

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\  
 Data File : VF062458.D  
 Acq On : 11 May 2019 14:20  
 Operator : FY/SY  
 Sample : K2754-05  
 Misc : 5.03g/5mL/MSVOA F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 C-1

Quant Time: May 12 03:46:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

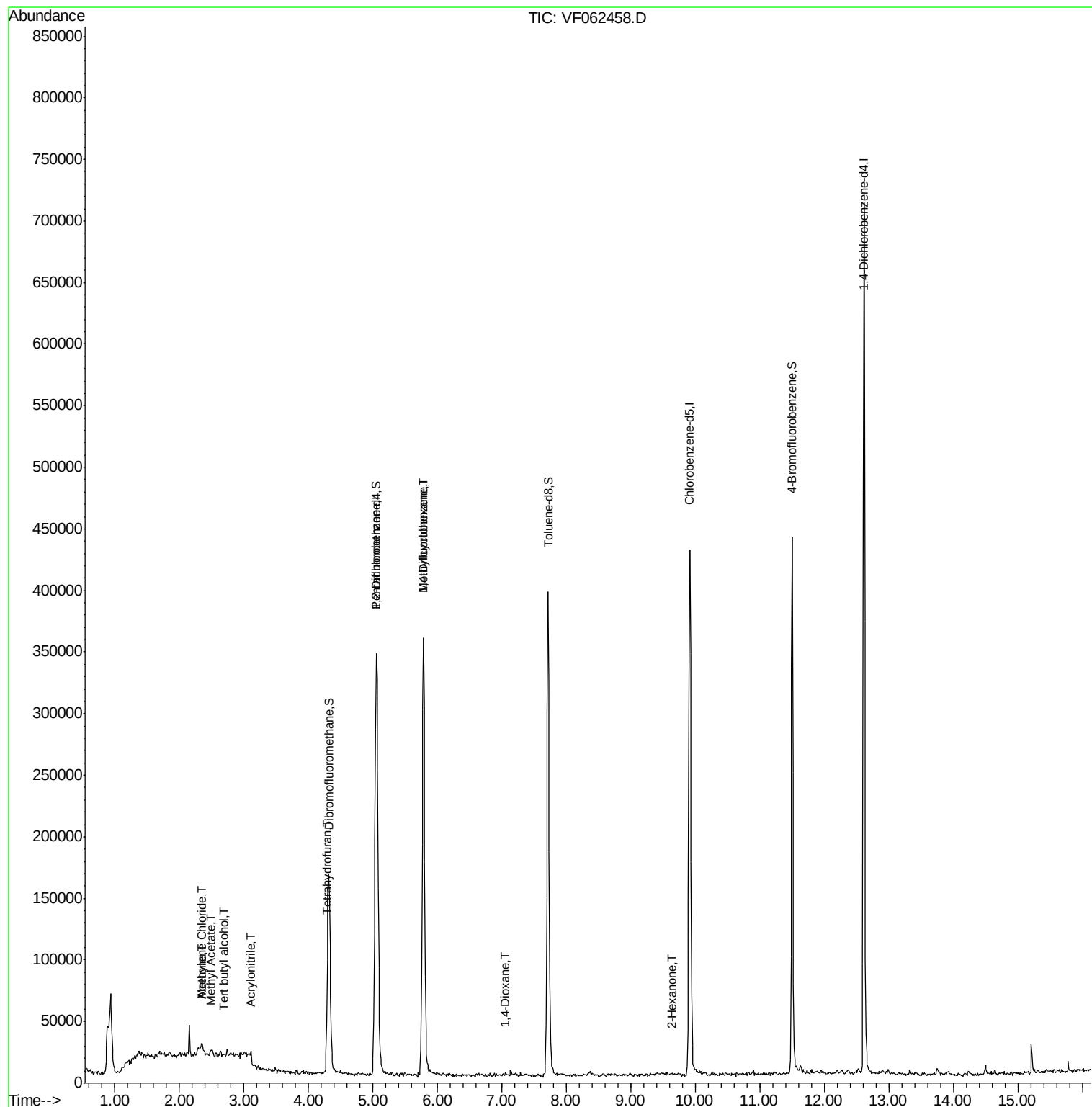
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene       | 5.06  | 168  | 282042   | 50.00     | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene     | 5.78  | 114  | 388575   | 50.00     | ug/l   | 0.01     |
| 63) Chlorobenzene-d5        | 9.91  | 117  | 308751   | 50.00     | ug/l   | 0.01     |
| 72) 1,4-Dichlorobenzene-d4  | 12.61 | 152  | 186704   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 123992   | 46.52     | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 93.04% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 145728   | 47.07     | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 94.14% |          |
| 50) Toluene-d8              | 7.72  | 98   | 319967   | 42.70     | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 85.40% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 136711   | 40.44     | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 80.88% |          |
| Target Compounds            |       |      |          |           |        |          |
|                             |       |      |          |           | Qvalue |          |
| 5) Bromomethane             | 1.43  | 94   | 212      | Below Cal | #      | 41       |
| 11) Tert butyl alcohol      | 2.70  | 59   | 397      | 2.635     | ug/l # | 1        |
| 13) Acrolein                | 2.13  | 56   | 528      | Below Cal | #      | 1        |
| 15) Acrylonitrile           | 3.10  | 53   | 402      | 1.409     | ug/l # | 18       |
| 16) Acetone                 | 2.34  | 43   | 6934     | 12.860    | ug/l # | 79       |
| 18) Methyl Acetate          | 2.49  | 43   | 5185     | 2.284     | ug/l # | 63       |
| 20) Methylene Chloride      | 2.33  | 84   | 3558     | 1.824     | ug/l # | 94       |
| 29) Tetrahydrofuran         | 4.29  | 42   | 522      | 1.677     | ug/l # | 69       |
| 37) Ethyl Acetate           | 4.30  | 43   | 812      | Below Cal | #      | 73       |
| 38) Carbon Tetrachloride    | 4.24  | 117  | 84       | Below Cal | #      | 14       |
| 39) Methylcyclohexane       | 5.78  | 83   | 5897     | 1.762     | ug/l # | 52       |
| 49) 1,4-Dioxane             | 7.06  | 88   | 266      | 11.184    | ug/l # | 1        |
| 59) 2-Hexanone              | 9.64  | 43   | 1368     | 1.719     | ug/l   | 99       |

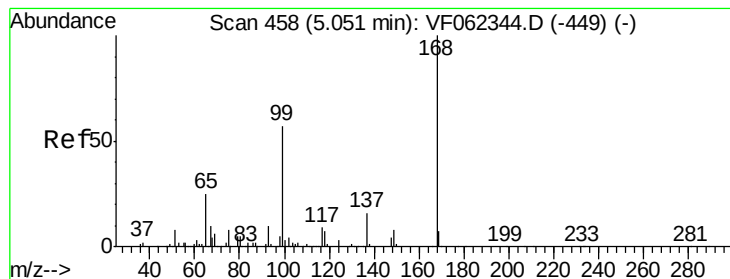
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampled :

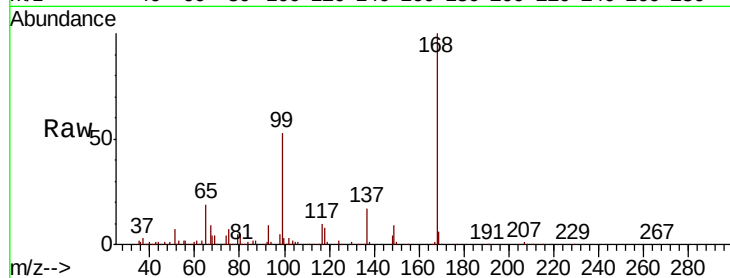
C-1

Tot Ion:168 Resp: 282042

Ion Ratio Lower Upper

168 100

99 52.9 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

100000

80000

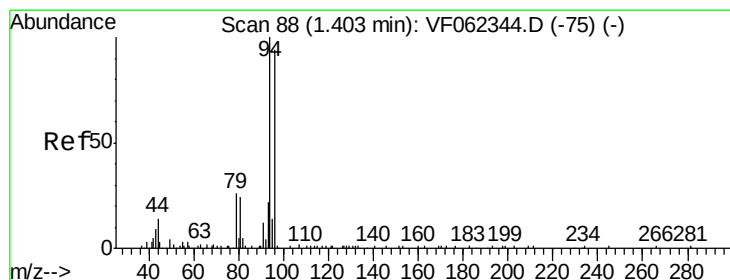
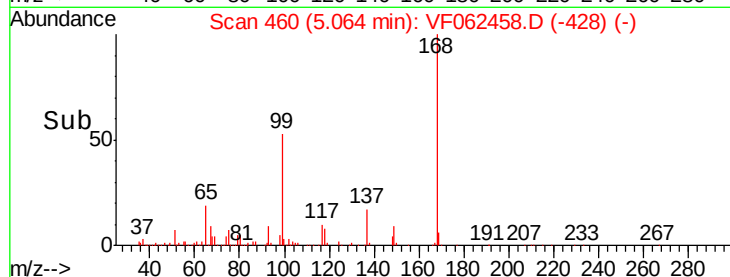
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.02 min

Lab File: VF062458.D

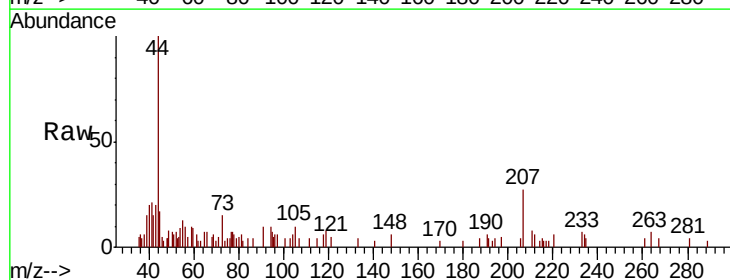
Acq: 11 May 2019 14:20

Tgt Ion: 94 Resp: 212

Ion Ratio Lower Upper

94 100

96 36.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.43

400

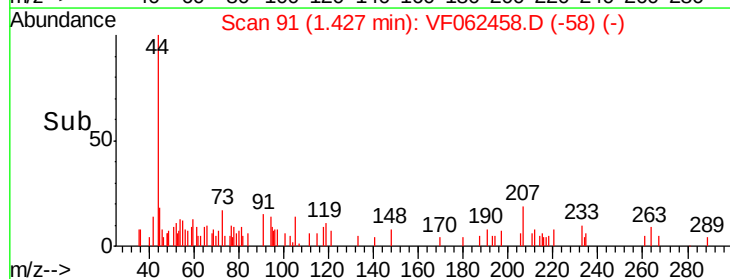
300

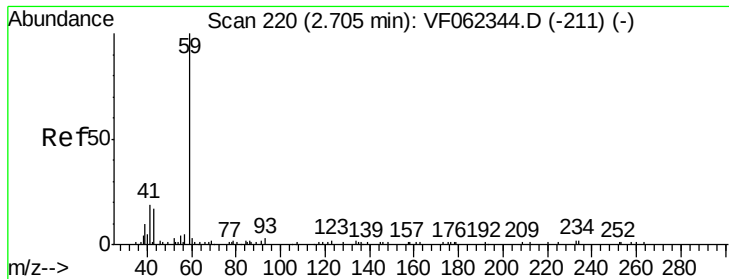
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 2.635 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampled :

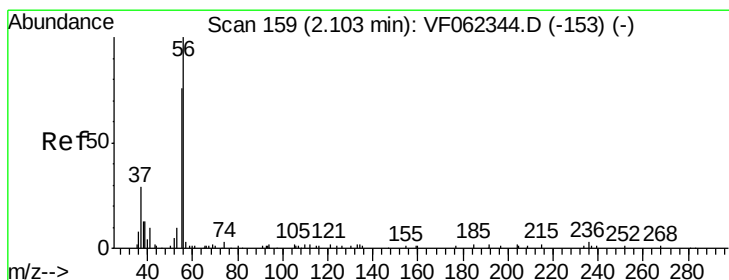
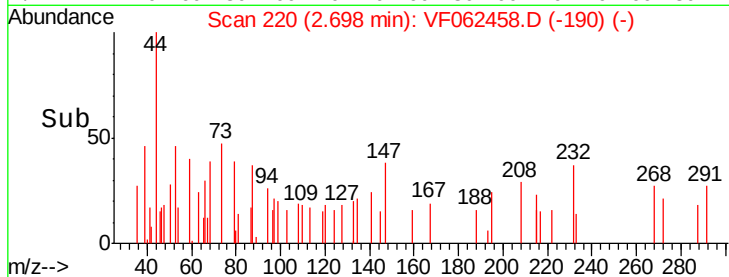
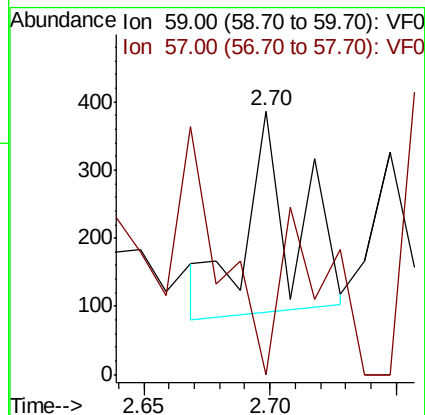
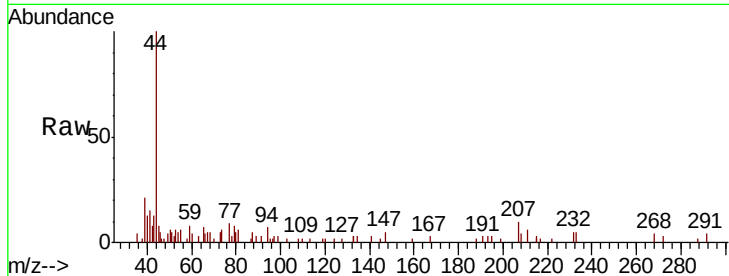
C-1

Tot Ion: 59 Resp: 397

Ion Ratio Lower Upper

59 100

57 80.4 9.3 13.9#



#13

Acrolein

Concen: Below Cal

RT: 2.13 min Scan# 162

Delta R.T. 0.02 min

Lab File: VF062458.D

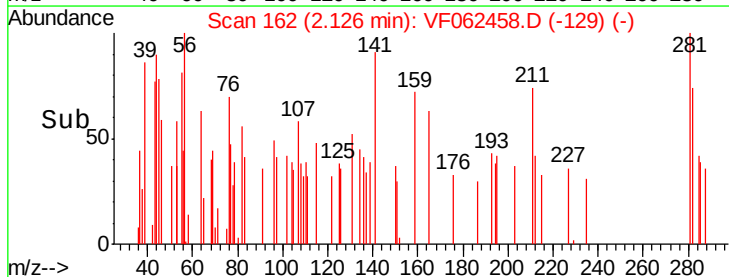
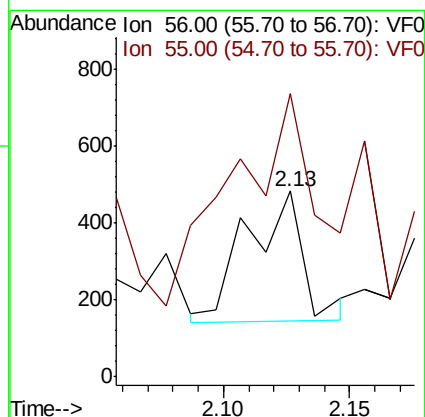
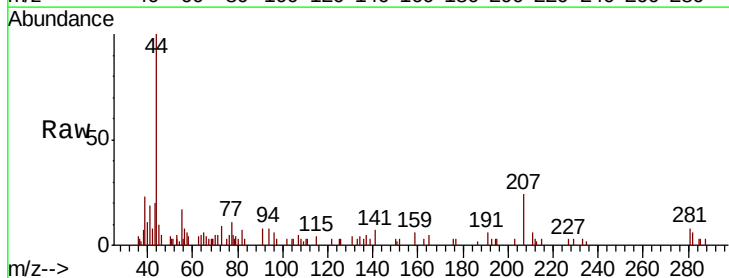
Acq: 11 May 2019 14:20

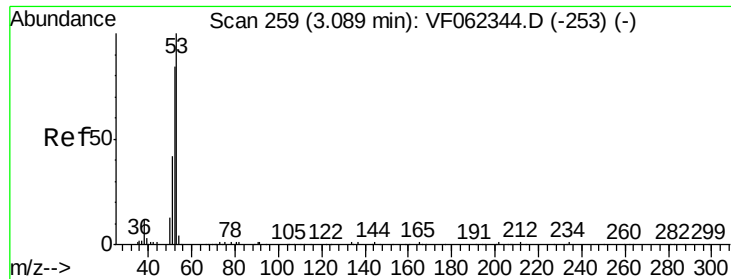
Tgt Ion: 56 Resp: 528

Ion Ratio Lower Upper

56 100

55 239.8 58.4 87.6#





#15

Acrylonitrile

Concen: 1.409 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampled :

C-1

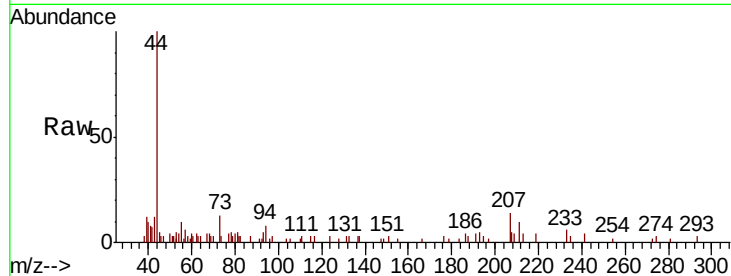
Tot Ion: 53 Resp: 402

Ion Ratio Lower Upper

53 100

52 181.8 77.2 115.8#

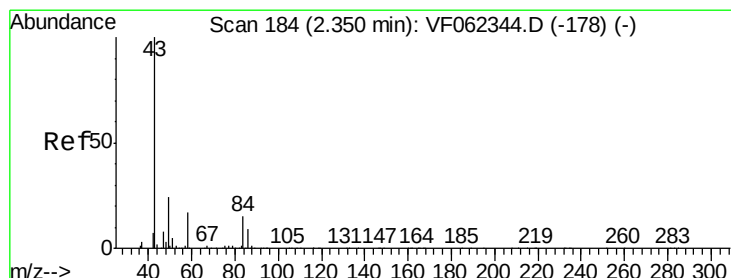
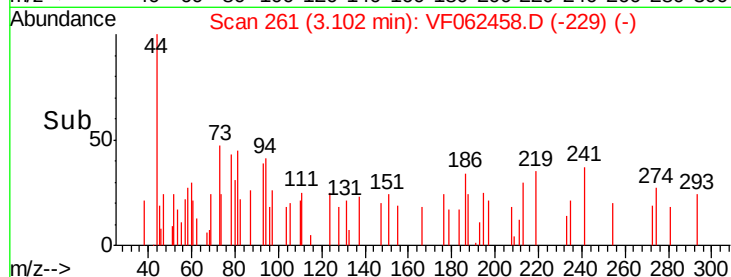
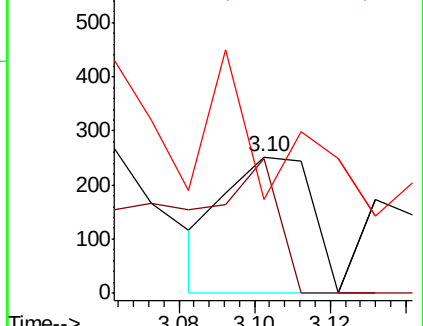
51 0.0 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 12.860 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062458.D

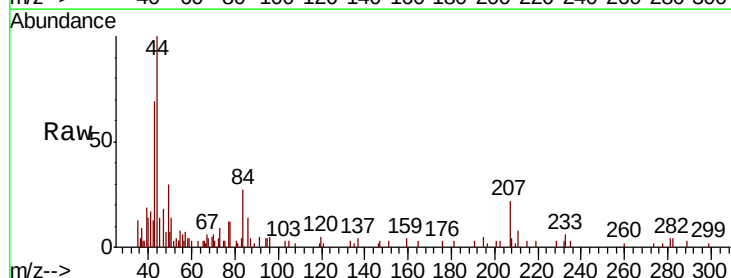
Acq: 11 May 2019 14:20

Tgt Ion: 43 Resp: 6934

Ion Ratio Lower Upper

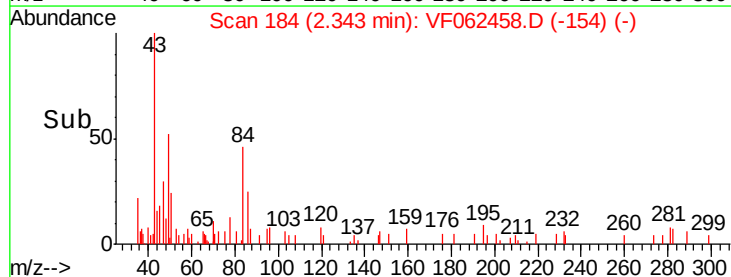
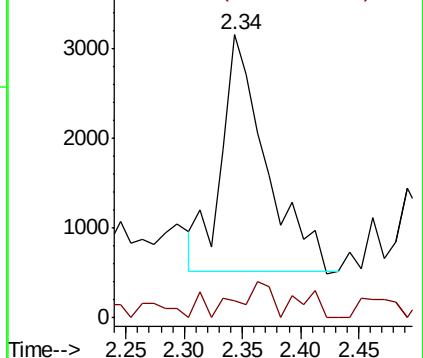
43 100

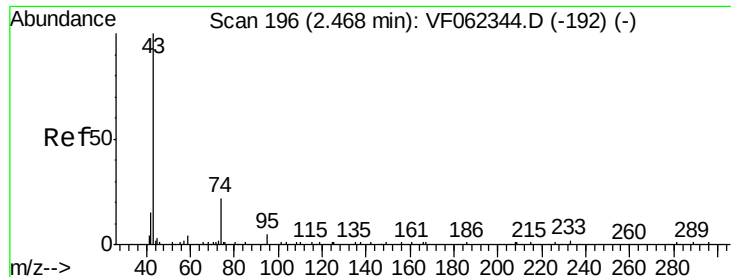
58 7.2 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

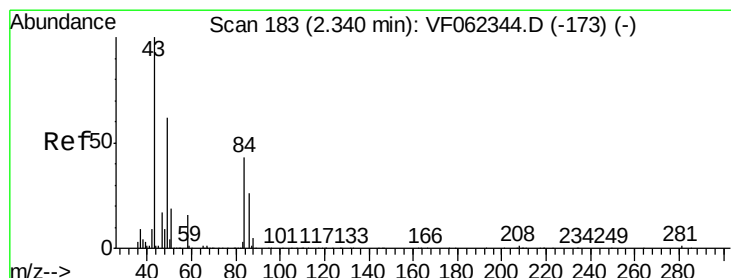
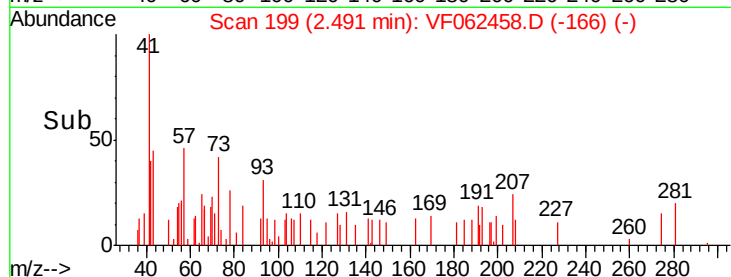
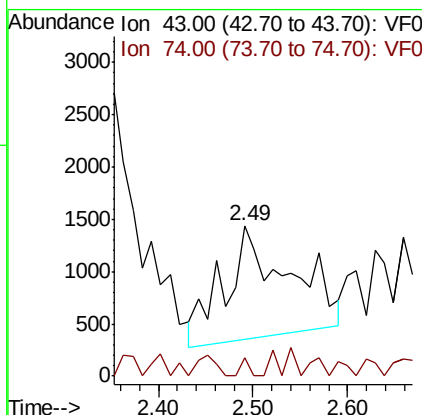
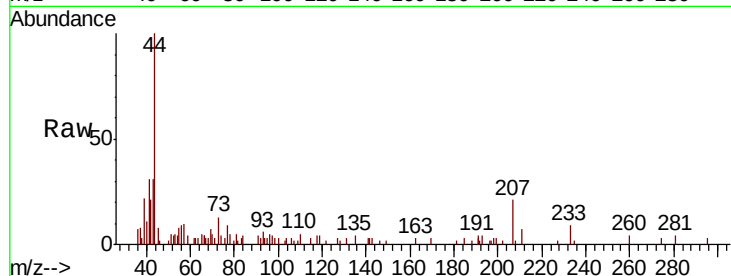




#18  
Methvl Acetate  
Concen: 2.284 ug/l  
RT: 2.49 min Scan# 199  
Delta R.T. 0.02 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

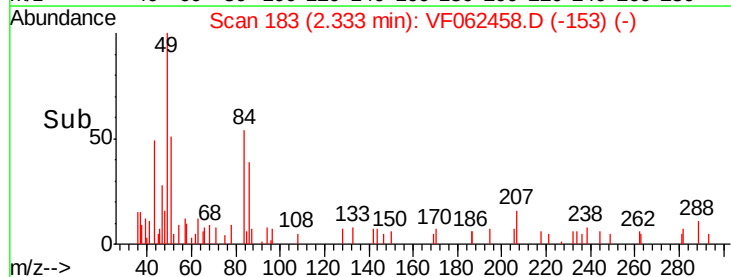
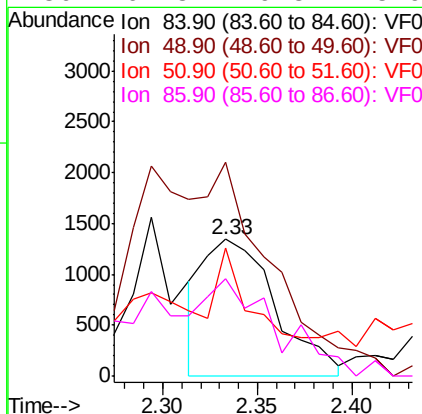
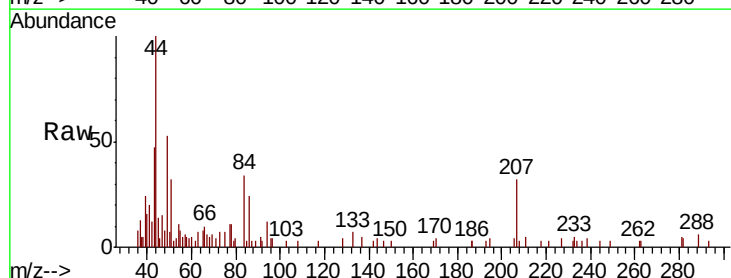
Instrument :  
MSVOA\_F  
ClientSampleId :  
C-1

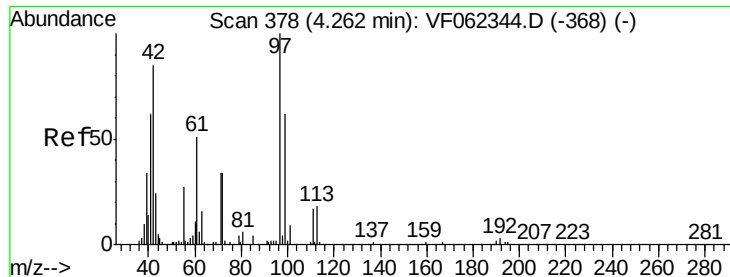
Tot Ion: 43 Resp: 5185  
Ion Ratio Lower Upper  
43 100  
74 2.0 15.0 22.4#



#20  
Methylene Chloride  
Concen: 1.824 ug/l  
RT: 2.33 min Scan# 183  
Delta R.T. -0.01 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

Tgt Ion: 84 Resp: 3558  
Ion Ratio Lower Upper  
84 100  
49 147.2 117.5 176.3  
51 66.1 37.0 55.4#  
86 62.8 49.3 73.9





#29

Tetrahydrofuran

Concen: 1.677 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampleId :

C-1

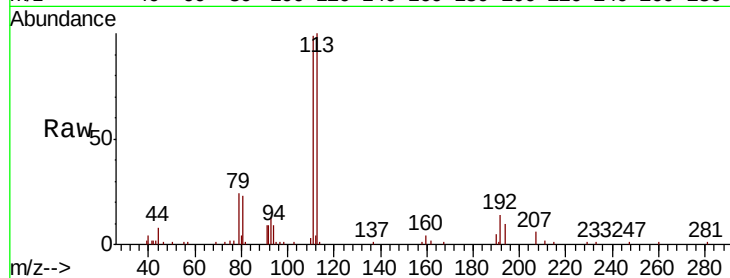
Tot Ion: 42 Resp: 522

Ion Ratio Lower Upper

42 100

72 15.7 31.4 47.0#

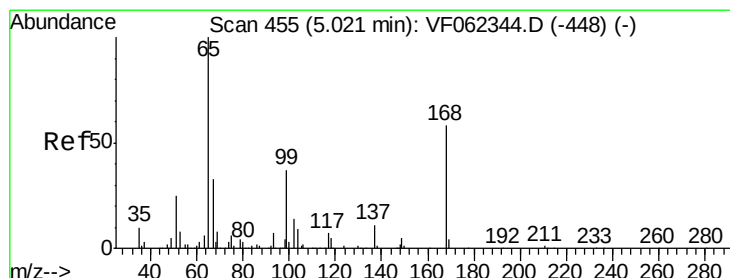
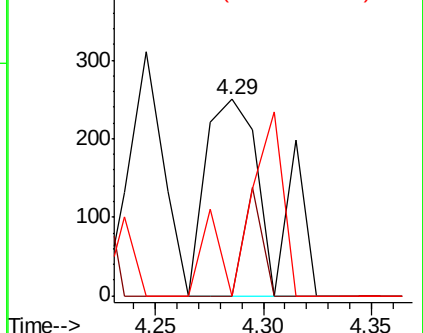
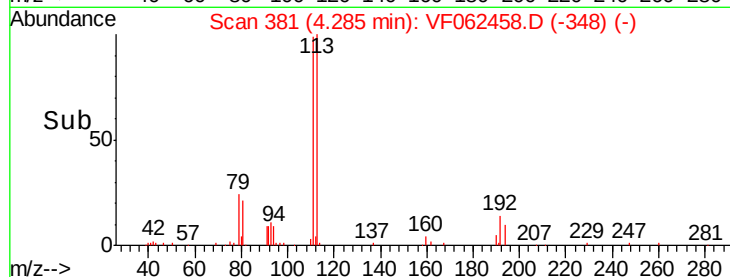
71 54.6 31.7 47.5#



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: 46.519 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062458.D

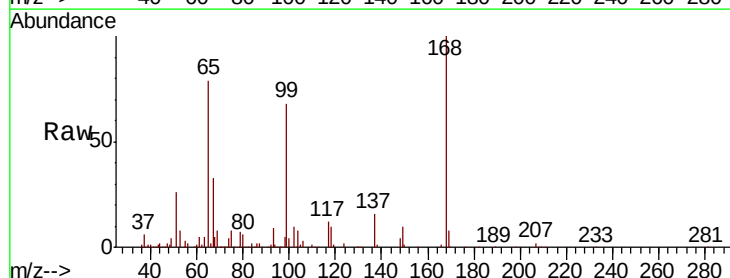
Acq: 11 May 2019 14:20

Tgt Ion: 65 Resp: 123992

Ion Ratio Lower Upper

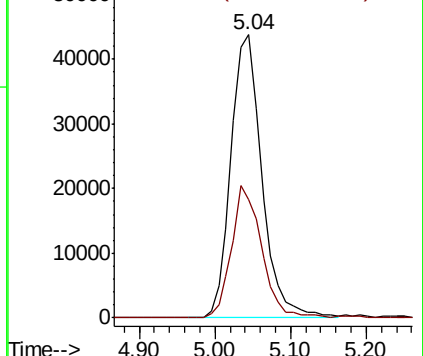
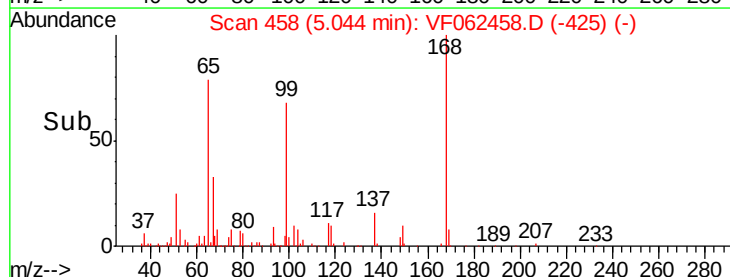
65 100

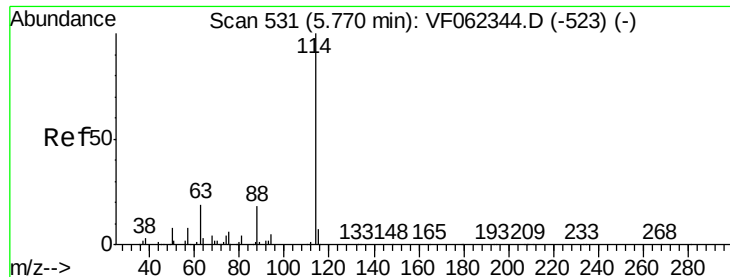
67 45.5 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

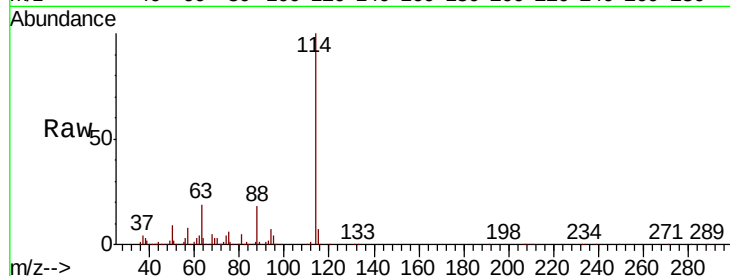




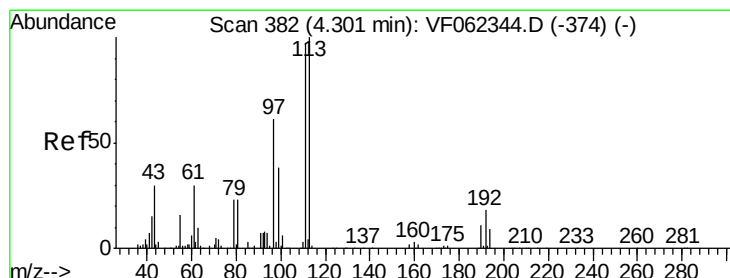
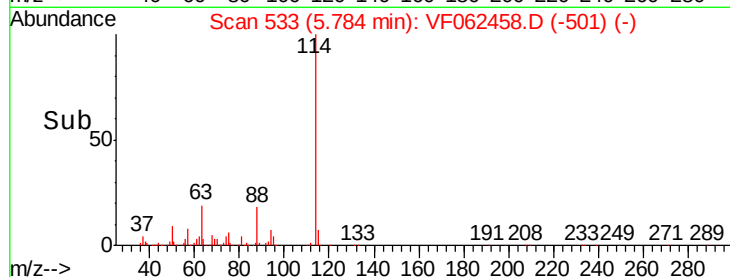
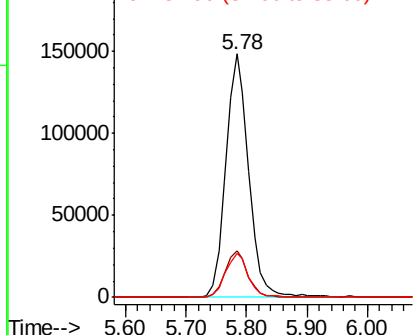
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.78 min Scan# 533  
Delta R.T. 0.01 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

Instrument :  
MSVOA\_F  
ClientSampleId :  
C-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.1  | 0.0   | 37.4  |
| 88      | 18.0  | 0.0   | 36.4  |

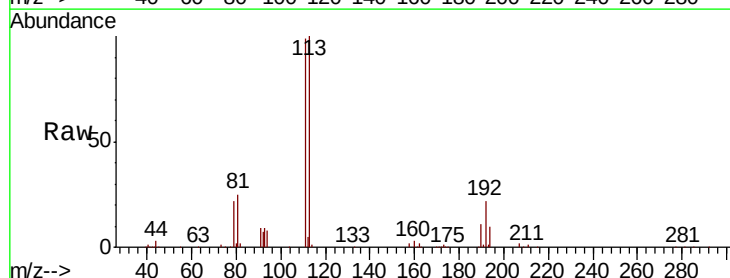


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VF0  
Ion 87.90 (87.60 to 88.60): VF0

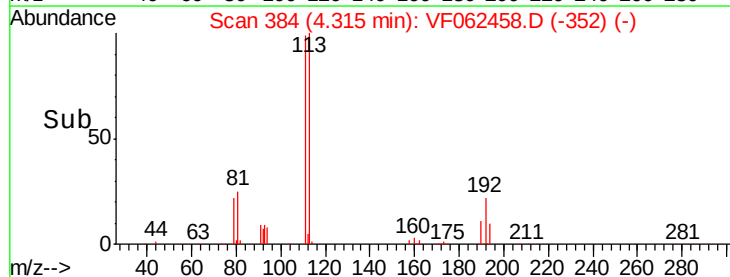
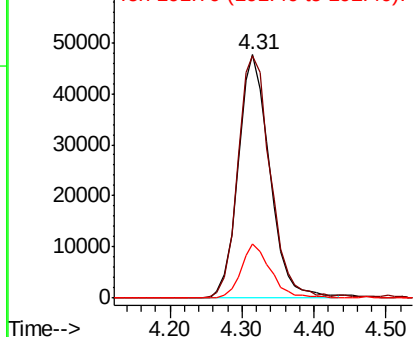


#35  
Dibromofluoromethane  
Concen: 47.074 ug/l  
RT: 4.31 min Scan# 384  
Delta R.T. 0.01 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

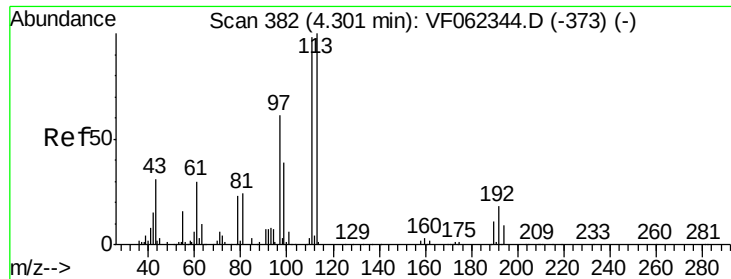
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 79.4  | 119.0 |
| 192     | 21.0  | 16.0  | 24.0  |



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



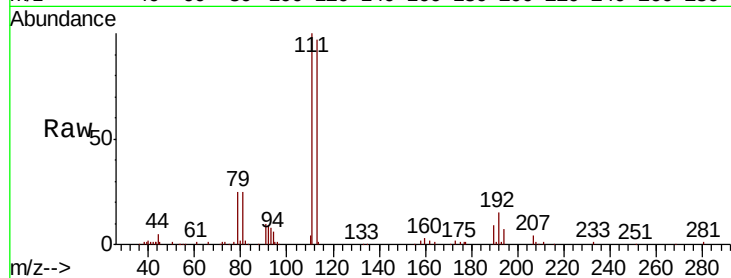




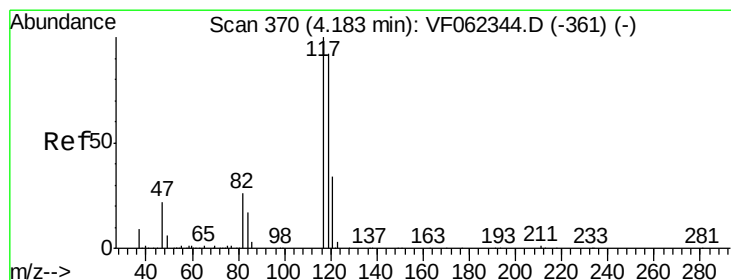
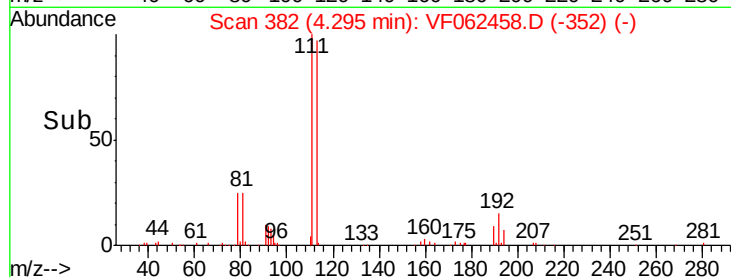
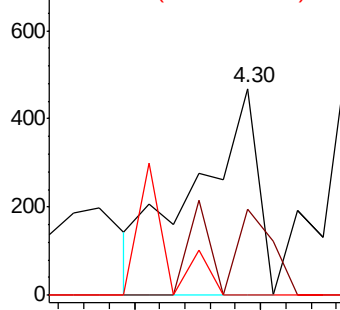
#37  
Ethyl Acetate  
Concen: Below Cal  
RT: 4.30 min Scan# 382  
Delta R.T. -0.01 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

Instrument :  
MSVOA\_F  
ClientSampleId :  
C-1

Tot Ion: 43 Resp: 812  
Ion Ratio Lower Upper  
43 100  
61 15.8 0.0 0.0#  
70 0.0 8.2 12.2#

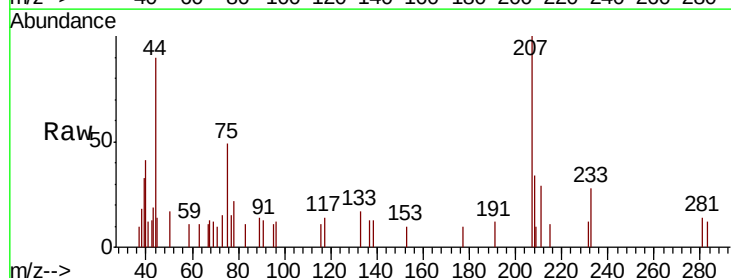


Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 60.90 (60.60 to 61.60): VF0  
Ion 70.00 (69.70 to 70.70): VF0

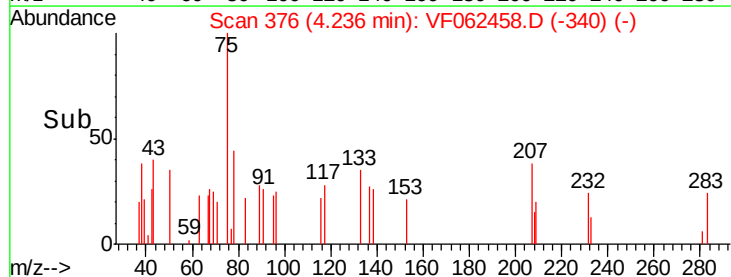
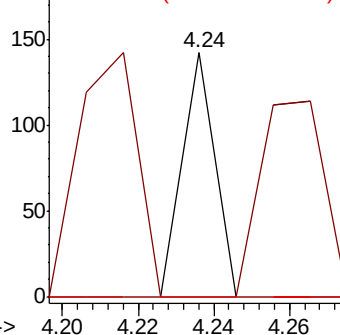


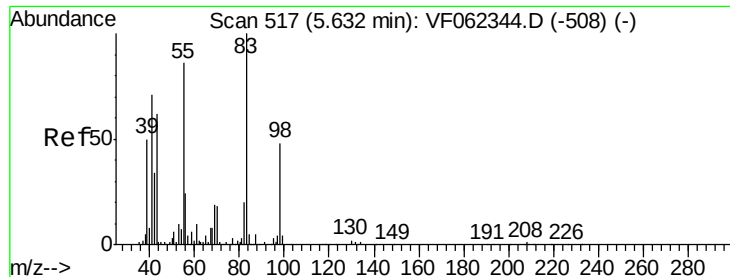
#38  
Carbon Tetrachloride  
Concen: Below Cal  
RT: 4.24 min Scan# 376  
Delta R.T. 0.05 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

Tgt Ion: 117 Resp: 84  
Ion Ratio Lower Upper  
117 100  
119 0.0 73.4 110.2#  
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 1.762 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampleId :

C-1

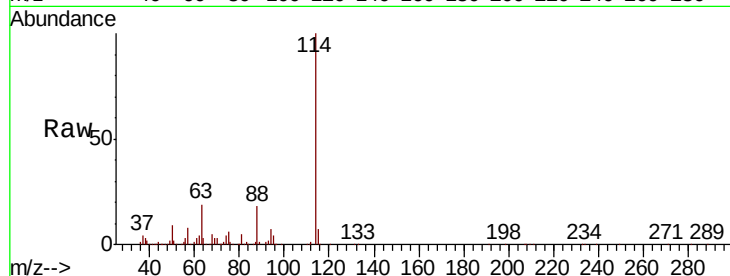
Tot Ion: 83 Resp: 5897

Ion Ratio Lower Upper

83 100

55 54.1 69.0 103.6#

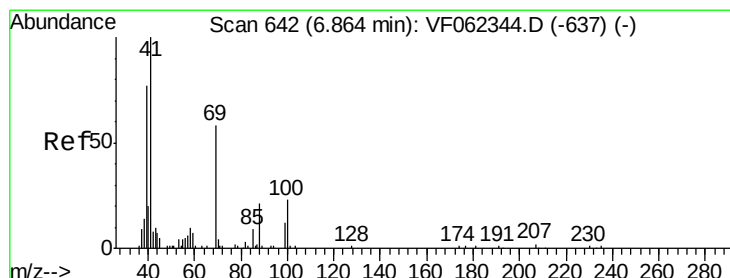
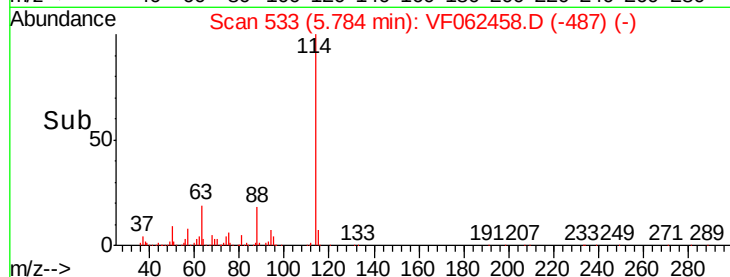
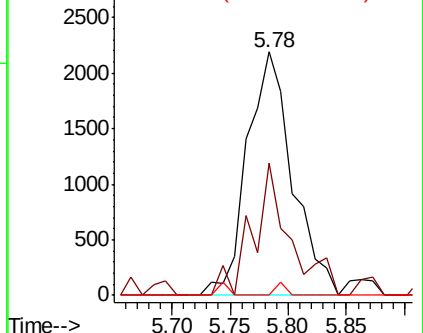
98 0.0 38.6 58.0#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#49

1,4-Dioxane

Concen: 11.184 ug/l

RT: 7.06 min Scan# 662

Delta R.T. 0.19 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

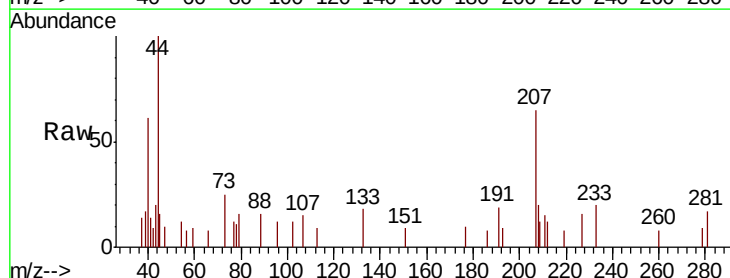
Tgt Ion: 88 Resp: 266

Ion Ratio Lower Upper

88 100

43 212.4 55.6 83.4#

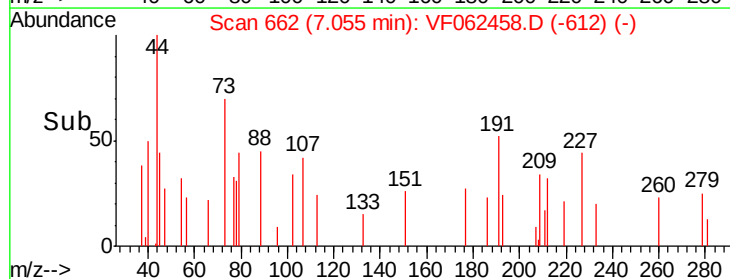
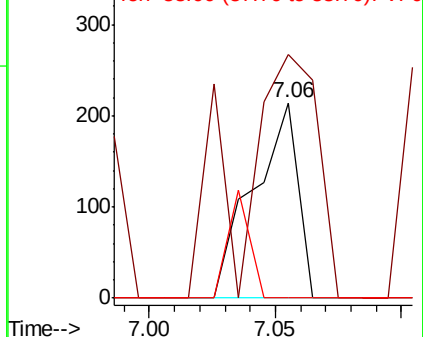
58 26.3 52.8 79.2#

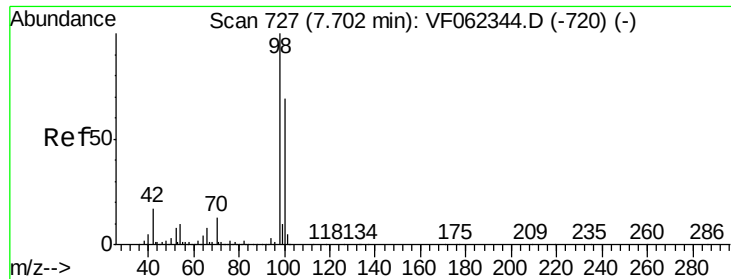


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 42.698 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampled :

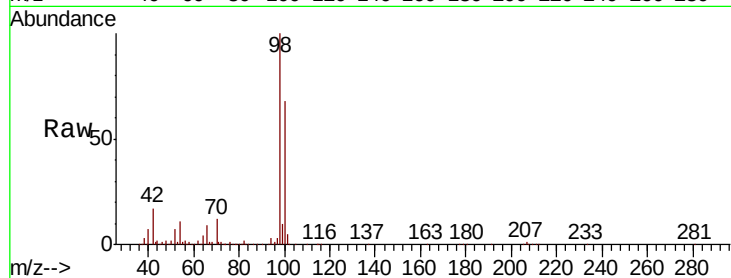
C-1

Tot Ion: 98 Resp: 319967

Ion Ratio Lower Upper

98 100

100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

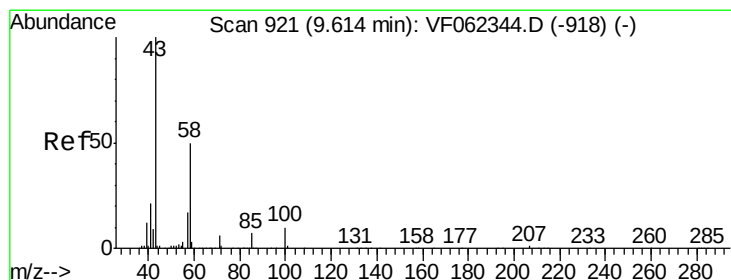
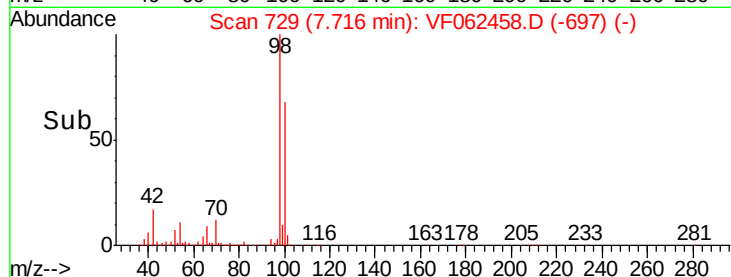
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.719 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.02 min

Lab File: VF062458.D

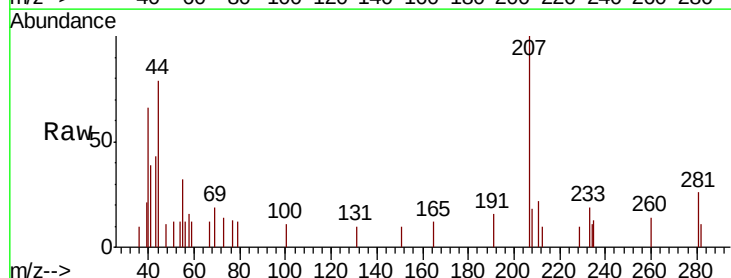
Acq: 11 May 2019 14:20

Tgt Ion: 43 Resp: 1368

Ion Ratio Lower Upper

43 100

58 48.0 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

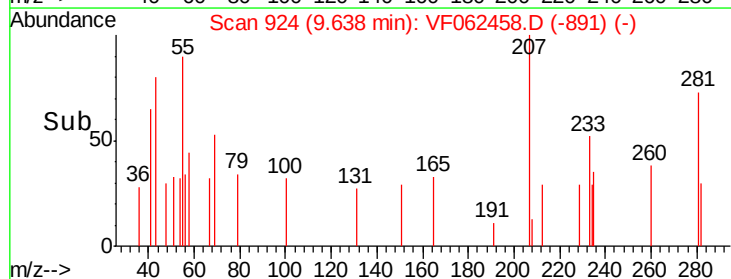
600

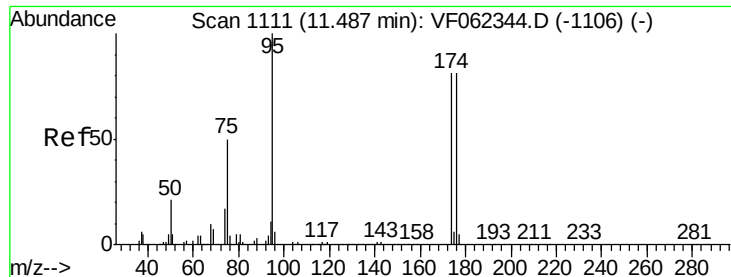
400

200

0

Time-->

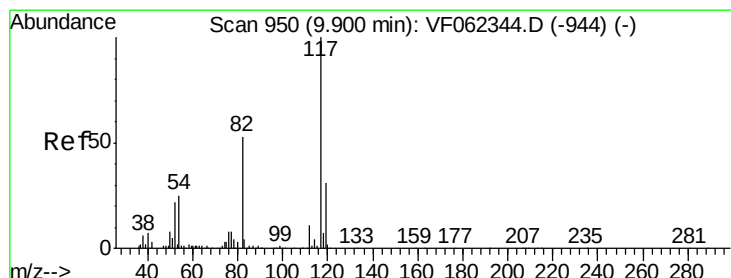
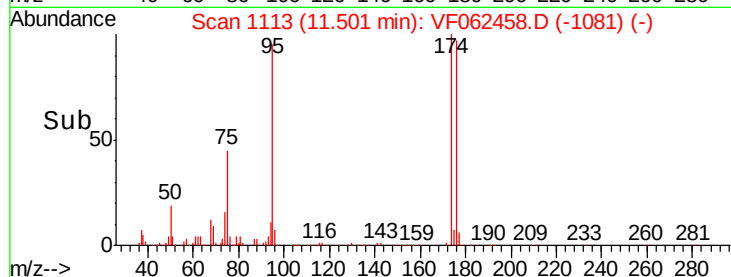
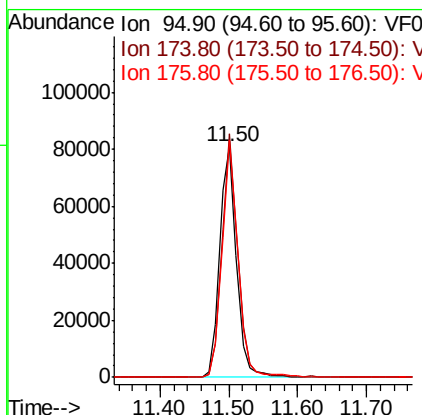
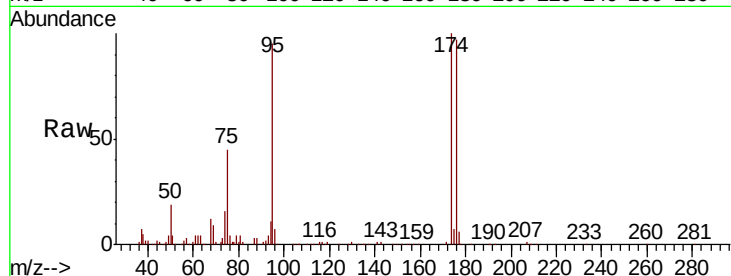




#62  
4-Bromofluorobenzene  
Concen: 40.437 ug/l  
RT: 11.50 min Scan# 1113  
Delta R.T. 0.01 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

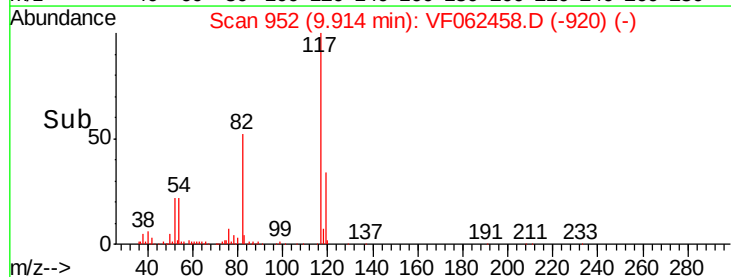
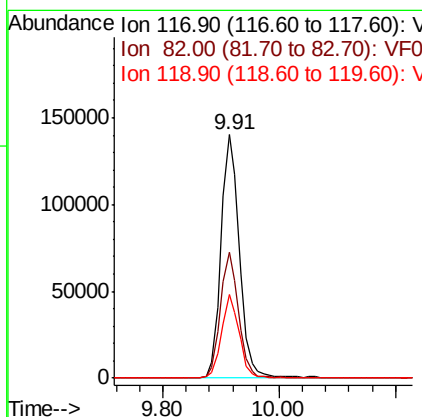
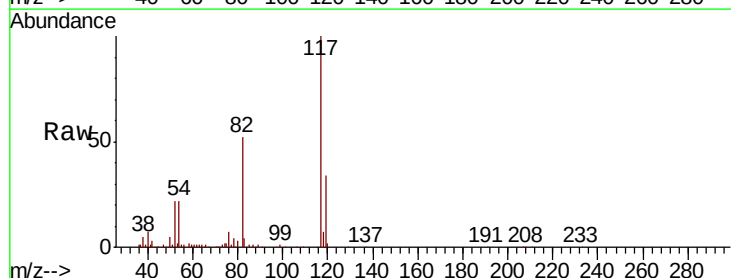
Instrument :  
MSVOA\_F  
ClientSampleId :  
C-1

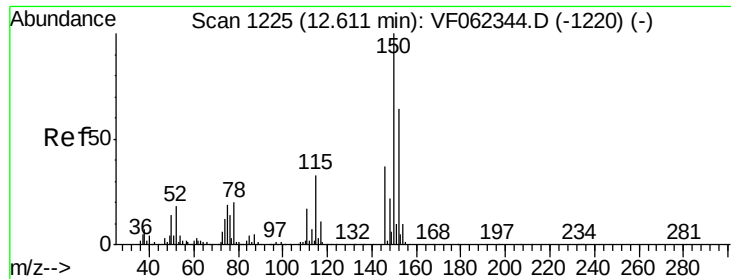
Tot Ion: 95 Resp: 136711  
Ion Ratio Lower Upper  
95 100  
174 100.4 0.0 191.8  
176 98.9 0.0 193.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 952  
Delta R.T. 0.01 min  
Lab File: VF062458.D  
Acq: 11 May 2019 14:20

Tgt Ion: 117 Resp: 308751  
Ion Ratio Lower Upper  
117 100  
82 51.9 42.2 63.2  
119 34.3 25.0 37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062458.D

Acq: 11 May 2019 14:20

Instrument :

MSVOA\_F

ClientSampleId :

C-1

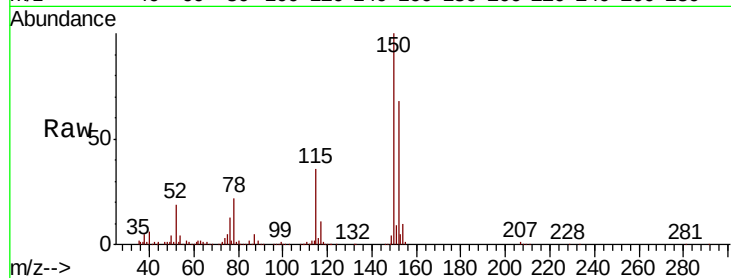
Tot Ion:152 Resp: 186704

Ion Ratio Lower Upper

152 100

115 55.4 26.4 79.2

150 149.4 0.0 335.0



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

