

Data File : VT019117.D  
Acq On : 28 Nov 2018 21:19  
Operator : SY/MD  
Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA\_T/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDCCC050EC

Quant Time: Nov 29 06:31:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_T\METHODS\82T112818TCLP.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 29 06:21:27 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.45  | 168  | 316754   | 50.00 | ug/l  | 0.00     |
| 7) 1,4-Difluorobenzene     | 8.38  | 114  | 599830   | 50.00 | ug/l  | 0.00     |
| 15) Chlorobenzene-d5       | 11.24 | 117  | 607967   | 50.00 | ug/l  | 0.00     |
| 18) 1,4-Dichlorobenzene-d4 | 13.16 | 152  | 315479   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                          |        |     |          |       |         |      |
|--------------------------|--------|-----|----------|-------|---------|------|
| 6) 1,2-Dichloroethane-d4 | 7.82   | 65  | 366400   | 58.88 | ug/l    | 0.00 |
| Spiked Amount            | 50.000 |     | Recovery | =     | 117.76% |      |
| 8) Dibromofluoromethane  | 7.37   | 113 | 214686   | 55.60 | ug/l    | 0.00 |
| Spiked Amount            | 50.000 |     | Recovery | =     | 111.20% |      |
| 13) Toluene-d8           | 9.91   | 98  | 945502   | 55.93 | ug/l    | 0.00 |
| Spiked Amount            | 50.000 |     | Recovery | =     | 111.86% |      |
| 14) 4-Bromofluorobenzene | 12.23  | 95  | 366722   | 57.69 | ug/l    | 0.00 |
| Spiked Amount            | 50.000 |     | Recovery | =     | 115.38% |      |

Target Compounds

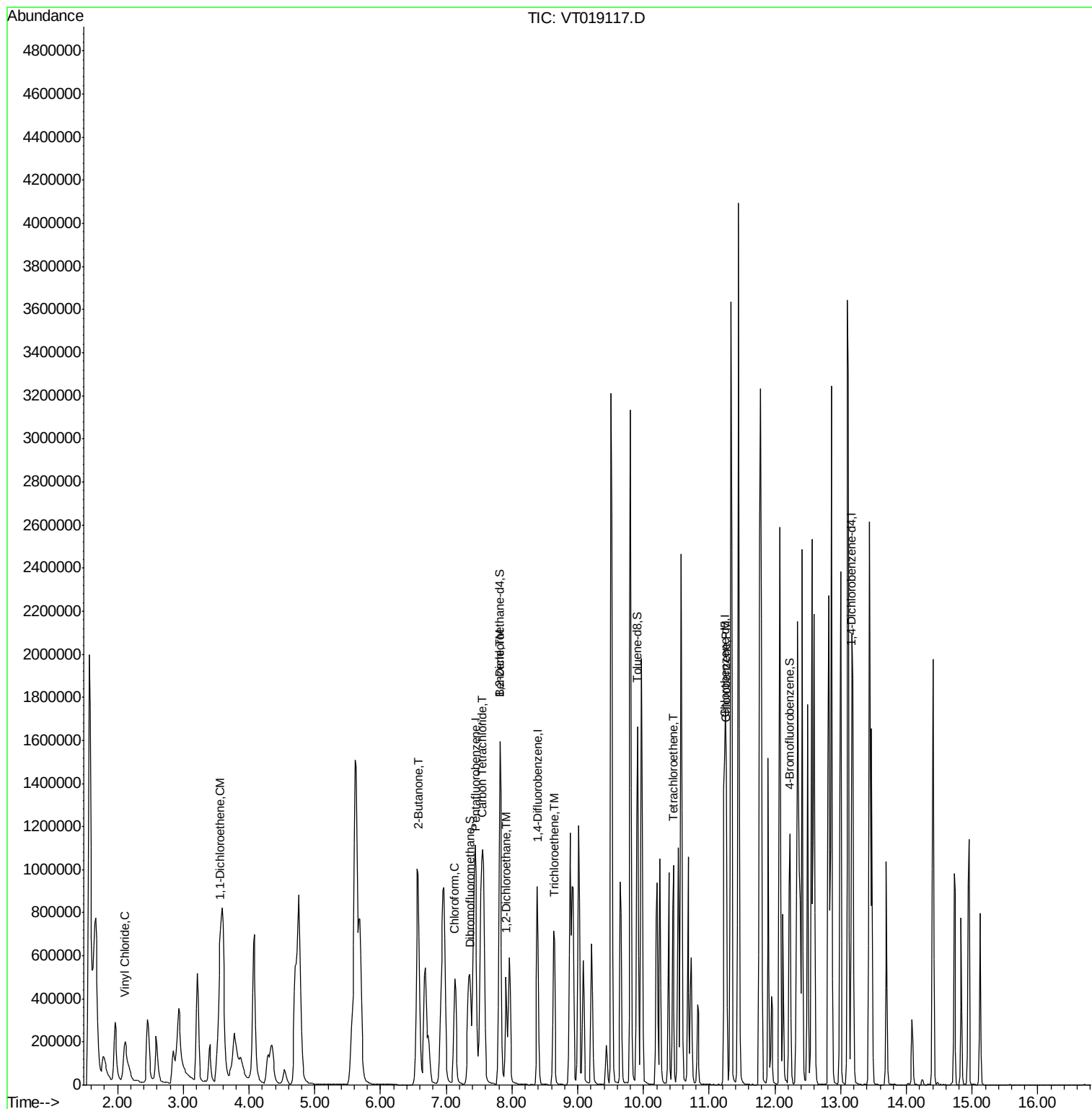
|                         |       |     |         |         |        | Qvalue |
|-------------------------|-------|-----|---------|---------|--------|--------|
| 2) Vinyl Chloride       | 2.11  | 62  | 537008  | 55.609  | ug/l   | 99     |
| 3) 1,1-Dichloroethene   | 3.56  | 96  | 358689  | 53.996  | ug/l # | 82     |
| 4) 2-Butanone           | 6.57  | 43  | 850201  | 285.888 | ug/l   | 97     |
| 5) Chloroform           | 7.13  | 83  | 478690  | 55.027  | ug/l   | 100    |
| 9) Carbon Tetrachloride | 7.54  | 117 | 357146  | 55.532  | ug/l   | 99     |
| 10) Benzene             | 7.82  | 78  | 1121654 | 53.601  | ug/l   | 100    |
| 11) 1,2-Dichloroethane  | 7.91  | 62  | 443463  | 58.032  | ug/l   | 96     |
| 12) Trichloroethene     | 8.64  | 130 | 202236  | 49.382  | ug/l   | 91     |
| 16) Tetrachloroethene   | 10.45 | 164 | 168638  | 49.785  | ug/l   | 91     |
| 17) Chlorobenzene       | 11.26 | 112 | 686099  | 49.754  | ug/l   | 99     |

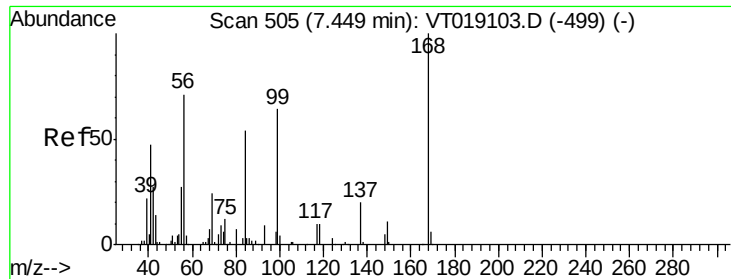
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 29 06:21:27 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.45 min Scan# 505

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

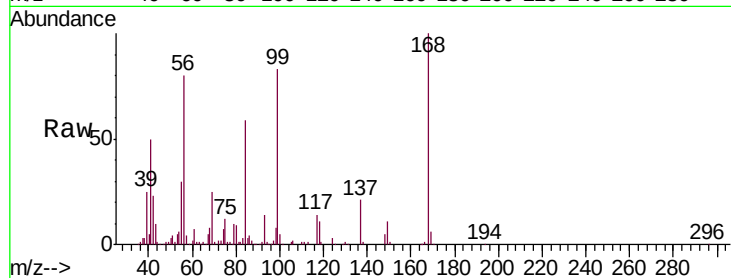
VSTDCCC050EC

Tgt Ion:168 Resp: 316754

Ion Ratio Lower Upper

168 100

99 82.4 59.5 89.3



Abundance Ion 167.90 (167.60 to 168.60): VT0

Ion 98.90 (98.60 to 99.60): VT0

7.45

150000

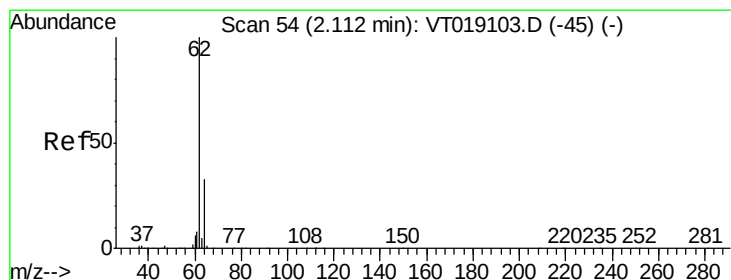
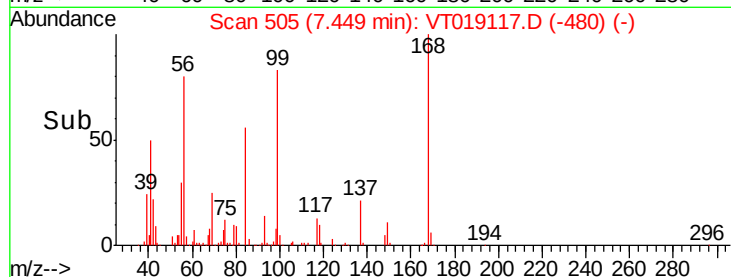
100000

50000

0

7.30 7.40 7.50 7.60

Time-->



#2

Vinyl Chloride

Concen: 55.609 ug/l

RT: 2.11 min Scan# 54

Delta R.T. 0.00 min

Lab File: VT019117.D

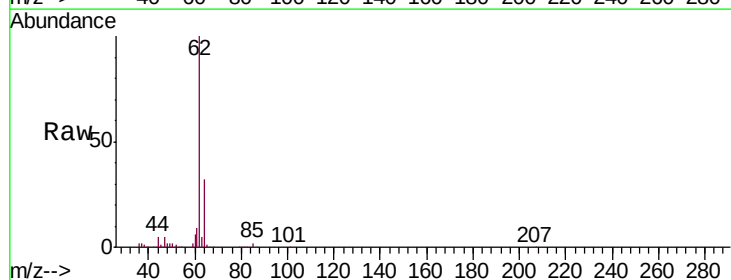
Acq: 28 Nov 2018 21:19

Tgt Ion: 62 Resp: 537008

Ion Ratio Lower Upper

62 100

64 31.9 26.1 39.1



Abundance Ion 61.90 (61.60 to 62.60): VT0

Ion 63.90 (63.60 to 64.60): VT0

2.11

120000

100000

80000

60000

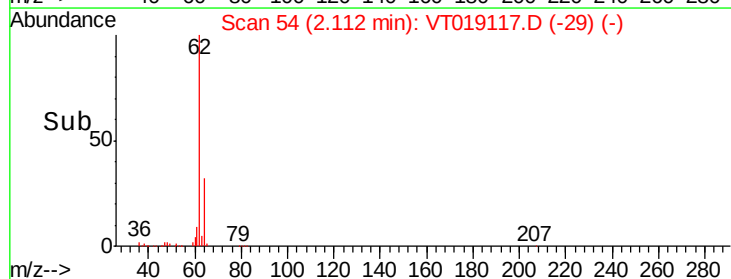
40000

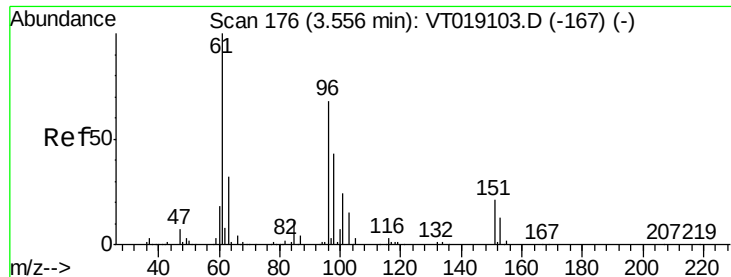
20000

0

2.00 2.20 2.40

Time-->





#3

1,1-Dichloroethene

Concen: 53.996 ug/l

RT: 3.56 min Scan# 176

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

VSTDCCC050EC

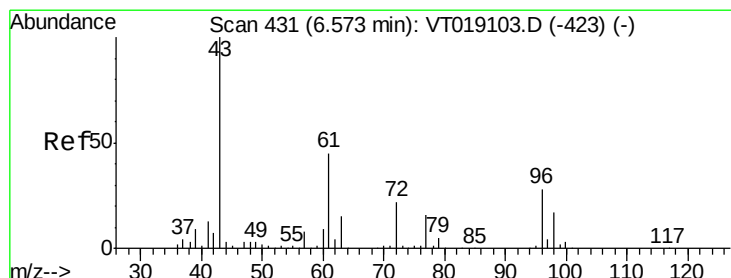
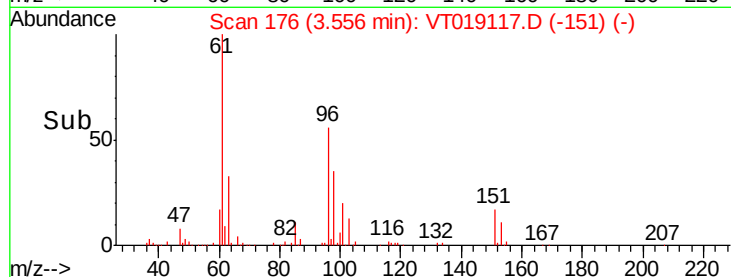
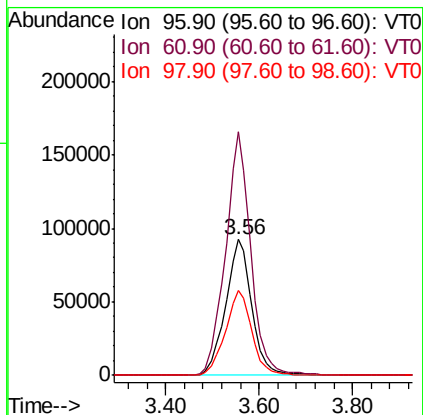
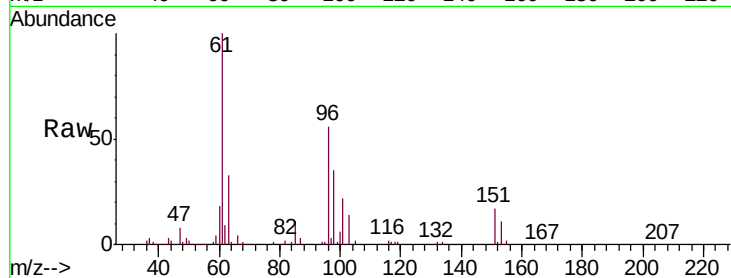
Tgt Ion: 96 Resp: 358689

Ion Ratio Lower Upper

96 100

61 179.3 117.8 176.8#

98 62.5 51.0 76.6



#4

2-Butanone

Concen: 285.888 ug/l

RT: 6.57 min Scan# 431

Delta R.T. 0.00 min

Lab File: VT019117.D

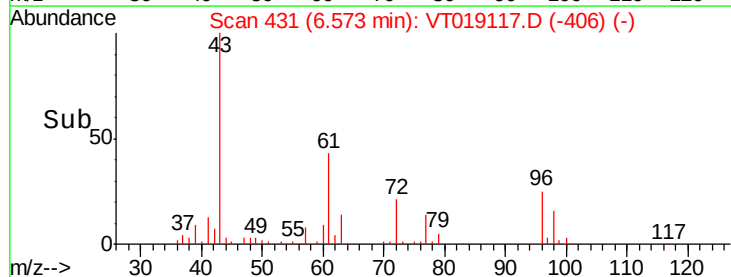
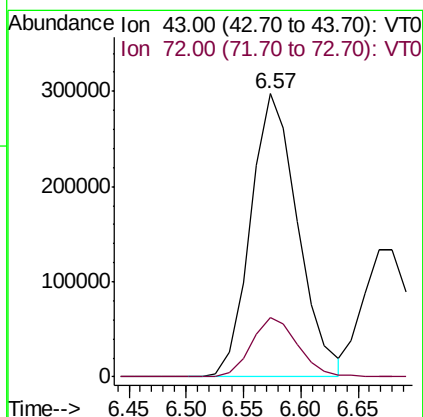
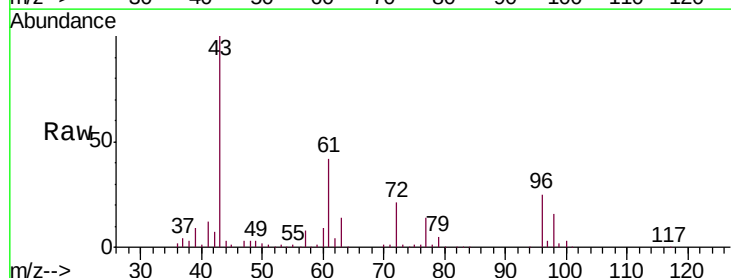
Acq: 28 Nov 2018 21:19

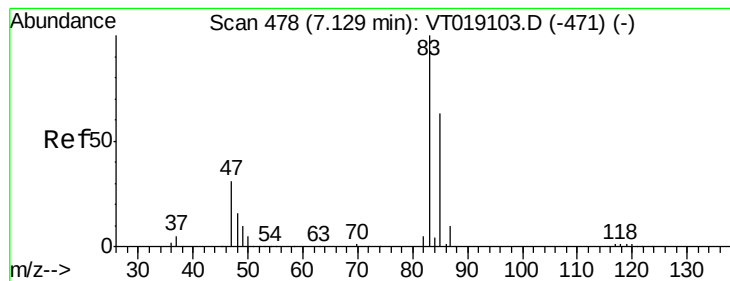
Tgt Ion: 43 Resp: 850201

Ion Ratio Lower Upper

43 100

72 20.9 17.8 26.6





#5

Chloroform

Concen: 55.027 ug/l

RT: 7.13 min Scan# 478

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

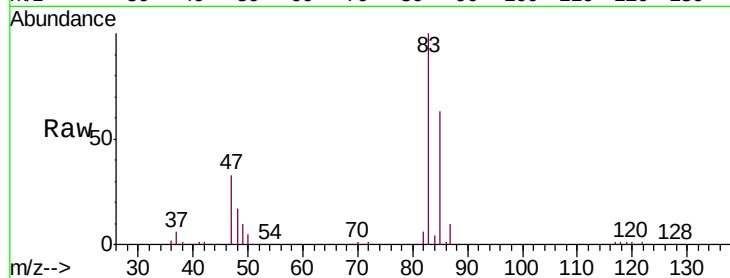
VSTDCCC050EC

Tgt Ion: 83 Resp: 478690

Ion Ratio Lower Upper

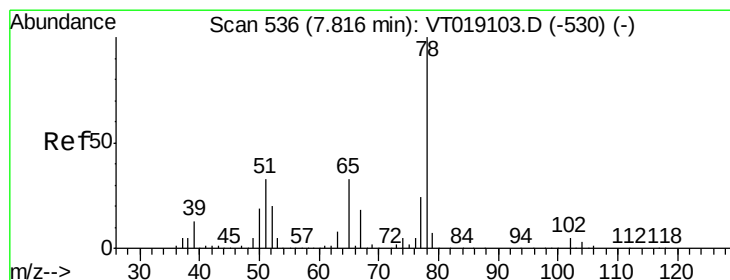
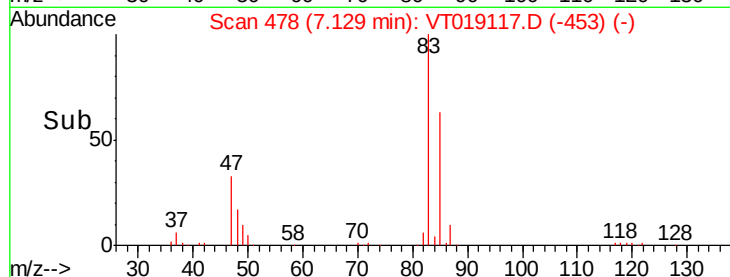
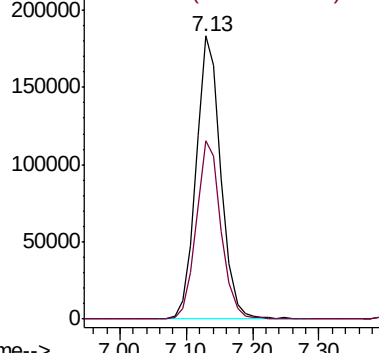
83 100

85 63.1 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VT0

Ion 84.90 (84.60 to 85.60): VT0



#6

1,2-Dichloroethane-d4

Concen: 58.882 ug/l

RT: 7.82 min Scan# 536

Delta R.T. 0.00 min

Lab File: VT019117.D

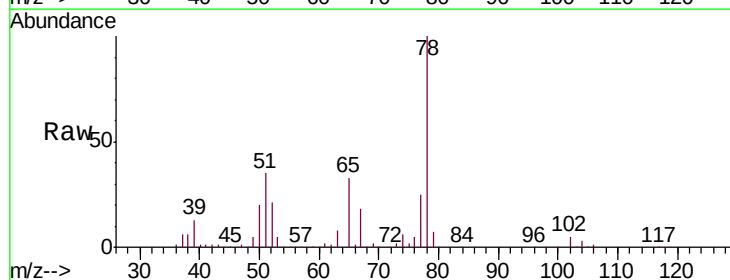
Acq: 28 Nov 2018 21:19

Tgt Ion: 65 Resp: 366400

Ion Ratio Lower Upper

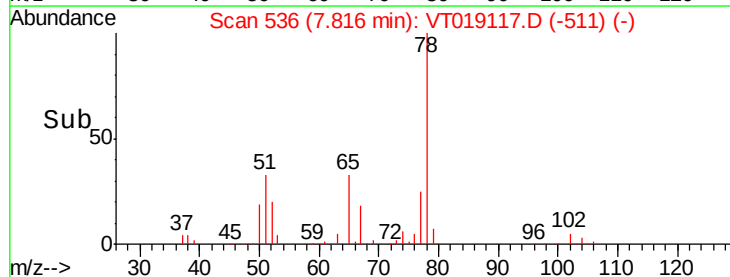
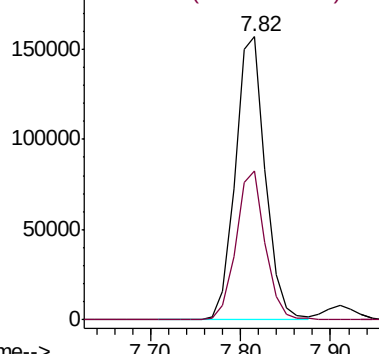
65 100

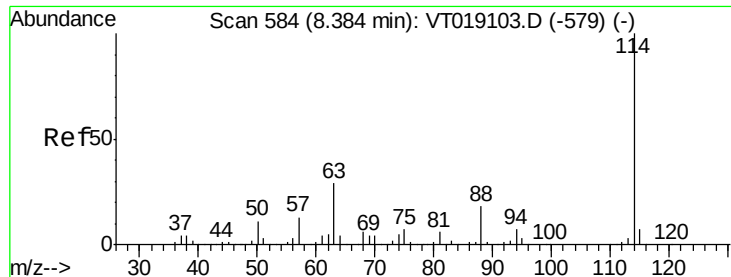
67 51.8 0.0 108.0



Abundance Ion 64.90 (64.60 to 65.60): VT0

Ion 66.90 (66.60 to 67.60): VT0





#7

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.38 min Scan# 584

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

VSTDCCC050EC

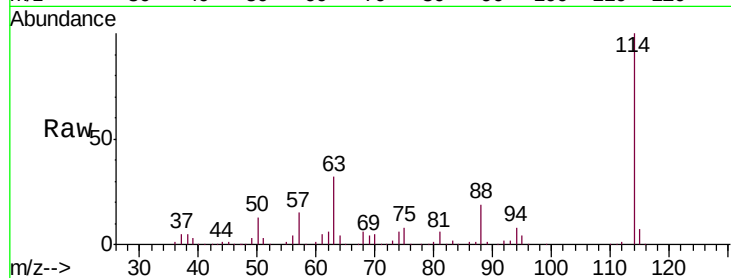
Tgt Ion:114 Resp: 599830

Ion Ratio Lower Upper

114 100

63 31.9 0.0 57.4

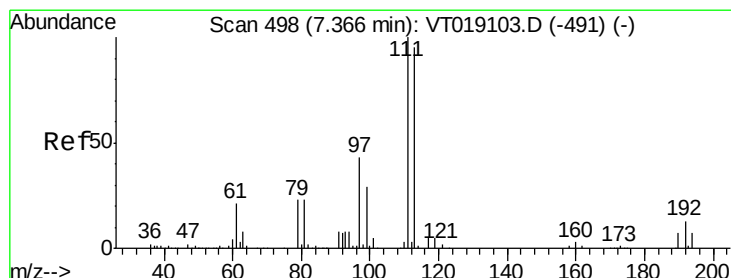
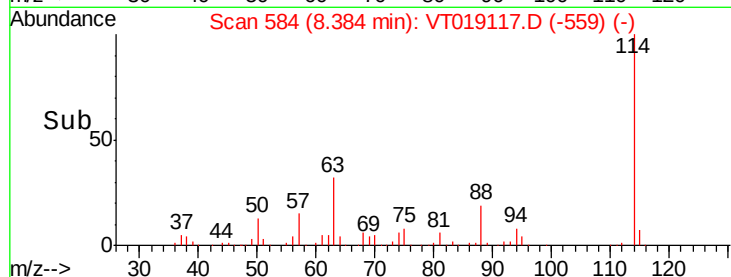
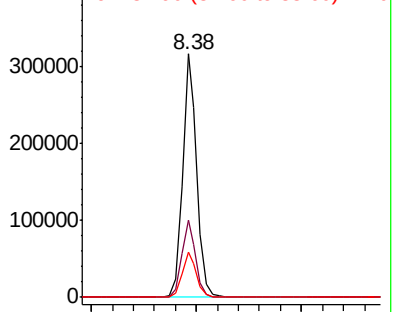
88 18.5 0.0 37.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VT0

Ion 87.90 (87.60 to 88.60): VT0



#8

Dibromofluoromethane

Concen: 55.605 ug/l

RT: 7.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

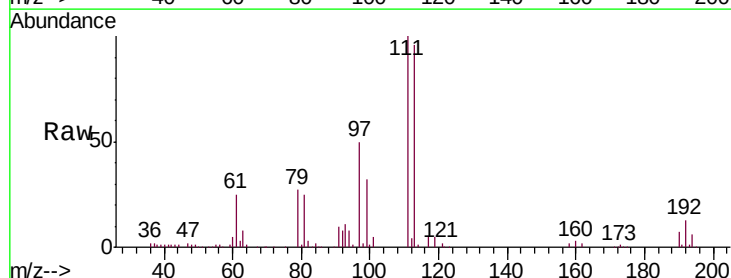
Tgt Ion:113 Resp: 214686

Ion Ratio Lower Upper

113 100

111 102.0 83.9 125.9

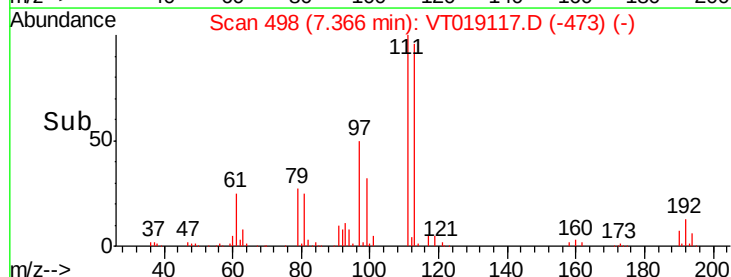
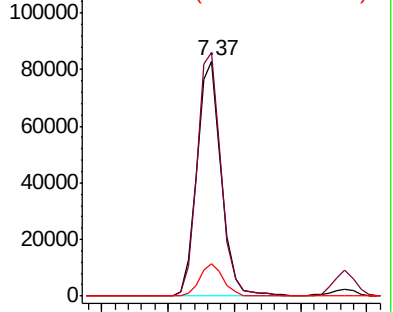
192 13.2 11.5 17.3

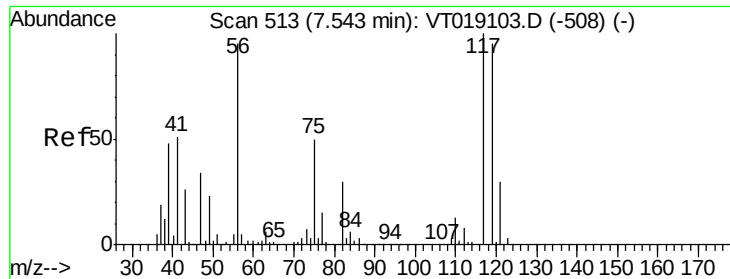


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#9

Carbon Tetrachloride

Concen: 55.532 ug/l

RT: 7.54 min Scan# 513

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

VSTDCCC050EC

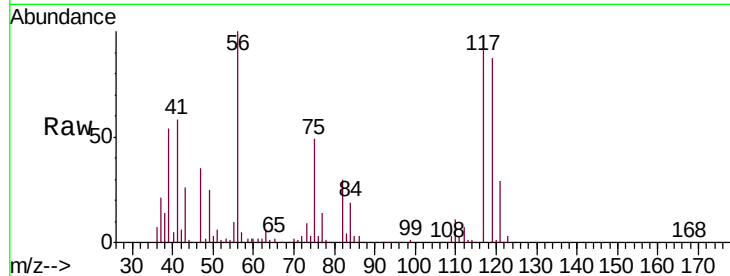
Tgt Ion:117 Resp: 357146

Ion Ratio Lower Upper

117 100

119 94.6 75.0 112.6

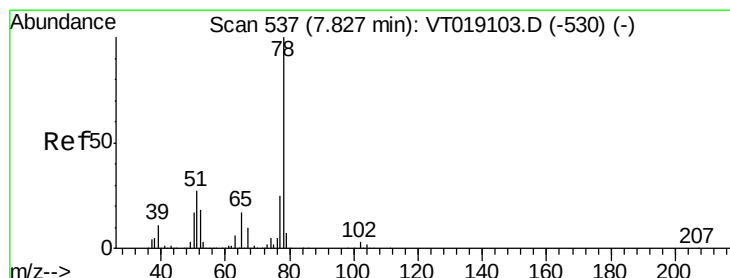
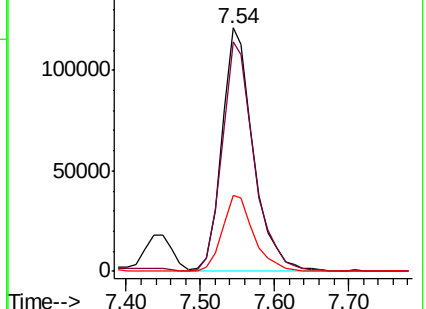
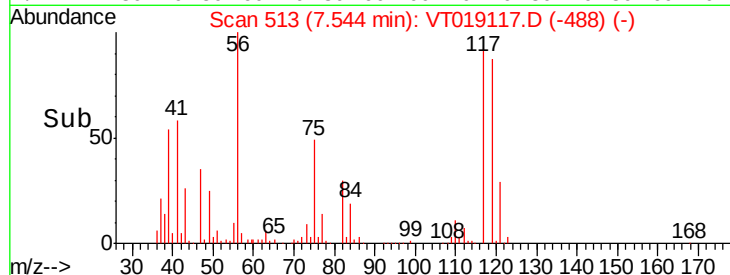
121 31.2 23.5 35.3



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



#10

Benzene

Concen: 53.601 ug/l

RT: 7.82 min Scan# 536

Delta R.T. -0.01 min

Lab File: VT019117.D

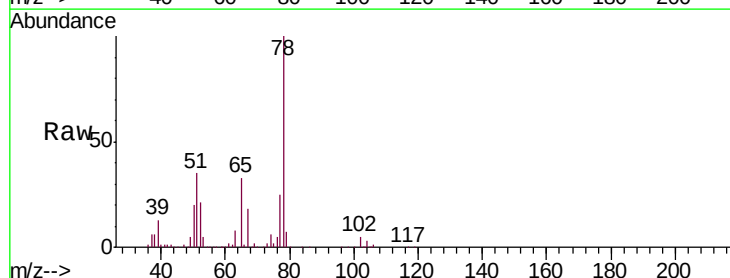
Acq: 28 Nov 2018 21:19

Tgt Ion: 78 Resp: 1121654

Ion Ratio Lower Upper

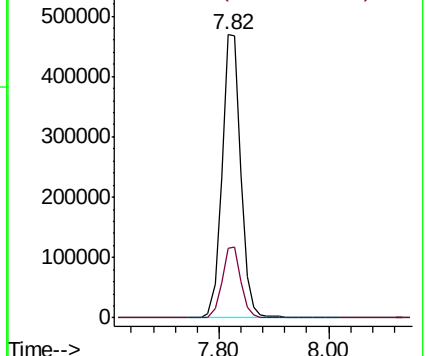
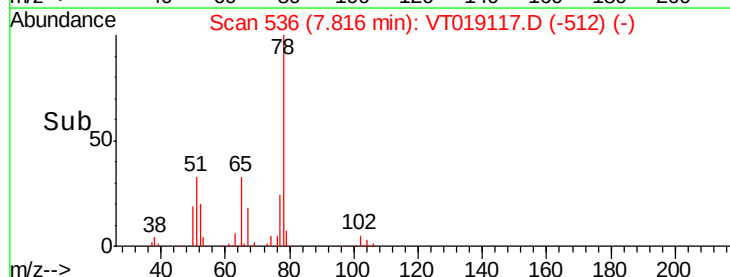
78 100

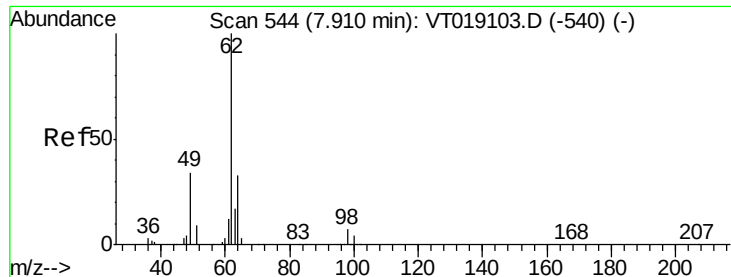
77 24.8 19.7 29.5



Abundance Ion 78.00 (77.70 to 78.70): VT0

Ion 77.00 (76.70 to 77.70): VT0

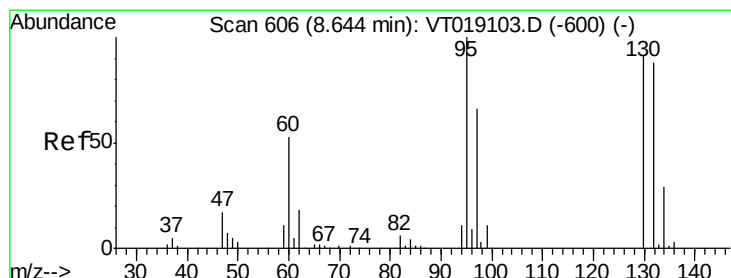
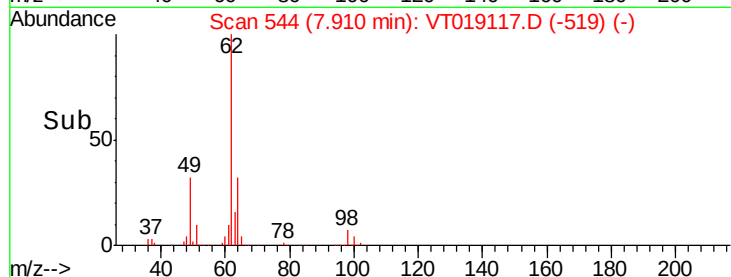
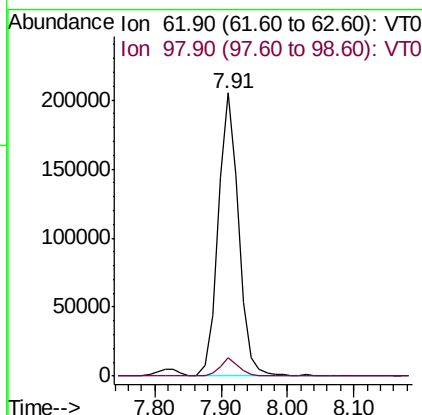
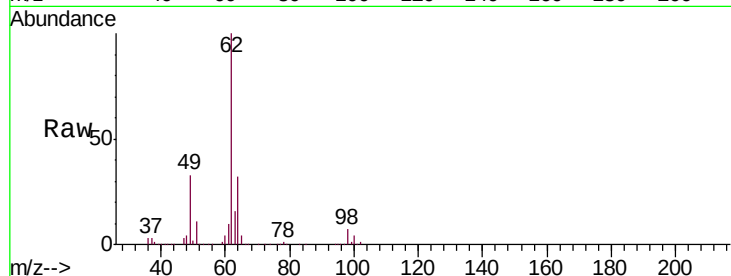




#11  
1,2-Dichloroethane  
Concen: 58.032 ug/l  
RT: 7.91 min Scan# 544  
Delta R.T. 0.00 min  
Lab File: VT019117.D  
Acq: 28 Nov 2018 21:19

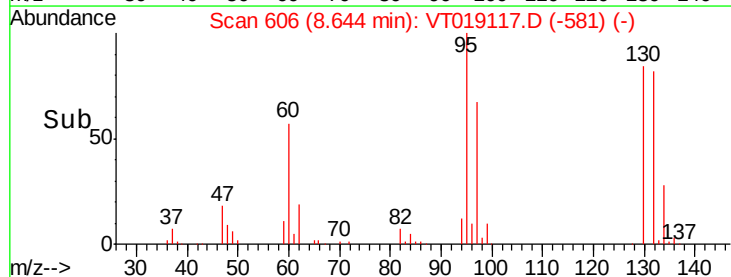
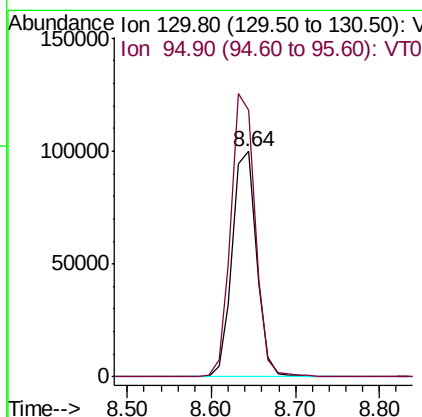
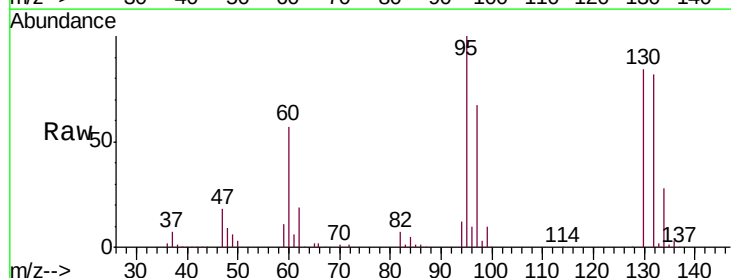
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion: 62 Resp: 443463  
Ion Ratio Lower Upper  
62 100  
98 6.1 0.0 14.6

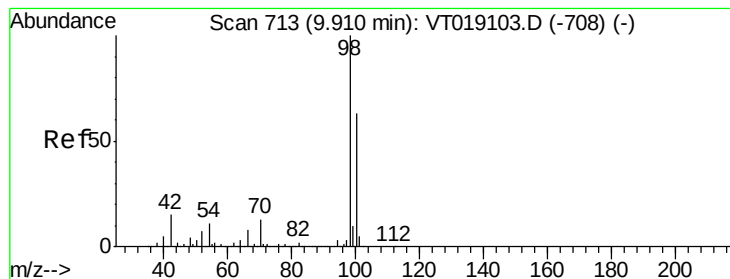


#12  
Trichloroethene  
Concen: 49.382 ug/l  
RT: 8.64 min Scan# 606  
Delta R.T. 0.00 min  
Lab File: VT019117.D  
Acq: 28 Nov 2018 21:19

Tgt Ion: 130 Resp: 202236  
Ion Ratio Lower Upper  
130 100  
95 118.6 0.0 218.8







#13

Toluene-d8

Concen: 55.927 ug/l

RT: 9.91 min Scan# 713

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

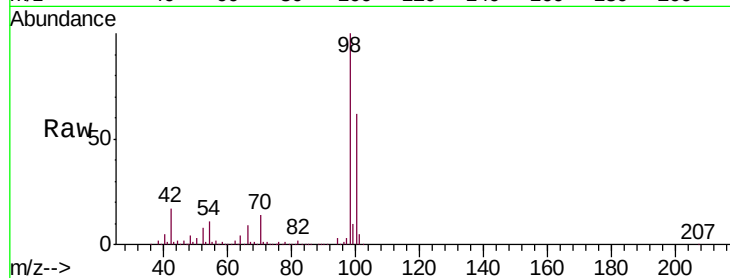
VSTDCCC050EC

Tgt Ion: 98 Resp: 945502

Ion Ratio Lower Upper

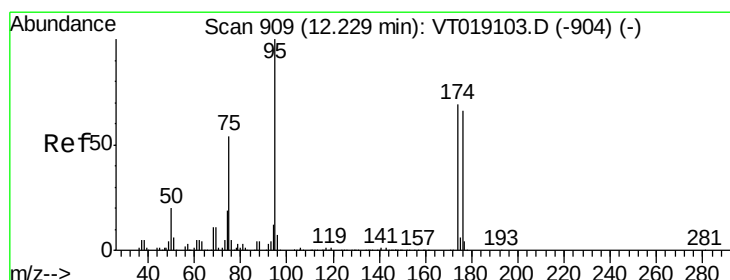
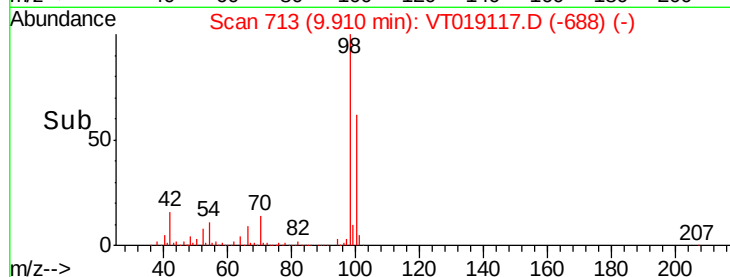
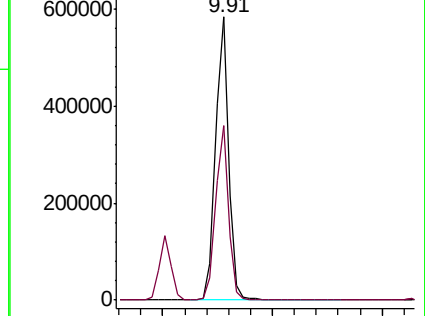
98 100

100 61.1 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VT0

Ion 100.00 (99.70 to 100.70): VT



#14

4-Bromofluorobenzene

Concen: 57.689 ug/l

RT: 12.23 min Scan# 909

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

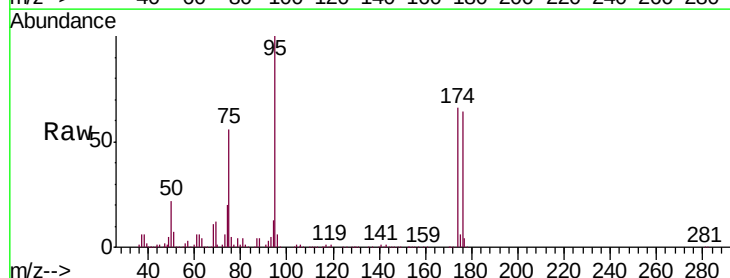
Tgt Ion: 95 Resp: 366722

Ion Ratio Lower Upper

95 100

174 57.0 0.0 123.2

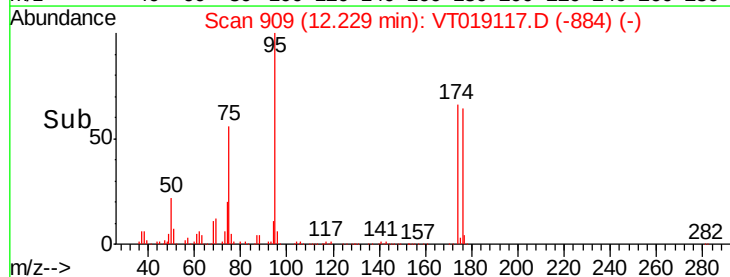
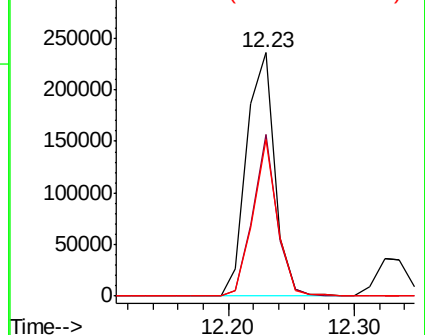
176 55.8 0.0 118.8

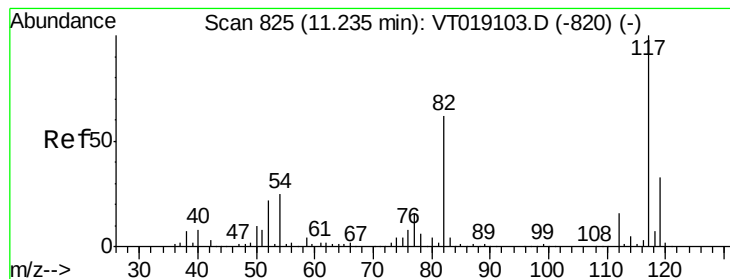


Abundance Ion 94.90 (94.60 to 95.60): VT0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#15

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.24 min Scan# 825

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Instrument :

MSVOA\_T

ClientSampleId :

VSTDCCC050EC

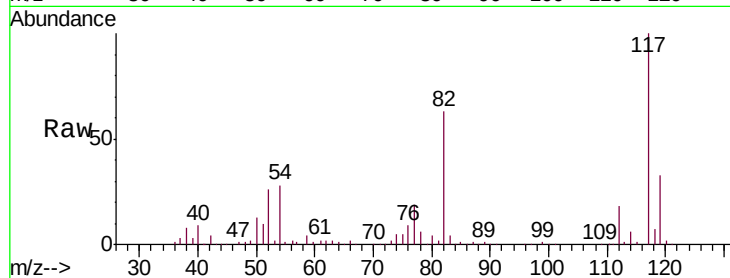
Tgt Ion:117 Resp: 607967

Ion Ratio Lower Upper

117 100

82 62.7 49.7 74.5

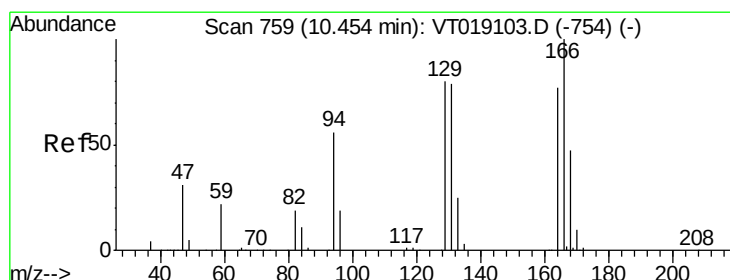
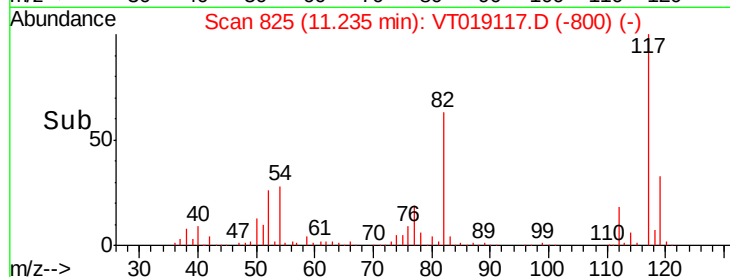
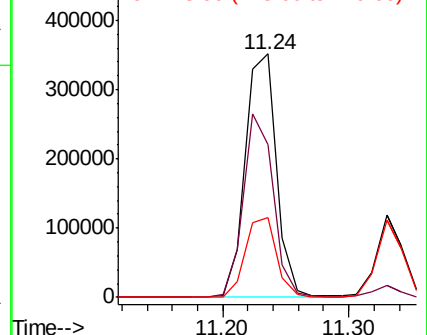
119 33.0 26.3 39.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VT0

Ion 118.90 (118.60 to 119.60): V



#16

Tetrachloroethene

Concen: 49.785 ug/l

RT: 10.45 min Scan# 759

Delta R.T. 0.00 min

Lab File: VT019117.D

Acq: 28 Nov 2018 21:19

Tgt Ion:164 Resp: 168638

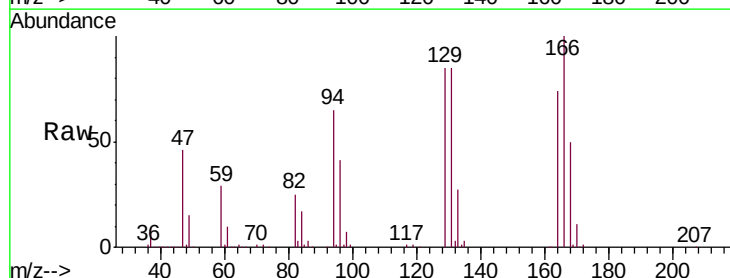
Ion Ratio Lower Upper

164 100

166 134.9 103.6 155.4

129 114.5 82.9 124.3

131 114.1 81.7 122.5

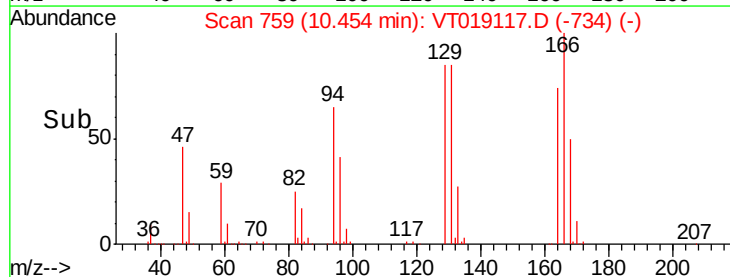
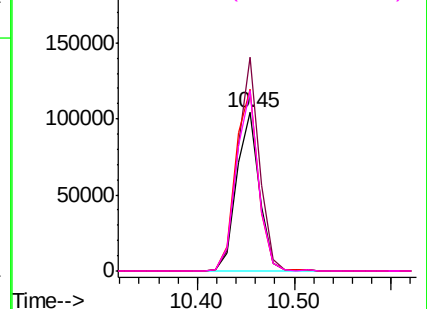


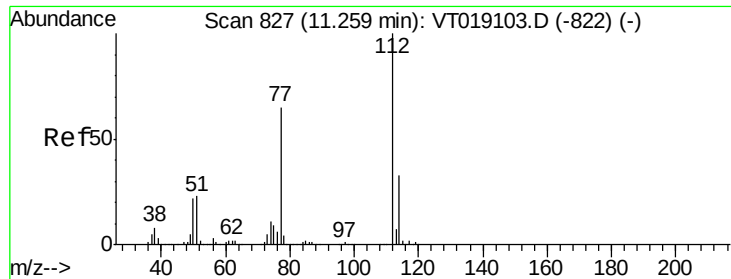
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

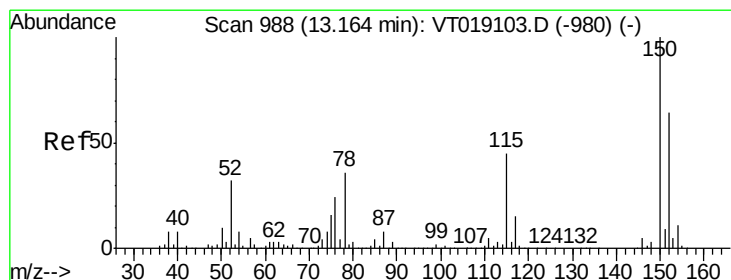
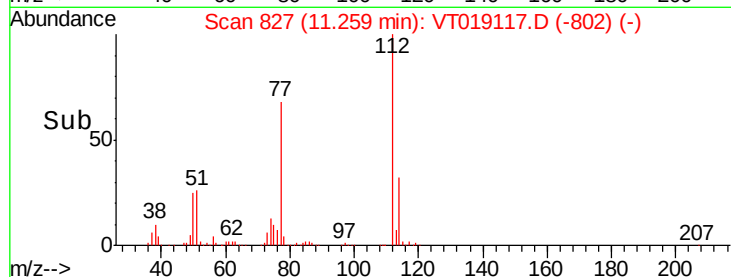
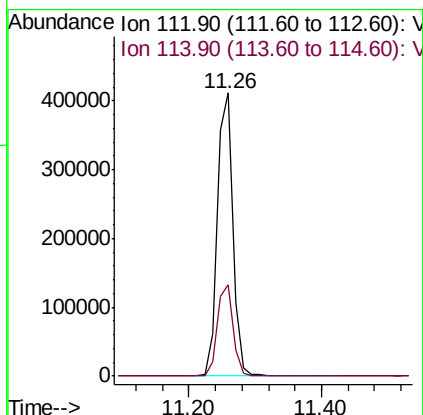
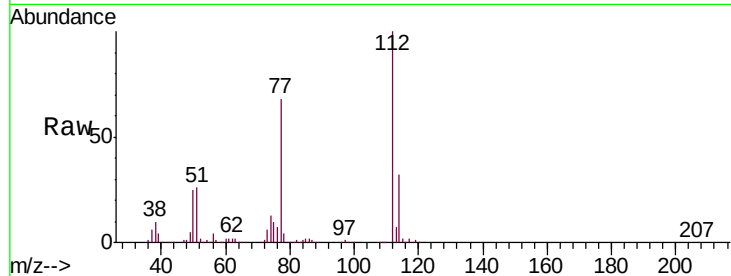




#17  
Chlorobenzene  
Concen: 49.754 ug/l  
RT: 11.26 min Scan# 827  
Delta R.T. 0.00 min  
Lab File: VT019117.D  
Acq: 28 Nov 2018 21:19

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion:112 Resp: 686099  
Ion Ratio Lower Upper  
112 100  
114 32.1 26.3 39.5



#18  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.16 min Scan# 988  
Delta R.T. 0.00 min  
Lab File: VT019117.D  
Acq: 28 Nov 2018 21:19

Tgt Ion:152 Resp: 315479  
Ion Ratio Lower Upper  
152 100  
115 69.3 33.0 99.0  
150 174.9 0.0 343.6

