

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\  
 Data File : VF061852.D  
 Acq On : 5 Mar 2019 18:31  
 Operator : VA/AP  
 Sample : K1712-19RE  
 Misc : 3.61g/5mL/MSVOA-F/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 Z-2-4RE

Manual Integrations  
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MMDadoda  
 3/8/2019 12:12:22 AM

Quant Time: Mar 06 06:19:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 4.87  | 168  | 167198   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.59  | 114  | 239383   | 50.00 | ug/l   | -0.02    |
| 63) Chlorobenzene-d5        | 9.77  | 117  | 190469   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.55 | 152  | 97848    | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.84  | 65   | 43729    | 35.91 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 71.82% |          |
| 35) Dibromofluoromethane    | 4.11  | 113  | 68079    | 40.75 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 81.50% |          |
| 50) Toluene-d8              | 7.55  | 98   | 173375   | 34.92 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 69.84% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 70104    | 36.04 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 72.08% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 2.25  | 84   | 9538m    | 1.638 | ug/l   | Qvalue   |

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

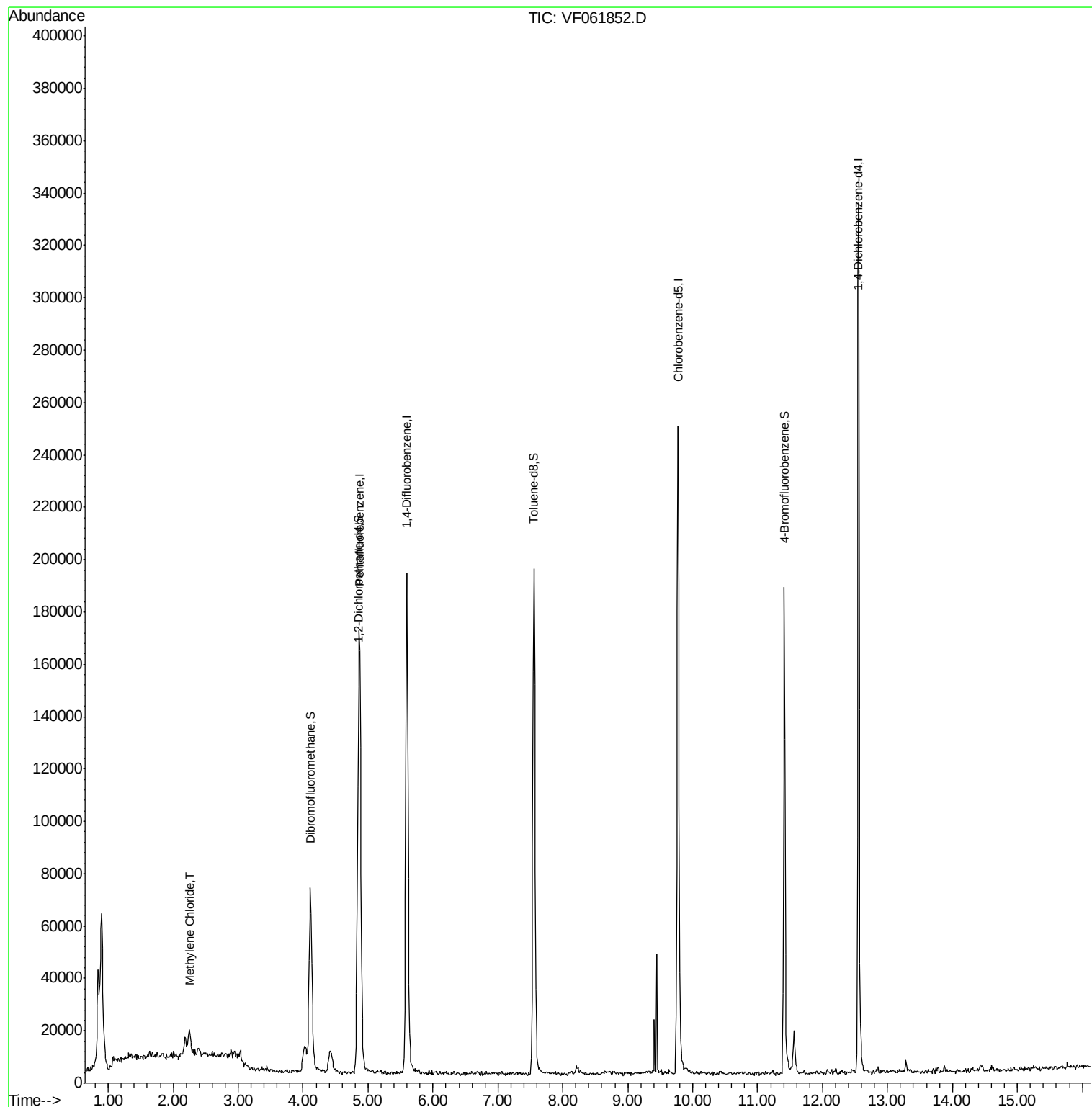
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030519\  
Data File : VF061852.D  
Acq On : 5 Mar 2019 18:31  
Operator : VA/AP  
Sample : K1712-19RE  
Misc : 3.61q/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

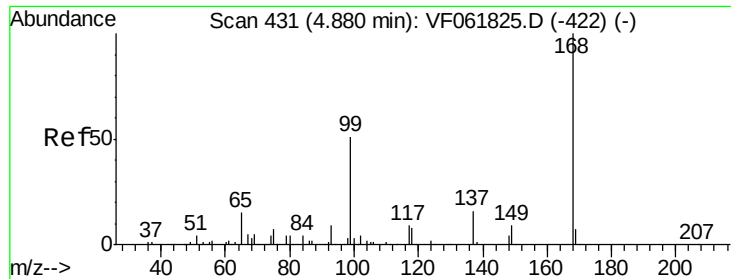
Instrument :  
MSVOA\_F  
ClientSampleId :  
Z-2-4RE

Manual Integrations  
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3/8/2019 12:12:22 AM

Quant Time: Mar 06 06:19:03 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061852.D

Acq: 5 Mar 2019 18:31

Instrument :

MSVOA\_F

ClientSampleId :

Z-2-4RE

Tot Ion:168 Resp: 167198

Ion Ratio Lower Upper

168 100

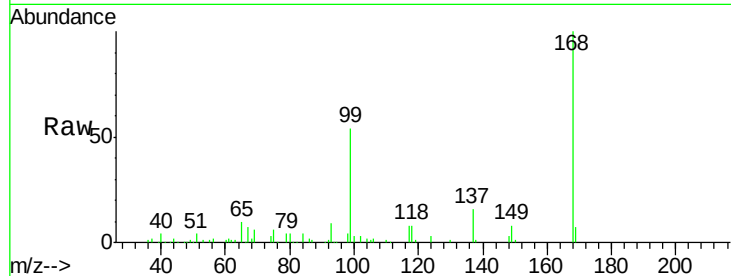
99 53.7 40.8 61.2

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

30000

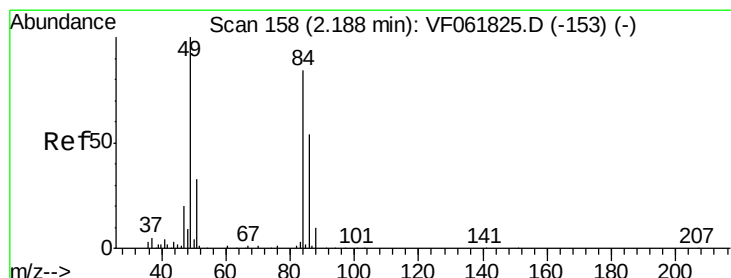
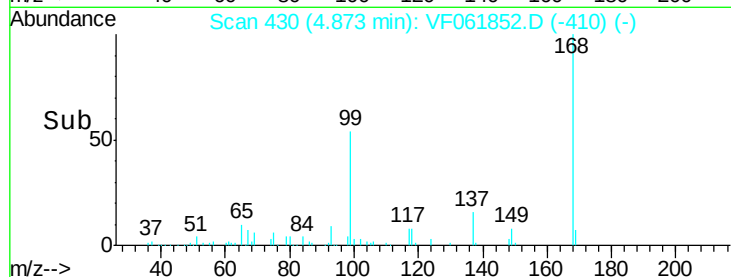
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#20

Methylene Chloride

Concen: 1.638 ug/l m

RT: 2.25 min Scan# 164

Delta R.T. 0.06 min

Lab File: VF061852.D

Acq: 5 Mar 2019 18:31

Tgt Ion: 84 Resp: 9538

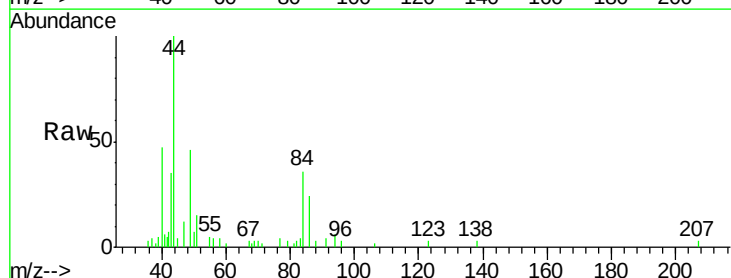
Ion Ratio Lower Upper

84 100

49 126.1 96.8 145.2

51 40.1 31.8 47.6

86 65.3 51.6 77.4



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3000

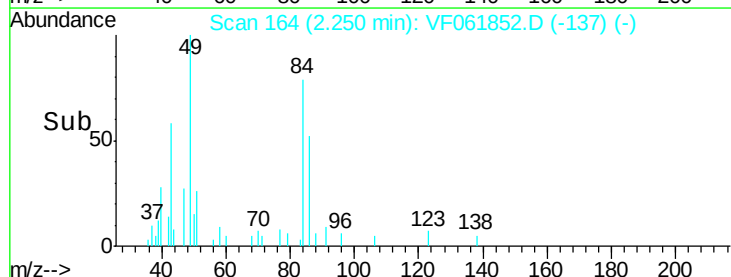
2000

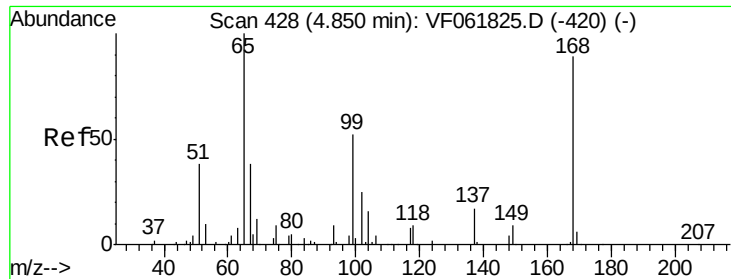
1000

0

Time-->

2.10 2.20 2.30 2.40





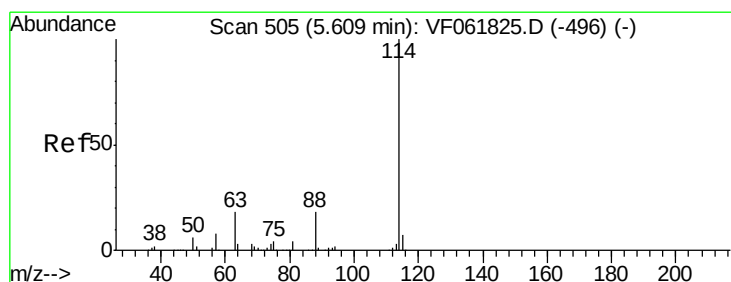
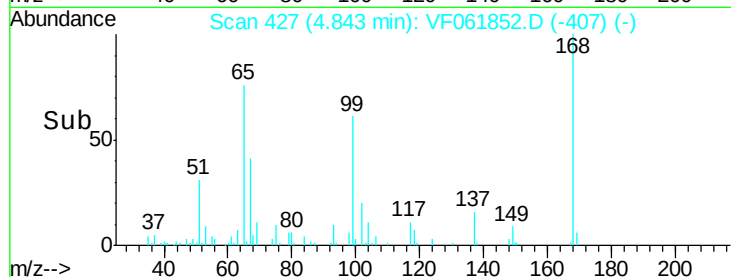
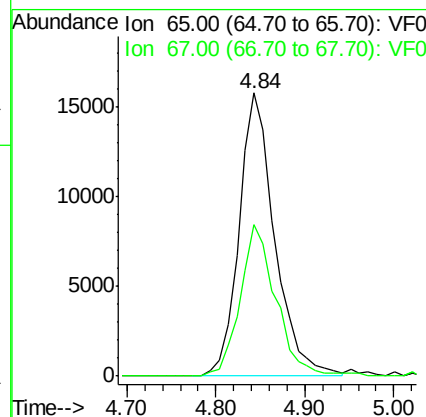
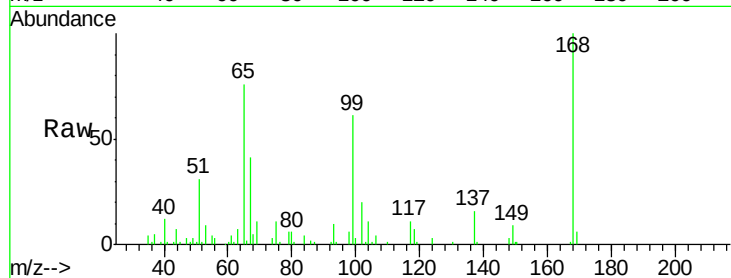
#33  
 1,2-Dichloroethane-d4  
 Concen: 35.914 ug/l  
 RT: 4.84 min Scan# 427  
 Delta R.T. -0.01 min  
 Lab File: VF061852.D  
 Acq: 5 Mar 2019 18:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 Z-2-4RE

| Tot Ion   | 65   | Resp  | 43729 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 67        | 53.4 | 0.0   | 108.6 |

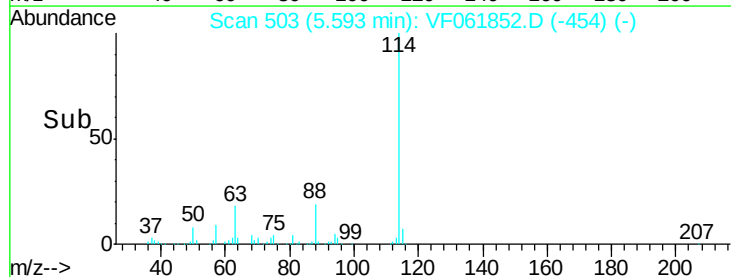
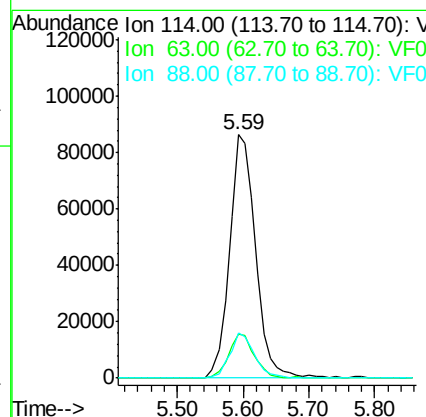
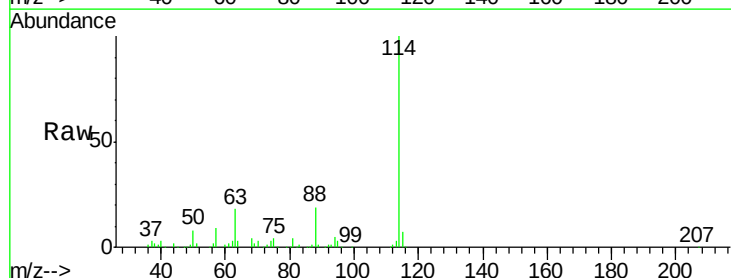
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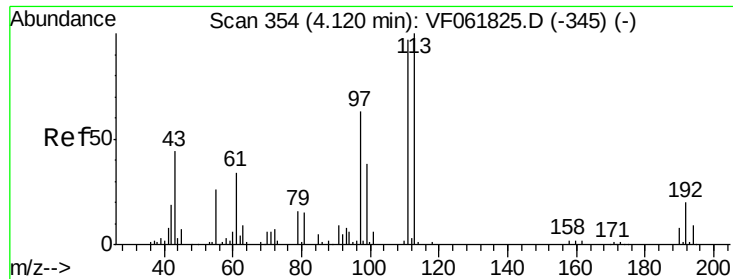
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.59 min Scan# 503  
 Delta R.T. -0.02 min  
 Lab File: VF061852.D  
 Acq: 5 Mar 2019 18:31

| Tgt Ion   | 114  | Resp  | 239383 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 63        | 17.9 | 0.0   | 35.6   |
| 88        | 18.6 | 0.0   | 35.6   |





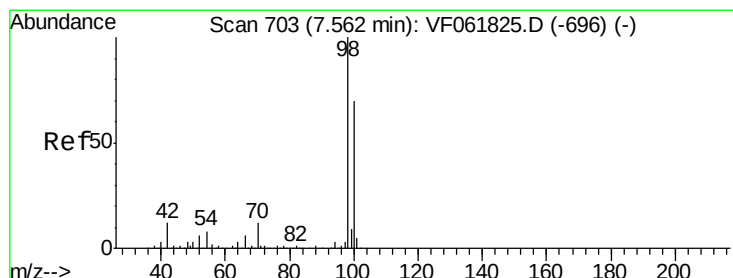
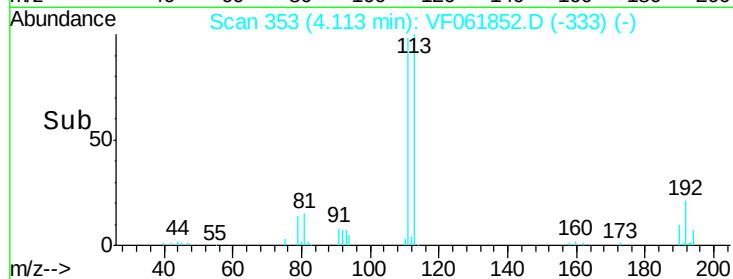
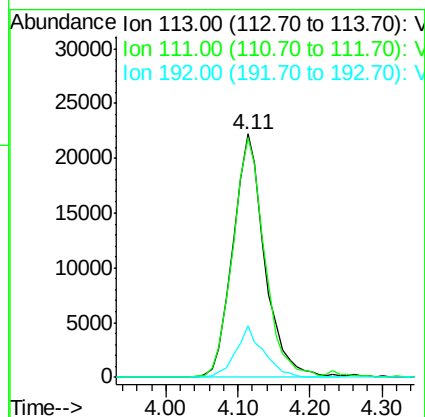
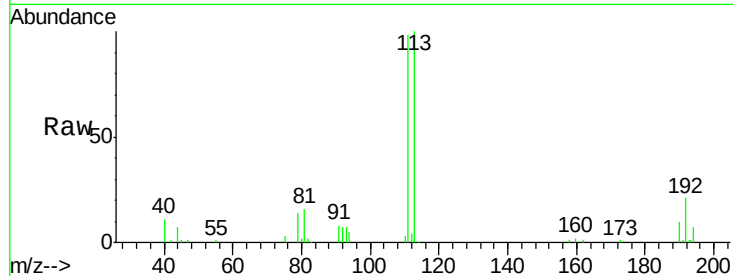
#35  
Dibromofluoromethane  
Concen: 40.752 ug/l  
RT: 4.11 min Scan# 353  
Delta R.T. -0.01 min  
Lab File: VF061852.D  
Acq: 5 Mar 2019 18:31

Instrument :  
MSVOA\_F  
ClientSampleId :  
Z-2-4RE

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 113     | 100  |       | 68079 |       |       |
| 111     | 98.5 | 77.6  |       | 116.4 |       |
| 192     | 21.9 | 15.9  |       | 23.9  |       |

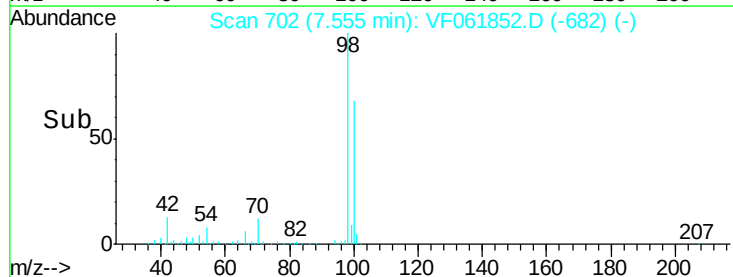
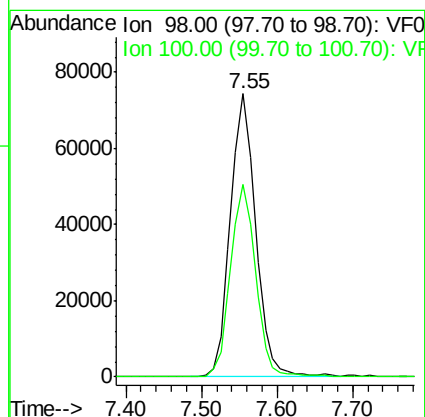
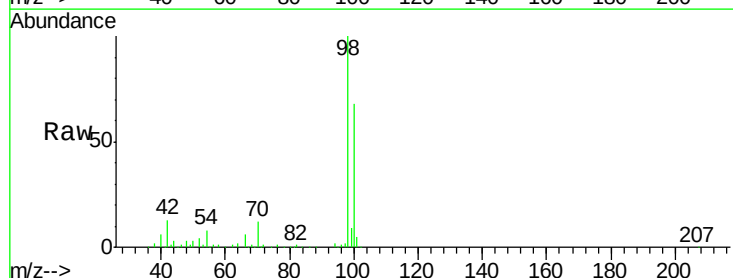
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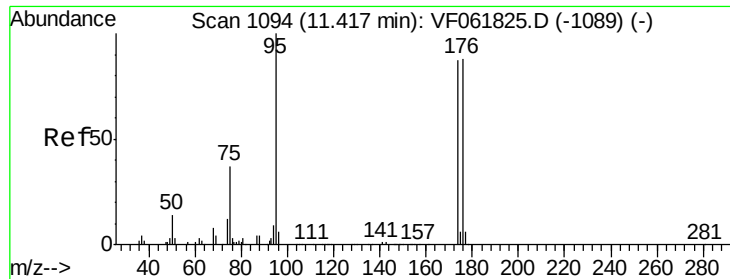
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#50  
Toluene-d8  
Concen: 34.916 ug/l  
RT: 7.55 min Scan# 702  
Delta R.T. -0.01 min  
Lab File: VF061852.D  
Acq: 5 Mar 2019 18:31

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 98      | 100  |       | 173375 |       |       |
| 100     | 68.1 | 56.0  |        | 84.0  |       |





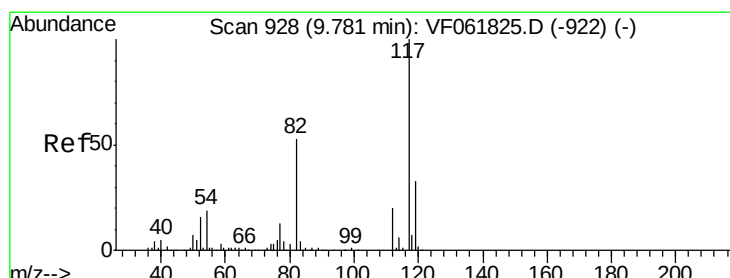
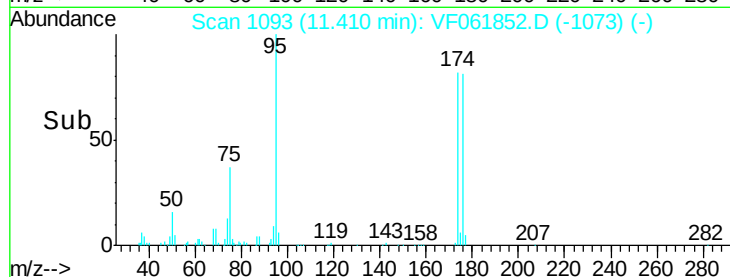
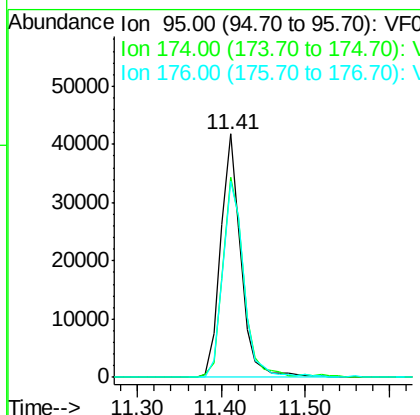
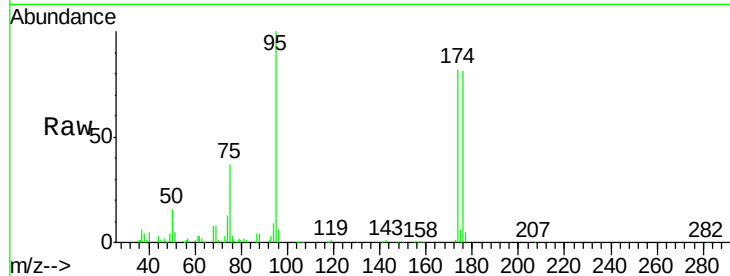
#62  
4-Bromofluorobenzene  
Concen: 36.041 ug/l  
RT: 11.41 min Scan# 1093  
Delta R.T. -0.01 min  
Lab File: VF061852.D  
Acq: 5 Mar 2019 18:31

Instrument :  
MSVOA\_F  
ClientSampleId :  
Z-2-4RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 82.2  | 0.0   | 174.0 |
| 176     | 80.8  | 0.0   | 175.2 |

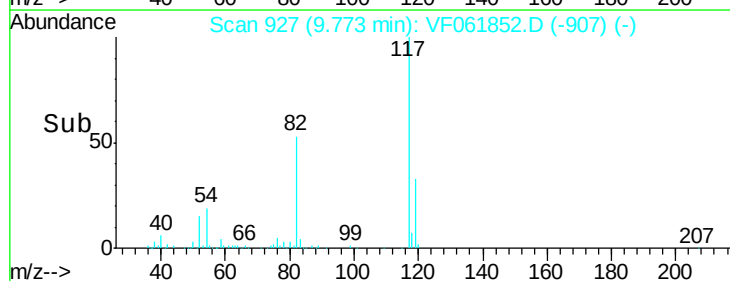
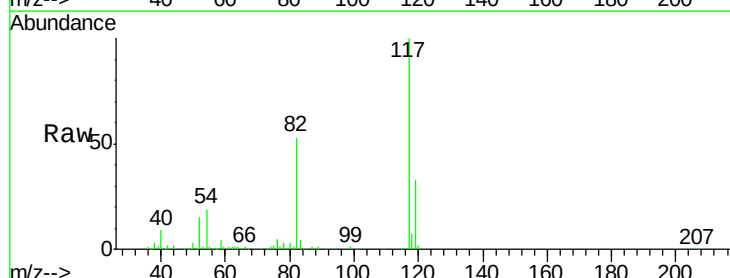
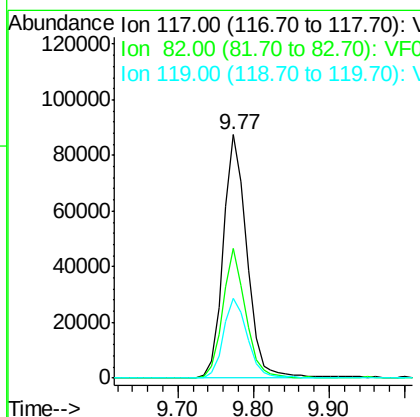
Manual Integrations  
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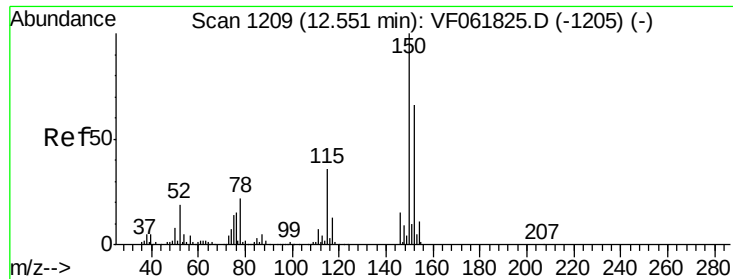
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#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.01 min  
Lab File: VF061852.D  
Acq: 5 Mar 2019 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.3  | 42.6  | 63.8  |
| 119     | 32.7  | 26.0  | 39.0  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061852.D

Acq: 5 Mar 2019 18:31

Instrument :

MSVOA\_F

ClientSampleId :

Z-2-4RE

Tot Ion:152 Resp: 97848

Ion Ratio Lower Upper

152 100

115 51.7 27.7 83.1

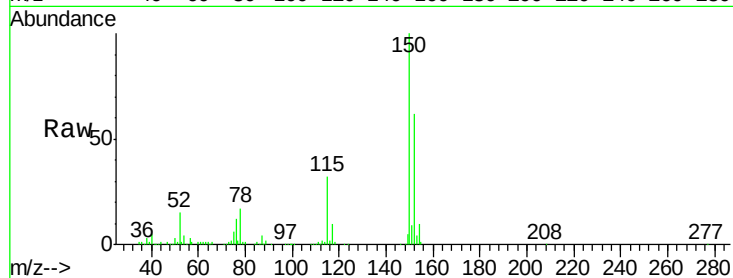
150 162.4 0.0 304.2

Manual Integrations

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3/8/2019 12:12:22 AM



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

