

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010919\  
 Data File : VX006972.D  
 Acq On : 09 Jan 2019 18:20  
 Operator : JC/MD  
 Sample : K1006-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 JC-03-010819-F

Quant Time: Jan 10 00:58:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 643511   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 986514   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 914750   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 444163   | 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   | 336773   | 50.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.16% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 302132   | 47.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.64%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1180437  | 51.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.10% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 416235   | 51.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.26% |          |

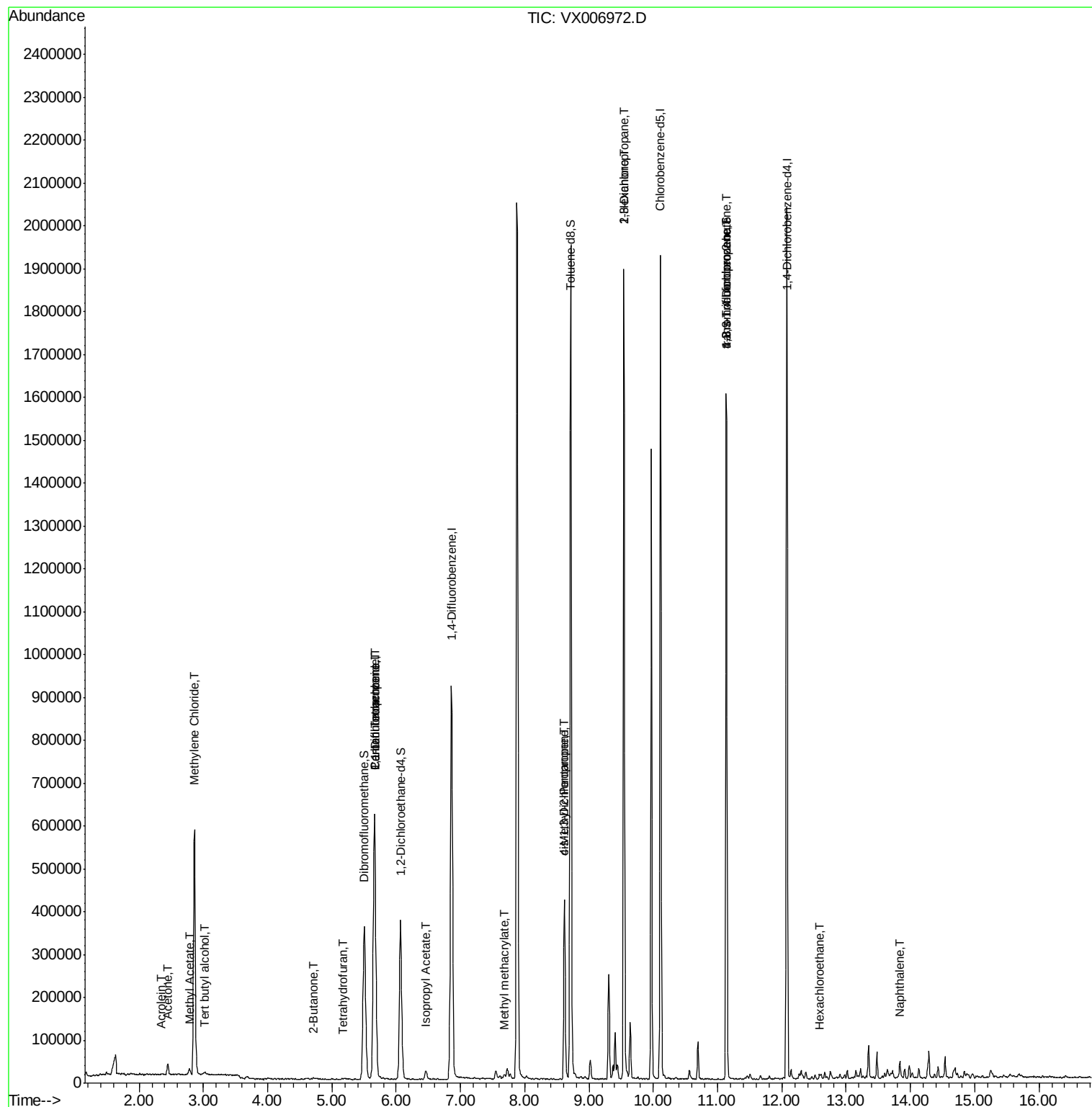
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.02  | 59   | 5413     | 3.412     | ug/l # | 86     |
| 13) Acrolein                   | 2.33  | 56   | 213      | 3.392     | ug/l # | 47     |
| 16) Acetone                    | 2.45  | 43   | 28215    | 8.486     | ug/l   | 100    |
| 18) Methyl Acetate             | 2.78  | 43   | 17657    | 1.834     | ug/l   | 97     |
| 20) Methylene Chloride         | 2.86  | 84   | 269614   | 42.551    | ug/l   | 97     |
| 25) 2-Butanone                 | 4.70  | 43   | 3281     | 0.690     | ug/l # | 86     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1449     | 0.469     | ug/l # | 56     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 40729    | 4.749     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 58447    | 6.773     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.46  | 43   | 27397    | 1.889     | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.68  | 41   | 13661    | 1.834     | ug/l # | 11     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 263      | Below Cal | #      | 27     |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 134518   | 14.431    | ug/l # | 49     |
| 54) cis-1,3-Dichloropropene    | 8.62  | 75   | 69280    | 7.188     | ug/l # | 61     |
| 57) 1,3-Dichloropropane        | 9.54  | 76   | 16453    | 1.492     | ug/l # | 44     |
| 59) 2-Hexanone                 | 9.54  | 43   | 207347   | 29.190    | ug/l # | 50     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 196977   | 21.884    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 196977   | 64.830    | ug/l # | 10     |
| 90) Hexachloroethane           | 12.58 | 117  | 542      | 3.023     | ug/l # | 6      |
| 95) Naphthalene                | 13.83 | 128  | 25101    | 0.784     | ug/l   | 97     |

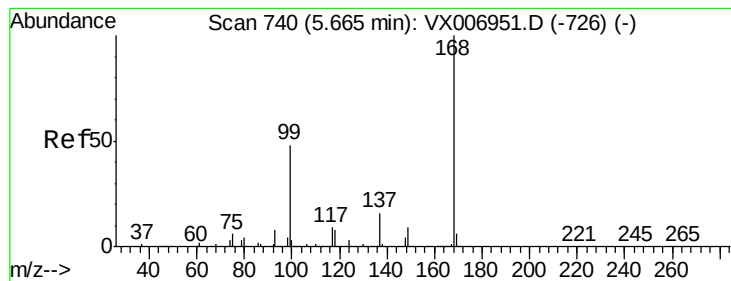
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

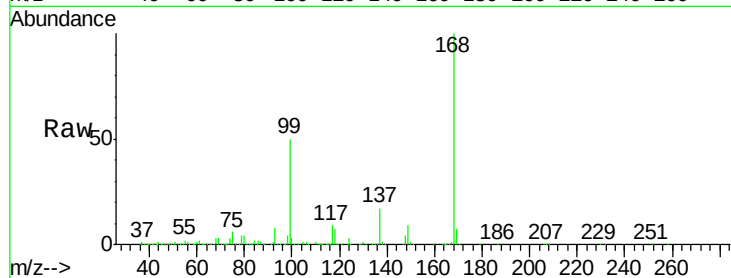
JC-03-010819-F

Tot Ion:168 Resp: 643511

Ion Ratio Lower Upper

168 100

99 50.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

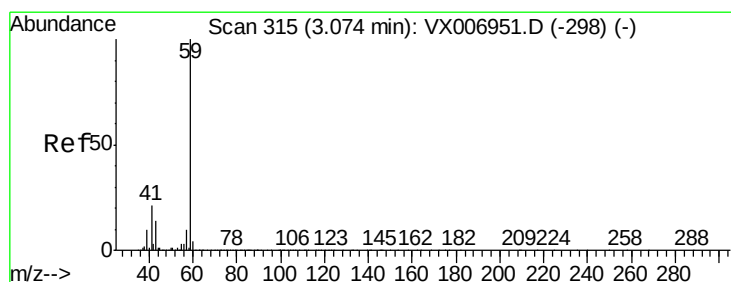
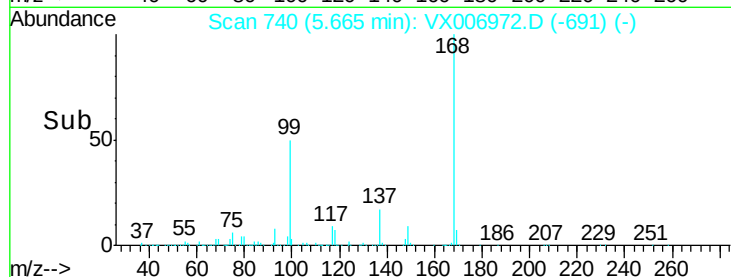
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 3.412 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006972.D

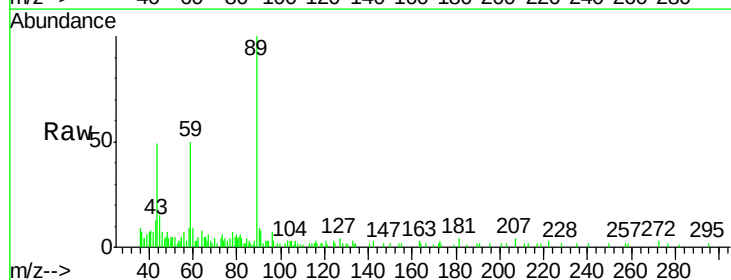
Acq: 09 Jan 2019 18:20

Tgt Ion: 59 Resp: 5413

Ion Ratio Lower Upper

59 100

57 5.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

2000

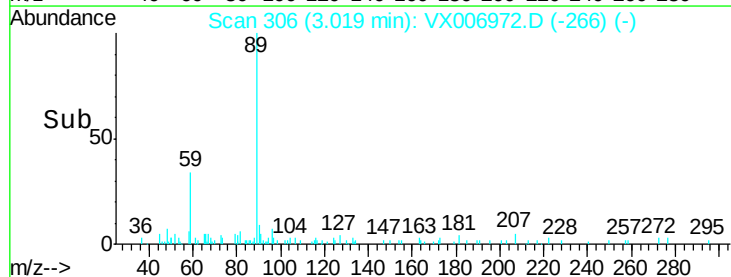
1500

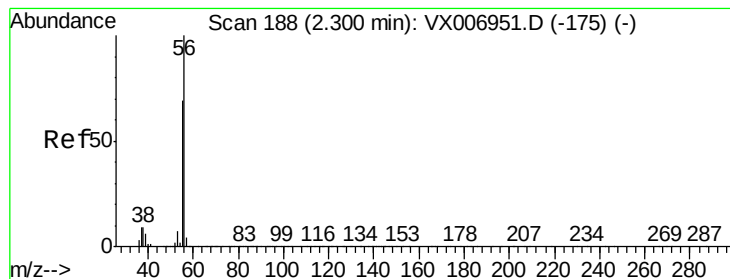
1000

500

0

Time--> 2.90 3.00 3.10





#13

Acrolein

Concen: 3.392 ug/l

RT: 2.33 min Scan# 193

Delta R.T. 0.03 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

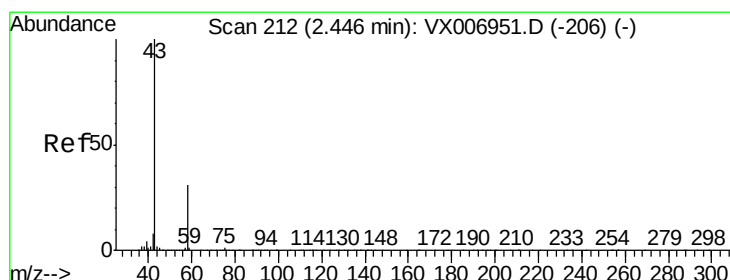
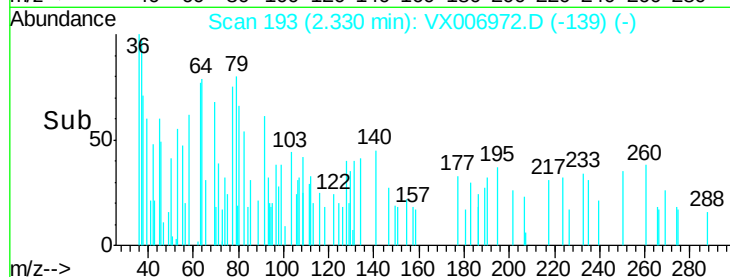
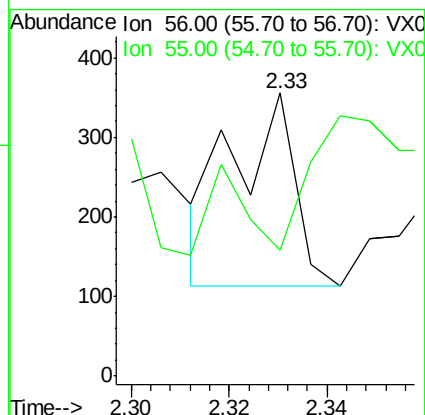
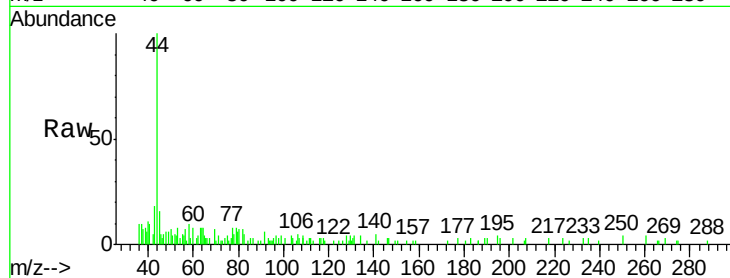
JC-03-010819-F

Tot Ion: 56 Resp: 213

Ion Ratio Lower Upper

56 100

55 28.6 58.2 87.4#



#16

Acetone

Concen: 8.486 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006972.D

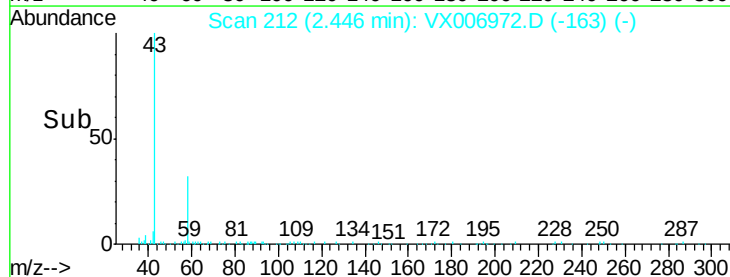
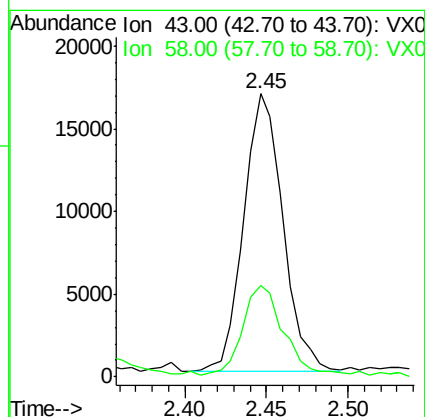
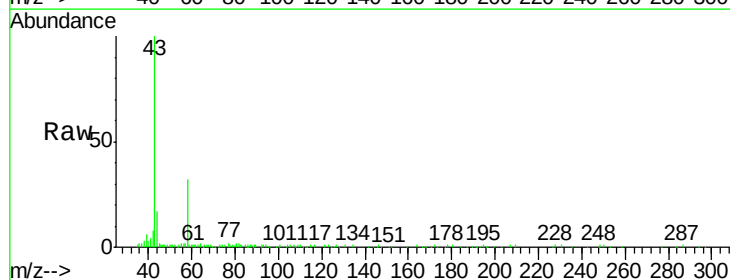
Acq: 09 Jan 2019 18:20

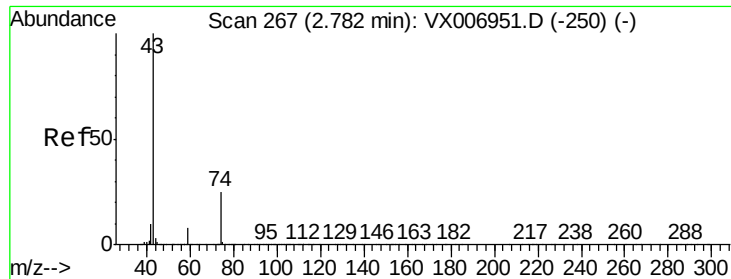
Tgt Ion: 43 Resp: 28215

Ion Ratio Lower Upper

43 100

58 31.3 25.0 37.6

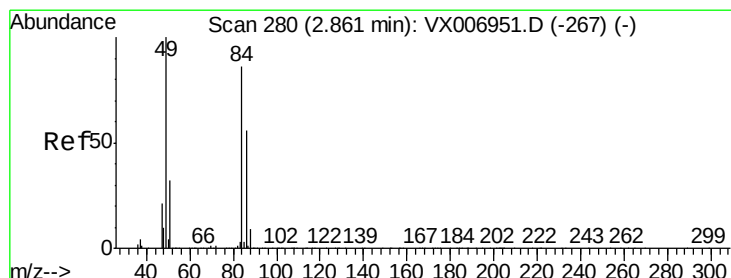
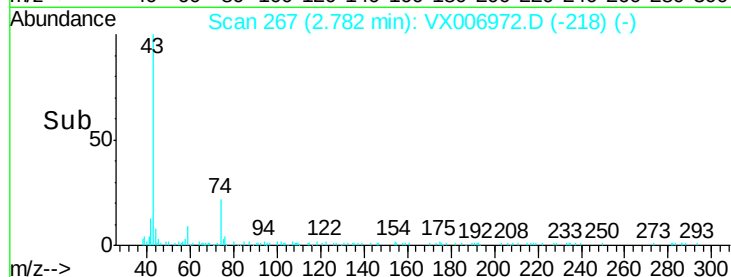
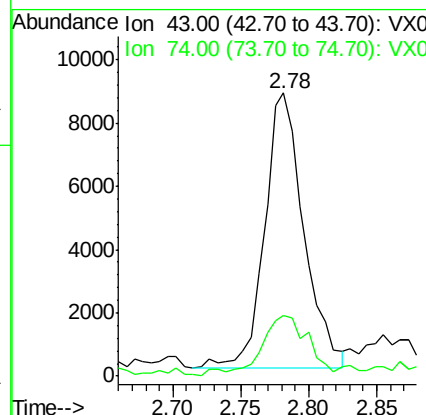
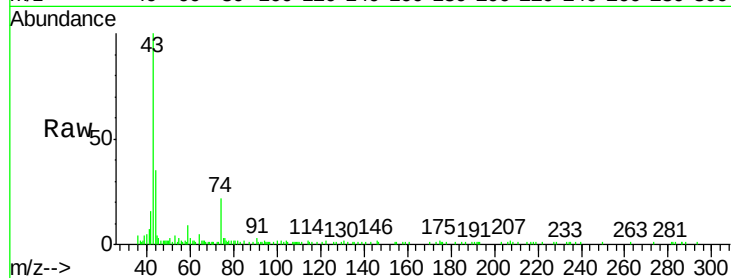




#18  
Methyl Acetate  
Concen: 1.834 ug/l  
RT: 2.78 min Scan# 267  
Delta R.T. -0.00 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

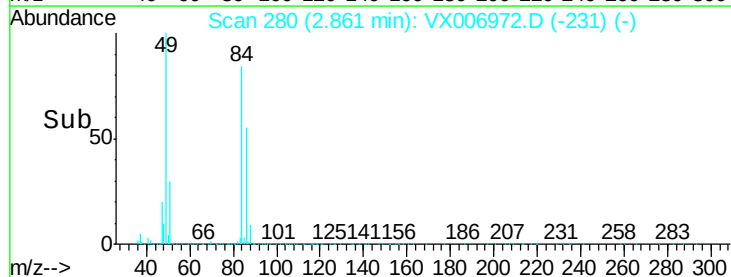
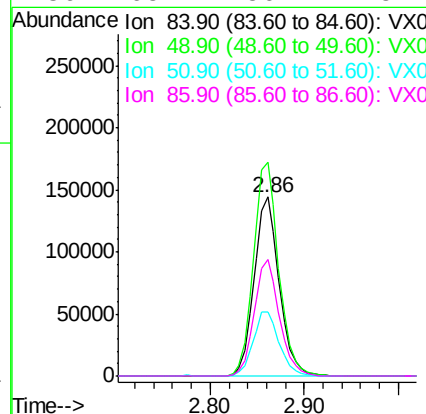
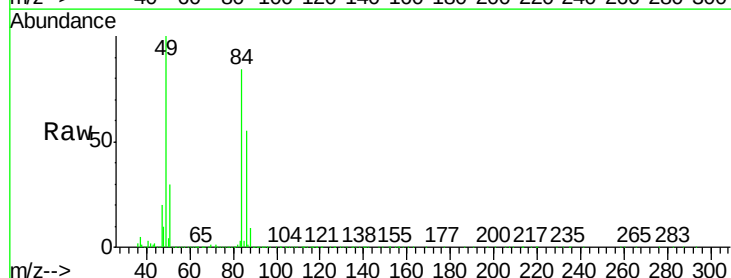
Instrument :  
MSVOA\_X  
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JC-03-010819-F

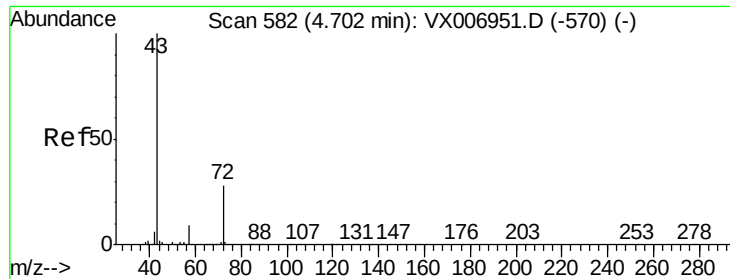
Tot Ion: 43 Resp: 17657  
Ion Ratio Lower Upper  
43 100  
74 21.9 18.6 28.0



#20  
Methylene Chloride  
Concen: 42.551 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

Tgt Ion: 84 Resp: 269614  
Ion Ratio Lower Upper  
84 100  
49 119.4 91.8 137.6  
51 35.7 28.5 42.7  
86 65.4 50.2 75.2





#25

2-Butanone

Concen: 0.690 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

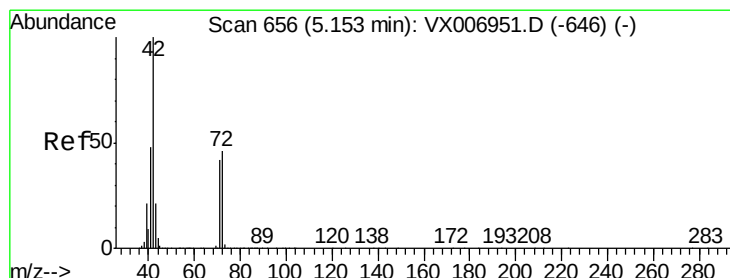
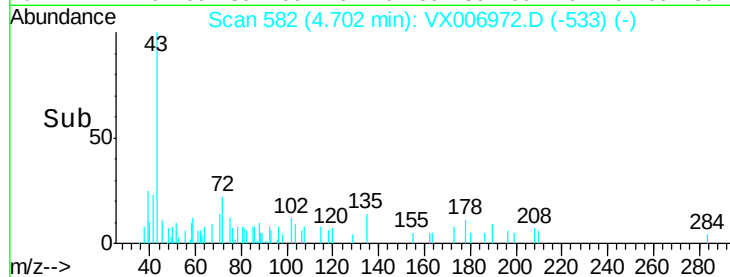
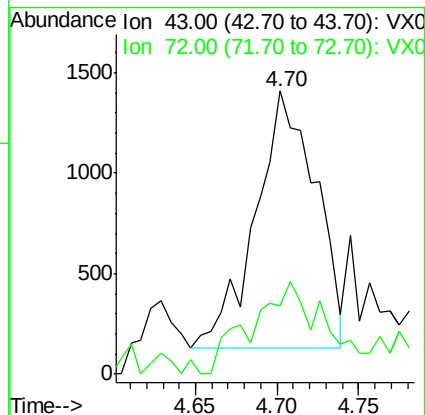
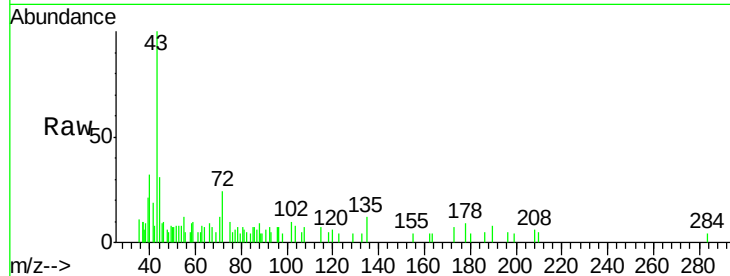
JC-03-010819-F

Tot Ion: 43 Resp: 3281

Ion Ratio Lower Upper

43 100

72 20.6 22.4 33.6#



#29

Tetrahydrofuran

Concen: 0.469 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

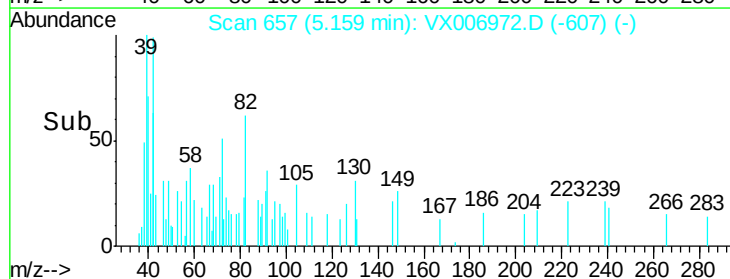
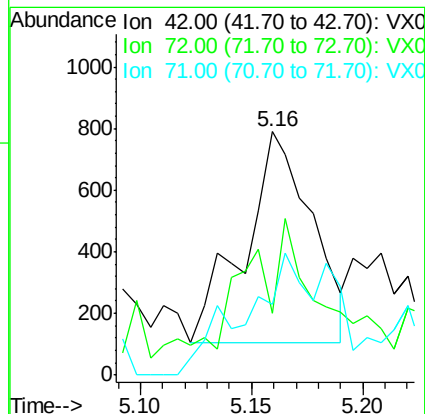
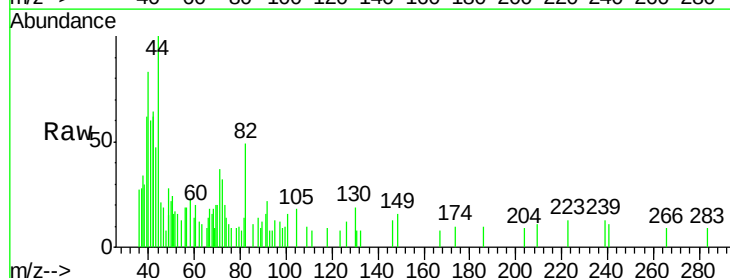
Tgt Ion: 42 Resp: 1449

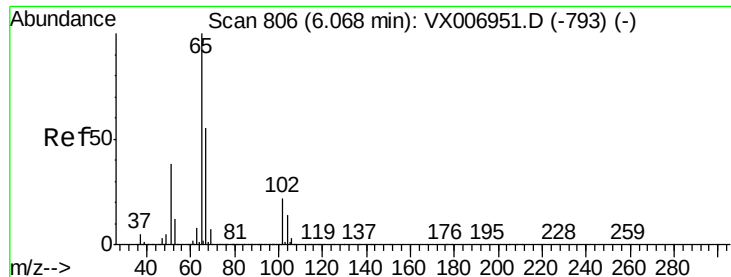
Ion Ratio Lower Upper

42 100

72 22.3 38.9 58.3#

71 77.9 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 50.076 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

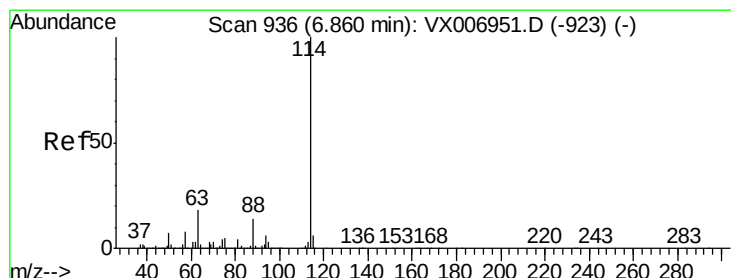
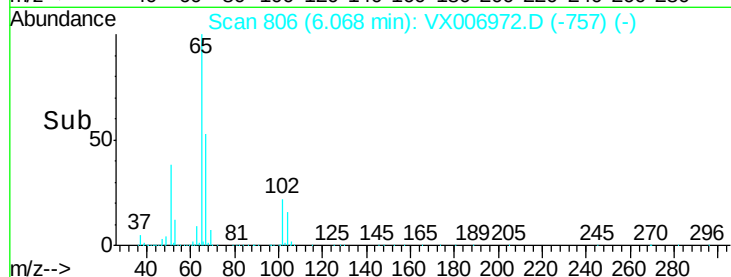
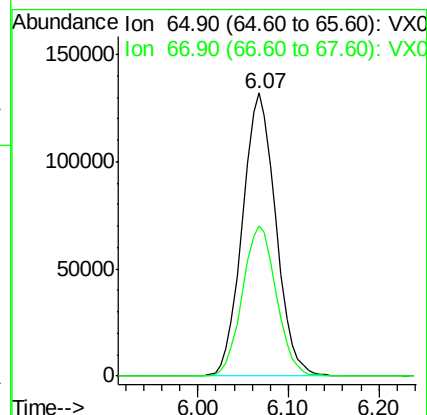
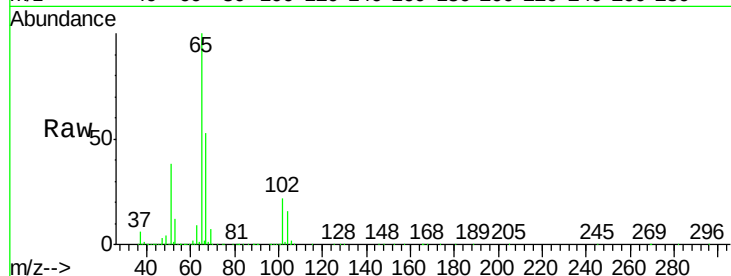
JC-03-010819-F

Tot Ion: 65 Resp: 336773

Ion Ratio Lower Upper

65 100

67 54.1 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

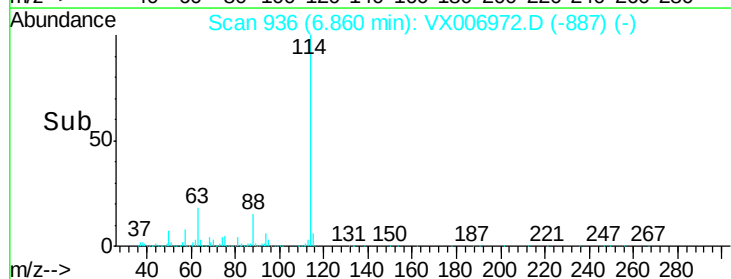
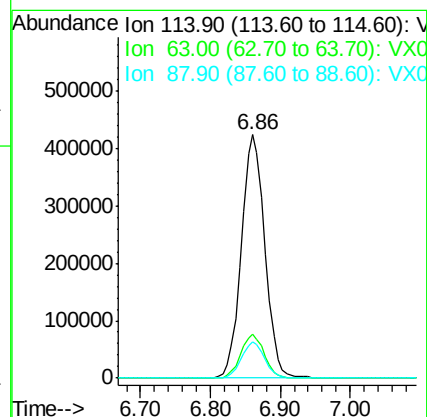
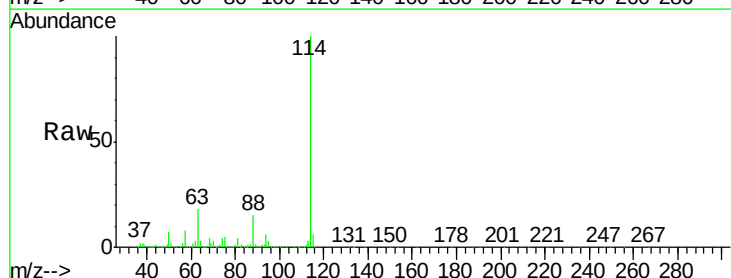
Tgt Ion: 114 Resp: 986514

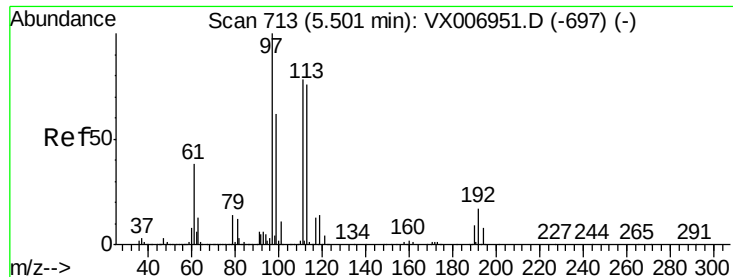
Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.8

88 15.0 0.0 28.8

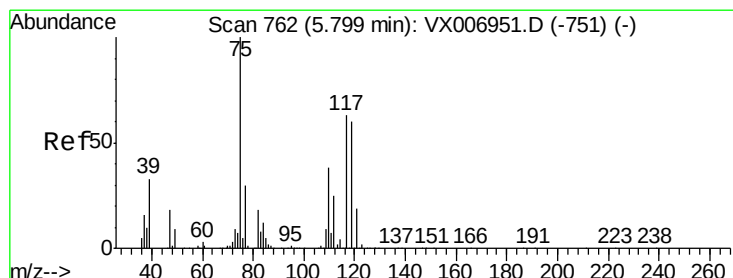
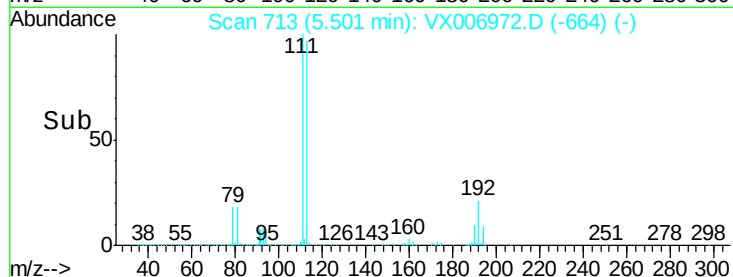
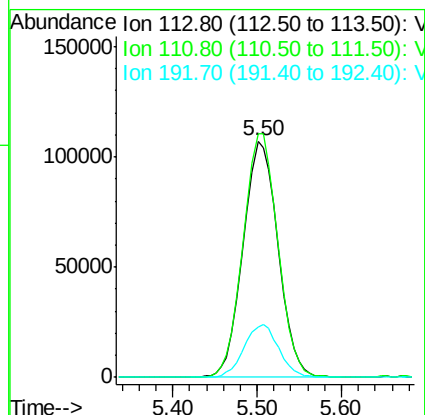
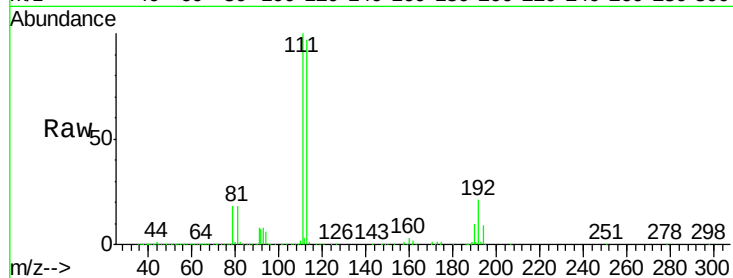




#35  
 Dibromofluoromethane  
 Concen: 47.824 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX006972.D  
 Acq: 09 Jan 2019 18:20

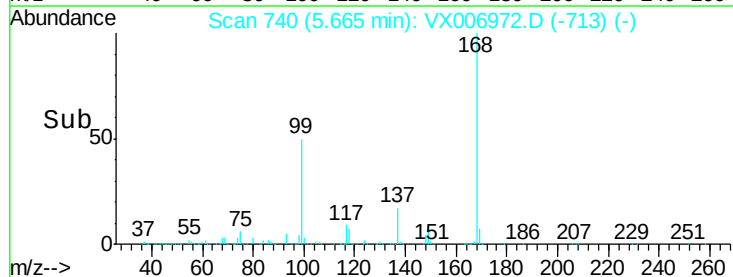
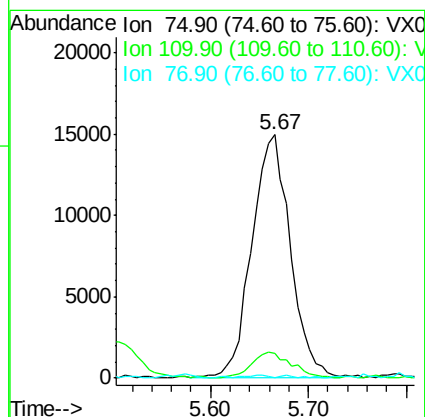
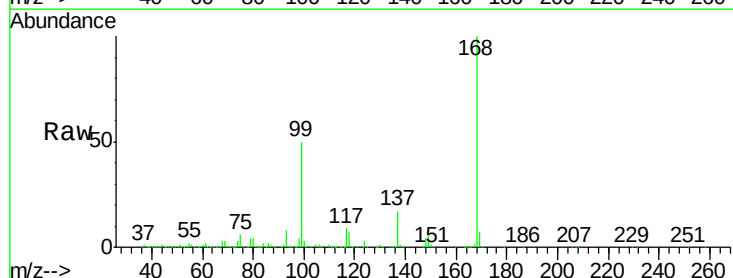
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 JC-03-010819-F

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 81.6  | 122.4 |
| 192     | 22.1  | 16.7  | 25.1  |

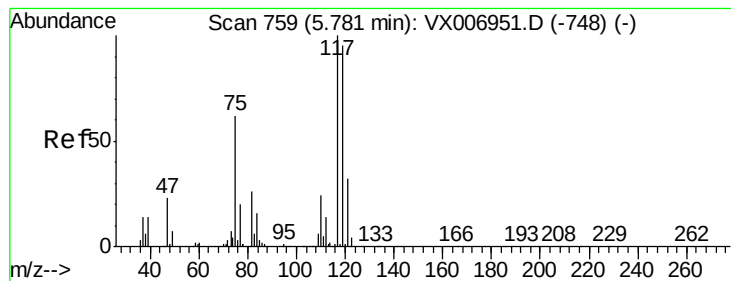


#36  
 1,1-Dichloropropene  
 Concen: 4.749 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX006972.D  
 Acq: 09 Jan 2019 18:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.1  | 20.2  | 60.5# |
| 77      | 0.7   | 24.8  | 37.2# |







#38

Carbon Tetrachloride

Concen: 6.773 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

JC-03-010819-F

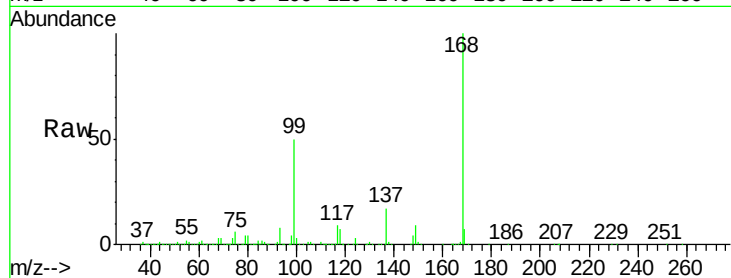
Tot Ion:117 Resp: 58447

Ion Ratio Lower Upper

117 100

119 6.4 79.4 119.2#

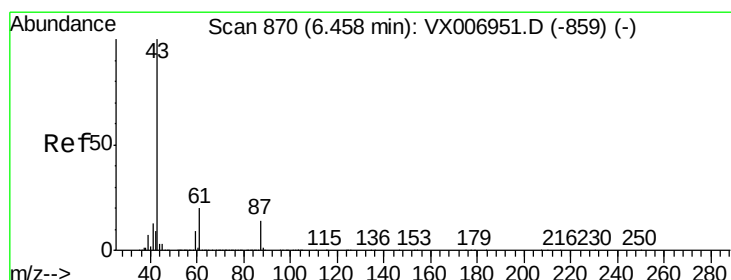
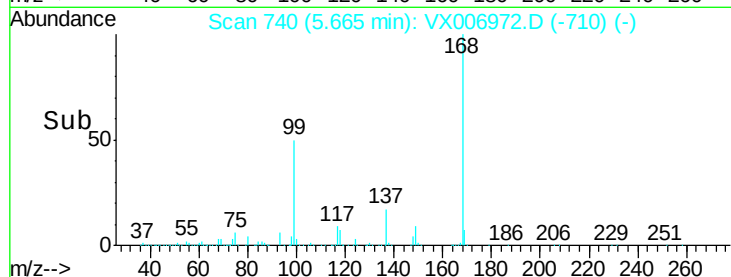
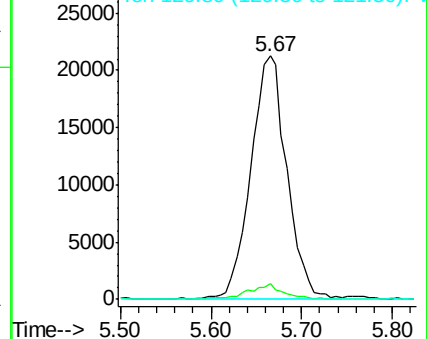
121 0.3 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 1.889 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

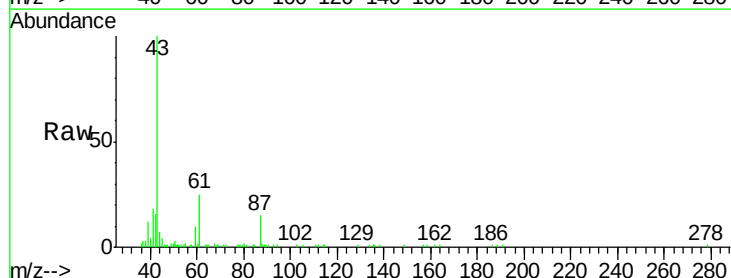
Tgt Ion: 43 Resp: 27397

Ion Ratio Lower Upper

43 100

61 21.6 16.8 25.2

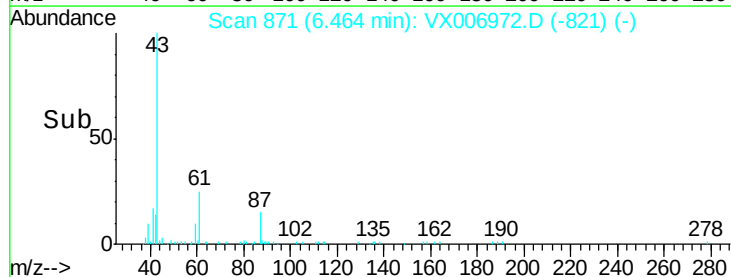
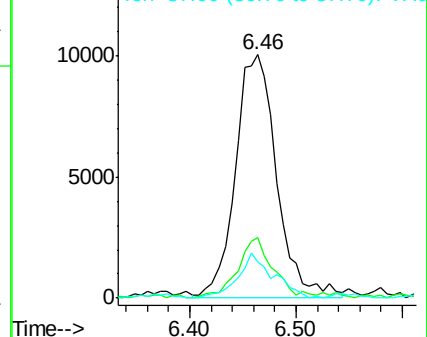
87 15.8 12.4 18.6

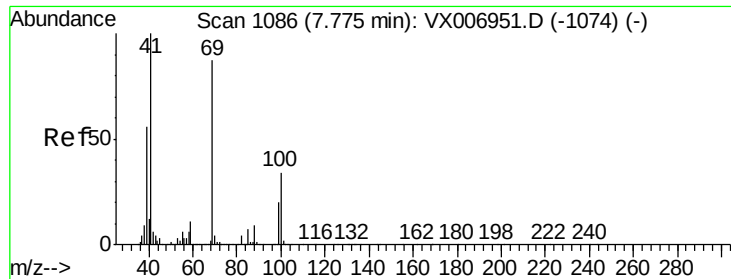


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

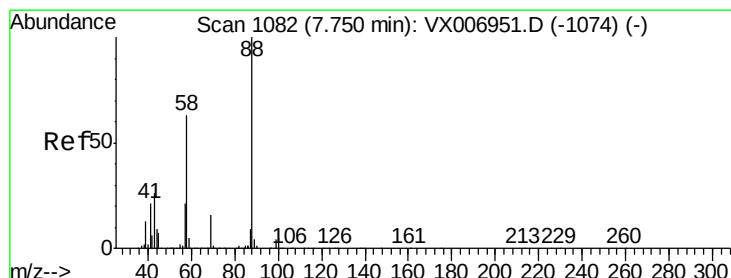
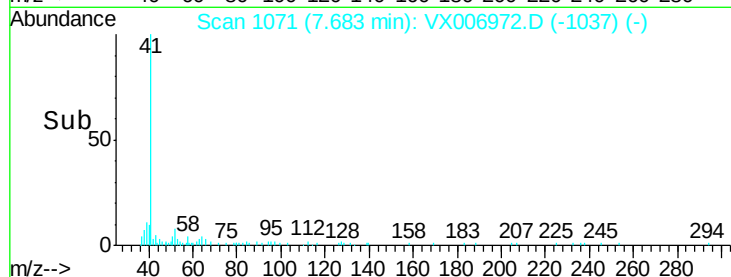
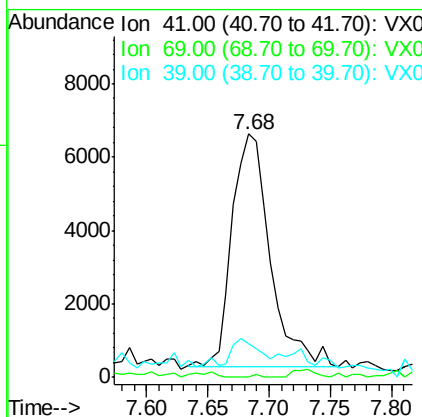
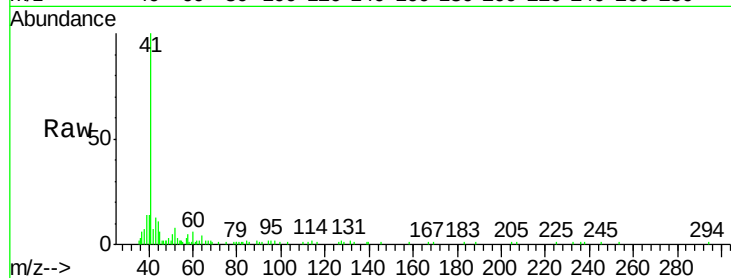




#48  
Methvl methacrylate  
Concen: 1.834 ug/l  
RT: 7.68 min Scan# 1071  
Delta R.T. -0.09 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

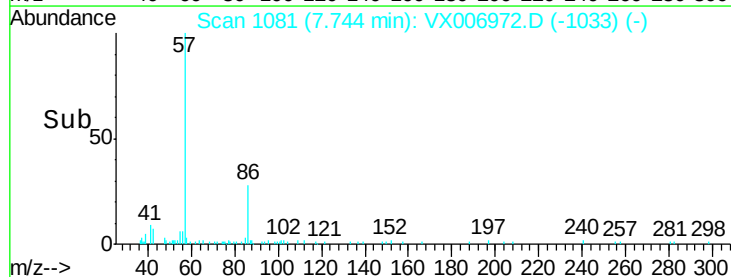
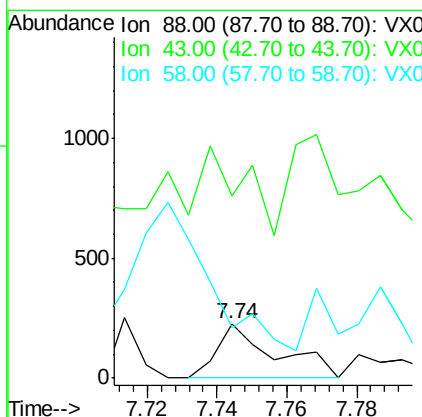
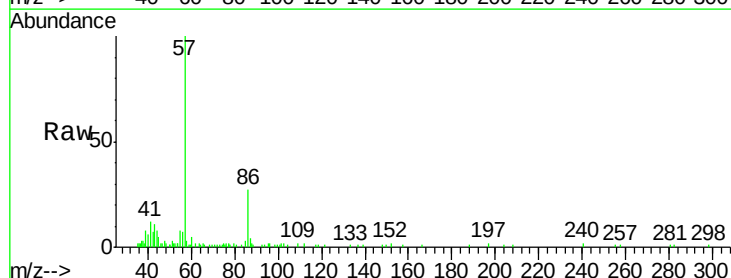
Instrument :  
MSVOA\_X  
ClientSampleId :  
JC-03-010819-F

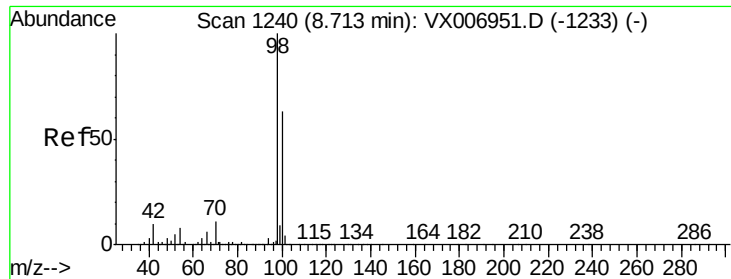
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 41      | 100   |       |        |
| 69      | 0.2   | 72.4  | 108.6# |
| 39      | 0.0   | 45.8  | 68.8#  |



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.74 min Scan# 1081  
Delta R.T. -0.01 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 0.0   | 22.2  | 33.4# |
| 58      | 0.0   | 51.0  | 76.4# |





#50

Toluene-d8

Concen: 51.047 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

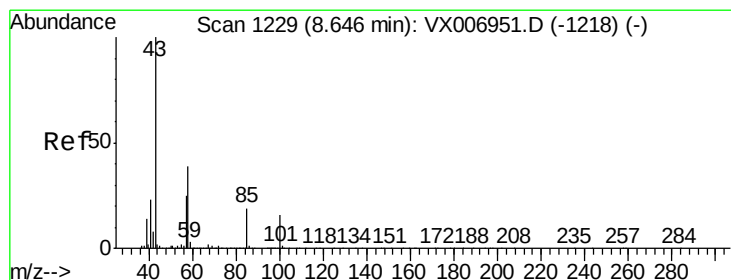
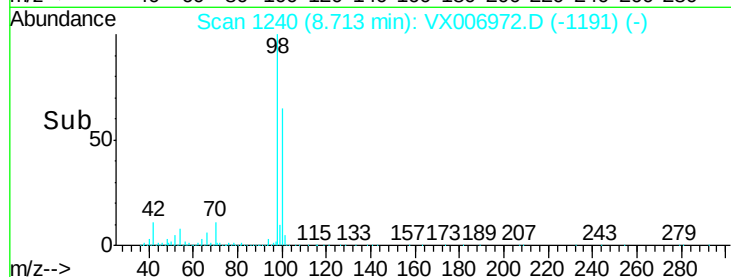
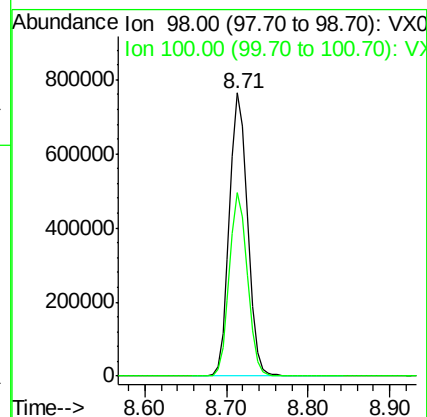
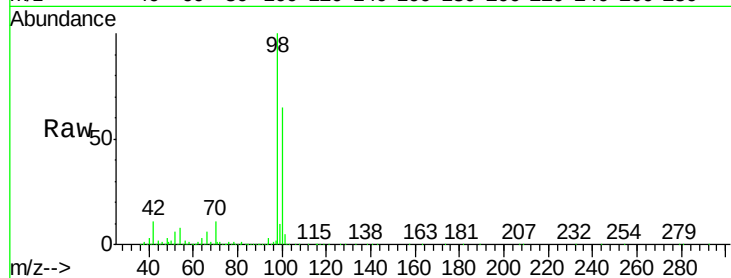
JC-03-010819-F

Tot Ion: 98 Resp: 1180437

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 14.431 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006972.D

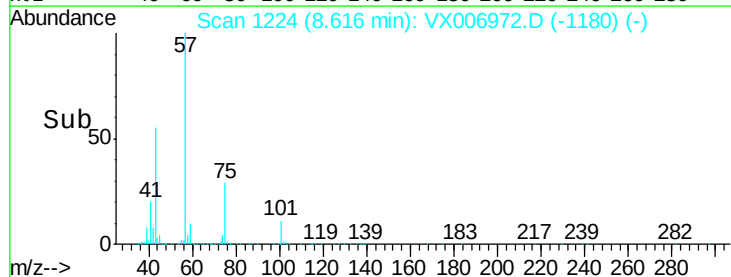
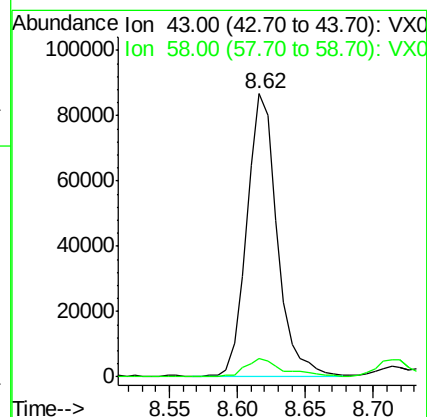
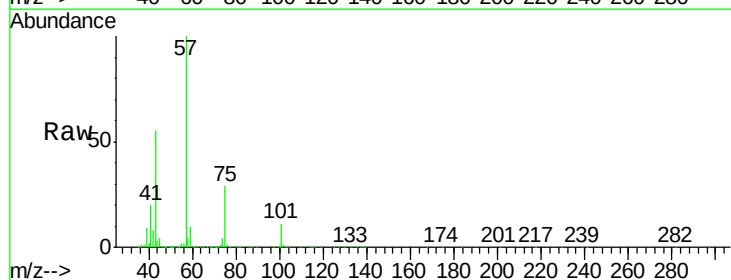
Acq: 09 Jan 2019 18:20

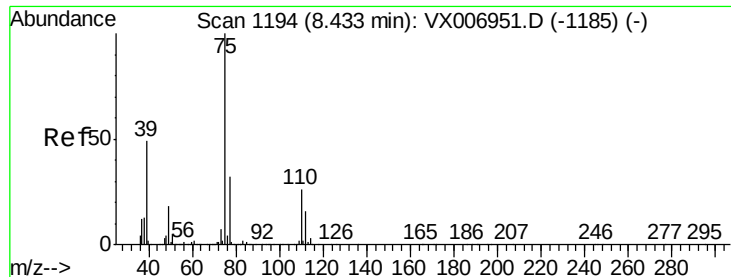
Tgt Ion: 43 Resp: 134518

Ion Ratio Lower Upper

43 100

58 8.1 31.8 47.6#



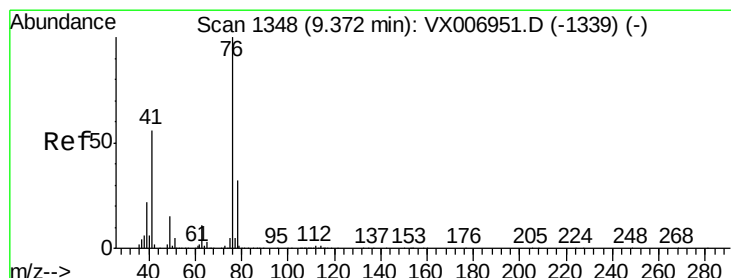
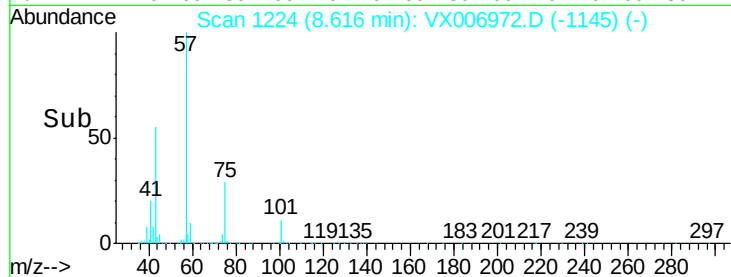
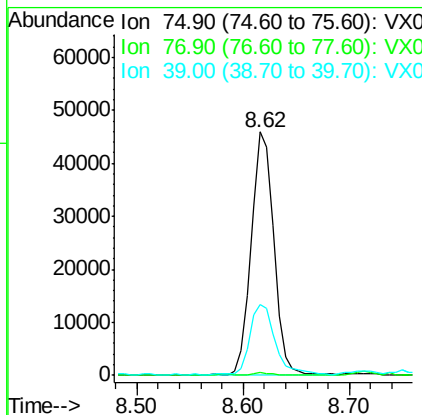
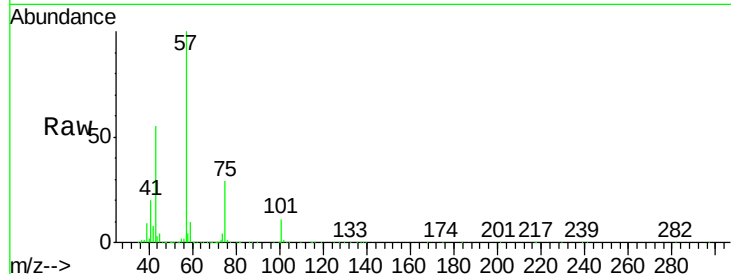


#54

cis-1,3-Dichloropropene  
 Concen: 7.188 ug/l  
 RT: 8.62 min Scan# 1224  
 Delta R.T. 0.18 min  
 Lab File: VX006972.D  
 Acq: 09 Jan 2019 18:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 JC-03-010819-F

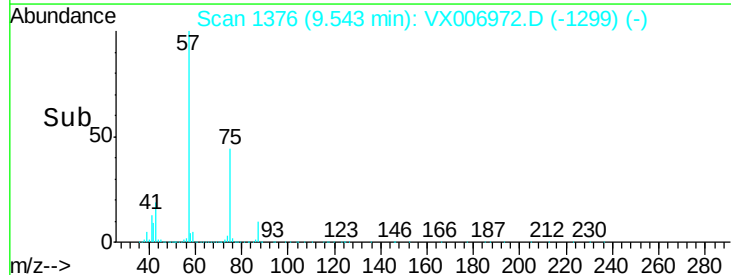
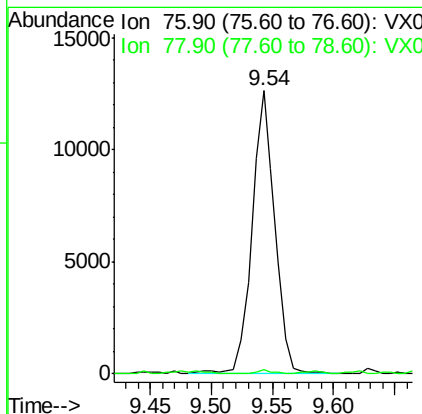
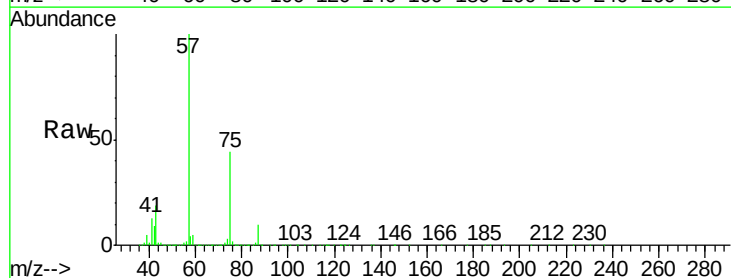
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.9   | 26.2  | 39.2# |
| 39      | 28.6  | 36.7  | 55.1# |

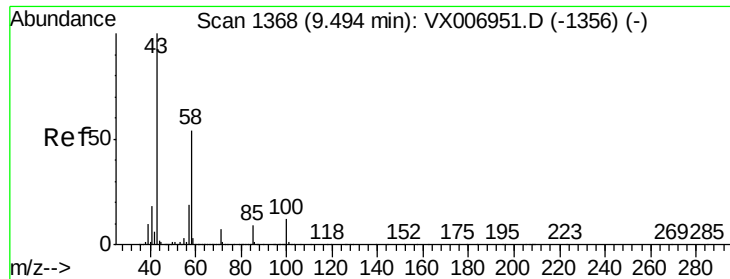


#57

1,3-Dichloropropane  
 Concen: 1.492 ug/l  
 RT: 9.54 min Scan# 1376  
 Delta R.T. 0.17 min  
 Lab File: VX006972.D  
 Acq: 09 Jan 2019 18:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 0.9   | 26.0  | 39.0# |

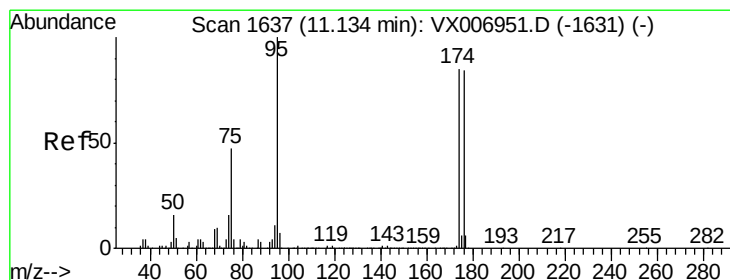
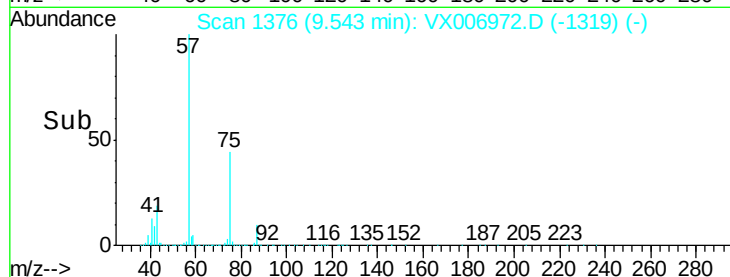
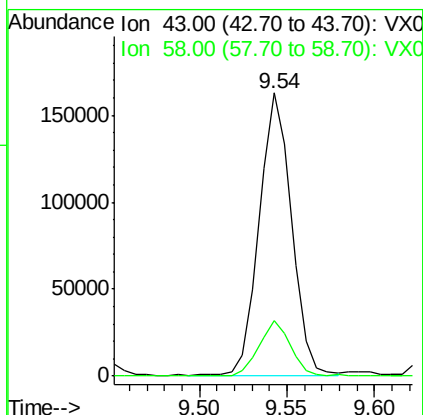
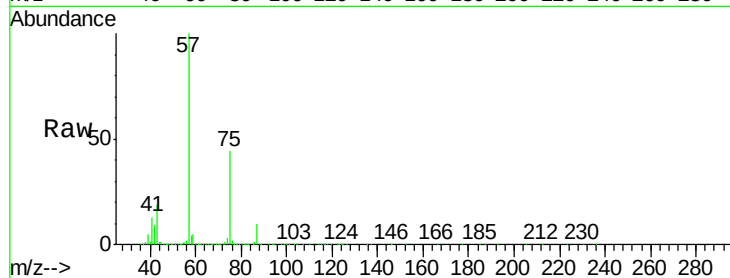




#59  
2-Hexanone  
Concen: 29.190 ug/l  
RT: 9.54 min Scan# 1376  
Delta R.T. 0.05 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

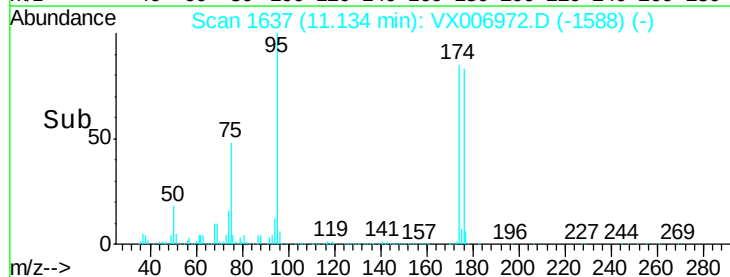
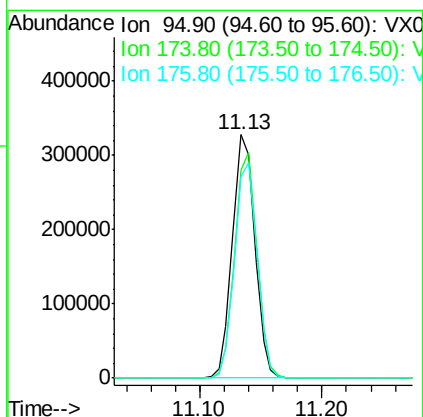
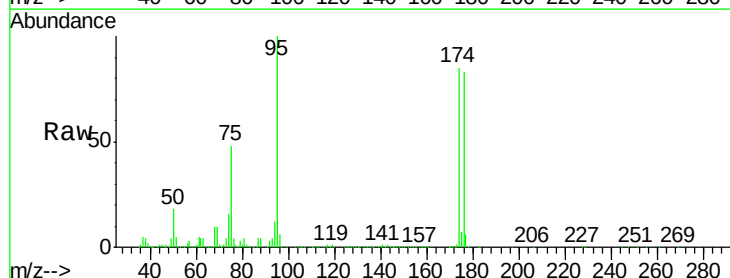
Instrument :  
MSVOA\_X  
ClientSampleId :  
JC-03-010819-F

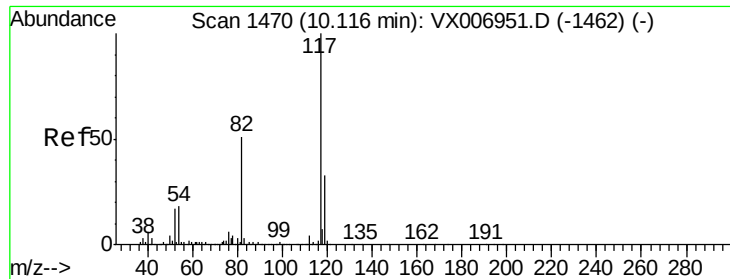
Tot Ion: 43 Resp: 207347  
Ion Ratio Lower Upper  
43 100  
58 19.3 27.7 83.1#



#62  
4-Bromofluorobenzene  
Concen: 51.631 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

Tgt Ion: 95 Resp: 416235  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 182.2  
176 88.8 0.0 178.8

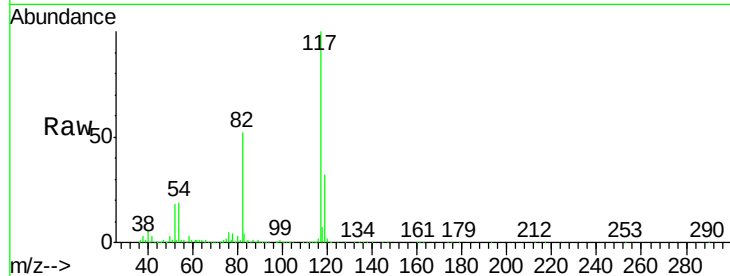




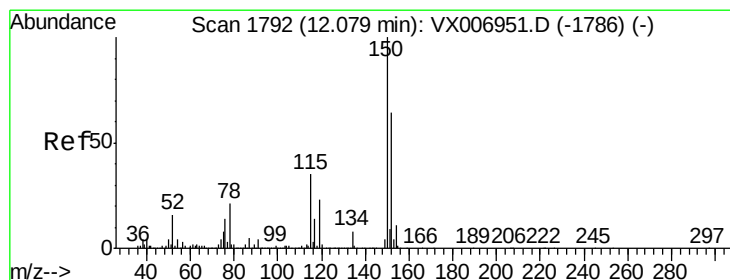
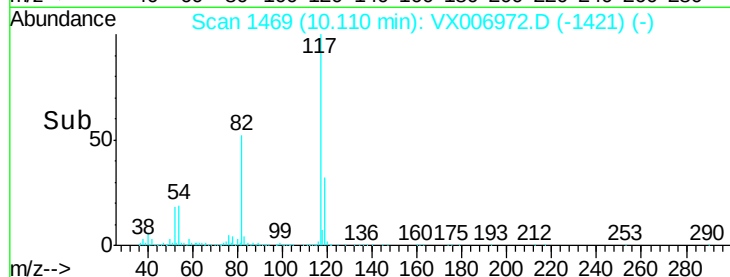
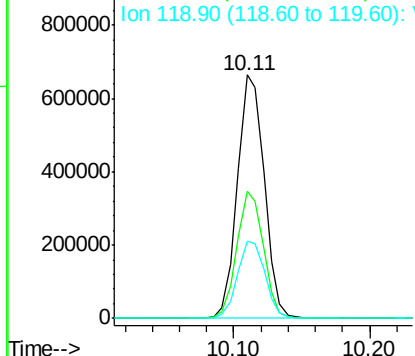
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.01 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
JC-03-010819-F

Tot Ion:117 Resp: 914750  
Ion Ratio Lower Upper  
117 100  
82 52.4 41.0 61.6  
119 32.0 25.4 38.0

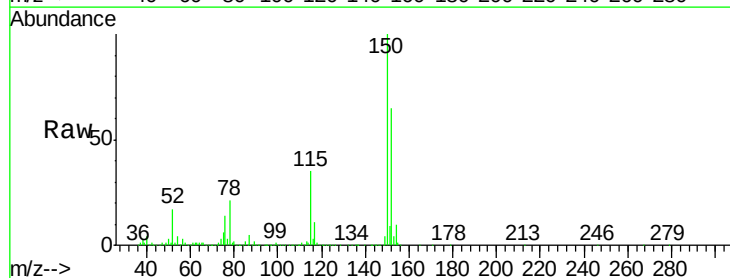


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

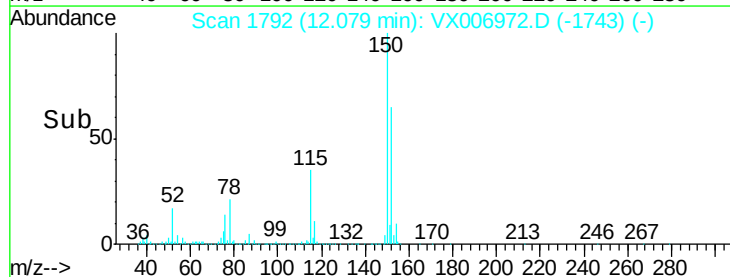
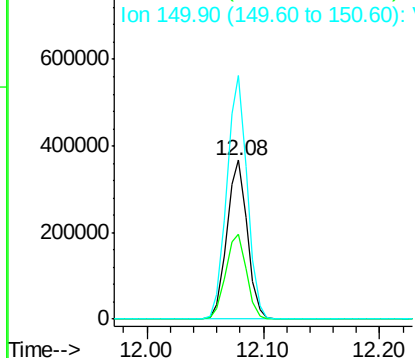


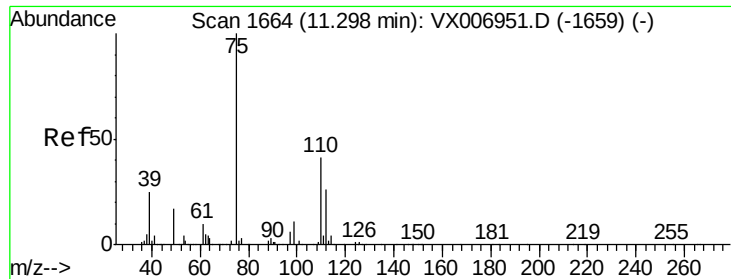
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX006972.D  
Acq: 09 Jan 2019 18:20

Tgt Ion:152 Resp: 444163  
Ion Ratio Lower Upper  
152 100  
115 54.7 39.1 117.2  
150 153.4 0.0 344.8



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

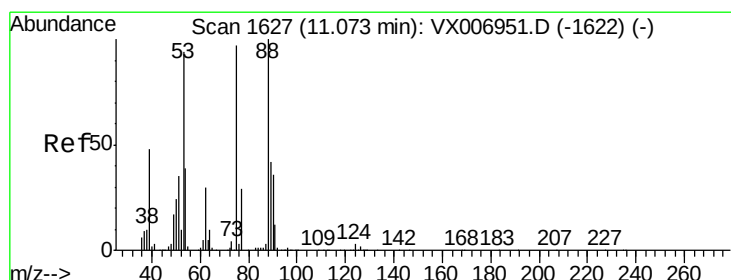
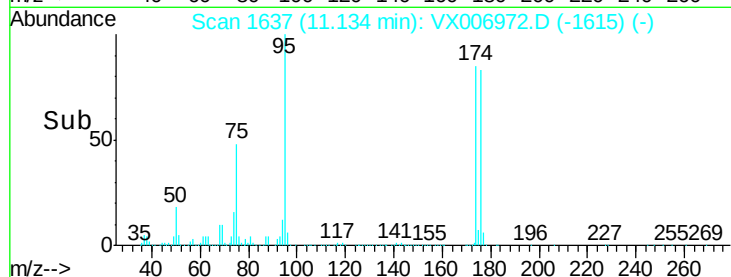
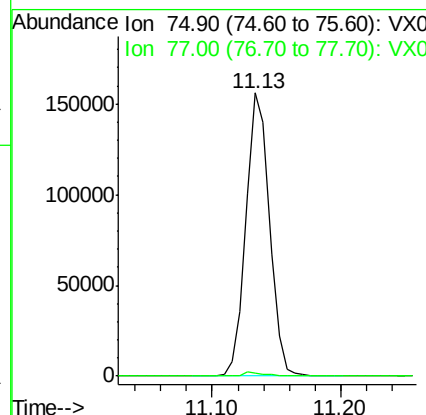
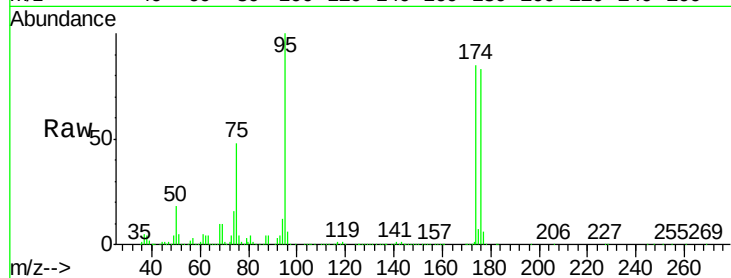




#76  
 1,2,3-Trichloropropane  
 Concen: 21.884 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX006972.D  
 Acq: 09 Jan 2019 18:20

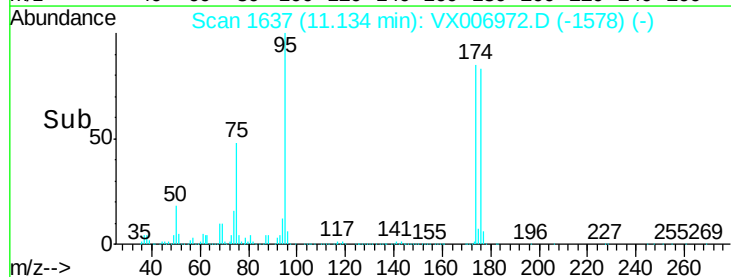
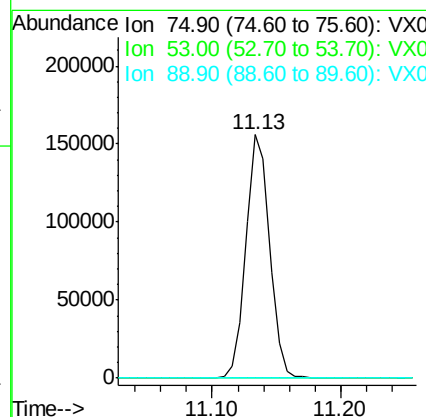
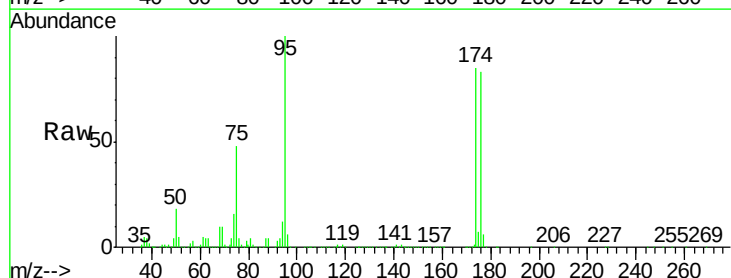
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 JC-03-010819-F

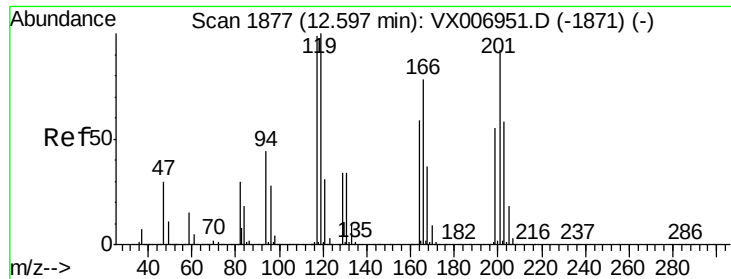
Tot Ion: 75 Resp: 196977  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 18.5 55.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.830 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX006972.D  
 Acq: 09 Jan 2019 18:20

Tgt Ion: 75 Resp: 196977  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 79.7 119.5#  
 89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.023 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

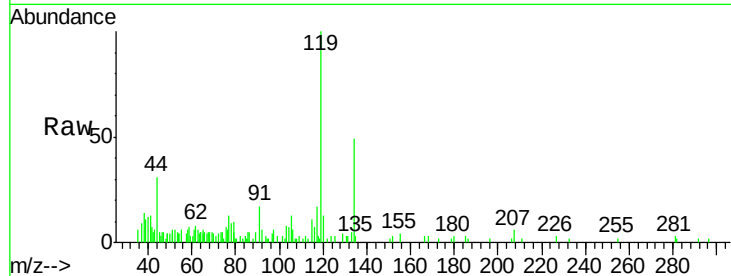
JC-03-010819-F

Tot Ion:117 Resp: 542

Ion Ratio Lower Upper

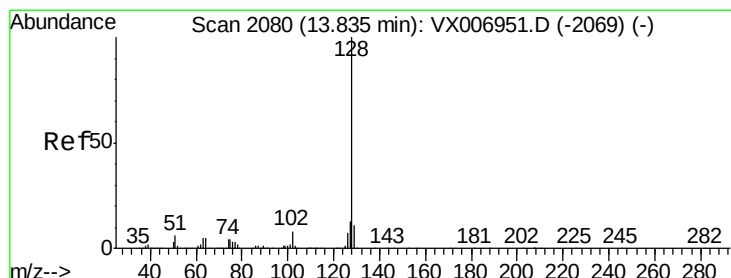
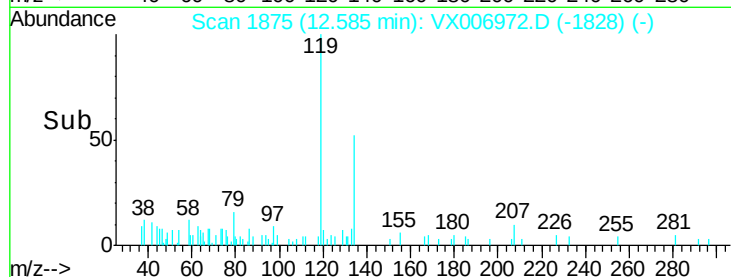
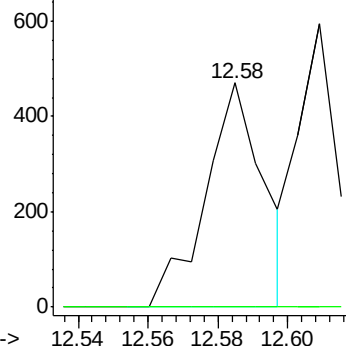
117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.784 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

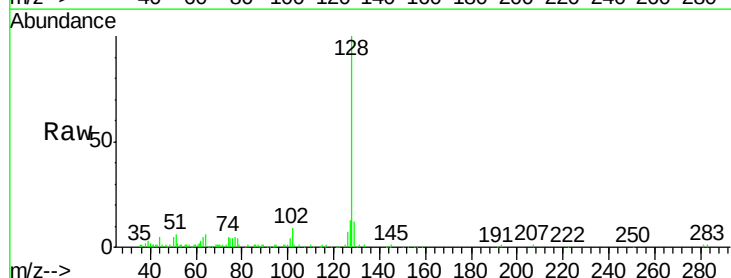
Tgt Ion:128 Resp: 25101

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

129 12.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

