

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062218\  
 Data File : BF106741.D  
 Acq On : 23 Jun 2018 6:27  
 Operator : JU/SJ  
 Sample : J3581-01 2X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSP-A-COMPOSITE

Manual Integrations  
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 6/25/2018 5:17:13 PM

Quant Time: Jun 25 02:18:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 22 11:34:03 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.96  | 152  | 49824    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.24  | 136  | 182169   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.00 | 164  | 78574    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.49 | 188  | 141639   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 14.14 | 240  | 149721   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.68 | 264  | 111425   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.60  | 112  | 131160   | 44.58 | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 163348   | 44.45 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 99454    | 30.34 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 39492    | 43.36 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 192422   | 32.31 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.07 | 244  | 209880   | 33.96 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 49) Dimethylphthalate       | 9.71  | 163  | 20664    | 3.506 | ng    | 99       |
| 70) Phenanthrene            | 11.51 | 178  | 23876    | 3.495 | ng    | 100      |
| 74) Fluoranthene            | 12.71 | 202  | 51323    | 6.816 | ng    | 95       |
| 77) Pyrene                  | 12.94 | 202  | 52970    | 5.365 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.13 | 228  | 29456m   | 3.228 | ng    |          |
| 82) Chrysene                | 14.17 | 228  | 26167m   | 3.117 | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.22 | 252  | 32872m   | 4.749 | ng    |          |
| 89) Benzo(a)pyrene          | 15.61 | 252  | 20134    | 3.272 | ng    | # 91     |
| 91) Benzo(g,h,i)perylene    | 17.72 | 276  | 12364    | 2.426 | ng    | 91       |

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

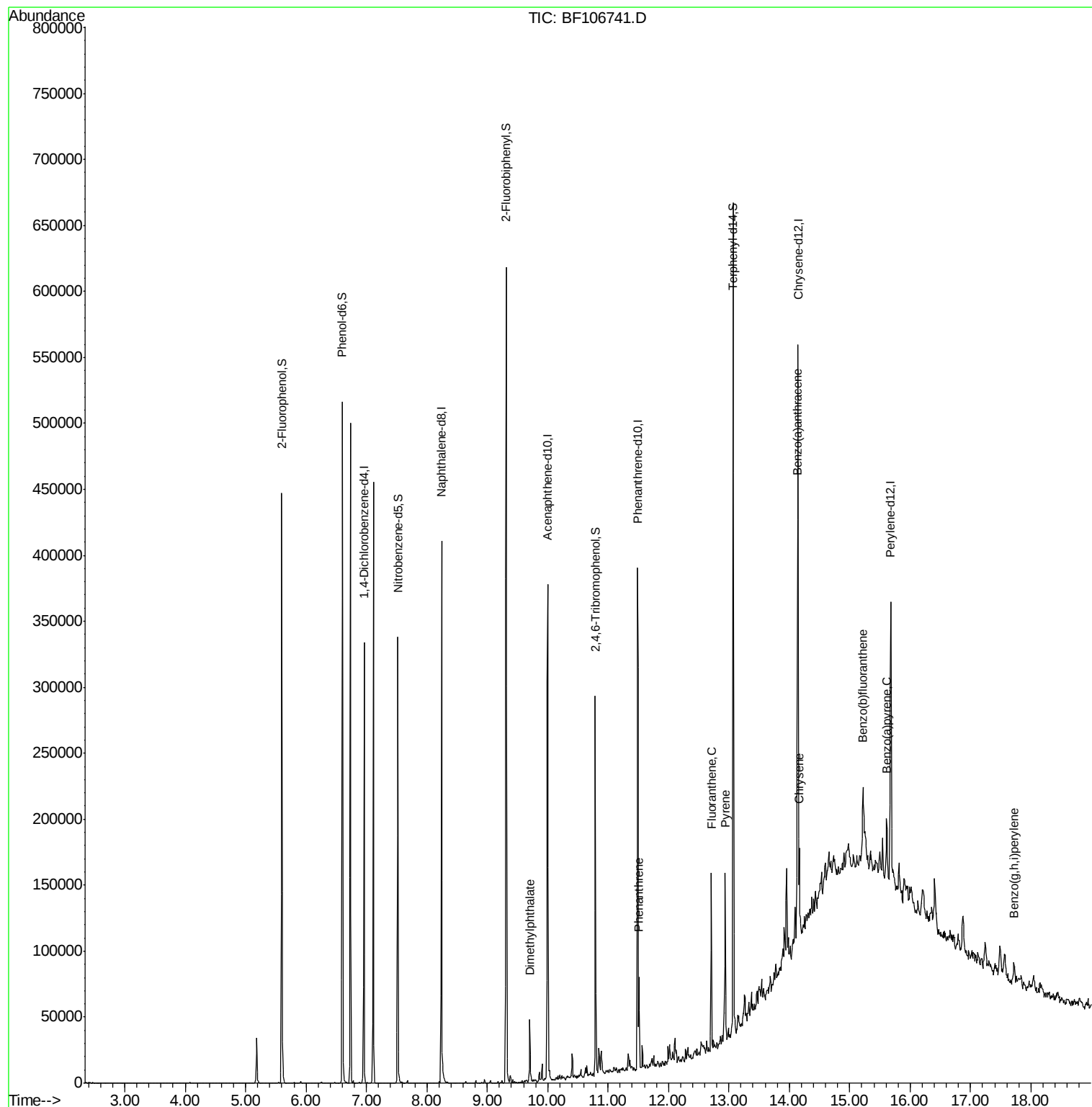
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062218\  
Data File : BF106741.D  
Acq On : 23 Jun 2018 6:27  
Operator : JU/SJ  
Sample : J3581-01 2X  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SSP-A-COMPOSITE

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Quant Time: Jun 25 02:18:10 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 22 11:34:03 2018  
Response via : Initial Calibration





#1

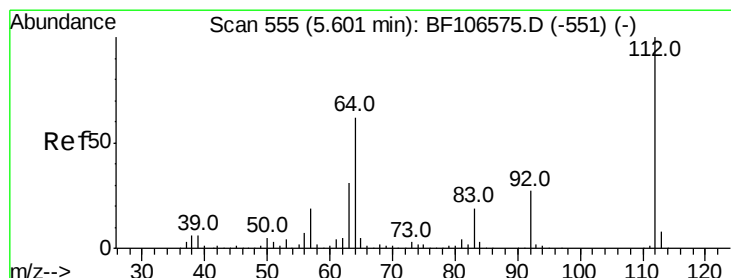
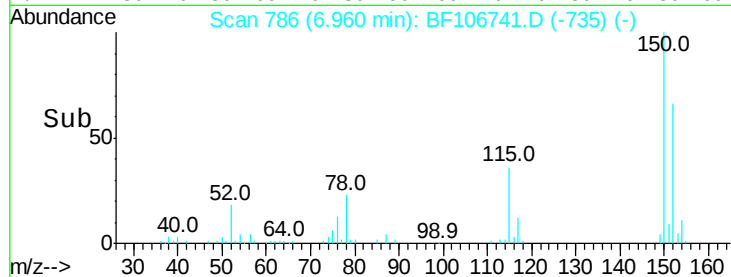
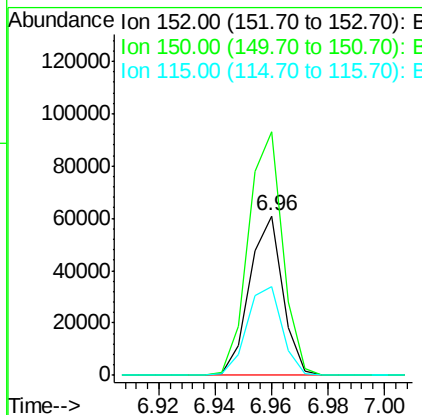
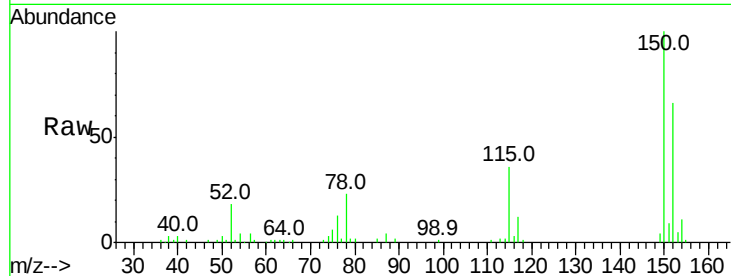
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.96 min Scan# 786  
 Delta R.T. -0.00 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSP-A-COMPOSITE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.6 | 124.6 | 186.8 |
| 115     | 55.5  | 50.1  | 75.1  |

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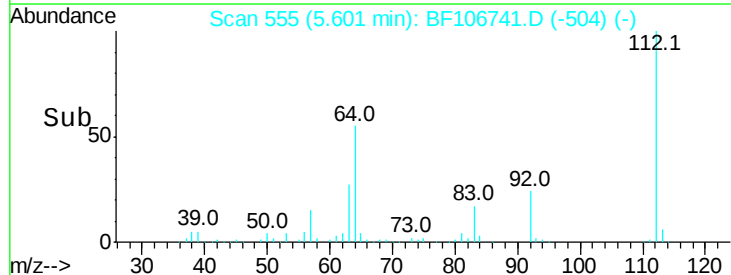
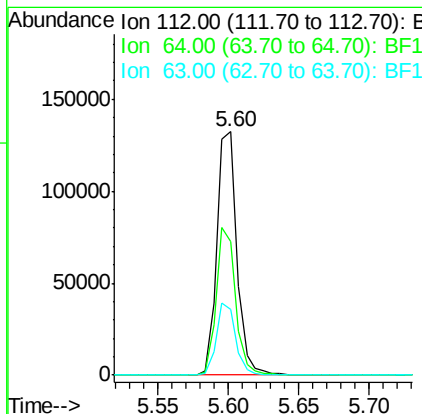
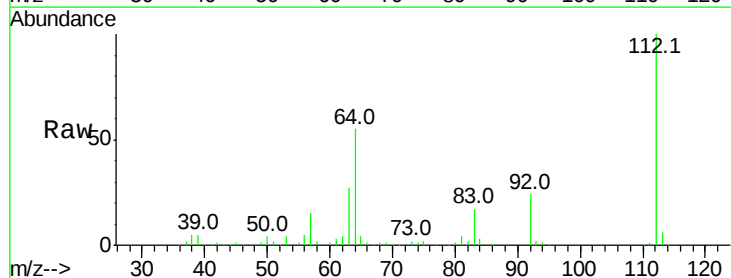
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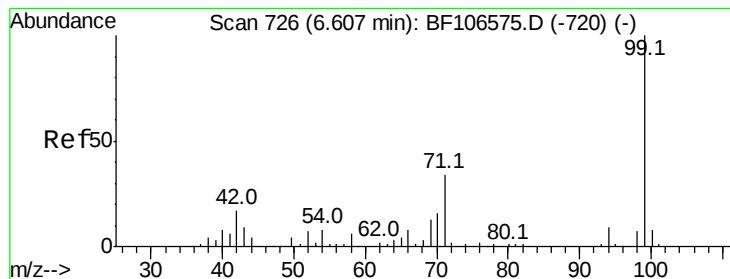


#5

2-Fluorophenol  
 Concen: 44.576 ng  
 RT: 5.60 min Scan# 555  
 Delta R.T. -0.00 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.6  | 47.9  | 71.9  |
| 63      | 27.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 44.455 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

Instrument :

BNA\_F

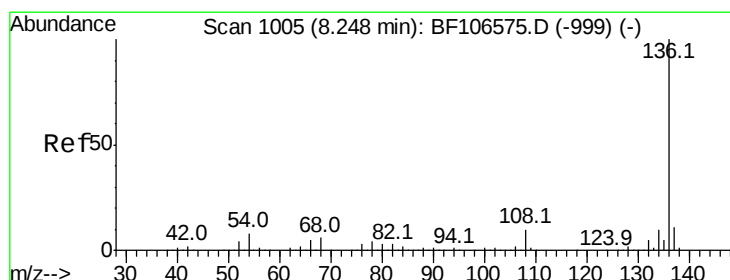
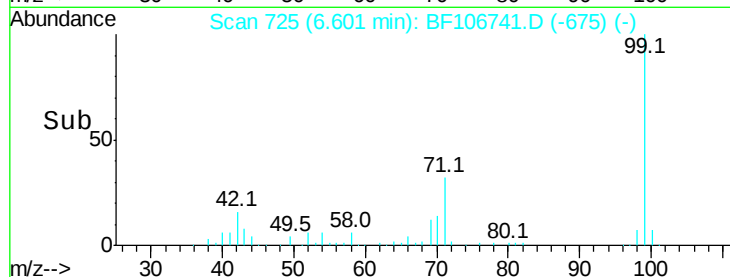
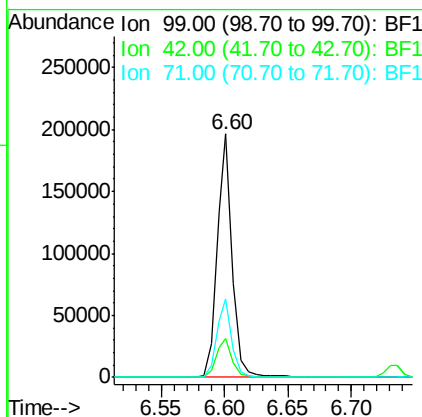
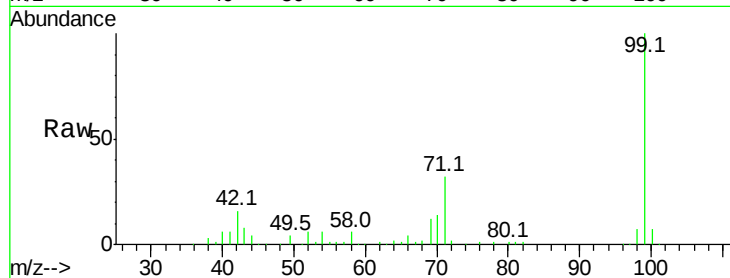
ClientSampleId :

SSP-A-COMPOSITE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 163348 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.7  | 14.5  | 21.7   |
| 71        | 32.3  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

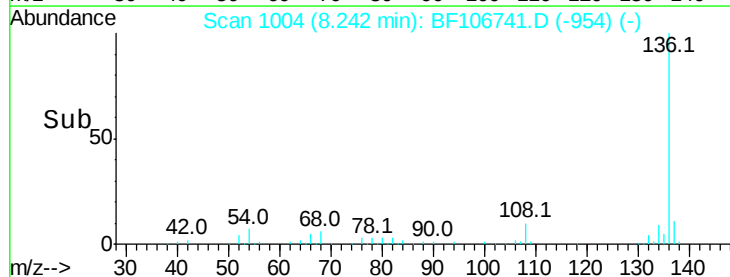
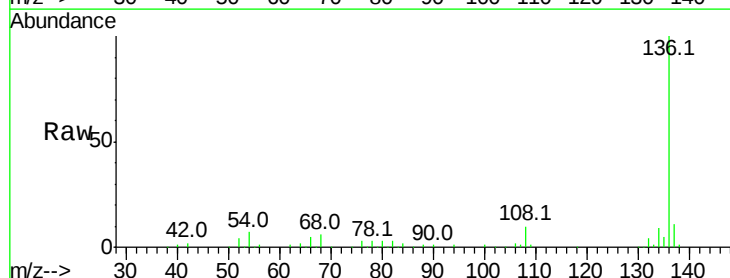
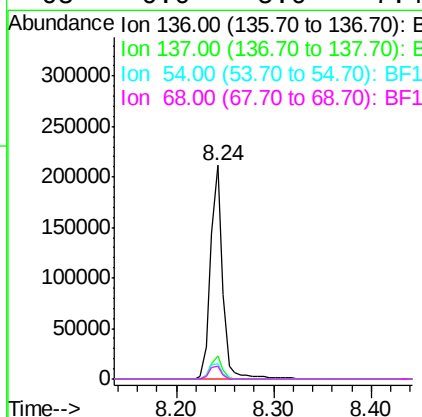
RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 182169 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.9   | 13.3   |
| 54        | 7.3   | 6.6   | 9.8    |
| 68        | 6.0   | 5.0   | 7.4    |





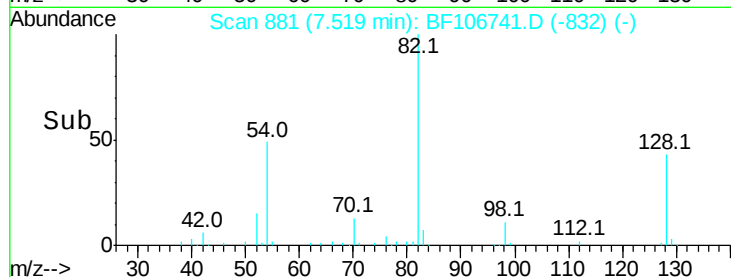
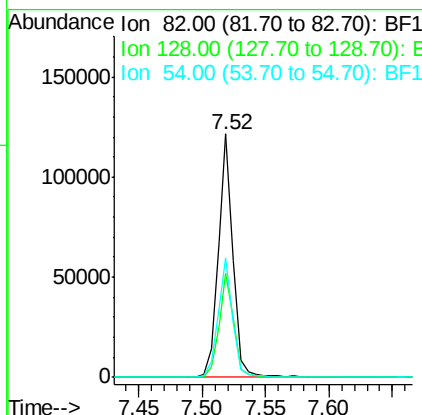
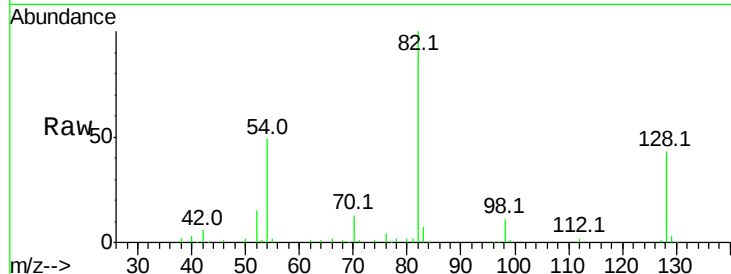
#23  
 Nitrobenzene-d5  
 Concen: 30.340 ng  
 RT: 7.52 min Scan# 881  
 Delta R.T. -0.01 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSP-A-COMPOSITE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.8  | 36.1  | 54.1  |
| 54      | 49.1  | 41.4  | 62.2  |

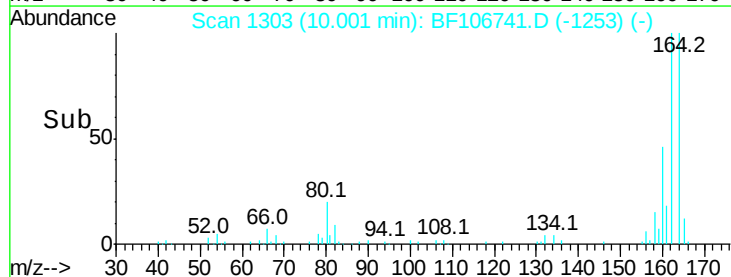
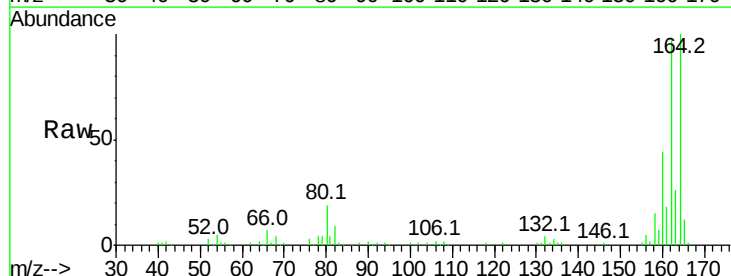
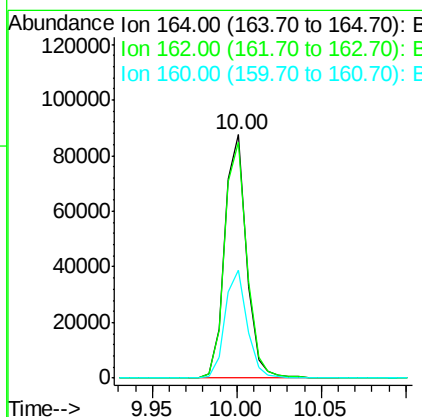
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.00 min Scan# 1303  
 Delta R.T. -0.01 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.9  | 86.1  | 129.1 |
| 160     | 44.3  | 38.3  | 57.5  |





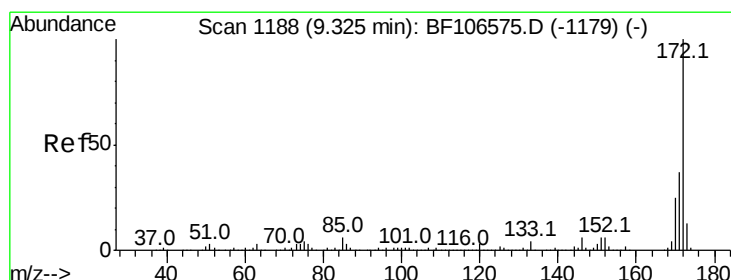
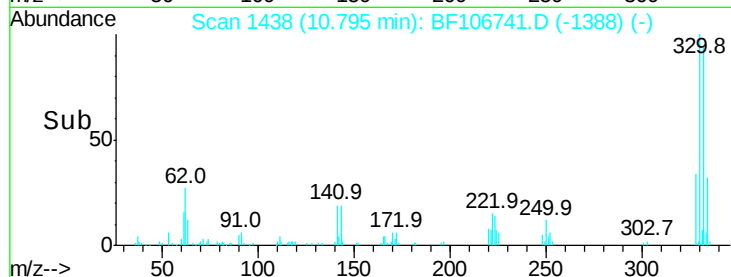
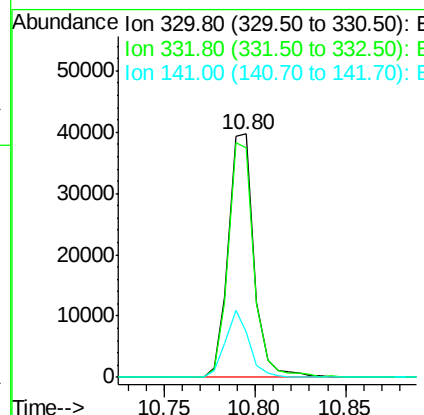
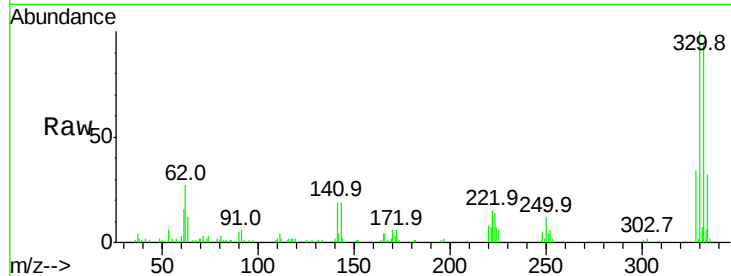
#41  
 2,4,6-Tribromophenol  
 Concen: 43.365 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSP-A-COMPOSITE

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.5  | 77.0 | 115.6 |       |
| 141     | 24.8  | 29.9 | 44.9  |       |

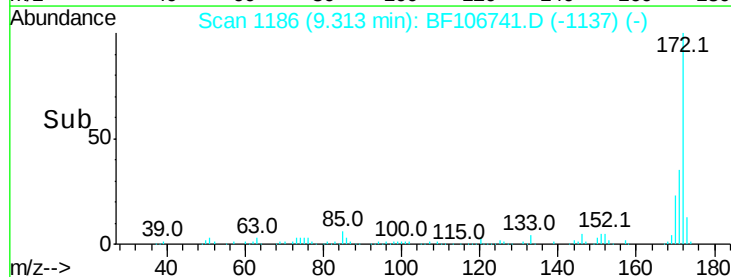
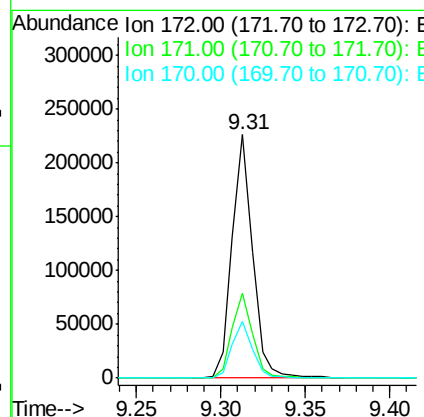
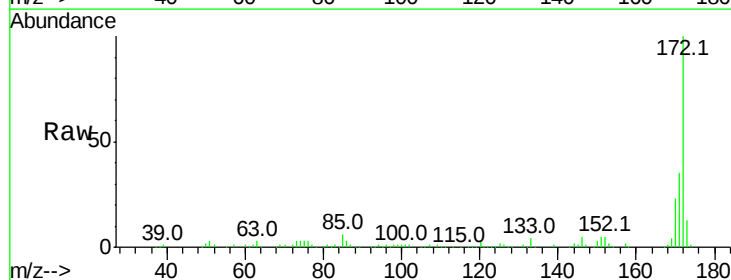
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#44  
 2-Fluorobiphenyl  
 Concen: 32.307 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 34.7  | 29.7 | 44.5  |       |
| 170     | 23.2  | 19.6 | 29.4  |       |





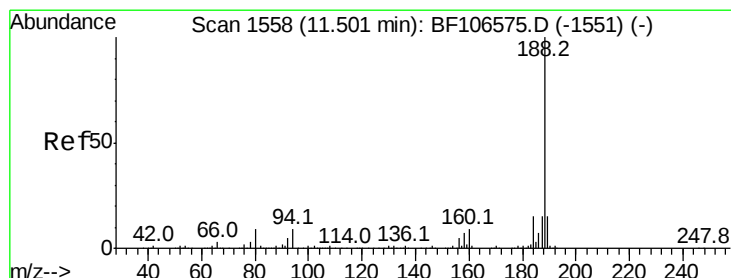
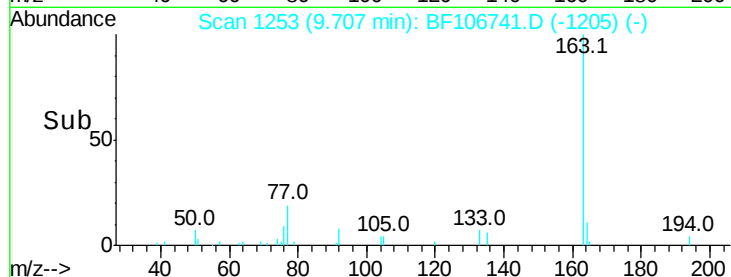
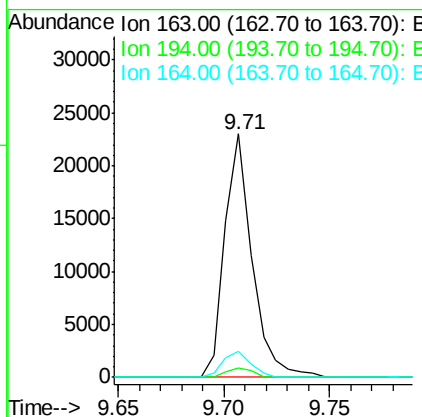
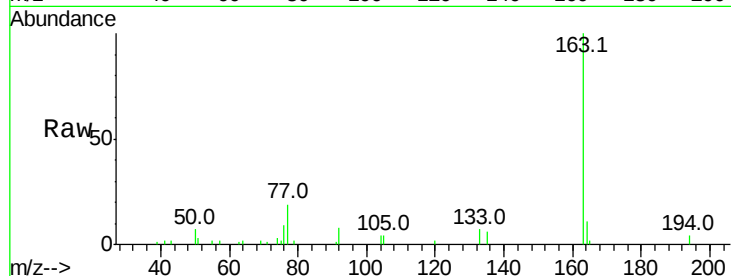
#49  
Dimethylphthalate  
Concen: 3.506 ng  
RT: 9.71 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF106741.D  
Acq: 23 Jun 2018 6:27

Instrument :  
BNA\_F  
ClientSampleId :  
SSP-A-COMPOSITE

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 20664 |       |       |
| 194     | 3.8   |       | 2.7   | 4.1   |
| 164     | 10.5  |       | 8.2   | 12.2  |

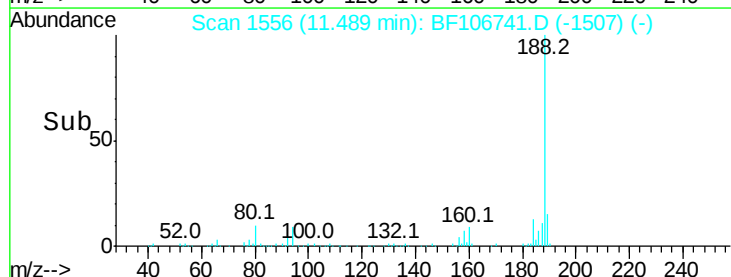
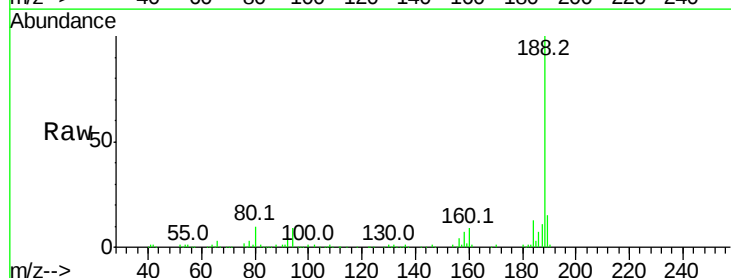
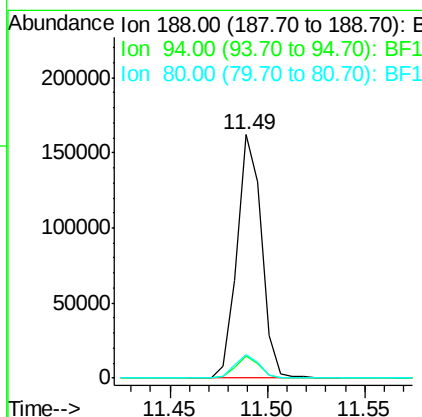
Manual Integrations  
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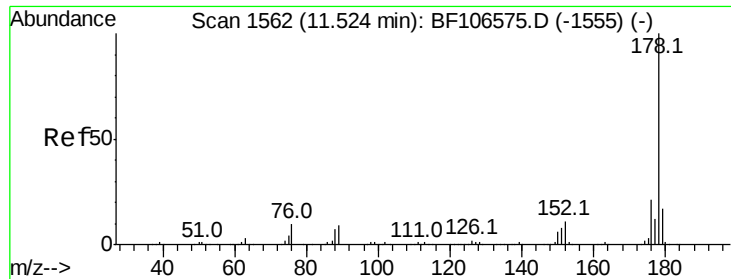
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF106741.D  
Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 141639 |       |       |
| 94      | 9.2   |        | 8.5   | 12.7  |
| 80      | 9.9   |        | 9.2   | 13.8  |





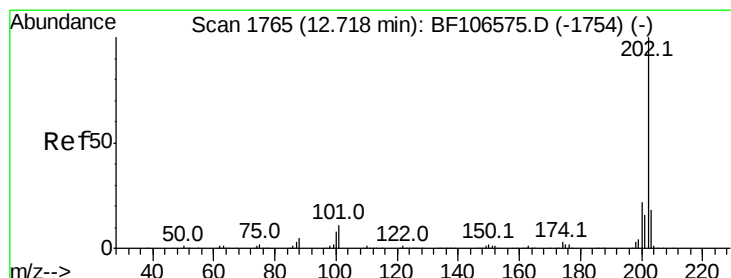
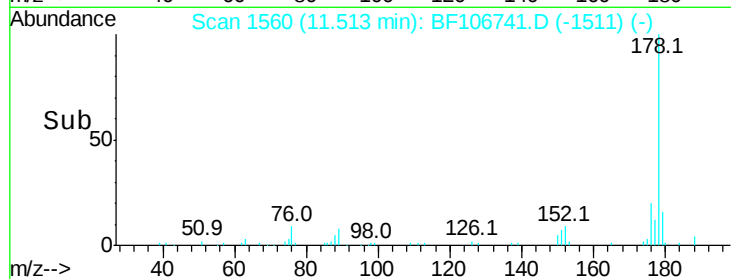
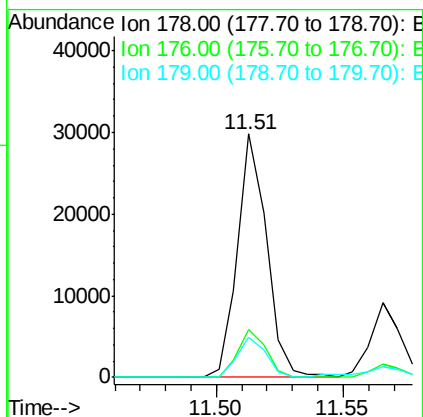
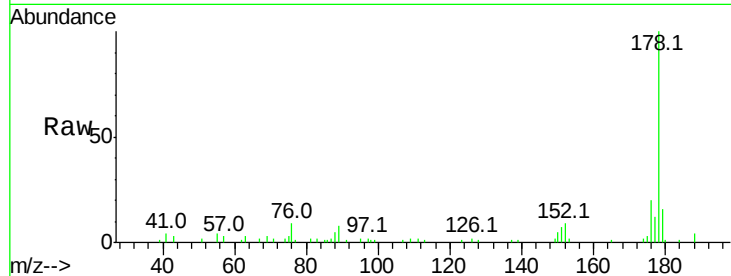
#70  
Phenanthrene  
Concen: 3.495 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF106741.D  
Acq: 23 Jun 2018 6:27

Instrument :  
BNA\_F  
ClientSampleId :  
SSP-A-COMPOSITE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.8  | 23.8  |
| 179     | 16.4  | 13.0  | 19.6  |

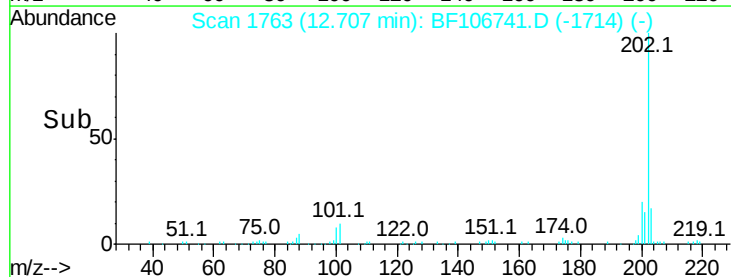
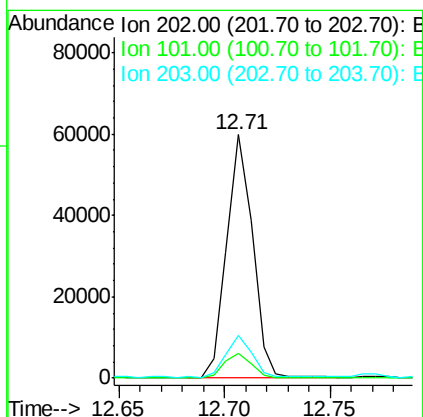
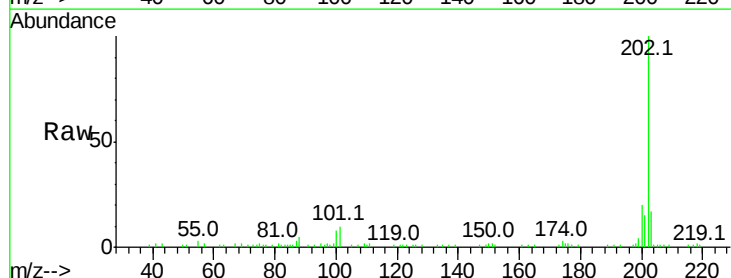
Manual Integrations  
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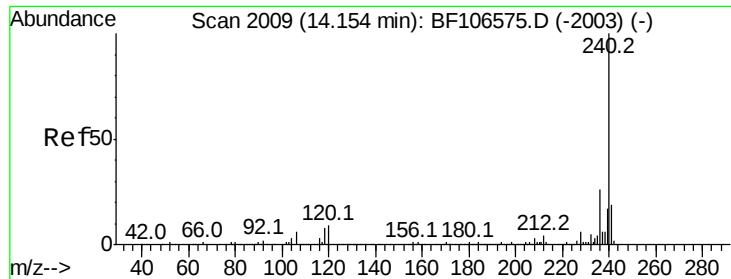
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#74  
Fluoranthene  
Concen: 6.816 ng  
RT: 12.71 min Scan# 1763  
Delta R.T. -0.01 min  
Lab File: BF106741.D  
Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 0.0   | 34.1  |
| 203     | 17.5  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

Instrument :

BNA\_F

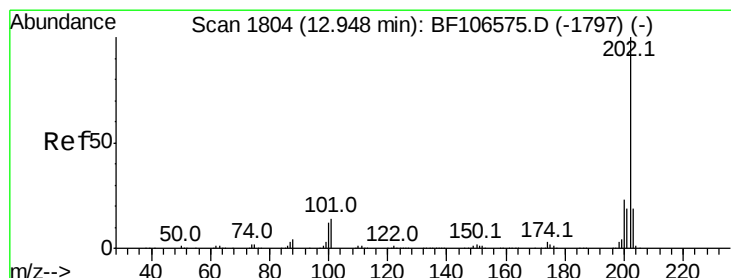
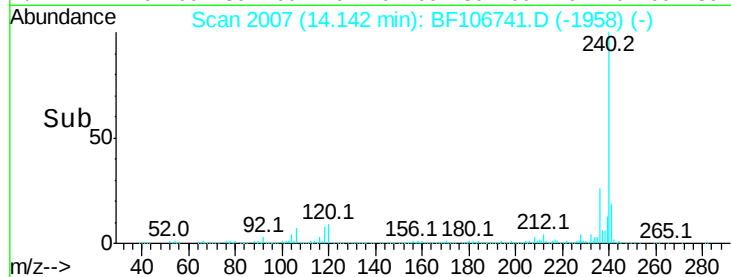
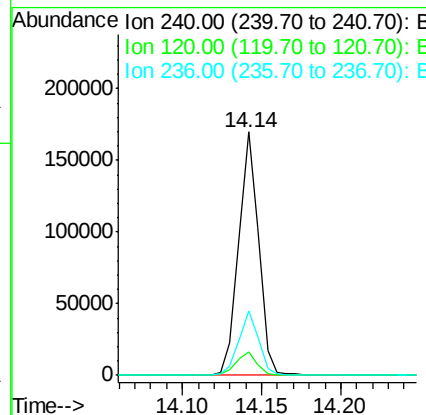
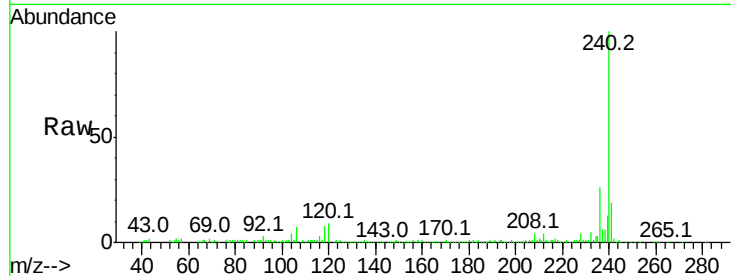
ClientSampleId :

SSP-A-COMPOSITE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 149721 |       |       |
| 120     | 9.5   | 9.5    | 14.3  |       |
| 236     | 26.3  | 20.7   | 31.1  |       |

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#77

Pyrene

Concen: 5.365 ng

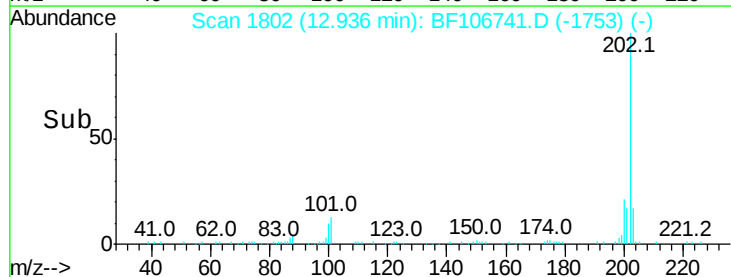
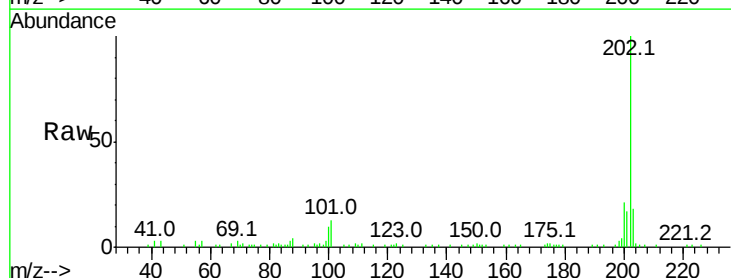
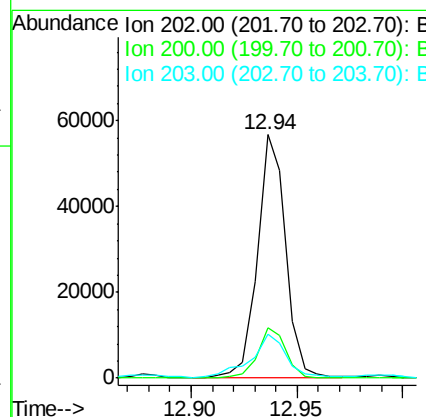
RT: 12.94 min Scan# 1802

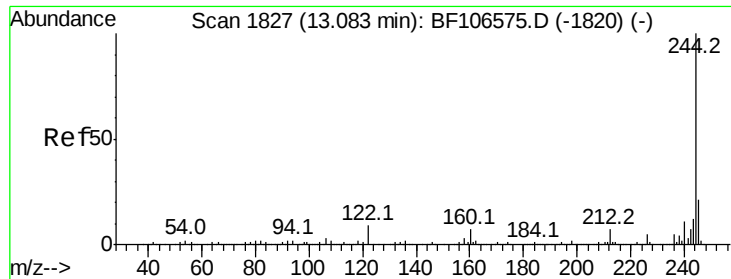
Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 52970 |       |       |
| 200     | 20.7  | 17.4  | 26.2  |       |
| 203     | 18.1  | 14.3  | 21.5  |       |





#78

Terphenyl-d14

Concen: 33.956 ng

RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

Instrument :

BNA\_F

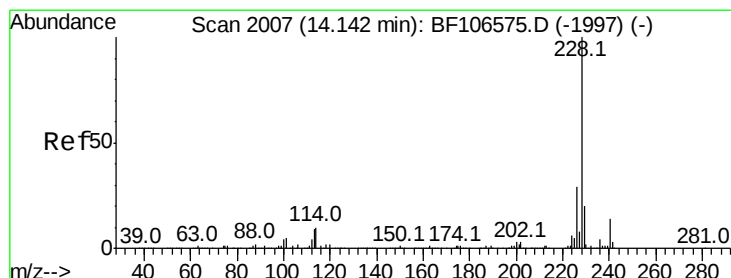
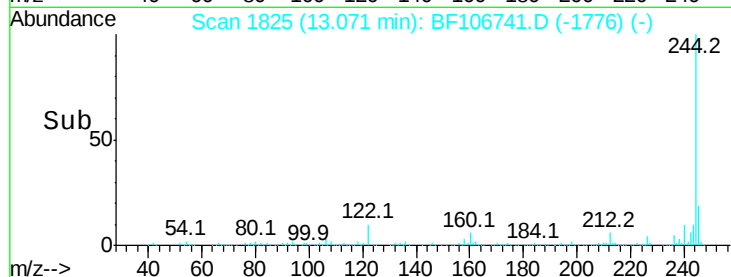
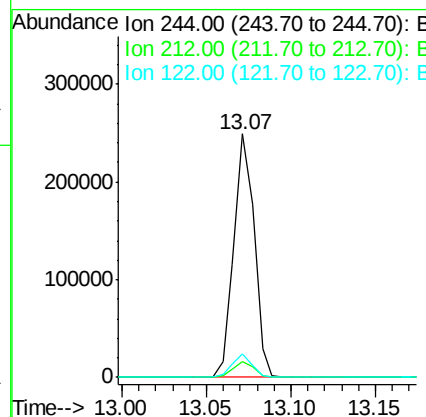
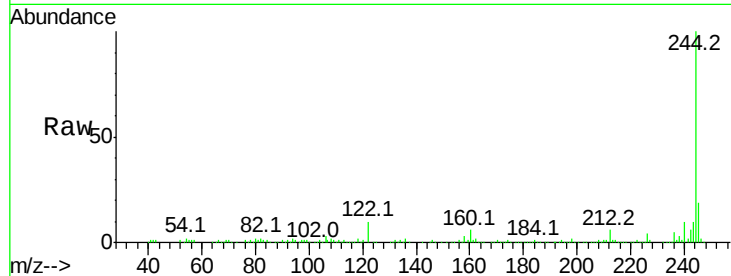
ClientSampleId :

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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.4   | 8.0   |
| 122     | 9.5   | 11.0  | 16.4  |

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#80

Benzo(a)anthracene

Concen: 3.228 ng m

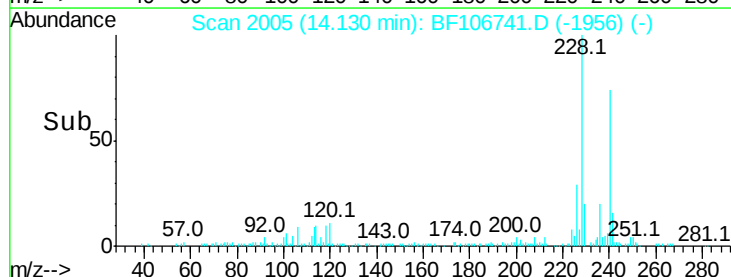
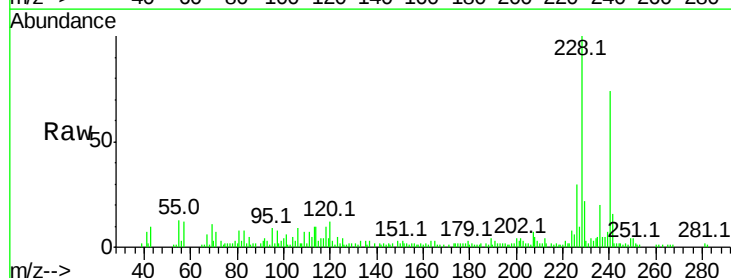
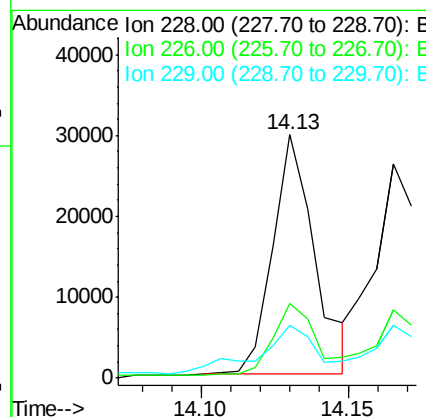
RT: 14.13 min Scan# 2005

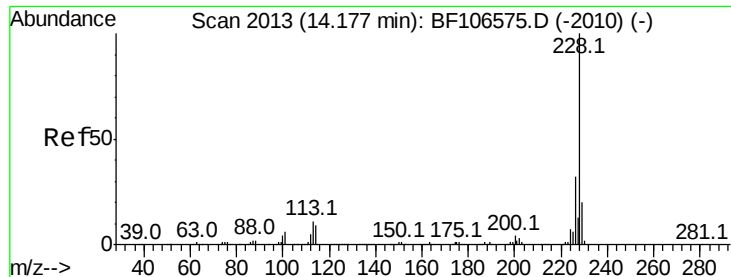
Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 22.6  | 33.8  |
| 229     | 21.7  | 15.8  | 23.6  |





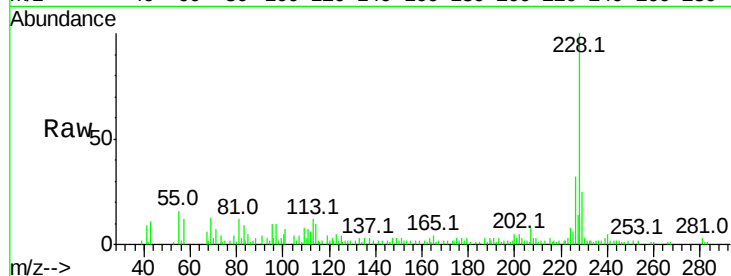
#82  
 Chrysene  
 Concen: 3.117 ng/mL  
 RT: 14.17 min Scan# 2011  
 Delta R.T. -0.02 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSP-A-COMPOSITE

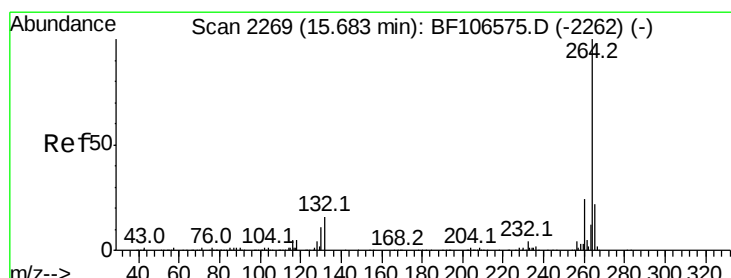
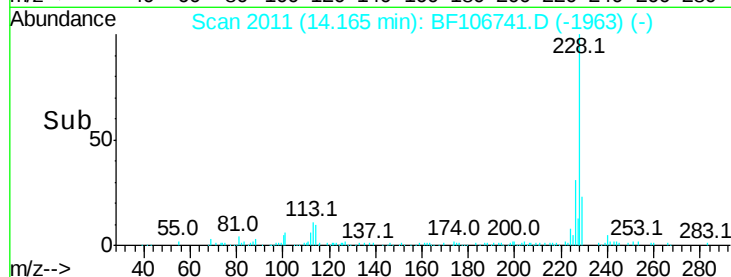
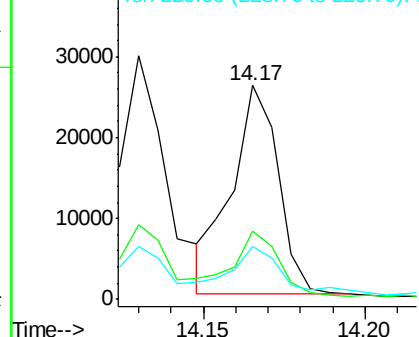
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 25.0  | 37.6  |
| 229     | 24.9  | 16.2  | 24.4  |

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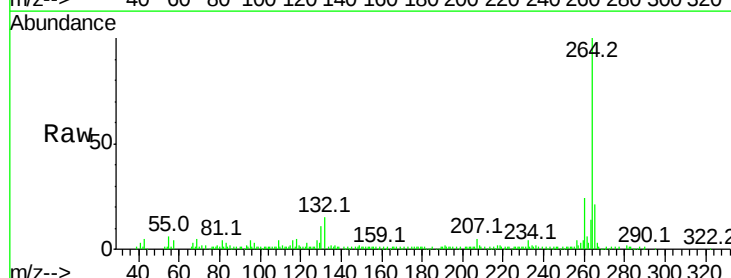


Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E

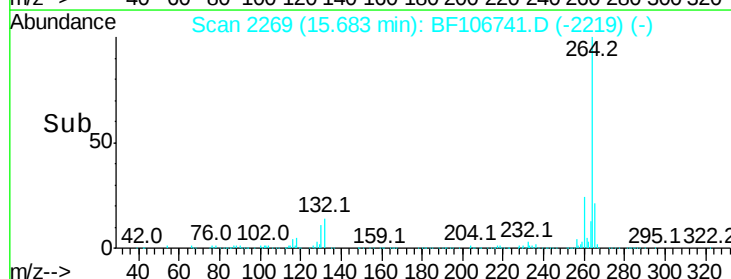
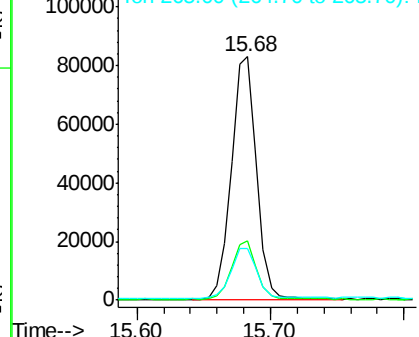


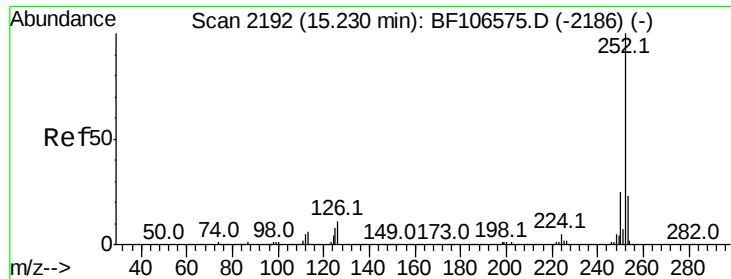
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.68 min Scan# 2269  
 Delta R.T. -0.01 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.2  | 28.8  |
| 265     | 21.2  | 17.5  | 26.3  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.749 ng

RT: 15.22 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

Instrument :

BNA\_F

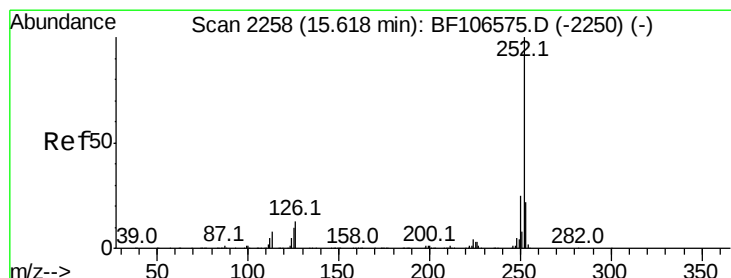
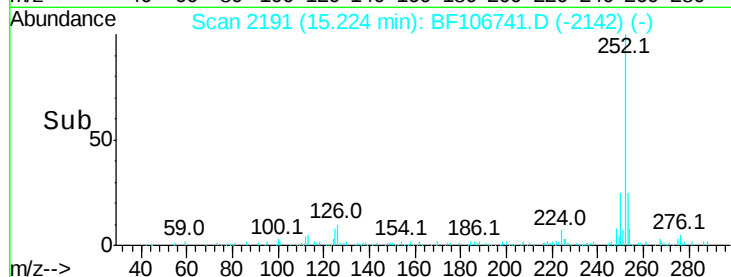
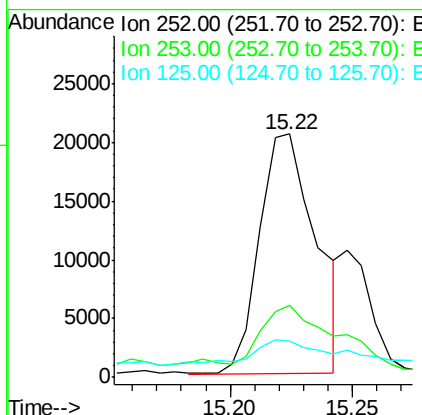
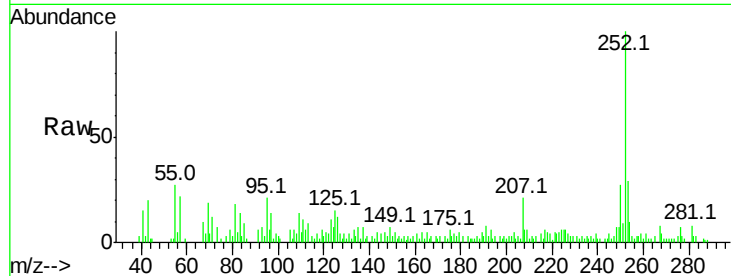
ClientSampleId :

SSP-A-COMPOSITE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 32872 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.5  | 17.0  | 25.6# |
| 125       | 14.7  | 9.0   | 13.6# |

Manual Integrations  
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#89

Benzo(a)pyrene

Concen: 3.272 ng

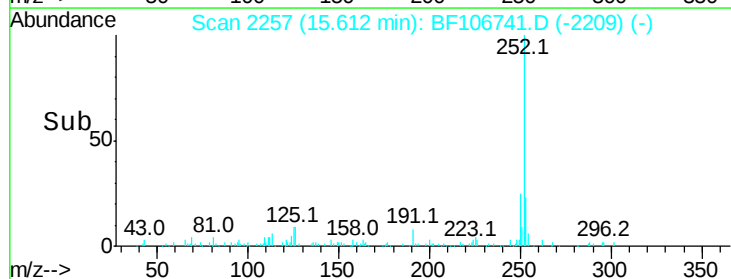
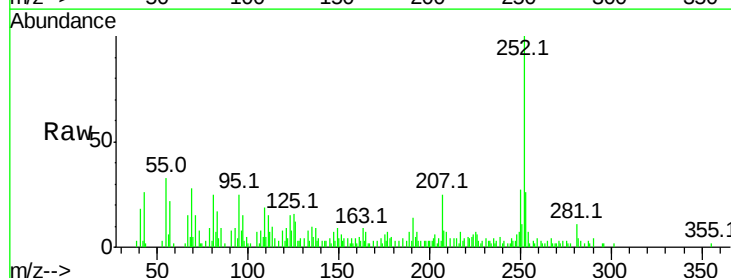
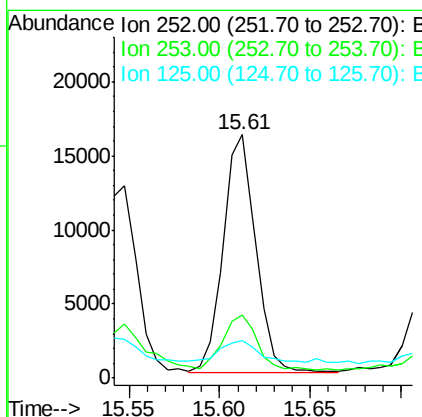
RT: 15.61 min Scan# 2257

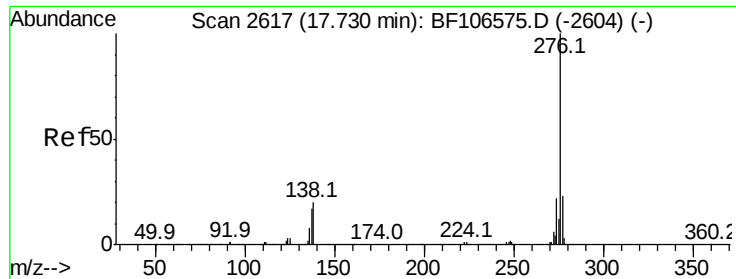
Delta R.T. -0.02 min

Lab File: BF106741.D

Acq: 23 Jun 2018 6:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 20134 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.8  | 17.1  | 25.7# |
| 125       | 15.5  | 9.8   | 14.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.426 ng  
 RT: 17.72 min Scan# 2616  
 Delta R.T. -0.02 min  
 Lab File: BF106741.D  
 Acq: 23 Jun 2018 6:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSP-A-COMPOSITE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 12364 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.1  | 17.9  | 26.9  |
| 138       | 22.4  | 21.8  | 32.8  |

Manual Integrations  
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