

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX050319\  
 Data File : VX009302.D  
 Acq On : 03 May 2019 11:00  
 Operator : JC/SP  
 Sample : K2670-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SPDES-1

Quant Time: May 03 11:22:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X050119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 02 06:46:57 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 30914    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 177050   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 154638   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.06   | 65    | 77616    | 30.27    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.90% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 73220    | 27.86    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 92.87%  |
| 63) Toluene-d8            | 8.71   | 98    | 222015   | 30.28    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.93% |

## Target Compounds

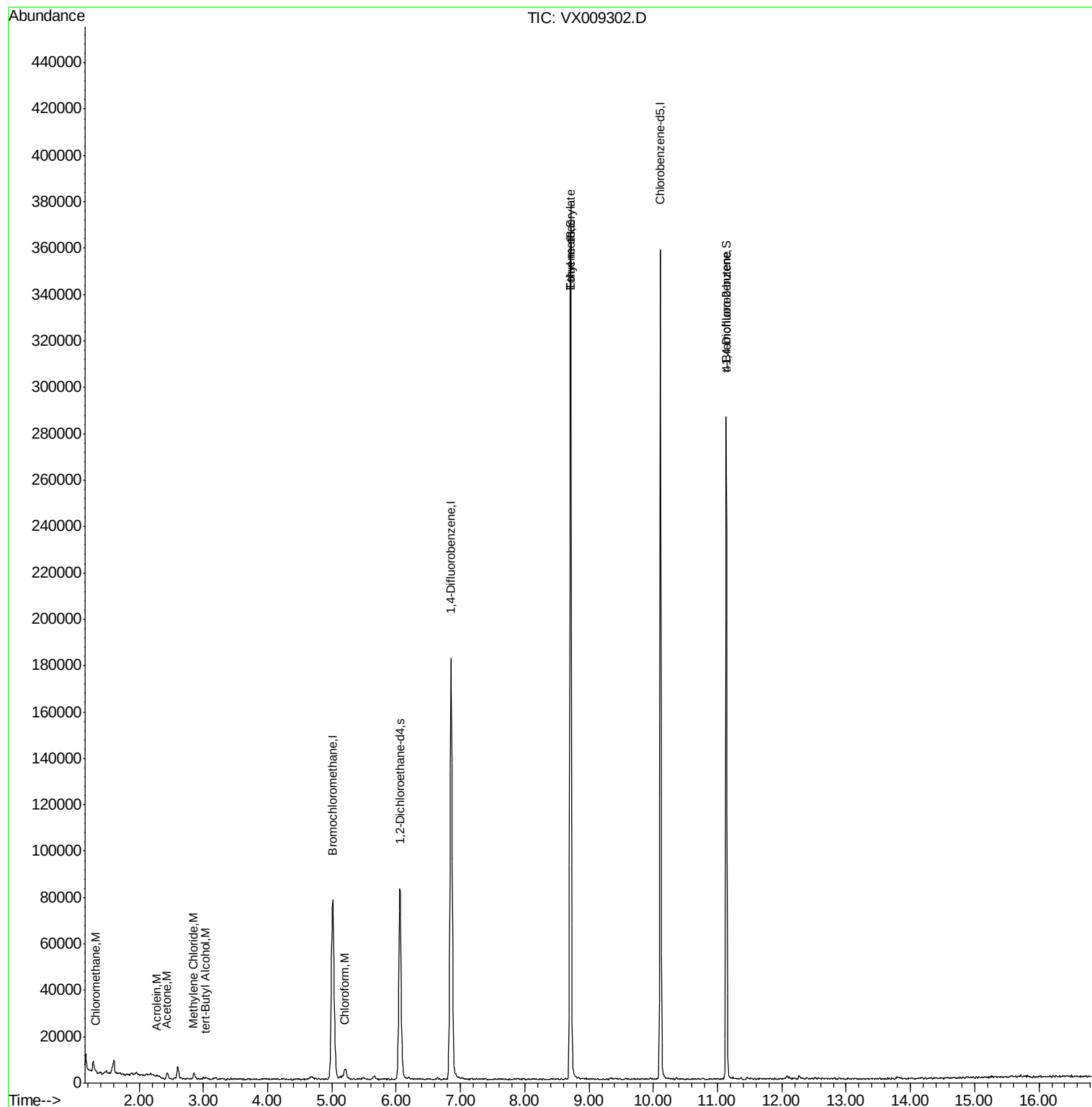
|                             |       |    |       |               | Qvalue |
|-----------------------------|-------|----|-------|---------------|--------|
| 3) Chloromethane            | 1.32  | 50 | 482   | 0.218 ug/l    | 93     |
| 13) Acrolein                | 2.28  | 56 | 108   | 0.247 ug/l    | 89     |
| 15) Acetone                 | 2.44  | 58 | 910   | 2.293 ug/l    | 94     |
| 18) Methylene Chloride      | 2.85  | 84 | 921   | 0.451 ug/l #  | 93     |
| 23) tert-Butyl Alcohol      | 3.03  | 59 | 255   | 0.436 ug/l #  | 100    |
| 25) Chloroform              | 5.20  | 83 | 4986  | 1.412 ug/l    | 85     |
| 51) Ethyl methacrylate      | 8.71  | 69 | 870   | 0.237 ug/l    | 75     |
| 77) t-1,4-Dichloro-2-butene | 11.13 | 75 | 37715 | 33.334 ug/l # | 10     |

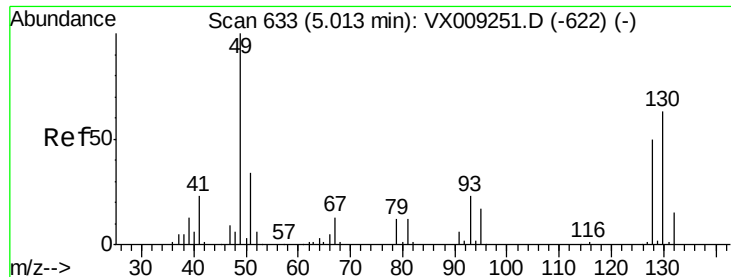
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX050319\  
Data File : VX009302.D  
Acq On : 03 May 2019 11:00  
Operator : JC/SP  
Sample : K2670-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SPDES-1

Quant Time: May 03 11:22:44 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\624X050119W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu May 02 06:46:57 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.00 min

Lab File: VX009302.D

Acq: 03 May 2019 11:00

Instrument :

MSVOA\_X

ClientSampleId :

SPDES-1

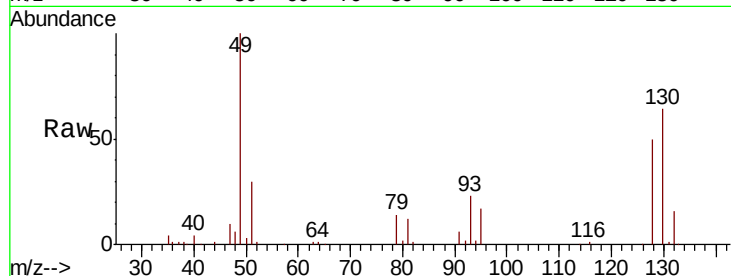
Tgt Ion:128 Resp: 30914

Ion Ratio Lower Upper

128 100

49 203.5 0.0 515.0

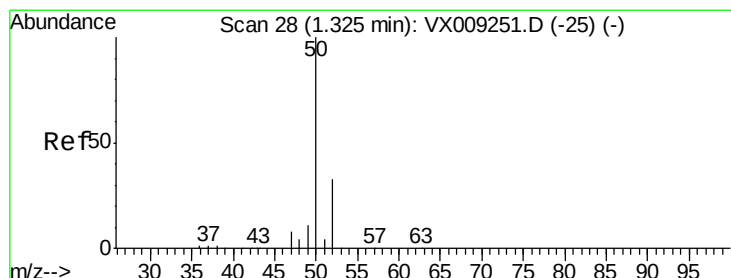
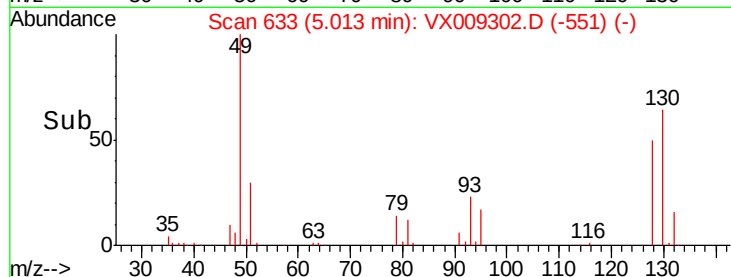
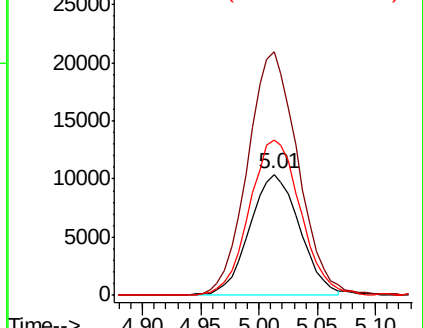
130 131.8 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.218 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009302.D

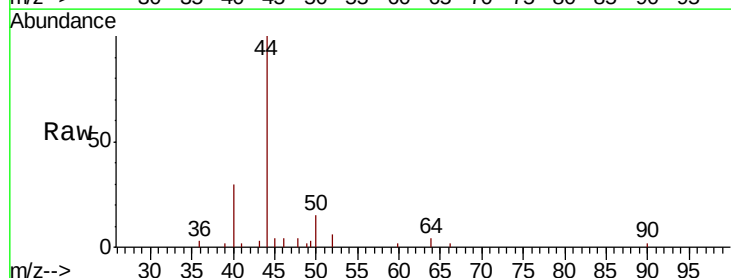
Acq: 03 May 2019 11:00

Tgt Ion: 50 Resp: 482

Ion Ratio Lower Upper

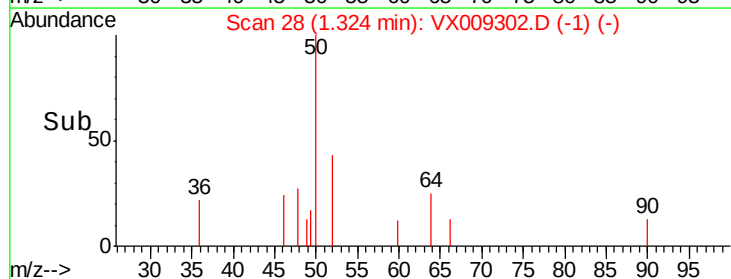
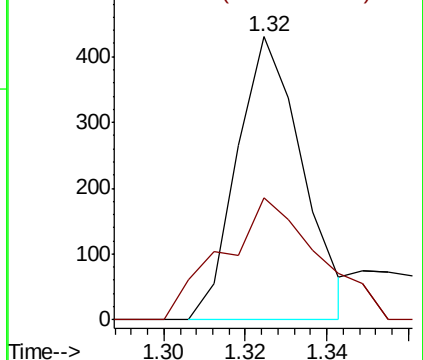
50 100

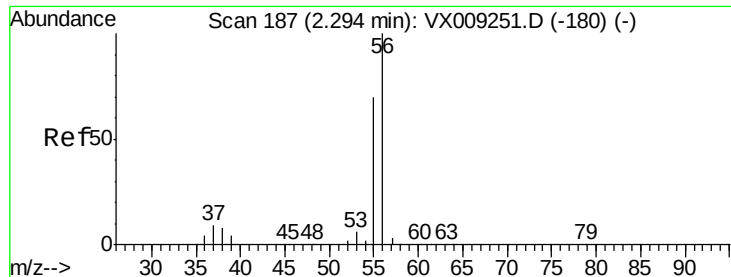
52 29.1 26.3 39.5



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#13

Acrolein

Concen: 0.247 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009302.D

Acq: 03 May 2019 11:00

Instrument :

MSVOA\_X

ClientSampleId :

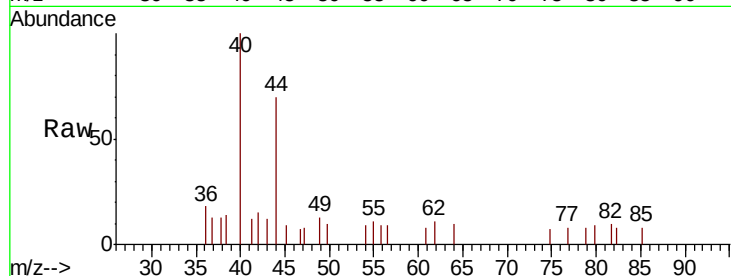
SPDES-1

Tgt Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 80.6 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

150

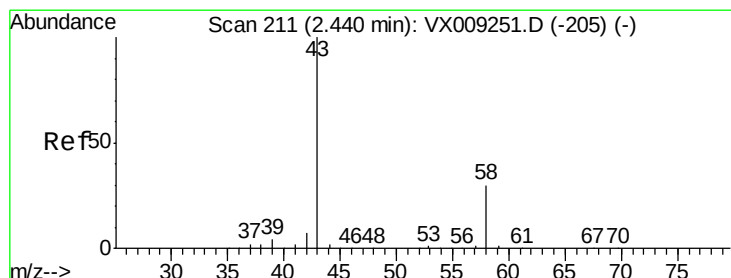
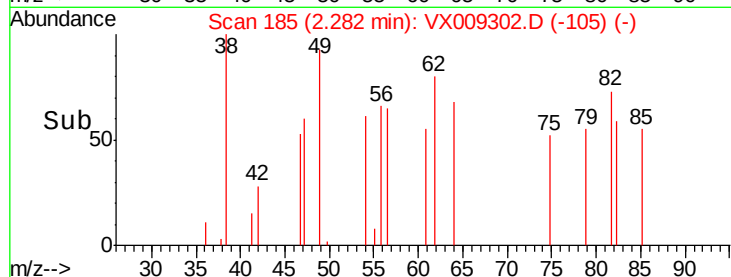
100

50

0

2.27 2.28 2.29 2.30

Time-->



#15

Acetone

Concen: 2.293 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX009302.D

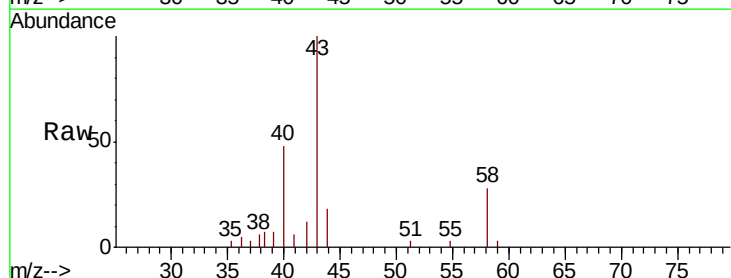
Acq: 03 May 2019 11:00

Tgt Ion: 58 Resp: 910

Ion Ratio Lower Upper

58 100

43 341.9 264.0 396.0



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

2000

1500

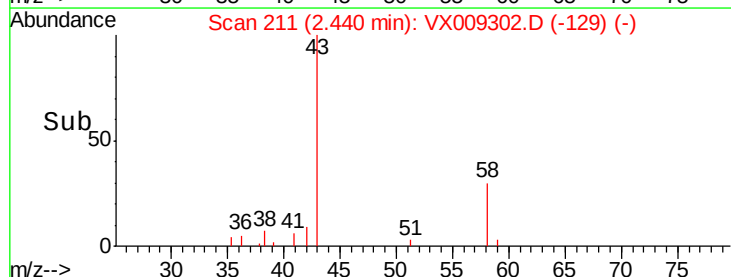
1000

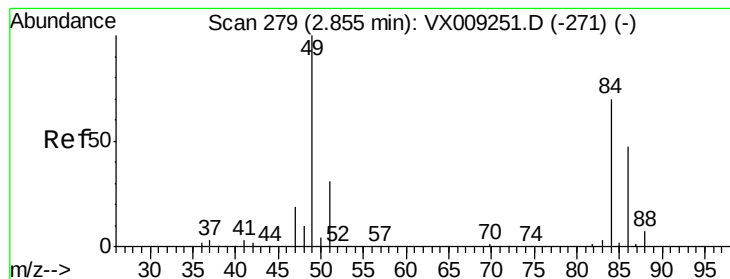
500

0

2.40 2.45 2.50

Time-->





#18

Methylene Chloride

Concen: 0.451 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX009302.D

Acq: 03 May 2019 11:00

Instrument :

MSVOA\_X

ClientSampled :

SPDES-1

Tgt Ion: 84 Resp: 921

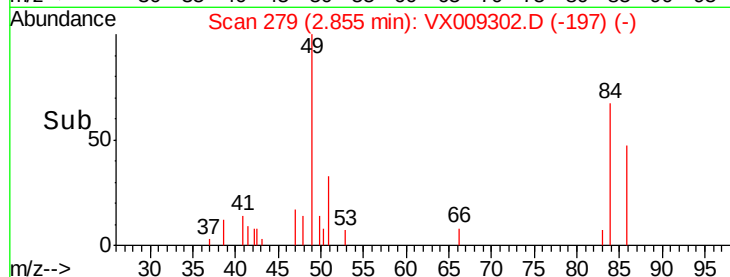
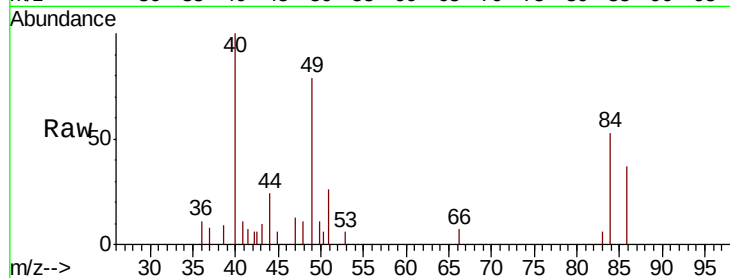
Ion Ratio Lower Upper

84 100

49 150.0 114.6 171.8

51 33.4 35.5 53.3#

86 70.9 53.4 80.2

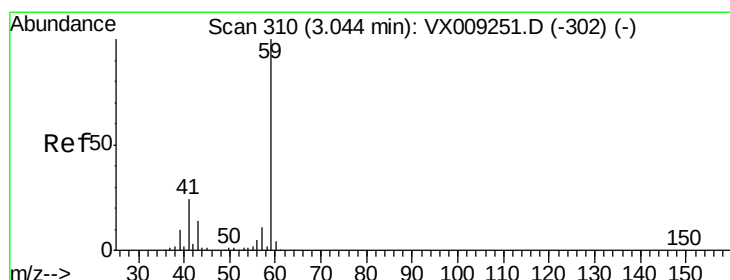
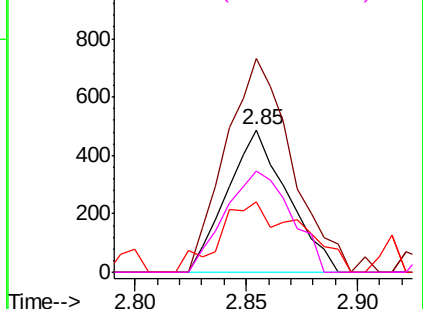


Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#23

tert-Butyl Alcohol

Concen: 0.436 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.01 min

Lab File: VX009302.D

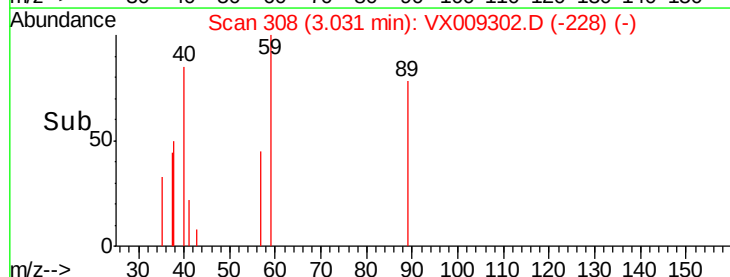
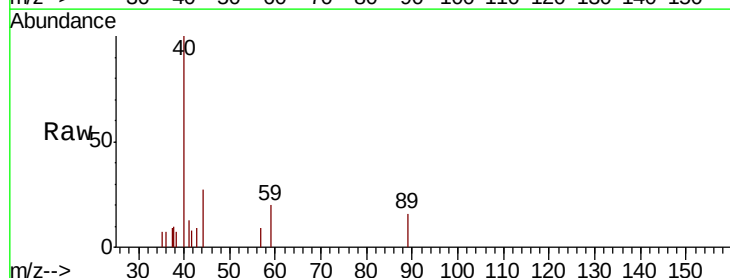
Acq: 03 May 2019 11:00

Tgt Ion: 59 Resp: 255

Ion Ratio Lower Upper

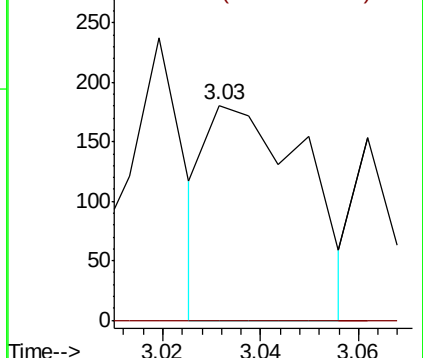
59 100

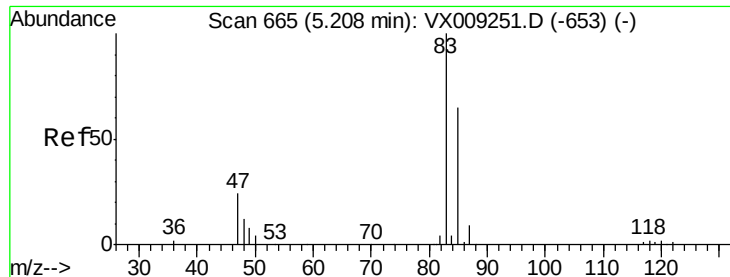
52 0.0 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#25

Chloroform

Concen: 1.412 ug/l

RT: 5.20 min Scan# 664

Delta R.T. -0.01 min

Lab File: VX009302.D

Acq: 03 May 2019 11:00

Instrument :

MSVOA\_X

ClientSampleId :

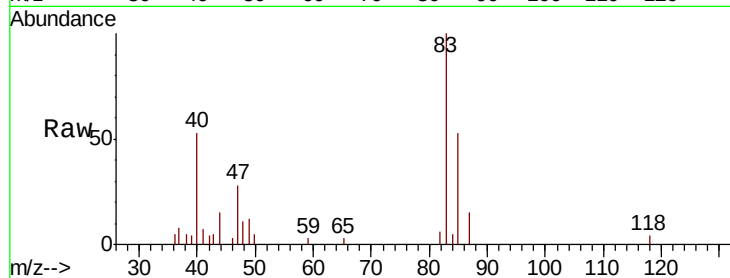
SPDES-1

Tgt Ion: 83 Resp: 4986

Ion Ratio Lower Upper

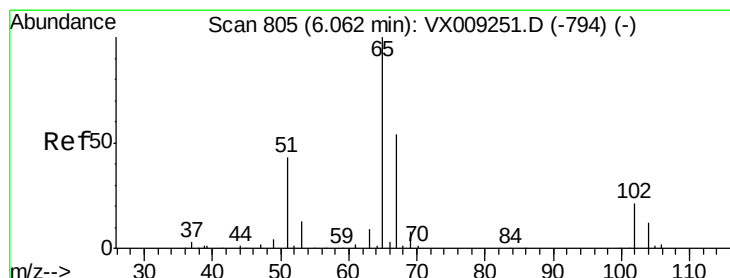
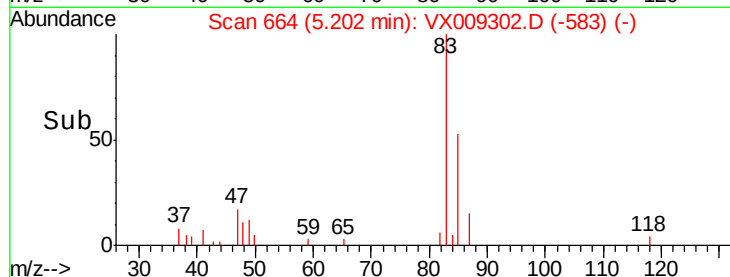
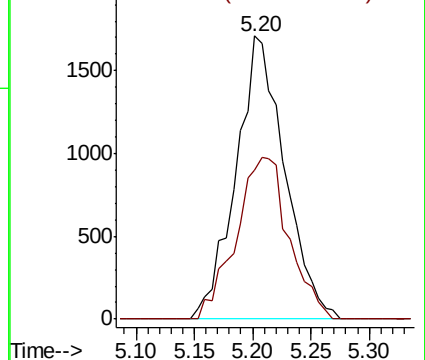
83 100

85 52.8 51.9 77.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.266 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX009302.D

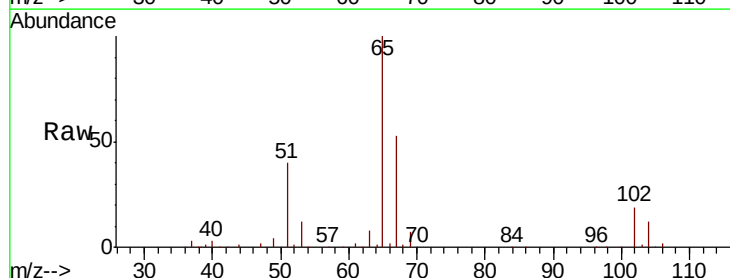
Acq: 03 May 2019 11:00

Tgt Ion: 65 Resp: 77616

Ion Ratio Lower Upper

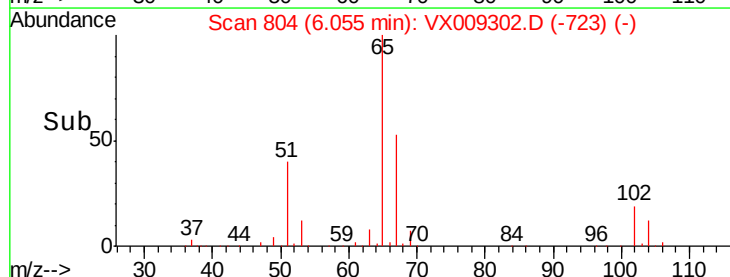
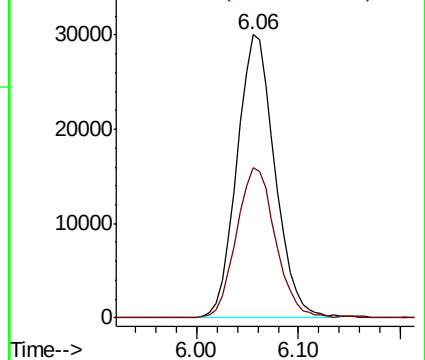
65 100

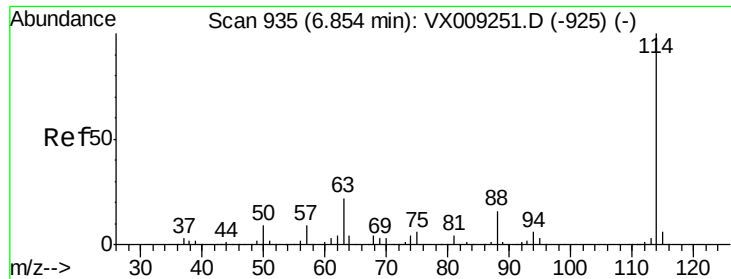
67 54.4 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

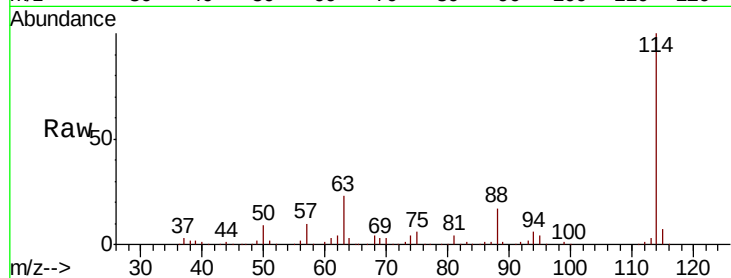




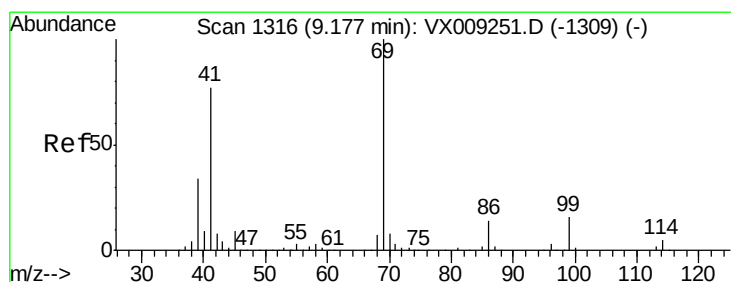
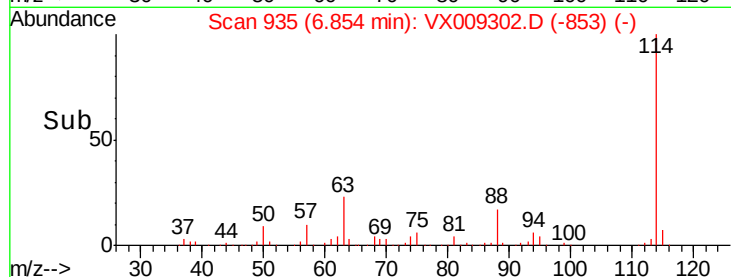
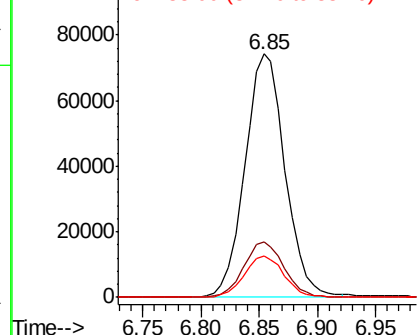
#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.00 min  
 Lab File: VX009302.D  
 Acq: 03 May 2019 11:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SPDES-1

Tgt Ion:114 Resp: 177050  
 Ion Ratio Lower Upper  
 114 100  
 63 22.8 18.0 27.0  
 88 16.8 13.4 20.0

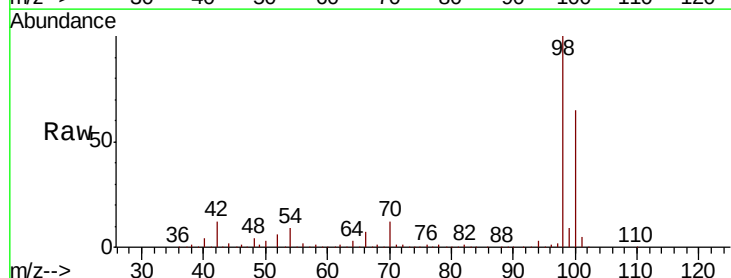


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 88.00 (87.70 to 88.70): VX0

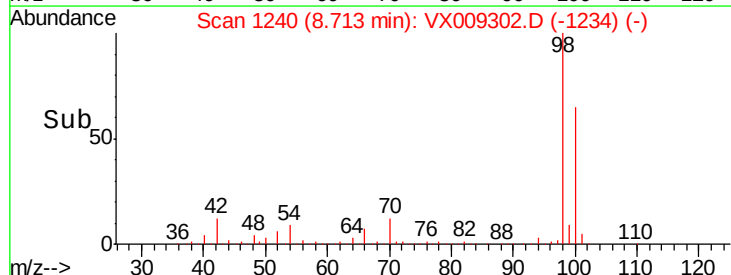
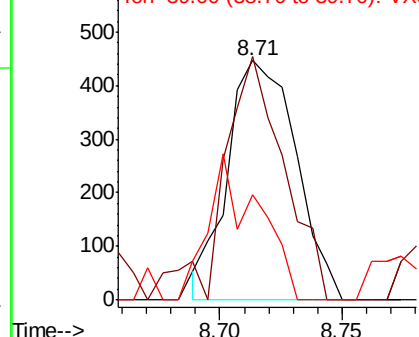


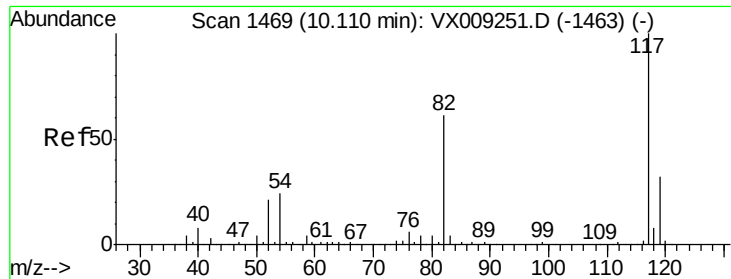
#51  
 Ethyl methacrylate  
 Concen: 0.237 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. -0.46 min  
 Lab File: VX009302.D  
 Acq: 03 May 2019 11:00

Tgt Ion: 69 Resp: 870  
 Ion Ratio Lower Upper  
 69 100  
 41 101.6 38.4 115.2  
 39 44.1 17.2 51.5



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

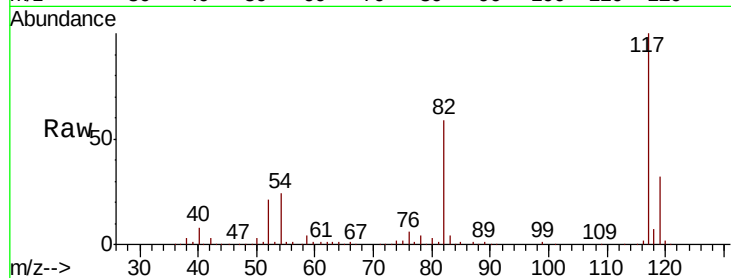




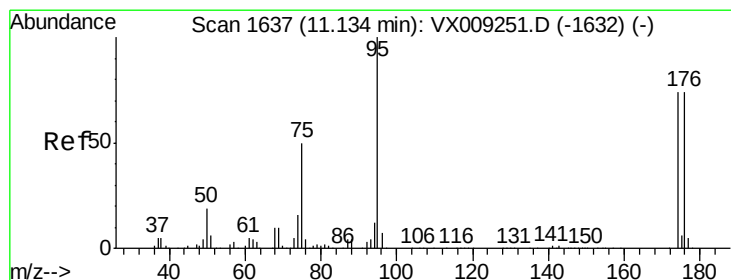
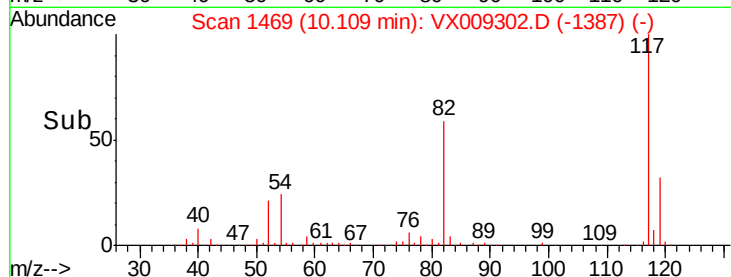
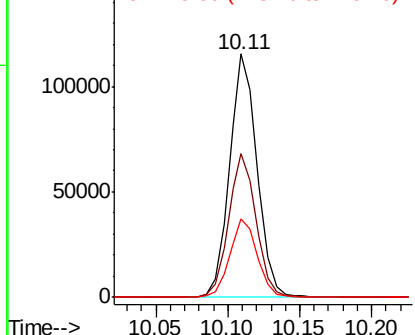
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX009302.D  
Acq: 03 May 2019 11:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
SPDES-1

Tgt Ion: 117 Resp: 154638  
Ion Ratio Lower Upper  
117 100  
82 59.1 47.8 71.8  
119 32.1 25.6 38.4

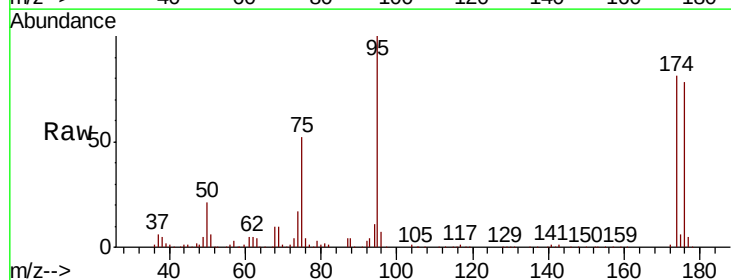


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 119.00 (118.70 to 119.70): V

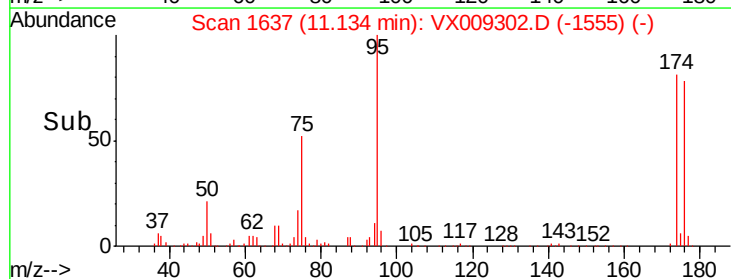
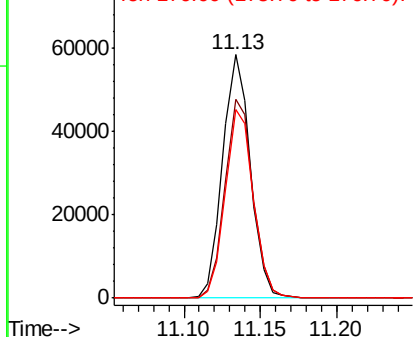


#60  
4-Bromofluorobenzene  
Concen: 27.865 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX009302.D  
Acq: 03 May 2019 11:00

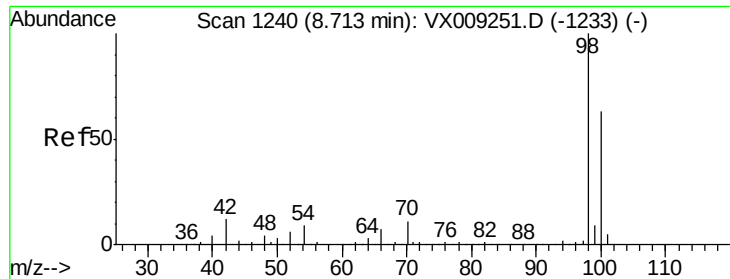
Tgt Ion: 95 Resp: 73220  
Ion Ratio Lower Upper  
95 100  
174 82.7 63.6 95.4  
176 78.7 62.4 93.6



Abundance Ion 95.00 (94.70 to 95.70): VX0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V



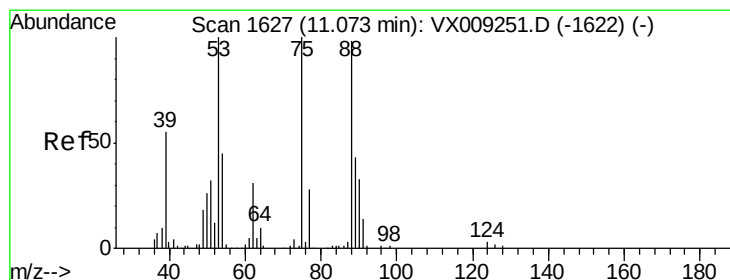
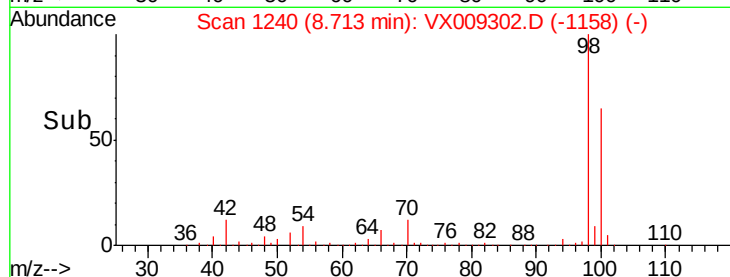
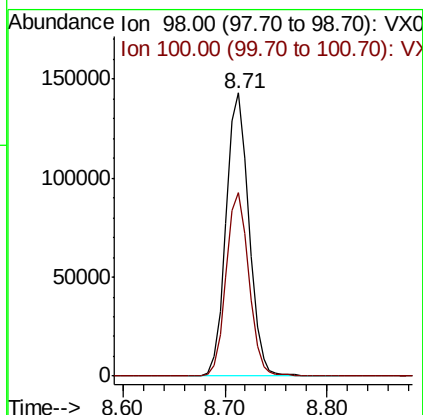
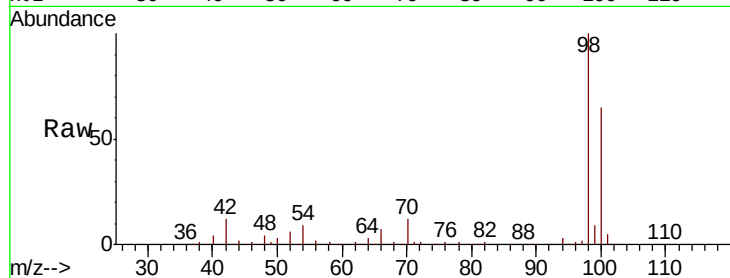




#63  
Toluene-d8  
Concen: 30.282 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX009302.D  
Acq: 03 May 2019 11:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
SPDES-1

Tgt Ion: 98 Resp: 222015  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.3 78.5



#77  
t-1,4-Dichloro-2-butene  
Concen: 33.334 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.06 min  
Lab File: VX009302.D  
Acq: 03 May 2019 11:00

Tgt Ion: 75 Resp: 37715  
Ion Ratio Lower Upper  
75 100  
53 0.2 50.0 149.8#  
89 0.3 21.6 65.0#

