

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100118\  
 Data File : VX004866.D  
 Acq On : 01 Oct 2018 13:14  
 Operator : JC/MD  
 Sample : J5135-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-TW502-3438

Quant Time: Oct 02 02:38:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 26 14:17:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 223105   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 363600   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 356432   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 191728   | 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   | 174213   | 54.66 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 146006   | 47.38 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 526240   | 51.37 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 184865   | 50.09 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |

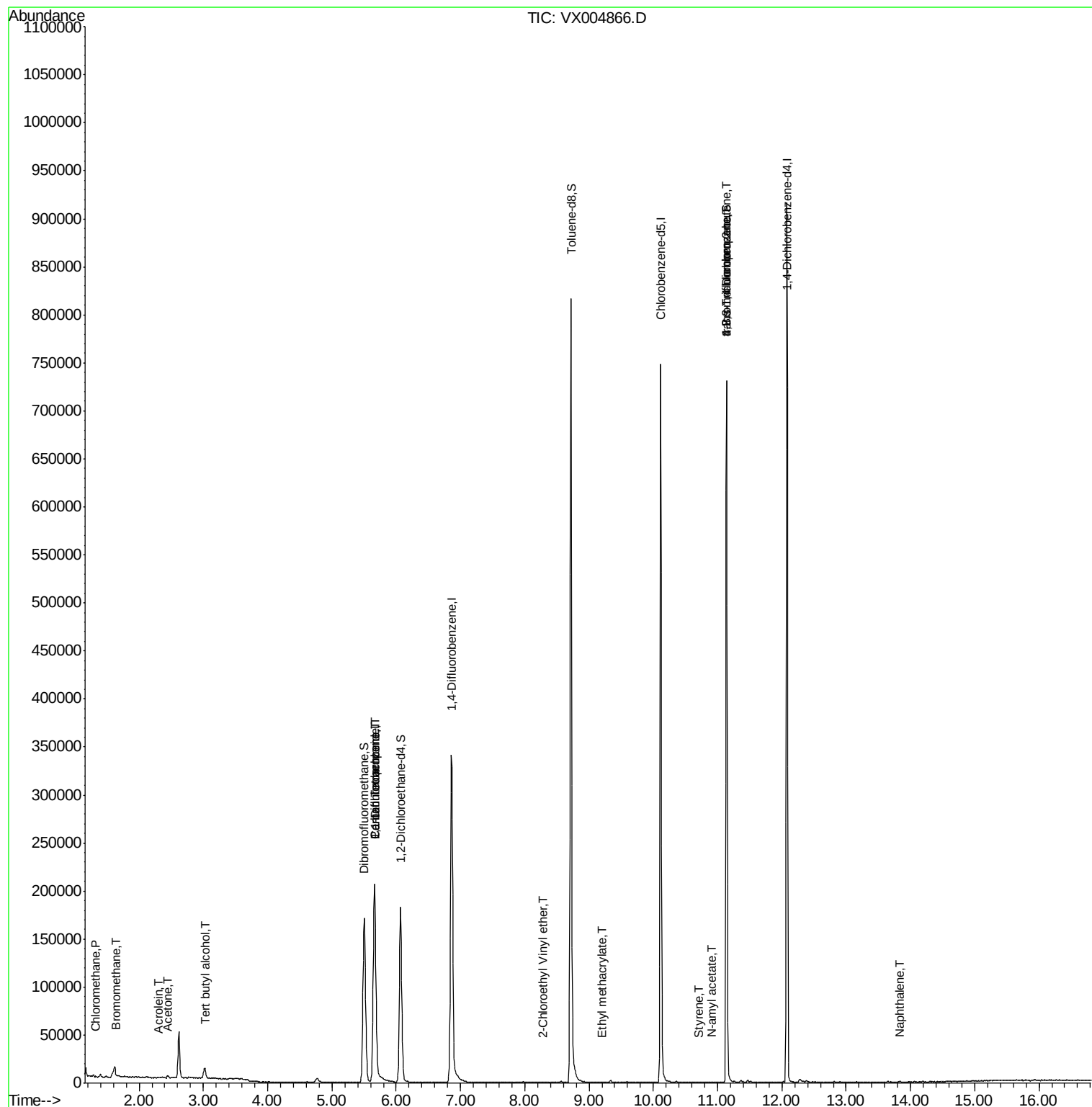
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 762      | 0.206     | ug/l # | 84     |
| 5) Bromomethane                | 1.64  | 94   | 906      | 0.441     | ug/l # | 63     |
| 6) Chloroethane                | 1.73  | 64   | 322      | Below Cal | #      | 44     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 6859     | 7.697     | ug/l # | 79     |
| 13) Acrolein                   | 2.29  | 56   | 164      | 0.259     | ug/l   | 94     |
| 16) Acetone                    | 2.44  | 43   | 2566     | 1.379     | ug/l   | 94     |
| 20) Methylene Chloride         | 2.85  | 84   | 156      | Below Cal | #      | 46     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 15581    | 3.706     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20477    | 4.633     | ug/l # | 16     |
| 56) Ethyl methacrylate         | 9.20  | 69   | 21       | 2.866     | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether  | 8.28  | 63   | 20       | 14.249    | ug/l # | 45     |
| 70) Styrene                    | 10.71 | 104  | 89       | 2.149     | ug/l # | 66     |
| 74) N-amyl acetate             | 10.91 | 43   | 77       | 1.759     | ug/l # | 49     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 92103    | 21.433    | ug/l # | 37     |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 218      | Below Cal |        | 100    |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 92103    | 58.119    | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 323      | Below Cal | #      | 51     |
| 95) Naphthalene                | 13.83 | 128  | 550      | 0.753     | ug/l # | 91     |

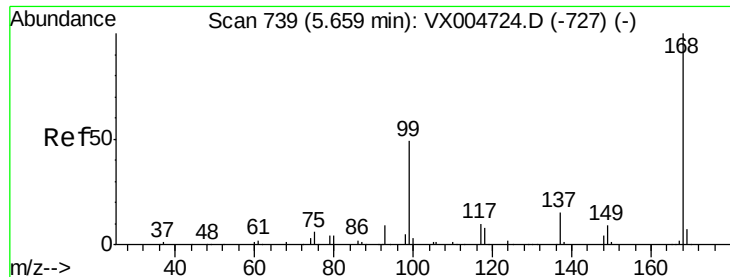
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Sep 26 14:17:02 2018  
Response via : Initial Calibration

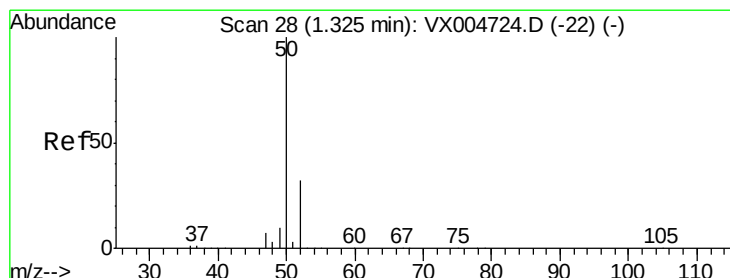
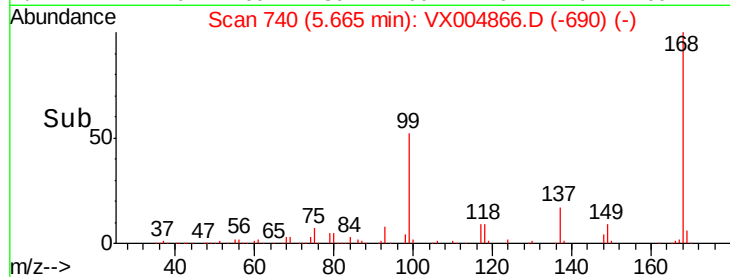
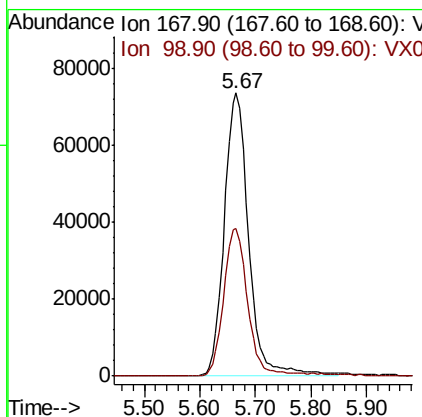
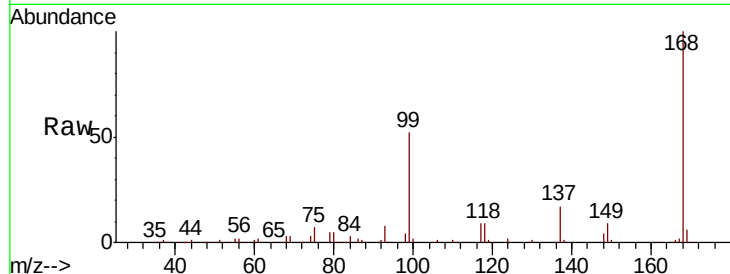




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.01 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

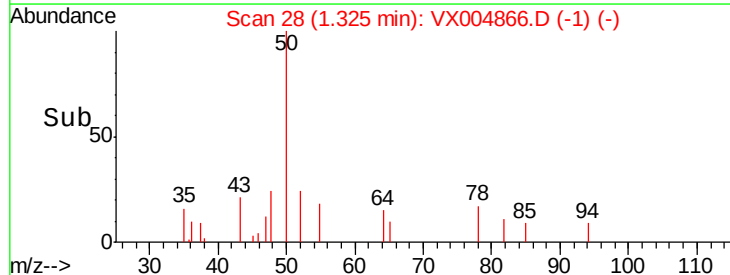
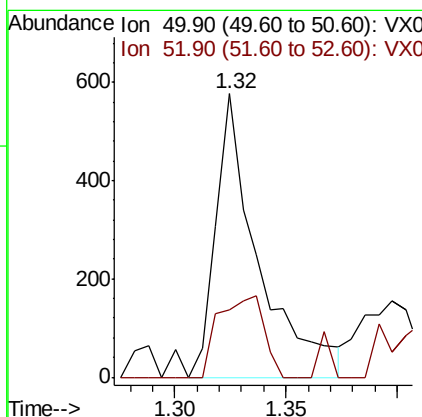
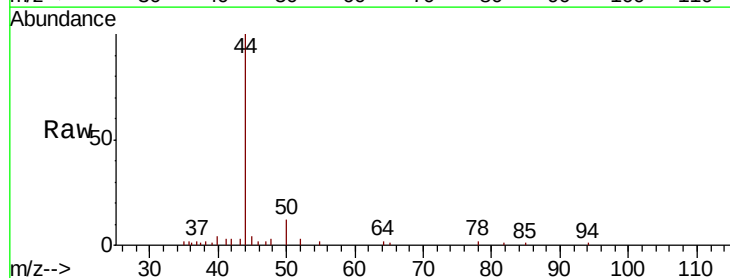
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW502-3438

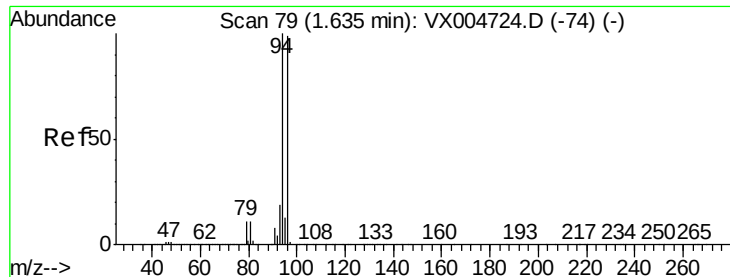
Tot Ion:168 Resp: 223105  
Ion Ratio Lower Upper  
168 100  
99 52.0 39.9 59.9



#3  
Chloromethane  
Concen: 0.206 ug/l  
RT: 1.32 min Scan# 28  
Delta R.T. 0.00 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

Tgt Ion: 50 Resp: 762  
Ion Ratio Lower Upper  
50 100  
52 23.9 26.2 39.2#





#5

Bromomethane

Concen: 0.441 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

Instrument :

MSVOA\_X

ClientSampleId :

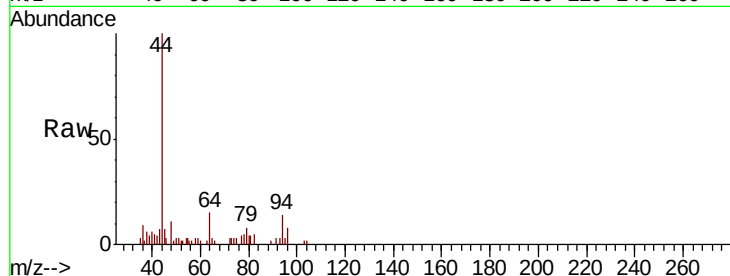
SA-TW502-3438

Tot Ion: 94 Resp: 906

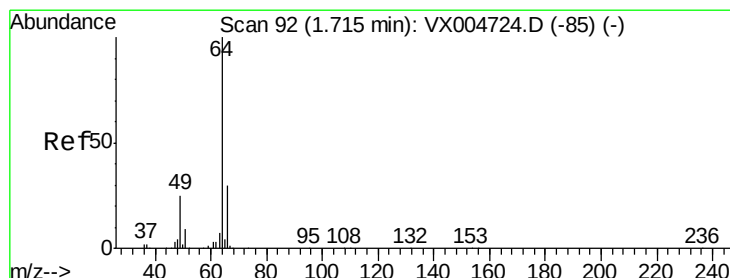
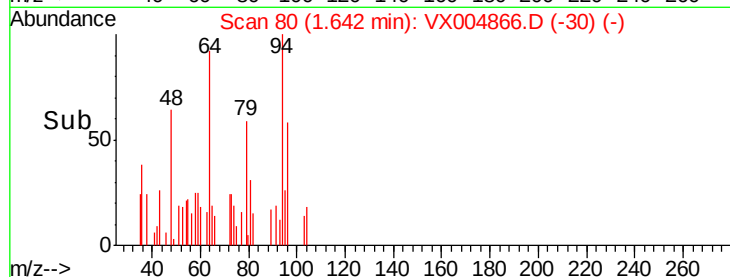
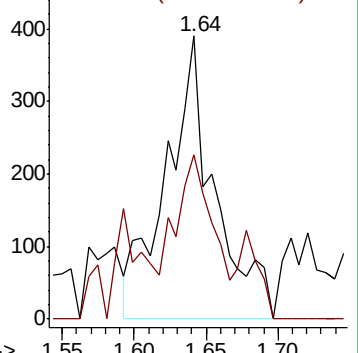
Ion Ratio Lower Upper

94 100

96 57.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004866.D

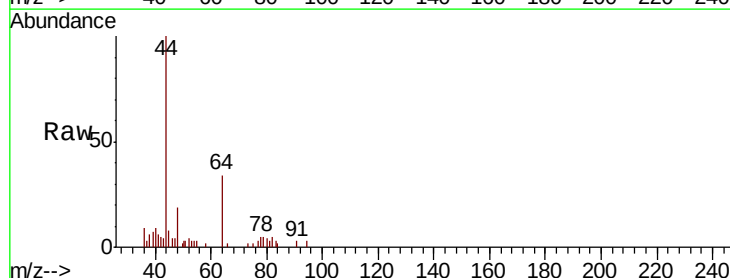
Acq: 01 Oct 2018 13:14

Tgt Ion: 64 Resp: 322

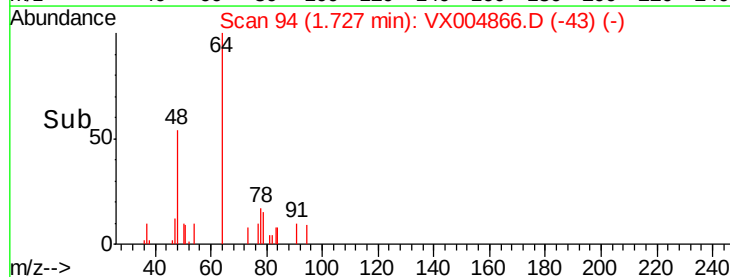
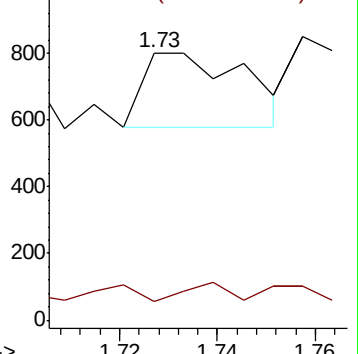
Ion Ratio Lower Upper

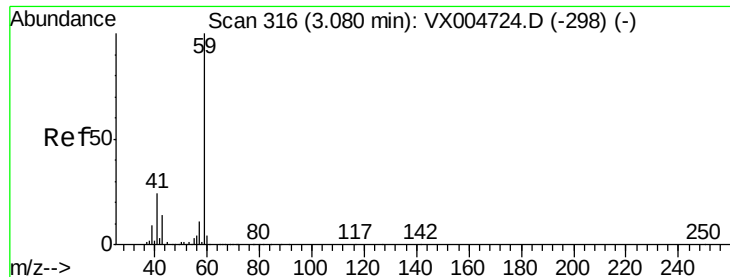
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0



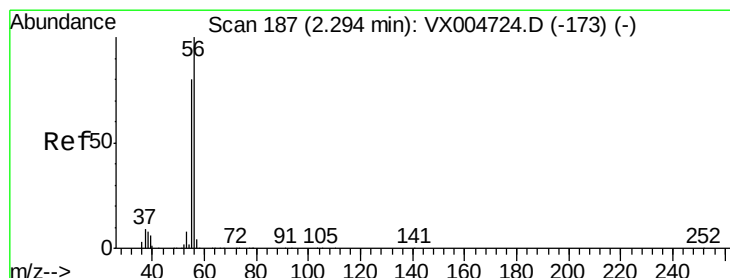
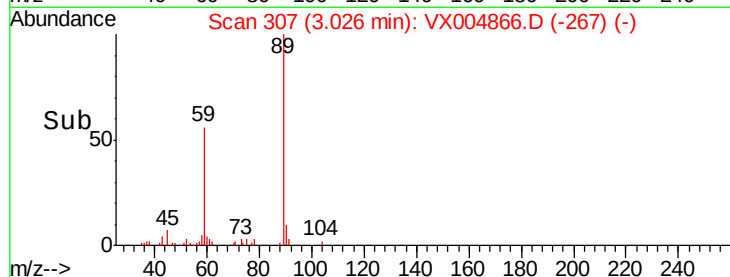
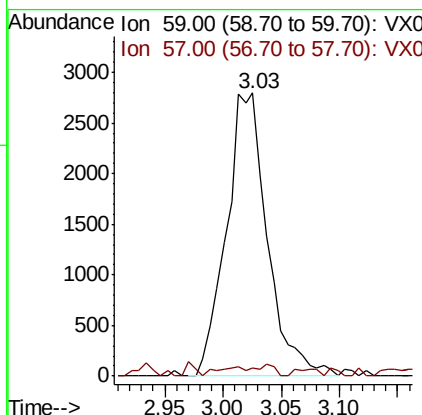
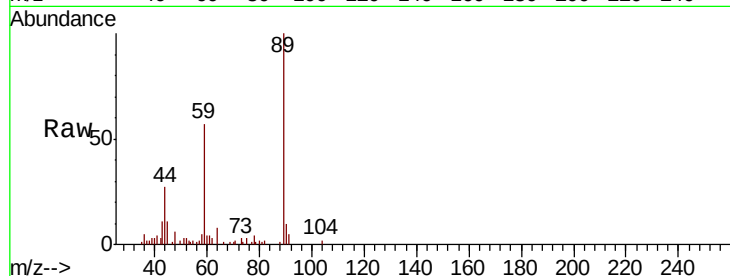


#11

Tert butyl alcohol  
Concen: 7.697 ug/l  
RT: 3.03 min Scan# 307  
Delta R.T. -0.05 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW502-3438

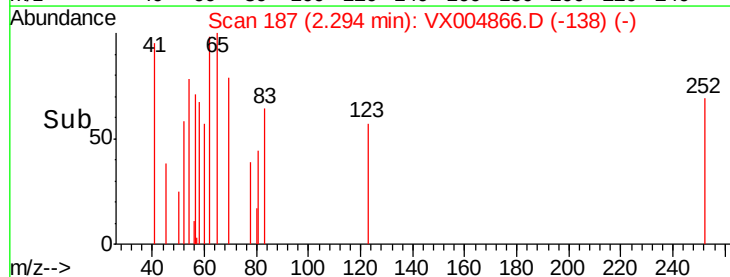
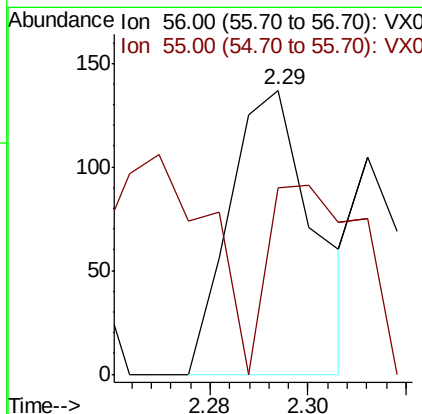
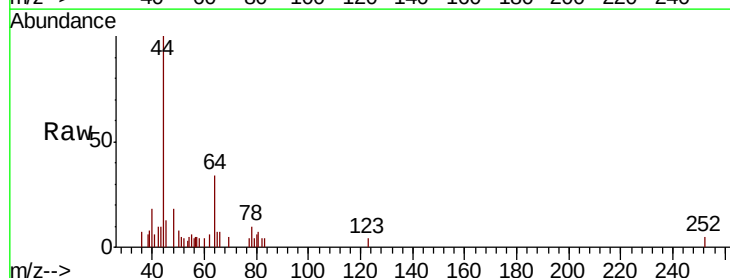
Tot Ion: 59 Resp: 6859  
Ion Ratio Lower Upper  
59 100  
57 2.3 8.2 12.4#

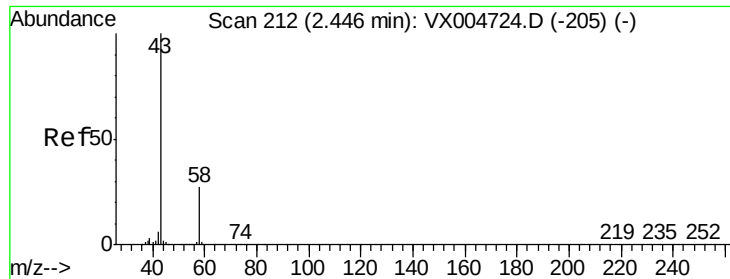


#13

Acrolein  
Concen: 0.259 ug/l  
RT: 2.29 min Scan# 187  
Delta R.T. 0.00 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

Tgt Ion: 56 Resp: 164  
Ion Ratio Lower Upper  
56 100  
55 73.2 54.7 82.1

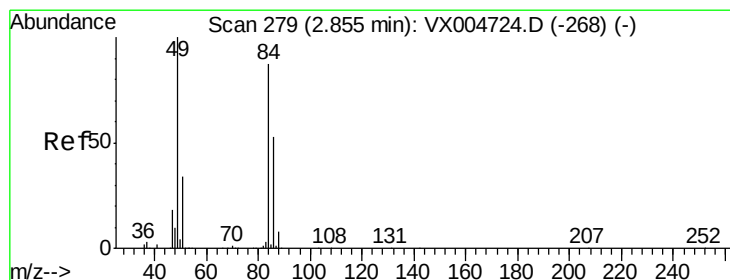
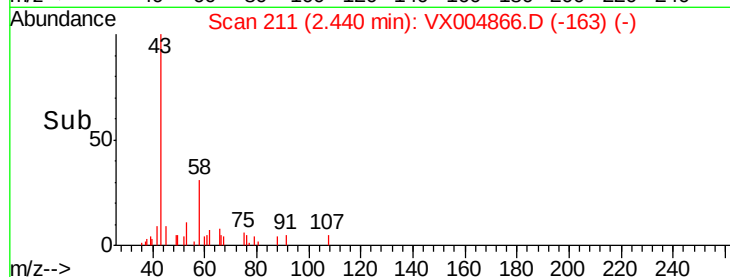
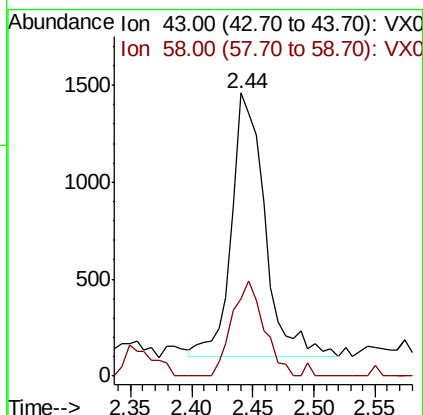
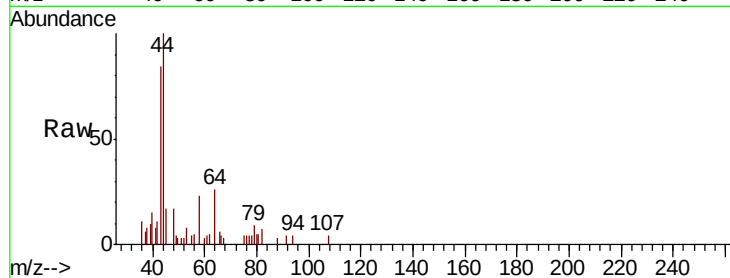




#16  
Acetone  
Concen: 1.379 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. -0.01 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

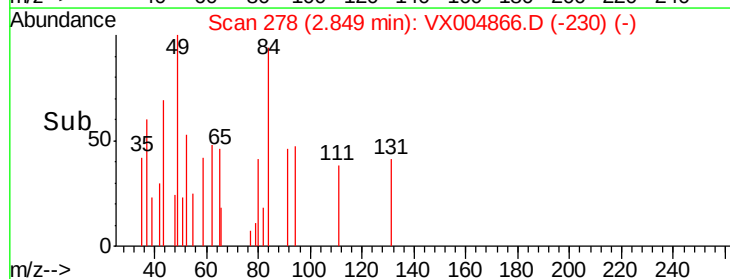
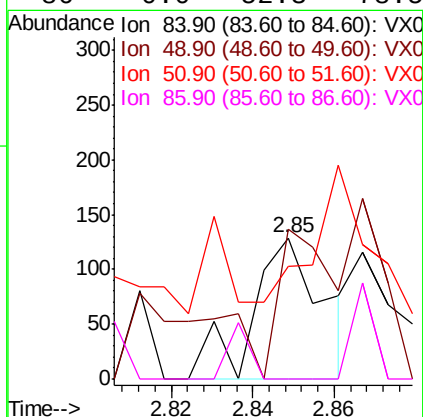
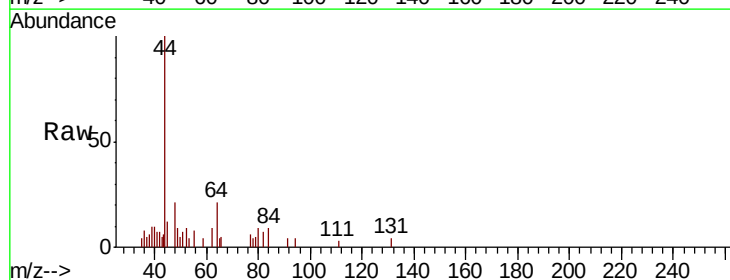
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW502-3438

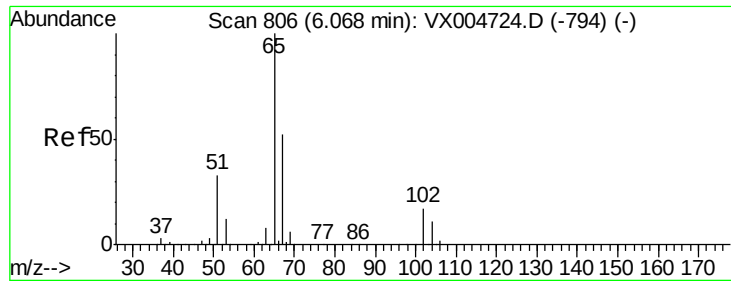
Tot Ion: 43 Resp: 2566  
Ion Ratio Lower Upper  
43 100  
58 29.5 26.2 39.4



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.85 min Scan# 278  
Delta R.T. -0.01 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

Tgt Ion: 84 Resp: 156  
Ion Ratio Lower Upper  
84 100  
49 65.9 101.2 151.8#  
51 33.3 29.5 44.3  
86 0.0 52.3 78.5#

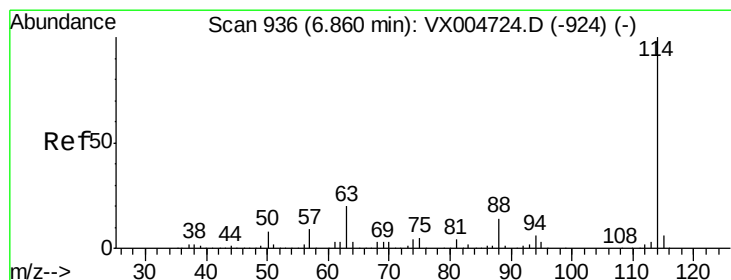
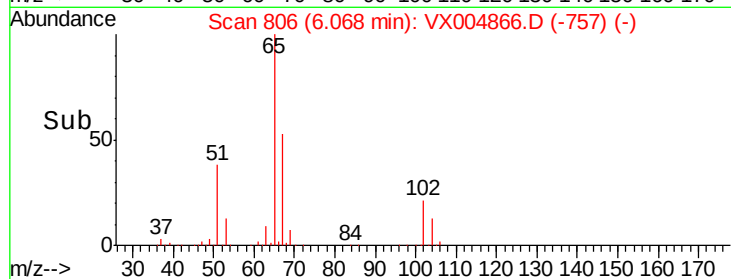
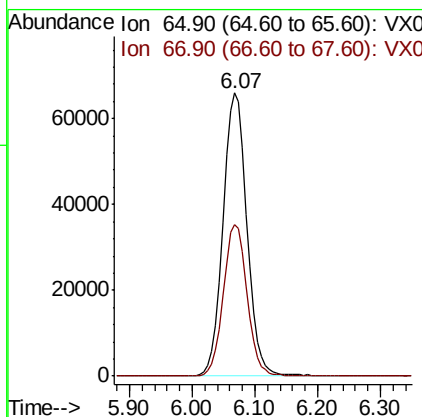
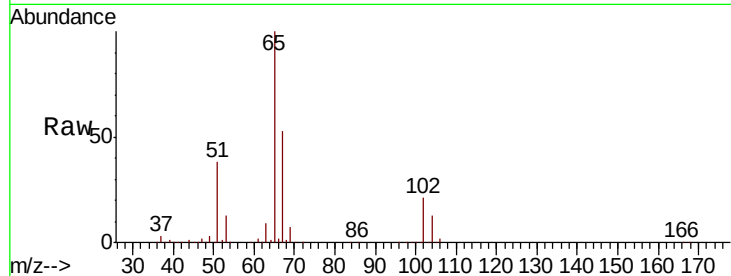




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.663 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. 0.00 min  
 Lab File: VX004866.D  
 Acq: 01 Oct 2018 13:14

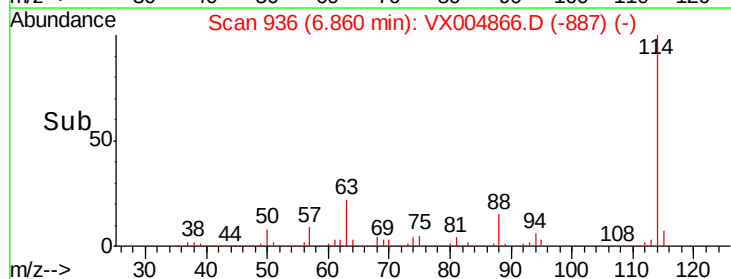
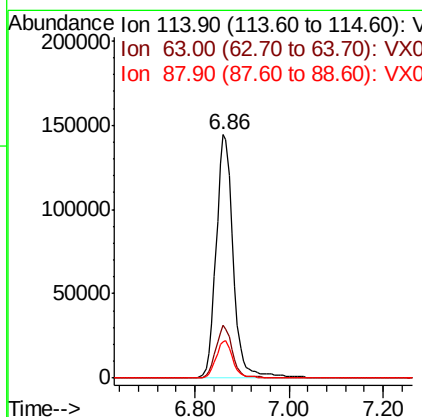
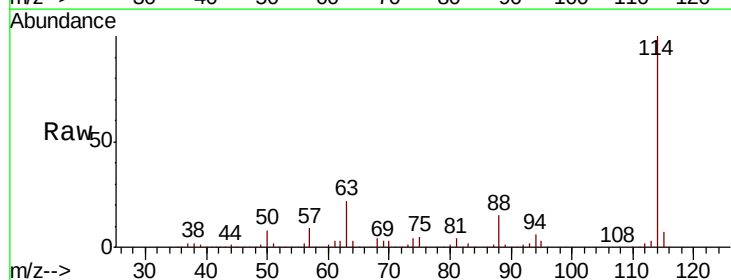
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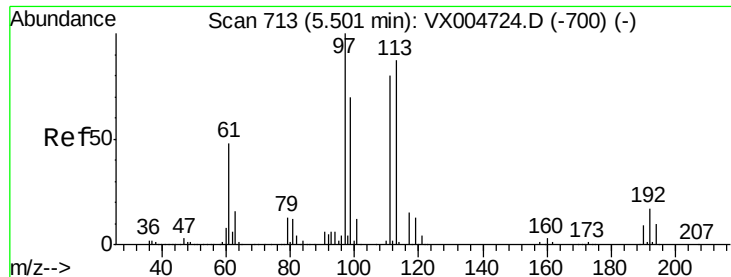
Tot Ion: 65 Resp: 174213  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX004866.D  
 Acq: 01 Oct 2018 13:14

Tgt Ion: 114 Resp: 363600  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 39.0  
 88 14.9 0.0 30.4

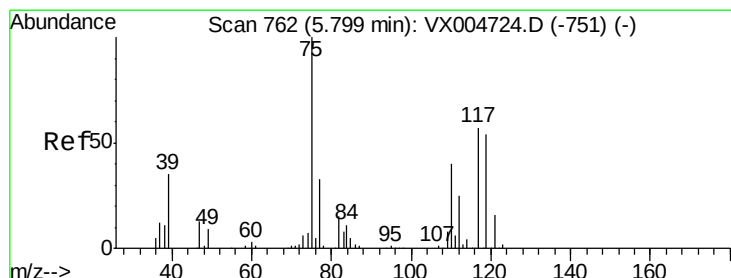
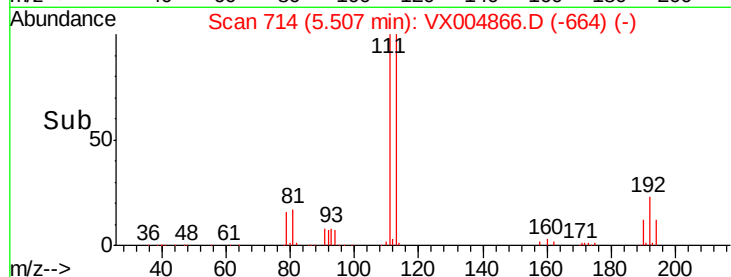
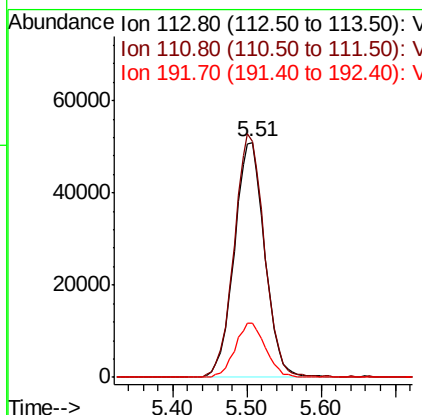
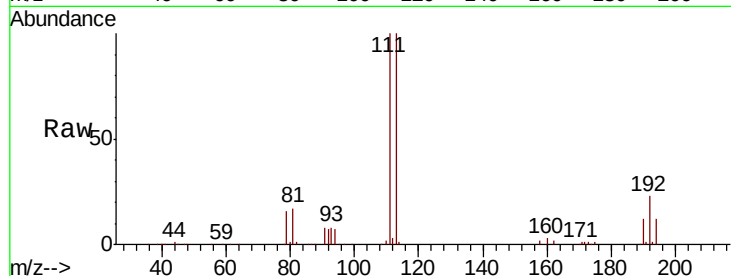




#35  
 Dibromofluoromethane  
 Concen: 47.381 ug/l  
 RT: 5.51 min Scan# 714  
 Delta R.T. 0.01 min  
 Lab File: VX004866.D  
 Acq: 01 Oct 2018 13:14

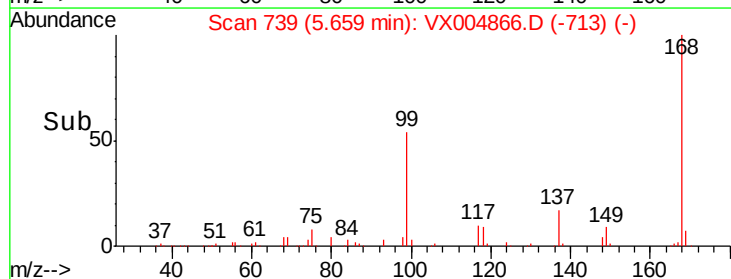
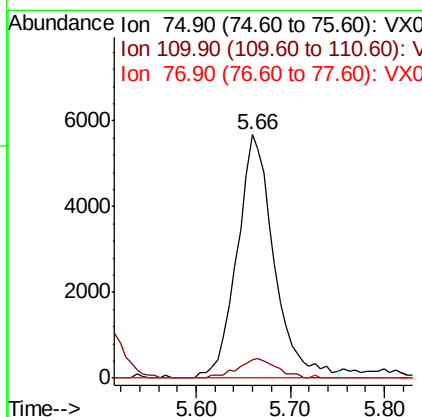
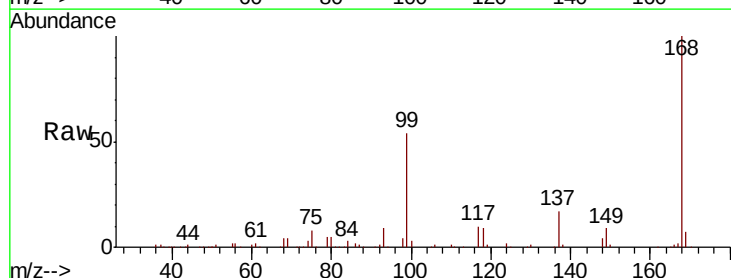
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 SA-TW502-3438

Tot Ion:113 Resp: 146006  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 82.4 123.6  
 192 23.1 19.4 29.2

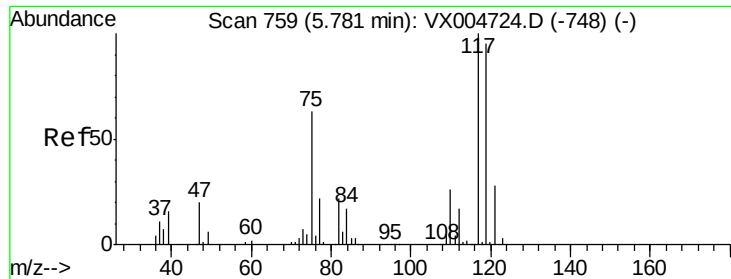


#36  
 1,1-Dichloropropene  
 Concen: 3.706 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX004866.D  
 Acq: 01 Oct 2018 13:14

Tgt Ion: 75 Resp: 15581  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 18.0 54.0#  
 77 0.0 24.6 36.8#







#38

Carbon Tetrachloride

Concen: 4.633 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW502-3438

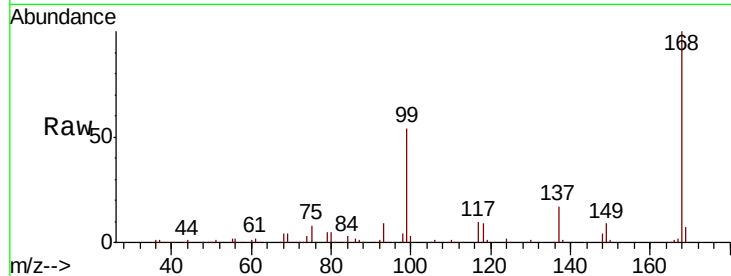
Tot Ion:117 Resp: 20477

Ion Ratio Lower Upper

117 100

119 6.3 78.8 118.2#

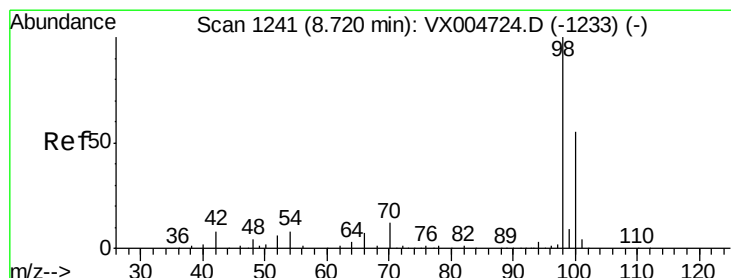
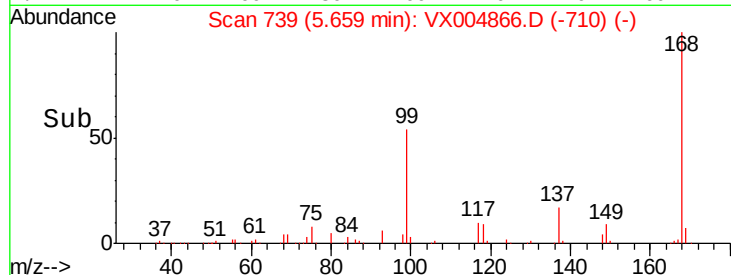
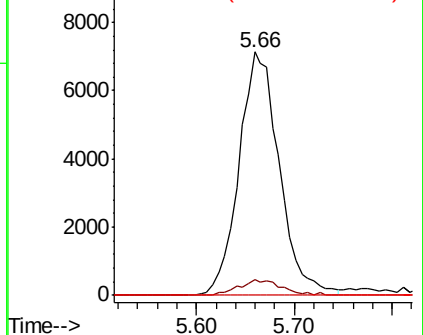
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 51.367 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004866.D

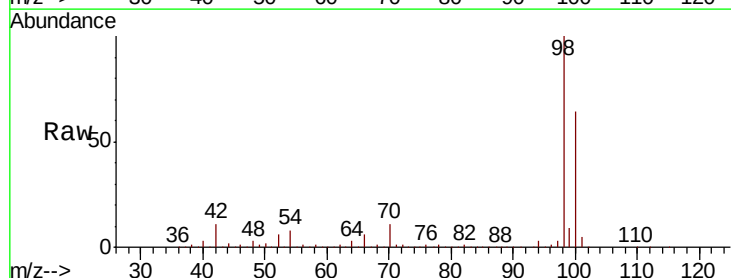
Acq: 01 Oct 2018 13:14

Tgt Ion: 98 Resp: 526240

Ion Ratio Lower Upper

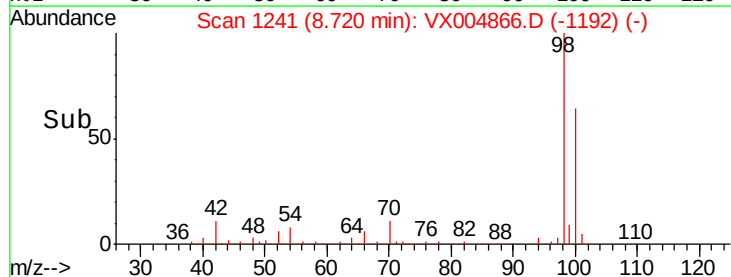
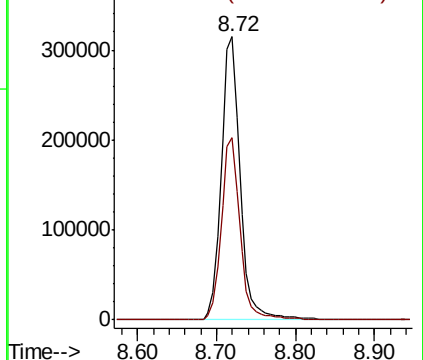
98 100

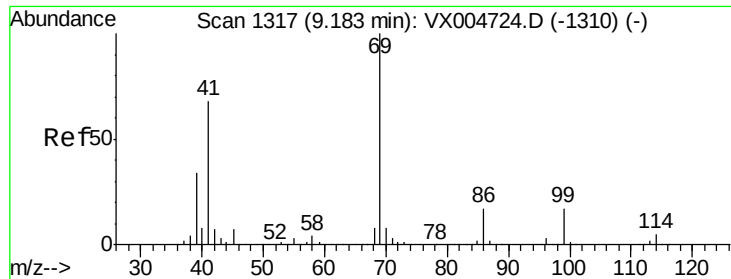
100 63.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.20 min Scan# 1320

Delta R.T. 0.02 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW502-3438

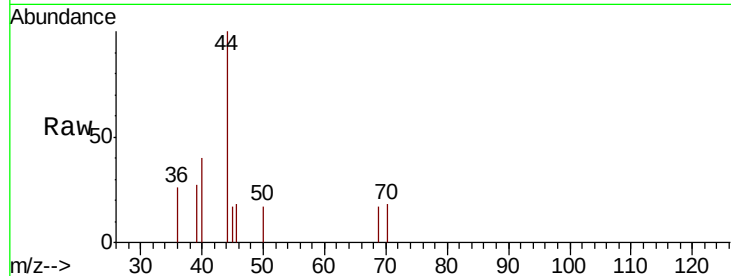
Tot Ion: 69 Resp: 21

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

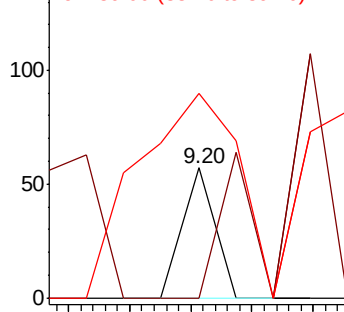
39 490.5 26.1 39.1#



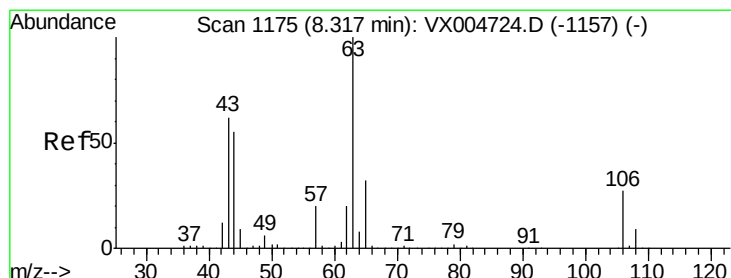
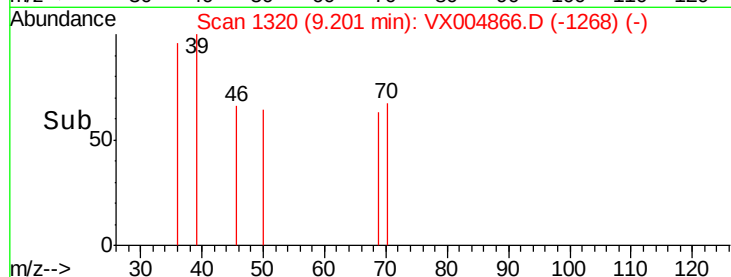
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 14.249 ug/l

RT: 8.28 min Scan# 1169

Delta R.T. -0.04 min

Lab File: VX004866.D

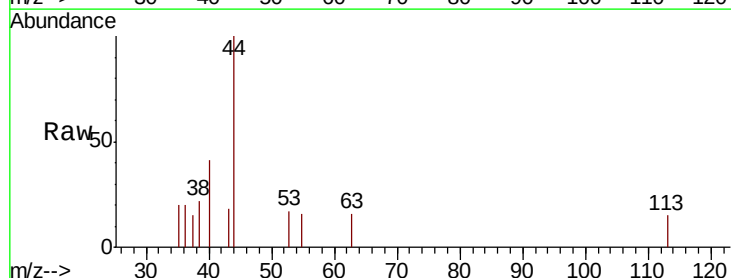
Acq: 01 Oct 2018 13:14

Tgt Ion: 63 Resp: 20

Ion Ratio Lower Upper

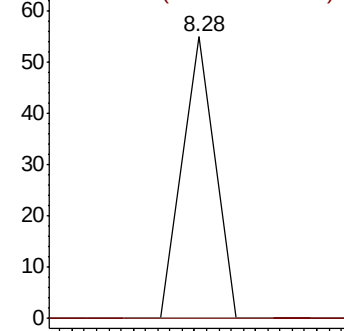
63 100

106 0.0 23.9 35.9#

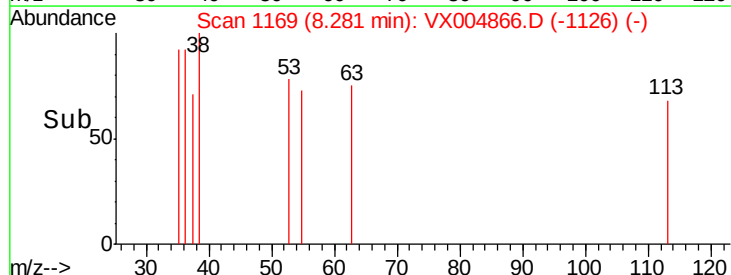


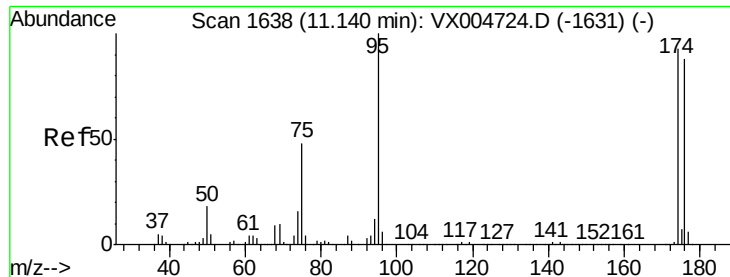
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V



Time-->

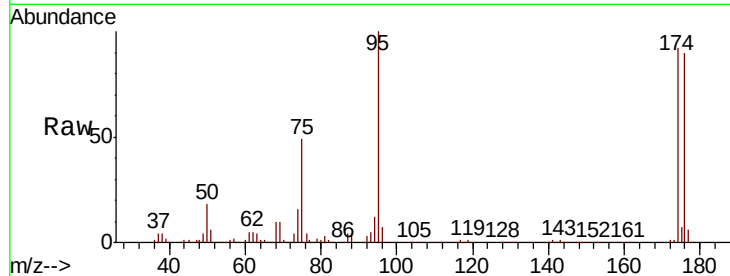




#62  
4-Bromofluorobenzene  
Concen: 50.090 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. 0.00 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW502-3438

| Tot Ion   | 95   | Resp | 184865 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     |      |      |        |
| Upper     |      |      |        |
| 95        | 100  |      |        |
| 174       | 92.5 | 0.0  | 185.2  |
| 176       | 88.8 | 0.0  | 178.6  |

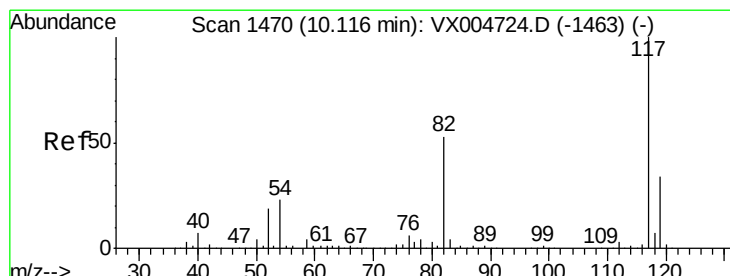
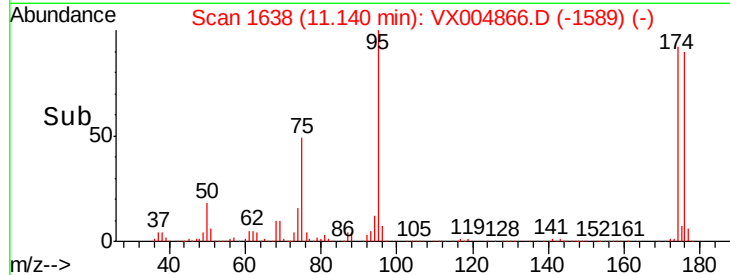
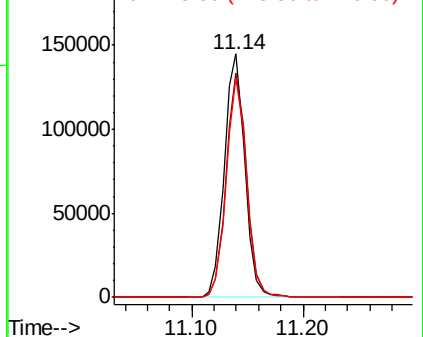


Abundance

Ion 94.90 (94.60 to 95.60): VX004866.D (-1589) (-)

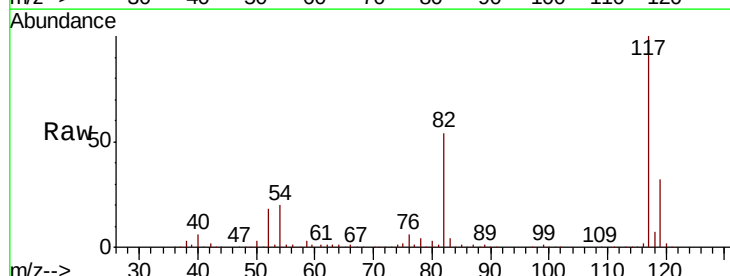
Ion 173.80 (173.50 to 174.50): VX004866.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX004866.D (-1589) (-)



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX004866.D  
Acq: 01 Oct 2018 13:14

| Tgt Ion   | 117  | Resp | 356432 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     |      |      |        |
| Upper     |      |      |        |
| 117       | 100  |      |        |
| 82        | 54.0 | 47.8 | 71.6   |
| 119       | 32.1 | 29.3 | 43.9   |

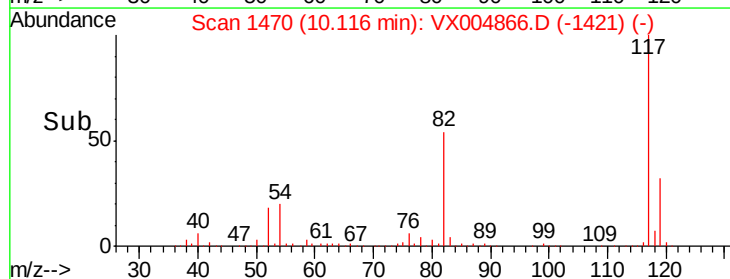
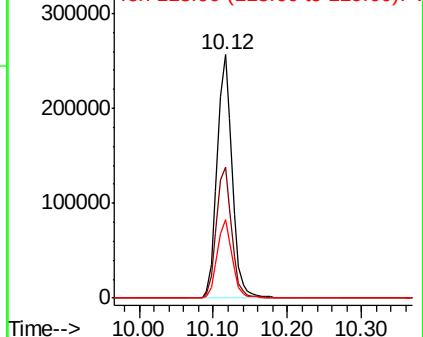


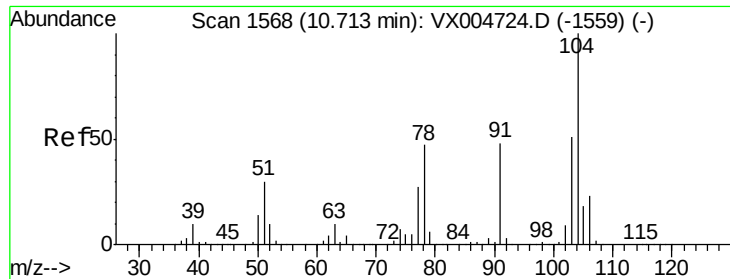
Abundance

Ion 116.90 (116.60 to 117.60): VX004866.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX004866.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX004866.D (-1421) (-)





#70

Stvrene

Concen: 2.149 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW502-3438

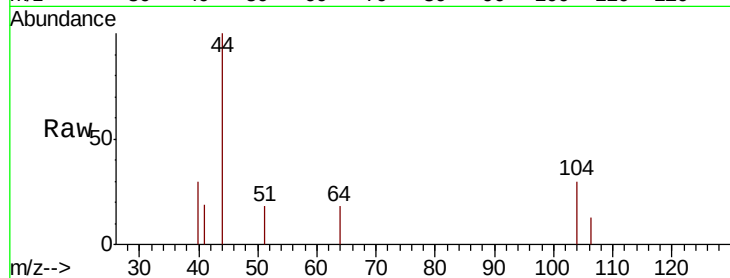
Tot Ion:104 Resp: 89

Ion Ratio Lower Upper

104 100

78 30.3 37.4 56.0#

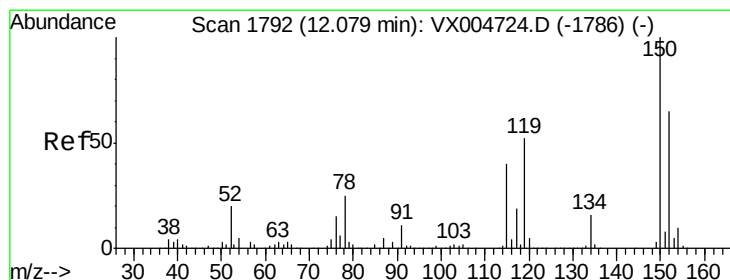
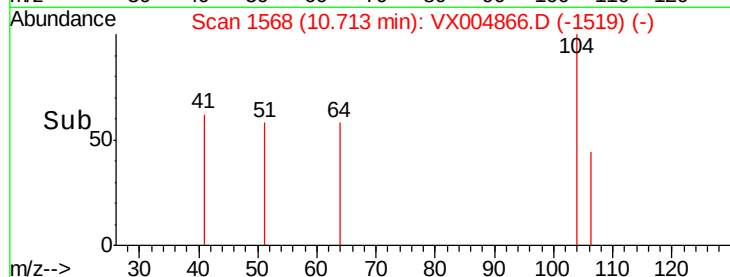
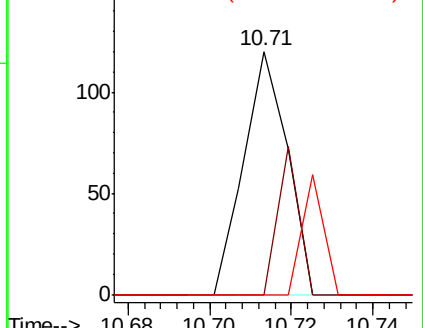
103 24.7 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

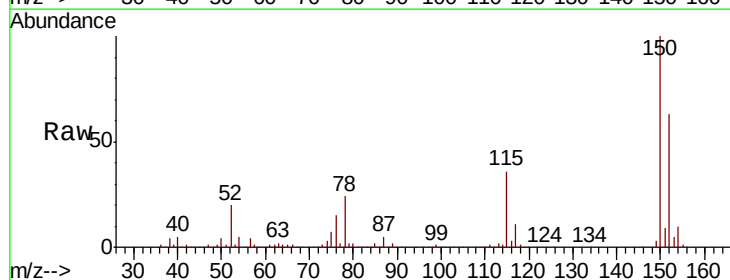
Tgt Ion:152 Resp: 191728

Ion Ratio Lower Upper

152 100

115 56.1 39.0 117.0

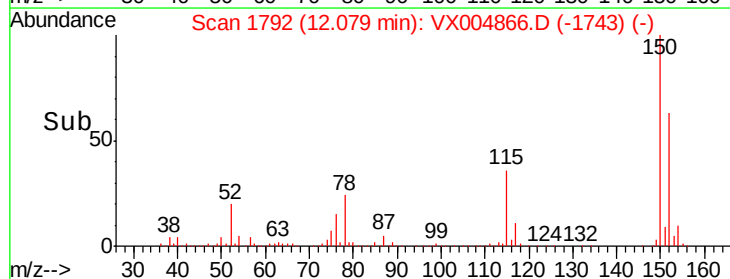
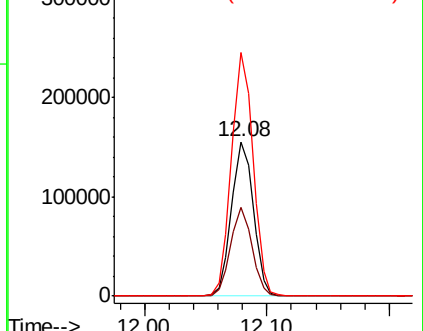
150 156.4 0.0 351.0

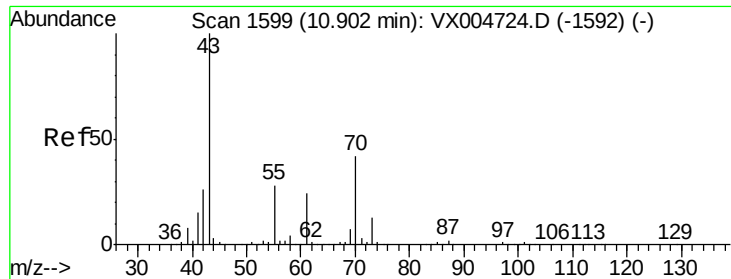


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.759 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW502-3438

Tot Ion: 43 Resp: 77

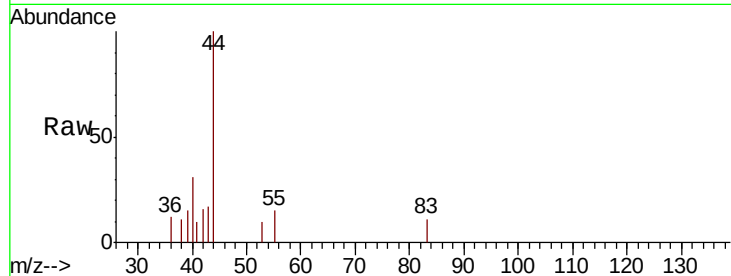
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 36.4 21.8 32.8#

61 0.0 20.6 30.8#

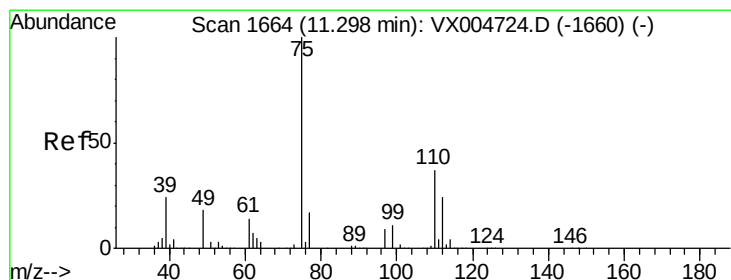
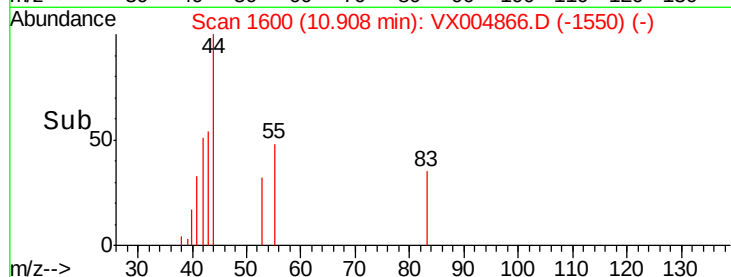
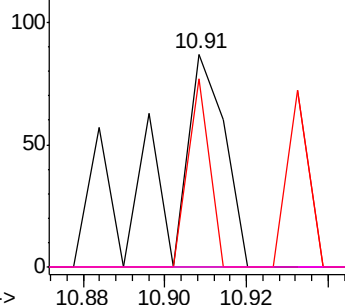


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.433 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004866.D

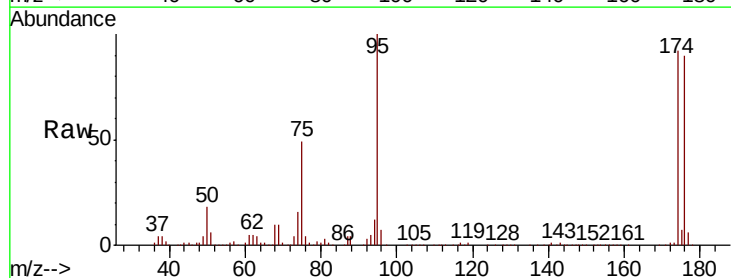
Acq: 01 Oct 2018 13:14

Tgt Ion: 75 Resp: 92103

Ion Ratio Lower Upper

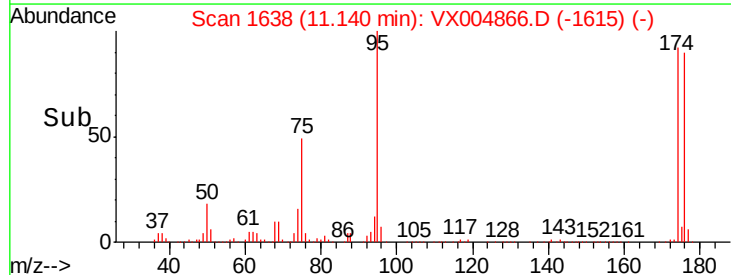
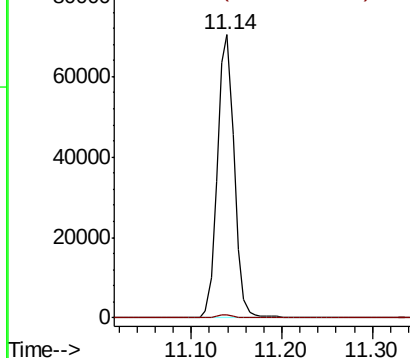
75 100

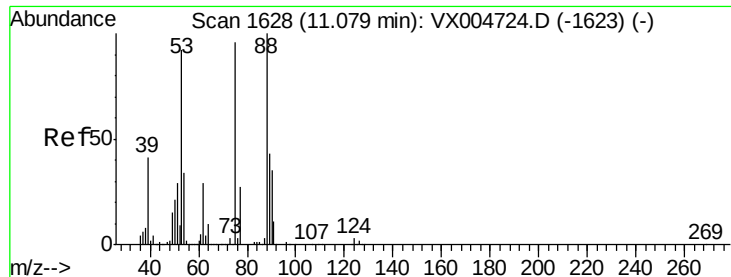
77 1.2 20.2 60.6#



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: 58.119 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW502-3438

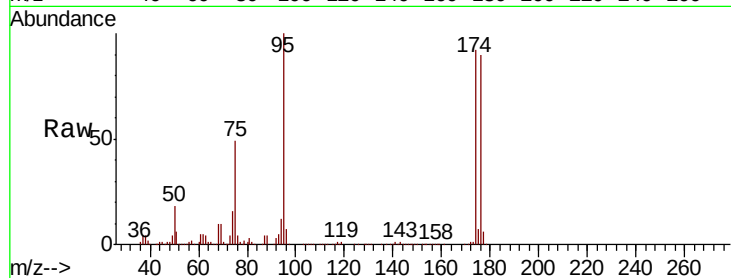
Tot Ion: 75 Resp: 92103

Ion Ratio Lower Upper

75 100

53 0.4 80.1 120.1#

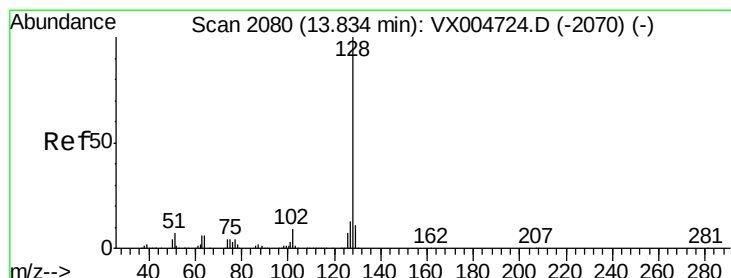
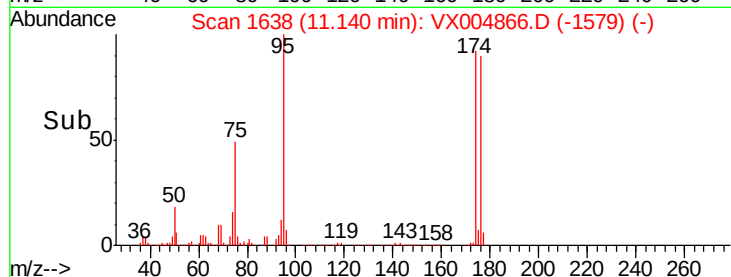
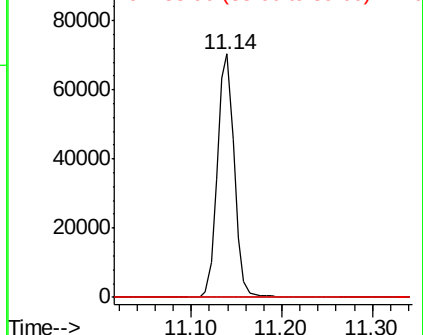
89 0.0 37.2 55.8#



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: 0.753 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004866.D

Acq: 01 Oct 2018 13:14

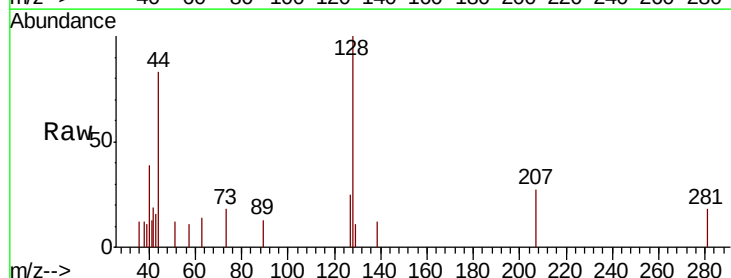
Tgt Ion: 128 Resp: 550

Ion Ratio Lower Upper

128 100

127 7.6 10.2 15.2#

129 9.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

