

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082318\  
 Data File : VX004225.D  
 Acq On : 23 Aug 2018 14:33  
 Operator : JC/MD  
 Sample : J4579-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0543

Quant Time: Aug 24 09:39:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 322262   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 501396   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 424912   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 279810   | 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   | 203948   | 48.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.12%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 174721   | 46.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 93.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 714089   | 50.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.44% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 259142   | 49.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.66%  |          |

| Target Compounds          | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|---------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane          | 1.32  | 50   | 2878     | 0.98      | ug/l  | # 84   |
| 5) Bromomethane           | 1.65  | 94   | 1369     | Below Cal |       | # 80   |
| 6) Chloroethane           | 1.69  | 64   | 188      | 1.03      | ug/l  | # 56   |
| 10) Methyl Iodide         | 2.52  | 142  | 1637     | 4.63      | ug/l  | # 94   |
| 11) Tert butyl alcohol    | 3.07  | 59   | 700      | 0.78      | ug/l  | # 72   |
| 13) Acrolein              | 2.39  | 56   | 52574    | 243.56    | ug/l  | # 75   |
| 14) Allyl chloride        | 2.84  | 41   | 149873   | 23.89     | ug/l  | # 64   |
| 15) Acrylonitrile         | 3.17  | 53   | 40992    | 18.49     | ug/l  | # 40   |
| 17) Carbon Disulfide      | 2.57  | 76   | 2747     | 1.08      | ug/l  | # 94   |
| 18) Methyl Acetate        | 2.84  | 43   | 398691   | 63.96     | ug/l  | # 51   |
| 20) Methylene Chloride    | 2.88  | 84   | 4196     | 1.04      | ug/l  | # 1    |
| 25) 2-Butanone            | 4.71  | 43   | 7251     | Below Cal |       | # 98   |
| 26) 2,2-Dichloropropane   | 4.39  | 77   | 25882    | 4.83      | ug/l  | # 52   |
| 29) Tetrahydrofuran       | 5.24  | 42   | 3273     | 1.81      | ug/l  | # 1    |
| 30) Chloroform            | 5.26  | 83   | 2839     | 0.41      | ug/l  | # 1    |
| 31) Cyclohexane           | 5.57  | 56   | 2884524  | 489.83    | ug/l  | # 99   |
| 38) Carbon Tetrachloride  | 5.66  | 117  | 28853    | 5.44      | ug/l  | # 14   |
| 39) Methylcyclohexane     | 7.46  | 83   | 2463284  | 382.75    | ug/l  | # 99   |
| 41) Methacrylonitrile     | 5.23  | 41   | 17374    | 5.41      | ug/l  | # 51   |
| 42) 1,2-Dichloroethane    | 6.25  | 62   | 1202     | 0.21      | ug/l  | # 1    |
| 43) Isopropyl Acetate     | 6.45  | 43   | 23496    | 2.76      | ug/l  | # 62   |
| 45) 1,2-Dichloropropane   | 7.46  | 63   | 20659    | 4.90      | ug/l  | # 1    |
| 47) Bromodichloromethane  | 7.85  | 83   | 2107     | 0.40      | ug/l  | # 1    |
| 48) Methyl methacrylate   | 7.73  | 41   | 69958    | 15.35     | ug/l  | # 46   |
| 51) 4-Methyl-2-Pentanone  | 8.67  | 43   | 15390    | 2.49      | ug/l  | # 41   |
| 52) Toluene               | 8.79  | 92   | 445652   | 42.27     | ug/l  | # 100  |
| 55) 1,1,2-Trichloroethane | 9.16  | 97   | 99675    | 23.42     | ug/l  | # 20   |
| 56) Ethyl methacrylate    | 9.16  | 69   | 20825    | 3.59      | ug/l  | # 1    |
| 67) Ethyl Benzene         | 10.26 | 91   | 3702471  | 213.78    | ug/l  | # 96   |
| 68) m/p-Xylenes           | 10.36 | 106  | 5244023  | 774.36    | ug/l  | # 92   |
| 69) o-Xylene              | 10.70 | 106  | 1578830  | 246.47    | ug/l  | # 97   |
| 70) Styrene               | 10.70 | 104  | 76888    | 7.41      | ug/l  | # 1    |
| 73) Isopropylbenzene      | 11.02 | 105  | 877769   | 47.76     | ug/l  | # 100  |
| 74) N-amyl acetate        | 10.91 | 43   | 1871     | 0.26      | ug/l  | # 1    |

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Quant Time: Aug 24 09:39:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

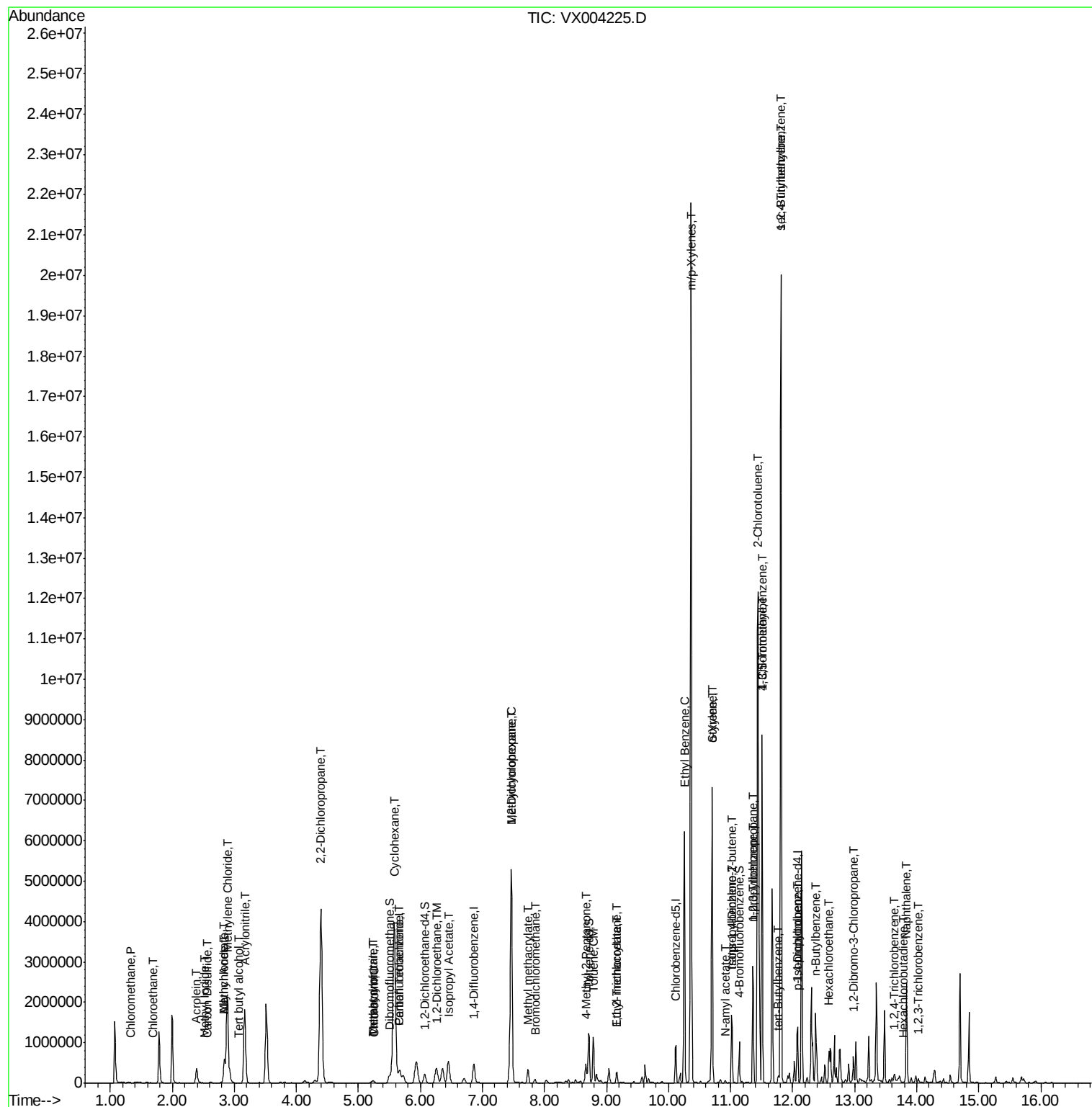
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 76) 1,2,3-Trichloropropane     | 11.36 | 75   | 10104    | 1.78   | ug/l # | 1        |
| 78) n-propylbenzene            | 11.36 | 91   | 1742458  | 82.44  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.44 | 91   | 1010585  | 77.68  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 3695502  | 242.82 | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.02 | 75   | 9582     | 5.46   | ug/l # | 68       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 377481   | 24.66  | ug/l # | 44       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 77426    | 5.06   | ug/l   | 87       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 8354420  | 534.78 | ug/l   | 93       |
| 85) sec-Butylbenzene           | 11.81 | 105  | 8354420  | 459.56 | ug/l # | 55       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 131995   | 8.10   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 270930   | 20.45  | ug/l # | 26       |
| 90) Hexachloroethane           | 12.59 | 117  | 32651    | 14.34  | ug/l # | 3        |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 2320     | 2.05   | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 1775     | 0.28   | ug/l # | 1        |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 1123     | 0.24   | ug/l   | 98       |
| 95) Naphthalene                | 13.83 | 128  | 1538508  | 84.28  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 1588     | 0.23   | ug/l # | 1        |
| -----                          |       |      |          |        |        |          |

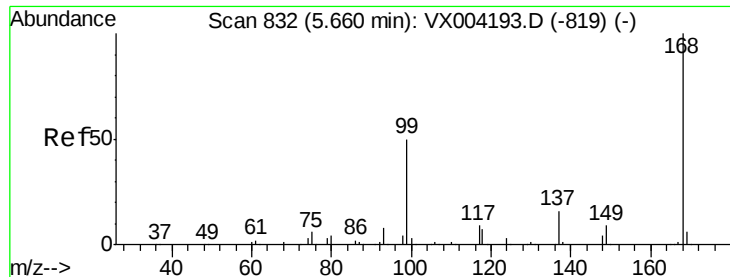
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082318\  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

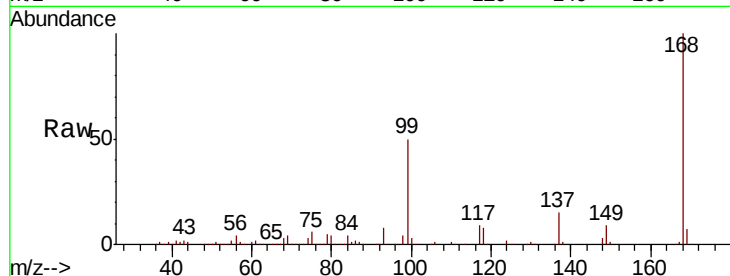
FL-0543

Tot Ion:168 Resp: 322262

Ion Ratio Lower Upper

168 100

99 49.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

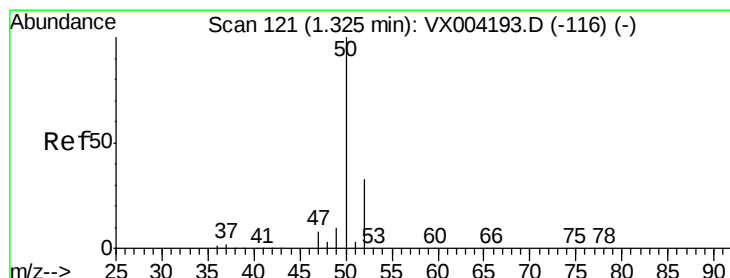
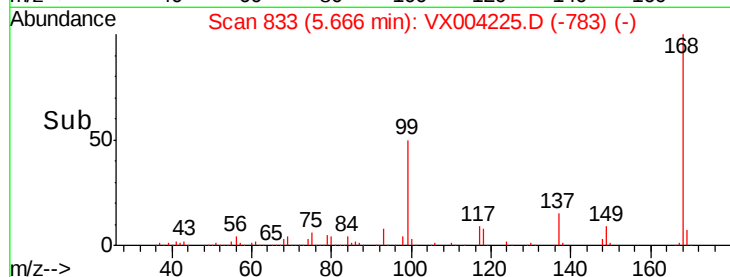
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.98 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004225.D

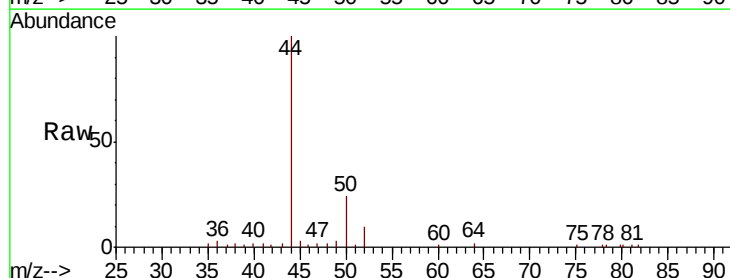
Acq: 23 Aug 2018 14:33

Tgt Ion: 50 Resp: 2878

Ion Ratio Lower Upper

50 100

52 41.6 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

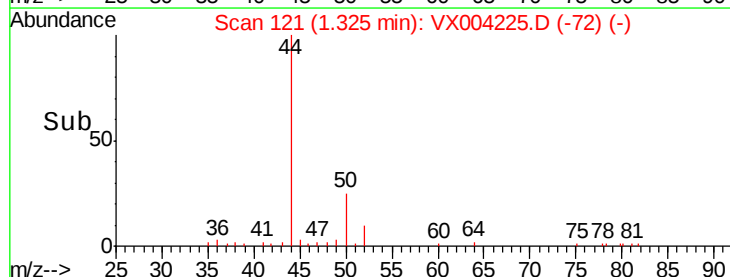
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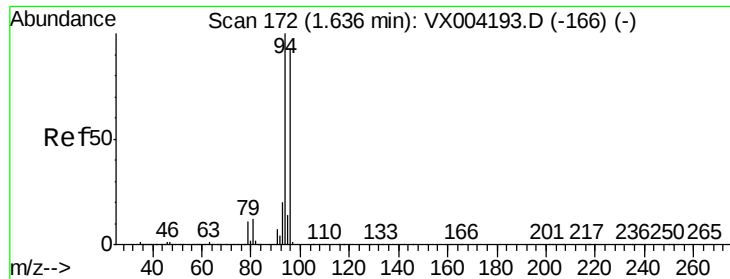
1000

500

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

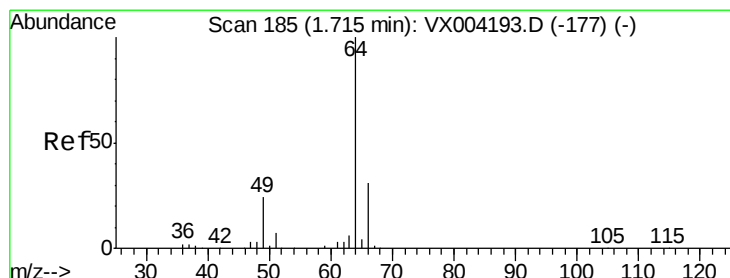
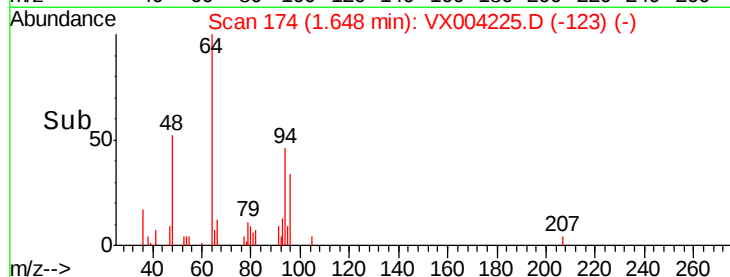
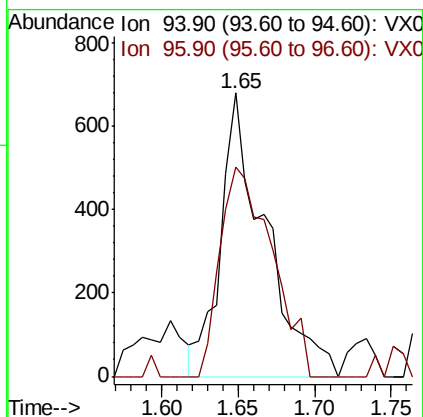
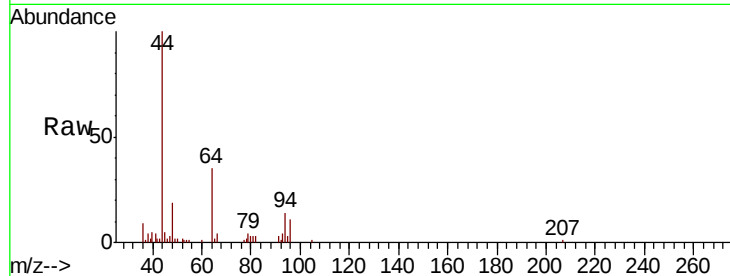
FL-0543

Tot Ion: 94 Resp: 1369

Ion Ratio Lower Upper

94 100

96 73.9 74.5 111.7#



#6

Chloroethane

Concen: 1.03 ug/l

RT: 1.69 min Scan# 181

Delta R.T. -0.02 min

Lab File: VX004225.D

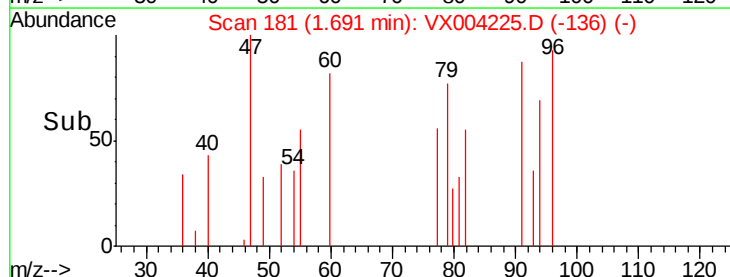
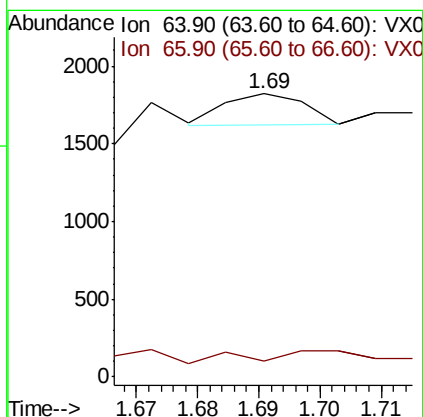
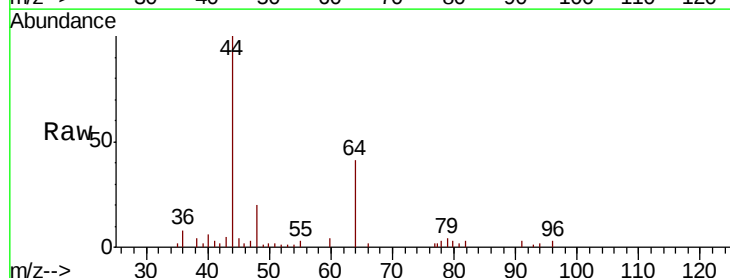
Acq: 23 Aug 2018 14:33

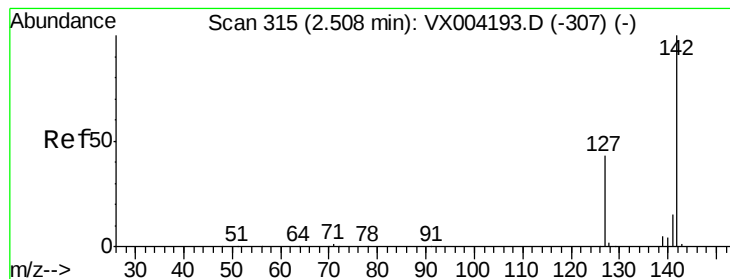
Tgt Ion: 64 Resp: 188

Ion Ratio Lower Upper

64 100

66 6.6 24.6 36.8#

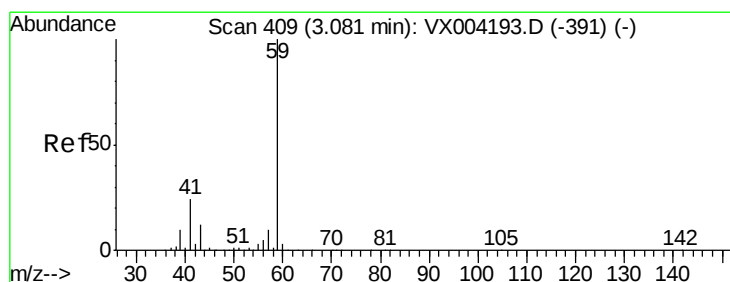
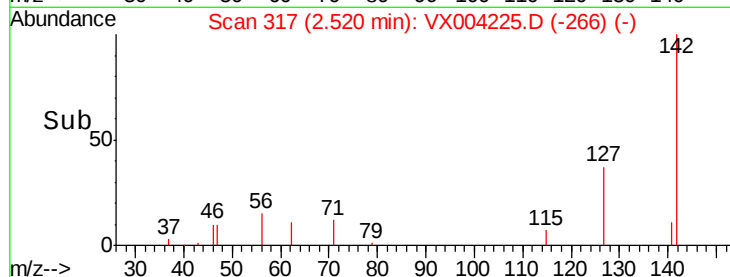
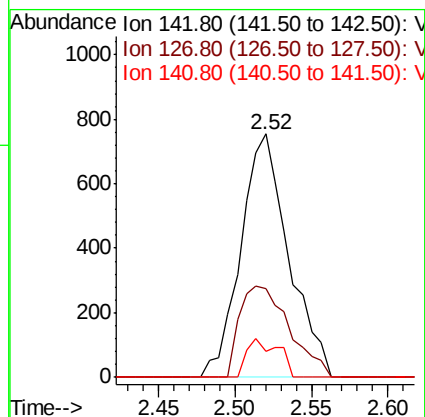
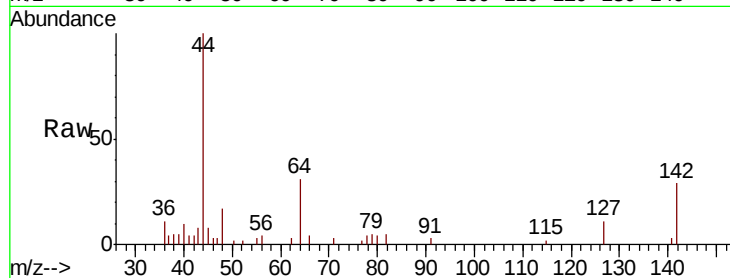




#10  
Methvl Iodide  
Concen: 4.63 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

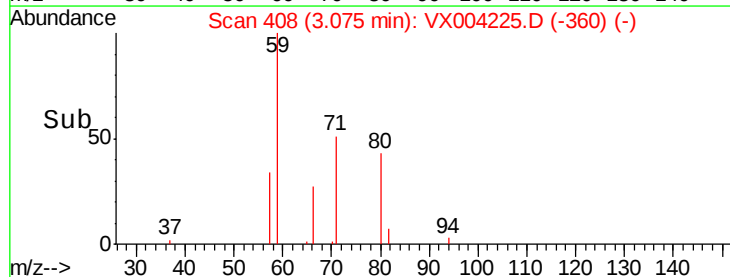
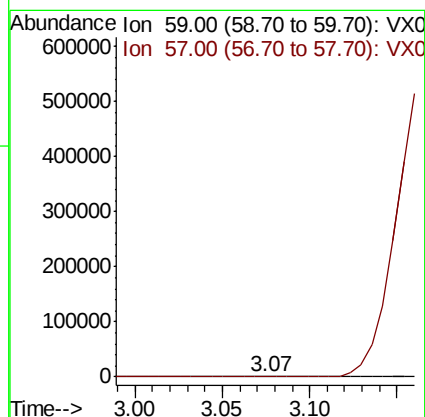
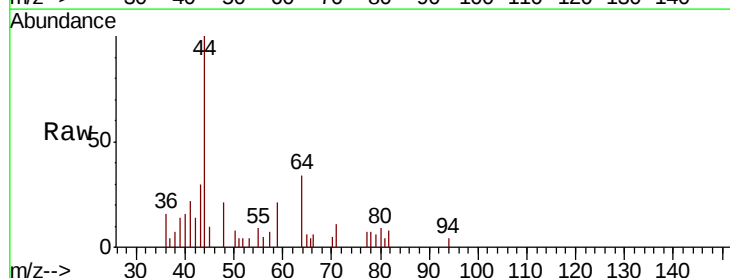
Instrument :  
MSVOA\_X  
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FL-0543

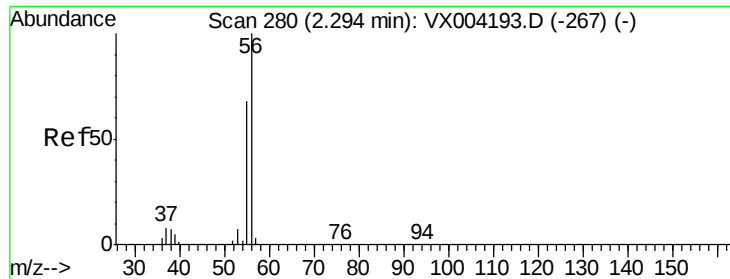
Tot Ion:142 Resp: 1637  
Ion Ratio Lower Upper  
142 100  
127 39.0 33.8 50.6  
141 10.5 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 0.78 ug/l  
RT: 3.07 min Scan# 408  
Delta R.T. -0.01 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion: 59 Resp: 700  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 243.56 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.10 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

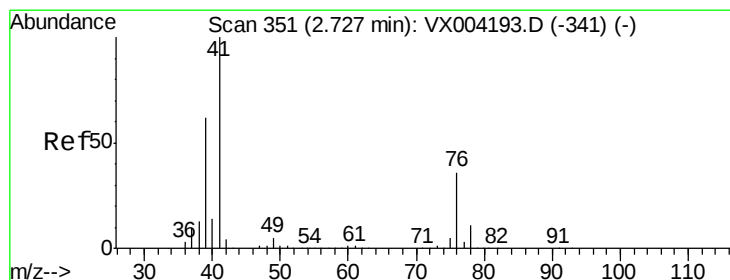
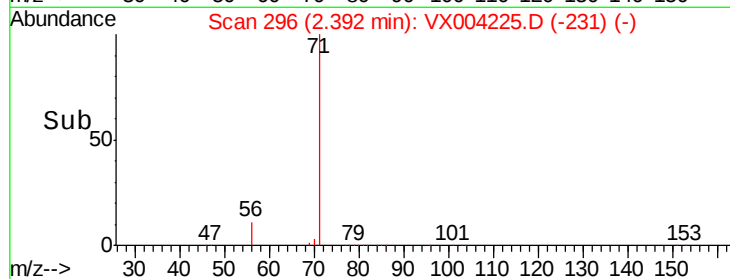
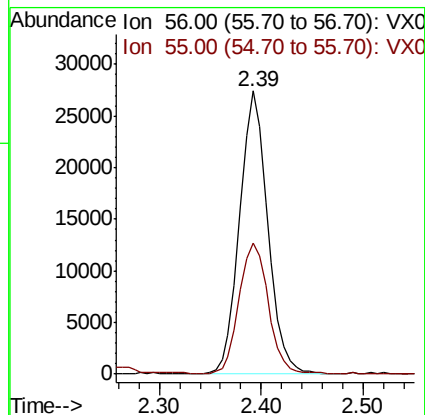
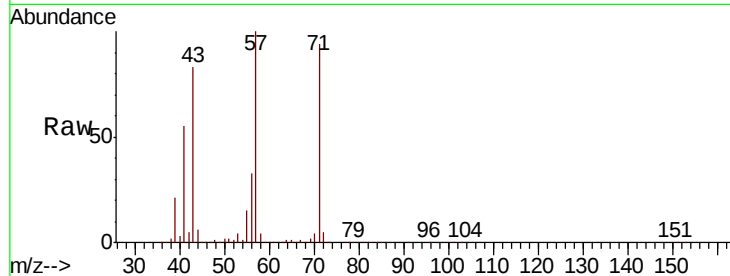
FL-0543

Tot Ion: 56 Resp: 52574

Ion Ratio Lower Upper

56 100

55 47.8 54.7 82.1#



#14

Allyl chloride

Concen: 23.89 ug/l

RT: 2.84 min Scan# 369

Delta R.T. 0.11 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

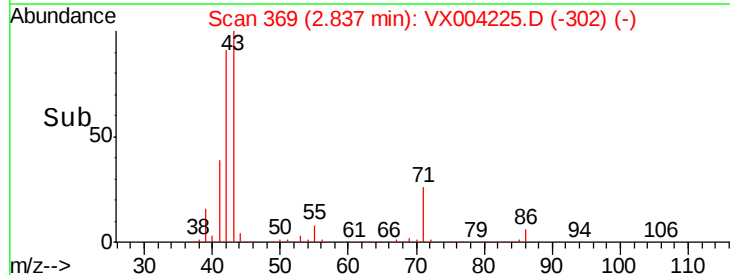
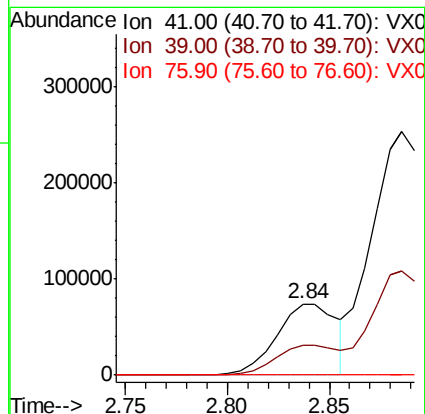
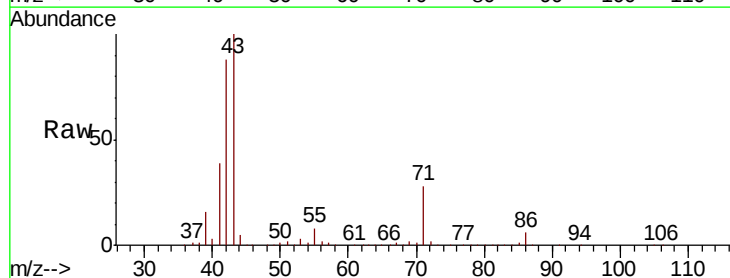
Tgt Ion: 41 Resp: 149873

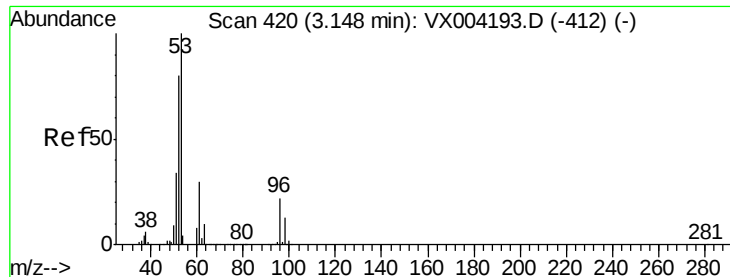
Ion Ratio Lower Upper

41 100

39 43.2 48.9 73.3#

76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 18.49 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.02 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

FL-0543

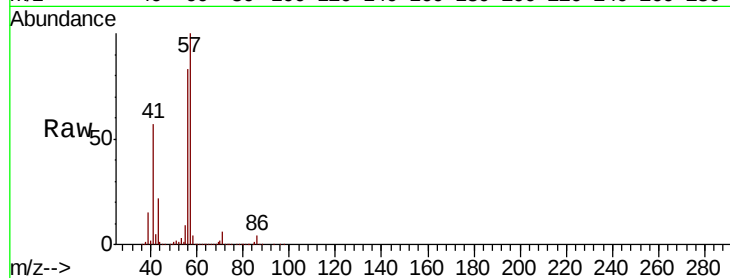
Tot Ion: 53 Resp: 40992

Ion Ratio Lower Upper

53 100

52 19.8 65.2 97.8#

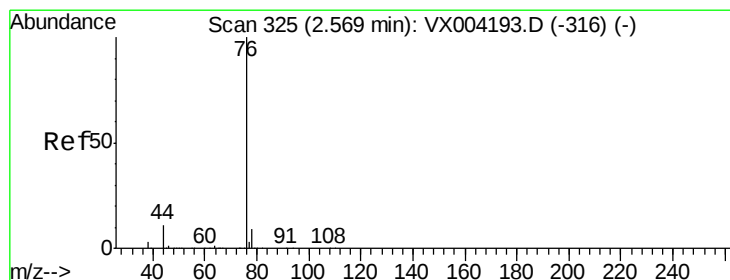
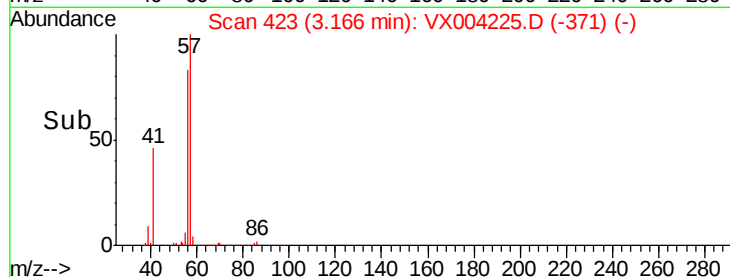
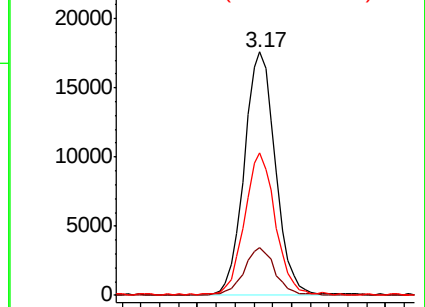
51 56.8 28.2 42.2#



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



#17

Carbon Disulfide

Concen: 1.08 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004225.D

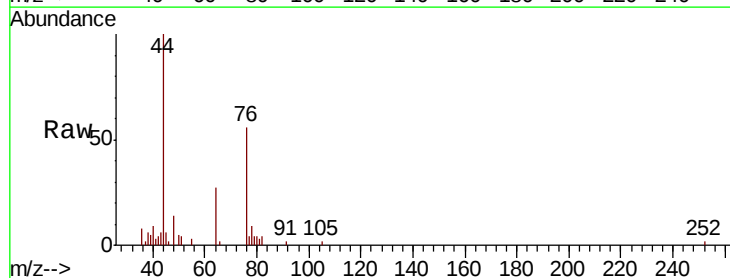
Acq: 23 Aug 2018 14:33

Tgt Ion: 76 Resp: 2747

Ion Ratio Lower Upper

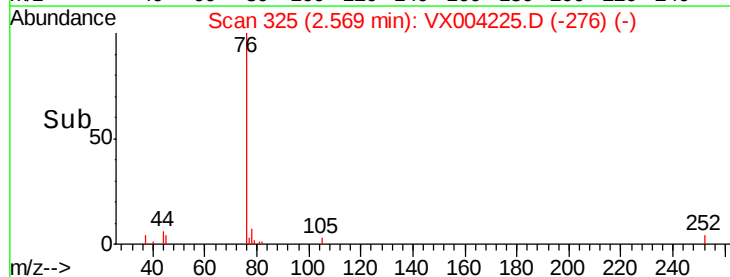
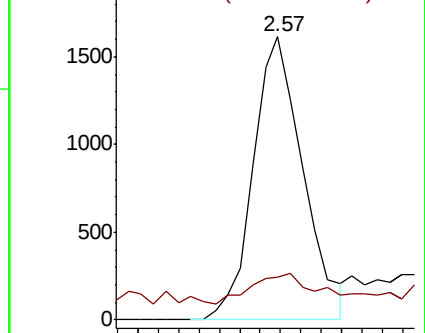
76 100

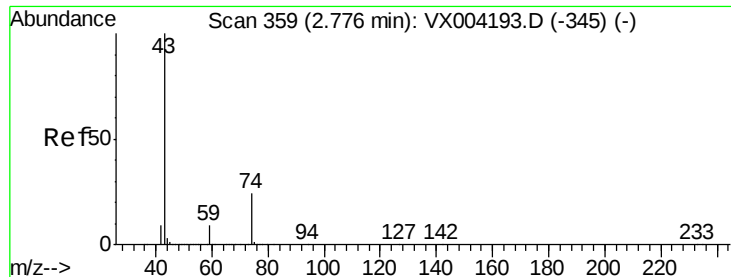
78 6.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

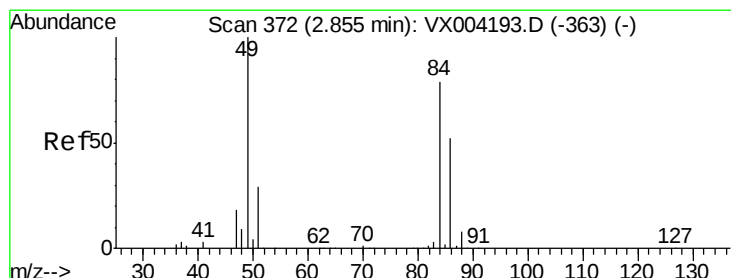
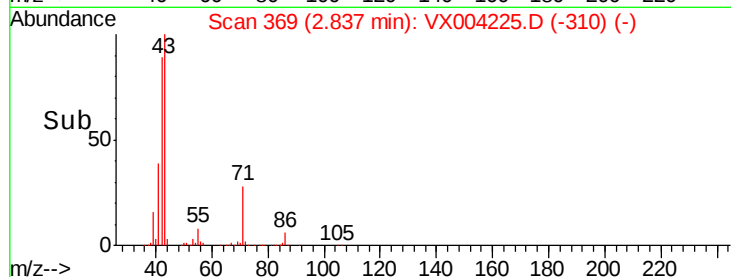
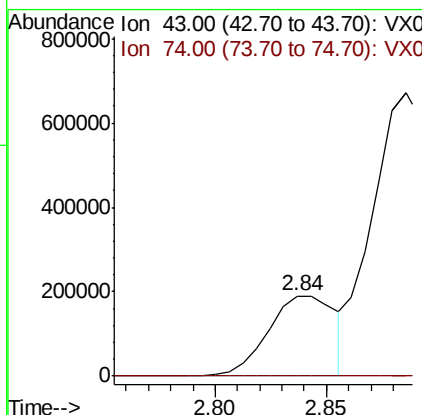
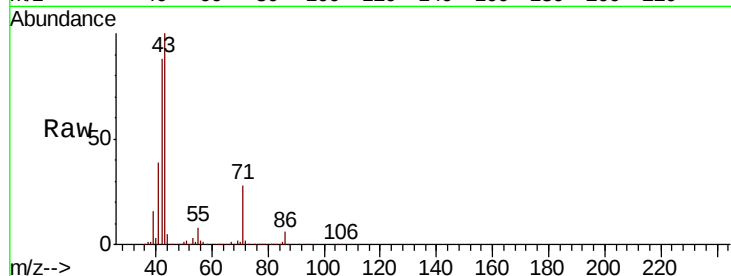




#18  
Methyl Acetate  
Concen: 63.96 ug/l  
RT: 2.84 min Scan# 369  
Delta R.T. 0.06 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

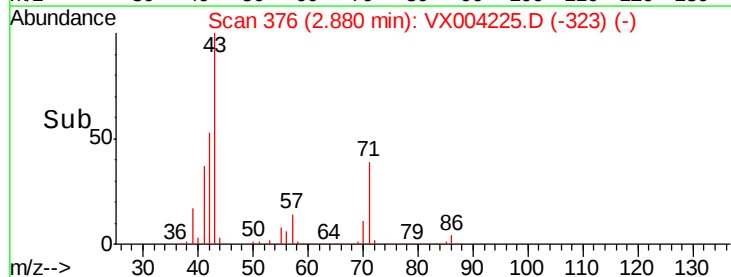
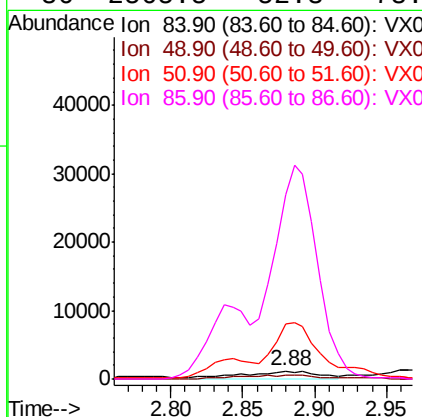
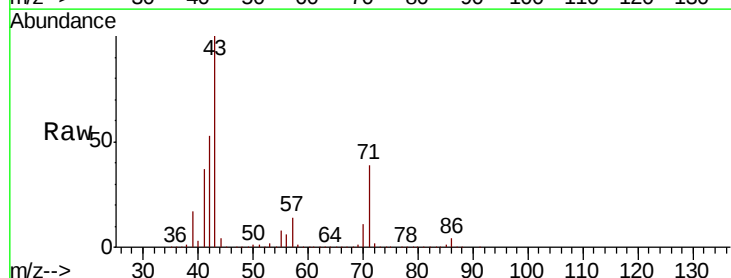
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0543

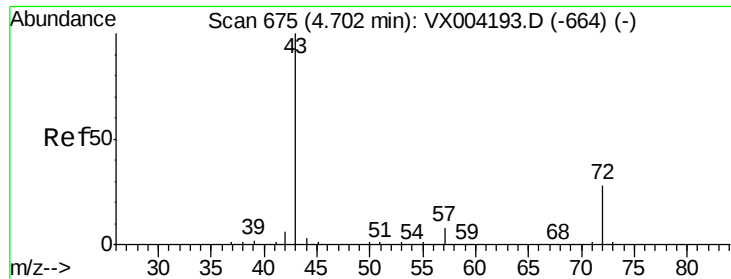
Tot Ion: 43 Resp: 398691  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.2#



#20  
Methylene Chloride  
Concen: 1.04 ug/l  
RT: 2.88 min Scan# 376  
Delta R.T. 0.02 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion: 84 Resp: 4196  
Ion Ratio Lower Upper  
84 100  
49 45.2 101.2 151.8#  
51 751.1 29.5 44.3#  
86 2565.5 52.3 78.5#





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

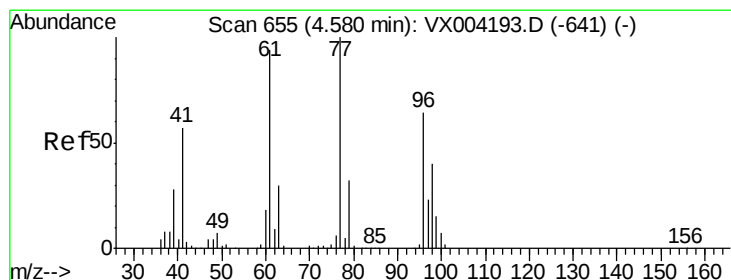
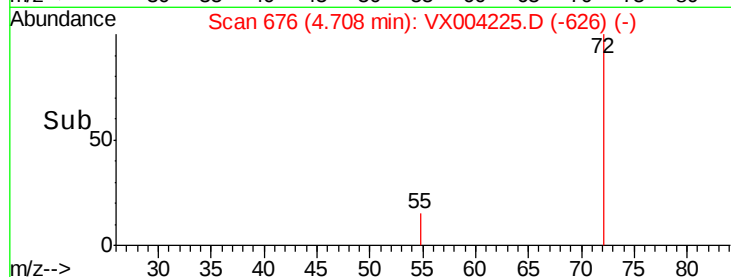
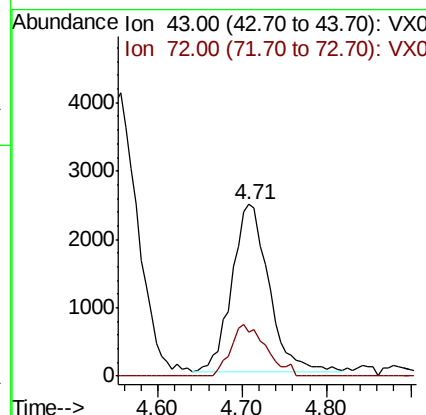
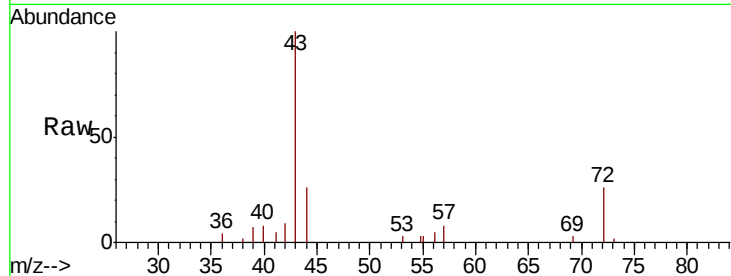
FL-0543

Tot Ion: 43 Resp: 7251

Ion Ratio Lower Upper

43 100

72 26.4 22.0 33.0



#26

2,2-Dichloropropane

Concen: 4.83 ug/l

RT: 4.39 min Scan# 624

Delta R.T. -0.19 min

Lab File: VX004225.D

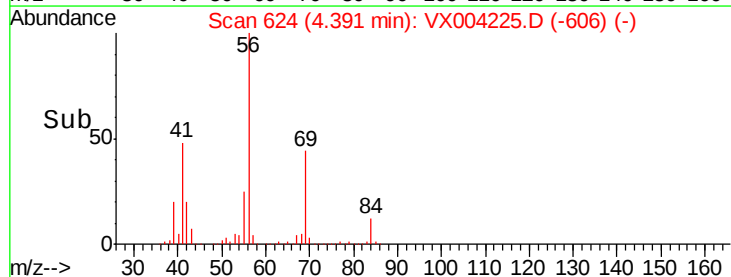
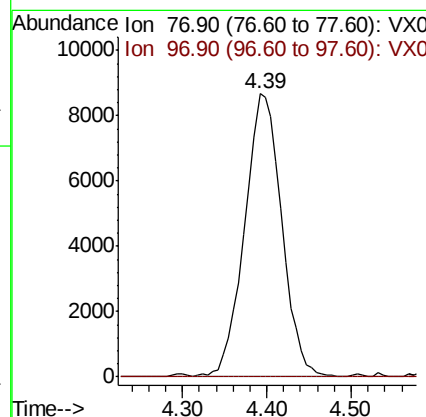
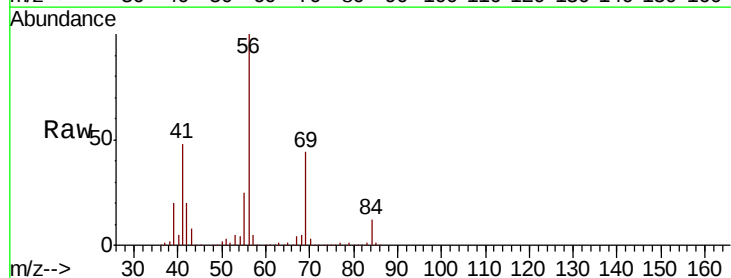
Acq: 23 Aug 2018 14:33

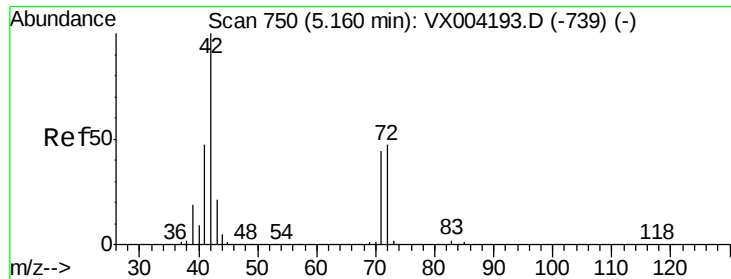
Tgt Ion: 77 Resp: 25882

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#

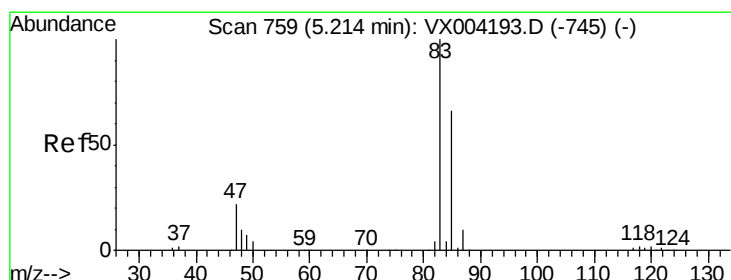
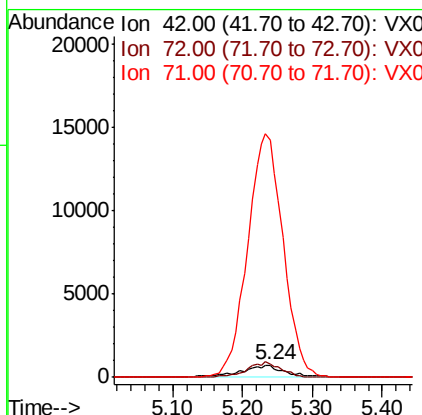
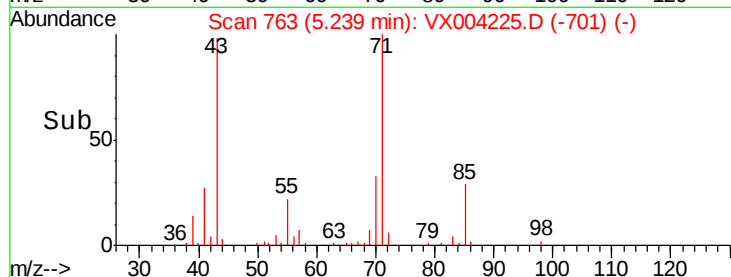
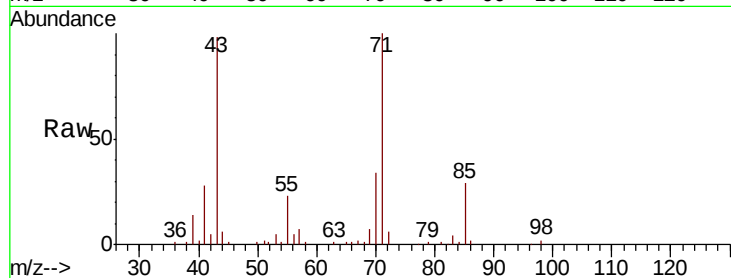




#29  
Tetrahydrofuran  
Concen: 1.81 ug/l  
RT: 5.24 min Scan# 763  
Delta R.T. 0.08 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

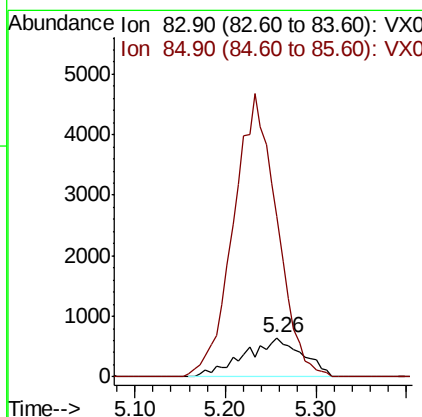
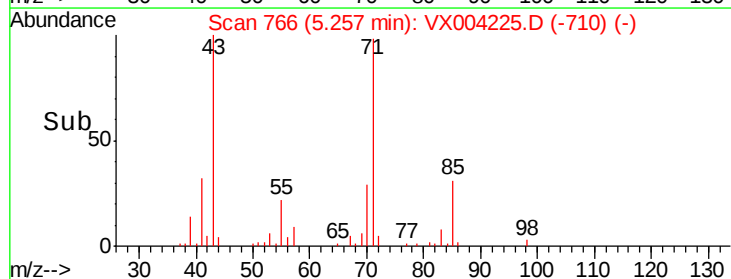
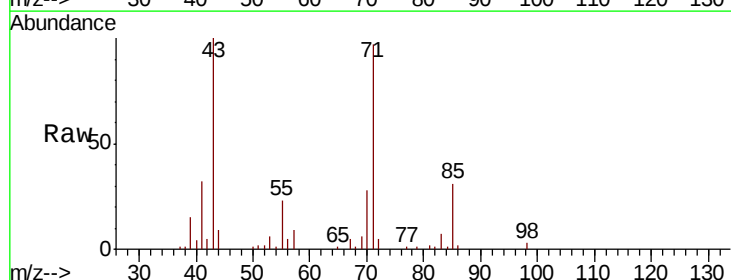
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0543

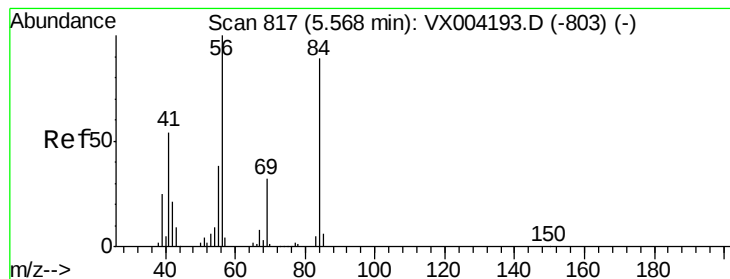
Tot Ion: 42 Resp: 3273  
Ion Ratio Lower Upper  
42 100  
72 91.9 37.4 56.0#  
71 1568.5 34.5 51.7#



#30  
Chloroform  
Concen: 0.41 ug/l  
RT: 5.26 min Scan# 766  
Delta R.T. 0.04 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion: 83 Resp: 2839  
Ion Ratio Lower Upper  
83 100  
85 410.3 52.6 79.0#





#31

Cyclohexane

Concen: 489.83 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

FL-0543

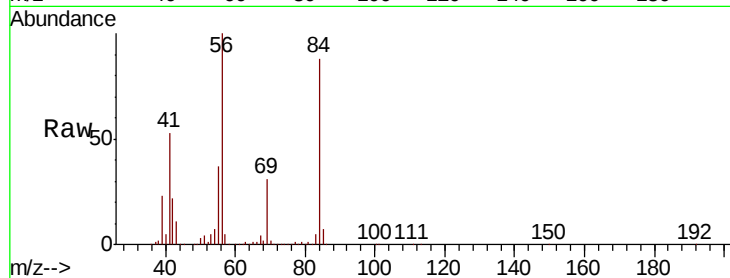
Tot Ion: 56 Resp: 2884524

Ion Ratio Lower Upper

56 100

69 30.9 25.4 38.2

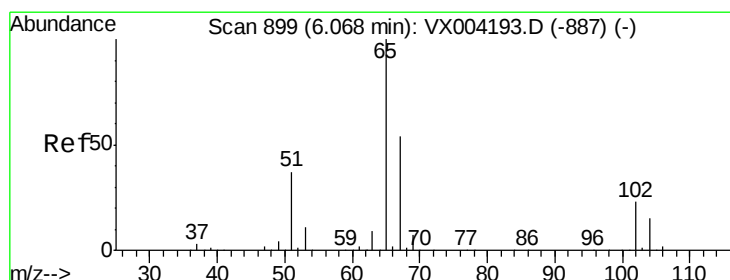
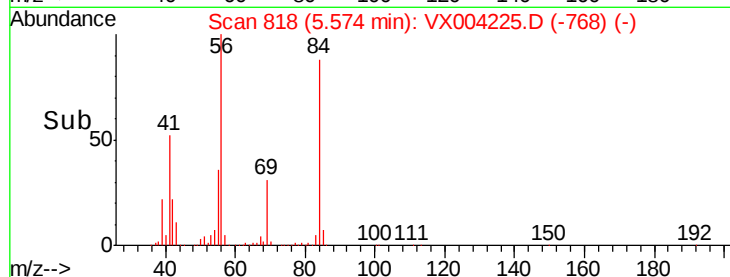
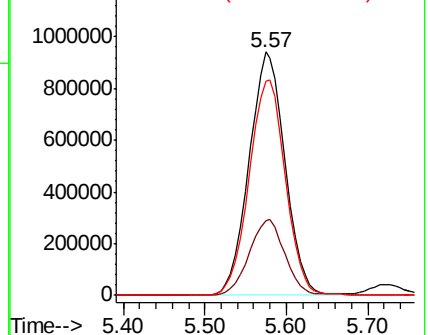
84 88.0 71.4 107.2



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: 48.56 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX004225.D

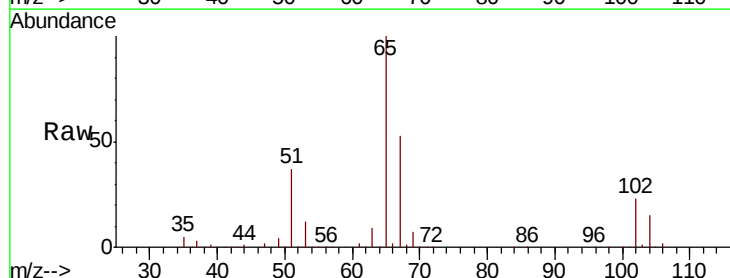
Acq: 23 Aug 2018 14:33

Tgt Ion: 65 Resp: 203948

Ion Ratio Lower Upper

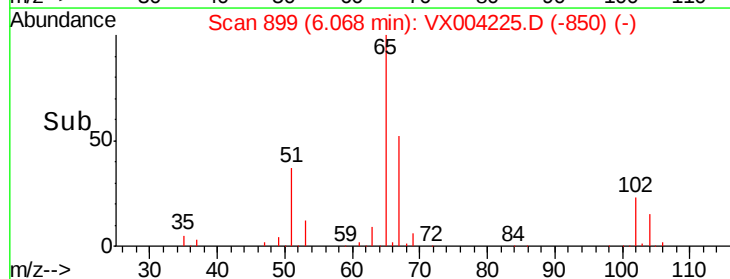
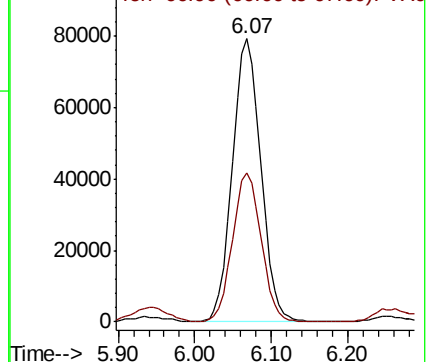
65 100

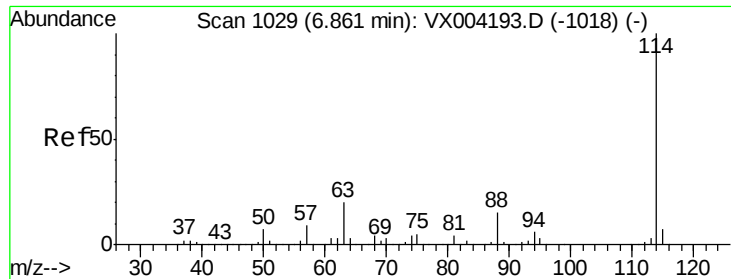
67 52.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

FL-0543

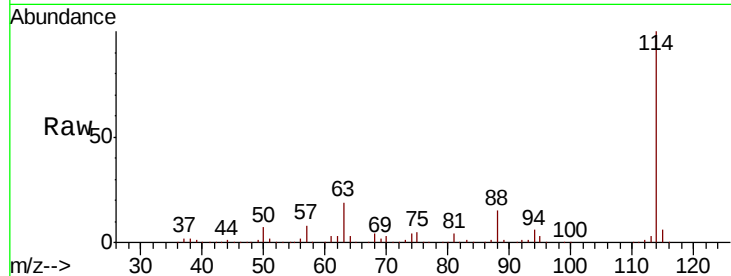
Tot Ion:114 Resp: 501396

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.0

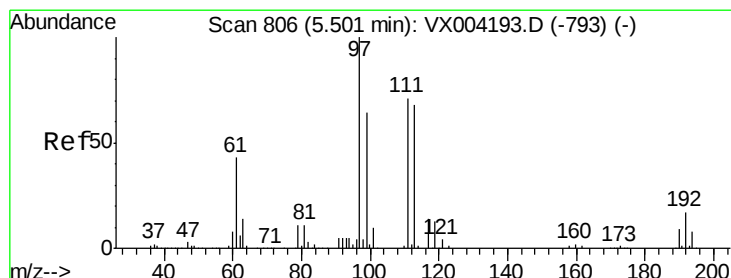
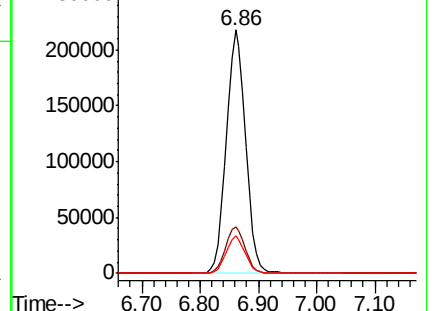
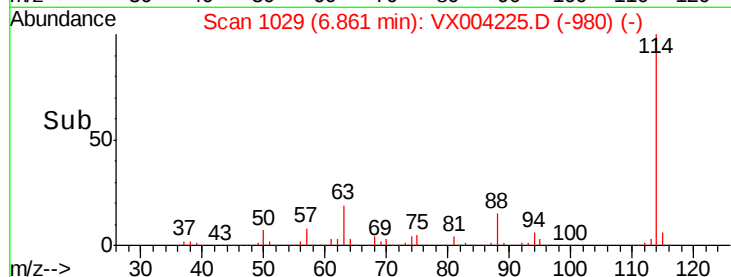
88 15.3 0.0 30.4



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: 46.84 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

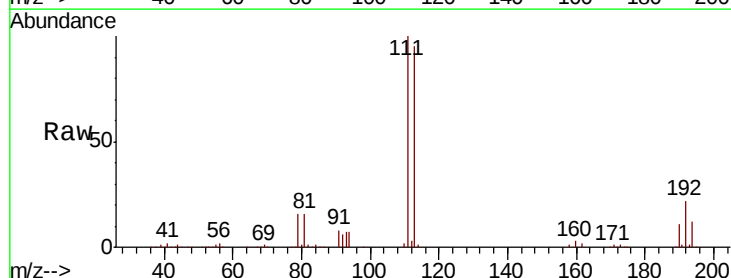
Tgt Ion:113 Resp: 174721

Ion Ratio Lower Upper

113 100

111 103.5 82.4 123.6

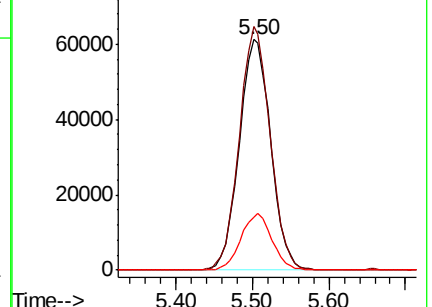
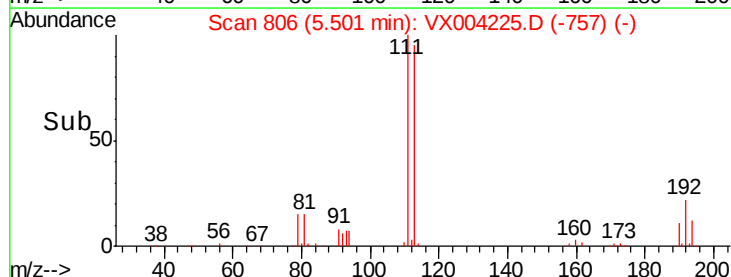
192 24.2 19.4 29.2

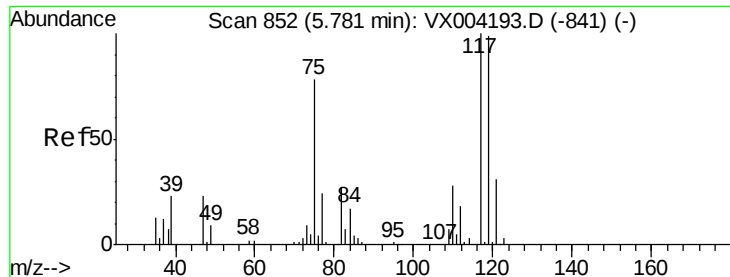


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.44 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

FL-0543

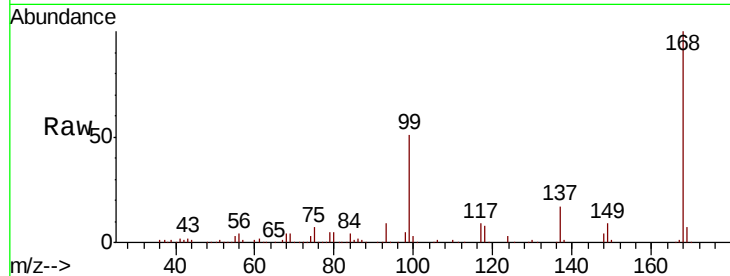
Tot Ion:117 Resp: 28853

Ion Ratio Lower Upper

117 100

119 4.2 78.8 118.2#

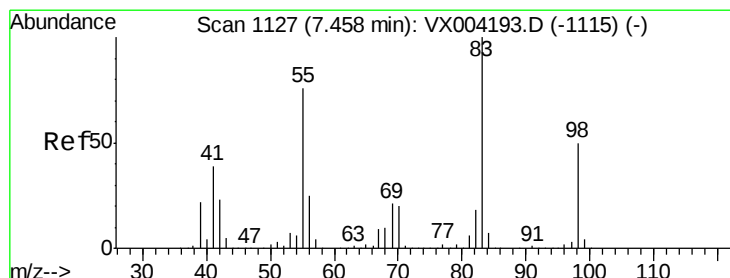
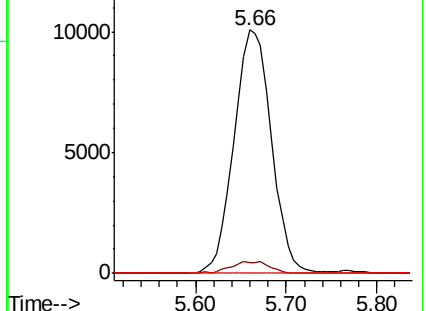
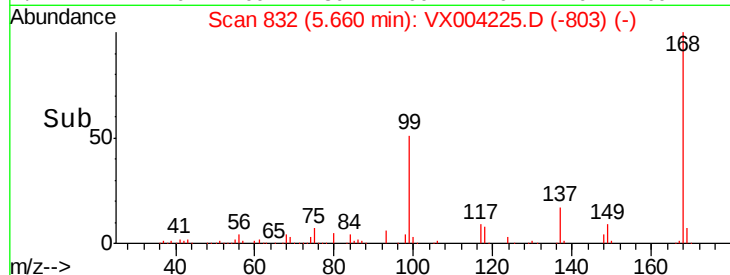
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 382.75 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

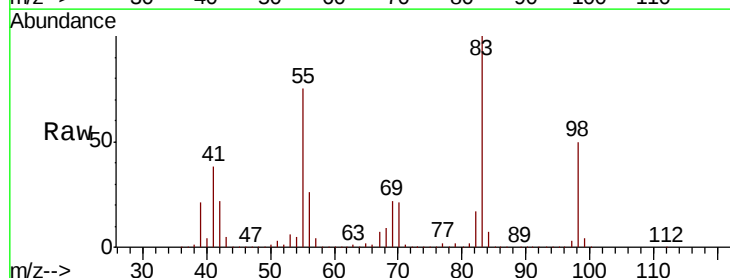
Tgt Ion: 83 Resp: 2463284

Ion Ratio Lower Upper

83 100

55 75.4 61.0 91.4

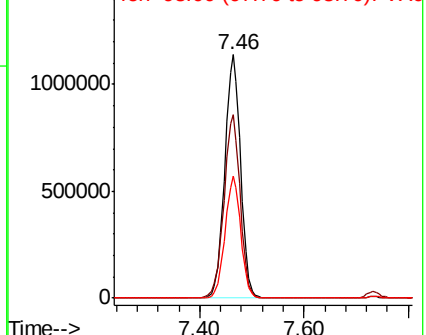
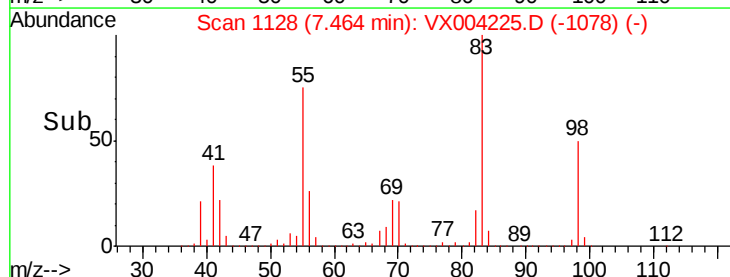
98 49.9 39.6 59.4

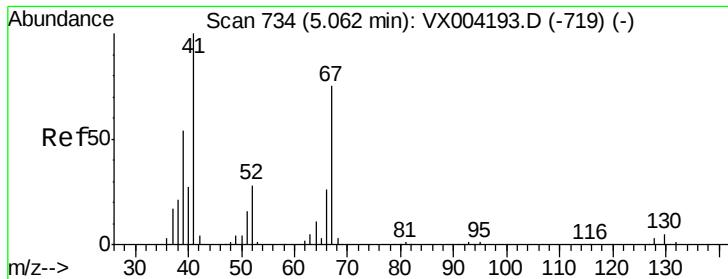


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#41

Methacrylonitrile

Concen: 5.41 ug/l

RT: 5.23 min Scan# 762

Delta R.T. 0.17 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

FL-0543

Tot Ion: 41 Resp: 17374

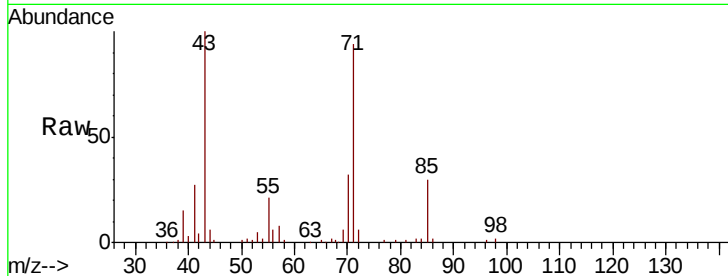
Ion Ratio Lower Upper

41 100

39 56.6 42.4 63.6

67 5.7 59.2 88.8#

52 1.8 23.0 34.4#

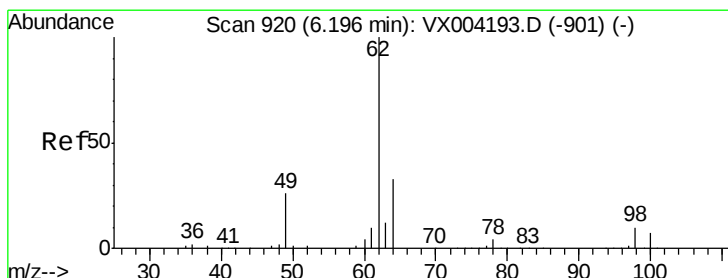
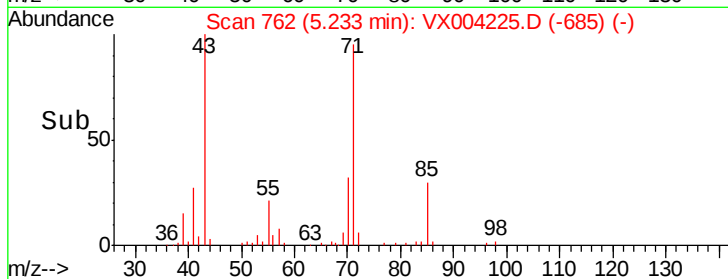
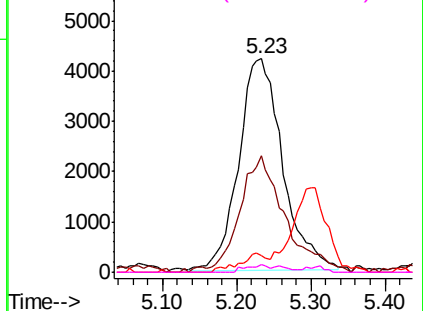


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 0.21 ug/l

RT: 6.25 min Scan# 929

Delta R.T. 0.05 min

Lab File: VX004225.D

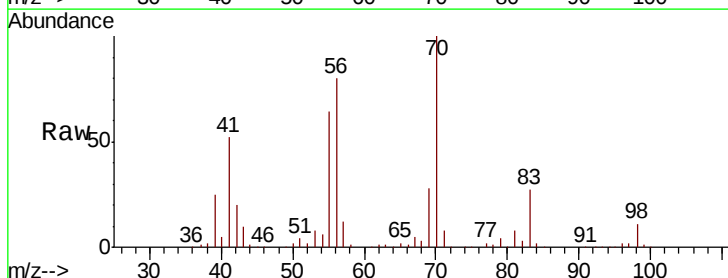
Acq: 23 Aug 2018 14:33

Tgt Ion: 62 Resp: 1202

Ion Ratio Lower Upper

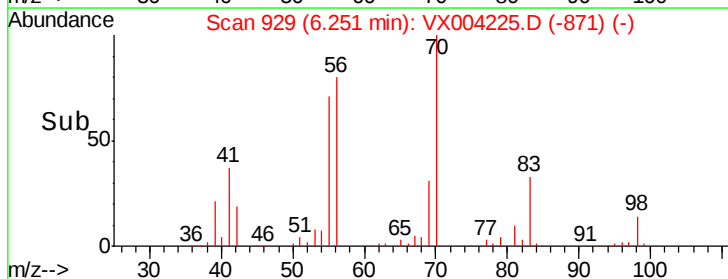
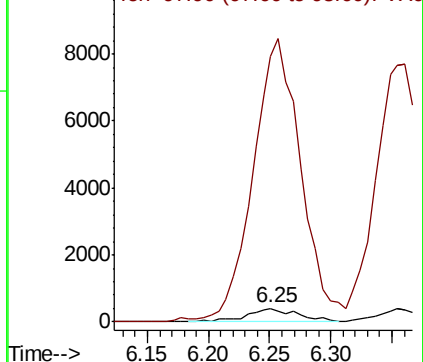
62 100

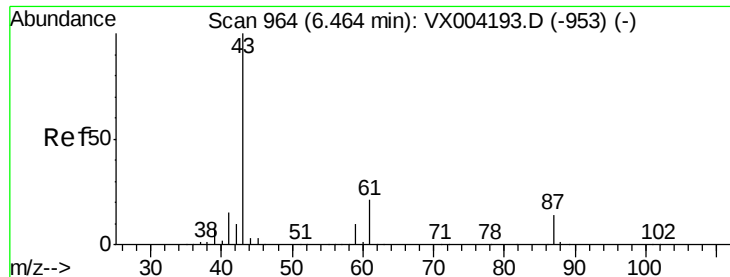
98 1867.2 0.0 20.6#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 2.76 ug/l

RT: 6.45 min Scan# 962

Delta R.T. -0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

FL-0543

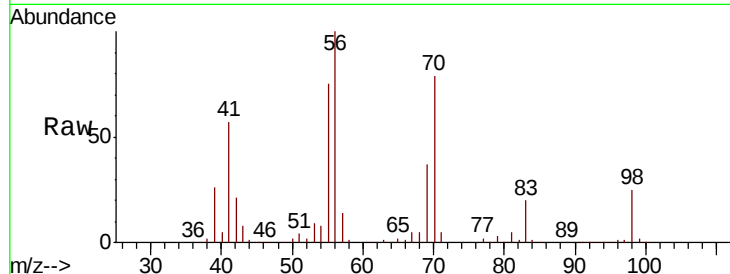
Tot Ion: 43 Resp: 23496

Ion Ratio Lower Upper

43 100

61 2.2 17.0 25.4#

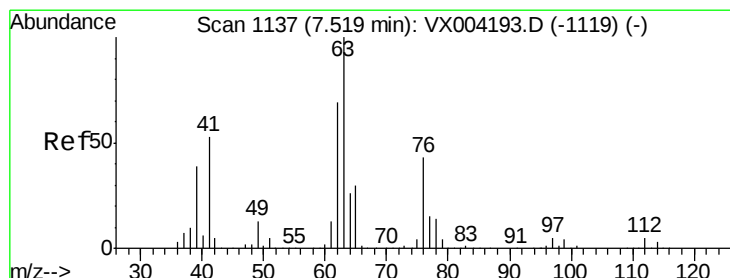
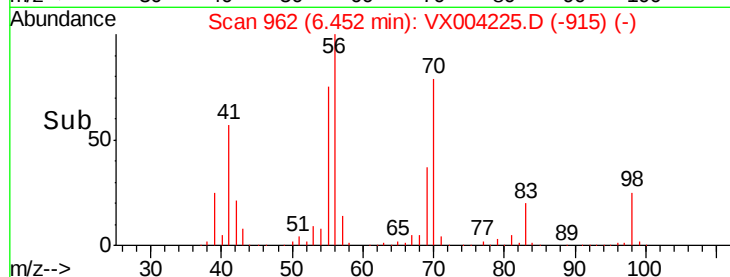
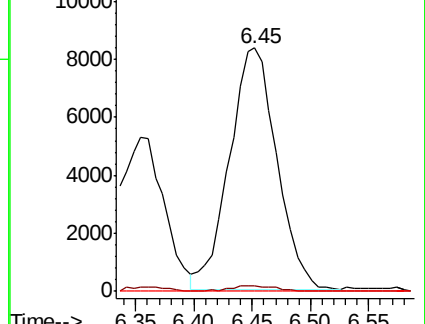
87 0.0 11.4 17.2#



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



#45

1,2-Dichloropropane

Concen: 4.90 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.05 min

Lab File: VX004225.D

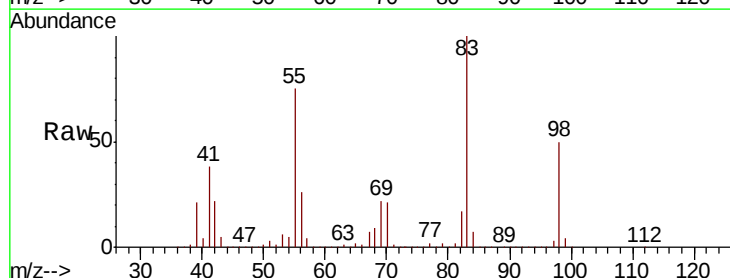
Acq: 23 Aug 2018 14:33

Tgt Ion: 63 Resp: 20659

Ion Ratio Lower Upper

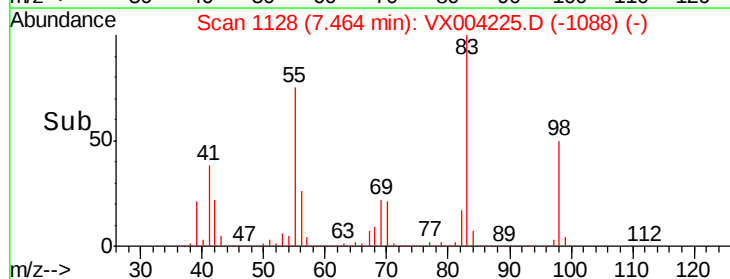
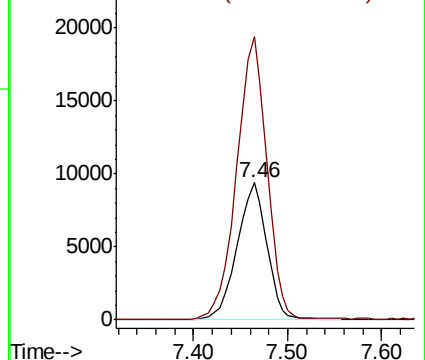
63 100

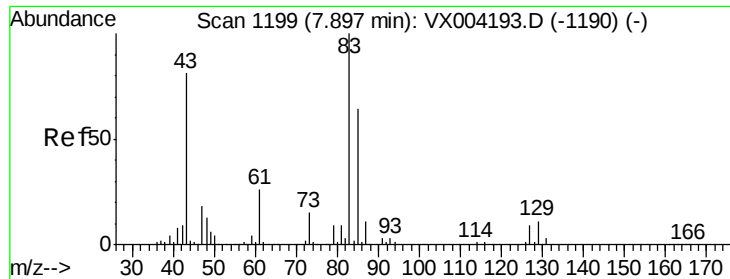
65 205.8 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0





#47

Bromodichloromethane

Concen: 0.40 ug/l

RT: 7.85 min Scan# 1191

Delta R.T. -0.05 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

FL-0543

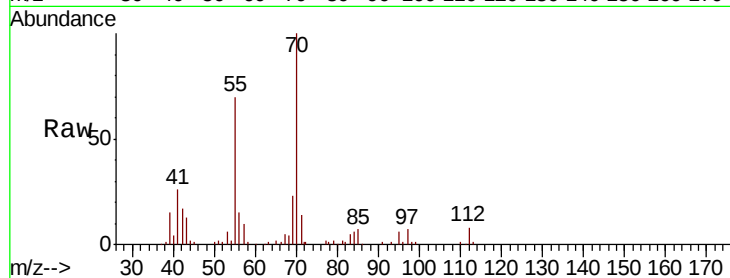
Tot Ion: 83 Resp: 2107

Ion Ratio Lower Upper

83 100

85 154.2 50.9 76.3#

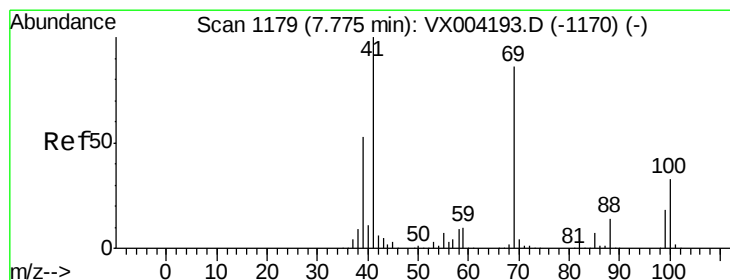
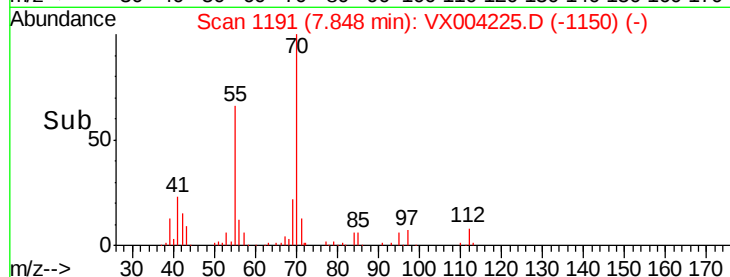
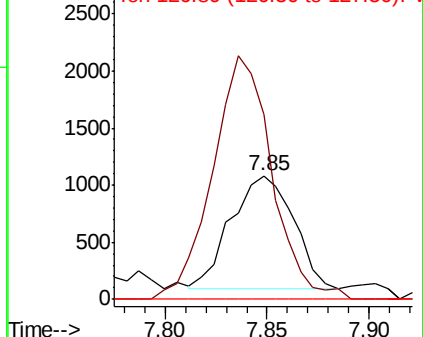
127 0.0 7.3 10.9#



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: 15.35 ug/l

RT: 7.73 min Scan# 1172

Delta R.T. -0.04 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

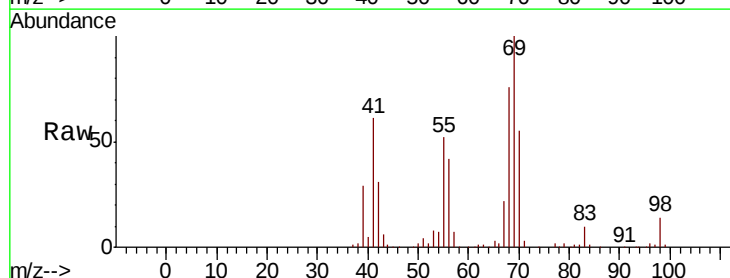
Tgt Ion: 41 Resp: 69958

Ion Ratio Lower Upper

41 100

69 162.9 70.2 105.4#

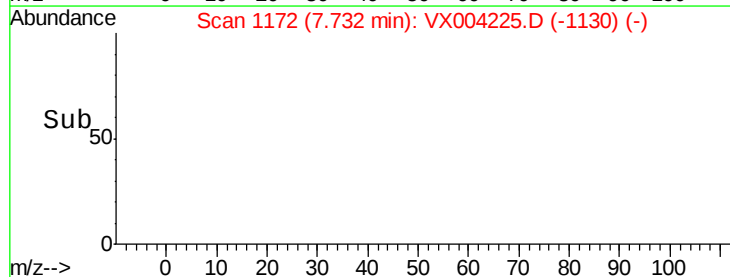
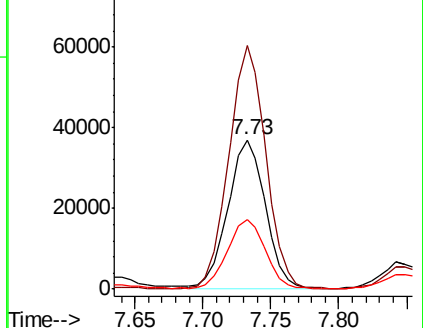
39 47.2 42.7 64.1

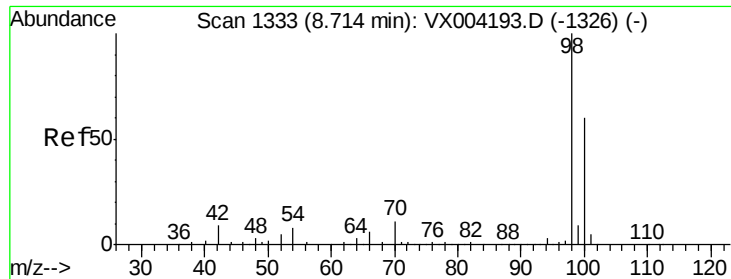


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 50.72 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

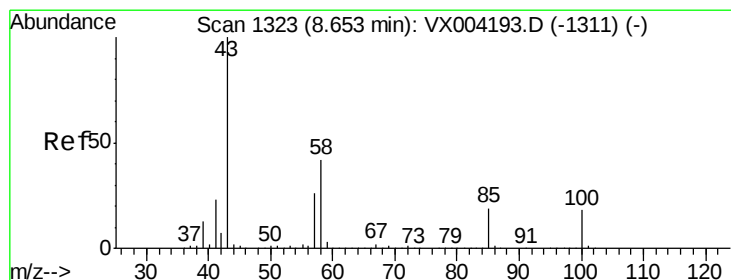
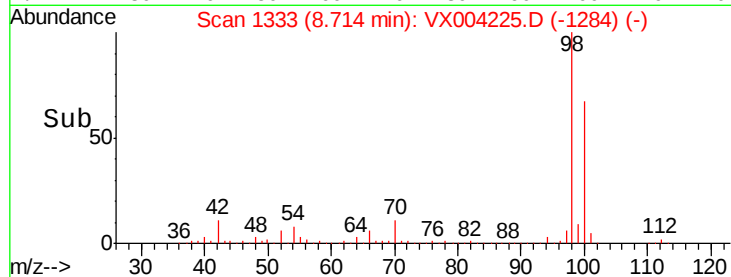
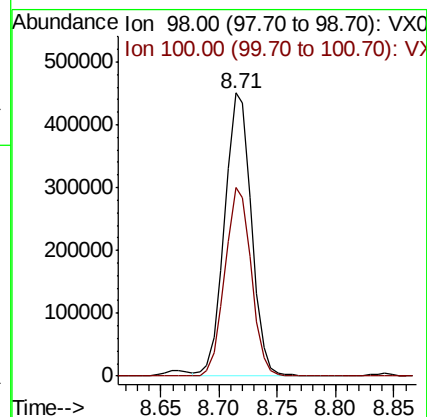
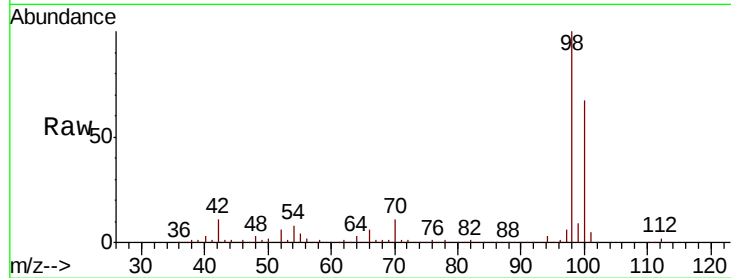
FL-0543

Tot Ion: 98 Resp: 714089

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 2.49 ug/l

RT: 8.67 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VX004225.D

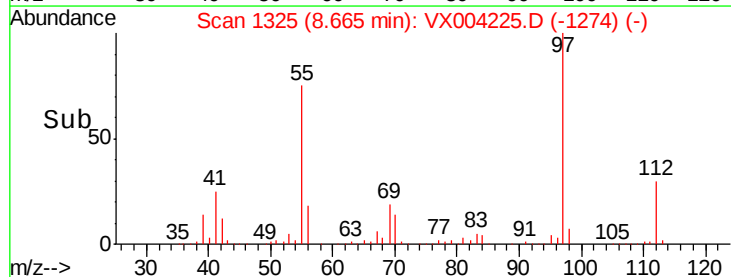
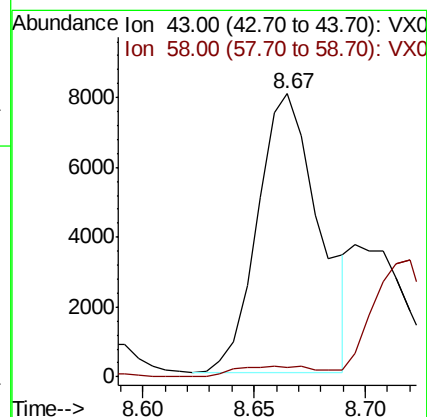
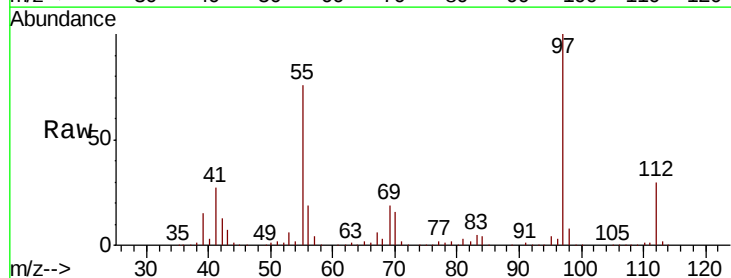
Acq: 23 Aug 2018 14:33

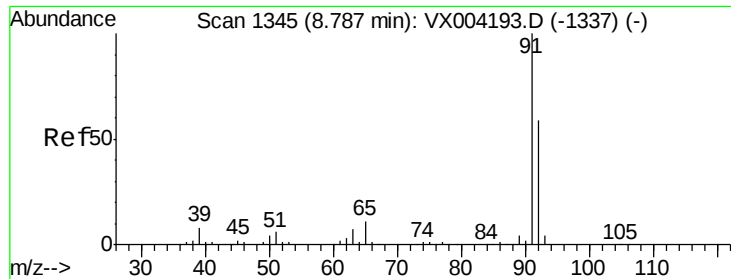
Tgt Ion: 43 Resp: 15390

Ion Ratio Lower Upper

43 100

58 4.5 33.1 49.7#





#52

Toluene

Concen: 42.27 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

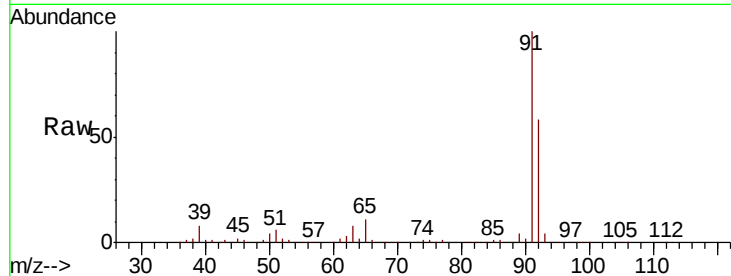
FL-0543

Tot Ion: 92 Resp: 445652

Ion Ratio Lower Upper

92 100

91 169.8 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

500000

400000

300000

200000

100000

0

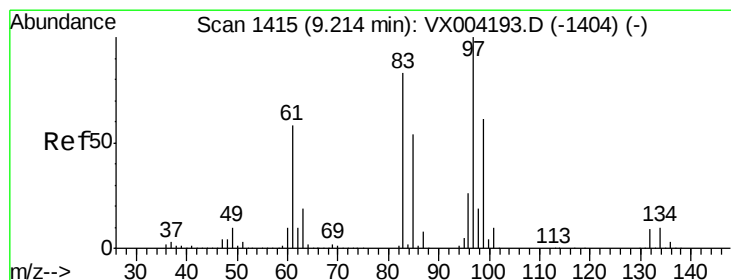
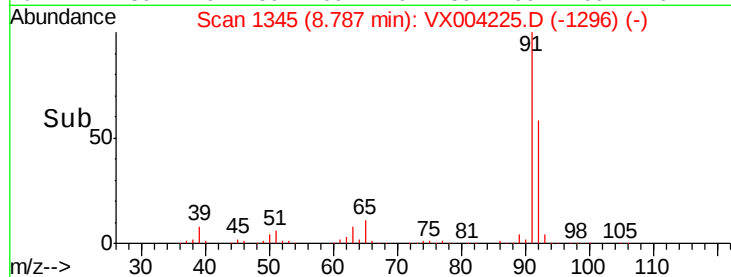
8.79

8.70

8.80

8.90

Time-->



#55

1,1,2-Trichloroethane

Concen: 23.42 ug/l

RT: 9.16 min Scan# 1407

Delta R.T. -0.05 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Tgt Ion: 97 Resp: 99675

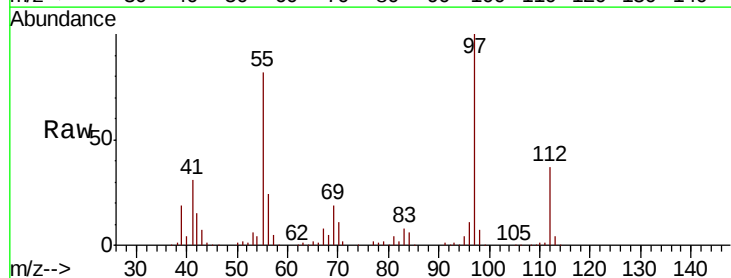
Ion Ratio Lower Upper

97 100

83 8.3 66.4 99.6#

85 0.4 43.3 64.9#

99 0.3 49.0 73.4#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

100000

80000

60000

40000

20000

0

9.16

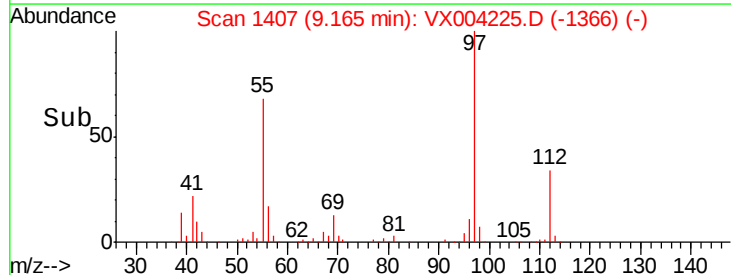
9.10

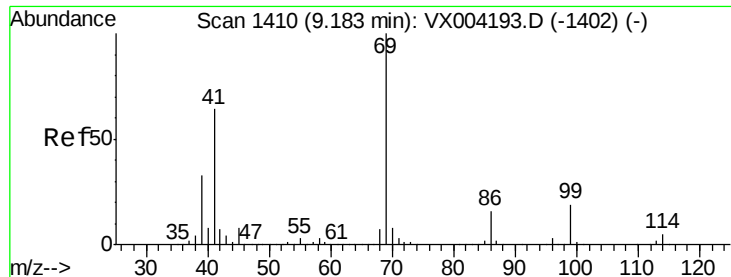
9.15

9.20

9.25

Time-->

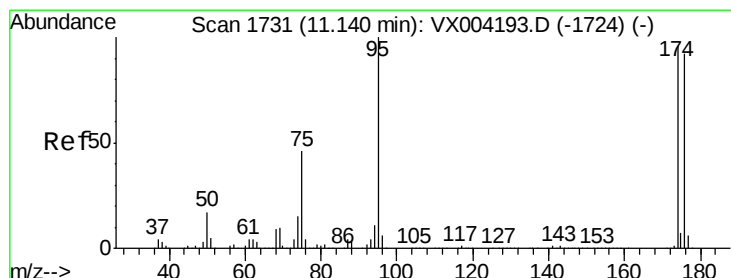
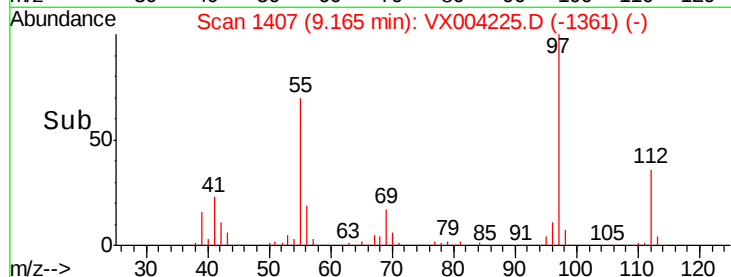
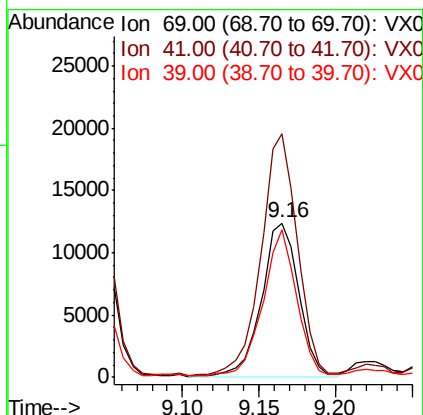
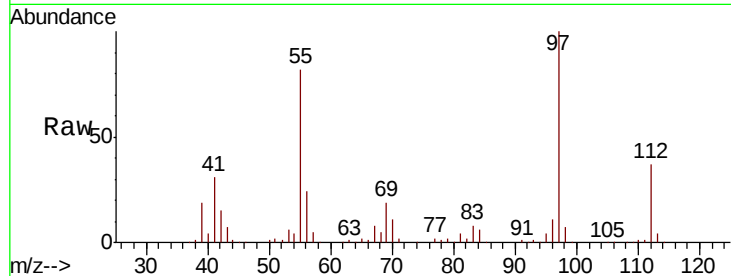




#56  
Ethyl methacrylate  
Concen: 3.59 ug/l  
RT: 9.16 min Scan# 1407  
Delta R.T. -0.02 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

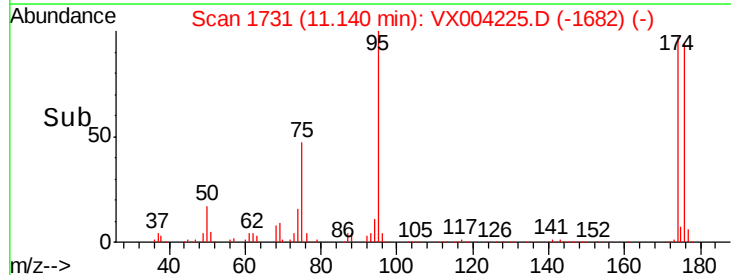
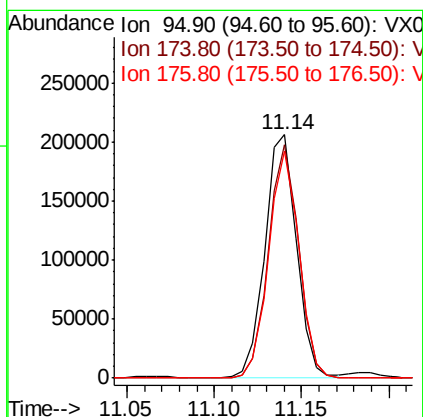
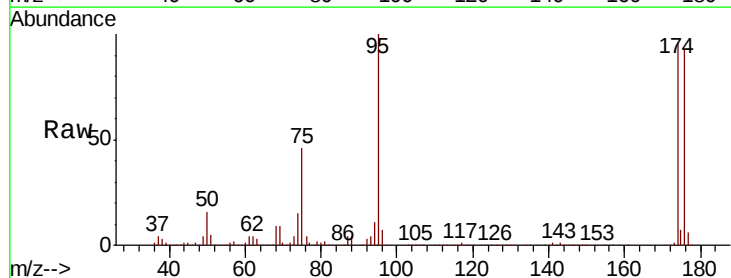
Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0543

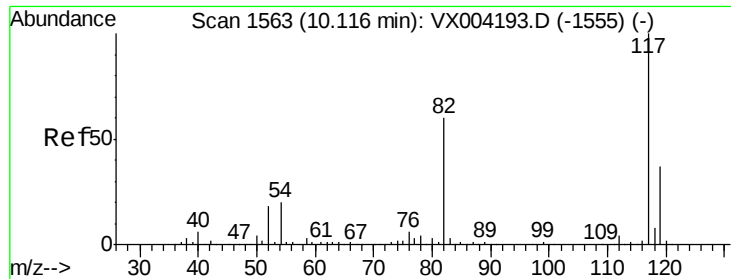
Tot Ion: 69 Resp: 20825  
Ion Ratio Lower Upper  
69 100  
41 153.7 51.0 76.4#  
39 85.8 26.1 39.1#



#62  
4-Bromofluorobenzene  
Concen: 49.33 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion: 95 Resp: 259142  
Ion Ratio Lower Upper  
95 100  
174 92.0 0.0 185.2  
176 89.5 0.0 178.6

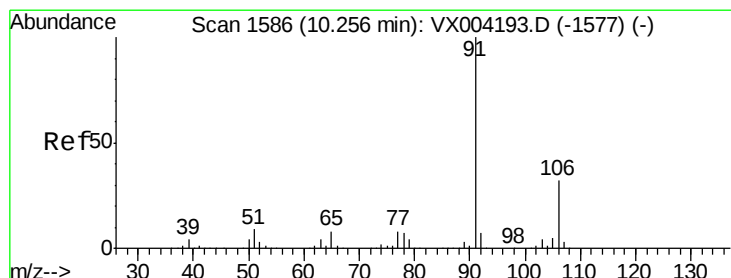
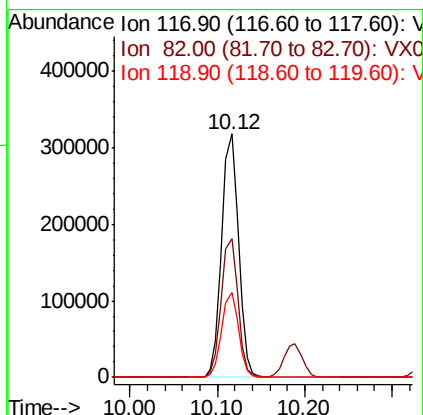
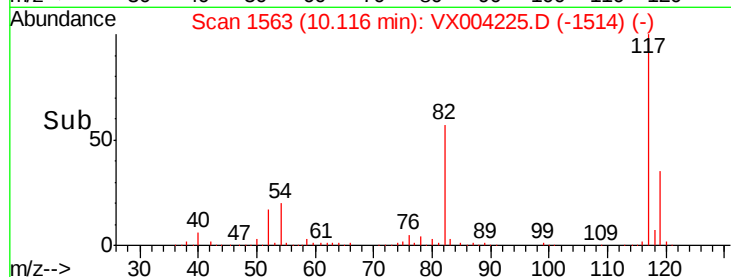
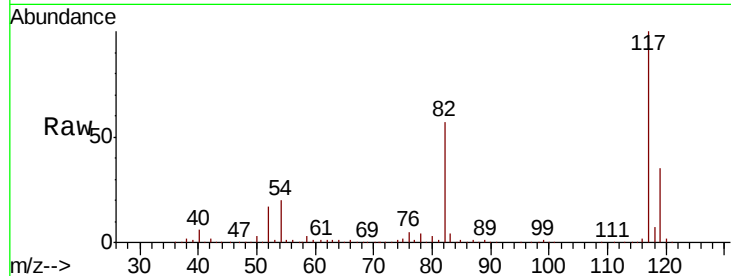




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

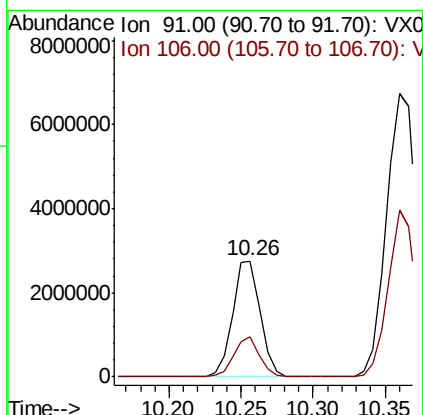
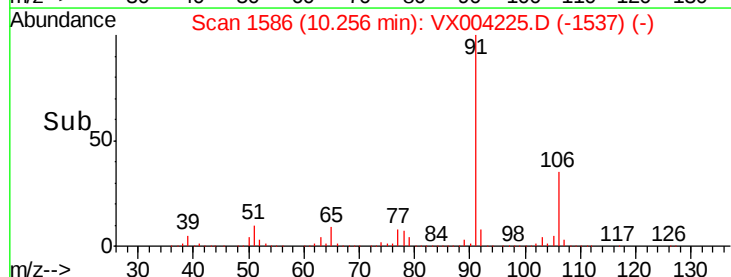
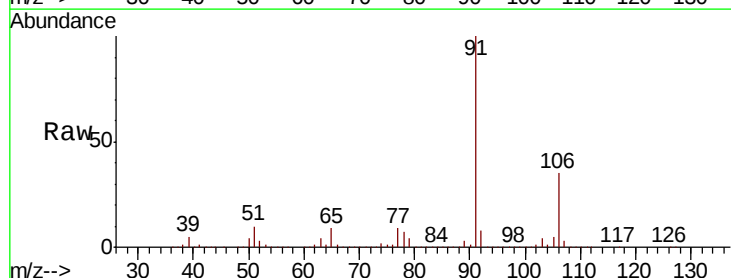
Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0543

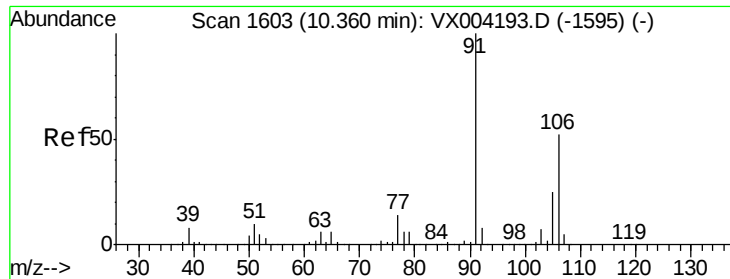
Tot Ion:117 Resp: 424912  
Ion Ratio Lower Upper  
117 100  
82 57.0 47.8 71.6  
119 35.0 29.3 43.9



#67  
Ethyl Benzene  
Concen: 213.78 ug/l  
RT: 10.26 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion: 91 Resp: 3702471  
Ion Ratio Lower Upper  
91 100  
106 34.5 25.9 38.9

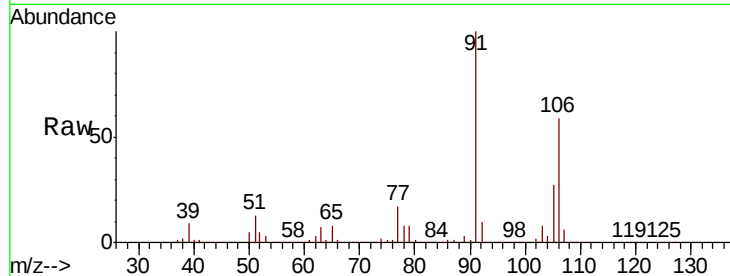




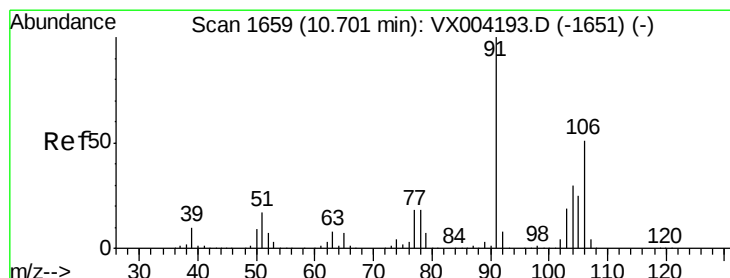
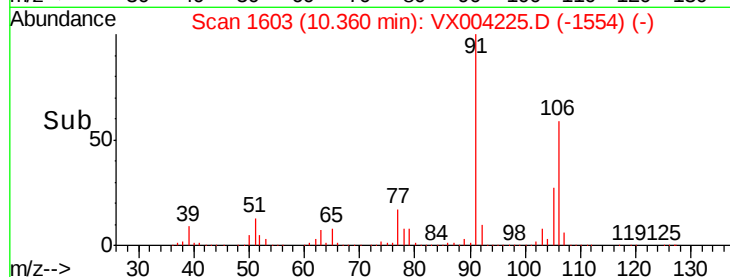
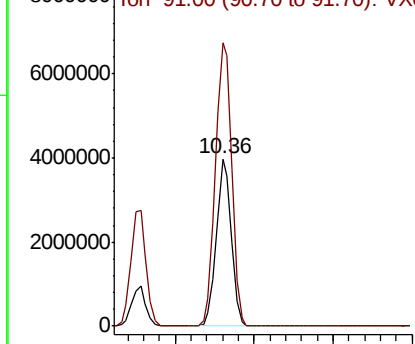
#68  
m/p-Xylenes  
Concen: 774.36 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. 0.00 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0543

Tot Ion:106 Resp: 5244023  
Ion Ratio Lower Upper  
106 100  
91 185.1 157.1 235.7

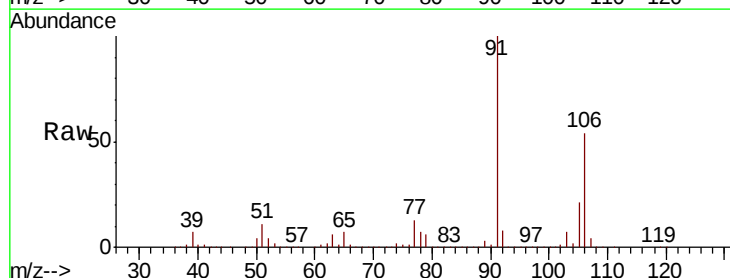


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

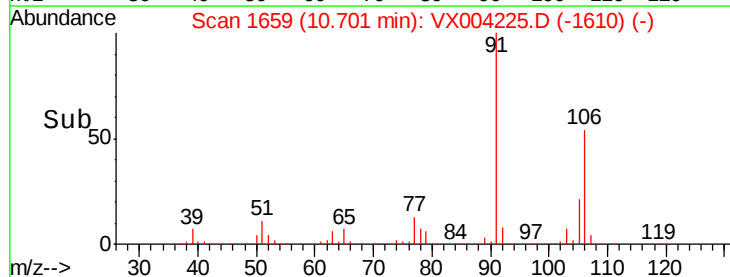
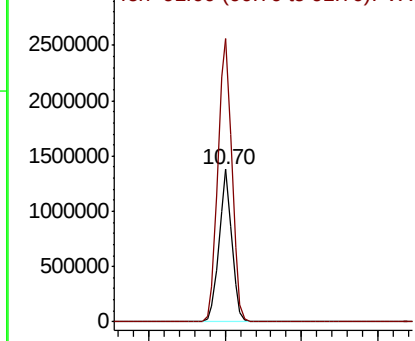


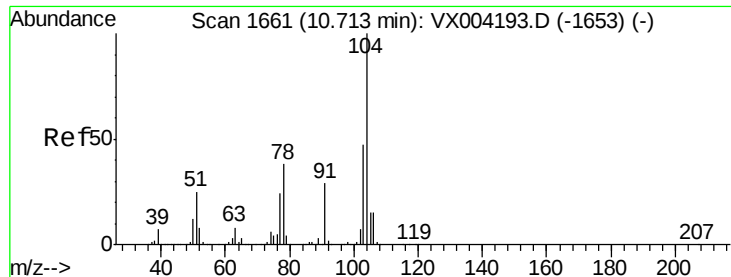
#69  
o-Xylene  
Concen: 246.47 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. 0.00 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion:106 Resp: 1578830  
Ion Ratio Lower Upper  
106 100  
91 204.9 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0





#70

Stvrene

Concen: 7.41 ug/l

RT: 10.70 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

FL-0543

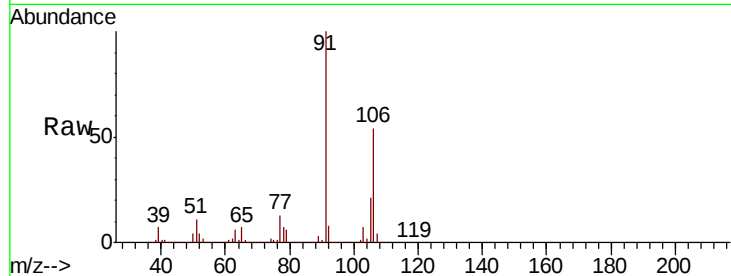
Tot Ion:104 Resp: 76888

Ion Ratio Lower Upper

104 100

78 291.0 37.4 56.0#

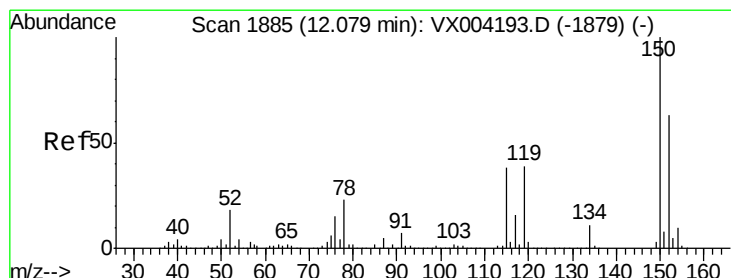
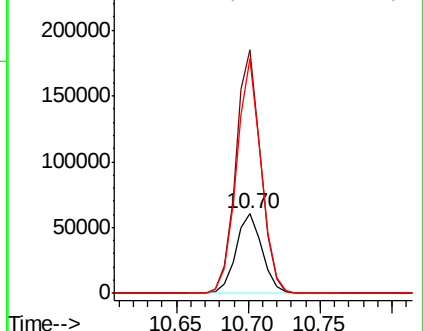
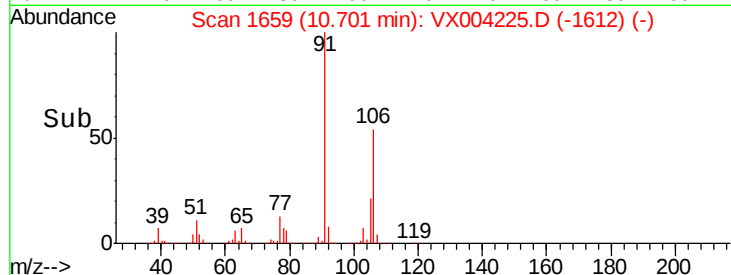
103 276.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

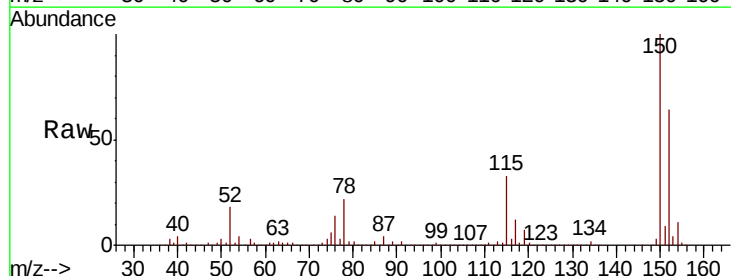
Tgt Ion:152 Resp: 279810

Ion Ratio Lower Upper

152 100

115 57.0 39.0 117.0

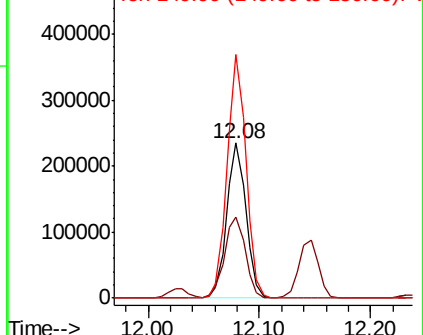
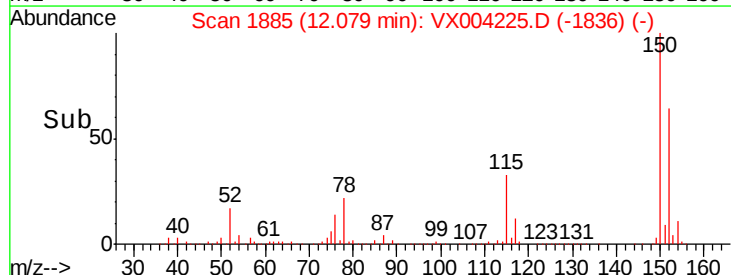
150 154.9 0.0 351.0

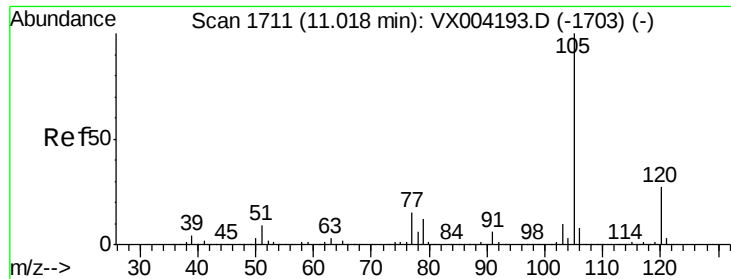


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 47.76 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

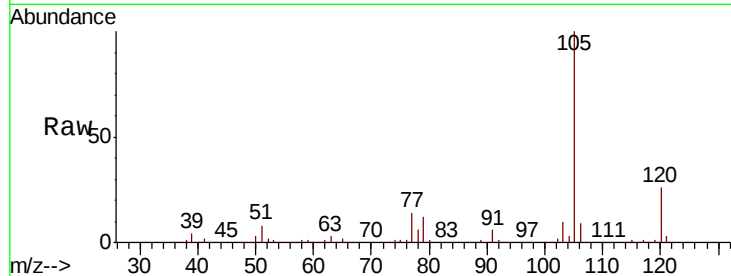
FL-0543

Tot Ion:105 Resp: 877769

Ion Ratio Lower Upper

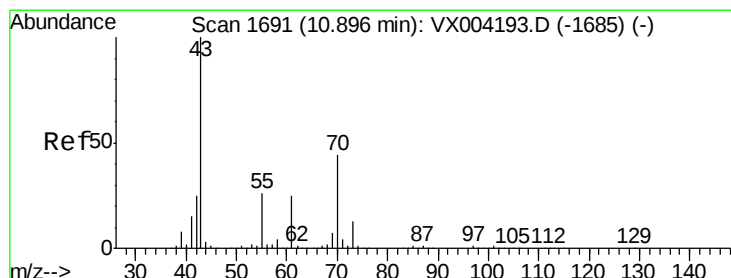
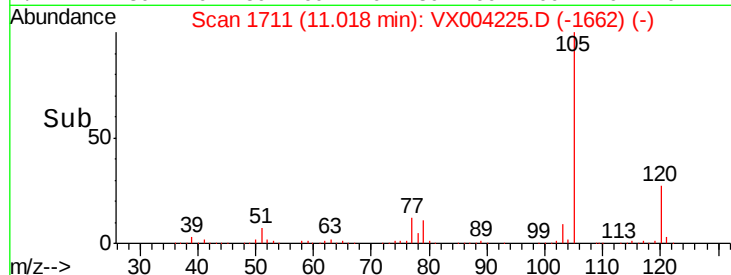
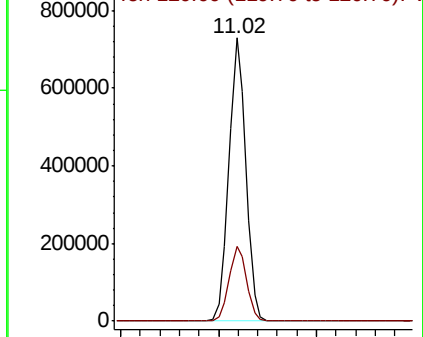
105 100

120 27.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.26 ug/l

RT: 10.91 min Scan# 1694

Delta R.T. 0.02 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Tgt Ion: 43 Resp: 1871

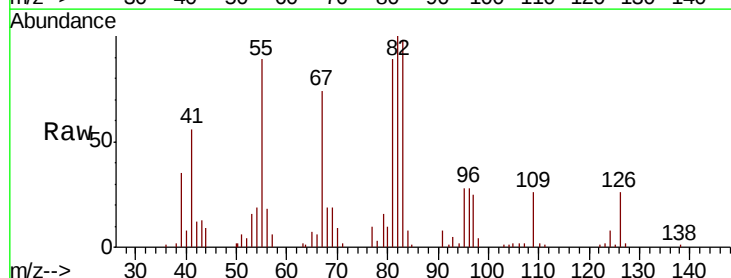
Ion Ratio Lower Upper

43 100

70 69.1 37.4 56.0#

55 517.5 21.8 32.8#

61 0.0 20.6 30.8#

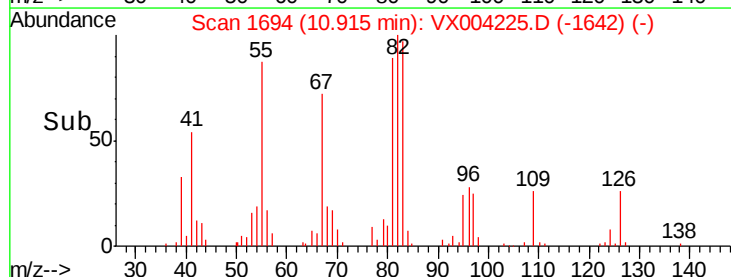
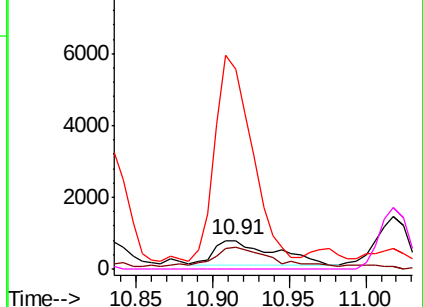


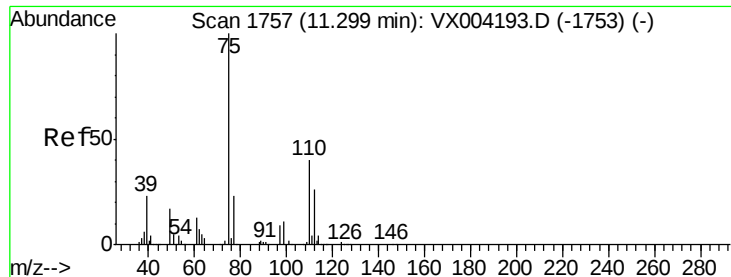
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 1.78 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.06 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

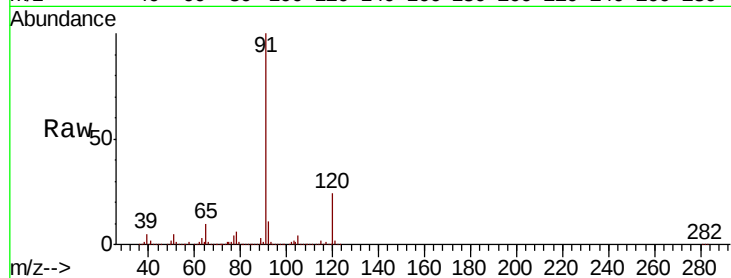
FL-0543

Tot Ion: 75 Resp: 10104

Ion Ratio Lower Upper

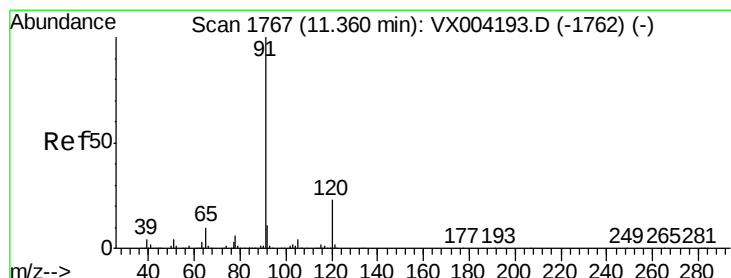
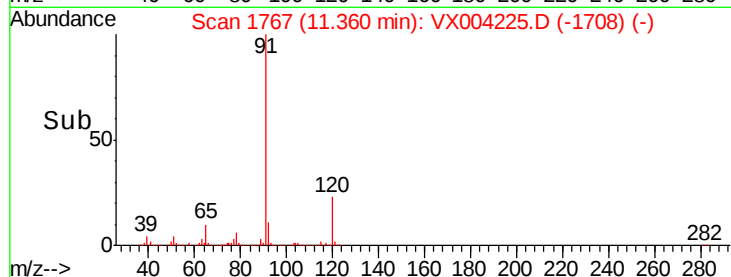
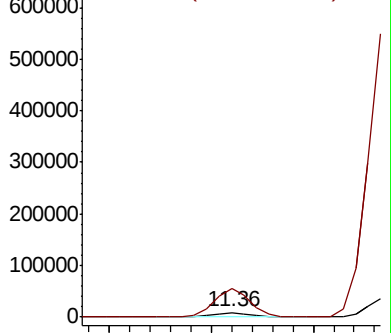
75 100

77 656.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#78

n-propylbenzene

Concen: 82.44 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX004225.D

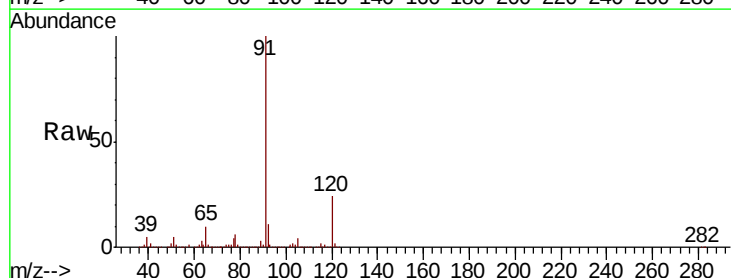
Acq: 23 Aug 2018 14:33

Tgt Ion: 91 Resp: 1742458

Ion Ratio Lower Upper

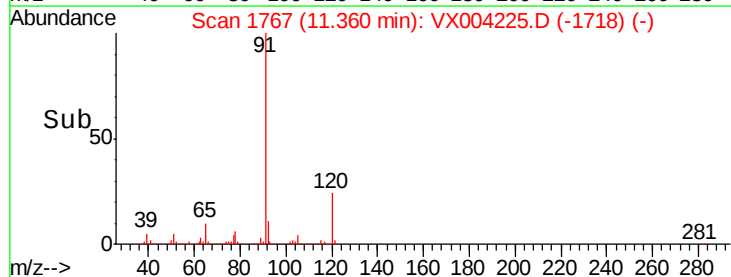
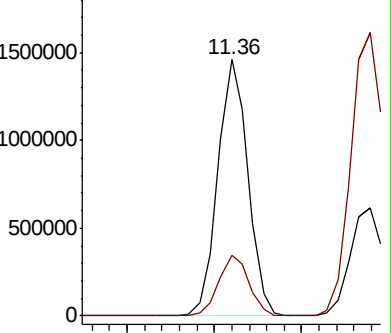
91 100

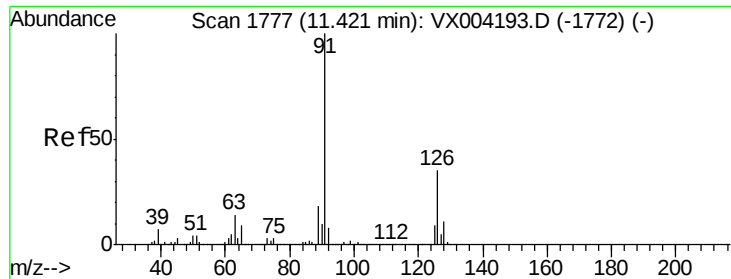
120 23.8 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 77.68 ug/l

RT: 11.44 min Scan# 1780

Delta R.T. 0.02 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

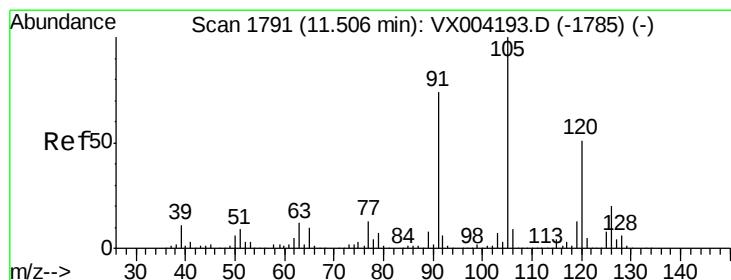
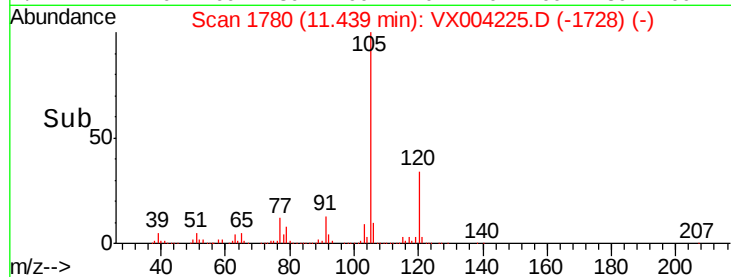
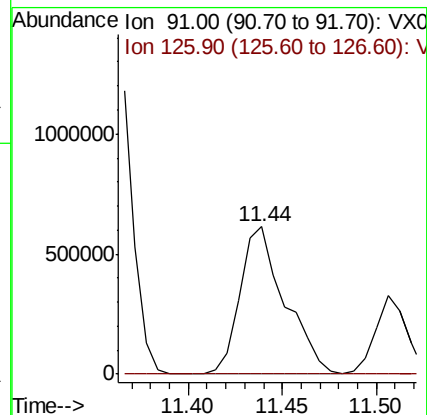
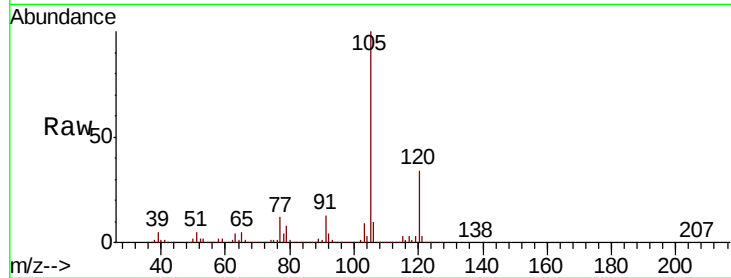
FL-0543

Tot Ion: 91 Resp: 1010585

Ion Ratio Lower Upper

91 100

126 0.1 17.9 53.7#



#80

1,3,5-Trimethylbenzene

Concen: 242.82 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX004225.D

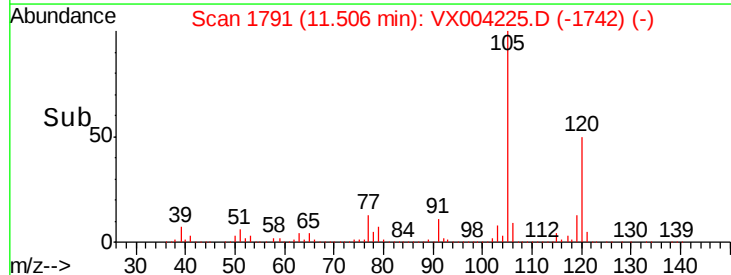
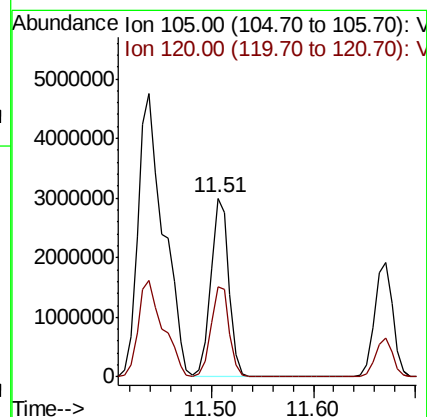
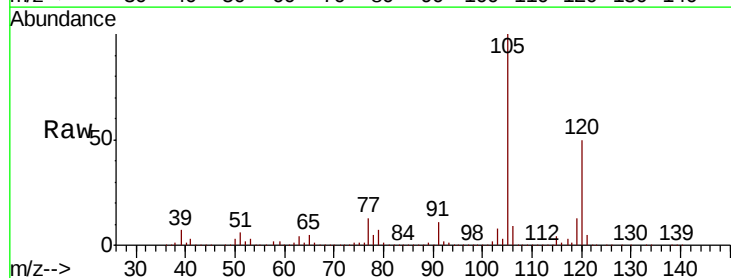
Acq: 23 Aug 2018 14:33

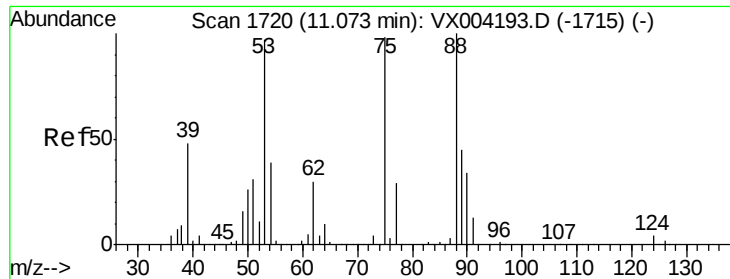
Tgt Ion:105 Resp: 3695502

Ion Ratio Lower Upper

105 100

120 51.2 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 5.46 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.05 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

FL-0543

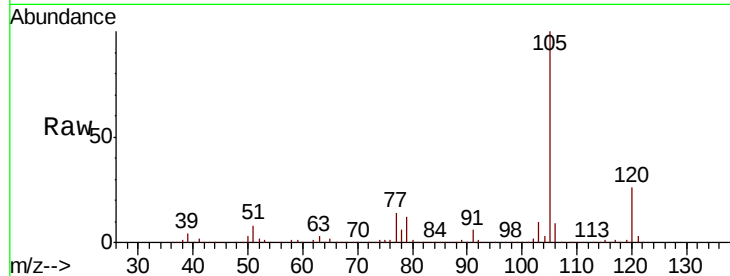
Tot Ion: 75 Resp: 9582

Ion Ratio Lower Upper

75 100

53 106.6 80.1 120.1

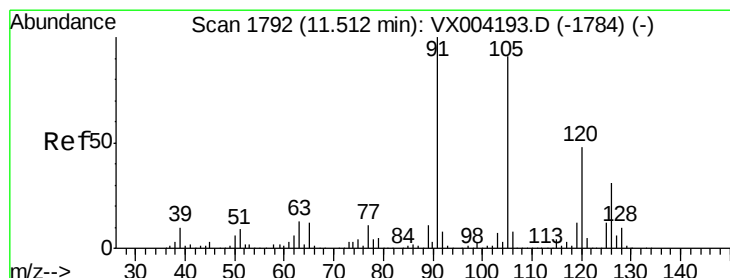
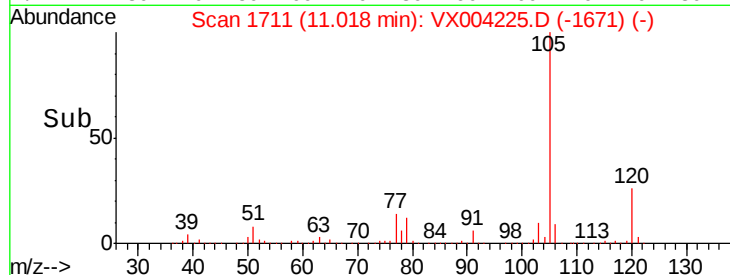
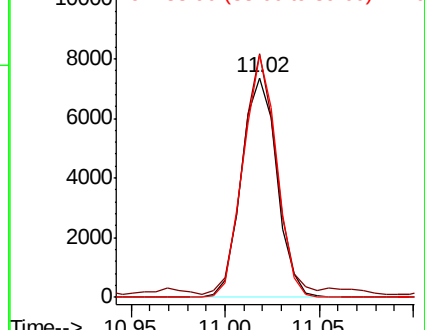
89 104.3 37.2 55.8#



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



#82

4-Chlorotoluene

Concen: 24.66 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX004225.D

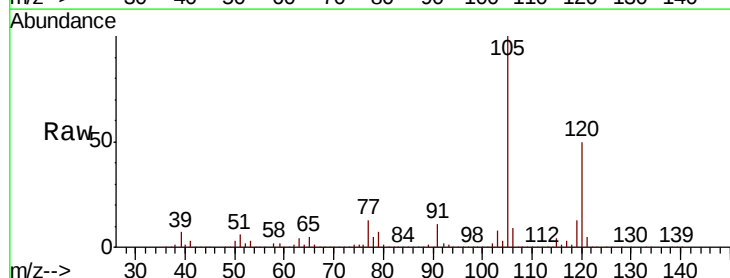
Acq: 23 Aug 2018 14:33

Tgt Ion: 91 Resp: 377481

Ion Ratio Lower Upper

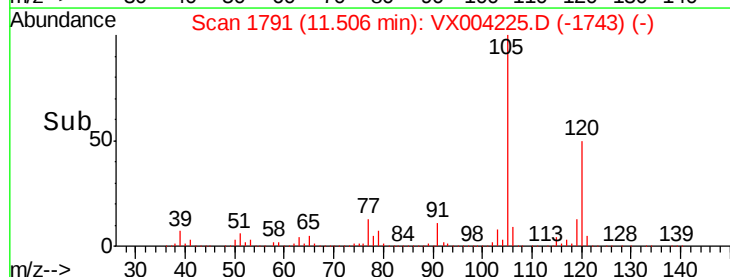
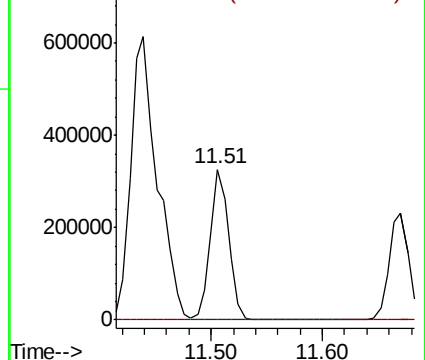
91 100

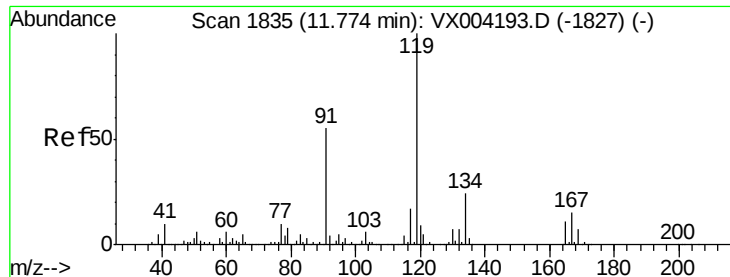
126 0.2 15.5 46.5#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 5.06 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampled :

FL-0543

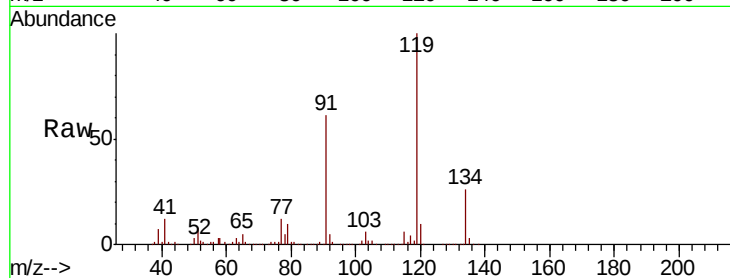
Tot Ion:119 Resp: 77426

Ion Ratio Lower Upper

119 100

91 65.4 27.0 81.0

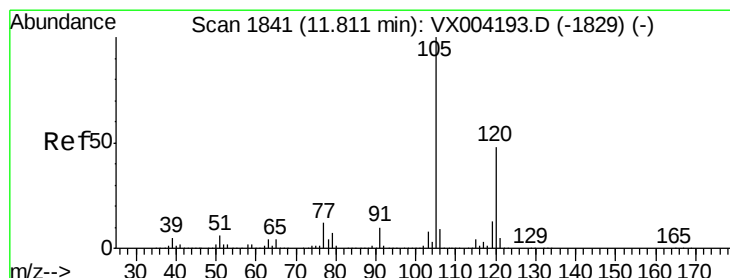
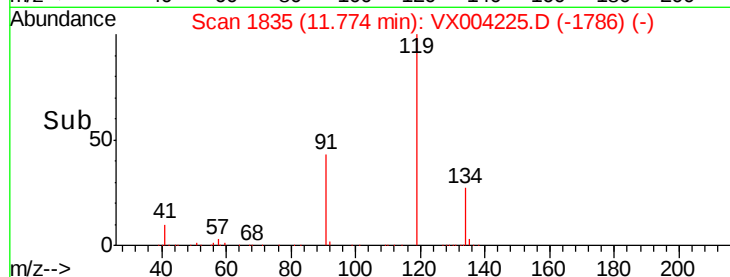
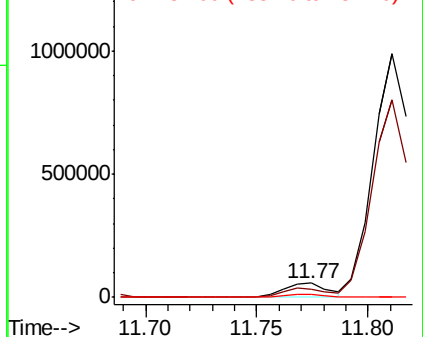
134 25.8 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 534.78 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX004225.D

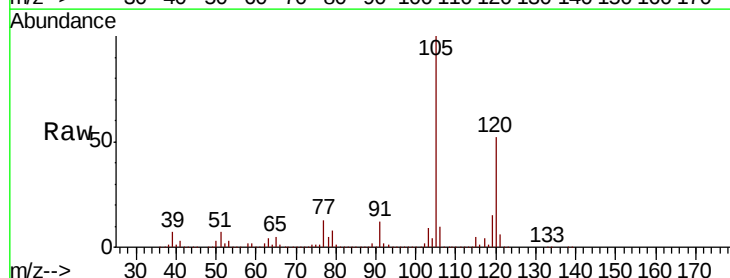
Acq: 23 Aug 2018 14:33

Tgt Ion:105 Resp: 8354420

Ion Ratio Lower Upper

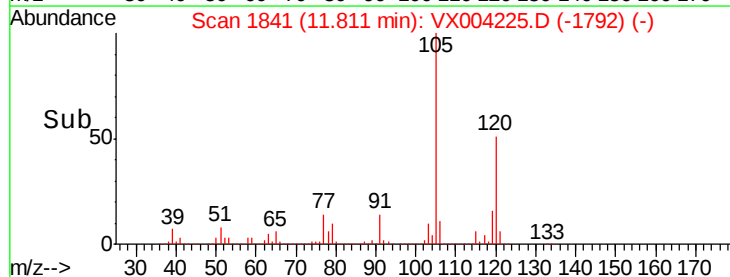
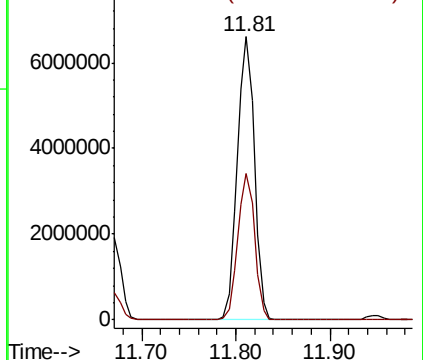
105 100

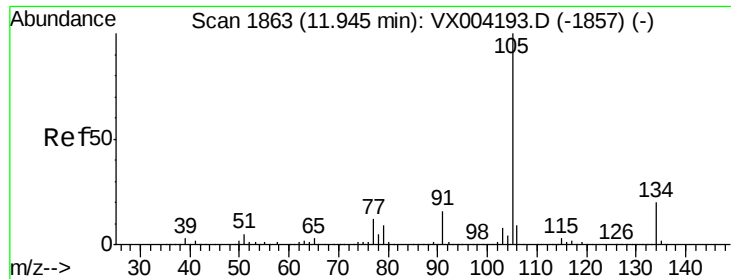
120 50.9 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 459.56 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.13 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

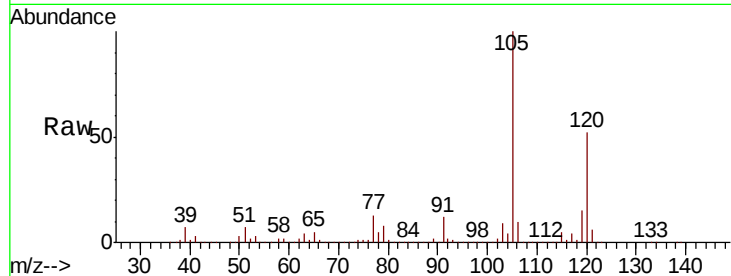
FL-0543

Tot Ion:105 Resp: 8354420

Ion Ratio Lower Upper

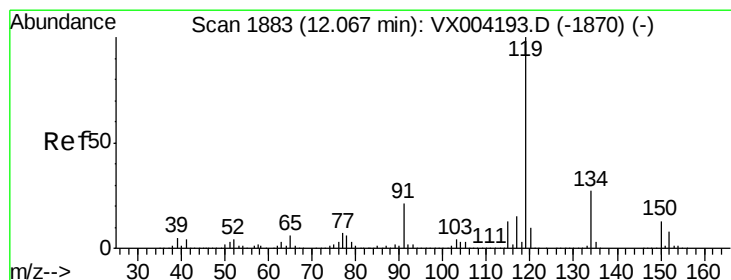
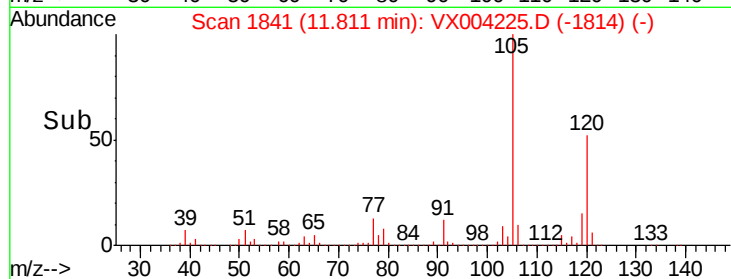
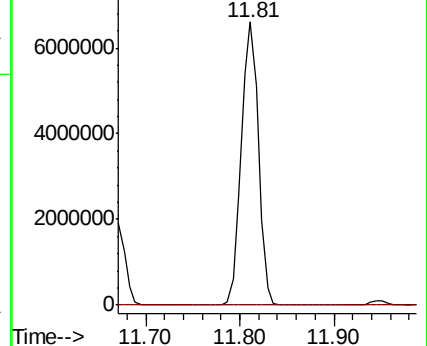
105 100

134 0.0 10.5 31.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 8.10 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

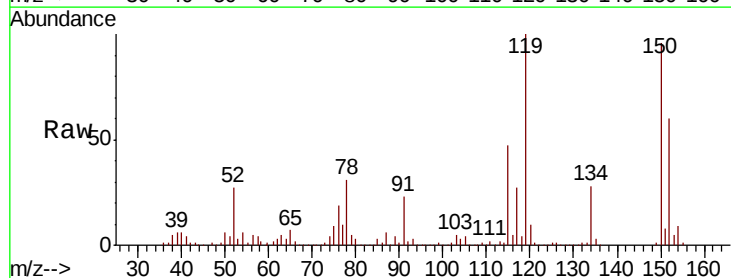
Tgt Ion:119 Resp: 131995

Ion Ratio Lower Upper

119 100

134 27.5 13.4 40.2

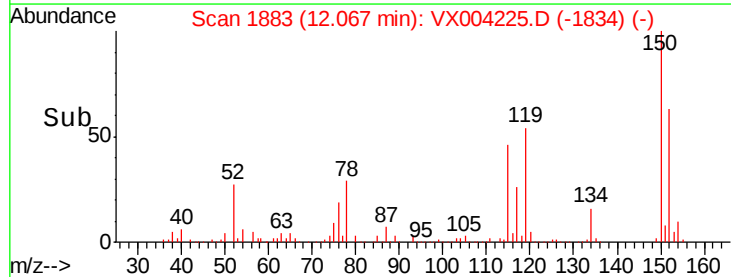
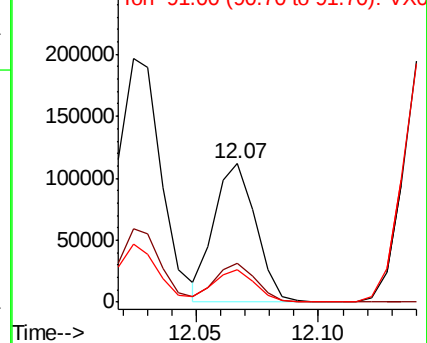
91 22.9 10.9 32.7

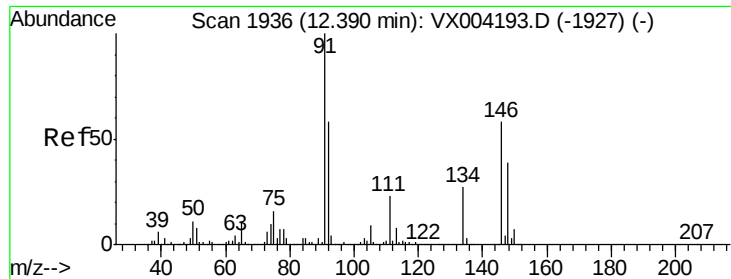


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

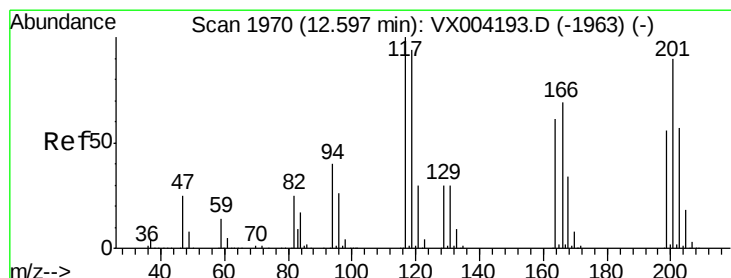
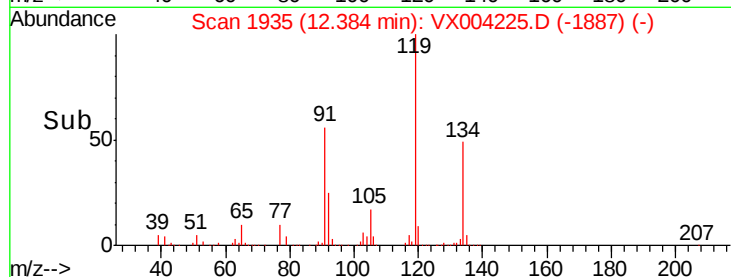
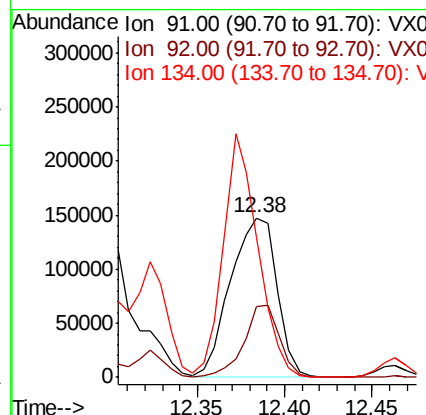
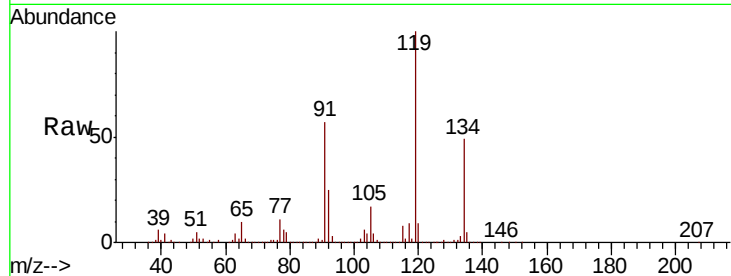




#89  
n-Butylbenzene  
Concen: 20.45 ug/l  
RT: 12.38 min Scan# 1935  
Delta R.T. -0.01 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

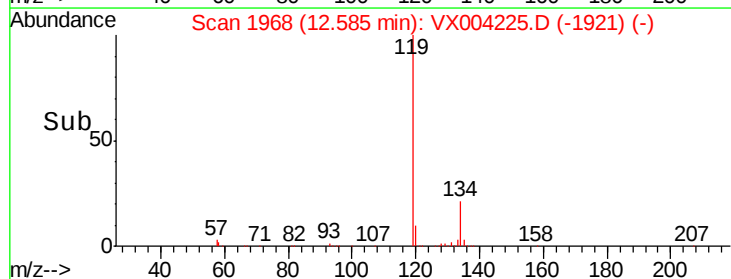
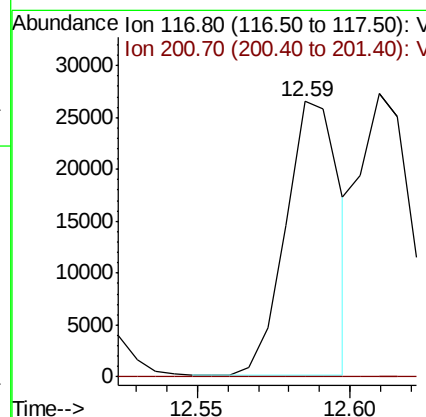
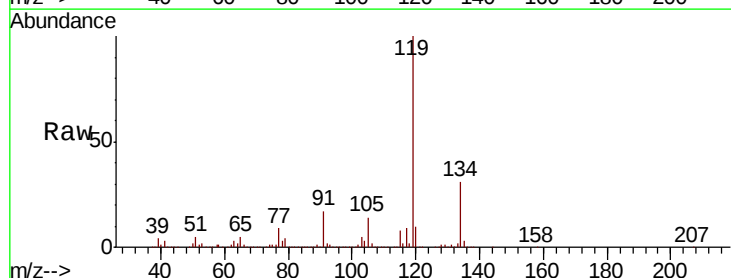
Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0543

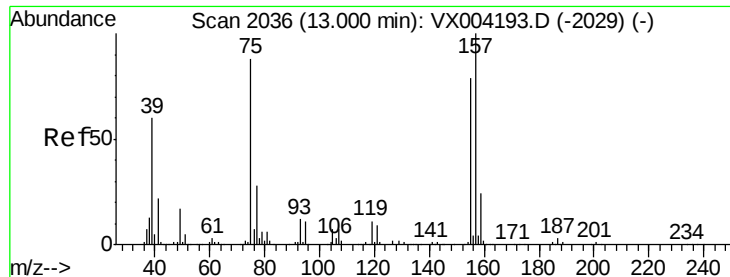
Tot Ion: 91 Resp: 270930  
Ion Ratio Lower Upper  
91 100  
92 34.7 27.3 81.9  
134 113.8 13.6 40.7#



#90  
Hexachloroethane  
Concen: 14.34 ug/l  
RT: 12.59 min Scan# 1968  
Delta R.T. -0.01 min  
Lab File: VX004225.D  
Acq: 23 Aug 2018 14:33

Tgt Ion: 117 Resp: 32651  
Ion Ratio Lower Upper  
117 100  
201 0.1 46.9 140.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.05 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

FL-0543

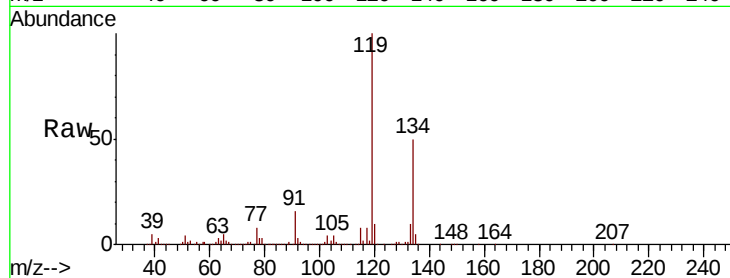
Tot Ion: 75 Resp: 2320

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.2#

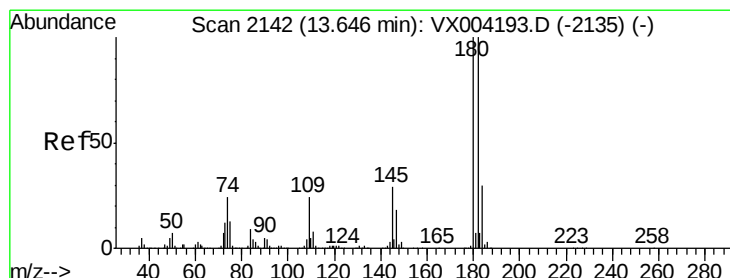
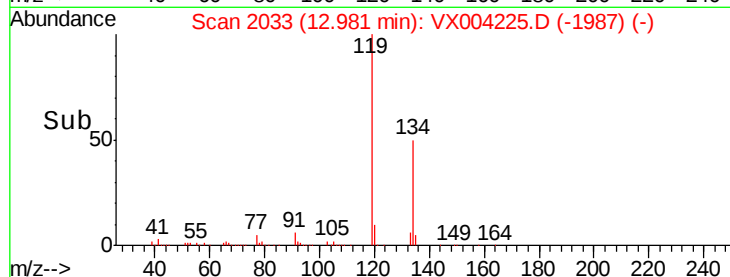
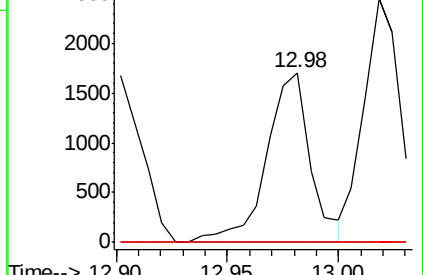
157 0.0 61.4 184.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.28 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

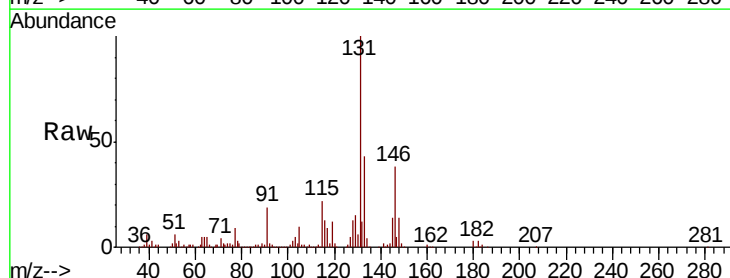
Tgt Ion:180 Resp: 1775

Ion Ratio Lower Upper

180 100

182 91.2 48.4 145.0

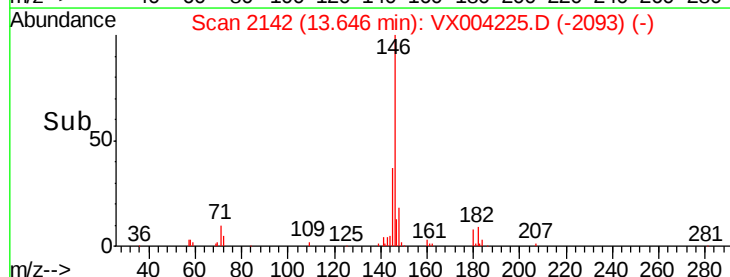
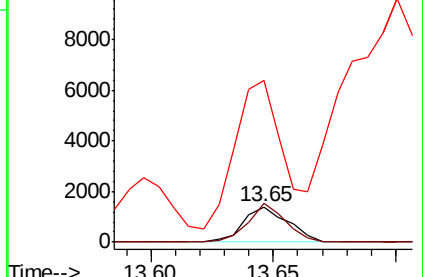
145 493.5 14.3 42.9#

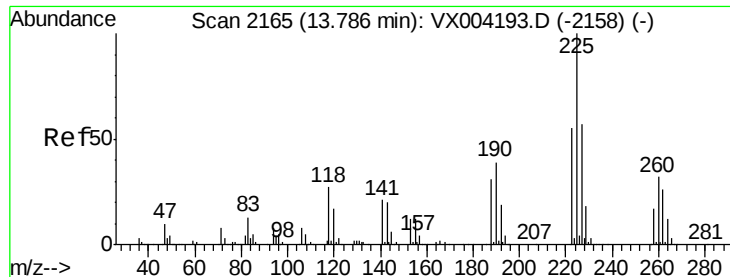


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

Instrument :

MSVOA\_X

ClientSampleId :

FL-0543

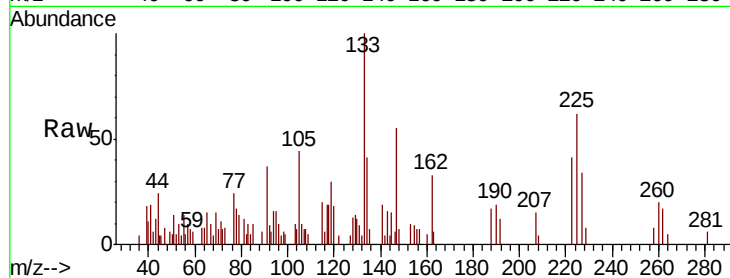
Tot Ion:225 Resp: 1123

Ion Ratio Lower Upper

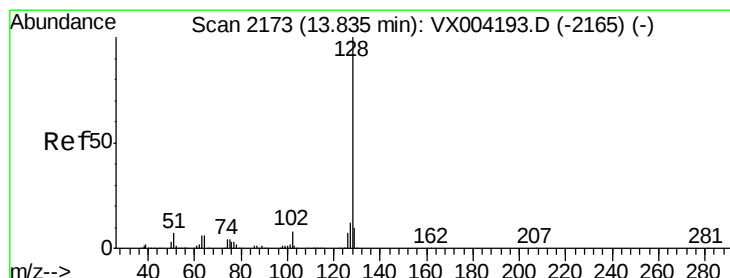
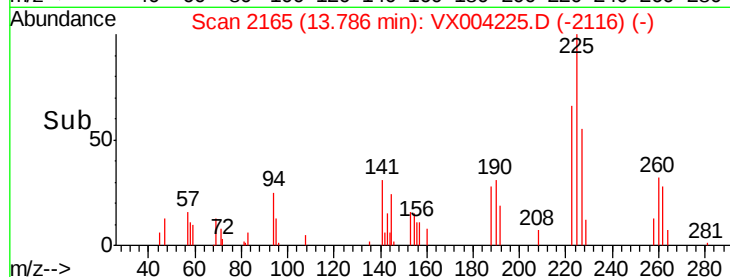
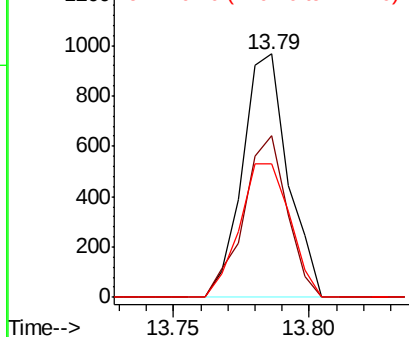
225 100

223 63.1 30.1 90.5

227 60.9 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 84.28 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004225.D

Acq: 23 Aug 2018 14:33

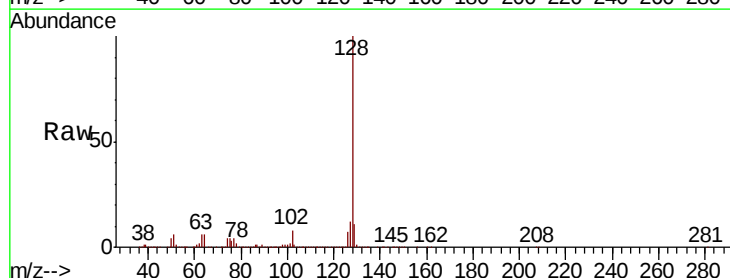
Tgt Ion:128 Resp: 1538508

Ion Ratio Lower Upper

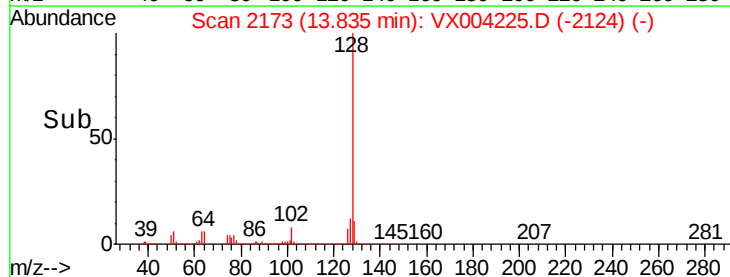
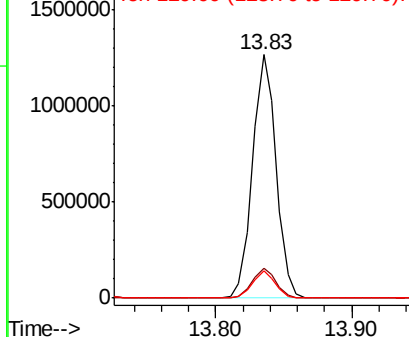
128 100

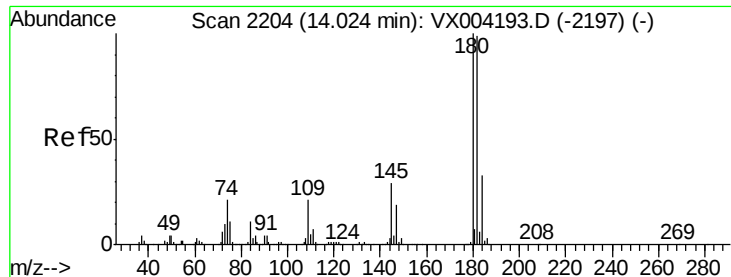
127 12.4 10.2 15.2

129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.23 ug/l  
 RT: 14.02 min Scan# 2203  
 Delta R.T. -0.01 min  
 Lab File: VX004225.D  
 Acq: 23 Aug 2018 14:33

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0543

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 88.9  | 48.5  | 145.6 |
| 145     | 630.0 | 14.9  | 44.9# |

