

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040120\  
 Data File : VX015461.D  
 Acq On : 01 Apr 2020 12:13  
 Operator : JC/SP  
 Sample : VX0401MBL01  
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 02 09:05:51 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  | 1150469  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1851667  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1755934  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 866851   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 779331   | 48.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.06%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 588140   | 49.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.38%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 2231919  | 51.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.44% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 933717   | 52.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.44% |          |

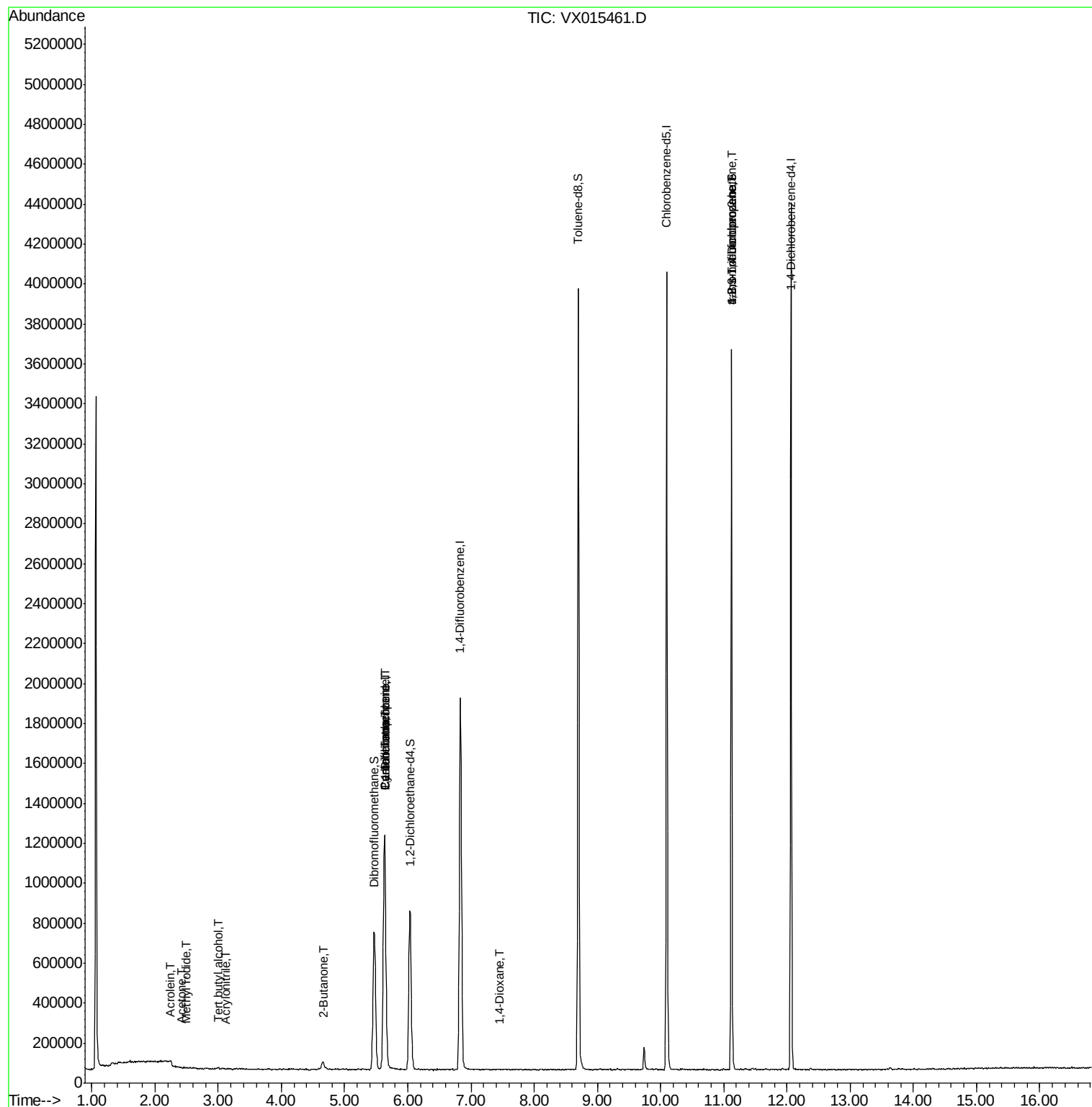
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 2071     | Below Cal | #      | 57     |
| 10) Methyl Iodide              | 2.50  | 142  | 3863     | 0.277     | ug/l # | 72     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 8280     | 2.132     | ug/l # | 80     |
| 13) Acrolein                   | 2.24  | 56   | 571      | 0.258     | ug/l # | 1      |
| 15) Acrylonitrile              | 3.12  | 53   | 1536     | 0.207     | ug/l   | 90     |
| 16) Acetone                    | 2.43  | 43   | 1660     | 0.238     | ug/l # | 81     |
| 25) 2-Butanone                 | 4.65  | 43   | 2371     | 0.211     | ug/l   | 98     |
| 31) Cyclohexane                | 5.63  | 56   | 24263    | 1.181     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 92377    | 5.414     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 112500   | 6.088     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.45  | 88   | 768      | 2.198     | ug/l   | 87     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 468528   | 26.283    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 468528   | 63.066    | ug/l # | 10     |

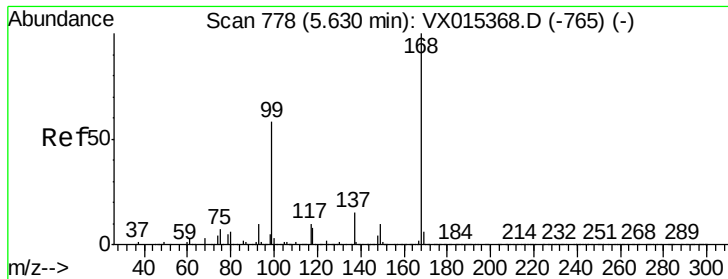
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040120\  
Data File : VX015461.D  
Acq On : 01 Apr 2020 12:13  
Operator : JC/SP  
Sample : VX0401MBL01  
Misc : 5.0µL/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Apr 02 09:05:51 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: VX015461.D

Acq: 01 Apr 2020 12:13

Instrument :

MSVOA\_X

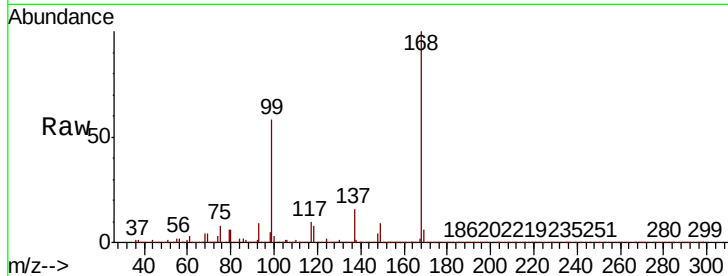
ClientSampleId :

Tot Ion:168 Resp: 1150469

Ion Ratio Lower Upper

168 100

99 58.3 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

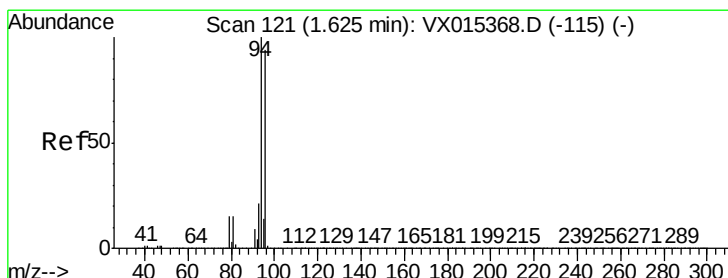
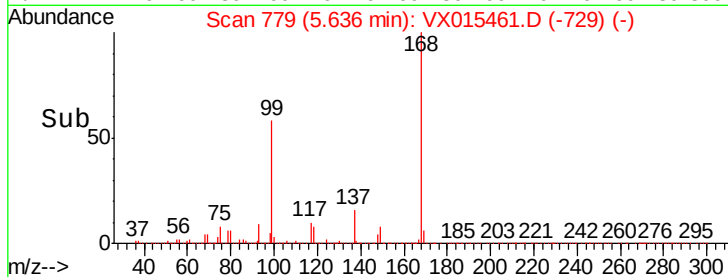
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015461.D

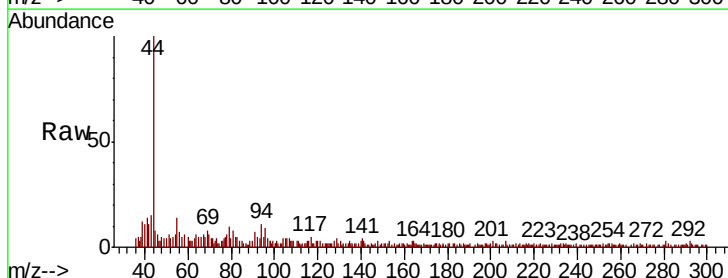
Acq: 01 Apr 2020 12:13

Tgt Ion: 94 Resp: 2071

Ion Ratio Lower Upper

94 100

96 52.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

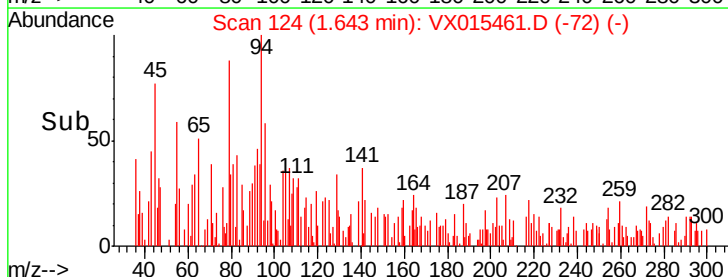
1000

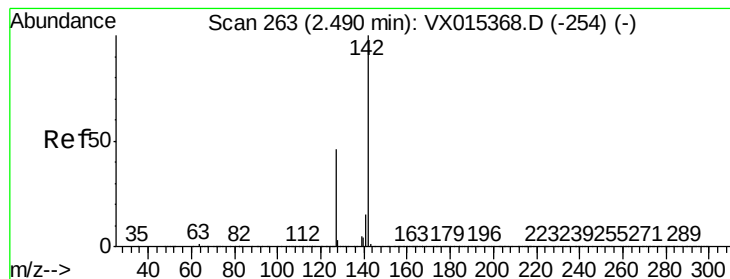
500

0

Time-->

1.60 1.65





#10

Methvl Iodide

Concen: 0.277 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

Instrument :

MSVOA\_X

ClientSampleId :

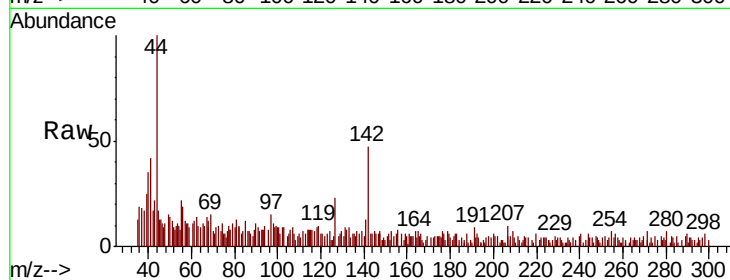
Tot Ion:142 Resp: 3863

Ion Ratio Lower Upper

142 100

127 67.0 35.9 53.9#

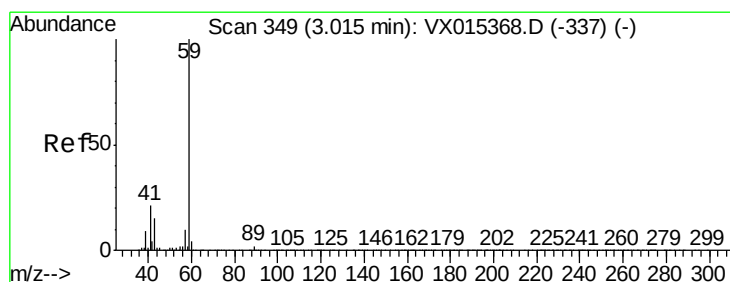
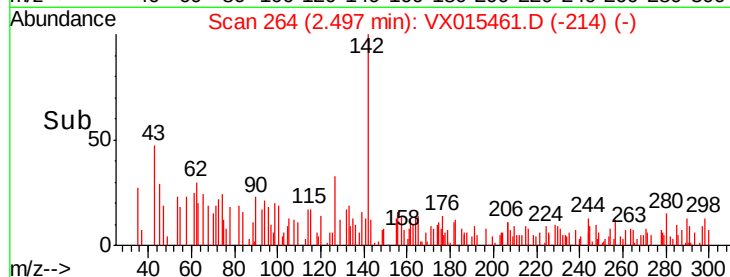
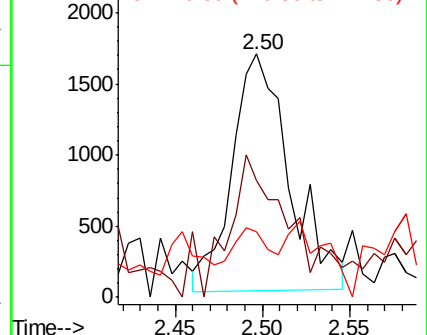
141 11.1 11.6 17.4#



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



#11

Tert butyl alcohol

Concen: 2.132 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015461.D

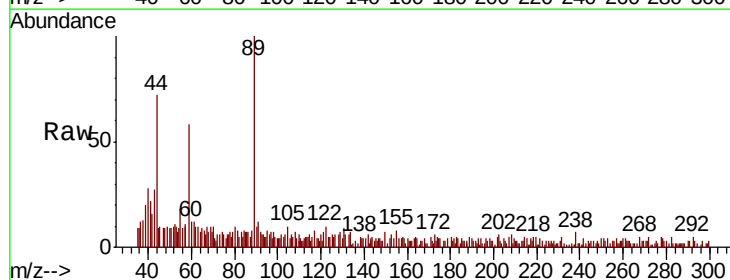
Acq: 01 Apr 2020 12:13

Tgt Ion: 59 Resp: 8280

Ion Ratio Lower Upper

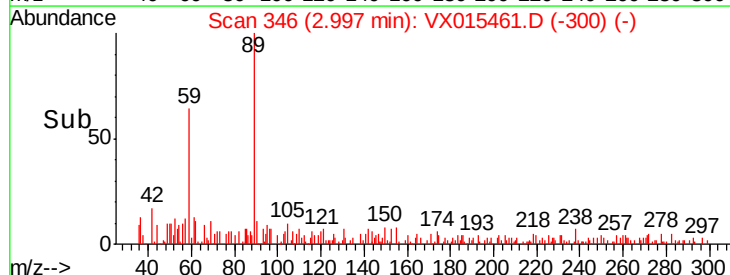
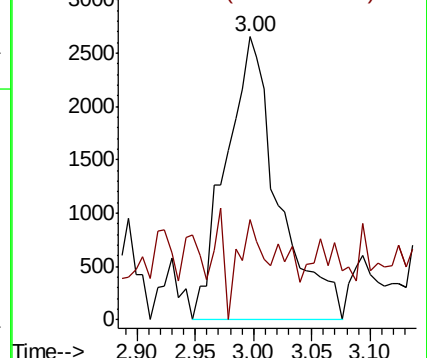
59 100

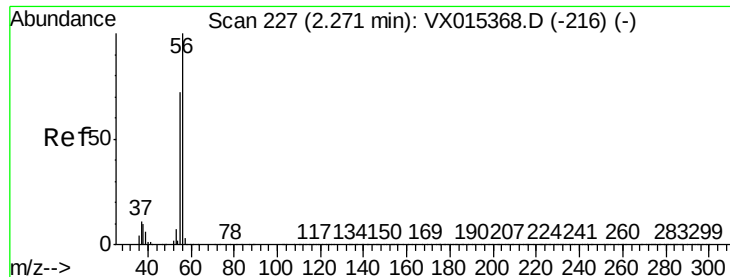
57 17.6 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.258 ug/l

RT: 2.24 min Scan# 222

Delta R.T. -0.03 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

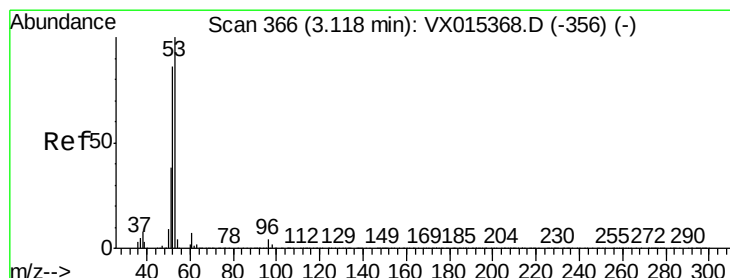
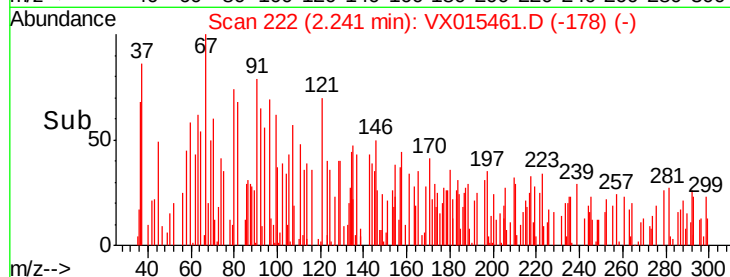
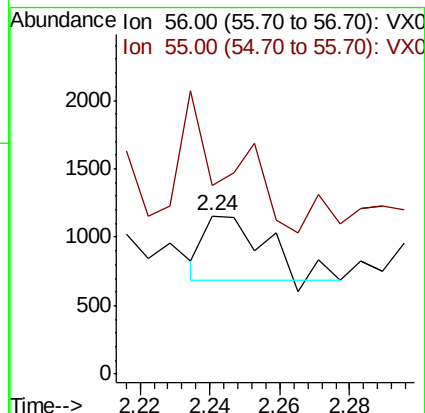
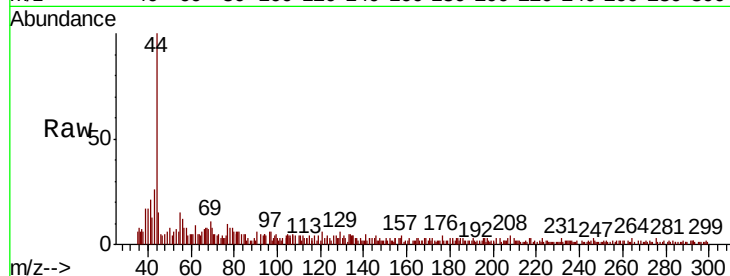
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 571

Ion Ratio Lower Upper

56 100

55 179.2 57.0 85.4#



#15

Acrylonitrile

Concen: 0.207 ug/l

RT: 3.12 min Scan# 366

Delta R.T. 0.00 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

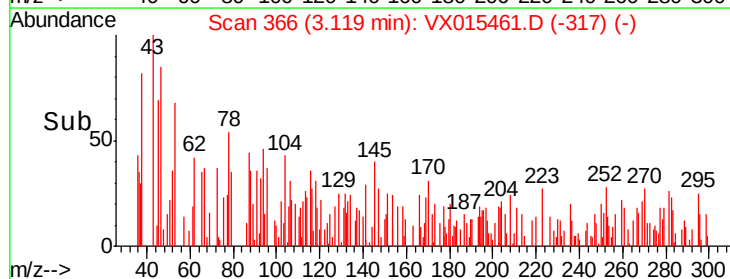
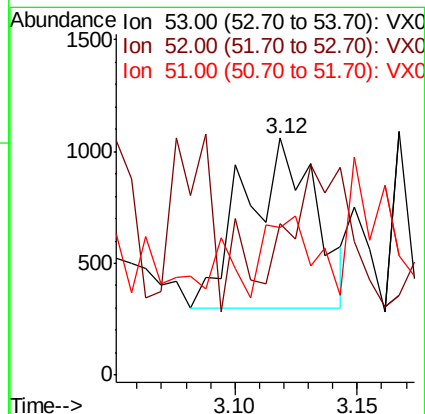
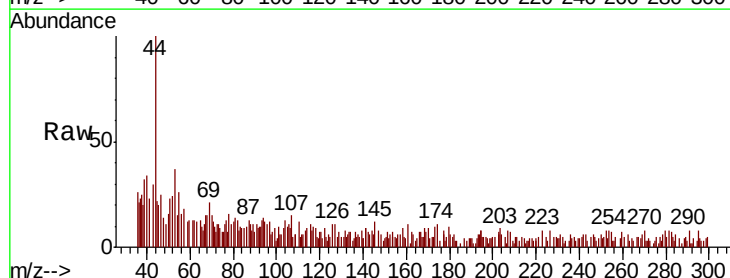
Tgt Ion: 53 Resp: 1536

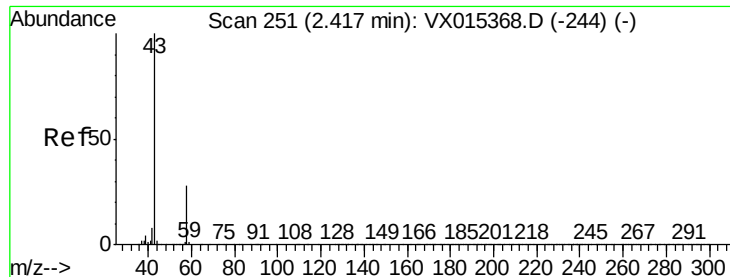
Ion Ratio Lower Upper

53 100

52 73.3 66.8 100.2

51 40.8 29.5 44.3

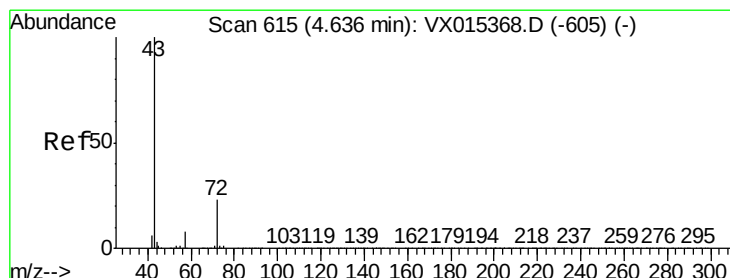
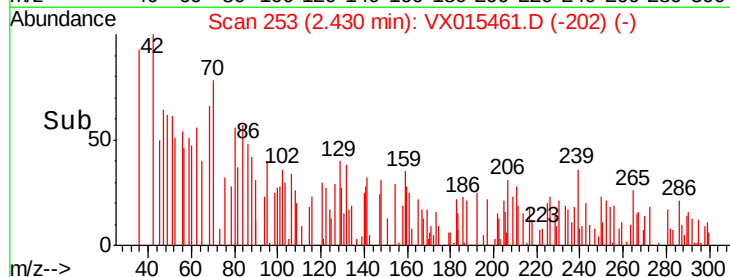
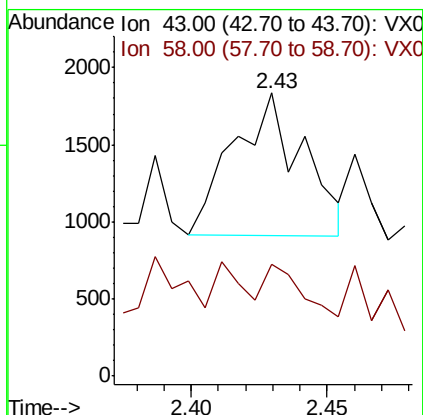
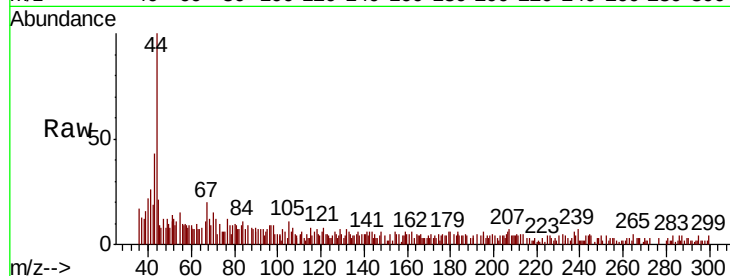




#16  
Acetone  
Concen: 0.238 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. 0.01 min  
Lab File: VX015461.D  
Acq: 01 Apr 2020 12:13

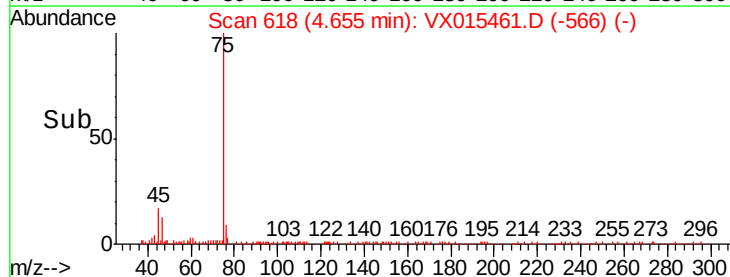
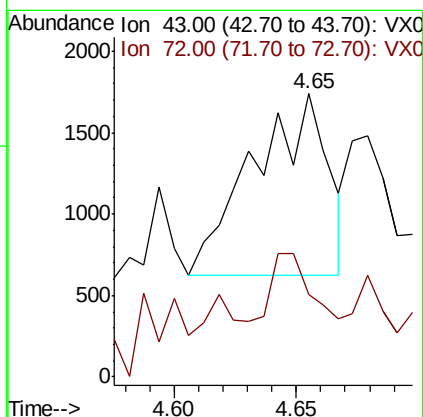
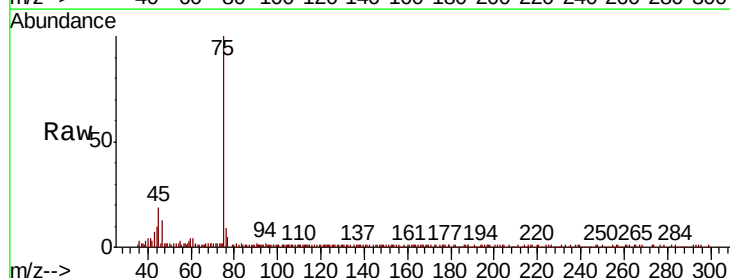
Instrument :  
MSVOA\_X  
ClientSampleId :

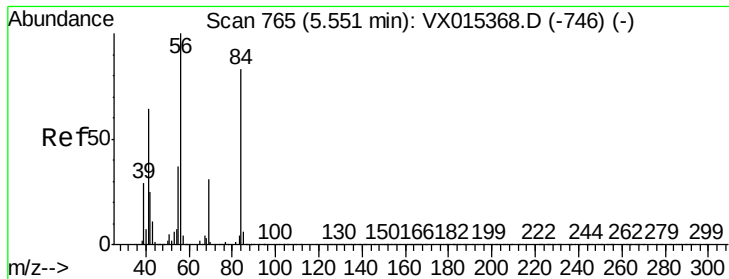
Tot Ion: 43 Resp: 1660  
Ion Ratio Lower Upper  
43 100  
58 37.7 22.1 33.1#



#25  
2-Butanone  
Concen: 0.211 ug/l  
RT: 4.65 min Scan# 618  
Delta R.T. 0.02 min  
Lab File: VX015461.D  
Acq: 01 Apr 2020 12:13

Tgt Ion: 43 Resp: 2371  
Ion Ratio Lower Upper  
43 100  
72 22.5 19.0 28.4

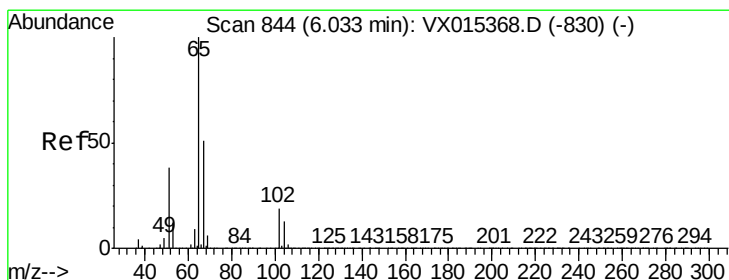
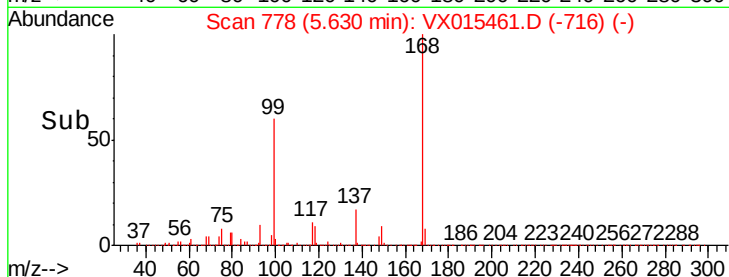
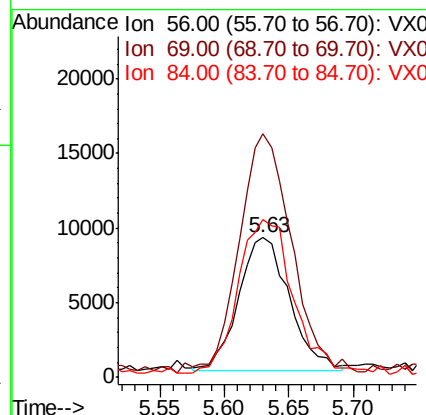
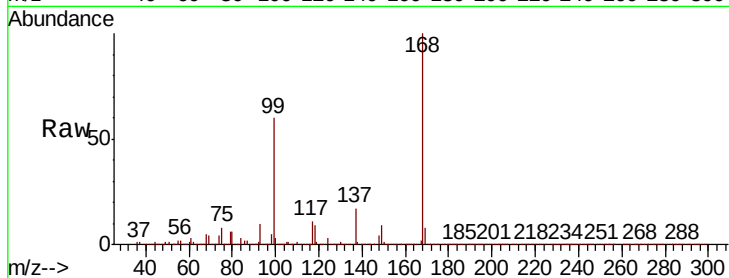




#31  
Cyclohexane  
Concen: 1.181 ug/l  
RT: 5.63 min Scan# 778  
Delta R.T. 0.08 min  
Lab File: VX015461.D  
Acq: 01 Apr 2020 12:13

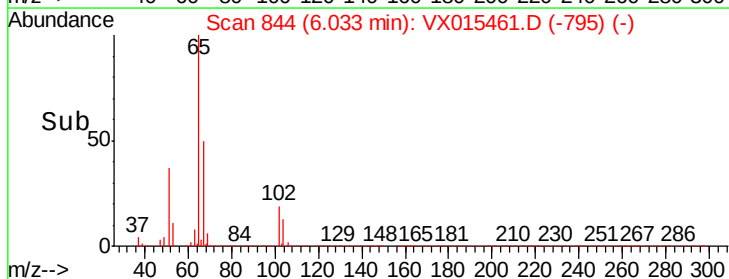
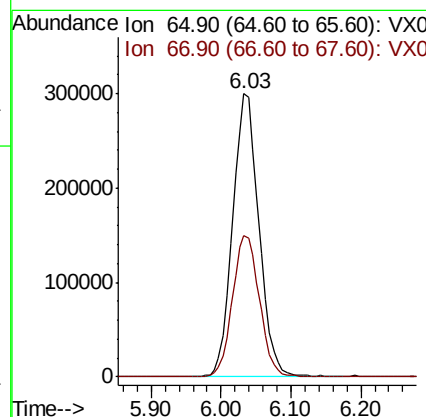
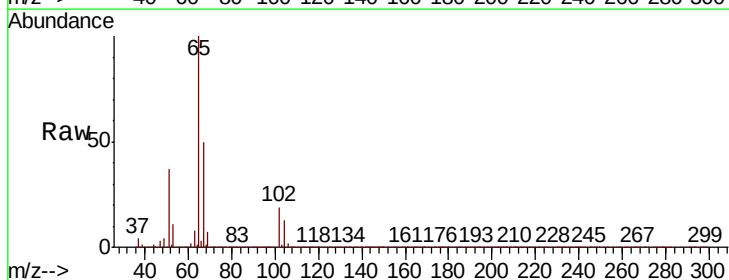
Instrument :  
MSVOA\_X  
ClientSampleId :

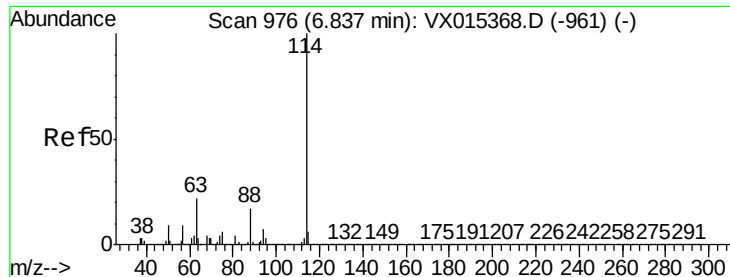
Tot Ion: 56 Resp: 24263  
Ion Ratio Lower Upper  
56 100  
69 178.2 24.6 36.8#  
84 118.0 66.1 99.1#



#33  
1,2-Dichloroethane-d4  
Concen: 48.029 ug/l  
RT: 6.03 min Scan# 844  
Delta R.T. 0.00 min  
Lab File: VX015461.D  
Acq: 01 Apr 2020 12:13

Tgt Ion: 65 Resp: 779331  
Ion Ratio Lower Upper  
65 100  
67 51.2 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: VX015461.D

Acq: 01 Apr 2020 12:13

Instrument :

MSVOA\_X

ClientSampleId :

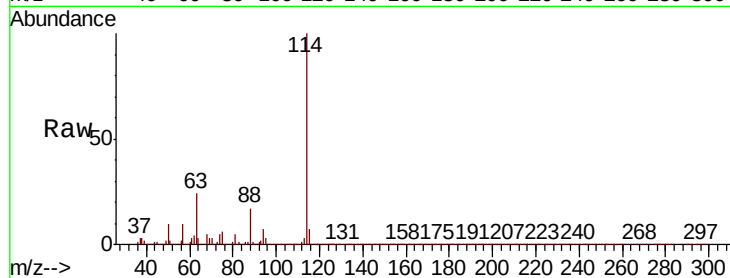
Tot Ion:114 Resp: 1851667

Ion Ratio Lower Upper

114 100

63 23.9 0.0 44.2

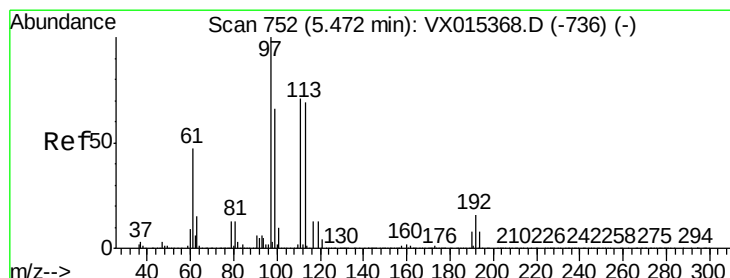
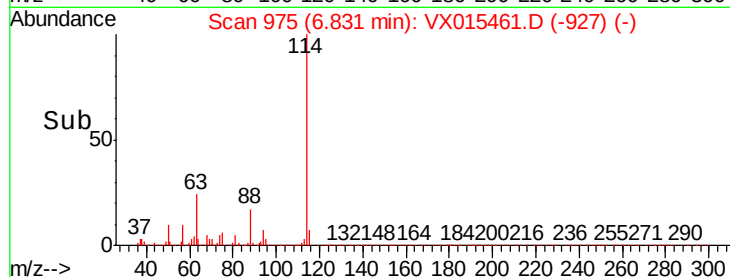
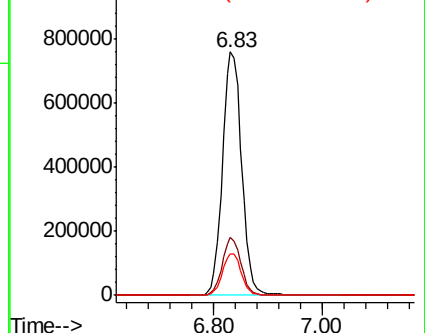
88 17.0 0.0 33.8



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: 49.689 ug/l

RT: 5.47 min Scan# 751

Delta R.T. -0.01 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

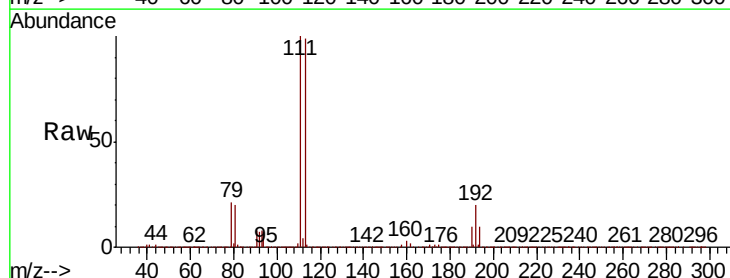
Tgt Ion:113 Resp: 588140

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

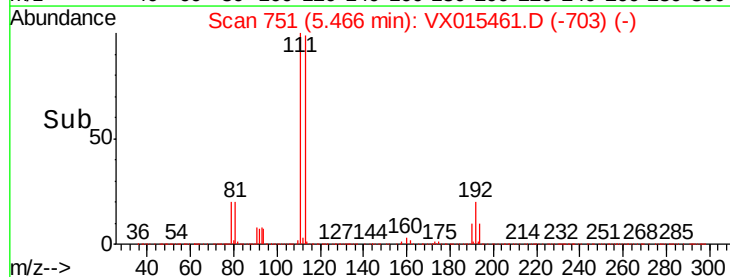
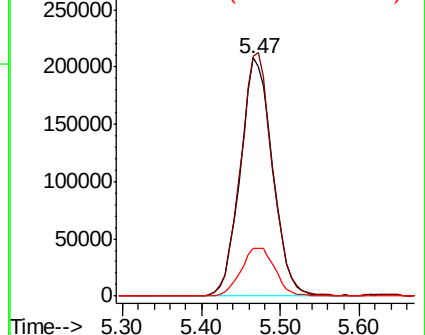
192 21.5 17.8 26.6



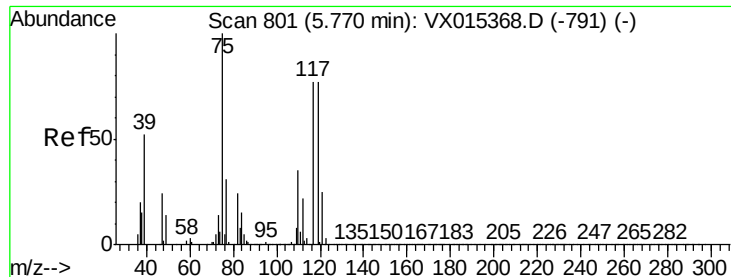
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



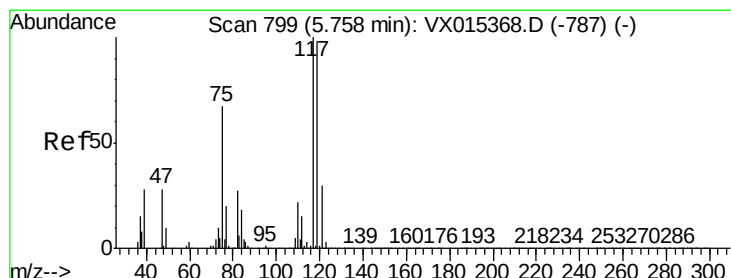
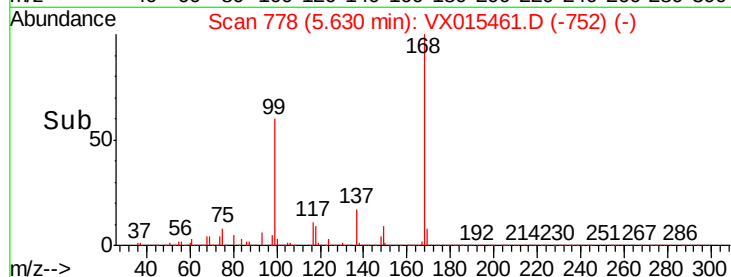
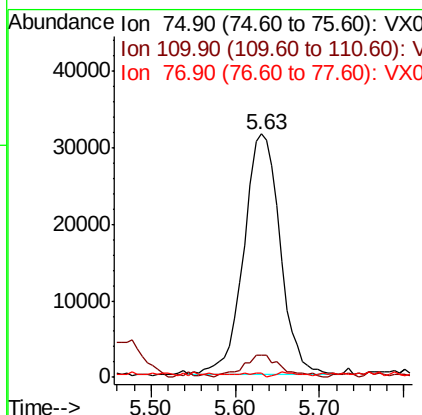
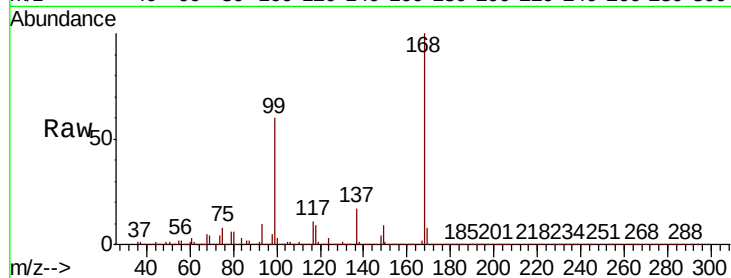




#36  
 1,1-Dichloropropene  
 Concen: 5.414 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.14 min  
 Lab File: VX015461.D  
 Acq: 01 Apr 2020 12:13

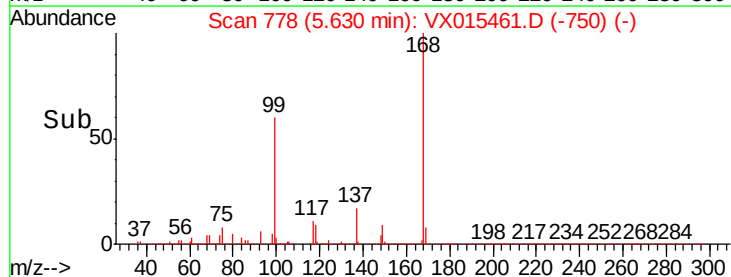
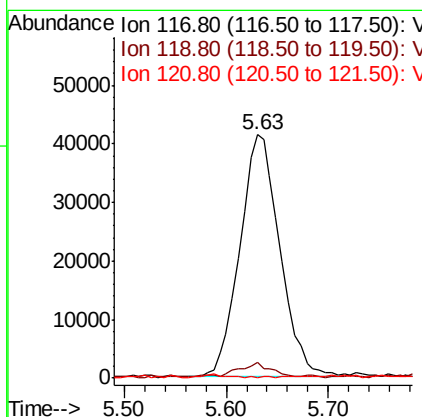
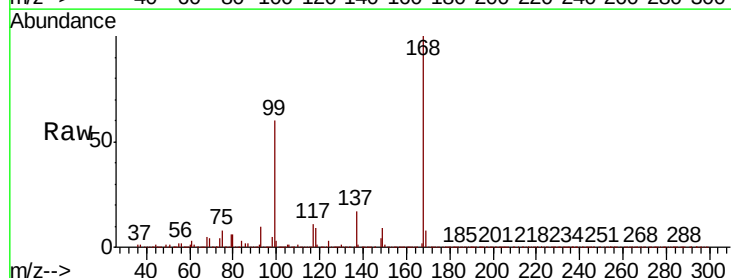
Instrument :  
 MSVOA\_X  
 ClientSampleId :

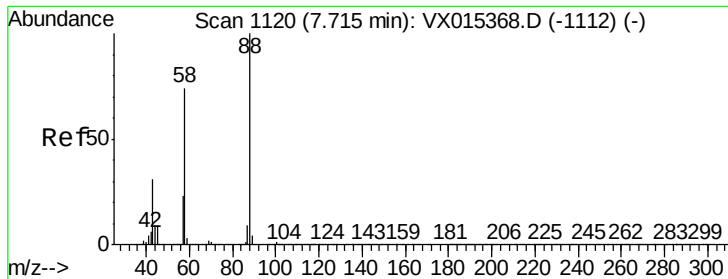
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.9   | 17.1  | 51.3# |
| 77      | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 6.088 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.13 min  
 Lab File: VX015461.D  
 Acq: 01 Apr 2020 12:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.8   | 78.0  | 117.0# |
| 121     | 0.0   | 23.8  | 35.8#  |

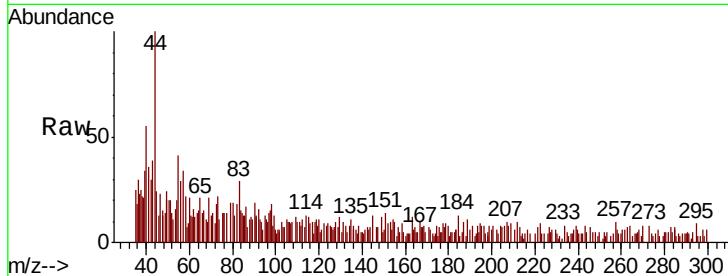




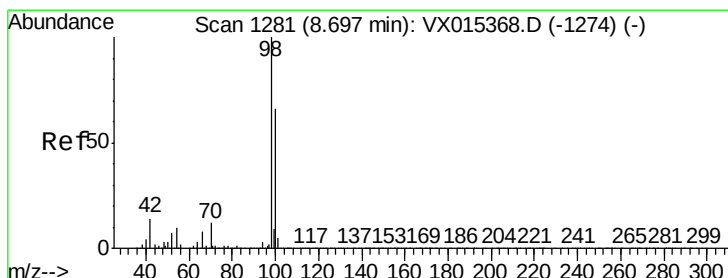
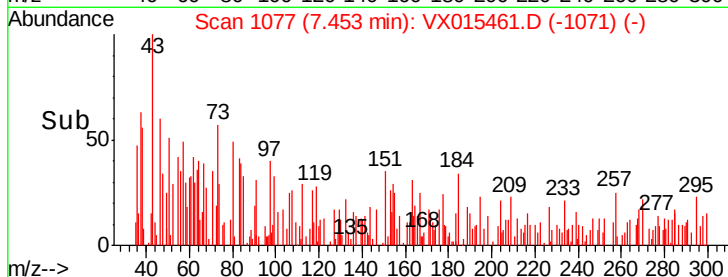
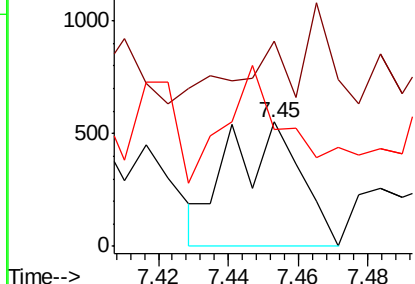
#49  
1,4-Dioxane  
Concen: 2.198 ug/l  
RT: 7.45 min Scan# 1077  
Delta R.T. -0.26 min  
Lab File: VX015461.D  
Acq: 01 Apr 2020 12:13

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 88 Resp: 768  
Ion Ratio Lower Upper  
88 100  
43 34.1 30.1 45.1  
58 89.8 60.6 90.8

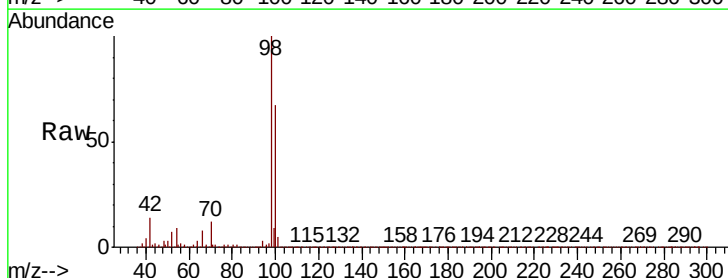


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

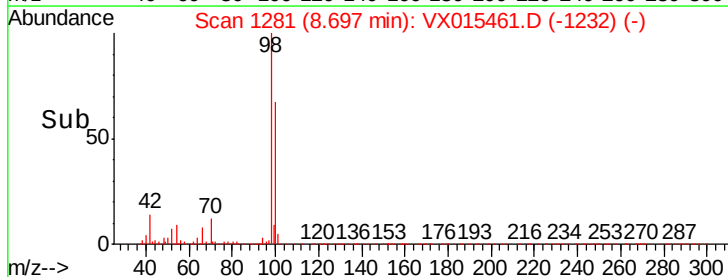
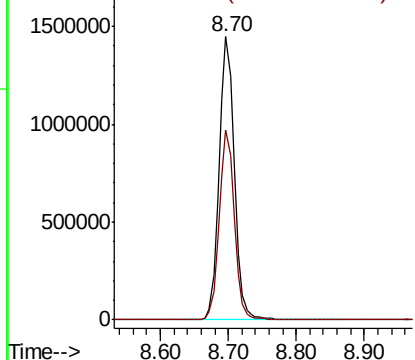


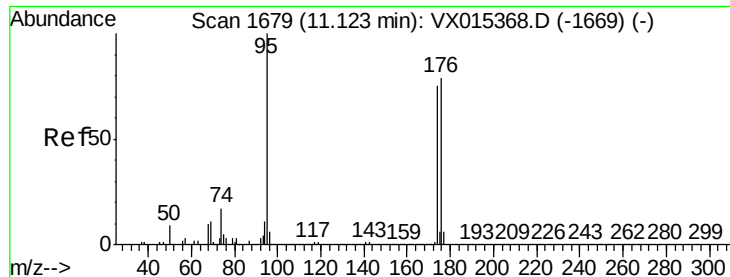
#50  
Toluene-d8  
Concen: 51.216 ug/l  
RT: 8.70 min Scan# 1281  
Delta R.T. 0.00 min  
Lab File: VX015461.D  
Acq: 01 Apr 2020 12:13

Tgt Ion: 98 Resp: 2231919  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.5 80.3



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





#62

4-Bromofluorobenzene

Concen: 52.722 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

Instrument :

MSVOA\_X

ClientSampleId :

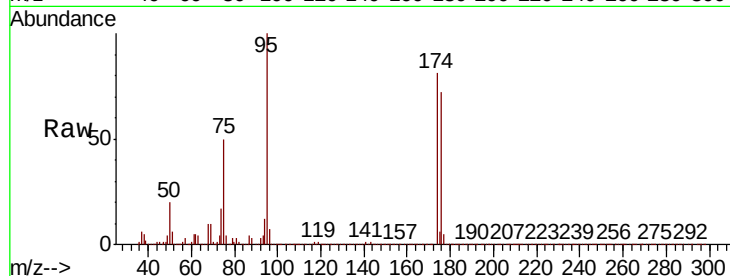
Tot Ion: 95 Resp: 933717

Ion Ratio Lower Upper

95 100

174 78.0 0.0 158.6

176 75.0 0.0 159.0

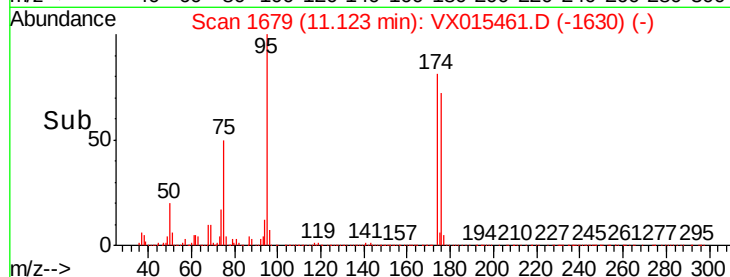


Abundance Ion 94.90 (94.60 to 95.60): VX015461.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015461.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015461.D (-1669) (-)

Time-->

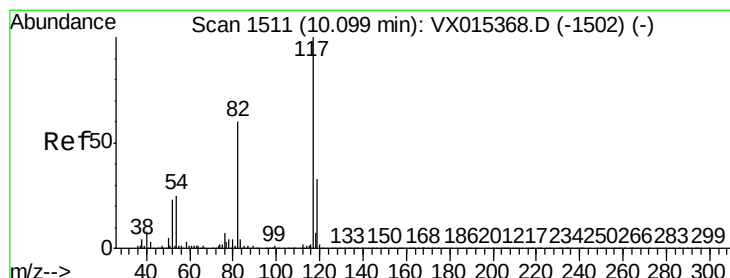


Abundance Ion 94.90 (94.60 to 95.60): VX015461.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015461.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015461.D (-1669) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

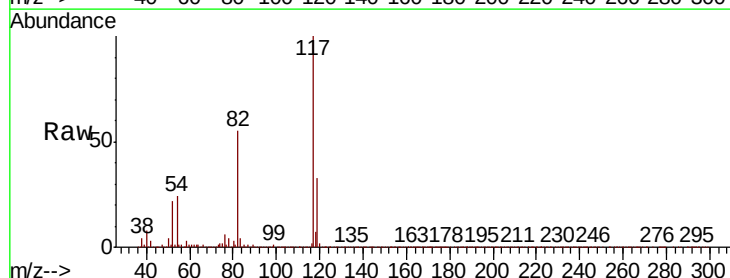
Tgt Ion: 117 Resp: 1755934

Ion Ratio Lower Upper

117 100

82 54.9 47.8 71.8

119 32.8 26.8 40.2

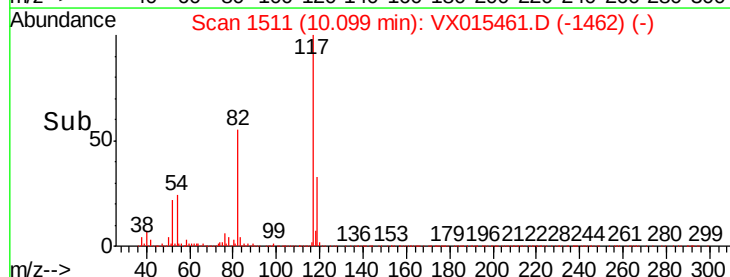


Abundance Ion 116.90 (116.60 to 117.60): VX015461.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015461.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015461.D (-1462) (-)

Time-->

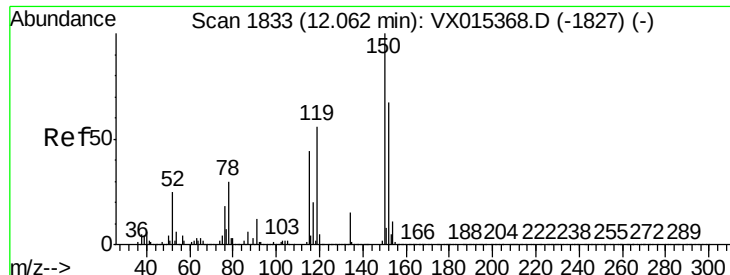


Abundance Ion 116.90 (116.60 to 117.60): VX015461.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015461.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015461.D (-1462) (-)

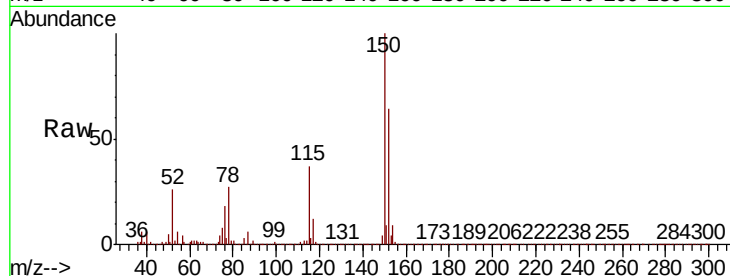
Time-->



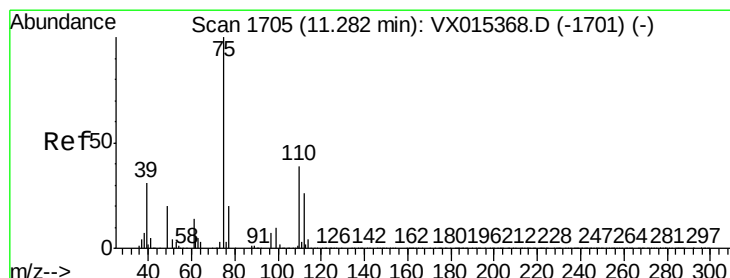
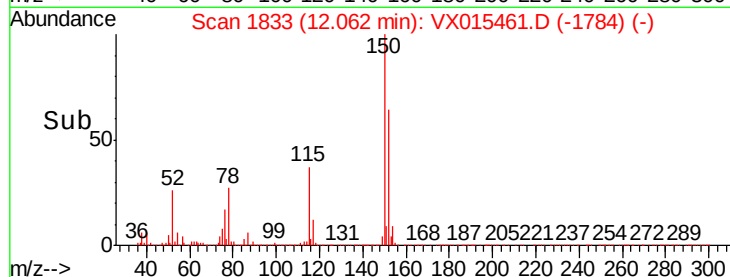
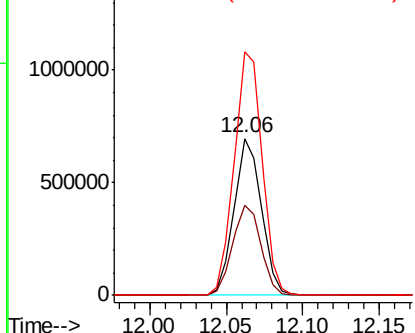
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. 0.00 min  
 Lab File: VX015461.D  
 Acq: 01 Apr 2020 12:13

Instrument :  
 MSVOA\_X  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.8  | 39.0  | 116.9 |
| 150     | 158.5 | 0.0   | 340.8 |

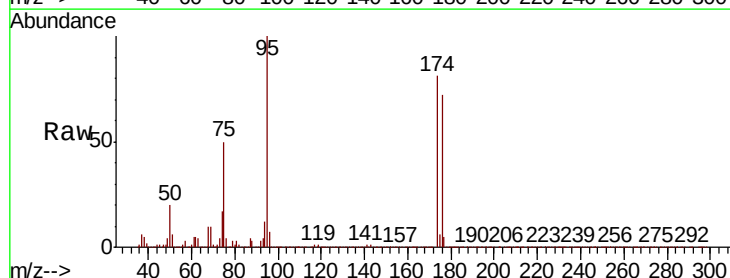


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

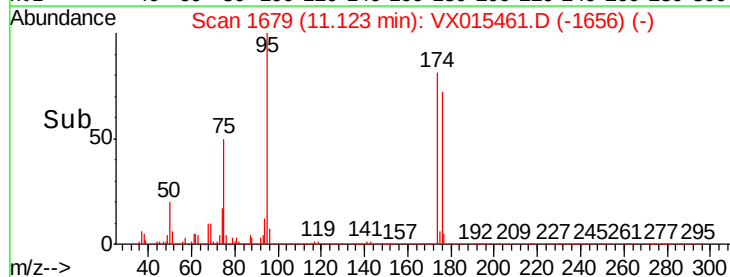
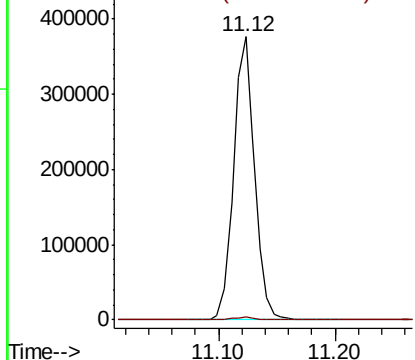


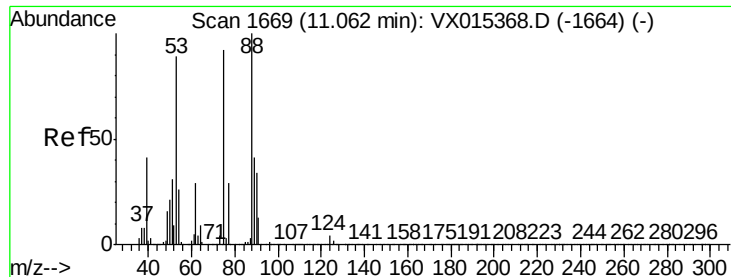
#76  
 1,2,3-Trichloropropane  
 Concen: 26.283 ug/l  
 RT: 11.12 min Scan# 1679  
 Delta R.T. -0.16 min  
 Lab File: VX015461.D  
 Acq: 01 Apr 2020 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.1   | 21.2  | 63.6  |



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: 63.066 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015461.D

Acq: 01 Apr 2020 12:13

Instrument :

MSVOA\_X

ClientSampleId :

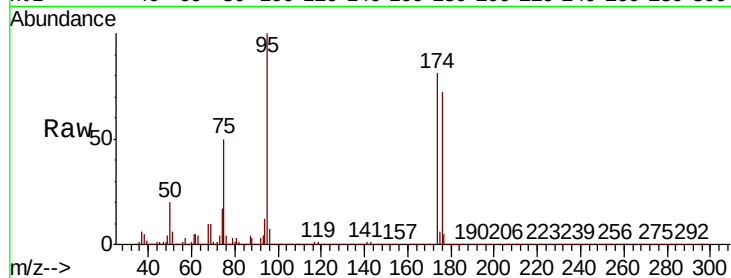
Tot Ion: 75 Resp: 468528

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.1 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

