

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042816\  
 Data File : BF086479.D  
 Acq On : 28 Apr 2016 22:51  
 Operator : UM/SJ  
 Sample : H2654-08  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-2A-CS-9(0-6FTBGS)

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Quant Time: Apr 29 01:54:19 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.78  | 152  | 169771   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.08  | 136  | 693590   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.82  | 164  | 304153   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.31 | 188  | 489161   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.94 | 240  | 316297   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.33 | 264  | 336236   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.39  | 112  | 1135987  | 115.42 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.43  | 99   | 1555090  | 113.20 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 1020499  | 79.31  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.61 | 330  | 289262   | 90.18  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.15  | 172  | 1305442  | 72.68  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.89 | 244  | 861954   | 60.04  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 49) Dimethylphthalate          | 9.55  | 163  | 169882   | 7.42   | ng    | 98       |
| 70) Phenanthrene               | 11.33 | 178  | 135123   | 5.26   | ng    | 99       |
| 74) Fluoranthene               | 12.51 | 202  | 236692   | 9.13   | ng    | 97       |
| 77) Pyrene                     | 12.74 | 202  | 204518   | 8.97   | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.93 | 228  | 113601   | 6.74   | ng    | 98       |
| 82) Chrysene                   | 13.96 | 228  | 76510m   | 4.17   | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 13.93 | 149  | 35689    | 2.91   | ng    | # 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.68 | 276  | 55699    | 4.10   | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 14.95 | 252  | 128034m  | 6.47   | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.96 | 252  | 52207m   | 2.53   | ng    |          |
| 89) Benzo(a)pyrene             | 15.28 | 252  | 91477    | 4.90   | ng    | # 92     |
| 91) Benzo(a,h,i)perylene       | 17.08 | 276  | 49175    | 3.21   | ng    | 97       |

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

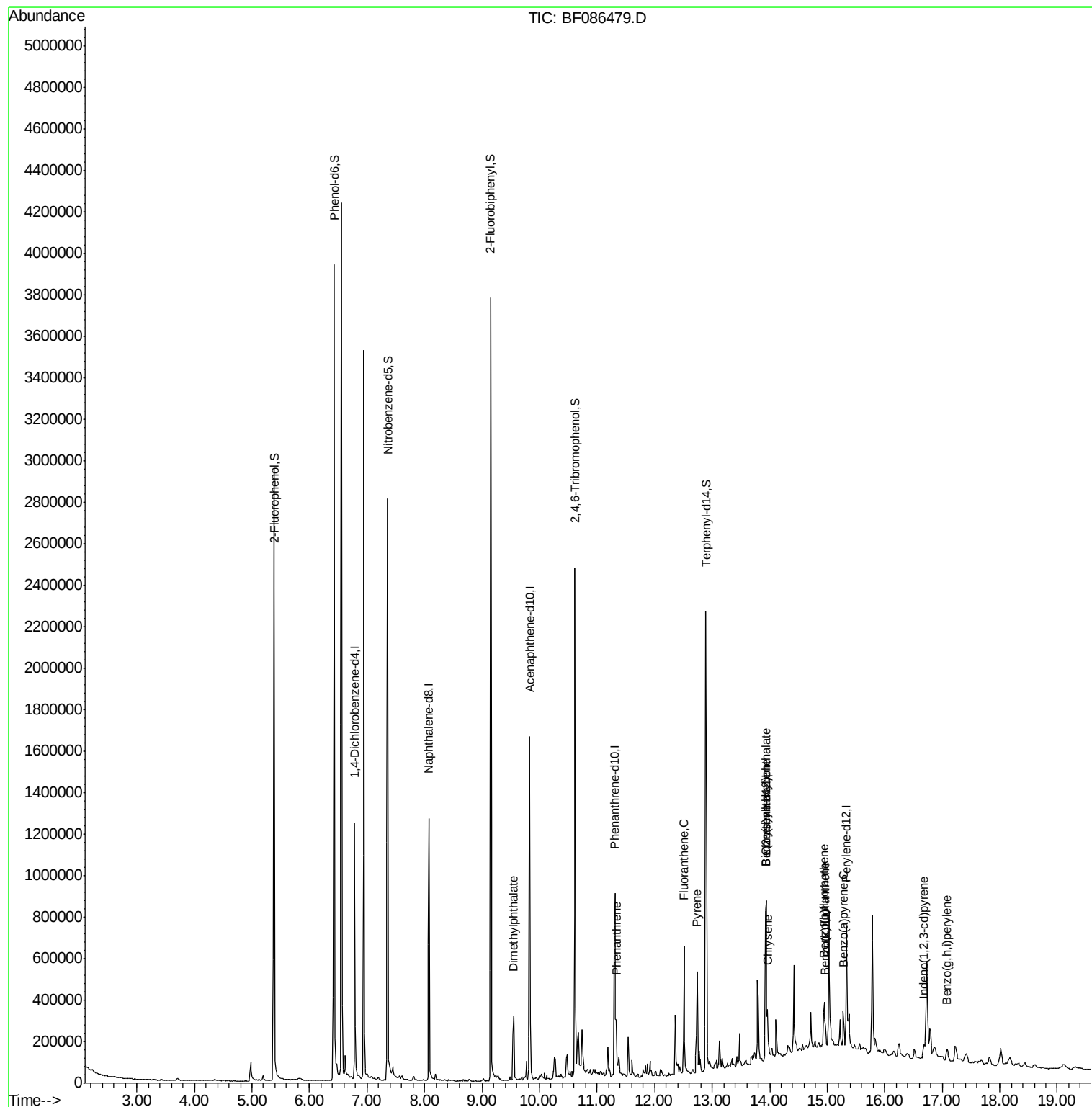
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042816\  
Data File : BF086479.D  
Acq On : 28 Apr 2016 22:51  
Operator : UM/SJ  
Sample : H2654-08  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

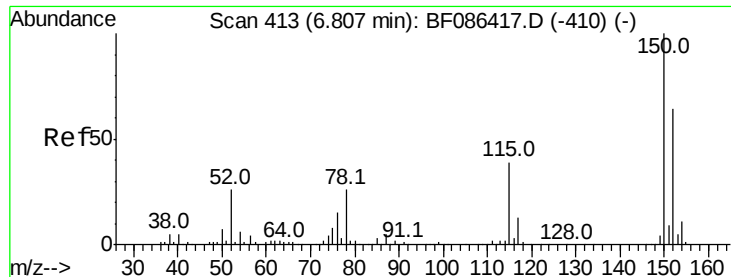
Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-2A-CS-9(0-6FTBGS)

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Quant Time: Apr 29 01:54:19 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 27 14:20:52 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 411

Delta R.T. -0.02 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Instrument :

BNA\_F

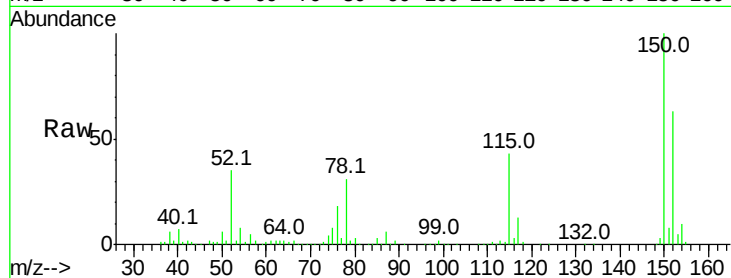
ClientSampleId :

26WARD-2A-CS-9(0-6FTBGS)

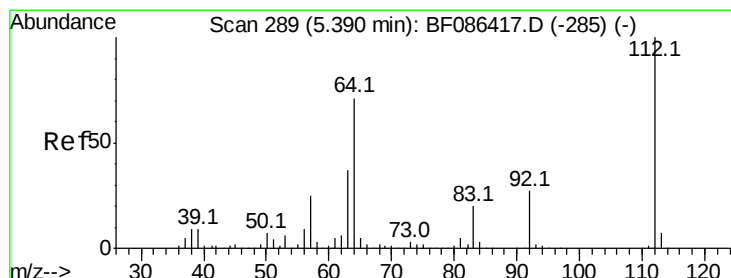
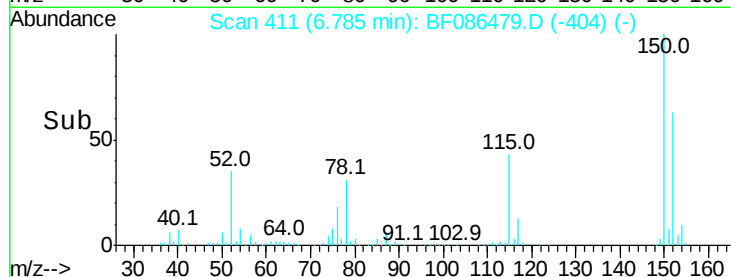
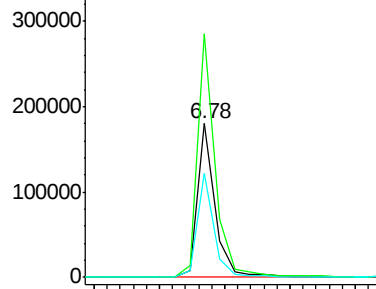
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 169771 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 158.5 | 125.8 | 188.6  |
| 115       | 67.9  | 51.5  | 77.3   |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 115.42 ng

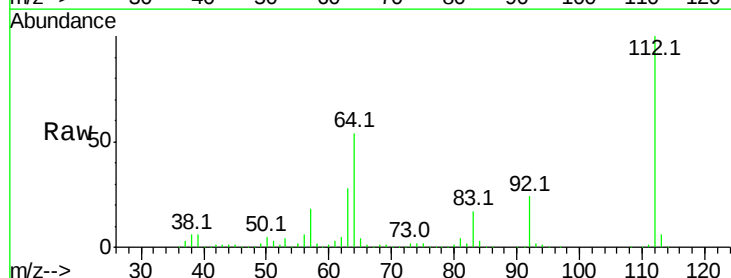
RT: 5.39 min Scan# 289

Delta R.T. 0.00 min

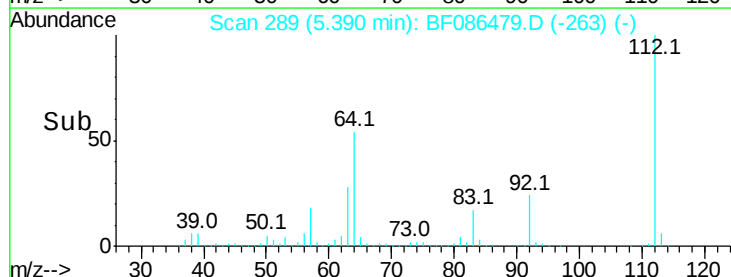
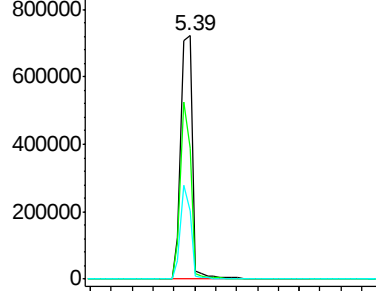
Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 112   | Resp: | 1135987 |
| Ion Ratio | Lower | Upper |         |
| 112       | 100   |       |         |
| 64        | 53.5  | 52.1  | 78.1    |
| 63        | 27.9  | 25.7  | 38.5    |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 113.20 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Instrument :

BNA\_F

ClientSampleId :

26WARD-2A-CS-9(0-6FTBGS)

Tot Ion: 99 Resp: 1555090

Ion Ratio Lower Upper

99 100

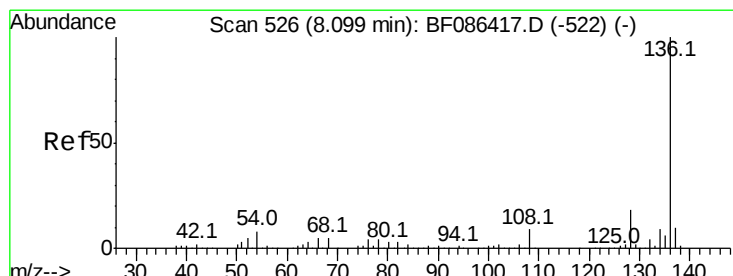
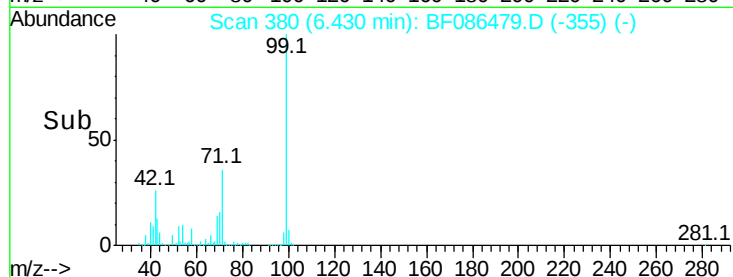
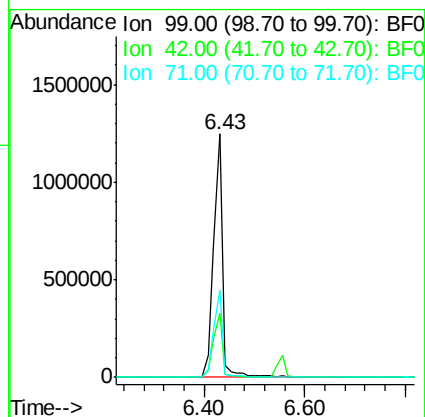
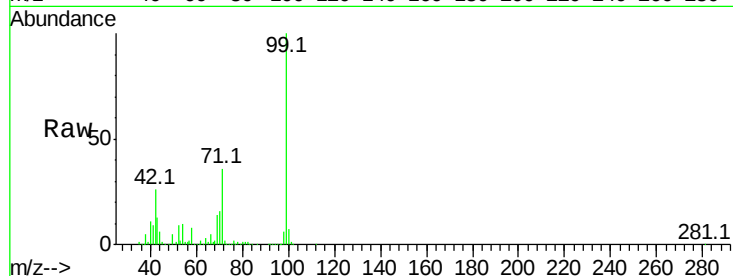
42 26.5 13.6 20.4#

71 36.0 24.6 36.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 524

Delta R.T. -0.02 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Tgt Ion: 136 Resp: 693590

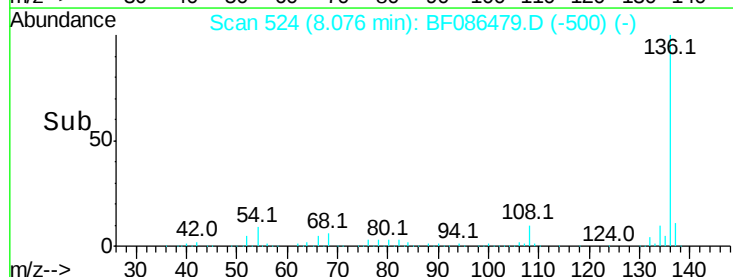
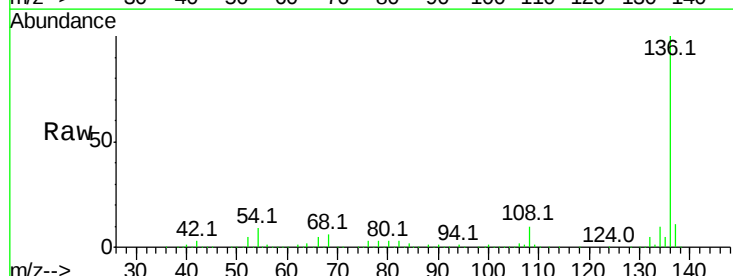
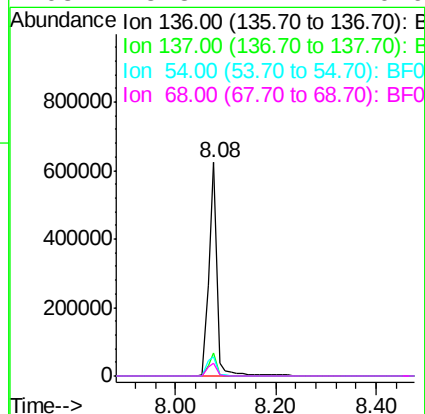
Ion Ratio Lower Upper

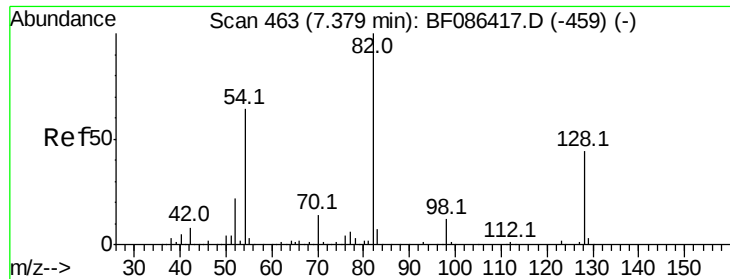
136 100

137 10.7 8.8 13.2

54 9.2 5.0 7.4#

68 5.8 4.4 6.6





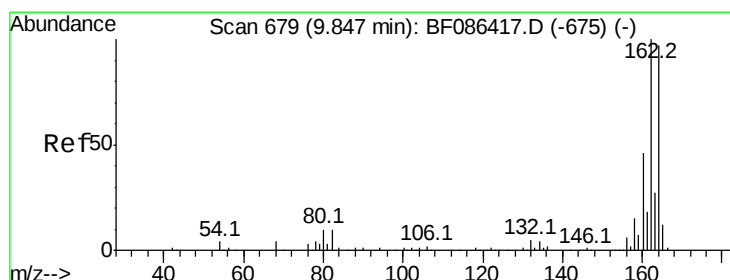
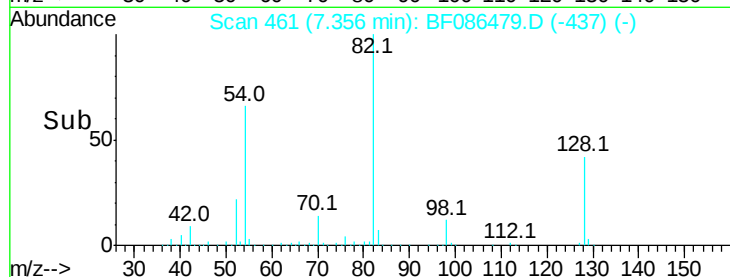
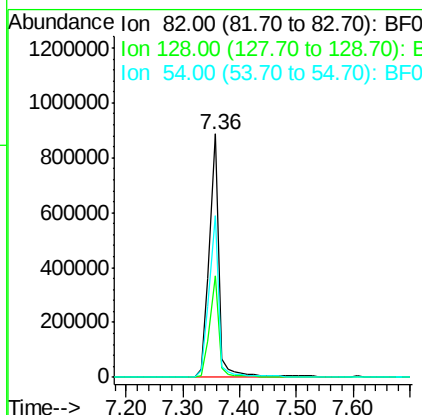
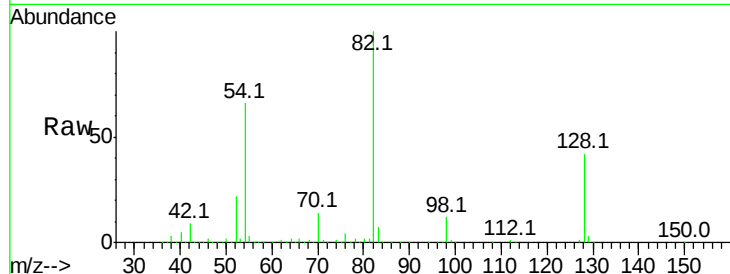
#23  
 Nitrobenzene-d5  
 Concen: 79.31 ng  
 RT: 7.36 min Scan# 461  
 Delta R.T. -0.02 min  
 Lab File: BF086479.D  
 Acq: 28 Apr 2016 22:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-2A-CS-9(0-6FTBGS)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.8  | 40.6  | 61.0  |
| 54      | 66.4  | 38.1  | 57.1# |

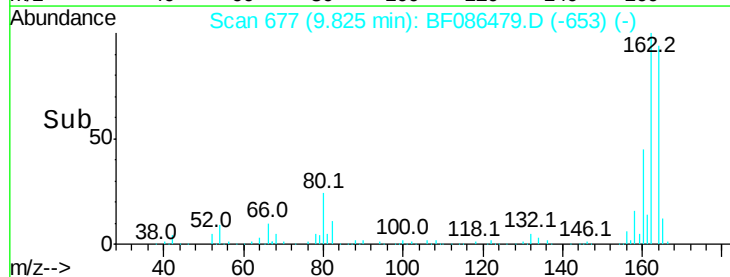
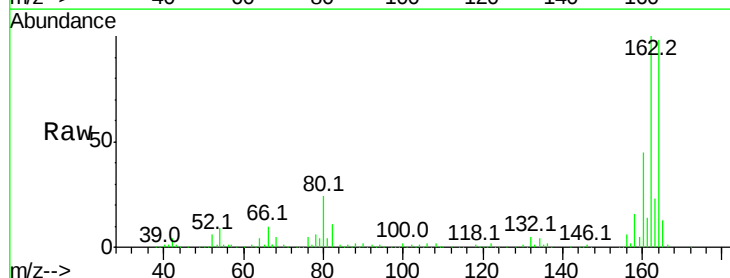
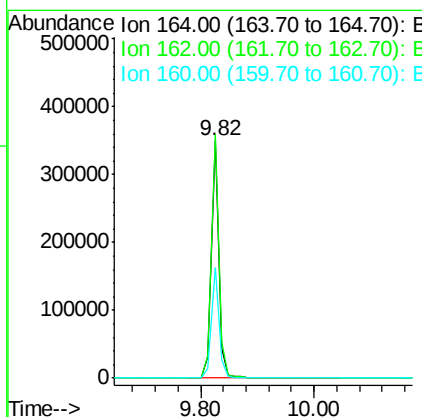
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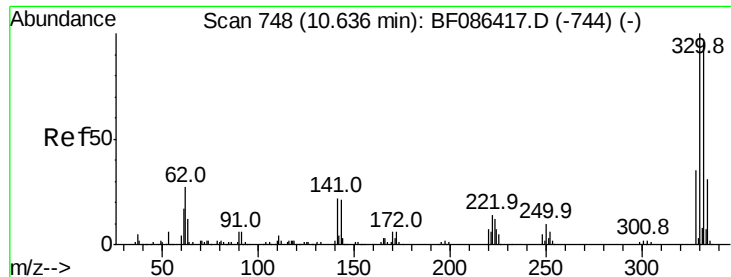
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.82 min Scan# 677  
 Delta R.T. -0.02 min  
 Lab File: BF086479.D  
 Acq: 28 Apr 2016 22:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.5 | 82.8  | 124.2 |
| 160     | 46.4  | 36.9  | 55.3  |





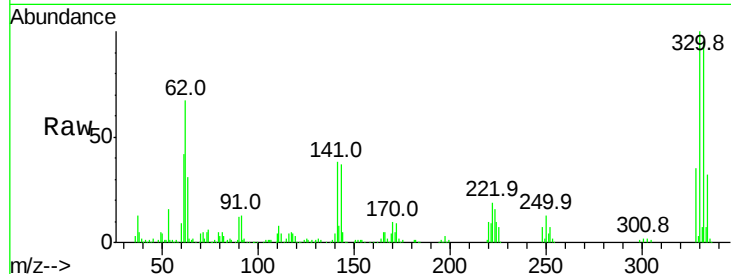
#41  
 2,4,6-Tribromophenol  
 Concen: 90.18 ng  
 RT: 10.61 min Scan# 746  
 Delta R.T. -0.02 min  
 Lab File: BF086479.D  
 Acq: 28 Apr 2016 22:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-2A-CS-9(0-6FTBGS)

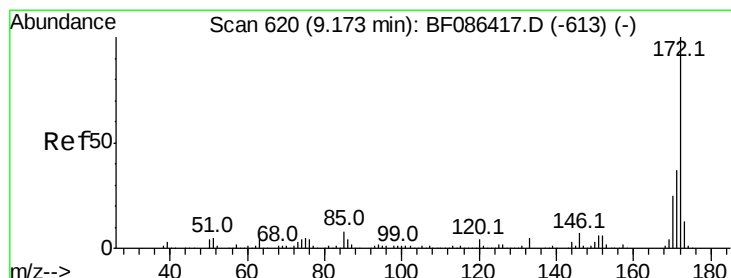
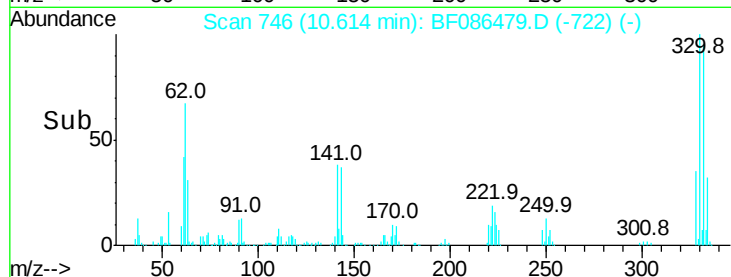
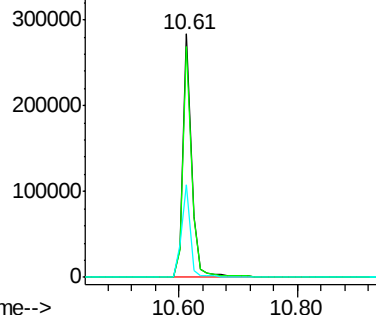
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 289262 |       |       |
| 332     | 95.7  | 79.0   | 118.4 |       |
| 141     | 38.8  | 31.2   | 46.8  |       |

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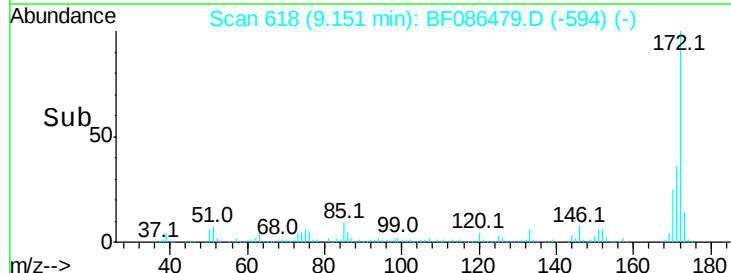
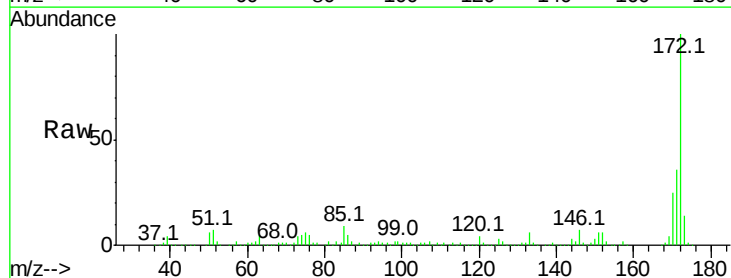
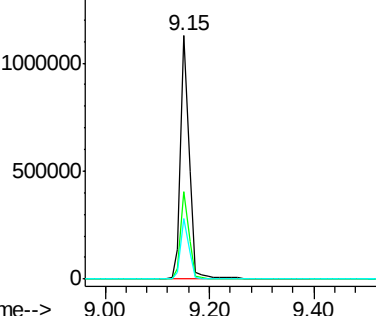
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

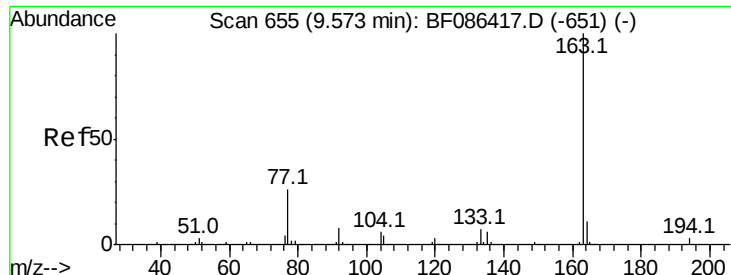


#44  
 2-Fluorobiphenyl  
 Concen: 72.68 ng  
 RT: 9.15 min Scan# 618  
 Delta R.T. -0.02 min  
 Lab File: BF086479.D  
 Acq: 28 Apr 2016 22:51

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1305442 |       |       |
| 171     | 36.1  | 29.0    | 43.6  |       |
| 170     | 24.7  | 19.8    | 29.8  |       |

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





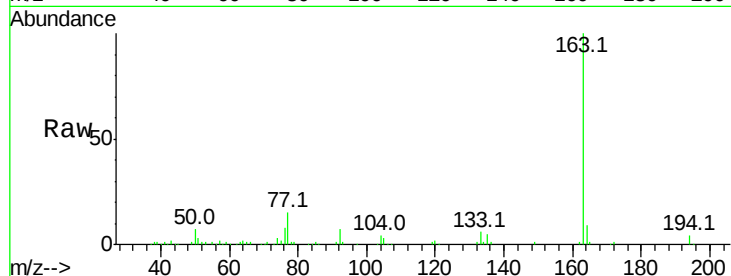
#49  
Dimethylphthalate  
Concen: 7.42 ng  
RT: 9.55 min Scan# 653  
Delta R.T. -0.02 min  
Lab File: BF086479.D  
Acq: 28 Apr 2016 22:51

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-2A-CS-9(0-6FTBGS)

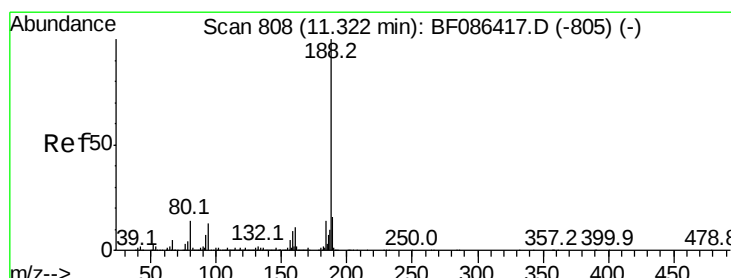
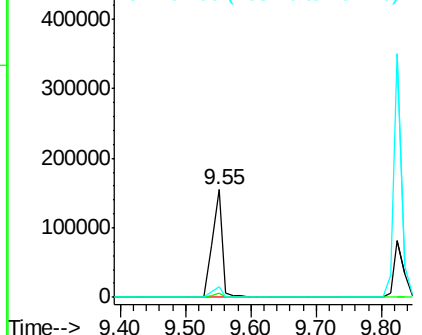
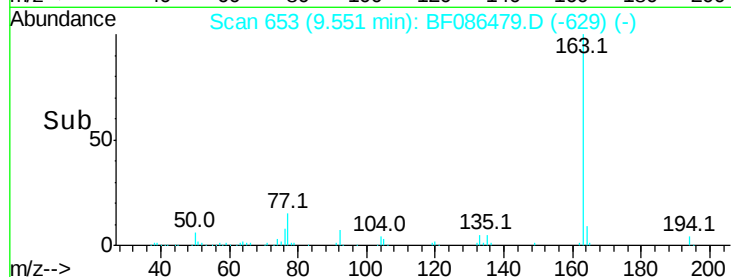
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 169882 |       |       |
| 194     | 3.6   |        | 2.6   | 4.0   |
| 164     | 9.4   |        | 8.2   | 12.4  |

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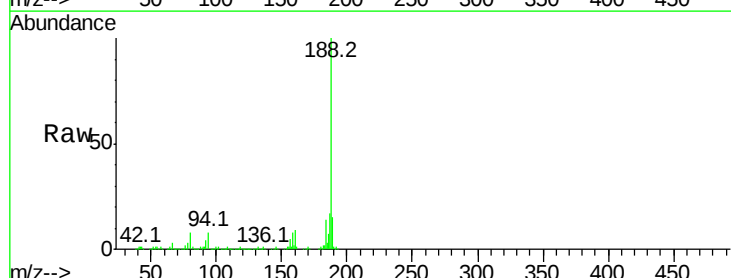


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

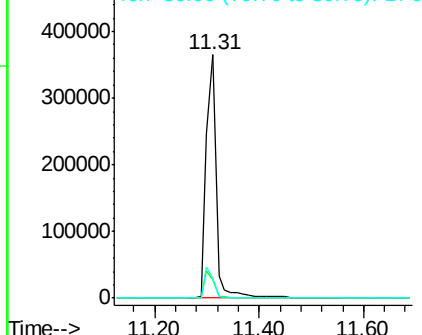
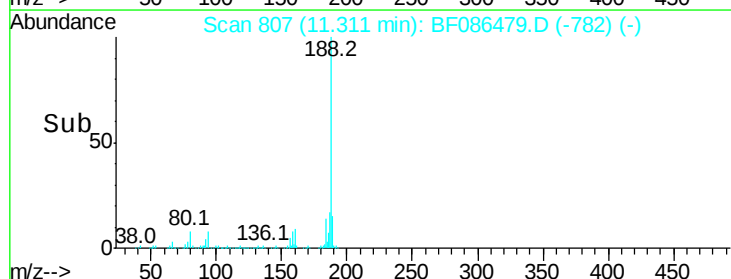


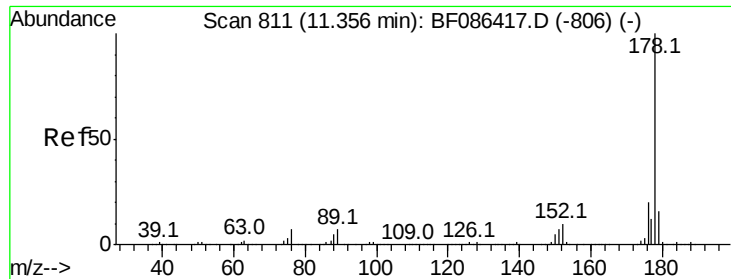
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.31 min Scan# 807  
Delta R.T. -0.01 min  
Lab File: BF086479.D  
Acq: 28 Apr 2016 22:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 489161 |       |       |
| 94      | 7.7   |        | 6.8   | 10.2  |
| 80      | 7.9   |        | 7.1   | 10.7  |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0





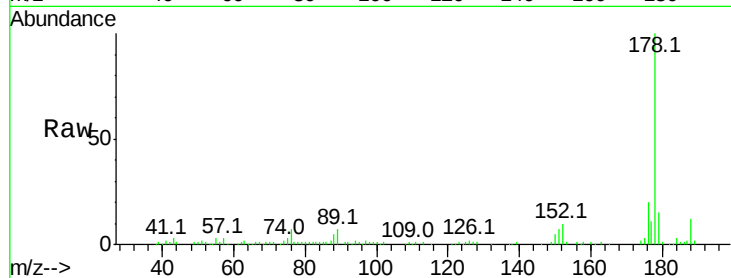
#70  
Phenanthrene  
Concen: 5.26 ng  
RT: 11.33 min Scan# 809  
Delta R.T. -0.02 min  
Lab File: BF086479.D  
Acq: 28 Apr 2016 22:51

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-2A-CS-9(0-6FTBGS)

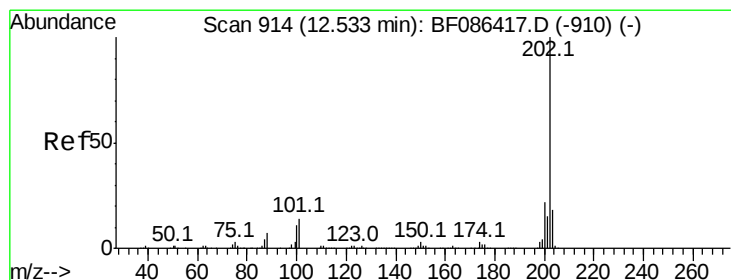
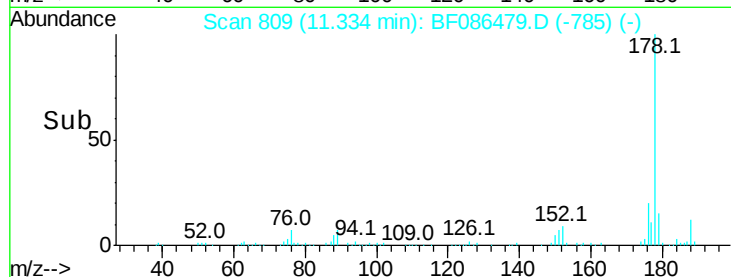
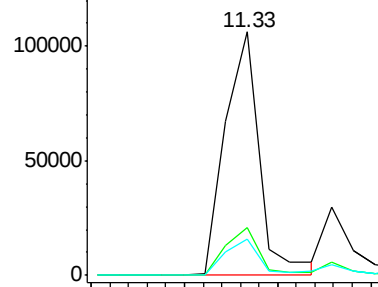
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 16.0  | 24.0  |
| 179     | 14.7  | 12.6  | 18.8  |

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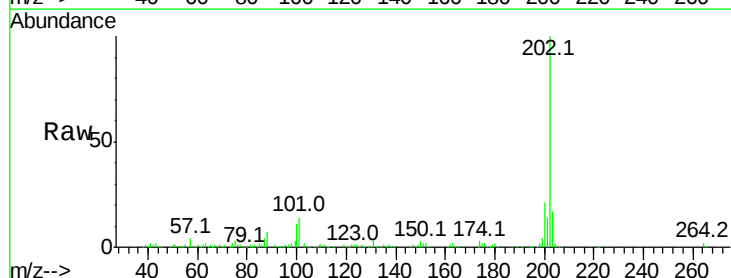


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

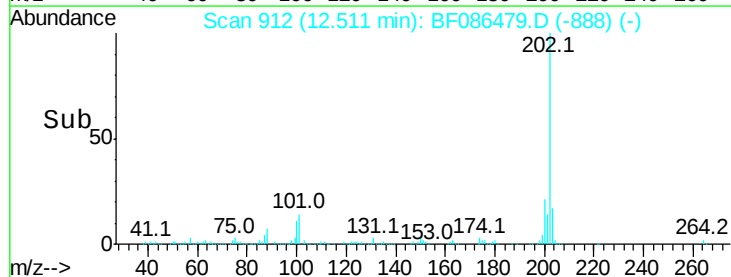
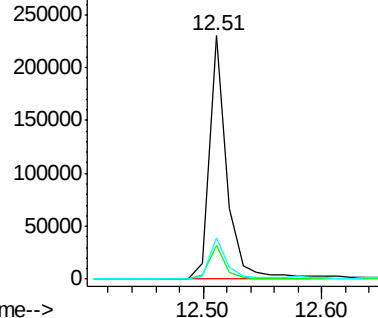


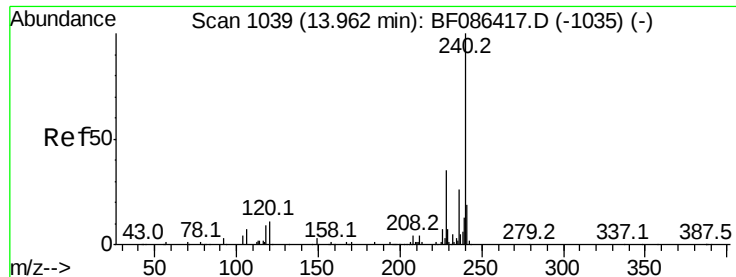
#74  
Fluoranthene  
Concen: 9.13 ng  
RT: 12.51 min Scan# 912  
Delta R.T. -0.02 min  
Lab File: BF086479.D  
Acq: 28 Apr 2016 22:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.7  | 0.0   | 35.4  |
| 203     | 17.1  | 0.0   | 38.1  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.02 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Instrument :

BNA\_F

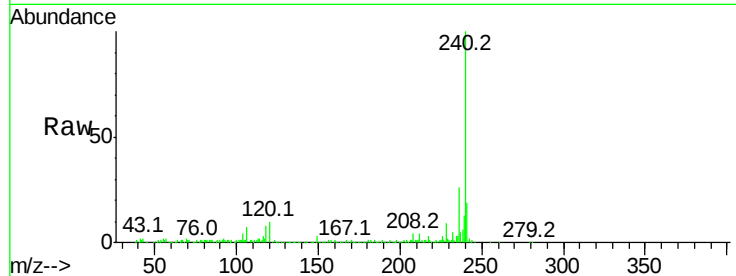
ClientSampleId :

26WARD-2A-CS-9(0-6FTBGS)

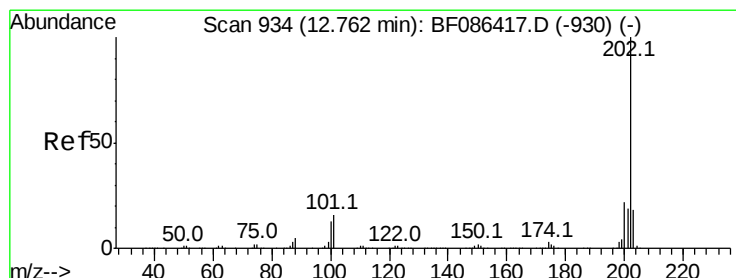
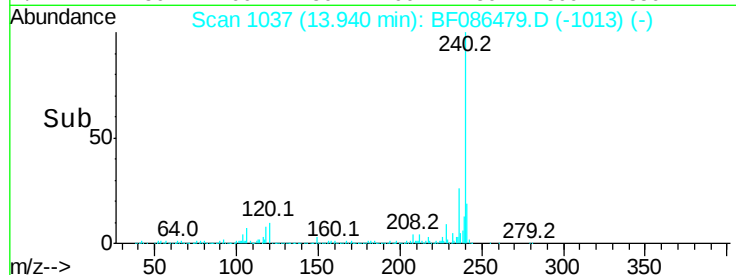
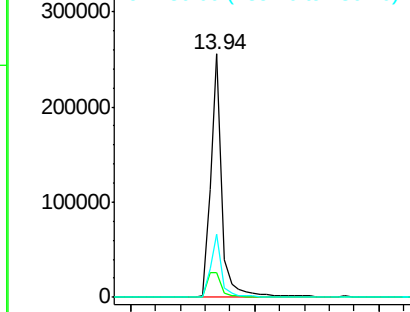
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 240  | Resp: | 316297 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 9.9  | 11.2  | 16.8#  |
| 236       | 25.8 | 21.2  | 31.8   |

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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



#77

Pyrene

Concen: 8.97 ng

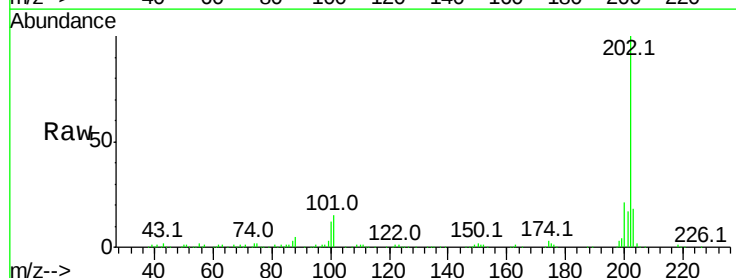
RT: 12.74 min Scan# 932

Delta R.T. -0.02 min

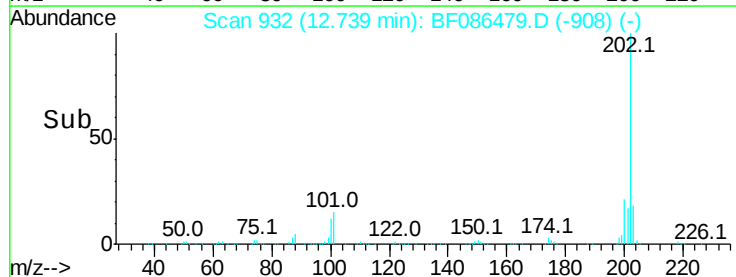
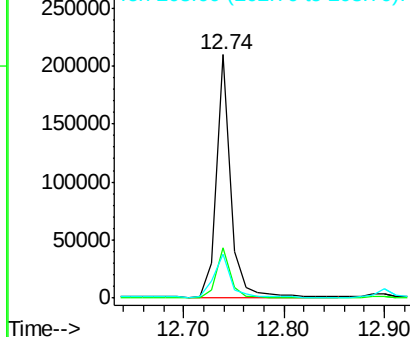
Lab File: BF086479.D

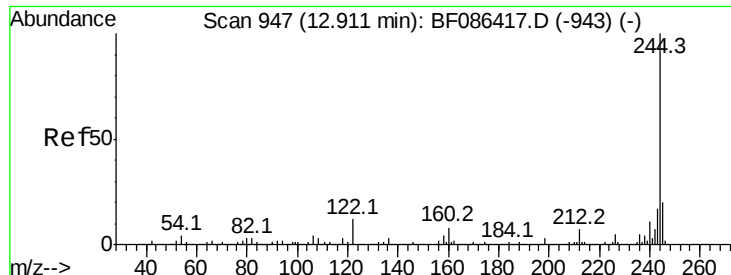
Acq: 28 Apr 2016 22:51

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 204518 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.8 | 17.7  | 26.5   |
| 203       | 18.1 | 14.2  | 21.4   |



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





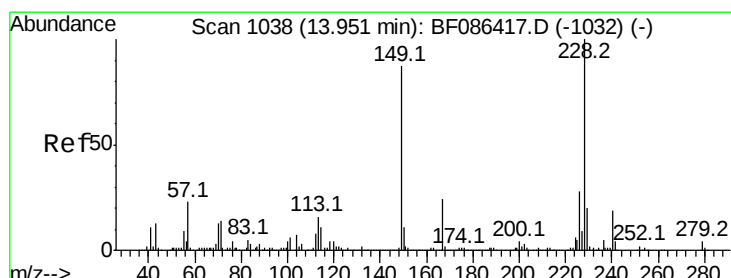
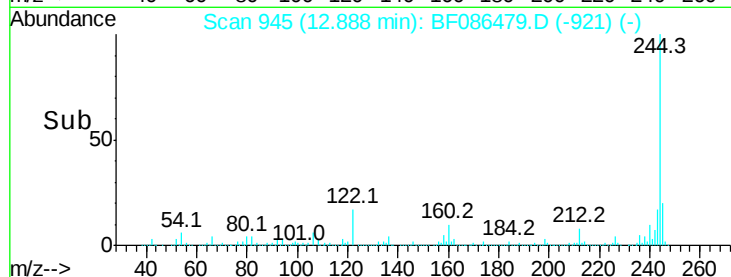
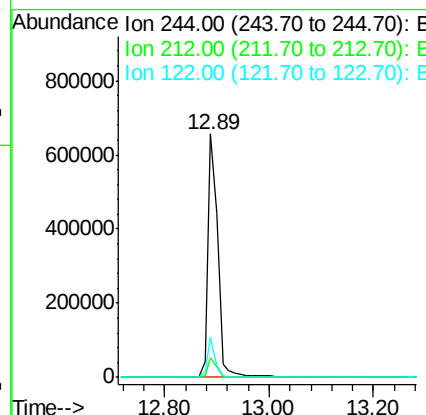
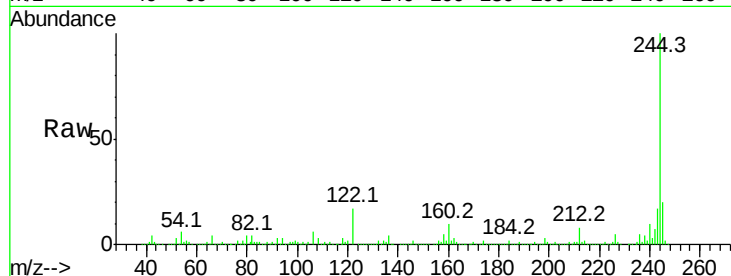
#78  
 Terphenyl-d14  
 Concen: 60.04 ng  
 RT: 12.89 min Scan# 945  
 Delta R.T. -0.02 min  
 Lab File: BF086479.D  
 Acq: 28 Apr 2016 22:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-2A-CS-9(0-6FTBGS)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 244     | 100   |      |       |       |
| 212     | 7.9   | 6.2  | 9.2   |       |
| 122     | 16.5  | 12.0 | 18.0  |       |

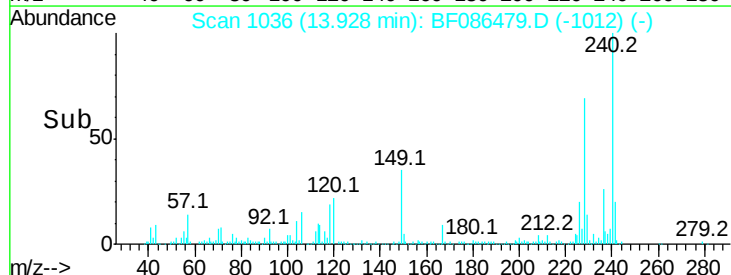
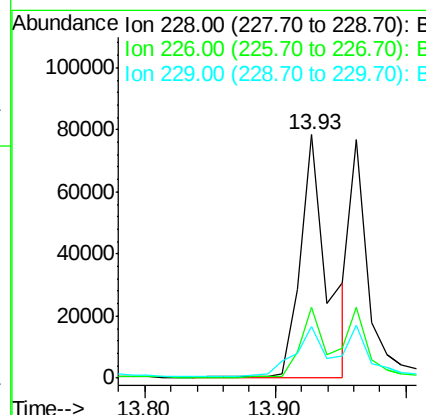
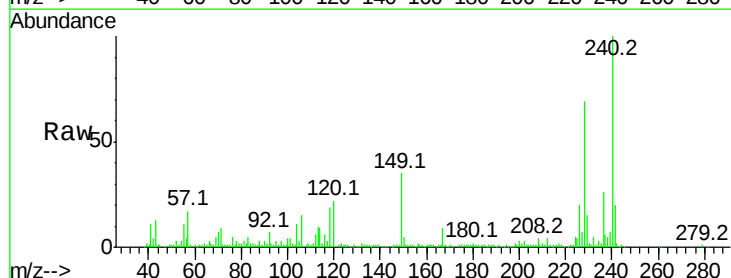
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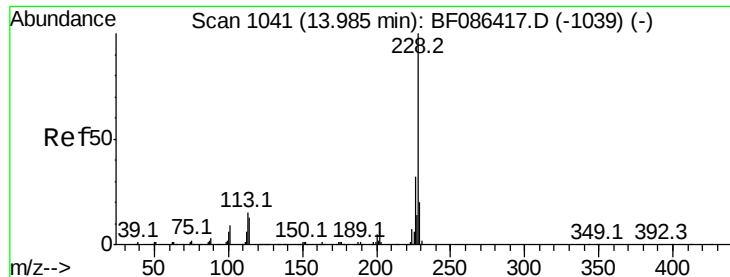
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#80  
 Benzo(a)anthracene  
 Concen: 6.74 ng  
 RT: 13.93 min Scan# 1036  
 Delta R.T. -0.02 min  
 Lab File: BF086479.D  
 Acq: 28 Apr 2016 22:51

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 29.0  | 22.5 | 33.7  |       |
| 229     | 21.4  | 16.6 | 25.0  |       |





#82

Chrysene

Concen: 4.17 ng/mL

RT: 13.96 min Scan# 1039

Delta R.T. -0.02 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Instrument :

BNA\_F

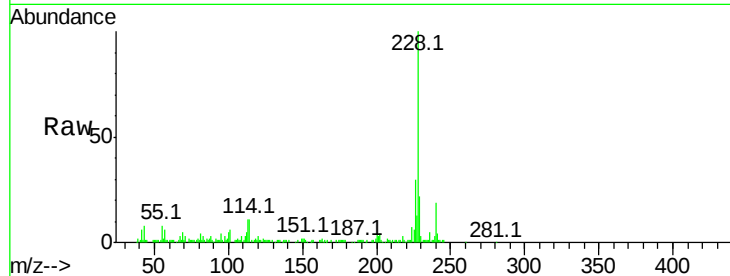
ClientSampleId :

26WARD-2A-CS-9(0-6FTBGS)

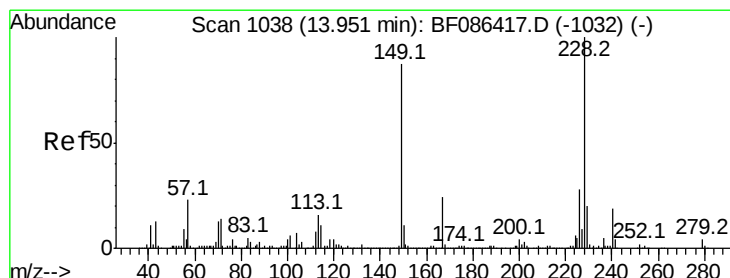
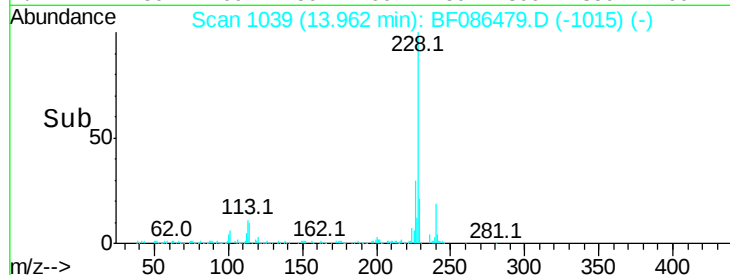
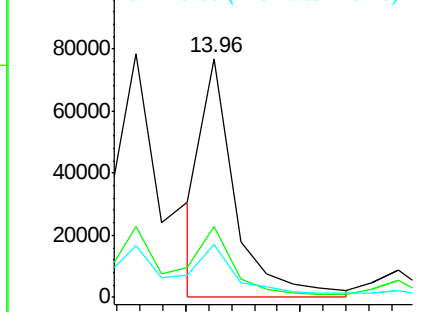
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 76510 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.8  | 24.4  | 36.6  |
| 229       | 22.2  | 15.8  | 23.8  |

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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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.91 ng/mL

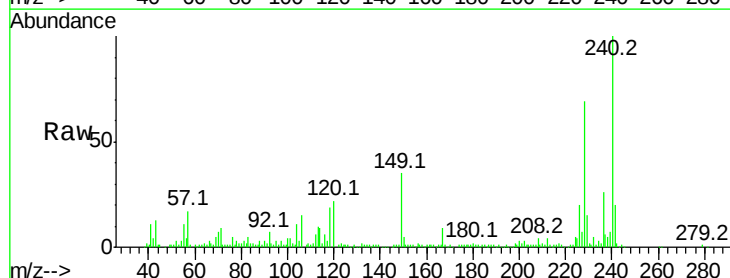
RT: 13.93 min Scan# 1036

Delta R.T. -0.02 min

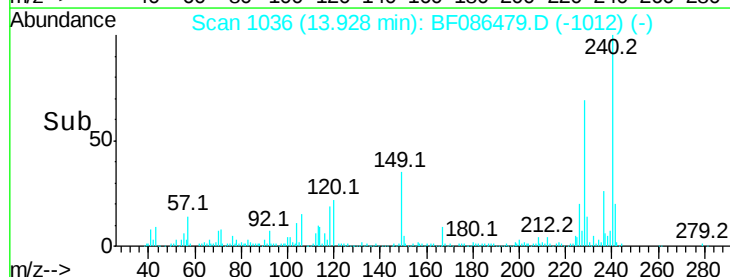
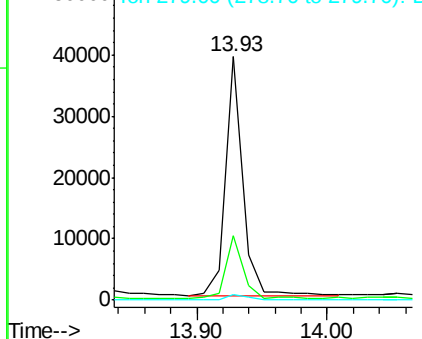
Lab File: BF086479.D

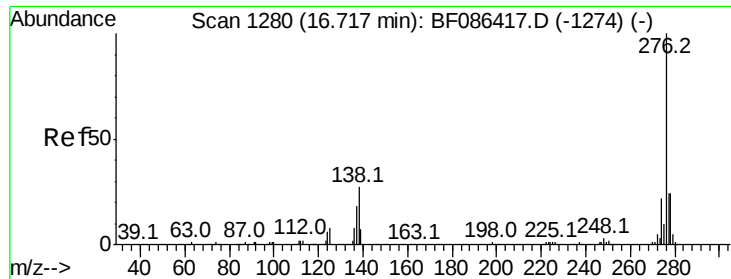
Acq: 28 Apr 2016 22:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 35689 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 26.5  | 21.8  | 32.6  |
| 279       | 2.3   | 2.6   | 4.0#  |



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E





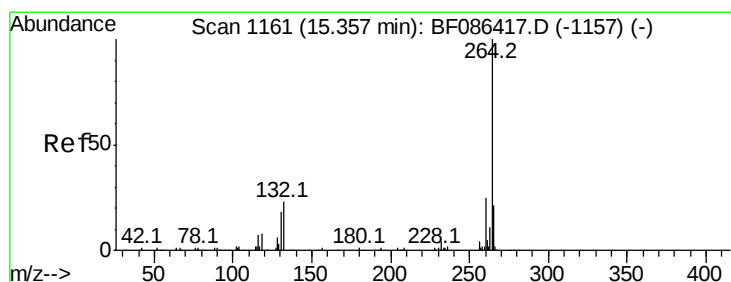
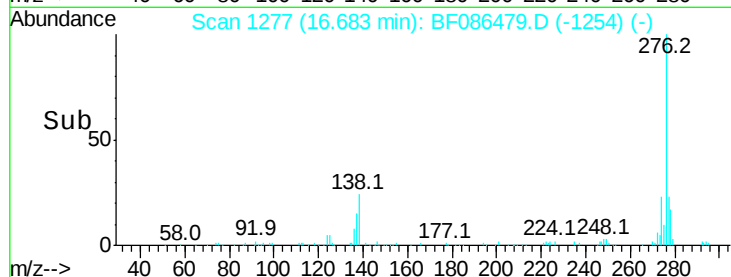
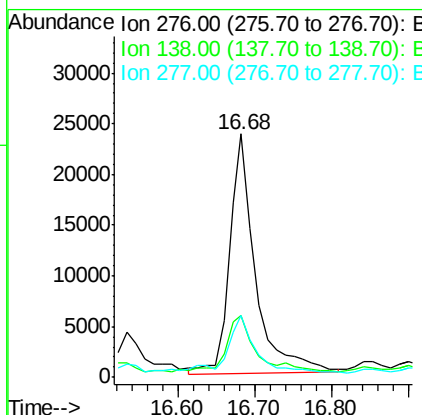
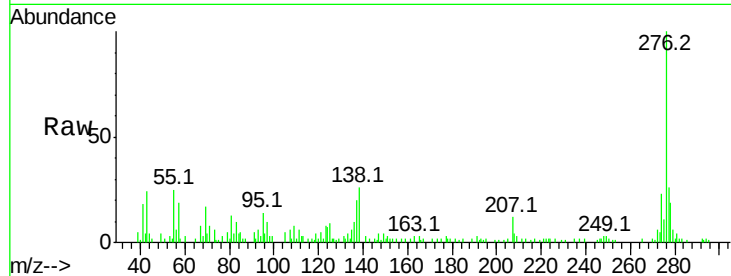
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.10 ng  
RT: 16.68 min Scan# 1277  
Delta R.T. -0.03 min  
Lab File: BF086479.D  
Acq: 28 Apr 2016 22:51

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-2A-CS-9(0-6FTBGS)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 55699 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.9  | 25.6  | 38.4  |
| 277       | 27.1  | 20.5  | 30.7  |

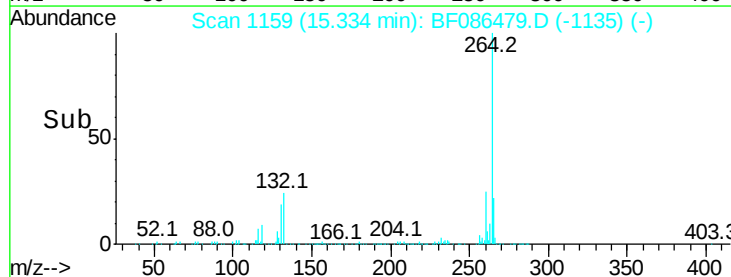
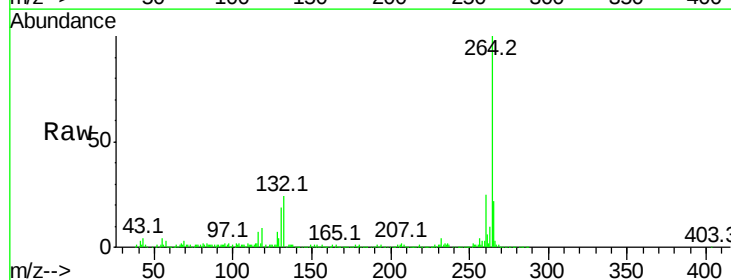
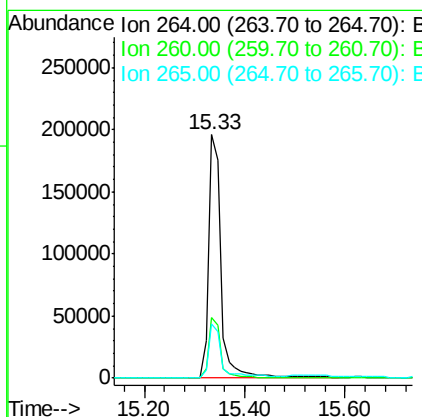
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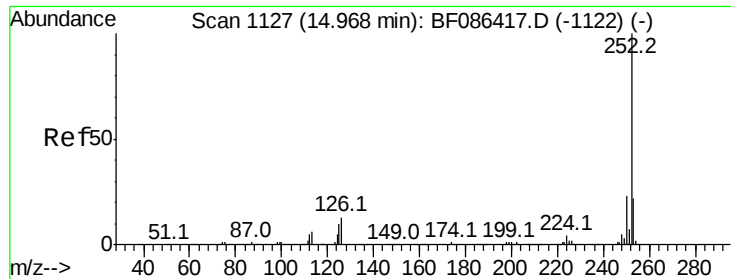
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.33 min Scan# 1159  
Delta R.T. -0.02 min  
Lab File: BF086479.D  
Acq: 28 Apr 2016 22:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 336236 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.7  | 19.5  | 29.3   |
| 265       | 22.3  | 17.3  | 25.9   |





#87

Benzo(b)fluoranthene

Concen: 6.47 ng m

RT: 14.95 min Scan# 1125

Delta R.T. -0.02 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Instrument :

BNA\_F

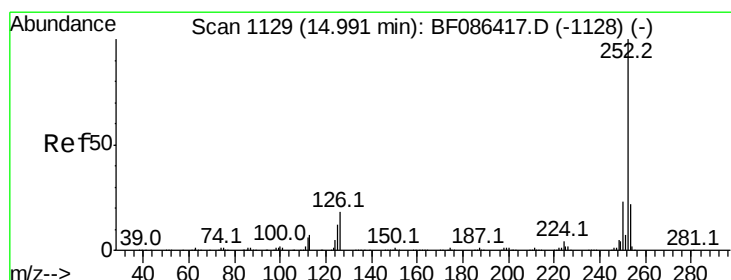
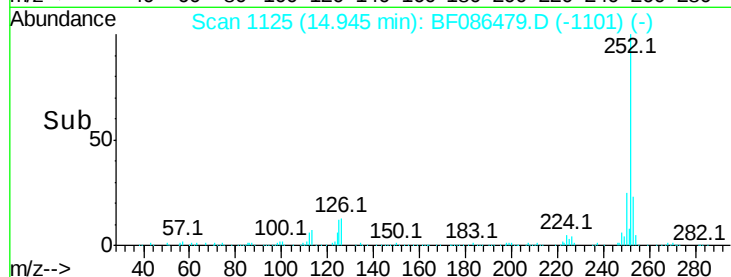
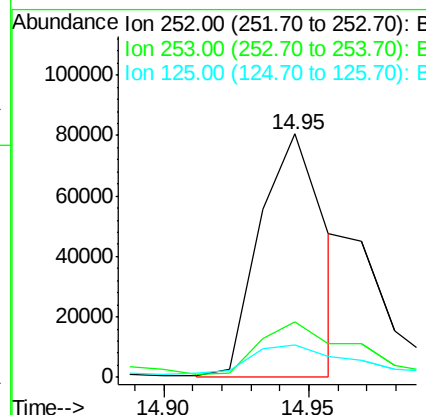
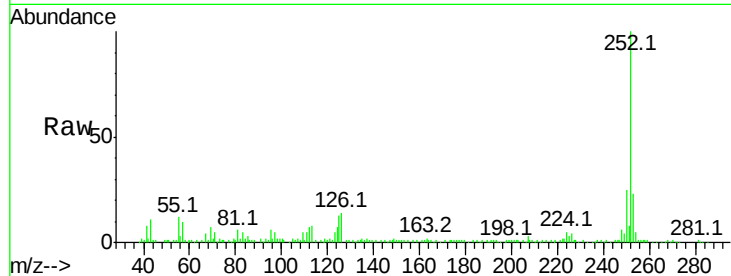
ClientSampleId :

26WARD-2A-CS-9(0-6FTBGS)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 128034 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.8  | 26.6   |
| 125       | 13.4  | 11.4  | 17.0   |

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#88

Benzo(k)fluoranthene

Concen: 2.53 ng m

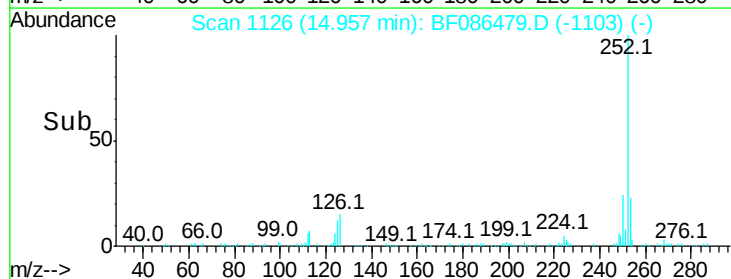
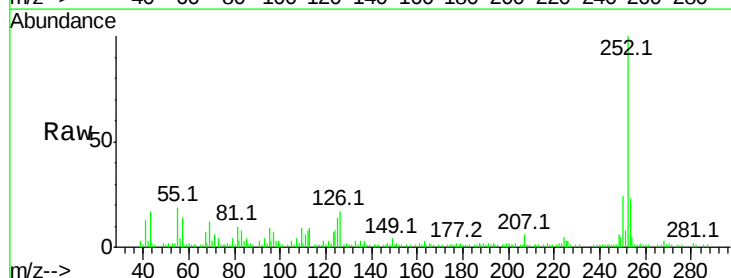
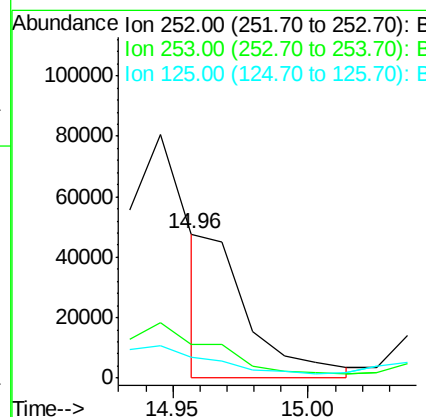
RT: 14.96 min Scan# 1126

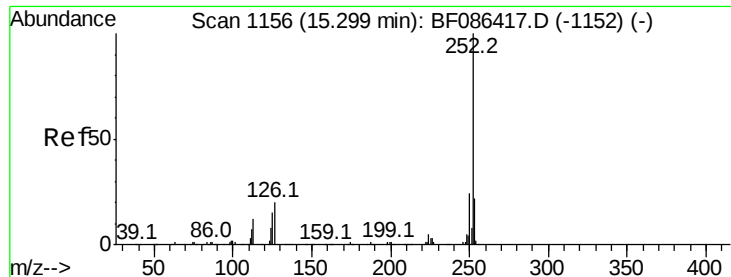
Delta R.T. -0.03 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 52207 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 17.8  | 26.6  |
| 125       | 14.3  | 9.1   | 13.7# |





#89

Benzo(a)pyrene

Concen: 4.90 ng

RT: 15.28 min Scan# 1154

Delta R.T. -0.02 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

Instrument :

BNA\_F

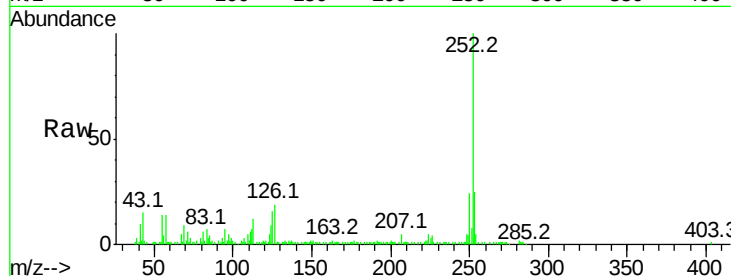
ClientSampleId :

26WARD-2A-CS-9(0-6FTBGS)

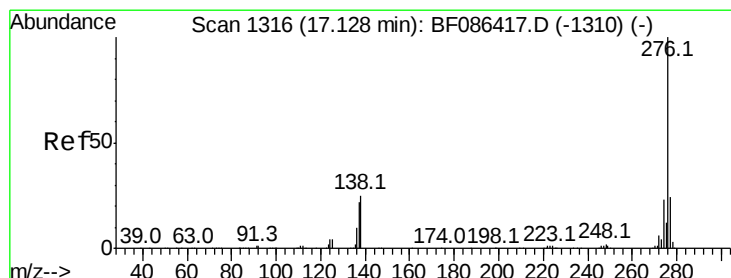
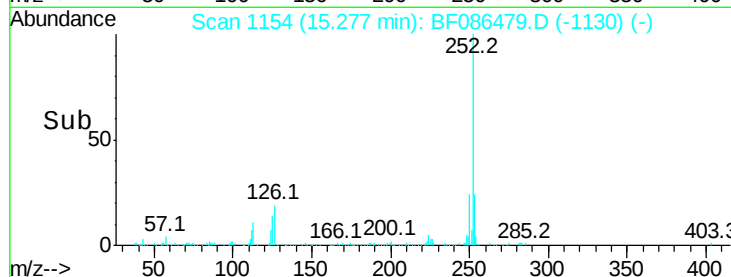
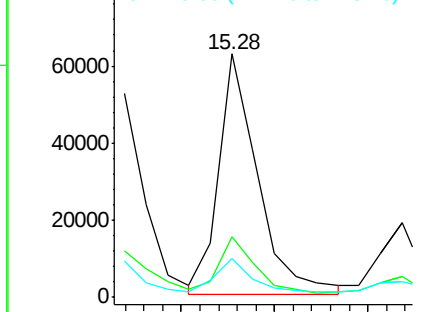
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 91477 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.6  | 17.2  | 25.8  |
| 125       | 15.8  | 9.0   | 13.6  |

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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: 3.21 ng

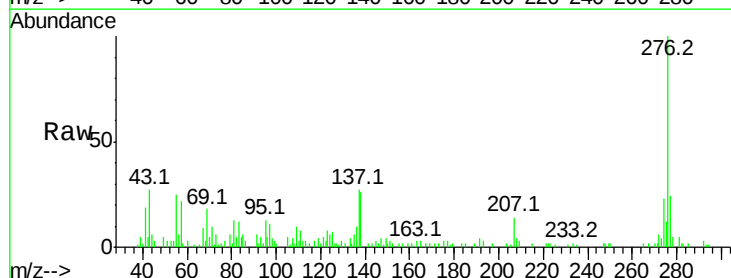
RT: 17.08 min Scan# 1312

Delta R.T. -0.05 min

Lab File: BF086479.D

Acq: 28 Apr 2016 22:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 49175 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.5  | 19.6  | 29.4  |
| 138       | 26.2  | 23.6  | 35.4  |



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

