

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\  
 Data File : VX009327.D  
 Acq On : 03 May 2019 22:07  
 Operator : JC/SP  
 Sample : K2687-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS052MW354-190502

Quant Time: May 04 00:46:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 30 07:03:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 194984   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 315445   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 270262   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 112563   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 129900   | 48.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.60% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 95711    | 48.27 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.54% |          |
| 50) Toluene-d8              | 8.71  | 98   | 391775   | 48.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.88% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 126087   | 43.34 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.68% |          |

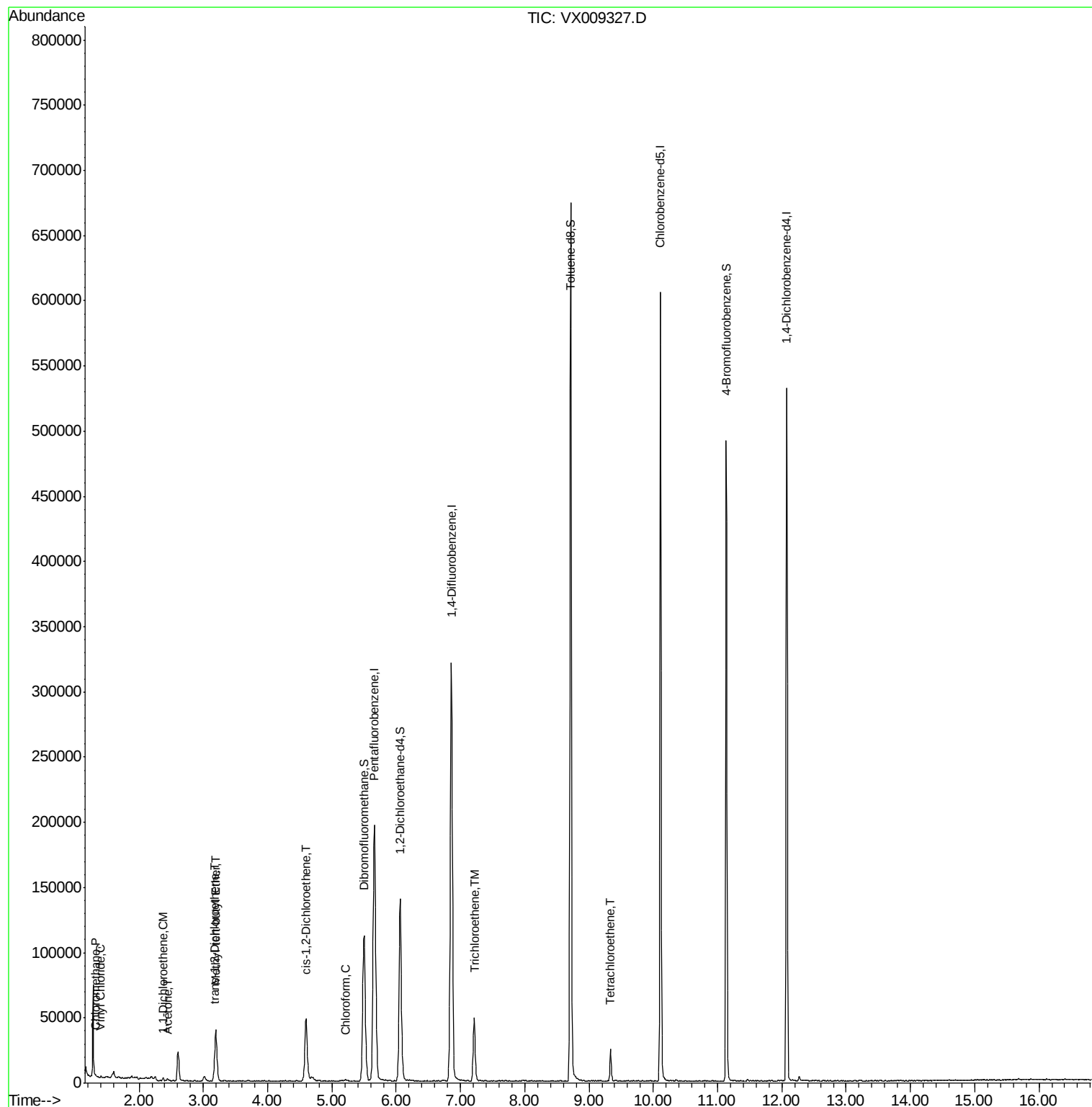
| Target Compounds             | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|------------------------------|------|------|----------|--------|--------|--------|
| 3) Chloromethane             | 1.32 | 50   | 944      | 0.385  | ug/l   | 98     |
| 4) Vinyl Chloride            | 1.41 | 62   | 854      | 0.357  | ug/l # | 83     |
| 12) 1,1-Dichloroethene       | 2.37 | 96   | 638      | 0.349  | ug/l   | 89     |
| 16) Acetone                  | 2.44 | 43   | 2053     | 1.436  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether  | 3.20 | 73   | 42324    | 5.957  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene | 3.17 | 96   | 641      | 0.323  | ug/l # | 74     |
| 27) cis-1,2-Dichloroethene   | 4.60 | 96   | 29814    | 12.589 | ug/l   | 89     |
| 30) Chloroform               | 5.21 | 83   | 1187     | 0.310  | ug/l   | 97     |
| 44) Trichloroethene          | 7.21 | 130  | 18764    | 8.555  | ug/l   | 95     |
| 64) Tetrachloroethene        | 9.34 | 164  | 4842     | 2.612  | ug/l   | 93     |

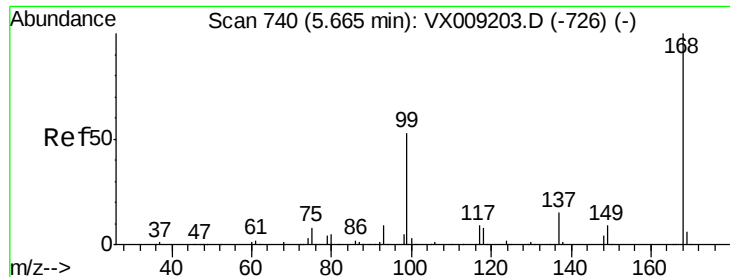
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050319\  
Data File : VX009327.D  
Acq On : 03 May 2019 22:07  
Operator : JC/SP  
Sample : K2687-07  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS052MW354-190502

Quant Time: May 04 00:46:44 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 30 07:03:50 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: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

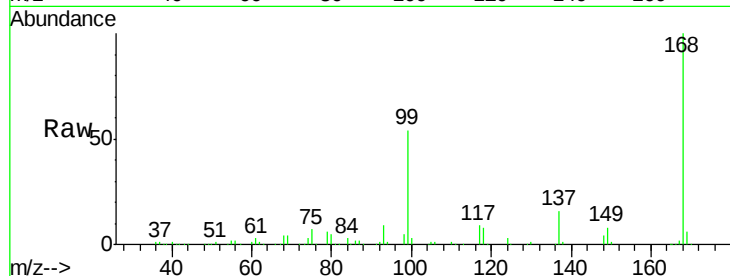
SS052MW354-190502

Tot Ion:168 Resp: 194984

Ion Ratio Lower Upper

168 100

99 54.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

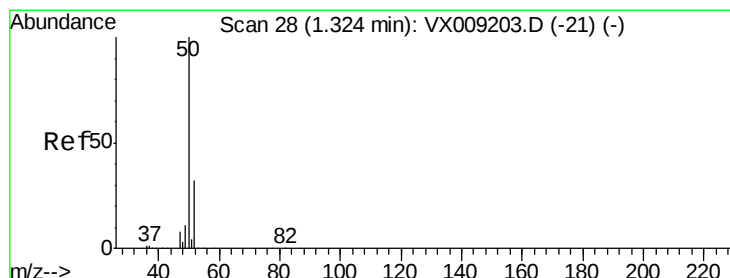
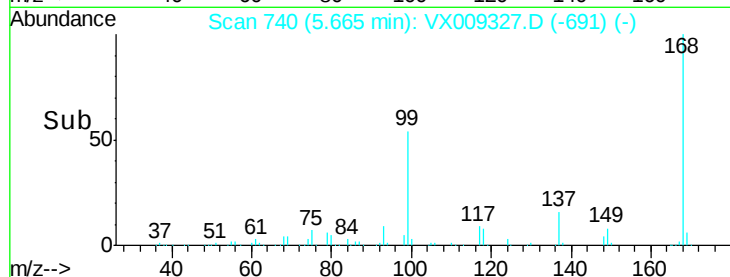
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.385 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009327.D

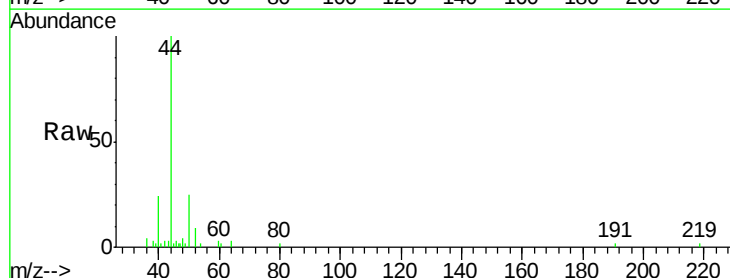
Acq: 03 May 2019 22:07

Tgt Ion: 50 Resp: 944

Ion Ratio Lower Upper

50 100

52 33.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

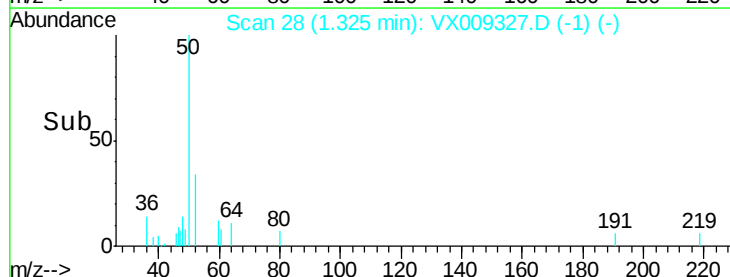
600

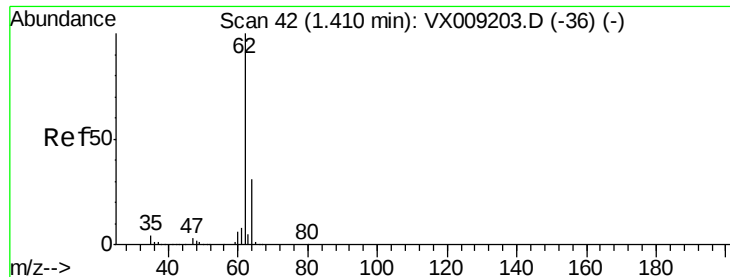
400

200

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.357 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

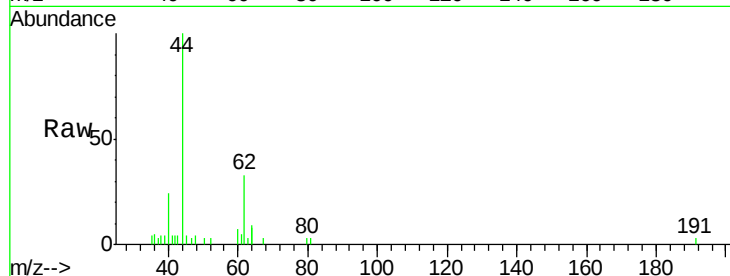
SS052MW354-190502

Tot Ion: 62 Resp: 854

Ion Ratio Lower Upper

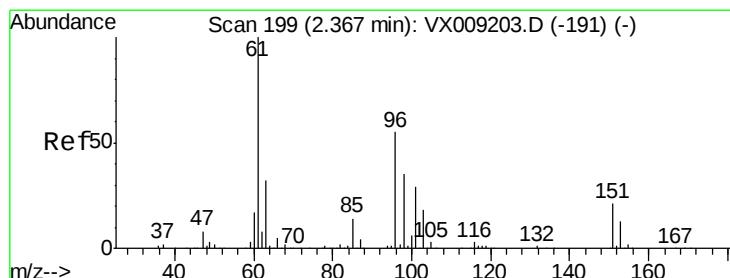
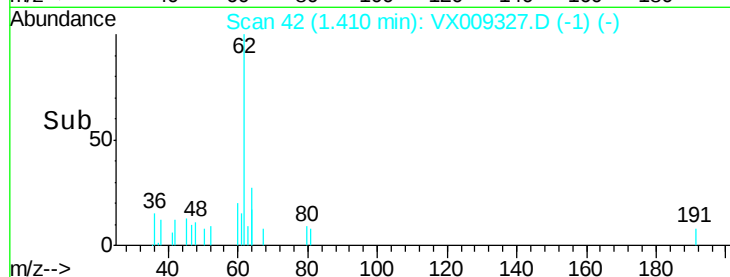
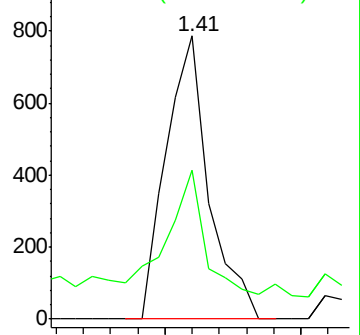
62 100

64 40.2 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#12

1,1-Dichloroethene

Concen: 0.349 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

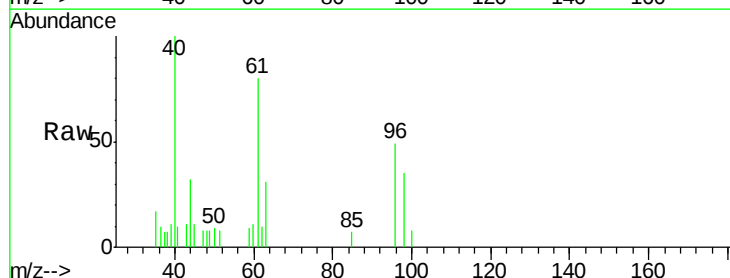
Tgt Ion: 96 Resp: 638

Ion Ratio Lower Upper

96 100

61 164.0 144.3 216.5

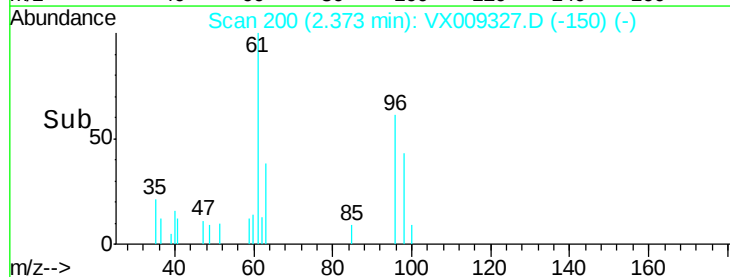
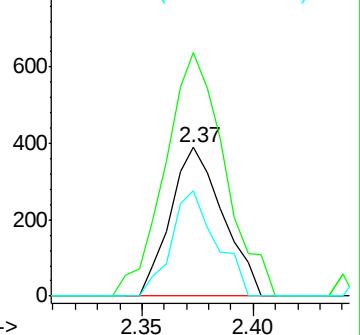
98 71.0 50.3 75.5

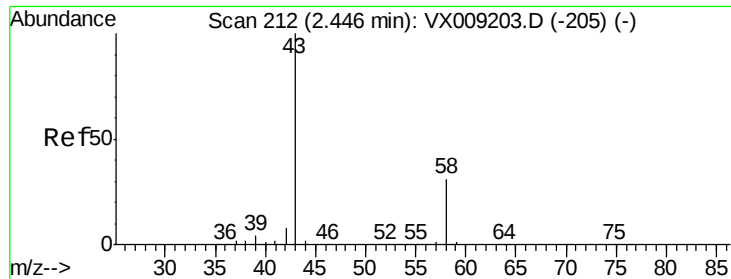


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#16

Acetone

Concen: 1.436 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

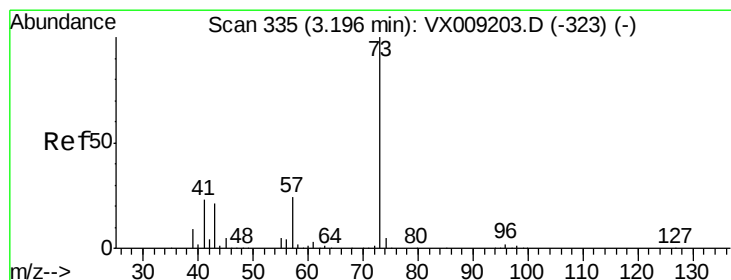
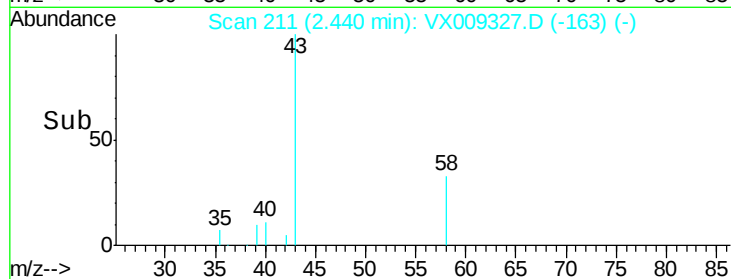
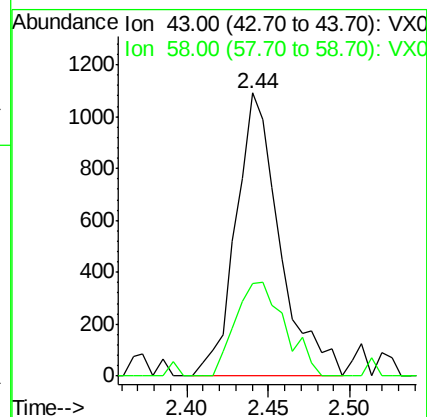
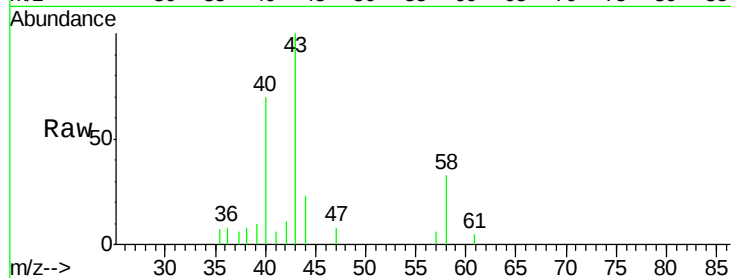
SS052MW354-190502

Tot Ion: 43 Resp: 2053

Ion Ratio Lower Upper

43 100

58 32.5 24.9 37.3



#19

Methyl tert-butyl Ether

Concen: 5.957 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.00 min

Lab File: VX009327.D

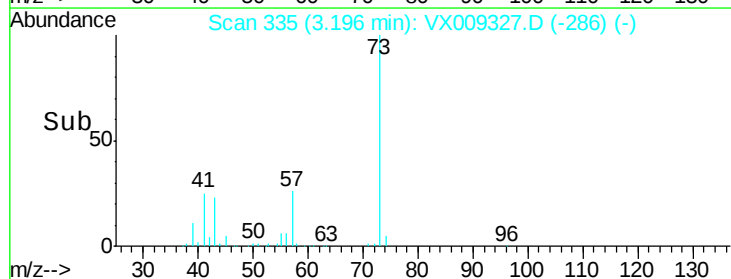
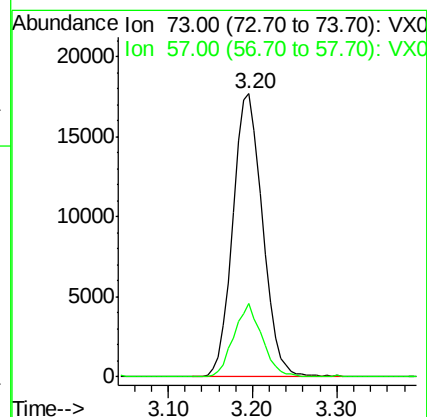
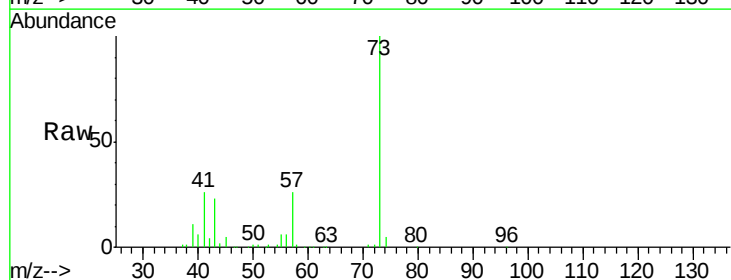
Acq: 03 May 2019 22:07

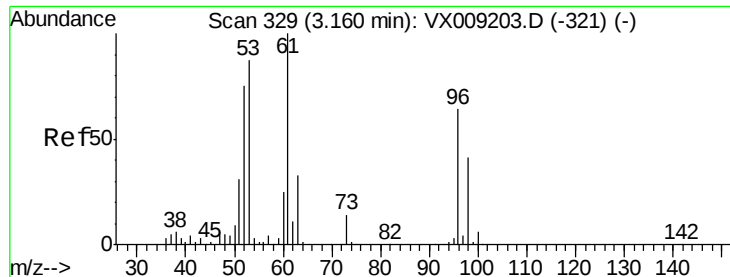
Tgt Ion: 73 Resp: 42324

Ion Ratio Lower Upper

73 100

57 25.9 19.3 28.9





#21

trans-1,2-Dichloroethene

Concen: 0.323 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW354-190502

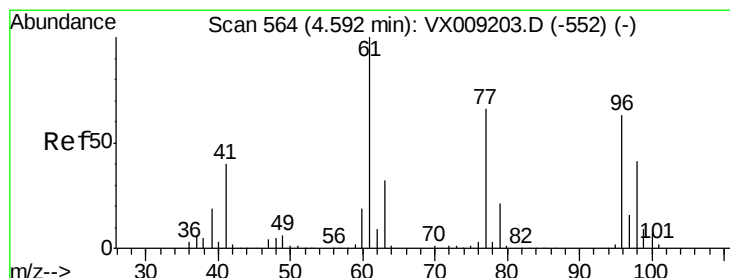
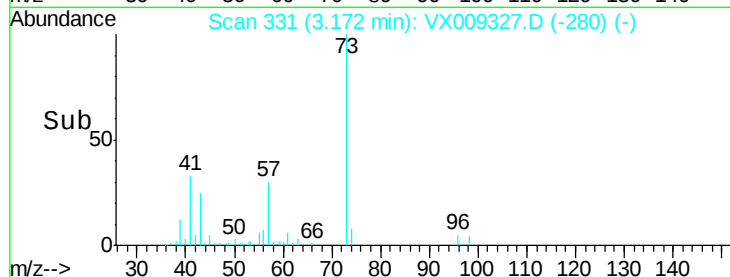
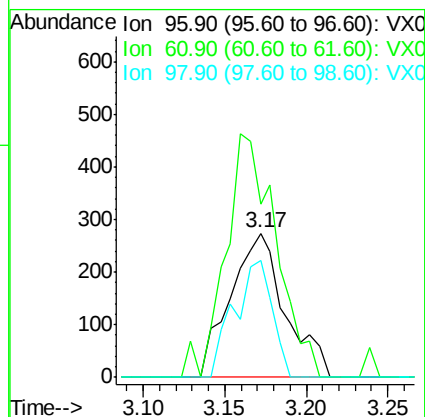
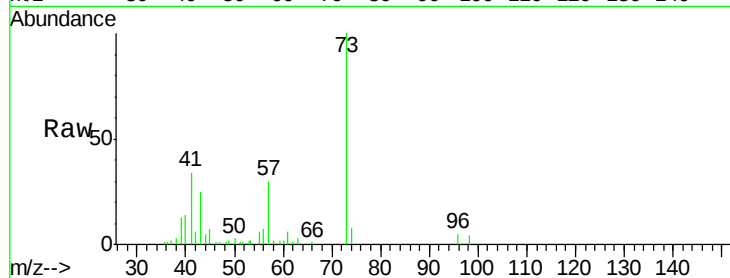
Tot Ion: 96 Resp: 641

Ion Ratio Lower Upper

96 100

61 120.1 124.5 186.7#

98 81.4 50.4 75.6#



#27

cis-1,2-Dichloroethene

Concen: 12.589 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

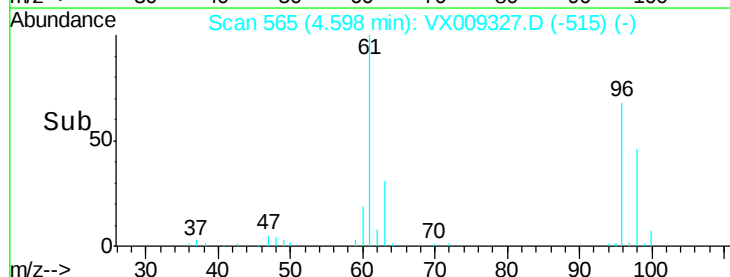
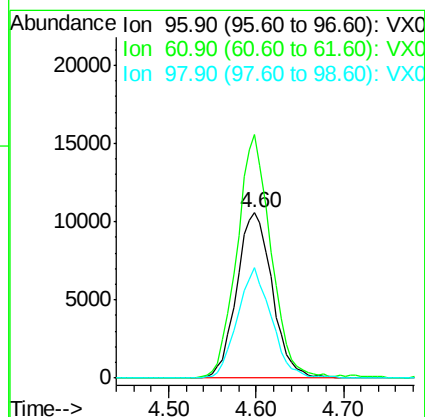
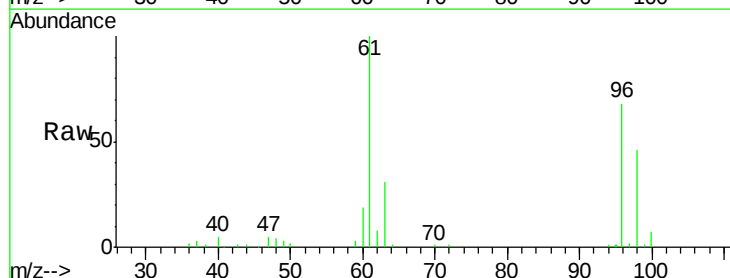
Tgt Ion: 96 Resp: 29814

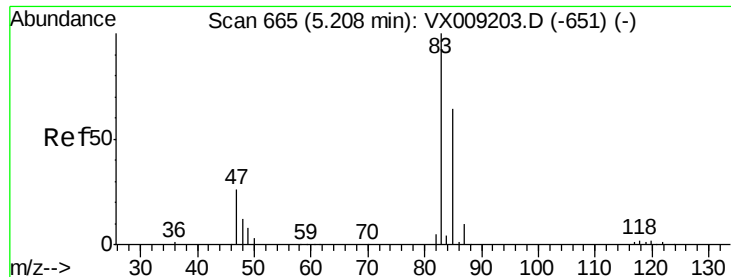
Ion Ratio Lower Upper

96 100

61 141.5 0.0 324.0

98 64.2 0.0 130.4

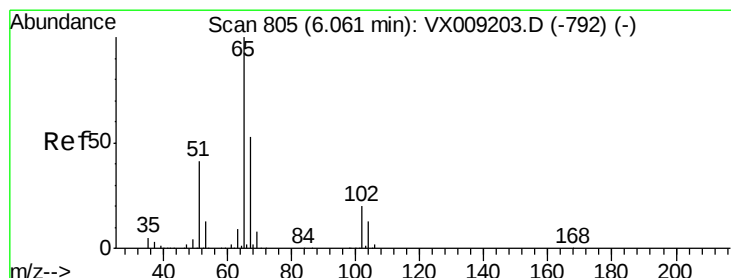
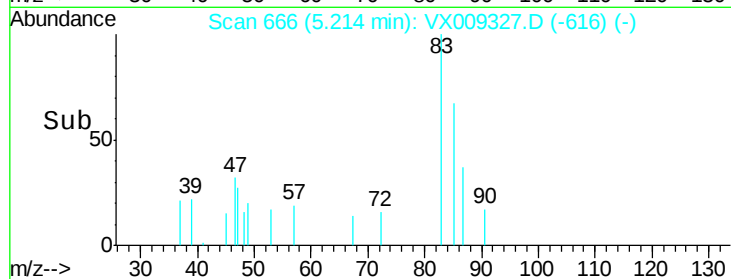
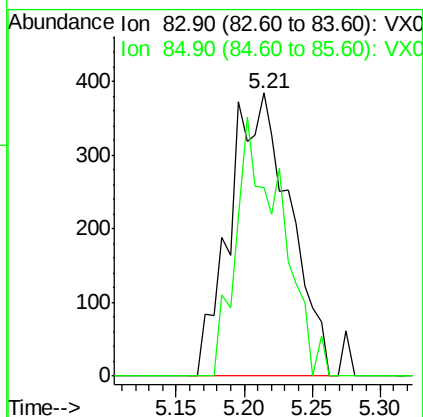
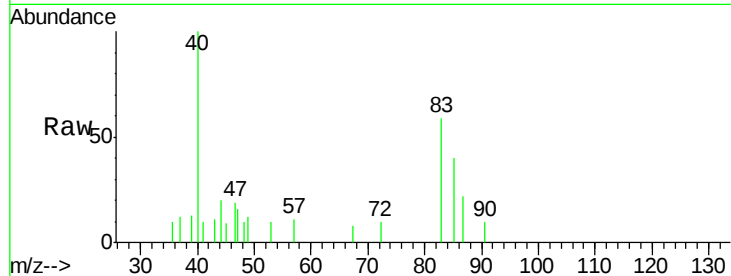




#30  
Chloroform  
Concen: 0.310 ug/l  
RT: 5.21 min Scan# 666  
Delta R.T. 0.01 min  
Lab File: VX009327.D  
Acq: 03 May 2019 22:07

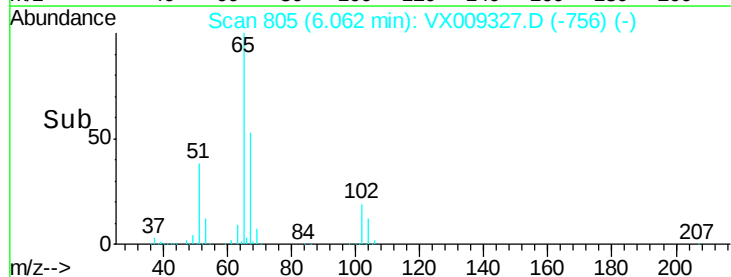
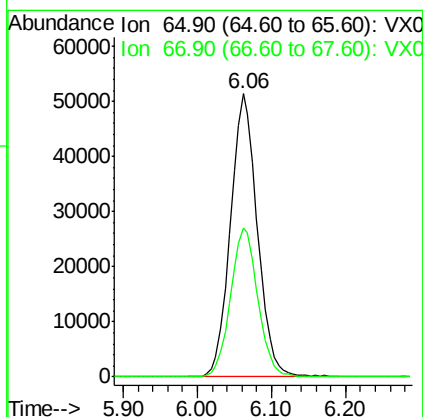
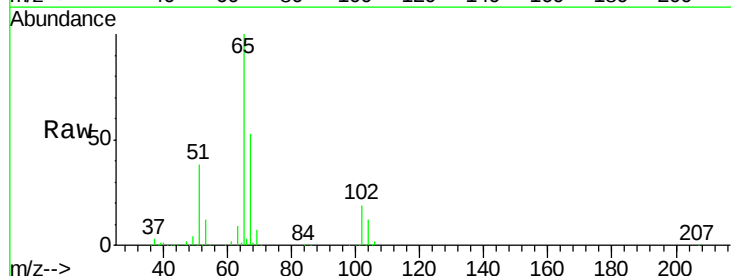
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS052MW354-190502

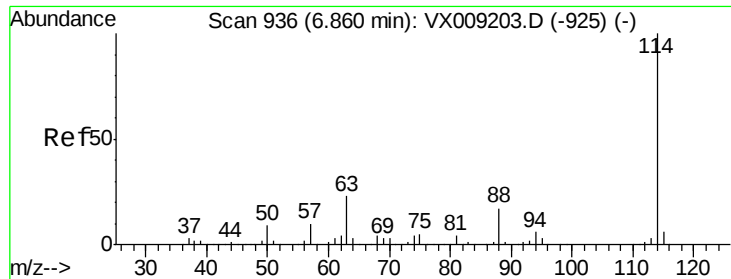
Tot Ion: 83 Resp: 1187  
Ion Ratio Lower Upper  
83 100  
85 66.7 51.5 77.3



#33  
1,2-Dichloroethane-d4  
Concen: 48.802 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX009327.D  
Acq: 03 May 2019 22:07

Tgt Ion: 65 Resp: 129900  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 106.6

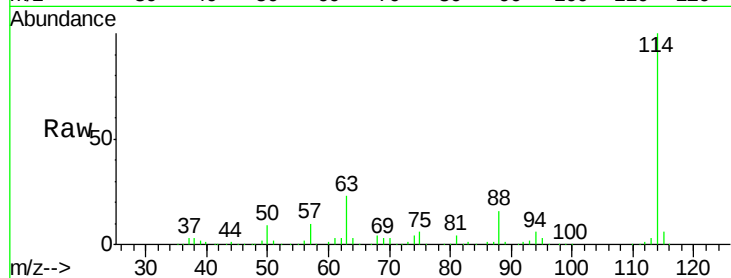




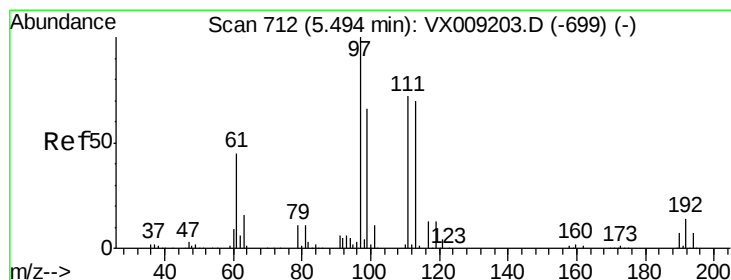
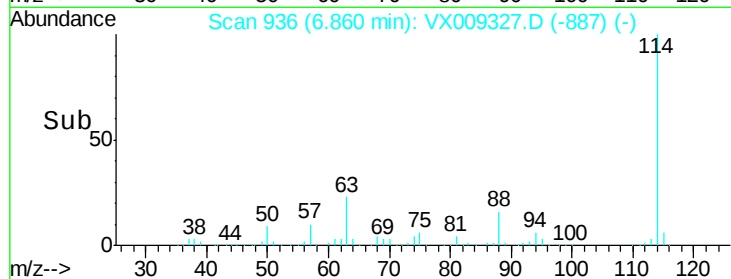
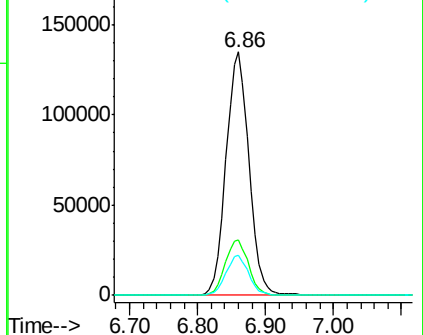
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009327.D  
 Acq: 03 May 2019 22:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS052MW354-190502

Tot Ion:114 Resp: 315445  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 45.6  
 88 16.3 0.0 33.2

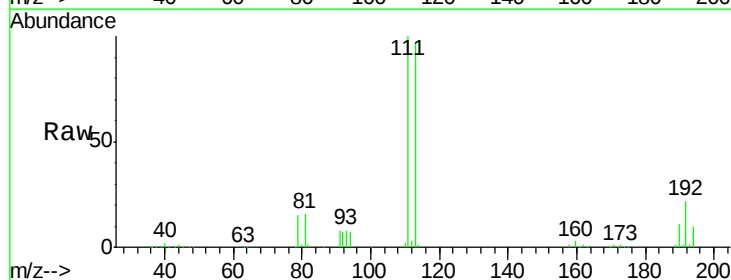


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

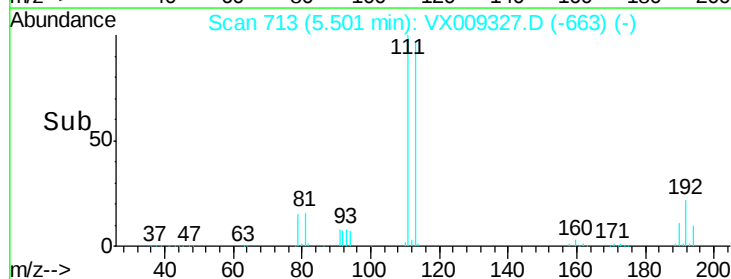
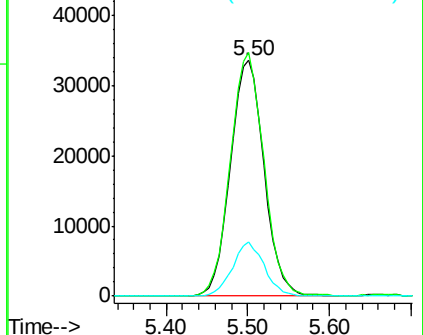


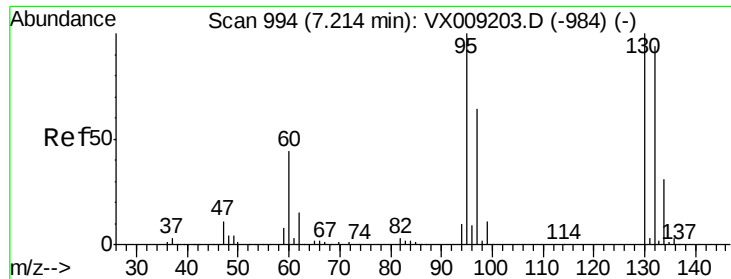
#35  
 Dibromofluoromethane  
 Concen: 48.265 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009327.D  
 Acq: 03 May 2019 22:07

Tgt Ion:113 Resp: 95711  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 82.8 124.2  
 192 21.7 17.0 25.6



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

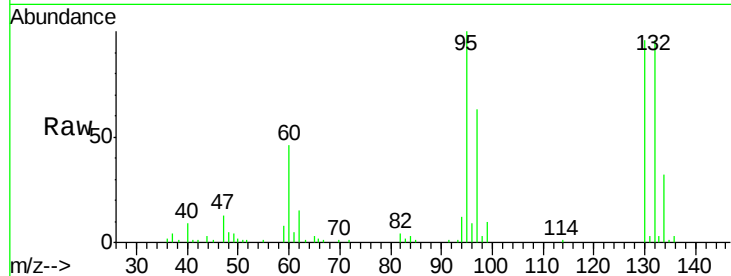




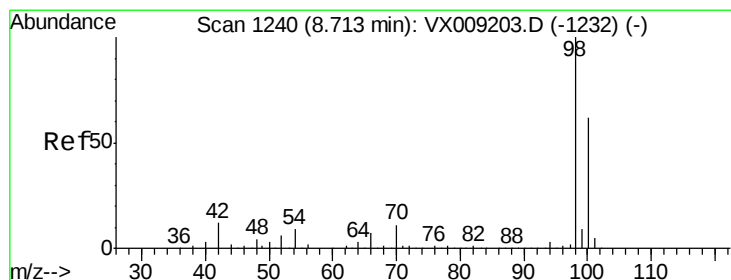
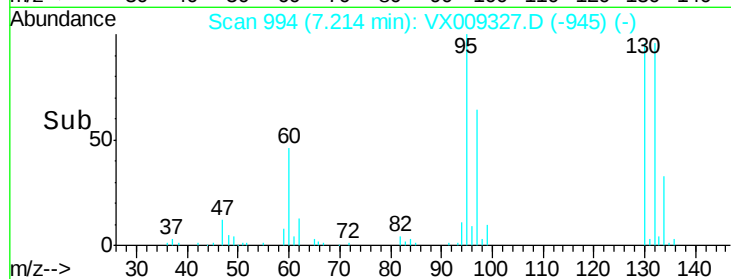
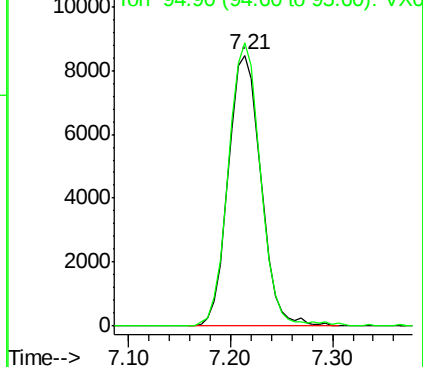
#44  
 Trichloroethene  
 Concen: 8.555 ug/l  
 RT: 7.21 min Scan# 994  
 Delta R.T. 0.00 min  
 Lab File: VX009327.D  
 Acq: 03 May 2019 22:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS052MW354-190502

Tot Ion:130 Resp: 18764  
 Ion Ratio Lower Upper  
 130 100  
 95 104.6 0.0 199.2

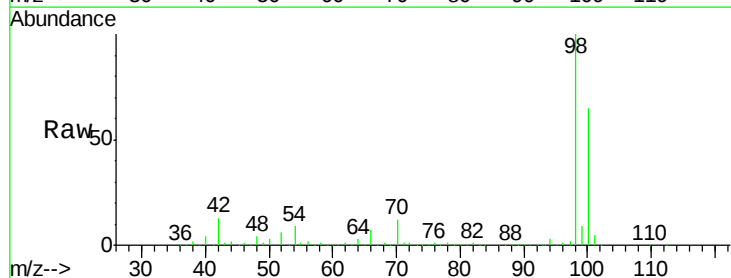


Abundance Ion 129.80 (129.50 to 130.50): V  
 Ion 94.90 (94.60 to 95.60): VX0

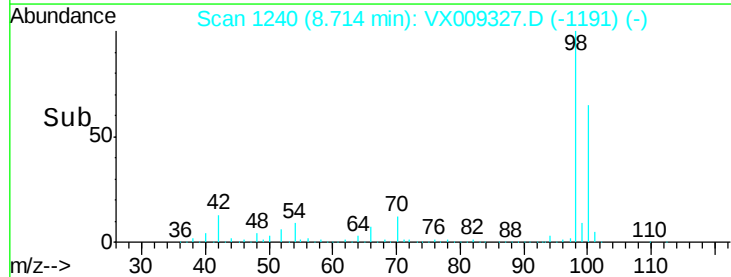
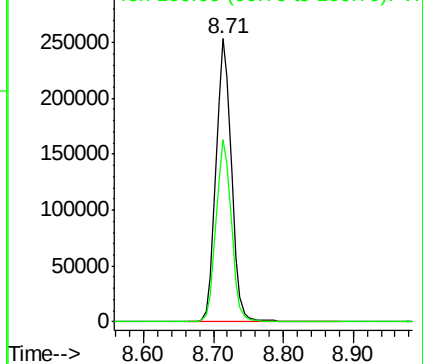


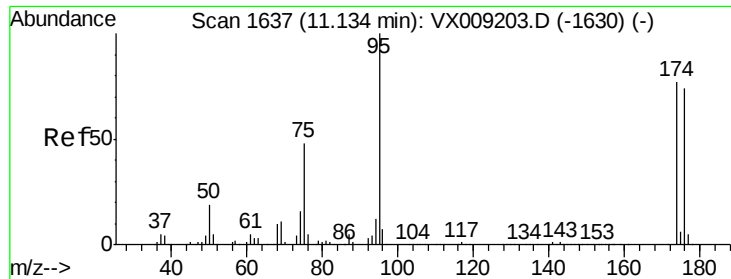
#50  
 Toluene-d8  
 Concen: 48.936 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. 0.00 min  
 Lab File: VX009327.D  
 Acq: 03 May 2019 22:07

Tgt Ion: 98 Resp: 391775  
 Ion Ratio Lower Upper  
 98 100  
 100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0  
 Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.343 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW354-190502

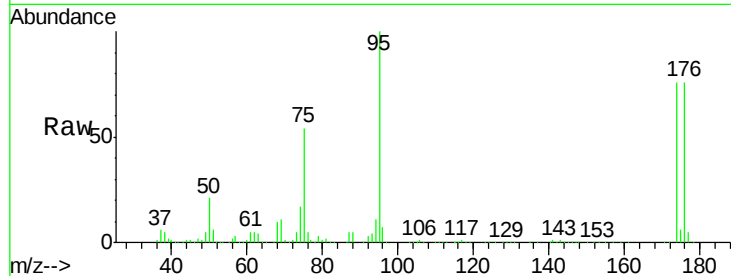
Tot Ion: 95 Resp: 126087

Ion Ratio Lower Upper

95 100

174 81.6 0.0 161.6

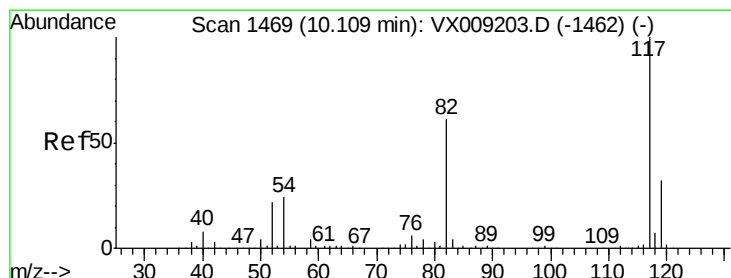
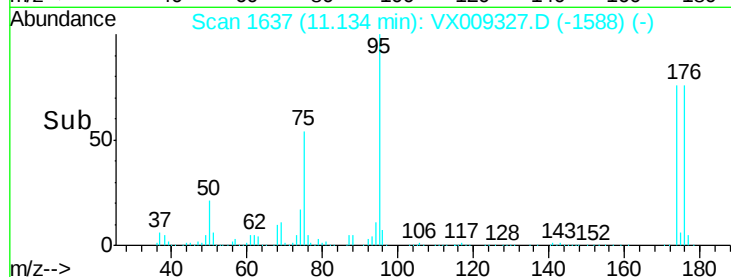
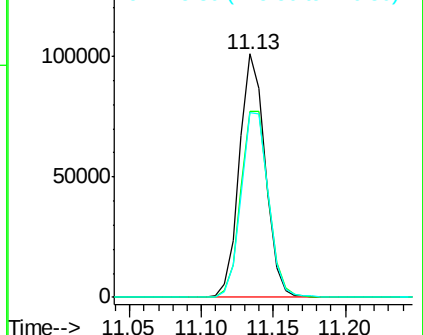
176 80.1 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009327.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009327.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009327.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

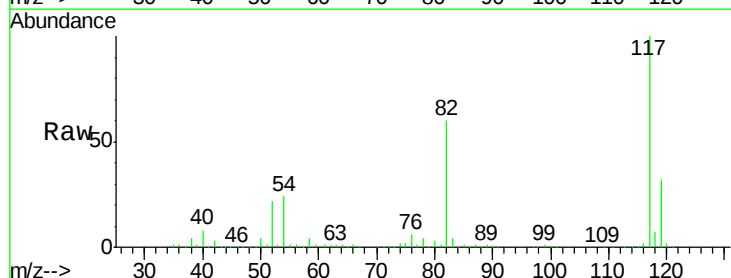
Tgt Ion: 117 Resp: 270262

Ion Ratio Lower Upper

117 100

82 59.8 48.8 73.2

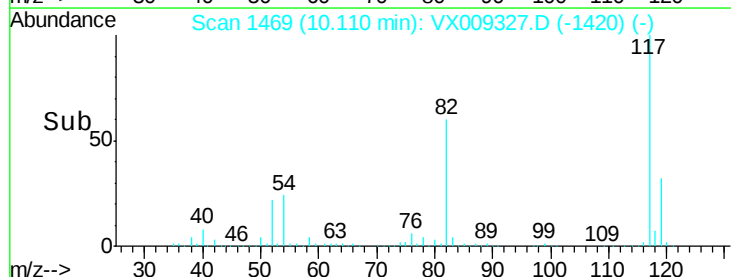
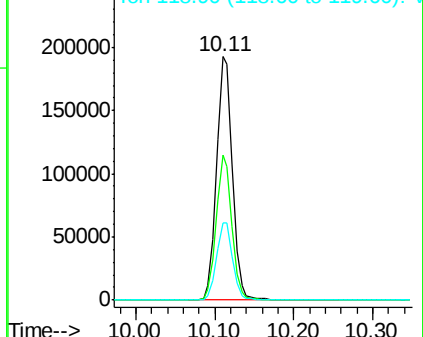
119 31.6 25.8 38.6

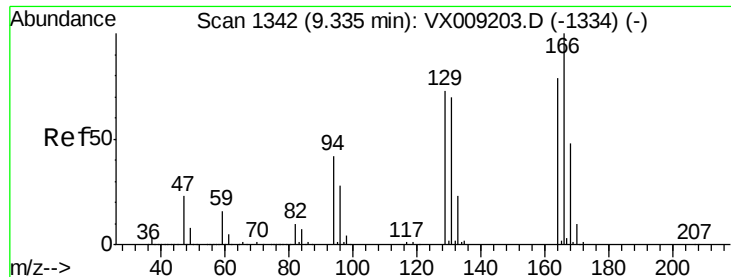


Abundance Ion 116.90 (116.60 to 117.60): VX009327.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009327.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009327.D (-1420) (-)





#64

Tetrachloroethene

Concen: 2.612 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW354-190502

Tot Ion:164 Resp: 4842

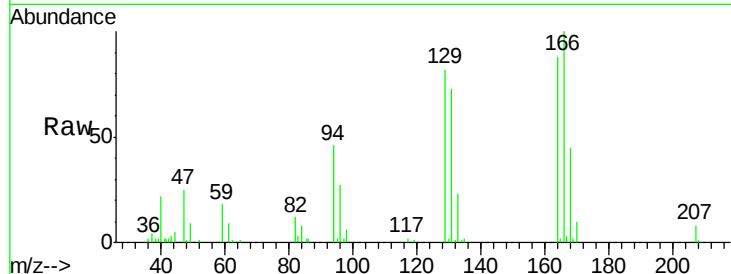
Ion Ratio Lower Upper

164 100

166 113.7 101.2 151.8

129 93.8 74.3 111.5

131 83.4 71.0 106.6



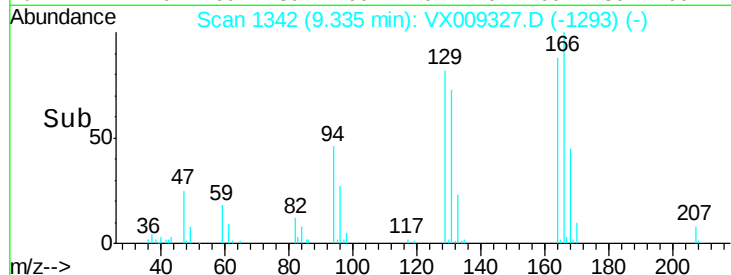
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

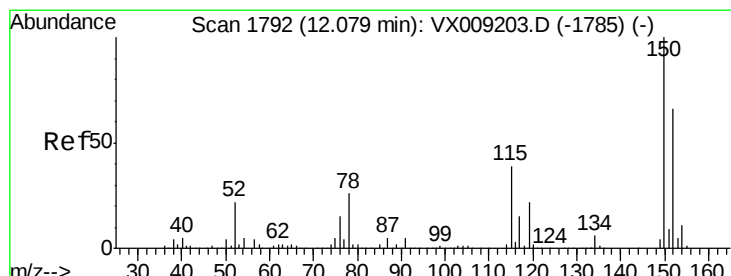
Ion 130.80 (130.50 to 131.50): V

Time-->



Abundance

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

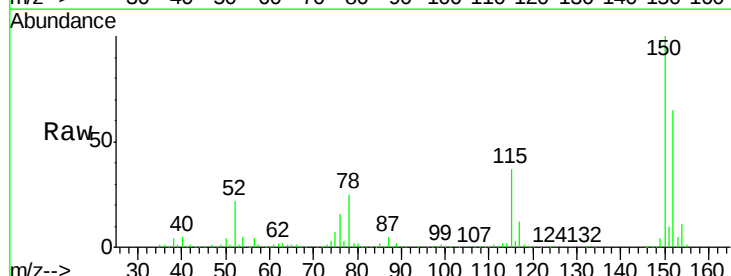
Tgt Ion:152 Resp: 112563

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

150 154.7 0.0 346.4

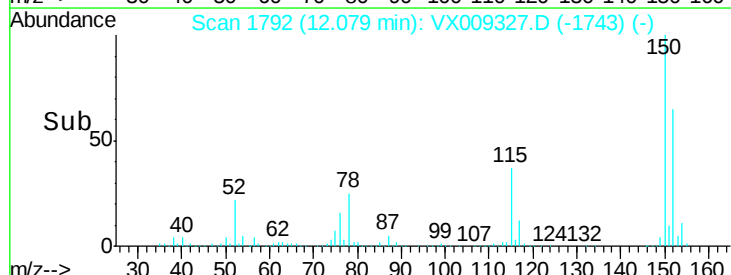


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->



Abundance

Time-->