

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX080719\  
 Data File : VX011354.D  
 Acq On : 07 Aug 2019 11:29  
 Operator : JC/SP  
 Sample : VX0807WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0807WBL01

Quant Time: Aug 08 07:01:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 153687   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 246036   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 229378   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 96852    | 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   | 88061    | 56.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.80% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 80753    | 50.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.54% |          |
| 50) Toluene-d8              | 8.71  | 98   | 297688   | 49.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.20%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 99161    | 45.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.62%  |          |

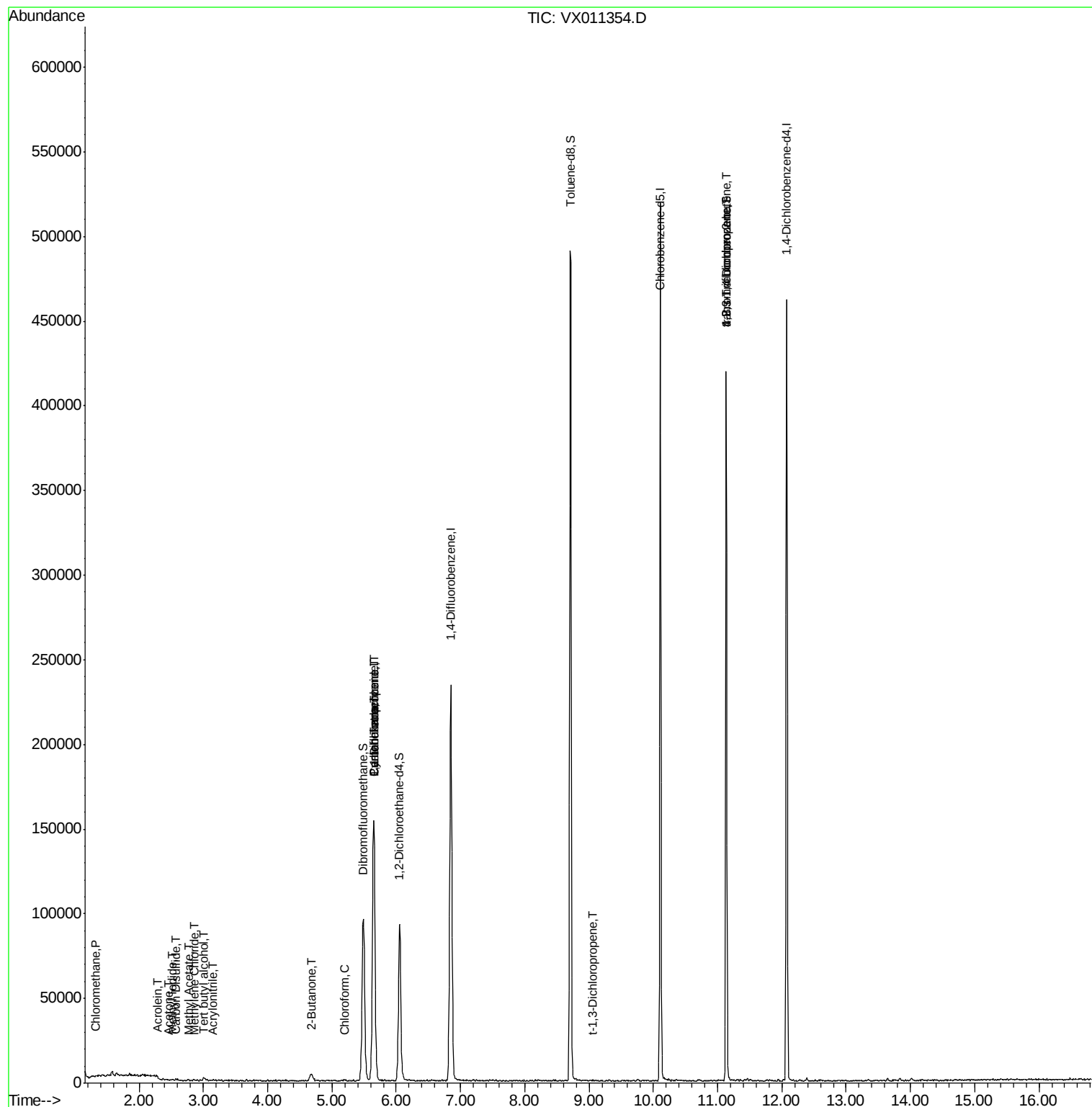
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 323      | 0.242     | ug/l # | 74     |
| 6) Chloroethane                | 1.69  | 64   | 163      | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 702      | 0.395     | ug/l # | 87     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1117     | 3.642     | ug/l # | 85     |
| 13) Acrolein                   | 2.29  | 56   | 126      | 0.235     | ug/l # | 15     |
| 15) Acrylonitrile              | 3.15  | 53   | 376      | 0.511     | ug/l # | 58     |
| 16) Acetone                    | 2.45  | 43   | 235      | 0.319     | ug/l # | 40     |
| 17) Carbon Disulfide           | 2.56  | 76   | 935      | 0.285     | ug/l # | 80     |
| 18) Methyl Acetate             | 2.76  | 43   | 363      | 0.216     | ug/l # | 91     |
| 20) Methylene Chloride         | 2.86  | 84   | 327      | 0.203     | ug/l # | 52     |
| 25) 2-Butanone                 | 4.67  | 43   | 241      | 0.230     | ug/l # | 46     |
| 30) Chloroform                 | 5.20  | 83   | 710      | 0.270     | ug/l # | 55     |
| 31) Cyclohexane                | 5.65  | 56   | 3230     | 1.621     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 10626    | 4.947     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 14710    | 6.807     | ug/l # | 15     |
| 53) t-1,3-Dichloropropene      | 9.05  | 75   | 108      | 2.881     | ug/l # | 43     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 49495    | 28.062    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 49495    | 72.675    | ug/l # | 10     |

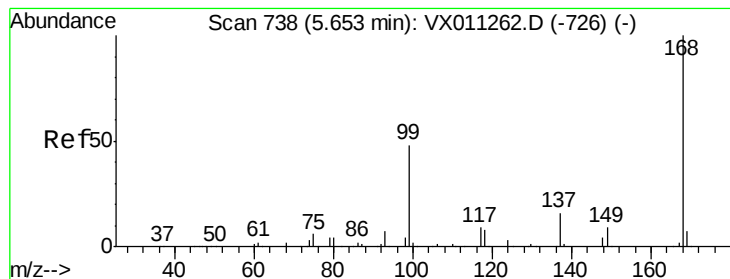
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX080719\  
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Sample : VX0807WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

Quant Time: Aug 08 07:01:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

Instrument :

MSVOA\_X

ClientSampleId :

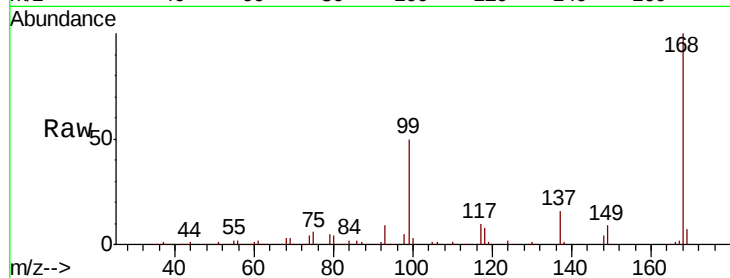
VX0807WBL01

Tgt Ion:168 Resp: 153687

Ion Ratio Lower Upper

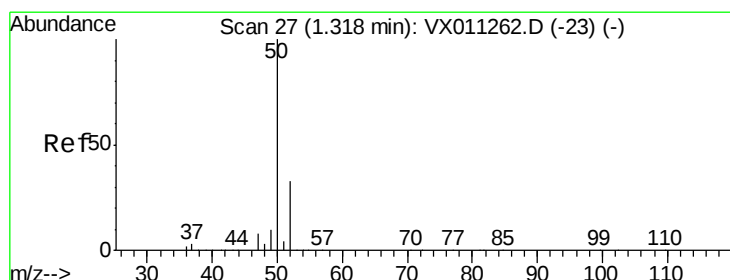
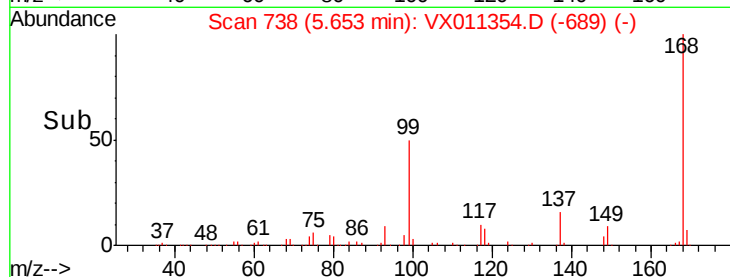
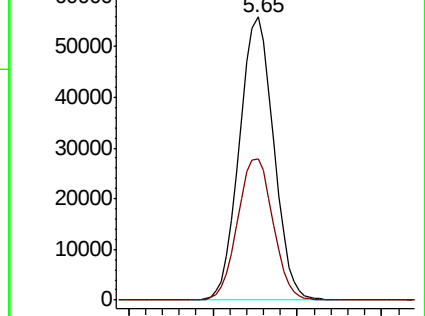
168 100

99 49.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.242 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011354.D

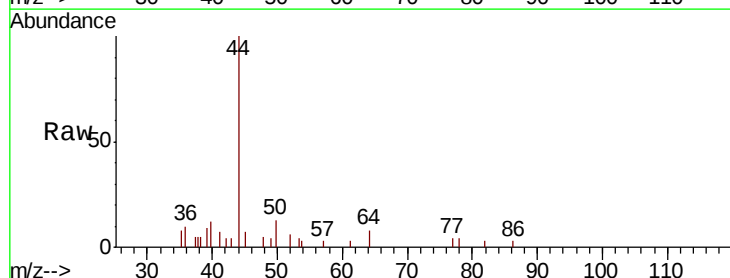
Acq: 07 Aug 2019 11:29

Tgt Ion: 50 Resp: 323

Ion Ratio Lower Upper

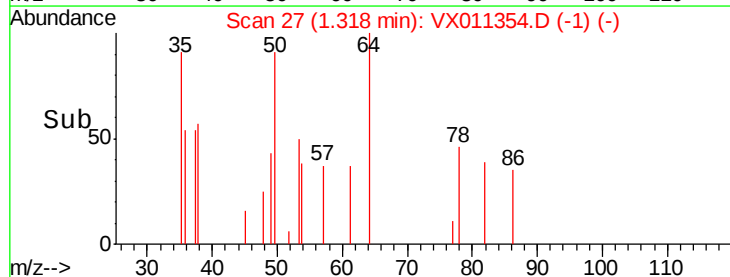
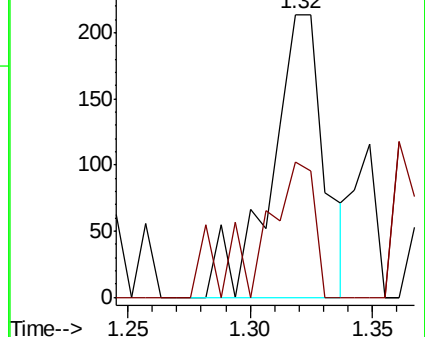
50 100

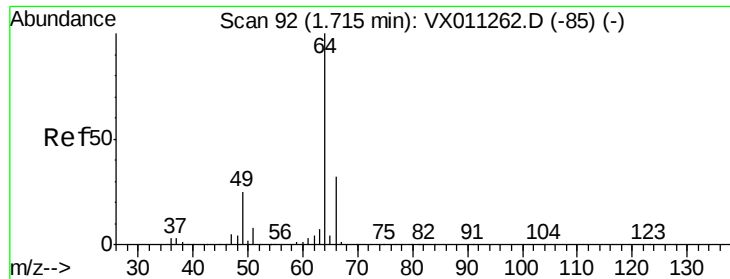
52 47.7 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

Instrument :

MSVOA\_X

ClientSampled :

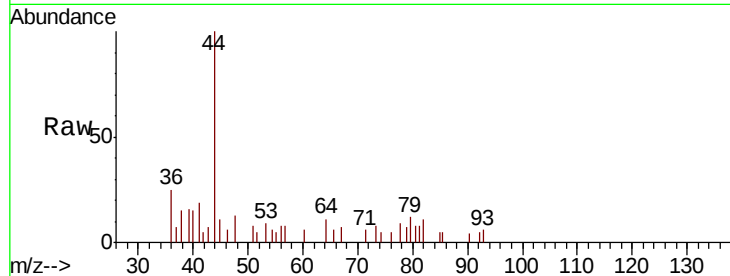
VX0807WBL01

Tgt Ion: 64 Resp: 163

Ion Ratio Lower Upper

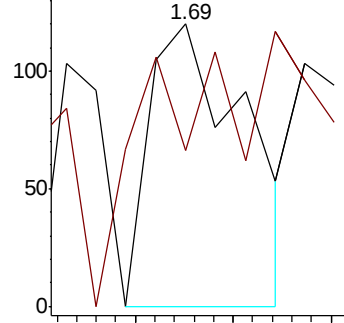
64 100

66 0.0 25.1 37.7#

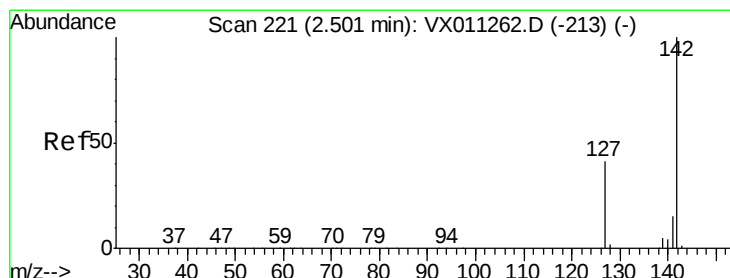
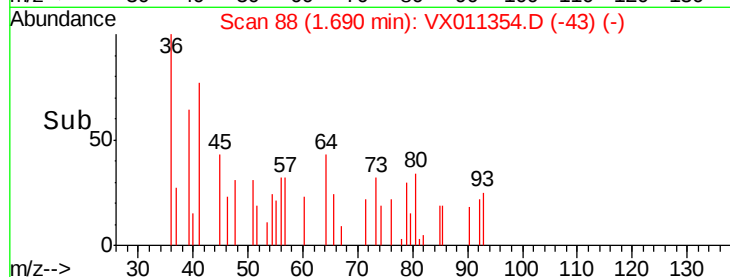


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#10

Methyl Iodide

Concen: 0.395 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.02 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

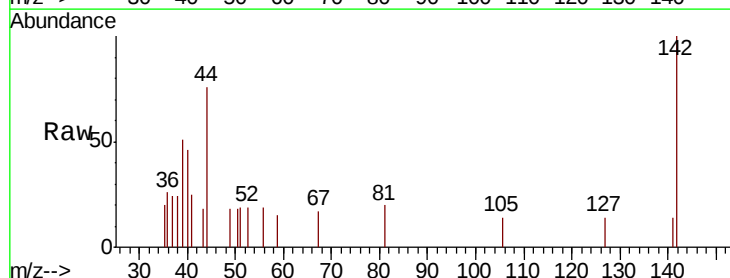
Tgt Ion: 142 Resp: 702

Ion Ratio Lower Upper

142 100

127 37.3 33.8 50.8

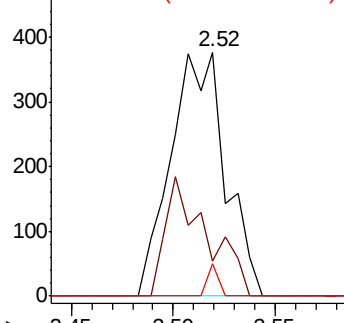
141 2.7 11.4 17.2#



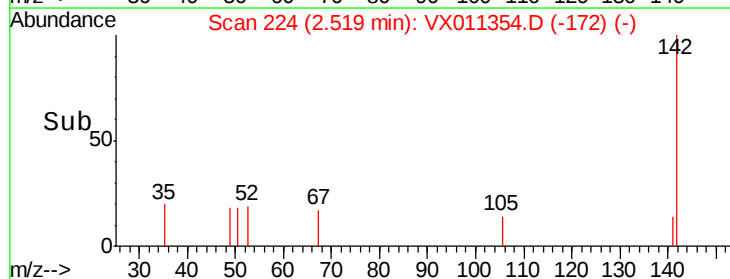
Abundance Ion 141.80 (141.50 to 142.50): V

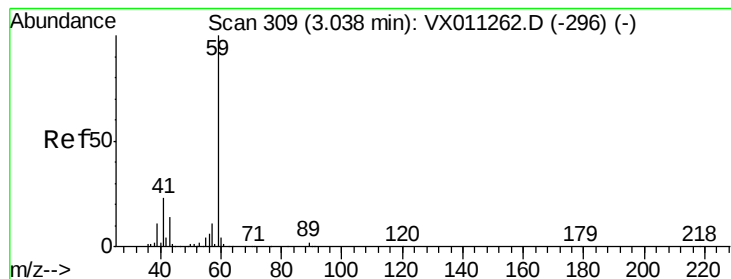
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 3.642 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

Instrument :

MSVOA\_X

ClientSampleId :

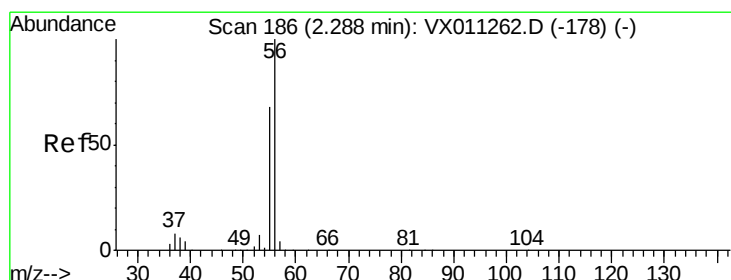
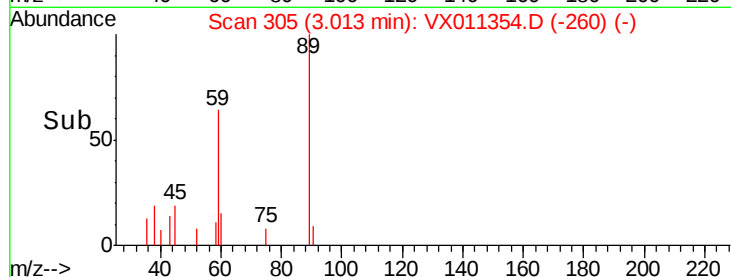
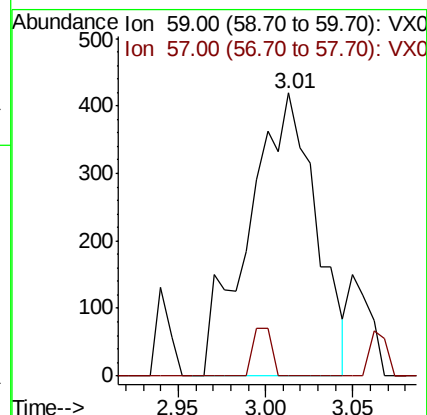
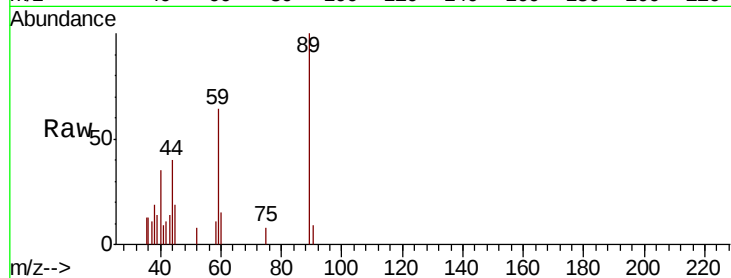
VX0807WBL01

Tgt Ion: 59 Resp: 1117

Ion Ratio Lower Upper

59 100

57 4.7 8.3 12.5#



#13

Acrolein

Concen: 0.235 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX011354.D

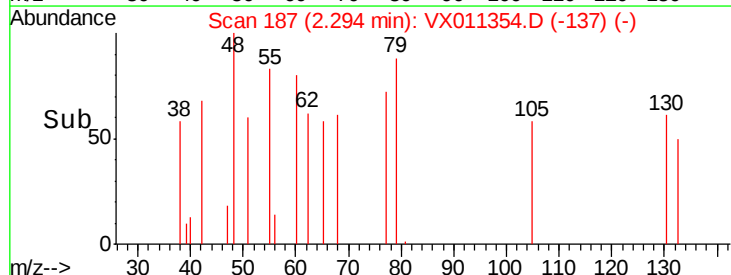
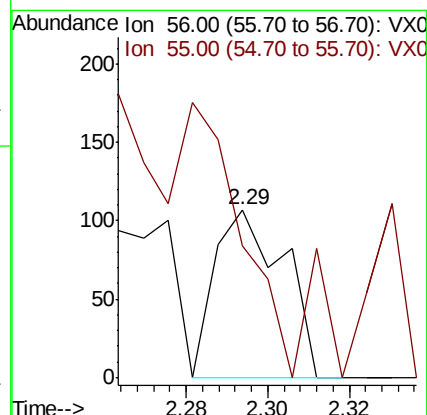
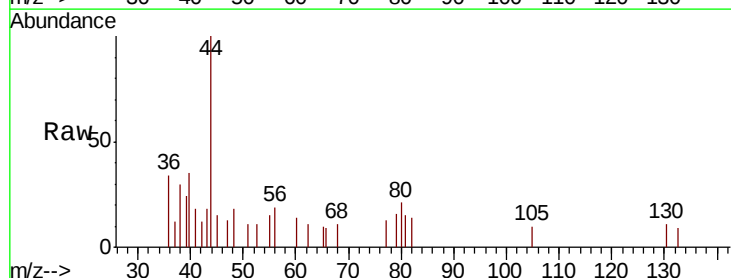
Acq: 07 Aug 2019 11:29

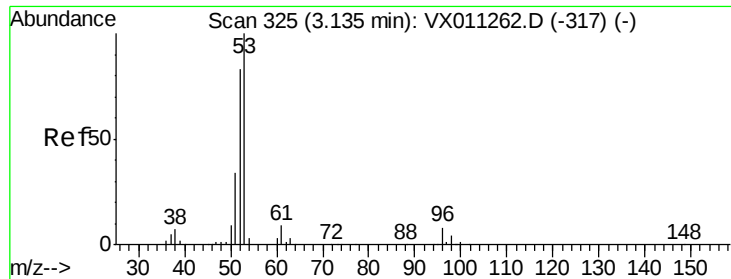
Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

56 100

55 0.0 56.0 84.0#





#15

Acrylonitrile

Concen: 0.511 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VX0807WBL01

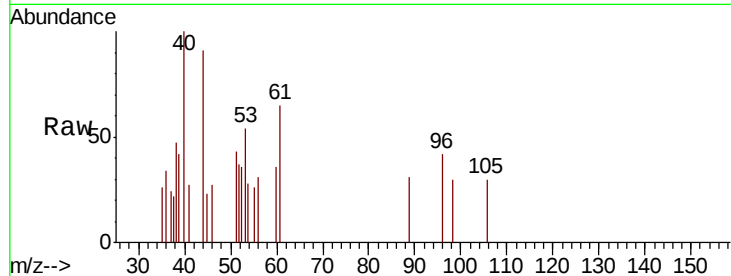
Tgt Ion: 53 Resp: 376

Ion Ratio Lower Upper

53 100

52 31.1 65.5 98.3#

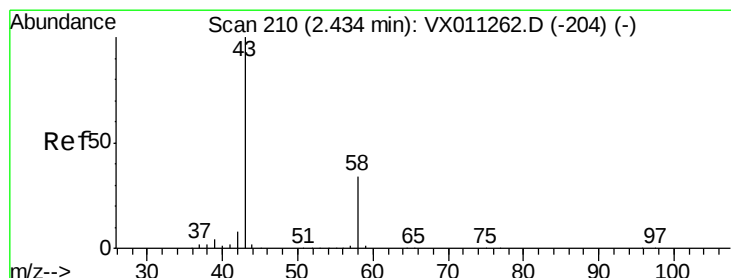
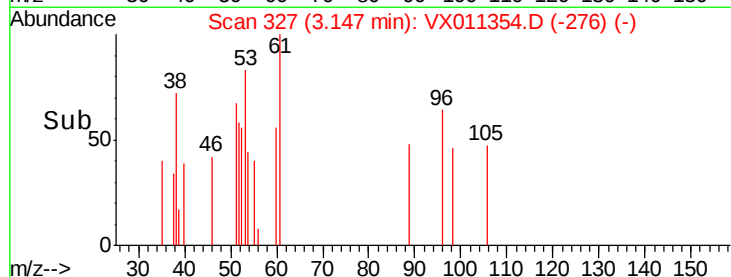
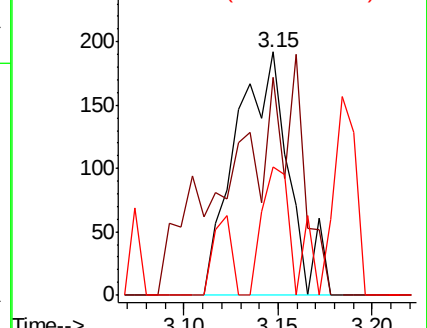
51 31.6 27.9 41.9



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: 0.319 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX011354.D

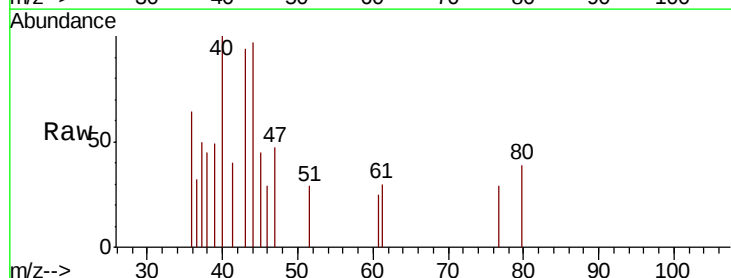
Acq: 07 Aug 2019 11:29

Tgt Ion: 43 Resp: 235

Ion Ratio Lower Upper

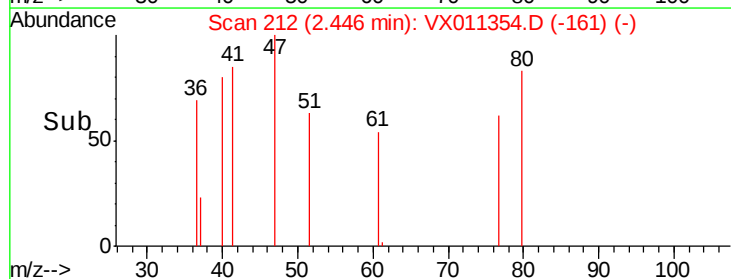
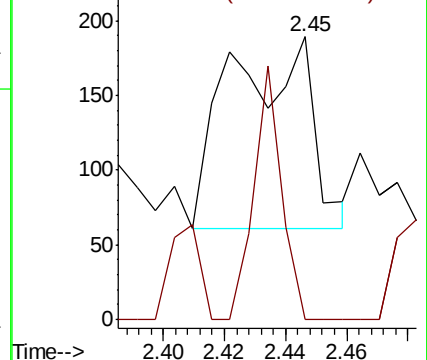
43 100

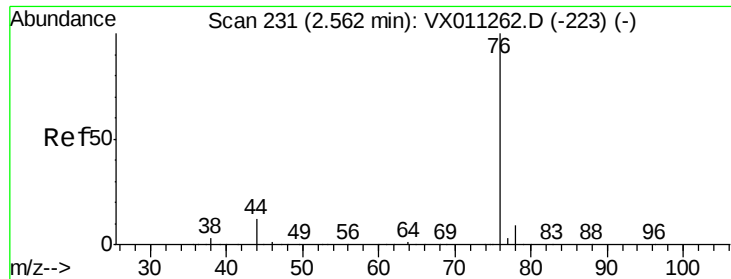
58 0.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

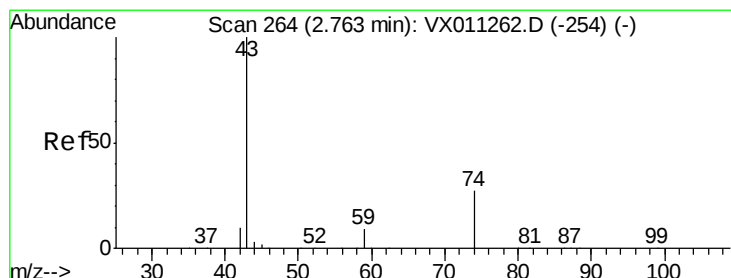
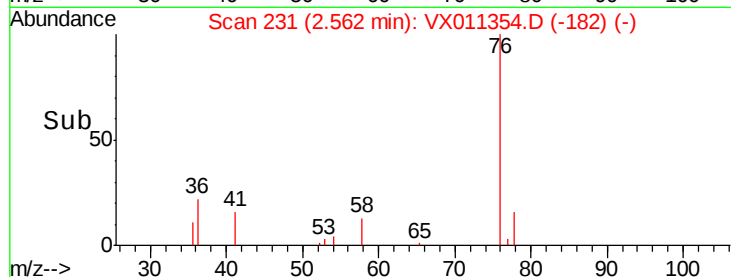
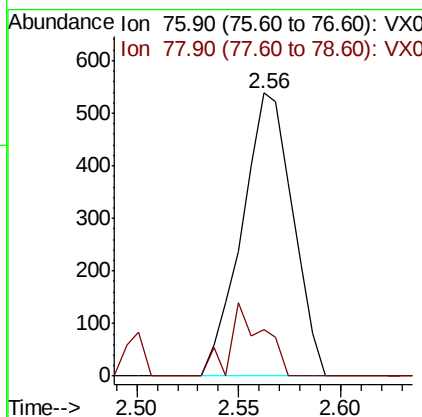
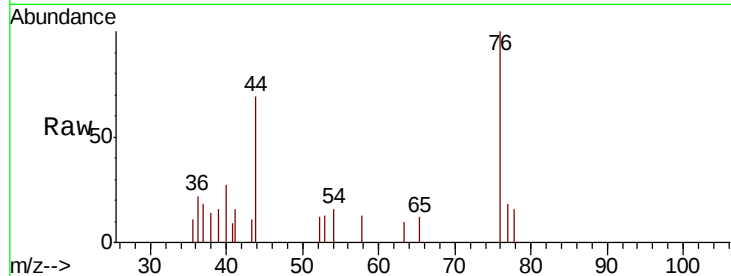




#17  
Carbon Disulfide  
Concen: 0.285 ug/l  
RT: 2.56 min Scan# 231  
Delta R.T. 0.00 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

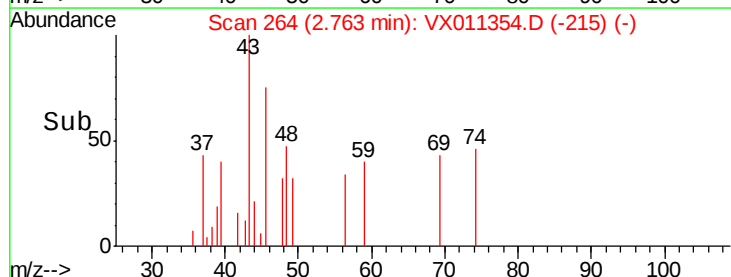
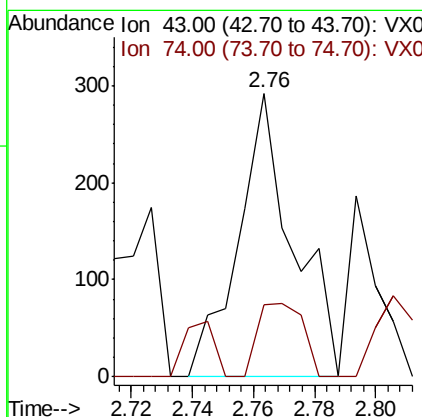
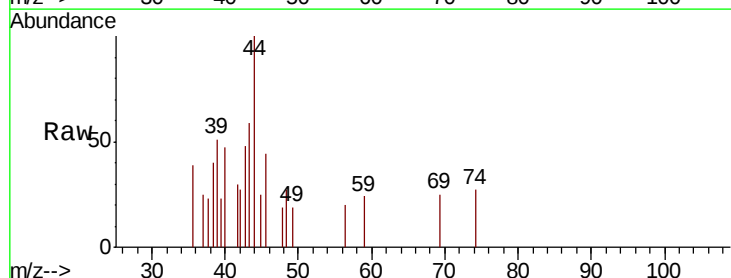
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

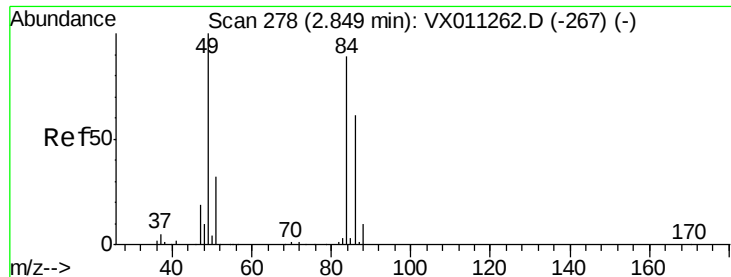
Tgt Ion: 76 Resp: 935  
Ion Ratio Lower Upper  
76 100  
78 16.4 7.4 11.0#



#18  
Methyl Acetate  
Concen: 0.216 ug/l  
RT: 2.76 min Scan# 264  
Delta R.T. 0.00 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Tgt Ion: 43 Resp: 363  
Ion Ratio Lower Upper  
43 100  
74 21.5 21.0 31.6

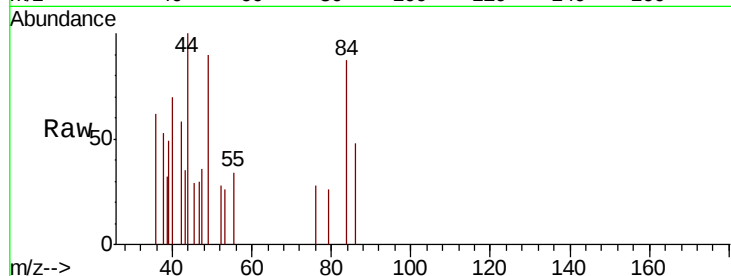




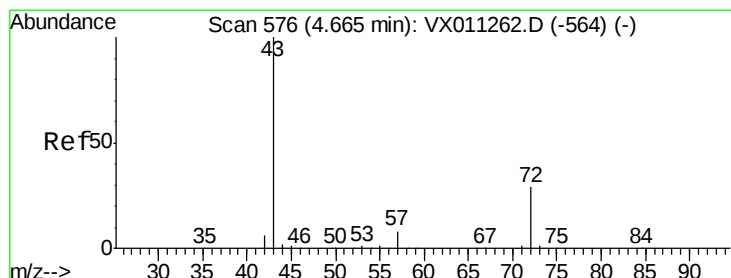
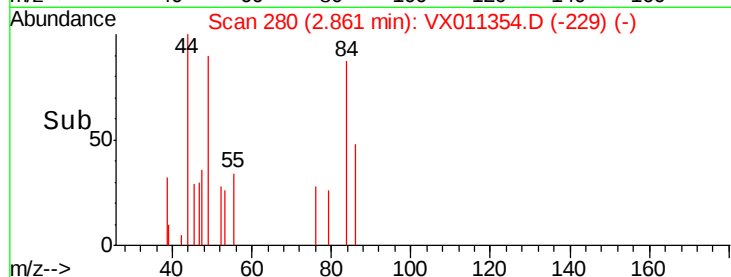
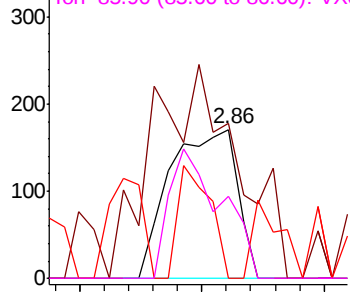
#20  
Methylene Chloride  
Concen: 0.203 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 327    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 44.4  | 89.3  | 133.9# |
| 51       | 0.0   | 28.3  | 42.5#  |
| 86       | 55.0  | 54.5  | 81.7   |

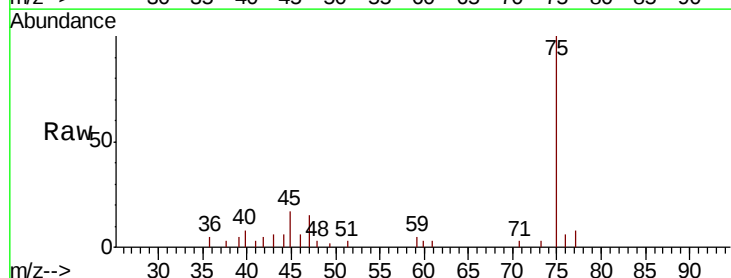


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

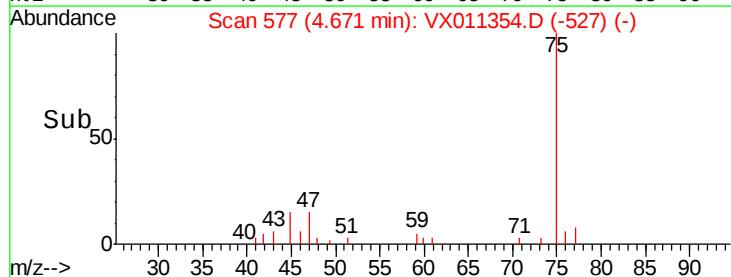
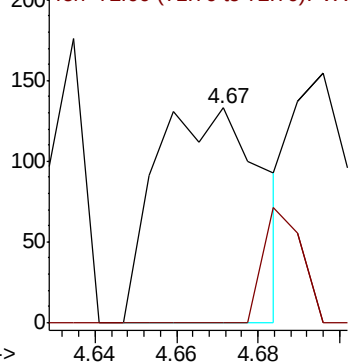


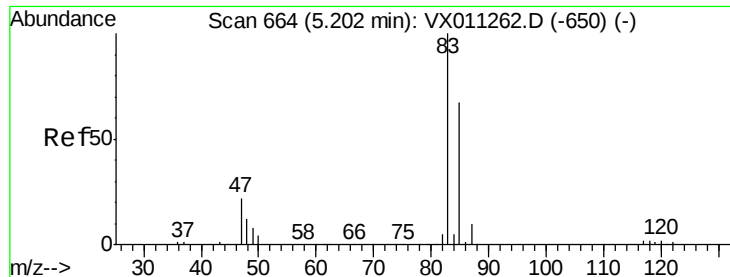
#25  
2-Butanone  
Concen: 0.230 ug/l  
RT: 4.67 min Scan# 577  
Delta R.T. 0.01 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 241   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 23.2  | 34.8# |



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0

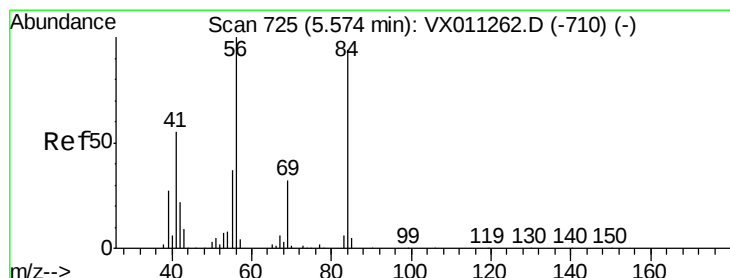
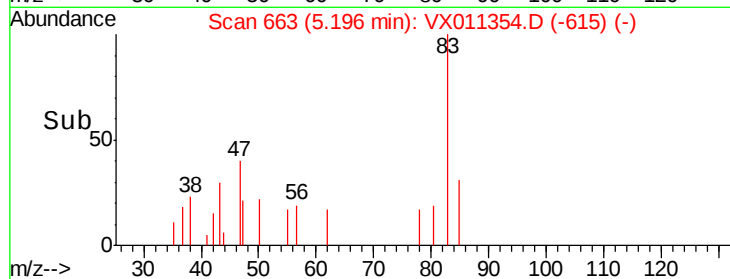
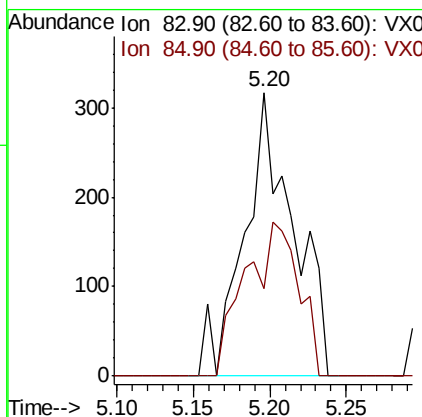
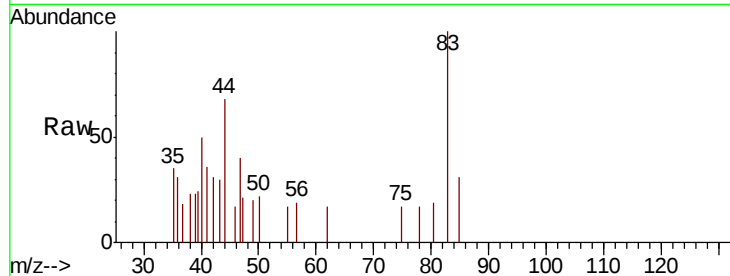




#30  
Chloroform  
Concen: 0.270 ug/l  
RT: 5.20 min Scan# 663  
Delta R.T. -0.01 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

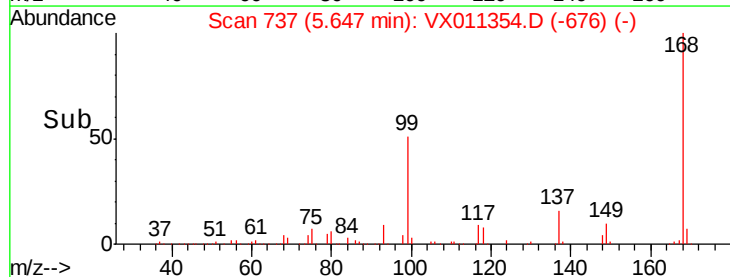
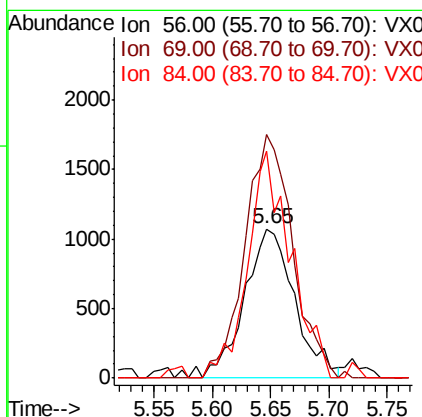
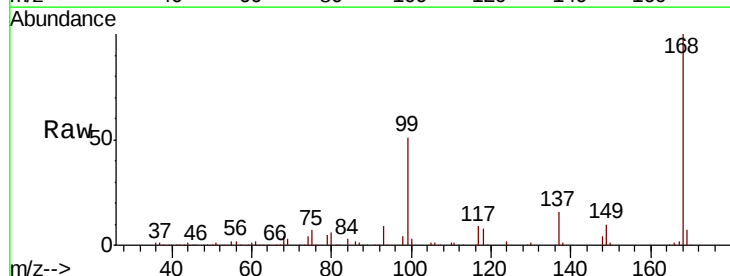
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

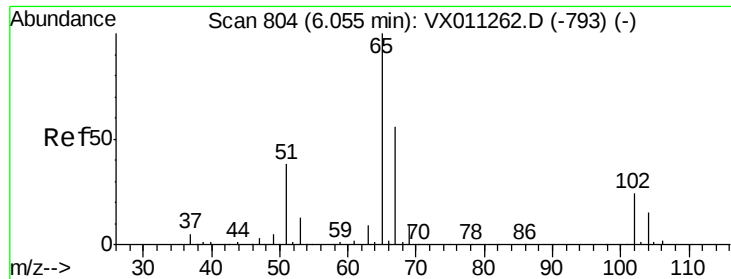
Tgt Ion: 83 Resp: 710  
Ion Ratio Lower Upper  
83 100  
85 30.9 53.4 80.0#



#31  
Cyclohexane  
Concen: 1.621 ug/l  
RT: 5.65 min Scan# 737  
Delta R.T. 0.07 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Tgt Ion: 56 Resp: 3230  
Ion Ratio Lower Upper  
56 100  
69 163.0 25.5 38.3#  
84 151.6 75.0 112.4#

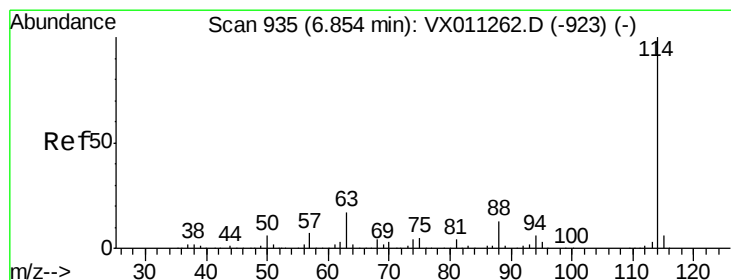
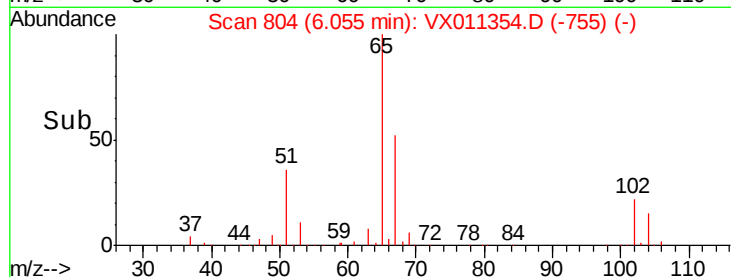
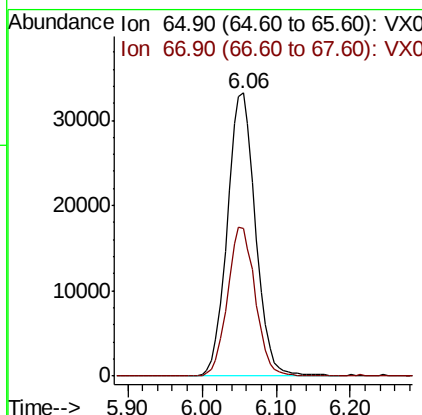
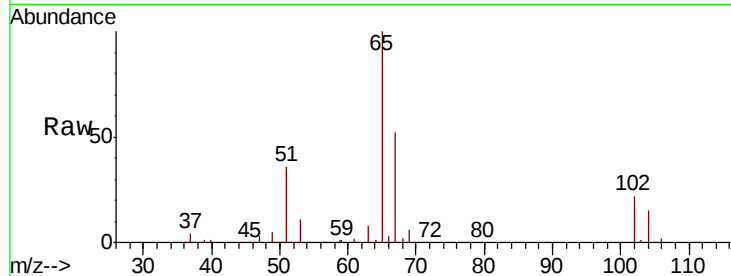




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.898 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: VX011354.D  
 Acq: 07 Aug 2019 11:29

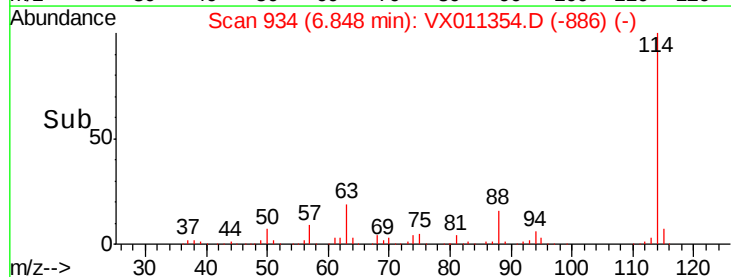
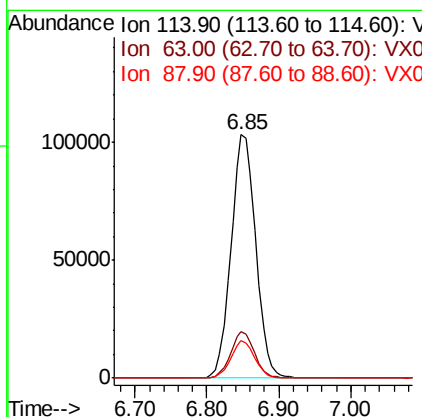
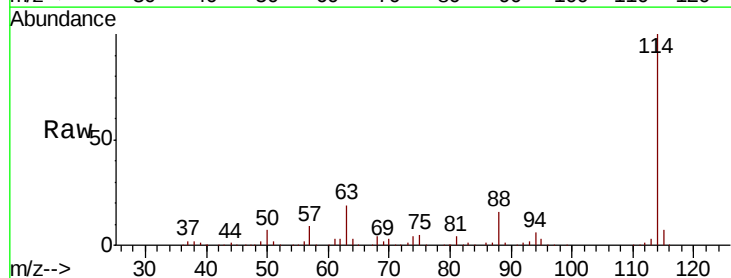
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0807WBL01

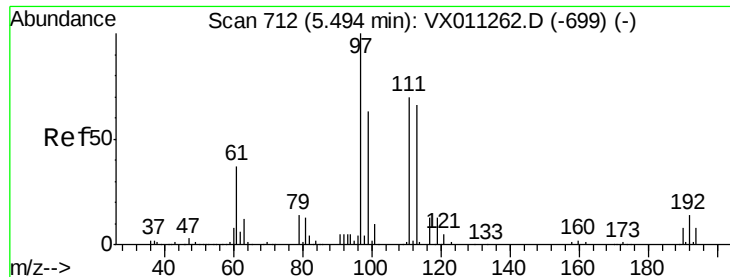
Tgt Ion: 65 Resp: 88061  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 934  
 Delta R.T. -0.01 min  
 Lab File: VX011354.D  
 Acq: 07 Aug 2019 11:29

Tgt Ion: 114 Resp: 246036  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 34.0  
 88 15.6 0.0 26.4





#35

Dibromofluoromethane

Concen: 50.272 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VX0807WBL01

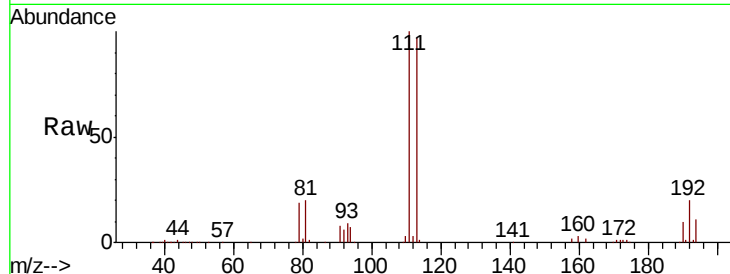
Tgt Ion:113 Resp: 80753

Ion Ratio Lower Upper

113 100

111 101.8 81.9 122.9

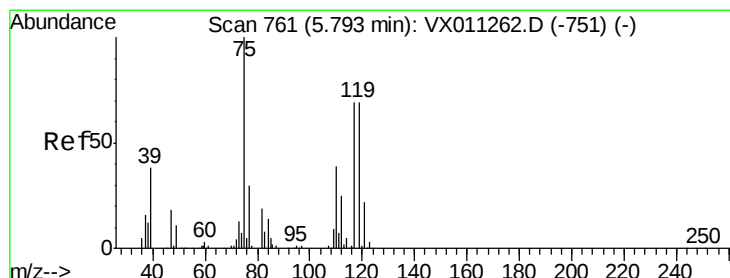
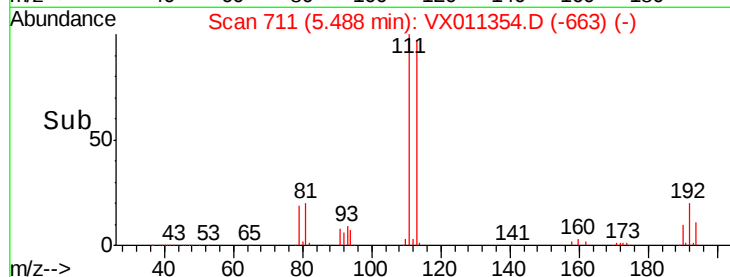
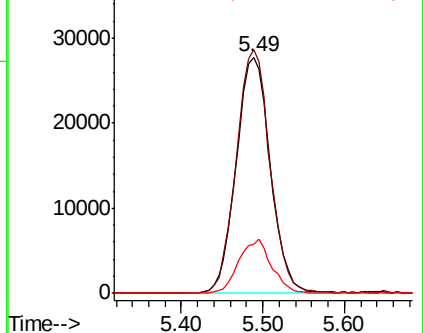
192 21.9 17.8 26.8



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



#36

1,1-Dichloropropene

Concen: 4.947 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011354.D

Acq: 07 Aug 2019 11:29

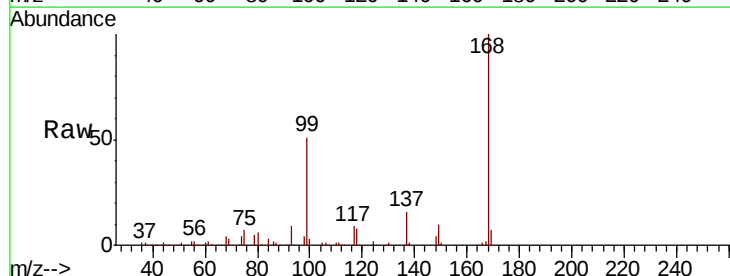
Tgt Ion: 75 Resp: 10626

Ion Ratio Lower Upper

75 100

110 10.6 20.0 59.9#

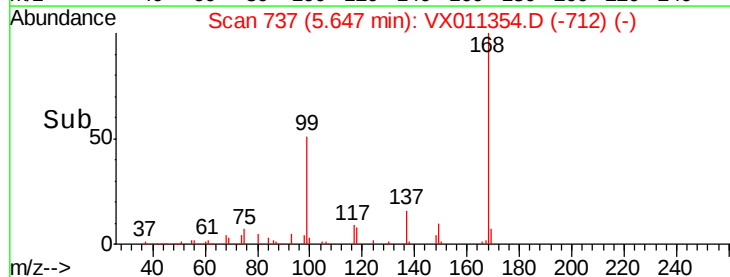
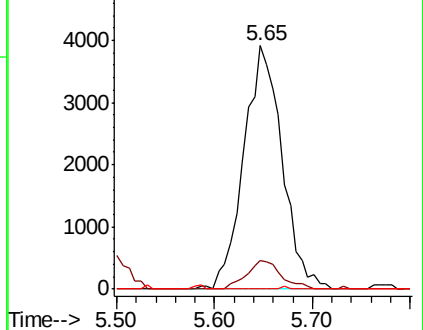
77 0.0 24.8 37.2#

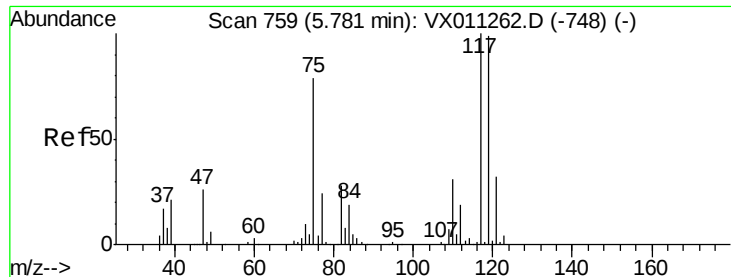


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

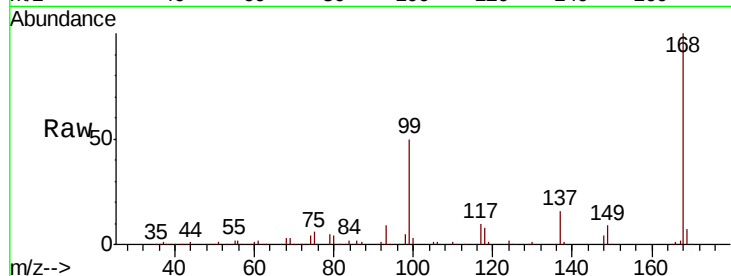




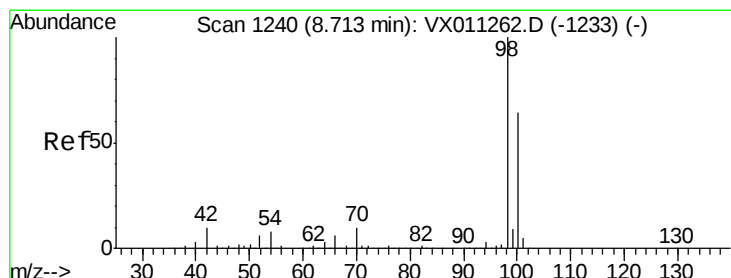
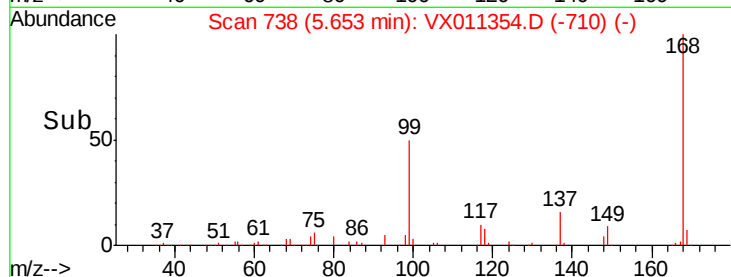
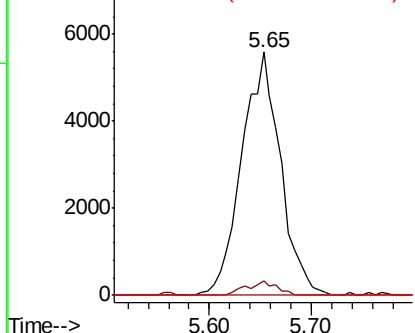
#38  
Carbon Tetrachloride  
Concen: 6.807 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. -0.13 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

Tgt Ion: 117 Resp: 14710  
Ion Ratio Lower Upper  
117 100  
119 5.7 79.0 118.4#  
121 0.0 25.9 38.9#

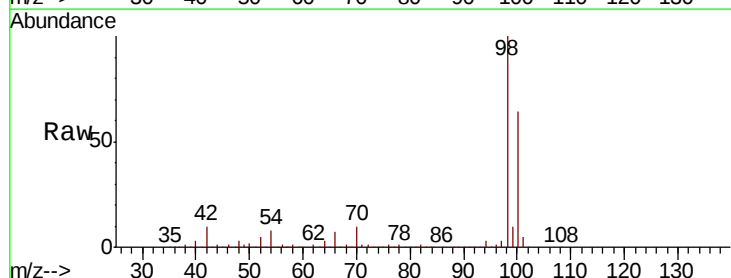


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

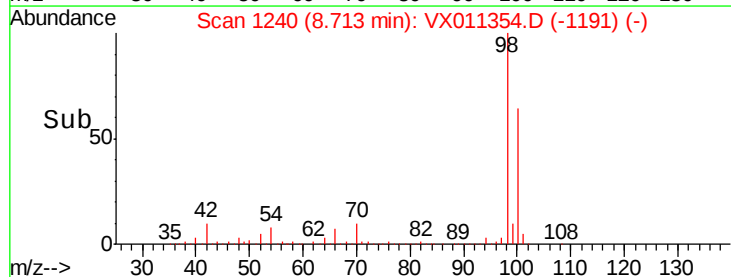
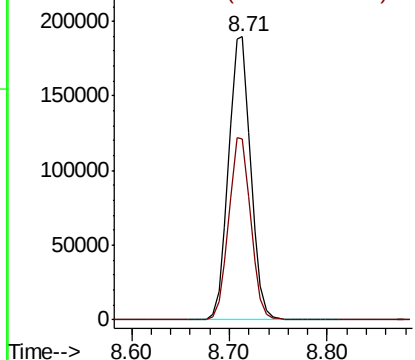


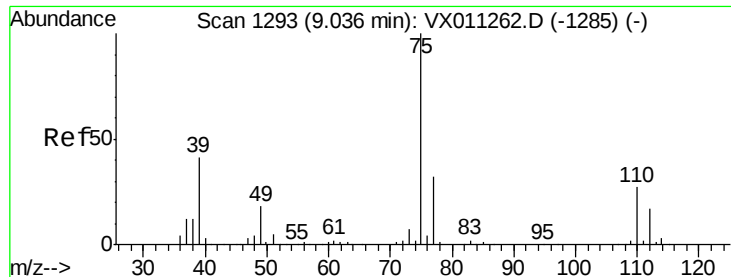
#50  
Toluene-d8  
Concen: 49.096 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Tgt Ion: 98 Resp: 297688  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.7 77.5



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

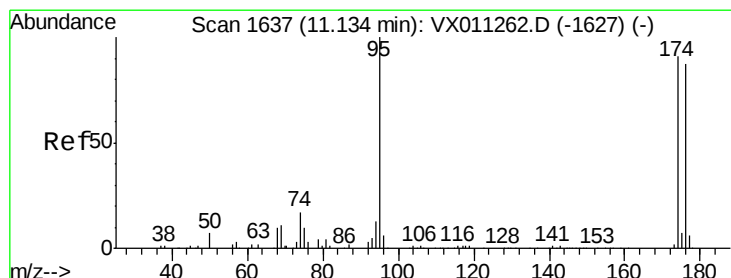
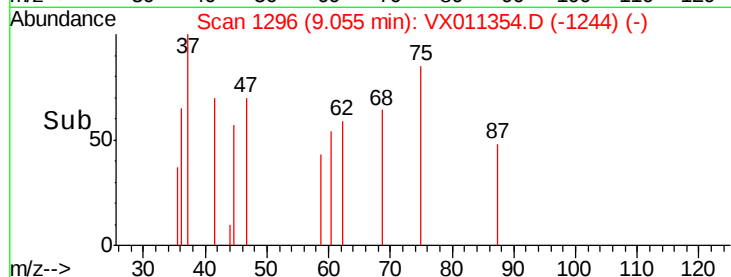
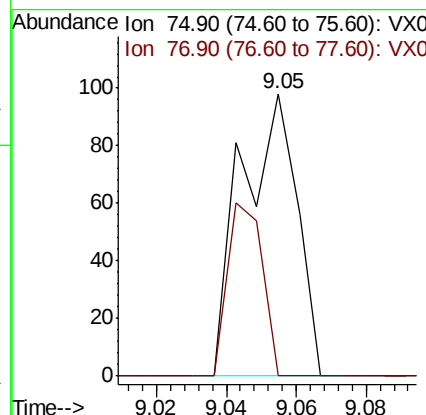
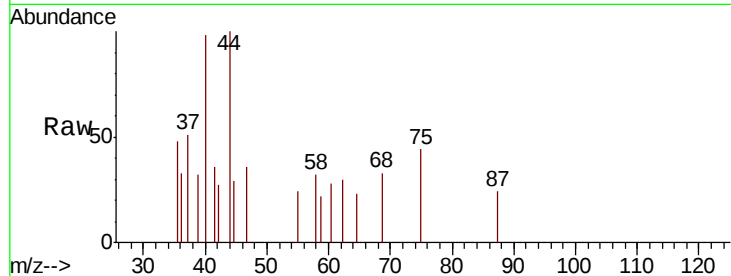




#53  
t-1,3-Dichloropropene  
Concen: 2.881 ug/l  
RT: 9.05 min Scan# 1296  
Delta R.T. 0.02 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

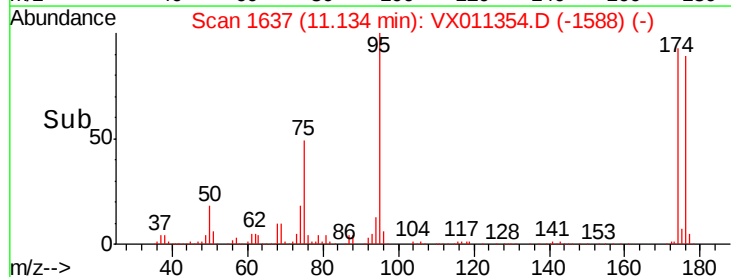
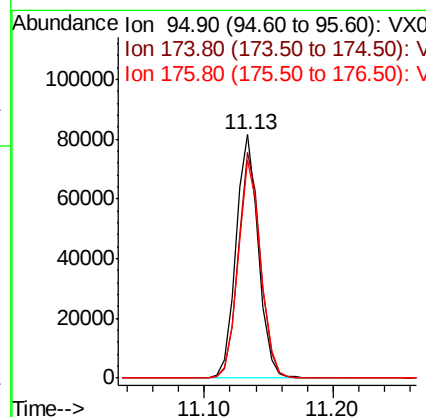
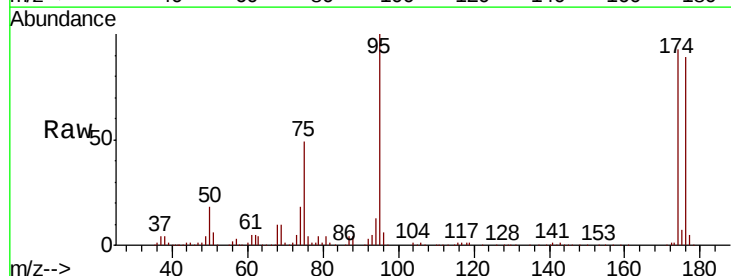
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

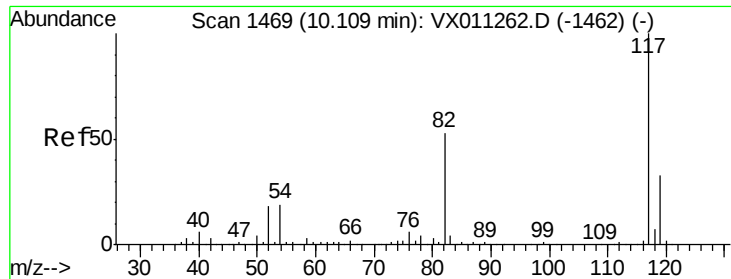
Tgt Ion: 75 Resp: 108  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.0#



#62  
4-Bromofluorobenzene  
Concen: 45.806 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Tgt Ion: 95 Resp: 99161  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 191.2  
176 89.7 0.0 184.8

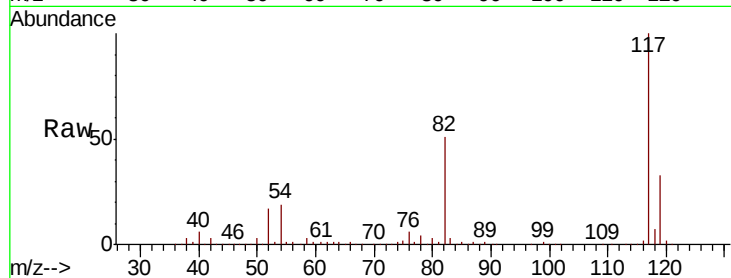




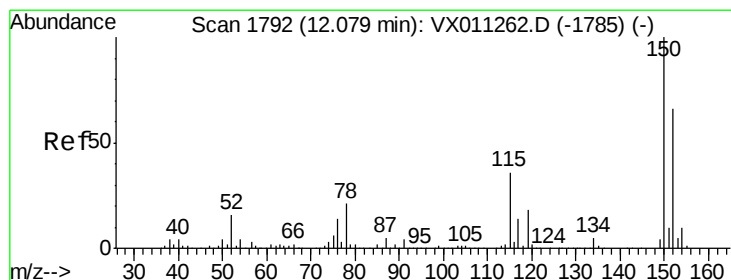
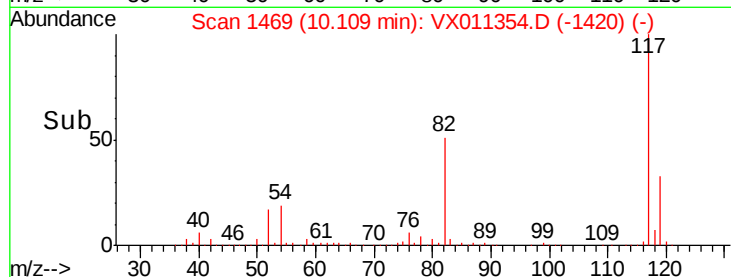
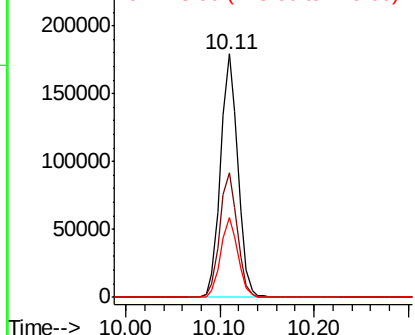
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807WBL01

Tgt Ion:117 Resp: 229378  
Ion Ratio Lower Upper  
117 100  
82 51.3 42.2 63.2  
119 32.6 26.6 39.8

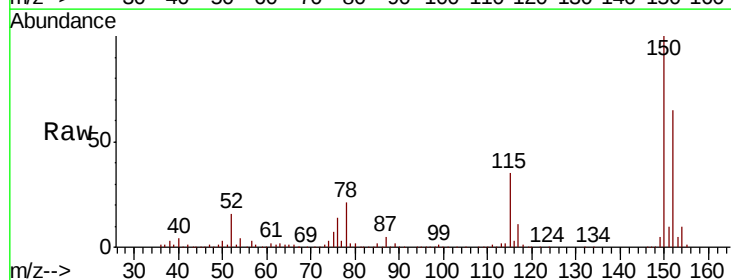


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

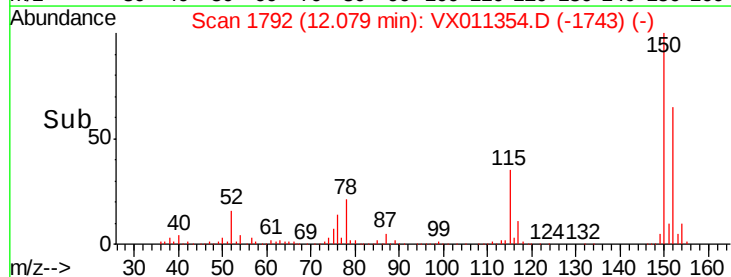
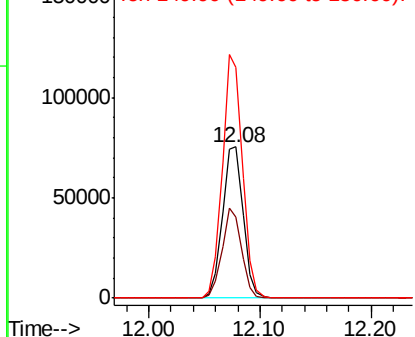


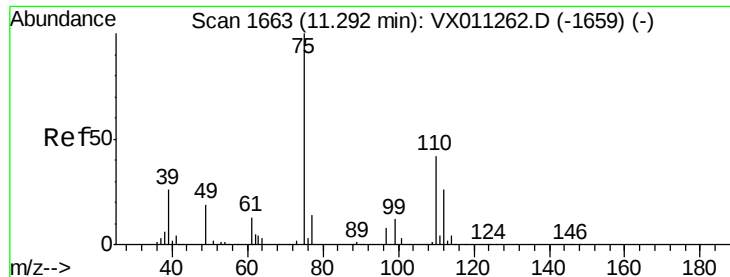
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX011354.D  
Acq: 07 Aug 2019 11:29

Tgt Ion:152 Resp: 96852  
Ion Ratio Lower Upper  
152 100  
115 56.0 40.0 119.9  
150 156.8 0.0 350.4



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

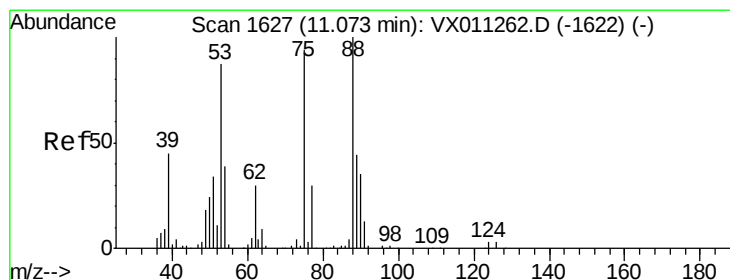
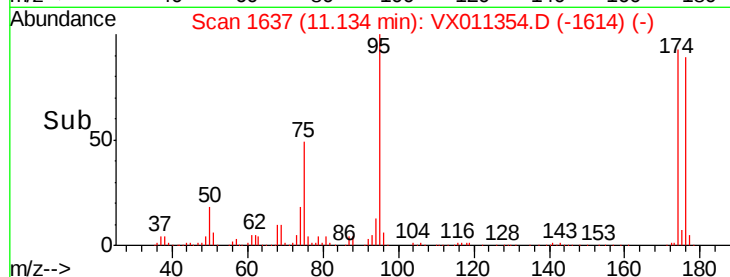
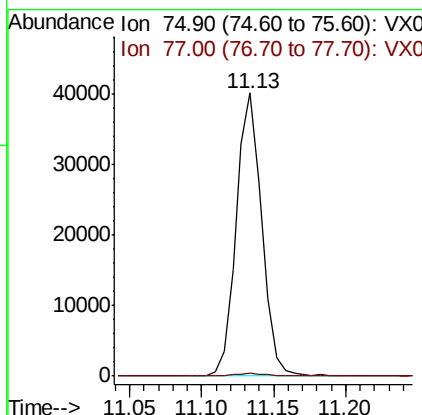
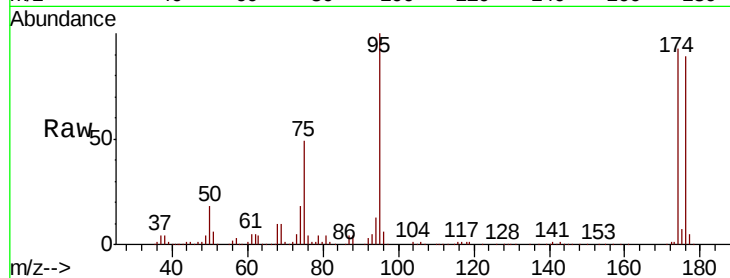




#76  
 1,2,3-Trichloropropane  
 Concen: 28.062 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX011354.D  
 Acq: 07 Aug 2019 11:29

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0807WBL01

Tgt Ion: 75 Resp: 49495  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 21.1 63.4#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.675 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX011354.D  
 Acq: 07 Aug 2019 11:29

Tgt Ion: 75 Resp: 49495  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 78.2 117.4#  
 89 0.1 37.9 56.9#

