

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050418\  
 Data File : VX001405.D  
 Acq On : 04 May 2018 18:59  
 Operator : JC/MD  
 Sample : J2707-14  
 Misc : 7.12g/5mL/100uL/5mL/MSVOA\_X/MEOH  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-10(6.5-7)

Quant Time: May 05 05:44:43 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 02 01:48:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 149855   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 206350   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 181270   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 101418   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.08   | 65  | 99202    | 47.82 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.64% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 81914    | 46.08 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.16% |      |
| 50) Toluene-d8            | 8.73   | 98  | 290114   | 45.68 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.36% |      |
| 62) 4-Bromofluorobenzene  | 11.15  | 95  | 91977    | 36.21 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 72.42% |      |

## Target Compounds

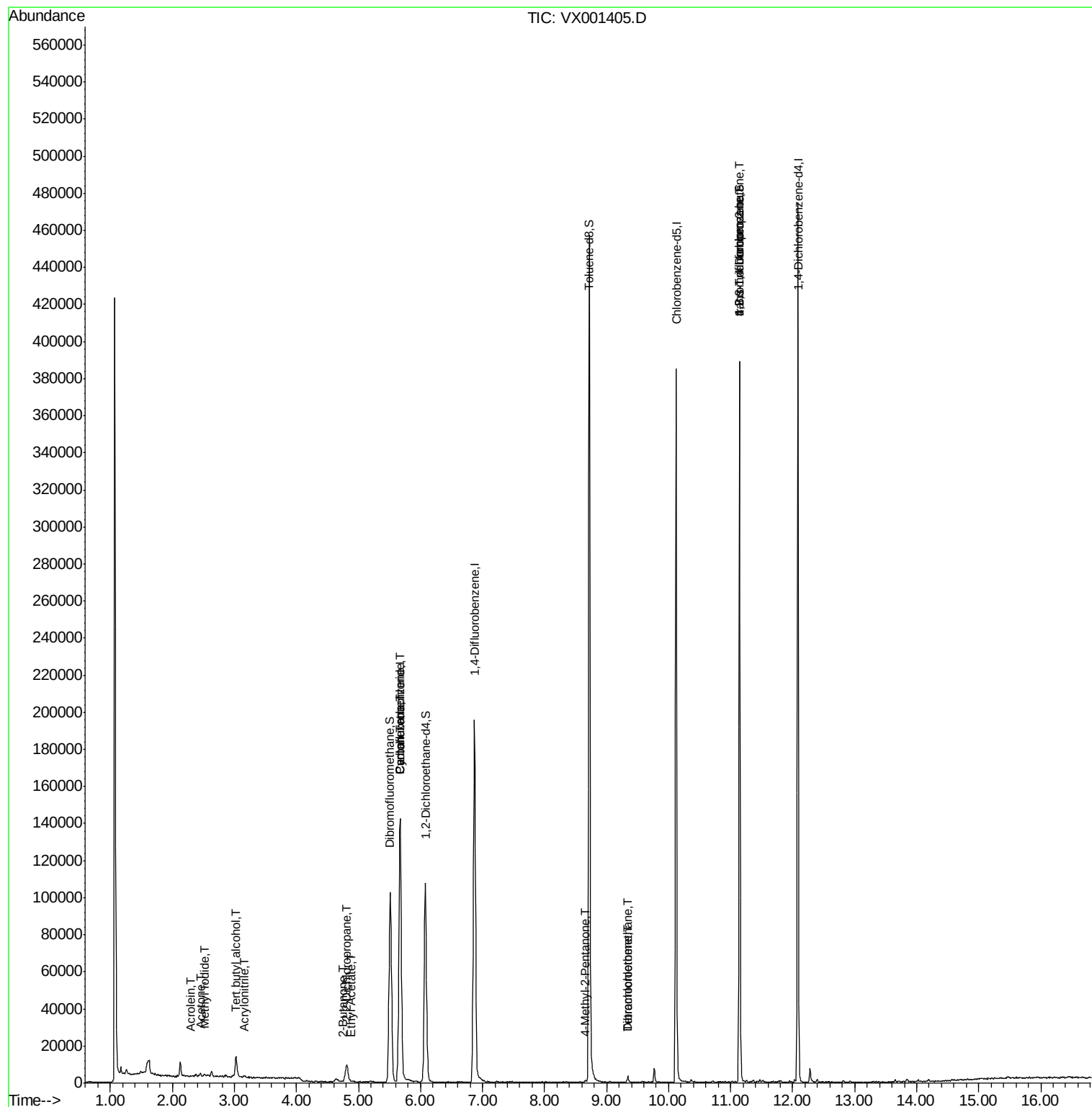
|                                |       |     |       |              |  | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--|--------|
| 5) Bromomethane                | 1.64  | 94  | 924   | Below Cal    |  | 85     |
| 10) Methyl Iodide              | 2.51  | 142 | 1306  | 4.99 ug/l #  |  | 98     |
| 11) Tert butyl alcohol         | 3.03  | 59  | 6559  | 18.38 ug/l # |  | 78     |
| 13) Acrolein                   | 2.30  | 56  | 211   | 1.03 ug/l #  |  | 24     |
| 15) Acrylonitrile              | 3.15  | 53  | 435   | 0.53 ug/l #  |  | 73     |
| 16) Acetone                    | 2.45  | 43  | 1692  | 1.91 ug/l #  |  | 88     |
| 20) Methylene Chloride         | 2.86  | 84  | 345   | Below Cal #  |  | 82     |
| 25) 2-Butanone                 | 4.74  | 43  | 557   | 0.47 ug/l #  |  | 49     |
| 26) 2,2-Dichloropropane        | 4.80  | 77  | 818   | 0.36 ug/l #  |  | 52     |
| 31) Cyclohexane                | 5.67  | 56  | 2732  | 1.07 ug/l #  |  | 28     |
| 37) Ethyl Acetate              | 4.89  | 43  | 706   | 0.29 ug/l #  |  | 69     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 12956 | 5.19 ug/l #  |  | 18     |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43  | 631   | 0.25 ug/l    |  | 97     |
| 60) Dibromochloromethane       | 9.34  | 129 | 582   | 0.31 ug/l #  |  | 10     |
| 64) Tetrachloroethene          | 9.35  | 164 | 813   | 0.38 ug/l #  |  | 72     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 47044 | 25.09 ug/l # |  | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 47044 | 78.90 ug/l # |  | 6      |

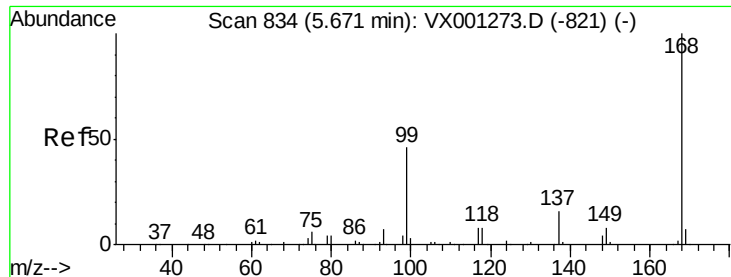
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050418\  
Data File : VX001405.D  
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Misc : 7.12g/5mL/100uL/5mL/MSVOA\_X/MEOH  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-10(6.5-7)

Quant Time: May 05 05:44:43 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 02 01:48:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampleId :

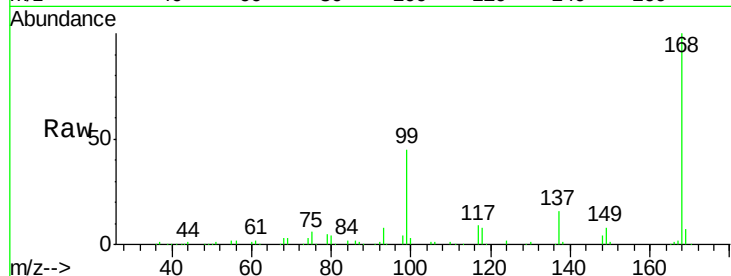
SB-10(6.5-7)

Tgt Ion: 168 Resp: 149855

Ion Ratio Lower Upper

168 100

99 45.2 36.5 54.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

50000

40000

30000

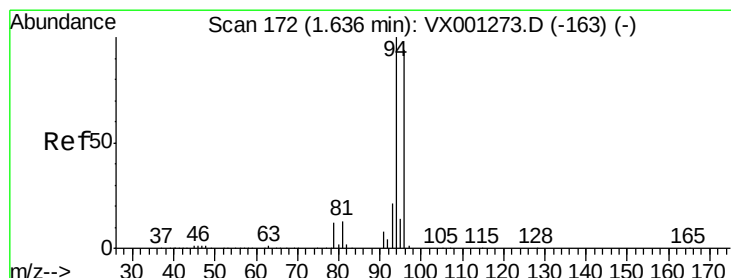
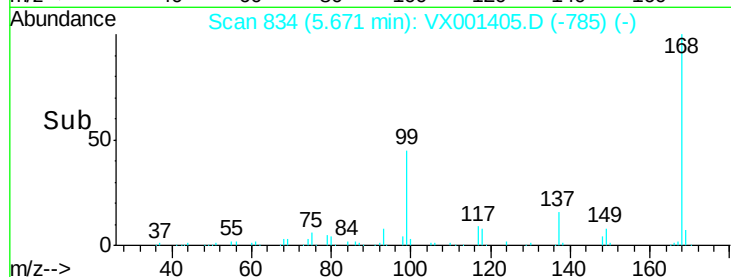
20000

10000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX001405.D

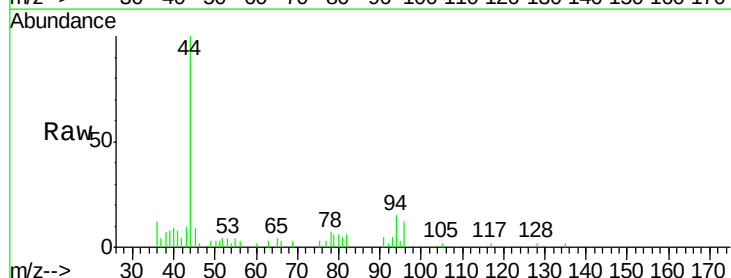
Acq: 04 May 2018 18:59

Tgt Ion: 94 Resp: 924

Ion Ratio Lower Upper

94 100

96 80.3 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

300

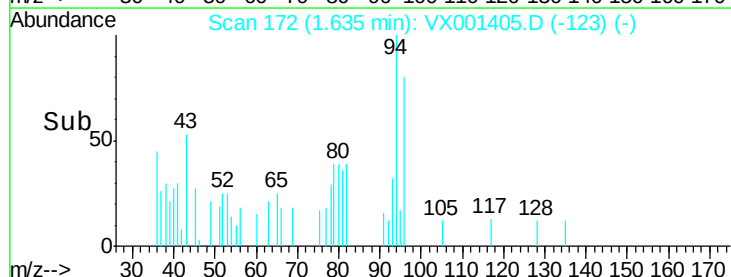
200

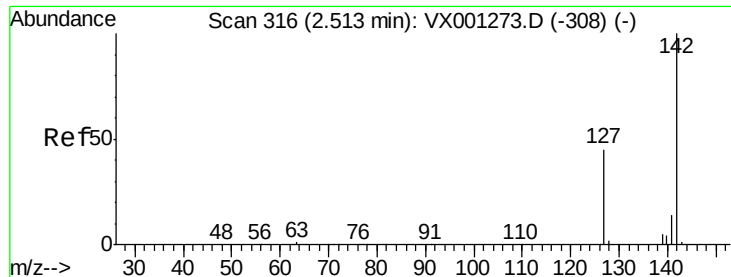
100

0

Time-->

1.60 1.65 1.70 1.75

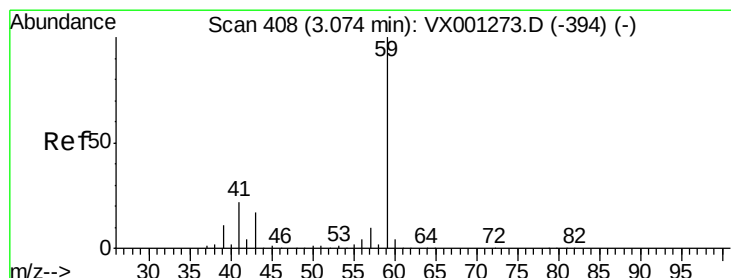
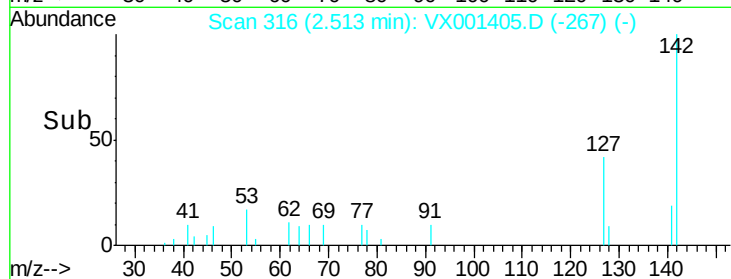
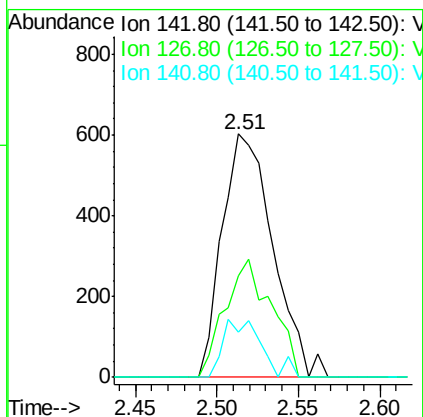
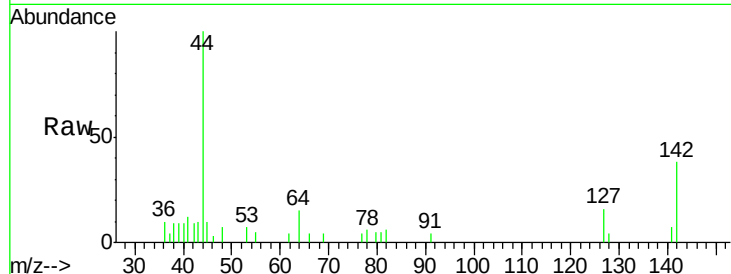




#10  
Methyl Iodide  
Concen: 4.99 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.00 min  
Lab File: VX001405.D  
Acq: 04 May 2018 18:59

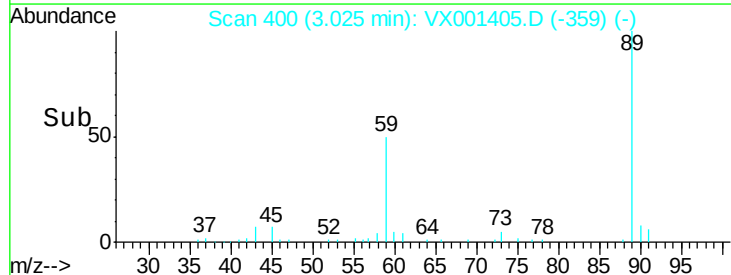
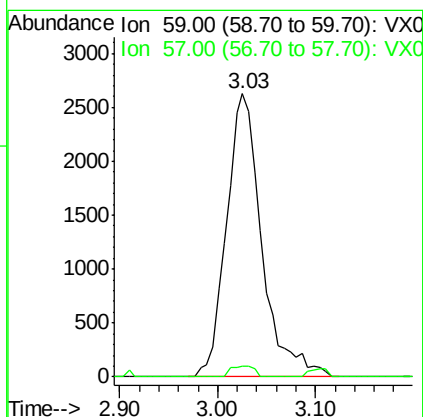
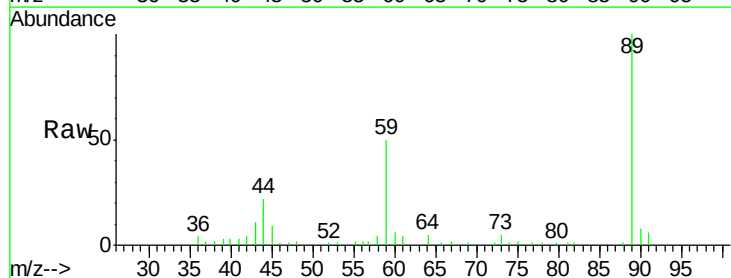
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-10(6.5-7)

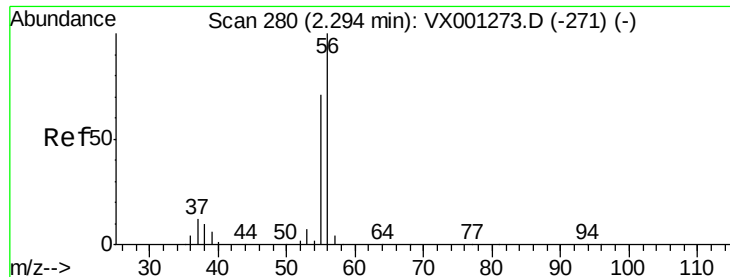
Tgt Ion: 142 Resp: 1306  
Ion Ratio Lower Upper  
142 100  
127 44.5 35.7 53.5  
141 18.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 18.38 ug/l  
RT: 3.03 min Scan# 400  
Delta R.T. -0.05 min  
Lab File: VX001405.D  
Acq: 04 May 2018 18:59

Tgt Ion: 59 Resp: 6559  
Ion Ratio Lower Upper  
59 100  
57 2.5 8.6 12.8#





#13

Acrolein

Concen: 1.03 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampled :

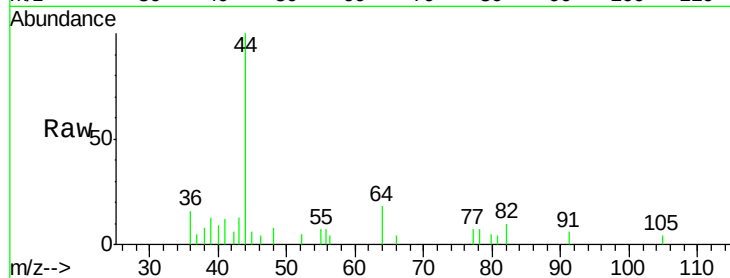
SB-10(6.5-7)

Tgt Ion: 56 Resp: 211

Ion Ratio Lower Upper

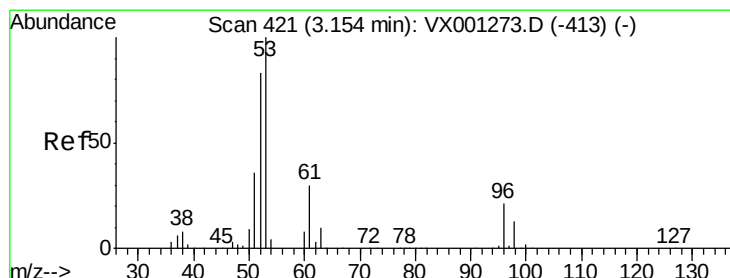
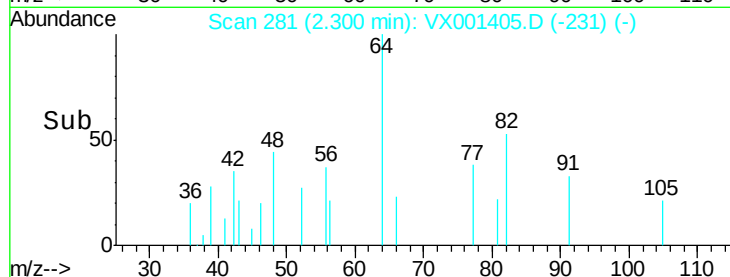
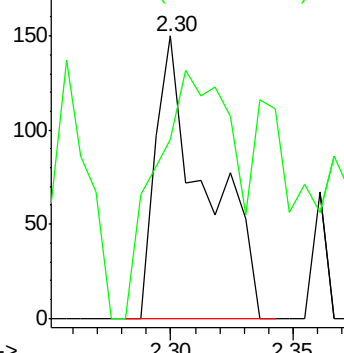
56 100

55 134.6 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.53 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

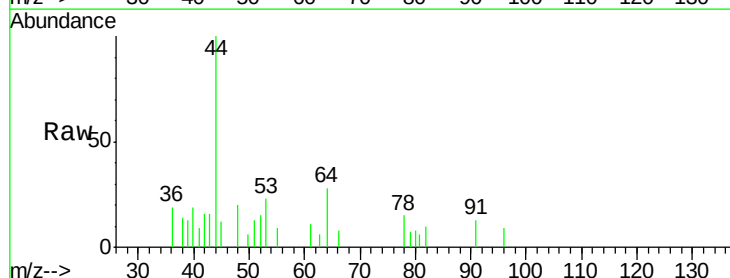
Tgt Ion: 53 Resp: 435

Ion Ratio Lower Upper

53 100

52 100.7 67.0 100.4#

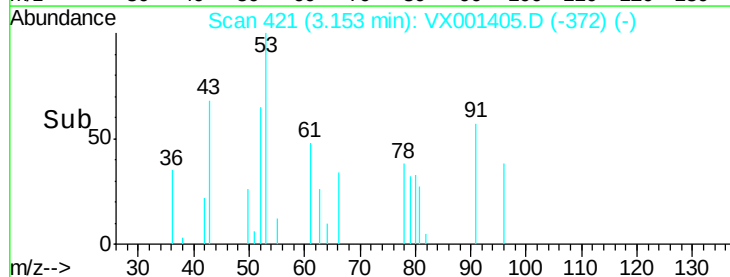
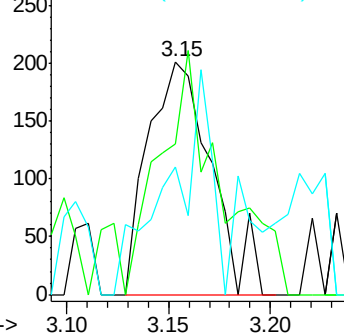
51 63.9 29.9 44.9#

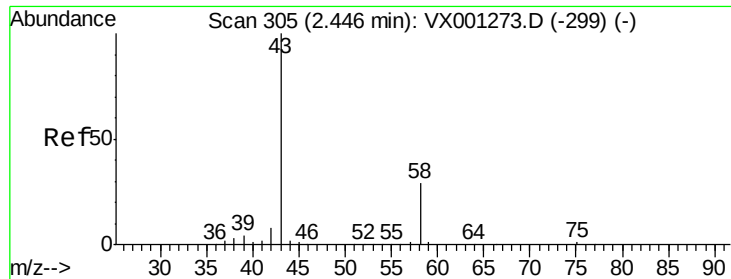


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.91 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampled :

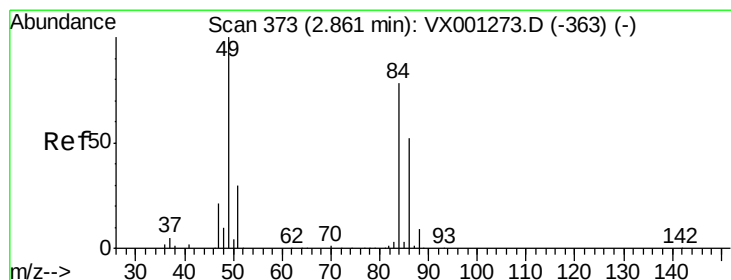
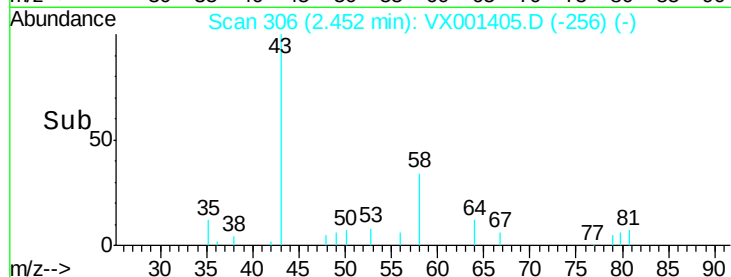
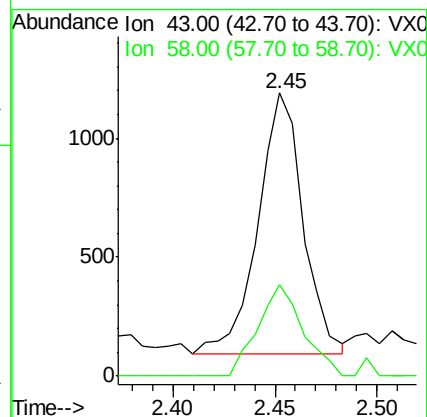
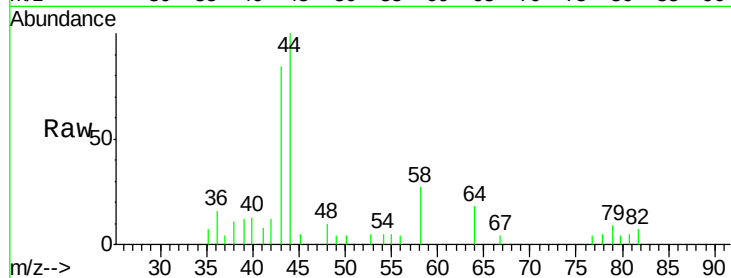
SB-10(6.5-7)

Tgt Ion: 43 Resp: 1692

Ion Ratio Lower Upper

43 100

58 34.9 22.8 34.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Tgt Ion: 84 Resp: 345

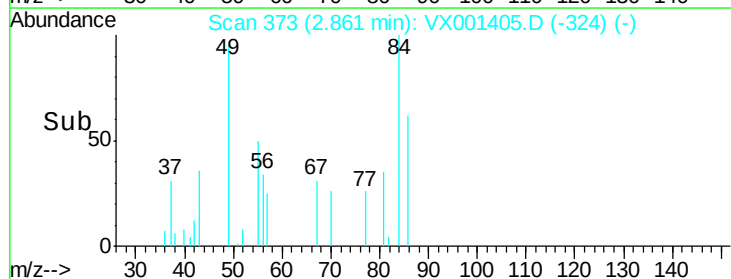
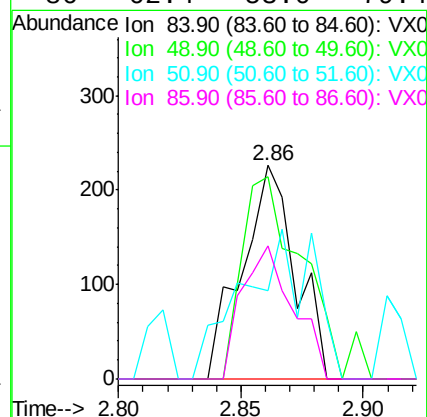
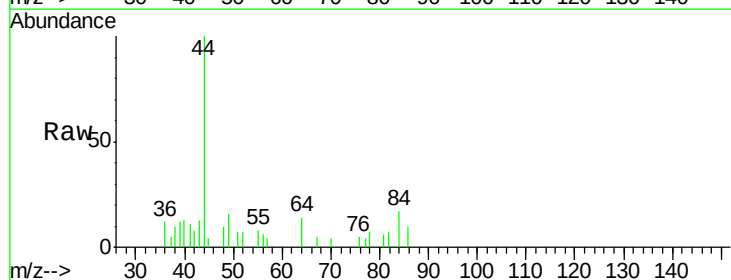
Ion Ratio Lower Upper

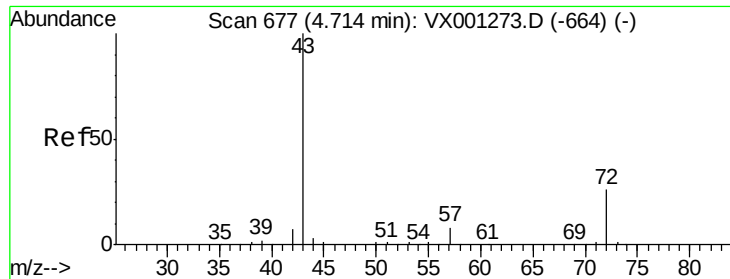
84 100

49 94.7 102.8 154.2#

51 41.6 30.9 46.3

86 62.4 53.0 79.4





#25

2-Butanone

Concen: 0.47 ug/l

RT: 4.74 min Scan# 681

Delta R.T. 0.02 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampled :

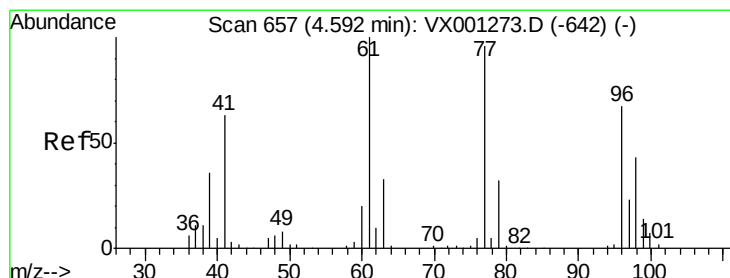
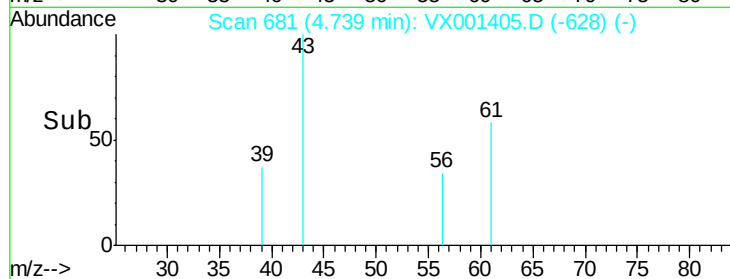
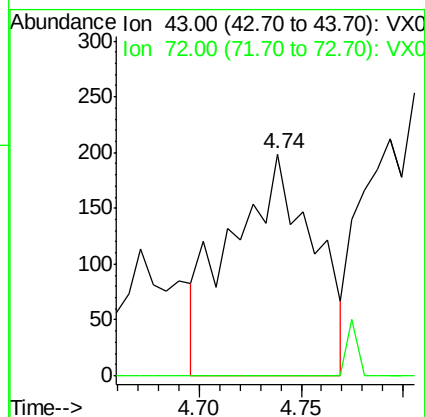
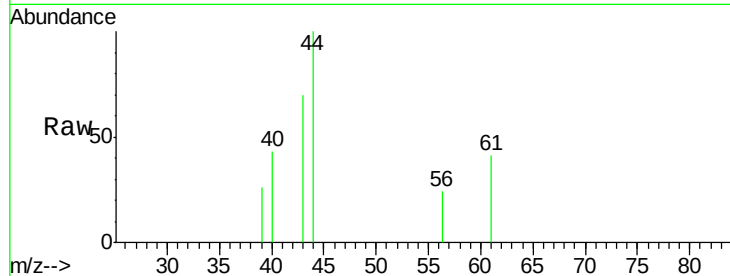
SB-10(6.5-7)

Tgt Ion: 43 Resp: 557

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 0.36 ug/l

RT: 4.80 min Scan# 691

Delta R.T. 0.21 min

Lab File: VX001405.D

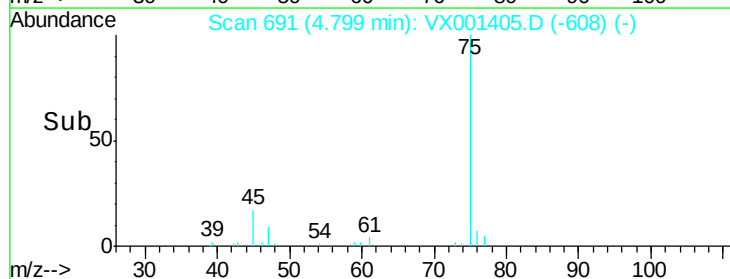
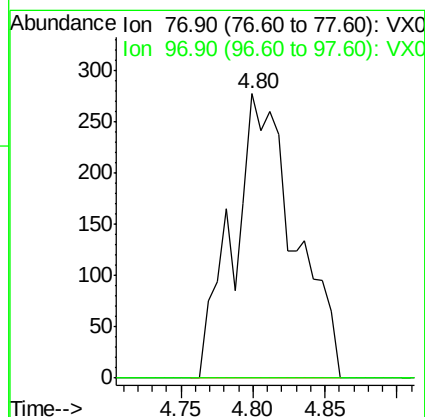
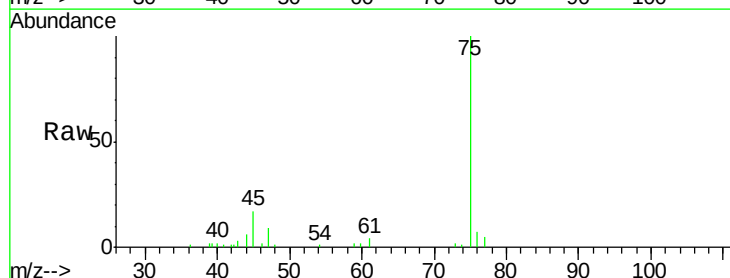
Acq: 04 May 2018 18:59

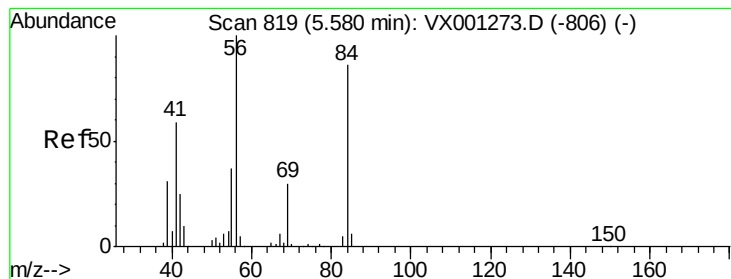
Tgt Ion: 77 Resp: 818

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.3#





#31

Cyclohexane

Concen: 1.07 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampled :

SB-10(6.5-7)

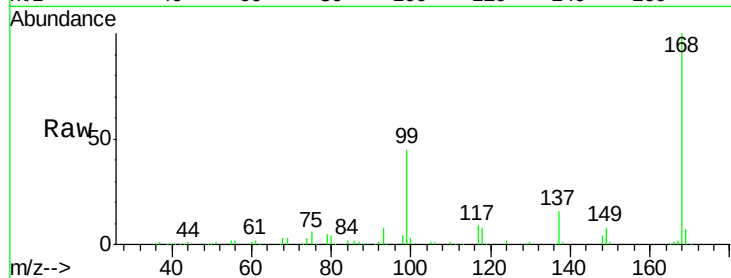
Tgt Ion: 56 Resp: 2732

Ion Ratio Lower Upper

56 100

69 169.9 24.0 36.0#

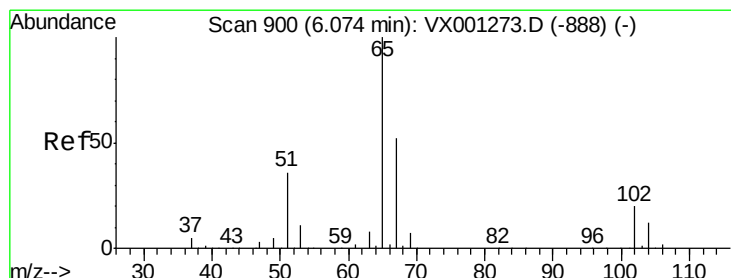
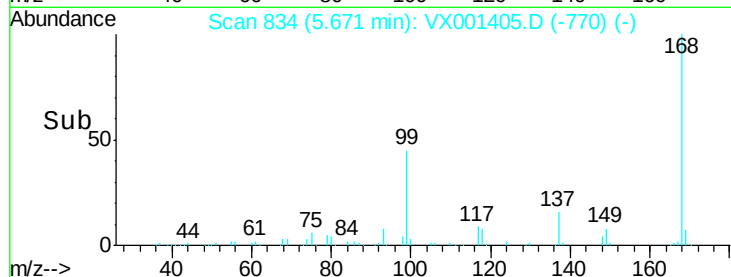
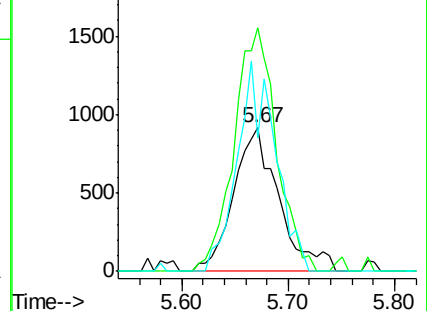
84 92.9 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.82 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001405.D

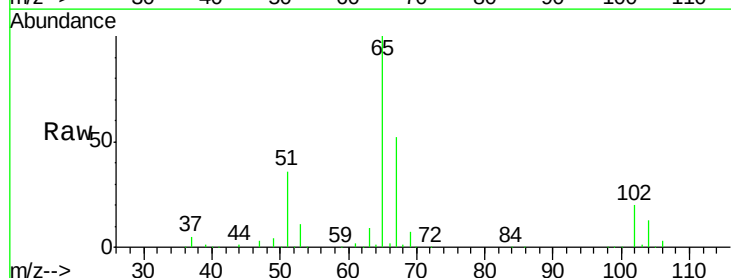
Acq: 04 May 2018 18:59

Tgt Ion: 65 Resp: 99202

Ion Ratio Lower Upper

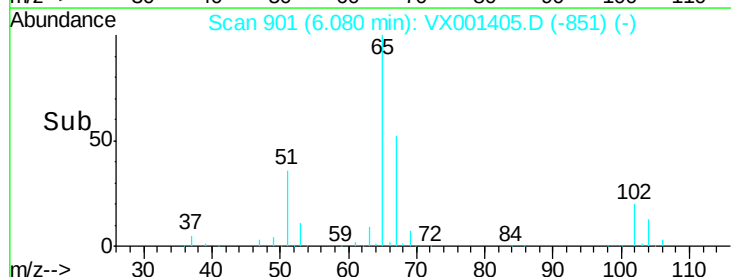
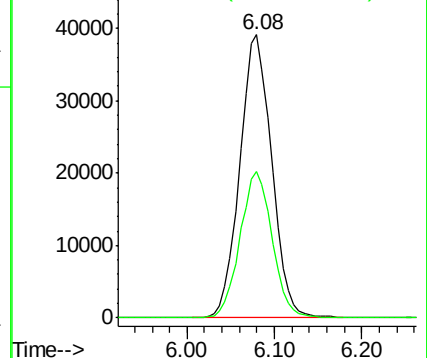
65 100

67 52.2 0.0 102.8

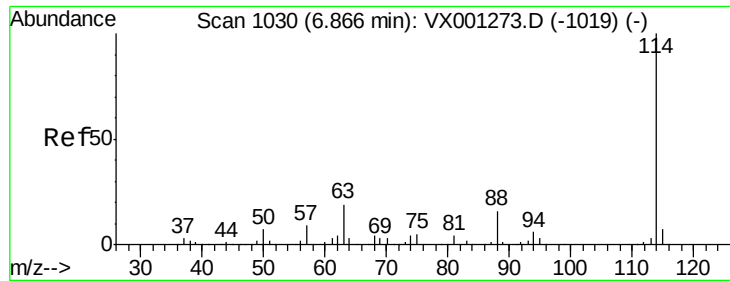


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



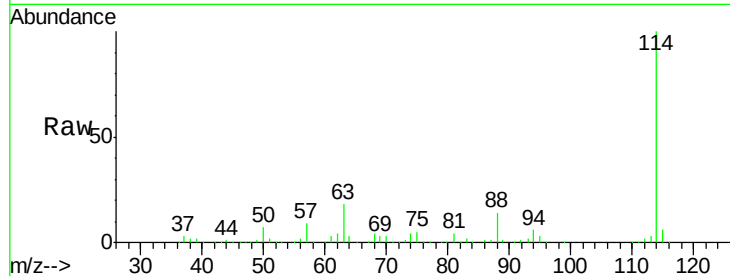




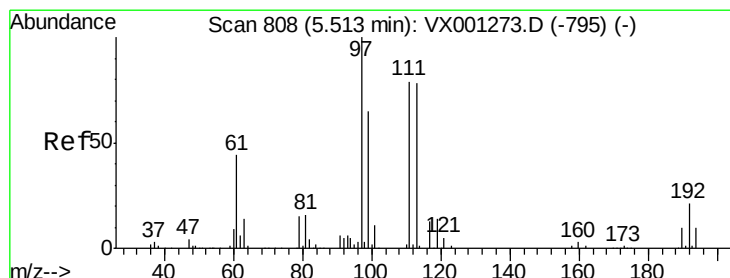
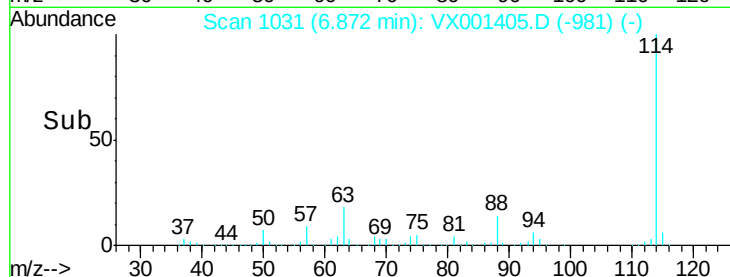
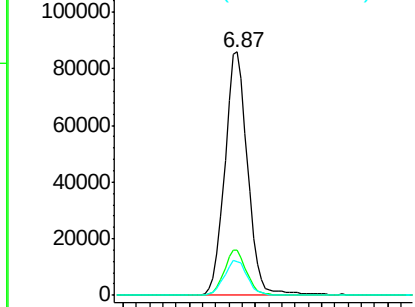
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX001405.D  
 Acq: 04 May 2018 18:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-10(6.5-7)

Tgt Ion:114 Resp: 206350  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 38.8  
 88 13.7 0.0 32.2

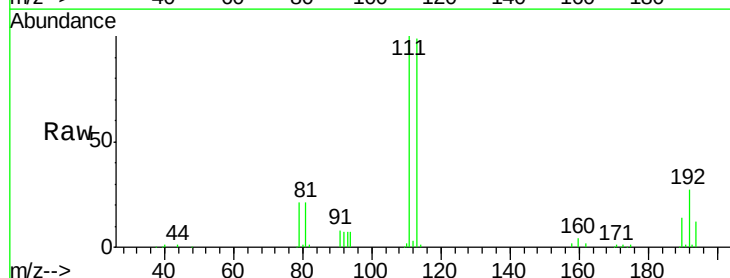


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

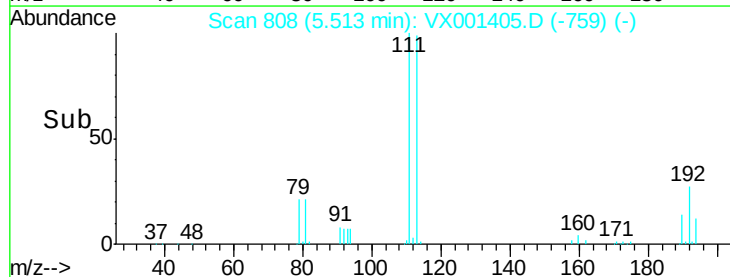
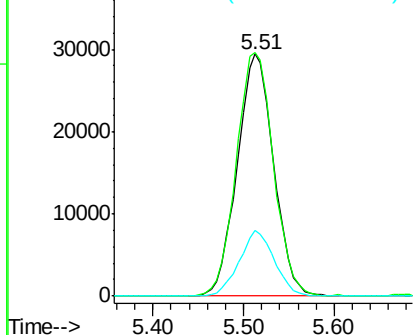


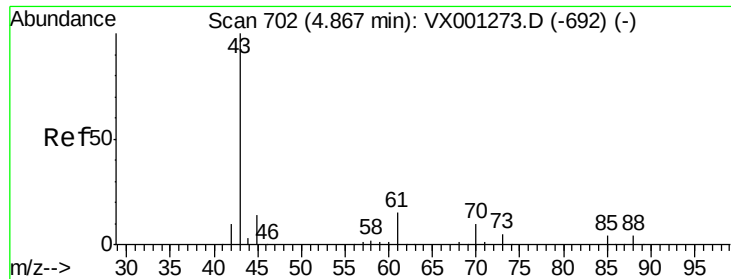
#35  
 Dibromofluoromethane  
 Concen: 46.08 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX001405.D  
 Acq: 04 May 2018 18:59

Tgt Ion:113 Resp: 81914  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.2 121.8  
 192 26.1 20.7 31.1



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





#37

Ethyl Acetate

Concen: 0.29 ug/l

RT: 4.89 min Scan# 706

Delta R.T. 0.02 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampled :

SB-10(6.5-7)

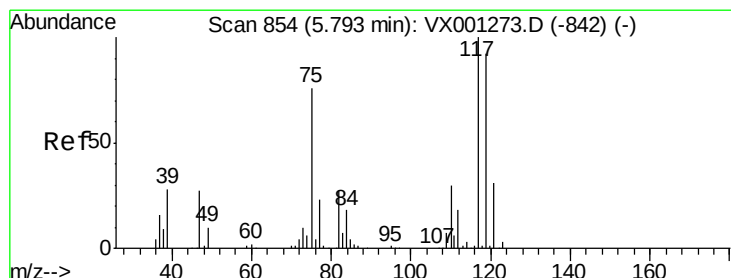
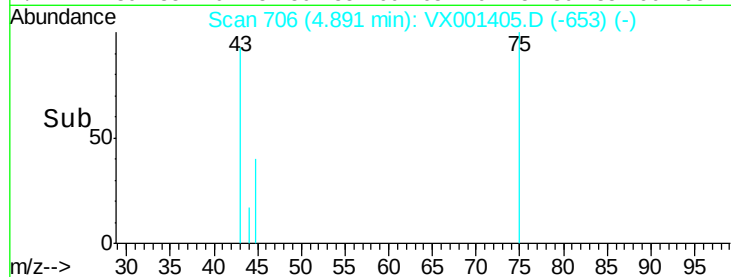
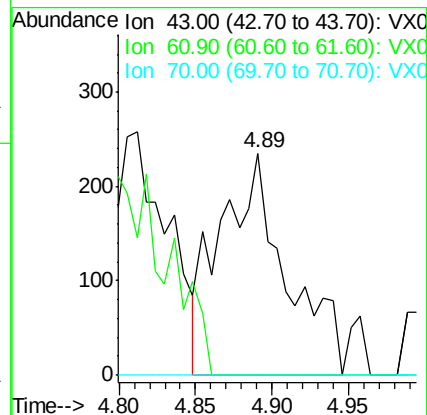
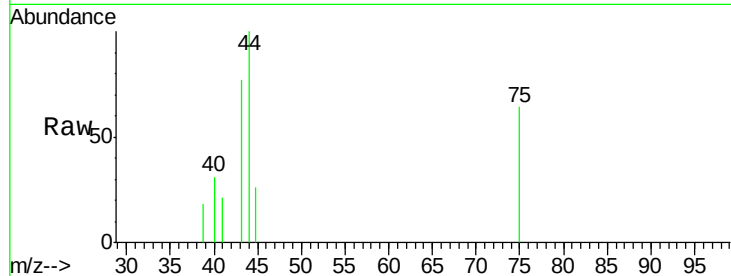
Tgt Ion: 43 Resp: 706

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 8.0 12.0#



#38

Carbon Tetrachloride

Concen: 5.19 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

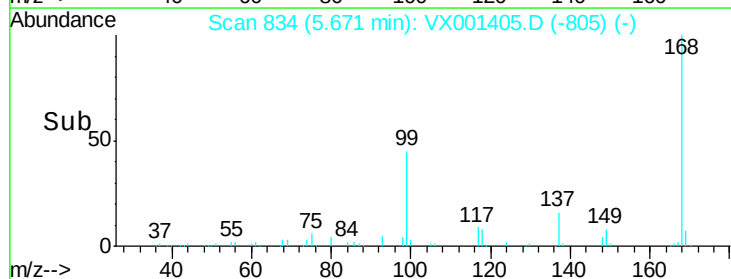
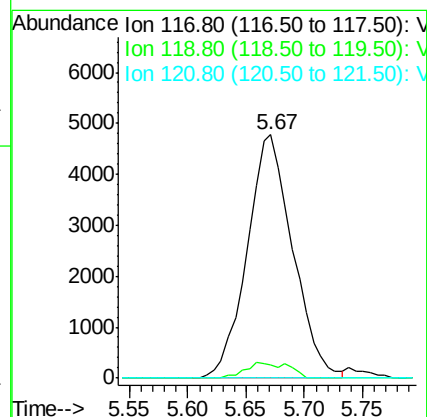
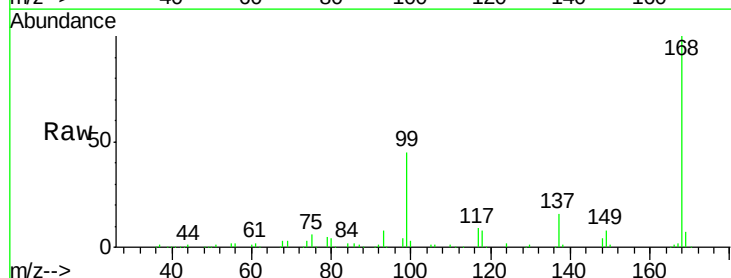
Tgt Ion: 117 Resp: 12956

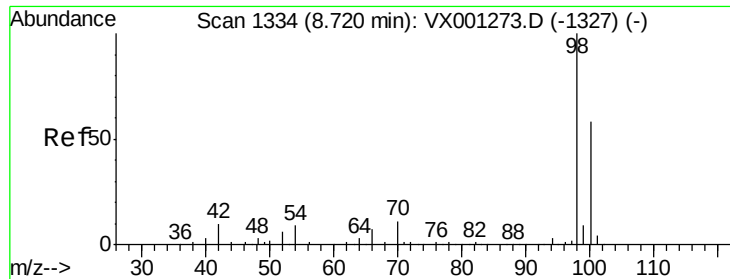
Ion Ratio Lower Upper

117 100

119 5.4 73.4 110.2#

121 0.0 25.0 37.4#

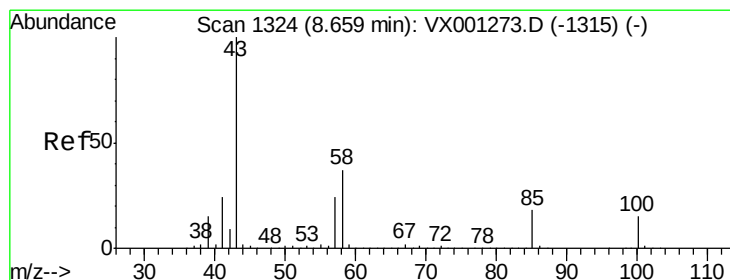
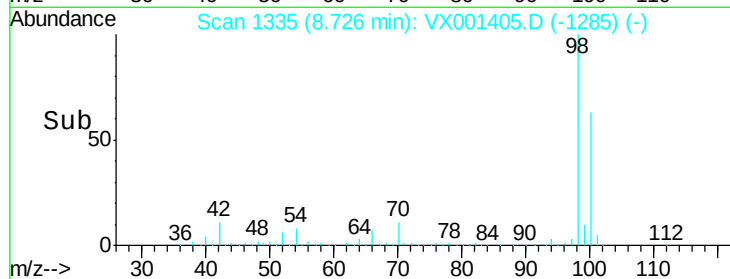
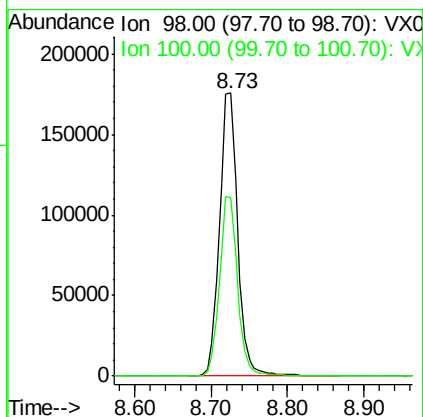
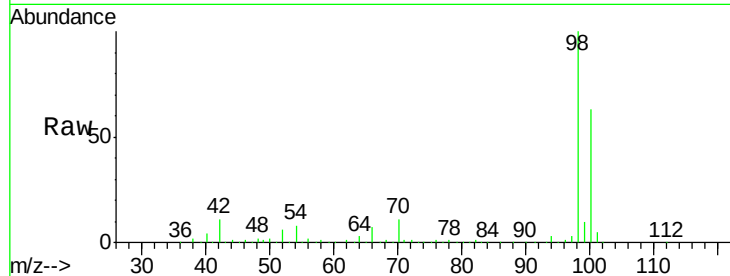




#50  
Toluene-d8  
Concen: 45.68 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. 0.01 min  
Lab File: VX001405.D  
Acq: 04 May 2018 18:59

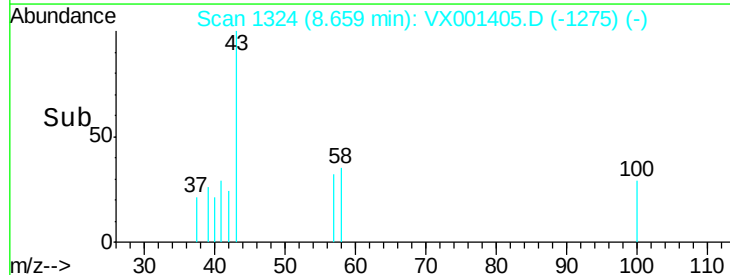
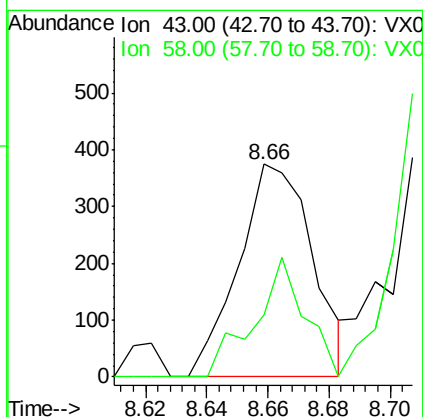
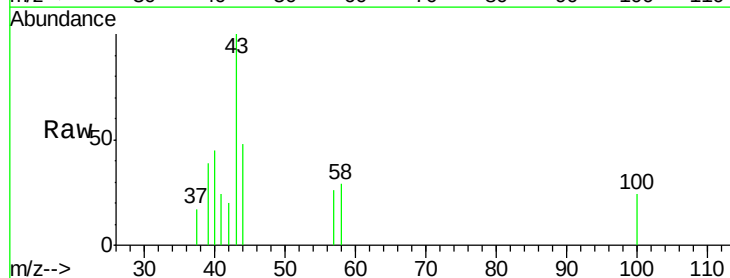
Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-10(6.5-7)

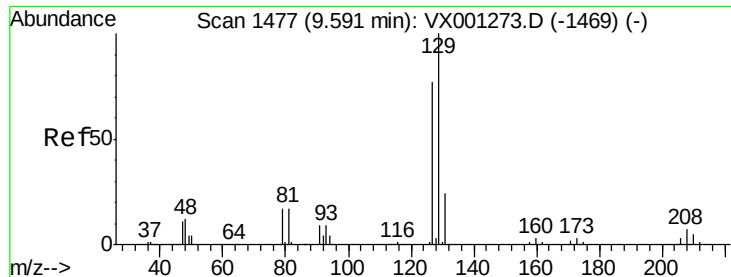
Tgt Ion: 98 Resp: 290114  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.0 76.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.25 ug/l  
RT: 8.66 min Scan# 1324  
Delta R.T. -0.00 min  
Lab File: VX001405.D  
Acq: 04 May 2018 18:59

Tgt Ion: 43 Resp: 631  
Ion Ratio Lower Upper  
43 100  
58 38.2 29.0 43.6

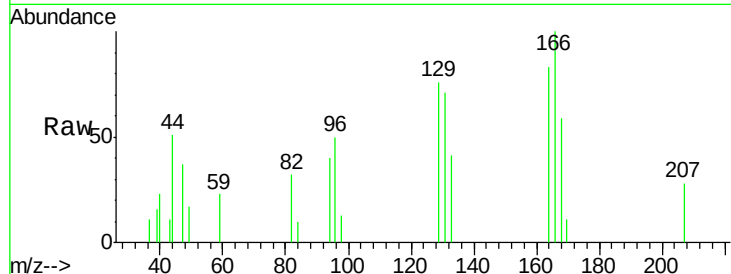




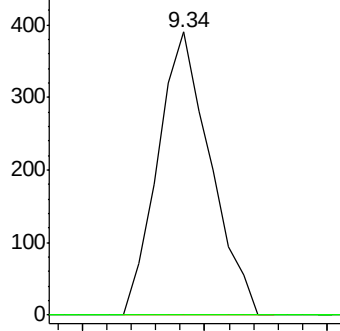
#60  
 Dibromochloromethane  
 Concen: 0.31 ug/l  
 RT: 9.34 min Scan# 1436  
 Delta R.T. -0.25 min  
 Lab File: VX001405.D  
 Acq: 04 May 2018 18:59

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 SB-10(6.5-7)

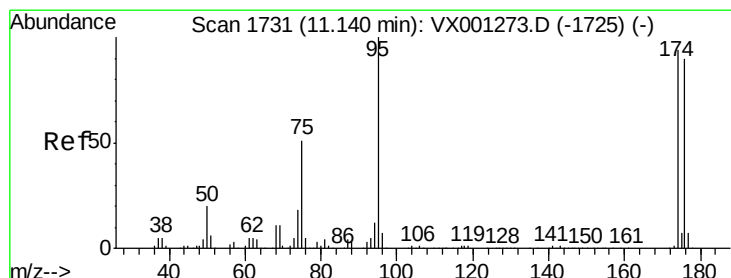
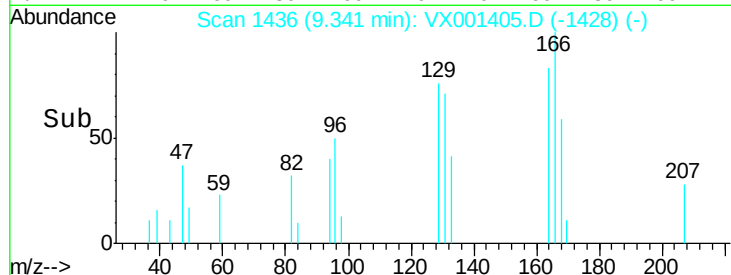
Tgt Ion:129 Resp: 582  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V  
 Ion 126.80 (126.50 to 127.50): V

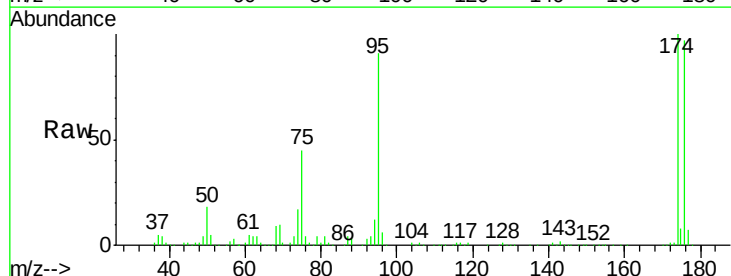


Time-->

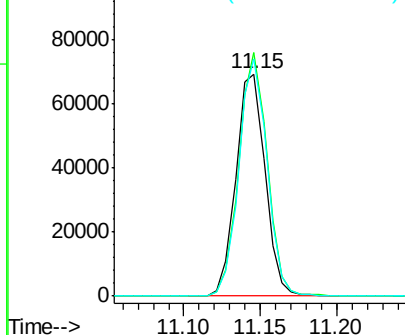


#62  
 4-Bromofluorobenzene  
 Concen: 36.21 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. 0.01 min  
 Lab File: VX001405.D  
 Acq: 04 May 2018 18:59

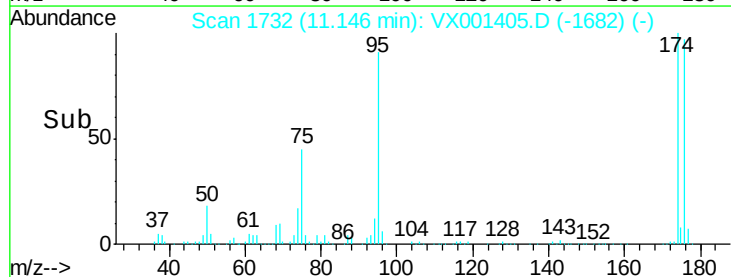
Tgt Ion: 95 Resp: 91977  
 Ion Ratio Lower Upper  
 95 100  
 174 106.1 0.0 201.8  
 176 103.0 0.0 197.2

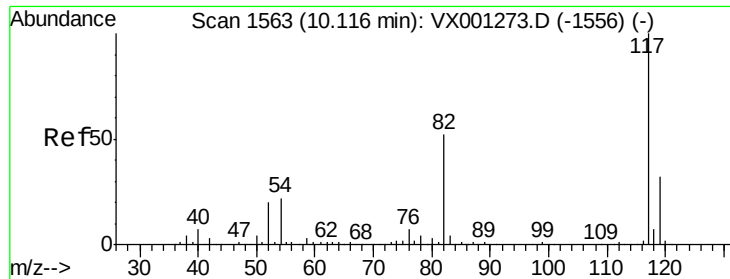


Abundance Ion 94.90 (94.60 to 95.60): VX0  
 Ion 173.80 (173.50 to 174.50): V  
 Ion 175.80 (175.50 to 176.50): V



Time-->

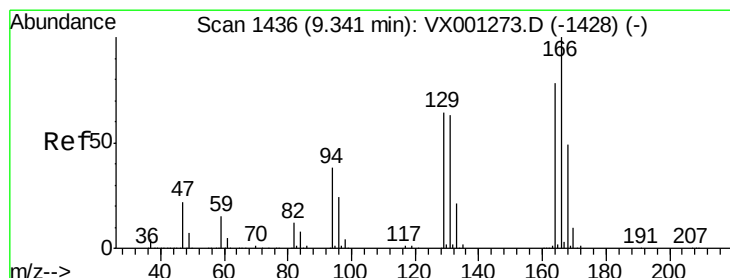
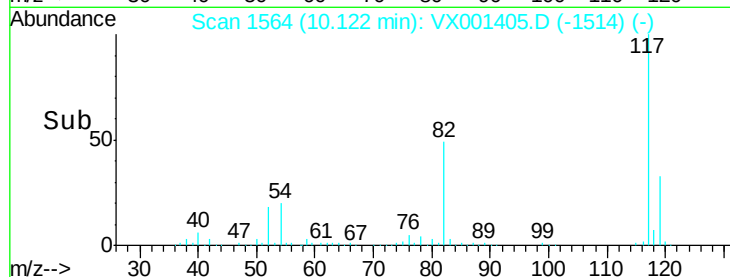
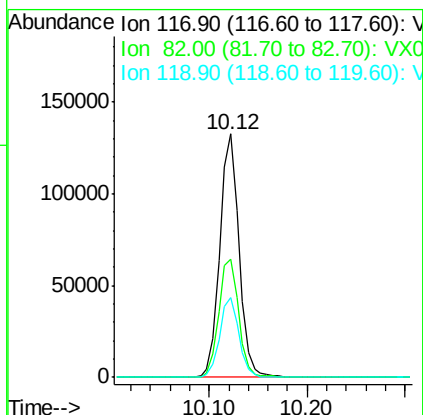
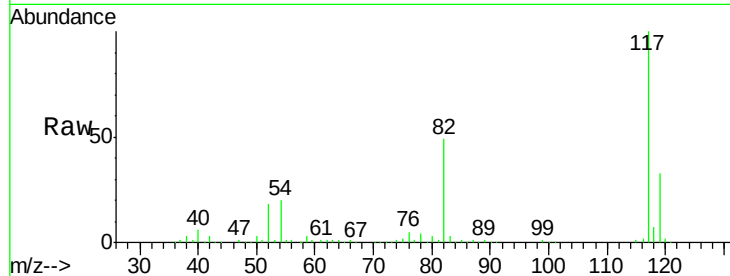




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VX001405.D  
Acq: 04 May 2018 18:59

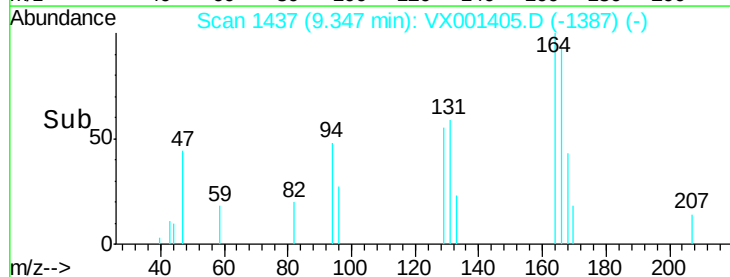
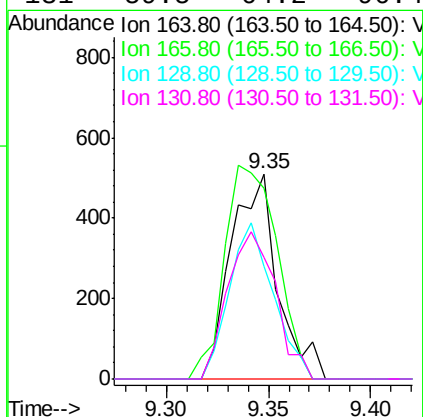
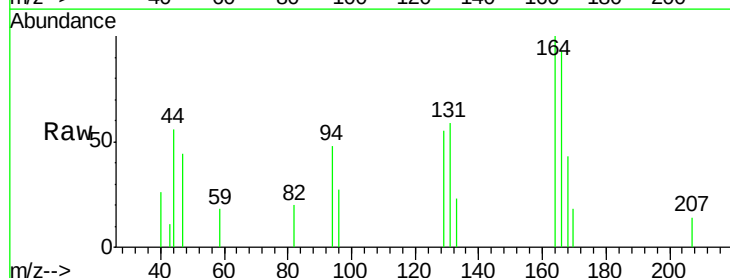
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-10(6.5-7)

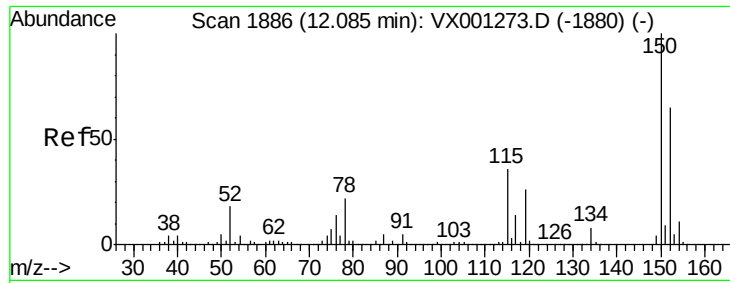
Tgt Ion:117 Resp: 181270  
Ion Ratio Lower Upper  
117 100  
82 48.8 41.4 62.0  
119 32.8 25.5 38.3



#64  
Tetrachloroethene  
Concen: 0.38 ug/l  
RT: 9.35 min Scan# 1437  
Delta R.T. 0.01 min  
Lab File: VX001405.D  
Acq: 04 May 2018 18:59

Tgt Ion:164 Resp: 813  
Ion Ratio Lower Upper  
164 100  
166 92.8 102.3 153.5#  
129 55.0 65.1 97.7#  
131 59.5 64.2 96.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001405.D

Acq: 04 May 2018 18:59

Instrument :

MSVOA\_X

ClientSampleId :

SB-10(6.5-7)

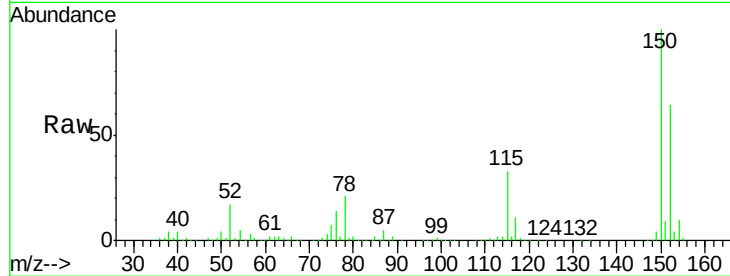
Tgt Ion:152 Resp: 101418

Ion Ratio Lower Upper

152 100

115 50.6 38.6 115.7

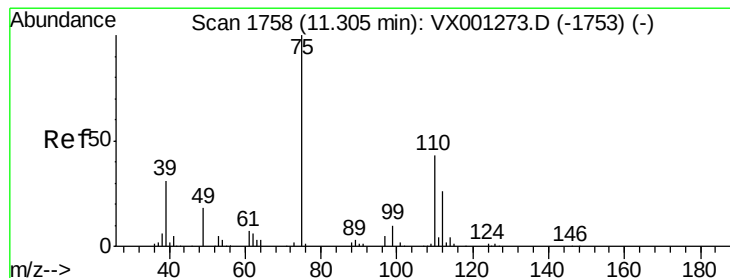
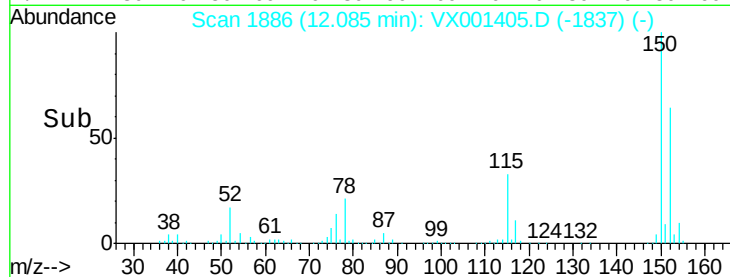
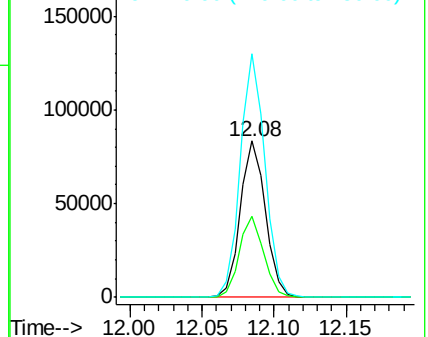
150 153.1 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 25.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001405.D

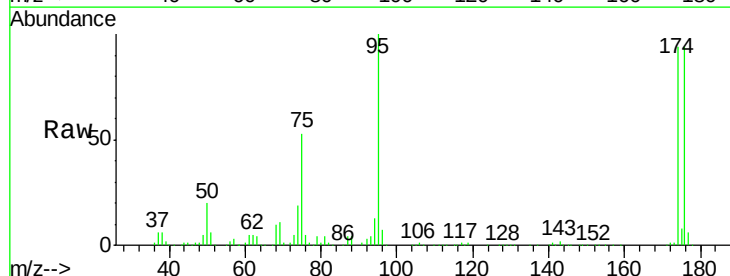
Acq: 04 May 2018 18:59

Tgt Ion: 75 Resp: 47044

Ion Ratio Lower Upper

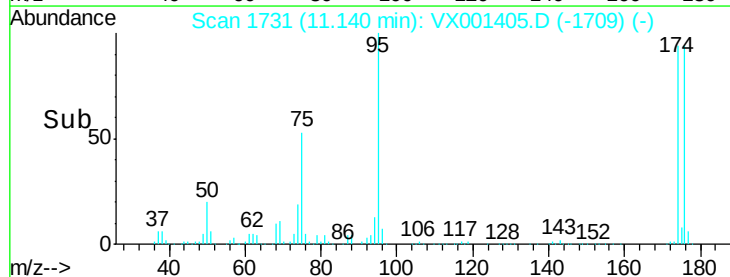
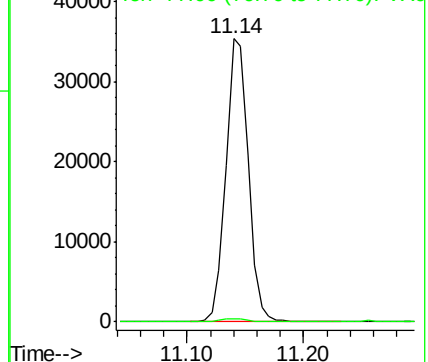
75 100

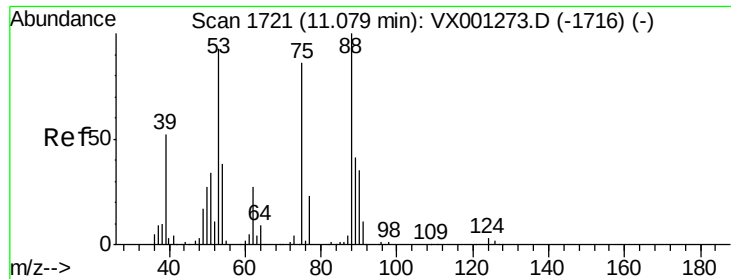
77 1.3 18.9 56.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 78.90 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX001405.D  
 Acq: 04 May 2018 18:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-10(6.5-7)

Tgt Ion: 75 Resp: 47044  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 87.1 130.7#  
 89 0.0 38.9 58.3#

