

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\  
 Data File : VX002788.D  
 Acq On : 21 Jun 2018 15:10  
 Operator : JC/MD  
 Sample : J3575-21  
 Misc : 11.89µ/5.0mL/100µL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-13

Quant Time: Jun 22 01:09:57 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 208626   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 291104   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 278608   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 170702   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 139801   | 44.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.20% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 109530   | 47.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.28% |          |
| 50) Toluene-d8              | 8.72  | 98   | 414125   | 46.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 155894   | 46.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.28% |          |

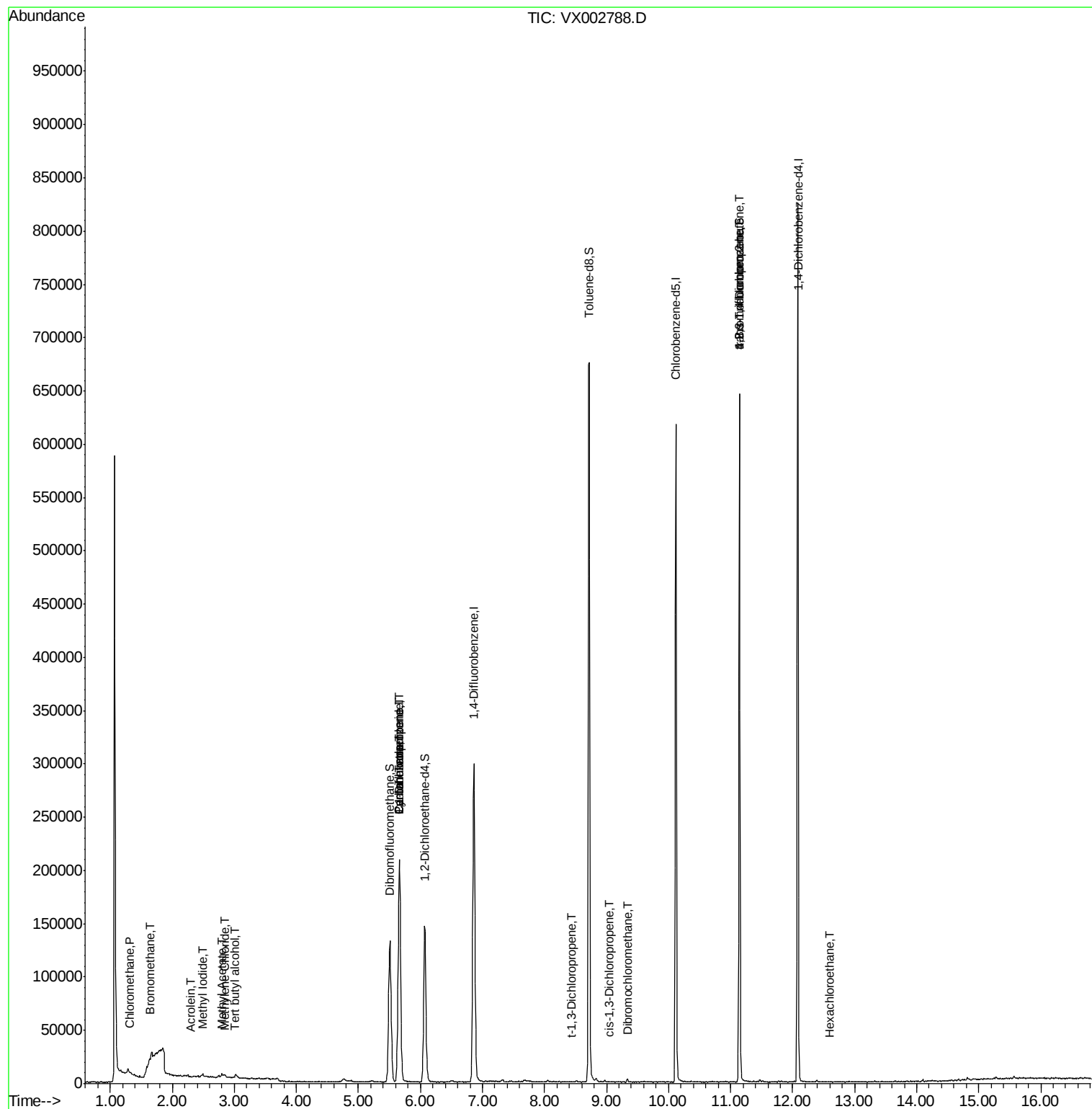
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 545      | 0.21  | ug/l # | 54     |
| 5) Bromomethane                | 1.64  | 94   | 1348     | 0.82  | ug/l # | 79     |
| 10) Methyl Iodide              | 2.49  | 142  | 1960     | 5.71  | ug/l # | 86     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2186     | 3.34  | ug/l # | 89     |
| 13) Acrolein                   | 2.30  | 56   | 196      | 7.48  | ug/l # | 42     |
| 18) Methyl Acetate             | 2.80  | 43   | 4585     | 1.23  | ug/l # | 86     |
| 20) Methylene Chloride         | 2.85  | 84   | 1092     | 0.38  | ug/l # | 67     |
| 31) Cyclohexane                | 5.66  | 56   | 4399     | 1.18  | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14600    | 4.72  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 19231    | 6.25  | ug/l # | 18     |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 67       | 2.41  | ug/l # | 43     |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 127      | 3.25  | ug/l # | 42     |
| 60) Dibromochloromethane       | 9.34  | 129  | 478      | 3.92  | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 82162    | 25.51 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 82162    | 78.97 | ug/l # | 7      |
| 90) Hexachloroethane           | 12.61 | 117  | 48       | 2.65  | ug/l # | 1      |

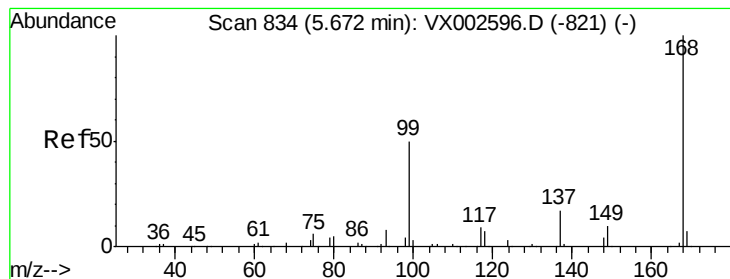
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062118\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-13

Quant Time: Jun 22 01:09:57 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:37:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampleId :

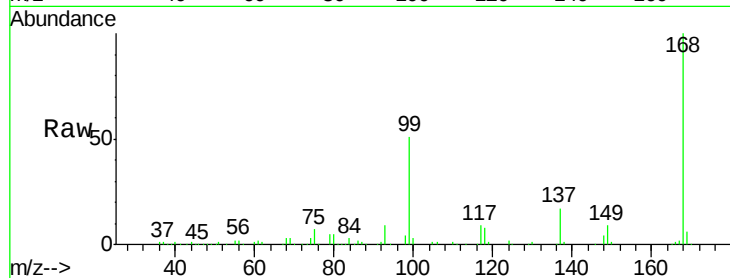
TP-13

Tot Ion:168 Resp: 208626

Ion Ratio Lower Upper

168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

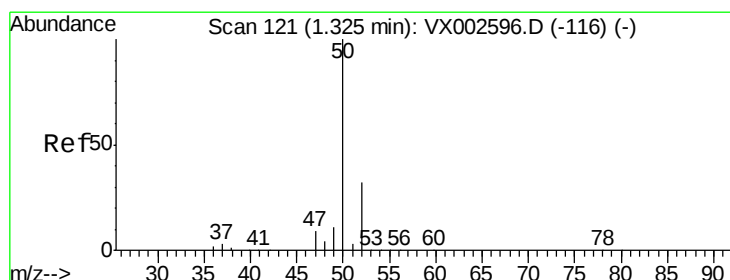
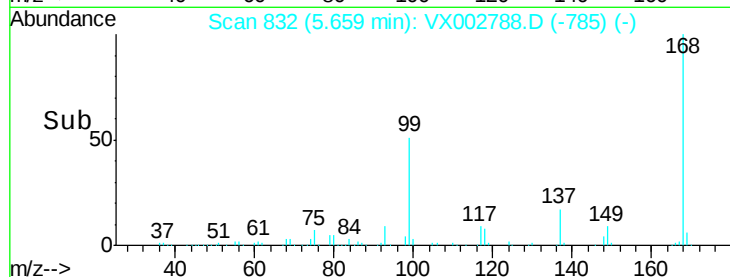
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002788.D

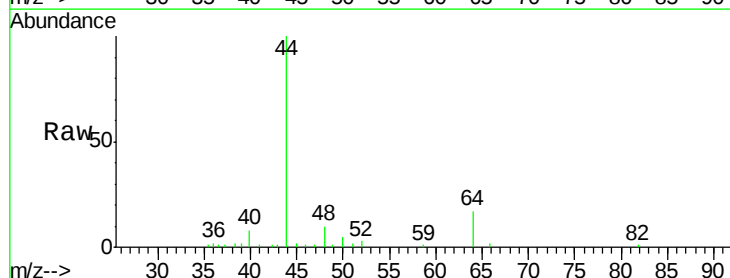
Acq: 21 Jun 2018 15:10

Tgt Ion: 50 Resp: 545

Ion Ratio Lower Upper

50 100

52 57.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

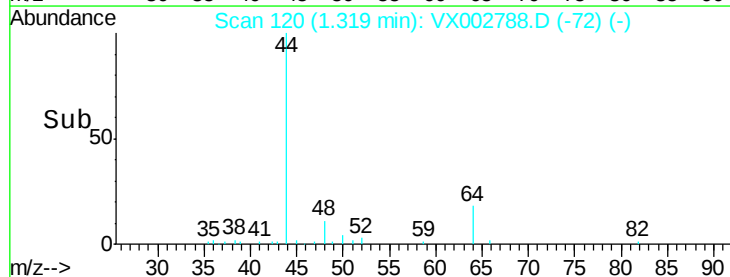
150

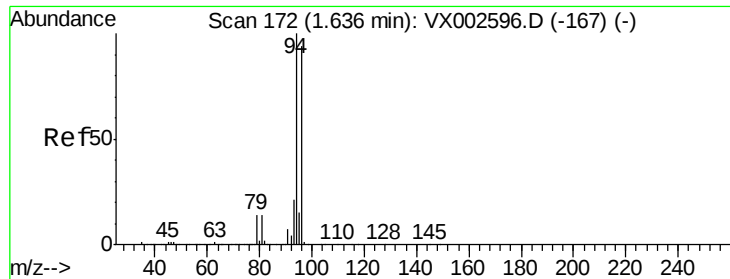
100

50

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.82 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampleId :

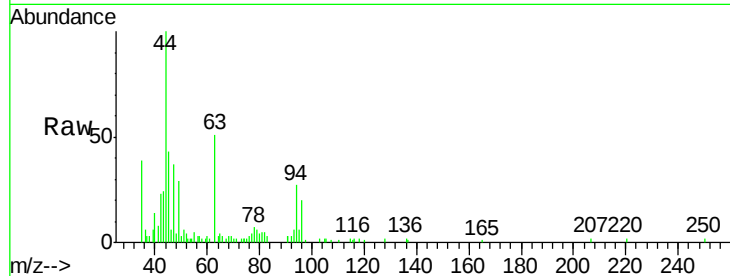
TP-13

Tot Ion: 94 Resp: 1348

Ion Ratio Lower Upper

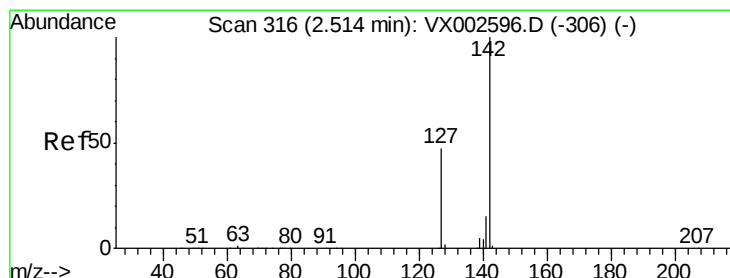
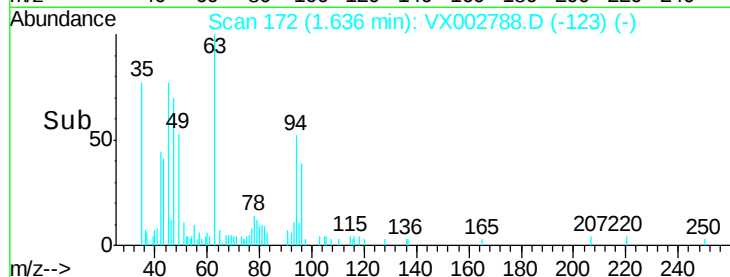
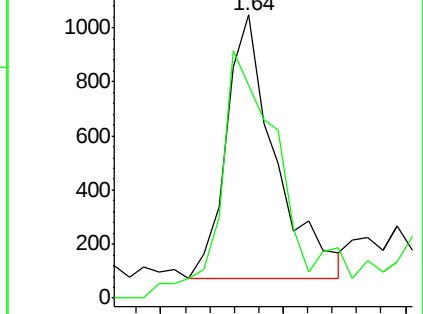
94 100

96 73.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 5.71 ug/l

RT: 2.49 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

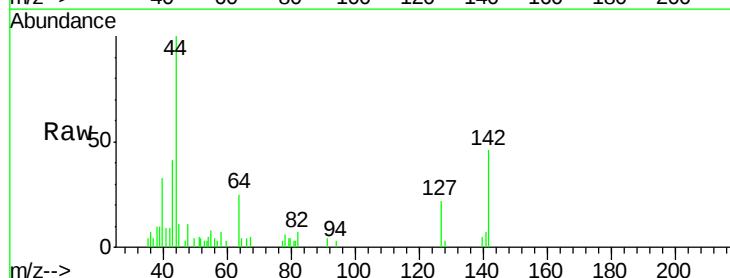
Tgt Ion: 142 Resp: 1960

Ion Ratio Lower Upper

142 100

127 56.6 36.6 55.0#

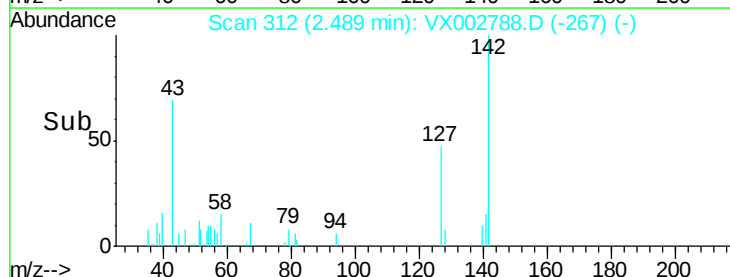
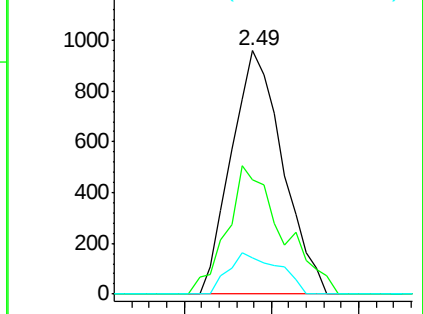
141 16.4 11.3 16.9

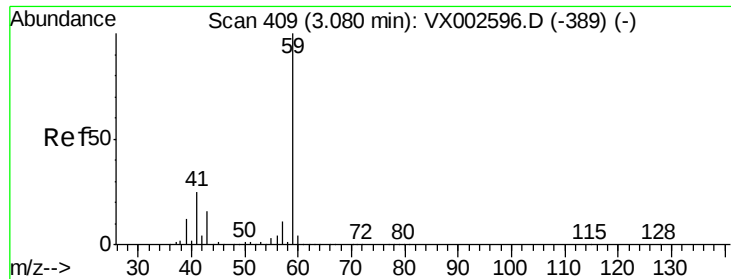


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

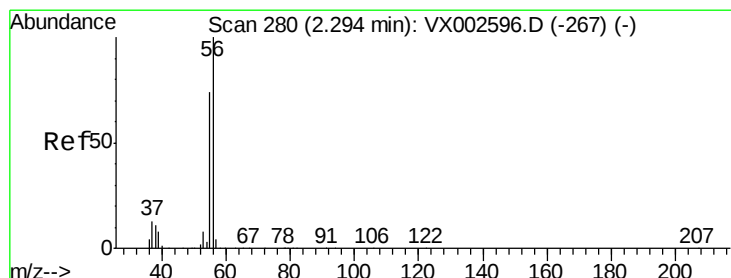
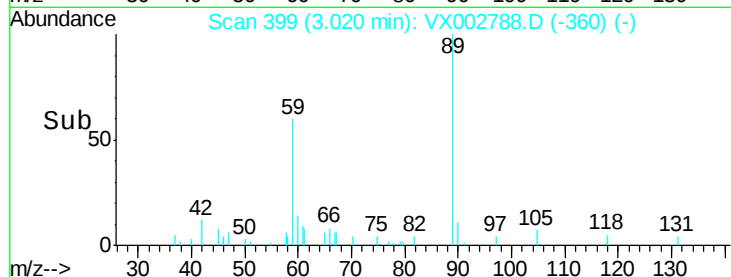
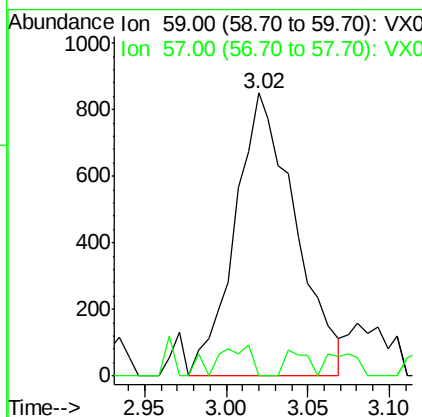
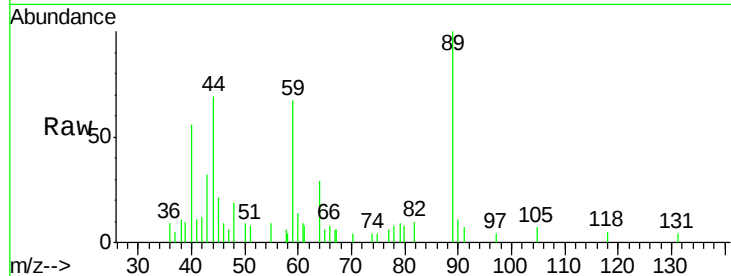




#11  
Tert butyl alcohol  
Concen: 3.34 ug/l  
RT: 3.02 min Scan# 399  
Delta R.T. -0.06 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

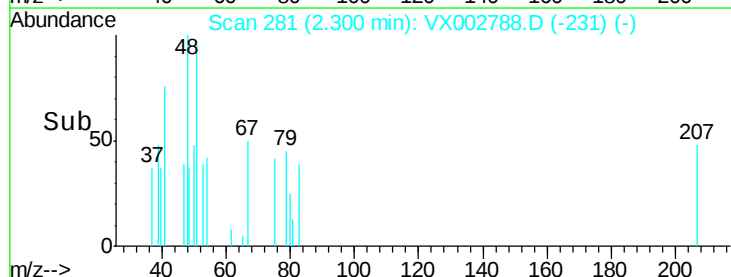
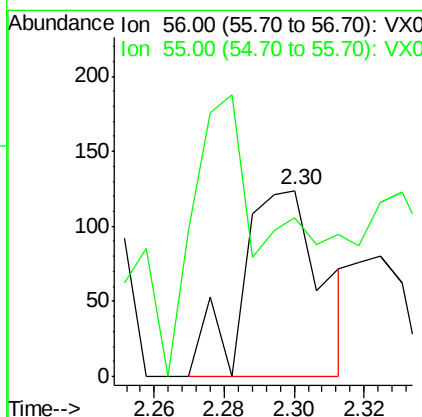
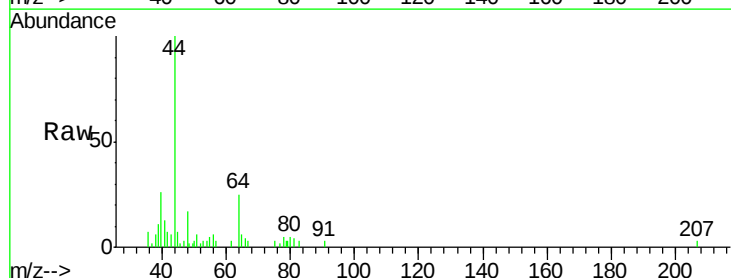
Instrument :  
MSVOA\_X  
ClientSampled :  
TP-13

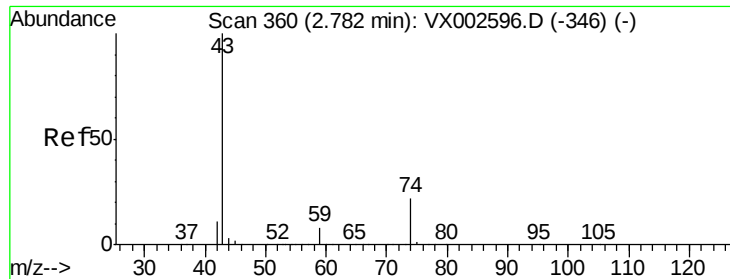
Tot Ion: 59 Resp: 2186  
Ion Ratio Lower Upper  
59 100  
57 6.2 8.2 12.2#



#13  
Acrolein  
Concen: 7.48 ug/l  
RT: 2.30 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 56 Resp: 196  
Ion Ratio Lower Upper  
56 100  
55 118.9 57.0 85.4#





#18

Methyl Acetate

Concen: 1.23 ug/l

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampled :

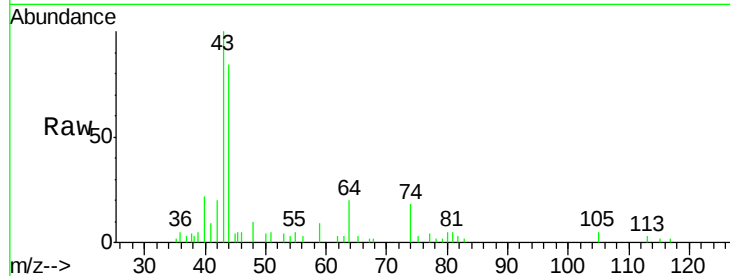
TP-13

Tot Ion: 43 Resp: 4585

Ion Ratio Lower Upper

43 100

74 27.6 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2500

2000

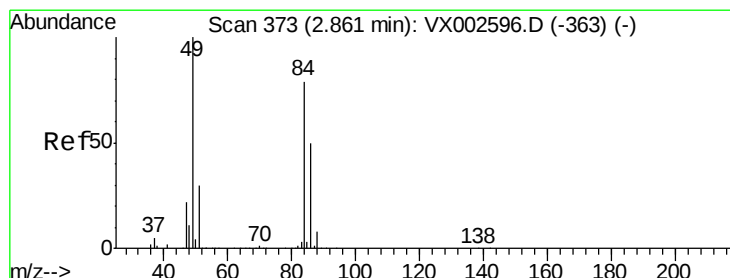
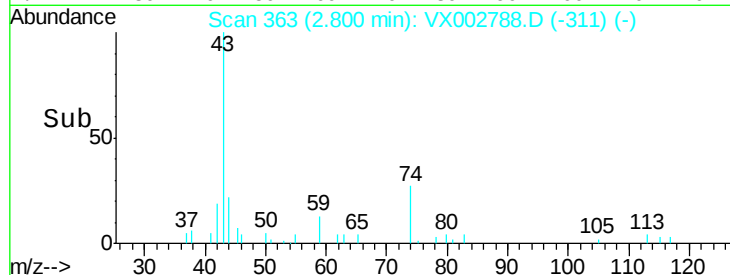
1500

1000

500

0

Time--> 2.70 2.75 2.80 2.85 2.90



#20

Methylene Chloride

Concen: 0.38 ug/l

RT: 2.85 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Tgt Ion: 84 Resp: 1092

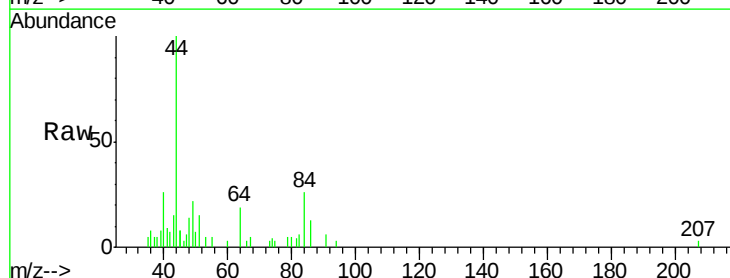
Ion Ratio Lower Upper

84 100

49 85.8 107.8 161.6#

51 56.1 32.8 49.2#

86 48.0 52.5 78.7#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

800

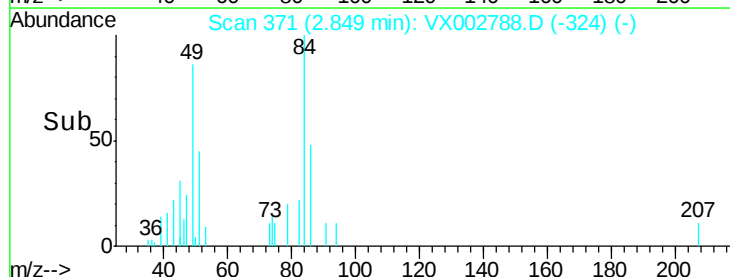
600

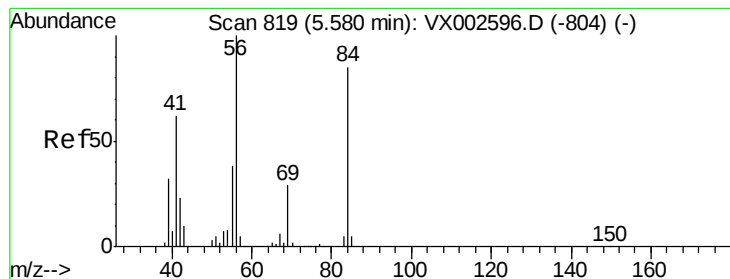
400

200

0

Time--> 2.80 2.85 2.90





#31

Cyclohexane

Concen: 1.18 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :  
MSVOA\_X  
ClientSampled :  
TP-13

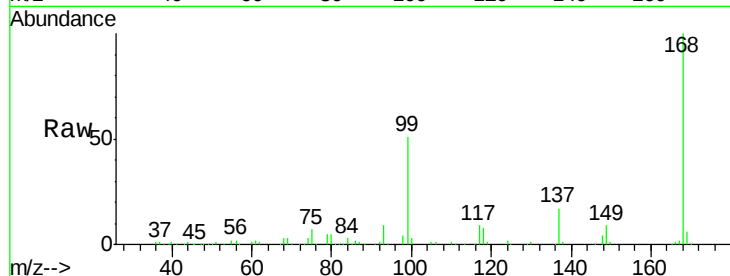
Tot Ion: 56 Resp: 4399

Ion Ratio Lower Upper

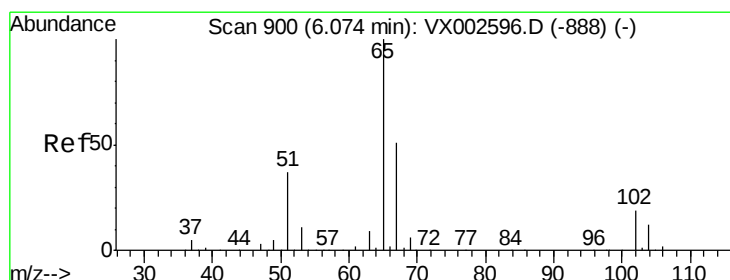
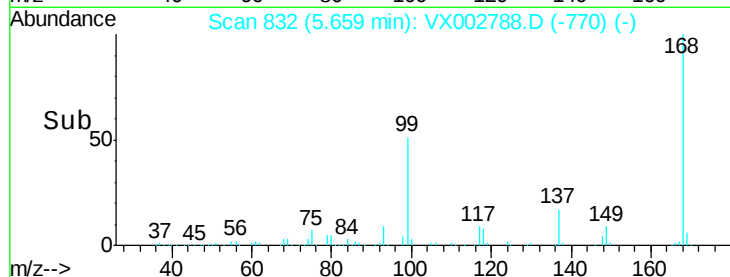
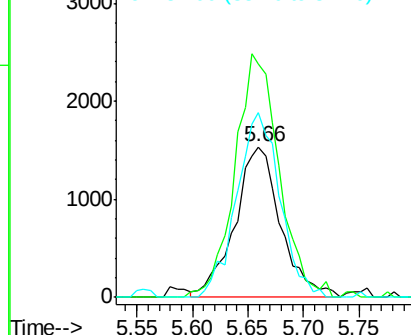
56 100

69 155.2 23.7 35.5#

84 122.6 64.1 96.1#



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: 44.10 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX002788.D

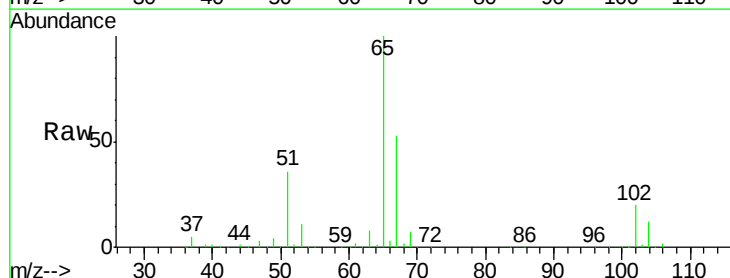
Acq: 21 Jun 2018 15:10

Tgt Ion: 65 Resp: 139801

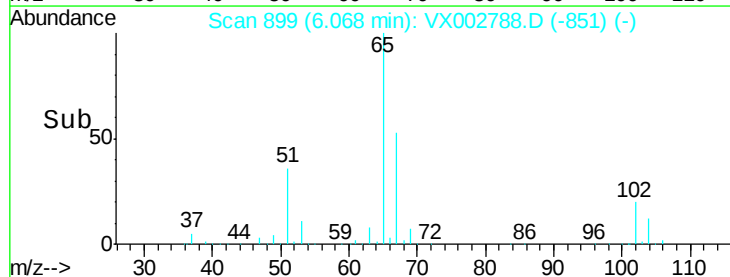
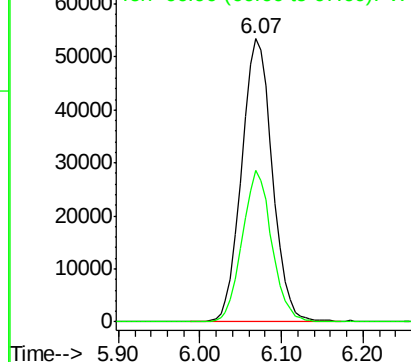
Ion Ratio Lower Upper

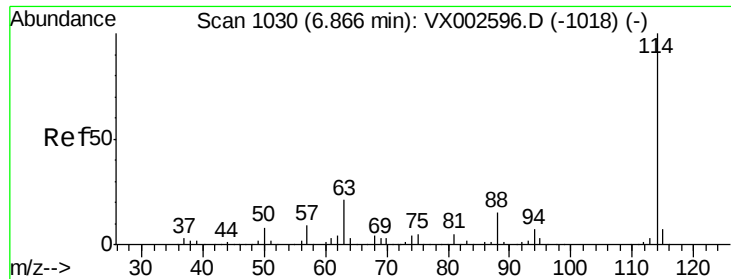
65 100

67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

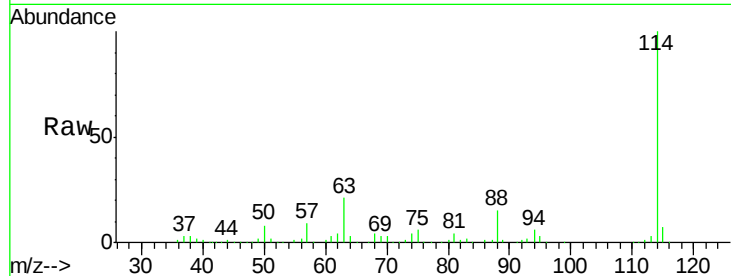




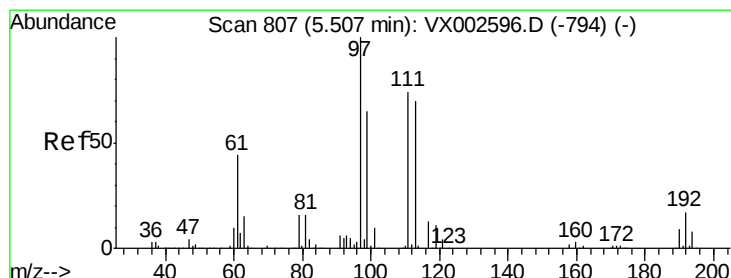
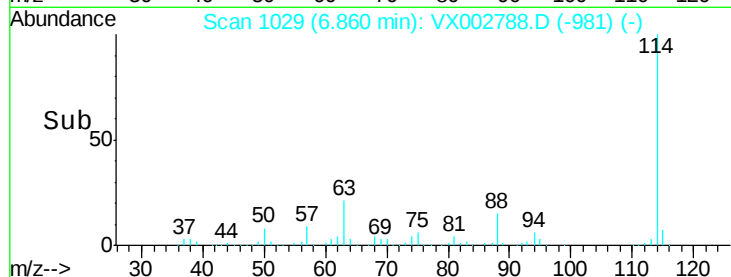
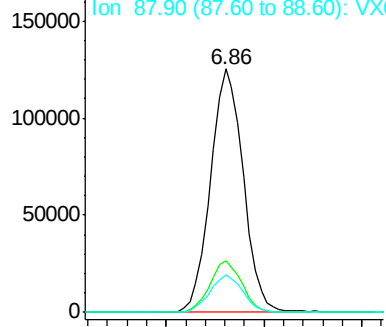
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: VX002788.D  
 Acq: 21 Jun 2018 15:10

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-13

Tot Ion:114 Resp: 291104  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 41.4  
 88 15.4 0.0 30.0

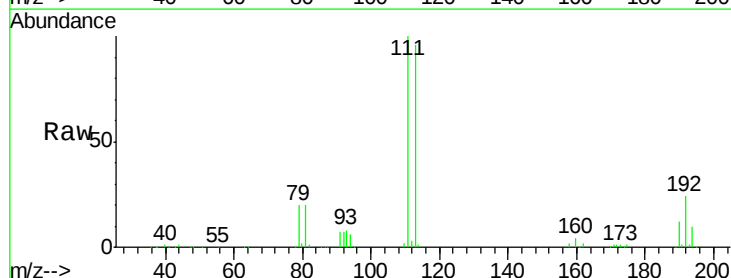


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX  
 Ion 87.90 (87.60 to 88.60): VX

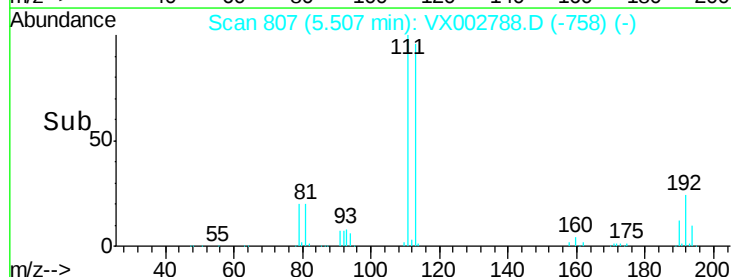
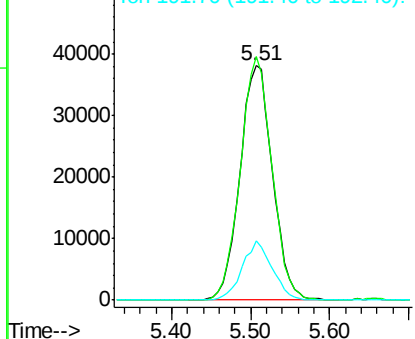


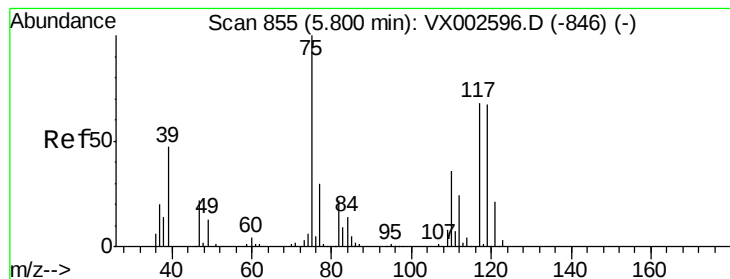
#35  
 Dibromofluoromethane  
 Concen: 47.14 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX002788.D  
 Acq: 21 Jun 2018 15:10

Tgt Ion:113 Resp: 109530  
 Ion Ratio Lower Upper  
 113 100  
 111 100.9 81.4 122.0  
 192 23.5 19.1 28.7



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: 4.72 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampleId :

TP-13

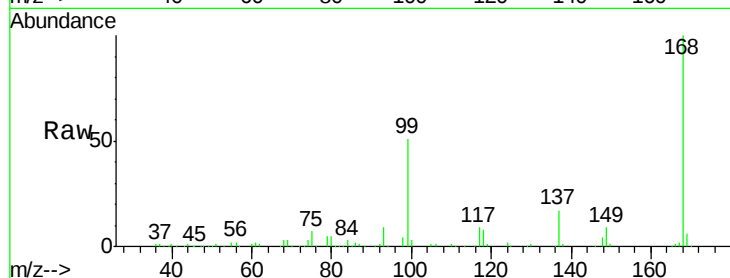
Tot Ion: 75 Resp: 14600

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

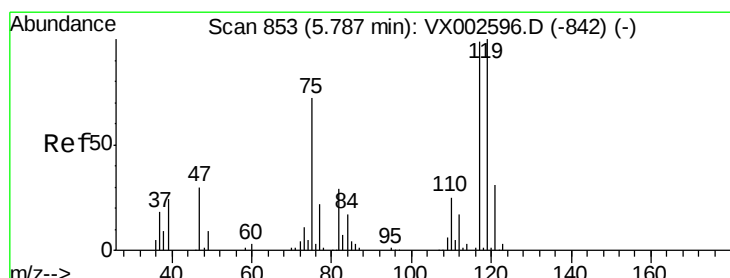
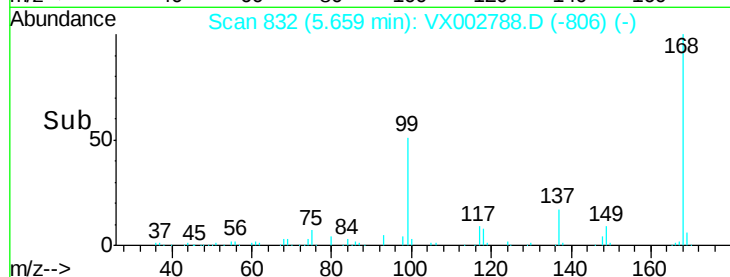
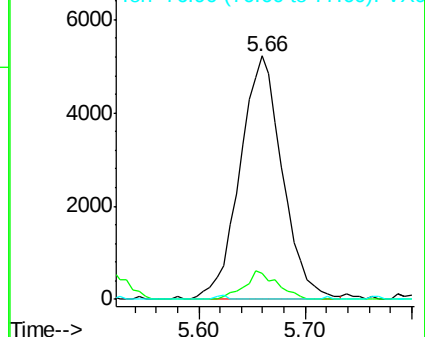
77 0.0 24.3 36.5#



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: 6.25 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.13 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

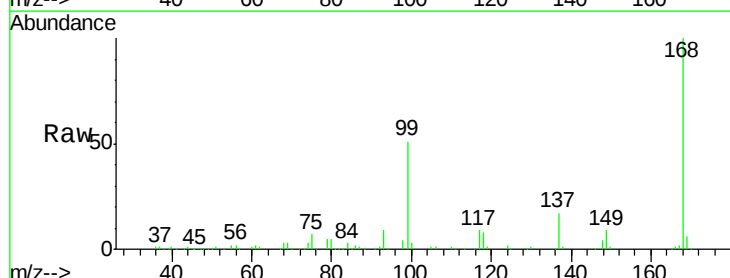
Tgt Ion: 117 Resp: 19231

Ion Ratio Lower Upper

117 100

119 7.7 77.4 116.0#

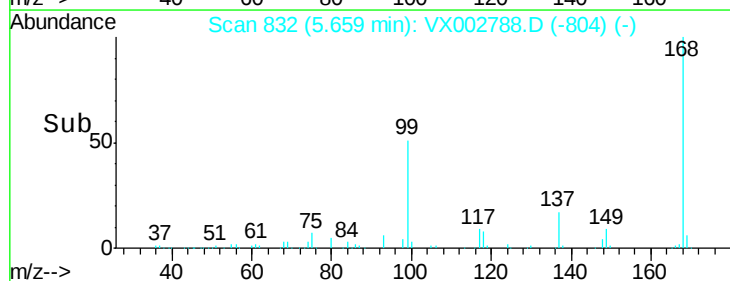
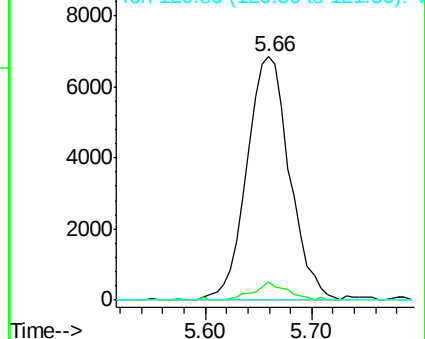
121 0.0 24.4 36.6#

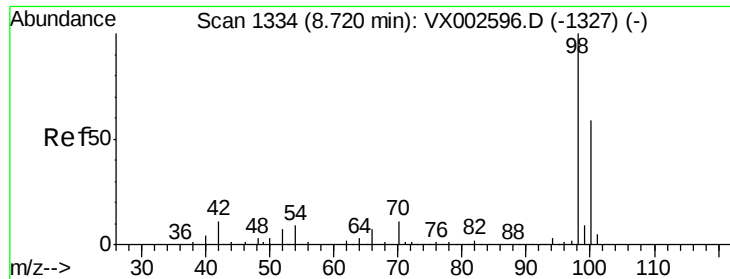


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 46.95 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampled :

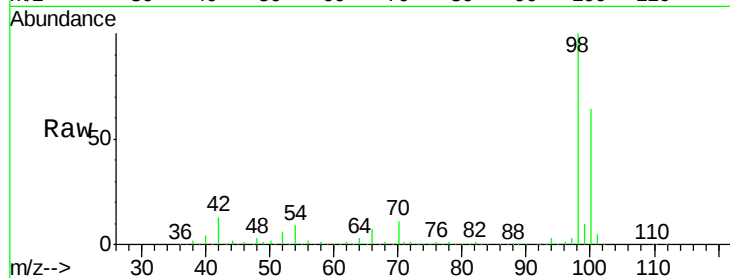
TP-13

Tot Ion: 98 Resp: 414125

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

250000

200000

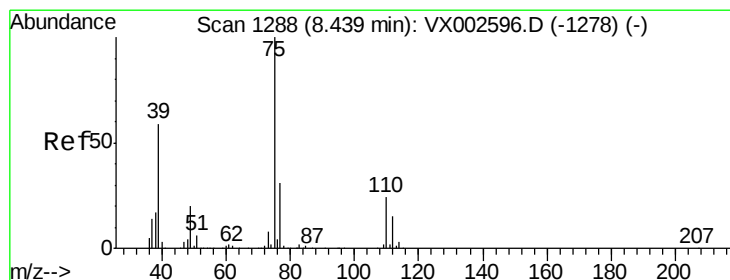
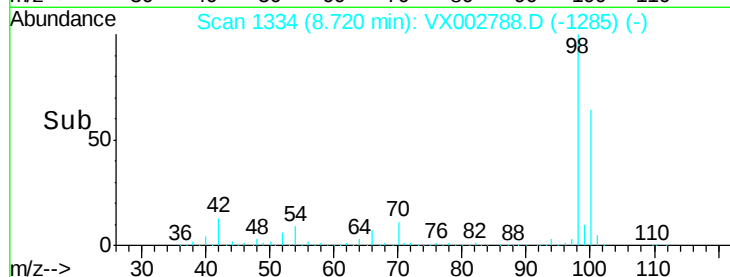
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002788.D

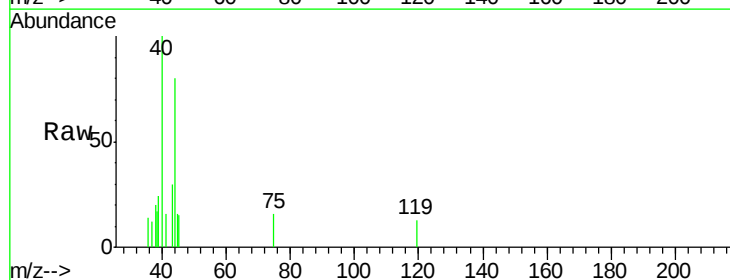
Acq: 21 Jun 2018 15:10

Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

8.44

100

80

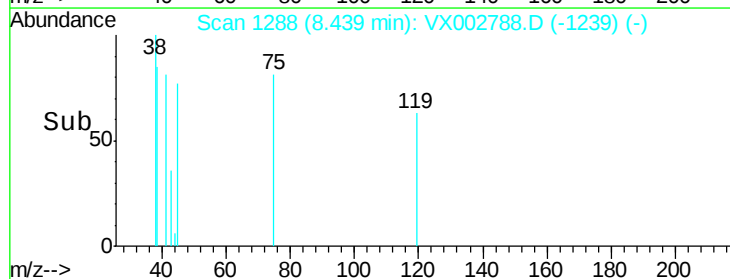
60

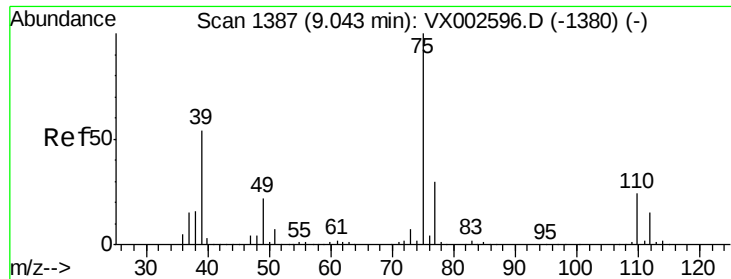
40

20

0

Time--> 8.40 8.42 8.44 8.46



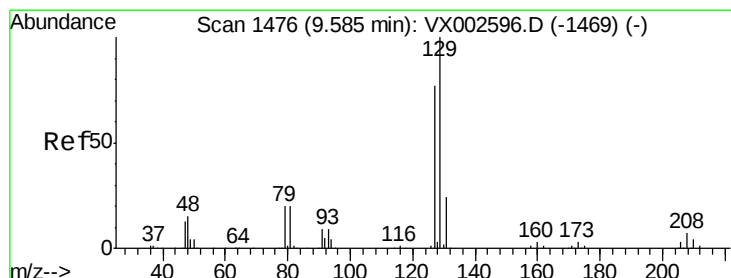
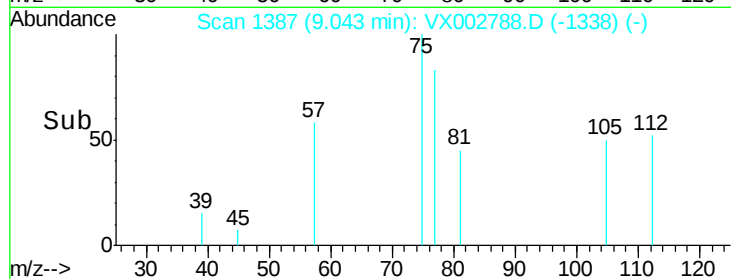
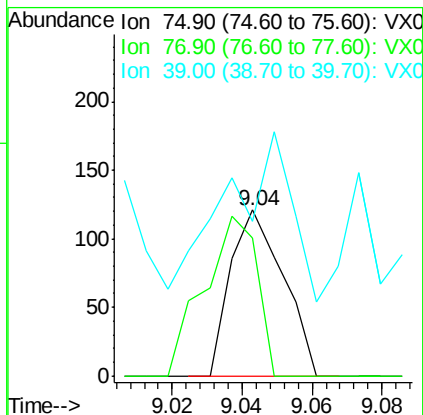
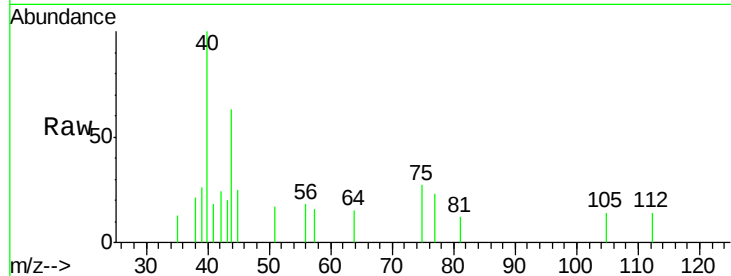


#54

cis-1,3-Dichloropropene  
Concen: 3.25 ug/l  
RT: 9.04 min Scan# 1387  
Delta R.T. 0.00 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Instrument :  
MSVOA\_X  
ClientSampled :  
TP-13

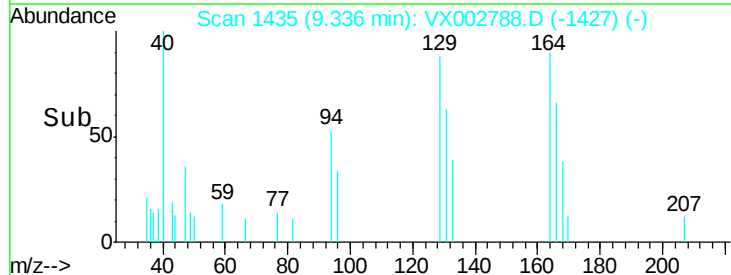
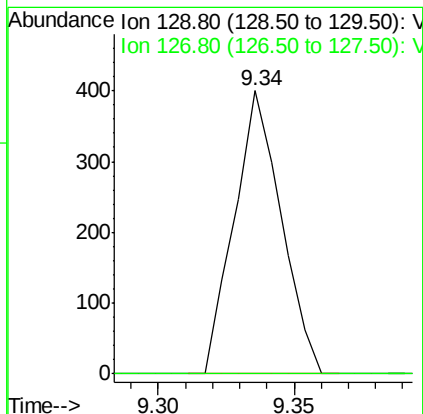
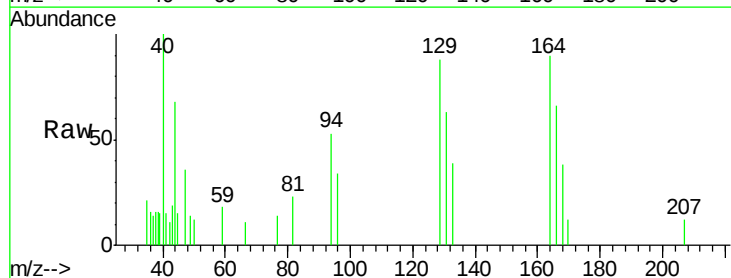
Tot Ion: 75 Resp: 127  
Ion Ratio Lower Upper  
75 100  
77 83.5 24.8 37.2#  
39 27.3 42.4 63.6#

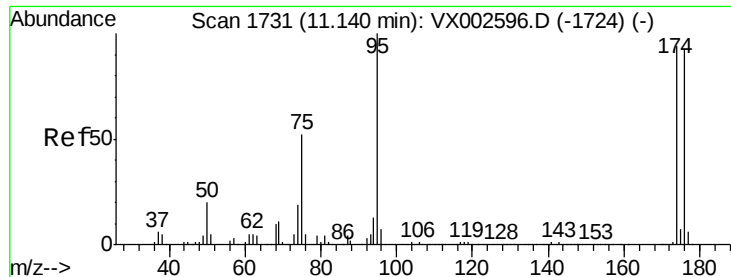


#60

Dibromochloromethane  
Concen: 3.92 ug/l  
RT: 9.34 min Scan# 1435  
Delta R.T. -0.25 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion:129 Resp: 478  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#

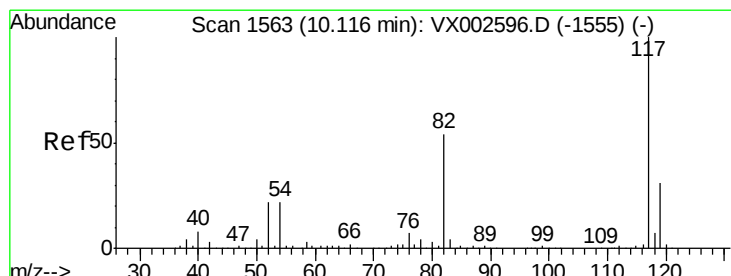
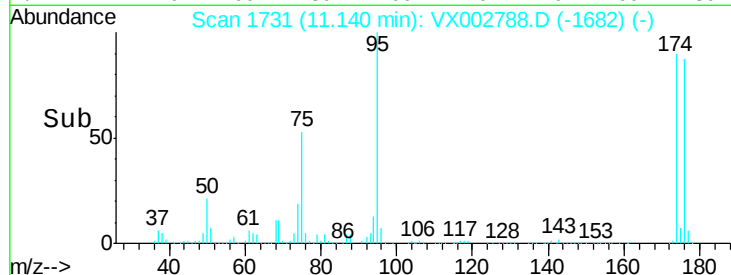
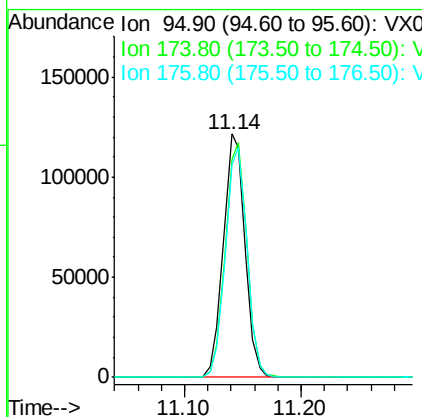
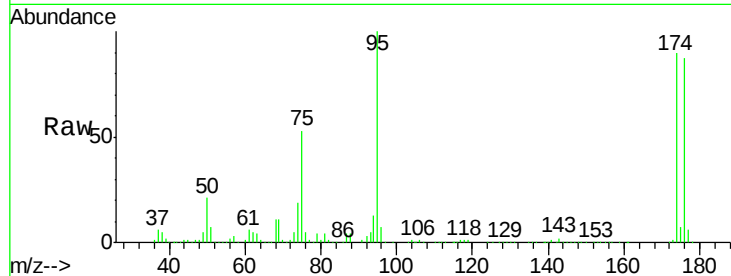




#62  
4-Bromofluorobenzene  
Concen: 46.64 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

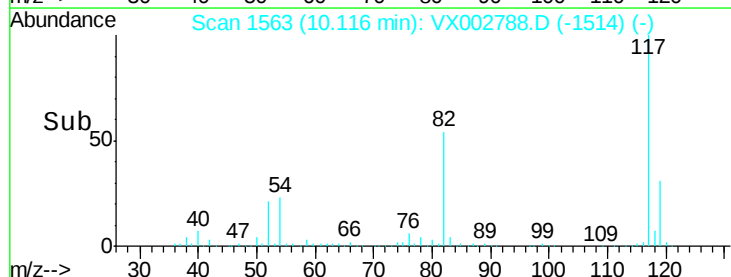
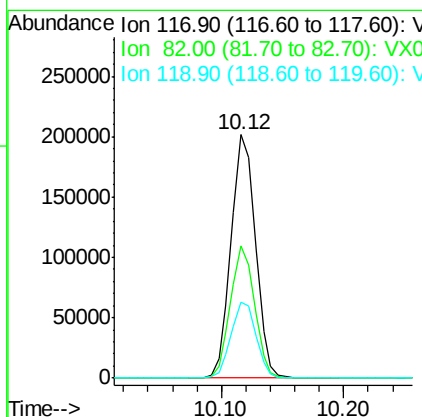
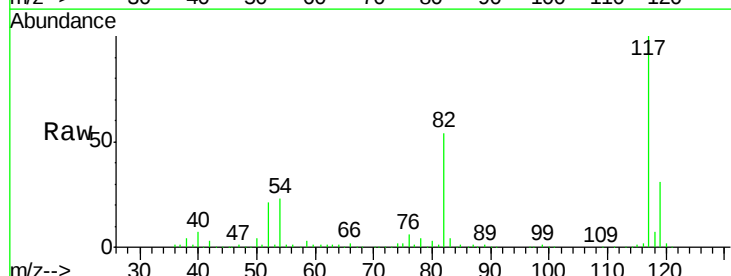
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-13

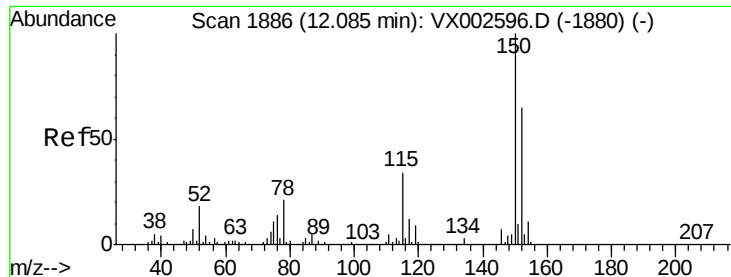
Tot Ion: 95 Resp: 155894  
Ion Ratio Lower Upper  
95 100  
174 96.9 0.0 187.4  
176 94.7 0.0 181.0



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 117 Resp: 278608  
Ion Ratio Lower Upper  
117 100  
82 54.4 45.0 67.4  
119 31.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampled :

TP-13

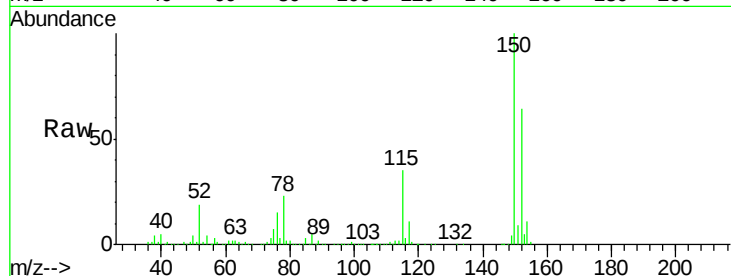
Tot Ion:152 Resp: 170702

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

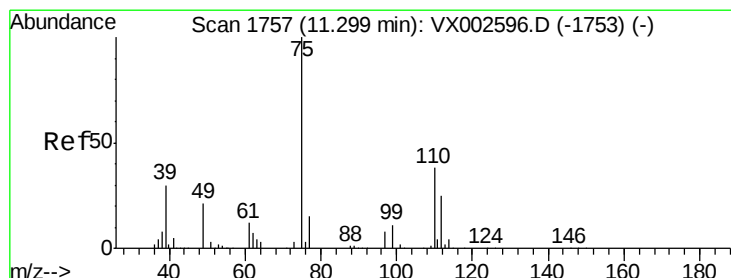
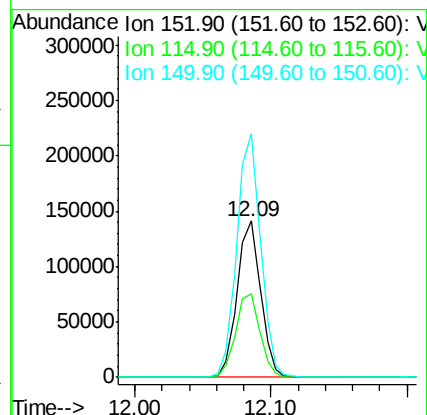
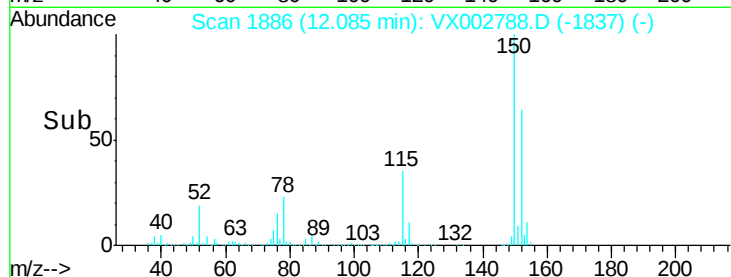
150 157.5 0.0 347.2



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: 25.51 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002788.D

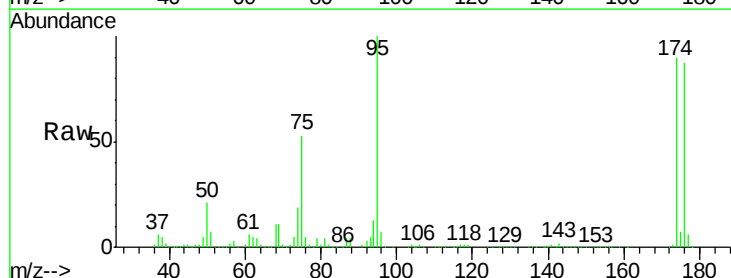
Acq: 21 Jun 2018 15:10

Tgt Ion: 75 Resp: 82162

Ion Ratio Lower Upper

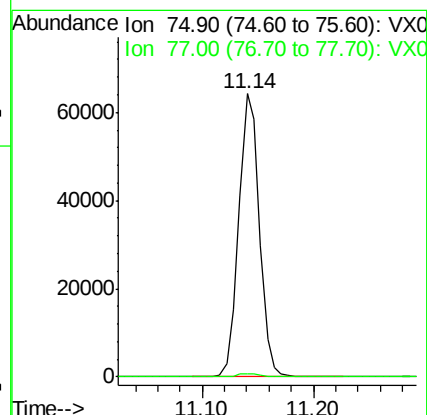
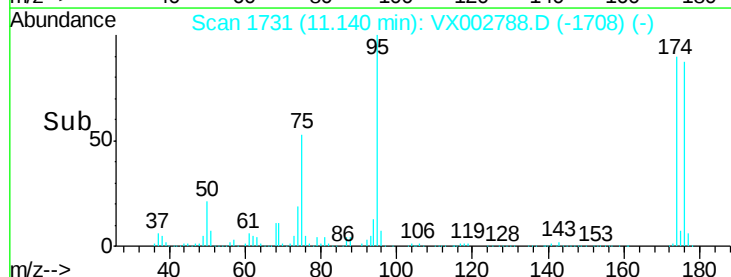
75 100

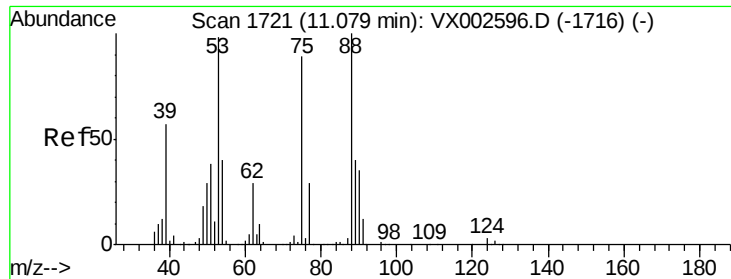
77 1.4 22.8 68.3#



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: 78.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampled :

TP-13

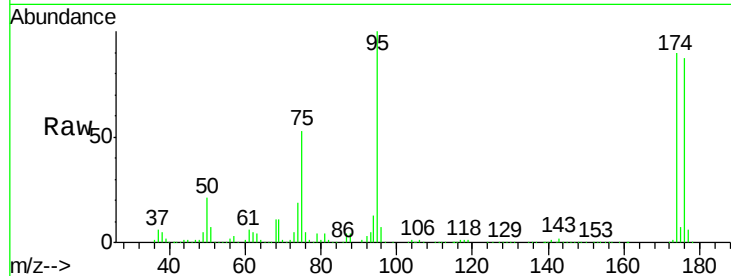
Tot Ion: 75 Resp: 82162

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

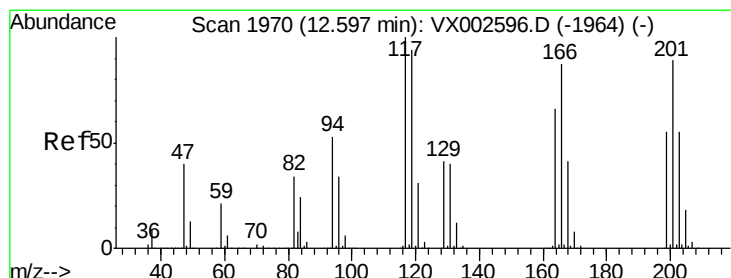
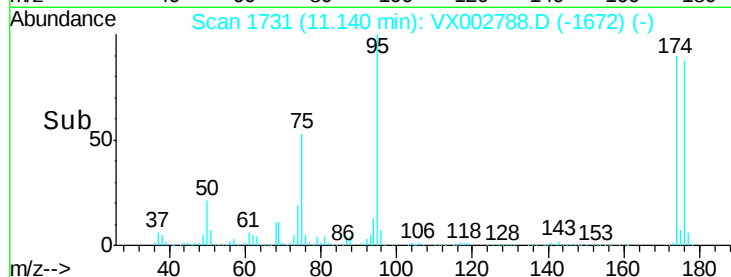
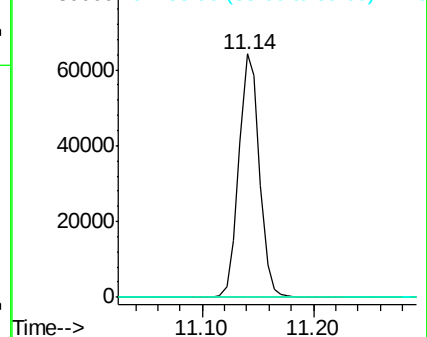
89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.65 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002788.D

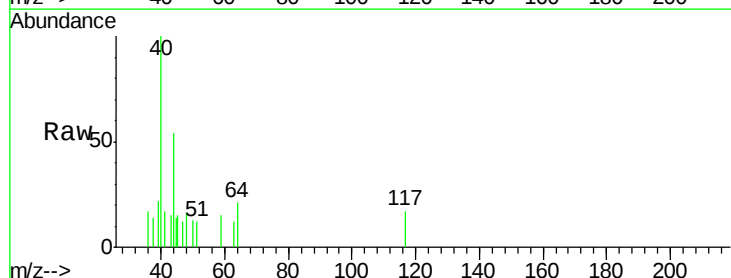
Acq: 21 Jun 2018 15:10

Tgt Ion:117 Resp: 48

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

