

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050718\  
 Data File : VX001497.D  
 Acq On : 08 May 2018 05:59  
 Operator : JC/MD  
 Sample : J2738-02 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CB-TCLP-VAR2-0518

Quant Time: May 08 08:09:39 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 265221   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 364841   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 326575   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 186295   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 179167   | 47.00 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.00% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 138819   | 42.78 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.56% |      |
| 50) Toluene-d8              | 8.72   | 98  | 503805   | 42.53 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.06% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 169834   | 37.35 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 74.70% |      |

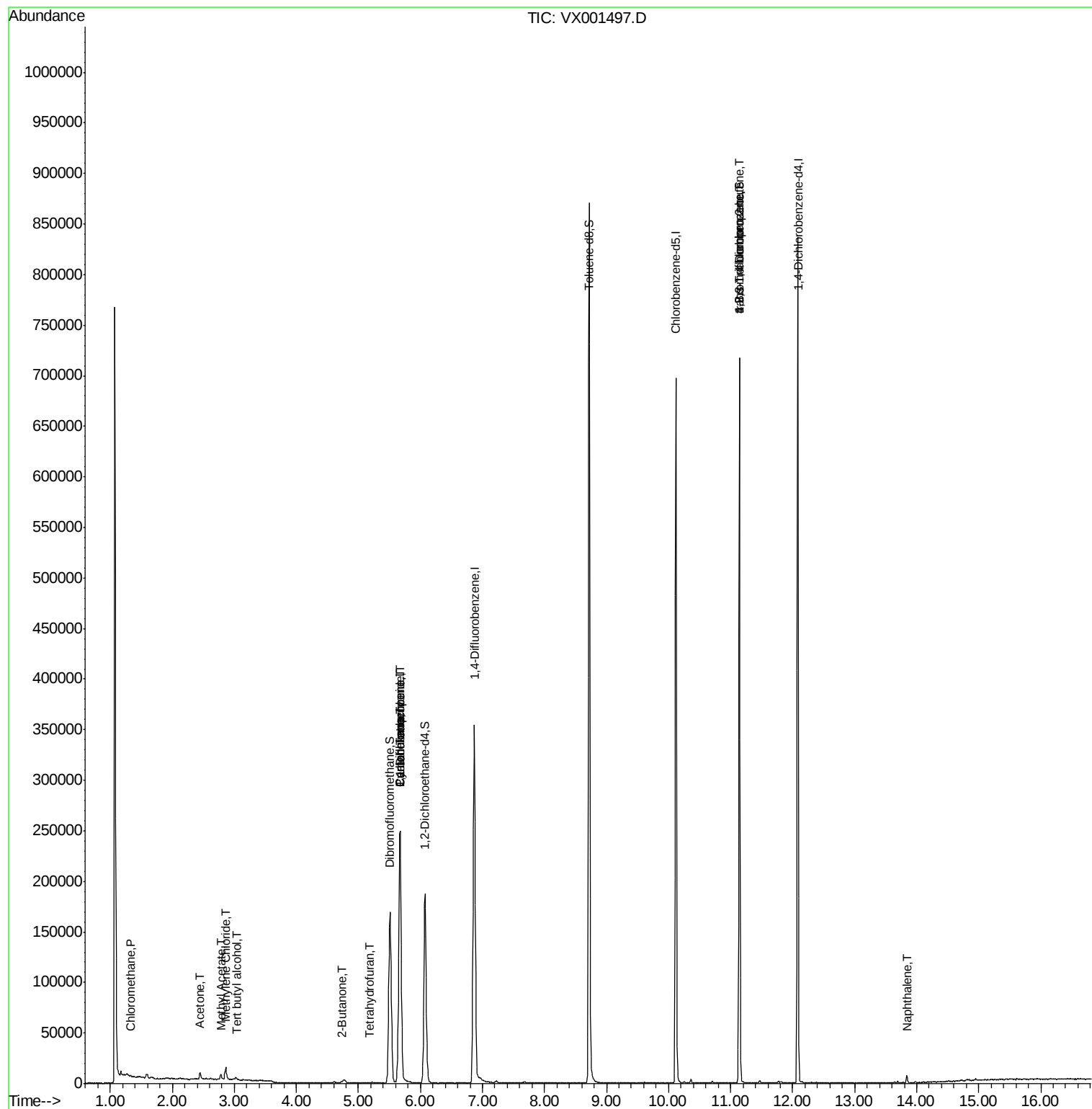
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1089     | 0.31  | ug/l   | 97     |
| 5) Bromomethane                | 1.67  | 94   | 600      | Below | Cal    | 95     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1484     | 1.85  | ug/l # | 72     |
| 13) Acrolein                   | 2.31  | 56   | 48       | Below | Cal #  | 1      |
| 16) Acetone                    | 2.45  | 43   | 6852     | 3.96  | ug/l   | 94     |
| 18) Methyl Acetate             | 2.78  | 43   | 5971     | 1.31  | ug/l   | 96     |
| 20) Methylene Chloride         | 2.86  | 84   | 5718     | 1.67  | ug/l   | 89     |
| 25) 2-Butanone                 | 4.73  | 43   | 1426     | 0.57  | ug/l # | 81     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 674      | 0.42  | ug/l # | 70     |
| 31) Cyclohexane                | 5.67  | 56   | 4840     | 0.99  | ug/l # | 31     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16588    | 3.57  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 23230    | 4.69  | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 85405    | 22.60 | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 85405    | 70.18 | ug/l # | 7      |
| 95) Naphthalene                | 13.84 | 128  | 4315     | 0.31  | ug/l # | 97     |

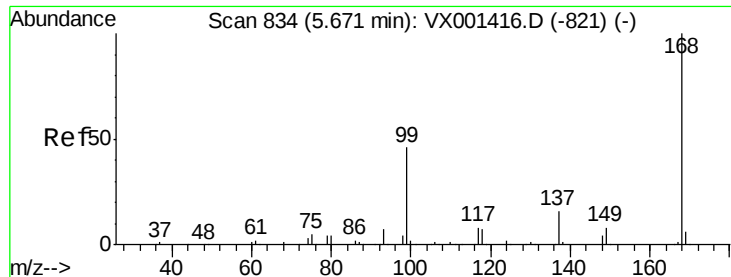
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050718\  
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Instrument :  
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ClientSampleId :  
CB-TCLP-VAR2-0518

Quant Time: May 08 08:09:39 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
Quant Title : SW846 8260  
QLast Update : Sun May 06 07:59:25 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: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

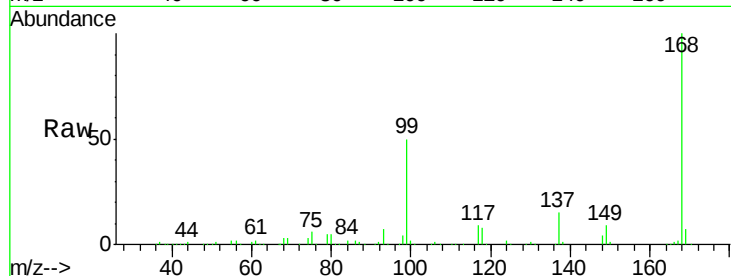
CB-TCLP-VAR2-0518

Tgt Ion:168 Resp: 265221

Ion Ratio Lower Upper

168 100

99 50.1 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

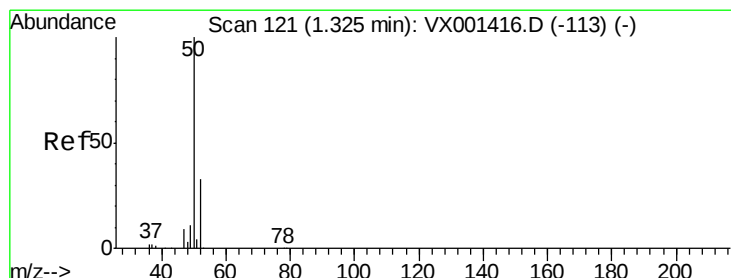
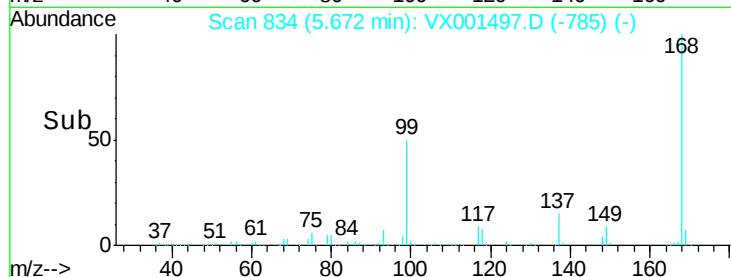
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001497.D

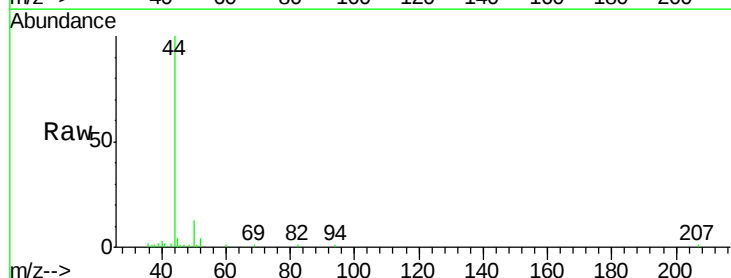
Acq: 08 May 2018 05:59

Tgt Ion: 50 Resp: 1089

Ion Ratio Lower Upper

50 100

52 30.9 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

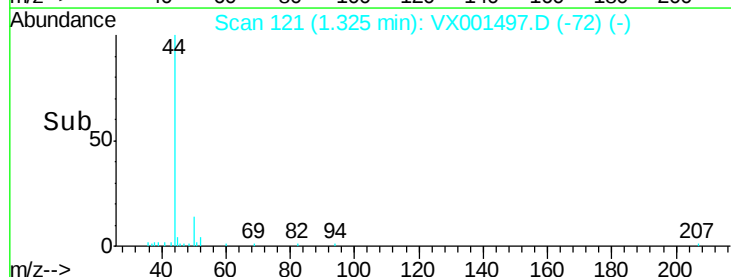
600

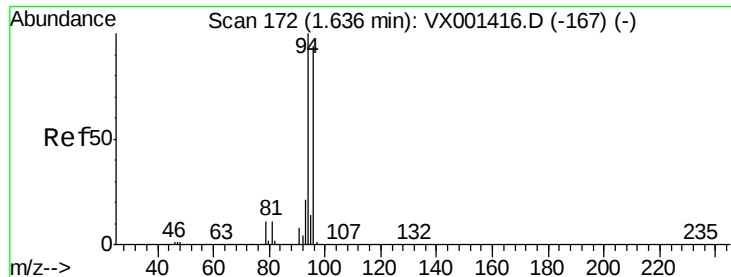
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

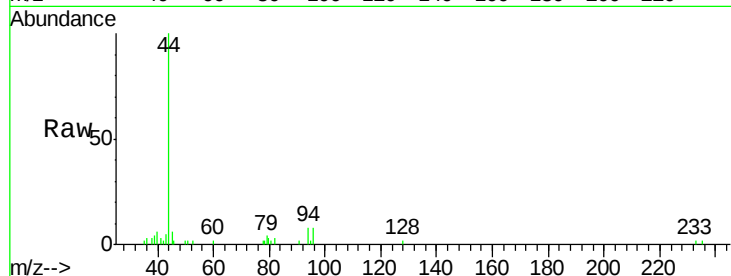
CB-TCLP-VAR2-0518

Tgt Ion: 94 Resp: 600

Ion Ratio Lower Upper

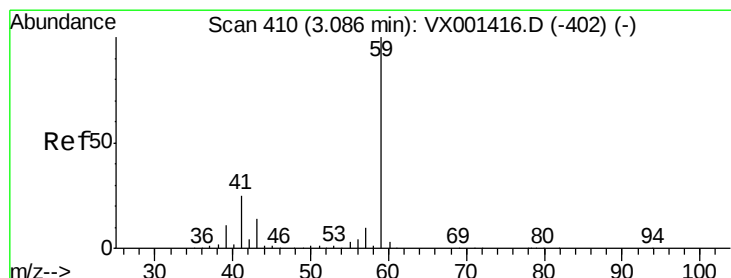
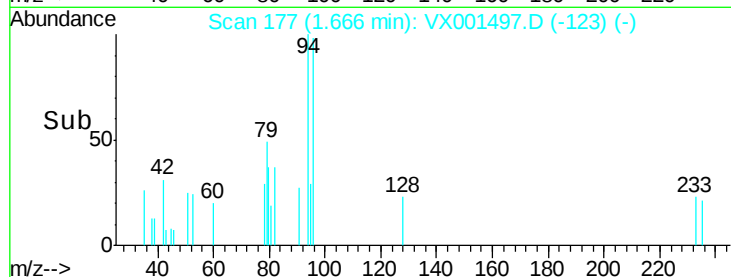
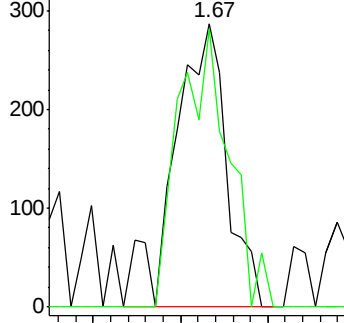
94 100

96 98.3 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 1.85 ug/l

RT: 3.03 min Scan# 401

Delta R.T. -0.05 min

Lab File: VX001497.D

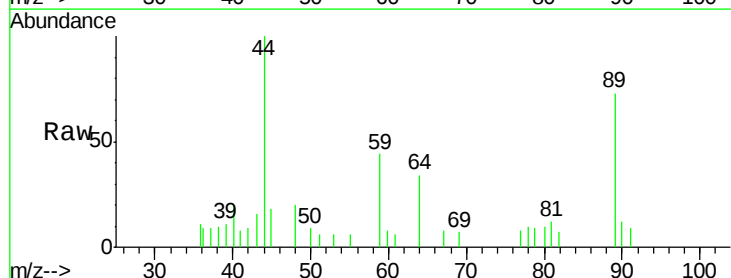
Acq: 08 May 2018 05:59

Tgt Ion: 59 Resp: 1484

Ion Ratio Lower Upper

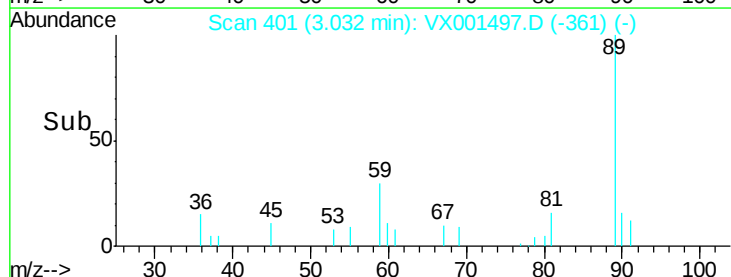
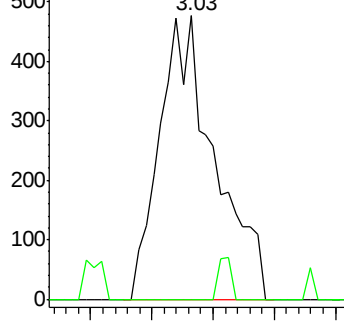
59 100

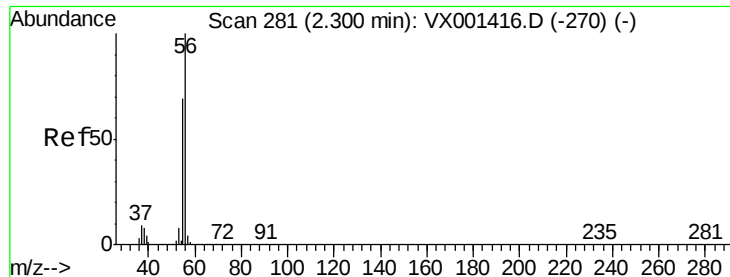
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

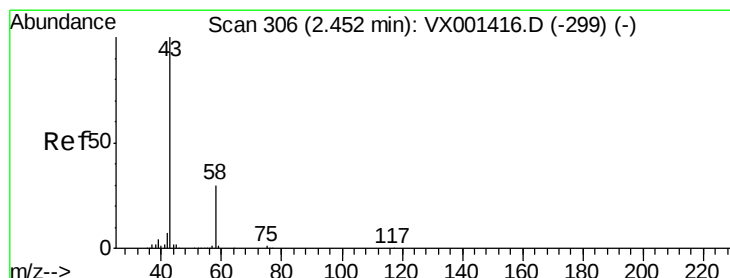
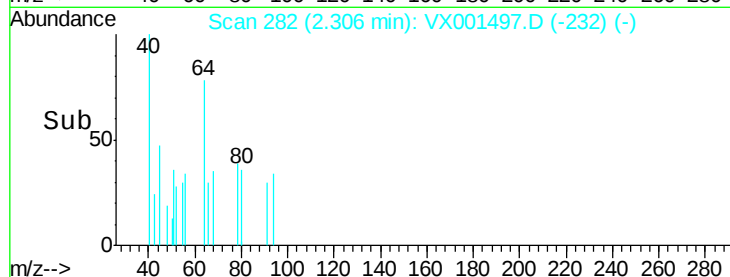
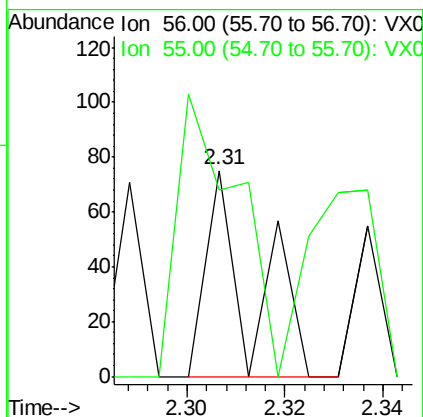
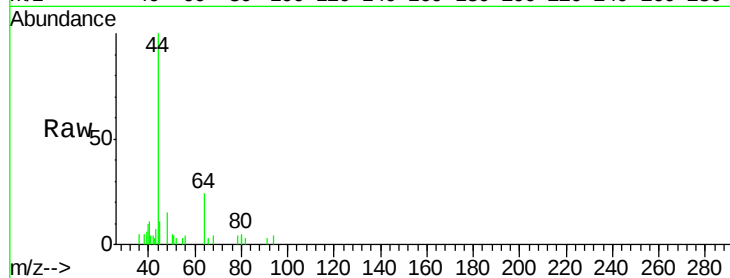




#13  
Acrolein  
Concen: Below Cal  
RT: 2.31 min Scan# 282  
Delta R.T. 0.01 min  
Lab File: VX001497.D  
Acq: 08 May 2018 05:59

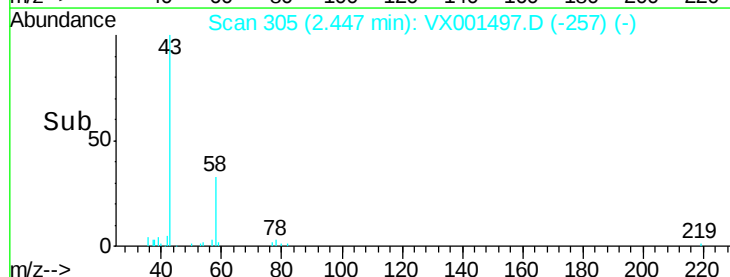
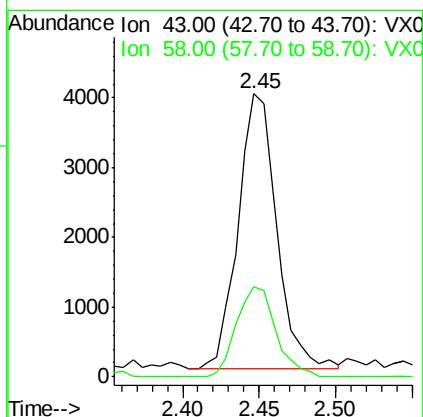
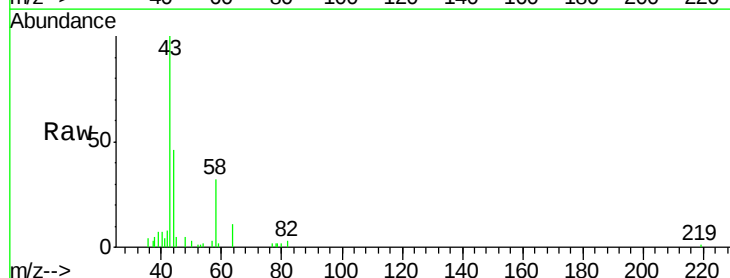
Instrument :  
MSVOA\_X  
ClientSampleId :  
CB-TCLP-VAR2-0518

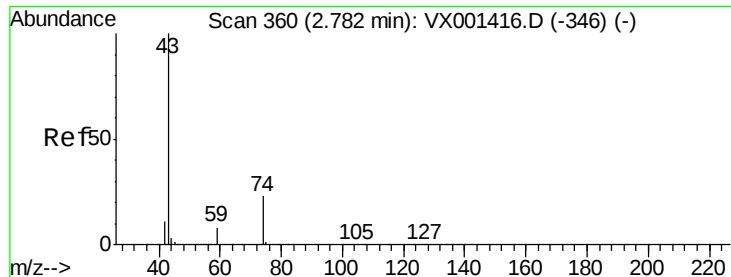
Tgt Ion: 56 Resp: 48  
Ion Ratio Lower Upper  
56 100  
55 185.4 54.5 81.7#



#16  
Acetone  
Concen: 3.96 ug/l  
RT: 2.45 min Scan# 305  
Delta R.T. -0.01 min  
Lab File: VX001497.D  
Acq: 08 May 2018 05:59

Tgt Ion: 43 Resp: 6852  
Ion Ratio Lower Upper  
43 100  
58 33.0 23.8 35.8

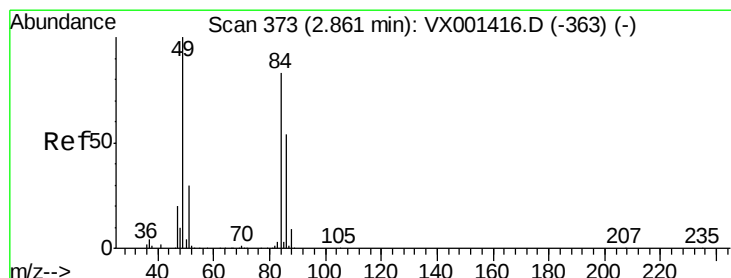
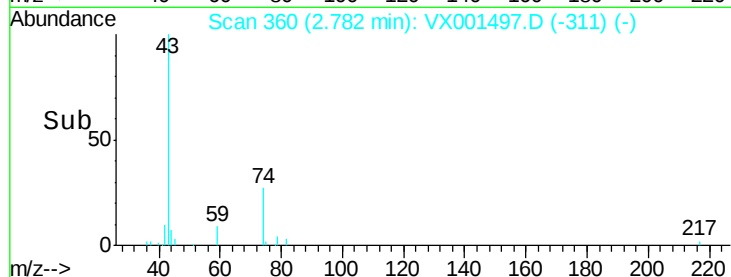
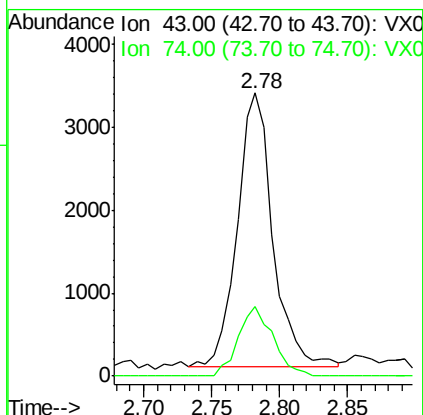
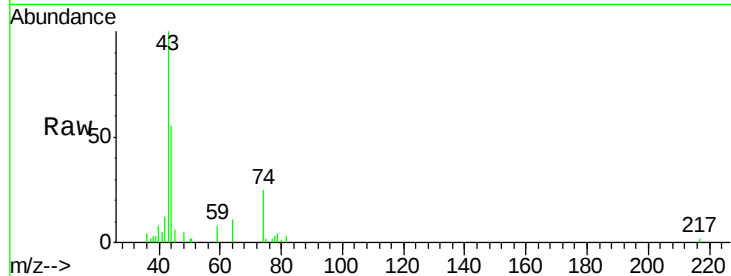




#18  
Methyl Acetate  
Concen: 1.31 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX001497.D  
Acq: 08 May 2018 05:59

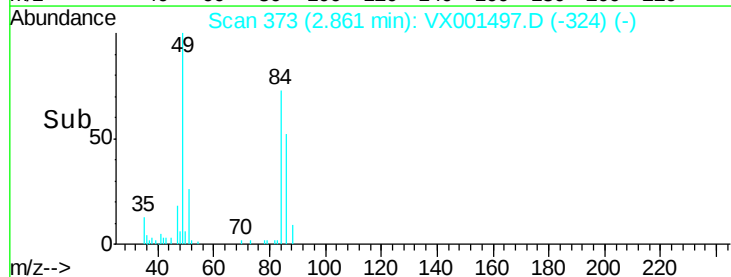
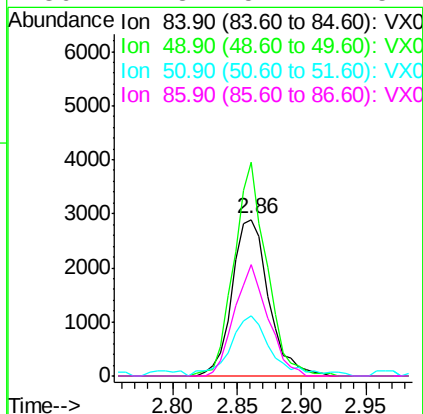
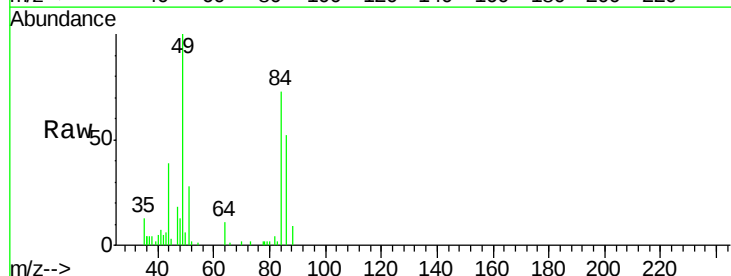
Instrument :  
MSVOA\_X  
ClientSampleId :  
CB-TCLP-VAR2-0518

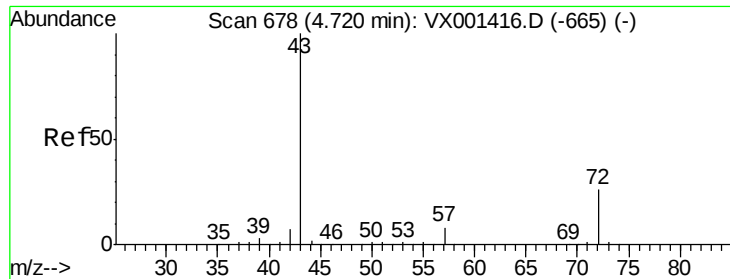
Tgt Ion: 43 Resp: 5971  
Ion Ratio Lower Upper  
43 100  
74 25.1 18.6 27.8



#20  
Methylene Chloride  
Concen: 1.67 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX001497.D  
Acq: 08 May 2018 05:59

Tgt Ion: 84 Resp: 5718  
Ion Ratio Lower Upper  
84 100  
49 136.7 96.6 144.8  
51 38.1 29.0 43.4  
86 71.3 52.2 78.4





#25

2-Butanone

Concen: 0.57 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

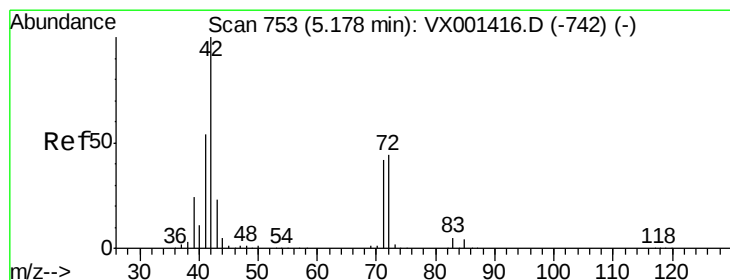
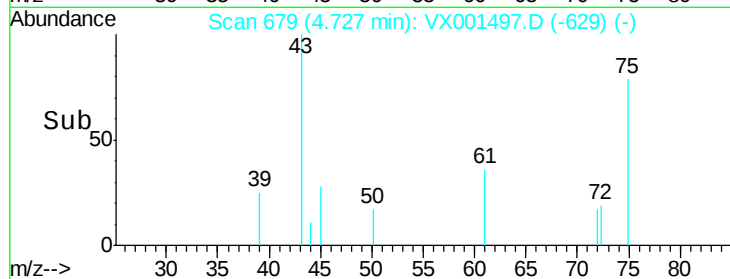
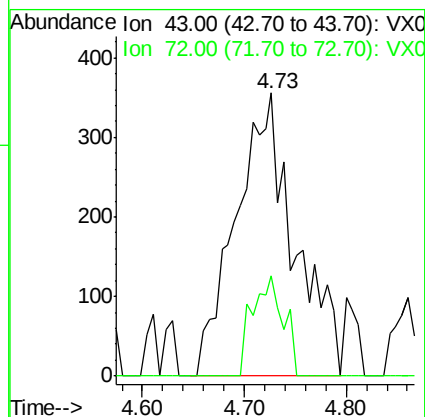
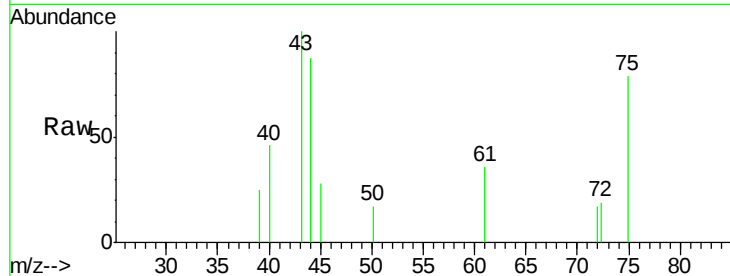
CB-TCLP-VAR2-0518

Tgt Ion: 43 Resp: 1426

Ion Ratio Lower Upper

43 100

72 35.4 20.7 31.1#



#29

Tetrahydrofuran

Concen: 0.42 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

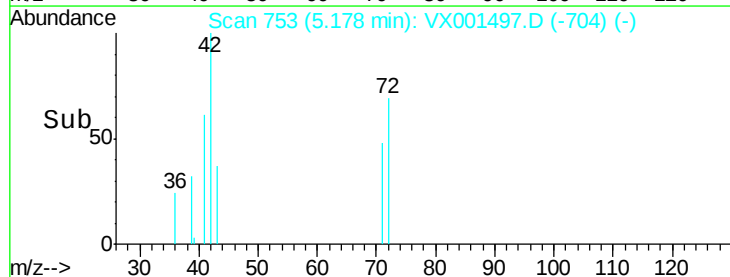
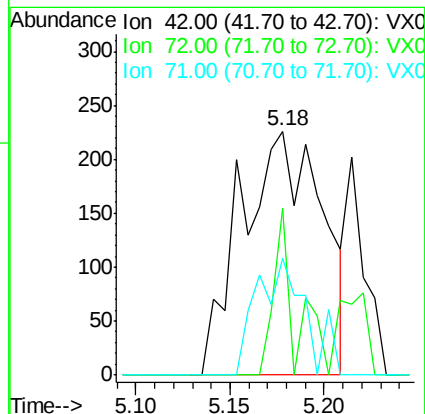
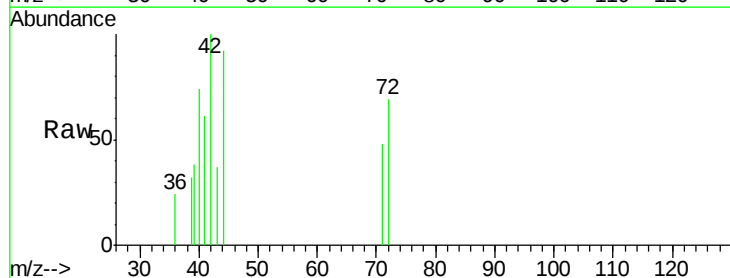
Tgt Ion: 42 Resp: 674

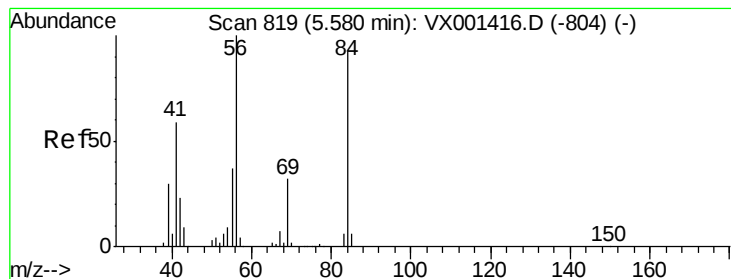
Ion Ratio Lower Upper

42 100

72 18.4 35.4 53.2#

71 28.9 33.0 49.4#





#31

Cyclohexane

Concen: 0.99 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

CB-TCLP-VAR2-0518

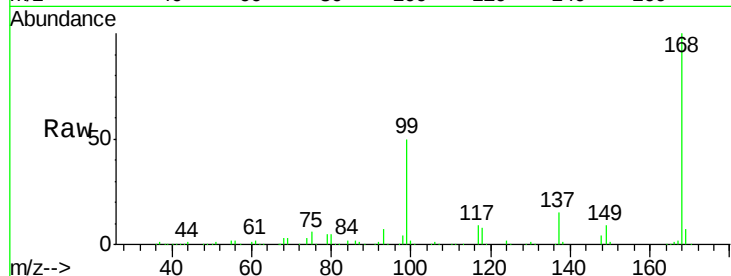
Tgt Ion: 56 Resp: 4840

Ion Ratio Lower Upper

56 100

69 136.9 25.4 38.0#

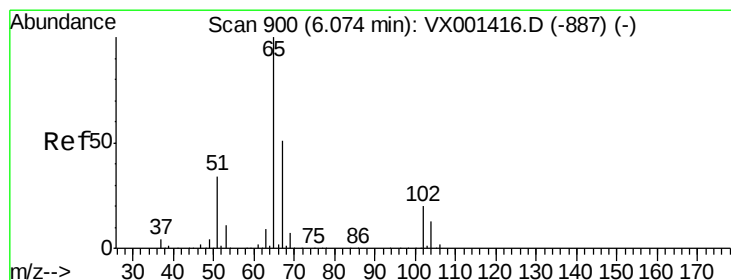
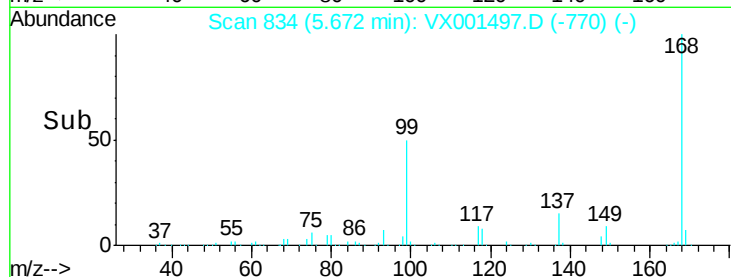
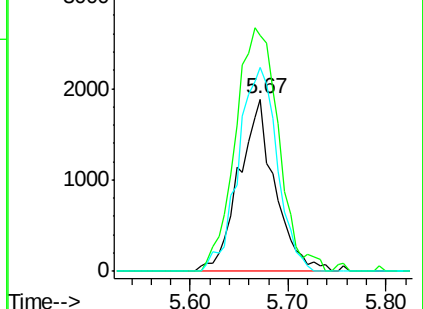
84 118.1 73.8 110.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.00 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001497.D

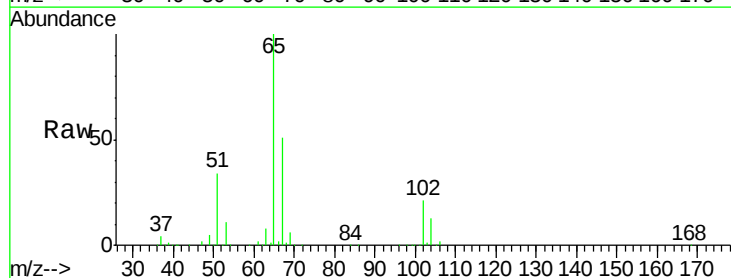
Acq: 08 May 2018 05:59

Tgt Ion: 65 Resp: 179167

Ion Ratio Lower Upper

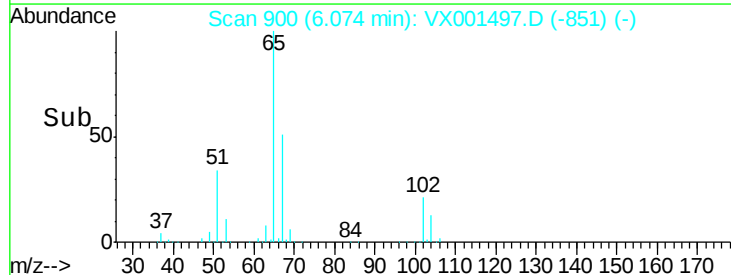
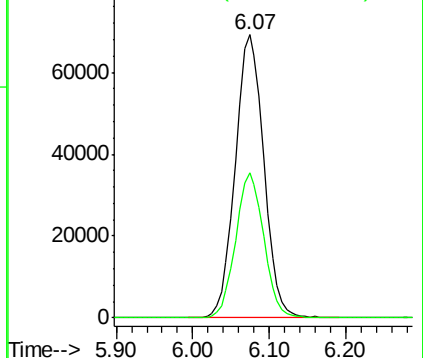
65 100

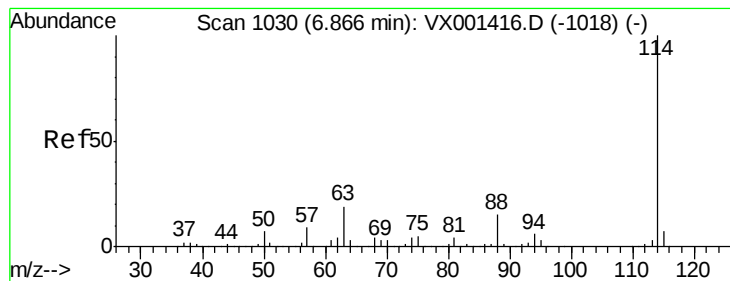
67 50.5 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

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ClientSampleId :

CB-TCLP-VAR2-0518

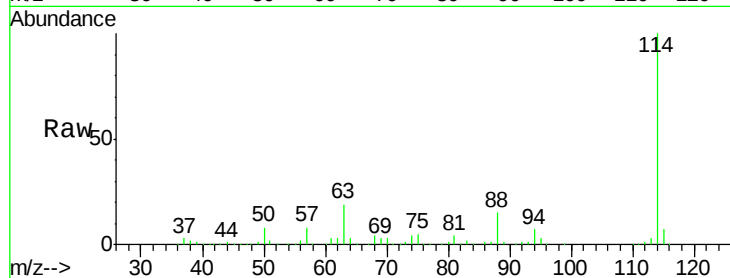
Tgt Ion:114 Resp: 364841

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

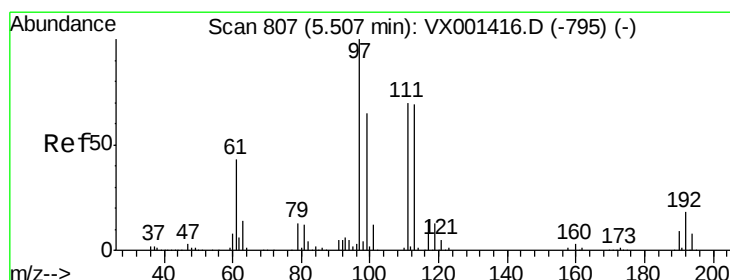
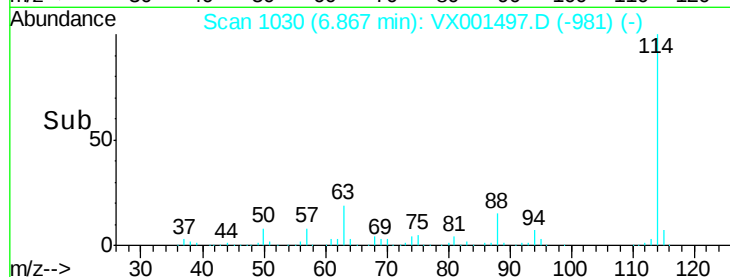
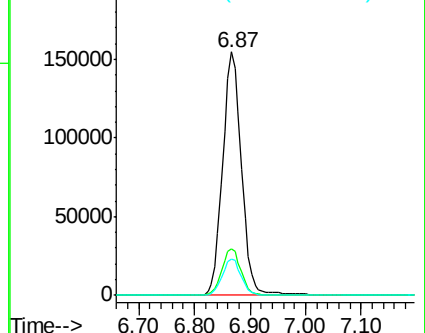
88 15.1 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 42.78 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

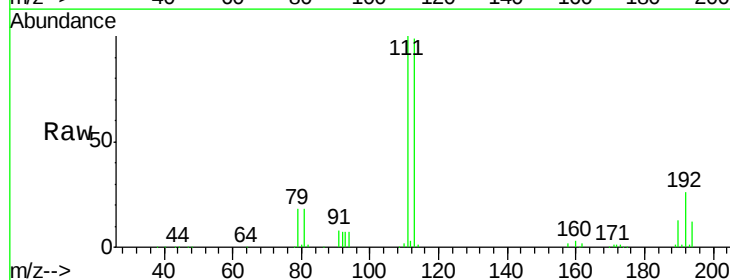
Tgt Ion:113 Resp: 138819

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.2

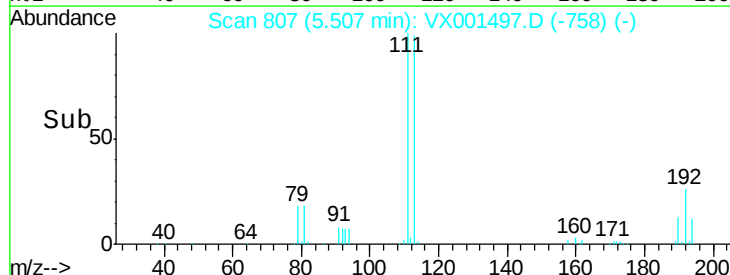
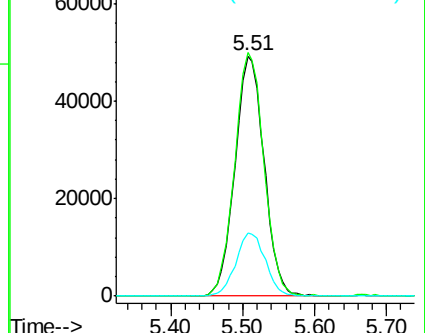
192 26.5 21.4 32.0

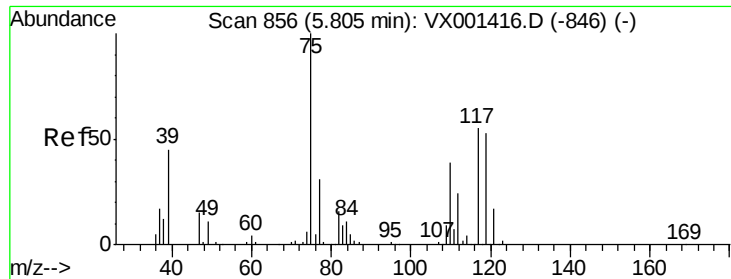


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

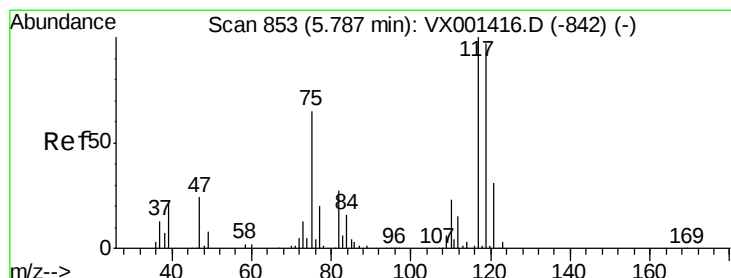
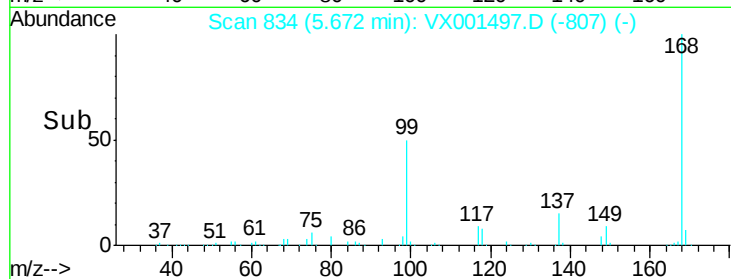
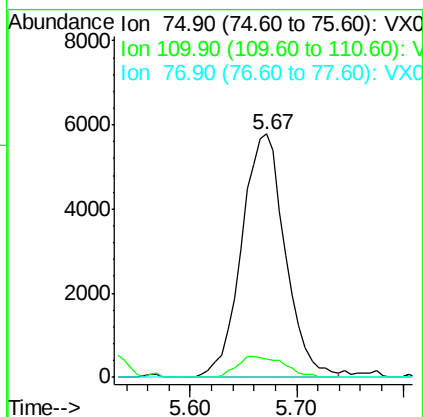
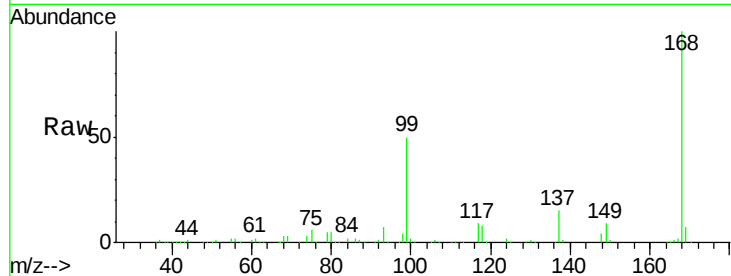




#36  
 1,1-Dichloropropene  
 Concen: 3.57 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001497.D  
 Acq: 08 May 2018 05:59

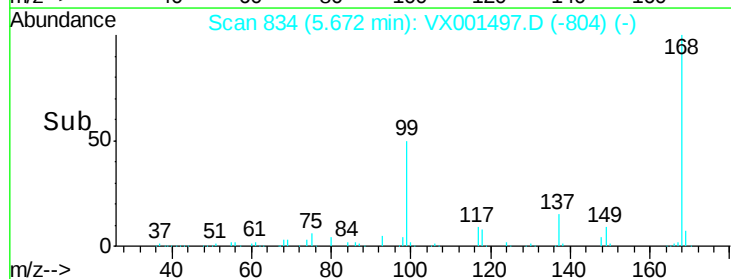
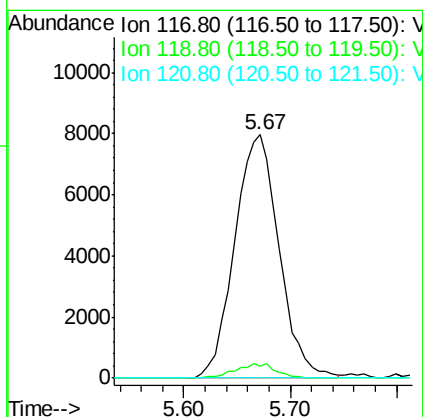
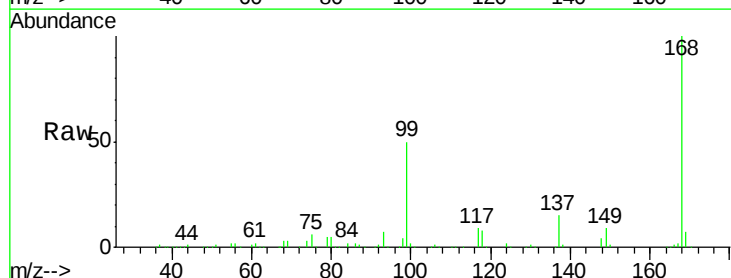
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CB-TCLP-VAR2-0518

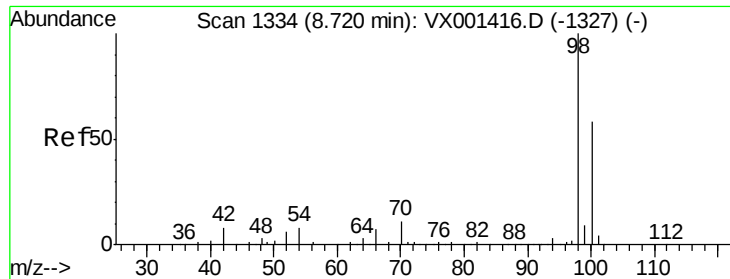
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 18.9  | 56.7# |
| 77      | 0.0   | 24.9  | 37.3# |



#38  
 Carbon Tetrachloride  
 Concen: 4.69 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX001497.D  
 Acq: 08 May 2018 05:59

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.8   | 77.0  | 115.6# |
| 121     | 0.0   | 25.1  | 37.7#  |





#50

Toluene-d8

Concen: 42.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

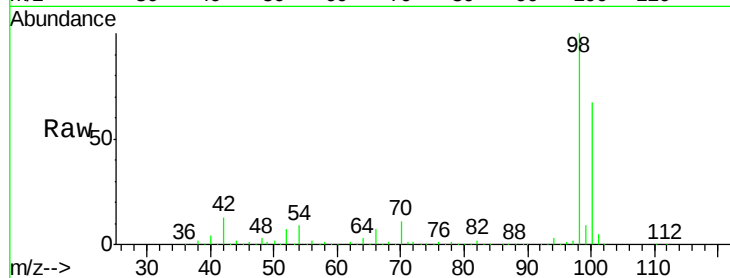
CB-TCLP-VAR2-0518

Tgt Ion: 98 Resp: 503805

Ion Ratio Lower Upper

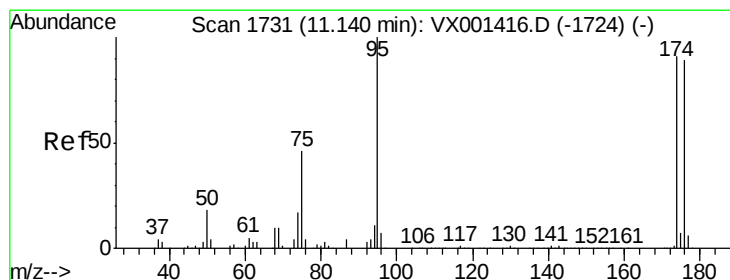
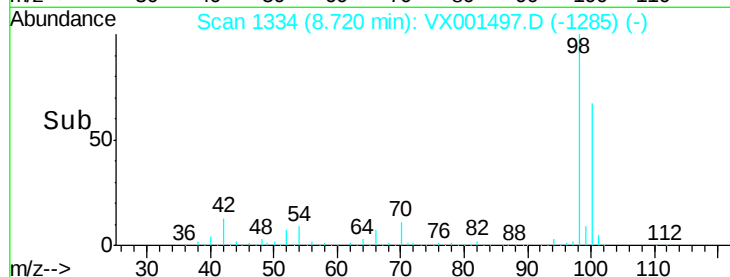
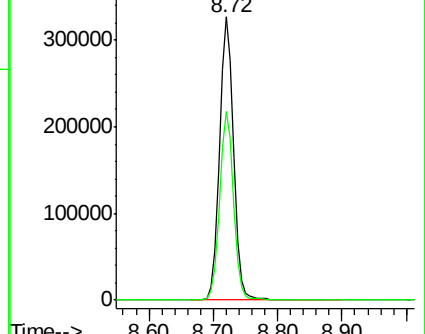
98 100

100 66.1 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 37.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

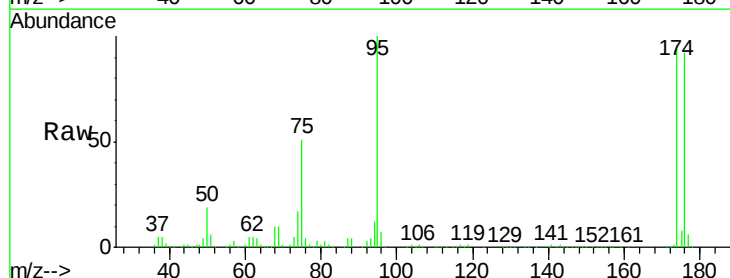
Tgt Ion: 95 Resp: 169834

Ion Ratio Lower Upper

95 100

174 101.5 0.0 202.0

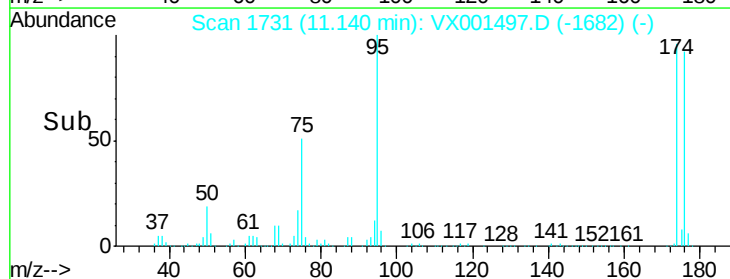
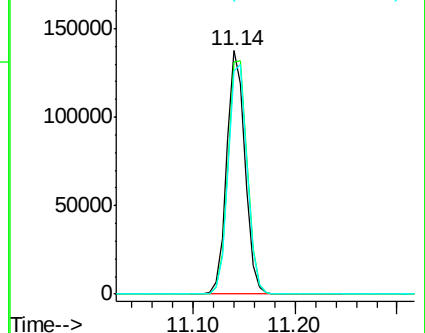
176 98.1 0.0 197.4

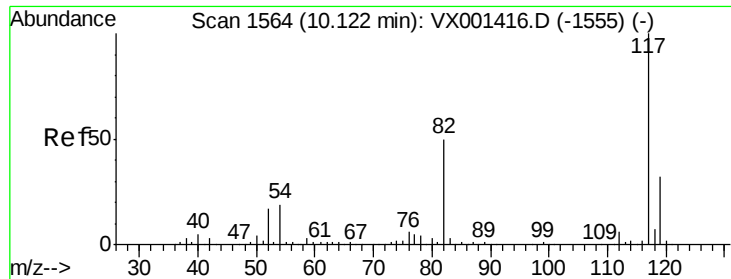


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

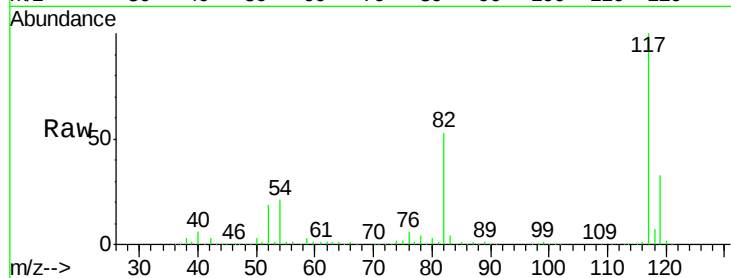




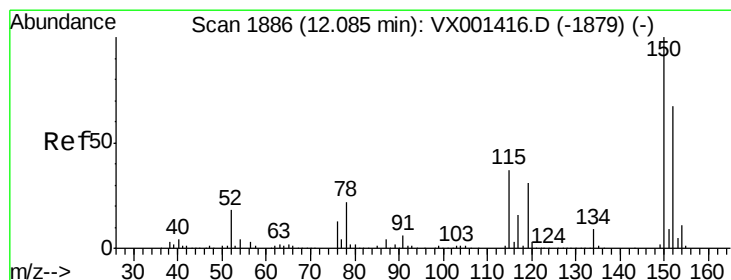
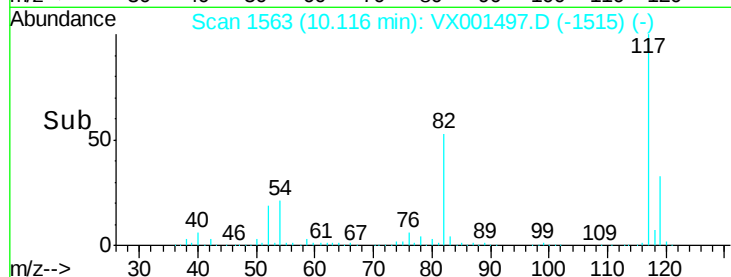
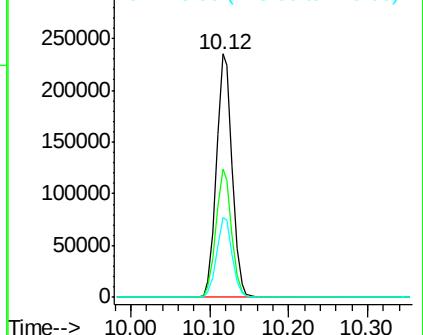
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: VX001497.D  
Acq: 08 May 2018 05:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
CB-TCLP-VAR2-0518

Tgt Ion:117 Resp: 326575  
Ion Ratio Lower Upper  
117 100  
82 52.9 40.0 60.0  
119 32.5 25.8 38.8

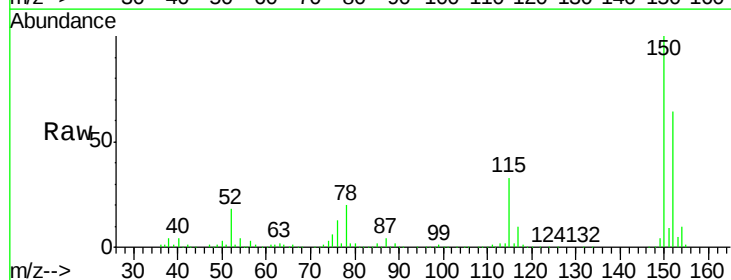


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

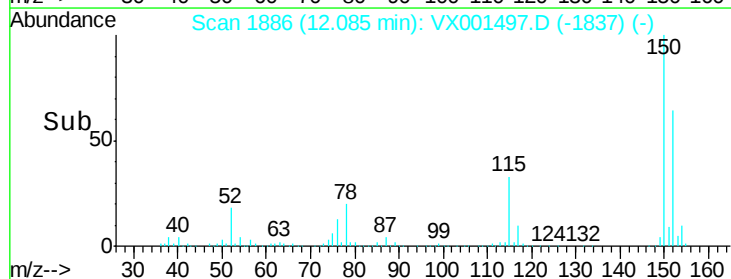
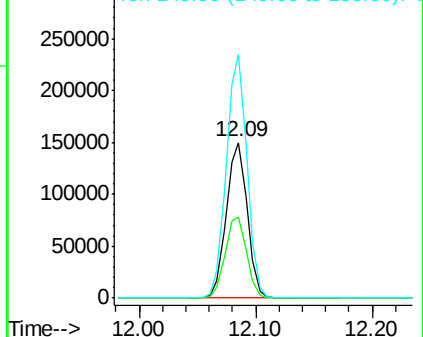


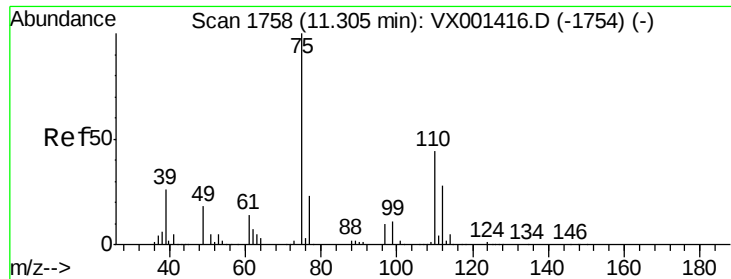
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001497.D  
Acq: 08 May 2018 05:59

Tgt Ion:152 Resp: 186295  
Ion Ratio Lower Upper  
152 100  
115 53.2 37.7 113.1  
150 154.8 0.0 349.4



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





#76

1,2,3-Trichloropropane

Concen: 22.60 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

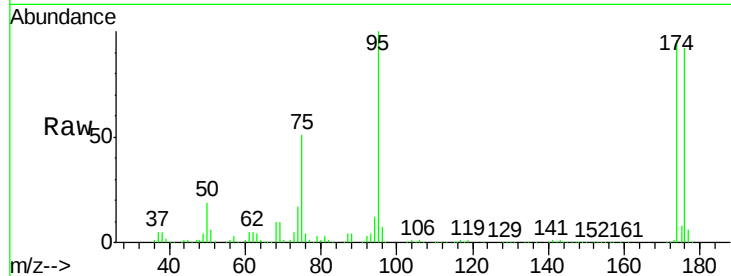
CB-TCLP-VAR2-0518

Tgt Ion: 75 Resp: 85405

Ion Ratio Lower Upper

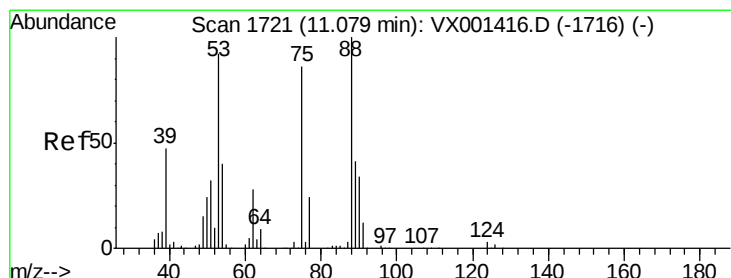
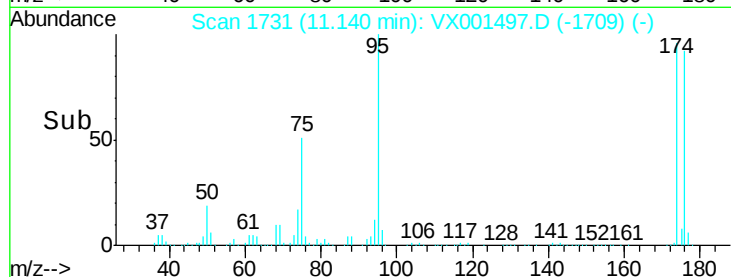
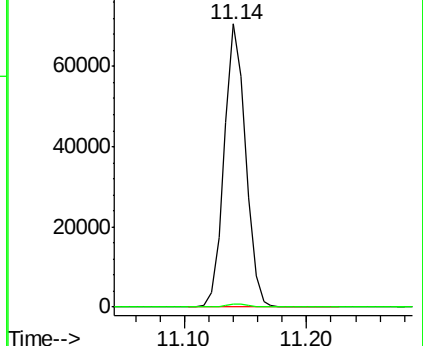
75 100

77 1.4 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 70.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001497.D

Acq: 08 May 2018 05:59

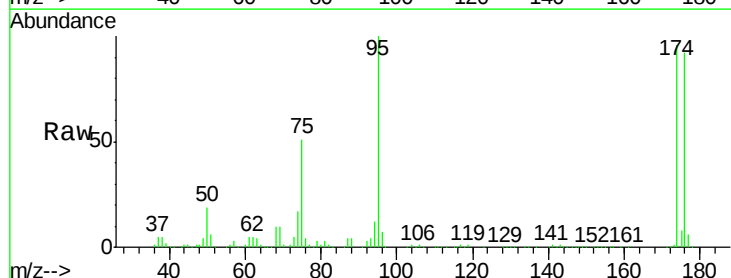
Tgt Ion: 75 Resp: 85405

Ion Ratio Lower Upper

75 100

53 0.0 84.5 126.7#

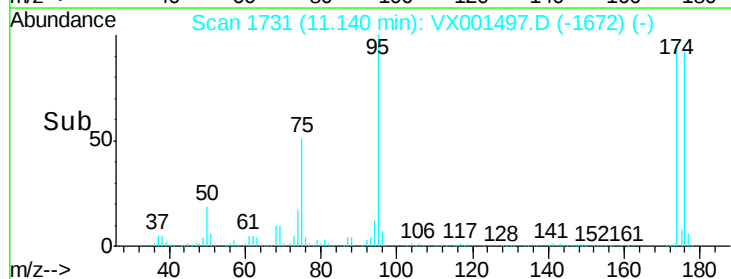
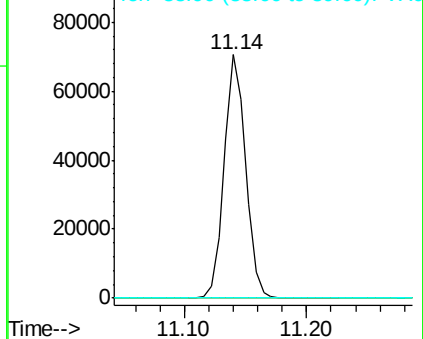
89 0.0 39.5 59.3#

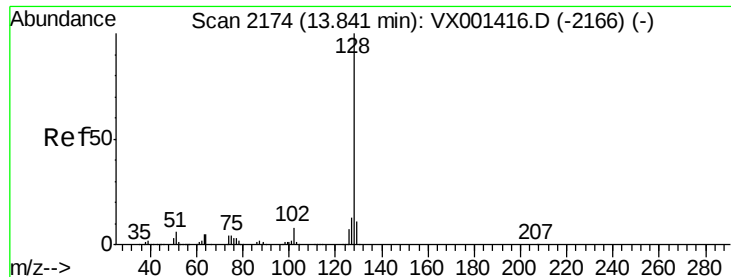


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.31 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001497.D

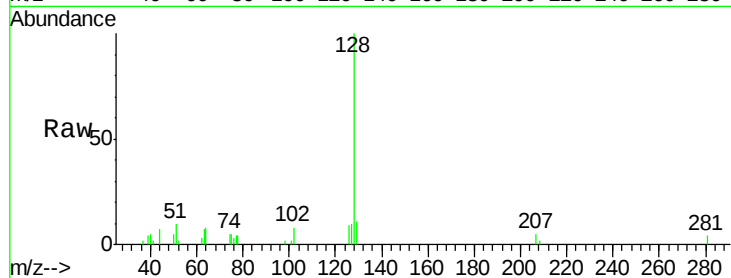
Acq: 08 May 2018 05:59

Instrument :

MSVOA\_X

ClientSampleId :

CB-TCLP-VAR2-0518



Tgt Ion:128 Resp: 4315

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 13.2 8.7 13.1#

