

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\  
 Data File : VX005322.D  
 Acq On : 13 Oct 2018 04:57  
 Operator : JC/MD  
 Sample : J5392-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 13 05:29:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 264465   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 384760   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 350567   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 167066   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 154260   | 52.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.12% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 122434   | 48.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.08%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 461684   | 52.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.54% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 150567   | 45.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.62%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 317      | 0.767     | ug/l # | 80     |
| 6) Chloroethane                | 1.71  | 64   | 462      | 0.567     | ug/l # | 76     |
| 10) Methyl Iodide              | 2.52  | 142  | 29       | 2.500     | ug/l # | 60     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2402     | 2.901     | ug/l # | 76     |
| 13) Acrolein                   | 2.29  | 56   | 53       | Below Cal | #      | 1      |
| 16) Acetone                    | 2.45  | 43   | 20535    | 12.100    | ug/l   | 93     |
| 18) Methyl Acetate             | 2.78  | 43   | 9098     | 1.884     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.86  | 84   | 245502   | 100.607   | ug/l   | 96     |
| 25) 2-Butanone                 | 4.70  | 43   | 3864     | 1.556     | ug/l   | 94     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1583     | 0.999     | ug/l # | 81     |
| 30) Chloroform                 | 5.21  | 83   | 2308     | 0.508     | ug/l   | 97     |
| 31) Cyclohexane                | 5.66  | 56   | 4851     | 1.202     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 17358    | 4.658     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 23229    | 6.204     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 6.46  | 43   | 148532   | 23.267    | ug/l   | 96     |
| 44) Trichloroethene            | 7.22  | 130  | 231      | Below Cal |        | 72     |
| 47) Bromodichloromethane       | 7.90  | 83   | 681      | 0.203     | ug/l # | 63     |
| 48) Methyl methacrylate        | 7.69  | 41   | 5778     | 1.745     | ug/l # | 23     |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 2170     | 0.491     | ug/l # | 34     |
| 54) cis-1,3-Dichloropropene    | 8.62  | 75   | 799      | 0.204     | ug/l # | 55     |
| 59) 2-Hexanone                 | 9.44  | 43   | 1008     | 0.283     | ug/l # | 22     |
| 67) Ethyl Benzene              | 10.25 | 91   | 5184     | 0.428     | ug/l   | 93     |
| 68) m/p-Xylenes                | 10.36 | 106  | 5806     | 1.234     | ug/l   | 94     |
| 69) o-Xylene                   | 10.70 | 106  | 3109     | 0.685     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 73998    | 22.835    | ug/l # | 37     |
| 78) n-propylbenzene            | 11.36 | 91   | 3958     | 0.346     | ug/l   | 99     |
| 79) 2-Chlorotoluene            | 11.44 | 91   | 1915     | 0.274     | ug/l # | 39     |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 5929     | 0.697     | ug/l   | 97     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 73998    | 69.383    | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 17927    | 2.048     | ug/l   | 97     |
| 89) n-Butylbenzene             | 12.38 | 91   | 1972     | 0.236     | ug/l # | 39     |
| 90) Hexachloroethane           | 12.58 | 117  | 387      | 0.244     | ug/l # | 3      |
| 95) Naphthalene                | 13.83 | 128  | 289576   | 25.133    | ug/l   | 99     |

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Quant Title : SW846 8260  
QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

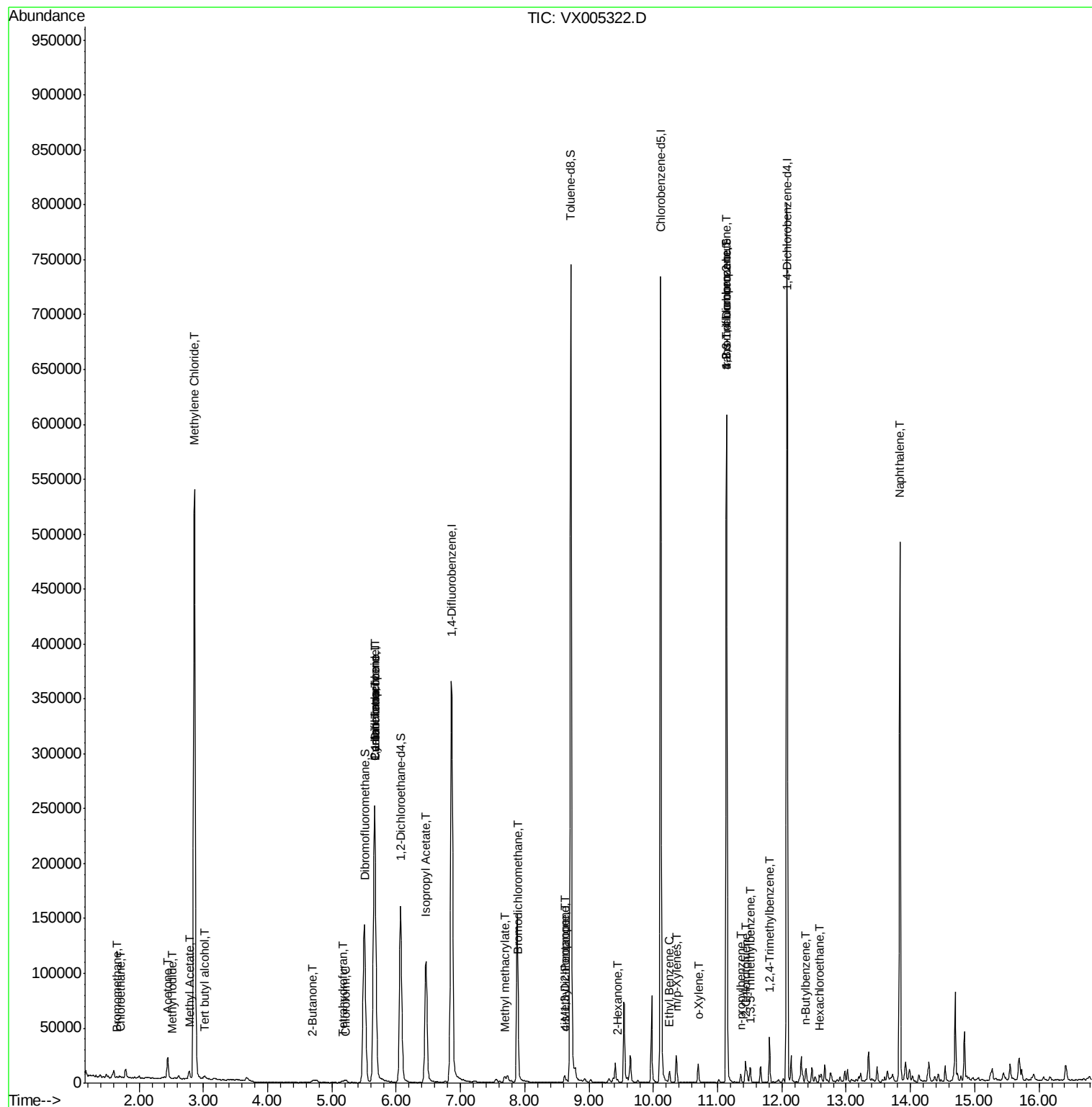
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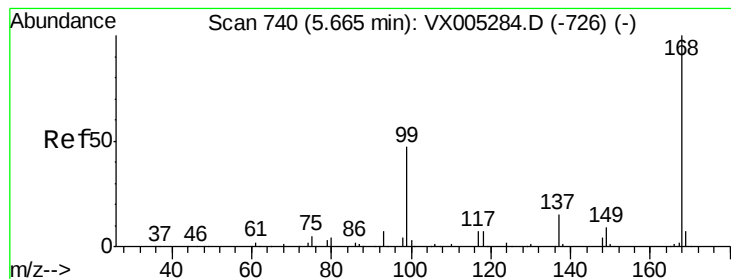
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

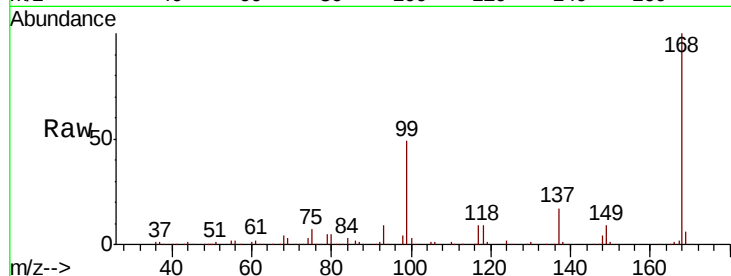
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:168 Resp: 264465

Ion Ratio Lower Upper

168 100

99 49.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

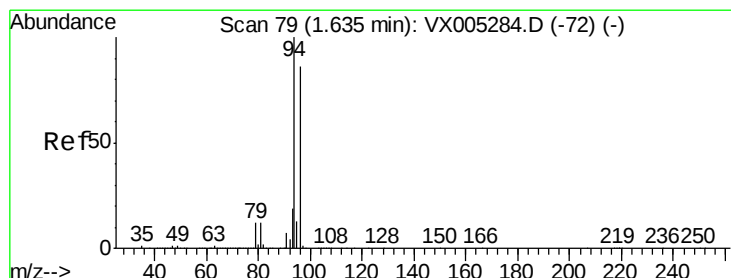
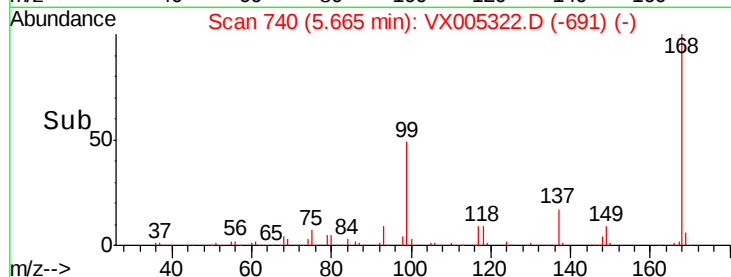
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.767 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005322.D

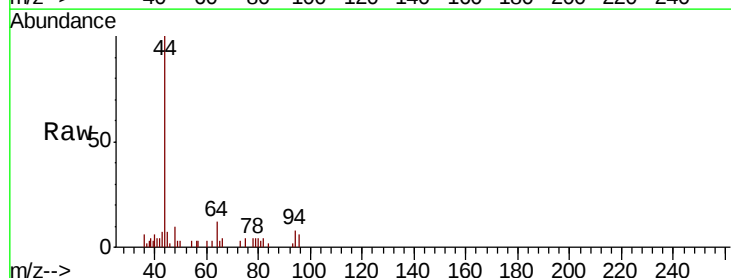
Acq: 13 Oct 2018 04:57

Tgt Ion: 94 Resp: 317

Ion Ratio Lower Upper

94 100

96 74.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

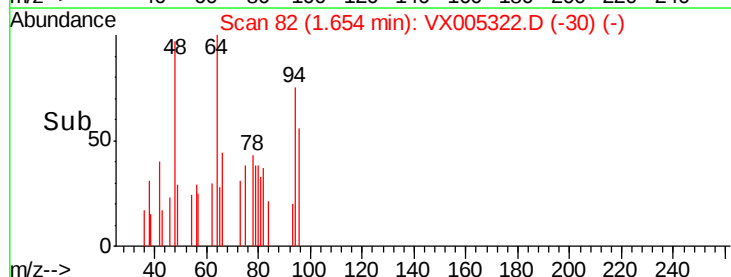
100

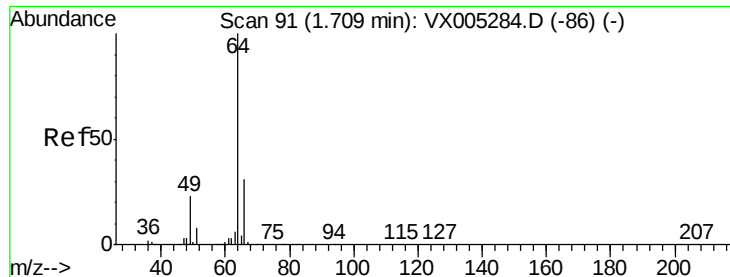
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.567 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

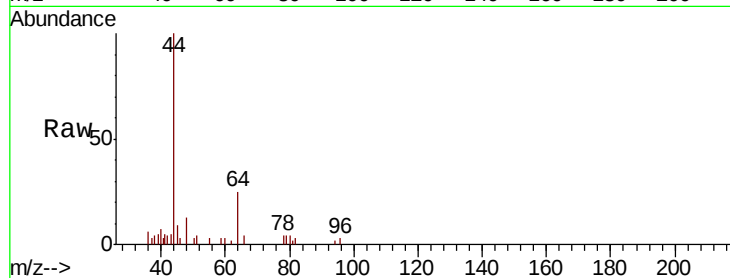
ClientSampleId :

Tot Ion: 64 Resp: 462

Ion Ratio Lower Upper

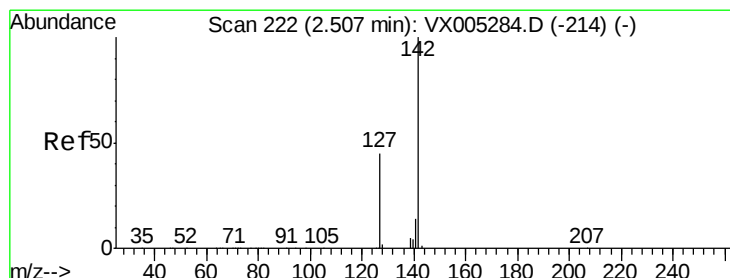
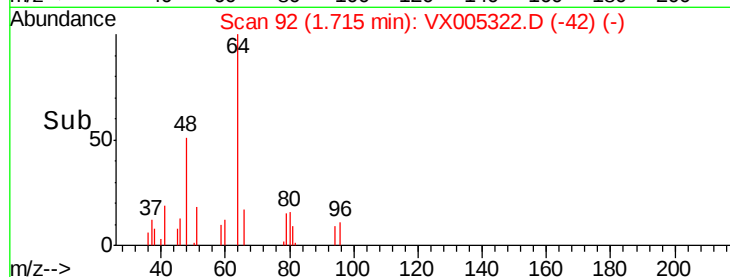
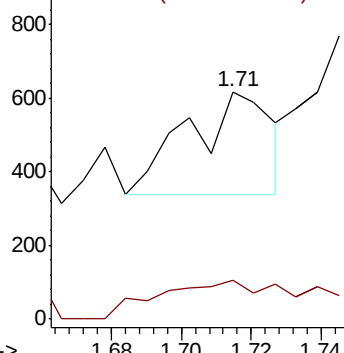
64 100

66 17.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.500 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

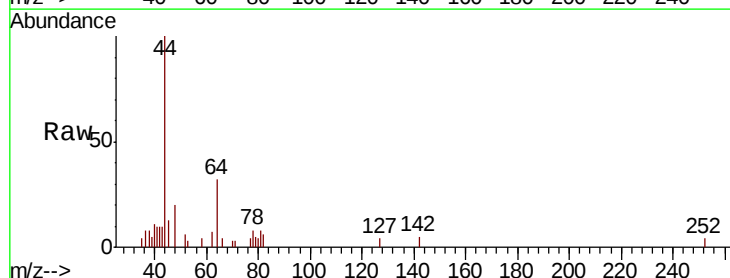
Tgt Ion: 142 Resp: 29

Ion Ratio Lower Upper

142 100

127 69.0 33.8 50.6#

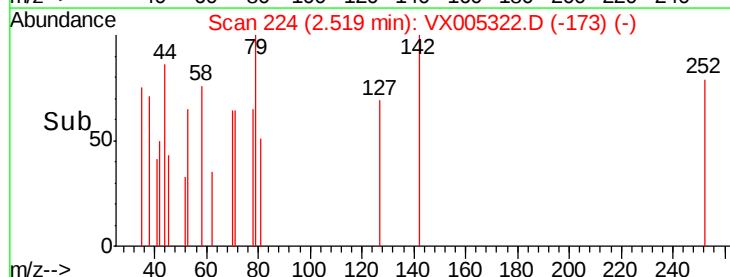
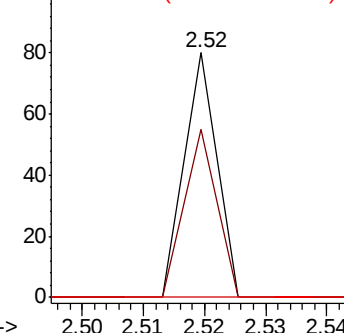
141 0.0 11.4 17.0#

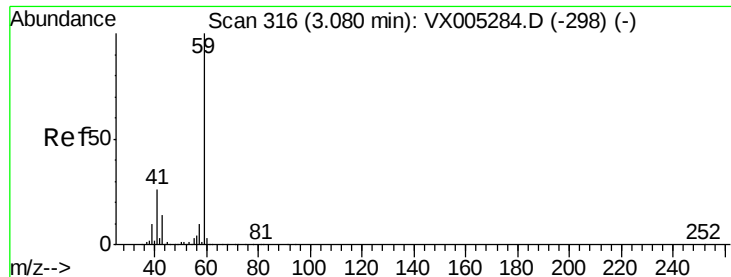


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

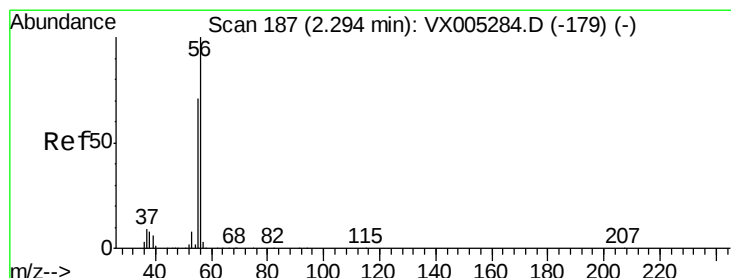
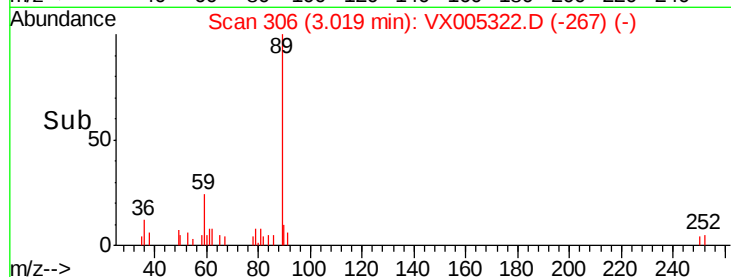
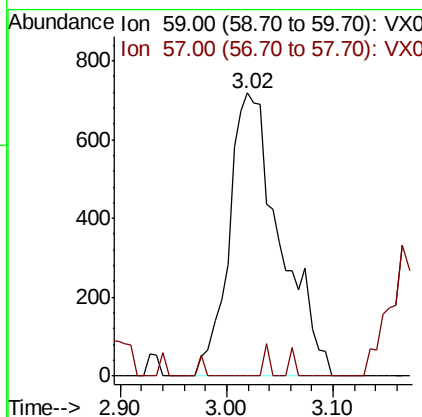
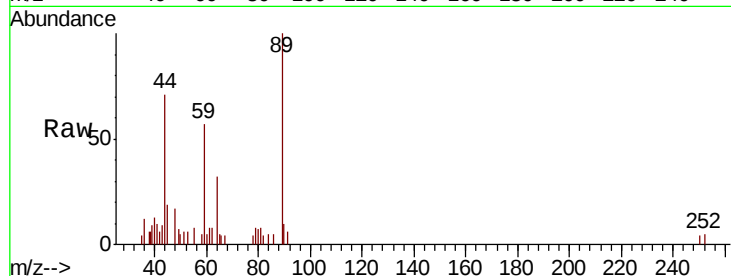




#11  
Tert butyl alcohol  
Concen: 2.901 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.06 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

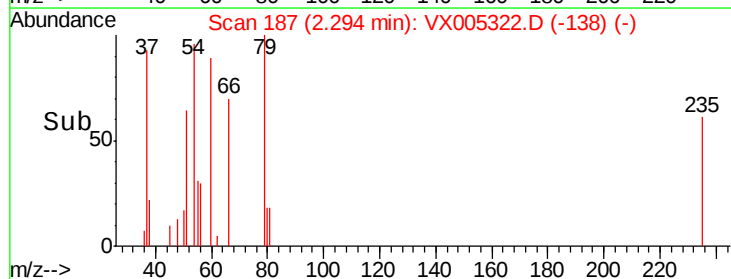
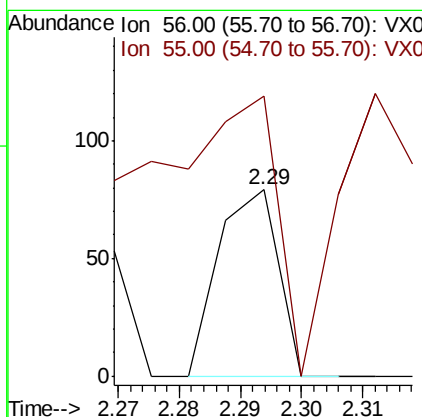
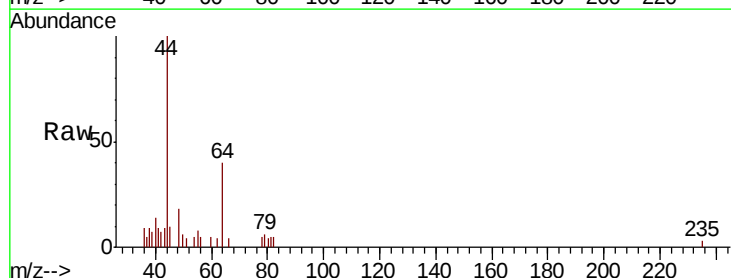
Instrument :  
MSVOA\_X  
ClientSampleId :

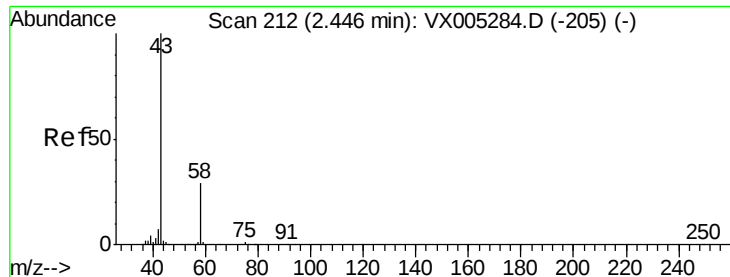
Tot Ion: 59 Resp: 2402  
Ion Ratio Lower Upper  
59 100  
57 1.2 8.2 12.4#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.29 min Scan# 187  
Delta R.T. 0.00 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Tgt Ion: 56 Resp: 53  
Ion Ratio Lower Upper  
56 100  
55 539.6 54.7 82.1#





#16

Acetone

Concen: 12.100 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

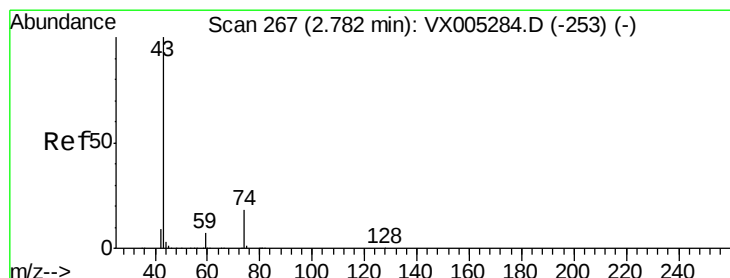
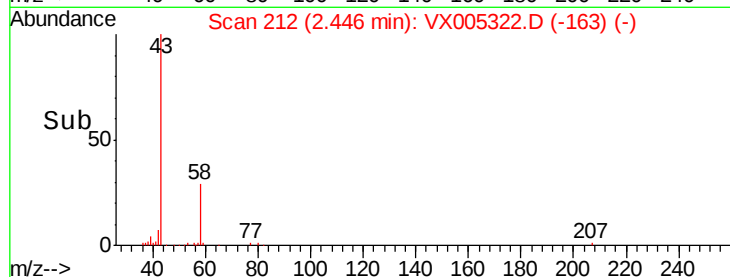
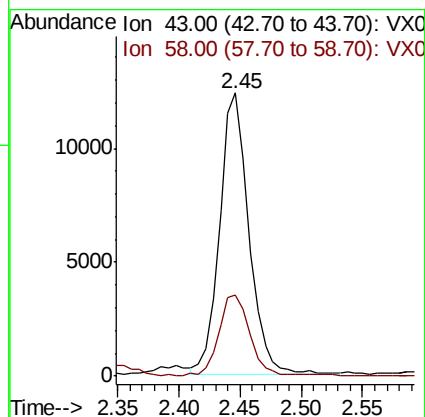
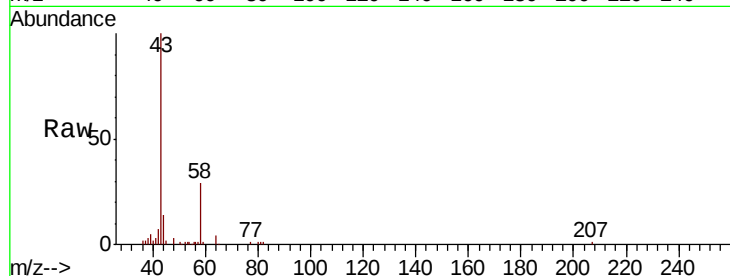
ClientSampleId :

Tot Ion: 43 Resp: 20535

Ion Ratio Lower Upper

43 100

58 29.1 26.2 39.4



#18

Methyl Acetate

Concen: 1.884 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005322.D

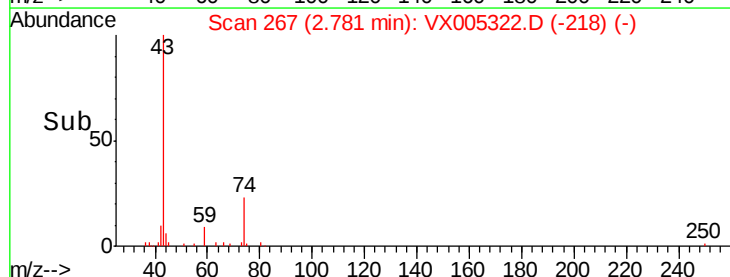
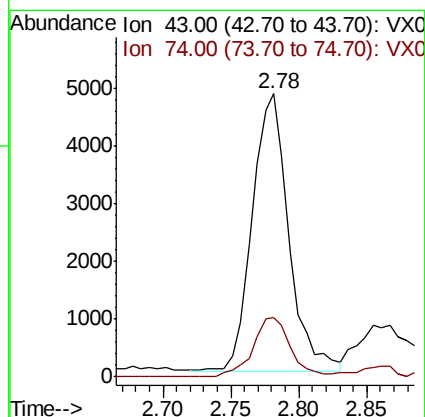
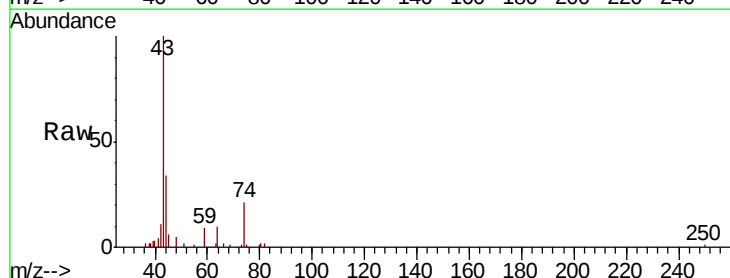
Acq: 13 Oct 2018 04:57

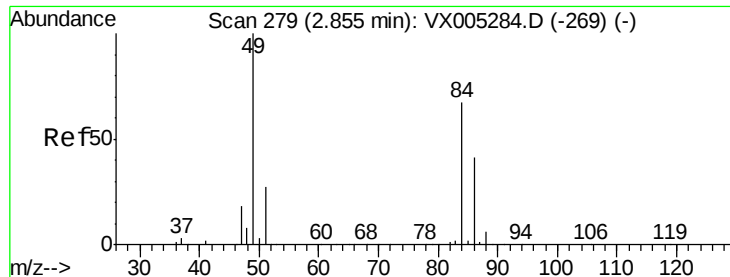
Tgt Ion: 43 Resp: 9098

Ion Ratio Lower Upper

43 100

74 22.1 19.4 29.2





#20

Methvlene Chloride

Concen: 100.607 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampled :

Tot Ion: 84 Resp: 245502

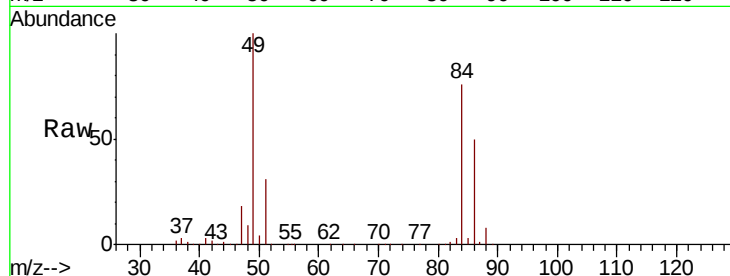
Ion Ratio Lower Upper

84 100

49 131.8 101.2 151.8

51 40.9 29.5 44.3

86 65.3 52.3 78.5

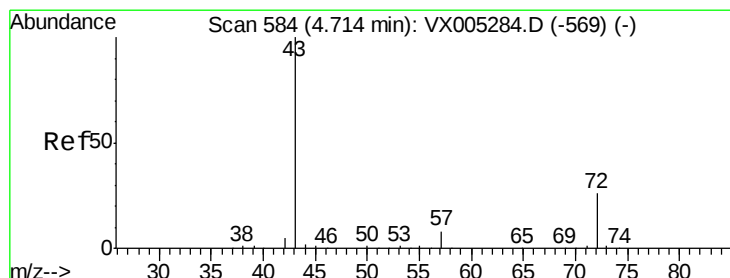
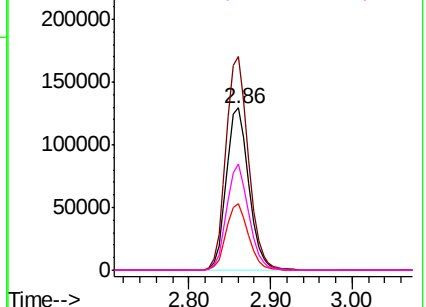
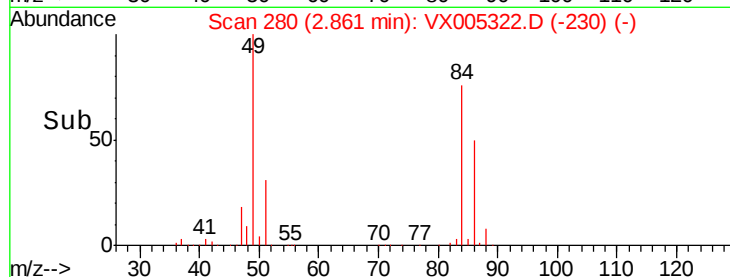


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.556 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.02 min

Lab File: VX005322.D

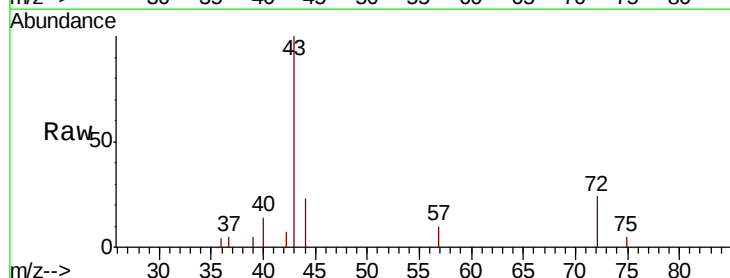
Acq: 13 Oct 2018 04:57

Tgt Ion: 43 Resp: 3864

Ion Ratio Lower Upper

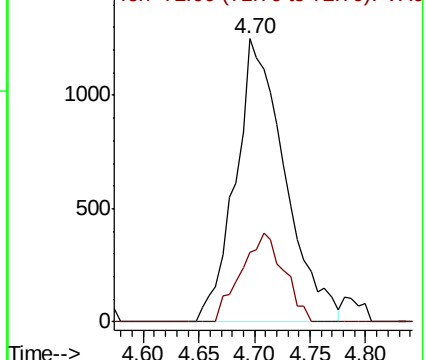
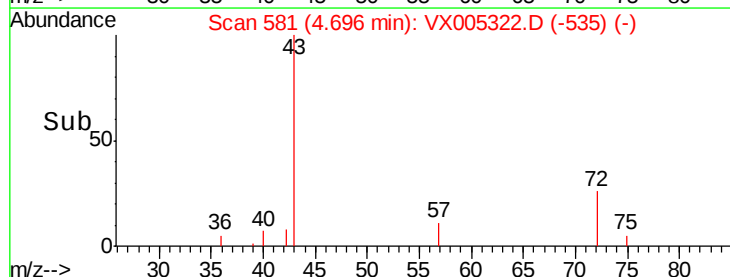
43 100

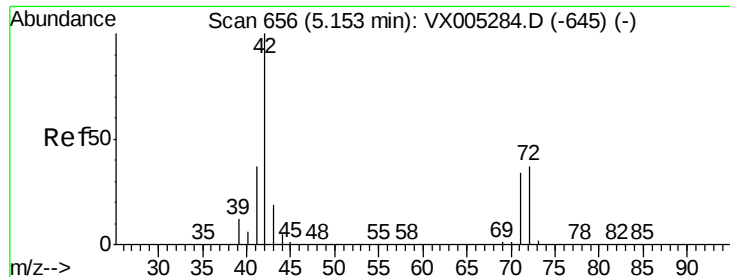
72 24.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.999 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

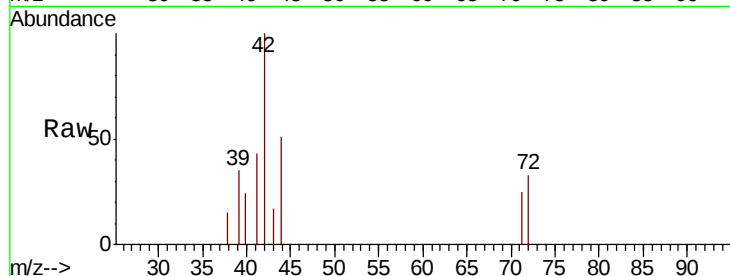
Tot Ion: 42 Resp: 1583

Ion Ratio Lower Upper

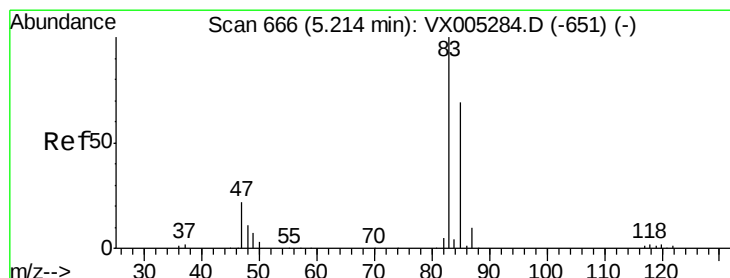
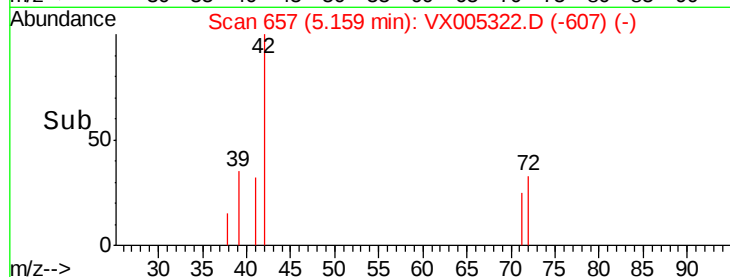
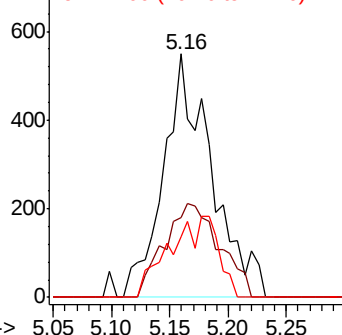
42 100

72 44.3 37.4 56.0

71 19.6 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0  
Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.508 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX005322.D

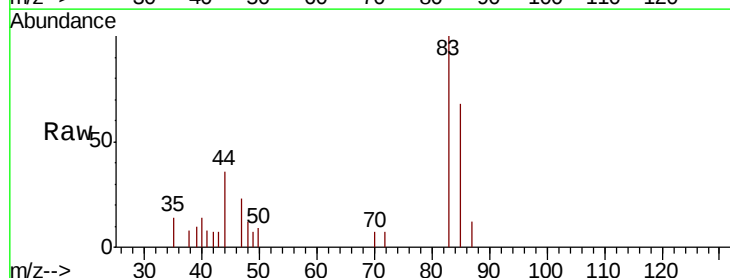
Acq: 13 Oct 2018 04:57

Tgt Ion: 83 Resp: 2308

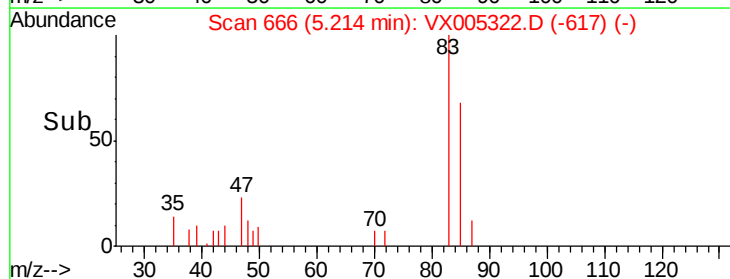
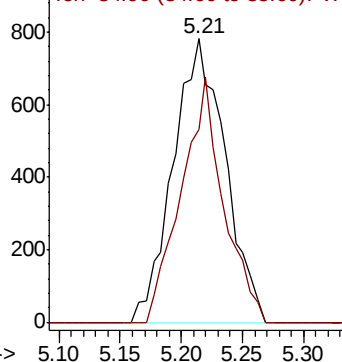
Ion Ratio Lower Upper

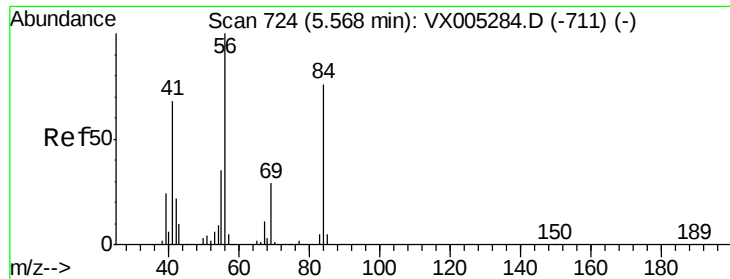
83 100

85 67.9 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0  
Ion 84.90 (84.60 to 85.60): VX0

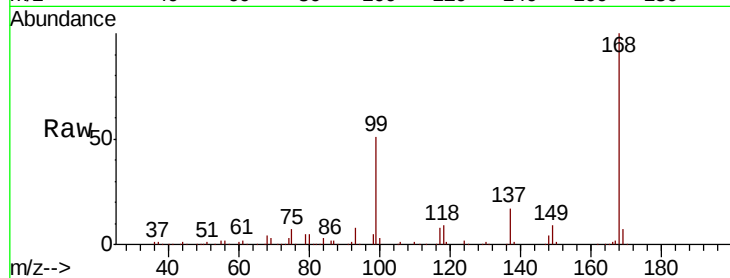




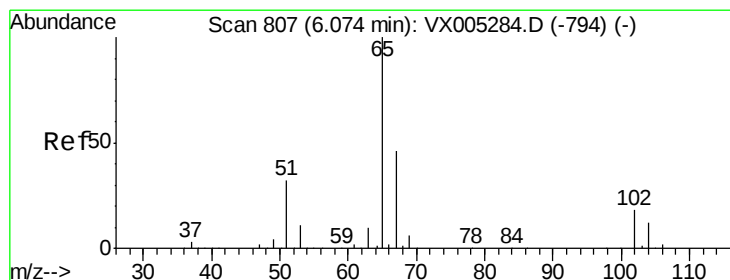
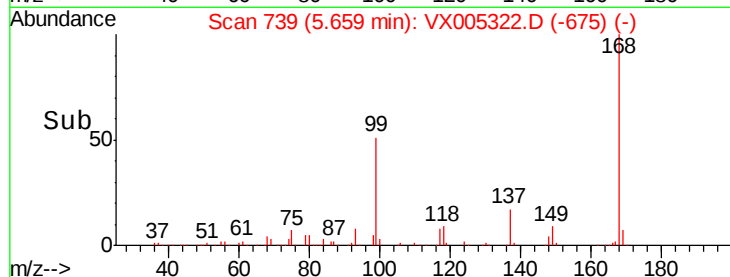
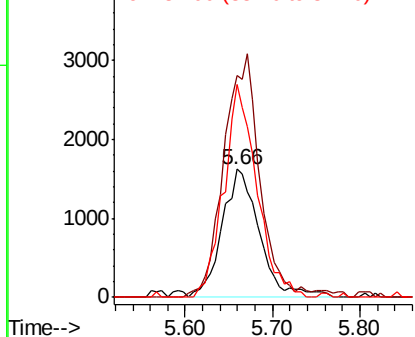
#31  
Cyclohexane  
Concen: 1.202 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.09 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 56 Resp: 4851  
Ion Ratio Lower Upper  
56 100  
69 169.4 25.4 38.2#  
84 165.9 71.4 107.2#

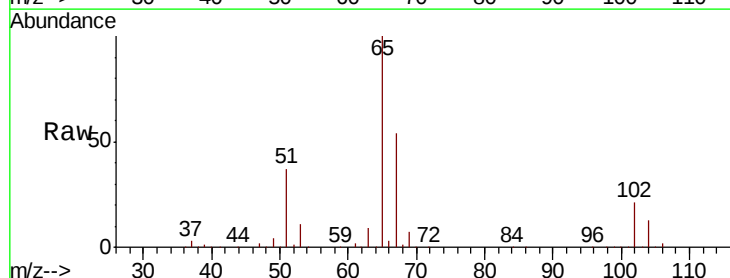


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

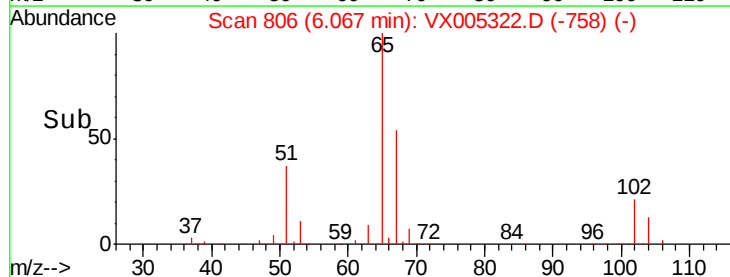
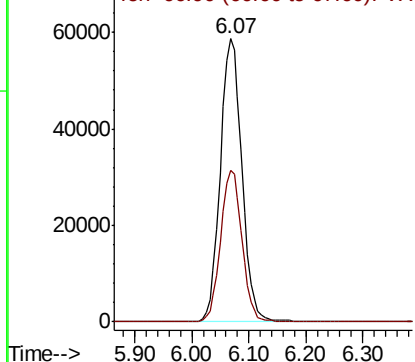


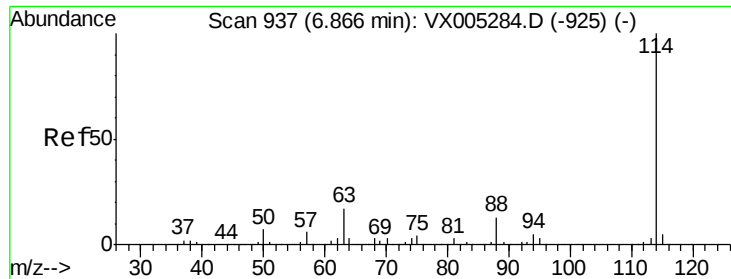
#33  
1,2-Dichloroethane-d4  
Concen: 52.556 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Tgt Ion: 65 Resp: 154260  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

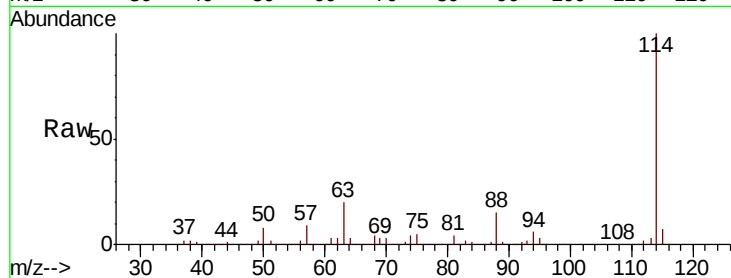




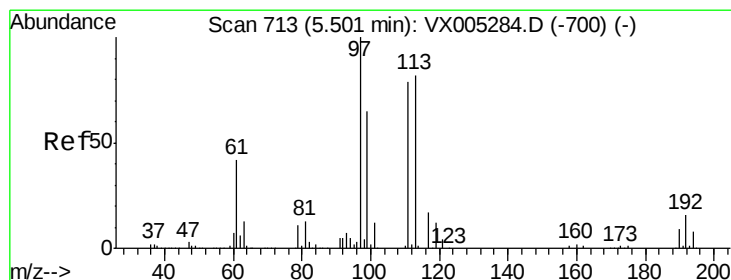
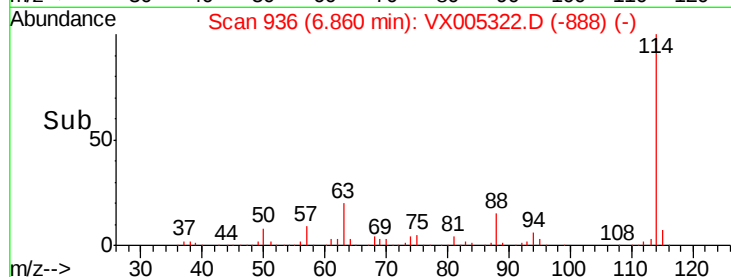
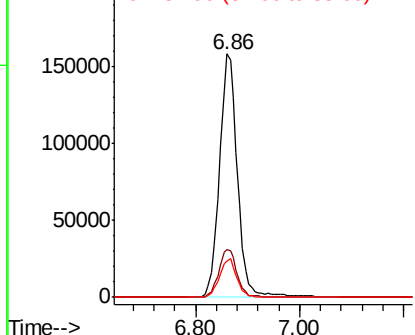
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.01 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:114 Resp: 384760  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 39.0  
 88 15.1 0.0 30.4

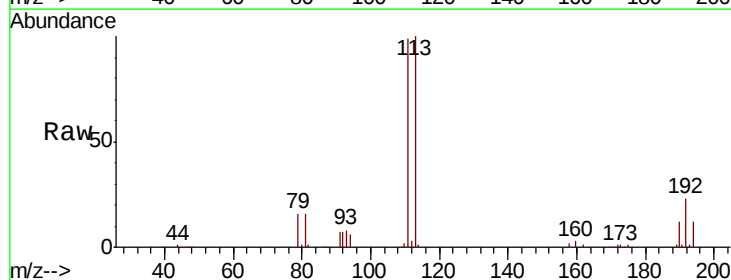


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

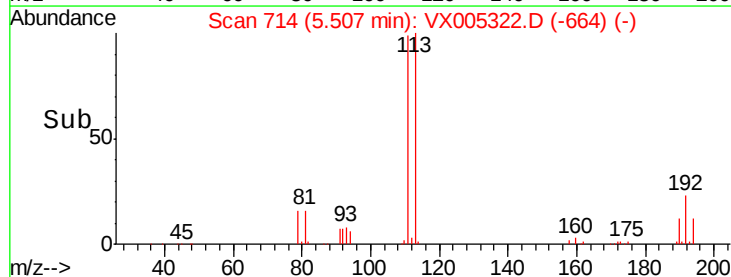
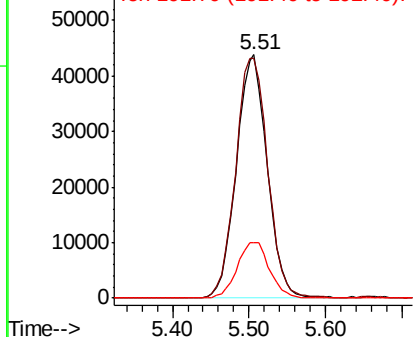


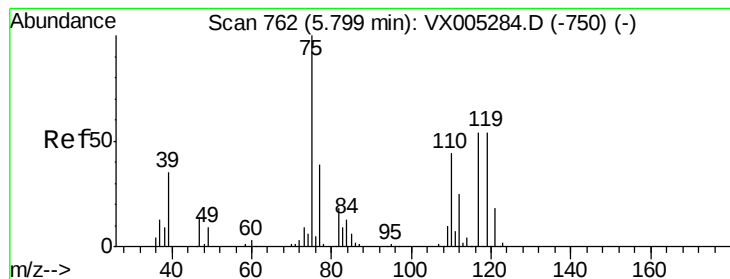
#35  
 Dibromofluoromethane  
 Concen: 48.044 ug/l  
 RT: 5.51 min Scan# 714  
 Delta R.T. 0.01 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Tgt Ion:113 Resp: 122434  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 82.4 123.6  
 192 23.9 19.4 29.2



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: 4.658 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

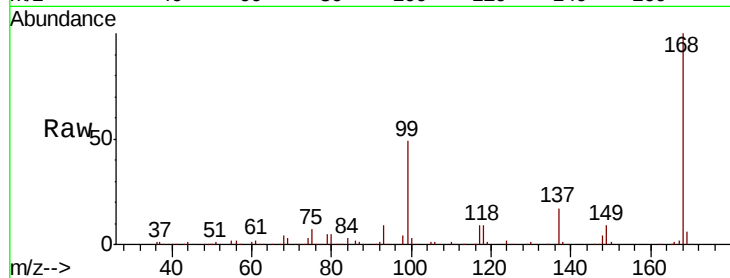
Tot Ion: 75 Resp: 17358

Ion Ratio Lower Upper

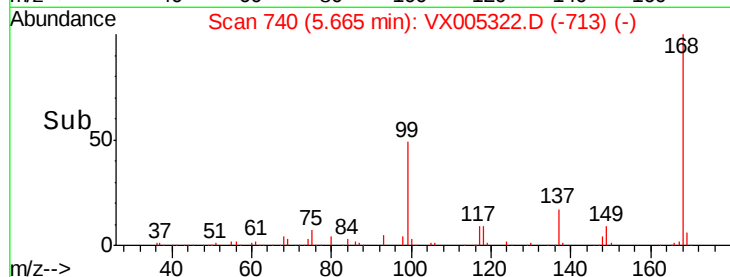
75 100

110 9.0 18.0 54.0#

77 0.1 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX005322.D (-713) (-)

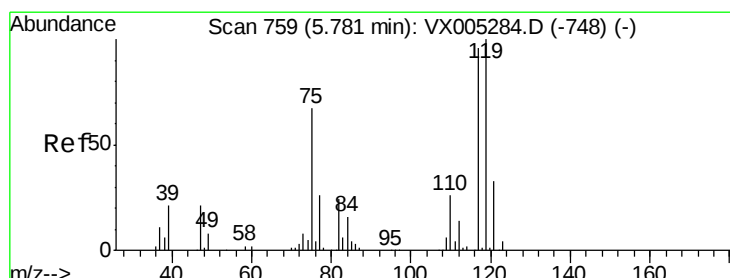


Ion 109.90 (109.60 to 110.60): VX005322.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX005322.D (-713) (-)

5.67

Time-->



#38

Carbon Tetrachloride

Concen: 6.204 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

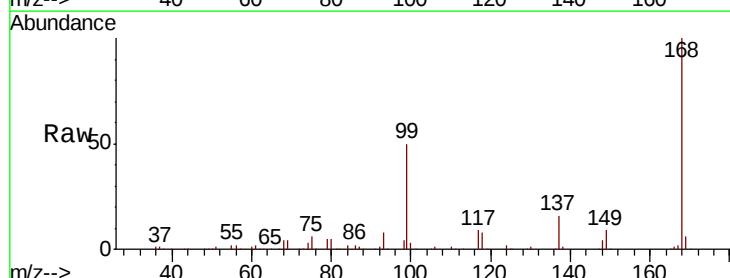
Tgt Ion: 117 Resp: 23229

Ion Ratio Lower Upper

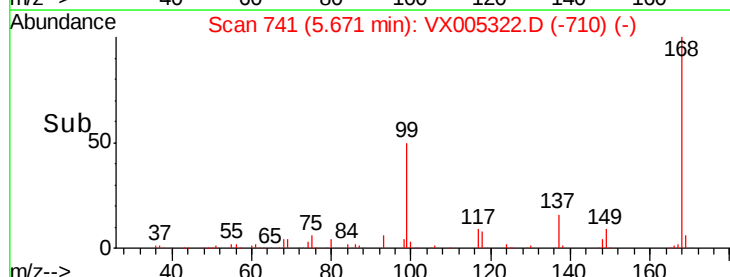
117 100

119 5.3 78.8 118.2#

121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): VX005322.D (-710) (-)

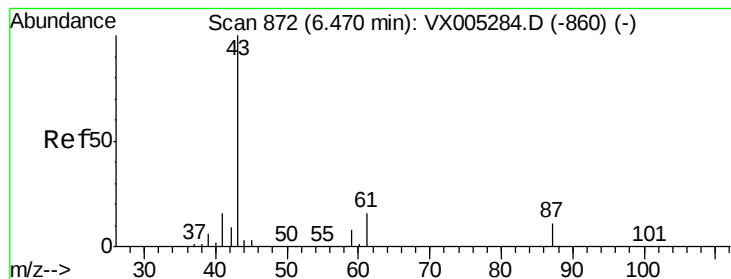


Ion 118.80 (118.50 to 119.50): VX005322.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX005322.D (-710) (-)

5.67

Time-->

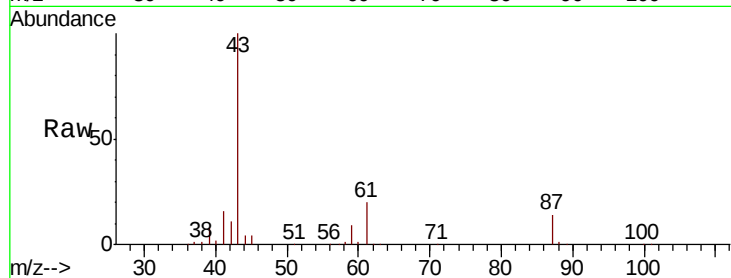


#43

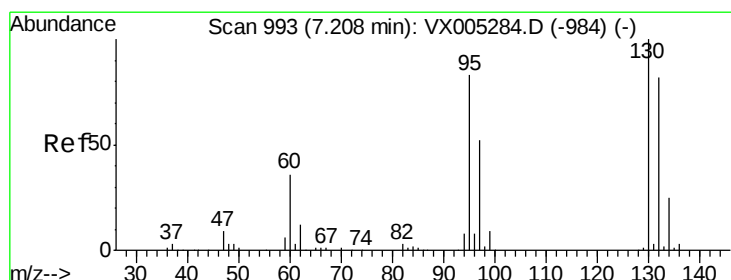
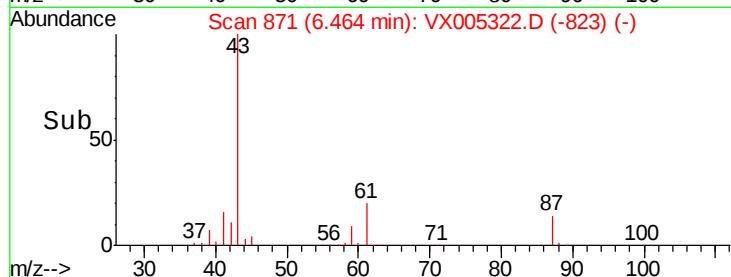
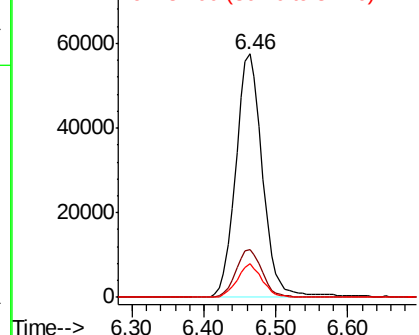
Isopropyl Acetate  
 Concen: 23.267 ug/l  
 RT: 6.46 min Scan# 871  
 Delta R.T. -0.01 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion   | 43   | Resp  | 148532 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 61        | 19.5 | 17.0  | 25.4   |
| 87        | 12.9 | 11.4  | 17.2   |



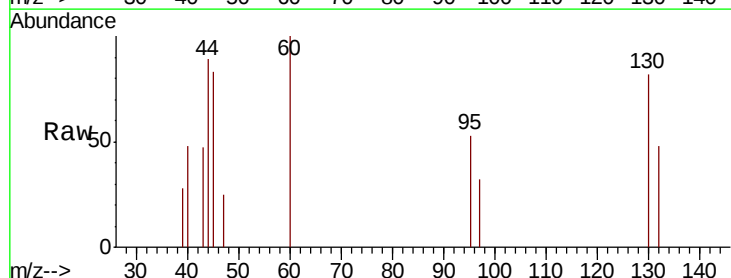
Abundance Ion 43.00 (42.70 to 43.70): VX0  
 Ion 61.00 (60.70 to 61.70): VX0  
 Ion 87.00 (86.70 to 87.70): VX0



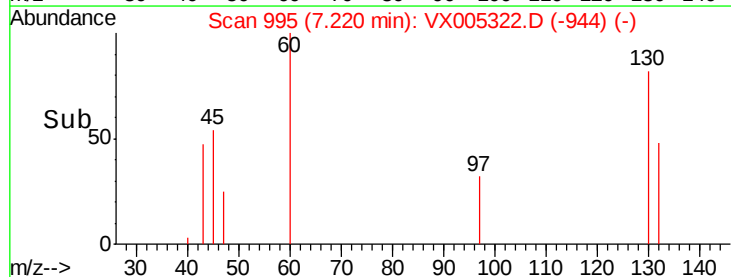
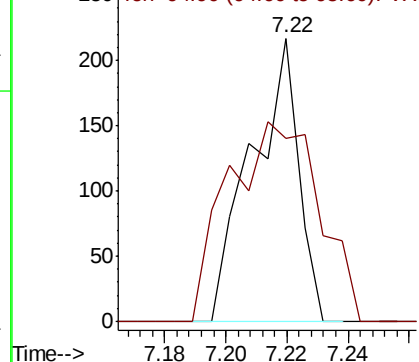
#44

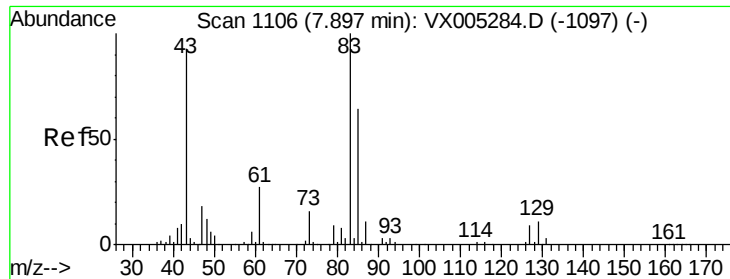
Trichloroethene  
 Concen: Below Cal  
 RT: 7.22 min Scan# 995  
 Delta R.T. 0.01 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

| Tgt Ion   | 130  | Resp  | 231   |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 95        | 64.5 | 0.0   | 181.6 |



Abundance Ion 129.80 (129.50 to 130.50): V  
 Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.203 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

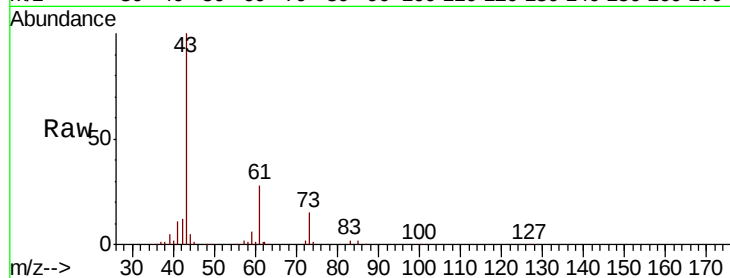
Tot Ion: 83 Resp: 681

Ion Ratio Lower Upper

83 100

85 94.2 50.9 76.3#

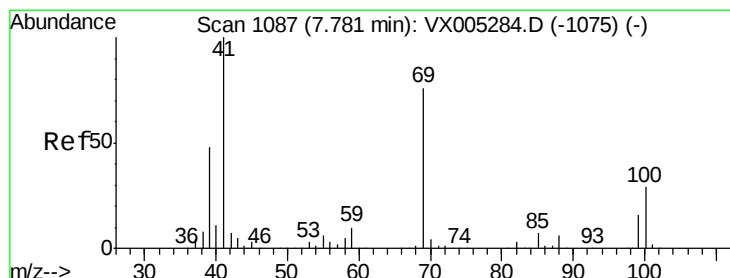
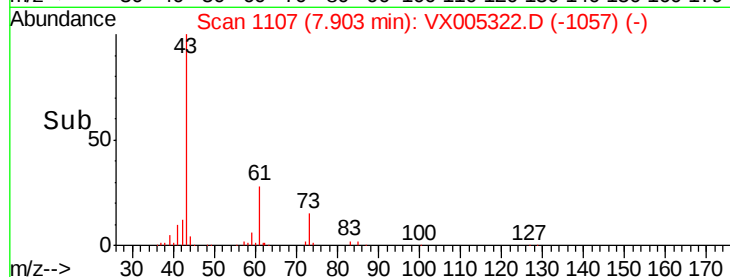
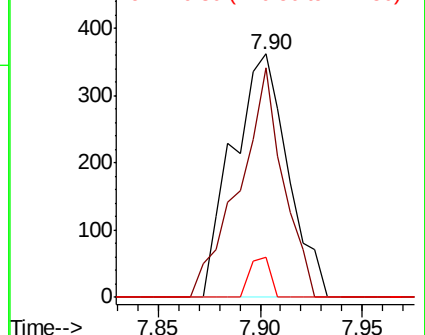
127 16.6 7.3 10.9#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 1.745 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

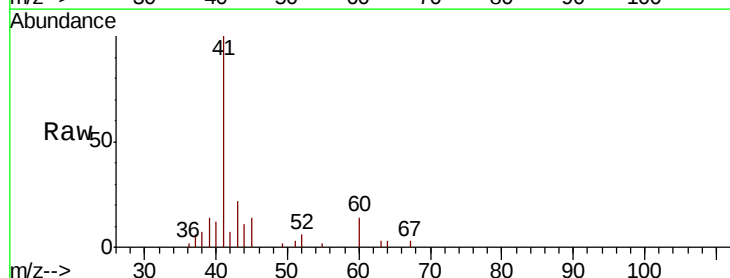
Tgt Ion: 41 Resp: 5778

Ion Ratio Lower Upper

41 100

69 0.3 70.2 105.4#

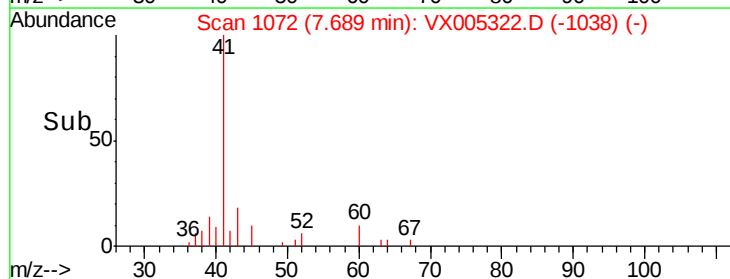
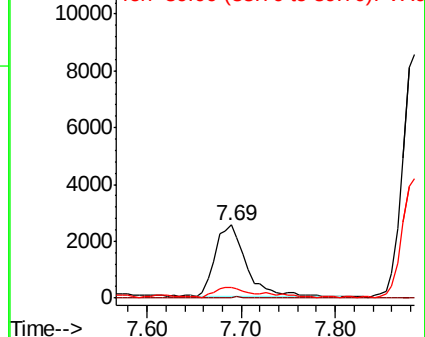
39 18.1 42.7 64.1#

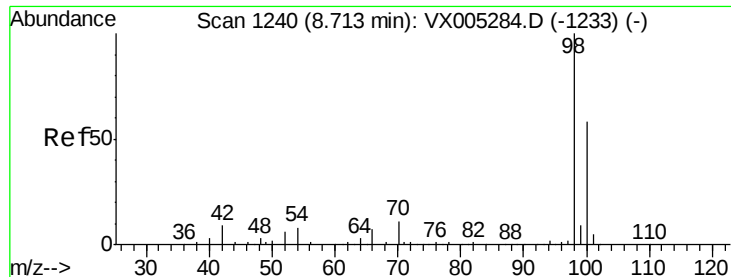


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 52.772 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

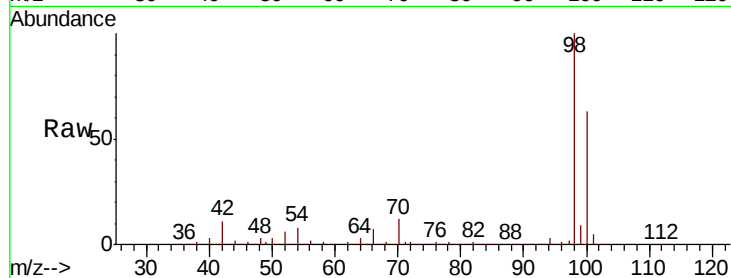
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 98 Resp: 461684

Ion Ratio Lower Upper

98 100

100 63.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

300000

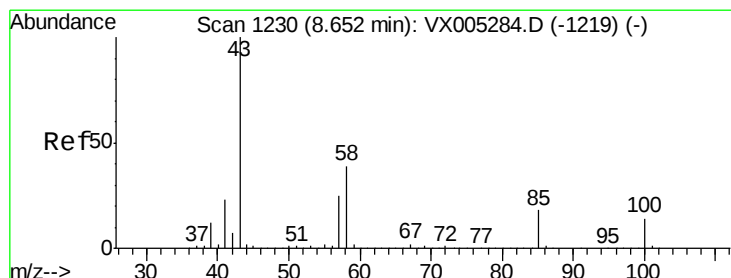
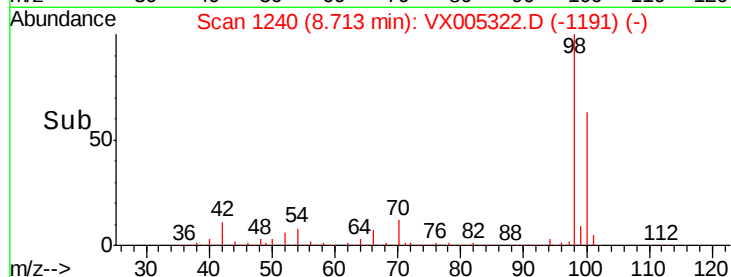
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.491 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005322.D

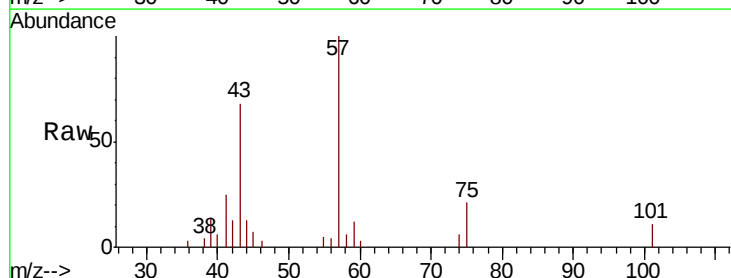
Acq: 13 Oct 2018 04:57

Tgt Ion: 43 Resp: 2170

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

1500

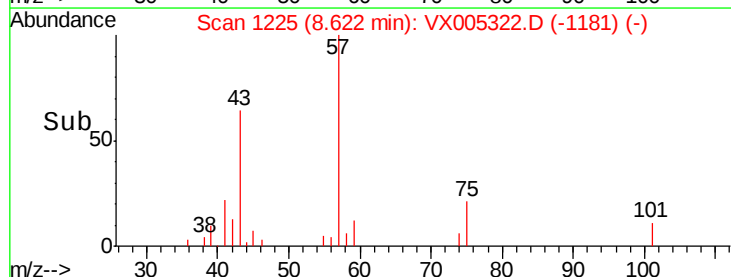
1000

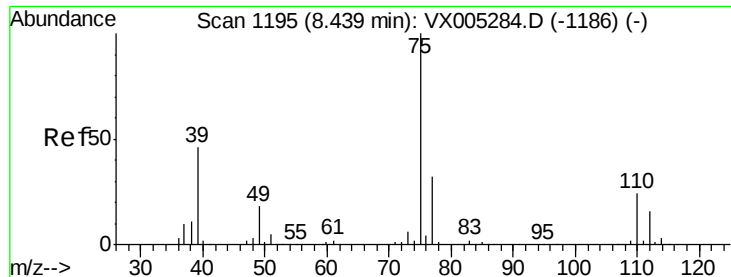
500

0

8.55 8.60 8.65

Time-->



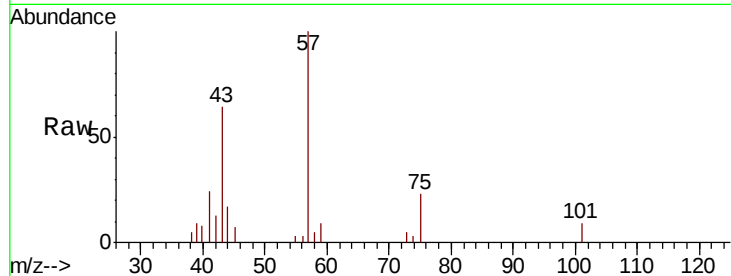


#54

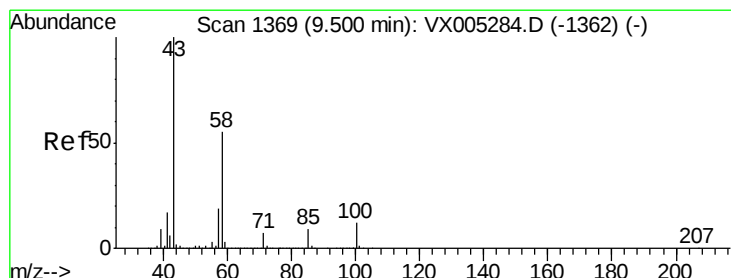
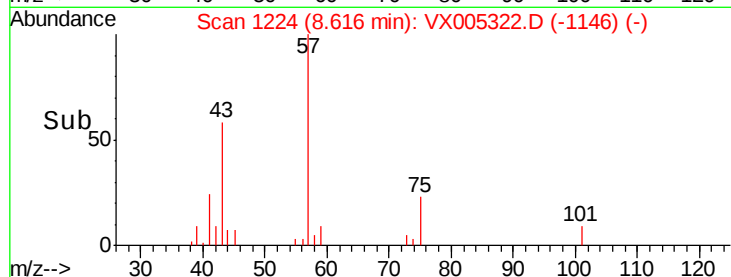
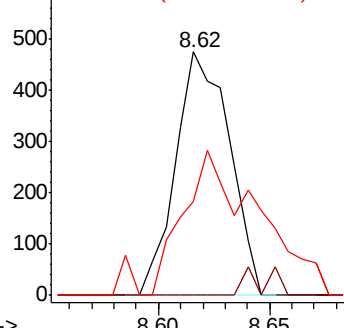
cis-1,3-Dichloropropene  
 Concen: 0.204 ug/l  
 RT: 8.62 min Scan# 1224  
 Delta R.T. 0.18 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 75 Resp: 799  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.2 39.2#  
 39 22.1 36.4 54.6#



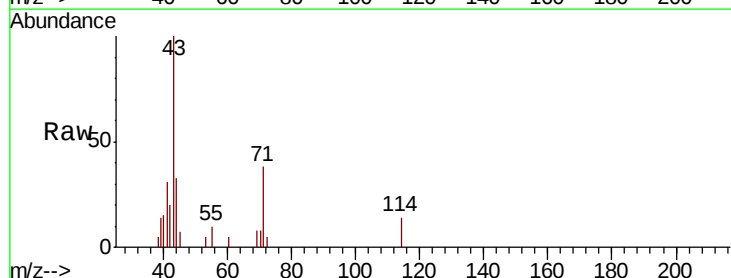
Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 76.90 (76.60 to 77.60): VX0  
 Ion 39.00 (38.70 to 39.70): VX0



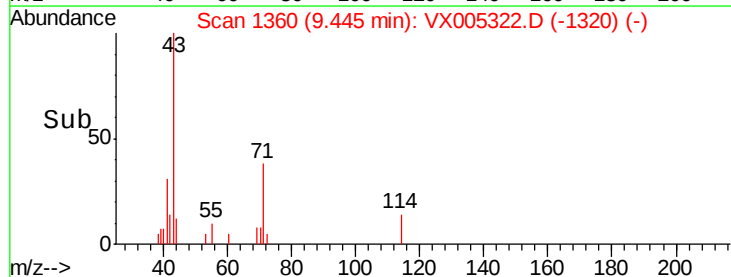
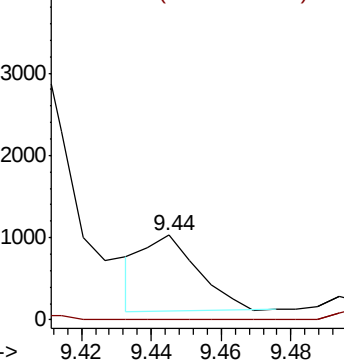
#59

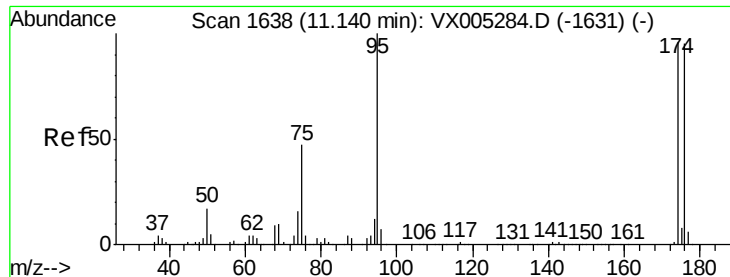
2-Hexanone  
 Concen: 0.283 ug/l  
 RT: 9.44 min Scan# 1360  
 Delta R.T. -0.05 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Tgt Ion: 43 Resp: 1008  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0  
 Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.813 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

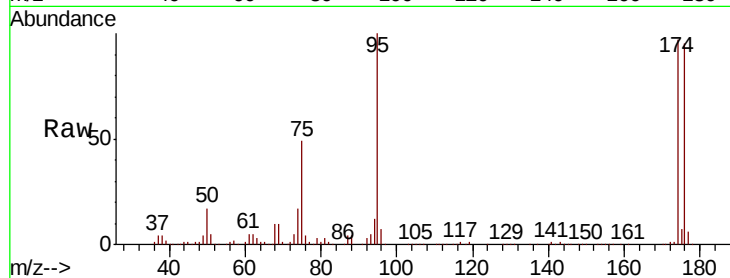
Tot Ion: 95 Resp: 150567

Ion Ratio Lower Upper

95 100

174 95.1 0.0 185.2

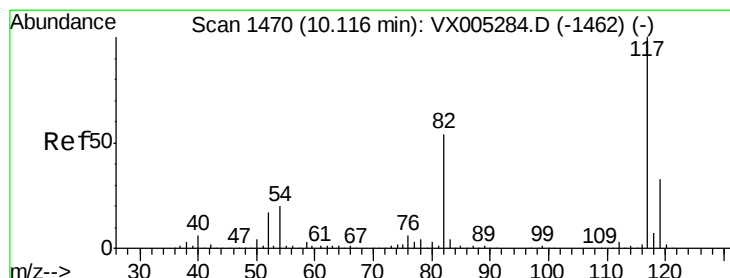
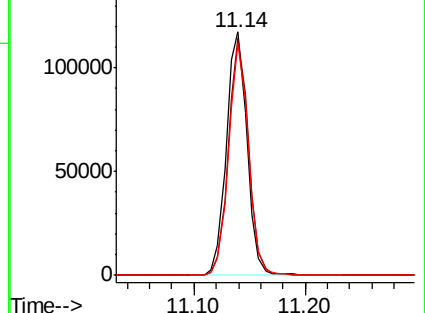
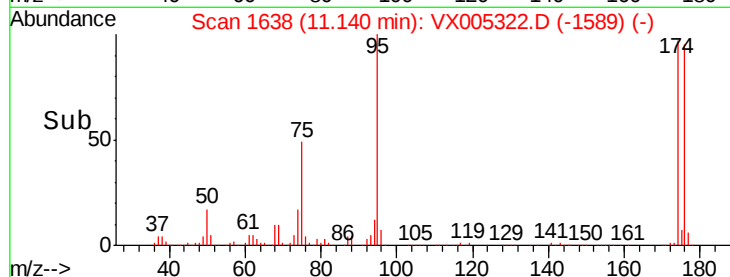
176 91.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005322.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005322.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005322.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

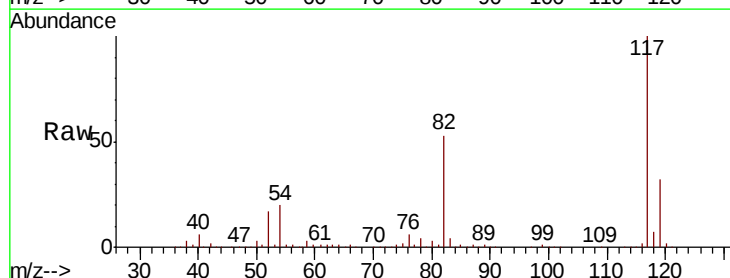
Tgt Ion: 117 Resp: 350567

Ion Ratio Lower Upper

117 100

82 52.8 47.8 71.6

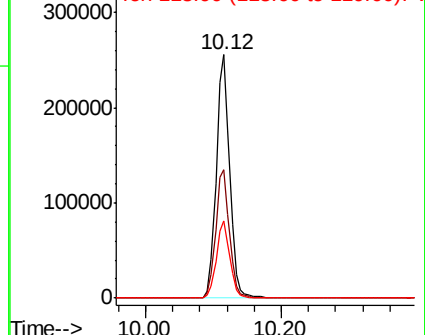
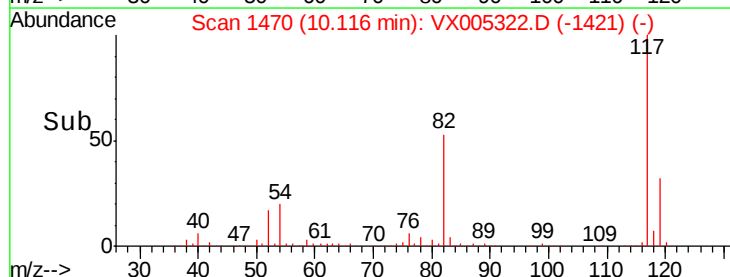
119 31.8 29.3 43.9

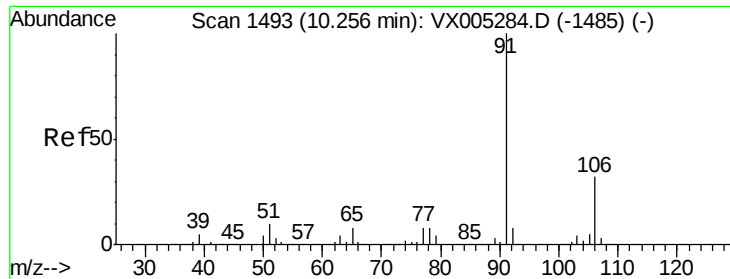


Abundance Ion 116.90 (116.60 to 117.60): VX005322.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005322.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005322.D (-1421) (-)





#67

Ethyl Benzene

Concen: 0.428 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

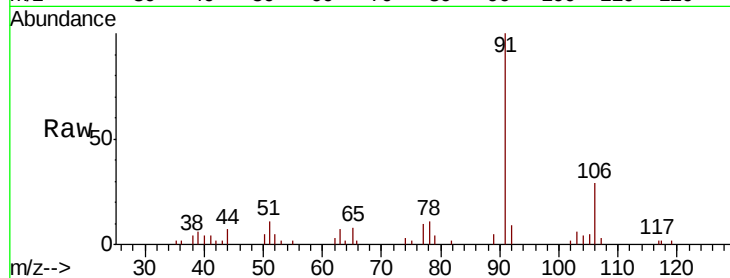
ClientSampleId :

Tot Ion: 91 Resp: 5184

Ion Ratio Lower Upper

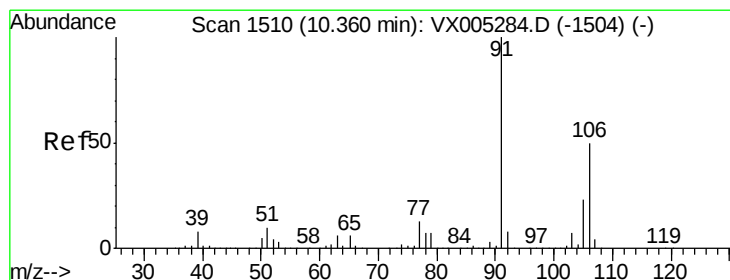
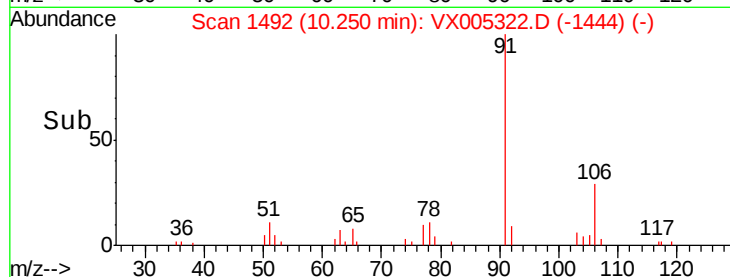
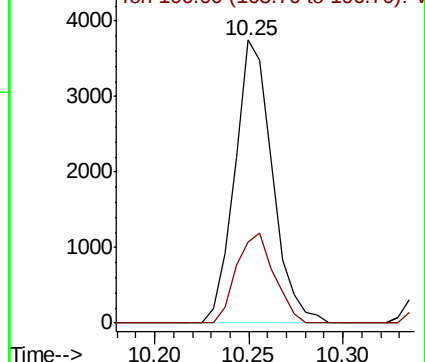
91 100

106 28.7 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VX005284.D (-1485) (-)

Ion 106.00 (105.70 to 106.70): VX005284.D (-1485) (-)



#68

m/p-Xylenes

Concen: 1.234 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX005322.D

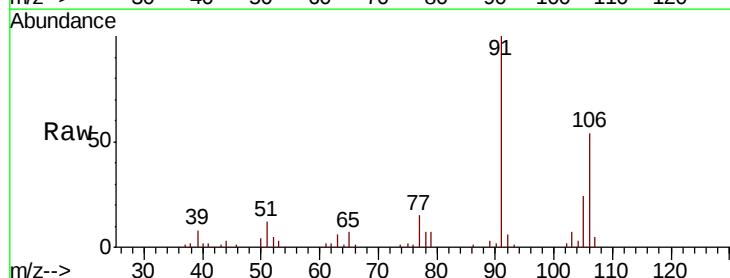
Acq: 13 Oct 2018 04:57

Tgt Ion: 106 Resp: 5806

Ion Ratio Lower Upper

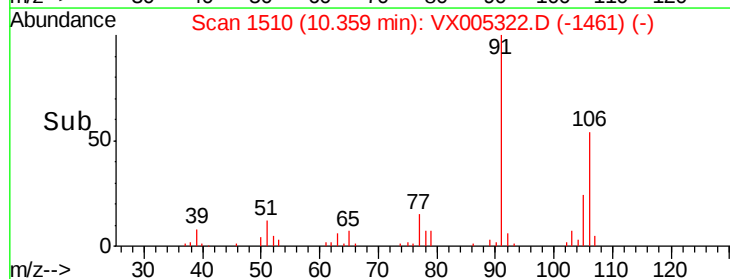
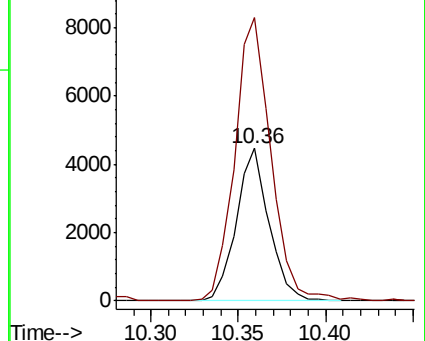
106 100

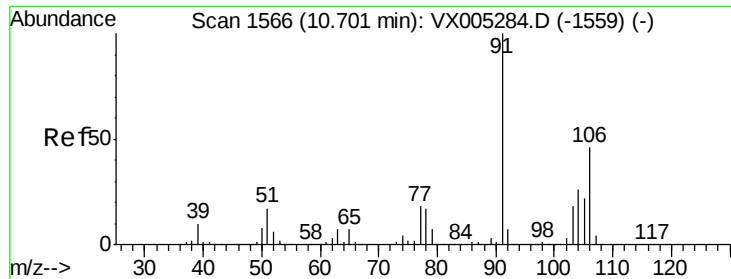
91 205.2 157.1 235.7



Abundance Ion 106.00 (105.70 to 106.70): VX005284.D (-1485) (-)

Ion 91.00 (90.70 to 91.70): VX005284.D (-1485) (-)

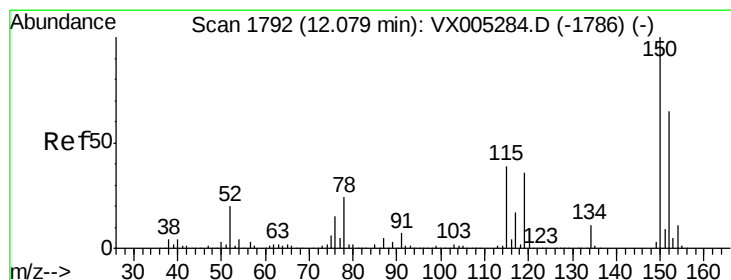
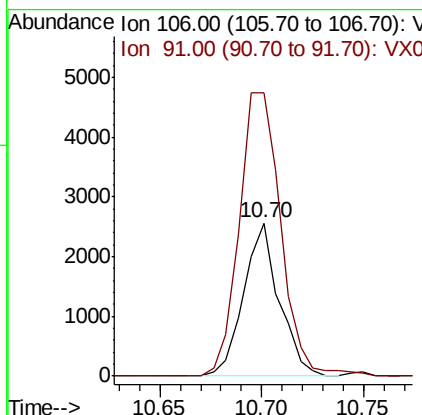
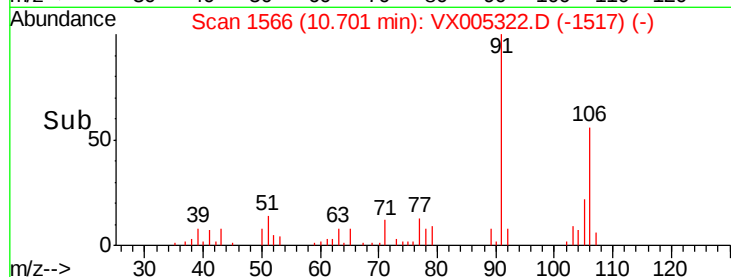
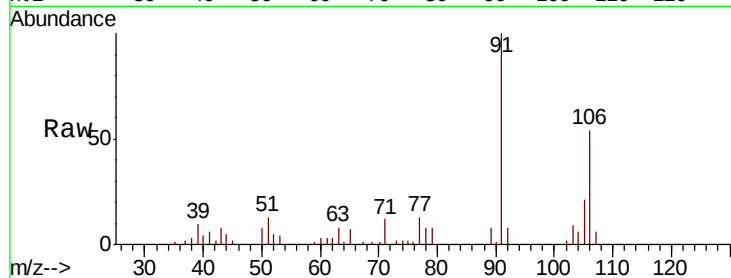




#69  
o-Xylene  
Concen: 0.685 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

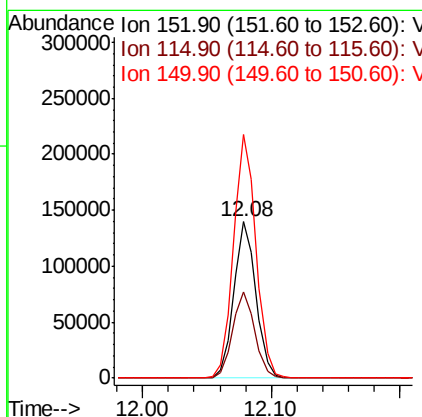
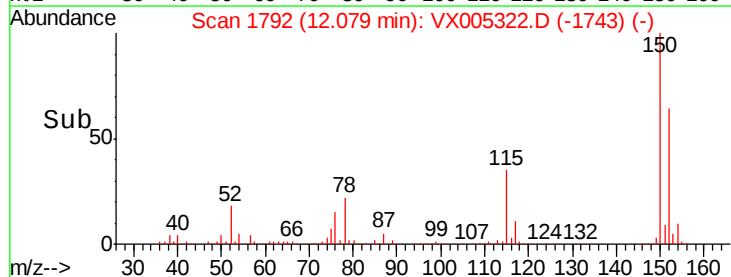
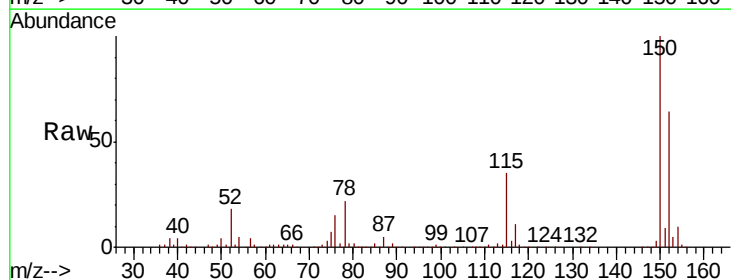
Instrument :  
MSVOA\_X  
ClientSampled :

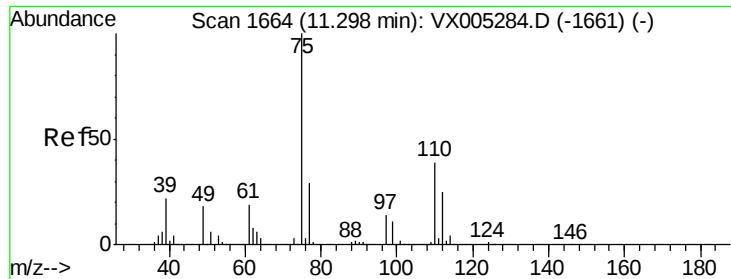
Tot Ion:106 Resp: 3109  
Ion Ratio Lower Upper  
106 100  
91 216.3 105.1 315.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Tgt Ion:152 Resp: 167066  
Ion Ratio Lower Upper  
152 100  
115 55.6 39.0 117.0  
150 158.1 0.0 351.0

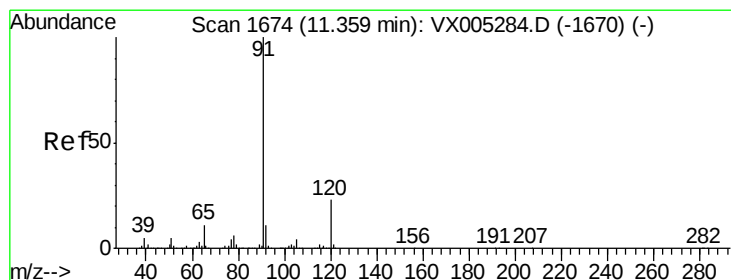
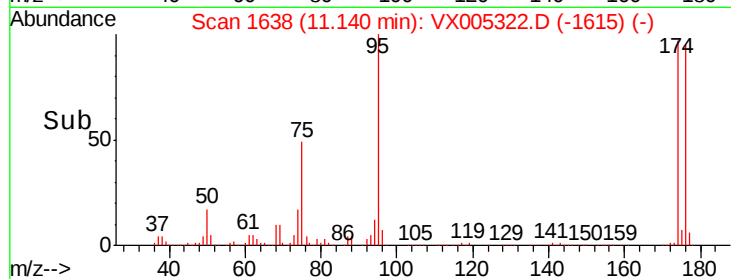
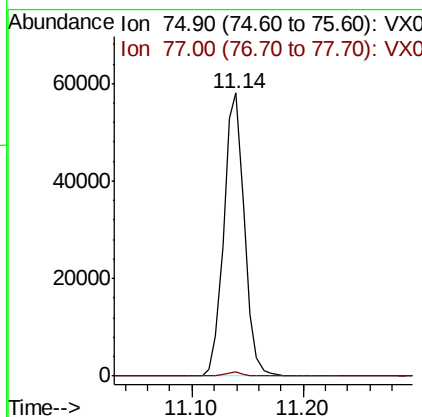
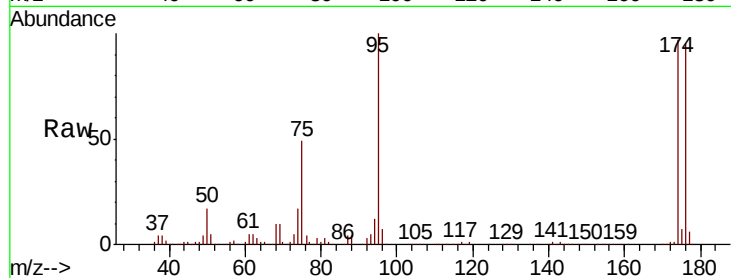




#76  
 1,2,3-Trichloropropane  
 Concen: 22.835 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

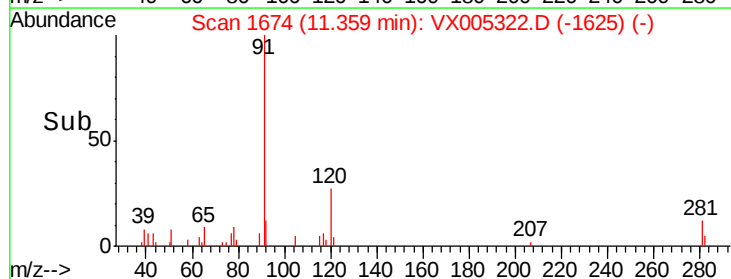
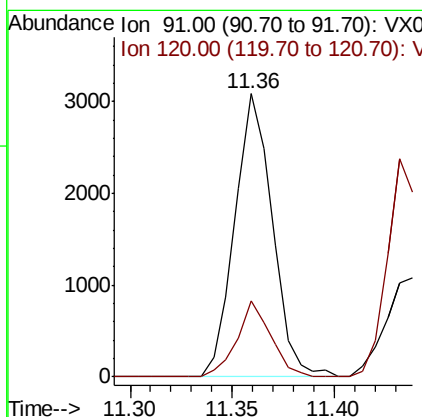
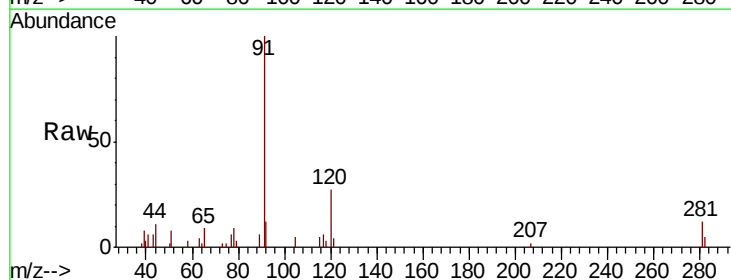
Instrument :  
 MSVOA\_X  
 ClientSampleId :

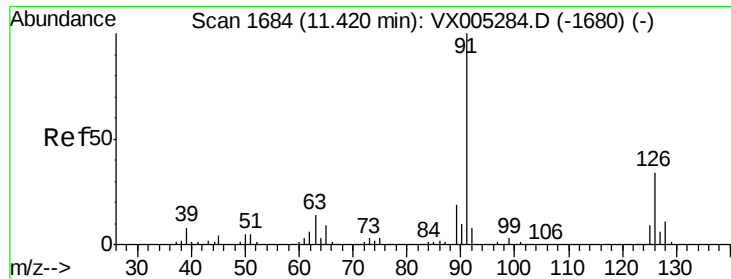
Tot Ion: 75 Resp: 73998  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 20.2 60.6#



#78  
 n-propylbenzene  
 Concen: 0.346 ug/l  
 RT: 11.36 min Scan# 1674  
 Delta R.T. -0.00 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Tgt Ion: 91 Resp: 3958  
 Ion Ratio Lower Upper  
 91 100  
 120 24.2 11.9 35.9

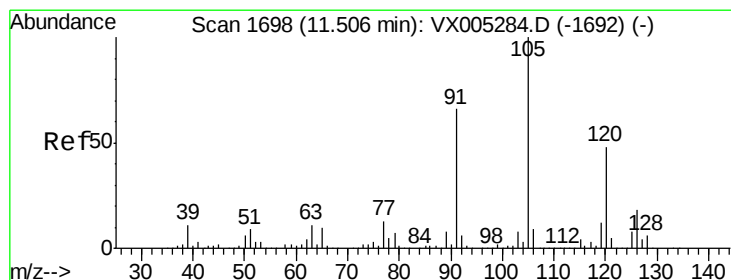
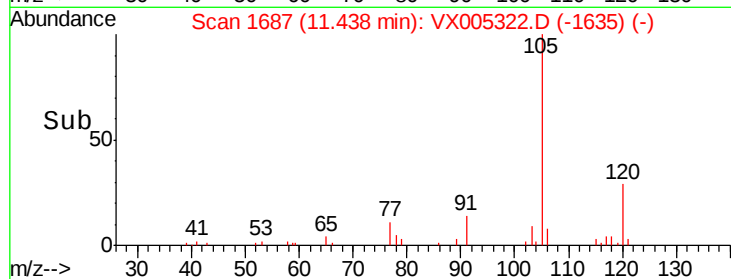
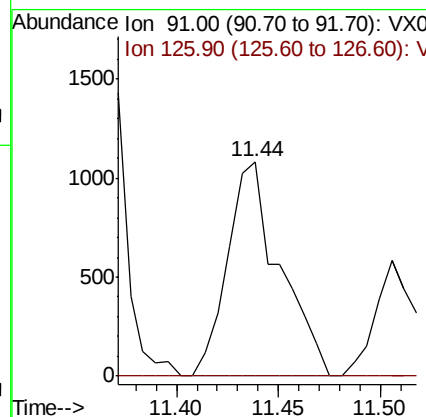
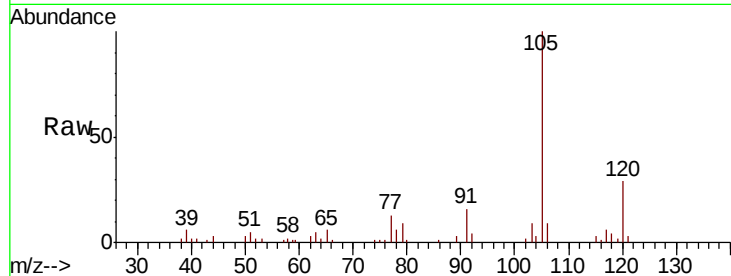




#79  
 2-Chlorotoluene  
 Concen: 0.274 ug/l  
 RT: 11.44 min Scan# 1687  
 Delta R.T. 0.02 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

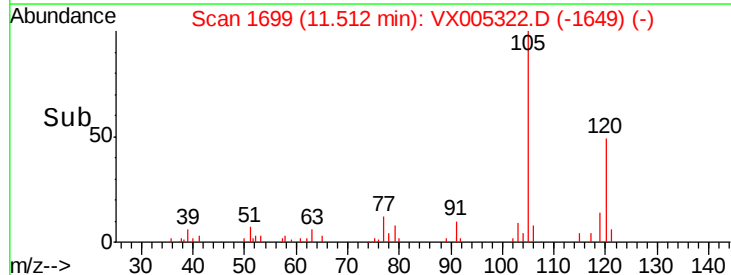
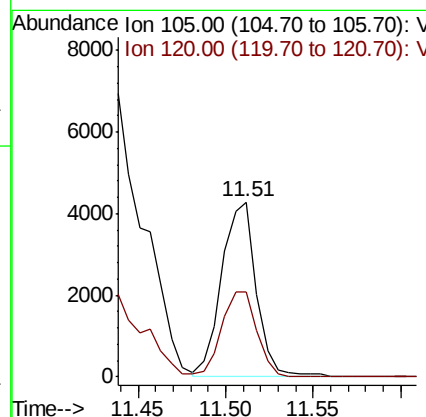
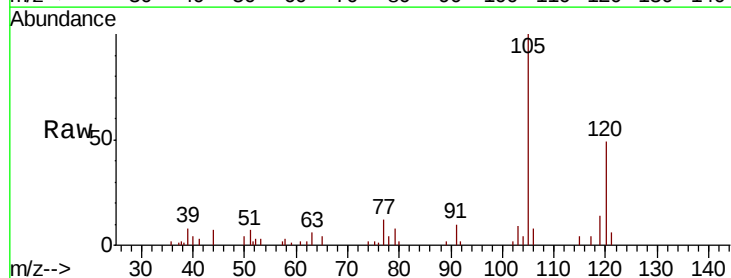
Instrument :  
 MSVOA\_X  
 ClientSampleId :

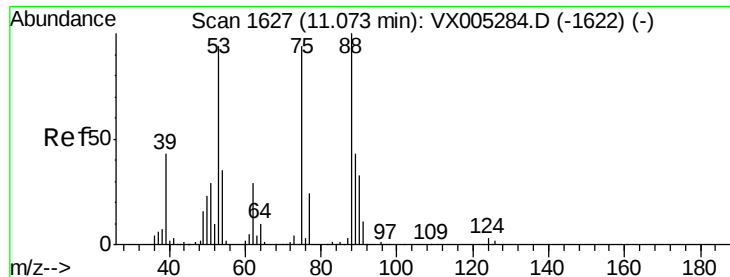
Tot Ion: 91 Resp: 1915  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 17.9 53.7#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.697 ug/l  
 RT: 11.51 min Scan# 1699  
 Delta R.T. 0.01 min  
 Lab File: VX005322.D  
 Acq: 13 Oct 2018 04:57

Tgt Ion: 105 Resp: 5929  
 Ion Ratio Lower Upper  
 105 100  
 120 49.3 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 69.383 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005322.D

Acq: 13 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

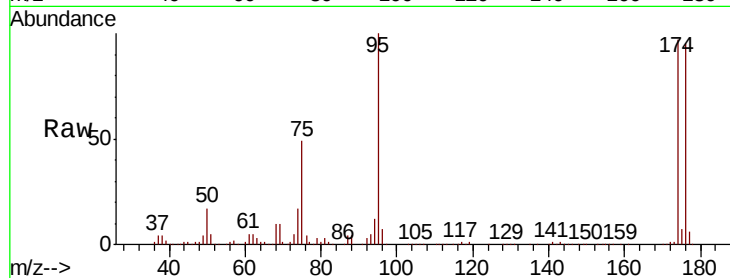
Tot Ion: 75 Resp: 73998

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

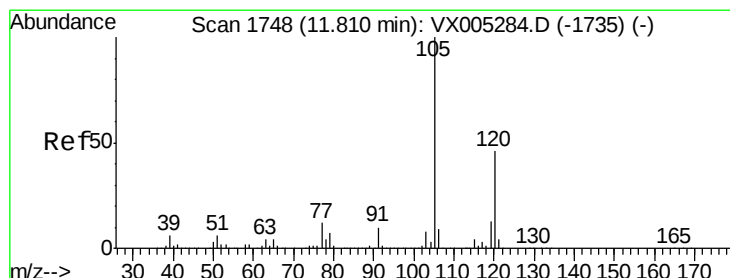
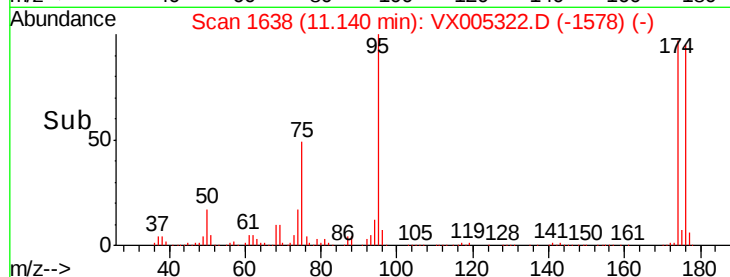
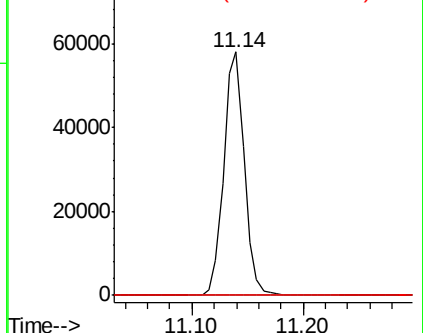
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 2.048 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VX005322.D

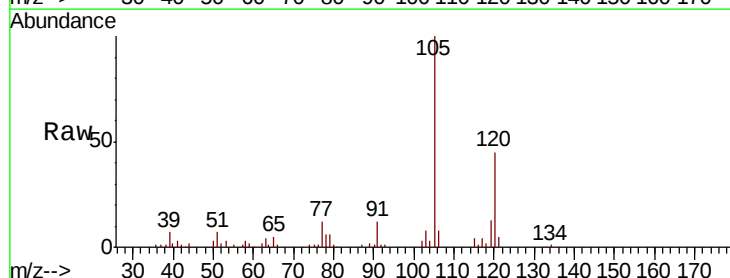
Acq: 13 Oct 2018 04:57

Tgt Ion:105 Resp: 17927

Ion Ratio Lower Upper

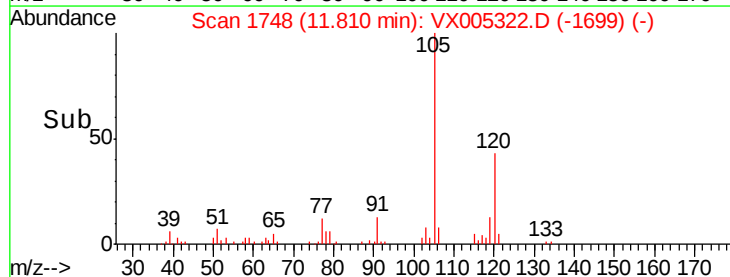
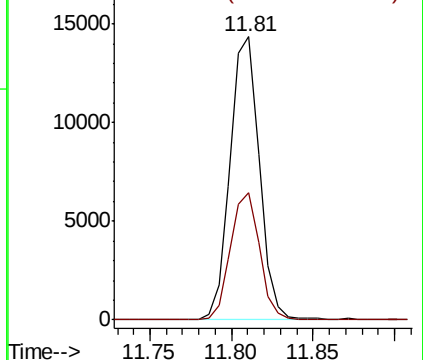
105 100

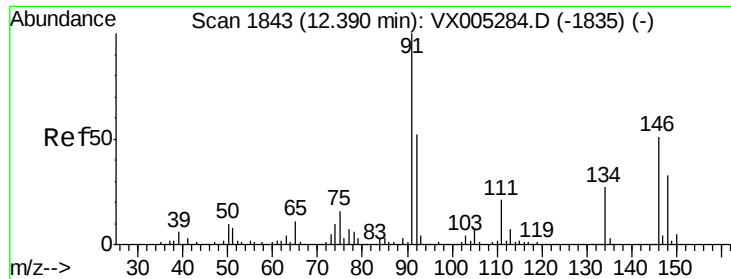
120 44.4 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

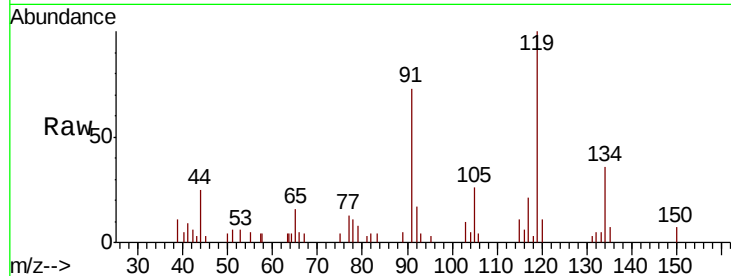




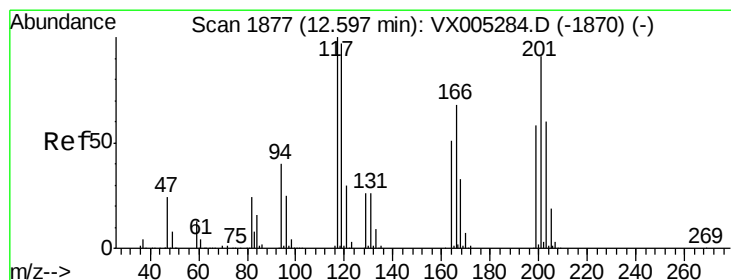
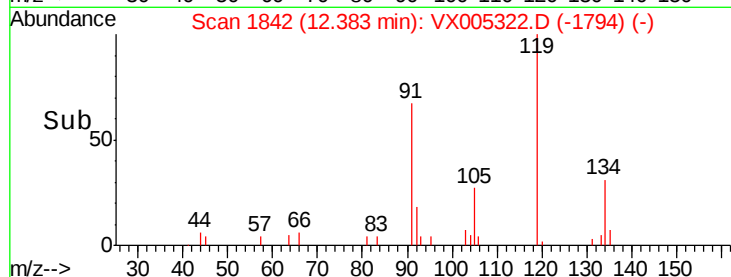
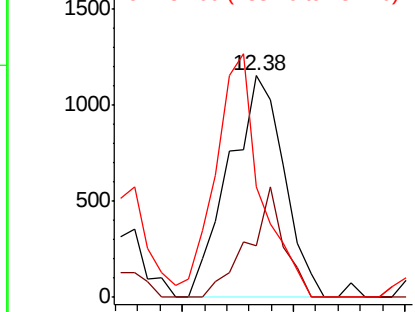
#89  
n-Butylbenzene  
Concen: 0.236 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. -0.01 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 91 Resp: 1972  
Ion Ratio Lower Upper  
91 100  
92 32.6 27.3 81.9  
134 90.4 13.6 40.7#

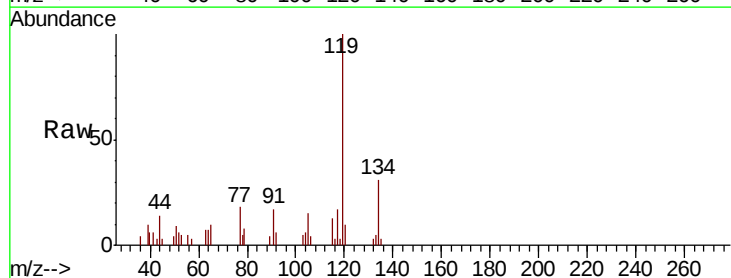


Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 92.00 (91.70 to 92.70): VX0  
Ion 134.00 (133.70 to 134.70): V

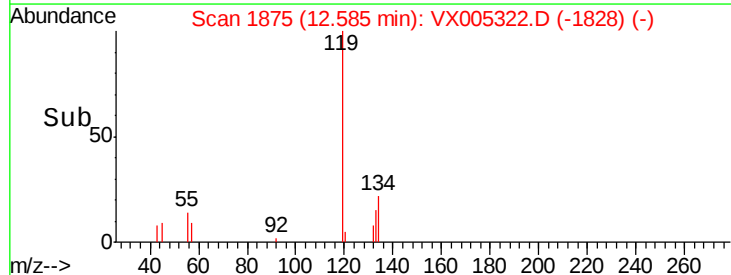
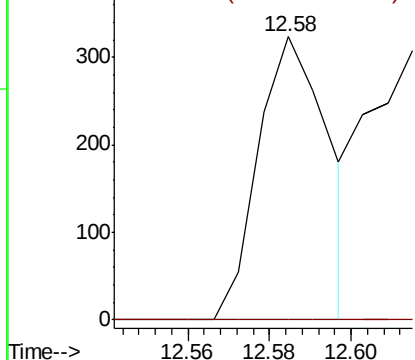


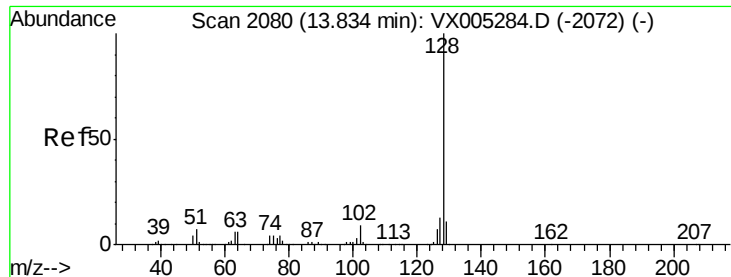
#90  
Hexachloroethane  
Concen: 0.244 ug/l  
RT: 12.58 min Scan# 1875  
Delta R.T. -0.01 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Tgt Ion: 117 Resp: 387  
Ion Ratio Lower Upper  
117 100  
201 0.0 46.9 140.6#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 200.70 (200.40 to 201.40): V





#95  
Naphthalene  
Concen: 25.133 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX005322.D  
Acq: 13 Oct 2018 04:57

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.4  | 10.2  | 15.2  |
| 129     | 11.0  | 8.6   | 12.8  |

