

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072618\  
 Data File : VX003676.D  
 Acq On : 26 Jul 2018 17:58  
 Operator : JC/SP  
 Sample : J4069-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LCTB03-180718

Quant Time: Jul 27 05:36:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 27 02:16:51 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 78310    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 124212   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 116560   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 60442    | 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   | 68162    | 58.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.52% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 55194    | 54.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.72% |          |
| 50) Toluene-d8              | 8.72  | 98   | 201499   | 52.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.00% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 66717    | 47.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.40%  |          |

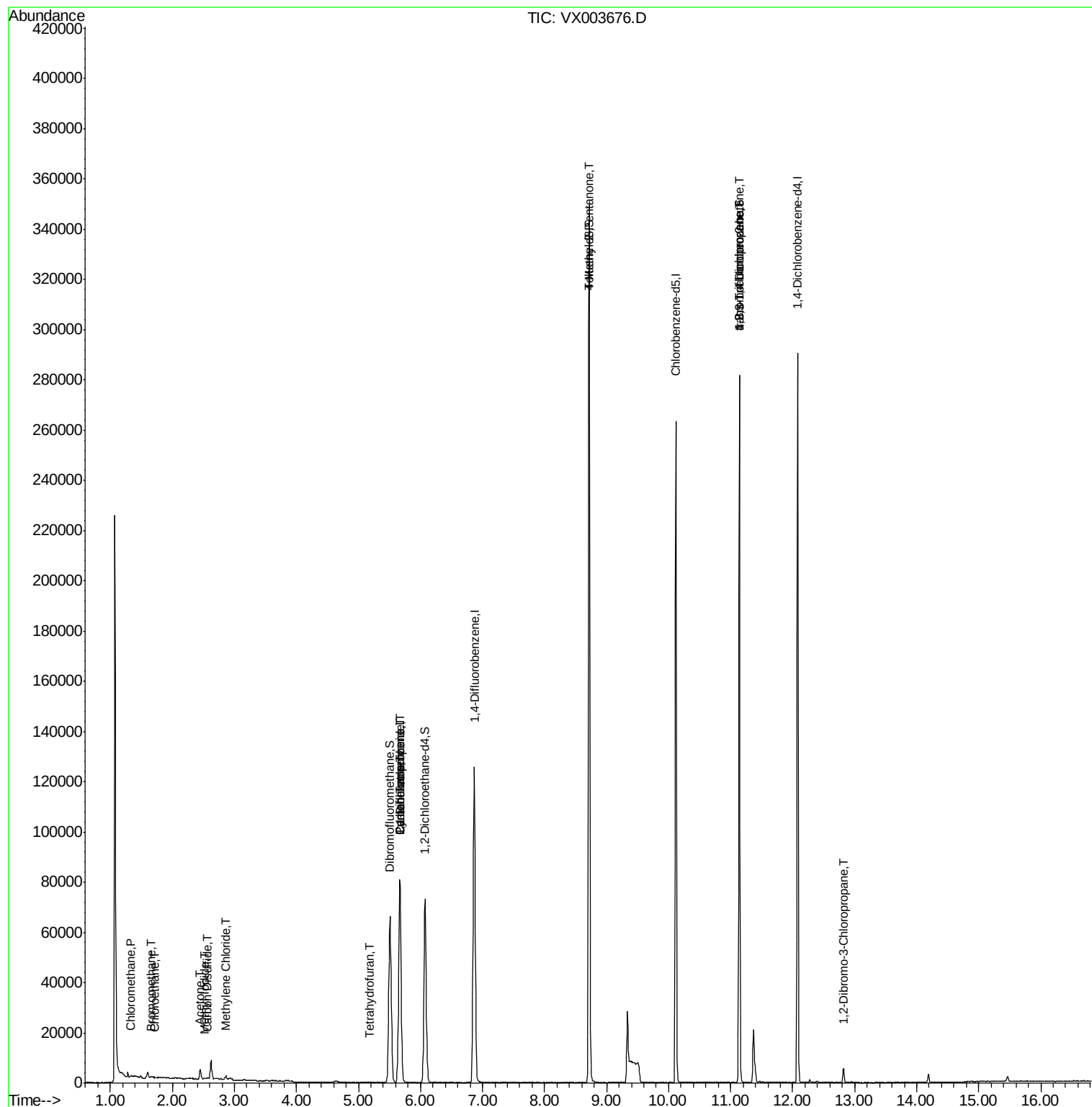
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 516      | 0.44  | ug/l   | 97     |
| 5) Bromomethane                | 1.65  | 94   | 207      | 0.36  | ug/l # | 59     |
| 6) Chloroethane                | 1.71  | 64   | 1851     | 3.84  | ug/l # | 42     |
| 10) Methyl Iodide              | 2.51  | 142  | 110      | 3.25  | ug/l # | 41     |
| 16) Acetone                    | 2.45  | 43   | 4064     | 7.46  | ug/l   | 98     |
| 17) Carbon Disulfide           | 2.57  | 76   | 613      | 0.24  | ug/l # | 75     |
| 20) Methylene Chloride         | 2.86  | 84   | 635      | 0.59  | ug/l # | 87     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 237      | 0.43  | ug/l # | 35     |
| 31) Cyclohexane                | 5.67  | 56   | 1651     | 1.06  | ug/l # | 9      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 5893     | 4.06  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 7462     | 5.33  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 8.72  | 43   | 943      | 0.55  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 34264    | 27.03 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 34264    | 83.74 | ug/l # | 11     |
| 92) 1,2-Dibromo-3-Chloropropan | 12.82 | 75   | 162      | 0.51  | ug/l # | 1      |

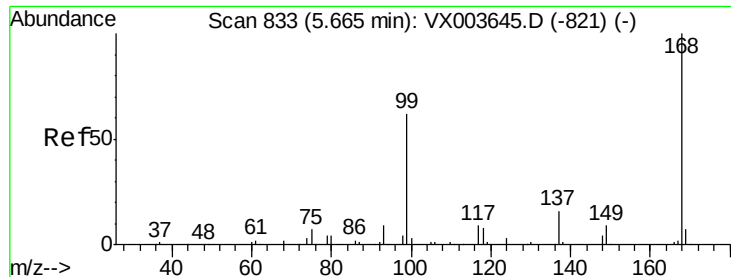
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 05:36:41 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X072418W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 27 02:16:51 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

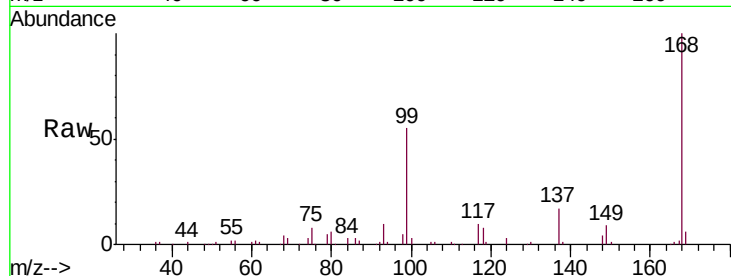
LCTB03-180718

Tot Ion:168 Resp: 78310

Ion Ratio Lower Upper

168 100

99 55.0 49.5 74.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

30000

25000

20000

15000

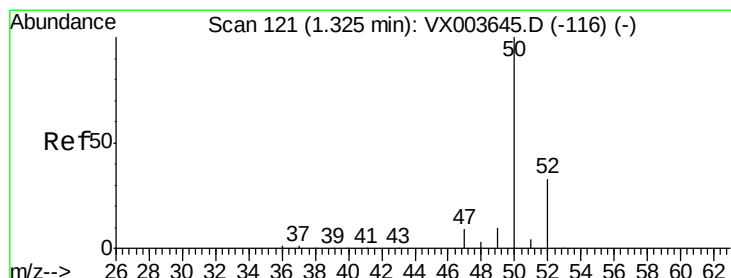
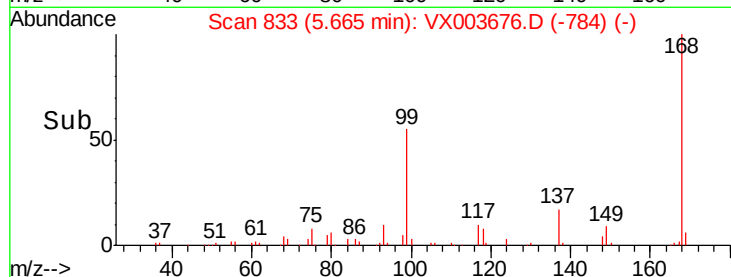
10000

5000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003676.D

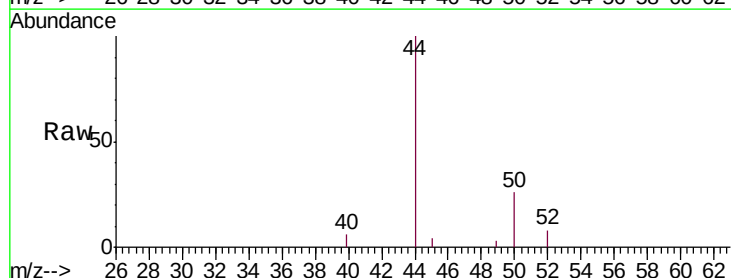
Acq: 26 Jul 2018 17:58

Tgt Ion: 50 Resp: 516

Ion Ratio Lower Upper

50 100

52 31.1 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

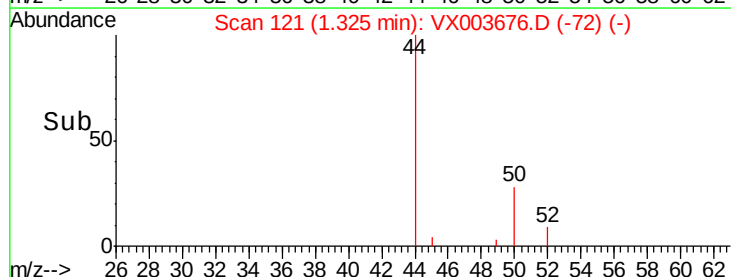
200

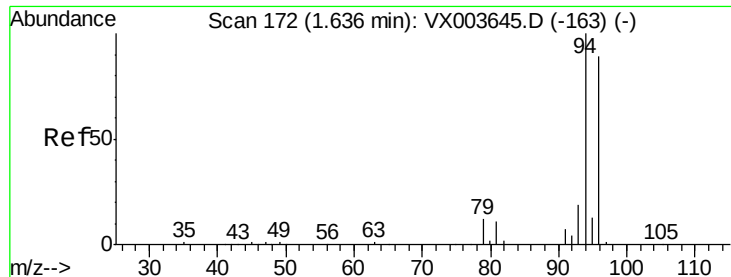
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.36 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

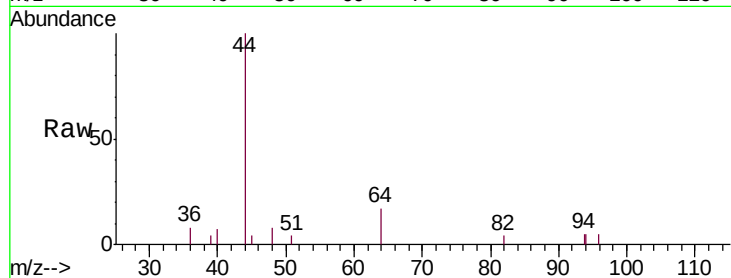
LCTB03-180718

Tot Ion: 94 Resp: 207

Ion Ratio Lower Upper

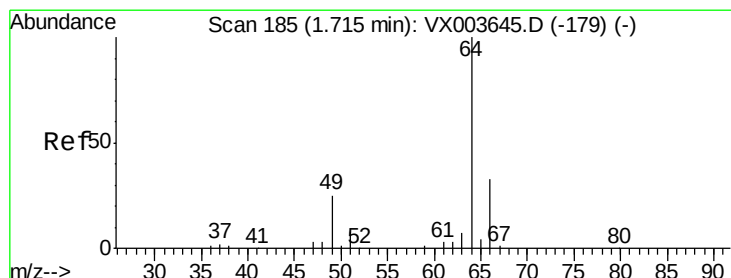
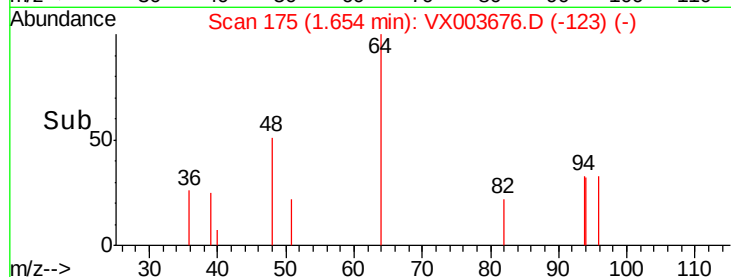
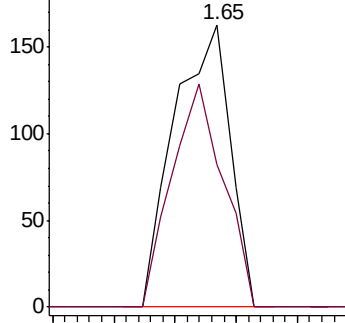
94 100

96 50.3 71.3 106.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.84 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003676.D

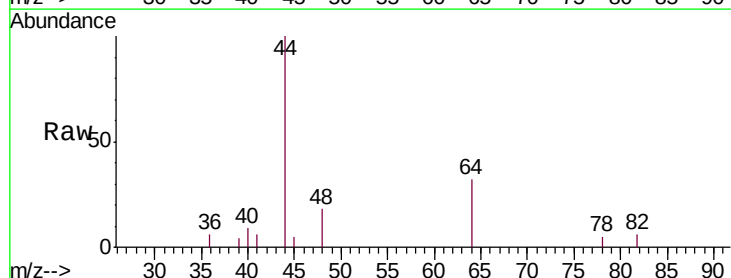
Acq: 26 Jul 2018 17:58

Tgt Ion: 64 Resp: 1851

Ion Ratio Lower Upper

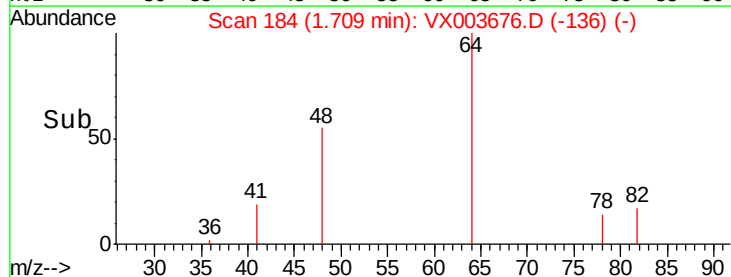
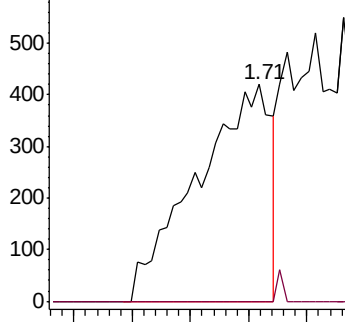
64 100

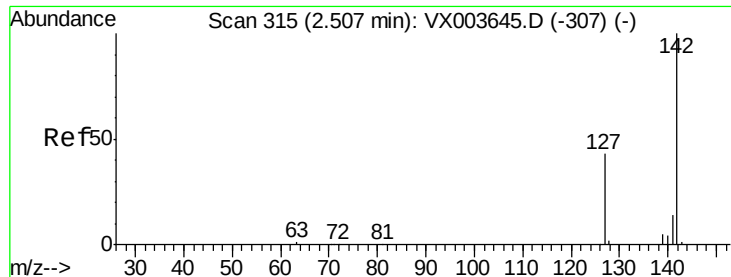
66 0.0 26.3 39.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

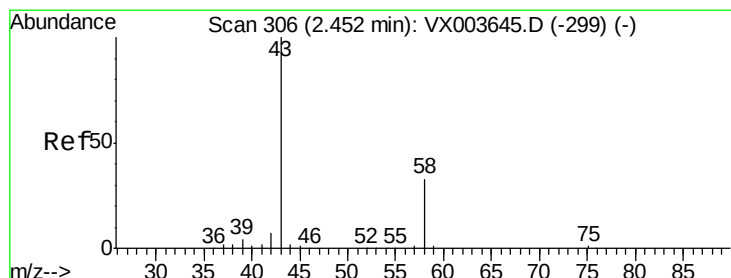
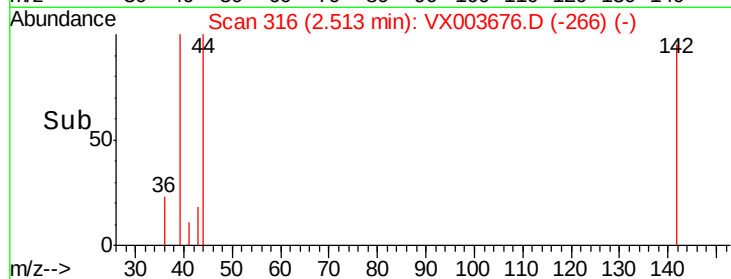
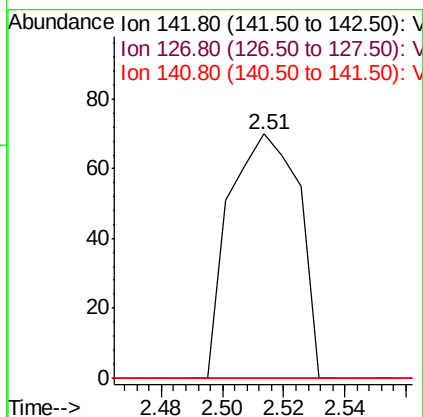
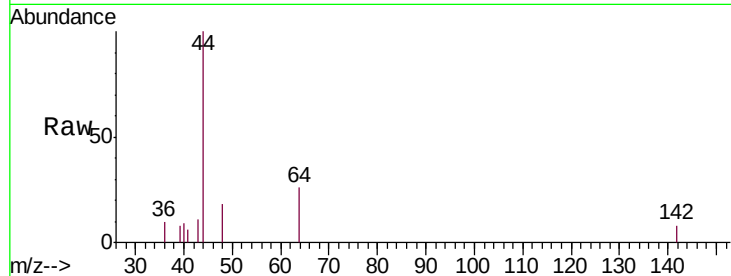




#10  
Methvl Iodide  
Concen: 3.25 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.01 min  
Lab File: VX003676.D  
Acq: 26 Jul 2018 17:58

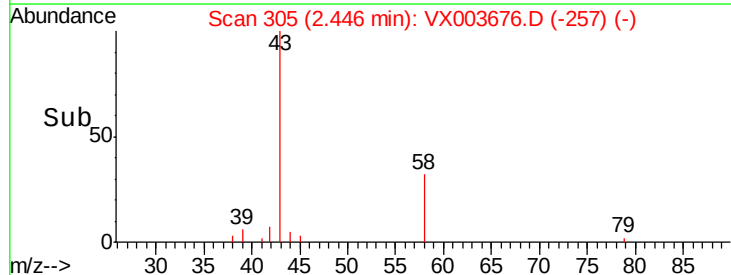
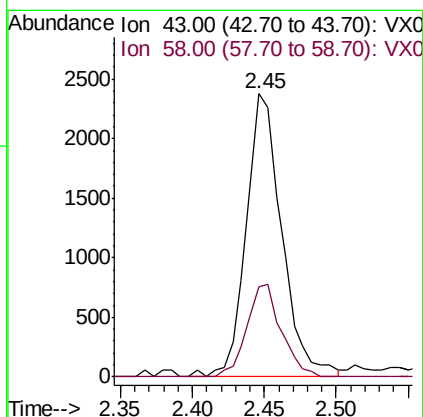
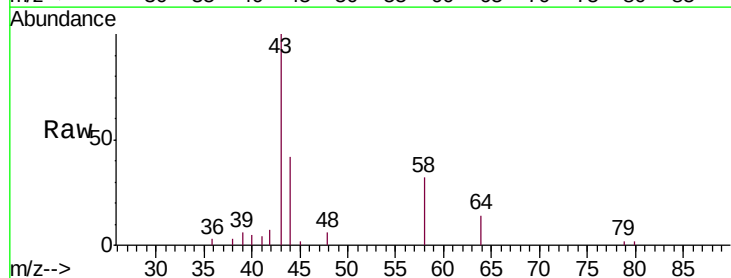
Instrument :  
MSVOA\_X  
ClientSampleId :  
LCTB03-180718

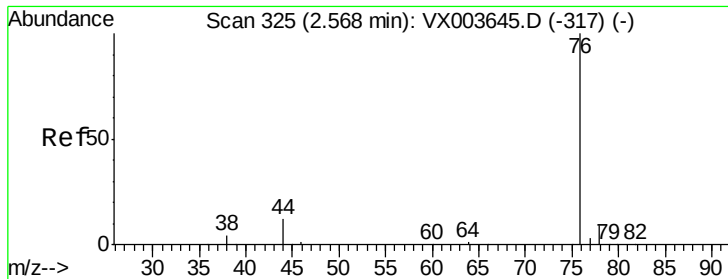
Tot Ion:142 Resp: 110  
Ion Ratio Lower Upper  
142 100  
127 0.0 34.0 51.0#  
141 0.0 11.3 16.9#



#16  
Acetone  
Concen: 7.46 ug/l  
RT: 2.45 min Scan# 305  
Delta R.T. -0.01 min  
Lab File: VX003676.D  
Acq: 26 Jul 2018 17:58

Tgt Ion: 43 Resp: 4064  
Ion Ratio Lower Upper  
43 100  
58 31.6 26.1 39.1





#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

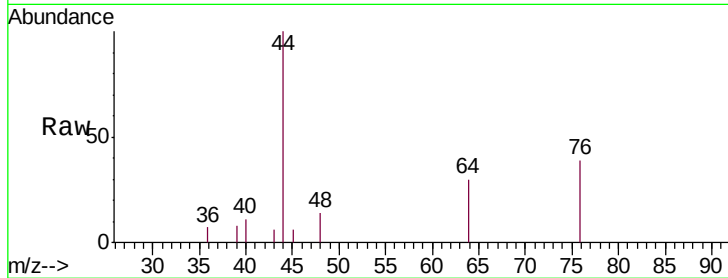
LCTB03-180718

Tot Ion: 76 Resp: 613

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

200

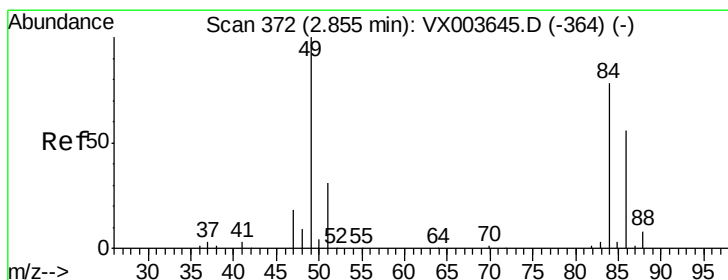
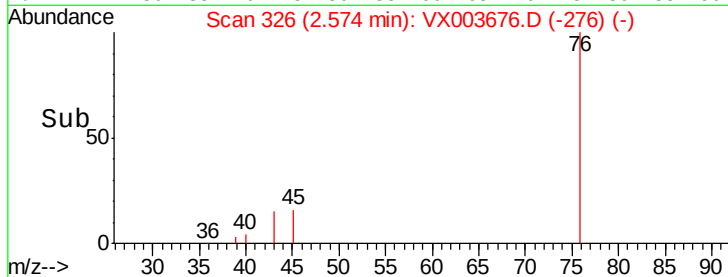
100

0

2.55

2.60

Time-->



#20

Methylene Chloride

Concen: 0.59 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Tgt Ion: 84 Resp: 635

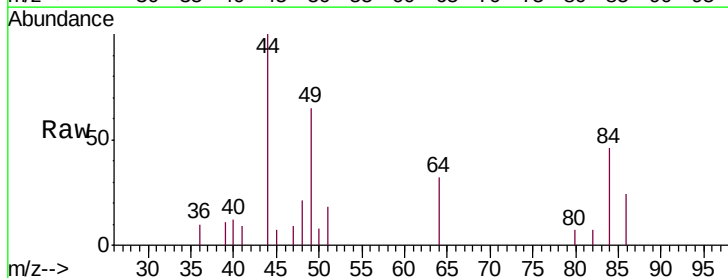
Ion Ratio Lower Upper

84 100

49 140.8 102.3 153.5

51 39.7 31.8 47.8

86 51.2 57.4 86.2#



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

800

600

400

200

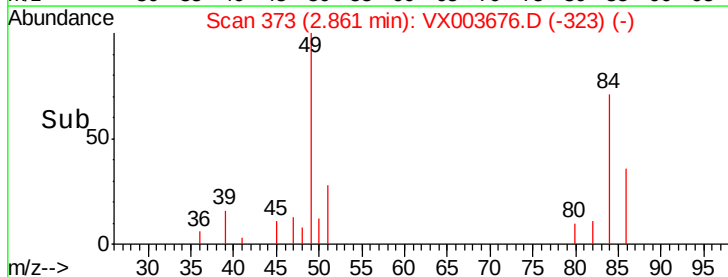
0

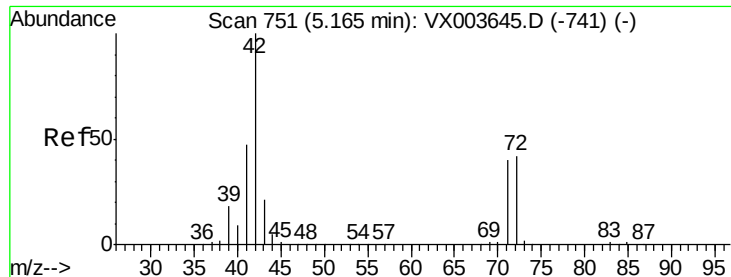
2.80

2.85

2.90

Time-->





#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

LCTB03-180718

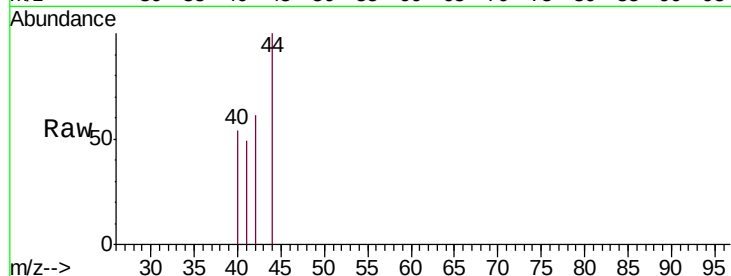
Tot Ion: 42 Resp: 237

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

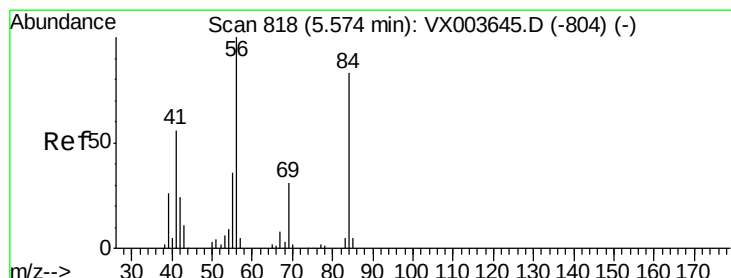
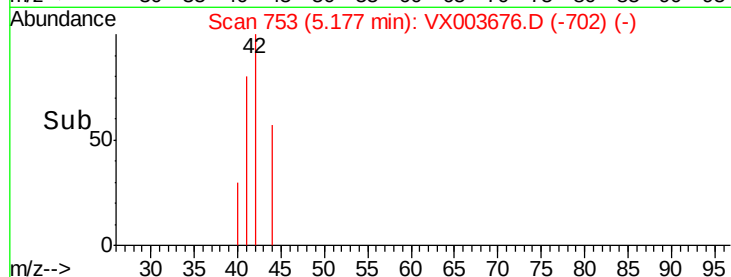
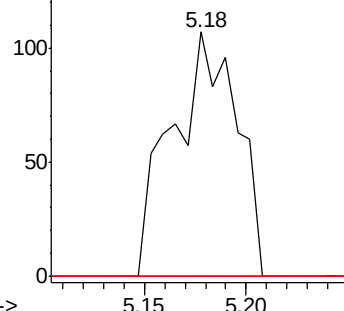
71 0.0 31.0 46.6#



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



#31

Cyclohexane

Concen: 1.06 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

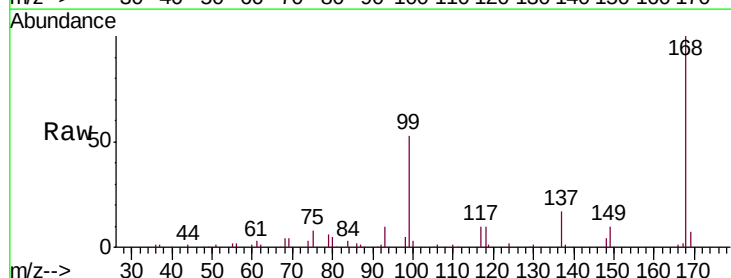
Tgt Ion: 56 Resp: 1651

Ion Ratio Lower Upper

56 100

69 169.4 25.0 37.6#

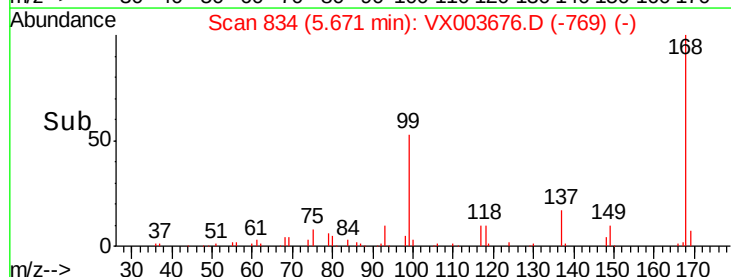
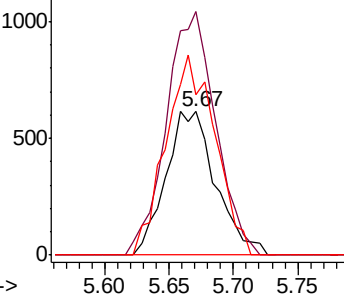
84 111.5 66.5 99.7#

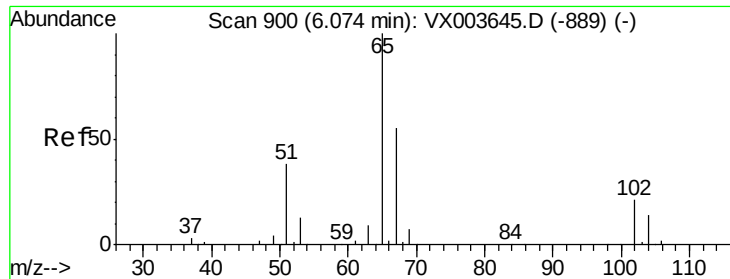


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

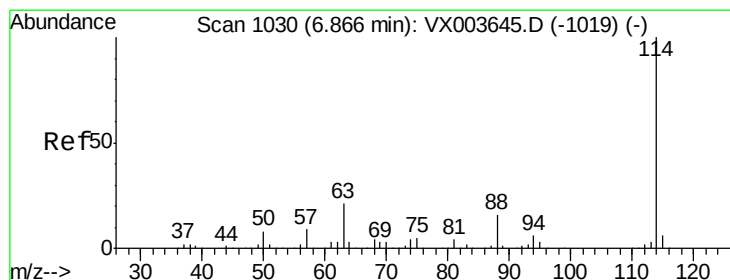
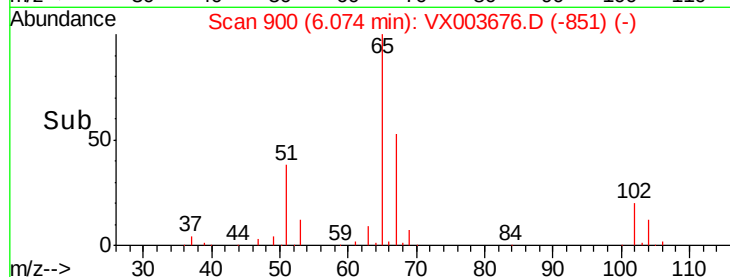
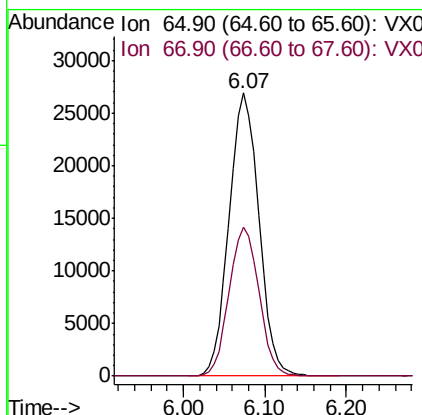
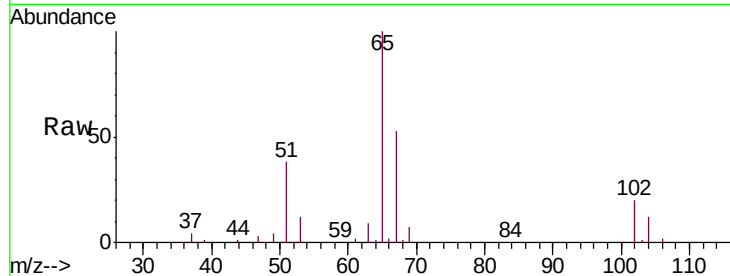




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.76 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. -0.00 min  
 Lab File: VX003676.D  
 Acq: 26 Jul 2018 17:58

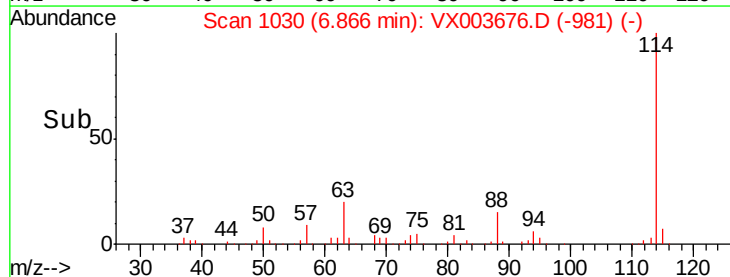
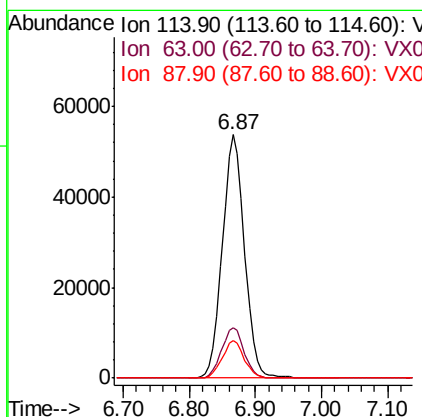
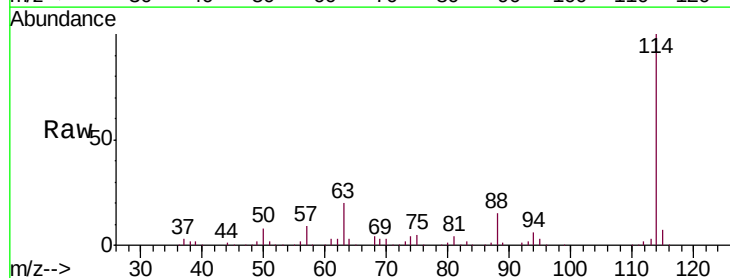
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LCTB03-180718

Tot Ion: 65 Resp: 68162  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 107.8

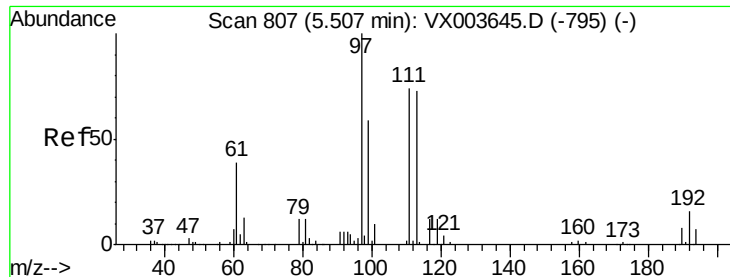


#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX003676.D  
 Acq: 26 Jul 2018 17:58

Tgt Ion: 114 Resp: 124212  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 41.0  
 88 15.3 0.0 31.8







#35

Dibromofluoromethane

Concen: 54.36 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

LCTB03-180718

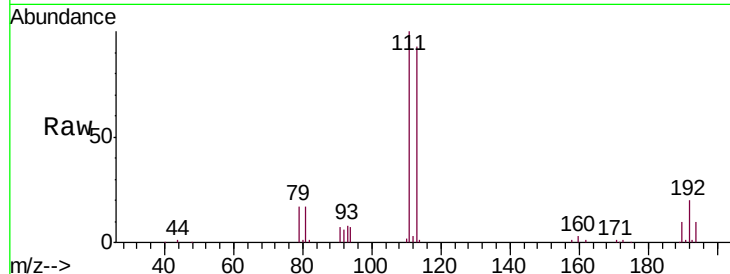
Tot Ion:113 Resp: 55194

Ion Ratio Lower Upper

113 100

111 102.2 81.2 121.8

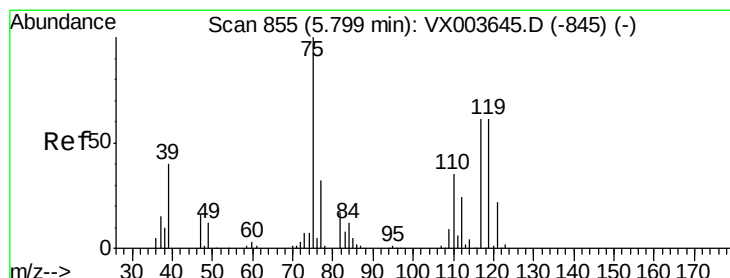
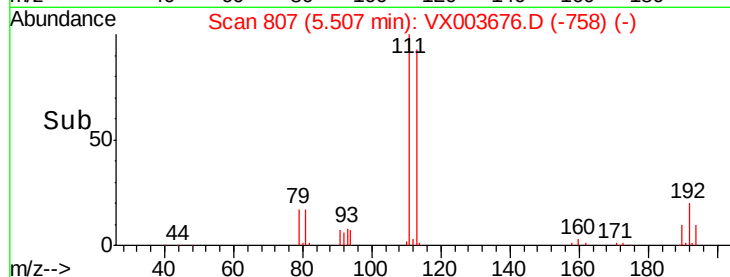
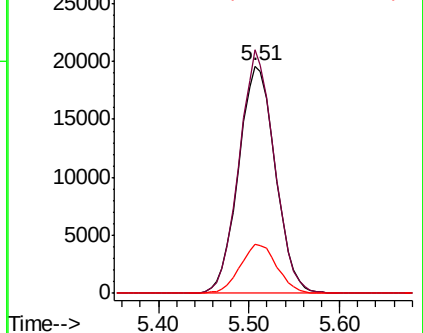
192 21.6 18.2 27.4



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: 4.06 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

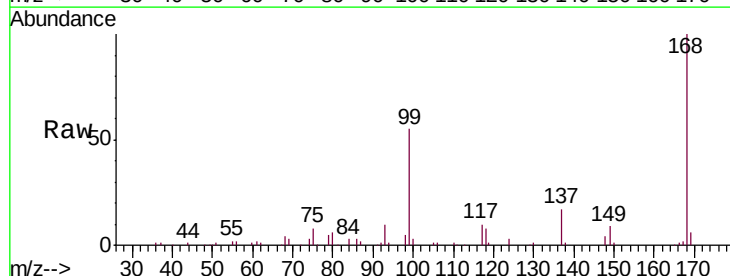
Tgt Ion: 75 Resp: 5893

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

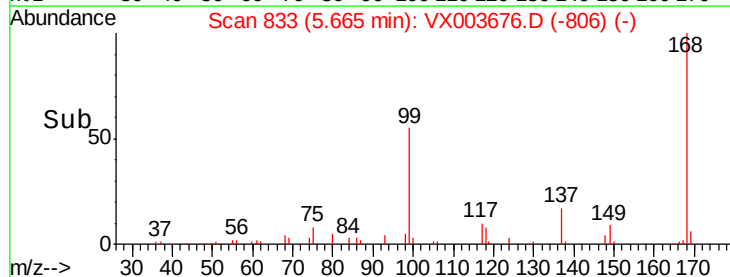
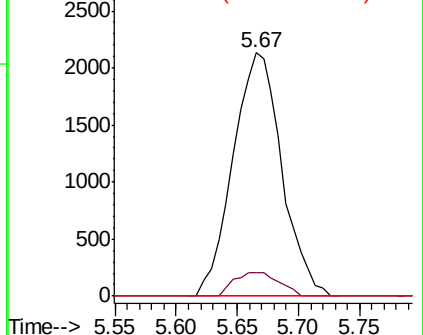
77 0.0 25.1 37.7#

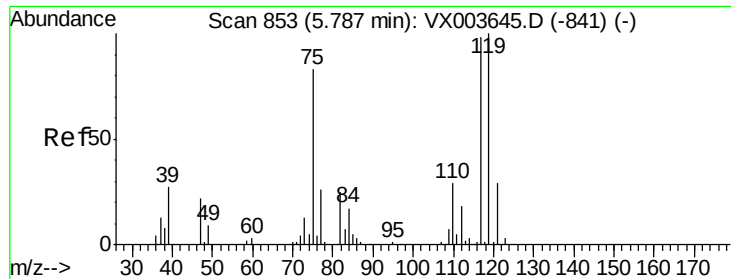


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

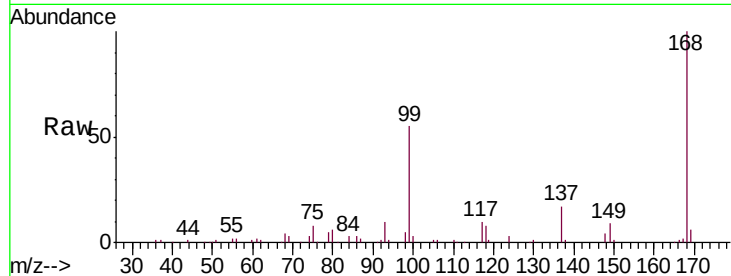




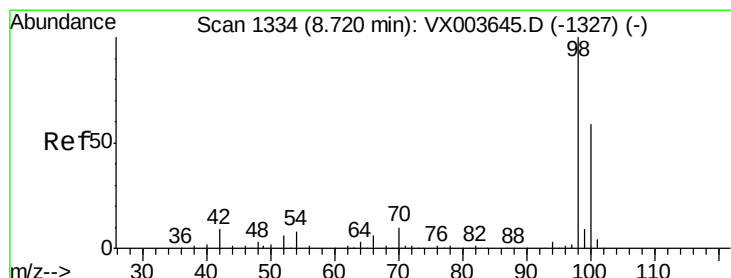
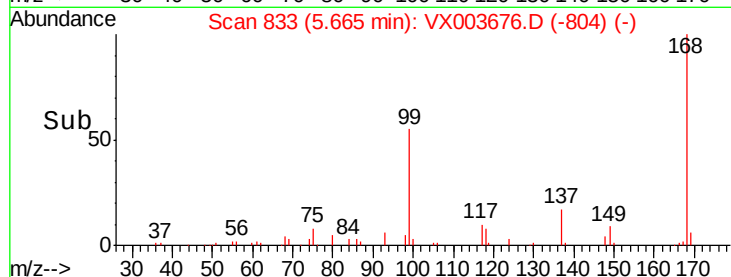
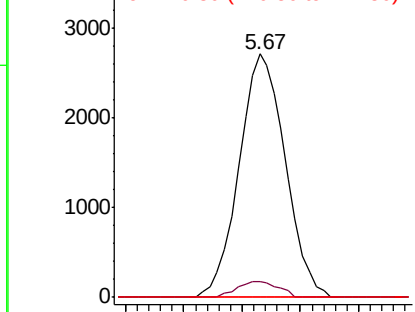
#38  
Carbon Tetrachloride  
Concen: 5.33 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. -0.12 min  
Lab File: VX003676.D  
Acq: 26 Jul 2018 17:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
LCTB03-180718

Tot Ion:117 Resp: 7462  
Ion Ratio Lower Upper  
117 100  
119 6.7 81.0 121.4#  
121 0.0 23.7 35.5#

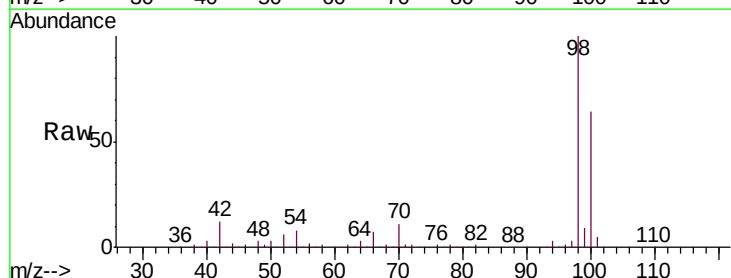


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

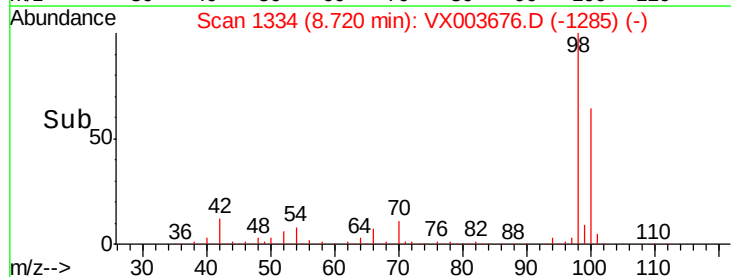
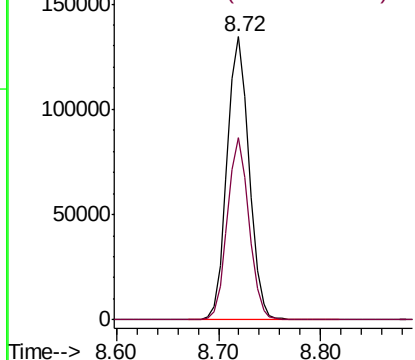


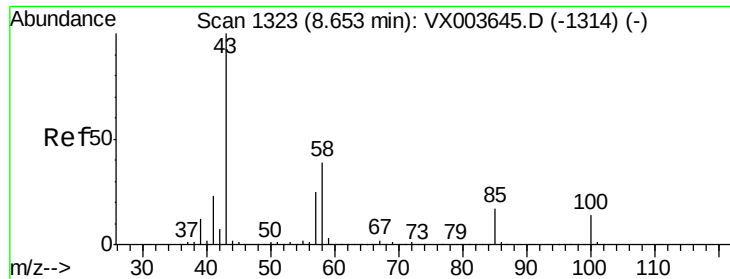
#50  
Toluene-d8  
Concen: 52.00 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX003676.D  
Acq: 26 Jul 2018 17:58

Tgt Ion: 98 Resp: 201499  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.55 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

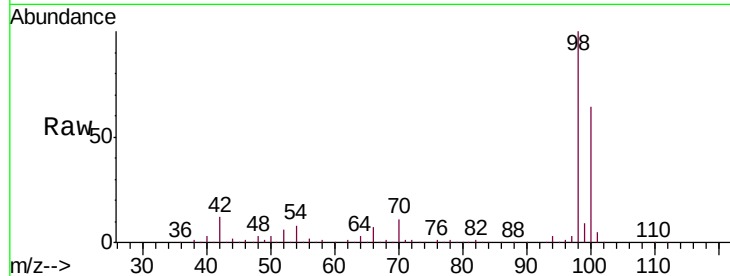
LCTB03-180718

Tot Ion: 43 Resp: 943

Ion Ratio Lower Upper

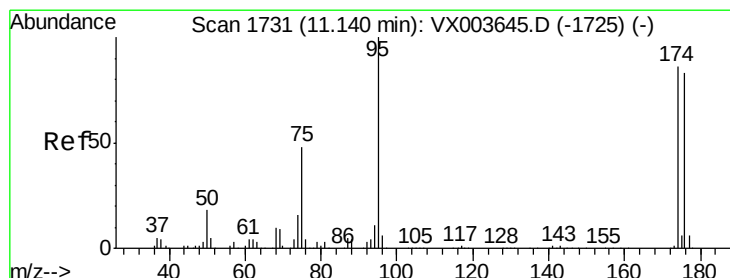
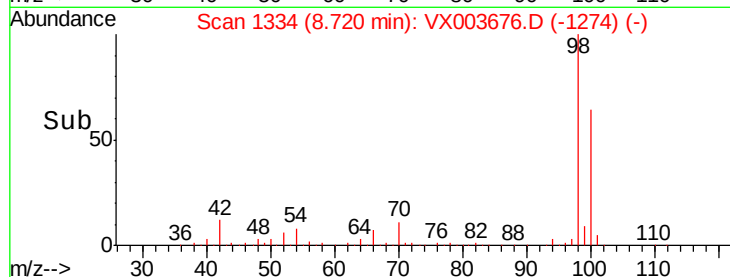
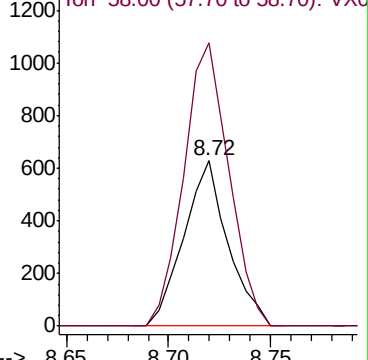
43 100

58 174.7 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

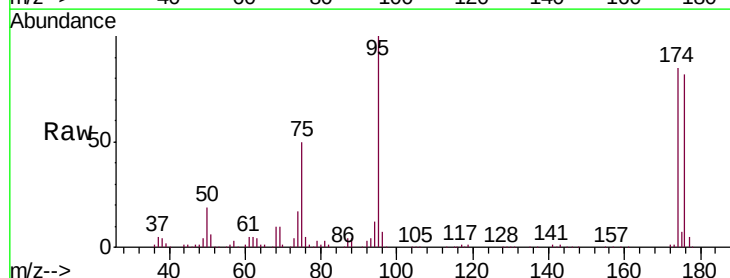
Tgt Ion: 95 Resp: 66717

Ion Ratio Lower Upper

95 100

174 89.0 0.0 179.0

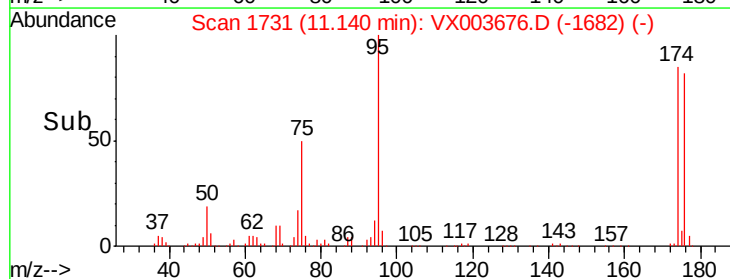
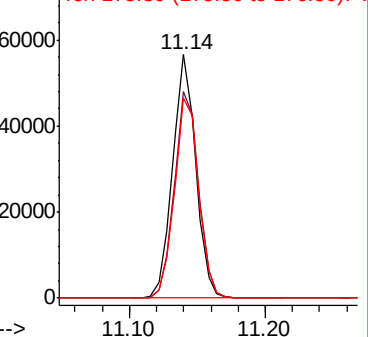
176 86.1 0.0 173.0

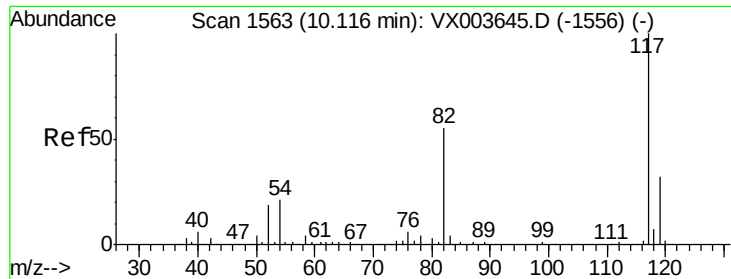


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

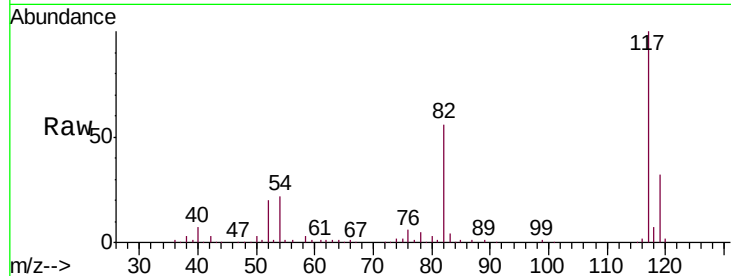




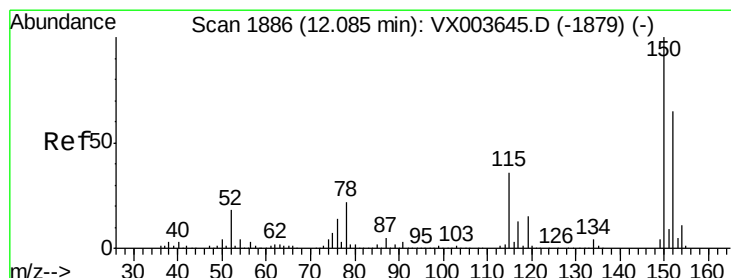
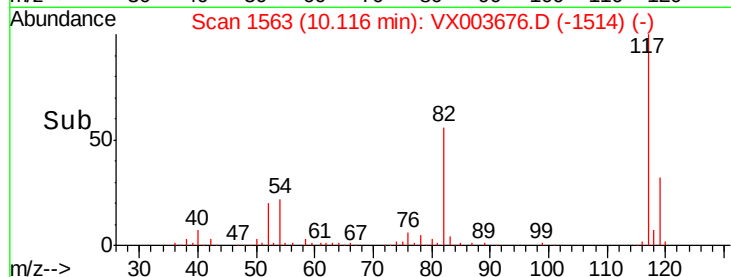
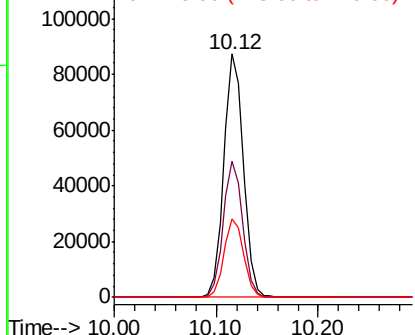
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX003676.D  
Acq: 26 Jul 2018 17:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
LCTB03-180718

Tot Ion:117 Resp: 116560  
Ion Ratio Lower Upper  
117 100  
82 56.0 44.3 66.5  
119 32.3 25.6 38.4

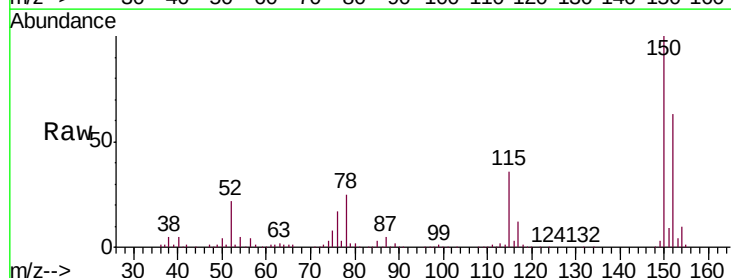


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

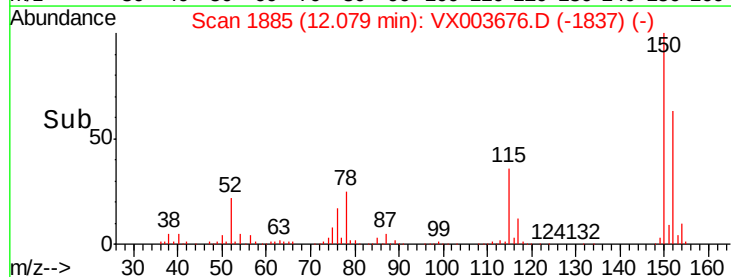
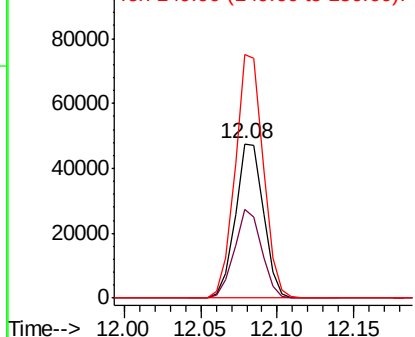


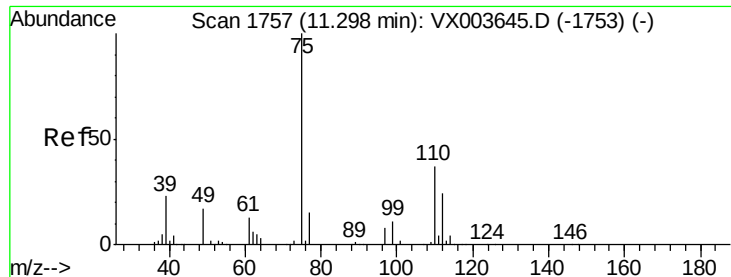
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. -0.01 min  
Lab File: VX003676.D  
Acq: 26 Jul 2018 17:58

Tgt Ion:152 Resp: 60442  
Ion Ratio Lower Upper  
152 100  
115 55.8 40.0 119.9  
150 157.8 0.0 348.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

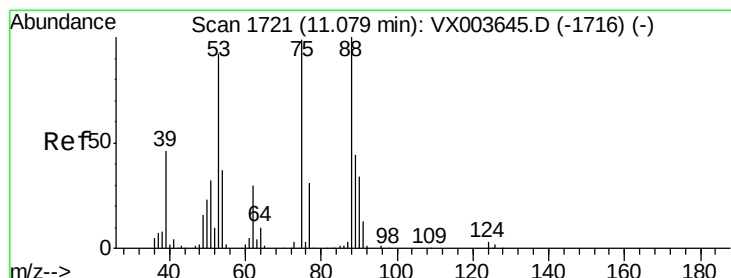
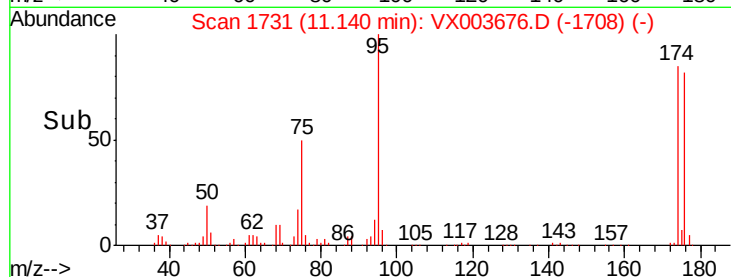
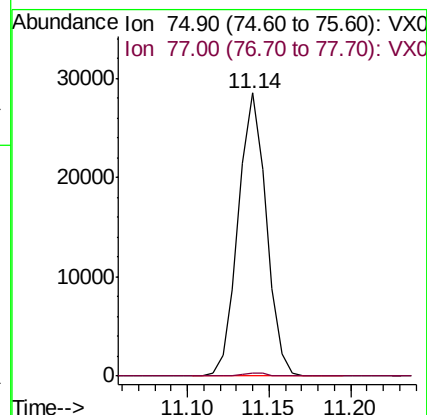
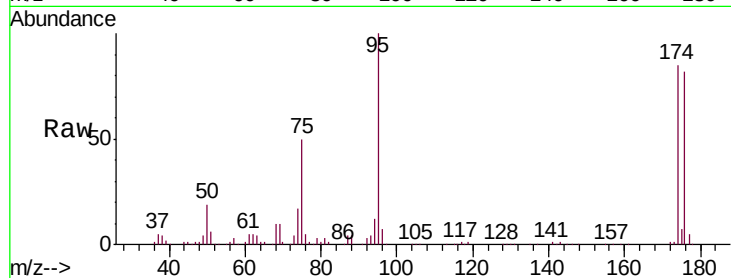
LCTB03-180718

Tot Ion: 75 Resp: 34264

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

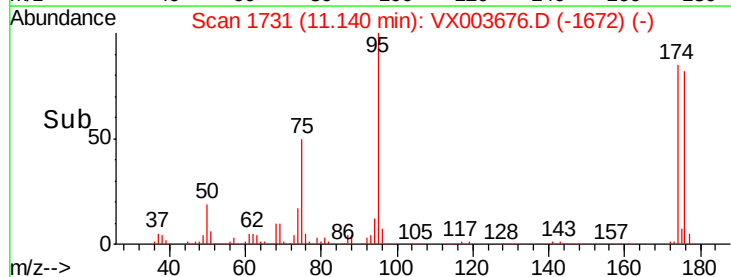
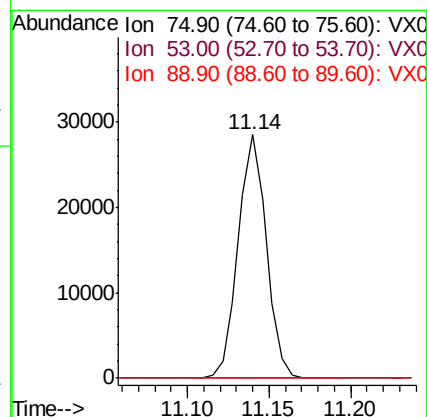
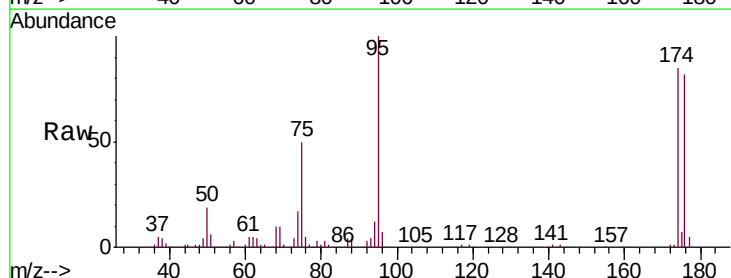
Tgt Ion: 75 Resp: 34264

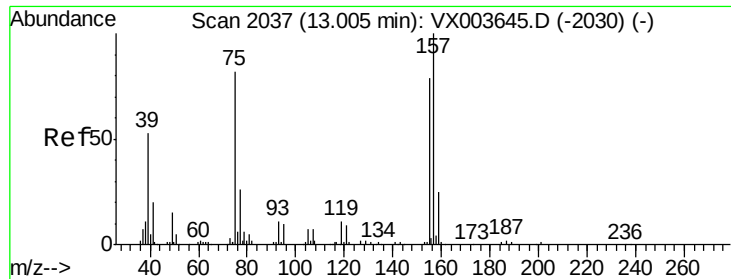
Ion Ratio Lower Upper

75 100

53 0.1 77.8 116.8#

89 0.0 36.6 54.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.51 ug/l

RT: 12.82 min Scan# 2006

Delta R.T. -0.19 min

Lab File: VX003676.D

Acq: 26 Jul 2018 17:58

Instrument :

MSVOA\_X

ClientSampleId :

LCTB03-180718

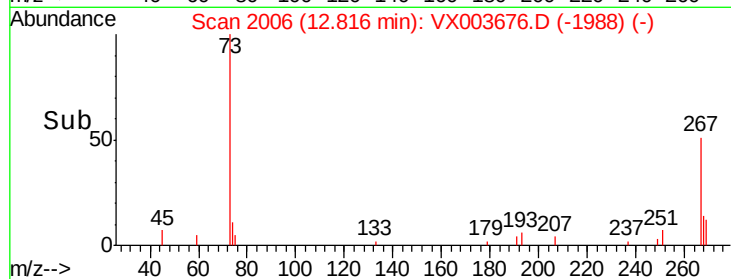
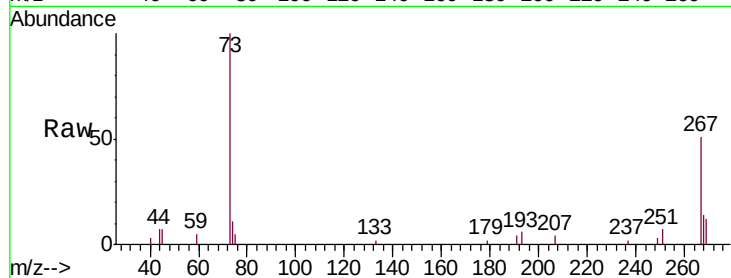
Tot Ion: 75 Resp: 162

Ion Ratio Lower Upper

75 100

155 0.0 46.1 138.3#

157 0.0 59.7 179.0#



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

