

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\  
 Data File : VX009377.D  
 Acq On : 07 May 2019 15:20  
 Operator : JC/SP  
 Sample : K2721-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-190506

Quant Time: May 08 02:15:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 08:24:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 188520   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 298677   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 264561   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 115698   | 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   | 123111   | 47.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.68% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 92017    | 49.01 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.02% |          |
| 50) Toluene-d8              | 8.71  | 98   | 376729   | 49.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.40% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 126046   | 45.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.52% |          |

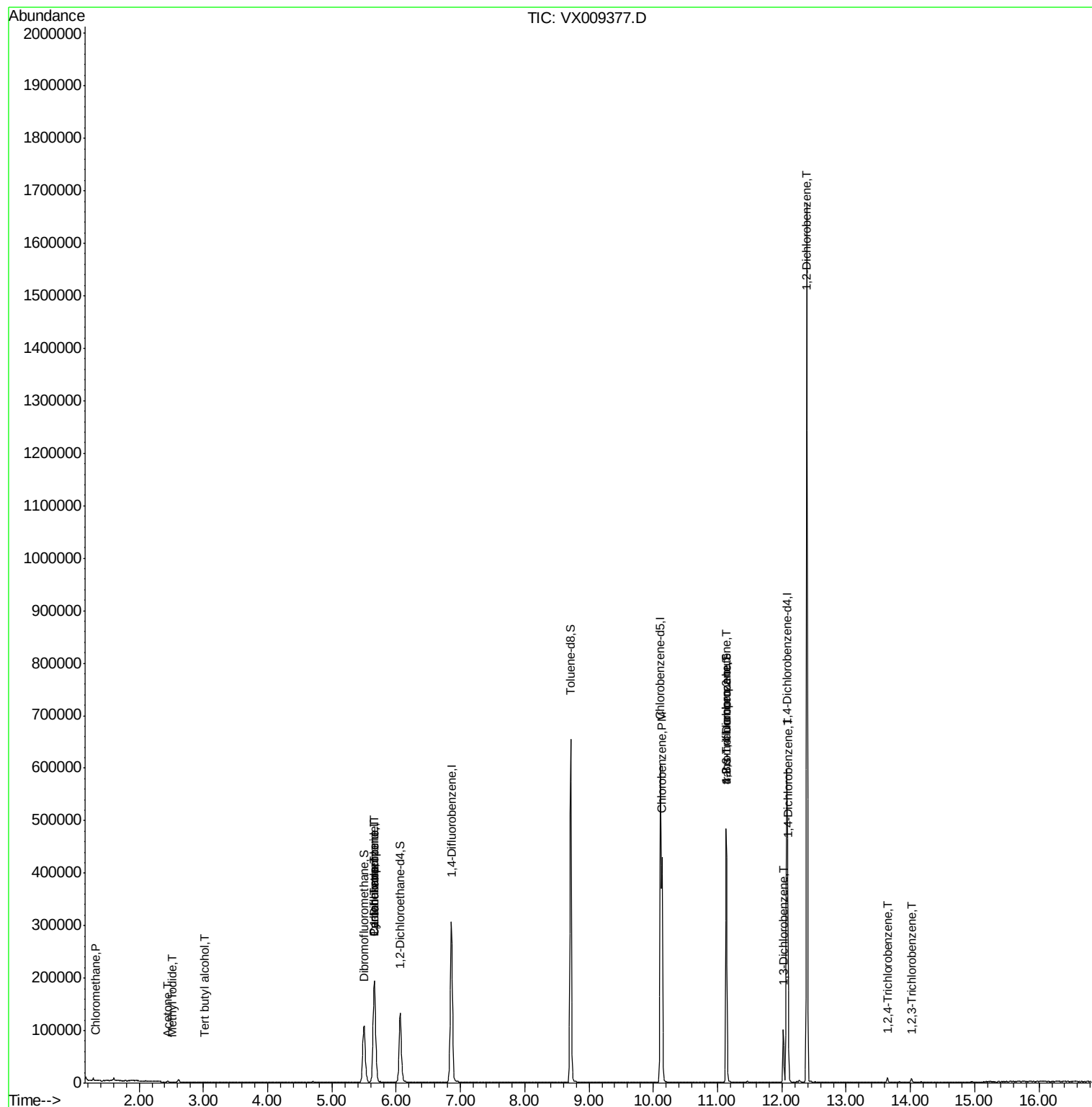
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 489      | 0.206     | ug/l   | 93     |
| 10) Methyl Iodide              | 2.51  | 142  | 316      | 4.734     | ug/l # | 82     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 623      | 1.046     | ug/l # | 82     |
| 16) Acetone                    | 2.44  | 43   | 1025     | 0.742     | ug/l # | 74     |
| 28) Bromochloromethane         | 5.02  | 49   | 188      | Below Cal | #      | 20     |
| 31) Cyclohexane                | 5.65  | 56   | 4158     | 1.093     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14192    | 5.113     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 17504    | 6.941     | ug/l # | 17     |
| 65) Chlorobenzene              | 10.14 | 112  | 175259   | 33.115    | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 63594    | 23.696    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 63594    | 60.629    | ug/l # | 10     |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 30019    | 8.064     | ug/l   | 99     |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 92476    | 24.640    | ug/l   | 99     |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 524200   | 138.249   | ug/l   | 100    |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 2025     | 0.781     | ug/l   | 93     |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 1398     | 0.532     | ug/l   | 94     |

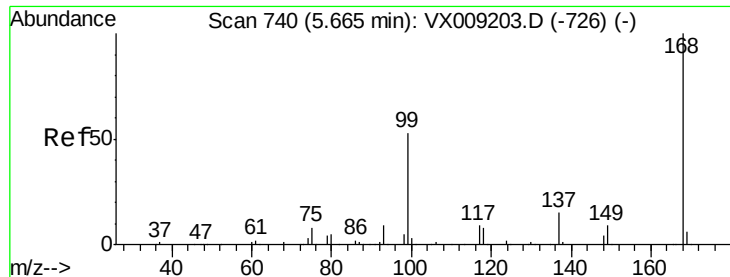
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050719\  
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Sample : K2721-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS003RW114R-190506

Quant Time: May 08 02:15:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 08:24:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009377.D

Acq: 07 May 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

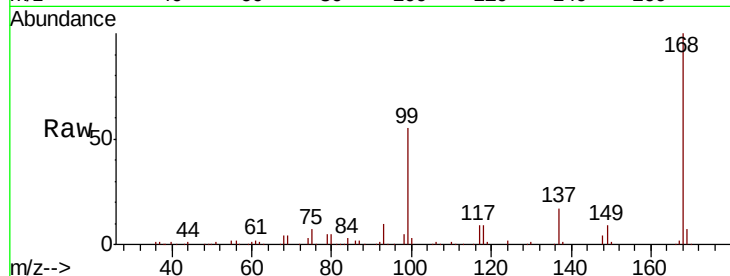
SS003RW114R-190506

Tot Ion:168 Resp: 188520

Ion Ratio Lower Upper

168 100

99 54.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

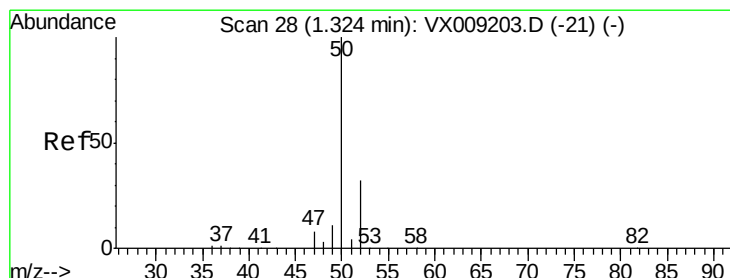
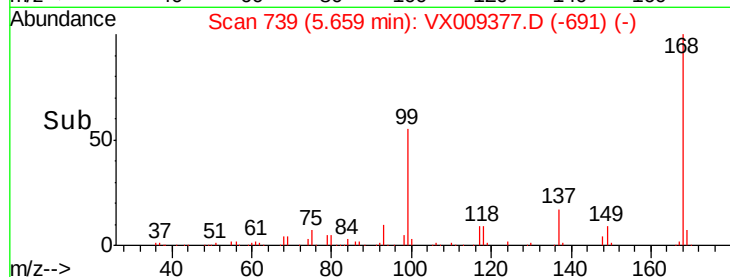
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.206 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009377.D

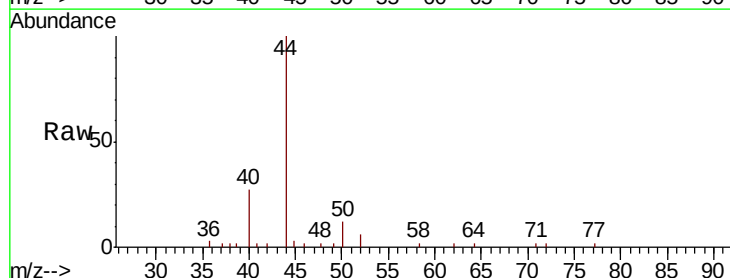
Acq: 07 May 2019 15:20

Tgt Ion: 50 Resp: 489

Ion Ratio Lower Upper

50 100

52 36.2 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

400

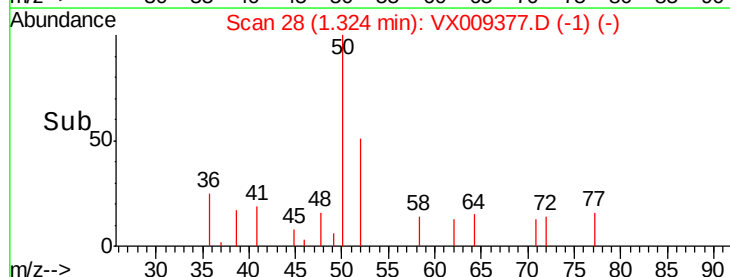
300

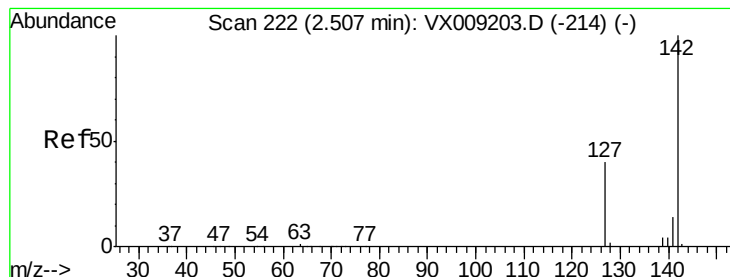
200

100

0

Time--> 1.30 1.35

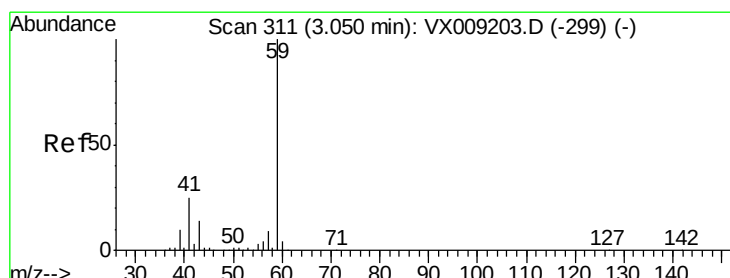
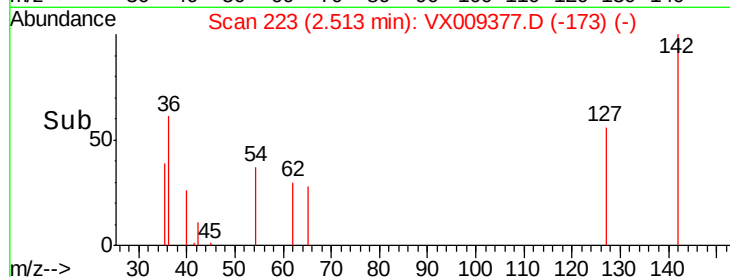
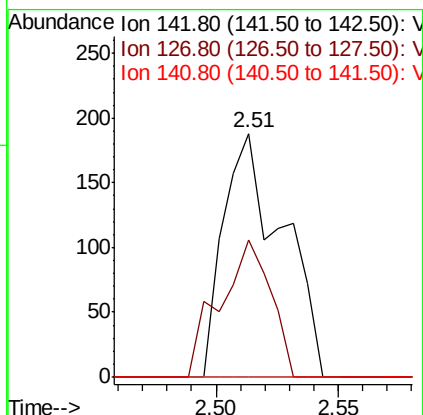
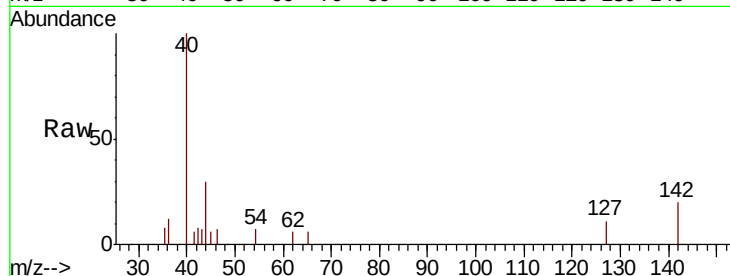




#10  
Methyl Iodide  
Concen: 4.734 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX009377.D  
Acq: 07 May 2019 15:20

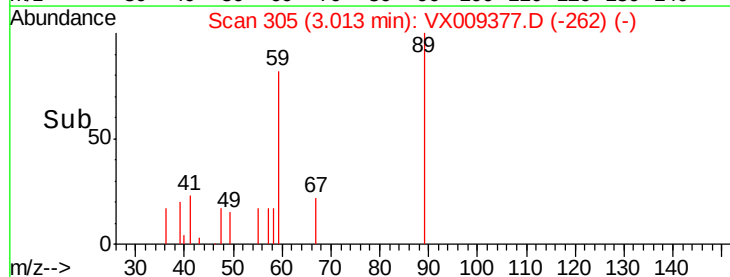
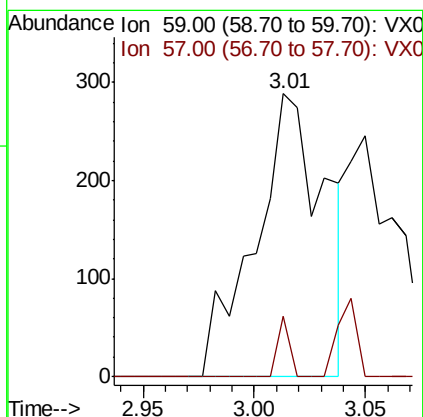
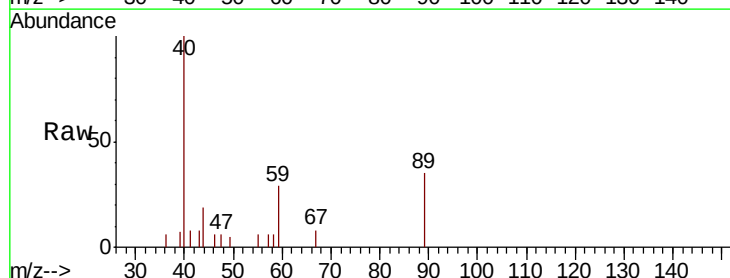
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS003RW114R-190506

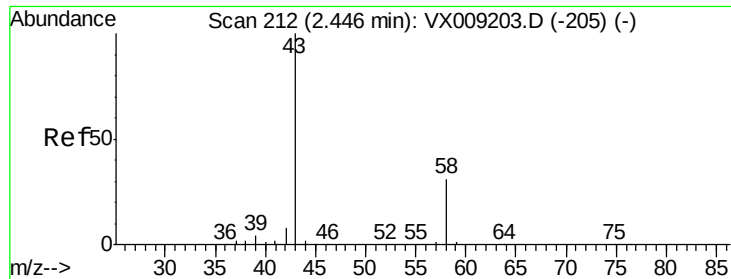
Tot Ion:142 Resp: 316  
Ion Ratio Lower Upper  
142 100  
127 48.1 32.7 49.1  
141 0.0 11.5 17.3#



#11  
Tert butyl alcohol  
Concen: 1.046 ug/l  
RT: 3.01 min Scan# 305  
Delta R.T. -0.04 min  
Lab File: VX009377.D  
Acq: 07 May 2019 15:20

Tgt Ion: 59 Resp: 623  
Ion Ratio Lower Upper  
59 100  
57 3.5 8.2 12.2#





#16

Acetone

Concen: 0.742 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009377.D

Acq: 07 May 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

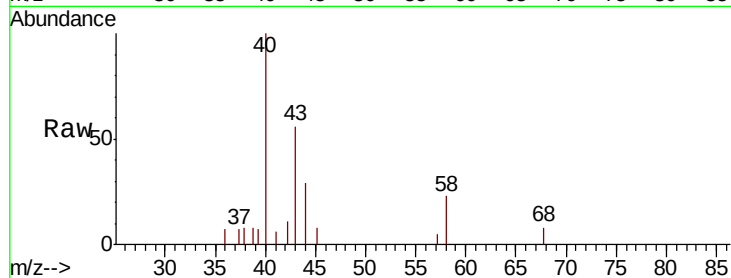
SS003RW114R-190506

Tot Ion: 43 Resp: 1025

Ion Ratio Lower Upper

43 100

58 45.6 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

600

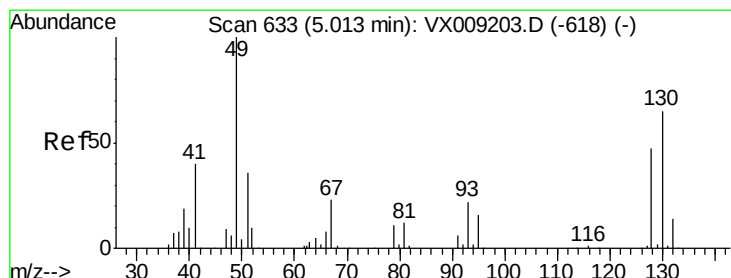
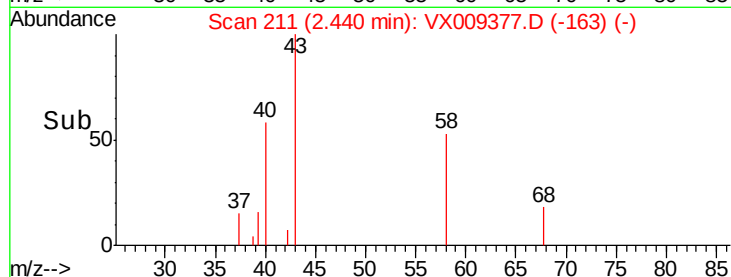
400

200

0

2.40 2.45 2.50

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009377.D

Acq: 07 May 2019 15:20

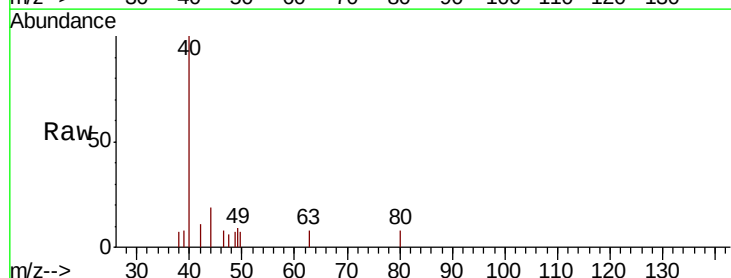
Tgt Ion: 49 Resp: 188

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

150

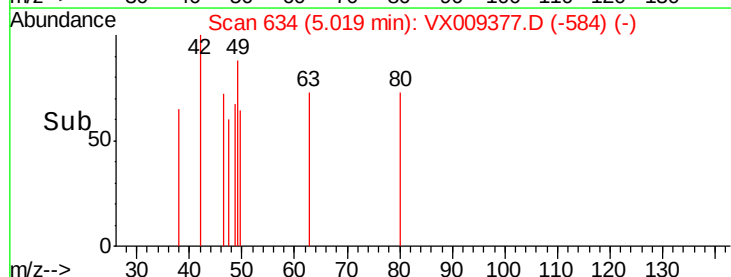
100

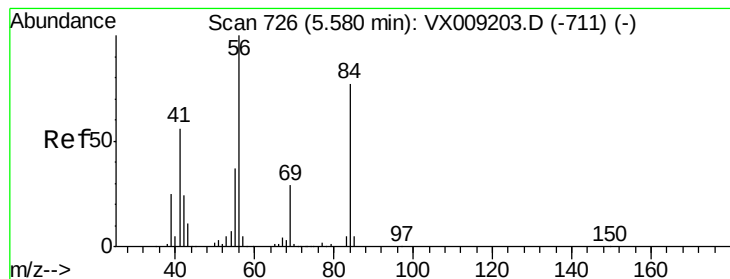
50

0

5.00 5.02 5.04 5.06

Time-->





#31

Cyclohexane

Concen: 1.093 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009377.D

Acq: 07 May 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

SS003RW114R-190506

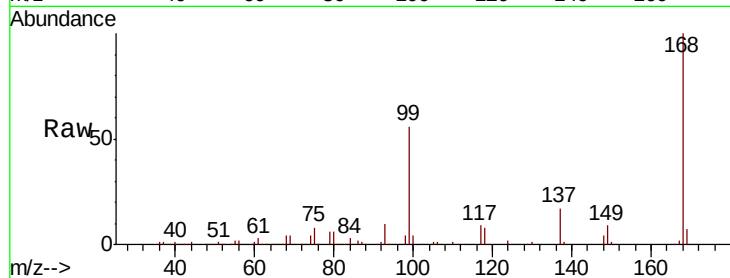
Tot Ion: 56 Resp: 4158

Ion Ratio Lower Upper

56 100

69 164.1 23.4 35.0#

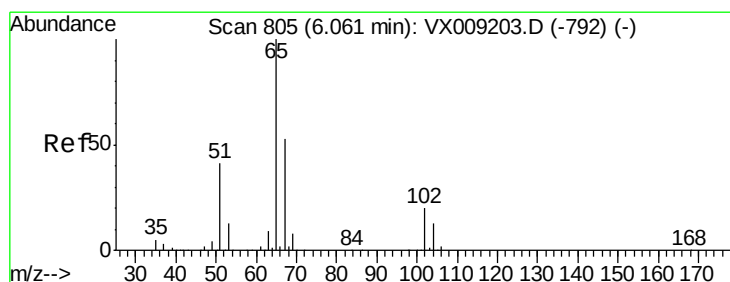
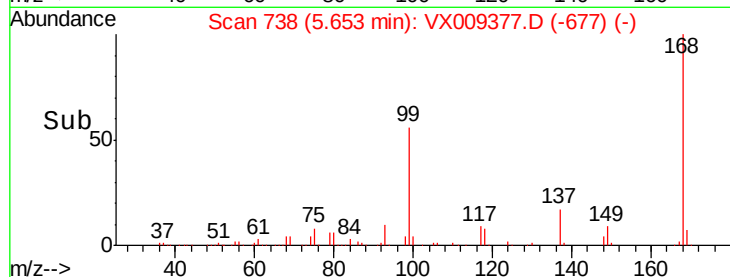
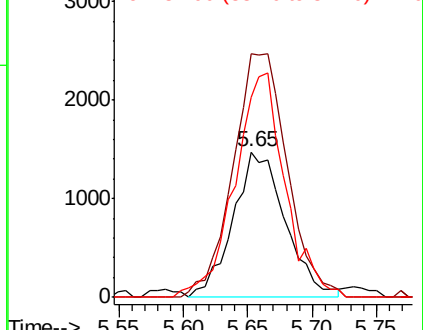
84 132.9 61.9 92.9#



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: 47.838 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009377.D

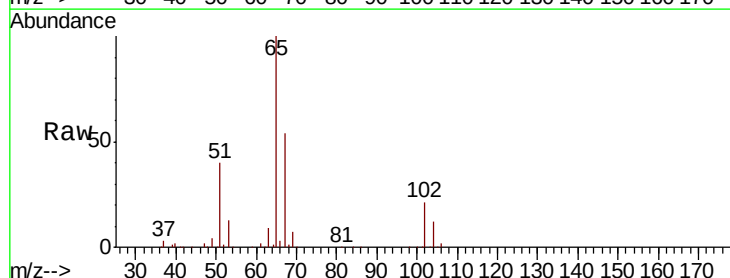
Acq: 07 May 2019 15:20

Tgt Ion: 65 Resp: 123111

Ion Ratio Lower Upper

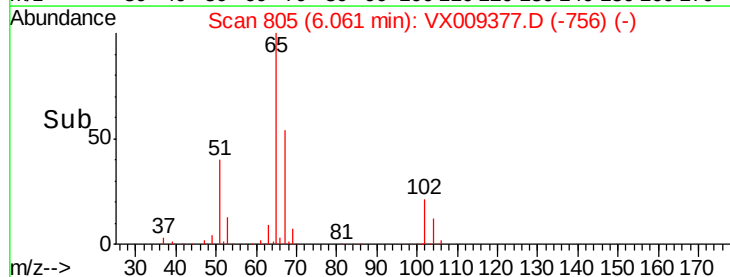
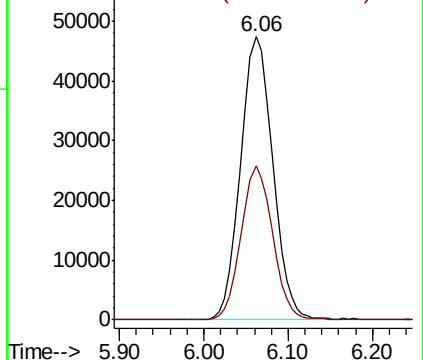
65 100

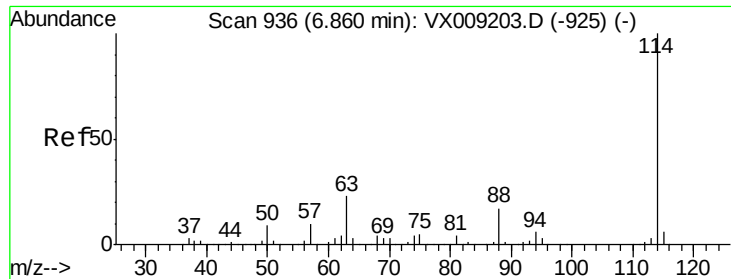
67 53.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

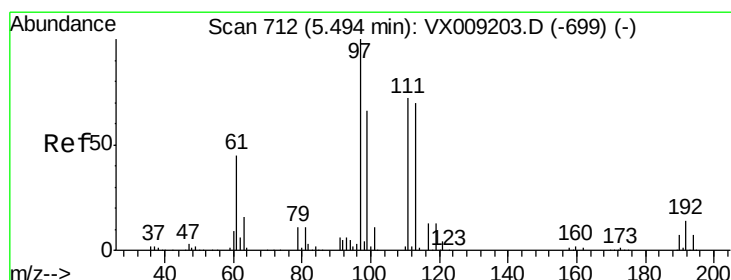
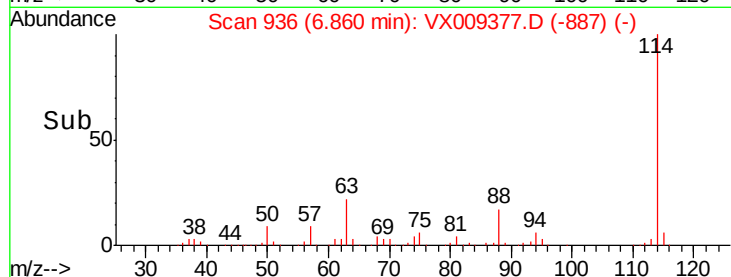
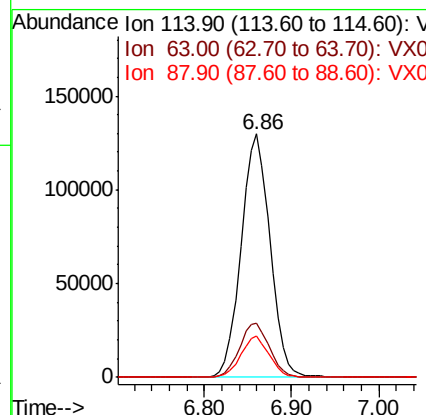
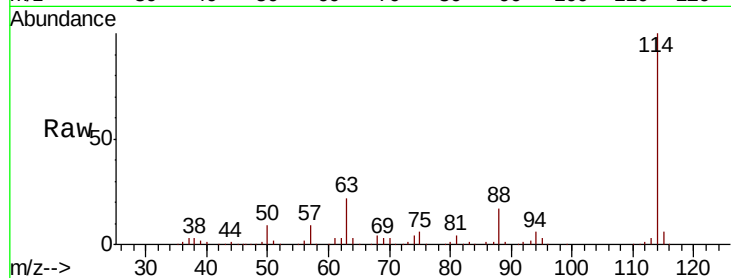




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

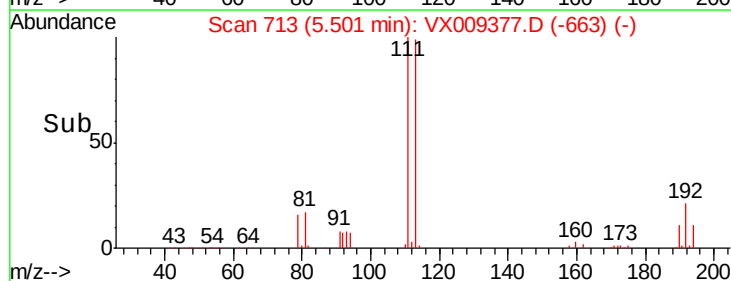
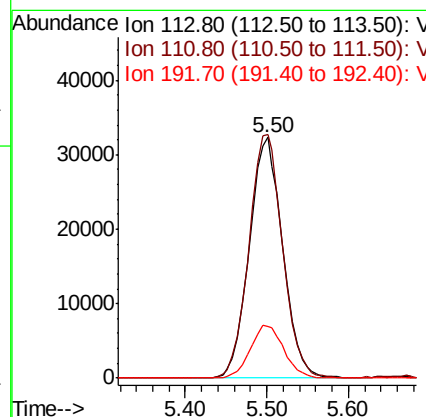
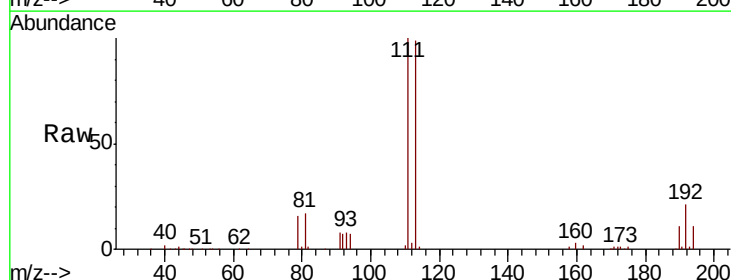
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-190506

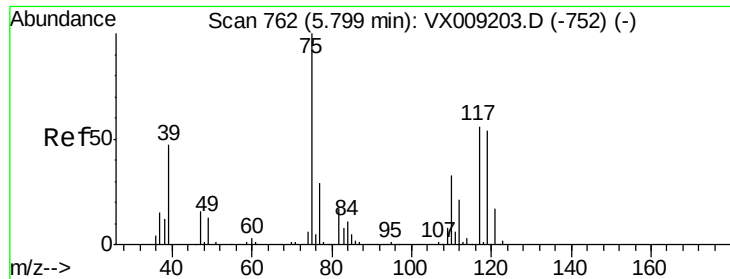
Tot Ion:114 Resp: 298677  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 45.6  
 88 16.8 0.0 33.2



#35  
 Dibromofluoromethane  
 Concen: 49.008 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

Tgt Ion:113 Resp: 92017  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 82.8 124.2  
 192 21.9 17.0 25.6

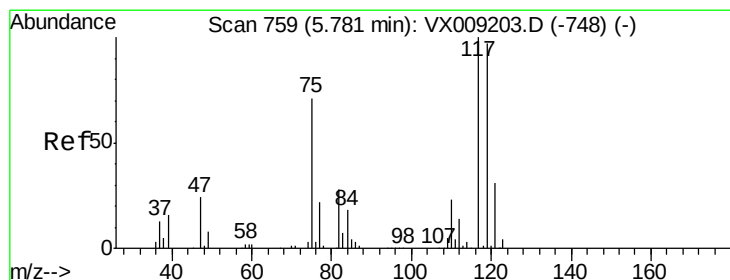
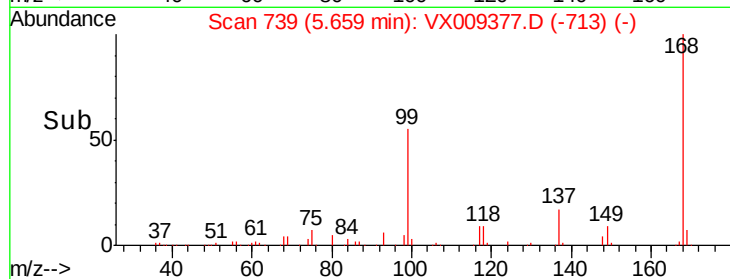
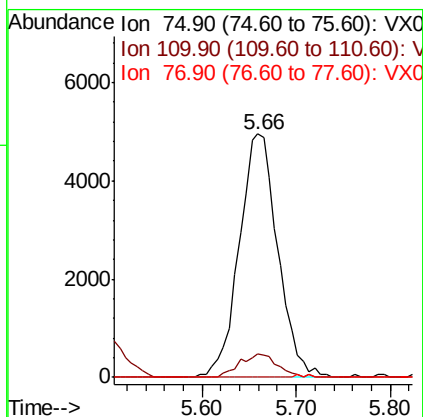
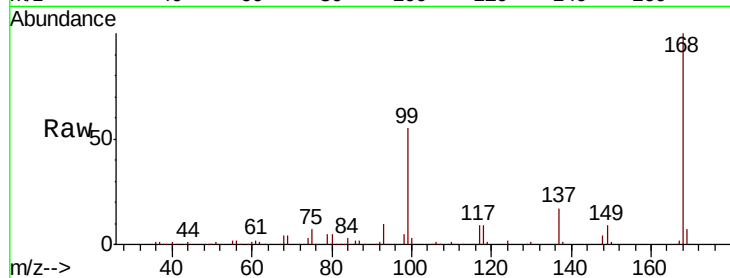




#36  
 1,1-Dichloropropene  
 Concen: 5.113 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

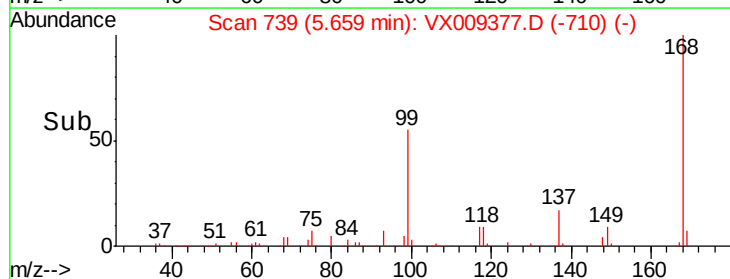
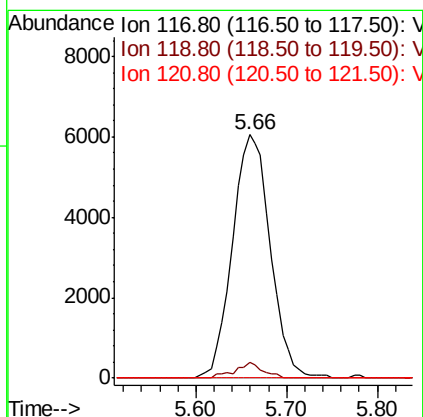
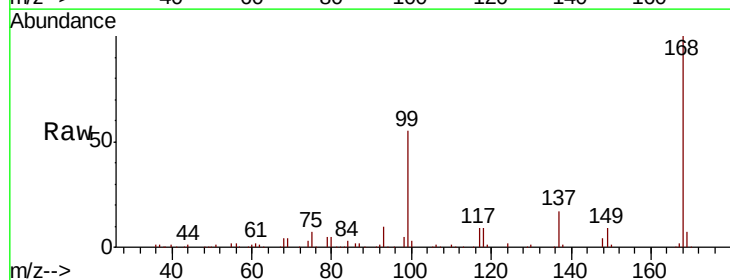
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-190506

| Tot Ion   | 75  | Resp  | 14192 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 9.3 | 16.9  | 50.6# |
| 77        | 0.0 | 24.8  | 37.2# |

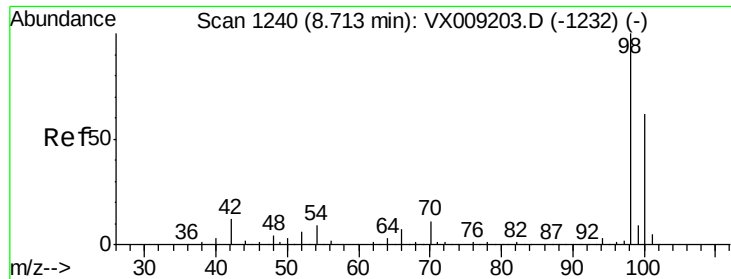


#38  
 Carbon Tetrachloride  
 Concen: 6.941 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

| Tgt Ion   | 117 | Resp  | 17504  |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 117       | 100 |       |        |
| 119       | 6.7 | 77.5  | 116.3# |
| 121       | 0.0 | 24.7  | 37.1#  |



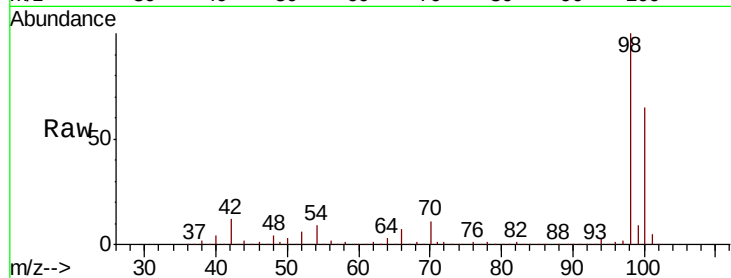




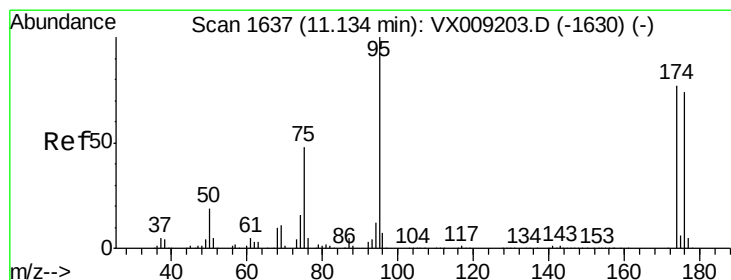
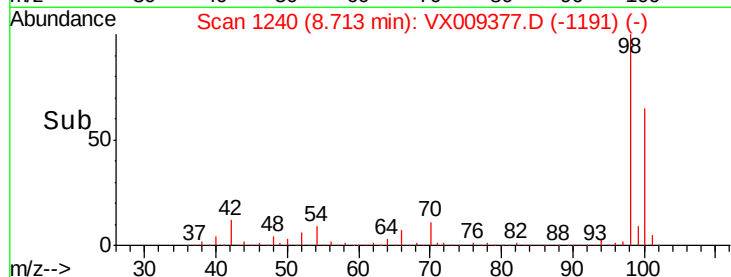
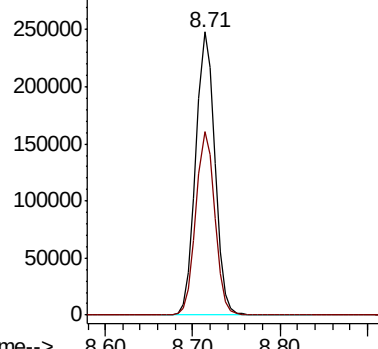
#50  
Toluene-d8  
Concen: 49.698 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX009377.D  
Acq: 07 May 2019 15:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS003RW114R-190506

Tot Ion: 98 Resp: 376729  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.2 76.8

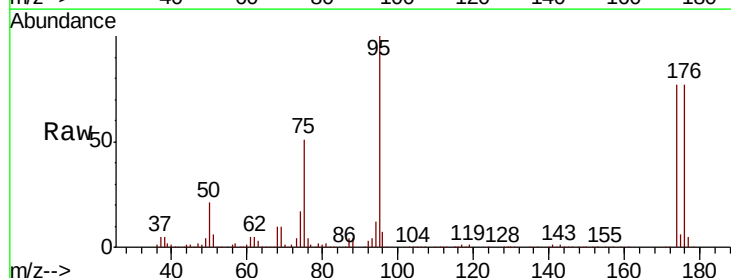


Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

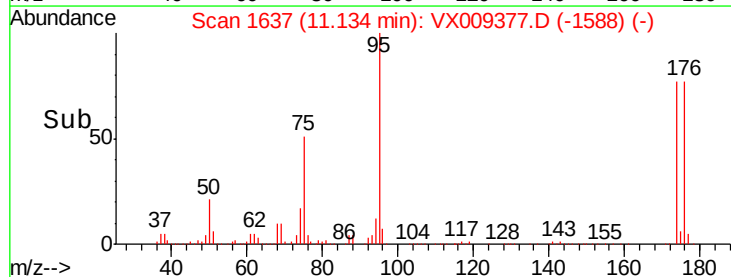
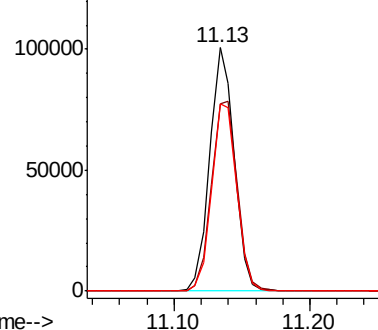


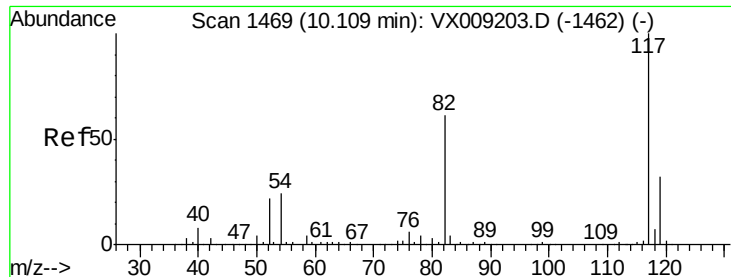
#62  
4-Bromofluorobenzene  
Concen: 45.762 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX009377.D  
Acq: 07 May 2019 15:20

Tgt Ion: 95 Resp: 126046  
Ion Ratio Lower Upper  
95 100  
174 82.4 0.0 161.6  
176 79.2 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

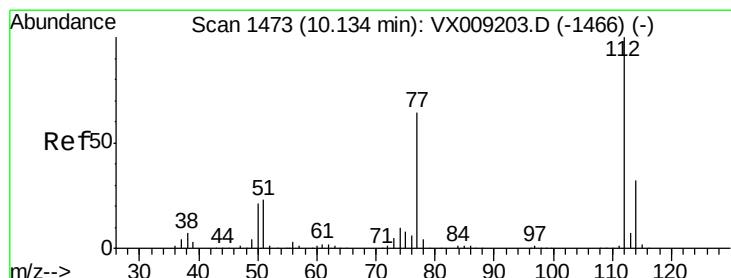
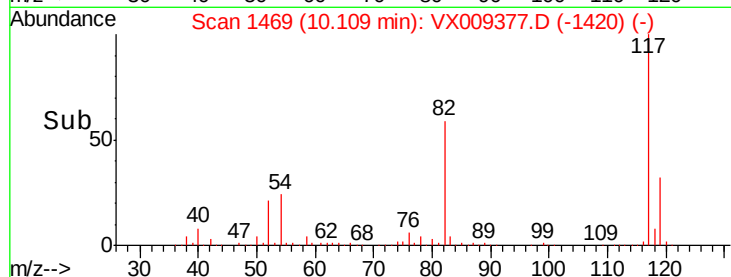
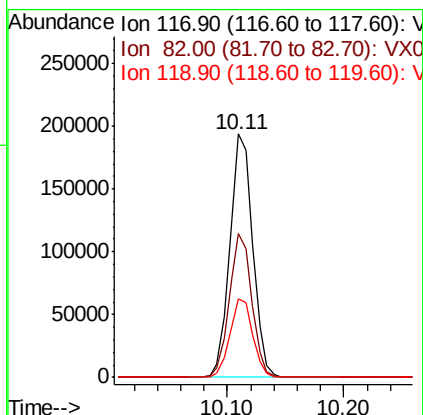
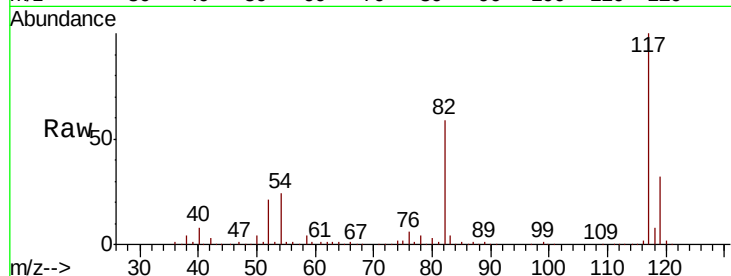




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009377.D  
Acq: 07 May 2019 15:20

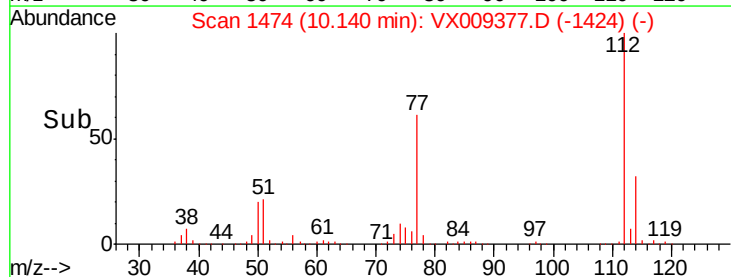
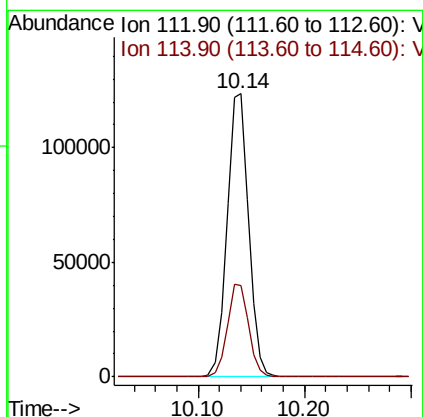
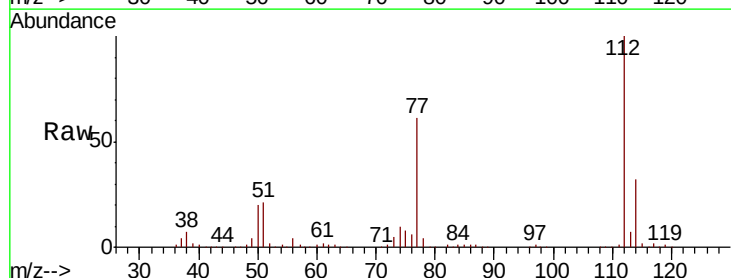
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS003RW114R-190506

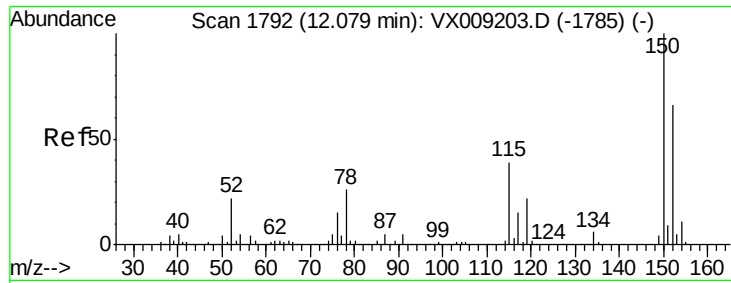
Tot Ion:117 Resp: 264561  
Ion Ratio Lower Upper  
117 100  
82 59.3 48.8 73.2  
119 32.3 25.8 38.6



#65  
Chlorobenzene  
Concen: 33.115 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VX009377.D  
Acq: 07 May 2019 15:20

Tgt Ion:112 Resp: 175259  
Ion Ratio Lower Upper  
112 100  
114 32.5 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009377.D

Acq: 07 May 2019 15:20

Instrument :

MSVOA\_X

ClientSampleId :

SS003RW114R-190506

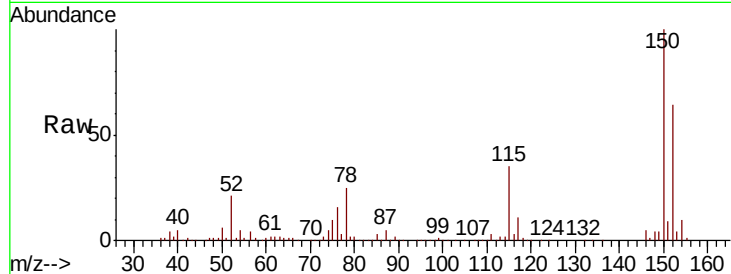
Tot Ion:152 Resp: 115698

Ion Ratio Lower Upper

152 100

115 58.1 41.2 123.6

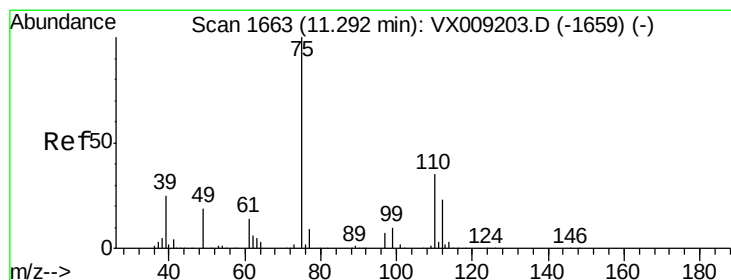
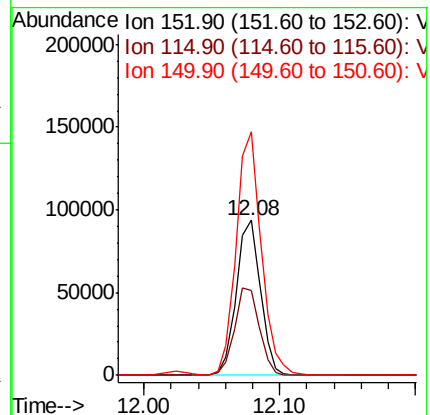
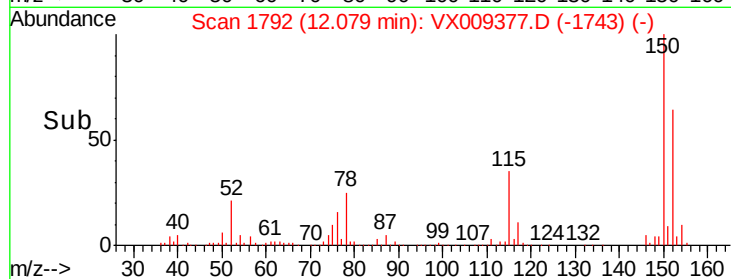
150 163.4 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 23.696 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009377.D

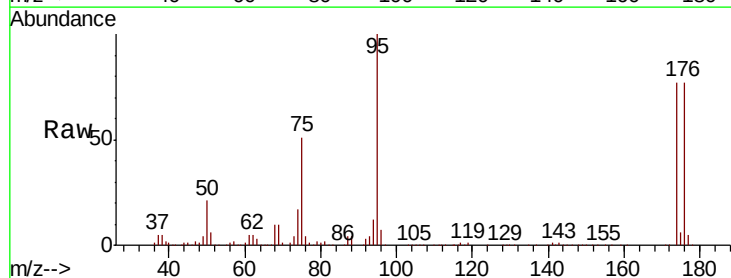
Acq: 07 May 2019 15:20

Tgt Ion: 75 Resp: 63594

Ion Ratio Lower Upper

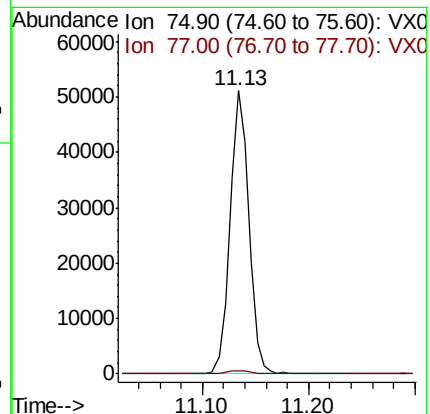
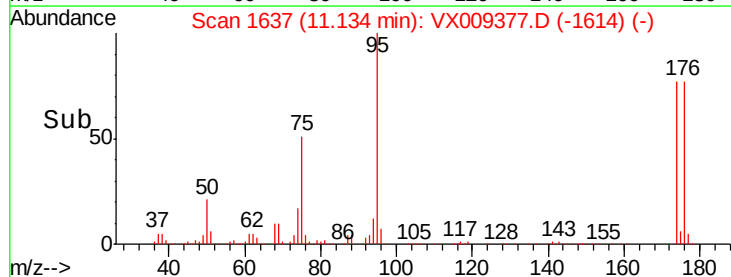
75 100

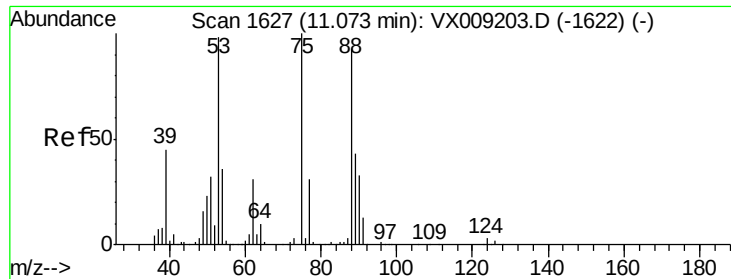
77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

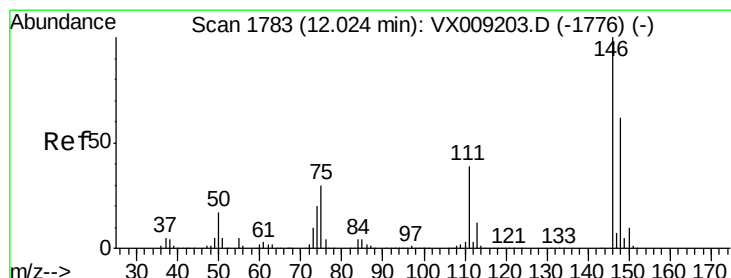
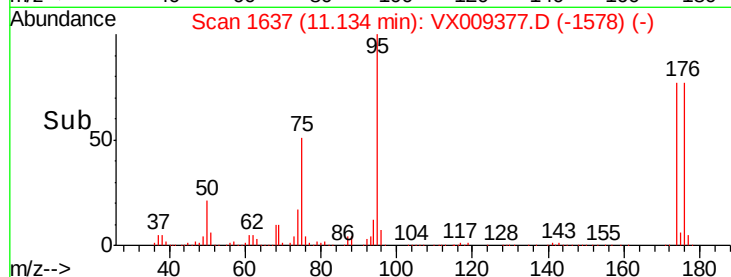
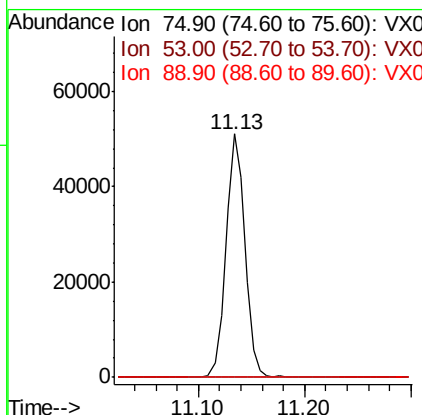
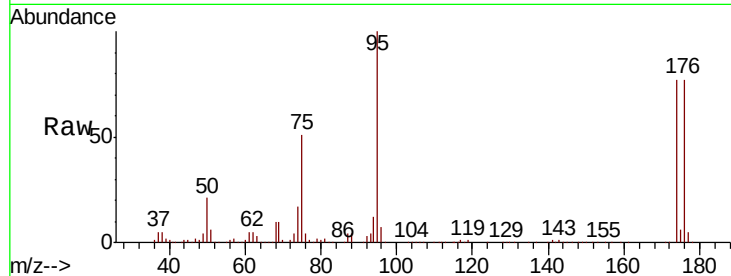




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 60.629 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

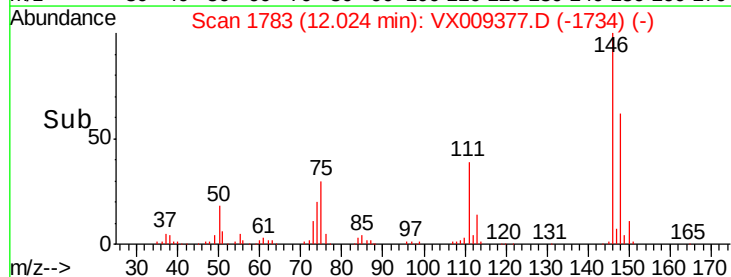
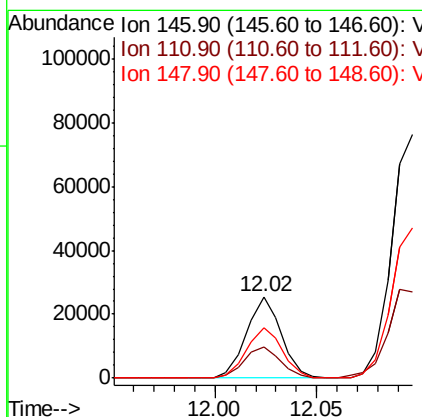
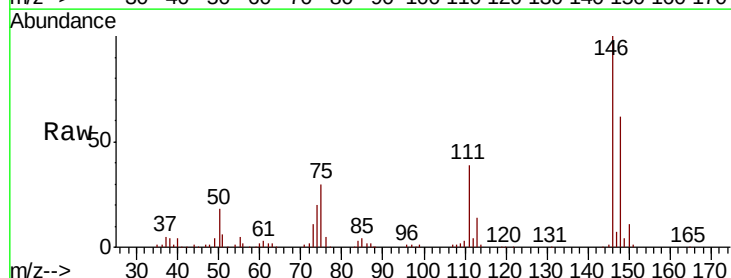
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-190506

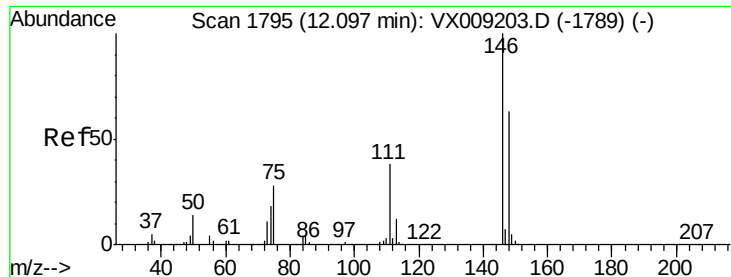
Tot Ion: 75 Resp: 63594  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 79.0 118.6#  
 89 0.0 34.7 52.1#



#87  
 1,3-Dichlorobenzene  
 Concen: 8.064 ug/l  
 RT: 12.02 min Scan# 1783  
 Delta R.T. -0.00 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

Tgt Ion: 146 Resp: 30019  
 Ion Ratio Lower Upper  
 146 100  
 111 40.5 20.0 59.9  
 148 64.8 31.8 95.3

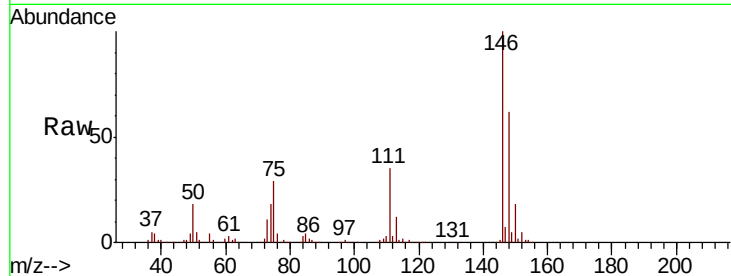




#88  
 1,4-Dichlorobenzene  
 Concen: 24.640 ug/l  
 RT: 12.10 min Scan# 1795  
 Delta R.T. 0.00 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-190506

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.8  | 19.6  | 58.8  |
| 148     | 63.8  | 31.8  | 95.3  |

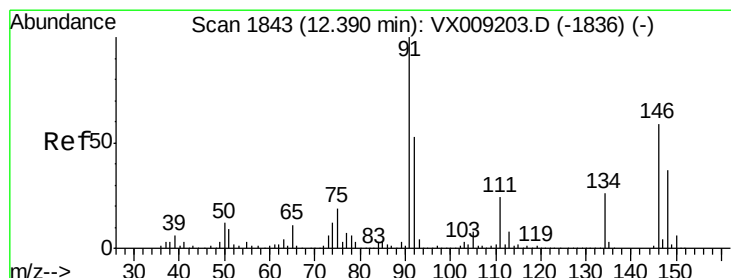
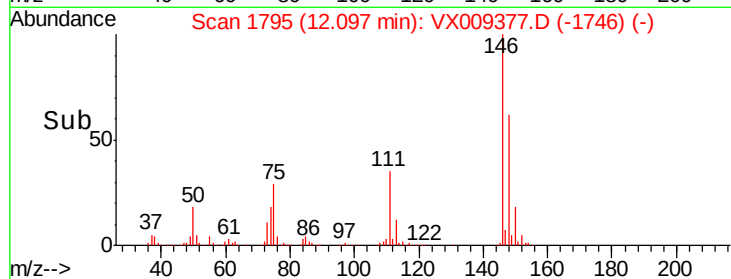
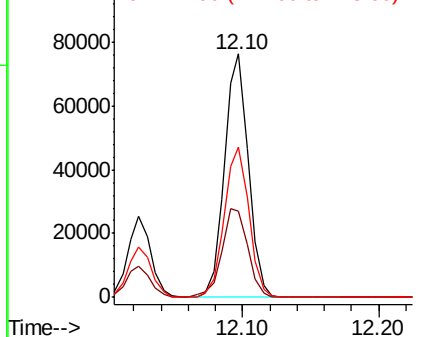


Abundance

Ion 145.90 (145.60 to 146.60): V

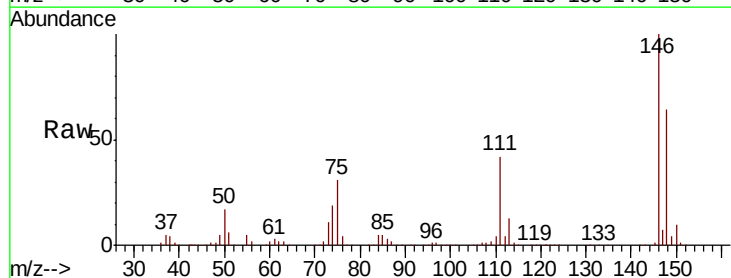
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91  
 1,2-Dichlorobenzene  
 Concen: 138.249 ug/l  
 RT: 12.39 min Scan# 1843  
 Delta R.T. 0.00 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.5  | 20.8  | 62.4  |
| 148     | 64.4  | 31.9  | 95.9  |

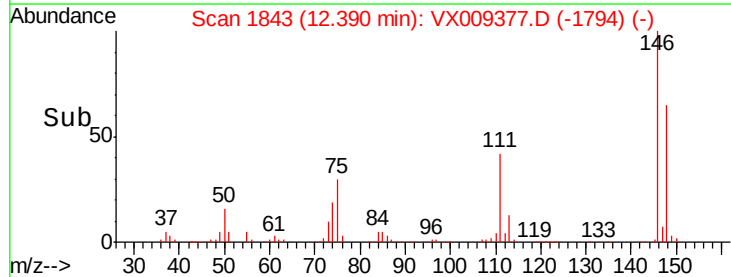
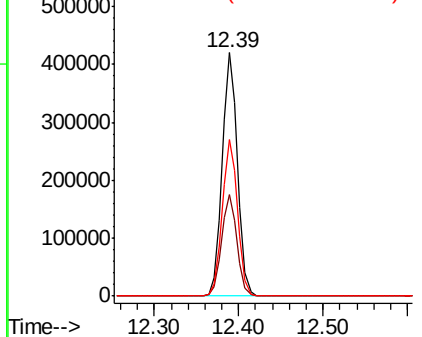


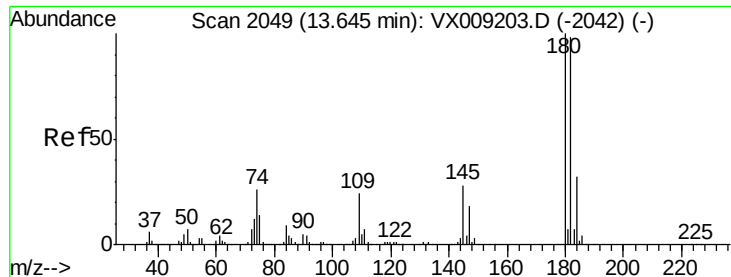
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

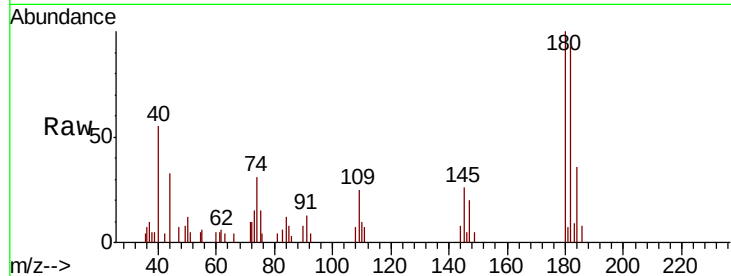




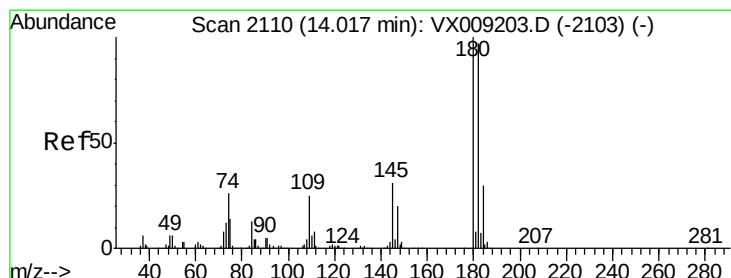
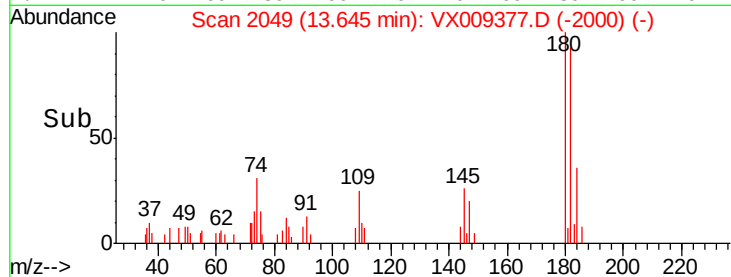
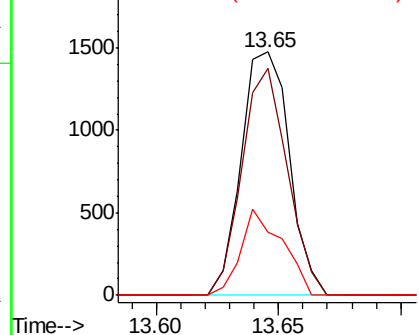
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.781 ug/l  
 RT: 13.65 min Scan# 2049  
 Delta R.T. 0.00 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-190506

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 88.0  | 48.4  | 145.2 |
| 145     | 30.4  | 14.6  | 43.8  |

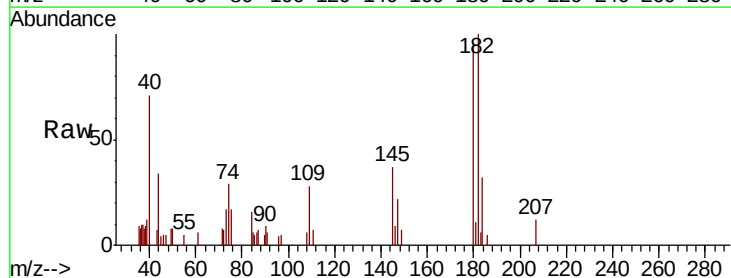


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V



#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.532 ug/l  
 RT: 14.02 min Scan# 2110  
 Delta R.T. 0.00 min  
 Lab File: VX009377.D  
 Acq: 07 May 2019 15:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 100.1 | 47.8  | 143.4 |
| 145     | 36.3  | 15.4  | 46.4  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

