

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120518\  
 Data File : VX006294.D  
 Acq On : 05 Dec 2018 12:24  
 Operator : JC/MD  
 Sample : J6210-03ME  
 Misc : 5.70g/5mL/100uL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-3(4.5)ME

Quant Time: Dec 06 00:15:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 715605   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1070788  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 981738   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 527220   | 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   | 344962   | 47.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 94.44%  |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 334040   | 48.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 96.36%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1241878  | 49.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.50%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 484378   | 50.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.94% |          |

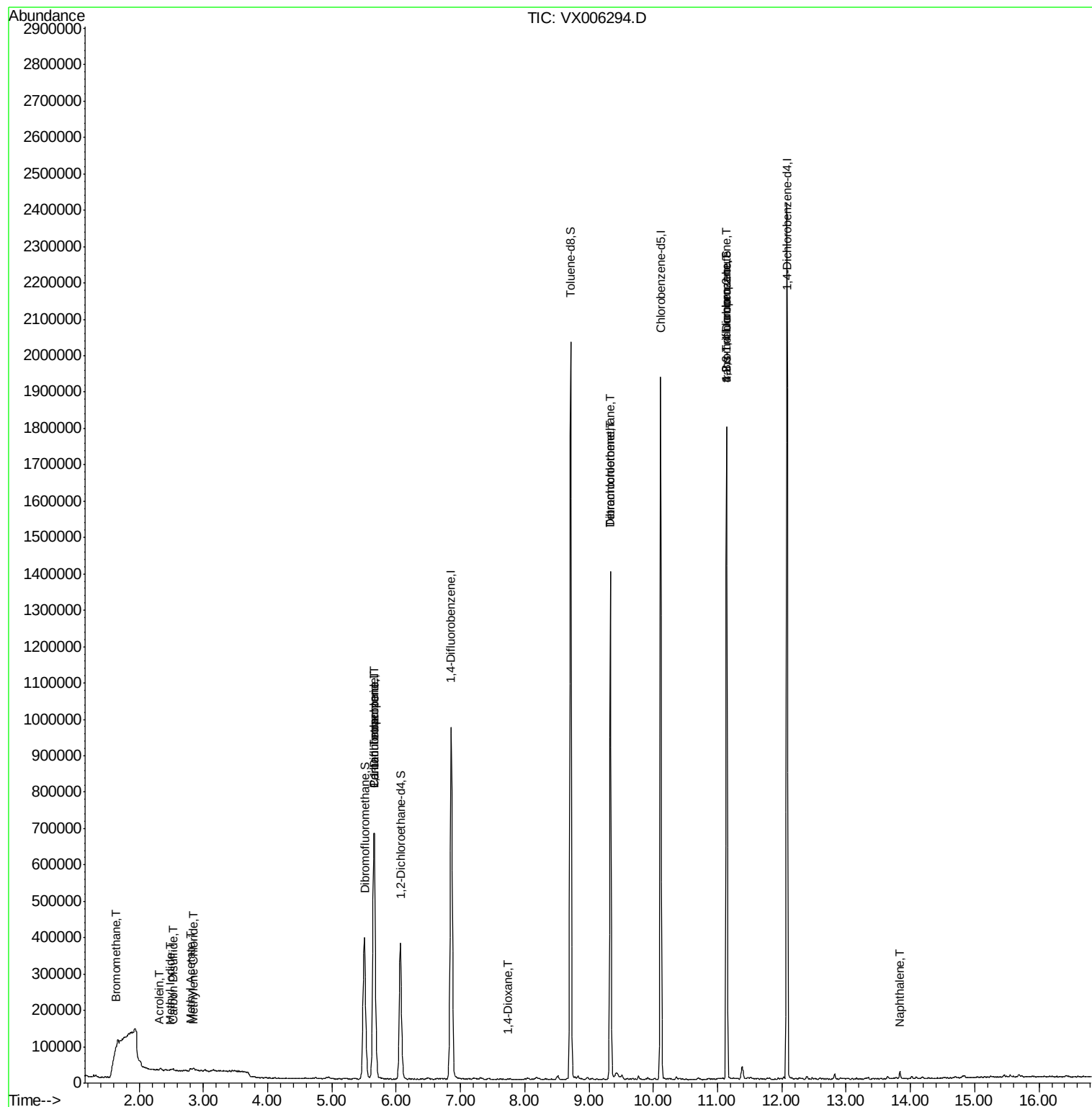
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 2662     | 0.496  | ug/l   | 99     |
| 10) Methyl Iodide              | 2.48  | 142  | 2754     | 0.270  | ug/l # | 95     |
| 13) Acrolein                   | 2.31  | 56   | 490      | 0.449  | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.53  | 76   | 4604     | 0.231  | ug/l # | 85     |
| 18) Methyl Acetate             | 2.81  | 43   | 8182     | 0.714  | ug/l   | 98     |
| 20) Methylene Chloride         | 2.85  | 84   | 3885     | 0.532  | ug/l # | 74     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 45563    | 5.053  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 63233    | 5.961  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 80       | 0.396  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.33  | 129  | 267656   | 30.071 | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 291154   | 39.380 | ug/l   | 100    |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 218770   | 21.498 | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 218770   | 50.450 | ug/l # | 15     |
| 95) Naphthalene                | 13.83 | 128  | 13039    | 0.322  | ug/l   | 99     |

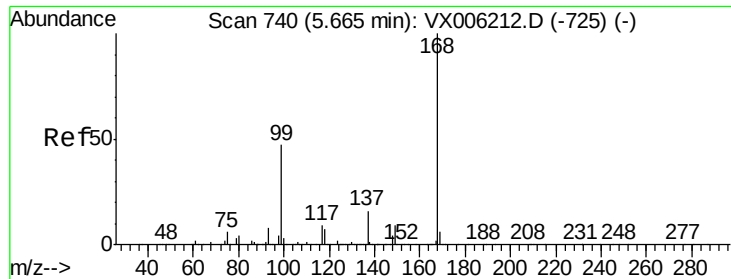
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120518\  
Data File : VX006294.D  
Acq On : 05 Dec 2018 12:24  
Operator : JC/MD  
Sample : J6210-03ME  
Misc : 5.70µL/100uL/5.0mL/MSVOA\_X/MEOH  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleID :  
WC-3(4.5)ME

Quant Time: Dec 06 00:15:10 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 30 03:55:33 2018  
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: VX006294.D

Acq: 05 Dec 2018 12:24

Instrument :

MSVOA\_X

ClientSampleId :

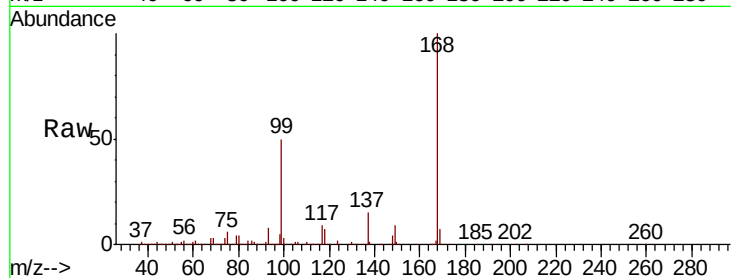
WC-3(4.5)ME

Tot Ion:168 Resp: 715605

Ion Ratio Lower Upper

168 100

99 50.2 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

250000

200000

150000

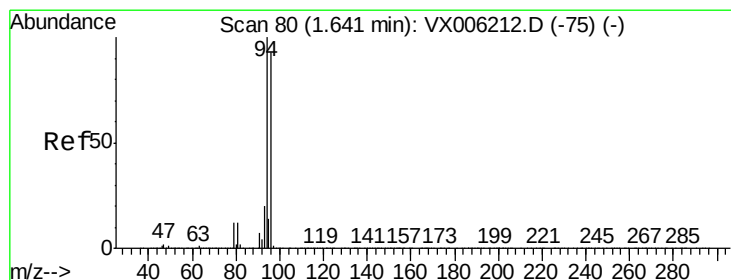
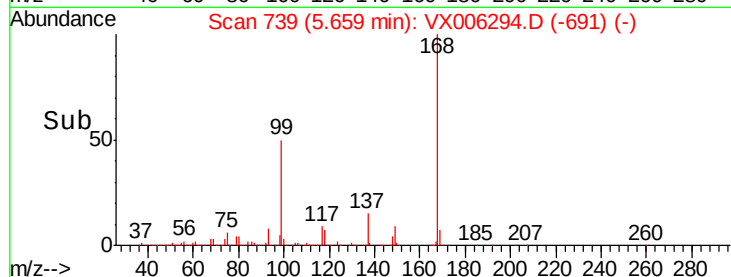
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.496 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006294.D

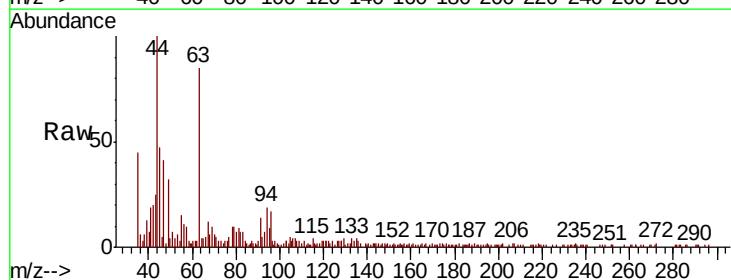
Acq: 05 Dec 2018 12:24

Tgt Ion: 94 Resp: 2662

Ion Ratio Lower Upper

94 100

96 92.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

2000

1500

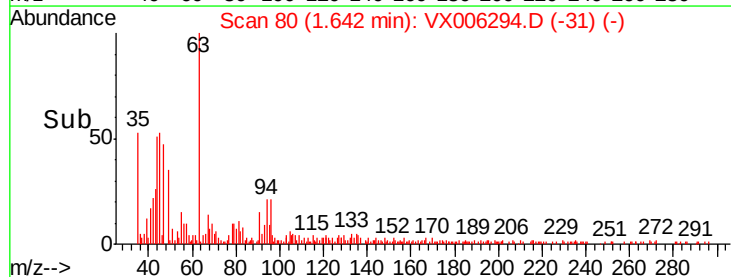
1000

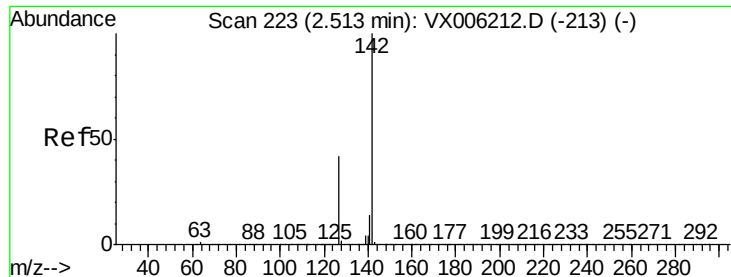
500

0

Time-->

1.55 1.60 1.65

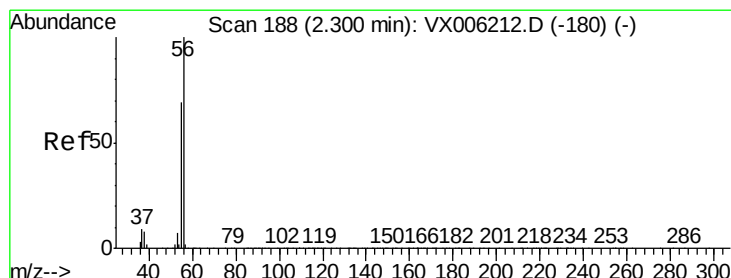
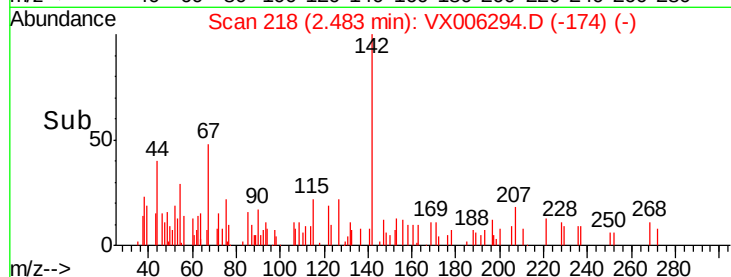
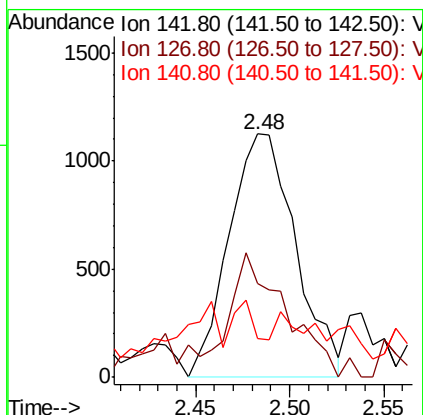
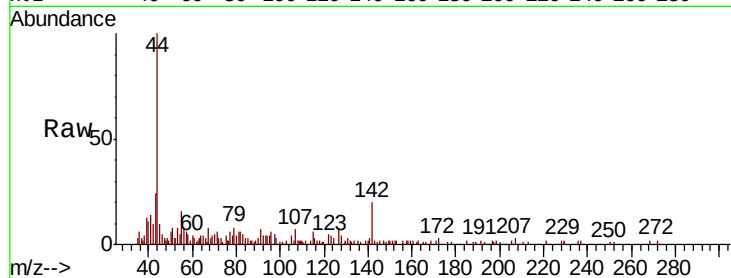




#10  
Methyl Iodide  
Concen: 0.270 ug/l  
RT: 2.48 min Scan# 218  
Delta R.T. -0.03 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

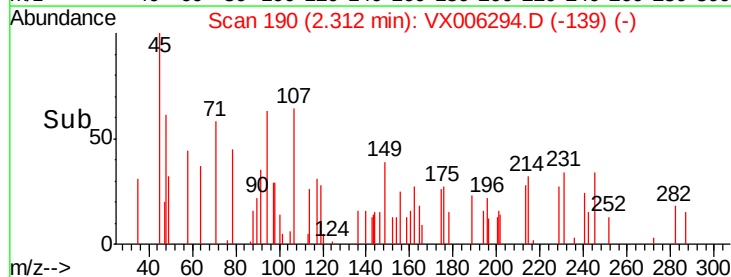
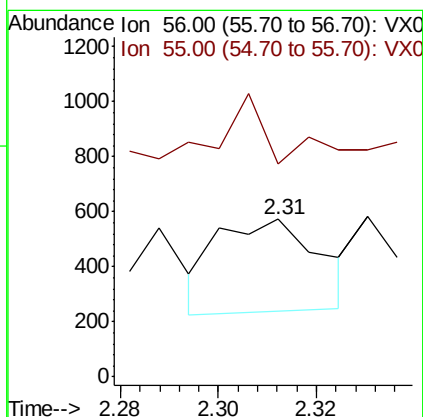
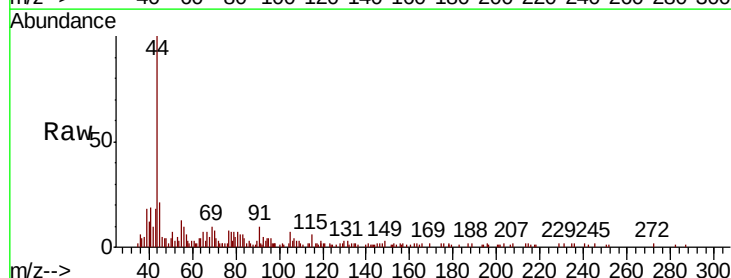
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-3(4.5)ME

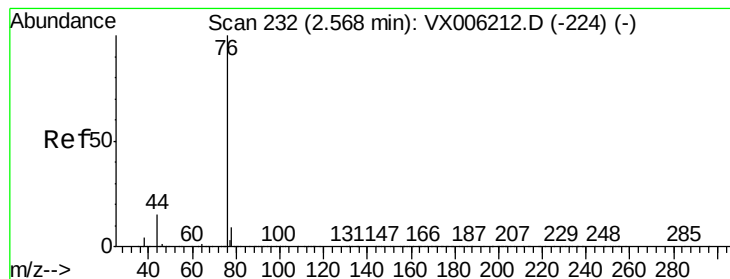
Tot Ion:142 Resp: 2754  
Ion Ratio Lower Upper  
142 100  
127 44.1 34.8 52.2  
141 7.9 11.4 17.2#



#13  
Acrolein  
Concen: 0.449 ug/l  
RT: 2.31 min Scan# 190  
Delta R.T. 0.01 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

Tgt Ion: 56 Resp: 490  
Ion Ratio Lower Upper  
56 100  
55 68.8 57.8 86.6





#17

Carbon Disulfide

Concen: 0.231 ug/l

RT: 2.53 min Scan# 225

Delta R.T. -0.04 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

Instrument :

MSVOA\_X

ClientSampleId :

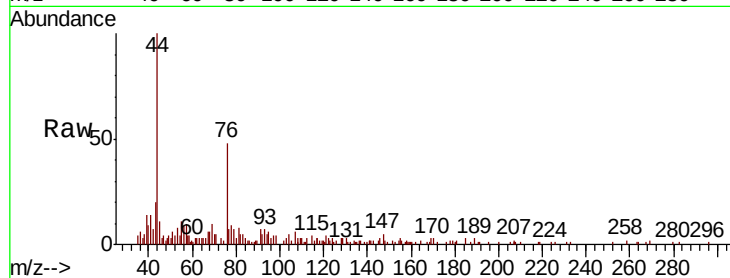
WC-3(4.5)ME

Tot Ion: 76 Resp: 4604

Ion Ratio Lower Upper

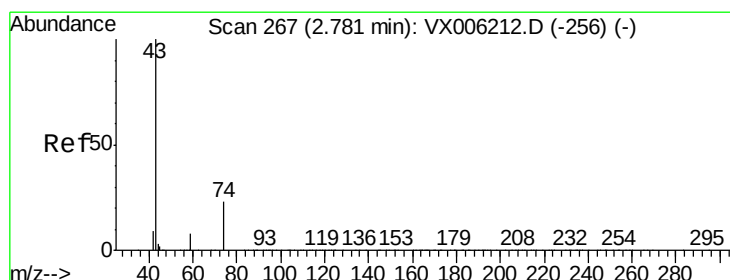
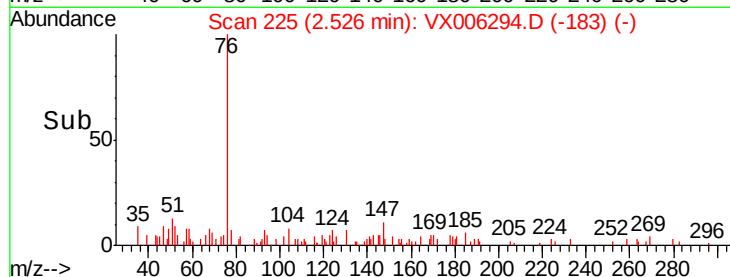
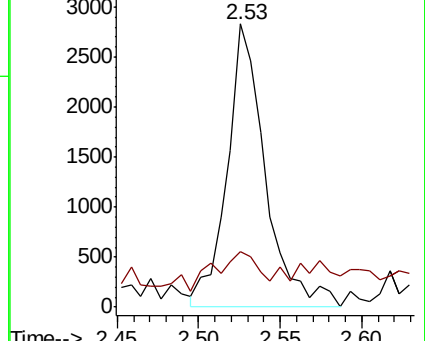
76 100

78 14.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.714 ug/l

RT: 2.81 min Scan# 271

Delta R.T. 0.02 min

Lab File: VX006294.D

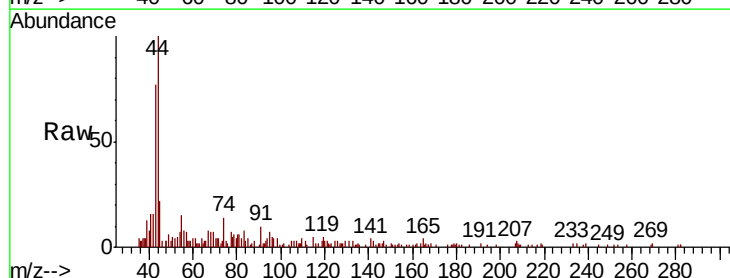
Acq: 05 Dec 2018 12:24

Tgt Ion: 43 Resp: 8182

Ion Ratio Lower Upper

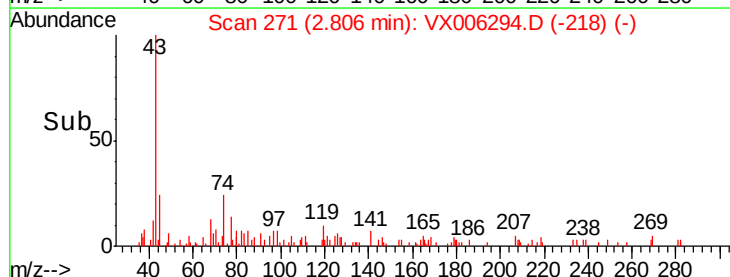
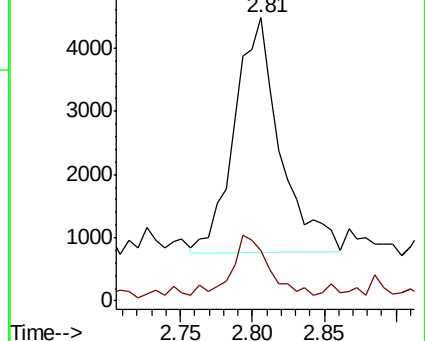
43 100

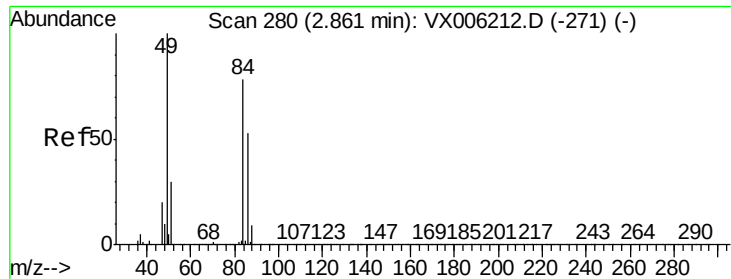
74 21.4 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

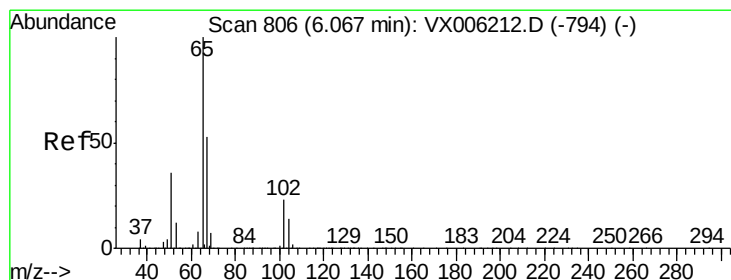
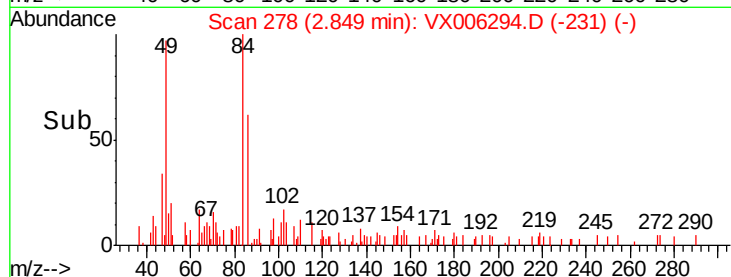
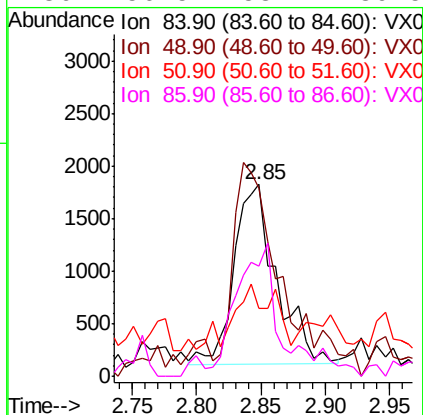
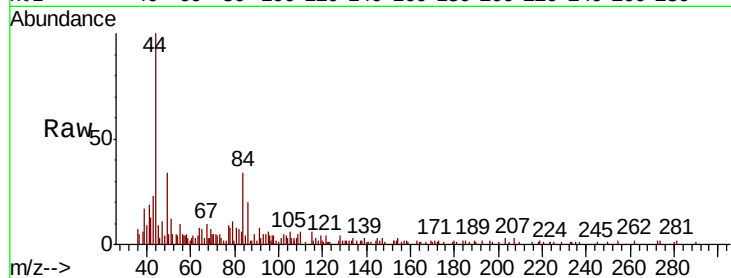




#20  
Methylene Chloride  
Concen: 0.532 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. -0.01 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

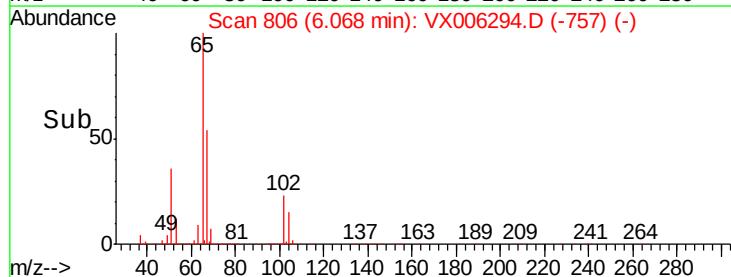
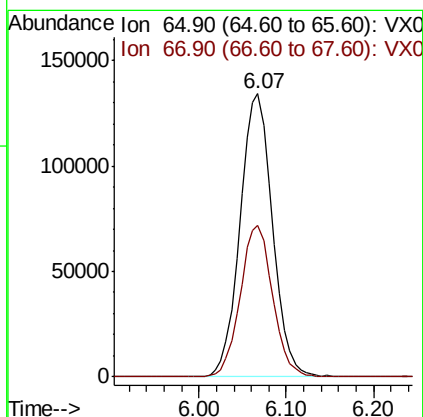
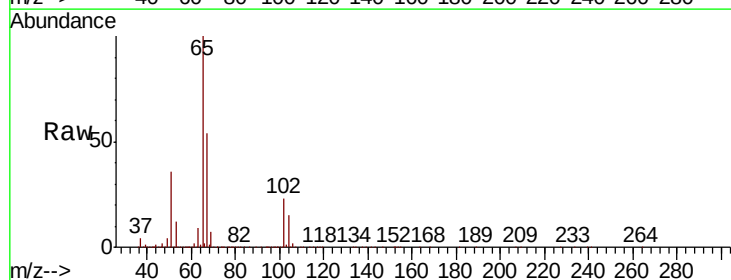
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-3(4.5)ME

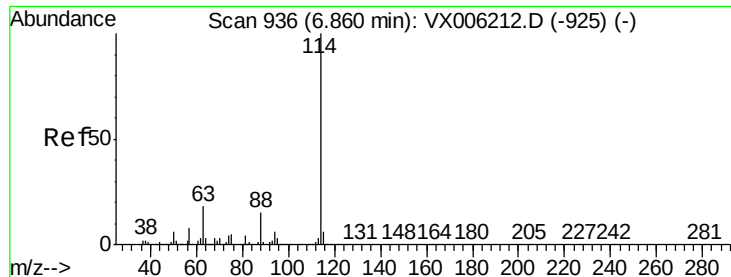
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 3885   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 94.3  | 102.2 | 153.4# |
| 51       | 17.3  | 31.1  | 46.7#  |
| 86       | 56.5  | 53.7  | 80.5   |



#33  
1,2-Dichloroethane-d4  
Concen: 47.222 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 344962 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 53.3  | 0.0   | 107.2  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

Instrument :

MSVOA\_X

ClientSampleId :

WC-3(4.5)ME

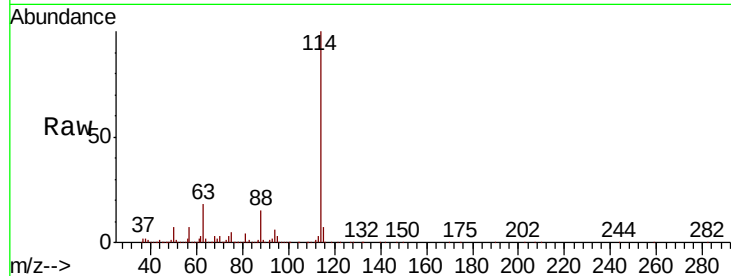
Tot Ion:114 Resp: 1070788

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

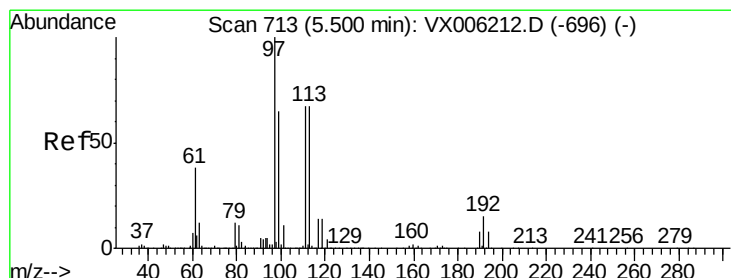
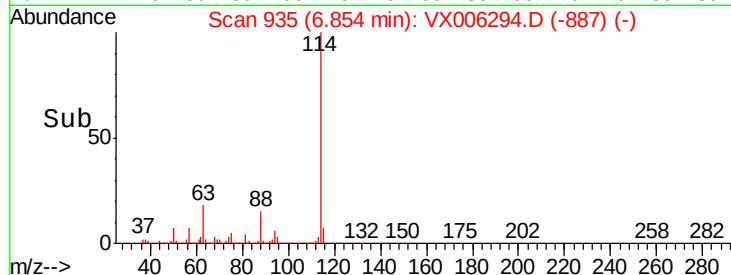
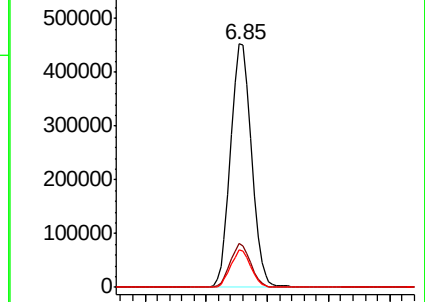
88 15.2 0.0 29.0



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: 48.182 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

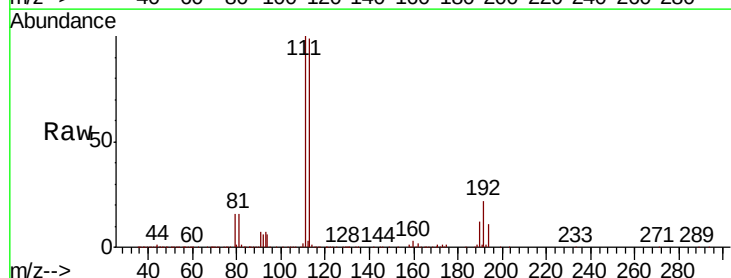
Tgt Ion:113 Resp: 334040

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

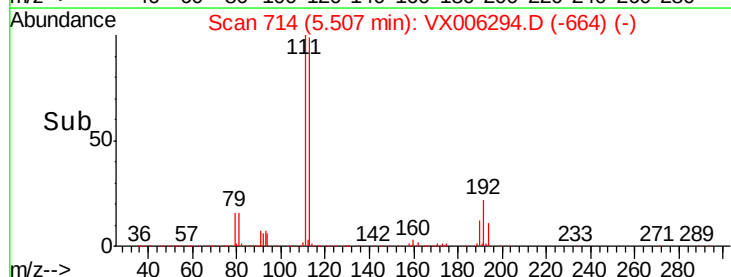
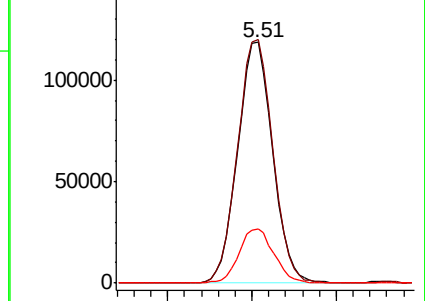
192 22.3 18.2 27.2

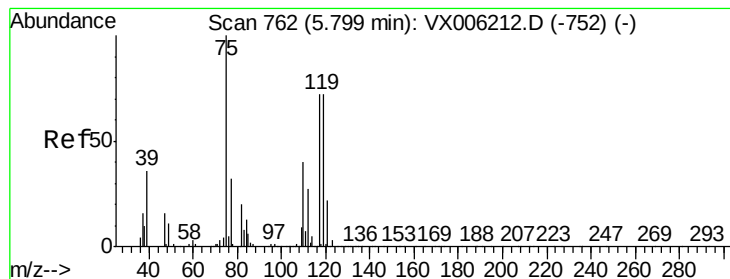


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.053 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

Instrument :

MSVOA\_X

ClientSampleId :

WC-3(4.5)ME

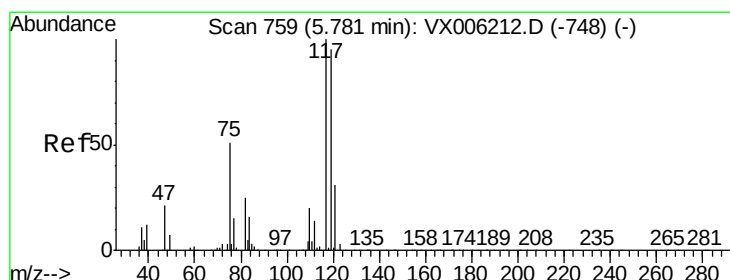
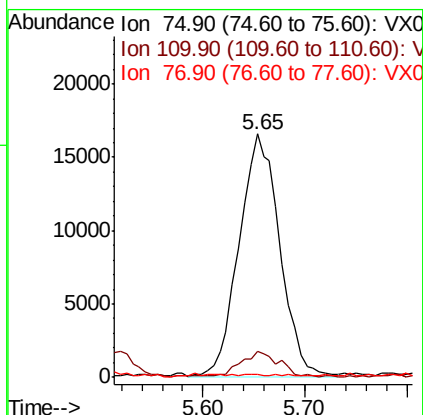
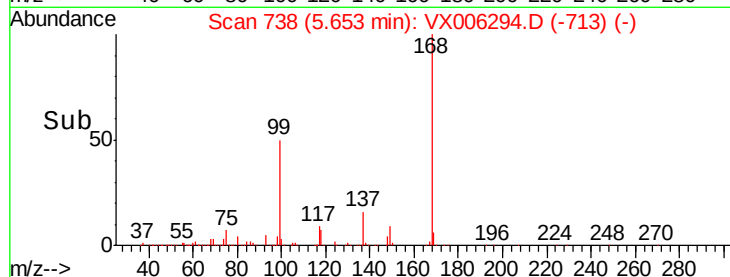
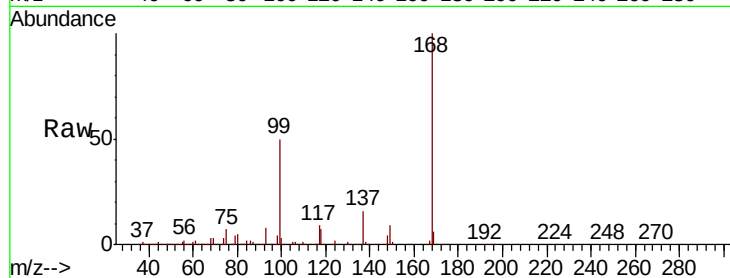
Tot Ion: 75 Resp: 45563

Ion Ratio Lower Upper

75 100

110 10.5 20.4 61.3#

77 0.5 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.961 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

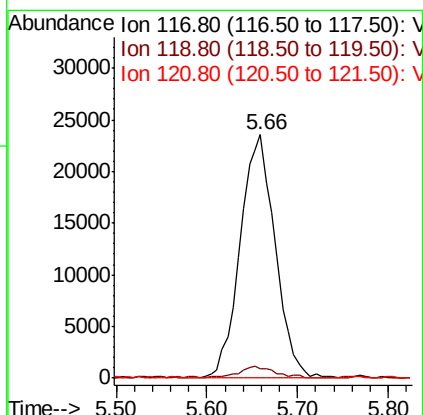
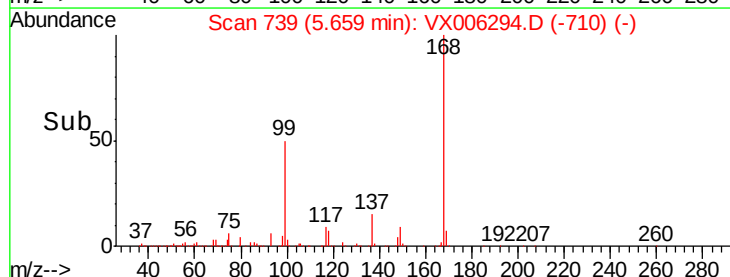
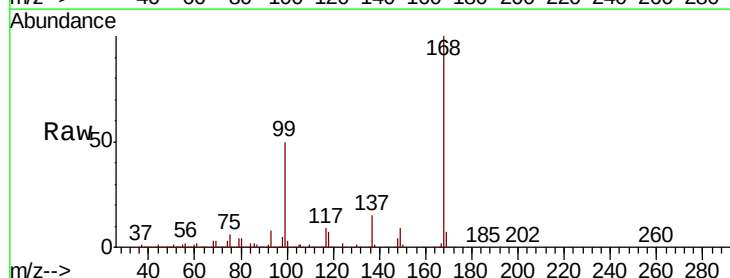
Tgt Ion: 117 Resp: 63233

Ion Ratio Lower Upper

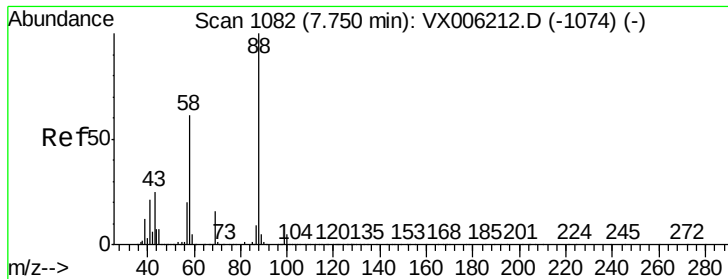
117 100

119 3.7 75.8 113.8#

121 0.0 24.6 37.0#



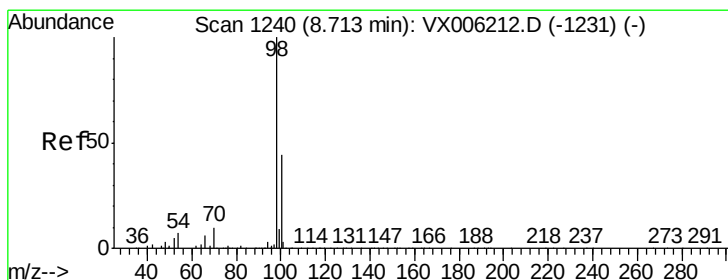
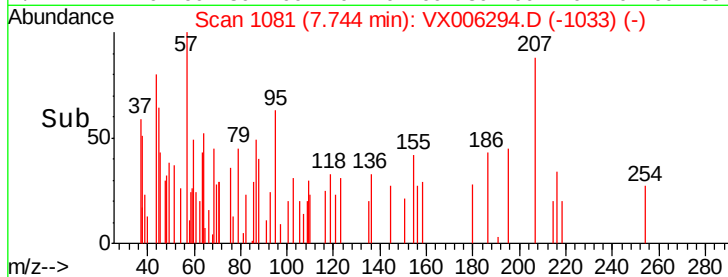
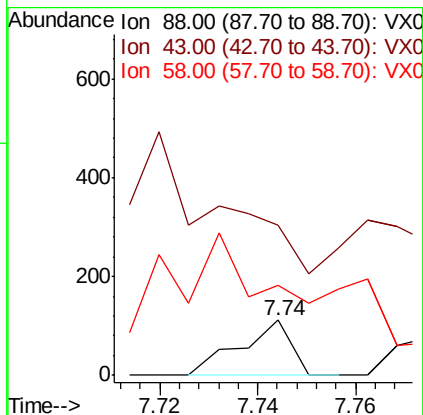
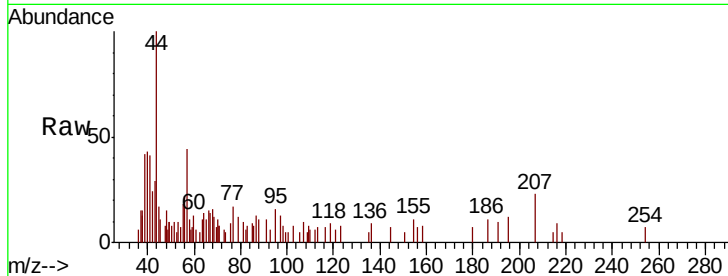




#49  
1,4-Dioxane  
Concen: 0.396 ug/l  
RT: 7.74 min Scan# 1081  
Delta R.T. -0.01 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

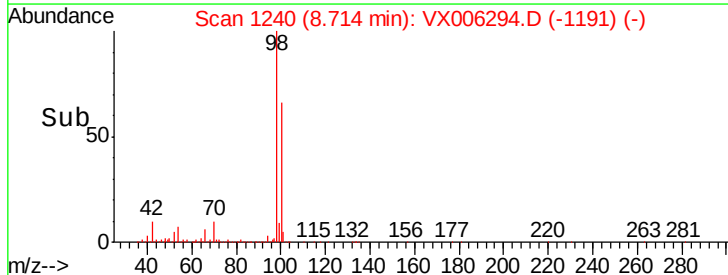
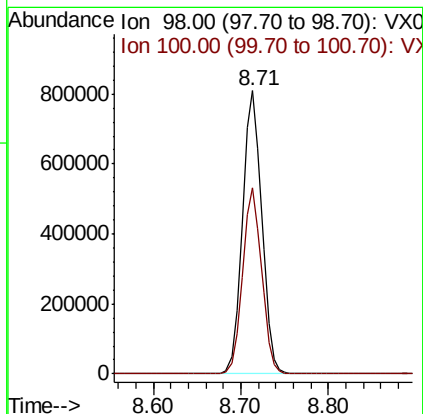
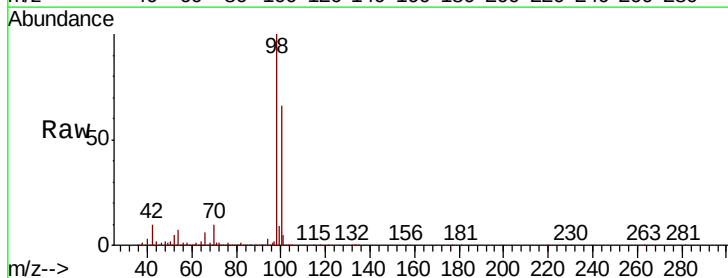
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-3(4.5)ME

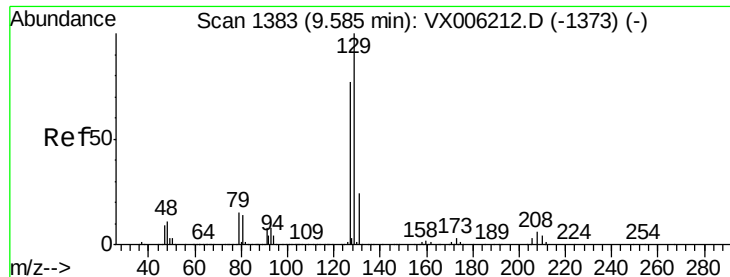
Tot Ion: 88 Resp: 80  
Ion Ratio Lower Upper  
88 100  
43 117.5 23.2 34.8#  
58 0.0 51.4 77.0#



#50  
Toluene-d8  
Concen: 49.246 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

Tgt Ion: 98 Resp: 1241878  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.2 78.2





#60

Dibromochloromethane

Concen: 30.071 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.26 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

Instrument :

MSVOA\_X

ClientSampleId :

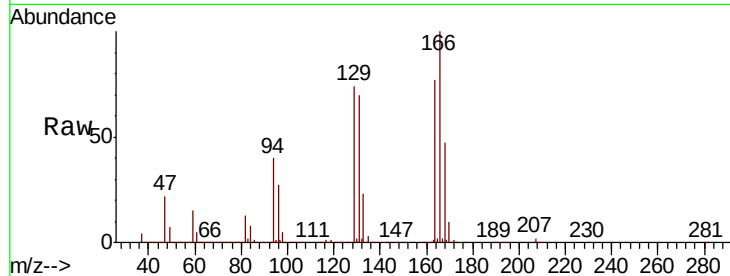
WC-3(4.5)ME

Tot Ion:129 Resp: 267656

Ion Ratio Lower Upper

129 100

127 0.1 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

200000

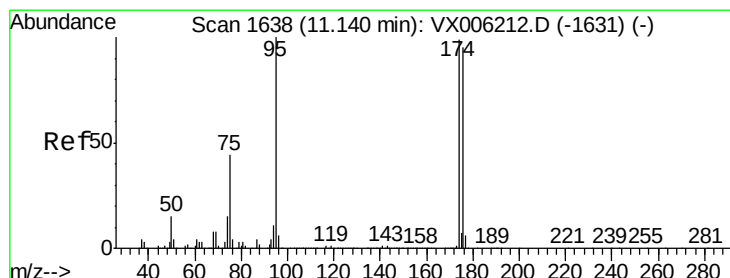
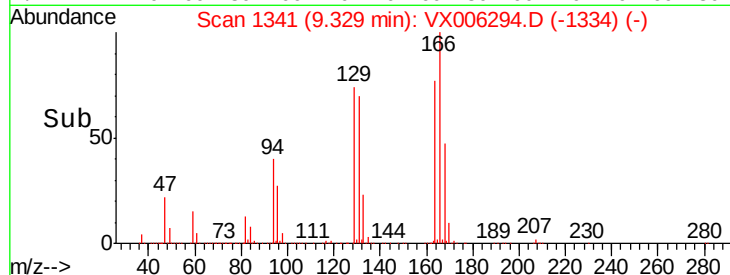
150000

100000

50000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 50.972 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

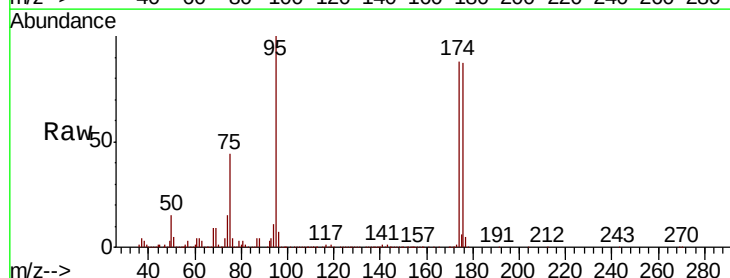
Tgt Ion: 95 Resp: 484378

Ion Ratio Lower Upper

95 100

174 90.0 0.0 187.0

176 87.8 0.0 181.8



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

500000

400000

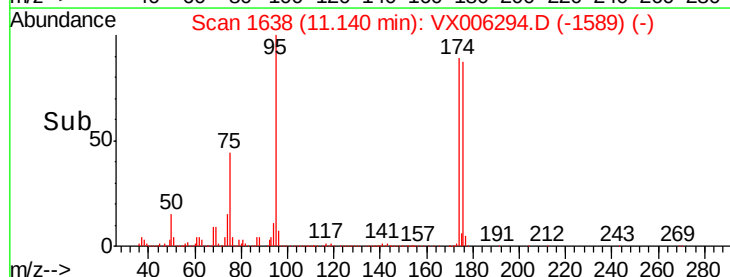
300000

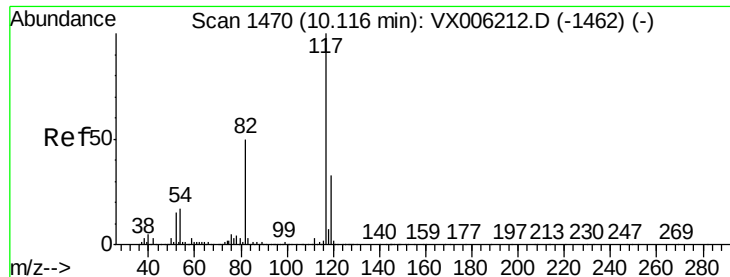
200000

100000

0

Time--> 11.10 11.20

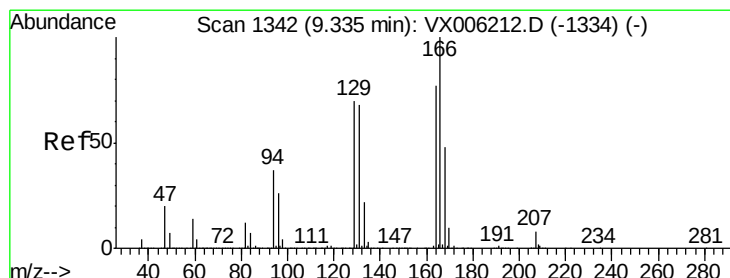
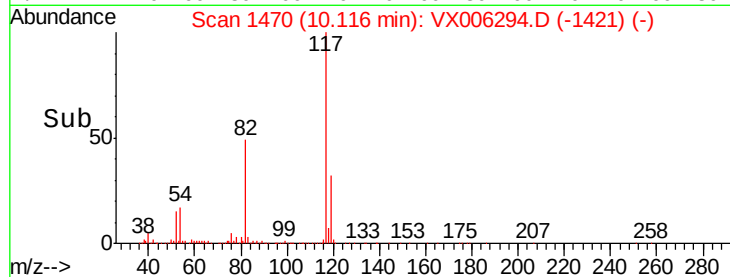
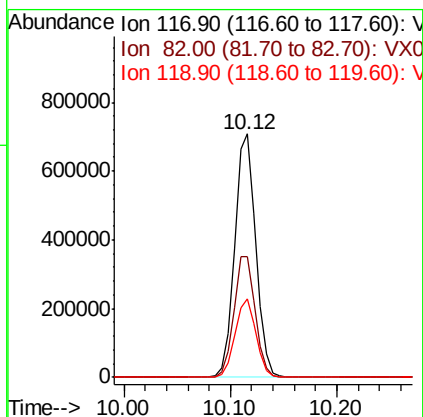
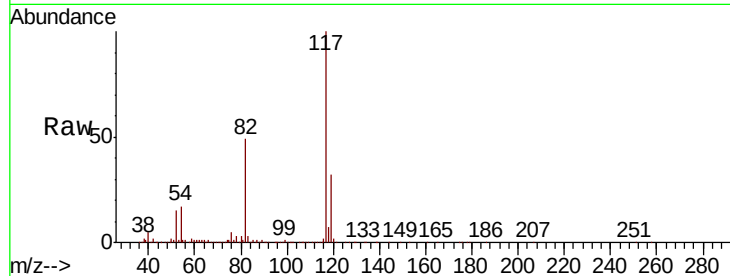




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

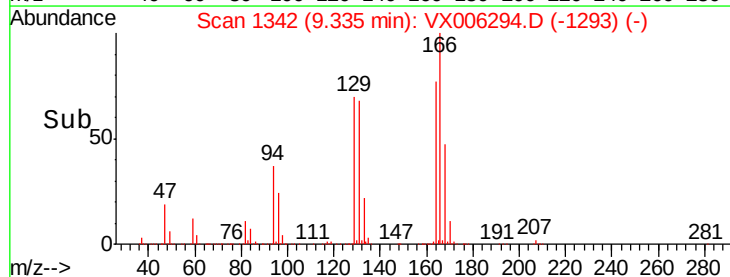
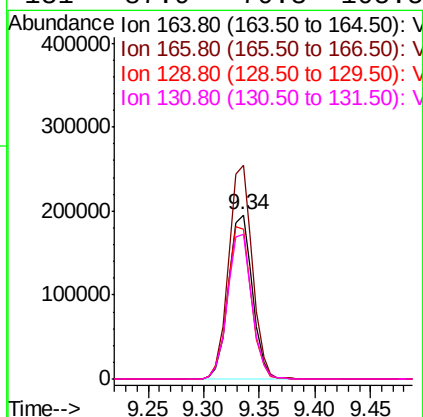
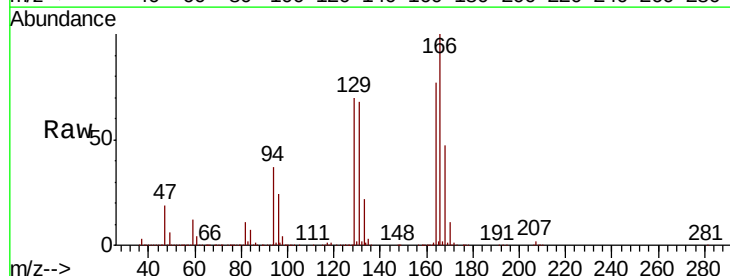
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-3(4.5)ME

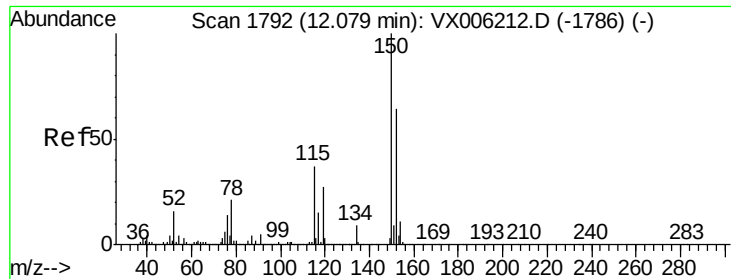
Tot Ion:117 Resp: 981738  
Ion Ratio Lower Upper  
117 100  
82 49.5 39.6 59.4  
119 32.1 26.3 39.5



#64  
Tetrachloroethene  
Concen: 39.380 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX006294.D  
Acq: 05 Dec 2018 12:24

Tgt Ion:164 Resp: 291154  
Ion Ratio Lower Upper  
164 100  
166 130.1 104.2 156.2  
129 91.0 72.6 108.8  
131 87.9 70.3 105.5

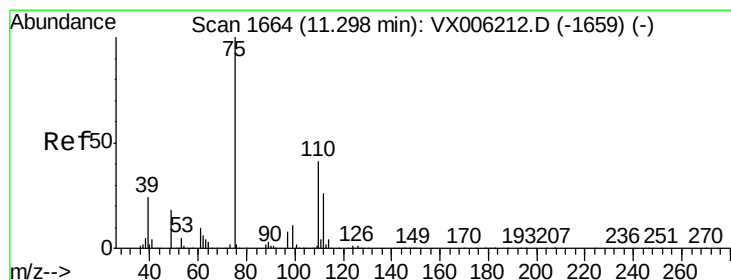
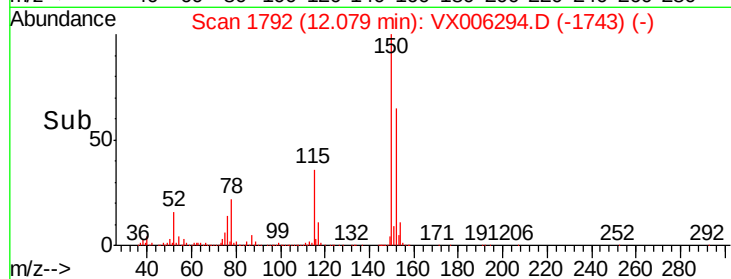
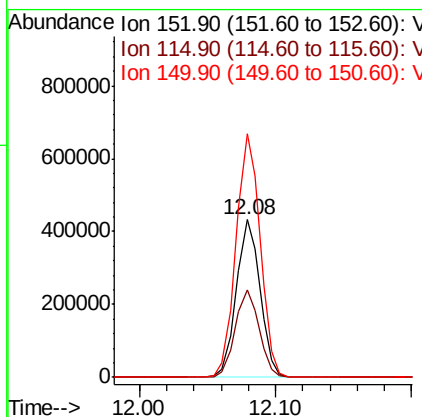
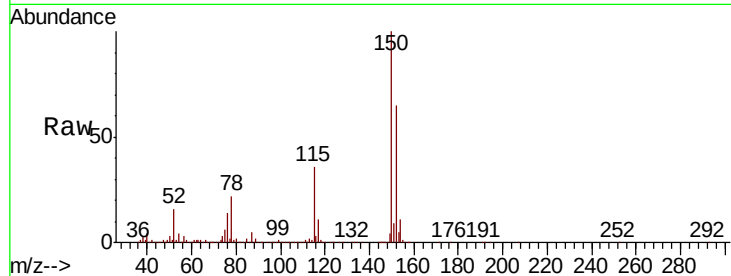




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX006294.D  
 Acq: 05 Dec 2018 12:24

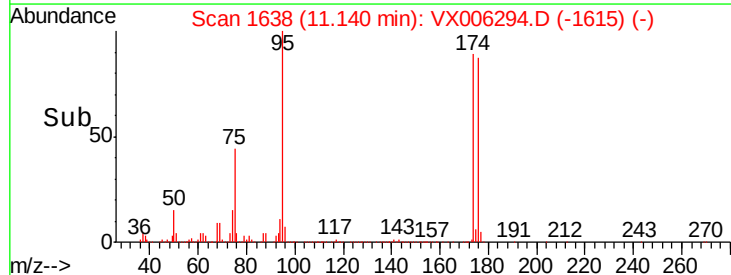
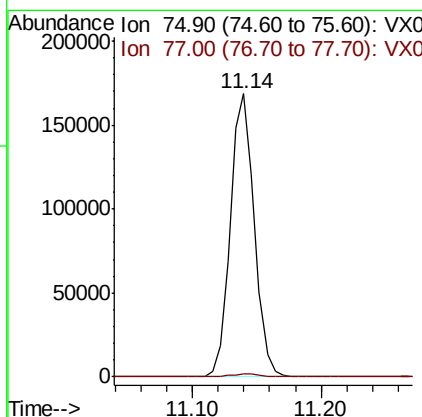
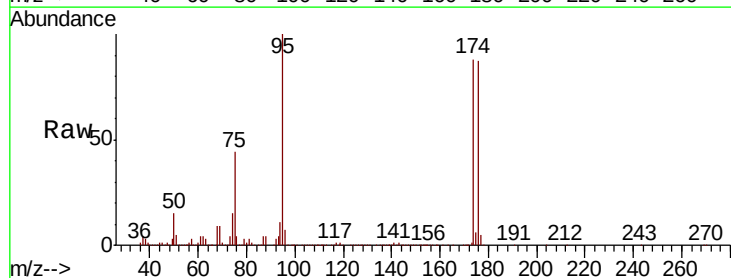
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 WC-3(4.5)ME

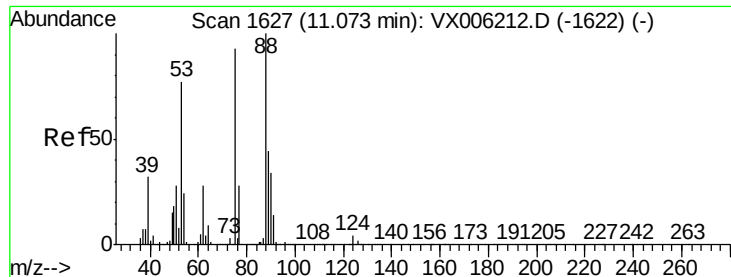
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.9  | 39.0  | 116.9 |
| 150     | 156.6 | 0.0   | 345.8 |



#76  
 1,2,3-Trichloropropane  
 Concen: 21.498 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX006294.D  
 Acq: 05 Dec 2018 12:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.3   | 19.9  | 59.7# |





#81

trans-1,4-Dichloro-2-butene

Concen: 50.450 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

Instrument :

MSVOA\_X

ClientSampleId :

WC-3(4.5)ME

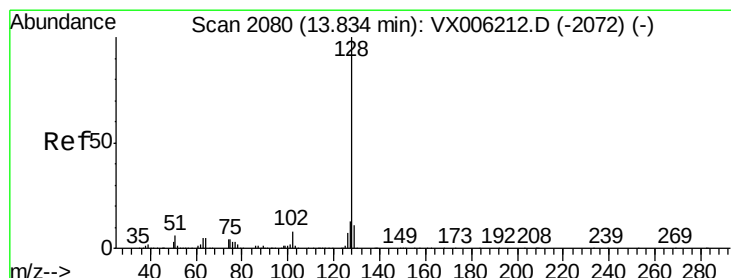
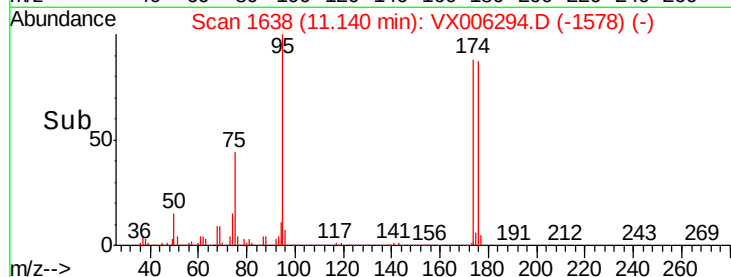
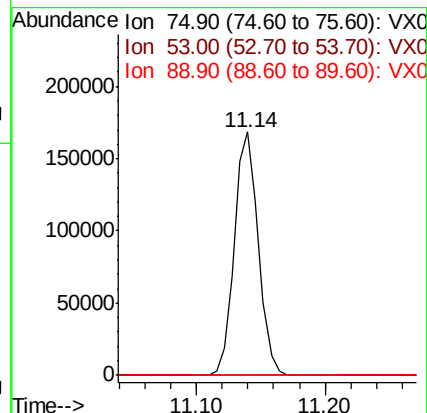
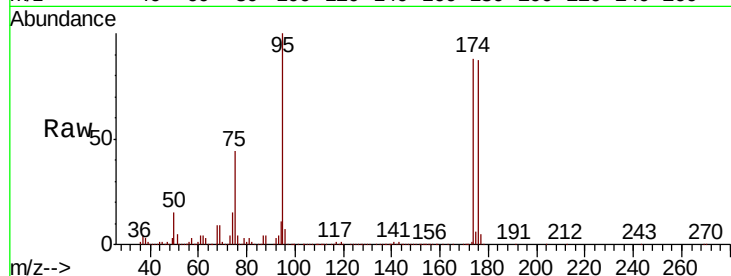
Tot Ion: 75 Resp: 218770

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 44.2 66.4#



#95

Naphthalene

Concen: 0.322 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006294.D

Acq: 05 Dec 2018 12:24

Tgt Ion: 128 Resp: 13039

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

129 11.5 8.9 13.3

