

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX031319\  
 Data File : VX008037.D  
 Acq On : 13 Mar 2019 09:51  
 Operator : JC/SP  
 Sample : VX0313MBL01  
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0313MBL01

Quant Time: Mar 13 10:10:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 246081   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 386019   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 367141   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 180707   | 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   | 134556   | 51.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.66% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 125232   | 50.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.44% |          |
| 50) Toluene-d8              | 8.71  | 98   | 468077   | 51.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.24% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 172795   | 54.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.70% |          |

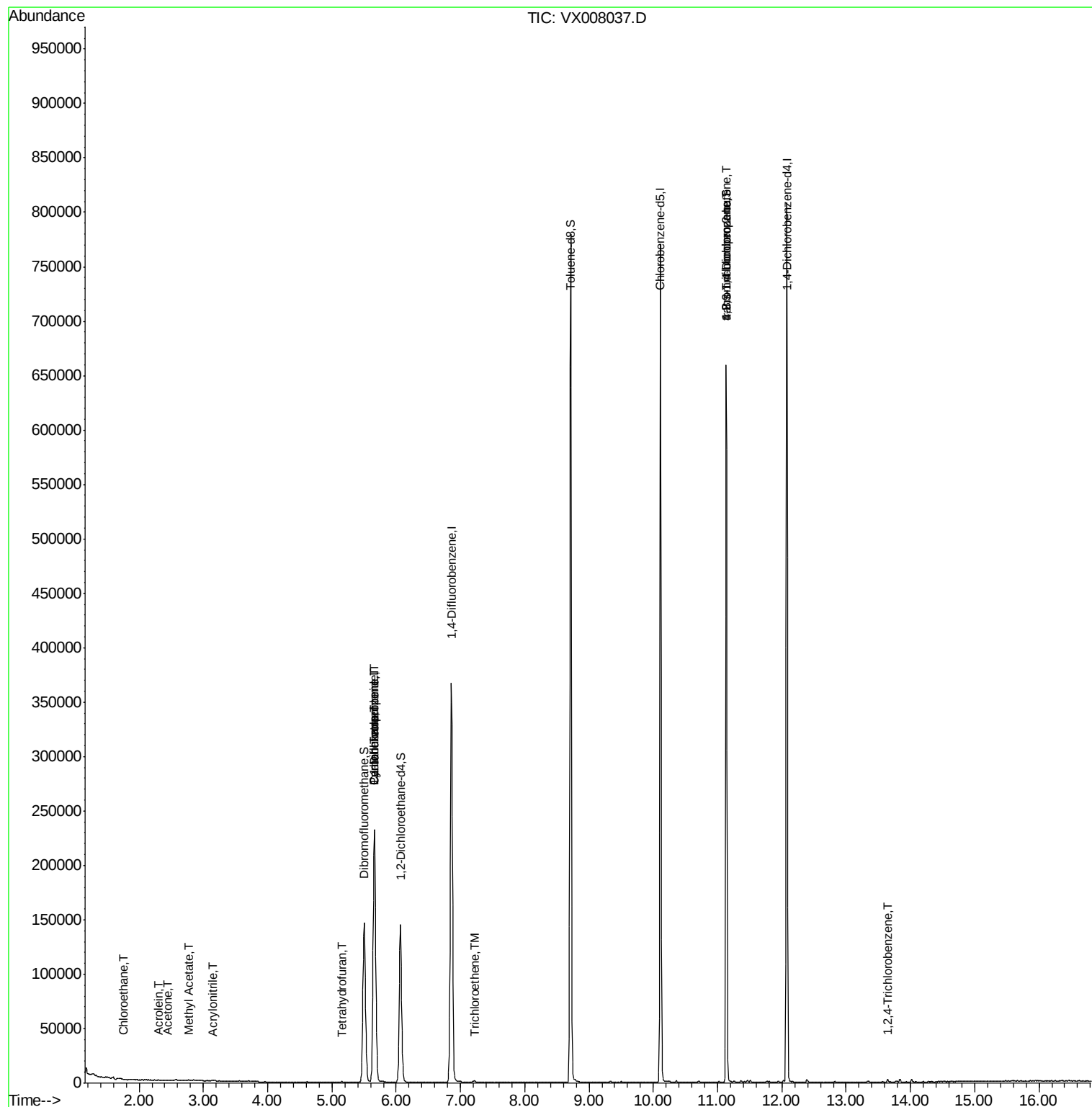
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.67  | 94   | 478      | Below Cal |        | 97     |
| 6) Chloroethane                | 1.76  | 64   | 578      | 0.323     | ug/l # | 43     |
| 13) Acrolein                   | 2.29  | 56   | 118      | 1.898     | ug/l # | 40     |
| 15) Acrylonitrile              | 3.15  | 53   | 493      | 0.336     | ug/l   | 94     |
| 16) Acetone                    | 2.45  | 43   | 522      | 0.347     | ug/l # | 85     |
| 17) Carbon Disulfide           | 2.58  | 76   | 1546     | Below Cal | #      | 84     |
| 18) Methyl Acetate             | 2.78  | 43   | 753      | 0.236     | ug/l # | 72     |
| 29) Tetrahydrofuran            | 5.17  | 42   | 316      | 0.238     | ug/l # | 50     |
| 31) Cyclohexane                | 5.66  | 56   | 3944     | 0.989     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14985    | 4.287     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20620    | 6.214     | ug/l # | 17     |
| 44) Trichloroethene            | 7.21  | 130  | 642      | 0.224     | ug/l   | 89     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 79208    | 20.888    | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 79208    | 66.769    | ug/l # | 11     |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 828      | 0.200     | ug/l   | 91     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX031319\  
Data File : VX008037.D  
Acq On : 13 Mar 2019 09:51  
Operator : JC/SP  
Sample : VX0313MBL01  
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleID :  
VX0313MBL01

Quant Time: Mar 13 10:10:39 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:33:26 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: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

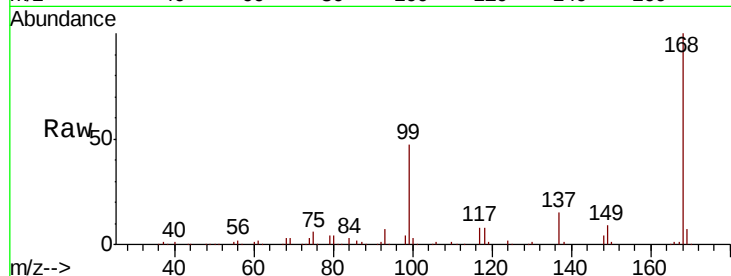
VX0313MBL01

Tgt Ion:168 Resp: 246081

Ion Ratio Lower Upper

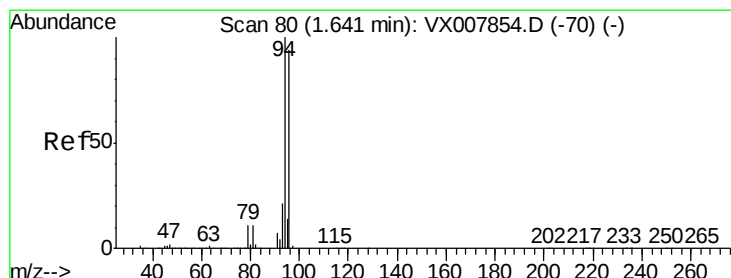
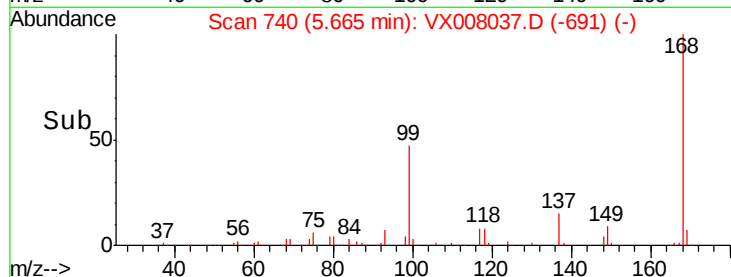
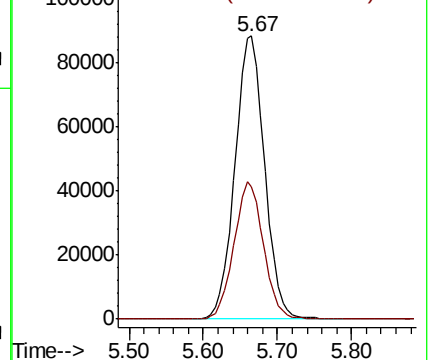
168 100

99 46.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX008037.D

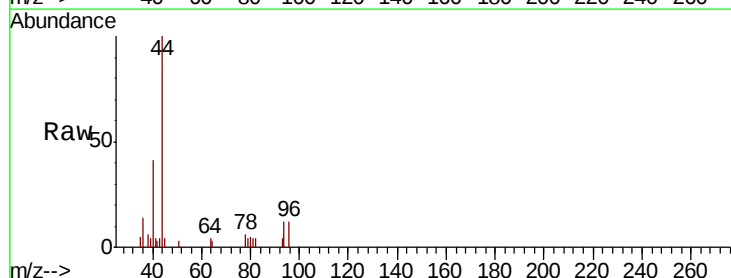
Acq: 13 Mar 2019 09:51

Tgt Ion: 94 Resp: 478

Ion Ratio Lower Upper

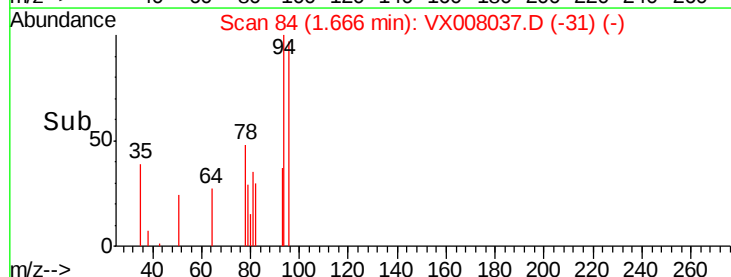
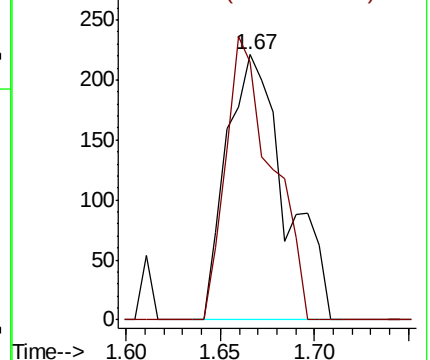
94 100

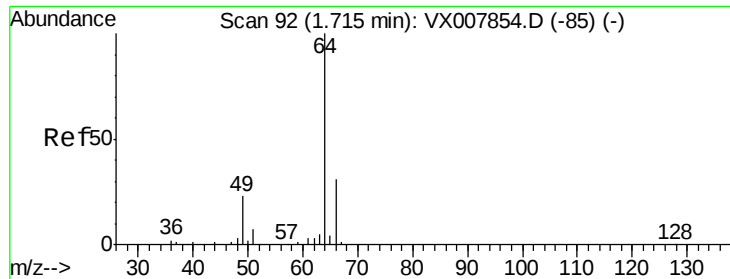
96 97.3 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.323 ug/l

RT: 1.76 min Scan# 99

Delta R.T. 0.04 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

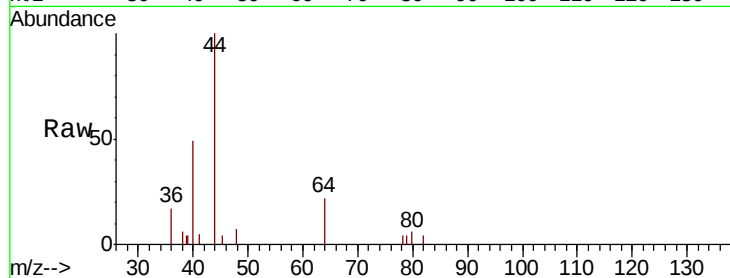
VX0313MBL01

Tgt Ion: 64 Resp: 578

Ion Ratio Lower Upper

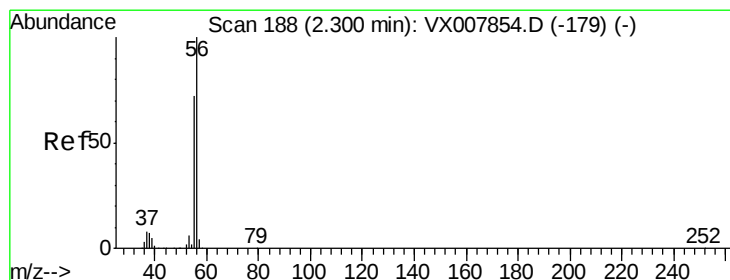
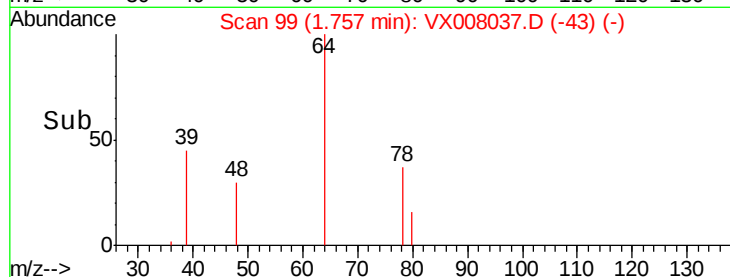
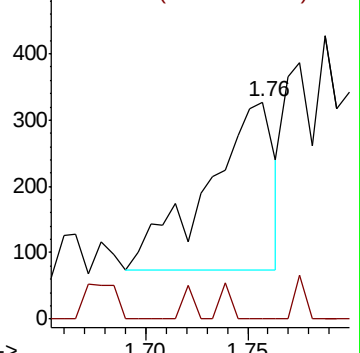
64 100

66 0.0 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#13

Acrolein

Concen: 1.898 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX008037.D

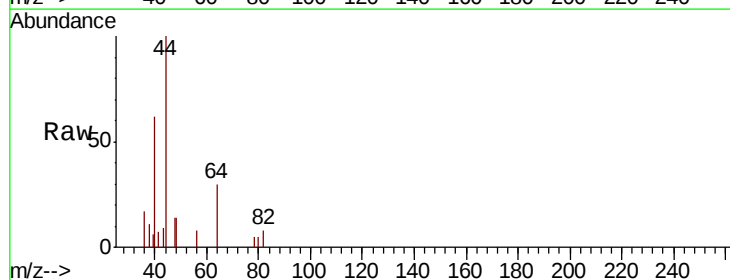
Acq: 13 Mar 2019 09:51

Tgt Ion: 56 Resp: 118

Ion Ratio Lower Upper

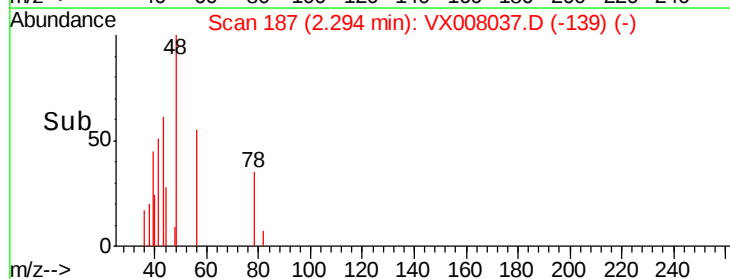
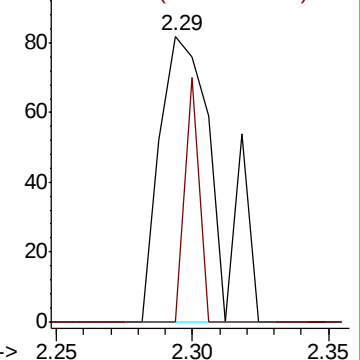
56 100

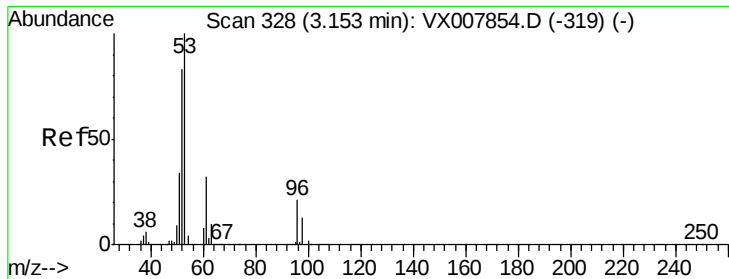
55 22.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.336 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

VX0313MBL01

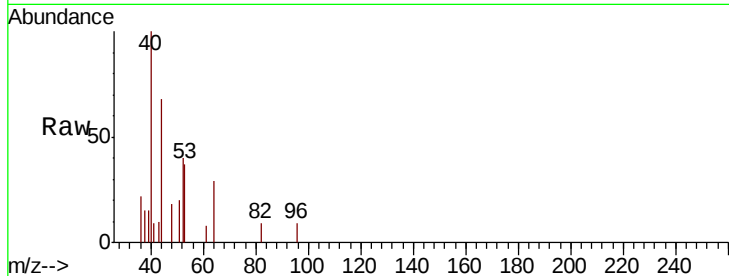
Tgt Ion: 53 Resp: 493

Ion Ratio Lower Upper

53 100

52 86.2 66.0 99.0

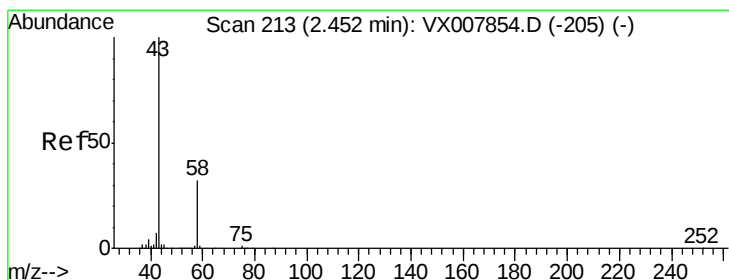
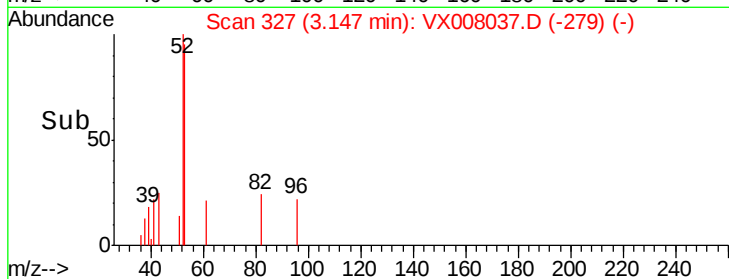
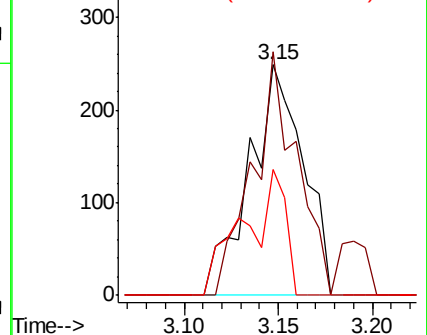
51 42.0 28.0 42.0



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



#16

Acetone

Concen: 0.347 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008037.D

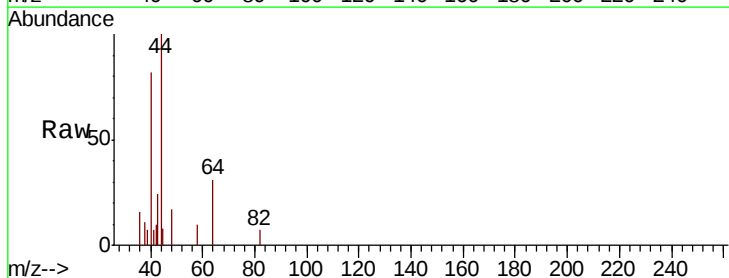
Acq: 13 Mar 2019 09:51

Tgt Ion: 43 Resp: 522

Ion Ratio Lower Upper

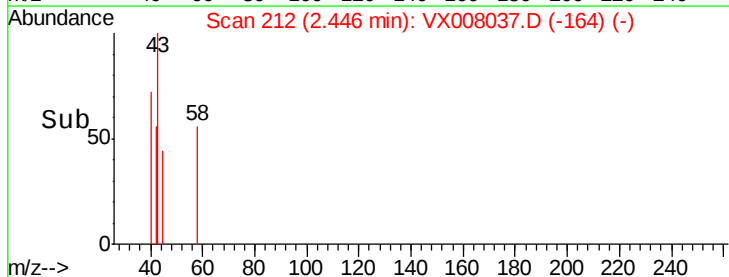
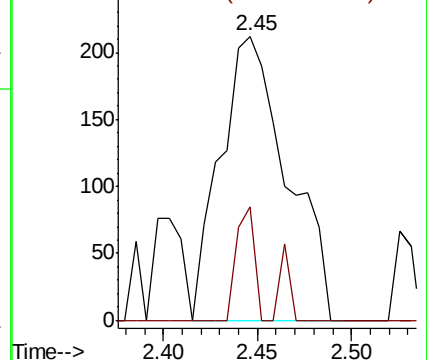
43 100

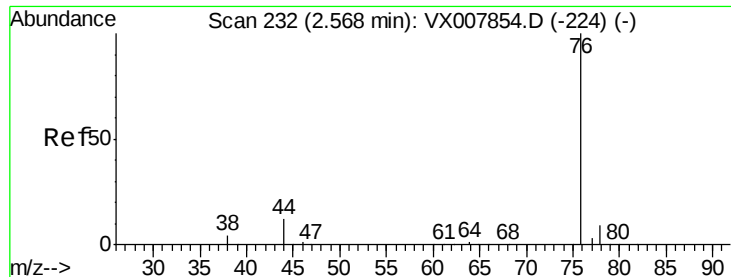
58 40.1 25.5 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

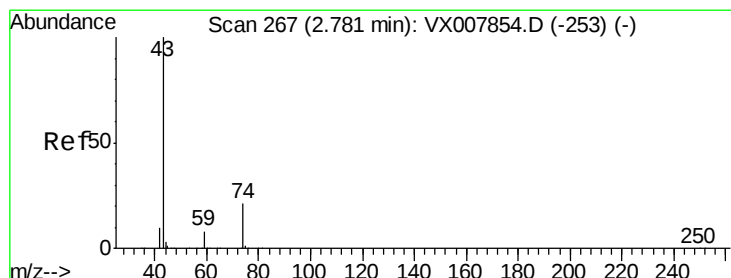
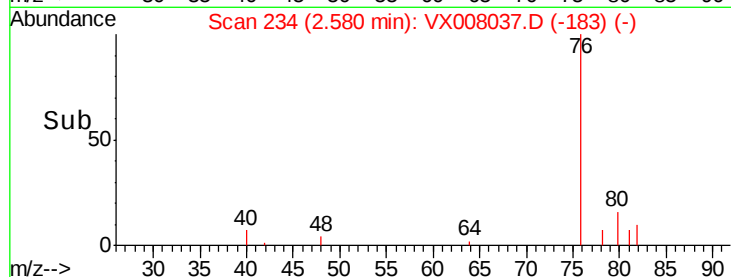
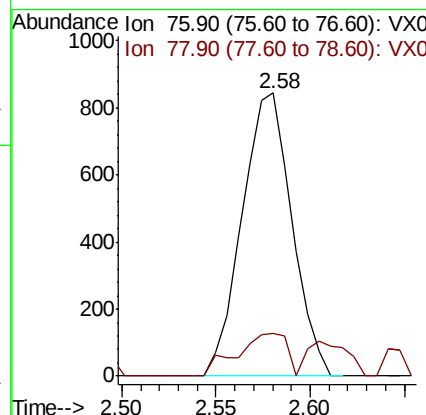
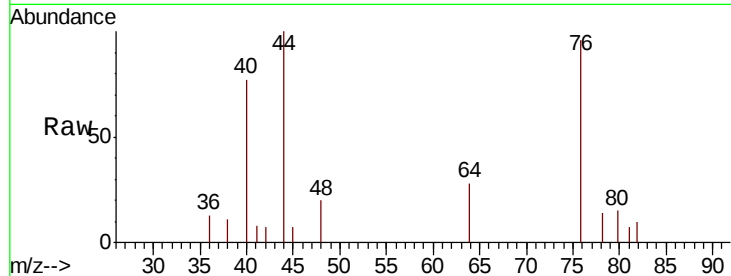




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 2.58 min Scan# 234  
Delta R.T. 0.01 min  
Lab File: VX008037.D  
Acq: 13 Mar 2019 09:51

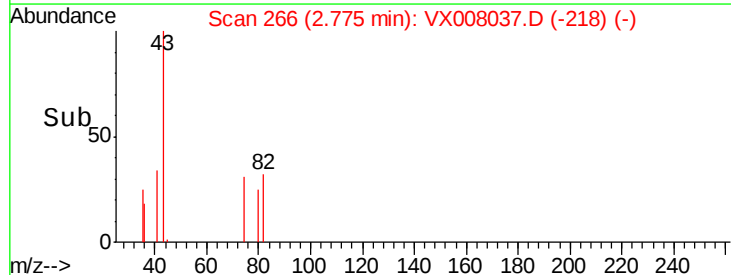
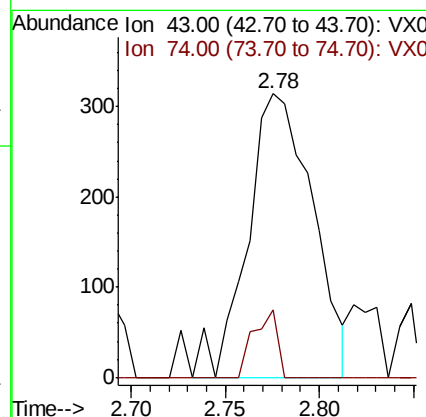
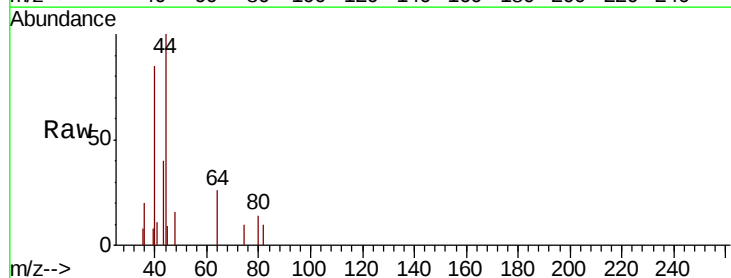
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0313MBL01

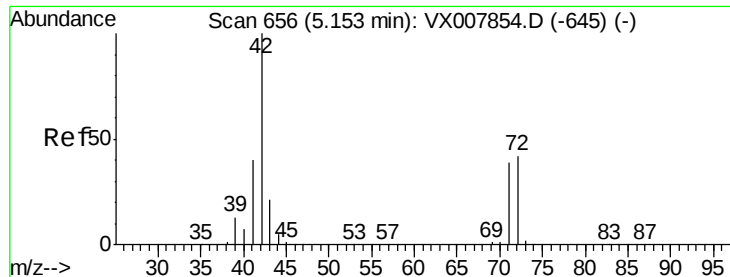
Tgt Ion: 76 Resp: 1546  
Ion Ratio Lower Upper  
76 100  
78 14.9 7.2 10.8#



#18  
Methyl Acetate  
Concen: 0.236 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX008037.D  
Acq: 13 Mar 2019 09:51

Tgt Ion: 43 Resp: 753  
Ion Ratio Lower Upper  
43 100  
74 8.8 17.8 26.6#





#29

Tetrahydrofuran

Concen: 0.238 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

VX0313MBL01

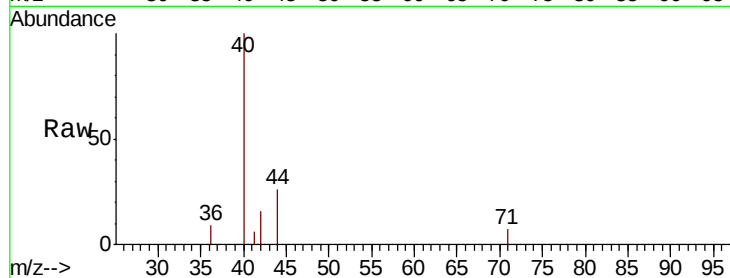
Tgt Ion: 42 Resp: 316

Ion Ratio Lower Upper

42 100

72 6.6 33.8 50.6#

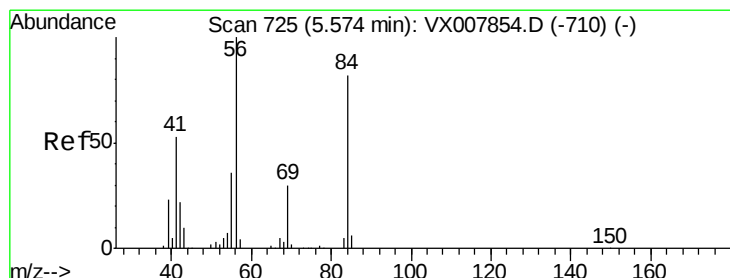
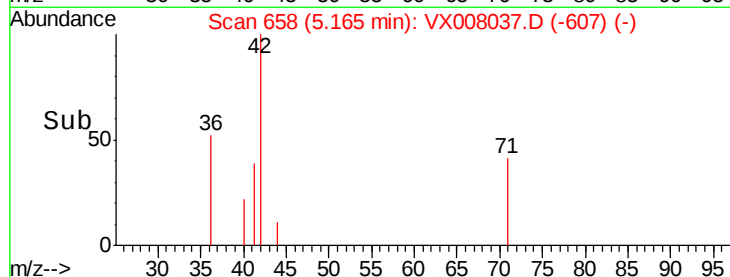
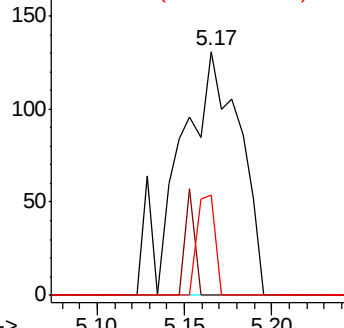
71 12.3 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.989 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

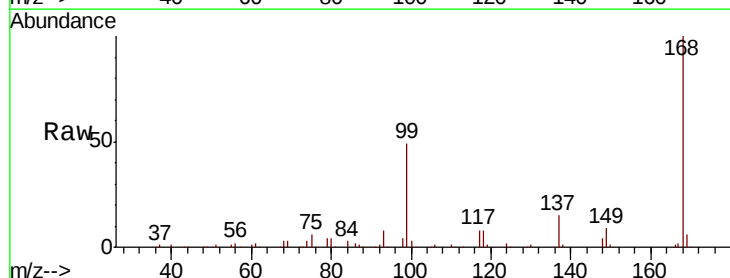
Tgt Ion: 56 Resp: 3944

Ion Ratio Lower Upper

56 100

69 201.5 24.0 36.0#

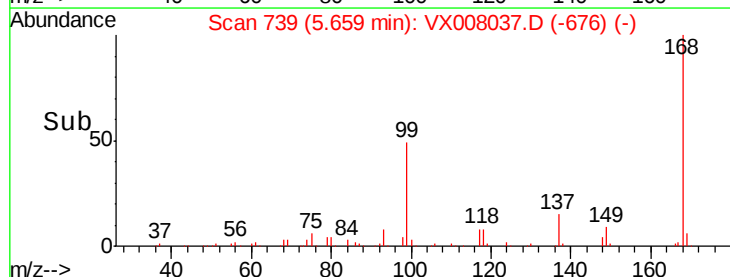
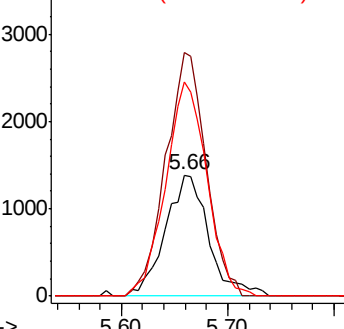
84 176.9 65.3 97.9#

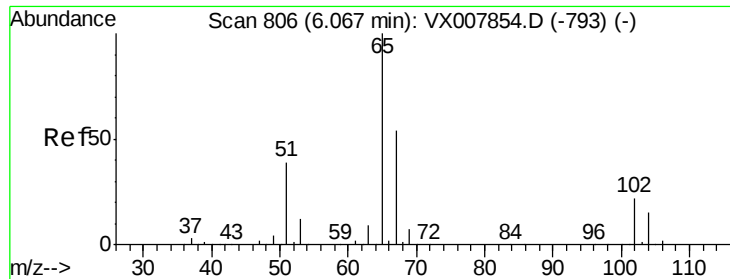


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

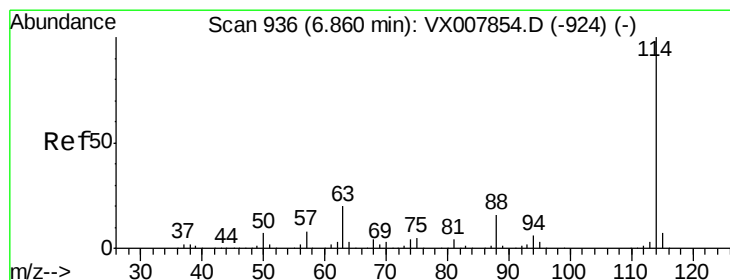
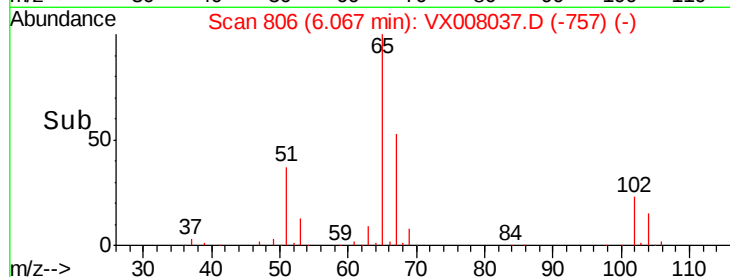
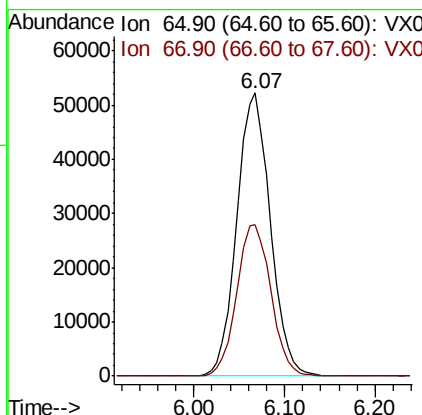
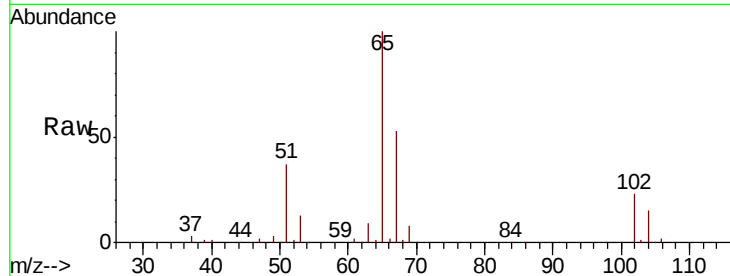




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.834 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. 0.00 min  
 Lab File: VX008037.D  
 Acq: 13 Mar 2019 09:51

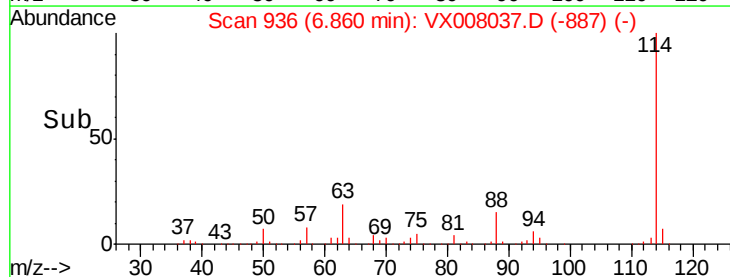
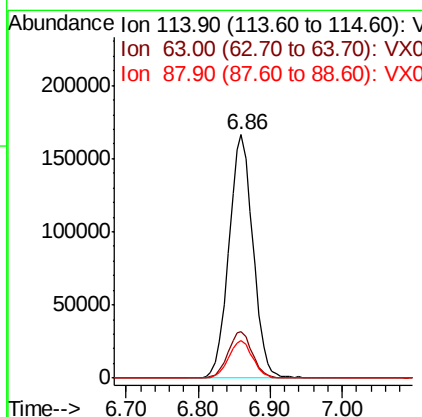
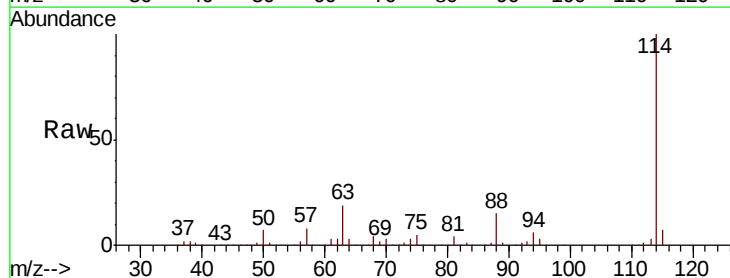
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0313MBL01

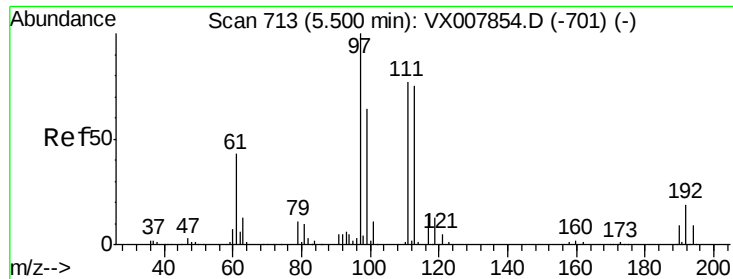
Tgt Ion: 65 Resp: 134556  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 110.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX008037.D  
 Acq: 13 Mar 2019 09:51

Tgt Ion: 114 Resp: 386019  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 39.8  
 88 15.5 0.0 31.4

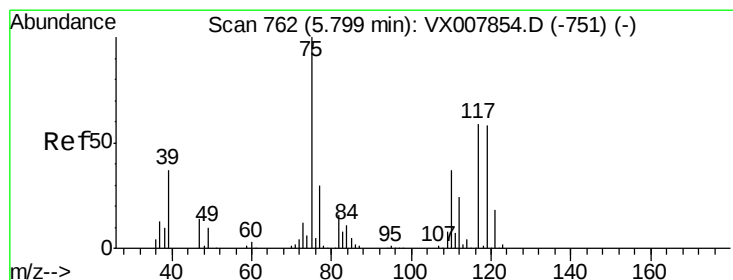
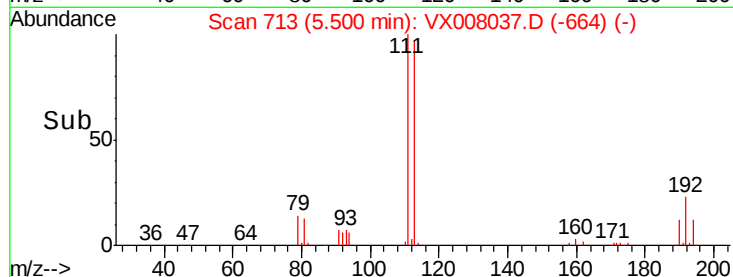
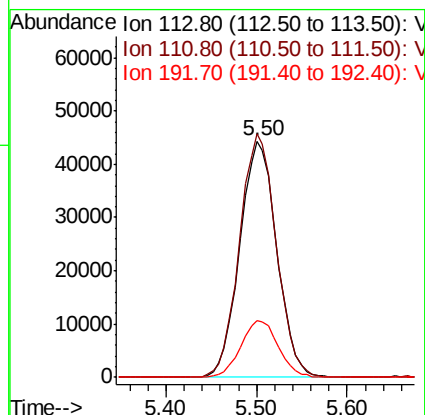
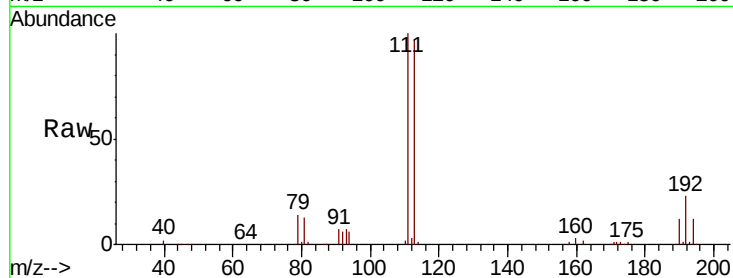




#35  
 Dibromofluoromethane  
 Concen: 50.717 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX008037.D  
 Acq: 13 Mar 2019 09:51

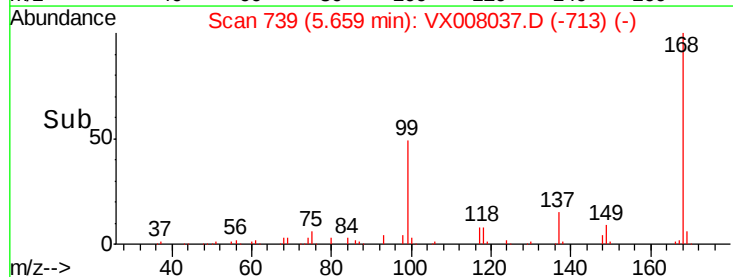
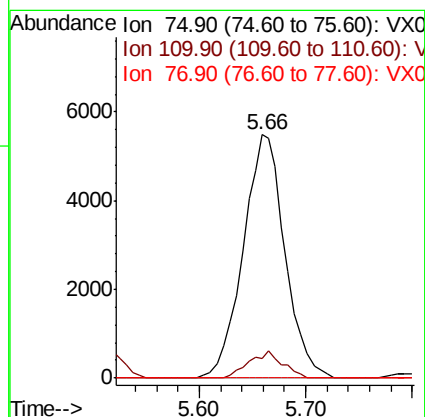
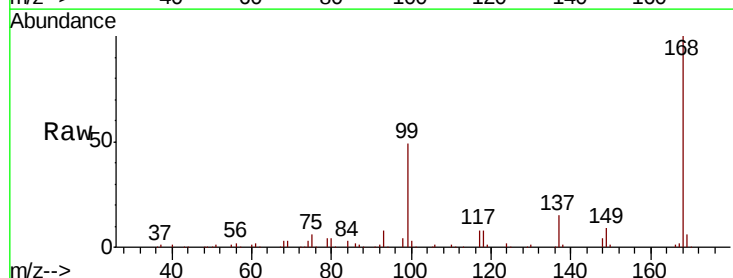
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0313MBL01

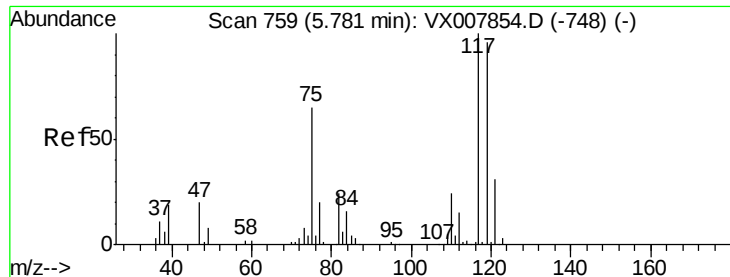
Tgt Ion:113 Resp: 125232  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.4 122.0  
 192 24.4 19.4 29.0



#36  
 1,1-Dichloropropene  
 Concen: 4.287 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX008037.D  
 Acq: 13 Mar 2019 09:51

Tgt Ion: 75 Resp: 14985  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 18.4 55.0#  
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.214 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

VX0313MBL01

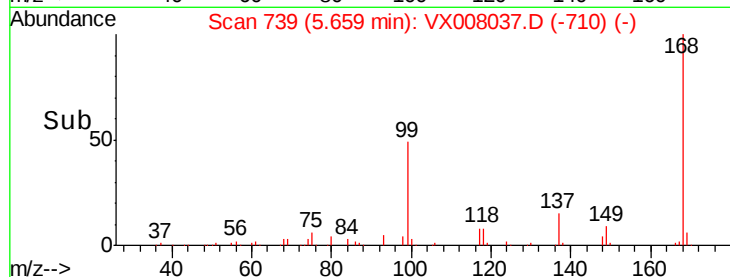
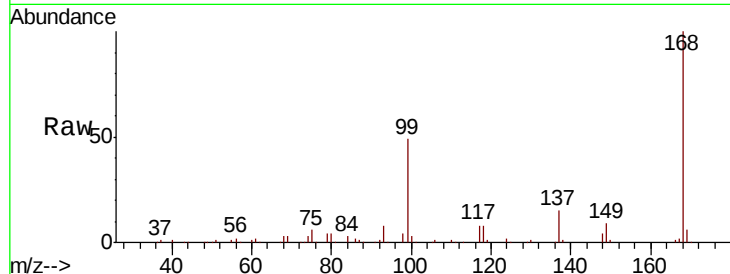
Tgt Ion:117 Resp: 20620

Ion Ratio Lower Upper

117 100

119 6.3 76.2 114.2#

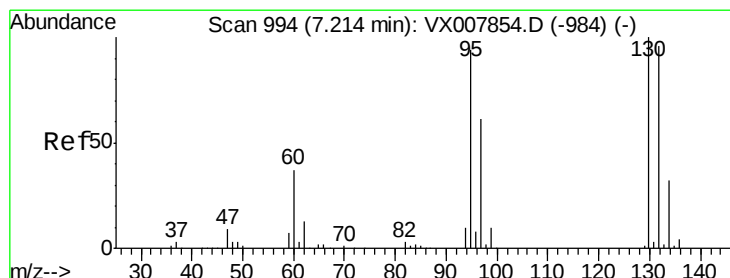
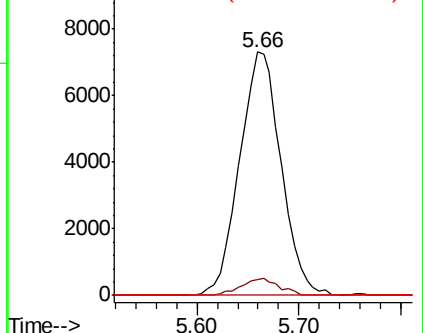
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 0.224 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008037.D

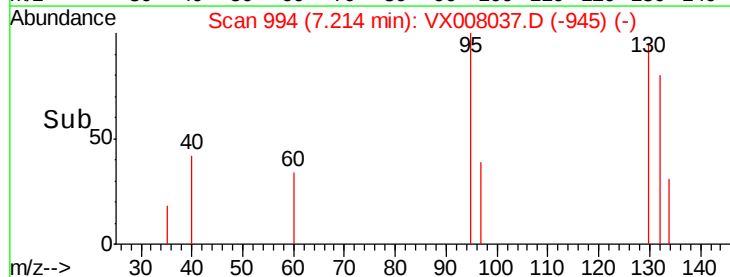
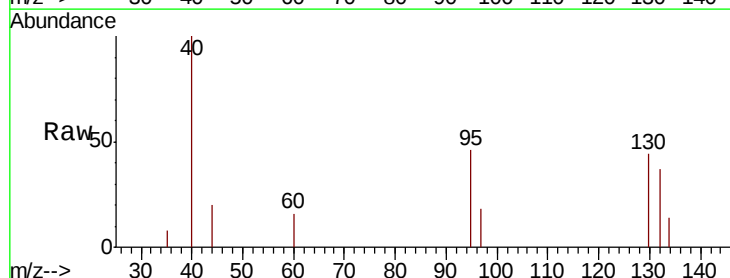
Acq: 13 Mar 2019 09:51

Tgt Ion:130 Resp: 642

Ion Ratio Lower Upper

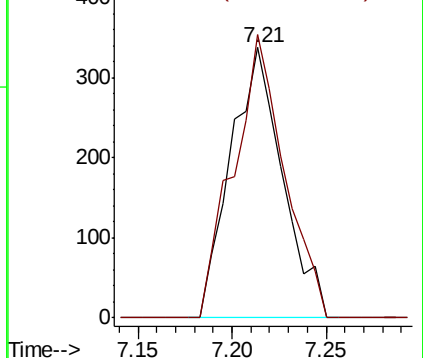
130 100

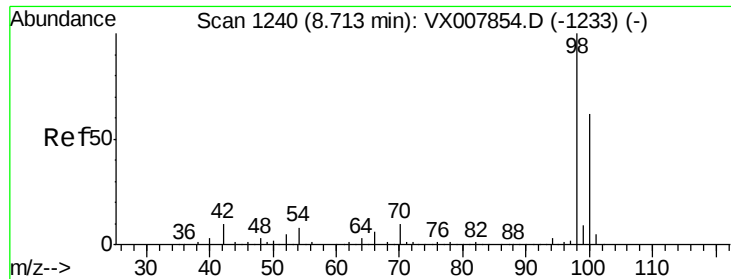
95 104.7 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

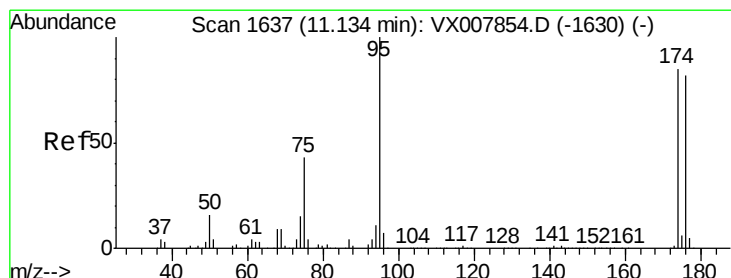
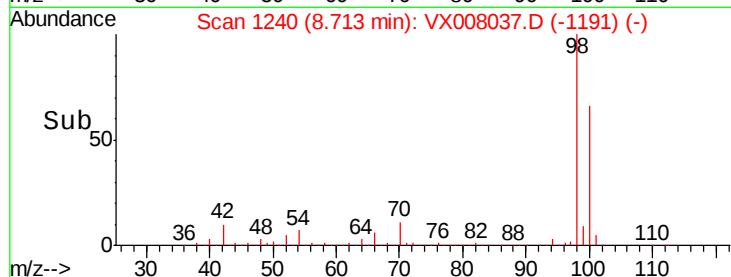
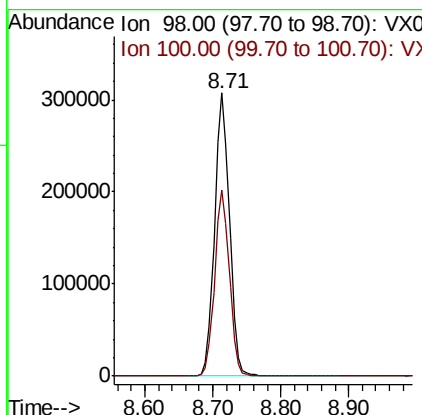
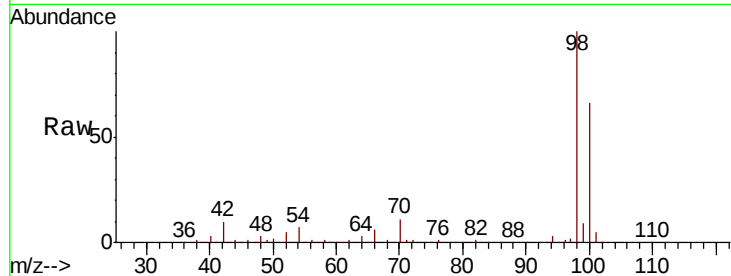




#50  
Toluene-d8  
Concen: 51.616 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX008037.D  
Acq: 13 Mar 2019 09:51

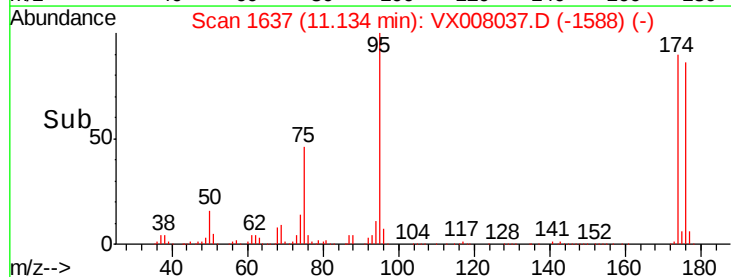
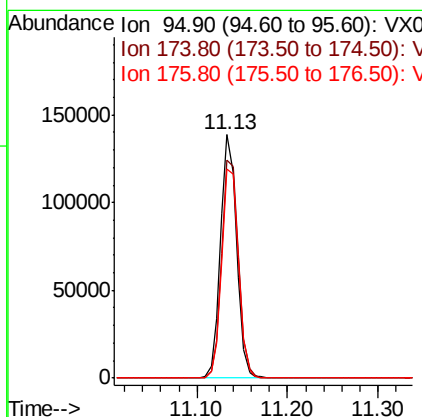
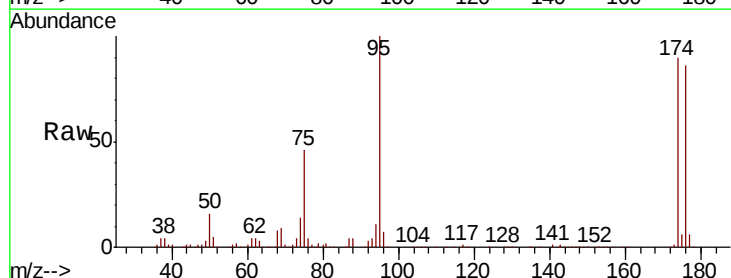
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0313MBL01

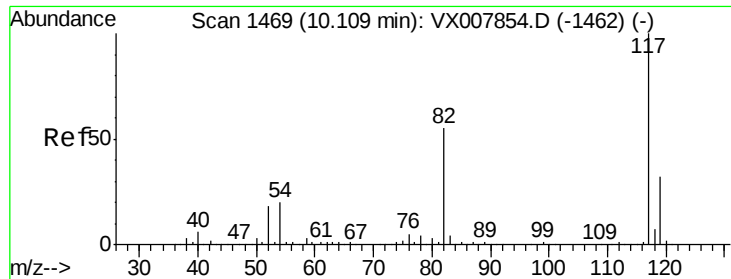
Tgt Ion: 98 Resp: 468077  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.7 77.5



#62  
4-Bromofluorobenzene  
Concen: 54.348 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008037.D  
Acq: 13 Mar 2019 09:51

Tgt Ion: 95 Resp: 172795  
Ion Ratio Lower Upper  
95 100  
174 93.9 0.0 182.8  
176 89.9 0.0 178.0

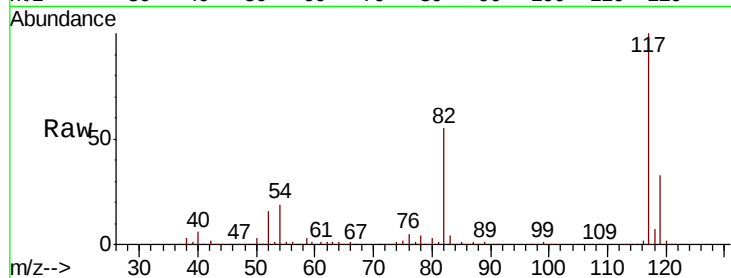




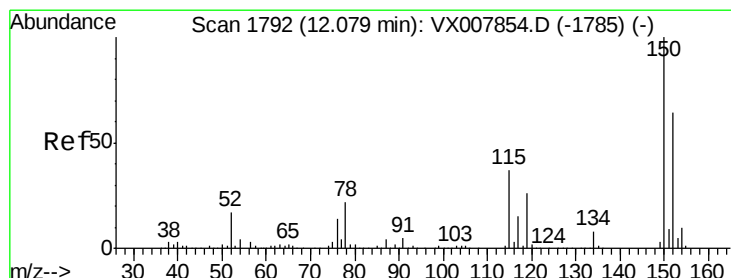
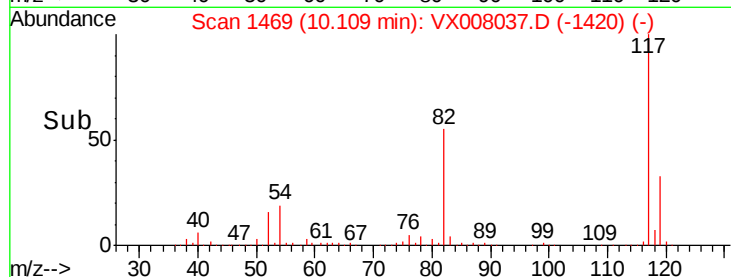
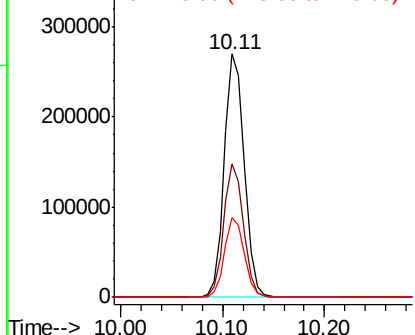
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008037.D  
Acq: 13 Mar 2019 09:51

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0313MBL01

Tgt Ion:117 Resp: 367141  
Ion Ratio Lower Upper  
117 100  
82 54.6 44.3 66.5  
119 32.9 25.3 37.9

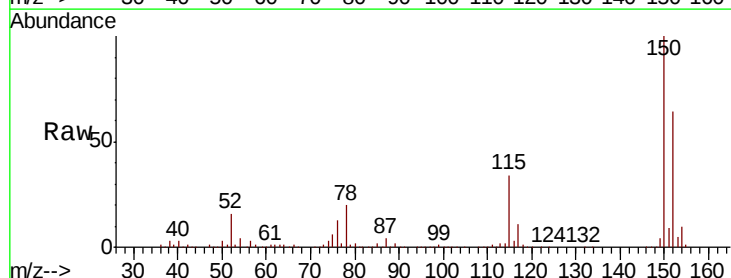


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

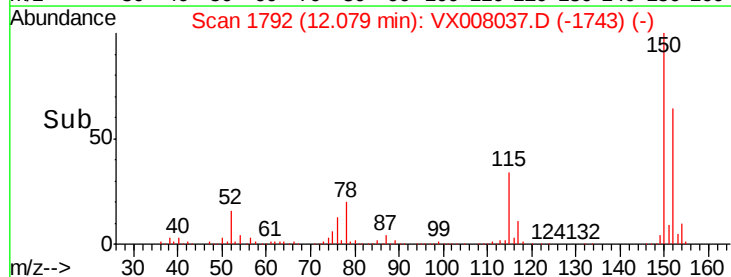
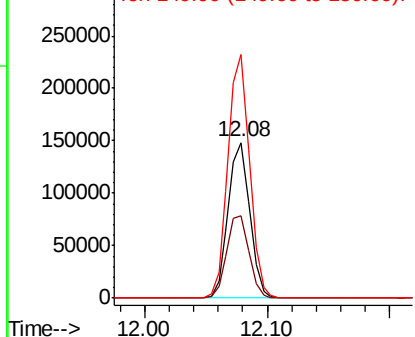


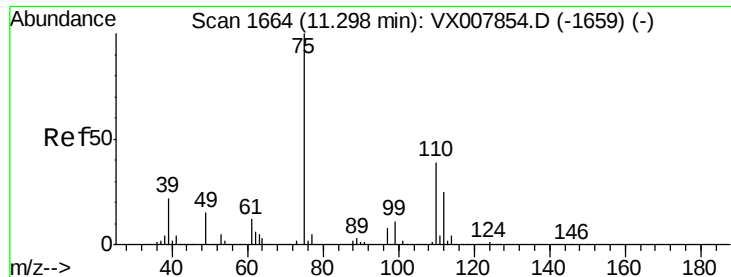
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX008037.D  
Acq: 13 Mar 2019 09:51

Tgt Ion:152 Resp: 180707  
Ion Ratio Lower Upper  
152 100  
115 54.7 38.6 115.7  
150 156.7 0.0 348.4



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





#76

1,2,3-Trichloropropane

Concen: 20.888 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

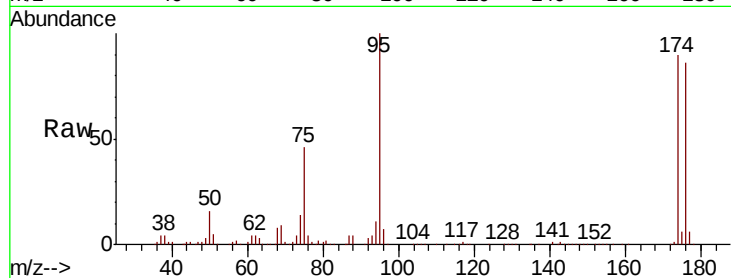
VX0313MBL01

Tgt Ion: 75 Resp: 79208

Ion Ratio Lower Upper

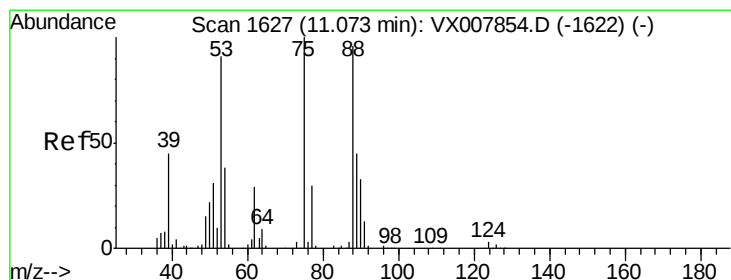
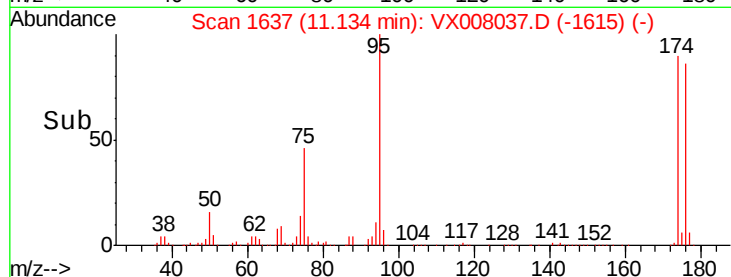
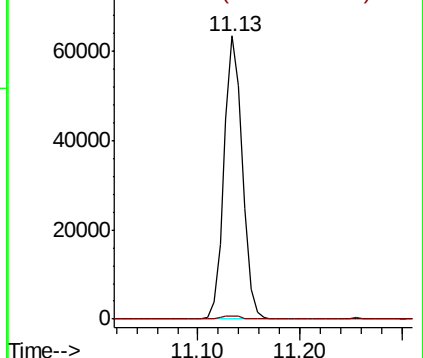
75 100

77 1.3 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.769 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

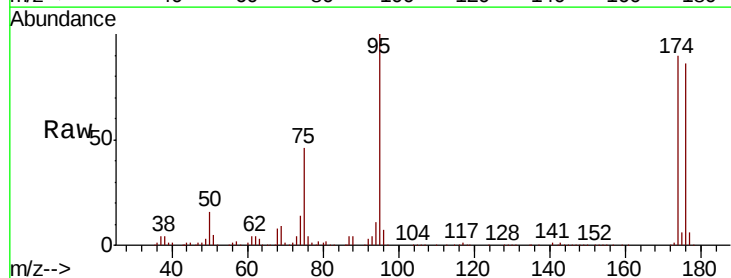
Tgt Ion: 75 Resp: 79208

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

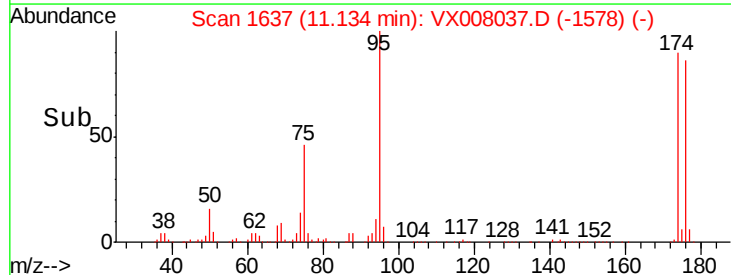
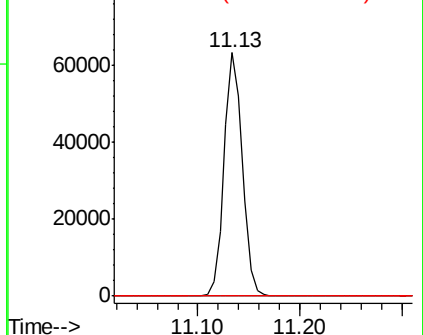
89 0.0 36.3 54.5#

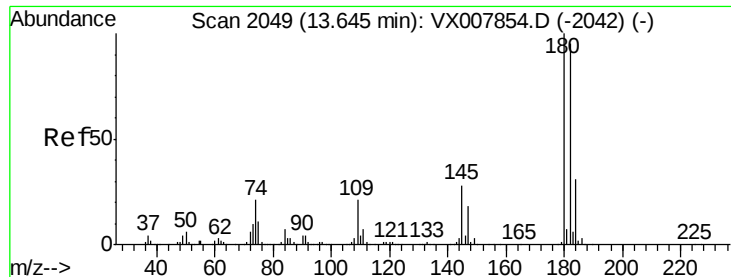


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.200 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX008037.D

Acq: 13 Mar 2019 09:51

Instrument :

MSVOA\_X

ClientSampleId :

VX0313MBL01

Tgt Ion:180 Resp: 828

Ion Ratio Lower Upper

180 100

182 104.2 47.9 143.7

145 33.1 14.1 42.4

