

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF112018\  
 Data File : VF060821.D  
 Acq On : 20 Nov 2018 23:57  
 Operator : VA/AP  
 Sample : J5981-02  
 Misc : 4.71g/5mL/MSVOA-F/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 DTW-02(11-13)

Manual Integrations  
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 11/21/2018 2:46:57 PM

Quant Time: Nov 21 04:11:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 14 03:11:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 152810   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 314760   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 244106   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 75109    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 4.85   | 65  | 98021    | 56.24 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.48% |      |
| 35) Dibromofluoromethane    | 4.12   | 113 | 120576   | 50.96 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.92% |      |
| 50) Toluene-d8              | 7.57   | 98  | 255523   | 41.46 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.92%  |      |
| 62) 4-Bromofluorobenzene    | 11.41  | 95  | 102786   | 35.54 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 71.08%  |      |

|                            |       |     |          |         |      |        |
|----------------------------|-------|-----|----------|---------|------|--------|
| Target Compounds           |       |     |          |         |      | Qvalue |
| 16) Acetone                | 2.24  | 43  | 34896    | 93.67   | ug/l | # 86   |
| 20) Methylene Chloride     | 2.19  | 84  | 7560m    | 3.44    | ug/l |        |
| 25) 2-Butanone             | 4.34  | 43  | 11554    | 18.86   | ug/l | 96     |
| 39) Methylcyclohexane      | 5.45  | 83  | 19675    | 4.65    | ug/l | 96     |
| 40) Benzene                | 4.65  | 78  | 6224911  | 764.98  | ug/l | 96     |
| 52) Toluene                | 7.63  | 92  | 2355540  | 431.97  | ug/l | 82     |
| 67) Ethyl Benzene          | 9.91  | 91  | 4675909  | 503.60  | ug/l | # 88   |
| 68) m/p-Xylenes            | 10.15 | 106 | 2480905  | 747.67  | ug/l | 89     |
| 69) o-Xylene               | 10.72 | 106 | 1501027  | 402.36  | ug/l | 81     |
| 70) Styrene                | 10.80 | 104 | 804824   | 158.96  | ug/l | 98     |
| 73) Isopropylbenzene       | 11.13 | 105 | 216784   | 35.86   | ug/l | 97     |
| 78) n-propylbenzene        | 11.60 | 91  | 248965   | 35.31   | ug/l | 97     |
| 80) 1,3,5-Trimethylbenzene | 11.83 | 105 | 1079532  | 224.91  | ug/l | 98     |
| 84) 1,2,4-Trimethylbenzene | 12.21 | 105 | 2047581  | 412.48  | ug/l | 96     |
| 86) p-Isopropyltoluene     | 12.47 | 119 | 41561m   | 7.20    | ug/l |        |
| 95) Naphthalene            | 14.49 | 128 | 21569024 | 6974.51 | ug/l | # 44   |

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

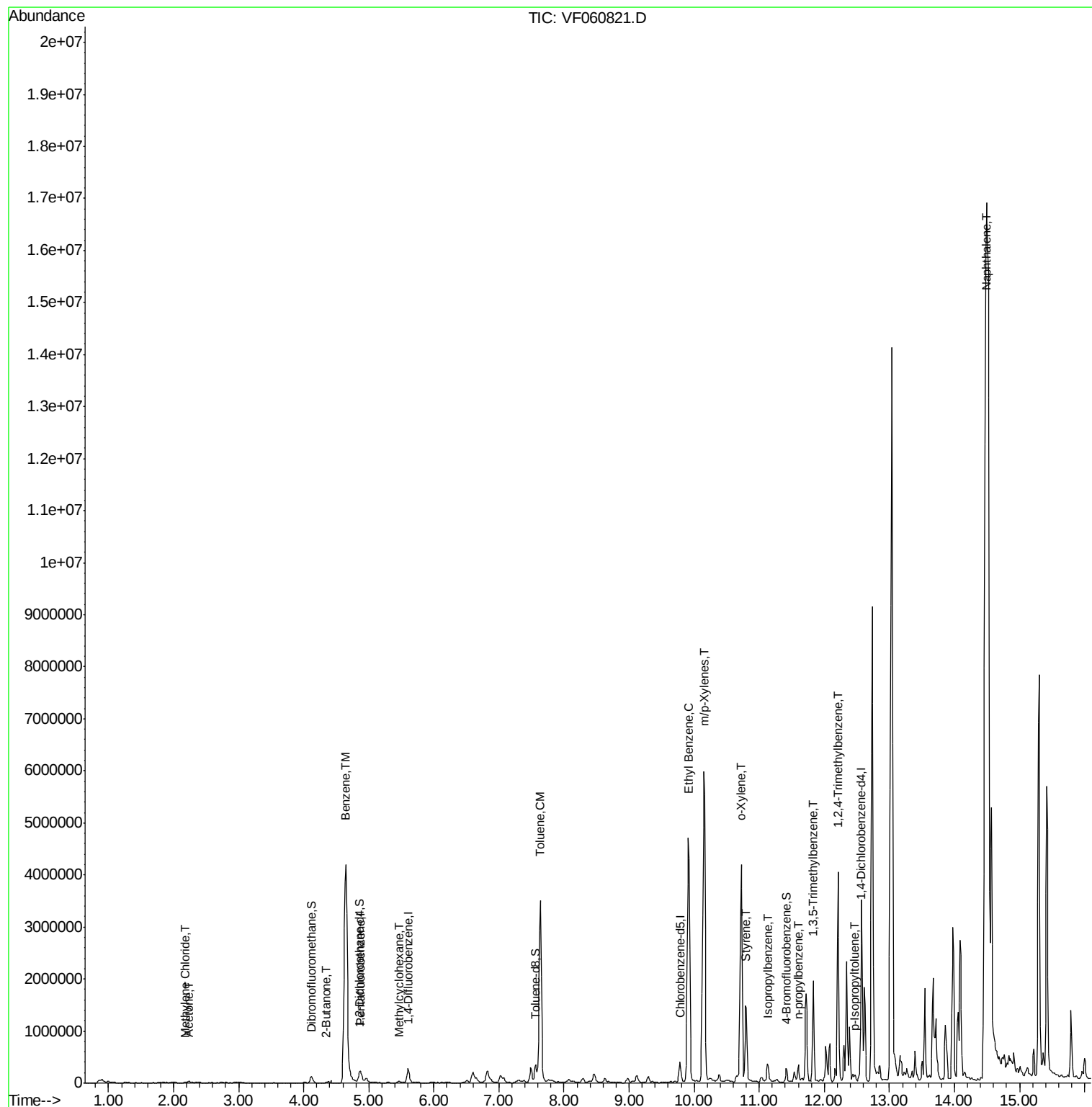
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF112018\  
Data File : VF060821.D  
Acq On : 20 Nov 2018 23:57  
Operator : VA/AP  
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DTW-02(11-13)

Manual Integrations  
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Quant Time: Nov 21 04:11:01 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 14 03:11:14 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

Instrument :

MSVOA\_F

ClientSampleId :

DTW-02(11-13)

Tgt Ion:168 Resp: 152810

Ion Ratio Lower Upper

168 100

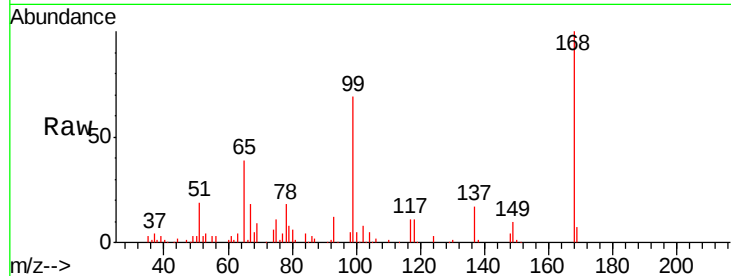
99 69.5 57.2 85.8

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

50000

40000

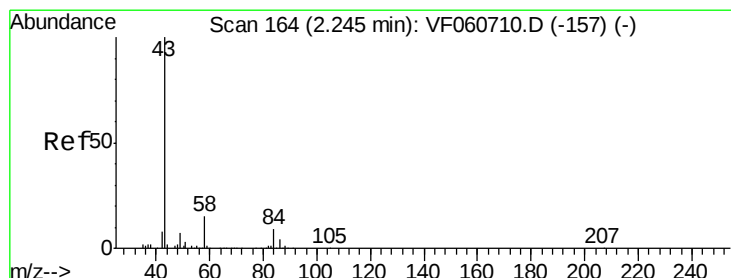
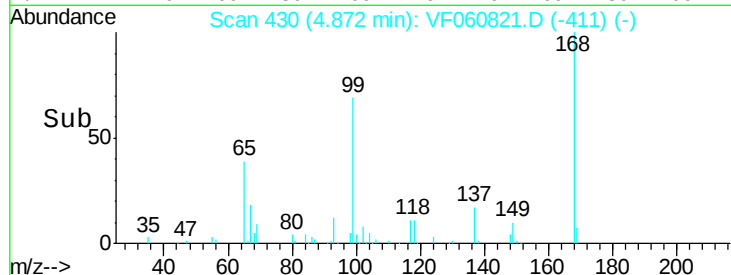
30000

20000

10000

0

Time-->



#16

Acetone

Concen: 93.67 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF060821.D

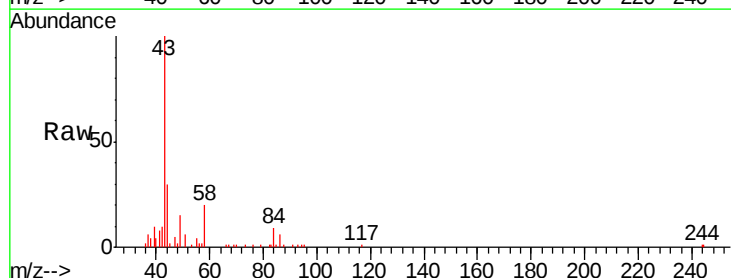
Acq: 20 Nov 2018 23:57

Tgt Ion: 43 Resp: 34896

Ion Ratio Lower Upper

43 100

58 20.1 11.6 17.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

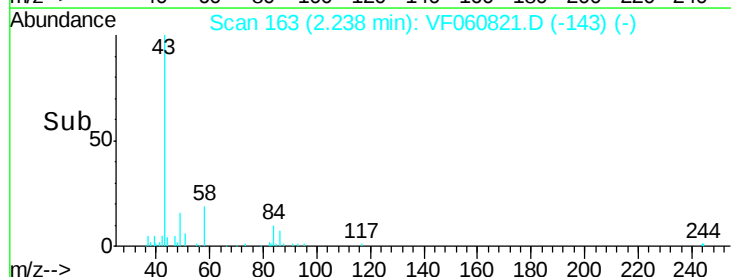
15000

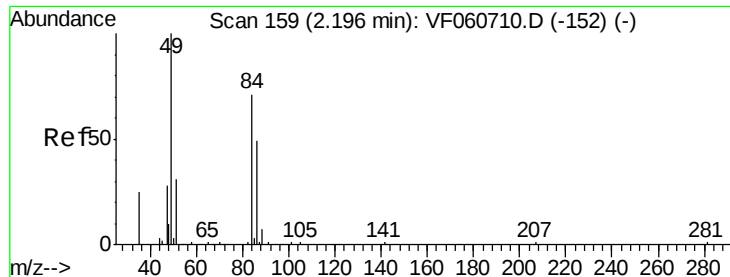
10000

5000

0

Time-->





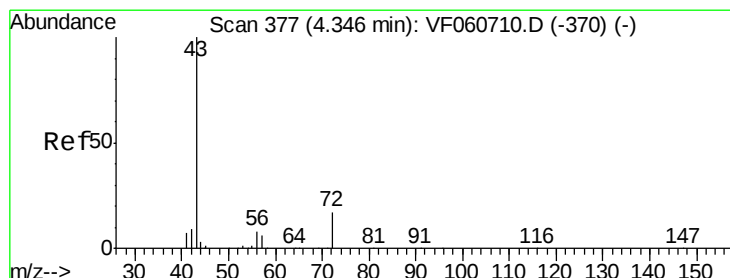
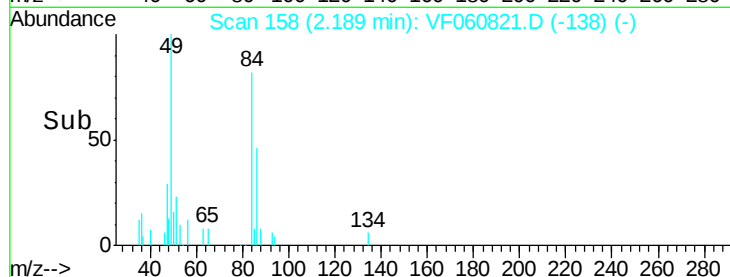
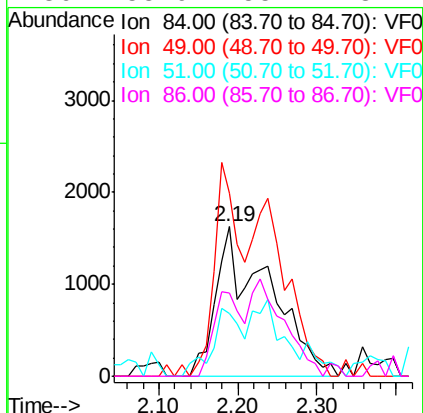
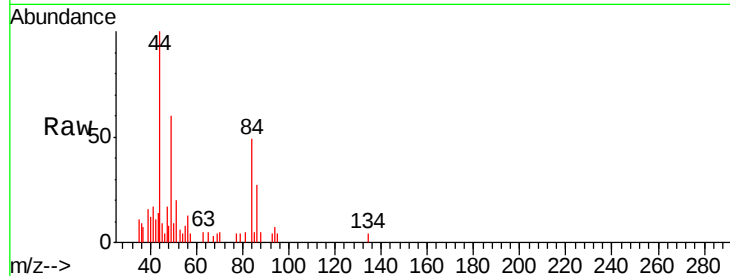
#20  
Methylene Chloride  
Concen: 3.44 ug/l m  
RT: 2.19 min Scan# 158  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

Instrument :  
MSVOA\_F  
ClientSampleId :  
DTW-02(11-13)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7560  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.0 | 120.2 | 180.4 |
| 51       | 41.5  | 37.2  | 55.8  |
| 86       | 55.9  | 55.1  | 82.7  |

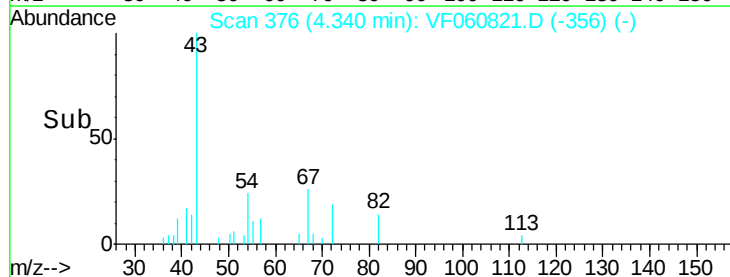
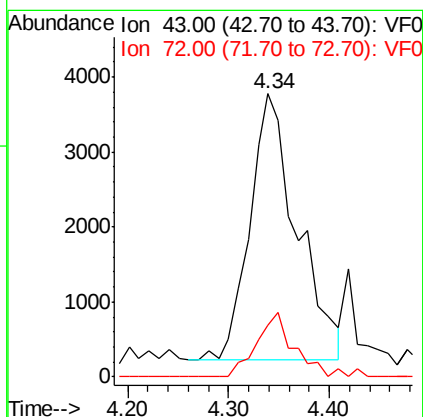
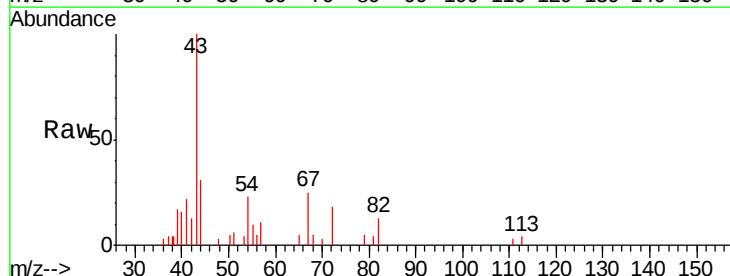
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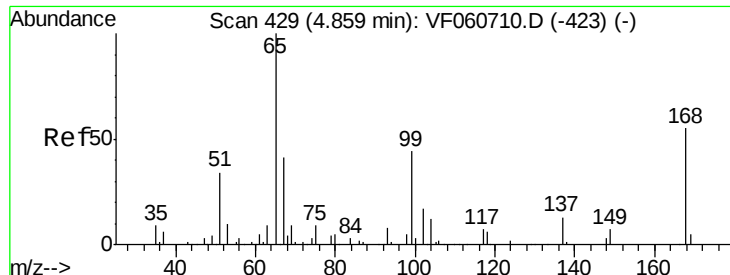
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#25  
2-Butanone  
Concen: 18.86 ug/l  
RT: 4.34 min Scan# 376  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11554 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 18.5  | 16.1  | 24.1  |





#33

1,2-Dichloroethane-d4

Concen: 56.24 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

Instrument :

MSVOA\_F

ClientSampleId :

DTW-02(11-13)

Tgt Ion: 65 Resp: 98021

Ion Ratio Lower Upper

65 100

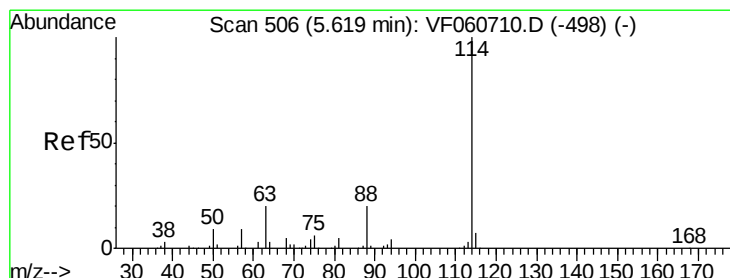
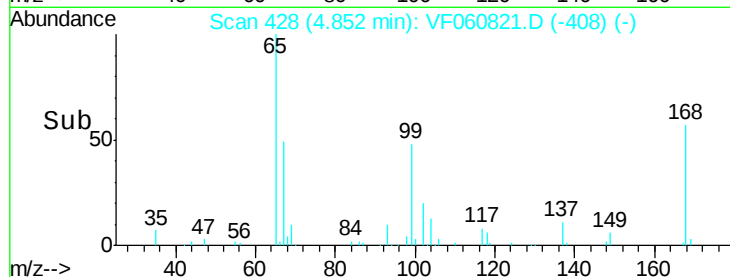
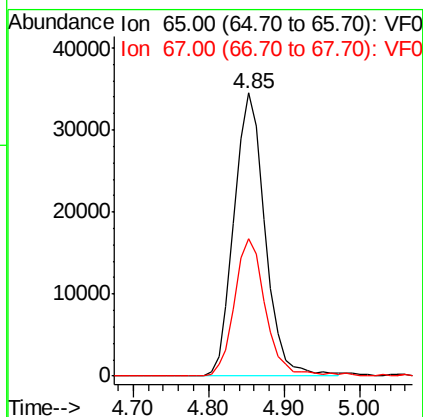
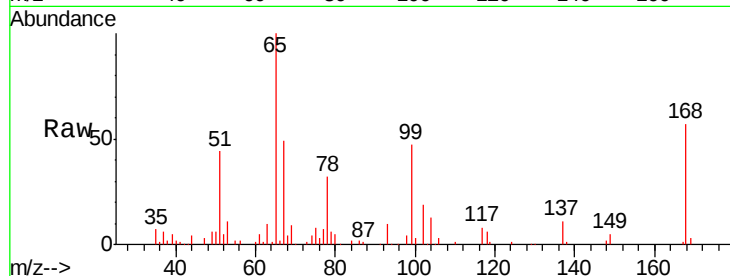
67 48.7 0.0 90.2

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.02 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

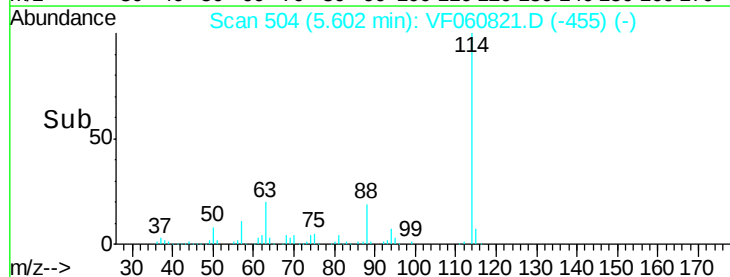
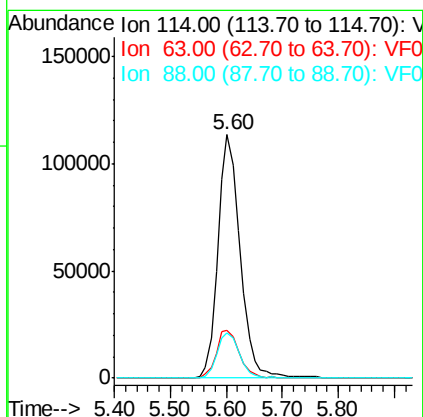
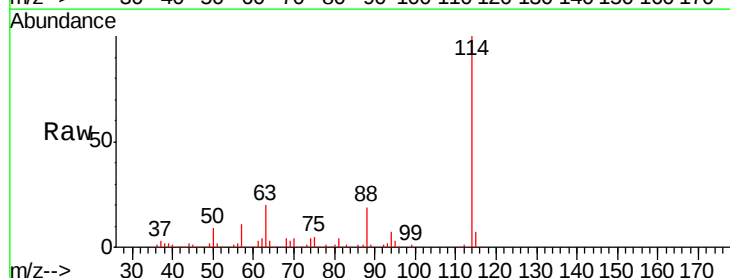
Tgt Ion: 114 Resp: 314760

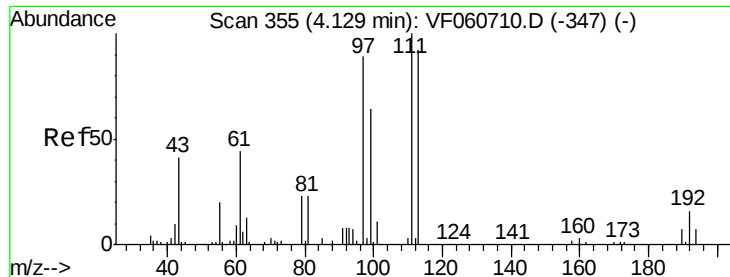
Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 18.6 0.0 39.6





#35

Dibromofluoromethane

Concen: 50.96 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

Instrument :

MSVOA\_F

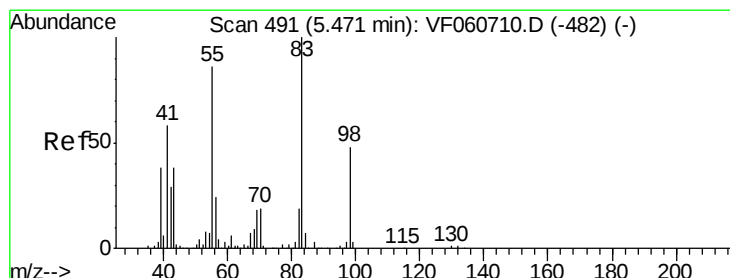
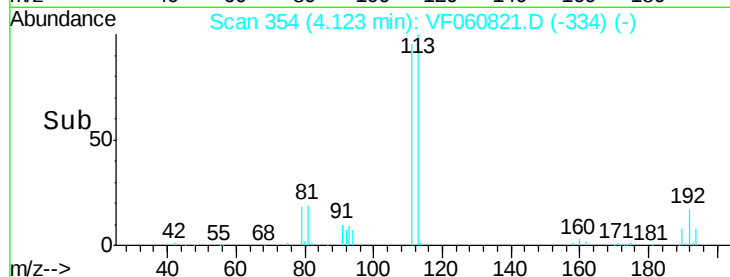
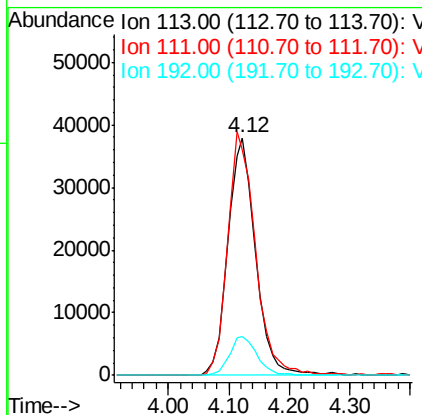
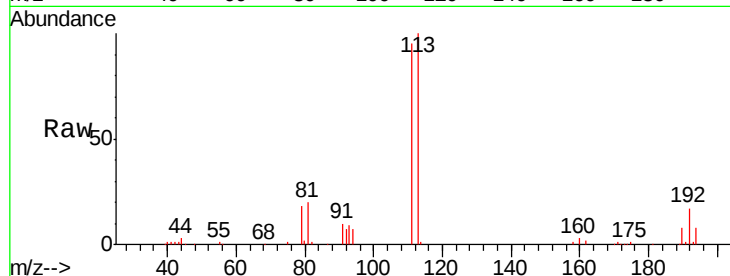
ClientSampleId :

DTW-02(11-13)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 120576 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 94.9  | 87.1  | 130.7  |
| 192      | 16.6  | 13.8  | 20.6   |

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#39

Methylcyclohexane

Concen: 4.65 ug/l

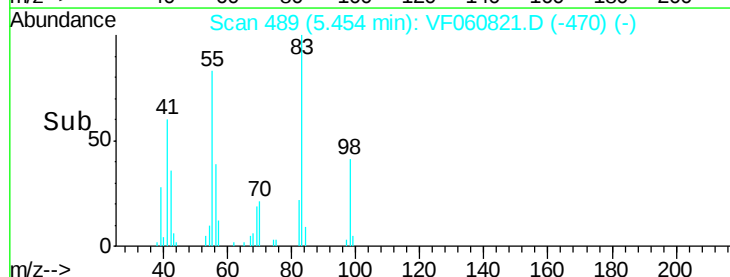
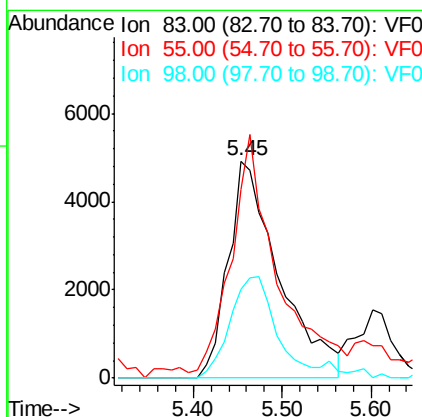
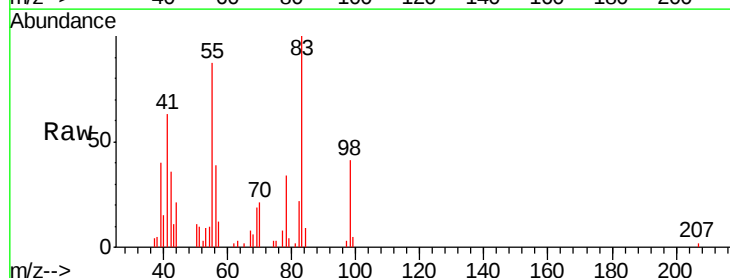
RT: 5.45 min Scan# 489

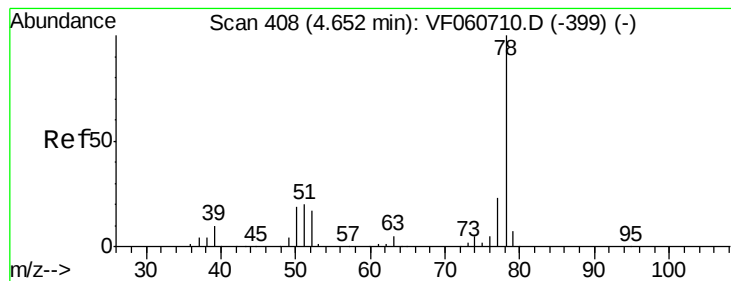
Delta R.T. -0.02 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 19675 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 86.7  | 69.0  | 103.4 |
| 98       | 41.0  | 38.5  | 57.7  |





#40

Benzene

Concen: 764.98 ug/l

RT: 4.65 min Scan# 407

Delta R.T. -0.01 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

Instrument :

MSVOA\_F

ClientSampleId :

DTW-02(11-13)

Tgt Ion: 78 Resp: 6224911

Ion Ratio Lower Upper

78 100

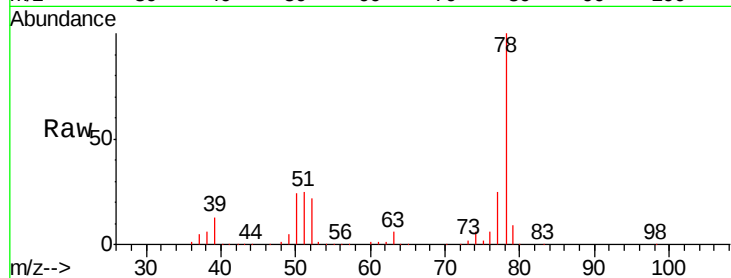
77 25.3 18.6 28.0

Manual Integrations

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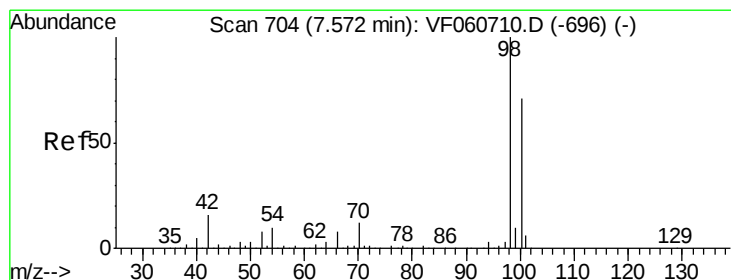
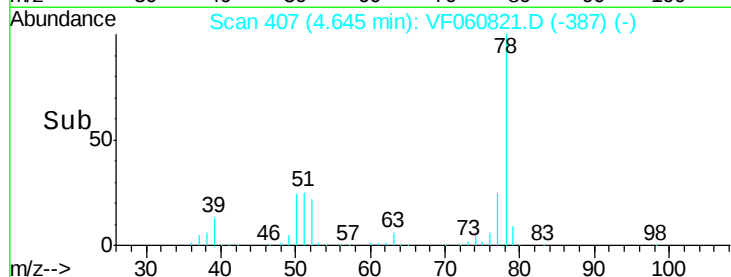
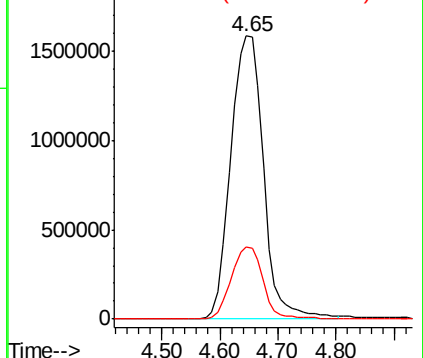
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Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#50

Toluene-d8

Concen: 41.46 ug/l

RT: 7.57 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF060821.D

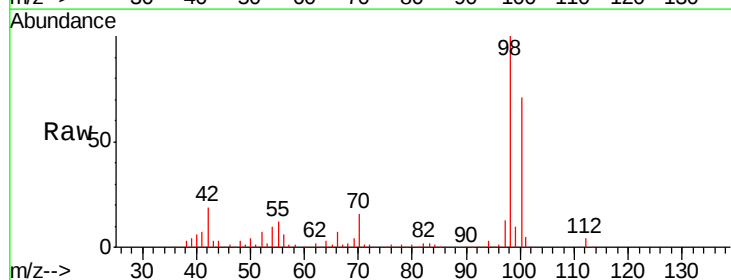
Acq: 20 Nov 2018 23:57

Tgt Ion: 98 Resp: 255523

Ion Ratio Lower Upper

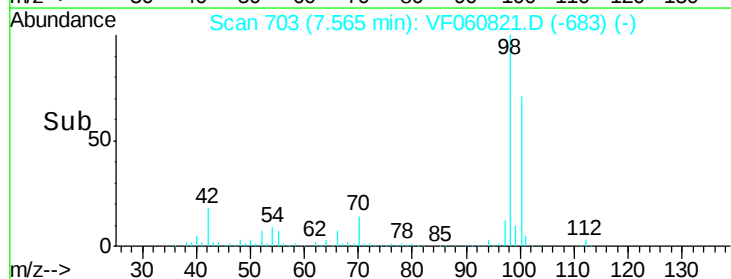
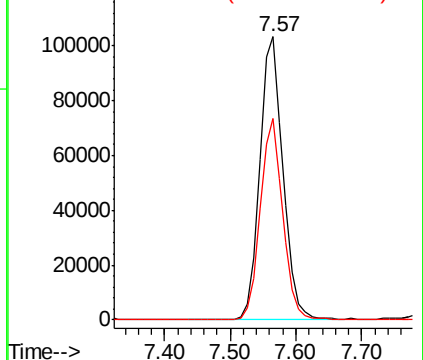
98 100

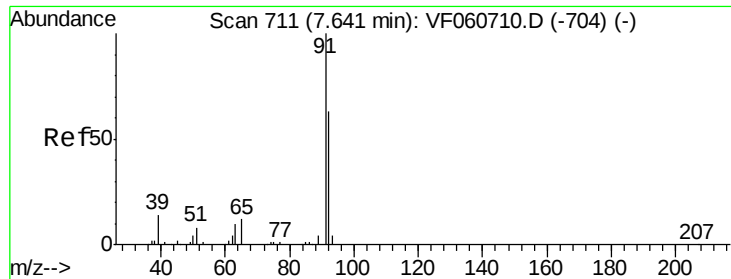
100 71.0 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 431.97 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

Instrument :

MSVOA\_F

ClientSampleId :

DTW-02(11-13)

Tgt Ion: 92 Resp: 235540

Ion Ratio Lower Upper

92 100

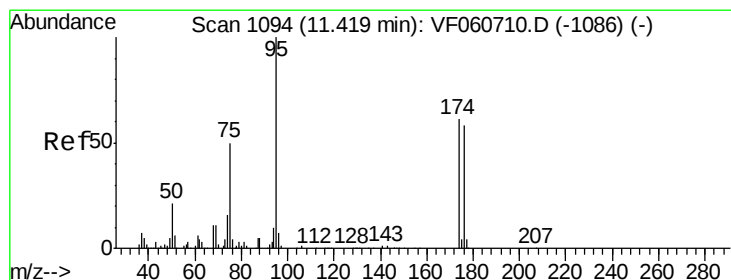
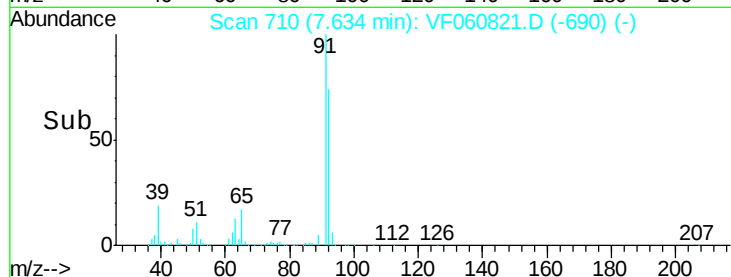
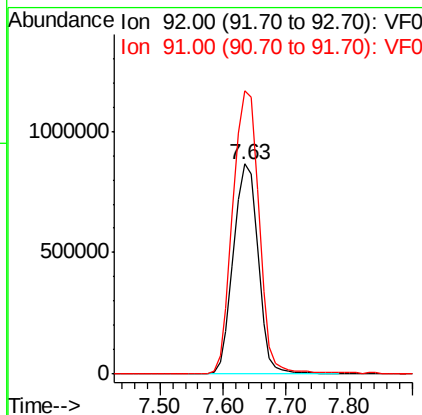
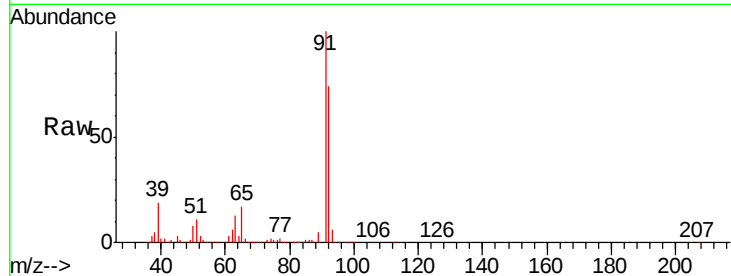
91 134.8 126.7 190.1

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#62

4-Bromofluorobenzene

Concen: 35.54 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

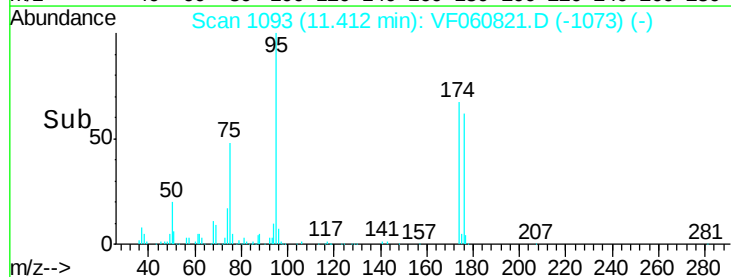
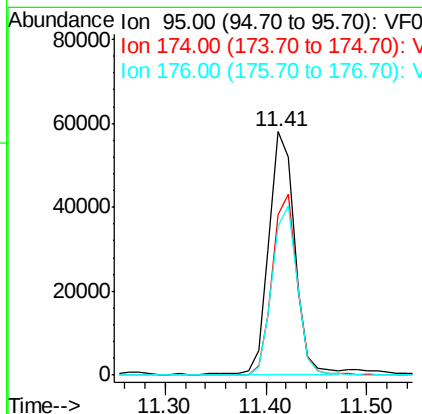
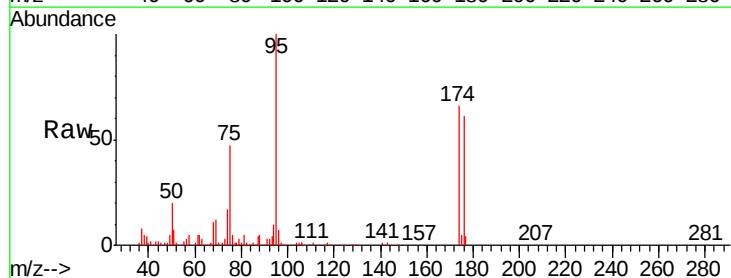
Tgt Ion: 95 Resp: 102786

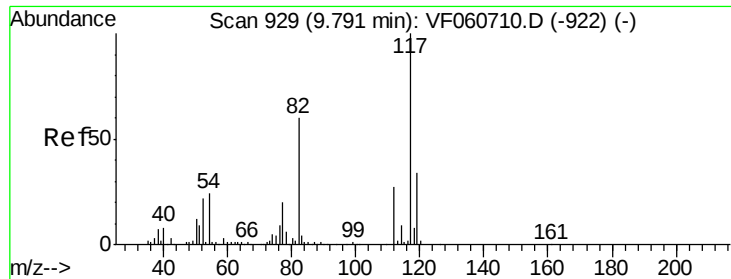
Ion Ratio Lower Upper

95 100

174 65.7 0.0 121.6

176 61.2 0.0 115.2





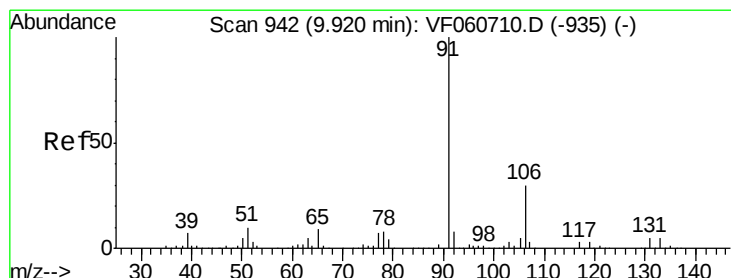
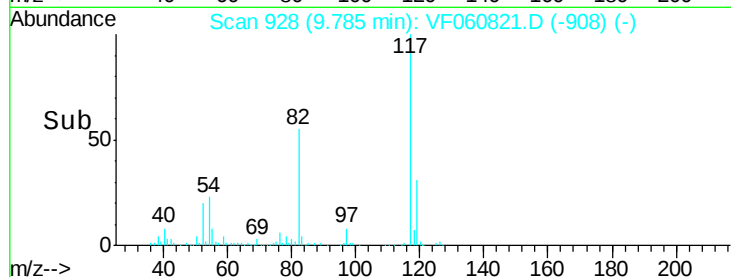
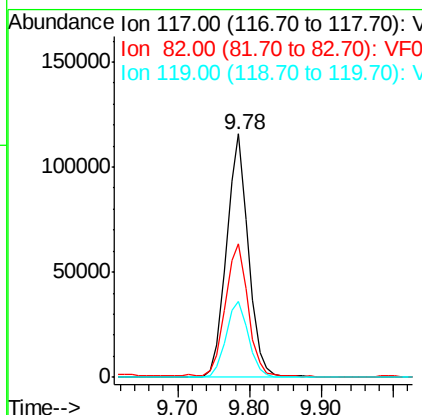
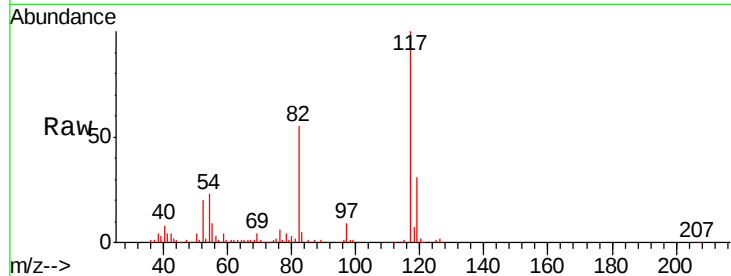
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

Instrument :  
MSVOA\_F  
ClientSampleId :  
DTW-02(11-13)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 244106 |       |       |
| 82      | 54.8  | 47.9   | 71.9  |       |
| 119     | 31.4  | 26.8   | 40.2  |       |

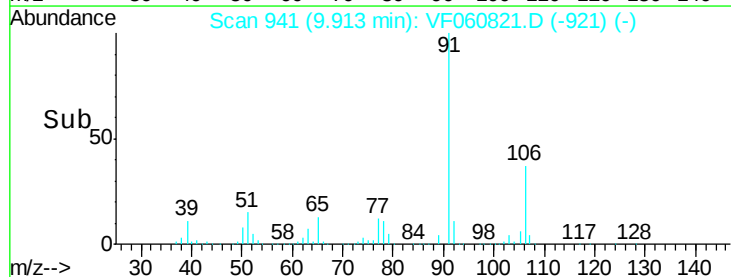
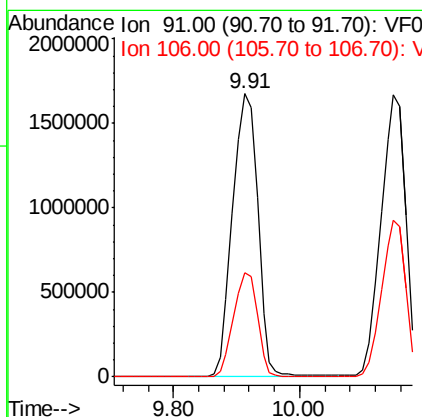
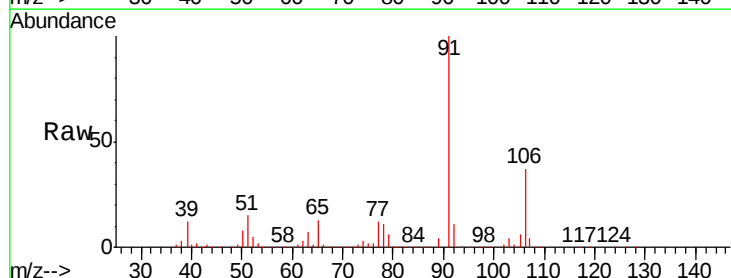
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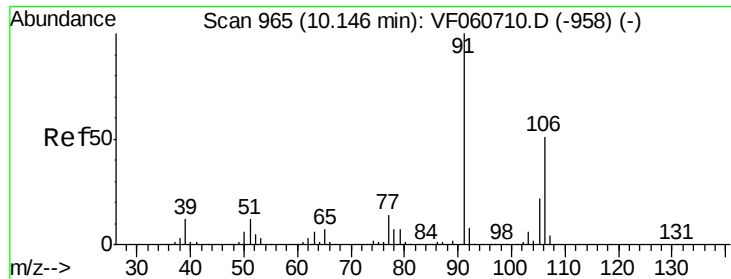
apatel  
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#67  
Ethyl Benzene  
Concen: 503.60 ug/l  
RT: 9.91 min Scan# 941  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 91      | 100   | 4675909 |       |       |
| 106     | 36.6  | 23.9    | 35.9  | #     |





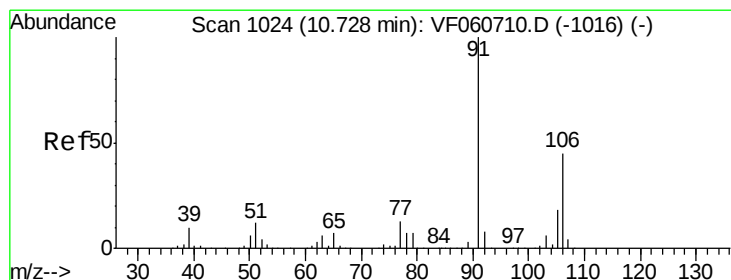
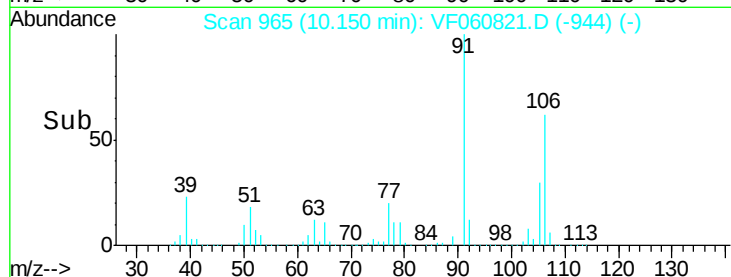
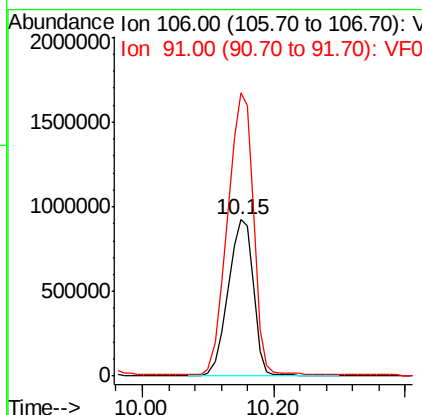
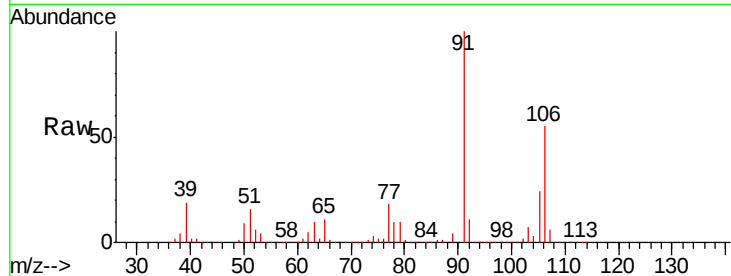
#68  
m/p-Xylenes  
Concen: 747.67 ug/l  
RT: 10.15 min Scan# 965  
Delta R.T. 0.00 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

Instrument :  
MSVOA\_F  
ClientSampleId :  
DTW-02(11-13)

Tgt Ion:106 Resp: 2480905  
Ion Ratio Lower Upper  
106 100  
91 180.9 158.2 237.2

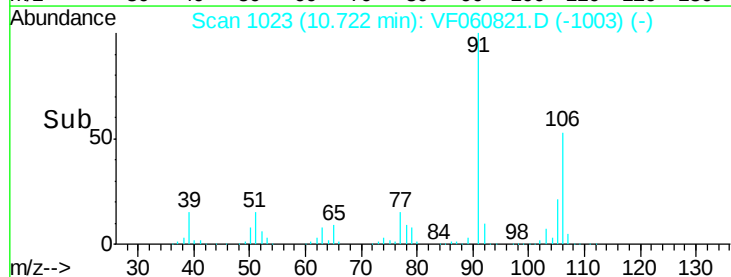
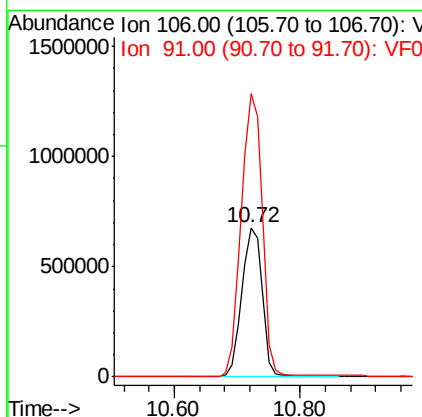
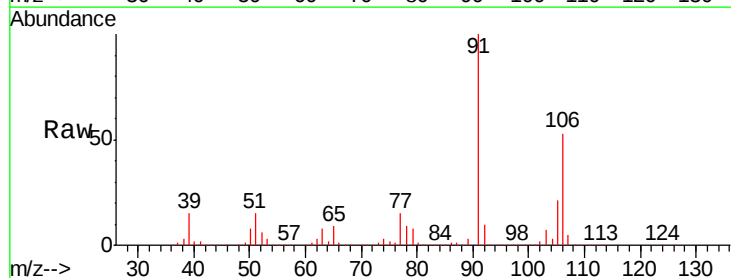
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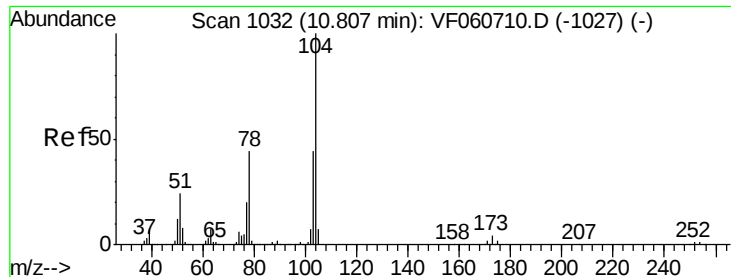
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#69  
o-Xylene  
Concen: 402.36 ug/l  
RT: 10.72 min Scan# 1023  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

Tgt Ion:106 Resp: 1501027  
Ion Ratio Lower Upper  
106 100  
91 189.8 110.3 330.9





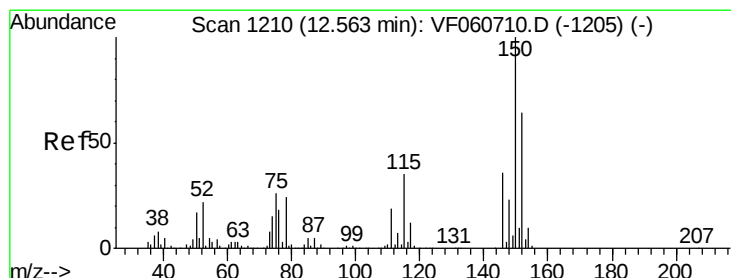
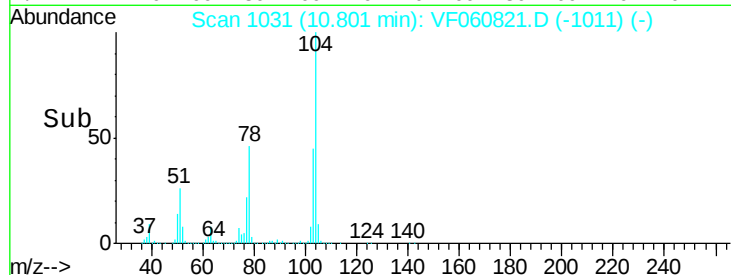
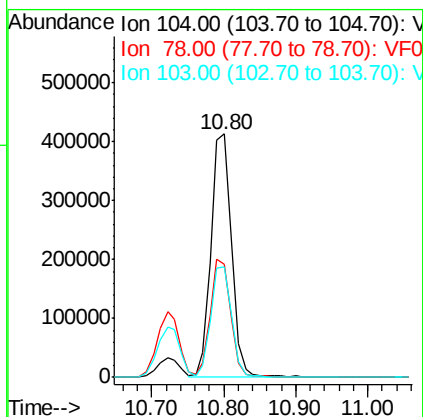
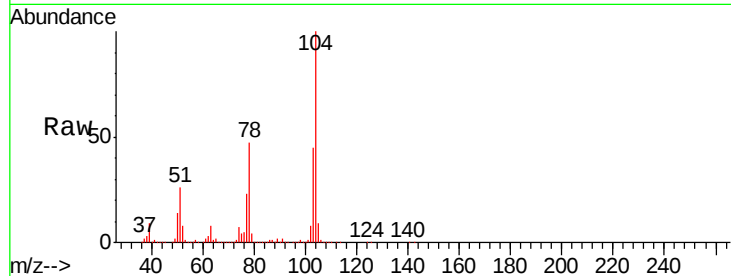
#70  
Styrene  
Concen: 158.96 ug/l  
RT: 10.80 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

Instrument :  
MSVOA\_F  
ClientSampleId :  
DTW-02(11-13)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 46.6  | 35.4  | 53.2  |
| 103     | 45.4  | 35.8  | 53.6  |

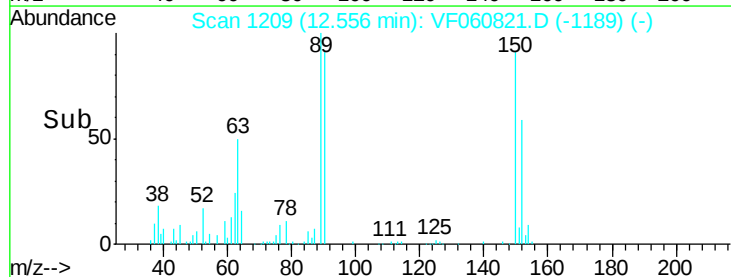
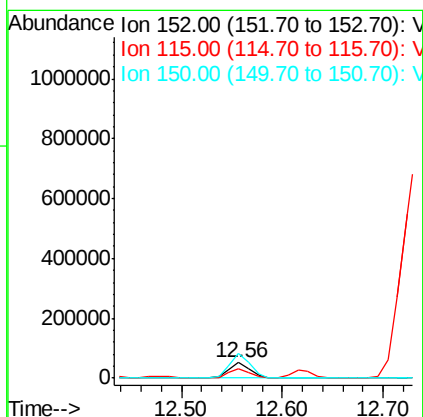
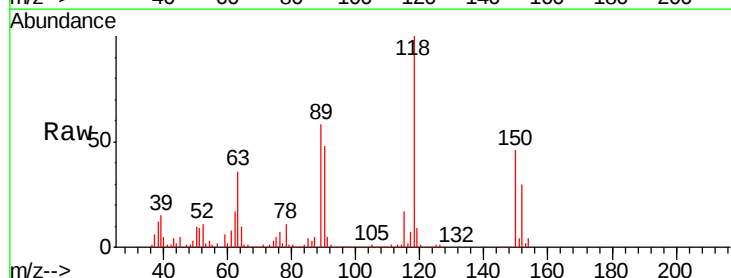
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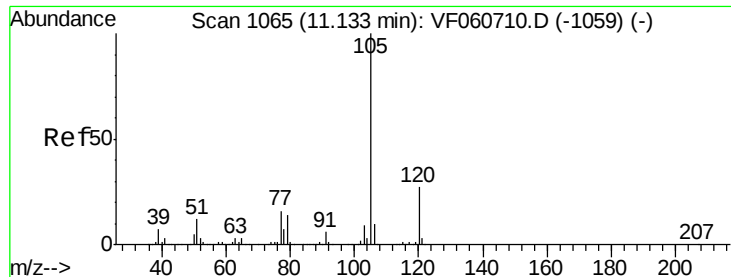
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.56 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.2  | 27.9  | 83.7  |
| 150     | 154.3 | 0.0   | 316.4 |





#73

Isopropylbenzene

Concen: 35.86 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF060821.D

Acq: 20 Nov 2018 23:57

Instrument :

MSVOA\_F

ClientSampleId :

DTW-02(11-13)

Tgt Ion: 105 Resp: 216784

Ion Ratio Lower Upper

105 100

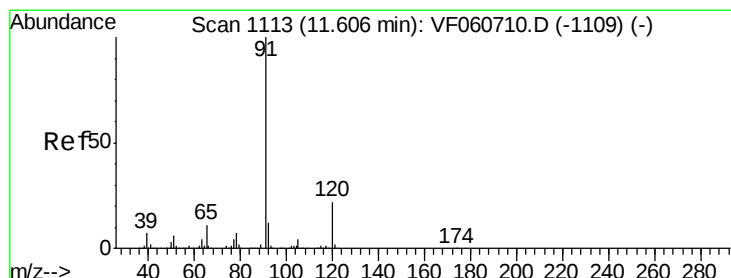
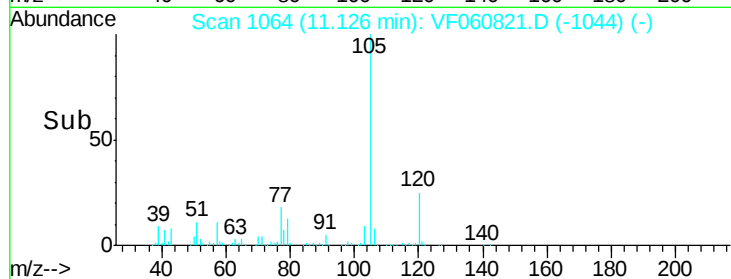
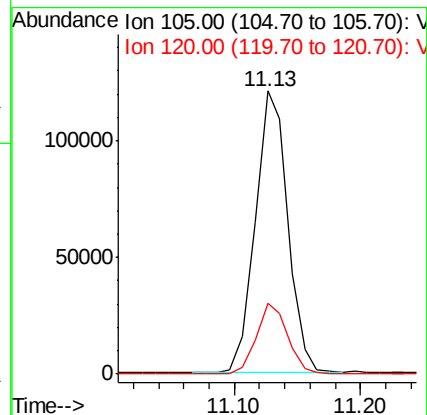
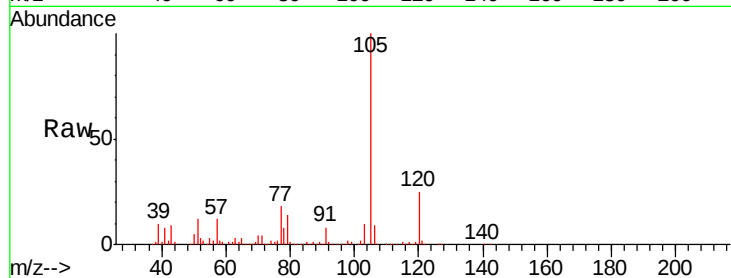
120 25.2 13.4 40.1

Manual Integrations

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#78

n-propylbenzene

Concen: 35.31 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF060821.D

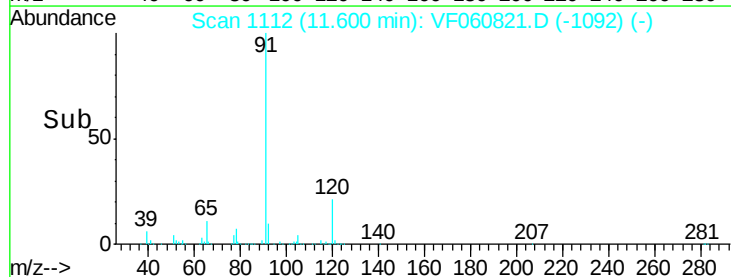
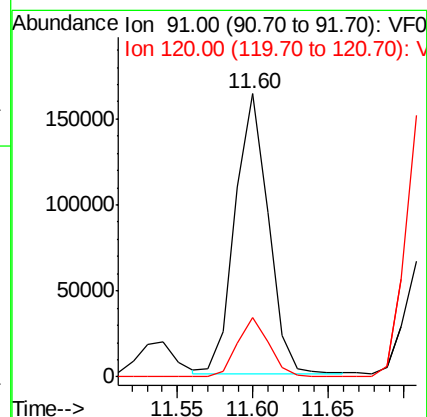
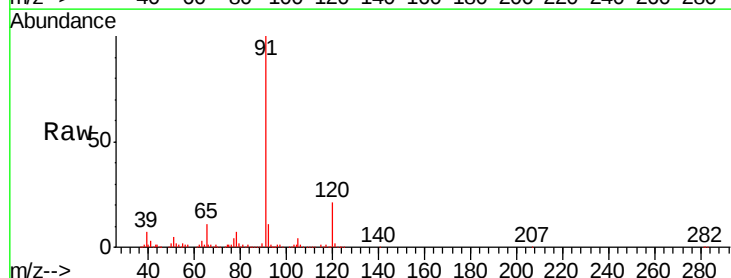
Acq: 20 Nov 2018 23:57

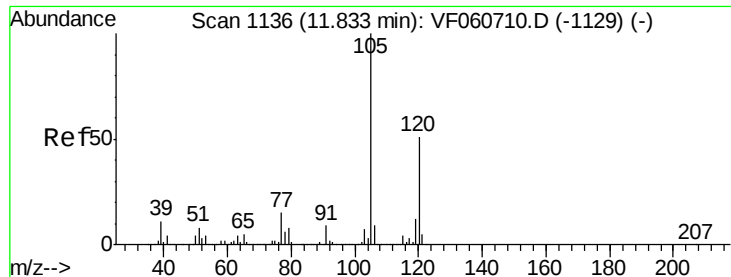
Tgt Ion: 91 Resp: 248965

Ion Ratio Lower Upper

91 100

120 21.1 11.2 33.5





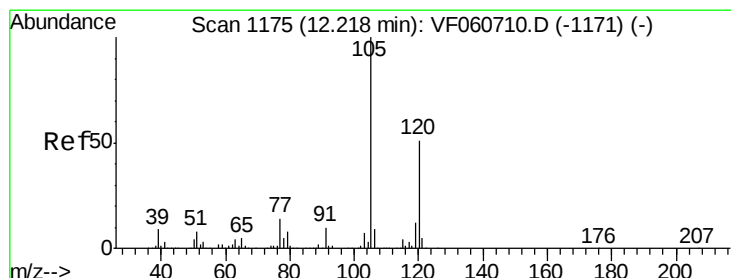
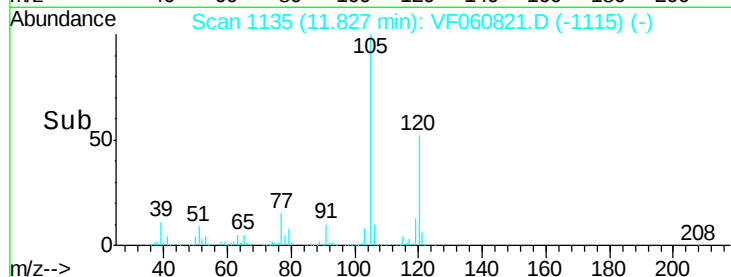
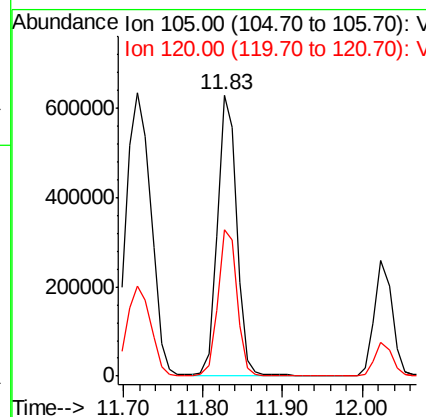
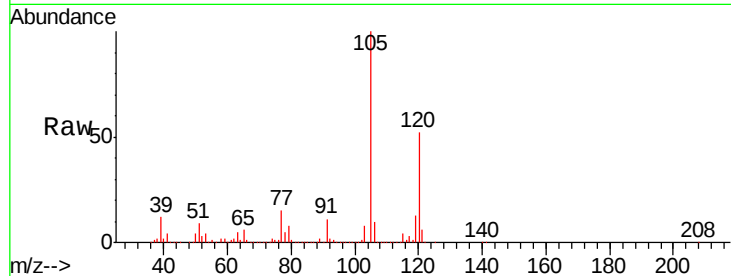
#80  
 1,3,5-Trimethylbenzene  
 Concen: 224.91 ug/l  
 RT: 11.83 min Scan# 1135  
 Delta R.T. -0.01 min  
 Lab File: VF060821.D  
 Acq: 20 Nov 2018 23:57

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 DTW-02(11-13)

Tgt Ion:105 Resp: 1079532  
 Ion Ratio Lower Upper  
 105 100  
 120 52.3 25.6 76.8

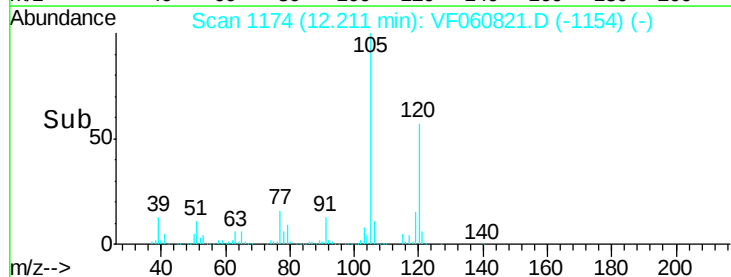
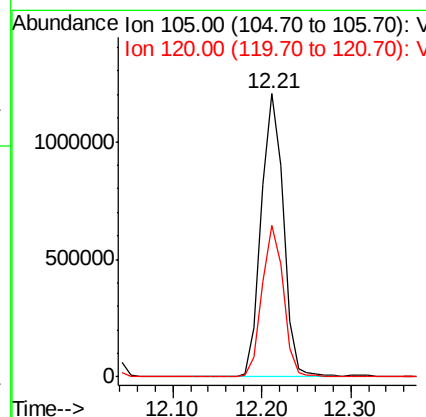
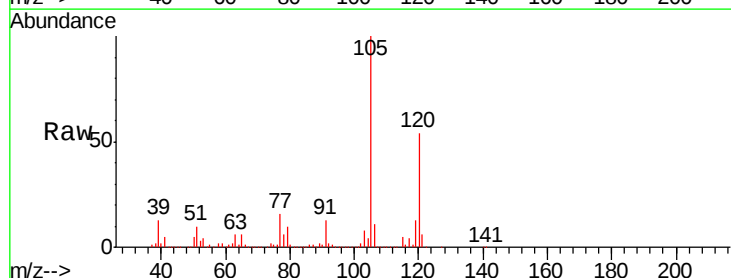
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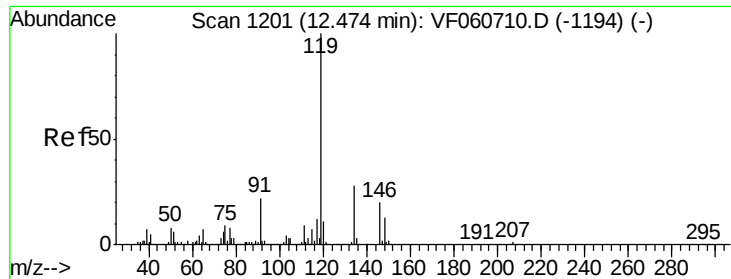
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#84  
 1,2,4-Trimethylbenzene  
 Concen: 412.48 ug/l  
 RT: 12.21 min Scan# 1174  
 Delta R.T. -0.01 min  
 Lab File: VF060821.D  
 Acq: 20 Nov 2018 23:57

Tgt Ion:105 Resp: 2047581  
 Ion Ratio Lower Upper  
 105 100  
 120 53.7 25.5 76.5





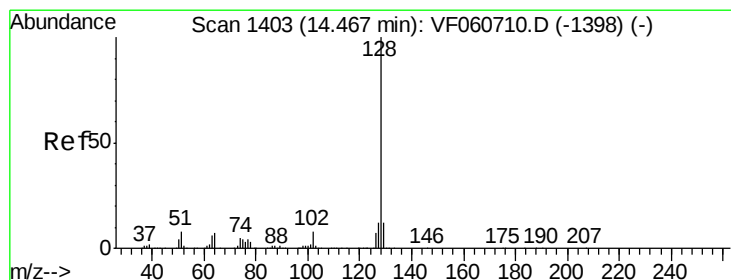
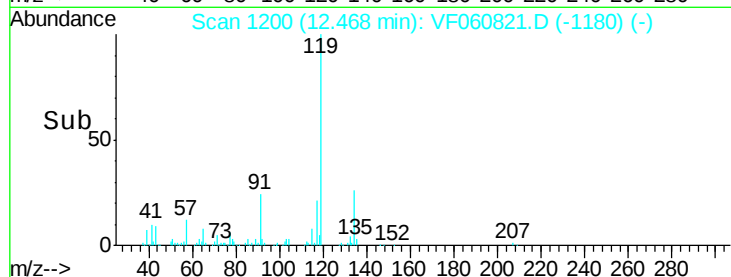
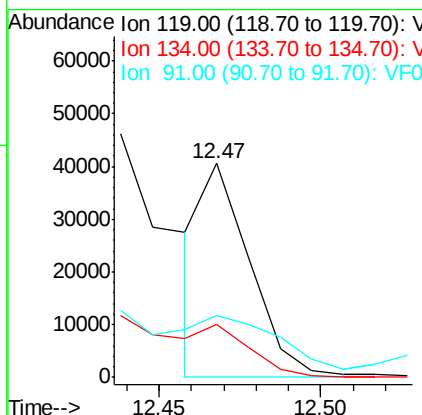
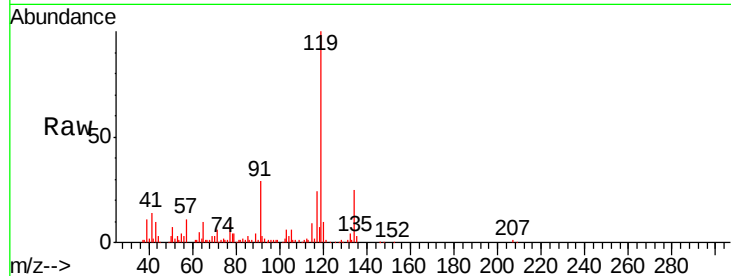
#86  
p-Isopropyltoluene  
Concen: 7.20 ug/l m  
RT: 12.47 min Scan# 1200  
Delta R.T. -0.01 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

Instrument :  
MSVOA\_F  
ClientSampleId :  
DTW-02(11-13)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.7  | 13.9  | 41.7  |
| 91      | 29.0  | 11.3  | 33.9  |

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#95  
Naphthalene  
Concen: 6974.51 ug/l  
RT: 14.49 min Scan# 1405  
Delta R.T. 0.02 min  
Lab File: VF060821.D  
Acq: 20 Nov 2018 23:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 34.5  | 9.8   | 14.6# |
| 129     | 33.1  | 9.3   | 13.9# |

