

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042319\  
 Data File : VF062258.D  
 Acq On : 23 Apr 2019 12:26  
 Operator : FY/SY  
 Sample : VF0423SBL01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Apr 24 04:33:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 19 23:52:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 383754   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 582558   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 438971   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 293268   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 201035   | 57.13 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 114.26% |          |
| 35) Dibromofluoromethane    | 4.32  | 113  | 275431   | 54.05 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 108.10% |          |
| 50) Toluene-d8              | 7.72  | 98   | 696841   | 54.02 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 108.04% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 289923   | 58.42 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 116.84% |          |

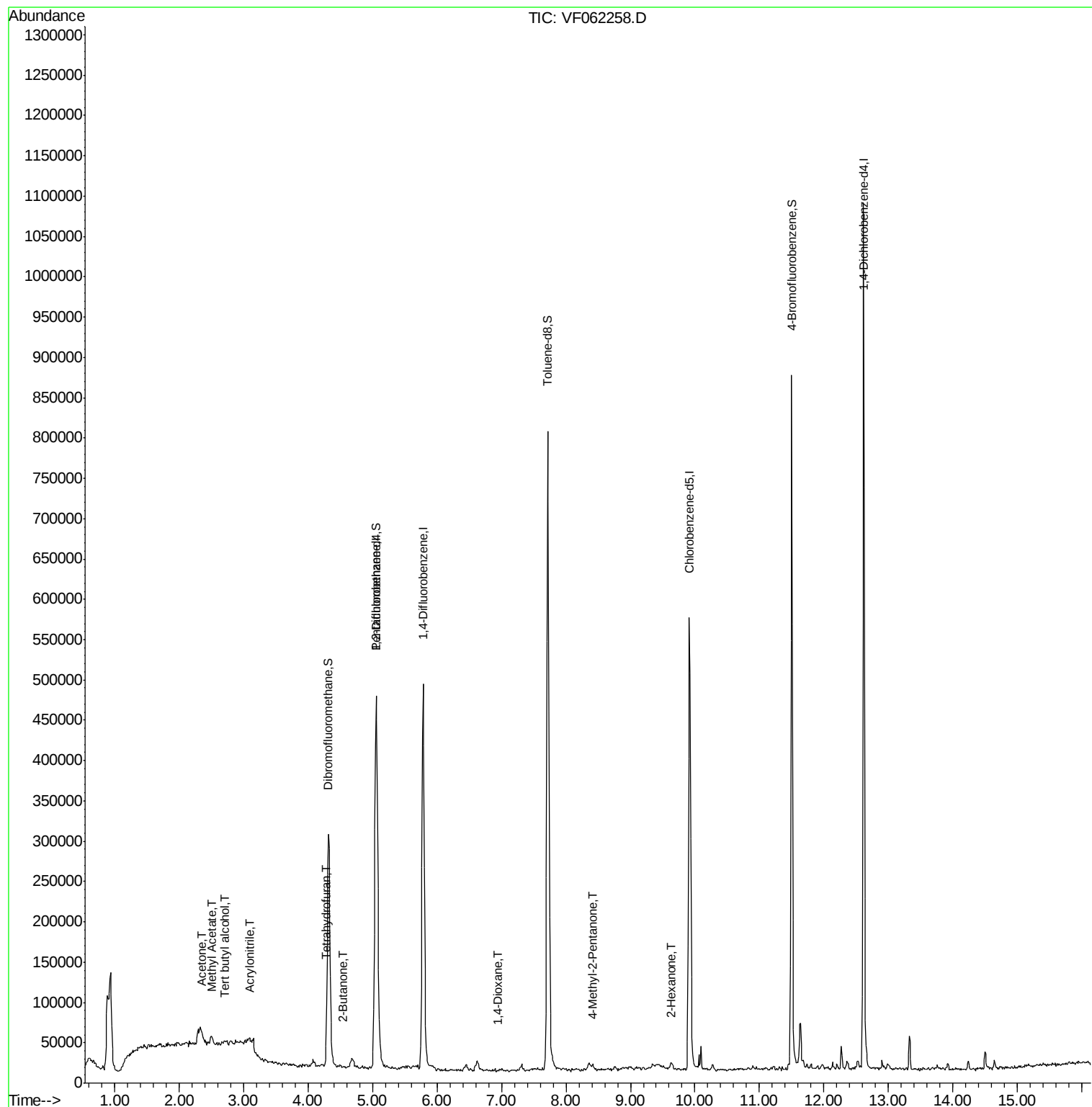
| Target Compounds         | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol   | 2.72  | 59   | 1165     | 4.763     | ug/l # | 79     |
| 13) Acrolein             | 2.07  | 56   | 826      | Below Cal |        | 83     |
| 15) Acrylonitrile        | 3.09  | 53   | 2118     | 2.843     | ug/l # | 38     |
| 16) Acetone              | 2.35  | 43   | 3120     | 3.709     | ug/l # | 80     |
| 18) Methyl Acetate       | 2.49  | 43   | 17949    | 4.608     | ug/l # | 65     |
| 20) Methylene Chloride   | 2.32  | 84   | 11780    | Below Cal | #      | 92     |
| 25) 2-Butanone           | 4.54  | 43   | 2188     | 1.301     | ug/l   | 92     |
| 29) Tetrahydrofuran      | 4.28  | 42   | 1967     | 2.584     | ug/l # | 56     |
| 49) 1,4-Dioxane          | 6.94  | 88   | 69       | 2.641     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone | 8.42  | 43   | 5513     | 2.138     | ug/l # | 87     |
| 59) 2-Hexanone           | 9.63  | 43   | 9536     | 6.065     | ug/l   | 87     |
| 74) N-amyl acetate       | 11.45 | 43   | 5836     | Below Cal | #      | 77     |
| 89) n-Butylbenzene       | 12.90 | 91   | 4332     | Below Cal |        | 90     |

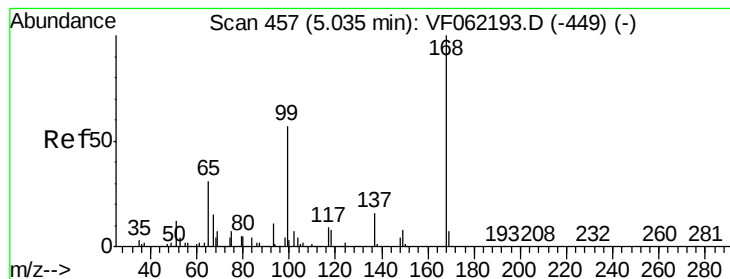
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042319\  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Apr 24 04:33:55 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 19 23:52:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

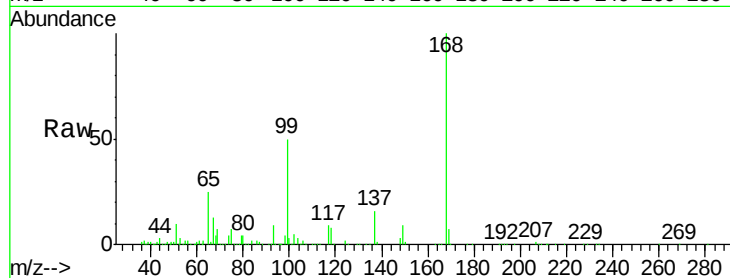
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion:168 Resp: 383754

Ion Ratio Lower Upper

168 100

99 50.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

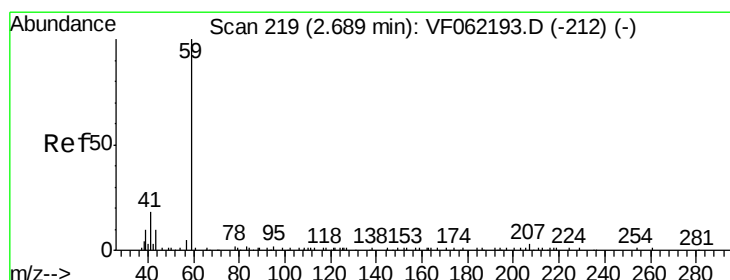
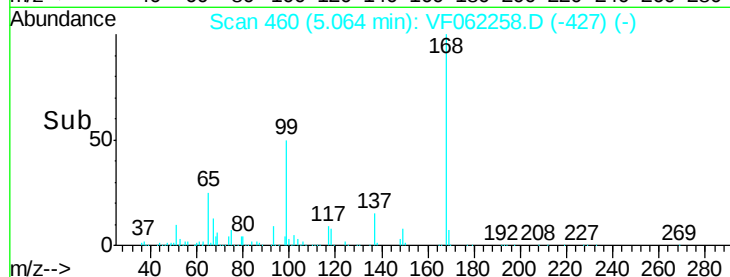
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.763 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.03 min

Lab File: VF062258.D

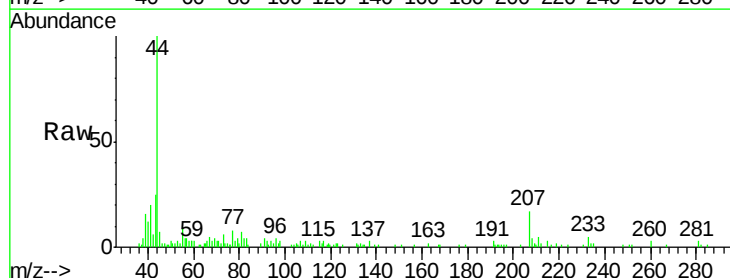
Acq: 23 Apr 2019 12:26

Tgt Ion: 59 Resp: 1165

Ion Ratio Lower Upper

59 100

57 19.6 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

1000

800

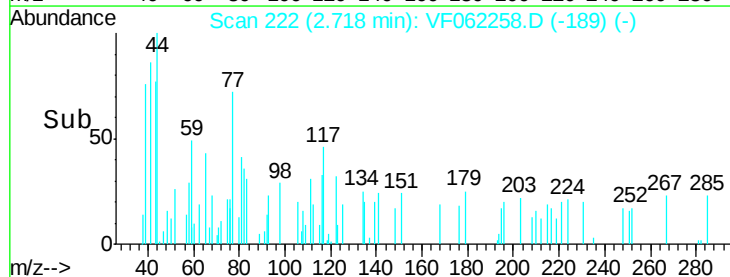
600

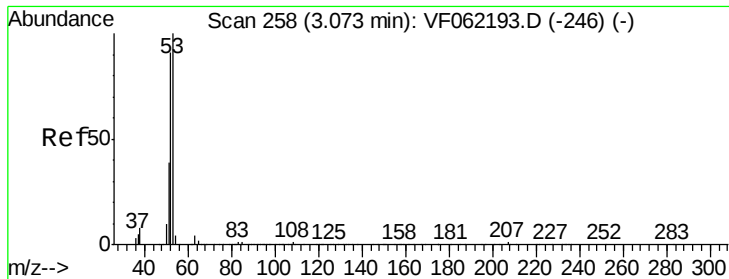
400

200

0

Time-->





#15

Acrylonitrile

Concen: 2.843 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

Instrument :  
MSVOA\_F  
ClientSampleId :

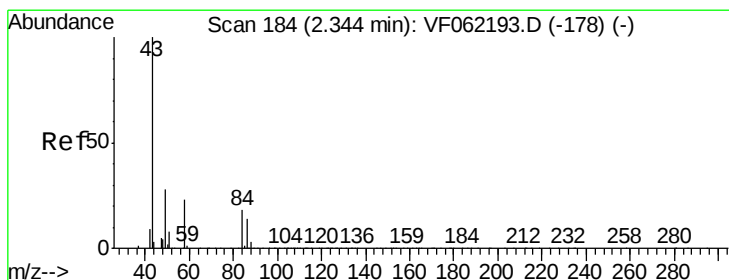
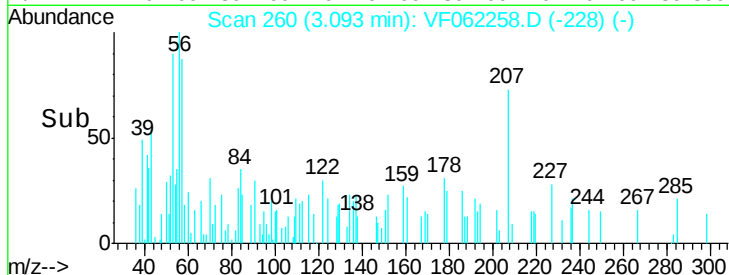
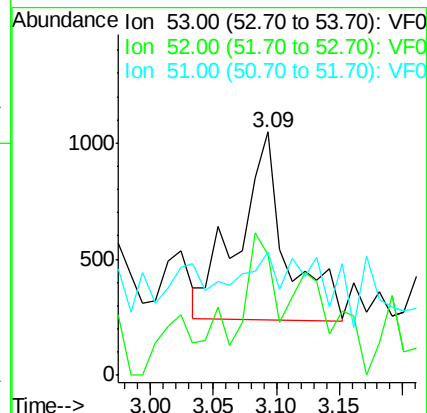
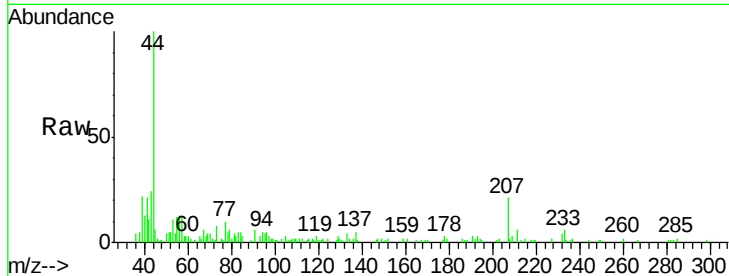
Tot Ion: 53 Resp: 2118

Ion Ratio Lower Upper

53 100

52 31.0 69.5 104.3#

51 0.0 31.8 47.8#



#16

Acetone

Concen: 3.709 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062258.D

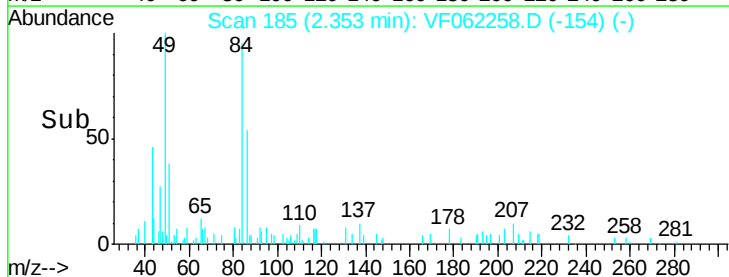
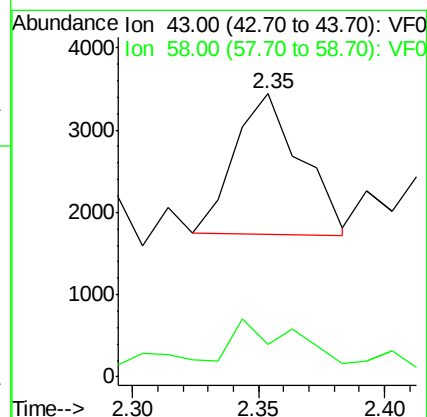
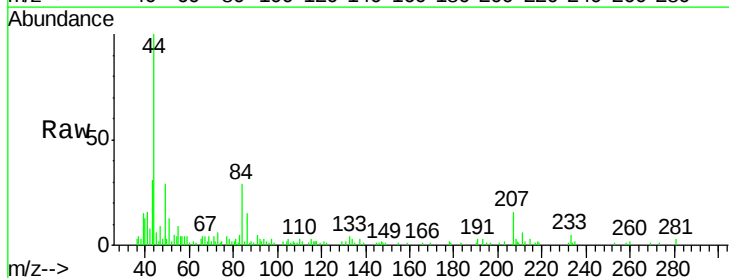
Acq: 23 Apr 2019 12:26

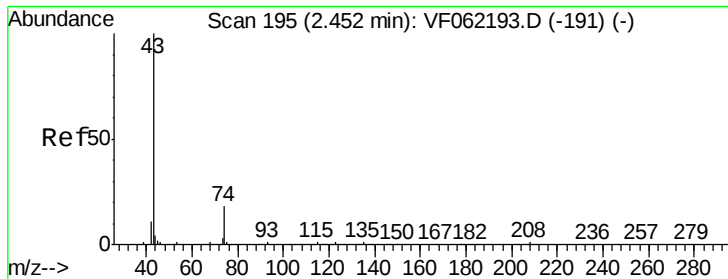
Tgt Ion: 43 Resp: 3120

Ion Ratio Lower Upper

43 100

58 13.9 18.8 28.2#

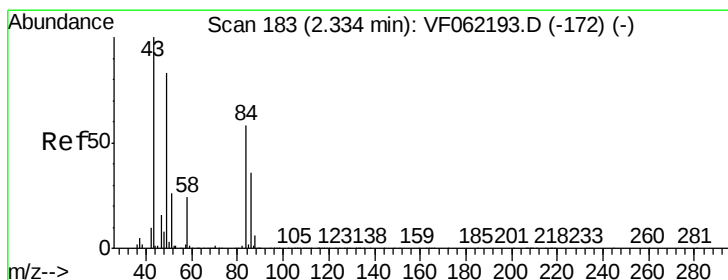
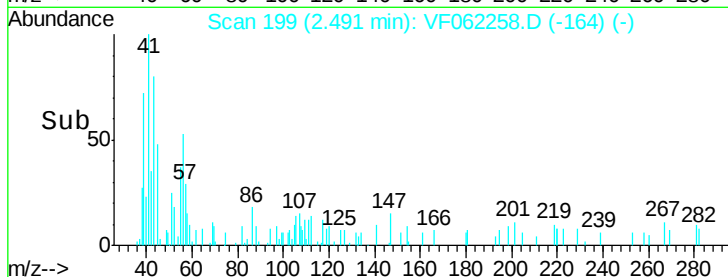
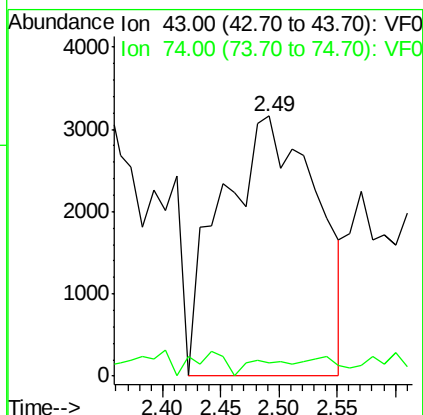
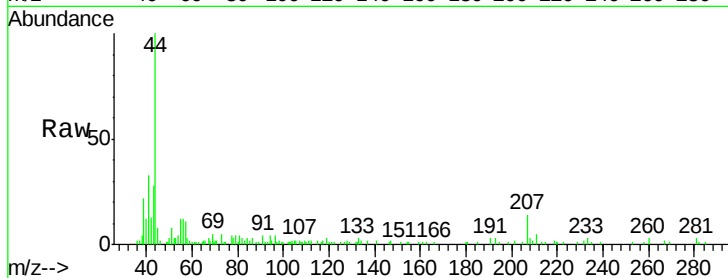




#18  
Methyl Acetate  
Concen: 4.608 ug/l  
RT: 2.49 min Scan# 199  
Delta R.T. 0.04 min  
Lab File: VF062258.D  
Acq: 23 Apr 2019 12:26

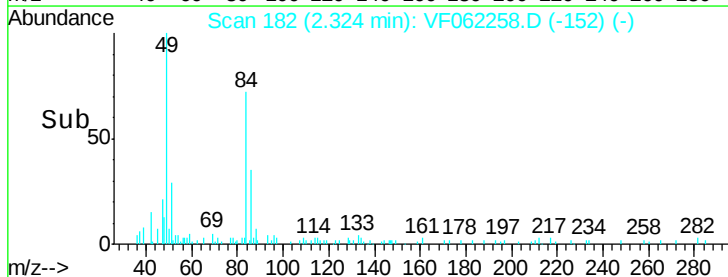
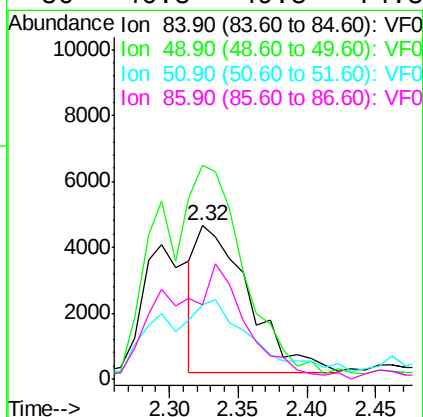
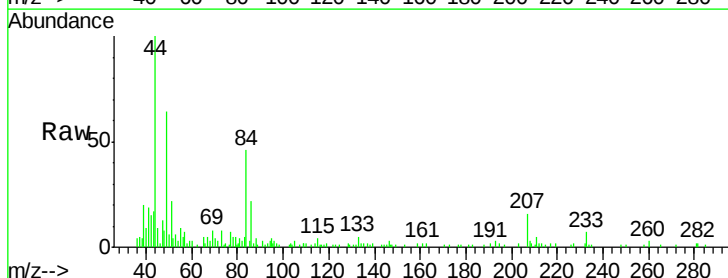
Instrument :  
MSVOA\_F  
ClientSampled :

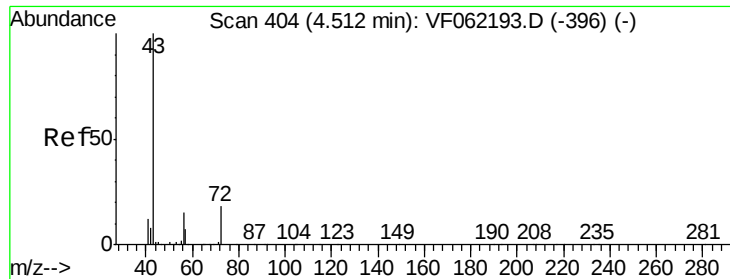
Tot Ion: 43 Resp: 17949  
Ion Ratio Lower Upper  
43 100  
74 2.8 14.5 21.7#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.32 min Scan# 182  
Delta R.T. -0.01 min  
Lab File: VF062258.D  
Acq: 23 Apr 2019 12:26

Tgt Ion: 84 Resp: 11780  
Ion Ratio Lower Upper  
84 100  
49 139.9 114.0 171.0  
51 40.6 37.0 55.4  
86 46.8 49.8 74.8#





#25

2-Butanone

Concen: 1.301 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.03 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

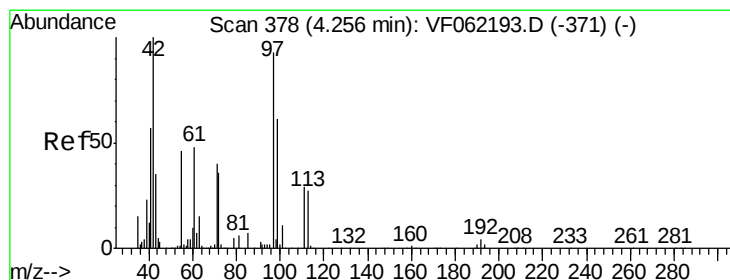
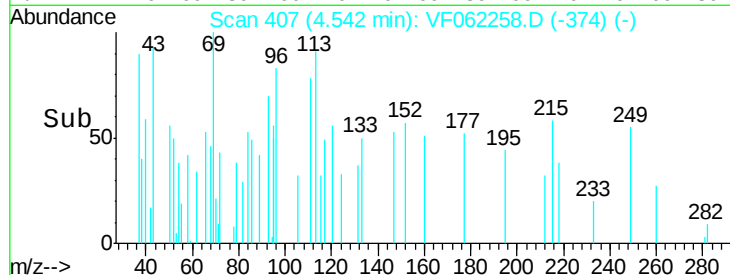
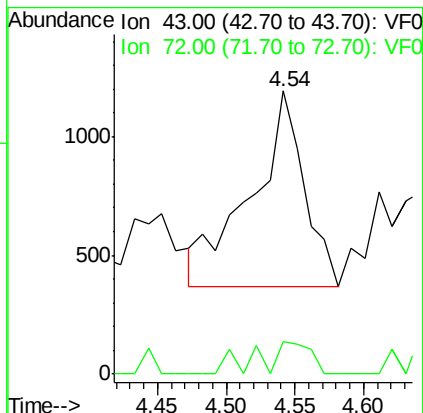
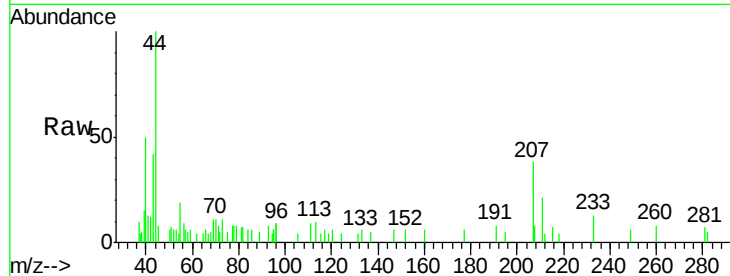
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 43 Resp: 2188

Ion Ratio Lower Upper

43 100

72 16.3 16.1 24.1



#29

Tetrahydrofuran

Concen: 2.584 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

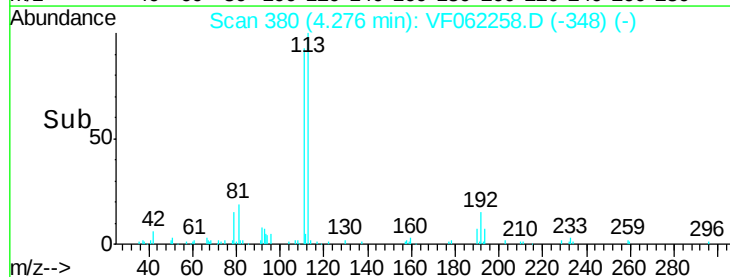
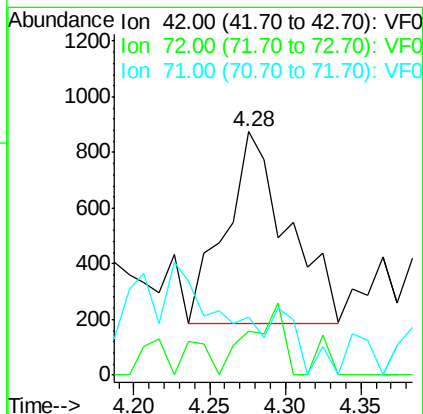
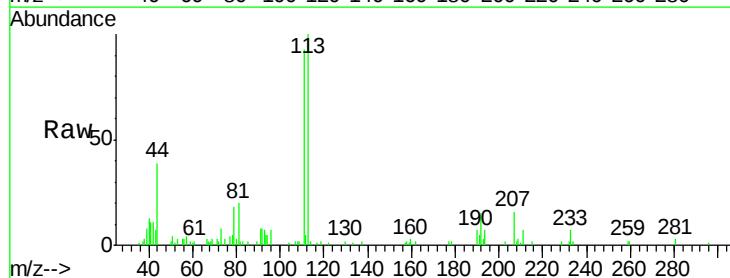
Tgt Ion: 42 Resp: 1967

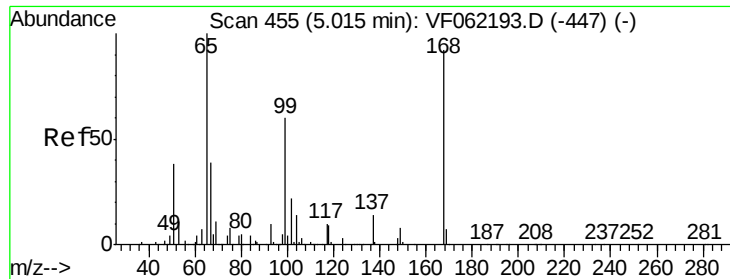
Ion Ratio Lower Upper

42 100

72 20.2 28.6 43.0#

71 0.0 29.2 43.8#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

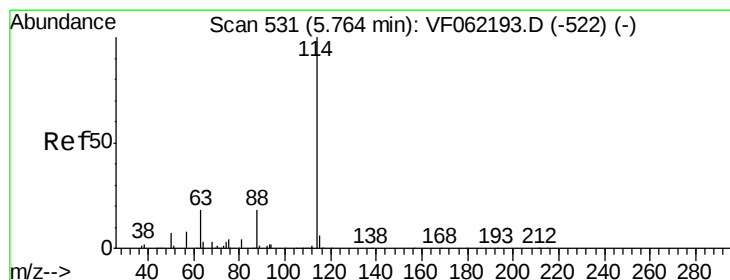
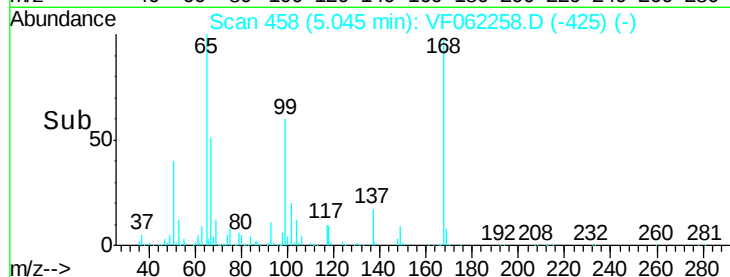
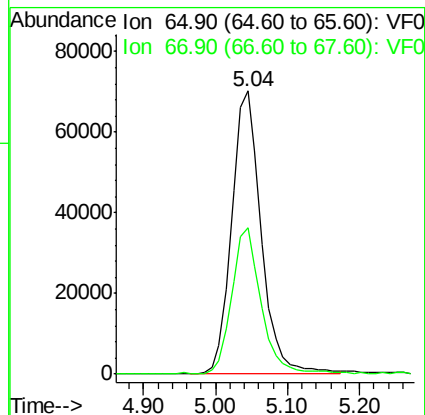
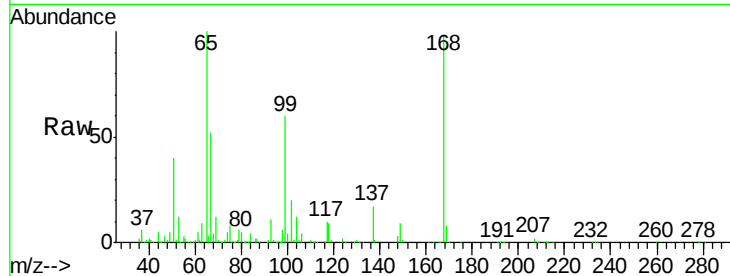
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 65 Resp: 201035

Ion Ratio Lower Upper

65 100

67 50.5 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

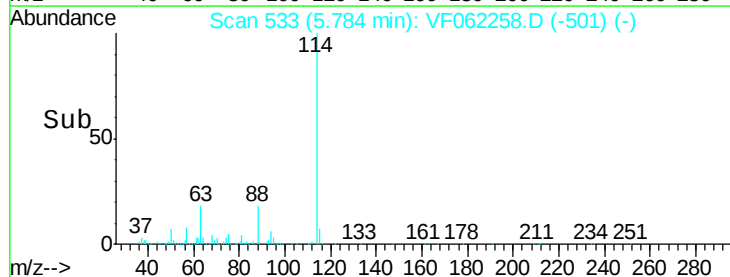
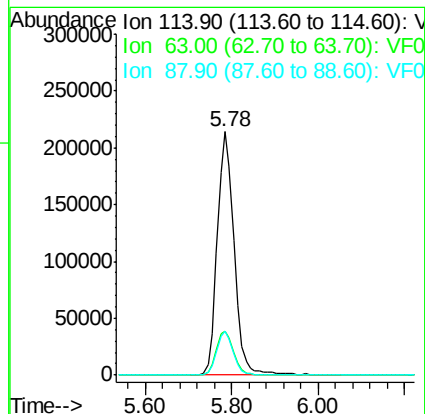
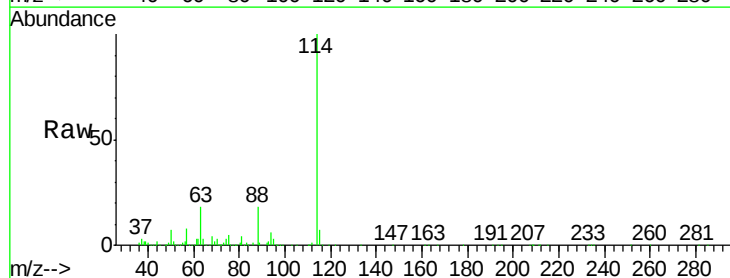
Tgt Ion: 114 Resp: 582558

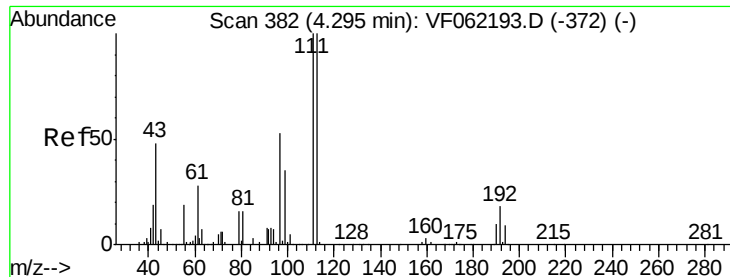
Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

88 18.1 0.0 35.8

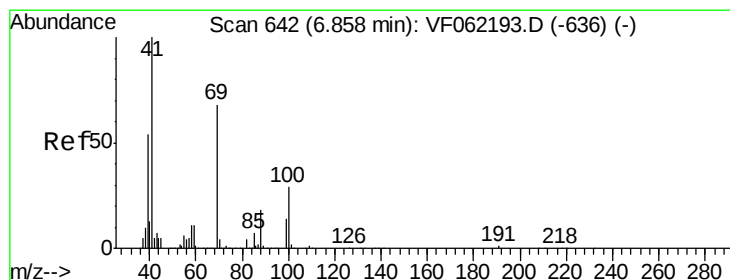
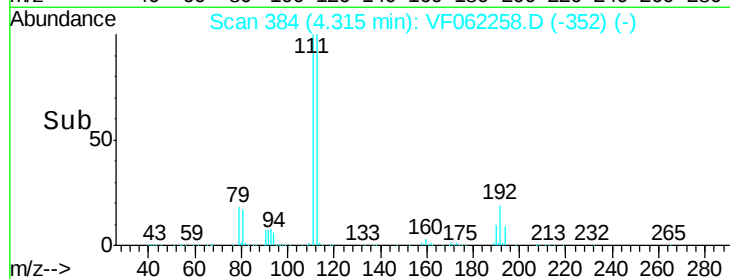
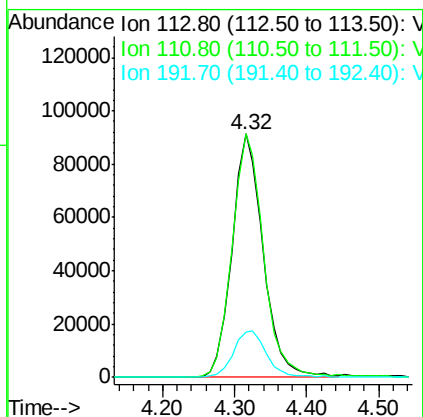
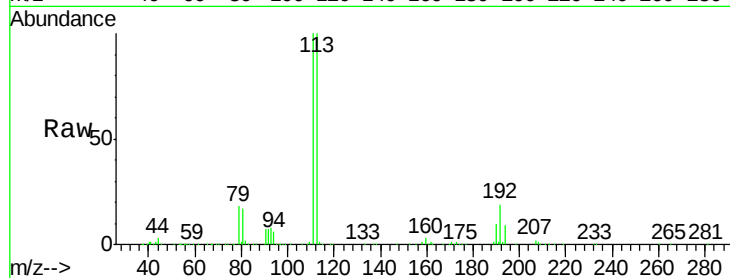




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 4.32 min Scan# 384  
 Delta R.T. 0.02 min  
 Lab File: VF062258.D  
 Acq: 23 Apr 2019 12:26

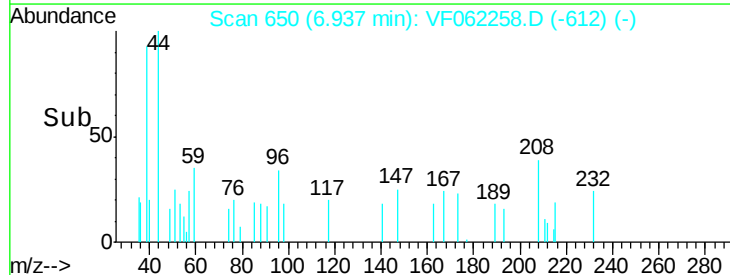
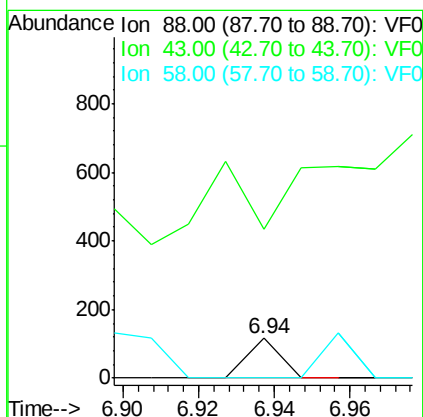
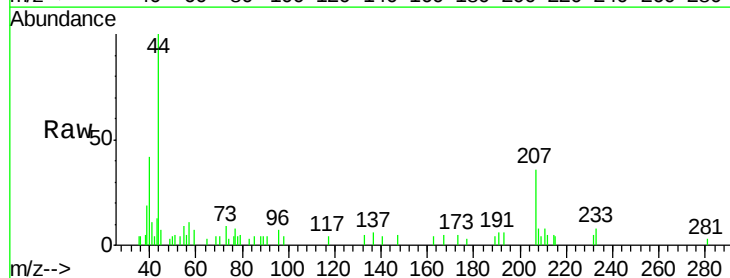
Instrument :  
 MSVOA\_F  
 ClientSampleId :

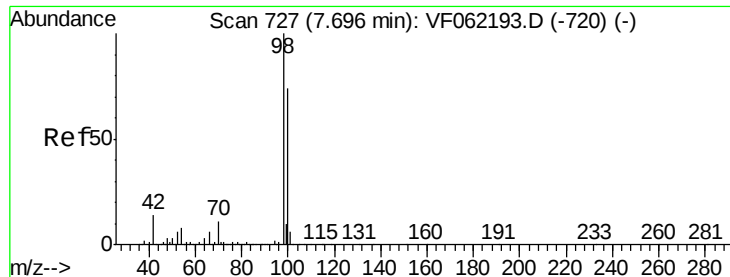
Tot Ion:113 Resp: 275431  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 81.1 121.7  
 192 20.6 14.7 22.1



#49  
 1,4-Dioxane  
 Concen: 2.641 ug/l  
 RT: 6.94 min Scan# 650  
 Delta R.T. 0.08 min  
 Lab File: VF062258.D  
 Acq: 23 Apr 2019 12:26

Tgt Ion: 88 Resp: 69  
 Ion Ratio Lower Upper  
 88 100  
 43 3001.4 36.9 55.3#  
 58 0.0 56.8 85.2#





#50

Toluene-d8

Concen: 2.641 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

Instrument :

MSVOA\_F

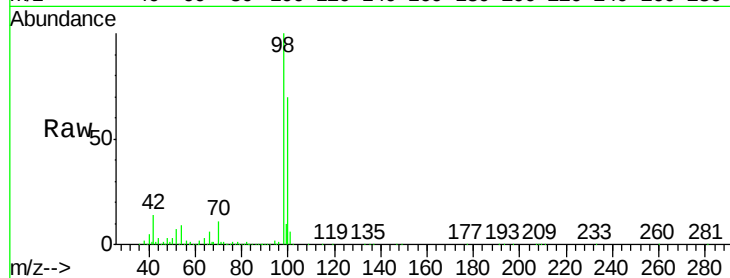
ClientSampleId :

Tot Ion: 98 Resp: 696841

Ion Ratio Lower Upper

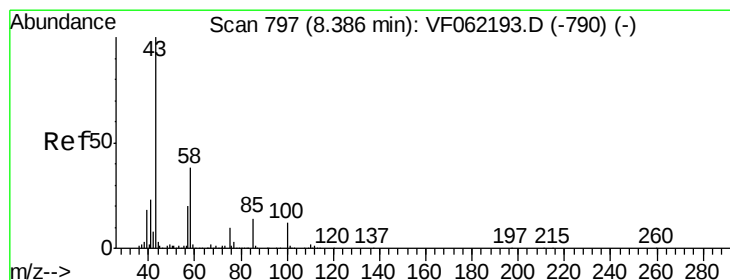
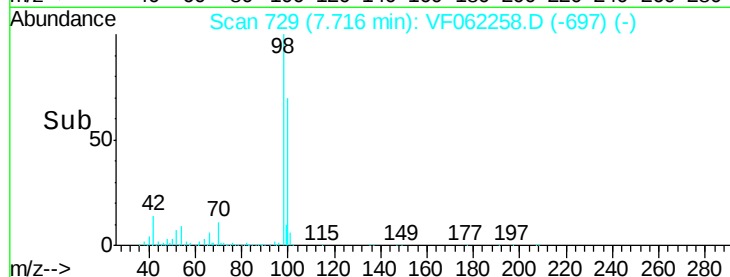
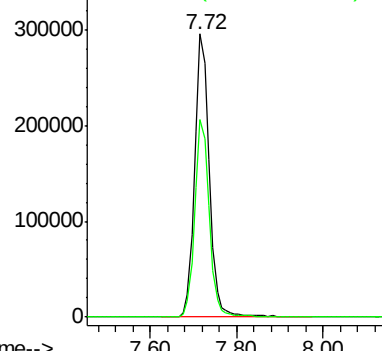
98 100

100 68.9 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 2.138 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF062258.D

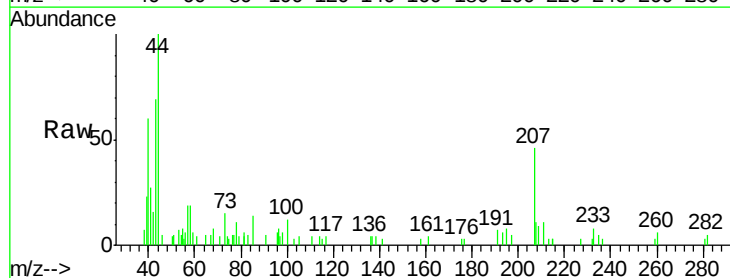
Acq: 23 Apr 2019 12:26

Tgt Ion: 43 Resp: 5513

Ion Ratio Lower Upper

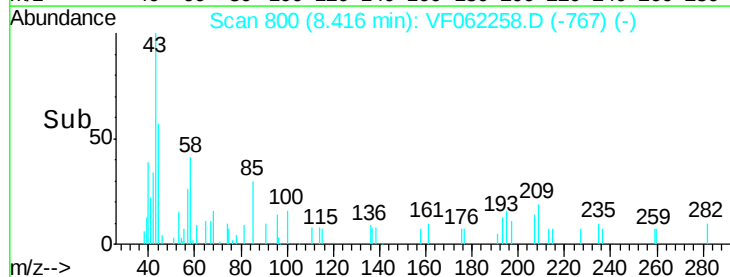
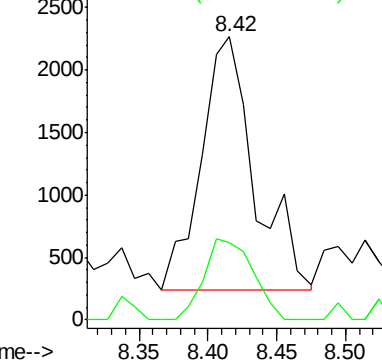
43 100

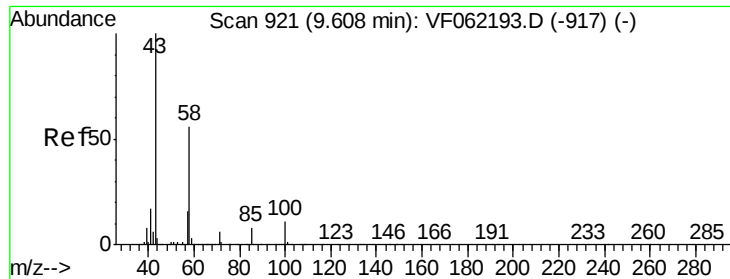
58 28.9 29.3 43.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

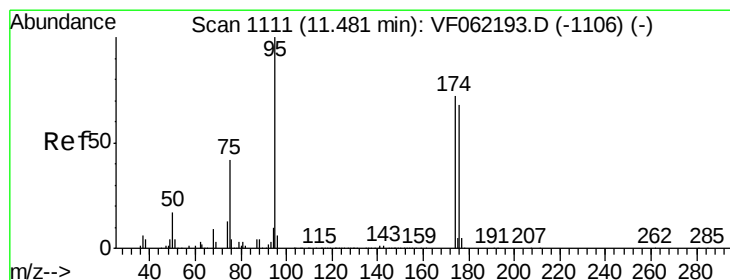
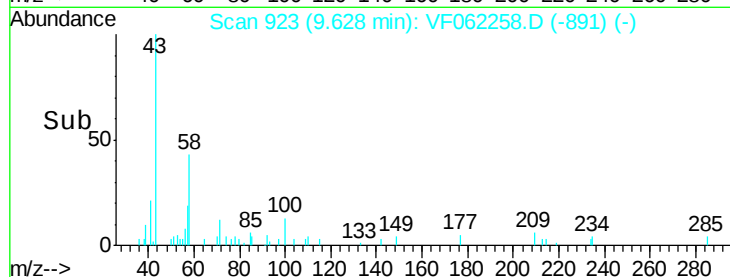
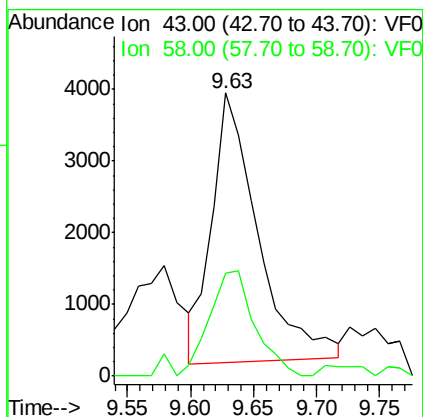
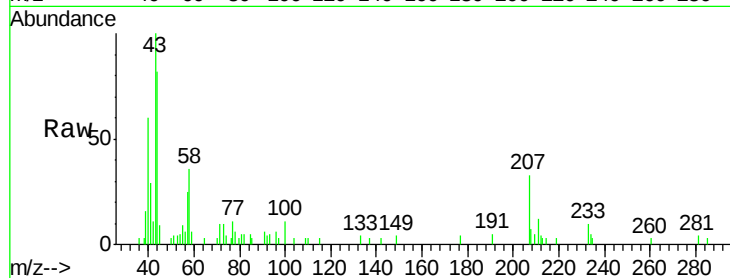




#59  
2-Hexanone  
Concen: 6.065 ug/l  
RT: 9.63 min Scan# 923  
Delta R.T. 0.02 min  
Lab File: VF062258.D  
Acq: 23 Apr 2019 12:26

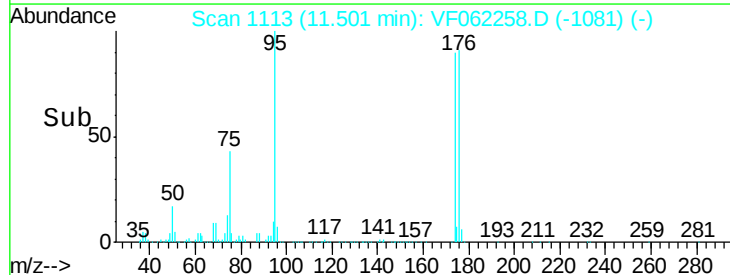
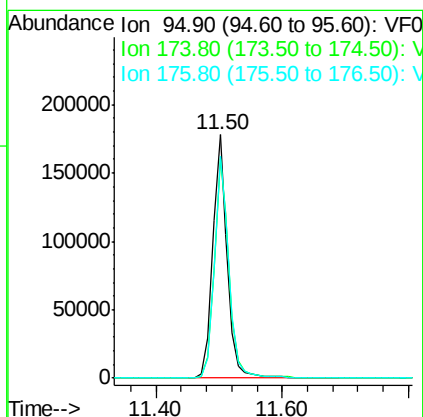
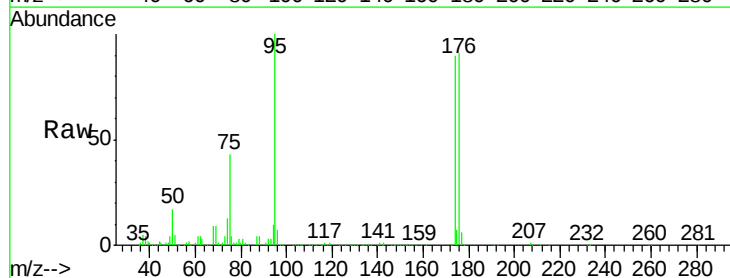
Instrument :  
MSVOA\_F  
ClientSampled :

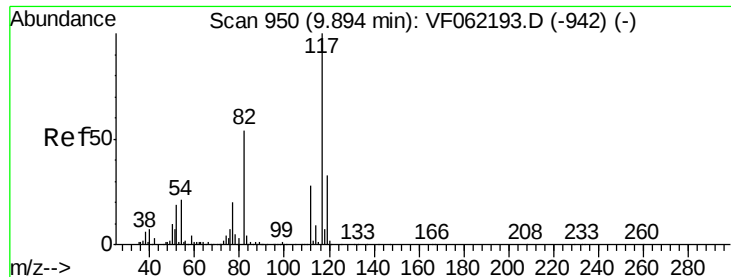
Tot Ion: 43 Resp: 9536  
Ion Ratio Lower Upper  
43 100  
58 40.7 24.6 74.0



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 11.50 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VF062258.D  
Acq: 23 Apr 2019 12:26

Tgt Ion: 95 Resp: 289923  
Ion Ratio Lower Upper  
95 100  
174 91.5 0.0 159.4  
176 92.3 0.0 155.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

Instrument :

MSVOA\_F

ClientSampled :

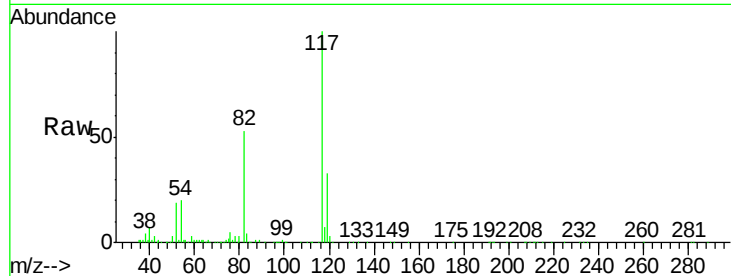
Tot Ion:117 Resp: 438971

Ion Ratio Lower Upper

117 100

82 53.4 43.2 64.8

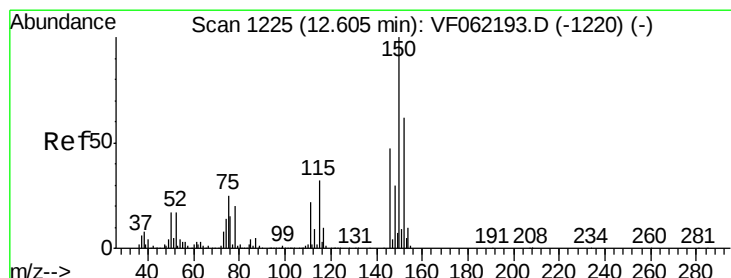
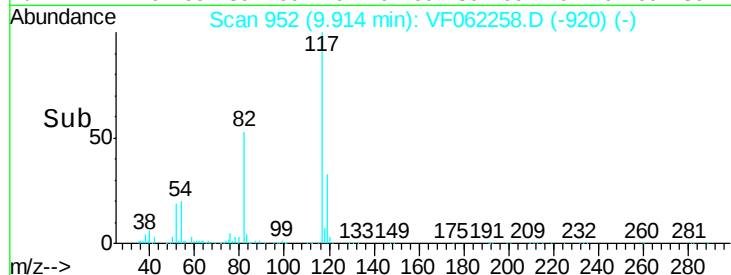
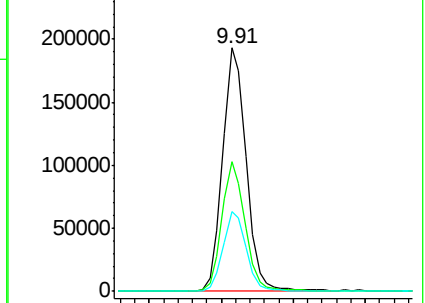
119 32.6 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

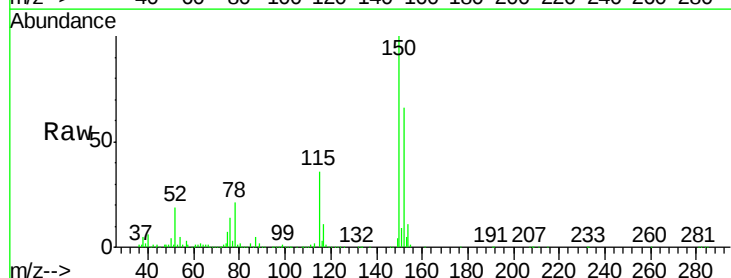
Tgt Ion:152 Resp: 293268

Ion Ratio Lower Upper

152 100

115 53.7 27.8 83.3

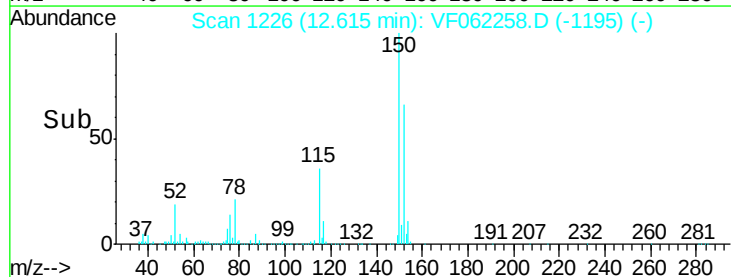
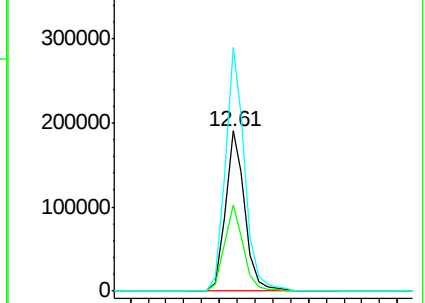
150 152.0 0.0 341.8

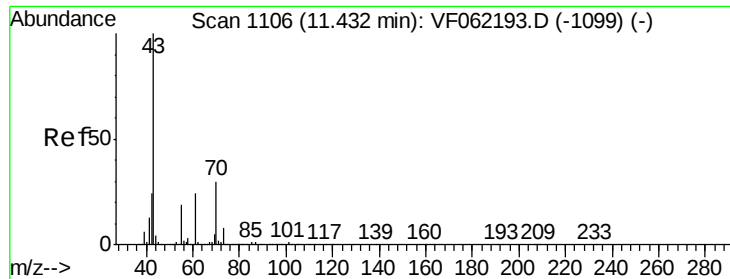


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 43 Resp: 5836

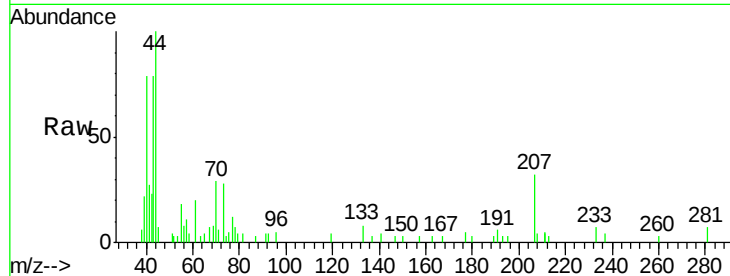
Ion Ratio Lower Upper

43 100

70 26.0 27.0 40.4#

55 19.0 15.7 23.5

61 0.0 20.8 31.2#

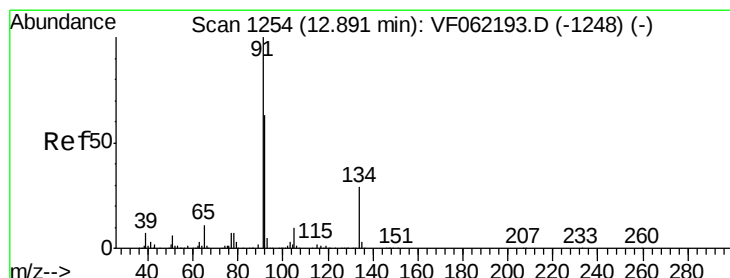
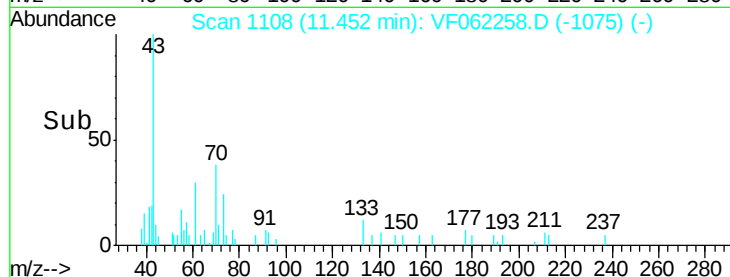
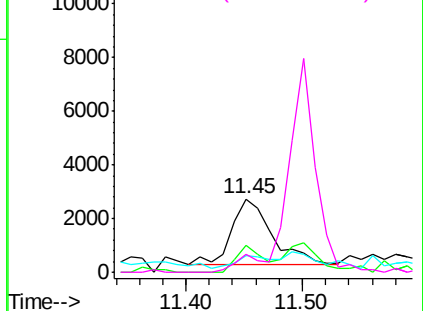


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062258.D

Acq: 23 Apr 2019 12:26

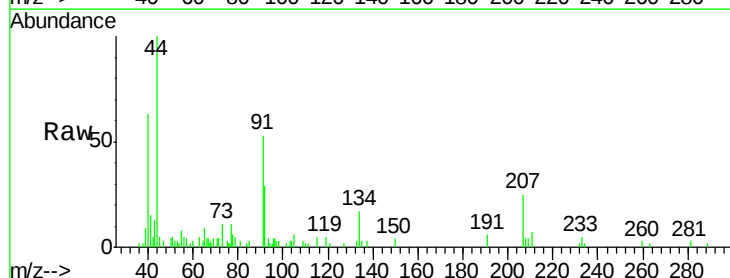
Tgt Ion: 91 Resp: 4332

Ion Ratio Lower Upper

91 100

92 55.4 31.2 93.6

134 19.2 13.1 39.1



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

