

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX073119\  
 Data File : VX011244.D  
 Acq On : 31 Jul 2019 15:43  
 Operator : JC/SP  
 Sample : VX0731MBL01  
 Misc : 5.0g/10mL/100uL/10mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0731MBL01

Quant Time: Jul 31 16:14:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 24 05:39:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 234791   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 338724   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 297482   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 140390   | 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   | 118264   | 47.35 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.70% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 100913   | 46.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.88% |          |
| 50) Toluene-d8              | 8.71  | 98   | 390579   | 48.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.88% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 129542   | 43.71 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.42% |          |

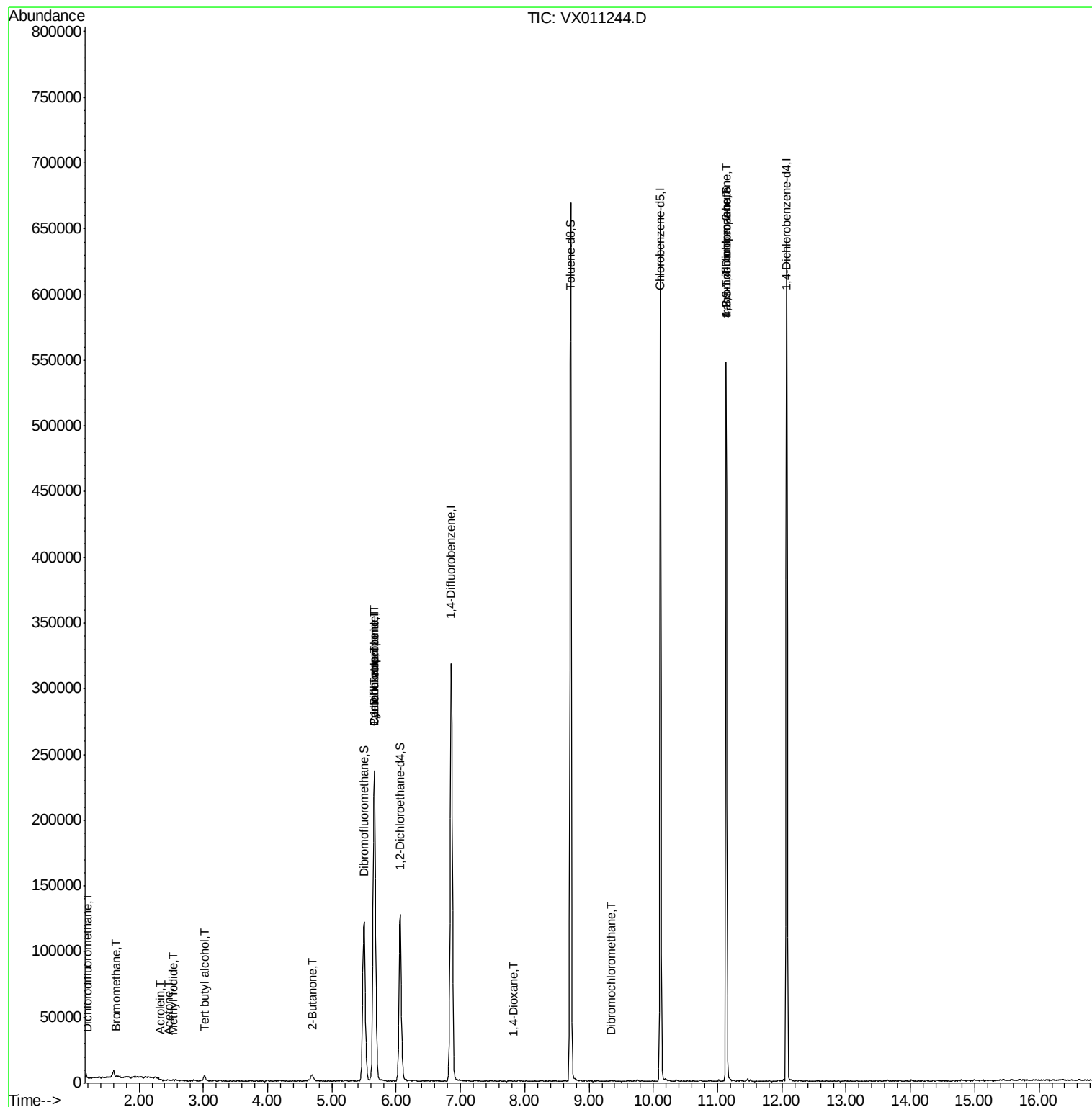
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 19       | 0.554  | ug/l # | 43     |
| 5) Bromomethane                | 1.65  | 94   | 701      | 0.565  | ug/l   | 97     |
| 10) Methyl Iodide              | 2.52  | 142  | 704      | 0.252  | ug/l # | 82     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2490     | 4.280  | ug/l # | 83     |
| 13) Acrolein                   | 2.32  | 56   | 158      | 0.470  | ug/l   | 93     |
| 16) Acetone                    | 2.45  | 43   | 491      | 0.435  | ug/l # | 27     |
| 25) 2-Butanone                 | 4.70  | 43   | 564      | 0.348  | ug/l   | 93     |
| 31) Cyclohexane                | 5.65  | 56   | 4817     | 1.420  | ug/l # | 38     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 15951    | 5.733  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 21681    | 7.478  | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.82  | 88   | 20       | 0.313  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129  | 42       | 2.543  | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 65969    | 26.040 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 65969    | 64.701 | ug/l # | 11     |

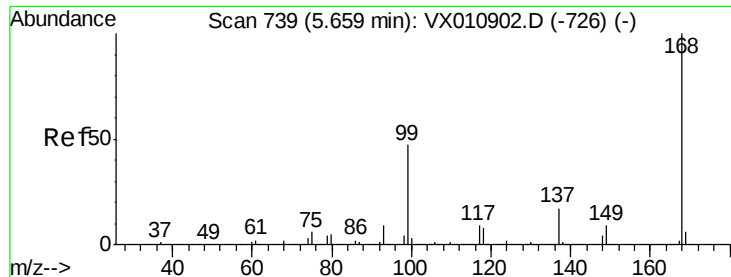
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX073119\  
Data File : VX011244.D  
Acq On : 31 Jul 2019 15:43  
Operator : JC/SP  
Sample : VX0731MBL01  
Misc : 5.0g/10mL/100uL/10mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0731MBL01

Quant Time: Jul 31 16:14:26 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 24 05:39:23 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Instrument :

MSVOA\_X

ClientSampleId :

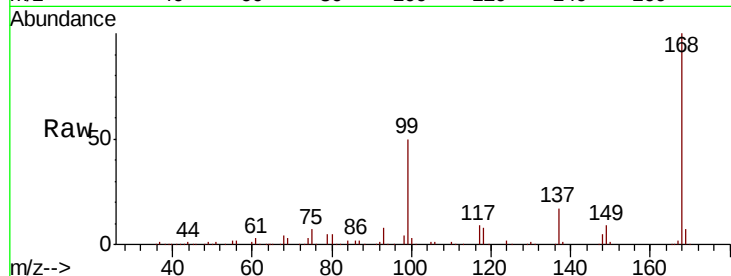
VX0731MBL01

Tgt Ion:168 Resp: 234791

Ion Ratio Lower Upper

168 100

99 50.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

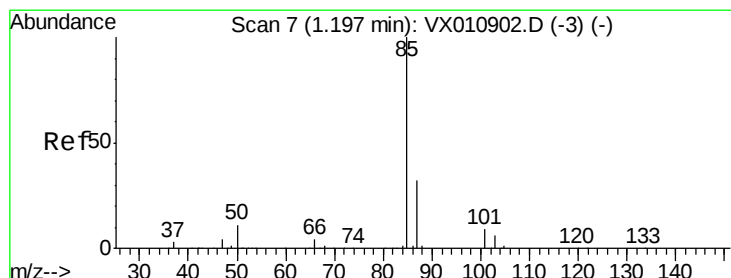
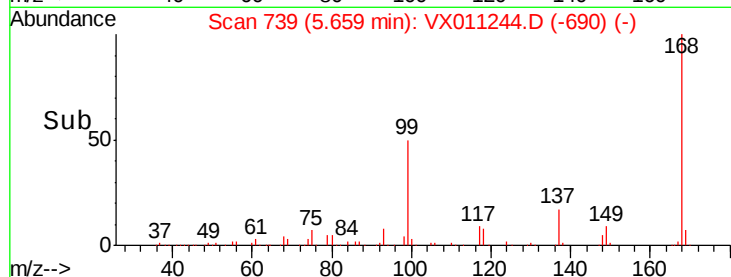
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.554 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011244.D

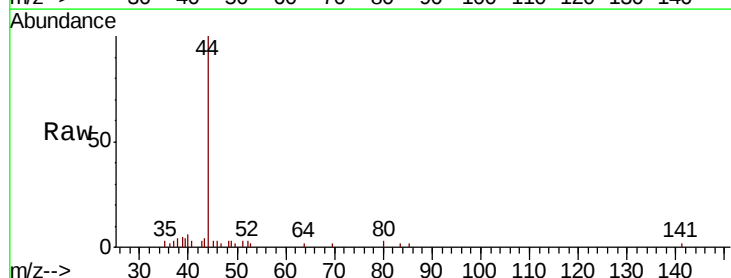
Acq: 31 Jul 2019 15:43

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60

50

40

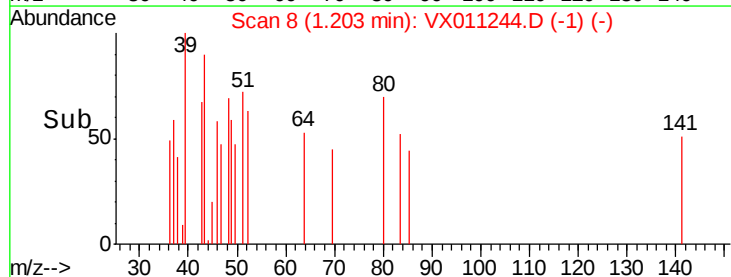
30

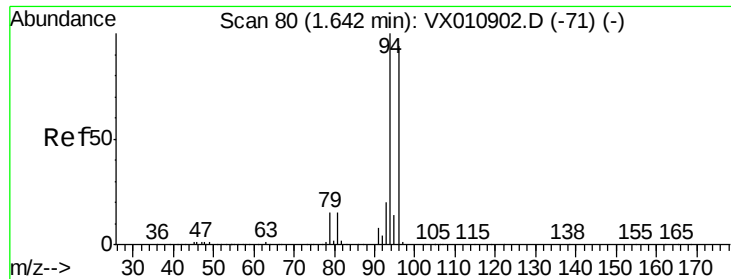
20

10

0

Time--> 1.18 1.19 1.20 1.21 1.22





#5

Bromomethane

Concen: 0.565 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Instrument :

MSVOA\_X

ClientSampleId :

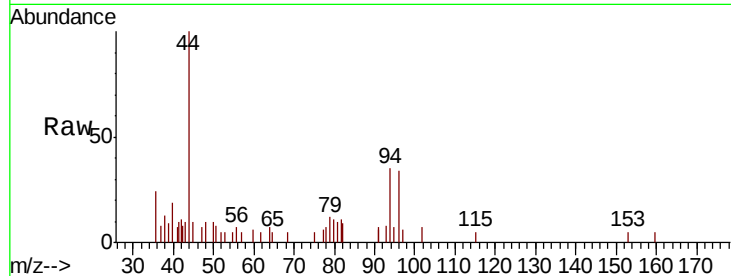
VX0731MBL01

Tgt Ion: 94 Resp: 701

Ion Ratio Lower Upper

94 100

96 97.4 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

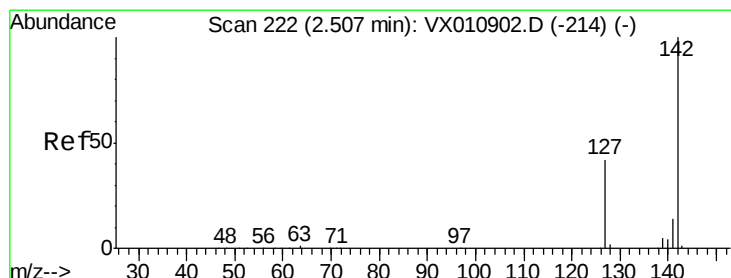
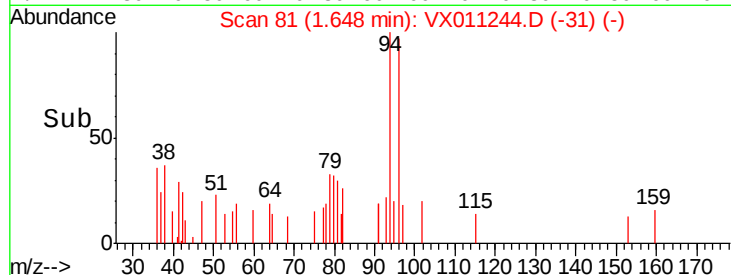
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 0.252 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

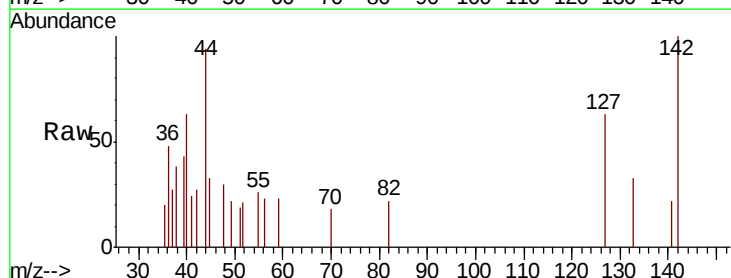
Tgt Ion: 142 Resp: 704

Ion Ratio Lower Upper

142 100

127 52.3 34.2 51.4#

141 3.3 11.7 17.5#



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

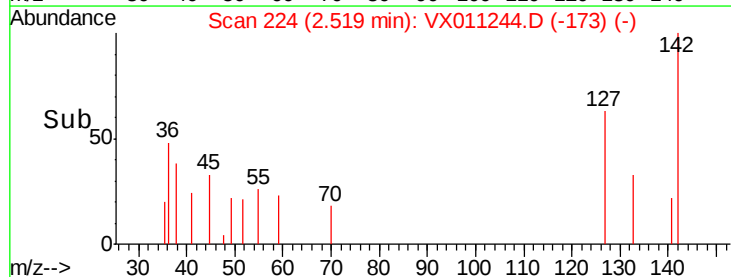
300

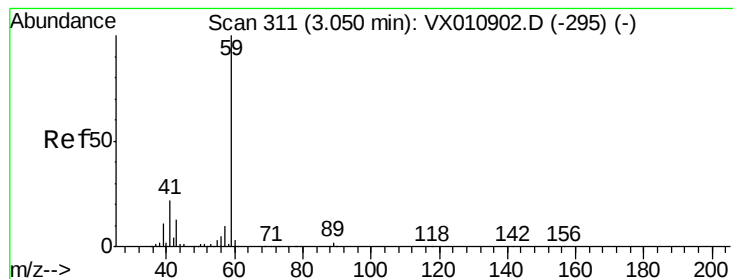
200

100

0

Time-->



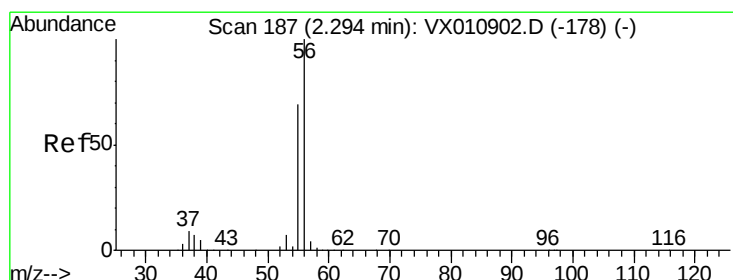
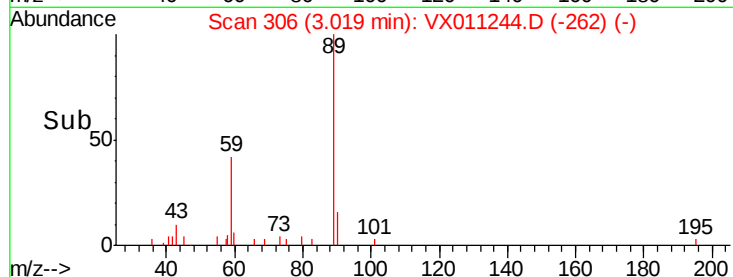
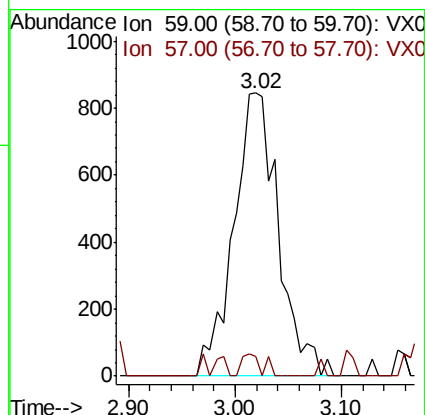
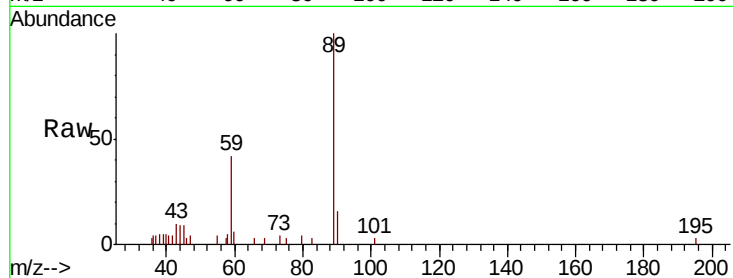


#11

Tert butyl alcohol  
Concen: 4.280 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.03 min  
Lab File: VX011244.D  
Acq: 31 Jul 2019 15:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0731MBL01

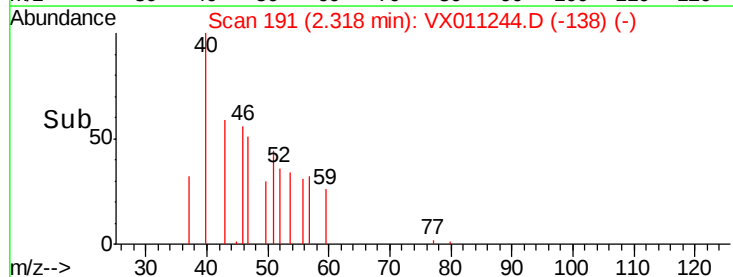
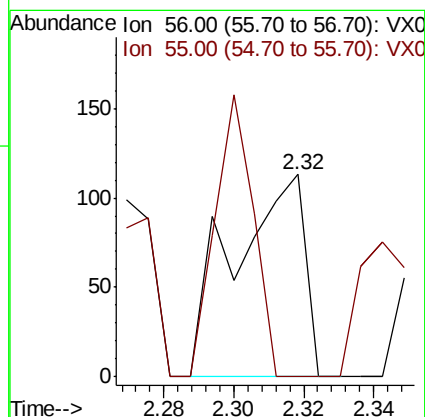
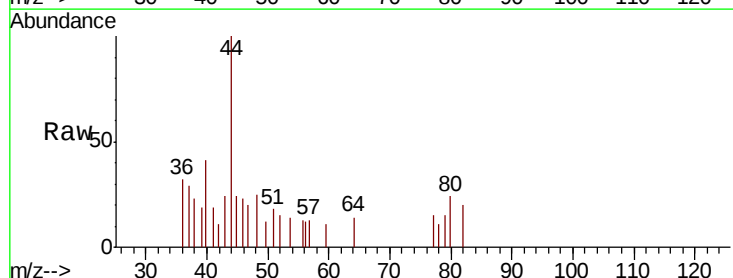
Tgt Ion: 59 Resp: 2490  
Ion Ratio Lower Upper  
59 100  
57 3.7 7.9 11.9#

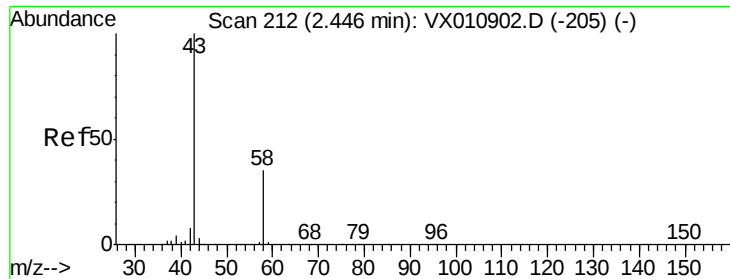


#13

Acrolein  
Concen: 0.470 ug/l  
RT: 2.32 min Scan# 191  
Delta R.T. 0.02 min  
Lab File: VX011244.D  
Acq: 31 Jul 2019 15:43

Tgt Ion: 56 Resp: 158  
Ion Ratio Lower Upper  
56 100  
55 75.9 55.9 83.9





#16

Acetone

Concen: 0.435 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Instrument :

MSVOA\_X

ClientSampleId :

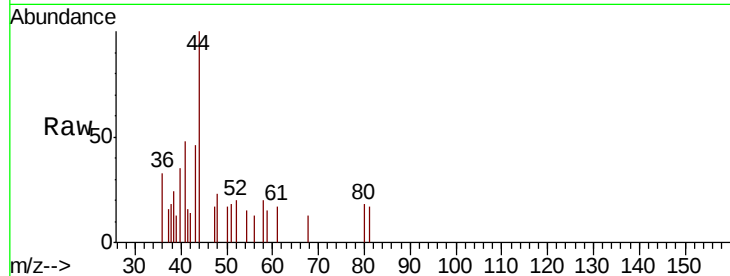
VX0731MBL01

Tgt Ion: 43 Resp: 491

Ion Ratio Lower Upper

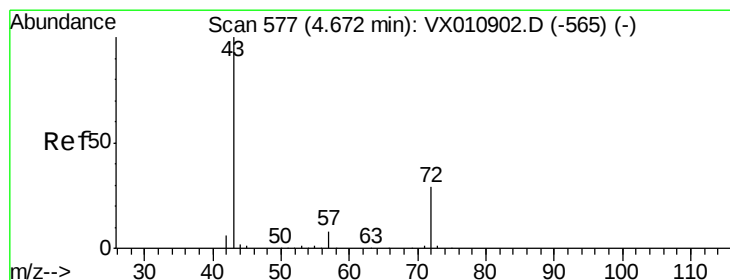
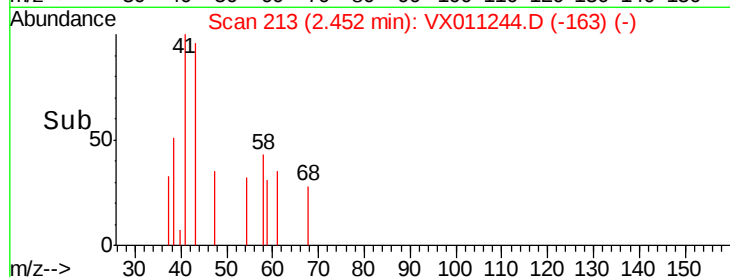
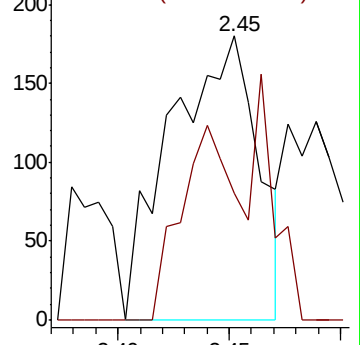
43 100

58 76.7 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.348 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX011244.D

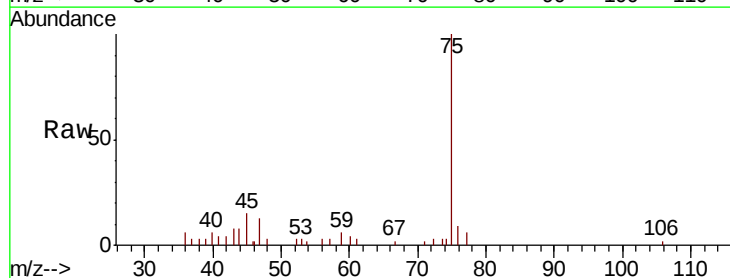
Acq: 31 Jul 2019 15:43

Tgt Ion: 43 Resp: 564

Ion Ratio Lower Upper

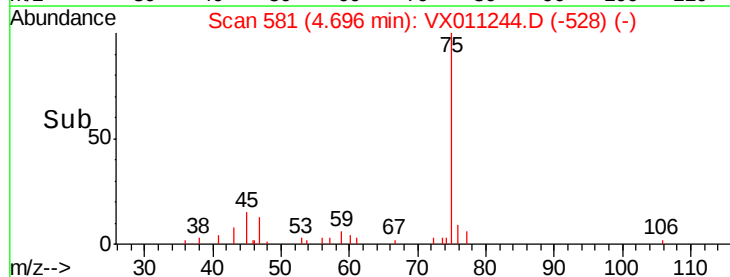
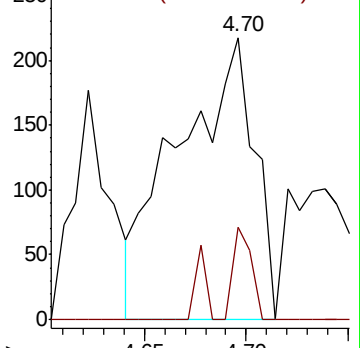
43 100

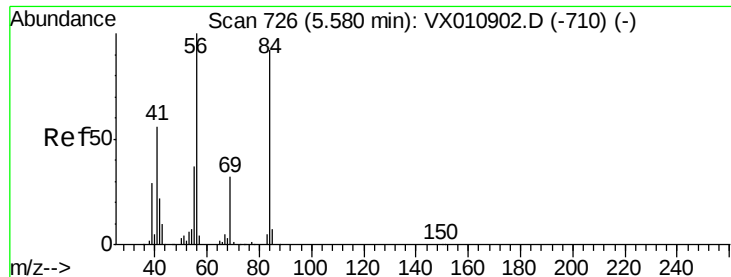
72 32.6 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

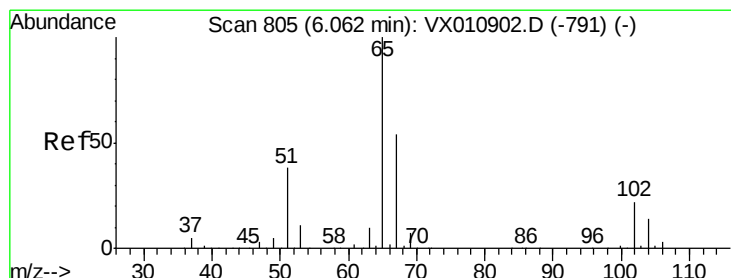
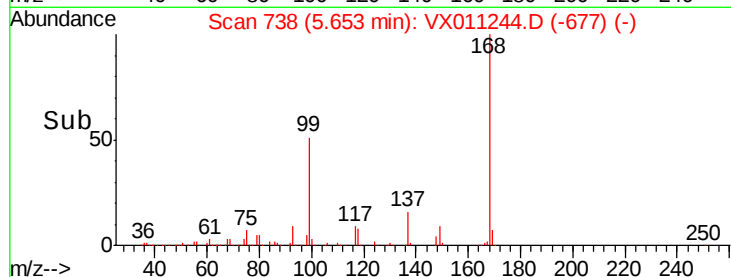
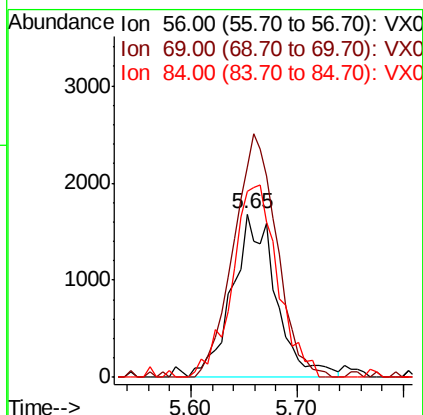
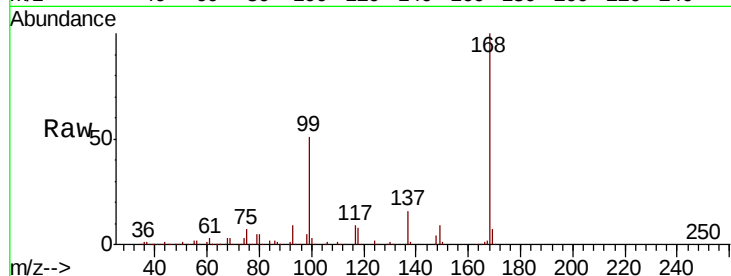




#31  
Cyclohexane  
Concen: 1.420 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. 0.07 min  
Lab File: VX011244.D  
Acq: 31 Jul 2019 15:43

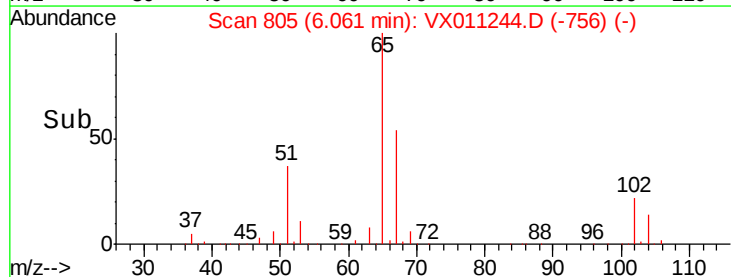
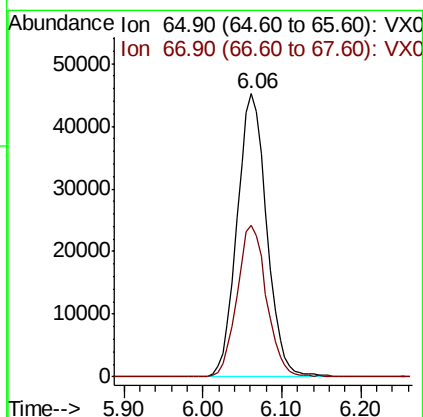
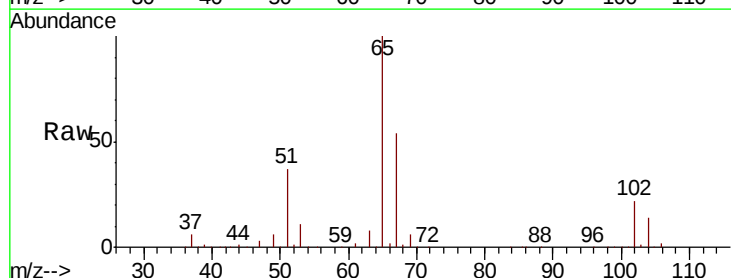
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0731MBL01

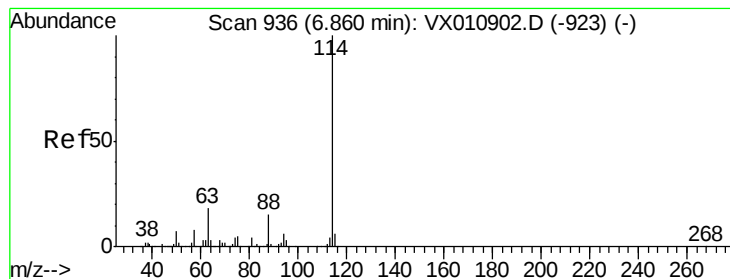
Tgt Ion: 56 Resp: 4817  
Ion Ratio Lower Upper  
56 100  
69 128.9 25.8 38.8#  
84 114.0 73.8 110.6#



#33  
1,2-Dichloroethane-d4  
Concen: 47.347 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. -0.00 min  
Lab File: VX011244.D  
Acq: 31 Jul 2019 15:43

Tgt Ion: 65 Resp: 118264  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0731MBL01

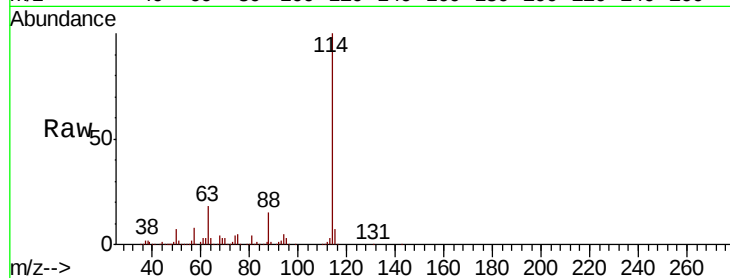
Tgt Ion:114 Resp: 338724

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

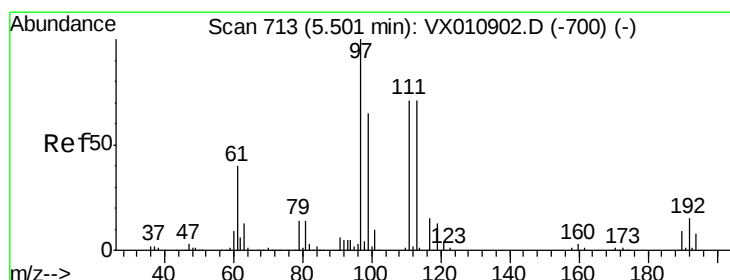
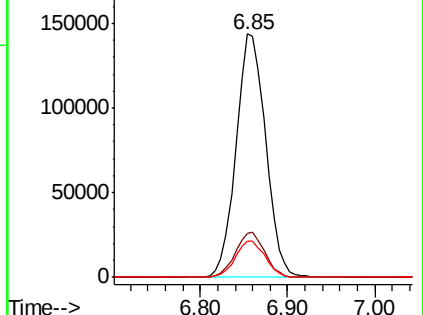
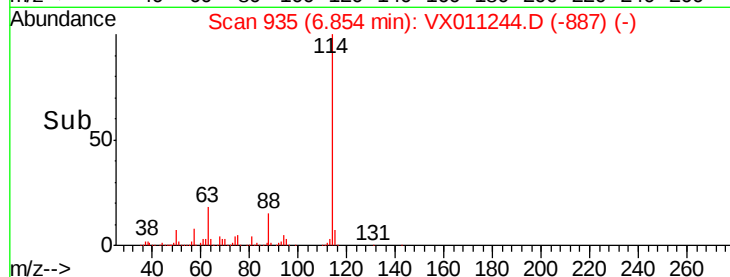
88 14.7 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.937 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

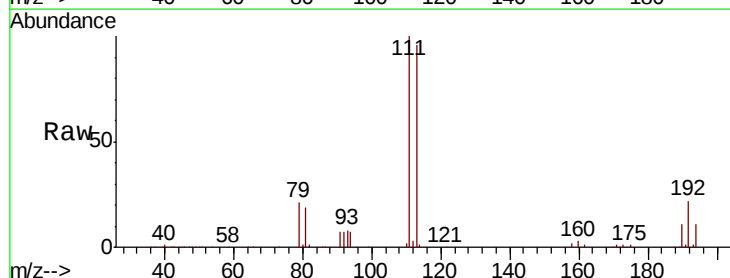
Tgt Ion:113 Resp: 100913

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

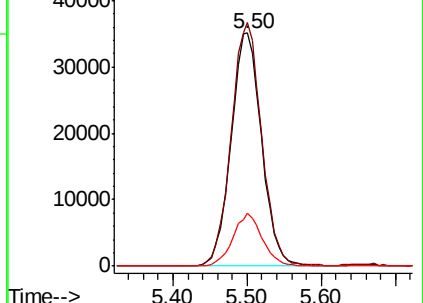
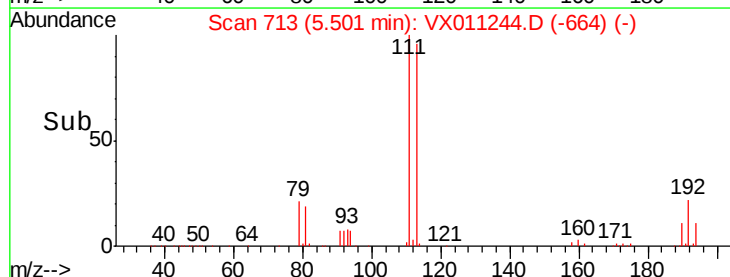
192 21.6 17.4 26.2

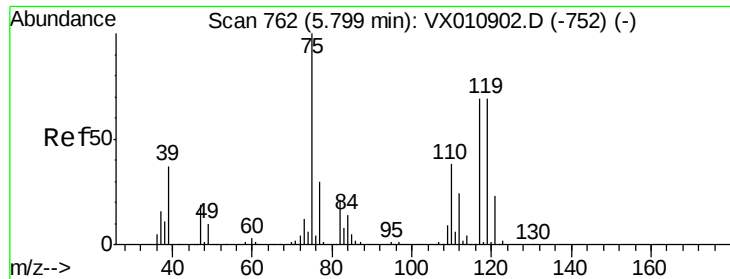


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

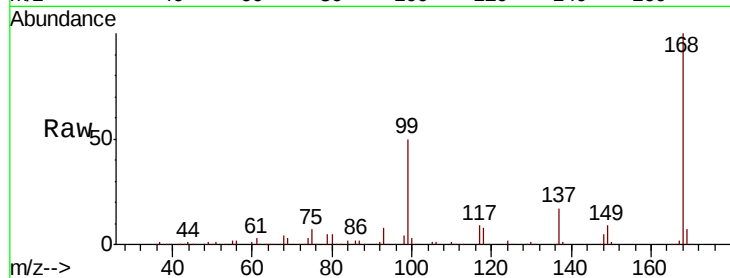




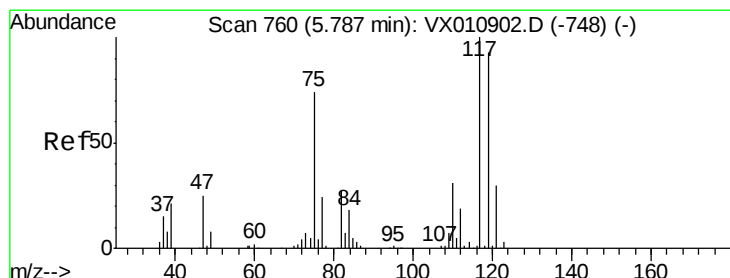
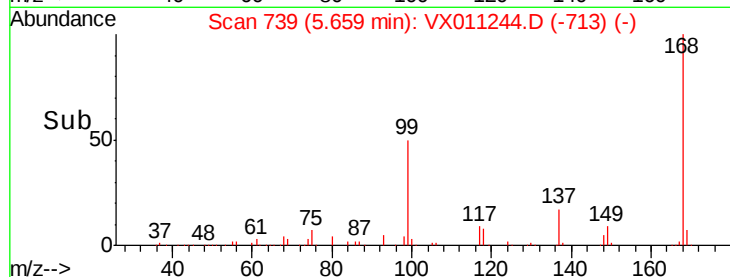
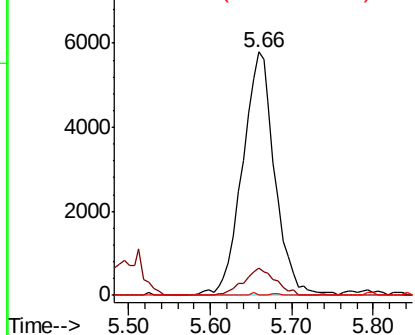
#36  
 1,1-Dichloropropene  
 Concen: 5.733 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX011244.D  
 Acq: 31 Jul 2019 15:43

Instrument :  
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 VX0731MBL01

Tgt Ion: 75 Resp: 15951  
 Ion Ratio Lower Upper  
 75 100  
 110 11.0 19.9 59.7#  
 77 0.2 25.0 37.4#

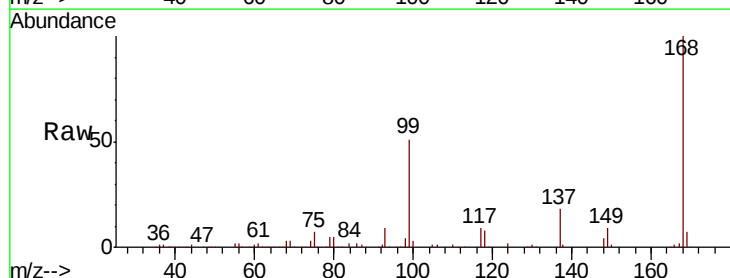


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

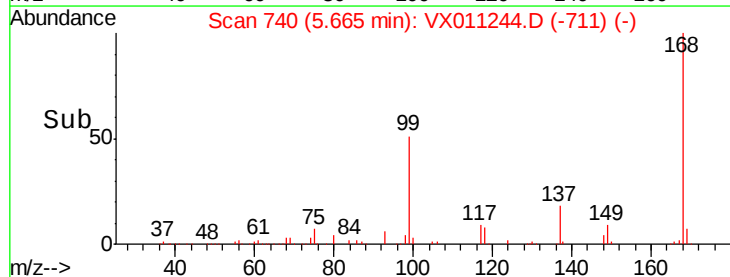
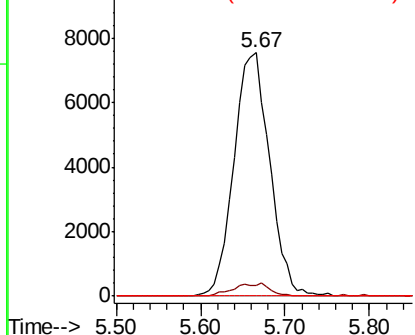


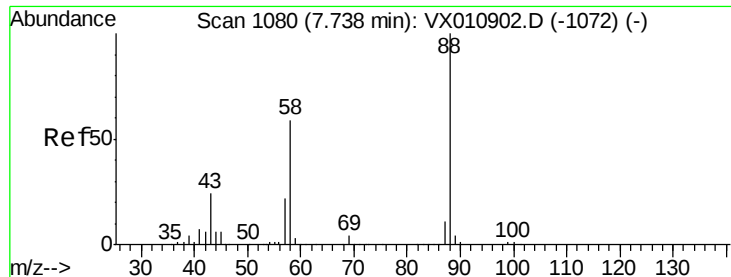
#38  
 Carbon Tetrachloride  
 Concen: 7.478 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX011244.D  
 Acq: 31 Jul 2019 15:43

Tgt Ion: 117 Resp: 21681  
 Ion Ratio Lower Upper  
 117 100  
 119 4.2 74.2 111.2#  
 121 0.0 24.2 36.2#



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

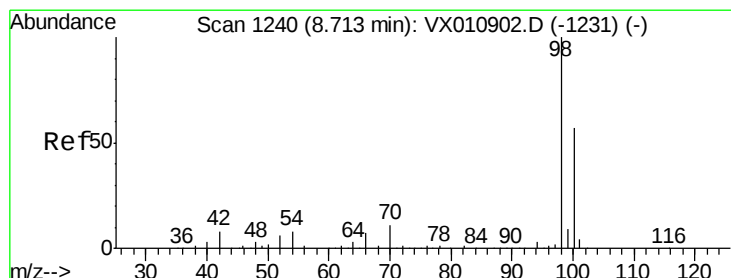
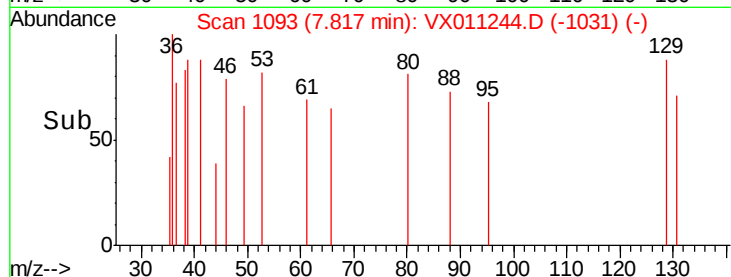
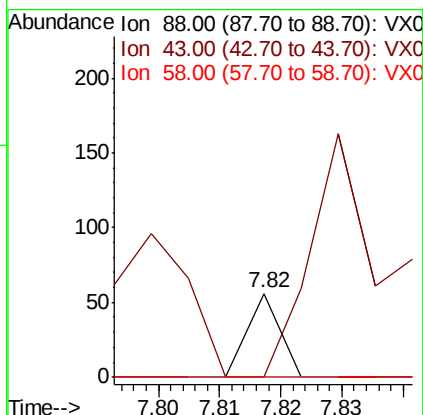
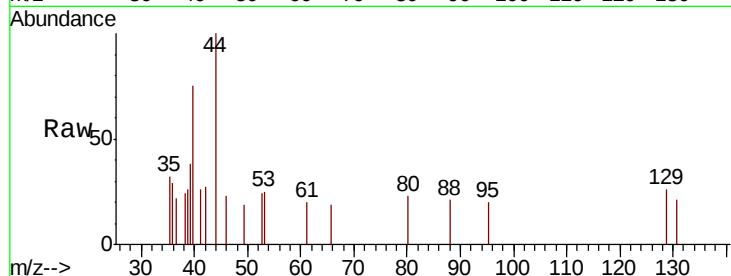




#49  
 1,4-Dioxane  
 Concen: 0.313 ug/l  
 RT: 7.82 min Scan# 1093  
 Delta R.T. 0.08 min  
 Lab File: VX011244.D  
 Acq: 31 Jul 2019 15:43

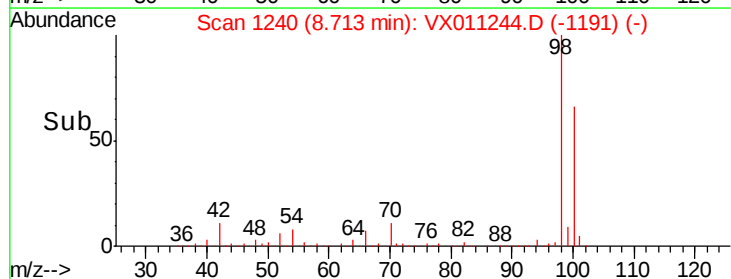
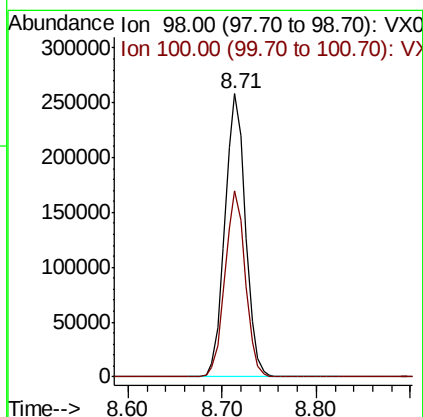
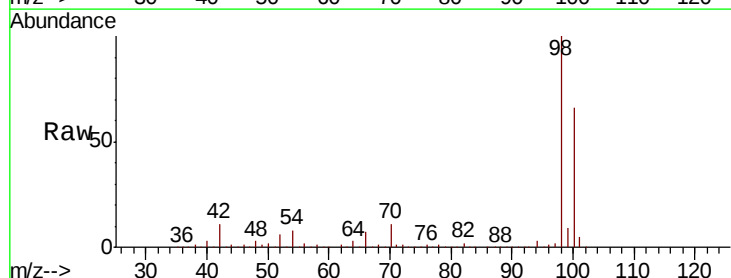
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0731MBL01

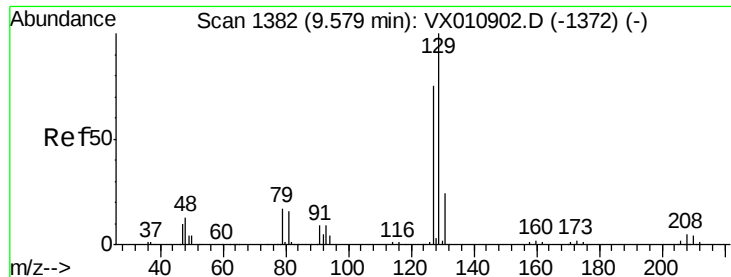
Tgt Ion: 88 Resp: 20  
 Ion Ratio Lower Upper  
 88 100  
 43 770.0 22.9 34.3#  
 58 0.0 49.8 74.8#



#50  
 Toluene-d8  
 Concen: 48.437 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VX011244.D  
 Acq: 31 Jul 2019 15:43

Tgt Ion: 98 Resp: 390579  
 Ion Ratio Lower Upper  
 98 100  
 100 65.0 50.6 75.8





#60

Dibromochloromethane

Concen: 2.543 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Instrument :

MSVOA\_X

ClientSampleId :

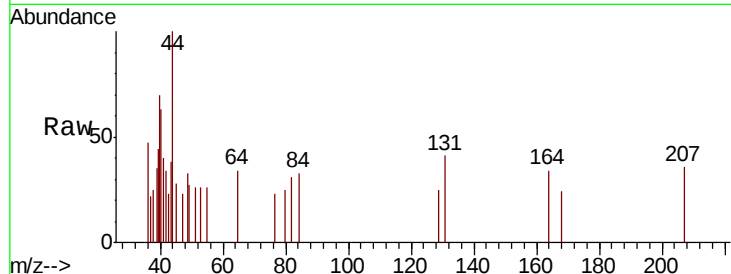
VX0731MBL01

Tgt Ion: 129 Resp: 42

Ion Ratio Lower Upper

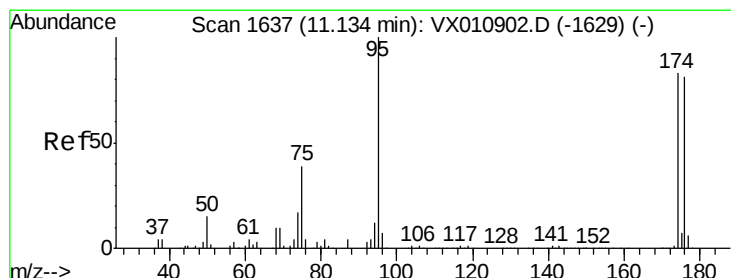
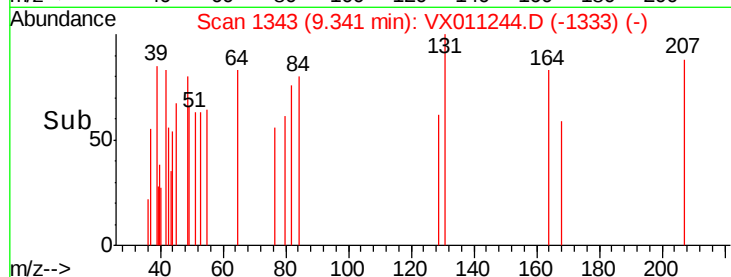
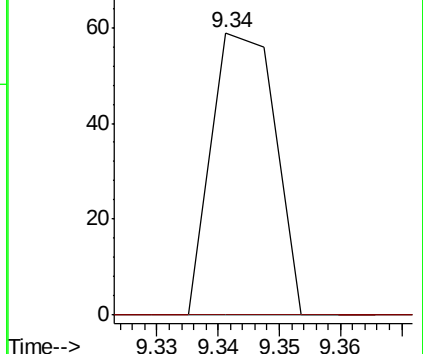
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.706 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

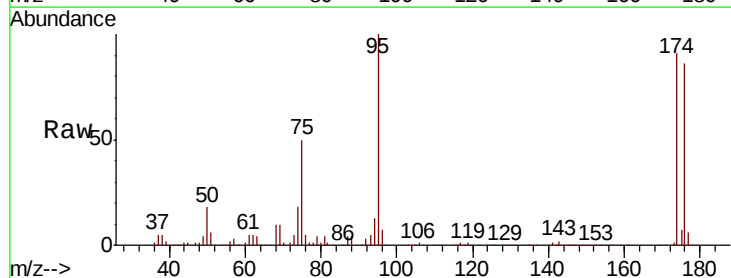
Tgt Ion: 95 Resp: 129542

Ion Ratio Lower Upper

95 100

174 92.9 0.0 180.6

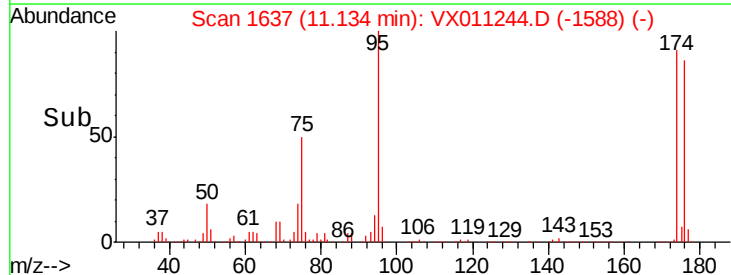
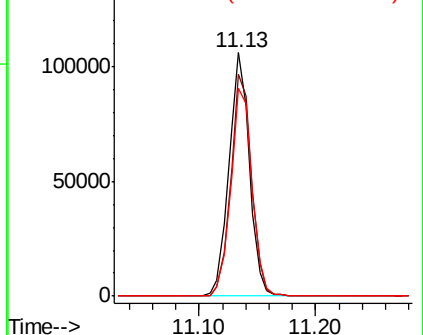
176 89.2 0.0 173.8

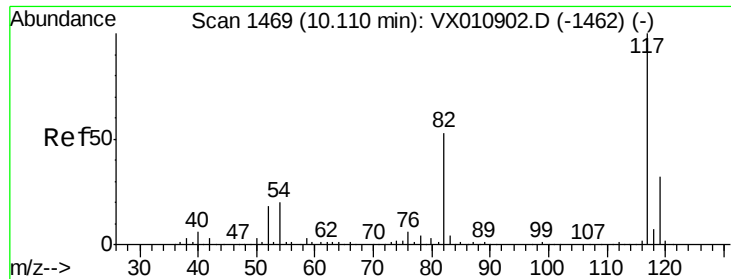


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

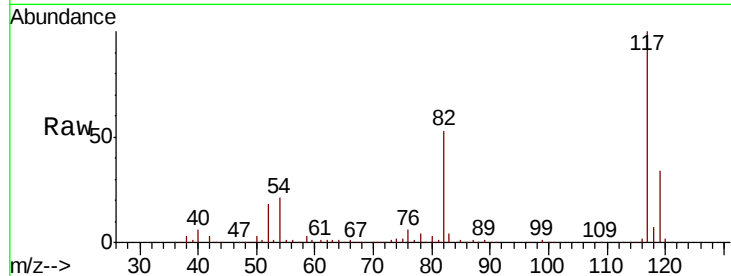




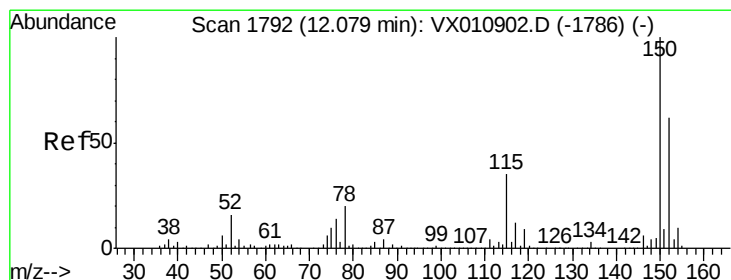
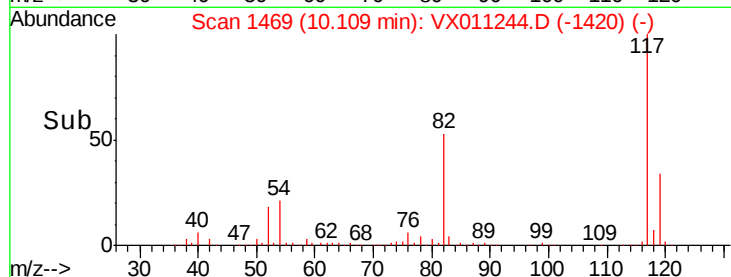
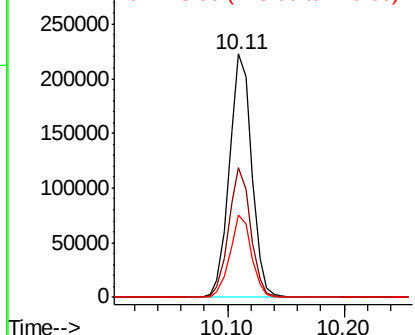
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX011244.D  
Acq: 31 Jul 2019 15:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0731MBL01

Tgt Ion:117 Resp: 297482  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.6 63.8  
119 33.8 25.9 38.9

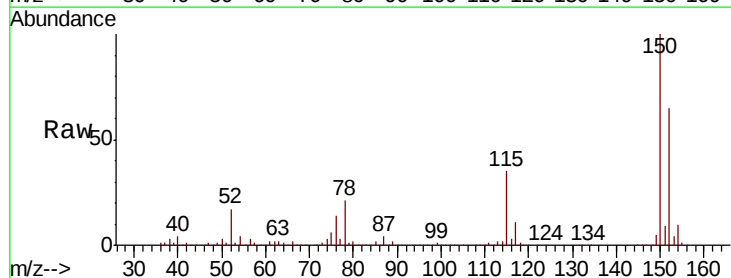


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

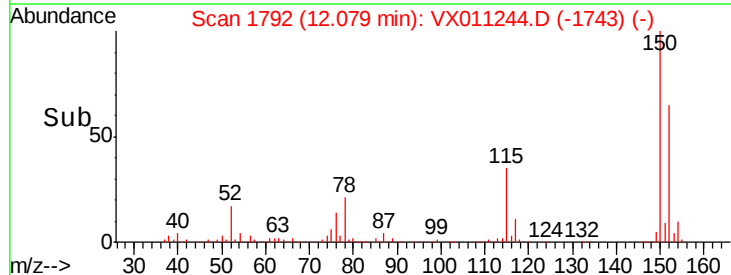
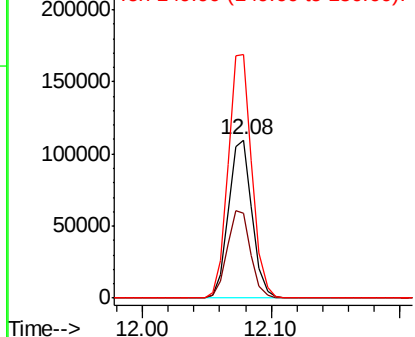


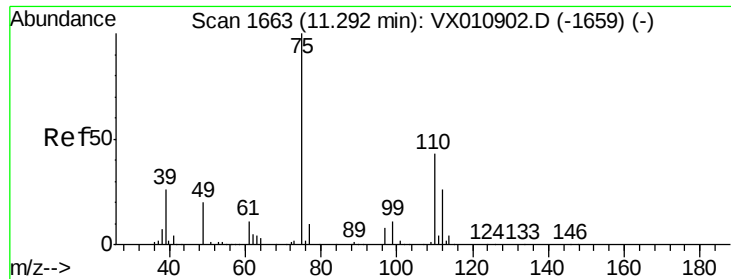
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX011244.D  
Acq: 31 Jul 2019 15:43

Tgt Ion:152 Resp: 140390  
Ion Ratio Lower Upper  
152 100  
115 55.3 39.7 119.1  
150 155.5 0.0 345.6



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: 26.040 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Instrument :

MSVOA\_X

ClientSampleId :

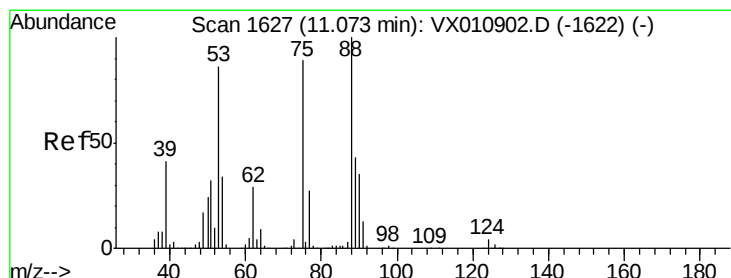
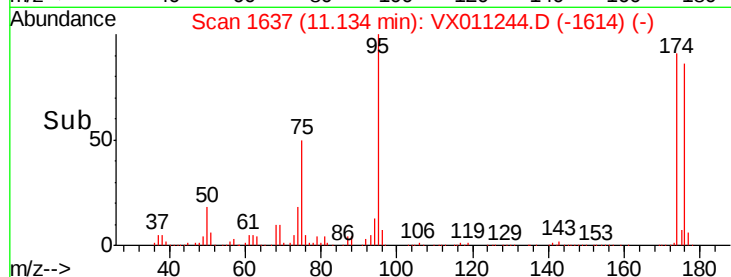
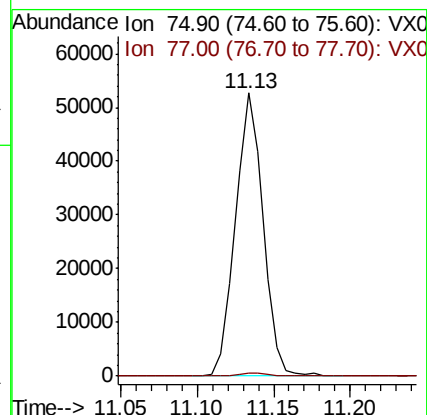
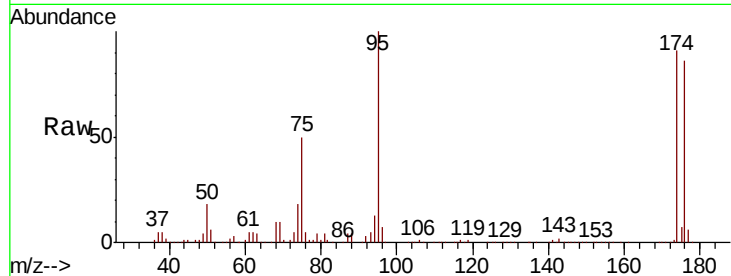
VX0731MBL01

Tgt Ion: 75 Resp: 65969

Ion Ratio Lower Upper

75 100

77 1.2 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.701 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011244.D

Acq: 31 Jul 2019 15:43

Tgt Ion: 75 Resp: 65969

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#

