

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021819\  
 Data File : VF061678.D  
 Acq On : 18 Feb 2019 15:03  
 Operator : VA/AP  
 Sample : K1518-09  
 Misc : 6.41g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CABLE-BRIDGE-FOUNDATION-D-5

Quant Time: Feb 19 01:57:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 03:27:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T. | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.88 | 168  | 699      | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.60 | 114  | 987      | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.80 | 117  | 347      | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 0.00 | 152  | 0        | 0.00  | ug/l  | -12.56   |

|                             |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| System Monitoring Compounds |        |     |          |       |        |       |
| 33) 1,2-Dichloroethane-d4   | 0.00   | 65  | 0        | 0.00  | ug/l   |       |
| Spiked Amount               | 50.000 |     | Recovery | =     | 0.00%  |       |
| 35) Dibromofluoromethane    | 4.14   | 113 | 73       | 9.96  | ug/l   | 0.02  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 19.92% |       |
| 50) Toluene-d8              | 7.55   | 98  | 602      | 28.57 | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 57.14% |       |
| 62) 4-Bromofluorobenzene    | 0.00   | 95  | 0        | 0.00  | ug/l   |       |
| Spiked Amount               | 50.000 |     | Recovery | =     | 0.00%  |       |

| Target Compounds             | R.T. | QIon | Response | Conc     | Units  | Qvalue |
|------------------------------|------|------|----------|----------|--------|--------|
| 3) Chloromethane             | 1.10 | 50   | 162      | 19.235   | ug/l # | 42     |
| 4) Vinyl Chloride            | 1.22 | 62   | 79       | 10.090   | ug/l # | 40     |
| 5) Bromomethane              | 1.35 | 94   | 356      | 66.064   | ug/l # | 3      |
| 6) Chloroethane              | 1.31 | 64   | 74       | 19.178   | ug/l # | 40     |
| 7) Trichlorofluoromethane    | 1.47 | 101  | 65       | 6.883    | ug/l # | 20     |
| 8) Diethyl Ether             | 1.60 | 74   | 100      | 42.019   | ug/l   | 77     |
| 11) Tert butyl alcohol       | 2.57 | 59   | 59       | 198.886  | ug/l # | 63     |
| 12) 1,1-Dichloroethene       | 1.77 | 96   | 69       | 11.520   | ug/l # | 1      |
| 13) Acrolein                 | 1.99 | 56   | 436      | 1169.402 | ug/l # | 28     |
| 14) Allyl chloride           | 2.11 | 41   | 902      | 122.720  | ug/l # | 60     |
| 15) Acrylonitrile            | 2.93 | 53   | 62       | 58.922   | ug/l # | 18     |
| 16) Acetone                  | 2.23 | 43   | 334      | 303.697  | ug/l # | 46     |
| 17) Carbon Disulfide         | 1.81 | 76   | 65       | 3.452    | ug/l # | 73     |
| 18) Methyl Acetate           | 2.23 | 43   | 281      | 113.419  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether  | 2.37 | 73   | 154      | 15.044   | ug/l # | 1      |
| 20) Methylene Chloride       | 2.17 | 84   | 134      | 21.291   | ug/l # | 1      |
| 21) trans-1,2-Dichloroethene | 2.31 | 96   | 150      | 23.037   | ug/l # | 1      |
| 22) Diisopropyl ether        | 2.80 | 45   | 248      | 14.056   | ug/l # | 38     |
| 23) Vinyl Acetate            | 3.25 | 43   | 706      | 81.927   | ug/l # | 74     |
| 24) 1,1-Dichloroethane       | 2.82 | 63   | 61       | 5.713    | ug/l # | 86     |
| 25) 2-Butanone               | 4.33 | 43   | 99       | 41.211   | ug/l # | 55     |
| 26) 2,2-Dichloropropane      | 3.61 | 77   | 77       | 17.026   | ug/l # | 52     |
| 27) cis-1,2-Dichloroethene   | 3.54 | 96   | 69       | 8.073    | ug/l   | 1      |
| 29) Tetrahydrofuran          | 4.07 | 42   | 180      | 164.858  | ug/l # | 33     |
| 30) Chloroform               | 3.78 | 83   | 91       | 7.494    | ug/l # | 18     |
| 31) Cyclohexane              | 3.64 | 56   | 83       | 7.181    | ug/l # | 16     |
| 36) 1,1-Dichloropropene      | 4.12 | 75   | 97       | 9.921    | ug/l # | 37     |
| 37) Ethyl Acetate            | 4.13 | 43   | 99       | 21.800   | ug/l # | 30     |
| 40) Benzene                  | 4.74 | 78   | 74       | 2.894    | ug/l # | 52     |
| 41) Methacrylonitrile        | 4.75 | 41   | 230      | 99.033   | ug/l # | 25     |
| 43) Isopropyl Acetate        | 6.92 | 43   | 299      | 55.622   | ug/l # | 43     |
| 45) 1,2-Dichloropropane      | 6.24 | 63   | 63       | 10.191   | ug/l # | 44     |
| 46) Dibromomethane           | 5.99 | 93   | 102      | 26.798   | ug/l # | 1      |
| 48) Methyl methacrylate      | 6.68 | 41   | 143      | 44.204   | ug/l # | 17     |

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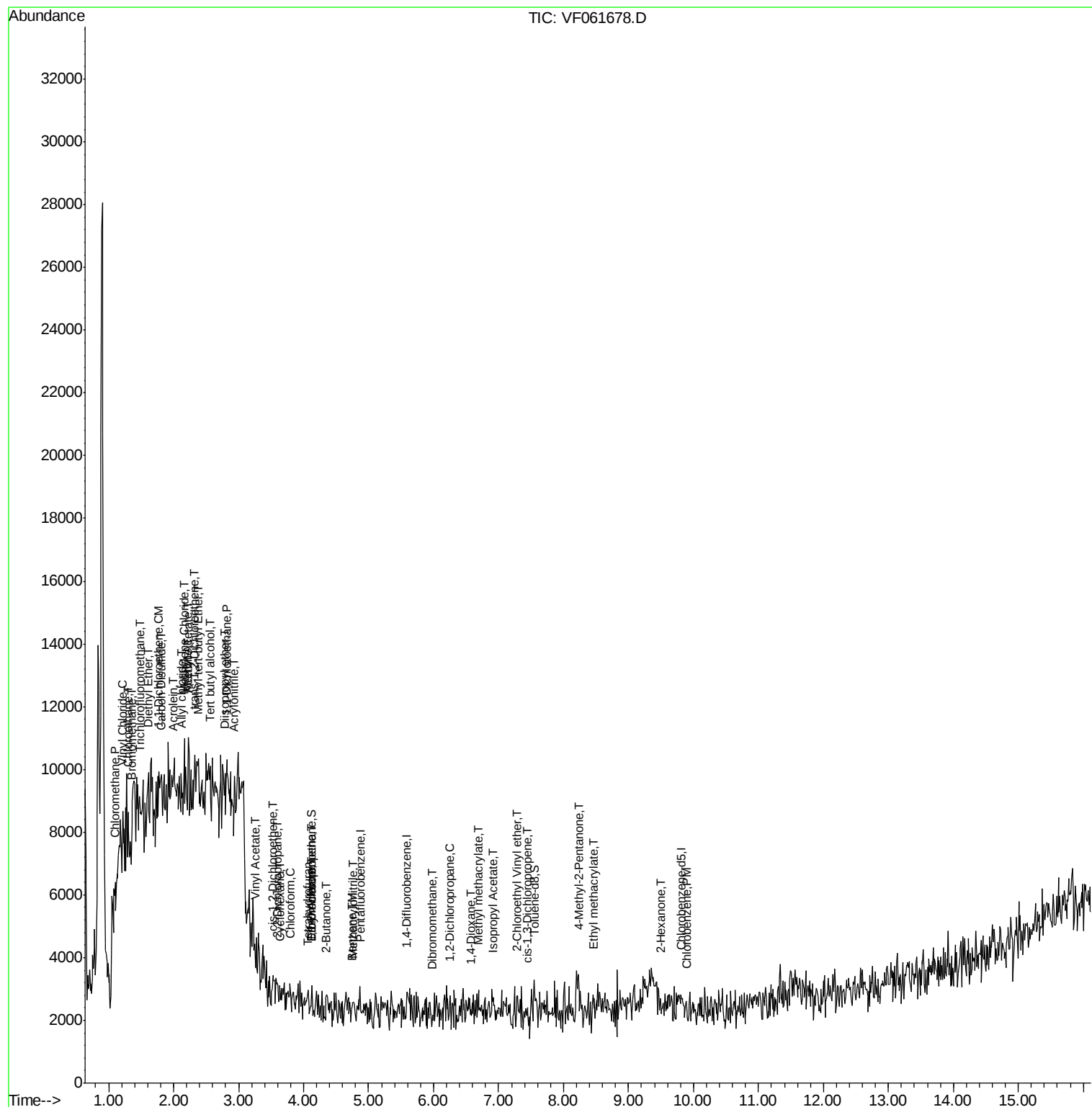
| Internal Standards            | R.T. | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|------|------|----------|----------|--------|----------|
| 49) 1,4-Dioxane               | 6.57 | 88   | 62       | 2038.784 | ug/l # | 20       |
| 51) 4-Methyl-2-Pentanone      | 8.24 | 43   | 59       | 15.361   | ug/l # | 34       |
| 54) cis-1,3-Dichloropropene   | 7.43 | 75   | 70       | 7.576    | ug/l # | 22       |
| 56) Ethyl methacrylate        | 8.46 | 69   | 60       | 11.826   | ug/l # | 26       |
| 58) 2-Chloroethyl Vinyl ether | 7.27 | 63   | 60       | 68.540   | ug/l # | 44       |
| 59) 2-Hexanone                | 9.50 | 43   | 105      | 38.998   | ug/l # | 23       |
| 65) Chlorobenzene             | 9.91 | 112  | 67       | 9.515    | ug/l # | 42       |

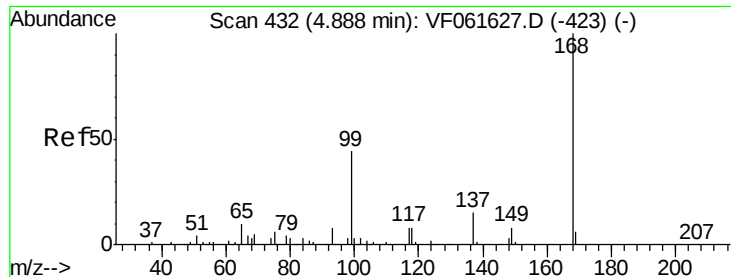
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

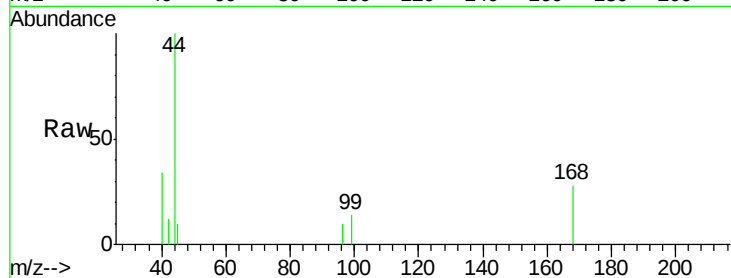
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion:168 Resp: 699

Ion Ratio Lower Upper

168 100

99 50.7 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

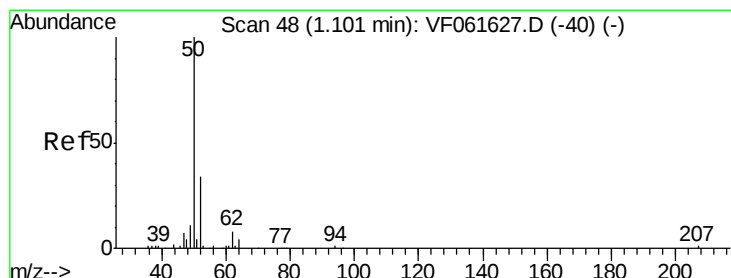
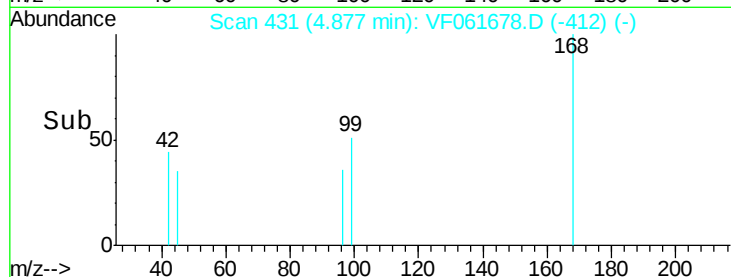
300

200

100

0

Time--> 4.80 4.85 4.90



#3

Chloromethane

Concen: 19.235 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061678.D

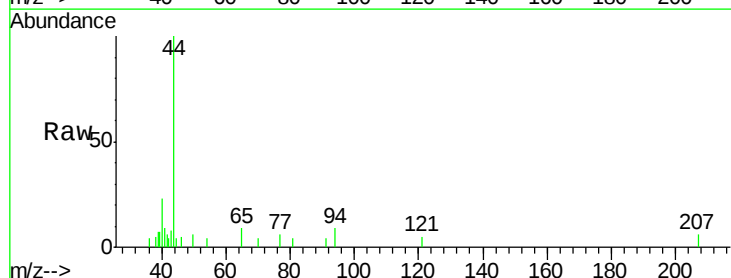
Acq: 18 Feb 2019 15:03

Tgt Ion: 50 Resp: 162

Ion Ratio Lower Upper

50 100

52 0.0 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

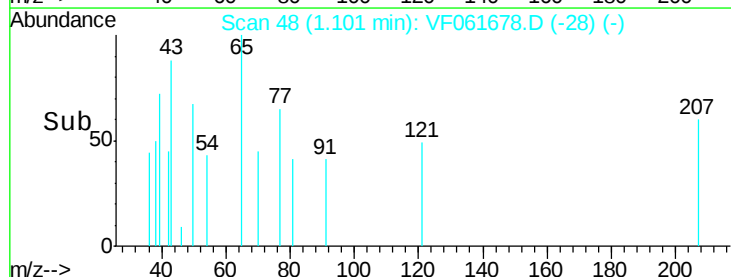
150

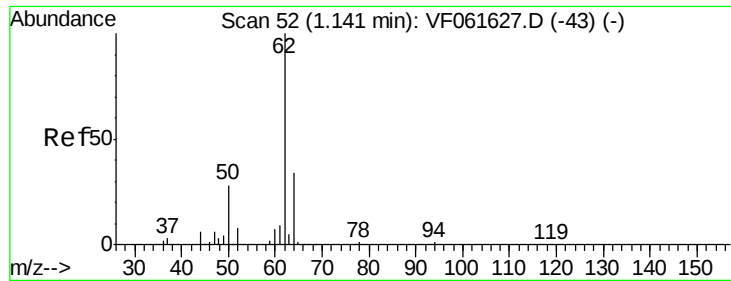
100

50

0

Time--> 1.08 1.10 1.12





#4

Vinyl Chloride

Concen: 10.090 ug/l

RT: 1.22 min Scan# 60

Delta R.T. 0.08 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

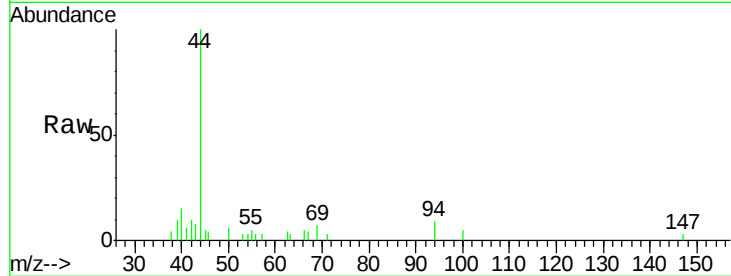
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 62 Resp: 79

Ion Ratio Lower Upper

62 100

64 0.0 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

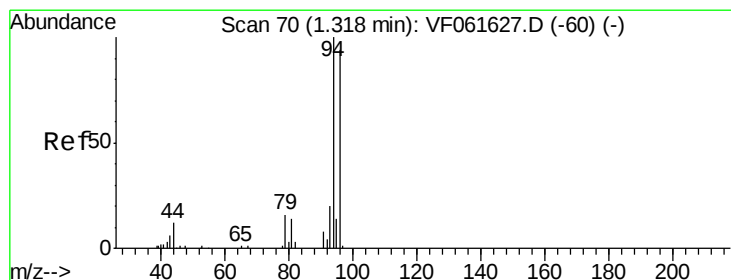
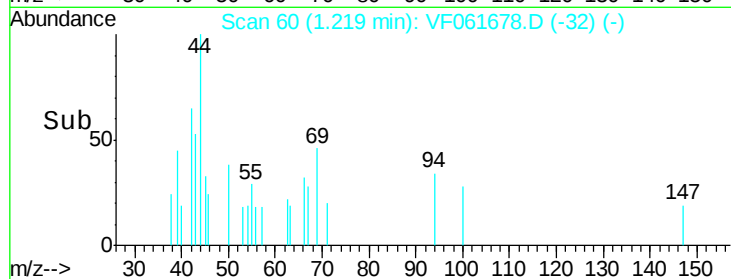
1.22

100

50

0

Time--> 1.18 1.20 1.22 1.24



#5

Bromomethane

Concen: 66.064 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.03 min

Lab File: VF061678.D

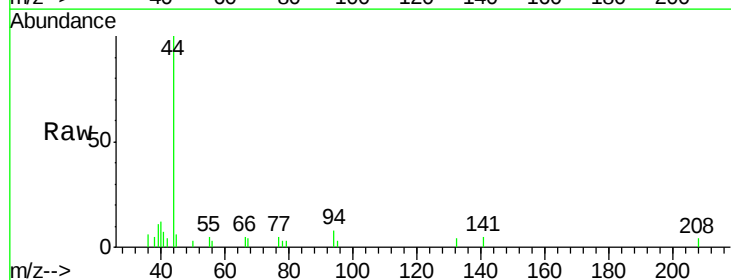
Acq: 18 Feb 2019 15:03

Tgt Ion: 94 Resp: 356

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.35

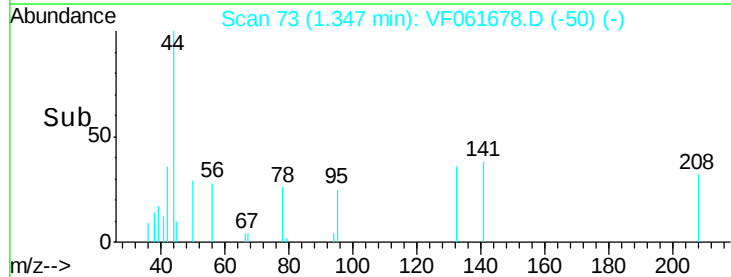
300

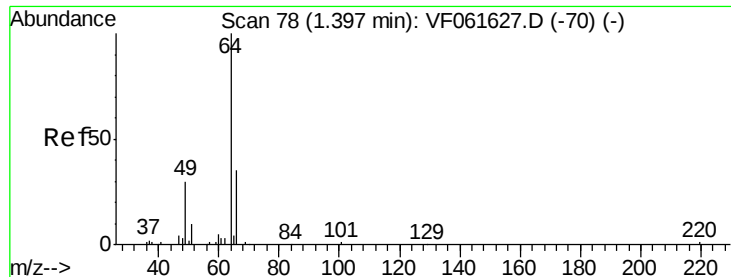
200

100

0

Time--> 1.30 1.35





#6

Chloroethane

Concen: 19.178 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.09 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

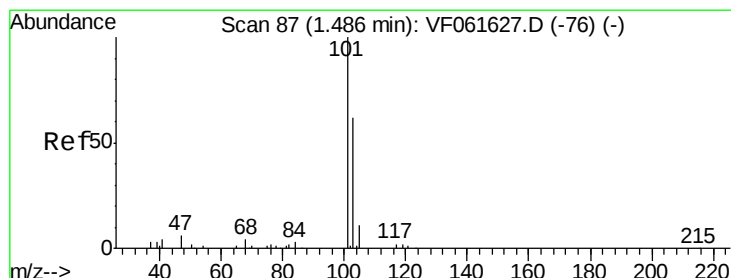
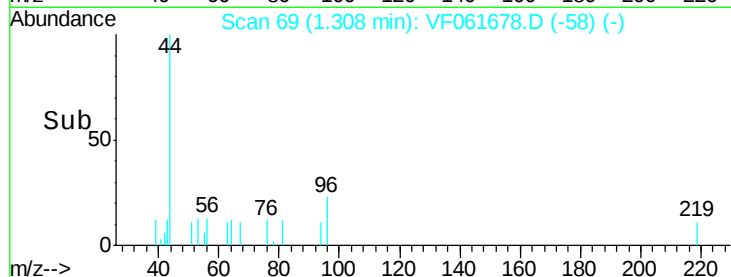
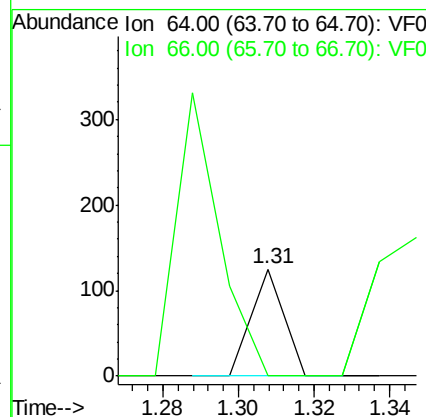
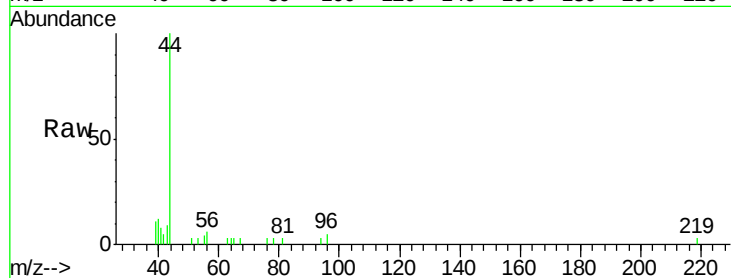
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 64 Resp: 74

Ion Ratio Lower Upper

64 100

66 0.0 27.9 41.9#



#7

Trichlorofluoromethane

Concen: 6.883 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061678.D

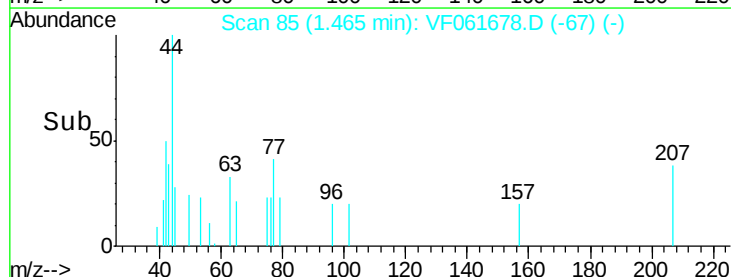
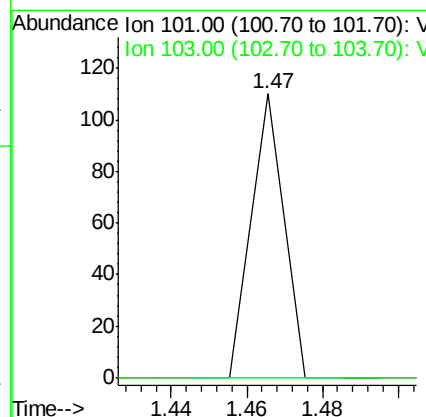
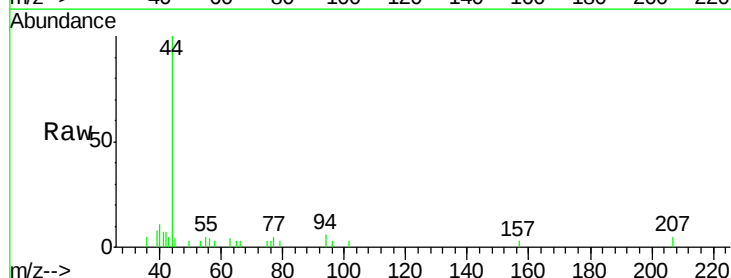
Acq: 18 Feb 2019 15:03

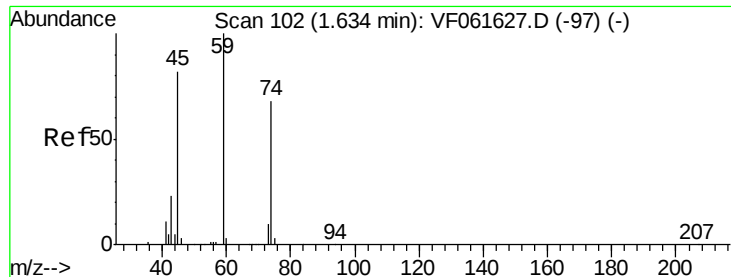
Tgt Ion: 101 Resp: 65

Ion Ratio Lower Upper

101 100

103 0.0 49.3 73.9#





#8

Diethyl Ether

Concen: 42.019 ug/l

RT: 1.60 min Scan# 99

Delta R.T. -0.03 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

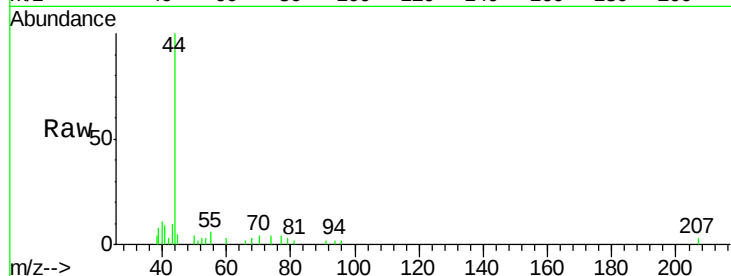
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 74 Resp: 100

Ion Ratio Lower Upper

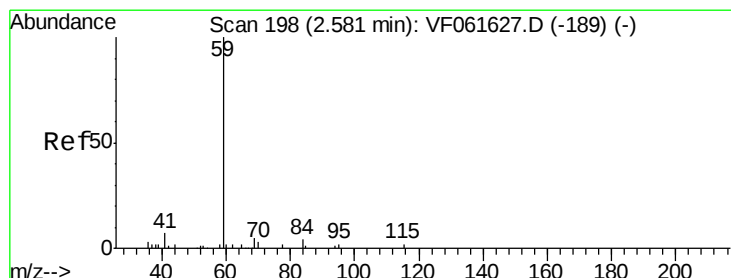
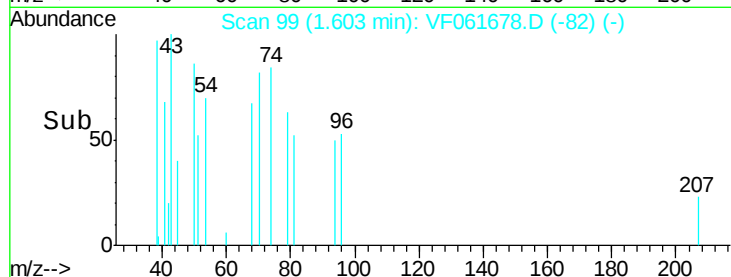
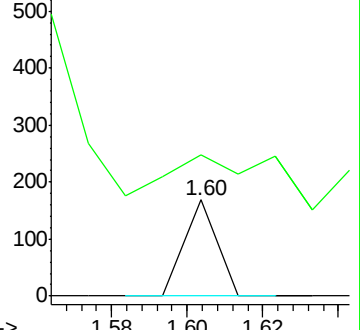
74 100

45 146.7 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 198.886 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061678.D

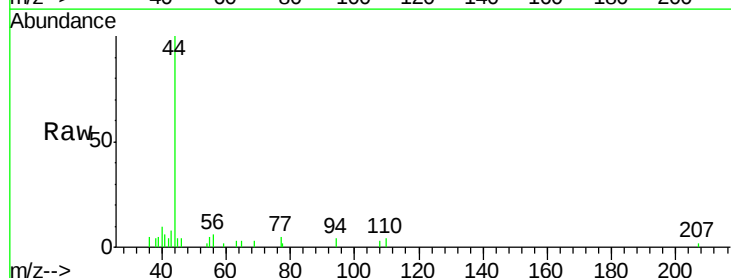
Acq: 18 Feb 2019 15:03

Tgt Ion: 59 Resp: 59

Ion Ratio Lower Upper

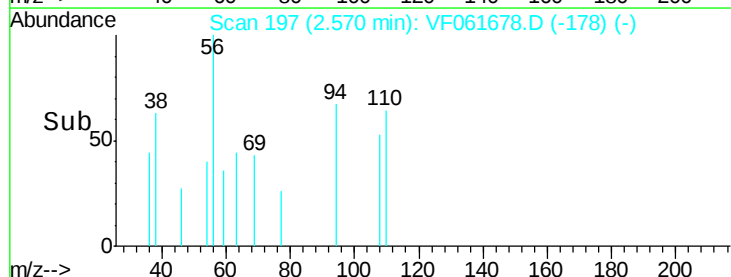
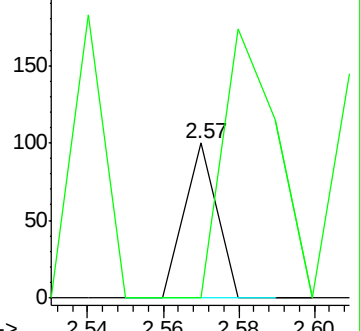
59 100

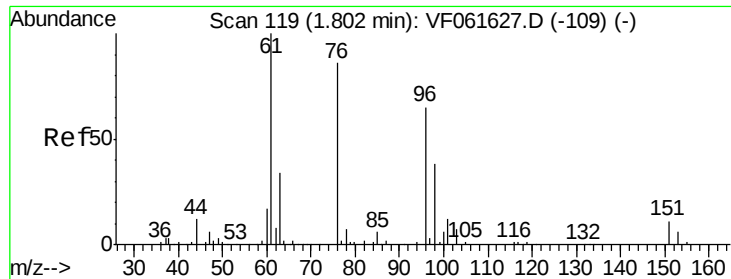
57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#12

1,1-Dichloroethene

Concen: 11.520 ug/l

RT: 1.77 min Scan# 116

Delta R.T. -0.03 min

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CABLE-BRIDGE-FOUNDATION-D-5

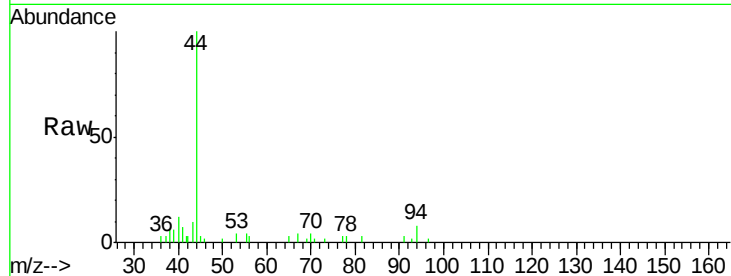
Tot Ion: 96 Resp: 69

Ion Ratio Lower Upper

96 100

61 0.0 122.6 184.0#

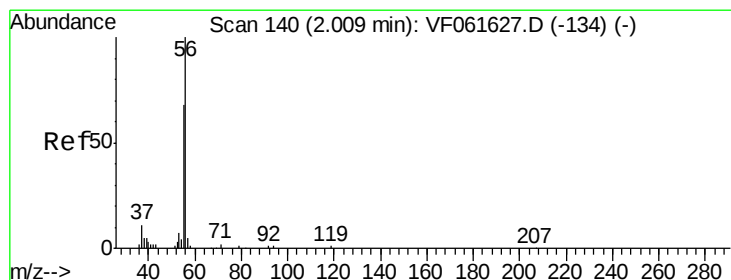
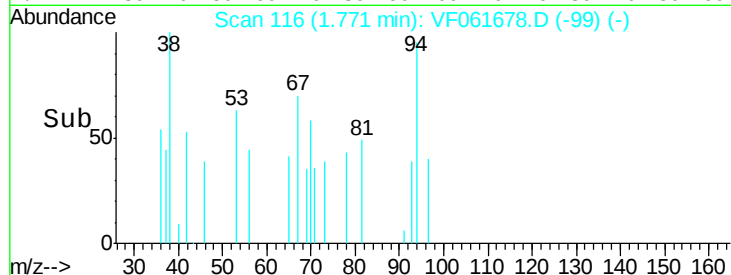
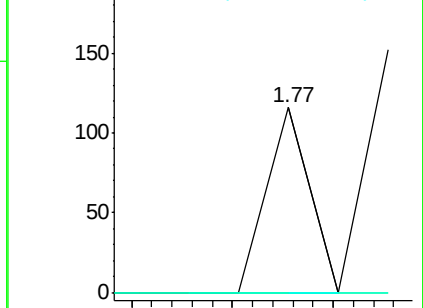
98 0.0 47.2 70.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 1169.402 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061678.D

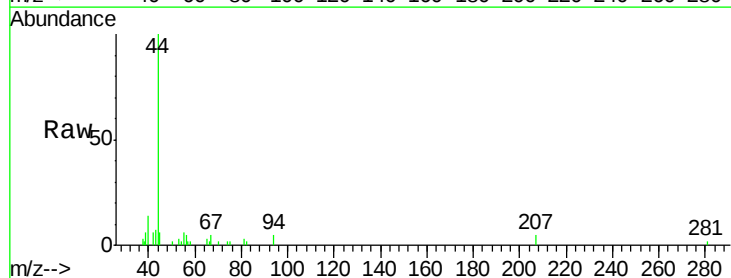
Acq: 18 Feb 2019 15:03

Tgt Ion: 56 Resp: 436

Ion Ratio Lower Upper

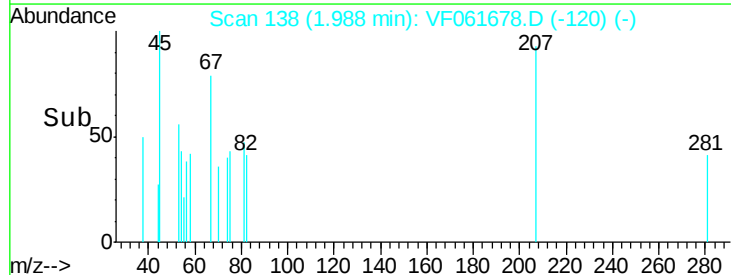
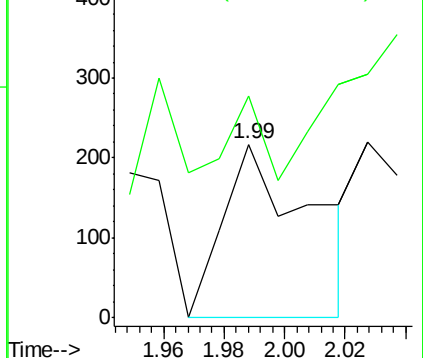
56 100

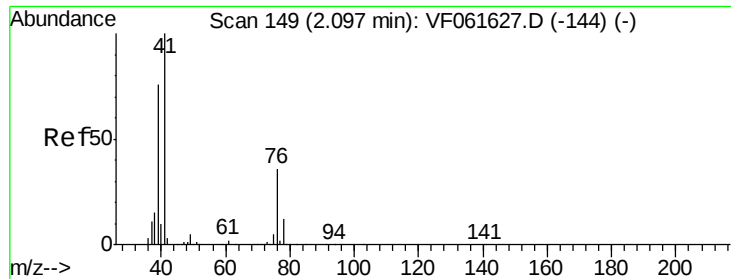
55 127.6 55.0 82.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 122.720 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

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Acq: 18 Feb 2019 15:03

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CABLE-BRIDGE-FOUNDATION-D-5

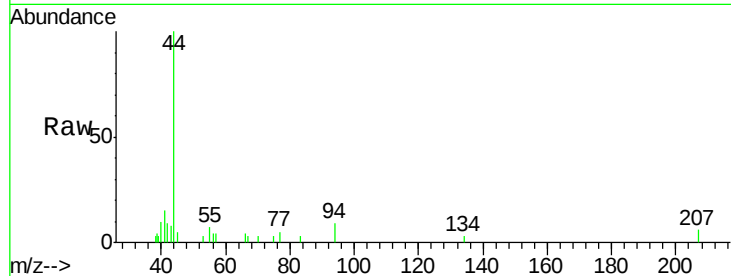
Tot Ion: 41 Resp: 902

Ion Ratio Lower Upper

41 100

39 52.0 61.6 92.4#

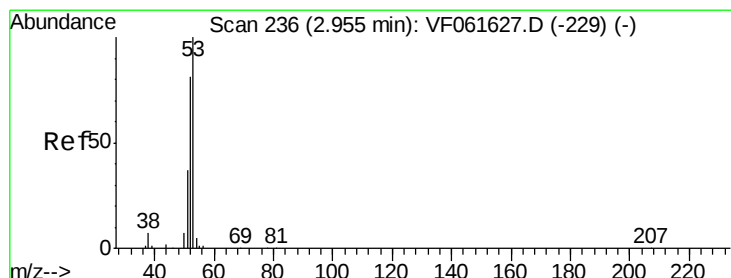
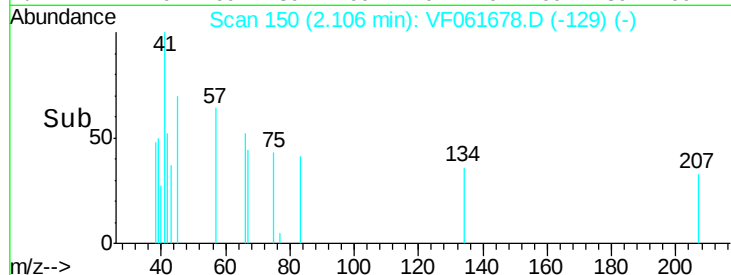
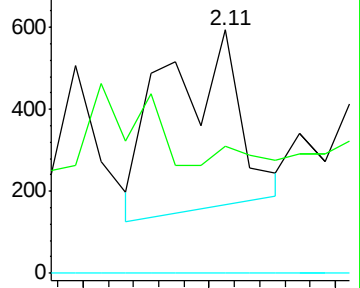
76 0.0 30.3 45.5#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 58.922 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.02 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

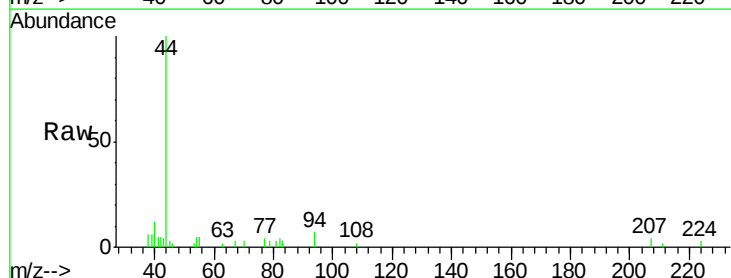
Tgt Ion: 53 Resp: 62

Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

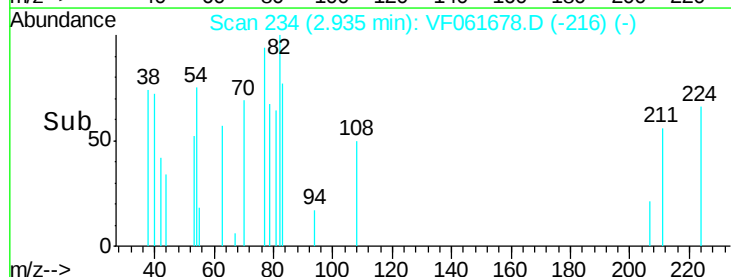
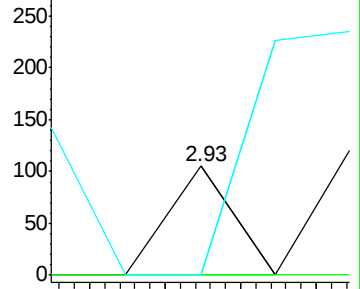
51 0.0 29.8 44.8#

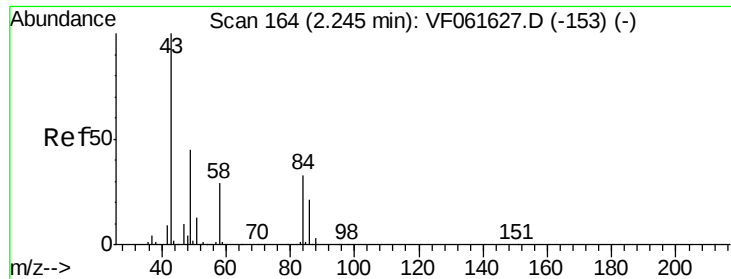


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 303.697 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

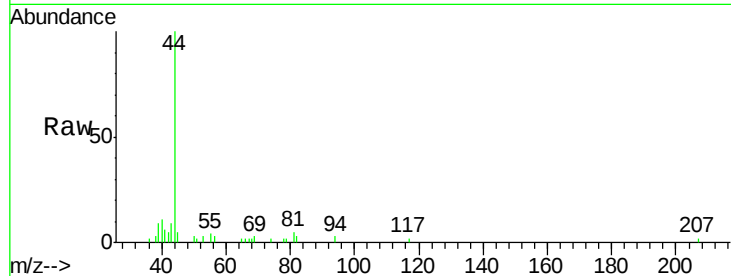
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 43 Resp: 334

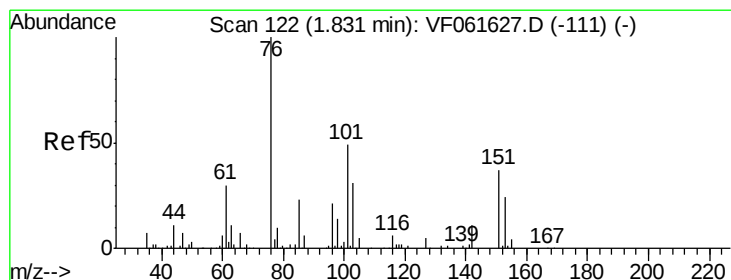
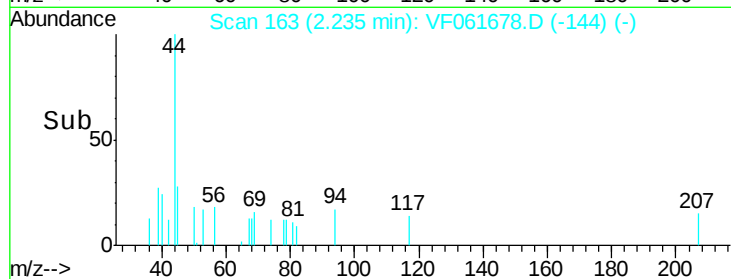
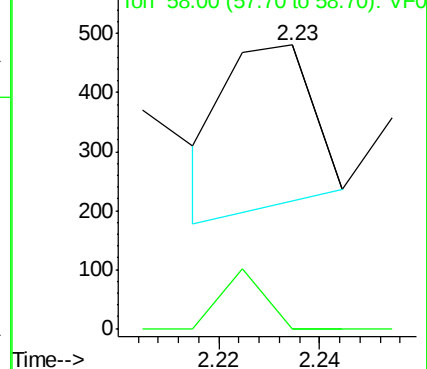
Ion Ratio Lower Upper

43 100

58 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#17

Carbon Disulfide

Concen: 3.452 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061678.D

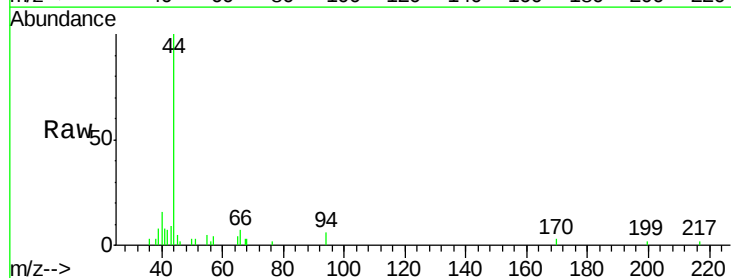
Acq: 18 Feb 2019 15:03

Tgt Ion: 76 Resp: 65

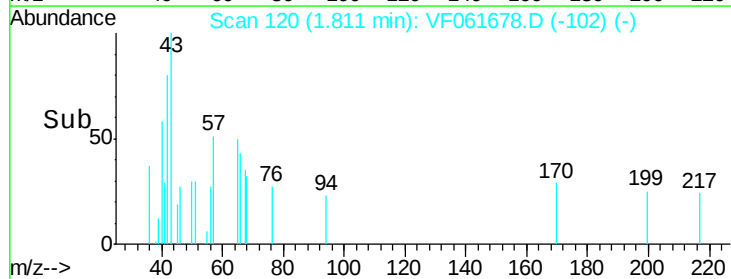
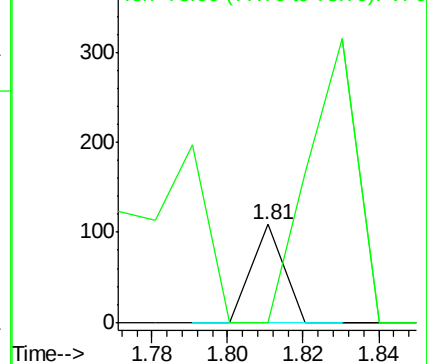
Ion Ratio Lower Upper

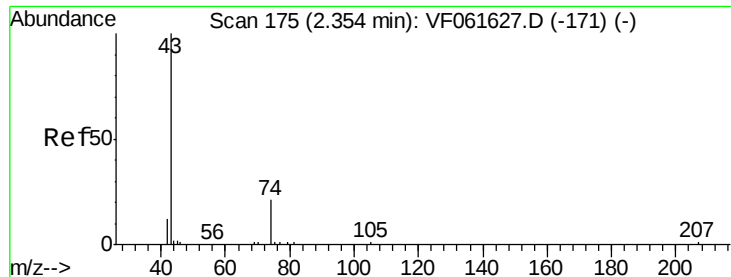
76 100

78 0.0 7.9 11.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0

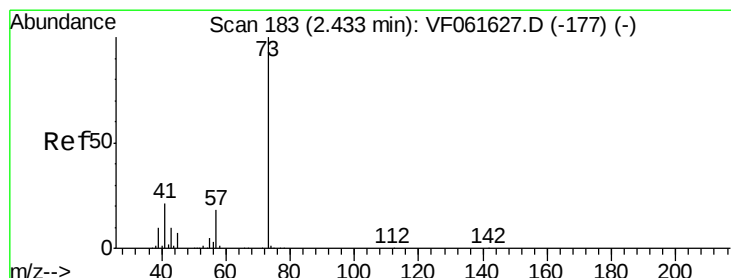
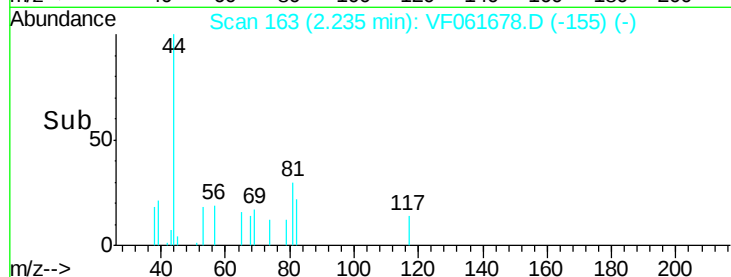
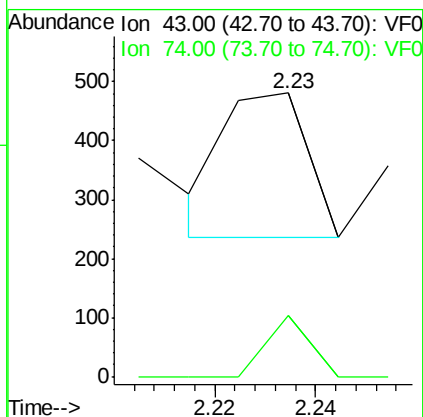
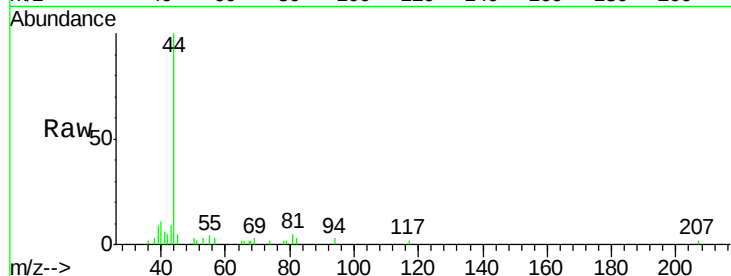




#18  
Methyl Acetate  
Concen: 113.419 ug/l  
RT: 2.23 min Scan# 163  
Delta R.T. -0.12 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

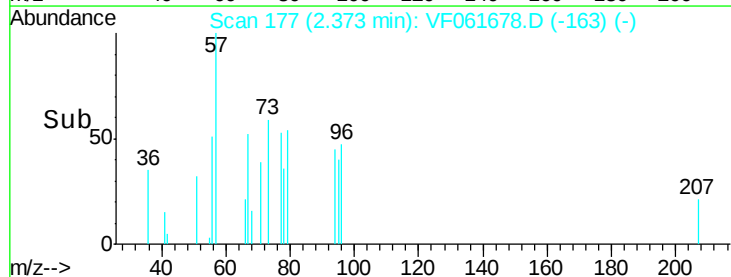
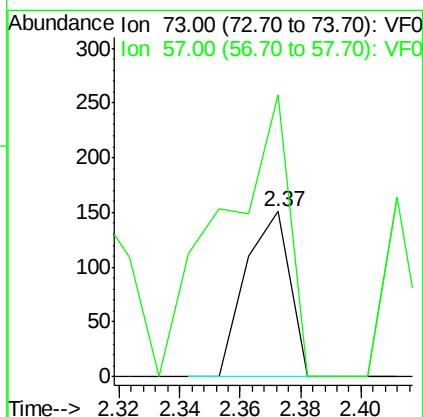
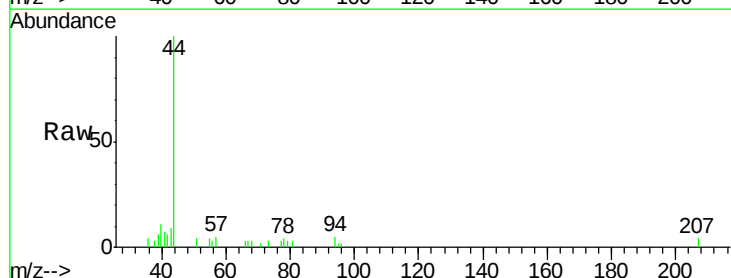
Instrument :  
MSVOA\_F  
ClientSampleId :  
CABLE-BRIDGE-FOUNDATION-D-5

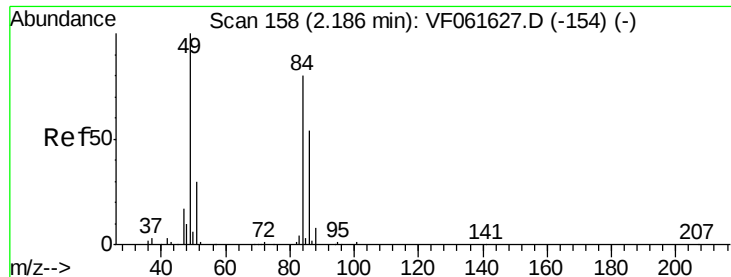
Tot Ion: 43 Resp: 281  
Ion Ratio Lower Upper  
43 100  
74 21.4 14.6 21.8



#19  
Methyl tert-butyl Ether  
Concen: 15.044 ug/l  
RT: 2.37 min Scan# 177  
Delta R.T. -0.06 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Tgt Ion: 73 Resp: 154  
Ion Ratio Lower Upper  
73 100  
57 170.9 15.8 23.8#

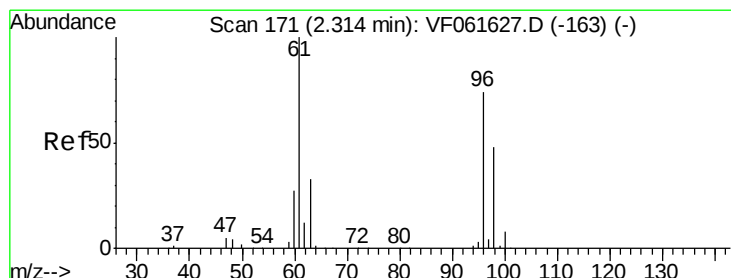
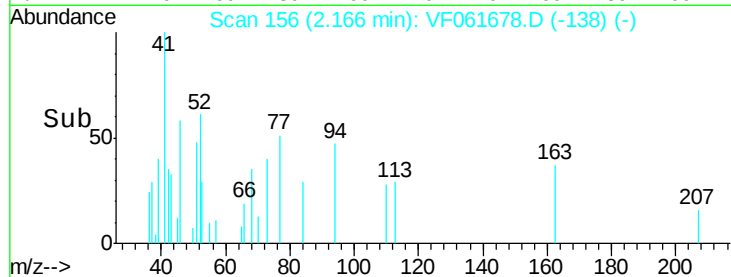
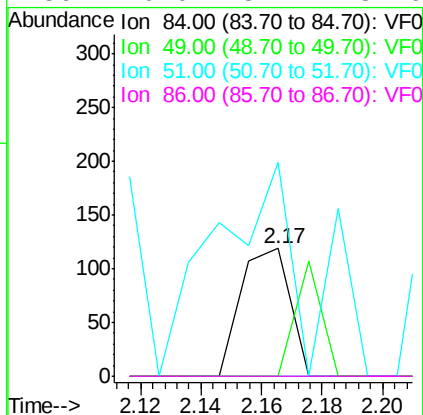
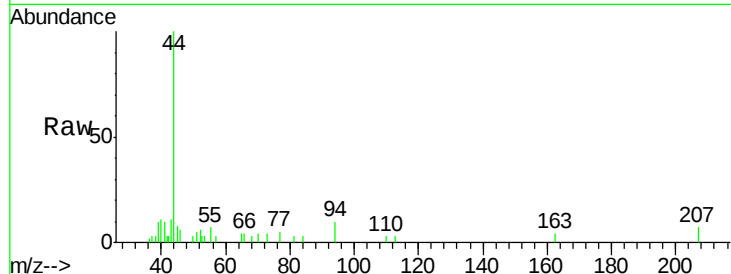




#20  
Methvlene Chloride  
Concen: 21.291 ug/l  
RT: 2.17 min Scan# 156  
Delta R.T. -0.02 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

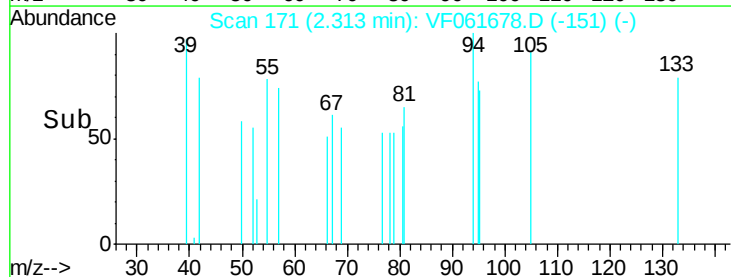
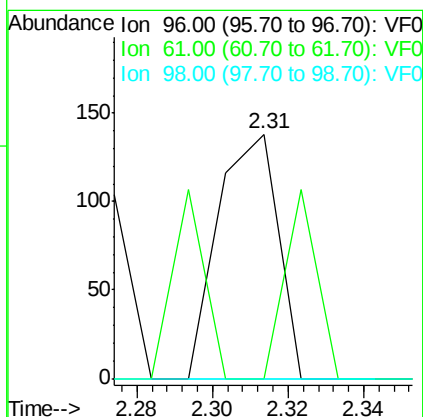
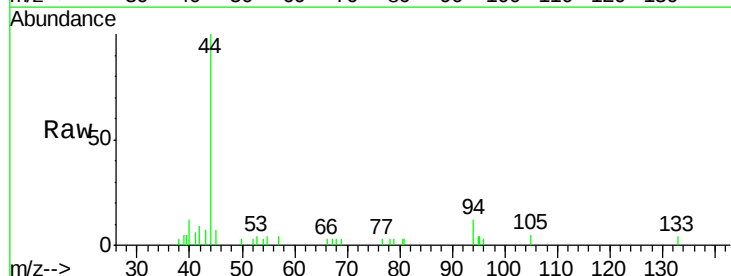
Instrument :  
MSVOA\_F  
ClientSampleId :  
CABLE-BRIDGE-FOUNDATION-D-5

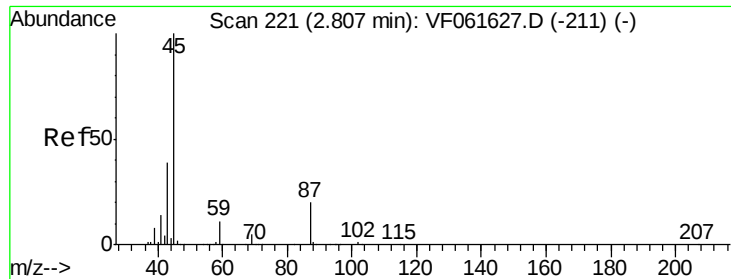
Tot Ion: 84 Resp: 134  
Ion Ratio Lower Upper  
84 100  
49 0.0 101.8 152.8#  
51 167.2 31.1 46.7#  
86 0.0 54.4 81.6#



#21  
trans-1,2-Dichloroethene  
Concen: 23.037 ug/l  
RT: 2.31 min Scan# 171  
Delta R.T. -0.00 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Tgt Ion: 96 Resp: 150  
Ion Ratio Lower Upper  
96 100  
61 0.0 108.2 162.4#  
98 0.0 52.2 78.2#





#22

Diisopropyl ether

Concen: 14.056 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 45 Resp: 248

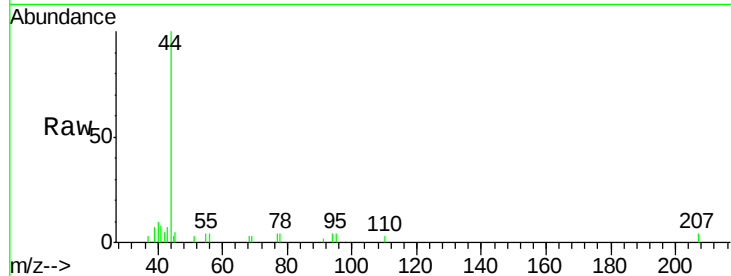
Ion Ratio Lower Upper

45 100

43 89.2 31.4 47.2#

87 0.0 16.3 24.5#

59 0.0 8.7 13.1#

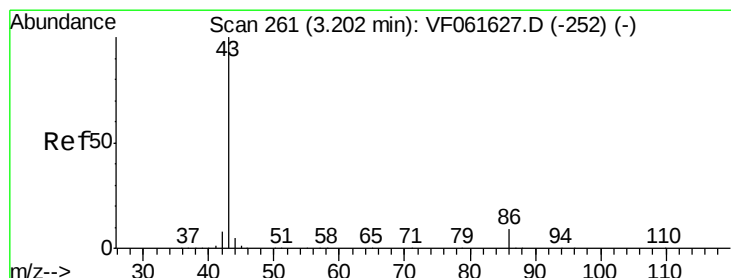
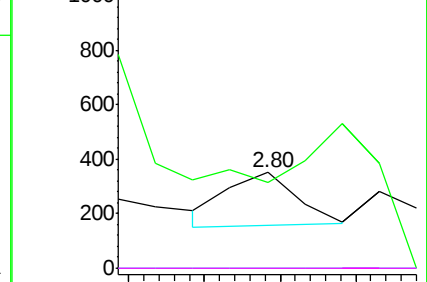
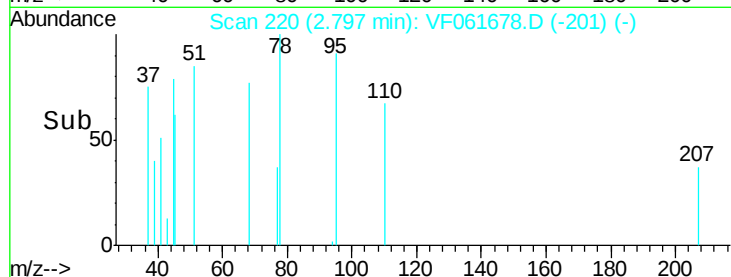


Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0



#23

Vinyl Acetate

Concen: 81.927 ug/l

RT: 3.25 min Scan# 266

Delta R.T. 0.05 min

Lab File: VF061678.D

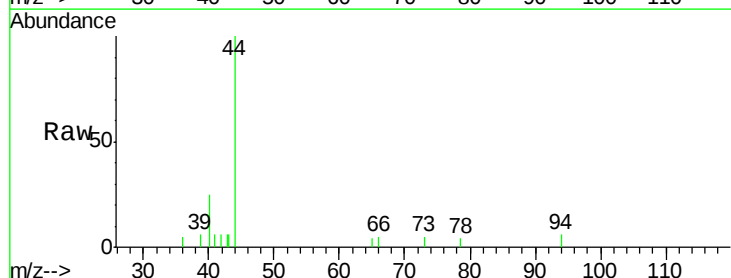
Acq: 18 Feb 2019 15:03

Tgt Ion: 43 Resp: 706

Ion Ratio Lower Upper

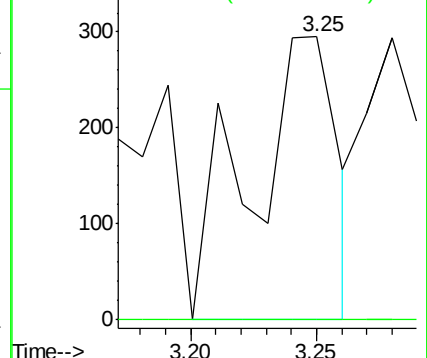
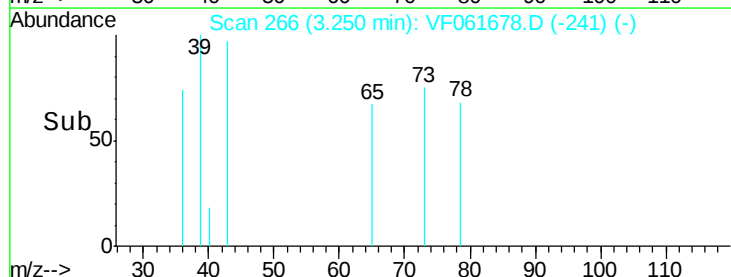
43 100

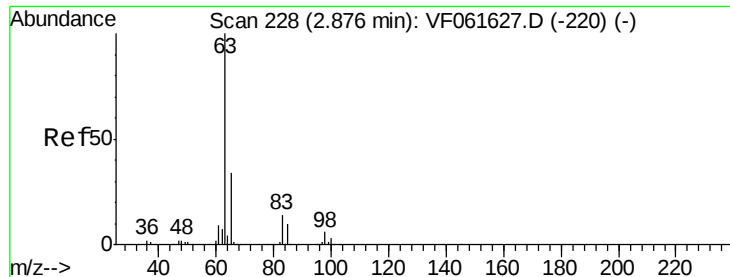
86 0.0 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 5.713 ug/l

RT: 2.82 min Scan# 222

Delta R.T. -0.06 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-5

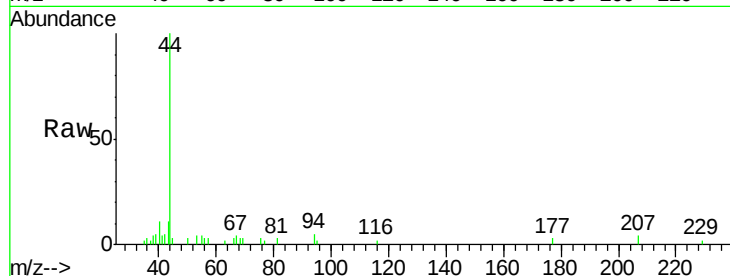
Tot Ion: 63 Resp: 61

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.3#

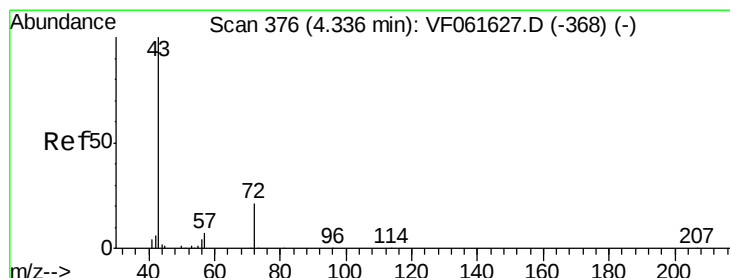
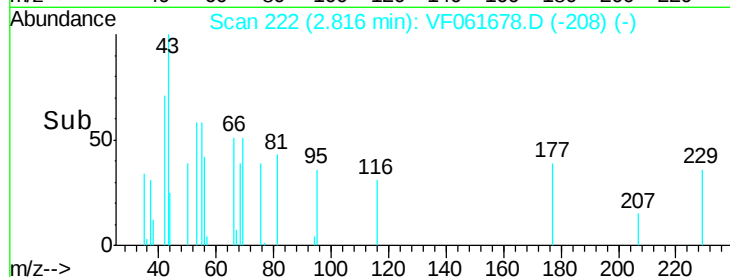
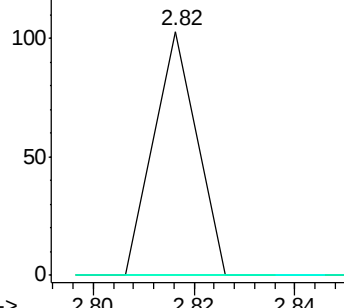
100 0.0 1.8 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 41.211 ug/l

RT: 4.33 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061678.D

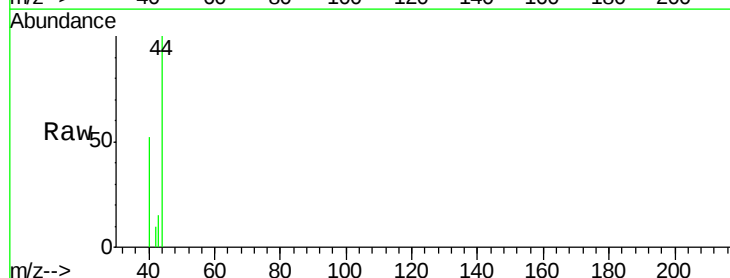
Acq: 18 Feb 2019 15:03

Tgt Ion: 43 Resp: 99

Ion Ratio Lower Upper

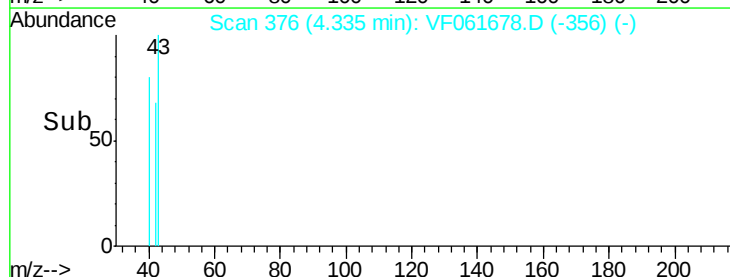
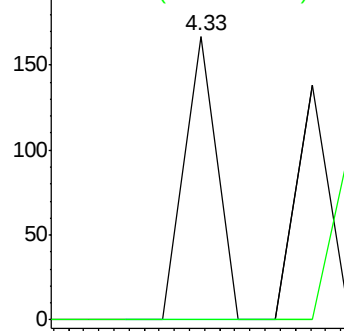
43 100

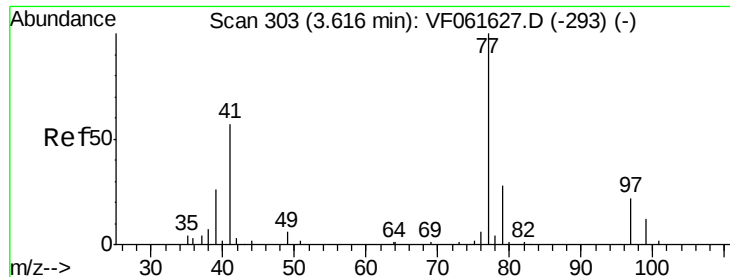
72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 17.026 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

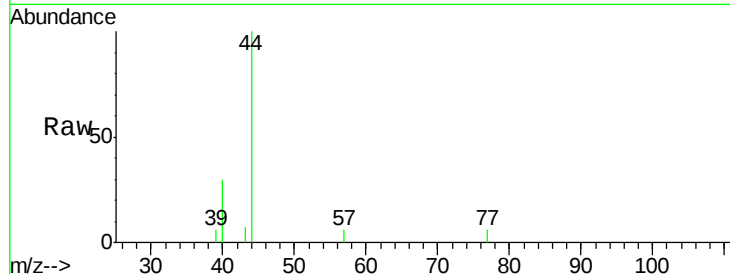
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 77 Resp: 77

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

150

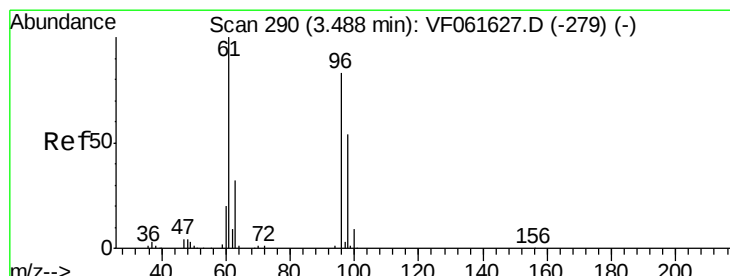
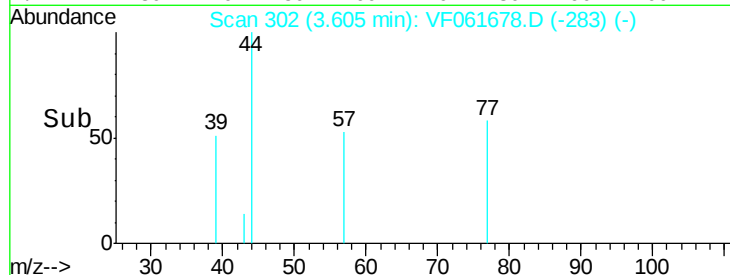
100

50

0

3.58 3.60 3.62

Time-->



#27

cis-1,2-Dichloroethene

Concen: 8.073 ug/l

RT: 3.54 min Scan# 295

Delta R.T. 0.05 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

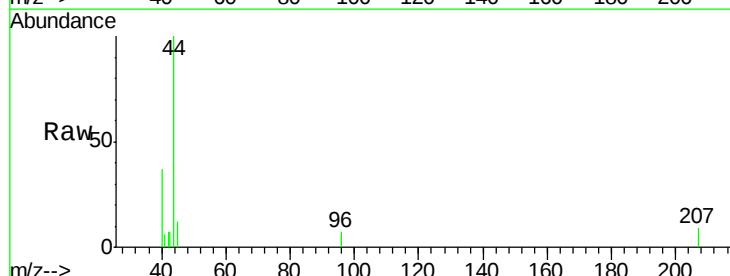
Tgt Ion: 96 Resp: 69

Ion Ratio Lower Upper

96 100

61 0.0 0.0 241.6

98 0.0 0.0 130.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

150

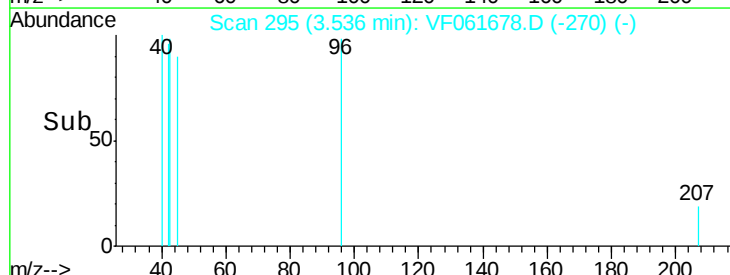
100

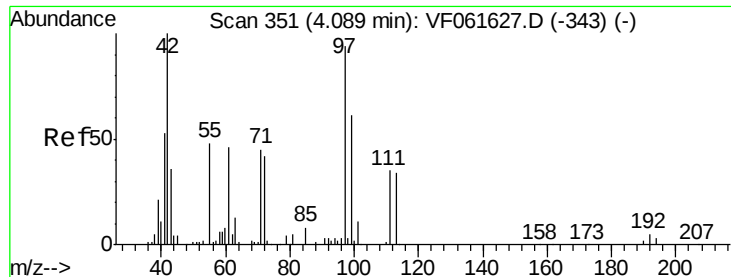
50

0

3.50 3.52 3.54 3.56

Time-->

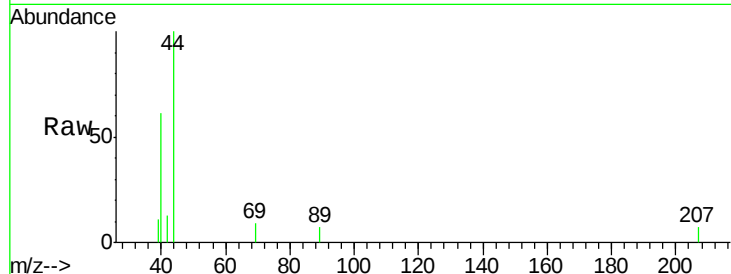




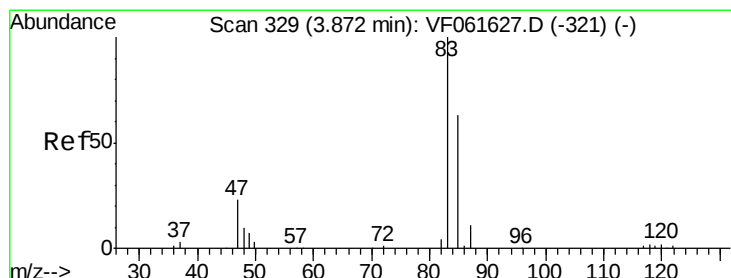
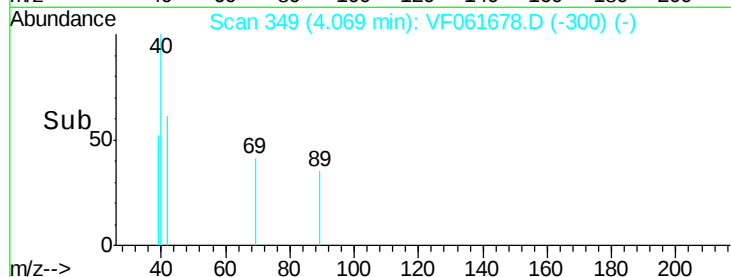
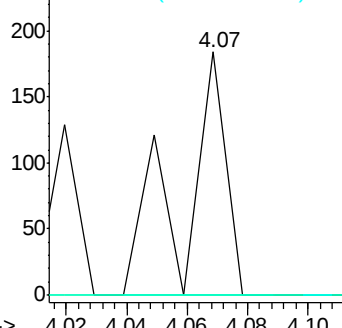
#29  
Tetrahydrofuran  
Concen: 164.858 ug/l  
RT: 4.07 min Scan# 349  
Delta R.T. -0.02 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Instrument :  
MSVOA\_F  
ClientSampleId :  
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 42 Resp: 180  
Ion Ratio Lower Upper  
42 100  
72 0.0 35.2 52.8#  
71 0.0 32.9 49.3#

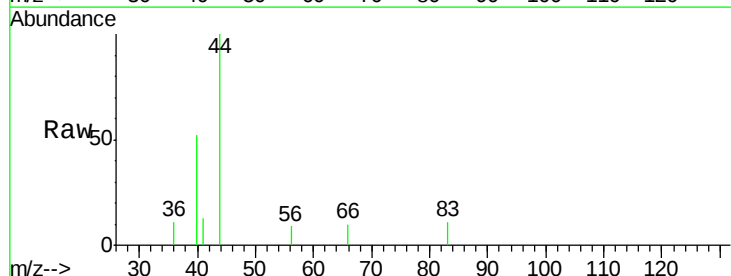


Abundance Ion 42.00 (41.70 to 42.70): VF0  
Ion 72.00 (71.70 to 72.70): VF0  
Ion 71.00 (70.70 to 71.70): VF0

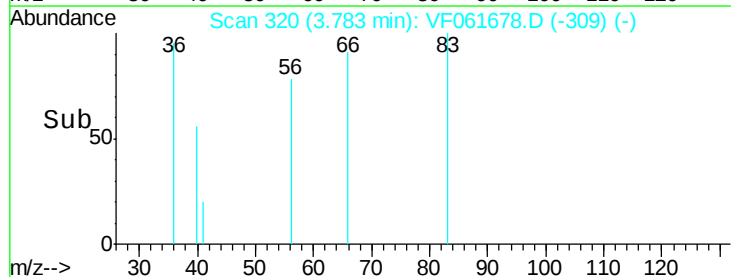
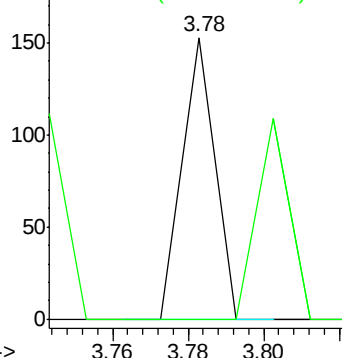


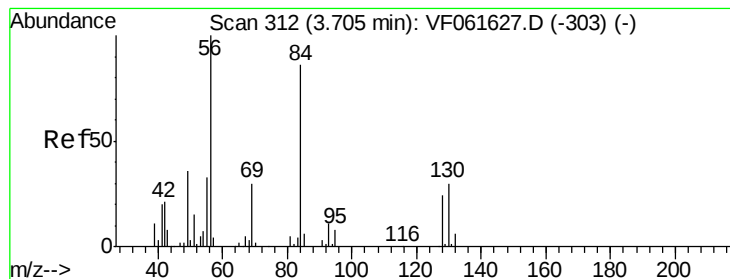
#30  
Chloroform  
Concen: 7.494 ug/l  
RT: 3.78 min Scan# 320  
Delta R.T. -0.09 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Tgt Ion: 83 Resp: 91  
Ion Ratio Lower Upper  
83 100  
85 0.0 51.1 76.7#



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0





#31

Cvclohexane

Concen: 7.181 ug/l

RT: 3.64 min Scan# 306

Delta R.T. -0.06 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-5

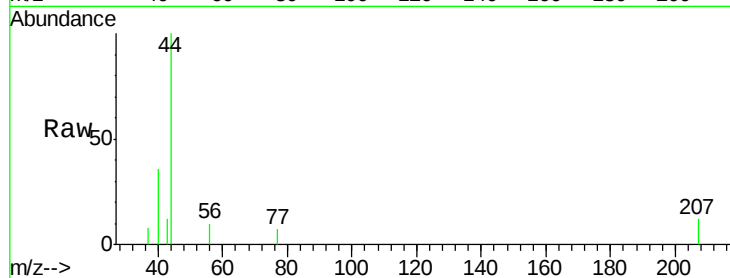
Tot Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

69 0.0 23.8 35.8#

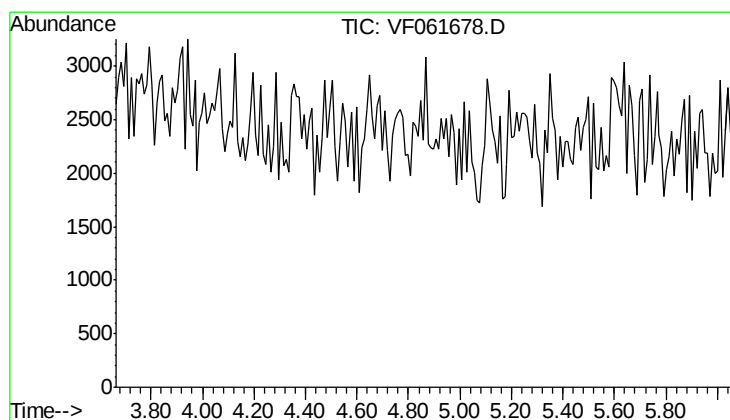
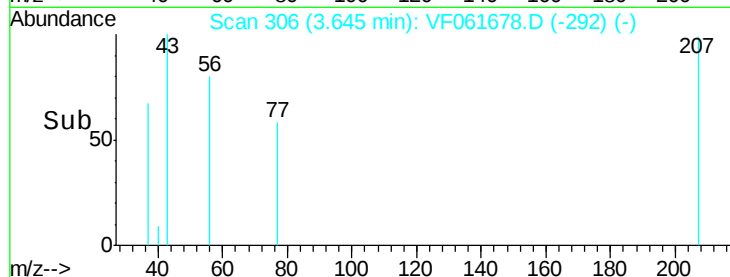
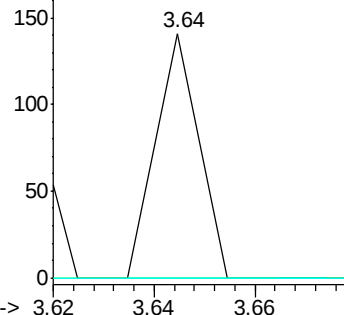
84 0.0 68.6 103.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.86 min

Lab File: VF061678.D

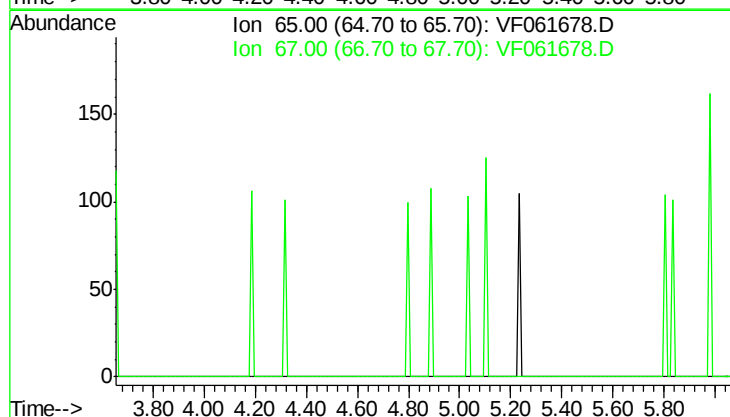
Acq: 18 Feb 2019 15:03

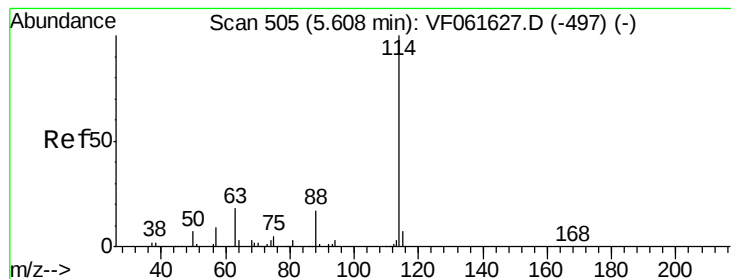
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-5

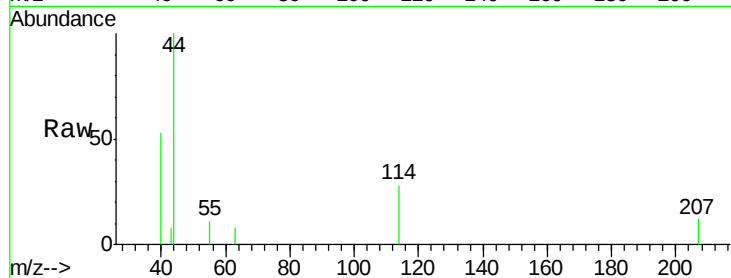
Tot Ion:114 Resp: 987

Ion Ratio Lower Upper

114 100

63 27.9 0.0 36.6

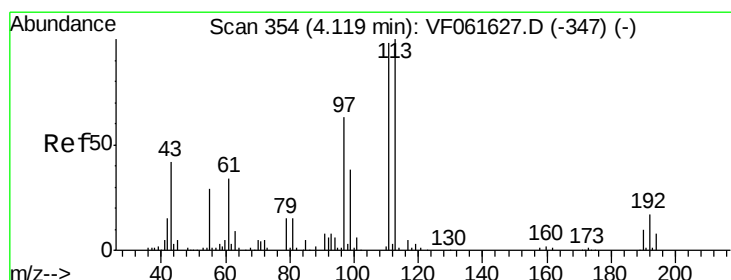
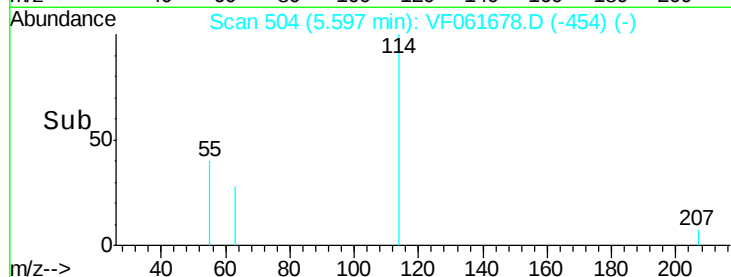
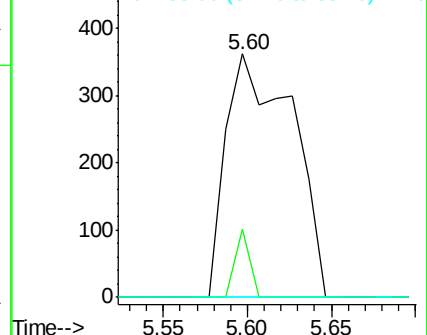
88 0.0 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 9.960 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

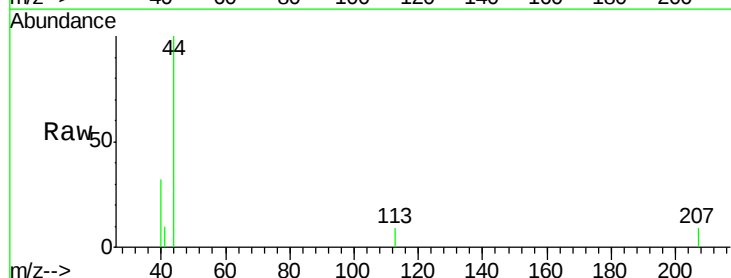
Tgt Ion:113 Resp: 73

Ion Ratio Lower Upper

113 100

111 0.0 78.8 118.2#

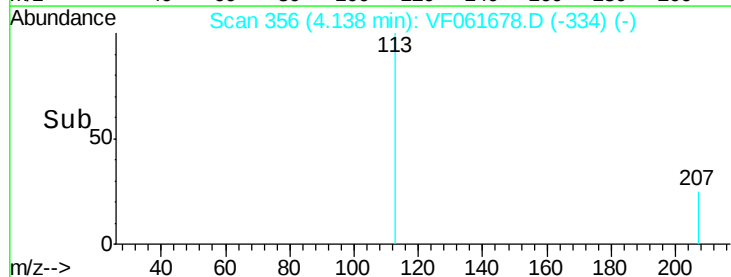
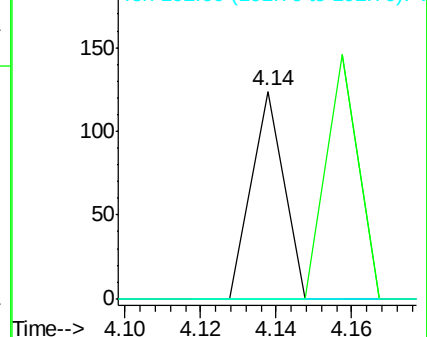
192 0.0 13.4 20.0#

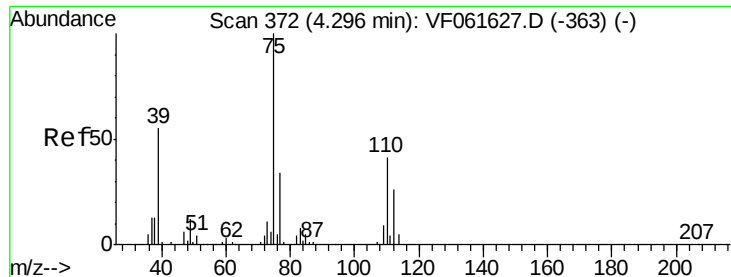


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 9.921 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.18 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-5

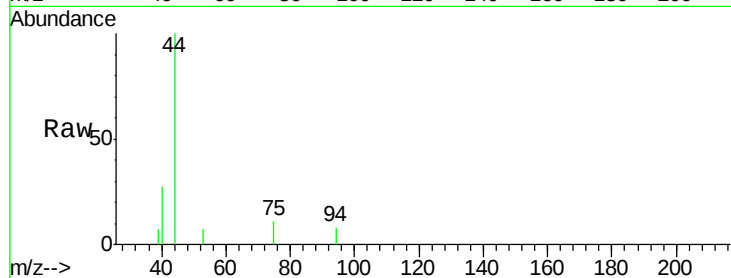
Tot Ion: 75 Resp: 97

Ion Ratio Lower Upper

75 100

110 0.0 20.5 61.6#

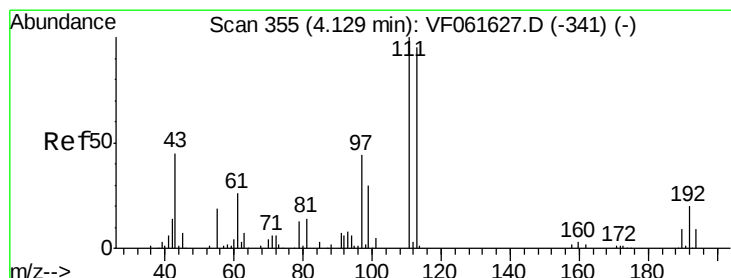
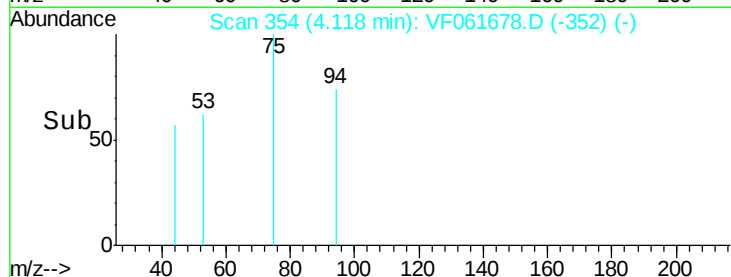
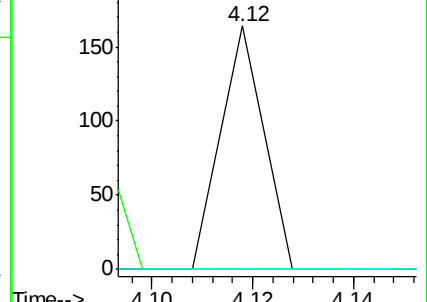
77 0.0 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 21.800 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.00 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

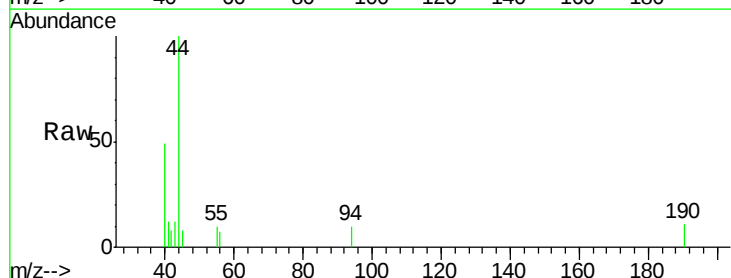
Tgt Ion: 43 Resp: 99

Ion Ratio Lower Upper

43 100

61 0.0 45.7 68.5#

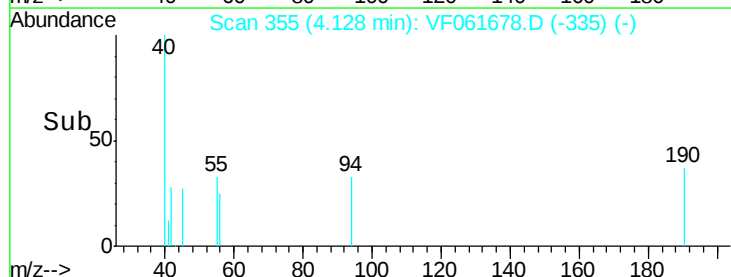
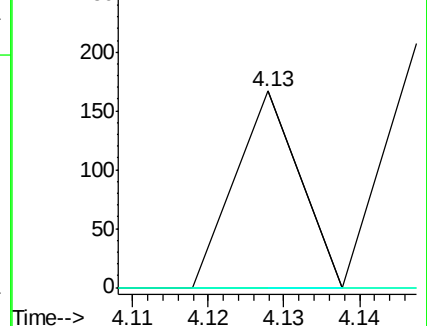
70 0.0 8.5 12.7#

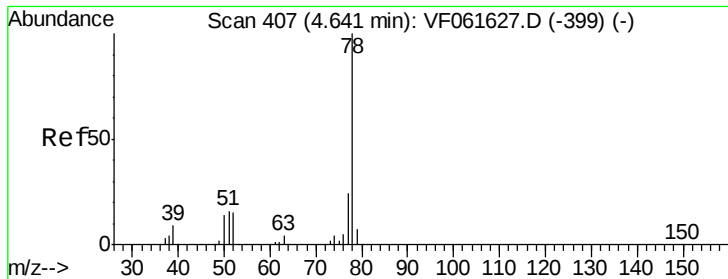


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#40

Benzene

Concen: 2.894 ug/l

RT: 4.74 min Scan# 417

Delta R.T. 0.10 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

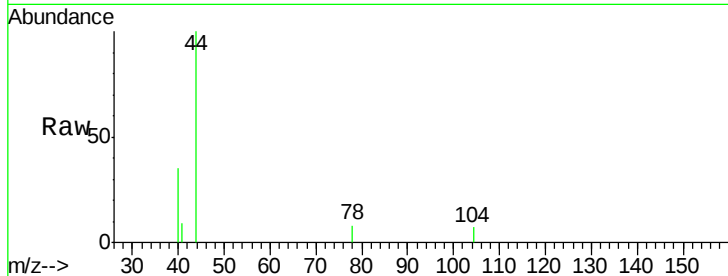
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 78 Resp: 74

Ion Ratio Lower Upper

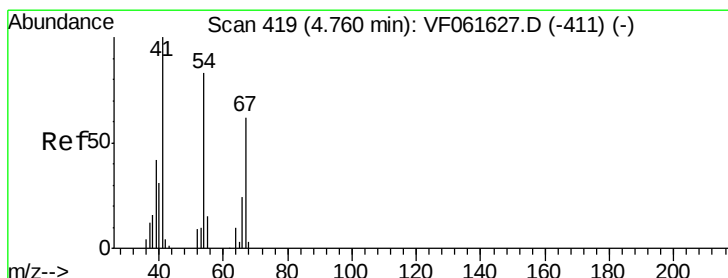
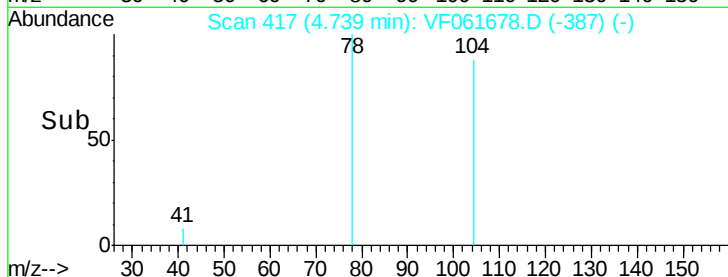
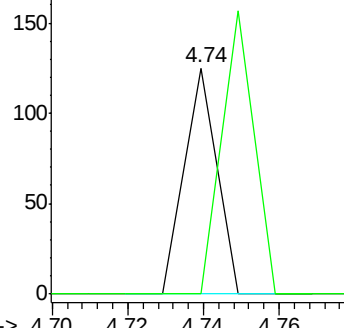
78 100

77 0.0 19.0 28.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: 99.033 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.01 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Tgt Ion: 41 Resp: 230

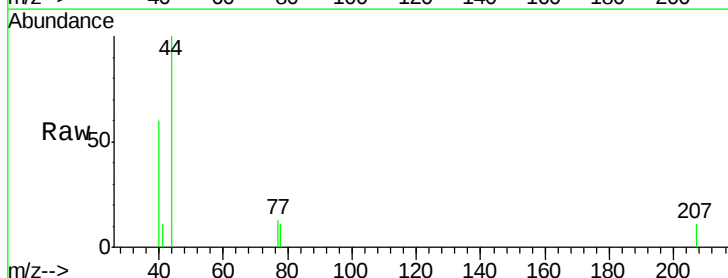
Ion Ratio Lower Upper

41 100

39 0.0 45.3 67.9#

67 0.0 49.3 73.9#

52 0.0 32.6 49.0#

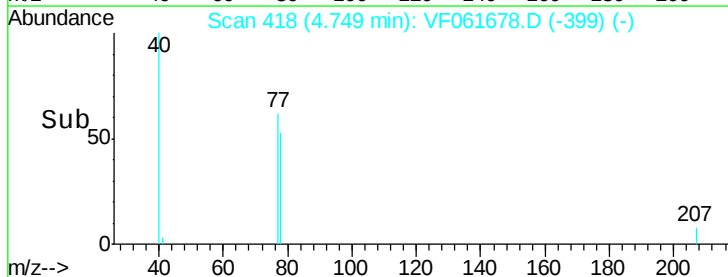
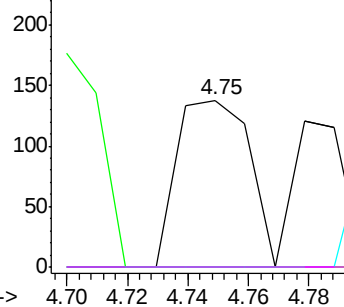


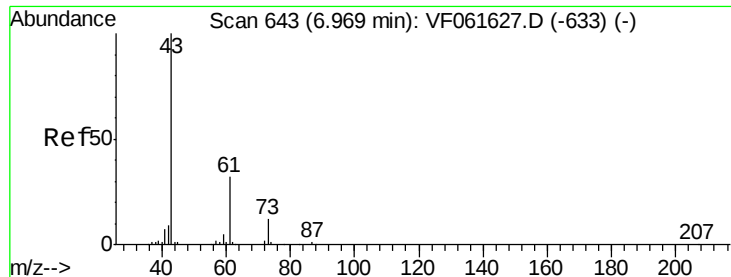
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



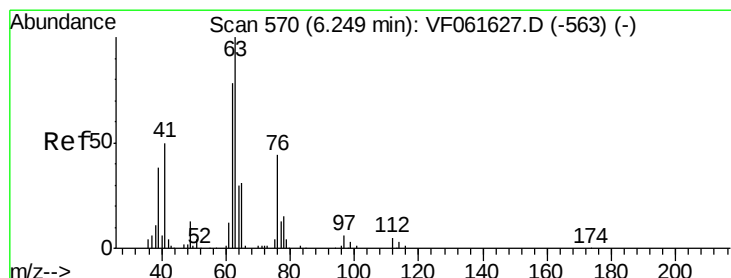
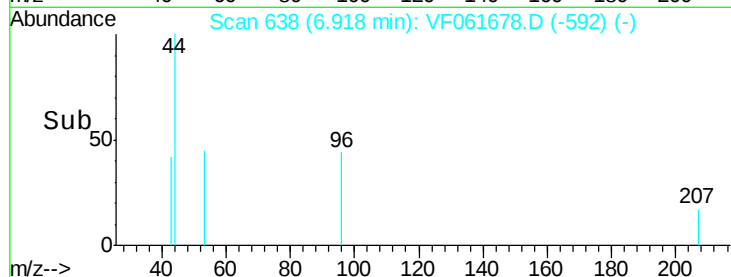
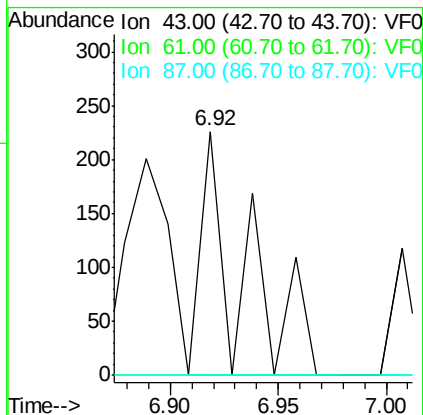
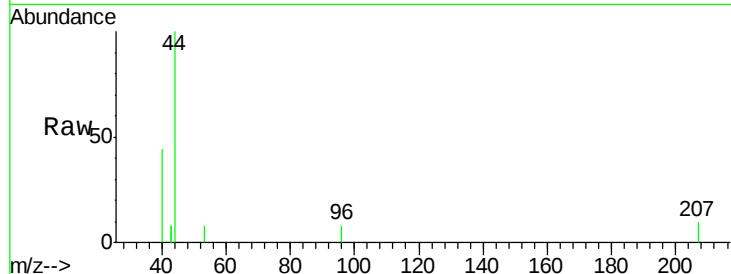


#43

Isopropyl Acetate  
 Concen: 55.622 ug/l  
 RT: 6.92 min Scan# 638  
 Delta R.T. -0.05 min  
 Lab File: VF061678.D  
 Acq: 18 Feb 2019 15:03

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CABLE-BRIDGE-FOUNDATION-D-5

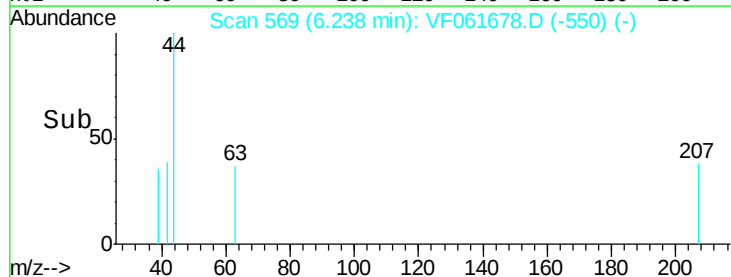
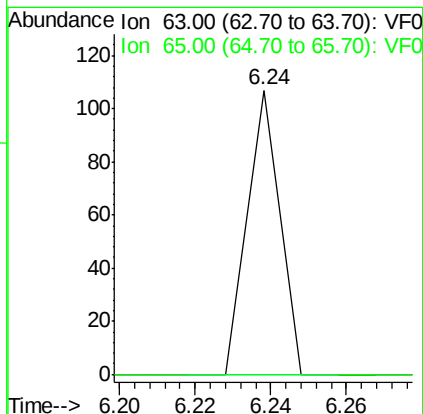
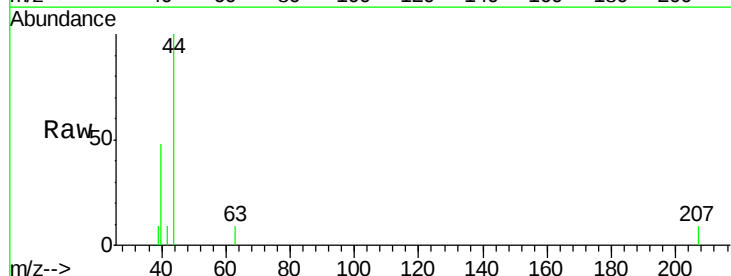
Tot Ion: 43 Resp: 299  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 25.8 38.6#  
 87 0.0 0.4 0.6#

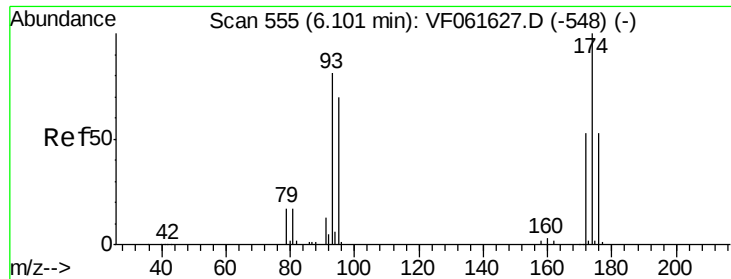


#45

1,2-Dichloropropane  
 Concen: 10.191 ug/l  
 RT: 6.24 min Scan# 569  
 Delta R.T. -0.01 min  
 Lab File: VF061678.D  
 Acq: 18 Feb 2019 15:03

Tgt Ion: 63 Resp: 63  
 Ion Ratio Lower Upper  
 63 100  
 65 0.0 24.9 37.3#

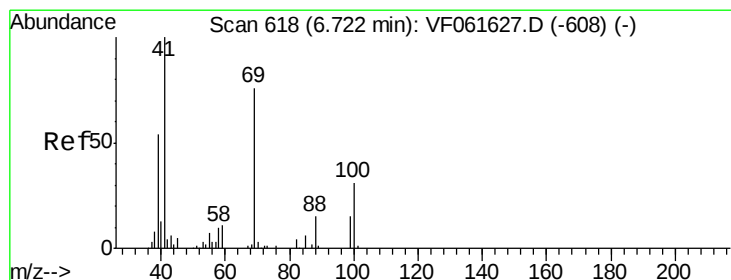
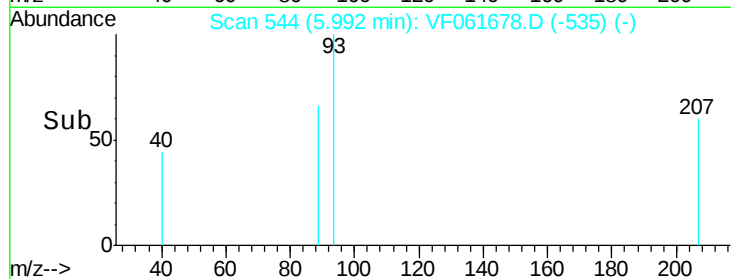
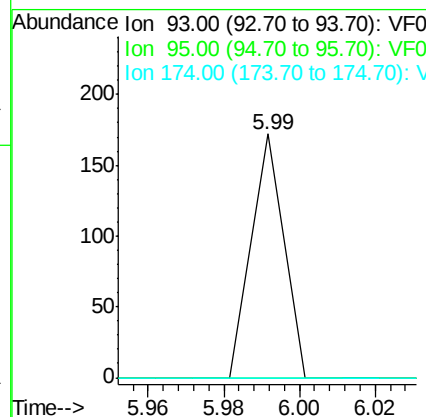
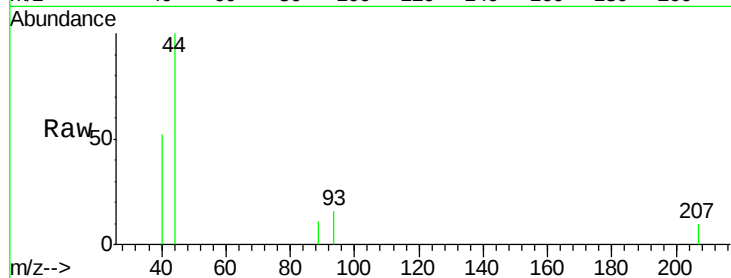




#46  
Dibromomethane  
Concen: 26.798 ug/l  
RT: 5.99 min Scan# 544  
Delta R.T. -0.11 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

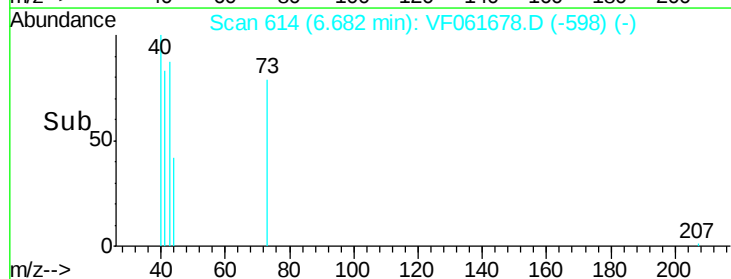
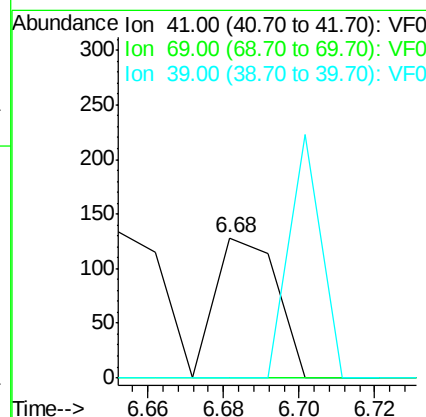
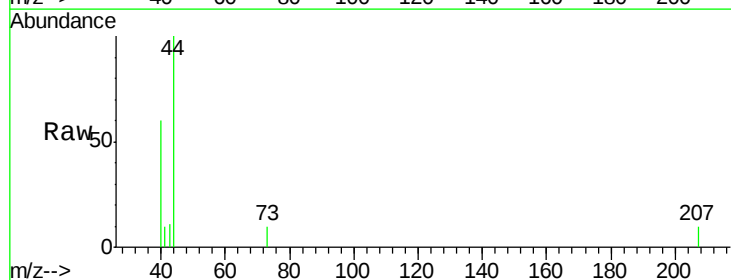
Instrument :  
MSVOA\_F  
ClientSampleId :  
CABLE-BRIDGE-FOUNDATION-D-5

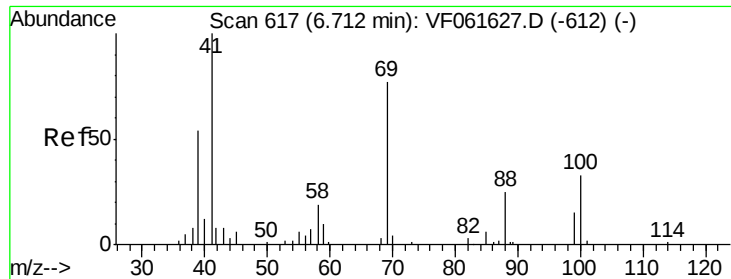
Tot Ion: 93 Resp: 102  
Ion Ratio Lower Upper  
93 100  
95 0.0 69.0 103.6#  
174 0.0 99.3 148.9#



#48  
Methyl methacrylate  
Concen: 44.204 ug/l  
RT: 6.68 min Scan# 614  
Delta R.T. -0.04 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Tgt Ion: 41 Resp: 143  
Ion Ratio Lower Upper  
41 100  
69 0.0 60.4 90.6#  
39 0.0 43.7 65.5#

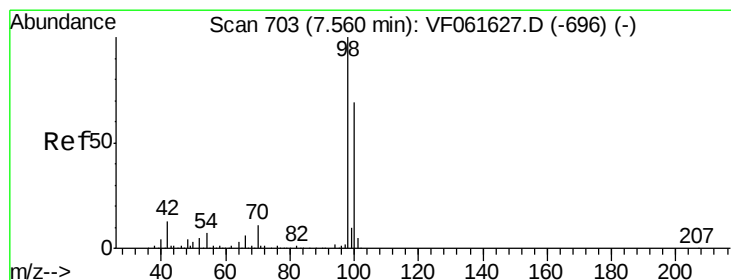
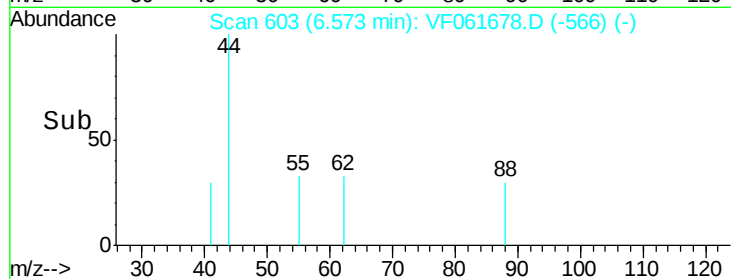
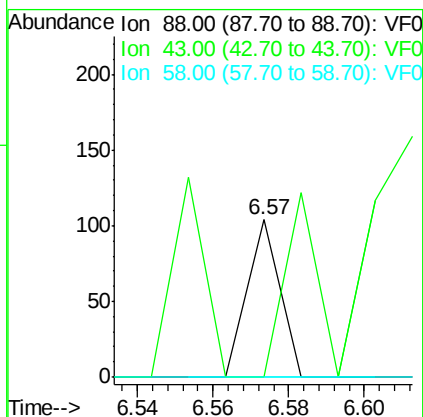
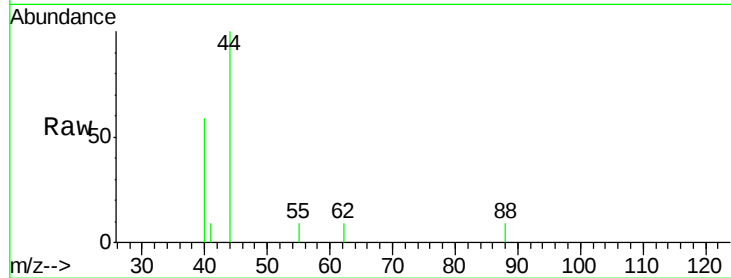




#49  
1,4-Dioxane  
Concen: 2038.784 ug/l  
RT: 6.57 min Scan# 603  
Delta R.T. -0.14 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

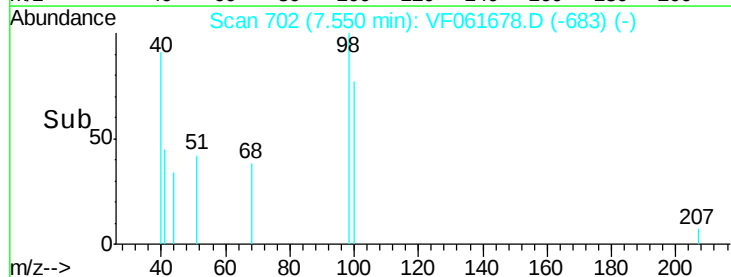
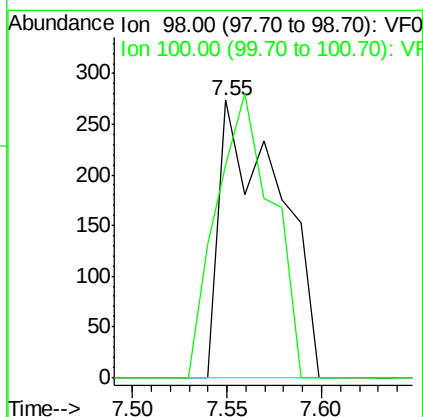
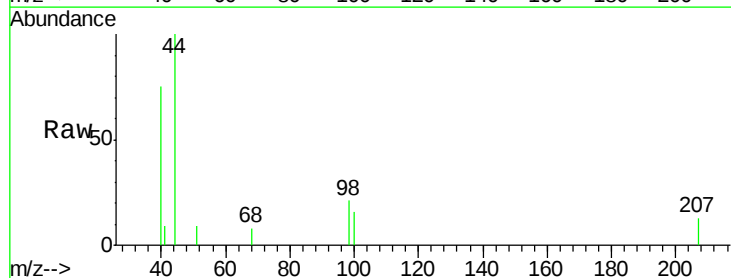
Instrument :  
MSVOA\_F  
ClientSampleId :  
CABLE-BRIDGE-FOUNDATION-D-5

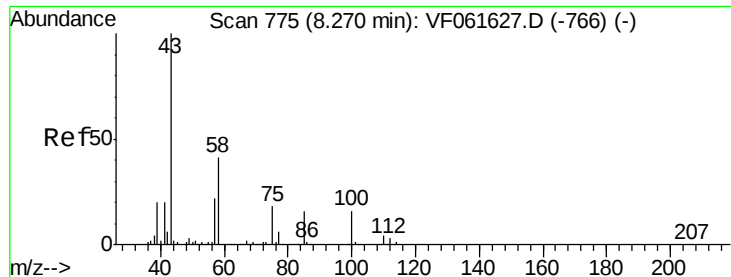
Tot Ion: 88 Resp: 62  
Ion Ratio Lower Upper  
88 100  
43 0.0 32.3 48.5#  
58 0.0 59.4 89.2#



#50  
Toluene-d8  
Concen: 28.571 ug/l  
RT: 7.55 min Scan# 702  
Delta R.T. -0.01 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Tgt Ion: 98 Resp: 602  
Ion Ratio Lower Upper  
98 100  
100 76.6 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 15.361 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

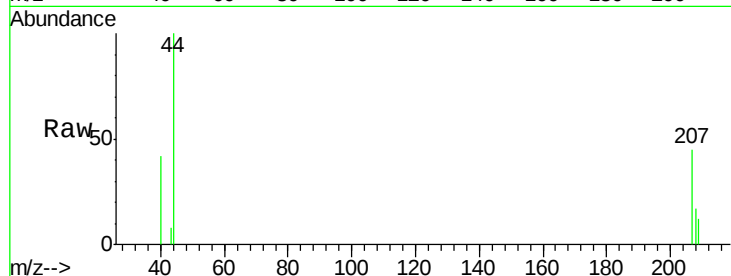
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 43 Resp: 59

Ion Ratio Lower Upper

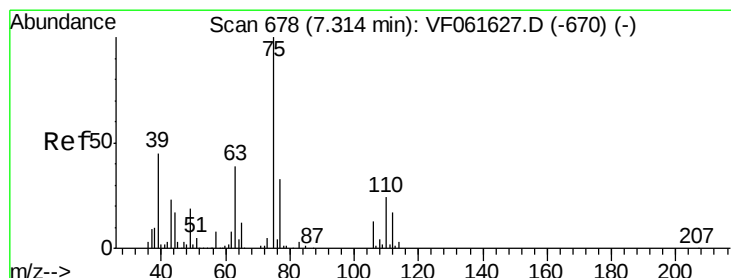
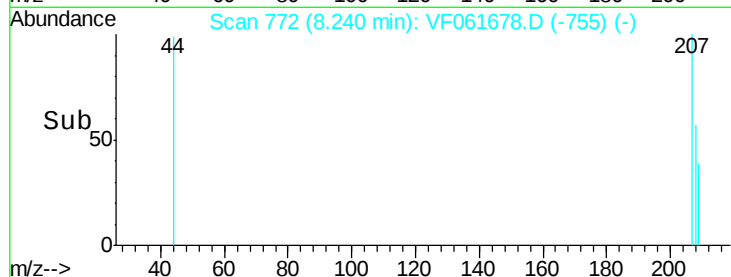
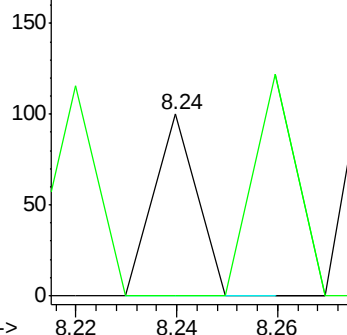
43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 7.576 ug/l

RT: 7.43 min Scan# 690

Delta R.T. 0.12 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

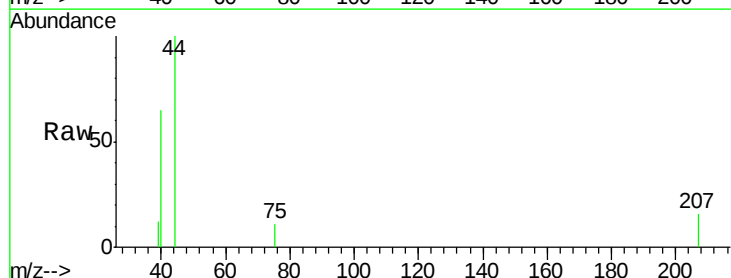
Tgt Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

77 0.0 26.4 39.6#

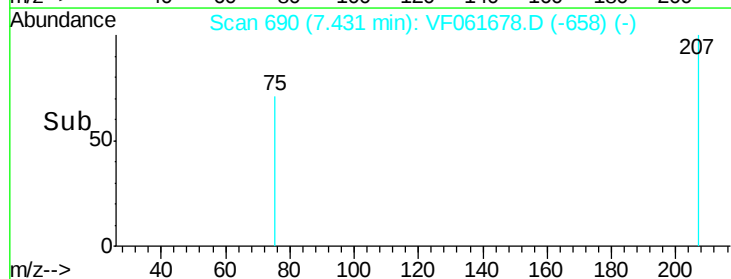
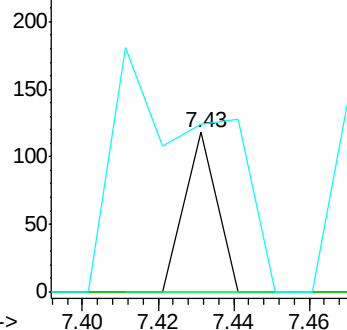
39 105.1 36.0 54.0#

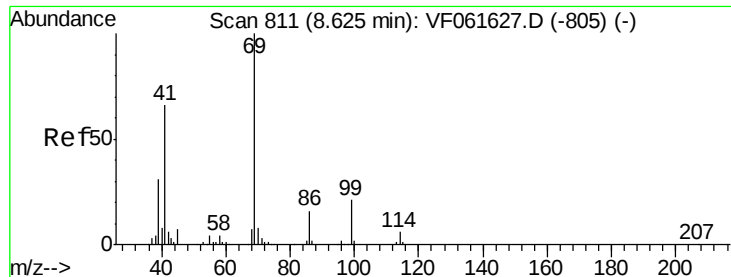


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#56

Ethyl methacrylate

Concen: 11.826 ug/l

RT: 8.46 min Scan# 794

Delta R.T. -0.17 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-5

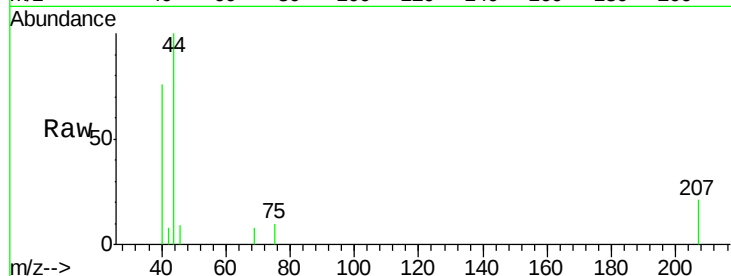
Tot Ion: 69 Resp: 60

Ion Ratio Lower Upper

69 100

41 0.0 52.9 79.3#

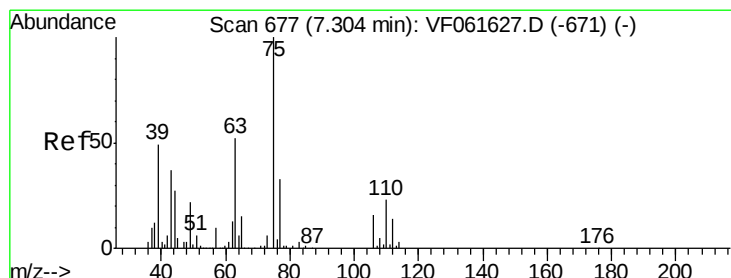
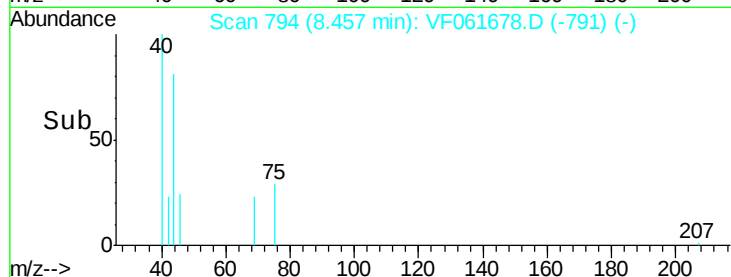
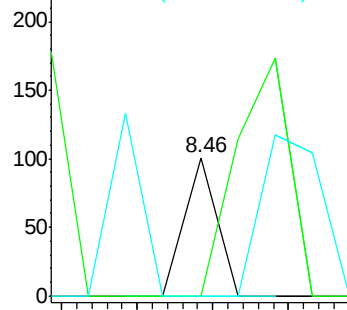
39 0.0 24.5 36.7#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 68.540 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061678.D

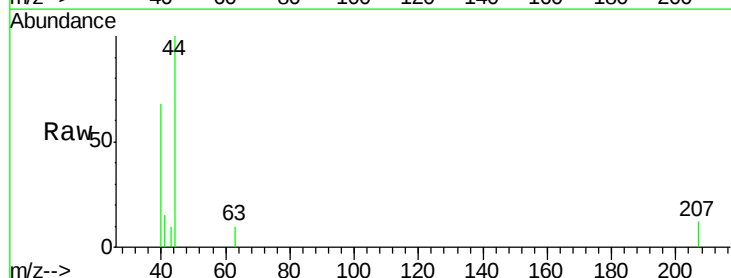
Acq: 18 Feb 2019 15:03

Tgt Ion: 63 Resp: 60

Ion Ratio Lower Upper

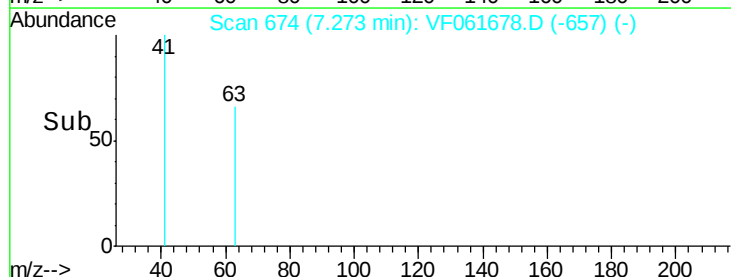
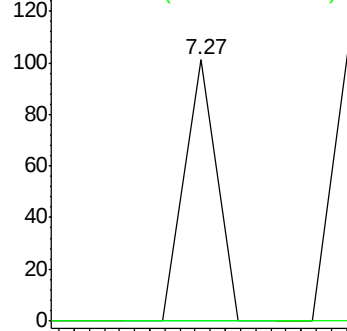
63 100

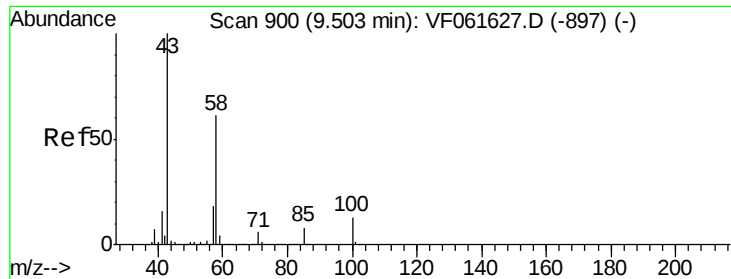
106 0.0 24.6 36.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 38.998 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.00 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

Instrument :

MSVOA\_F

ClientSampleId :

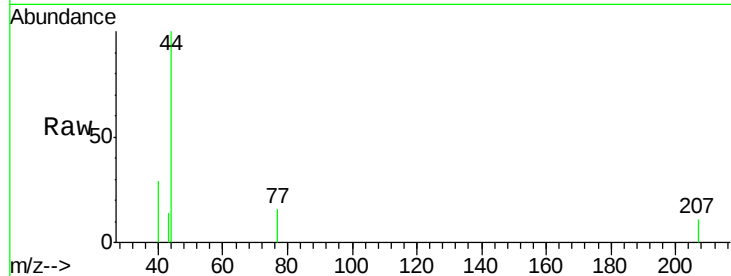
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

58 0.0 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.50

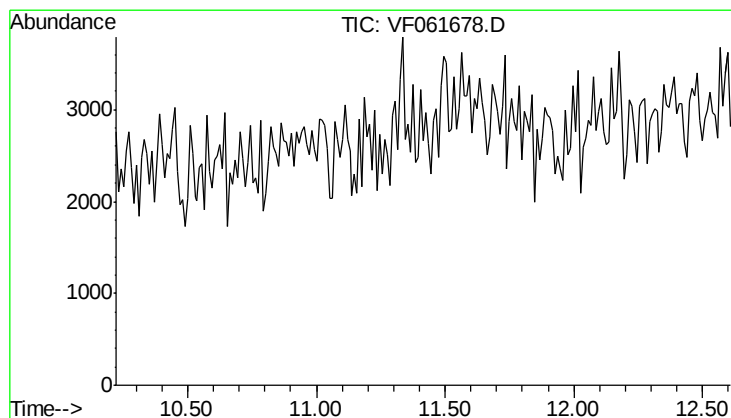
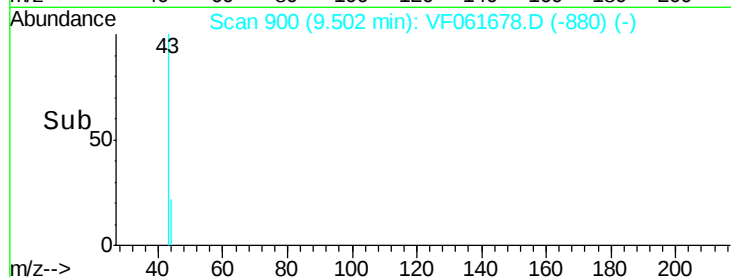
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 11.42 min

Lab File: VF061678.D

Acq: 18 Feb 2019 15:03

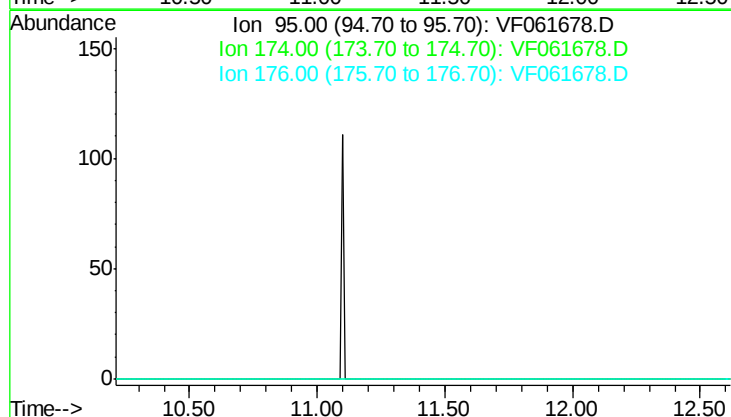
Tgt Ion: 95

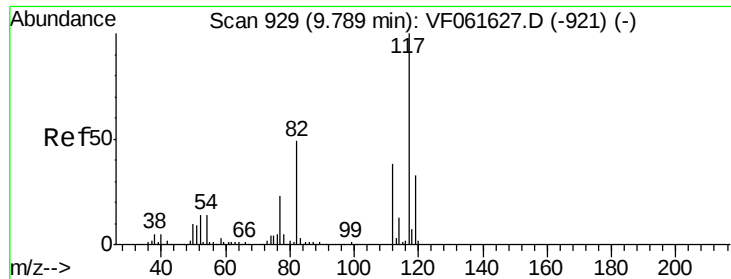
Sig Exp Ratio

95 100

174 82.9

176 83.5

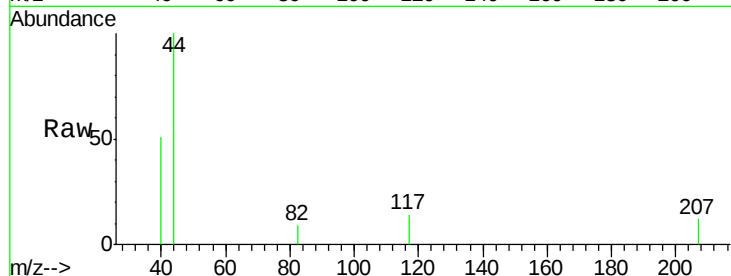




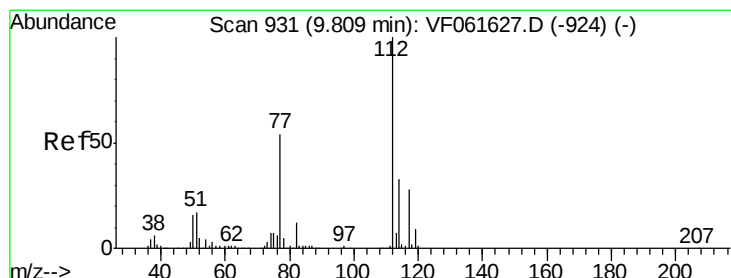
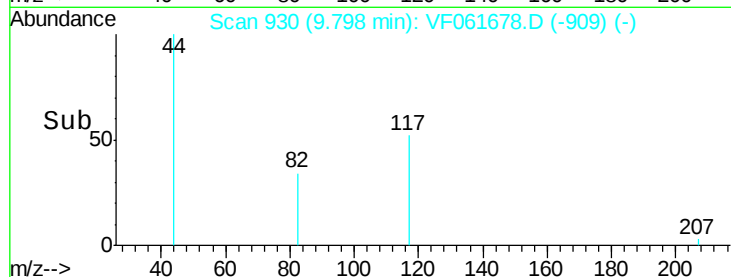
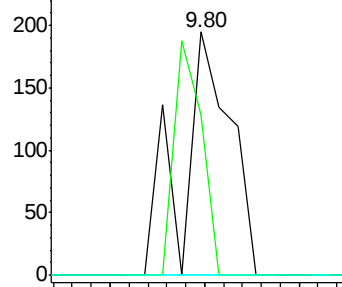
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.80 min Scan# 930  
Delta R.T. 0.01 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Instrument :  
MSVOA\_F  
ClientSampleId :  
CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion:117 Resp: 347  
Ion Ratio Lower Upper  
117 100  
82 65.6 39.3 58.9#  
119 0.0 26.6 40.0#

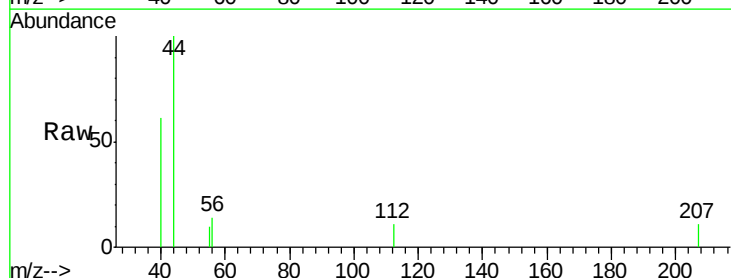


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

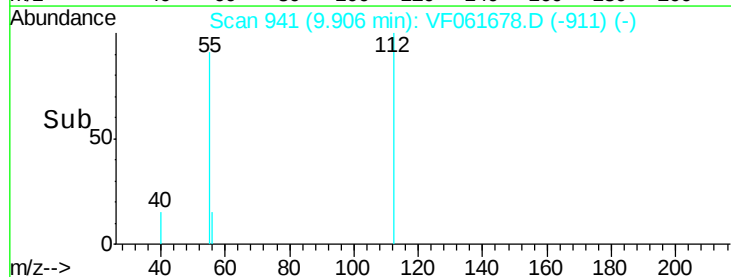
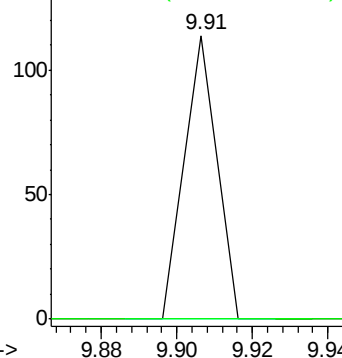


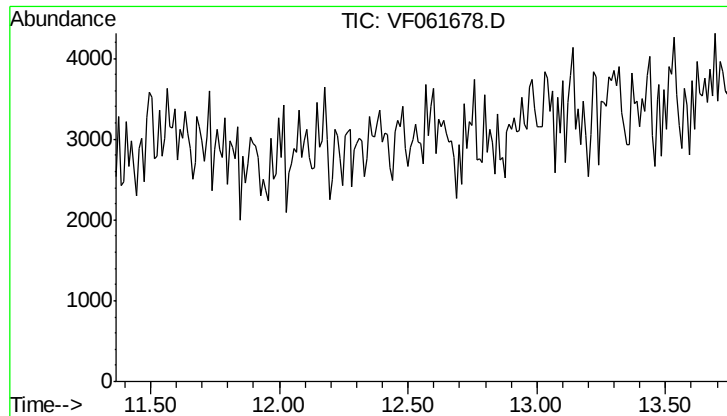
#65  
Chlorobenzene  
Concen: 9.515 ug/l  
RT: 9.91 min Scan# 941  
Delta R.T. 0.10 min  
Lab File: VF061678.D  
Acq: 18 Feb 2019 15:03

Tgt Ion:112 Resp: 67  
Ion Ratio Lower Upper  
112 100  
114 0.0 26.2 39.2#



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 0.000 ug/l  
 Expected RT: 12.56 min  
 Lab File: VF061678.D  
 Acq: 18 Feb 2019 15:03

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CABLE-BRIDGE-FOUNDATION-D-5

Tot Ion: 152  
 Sig Exp Ratio  
 152 100  
 115 48.5  
 150 156.0

