

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042319\  
 Data File : VF062272.D  
 Acq On : 23 Apr 2019 19:15  
 Operator : FY/SY  
 Sample : K2515-10  
 Misc : 5.24g/5mL/MSVOA F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Apr 24 06:45:18 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

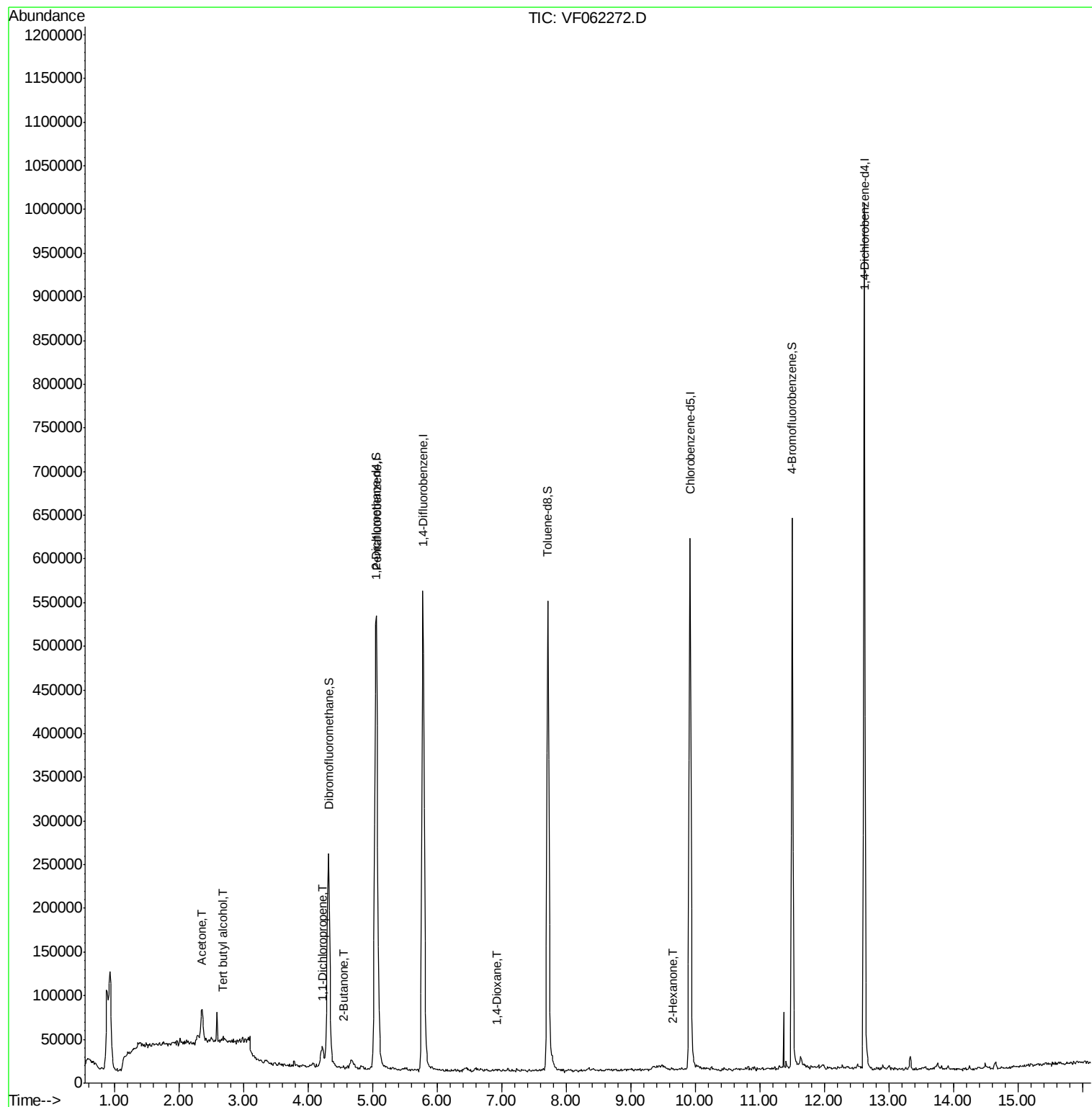
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene       | 5.06  | 168  | 446256   | 50.00     | ug/l   | 0.03     |
| 34) 1,4-Difluorobenzene     | 5.78  | 114  | 647319   | 50.00     | ug/l   | 0.02     |
| 63) Chlorobenzene-d5        | 9.92  | 117  | 497177   | 50.00     | ug/l   | 0.03     |
| 72) 1,4-Dichlorobenzene-d4  | 12.62 | 152  | 298252   | 50.00     | ug/l   | 0.02     |
| System Monitoring Compounds |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 190684   | 46.60     | ug/l   | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 93.20% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 241075   | 42.58     | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 85.16% |          |
| 50) Toluene-d8              | 7.71  | 98   | 503506   | 35.13     | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 70.26% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 230439   | 41.79     | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 83.58% |          |
| Target Compounds            |       |      |          |           |        |          |
|                             |       |      |          |           | Qvalue |          |
| 11) Tert butyl alcohol      | 2.68  | 59   | 4113     | 14.460    | ug/l # | 65       |
| 13) Acrolein                | 2.07  | 56   | 645      | Below Cal | #      | 52       |
| 16) Acetone                 | 2.36  | 43   | 43015    | 43.979    | ug/l   | 96       |
| 18) Methyl Acetate          | 2.51  | 43   | 1663     | Below Cal | #      | 74       |
| 20) Methylene Chloride      | 2.35  | 84   | 10404    | Below Cal | #      | 86       |
| 25) 2-Butanone              | 4.55  | 43   | 3028     | 1.548     | ug/l # | 56       |
| 36) 1,1-Dichloropropene     | 4.22  | 75   | 47723    | 6.149     | ug/l # | 43       |
| 49) 1,4-Dioxane             | 6.93  | 88   | 67       | 2.308     | ug/l # | 38       |
| 59) 2-Hexanone              | 9.65  | 43   | 3991     | 2.370     | ug/l   | 72       |
| 74) N-amyl acetate          | 11.44 | 43   | 1964     | Below Cal | #      | 48       |
| 89) n-Butylbenzene          | 12.91 | 91   | 1886     | Below Cal |        | 74       |

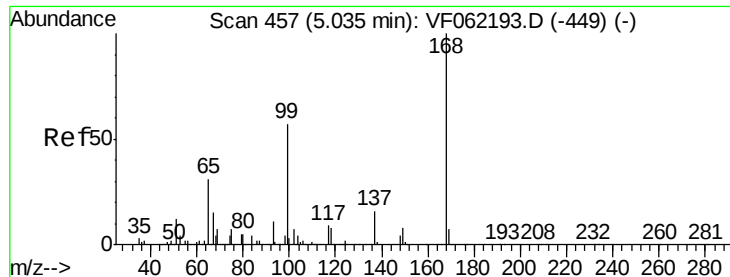
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 459

Delta R.T. 0.03 min

Lab File: VF062272.D

Acq: 23 Apr 2019 19:15

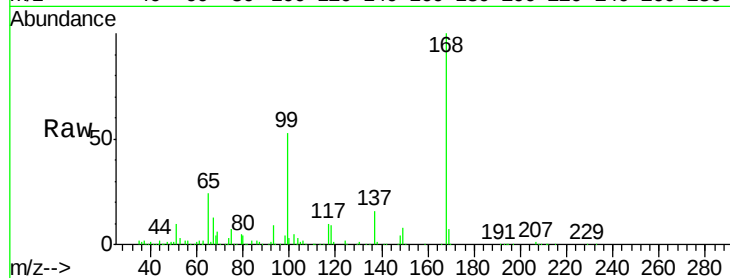
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 446256

Ion Ratio Lower Upper

168 100

99 52.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

150000

100000

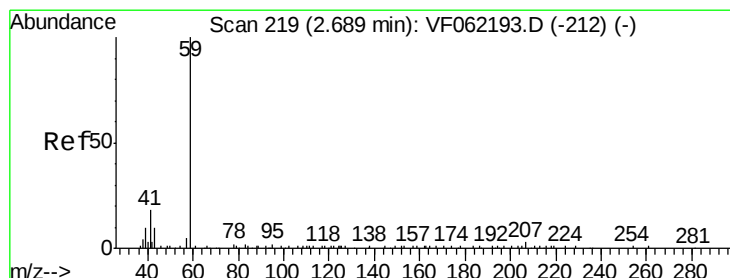
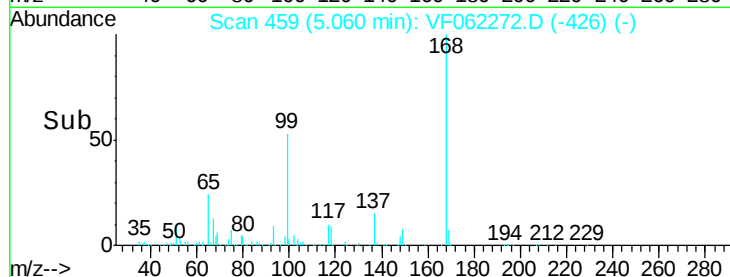
50000

0

5.06

5.20

Time-->



#11

Tert butyl alcohol

Concen: 14.460 ug/l

RT: 2.68 min Scan# 218

Delta R.T. -0.00 min

Lab File: VF062272.D

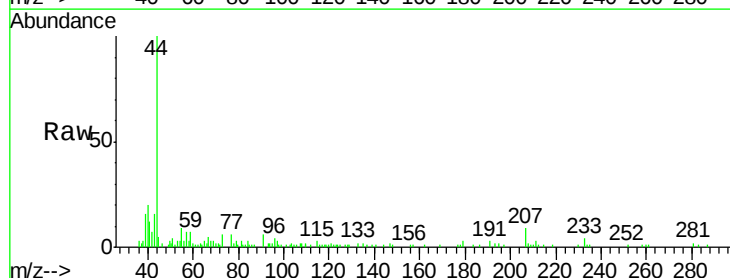
Acq: 23 Apr 2019 19:15

Tgt Ion: 59 Resp: 4113

Ion Ratio Lower Upper

59 100

57 24.9 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

1500

1000

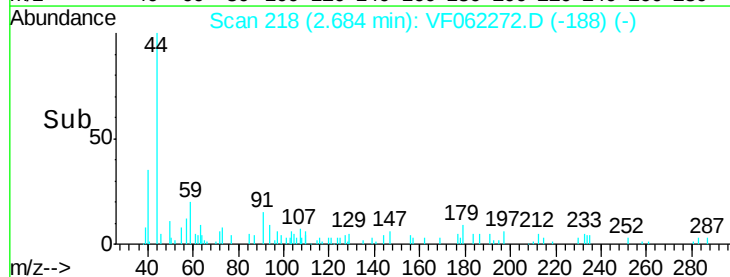
500

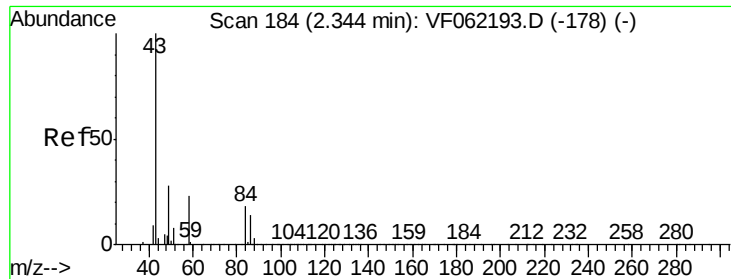
0

2.68

2.80

Time-->

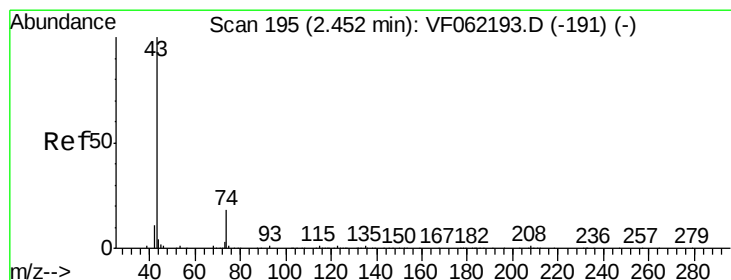
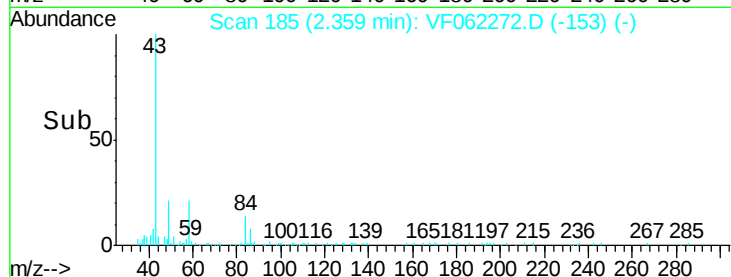
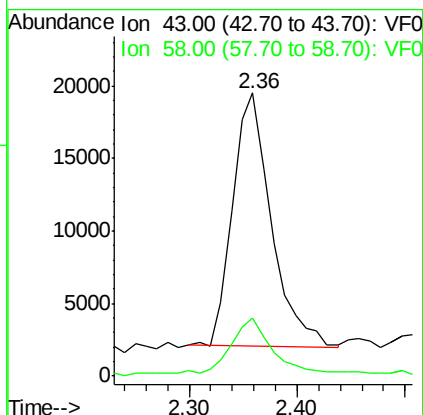
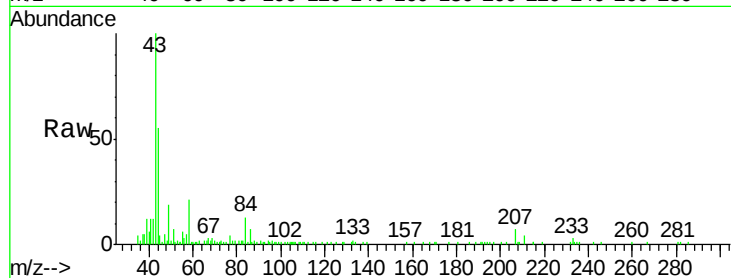




#16  
Acetone  
Concen: 43.979 ug/l  
RT: 2.36 min Scan# 185  
Delta R.T. 0.02 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

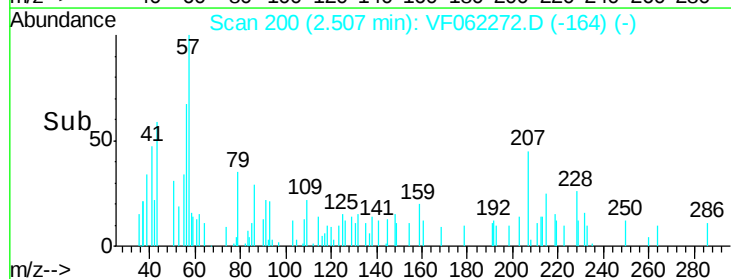
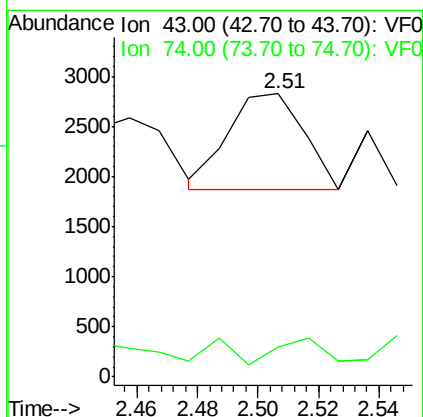
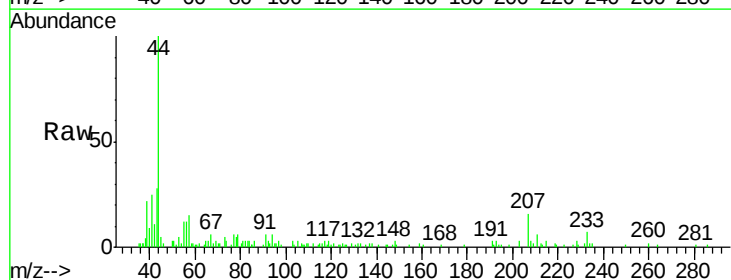
Instrument :  
MSVOA\_F  
ClientSampleId :

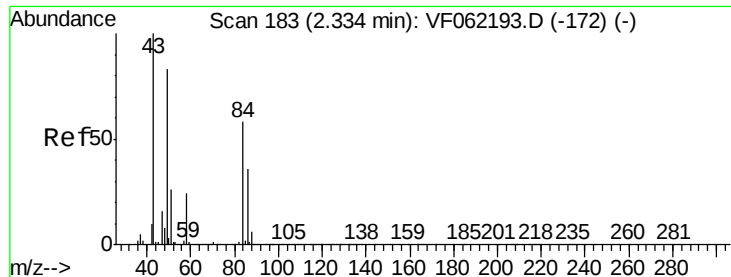
Tot Ion: 43 Resp: 43015  
Ion Ratio Lower Upper  
43 100  
58 21.6 18.8 28.2



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 2.51 min Scan# 200  
Delta R.T. 0.06 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

Tgt Ion: 43 Resp: 1663  
Ion Ratio Lower Upper  
43 100  
74 29.6 14.5 21.7#

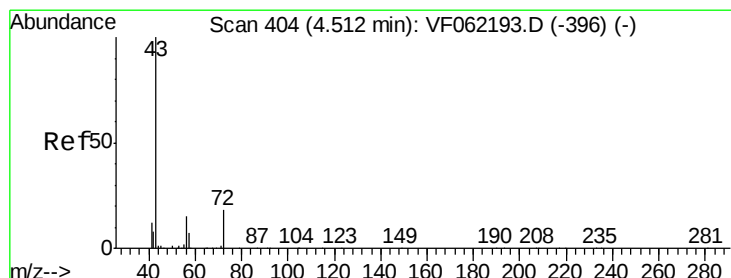
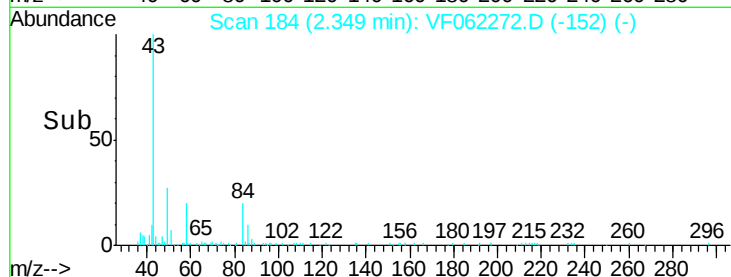
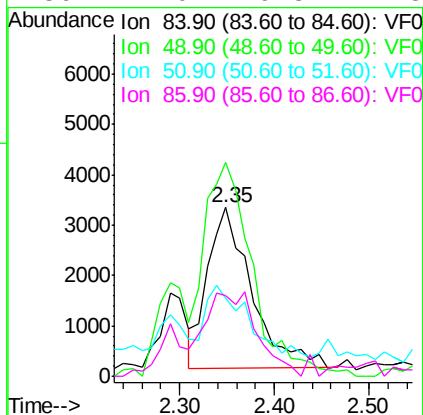
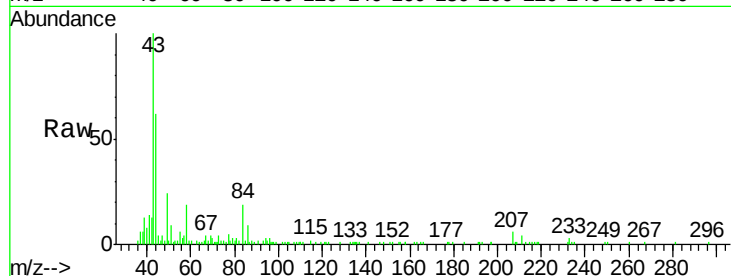




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.35 min Scan# 184  
Delta R.T. 0.02 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

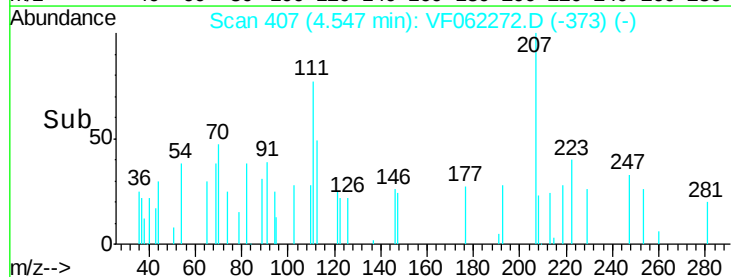
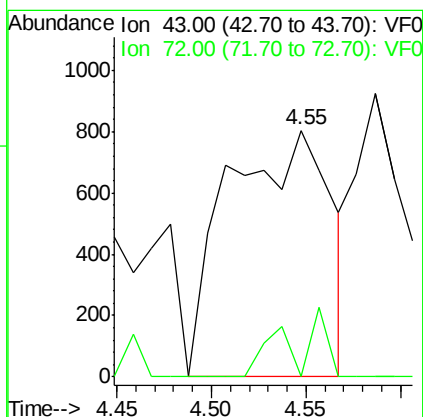
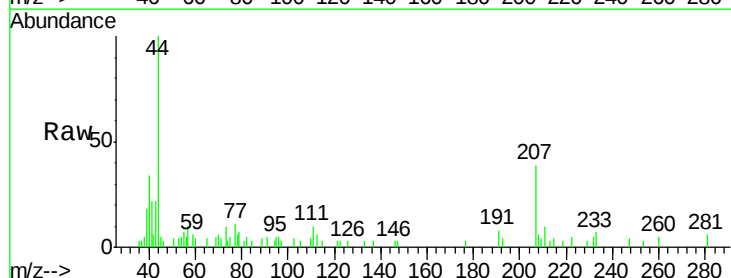
Instrument :  
MSVOA\_F  
ClientSampleId :

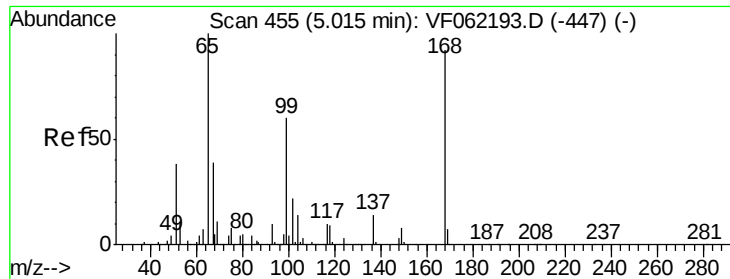
Tot Ion: 84 Resp: 10404  
Ion Ratio Lower Upper  
84 100  
49 131.8 114.0 171.0  
51 35.9 37.0 55.4#  
86 44.0 49.8 74.8#



#25  
2-Butanone  
Concen: 1.548 ug/l  
RT: 4.55 min Scan# 407  
Delta R.T. 0.04 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

Tgt Ion: 43 Resp: 3028  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.1 24.1#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.03 min

Lab File: VF062272.D

Acq: 23 Apr 2019 19:15

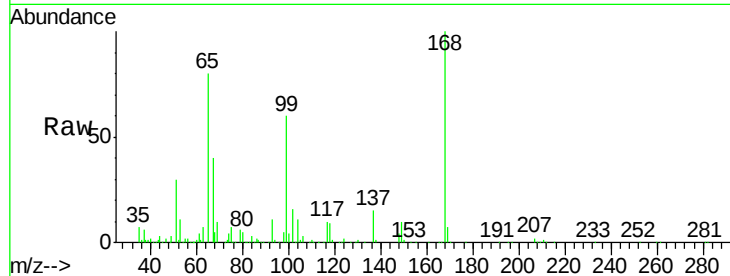
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 65 Resp: 190684

Ion Ratio Lower Upper

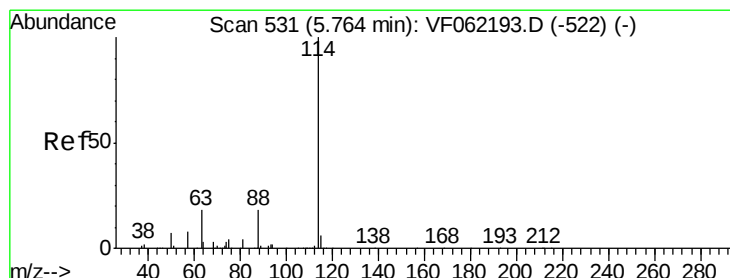
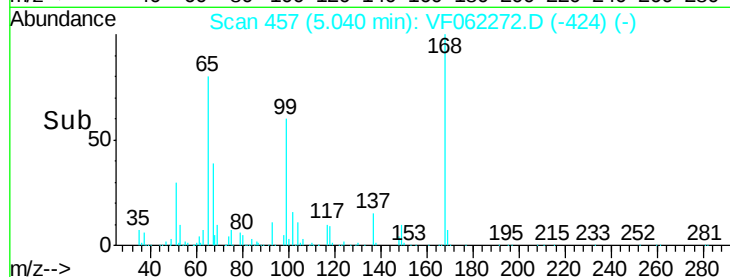
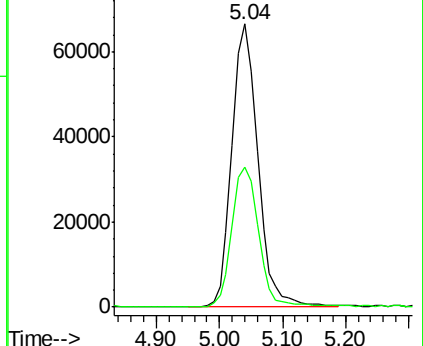
65 100

67 51.1 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.02 min

Lab File: VF062272.D

Acq: 23 Apr 2019 19:15

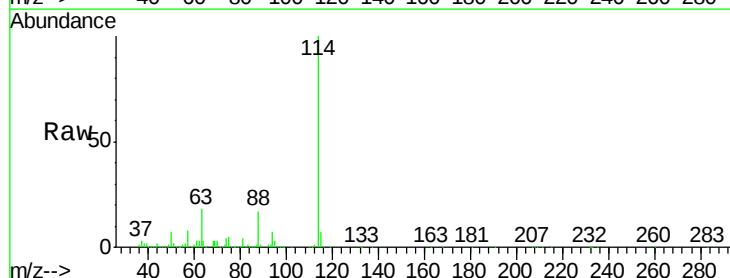
Tgt Ion: 114 Resp: 647319

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.6

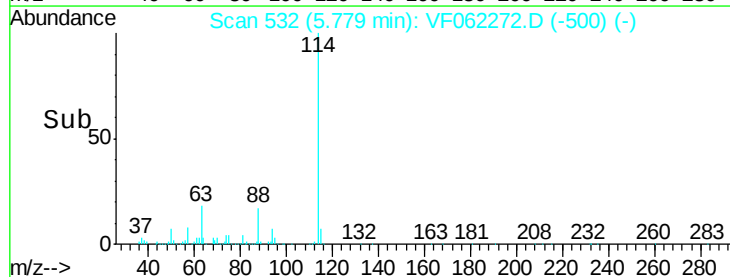
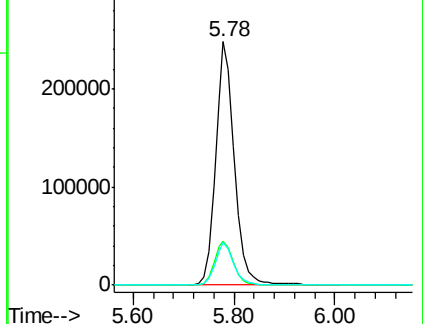
88 17.5 0.0 35.8

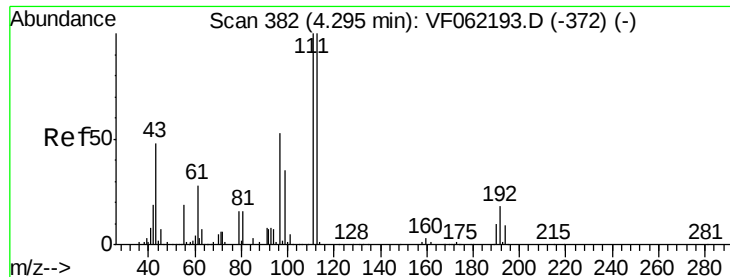


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

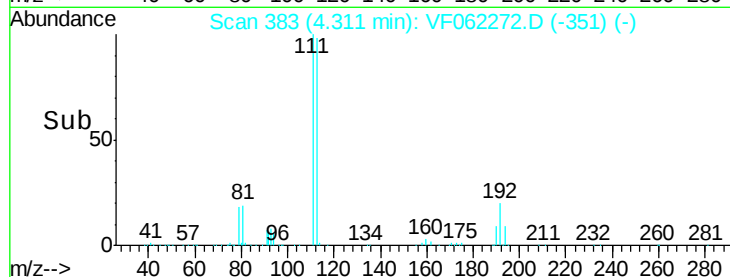
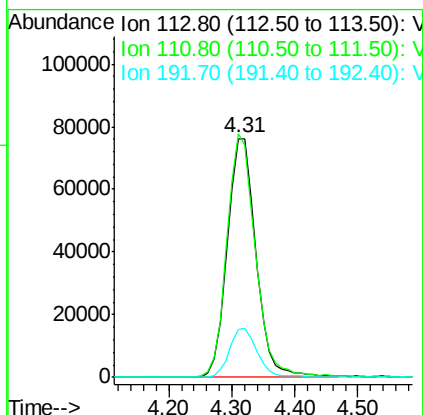
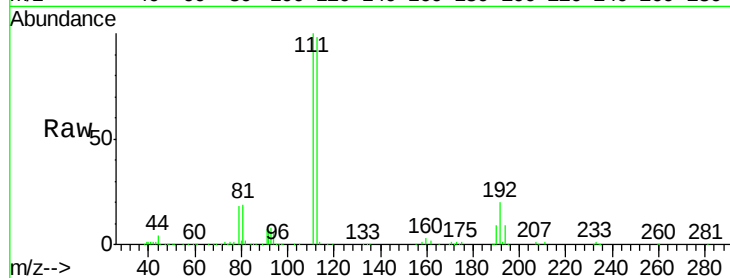




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 4.31 min Scan# 383  
 Delta R.T. 0.02 min  
 Lab File: VF062272.D  
 Acq: 23 Apr 2019 19:15

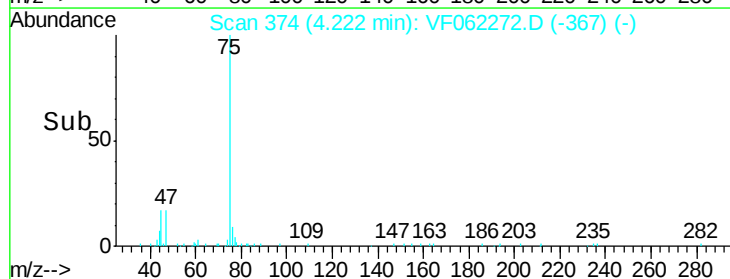
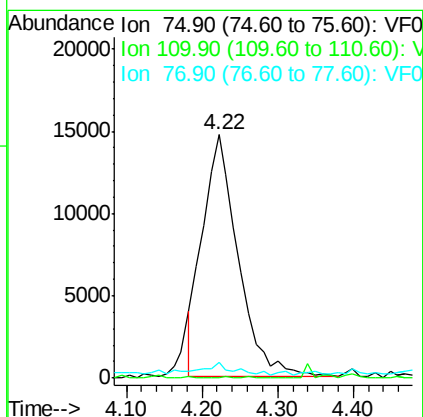
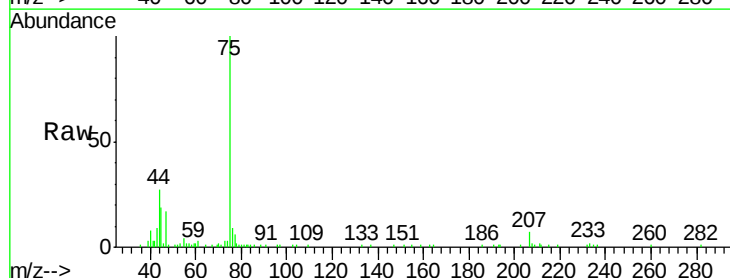
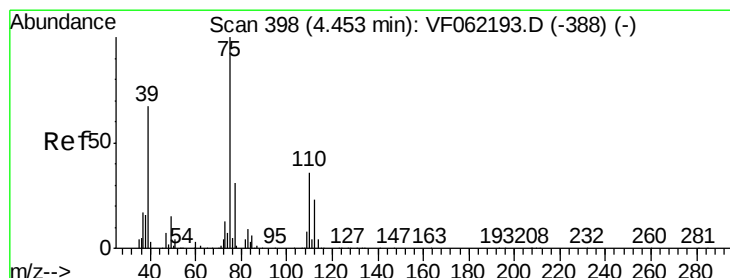
Instrument :  
 MSVOA\_F  
 ClientSampled :

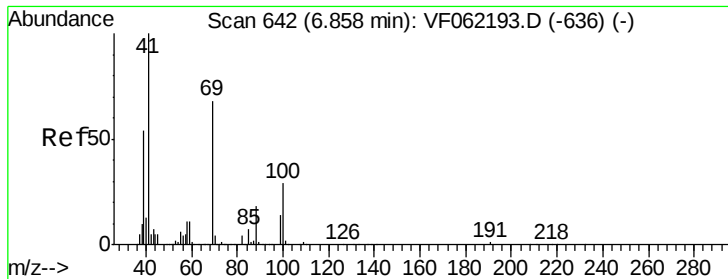
Tot Ion:113 Resp: 241075  
 Ion Ratio Lower Upper  
 113 100  
 111 101.1 81.1 121.7  
 192 20.0 14.7 22.1



#36  
 1,1-Dichloropropene  
 Concen: 6.149 ug/l  
 RT: 4.22 min Scan# 374  
 Delta R.T. -0.23 min  
 Lab File: VF062272.D  
 Acq: 23 Apr 2019 19:15

Tgt Ion: 75 Resp: 47723  
 Ion Ratio Lower Upper  
 75 100  
 110 0.1 18.4 55.2#  
 77 3.2 25.4 38.2#





#49

1,4-Dioxane

Concen: 2.308 ug/l

RT: 6.93 min Scan# 649

Delta R.T. 0.07 min

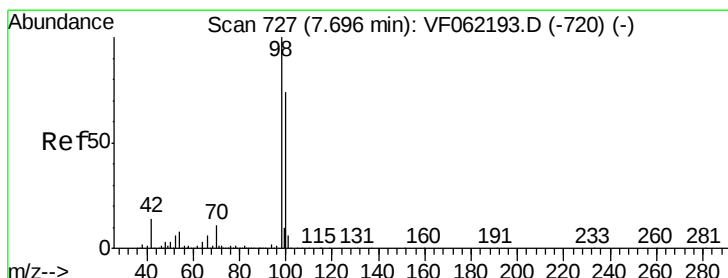
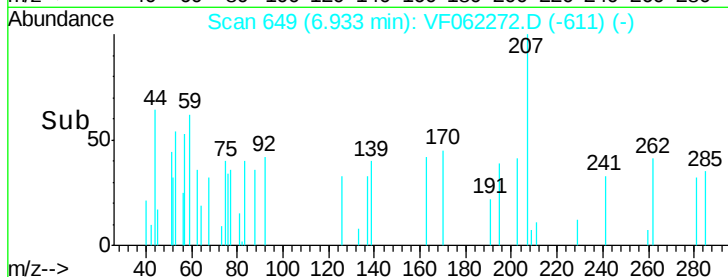
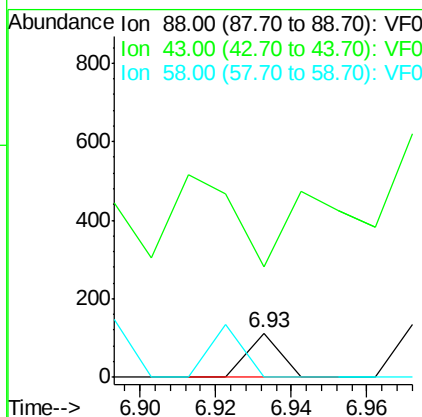
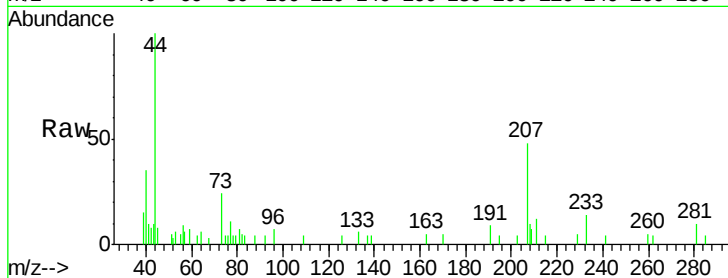
Lab File: VF062272.D

Acq: 23 Apr 2019 19:15

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 88 Resp: 67

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 0.0   | 36.9  | 55.3# |
| 58  | 117.9 | 56.8  | 85.2# |



#50

Toluene-d8

Concen: 2.308 ug/l

RT: 7.71 min Scan# 728

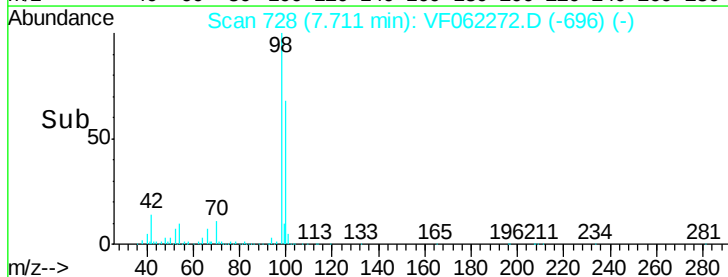
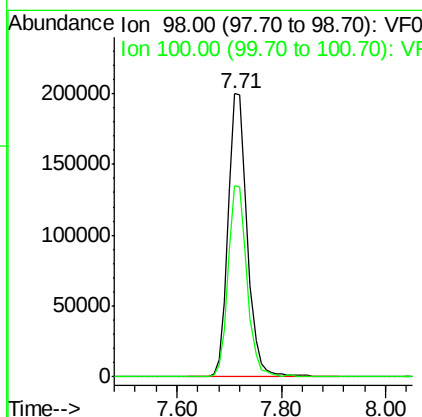
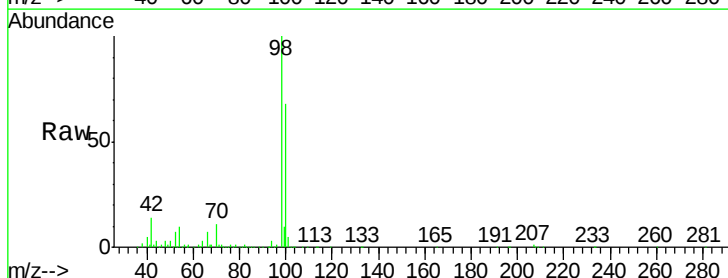
Delta R.T. 0.02 min

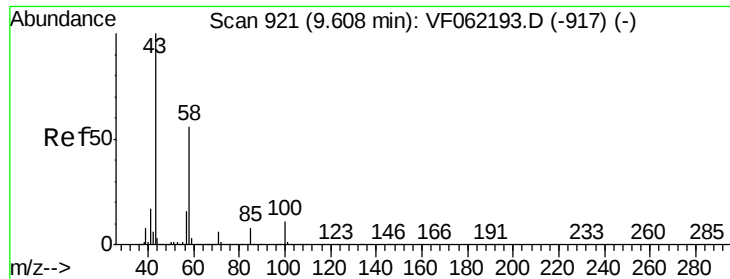
Lab File: VF062272.D

Acq: 23 Apr 2019 19:15

Tgt Ion: 98 Resp: 503506

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 66.8  | 56.2  | 84.2  |

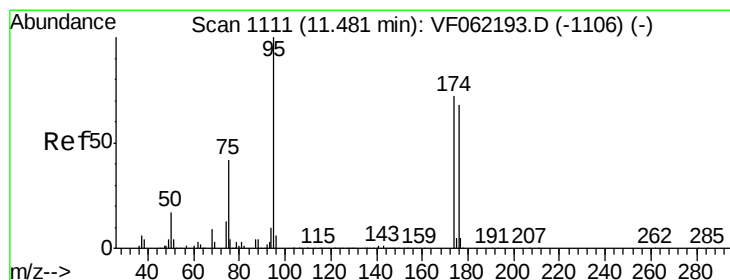
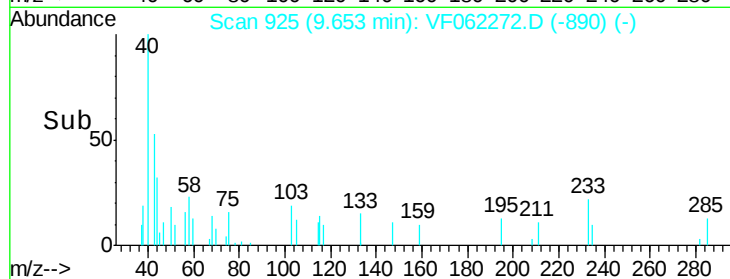
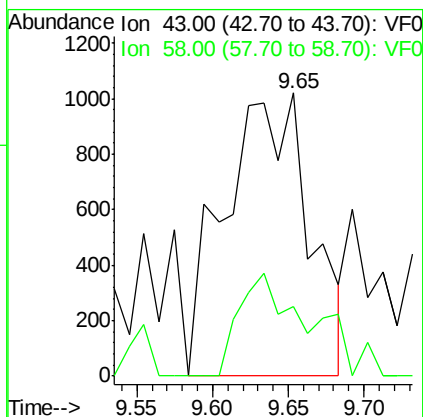
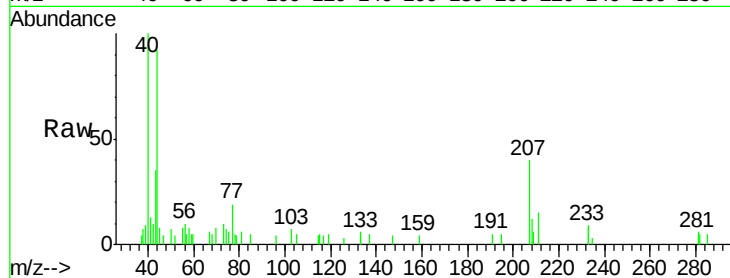




#59  
2-Hexanone  
Concen: 2.370 ug/l  
RT: 9.65 min Scan# 925  
Delta R.T. 0.05 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

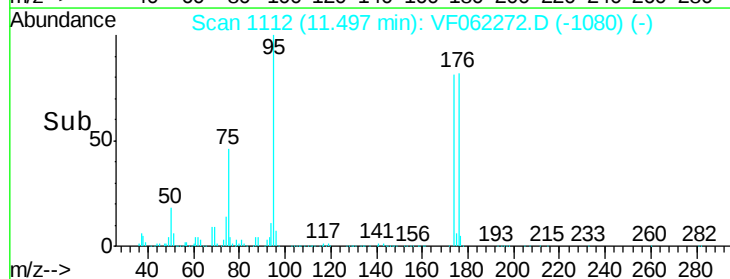
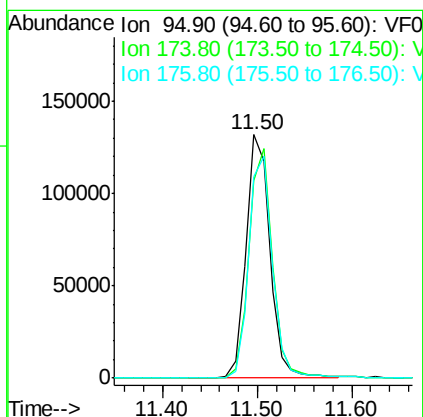
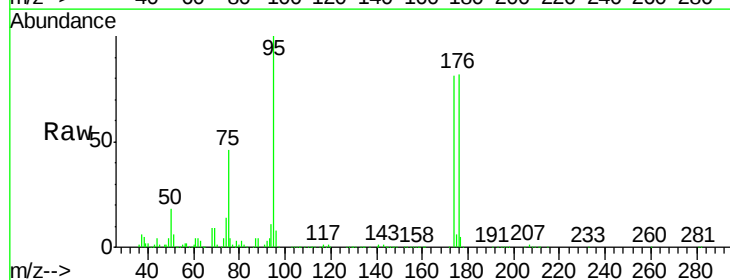
Instrument :  
MSVOA\_F  
ClientSampled :

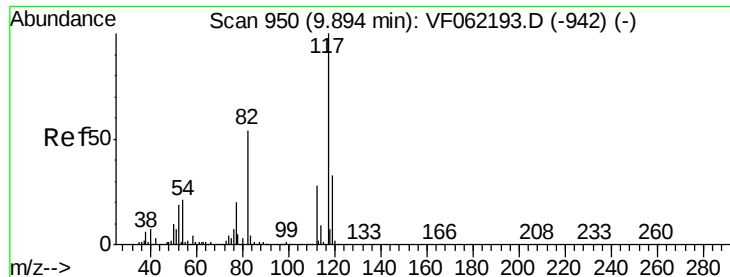
Tot Ion: 43 Resp: 3991  
Ion Ratio Lower Upper  
43 100  
58 30.5 24.6 74.0



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 11.50 min Scan# 1112  
Delta R.T. 0.02 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

Tgt Ion: 95 Resp: 230439  
Ion Ratio Lower Upper  
95 100  
174 94.2 0.0 159.4  
176 91.6 0.0 155.4

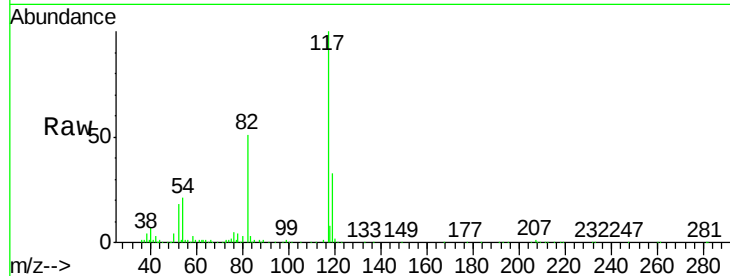




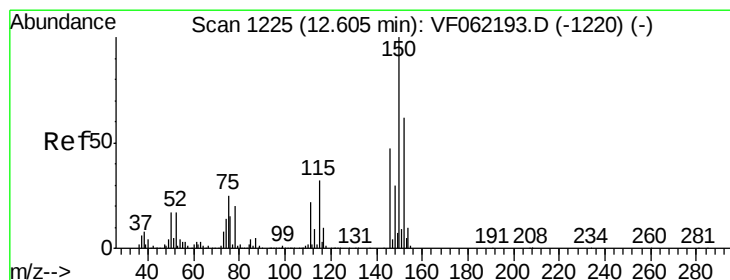
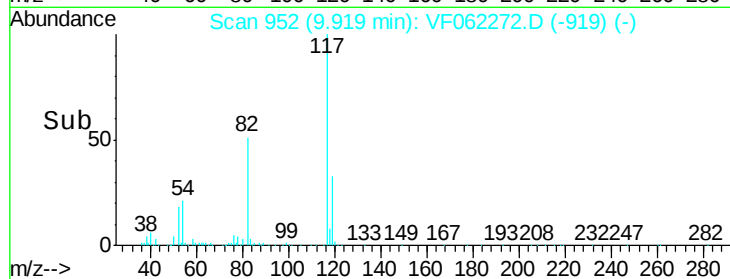
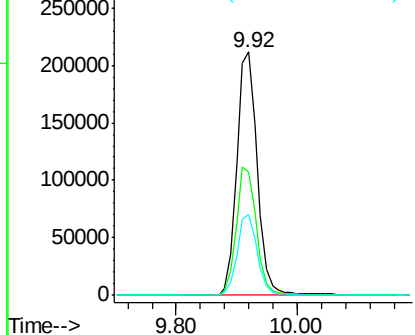
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.92 min Scan# 952  
Delta R.T. 0.03 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

Instrument :  
MSVOA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.8  | 43.2  | 64.8  |
| 119     | 33.0  | 26.2  | 39.4  |

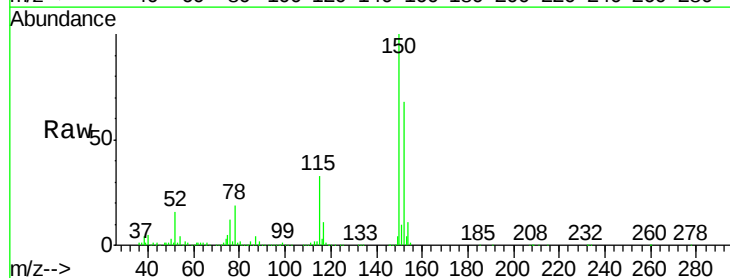


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 118.90 (118.60 to 119.60): V

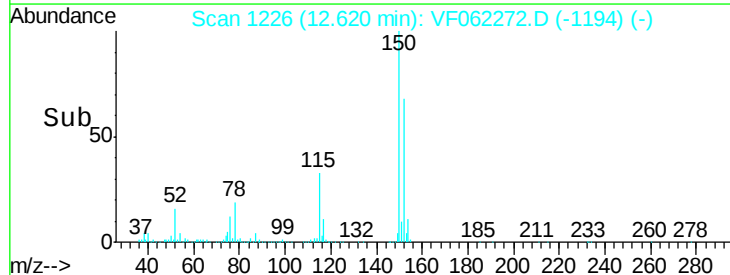
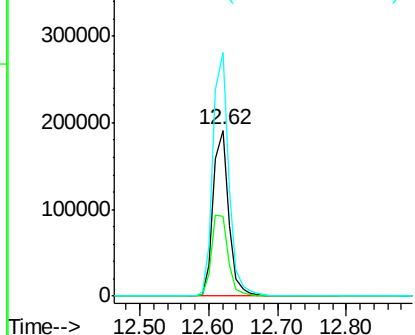


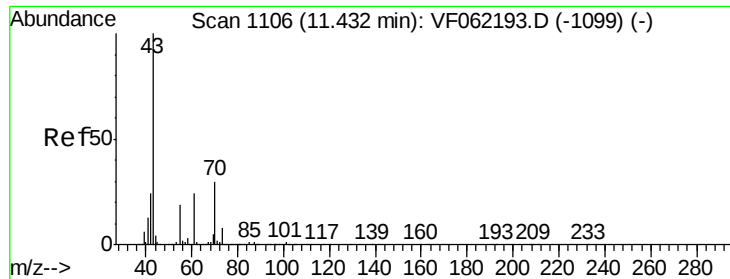
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.62 min Scan# 1226  
Delta R.T. 0.02 min  
Lab File: VF062272.D  
Acq: 23 Apr 2019 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.7  | 27.8  | 83.3  |
| 150     | 151.3 | 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: 11.44 min Scan# 1106

Delta R.T. 0.01 min

Lab File: VF062272.D

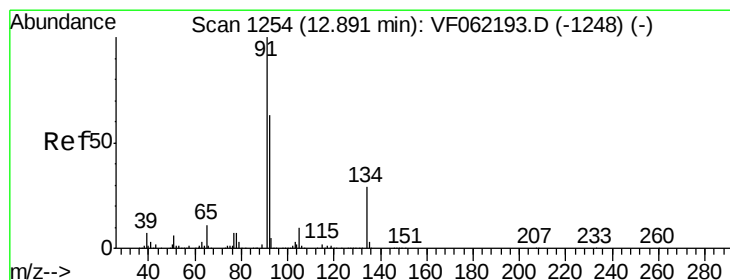
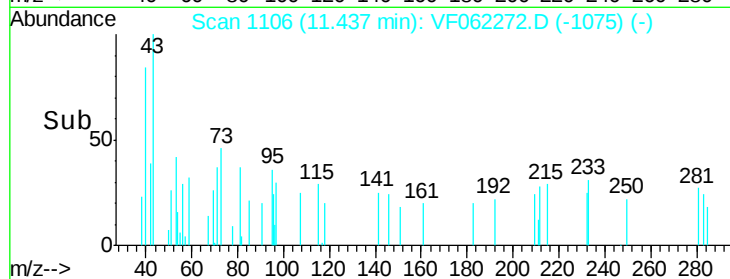
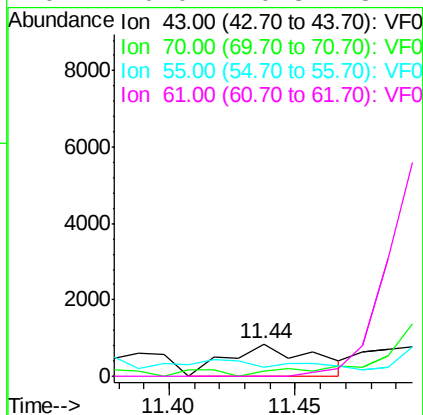
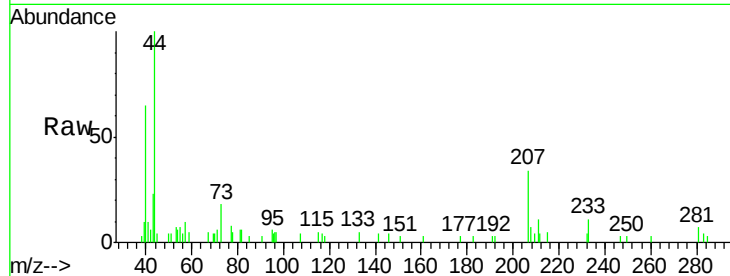
Acq: 23 Apr 2019 19:15

Instrument :

MSVOA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 1964  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 27.0  | 40.4# |
| 55       | 0.0   | 15.7  | 23.5# |
| 61       | 0.0   | 20.8  | 31.2# |



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.91 min Scan# 1255

Delta R.T. 0.02 min

Lab File: VF062272.D

Acq: 23 Apr 2019 19:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 1886  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 36.4  | 31.2  | 93.6  |
| 134      | 30.6  | 13.1  | 39.1  |

