

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
 Data File : VF061151.D  
 Acq On : 22 Dec 2018 18:23  
 Operator : VA/AP  
 Sample : J6191-03RE  
 Misc : 7.45g/5mL/MSVOA-F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-07-122018-BRE

Quant Time: Dec 24 02:58:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 00:56:59 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.90  | 168  | 4869     | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 5.61  | 114  | 4761     | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 9.80  | 117  | 3405     | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.57 | 152  | 459      | 50.00 | ug/l  | 0.02     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 4.87   | 65  | 686      | 10.95 | ug/l   | 0.03 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 21.90% |      |
| 35) Dibromofluoromethane  | 4.14   | 113 | 1007     | 26.40 | ug/l   | 0.03 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 52.80% |      |
| 50) Toluene-d8            | 7.57   | 98  | 4818     | 44.58 | ug/l   | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.16% |      |
| 62) 4-Bromofluorobenzene  | 11.42  | 95  | 1047     | 21.01 | ug/l   | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 42.02% |      |

## Target Compounds

|                               |       |     |     |           |        | Qvalue |
|-------------------------------|-------|-----|-----|-----------|--------|--------|
| 3) Chloromethane              | 1.09  | 50  | 189 | 3.048     | ug/l # | 42     |
| 5) Bromomethane               | 1.33  | 94  | 735 | 18.425    | ug/l # | 3      |
| 6) Chloroethane               | 1.38  | 64  | 82  | 3.094     | ug/l # | 14     |
| 8) Diethyl Ether              | 1.74  | 74  | 83  | 5.519     | ug/l   | 50     |
| 12) 1,1-Dichloroethene        | 1.80  | 96  | 63  | 1.468     | ug/l # | 1      |
| 13) Acrolein                  | 1.97  | 56  | 291 | 159.357   | ug/l   | 95     |
| 14) Allyl chloride            | 2.07  | 41  | 317 | 7.097     | ug/l # | 72     |
| 15) Acrylonitrile             | 2.97  | 53  | 315 | 53.904    | ug/l # | 20     |
| 16) Acetone                   | 2.23  | 43  | 563 | 44.971    | ug/l # | 66     |
| 18) Methyl Acetate            | 2.35  | 43  | 418 | 16.138    | ug/l # | 66     |
| 19) Methyl tert-butyl Ether   | 2.39  | 73  | 173 | 1.816     | ug/l # | 1      |
| 20) Methylene Chloride        | 2.18  | 84  | 65  | Below Cal | #      | 1      |
| 21) trans-1,2-Dichloroethene  | 2.30  | 96  | 67  | 1.460     | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.83  | 45  | 286 | 1.922     | ug/l # | 1      |
| 23) Vinyl Acetate             | 3.25  | 43  | 220 | 3.205     | ug/l # | 78     |
| 25) 2-Butanone                | 4.35  | 43  | 160 | 7.880     | ug/l # | 57     |
| 26) 2,2-Dichloropropane       | 3.58  | 77  | 66  | 1.305     | ug/l # | 62     |
| 29) Tetrahydrofuran           | 4.09  | 42  | 71  | 8.592     | ug/l # | 37     |
| 37) Ethyl Acetate             | 4.12  | 43  | 508 | 20.534    | ug/l # | 21     |
| 41) Methacrylonitrile         | 4.79  | 41  | 347 | 28.591    | ug/l # | 27     |
| 43) Isopropyl Acetate         | 7.01  | 43  | 277 | 9.982     | ug/l # | 45     |
| 45) 1,2-Dichloropropane       | 6.14  | 63  | 131 | 3.896     | ug/l # | 44     |
| 47) Bromodichloromethane      | 6.52  | 83  | 64  | 1.129     | ug/l # | 24     |
| 48) Methyl methacrylate       | 6.75  | 41  | 141 | 7.279     | ug/l # | 26     |
| 51) 4-Methyl-2-Pentanone      | 8.30  | 43  | 234 | 12.296    | ug/l # | 38     |
| 52) Toluene                   | 7.66  | 92  | 223 | 2.726     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene     | 8.39  | 75  | 60  | 1.313     | ug/l # | 42     |
| 54) cis-1,3-Dichloropropene   | 7.45  | 75  | 65  | 1.133     | ug/l # | 27     |
| 58) 2-Chloroethyl Vinyl ether | 7.44  | 63  | 68  | 13.342    | ug/l # | 50     |
| 59) 2-Hexanone                | 9.53  | 43  | 127 | 9.228     | ug/l # | 27     |
| 60) Dibromochloromethane      | 8.87  | 129 | 65  | 1.849     | ug/l # | 13     |
| 69) o-Xylene                  | 10.55 | 106 | 72  | 1.439     | ug/l # | 1      |
| 74) N-amyl acetate            | 11.36 | 43  | 185 | 21.066    | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane    | 11.63 | 75  | 69  | 14.124    | ug/l # | 39     |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

Quant Time: Dec 24 02:58:15 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 00:56:59 2018  
Response via : Initial Calibration

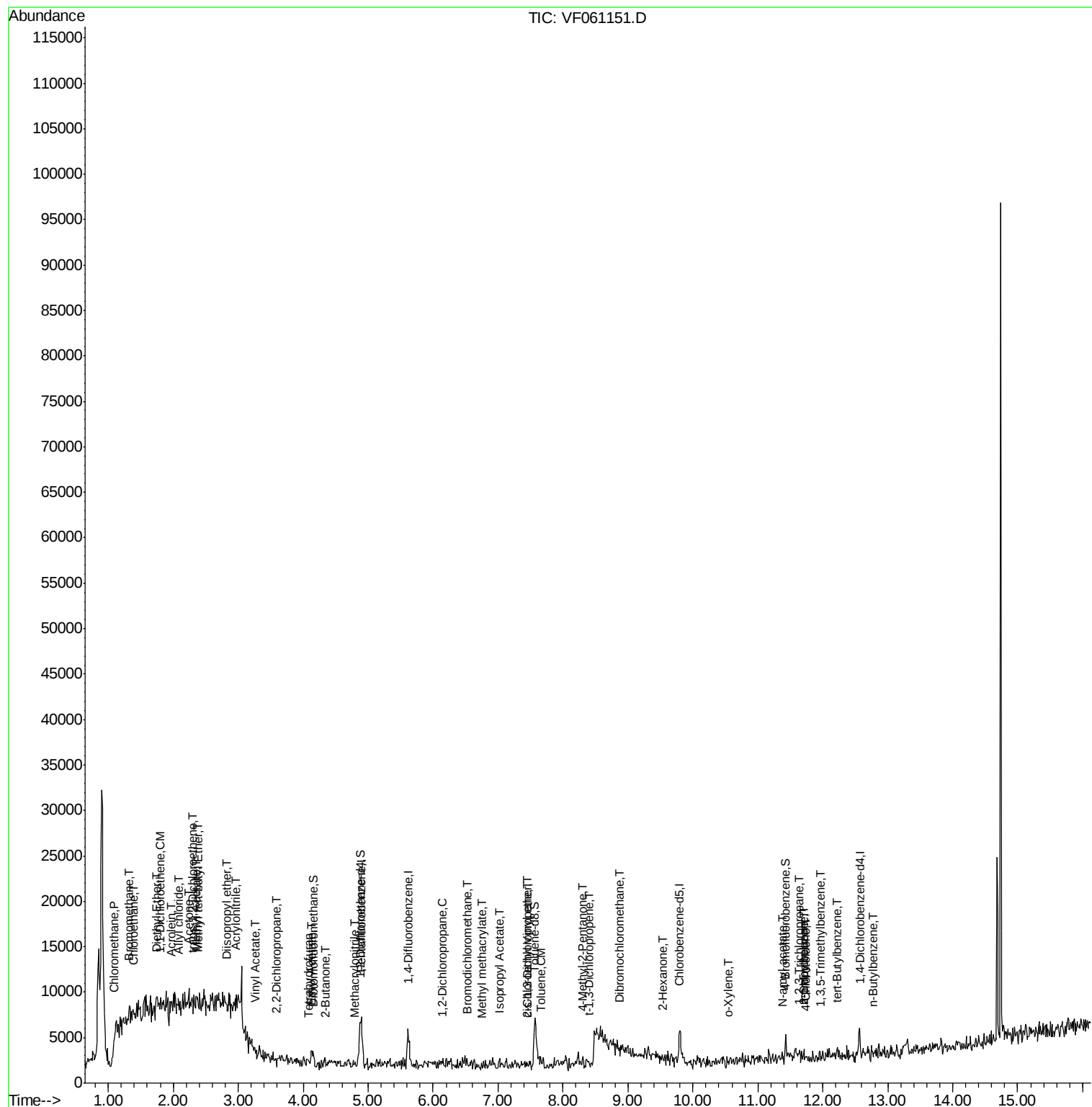
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 78) n-propylbenzene        | 11.72 | 91   | 65       | 1.046 | ug/l # | 55       |
| 79) 2-Chlorotoluene        | 11.72 | 91   | 65       | 2.395 | ug/l # | 42       |
| 80) 1,3,5-Trimethylbenzene | 11.96 | 105  | 67       | 2.057 | ug/l # | 27       |
| 82) 4-Chlorotoluene        | 11.75 | 91   | 63       | 2.244 | ug/l # | 43       |
| 83) tert-Butylbenzene      | 12.22 | 119  | 80       | 2.387 | ug/l # | 29       |
| 89) n-Butylbenzene         | 12.77 | 91   | 95       | 2.403 | ug/l # | 26       |

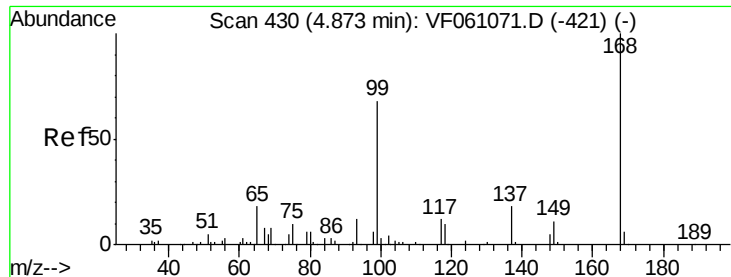
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.03 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

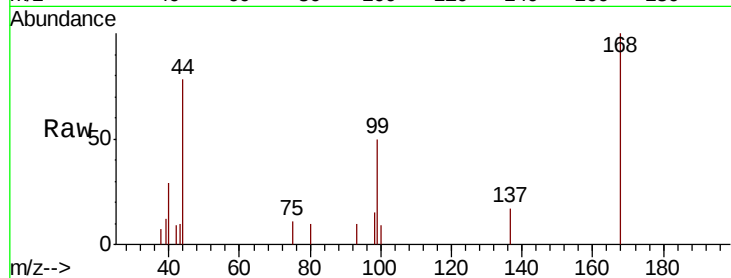
NB-07-122018-BRE

Tgt Ion:168 Resp: 4869

Ion Ratio Lower Upper

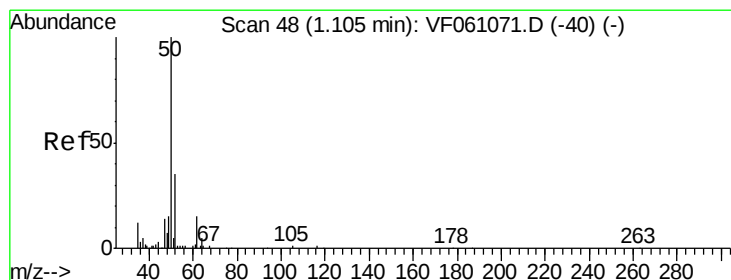
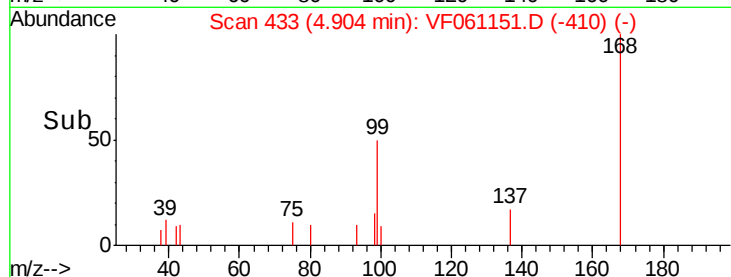
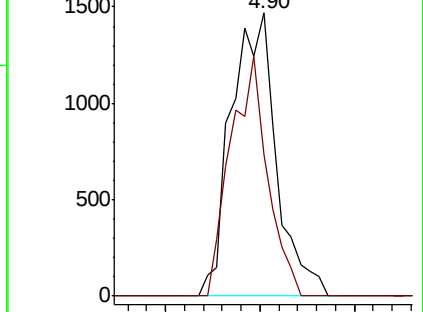
168 100

99 49.9 54.4 81.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 3.048 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF061151.D

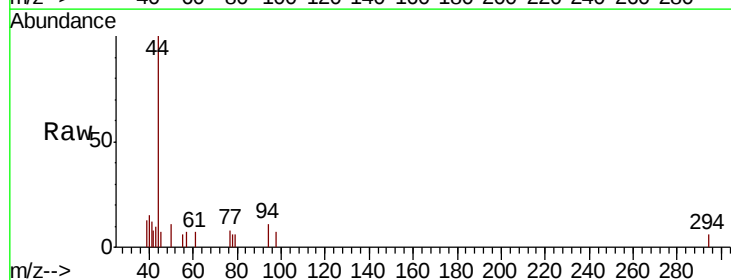
Acq: 22 Dec 2018 18:23

Tgt Ion: 50 Resp: 189

Ion Ratio Lower Upper

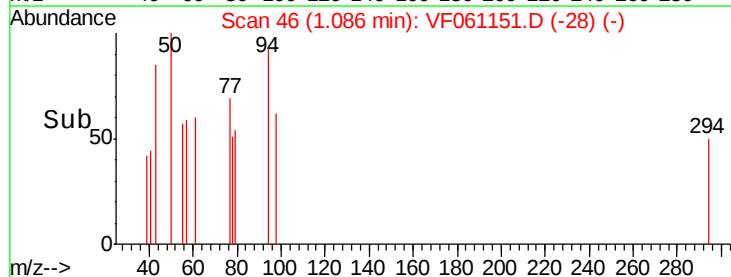
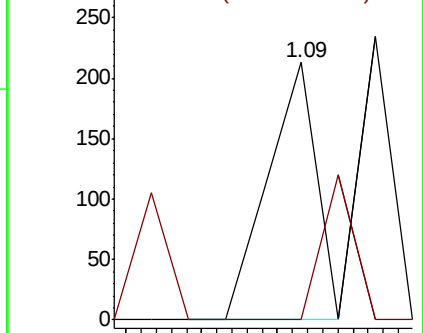
50 100

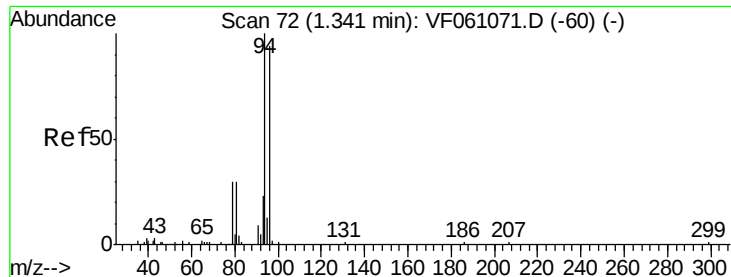
52 0.0 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 18.425 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

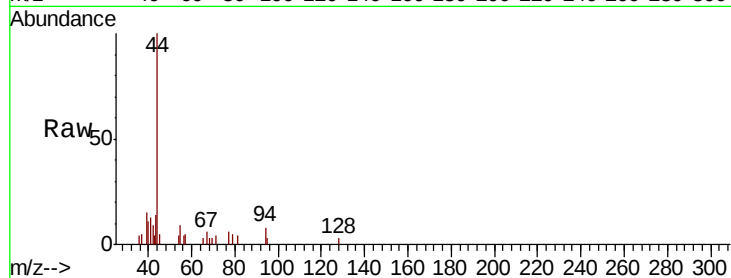
NB-07-122018-BRE

Tgt Ion: 94 Resp: 735

Ion Ratio Lower Upper

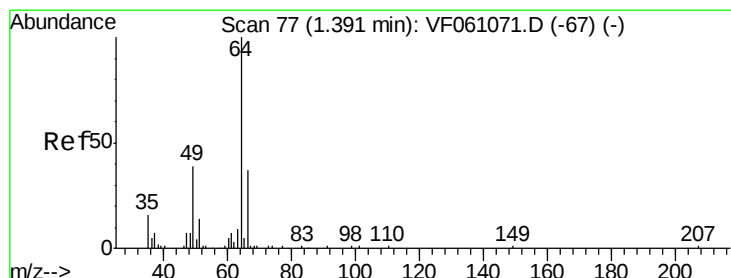
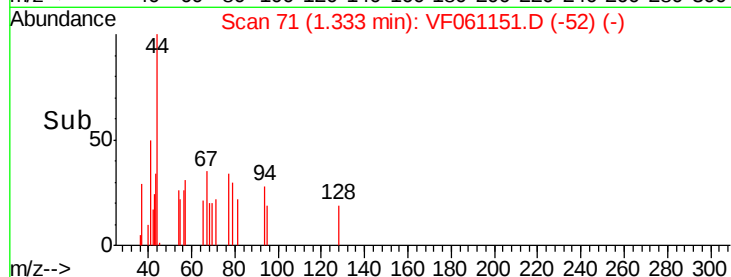
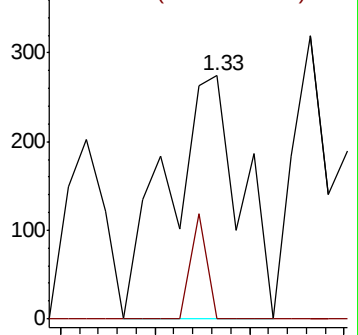
94 100

96 0.0 74.4 111.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 3.094 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061151.D

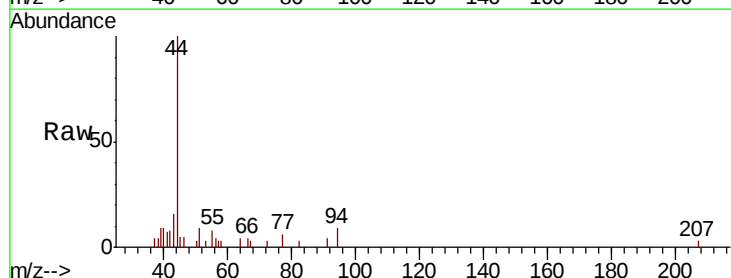
Acq: 22 Dec 2018 18:23

Tgt Ion: 64 Resp: 82

Ion Ratio Lower Upper

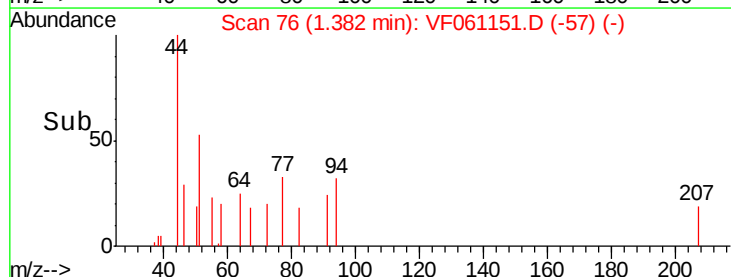
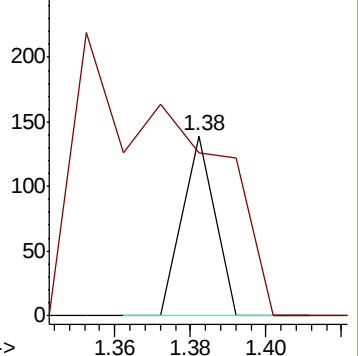
64 100

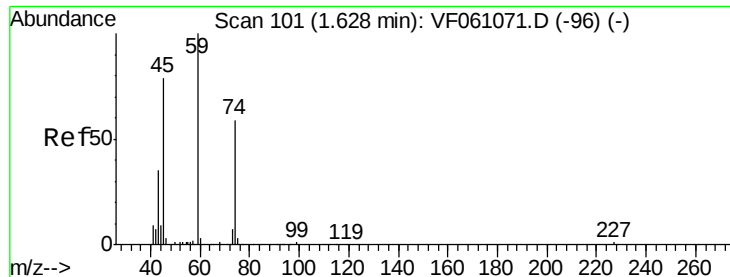
66 90.6 30.9 46.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#8

Diethyl Ether

Concen: 5.519 ug/l

RT: 1.74 min Scan# 112

Delta R.T. 0.11 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

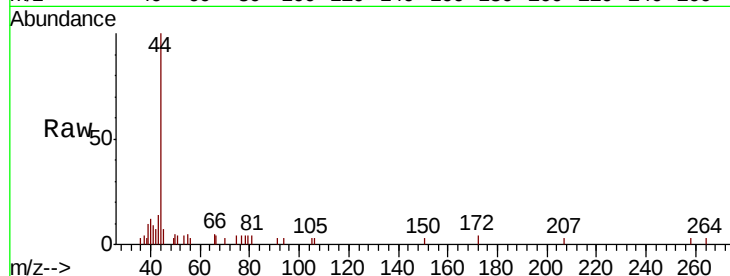
NB-07-122018-BRE

Tgt Ion: 74 Resp: 83

Ion Ratio Lower Upper

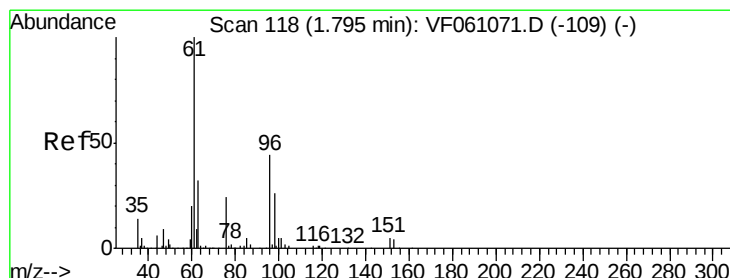
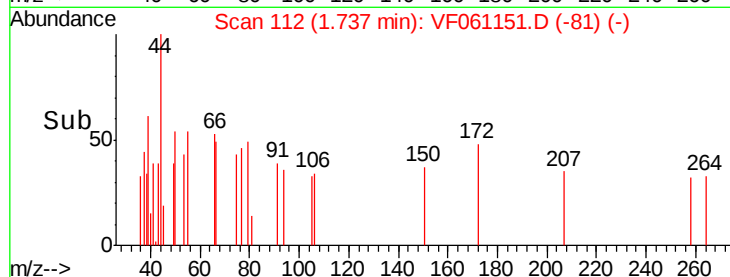
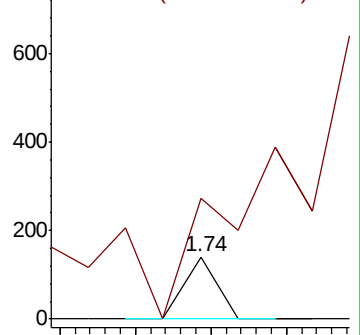
74 100

45 195.7 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#12

1,1-Dichloroethene

Concen: 1.468 ug/l

RT: 1.80 min Scan# 118

Delta R.T. 0.00 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

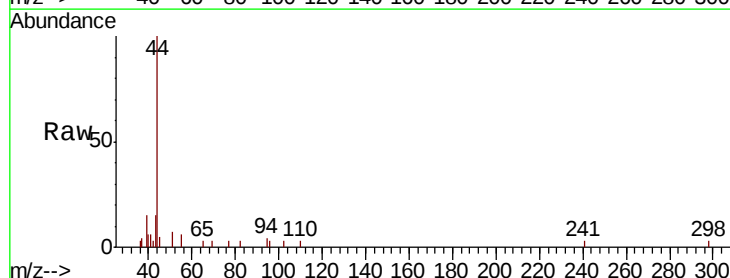
Tgt Ion: 96 Resp: 63

Ion Ratio Lower Upper

96 100

61 0.0 182.0 273.0#

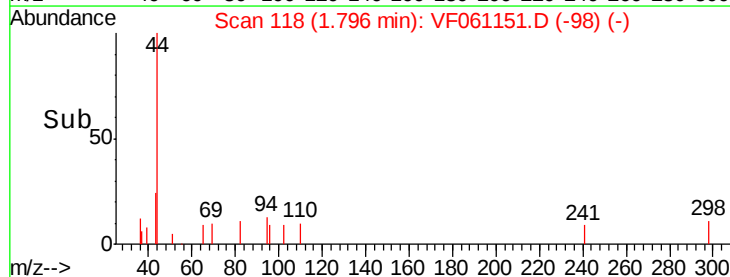
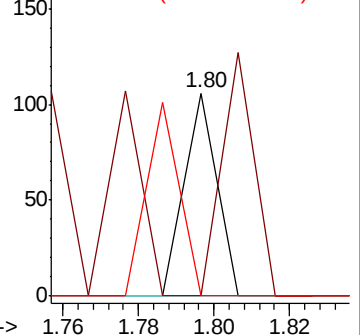
98 0.0 46.5 69.7#

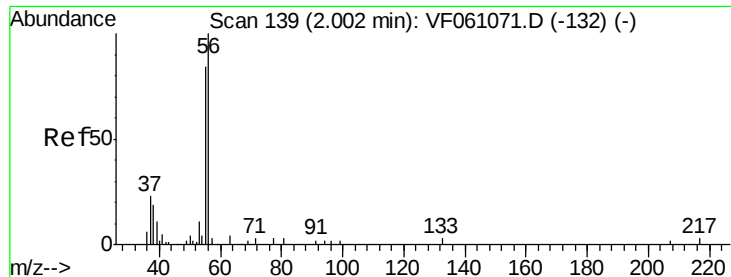


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

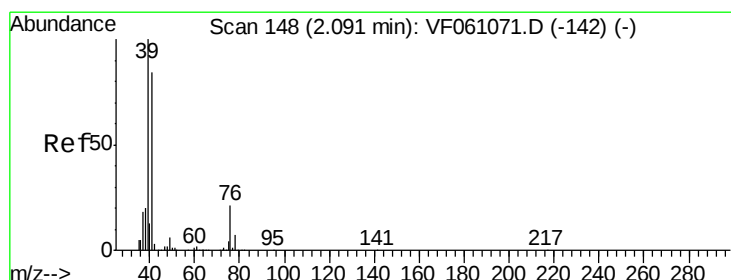
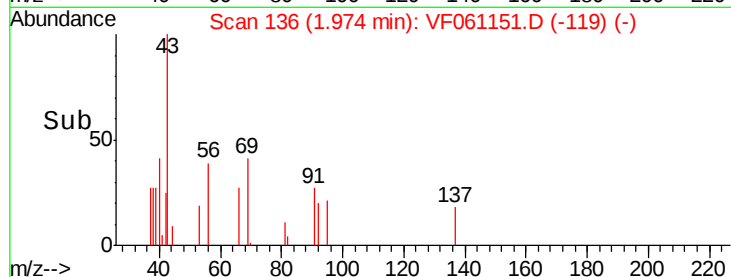
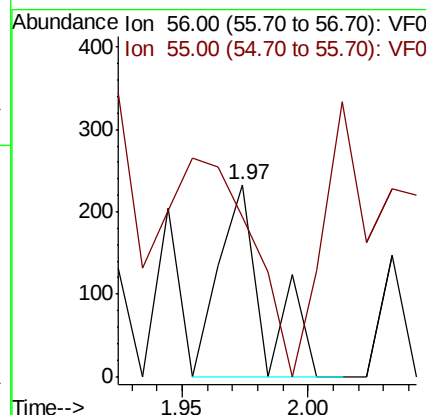
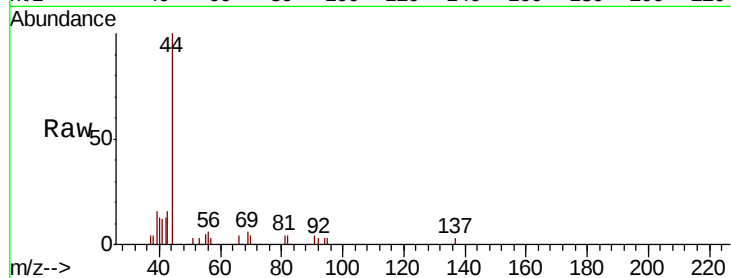




#13  
Acrolein  
Concen: 159.357 ug/l  
RT: 1.97 min Scan# 136  
Delta R.T. -0.03 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

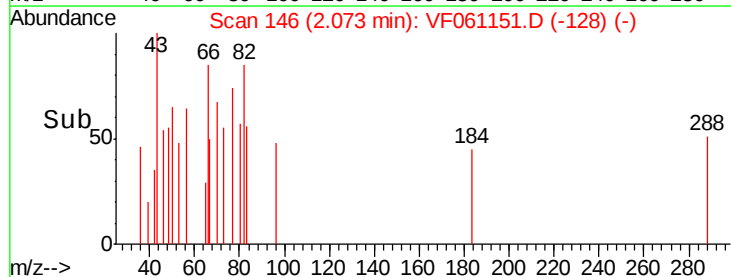
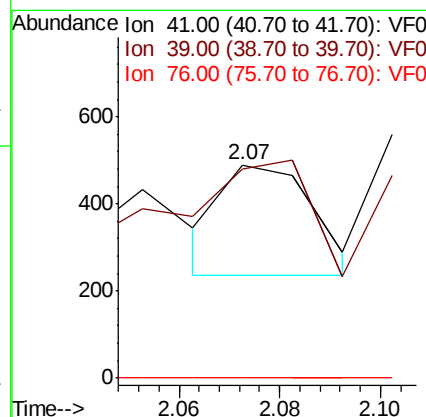
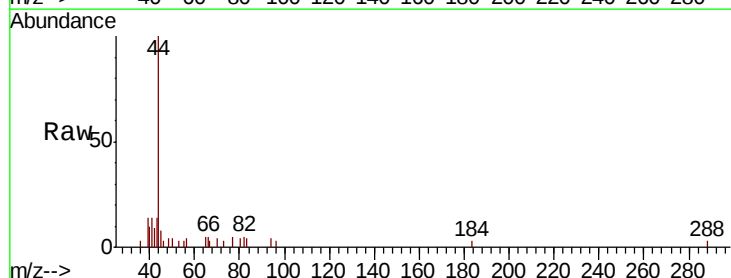
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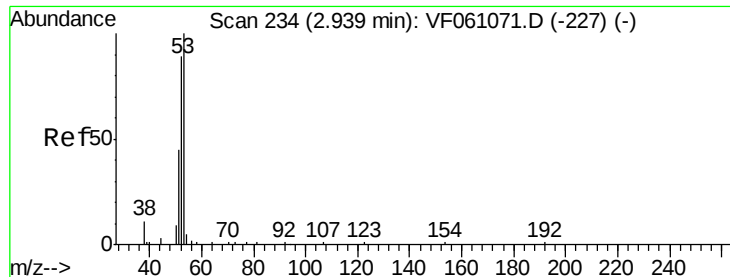
Tgt Ion: 56 Resp: 291  
Ion Ratio Lower Upper  
56 100  
55 83.3 70.2 105.2



#14  
Allyl chloride  
Concen: 7.097 ug/l  
RT: 2.07 min Scan# 146  
Delta R.T. -0.02 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 41 Resp: 317  
Ion Ratio Lower Upper  
41 100  
39 98.0 96.4 144.6  
76 0.0 25.4 38.0#





#15

Acrylonitrile

Concen: 53.904 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

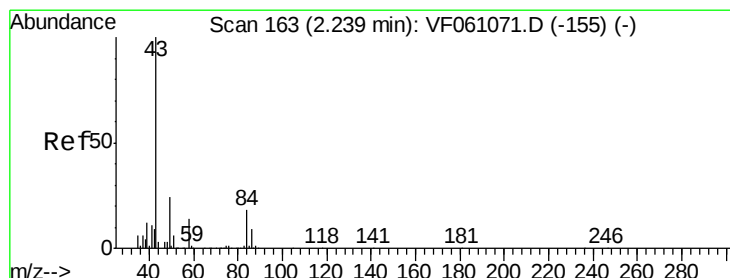
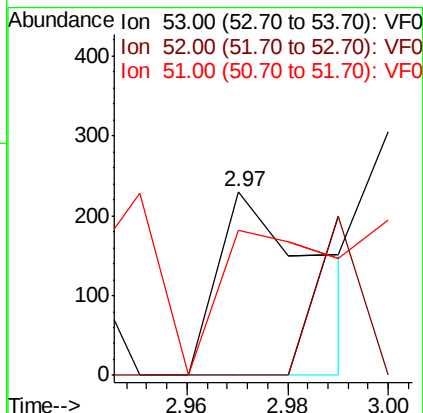
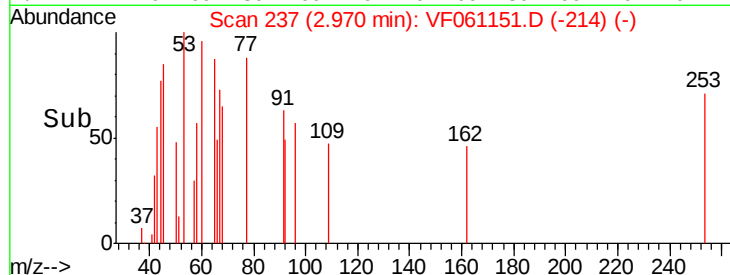
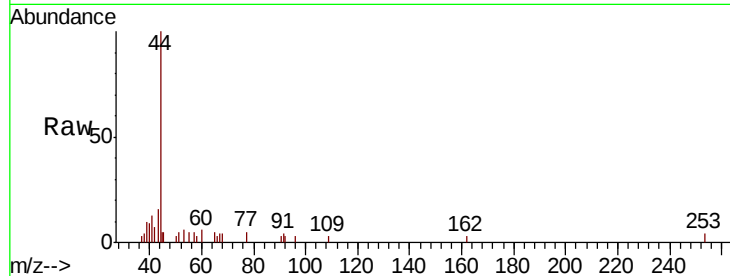
Tgt Ion: 53 Resp: 315

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 78.7 36.8 55.2#



#16

Acetone

Concen: 44.971 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061151.D

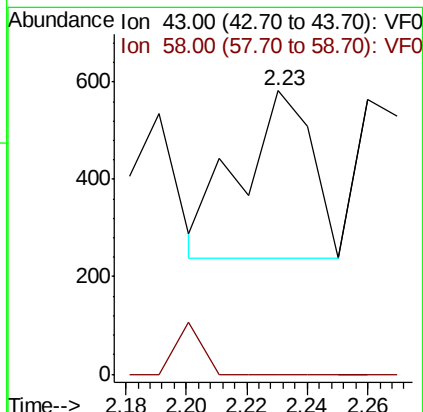
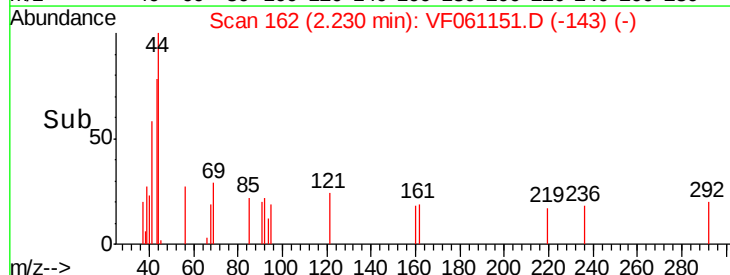
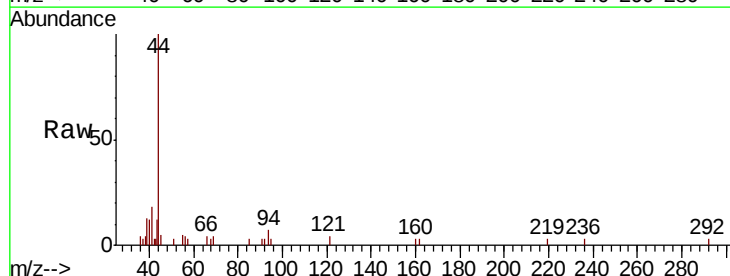
Acq: 22 Dec 2018 18:23

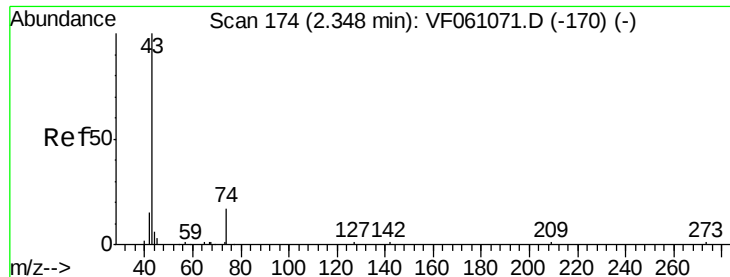
Tgt Ion: 43 Resp: 563

Ion Ratio Lower Upper

43 100

58 0.0 11.1 16.7#

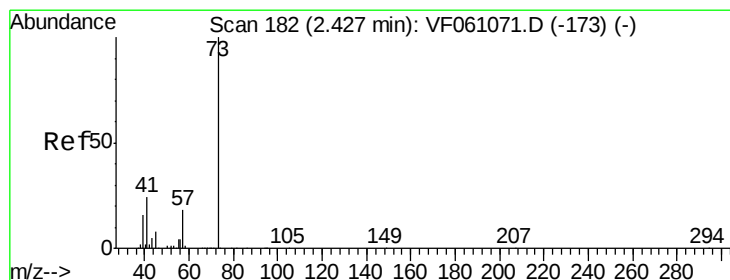
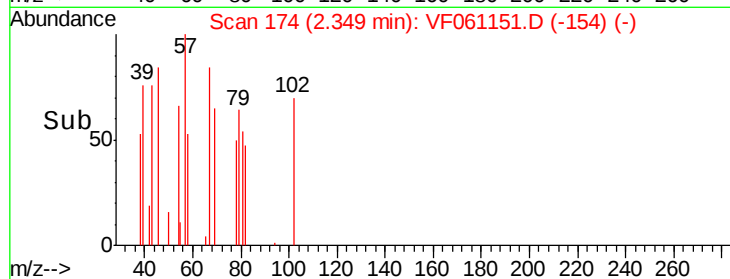
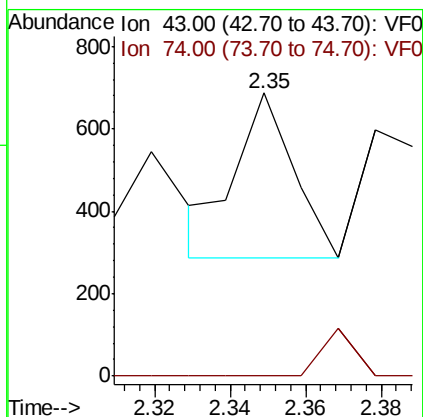
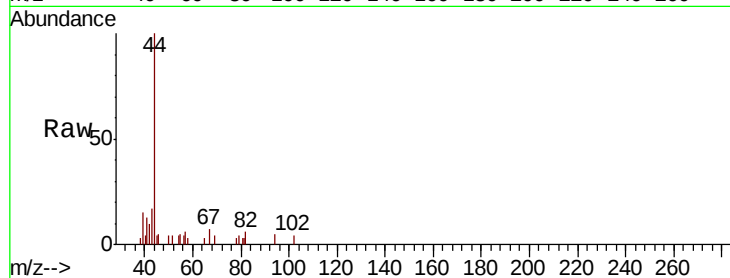




#18  
Methyl Acetate  
Concen: 16.138 ug/l  
RT: 2.35 min Scan# 174  
Delta R.T. 0.00 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

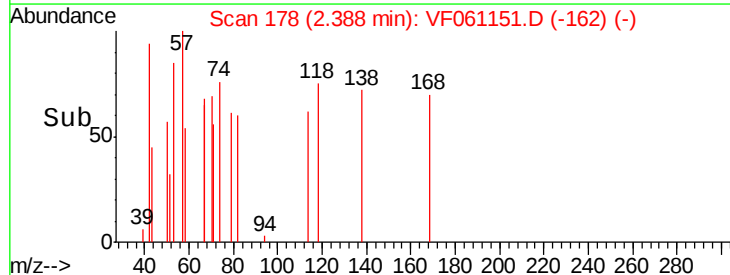
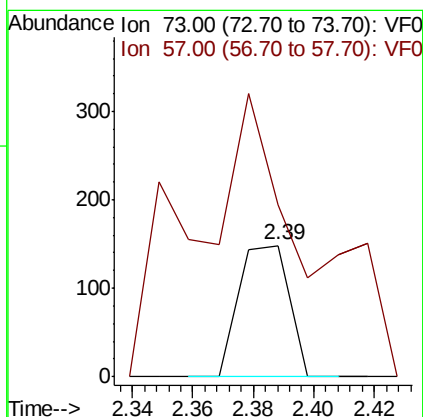
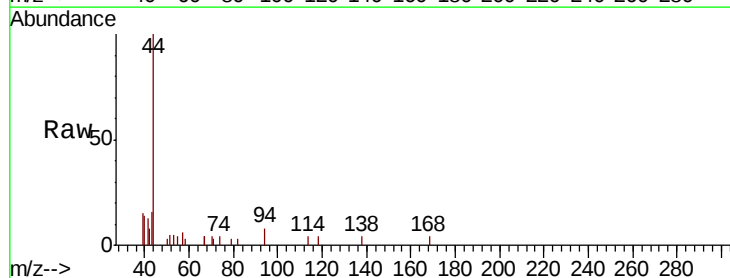
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

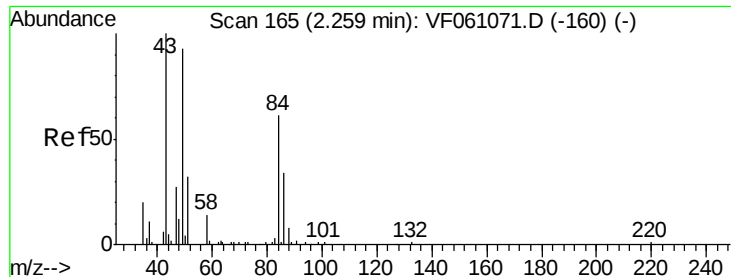
Tgt Ion: 43 Resp: 418  
Ion Ratio Lower Upper  
43 100  
74 0.0 11.0 16.6#



#19  
Methyl tert-butyl Ether  
Concen: 1.816 ug/l  
RT: 2.39 min Scan# 178  
Delta R.T. -0.04 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 73 Resp: 173  
Ion Ratio Lower Upper  
73 100  
57 131.1 14.5 21.7#

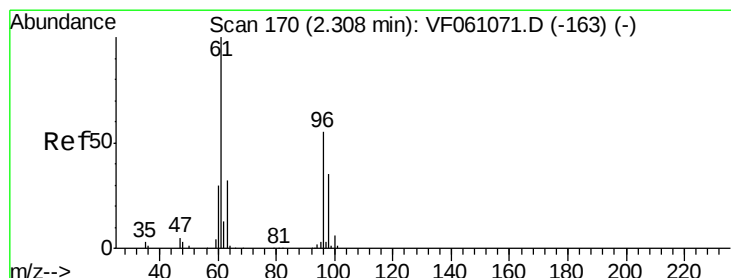
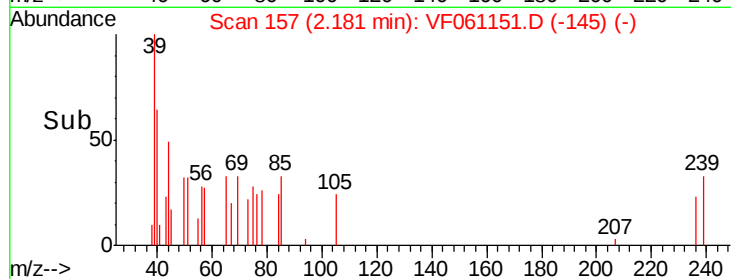
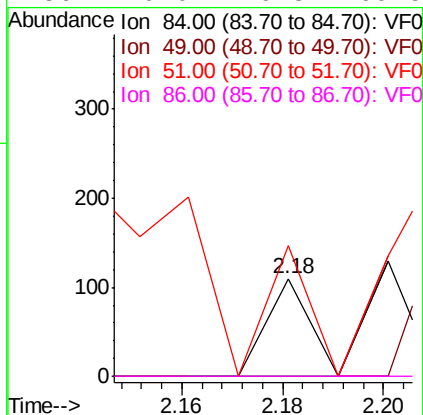
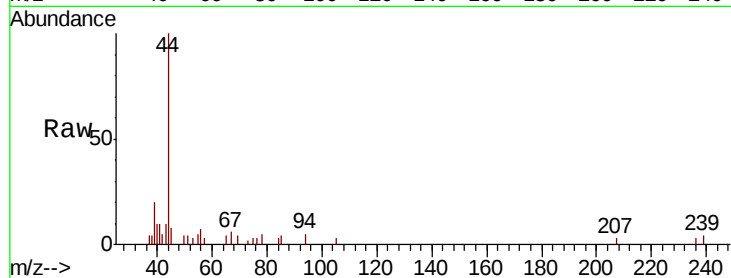




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.18 min Scan# 157  
Delta R.T. -0.08 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

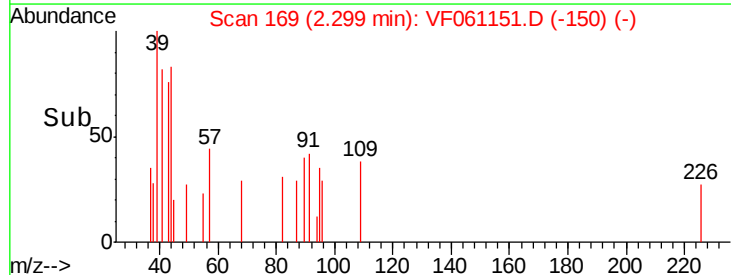
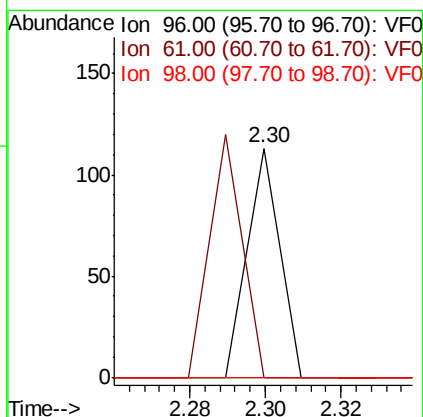
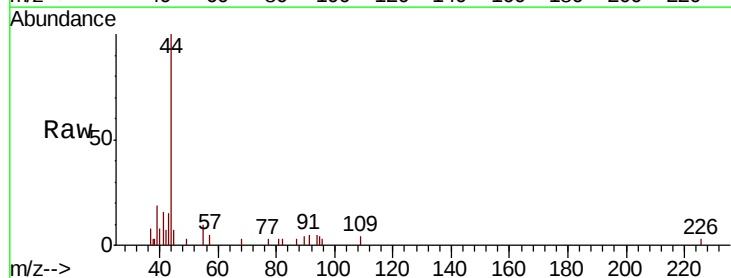
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

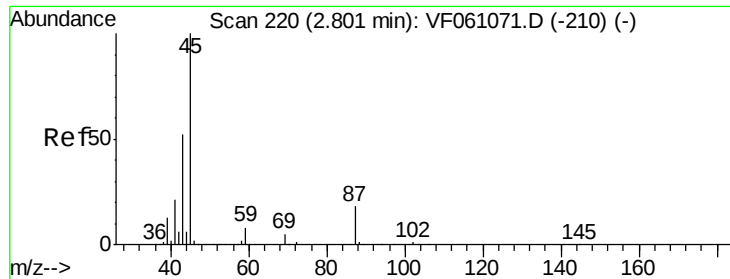
Tgt Ion: 84 Resp: 65  
Ion Ratio Lower Upper  
84 100  
49 0.0 129.4 194.2#  
51 133.6 44.0 66.0#  
86 0.0 46.3 69.5#



#21  
trans-1,2-Dichloroethene  
Concen: 1.460 ug/l  
RT: 2.30 min Scan# 169  
Delta R.T. -0.01 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 96 Resp: 67  
Ion Ratio Lower Upper  
96 100  
61 0.0 146.0 219.0#  
98 0.0 51.6 77.4#





#22

Diisopropyl ether

Concen: 1.922 ug/l

RT: 2.83 min Scan# 223

Delta R.T. 0.03 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

Tgt Ion: 45 Resp: 286

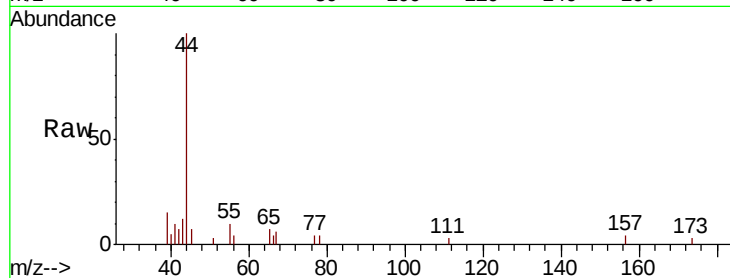
Ion Ratio Lower Upper

45 100

43 171.1 42.2 63.2#

87 0.0 14.6 22.0#

59 0.0 7.0 10.4#

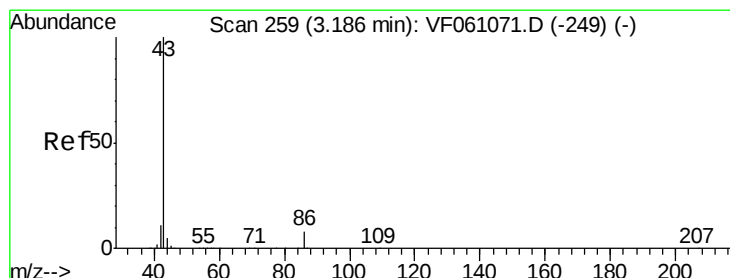
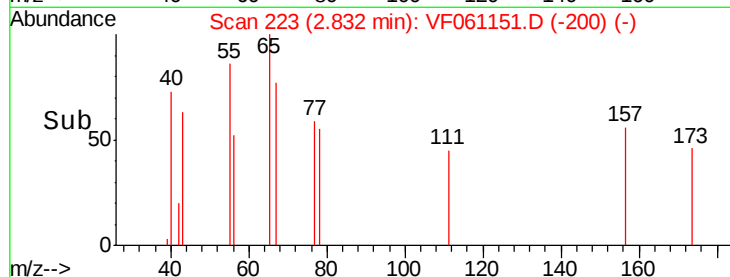
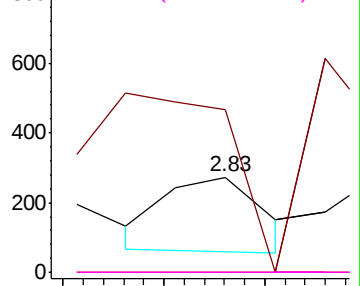


Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 3.205 ug/l

RT: 3.25 min Scan# 265

Delta R.T. 0.06 min

Lab File: VF061151.D

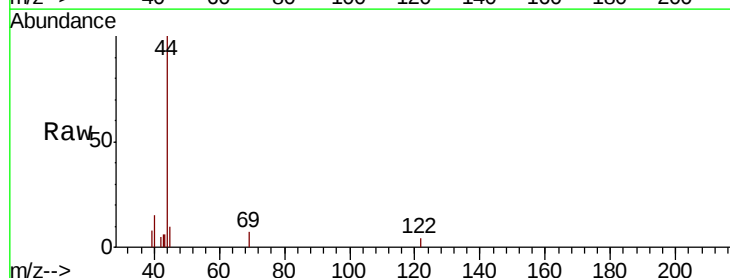
Acq: 22 Dec 2018 18:23

Tgt Ion: 43 Resp: 220

Ion Ratio Lower Upper

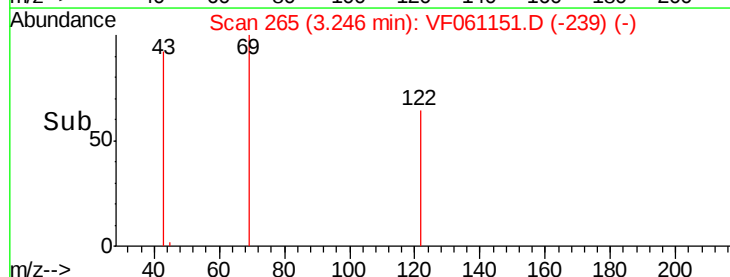
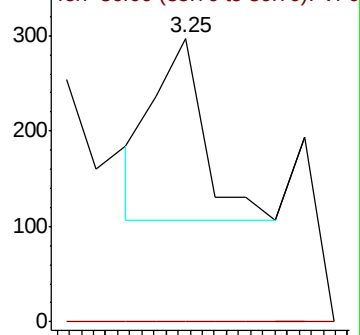
43 100

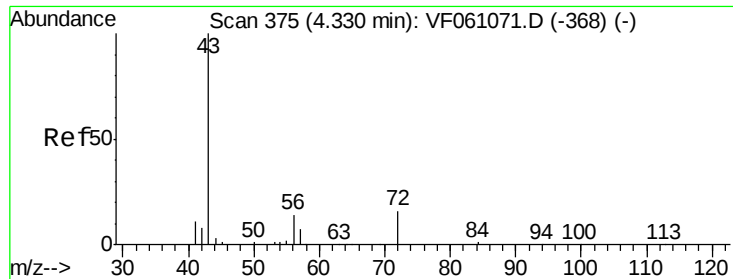
86 0.0 6.3 9.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 7.880 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

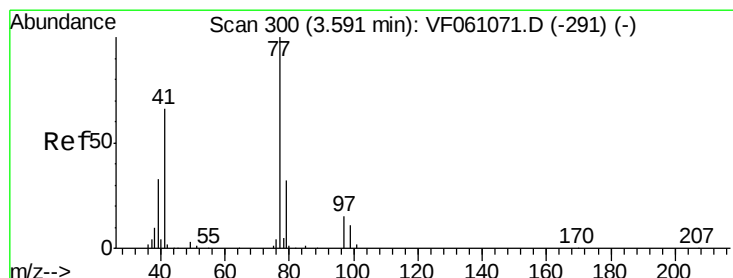
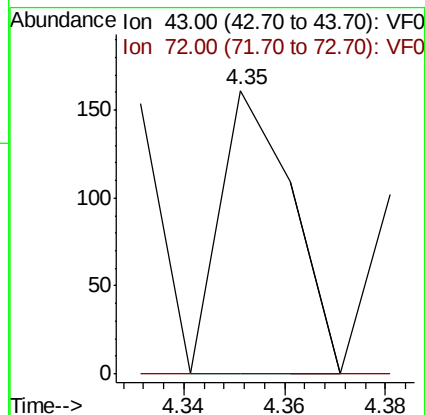
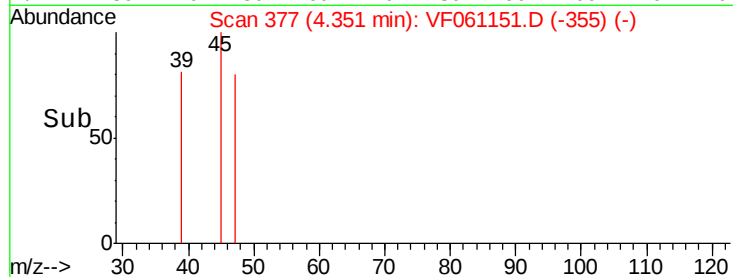
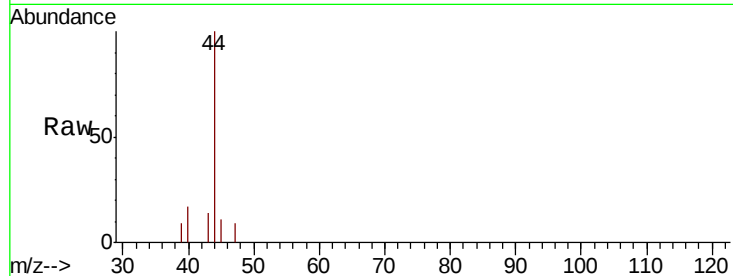
NB-07-122018-BRE

Tgt Ion: 43 Resp: 160

Ion Ratio Lower Upper

43 100

72 0.0 15.6 23.4#



#26

2,2-Dichloropropane

Concen: 1.305 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.01 min

Lab File: VF061151.D

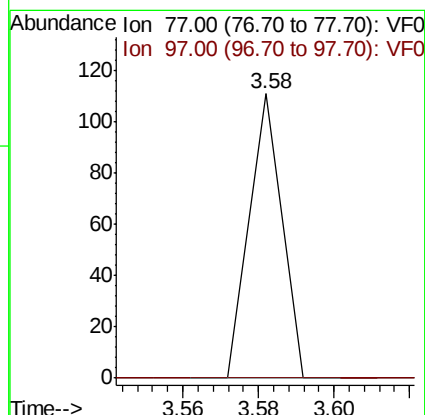
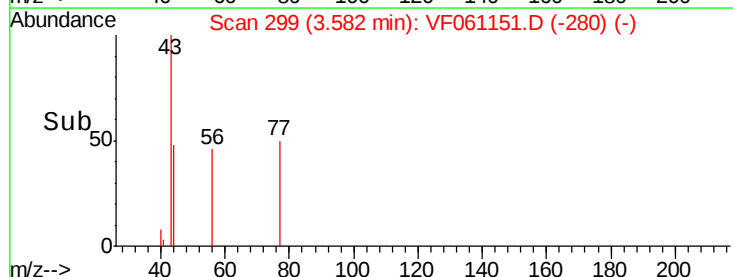
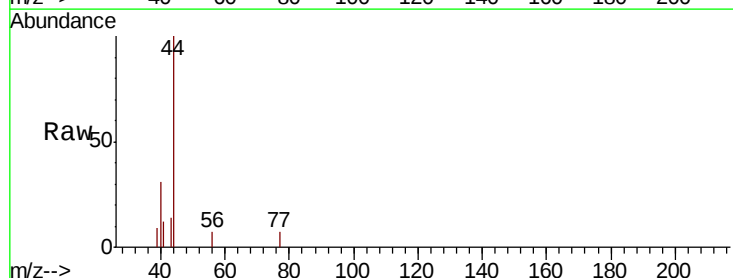
Acq: 22 Dec 2018 18:23

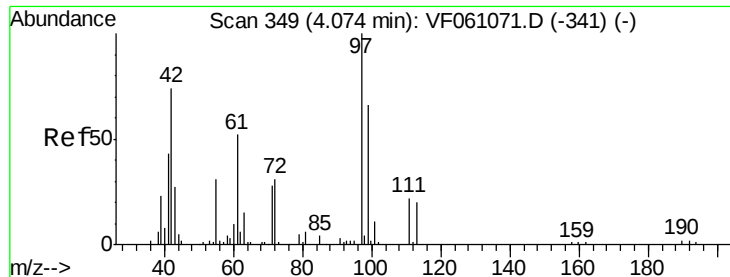
Tgt Ion: 77 Resp: 66

Ion Ratio Lower Upper

77 100

97 0.0 8.2 24.4#





#29

Tetrahydrofuran

Concen: 8.592 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

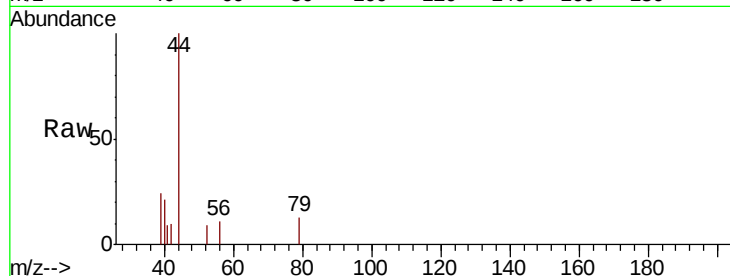
Tgt Ion: 42 Resp: 71

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

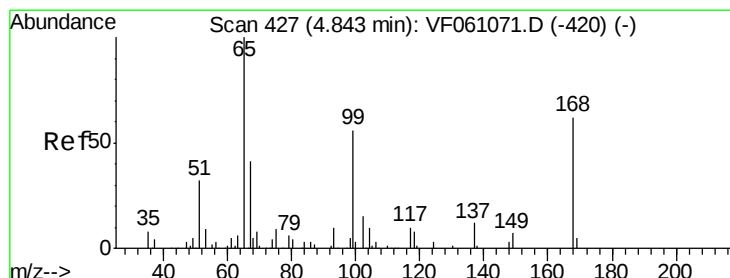
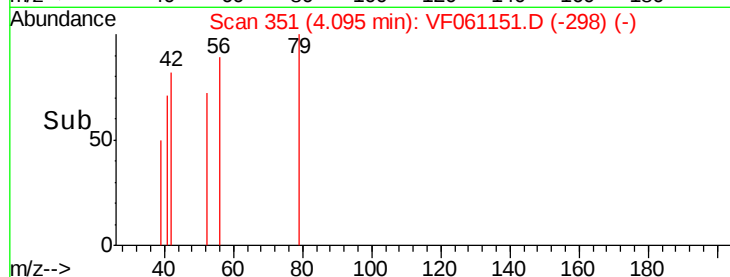
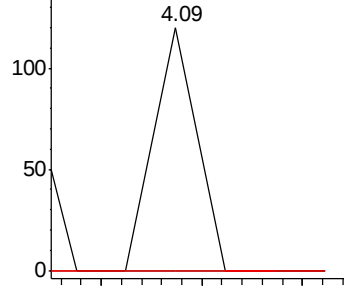
71 0.0 29.7 44.5#



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



#33

1,2-Dichloroethane-d4

Concen: 10.954 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.03 min

Lab File: VF061151.D

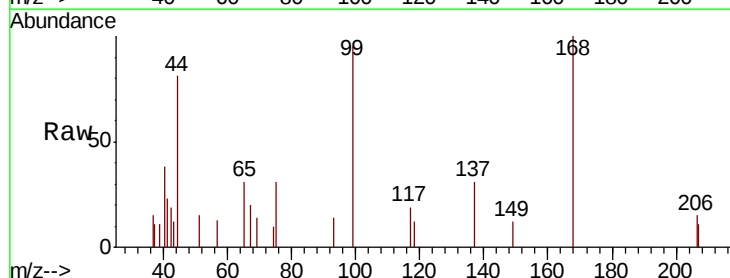
Acq: 22 Dec 2018 18:23

Tgt Ion: 65 Resp: 686

Ion Ratio Lower Upper

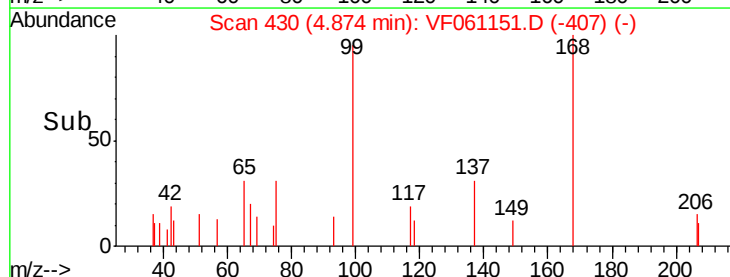
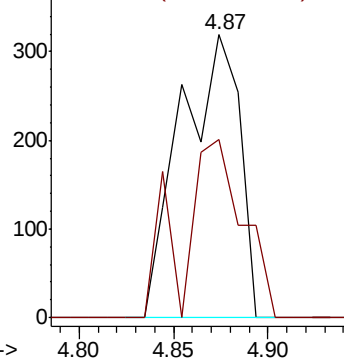
65 100

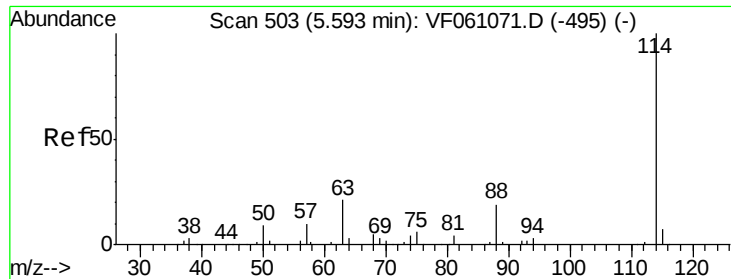
67 63.0 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

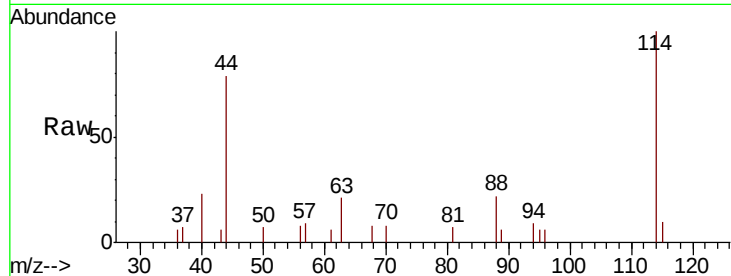




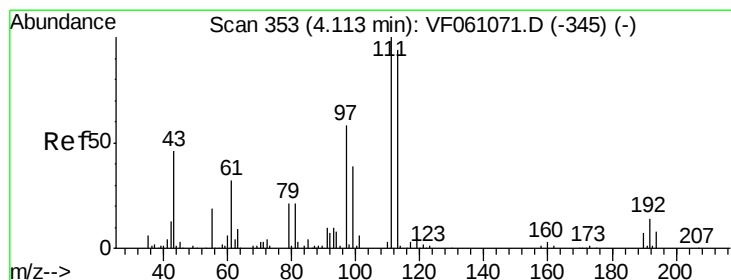
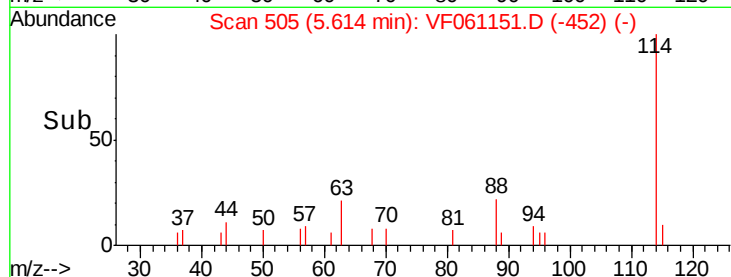
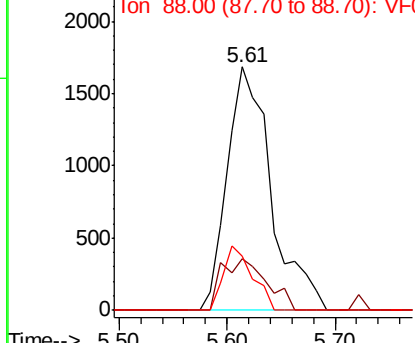
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.61 min Scan# 505  
 Delta R.T. 0.02 min  
 Lab File: VF061151.D  
 Acq: 22 Dec 2018 18:23

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-07-122018-BRE

Tgt Ion:114 Resp: 4761  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 41.6  
 88 22.0 0.0 38.0

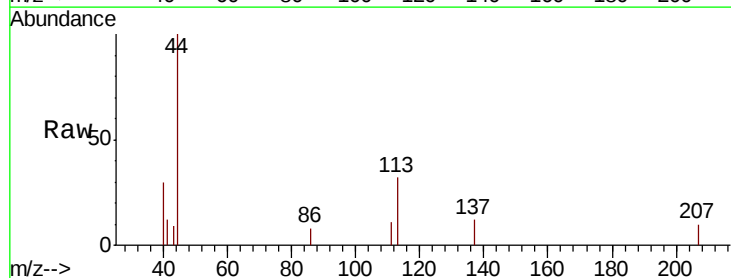


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VF0  
 Ion 88.00 (87.70 to 88.70): VF0

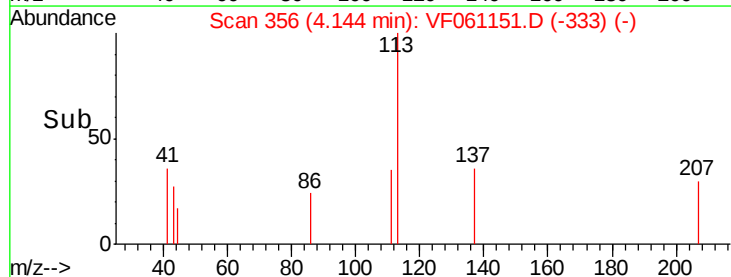
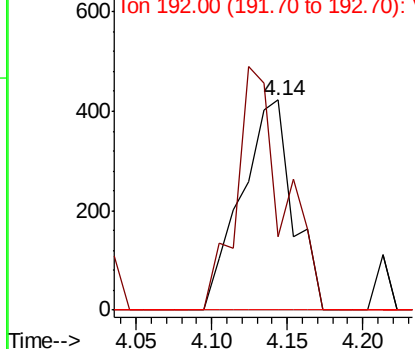


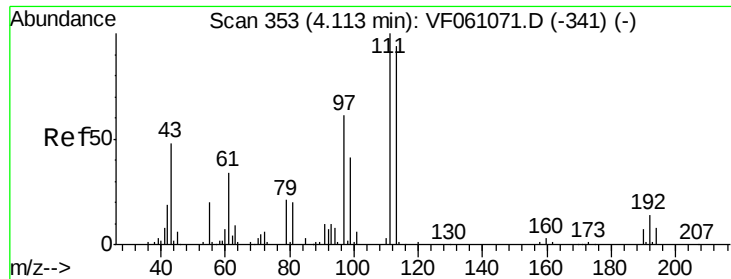
#35  
 Dibromofluoromethane  
 Concen: 26.404 ug/l  
 RT: 4.14 min Scan# 356  
 Delta R.T. 0.03 min  
 Lab File: VF061151.D  
 Acq: 22 Dec 2018 18:23

Tgt Ion:113 Resp: 1007  
 Ion Ratio Lower Upper  
 113 100  
 111 34.8 85.2 127.8#  
 192 0.0 12.8 19.2#



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

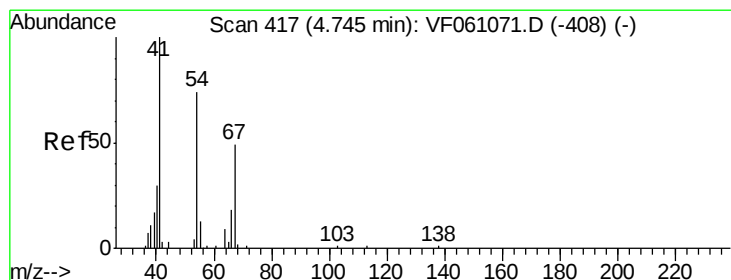
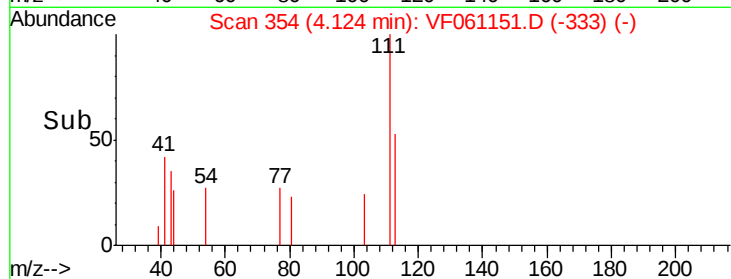
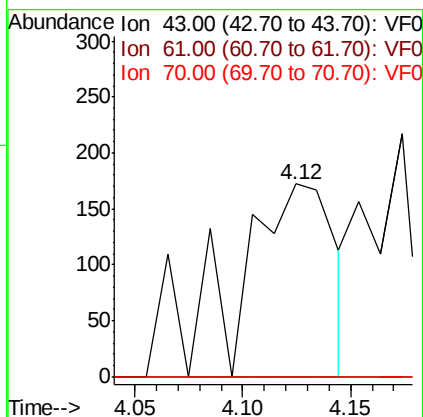
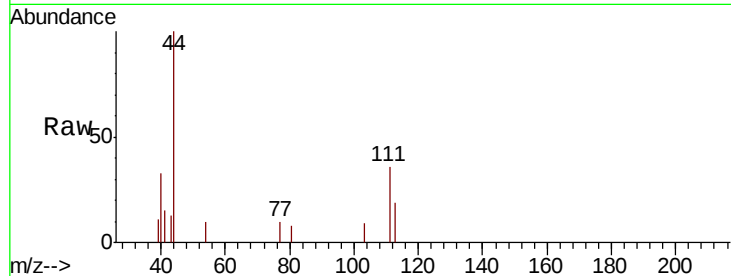




#37  
Ethyl Acetate  
Concen: 20.534 ug/l  
RT: 4.12 min Scan# 354  
Delta R.T. 0.01 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

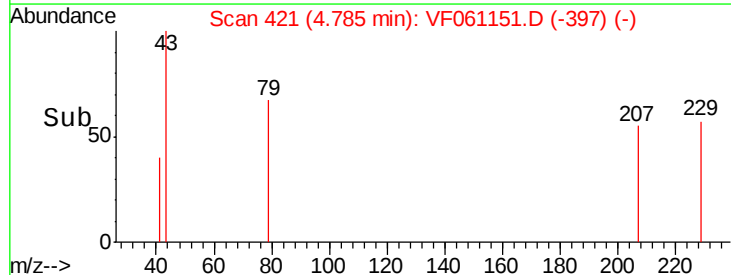
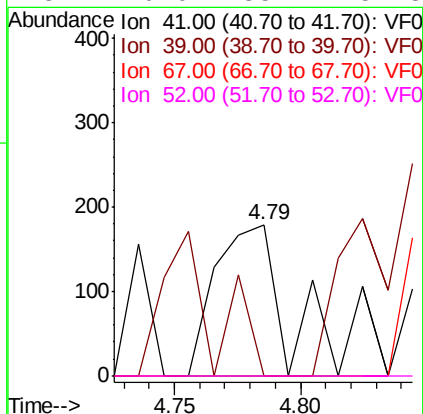
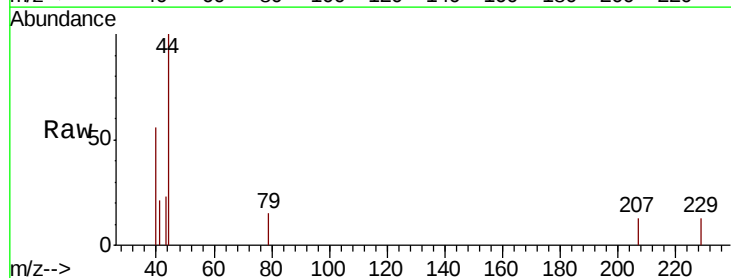
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

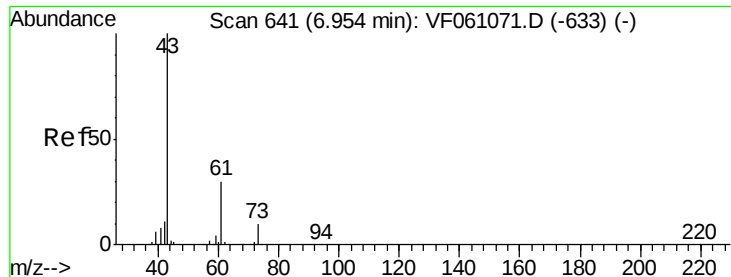
Tgt Ion: 43 Resp: 508  
Ion Ratio Lower Upper  
43 100  
61 0.0 56.6 84.8#  
70 0.0 6.3 9.5#



#41  
Methacrylonitrile  
Concen: 28.591 ug/l  
RT: 4.79 min Scan# 421  
Delta R.T. 0.04 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 41 Resp: 347  
Ion Ratio Lower Upper  
41 100  
39 0.0 45.7 68.5#  
67 0.0 38.9 58.3#  
52 0.0 35.2 52.8#

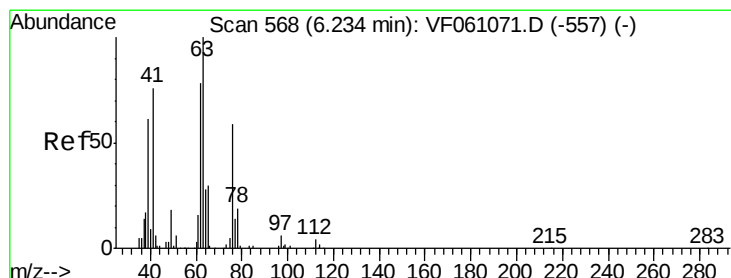
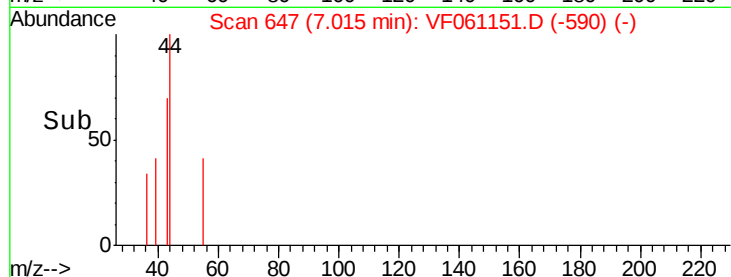
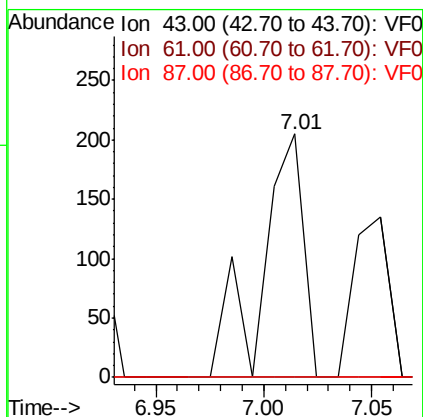
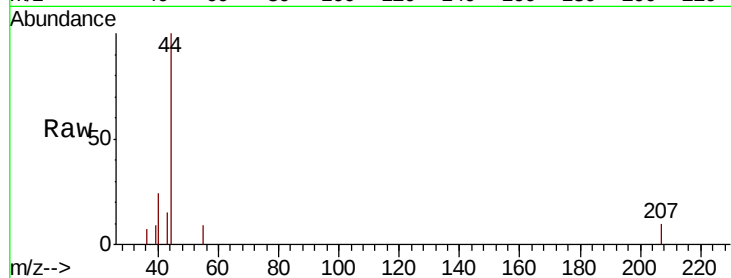




#43  
Isopropyl Acetate  
Concen: 9.982 ug/l  
RT: 7.01 min Scan# 647  
Delta R.T. 0.06 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

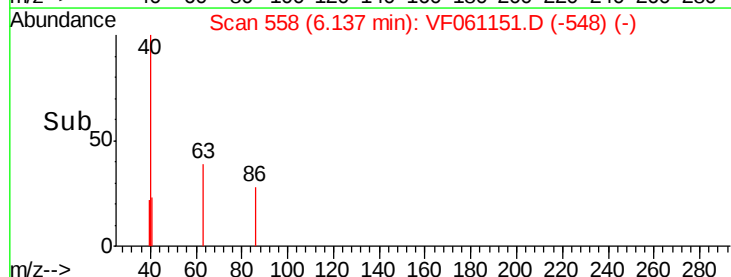
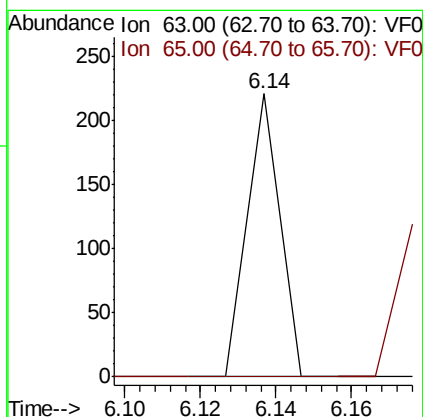
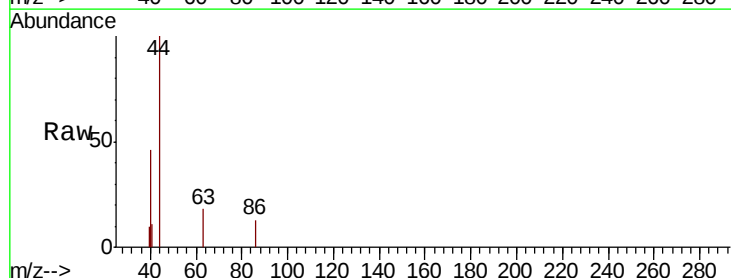
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

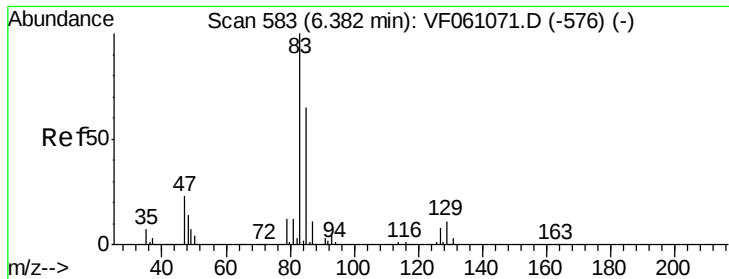
Tgt Ion: 43 Resp: 277  
Ion Ratio Lower Upper  
43 100  
61 0.0 23.8 35.8#  
87 0.0 0.0 0.0



#45  
1,2-Dichloropropane  
Concen: 3.896 ug/l  
RT: 6.14 min Scan# 558  
Delta R.T. -0.10 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 63 Resp: 131  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.4 36.6#





#47

Bromodichloromethane

Concen: 1.129 ug/l

RT: 6.52 min Scan# 597

Delta R.T. 0.14 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

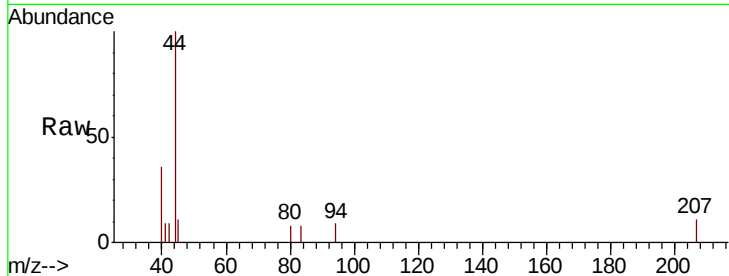
Tgt Ion: 83 Resp: 64

Ion Ratio Lower Upper

83 100

85 0.0 52.2 78.4#

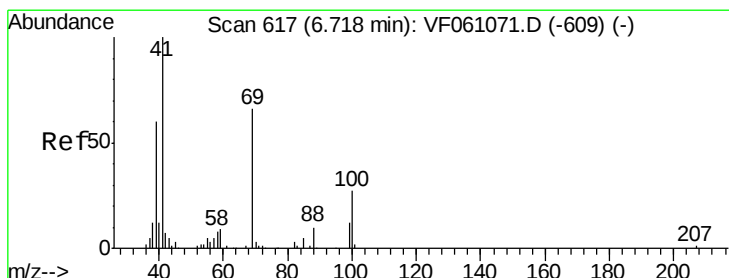
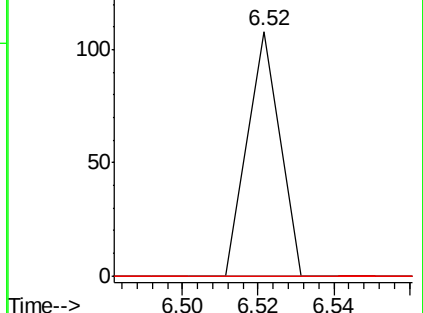
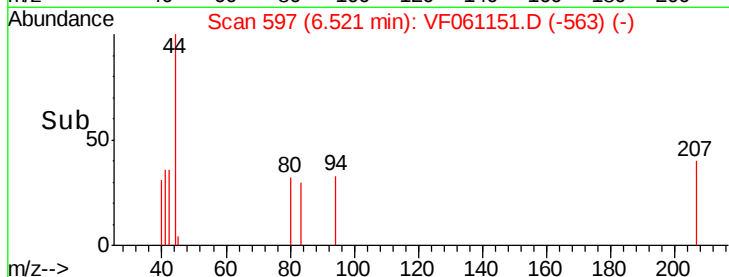
127 0.0 6.1 9.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 7.279 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.03 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

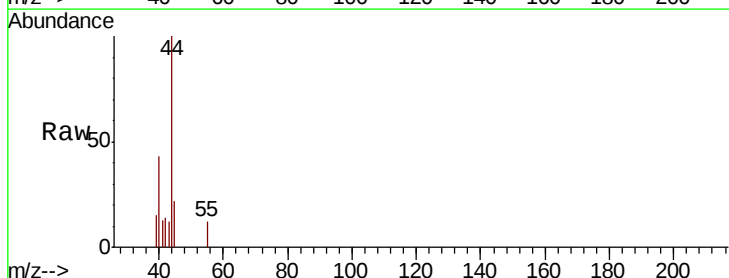
Tgt Ion: 41 Resp: 141

Ion Ratio Lower Upper

41 100

69 0.0 52.7 79.1#

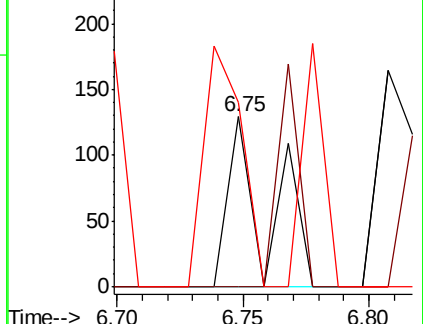
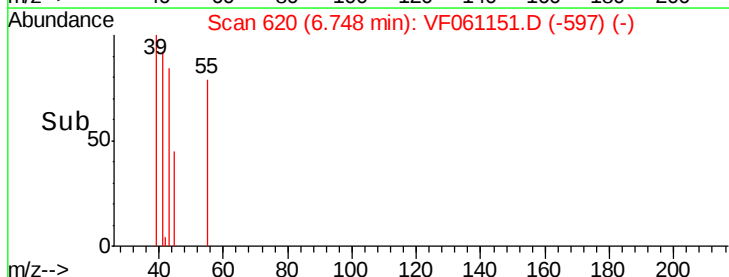
39 108.5 47.8 71.6#

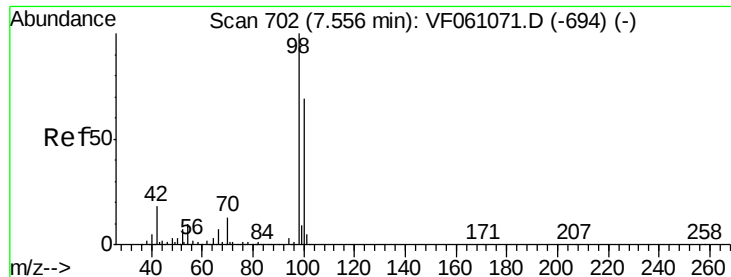


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

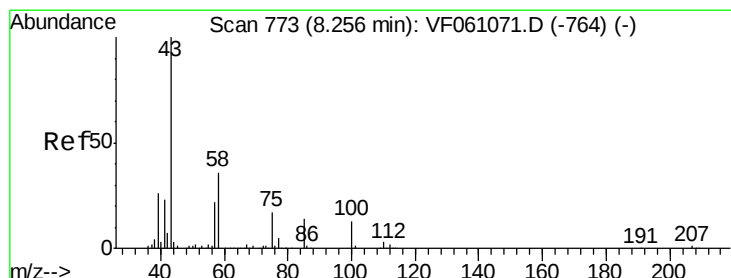
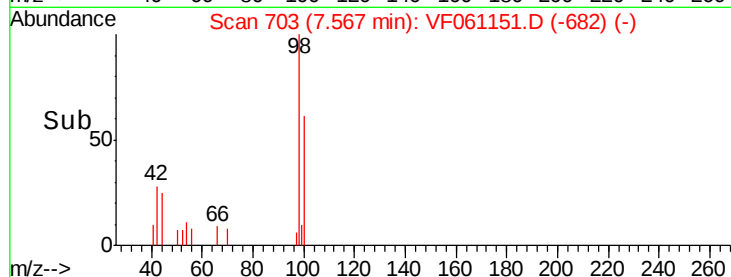
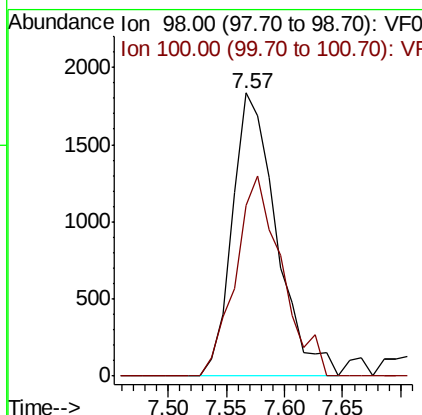
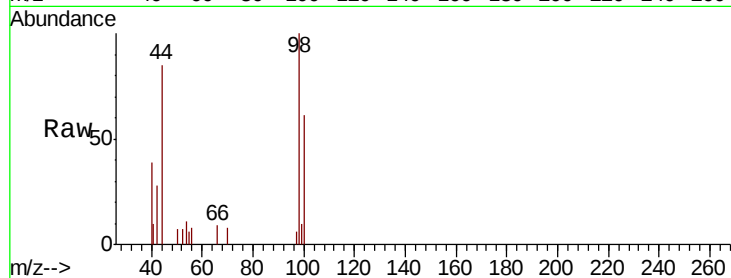




#50  
Toluene-d8  
Concen: 44.578 ug/l  
RT: 7.57 min Scan# 703  
Delta R.T. 0.01 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

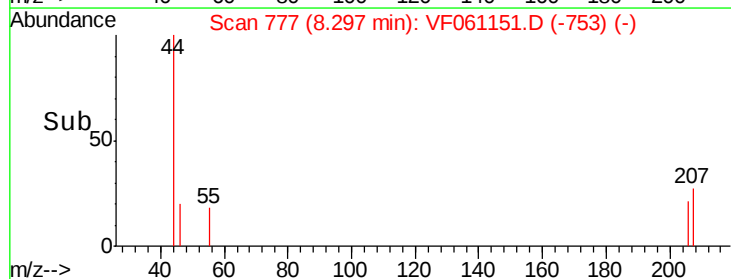
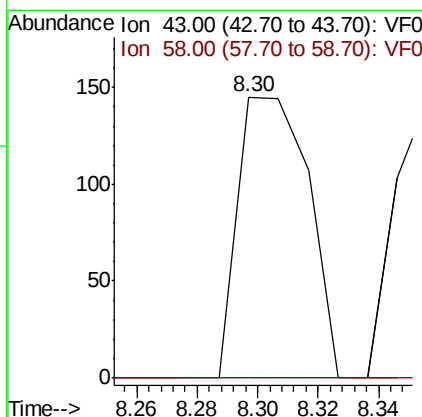
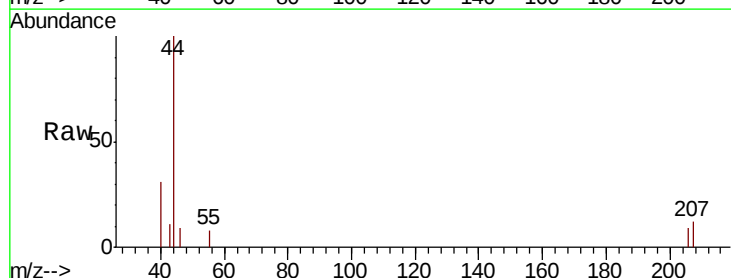
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

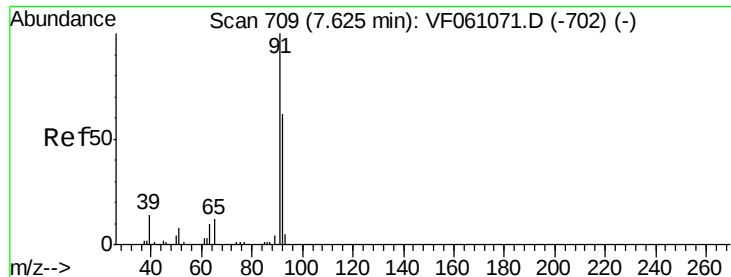
Tgt Ion: 98 Resp: 4818  
Ion Ratio Lower Upper  
98 100  
100 60.5 55.3 82.9



#51  
4-Methyl-2-Pentanone  
Concen: 12.296 ug/l  
RT: 8.30 min Scan# 777  
Delta R.T. 0.04 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 43 Resp: 234  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7#





#52

Toluene

Concen: 2.726 ug/l

RT: 7.66 min Scan# 712

Delta R.T. 0.03 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

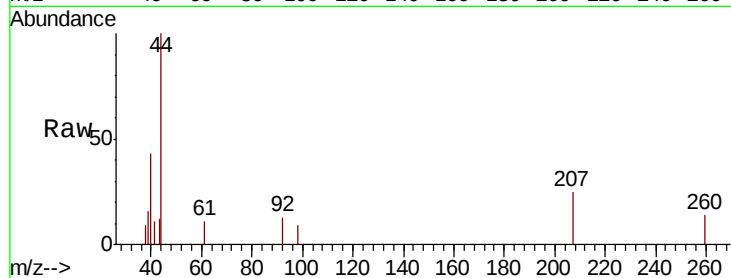
NB-07-122018-BRE

Tgt Ion: 92 Resp: 223

Ion Ratio Lower Upper

92 100

91 0.0 128.8 193.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.66

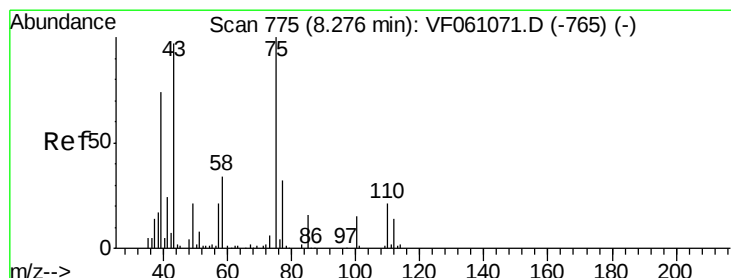
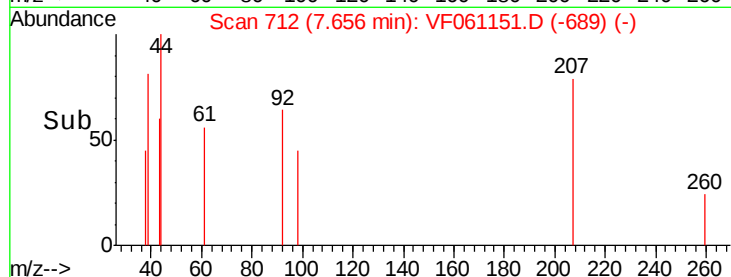
150

100

50

0

Time--> 7.60 7.65 7.70



#53

t-1,3-Dichloropropene

Concen: 1.313 ug/l

RT: 8.39 min Scan# 786

Delta R.T. 0.11 min

Lab File: VF061151.D

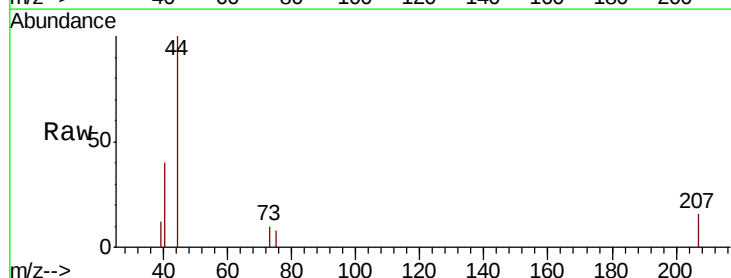
Acq: 22 Dec 2018 18:23

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.39

120

100

80

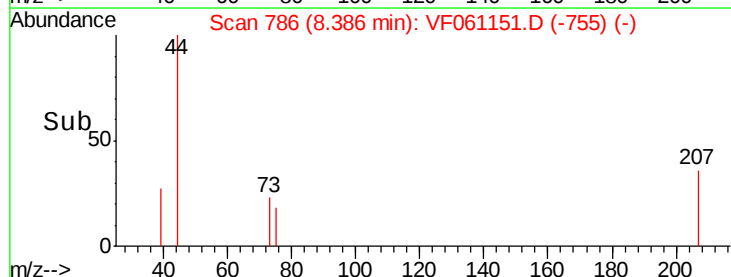
60

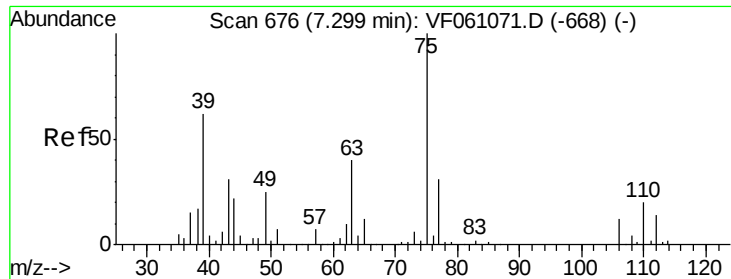
40

20

0

Time--> 8.36 8.38 8.40





#54

cis-1,3-Dichloropropene

Concen: 1.133 ug/l

RT: 7.45 min Scan# 691

Delta R.T. 0.15 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

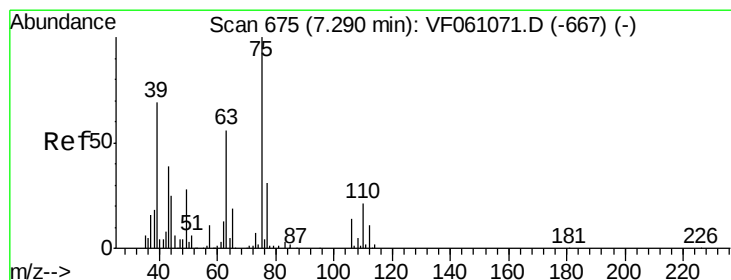
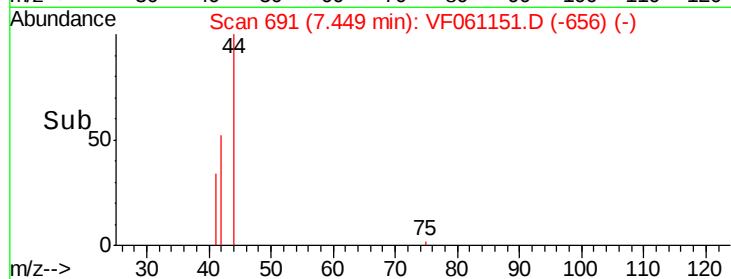
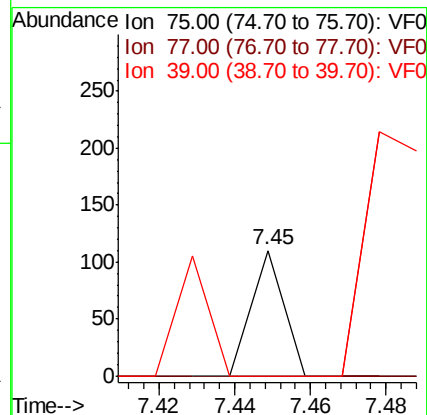
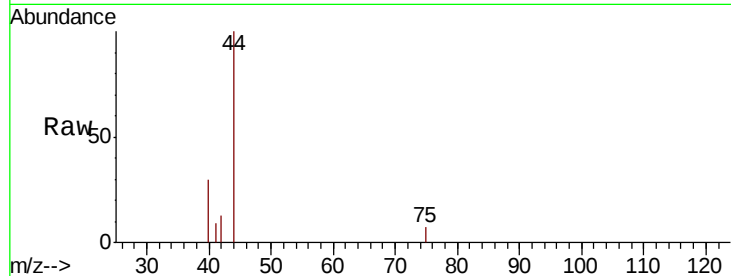
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 0.0 50.1 75.1#



#58

2-Chloroethyl Vinyl ether

Concen: 13.342 ug/l

RT: 7.44 min Scan# 690

Delta R.T. 0.15 min

Lab File: VF061151.D

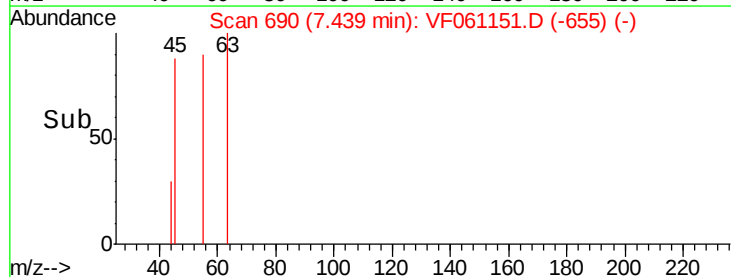
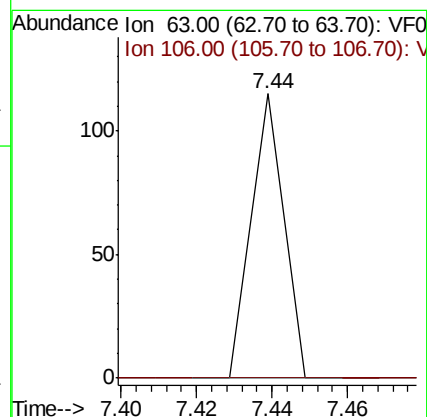
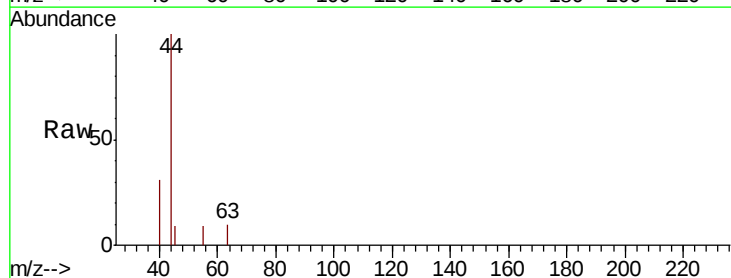
Acq: 22 Dec 2018 18:23

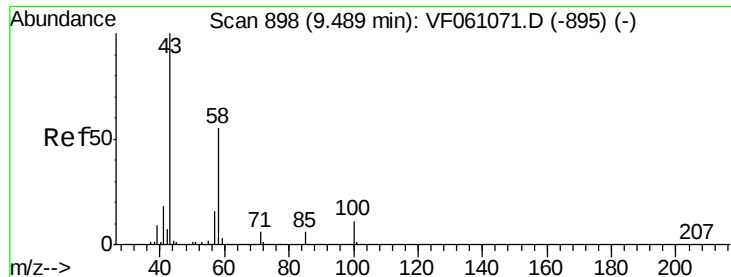
Tgt Ion: 63 Resp: 68

Ion Ratio Lower Upper

63 100

106 0.0 19.8 29.8#

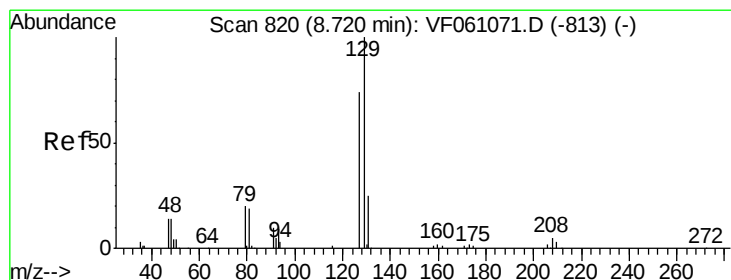
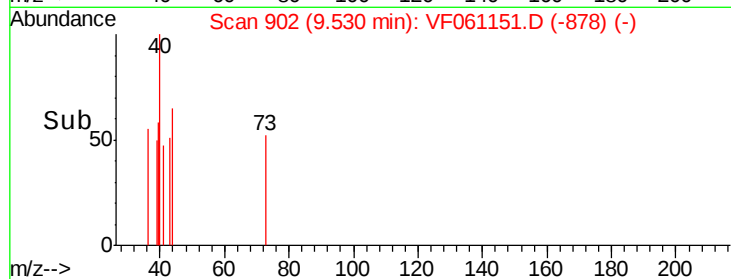
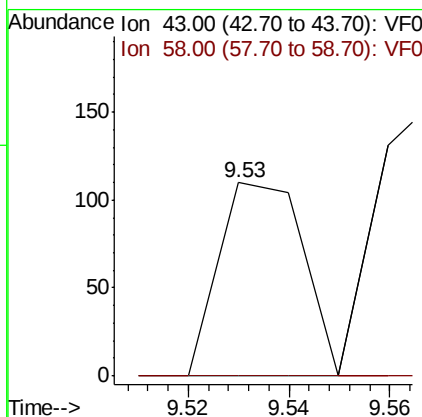
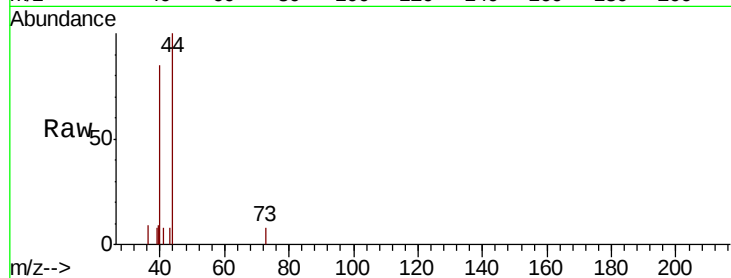




#59  
2-Hexanone  
Concen: 9.228 ug/l  
RT: 9.53 min Scan# 902  
Delta R.T. 0.04 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

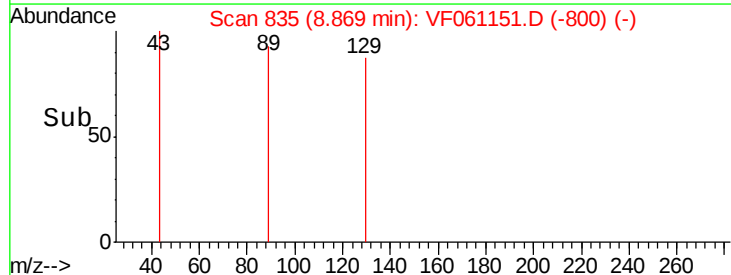
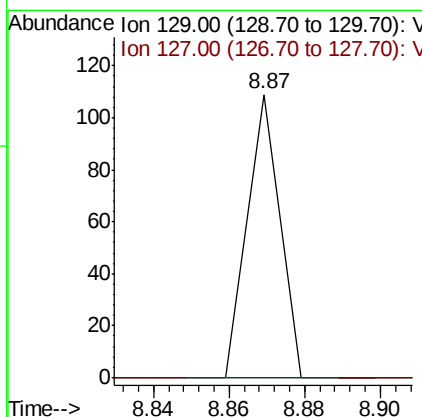
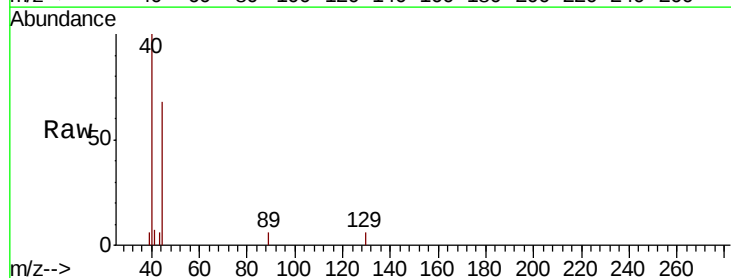
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

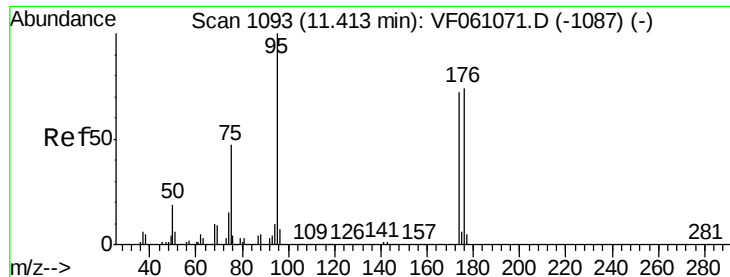
Tgt Ion: 43 Resp: 127  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.1 75.2#



#60  
Dibromochloromethane  
Concen: 1.849 ug/l  
RT: 8.87 min Scan# 835  
Delta R.T. 0.15 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion: 129 Resp: 65  
Ion Ratio Lower Upper  
129 100  
127 0.0 36.8 110.3#





#62

4-Bromofluorobenzene

Concen: 21.013 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

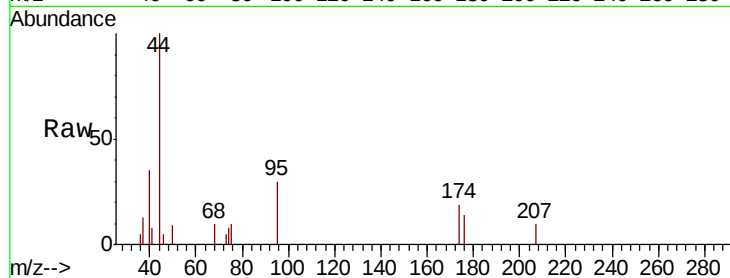
Tgt Ion: 95 Resp: 1047

Ion Ratio Lower Upper

95 100

174 62.6 0.0 143.8

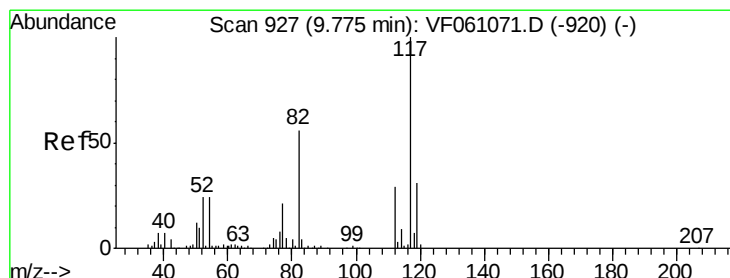
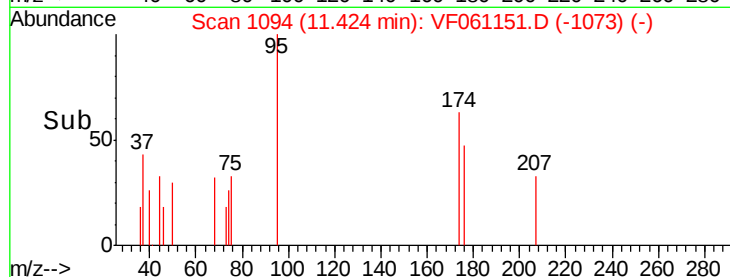
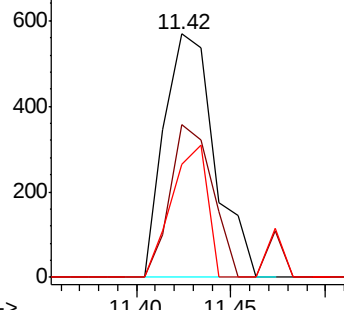
176 46.6 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

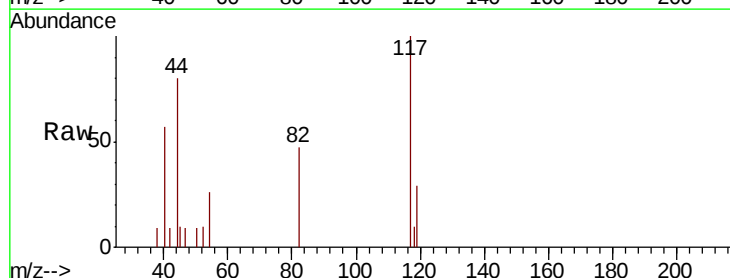
Tgt Ion: 117 Resp: 3405

Ion Ratio Lower Upper

117 100

82 47.4 45.0 67.4

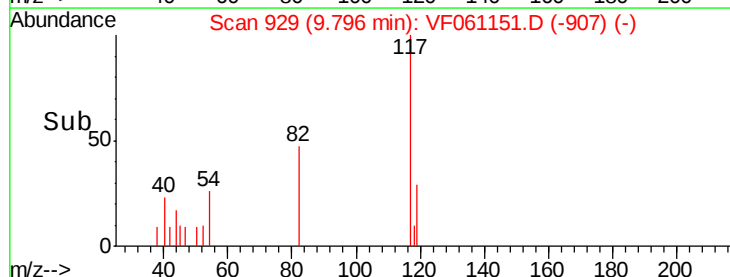
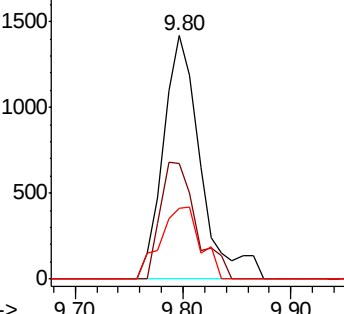
119 29.3 24.8 37.2

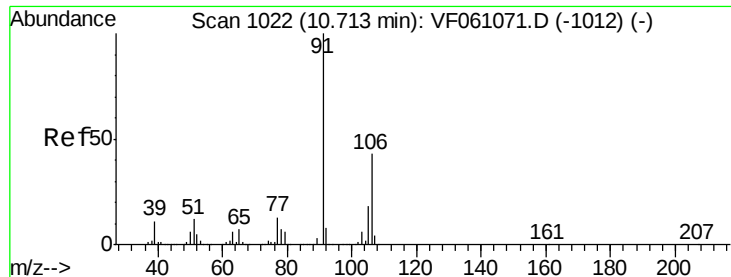


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

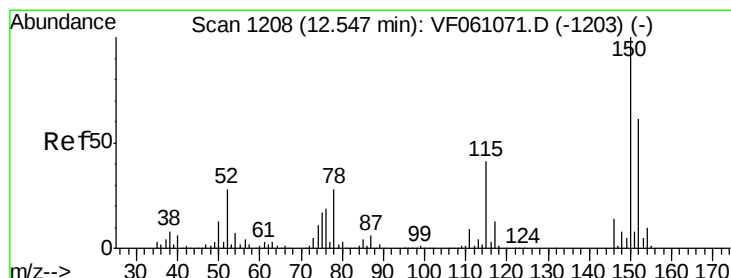
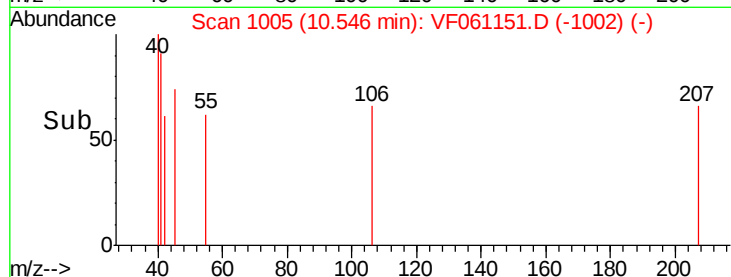
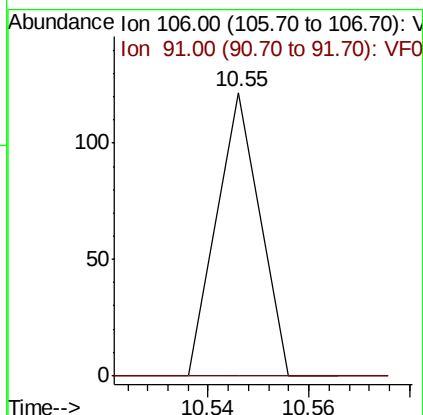
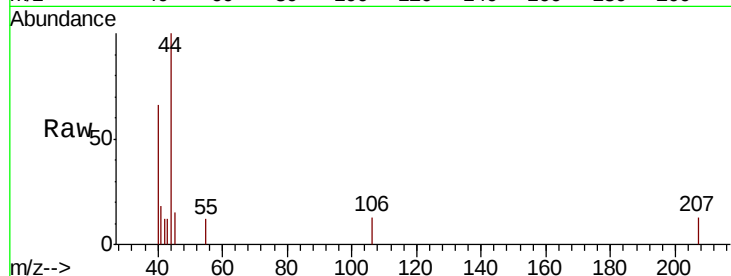




#69  
o-Xylene  
Concen: 1.439 ug/l  
RT: 10.55 min Scan# 1005  
Delta R.T. -0.17 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

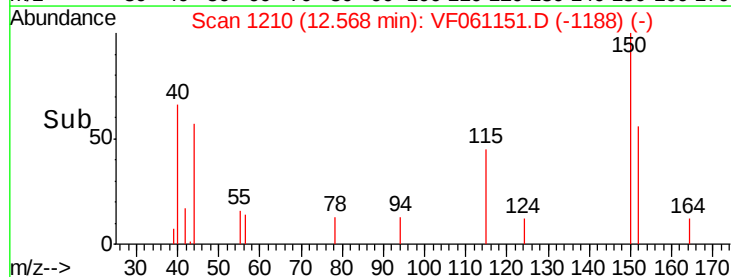
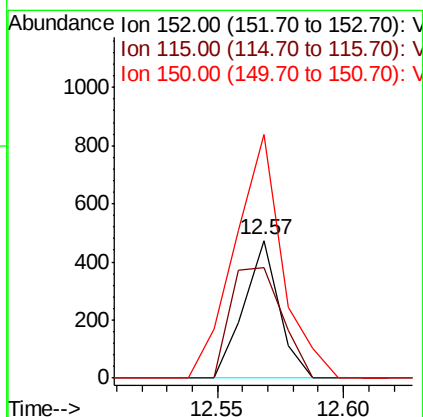
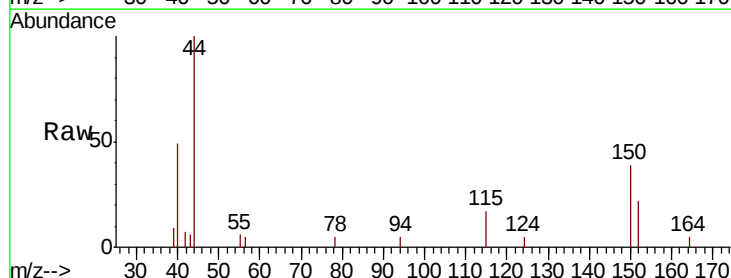
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-BRE

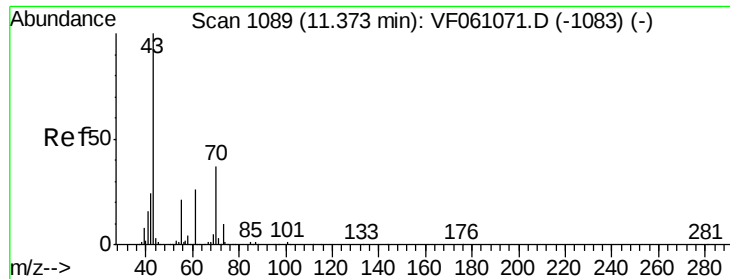
Tgt Ion:106 Resp: 72  
Ion Ratio Lower Upper  
106 100  
91 0.0 115.9 347.7#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.57 min Scan# 1210  
Delta R.T. 0.02 min  
Lab File: VF061151.D  
Acq: 22 Dec 2018 18:23

Tgt Ion:152 Resp: 459  
Ion Ratio Lower Upper  
152 100  
115 80.1 33.3 99.9  
150 177.2 0.0 328.2





#74

N-amyI acetate

Concen: 21.066 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

Tgt Ion: 43 Resp: 185

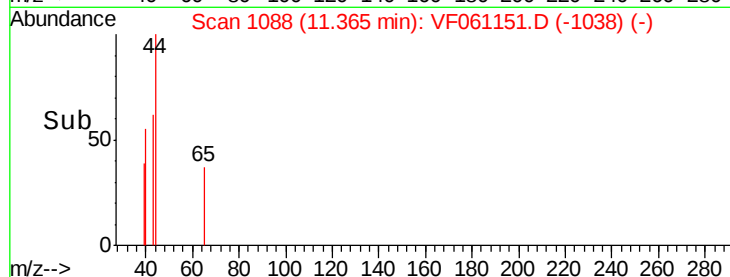
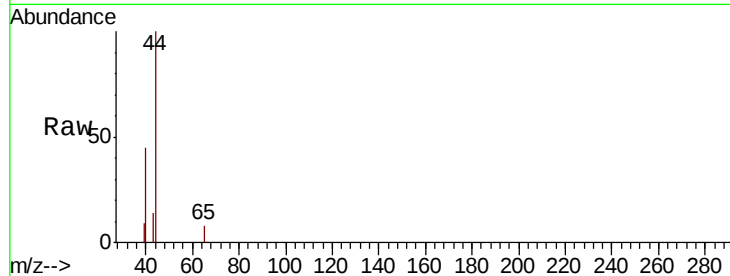
Ion Ratio Lower Upper

43 100

70 0.0 29.2 43.8#

55 0.0 16.5 24.7#

61 0.0 20.7 31.1#

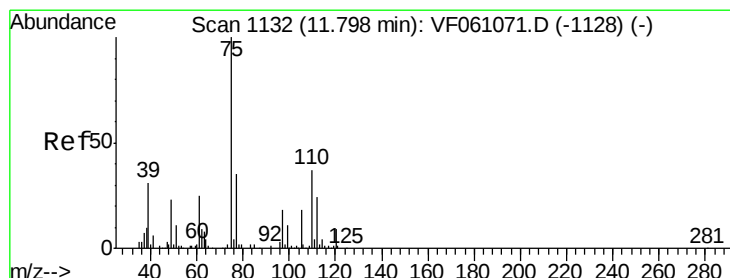
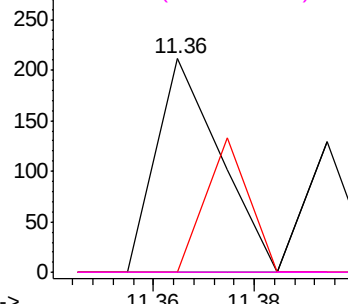


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#76

1,2,3-Trichloropropane

Concen: 14.124 ug/l

RT: 11.63 min Scan# 1115

Delta R.T. -0.17 min

Lab File: VF061151.D

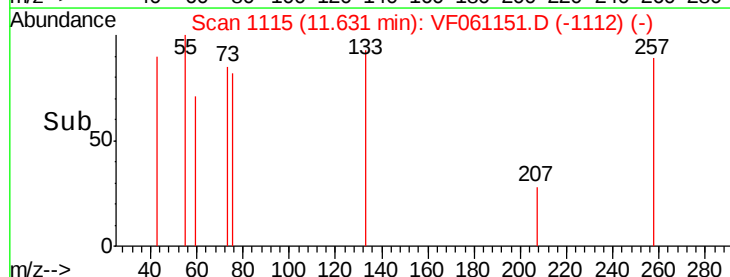
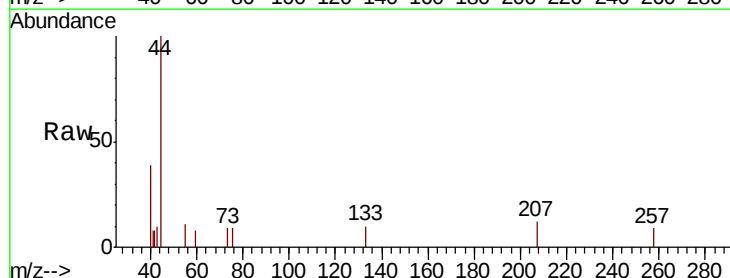
Acq: 22 Dec 2018 18:23

Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

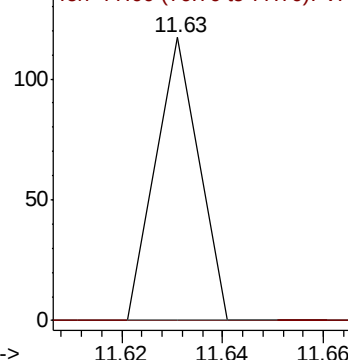
75 100

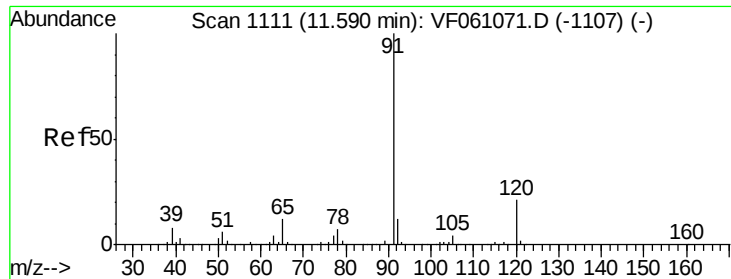
77 0.0 17.6 52.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 1.046 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. 0.13 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

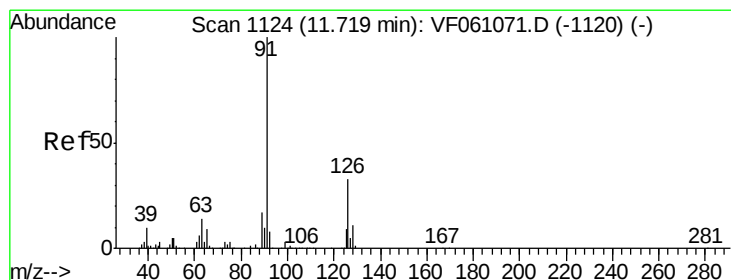
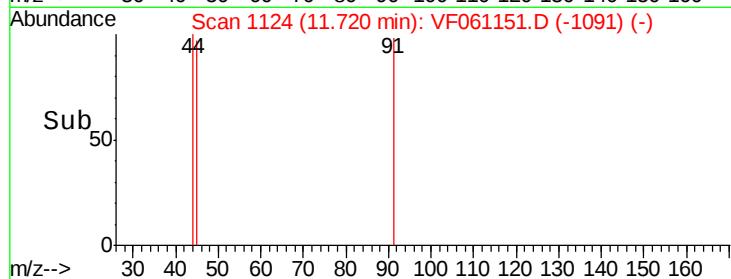
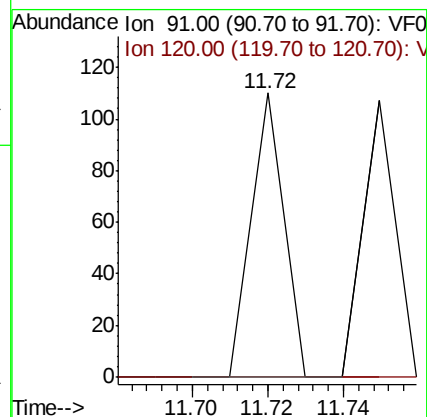
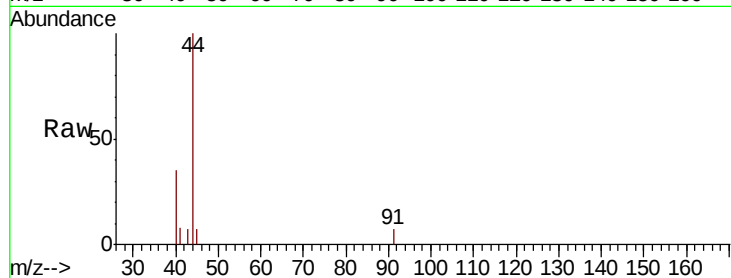
NB-07-122018-BRE

Tgt Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

120 0.0 10.4 31.2#



#79

2-Chlorotoluene

Concen: 2.395 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF061151.D

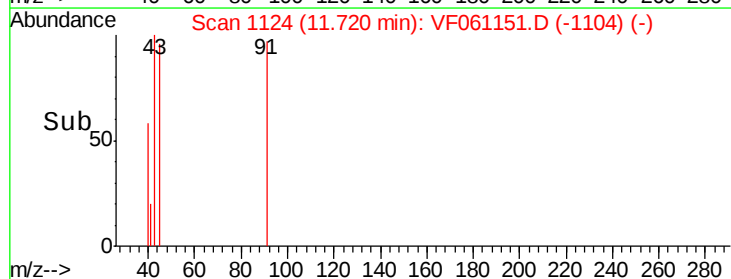
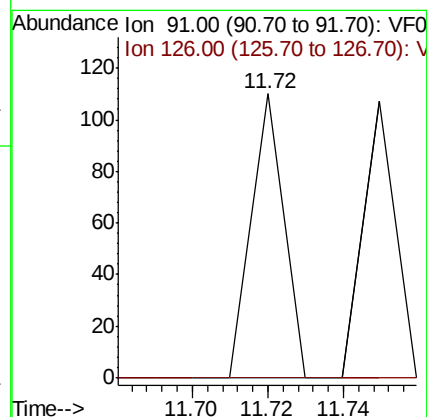
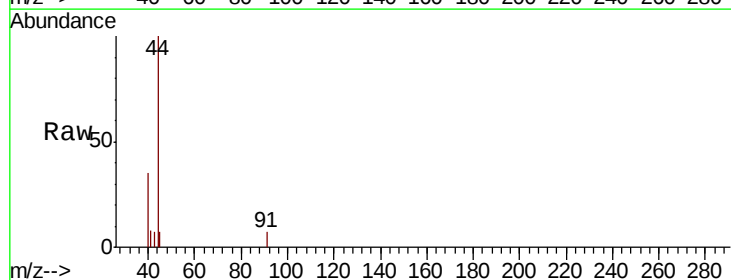
Acq: 22 Dec 2018 18:23

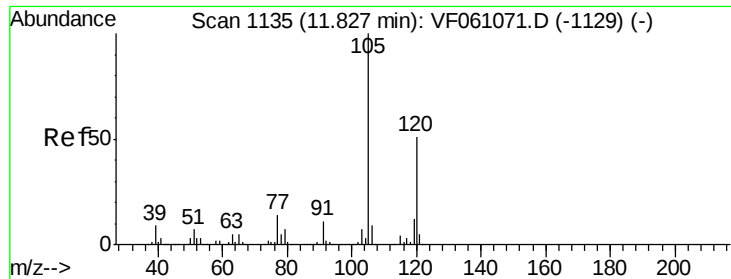
Tgt Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#

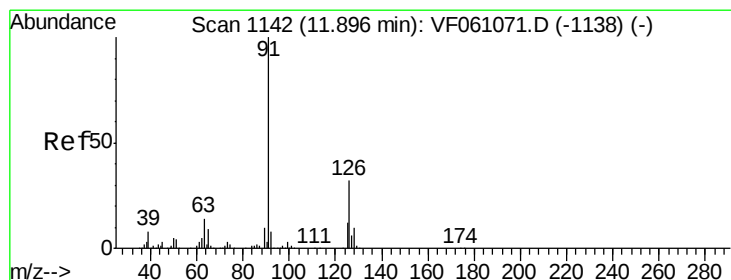
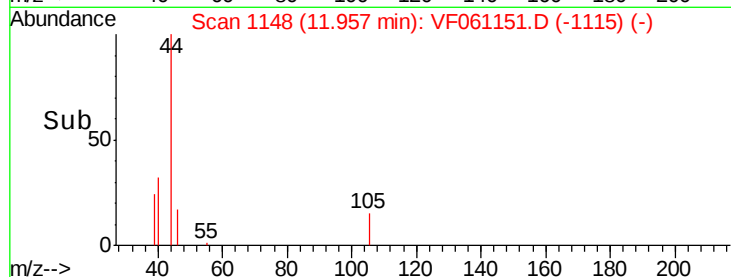
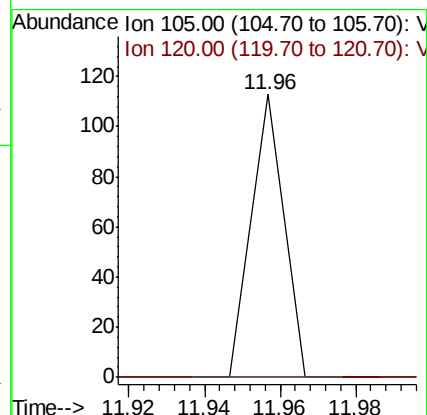
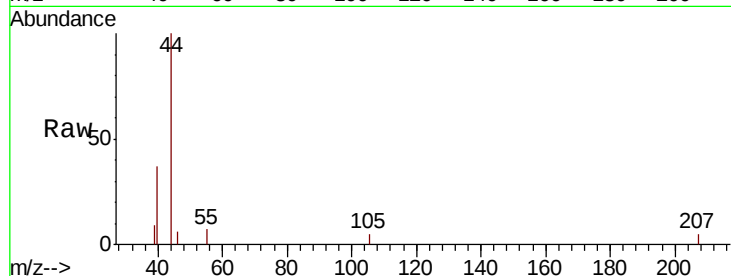




#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.057 ug/l  
 RT: 11.96 min Scan# 1148  
 Delta R.T. 0.13 min  
 Lab File: VF061151.D  
 Acq: 22 Dec 2018 18:23

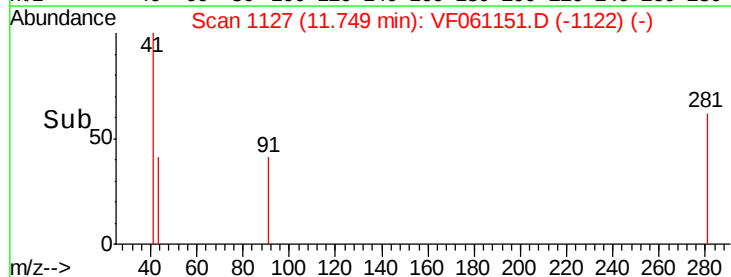
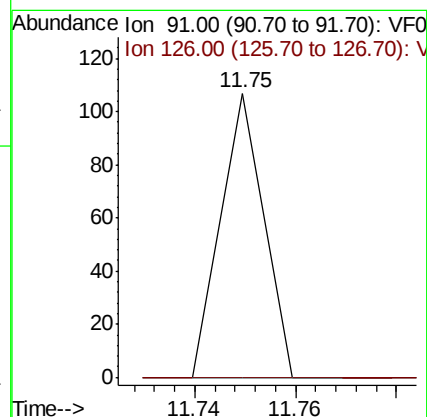
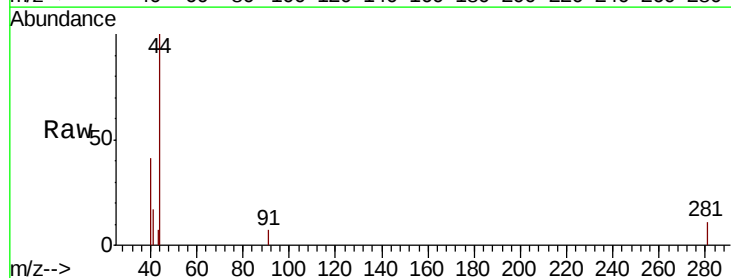
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-07-122018-BRE

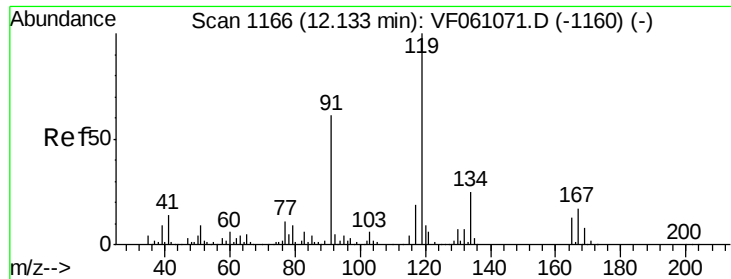
Tgt Ion: 105 Resp: 67  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 25.4 76.4#



#82  
 4-Chlorotoluene  
 Concen: 2.244 ug/l  
 RT: 11.75 min Scan# 1127  
 Delta R.T. -0.15 min  
 Lab File: VF061151.D  
 Acq: 22 Dec 2018 18:23

Tgt Ion: 91 Resp: 63  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 16.0 47.9#





#83

tert-Butylbenzene

Concen: 2.387 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.09 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

Instrument :

MSVOA\_F

ClientSampleId :

NB-07-122018-BRE

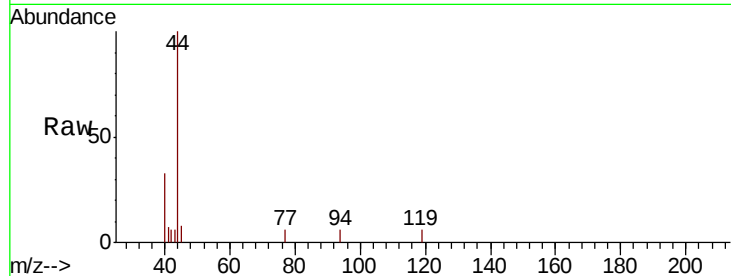
Tgt Ion: 119 Resp: 80

Ion Ratio Lower Upper

119 100

91 0.0 30.5 91.5#

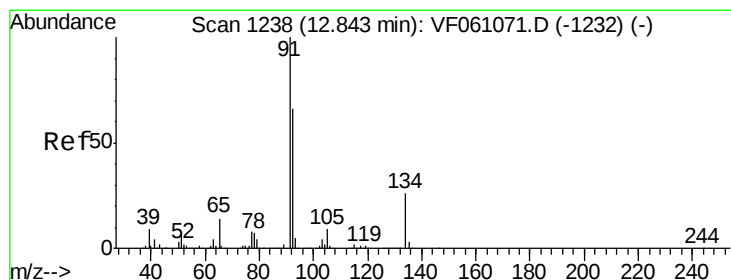
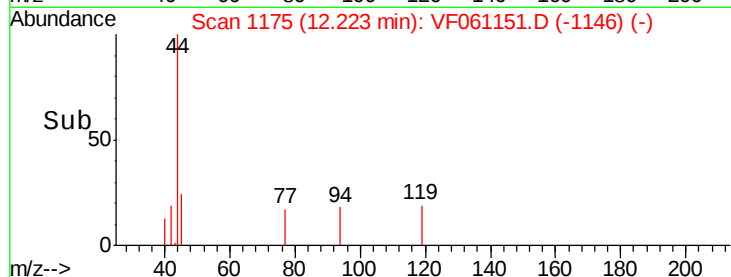
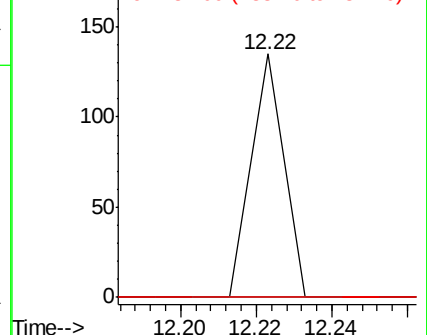
134 0.0 12.4 37.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 2.403 ug/l

RT: 12.77 min Scan# 1230

Delta R.T. -0.08 min

Lab File: VF061151.D

Acq: 22 Dec 2018 18:23

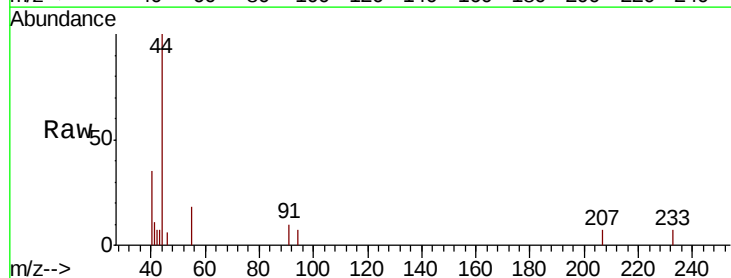
Tgt Ion: 91 Resp: 95

Ion Ratio Lower Upper

91 100

92 0.0 32.8 98.4#

134 0.0 13.2 39.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

