

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\  
 Data File : VX009656.D  
 Acq On : 17 May 2019 12:09  
 Operator : JC/SP  
 Sample : K2868-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 55-ST-13

Quant Time: May 18 03:55:12 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   | 5.02  | 128  | 27455    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 153704   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 134904   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|---------|----------|
| 27) 1,2-Dichloroethane-d4   |        | 6.06  | 65       | 70666    | 31.03 | ug/l    | 0.00     |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =     | 103.43% |          |
| 60) 4-Bromofluorobenzene    |        | 11.13 | 95       | 62766    | 27.38 | ug/l    | 0.00     |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =     | 91.27%  |          |
| 63) Toluene-d8              |        | 8.71  | 98       | 190326   | 29.76 | ug/l    | 0.00     |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =     | 99.20%  |          |

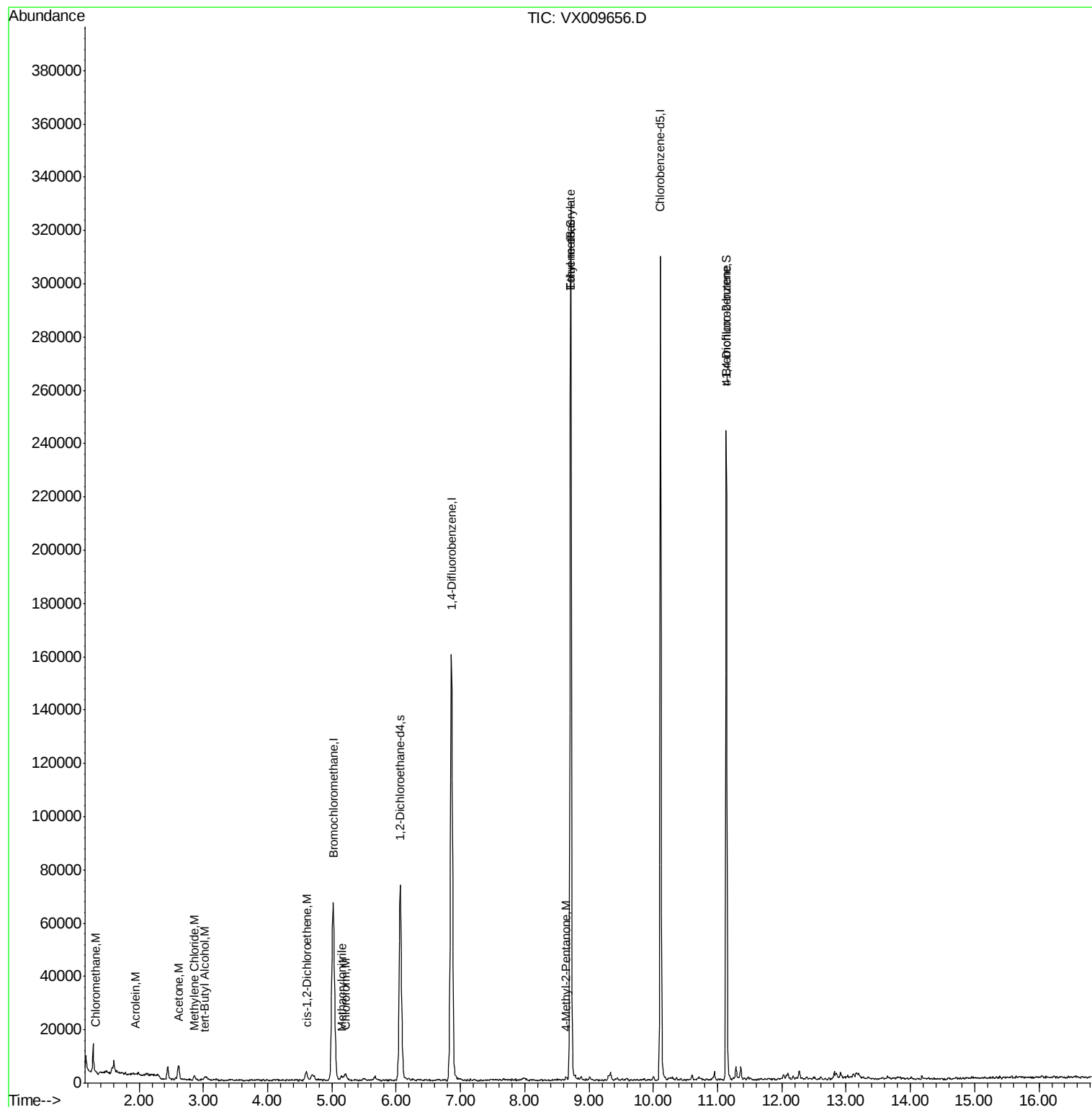
| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane            | 1.33  | 50   | 433      | 0.221  | ug/l # | 73     |
| 13) Acrolein                | 1.95  | 56   | 110      | 0.284  | ug/l   | 85     |
| 15) Acetone                 | 2.61  | 58   | 156      | 0.443  | ug/l   | 89     |
| 18) Methylene Chloride      | 2.85  | 84   | 428      | 0.236  | ug/l # | 72     |
| 22) cis-1,2-Dichloroethene  | 4.60  | 96   | 1417     | 0.735  | ug/l # | 59     |
| 23) tert-Butyl Alcohol      | 3.03  | 59   | 612      | 1.179  | ug/l # | 100    |
| 25) Chloroform              | 5.21  | 83   | 1661     | 0.530  | ug/l   | 90     |
| 35) Methacrylonitrile       | 5.15  | 41   | 380      | 0.206  | ug/l   | 73     |
| 51) Ethyl methacrylate      | 8.72  | 69   | 786      | 0.247  | ug/l   | 82     |
| 58) 4-Methyl-2-Pentanone    | 8.64  | 43   | 1015     | 0.306  | ug/l   | 93     |
| 77) t-1,4-Dichloro-2-butene | 11.13 | 75   | 32433    | 32.859 | ug/l # | 10     |

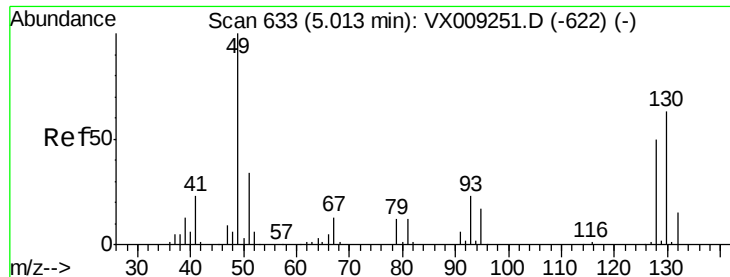
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :  
55-ST-13

Quant Time: May 18 03:55:12 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: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009656.D

Acq: 17 May 2019 12:09

Instrument :

MSVOA\_X

ClientSampleId :

55-ST-13

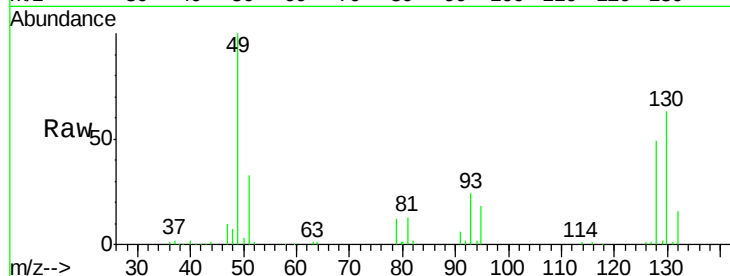
Tot Ion:128 Resp: 27455

Ion Ratio Lower Upper

128 100

49 200.3 0.0 515.0

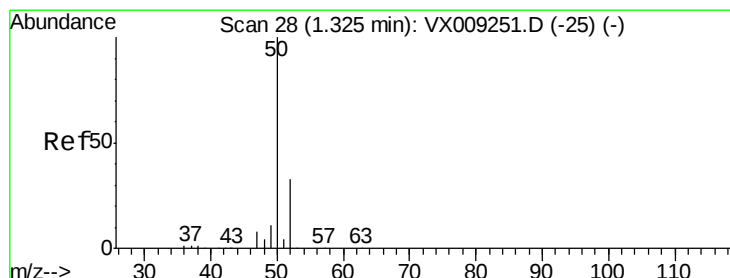
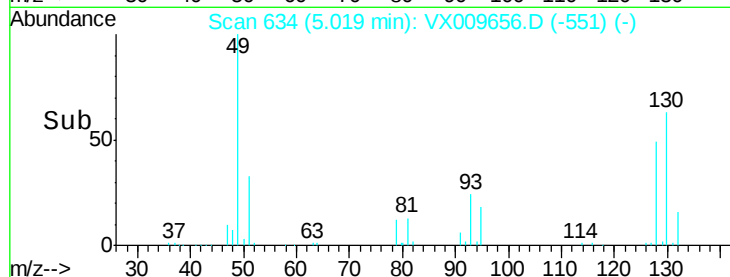
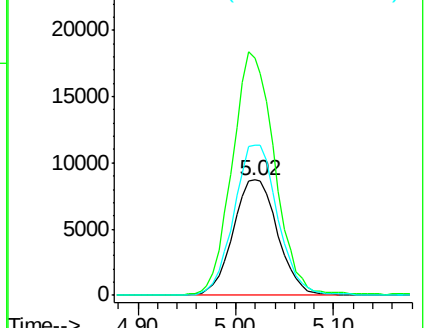
130 128.3 0.0 323.3



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: 0.221 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009656.D

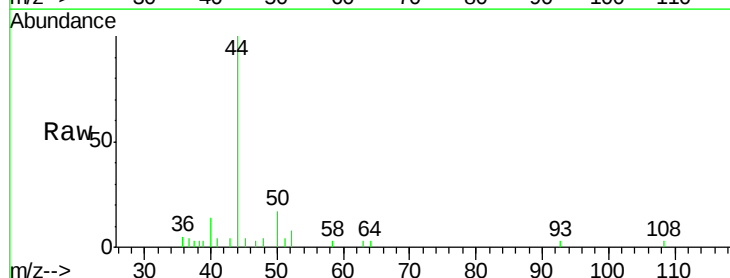
Acq: 17 May 2019 12:09

Tgt Ion: 50 Resp: 433

Ion Ratio Lower Upper

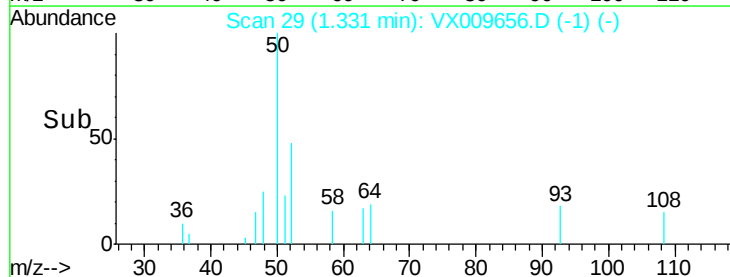
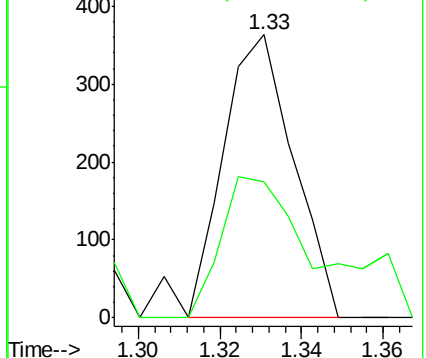
50 100

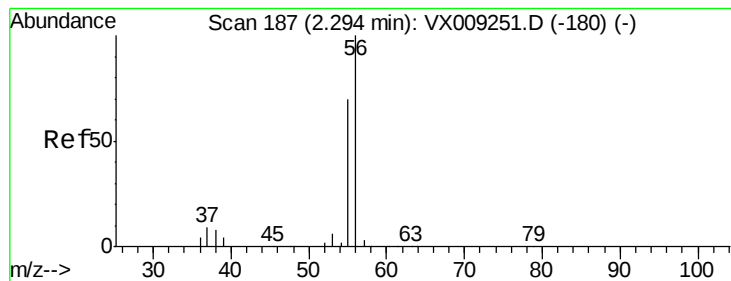
52 48.2 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#13

Acrolein

Concen: 0.284 ug/l

RT: 1.95 min Scan# 131

Delta R.T. -0.34 min

Lab File: VX009656.D

Acq: 17 May 2019 12:09

Instrument :

MSVOA\_X

ClientSampled :

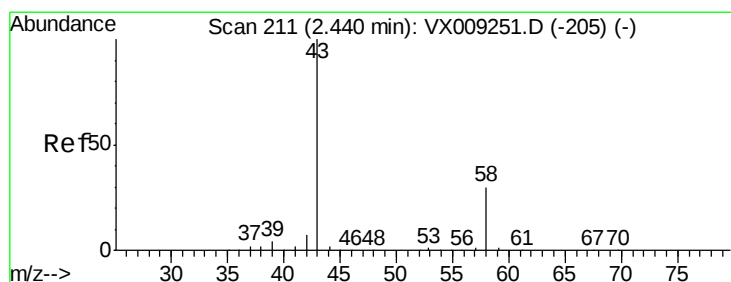
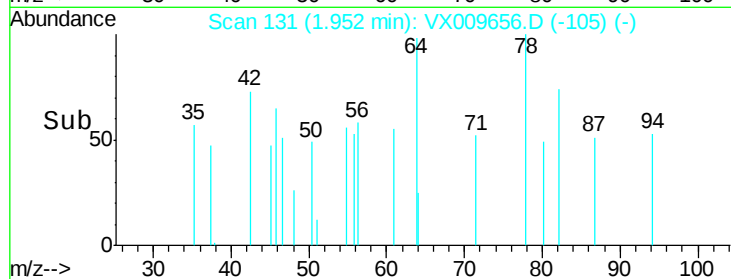
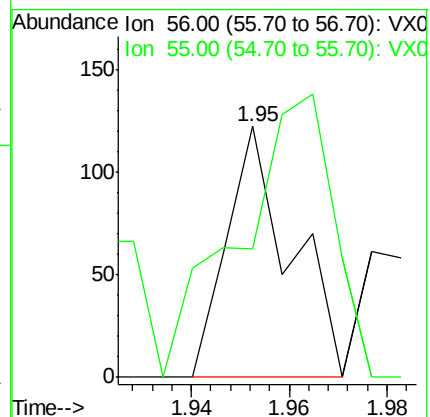
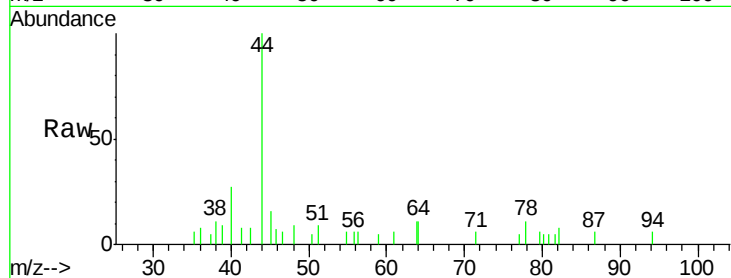
55-ST-13

Tot Ion: 56 Resp: 110

Ion Ratio Lower Upper

56 100

55 59.1 56.9 85.3



#15

Acetone

Concen: 0.443 ug/l

RT: 2.61 min Scan# 239

Delta R.T. 0.17 min

Lab File: VX009656.D

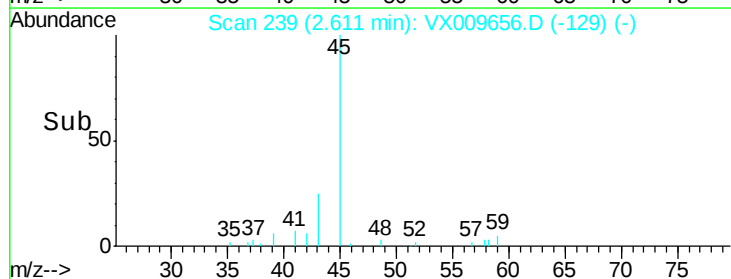
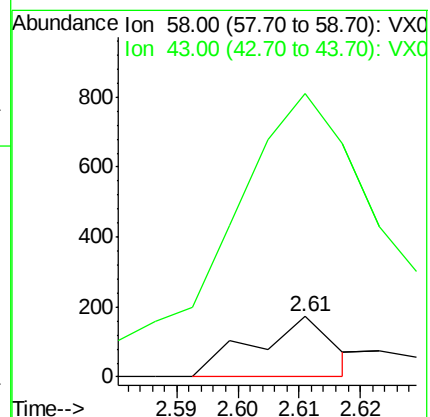
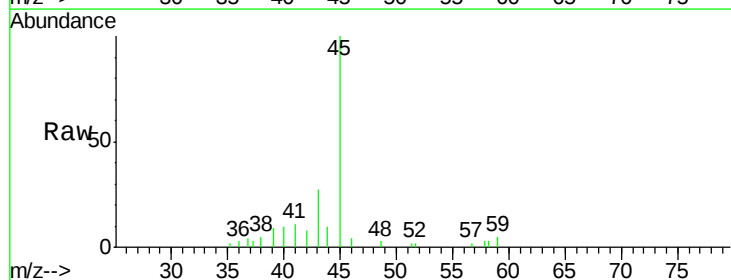
Acq: 17 May 2019 12:09

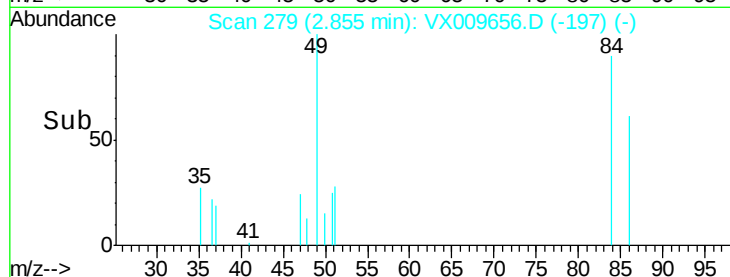
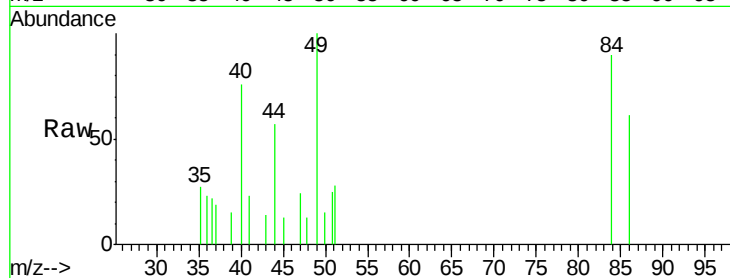
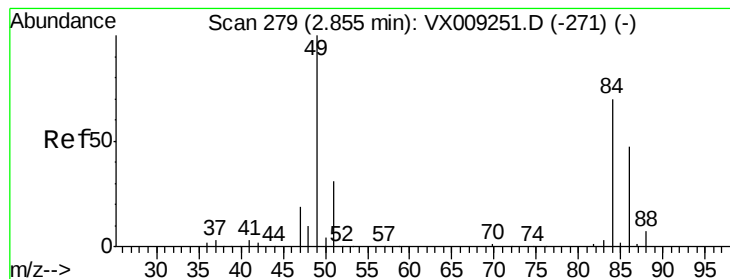
Tgt Ion: 58 Resp: 156

Ion Ratio Lower Upper

58 100

43 353.5 264.0 396.0





#18

Methylene Chloride

Concen: 0.236 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009656.D

Acq: 17 May 2019 12:09

Instrument :

MSVOA\_X

ClientSampled :

55-ST-13

Tot Ion: 84 Resp: 428

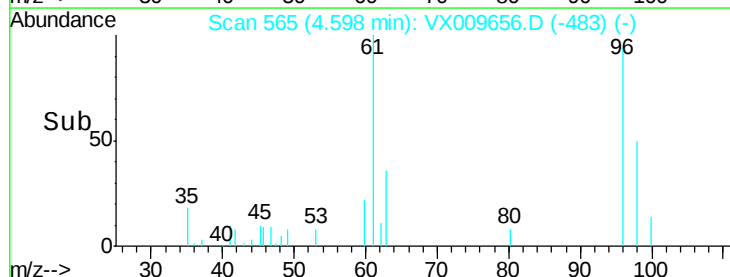
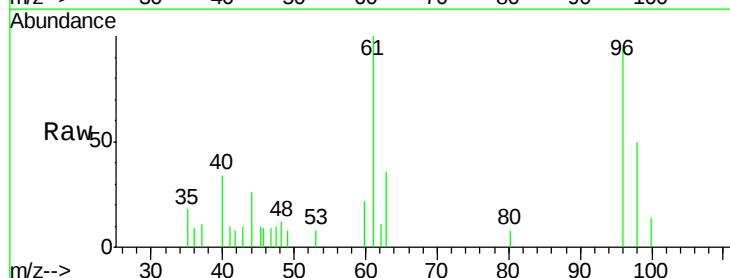
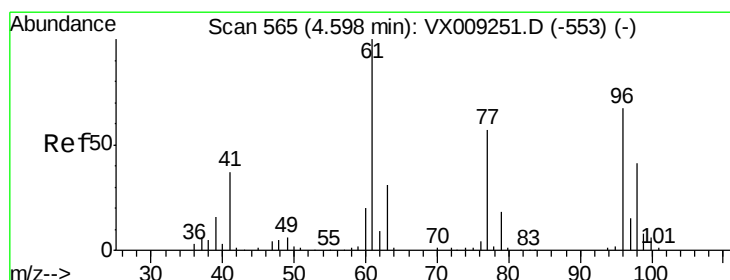
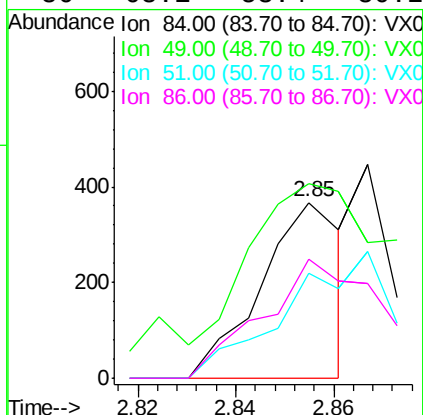
Ion Ratio Lower Upper

84 100

49 91.8 114.6 171.8#

51 59.9 35.5 53.3#

86 68.1 53.4 80.2



#22

cis-1,2-Dichloroethene

Concen: 0.735 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX009656.D

Acq: 17 May 2019 12:09

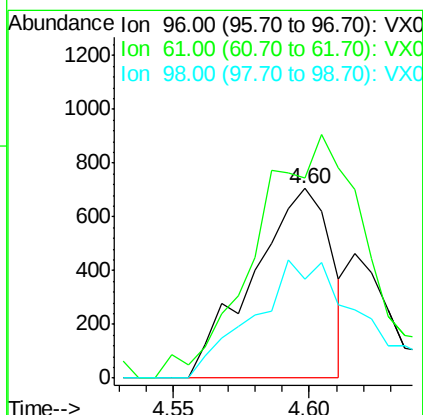
Tgt Ion: 96 Resp: 1417

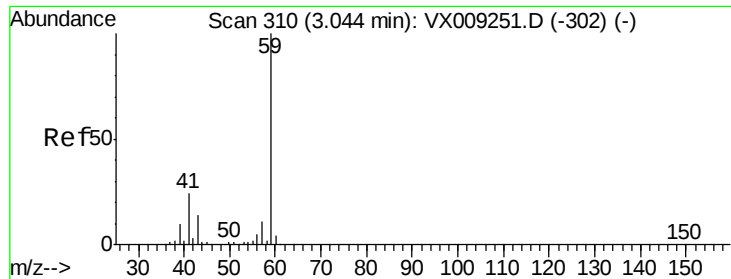
Ion Ratio Lower Upper

96 100

61 94.5 127.7 191.5#

98 78.1 50.5 75.7#



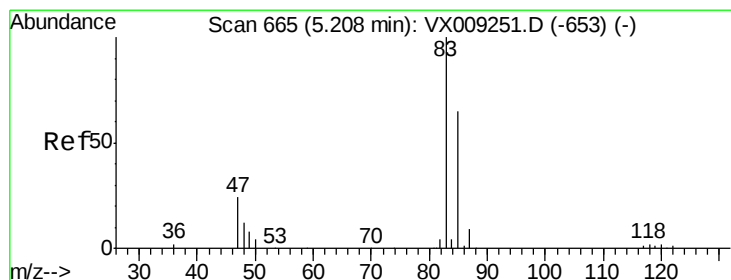
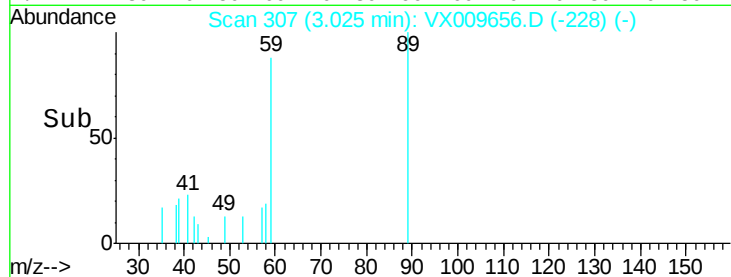
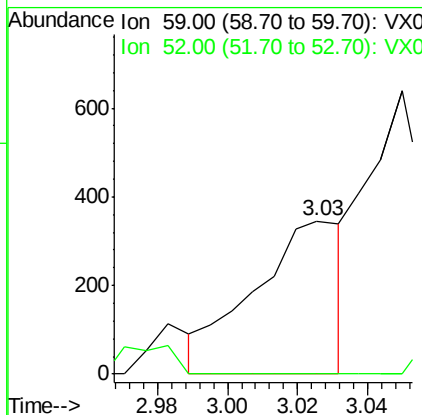
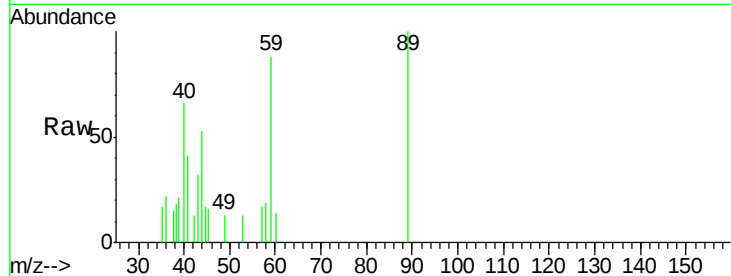


#23

tert-Butyl Alcohol  
 Concen: 1.179 ug/l  
 RT: 3.03 min Scan# 307  
 Delta R.T. -0.02 min  
 Lab File: VX009656.D  
 Acq: 17 May 2019 12:09

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 55-ST-13

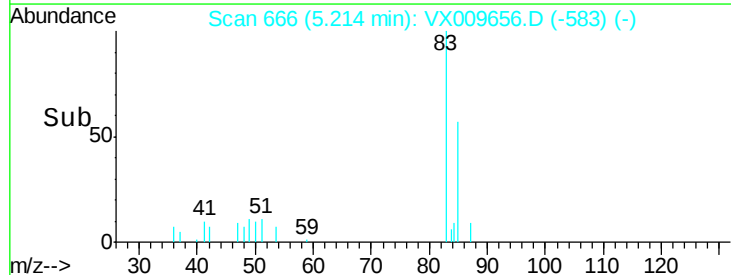
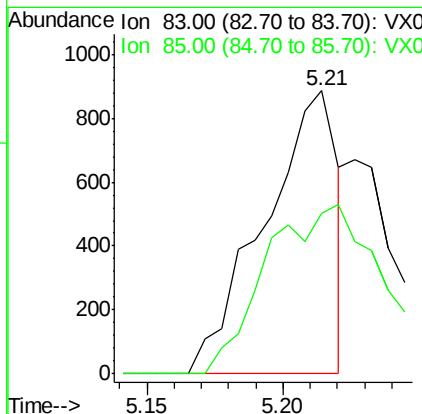
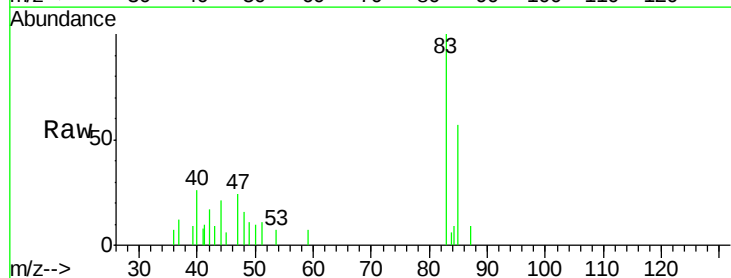
Tot Ion: 59 Resp: 612  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.2 0.2#

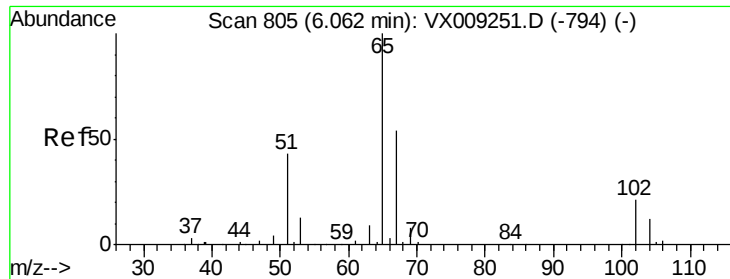


#25

Chloroform  
 Concen: 0.530 ug/l  
 RT: 5.21 min Scan# 666  
 Delta R.T. 0.01 min  
 Lab File: VX009656.D  
 Acq: 17 May 2019 12:09

Tgt Ion: 83 Resp: 1661  
 Ion Ratio Lower Upper  
 83 100  
 85 56.9 51.9 77.9

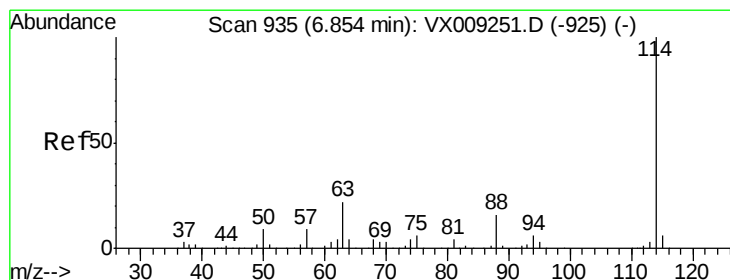
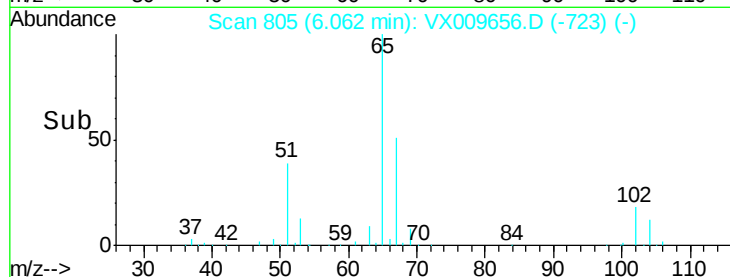
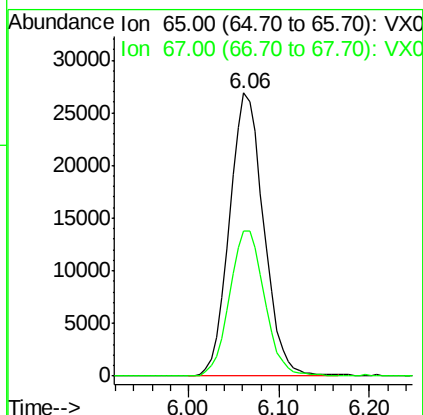
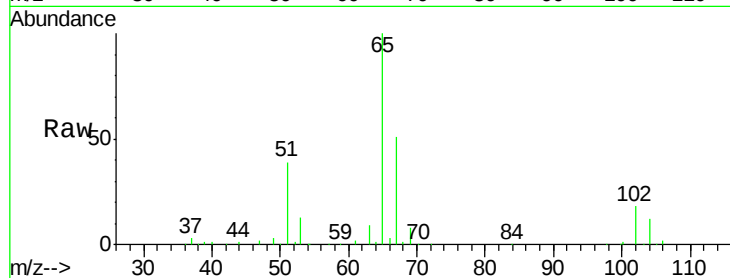




#27  
 1,2-Dichloroethane-d4  
 Concen: 31.028 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX009656.D  
 Acq: 17 May 2019 12:09

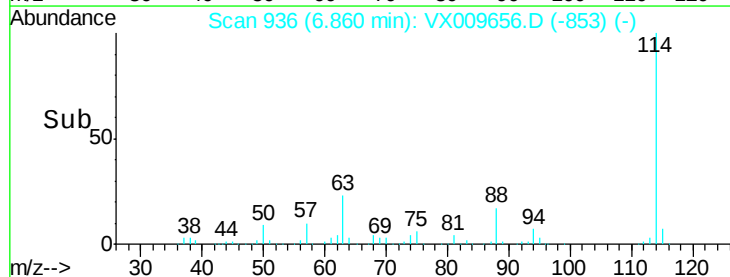
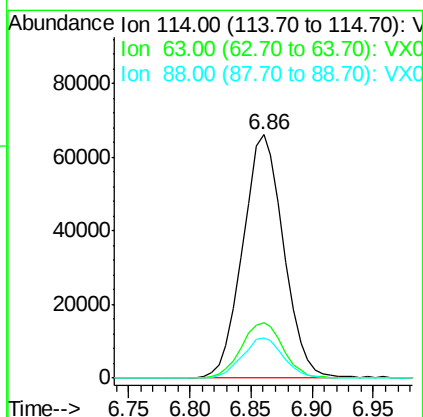
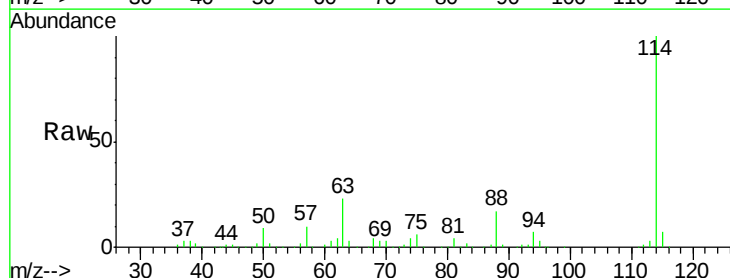
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 55-ST-13

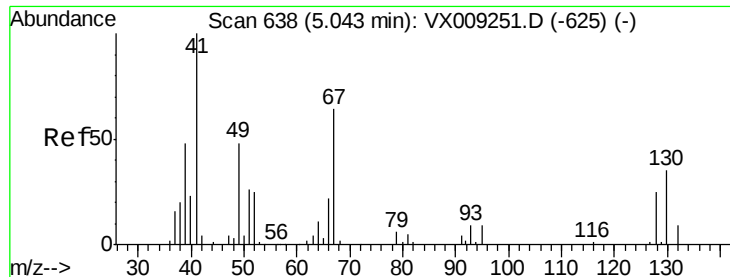
Tot Ion: 65 Resp: 70666  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 43.1 64.7



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.01 min  
 Lab File: VX009656.D  
 Acq: 17 May 2019 12:09

Tgt Ion: 114 Resp: 153704  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 18.0 27.0  
 88 16.8 13.4 20.0

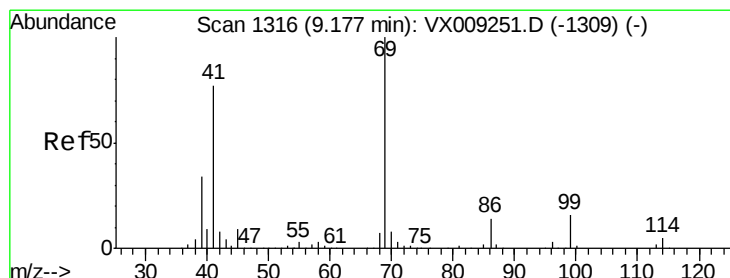
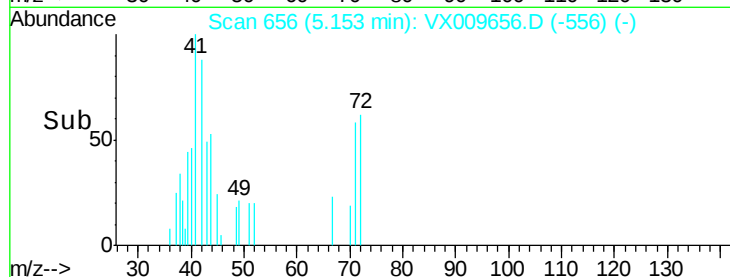
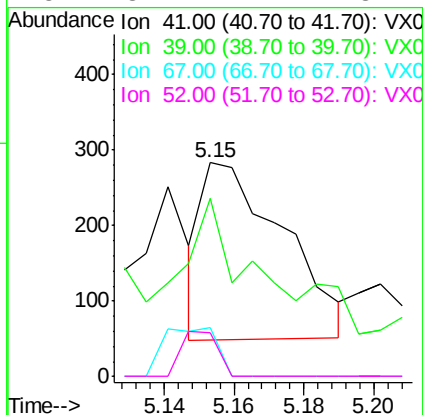
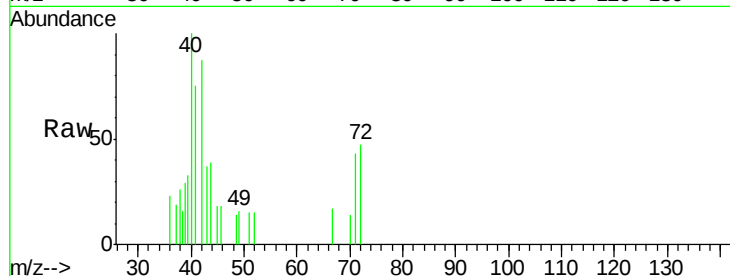




#35  
Methacrylonitrile  
Concen: 0.206 ug/l  
RT: 5.15 min Scan# 656  
Delta R.T. 0.11 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

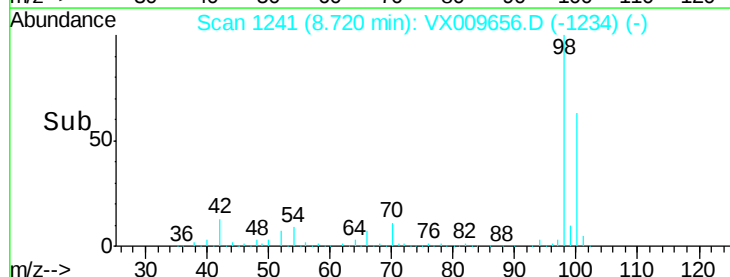
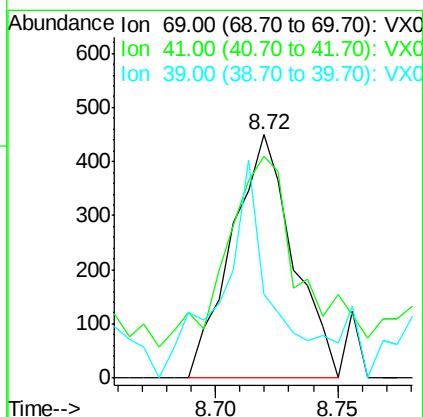
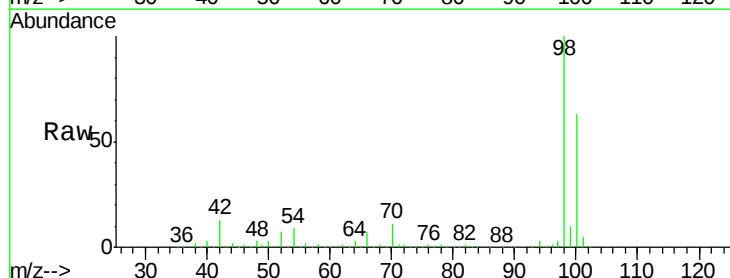
Instrument :  
MSVOA\_X  
ClientSampled :  
55-ST-13

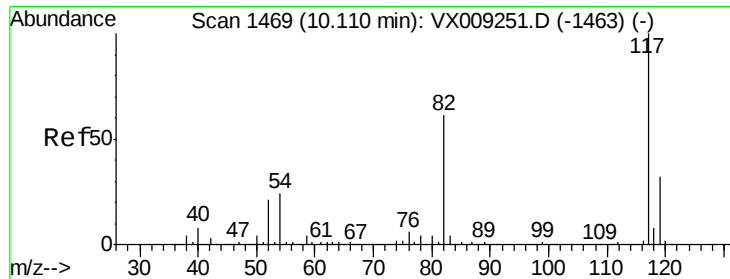
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 380   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 62.7  | 24.1  | 72.3  |
| 67       | 35.1  | 32.2  | 96.6  |
| 52       | 31.4  | 12.4  | 37.4  |



#51  
Ethyl methacrylate  
Concen: 0.247 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. -0.46 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 786   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 63.8  | 38.4  | 115.2 |
| 39       | 19.8  | 17.2  | 51.5  |

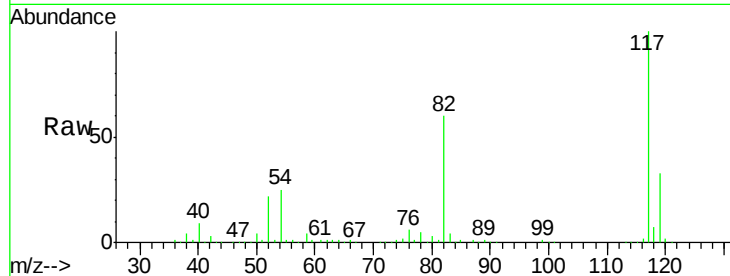




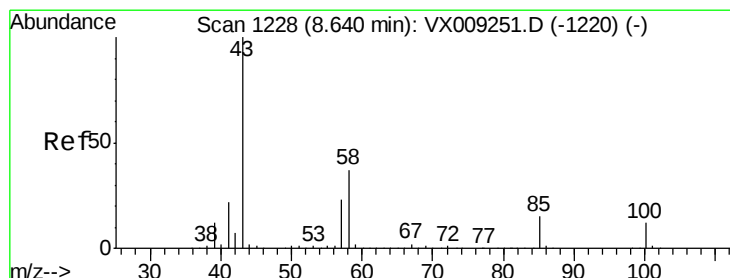
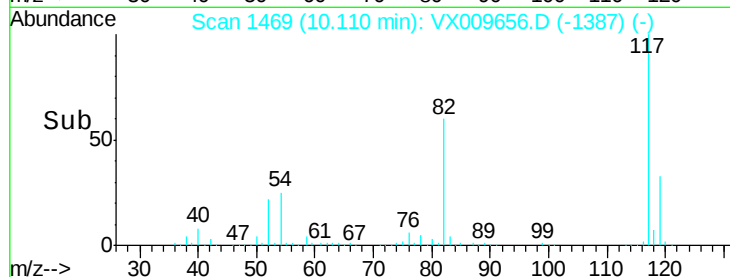
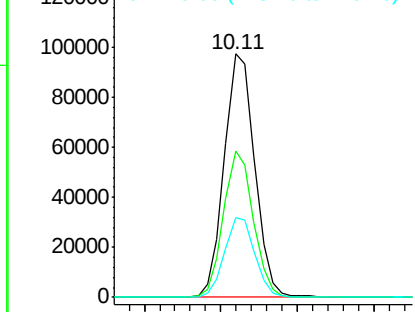
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

Instrument :  
MSVOA\_X  
ClientSampled :  
55-ST-13

Tot Ion:117 Resp: 134904  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.8 71.8  
119 32.6 25.6 38.4

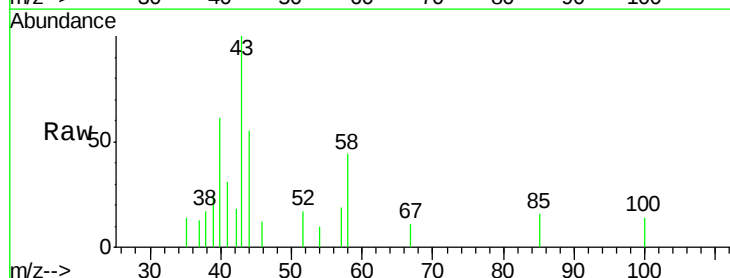


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 119.00 (118.70 to 119.70): V

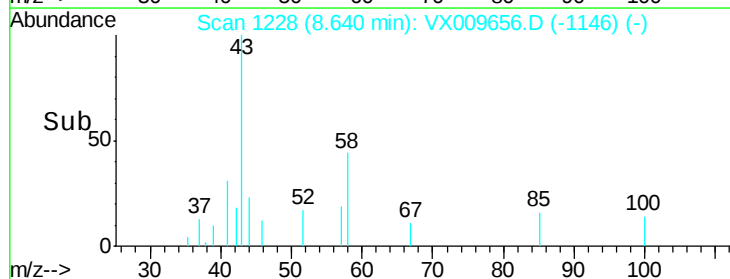
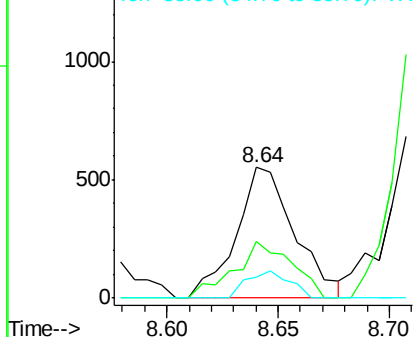


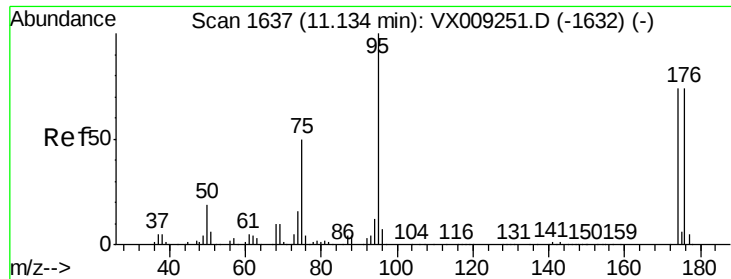
#58  
4-Methyl-2-Pentanone  
Concen: 0.306 ug/l  
RT: 8.64 min Scan# 1228  
Delta R.T. 0.00 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

Tgt Ion: 43 Resp: 1015  
Ion Ratio Lower Upper  
43 100  
58 42.5 29.4 44.0  
85 15.0 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0

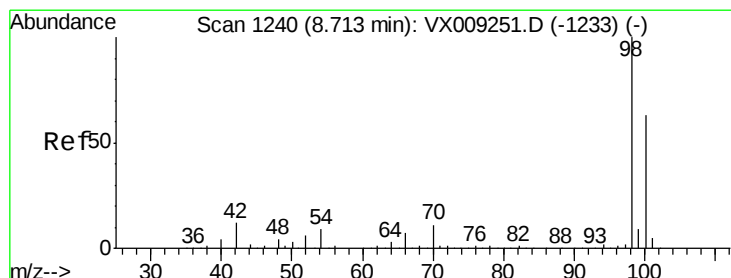
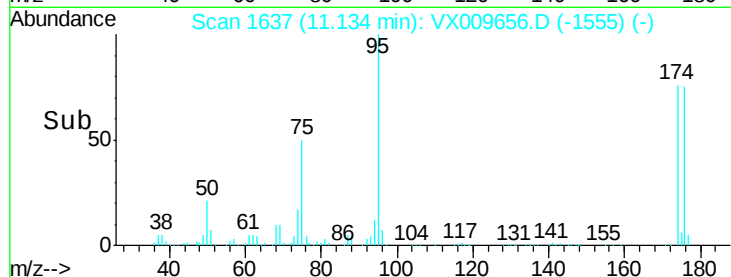
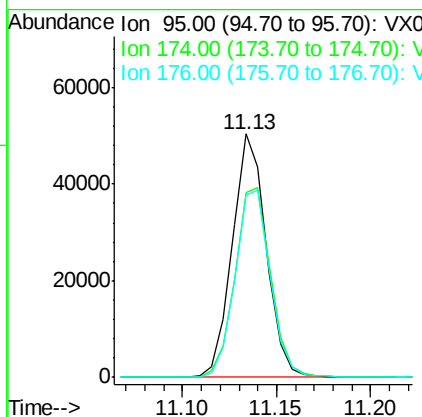
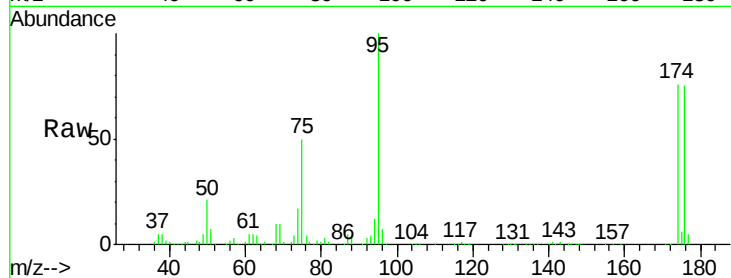




#60  
4-Bromofluorobenzene  
Concen: 27.381 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

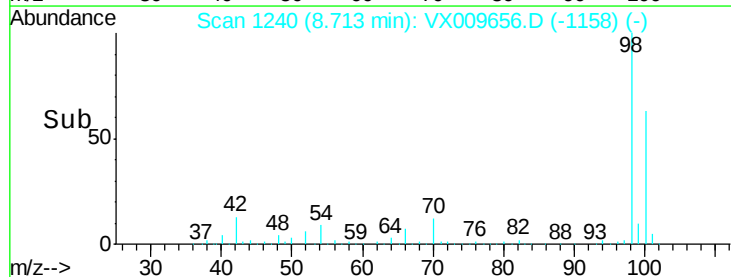
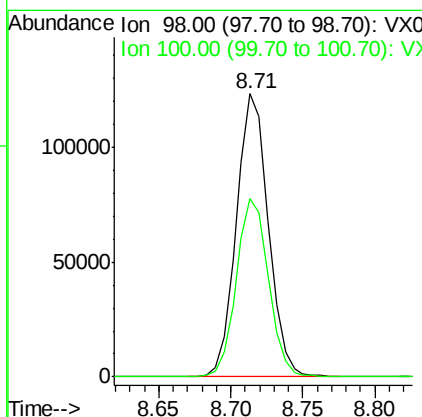
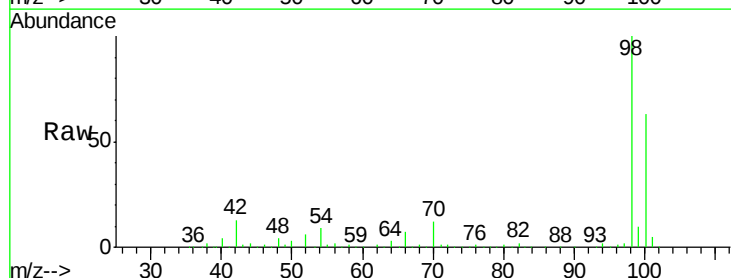
Instrument :  
MSVOA\_X  
ClientSampleId :  
55-ST-13

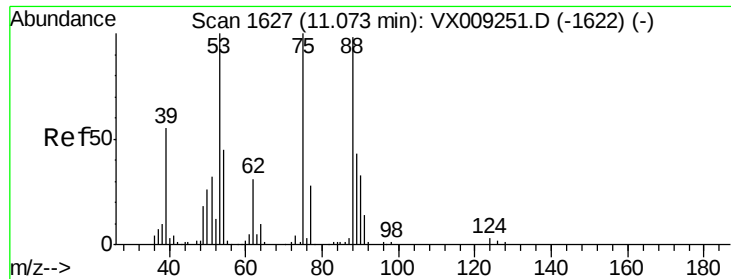
Tot Ion: 95 Resp: 62766  
Ion Ratio Lower Upper  
95 100  
174 82.3 63.6 95.4  
176 80.3 62.4 93.6



#63  
Toluene-d8  
Concen: 29.757 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

Tgt Ion: 98 Resp: 190326  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.3 78.5





#77  
t-1,4-Dichloro-2-butene  
Concen: 32.859 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.06 min  
Lab File: VX009656.D  
Acq: 17 May 2019 12:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
55-ST-13

Tot Ion: 75 Resp: 32433  
Ion Ratio Lower Upper  
75 100  
53 0.0 50.0 149.8#  
89 0.0 21.6 65.0#

