

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\  
 Data File : VX003269.D  
 Acq On : 10 Jul 2018 02:44  
 Operator : JC/MD  
 Sample : PB110911ZHE#15  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB110911ZHE#15

Quant Time: Jul 10 03:25:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X070918W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 09 15:24:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 257356   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 354287   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 332265   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 188819   | 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   | 165212   | 40.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.58% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 140793   | 36.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.98% |          |
| 50) Toluene-d8              | 8.72  | 98   | 500707   | 37.04 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.08% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 175197   | 35.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 70.14% |          |

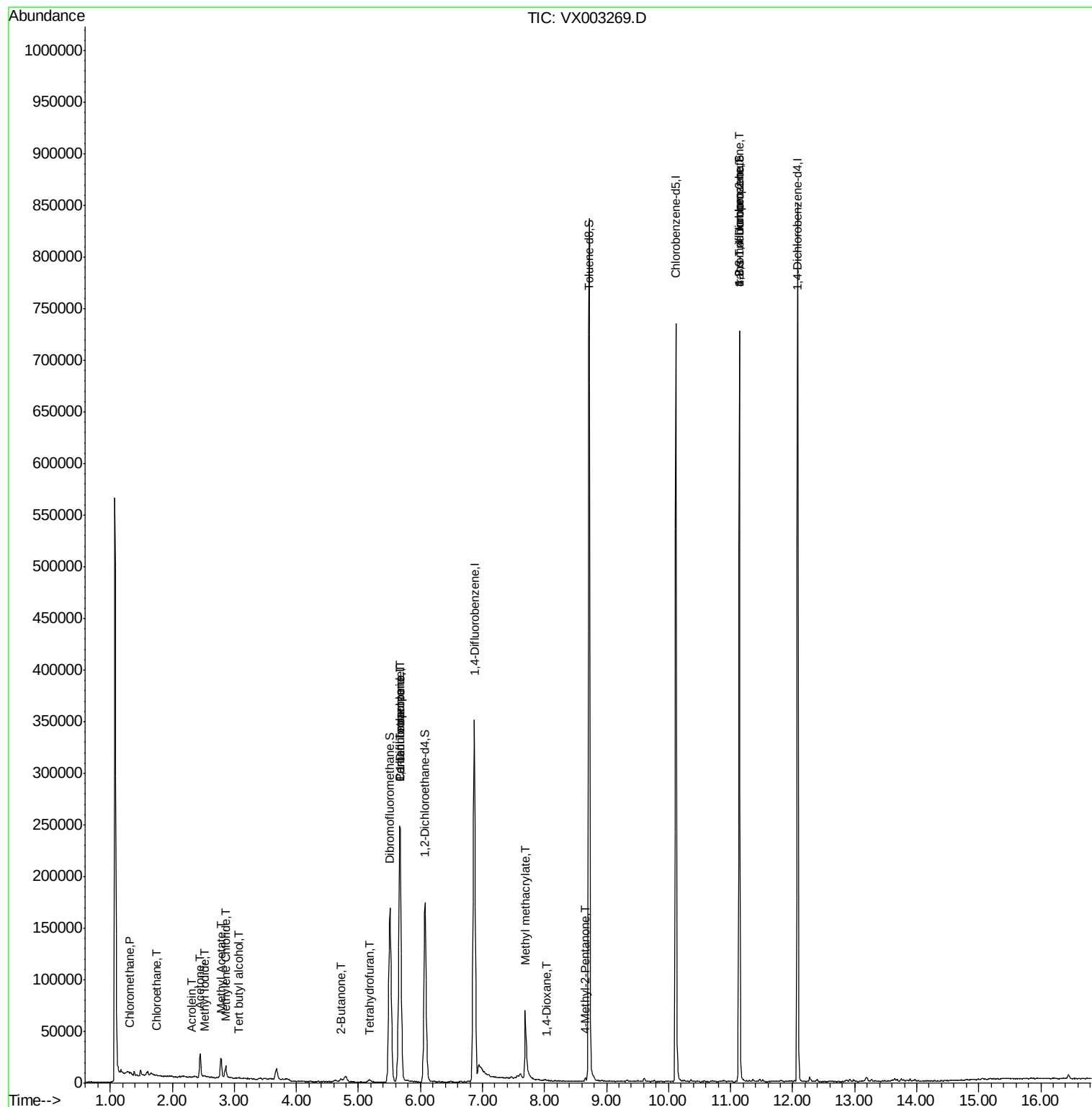
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 894      | 0.25  | ug/l  | # 62   |
| 5) Bromomethane                | 1.66  | 94   | 2163     | Below | Cal   | 83     |
| 6) Chloroethane                | 1.75  | 64   | 437      | 0.22  | ug/l  | # 43   |
| 10) Methyl Iodide              | 2.52  | 142  | 1873     | 6.12  | ug/l  | 95     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 805      | 1.10  | ug/l  | # 62   |
| 13) Acrolein                   | 2.31  | 56   | 432      | 0.73  | ug/l  | # 14   |
| 16) Acetone                    | 2.45  | 43   | 26346    | 18.32 | ug/l  | 99     |
| 18) Methyl Acetate             | 2.78  | 43   | 24675    | 6.08  | ug/l  | 96     |
| 20) Methylene Chloride         | 2.86  | 84   | 5209     | 1.08  | ug/l  | 98     |
| 25) 2-Butanone                 | 4.71  | 43   | 5109     | 2.01  | ug/l  | 91     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 2126     | 1.29  | ug/l  | 94     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16412    | 3.27  | ug/l  | # 51   |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 22160    | 4.04  | ug/l  | # 16   |
| 48) Methyl methacrylate        | 7.69  | 41   | 2145     | 0.48  | ug/l  | # 23   |
| 49) 1,4-Dioxane                | 8.03  | 88   | 20       | 0.22  | ug/l  | # 22   |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 1871     | 0.35  | ug/l  | 91     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 85690    | 21.00 | ug/l  | # 33   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 85690    | 68.63 | ug/l  | # 7    |

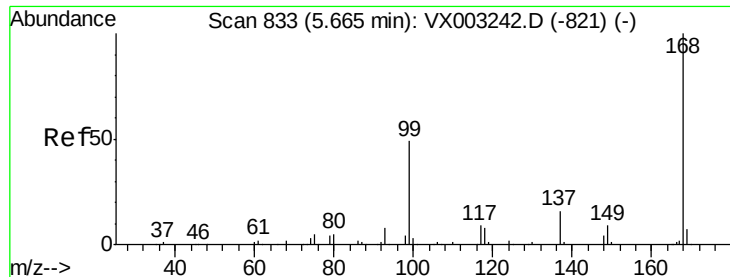
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070918\  
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ALS Vial : 34 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Time: Jul 10 03:25:16 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X070918W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 09 15:24:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

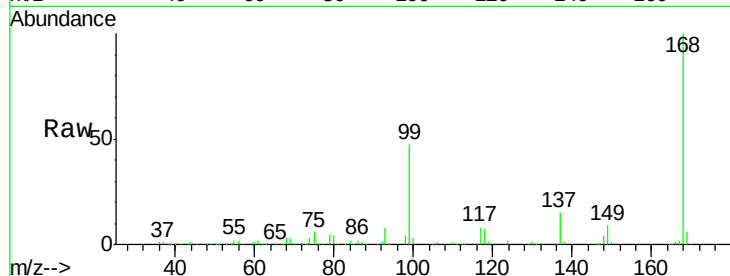
PB110911ZHE#15

Tot Ion:168 Resp: 257356

Ion Ratio Lower Upper

168 100

99 47.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

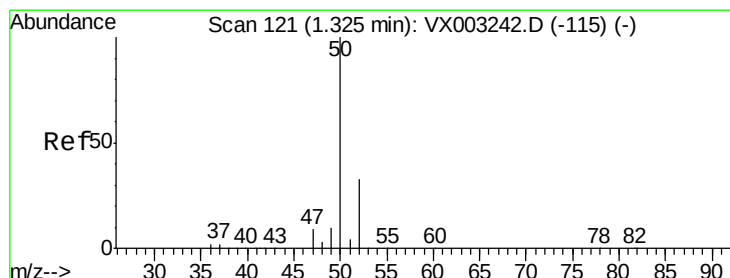
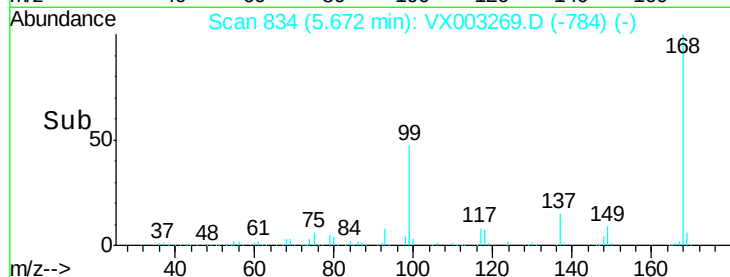
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003269.D

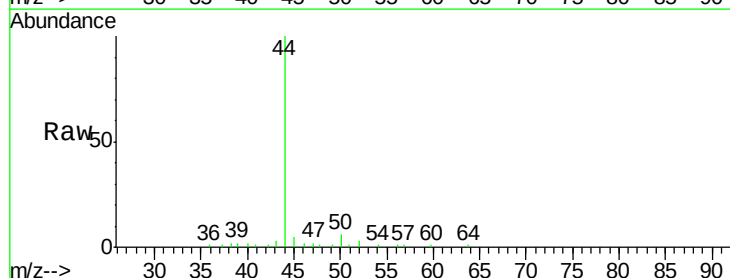
Acq: 10 Jul 2018 02:44

Tgt Ion: 50 Resp: 894

Ion Ratio Lower Upper

50 100

52 53.6 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

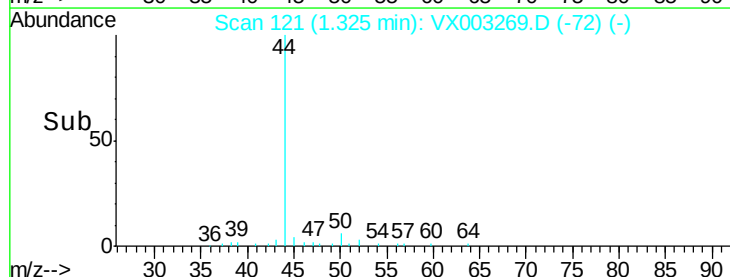
300

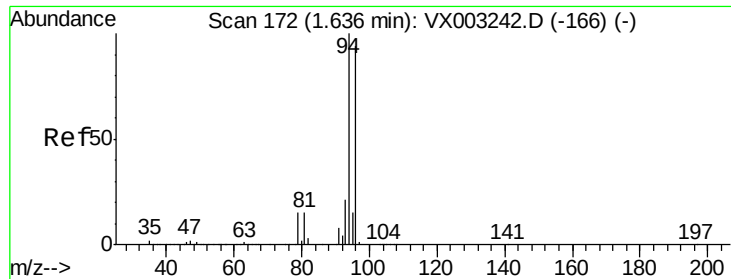
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

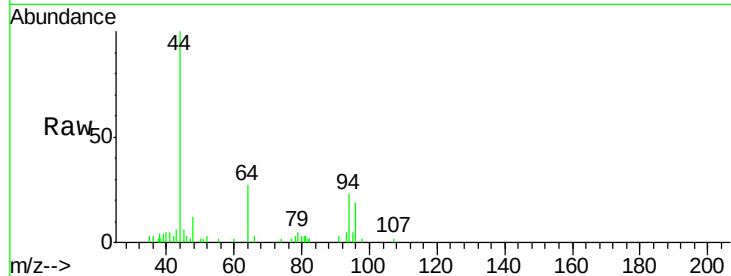
PB110911ZHE#15

Tot Ion: 94 Resp: 2163

Ion Ratio Lower Upper

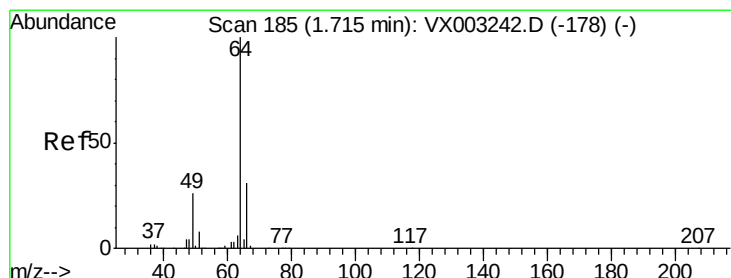
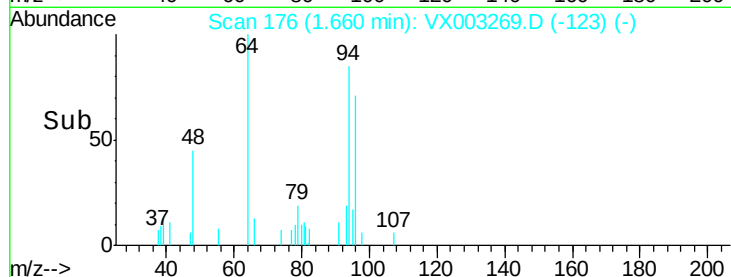
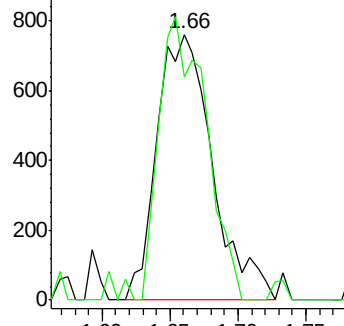
94 100

96 76.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.22 ug/l

RT: 1.75 min Scan# 190

Delta R.T. 0.04 min

Lab File: VX003269.D

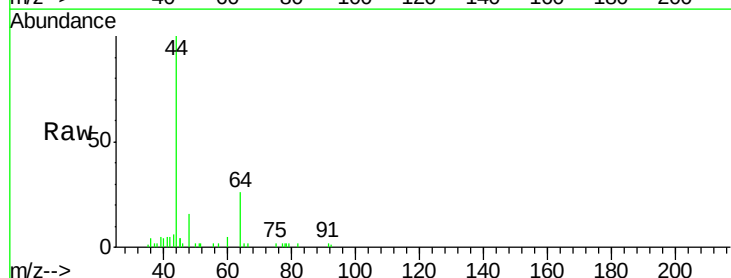
Acq: 10 Jul 2018 02:44

Tgt Ion: 64 Resp: 437

Ion Ratio Lower Upper

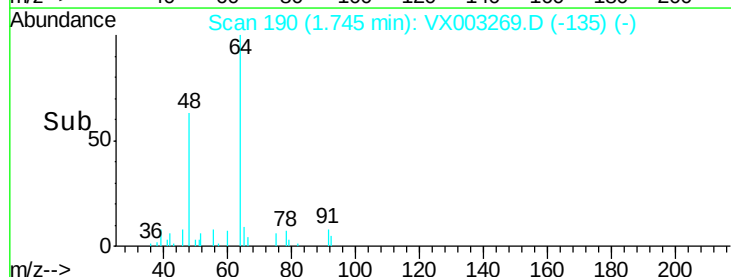
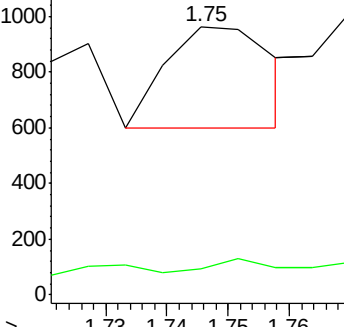
64 100

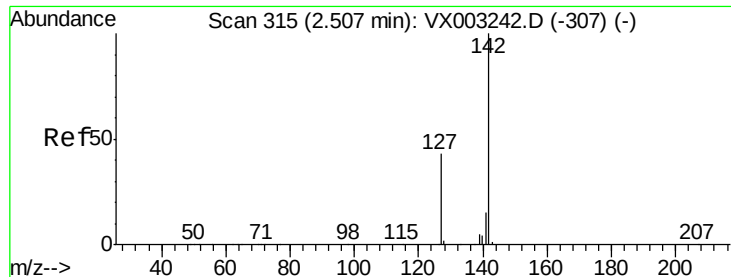
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

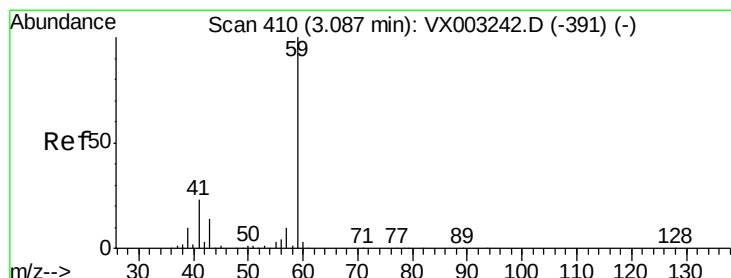
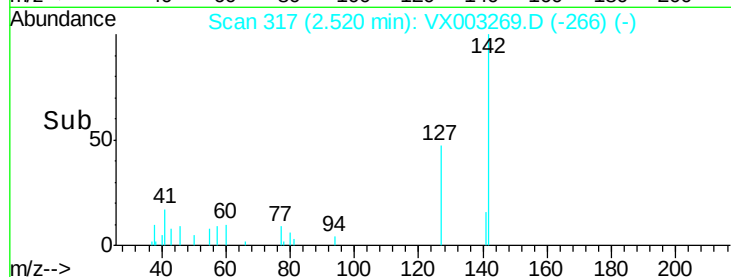
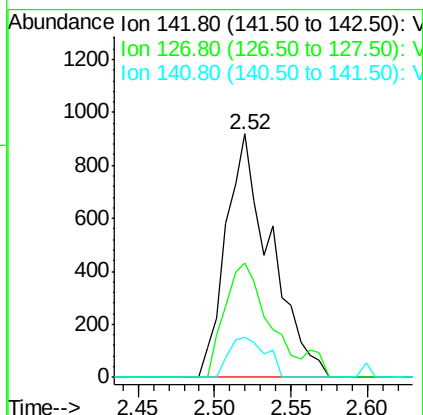
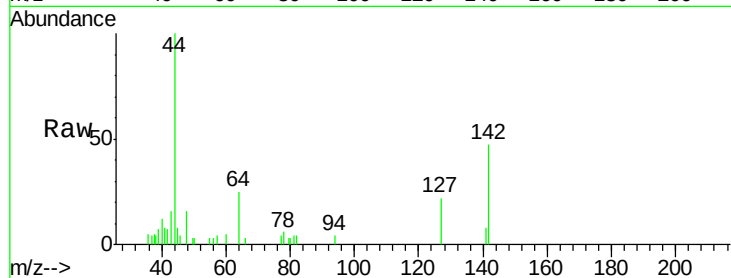




#10  
Methyl Iodide  
Concen: 6.12 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX003269.D  
Acq: 10 Jul 2018 02:44

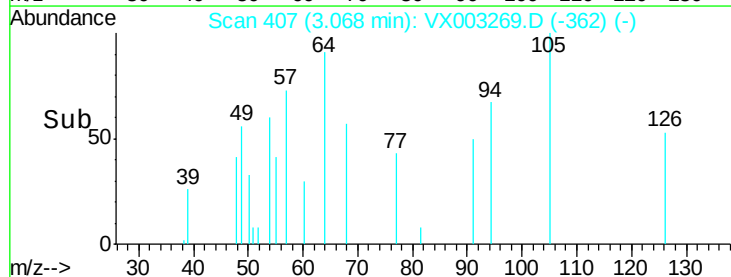
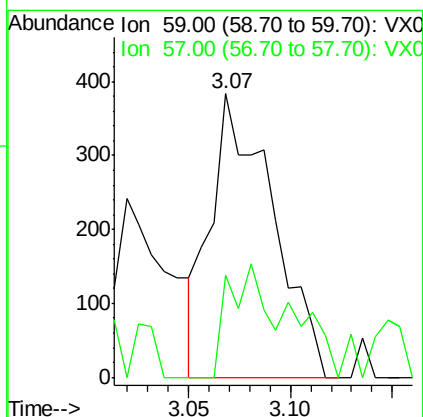
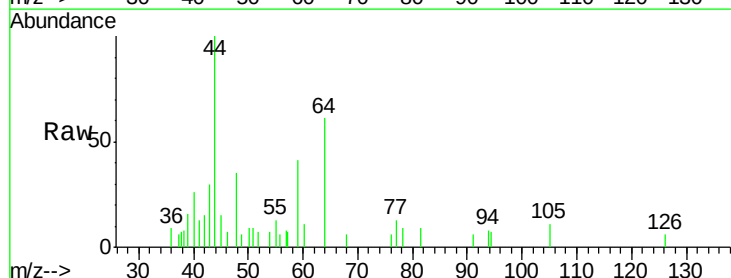
Instrument :  
MSVOA\_X  
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PB110911ZHE#15

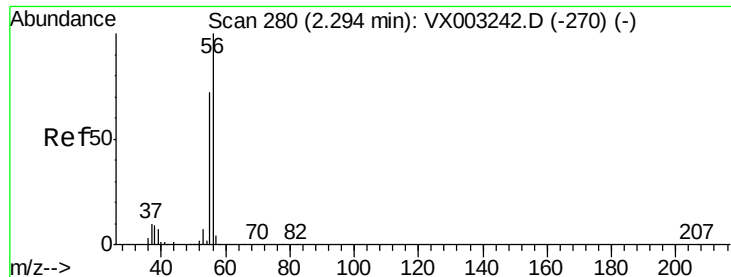
Tot Ion:142 Resp: 1873  
Ion Ratio Lower Upper  
142 100  
127 49.5 36.6 55.0  
141 13.5 11.3 16.9



#11  
Tert butyl alcohol  
Concen: 1.10 ug/l  
RT: 3.07 min Scan# 407  
Delta R.T. -0.02 min  
Lab File: VX003269.D  
Acq: 10 Jul 2018 02:44

Tgt Ion: 59 Resp: 805  
Ion Ratio Lower Upper  
59 100  
57 24.5 8.2 12.2#





#13

Acrolein

Concen: 0.73 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

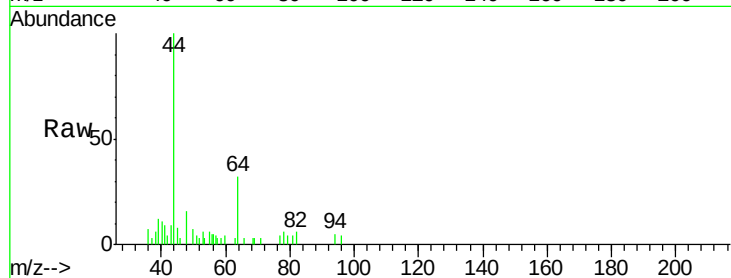
PB110911ZHE#15

Tot Ion: 56 Resp: 432

Ion Ratio Lower Upper

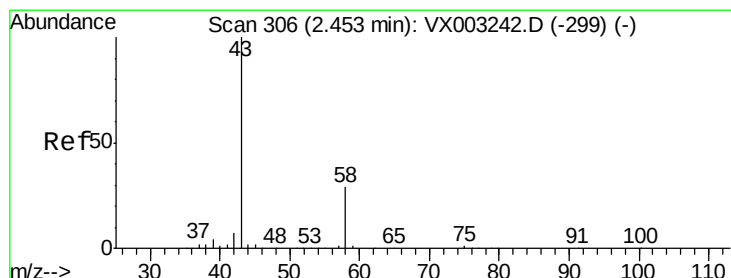
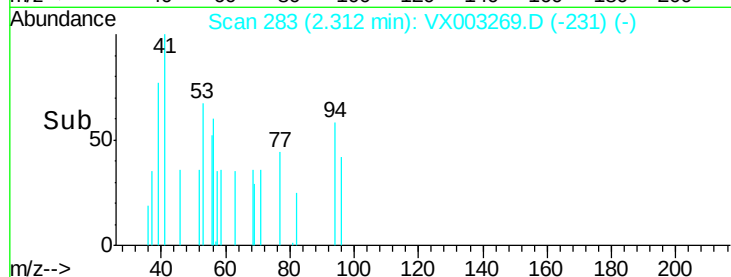
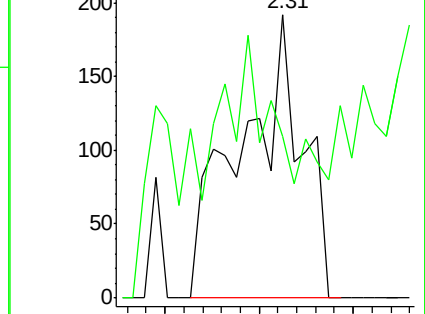
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 18.32 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003269.D

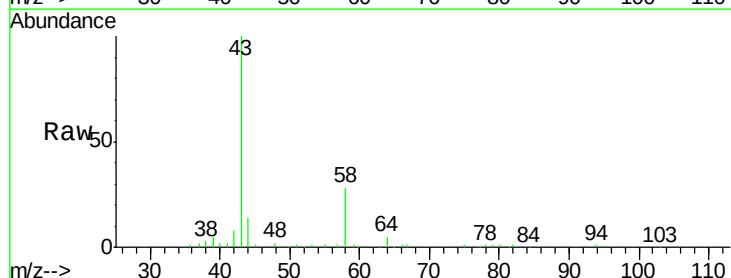
Acq: 10 Jul 2018 02:44

Tgt Ion: 43 Resp: 26346

Ion Ratio Lower Upper

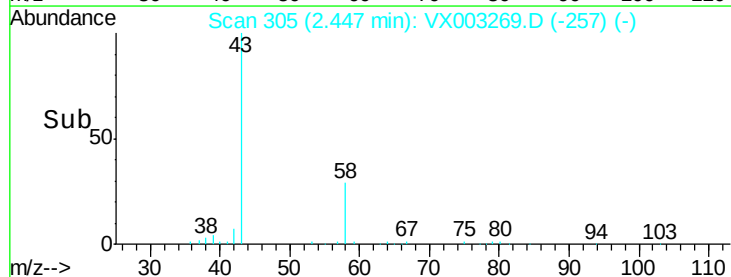
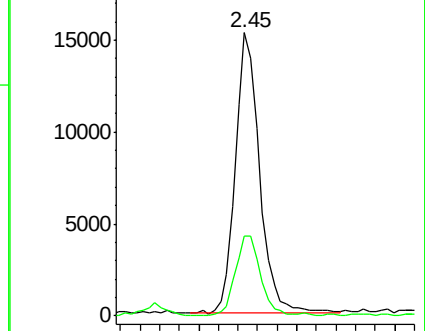
43 100

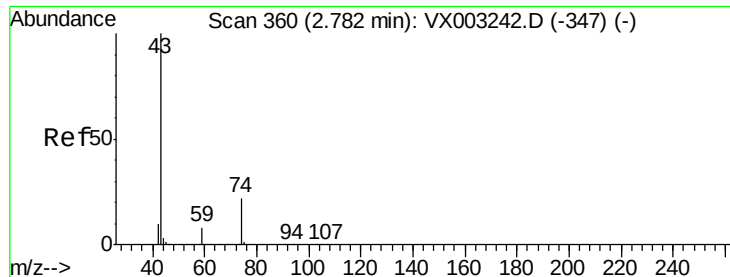
58 28.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

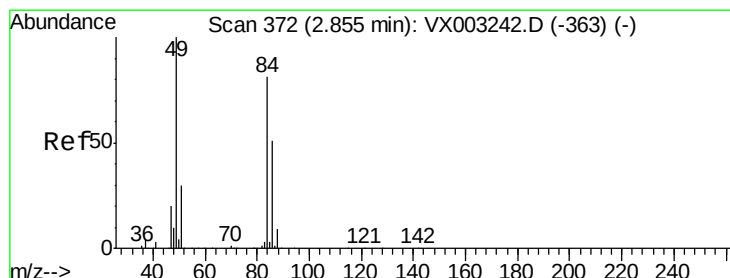
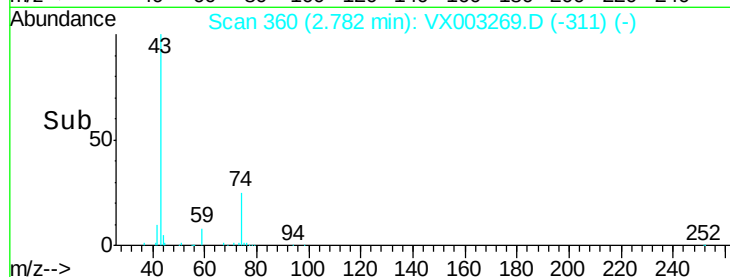
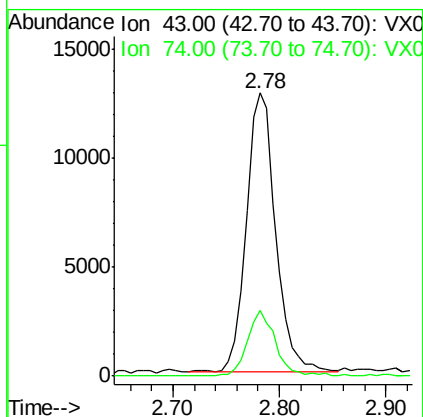
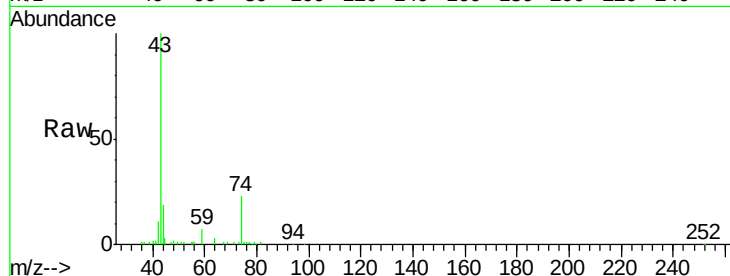




#18  
Methvl Acetate  
Concen: 6.08 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX003269.D  
Acq: 10 Jul 2018 02:44

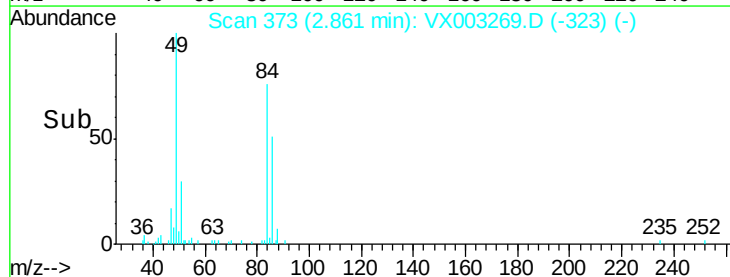
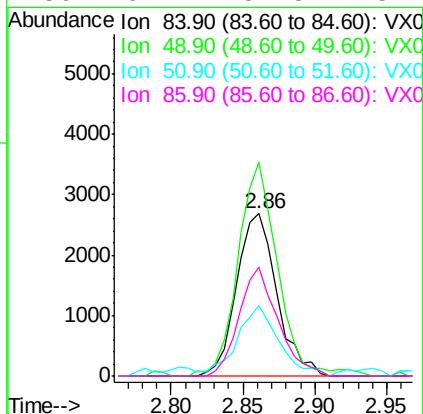
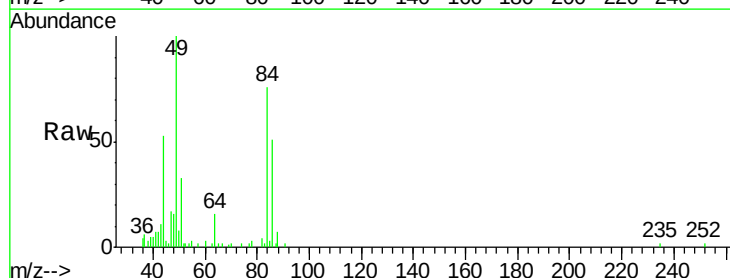
Instrument :  
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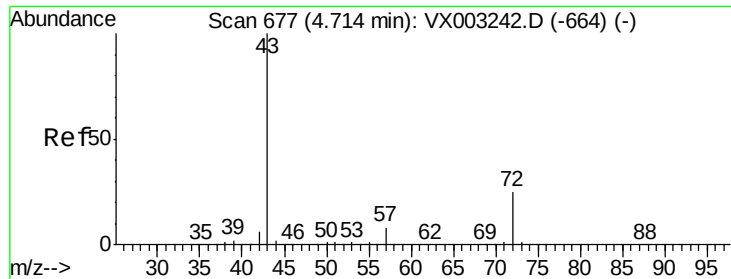
Tot Ion: 43 Resp: 24675  
Ion Ratio Lower Upper  
43 100  
74 22.6 16.7 25.1



#20  
Methylene Chloride  
Concen: 1.08 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.01 min  
Lab File: VX003269.D  
Acq: 10 Jul 2018 02:44

Tgt Ion: 84 Resp: 5209  
Ion Ratio Lower Upper  
84 100  
49 131.6 107.8 161.6  
51 41.1 32.8 49.2  
86 67.2 52.5 78.7





#25

2-Butanone

Concen: 2.01 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

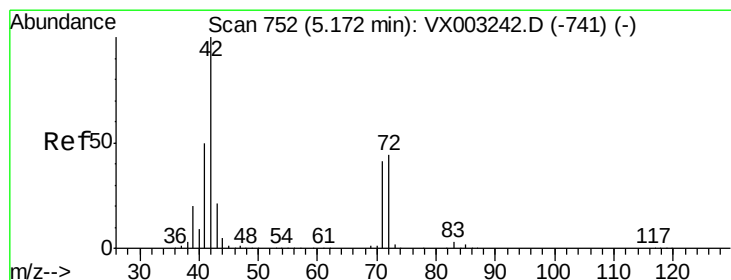
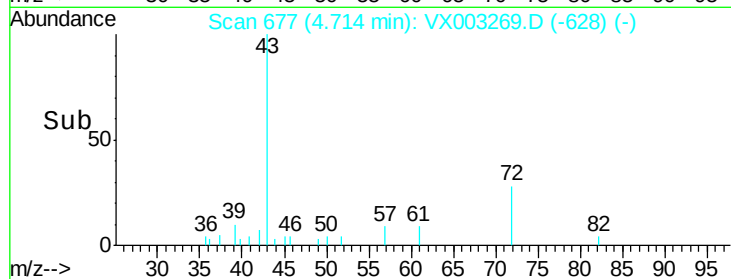
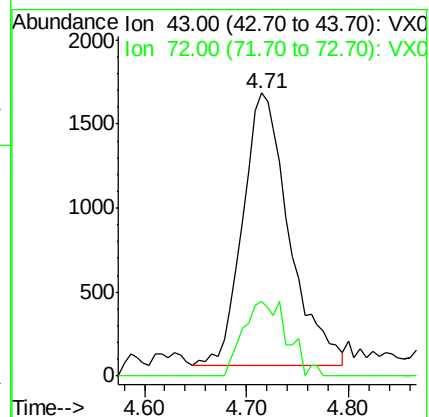
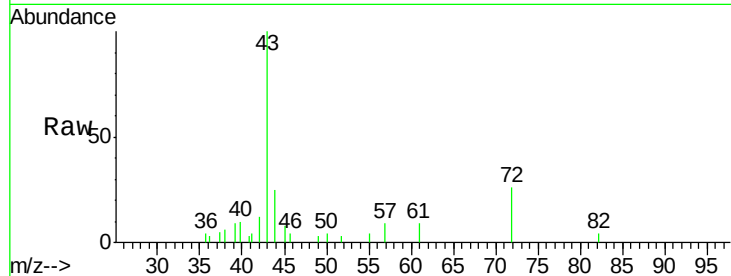
PB110911ZHE#15

Tot Ion: 43 Resp: 5109

Ion Ratio Lower Upper

43 100

72 27.5 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.29 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

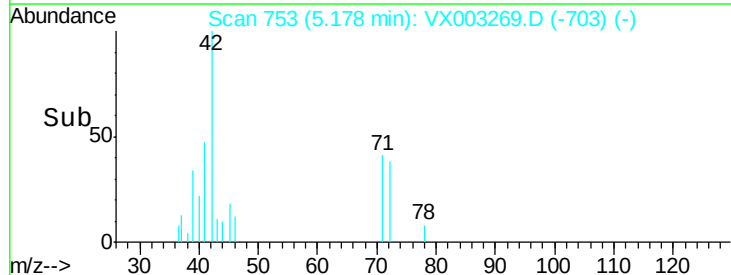
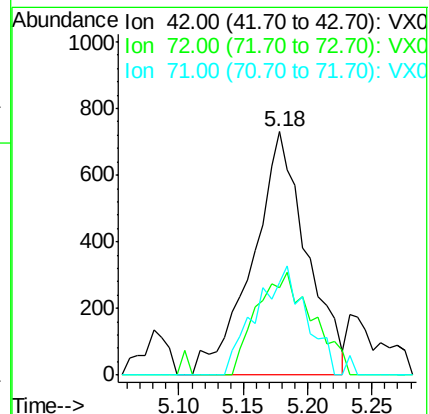
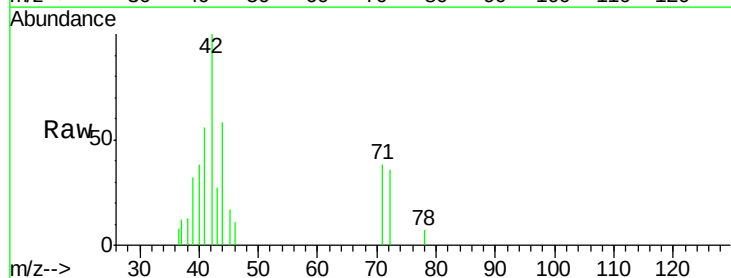
Tgt Ion: 42 Resp: 2126

Ion Ratio Lower Upper

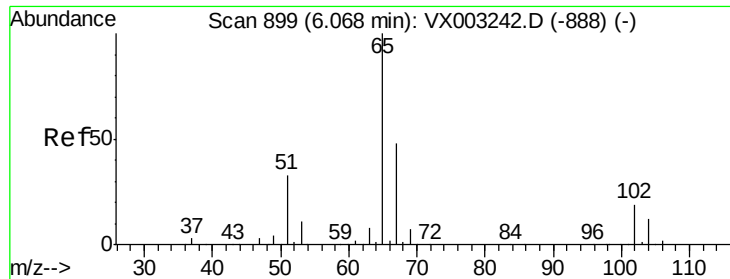
42 100

72 43.9 32.0 48.0

71 41.4 30.1 45.1



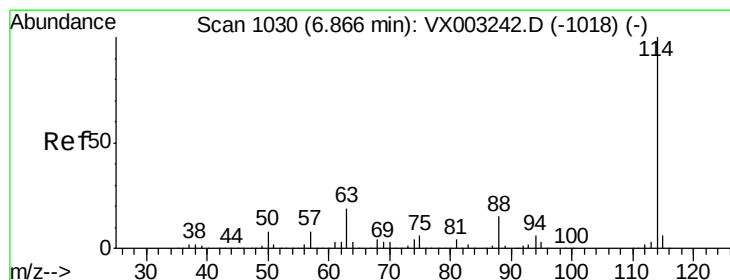
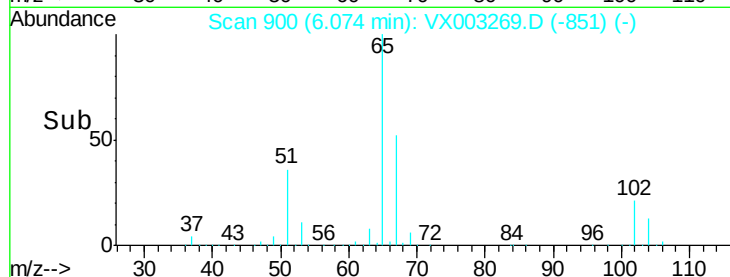
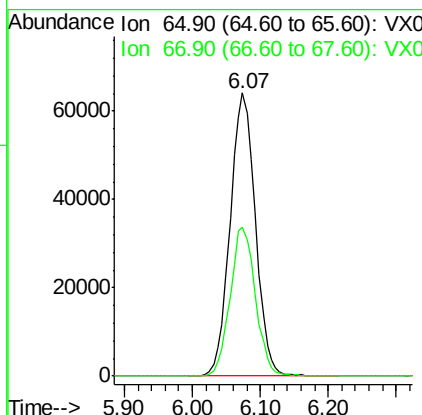
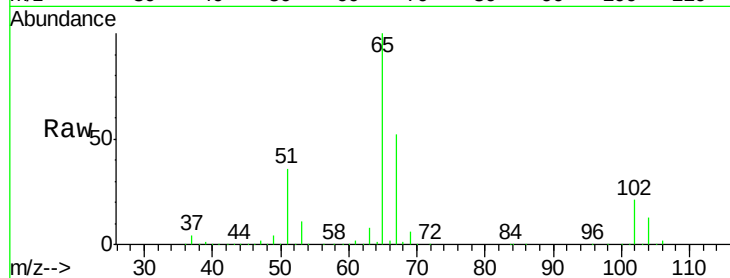




#33  
 1,2-Dichloroethane-d4  
 Concen: 40.79 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX003269.D  
 Acq: 10 Jul 2018 02:44

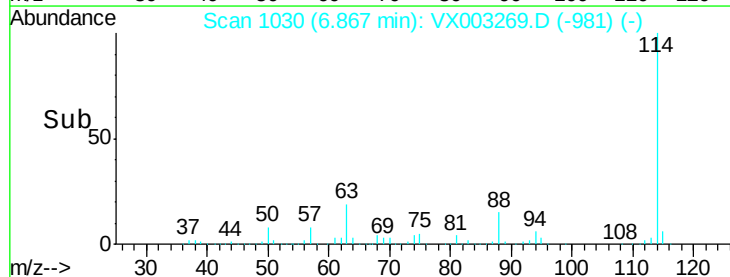
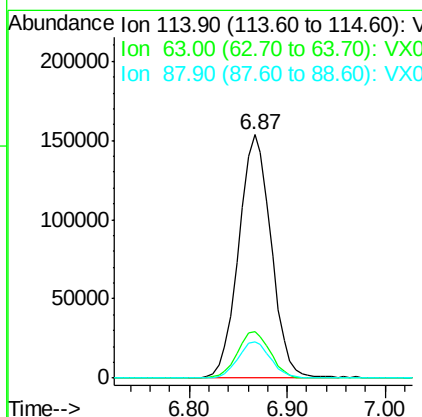
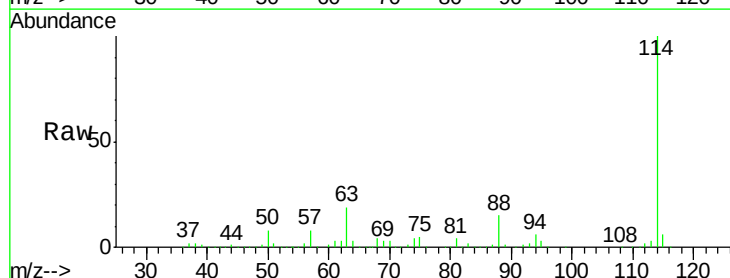
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB110911ZHE#15

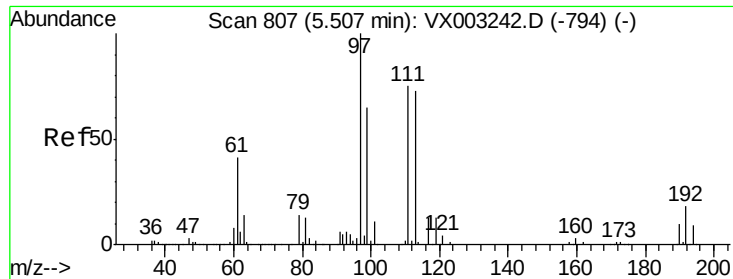
Tot Ion: 65 Resp: 165212  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003269.D  
 Acq: 10 Jul 2018 02:44

Tgt Ion: 114 Resp: 354287  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 41.4  
 88 14.6 0.0 30.0

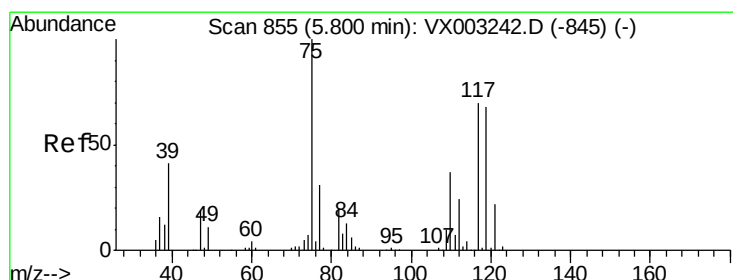
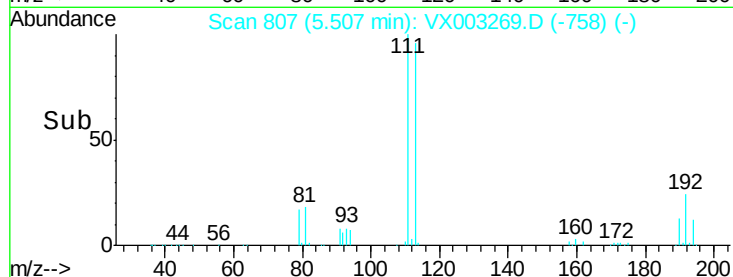
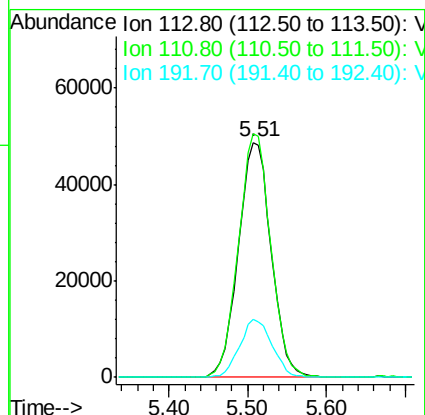
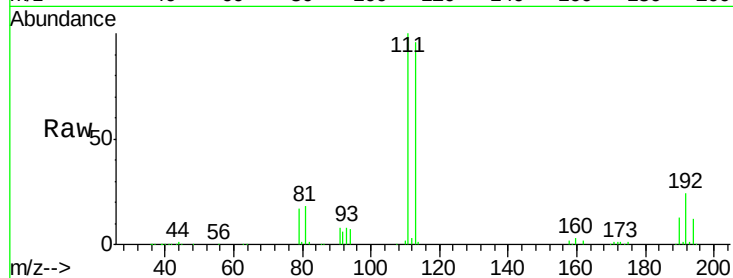




#35  
 Dibromofluoromethane  
 Concen: 36.99 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX003269.D  
 Acq: 10 Jul 2018 02:44

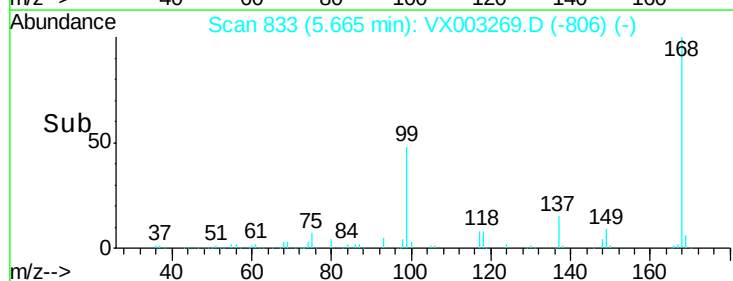
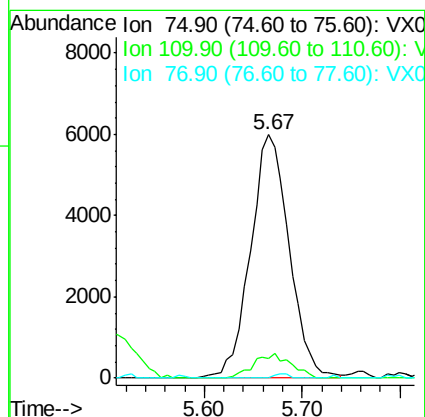
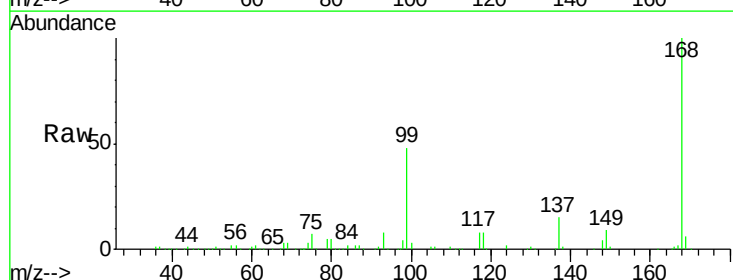
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB110911ZHE#15

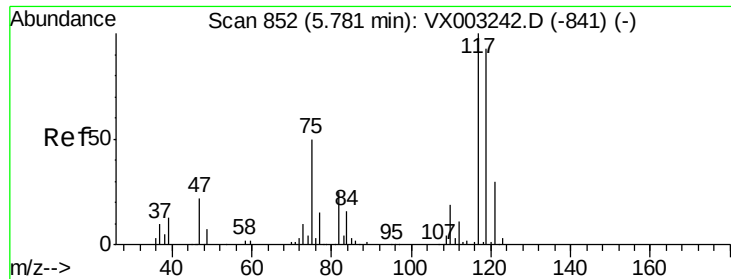
Tot Ion:113 Resp: 140793  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 81.4 122.0  
 192 24.6 19.1 28.7



#36  
 1,1-Dichloropropene  
 Concen: 3.27 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.13 min  
 Lab File: VX003269.D  
 Acq: 10 Jul 2018 02:44

Tgt Ion: 75 Resp: 16412  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 18.1 54.4#  
 77 0.6 24.3 36.5#

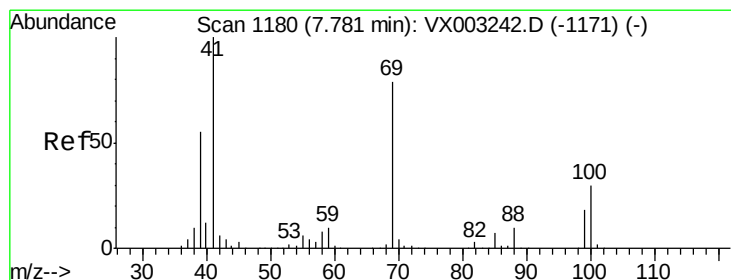
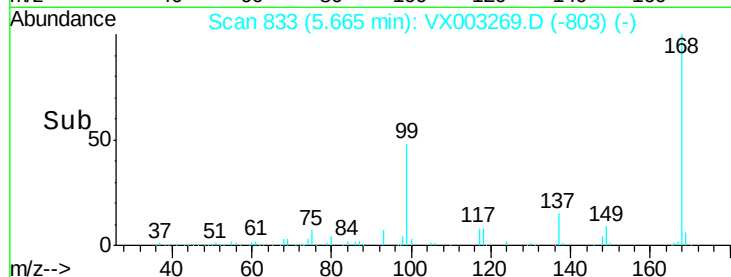
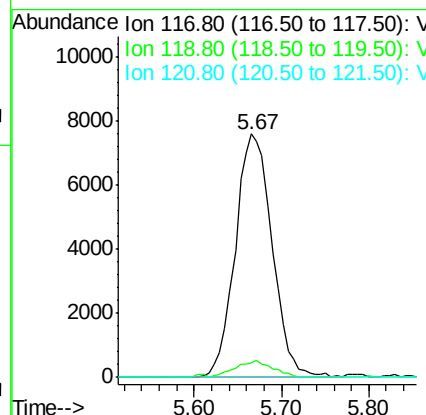
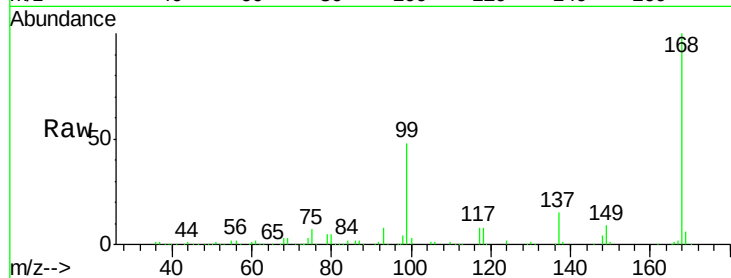




#38  
Carbon Tetrachloride  
Concen: 4.04 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. -0.12 min  
Lab File: VX003269.D  
Acq: 10 Jul 2018 02:44

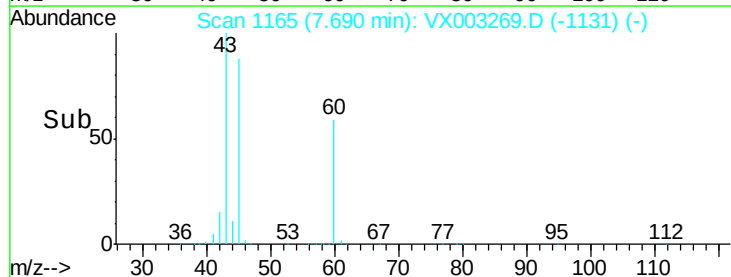
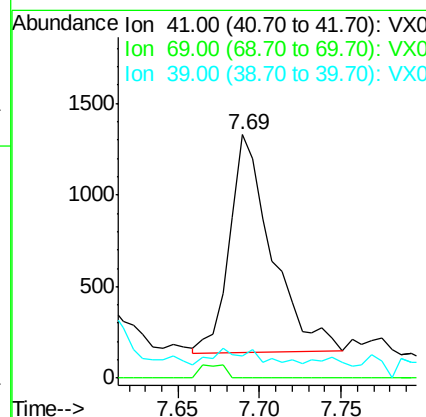
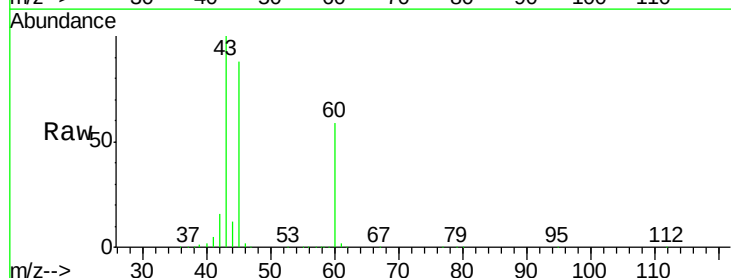
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB110911ZHE#15

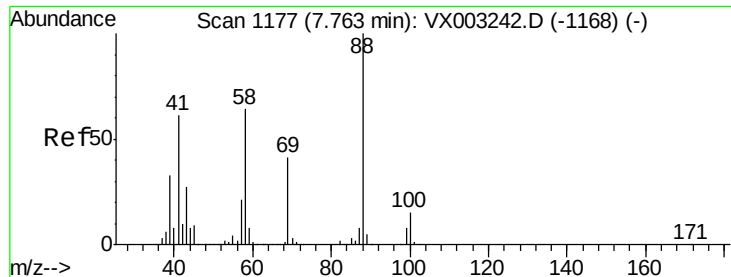
Tot Ion:117 Resp: 22160  
Ion Ratio Lower Upper  
117 100  
119 5.9 77.4 116.0#  
121 0.0 24.4 36.6#



#48  
Methyl methacrylate  
Concen: 0.48 ug/l  
RT: 7.69 min Scan# 1165  
Delta R.T. -0.09 min  
Lab File: VX003269.D  
Acq: 10 Jul 2018 02:44

Tgt Ion: 41 Resp: 2145  
Ion Ratio Lower Upper  
41 100  
69 3.6 59.1 88.7#  
39 7.9 48.9 73.3#





#49

1,4-Dioxane

Concen: 0.22 ug/l

RT: 8.03 min Scan# 1221

Delta R.T. 0.27 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

PB110911ZHE#15

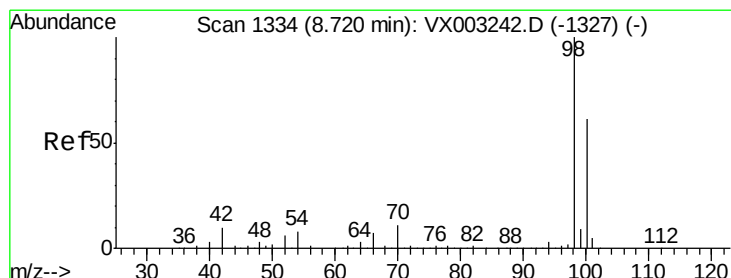
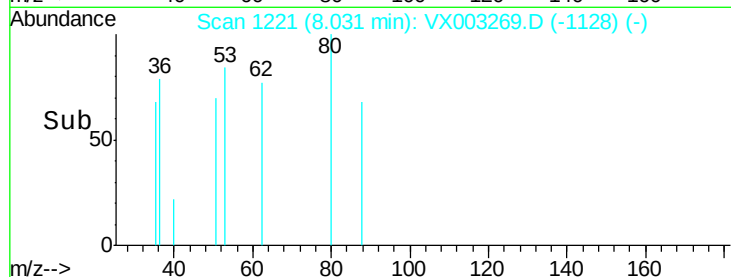
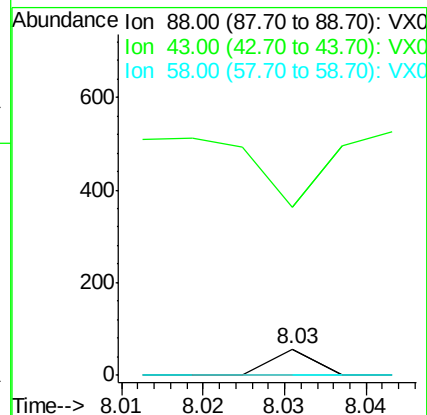
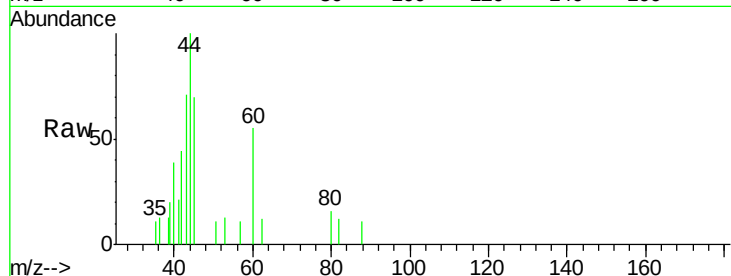
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

58 0.0 57.1 85.7#



#50

Toluene-d8

Concen: 37.04 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003269.D

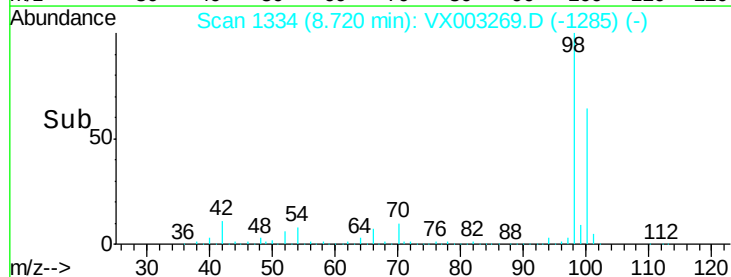
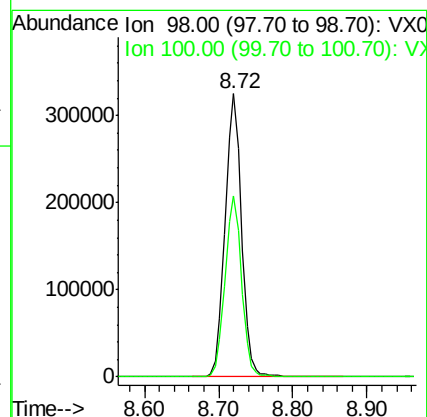
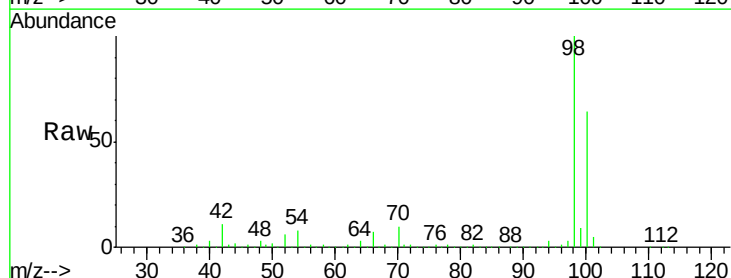
Acq: 10 Jul 2018 02:44

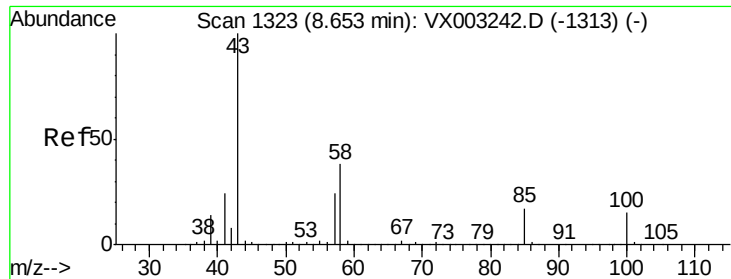
Tgt Ion: 98 Resp: 500707

Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

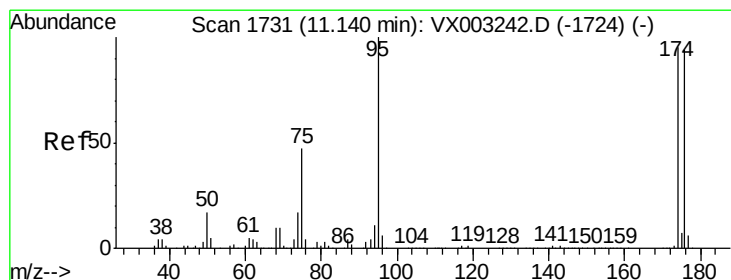
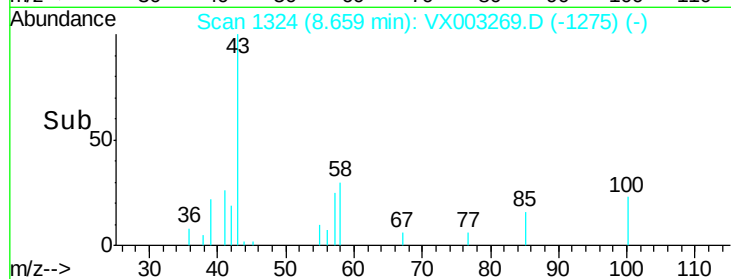
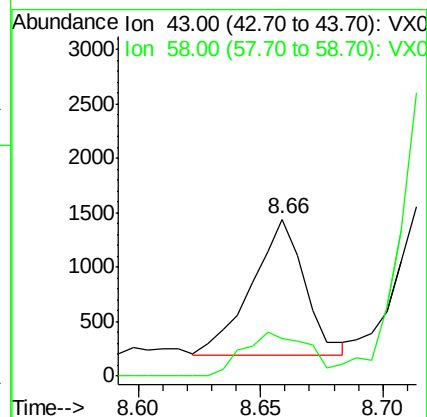
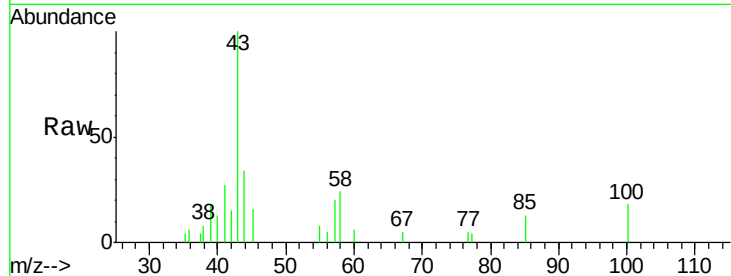
PB110911ZHE#15

Tot Ion: 43 Resp: 1871

Ion Ratio Lower Upper

43 100

58 41.0 28.6 42.8



#62

4-Bromofluorobenzene

Concen: 35.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

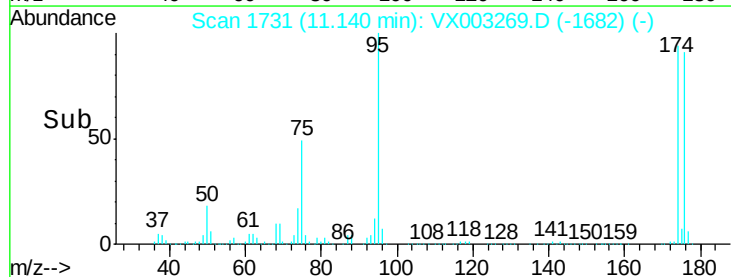
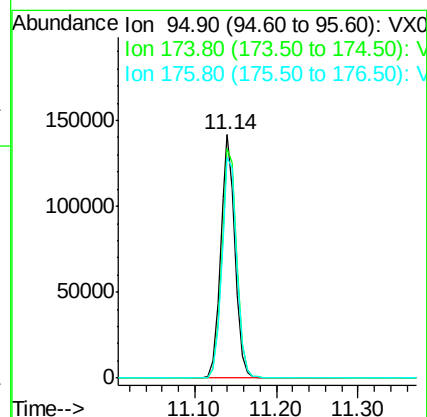
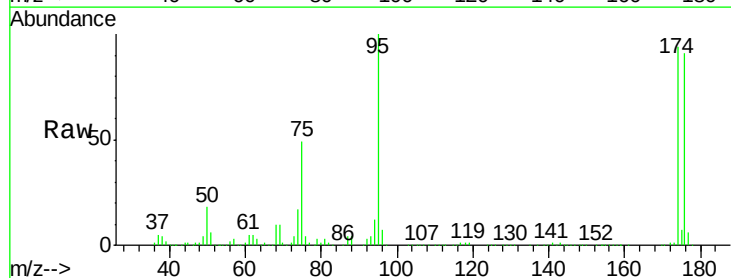
Tgt Ion: 95 Resp: 175197

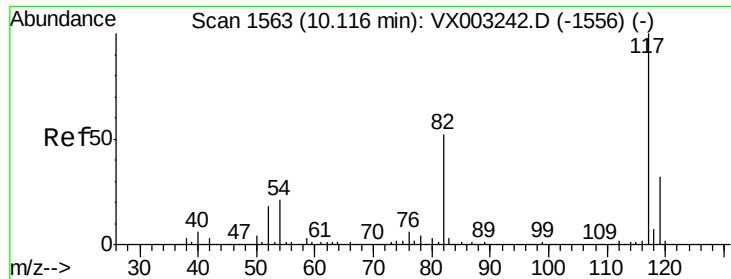
Ion Ratio Lower Upper

95 100

174 99.2 0.0 187.4

176 95.2 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

Instrument :

MSVOA\_X

ClientSampleId :

PB110911ZHE#15

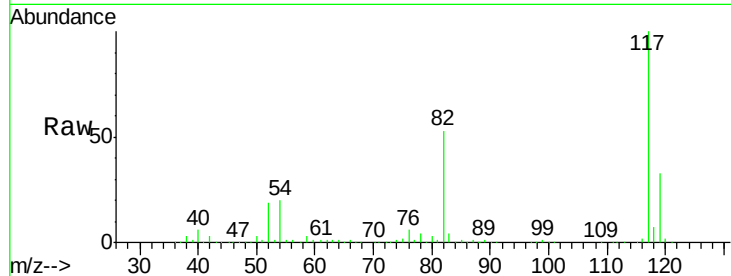
Tot Ion:117 Resp: 332265

Ion Ratio Lower Upper

117 100

82 52.8 45.0 67.4

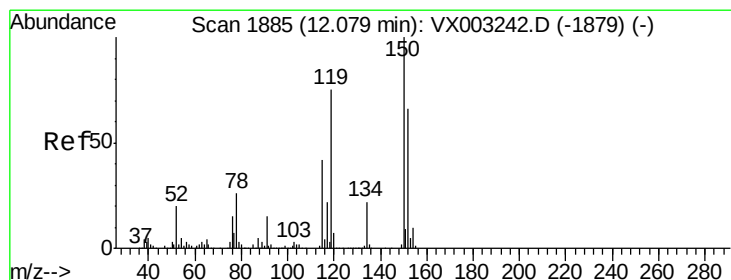
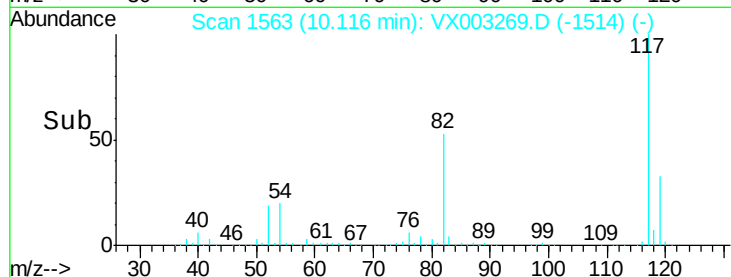
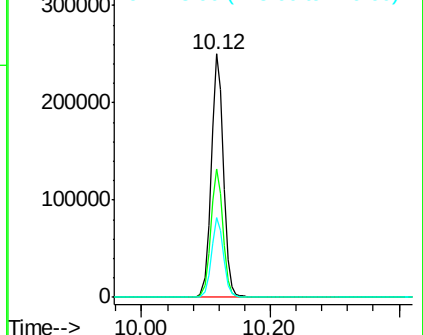
119 32.9 25.8 38.6



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. 0.00 min

Lab File: VX003269.D

Acq: 10 Jul 2018 02:44

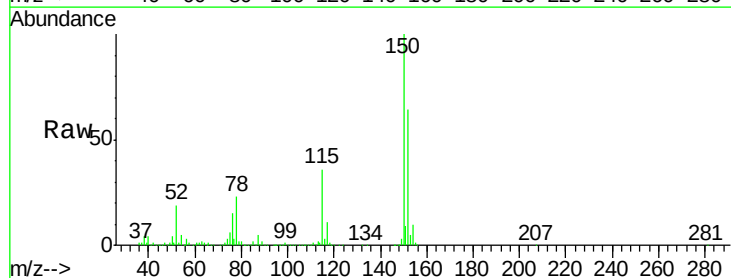
Tgt Ion:152 Resp: 188819

Ion Ratio Lower Upper

152 100

115 53.2 40.1 120.2

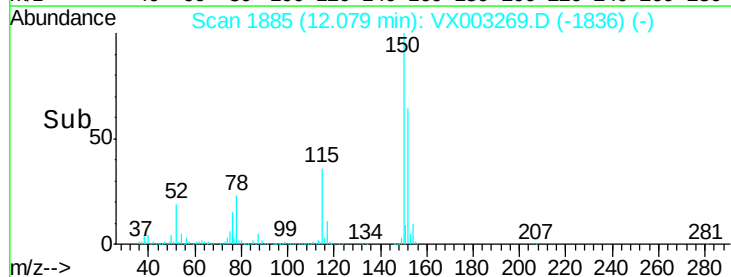
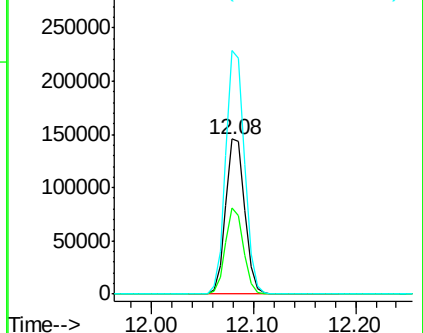
150 154.9 0.0 347.2

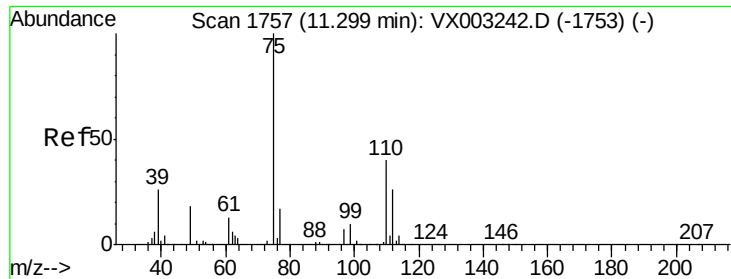


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

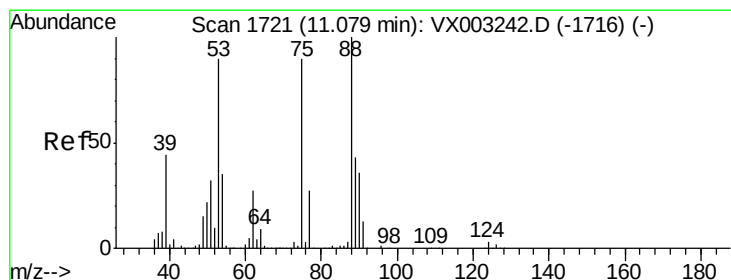
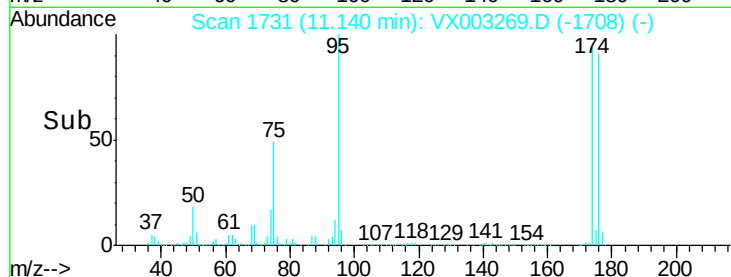
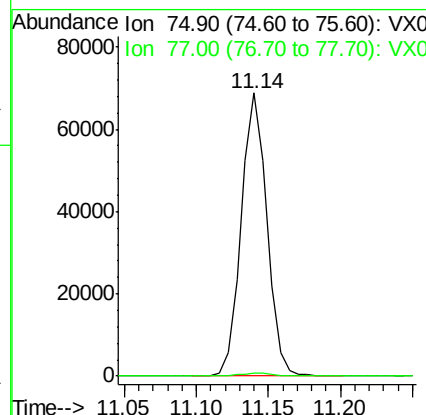
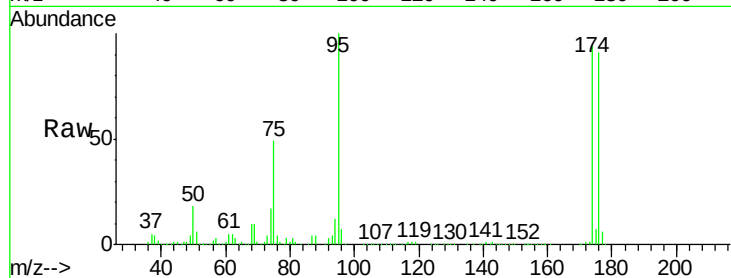




#76  
 1,2,3-Trichloropropane  
 Concen: 21.00 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX003269.D  
 Acq: 10 Jul 2018 02:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB110911ZHE#15

Tot Ion: 75 Resp: 85690  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 22.8 68.3#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.63 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX003269.D  
 Acq: 10 Jul 2018 02:44

Tgt Ion: 75 Resp: 85690  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 86.8 130.2#  
 89 0.0 38.2 57.2#

