

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\  
 Data File : VX010467.D  
 Acq On : 26 Jun 2019 16:56  
 Operator : JC/SP  
 Sample : K3527-13  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CPA-CPMW10S-M24W1-062219

Quant Time: Jun 27 01:13:48 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  | 249875   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 390071   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 350870   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 166407   | 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   | 120158   | 51.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.58% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 119864   | 50.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.44% |          |
| 50) Toluene-d8              | 8.71  | 98   | 456830   | 50.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.06% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 154128   | 46.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.52%  |          |

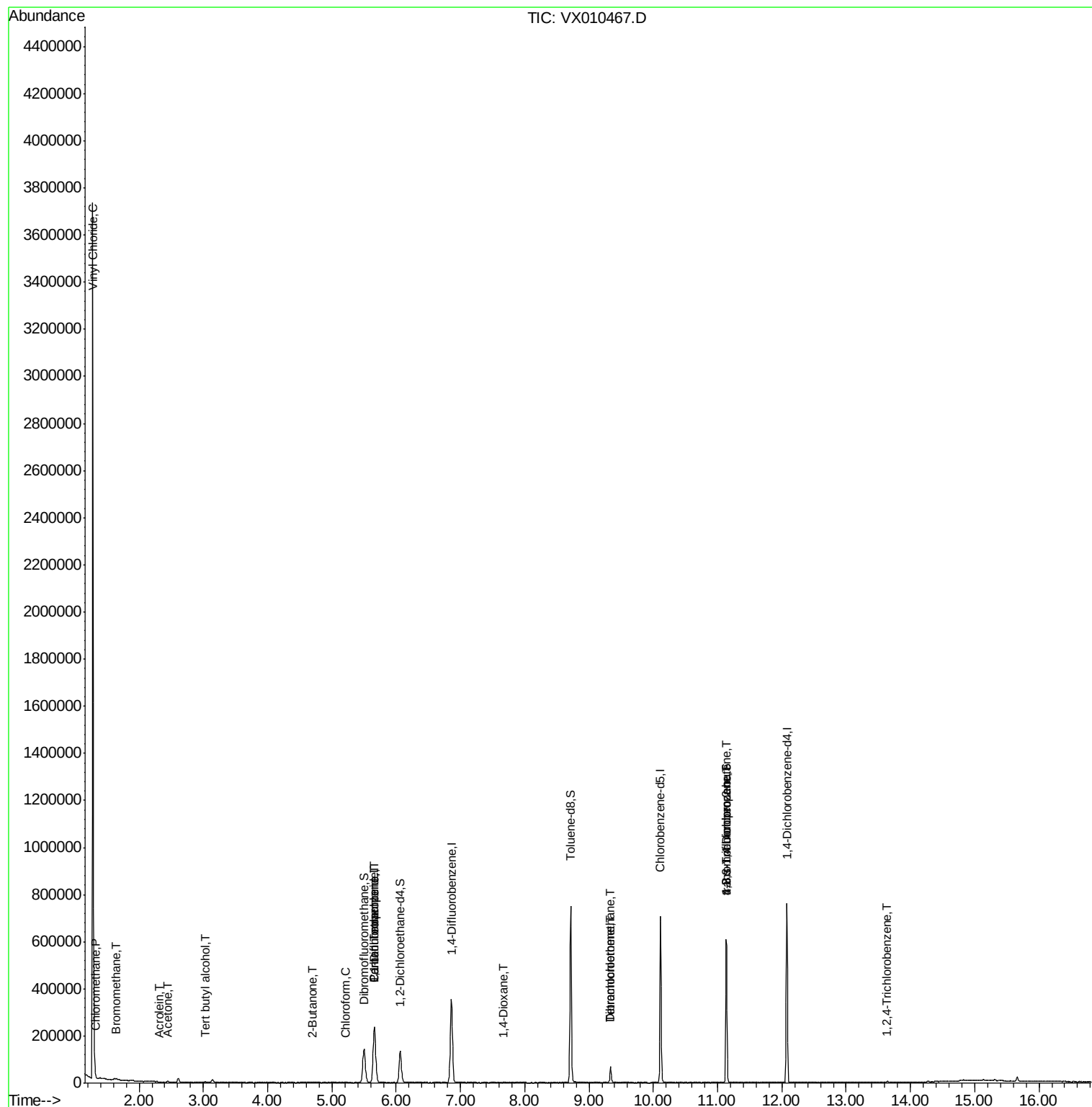
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1911     | 0.945  | ug/l   | 89     |
| 4) Vinyl Chloride              | 1.28  | 62   | 49497    | 22.340 | ug/l # | 44     |
| 5) Bromomethane                | 1.65  | 94   | 3146     | 2.915  | ug/l   | 85     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 3093     | 5.045  | ug/l # | 85     |
| 13) Acrolein                   | 2.31  | 56   | 241      | 0.593  | ug/l # | 14     |
| 16) Acetone                    | 2.44  | 43   | 5118     | 4.359  | ug/l   | 94     |
| 25) 2-Butanone                 | 4.68  | 43   | 357      | 0.207  | ug/l # | 46     |
| 30) Chloroform                 | 5.21  | 83   | 989      | 0.247  | ug/l   | 87     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 15596    | 5.031  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 21954    | 6.541  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.68  | 88   | 42       | 0.595  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.33  | 129  | 12366    | 4.211  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.33  | 164  | 14034    | 4.945  | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 74303    | 24.503 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 74303    | 57.164 | ug/l # | 16     |
| 93) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 1415     | 0.373  | ug/l   | 93     |

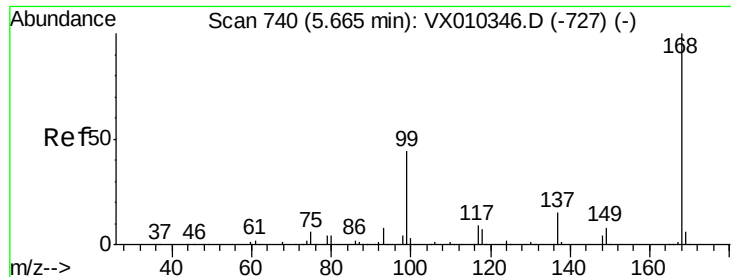
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 27 01:13:48 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: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

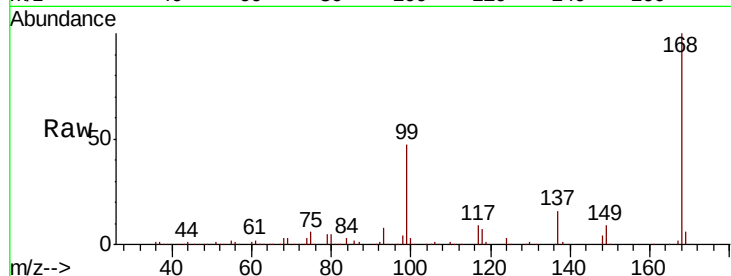
CPA-CPMW10S-M24W1-062219

Tot Ion:168 Resp: 249875

Ion Ratio Lower Upper

168 100

99 46.7 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

80000

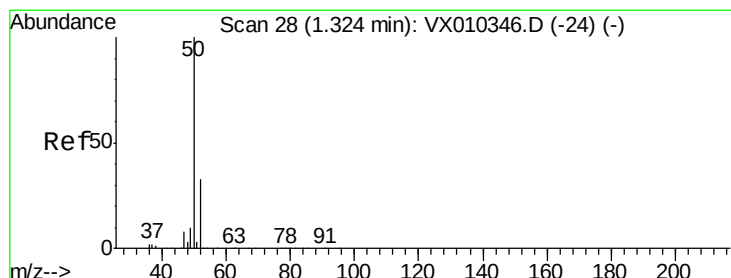
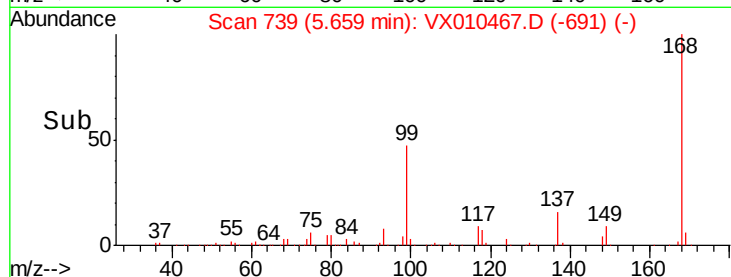
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.945 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010467.D

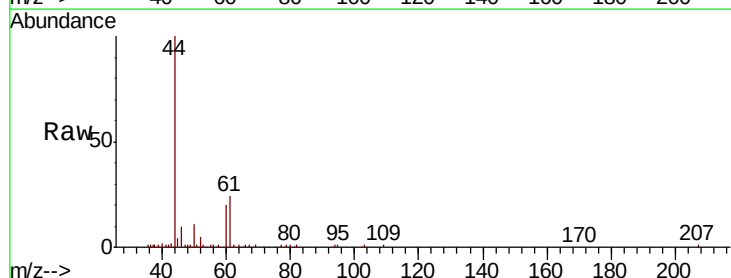
Acq: 26 Jun 2019 16:56

Tgt Ion: 50 Resp: 1911

Ion Ratio Lower Upper

50 100

52 39.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

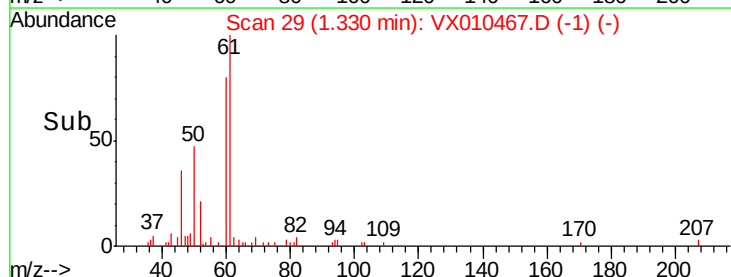
1500

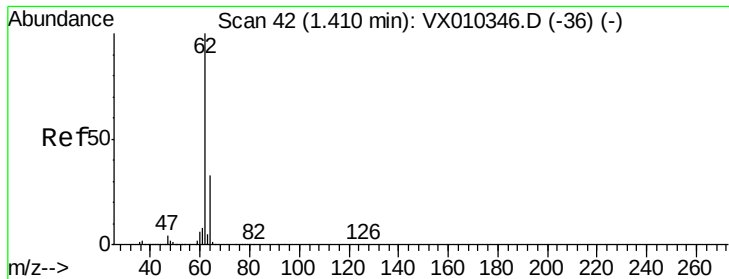
1000

500

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 22.340 ug/l

RT: 1.28 min Scan# 20

Delta R.T. -0.13 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

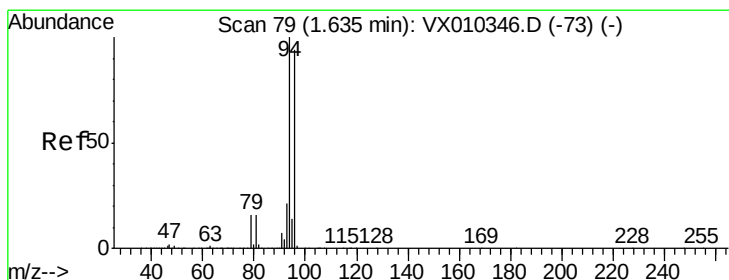
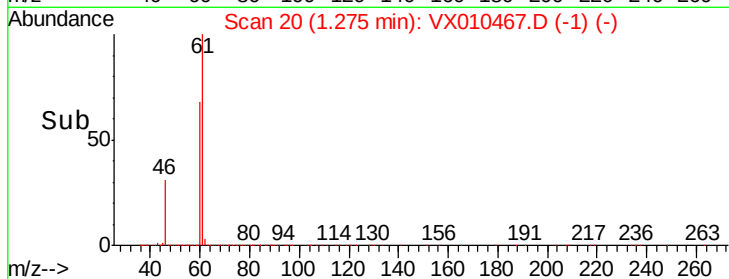
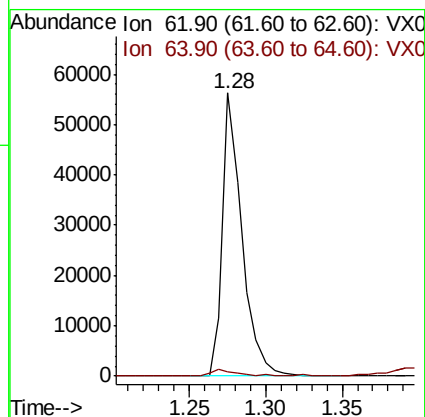
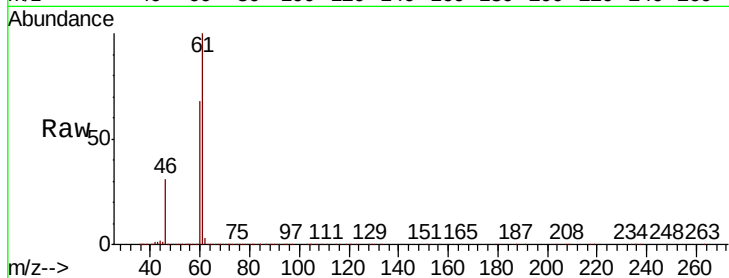
CPA-CPMW10S-M24W1-062219

Tot Ion: 62 Resp: 49497

Ion Ratio Lower Upper

62 100

64 1.4 26.2 39.4#



#5

Bromomethane

Concen: 2.915 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010467.D

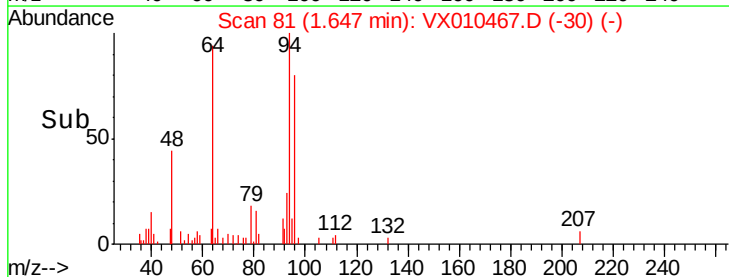
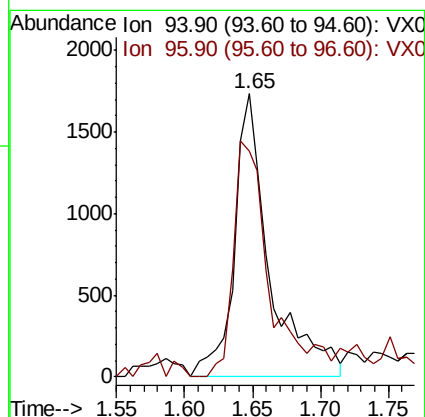
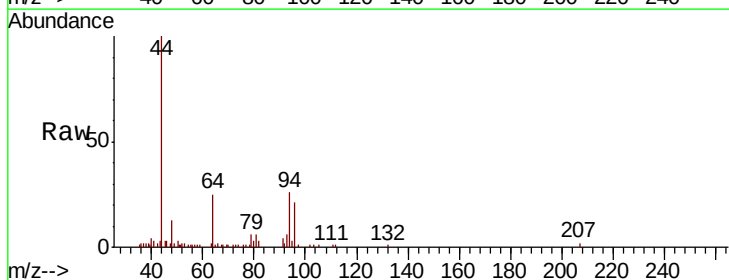
Acq: 26 Jun 2019 16:56

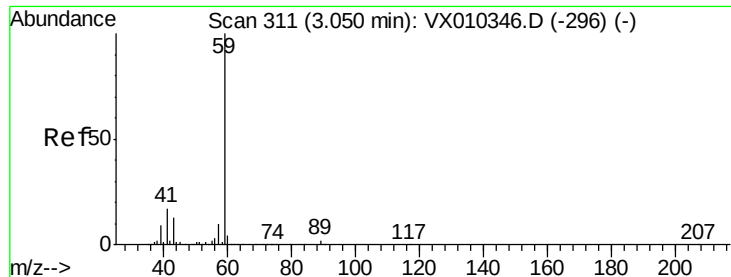
Tgt Ion: 94 Resp: 3146

Ion Ratio Lower Upper

94 100

96 79.9 75.5 113.3



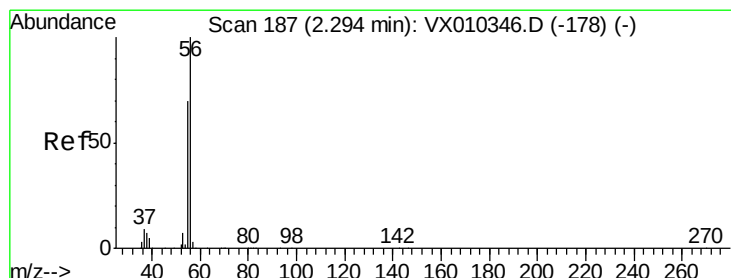
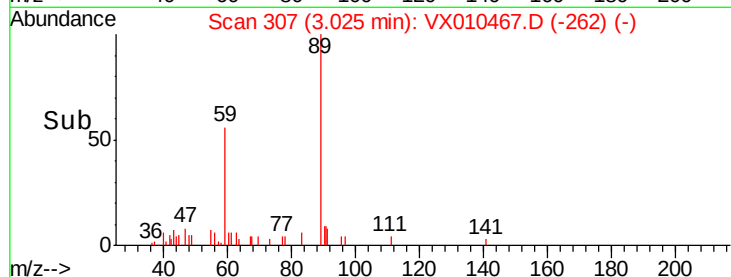
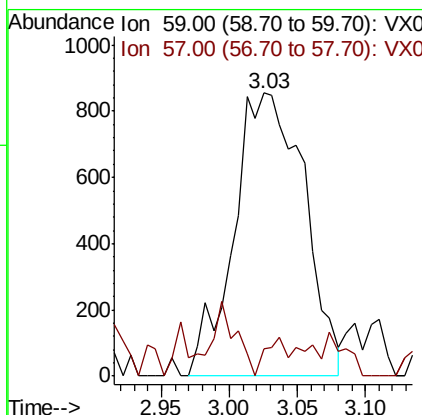
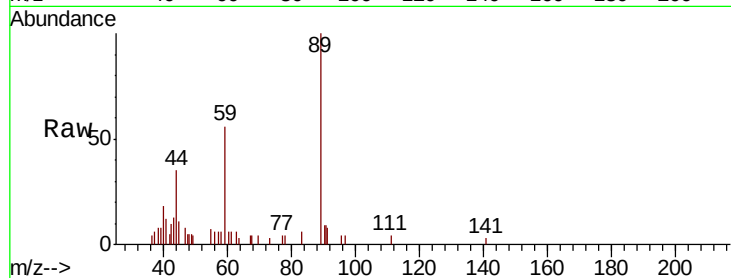


#11

Tert butyl alcohol  
Concen: 5.045 ug/l  
RT: 3.03 min Scan# 307  
Delta R.T. -0.02 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW10S-M24W1-062219

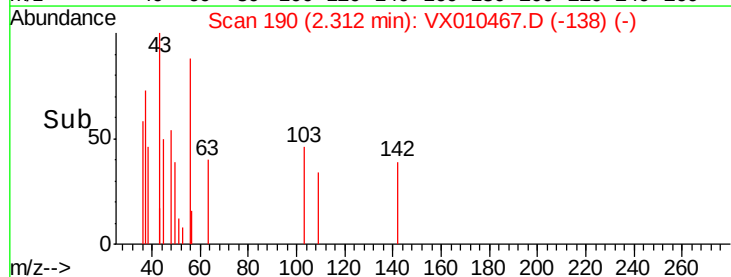
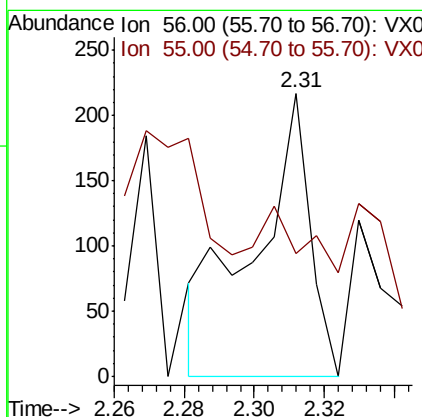
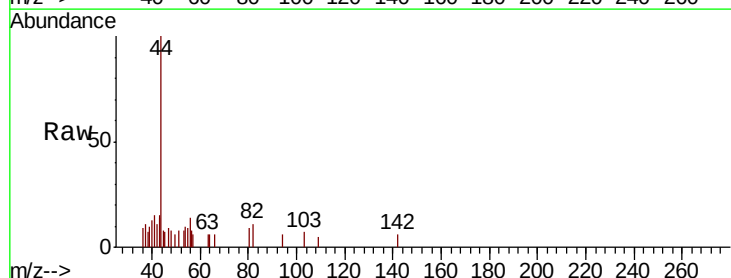
Tot Ion: 59 Resp: 3093  
Ion Ratio Lower Upper  
59 100  
57 4.0 7.7 11.5#

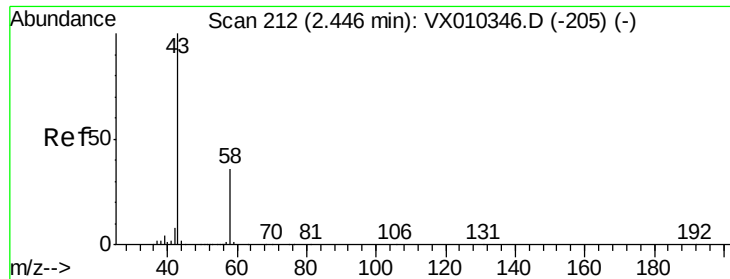


#13

Acrolein  
Concen: 0.593 ug/l  
RT: 2.31 min Scan# 190  
Delta R.T. 0.02 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Tgt Ion: 56 Resp: 241  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.9 85.3#





#16

Acetone

Concen: 4.359 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

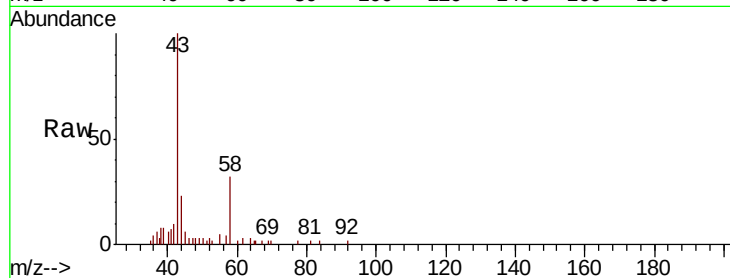
CPA-CPMW10S-M24W1-062219

Tot Ion: 43 Resp: 5118

Ion Ratio Lower Upper

43 100

58 32.6 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

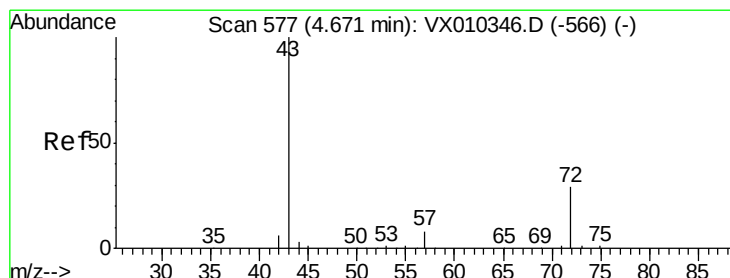
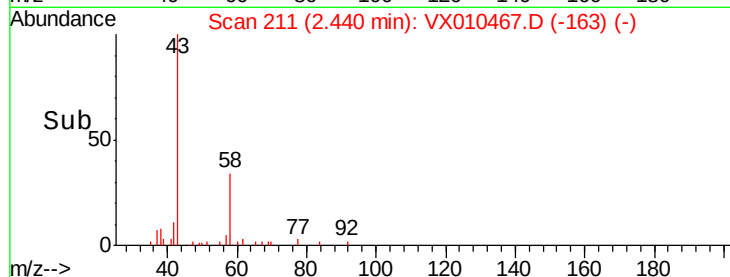
2000

1500

1000

500

Time--> 2.35 2.40 2.45 2.50 2.55



#25

2-Butanone

Concen: 0.207 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010467.D

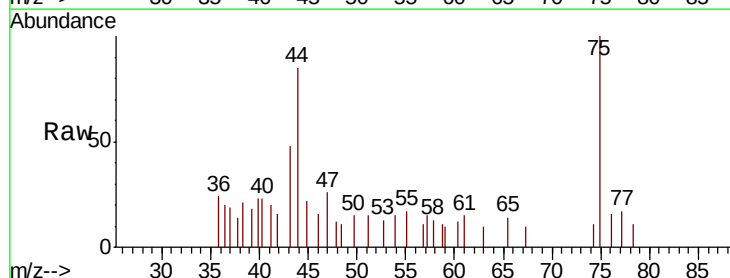
Acq: 26 Jun 2019 16:56

Tgt Ion: 43 Resp: 357

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

300

250

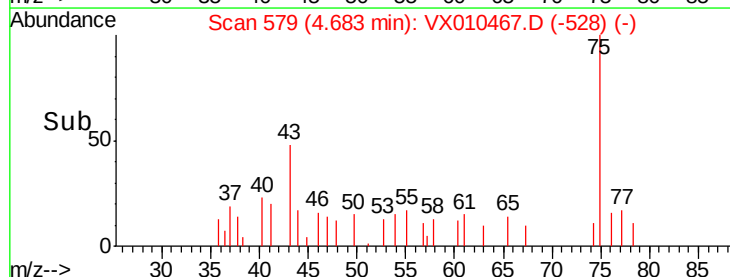
200

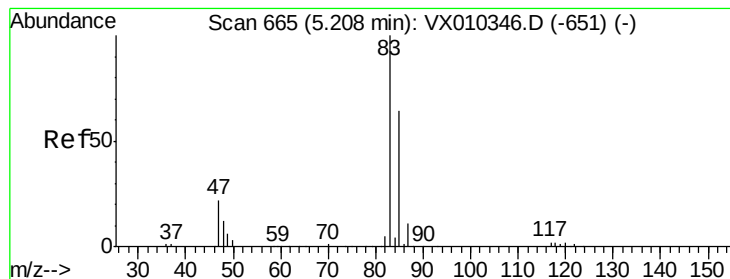
150

100

50

Time--> 4.65 4.70





#30

Chloroform

Concen: 0.247 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.00 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

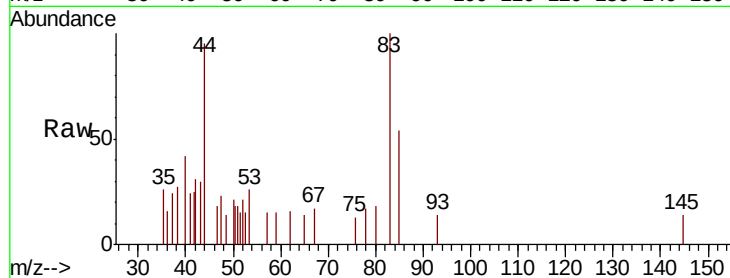
CPA-CPMW10S-M24W1-062219

Tot Ion: 83 Resp: 989

Ion Ratio Lower Upper

83 100

85 53.7 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

400

300

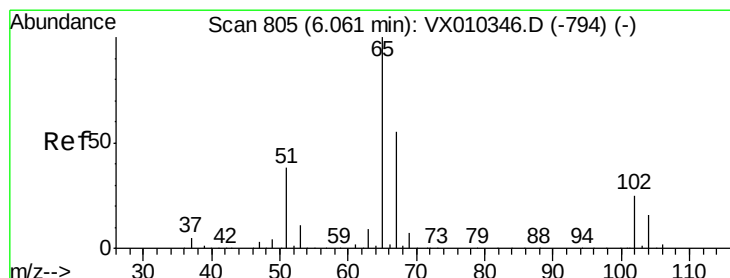
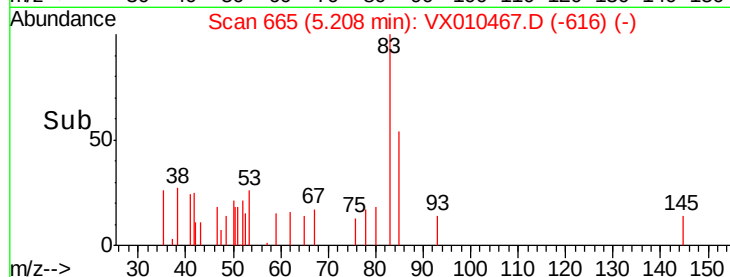
200

100

0

5.15 5.20 5.25 5.30

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.288 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010467.D

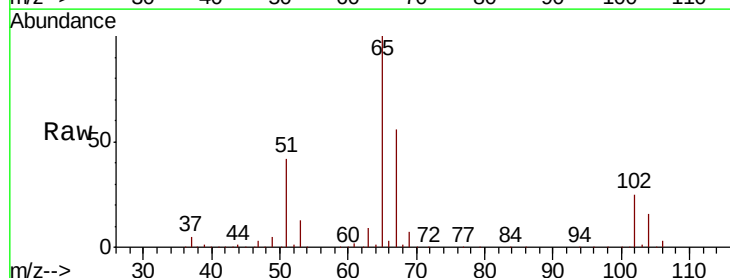
Acq: 26 Jun 2019 16:56

Tgt Ion: 65 Resp: 120158

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

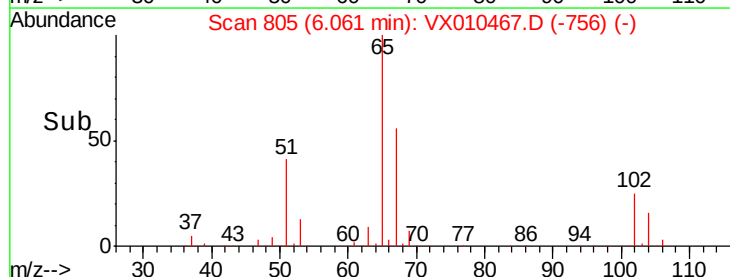
20000

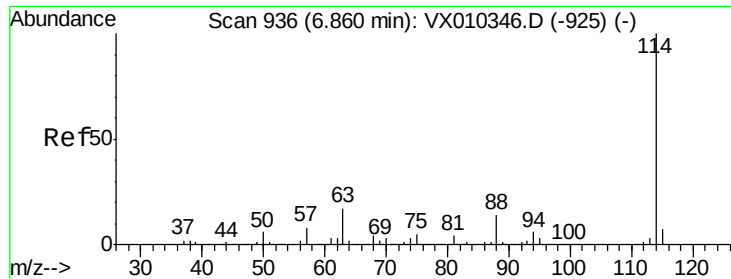
10000

0

5.90 6.00 6.10 6.20

Time-->

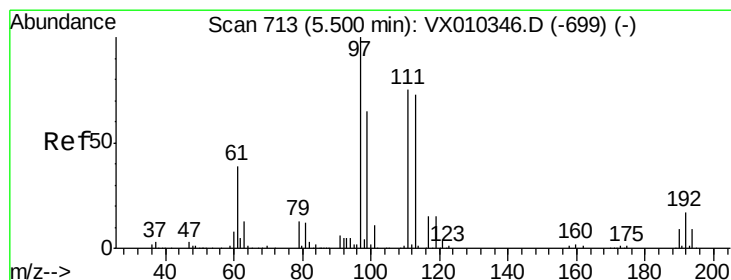
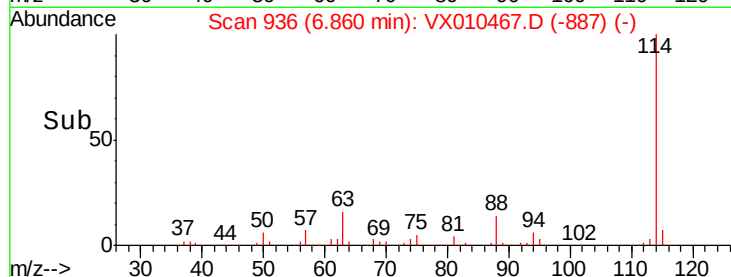
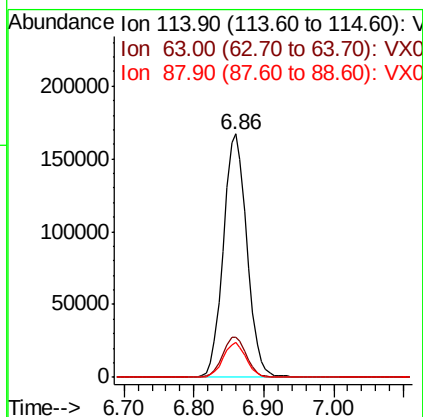
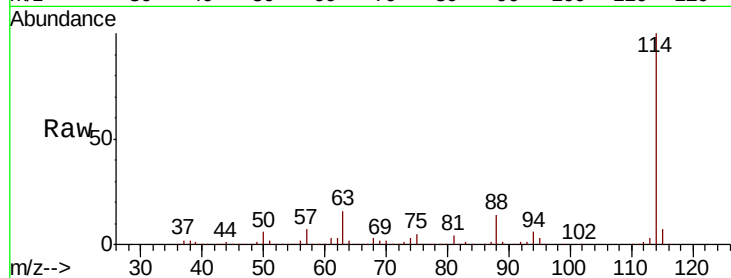




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

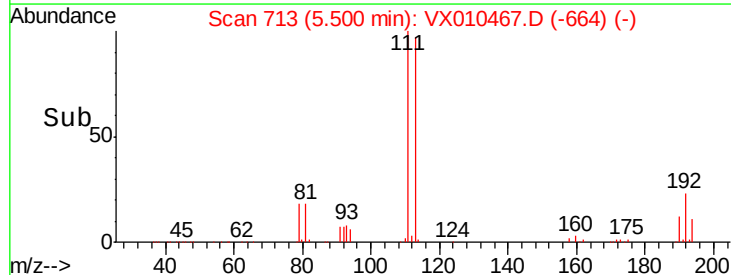
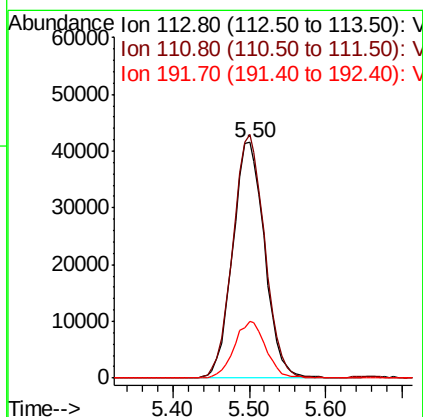
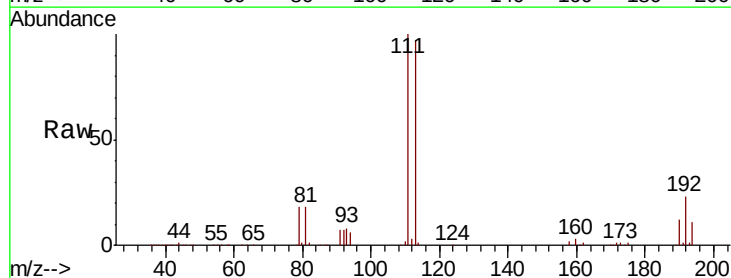
Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW10S-M24W1-062219

Tot Ion:114 Resp: 390071  
Ion Ratio Lower Upper  
114 100  
63 16.4 0.0 33.8  
88 14.2 0.0 27.6

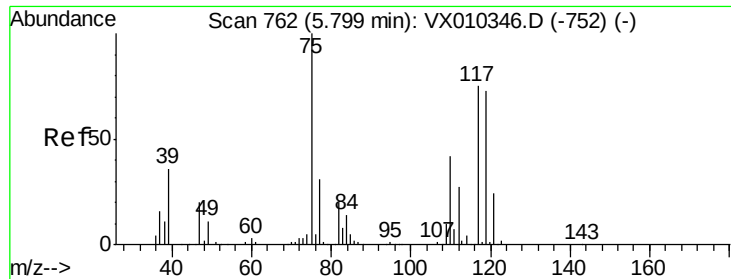


#35  
Dibromofluoromethane  
Concen: 50.224 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. -0.00 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Tgt Ion:113 Resp: 119864  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.2 121.8  
192 23.8 18.6 27.8







#36

1,1-Dichloropropene

Concen: 5.031 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW10S-M24W1-062219

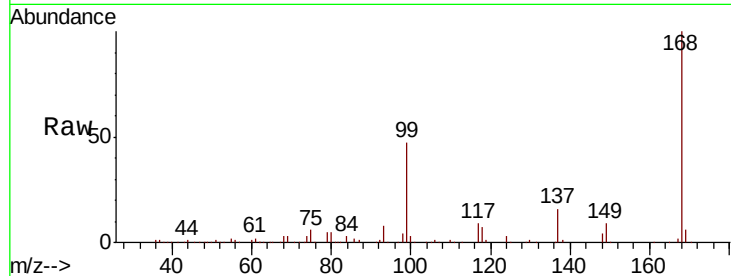
Tot Ion: 75 Resp: 15596

Ion Ratio Lower Upper

75 100

110 10.9 20.8 62.2#

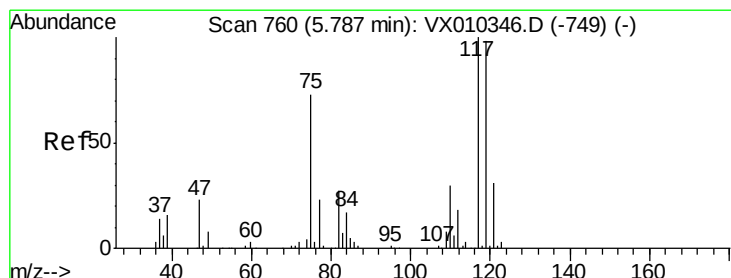
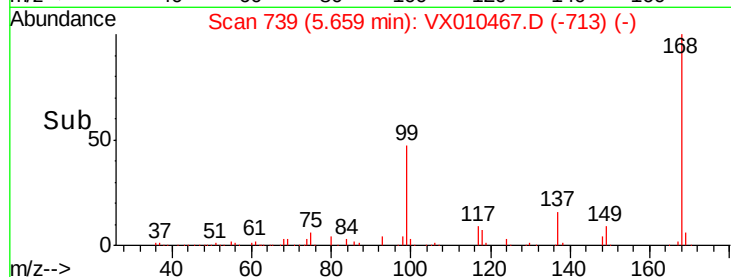
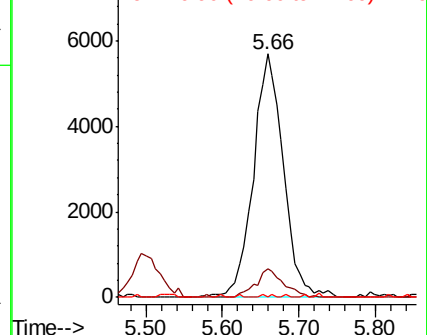
77 0.1 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.541 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

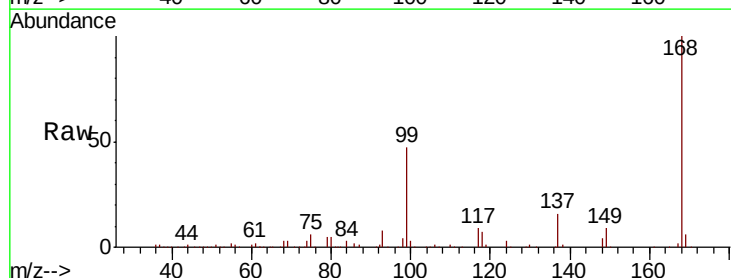
Tgt Ion: 117 Resp: 21954

Ion Ratio Lower Upper

117 100

119 5.9 78.2 117.4#

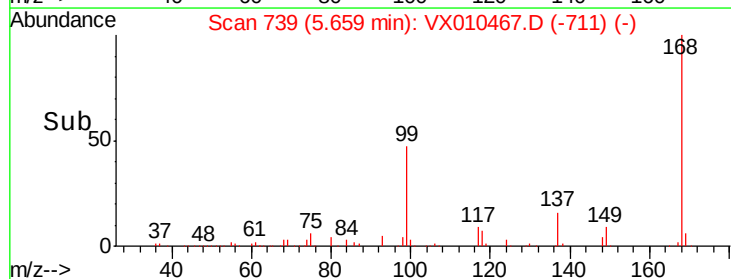
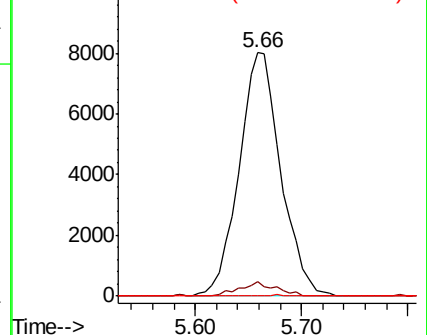
121 0.0 24.7 37.1#

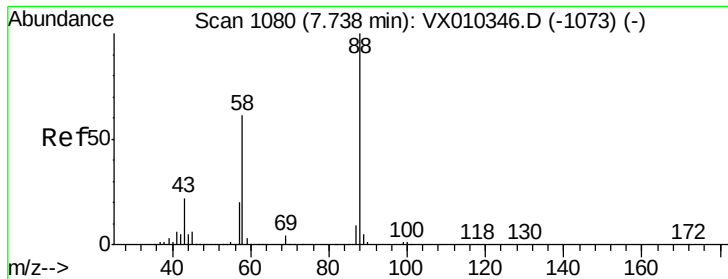


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.595 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.06 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW10S-M24W1-062219

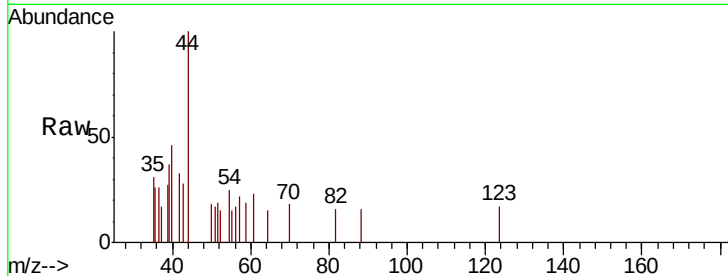
Tot Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 171.4 20.2 30.2#

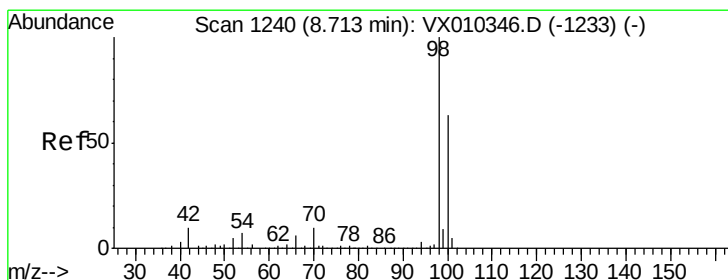
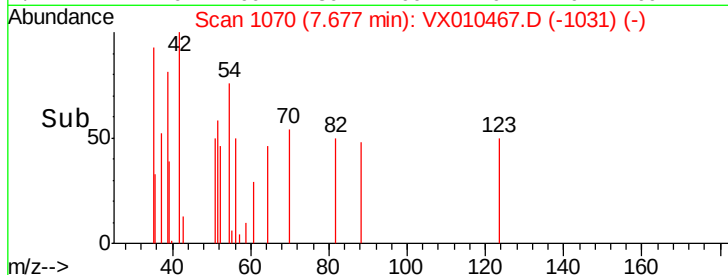
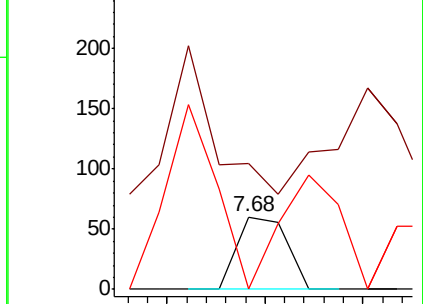
58 261.9 49.5 74.3#



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



#50

Toluene-d8

Concen: 50.033 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010467.D

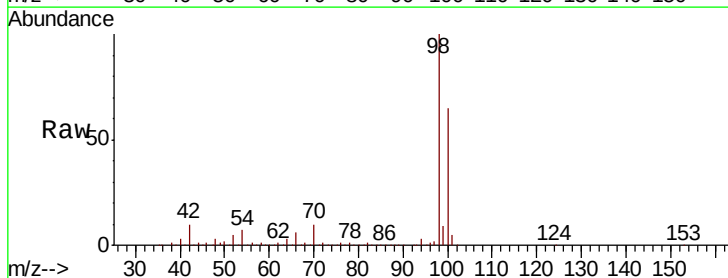
Acq: 26 Jun 2019 16:56

Tgt Ion: 98 Resp: 456830

Ion Ratio Lower Upper

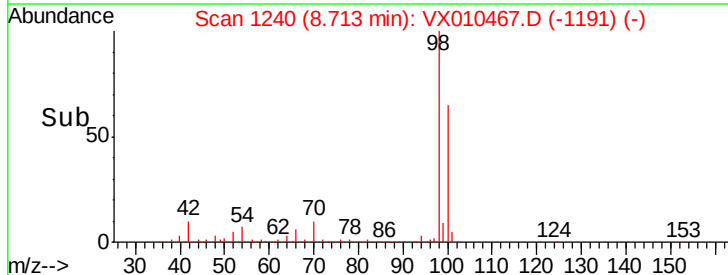
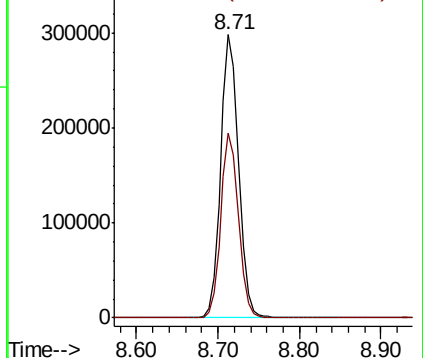
98 100

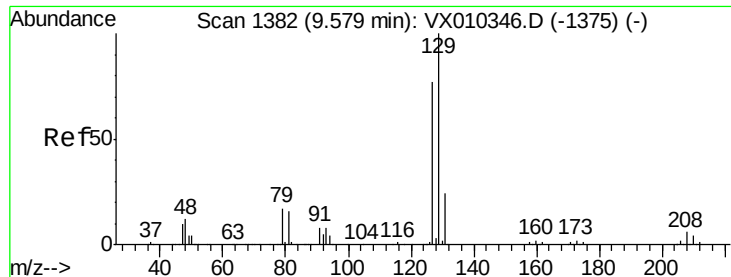
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 4.211 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

Instrument :

MSVOA\_X

ClientSampleId :

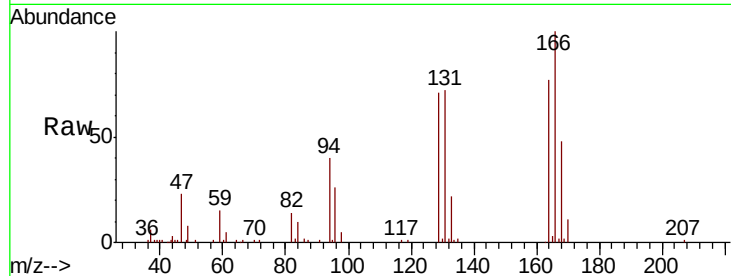
CPA-CPMW10S-M24W1-062219

Tot Ion:129 Resp: 12366

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

8000

6000

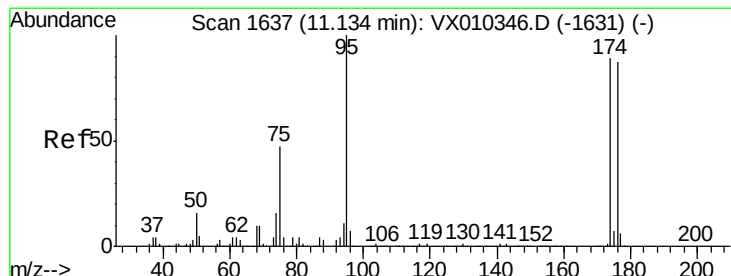
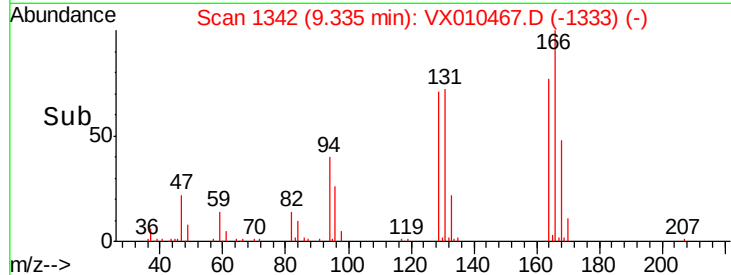
4000

2000

0

9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 46.756 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010467.D

Acq: 26 Jun 2019 16:56

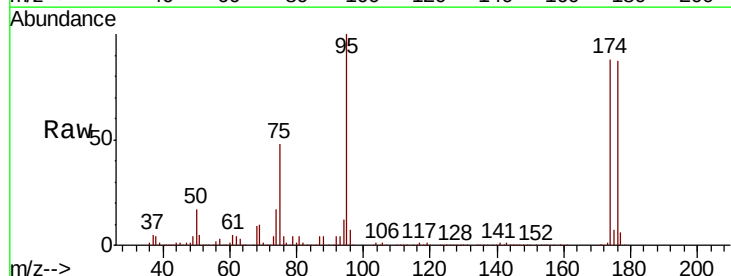
Tgt Ion: 95 Resp: 154128

Ion Ratio Lower Upper

95 100

174 96.2 0.0 187.6

176 92.5 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

150000

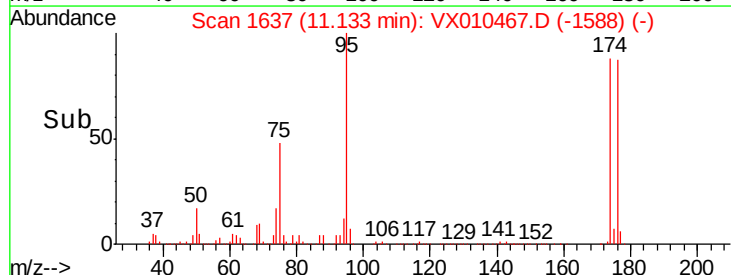
100000

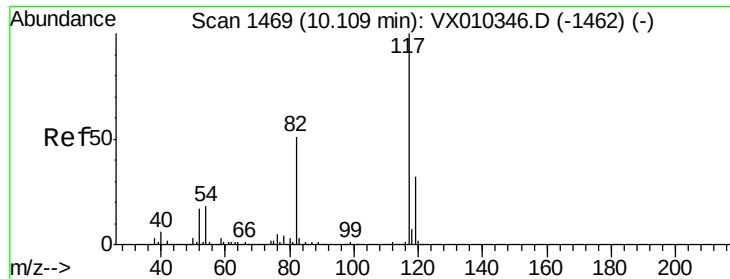
50000

0

11.05 11.10 11.15 11.20

Time-->

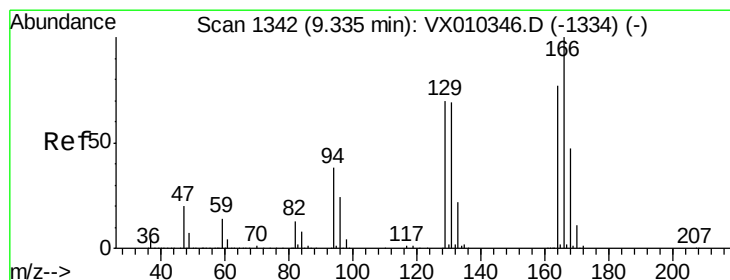
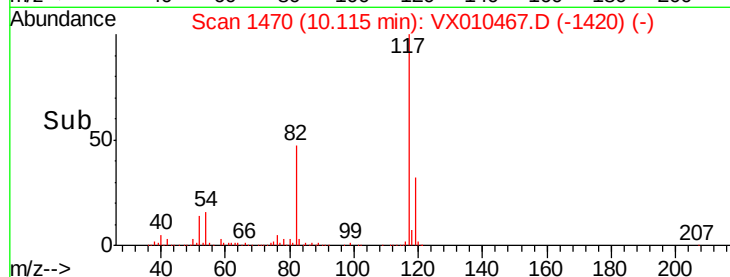
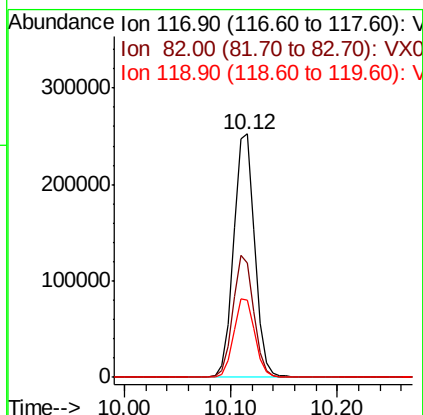
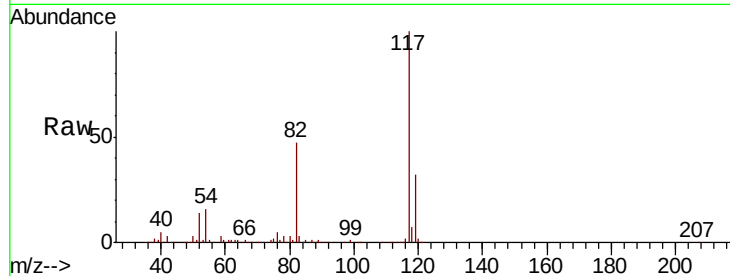




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

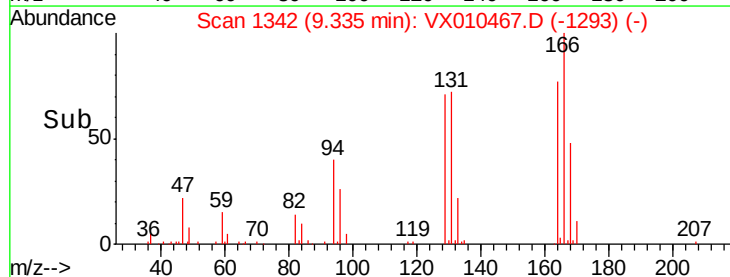
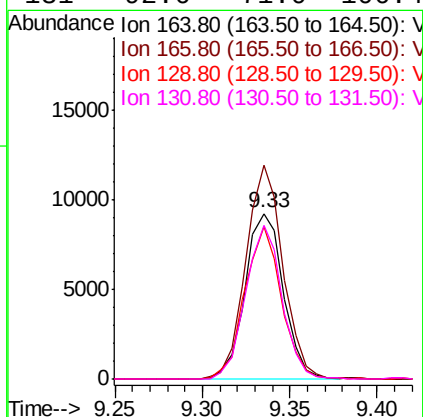
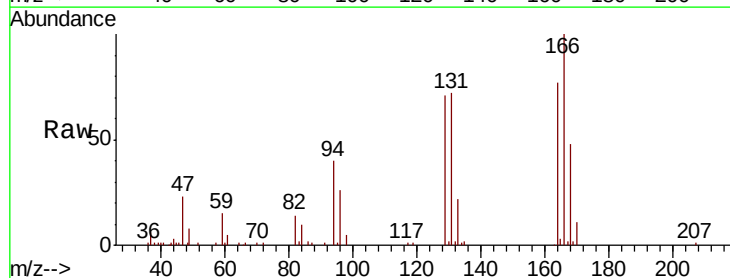
Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW10S-M24W1-062219

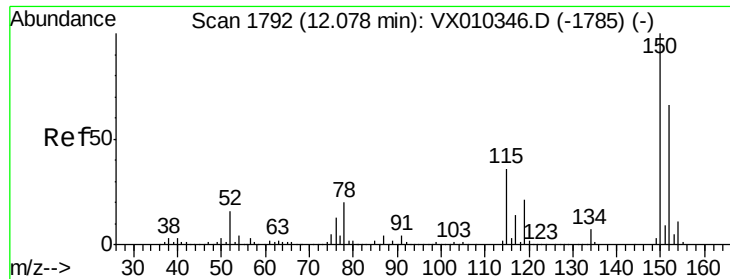
Tot Ion:117 Resp: 350870  
Ion Ratio Lower Upper  
117 100  
82 47.2 41.2 61.8  
119 31.8 25.5 38.3



#64  
Tetrachloroethene  
Concen: 4.945 ug/l  
RT: 9.33 min Scan# 1342  
Delta R.T. -0.00 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Tgt Ion:164 Resp: 14034  
Ion Ratio Lower Upper  
164 100  
166 129.2 103.6 155.4  
129 92.0 73.0 109.4  
131 92.6 71.0 106.4



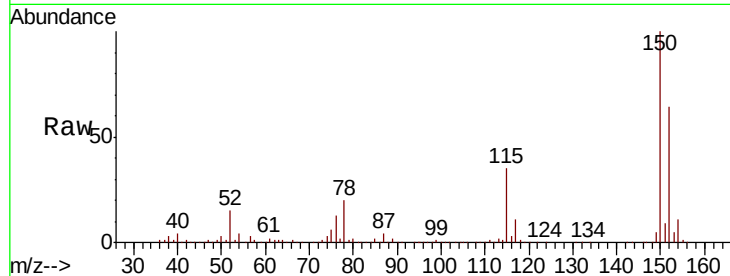


#72

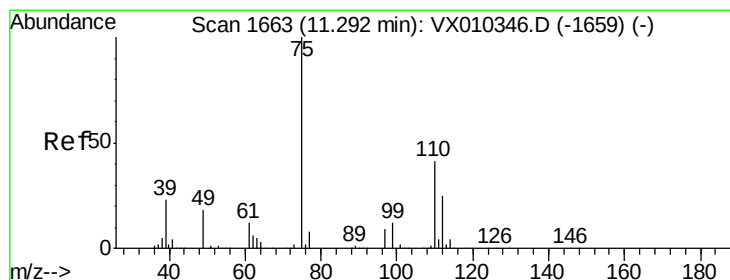
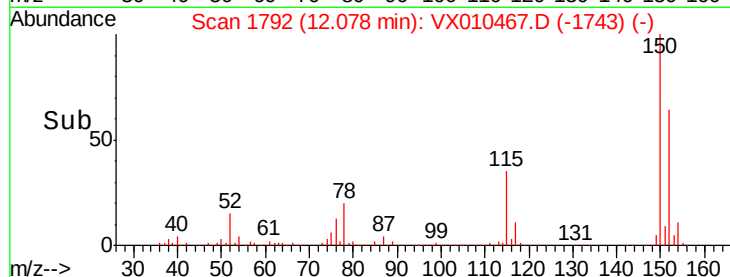
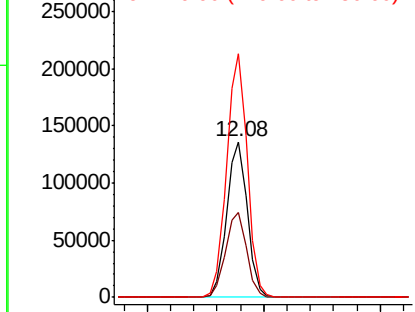
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW10S-M24W1-062219

Tot Ion:152 Resp: 166407  
Ion Ratio Lower Upper  
152 100  
115 55.3 38.6 115.7  
150 157.1 0.0 347.4



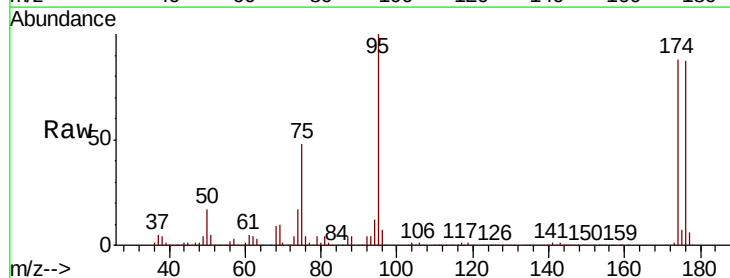
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



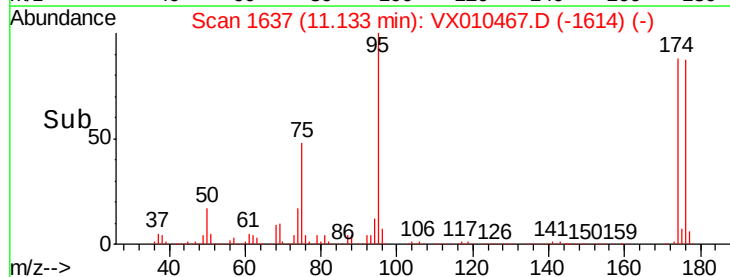
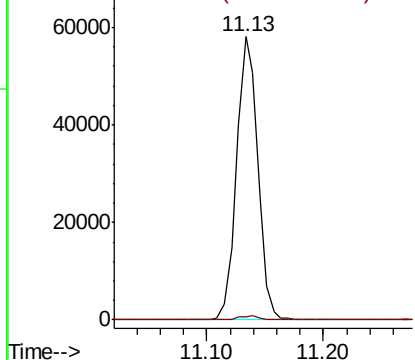
#76

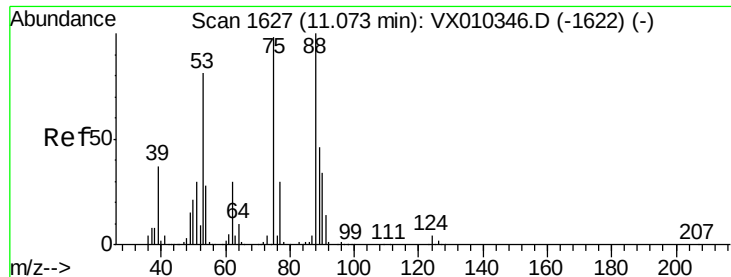
1,2,3-Trichloropropane  
Concen: 24.503 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Tgt Ion: 75 Resp: 74303  
Ion Ratio Lower Upper  
75 100  
77 1.4 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 77.00 (76.70 to 77.70): VX0

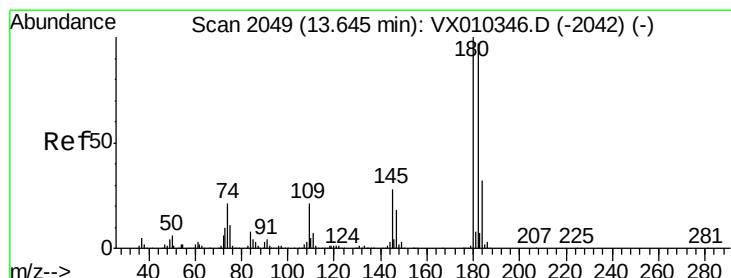
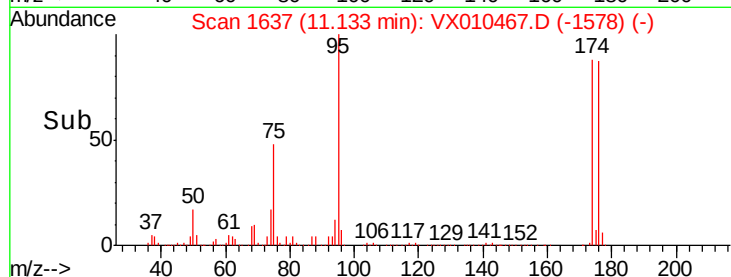
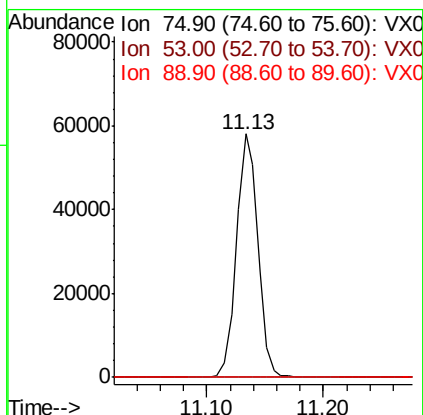
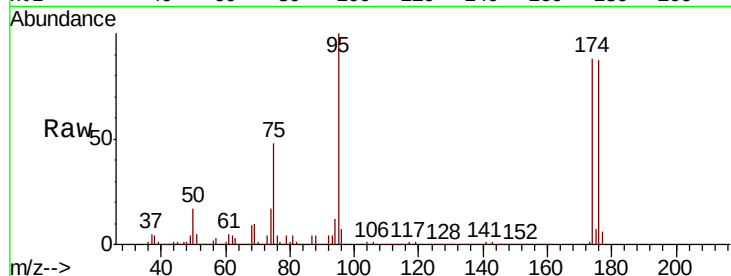




#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.164 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.06 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW10S-M24W1-062219

Tot Ion: 75 Resp: 74303  
Ion Ratio Lower Upper  
75 100  
53 0.3 66.1 99.1#  
89 0.1 37.8 56.6#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.373 ug/l  
RT: 13.64 min Scan# 2048  
Delta R.T. -0.01 min  
Lab File: VX010467.D  
Acq: 26 Jun 2019 16:56

Tgt Ion:180 Resp: 1415  
Ion Ratio Lower Upper  
180 100  
182 90.5 48.0 144.0  
145 34.7 14.4 43.4

