

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041520\  
 Data File : VX015687.D  
 Acq On : 15 Apr 2020 16:45  
 Operator : JC/SP  
 Sample : L2233-14  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW110-200408

Quant Time: Apr 16 05:55:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 1097972  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1674705  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1632250  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 896794   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 662666   | 42.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.58%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 509036   | 47.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.10%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 1980274  | 50.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.48% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 840928   | 52.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.00% |          |

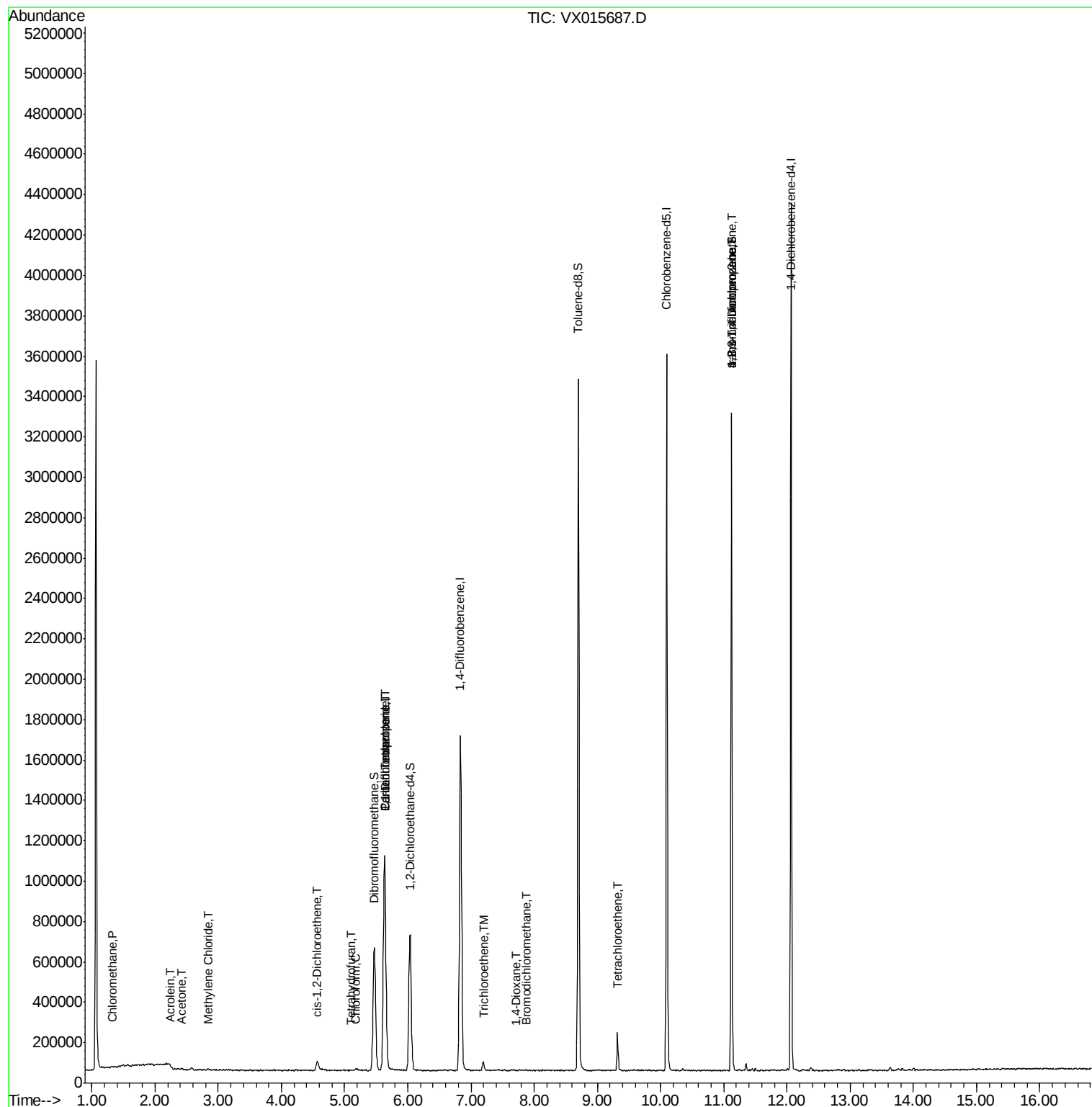
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 3867     | 0.314     | ug/l # | 84     |
| 5) Bromomethane                | 1.64  | 94   | 1240     | Below Cal | #      | 48     |
| 13) Acrolein                   | 2.25  | 56   | 1345     | 0.637     | ug/l   | 91     |
| 16) Acetone                    | 2.42  | 43   | 7012     | 1.054     | ug/l # | 89     |
| 20) Methylene Chloride         | 2.84  | 84   | 3904     | 0.314     | ug/l # | 72     |
| 27) cis-1,2-Dichloroethene     | 4.58  | 96   | 32485    | 2.441     | ug/l   | 89     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 2172     | 0.316     | ug/l # | 37     |
| 30) Chloroform                 | 5.19  | 83   | 11922    | 0.548     | ug/l   | 91     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 75807    | 4.913     | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 98416    | 5.889     | ug/l # | 16     |
| 44) Trichloroethene            | 7.20  | 130  | 19644    | 1.594     | ug/l   | 84     |
| 47) Bromodichloromethane       | 7.87  | 83   | 3998     | 0.231     | ug/l # | 76     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 862      | 2.728     | ug/l # | 38     |
| 64) Tetrachloroethene          | 9.32  | 164  | 37242    | 3.023     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 421816   | 22.873    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 421816   | 54.882    | ug/l # | 10     |

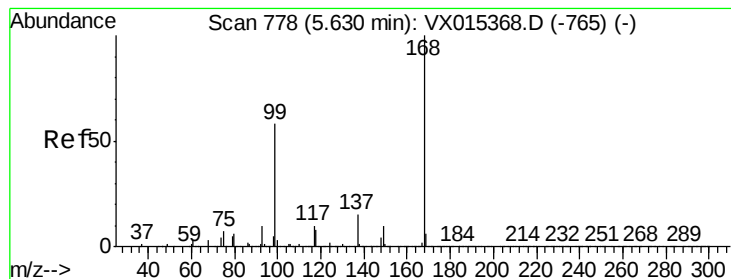
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041520\  
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Instrument :  
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SS037MW110-200408

Quant Time: Apr 16 05:55:00 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

Instrument :

MSVOA\_X

ClientSampleId :

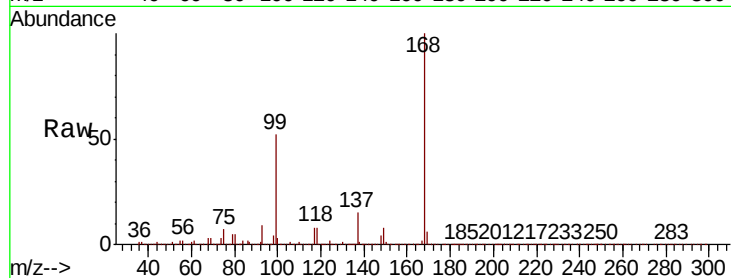
SS037MW110-200408

Tot Ion:168 Resp: 1097972

Ion Ratio Lower Upper

168 100

99 51.6 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

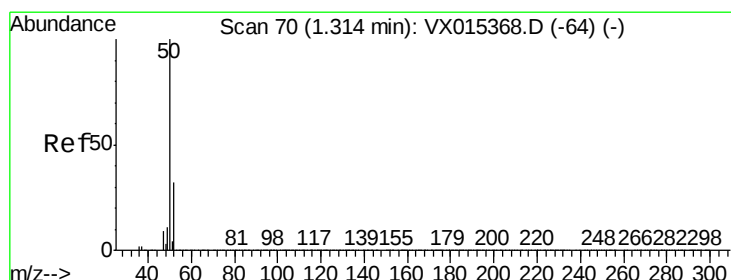
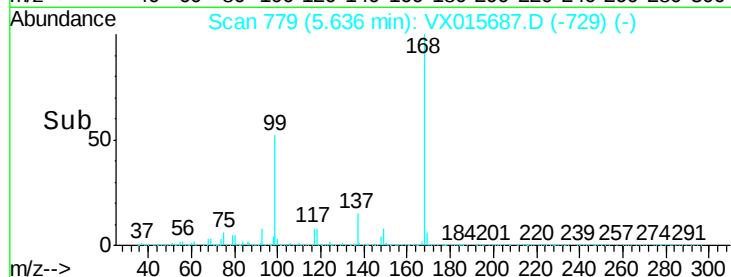
200000

100000

0

Time-->

5.50 5.60 5.70



#3

Chloromethane

Concen: 0.314 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX015687.D

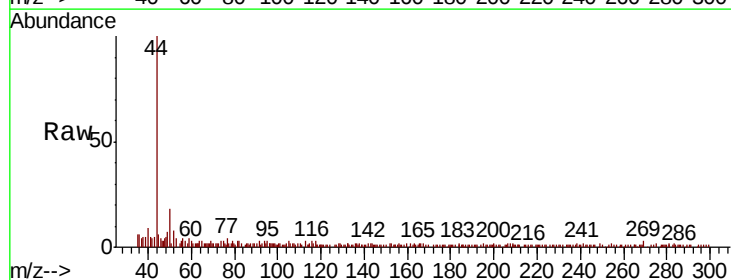
Acq: 15 Apr 2020 16:45

Tgt Ion: 50 Resp: 3867

Ion Ratio Lower Upper

50 100

52 22.6 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

2500

2000

1500

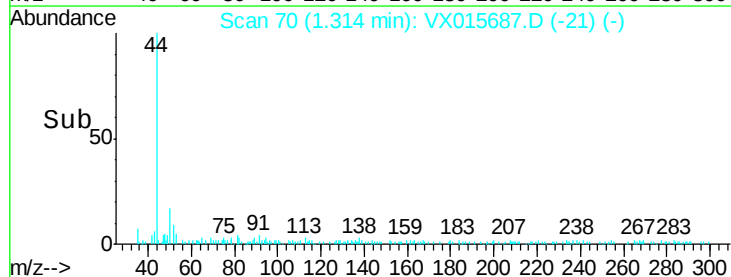
1000

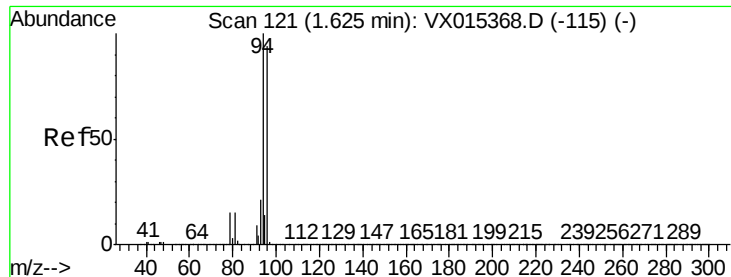
500

0

Time-->

1.25 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

Instrument :

MSVOA\_X

ClientSampleId :

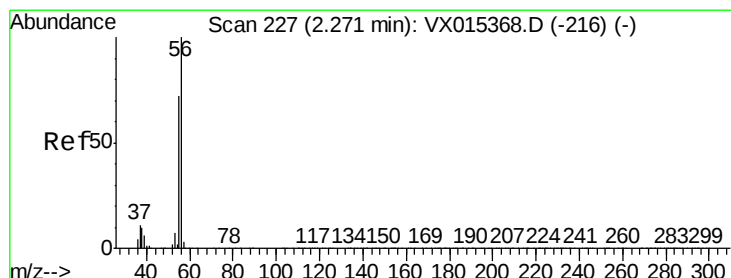
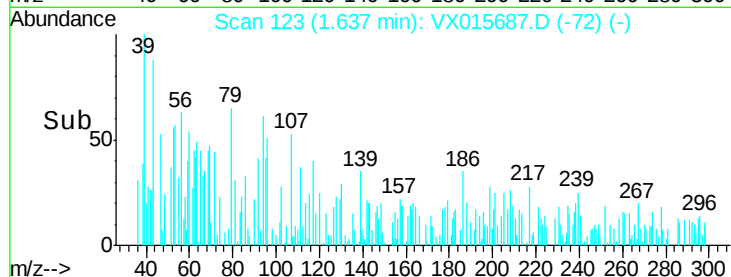
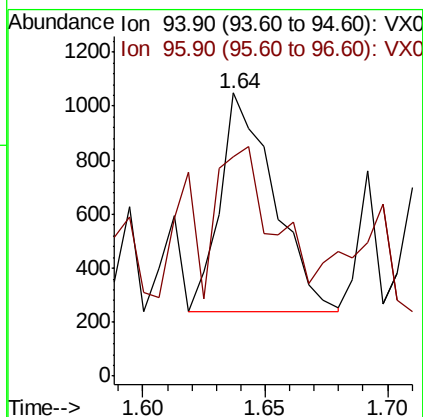
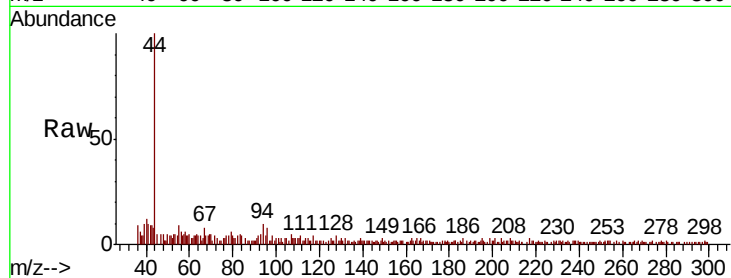
SS037MW110-200408

Tot Ion: 94 Resp: 1240

Ion Ratio Lower Upper

94 100

96 43.4 74.8 112.2#



#13

Acrolein

Concen: 0.637 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.02 min

Lab File: VX015687.D

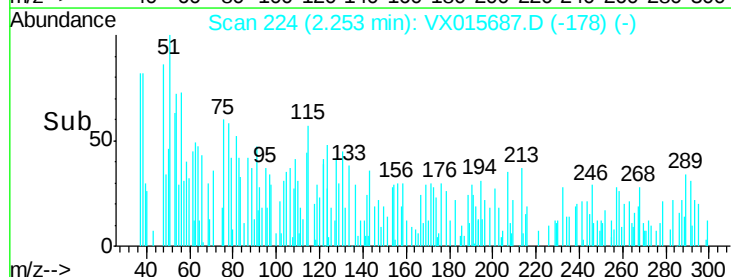
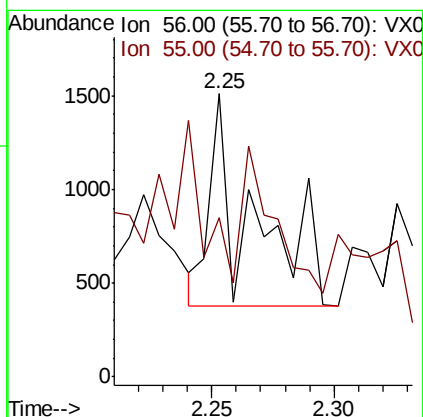
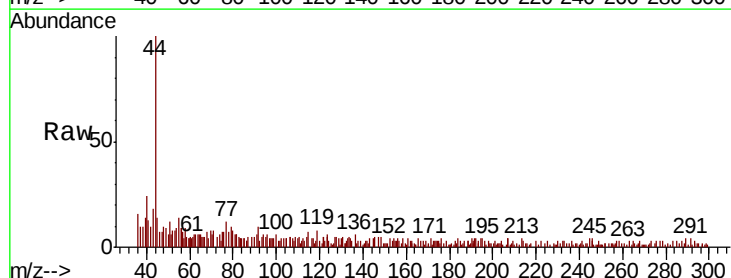
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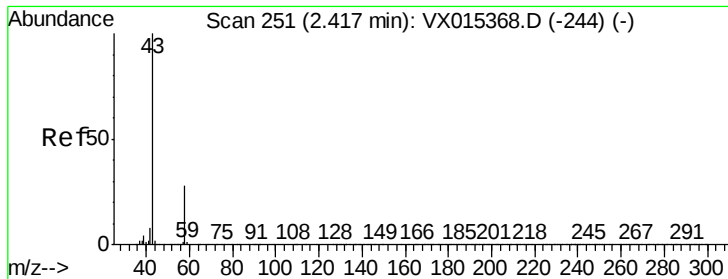
Tgt Ion: 56 Resp: 1345

Ion Ratio Lower Upper

56 100

55 63.6 57.0 85.4

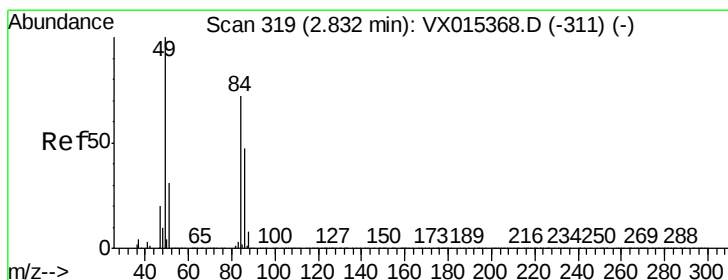
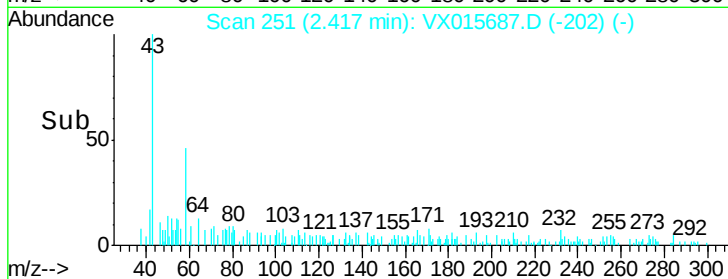
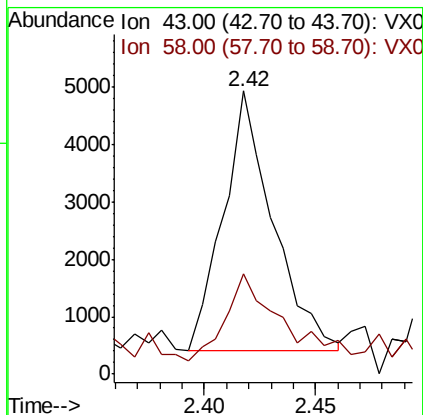
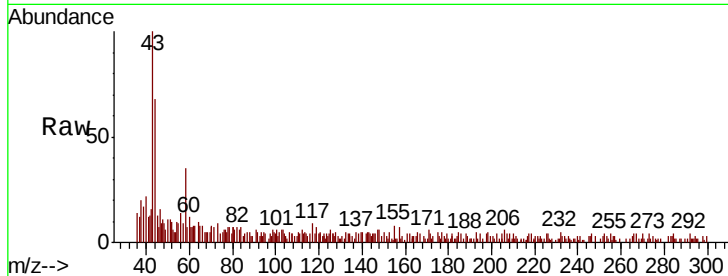




#16  
Acetone  
Concen: 1.054 ug/l  
RT: 2.42 min Scan# 251  
Delta R.T. 0.00 min  
Lab File: VX015687.D  
Acq: 15 Apr 2020 16:45

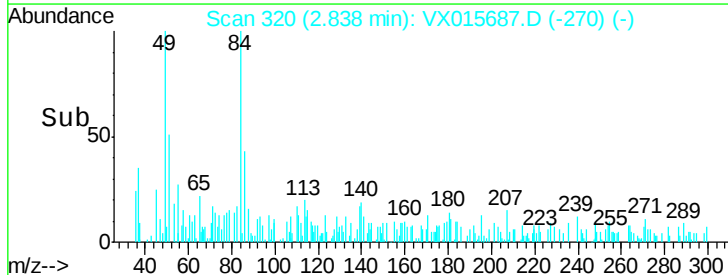
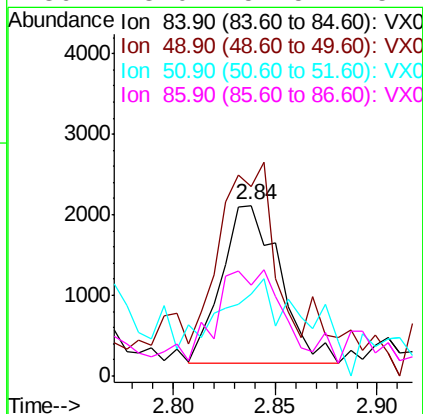
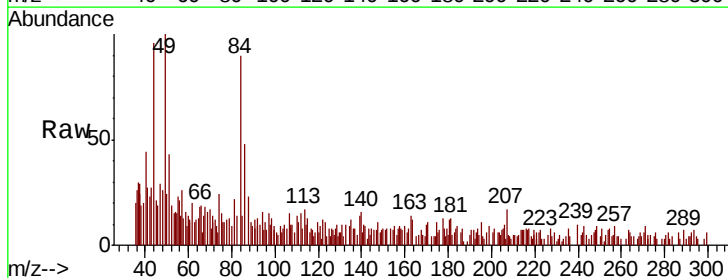
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW110-200408

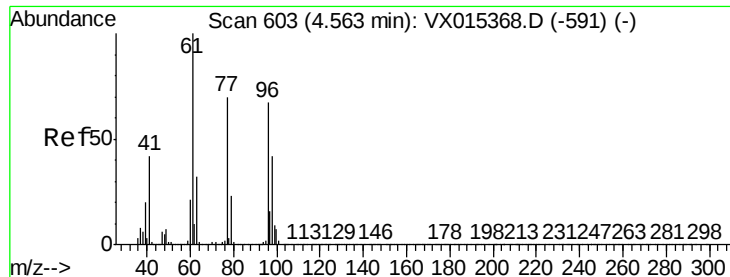
Tot Ion: 43 Resp: 7012  
Ion Ratio Lower Upper  
43 100  
58 33.4 22.1 33.1#



#20  
Methylene Chloride  
Concen: 0.314 ug/l  
RT: 2.84 min Scan# 320  
Delta R.T. 0.01 min  
Lab File: VX015687.D  
Acq: 15 Apr 2020 16:45

Tgt Ion: 84 Resp: 3904  
Ion Ratio Lower Upper  
84 100  
49 99.0 111.3 166.9#  
51 30.0 34.0 51.0#  
86 48.0 52.5 78.7#



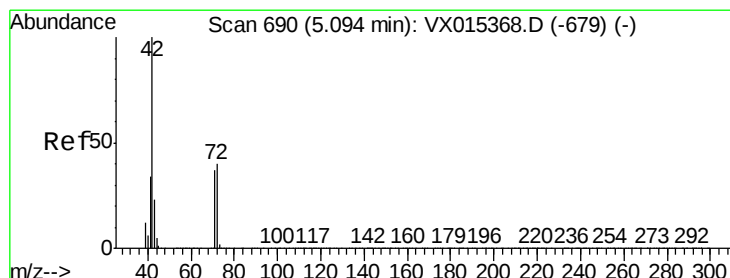
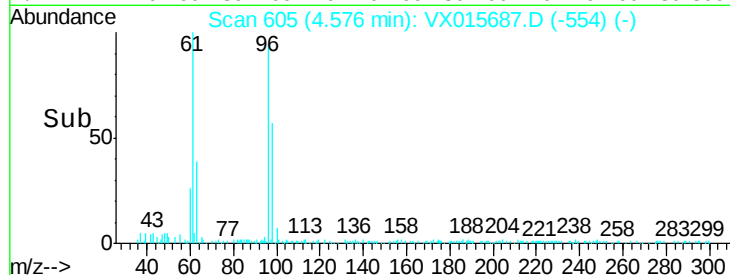
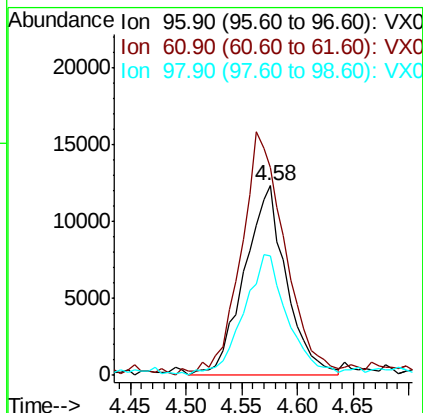
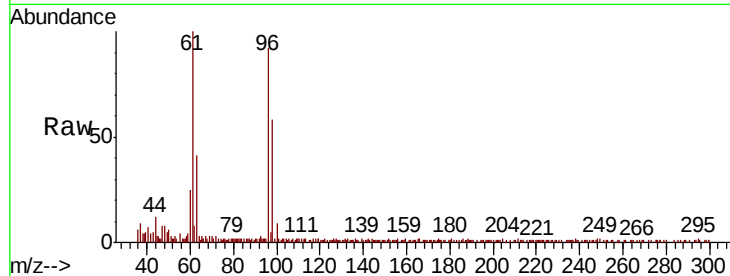


#27

cis-1,2-Dichloroethene  
 Concen: 2.441 ug/l  
 RT: 4.58 min Scan# 605  
 Delta R.T. 0.01 min  
 Lab File: VX015687.D  
 Acq: 15 Apr 2020 16:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW110-200408

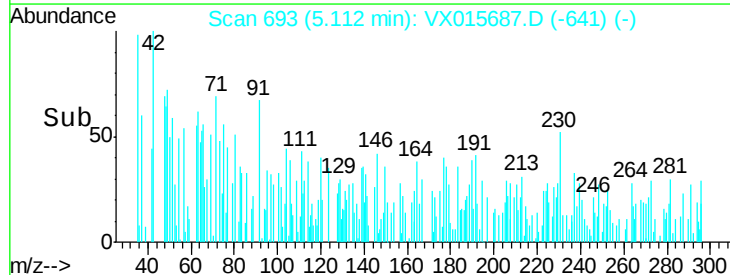
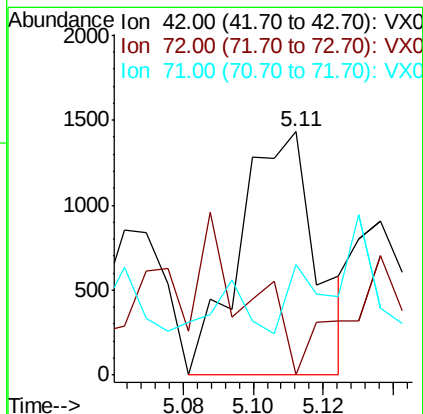
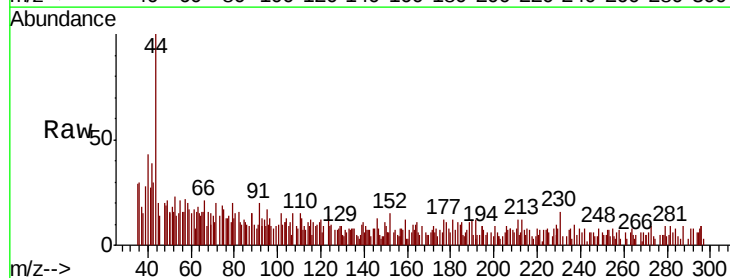
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 134.4 | 0.0   | 308.4 |
| 98      | 66.2  | 0.0   | 129.2 |

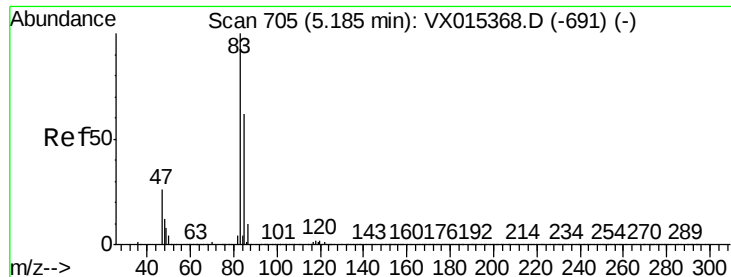


#29

Tetrahydrofuran  
 Concen: 0.316 ug/l  
 RT: 5.11 min Scan# 693  
 Delta R.T. 0.02 min  
 Lab File: VX015687.D  
 Acq: 15 Apr 2020 16:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 31.7  | 47.5# |
| 71      | 0.0   | 29.6  | 44.4# |

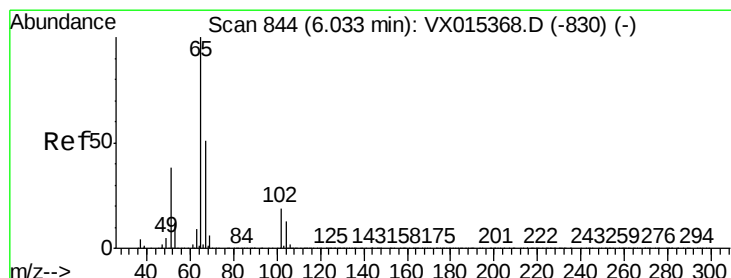
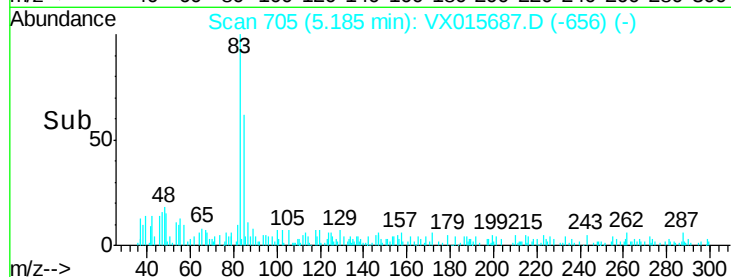
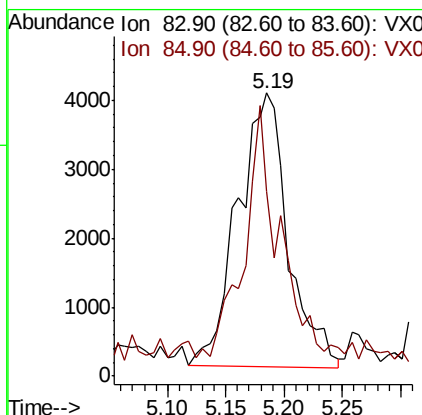
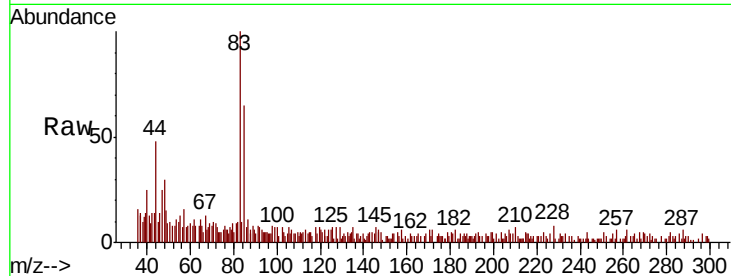




#30  
Chloroform  
Concen: 0.548 ug/l  
RT: 5.19 min Scan# 705  
Delta R.T. 0.00 min  
Lab File: VX015687.D  
Acq: 15 Apr 2020 16:45

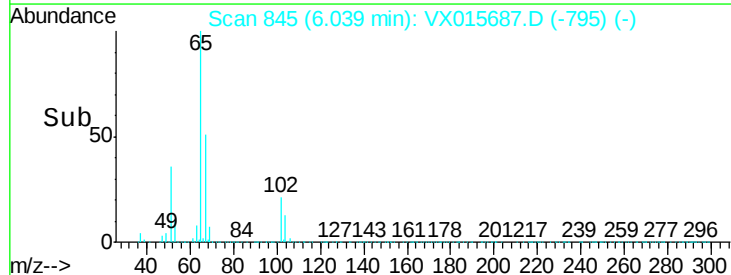
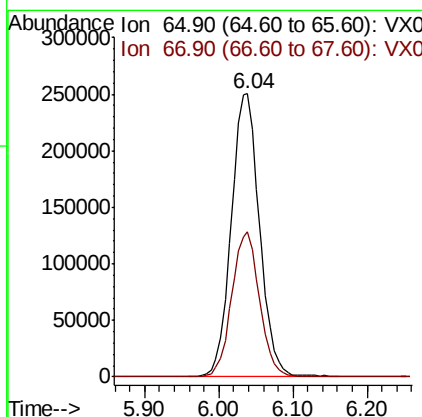
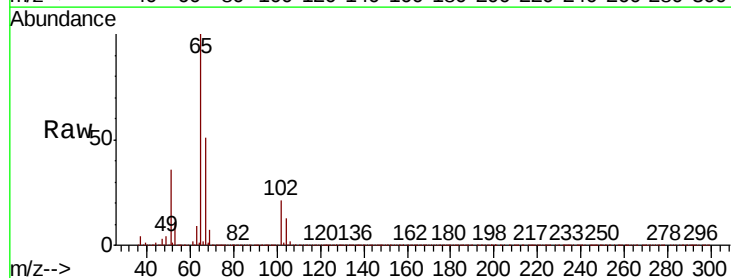
Instrument :  
MSVOA\_X  
ClientSampleId :  
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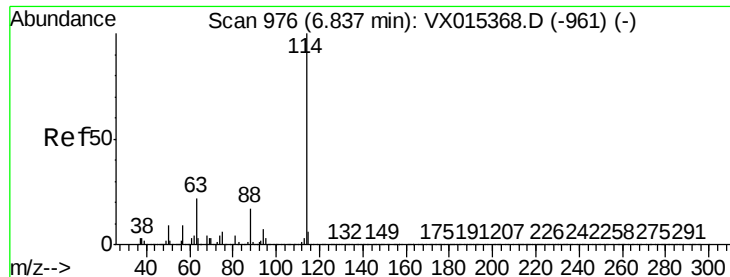
Tot Ion: 83 Resp: 11922  
Ion Ratio Lower Upper  
83 100  
85 54.9 49.5 74.3



#33  
1,2-Dichloroethane-d4  
Concen: 42.792 ug/l  
RT: 6.04 min Scan# 845  
Delta R.T. 0.01 min  
Lab File: VX015687.D  
Acq: 15 Apr 2020 16:45

Tgt Ion: 65 Resp: 662666  
Ion Ratio Lower Upper  
65 100  
67 50.2 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

Instrument :

MSVOA\_X

ClientSampleId :

SS037MW110-200408

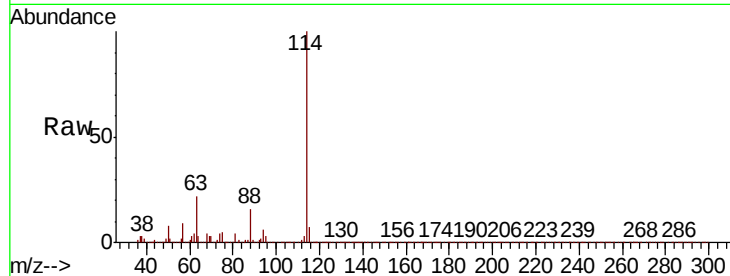
Tot Ion:114 Resp: 1674705

Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.2

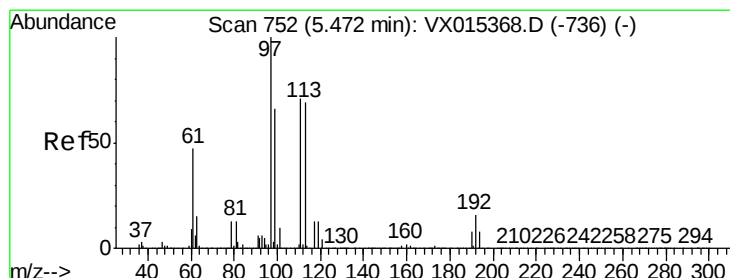
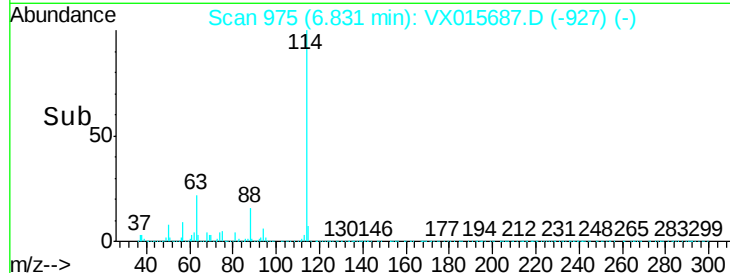
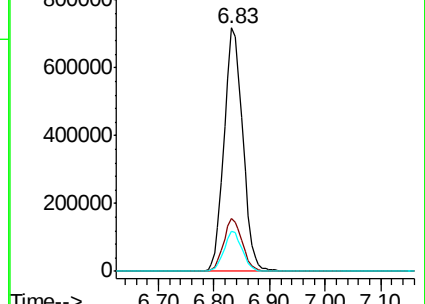
88 16.2 0.0 33.8



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: 47.550 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

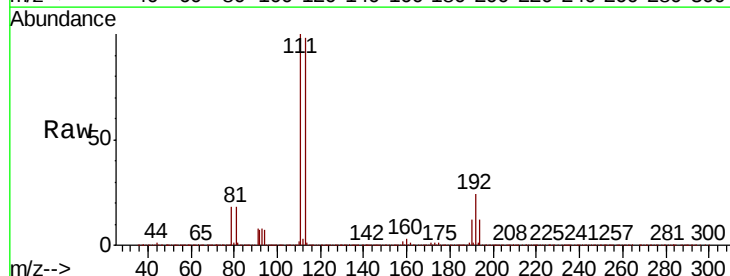
Tgt Ion:113 Resp: 509036

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

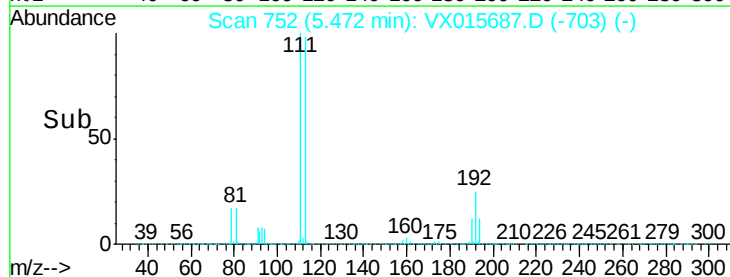
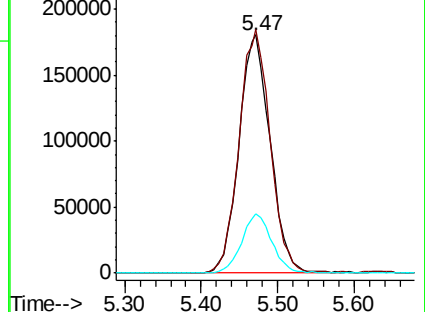
192 24.0 17.8 26.6

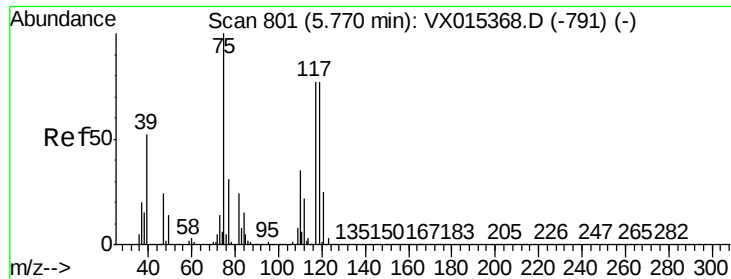


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

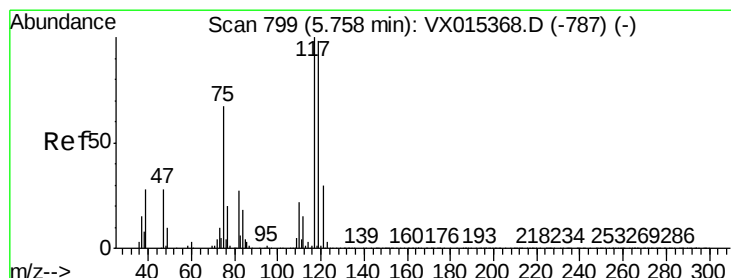
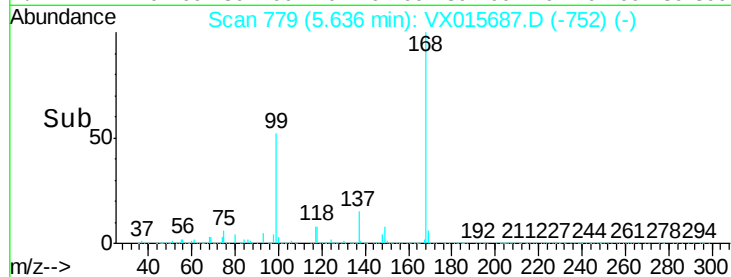
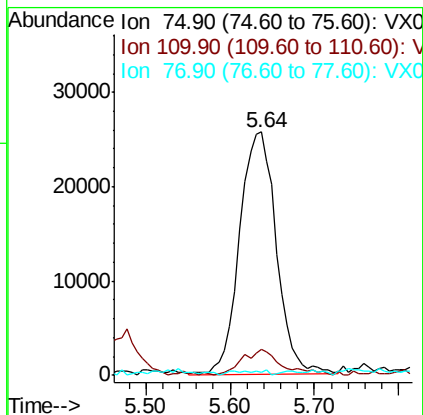
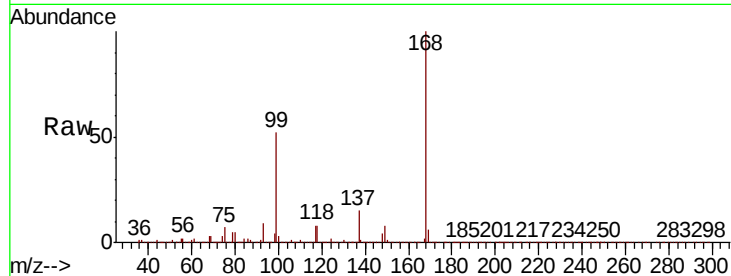




#36  
 1,1-Dichloropropene  
 Concen: 4.913 ug/l  
 RT: 5.64 min Scan# 779  
 Delta R.T. -0.13 min  
 Lab File: VX015687.D  
 Acq: 15 Apr 2020 16:45

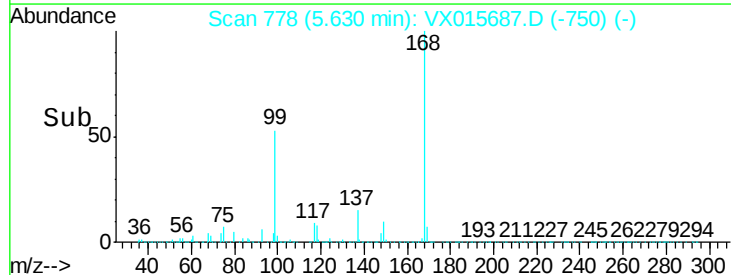
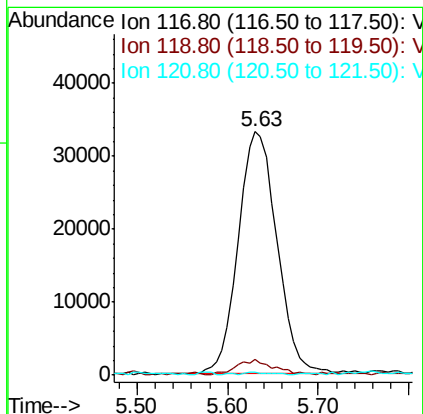
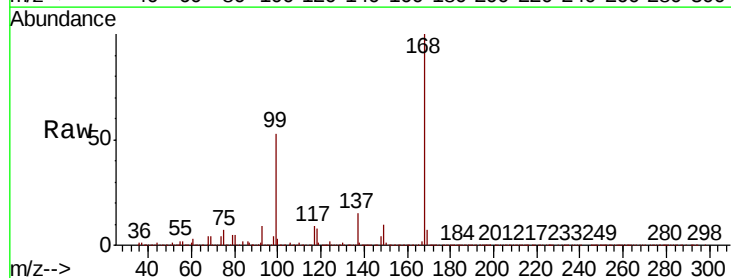
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW110-200408

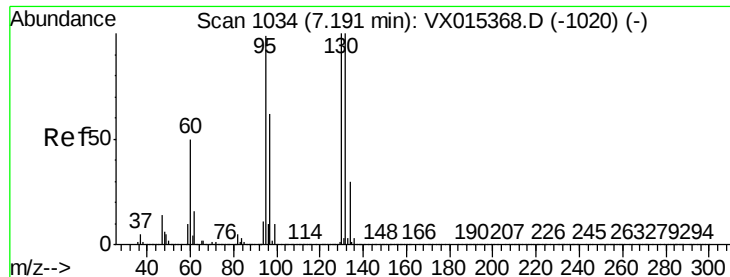
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.5  | 17.1  | 51.3# |
| 77      | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.889 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.13 min  
 Lab File: VX015687.D  
 Acq: 15 Apr 2020 16:45

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.8   | 78.0  | 117.0# |
| 121     | 1.0   | 23.8  | 35.8#  |





#44

Trichloroethene

Concen: 1.594 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. 0.01 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

Instrument :

MSVOA\_X

ClientSampleId :

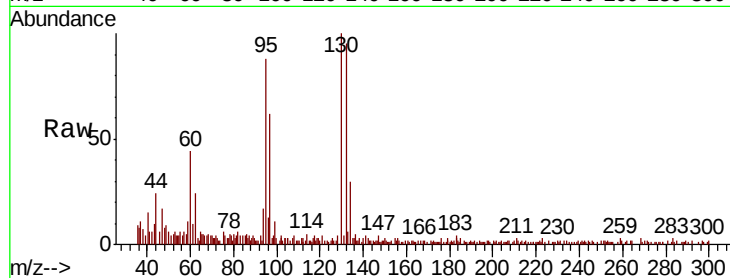
SS037MW110-200408

Tot Ion:130 Resp: 19644

Ion Ratio Lower Upper

130 100

95 83.6 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

8000

6000

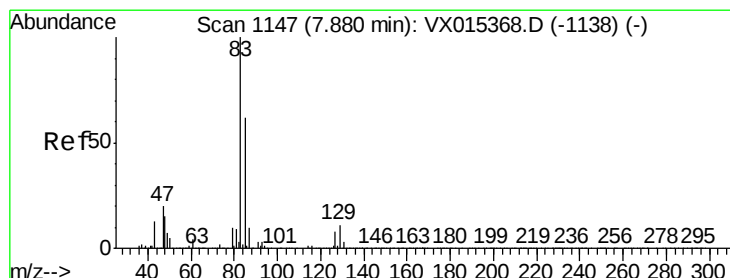
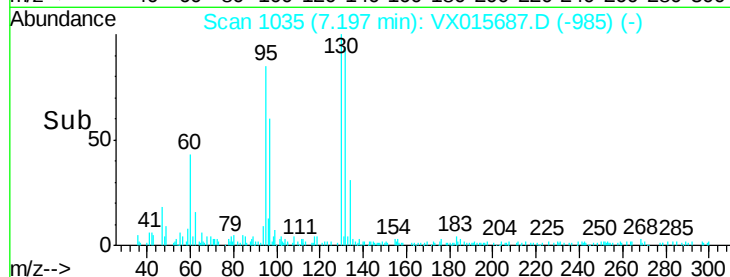
4000

2000

0

Time-->

7.10 7.20



#47

Bromodichloromethane

Concen: 0.231 ug/l

RT: 7.87 min Scan# 1146

Delta R.T. -0.01 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

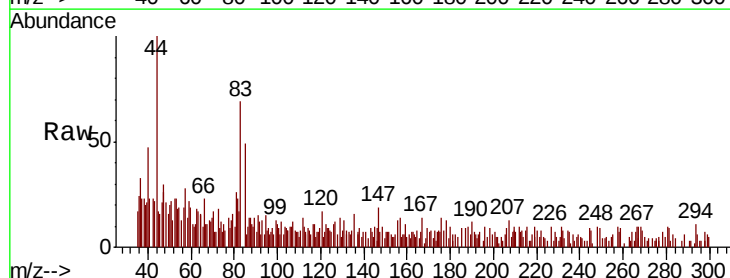
Tgt Ion: 83 Resp: 3998

Ion Ratio Lower Upper

83 100

85 44.1 49.7 74.5#

127 17.8 6.7 10.1#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

2000

1500

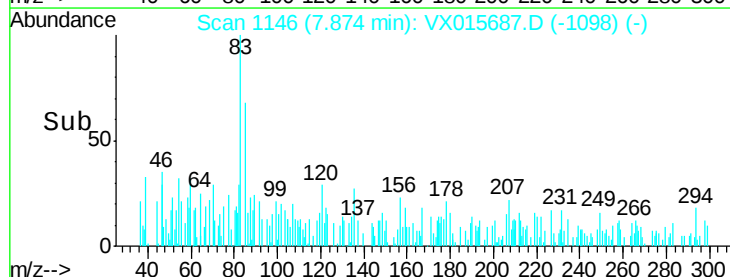
1000

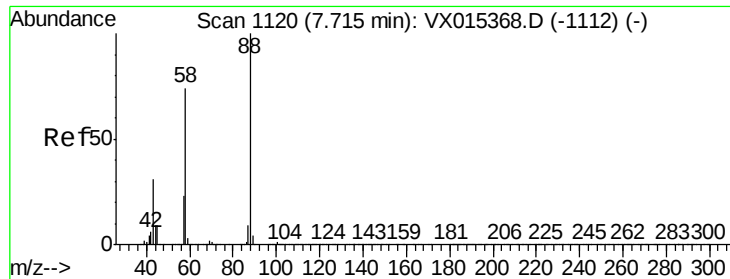
500

0

Time-->

7.85 7.90 7.95





#49

1,4-Dioxane

Concen: 2.728 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

Instrument :

MSVOA\_X

ClientSampleId :

SS037MW110-200408

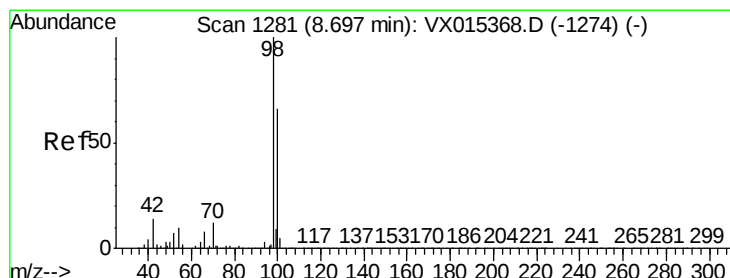
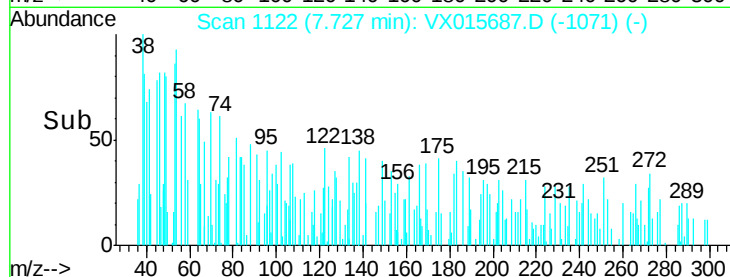
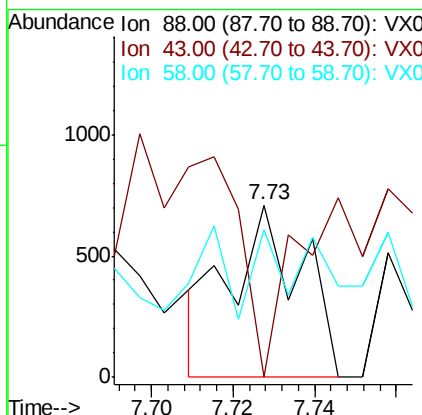
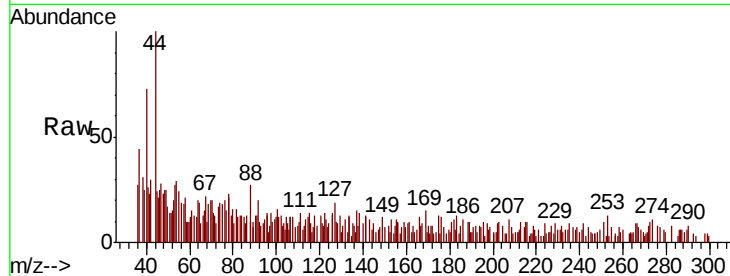
Tot Ion: 88 Resp: 862

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 22.6 60.6 90.8#



#50

Toluene-d8

Concen: 50.243 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015687.D

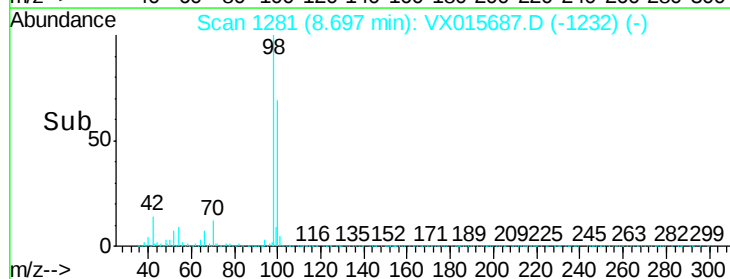
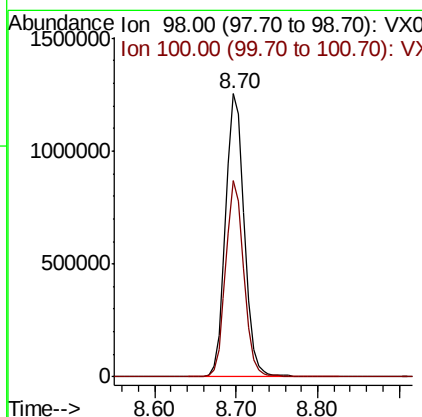
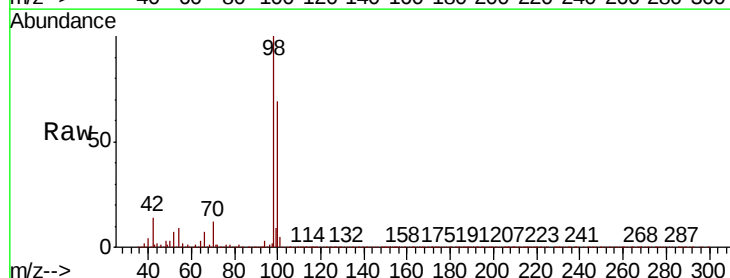
Acq: 15 Apr 2020 16:45

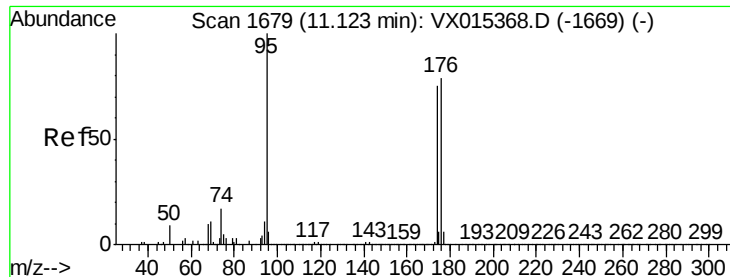
Tgt Ion: 98 Resp: 1980274

Ion Ratio Lower Upper

98 100

100 67.5 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 52.500 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

Instrument :

MSVOA\_X

ClientSampleId :

SS037MW110-200408

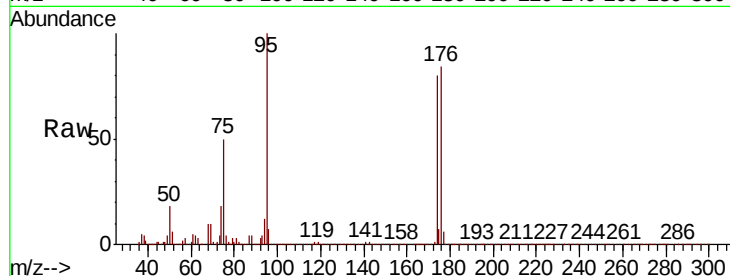
Tot Ion: 95 Resp: 840928

Ion Ratio Lower Upper

95 100

174 85.2 0.0 158.6

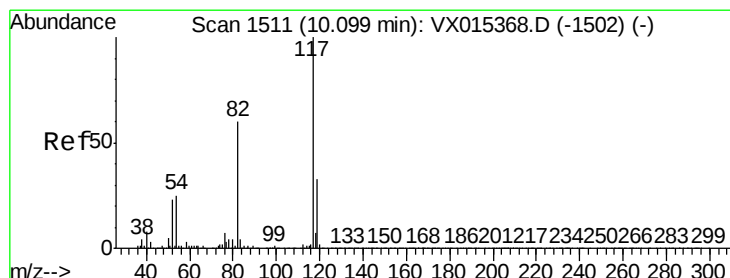
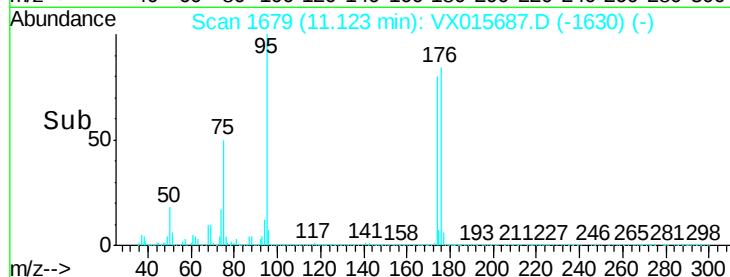
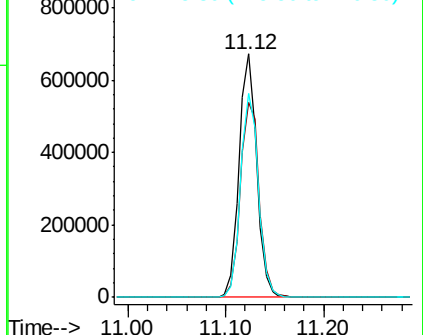
176 84.8 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015687.D

Acq: 15 Apr 2020 16:45

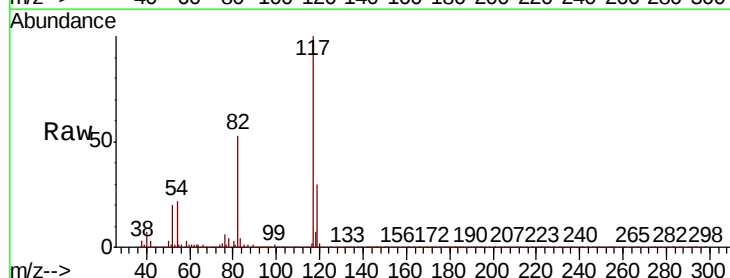
Tgt Ion: 117 Resp: 1632250

Ion Ratio Lower Upper

117 100

82 52.6 47.8 71.8

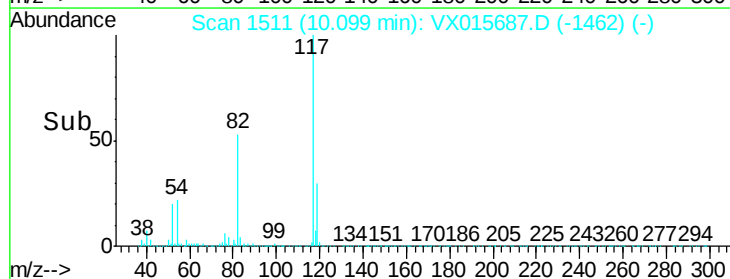
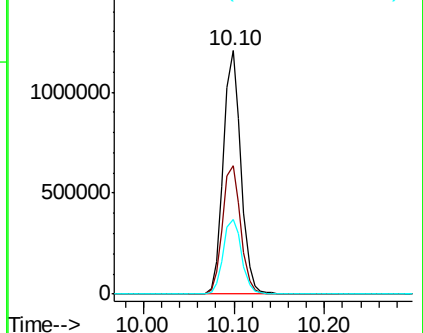
119 30.4 26.8 40.2

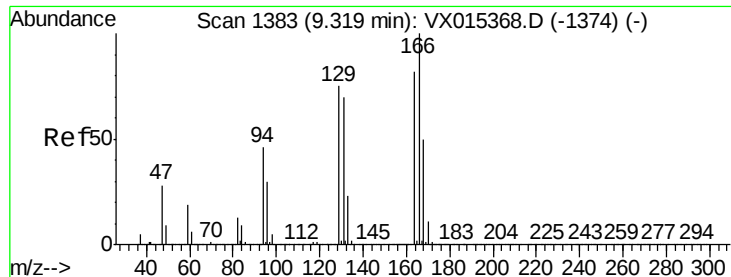


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

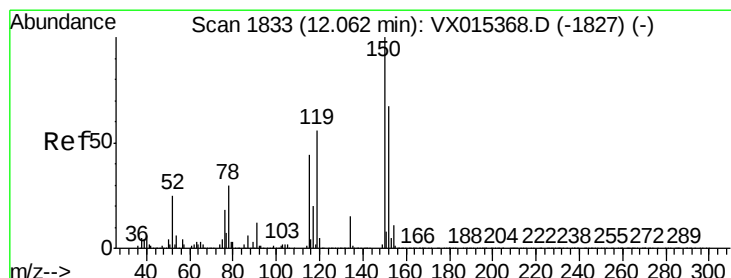
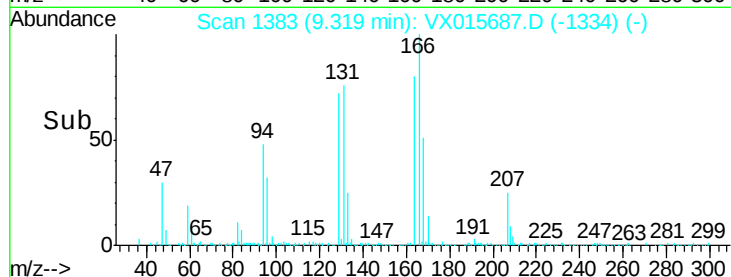
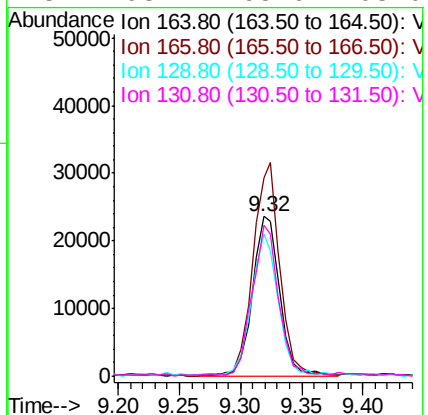
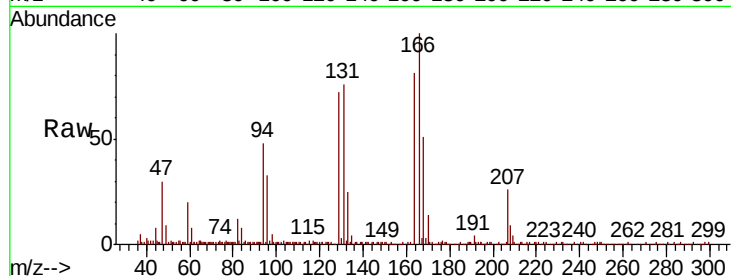




#64  
Tetrachloroethene  
Concen: 3.023 ug/l  
RT: 9.32 min Scan# 1383  
Delta R.T. 0.00 min  
Lab File: VX015687.D  
Acq: 15 Apr 2020 16:45

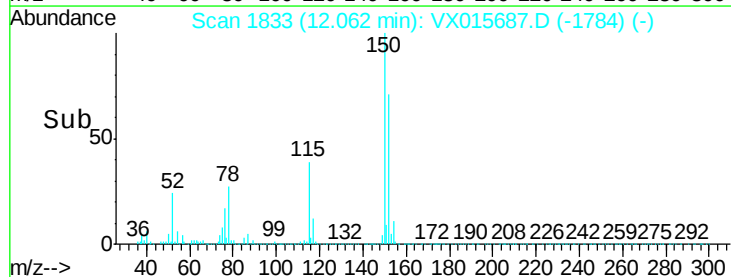
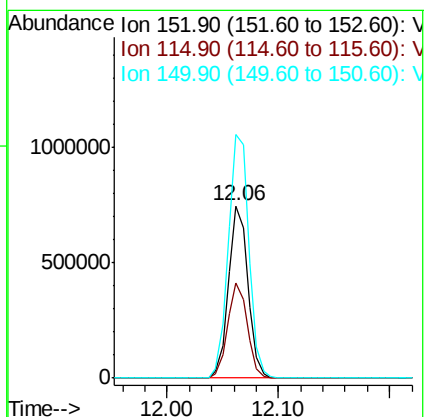
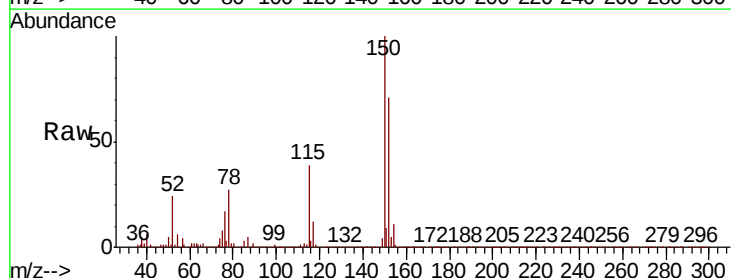
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW110-200408

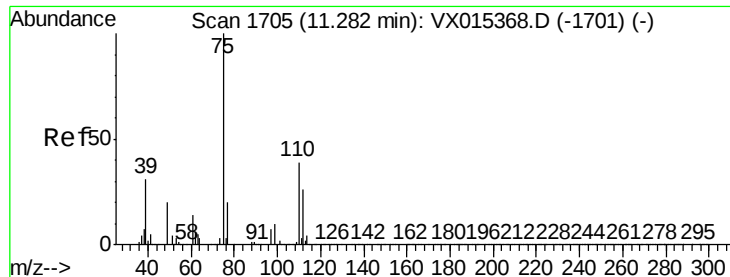
Tot Ion:164 Resp: 37242  
Ion Ratio Lower Upper  
164 100  
166 123.5 97.8 146.6  
129 88.0 73.0 109.4  
131 93.4 68.6 103.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. 0.00 min  
Lab File: VX015687.D  
Acq: 15 Apr 2020 16:45

Tgt Ion:152 Resp: 896794  
Ion Ratio Lower Upper  
152 100  
115 55.7 39.0 116.9  
150 150.1 0.0 340.8

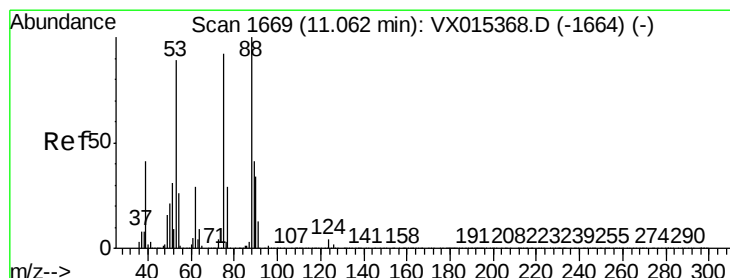
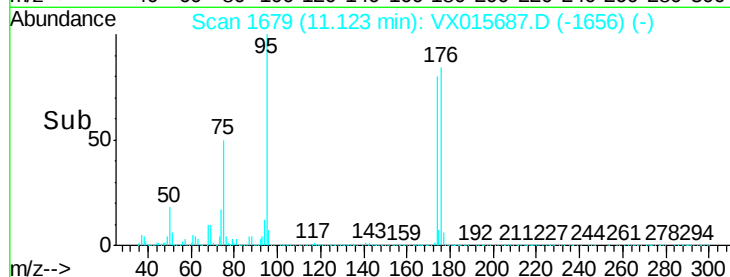
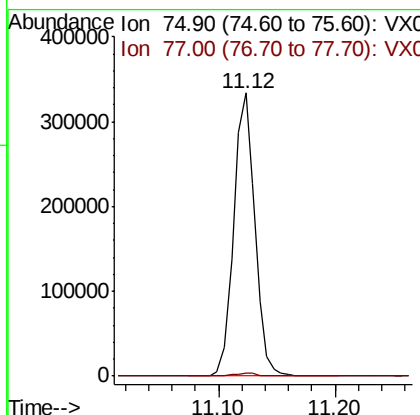
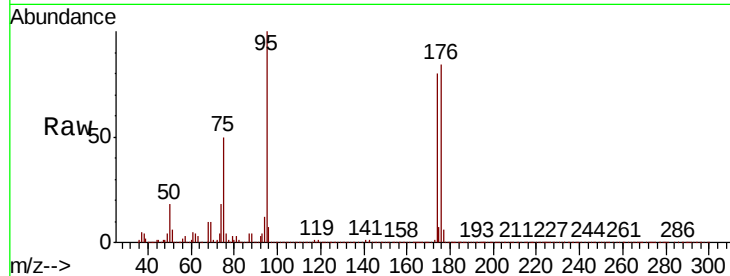




#76  
 1,2,3-Trichloropropane  
 Concen: 22.873 ug/l  
 RT: 11.12 min Scan# 1679  
 Delta R.T. -0.16 min  
 Lab File: VX015687.D  
 Acq: 15 Apr 2020 16:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW110-200408

Tot Ion: 75 Resp: 421816  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 21.2 63.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 54.882 ug/l  
 RT: 11.12 min Scan# 1679  
 Delta R.T. 0.06 min  
 Lab File: VX015687.D  
 Acq: 15 Apr 2020 16:45

Tgt Ion: 75 Resp: 421816  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 80.1 120.1#  
 89 0.0 36.1 54.1#

