

Data File : VX000900.D  
Acq On : 15 Apr 2018 16:37  
Operator : JC/MD  
Sample : ZHE-15 5X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#15 5X

Quant Time: Apr 16 07:39:12 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 278982   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 378861   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 351972   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 231311   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 166564   | 47.35 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.70% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 133885   | 45.87 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.74% |      |
| 50) Toluene-d8              | 8.72   | 98  | 528002   | 48.58 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.16% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 204655   | 45.51 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.02% |      |

|                                |       |     |        |           |        |    |
|--------------------------------|-------|-----|--------|-----------|--------|----|
| Target Compounds               |       |     |        | Qvalue    |        |    |
| 5) Bromomethane                | 1.65  | 94  | 339    | Below Cal | #      | 36 |
| 16) Acetone                    | 2.45  | 43  | 2365   | 1.95      | ug/l   | 92 |
| 18) Methyl Acetate             | 2.78  | 43  | 4259   | 1.36      | ug/l   | 95 |
| 20) Methylene Chloride         | 2.86  | 84  | 1101   | 0.39      | ug/l # | 93 |
| 25) 2-Butanone                 | 4.72  | 43  | 414    | 0.21      | ug/l # | 50 |
| 31) Cyclohexane                | 5.67  | 56  | 4713   | 1.02      | ug/l # | 1  |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 17088  | 4.10      | ug/l # | 48 |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 23238  | 4.98      | ug/l # | 15 |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 100012 | 25.07     | ug/l # | 36 |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 100012 | 68.96     | ug/l # | 11 |

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

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Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#15 5X

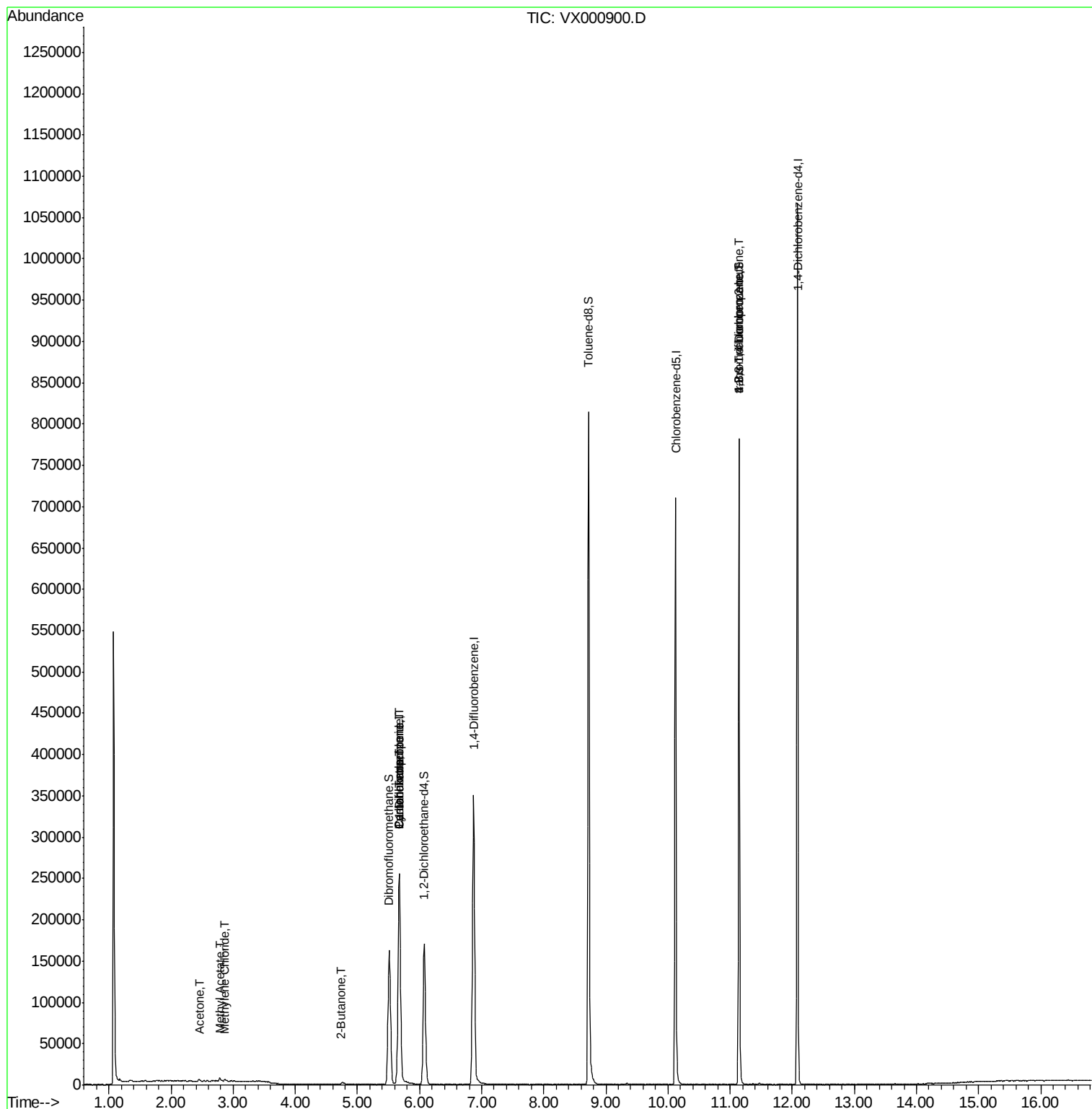
Quant Time: Apr 16 07:39:12 2018

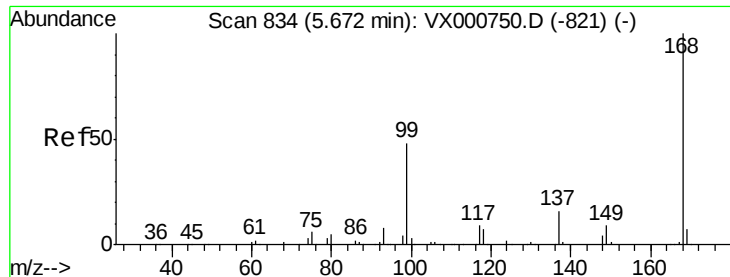
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M

Quant Title : SW846 8260

QLast Update : Tue Apr 10 15:49:28 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX000900.D

Acq: 15 Apr 2018 16:37

Instrument :

MSVOA\_X

ClientSampleId :

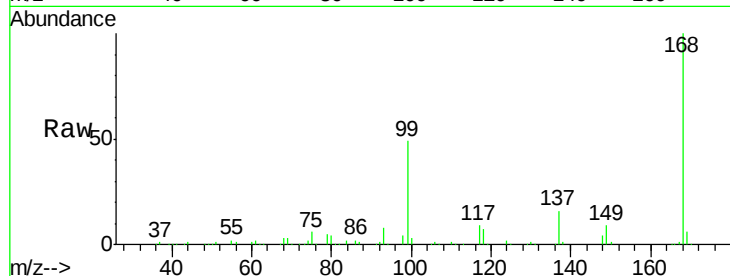
PB108205ZHE#15 5X

Tgt Ion:168 Resp: 278982

Ion Ratio Lower Upper

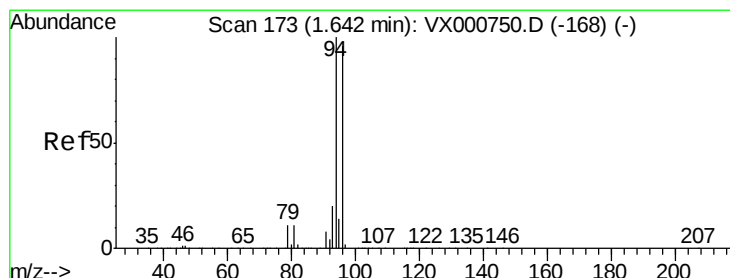
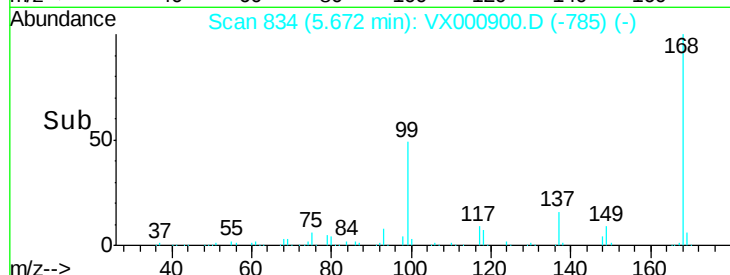
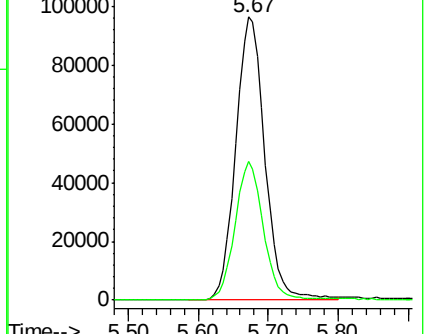
168 100

99 48.8 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000900.D

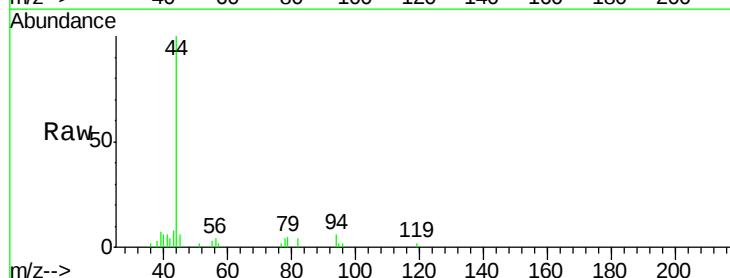
Acq: 15 Apr 2018 16:37

Tgt Ion: 94 Resp: 339

Ion Ratio Lower Upper

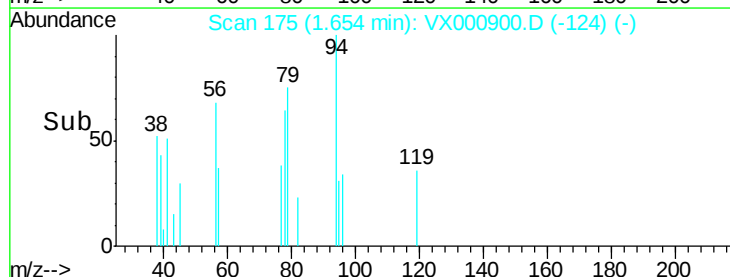
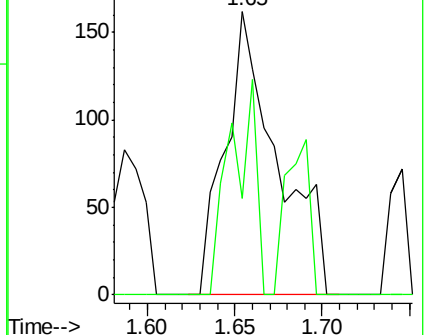
94 100

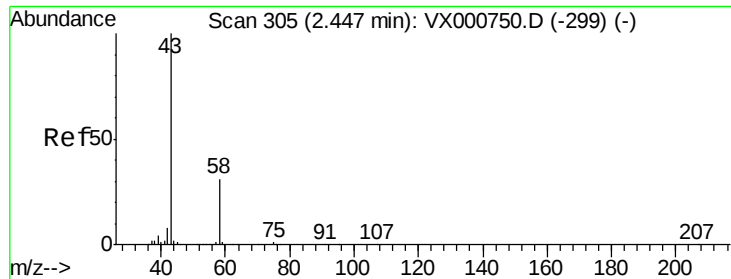
96 34.0 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#16

Acetone

Concen: 1.95 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX000900.D

Acq: 15 Apr 2018 16:37

Instrument :

MSVOA\_X

ClientSampleId :

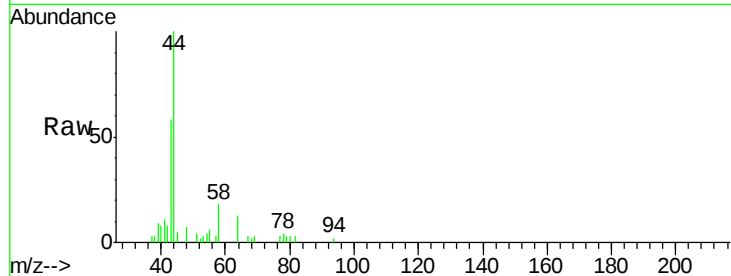
PB108205ZHE#15 5X

Tgt Ion: 43 Resp: 2365

Ion Ratio Lower Upper

43 100

58 35.4 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

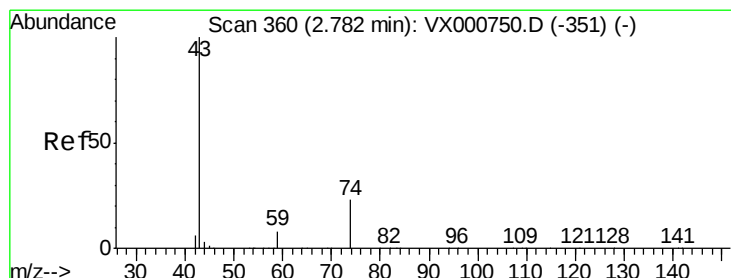
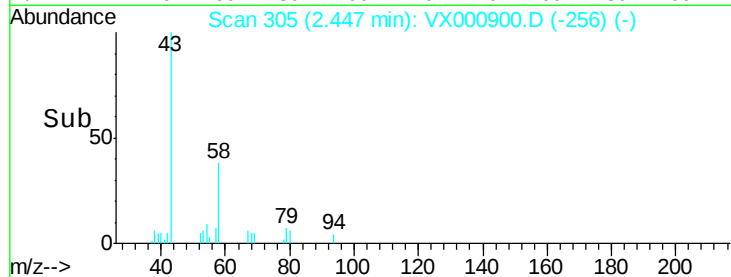
1500

1000

500

0

Time--> 2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 1.36 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX000900.D

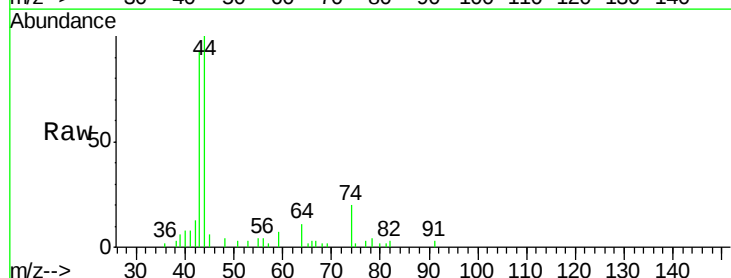
Acq: 15 Apr 2018 16:37

Tgt Ion: 43 Resp: 4259

Ion Ratio Lower Upper

43 100

74 21.5 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2500

2000

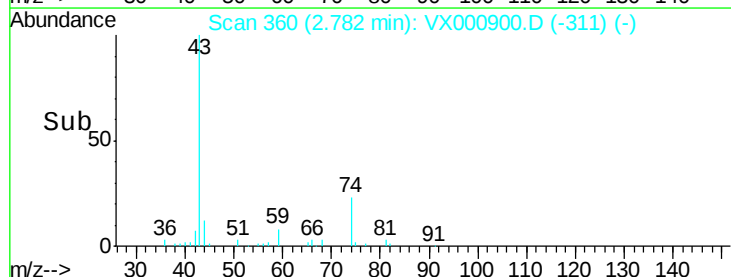
1500

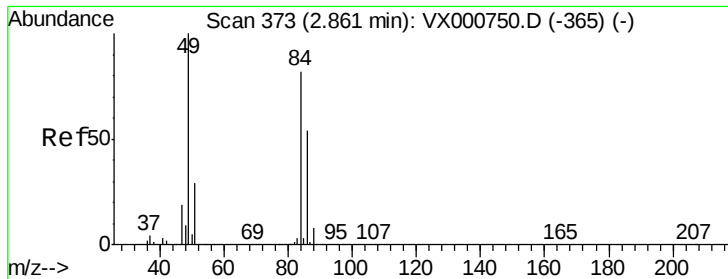
1000

500

0

Time--> 2.70 2.75 2.80 2.85

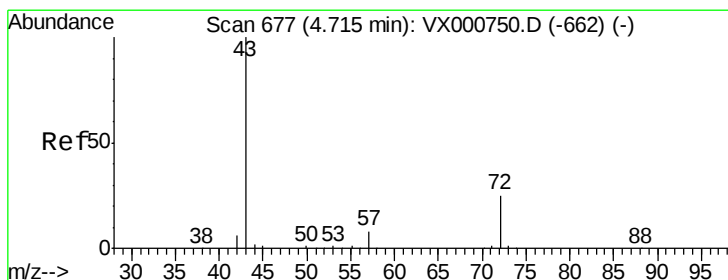
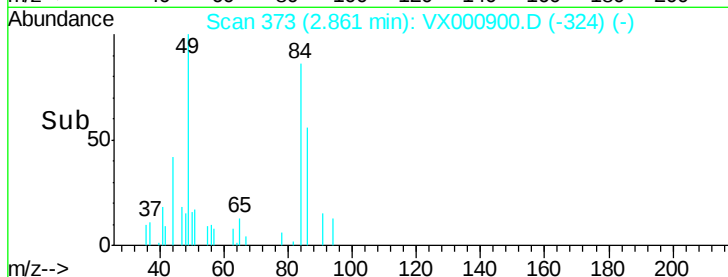
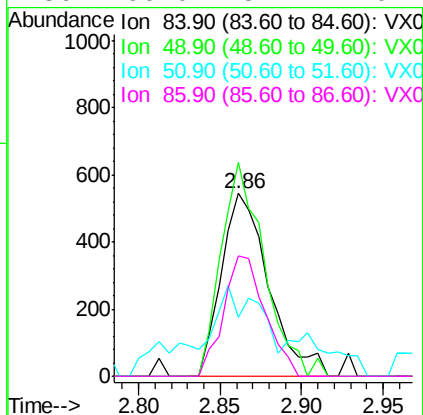
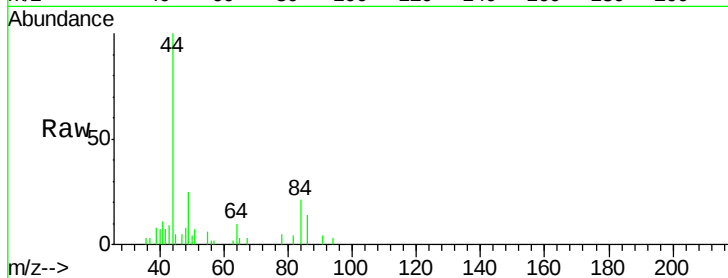




#20  
Methylene Chloride  
Concen: 0.39 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX000900.D  
Acq: 15 Apr 2018 16:37

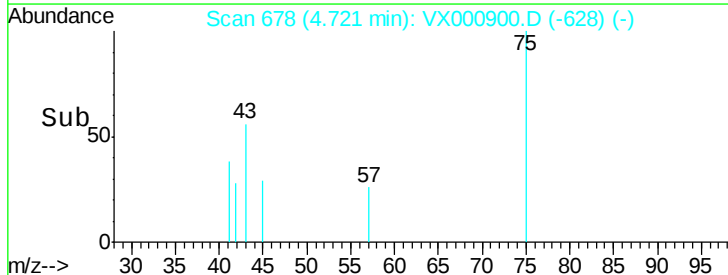
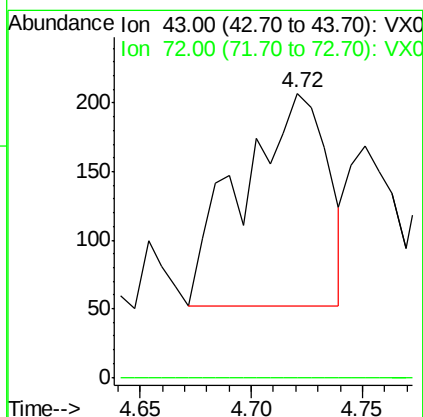
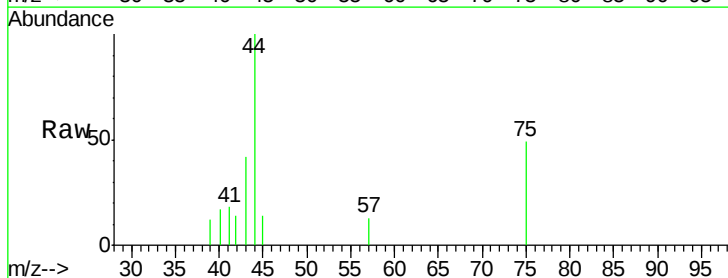
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#15 5X

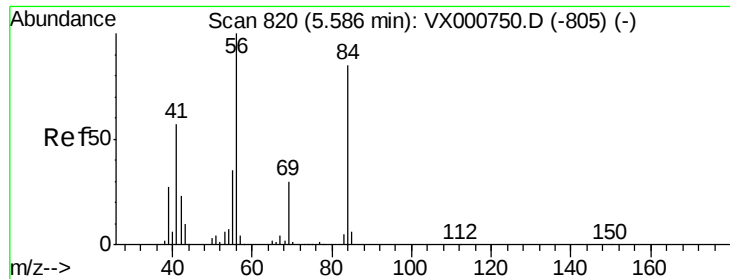
Tgt Ion: 84 Resp: 1101  
Ion Ratio Lower Upper  
84 100  
49 116.9 98.1 147.1  
51 18.9 28.9 43.3#  
86 66.0 52.7 79.1



#25  
2-Butanone  
Concen: 0.21 ug/l  
RT: 4.72 min Scan# 678  
Delta R.T. 0.01 min  
Lab File: VX000900.D  
Acq: 15 Apr 2018 16:37

Tgt Ion: 43 Resp: 414  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.3 30.5#

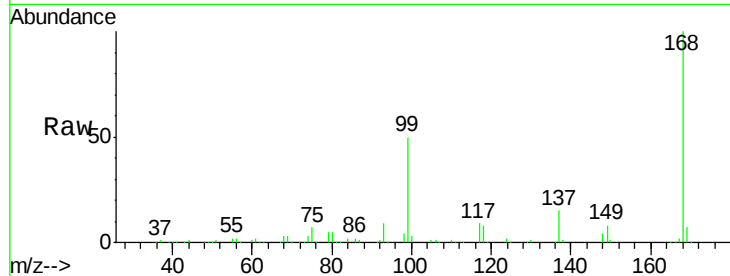




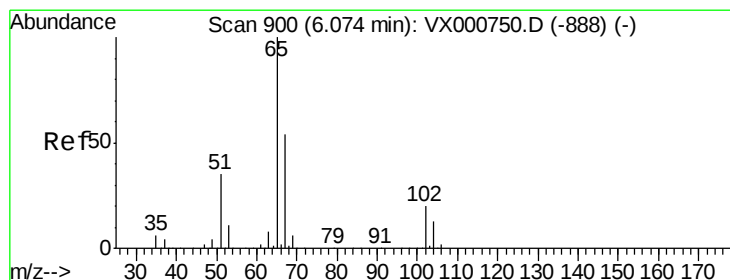
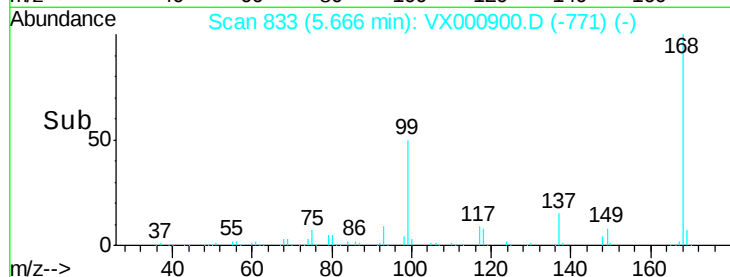
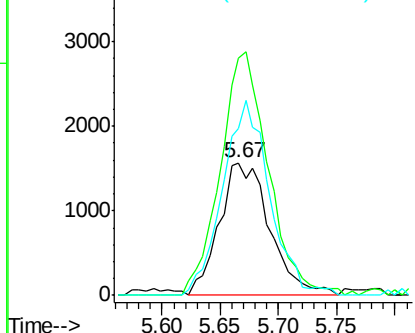
#31  
Cyclohexane  
Concen: 1.02 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. 0.08 min  
Lab File: VX000900.D  
Acq: 15 Apr 2018 16:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#15 5X

Tgt Ion: 56 Resp: 4713  
Ion Ratio Lower Upper  
56 100  
69 174.3 24.2 36.4#  
84 126.0 67.6 101.4#

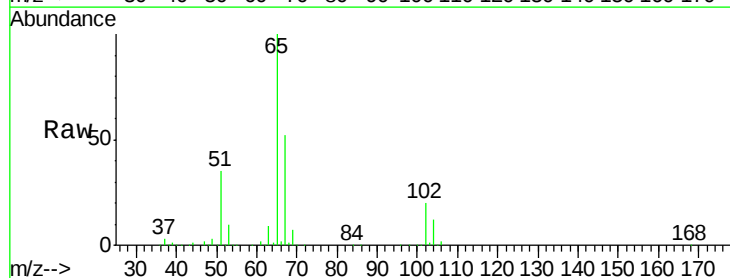


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

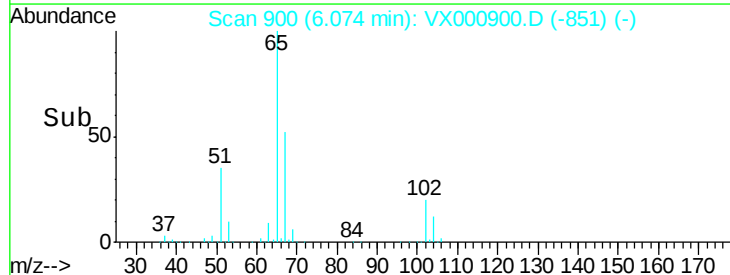
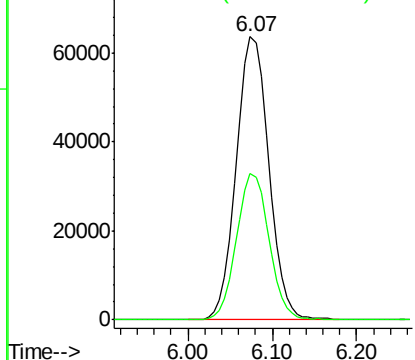


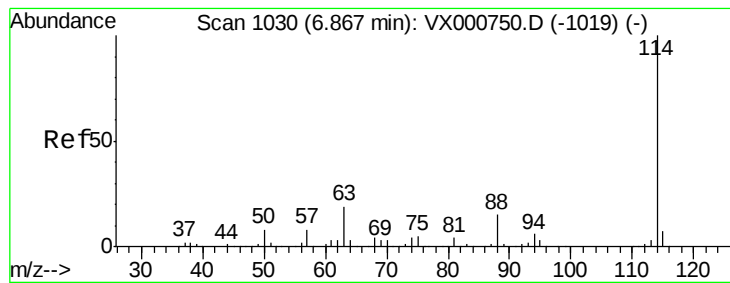
#33  
1,2-Dichloroethane-d4  
Concen: 47.35 ug/l  
RT: 6.07 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: VX000900.D  
Acq: 15 Apr 2018 16:37

Tgt Ion: 65 Resp: 166564  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 103.8



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000900.D

Acq: 15 Apr 2018 16:37

Instrument :

MSVOA\_X

ClientSampleId :

PB108205ZHE#15 5X

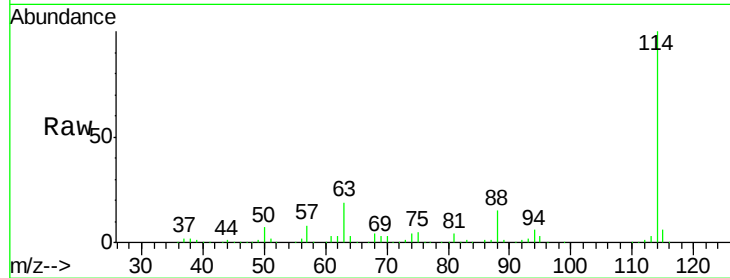
Tgt Ion:114 Resp: 378861

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.4

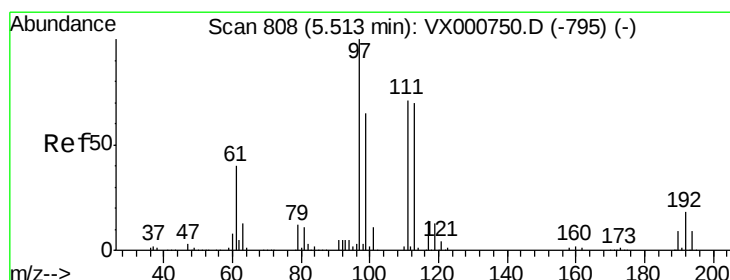
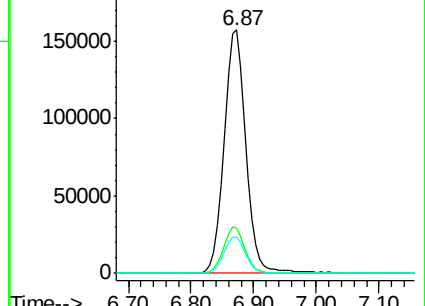
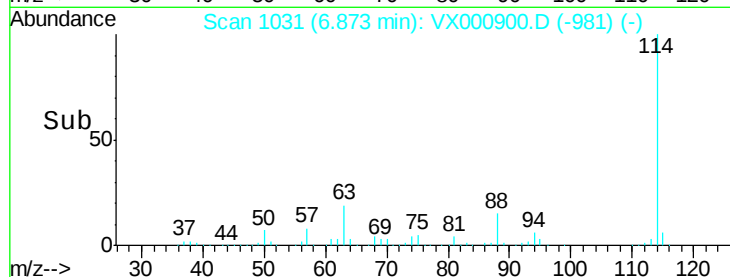
88 15.0 0.0 31.0



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: 45.87 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX000900.D

Acq: 15 Apr 2018 16:37

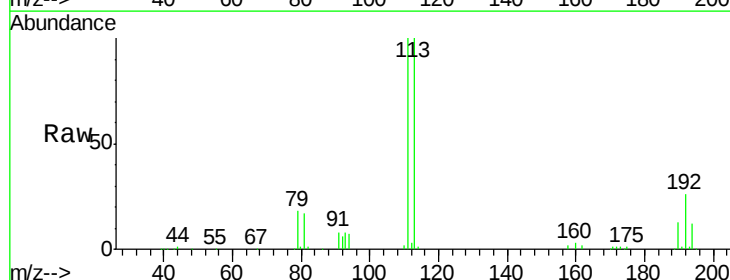
Tgt Ion:113 Resp: 133885

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

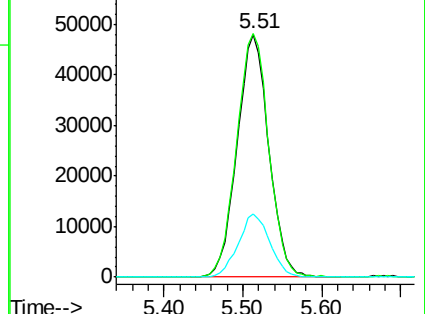
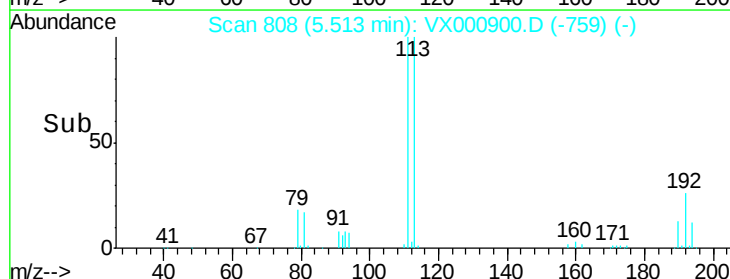
192 26.1 20.4 30.6

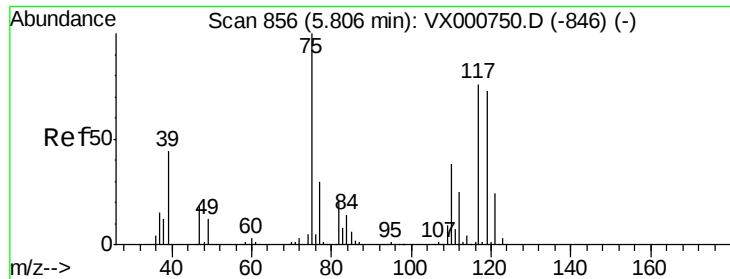


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

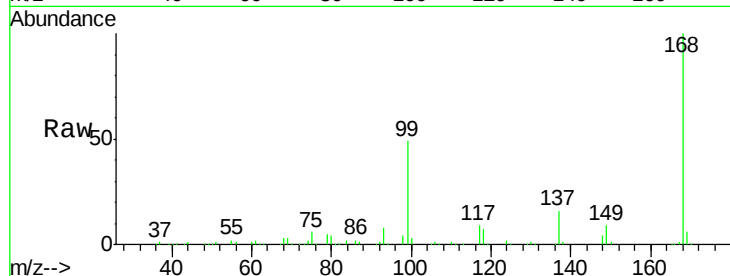




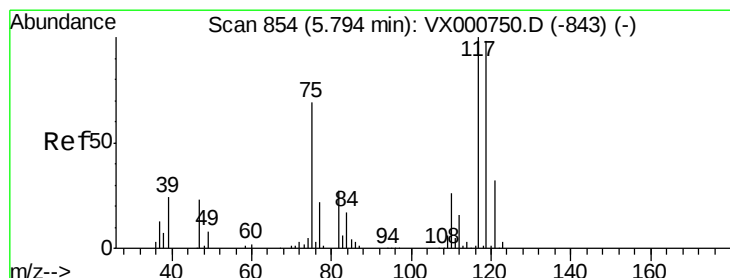
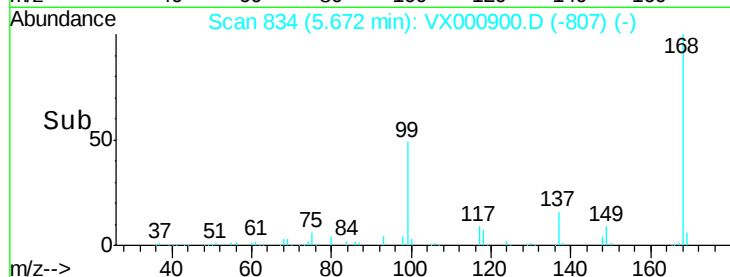
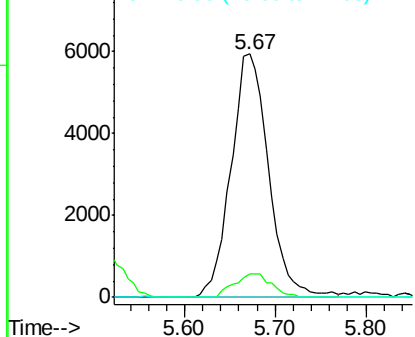
#36  
 1,1-Dichloropropene  
 Concen: 4.10 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX000900.D  
 Acq: 15 Apr 2018 16:37

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Tgt Ion: 75 Resp: 17088  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 19.2 57.6#  
 77 0.0 25.4 38.2#

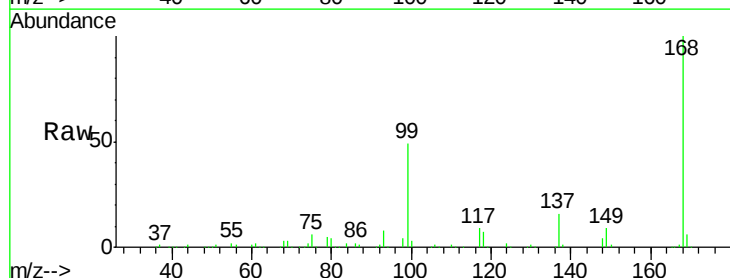


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

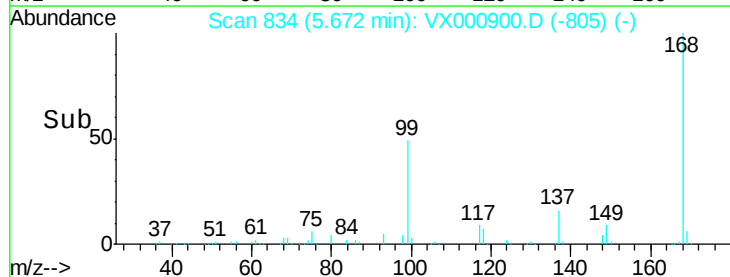
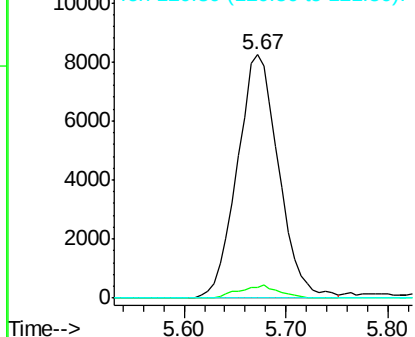


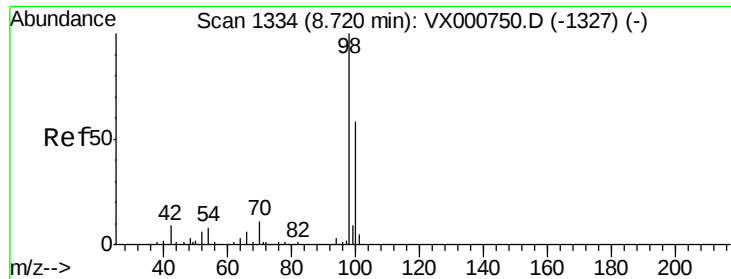
#38  
 Carbon Tetrachloride  
 Concen: 4.98 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX000900.D  
 Acq: 15 Apr 2018 16:37

Tgt Ion: 117 Resp: 23238  
 Ion Ratio Lower Upper  
 117 100  
 119 4.5 78.4 117.6#  
 121 0.0 25.4 38.0#



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

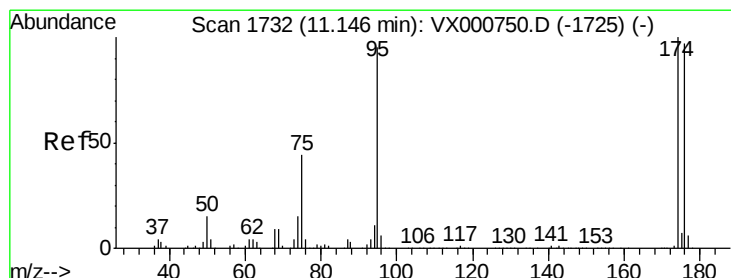
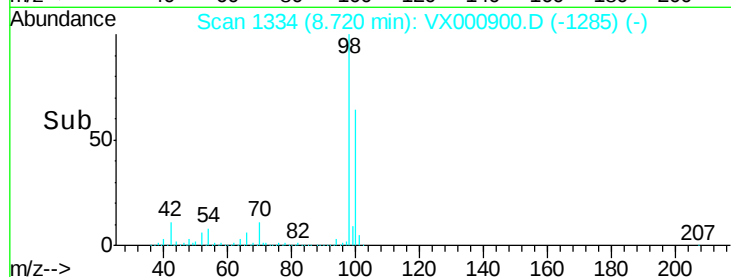
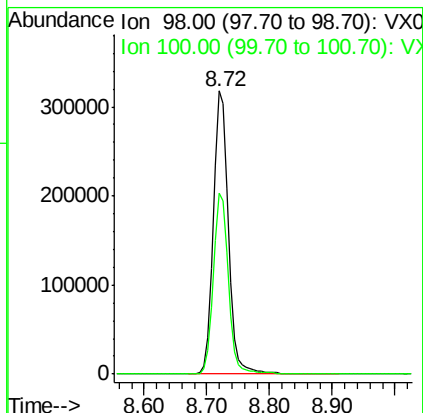
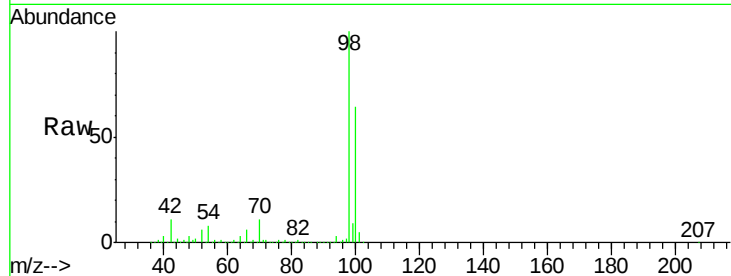




#50  
Toluene-d8  
Concen: 48.58 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX000900.D  
Acq: 15 Apr 2018 16:37

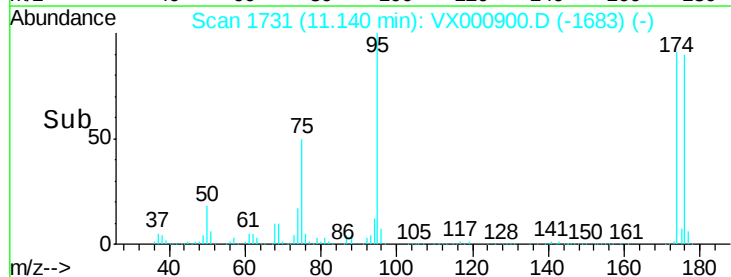
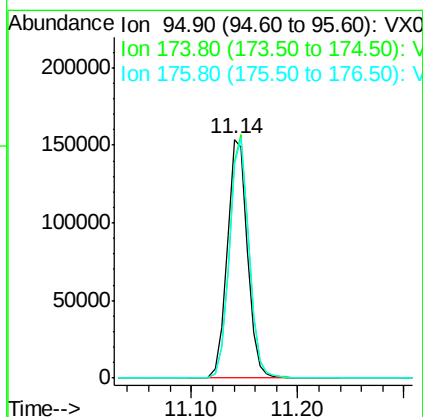
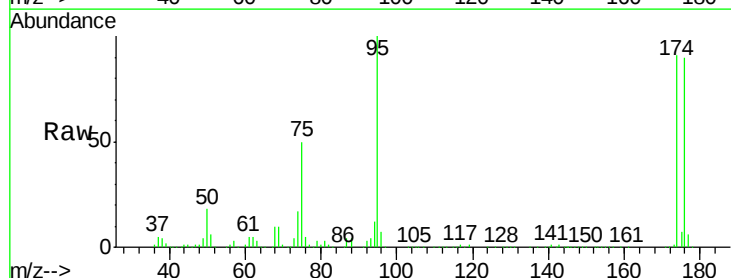
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108205ZHE#15 5X

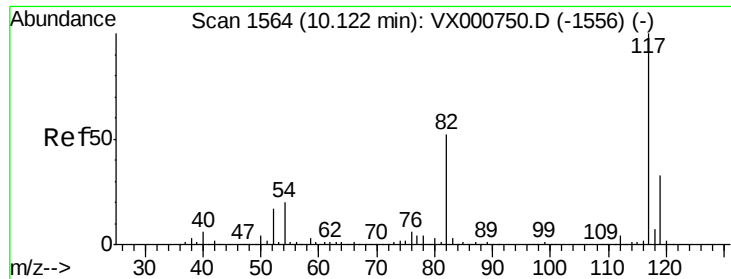
Tgt Ion: 98 Resp: 528002  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.6 79.0



#62  
4-Bromofluorobenzene  
Concen: 45.51 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.01 min  
Lab File: VX000900.D  
Acq: 15 Apr 2018 16:37

Tgt Ion: 95 Resp: 204655  
Ion Ratio Lower Upper  
95 100  
174 98.1 0.0 198.4  
176 97.2 0.0 194.4

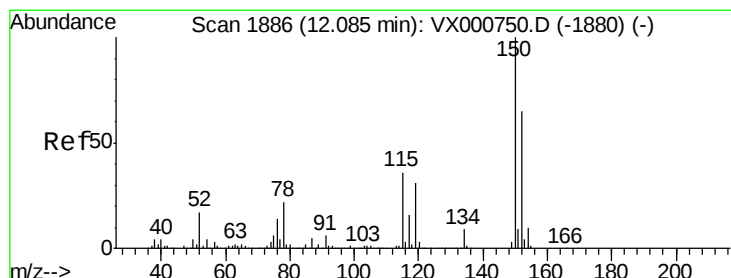
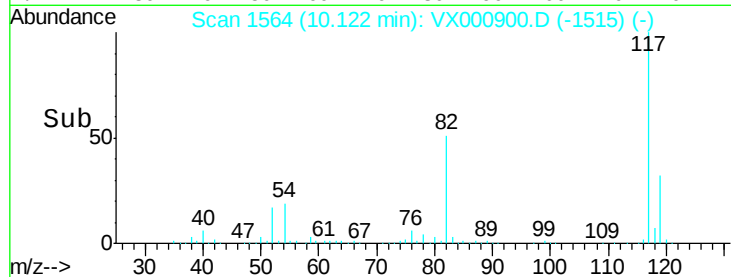
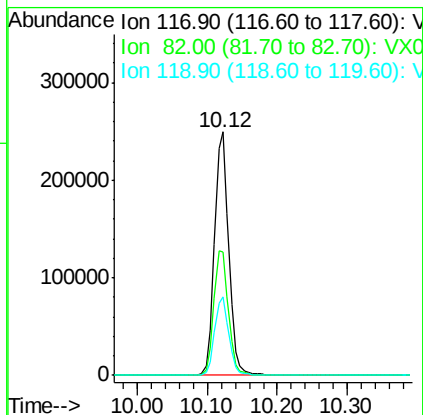
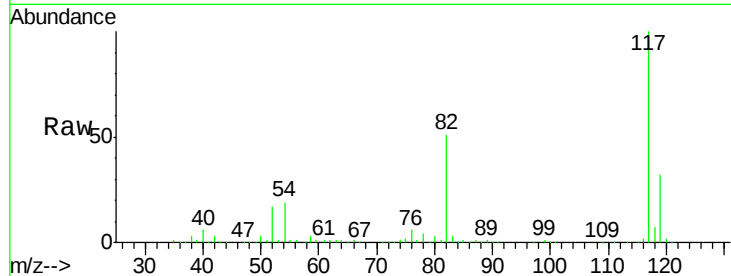




#63  
 Chlorobenzene-d5  
 Concen: 50.00 ug/l  
 RT: 10.12 min Scan# 1564  
 Delta R.T. 0.00 min  
 Lab File: VX000900.D  
 Acq: 15 Apr 2018 16:37

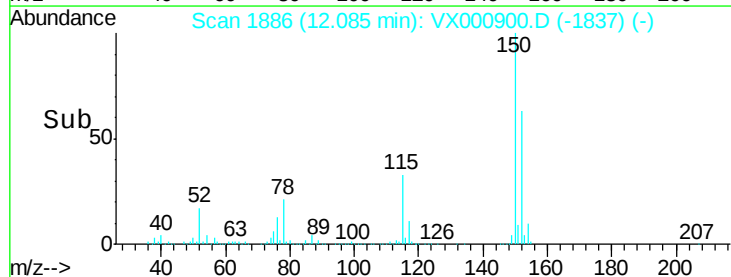
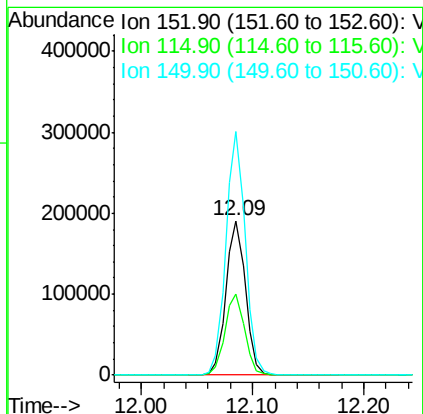
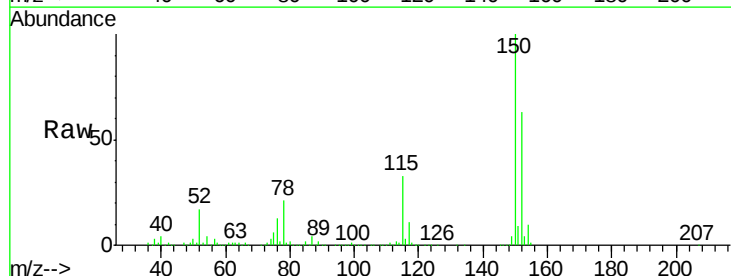
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB108205ZHE#15 5X

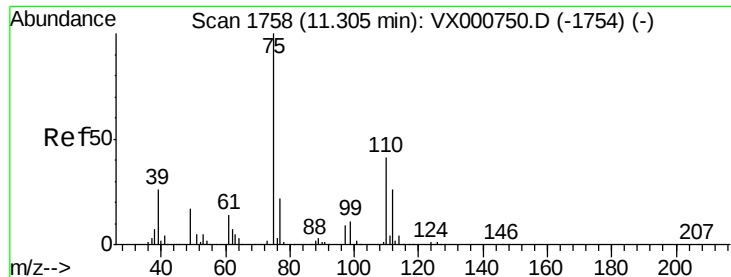
Tgt Ion:117 Resp: 351972  
 Ion Ratio Lower Upper  
 117 100  
 82 50.9 41.9 62.9  
 119 32.0 26.0 39.0



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.09 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX000900.D  
 Acq: 15 Apr 2018 16:37

Tgt Ion:152 Resp: 231311  
 Ion Ratio Lower Upper  
 152 100  
 115 52.9 37.9 113.7  
 150 155.9 0.0 348.0

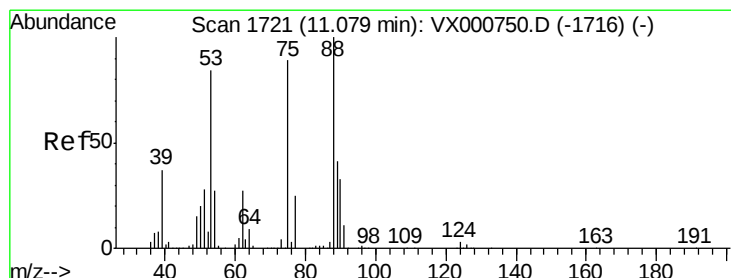
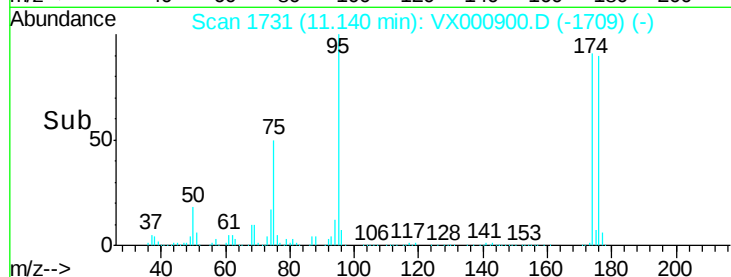
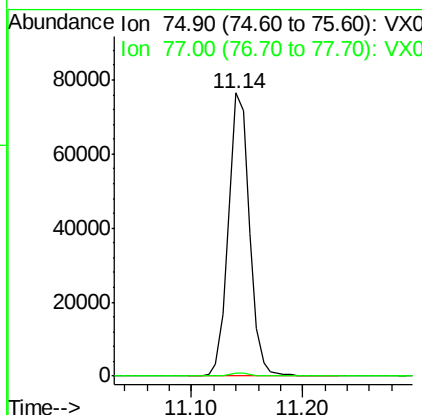
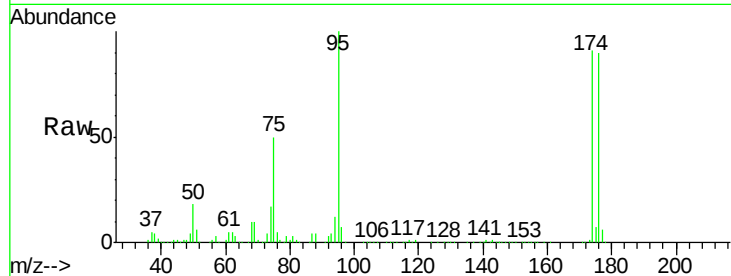




#76  
 1,2,3-Trichloropropane  
 Concen: 25.07 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX000900.D  
 Acq: 15 Apr 2018 16:37

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB108205ZHE#15 5X

Tgt Ion: 75 Resp: 100012  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 20.5 61.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.96 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX000900.D  
 Acq: 15 Apr 2018 16:37

Tgt Ion: 75 Resp: 100012  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 75.4 113.0#  
 89 0.1 40.9 61.3#

