

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061316\  
 Data File : BF088000.D  
 Acq On : 14 Jun 2016 10:41  
 Operator : UM/SJ  
 Sample : H3380-03DL 25X  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T5-B1(0-12)CDL

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Quant Time: Jun 14 14:26:38 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 14:10:49 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 73645    | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8          | 8.08  | 136  | 301865   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10        | 9.84  | 164  | 138392   | 20.00 | ng    | 0.00      |
| 63) Phenanthrene-d10        | 11.31 | 188  | 205957   | 20.00 | ng    | 0.00      |
| 75) Chrysene-d12            | 13.95 | 240  | 155506   | 20.00 | ng    | 0.00      |
| 86) Perylene-d12            | 15.36 | 264  | 141659   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 5.38  | 112  | 24344    | 5.65  | ng    | 0.00      |
| 7) Phenol-d6                | 6.42  | 99   | 34801    | 6.67  | ng    | -0.01     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 16138    | 3.12  | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 4584     | 3.14  | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 38332    | -1.27 | ng    | 0.00      |
| 78) Terphenyl-d14           | 12.90 | 244  | 25968    | 3.80  | ng    | 0.00      |
| Target Compounds            |       |      |          |       |       |           |
| 31) Naphthalene             | 8.10  | 128  | 442635   | 29.63 | ng    | Qvalue 99 |
| 37) 2-Methylnaphthalene     | 8.80  | 142  | 145842   | 14.81 | ng    | 99        |
| 51) Acenaphthene            | 9.87  | 154  | 182423   | 20.53 | ng    | 98        |
| 54) Dibenzofuran            | 10.04 | 168  | 171936   | 14.05 | ng    | 99        |
| 57) Fluorene                | 10.39 | 166  | 158848   | 16.11 | ng    | 99        |
| 70) Phenanthrene            | 11.35 | 178  | 575643   | 53.26 | ng    | 98        |
| 71) Anthracene              | 11.39 | 178  | 120702   | 11.07 | ng    | 97        |
| 72) Carbazole               | 11.55 | 167  | 43163    | 4.23  | ng    | # 97      |
| 74) Fluoranthene            | 12.53 | 202  | 286937   | 25.16 | ng    | 98        |
| 77) Pyrene                  | 12.75 | 202  | 210357   | 18.23 | ng    | 99        |
| 80) Benzo(a)anthracene      | 13.94 | 228  | 49324m   | 5.57  | ng    |           |
| 82) Chrysene                | 13.98 | 228  | 38043m   | 4.56  | ng    |           |
| 87) Benzo(b)fluoranthene    | 14.96 | 252  | 26472m   | 2.68  | ng    |           |
| 89) Benzo(a)pyrene          | 15.30 | 252  | 16274    | 2.04  | ng    | 96        |

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

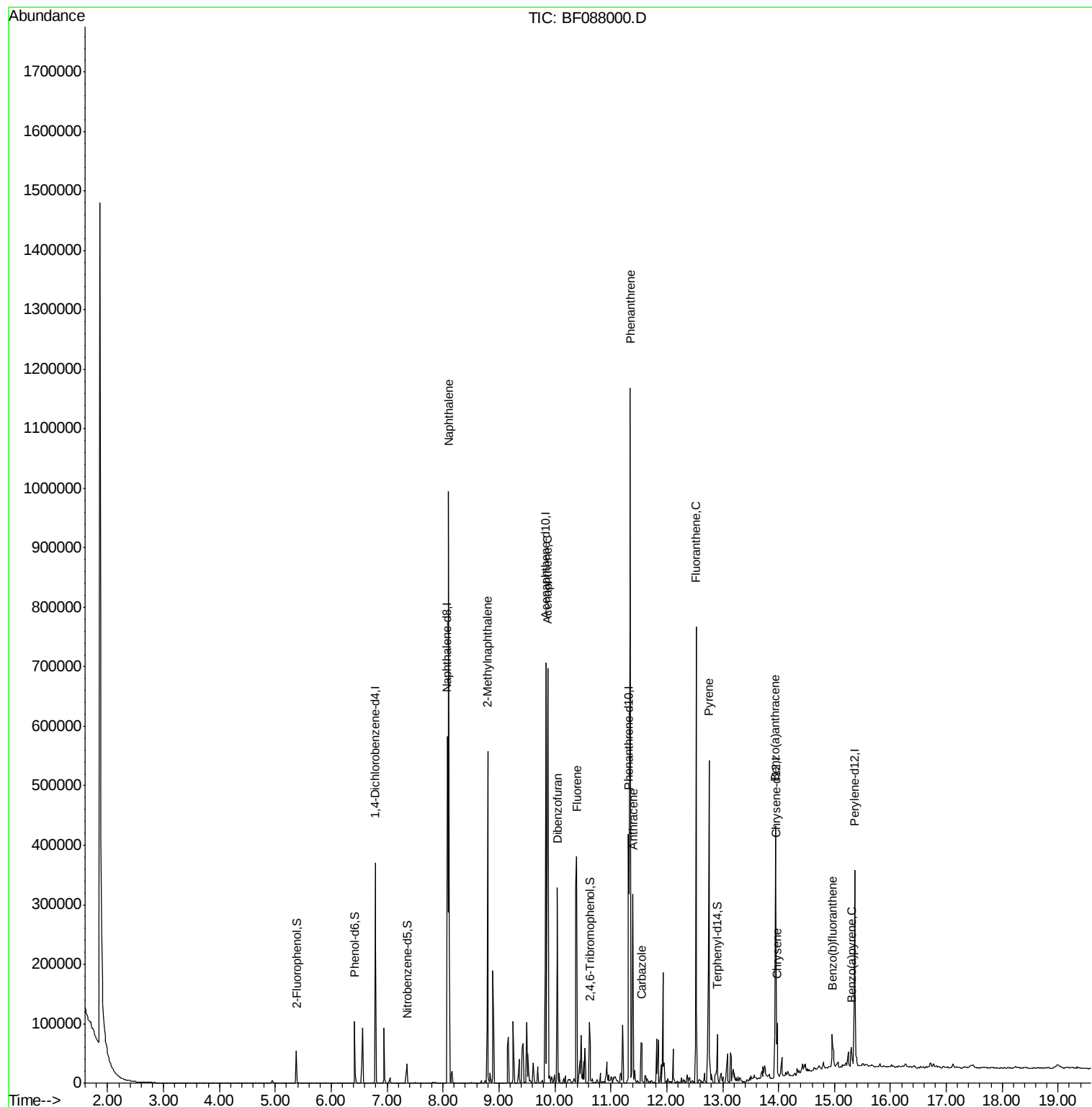
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061316\  
Data File : BF088000.D  
Acq On : 14 Jun 2016 10:41  
Operator : UM/SJ  
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Misc :  
ALS Vial : 39 Sample Multiplier: 1

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BNA\_F  
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T5-B1(0-12)CDL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 13 14:10:49 2016  
Response via : Initial Calibration

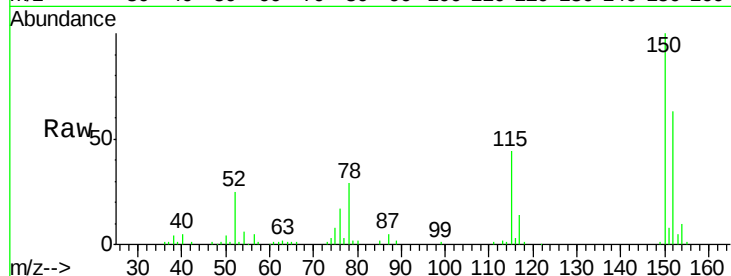




#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.79 min Scan# 455  
Delta R.T. -0.00 min  
Lab File: BF088000.D  
Acq: 14 Jun 2016 10:41

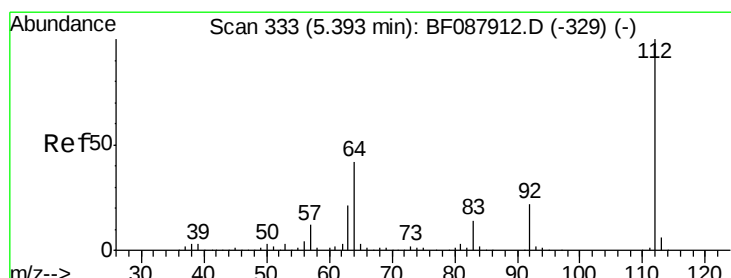
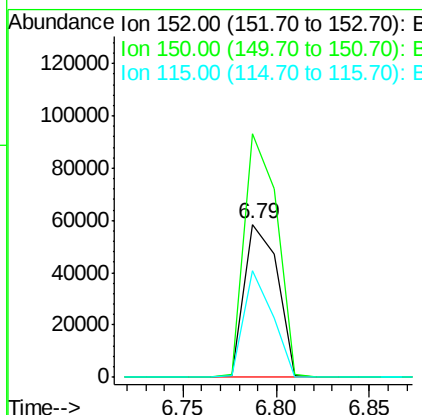
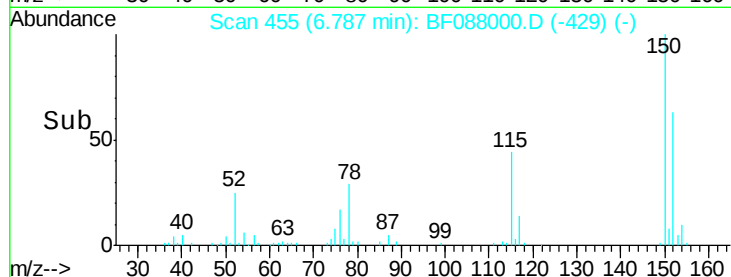
Instrument :  
BNA\_F  
ClientSampleId :  
T5-B1(0-12)CDL



| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.8 | 123.8 | 185.6 |
| 115     | 69.3  | 39.6  | 59.4  |

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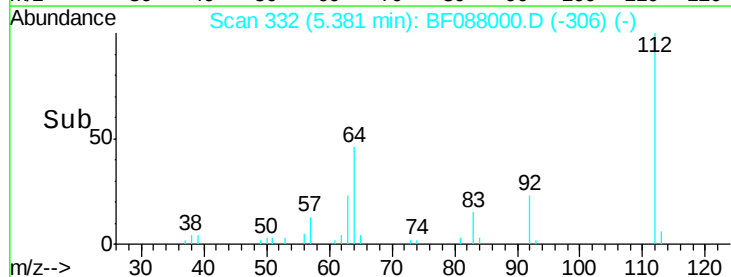
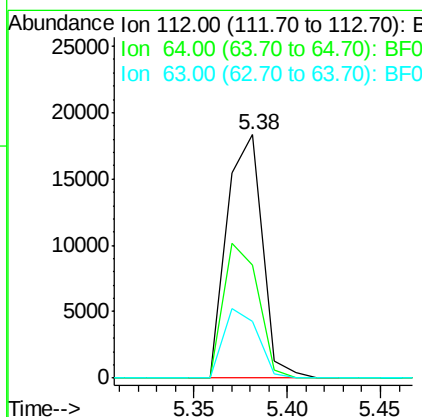
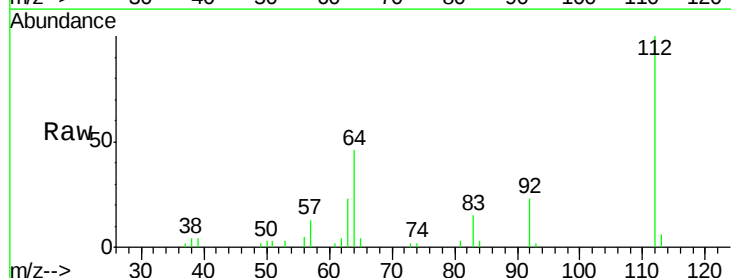
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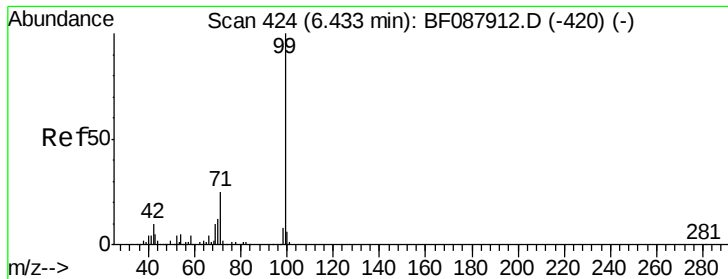


#5

2-Fluorophenol  
Concen: 5.65 ng  
RT: 5.38 min Scan# 332  
Delta R.T. -0.00 min  
Lab File: BF088000.D  
Acq: 14 Jun 2016 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 46.4  | 42.2  | 63.2  |
| 63      | 23.2  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 6.67 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

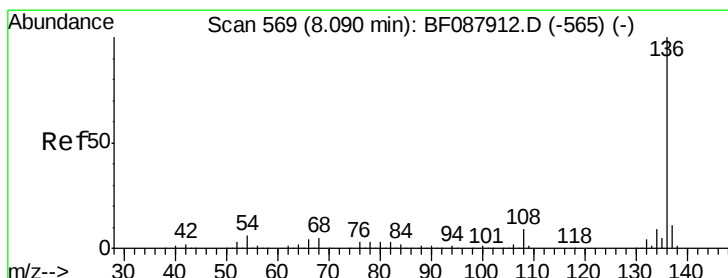
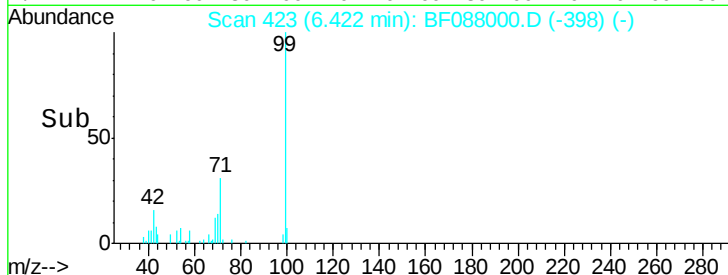
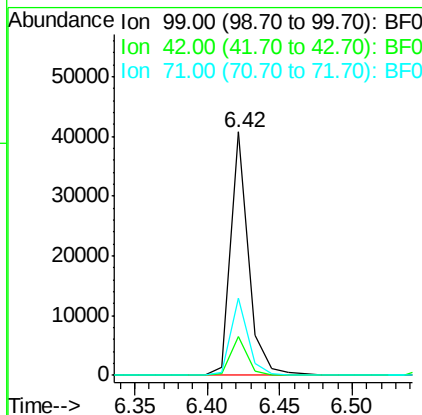
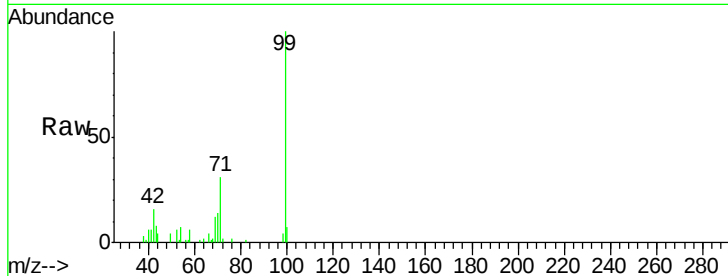
ClientSampleId :

T5-B1(0-12)CDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 34801 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 16.1  | 12.2  | 18.2  |
| 71        | 31.5  | 23.4  | 35.0  |

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#21

Naphthalene-d8

Concen: 20.00 ng

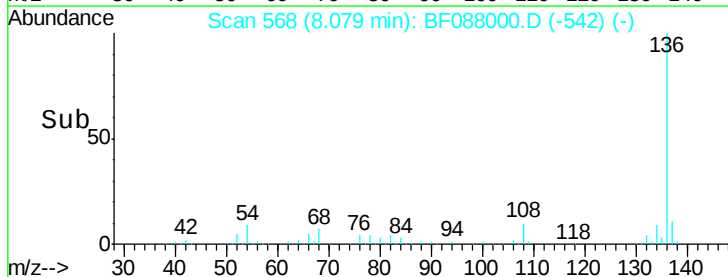
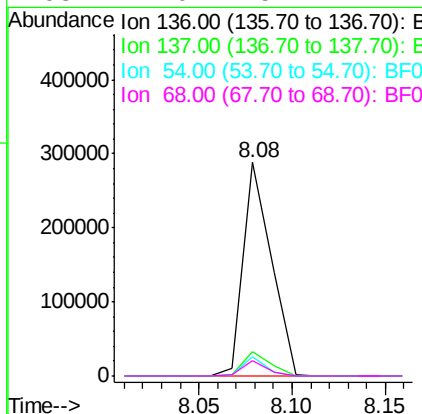
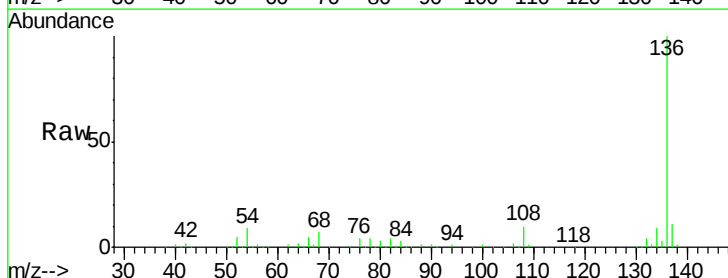
RT: 8.08 min Scan# 568

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 301865 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 9.1   | 13.7   |
| 54        | 8.8   | 6.6   | 10.0   |
| 68        | 7.0   | 5.1   | 7.7    |





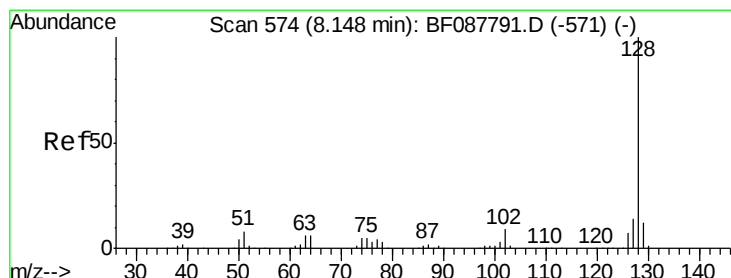
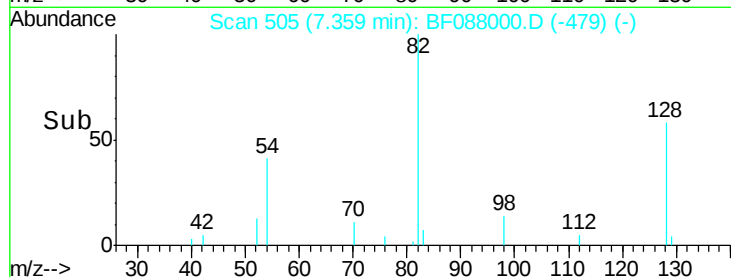
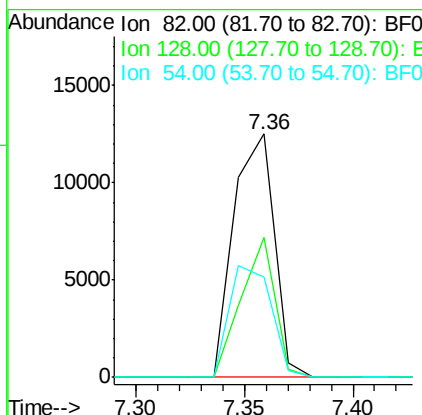
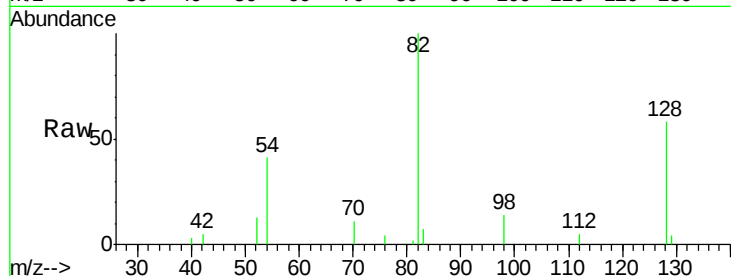
#23  
 Nitrobenzene-d5  
 Concen: 3.12 ng  
 RT: 7.36 min Scan# 505  
 Delta R.T. -0.00 min  
 Lab File: BF088000.D  
 Acq: 14 Jun 2016 10:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T5-B1(0-12)CDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 57.6  | 35.9  | 53.9# |
| 54      | 41.4  | 40.9  | 61.3  |

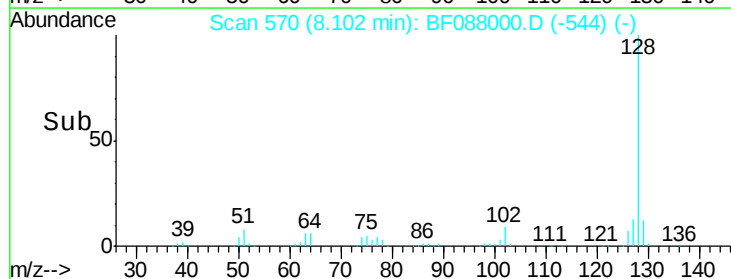
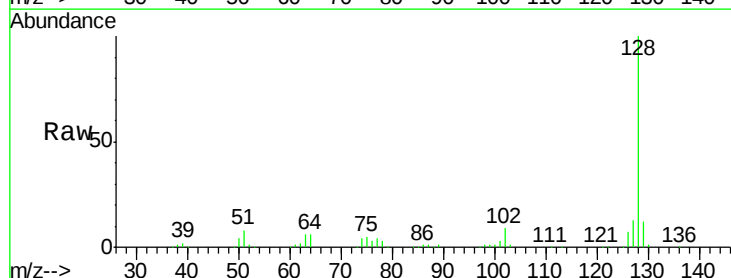
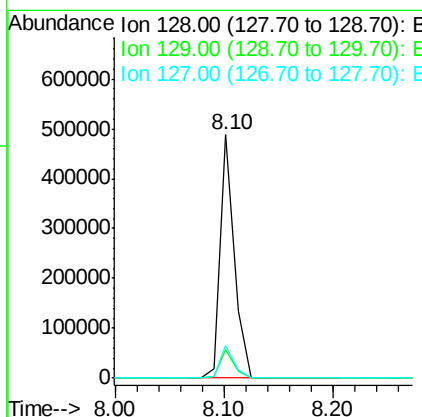
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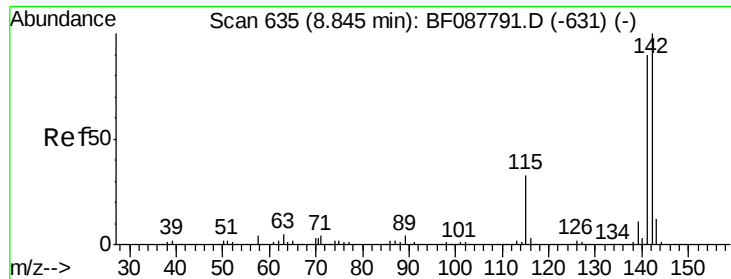
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#31  
 Naphthalene  
 Concen: 29.63 ng  
 RT: 8.10 min Scan# 570  
 Delta R.T. -0.00 min  
 Lab File: BF088000.D  
 Acq: 14 Jun 2016 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.6  | 9.4   | 14.2  |
| 127     | 13.1  | 10.9  | 16.3  |





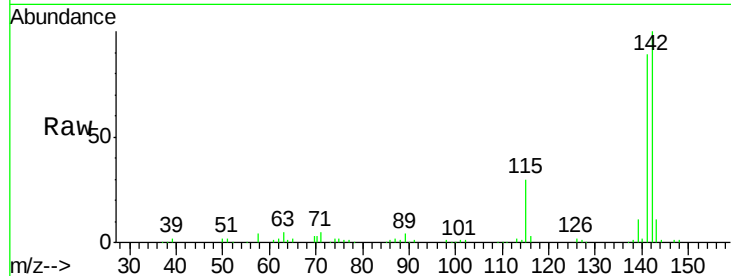
#37  
2-Methylnaphthalene  
Concen: 14.81 ng  
RT: 8.80 min Scan# 631  
Delta R.T. -0.00 min  
Lab File: BF088000.D  
Acq: 14 Jun 2016 10:41

Instrument :  
BNA\_F  
ClientSampleId :  
T5-B1(0-12)CDL

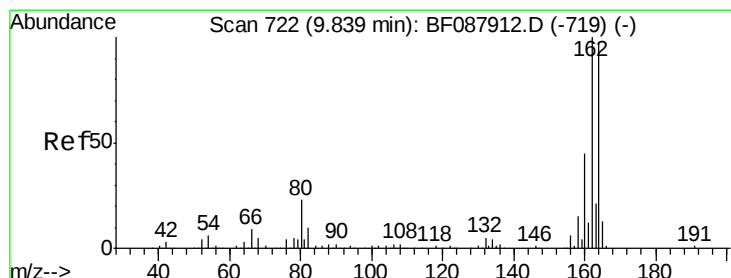
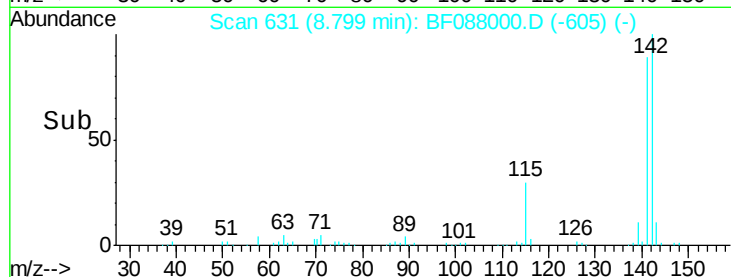
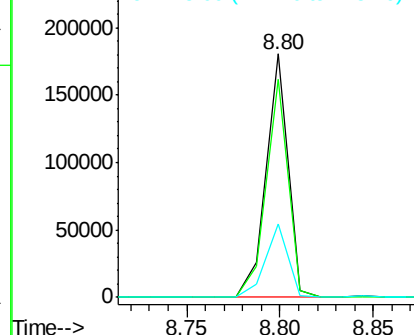
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.4  | 71.0  | 106.6 |
| 115     | 30.0  | 22.6  | 33.8  |

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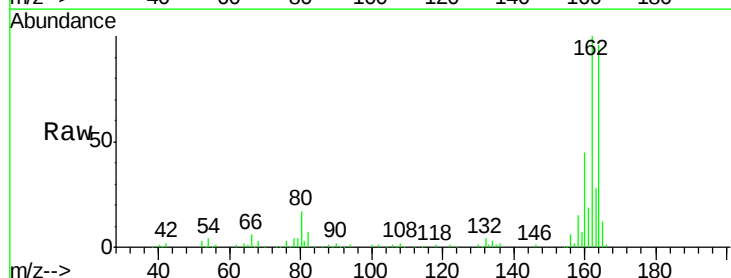


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

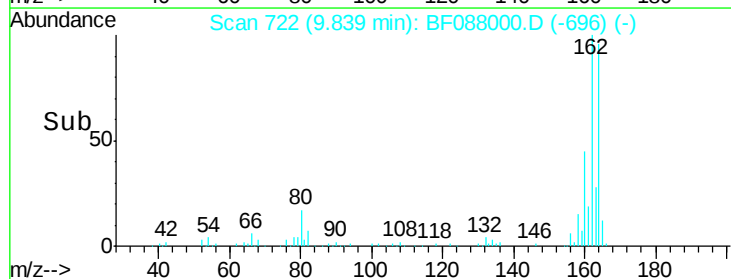
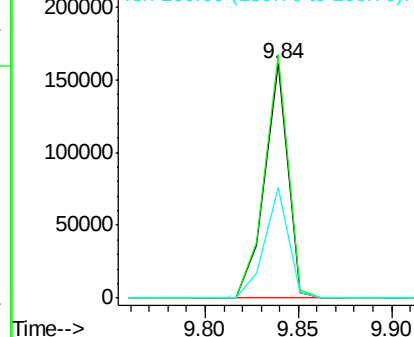


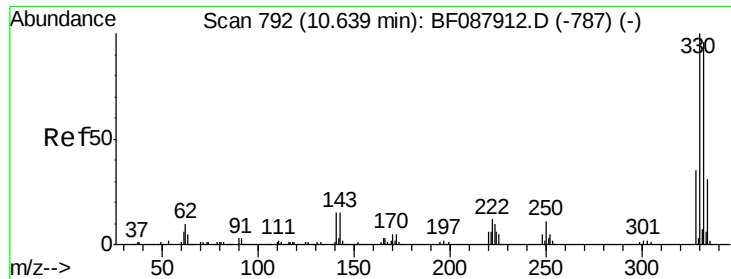
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.84 min Scan# 722  
Delta R.T. -0.00 min  
Lab File: BF088000.D  
Acq: 14 Jun 2016 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.0 | 85.4  | 128.2 |
| 160     | 47.0  | 39.5  | 59.3  |



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





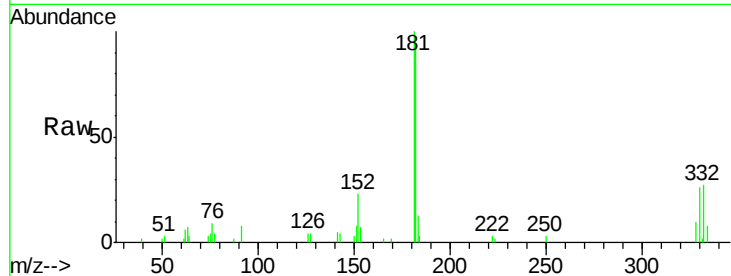
#41  
 2,4,6-Tribromophenol  
 Concen: 3.14 ng  
 RT: 10.63 min Scan# 791  
 Delta R.T. -0.00 min  
 Lab File: BF088000.D  
 Acq: 14 Jun 2016 10:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T5-B1(0-12)CDL

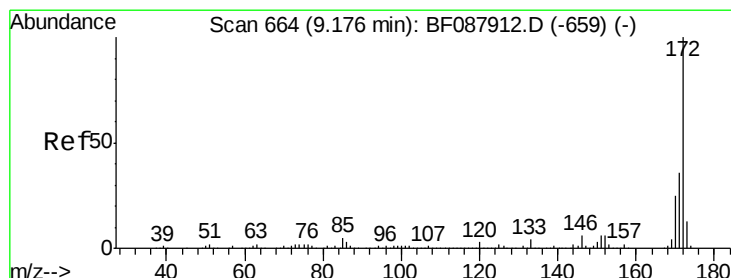
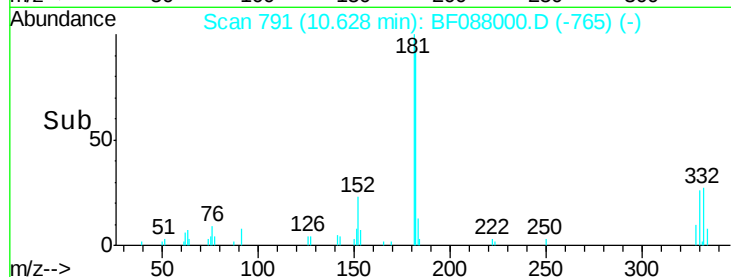
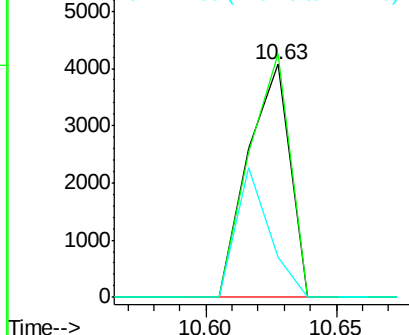
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   | 4584 |       |       |
| 332     | 101.5 | 0.0  | 0.0   | 0.0   |
| 141     | 44.6  | 0.0  | 0.0   | 0.0   |

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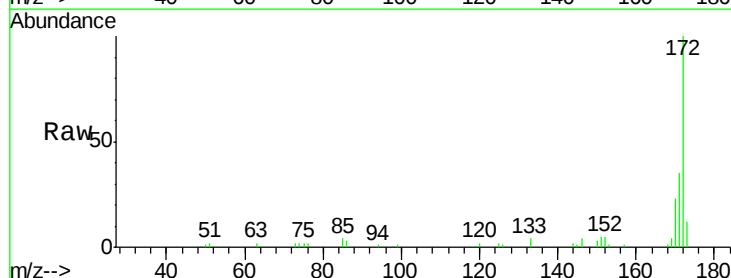


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

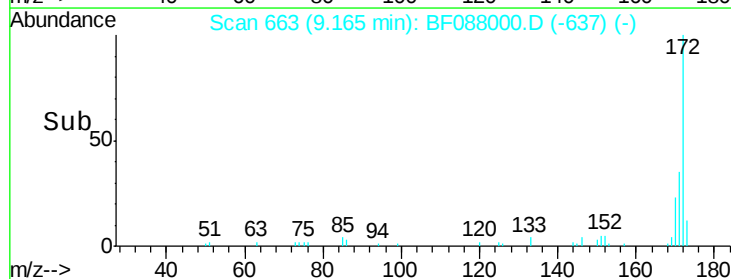
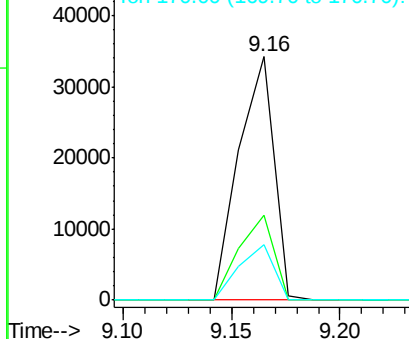


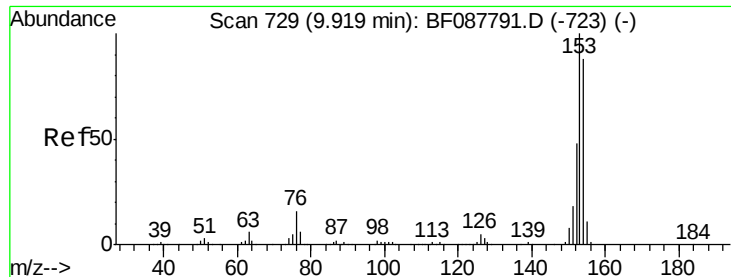
#44  
 2-Fluorobiphenyl  
 Concen: -1.27 ng  
 RT: 9.16 min Scan# 663  
 Delta R.T. -0.00 min  
 Lab File: BF088000.D  
 Acq: 14 Jun 2016 10:41

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 172     | 100   | 38332 |       |       |
| 171     | 34.7  | 28.6  | 43.0  |       |
| 170     | 22.6  | 19.2  | 28.8  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 20.53 ng

RT: 9.87 min Scan# 725

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

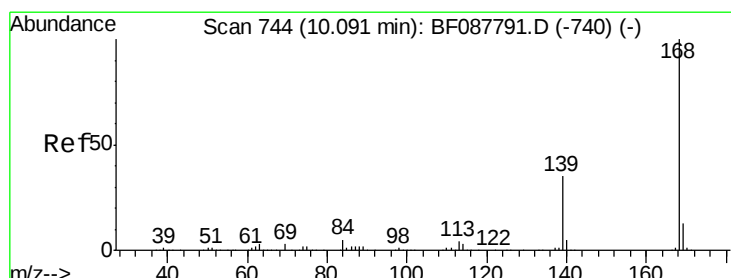
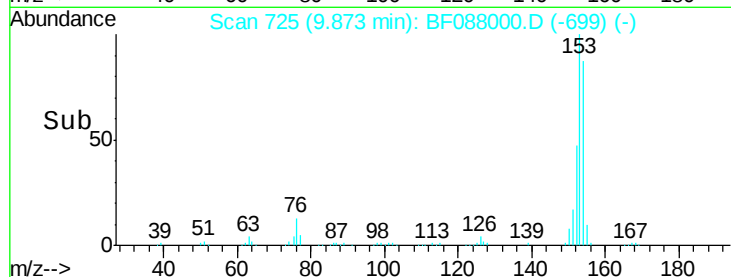
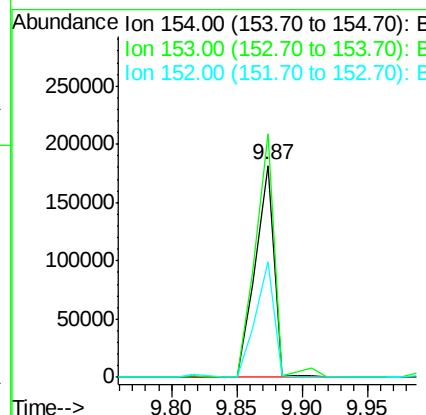
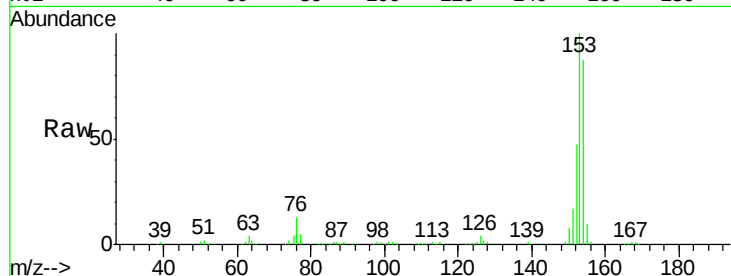
ClientSampleId :

T5-B1(0-12)CDL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 182423 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 114.8 | 89.5  | 134.3  |
| 152       | 54.3  | 42.7  | 64.1   |

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#54

Dibenzofuran

Concen: 14.05 ng

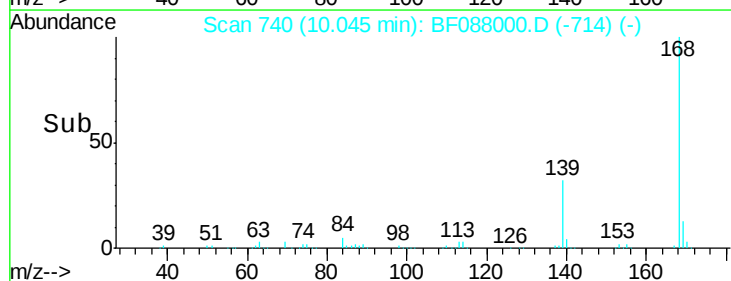
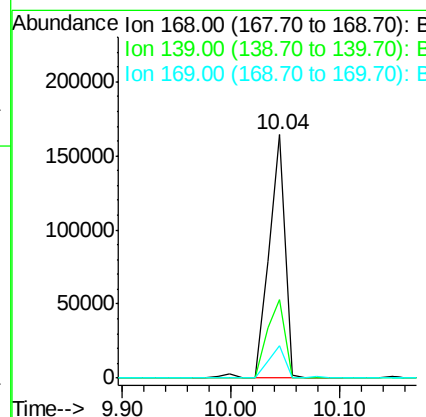
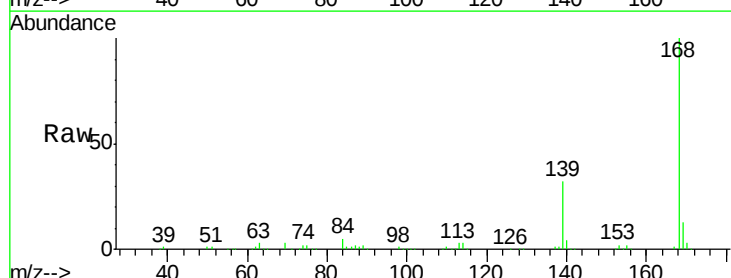
RT: 10.04 min Scan# 740

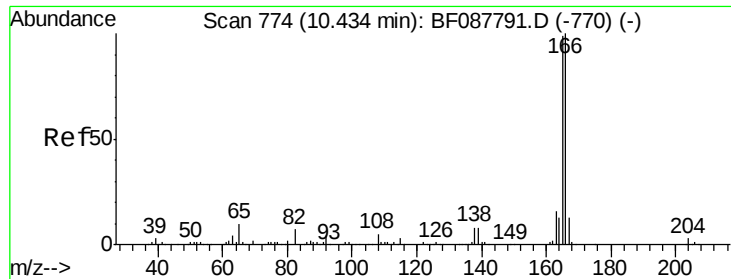
Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 171936 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 32.1  | 26.4  | 39.6   |
| 169       | 13.3  | 10.4  | 15.6   |





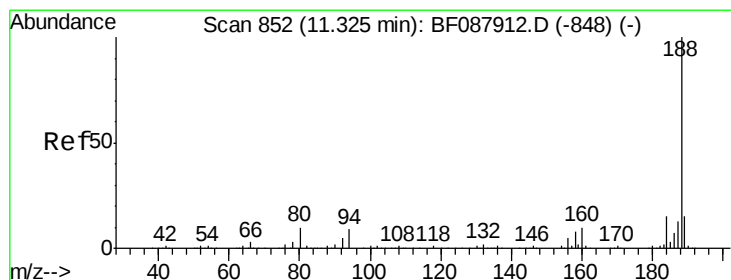
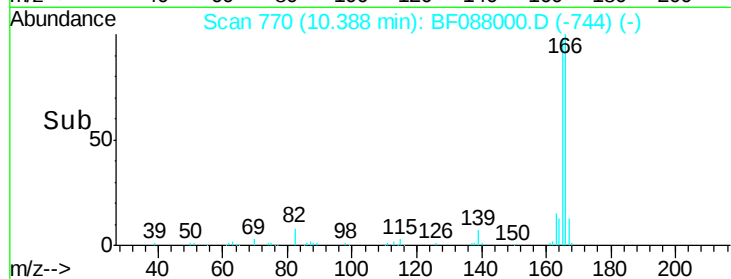
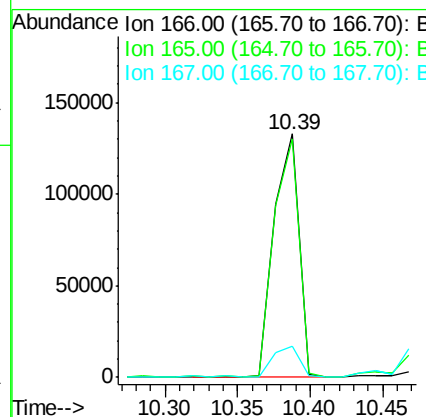
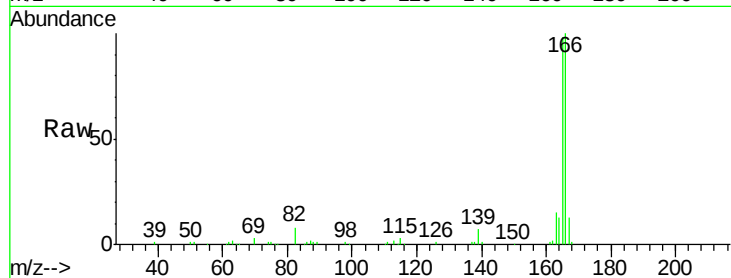
#57  
**Fluorene**  
 Concen: 16.11 ng  
 RT: 10.39 min Scan# 770  
 Delta R.T. -0.00 min  
 Lab File: BF088000.D  
 Acq: 14 Jun 2016 10:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T5-B1(0-12)CDL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 158848 |       |       |
| 165     | 98.2  | 77.8   | 116.8 |       |
| 167     | 12.6  | 11.2   | 16.8  |       |

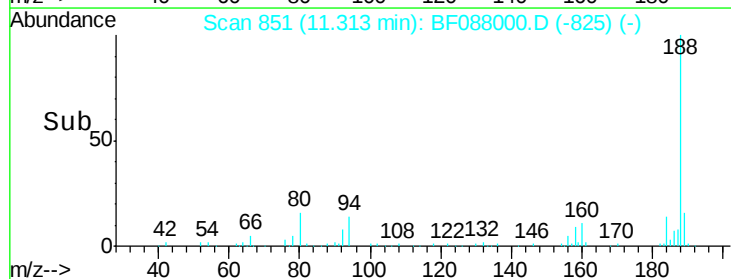
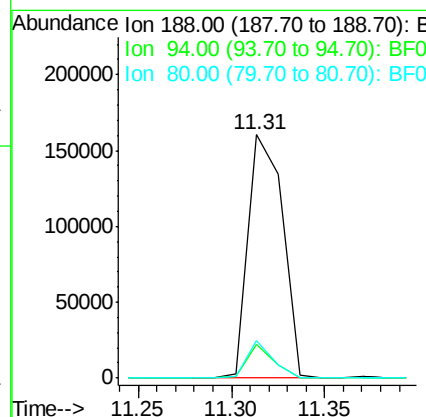
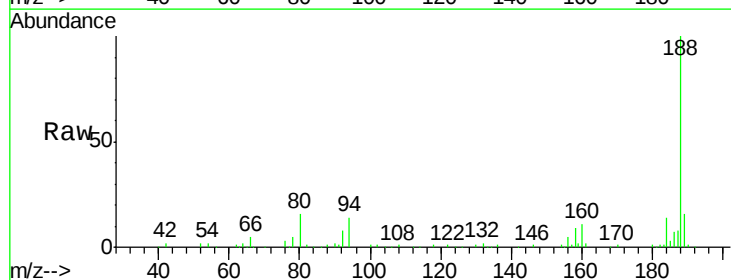
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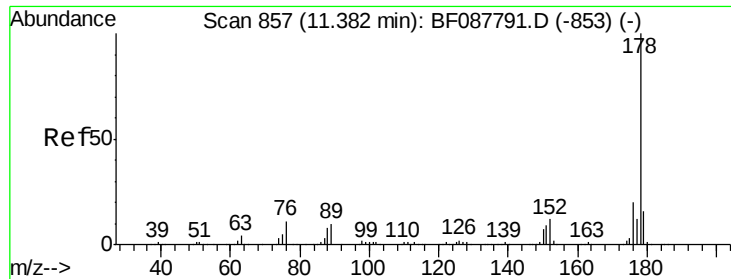
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#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.31 min Scan# 851  
 Delta R.T. -0.00 min  
 Lab File: BF088000.D  
 Acq: 14 Jun 2016 10:41

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 205957 |       |       |
| 94      | 13.9  | 9.0    | 13.6# |       |
| 80      | 15.5  | 10.0   | 15.0# |       |





#70

Phenanthrene

Concen: 53.26 ng

RT: 11.35 min Scan# 854

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

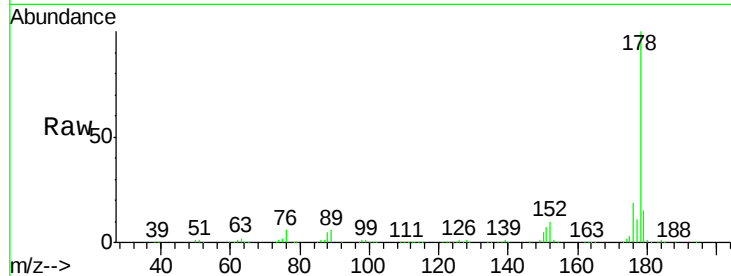
ClientSampleId :

T5-B1(0-12)CDL

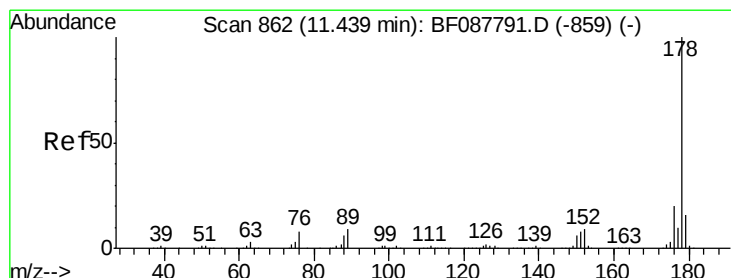
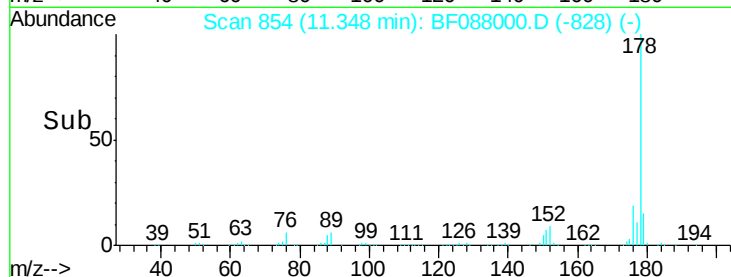
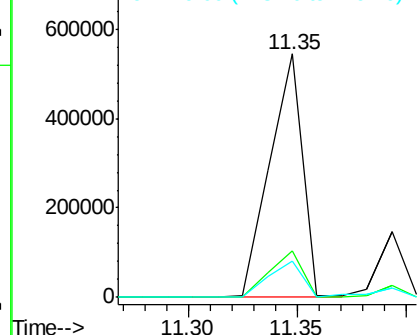
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 575643 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.1  | 15.8  | 23.6   |
| 179       | 15.1  | 13.0  | 19.4   |

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 11.07 ng

RT: 11.39 min Scan# 858

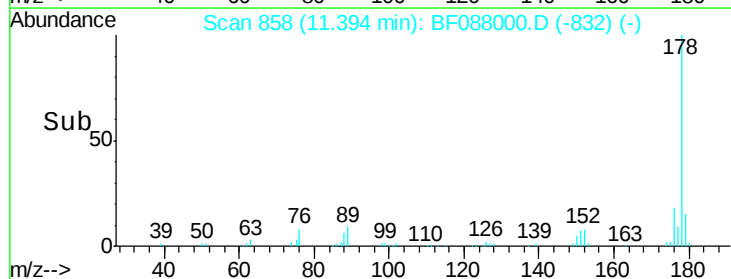
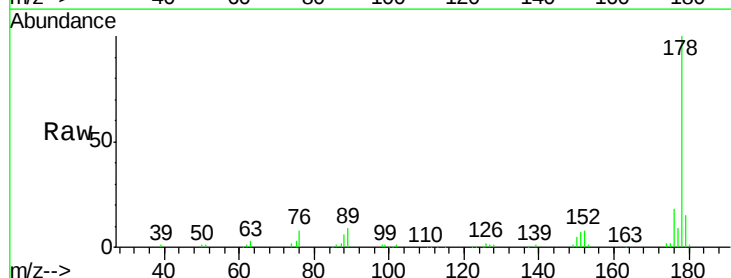
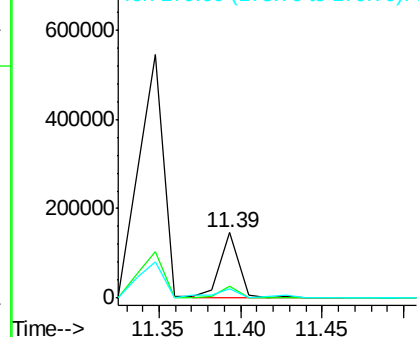
Delta R.T. -0.00 min

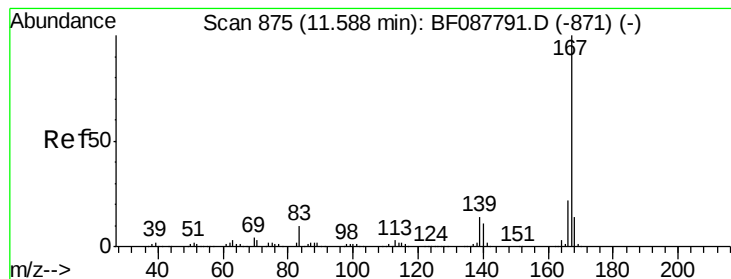
Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 120702 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.1  | 15.6  | 23.4   |
| 179       | 15.1  | 12.8  | 19.2   |

Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.23 ng

RT: 11.55 min Scan# 872

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

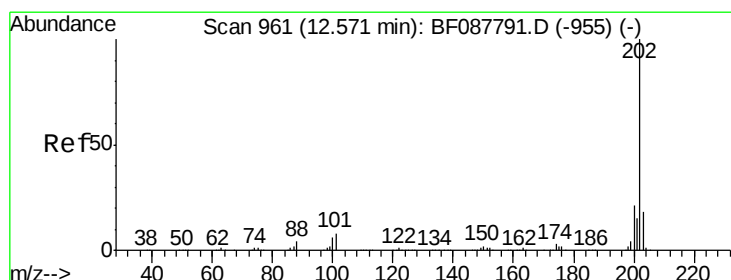
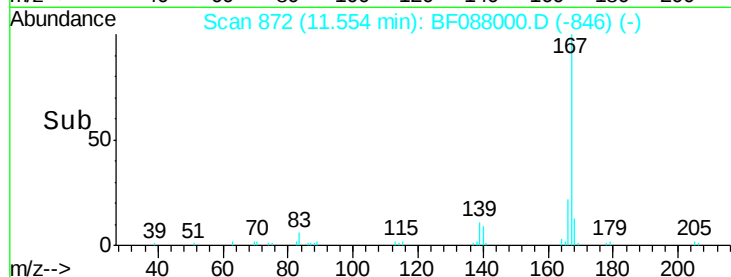
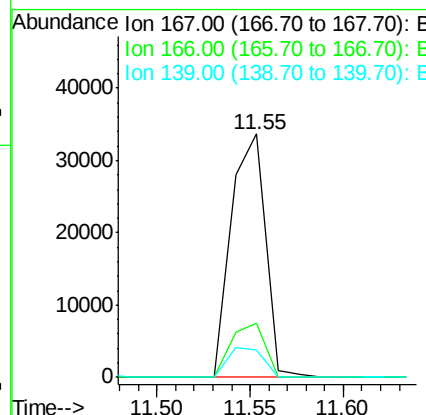
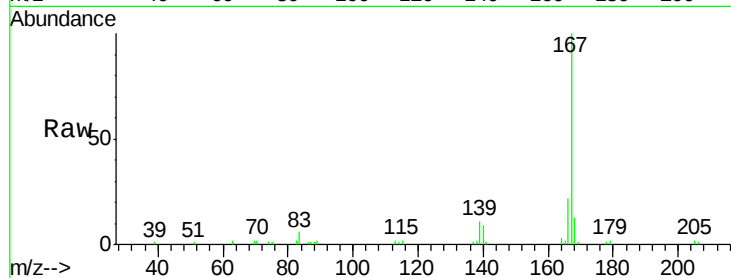
ClientSampleId :

T5-B1(0-12)CDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.3  | 17.8  | 26.6  |
| 139     | 11.0  | 11.2  | 16.8  |

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#74

Fluoranthene

Concen: 25.16 ng

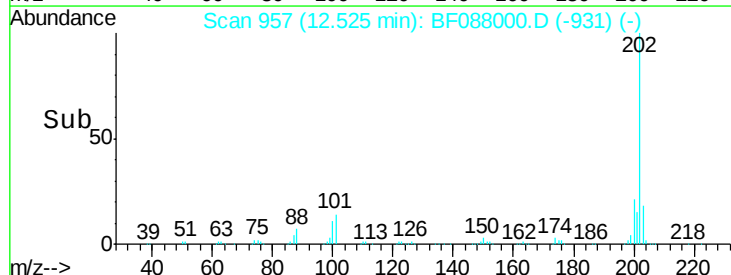
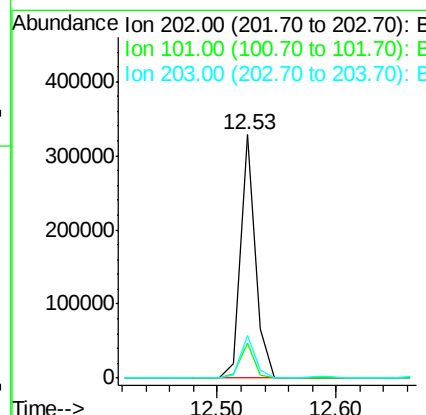
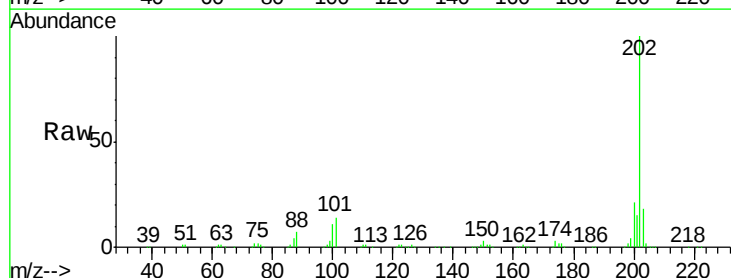
RT: 12.53 min Scan# 957

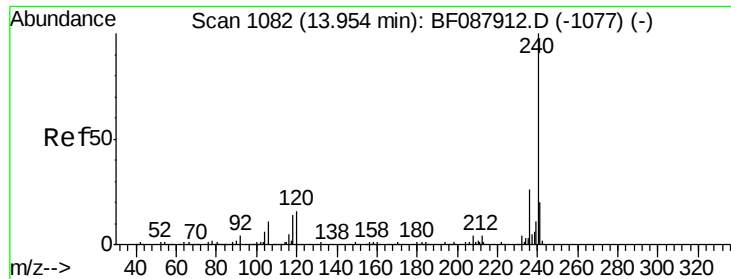
Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.2  | 0.0   | 33.1  |
| 203     | 17.6  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.95 min Scan# 1082

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

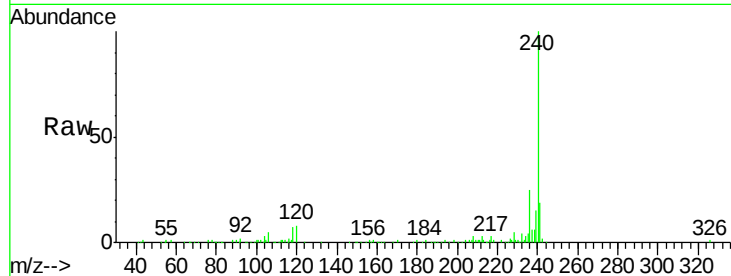
ClientSampleId :

T5-B1(0-12)CDL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 155506 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.0   | 6.8   | 10.2   |
| 236       | 25.0  | 20.2  | 30.2   |

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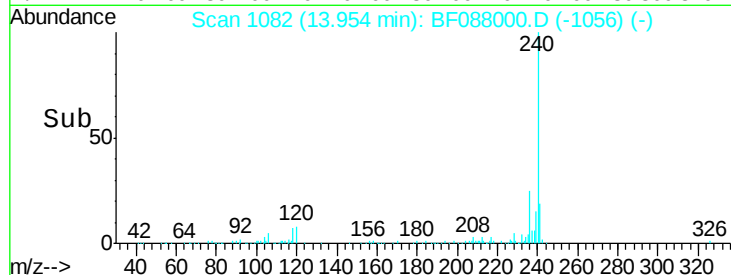


Abundance Ion 240.00 (239.70 to 240.70): E

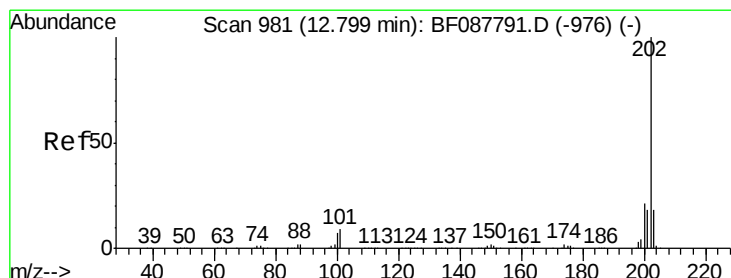
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.95



Time-->



#77

Pyrene

Concen: 18.23 ng

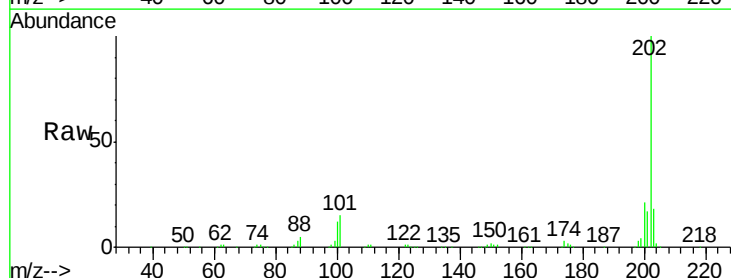
RT: 12.75 min Scan# 977

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 210357 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.9  | 17.4  | 26.2   |
| 203       | 17.7  | 14.5  | 21.7   |

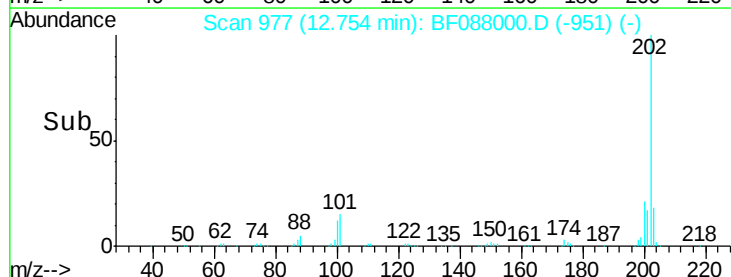


Abundance Ion 202.00 (201.70 to 202.70): E

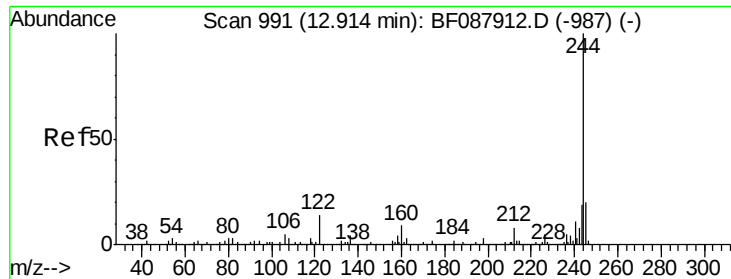
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.75



Time-->



#78

Terphenyl-d14

Concen: 3.80 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

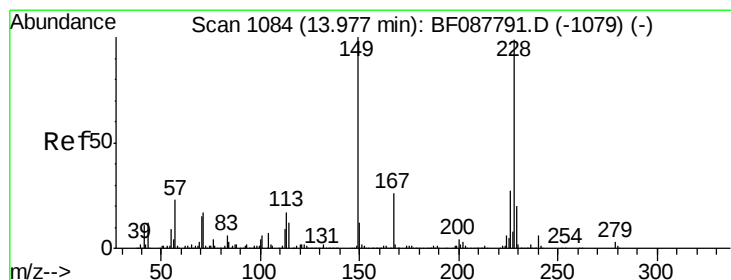
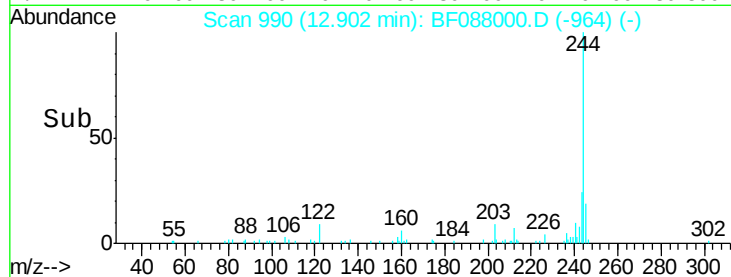
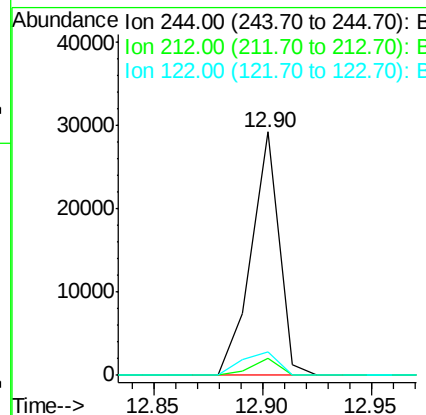
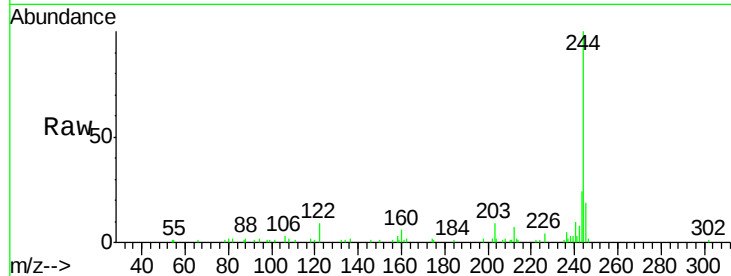
ClientSampleId :

T5-B1(0-12)CDL

|           |     |       |       |
|-----------|-----|-------|-------|
| Tot Ion:  | 244 | Resp: | 25968 |
| Ion Ratio |     | Lower | Upper |
| 244       | 100 |       |       |
| 212       | 6.8 | 6.0   | 9.0   |
| 122       | 9.5 | 11.2  | 16.8# |

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#80

Benzo(a)anthracene

Concen: 5.57 ng m

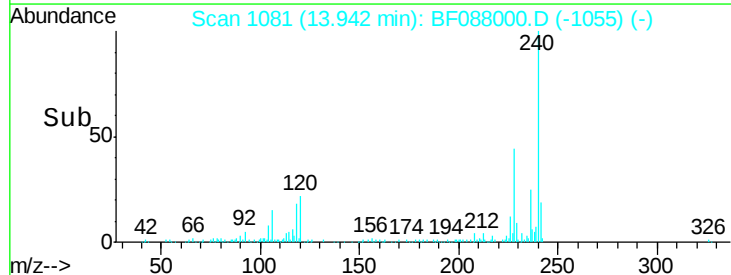
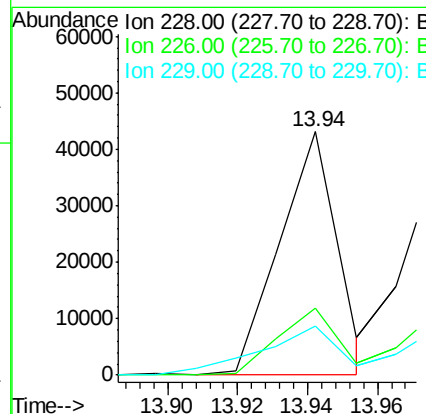
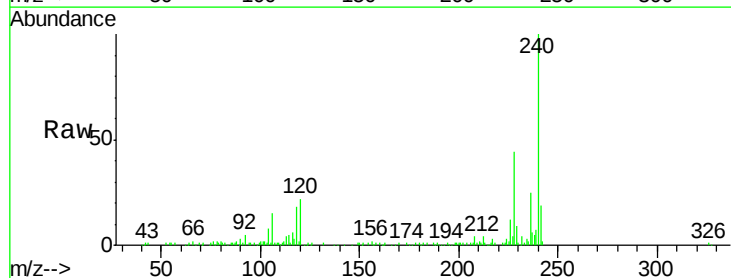
RT: 13.94 min Scan# 1081

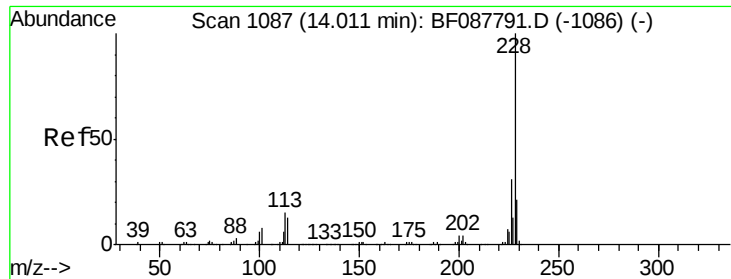
Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 49324 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 27.5 | 22.3  | 33.5  |
| 229       | 20.3 | 16.0  | 24.0  |





#82

Chrysene

Concen: 4.56 ng/mL

RT: 13.98 min Scan# 1084

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

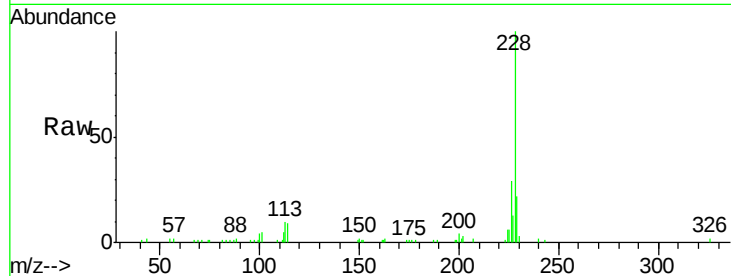
ClientSampleId :

T5-B1(0-12)CDL

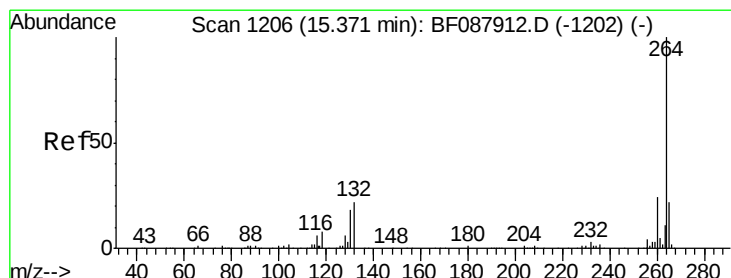
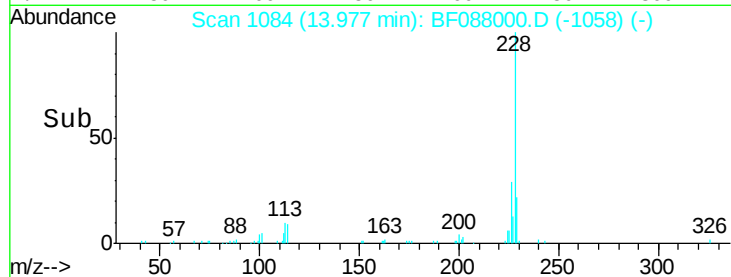
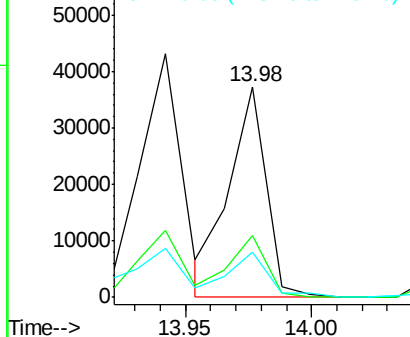
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 38043 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.2  | 25.4  | 38.2  |
| 229       | 21.5  | 16.3  | 24.5  |

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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: 20.00 ng/mL

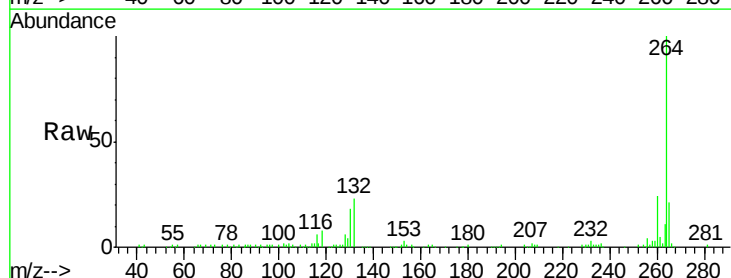
RT: 15.36 min Scan# 1205

Delta R.T. -0.00 min

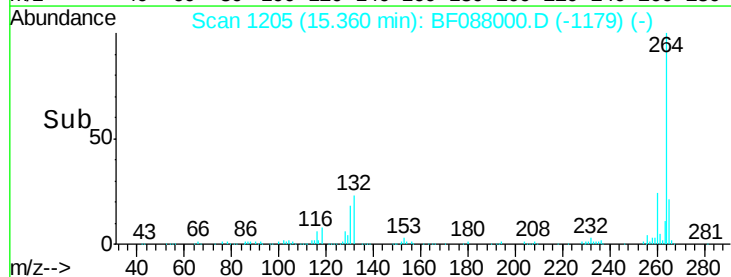
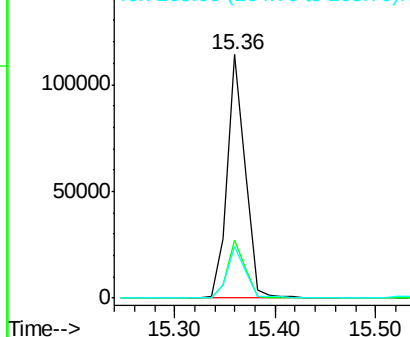
Lab File: BF088000.D

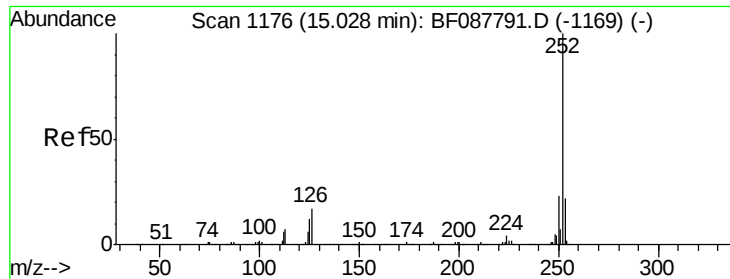
Acq: 14 Jun 2016 10:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 141659 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.6  | 19.2  | 28.8   |
| 265       | 21.0  | 16.9  | 25.3   |



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: 2.68 ng m

RT: 14.96 min Scan# 1170

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA\_F

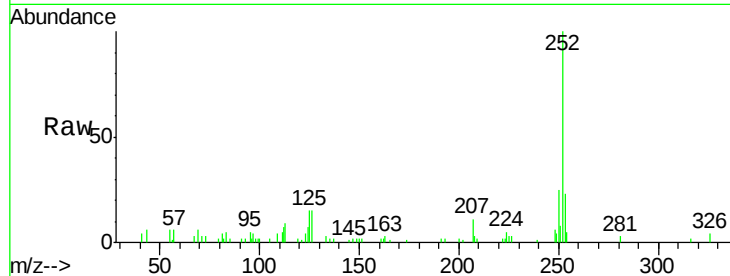
ClientSampleId :

T5-B1(0-12)CDL

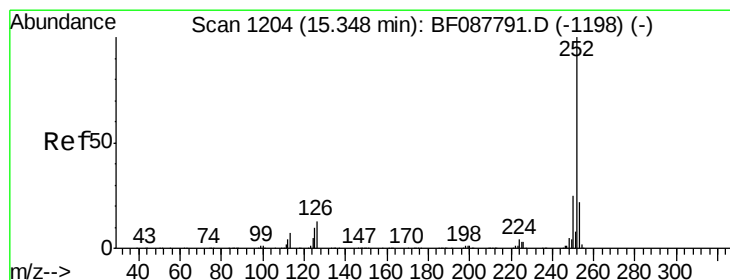
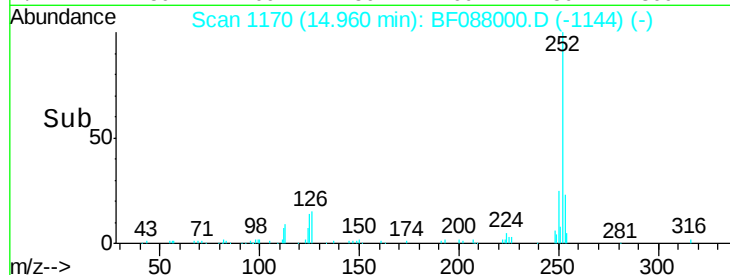
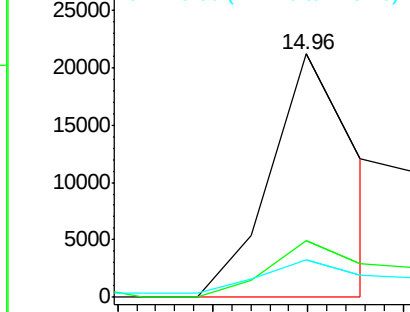
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 26472 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.1  | 17.4  | 26.2  |
| 125       | 15.4  | 7.1   | 10.7# |

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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



#89

Benzo(a)pyrene

Concen: 2.04 ng

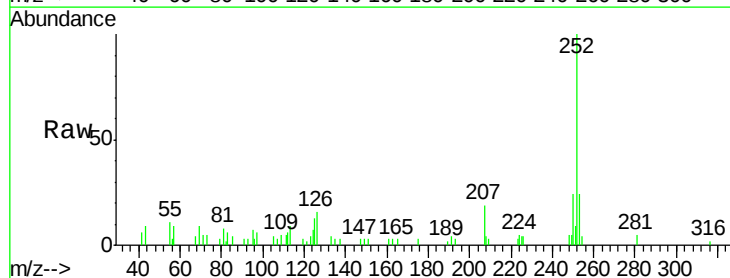
RT: 15.30 min Scan# 1200

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 16274 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.0  | 17.9  | 26.9  |
| 125       | 13.1  | 12.5  | 18.7  |



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

