

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062519\  
 Data File : VX010435.D  
 Acq On : 25 Jun 2019 15:55  
 Operator : JC/SP  
 Sample : K3521-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SY-6

Quant Time: Jun 26 01:20:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 284411   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 436983   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 392554   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 178995   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 134172   | 50.32 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.64% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 132592   | 49.59 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.18%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 512159   | 50.07 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.14% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 170801   | 46.25 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.50%  |          |

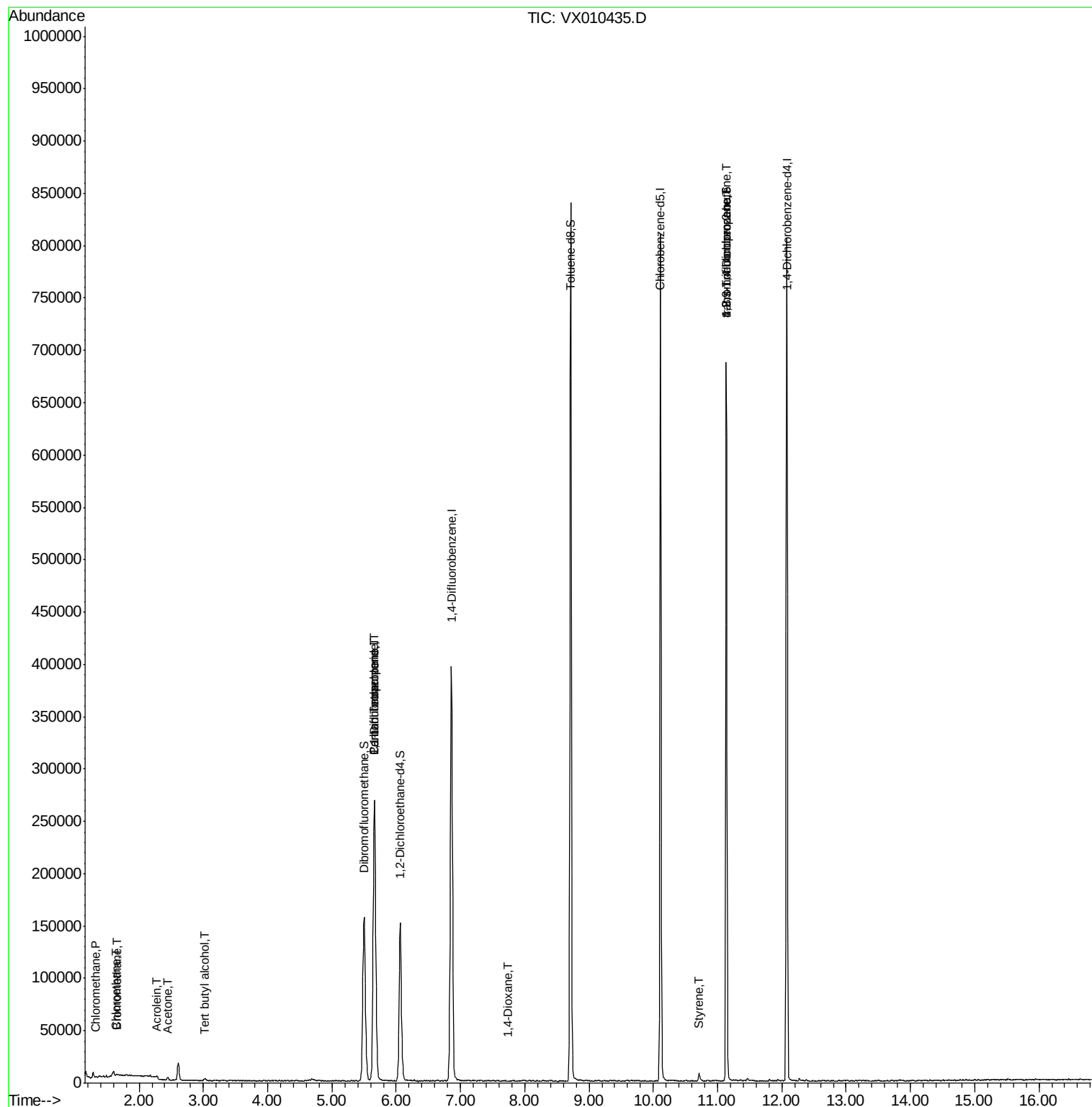
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 615      | 0.267  | ug/l # | 43     |
| 5) Bromomethane                | 1.65  | 94   | 490      | 0.399  | ug/l   | 84     |
| 6) Chloroethane                | 1.64  | 64   | 367      | 0.247  | ug/l # | 77     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 1279     | 1.833  | ug/l # | 83     |
| 13) Acrolein                   | 2.28  | 56   | 211      | 0.456  | ug/l # | 1      |
| 16) Acetone                    | 2.44  | 43   | 2812     | 2.104  | ug/l   | 99     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 17276    | 4.975  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 25024    | 6.655  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 21       | 0.265  | ug/l # | 1      |
| 70) Styrene                    | 10.71 | 104  | 3296     | 0.383  | ug/l   | 92     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 82002    | 25.140 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 82002    | 58.650 | ug/l # | 16     |

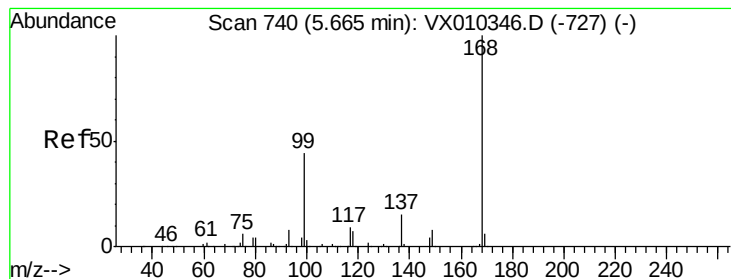
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062519\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
SY-6

Quant Time: Jun 26 01:20:48 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampled :

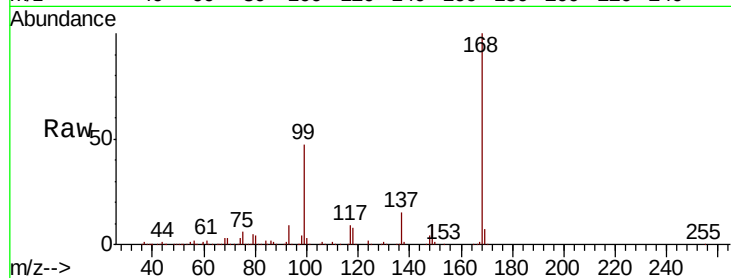
SY-6

Tot Ion:168 Resp: 284411

Ion Ratio Lower Upper

168 100

99 47.0 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

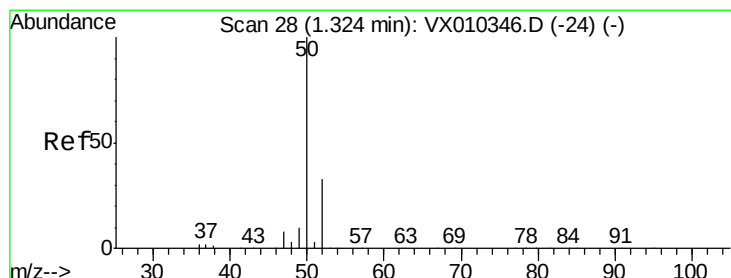
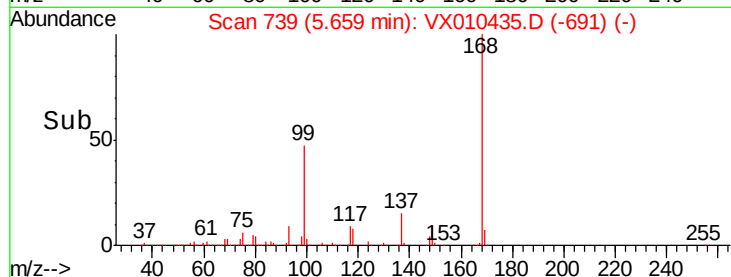
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010435.D

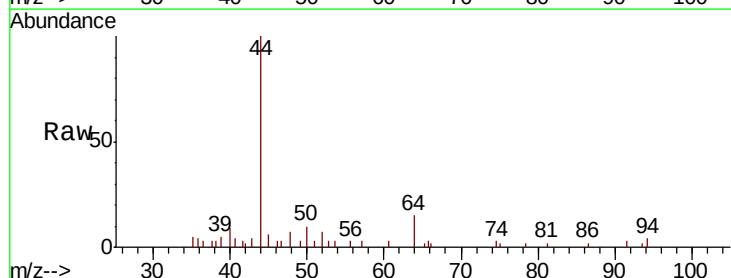
Acq: 25 Jun 2019 15:55

Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

50 100

52 65.1 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

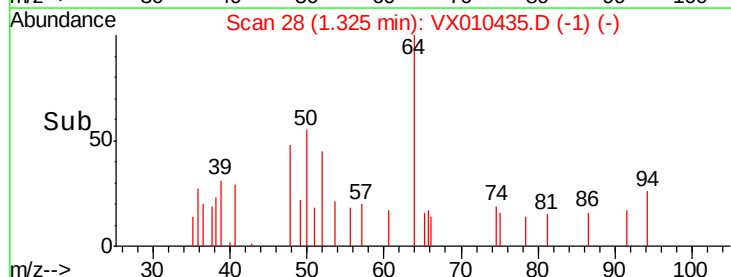
150

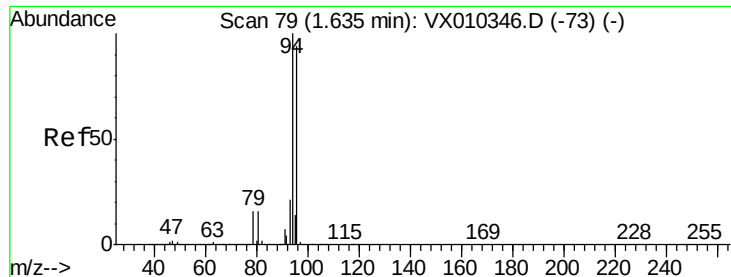
100

50

0

Time-->





#5

Bromomethane

Concen: 0.399 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampled :

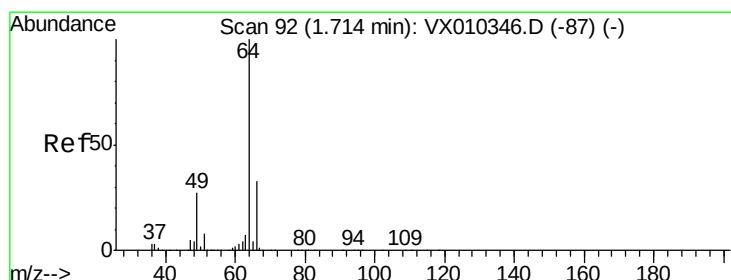
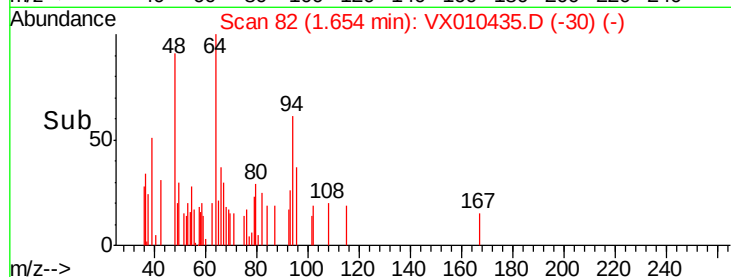
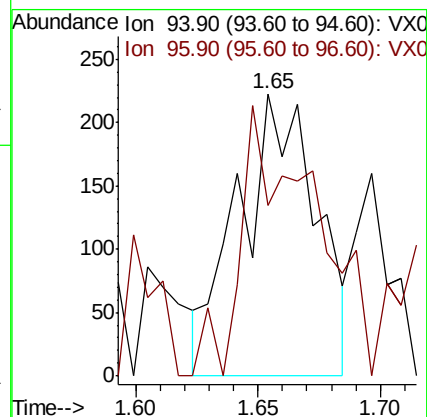
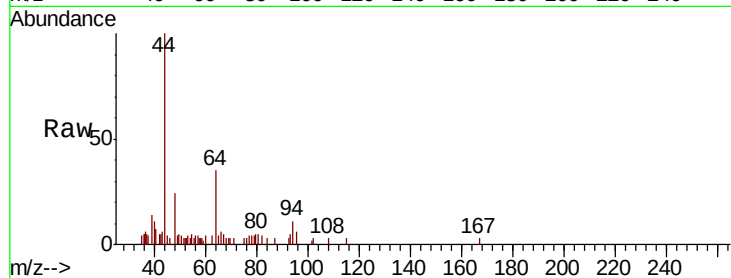
SY-6

Tot Ion: 94 Resp: 490

Ion Ratio Lower Upper

94 100

96 78.9 75.5 113.3



#6

Chloroethane

Concen: 0.247 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX010435.D

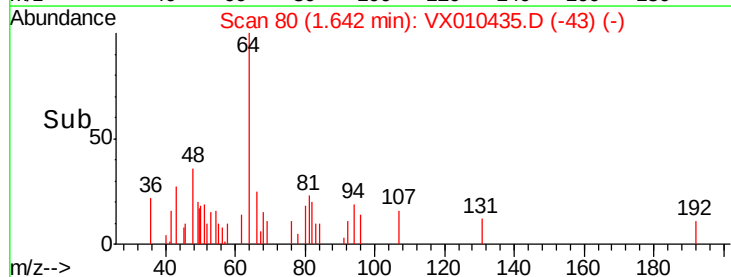
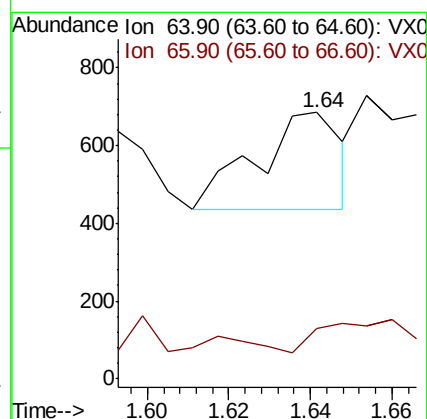
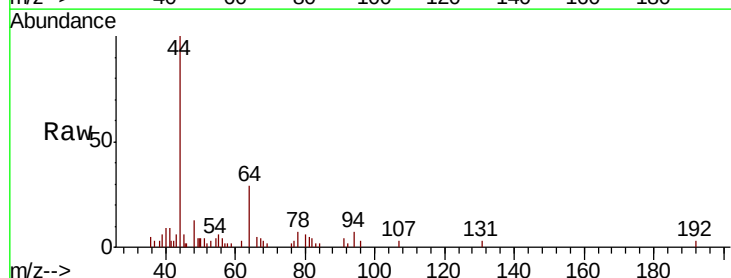
Acq: 25 Jun 2019 15:55

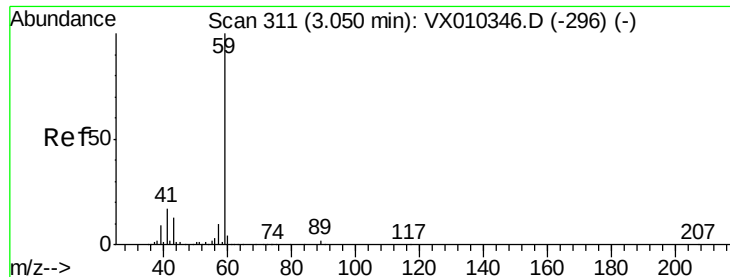
Tgt Ion: 64 Resp: 367

Ion Ratio Lower Upper

64 100

66 20.4 26.6 40.0#



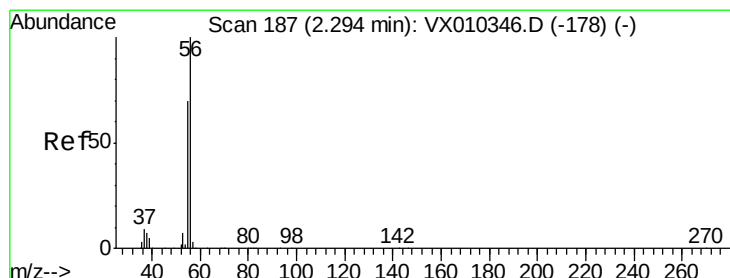
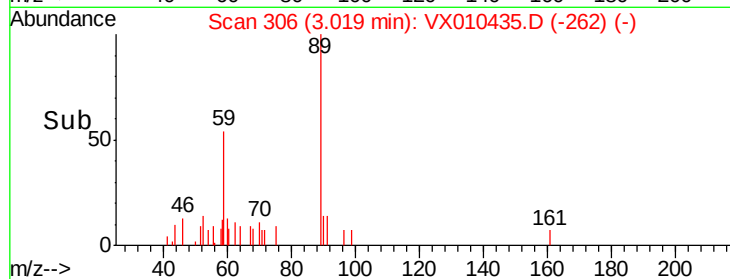
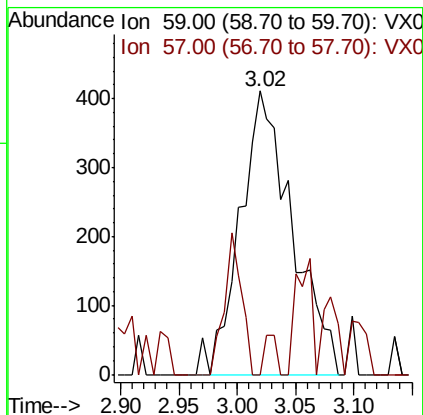
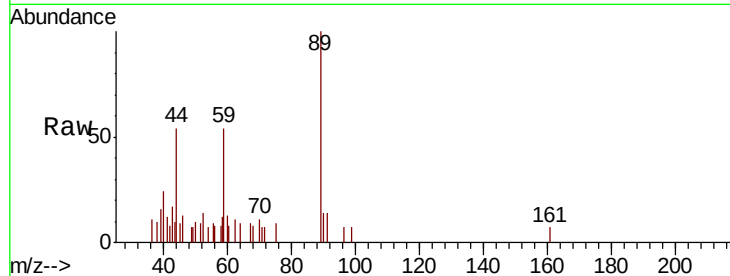


#11

Tert butyl alcohol  
 Concen: 1.833 ug/l  
 RT: 3.02 min Scan# 306  
 Delta R.T. -0.03 min  
 Lab File: VX010435.D  
 Acq: 25 Jun 2019 15:55

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 SY-6

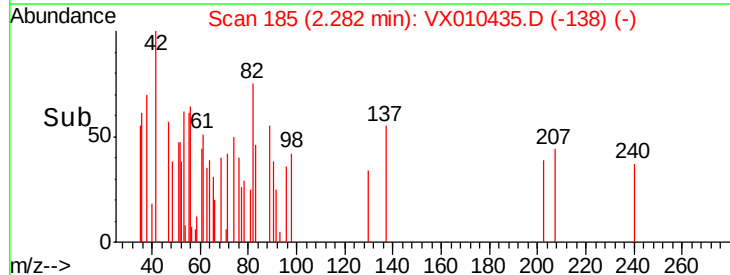
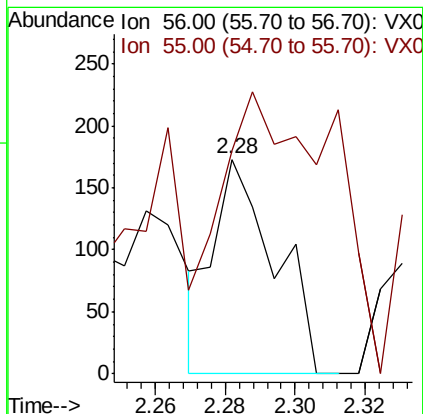
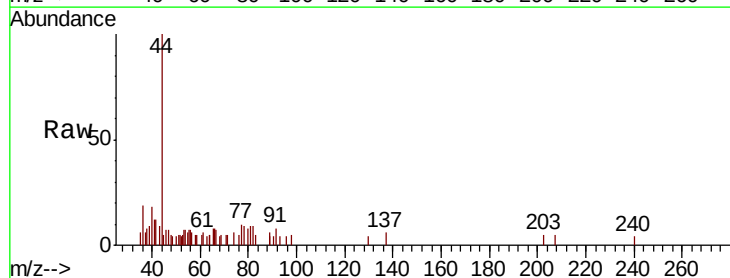
Tot Ion: 59 Resp: 1279  
 Ion Ratio Lower Upper  
 59 100  
 57 3.2 7.7 11.5#

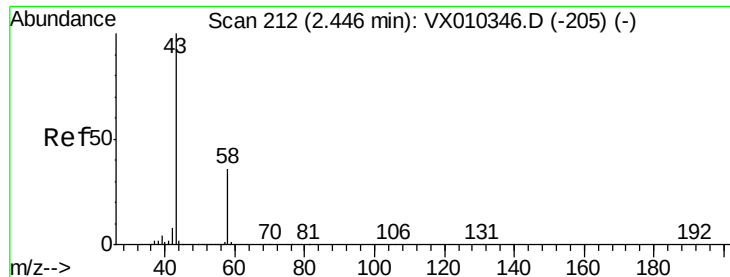


#13

Acrolein  
 Concen: 0.456 ug/l  
 RT: 2.28 min Scan# 185  
 Delta R.T. -0.01 min  
 Lab File: VX010435.D  
 Acq: 25 Jun 2019 15:55

Tgt Ion: 56 Resp: 211  
 Ion Ratio Lower Upper  
 56 100  
 55 238.4 56.9 85.3#





#16

Acetone

Concen: 2.104 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampleId :

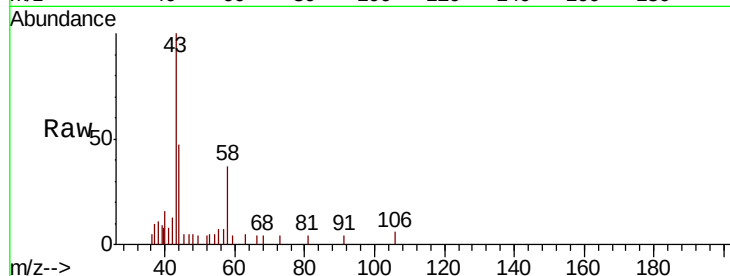
SY-6

Tot Ion: 43 Resp: 2812

Ion Ratio Lower Upper

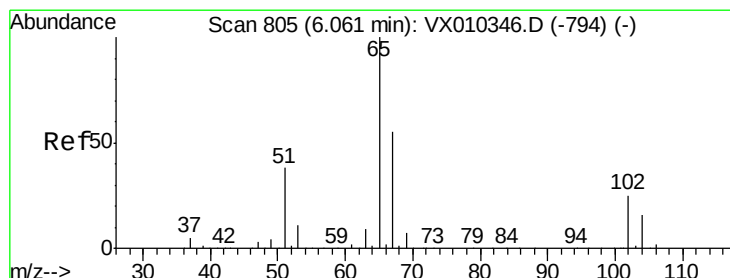
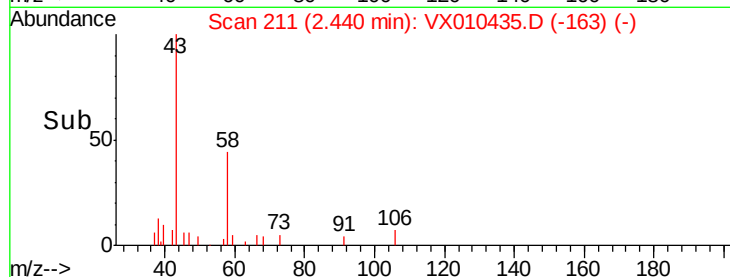
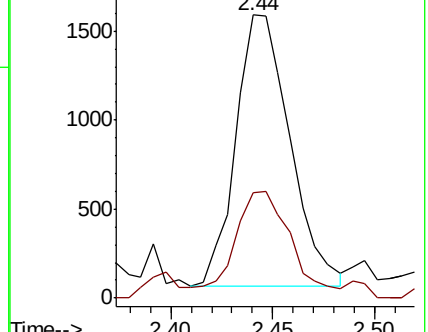
43 100

58 35.6 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.315 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010435.D

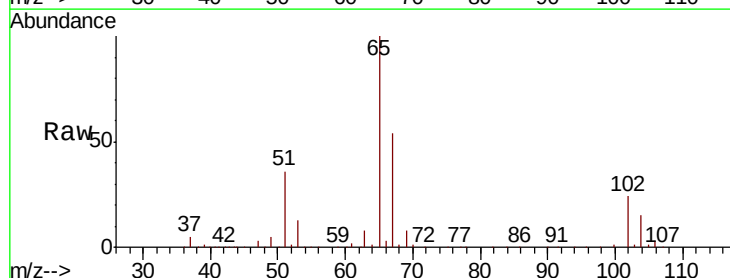
Acq: 25 Jun 2019 15:55

Tgt Ion: 65 Resp: 134172

Ion Ratio Lower Upper

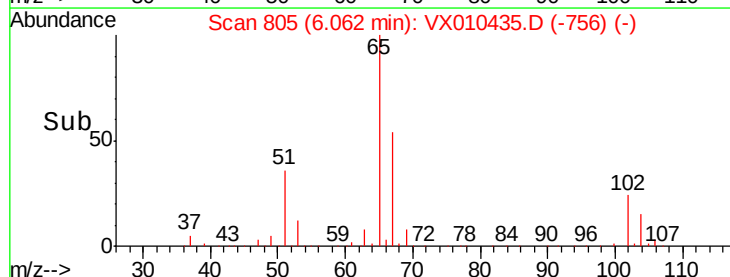
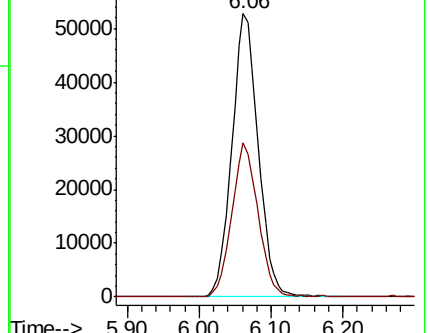
65 100

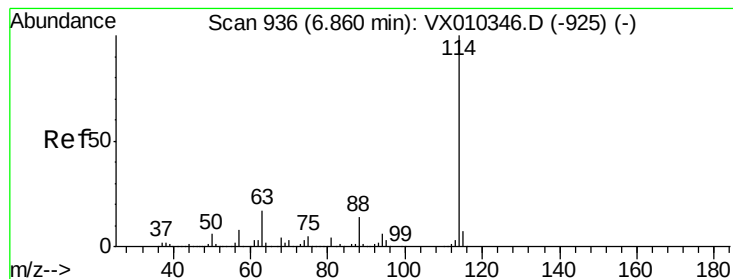
67 54.2 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampleId :

SY-6

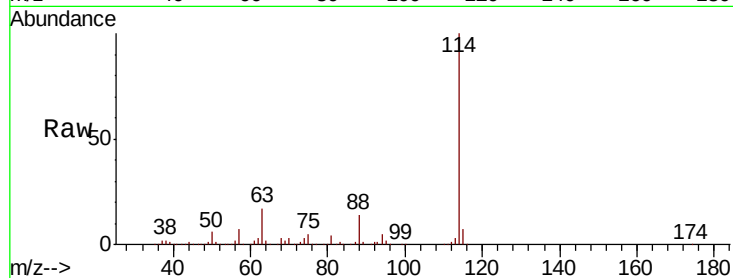
Tot Ion:114 Resp: 436983

Ion Ratio Lower Upper

114 100

63 16.6 0.0 33.8

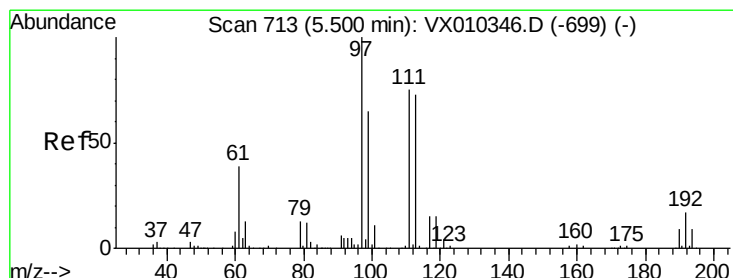
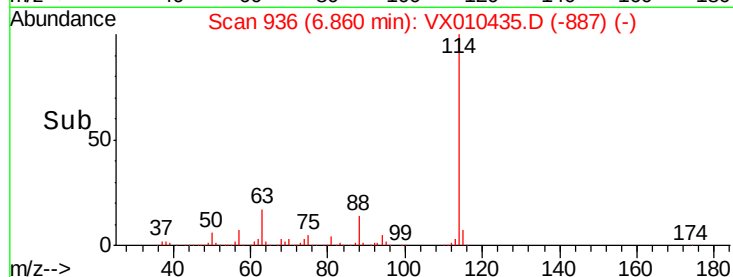
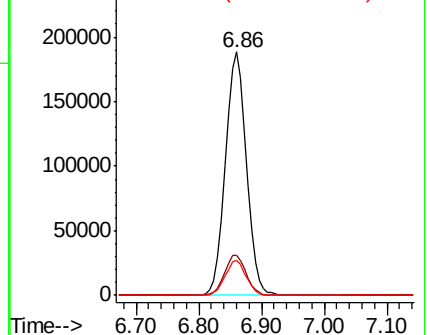
88 14.3 0.0 27.6



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: 49.593 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

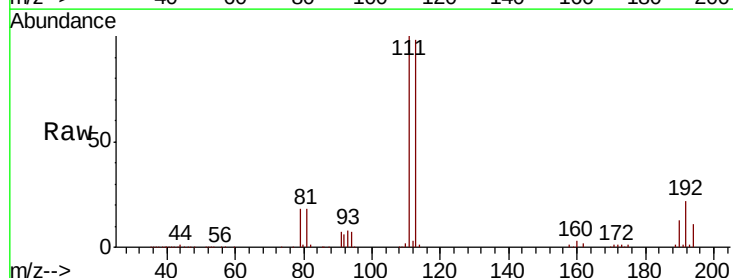
Tgt Ion:113 Resp: 132592

Ion Ratio Lower Upper

113 100

111 101.9 81.2 121.8

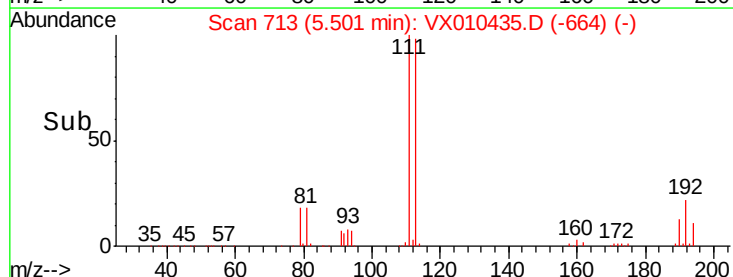
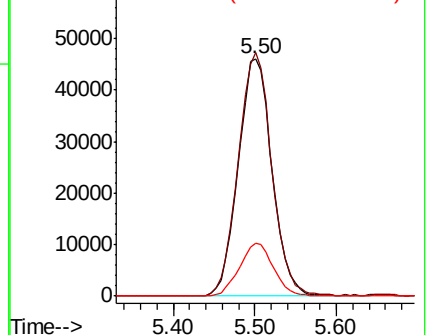
192 22.4 18.6 27.8

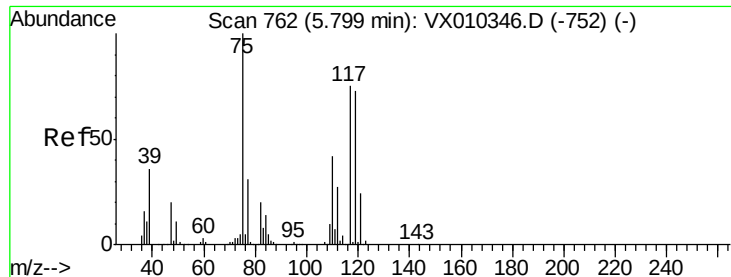


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.975 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampleId :

SY-6

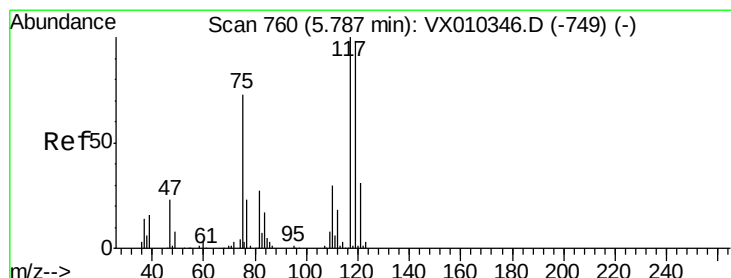
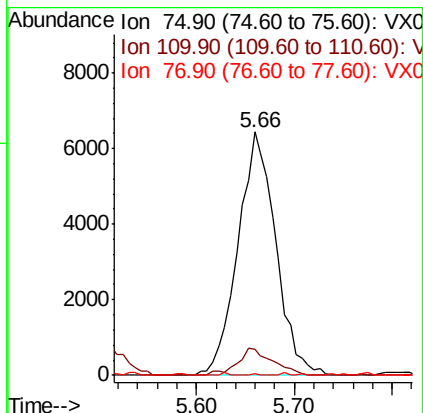
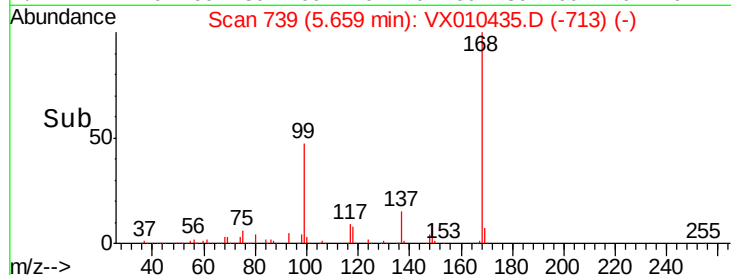
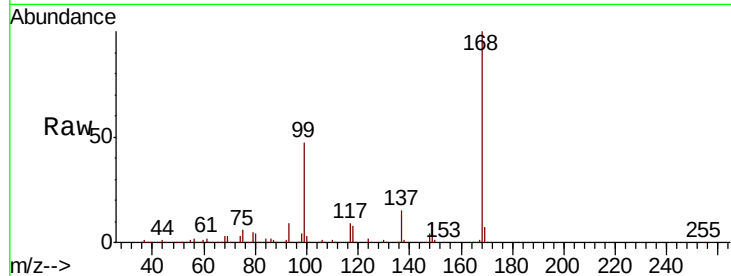
Tot Ion: 75 Resp: 17276

Ion Ratio Lower Upper

75 100

110 10.5 20.8 62.2#

77 0.1 25.4 38.0#



#38

Carbon Tetrachloride

Concen: 6.655 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

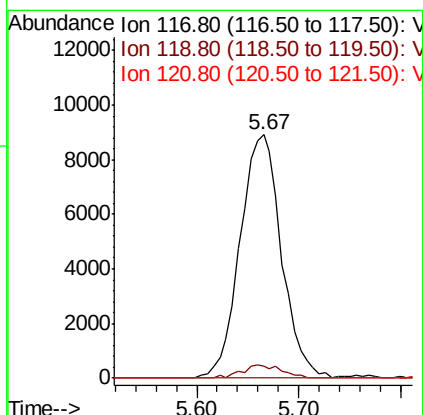
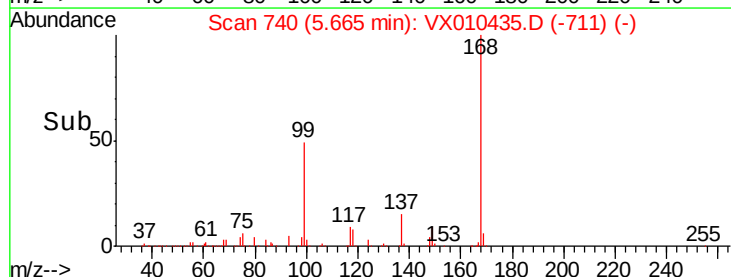
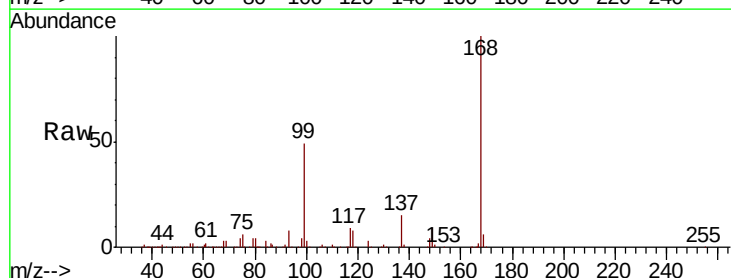
Tgt Ion:117 Resp: 25024

Ion Ratio Lower Upper

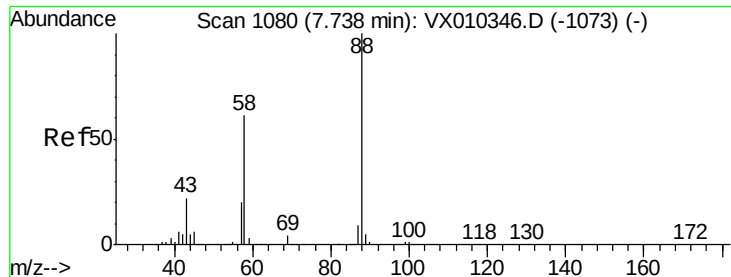
117 100

119 5.0 78.2 117.4#

121 0.0 24.7 37.1#







#49

1,4-Dioxane

Concen: 0.265 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampled :

SY-6

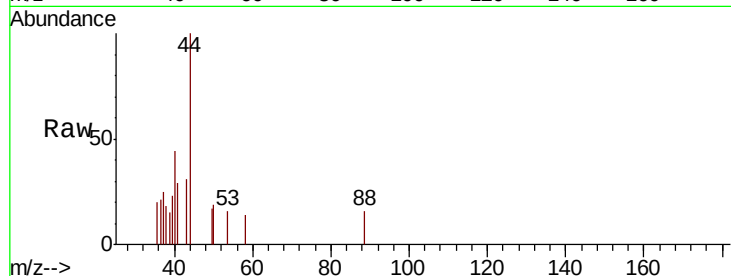
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 1352.4 20.2 30.2#

58 561.9 49.5 74.3#



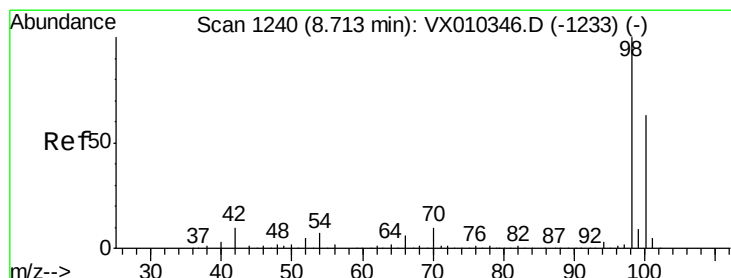
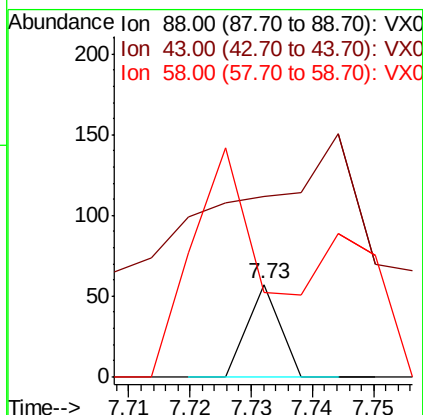
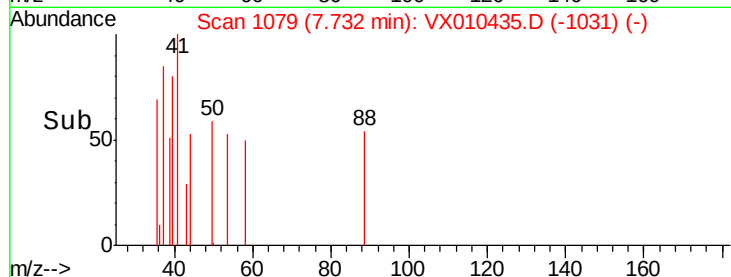
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.73

7.71 7.72 7.73 7.74 7.75



#50

Toluene-d8

Concen: 50.071 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010435.D

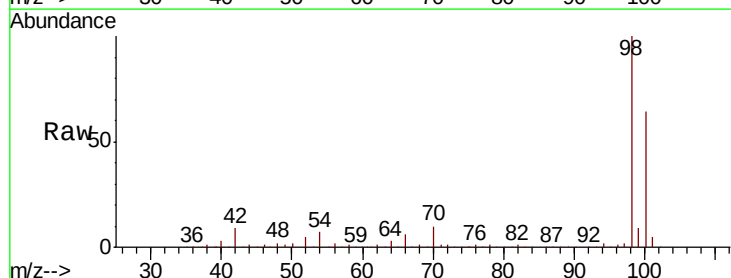
Acq: 25 Jun 2019 15:55

Tgt Ion: 98 Resp: 512159

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4

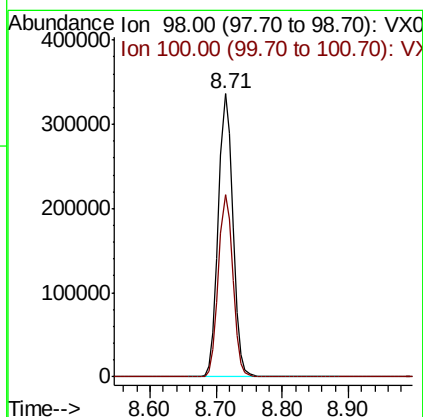
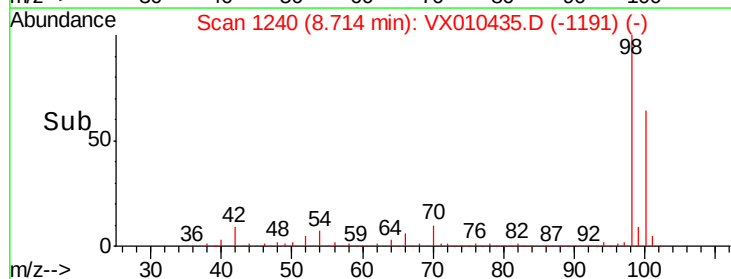


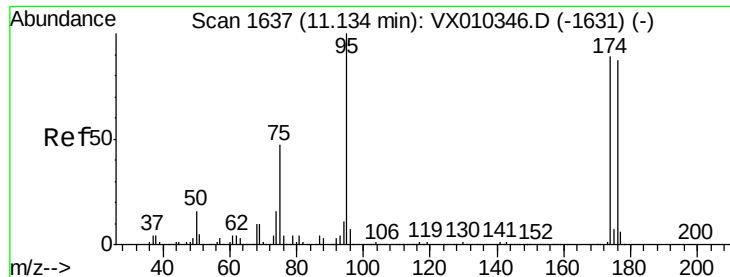
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

8.60 8.70 8.80 8.90





#62

4-Bromofluorobenzene

Concen: 46.252 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampled :

SY-6

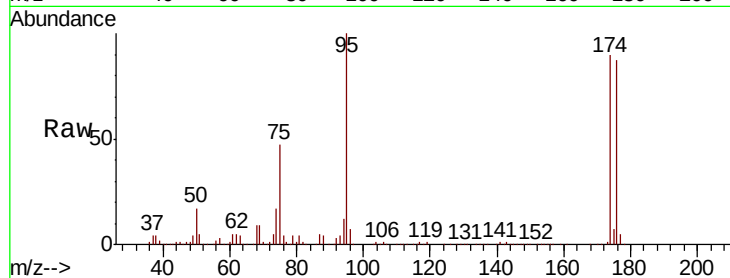
Tot Ion: 95 Resp: 170801

Ion Ratio Lower Upper

95 100

174 94.6 0.0 187.6

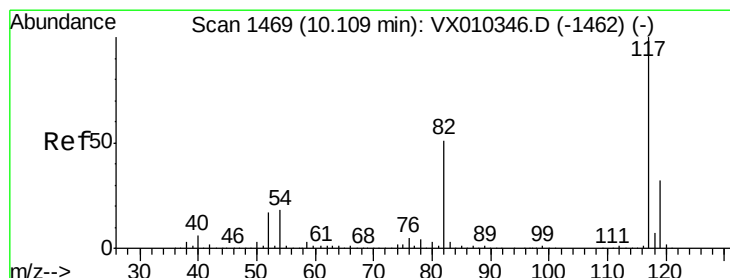
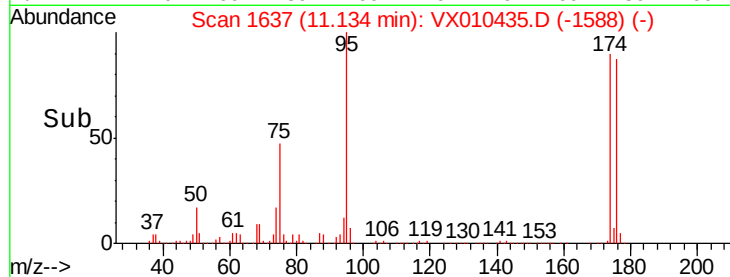
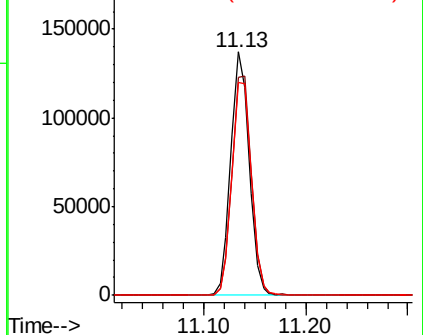
176 92.3 0.0 184.0



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

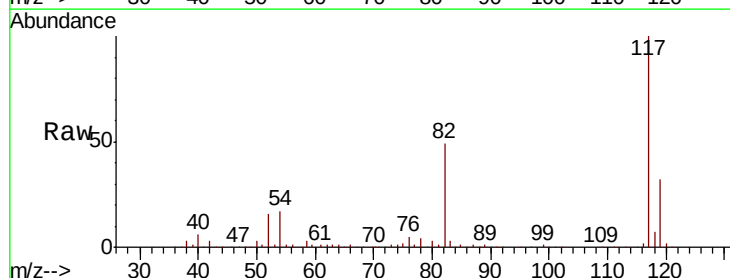
Tgt Ion: 117 Resp: 392554

Ion Ratio Lower Upper

117 100

82 49.4 41.2 61.8

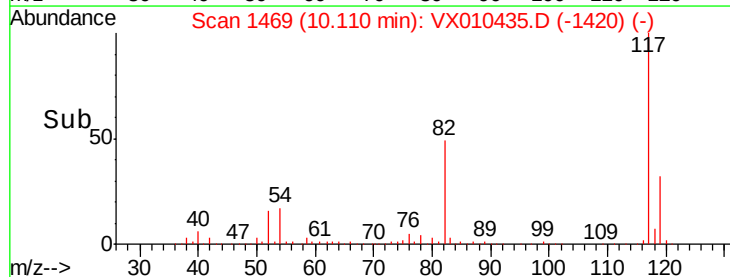
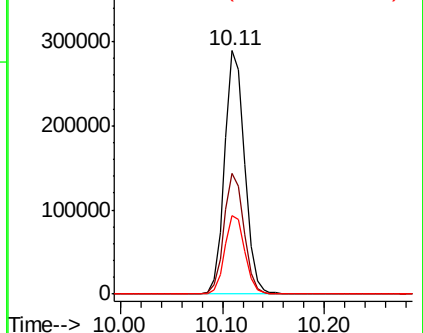
119 32.2 25.5 38.3

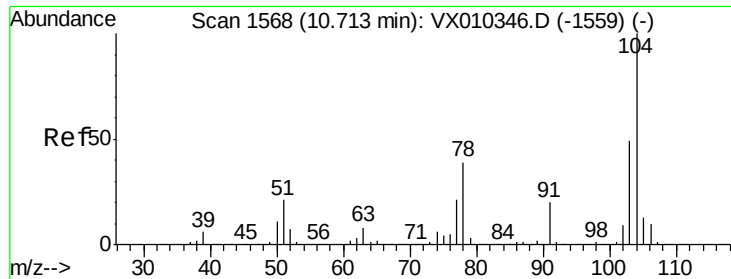


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

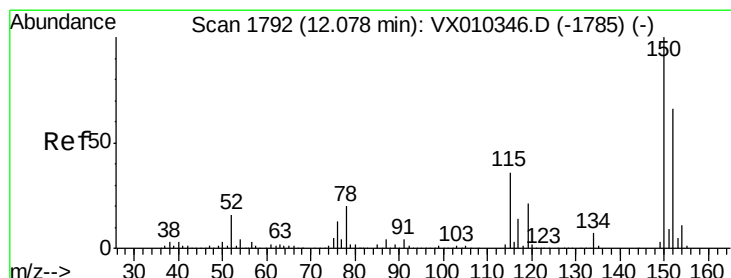
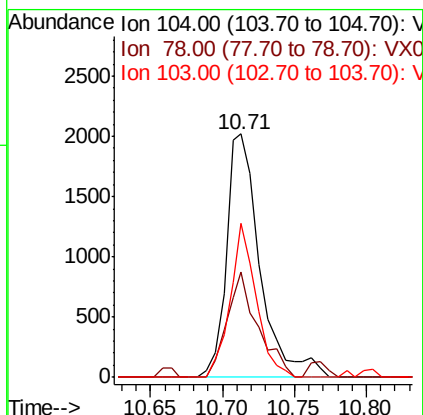
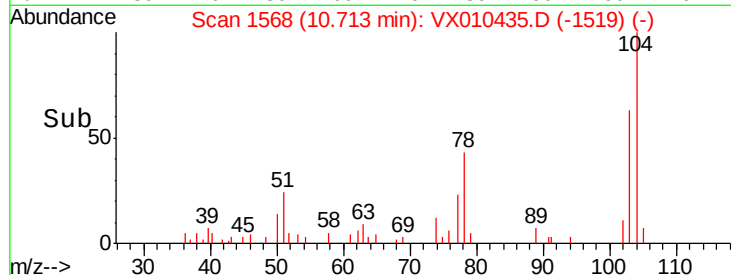
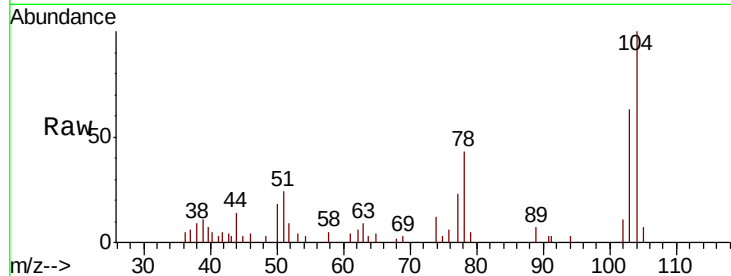




#70  
Stvrene  
Concen: 0.383 ug/l  
RT: 10.71 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VX010435.D  
Acq: 25 Jun 2019 15:55

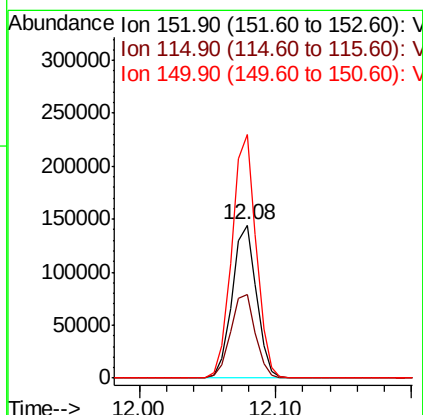
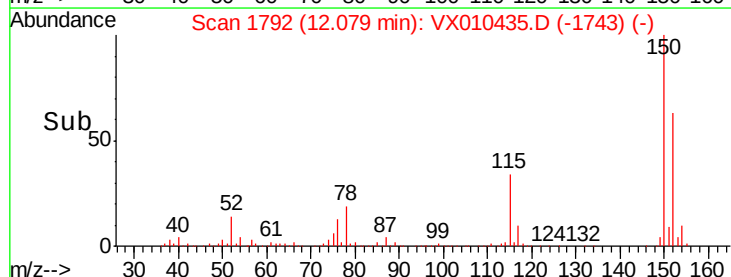
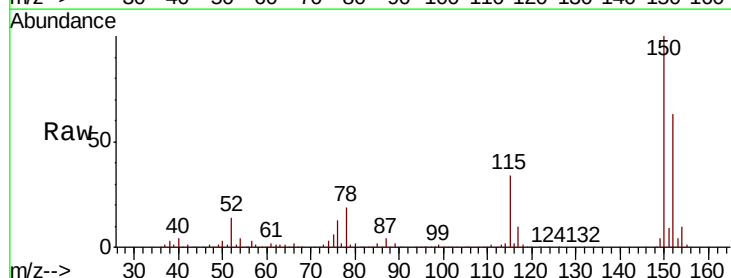
Instrument :  
MSVOA\_X  
ClientSampled :  
SY-6

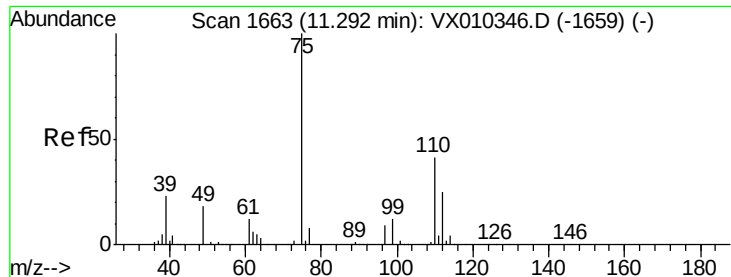
Tot Ion:104 Resp: 3296  
Ion Ratio Lower Upper  
104 100  
78 39.8 36.2 54.2  
103 49.1 44.2 66.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010435.D  
Acq: 25 Jun 2019 15:55

Tgt Ion:152 Resp: 178995  
Ion Ratio Lower Upper  
152 100  
115 56.4 38.6 115.7  
150 158.8 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 25.140 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Instrument :

MSVOA\_X

ClientSampled :

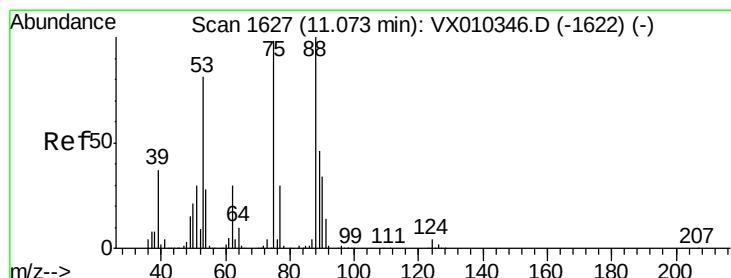
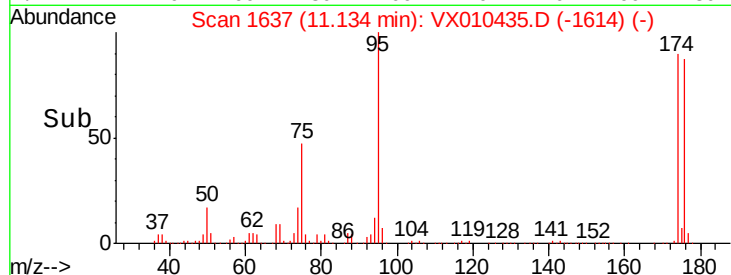
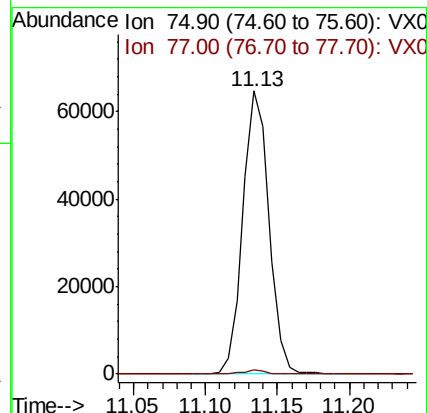
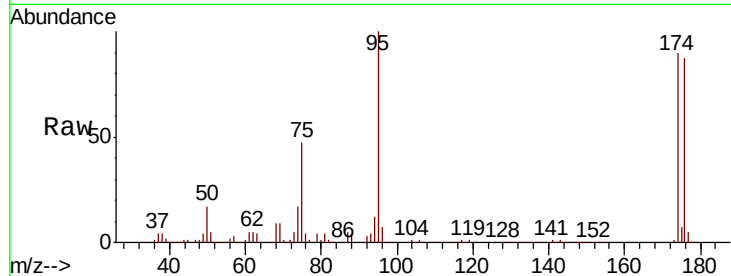
SY-6

Tot Ion: 75 Resp: 82002

Ion Ratio Lower Upper

75 100

77 1.3 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.650 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010435.D

Acq: 25 Jun 2019 15:55

Tgt Ion: 75 Resp: 82002

Ion Ratio Lower Upper

75 100

53 0.0 66.1 99.1#

89 0.1 37.8 56.6#

