

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
 Data File : VF061694.D  
 Acq On : 21 Feb 2019 13:11  
 Operator : VA/AP  
 Sample : VF0221SBL01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0221SBL01

Manual Integrations  
 APPROVED

MMDadoda  
 2/22/2019 12:27:39 PM

Quant Time: Feb 22 03:36:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 03:27:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 357522   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 540298   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 452917   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 272834   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |         |      |
|---------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 4.85  | 65  | 143767   | 54.84 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =     | 109.68% |      |
| 35) Dibromofluoromethane  | 4.12  | 113 | 211660   | 52.75 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =     | 105.50% |      |
| 50) Toluene-d8            | 7.56  | 98  | 568425   | 49.28 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =     | 98.56%  |      |
| 62) 4-Bromofluorobenzene  | 11.41 | 95  | 245538   | 52.61 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =     | 105.22% |      |

| Target Compounds       |      |    |        |       | Qvalue |
|------------------------|------|----|--------|-------|--------|
| 20) Methylene Chloride | 2.18 | 84 | 17276m | 3.381 | ug/l   |

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

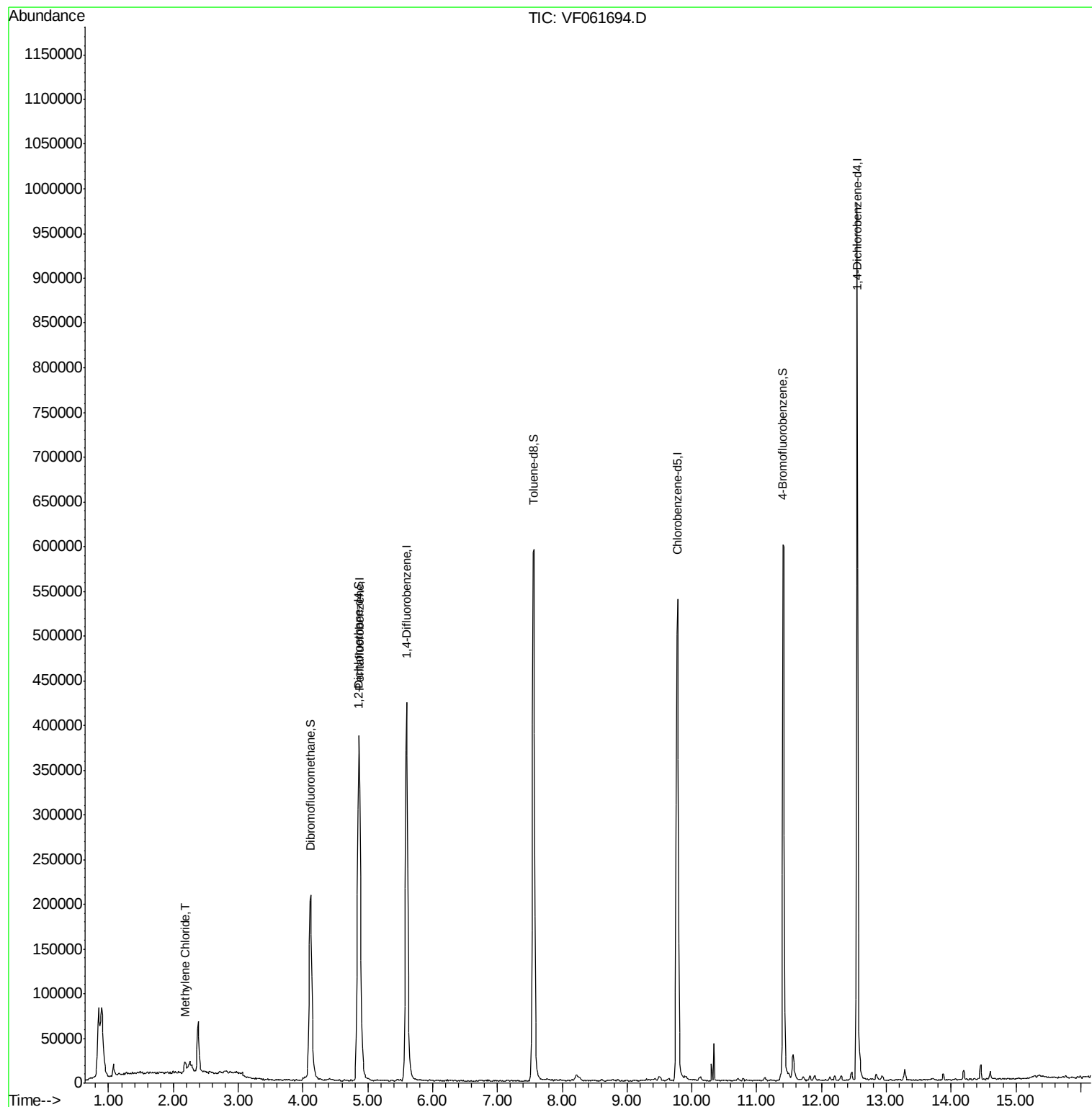
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061694.D  
Acq On : 21 Feb 2019 13:11  
Operator : VA/AP  
Sample : VF0221SBL01  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 3 Sample Multiplier: 1

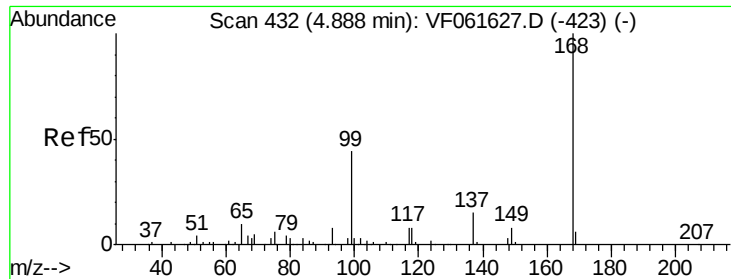
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0221SBL01

Manual Integrations  
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2/22/2019 12:27:39 PM

Quant Time: Feb 22 03:36:15 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:27:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061694.D

Acq: 21 Feb 2019 13:11

Instrument :

MSVOA\_F

ClientSampleId :

VF0221SBL01

Tot Ion:168 Resp: 357522

Ion Ratio Lower Upper

168 100

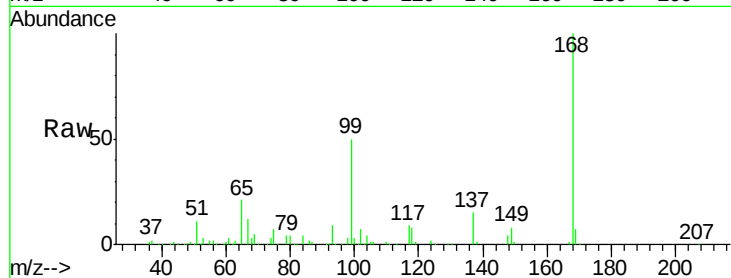
99 50.5 34.9 52.3

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

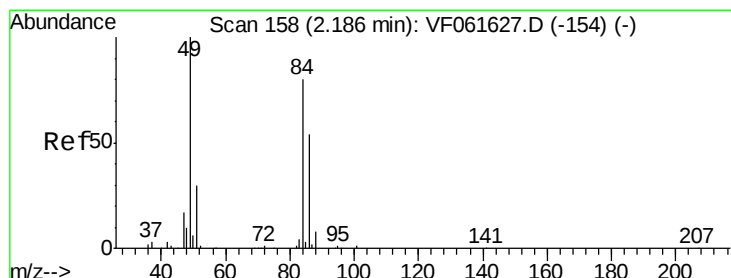
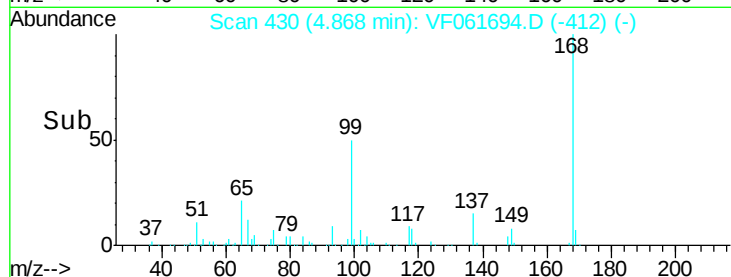
4.87

100000

50000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#20

Methylene Chloride

Concen: 3.381 ug/l m

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF061694.D

Acq: 21 Feb 2019 13:11

Tgt Ion: 84 Resp: 17276

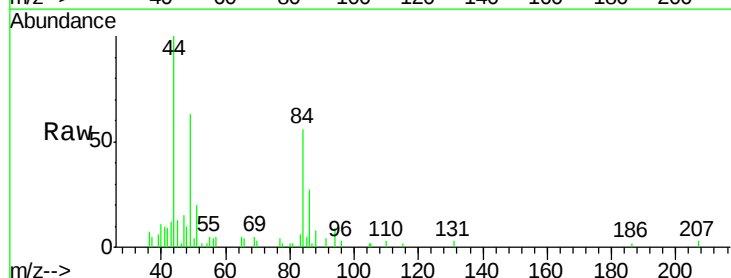
Ion Ratio Lower Upper

84 100

49 112.9 101.8 152.8

51 36.4 31.1 46.7

86 49.0 54.4 81.6#



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

2.18

6000

5000

4000

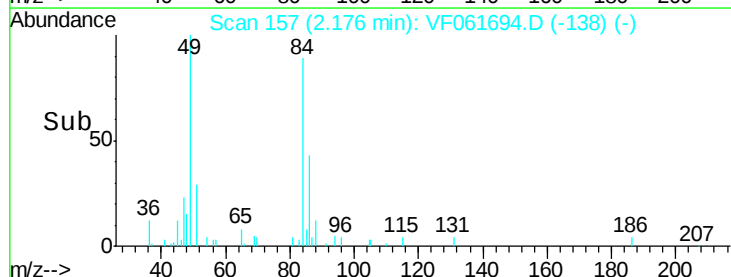
3000

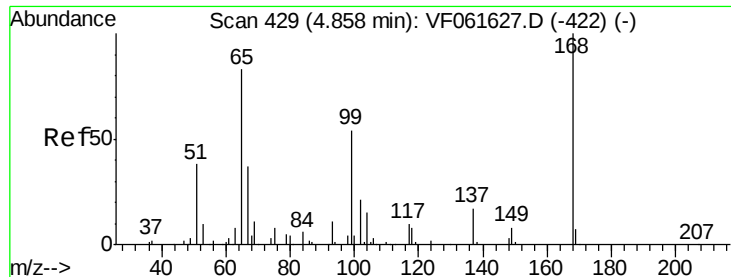
2000

1000

0

Time--> 2.10 2.20 2.30 2.40





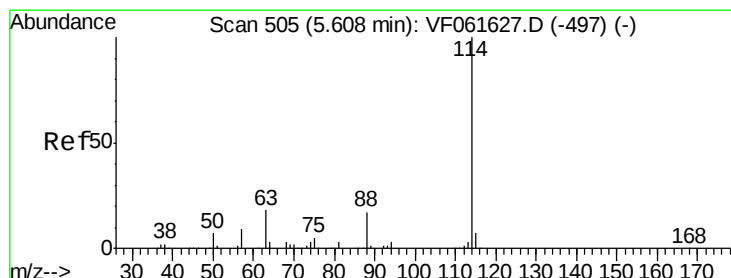
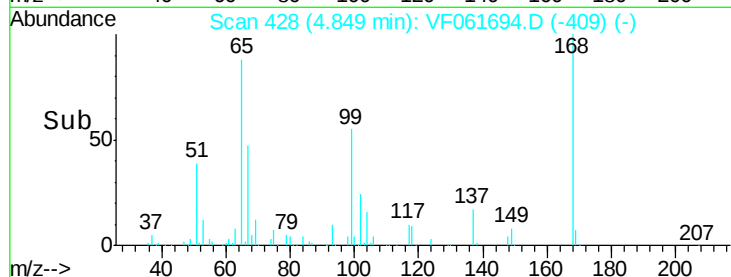
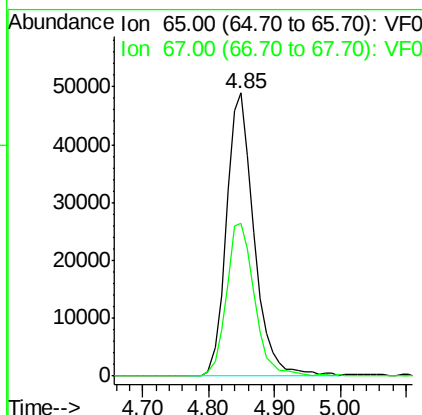
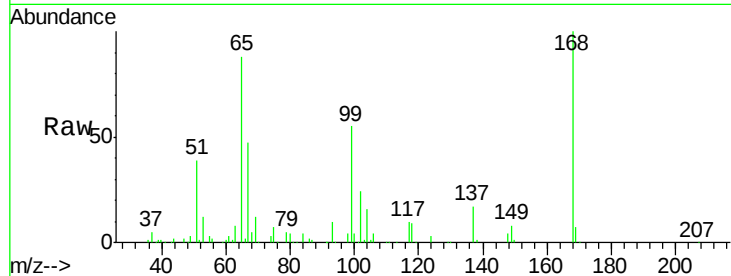
#33  
 1,2-Dichloroethane-d4  
 Concen: 54.836 ug/l  
 RT: 4.85 min Scan# 428  
 Delta R.T. -0.01 min  
 Lab File: VF061694.D  
 Acq: 21 Feb 2019 13:11

Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 VF0221SBL01

Tot Ion: 65 Resp: 143767  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 104.0

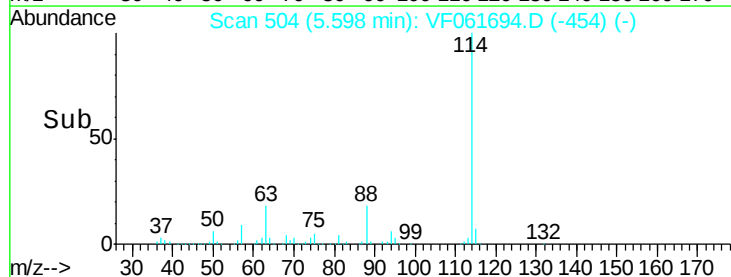
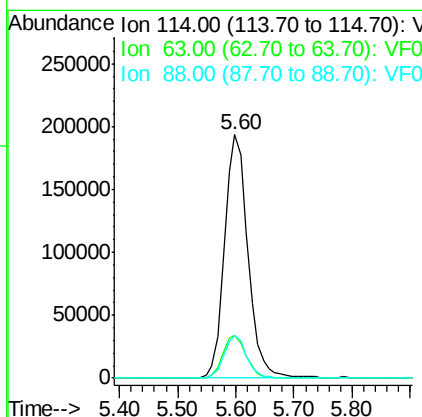
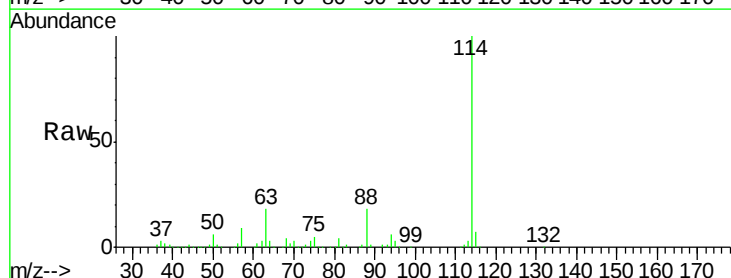
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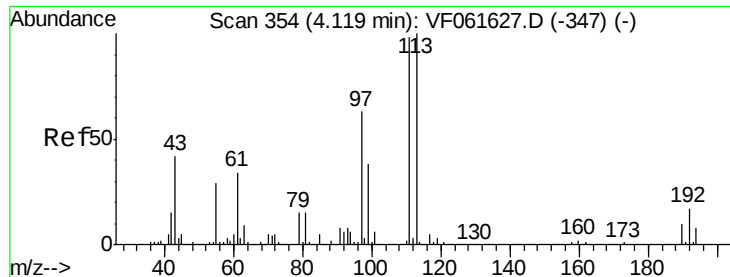
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.60 min Scan# 504  
 Delta R.T. -0.01 min  
 Lab File: VF061694.D  
 Acq: 21 Feb 2019 13:11

Tgt Ion: 114 Resp: 540298  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 36.6  
 88 17.5 0.0 34.4





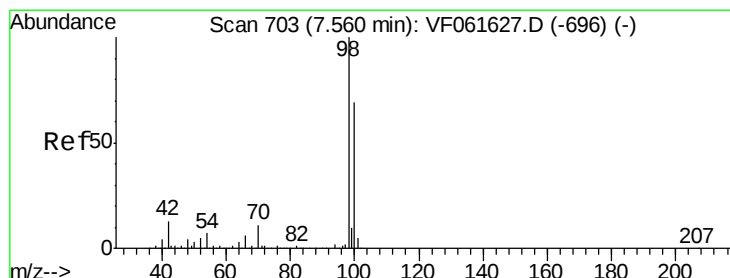
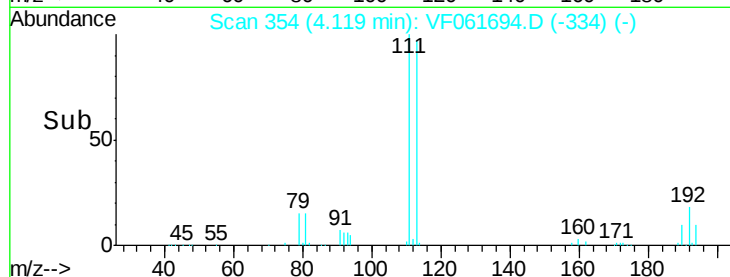
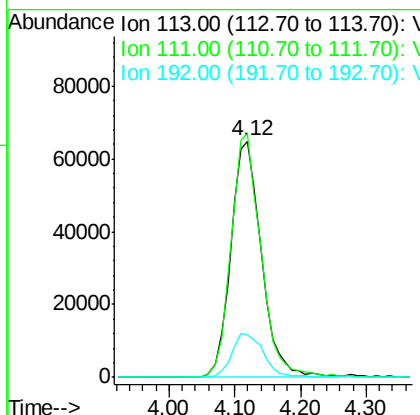
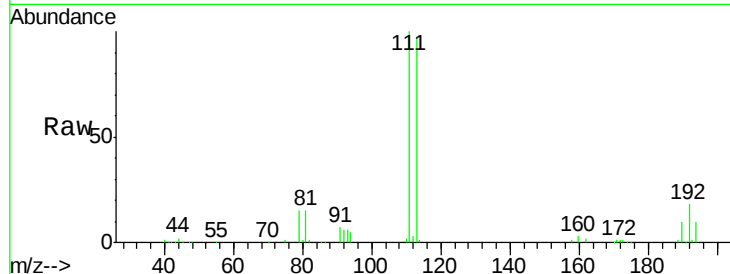
#35  
Dibromofluoromethane  
Concen: 52.753 ug/l  
RT: 4.12 min Scan# 354  
Delta R.T. 0.00 min  
Lab File: VF061694.D  
Acq: 21 Feb 2019 13:11

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0221SBL01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 211660 |       |       |
| 111     | 103.1 | 78.8   | 118.2 |       |
| 192     | 18.2  | 13.4   | 20.0  |       |

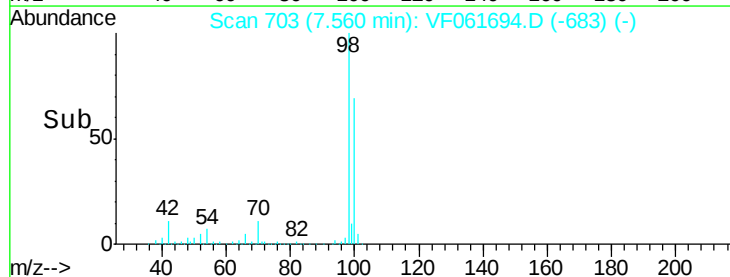
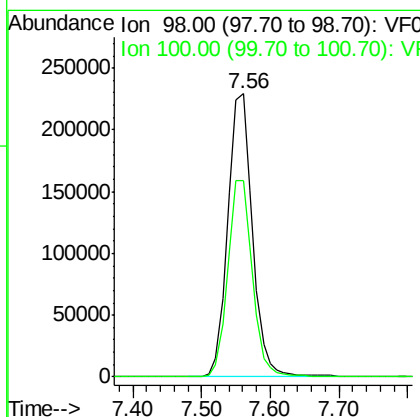
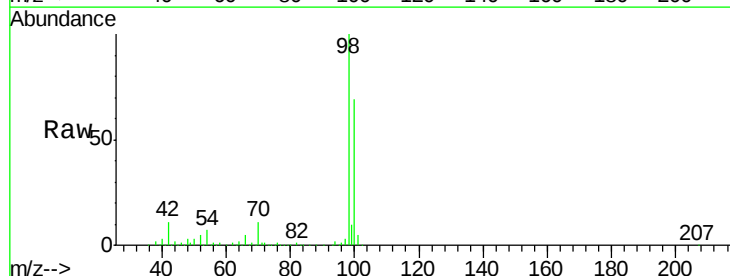
Manual Integrations  
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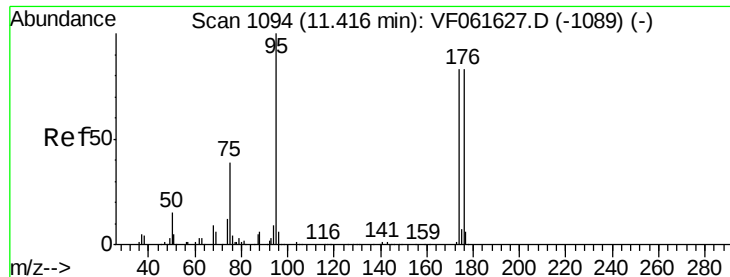
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#50  
Toluene-d8  
Concen: 49.282 ug/l  
RT: 7.56 min Scan# 703  
Delta R.T. 0.00 min  
Lab File: VF061694.D  
Acq: 21 Feb 2019 13:11

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 98      | 100   | 568425 |       |       |
| 100     | 69.4  | 55.4   | 83.2  |       |





#62

4-Bromofluorobenzene

Concen: 52.612 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061694.D

Acq: 21 Feb 2019 13:11

Instrument :

MSVOA\_F

ClientSampleId :

VF0221SBL01

Tot Ion: 95 Resp: 24538

Ion Ratio Lower Upper

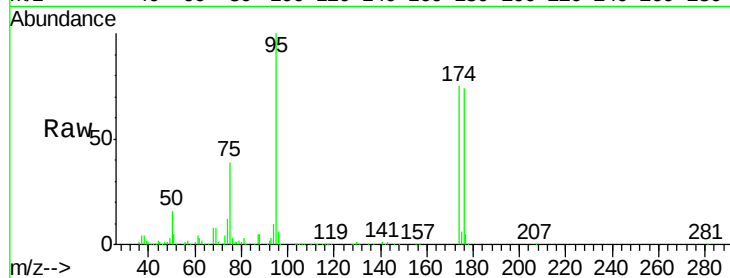
95 100

174 75.3 0.0 165.8

176 73.6 0.0 167.0

Manual Integrations  
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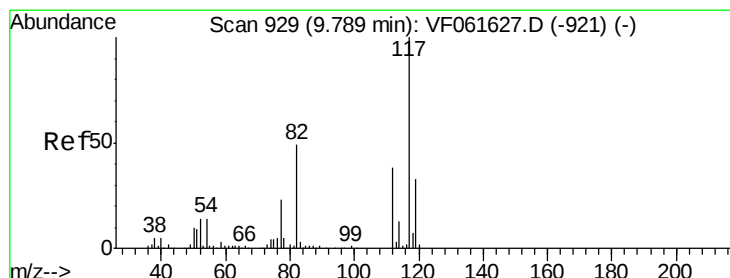
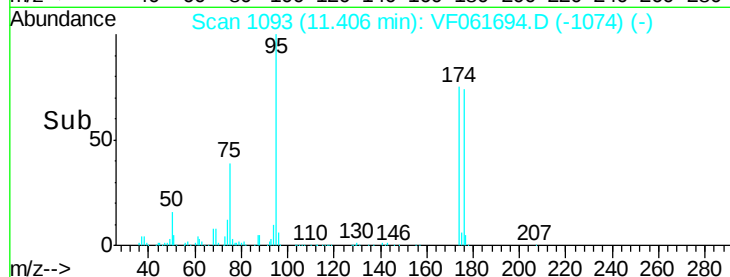
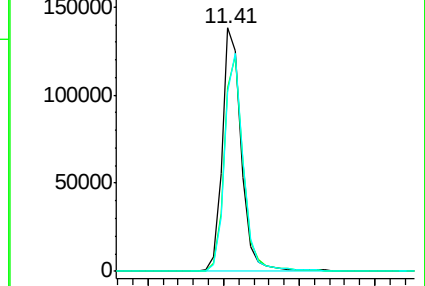
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2/22/2019 12:27:39 PM



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.01 min

Lab File: VF061694.D

Acq: 21 Feb 2019 13:11

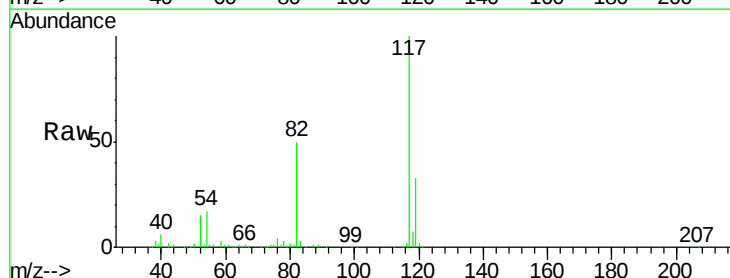
Tgt Ion: 117 Resp: 452917

Ion Ratio Lower Upper

117 100

82 49.7 39.3 58.9

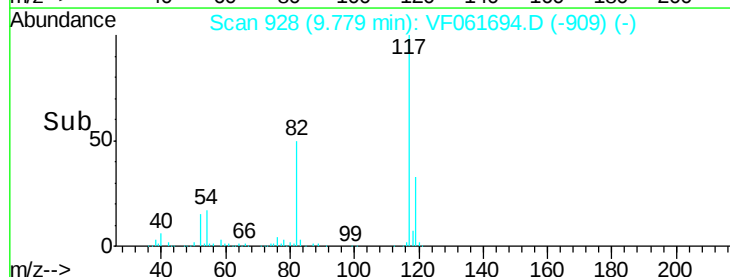
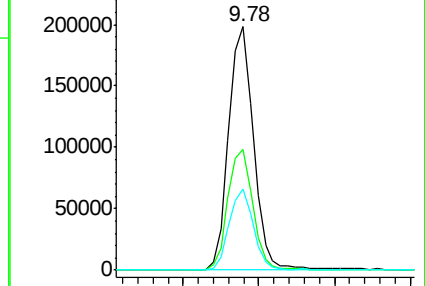
119 33.1 26.6 40.0

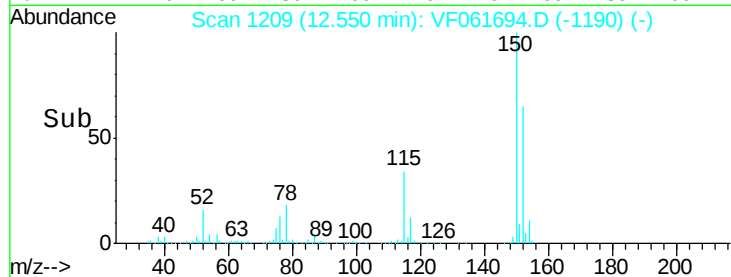
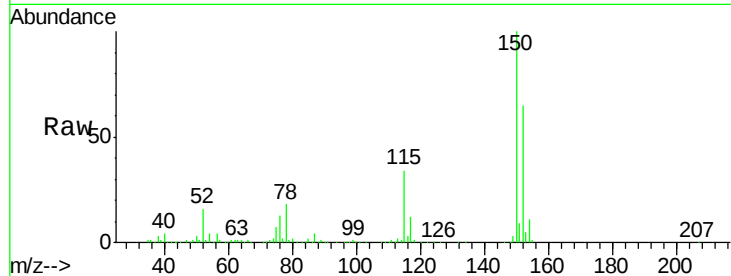
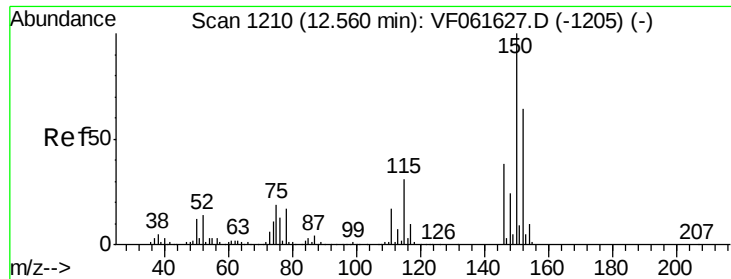


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061694.D

Acq: 21 Feb 2019 13:11

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 272834 |       |       |
| 115     | 52.0  |        | 24.3  | 72.8  |
| 150     | 152.9 |        | 0.0   | 312.0 |

Instrument :

MSVOA\_F

ClientSampleId :

VF0221SBL01

Manual Integrations  
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