

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043019\  
 Data File : VX009234.D  
 Acq On : 30 Apr 2019 10:33  
 Operator : JC/SP  
 Sample : VX0430MBL01  
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0430MBL01

Quant Time: May 01 01:18:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 30 07:03:50 2019  
 Response via : Initial Calibration

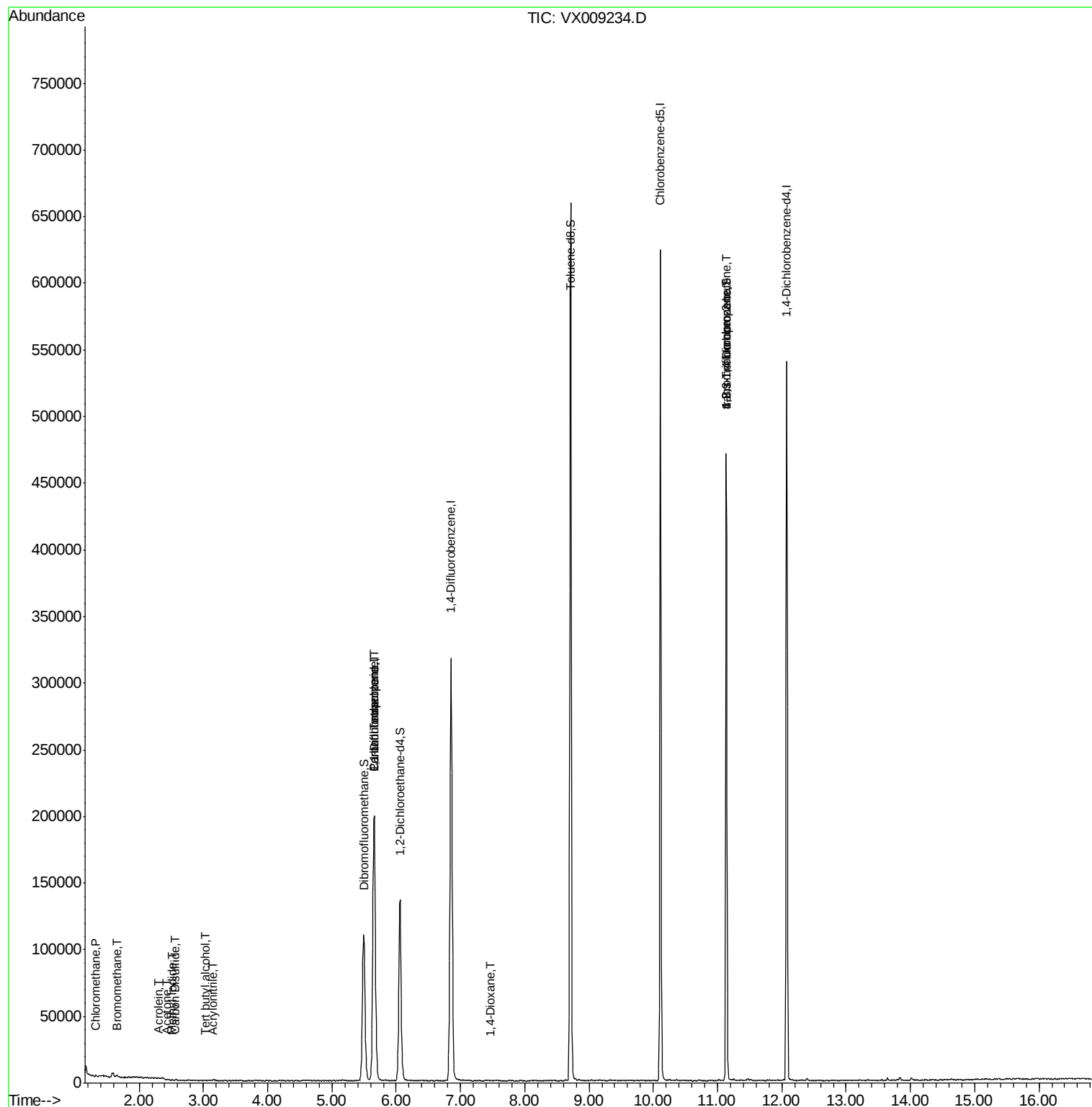
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 5.66   | 168  | 194866   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.85   | 114  | 310683   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 10.11  | 117  | 264507   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.07  | 152  | 111123   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |        |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 6.06   | 65   | 127044   | 47.76     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 95.52% |          |
| 35) Dibromofluoromethane       | 5.49   | 113  | 94240    | 48.25     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 96.50% |          |
| 50) Toluene-d8                 | 8.71   | 98   | 384874   | 48.81     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.62% |          |
| 62) 4-Bromofluorobenzene       | 11.13  | 95   | 123669   | 43.16     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 86.32% |          |
| Target Compounds               |        |      |          |           |        |          |
|                                |        |      |          |           | Qvalue |          |
| 3) Chloromethane               | 1.32   | 50   | 668      | 0.272     | ug/l   | 91       |
| 5) Bromomethane                | 1.66   | 94   | 427      | 0.298     | ug/l   | 93       |
| 10) Methyl Iodide              | 2.51   | 142  | 348      | 4.743     | ug/l # | 72       |
| 11) Tert butyl alcohol         | 3.04   | 59   | 135      | 0.219     | ug/l # | 36       |
| 13) Acrolein                   | 2.30   | 56   | 345      | 0.619     | ug/l   | 91       |
| 15) Acrylonitrile              | 3.14   | 53   | 587      | 0.390     | ug/l # | 88       |
| 16) Acetone                    | 2.44   | 43   | 725      | 0.508     | ug/l   | 93       |
| 17) Carbon Disulfide           | 2.57   | 76   | 1178     | 0.229     | ug/l # | 86       |
| 28) Bromochloromethane         | 5.01   | 49   | 158      | Below Cal | #      | 20       |
| 36) 1,1-Dichloropropene        | 5.65   | 75   | 15211    | 5.268     | ug/l # | 51       |
| 38) Carbon Tetrachloride       | 5.65   | 117  | 18106    | 6.902     | ug/l # | 16       |
| 49) 1,4-Dioxane                | 7.46   | 88   | 26       | 0.402     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane     | 11.13  | 75   | 62960    | 24.425    | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-buten | 11.13  | 75   | 62960    | 62.496    | ug/l # | 10       |

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

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Instrument :  
MSVOA\_X  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
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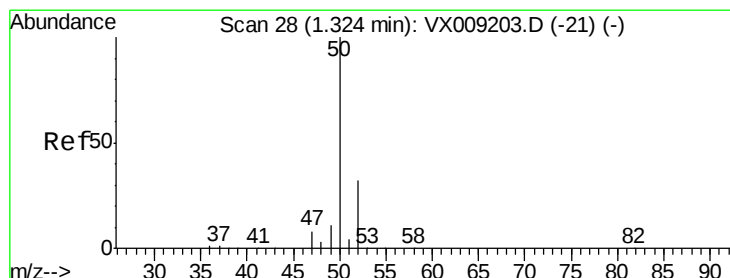
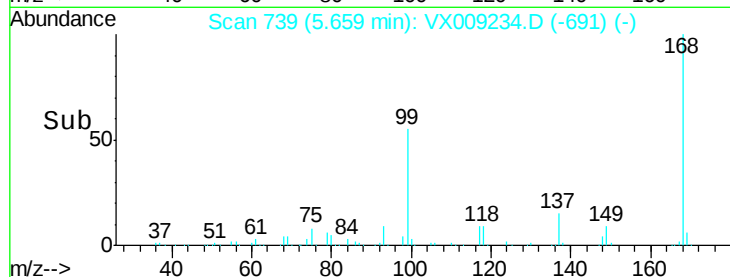
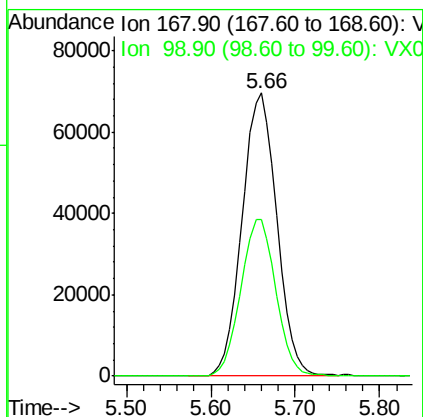
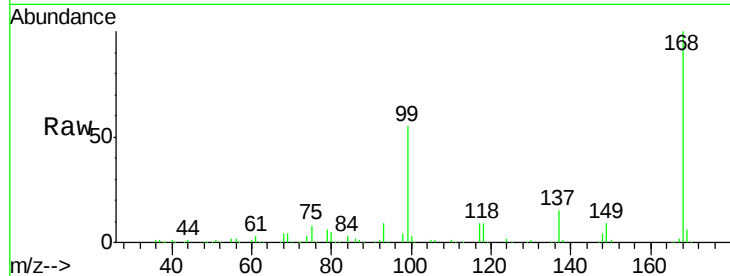




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.01 min  
Lab File: VX009234.D  
Acq: 30 Apr 2019 10:33

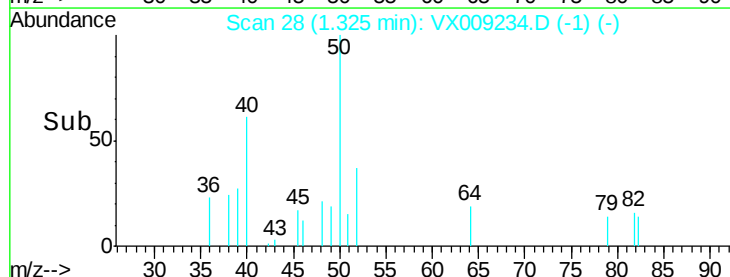
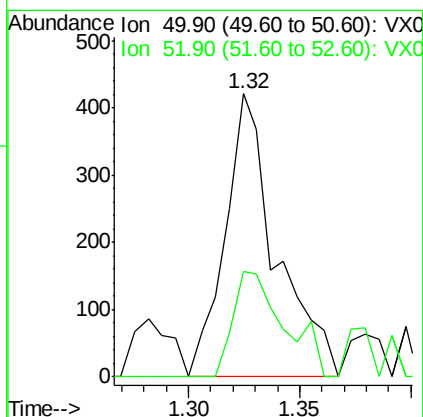
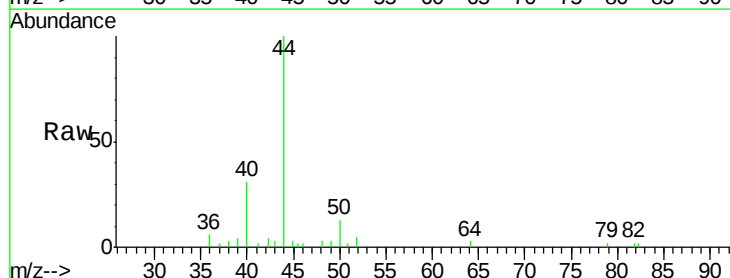
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0430MBL01

Tot Ion:168 Resp: 194866  
Ion Ratio Lower Upper  
168 100  
99 55.2 42.3 63.5



#3  
Chloromethane  
Concen: 0.272 ug/l  
RT: 1.32 min Scan# 28  
Delta R.T. 0.00 min  
Lab File: VX009234.D  
Acq: 30 Apr 2019 10:33

Tgt Ion: 50 Resp: 668  
Ion Ratio Lower Upper  
50 100  
52 37.3 25.9 38.9





#5

Bromomethane

Concen: 0.298 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampleId :

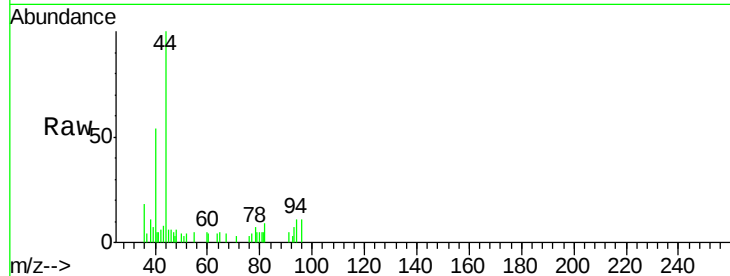
VX0430MBL01

Tot Ion: 94 Resp: 427

Ion Ratio Lower Upper

94 100

96 97.8 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

200

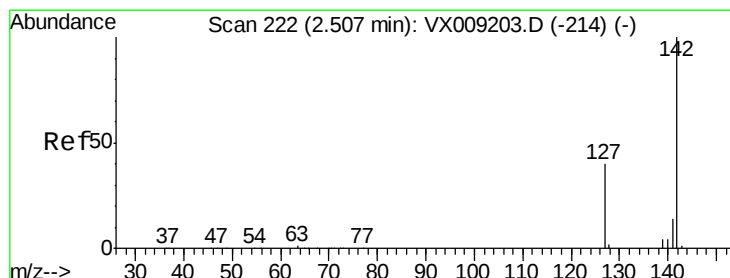
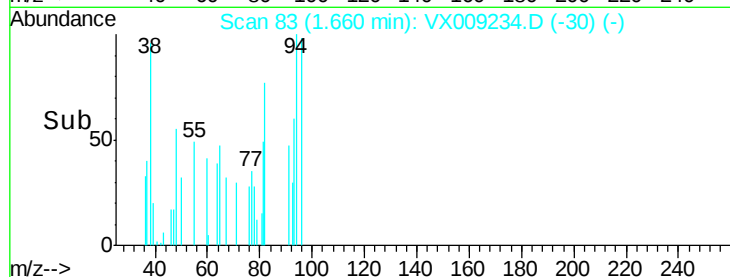
150

100

50

0

Time-->



#10

Methyl Iodide

Concen: 4.743 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

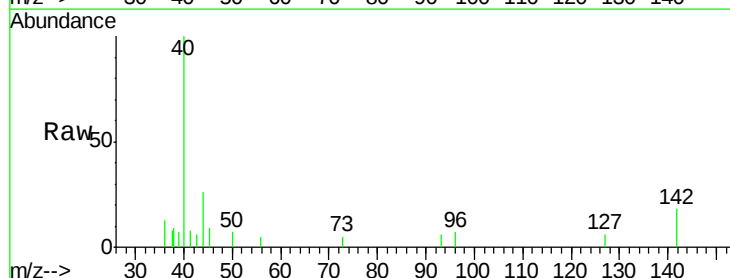
Tgt Ion: 142 Resp: 348

Ion Ratio Lower Upper

142 100

127 25.0 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

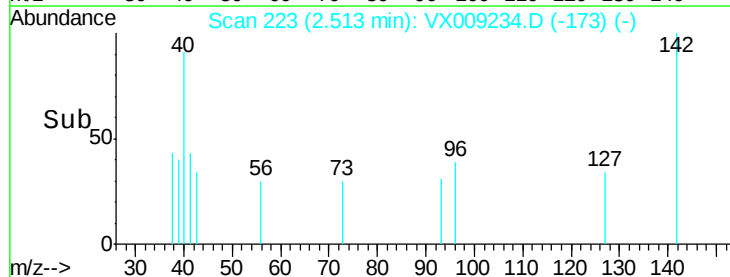
150

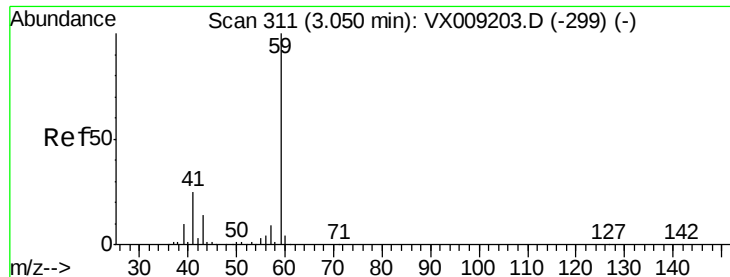
100

50

0

Time-->



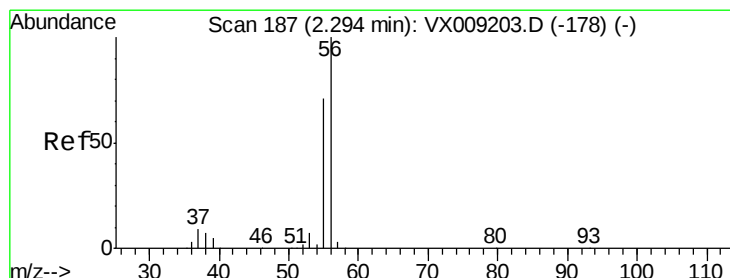
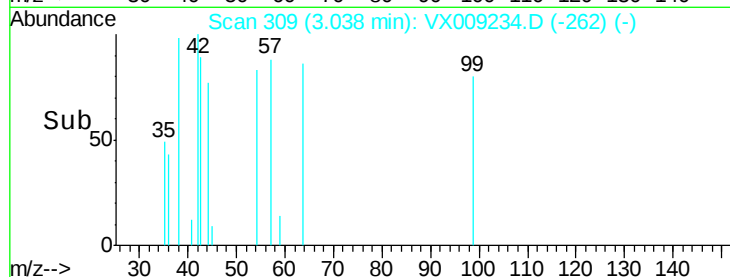
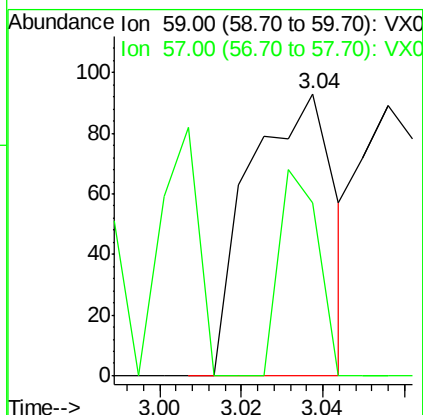
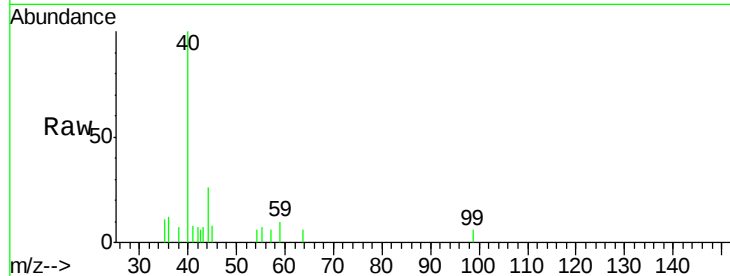


#11

Tert butyl alcohol  
Concen: 0.219 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. -0.01 min  
Lab File: VX009234.D  
Acq: 30 Apr 2019 10:33

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0430MBL01

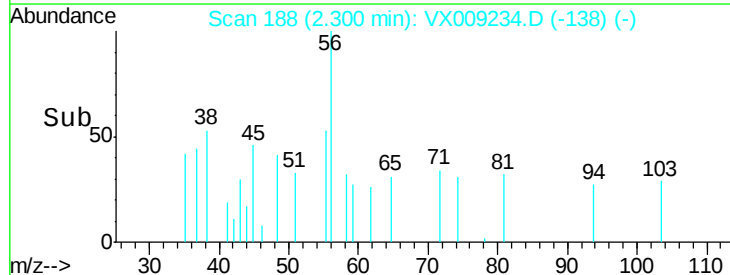
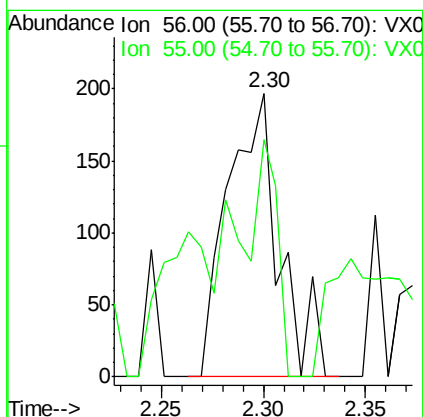
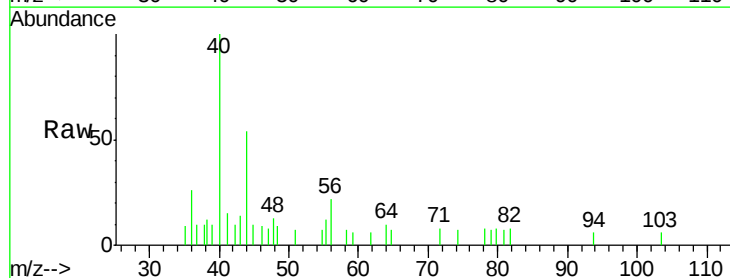
Tot Ion: 59 Resp: 135  
Ion Ratio Lower Upper  
59 100  
57 34.1 8.2 12.2#

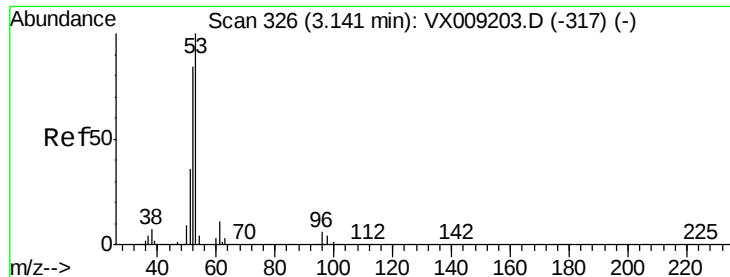


#13

Acrolein  
Concen: 0.619 ug/l  
RT: 2.30 min Scan# 188  
Delta R.T. 0.01 min  
Lab File: VX009234.D  
Acq: 30 Apr 2019 10:33

Tgt Ion: 56 Resp: 345  
Ion Ratio Lower Upper  
56 100  
55 63.2 56.6 85.0





#15

Acrylonitrile

Concen: 0.390 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampled :

VX0430MBL01

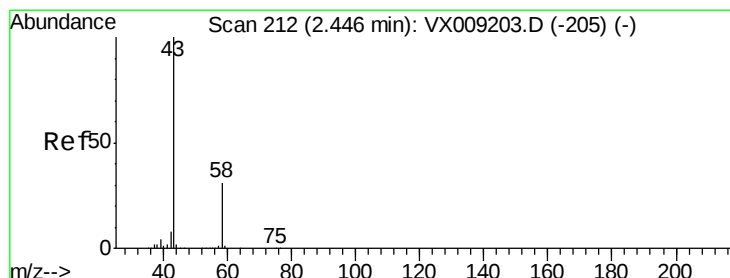
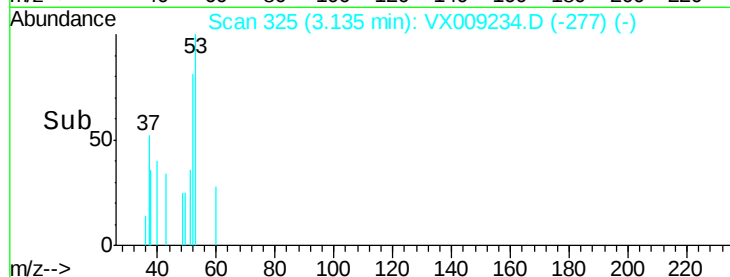
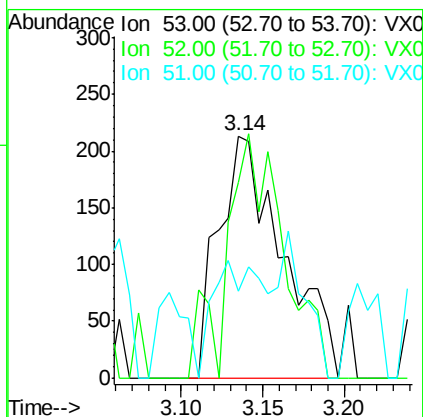
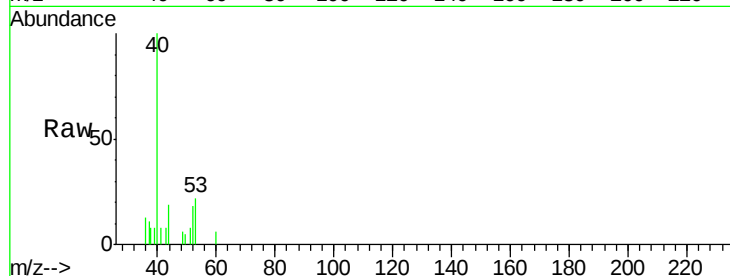
Tot Ion: 53 Resp: 587

Ion Ratio Lower Upper

53 100

52 88.9 66.9 100.3

51 20.6 28.2 42.2#



#16

Acetone

Concen: 0.508 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009234.D

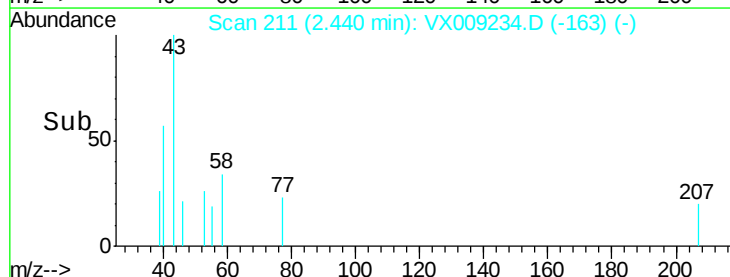
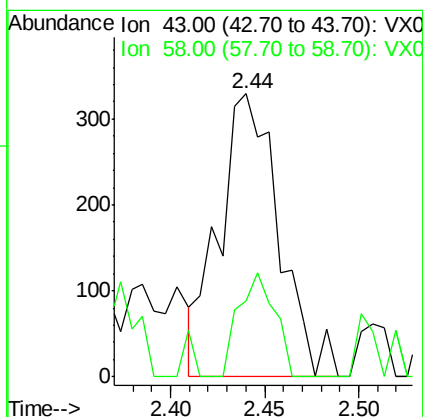
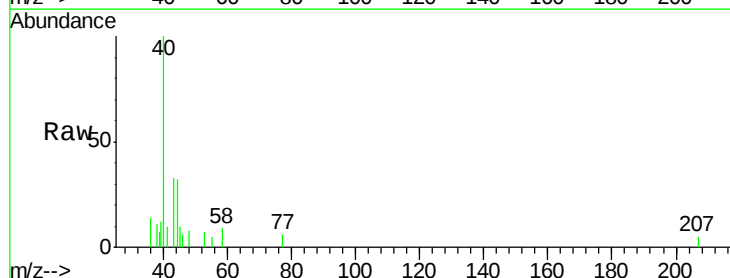
Acq: 30 Apr 2019 10:33

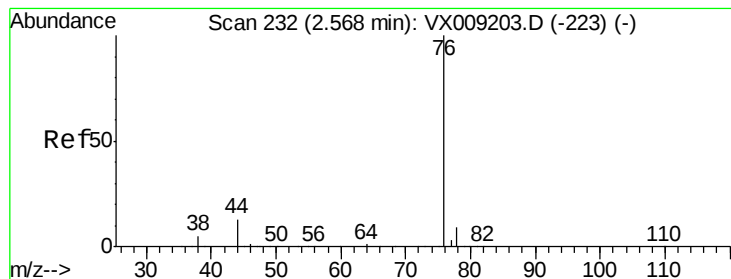
Tgt Ion: 43 Resp: 725

Ion Ratio Lower Upper

43 100

58 27.1 24.9 37.3





#17

Carbon Disulfide

Concen: 0.229 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampleId :

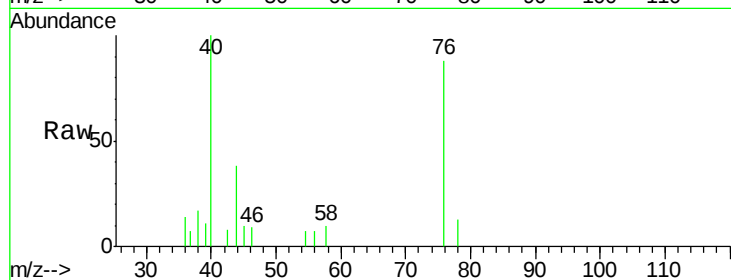
VX0430MBL01

Tot Ion: 76 Resp: 1178

Ion Ratio Lower Upper

76 100

78 14.4 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

800

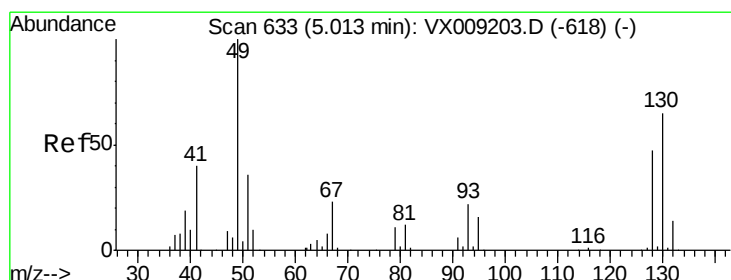
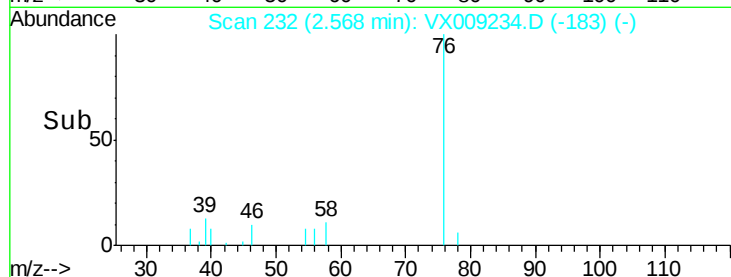
600

400

200

0

Time--> 2.50 2.55 2.60



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

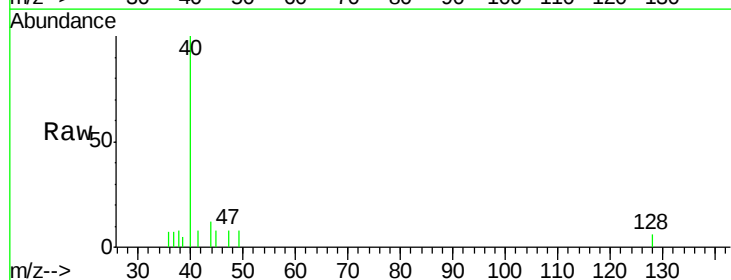
Tgt Ion: 49 Resp: 158

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

100

80

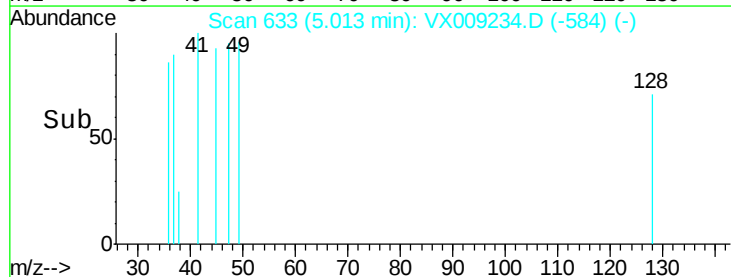
60

40

20

0

Time--> 4.98 5.00 5.02 5.04 5.06





#33

1,2-Dichloroethane-d4

Concen: 47.758 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampled :

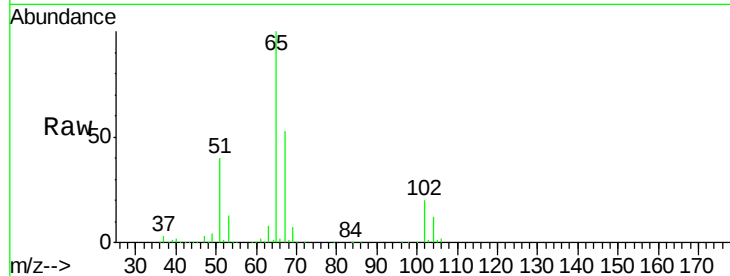
VX0430MBL01

Tot Ion: 65 Resp: 127044

Ion Ratio Lower Upper

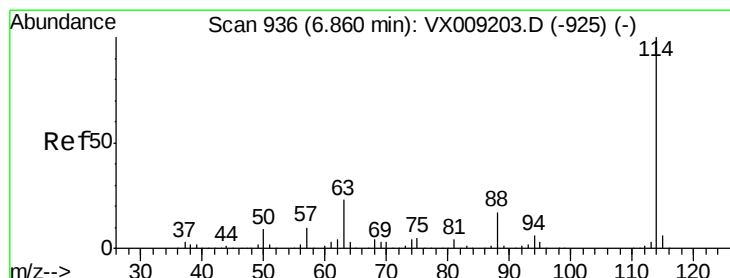
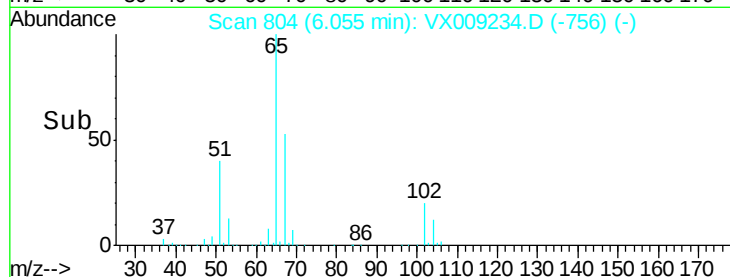
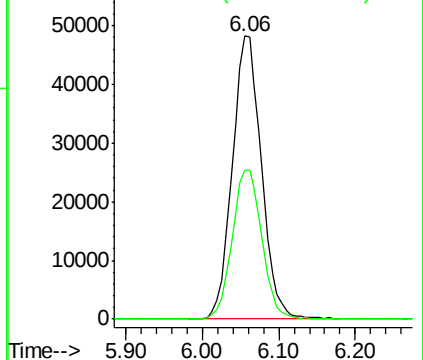
65 100

67 53.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

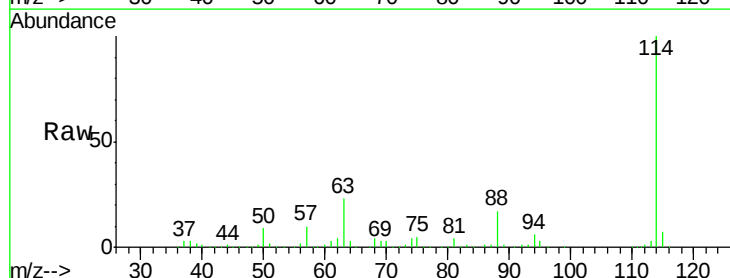
Tgt Ion: 114 Resp: 310683

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

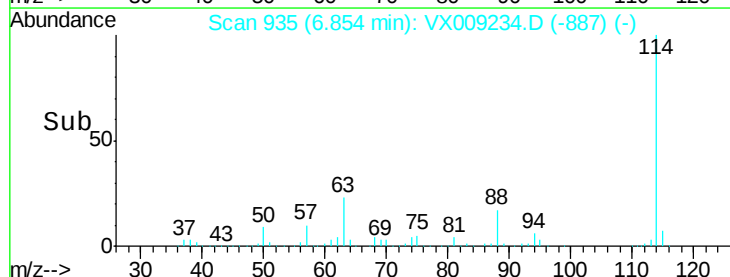
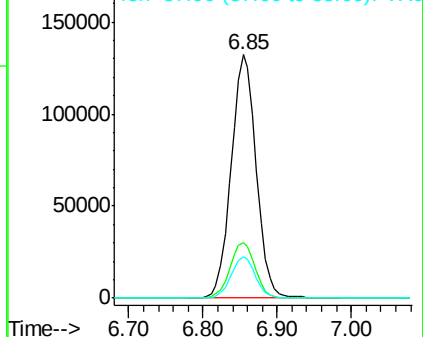
88 16.8 0.0 33.2

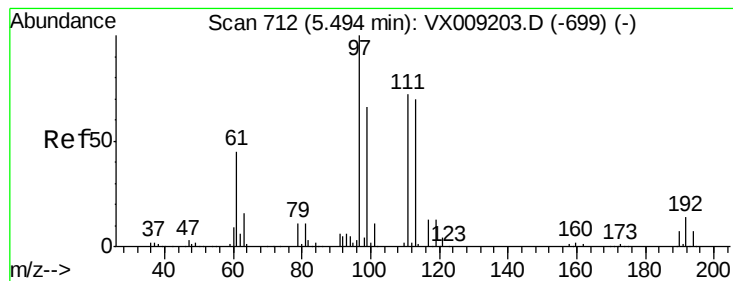


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.252 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampleId :

VX0430MBL01

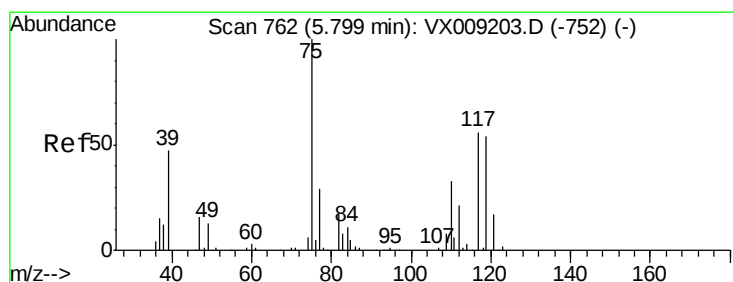
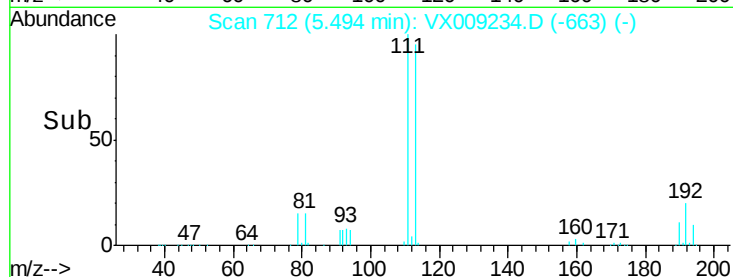
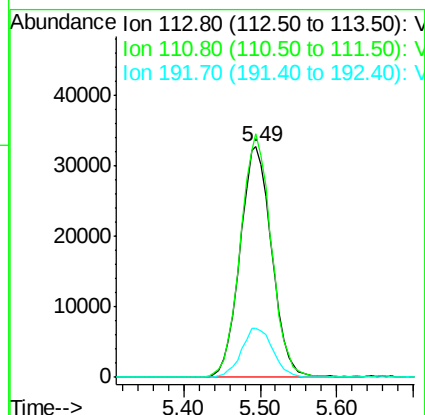
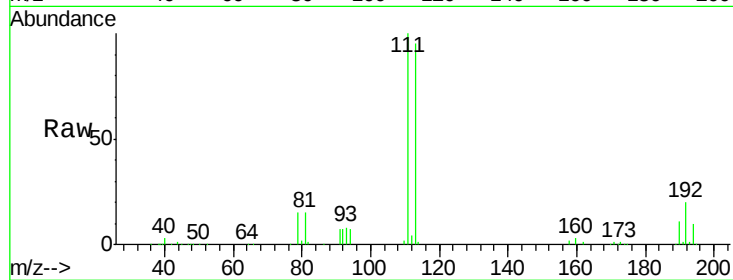
Tot Ion:113 Resp: 94240

Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

192 21.3 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.268 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

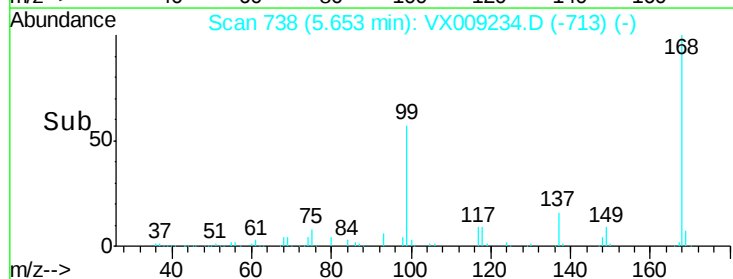
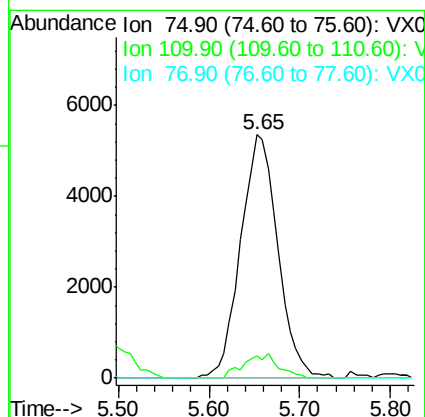
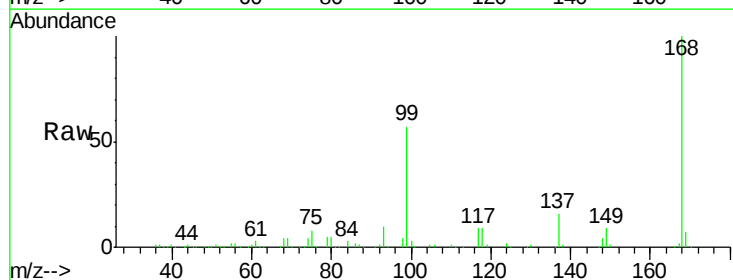
Tgt Ion: 75 Resp: 15211

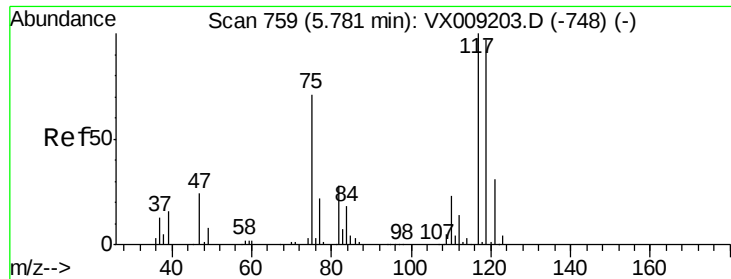
Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.6#

77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.902 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampleId :

VX0430MBL01

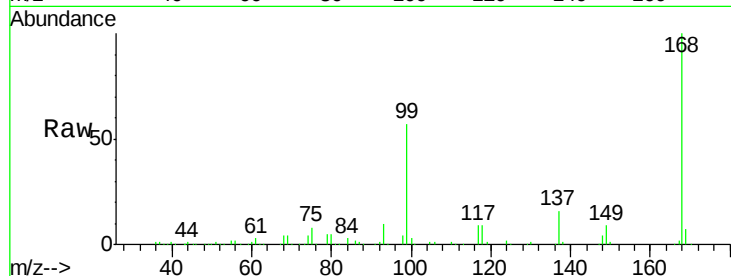
Tot Ion:117 Resp: 18106

Ion Ratio Lower Upper

117 100

119 5.5 77.5 116.3#

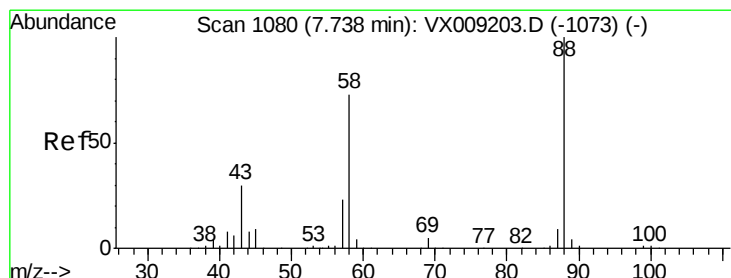
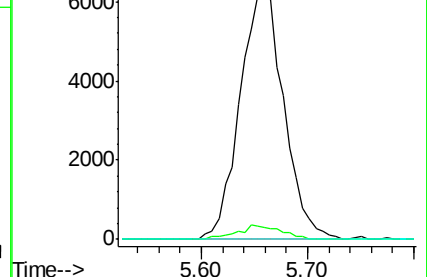
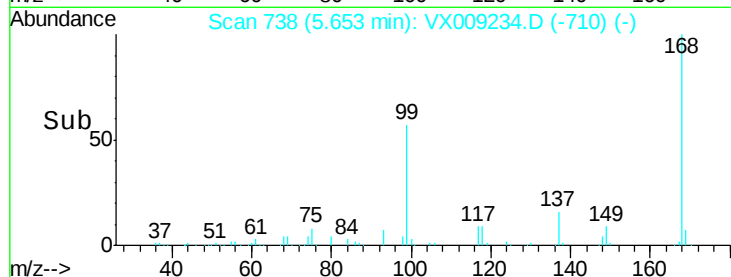
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.402 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.27 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

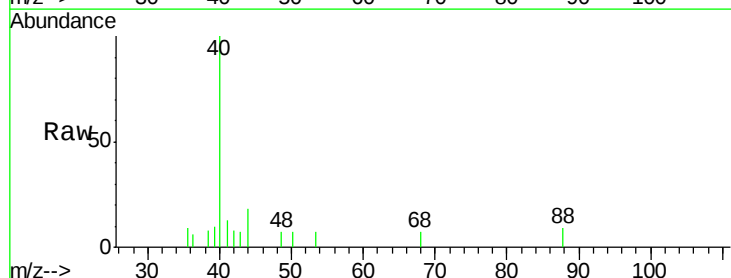
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 669.2 28.6 42.8#

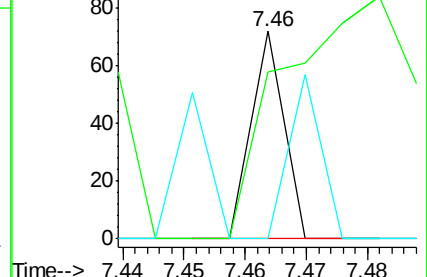
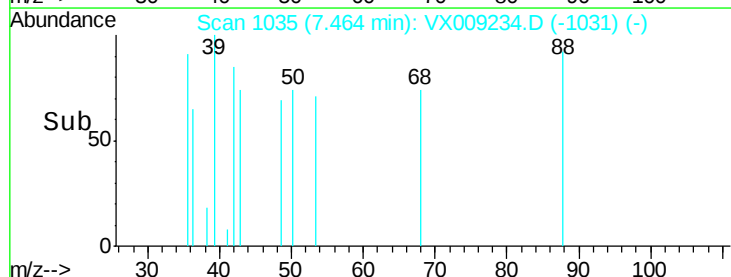
58 80.8 61.7 92.5

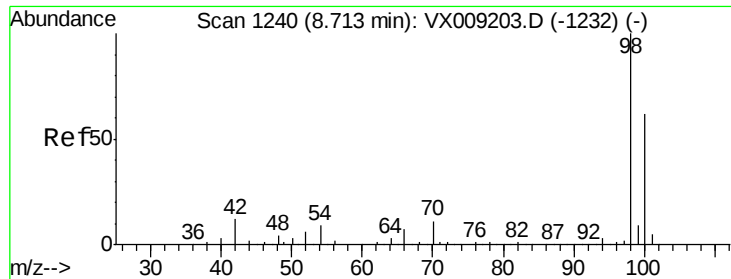


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.811 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampled :

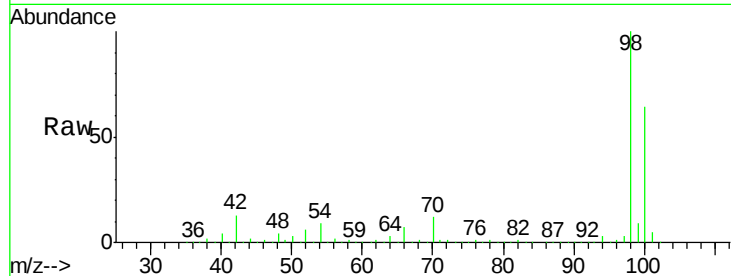
VX0430MBL01

Tot Ion: 98 Resp: 384874

Ion Ratio Lower Upper

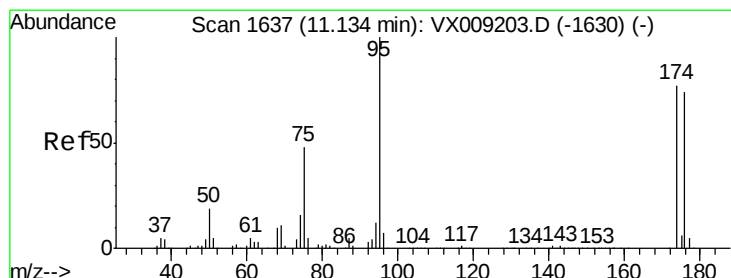
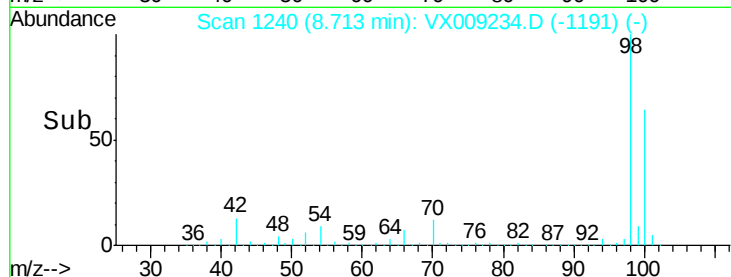
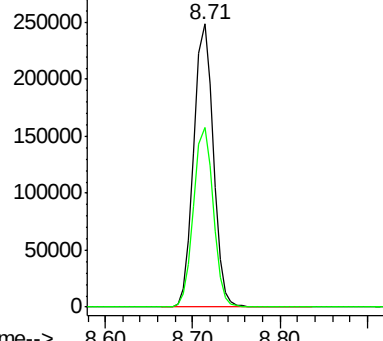
98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.163 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

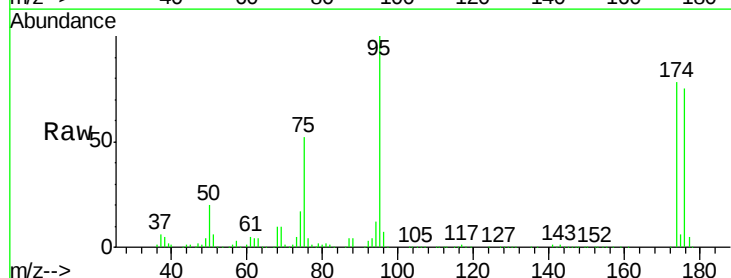
Tgt Ion: 95 Resp: 123669

Ion Ratio Lower Upper

95 100

174 81.6 0.0 161.6

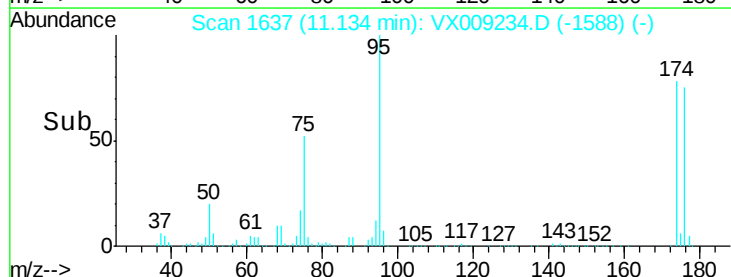
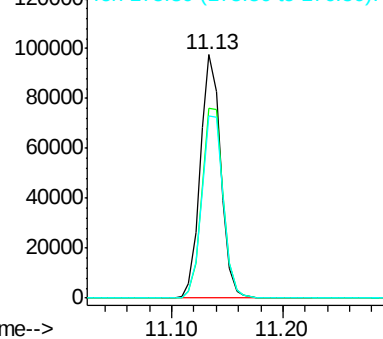
176 79.3 0.0 159.2

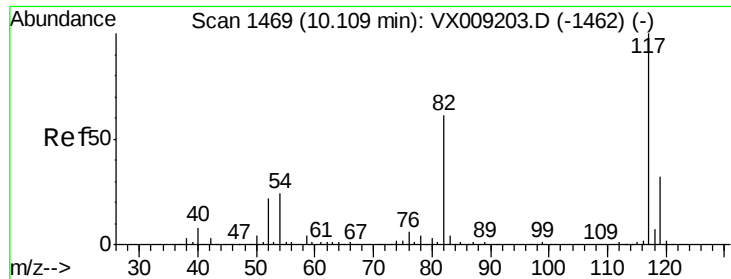


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

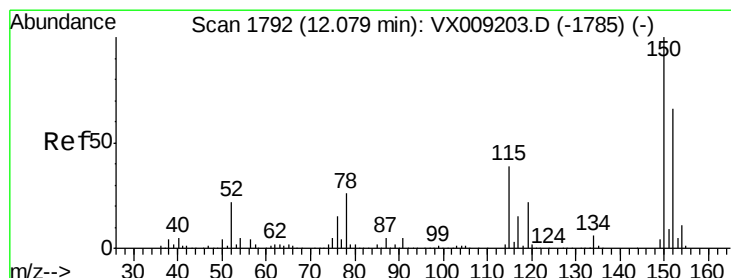
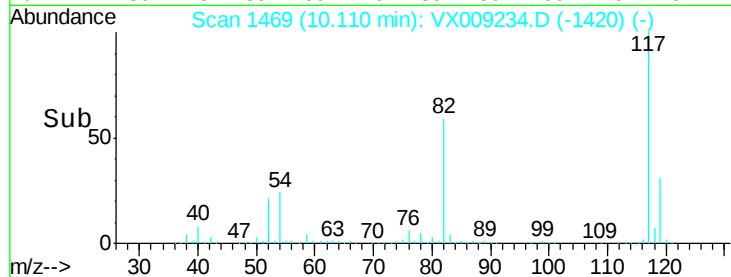
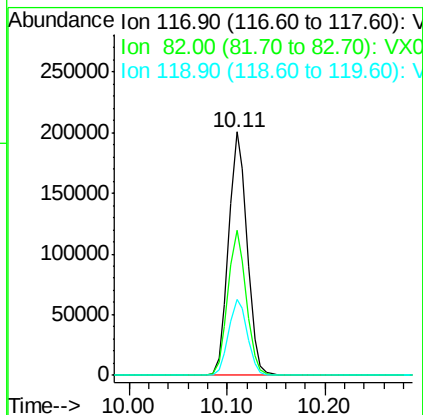
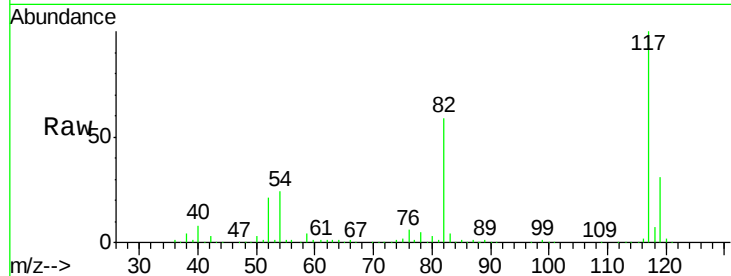




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009234.D  
Acq: 30 Apr 2019 10:33

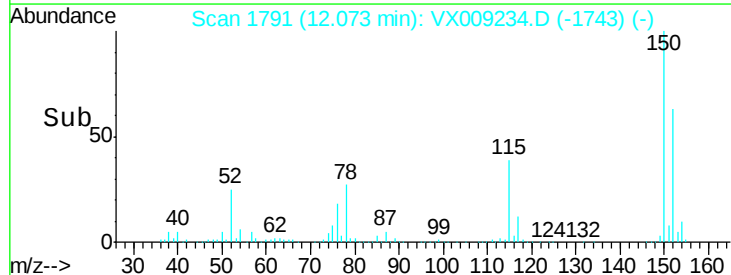
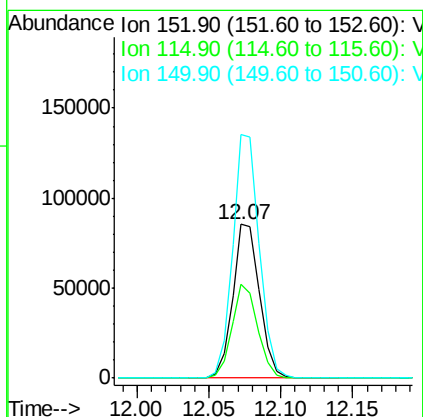
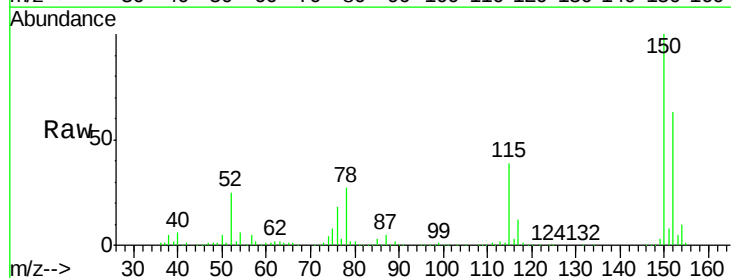
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0430MBL01

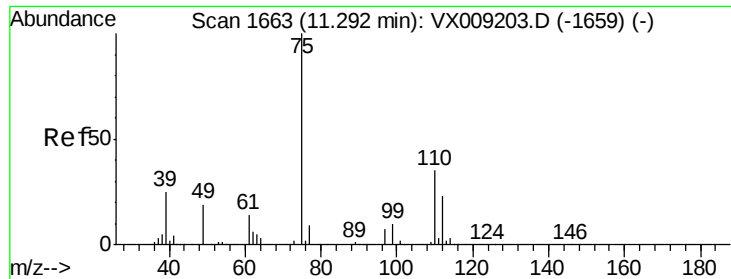
Tot Ion:117 Resp: 264507  
Ion Ratio Lower Upper  
117 100  
82 59.4 48.8 73.2  
119 31.4 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: VX009234.D  
Acq: 30 Apr 2019 10:33

Tgt Ion:152 Resp: 111123  
Ion Ratio Lower Upper  
152 100  
115 58.8 41.2 123.6  
150 157.4 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 24.425 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Instrument :

MSVOA\_X

ClientSampled :

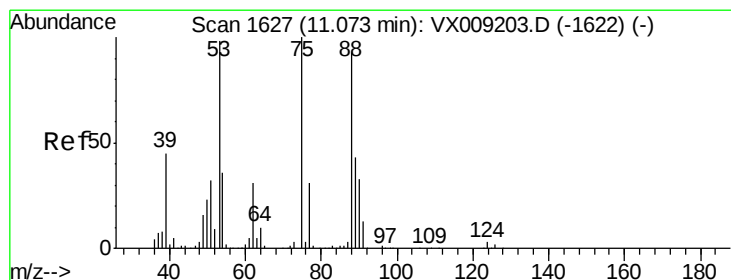
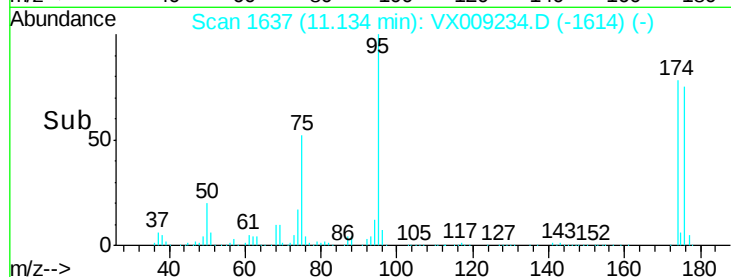
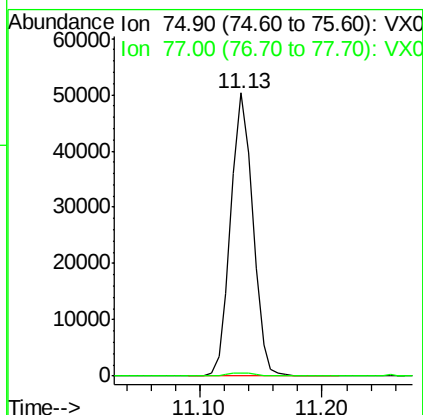
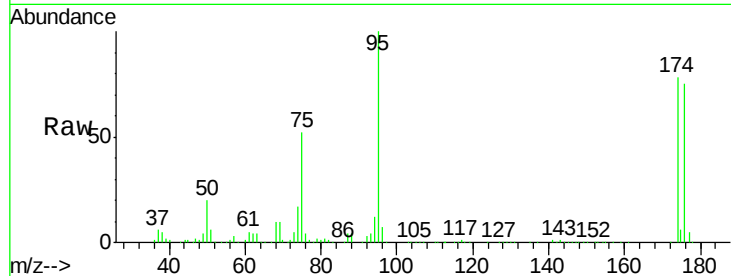
VX0430MBL01

Tot Ion: 75 Resp: 62960

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.496 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009234.D

Acq: 30 Apr 2019 10:33

Tgt Ion: 75 Resp: 62960

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

