

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
 Data File : BF101861.D  
 Acq On : 3 Jan 2018 15:50  
 Operator : SJ/JU  
 Sample : I6680-27 2X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-122917-D

Manual Integrations  
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Quant Time: Jan 04 03:06:05 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 29 13:21:45 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 144674   | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8          | 8.05  | 136  | 483604   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10        | 9.80  | 164  | 181245   | 20.00  | ng    | -0.02       |
| 63) Phenanthrene-d10        | 11.30 | 188  | 354600   | 20.00  | ng    | -0.02       |
| 75) Chrysene-d12            | 13.95 | 240  | 374772   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12            | 15.42 | 264  | 318682   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.40  | 112  | 401122   | 41.30  | ng    | 0.00        |
| 7) Phenol-d6                | 6.42  | 99   | 454499   | 37.60  | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 257894   | 29.69  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 75379    | 43.16  | ng    | -0.02       |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 396653   | 33.95  | ng    | -0.02       |
| 78) Terphenyl-d14           | 12.87 | 244  | 414516   | 26.66  | ng    | -0.02       |
| Target Compounds            |       |      |          |        |       |             |
| 49) Dimethylphthalate       | 9.53  | 163  | 43028    | 2.951  | ng    | Qvalue # 98 |
| 70) Phenanthrene            | 11.32 | 178  | 97730    | 4.956  | ng    | 98          |
| 71) Anthracene              | 11.38 | 178  | 41939    | 2.082  | ng    | 99          |
| 74) Fluoranthene            | 12.52 | 202  | 232361   | 11.226 | ng    | 99          |
| 77) Pyrene                  | 12.75 | 202  | 245175   | 8.717  | ng    | 99          |
| 80) Benzo(a)anthracene      | 13.94 | 228  | 135811   | 5.488  | ng    | 97          |
| 82) Chrysene                | 13.97 | 228  | 127514   | 5.457  | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.92 | 276  | 58941    | 2.833  | ng    | # 91        |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 164487m  | 8.468  | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.02 | 252  | 48433m   | 2.565  | ng    |             |
| 89) Benzo(a)pyrene          | 15.36 | 252  | 112518   | 6.284  | ng    | # 95        |
| 91) Benzo(a,h,i)perylene    | 17.36 | 276  | 60430    | 3.969  | ng    | # 95        |

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

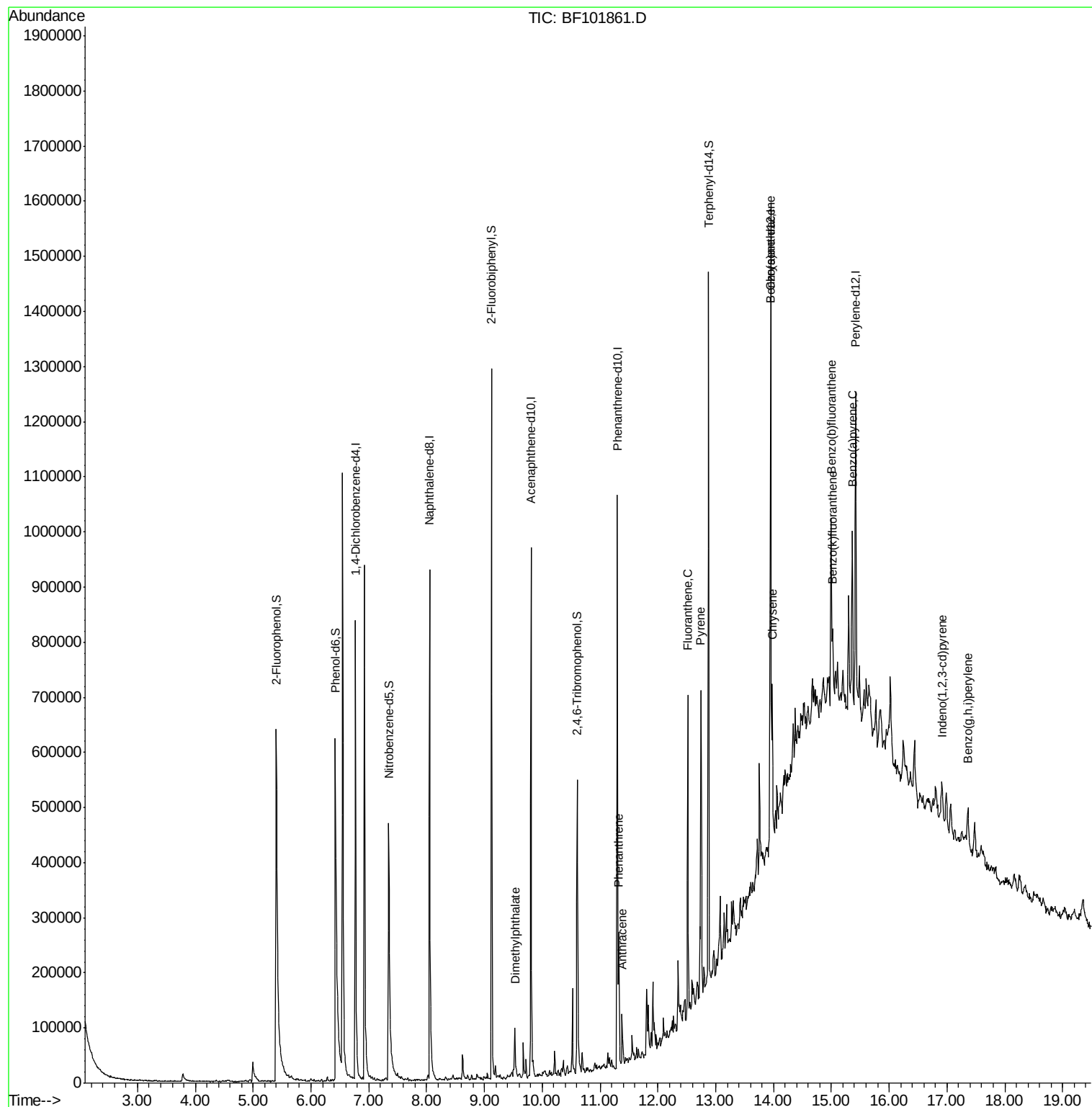
Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101861.D  
Acq On : 3 Jan 2018 15:50  
Operator : SJ/JU  
Sample : I6680-27 2X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

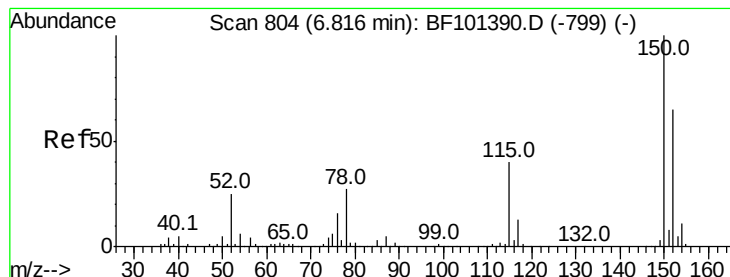
Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

Manual Integrations  
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Quant Time: Jan 04 03:06:05 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 29 13:21:45 2017  
Response via : Initial Calibration





#1

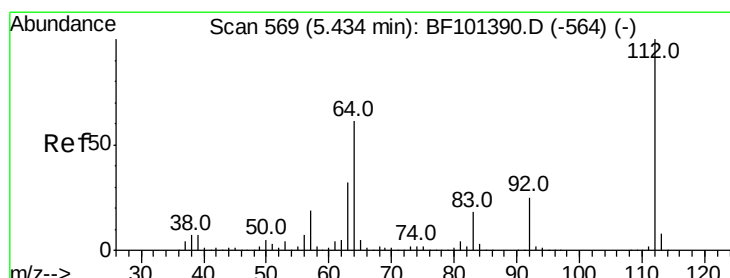
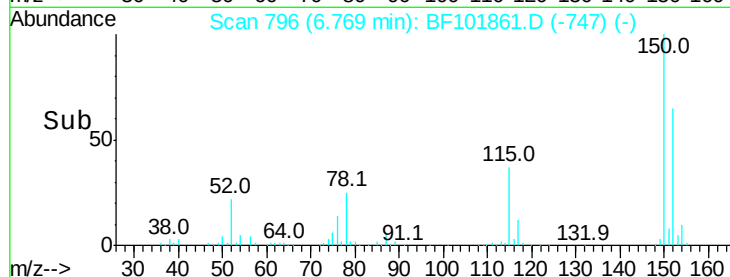
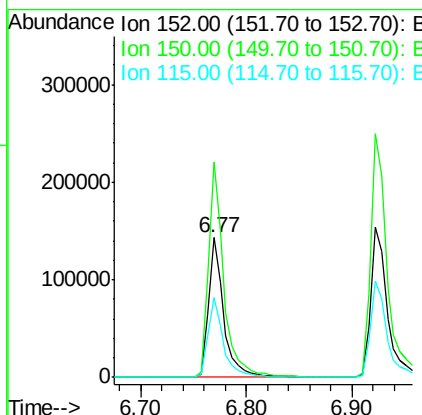
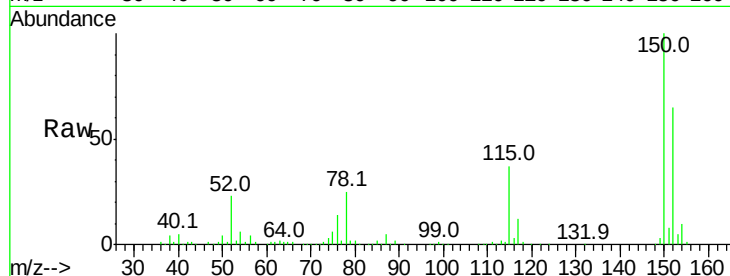
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. -0.01 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.3 | 124.6 | 186.8 |
| 115     | 57.6  | 50.1  | 75.1  |

Manual Integrations  
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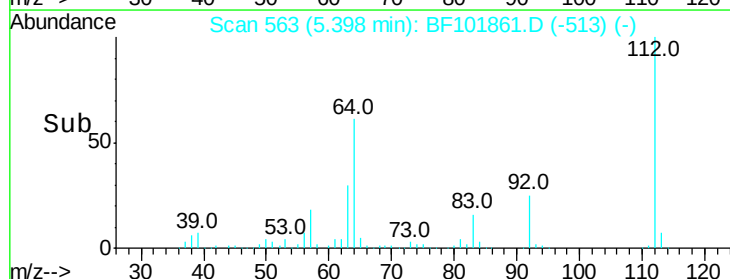
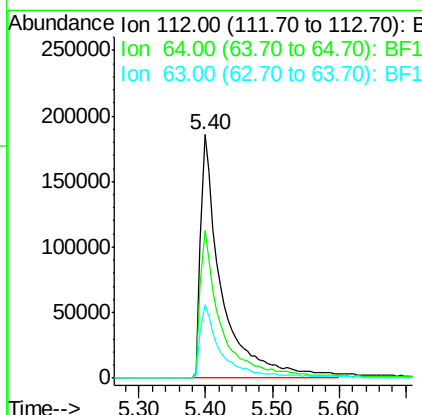
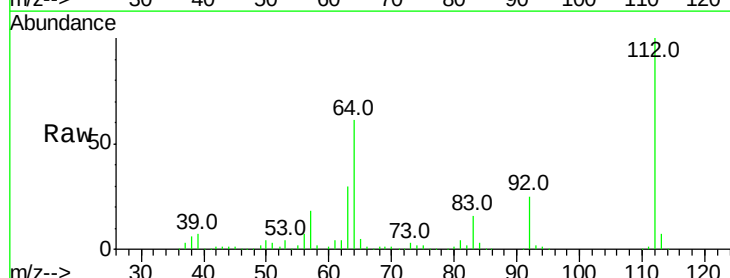
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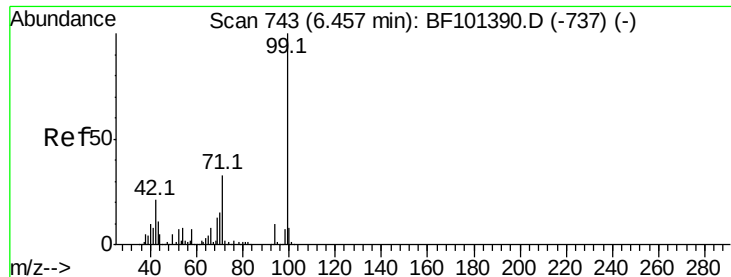


#5

2-Fluorophenol  
Concen: 41.300 ng  
RT: 5.40 min Scan# 563  
Delta R.T. -0.01 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.8  | 47.9  | 71.9  |
| 63      | 29.9  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 37.601 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF101861.D

Acq: 3 Jan 2018 15:50

Instrument :

BNA\_F

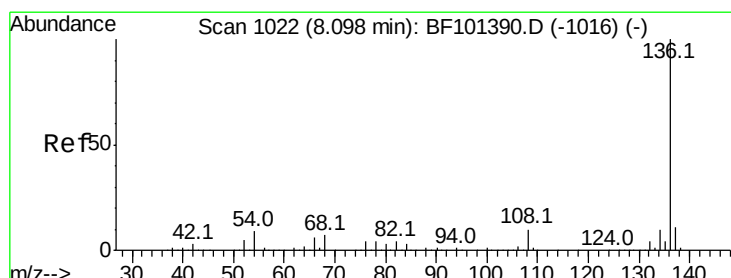
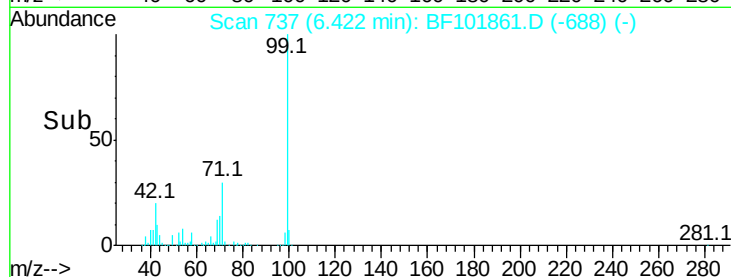
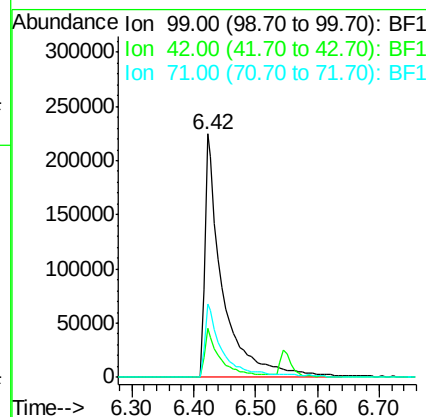
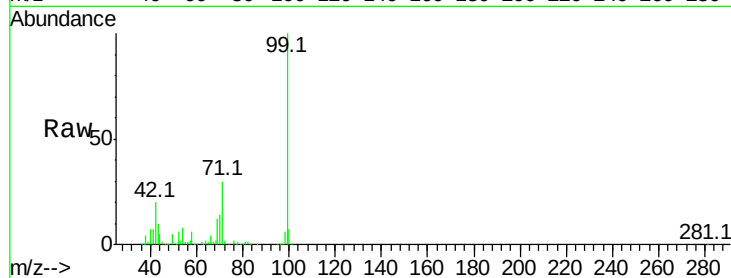
ClientSampleId :

CL-01-122917-D

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 454499 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 20.1  | 14.5  | 21.7   |
| 71       | 30.1  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

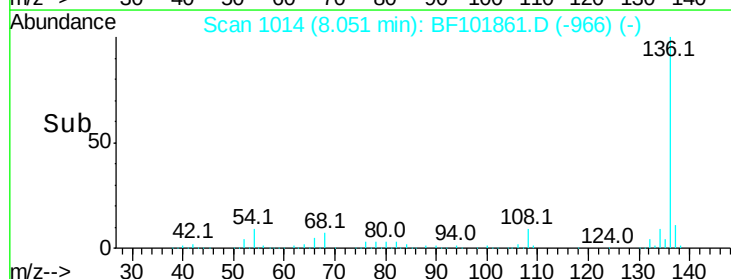
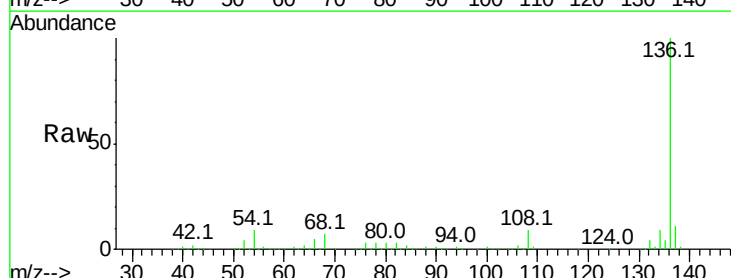
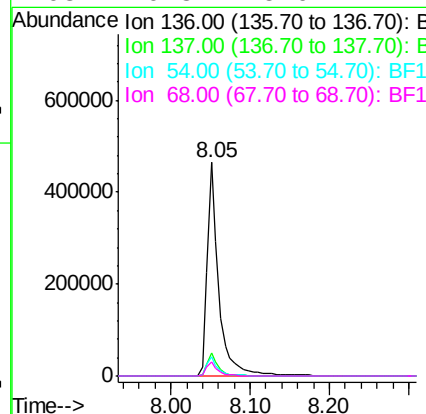
RT: 8.05 min Scan# 1014

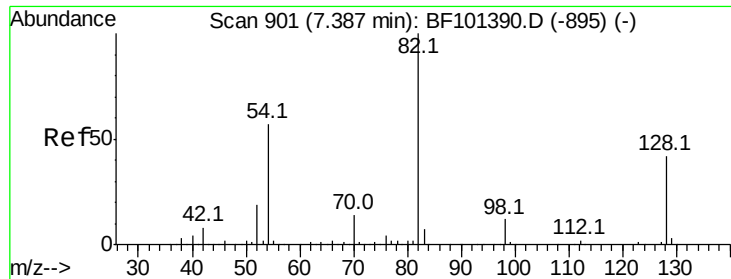
Delta R.T. -0.02 min

Lab File: BF101861.D

Acq: 3 Jan 2018 15:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 483604 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 8.7   | 6.6   | 9.8    |
| 68       | 6.8   | 5.0   | 7.4    |





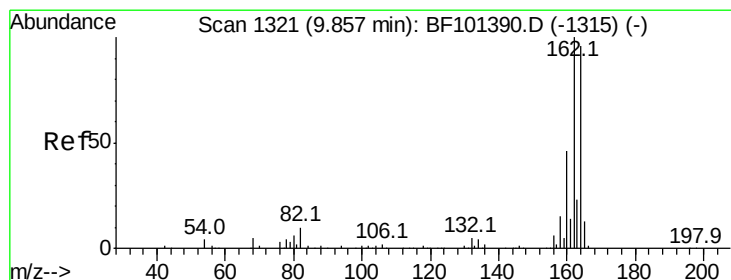
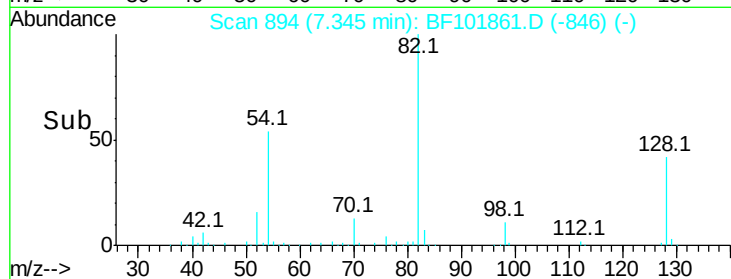
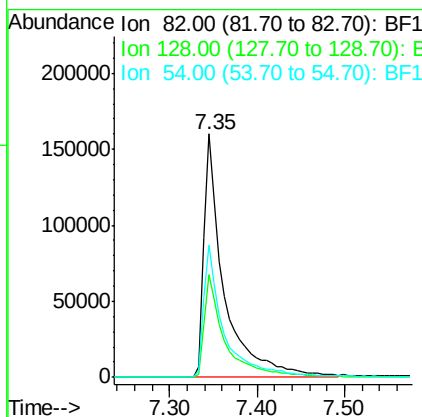
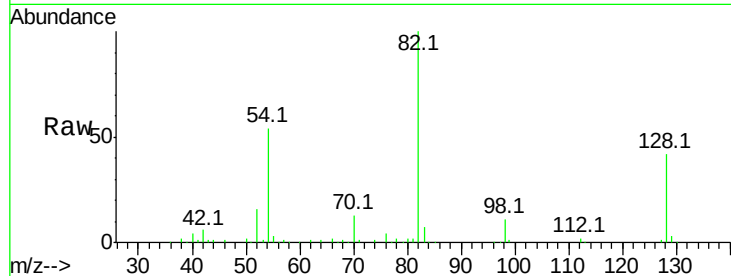
#23  
 Nitrobenzene-d5  
 Concen: 29.685 ng  
 RT: 7.35 min Scan# 894  
 Delta R.T. -0.02 min  
 Lab File: BF101861.D  
 Acq: 3 Jan 2018 15:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-122917-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.3  | 36.1  | 54.1  |
| 54      | 54.2  | 41.4  | 62.2  |

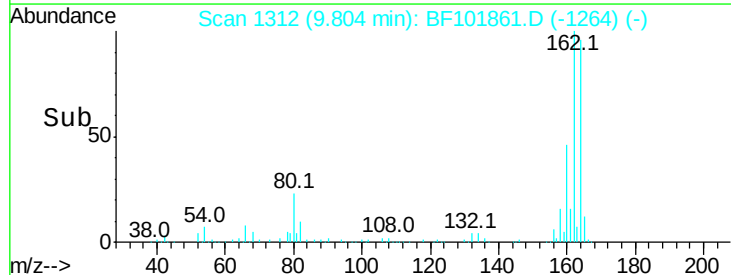
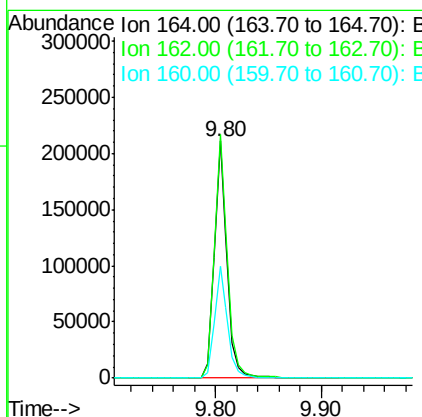
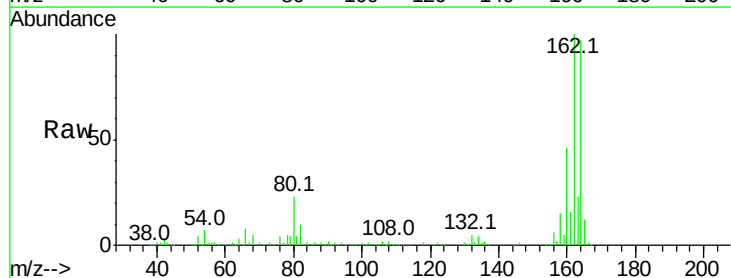
Manual Integrations  
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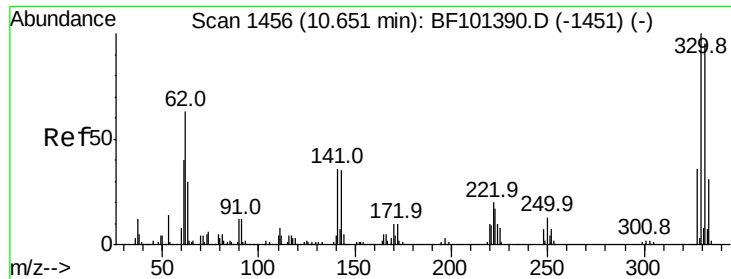
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.80 min Scan# 1312  
 Delta R.T. -0.02 min  
 Lab File: BF101861.D  
 Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.9 | 86.1  | 129.1 |
| 160     | 47.0  | 38.3  | 57.5  |





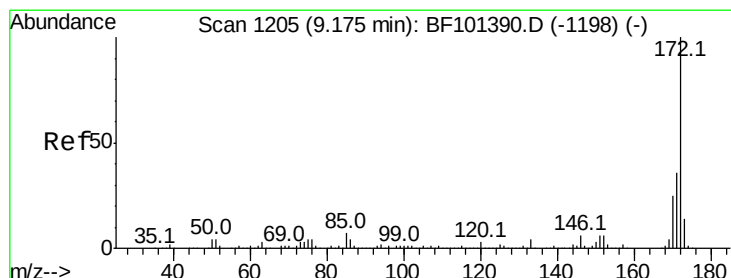
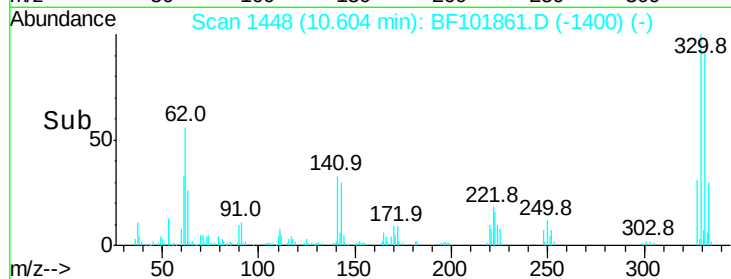
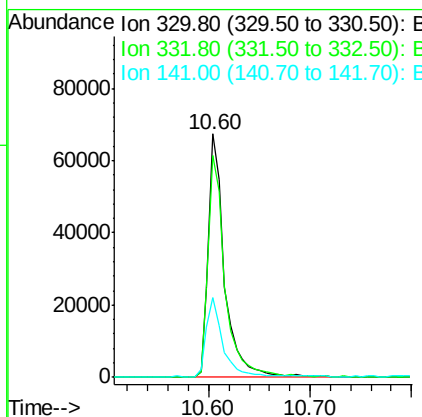
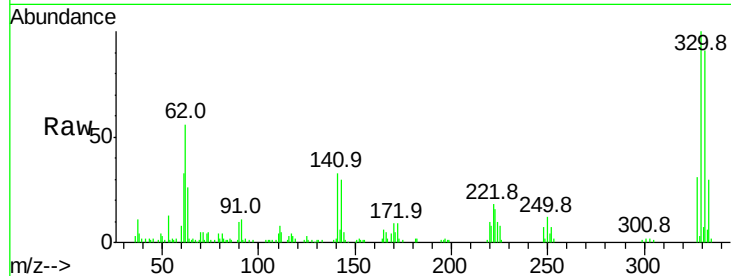
#41  
 2,4,6-Tribromophenol  
 Concen: 43.162 ng  
 RT: 10.60 min Scan# 1448  
 Delta R.T. -0.02 min  
 Lab File: BF101861.D  
 Acq: 3 Jan 2018 15:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-122917-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 77.0  | 115.6 |
| 141     | 33.9  | 29.9  | 44.9  |

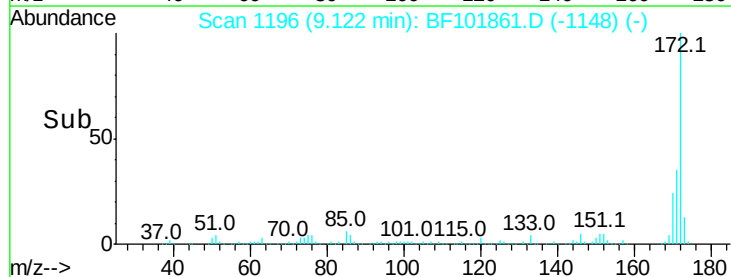
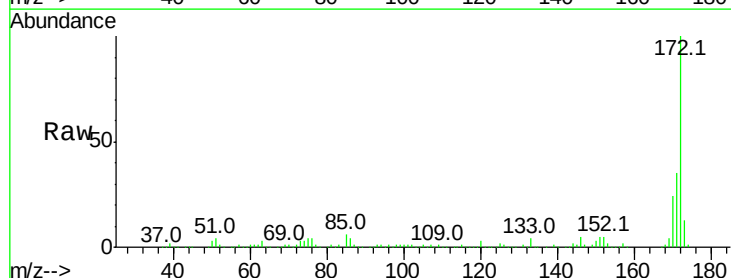
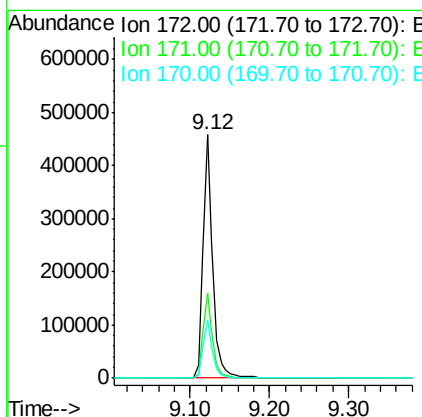
Manual Integrations  
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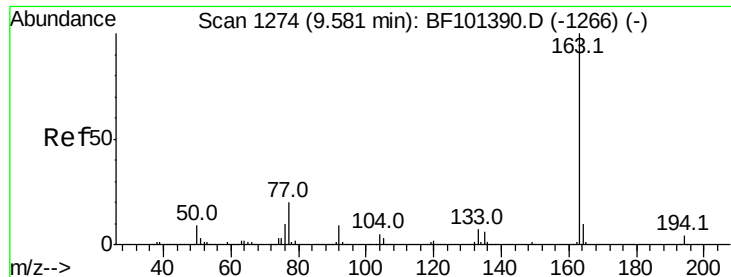
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#44  
 2-Fluorobiphenyl  
 Concen: 33.949 ng  
 RT: 9.12 min Scan# 1196  
 Delta R.T. -0.02 min  
 Lab File: BF101861.D  
 Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 29.7  | 44.5  |
| 170     | 23.7  | 19.6  | 29.4  |





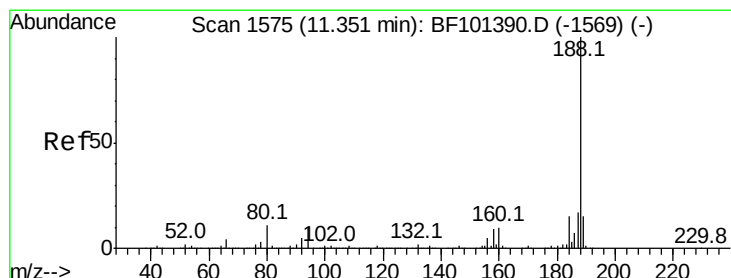
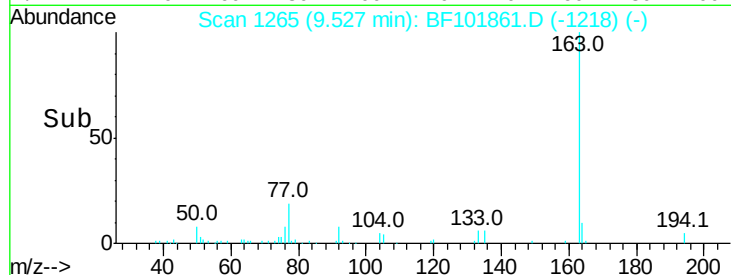
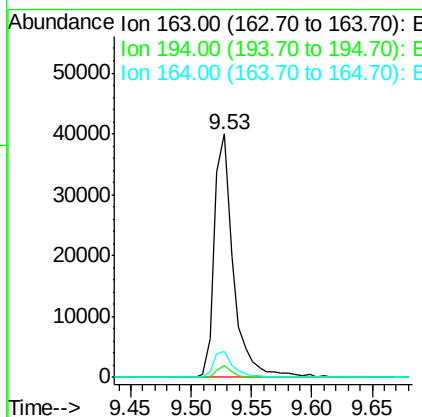
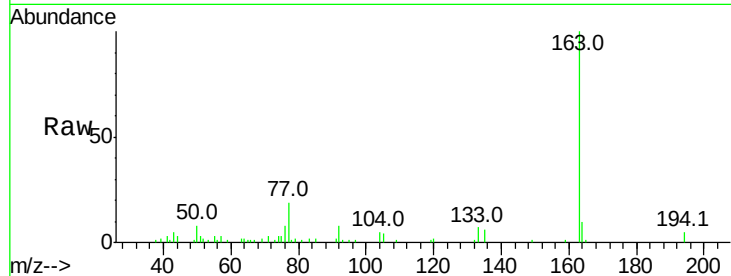
#49  
Dimethylphthalate  
Concen: 2.951 ng  
RT: 9.53 min Scan# 1265  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.7   | 2.7   | 4.1#  |
| 164     | 10.5  | 8.2   | 12.2  |

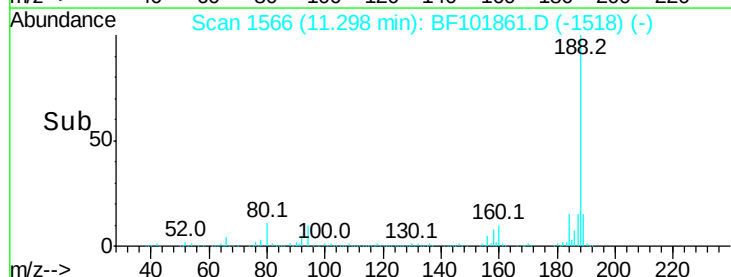
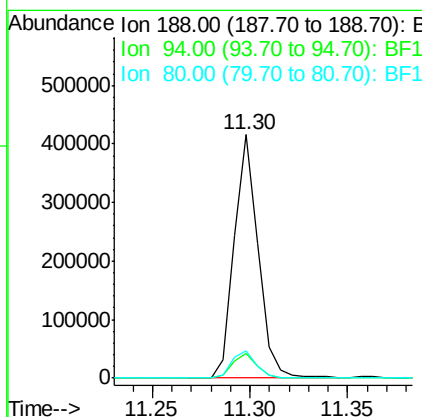
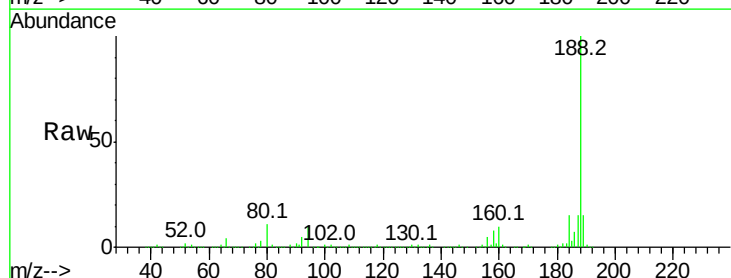
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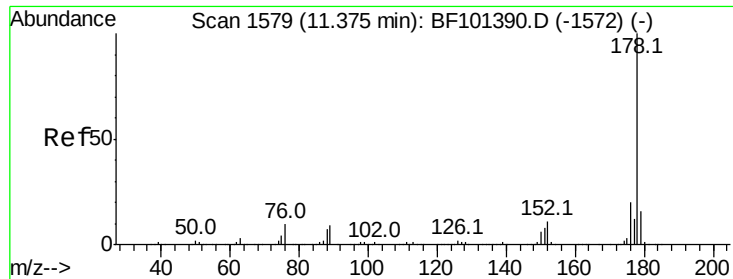
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.30 min Scan# 1566  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.0  | 8.5   | 12.7  |
| 80      | 11.0  | 9.2   | 13.8  |





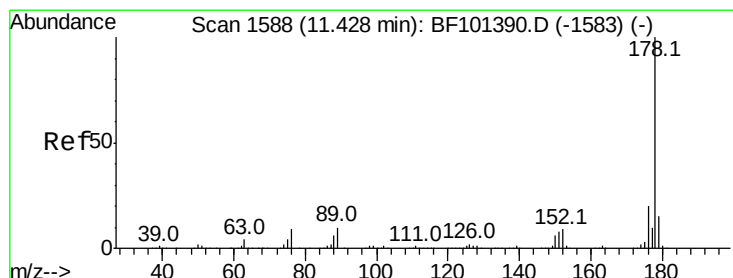
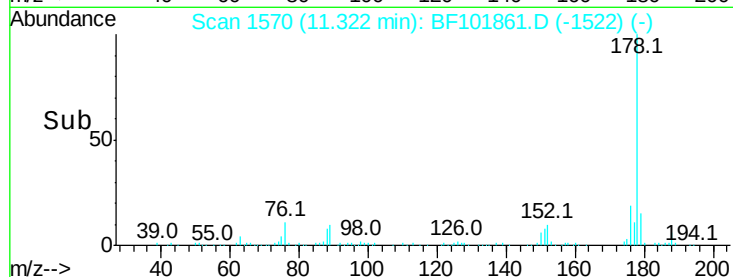
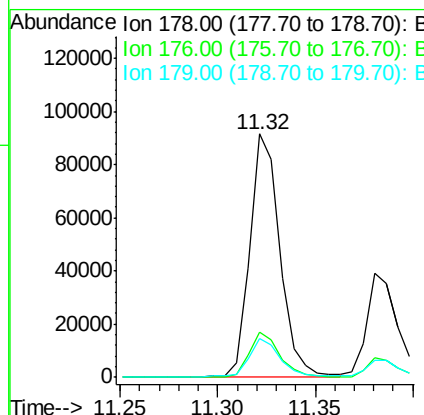
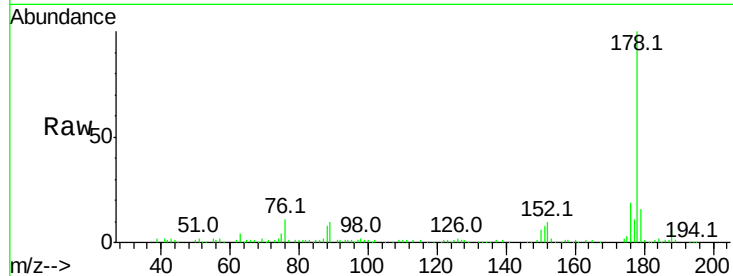
#70  
Phenanthrene  
Concen: 4.956 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

Tot Ion:178 Resp: 97730  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.8 23.8  
179 15.9 13.0 19.6

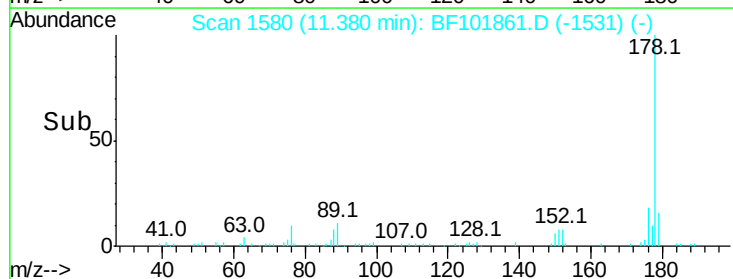
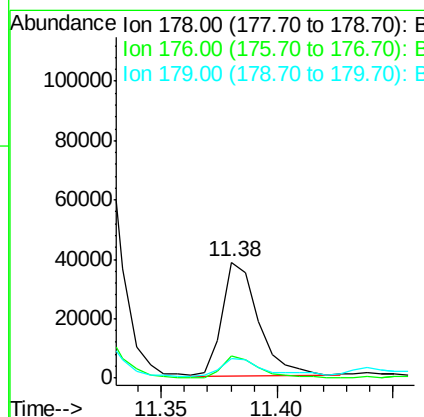
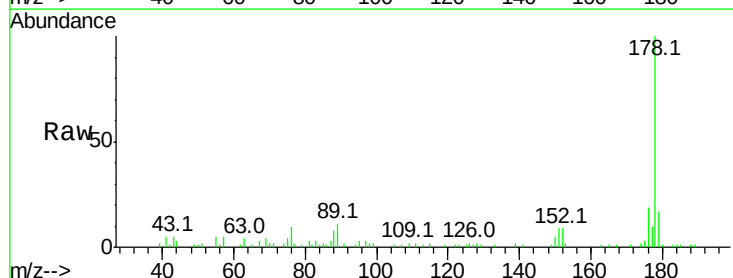
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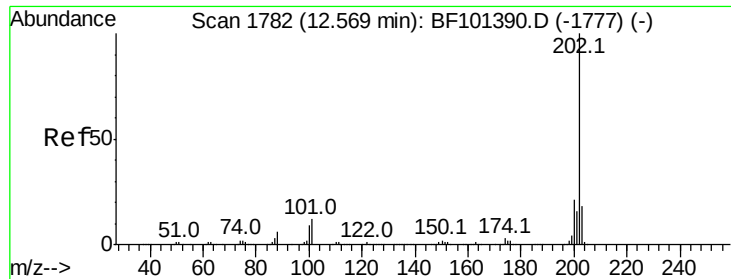


#71  
Anthracene  
Concen: 2.082 ng  
RT: 11.38 min Scan# 1580  
Delta R.T. -0.01 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Tgt Ion:178 Resp: 41939  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 16.6 12.6 19.0







#74

Fluoranthene

Concen: 11.226 ng

RT: 12.52 min Scan# 1773

Delta R.T. -0.02 min

Lab File: BF101861.D

Acq: 3 Jan 2018 15:50

Instrument :

BNA\_F

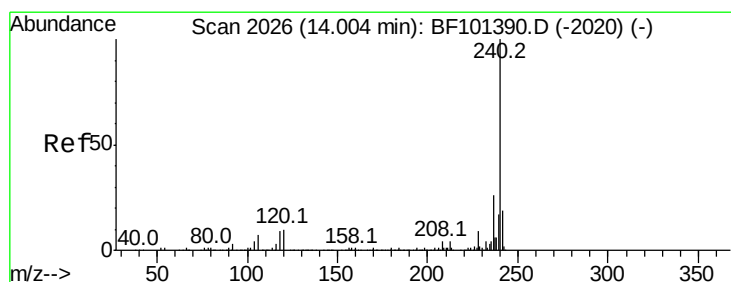
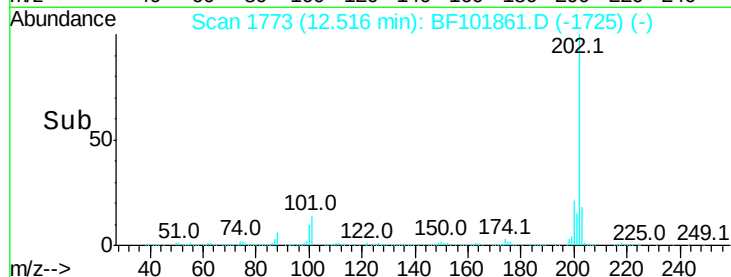
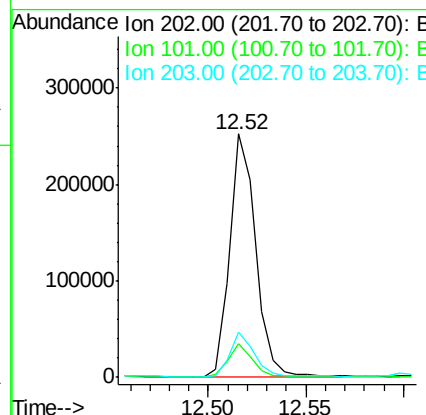
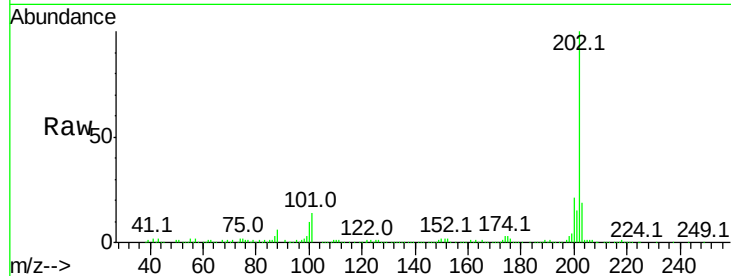
ClientSampleId :

CL-01-122917-D

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.6  | 0.0        | 34.1  |
| 203     | 18.5  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

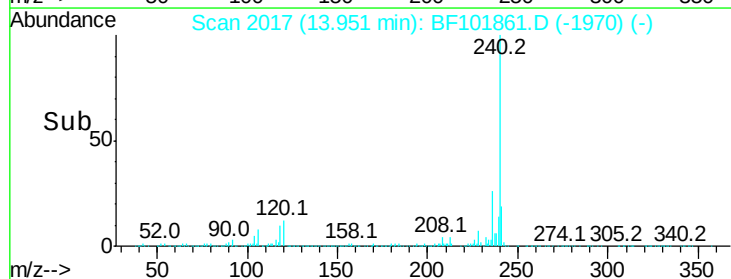
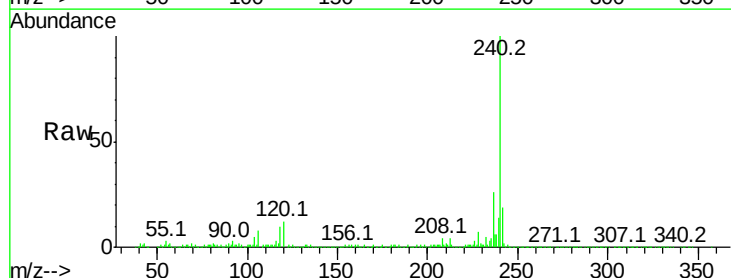
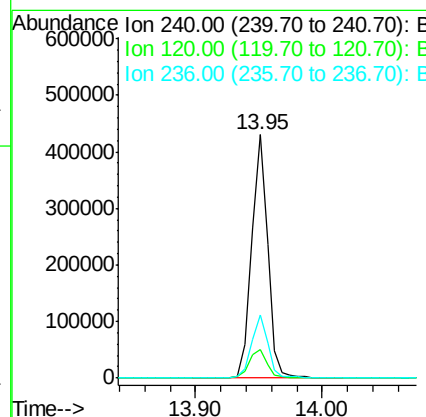
RT: 13.95 min Scan# 2017

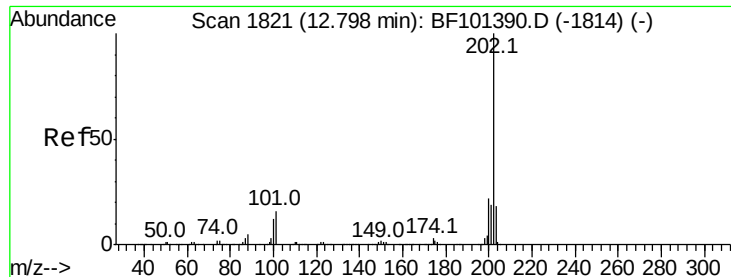
Delta R.T. -0.02 min

Lab File: BF101861.D

Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 12.0  | 9.5        | 14.3  |
| 236     | 25.8  | 20.7       | 31.1  |





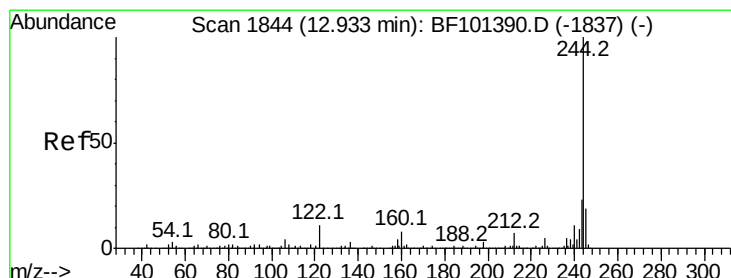
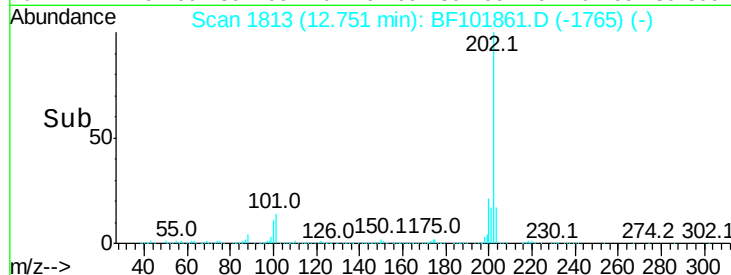
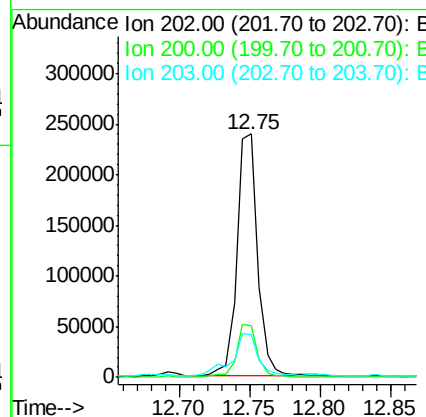
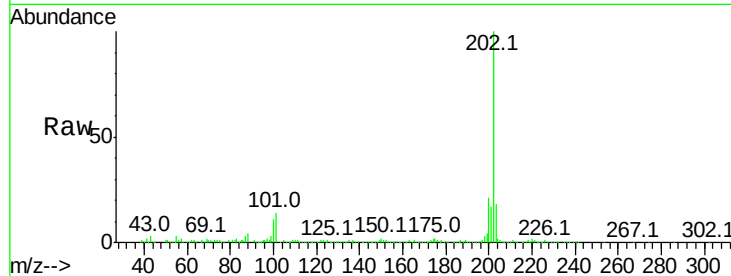
#77  
Pvrene  
Concen: 8.717 ng  
RT: 12.75 min Scan# 1813  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.4  | 17.4       | 26.2  |
| 203     | 17.7  | 14.3       | 21.5  |

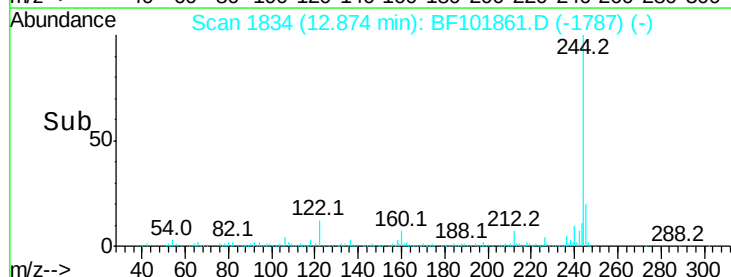
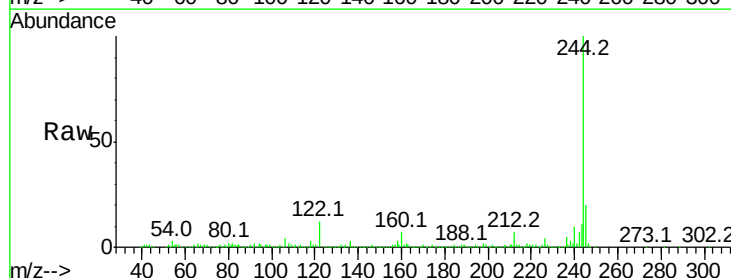
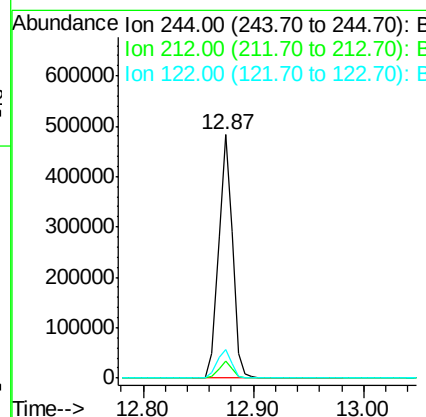
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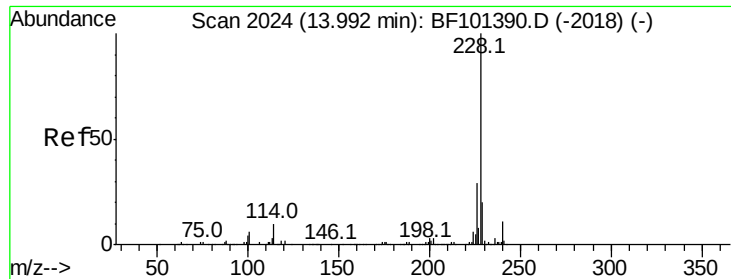
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#78  
Terphenyl-d14  
Concen: 26.664 ng  
RT: 12.87 min Scan# 1834  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.0   | 5.4        | 8.0   |
| 122     | 11.9  | 11.0       | 16.4  |





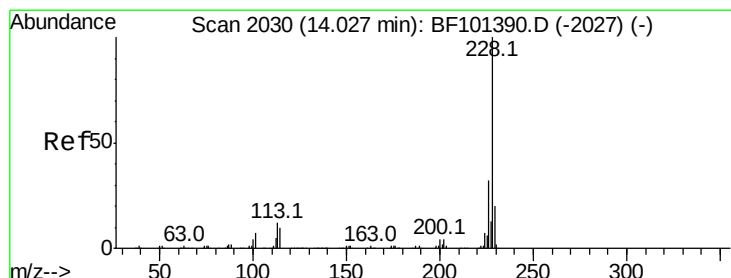
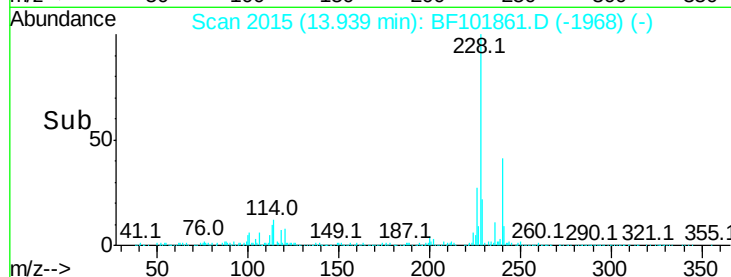
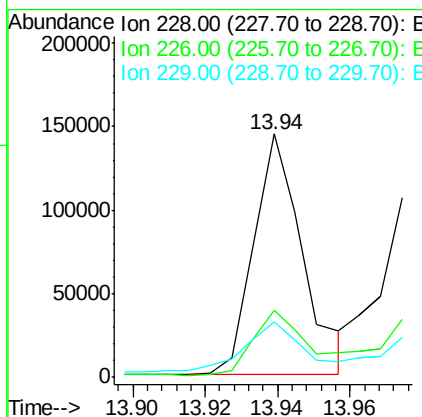
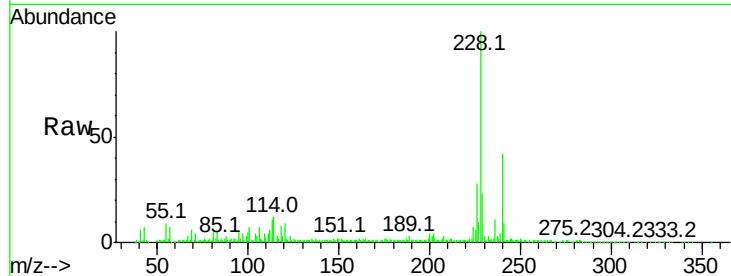
#80  
Benzo(a)anthracene  
Concen: 5.488 ng  
RT: 13.94 min Scan# 2015  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 228     | 100  |       |      |       |       |
| 226     | 27.8 | 22.6  | 33.8 |       |       |
| 229     | 23.0 | 15.8  | 23.6 |       |       |

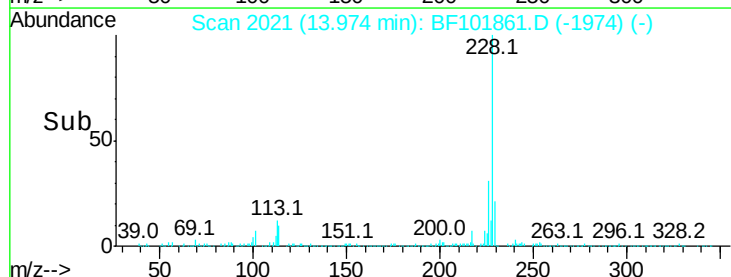
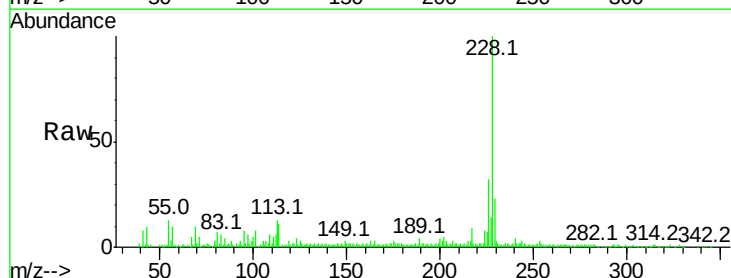
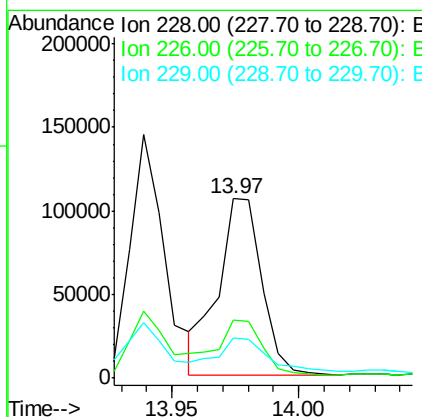
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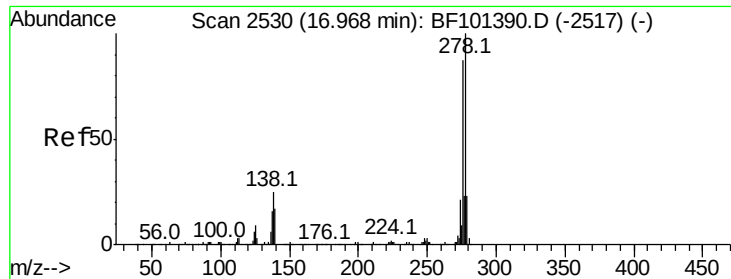
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#82  
Chrysene  
Concen: 5.457 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 228     | 100  |       |      |       |       |
| 226     | 32.2 | 25.0  | 37.6 |       |       |
| 229     | 22.7 | 16.2  | 24.4 |       |       |





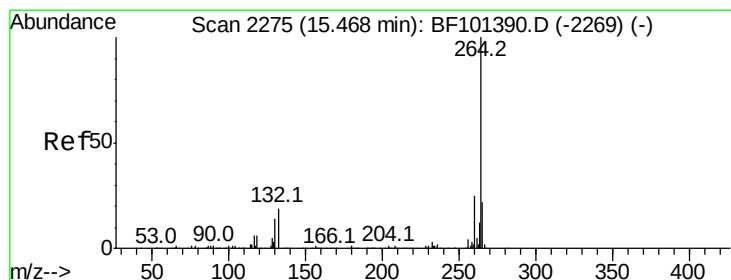
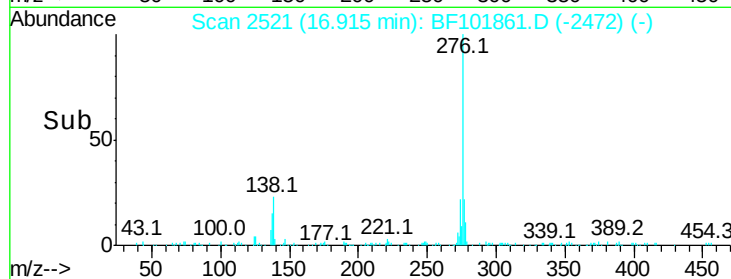
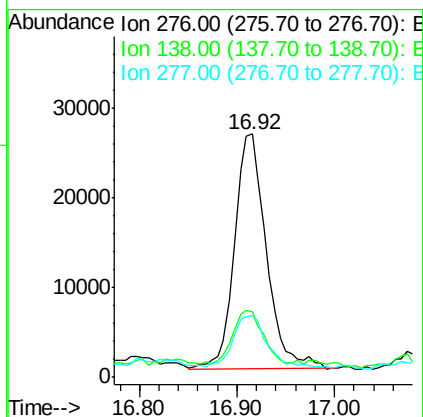
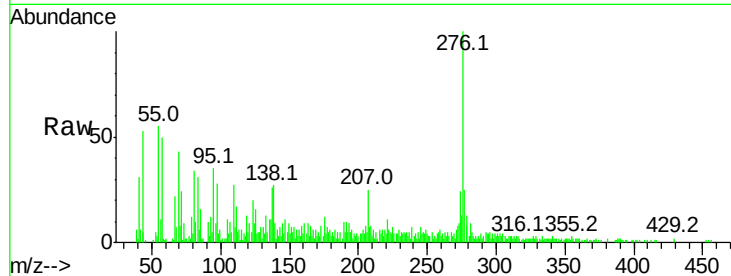
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.833 ng  
RT: 16.92 min Scan# 2521  
Delta R.T. -0.01 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-122917-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.5  | 25.0  | 37.6# |
| 277     | 24.6  | 20.1  | 30.1  |

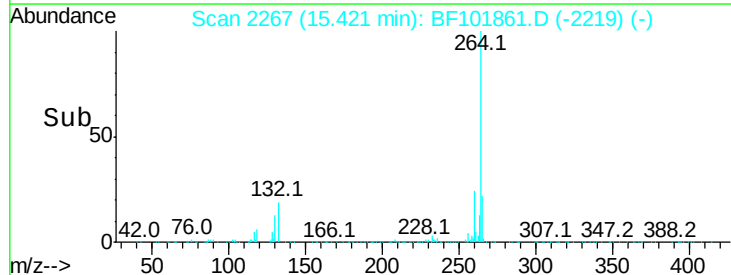
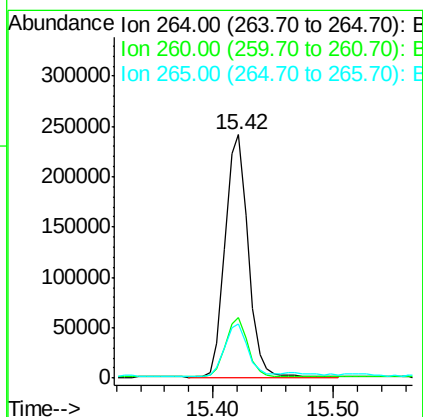
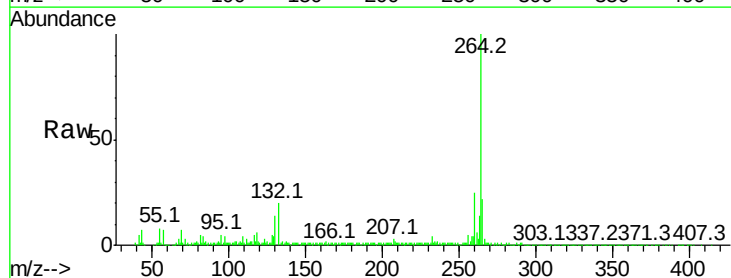
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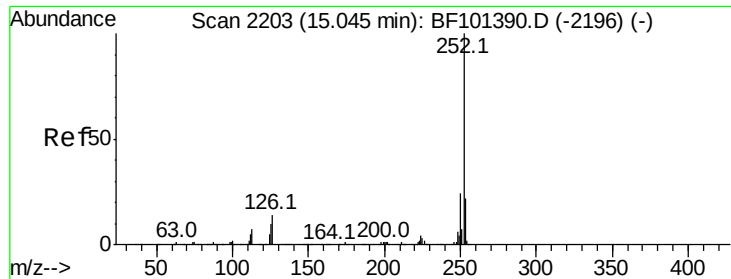
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.2  | 28.8  |
| 265     | 22.5  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 8.468 ng m

RT: 15.00 min Scan# 2195

Delta R.T. -0.02 min

Lab File: BF101861.D

Acq: 3 Jan 2018 15:50

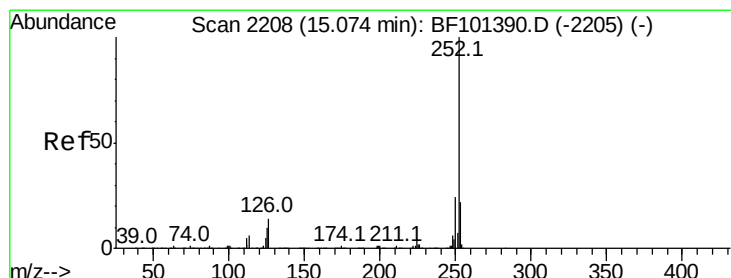
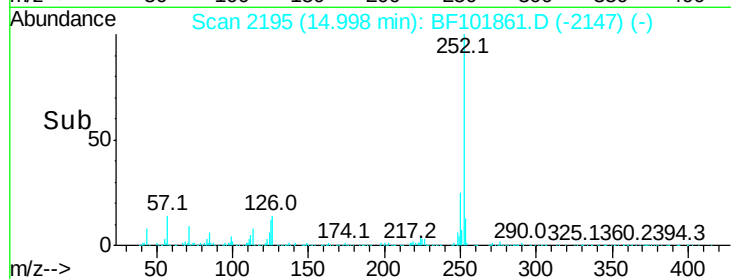
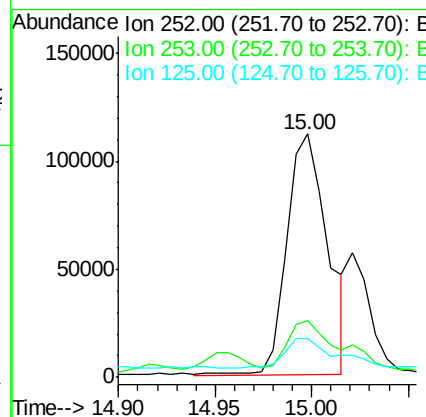
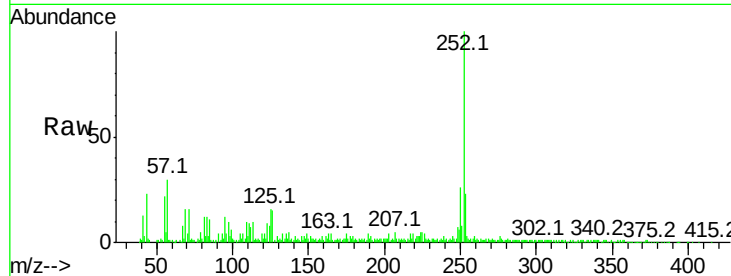
Instrument :  
BNA\_F

ClientSampleId :  
CL-01-122917-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.0  | 25.6  |
| 125     | 15.9  | 9.0   | 13.6  |

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#88

Benzo(k)fluoranthene

Concen: 2.565 ng m

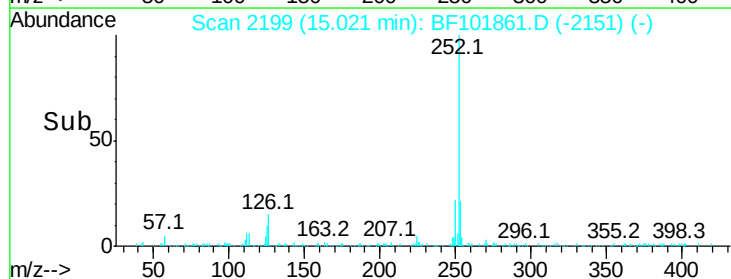
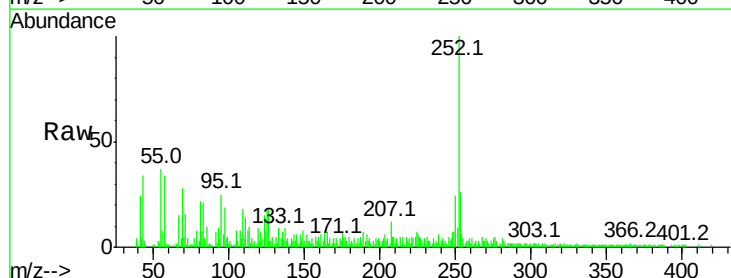
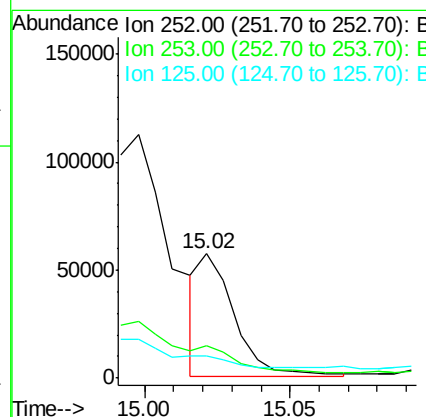
RT: 15.02 min Scan# 2199

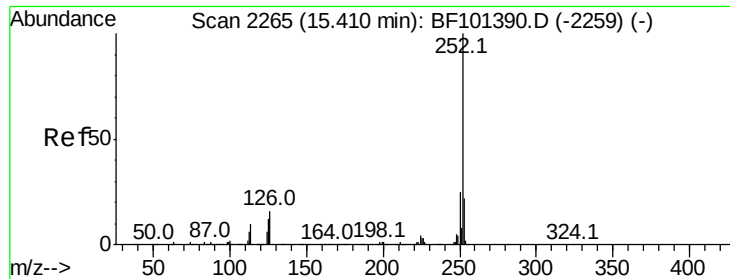
Delta R.T. -0.02 min

Lab File: BF101861.D

Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 17.9  | 26.9  |
| 125     | 18.4  | 10.2  | 15.2  |





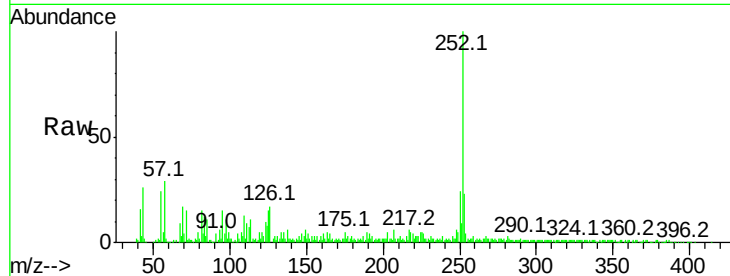
#89  
Benzo(a)pyrene  
Concen: 6.284 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. -0.02 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

Instrument :  
BNA\_F  
ClientSampled :  
CL-01-122917-D

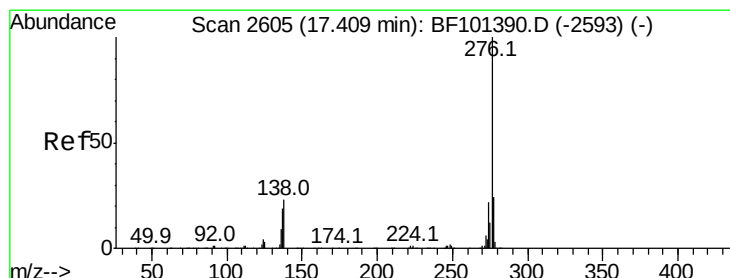
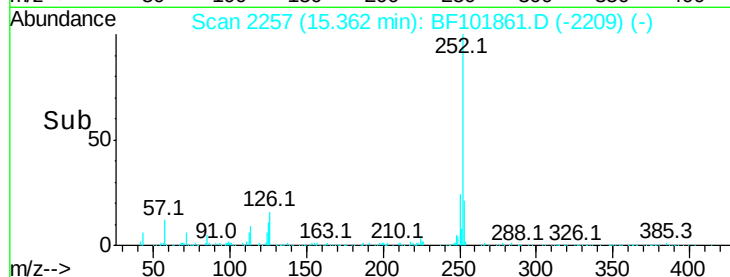
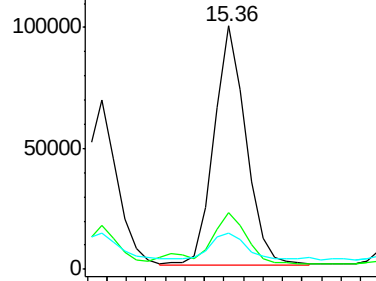
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.4  | 17.1       | 25.7  |
| 125     | 15.0  | 9.8        | 14.6  |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#91  
Benzo(g,h,i)perylene  
Concen: 3.969 ng  
RT: 17.36 min Scan# 2597  
Delta R.T. -0.01 min  
Lab File: BF101861.D  
Acq: 3 Jan 2018 15:50

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 26.9  | 17.9       | 26.9  |
| 138     | 27.9  | 21.8       | 32.8  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

