

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052516\  
 Data File : BF087397.D  
 Acq On : 26 May 2016 5:53  
 Operator : UM/SJ  
 Sample : H3220-06  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-35-COMP

Quant Time: May 26 08:35:47 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 25 16:26:52 2016  
 Response via : Initial Calibration

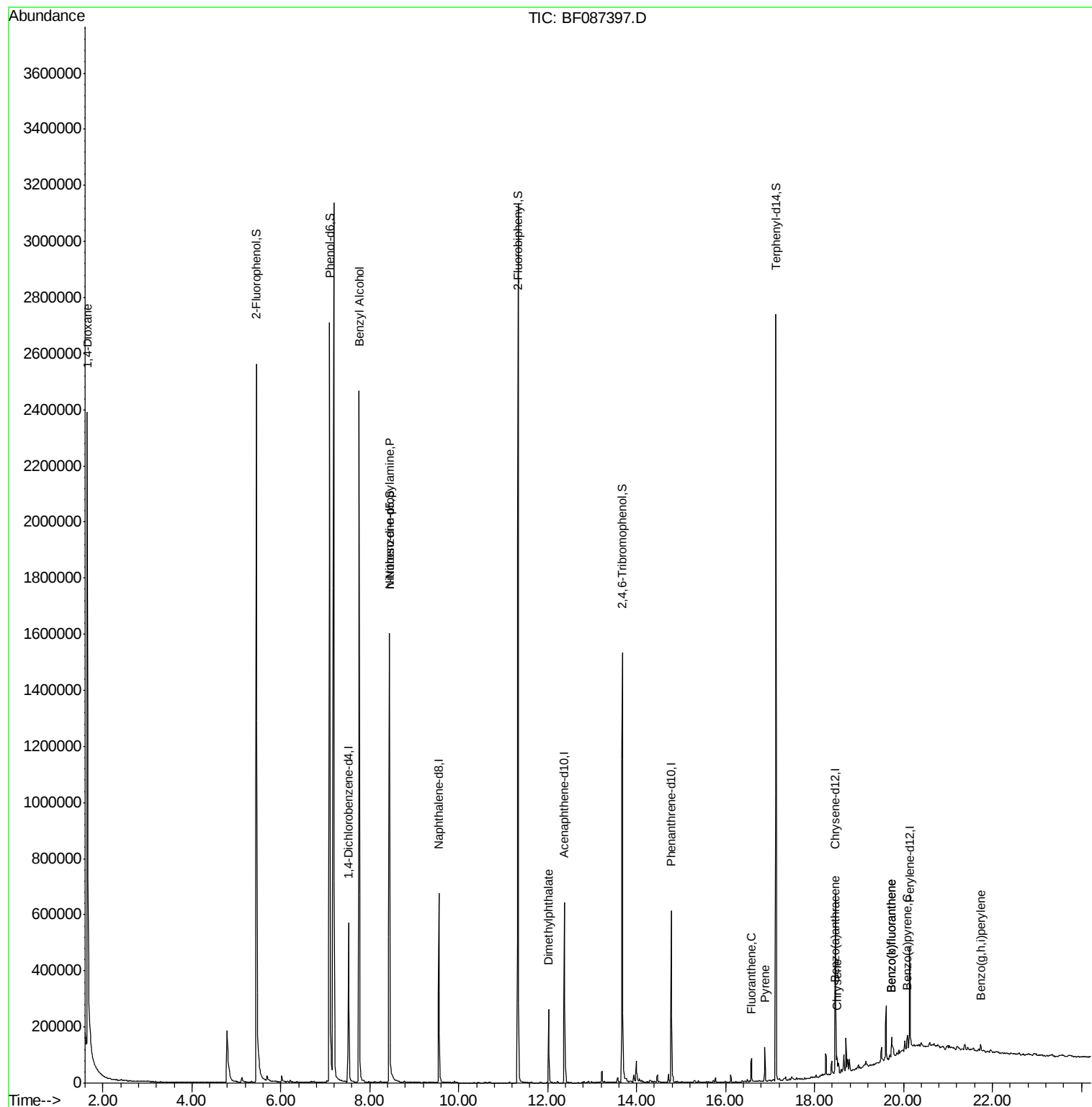
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.52  | 152  | 102108   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.55  | 136  | 397145   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 12.38 | 164  | 167562   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 14.78 | 188  | 283903   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 18.47 | 240  | 234202   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 20.14 | 264  | 161094   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 945365   | 162.69 | ng    | 0.03     |
| 7) Phenol-d6                   | 7.10  | 99   | 1226561  | 156.21 | ng    | 0.02     |
| 23) Nitrobenzene-d5            | 8.44  | 82   | 866108   | 109.91 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 13.68 | 330  | 229643   | 142.62 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 11.34 | 172  | 1281714  | 107.84 | ng    | 0.00     |
| 78) Terphenyl-d14              | 17.13 | 244  | 972752   | 88.30  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 1.64  | 88   | 80009    | 26.09  | ng    | # 22     |
| 15) Benzyl Alcohol             | 7.76  | 79   | 15300    | 2.67   | ng    | # 43     |
| 19) n-Nitroso-di-n-propylamine | 8.44  | 70   | 119083   | 20.34  | ng    | # 78     |
| 49) Dimethylphthalate          | 12.02 | 163  | 128720   | 9.59   | ng    | 99       |
| 74) Fluoranthene               | 16.58 | 202  | 51305    | 3.25   | ng    | 91       |
| 77) Pyrene                     | 16.88 | 202  | 51382    | 3.05   | ng    | 97       |
| 80) Benzo(a)anthracene         | 18.46 | 228  | 32665    | 2.45   | ng    | 94       |
| 82) Chrysene                   | 18.50 | 228  | 30045    | 2.27   | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 19.74 | 252  | 52115    | 5.08   | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 19.74 | 252  | 52115    | 5.90   | ng    | 98       |
| 89) Benzo(a)pyrene             | 20.09 | 252  | 25620    | 2.89   | ng    | 95       |
| 91) Benzo(g,h,i)perylene       | 21.74 | 276  | 16271    | 2.18   | ng    | 94       |

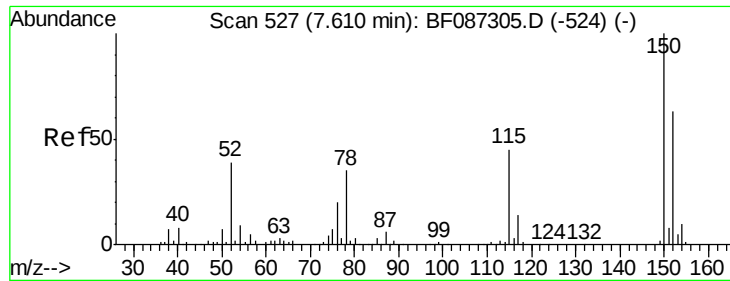
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052516\  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.52 min Scan# 519

Delta R.T. 0.00 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

BNA\_F

ClientSampleId :

SB-35-COMP

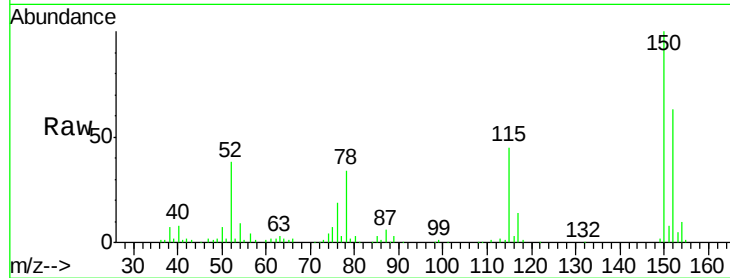
Tgt Ion:152 Resp: 102108

Ion Ratio Lower Upper

152 100

150 158.0 125.8 188.6

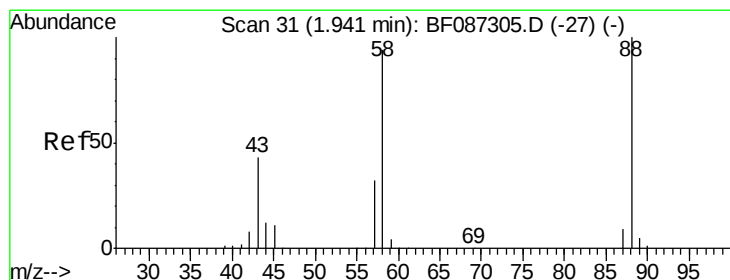
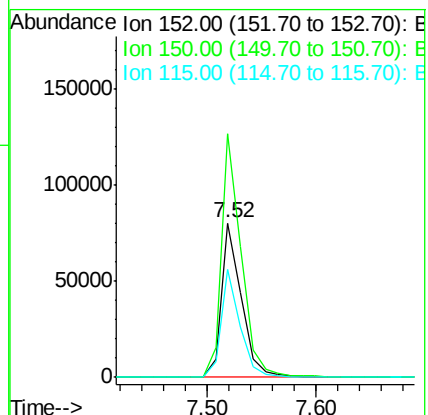
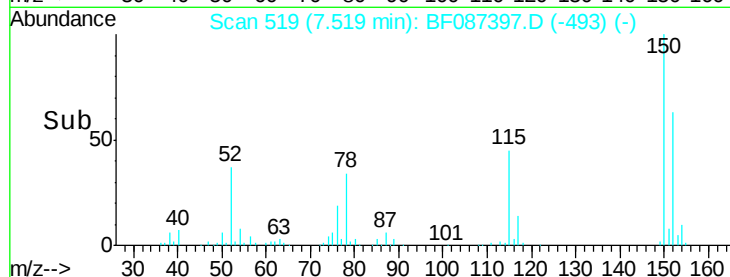
115 70.3 51.5 77.3



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



#2

1,4-Dioxane

Concen: 26.09 ng

RT: 1.64 min Scan# 5

Delta R.T. -0.17 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

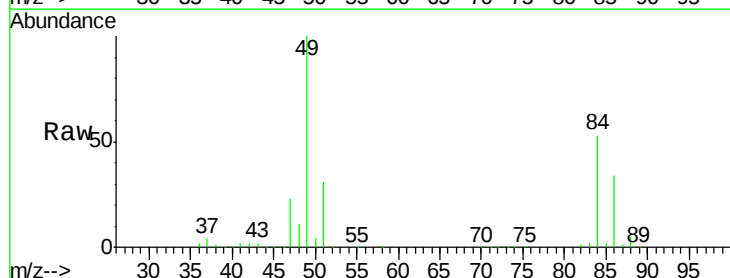
Tgt Ion: 88 Resp: 80009

Ion Ratio Lower Upper

88 100

58 0.0 59.6 89.4#

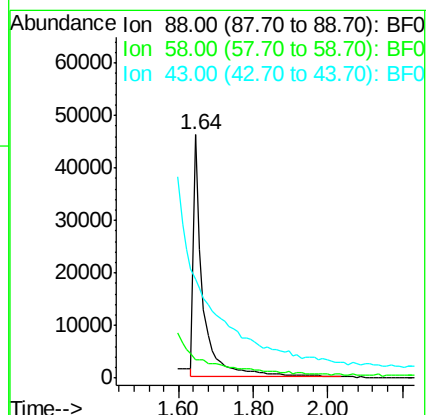
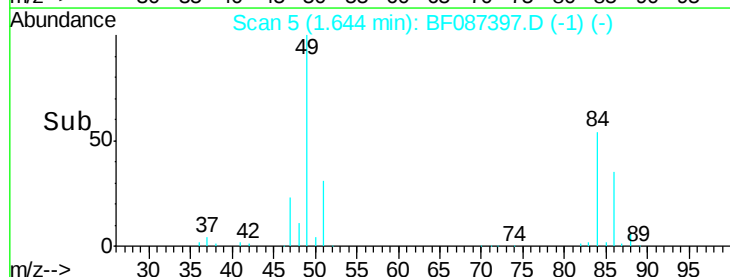
43 0.0 21.8 32.6#



Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 162.69 ng

RT: 5.45 min Scan# 338

Delta R.T. 0.03 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

BNA\_F

ClientSampleId :

SB-35-COMP

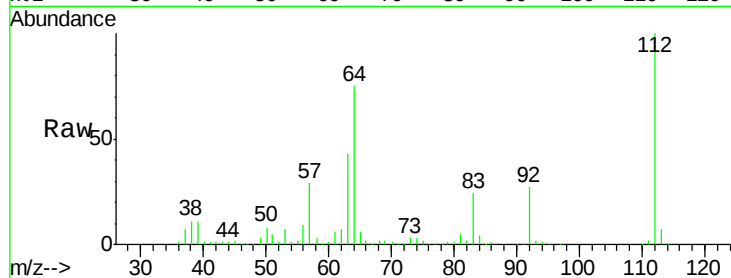
Tgt Ion: 112 Resp: 945365

Ion Ratio Lower Upper

112 100

64 75.1 52.1 78.1

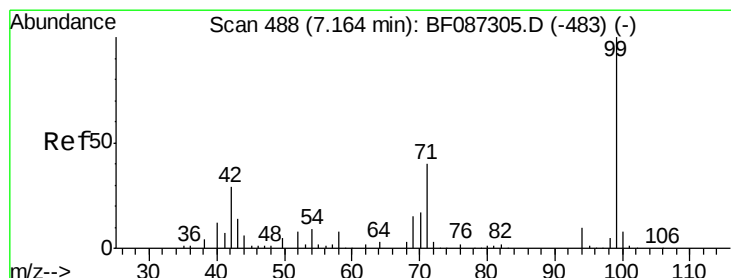
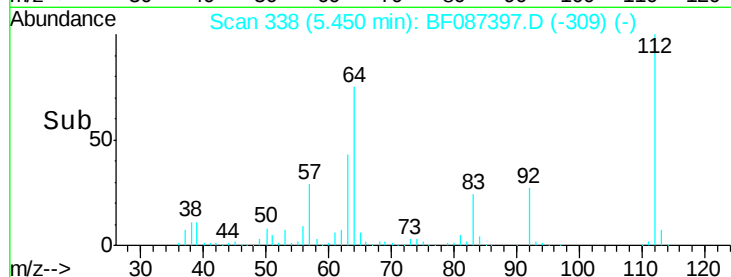
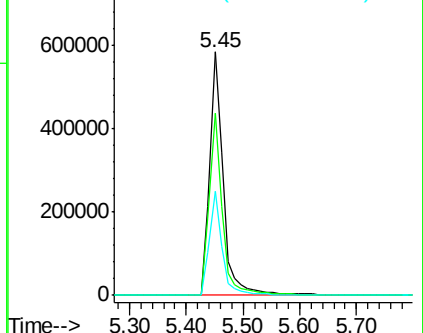
63 42.7 25.7 38.5#



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: 156.21 ng

RT: 7.10 min Scan# 482

Delta R.T. 0.02 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

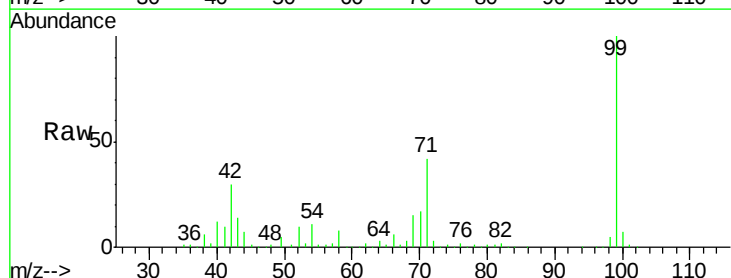
Tgt Ion: 99 Resp: 1226561

Ion Ratio Lower Upper

99 100

42 30.2 13.6 20.4#

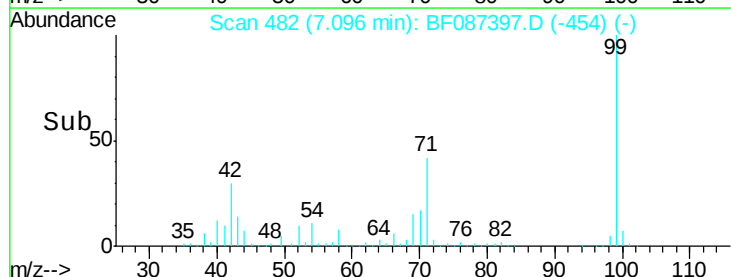
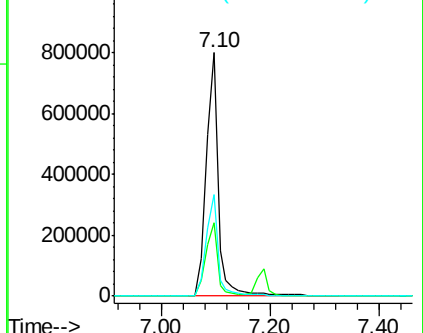
71 41.6 24.6 36.8#

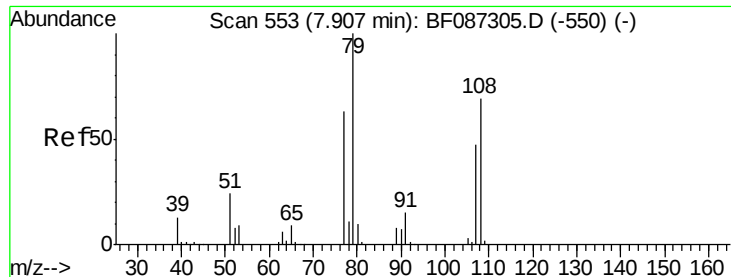


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#15

Benzyl Alcohol

Concen: 2.67 ng

RT: 7.76 min Scan# 540

Delta R.T. -0.06 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

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SB-35-COMP

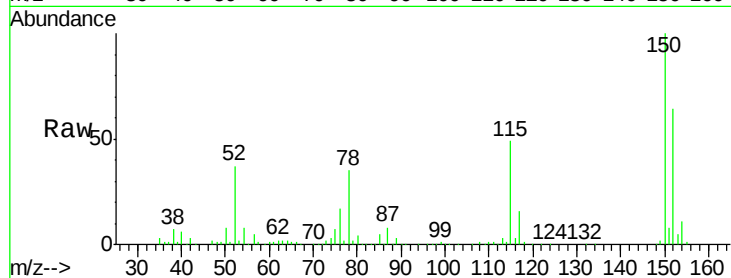
Tgt Ion: 79 Resp: 15300

Ion Ratio Lower Upper

79 100

108 31.8 68.4 102.6#

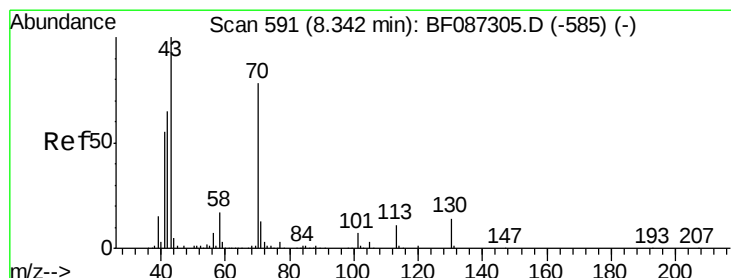
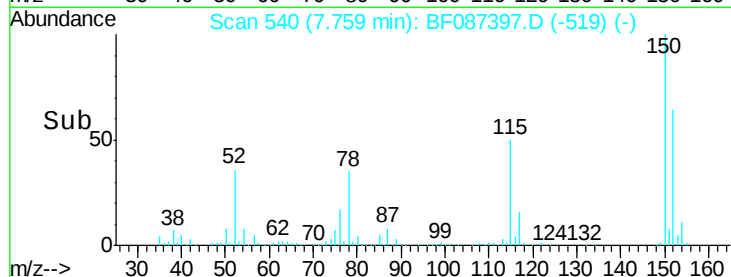
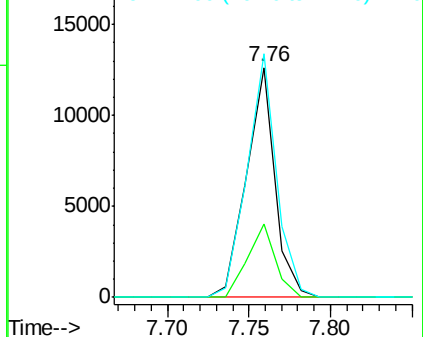
77 106.0 50.6 76.0#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 20.34 ng

RT: 8.44 min Scan# 600

Delta R.T. 0.19 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Tgt Ion: 70 Resp: 119083

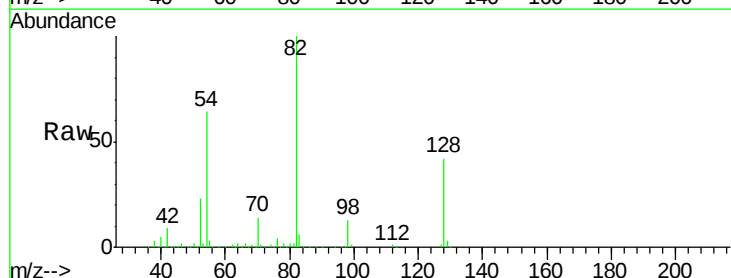
Ion Ratio Lower Upper

70 100

42 62.5 43.1 64.7

101 0.0 8.1 12.1#

130 1.8 18.6 28.0#

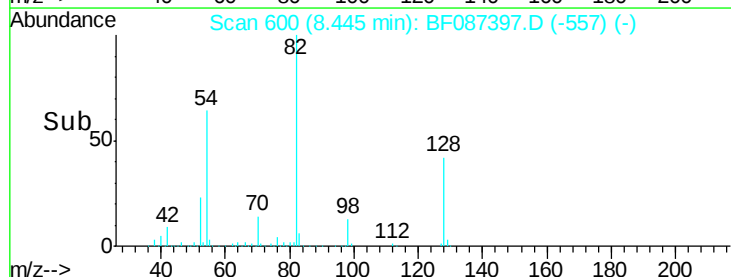
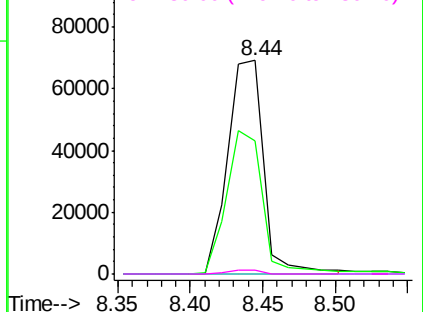


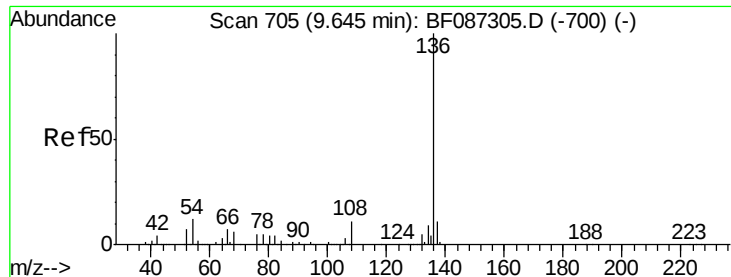
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

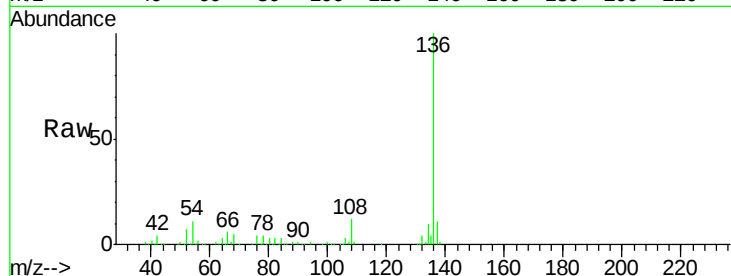




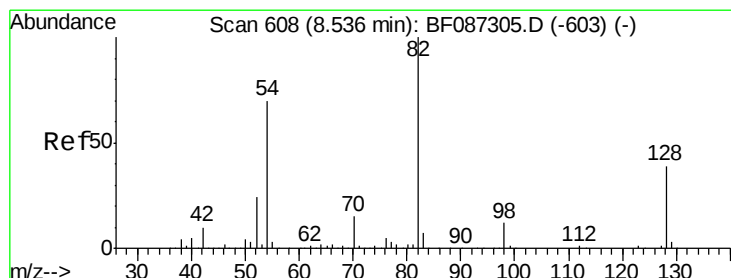
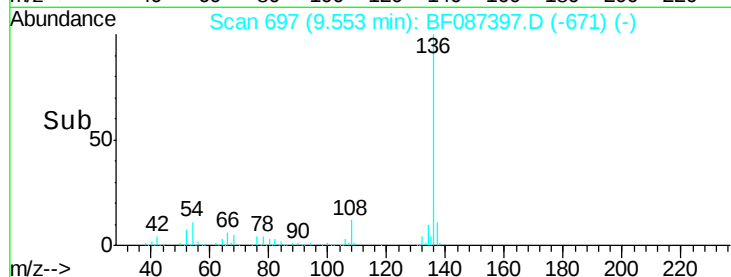
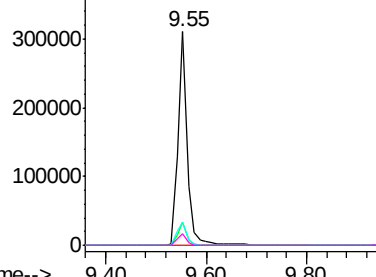
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.55 min Scan# 697  
Delta R.T. 0.00 min  
Lab File: BF087397.D  
Acq: 26 May 2016 5:53

Instrument :  
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SB-35-COMP

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 397145 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.8   | 13.2   |
| 54       | 10.7  | 5.0   | 7.4#   |
| 68       | 5.2   | 4.4   | 6.6    |

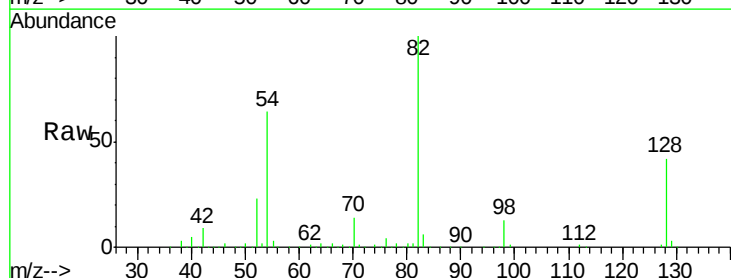


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

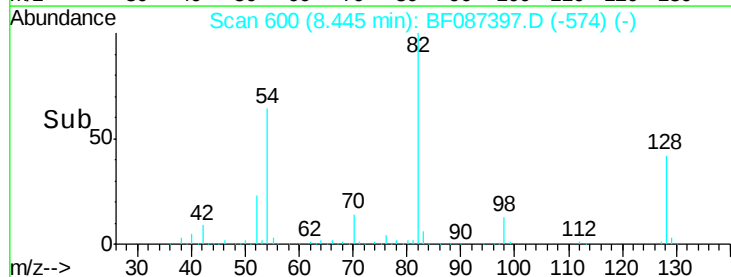
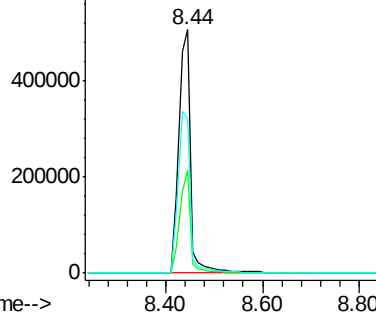


#23  
Nitrobenzene-d5  
Concen: 109.91 ng  
RT: 8.44 min Scan# 600  
Delta R.T. 0.00 min  
Lab File: BF087397.D  
Acq: 26 May 2016 5:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 866108 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.3  | 40.6  | 61.0   |
| 54       | 63.9  | 38.1  | 57.1#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

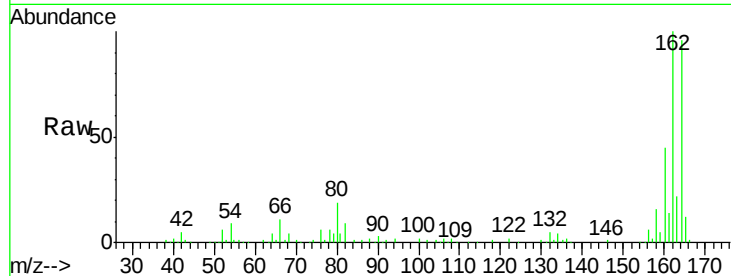




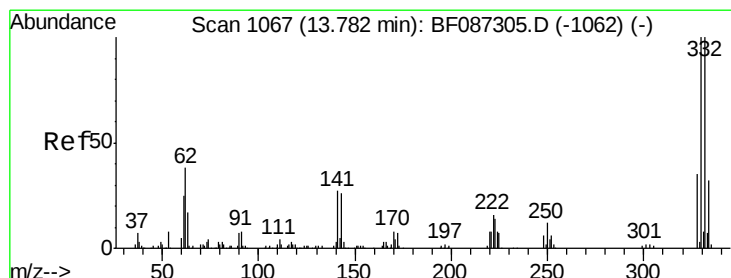
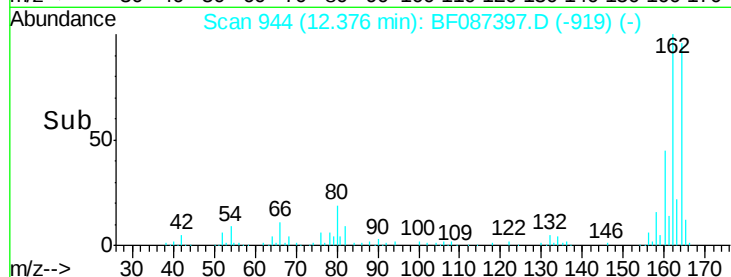
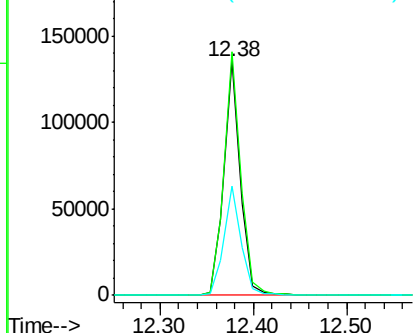
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.38 min Scan# 944  
 Delta R.T. -0.01 min  
 Lab File: BF087397.D  
 Acq: 26 May 2016 5:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-35-COMP

Tgt Ion:164 Resp: 167562  
 Ion Ratio Lower Upper  
 164 100  
 162 104.0 82.8 124.2  
 160 46.8 36.9 55.3

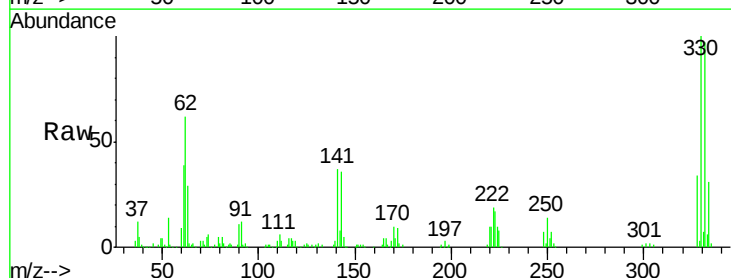


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

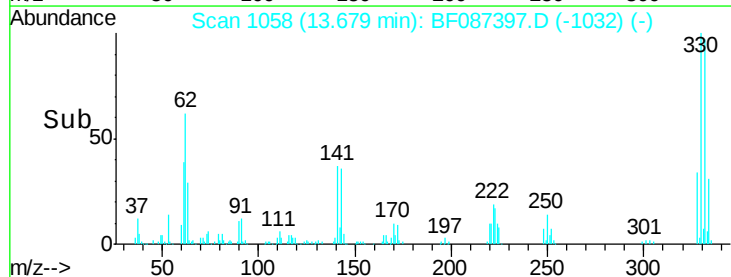
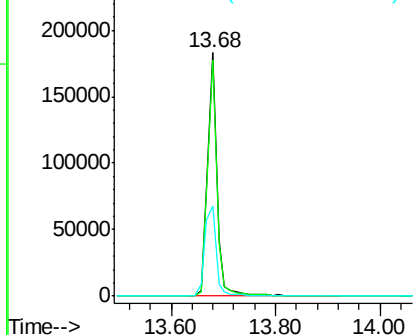


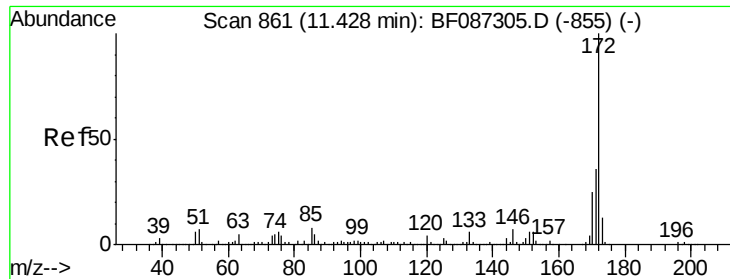
#41  
 2,4,6-Tribromophenol  
 Concen: 142.62 ng  
 RT: 13.68 min Scan# 1058  
 Delta R.T. 0.00 min  
 Lab File: BF087397.D  
 Acq: 26 May 2016 5:53

Tgt Ion:330 Resp: 229643  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 79.0 118.4  
 141 45.3 31.2 46.8



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

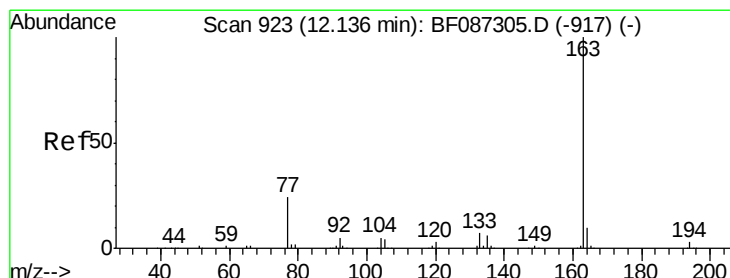
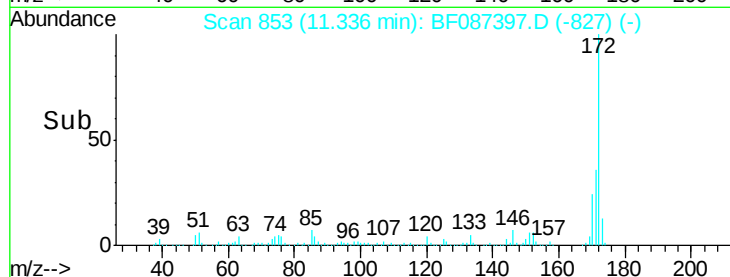
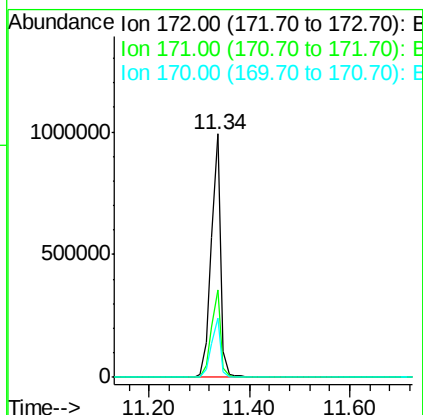
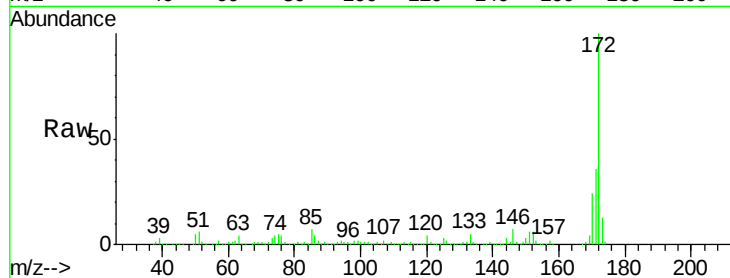




#44  
 2-Fluorobiphenyl  
 Concen: 107.84 ng  
 RT: 11.34 min Scan# 853  
 Delta R.T. 0.00 min  
 Lab File: BF087397.D  
 Acq: 26 May 2016 5:53

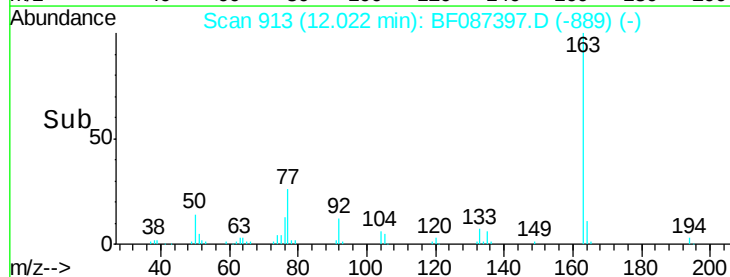
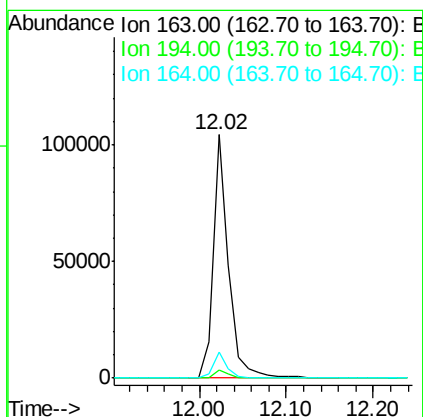
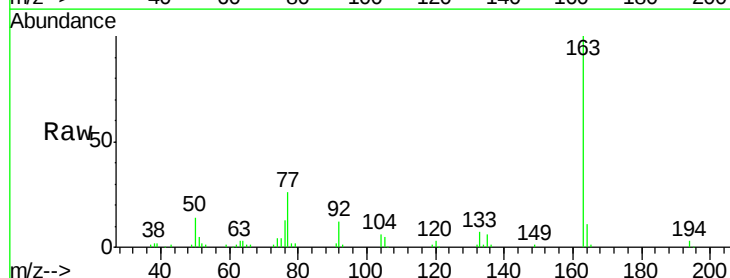
Instrument :  
 BNA\_F  
 ClientSampleId :  
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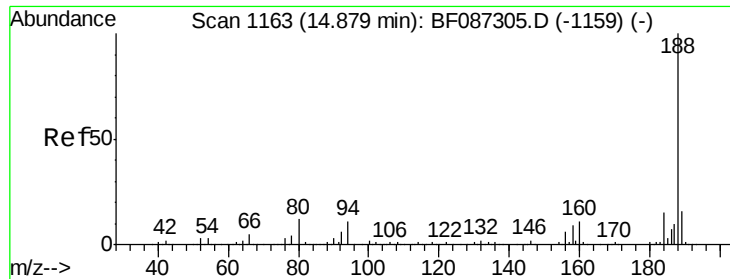
Tgt Ion:172 Resp: 1281714  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.0 43.6  
 170 24.2 19.8 29.8



#49  
 Dimethylphthalate  
 Concen: 9.59 ng  
 RT: 12.02 min Scan# 913  
 Delta R.T. -0.02 min  
 Lab File: BF087397.D  
 Acq: 26 May 2016 5:53

Tgt Ion:163 Resp: 128720  
 Ion Ratio Lower Upper  
 163 100  
 194 3.2 2.6 4.0  
 164 10.6 8.2 12.4

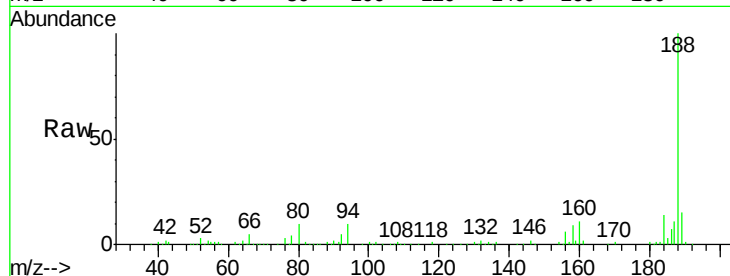




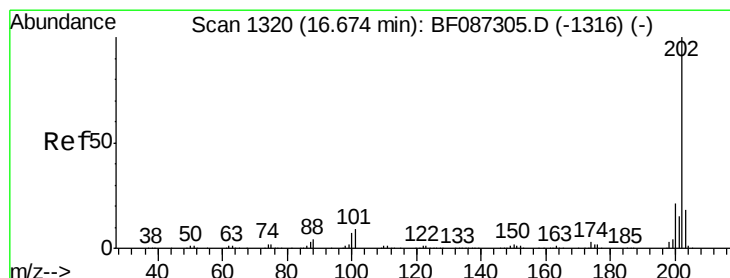
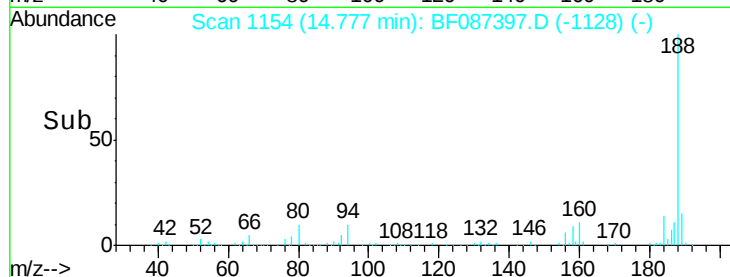
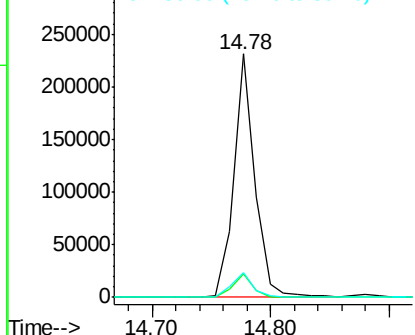
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.78 min Scan# 1154  
Delta R.T. 0.00 min  
Lab File: BF087397.D  
Acq: 26 May 2016 5:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-35-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 283903 |       |       |
| 94      | 9.7   |        | 6.8   | 10.2  |
| 80      | 10.3  |        | 7.1   | 10.7  |

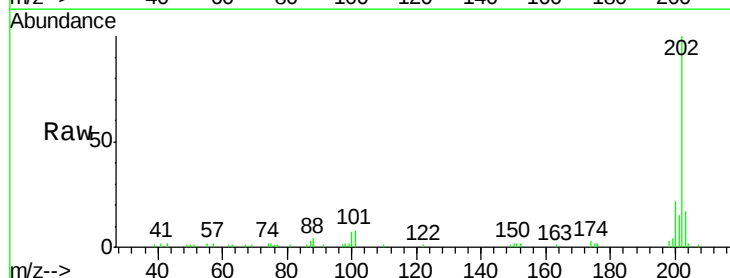


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

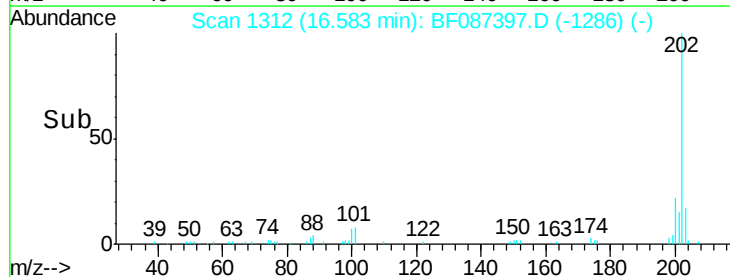
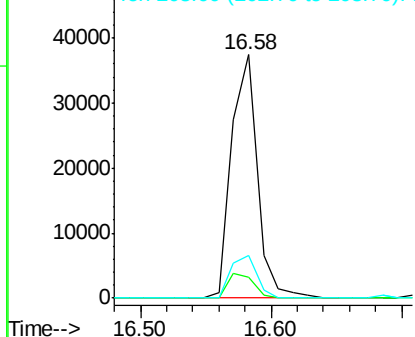


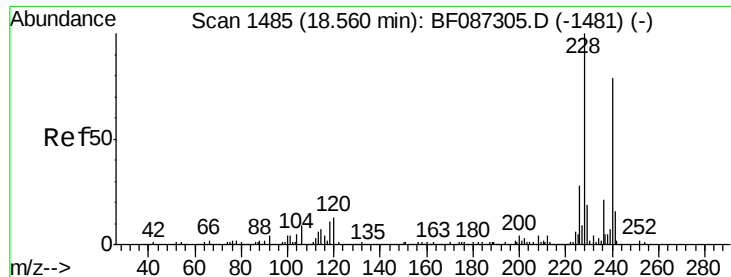
#74  
Fluoranthene  
Concen: 3.25 ng  
RT: 16.58 min Scan# 1312  
Delta R.T. 0.00 min  
Lab File: BF087397.D  
Acq: 26 May 2016 5:53

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 51305 |       |       |
| 101     | 8.4   |       | 0.0   | 35.4  |
| 203     | 17.3  |       | 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: 18.47 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

BNA\_F

ClientSampleId :

SB-35-COMP

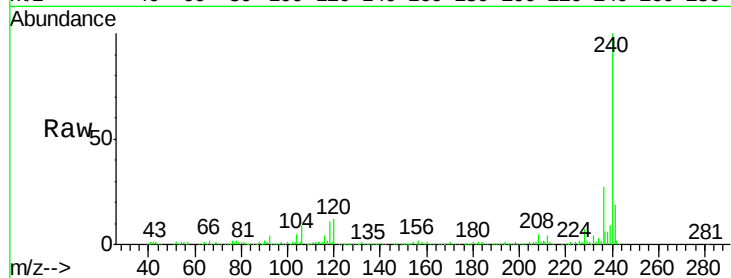
Tgt Ion:240 Resp: 234202

Ion Ratio Lower Upper

240 100

120 12.1 11.2 16.8

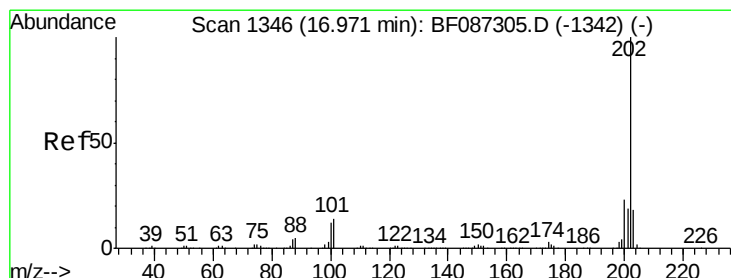
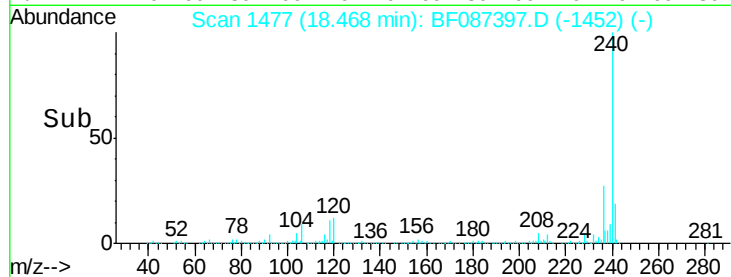
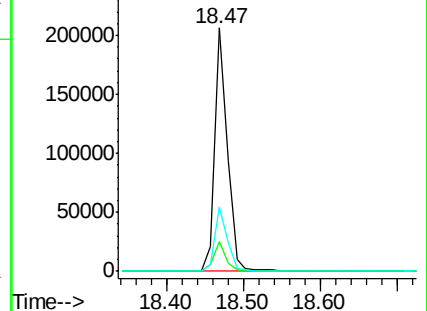
236 26.7 21.2 31.8



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: 3.05 ng

RT: 16.88 min Scan# 1338

Delta R.T. 0.00 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

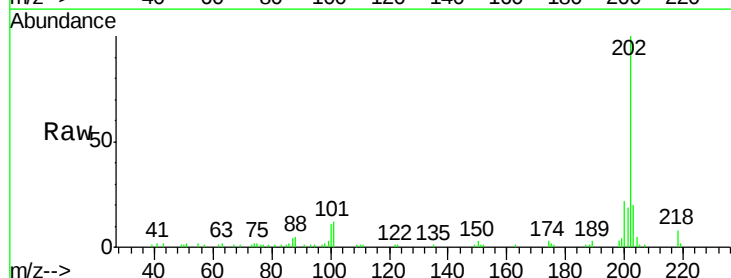
Tgt Ion:202 Resp: 51382

Ion Ratio Lower Upper

202 100

200 22.3 17.7 26.5

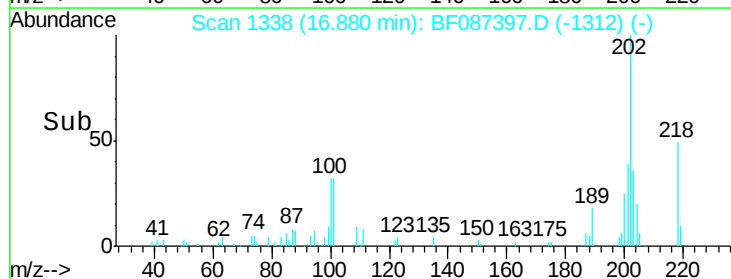
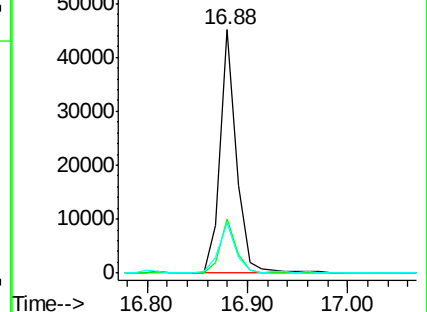
203 20.5 14.2 21.4

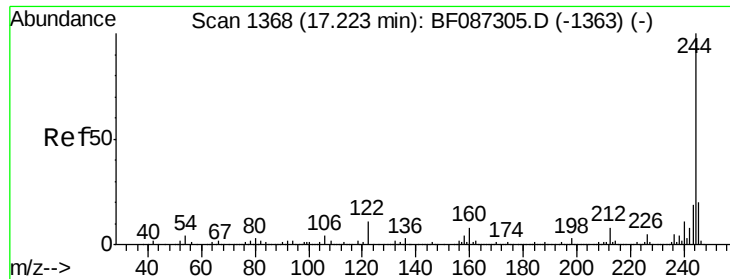


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 88.30 ng

RT: 17.13 min Scan# 1360

Delta R.T. 0.00 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

BNA\_F

ClientSampleId :

SB-35-COMP

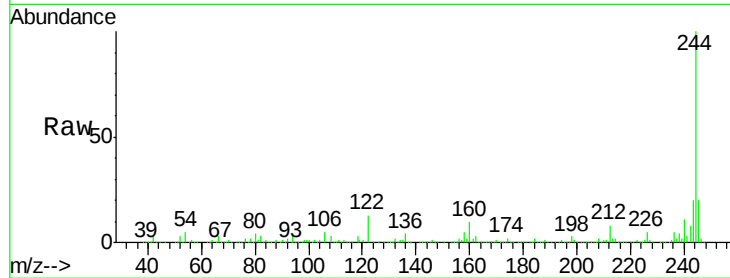
Tgt Ion:244 Resp: 972752

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

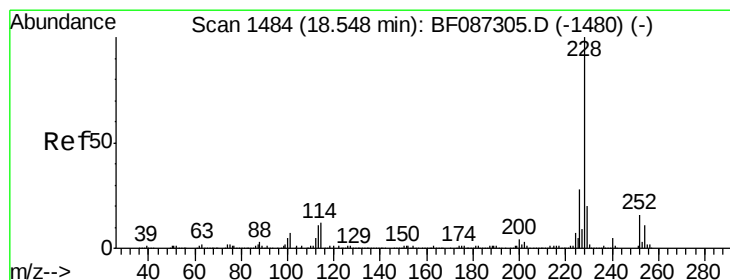
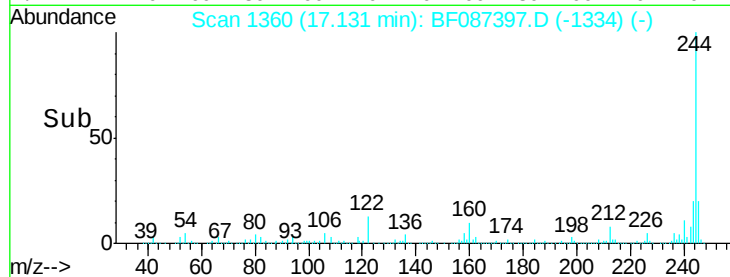
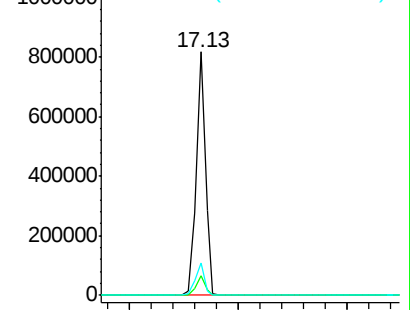
122 13.4 12.0 18.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.45 ng

RT: 18.46 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

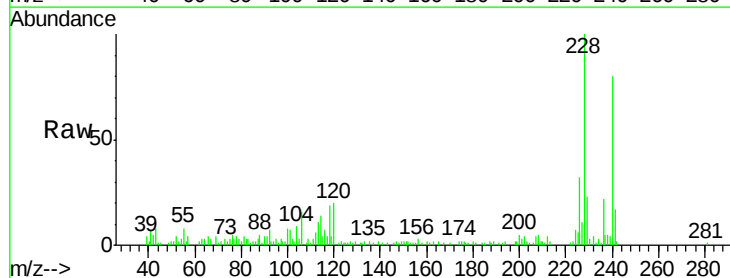
Tgt Ion:228 Resp: 32665

Ion Ratio Lower Upper

228 100

226 32.1 22.5 33.7

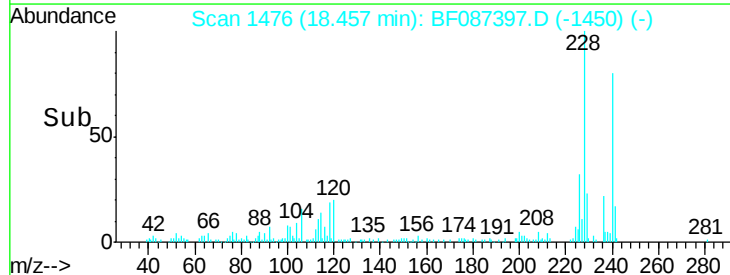
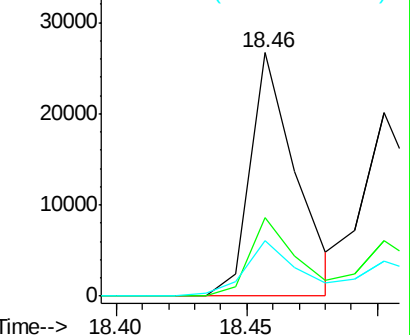
229 22.9 16.6 25.0

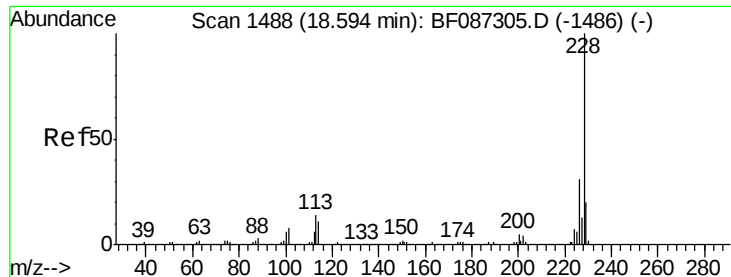


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.27 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

BNA\_F

ClientSampleId :

SB-35-COMP

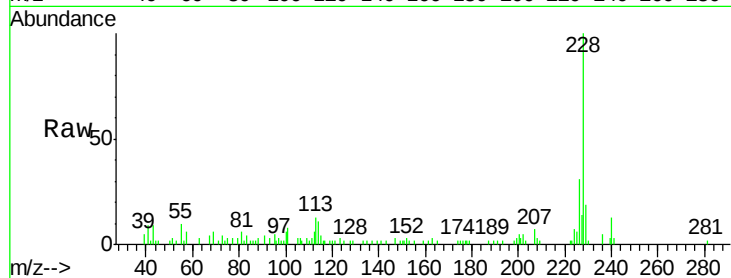
Tgt Ion:228 Resp: 30045

Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

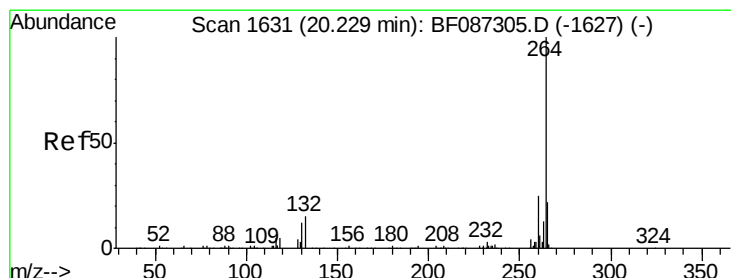
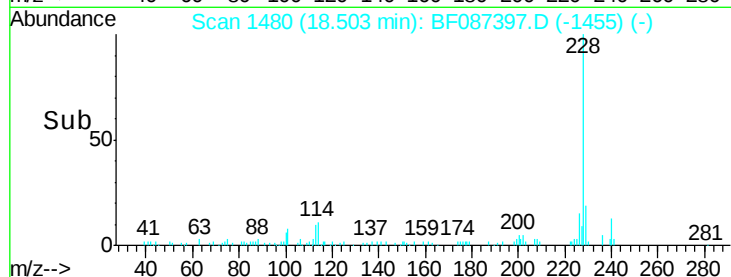
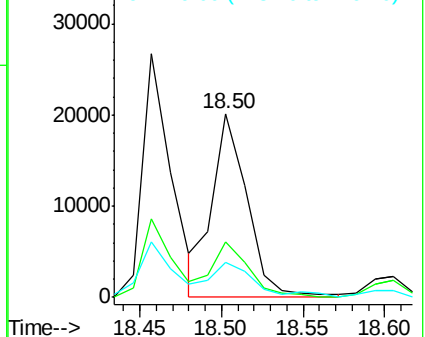
229 18.9 15.8 23.8



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

RT: 20.14 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

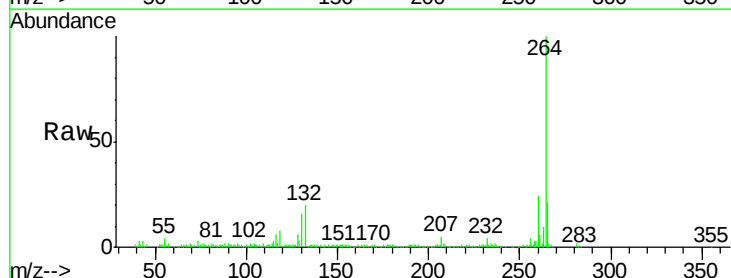
Tgt Ion:264 Resp: 161094

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

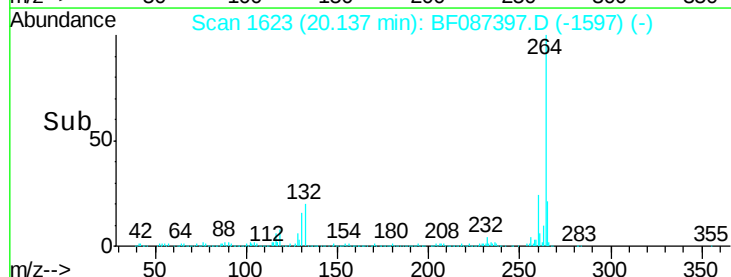
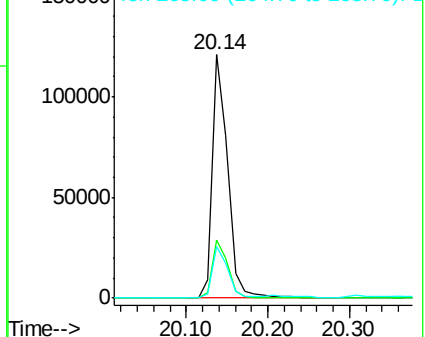
265 21.1 17.3 25.9

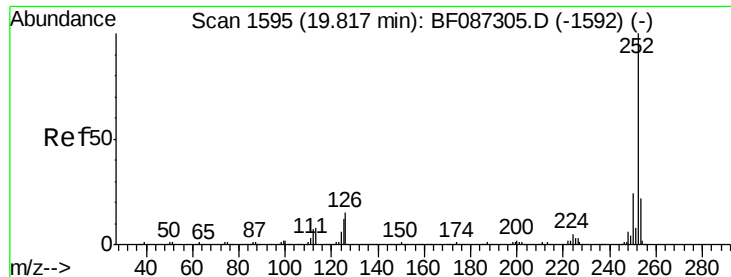


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 5.08 ng

RT: 19.74 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

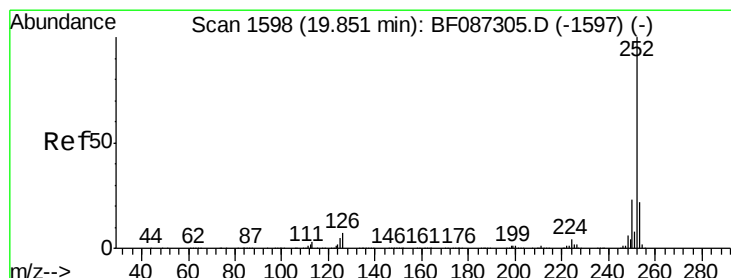
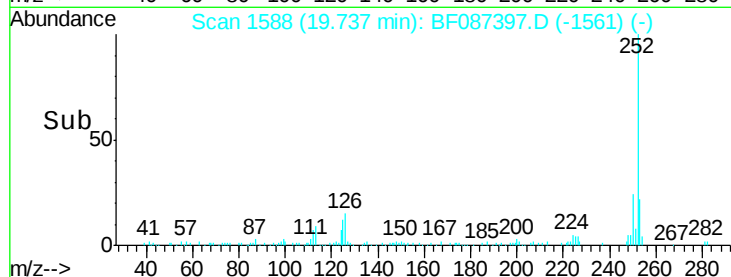
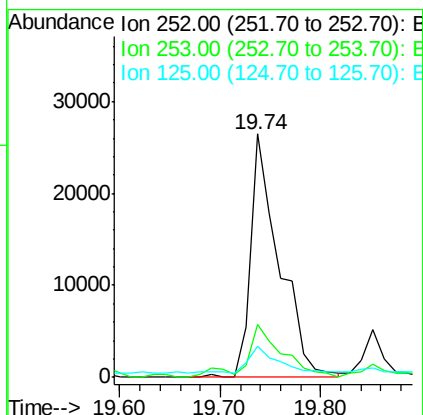
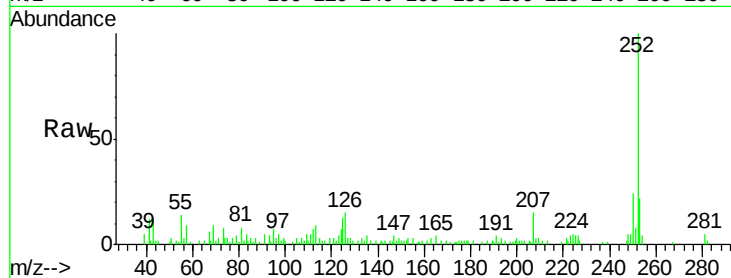
Instrument :

BNA\_F

ClientSampleId :

SB-35-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 52115 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.0  | 17.8  | 26.6  |
| 125       | 12.9  | 11.4  | 17.0  |



#88

Benzo(k)fluoranthene

Concen: 5.90 ng

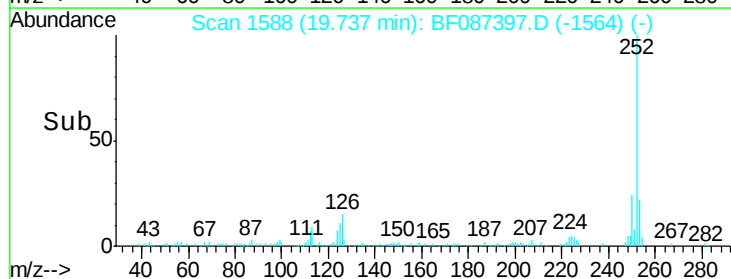
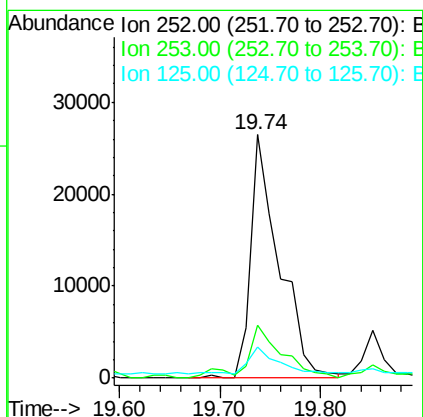
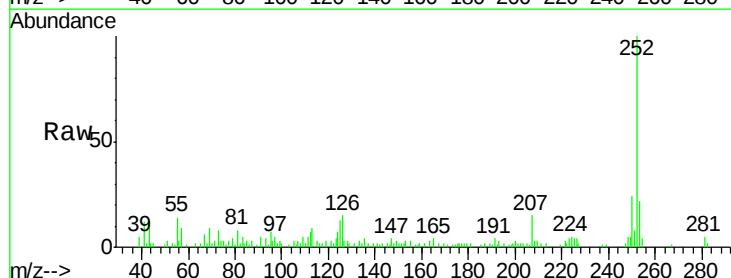
RT: 19.74 min Scan# 1588

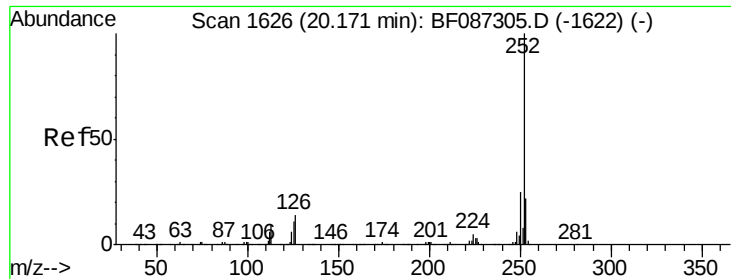
Delta R.T. -0.02 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 52115 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.0  | 17.8  | 26.6  |
| 125       | 12.9  | 9.1   | 13.7  |





#89

Benzo(a)pyrene

Concen: 2.89 ng

RT: 20.09 min Scan# 1619

Delta R.T. 0.01 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

Instrument :

BNA\_F

ClientSampled :

SB-35-COMP

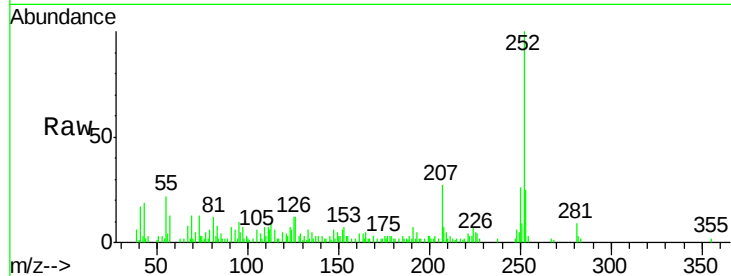
Tgt Ion: 252 Resp: 25620

Ion Ratio Lower Upper

252 100

253 24.5 17.2 25.8

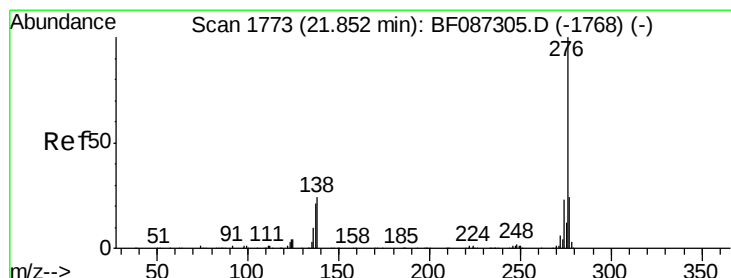
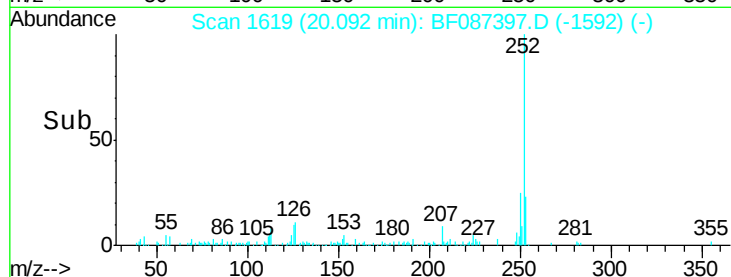
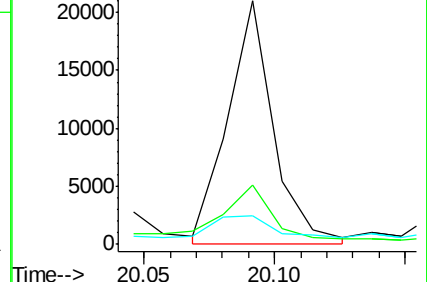
125 12.0 9.0 13.6



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: 2.18 ng

RT: 21.74 min Scan# 1763

Delta R.T. 0.02 min

Lab File: BF087397.D

Acq: 26 May 2016 5:53

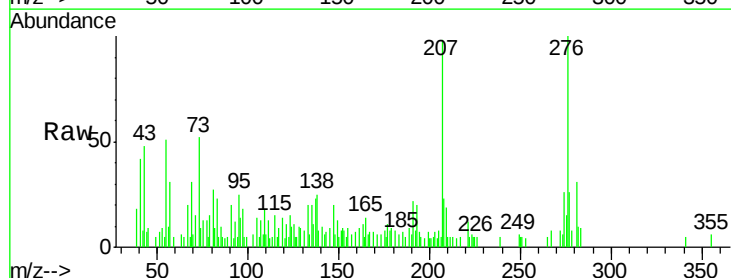
Tgt Ion: 276 Resp: 16271

Ion Ratio Lower Upper

276 100

277 26.2 19.6 29.4

138 25.4 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

