

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032620\  
 Data File : VX015357.D  
 Acq On : 26 Mar 2020 14:31  
 Operator : JC/SP  
 Sample : L1798-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 27 07:49:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 26 02:31:53 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 214045   | 30.00 | ug/l  | -0.01    |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 1219526  | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 1090200  | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 504599   | 30.17    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.57% |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 566625   | 30.37    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 101.23% |
| 63) Toluene-d8            | 8.70   | 98    | 1444193  | 31.18    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 103.93% |

## Target Compounds

|                               |       |     |         |         | Ovalue    |
|-------------------------------|-------|-----|---------|---------|-----------|
| 3) Chloromethane              | 1.31  | 50  | 590676  | 46.823  | ug/l 98   |
| 5) Bromomethane               | 1.64  | 94  | 177154  | 27.421  | ug/l 99   |
| 11) Methyl Iodide             | 2.49  | 142 | 54246   | 3.502   | ug/l 96   |
| 13) Acrolein                  | 2.26  | 56  | 1562    | 0.704   | ug/l 90   |
| 15) Acetone                   | 2.43  | 58  | 349497  | 188.251 | ug/l 91   |
| 16) Carbon Disulfide          | 2.55  | 76  | 7503    | 0.220   | ug/l # 91 |
| 18) Methylene Chloride        | 2.83  | 84  | 6167    | 0.471   | ug/l # 95 |
| 21) 1,1-Dichloroethane        | 3.67  | 63  | 2714835 | 112.691 | ug/l 99   |
| 23) tert-Butyl Alcohol        | 3.00  | 59  | 1418    | 0.395   | ug/l # 90 |
| 24) Methyl tert-Butyl Ether   | 3.17  | 73  | 4323794 | 99.921  | ug/l 100  |
| 25) Chloroform                | 5.17  | 83  | 1309449 | 54.989  | ug/l 96   |
| 30) 2-Butanone                | 4.64  | 43  | 1171008 | 106.615 | ug/l 100  |
| 32) 1,1,1-Trichloroethane     | 5.46  | 97  | 453046  | 20.266  | ug/l 99   |
| 33) Carbon Tetrachloride      | 5.75  | 117 | 1437125 | 70.545  | ug/l 98   |
| 34) Benzene                   | 6.11  | 78  | 938836  | 17.779  | ug/l 99   |
| 37) Trichloroethene           | 7.19  | 130 | 46396   | 3.120   | ug/l 99   |
| 40) Dibromomethane            | 7.64  | 93  | 292268  | 30.958  | ug/l 99   |
| 41) Bromodichloromethane      | 7.87  | 83  | 760587  | 37.070  | ug/l 99   |
| 45) 1,4-Dioxane               | 7.62  | 88  | 770     | 2.174   | ug/l 89   |
| 48) t-1,3-Dichloropropene     | 9.02  | 75  | 2088835 | 88.188  | ug/l 100  |
| 49) cis-1,3-Dichloropropene   | 8.42  | 75  | 722787  | 29.564  | ug/l 96   |
| 53) Dibromochloromethane      | 9.56  | 129 | 1195903 | 71.604  | ug/l 100  |
| 56) Bromoform                 | 10.84 | 173 | 11596   | 0.844   | ug/l 93   |
| 58) 4-Methyl-2-Pentanone      | 8.62  | 43  | 1395050 | 66.861  | ug/l 99   |
| 59) 2-Hexanone                | 9.47  | 43  | 863141  | 54.377  | ug/l 99   |
| 61) Tetrachloroethene         | 9.32  | 164 | 6146    | 0.439   | ug/l 97   |
| 62) Toluene                   | 8.76  | 91  | 1181024 | 21.388  | ug/l 100  |
| 64) Chlorobenzene             | 10.12 | 112 | 3186513 | 89.754  | ug/l 99   |
| 65) 1,1,1,2-Tetrachloroethane | 10.20 | 131 | 387398  | 26.703  | ug/l 98   |
| 66) Ethyl Benzene             | 10.24 | 91  | 4151039 | 65.803  | ug/l 99   |
| 67) m/p-Xylenes               | 10.34 | 106 | 1604496 | 67.201  | ug/l 100  |
| 68) o-Xylene                  | 10.68 | 106 | 1741520 | 74.623  | ug/l 98   |
| 69) Styrene                   | 10.70 | 104 | 2914935 | 71.690  | ug/l 100  |
| 71) 1,1,2,2-Tetrachloroethane | 11.25 | 83  | 2434850 | 121.425 | ug/l 99   |
| 72) 1,2,3-Trichloropropane    | 11.28 | 75  | 1199032 | 63.905  | ug/l 87   |
| 83) 1,3-Dichlorobenzene       | 12.01 | 146 | 2116359 | 70.869  | ug/l 100  |
| 84) 1,4-Dichlorobenzene       | 12.08 | 146 | 933012  | 31.307  | ug/l 99   |

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Sample : L1798-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Mar 27 07:49:57 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Mar 26 02:31:53 2020  
Response via : Initial Calibration

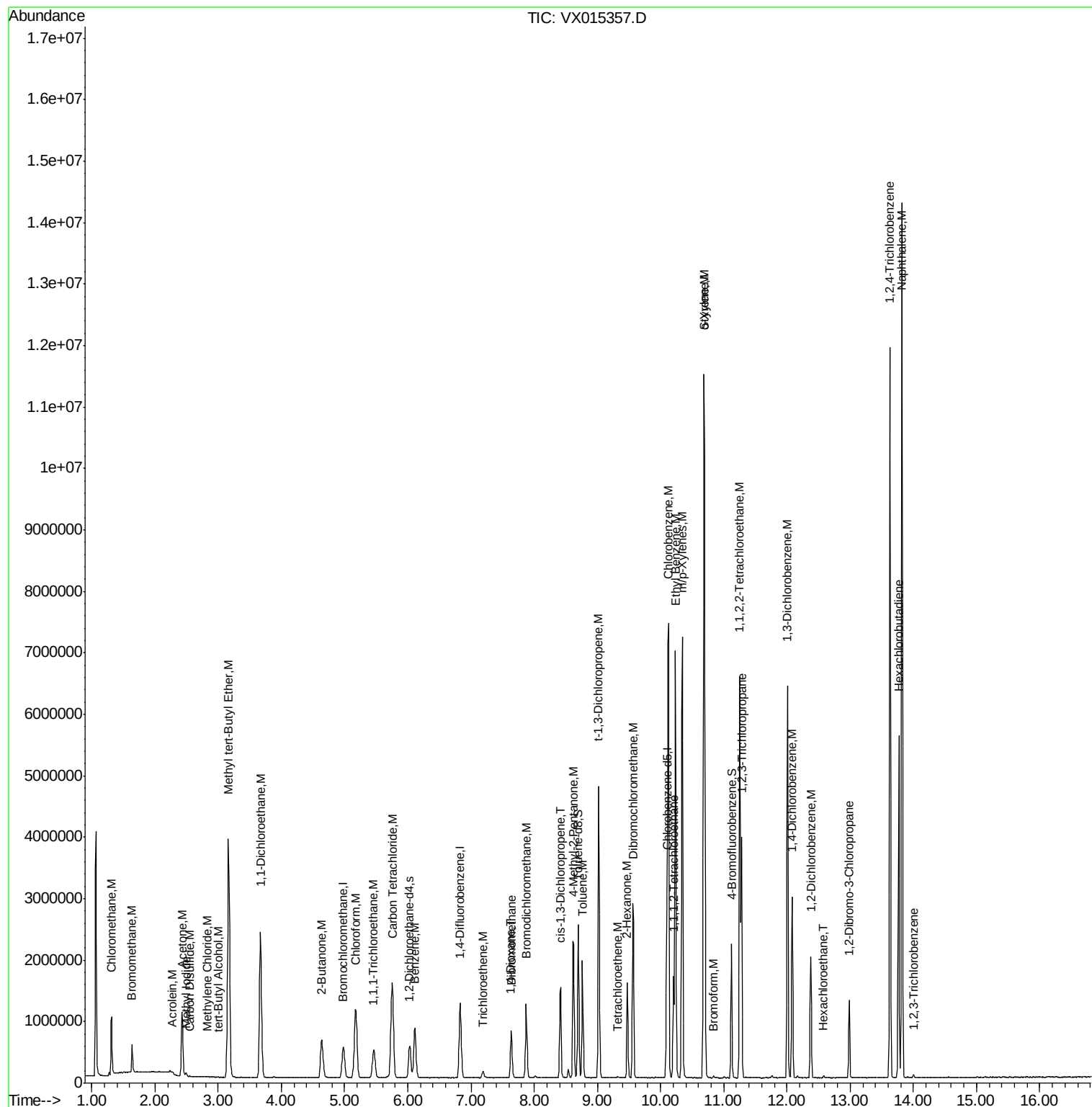
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 86) Hexachloroethane           | 12.58 | 117  | 7583     | 0.683   | ug/l  | 94       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 640793   | 21.994  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 251160   | 47.553  | ug/l  | 99       |
| 89) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 2810682  | 119.758 | ug/l  | 99       |
| 90) Hexachlorobutadiene        | 13.77 | 225  | 860543   | 69.603  | ug/l  | 98       |
| 91) Naphthalene                | 13.82 | 128  | 8391190  | 123.470 | ug/l  | 98       |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 13531    | 0.580   | ug/l  | 98       |

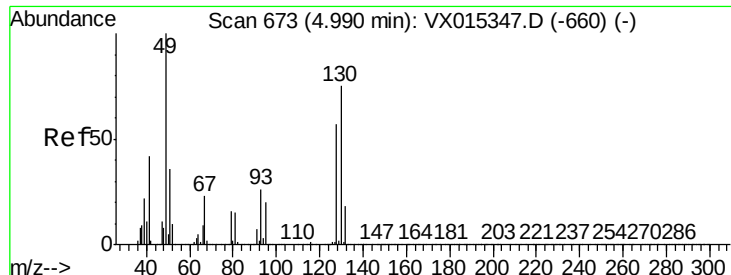
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032620\  
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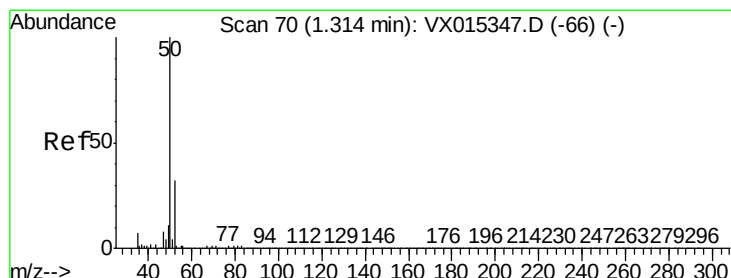
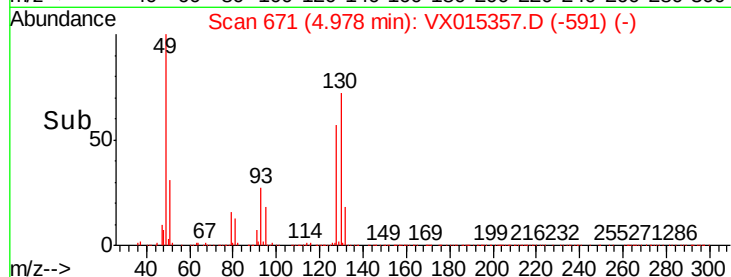
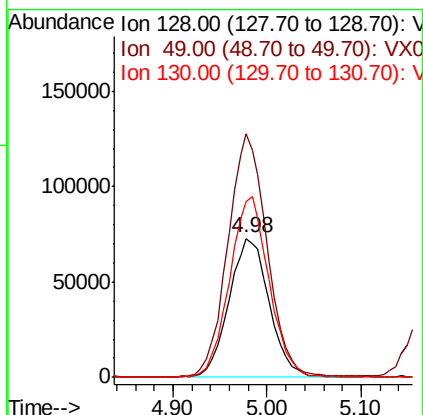
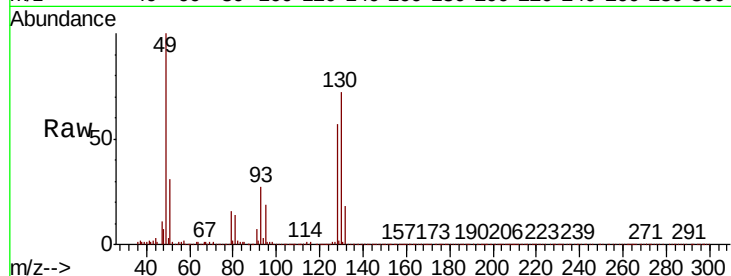




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.98 min Scan# 671  
Delta R.T. -0.01 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

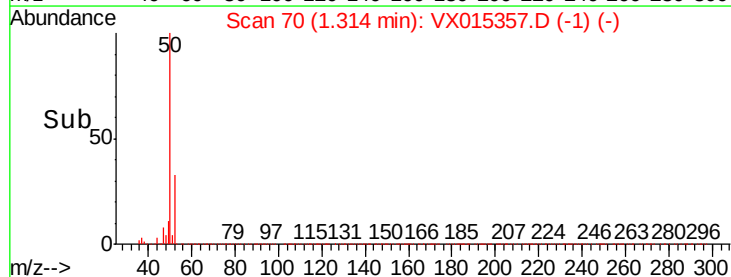
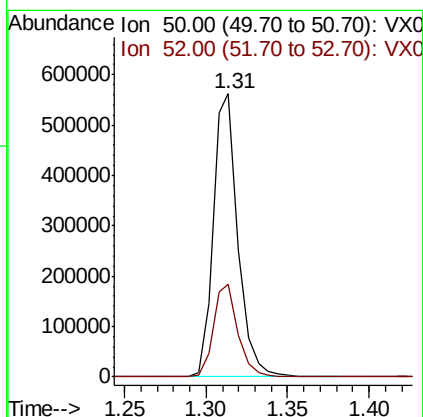
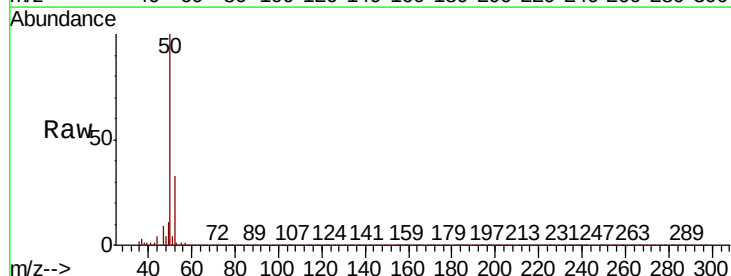
Instrument :  
MSVOA\_X  
ClientSampleId :

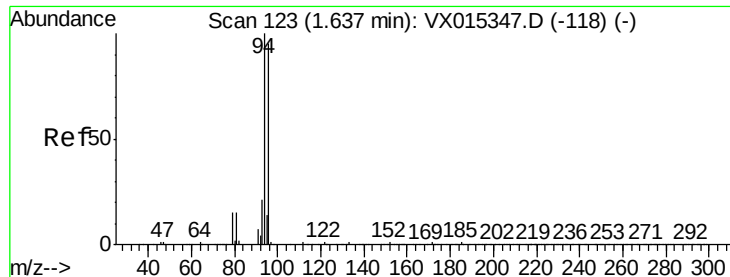
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 171.6 | 0.0   | 428.0 |
| 130     | 128.3 | 0.0   | 324.5 |



#3  
Chloromethane  
Concen: 46.823 ug/l  
RT: 1.31 min Scan# 70  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 32.8  | 25.5  | 38.3  |





#5

Bromomethane

Concen: 27.421 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

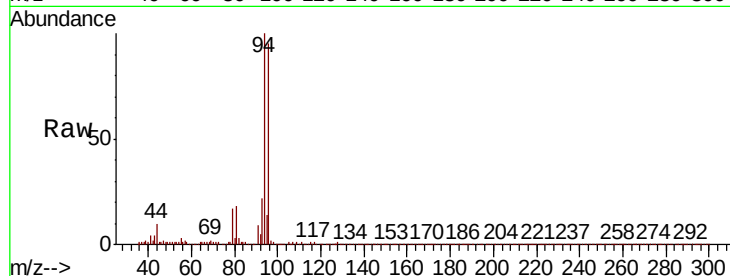
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 94 Resp: 177154

Ion Ratio Lower Upper

94 100

96 94.5 76.1 114.1



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

1.64

150000

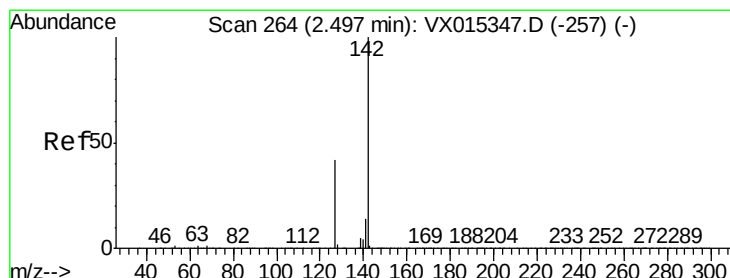
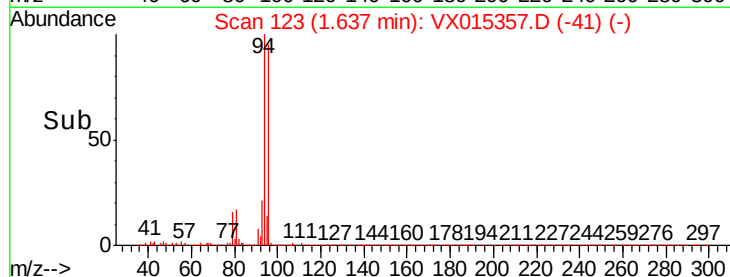
100000

50000

0

Time-->

1.60 1.65 1.70



#11

Methyl Iodide

Concen: 3.502 ug/l

RT: 2.49 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

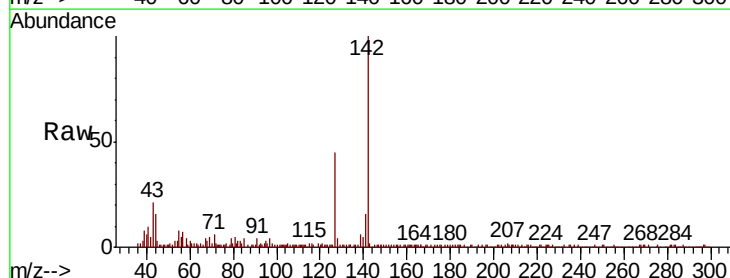
Tgt Ion:142 Resp: 54246

Ion Ratio Lower Upper

142 100

127 44.7 21.0 63.0

141 14.9 6.9 20.7



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

40000

30000

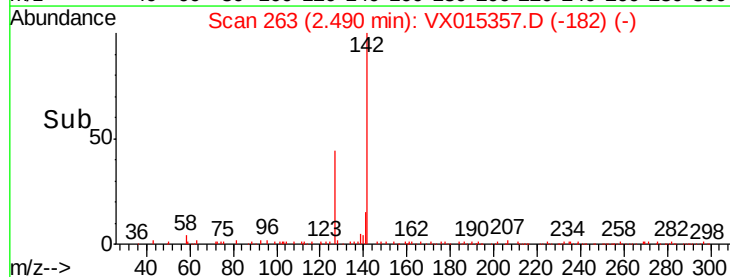
20000

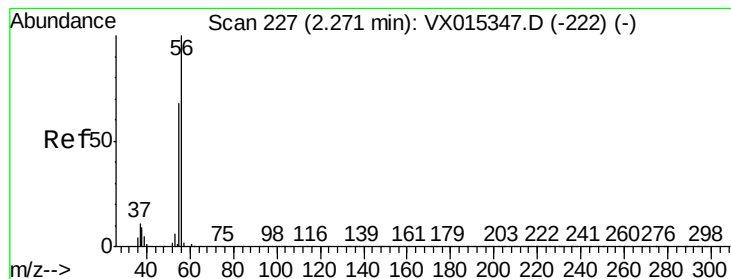
10000

0

Time-->

2.45 2.50 2.55





#13

Acrolein

Concen: 0.704 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

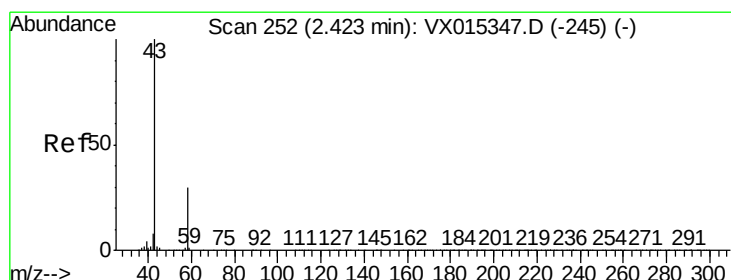
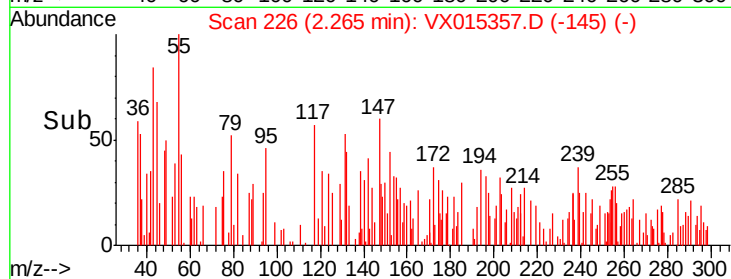
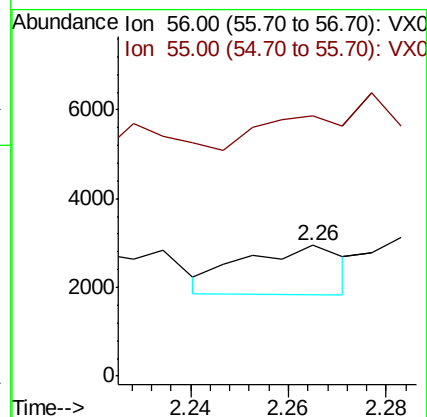
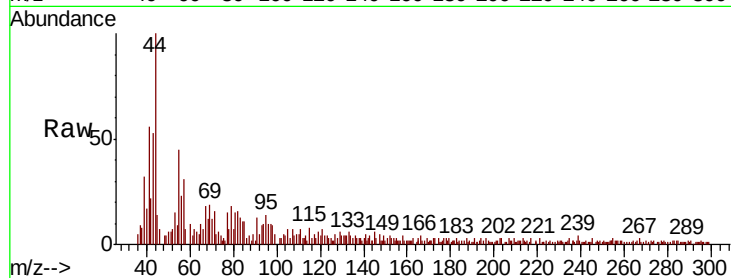
ClientSampled :

Tot Ion: 56 Resp: 1562

Ion Ratio Lower Upper

56 100

55 59.1 53.5 80.3



#15

Acetone

Concen: 188.251 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.01 min

Lab File: VX015357.D

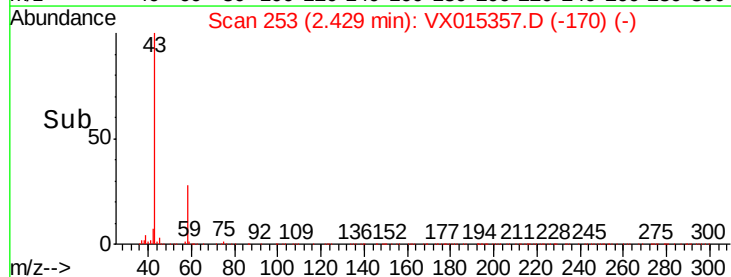
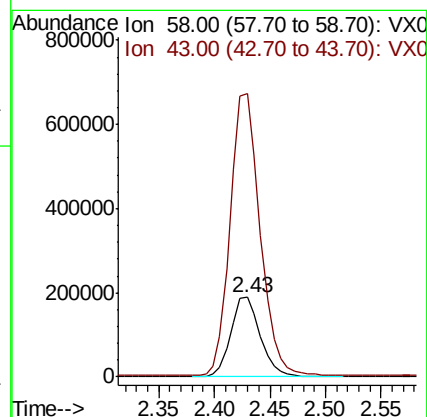
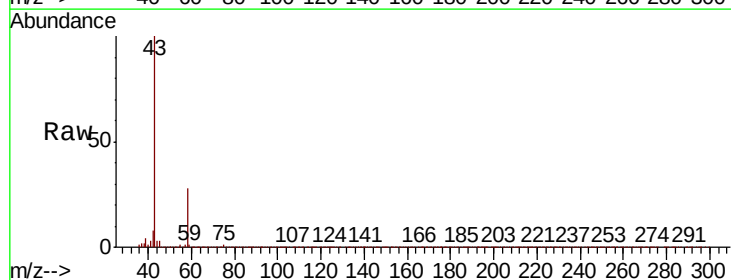
Acq: 26 Mar 2020 14:31

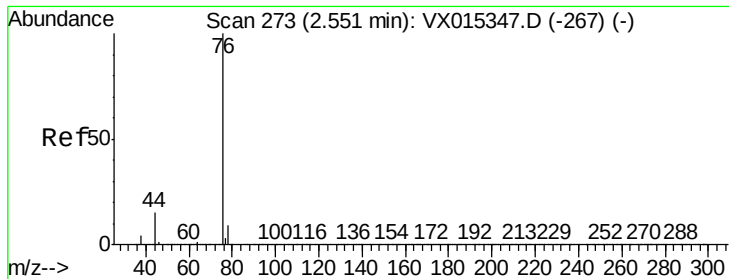
Tgt Ion: 58 Resp: 349497

Ion Ratio Lower Upper

58 100

43 353.4 267.8 401.8





#16

Carbon Disulfide

Concen: 0.220 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

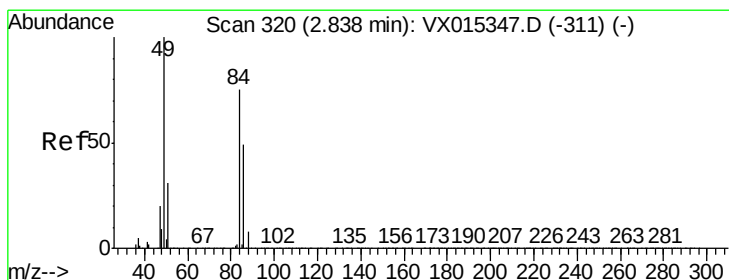
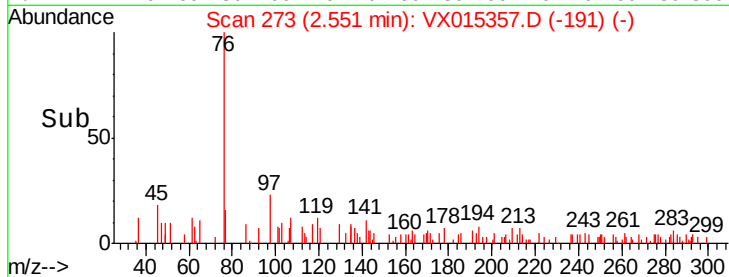
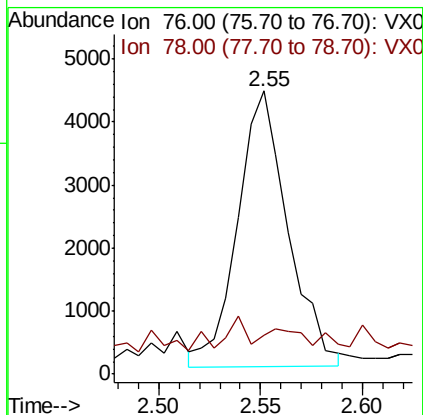
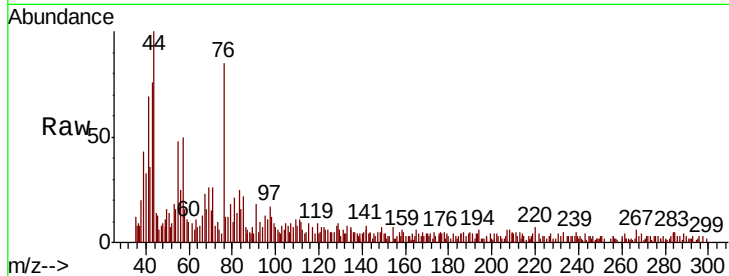
ClientSampled :

Tot Ion: 76 Resp: 7503

Ion Ratio Lower Upper

76 100

78 6.0 7.4 11.2#



#18

Methylene Chloride

Concen: 0.471 ug/l

RT: 2.83 min Scan# 319

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Tgt Ion: 84 Resp: 6167

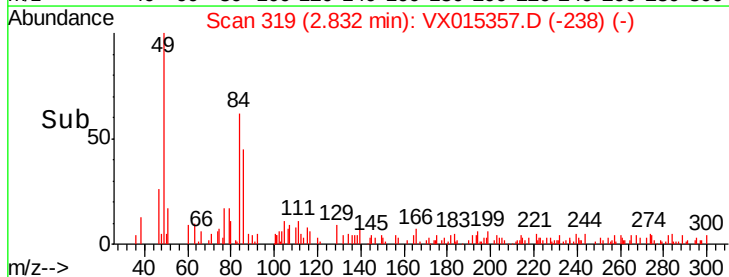
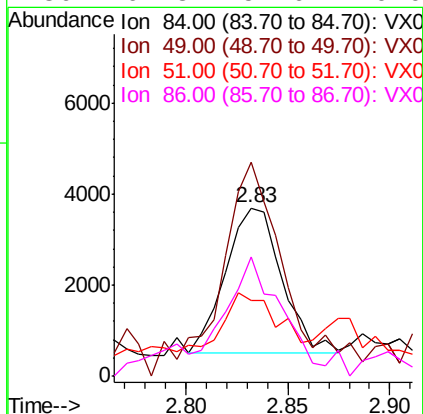
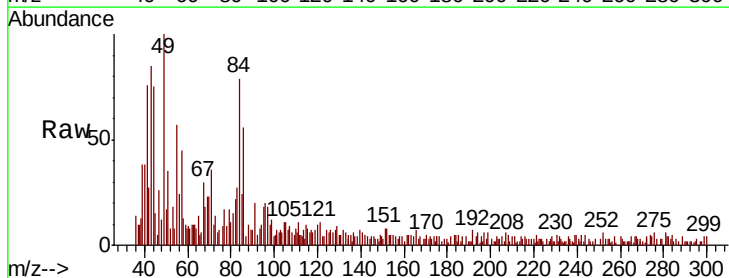
Ion Ratio Lower Upper

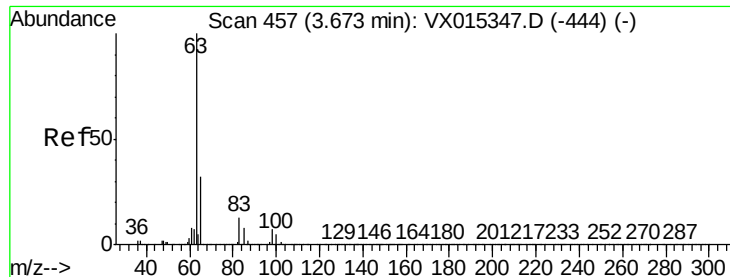
84 100

49 130.7 107.0 160.4

51 30.4 33.4 50.0#

86 67.3 52.6 79.0





#21

1,1-Dichloroethane

Concen: 112.691 ug/l

RT: 3.67 min Scan# 456

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :  
MSVOA\_X  
ClientSampleId :

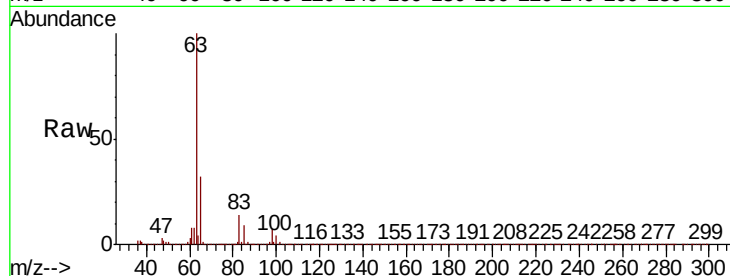
Tot Ion: 63 Resp: 2714835

Ion Ratio Lower Upper

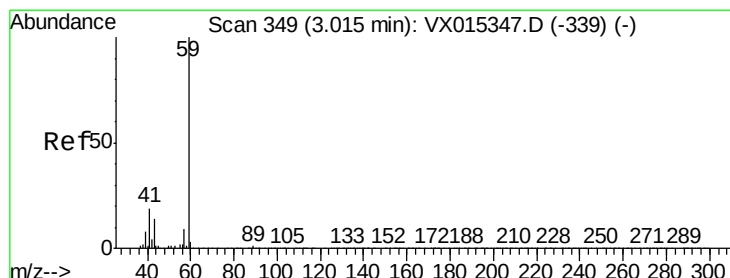
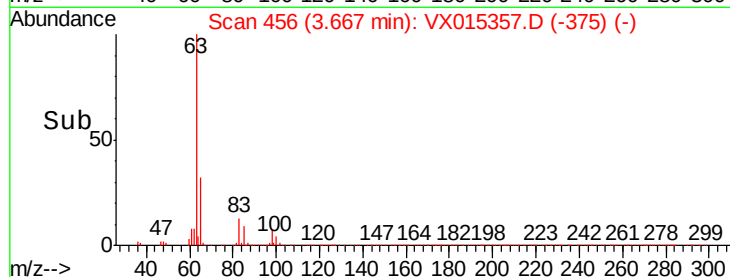
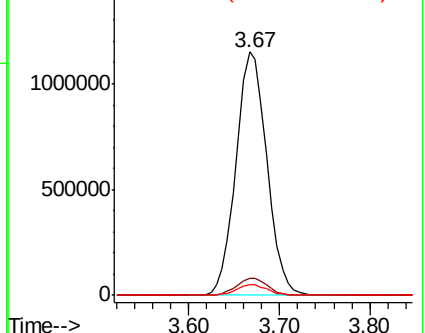
63 100

98 6.9 3.3 9.9

100 4.4 2.3 6.8



Abundance Ion 63.00 (62.70 to 63.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): VX0



#23

tert-Butyl Alcohol

Concen: 0.395 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015357.D

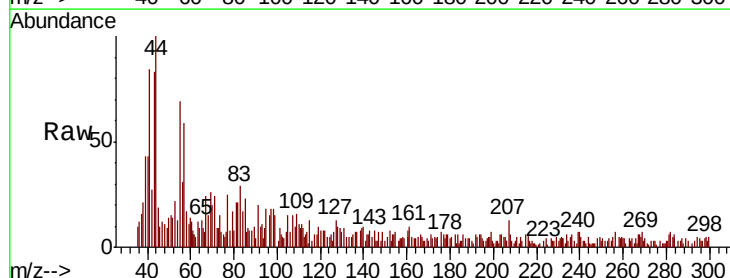
Acq: 26 Mar 2020 14:31

Tgt Ion: 59 Resp: 1418

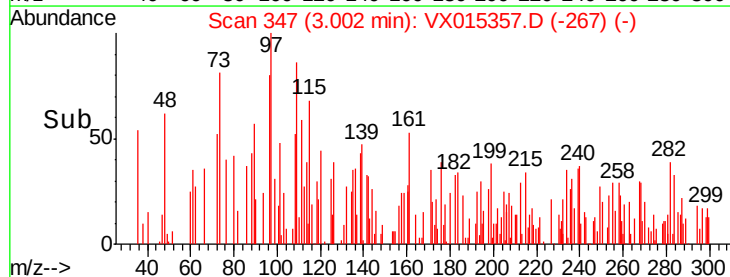
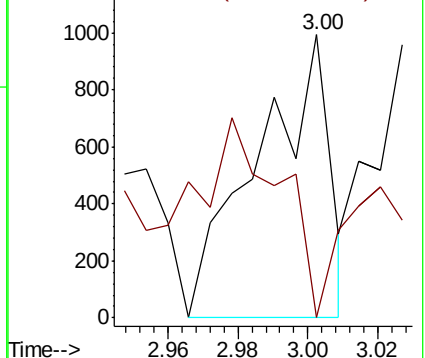
Ion Ratio Lower Upper

59 100

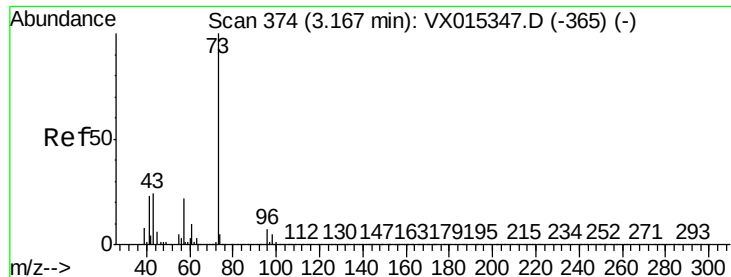
52 13.0 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0





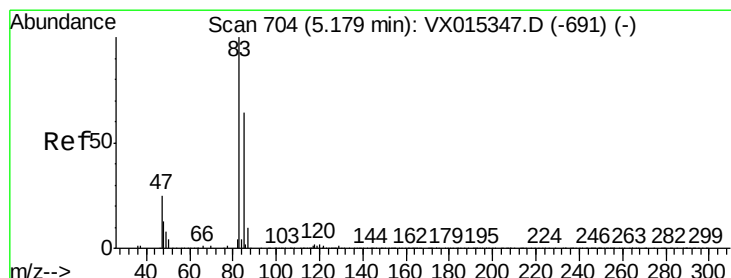
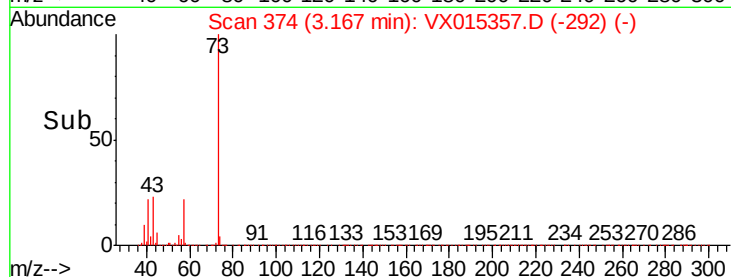
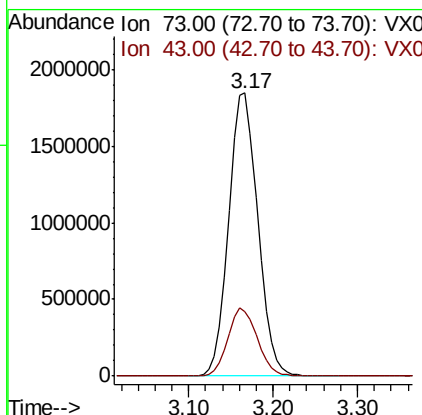
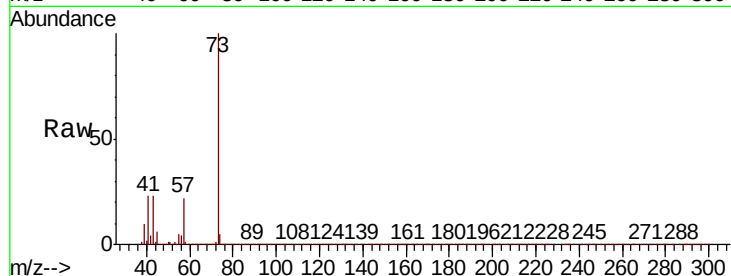


#24

Methyl tert-Butyl Ether  
 Concen: 99.921 ug/l  
 RT: 3.17 min Scan# 374  
 Delta R.T. -0.00 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

Instrument :  
 MSVOA\_X  
 ClientSampled :

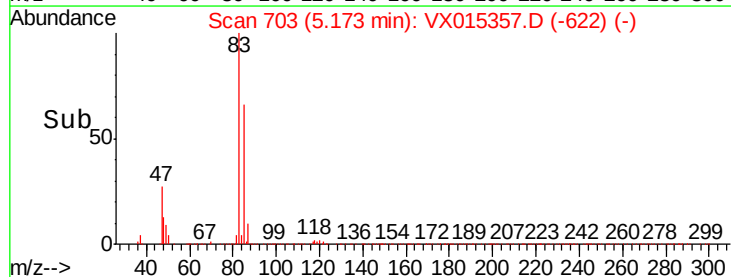
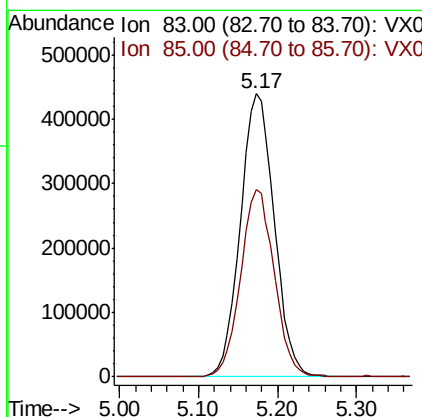
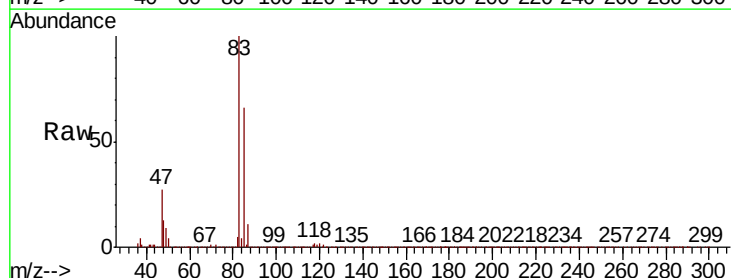
Tot Ion: 73 Resp: 4323794  
 Ion Ratio Lower Upper  
 73 100  
 43 23.8 19.2 28.8

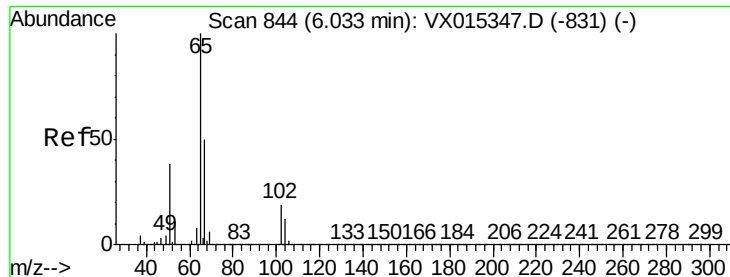


#25

Chloroform  
 Concen: 54.989 ug/l  
 RT: 5.17 min Scan# 703  
 Delta R.T. -0.01 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

Tgt Ion: 83 Resp: 1309449  
 Ion Ratio Lower Upper  
 83 100  
 85 66.2 50.5 75.7





#27

1,2-Dichloroethane-d4

Concen: 30.169 ug/l

RT: 6.03 min Scan# 843

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

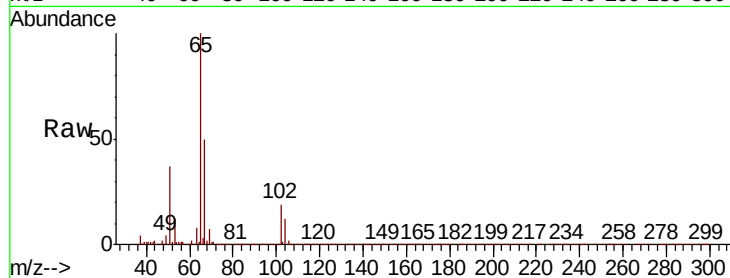
ClientSampled :

Tot Ion: 65 Resp: 504599

Ion Ratio Lower Upper

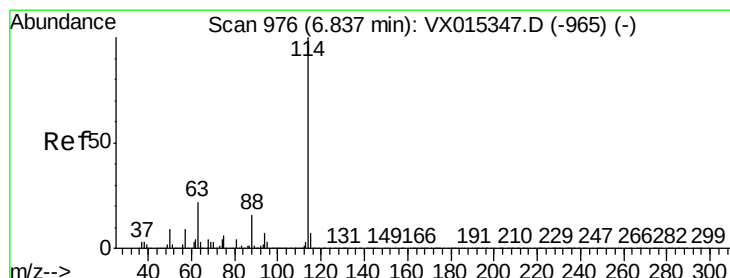
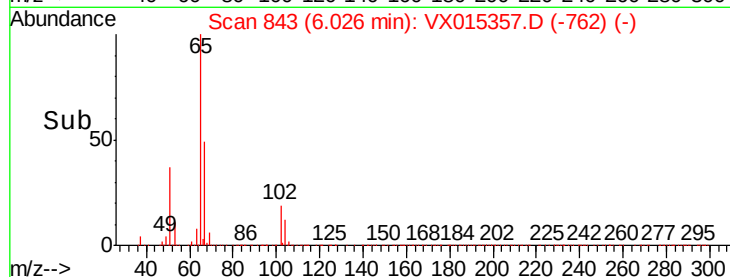
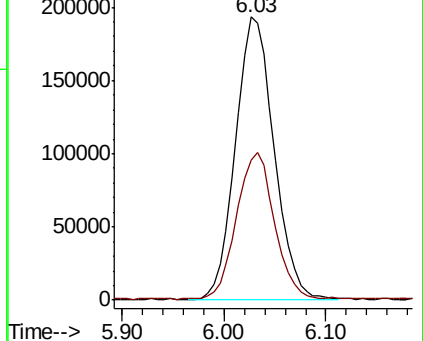
65 100

67 51.0 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

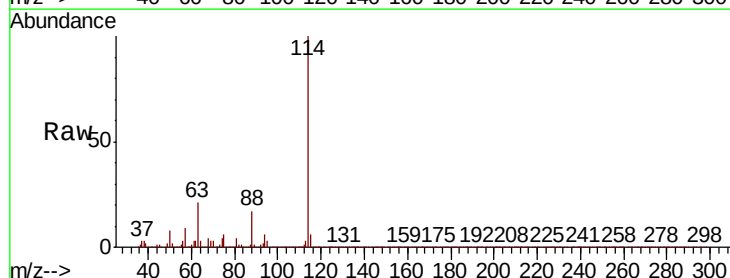
Tgt Ion: 114 Resp: 1219526

Ion Ratio Lower Upper

114 100

63 22.1 17.4 26.2

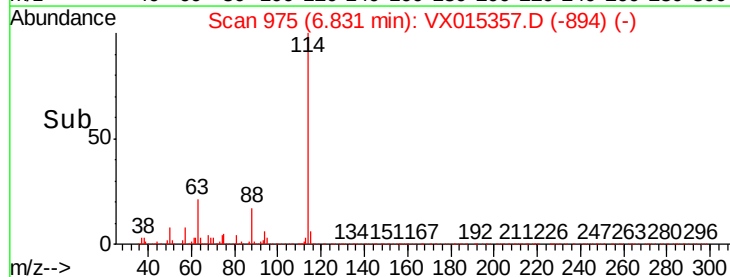
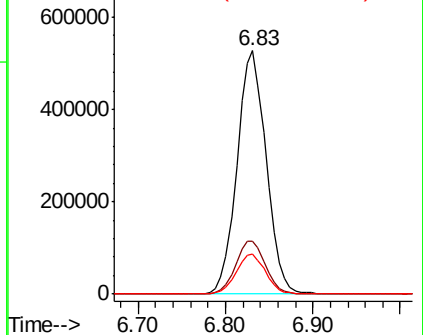
88 16.5 12.9 19.3

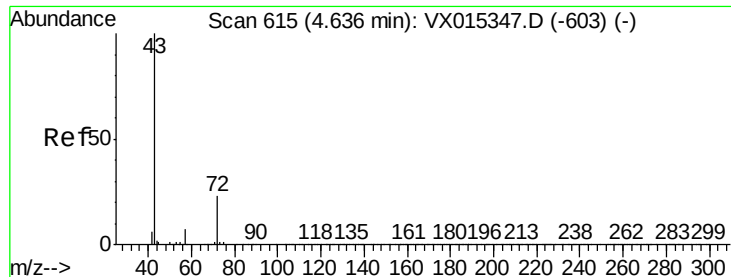


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

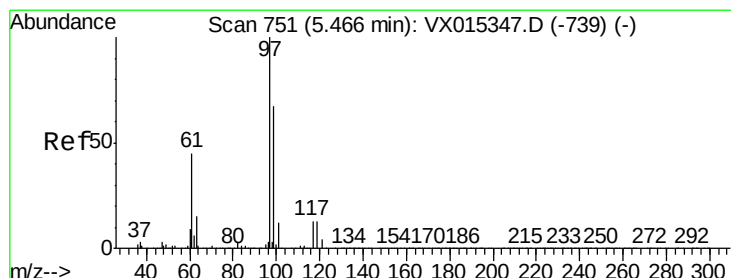
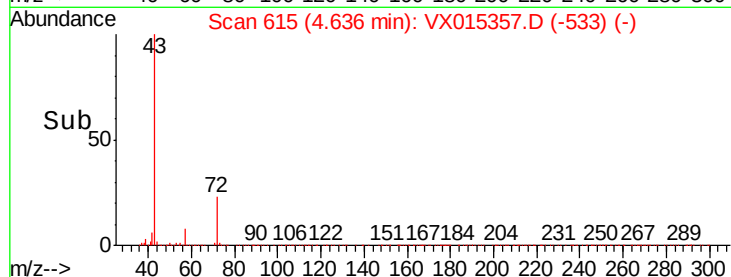
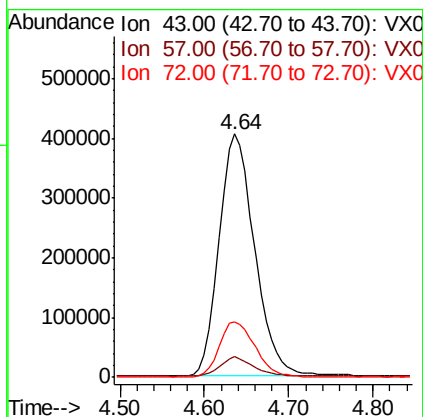
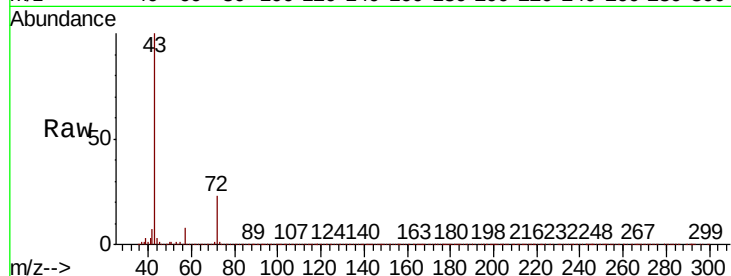




#30  
2-Butanone  
Concen: 106.615 ug/l  
RT: 4.64 min Scan# 615  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

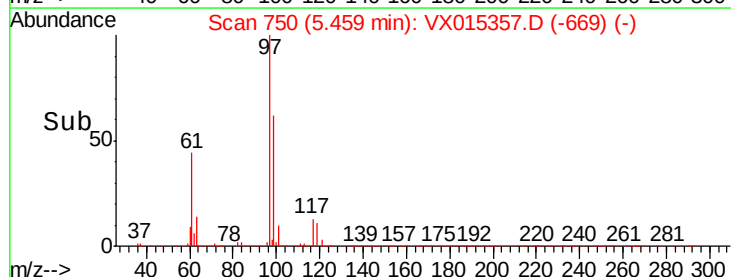
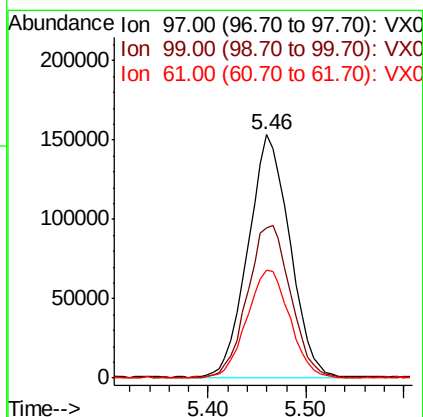
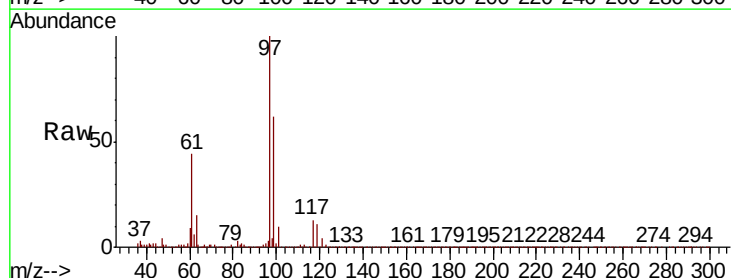
Instrument :  
MSVOA\_X  
ClientSampleId :

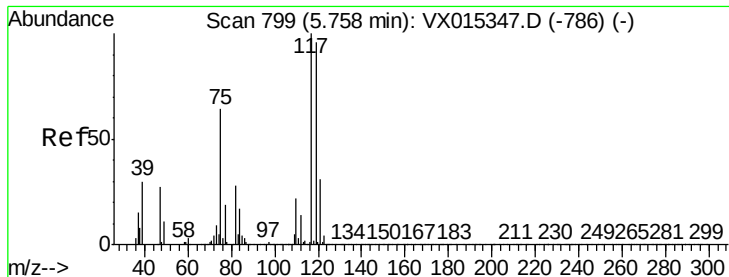
Tot Ion: 43 Resp: 1171008  
Ion Ratio Lower Upper  
43 100  
57 7.3 5.9 8.9  
72 23.1 18.6 27.8



#32  
1,1,1-Trichloroethane  
Concen: 20.266 ug/l  
RT: 5.46 min Scan# 750  
Delta R.T. -0.01 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion: 97 Resp: 453046  
Ion Ratio Lower Upper  
97 100  
99 65.0 51.0 76.4  
61 45.5 35.8 53.8





#33

Carbon Tetrachloride

Concen: 70.545 ug/l

RT: 5.75 min Scan# 798

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

ClientSampleId :

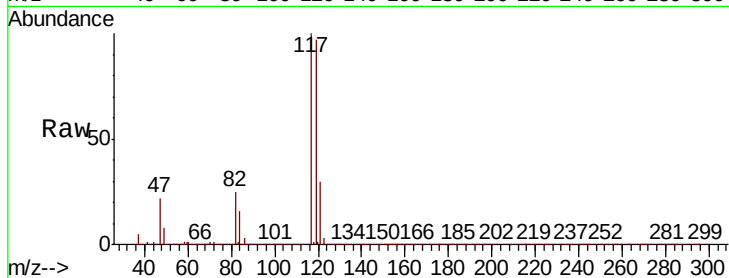
Tot Ion:117 Resp: 1437125

Ion Ratio Lower Upper

117 100

119 97.4 76.6 114.8

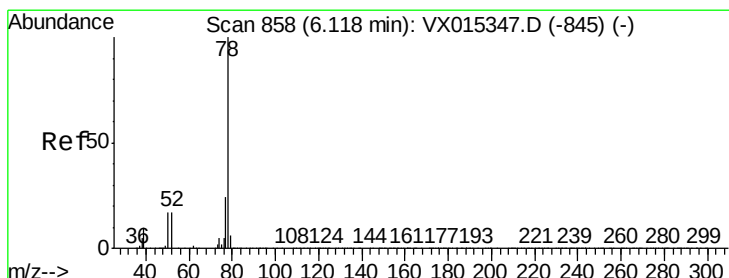
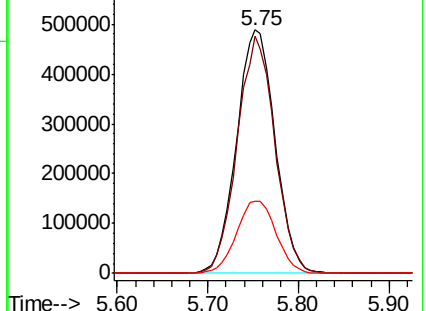
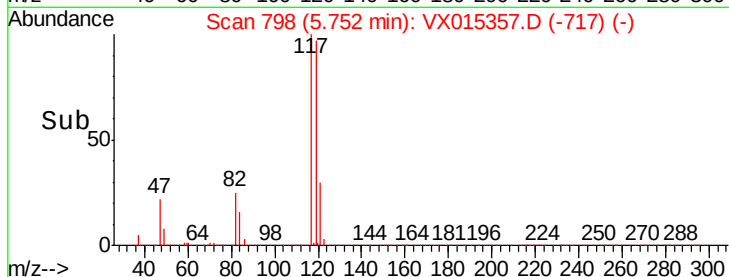
121 29.6 25.0 37.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 17.779 ug/l

RT: 6.11 min Scan# 857

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

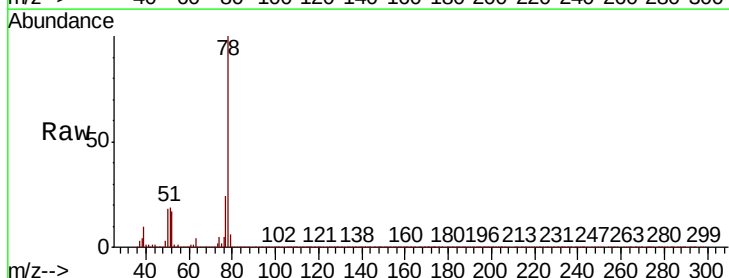
Tgt Ion: 78 Resp: 938836

Ion Ratio Lower Upper

78 100

77 24.0 19.4 29.2

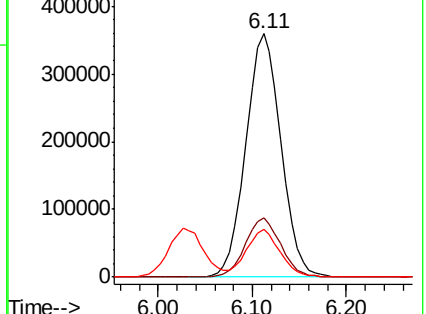
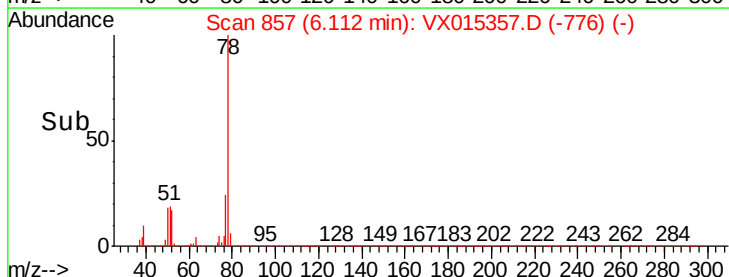
51 19.2 14.6 21.8

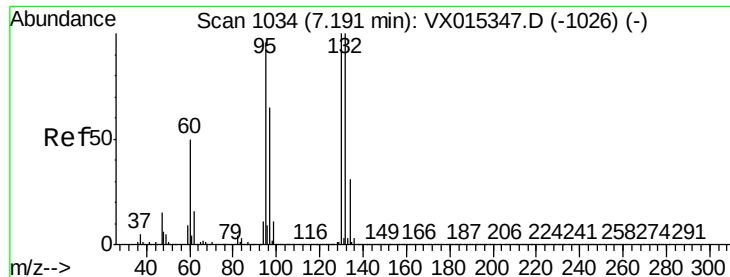


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

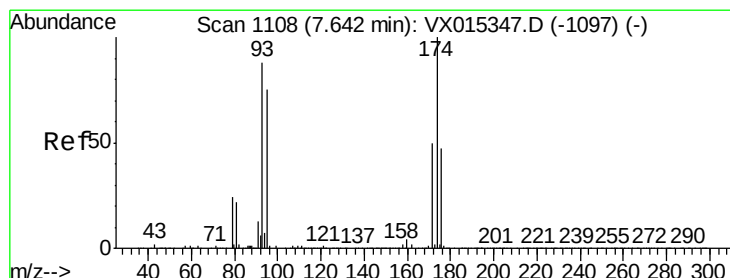
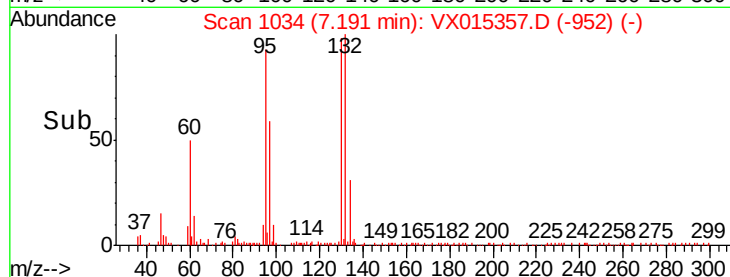
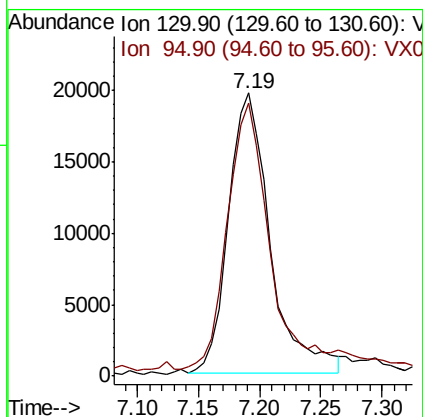
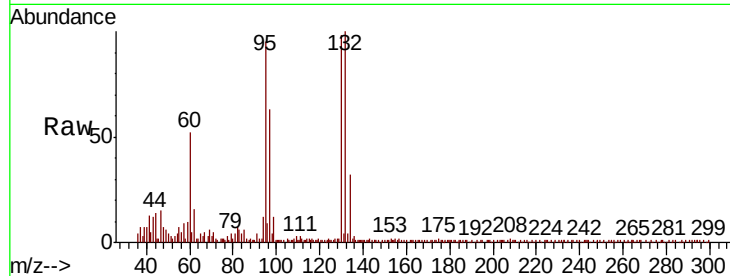




#37  
 Trichloroethene  
 Concen: 3.120 ug/l  
 RT: 7.19 min Scan# 1034  
 Delta R.T. -0.00 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

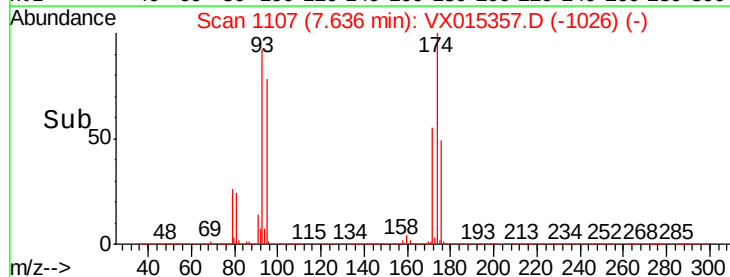
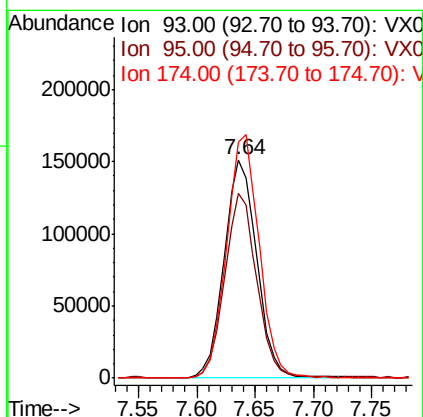
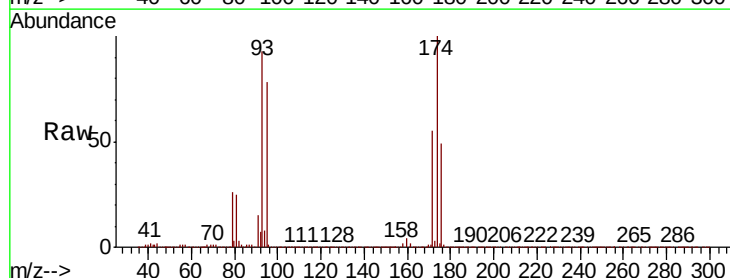
Instrument :  
 MSVOA\_X  
 ClientSampled :

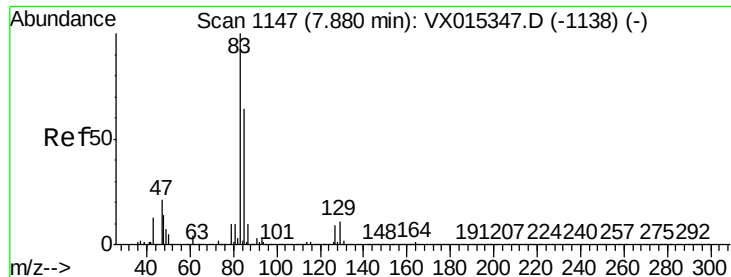
Tot Ion:130 Resp: 46396  
 Ion Ratio Lower Upper  
 130 100  
 95 94.2 76.4 114.6



#40  
 Dibromomethane  
 Concen: 30.958 ug/l  
 RT: 7.64 min Scan# 1107  
 Delta R.T. -0.01 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

Tgt Ion: 93 Resp: 292268  
 Ion Ratio Lower Upper  
 93 100  
 95 82.4 0.0 166.4  
 174 111.6 0.0 225.4





#41

Bromodichloromethane

Concen: 37.070 ug/l

RT: 7.87 min Scan# 1146

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

ClientSampleId :

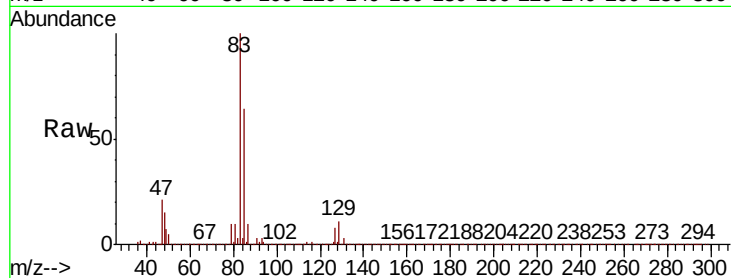
Tot Ion: 83 Resp: 760587

Ion Ratio Lower Upper

83 100

85 64.0 51.6 77.4

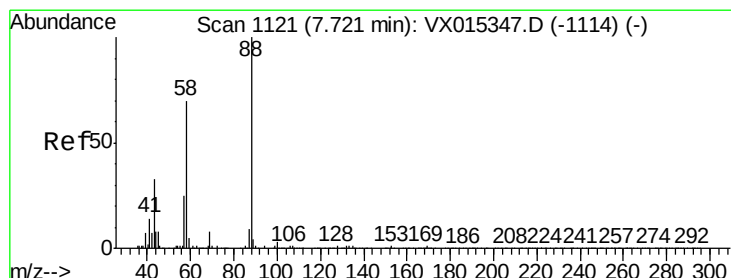
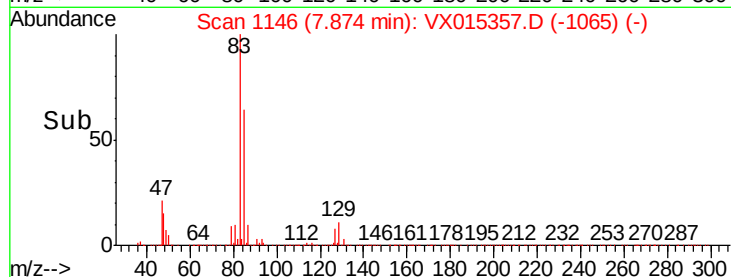
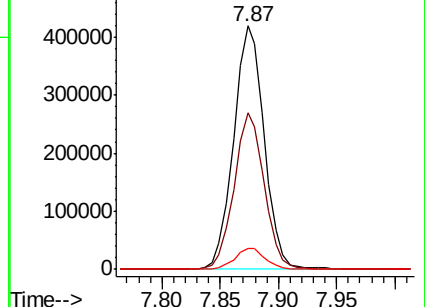
127 8.3 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 2.174 ug/l

RT: 7.62 min Scan# 1105

Delta R.T. -0.10 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

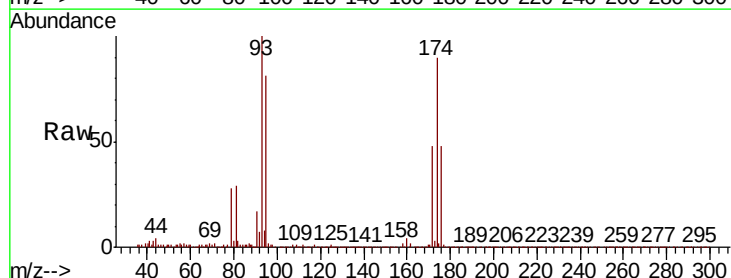
Tgt Ion: 88 Resp: 770

Ion Ratio Lower Upper

88 100

43 43.2 32.1 48.1

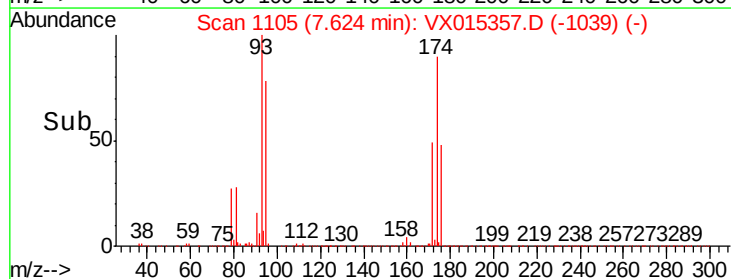
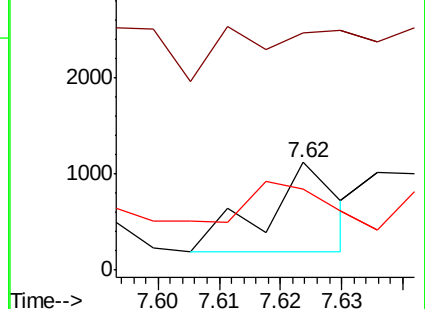
58 61.7 59.4 89.0

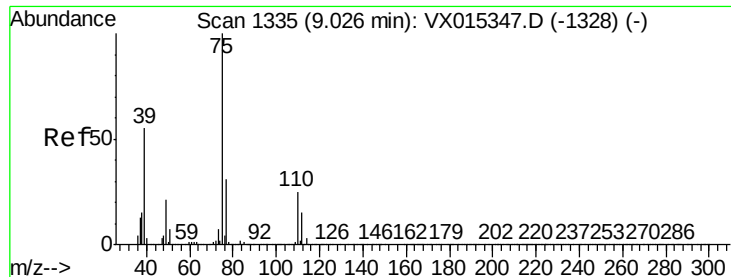


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

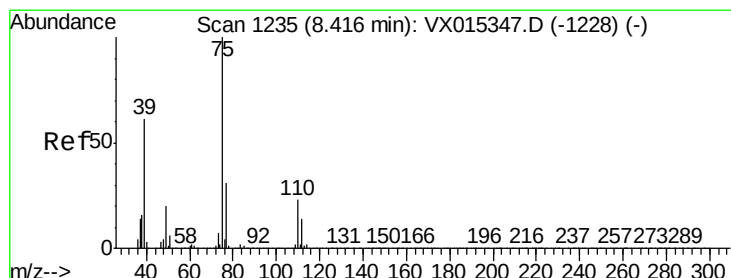
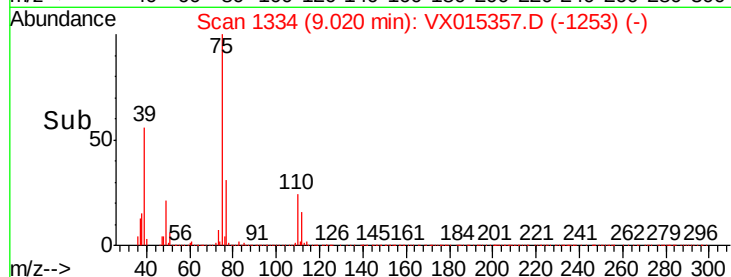
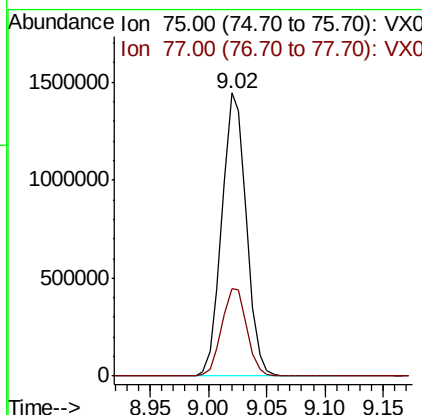
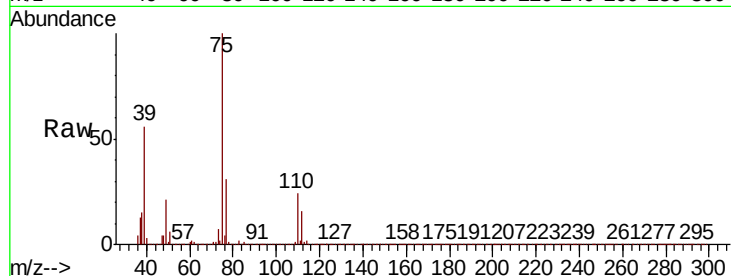




#48  
t-1,3-Dichloropropene  
Concen: 88.188 ug/l  
RT: 9.02 min Scan# 1334  
Delta R.T. -0.01 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

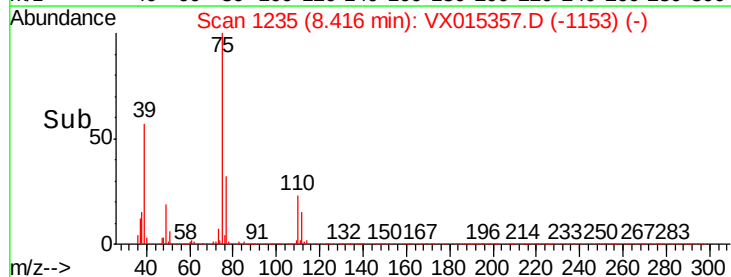
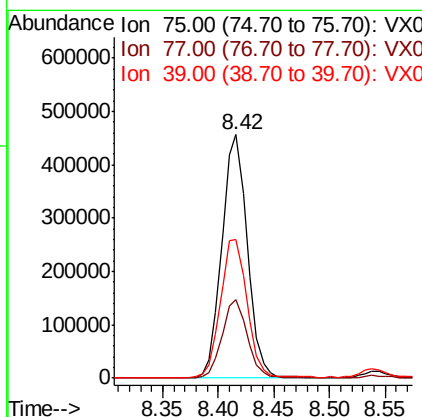
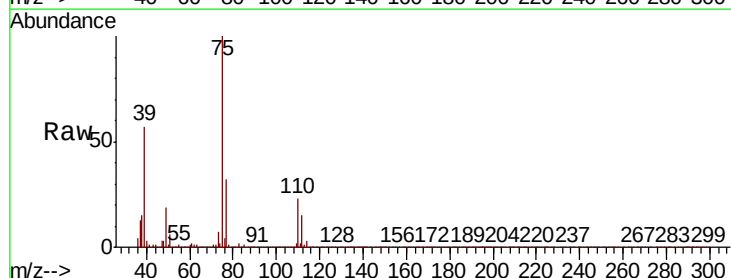
Instrument :  
MSVOA\_X  
ClientSampleId :

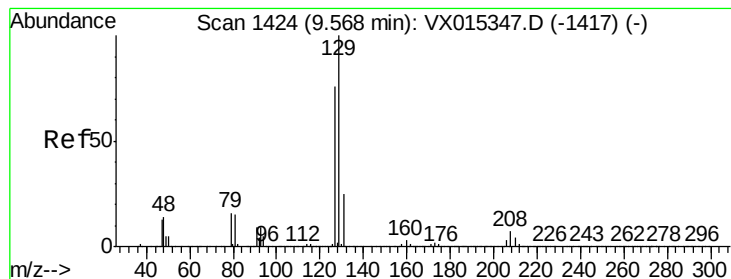
Tot Ion: 75 Resp: 2088835  
Ion Ratio Lower Upper  
75 100  
77 30.9 24.6 37.0



#49  
cis-1,3-Dichloropropene  
Concen: 29.564 ug/l  
RT: 8.42 min Scan# 1235  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion: 75 Resp: 722787  
Ion Ratio Lower Upper  
75 100  
77 32.0 24.6 36.8  
39 56.9 48.9 73.3





#53

Dibromochloromethane

Concen: 71.604 ug/l

RT: 9.56 min Scan# 1423

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

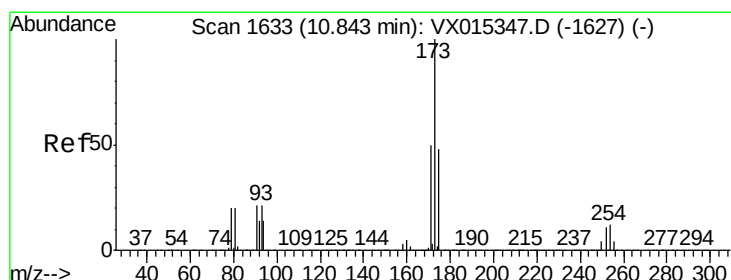
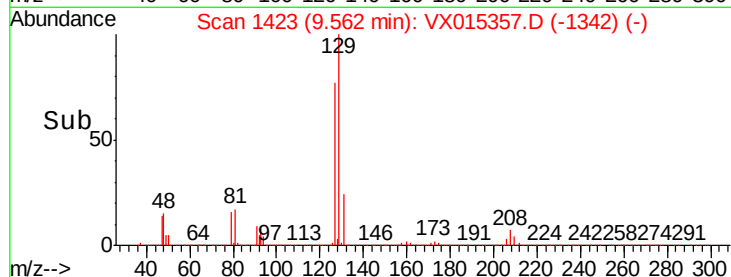
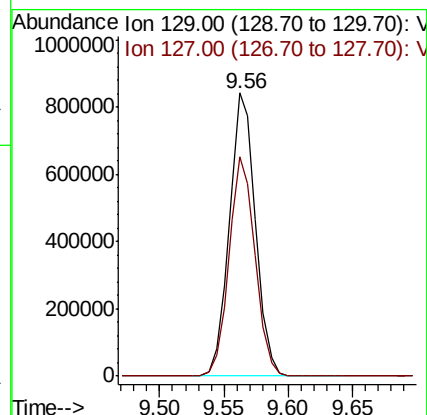
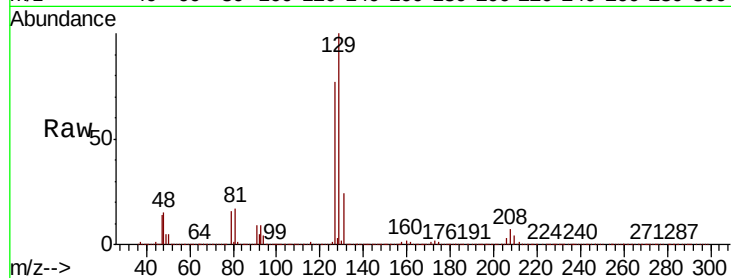
ClientSampleId :

Tot Ion:129 Resp: 1195903

Ion Ratio Lower Upper

129 100

127 77.2 38.6 115.7



#56

Bromoform

Concen: 0.844 ug/l

RT: 10.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

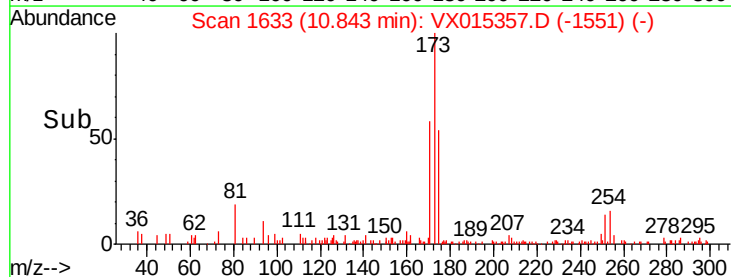
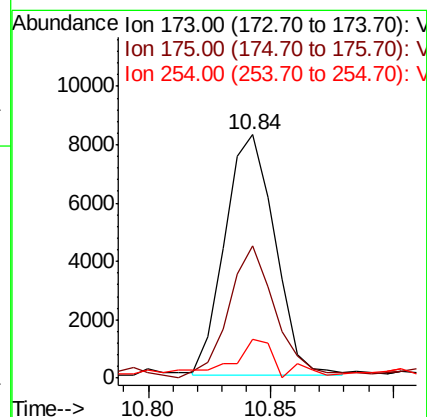
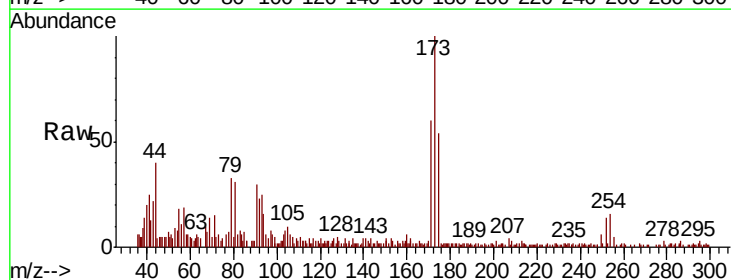
Tgt Ion:173 Resp: 11596

Ion Ratio Lower Upper

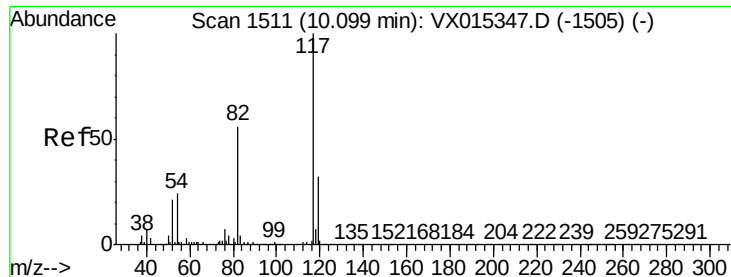
173 100

175 54.1 39.0 58.4

254 11.2 9.4 14.2



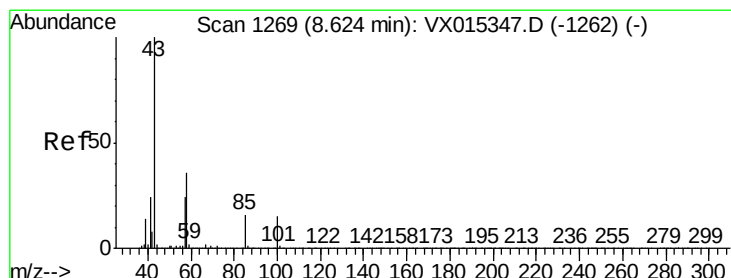
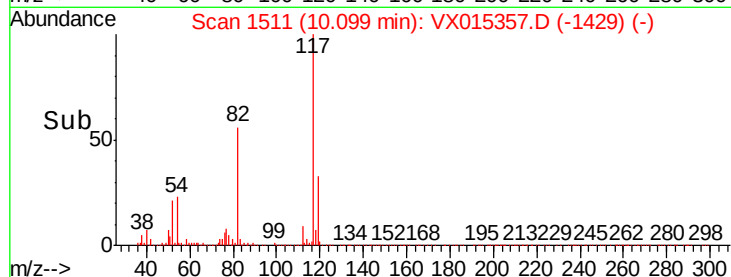
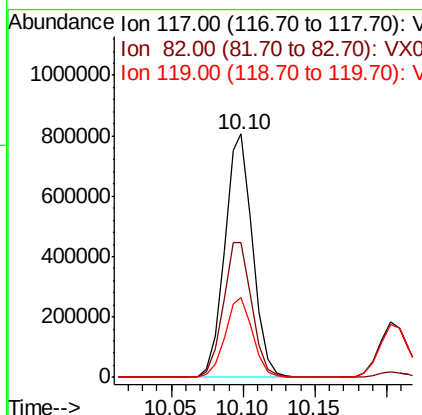
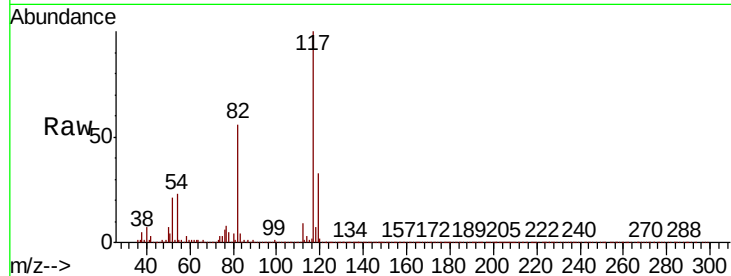




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

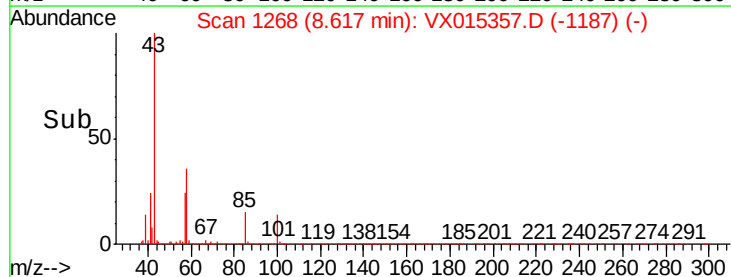
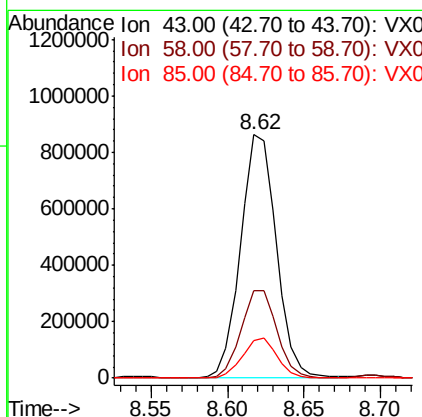
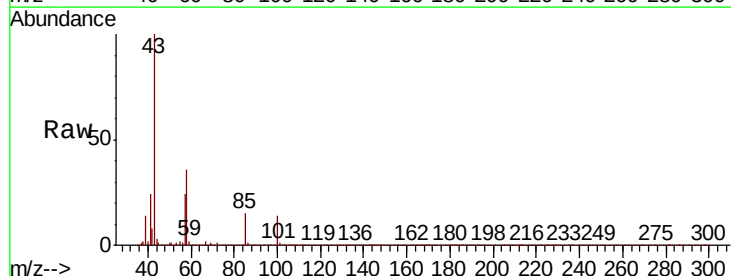
Instrument :  
MSVOA\_X  
ClientSampleId :

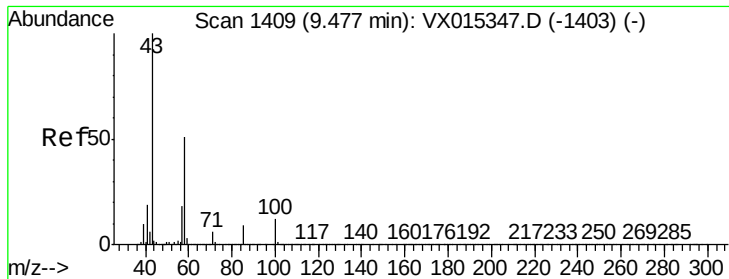
Tot Ion:117 Resp: 1090200  
Ion Ratio Lower Upper  
117 100  
82 57.0 45.0 67.6  
119 32.4 25.5 38.3



#58  
4-Methyl-2-Pentanone  
Concen: 66.861 ug/l  
RT: 8.62 min Scan# 1268  
Delta R.T. -0.01 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion: 43 Resp: 1395050  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.4 44.0  
85 16.0 13.0 19.4

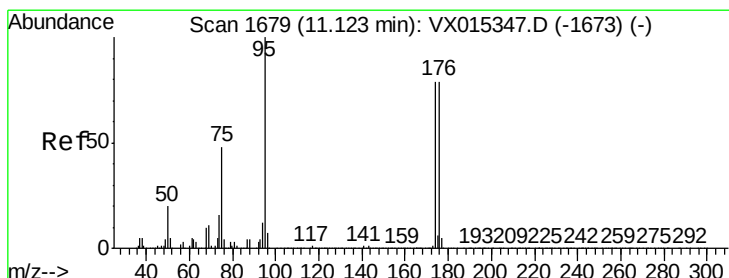
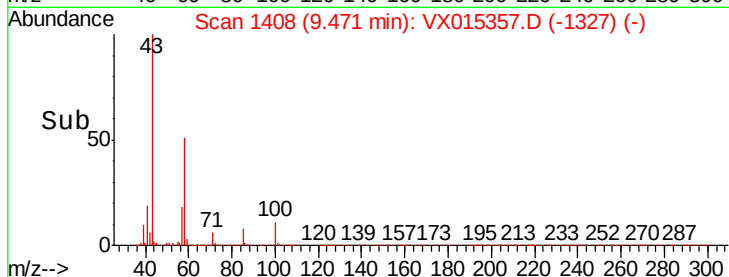
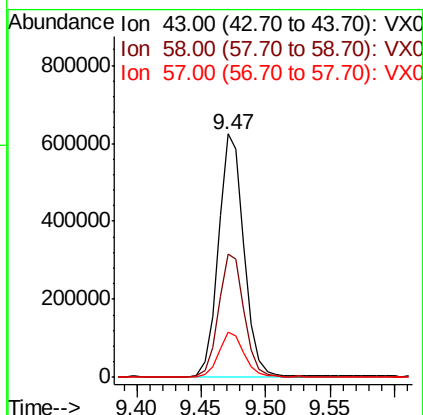
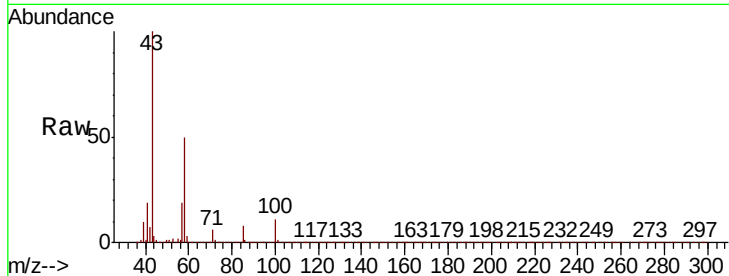




#59  
2-Hexanone  
Concen: 54.377 ug/l  
RT: 9.47 min Scan# 1408  
Delta R.T. -0.01 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

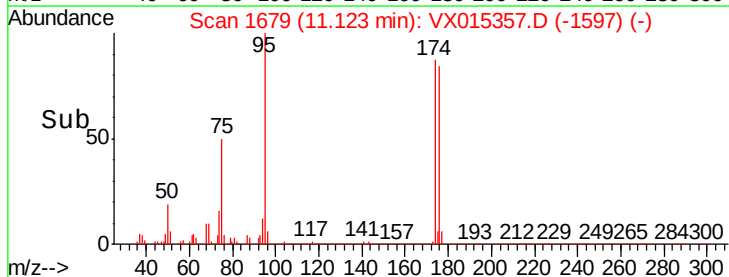
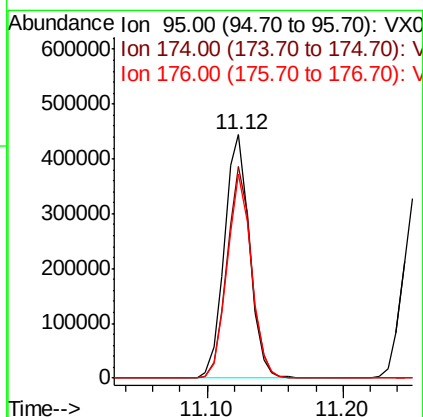
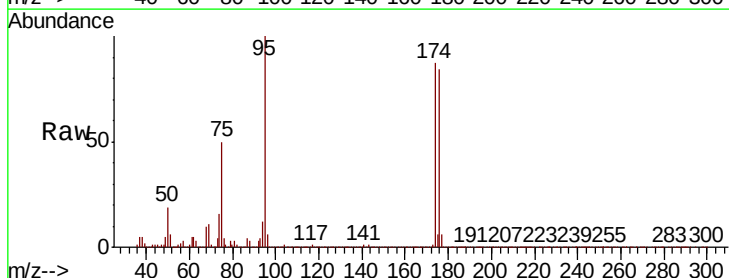
Instrument :  
MSVOA\_X  
ClientSampled :

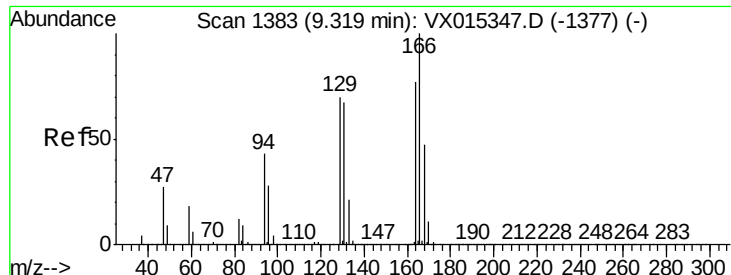
Tot Ion: 43 Resp: 863141  
Ion Ratio Lower Upper  
43 100  
58 51.2 40.2 60.4  
57 18.2 14.6 22.0



#60  
4-Bromofluorobenzene  
Concen: 30.370 ug/l  
RT: 11.12 min Scan# 1679  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion: 95 Resp: 566625  
Ion Ratio Lower Upper  
95 100  
174 84.9 66.4 99.6  
176 81.7 64.1 96.1





#61

Tetrachloroethene

Concen: 0.439 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:164 Resp: 6146

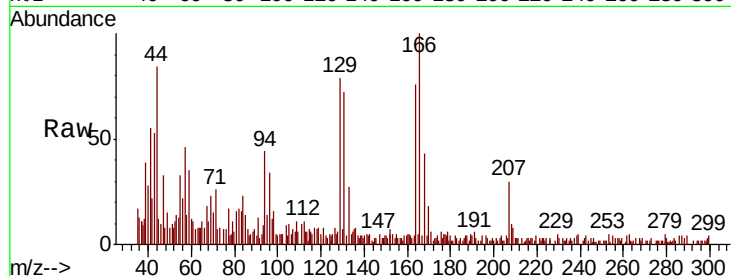
Ion Ratio Lower Upper

164 100

166 129.4 103.6 155.4

129 99.0 72.6 108.8

131 86.8 69.8 104.6

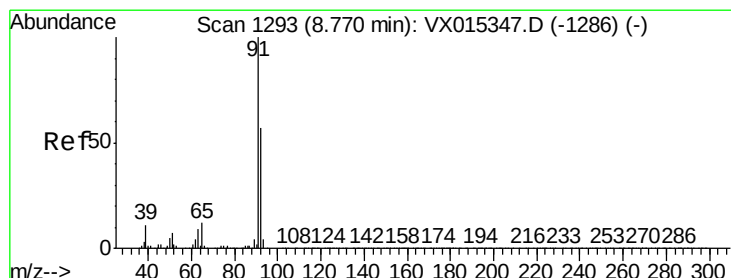
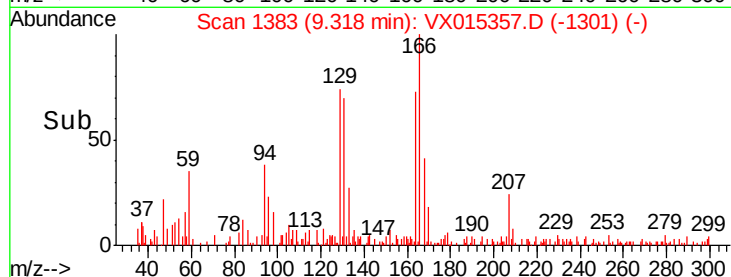
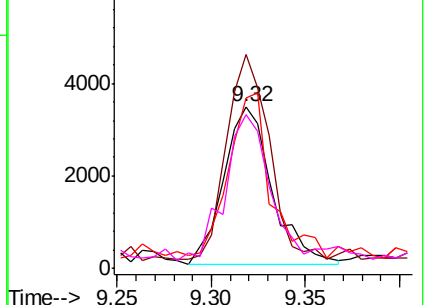


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 21.388 ug/l

RT: 8.76 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VX015357.D

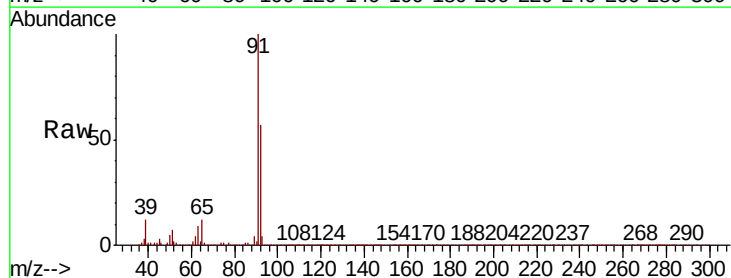
Acq: 26 Mar 2020 14:31

Tgt Ion: 91 Resp: 1181024

Ion Ratio Lower Upper

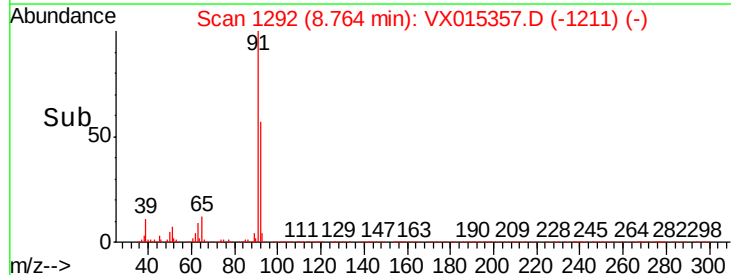
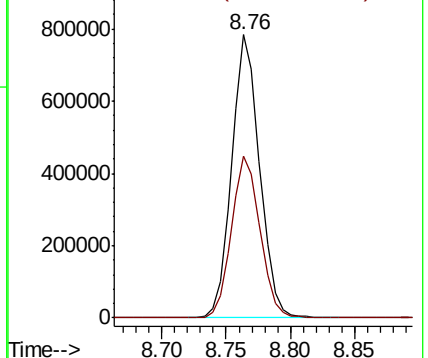
91 100

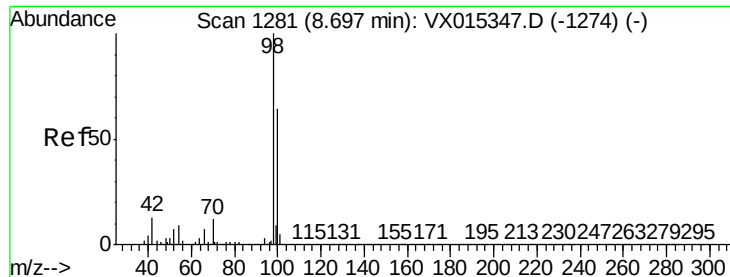
92 58.7 46.7 70.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 31.180 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

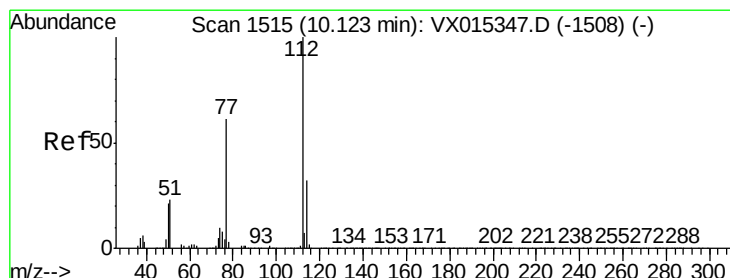
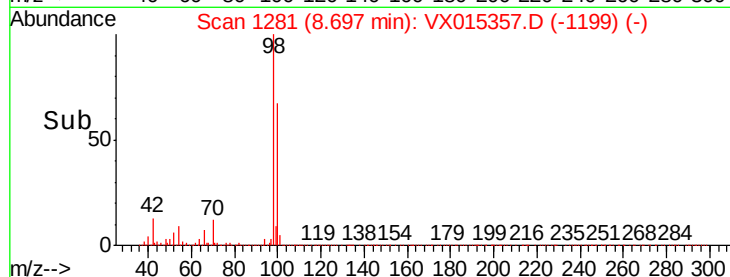
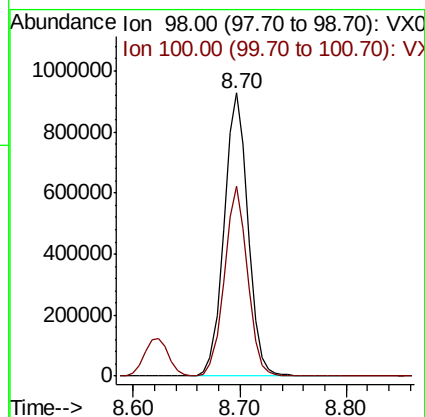
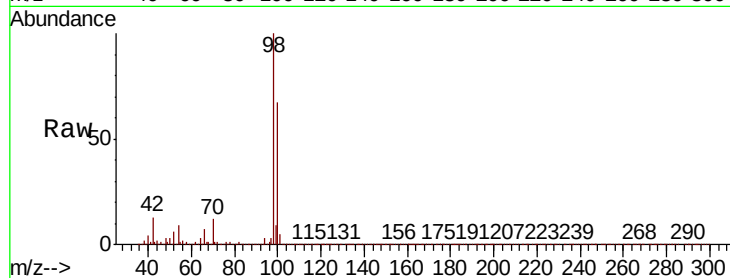
ClientSampleId :

Tot Ion: 98 Resp: 1444193

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2



#64

Chlorobenzene

Concen: 89.754 ug/l

RT: 10.12 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VX015357.D

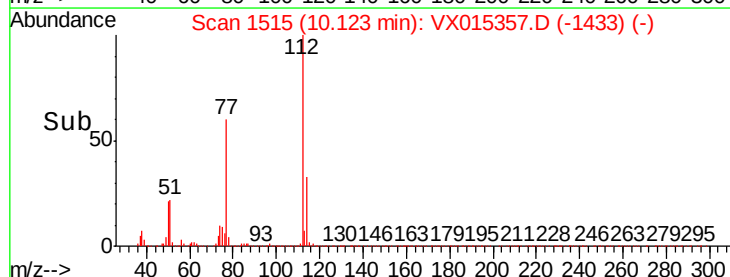
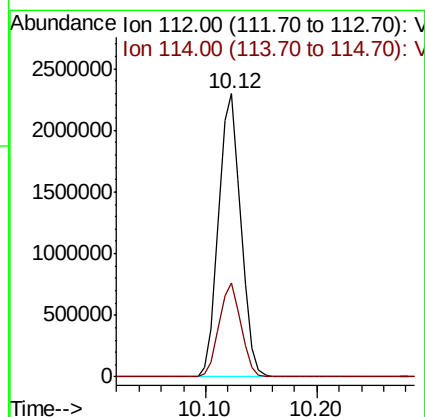
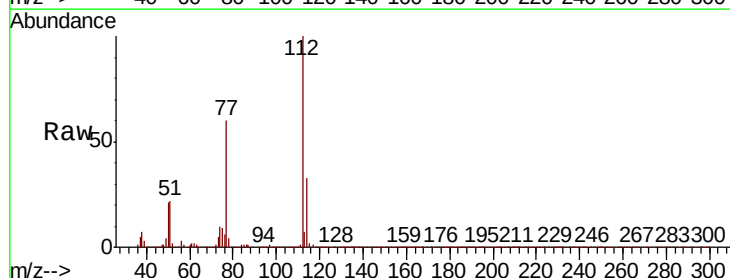
Acq: 26 Mar 2020 14:31

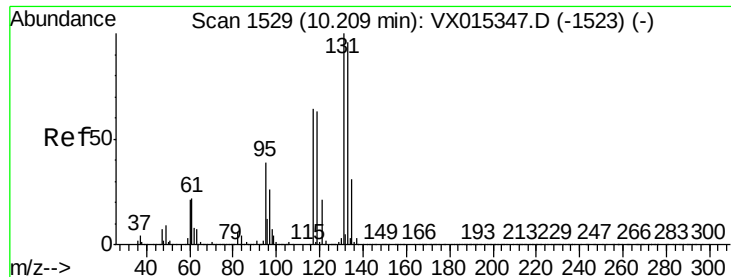
Tgt Ion: 112 Resp: 3186513

Ion Ratio Lower Upper

112 100

114 33.0 25.8 38.8





#65

1,1,1,2-Tetrachloroethane

Concen: 26.703 ug/l

RT: 10.20 min Scan# 1528

Delta R.T. -0.01 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

ClientSampleId :

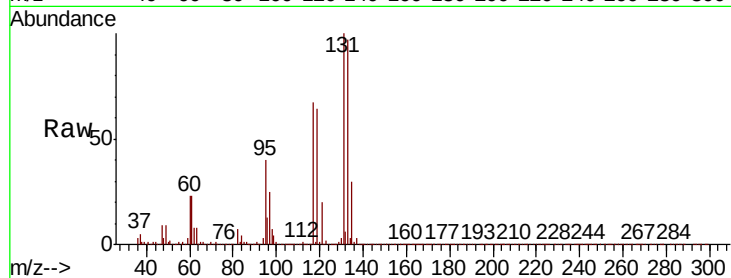
Tot Ion:131 Resp: 387398

Ion Ratio Lower Upper

131 100

133 95.3 0.0 193.6

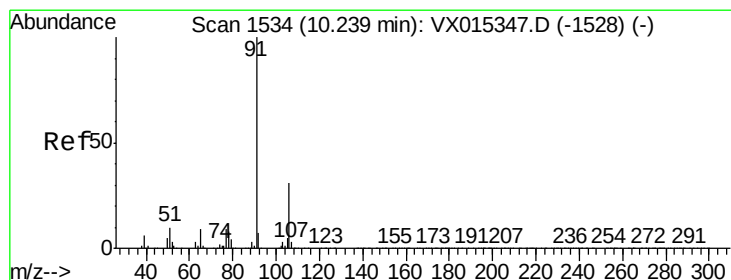
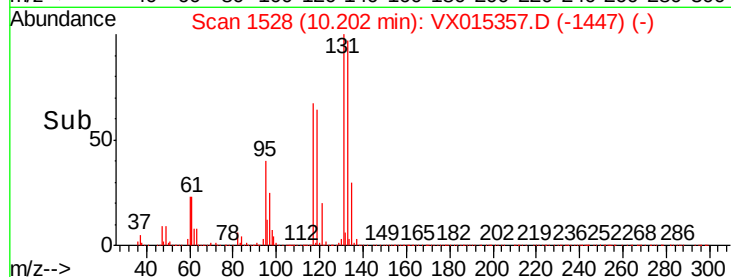
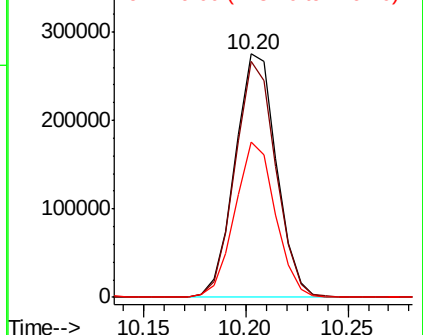
119 62.1 0.0 128.0



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 65.803 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VX015357.D

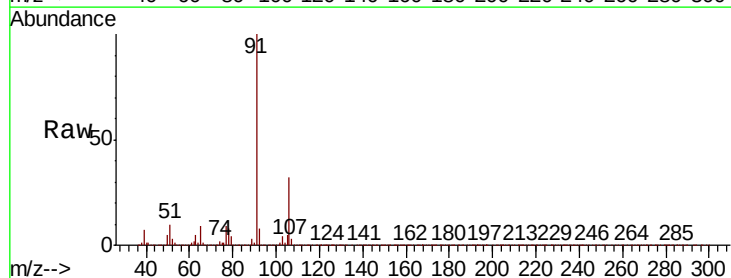
Acq: 26 Mar 2020 14:31

Tgt Ion: 91 Resp: 4151039

Ion Ratio Lower Upper

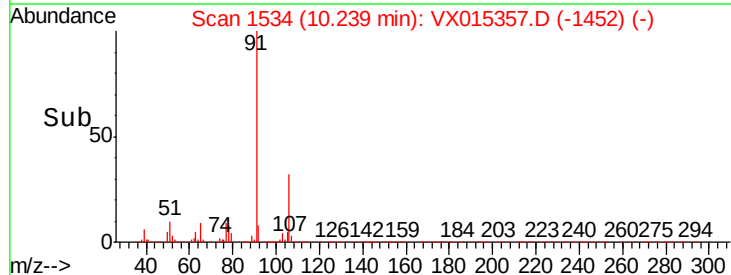
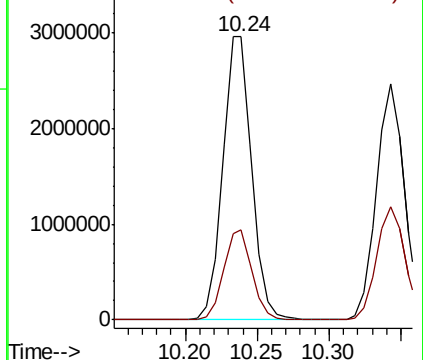
91 100

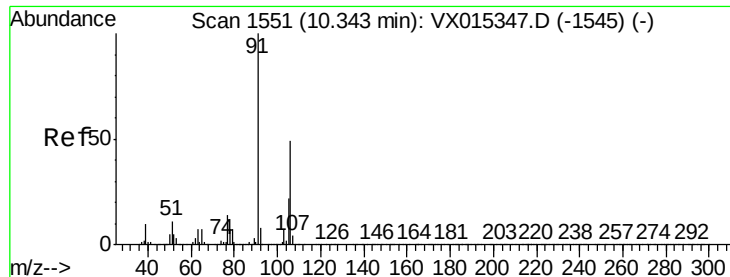
106 31.8 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

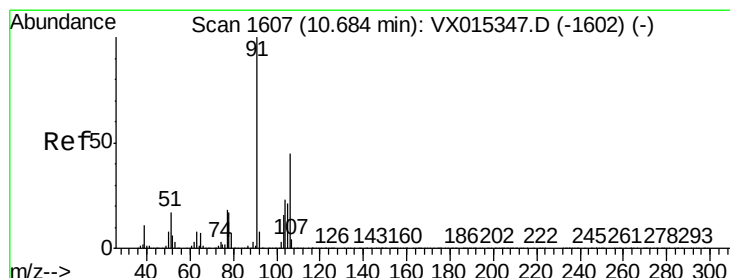
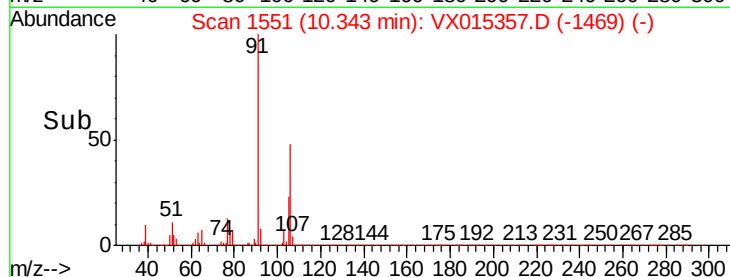
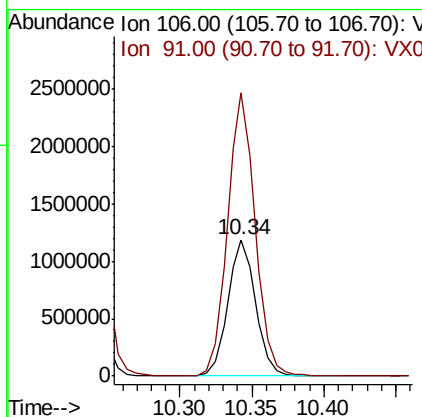
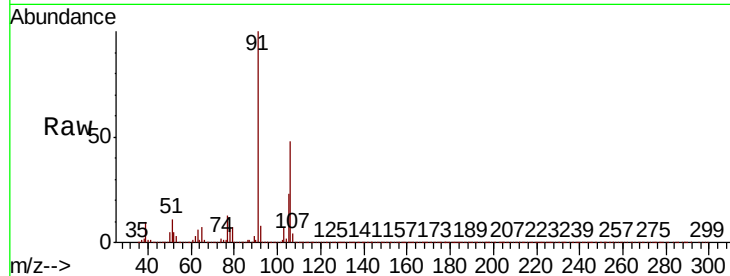




#67  
m/p-Xylenes  
Concen: 67.201 ug/l  
RT: 10.34 min Scan# 1551  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

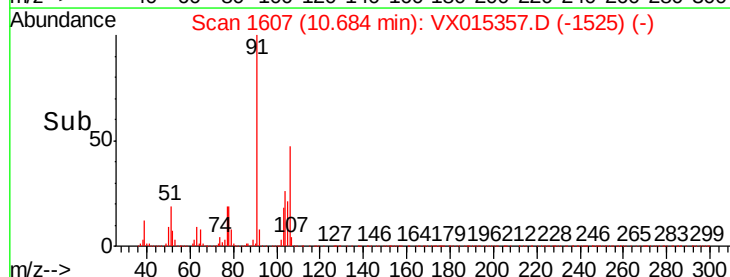
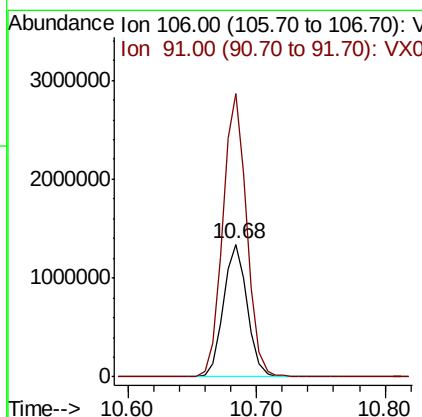
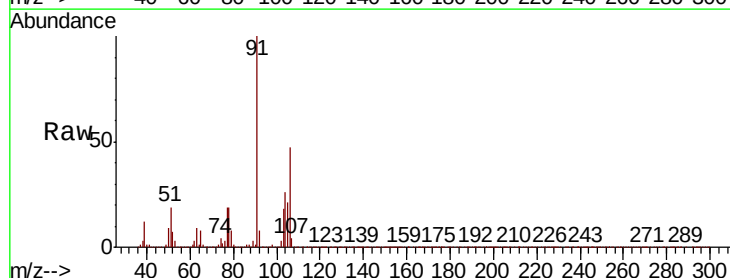
Instrument :  
MSVOA\_X  
ClientSampleId :

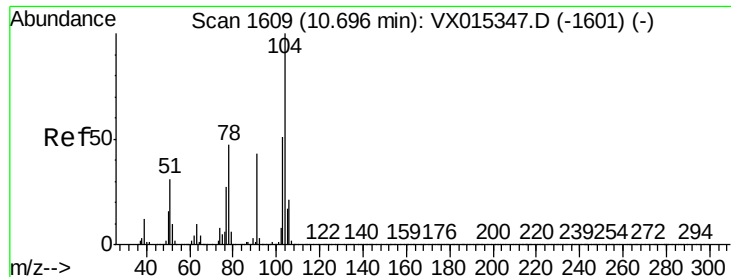
Tot Ion:106 Resp: 1604496  
Ion Ratio Lower Upper  
106 100  
91 206.1 165.0 247.4



#68  
o-Xylene  
Concen: 74.623 ug/l  
RT: 10.68 min Scan# 1607  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion:106 Resp: 1741520  
Ion Ratio Lower Upper  
106 100  
91 214.3 109.1 327.2

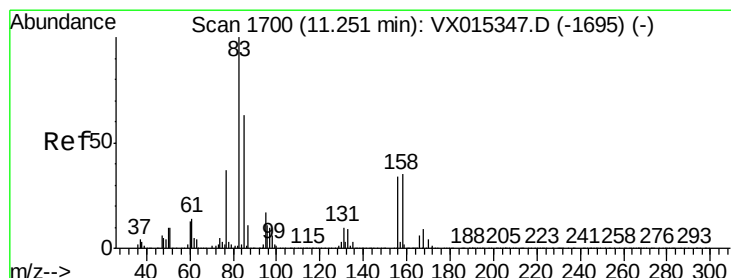
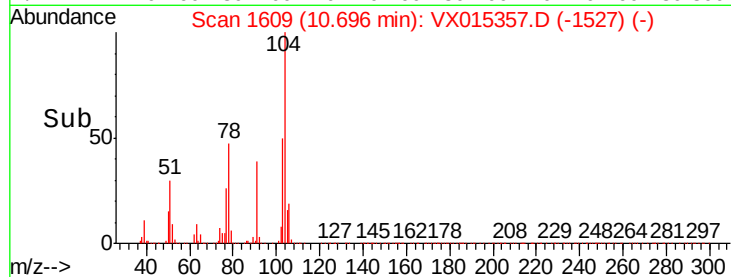
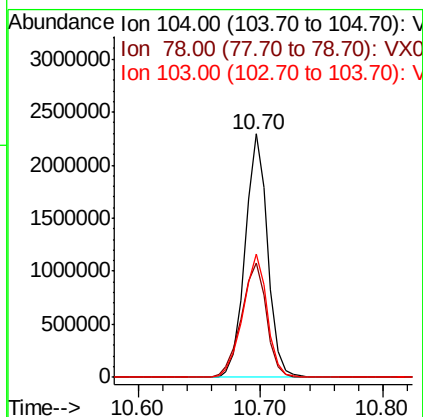
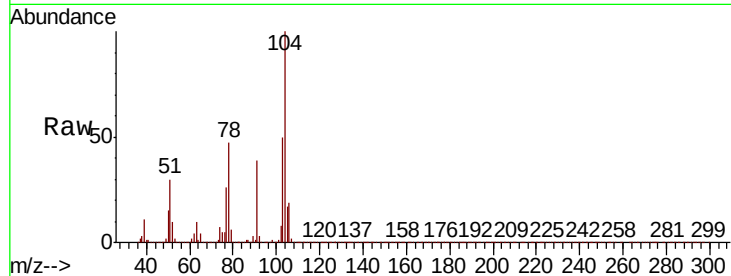




#69  
Stvrene  
Concen: 71.690 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

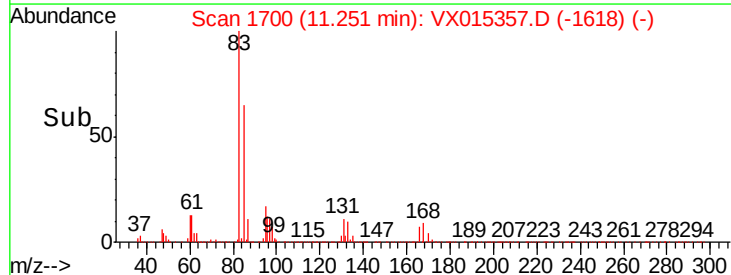
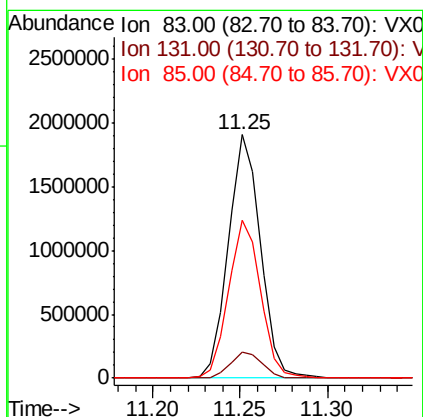
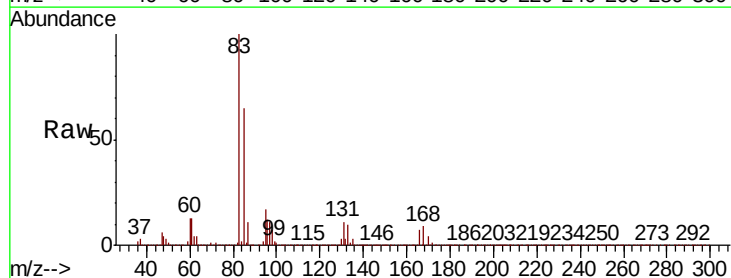
Instrument :  
MSVOA\_X  
ClientSampleId :

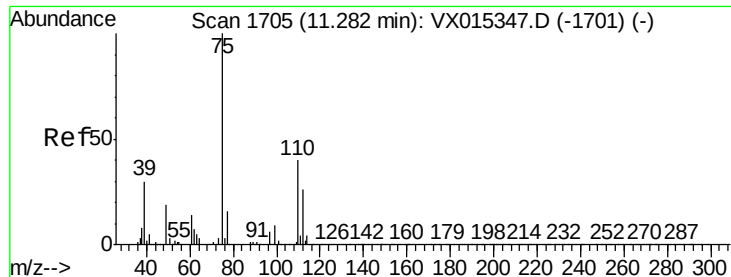
Tot Ion:104 Resp: 2914935  
Ion Ratio Lower Upper  
104 100  
78 52.2 41.5 62.3  
103 54.6 43.4 65.2



#71  
1,1,2,2-Tetrachloroethane  
Concen: 121.425 ug/l  
RT: 11.25 min Scan# 1700  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion: 83 Resp: 2434850  
Ion Ratio Lower Upper  
83 100  
131 10.4 5.3 15.9  
85 64.8 32.0 96.2





#72

1,2,3-Trichloropropane

Concen: 63.905 ug/l

RT: 11.28 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

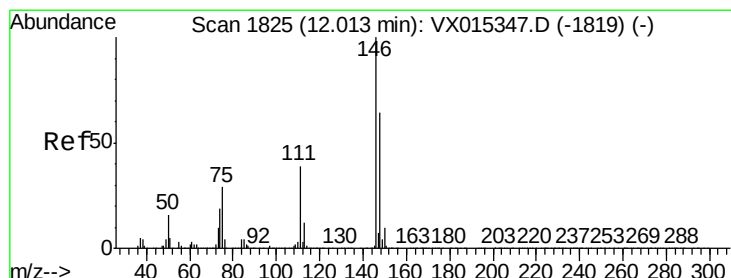
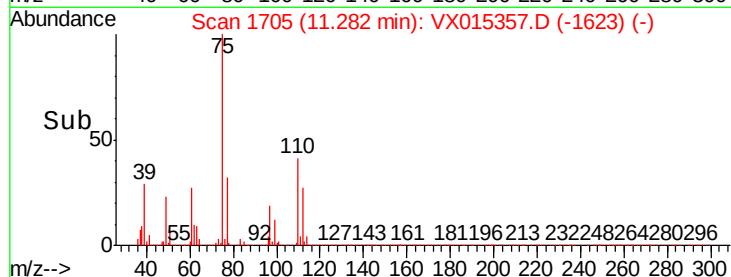
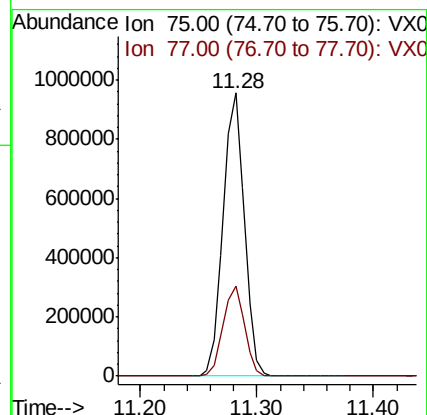
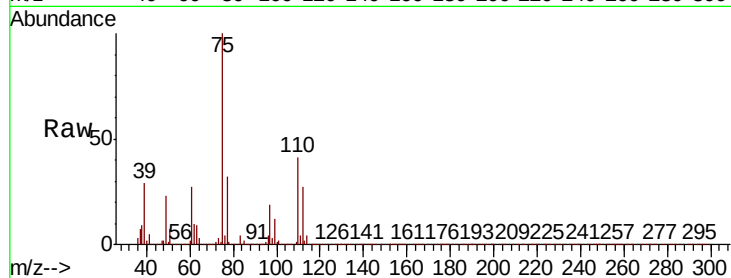
ClientSampleId :

Tot Ion: 75 Resp: 1199032

Ion Ratio Lower Upper

75 100

77 32.1 0.0 80.0



#83

1,3-Dichlorobenzene

Concen: 70.869 ug/l

RT: 12.01 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

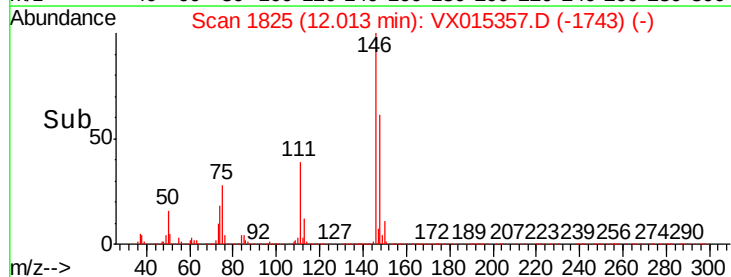
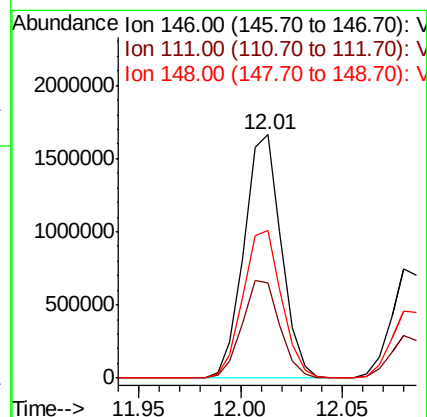
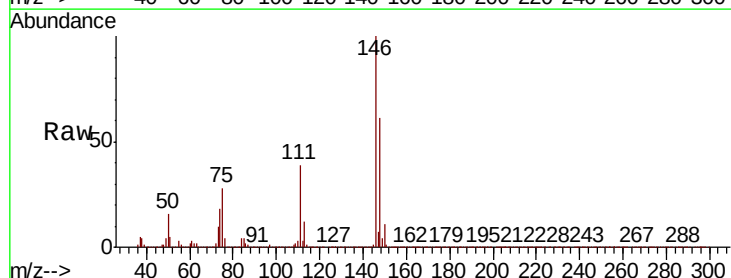
Tgt Ion: 146 Resp: 2116359

Ion Ratio Lower Upper

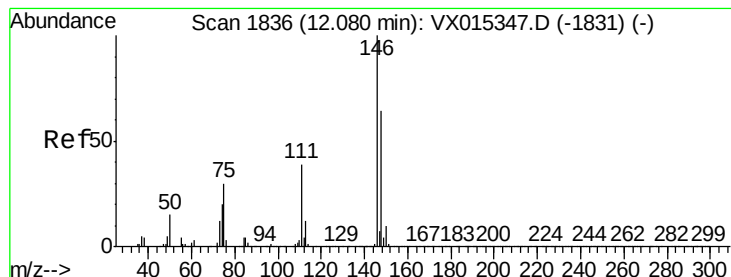
146 100

111 40.5 20.1 60.2

148 62.6 31.4 94.2







#84

1,4-Dichlorobenzene

Concen: 31.307 ug/l

RT: 12.08 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VX015357.D

Acq: 26 Mar 2020 14:31

Instrument :

MSVOA\_X

ClientSampled :

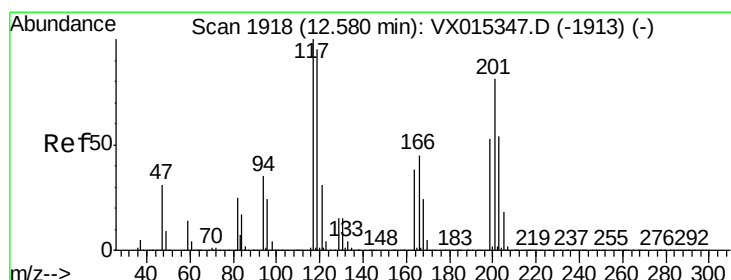
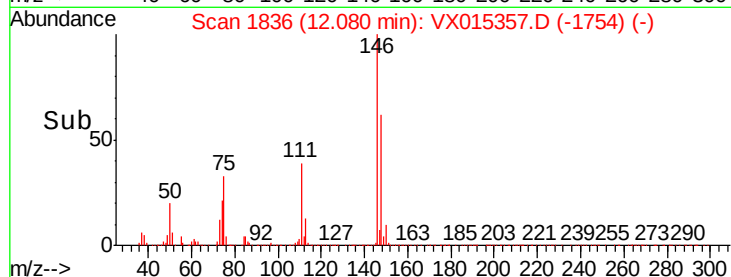
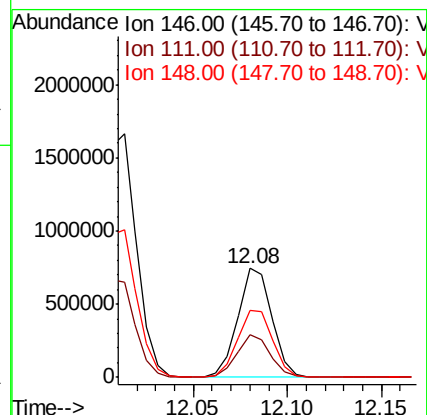
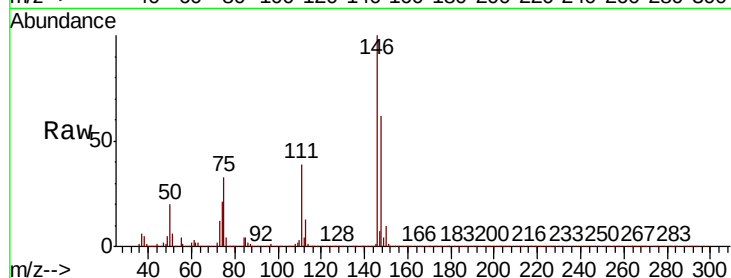
Tot Ion:146 Resp: 933012

Ion Ratio Lower Upper

146 100

111 37.8 18.9 56.9

148 63.6 31.4 94.3



#86

Hexachloroethane

Concen: 0.683 ug/l

RT: 12.58 min Scan# 1918

Delta R.T. -0.00 min

Lab File: VX015357.D

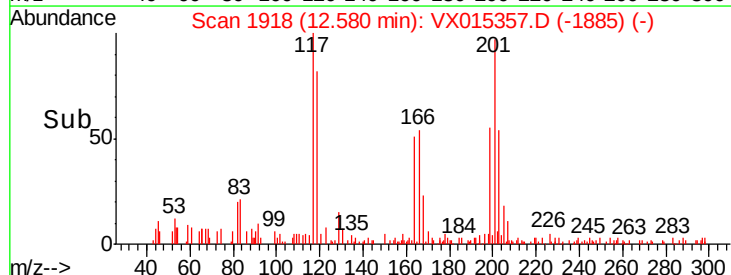
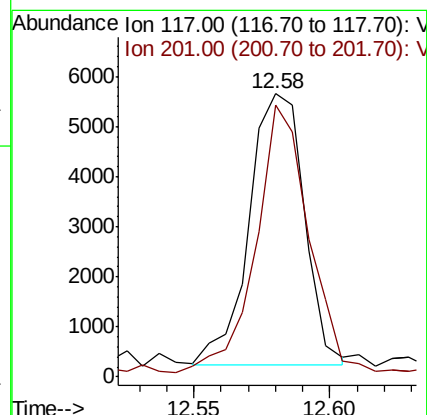
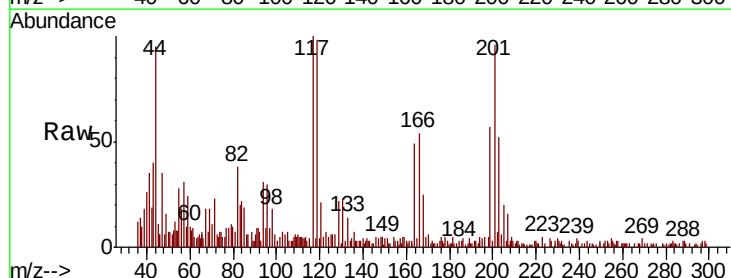
Acq: 26 Mar 2020 14:31

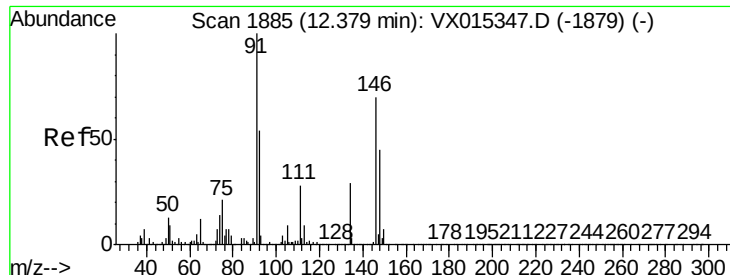
Tgt Ion:117 Resp: 7583

Ion Ratio Lower Upper

117 100

201 95.0 44.9 134.5

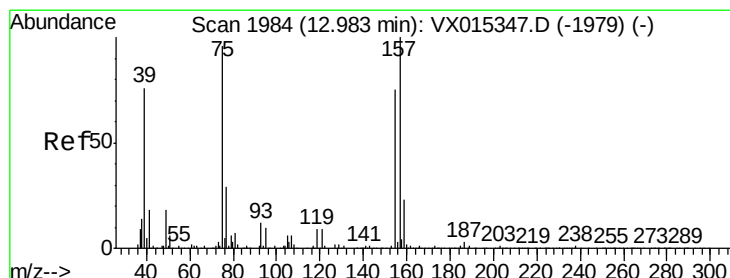
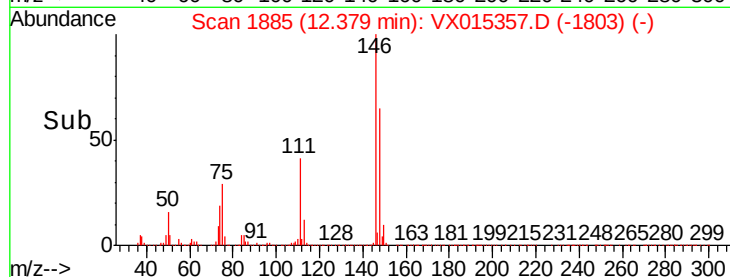
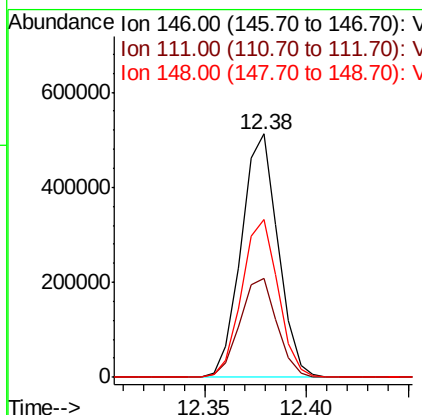
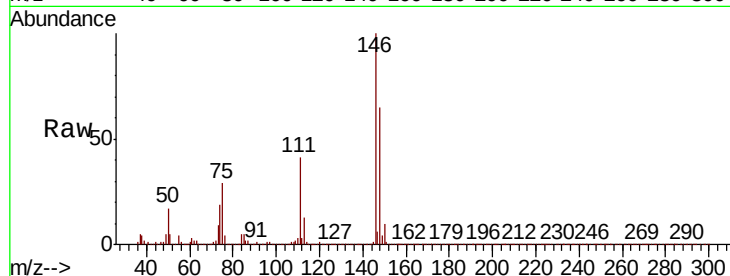




#87  
 1,2-Dichlorobenzene  
 Concen: 21.994 ug/l  
 RT: 12.38 min Scan# 1885  
 Delta R.T. -0.00 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

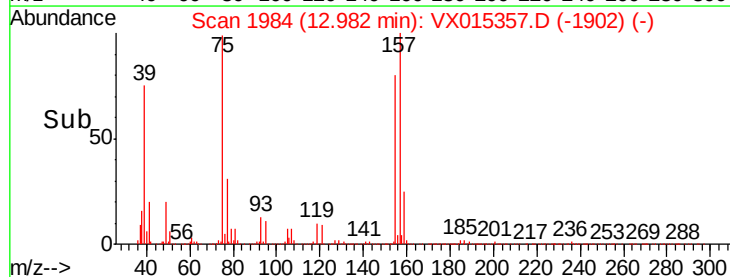
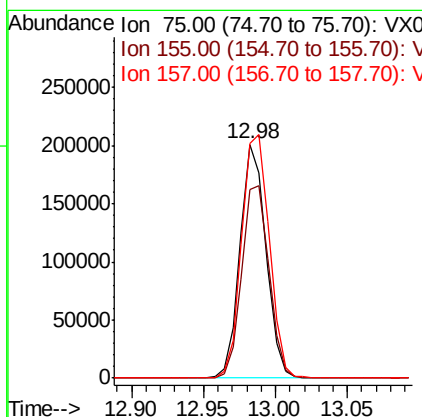
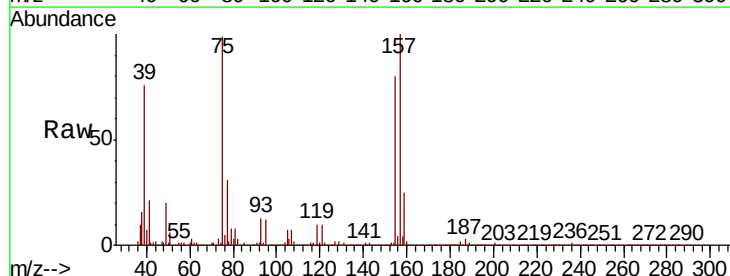
Instrument :  
 MSVOA\_X  
 ClientSampleId :

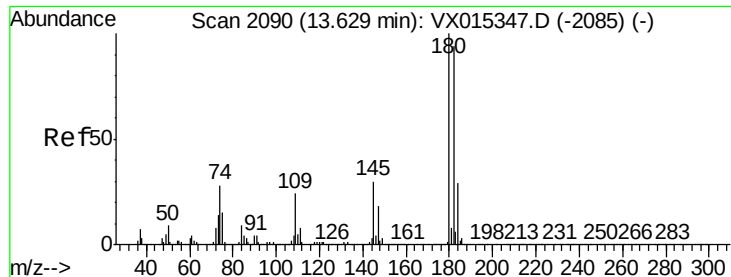
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.8  | 20.4  | 61.2  |
| 148     | 64.1  | 31.9  | 95.9  |



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 47.553 ug/l  
 RT: 12.98 min Scan# 1984  
 Delta R.T. -0.00 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 86.0  | 67.7  | 101.5 |
| 157     | 111.0 | 88.5  | 132.7 |

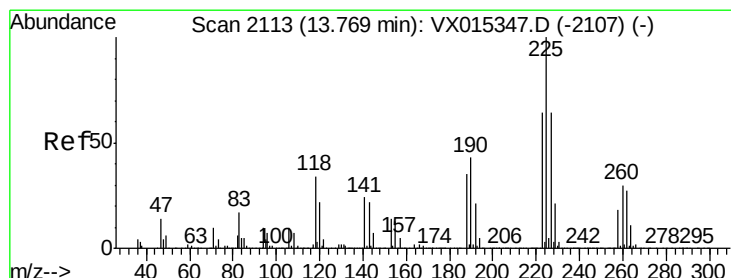
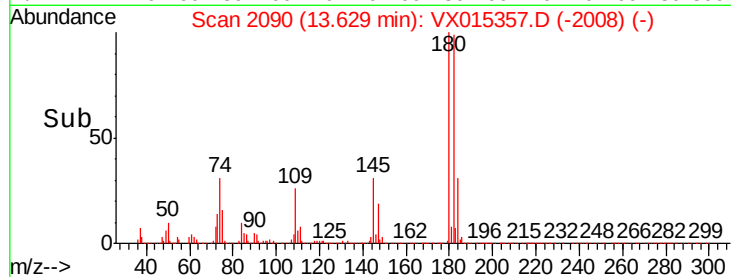
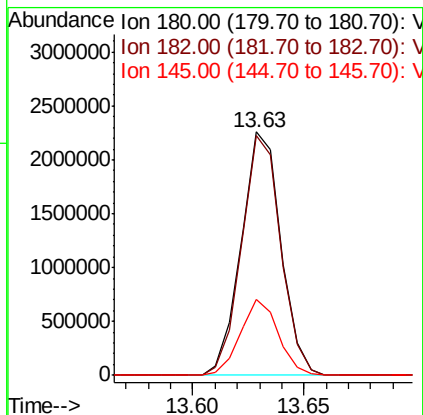
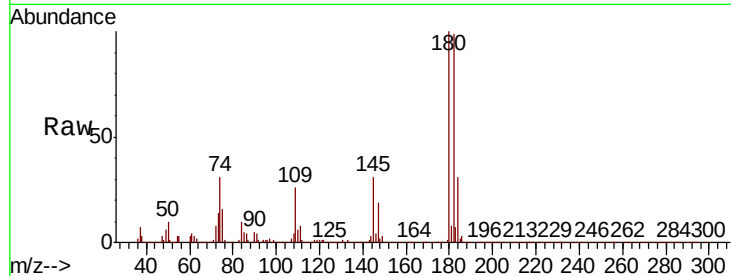




#89  
 1,2,4-Trichlorobenzene  
 Concen: 119.758 ug/l  
 RT: 13.63 min Scan# 2090  
 Delta R.T. -0.00 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

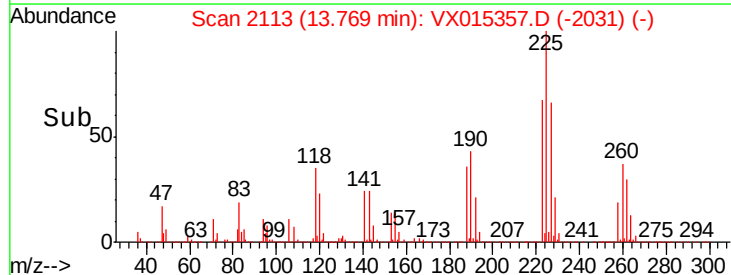
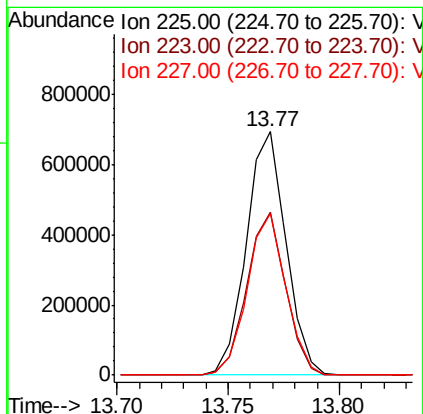
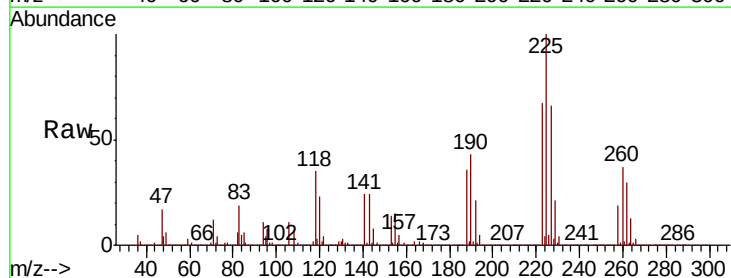
Instrument :  
 MSVOA\_X  
 ClientSampleId :

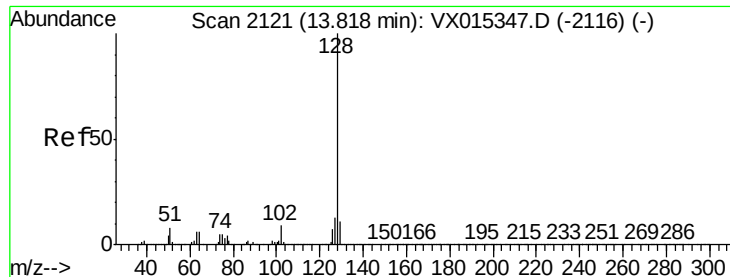
Tot Ion:180 Resp: 2810682  
 Ion Ratio Lower Upper  
 180 100  
 182 97.3 76.9 115.3  
 145 30.0 24.3 36.5



#90  
 Hexachlorobutadiene  
 Concen: 69.603 ug/l  
 RT: 13.77 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VX015357.D  
 Acq: 26 Mar 2020 14:31

Tgt Ion:225 Resp: 860543  
 Ion Ratio Lower Upper  
 225 100  
 223 65.3 0.0 127.0  
 227 64.8 0.0 126.8

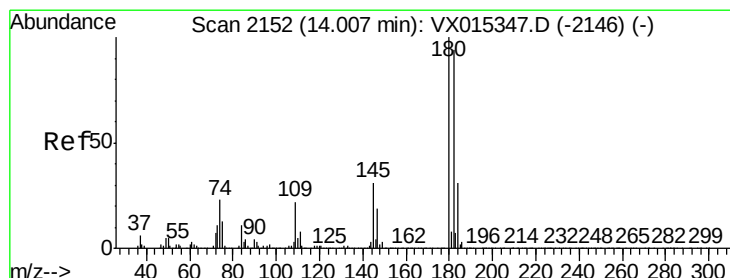
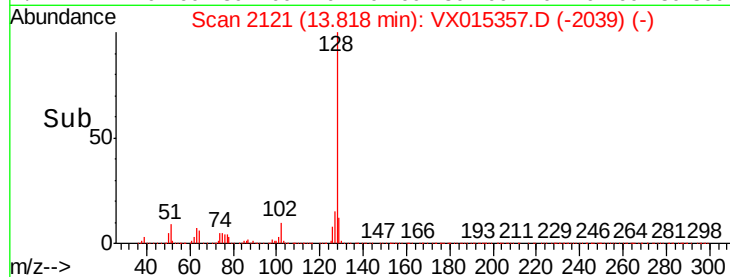
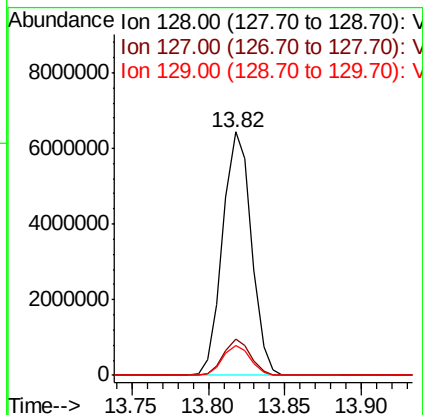
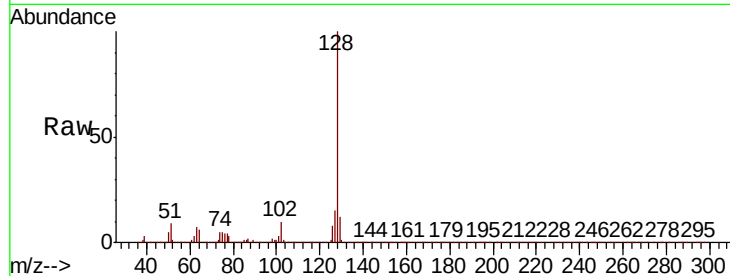




#91  
Naphthalene  
Concen: 123.470 ug/l  
RT: 13.82 min Scan# 2121  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:128 Resp: 8391190  
Ion Ratio Lower Upper  
128 100  
127 14.0 10.3 15.5  
129 11.8 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 0.580 ug/l  
RT: 14.01 min Scan# 2152  
Delta R.T. -0.00 min  
Lab File: VX015357.D  
Acq: 26 Mar 2020 14:31

Tgt Ion:180 Resp: 13531  
Ion Ratio Lower Upper  
180 100  
182 94.2 0.0 191.0  
145 32.4 0.0 62.2

