

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020620\  
 Data File : VX014850.D  
 Acq On : 06 Feb 2020 16:10  
 Operator : JC/SP  
 Sample : L1430-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 07 00:49:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 22 12:35:15 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 455631   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 698463   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 646479   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 315951   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 252867   | 47.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.06% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 207890   | 47.17 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.34% |          |
| 50) Toluene-d8              | 8.71  | 98   | 823489   | 48.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 295108   | 48.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.78% |          |

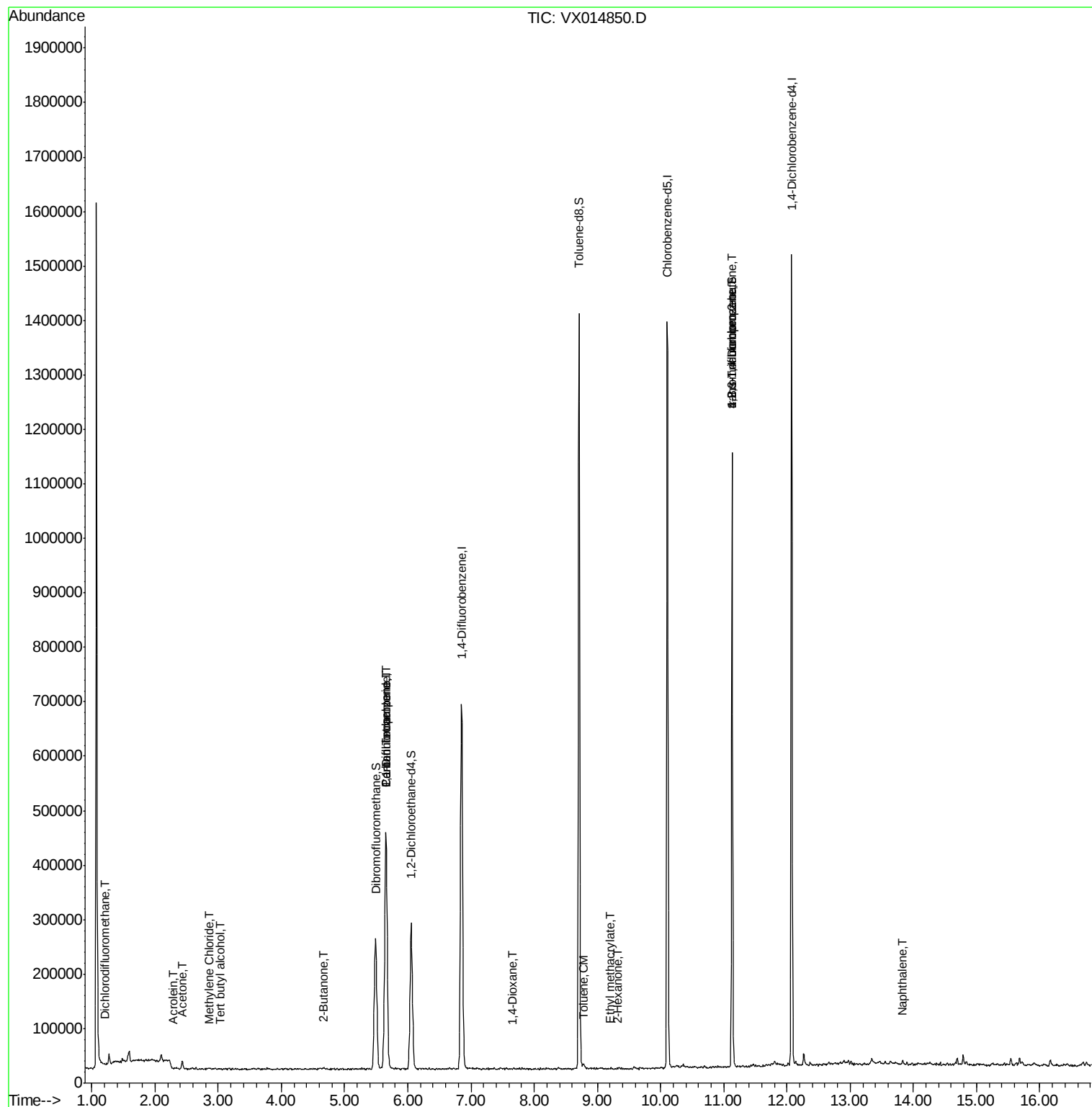
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 287      | 0.578     | ug/l # | 42     |
| 6) Chloroethane                | 1.68  | 64   | 310      | Below Cal | #      | 84     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1627     | 1.362     | ug/l # | 38     |
| 13) Acrolein                   | 2.29  | 56   | 230      | 0.244     | ug/l # | 14     |
| 16) Acetone                    | 2.43  | 43   | 17134    | 6.022     | ug/l   | 97     |
| 20) Methylene Chloride         | 2.86  | 84   | 1874     | 0.347     | ug/l # | 69     |
| 25) 2-Butanone                 | 4.67  | 43   | 5007     | 1.198     | ug/l # | 76     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 29971    | 4.618     | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 38981    | 6.289     | ug/l # | 15     |
| 41) Methacrylonitrile          | 5.03  | 41   | 340      | Below Cal | #      | 1      |
| 49) 1,4-Dioxane                | 7.65  | 88   | 436      | 3.537     | ug/l   | 99     |
| 52) Toluene                    | 8.78  | 92   | 3826     | 0.310     | ug/l   | 98     |
| 56) Ethyl methacrylate         | 9.19  | 69   | 277      | 1.816     | ug/l # | 1      |
| 59) 2-Hexanone                 | 9.31  | 43   | 1209     | 0.203     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 145300   | 19.767    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 145300   | 56.252    | ug/l # | 11     |
| 95) Naphthalene                | 13.83 | 128  | 4752     | 1.142     | ug/l # | 79     |

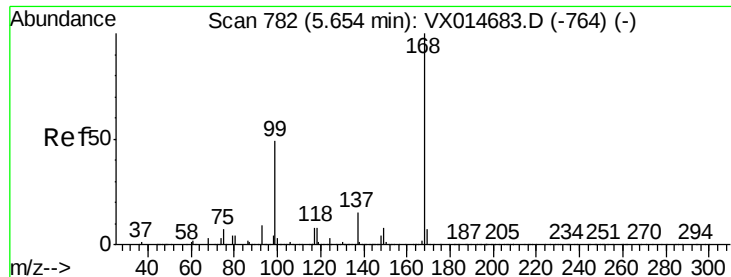
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020620\  
Data File : VX014850.D  
Acq On : 06 Feb 2020 16:10  
Operator : JC/SP  
Sample : L1430-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Feb 07 00:49:39 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X012220W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 22 12:35:15 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

Instrument :

MSVOA\_X

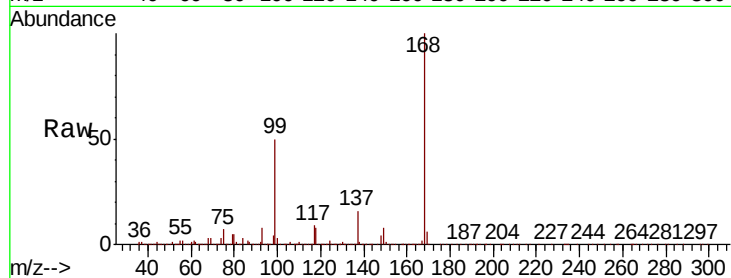
ClientSampleId :

Tot Ion:168 Resp: 455631

Ion Ratio Lower Upper

168 100

99 49.8 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

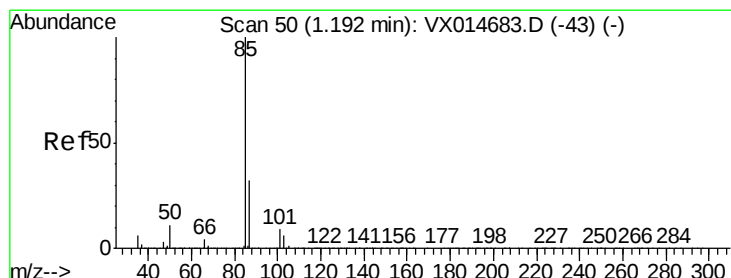
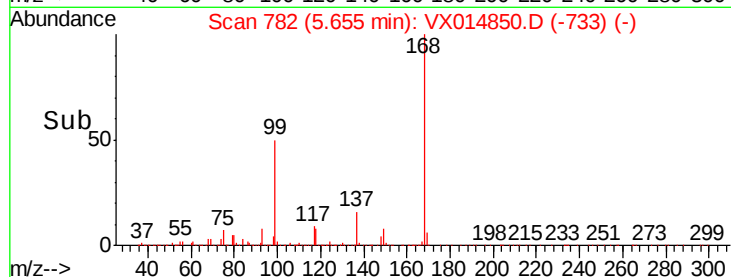
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.578 ug/l

RT: 1.20 min Scan# 52

Delta R.T. 0.01 min

Lab File: VX014850.D

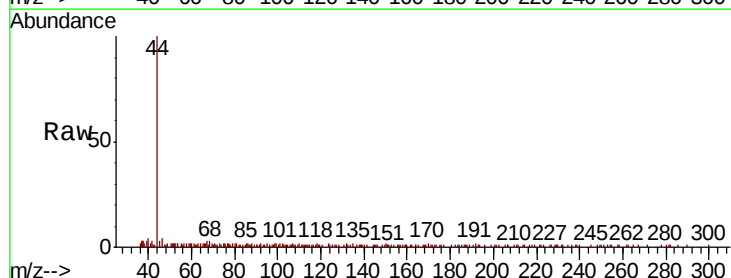
Acq: 06 Feb 2020 16:10

Tgt Ion: 85 Resp: 287

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

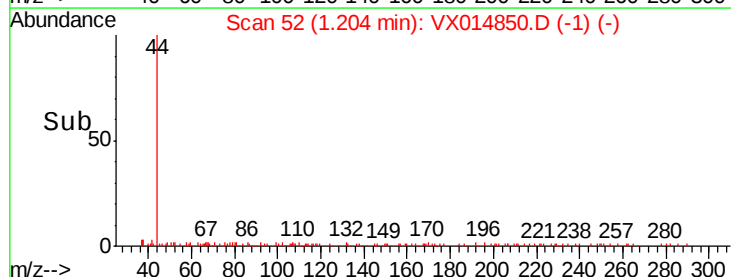
200

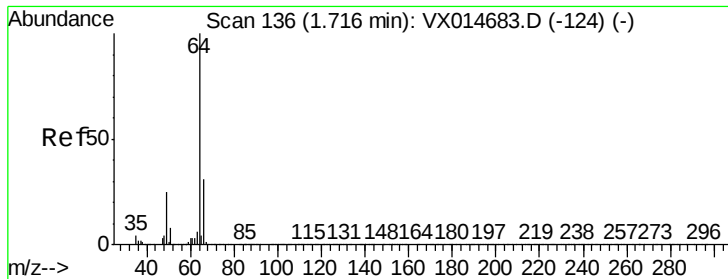
100

0

Time-->

1.18 1.20 1.22





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 130

Delta R.T. -0.04 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

Instrument :

MSVOA\_X

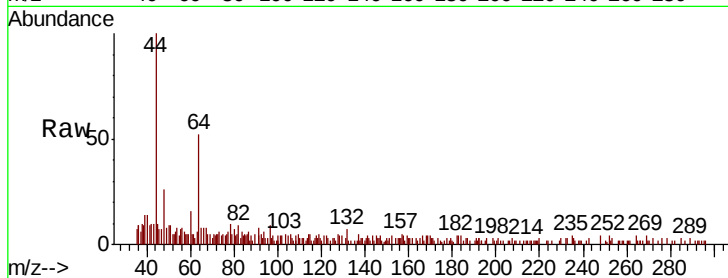
ClientSampleId :

Tot Ion: 64 Resp: 310

Ion Ratio Lower Upper

64 100

66 22.5 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

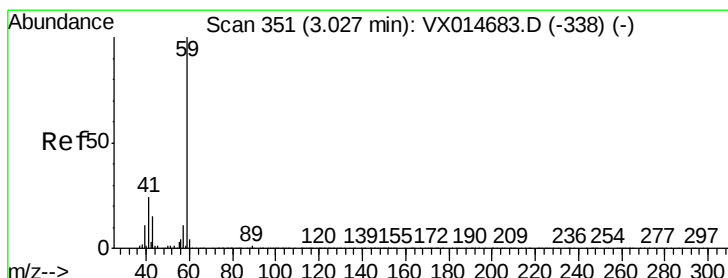
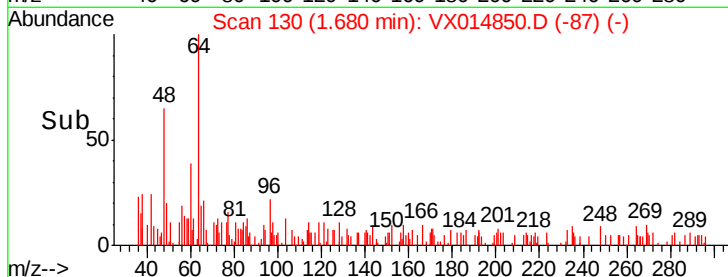
1500

1000

500

0

Time--> 1.66 1.67 1.68 1.69



#11

Tert butyl alcohol

Concen: 1.362 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.00 min

Lab File: VX014850.D

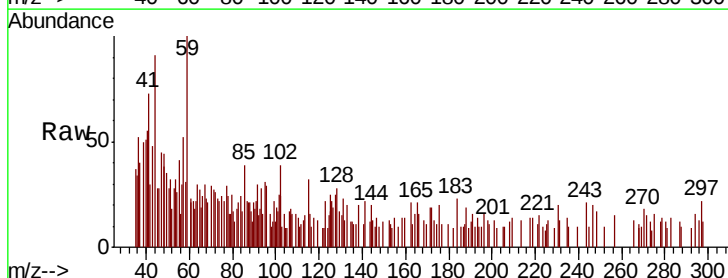
Acq: 06 Feb 2020 16:10

Tgt Ion: 59 Resp: 1627

Ion Ratio Lower Upper

59 100

57 33.7 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

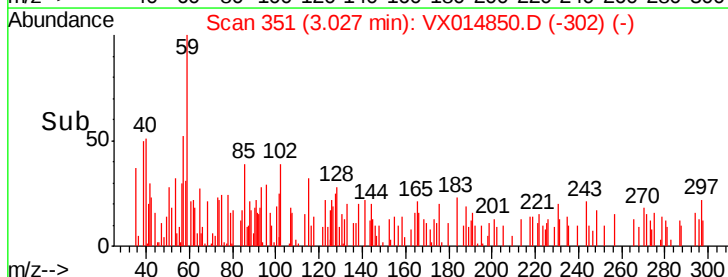
600

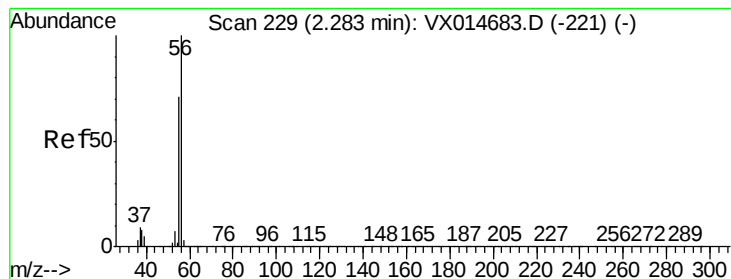
400

200

0

Time--> 2.95 3.00 3.05





#13

Acrolein

Concen: 0.244 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

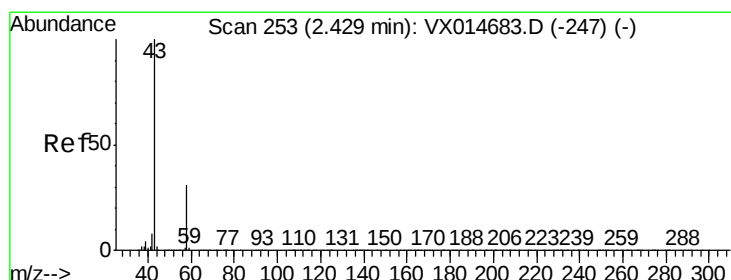
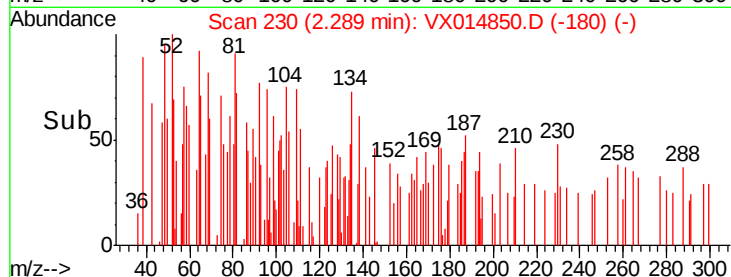
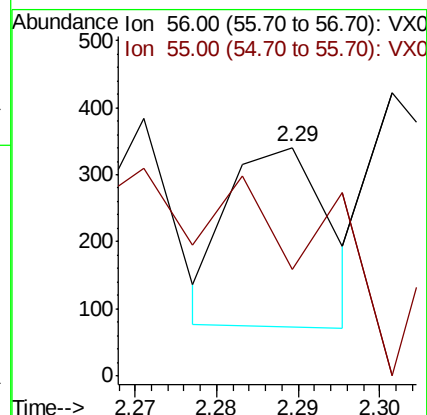
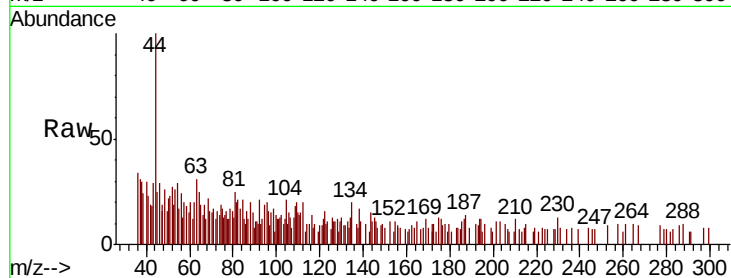
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



#16

Acetone

Concen: 6.022 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014850.D

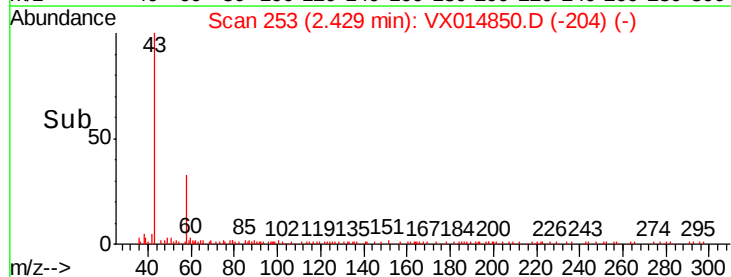
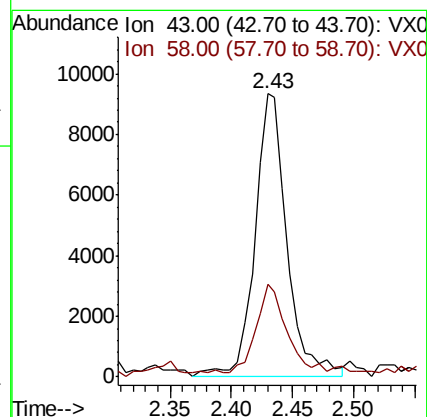
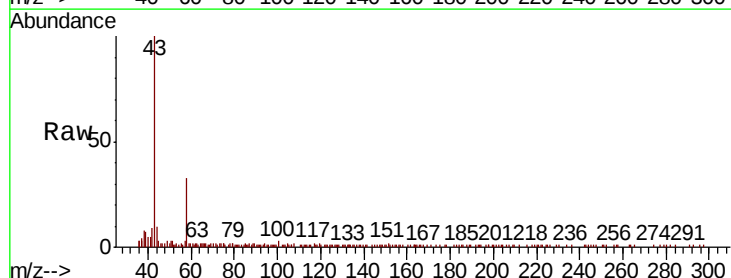
Acq: 06 Feb 2020 16:10

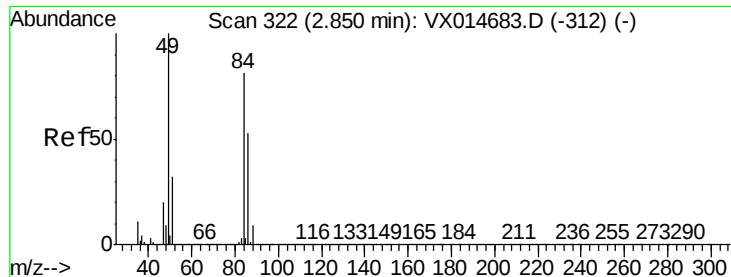
Tgt Ion: 43 Resp: 17134

Ion Ratio Lower Upper

43 100

58 28.9 24.5 36.7

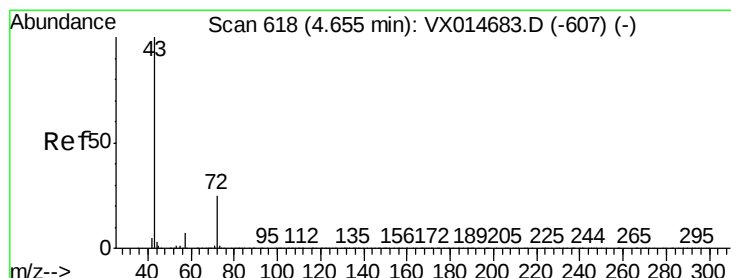
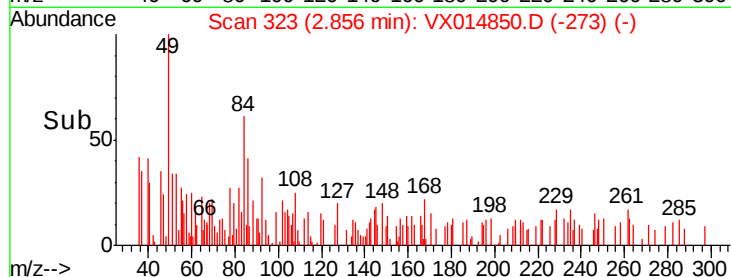
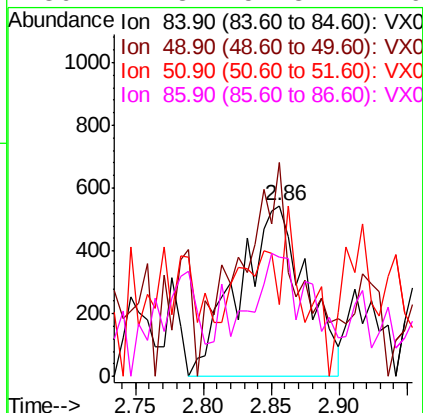
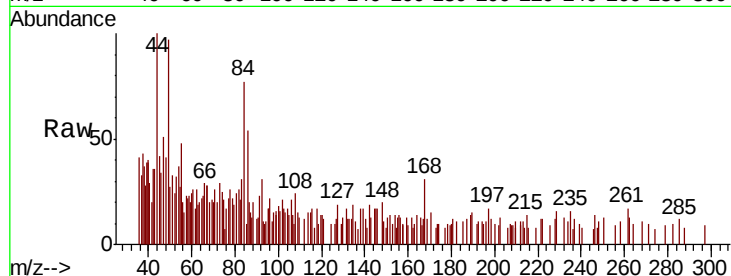




#20  
Methvlene Chloride  
Concen: 0.347 ug/l  
RT: 2.86 min Scan# 323  
Delta R.T. 0.01 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

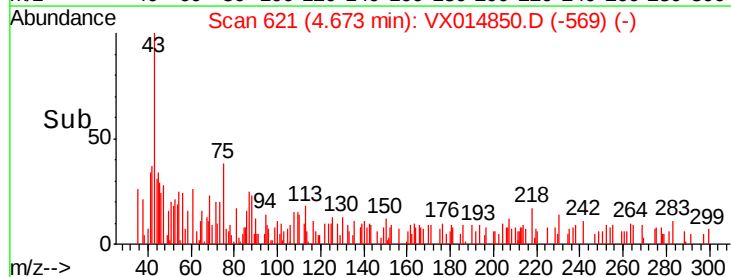
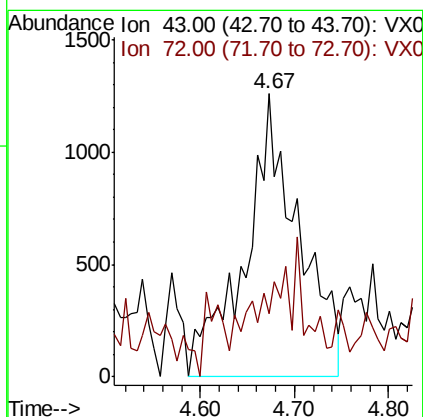
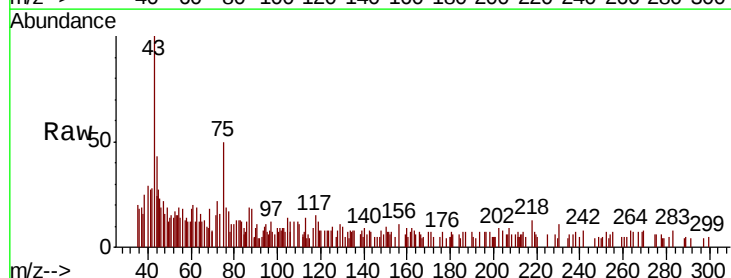
Instrument :  
MSVOA\_X  
ClientSampleId :

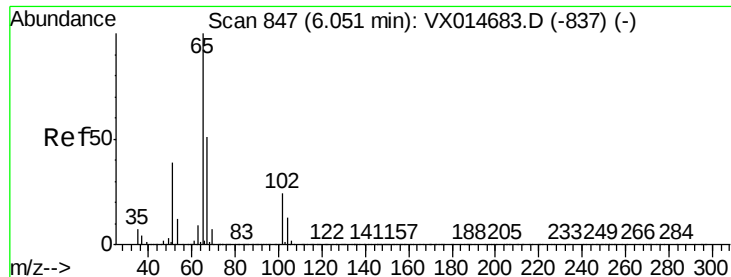
Tot Ion: 84 Resp: 1874  
Ion Ratio Lower Upper  
84 100  
49 91.0 98.2 147.4#  
51 4.4 31.3 46.9#  
86 47.3 51.8 77.6#



#25  
2-Butanone  
Concen: 1.198 ug/l  
RT: 4.67 min Scan# 621  
Delta R.T. 0.02 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

Tgt Ion: 43 Resp: 5007  
Ion Ratio Lower Upper  
43 100  
72 12.9 19.9 29.9#





#33

1,2-Dichloroethane-d4

Concen: 47.525 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

Instrument :

MSVOA\_X

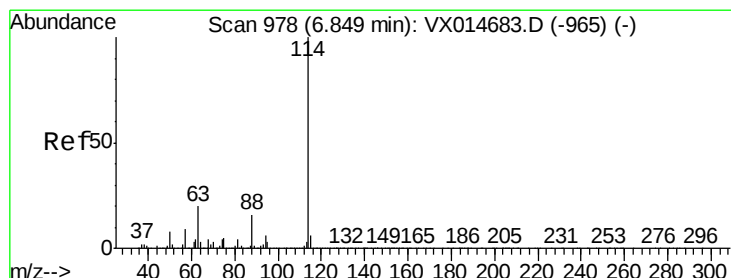
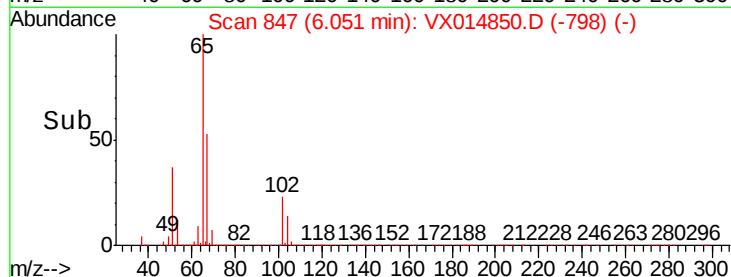
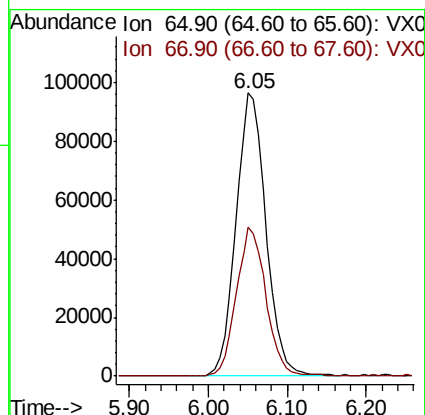
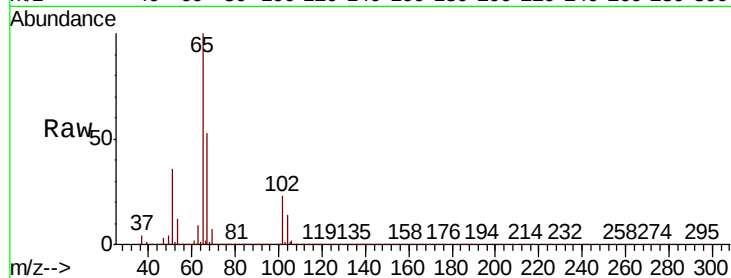
ClientSampled :

Tot Ion: 65 Resp: 252867

Ion Ratio Lower Upper

65 100

67 51.9 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

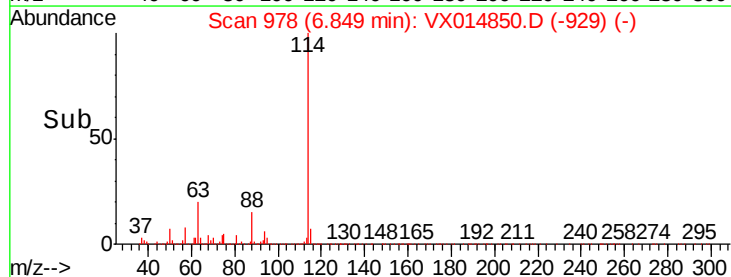
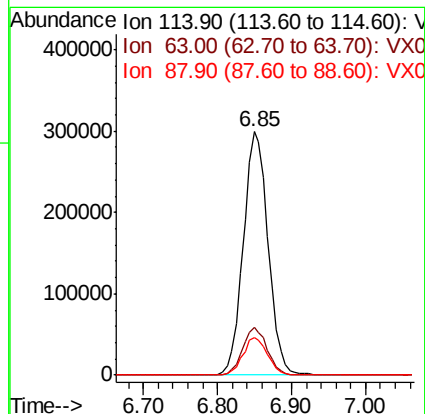
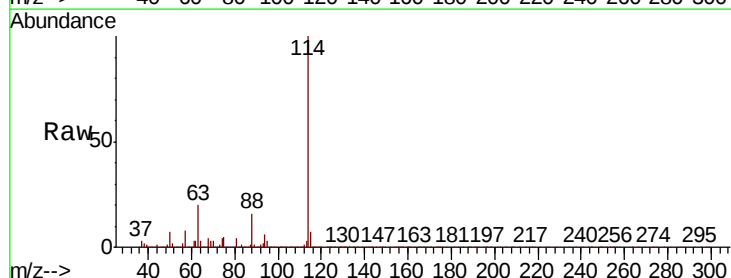
Tgt Ion: 114 Resp: 698463

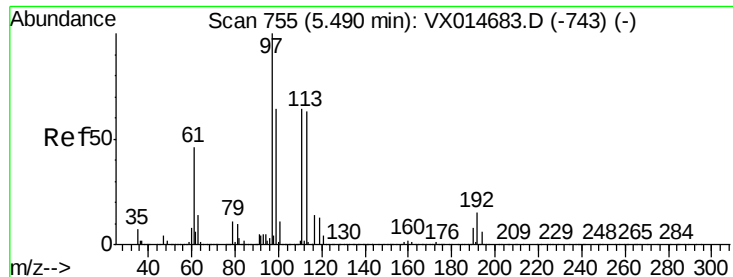
Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

88 15.5 0.0 31.2

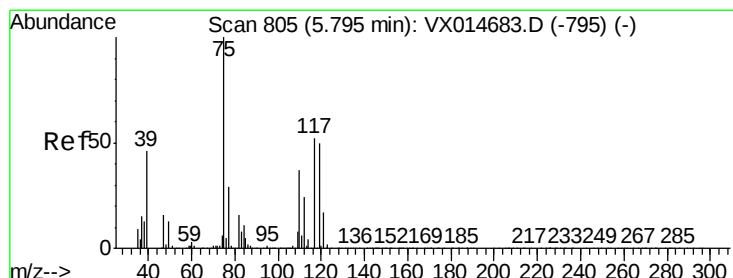
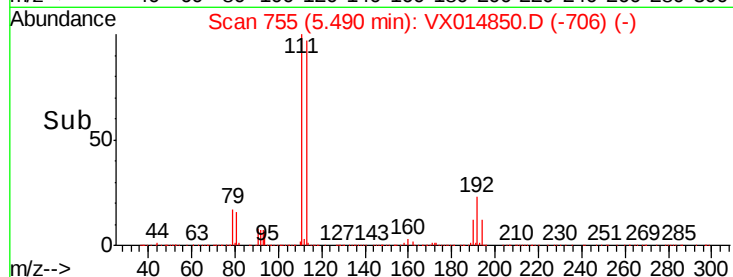
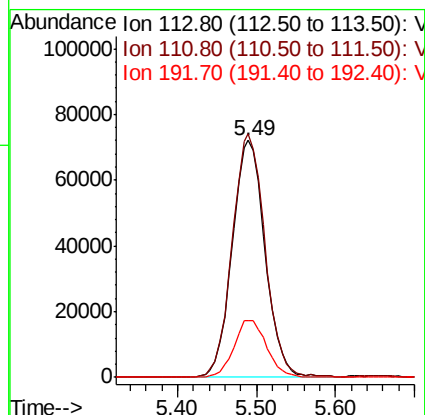
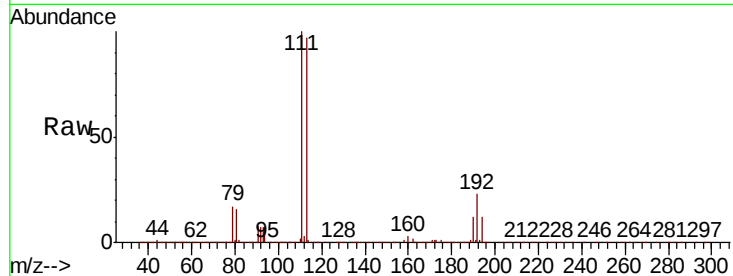




#35  
 Dibromofluoromethane  
 Concen: 47.170 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX014850.D  
 Acq: 06 Feb 2020 16:10

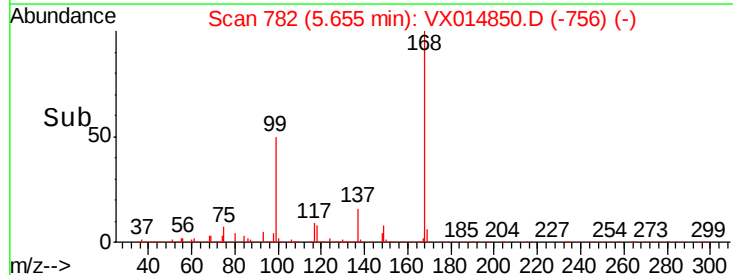
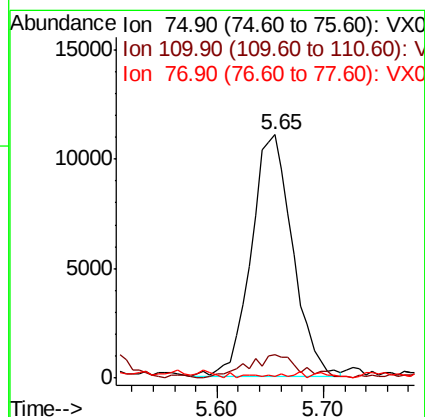
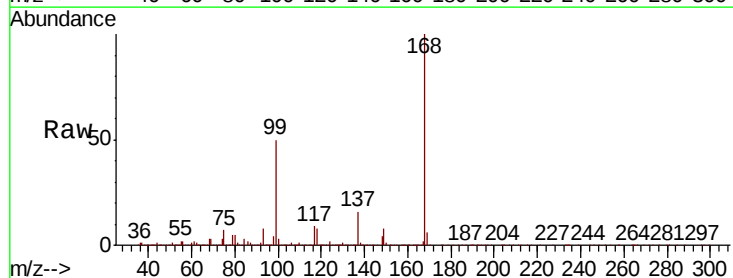
Instrument :  
 MSVOA\_X  
 ClientSampleId :

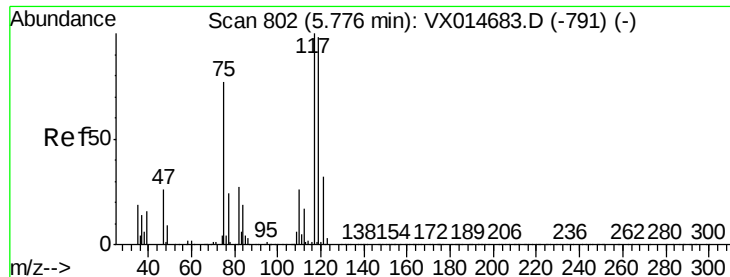
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 80.7  | 121.1 |
| 192     | 24.2  | 18.5  | 27.7  |



#36  
 1,1-Dichloropropene  
 Concen: 4.618 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.14 min  
 Lab File: VX014850.D  
 Acq: 06 Feb 2020 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 12.1  | 17.9  | 53.7# |
| 77      | 0.0   | 24.1  | 36.1# |





#38

Carbon Tetrachloride

Concen: 6.289 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

Instrument :

MSVOA\_X

ClientSampled :

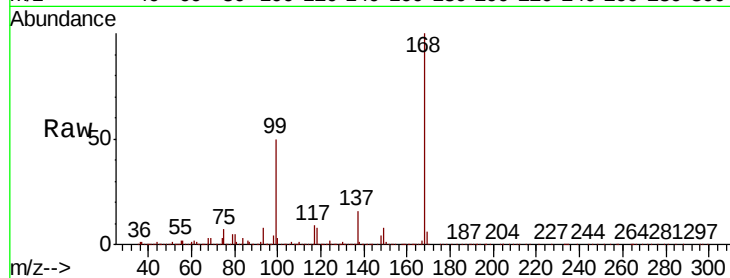
Tot Ion:117 Resp: 38981

Ion Ratio Lower Upper

117 100

119 4.2 77.9 116.9#

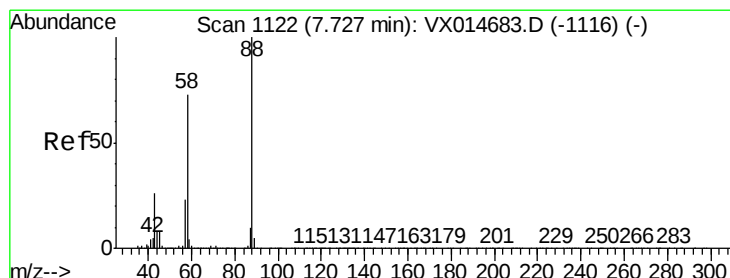
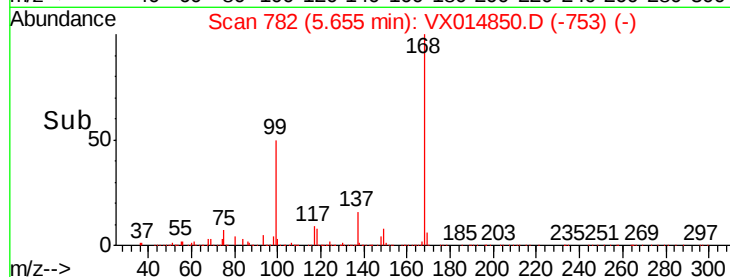
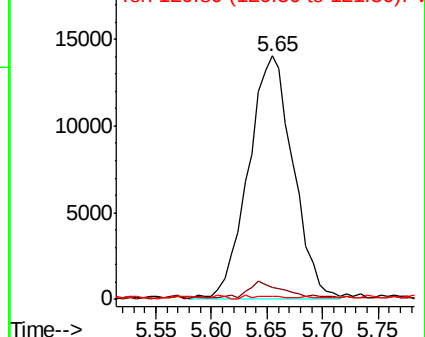
121 0.7 25.4 38.2#



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



#49

1,4-Dioxane

Concen: 3.537 ug/l

RT: 7.65 min Scan# 1109

Delta R.T. -0.08 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

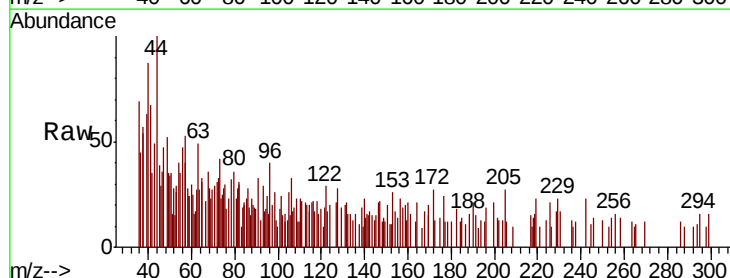
Tgt Ion: 88 Resp: 436

Ion Ratio Lower Upper

88 100

43 32.8 26.2 39.2

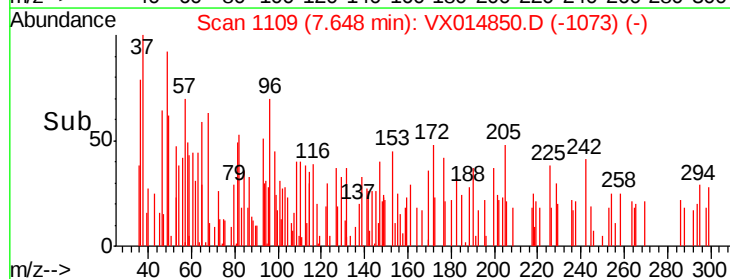
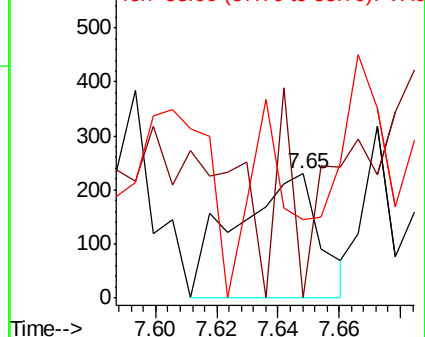
58 72.2 56.6 85.0

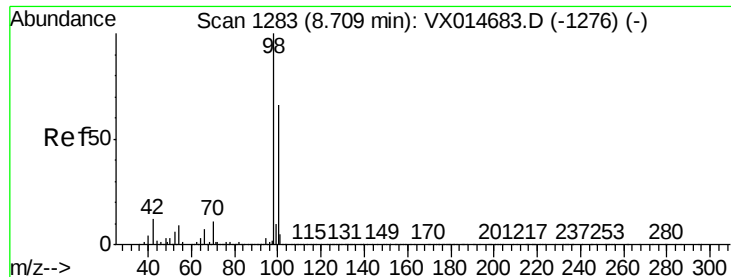


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

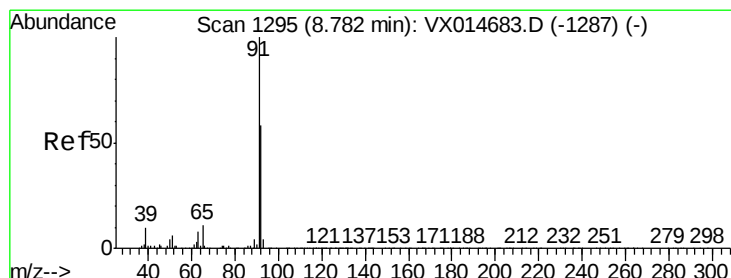
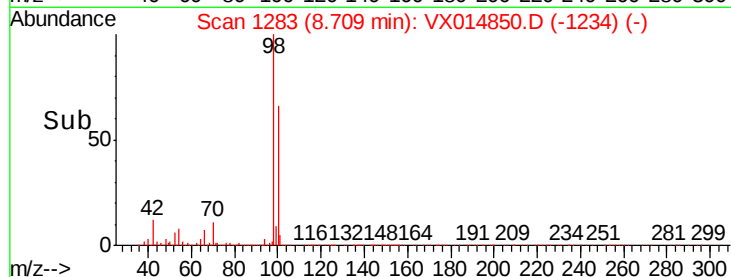
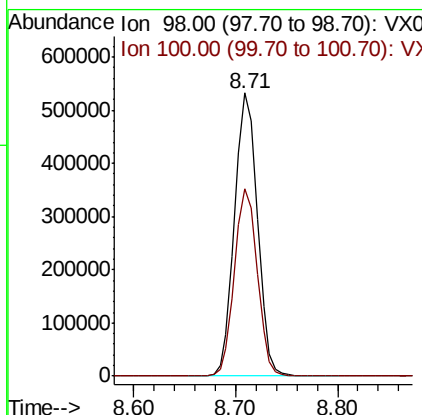
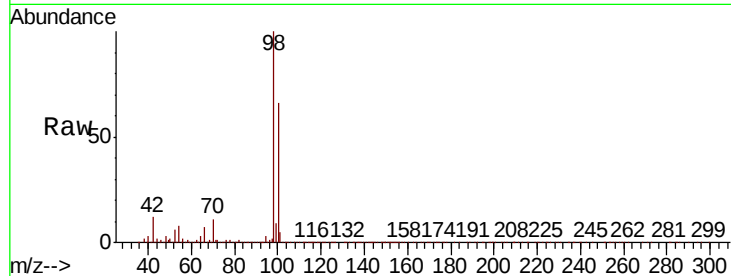




#50  
Toluene-d8  
Concen: 48.603 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

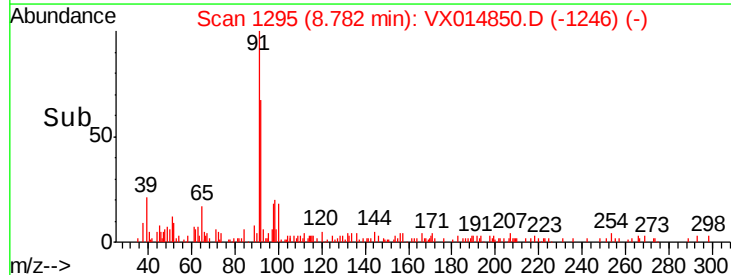
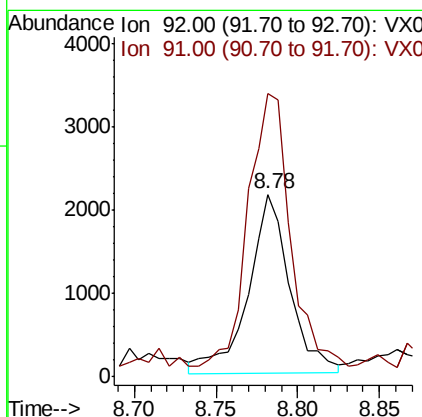
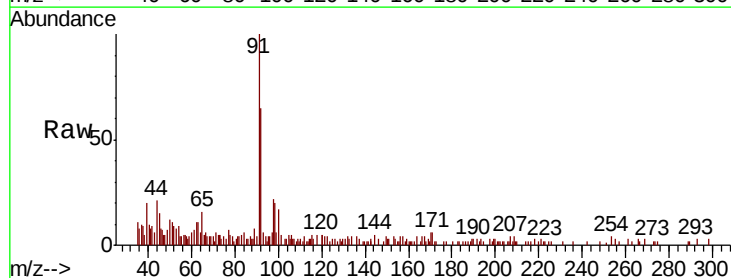
Instrument :  
MSVOA\_X  
ClientSampleId :

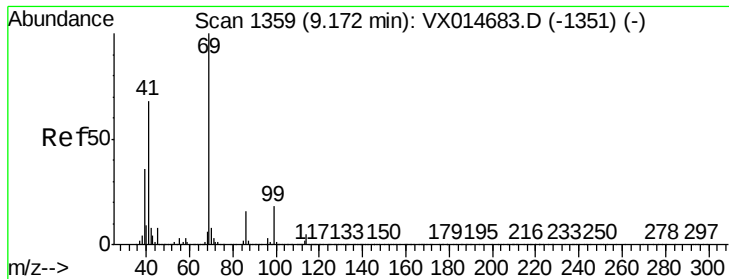
Tot Ion: 98 Resp: 823489  
Ion Ratio Lower Upper  
98 100  
100 66.0 53.0 79.6



#52  
Toluene  
Concen: 0.310 ug/l  
RT: 8.78 min Scan# 1295  
Delta R.T. 0.00 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

Tgt Ion: 92 Resp: 3826  
Ion Ratio Lower Upper  
92 100  
91 167.0 135.9 203.9





#56

Ethyl methacrylate

Concen: 1.816 ug/l

RT: 9.19 min Scan# 1362

Delta R.T. 0.02 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

Instrument :

MSVOA\_X

ClientSampled :

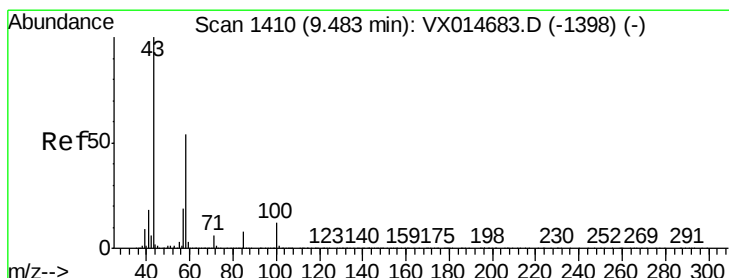
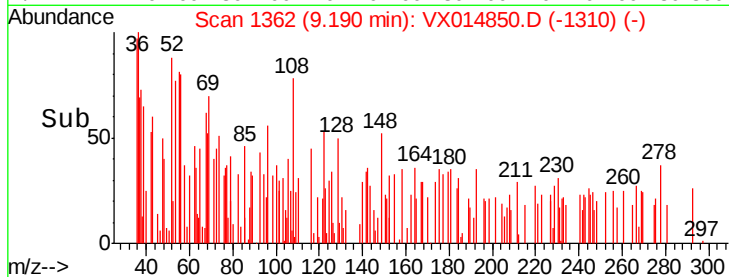
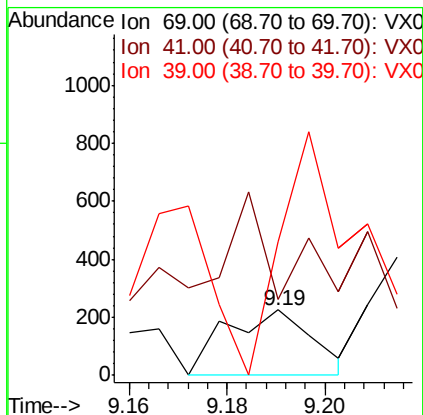
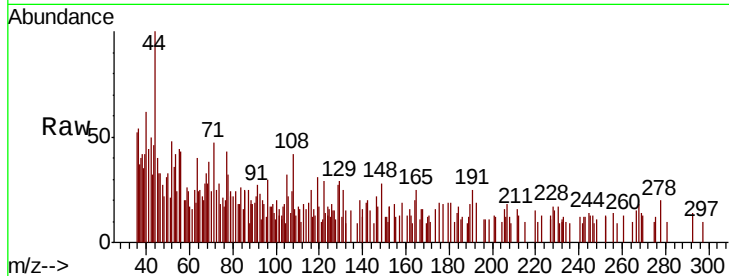
Tot Ion: 69 Resp: 277

Ion Ratio Lower Upper

69 100

41 340.8 54.9 82.3#

39 367.5 29.3 43.9#



#59

2-Hexanone

Concen: 0.203 ug/l

RT: 9.31 min Scan# 1381

Delta R.T. -0.18 min

Lab File: VX014850.D

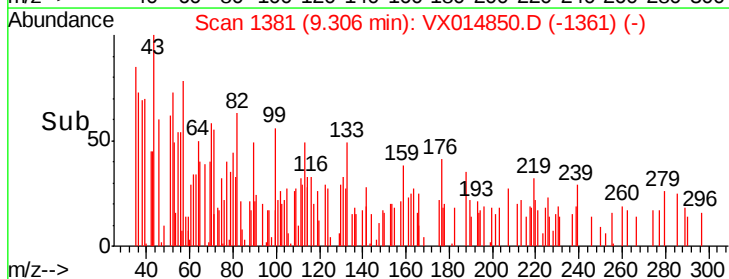
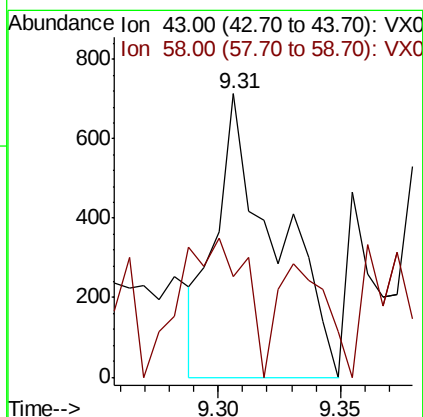
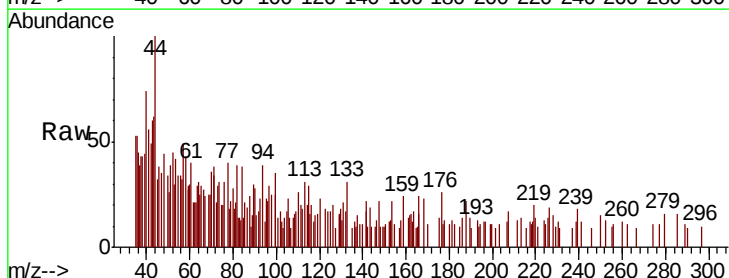
Acq: 06 Feb 2020 16:10

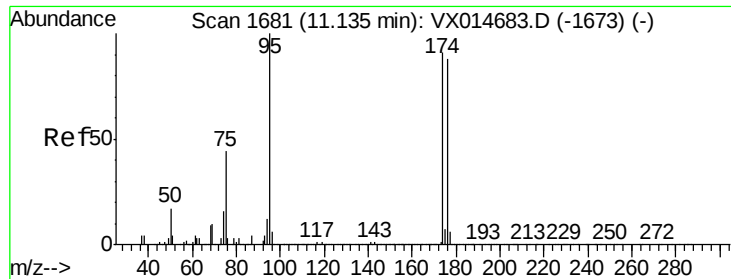
Tgt Ion: 43 Resp: 1209

Ion Ratio Lower Upper

43 100

58 53.8 27.2 81.5





#62

4-Bromofluorobenzene

Concen: 48.895 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

Instrument :

MSVOA\_X

ClientSampleId :

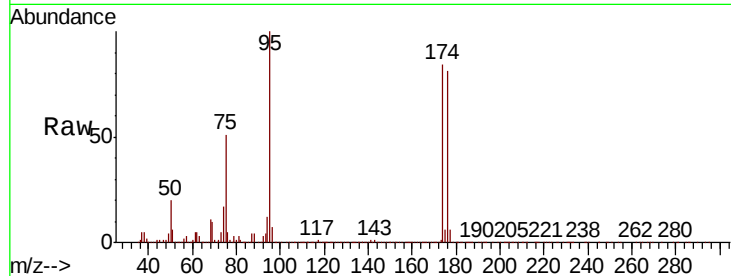
Tot Ion: 95 Resp: 295108

Ion Ratio Lower Upper

95 100

174 91.0 0.0 176.0

176 89.7 0.0 172.2

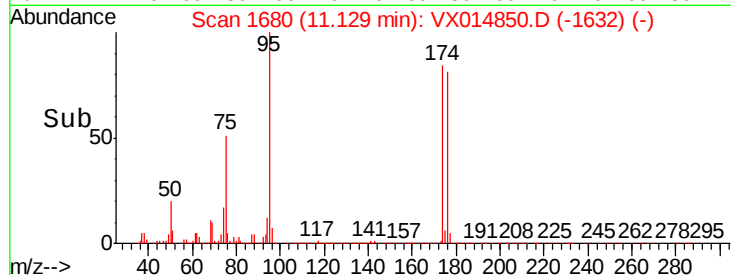


Abundance Ion 94.90 (94.60 to 95.60): VX014850.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX014850.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX014850.D (-1632) (-)

Time-->



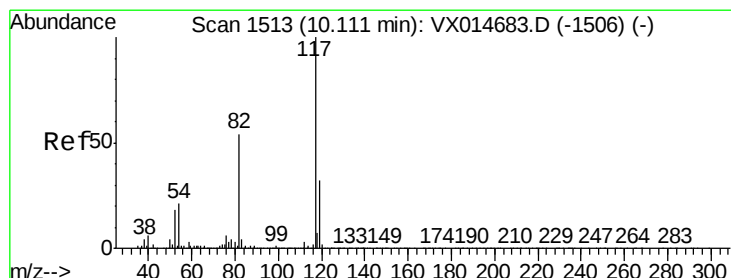
Abundance

Ion 94.90 (94.60 to 95.60): VX014850.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX014850.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX014850.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014850.D

Acq: 06 Feb 2020 16:10

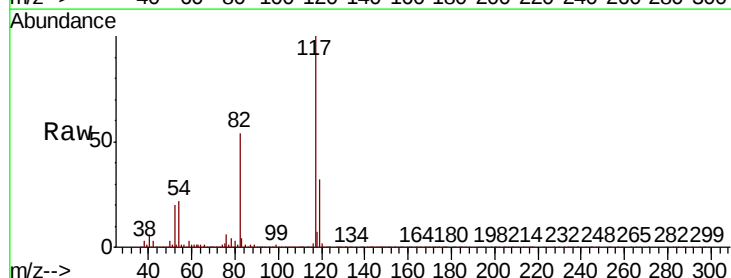
Tgt Ion: 117 Resp: 646479

Ion Ratio Lower Upper

117 100

82 54.4 43.2 64.8

119 31.8 25.8 38.6

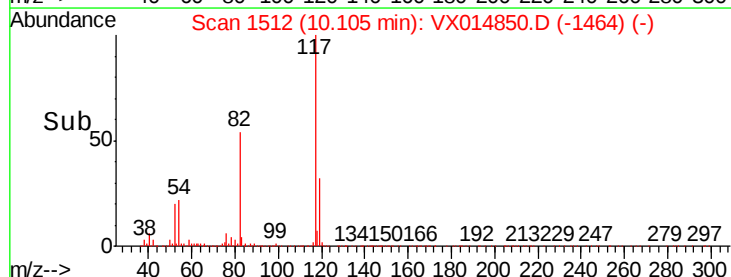


Abundance Ion 116.90 (116.60 to 117.60): VX014850.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014850.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014850.D (-1464) (-)

Time-->



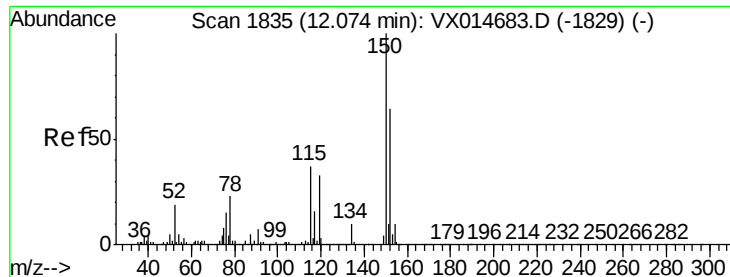
Abundance

Ion 116.90 (116.60 to 117.60): VX014850.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014850.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014850.D (-1464) (-)

Time-->

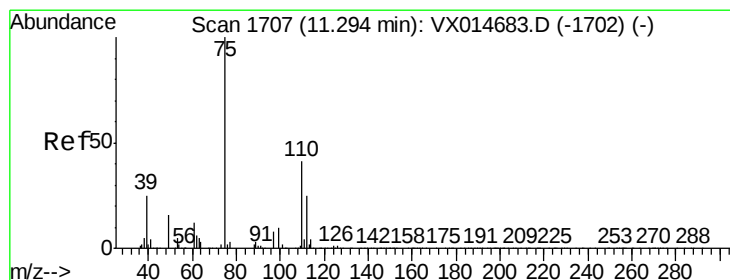
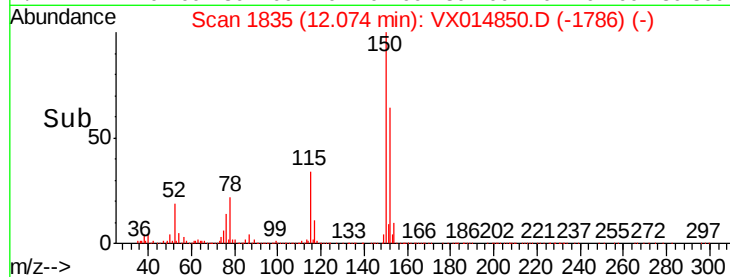
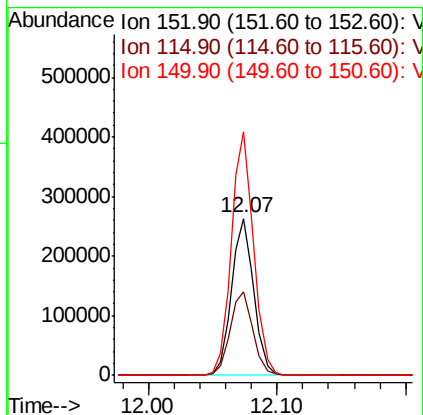
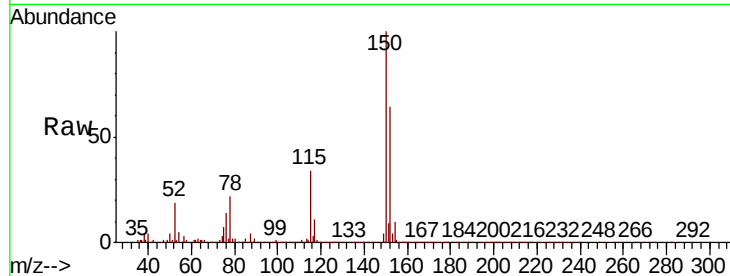


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

Instrument :  
MSVOA\_X  
ClientSampleId :

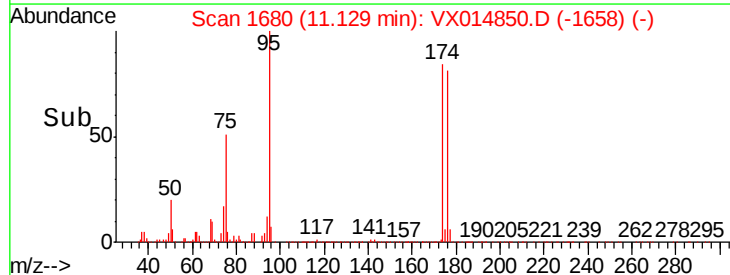
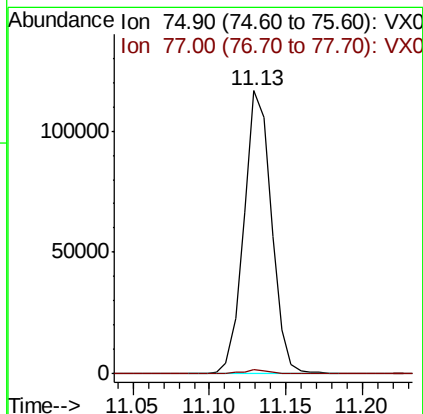
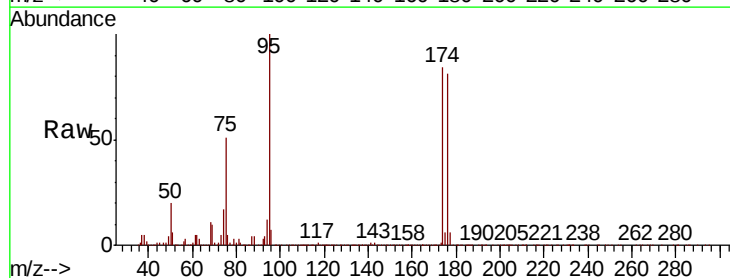
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.6  | 39.4  | 118.1 |
| 150     | 155.5 | 0.0   | 351.2 |

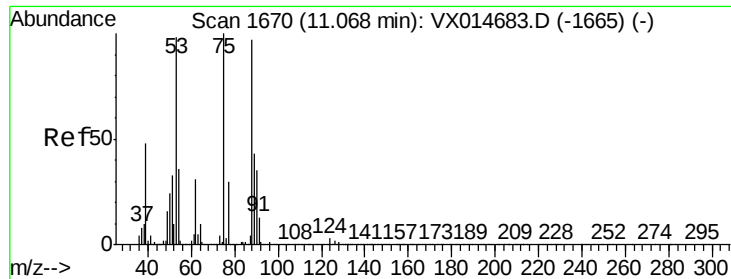


#76

1,2,3-Trichloropropane  
Concen: 19.767 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.16 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.6   | 18.7  | 56.1  |

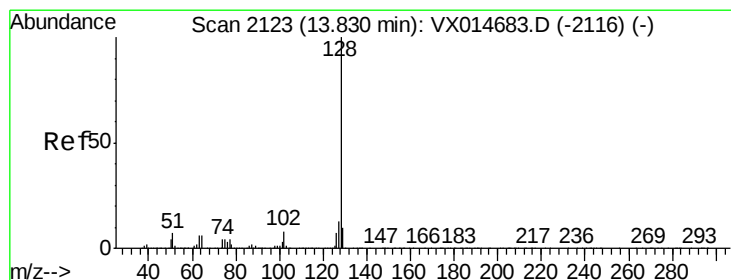
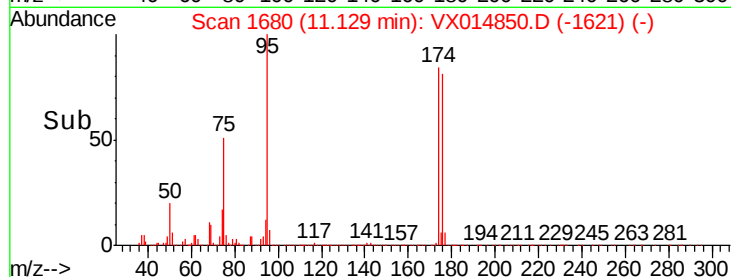
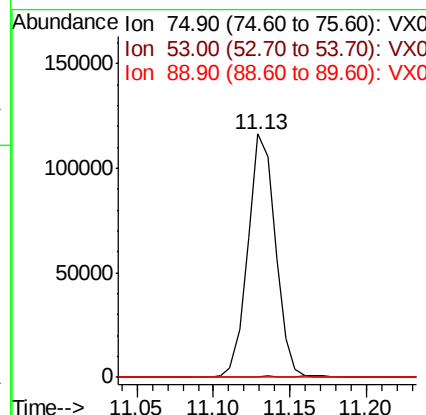
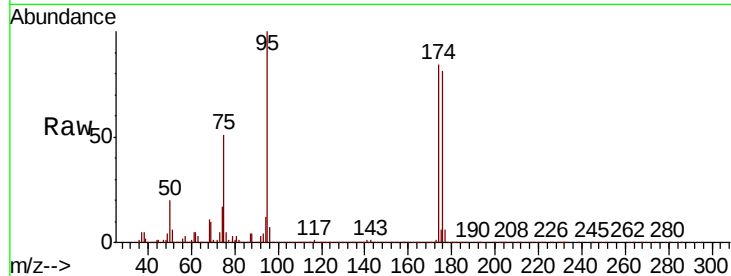




#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.252 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.06 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 75 Resp: 145300  
Ion Ratio Lower Upper  
75 100  
53 0.2 78.8 118.2#  
89 0.1 35.4 53.0#



#95  
Naphthalene  
Concen: 1.142 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX014850.D  
Acq: 06 Feb 2020 16:10

Tgt Ion: 128 Resp: 4752  
Ion Ratio Lower Upper  
128 100  
127 21.5 10.3 15.5#  
129 18.5 8.6 12.8#

