

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020719\  
 Data File : VX007416.D  
 Acq On : 07 Feb 2019 11:10  
 Operator : JC/SP  
 Sample : VX0207MBL01  
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 08 22:05:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 514675   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 803294   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 764542   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 364108   | 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   | 279996   | 51.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.50% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 252050   | 48.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.44%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 956188   | 49.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.62%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 339470   | 47.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.90%  |          |

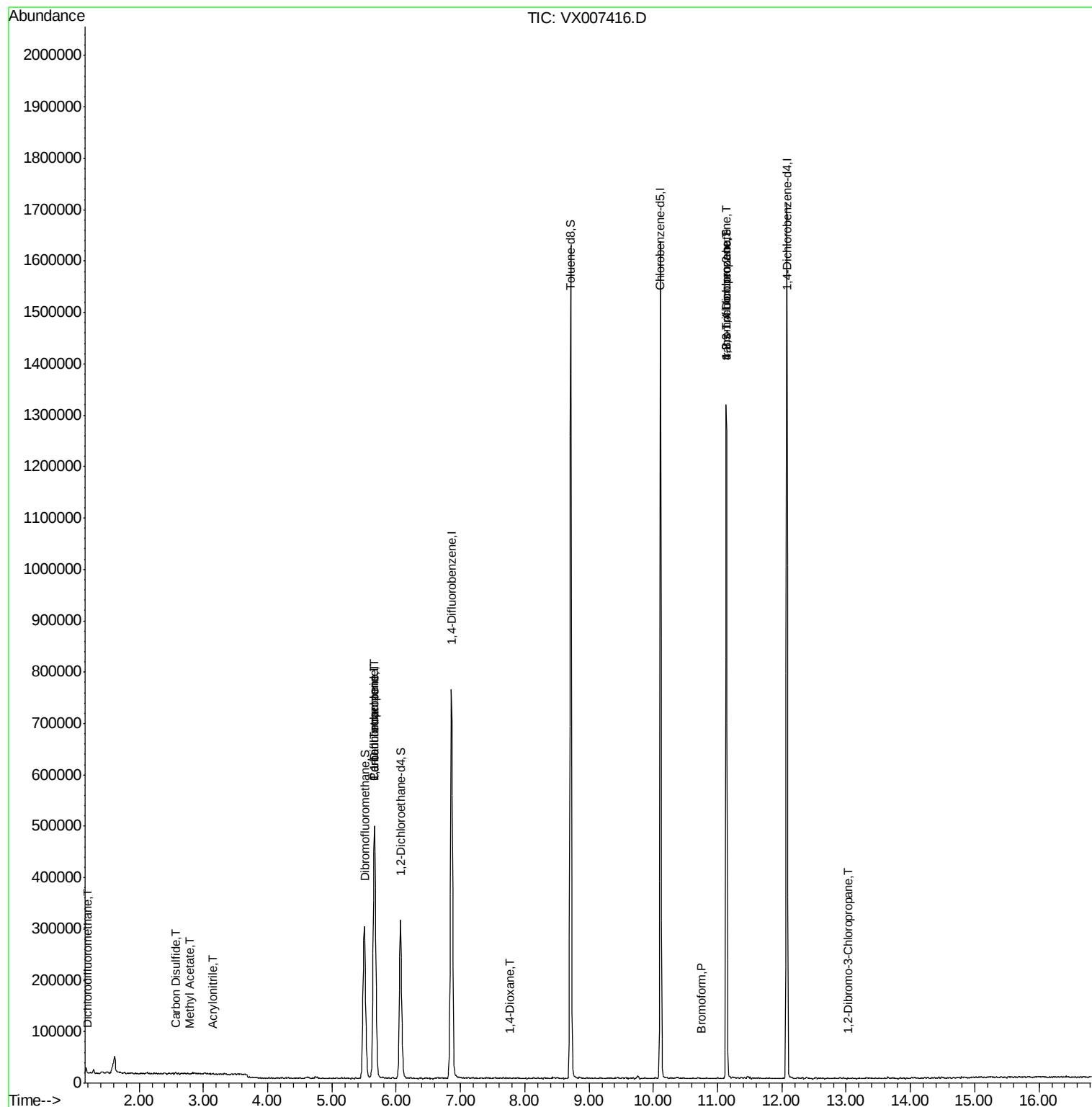
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 183      | 0.206     | ug/l # | 1      |
| 5) Bromomethane                | 1.65  | 94   | 668      | Below Cal | #      | 66     |
| 15) Acrylonitrile              | 3.15  | 53   | 1041     | 0.372     | ug/l # | 46     |
| 17) Carbon Disulfide           | 2.57  | 76   | 2149     | 2.281     | ug/l # | 37     |
| 18) Methyl Acetate             | 2.79  | 43   | 1596     | 0.835     | ug/l   | 99     |
| 20) Methylene Chloride         | 2.85  | 84   | 1218     | Below Cal | #      | 77     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 33314    | 4.622     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 46466    | 6.645     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 196      | 8.400     | ug/l # | 1      |
| 71) Bromoform                  | 10.75 | 173  | 141      | 4.056     | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 165955   | 23.432    | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 165955   | 70.530    | ug/l # | 9      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.04 | 75   | 407      | 0.260     | ug/l # | 1      |

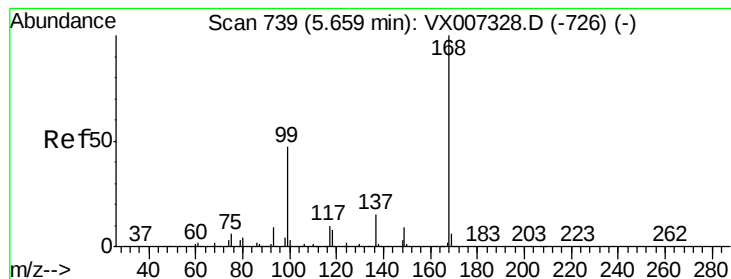
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020719\  
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Acq On : 07 Feb 2019 11:10  
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Sample : VX0207MBL01  
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Feb 08 22:05:26 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

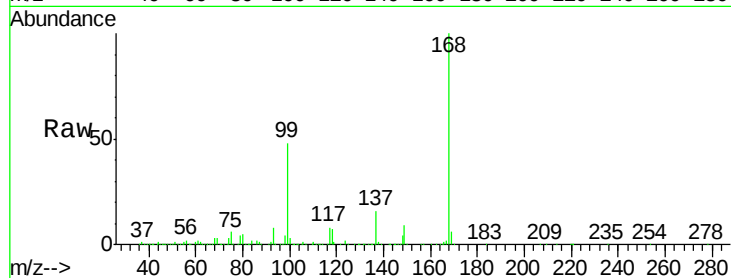
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:168 Resp: 514675

Ion Ratio Lower Upper

168 100

99 47.6 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

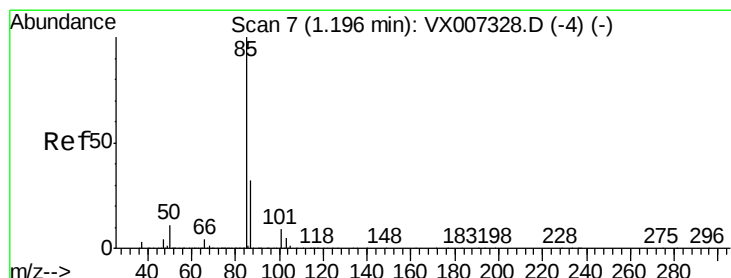
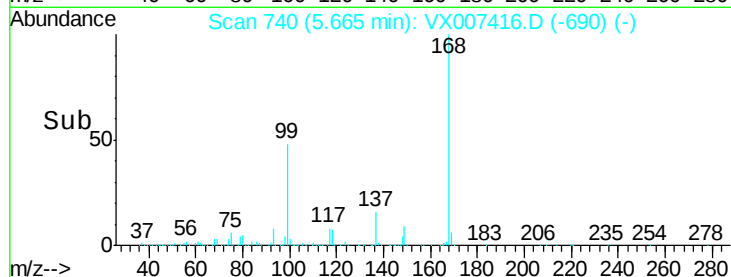
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.206 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007416.D

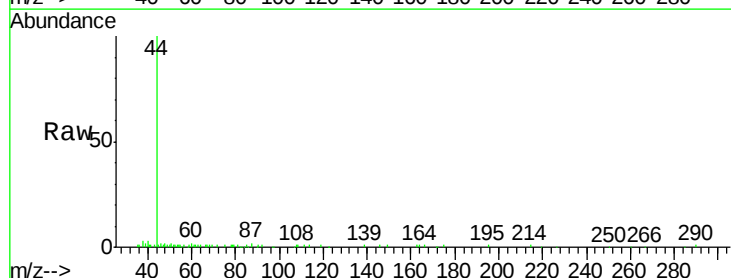
Acq: 07 Feb 2019 11:10

Tgt Ion: 85 Resp: 183

Ion Ratio Lower Upper

85 100

87 157.3 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

200

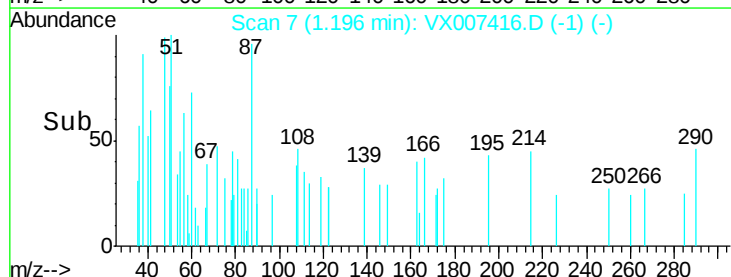
150

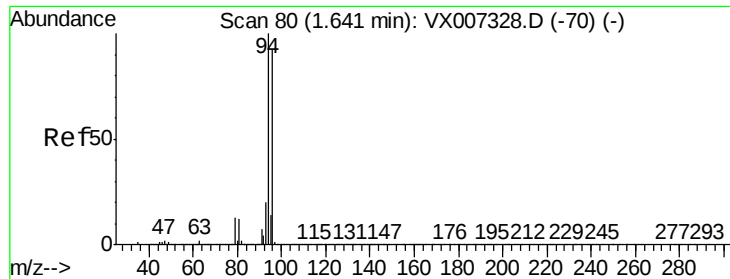
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

Instrument :

MSVOA\_X

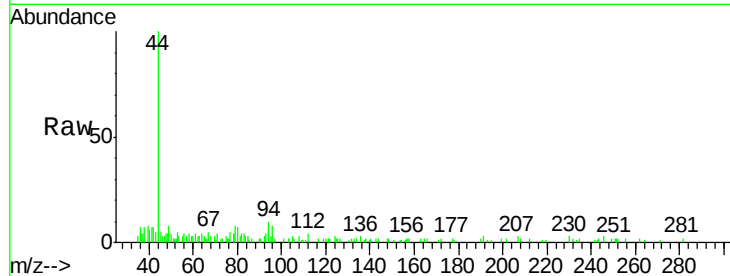
ClientSampled :

Tot Ion: 94 Resp: 668

Ion Ratio Lower Upper

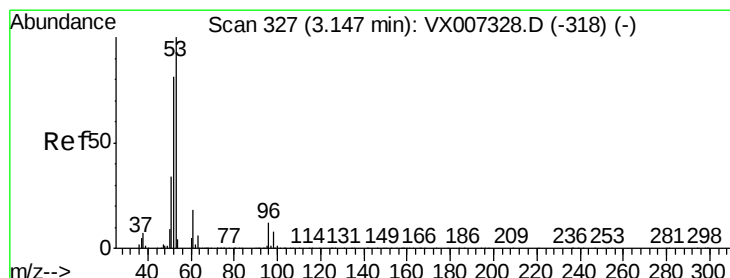
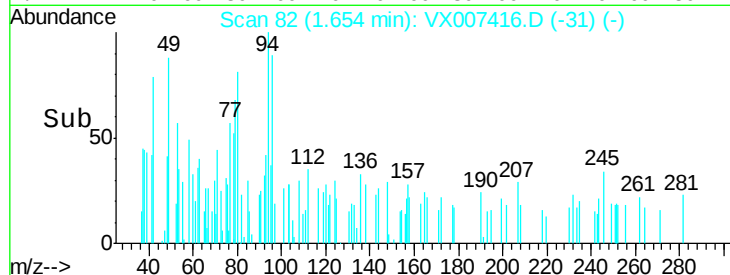
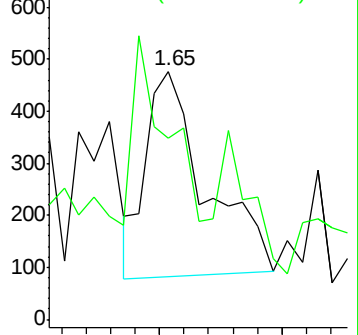
94 100

96 60.1 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#15

Acrylonitrile

Concen: 0.372 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

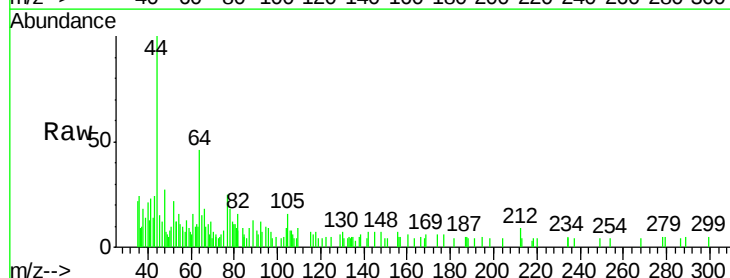
Tgt Ion: 53 Resp: 1041

Ion Ratio Lower Upper

53 100

52 37.2 66.4 99.6#

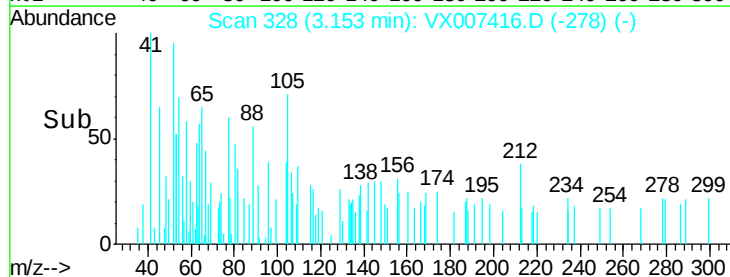
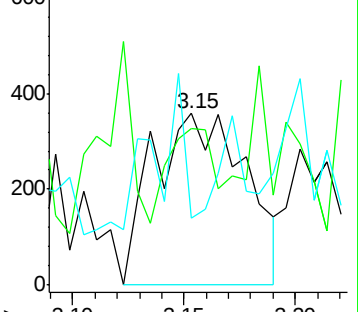
51 0.0 28.4 42.6#

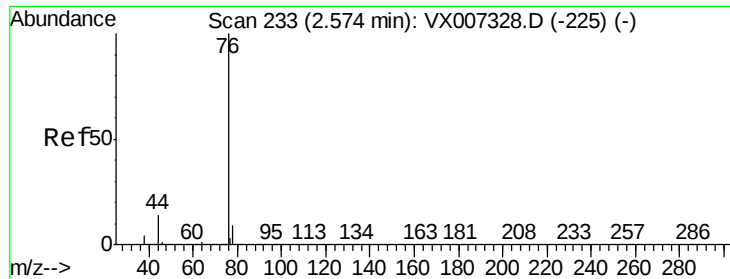


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#17

Carbon Disulfide

Concen: 2.281 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

Instrument :

MSVOA\_X

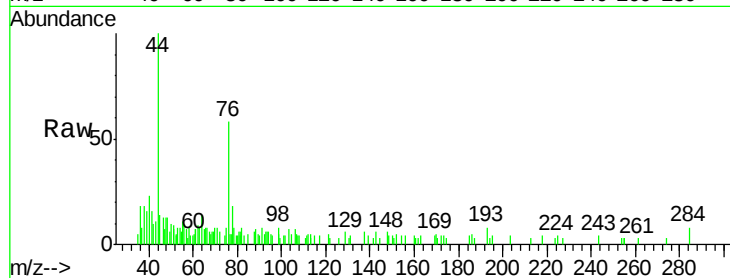
ClientSampled :

Tot Ion: 76 Resp: 2149

Ion Ratio Lower Upper

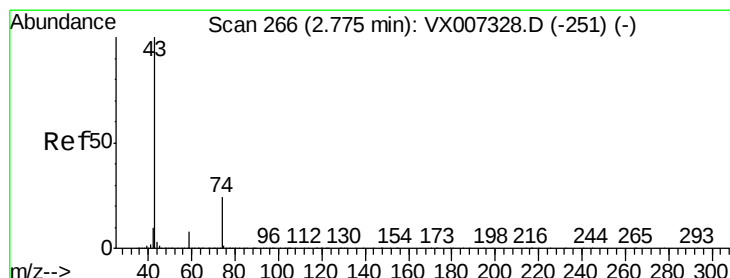
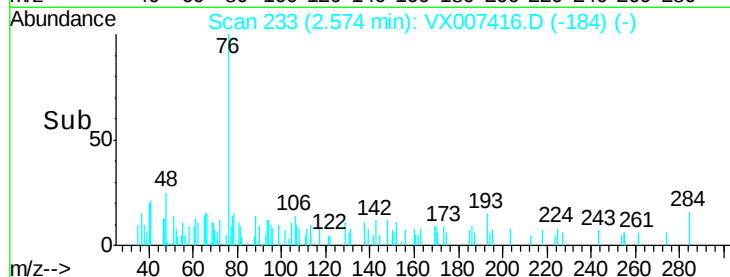
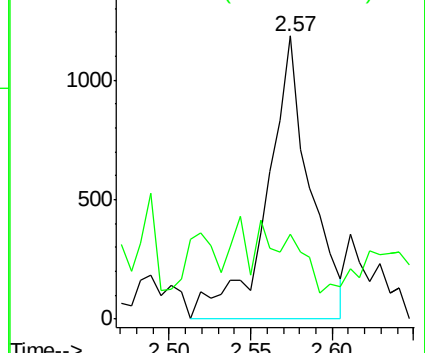
76 100

78 31.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.835 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX007416.D

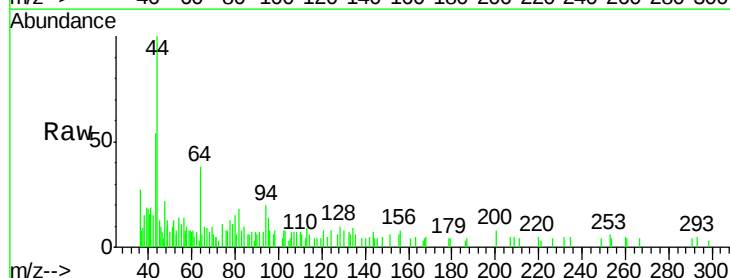
Acq: 07 Feb 2019 11:10

Tgt Ion: 43 Resp: 1596

Ion Ratio Lower Upper

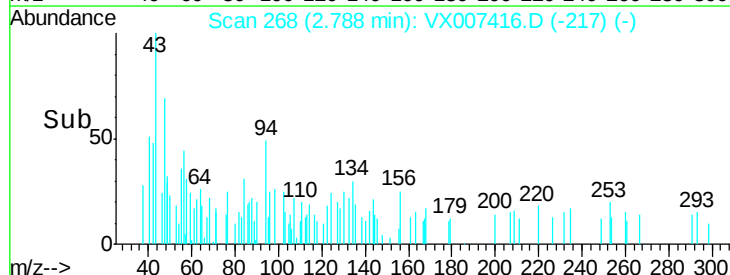
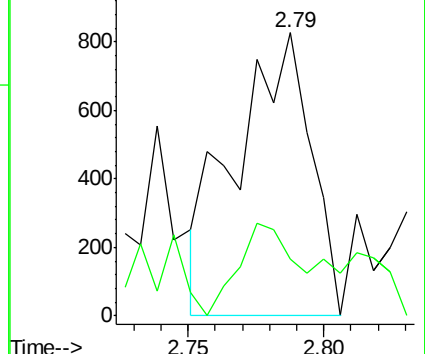
43 100

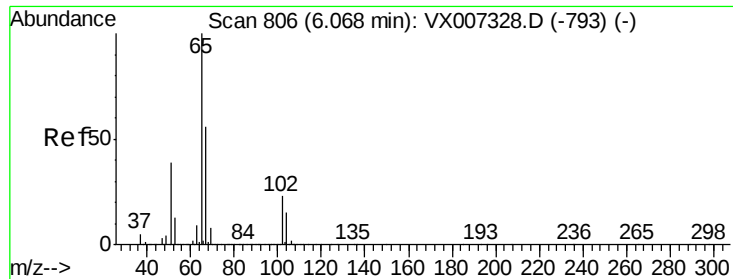
74 23.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.254 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

Instrument :

MSVOA\_X

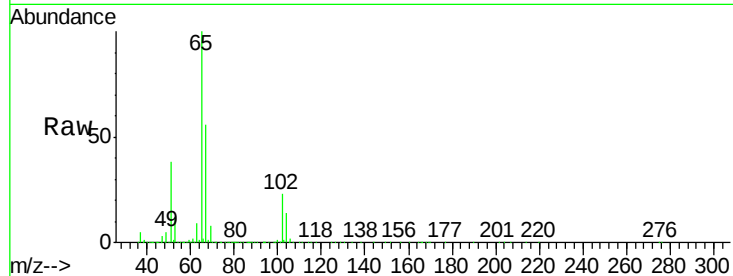
ClientSampleId :

Tot Ion: 65 Resp: 279996

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

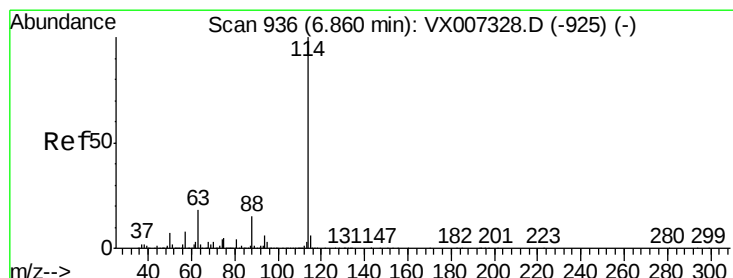
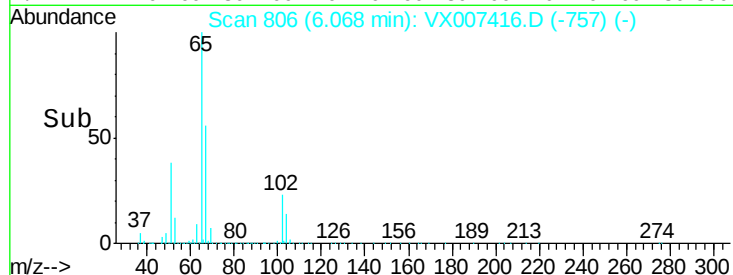
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

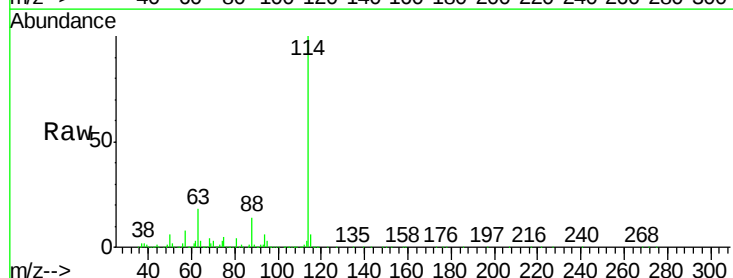
Tgt Ion: 114 Resp: 803294

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

88 14.5 0.0 29.6



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

6.86

400000

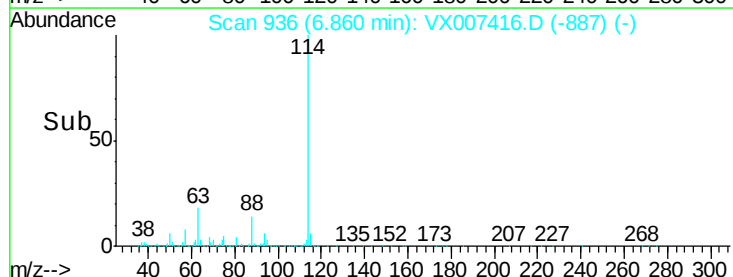
300000

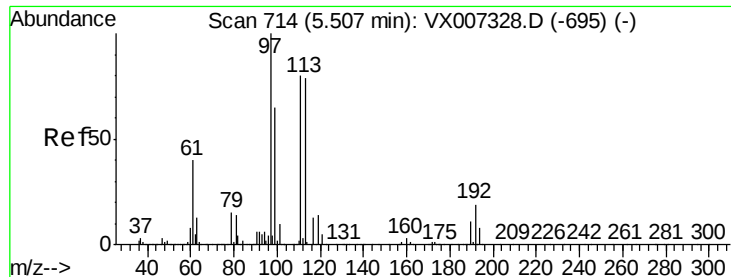
200000

100000

0

Time--> 6.70 6.80 6.90 7.00

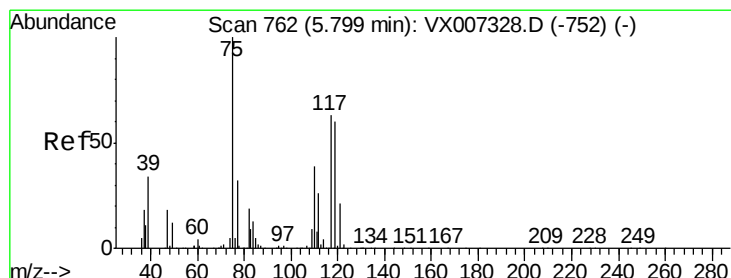
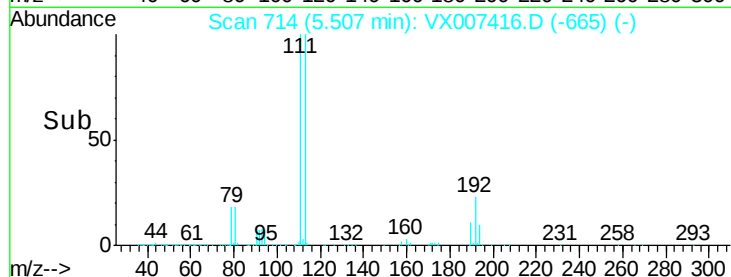
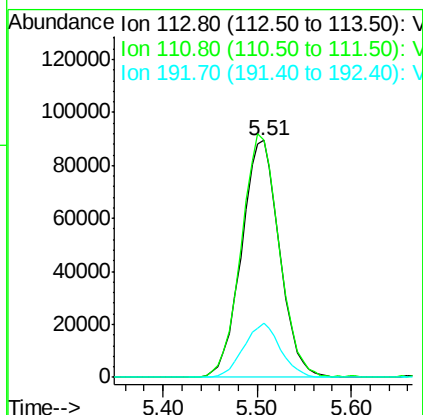
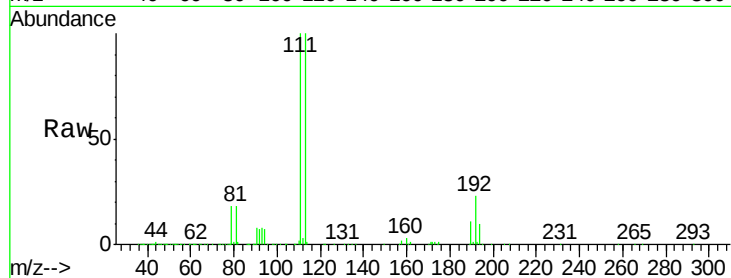




#35  
Dibromofluoromethane  
Concen: 48.223 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.00 min  
Lab File: VX007416.D  
Acq: 07 Feb 2019 11:10

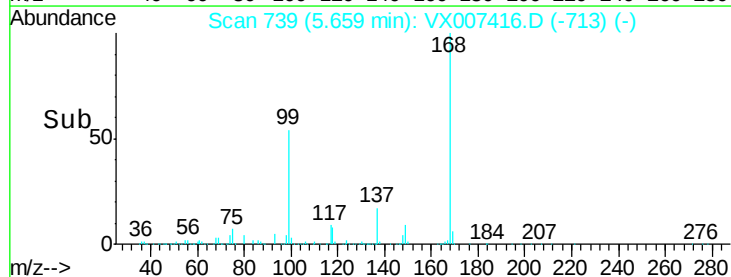
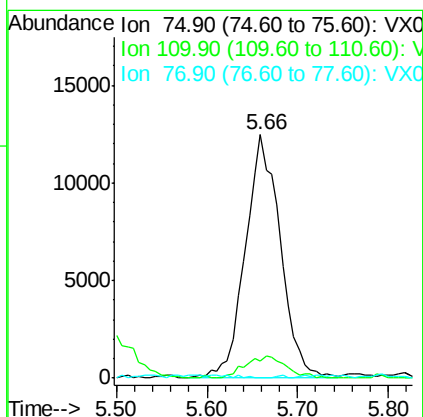
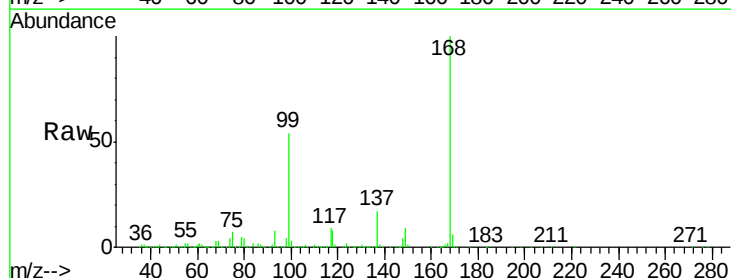
Instrument :  
MSVOA\_X  
ClientSampleId :

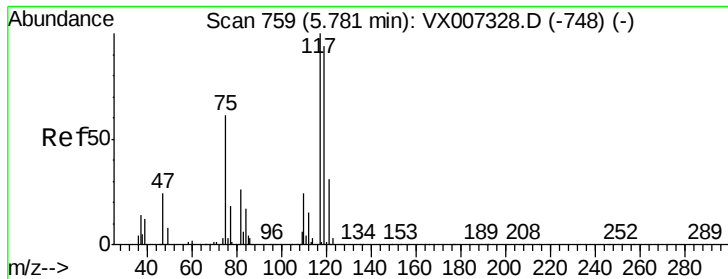
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.8  | 122.8 |
| 192     | 22.4  | 18.5  | 27.7  |



#36  
1,1-Dichloropropene  
Concen: 4.622 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.14 min  
Lab File: VX007416.D  
Acq: 07 Feb 2019 11:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.5  | 20.0  | 59.9# |
| 77      | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 6.645 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

Instrument :

MSVOA\_X

ClientSampleId :

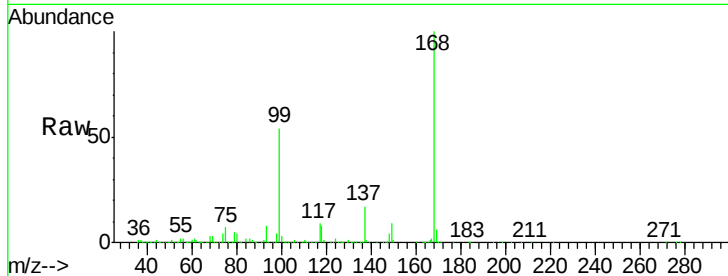
Tot Ion:117 Resp: 46466

Ion Ratio Lower Upper

117 100

119 6.9 75.3 112.9#

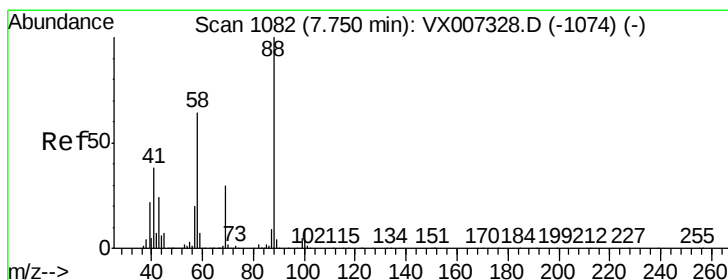
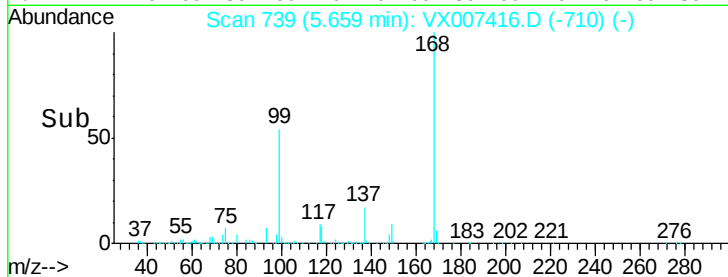
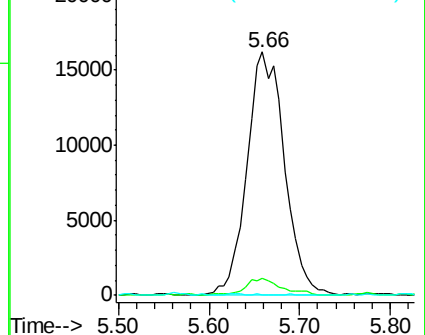
121 0.0 25.0 37.4#



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: 8.400 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

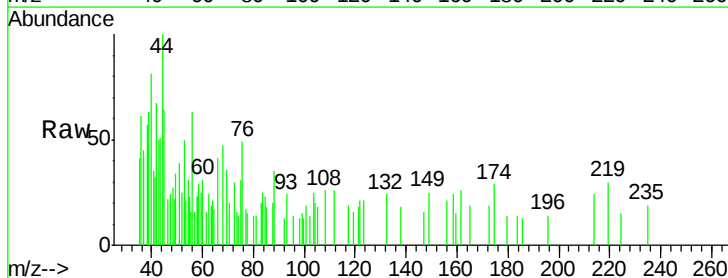
Tgt Ion: 88 Resp: 196

Ion Ratio Lower Upper

88 100

43 166.3 24.2 36.4#

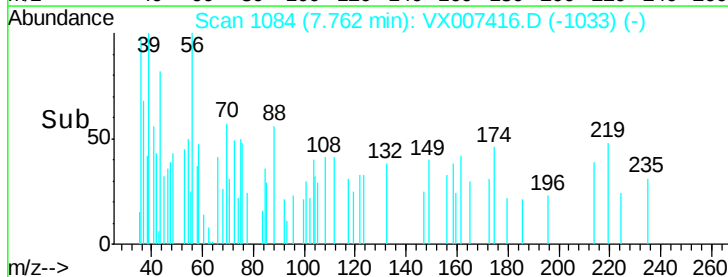
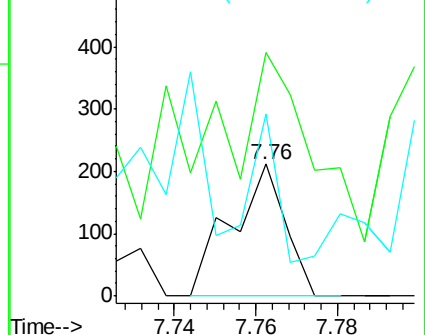
58 0.0 53.0 79.4#

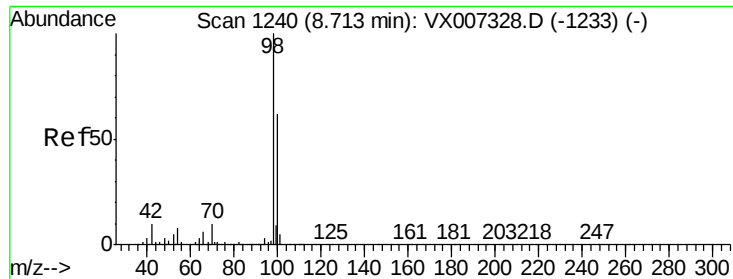


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.308 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

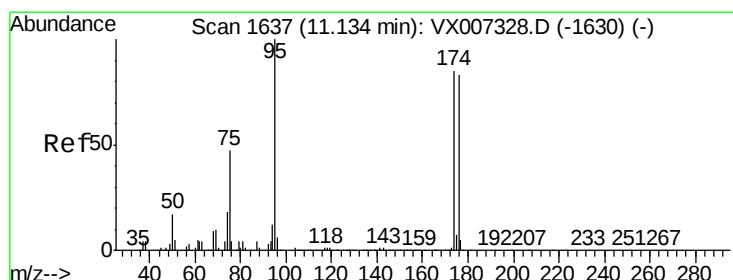
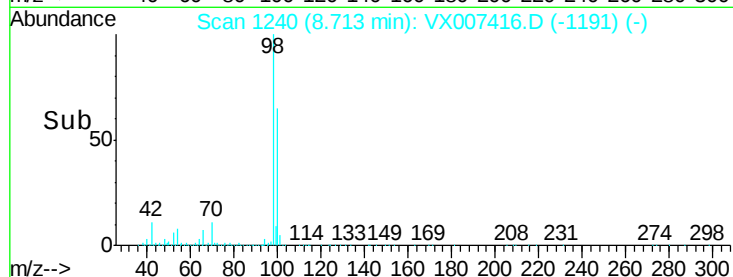
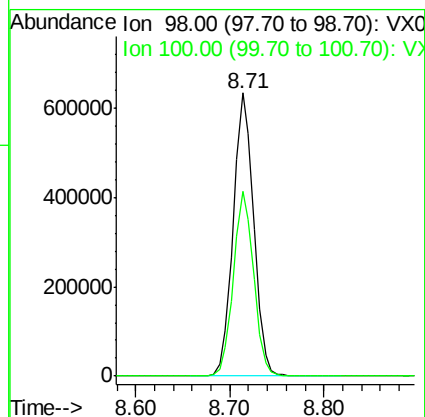
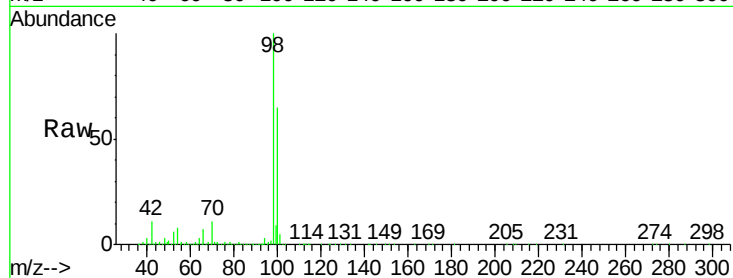
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 98 Resp: 956188

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 47.947 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

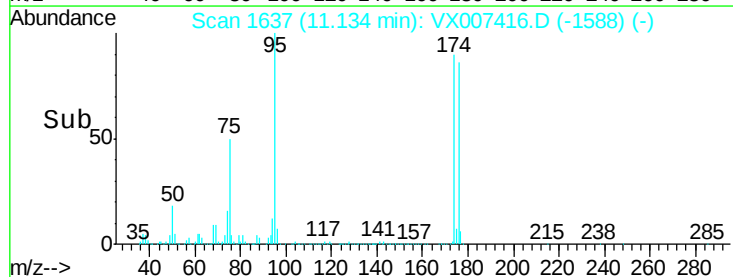
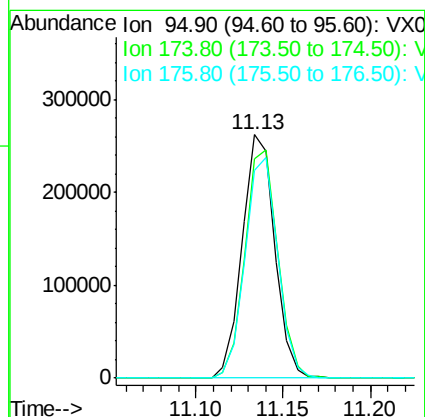
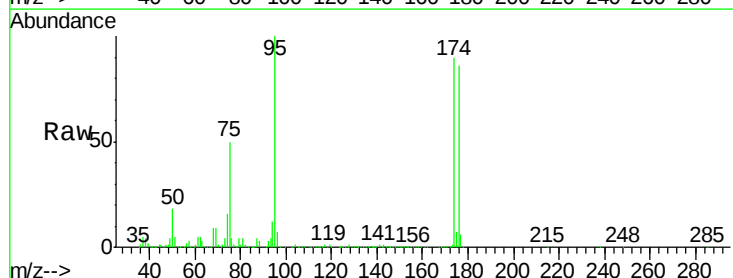
Tgt Ion: 95 Resp: 339470

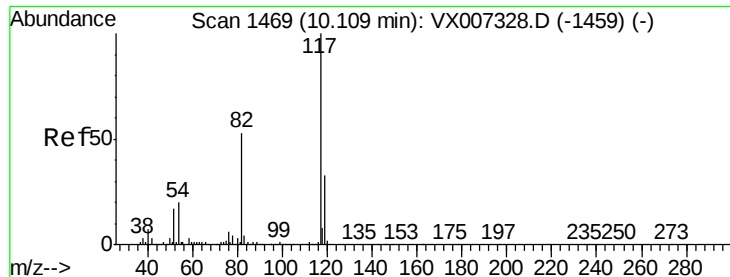
Ion Ratio Lower Upper

95 100

174 94.8 0.0 189.2

176 91.4 0.0 186.2

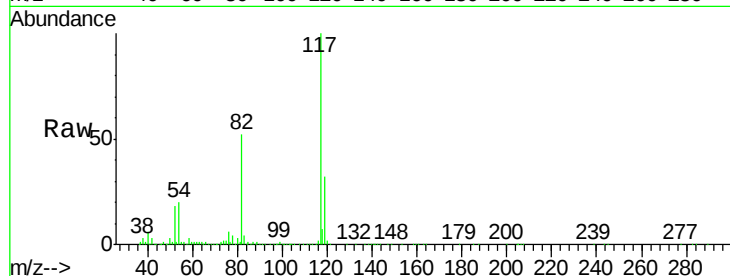




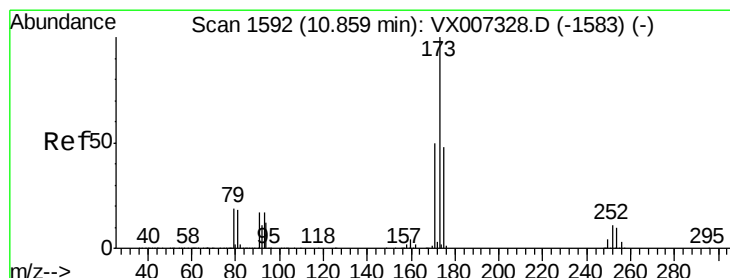
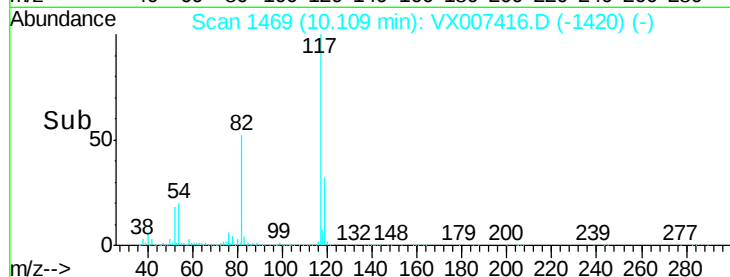
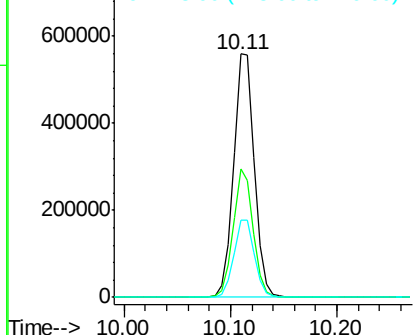
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX007416.D  
Acq: 07 Feb 2019 11:10

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 764542  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.1 63.1  
119 31.9 26.5 39.7

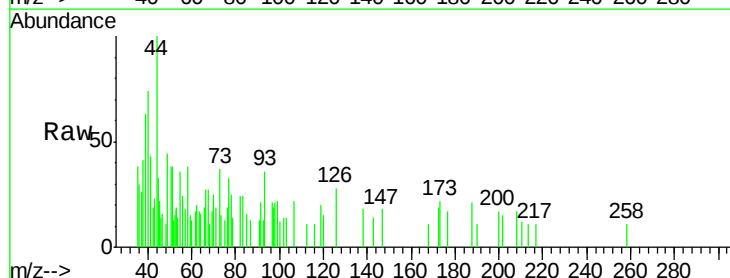


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

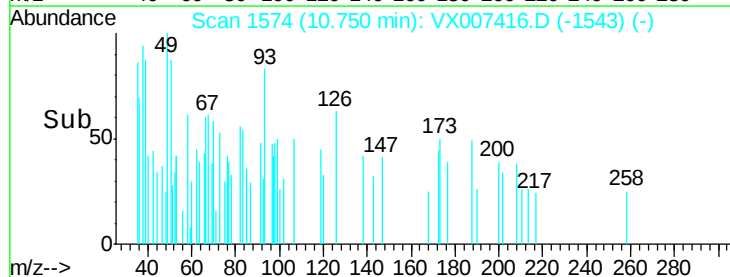
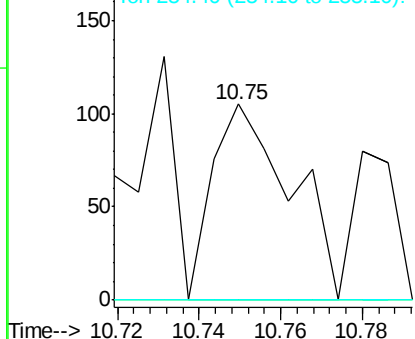


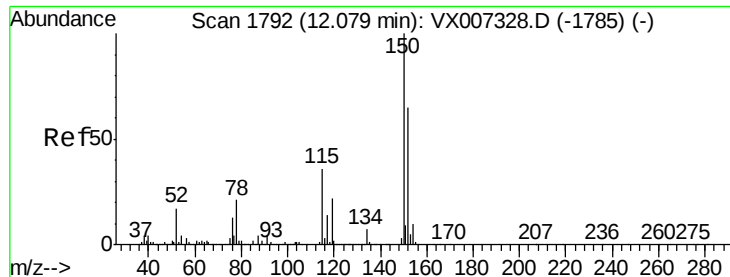
#71  
Bromoform  
Concen: 4.056 ug/l  
RT: 10.75 min Scan# 1574  
Delta R.T. -0.11 min  
Lab File: VX007416.D  
Acq: 07 Feb 2019 11:10

Tgt Ion:173 Resp: 141  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): 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: VX007416.D

Acq: 07 Feb 2019 11:10

Instrument :

MSVOA\_X

ClientSampleId :

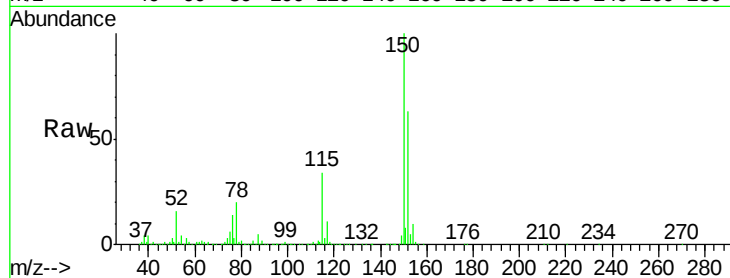
Tot Ion:152 Resp: 364108

Ion Ratio Lower Upper

152 100

115 55.0 38.0 114.0

150 158.4 0.0 346.4



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

600000

500000

400000

300000

200000

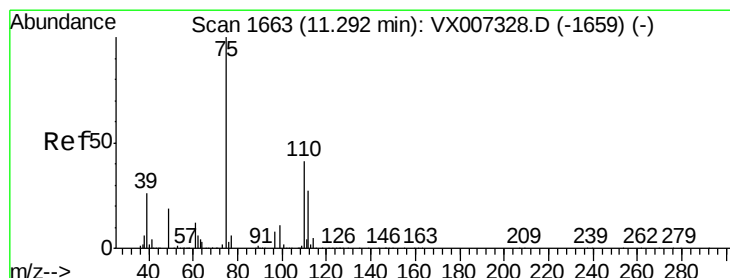
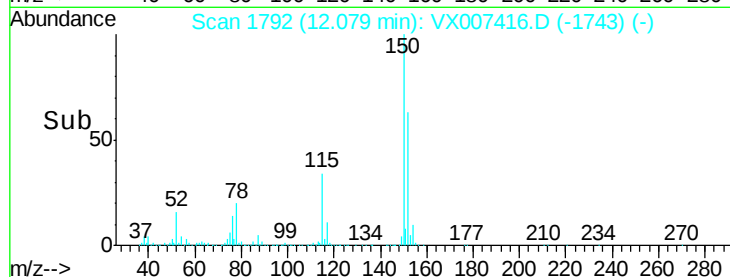
100000

0

12.00

12.10

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.432 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007416.D

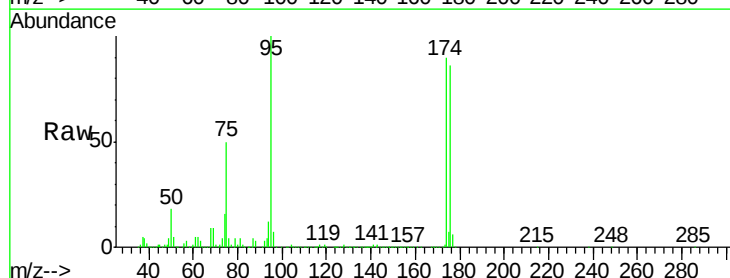
Acq: 07 Feb 2019 11:10

Tgt Ion: 75 Resp: 165955

Ion Ratio Lower Upper

75 100

77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

150000

100000

50000

0

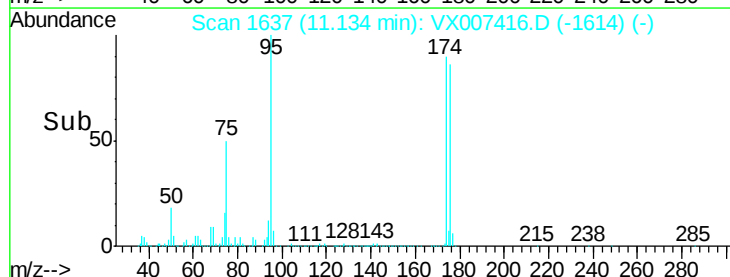
11.05

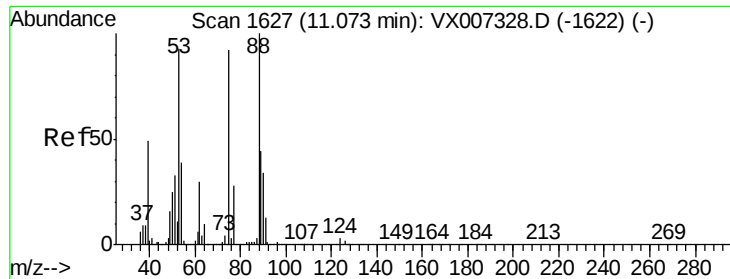
11.10

11.15

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 70.530 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

Instrument :

MSVOA\_X

ClientSampleId :

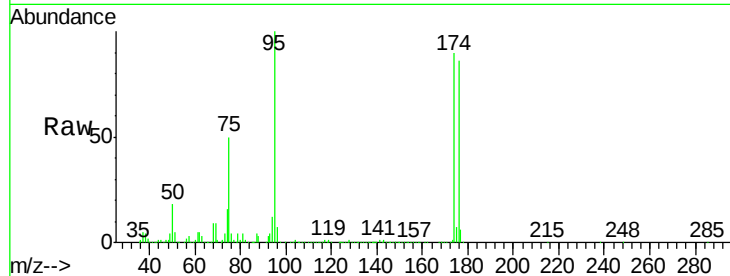
Tot Ion: 75 Resp: 165955

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

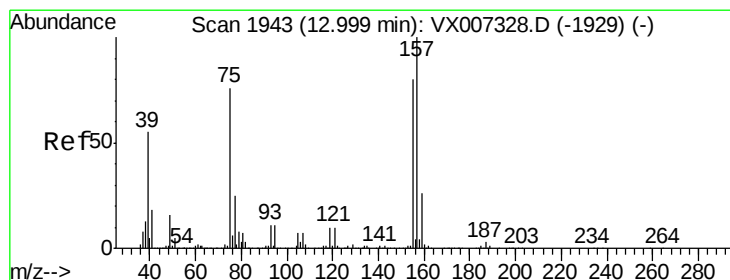
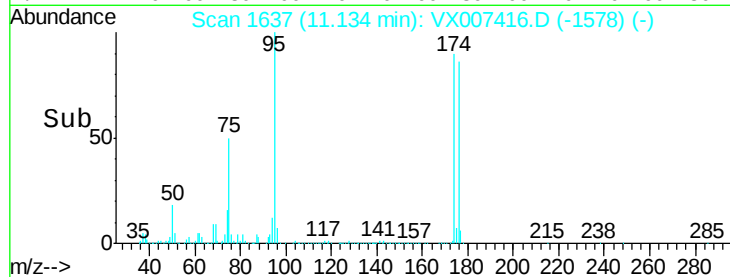
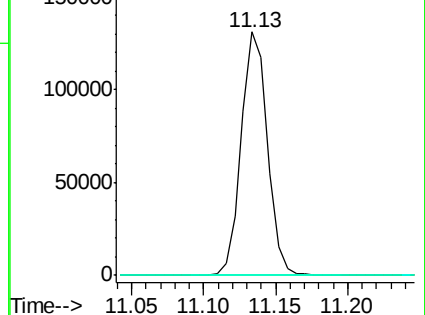
89 0.0 41.4 62.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.260 ug/l

RT: 13.04 min Scan# 1950

Delta R.T. 0.04 min

Lab File: VX007416.D

Acq: 07 Feb 2019 11:10

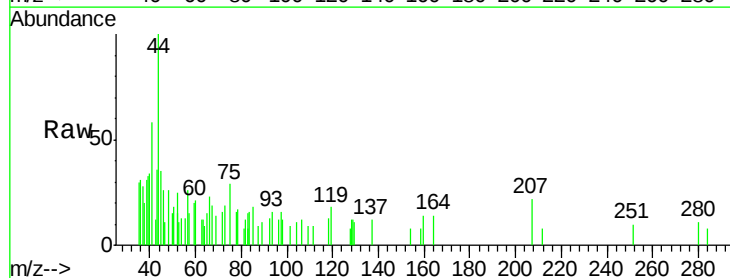
Tgt Ion: 75 Resp: 407

Ion Ratio Lower Upper

75 100

155 0.0 49.6 149.0#

157 13.3 65.1 195.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

