

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032619\  
 Data File : VF062151.D  
 Acq On : 26 Mar 2019 17:41  
 Operator : VA/AP  
 Sample : K2091-01RE  
 Misc : 5.42g/5mL/MSVOA-F/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 DRUM-COMPRES

Manual Integrations  
 APPROVED

MMDadoda  
 3/27/2019 12:01:42 PM

Quant Time: Mar 27 09:57:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 01:16:37 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 4.86  | 168  | 222708   | 50.00 | ug/l   | -0.05    |
| 34) 1,4-Difluorobenzene     | 5.58  | 114  | 350275   | 50.00 | ug/l   | -0.05    |
| 63) Chlorobenzene-d5        | 9.76  | 117  | 239020   | 50.00 | ug/l   | -0.05    |
| 72) 1,4-Dichlorobenzene-d4  | 12.54 | 152  | 82861    | 50.00 | ug/l   | -0.03    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 70430    | 42.52 | ug/l   | -0.05    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 85.04% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 99659    | 42.06 | ug/l   | -0.05    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.12% |          |
| 50) Toluene-d8              | 7.54  | 98   | 227843   | 32.21 | ug/l   | -0.05    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 64.42% |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 71769    | 26.28 | ug/l   | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 52.56% |          |
| Target Compounds            |       |      |          |       |        |          |
| 68) m/p-Xylenes             | 10.11 | 106  | 11701    | 4.025 | ug/l   | 94       |
| 69) o-Xylene                | 10.70 | 106  | 7674     | 2.521 | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene  | 11.81 | 105  | 11862m   | 2.473 | ug/l   |          |
| 84) 1,2,4-Trimethylbenzene  | 12.19 | 105  | 45780m   | 9.737 | ug/l   |          |

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

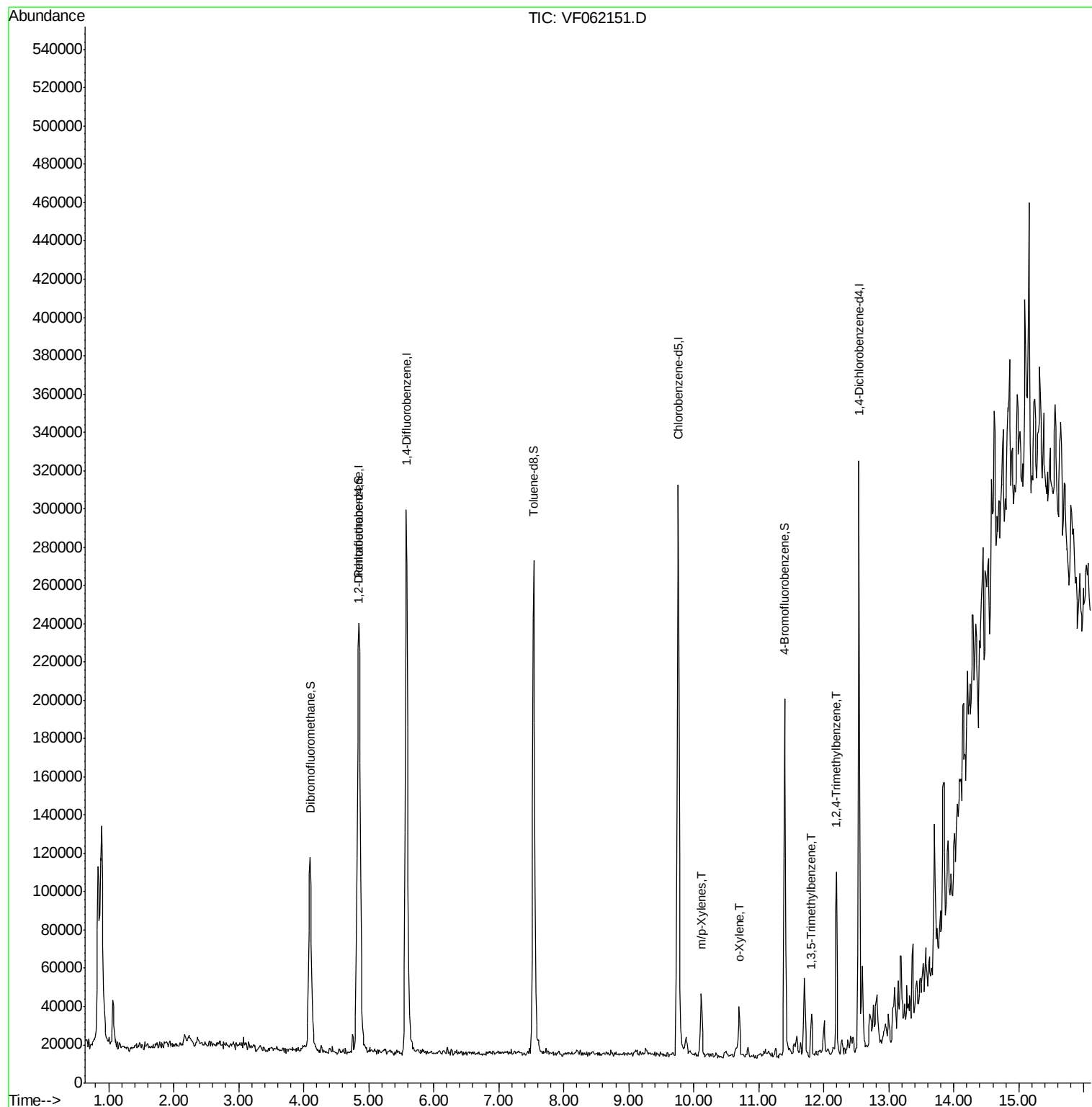
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032619\  
Data File : VF062151.D  
Acq On : 26 Mar 2019 17:41  
Operator : VA/AP  
Sample : K2091-01RE  
Misc : 5.42g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

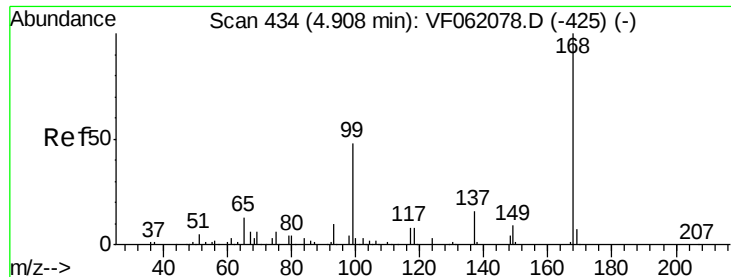
Instrument :  
MSVOA\_F  
ClientSampleId :  
DRUM-COMPRES

Manual Integrations  
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3/27/2019 12:01:42 PM

Quant Time: Mar 27 09:57:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 23 01:16:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA\_F

ClientSampleId :

DRUM-COMPRES

Tot Ion:168 Resp: 222708

Ion Ratio Lower Upper

168 100

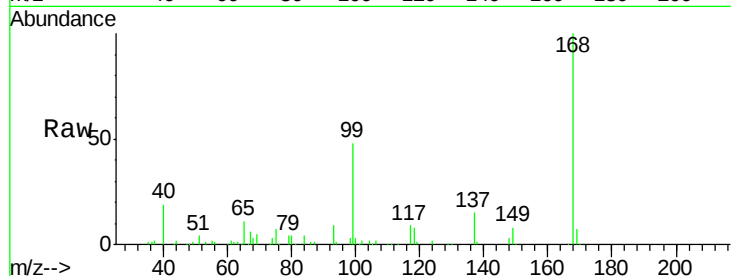
99 48.0 38.2 57.4

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

4.86

80000

60000

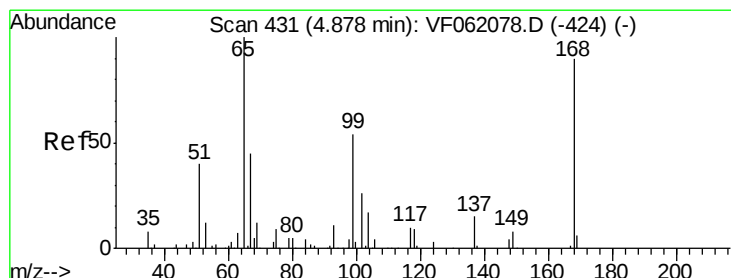
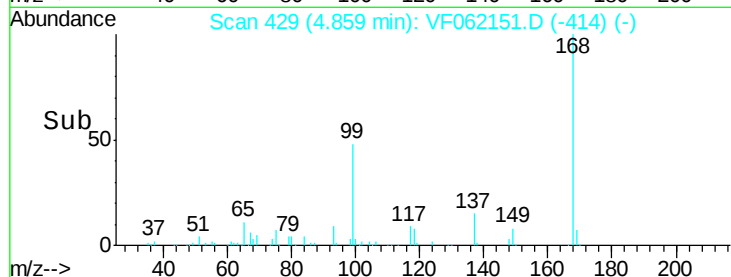
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 42.517 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF062151.D

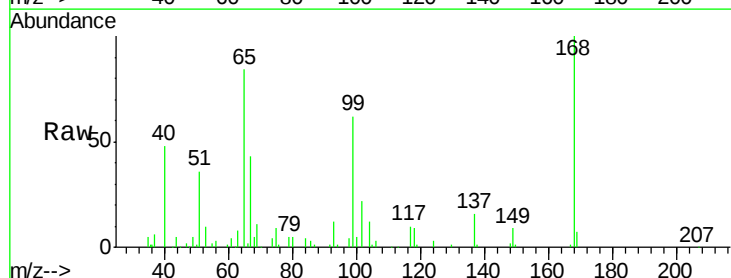
Acq: 26 Mar 2019 17:41

Tgt Ion: 65 Resp: 70430

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.83

25000

20000

15000

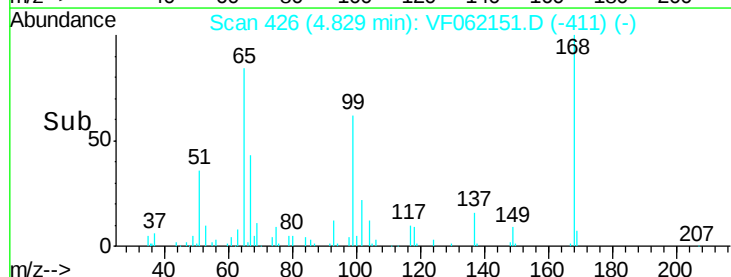
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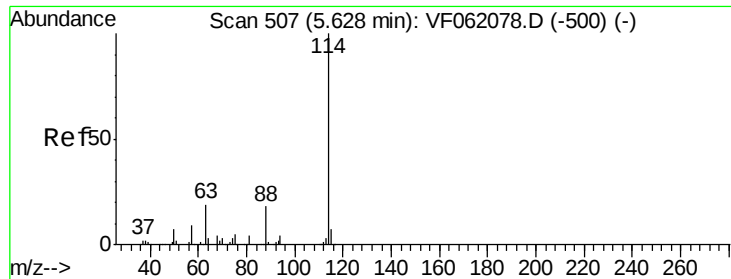
5000

0

4.70 4.80 4.90 5.00

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA\_F

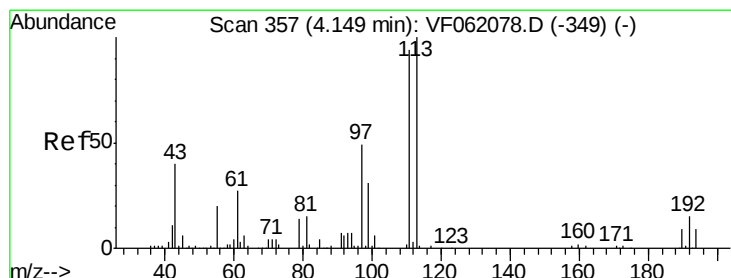
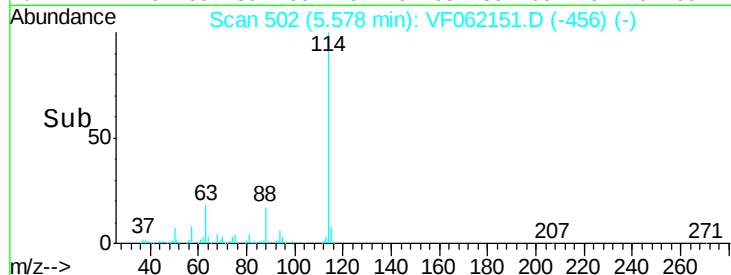
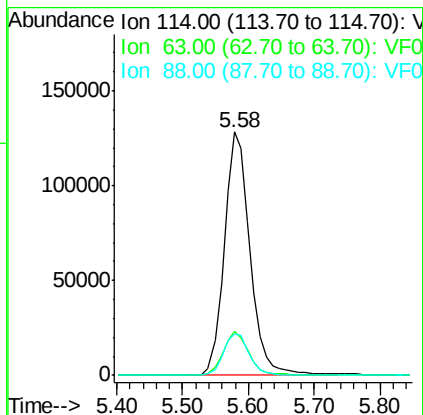
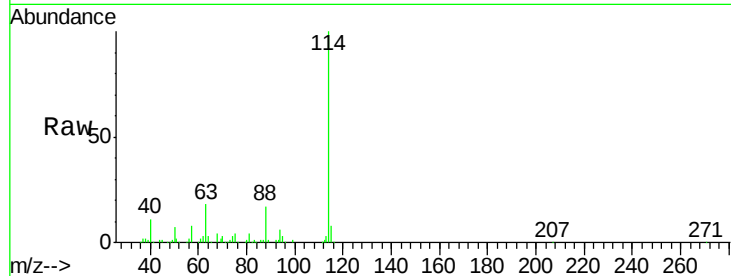
ClientSampleId :

DRUM-COMPRES

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 350275 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 18.2  | 0.0   | 37.8   |
| 88        | 16.8  | 0.0   | 36.4   |

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#35

Dibromofluoromethane

Concen: 42.060 ug/l

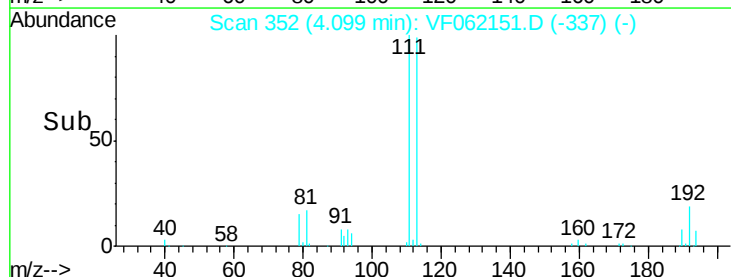
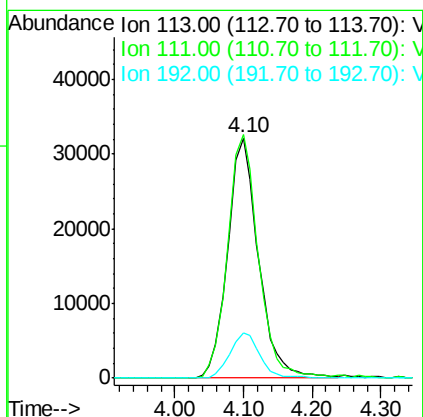
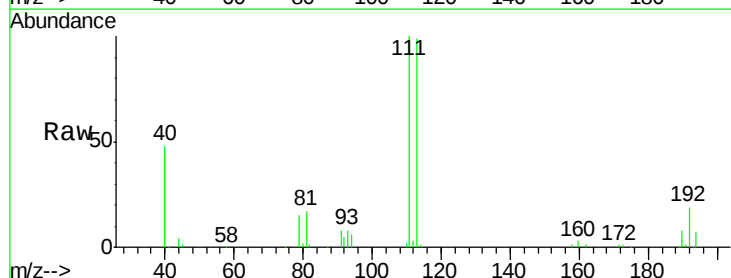
RT: 4.10 min Scan# 352

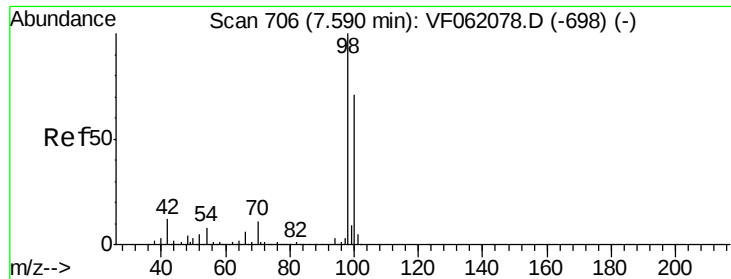
Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 99659 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 101.5 | 75.4  | 113.0 |
| 192       | 19.0  | 12.3  | 18.5# |





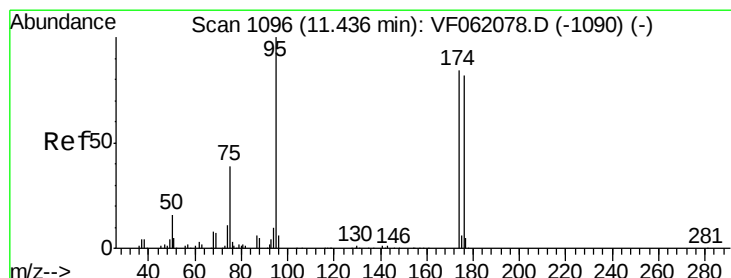
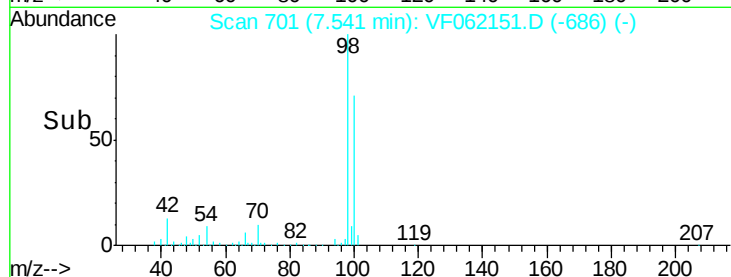
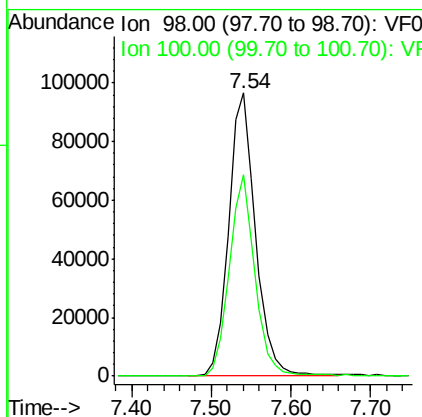
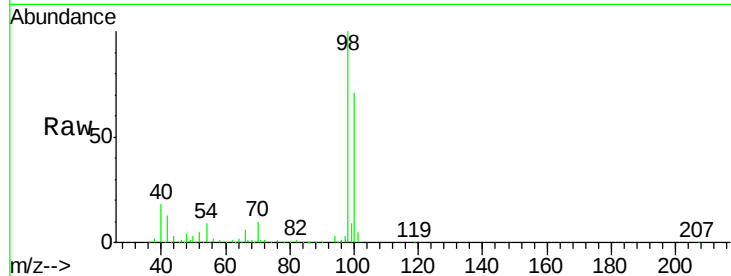
#50  
Toluene-d8  
Concen: 32.213 ug/l  
RT: 7.54 min Scan# 701  
Delta R.T. -0.05 min  
Lab File: VF062151.D  
Acq: 26 Mar 2019 17:41

Instrument :  
MSVOA\_F  
ClientSampleId :  
DRUM-COMPRES

Tot Ion: 98 Resp: 227843  
Ion Ratio Lower Upper  
98 100  
100 71.1 57.0 85.6

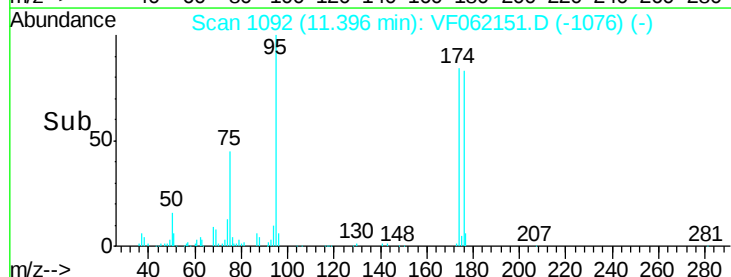
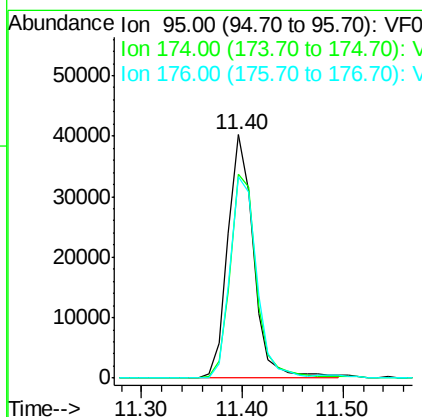
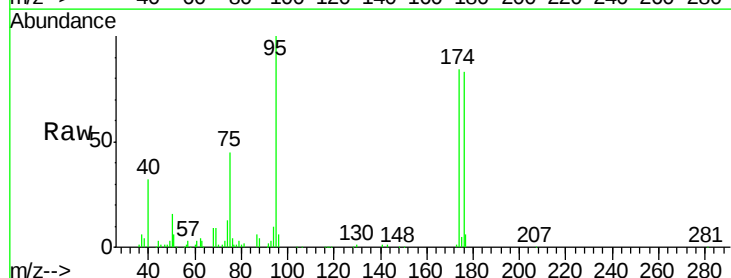
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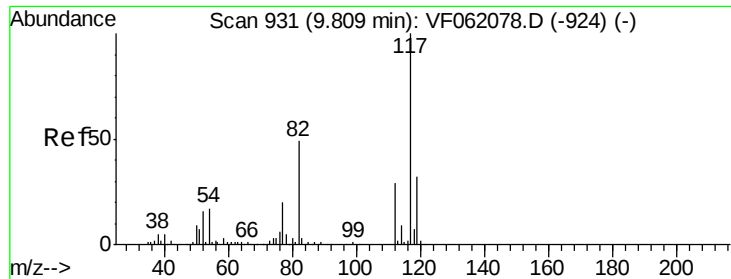
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#62  
4-Bromofluorobenzene  
Concen: 26.284 ug/l  
RT: 11.40 min Scan# 1092  
Delta R.T. -0.04 min  
Lab File: VF062151.D  
Acq: 26 Mar 2019 17:41

Tgt Ion: 95 Resp: 71769  
Ion Ratio Lower Upper  
95 100  
174 84.0 0.0 168.2  
176 82.9 0.0 164.2





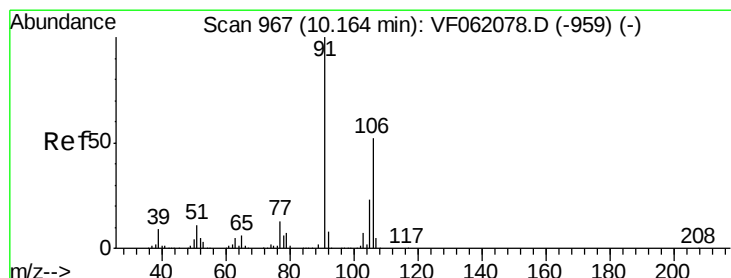
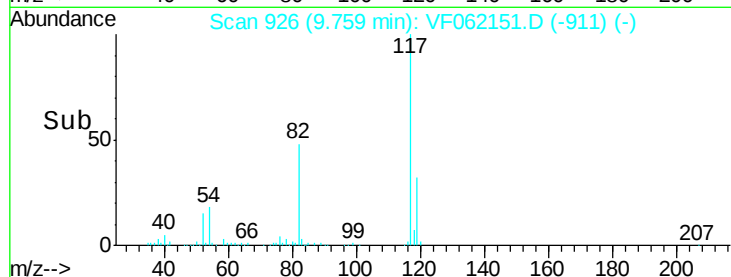
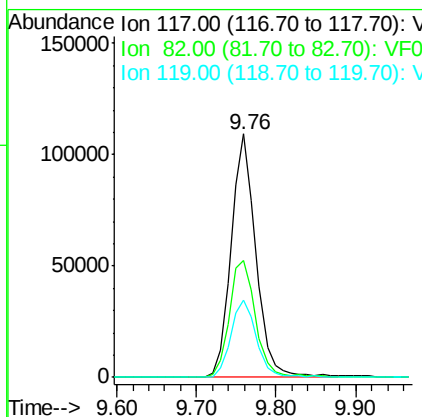
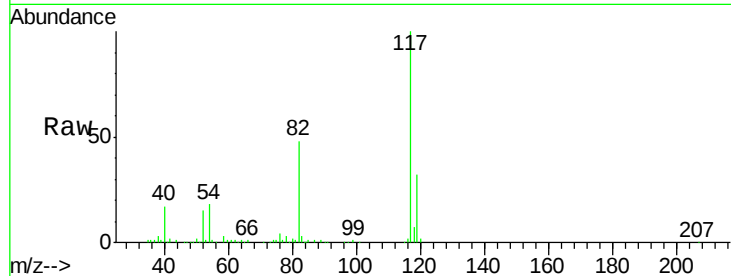
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.76 min Scan# 926  
Delta R.T. -0.05 min  
Lab File: VF062151.D  
Acq: 26 Mar 2019 17:41

Instrument :  
MSVOA\_F  
ClientSampleId :  
DRUM-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 239020 |       |       |
| 82      | 48.1  |        | 39.2  | 58.8  |
| 119     | 31.9  |        | 25.4  | 38.2  |

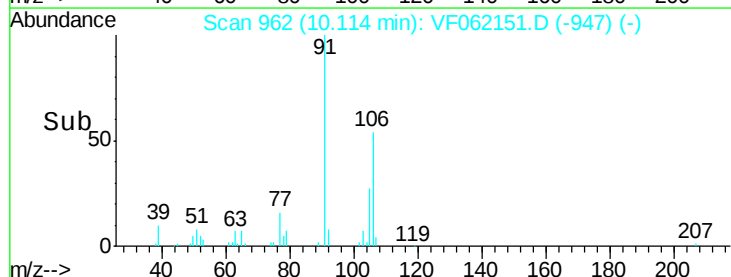
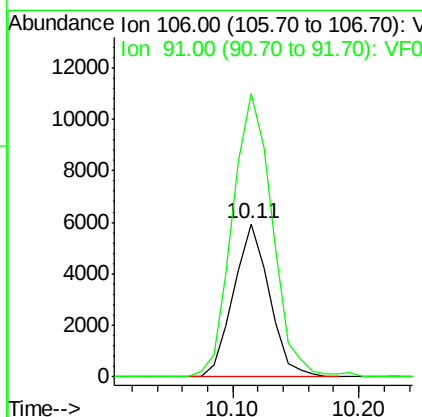
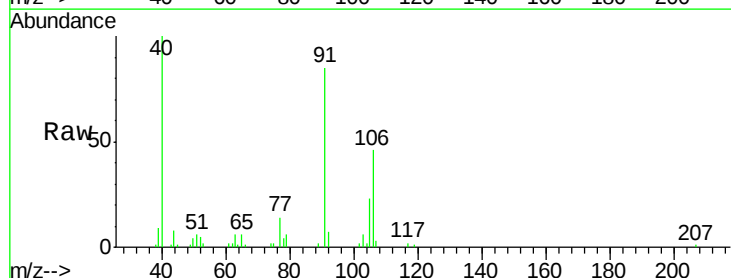
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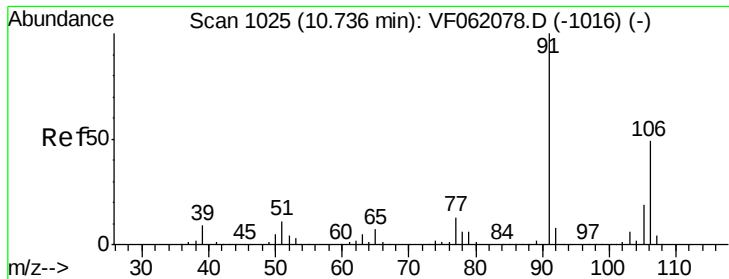
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#68  
m/p-Xylenes  
Concen: 4.025 ug/l  
RT: 10.11 min Scan# 962  
Delta R.T. -0.05 min  
Lab File: VF062151.D  
Acq: 26 Mar 2019 17:41

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 106     | 100   | 11701 |       |       |
| 91      | 184.7 |       | 154.4 | 231.6 |





#69

o-Xylene

Concen: 2.521 ug/l

RT: 10.70 min Scan# 1021

Delta R.T. -0.04 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA\_F

ClientSampleId :

DRUM-COMP

Tot Ion:106 Resp: 7674

Ion Ratio Lower Upper

106 100

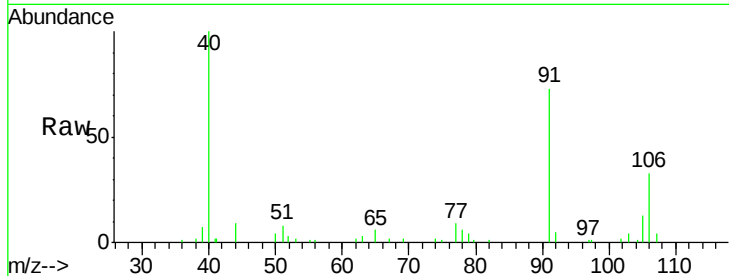
91 219.4 102.6 307.8

Manual Integrations

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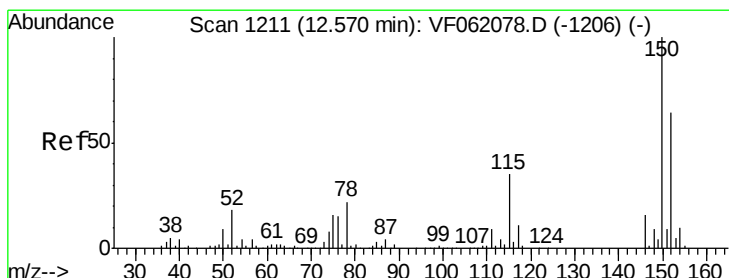
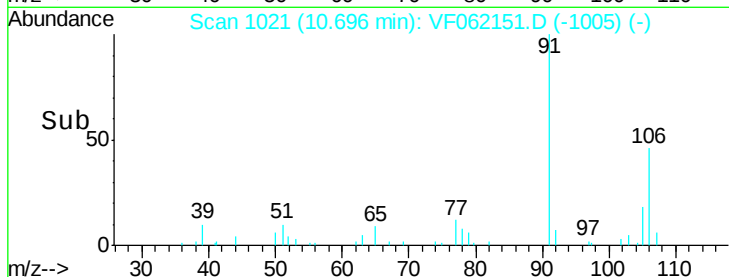
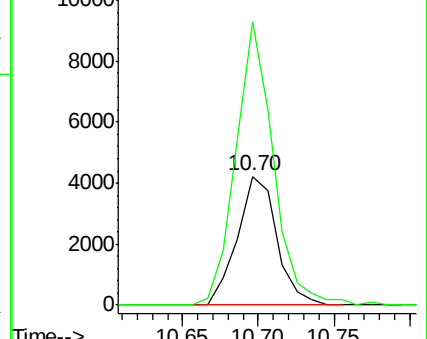
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

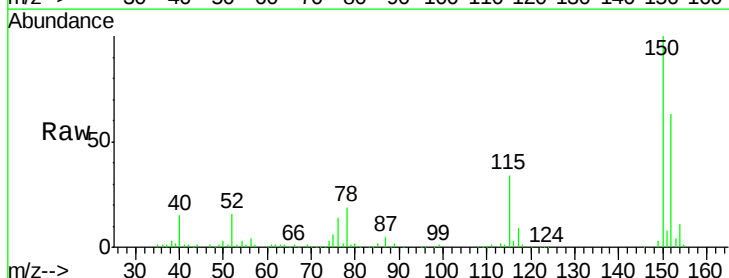
Tgt Ion:152 Resp: 82861

Ion Ratio Lower Upper

152 100

115 54.2 27.7 83.1

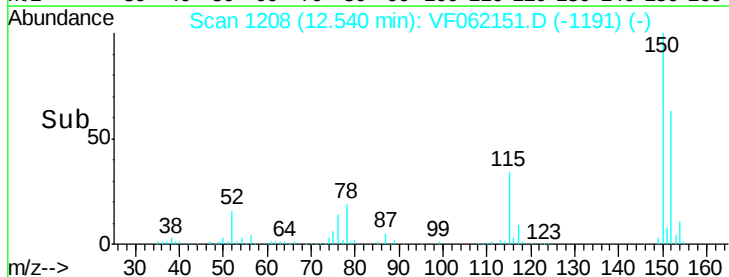
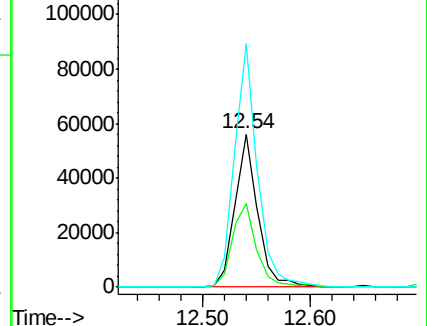
150 158.9 0.0 313.2

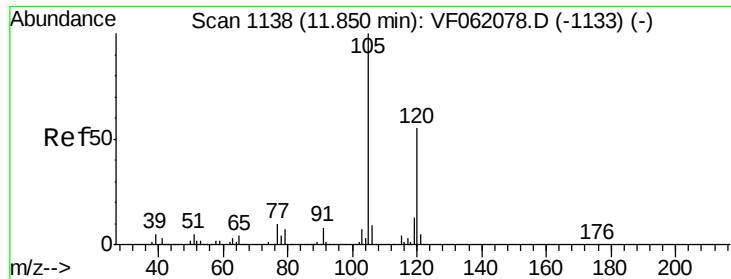


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





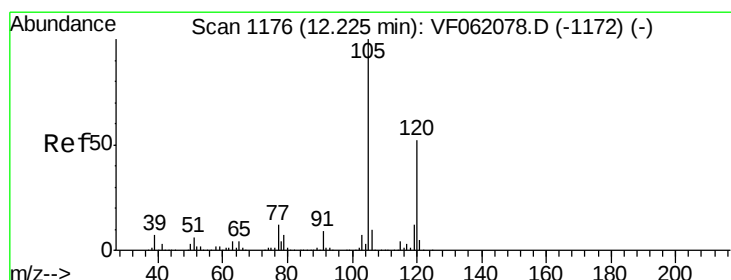
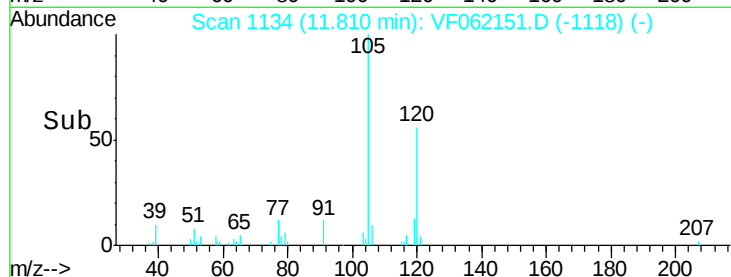
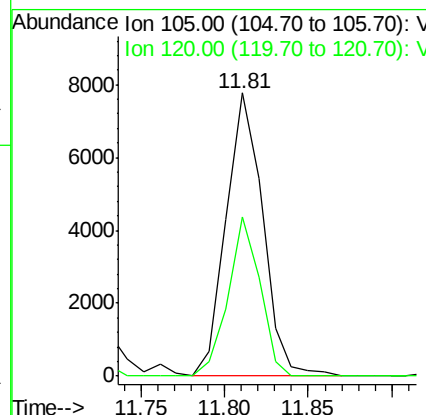
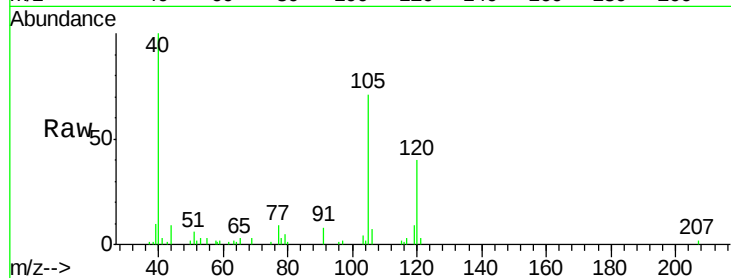
#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.473 ug/l m  
 RT: 11.81 min Scan# 1134  
 Delta R.T. -0.04 min  
 Lab File: VF062151.D  
 Acq: 26 Mar 2019 17:41

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 DRUM-COMP

Tot Ion:105 Resp: 11862  
 Ion Ratio Lower Upper  
 105 100  
 120 56.0 27.8 83.3

Manual Integrations  
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#84  
 1,2,4-Trimethylbenzene  
 Concen: 9.737 ug/l m  
 RT: 12.19 min Scan# 1173  
 Delta R.T. -0.03 min  
 Lab File: VF062151.D  
 Acq: 26 Mar 2019 17:41

Tgt Ion:105 Resp: 45780  
 Ion Ratio Lower Upper  
 105 100  
 120 51.2 26.1 78.2

