

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112618\  
 Data File : VX006167.D  
 Acq On : 26 Nov 2018 11:38  
 Operator : JC/MD  
 Sample : VX1126MBL01  
 Misc : 5.00µl/100µl/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 27 02:25:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 08:15:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 344959   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 512918   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 464986   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 223173   | 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   | 212089   | 53.06  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.12% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 170677   | 51.84  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.68% |          |
| 50) Toluene-d8              | 8.71  | 98   | 612607   | 48.78  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.56%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 207441   | 44.03  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 88.06%  |          |

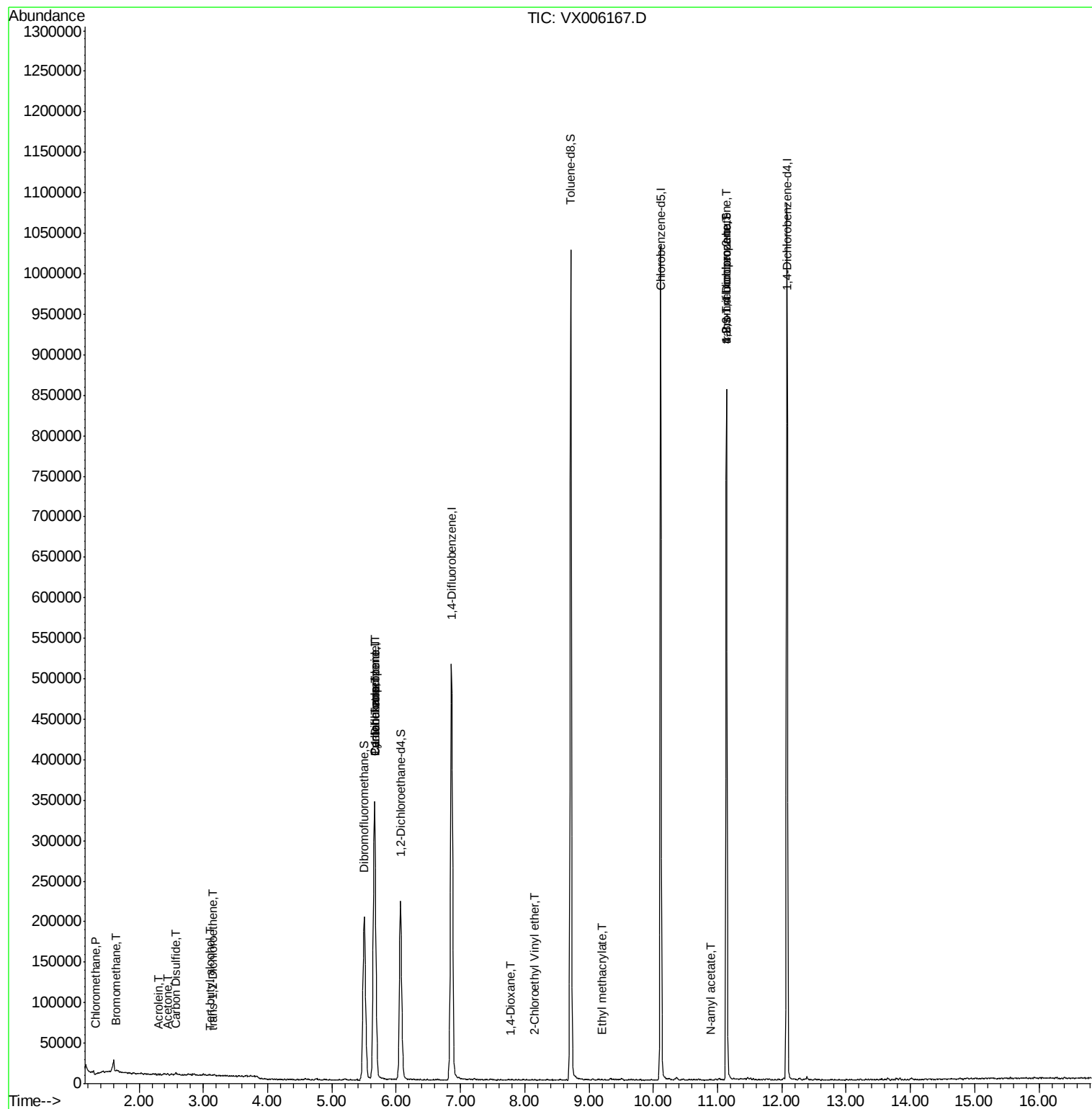
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1215     | 0.375     | ug/l   | 97     |
| 5) Bromomethane                | 1.65  | 94   | 1106     | 4.119     | ug/l   | 83     |
| 6) Chloroethane                | 1.70  | 64   | 711      | Below Cal | #      | 43     |
| 11) Tert butyl alcohol         | 3.10  | 59   | 184      | 0.216     | ug/l # | 1      |
| 13) Acrolein                   | 2.29  | 56   | 244      | 0.480     | ug/l # | 75     |
| 16) Acetone                    | 2.44  | 43   | 1193     | 0.673     | ug/l # | 71     |
| 17) Carbon Disulfide           | 2.57  | 76   | 3764     | 0.560     | ug/l   | 99     |
| 20) Methylene Chloride         | 2.85  | 84   | 878      | Below Cal | #      | 57     |
| 21) trans-1,2-Dichloroethene   | 3.15  | 96   | 530      | 0.203     | ug/l # | 29     |
| 31) Cyclohexane                | 5.66  | 56   | 7063     | 1.316     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 23778    | 5.096     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 31957    | 7.286     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.77  | 88   | 166      | 1.591     | ug/l # | 13     |
| 56) Ethyl methacrylate         | 9.21  | 69   | 96       | 2.881     | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether  | 8.16  | 63   | 91       | 6.749     | ug/l   | 92     |
| 74) N-amyl acetate             | 10.90 | 43   | 257      | 2.228     | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 104297   | 22.700    | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 104297   | 76.775    | ug/l # | 7      |

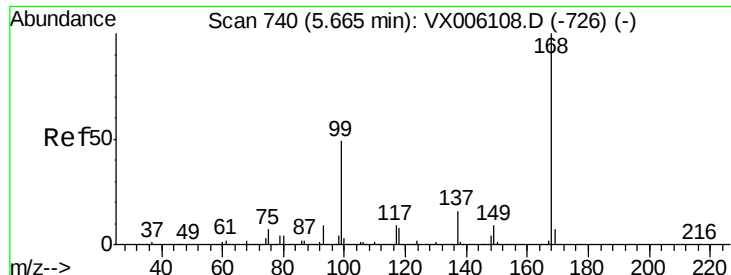
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampled :

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Quant Title : SW846 8260  
QLast Update : Wed Nov 21 08:15:54 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

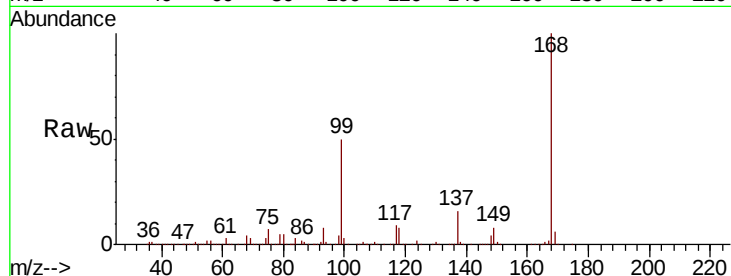
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 344959

Ion Ratio Lower Upper

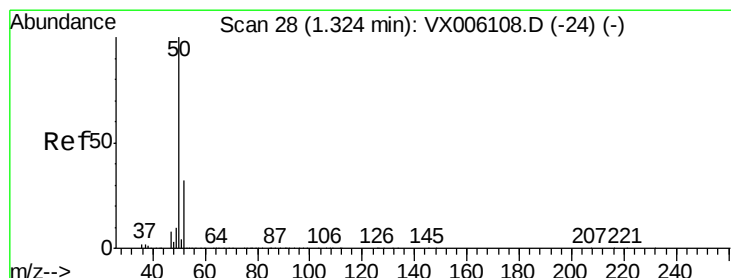
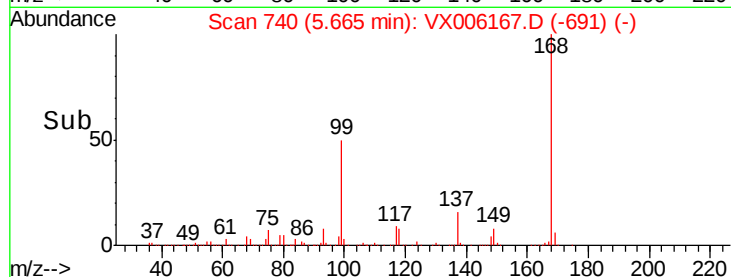
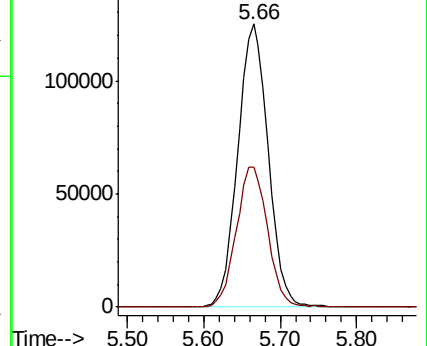
168 100

99 49.5 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.375 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006167.D

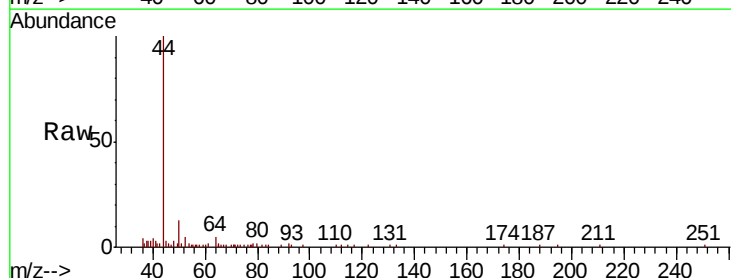
Acq: 26 Nov 2018 11:38

Tgt Ion: 50 Resp: 1215

Ion Ratio Lower Upper

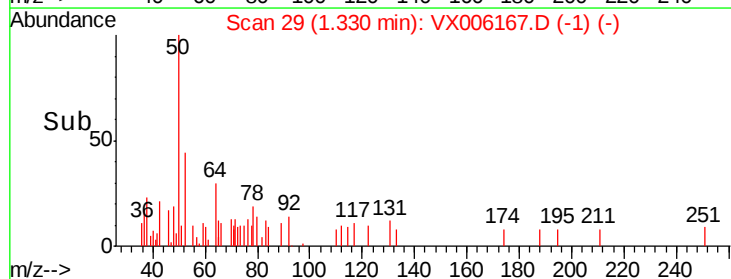
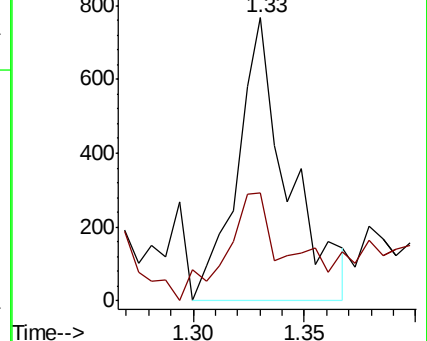
50 100

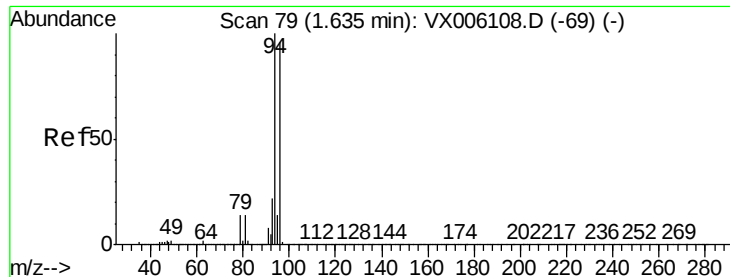
52 30.1 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 4.119 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

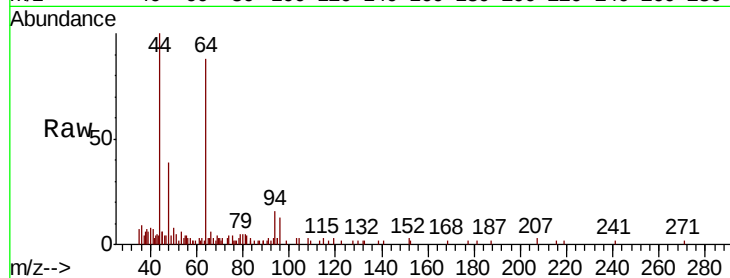
ClientSampleId :

Tot Ion: 94 Resp: 1106

Ion Ratio Lower Upper

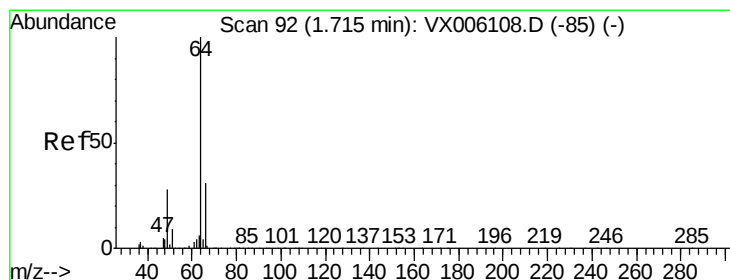
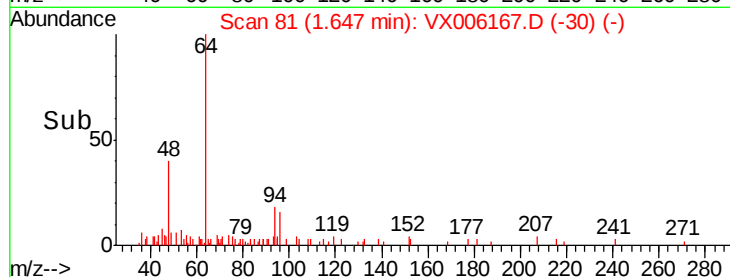
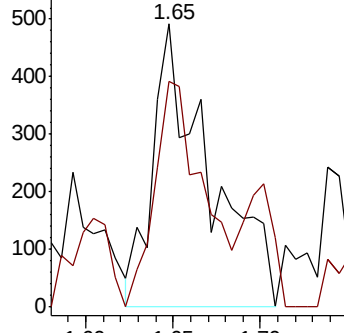
94 100

96 79.5 76.7 115.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX006167.D

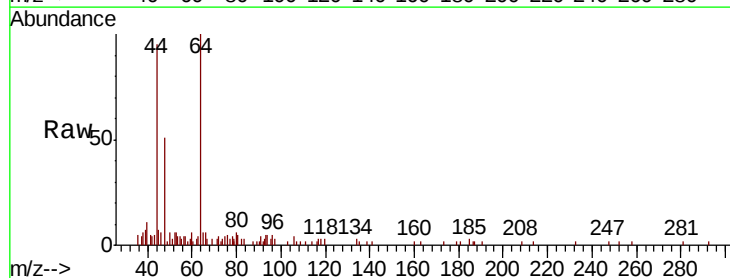
Acq: 26 Nov 2018 11:38

Tgt Ion: 64 Resp: 711

Ion Ratio Lower Upper

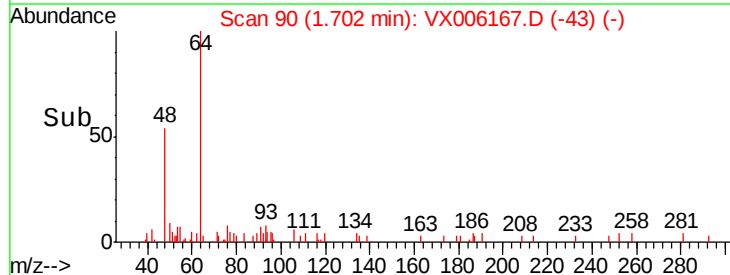
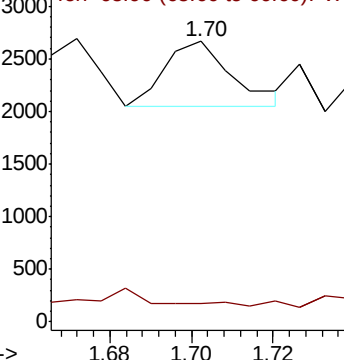
64 100

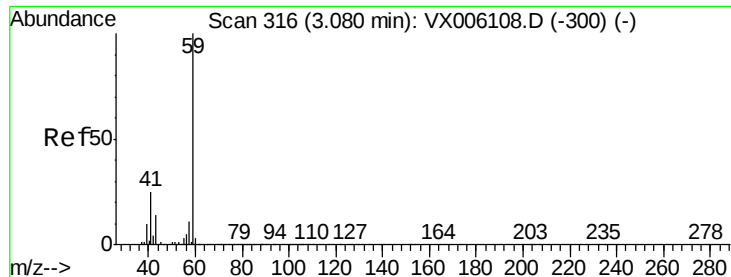
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



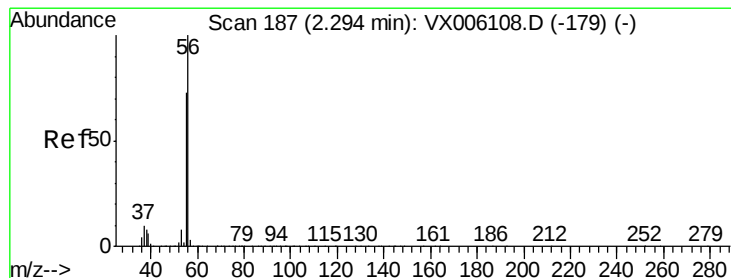
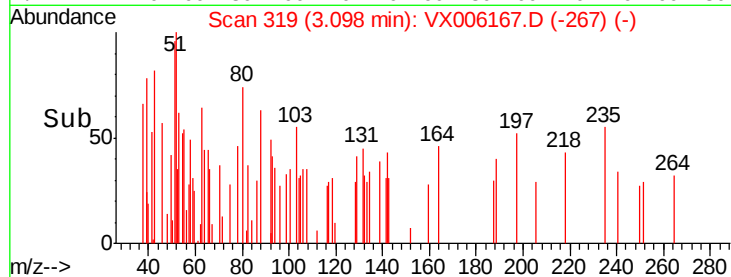
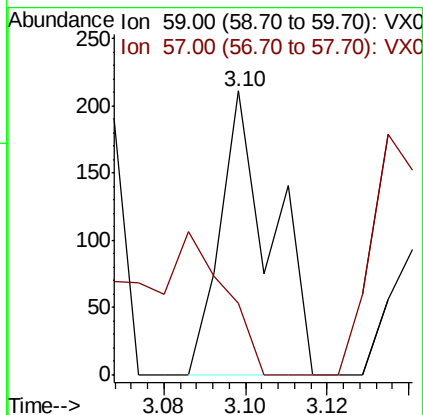
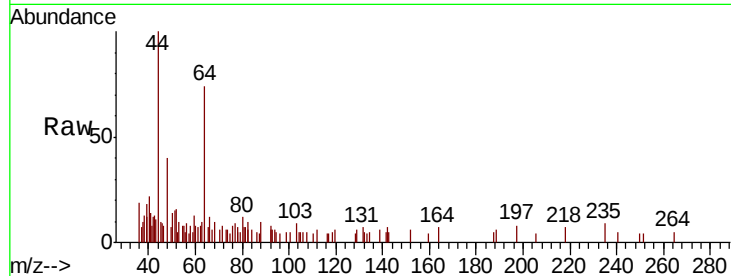


#11

Tert butyl alcohol  
Concen: 0.216 ug/l  
RT: 3.10 min Scan# 319  
Delta R.T. 0.02 min  
Lab File: VX006167.D  
Acq: 26 Nov 2018 11:38

Instrument :  
MSVOA\_X  
ClientSampled :

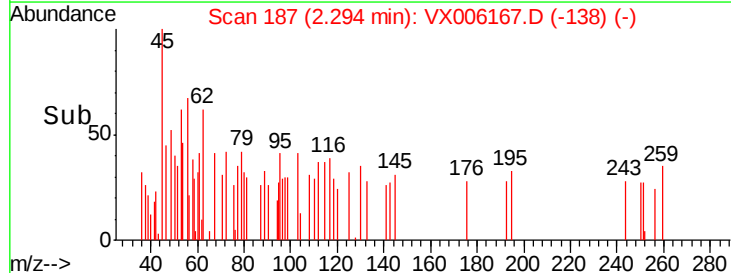
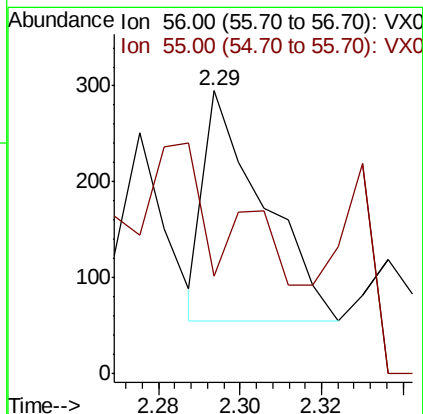
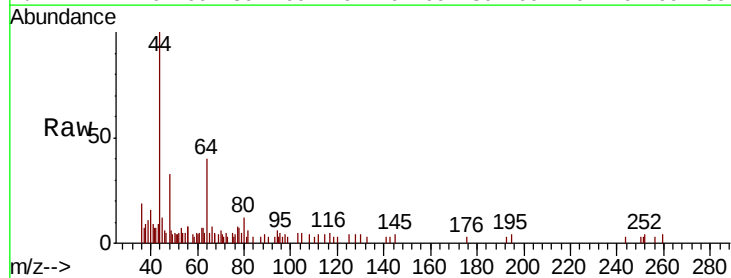
Tot Ion: 59 Resp: 184  
Ion Ratio Lower Upper  
59 100  
57 127.2 8.7 13.1#

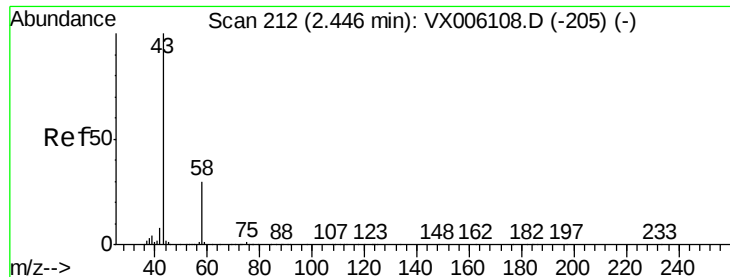


#13

Acrolein  
Concen: 0.480 ug/l  
RT: 2.29 min Scan# 187  
Delta R.T. -0.00 min  
Lab File: VX006167.D  
Acq: 26 Nov 2018 11:38

Tgt Ion: 56 Resp: 244  
Ion Ratio Lower Upper  
56 100  
55 93.0 57.8 86.6#





#16

Acetone

Concen: 0.673 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

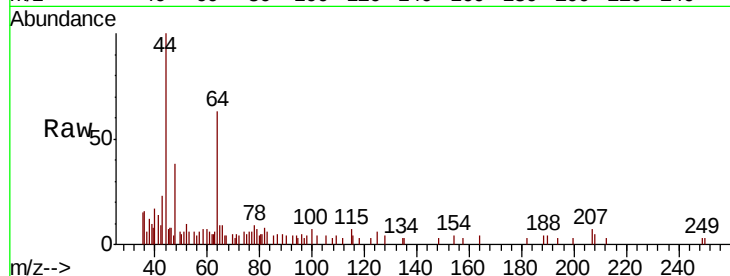
ClientSampled :

Tot Ion: 43 Resp: 1193

Ion Ratio Lower Upper

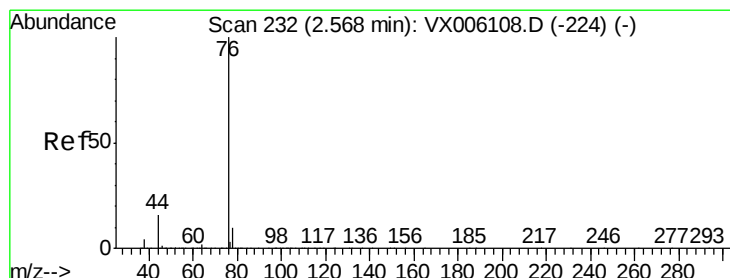
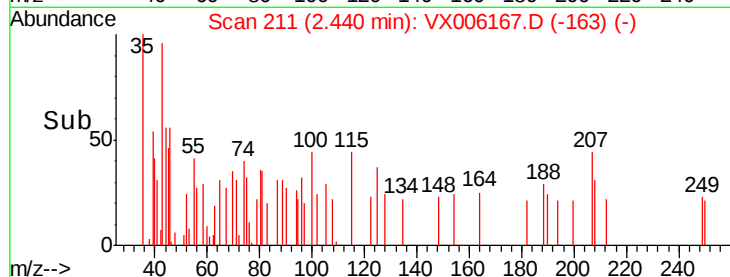
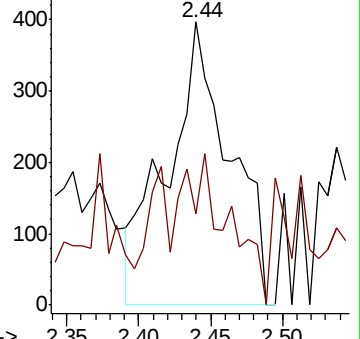
43 100

58 14.4 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.560 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006167.D

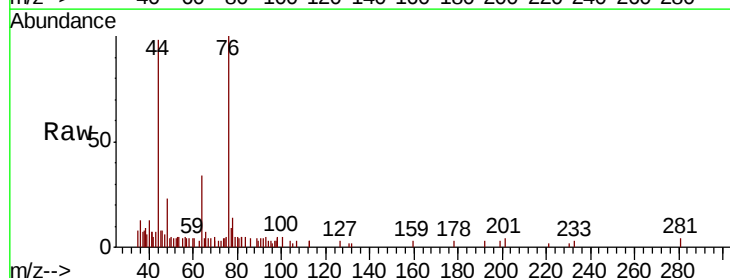
Acq: 26 Nov 2018 11:38

Tgt Ion: 76 Resp: 3764

Ion Ratio Lower Upper

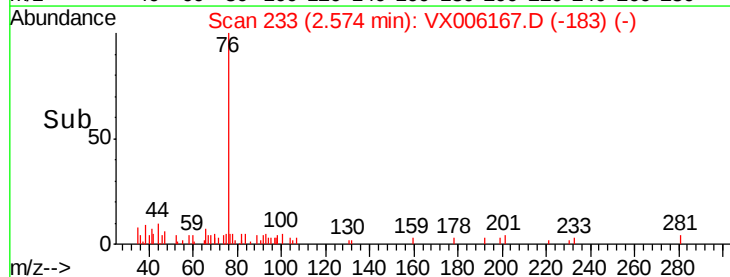
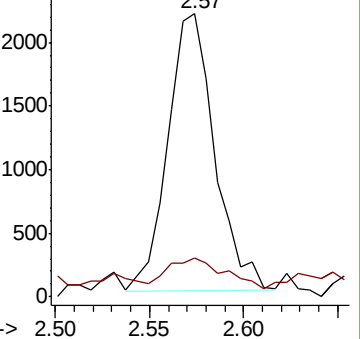
76 100

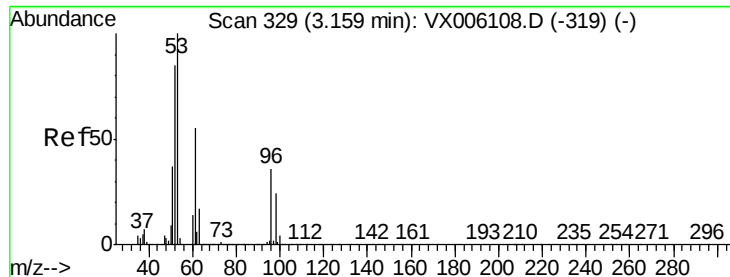
78 9.1 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.203 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.01 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

ClientSampleId :

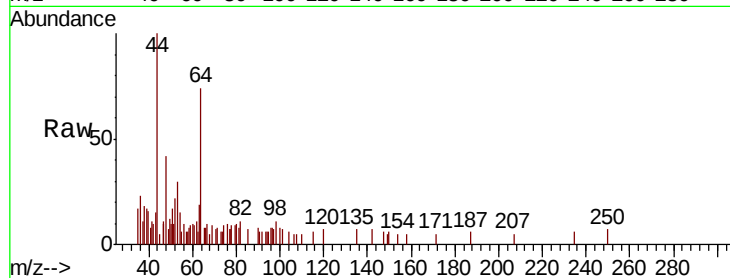
Tot Ion: 96 Resp: 530

Ion Ratio Lower Upper

96 100

61 24.7 122.0 183.0#

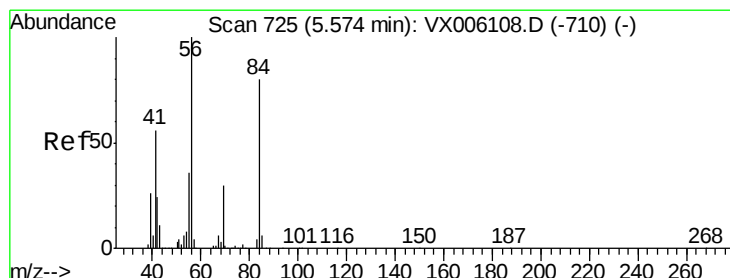
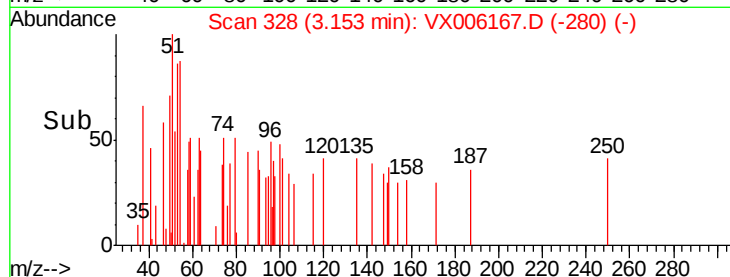
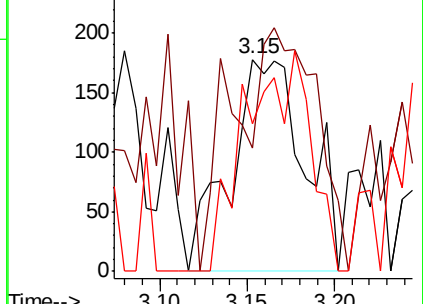
98 69.7 52.7 79.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 1.316 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

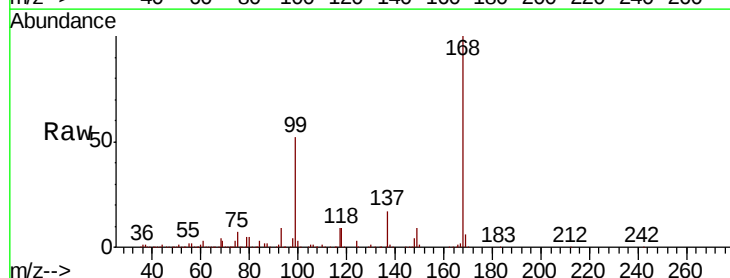
Tgt Ion: 56 Resp: 7063

Ion Ratio Lower Upper

56 100

69 174.1 23.9 35.9#

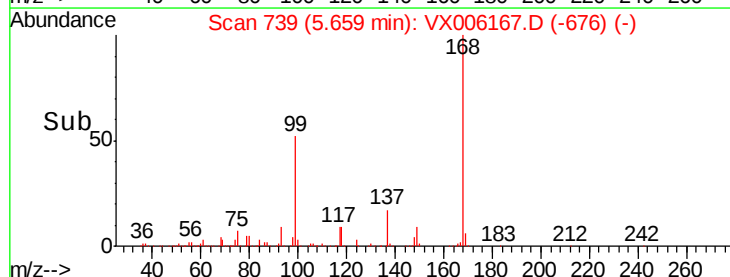
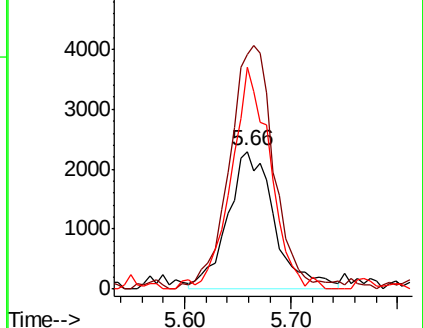
84 168.1 63.6 95.4#

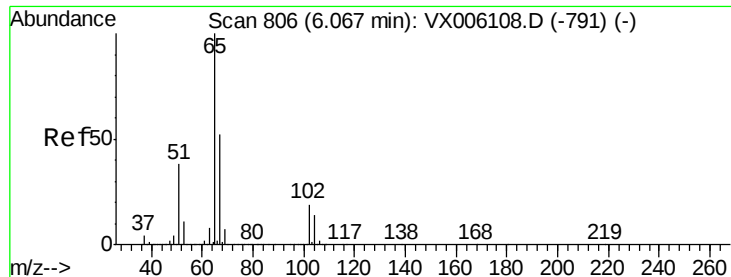


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 53.059 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

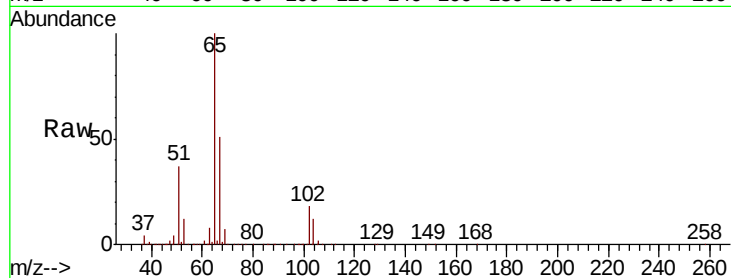
ClientSampleId :

Tot Ion: 65 Resp: 212089

Ion Ratio Lower Upper

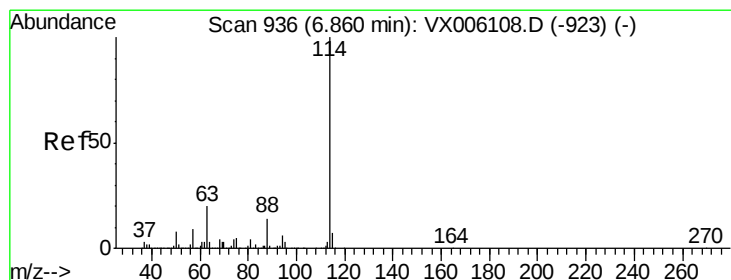
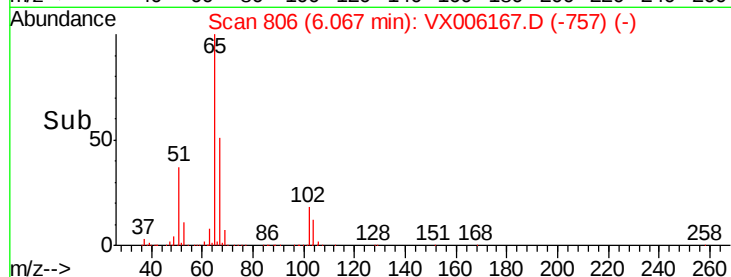
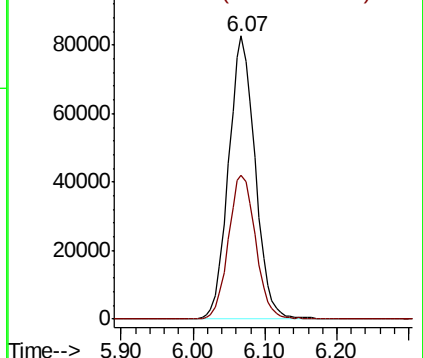
65 100

67 52.3 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

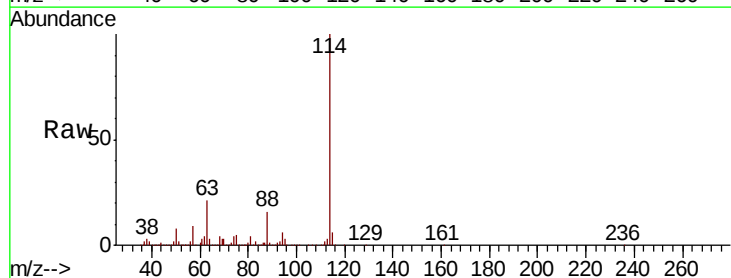
Tgt Ion:114 Resp: 512918

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.2

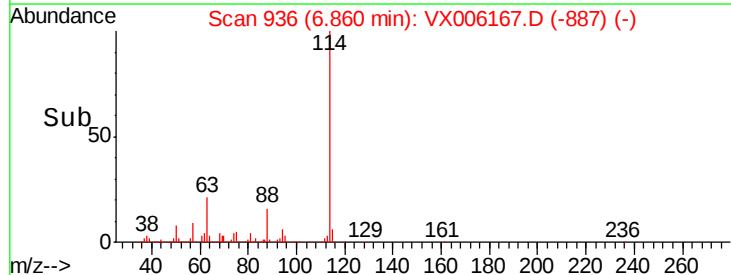
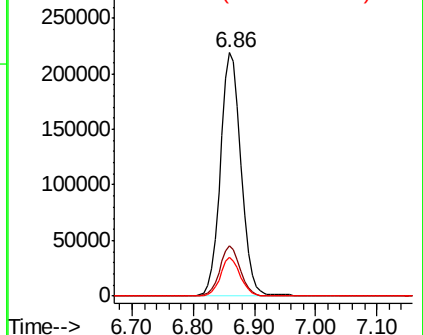
88 15.9 0.0 28.6

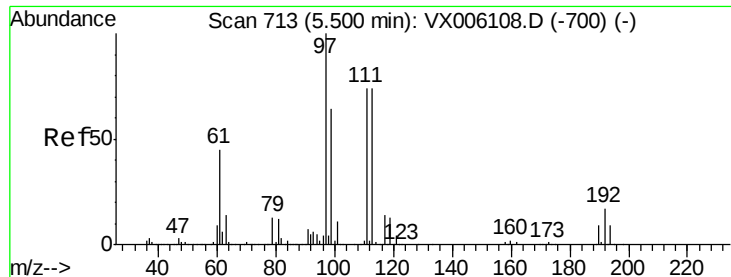


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.838 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

ClientSampleId :

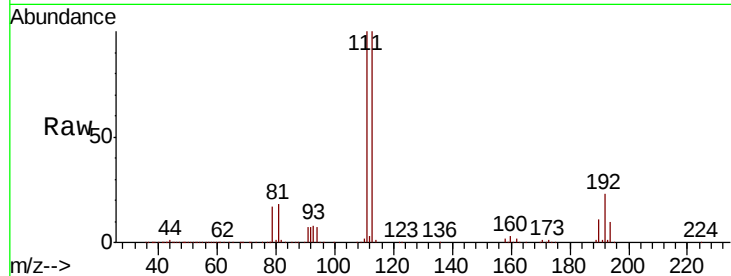
Tot Ion:113 Resp: 170677

Ion Ratio Lower Upper

113 100

111 103.8 81.5 122.3

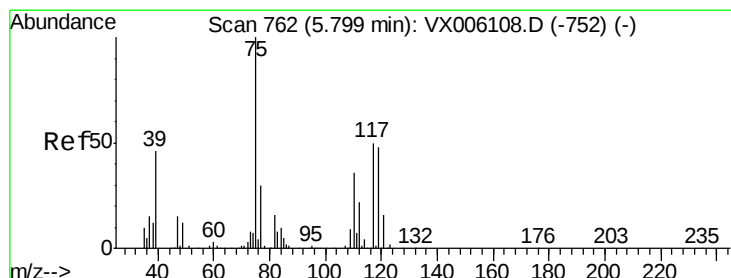
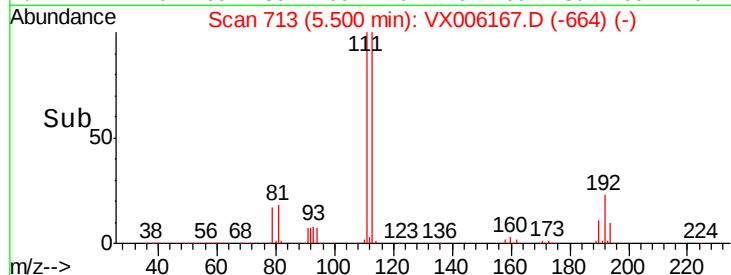
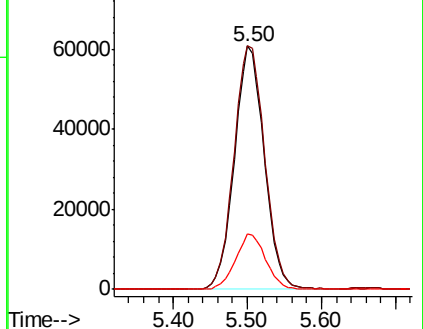
192 22.9 18.6 28.0



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: 5.096 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

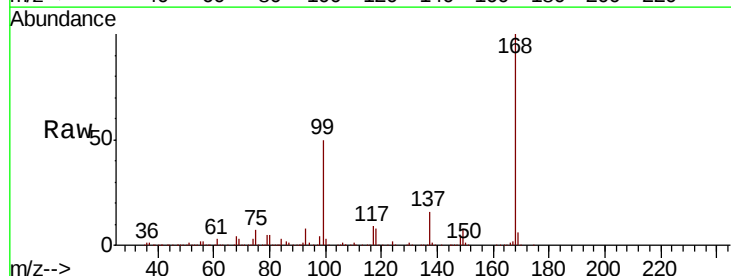
Tgt Ion: 75 Resp: 23778

Ion Ratio Lower Upper

75 100

110 9.4 17.8 53.3#

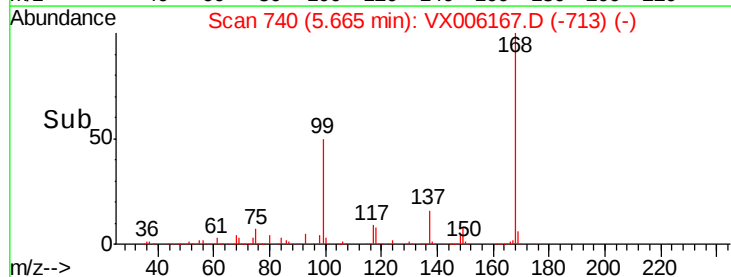
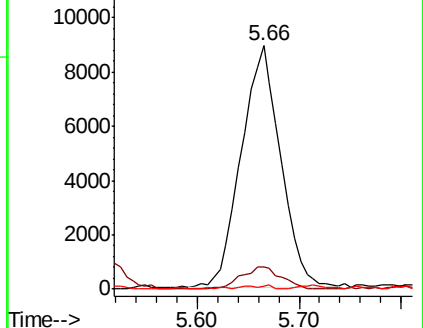
77 0.5 24.5 36.7#

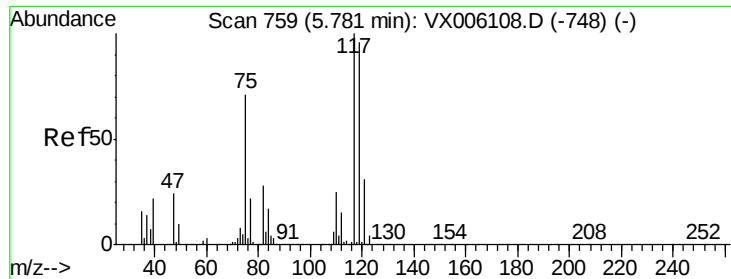


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.286 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

ClientSampled :

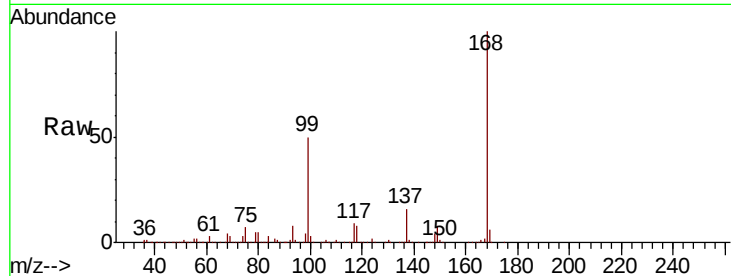
Tot Ion:117 Resp: 31957

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

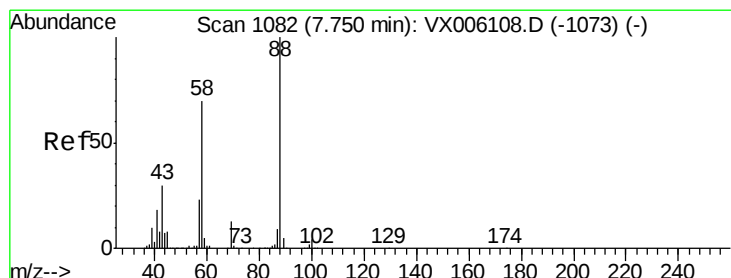
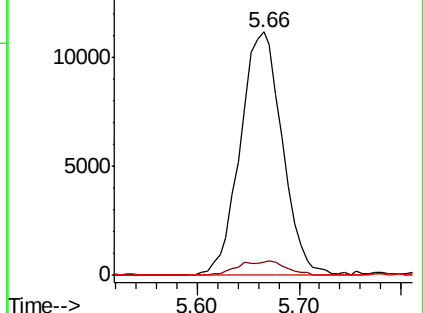
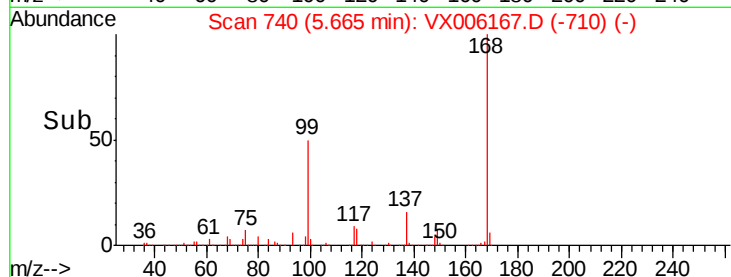
121 0.0 24.7 37.1#



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: 1.591 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

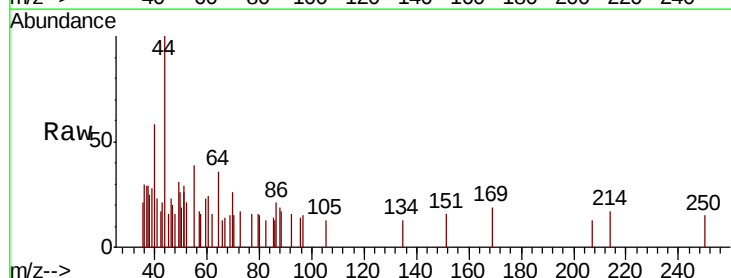
Tgt Ion: 88 Resp: 166

Ion Ratio Lower Upper

88 100

43 50.0 26.7 40.1#

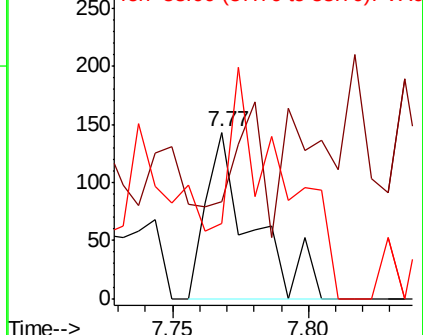
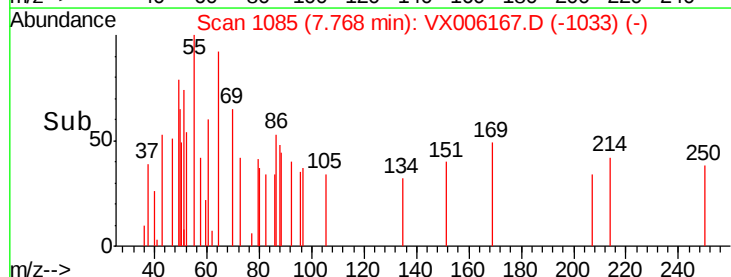
58 168.7 58.5 87.7#

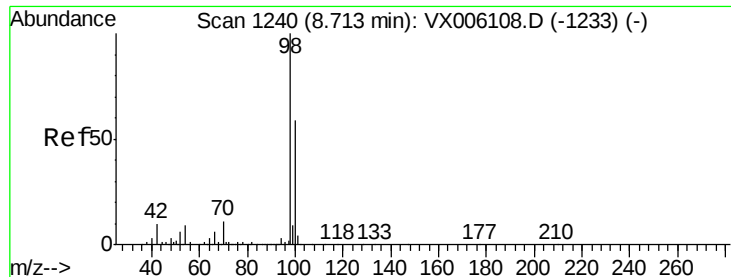


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.781 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

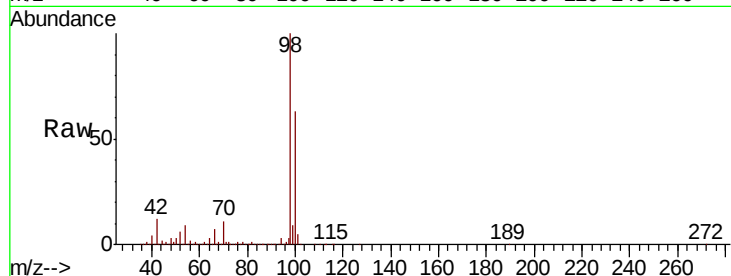
ClientSampleId :

Tot Ion: 98 Resp: 612607

Ion Ratio Lower Upper

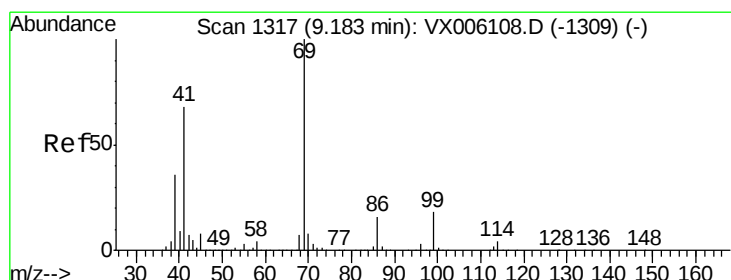
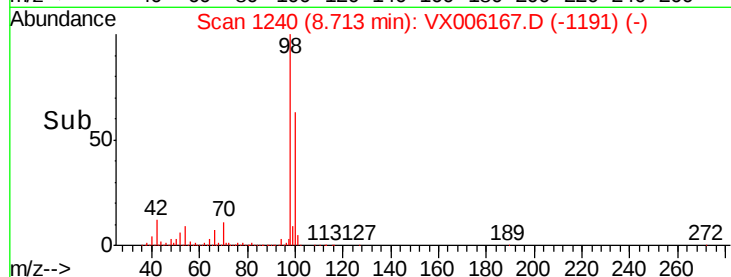
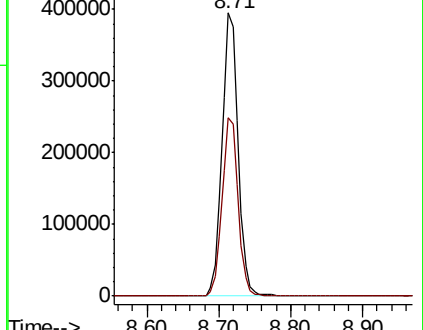
98 100

100 62.9 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#56

Ethyl methacrylate

Concen: 2.881 ug/l

RT: 9.21 min Scan# 1321

Delta R.T. 0.02 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

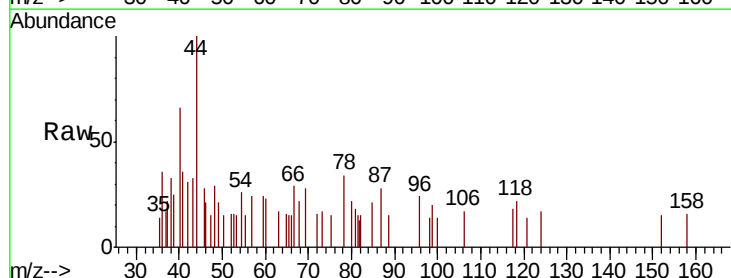
Tgt Ion: 69 Resp: 96

Ion Ratio Lower Upper

69 100

41 297.9 56.2 84.4#

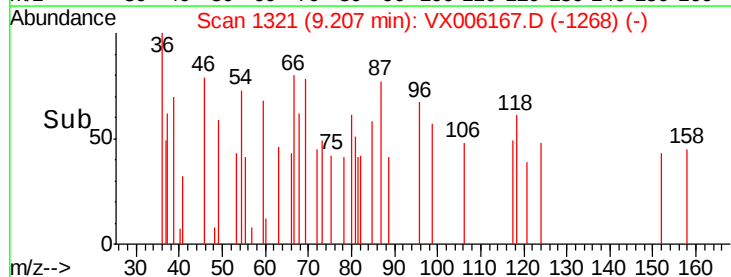
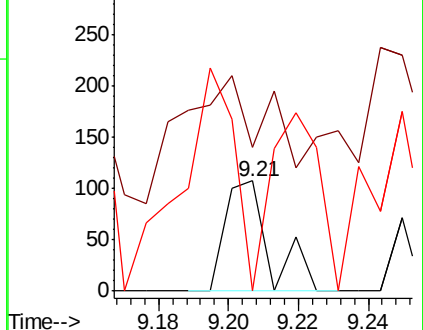
39 217.7 29.4 44.0#

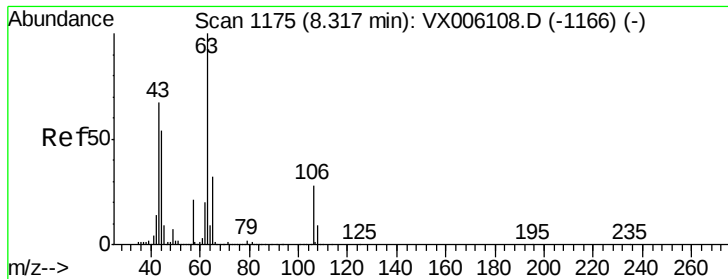


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#58

2-Chloroethyl Vinyl ether

Concen: 6.749 ug/l

RT: 8.16 min Scan# 1150

Delta R.T. -0.15 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

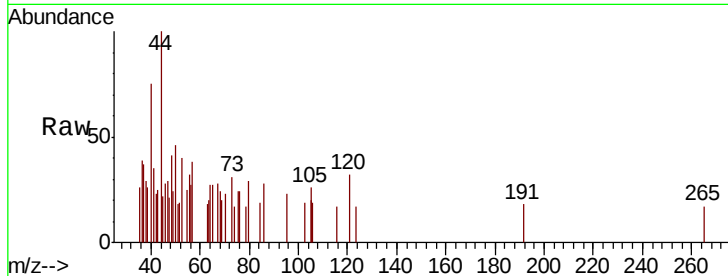
ClientSampled :

Tot Ion: 63 Resp: 91

Ion Ratio Lower Upper

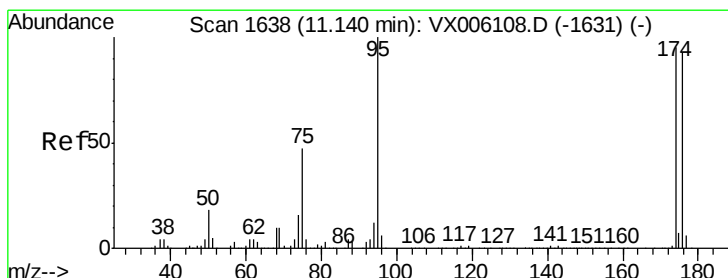
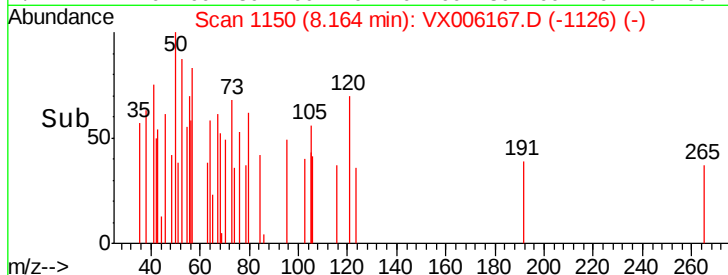
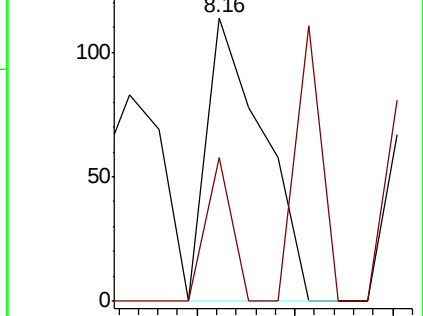
63 100

106 23.1 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V



#62

4-Bromofluorobenzene

Concen: 44.025 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

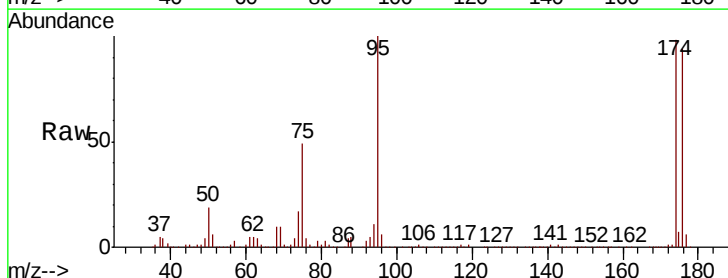
Tgt Ion: 95 Resp: 207441

Ion Ratio Lower Upper

95 100

174 92.4 0.0 184.4

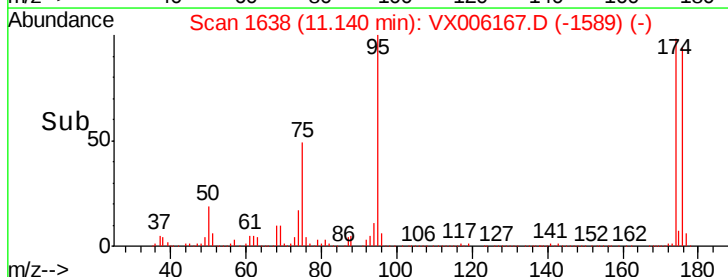
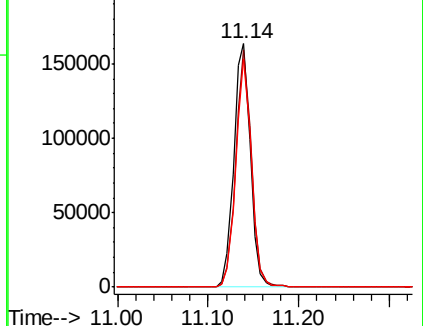
176 88.4 0.0 179.0

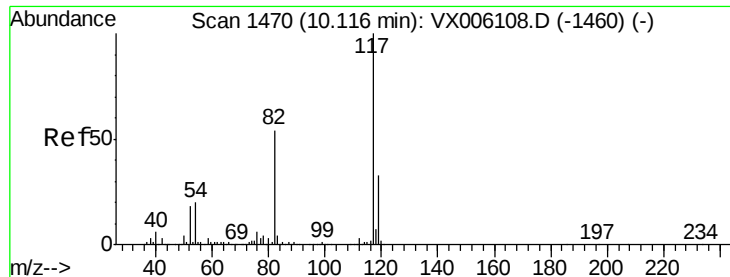


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

ClientSampled :

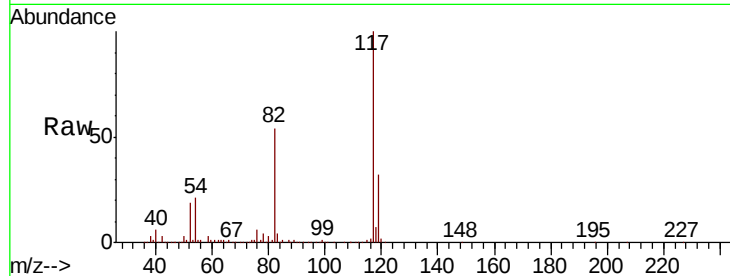
Tot Ion:117 Resp: 464986

Ion Ratio Lower Upper

117 100

82 53.9 43.0 64.4

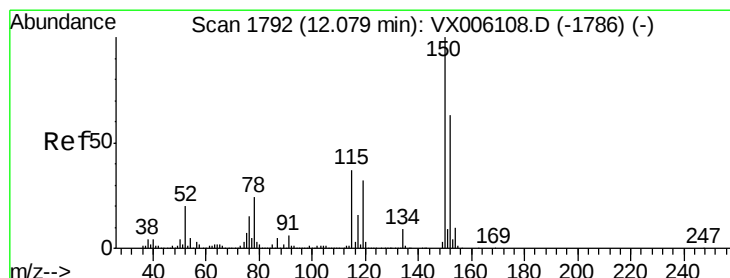
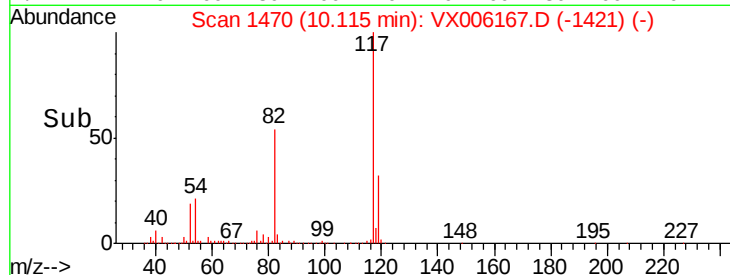
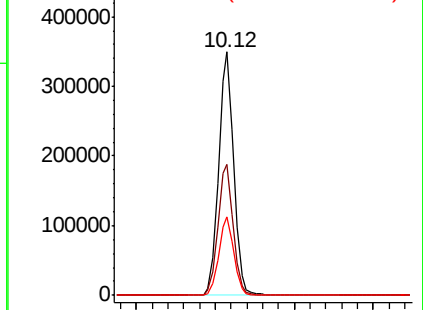
119 32.1 26.1 39.1



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

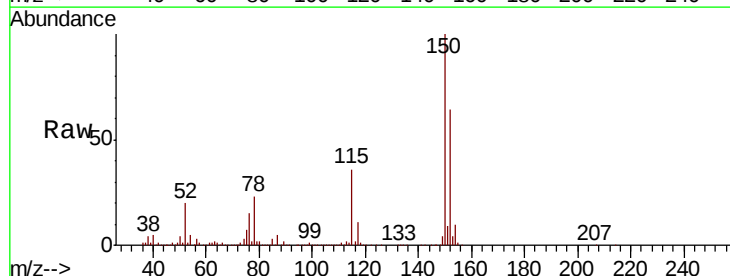
Tgt Ion:152 Resp: 223173

Ion Ratio Lower Upper

152 100

115 55.5 39.0 116.9

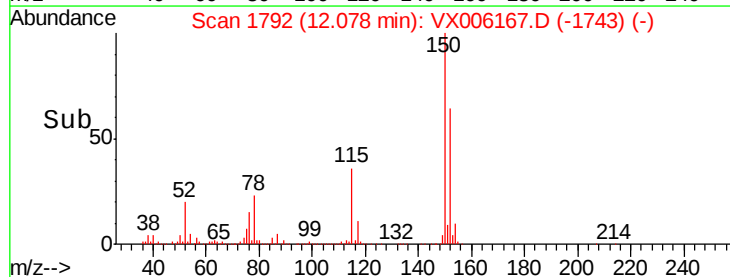
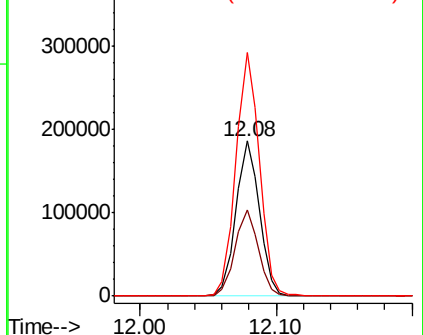
150 157.1 0.0 346.6

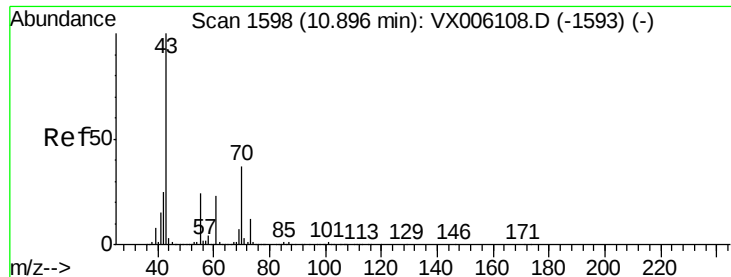


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.228 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX006167.D

Acq: 26 Nov 2018 11:38

Instrument :

MSVOA\_X

ClientSampled :

Tot Ion: 43 Resp: 257

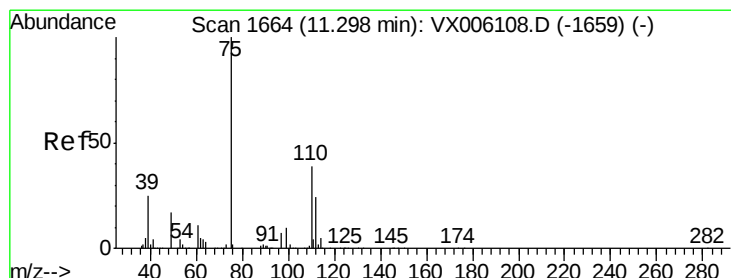
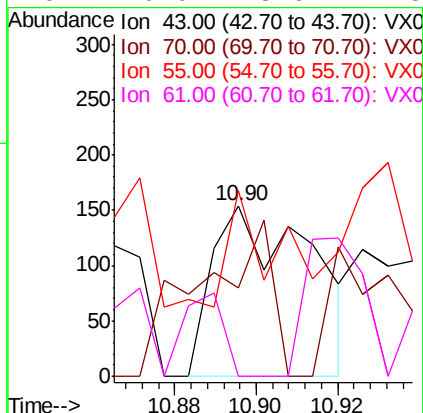
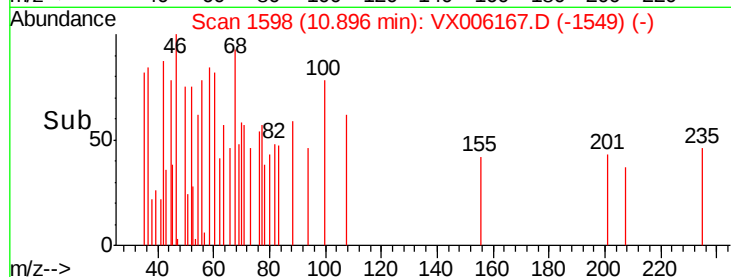
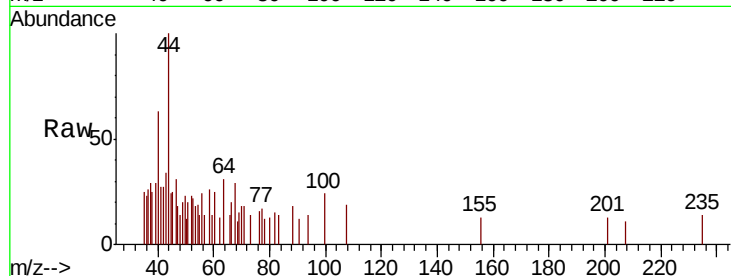
Ion Ratio Lower Upper

43 100

70 67.7 31.8 47.6#

55 56.8 19.5 29.3#

61 0.0 18.6 27.8#



#76

1,2,3-Trichloropropane

Concen: 22.700 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX006167.D

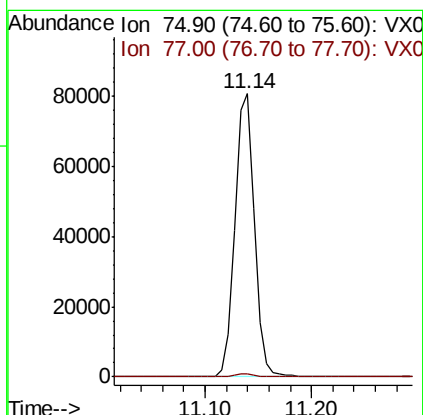
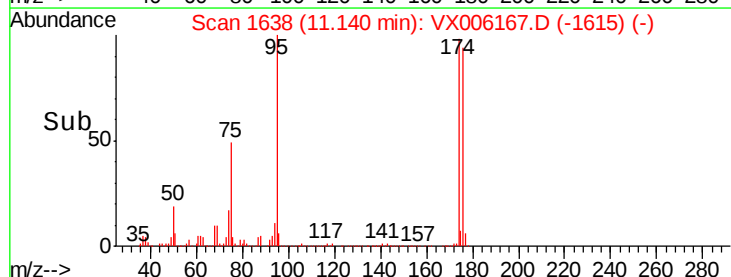
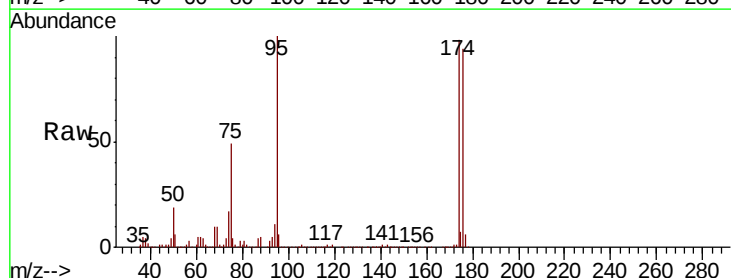
Acq: 26 Nov 2018 11:38

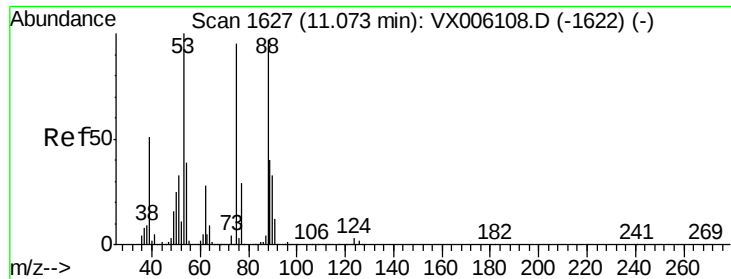
Tgt Ion: 75 Resp: 104297

Ion Ratio Lower Upper

75 100

77 1.4 19.6 58.7#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.775 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. 0.07 min  
 Lab File: VX006167.D  
 Acq: 26 Nov 2018 11:38

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.4   | 85.3  | 127.9# |
| 89      | 0.0   | 37.2  | 55.8#  |

