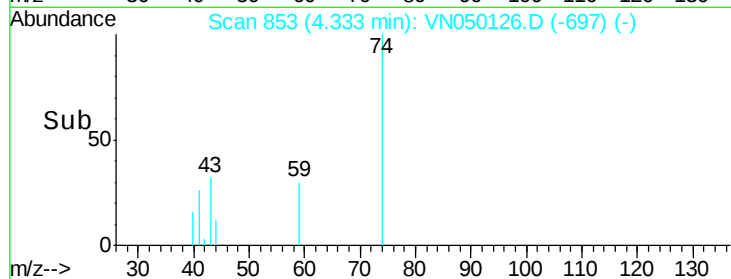
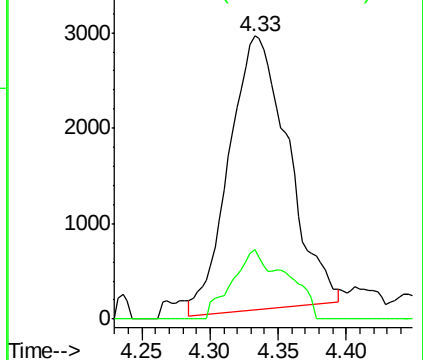
43 100

74 26.6 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#15

Acetone

Concen: 1.297 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN050126.D

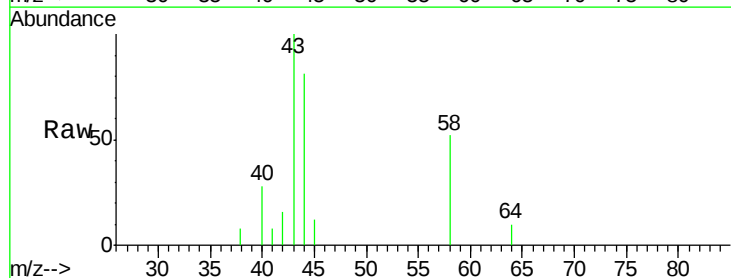
Acq: 27 Jul 2018 12:23

Tgt Ion: 58 Resp: 1289

Ion Ratio Lower Upper

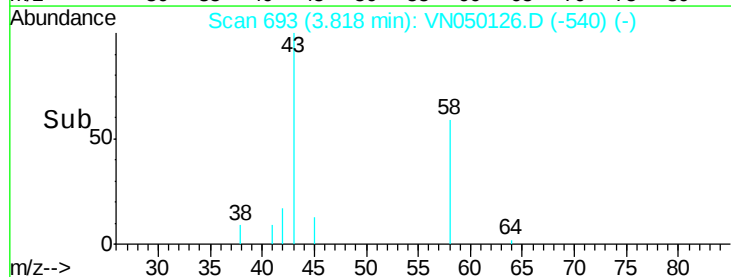
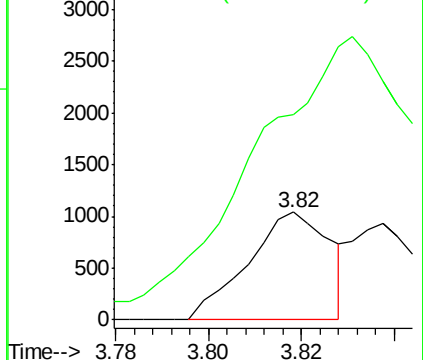
58 100

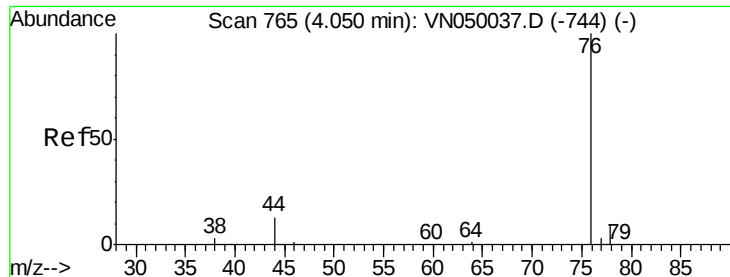
43 132.0 252.0 378.0#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

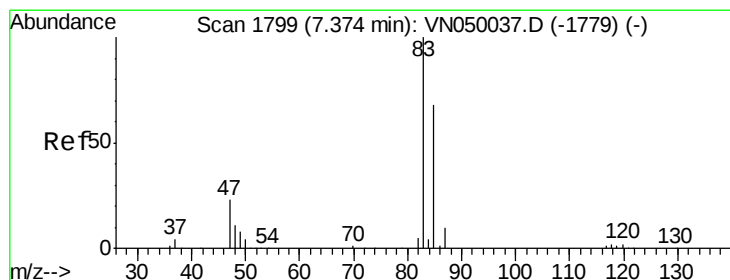
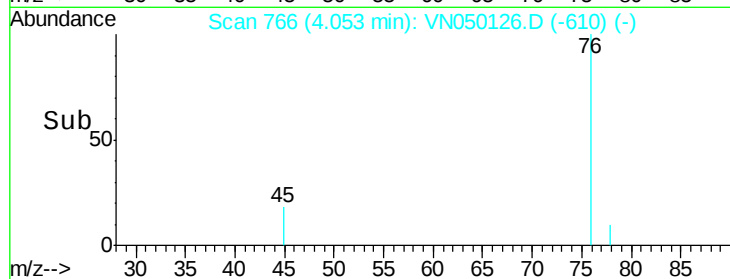
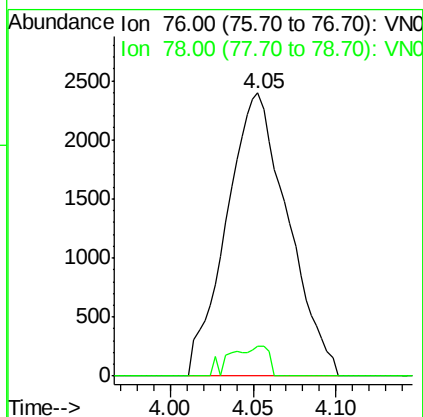
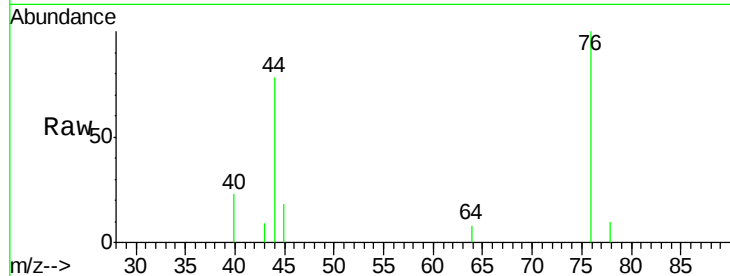




#16  
Carbon Disulfide  
Concen: 0.205 ug/l  
RT: 4.05 min Scan# 766  
Delta R.T. 0.00 min  
Lab File: VN050126.D  
Acq: 27 Jul 2018 12:23

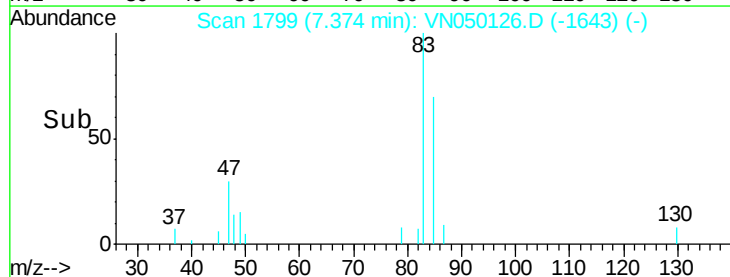
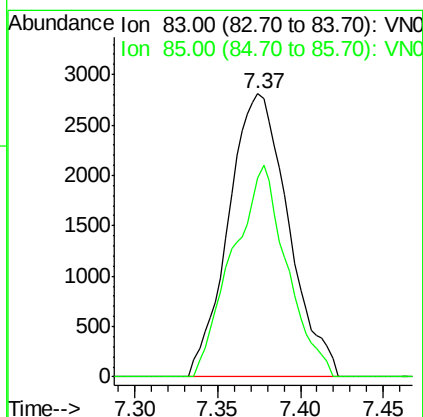
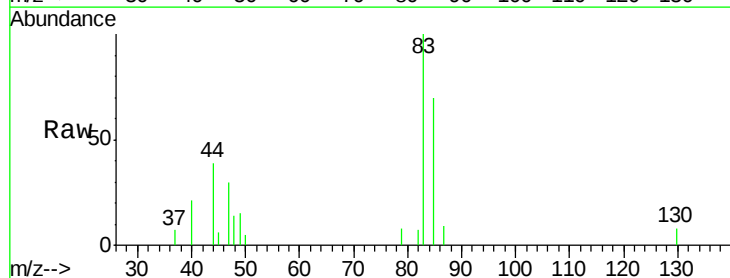
Instrument :  
MSVOA\_N  
ClientSampled :  
SPDES-1

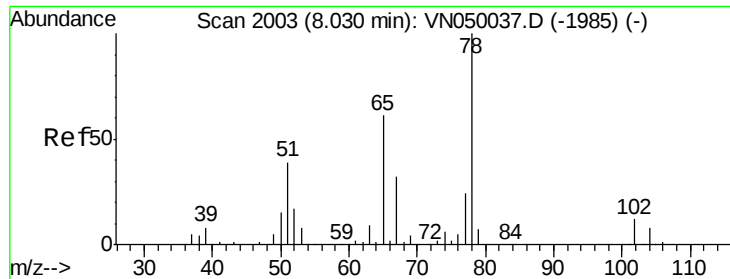
Tgt Ion: 76 Resp: 6150  
Ion Ratio Lower Upper  
76 100  
78 10.5 7.3 10.9



#25  
Chloroform  
Concen: 0.349 ug/l  
RT: 7.37 min Scan# 1799  
Delta R.T. -0.00 min  
Lab File: VN050126.D  
Acq: 27 Jul 2018 12:23

Tgt Ion: 83 Resp: 7048  
Ion Ratio Lower Upper  
83 100  
85 70.5 52.1 78.1





#27

1,2-Dichloroethane-d4

Concen: 30.272 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

Instrument :

MSVOA\_N

ClientSampleId :

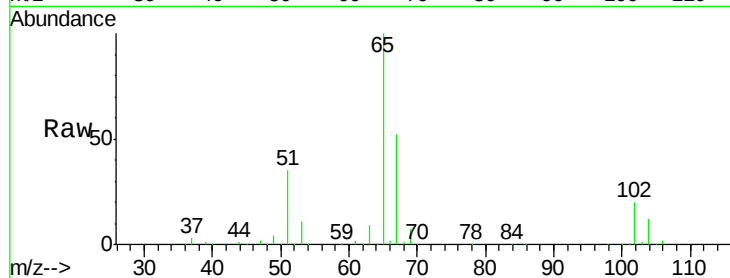
SPDES-1

Tgt Ion: 65 Resp: 377690

Ion Ratio Lower Upper

65 100

67 52.7 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

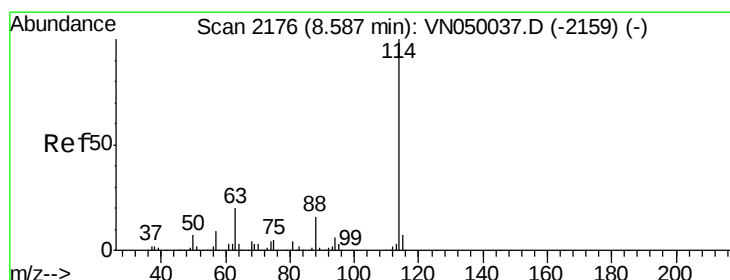
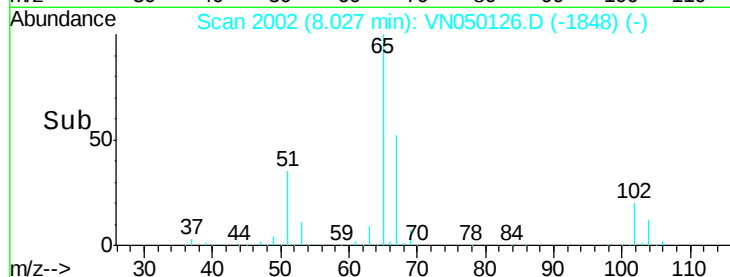
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

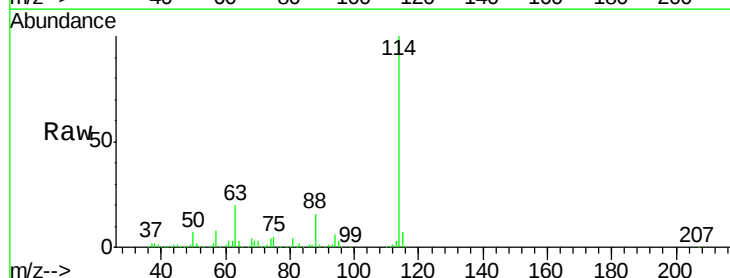
Tgt Ion: 114 Resp: 1014207

Ion Ratio Lower Upper

114 100

63 19.4 16.2 24.2

88 15.3 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.59

600000

500000

400000

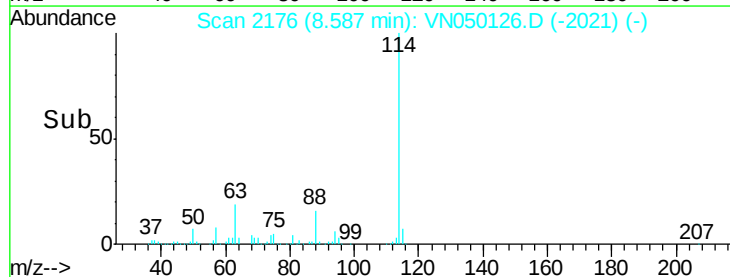
300000

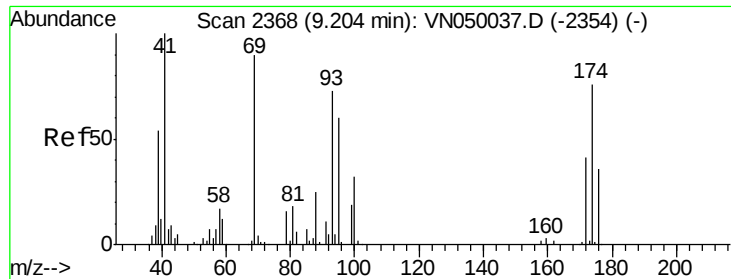
200000

100000

0

Time--> 8.50 8.60 8.70

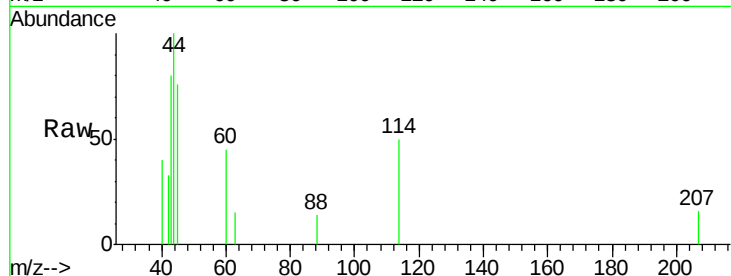




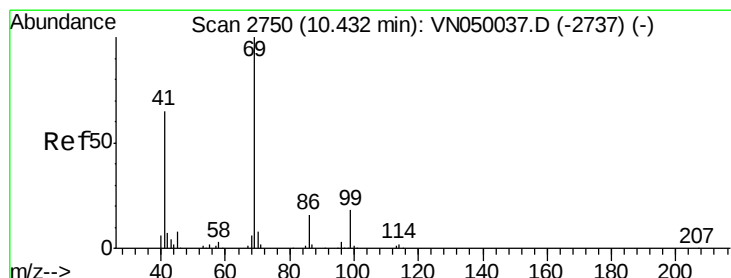
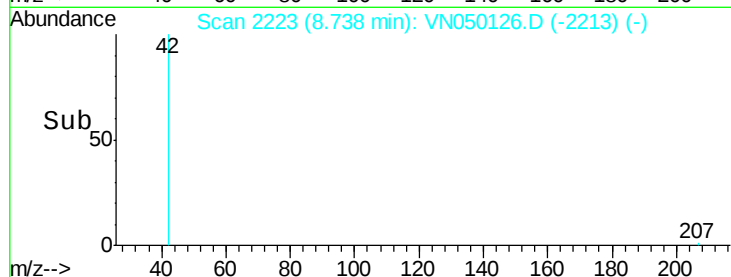
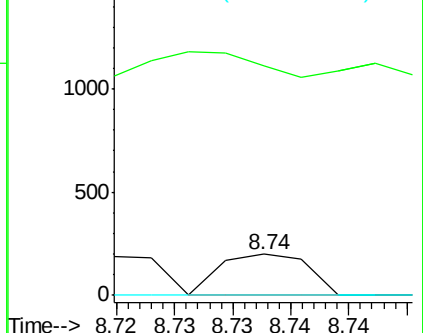
#45  
 1,4-Dioxane  
 Concen: 0.827 ug/l  
 RT: 8.74 min Scan# 2223  
 Delta R.T. -0.47 min  
 Lab File: VN050126.D  
 Acq: 27 Jul 2018 12:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SPDES-1

Tgt Ion: 88 Resp: 104  
 Ion Ratio Lower Upper  
 88 100  
 43 118.3 26.9 40.3#  
 58 0.0 53.6 80.4#

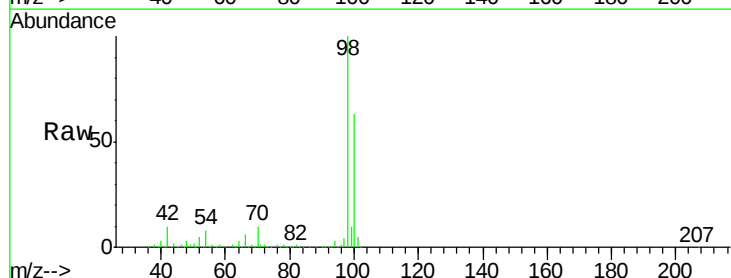


Abundance Ion 88.00 (87.70 to 88.70): VN0  
 Ion 43.00 (42.70 to 43.70): VN0  
 Ion 58.00 (57.70 to 58.70): VN0

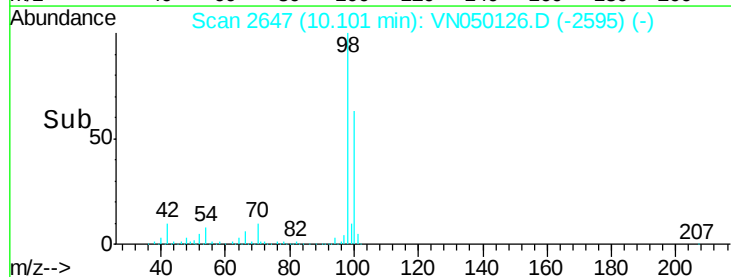
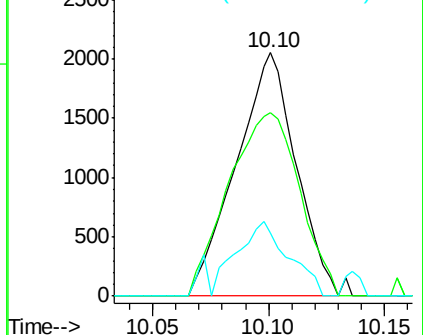


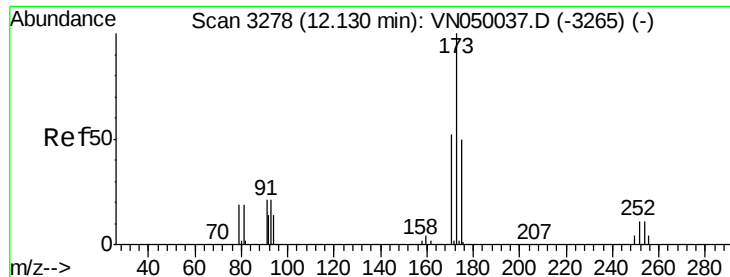
#51  
 Ethyl methacrylate  
 Concen: 0.271 ug/l  
 RT: 10.10 min Scan# 2647  
 Delta R.T. -0.33 min  
 Lab File: VN050126.D  
 Acq: 27 Jul 2018 12:23

Tgt Ion: 69 Resp: 3677  
 Ion Ratio Lower Upper  
 69 100  
 41 75.3 31.9 95.9  
 39 26.1 16.7 50.1



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





#56

Bromoform

Concen: 0.284 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

Instrument :

MSVOA\_N

ClientSampleId :

SPDES-1

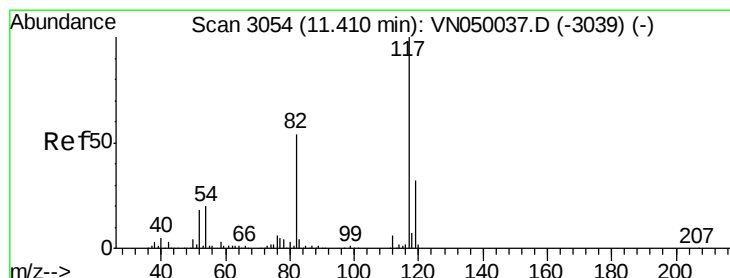
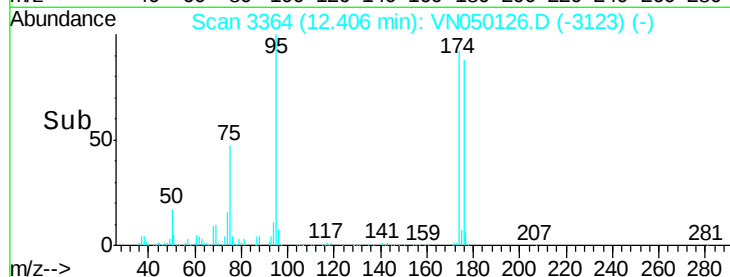
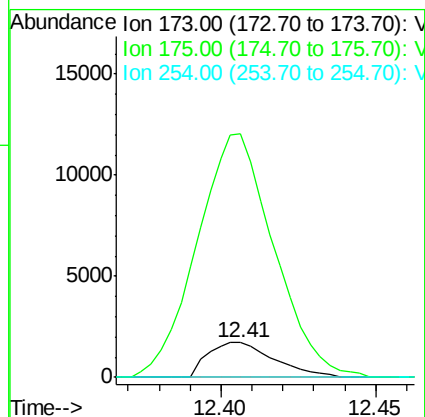
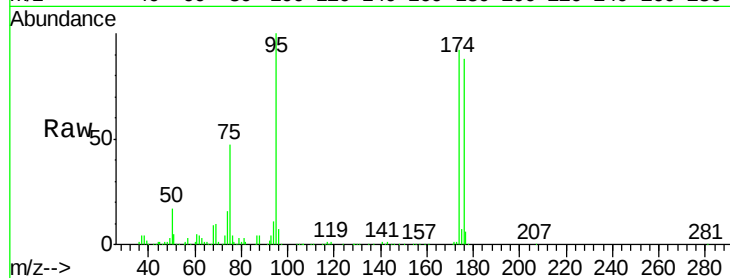
Tgt Ion:173 Resp: 2544

Ion Ratio Lower Upper

173 100

175 816.8 38.6 57.8#

254 0.0 8.8 13.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

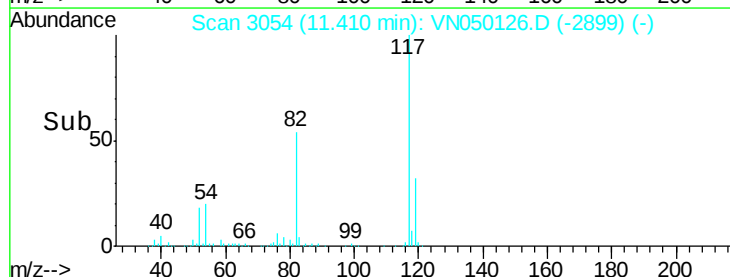
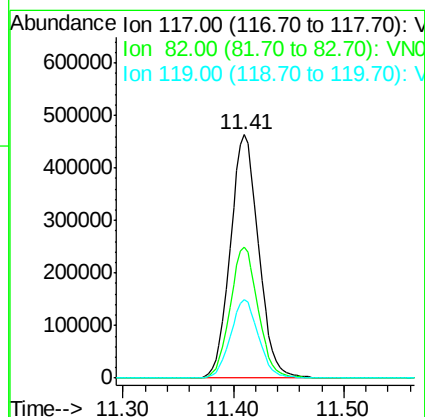
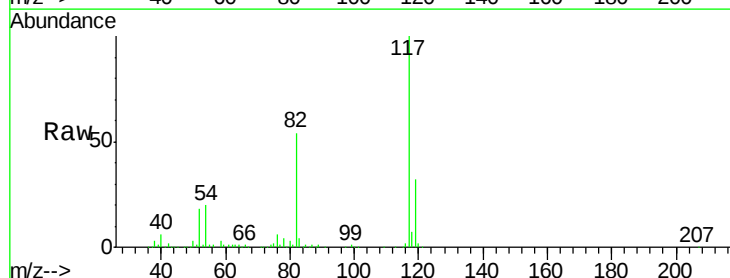
Tgt Ion:117 Resp: 823869

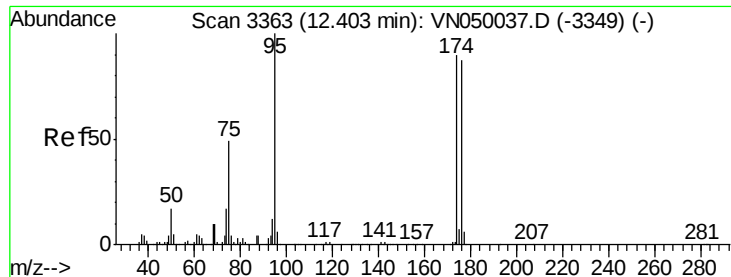
Ion Ratio Lower Upper

117 100

82 53.4 42.4 63.6

119 32.0 25.4 38.0

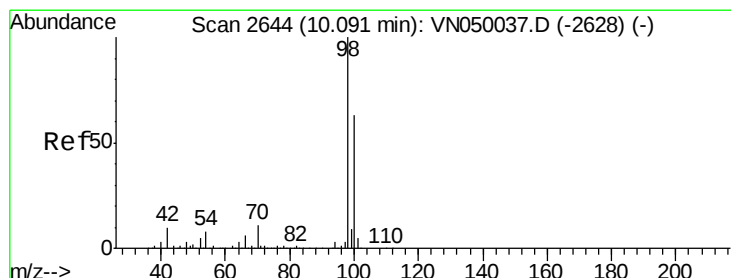
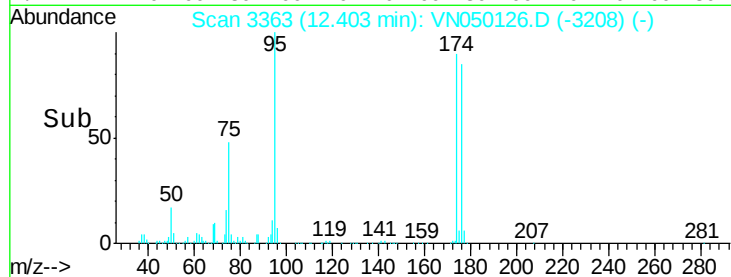
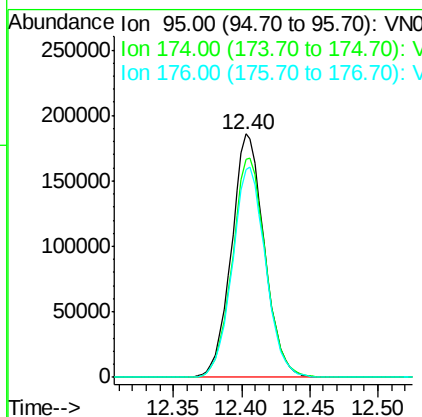
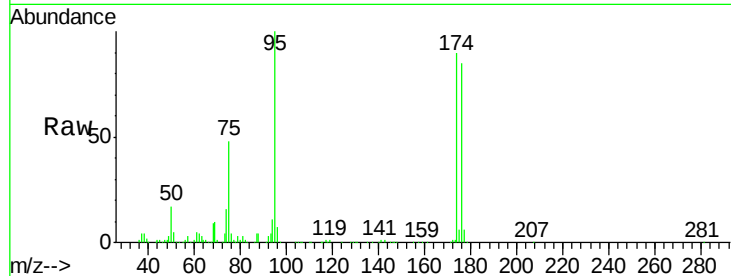




#60  
4-Bromofluorobenzene  
Concen: 24.508 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. -0.00 min  
Lab File: VN050126.D  
Acq: 27 Jul 2018 12:23

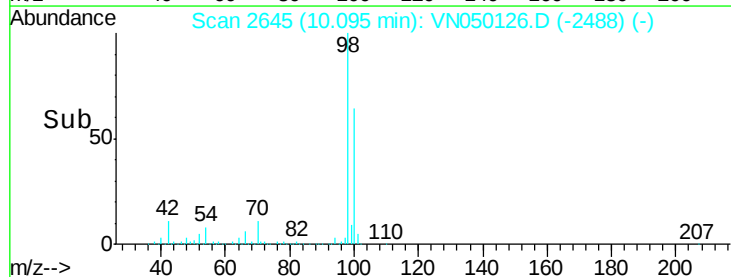
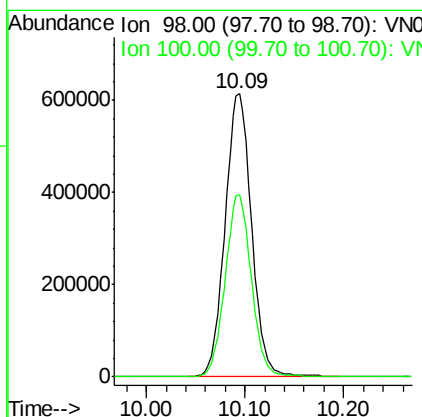
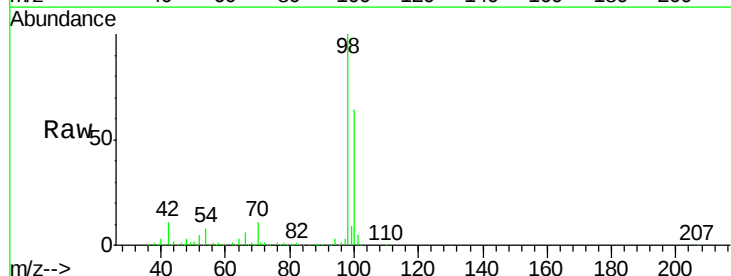
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPDES-1

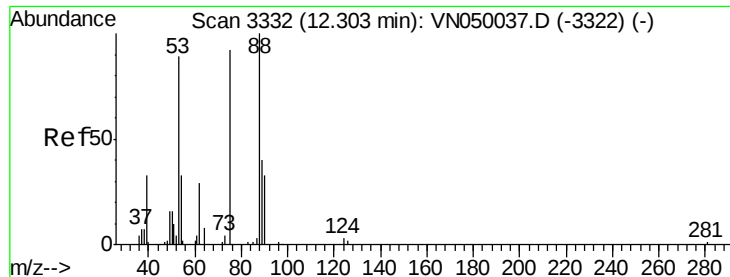
Tgt Ion: 95 Resp: 310202  
Ion Ratio Lower Upper  
95 100  
174 91.8 72.3 108.5  
176 87.3 70.0 105.0



#63  
Toluene-d8  
Concen: 29.433 ug/l  
RT: 10.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VN050126.D  
Acq: 27 Jul 2018 12:23

Tgt Ion: 98 Resp: 1158278  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.2 76.8





#77

t-1,4-Dichloro-2-butene

Concen: 41.505 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

Instrument :

MSVOA\_N

ClientSampleId :

SPDES-1

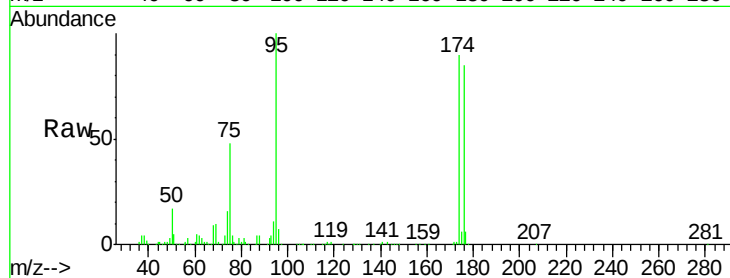
Tgt Ion: 75 Resp: 149060

Ion Ratio Lower Upper

75 100

53 0.2 44.6 134.0#

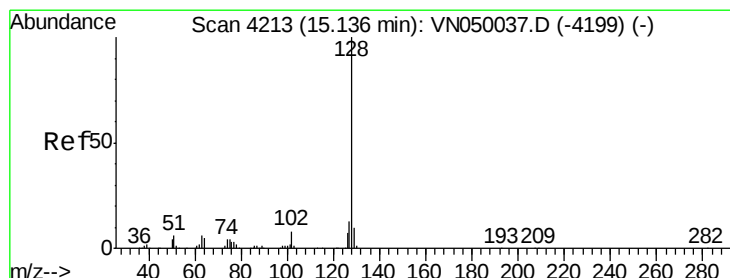
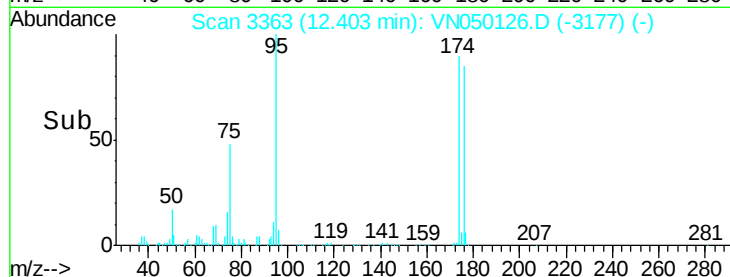
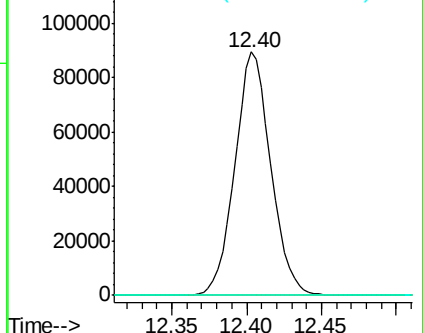
89 0.0 20.7 62.1#



Abundance Ion 75.00 (74.70 to 75.70): VN050126.D (-3177) (-)

Ion 53.00 (52.70 to 53.70): VN050126.D (-3177) (-)

Ion 89.00 (88.70 to 89.70): VN050126.D (-3177) (-)



#91

Naphthalene

Concen: 7.995 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. -0.00 min

Lab File: VN050126.D

Acq: 27 Jul 2018 12:23

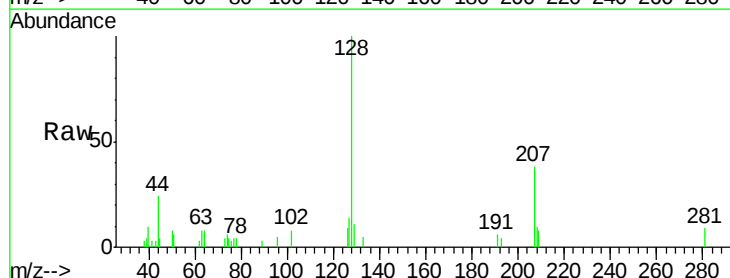
Tgt Ion: 128 Resp: 11310

Ion Ratio Lower Upper

128 100

127 11.6 10.2 15.4

129 11.3 9.0 13.4



Abundance Ion 128.00 (127.70 to 128.70): VN050126.D (-4058) (-)

Ion 127.00 (126.70 to 127.70): VN050126.D (-4058) (-)

Ion 129.00 (128.70 to 129.70): VN050126.D (-4058) (-)

