

Data File : VX001281.D

Acq On : 01 May 2018 16:15

Operator : JC/MD

Sample : J2616-18 5X

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
CONCRETE-1

Quant Time: May 02 02:03:36 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M

Quant Title : SW846 8260

QLast Update : Wed May 02 01:48:25 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 187157   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 244615   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 213003   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 111040   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 109889   | 42.42 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 84.84% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 88765    | 42.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 84.24% |      |
| 50) Toluene-d8            | 8.72   | 98  | 343199   | 45.58 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.16% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 106678   | 35.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 70.86% |      |

## Target Compounds

|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 1.62  | 94  | 203   | Below Cal | #      | 2      |
| 10) Methyl Iodide              | 2.52  | 142 | 307   | 4.45      | ug/l # | 90     |
| 13) Acrolein                   | 2.29  | 56  | 101   | 0.39      | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43  | 3280  | 2.97      | ug/l # | 80     |
| 17) Carbon Disulfide           | 2.57  | 76  | 1102  | 0.23      | ug/l # | 59     |
| 20) Methylene Chloride         | 2.86  | 84  | 76877 | 38.15     | ug/l   | 97     |
| 25) 2-Butanone                 | 4.72  | 43  | 557   | 0.37      | ug/l   | 98     |
| 28) Bromochloromethane         | 5.02  | 49  | 331   | 0.21      | ug/l # | 53     |
| 29) Tetrahydrofuran            | 5.18  | 42  | 695   | 0.76      | ug/l # | 38     |
| 30) Chloroform                 | 5.22  | 83  | 2175  | 0.58      | ug/l   | 96     |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 11094 | 3.93      | ug/l # | 45     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 15725 | 5.32      | ug/l # | 19     |
| 47) Bromodichloromethane       | 7.91  | 83  | 575   | 0.22      | ug/l # | 90     |
| 68) m/p-Xylenes                | 10.36 | 106 | 1087  | 0.29      | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 54273 | 26.43     | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 54273 | 82.91     | ug/l # | 6      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105 | 2682  | 0.42      | ug/l   | 96     |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180 | 692   | 0.22      | ug/l   | 93     |
| 95) Naphthalene                | 13.84 | 128 | 65556 | 8.07      | ug/l   | 99     |

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

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Sample : J2616-18 5X

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 14 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

CONCRETE-1

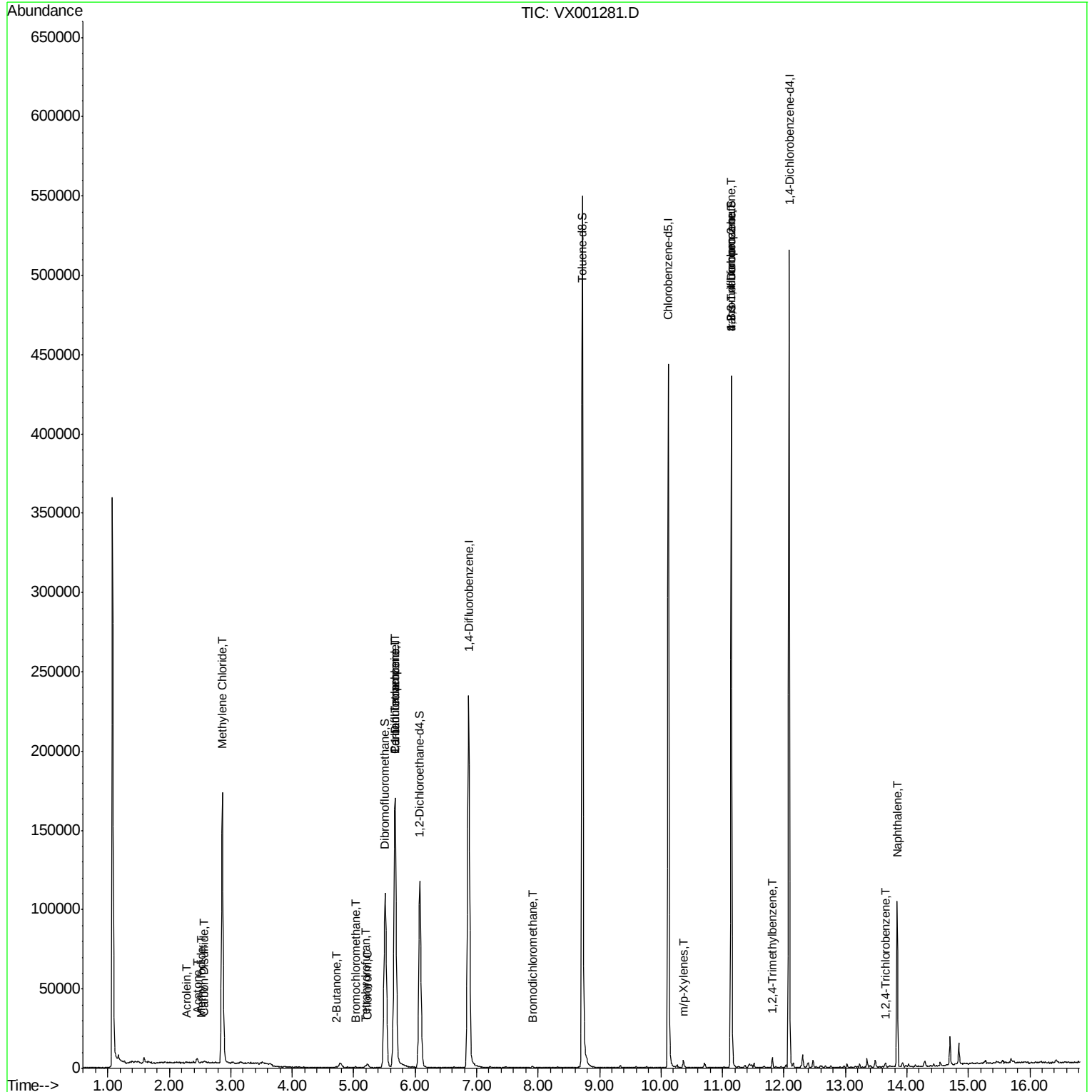
Quant Time: May 02 02:03:36 2018

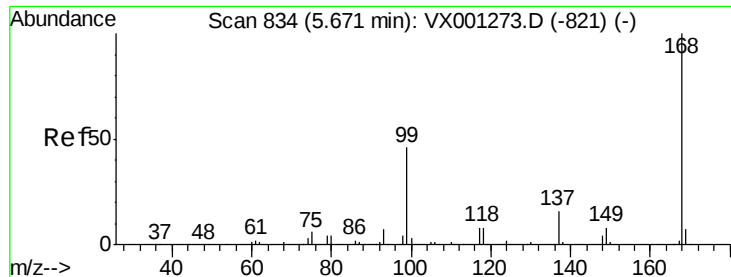
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M

Quant Title : SW846 8260

QLast Update : Wed May 02 01:48:25 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001281.D

Acq: 01 May 2018 16:15

Instrument :

MSVOA\_X

ClientSampleId :

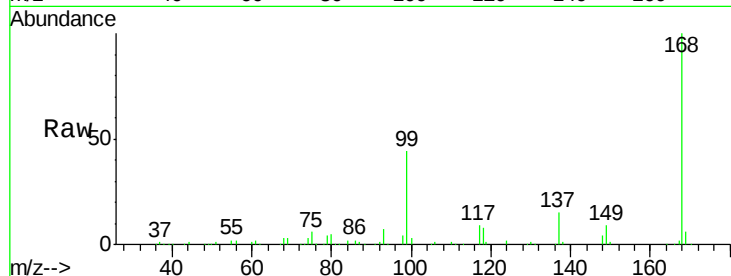
CONCRETE-1

Tgt Ion:168 Resp: 187157

Ion Ratio Lower Upper

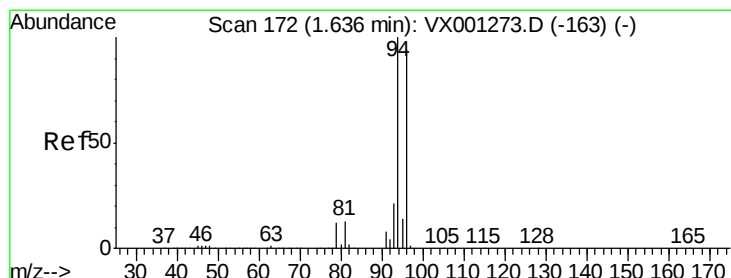
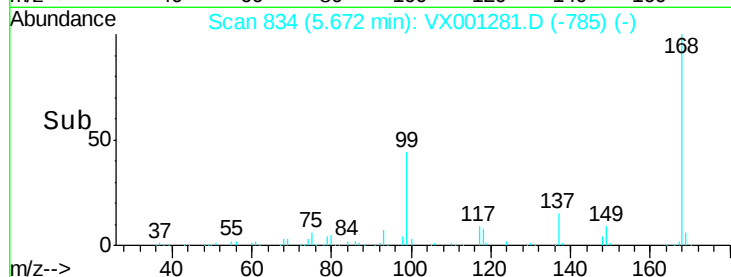
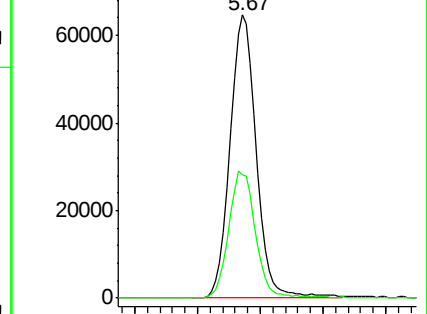
168 100

99 43.5 36.5 54.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.02 min

Lab File: VX001281.D

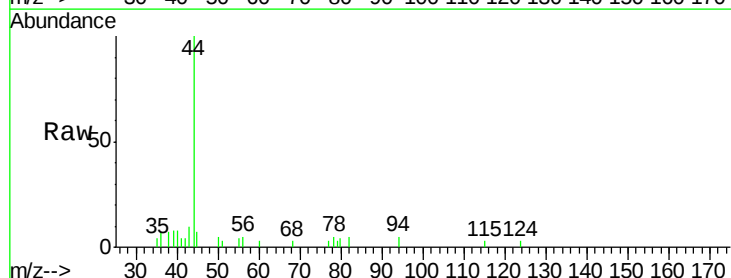
Acq: 01 May 2018 16:15

Tgt Ion: 94 Resp: 203

Ion Ratio Lower Upper

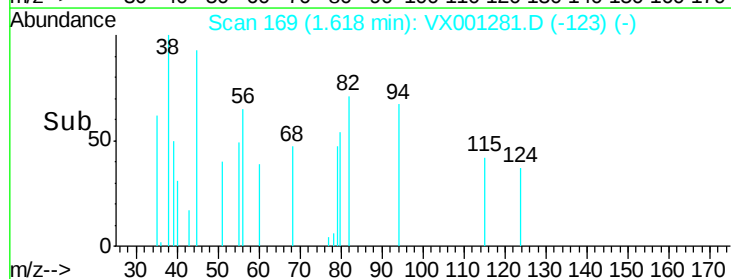
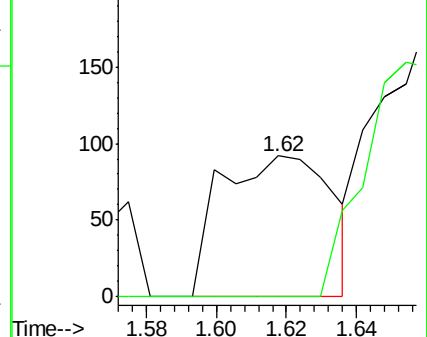
94 100

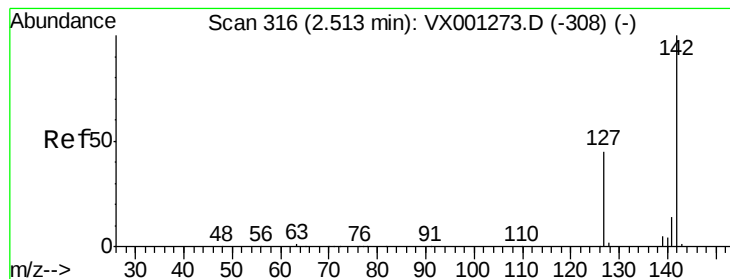
96 0.0 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 4.45 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001281.D

Acq: 01 May 2018 16:15

Instrument :

MSVOA\_X

ClientSampled :

CONCRETE-1

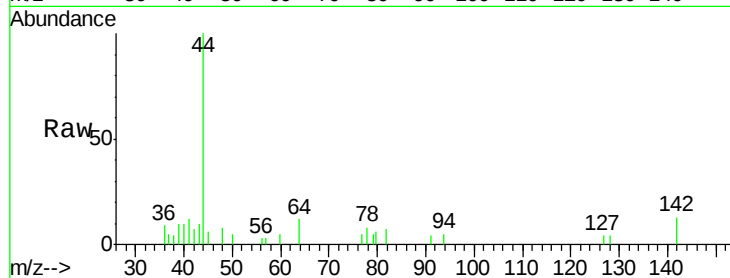
Tgt Ion:142 Resp: 307

Ion Ratio Lower Upper

142 100

127 43.6 35.7 53.5

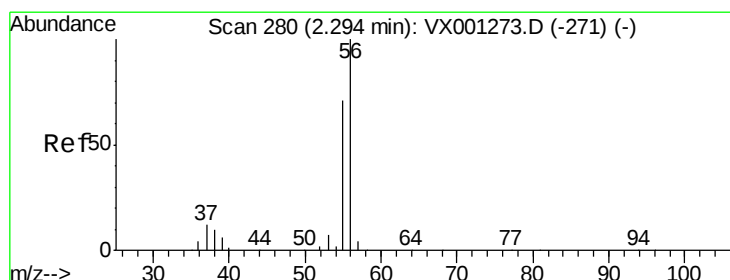
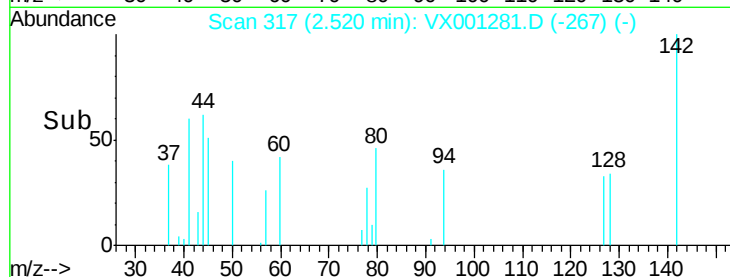
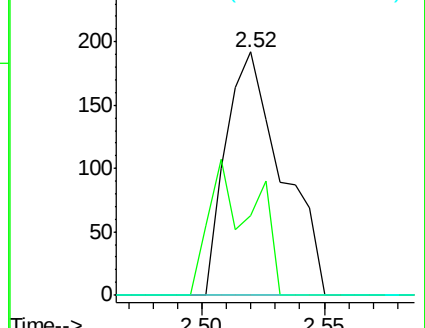
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#13

Acrolein

Concen: 0.39 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX001281.D

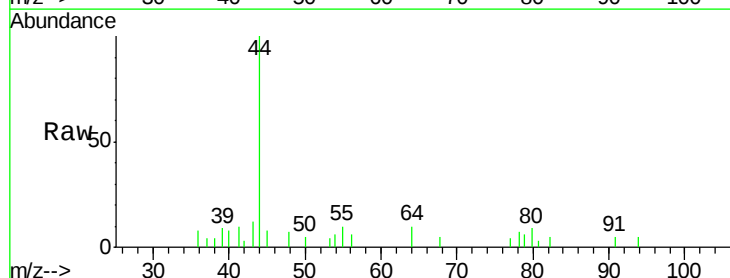
Acq: 01 May 2018 16:15

Tgt Ion: 56 Resp: 101

Ion Ratio Lower Upper

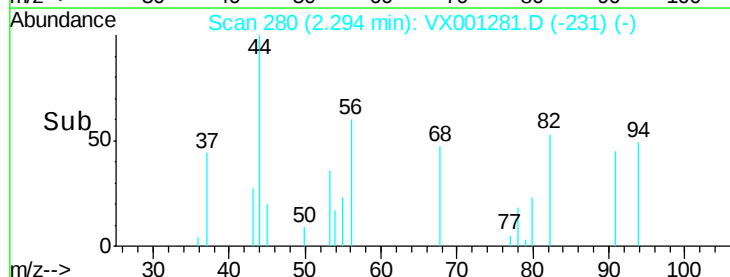
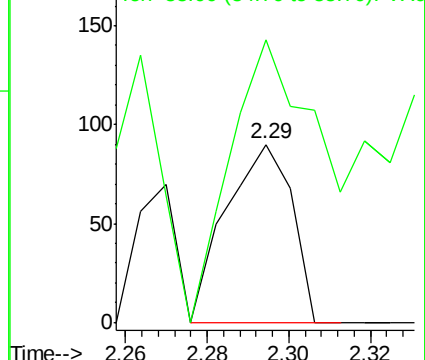
56 100

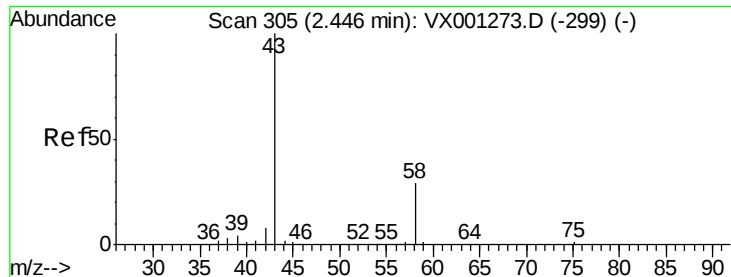
55 212.9 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.97 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001281.D

Acq: 01 May 2018 16:15

Instrument :

MSVOA\_X

ClientSampleId :

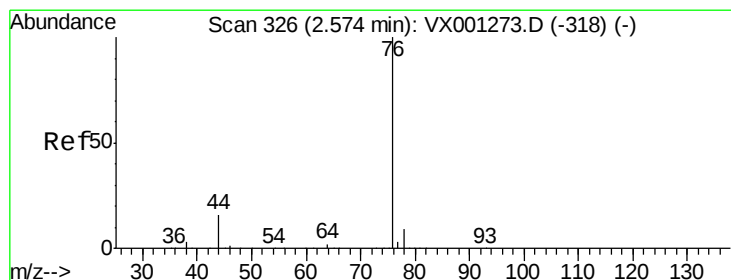
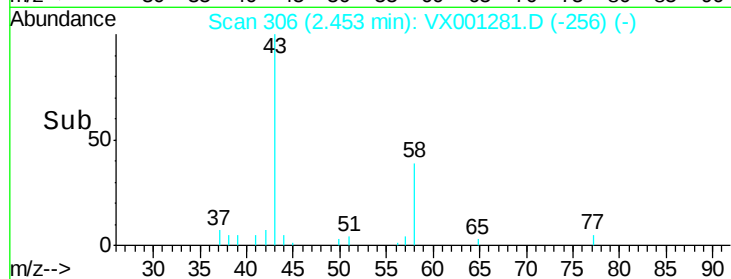
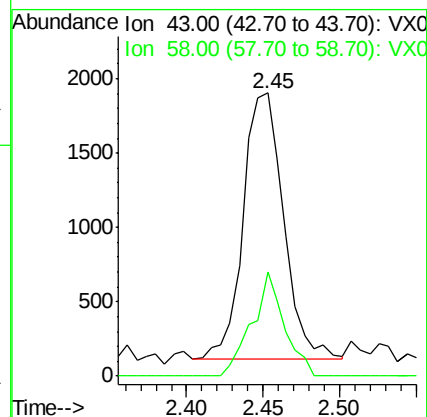
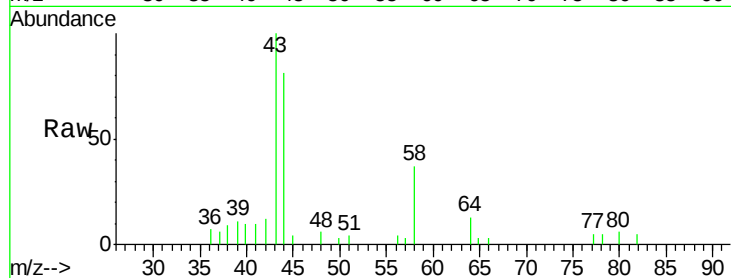
CONCRETE-1

Tgt Ion: 43 Resp: 3280

Ion Ratio Lower Upper

43 100

58 39.1 22.8 34.2#



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX001281.D

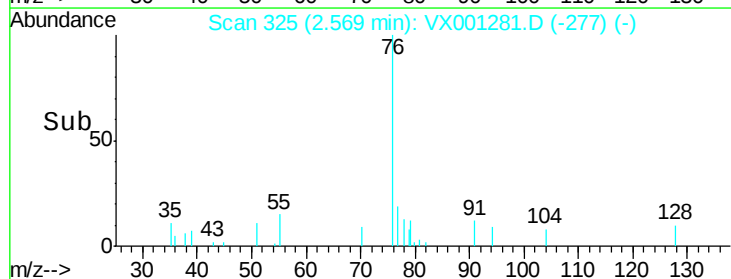
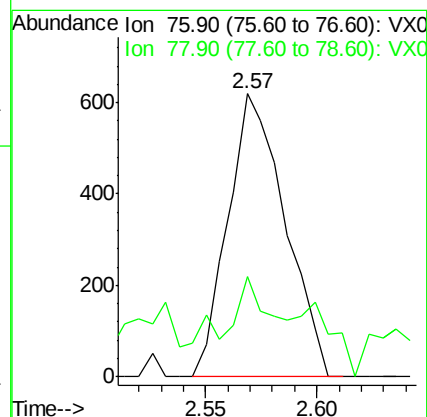
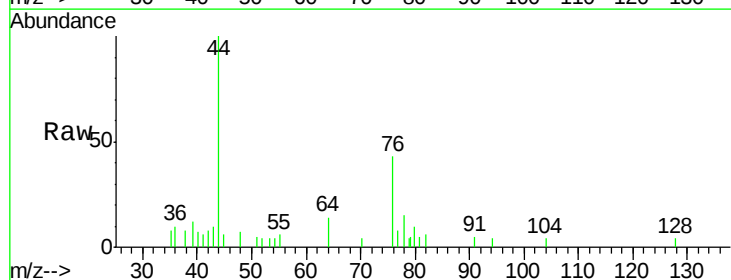
Acq: 01 May 2018 16:15

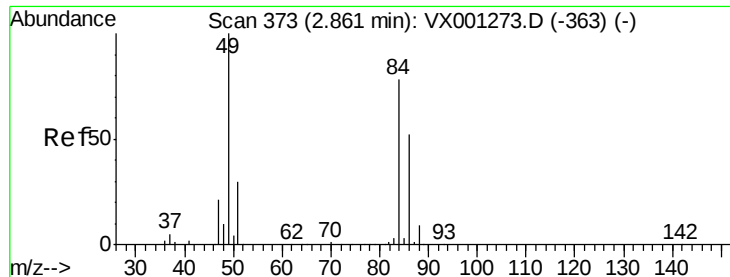
Tgt Ion: 76 Resp: 1102

Ion Ratio Lower Upper

76 100

78 23.6 7.0 10.4#

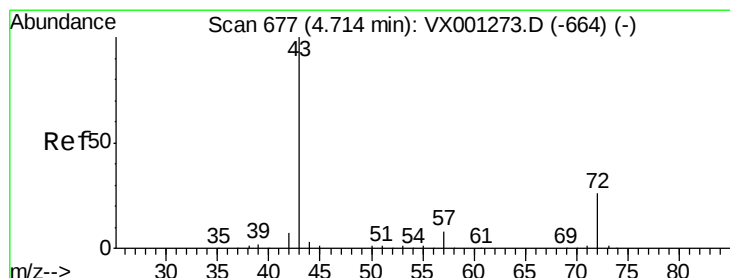
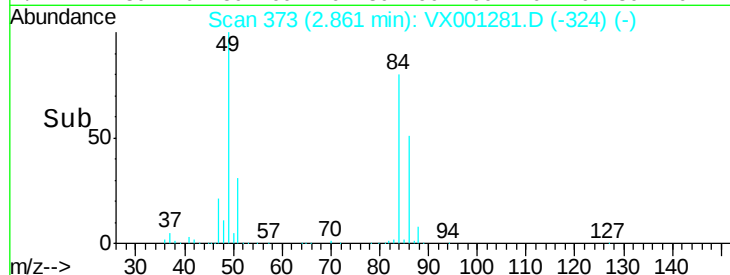
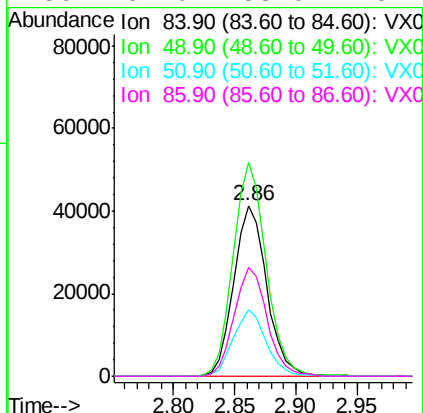
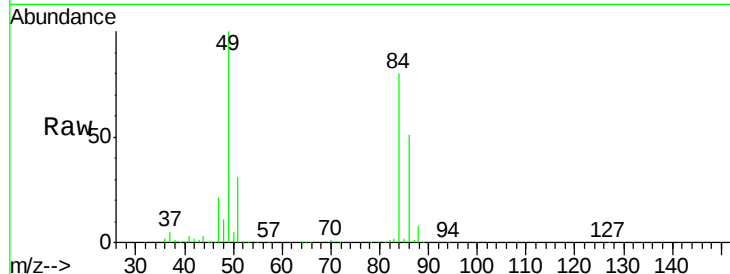




#20  
Methylene Chloride  
Concen: 38.15 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

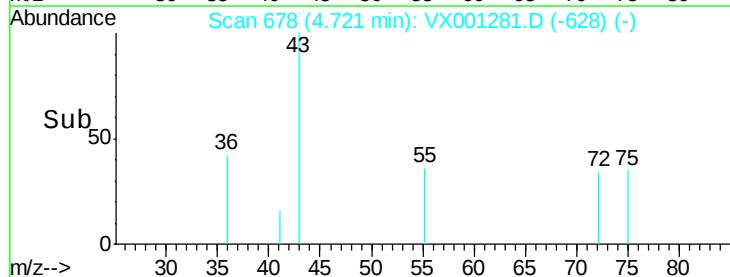
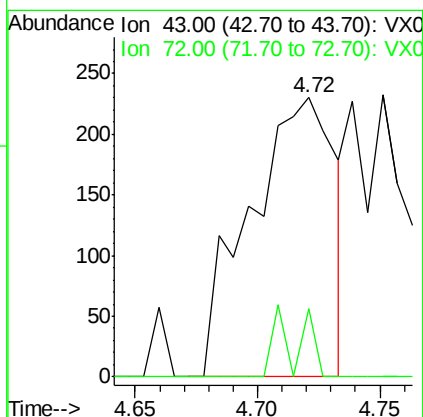
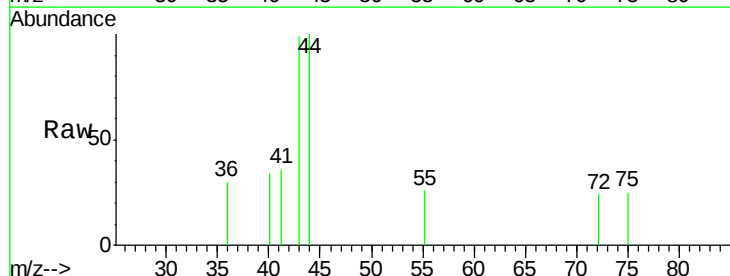
Instrument :  
MSVOA\_X  
ClientSampleId :  
CONCRETE-1

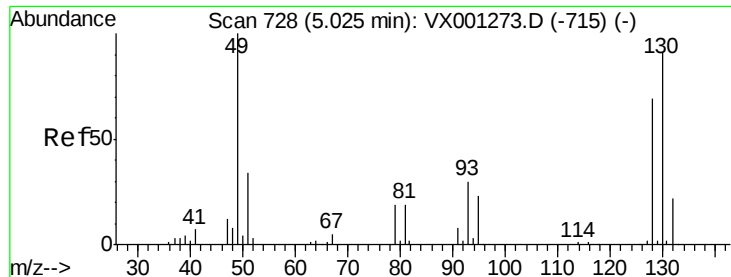
Tgt Ion: 84 Resp: 76877  
Ion Ratio Lower Upper  
84 100  
49 125.0 102.8 154.2  
51 38.9 30.9 46.3  
86 64.0 53.0 79.4



#25  
2-Butanone  
Concen: 0.37 ug/l  
RT: 4.72 min Scan# 678  
Delta R.T. 0.01 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

Tgt Ion: 43 Resp: 557  
Ion Ratio Lower Upper  
43 100  
72 24.3 20.5 30.7





#28

Bromochloromethane

Concen: 0.21 ug/l

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX001281.D

Acq: 01 May 2018 16:15

Instrument :

MSVOA\_X

ClientSampleId :

CONCRETE-1

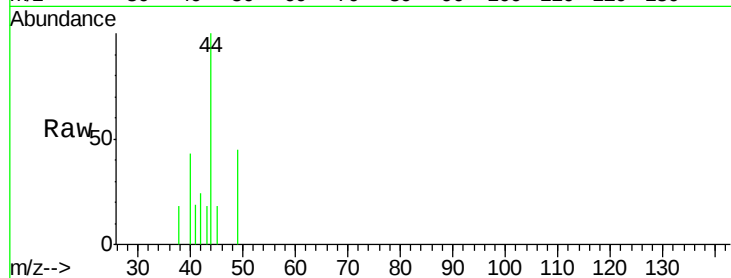
Tgt Ion: 49 Resp: 331

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

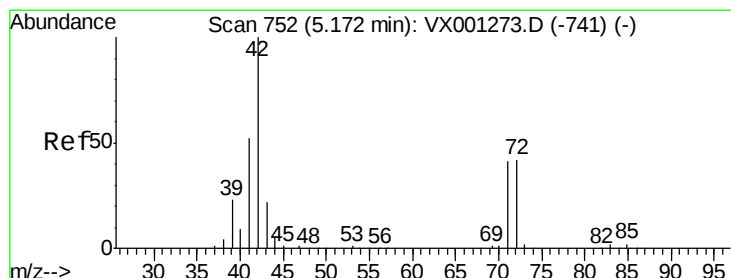
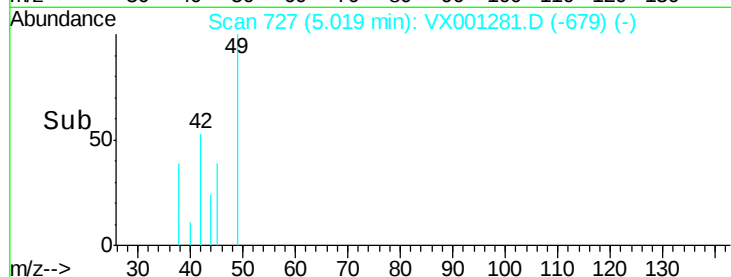
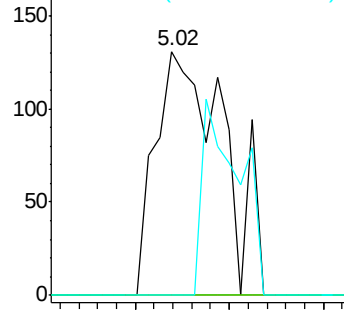
130 43.5 70.4 105.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.76 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001281.D

Acq: 01 May 2018 16:15

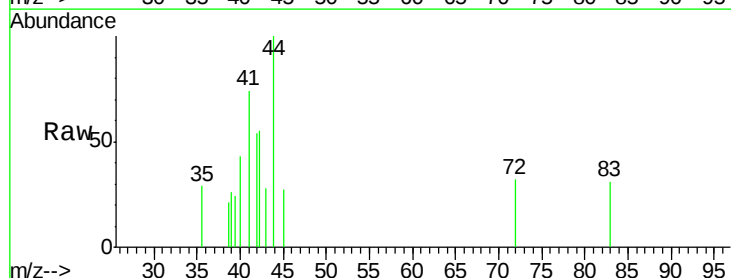
Tgt Ion: 42 Resp: 695

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

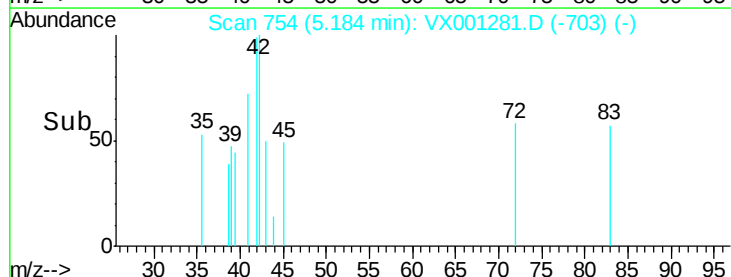
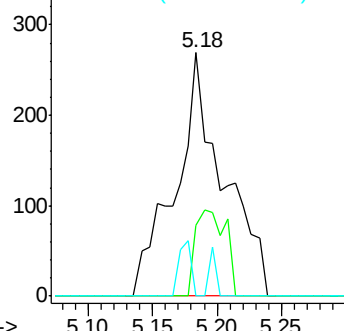
71 5.9 32.7 49.1#

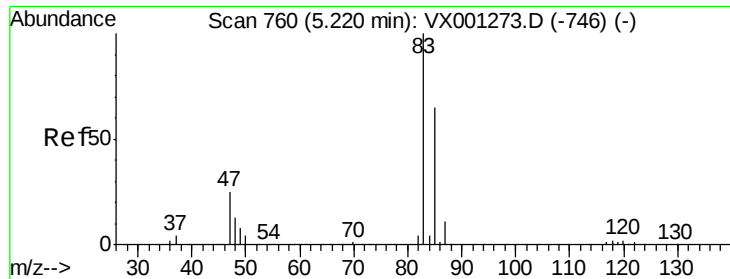


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

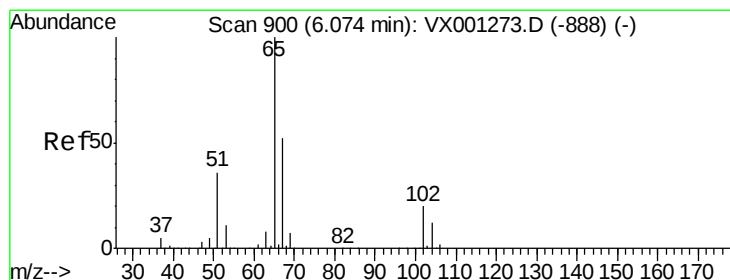
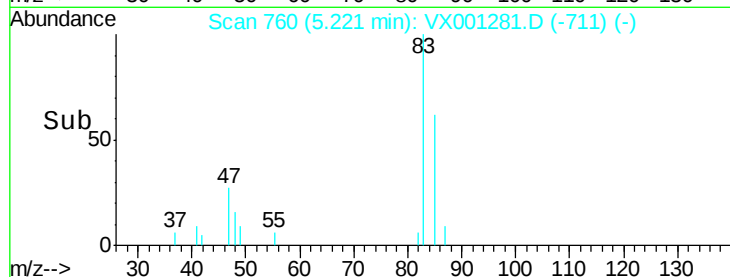
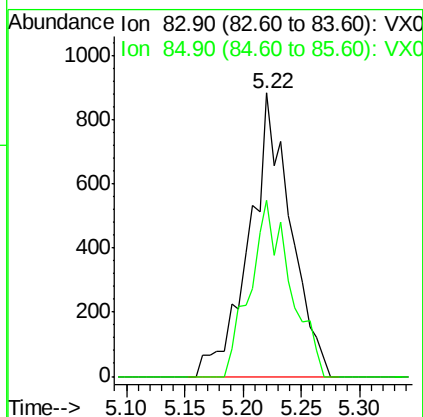
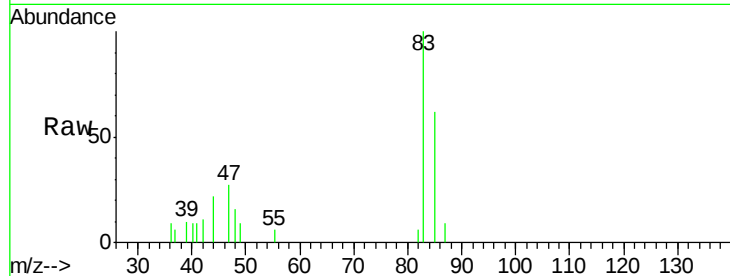




#30  
Chloroform  
Concen: 0.58 ug/l  
RT: 5.22 min Scan# 760  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

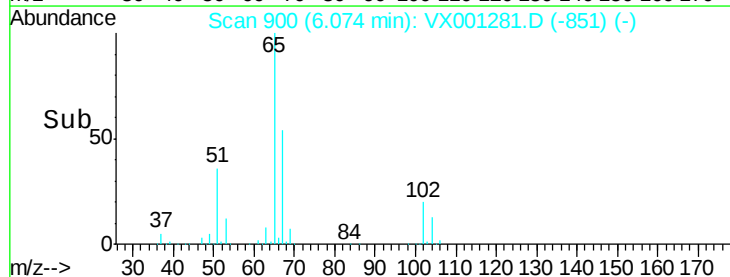
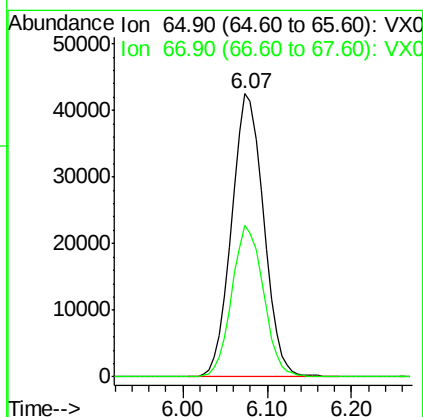
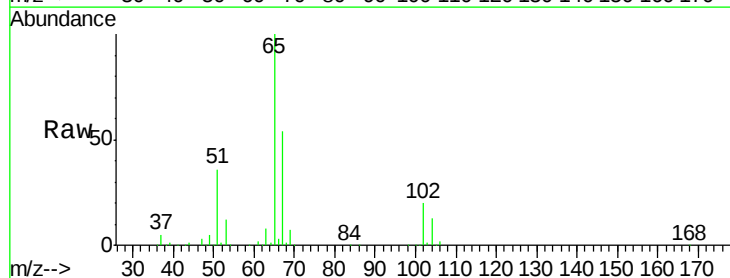
Instrument :  
MSVOA\_X  
ClientSampleId :  
CONCRETE-1

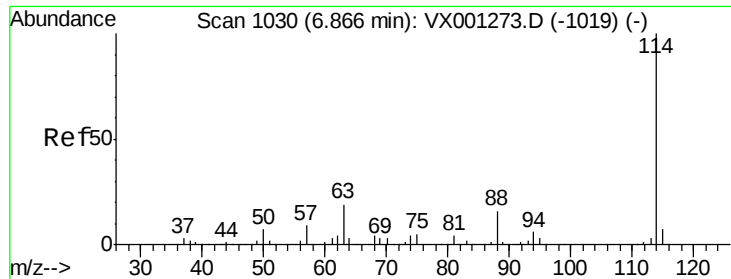
Tgt Ion: 83 Resp: 2175  
Ion Ratio Lower Upper  
83 100  
85 62.0 52.2 78.2



#33  
1,2-Dichloroethane-d4  
Concen: 42.42 ug/l  
RT: 6.07 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

Tgt Ion: 65 Resp: 109889  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 102.8

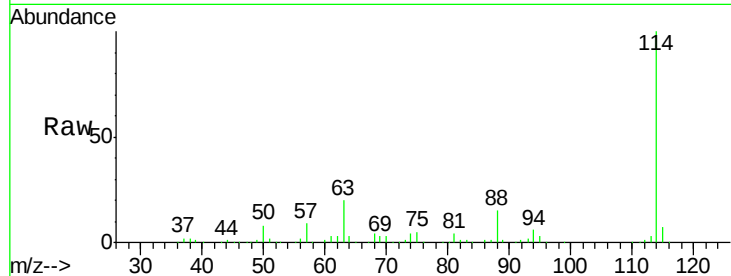




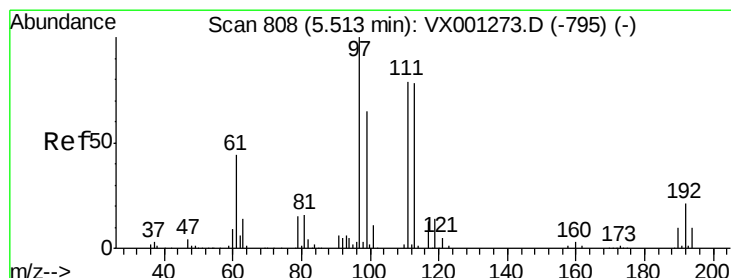
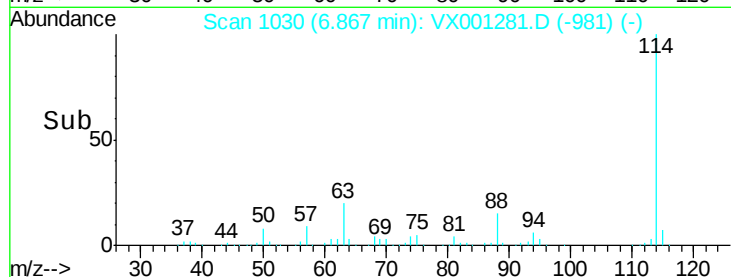
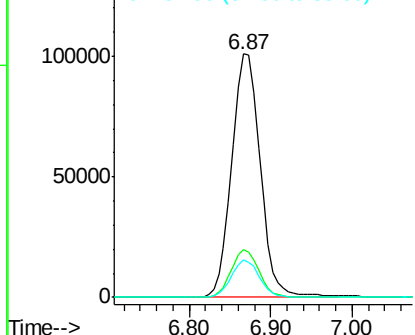
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CONCRETE-1

Tgt Ion:114 Resp: 244615  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 38.8  
 88 15.3 0.0 32.2

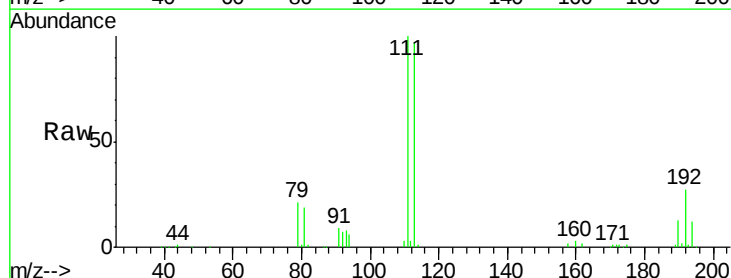


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX  
 Ion 87.90 (87.60 to 88.60): VX

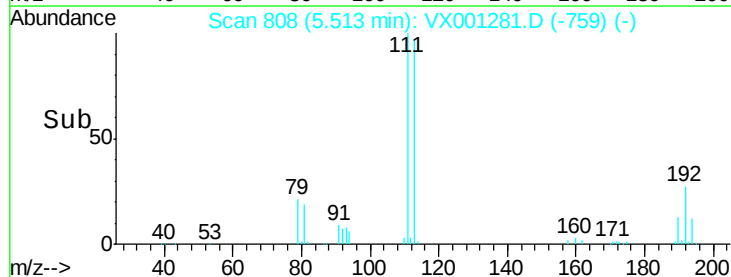
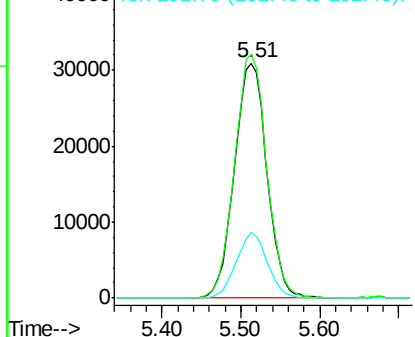


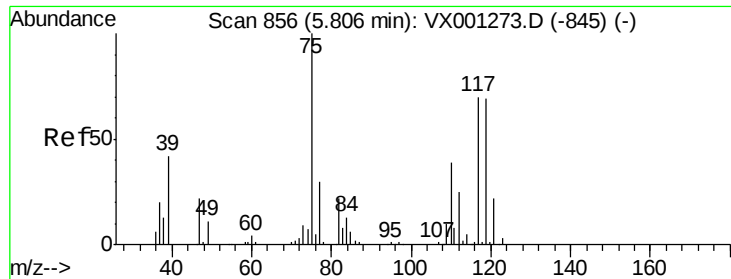
#35  
 Dibromofluoromethane  
 Concen: 42.12 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. 0.00 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

Tgt Ion:113 Resp: 88765  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.2 121.8  
 192 26.8 20.7 31.1



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

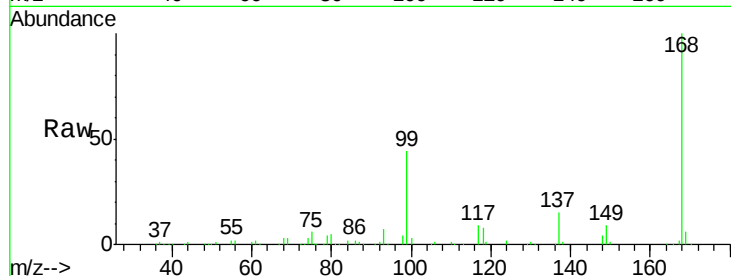




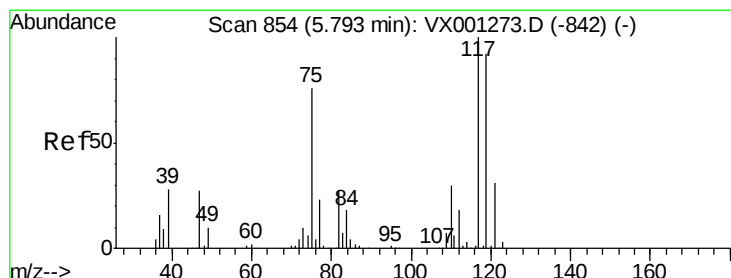
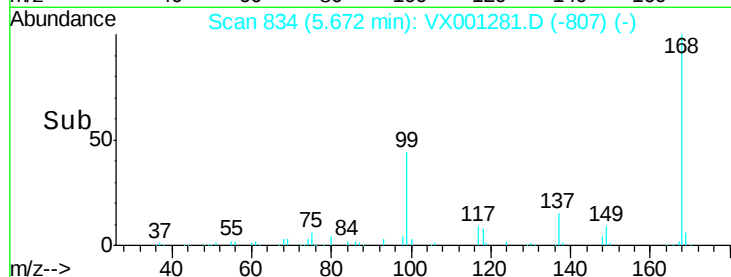
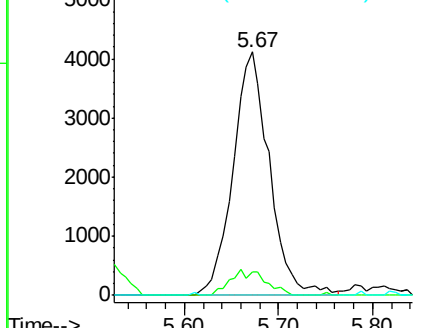
#36  
 1,1-Dichloropropene  
 Concen: 3.93 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 CONCRETE-1

Tgt Ion: 75 Resp: 11094  
 Ion Ratio Lower Upper  
 75 100  
 110 5.0 18.9 56.9#  
 77 0.0 24.2 36.2#

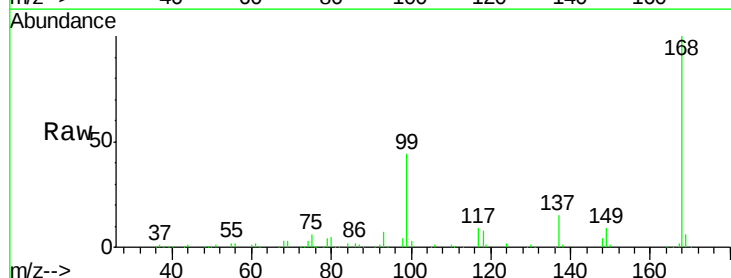


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

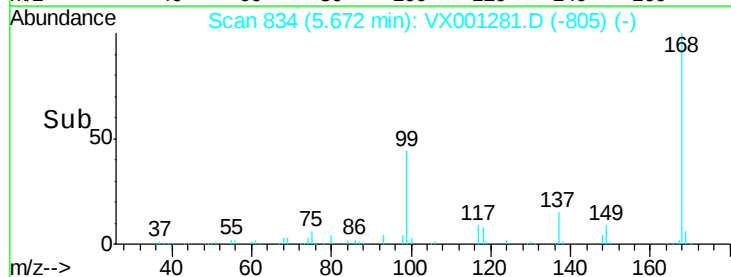
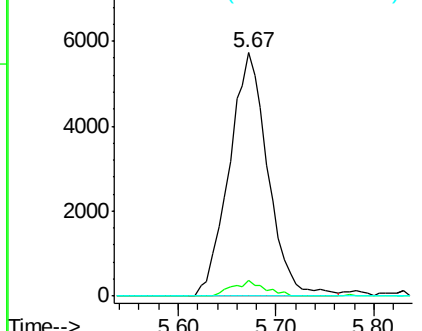


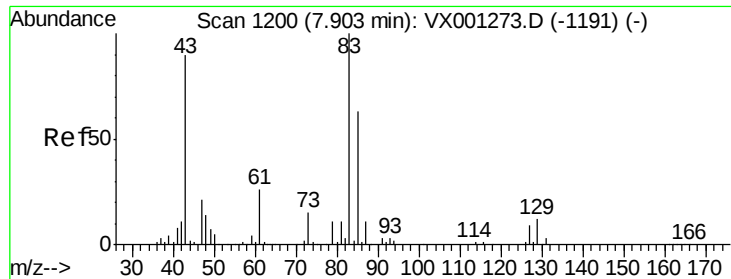
#38  
 Carbon Tetrachloride  
 Concen: 5.32 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

Tgt Ion: 117 Resp: 15725  
 Ion Ratio Lower Upper  
 117 100  
 119 6.3 73.4 110.2#  
 121 0.0 25.0 37.4#



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





#47

Bromodichloromethane

Concen: 0.22 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VX001281.D

Acq: 01 May 2018 16:15

Instrument :

MSVOA\_X

ClientSampleId :

CONCRETE-1

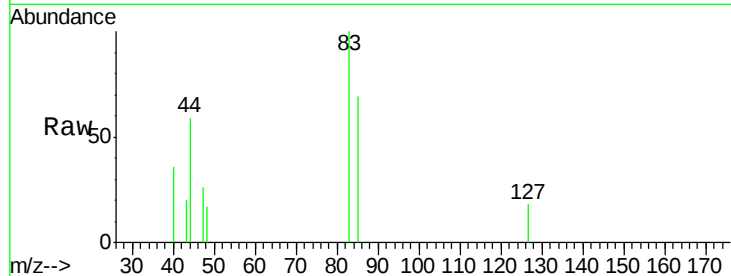
Tgt Ion: 83 Resp: 575

Ion Ratio Lower Upper

83 100

85 68.6 50.3 75.5

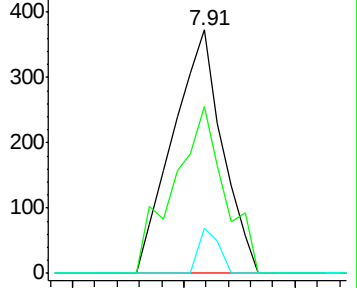
127 18.5 7.4 11.2#



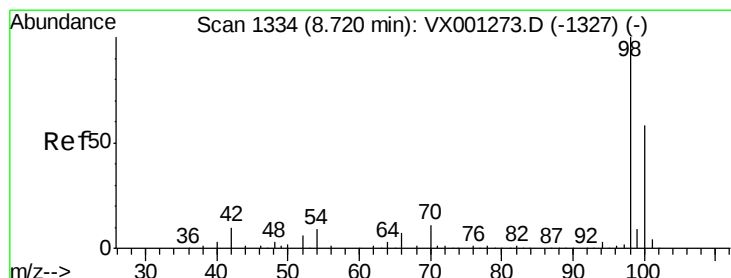
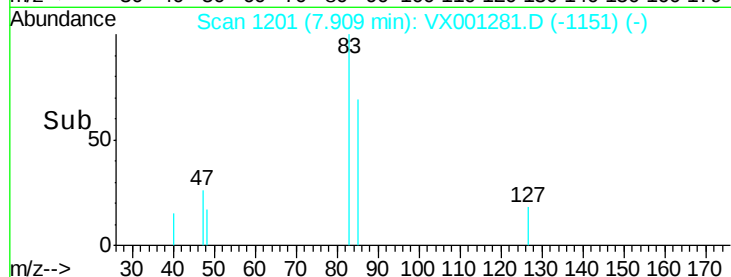
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



Time-->



#50

Toluene-d8

Concen: 45.58 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001281.D

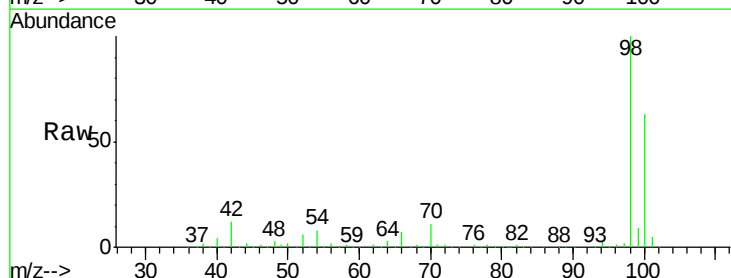
Acq: 01 May 2018 16:15

Tgt Ion: 98 Resp: 343199

Ion Ratio Lower Upper

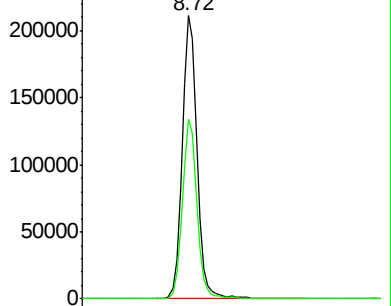
98 100

100 63.0 51.0 76.4

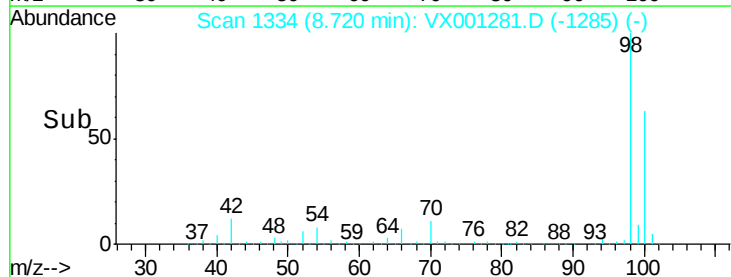


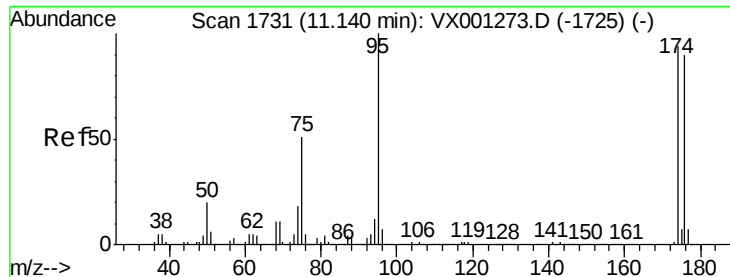
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->

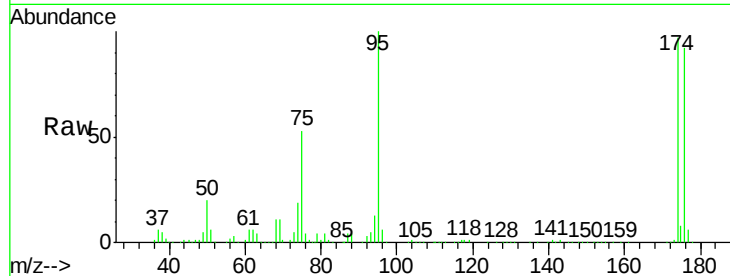




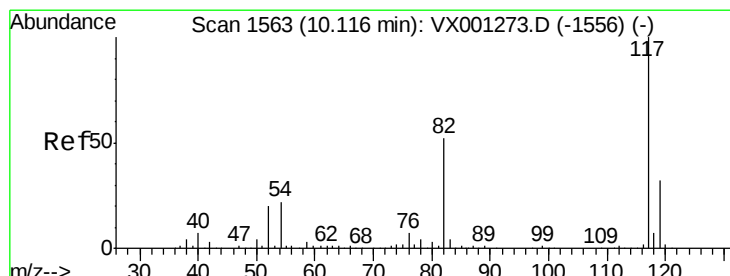
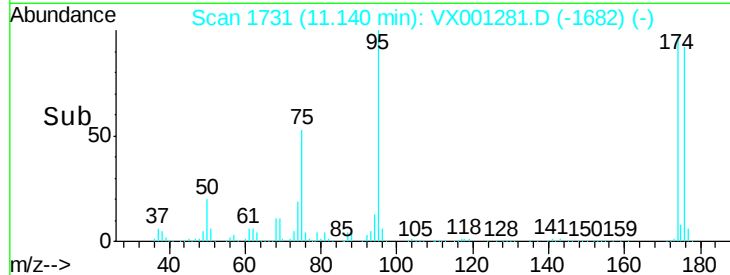
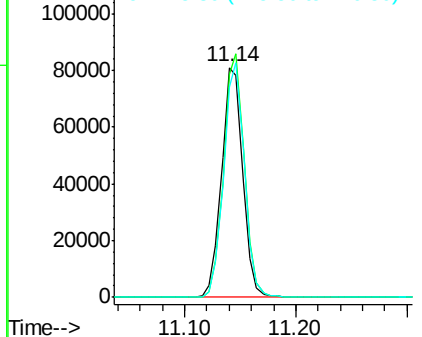
#62  
4-Bromofluorobenzene  
Concen: 35.43 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

Instrument :  
MSVOA\_X  
ClientSampleId :  
CONCRETE-1

Tgt Ion: 95 Resp: 106678  
Ion Ratio Lower Upper  
95 100  
174 103.3 0.0 201.8  
176 99.6 0.0 197.2

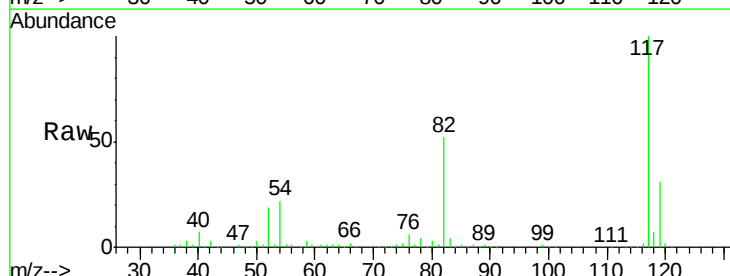


Abundance Ion 94.90 (94.60 to 95.60): VX  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

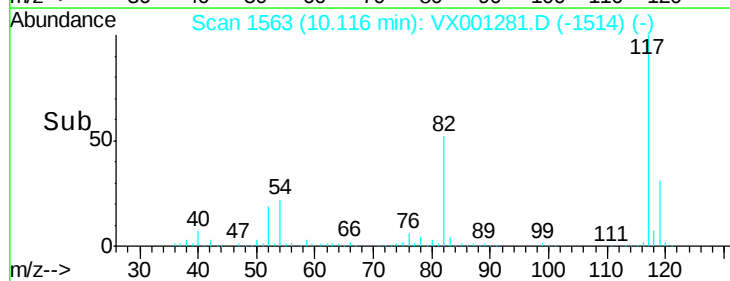
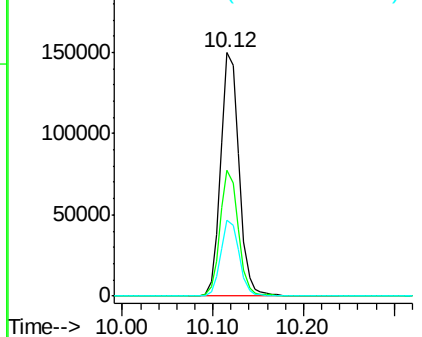


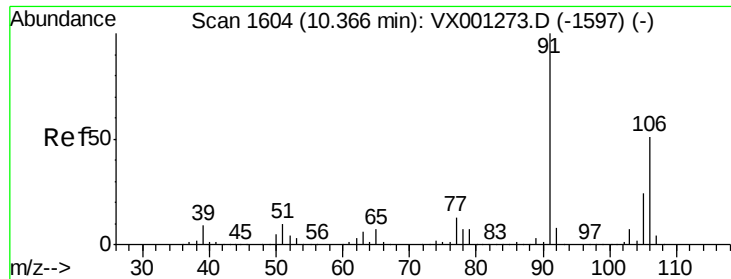
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

Tgt Ion: 117 Resp: 213003  
Ion Ratio Lower Upper  
117 100  
82 51.8 41.4 62.0  
119 31.2 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX  
Ion 118.90 (118.60 to 119.60): V

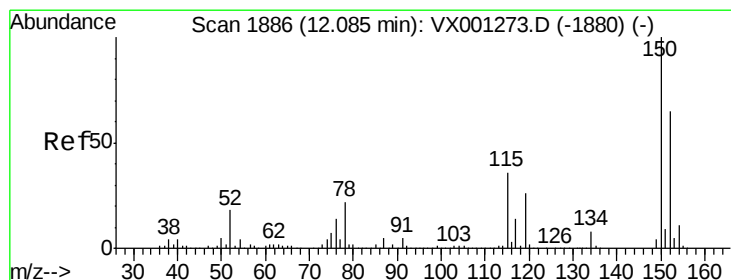
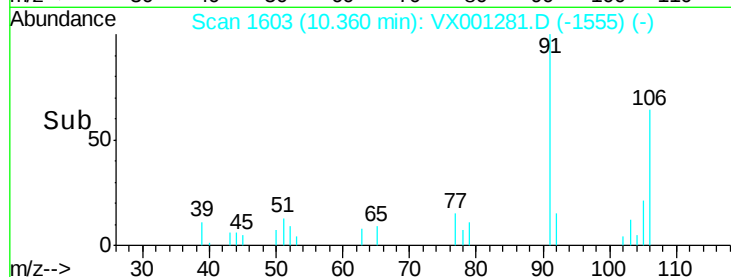
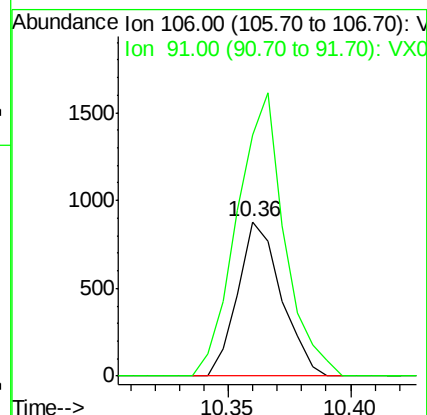
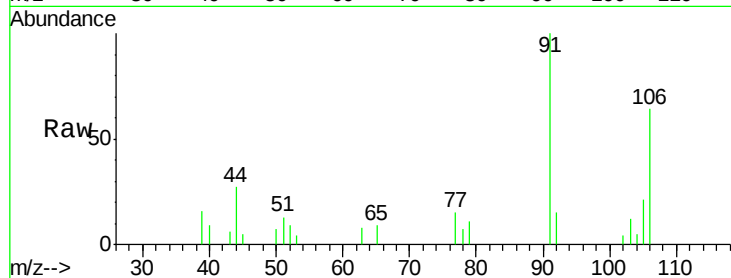




#68  
m/p-Xylenes  
Concen: 0.29 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. -0.01 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

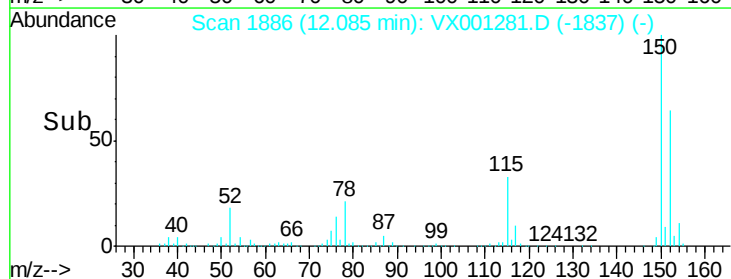
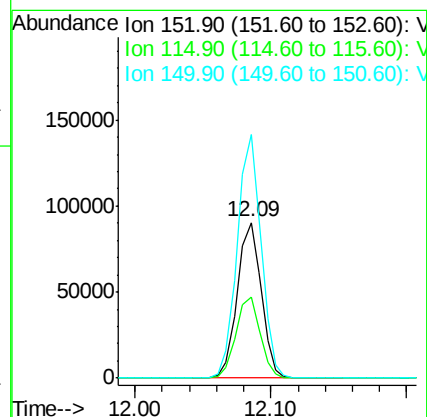
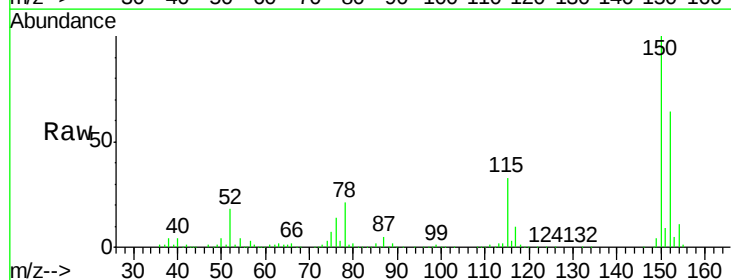
Instrument :  
MSVOA\_X  
ClientSampleId :  
CONCRETE-1

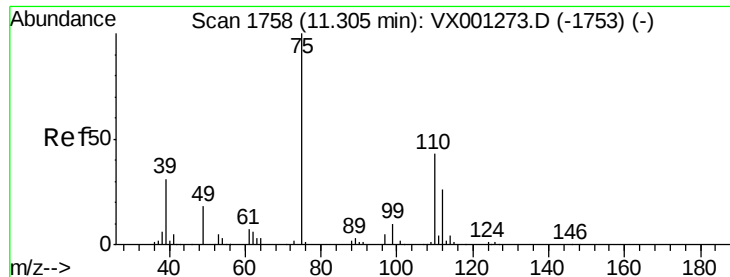
Tgt Ion:106 Resp: 1087  
Ion Ratio Lower Upper  
106 100  
91 200.7 159.4 239.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

Tgt Ion:152 Resp: 111040  
Ion Ratio Lower Upper  
152 100  
115 52.8 38.6 115.7  
150 155.6 0.0 349.2

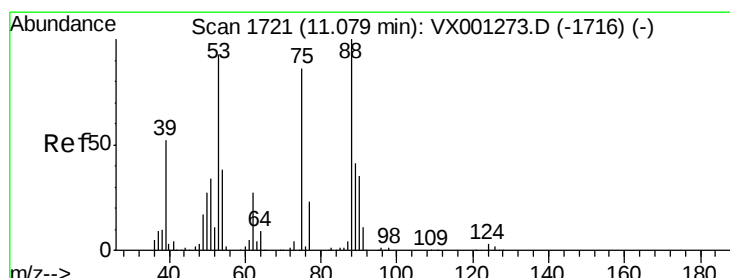
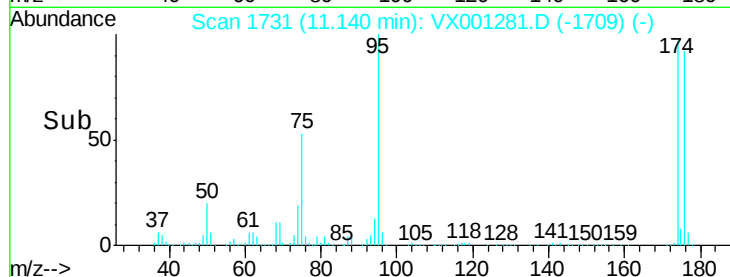
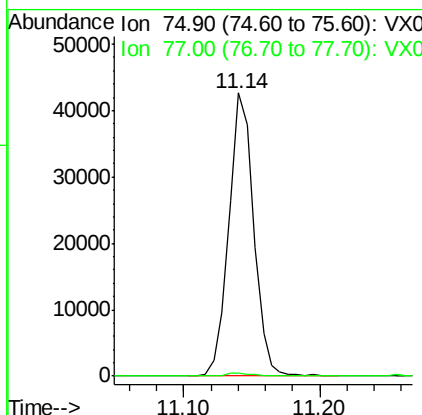
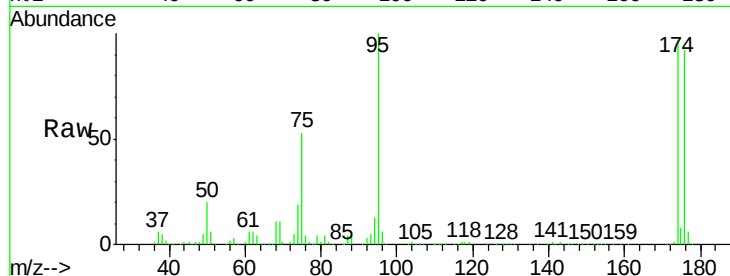




#76  
 1,2,3-Trichloropropane  
 Concen: 26.43 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

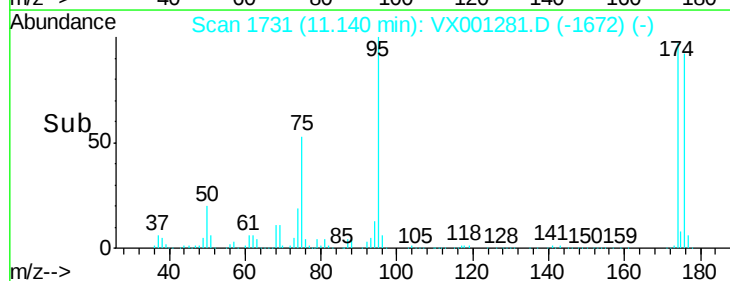
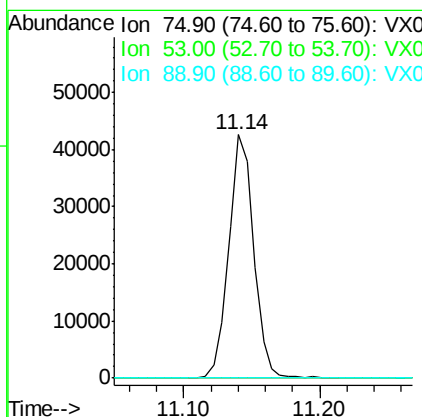
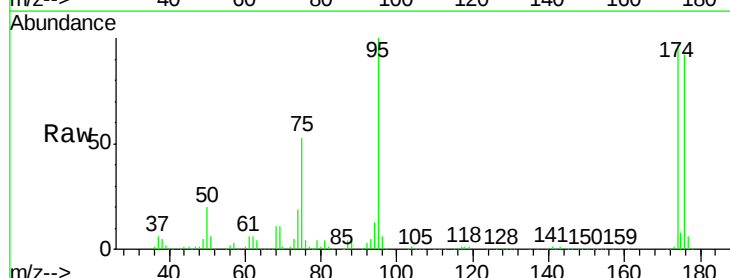
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CONCRETE-1

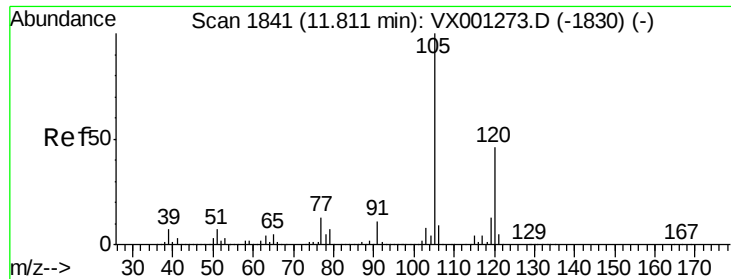
Tgt Ion: 75 Resp: 54273  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 18.9 56.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 82.91 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

Tgt Ion: 75 Resp: 54273  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 87.1 130.7#  
 89 0.0 38.9 58.3#

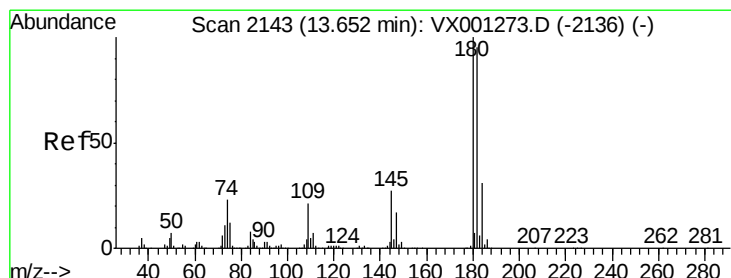
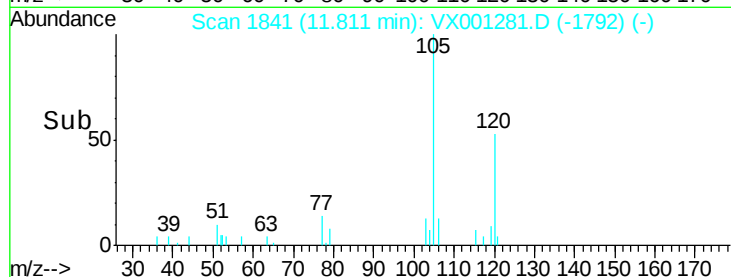
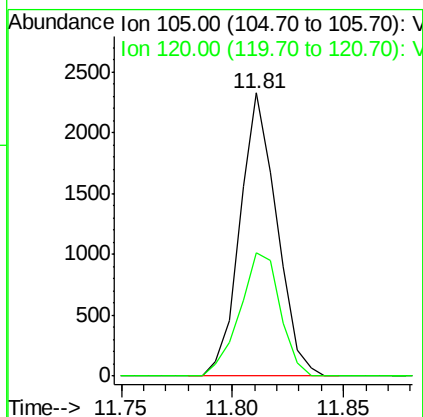
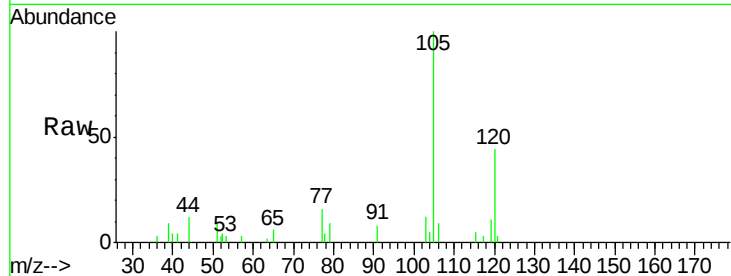




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.42 ug/l  
 RT: 11.81 min Scan# 1841  
 Delta R.T. 0.00 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

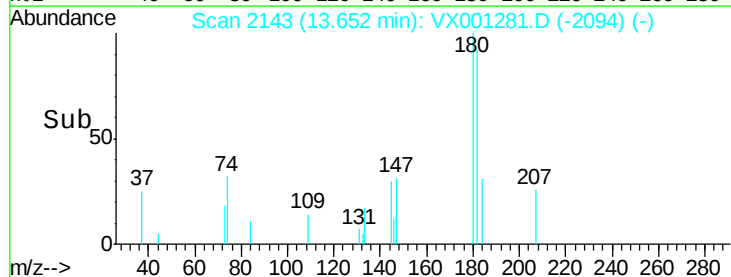
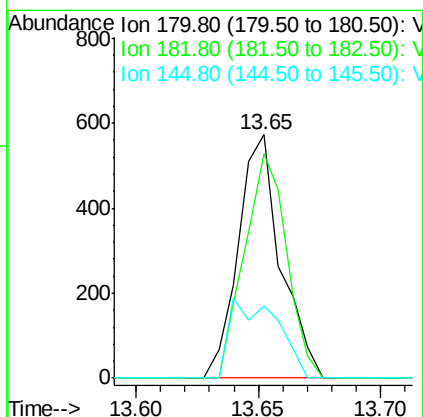
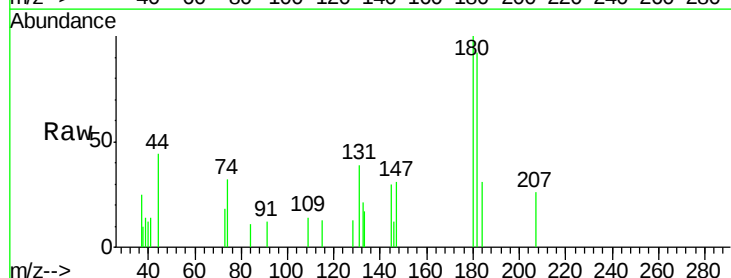
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 CONCRETE-1

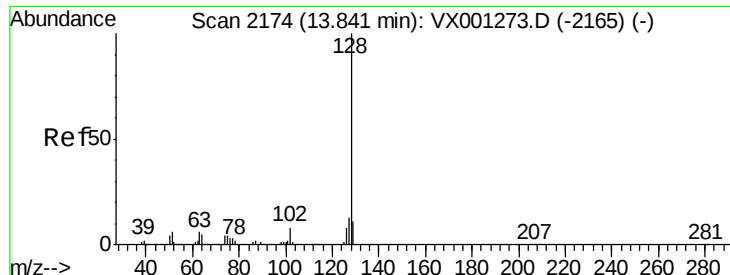
Tgt Ion:105 Resp: 2682  
 Ion Ratio Lower Upper  
 105 100  
 120 47.9 22.7 68.1



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.22 ug/l  
 RT: 13.65 min Scan# 2143  
 Delta R.T. 0.00 min  
 Lab File: VX001281.D  
 Acq: 01 May 2018 16:15

Tgt Ion:180 Resp: 692  
 Ion Ratio Lower Upper  
 180 100  
 182 91.8 47.3 141.9  
 145 36.8 13.5 40.4

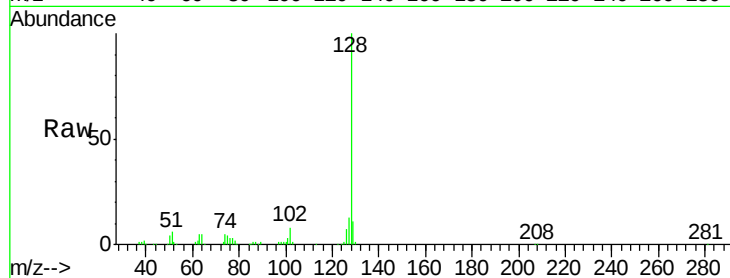




#95  
Naphthalene  
Concen: 8.07 ug/l  
RT: 13.84 min Scan# 2174  
Delta R.T. 0.00 min  
Lab File: VX001281.D  
Acq: 01 May 2018 16:15

Instrument :  
MSVOA\_X  
ClientSampleId :  
CONCRETE-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.5  | 10.5  | 15.7  |
| 129     | 10.8  | 8.7   | 13.1  |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

