

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082318\  
 Data File : VX004220.D  
 Acq On : 23 Aug 2018 12:20  
 Operator : JC/MD  
 Sample : J4579-03DL 50X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0545DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/24/2018 11:35:18 AM

Quant Time: Aug 24 07:24:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 310584   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 488179   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 436652   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 281213   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 209167   | 51.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.34% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 177737   | 48.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.88%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 686351   | 50.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.14% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 261974   | 51.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.44% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 31) Cyclohexane            | 5.57  | 56   | 23097    | 4.07  | ug/l   | 93     |
| 39) Methylcyclohexane      | 7.46  | 83   | 17389    | 2.78  | ug/l   | 98     |
| 40) Benzene                | 6.13  | 78   | 4888     | 0.30  | ug/l   | 92     |
| 52) Toluene                | 8.79  | 92   | 13354    | 1.30  | ug/l   | 98     |
| 67) Ethyl Benzene          | 10.26 | 91   | 265875   | 14.94 | ug/l   | 98     |
| 68) m/p-Xylenes            | 10.36 | 106  | 330089   | 47.43 | ug/l   | 98     |
| 69) o-Xylene               | 10.70 | 106  | 96176    | 14.61 | ug/l   | 94     |
| 73) Isopropylbenzene       | 11.02 | 105  | 19023    | 1.03  | ug/l   | 99     |
| 78) n-propylbenzene        | 11.36 | 91   | 30282    | 1.43  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 51340    | 3.36  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 142840   | 9.10  | ug/l   | 99     |
| 85) sec-Butylbenzene       | 11.94 | 105  | 4114m    | 0.23  | ug/l   |        |
| 89) n-Butylbenzene         | 12.38 | 91   | 4884     | 0.37  | ug/l # | 41     |
| 95) Naphthalene            | 13.83 | 128  | 77155    | 4.21  | ug/l   | 99     |

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

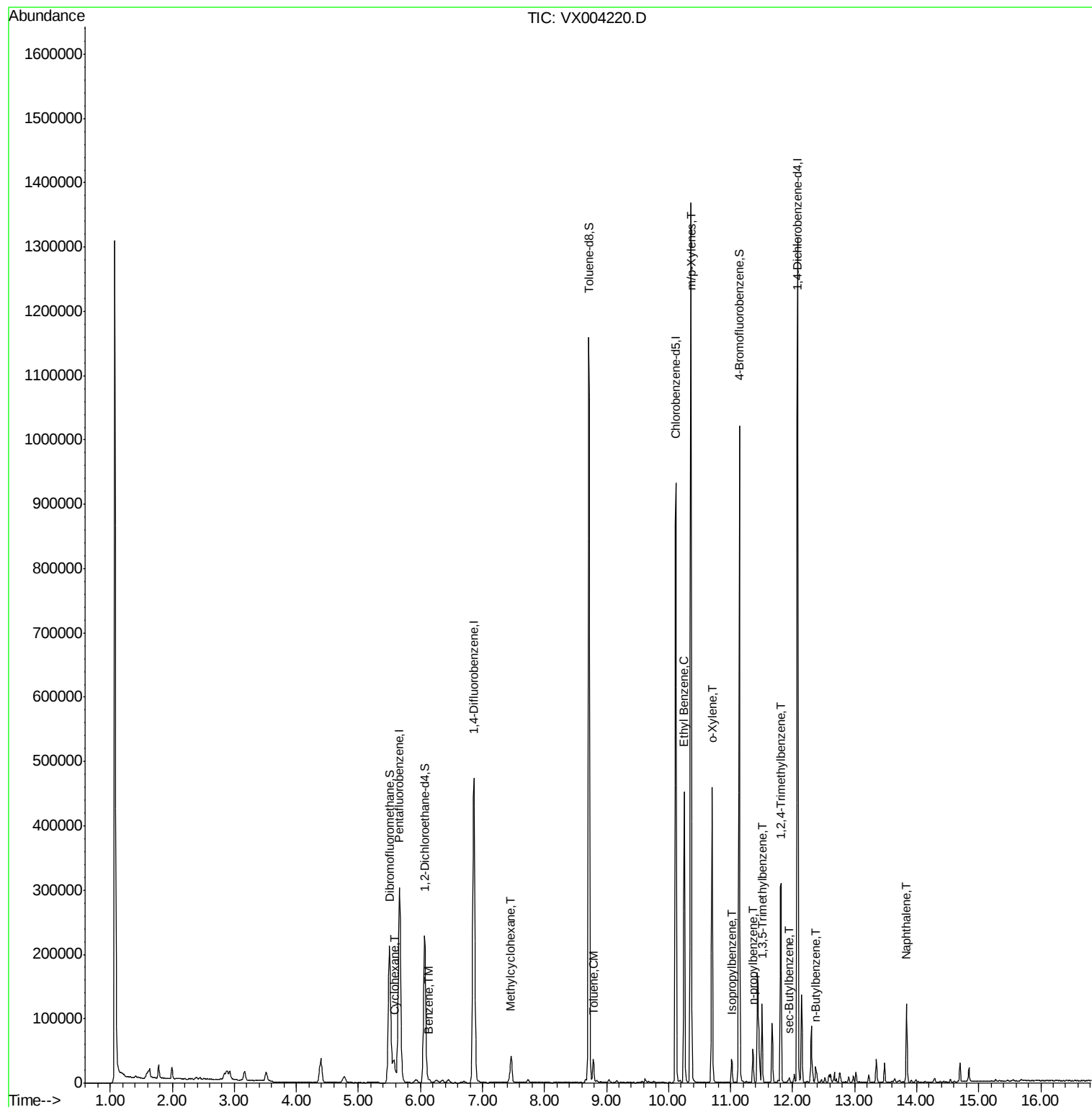
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082318\  
Data File : VX004220.D  
Acq On : 23 Aug 2018 12:20  
Operator : JC/MD  
Sample : J4579-03DL 50X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 8 Sample Multiplier: 1

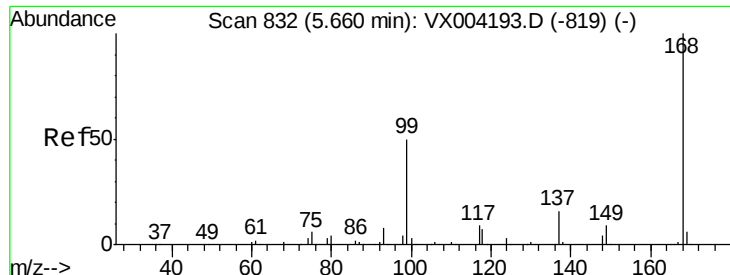
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0545DL

Manual Integrations  
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8/24/2018 11:35:18 AM

Quant Time: Aug 24 07:24:02 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

Instrument :

MSVOA\_X

ClientSampled :

FL-0545DL

Tot Ion:168 Resp: 310584

Ion Ratio Lower Upper

168 100

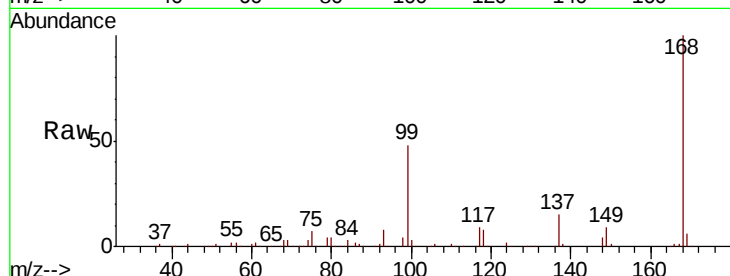
99 48.4 39.9 59.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

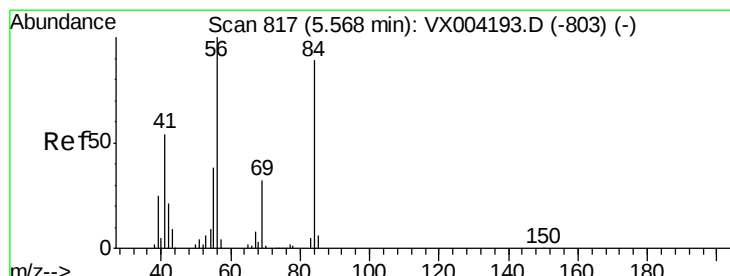
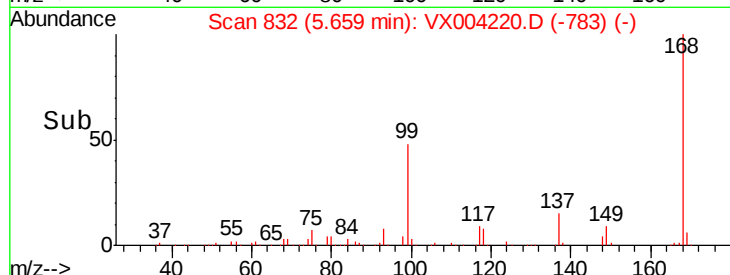
5.66

100000

50000

0

Time-->



#31

Cyclohexane

Concen: 4.07 ug/l

RT: 5.57 min Scan# 817

Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

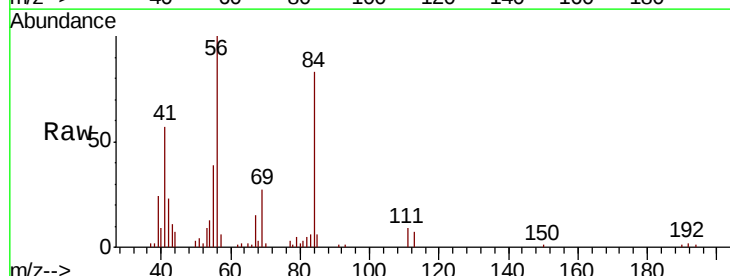
Tgt Ion: 56 Resp: 23097

Ion Ratio Lower Upper

56 100

69 27.1 25.4 38.2

84 83.0 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

5.57

10000

8000

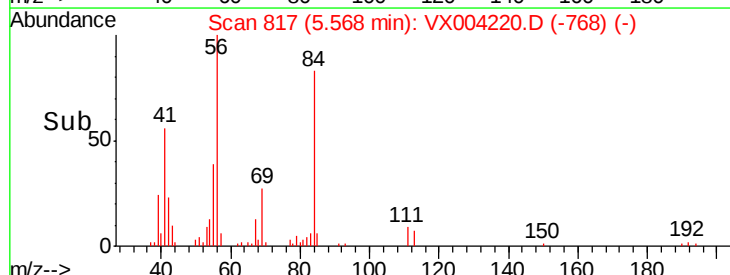
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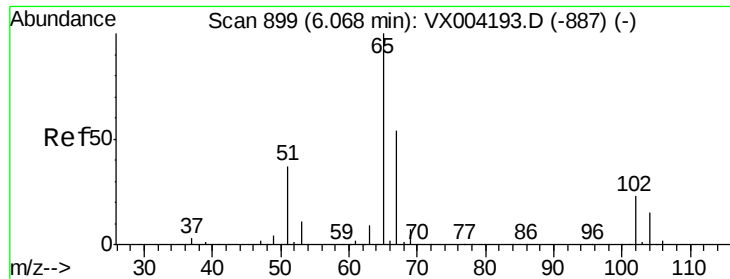
4000

2000

0

Time-->





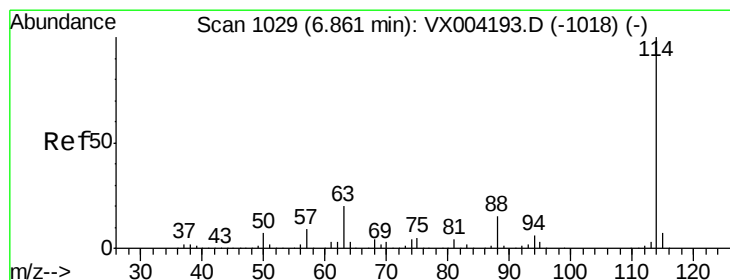
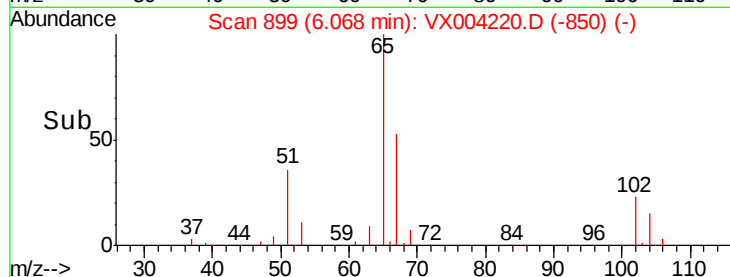
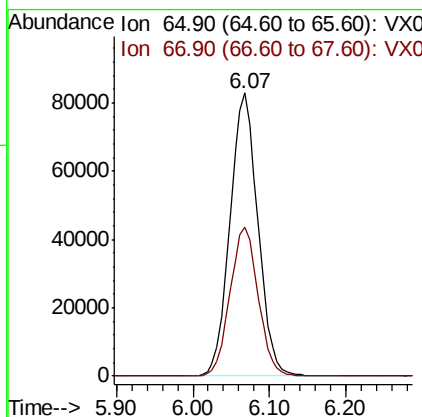
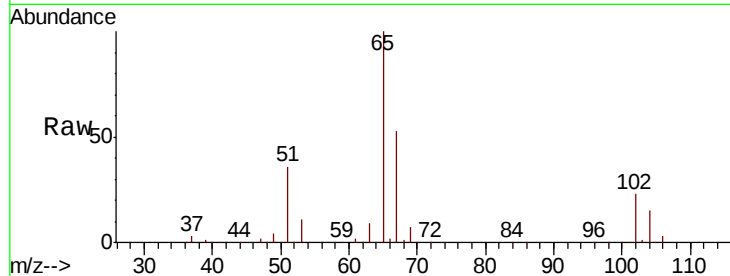
#33  
 1,2-Dichloroethane-d4  
 Concen: 51.67 ug/l  
 RT: 6.07 min Scan# 899  
 Delta R.T. -0.00 min  
 Lab File: VX004220.D  
 Acq: 23 Aug 2018 12:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0545DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 209167 |       |       |
| 67      | 53.3  | 0.0    | 106.8 |       |

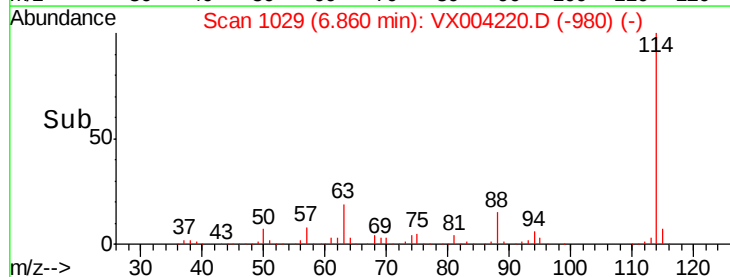
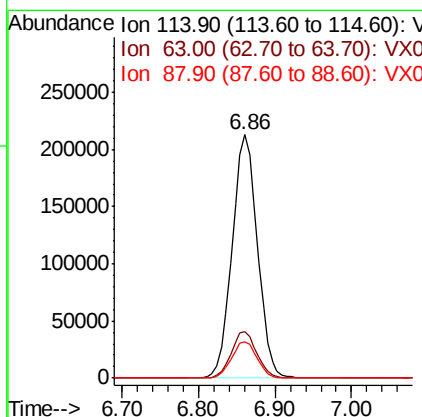
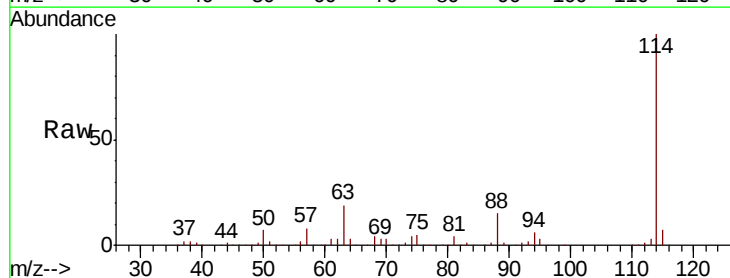
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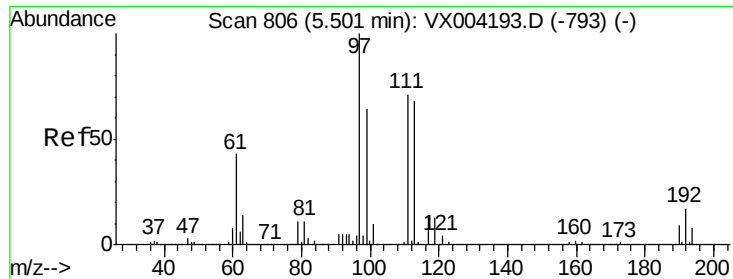
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#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 1029  
 Delta R.T. -0.00 min  
 Lab File: VX004220.D  
 Acq: 23 Aug 2018 12:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 488179 |       |       |
| 63      | 19.3  | 0.0    | 39.0  |       |
| 88      | 15.1  | 0.0    | 30.4  |       |





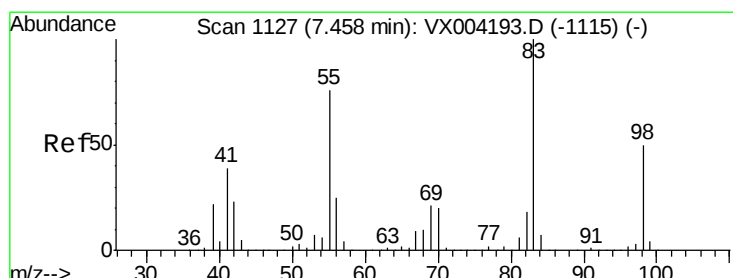
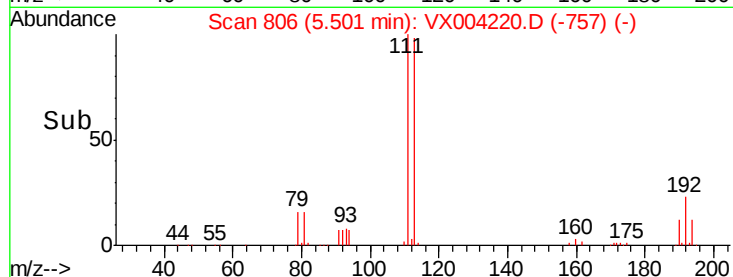
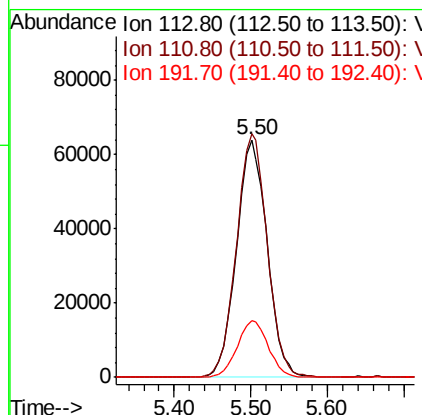
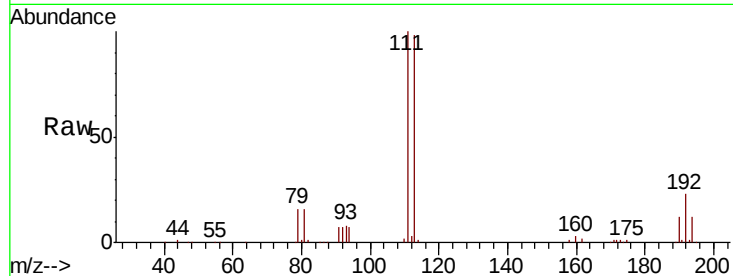
#35  
Dibromofluoromethane  
Concen: 48.94 ug/l  
RT: 5.50 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0545DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 177737 |       |       |
| 111     | 102.9 | 82.4   | 123.6 |       |
| 192     | 24.0  | 19.4   | 29.2  |       |

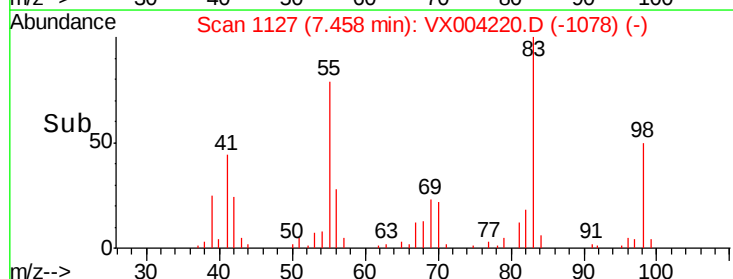
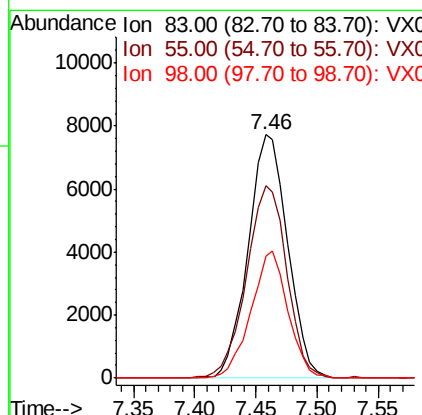
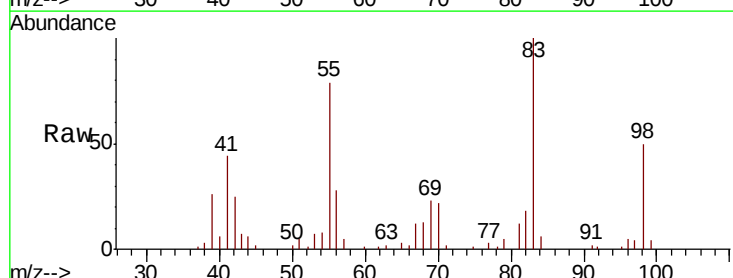
Manual Integrations  
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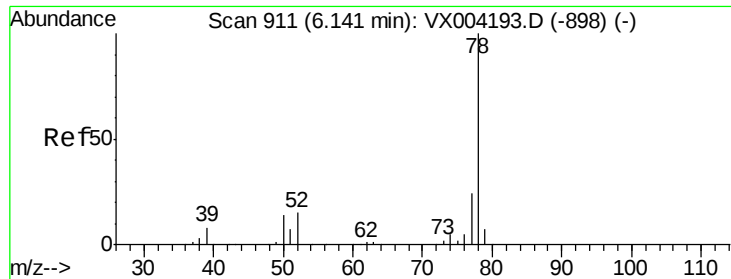
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#39  
Methylcyclohexane  
Concen: 2.78 ug/l  
RT: 7.46 min Scan# 1127  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 83      | 100   | 17389 |       |       |
| 55      | 79.1  | 61.0  | 91.4  |       |
| 98      | 50.1  | 39.6  | 59.4  |       |





#40

Benzene

Concen: 0.30 ug/l

RT: 6.13 min Scan# 910

Delta R.T. -0.01 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

Instrument :

MSVOA\_X

ClientSampleId :

FL-0545DL

Tot Ion: 78 Resp: 4888

Ion Ratio Lower Upper

78 100

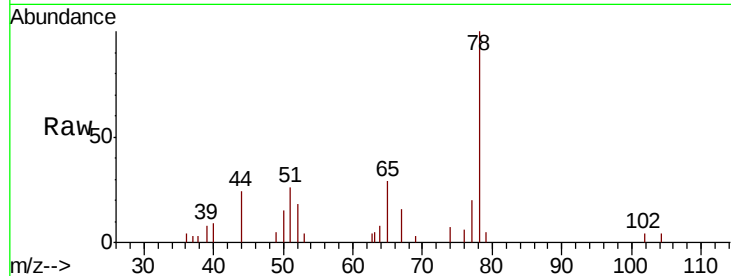
77 19.6 19.0 28.4

Manual Integrations

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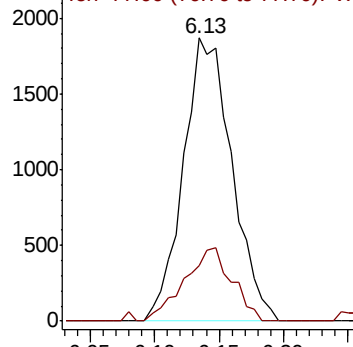
MMDadoda

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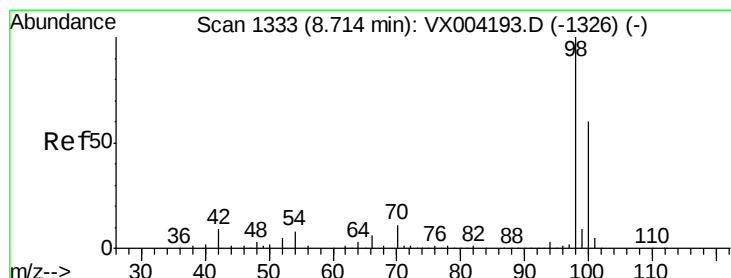
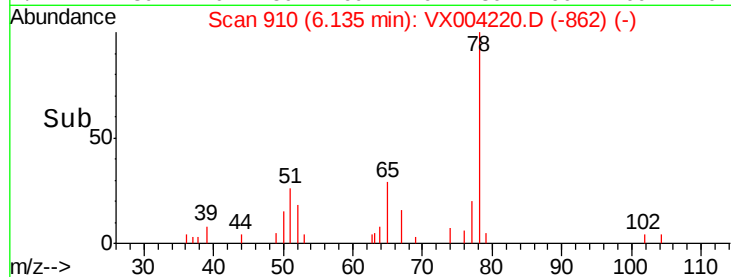


Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#50

Toluene-d8

Concen: 50.07 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004220.D

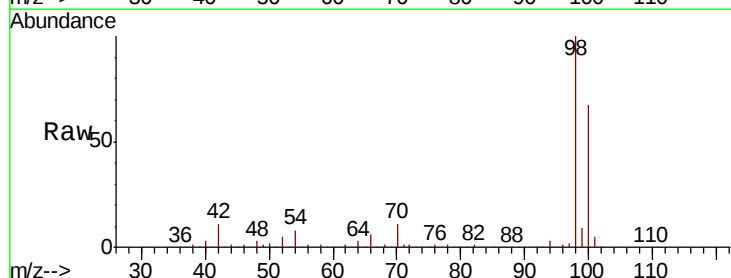
Acq: 23 Aug 2018 12:20

Tgt Ion: 98 Resp: 686351

Ion Ratio Lower Upper

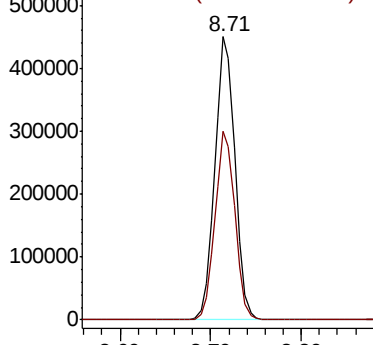
98 100

100 66.3 52.9 79.3

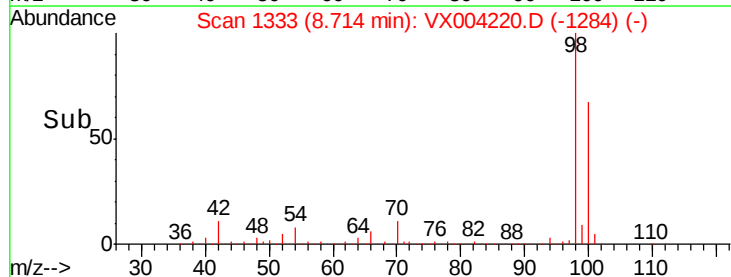


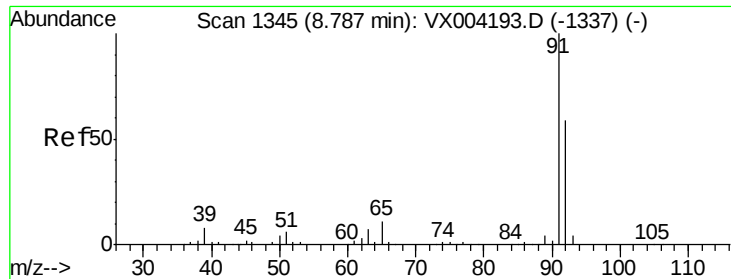
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#52

Toluene

Concen: 1.30 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

Instrument :

MSVOA\_X

ClientSampleId :

FL-0545DL

Tot Ion: 92 Resp: 13354

Ion Ratio Lower Upper

92 100

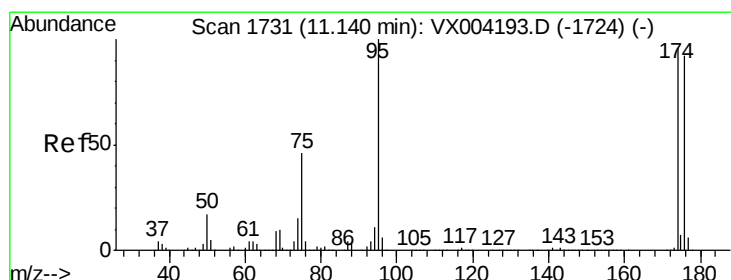
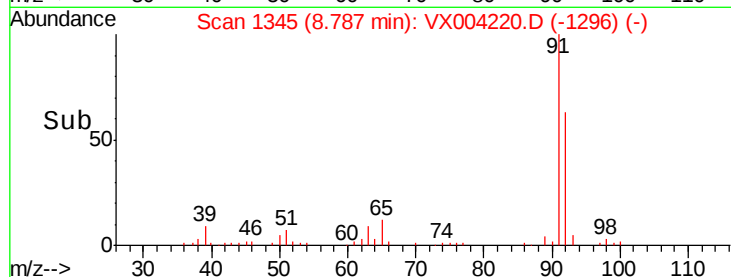
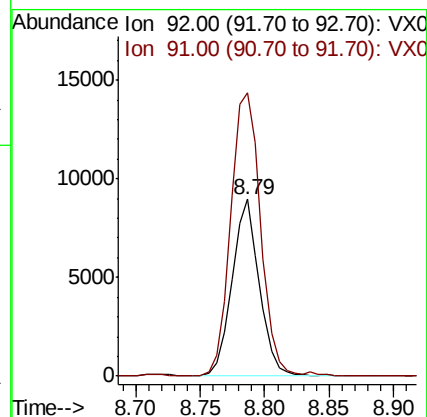
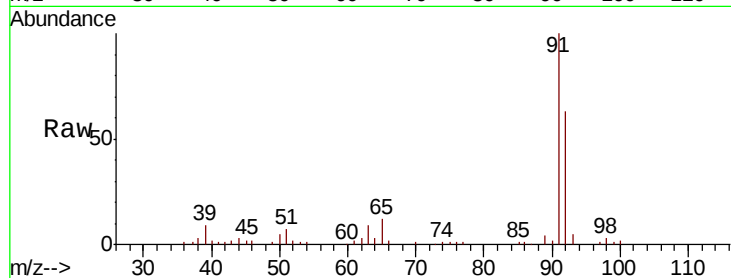
91 173.8 136.4 204.6

Manual Integrations

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8/24/2018 11:35:18 AM



#62

4-Bromofluorobenzene

Concen: 51.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

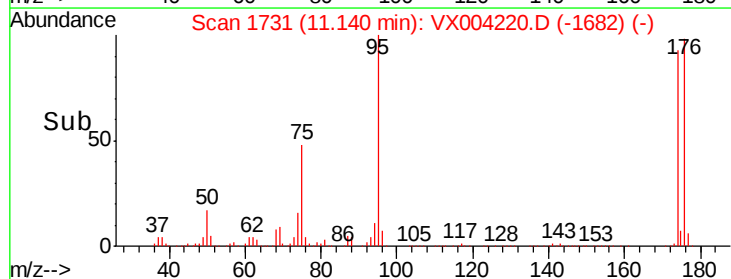
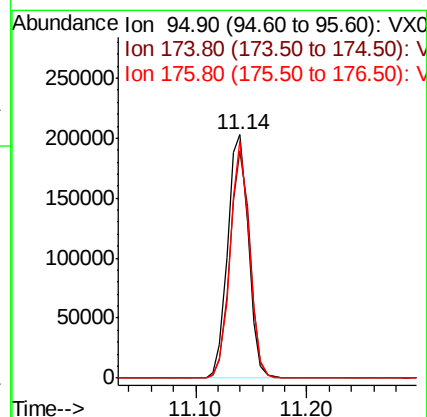
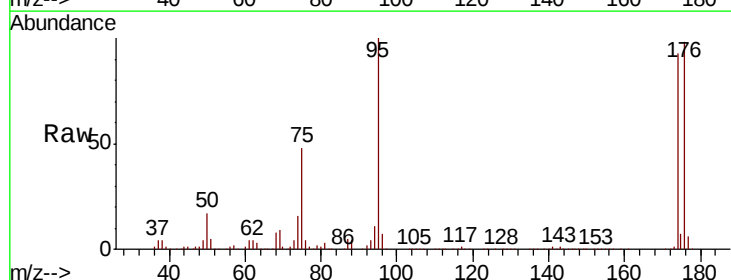
Tgt Ion: 95 Resp: 261974

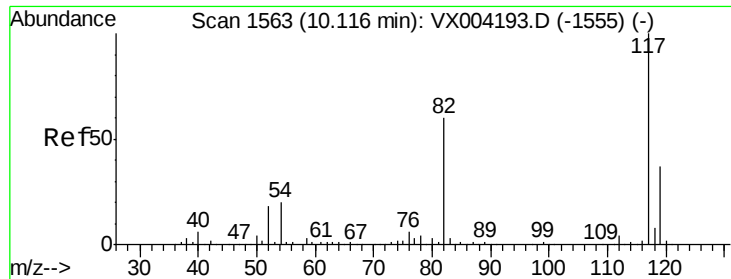
Ion Ratio Lower Upper

95 100

174 90.1 0.0 185.2

176 90.0 0.0 178.6





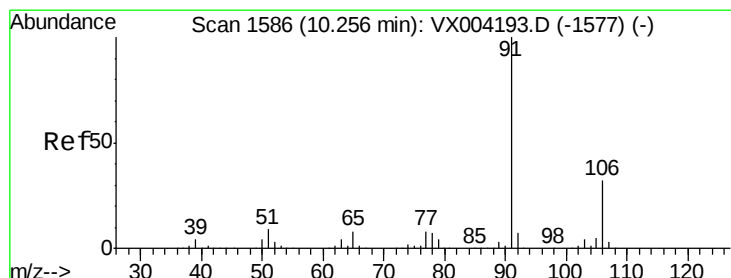
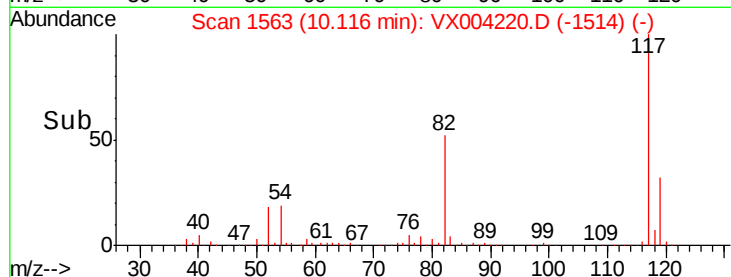
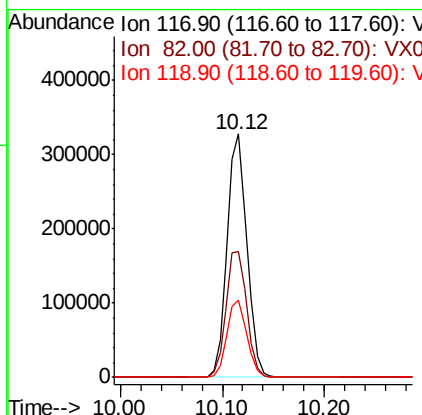
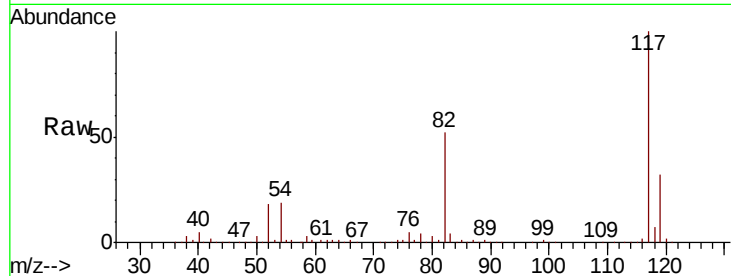
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0545DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.7  | 47.8  | 71.6  |
| 119     | 31.9  | 29.3  | 43.9  |

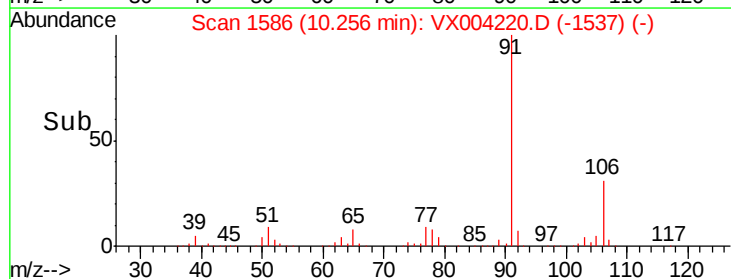
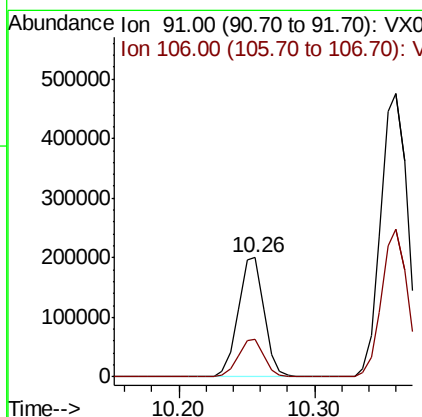
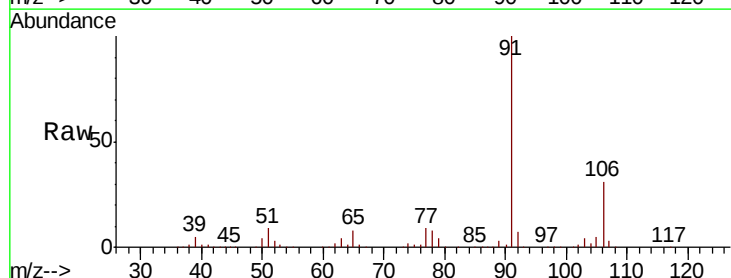
Manual Integrations  
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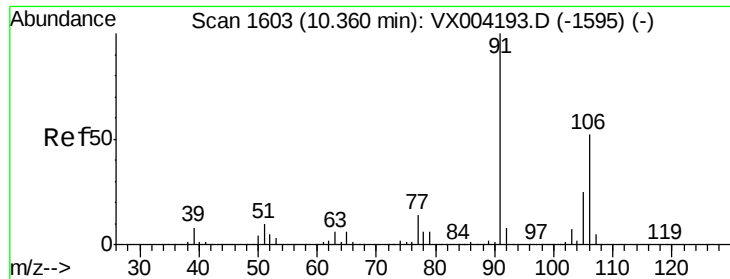
MMDadoda  
8/24/2018 11:35:18 AM



#67  
Ethyl Benzene  
Concen: 14.94 ug/l  
RT: 10.26 min Scan# 1586  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.3  | 25.9  | 38.9  |





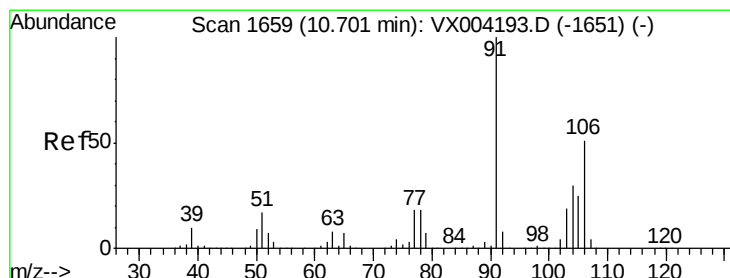
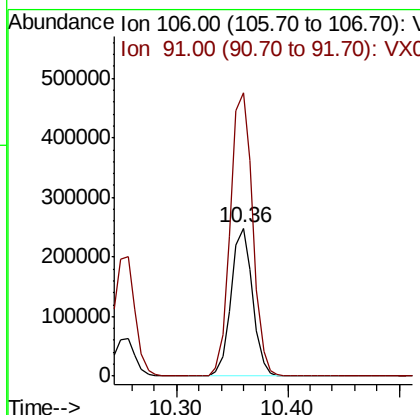
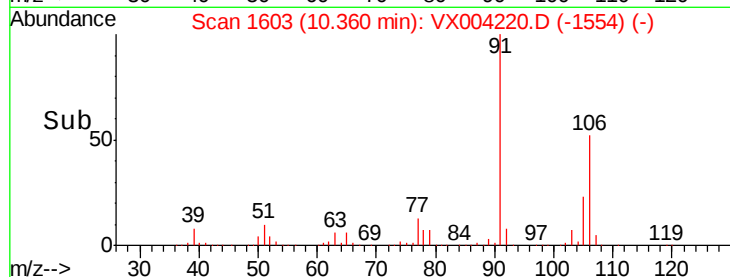
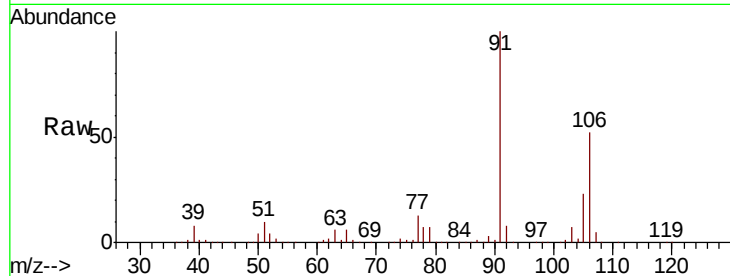
#68  
m/p-Xylenes  
Concen: 47.43 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0545DL

Tot Ion:106 Resp: 330089  
Ion Ratio Lower Upper  
106 100  
91 200.1 157.1 235.7

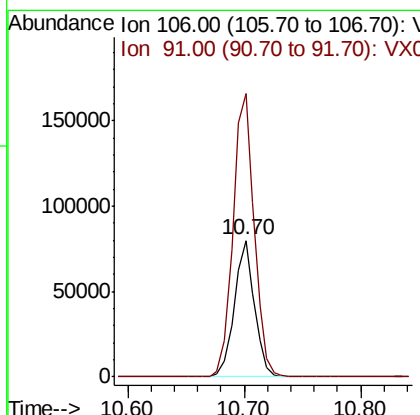
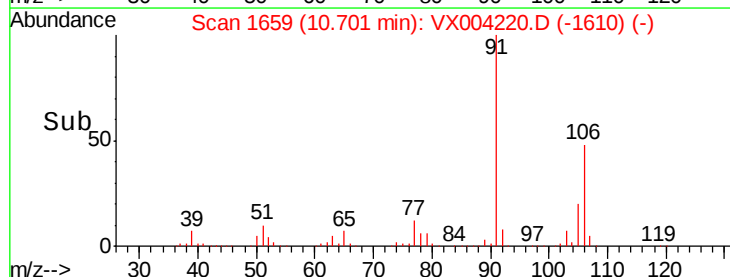
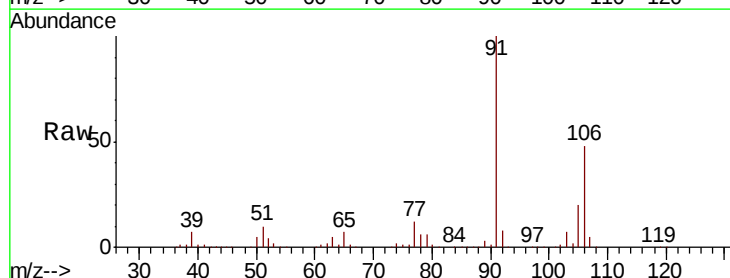
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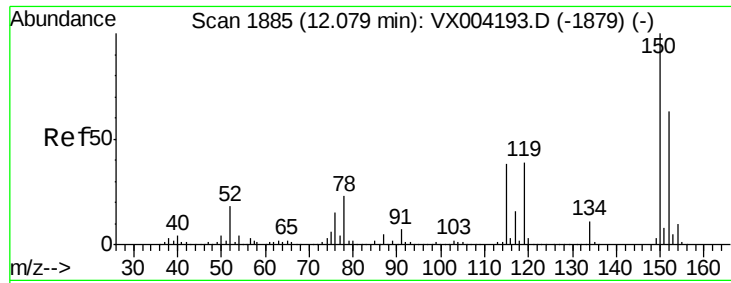
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#69  
o-Xylene  
Concen: 14.61 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Tgt Ion:106 Resp: 96176  
Ion Ratio Lower Upper  
106 100  
91 219.0 105.1 315.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

Instrument :

MSVOA\_X

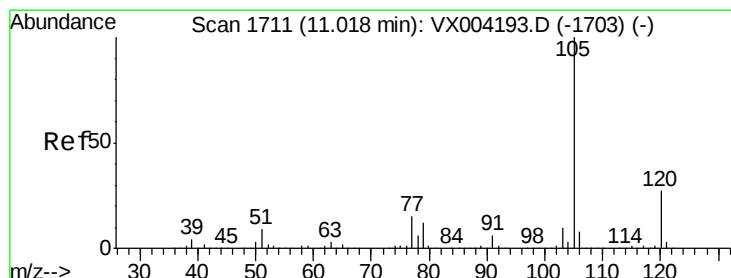
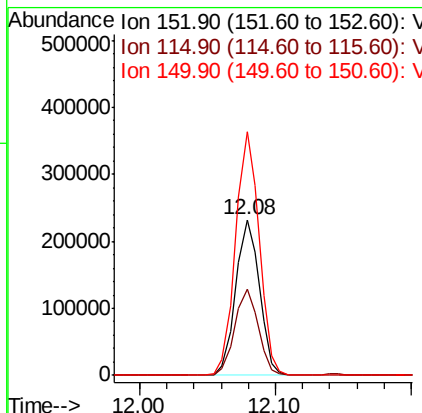
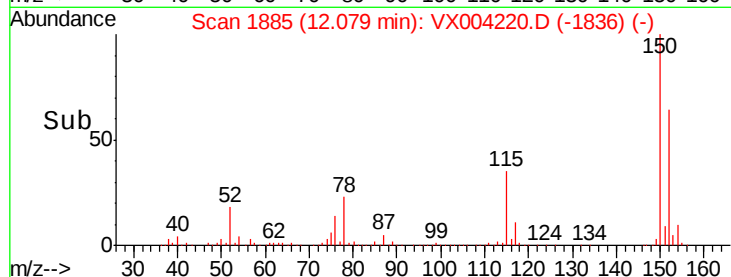
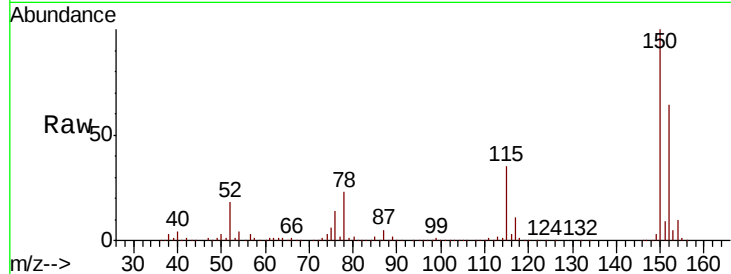
ClientSampleID :

FL-0545DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 281213 |       |       |
| 115     | 55.1  | 39.0   | 117.0 |       |
| 150     | 156.7 | 0.0    | 351.0 |       |

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#73

Isopropylbenzene

Concen: 1.03 ug/l

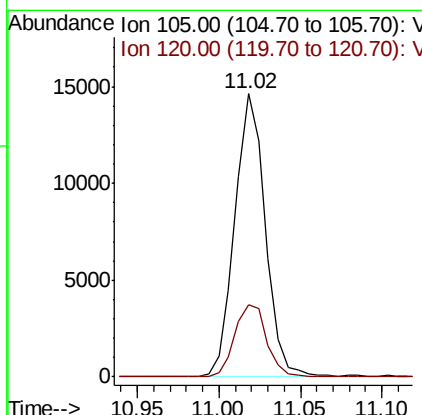
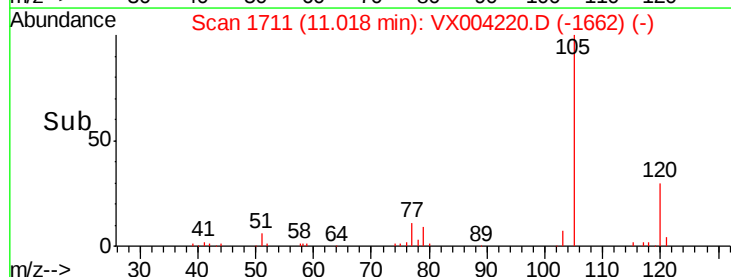
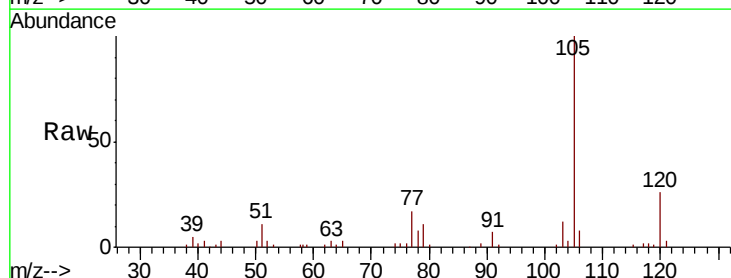
RT: 11.02 min Scan# 1711

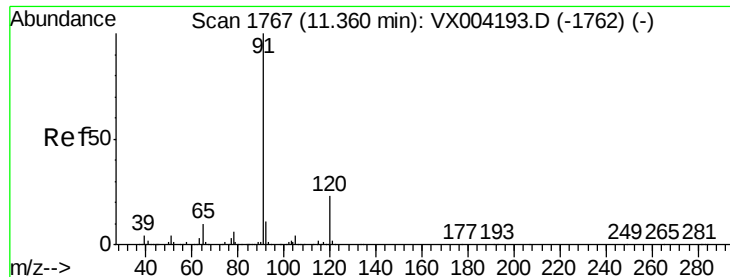
Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 19023 |       |       |
| 120     | 26.5  | 13.5  | 40.4  |       |





#78

n-propylbenzene

Concen: 1.43 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004220.D

Acq: 23 Aug 2018 12:20

Instrument :

MSVOA\_X

ClientSampled :

FL-0545DL

Tot Ion: 91 Resp: 30282

Ion Ratio Lower Upper

91 100

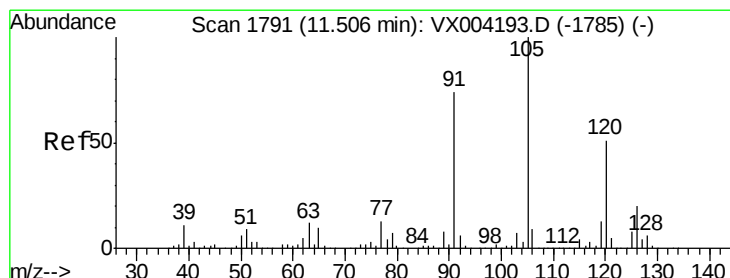
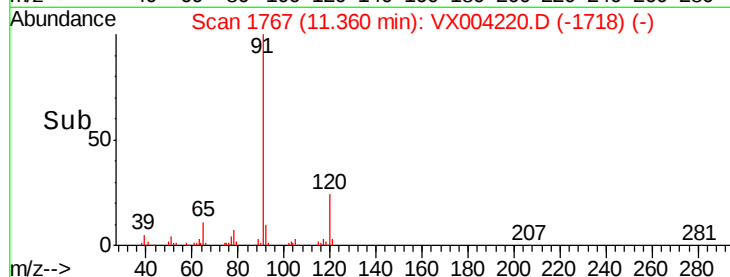
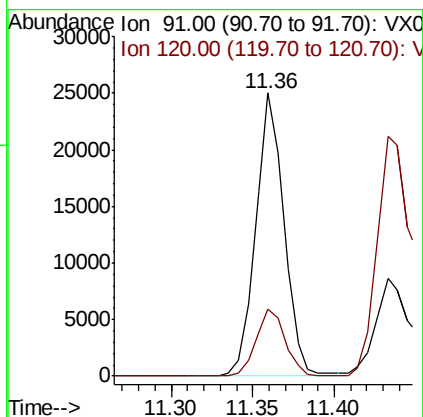
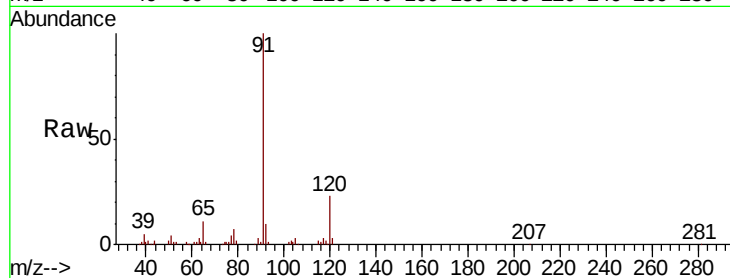
120 24.4 11.9 35.9

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#80

1,3,5-Trimethylbenzene

Concen: 3.36 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX004220.D

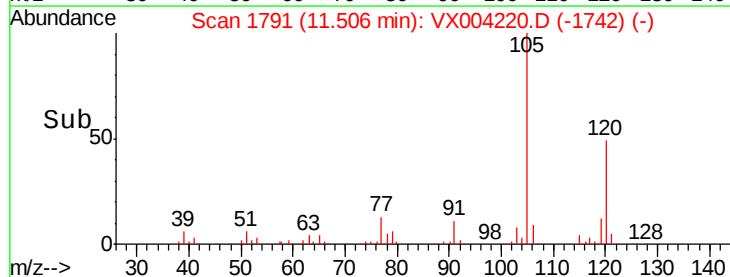
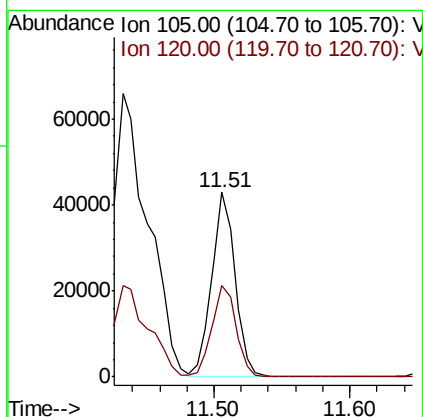
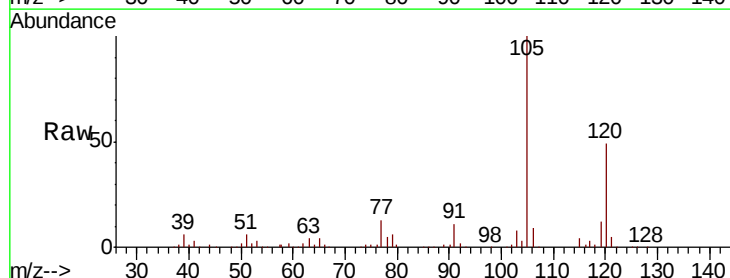
Acq: 23 Aug 2018 12:20

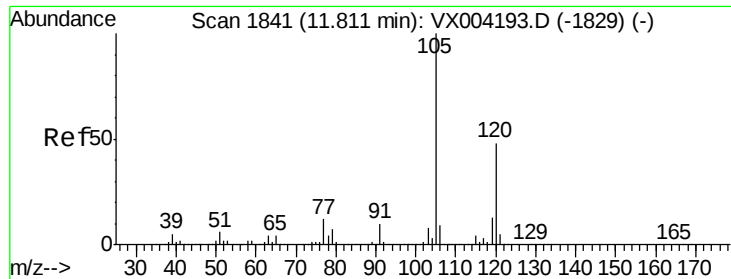
Tgt Ion: 105 Resp: 51340

Ion Ratio Lower Upper

105 100

120 51.5 25.6 76.8





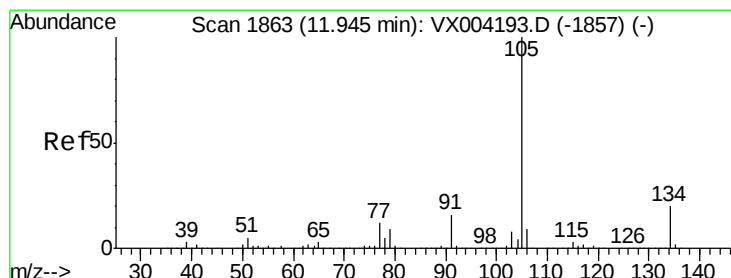
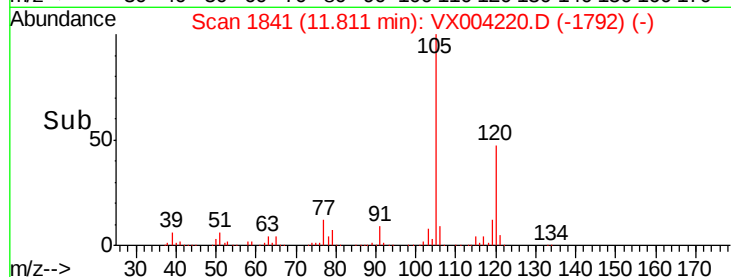
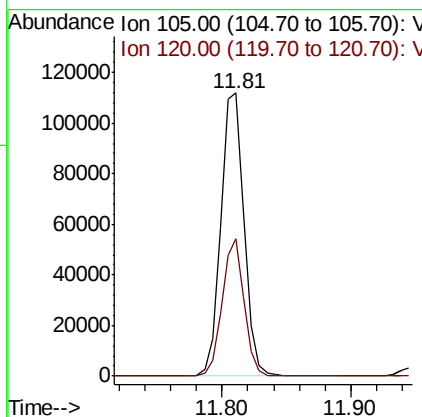
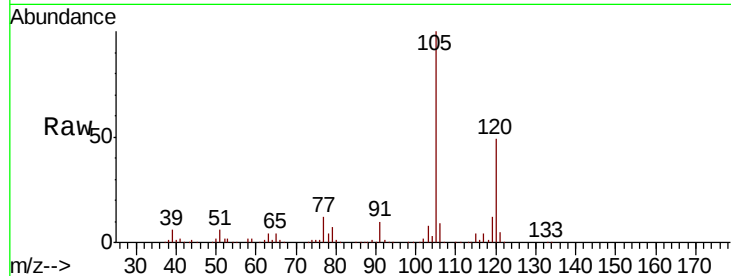
#84  
1,2,4-Trimethylbenzene  
Concen: 9.10 ug/l  
RT: 11.81 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0545DL

Tot Ion:105 Resp: 142840  
Ion Ratio Lower Upper  
105 100  
120 46.0 23.2 69.6

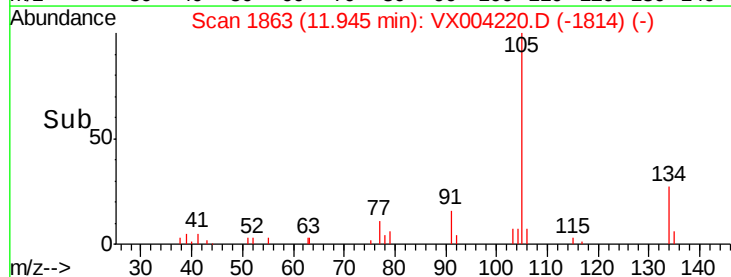
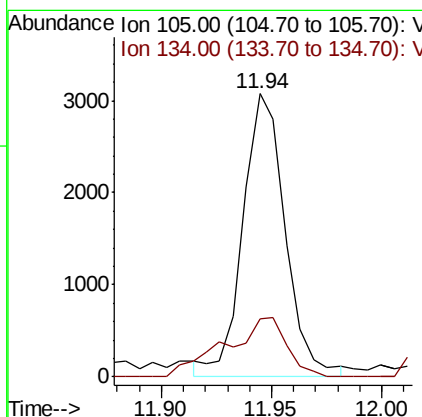
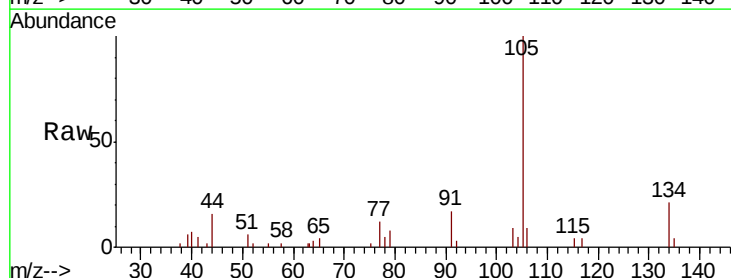
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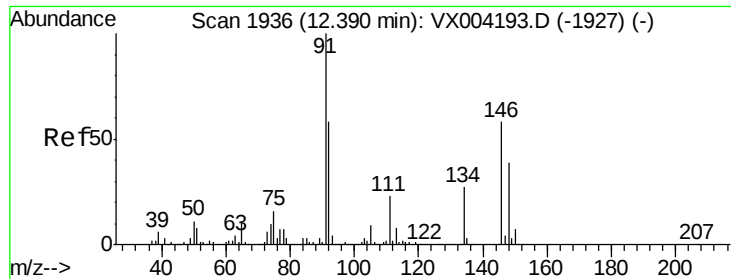
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#85  
sec-Butylbenzene  
Concen: 0.23 ug/l m  
RT: 11.94 min Scan# 1863  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Tgt Ion:105 Resp: 4114  
Ion Ratio Lower Upper  
105 100  
134 4.2 10.5 31.5#





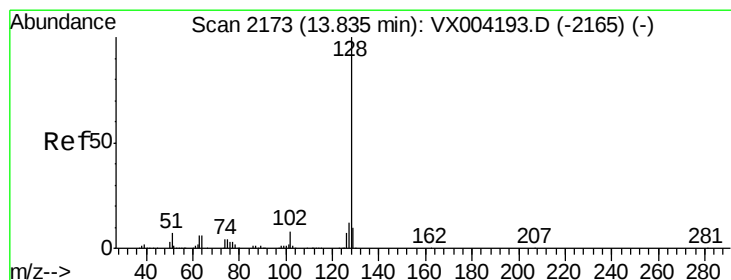
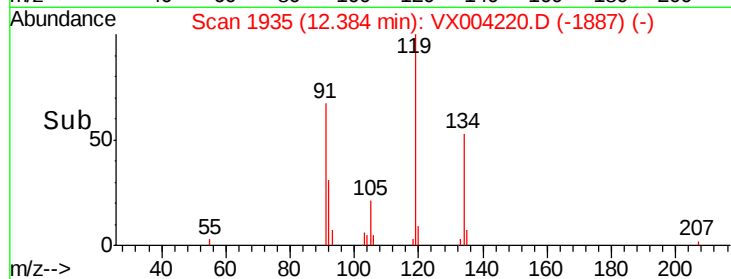
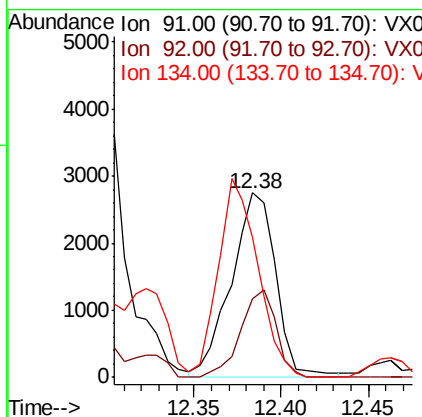
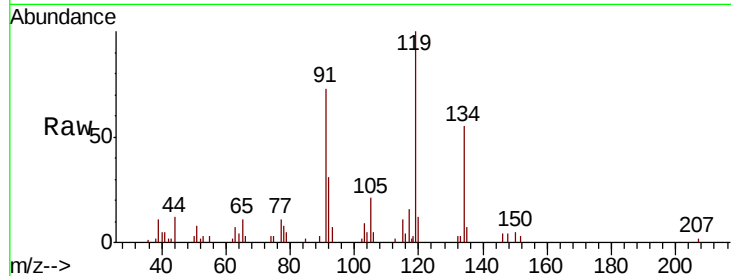
#89  
n-Butylbenzene  
Concen: 0.37 ug/l  
RT: 12.38 min Scan# 1935  
Delta R.T. -0.01 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

Instrument :  
MSVOA\_X  
ClientSampleID :  
FL-0545DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 37.8  | 27.3  | 81.9  |
| 134     | 94.9  | 13.6  | 40.7  |

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#95  
Naphthalene  
Concen: 4.21 ug/l  
RT: 13.83 min Scan# 2173  
Delta R.T. -0.00 min  
Lab File: VX004220.D  
Acq: 23 Aug 2018 12:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.9  | 10.2  | 15.2  |
| 129     | 11.2  | 8.6   | 12.8  |

