

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041620\  
 Data File : VX015713.D  
 Acq On : 16 Apr 2020 15:38  
 Operator : JC/SP  
 Sample : L2293-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z5-S1SVEGW-200407

Quant Time: Apr 17 06:49:04 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  | 1066213  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1631246  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1561168  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 873865   | 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   | 633970   | 42.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.32%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 492750   | 47.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.52%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 1931841  | 50.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.64% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 825003   | 52.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.76% |          |

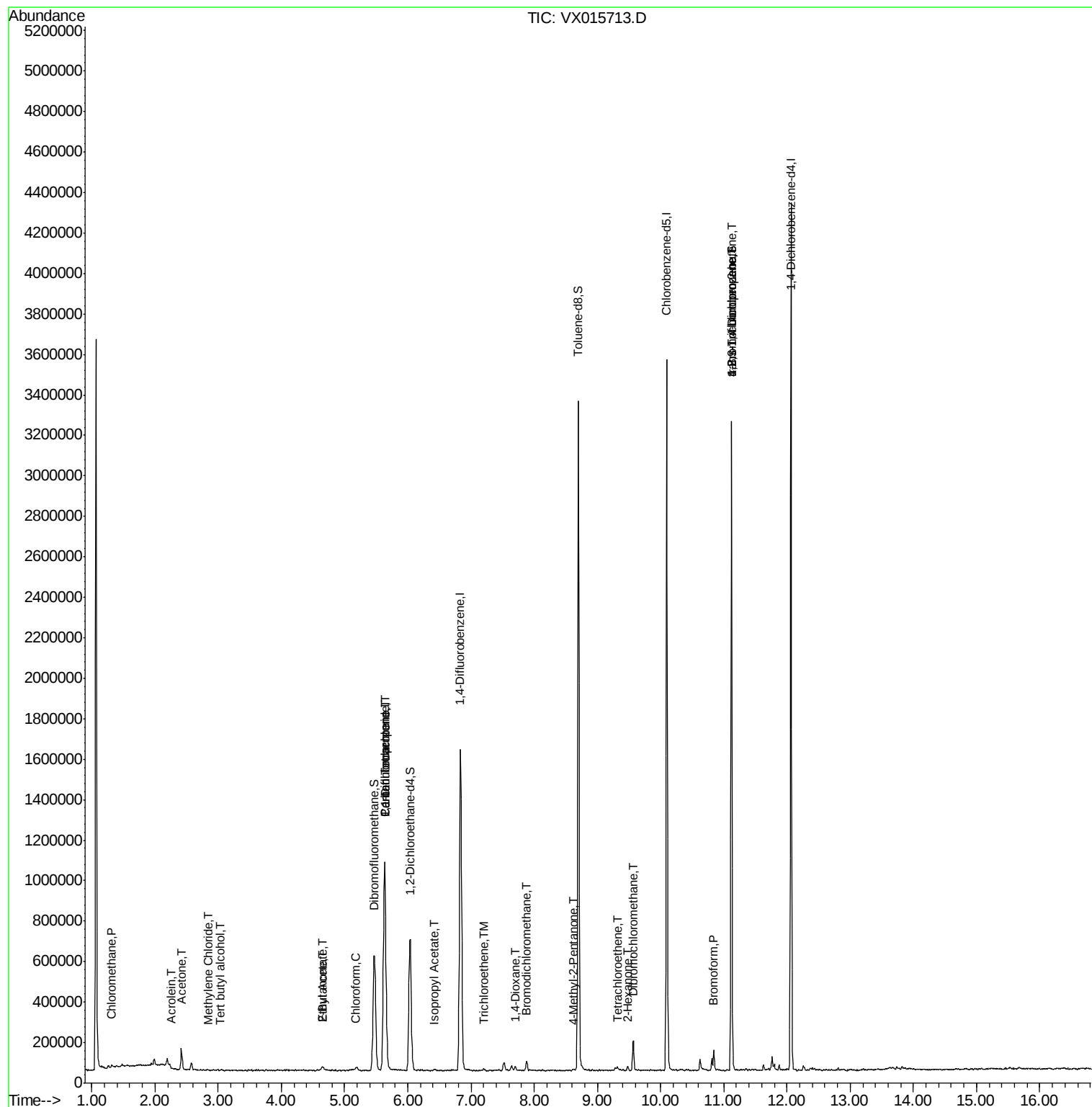
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 6745     | 0.564     | ug/l   | 94     |
| 5) Bromomethane                | 1.64  | 94   | 1669     | Below Cal |        | 88     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 2081     | 0.578     | ug/l # | 73     |
| 13) Acrolein                   | 2.26  | 56   | 663      | 0.323     | ug/l # | 73     |
| 16) Acetone                    | 2.42  | 43   | 119131   | 18.440    | ug/l   | 98     |
| 20) Methylene Chloride         | 2.84  | 84   | 2758     | 0.229     | ug/l # | 54     |
| 25) 2-Butanone                 | 4.65  | 43   | 37236    | 3.584     | ug/l   | 95     |
| 30) Chloroform                 | 5.19  | 83   | 20256    | 0.959     | ug/l   | 92     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 69247    | 4.607     | ug/l # | 55     |
| 37) Ethyl Acetate              | 4.65  | 43   | 37236    | 1.903     | ug/l # | 75     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 96644    | 5.937     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.43  | 43   | 7105     | 0.215     | ug/l # | 88     |
| 44) Trichloroethene            | 7.19  | 130  | 3009     | 0.251     | ug/l   | 95     |
| 47) Bromodichloromethane       | 7.88  | 83   | 31664    | 1.881     | ug/l   | 94     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 183      | 0.594     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 4761     | 0.254     | ug/l # | 51     |
| 59) 2-Hexanone                 | 9.48  | 43   | 15521    | 1.098     | ug/l   | 93     |
| 60) Dibromochloromethane       | 9.56  | 129  | 47397    | 3.547     | ug/l   | 95     |
| 64) Tetrachloroethene          | 9.31  | 164  | 4082     | 0.346     | ug/l # | 68     |
| 71) Bromoform                  | 10.84 | 173  | 39242    | 3.466     | ug/l # | 99     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 408251   | 22.718    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 408251   | 54.511    | ug/l # | 10     |

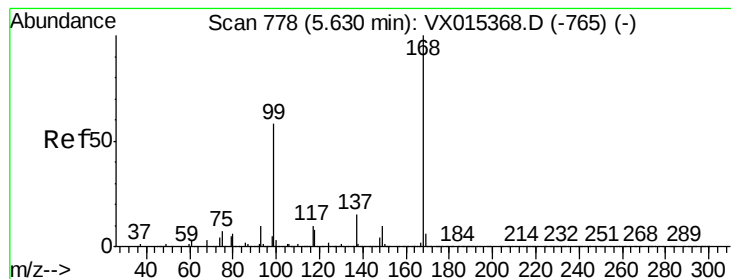
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041620\  
Data File : VX015713.D  
Acq On : 16 Apr 2020 15:38  
Operator : JC/SP  
Sample : L2293-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z5-S1SVEGW-200407

Quant Time: Apr 17 06:49:04 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: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

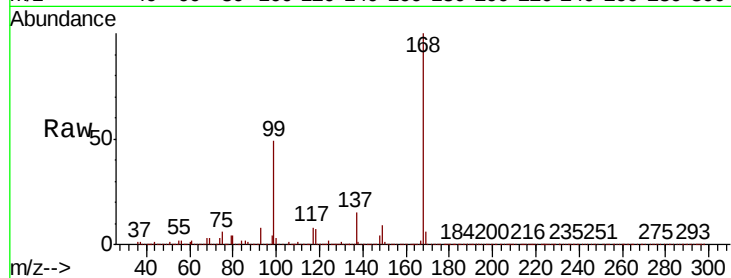
Z5-S1SVEGW-200407

Tot Ion:168 Resp: 1066213

Ion Ratio Lower Upper

168 100

99 49.0 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

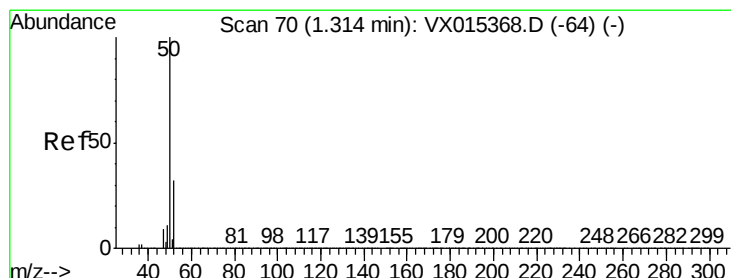
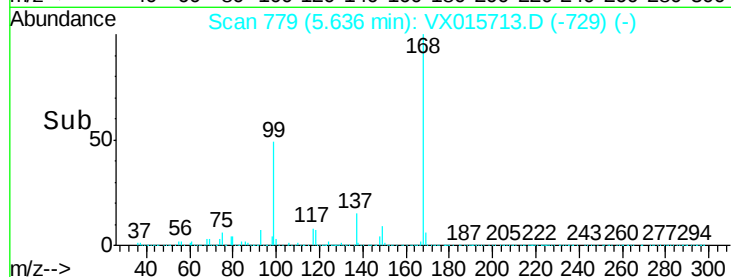
5.50

5.60

5.70

5.80

Time-->



#3

Chloromethane

Concen: 0.564 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX015713.D

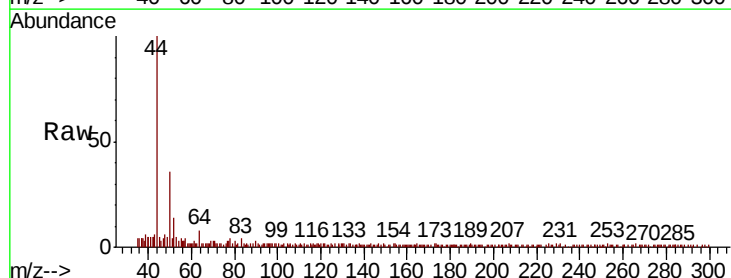
Acq: 16 Apr 2020 15:38

Tgt Ion: 50 Resp: 6745

Ion Ratio Lower Upper

50 100

52 35.2 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

6000

5000

4000

3000

2000

1000

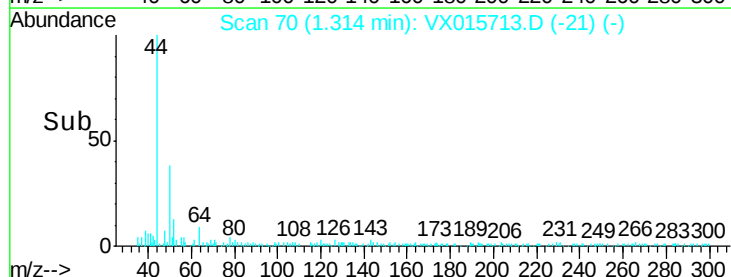
0

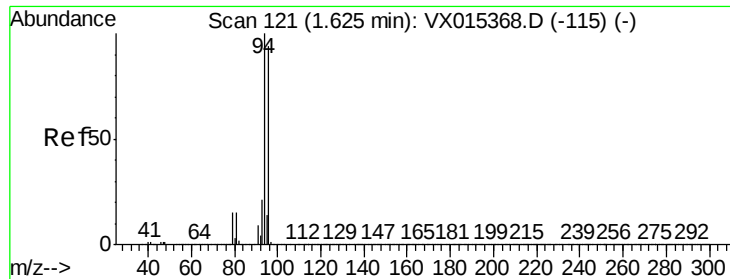
1.25

1.30

1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

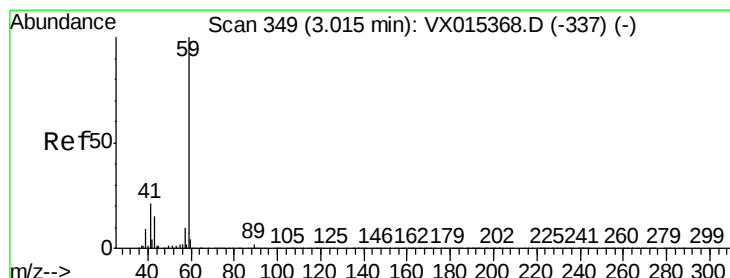
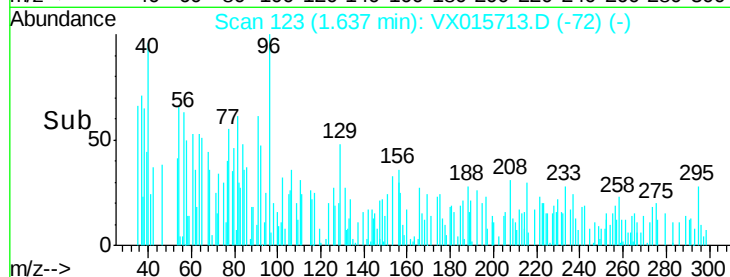
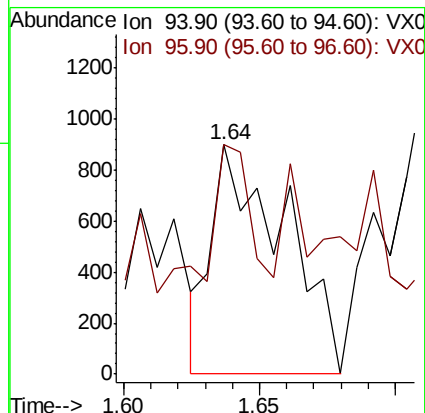
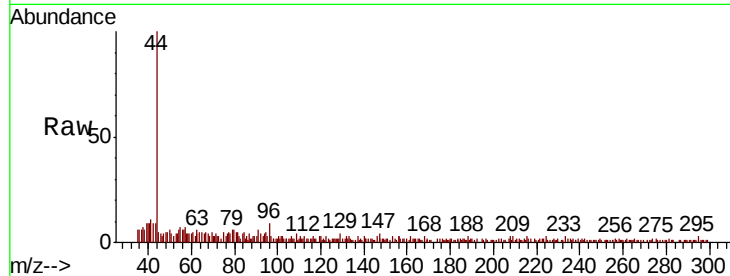
Z5-S1SVEGW-200407

Tot Ion: 94 Resp: 1669

Ion Ratio Lower Upper

94 100

96 81.8 74.8 112.2



#11

Tert butyl alcohol

Concen: 0.578 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.01 min

Lab File: VX015713.D

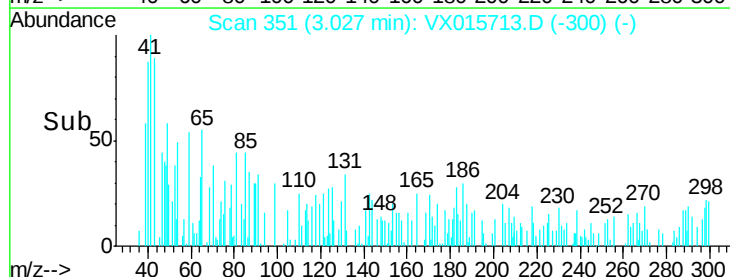
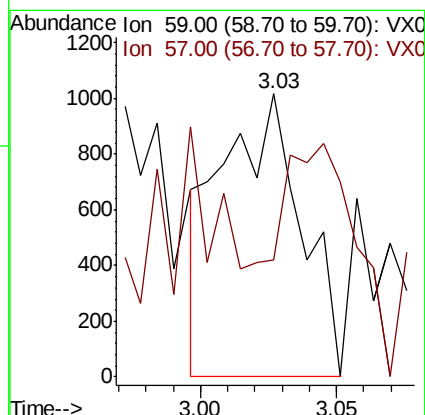
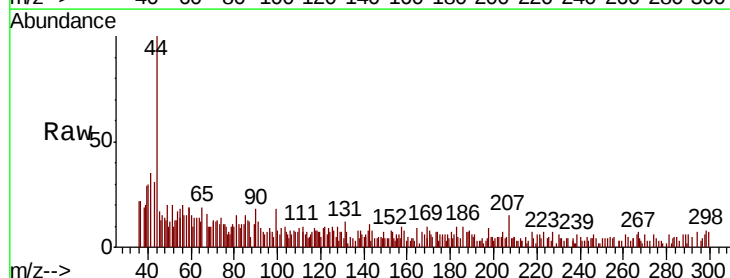
Acq: 16 Apr 2020 15:38

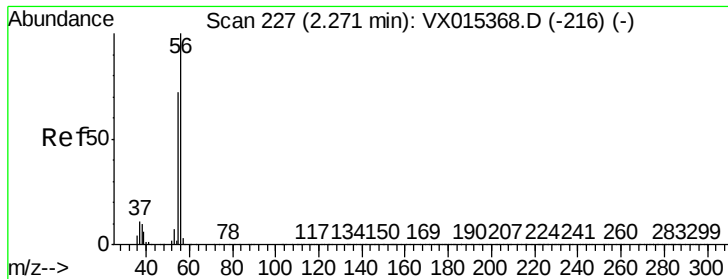
Tgt Ion: 59 Resp: 2081

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#

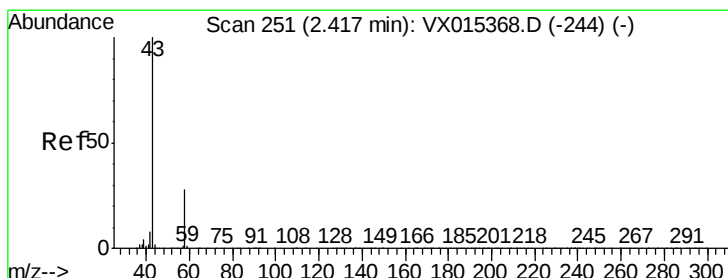
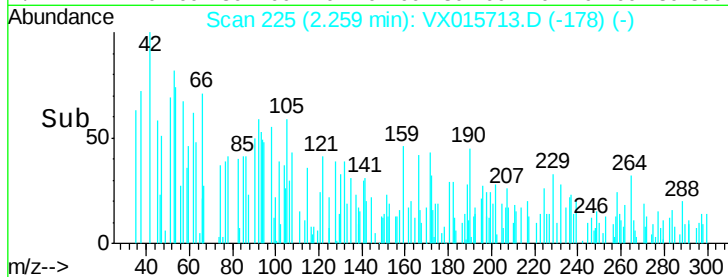
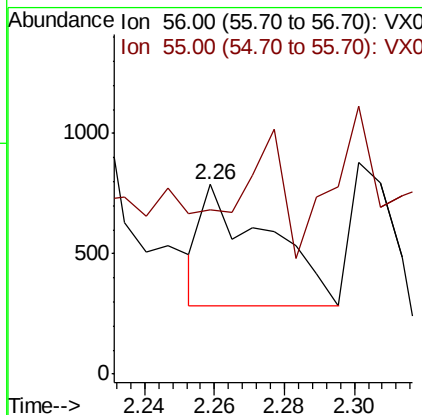
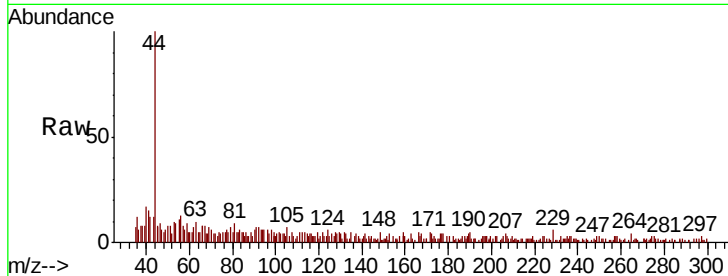




#13  
Acrolein  
Concen: 0.323 ug/l  
RT: 2.26 min Scan# 225  
Delta R.T. -0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

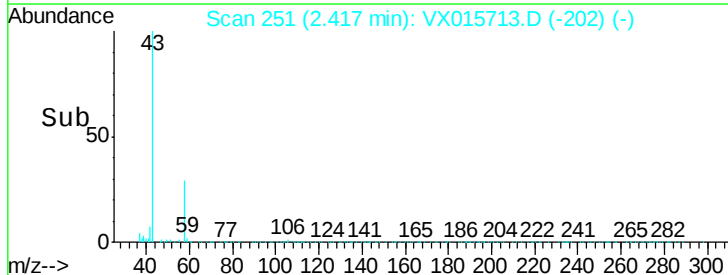
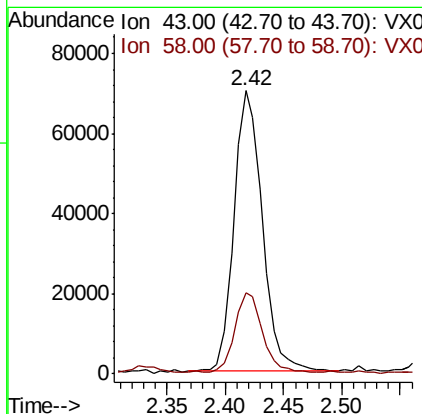
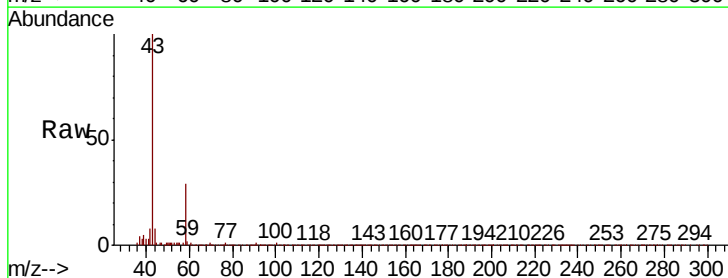
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z5-S1SVEGW-200407

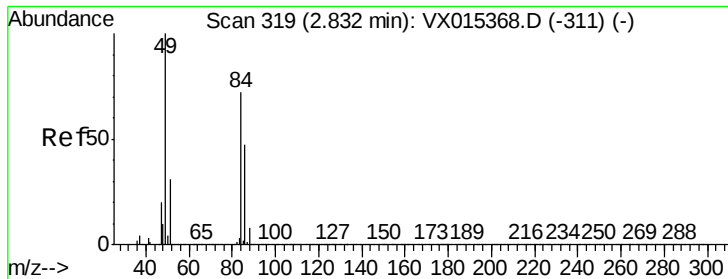
Tot Ion: 56 Resp: 663  
Ion Ratio Lower Upper  
56 100  
55 48.6 57.0 85.4#



#16  
Acetone  
Concen: 18.440 ug/l  
RT: 2.42 min Scan# 251  
Delta R.T. -0.00 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

Tgt Ion: 43 Resp: 119131  
Ion Ratio Lower Upper  
43 100  
58 28.5 22.1 33.1

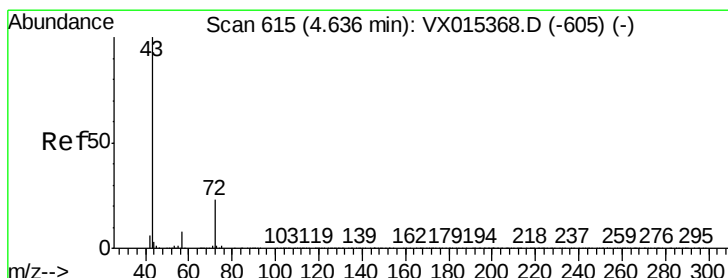
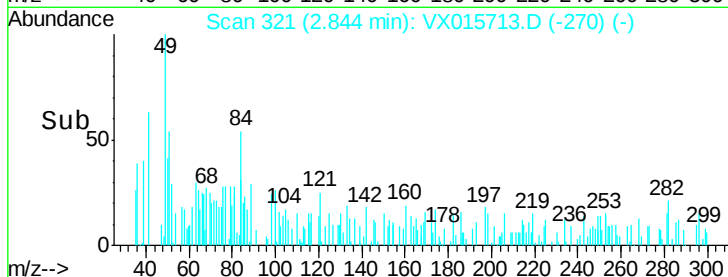
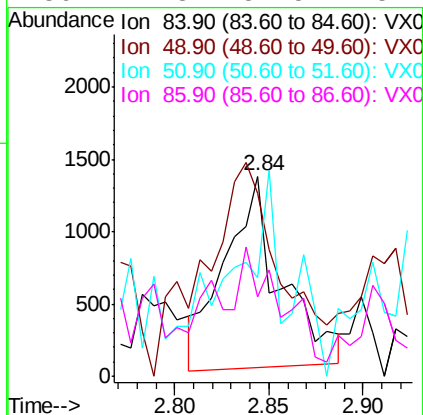
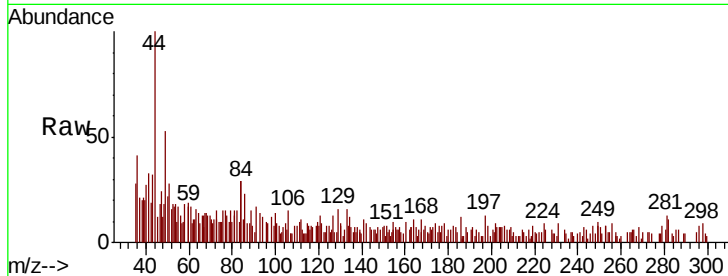




#20  
Methvlene Chloride  
Concen: 0.229 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. 0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

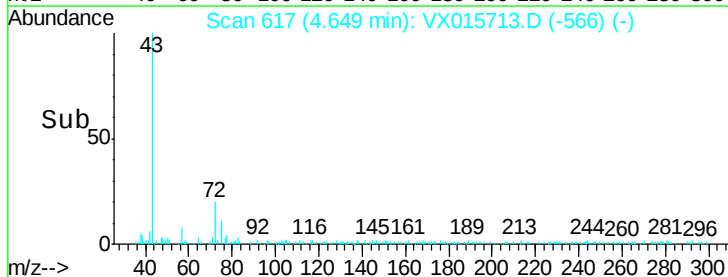
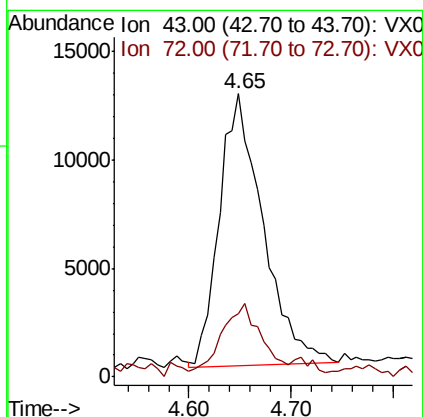
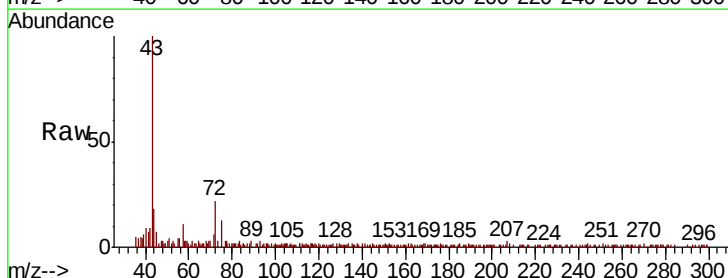
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z5-S1SVEGW-200407

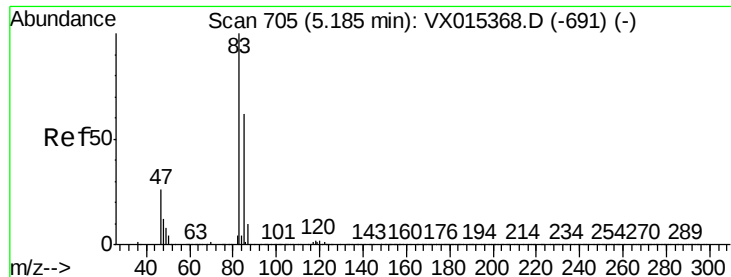
Tot Ion: 84 Resp: 2758  
Ion Ratio Lower Upper  
84 100  
49 76.8 111.3 166.9#  
51 31.1 34.0 51.0#  
86 24.3 52.5 78.7#



#25  
2-Butanone  
Concen: 3.584 ug/l  
RT: 4.65 min Scan# 617  
Delta R.T. 0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

Tgt Ion: 43 Resp: 37236  
Ion Ratio Lower Upper  
43 100  
72 21.4 19.0 28.4

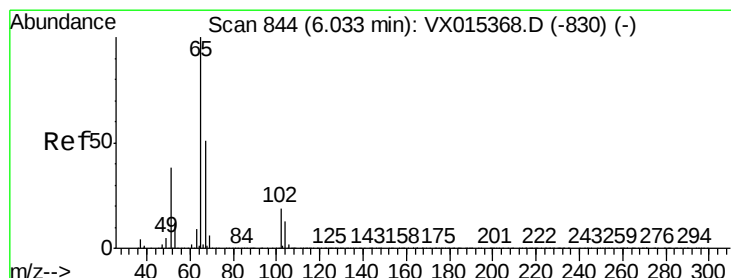
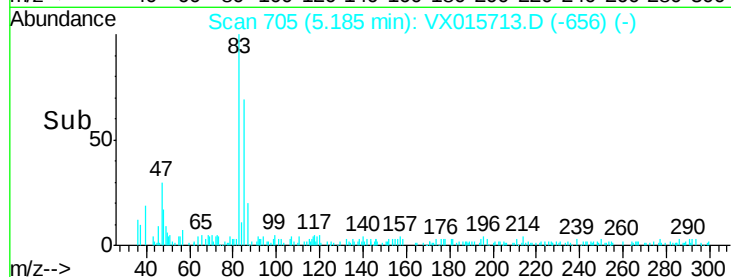
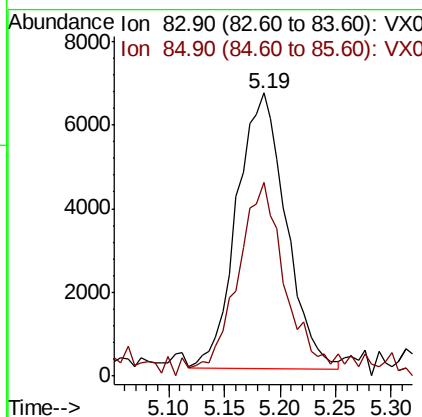
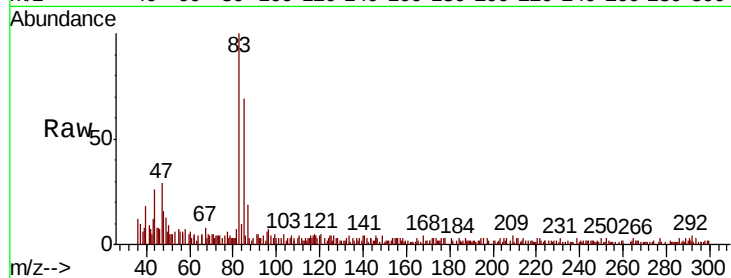




#30  
Chloroform  
Concen: 0.959 ug/l  
RT: 5.19 min Scan# 705  
Delta R.T. -0.00 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

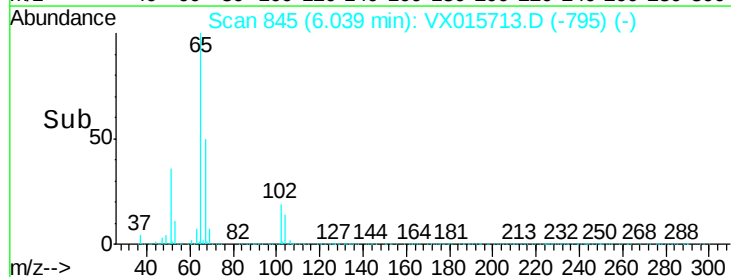
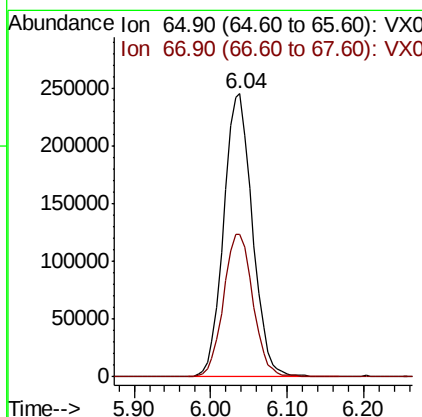
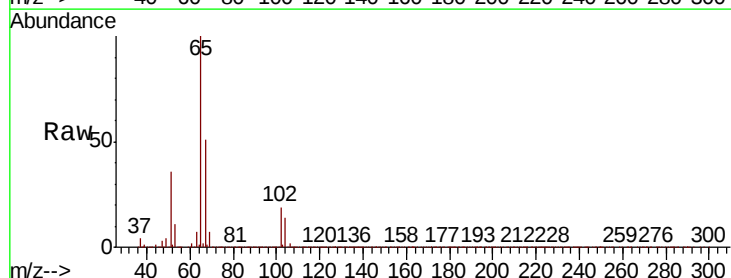
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z5-S1SVEGW-200407

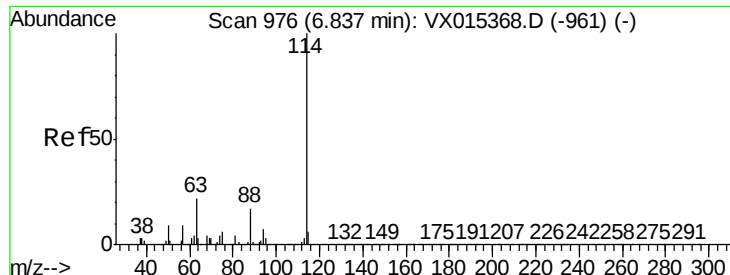
Tot Ion: 83 Resp: 20256  
Ion Ratio Lower Upper  
83 100  
85 67.8 49.5 74.3



#33  
1,2-Dichloroethane-d4  
Concen: 42.159 ug/l  
RT: 6.04 min Scan# 845  
Delta R.T. 0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

Tgt Ion: 65 Resp: 633970  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

Z5-S1SVEGW-200407

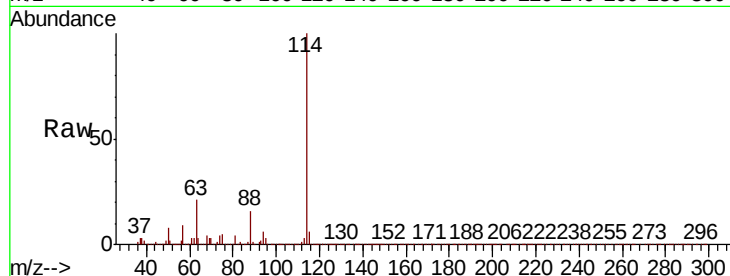
Tot Ion:114 Resp: 1631246

Ion Ratio Lower Upper

114 100

63 21.0 0.0 44.2

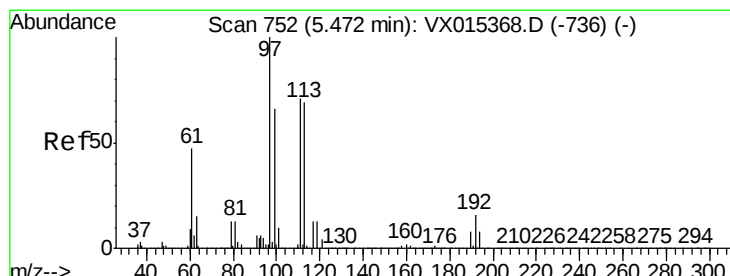
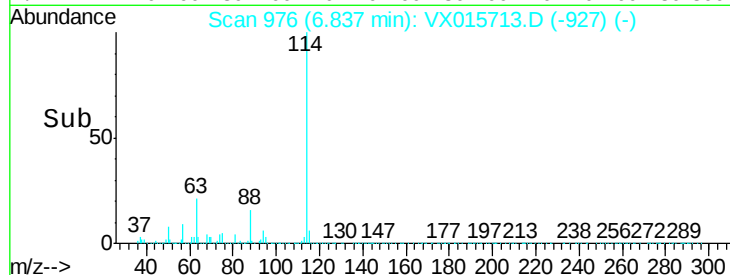
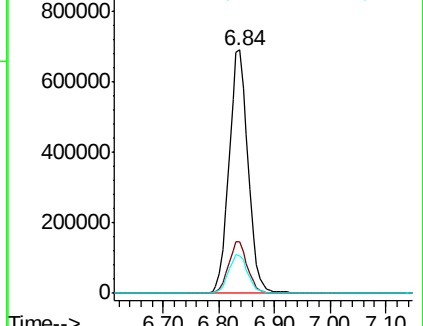
88 15.6 0.0 33.8



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: 47.255 ug/l

RT: 5.47 min Scan# 751

Delta R.T. -0.01 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

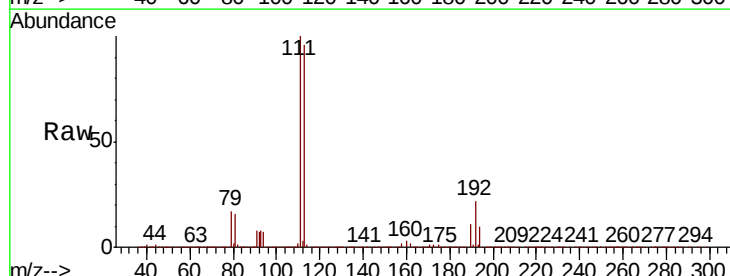
Tgt Ion:113 Resp: 492750

Ion Ratio Lower Upper

113 100

111 101.5 81.5 122.3

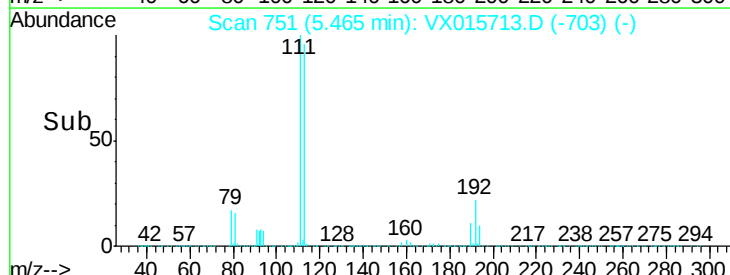
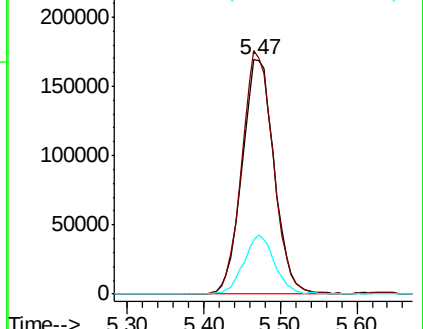
192 24.4 17.8 26.6

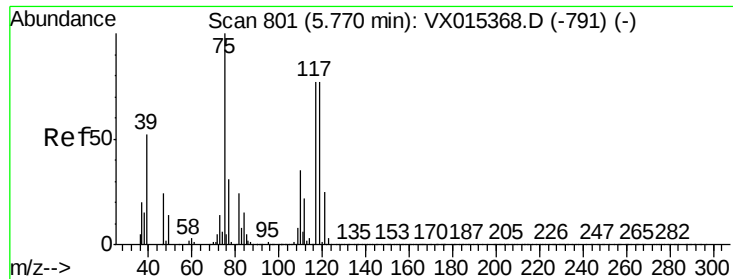


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

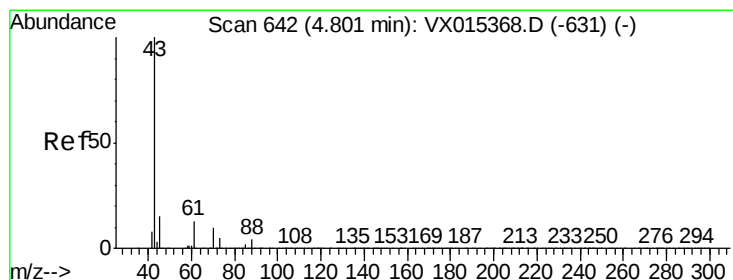
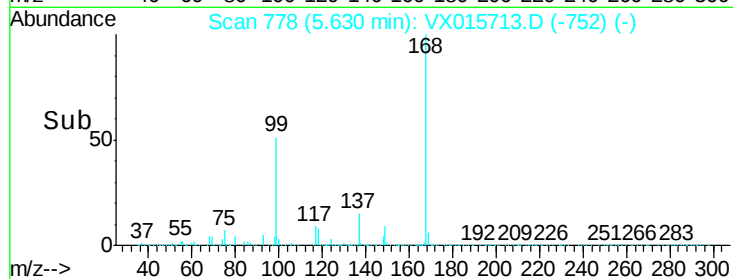
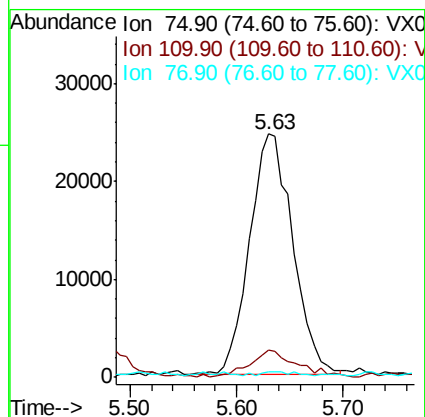
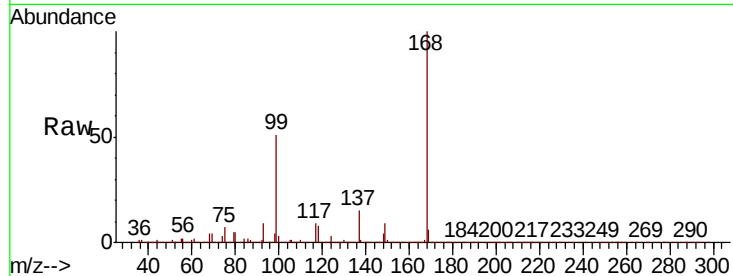




#36  
 1,1-Dichloropropene  
 Concen: 4.607 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.14 min  
 Lab File: VX015713.D  
 Acq: 16 Apr 2020 15:38

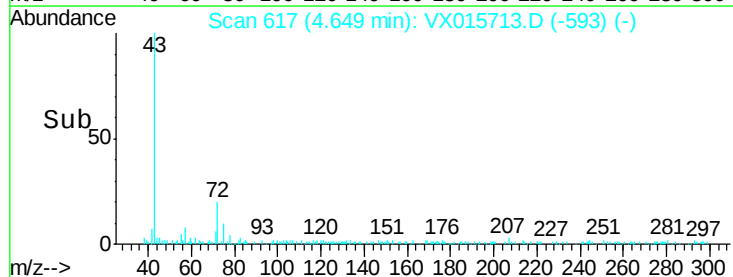
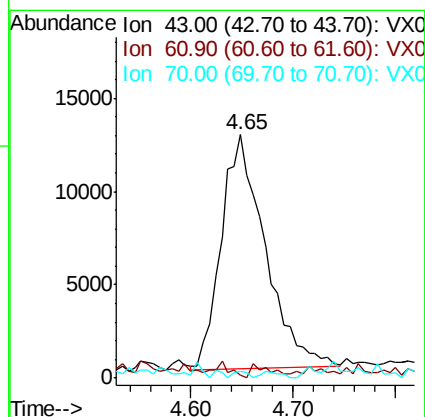
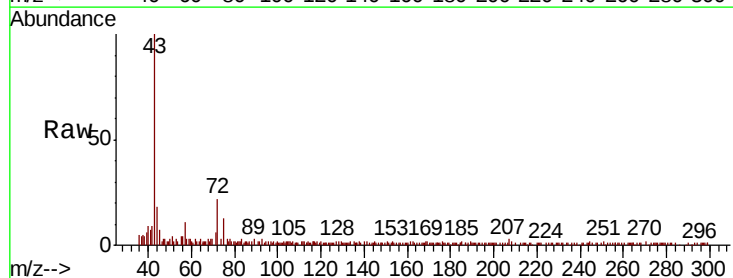
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z5-S1SVEGW-200407

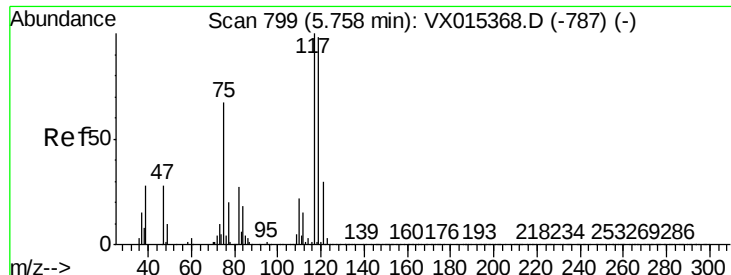
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 12.4  | 17.1  | 51.3# |
| 77      | 1.6   | 24.6  | 36.8# |



#37  
 Ethyl Acetate  
 Concen: 1.903 ug/l  
 RT: 4.65 min Scan# 617  
 Delta R.T. -0.15 min  
 Lab File: VX015713.D  
 Acq: 16 Apr 2020 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 2.9   | 9.9   | 14.9# |
| 70      | 0.9   | 8.1   | 12.1# |





#38

Carbon Tetrachloride

Concen: 5.937 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

Z5-S1SVEGW-200407

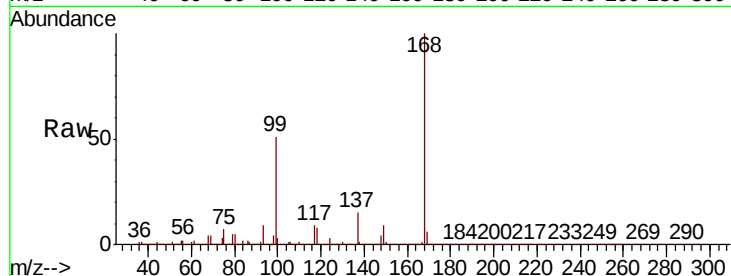
Tot Ion:117 Resp: 96644

Ion Ratio Lower Upper

117 100

119 5.2 78.0 117.0#

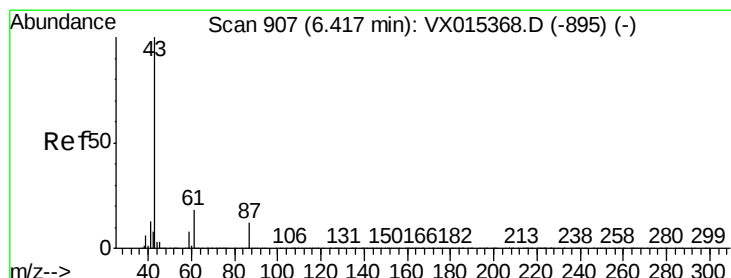
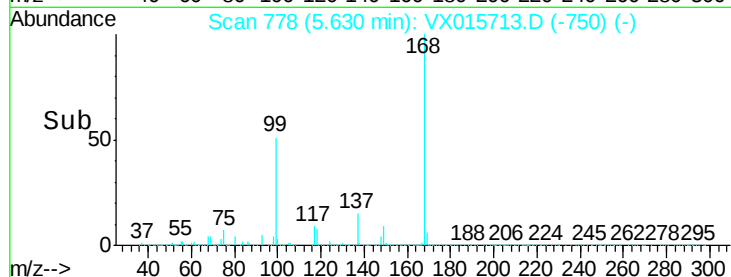
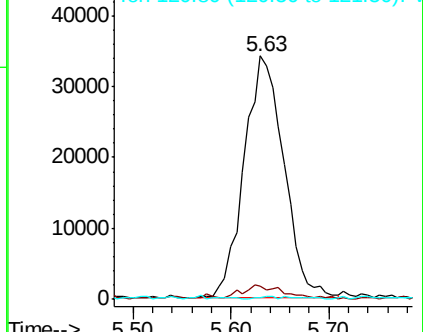
121 1.0 23.8 35.8#



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



#43

Isopropyl Acetate

Concen: 0.215 ug/l

RT: 6.43 min Scan# 909

Delta R.T. 0.01 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

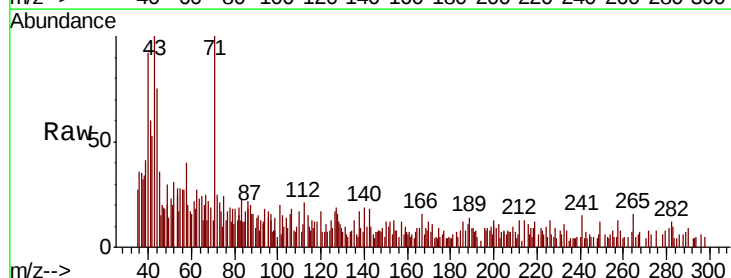
Tgt Ion: 43 Resp: 7105

Ion Ratio Lower Upper

43 100

61 10.5 14.8 22.2#

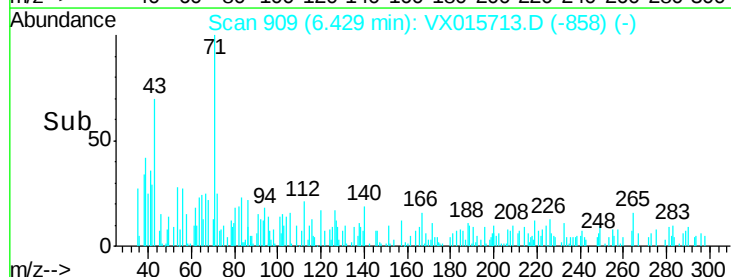
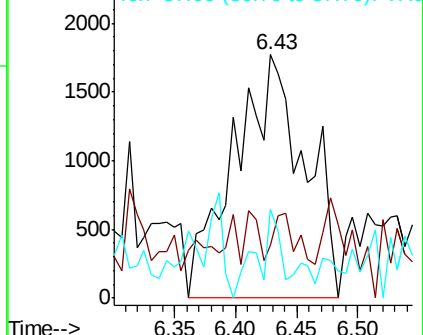
87 12.5 9.4 14.0

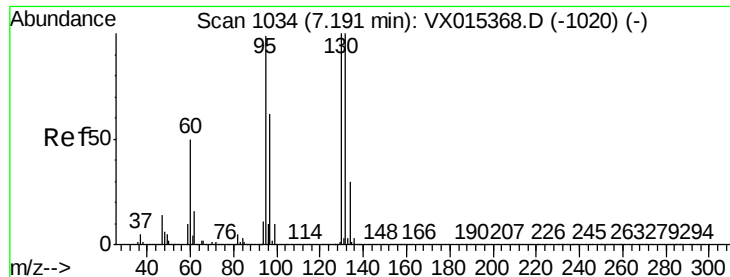


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.251 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

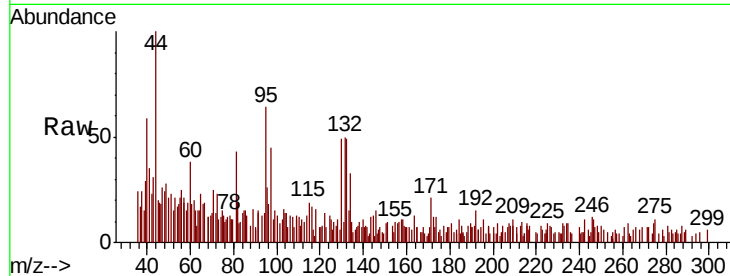
Z5-S1SVEGW-200407

Tot Ion:130 Resp: 3009

Ion Ratio Lower Upper

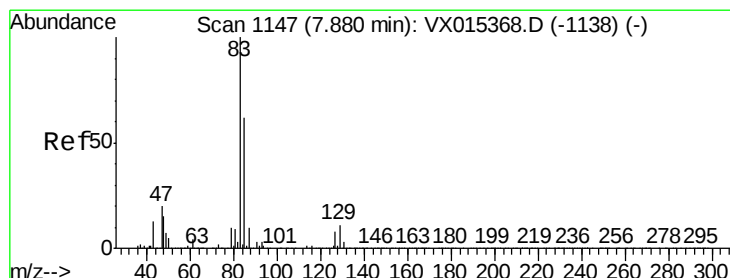
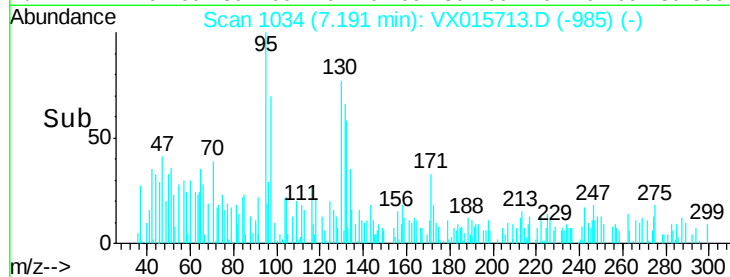
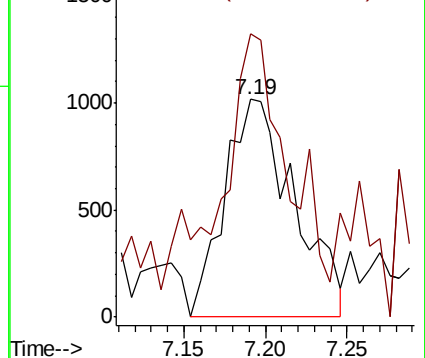
130 100

95 94.4 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#47

Bromodichloromethane

Concen: 1.881 ug/l

RT: 7.88 min Scan# 1147

Delta R.T. -0.00 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

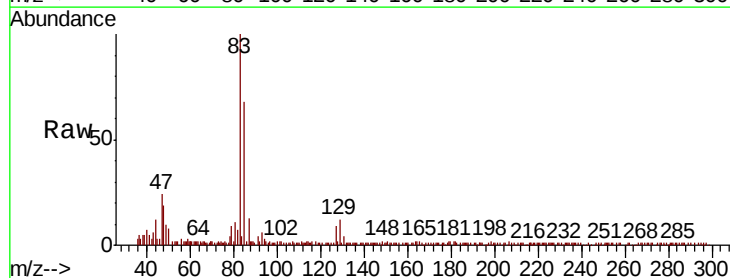
Tgt Ion: 83 Resp: 31664

Ion Ratio Lower Upper

83 100

85 67.1 49.7 74.5

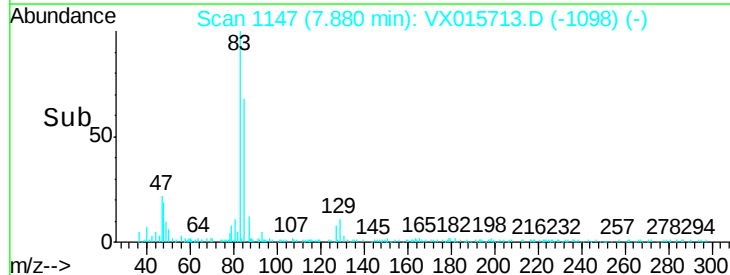
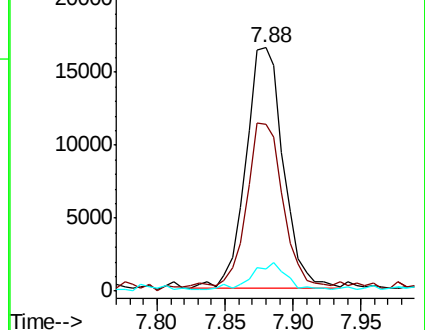
127 8.3 6.7 10.1

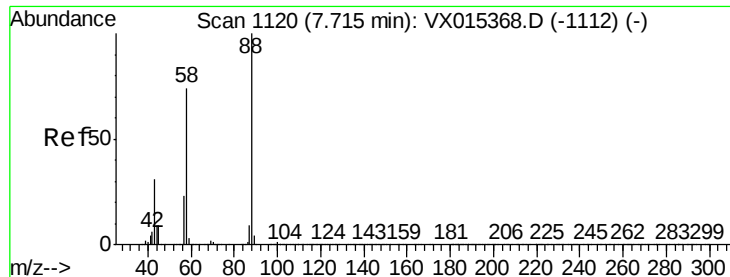


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#49

1,4-Dioxane

Concen: 0.594 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.01 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

Z5-S1SVEGW-200407

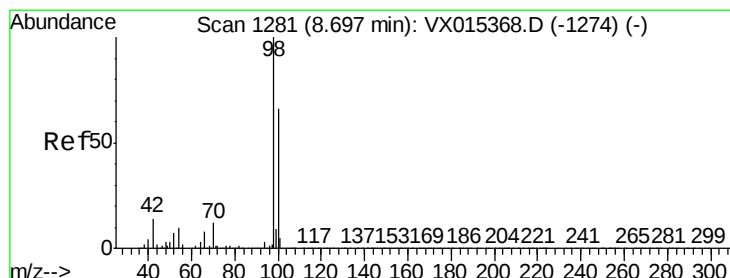
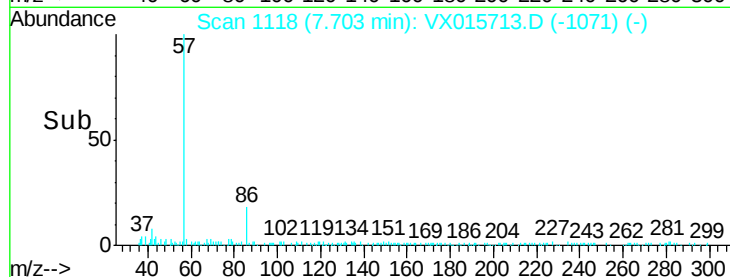
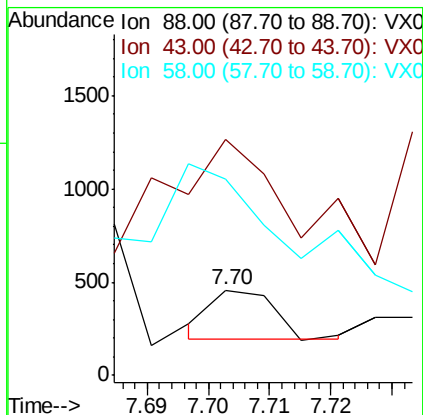
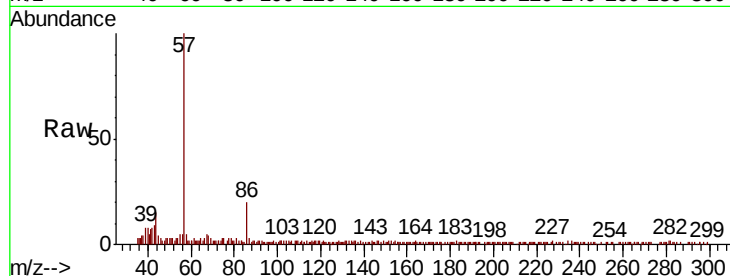
Tot Ion: 88 Resp: 183

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 745.9 60.6 90.8#



#50

Toluene-d8

Concen: 50.320 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015713.D

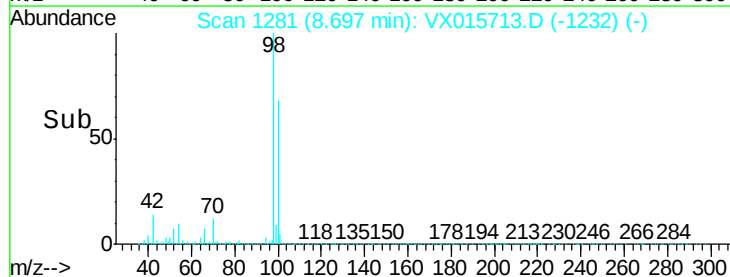
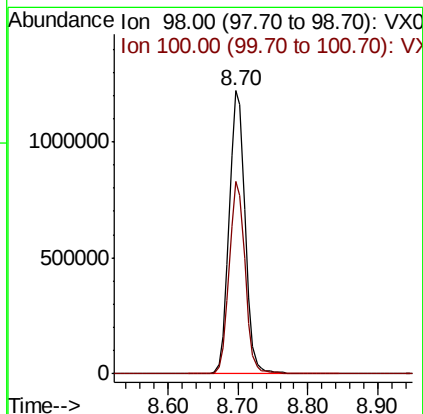
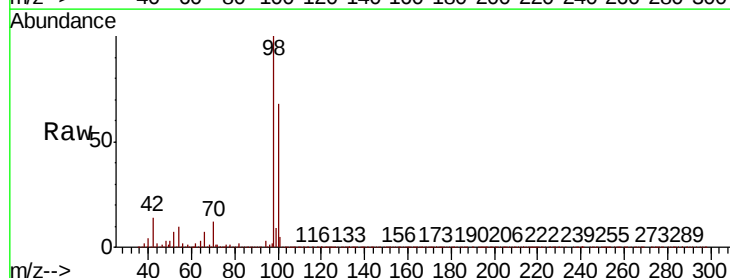
Acq: 16 Apr 2020 15:38

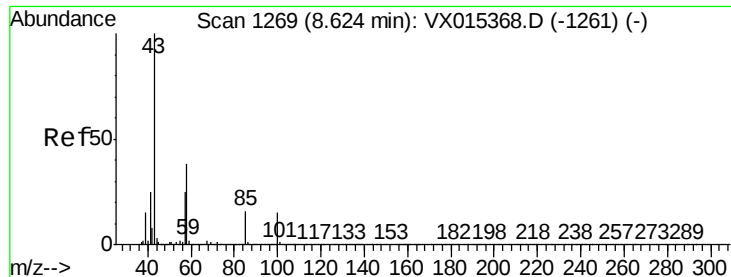
Tgt Ion: 98 Resp: 1931841

Ion Ratio Lower Upper

98 100

100 67.8 53.5 80.3

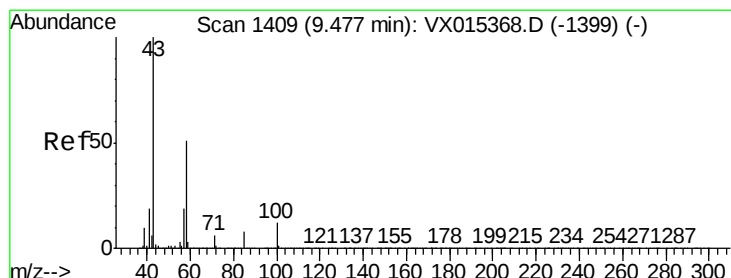
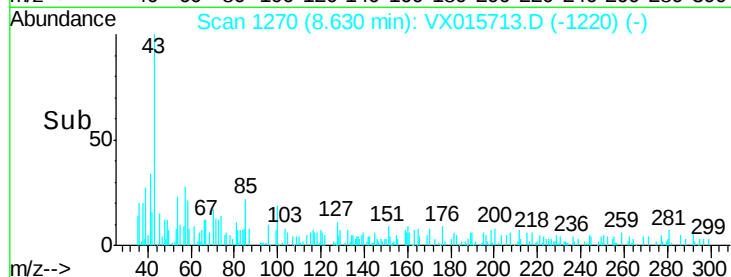
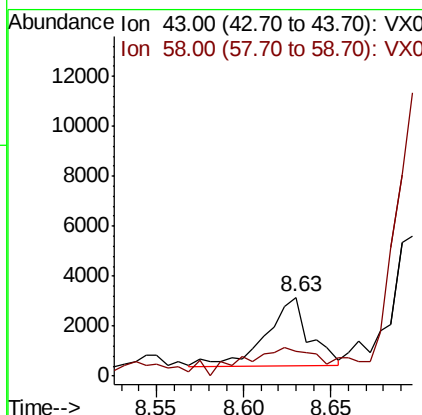
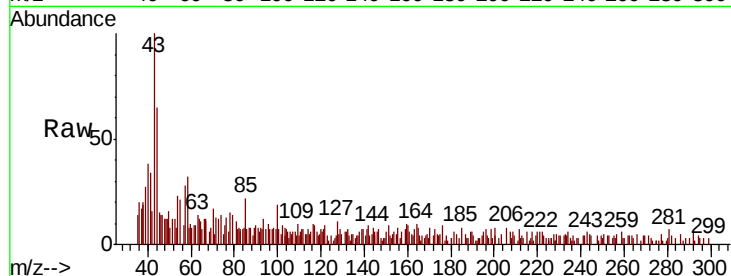




#51  
4-Methyl-2-Pentanone  
Concen: 0.254 ug/l  
RT: 8.63 min Scan# 1270  
Delta R.T. 0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

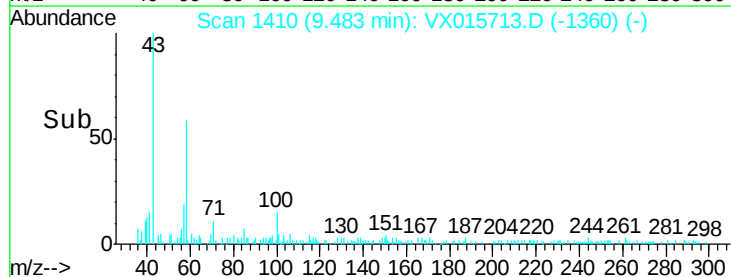
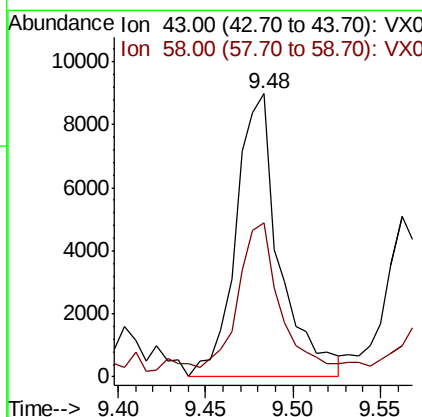
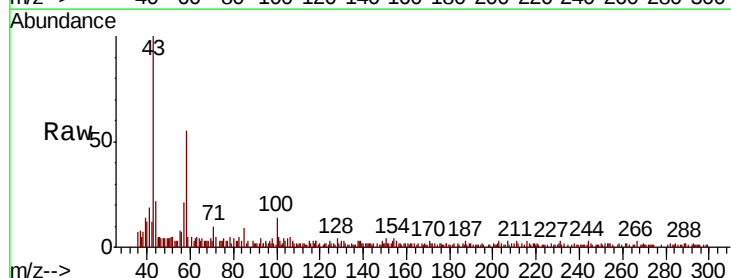
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z5-S1SVEGW-200407

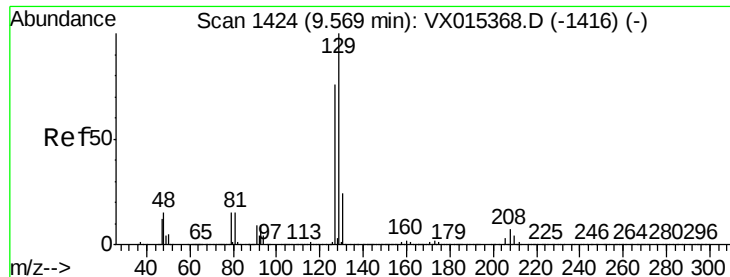
Tot Ion: 43 Resp: 4761  
Ion Ratio Lower Upper  
43 100  
58 66.6 29.7 44.5#



#59  
2-Hexanone  
Concen: 1.098 ug/l  
RT: 9.48 min Scan# 1410  
Delta R.T. 0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

Tgt Ion: 43 Resp: 15521  
Ion Ratio Lower Upper  
43 100  
58 46.2 25.6 76.6





#60

Dibromochloromethane

Concen: 3.547 ug/l

RT: 9.56 min Scan# 1423

Delta R.T. -0.01 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

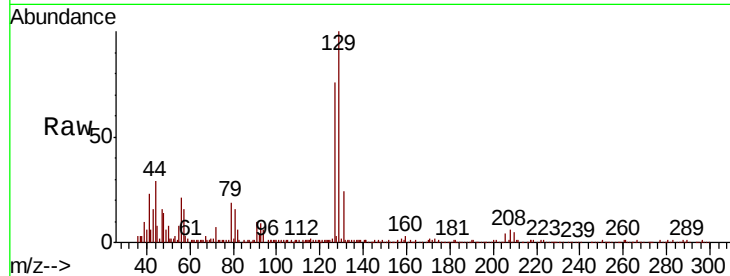
Z5-S1SVEGW-200407

Tot Ion:129 Resp: 47397

Ion Ratio Lower Upper

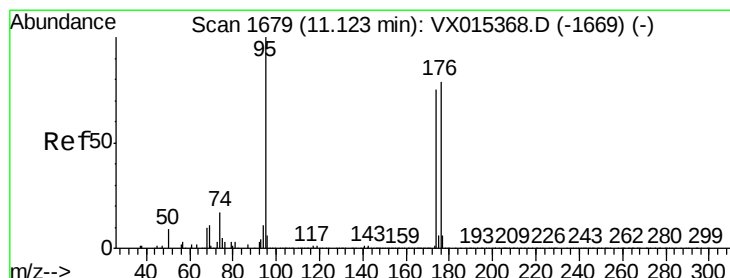
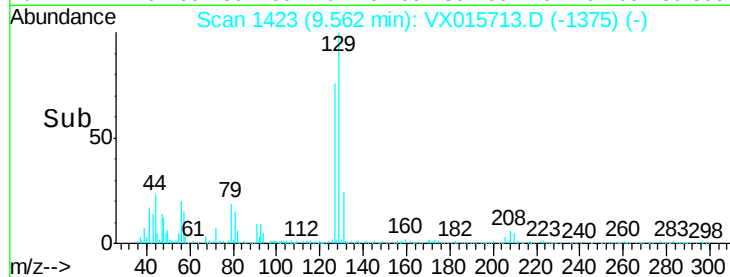
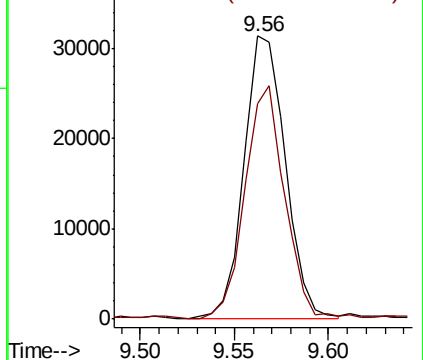
129 100

127 80.5 38.2 114.6



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 52.878 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

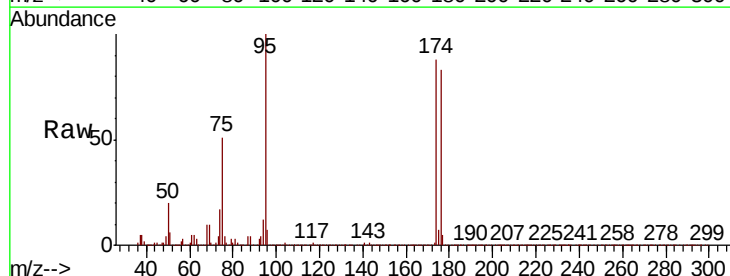
Tgt Ion: 95 Resp: 825003

Ion Ratio Lower Upper

95 100

174 86.3 0.0 158.6

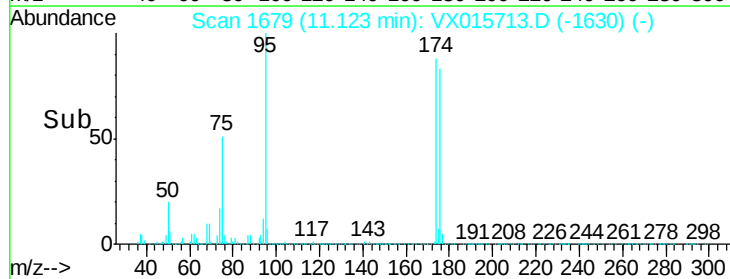
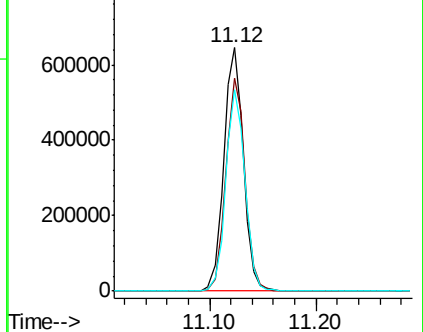
176 81.6 0.0 159.0

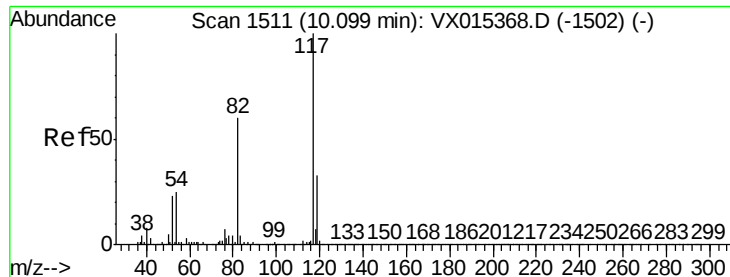


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

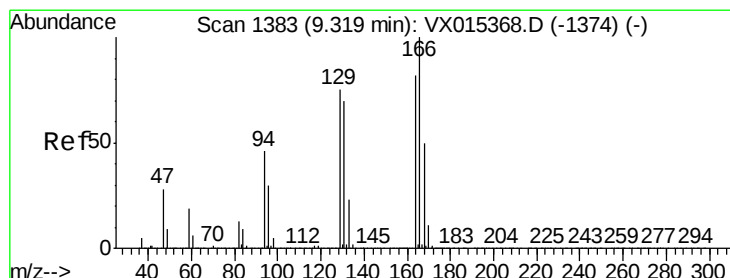
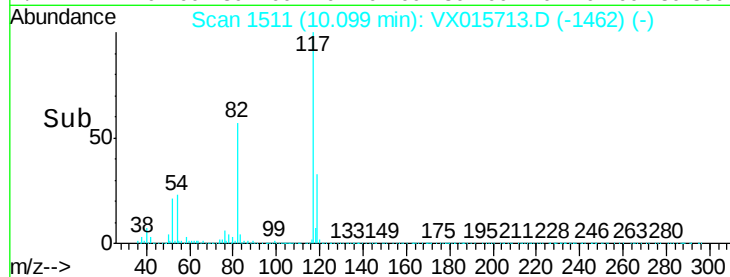
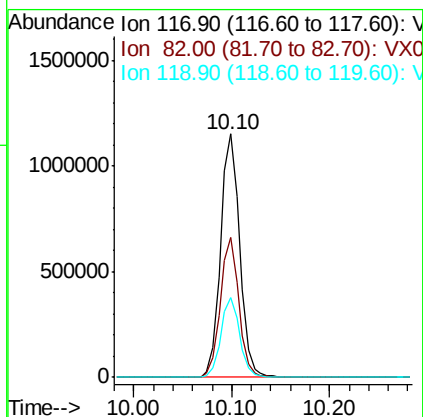
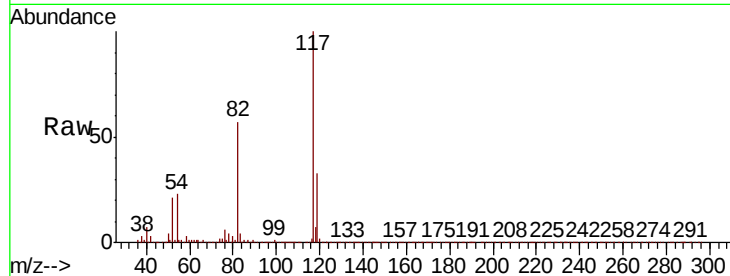




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. -0.00 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

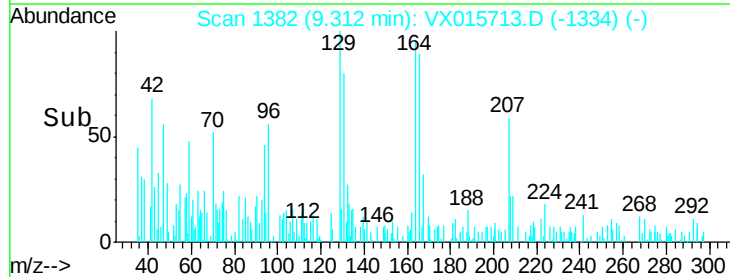
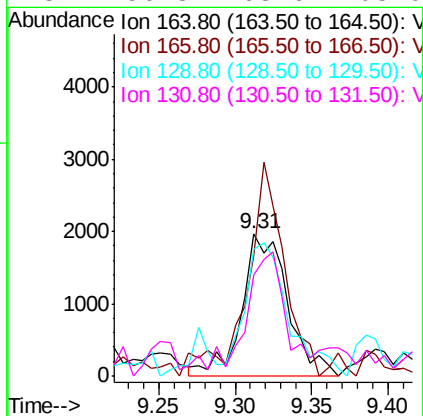
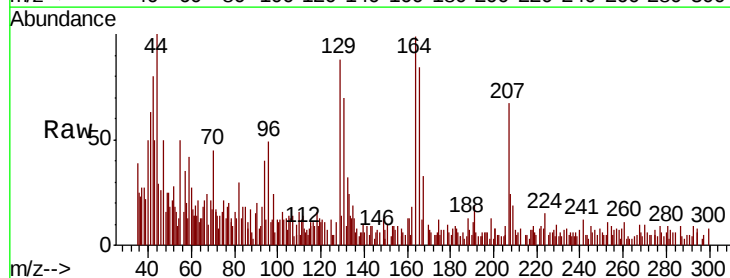
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z5-S1SVEGW-200407

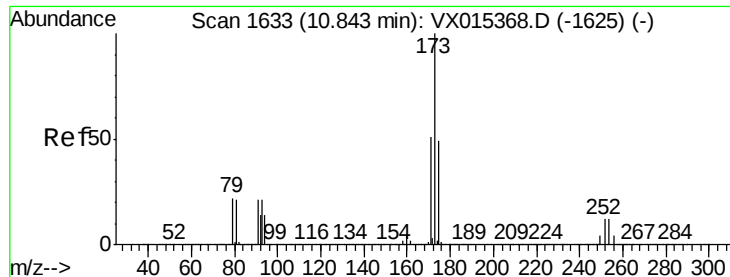
Tot Ion:117 Resp: 1561168  
Ion Ratio Lower Upper  
117 100  
82 57.3 47.8 71.8  
119 32.6 26.8 40.2



#64  
Tetrachloroethene  
Concen: 0.346 ug/l  
RT: 9.31 min Scan# 1382  
Delta R.T. -0.01 min  
Lab File: VX015713.D  
Acq: 16 Apr 2020 15:38

Tgt Ion:164 Resp: 4082  
Ion Ratio Lower Upper  
164 100  
166 68.5 97.8 146.6#  
129 81.8 73.0 109.4  
131 56.8 68.6 103.0#





#71

Bromoform

Concen: 3.466 ug/l

RT: 10.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

Z5-S1SVEGW-200407

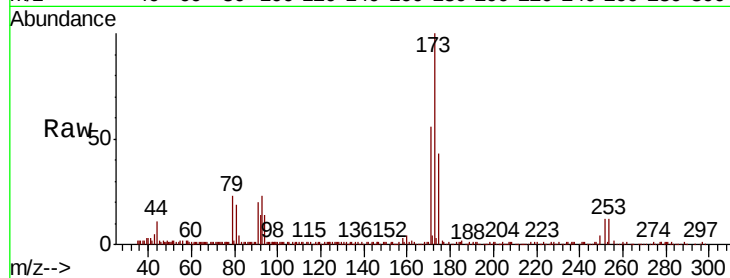
Tot Ion:173 Resp: 39242

Ion Ratio Lower Upper

173 100

175 47.4 23.9 71.7

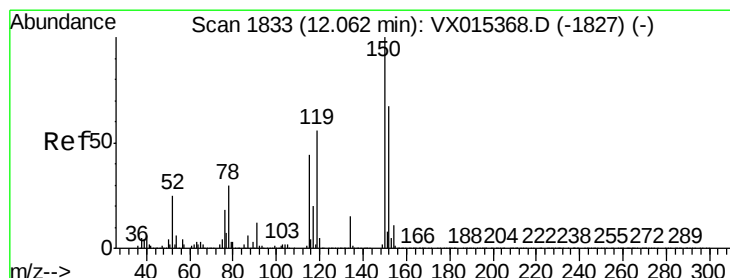
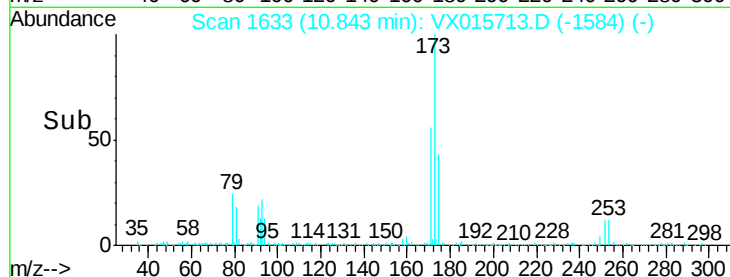
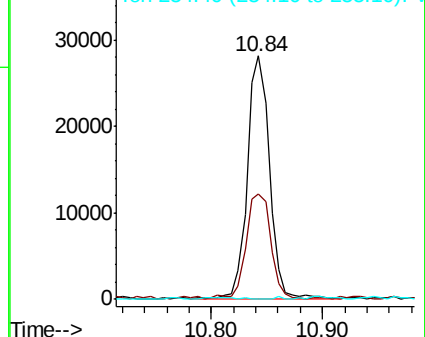
254 0.3 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

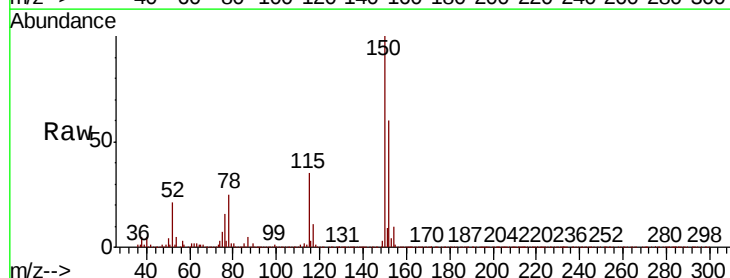
Tgt Ion:152 Resp: 873865

Ion Ratio Lower Upper

152 100

115 55.1 39.0 116.9

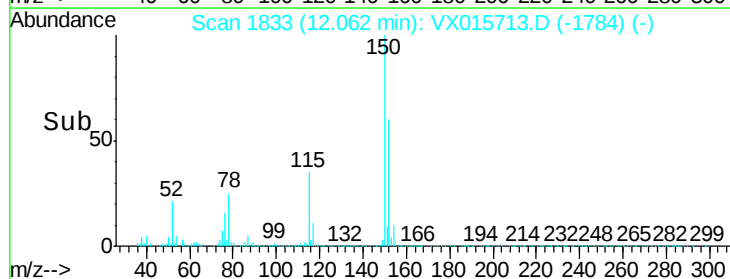
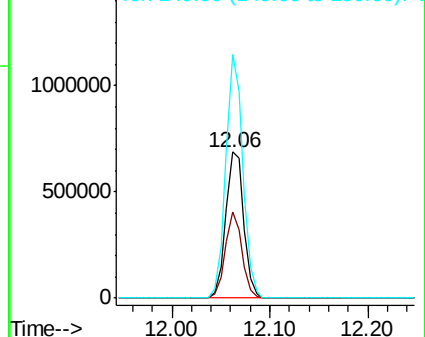
150 158.2 0.0 340.8

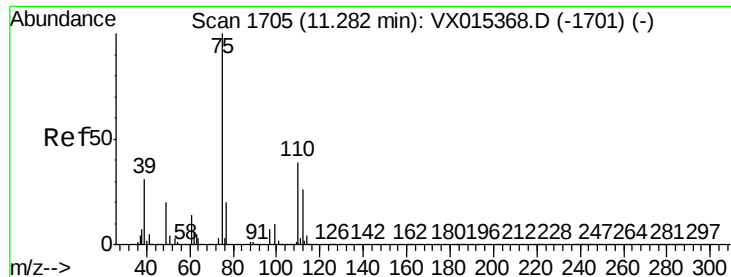


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.718 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Instrument :

MSVOA\_X

ClientSampleId :

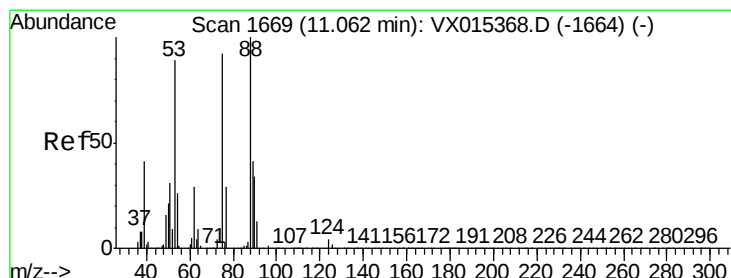
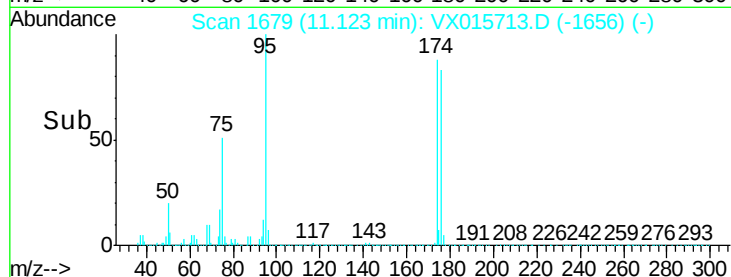
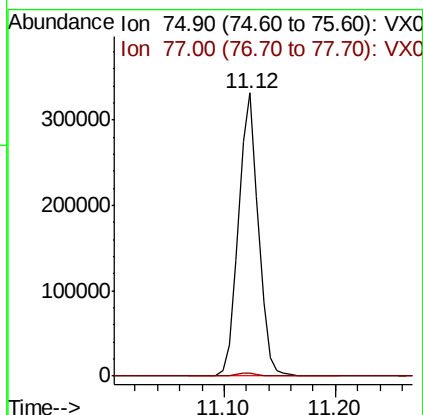
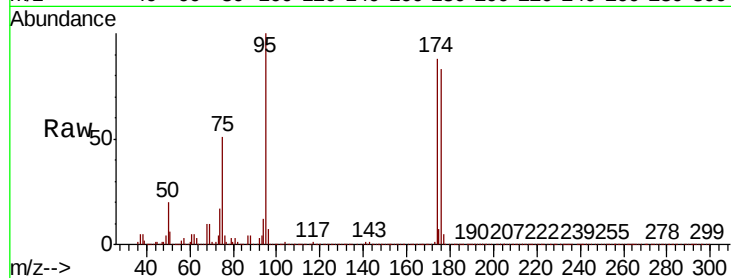
Z5-S1SVEGW-200407

Tot Ion: 75 Resp: 408251

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.511 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015713.D

Acq: 16 Apr 2020 15:38

Tgt Ion: 75 Resp: 408251

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#

