

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090617\  
 Data File : BF098293.D  
 Acq On : 7 Sep 2017 00:51  
 Operator : SJ/JU  
 Sample : I5075-10 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 292

Manual Integrations  
 APPROVED

Sohil  
 9/7/2017 5:44:41 PM

Quant Time: Sep 07 07:04:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 116684   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.98  | 136  | 435367   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.73  | 164  | 165765   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 269974   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.85 | 240  | 242332   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.26 | 264  | 168122   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 396351   | 51.67 | ng    | 0.00     |
| 7) Phenol-d6                | 6.34  | 99   | 524040   | 50.28 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 299518   | 37.37 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 64447    | 44.81 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 468626   | 41.54 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 318316   | 27.39 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 49) Dimethylphthalate       | 9.45  | 163  | 69461    | 5.733 | ng    | 99       |
| 70) Phenanthrene            | 11.24 | 178  | 69007    | 4.797 | ng    | 98       |
| 74) Fluoranthene            | 12.42 | 202  | 146755   | 9.773 | ng    | 98       |
| 77) Pyrene                  | 12.65 | 202  | 139567   | 7.042 | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.84 | 228  | 72545    | 4.995 | ng    | 97       |
| 82) Chrysene                | 13.87 | 228  | 64770    | 4.483 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.62 | 276  | 24419    | 2.298 | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 14.86 | 252  | 68058m   | 6.422 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.88 | 252  | 25060m   | 2.517 | ng    |          |
| 89) Benzo(a)pyrene          | 15.20 | 252  | 44800    | 4.775 | ng    | # 92     |
| 91) Benzo(g,h,i)perylene    | 17.03 | 276  | 26630    | 3.342 | ng    | 95       |

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

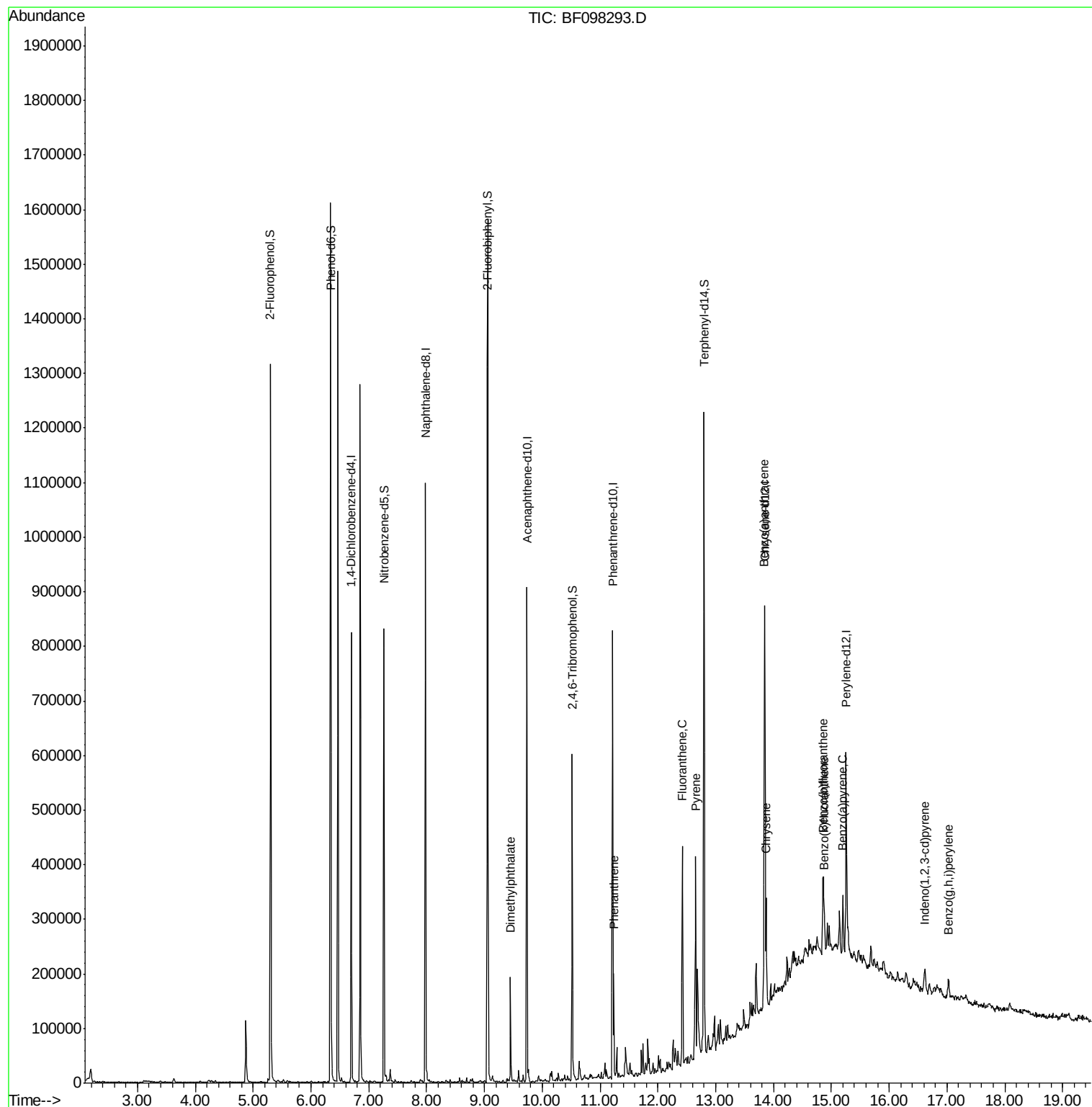
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090617\  
Data File : BF098293.D  
Acq On : 7 Sep 2017 00:51  
Operator : SJ/JU  
Sample : I5075-10 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

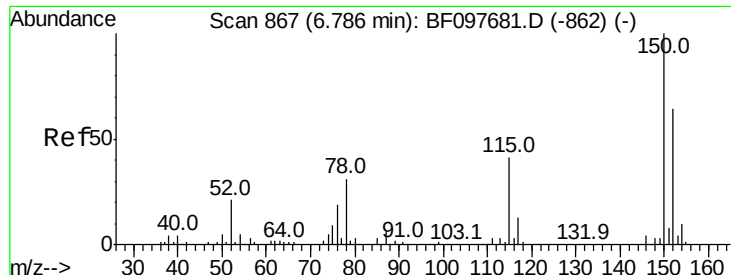
Instrument :  
BNA\_F  
ClientSampleId :  
292

Manual Integrations  
APPROVED

Sohil  
9/7/2017 5:44:41 PM

Quant Time: Sep 07 07:04:21 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 17:28:20 2017  
Response via : Initial Calibration





#1

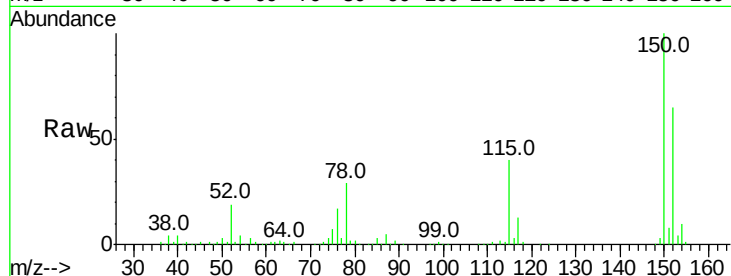
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 784  
Delta R.T. -0.01 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

Instrument :  
BNA\_F  
ClientSampled :  
292

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.2 | 126.2 | 189.2 |
| 115     | 61.5  | 52.2  | 78.2  |

Manual Integrations  
APPROVED

Sohil  
9/7/2017 5:44:41 PM

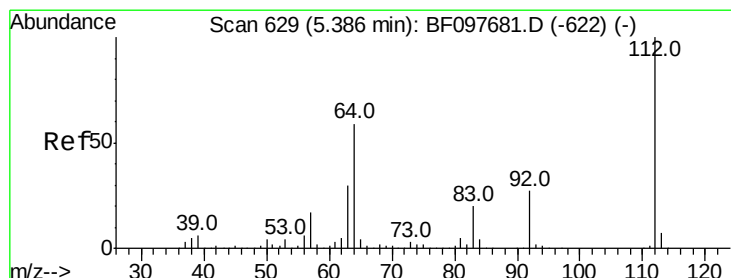
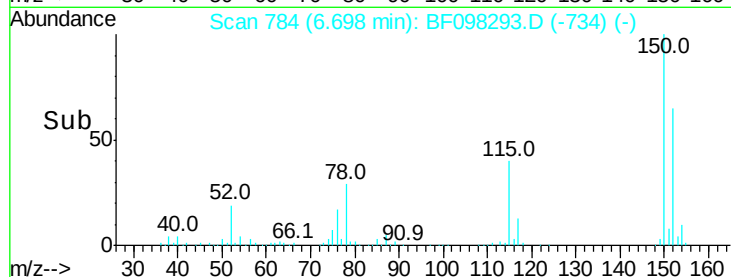
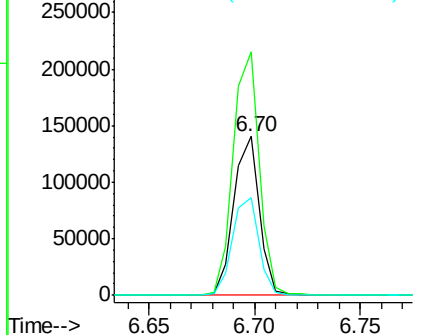


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

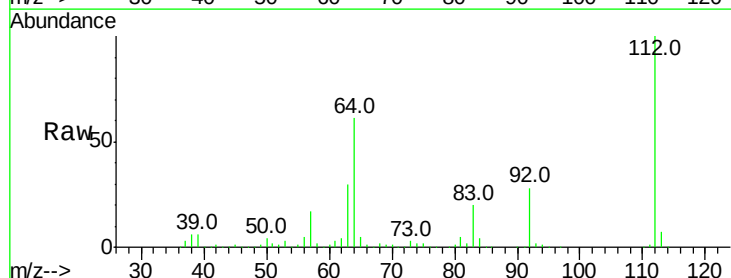
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 51.668 ng  
RT: 5.30 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.9  | 46.0  | 69.0  |
| 63      | 29.7  | 23.4  | 35.0  |

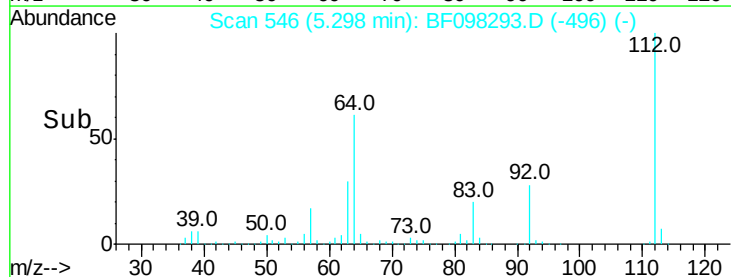
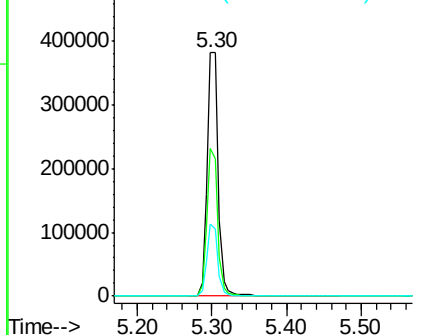


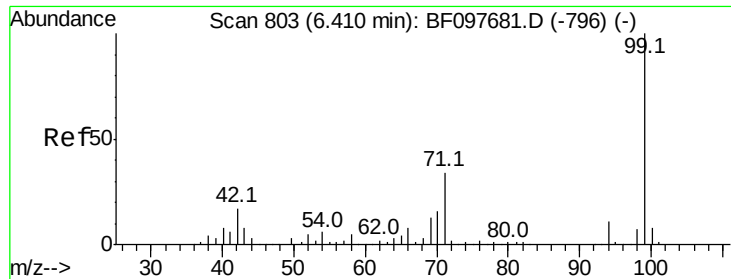
Abundance

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: 50.278 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF098293.D

Acq: 7 Sep 2017 00:51

Instrument :

BNA\_F

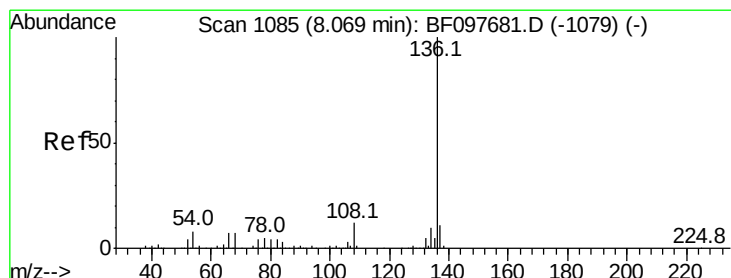
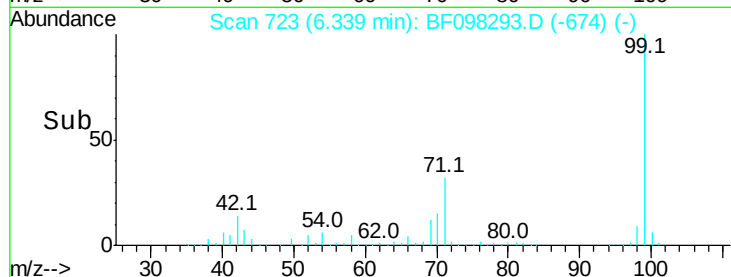
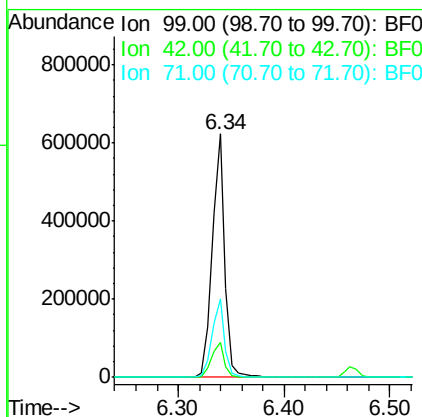
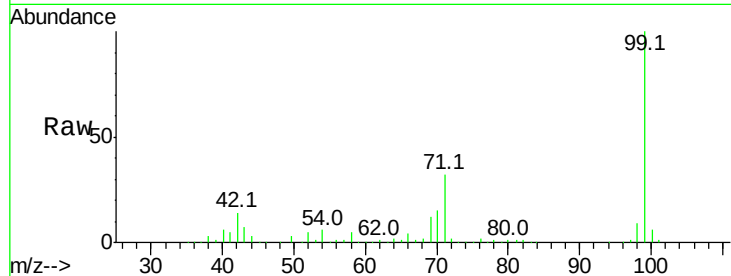
ClientSampled :

292

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 524040 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 14.3  | 13.5  | 20.3   |
| 71        | 32.0  | 24.5  | 36.7   |

Manual Integrations  
APPROVED

Sohil  
9/7/2017 5:44:41 PM



#21

Naphthalene-d8

Concen: 20.000 ng

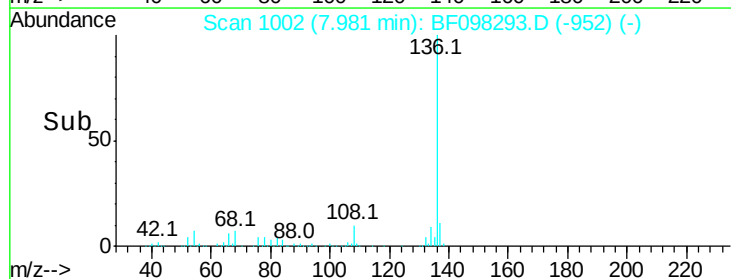
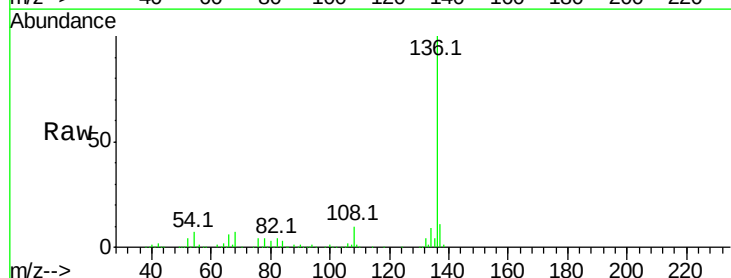
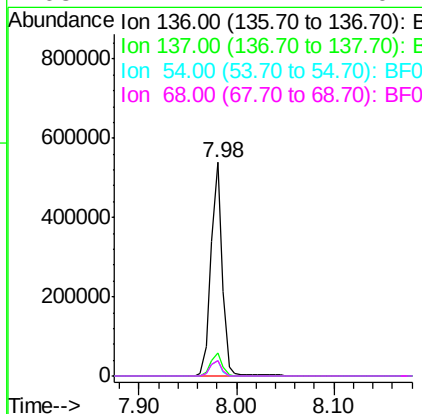
RT: 7.98 min Scan# 1002

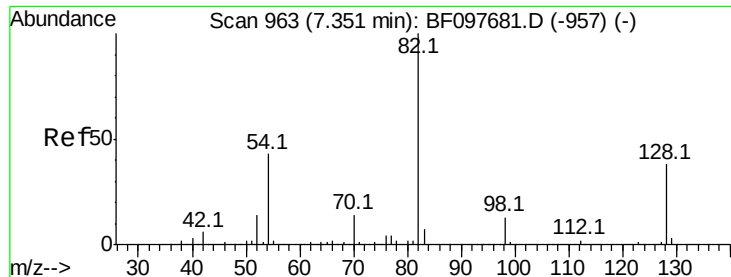
Delta R.T. -0.01 min

Lab File: BF098293.D

Acq: 7 Sep 2017 00:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 435367 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.5   | 12.7   |
| 54        | 7.3   | 4.9   | 7.3    |
| 68        | 7.2   | 4.1   | 6.1#   |





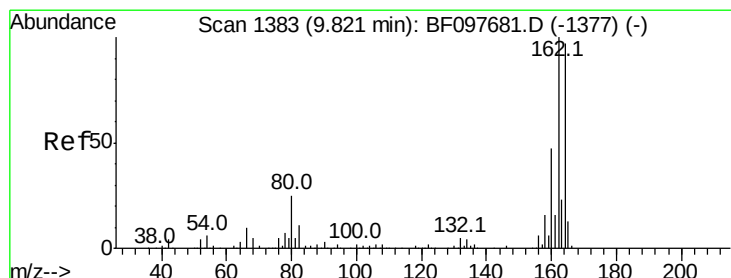
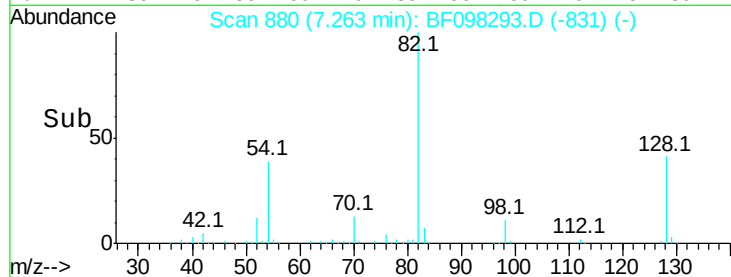
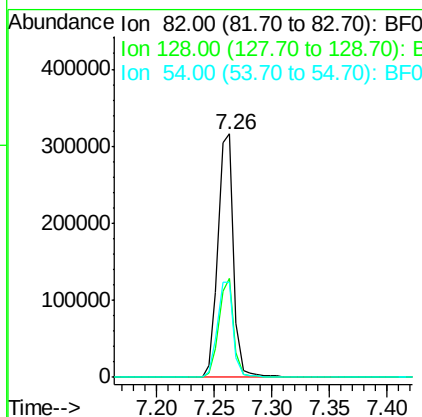
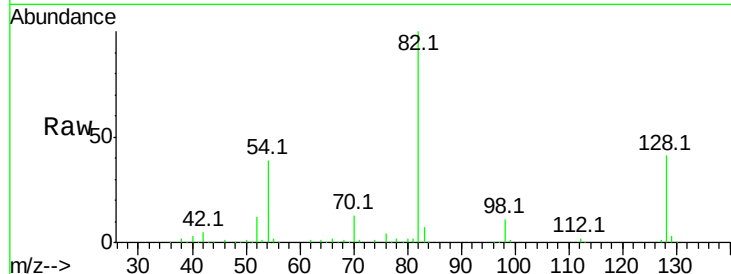
#23  
 Nitrobenzene-d5  
 Concen: 37.374 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 292

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 40.7  | 34.0 | 51.0  |       |
| 54      | 39.3  | 42.2 | 63.2  |       |

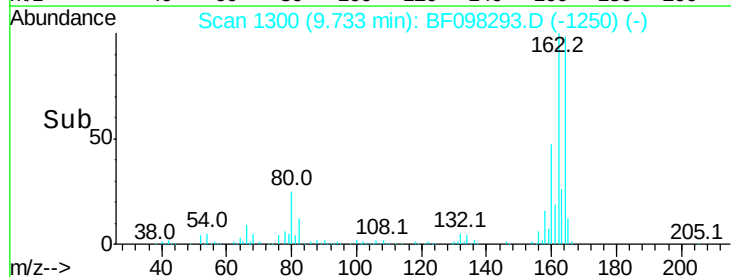
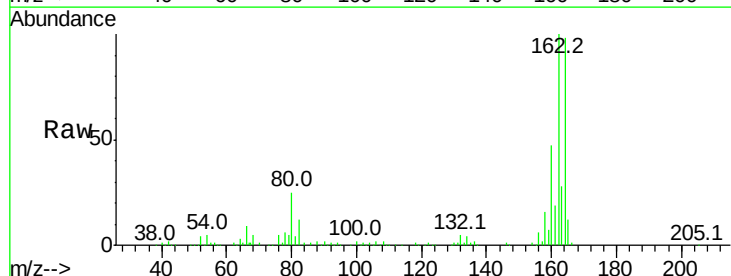
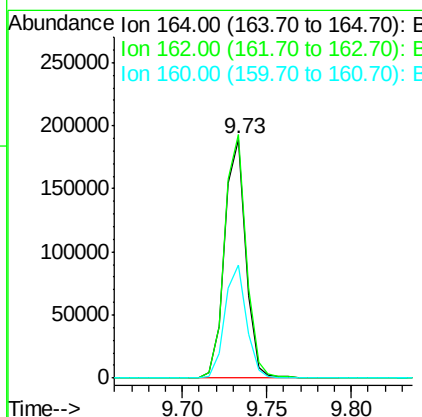
Manual Integrations  
 APPROVED

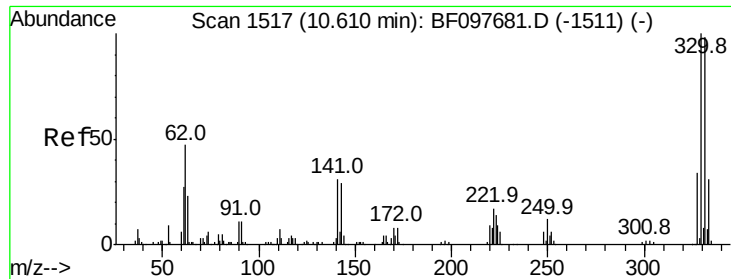
Sohil  
 9/7/2017 5:44:41 PM



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.0 | 82.6 | 123.8 |       |
| 160     | 47.5  | 36.2 | 54.2  |       |





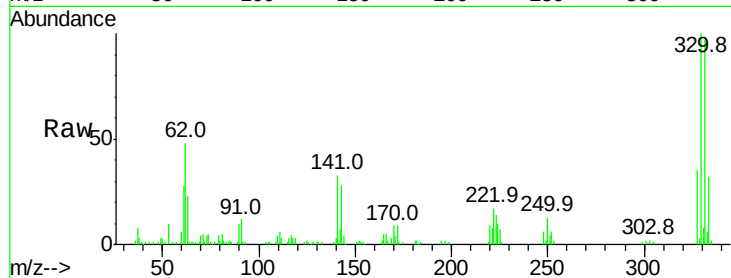
#41  
 2,4,6-Tribromophenol  
 Concen: 44.808 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 292

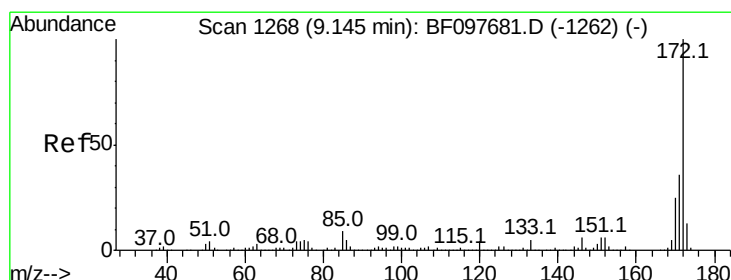
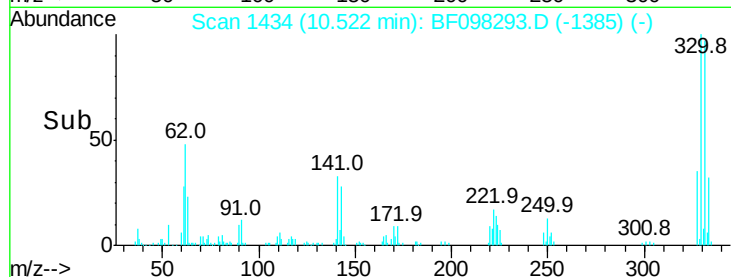
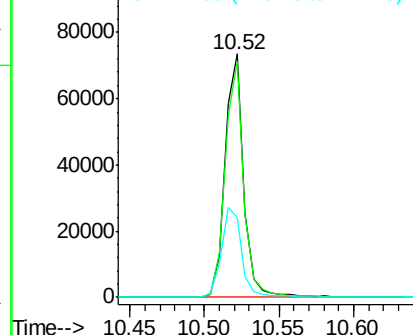
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 76.6  | 115.0 |
| 141     | 39.8  | 31.4  | 47.2  |

Manual Integrations  
 APPROVED

Sohil  
 9/7/2017 5:44:41 PM



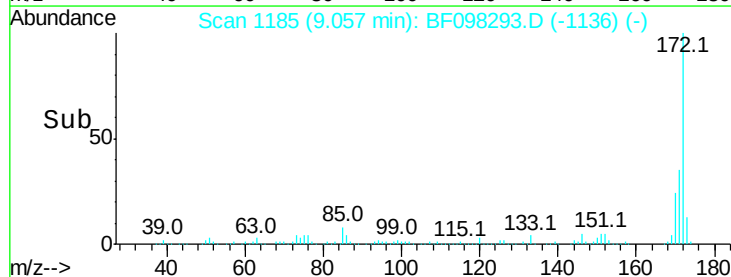
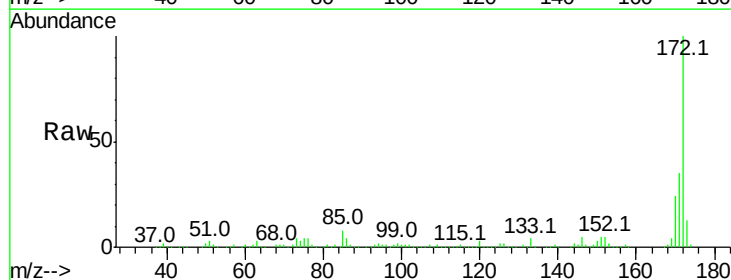
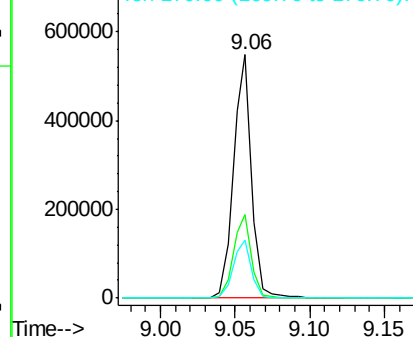
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

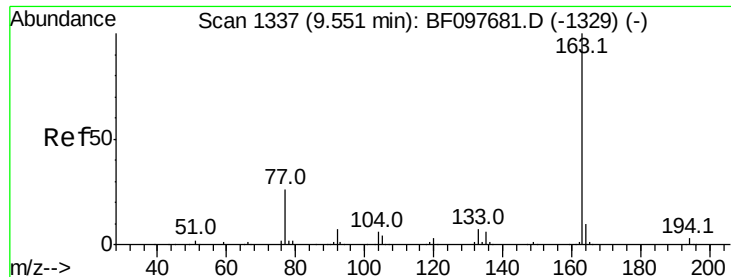


#44  
 2-Fluorobiphenyl  
 Concen: 41.535 ng  
 RT: 9.06 min Scan# 1185  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 29.6  | 44.4  |
| 170     | 23.9  | 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





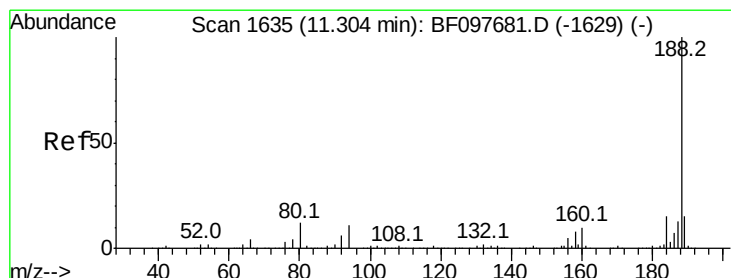
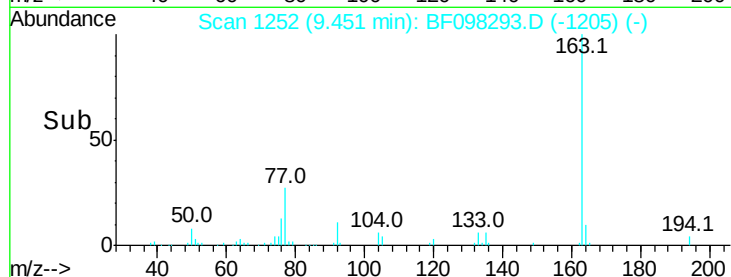
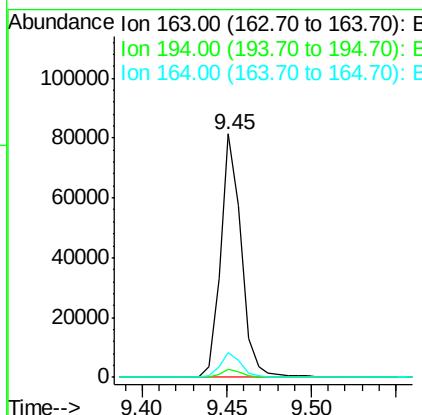
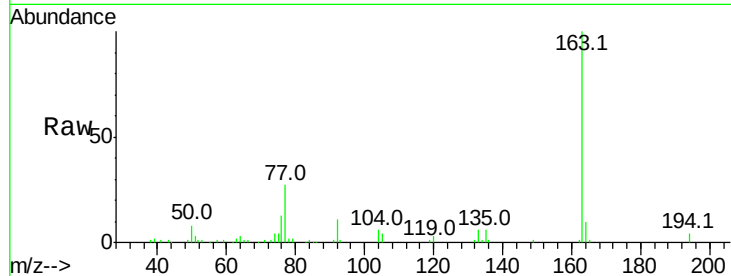
#49  
 Dimethylphthalate  
 Concen: 5.733 ng  
 RT: 9.45 min Scan# 1252  
 Delta R.T. -0.02 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 292

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 69461 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.6   | 2.6   | 4.0   |
| 164       | 10.3  | 8.4   | 12.6  |

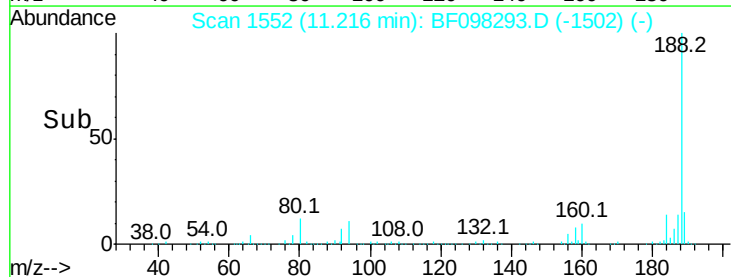
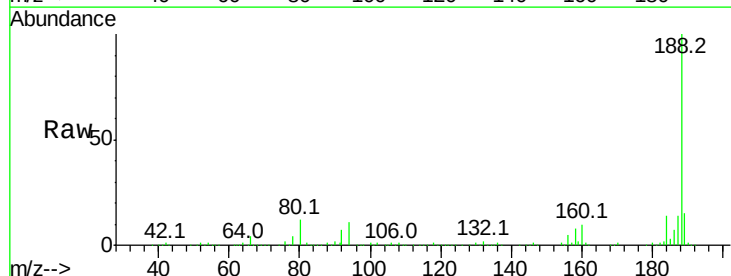
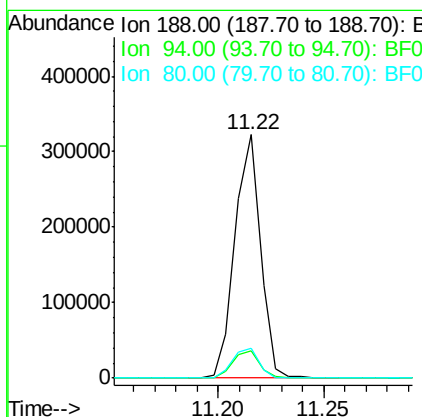
Manual Integrations  
 APPROVED

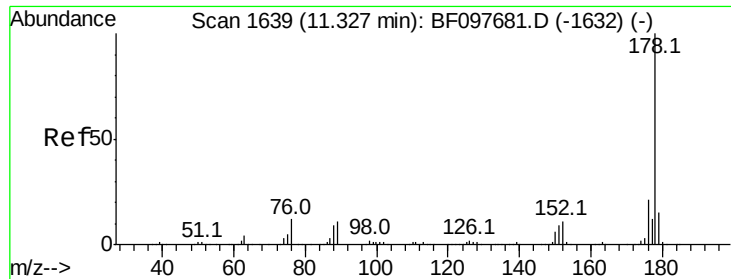
Sohil  
 9/7/2017 5:44:41 PM



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.22 min Scan# 1552  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 269974 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.4  | 9.4   | 14.2   |
| 80        | 12.1  | 10.2  | 15.2   |





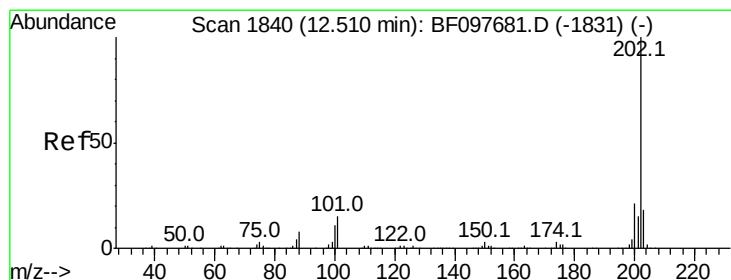
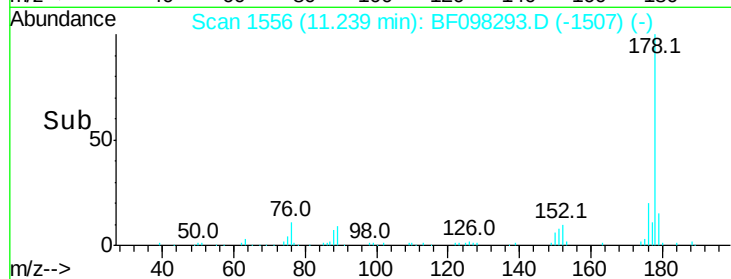
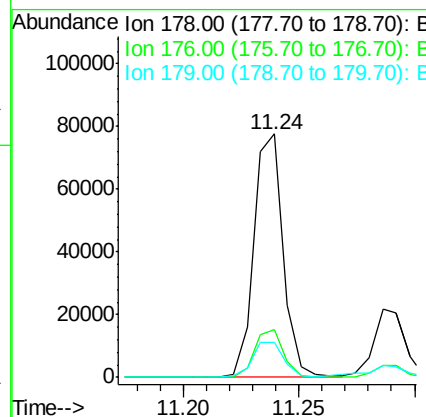
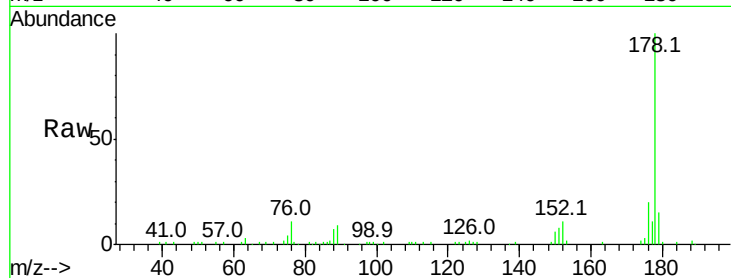
#70  
Phenanthrene  
Concen: 4.797 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

Instrument :  
BNA\_F  
ClientSampled :  
292

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 16.2  | 24.4  |
| 179     | 14.6  | 12.6  | 19.0  |

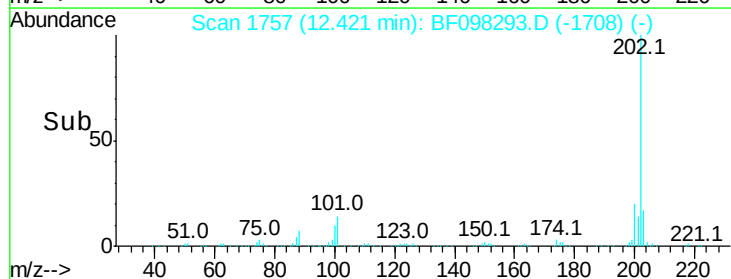
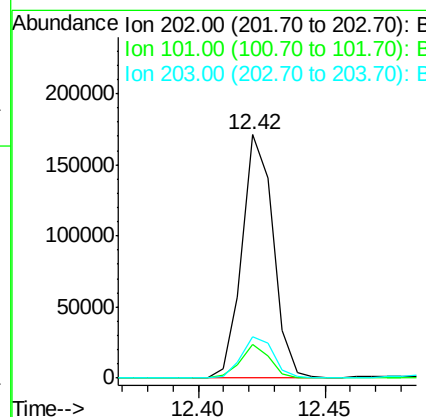
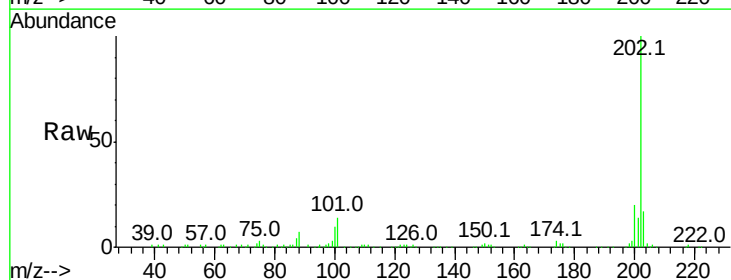
Manual Integrations  
APPROVED

Sohil  
9/7/2017 5:44:41 PM

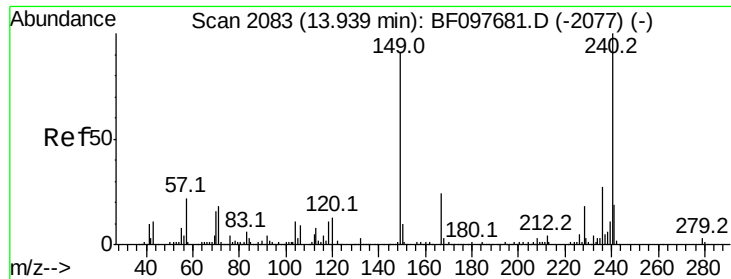


#74  
Fluoranthene  
Concen: 9.773 ng  
RT: 12.42 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.8  | 0.0   | 33.2  |
| 203     | 17.2  | 0.0   | 38.1  |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF098293.D

Acq: 7 Sep 2017 00:51

Instrument :

BNA\_F

ClientSampleId :

292

Tot Ion:240 Resp: 242332

Ion Ratio Lower Upper

240 100

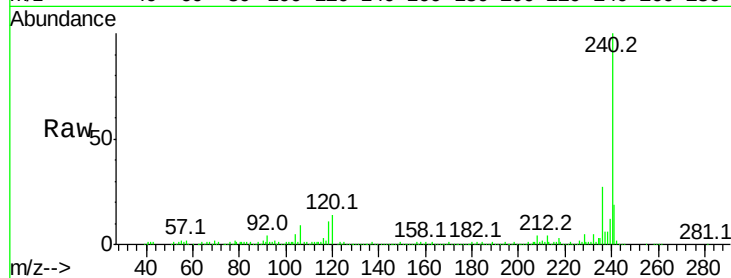
120 13.8 5.8 8.8#

236 27.4 20.5 30.7

Manual Integrations  
APPROVED

Sohil

9/7/2017 5:44:41 PM



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

300000

200000

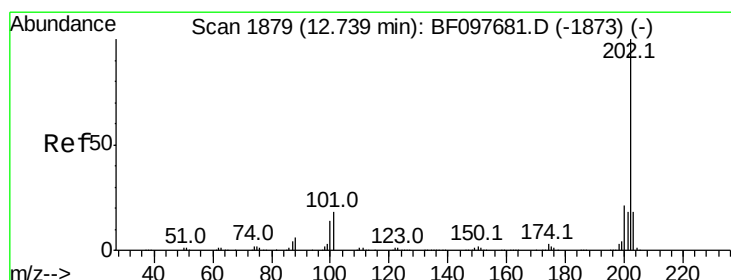
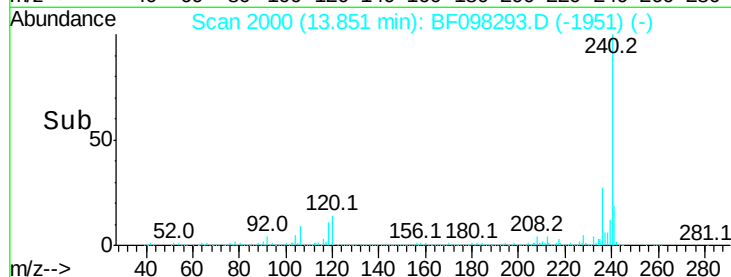
100000

0

13.85

13.80 13.90 14.00

Time-->



#77

Pyrene

Concen: 7.042 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.01 min

Lab File: BF098293.D

Acq: 7 Sep 2017 00:51

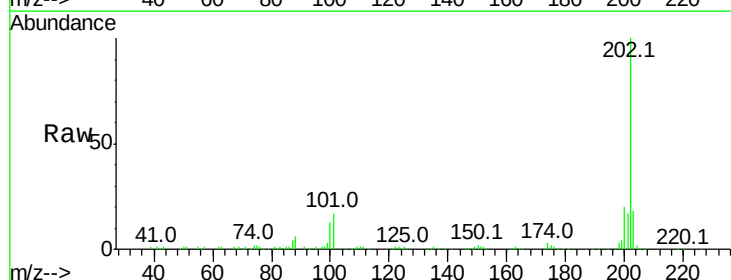
Tgt Ion:202 Resp: 139567

Ion Ratio Lower Upper

202 100

200 19.9 17.6 26.4

203 18.2 14.4 21.6



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

200000

150000

100000

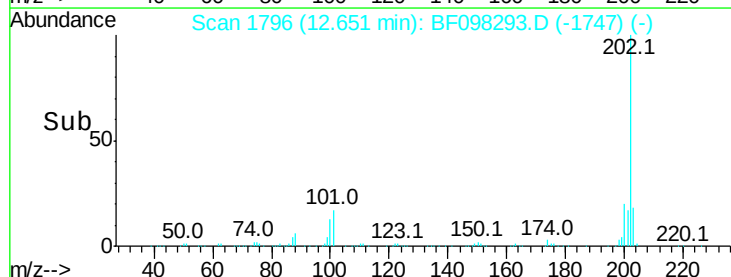
50000

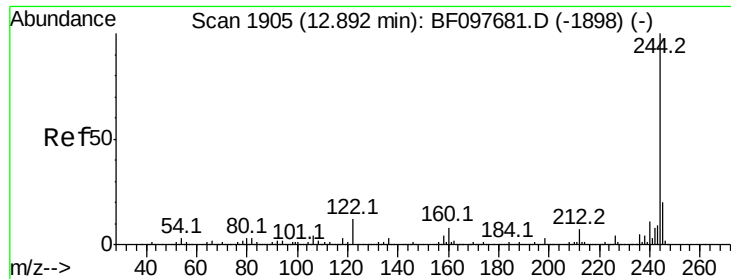
0

12.65

12.60 12.65 12.70

Time-->





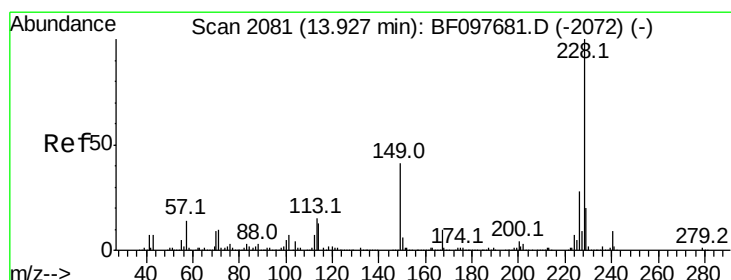
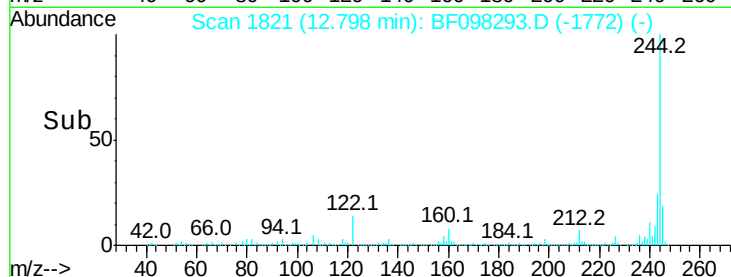
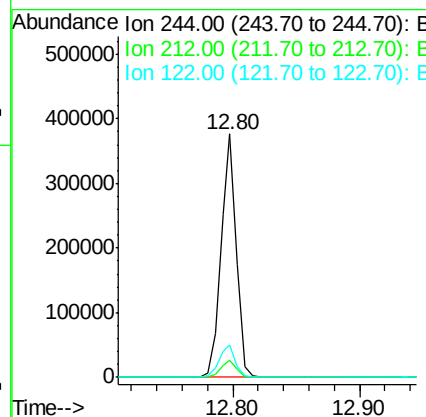
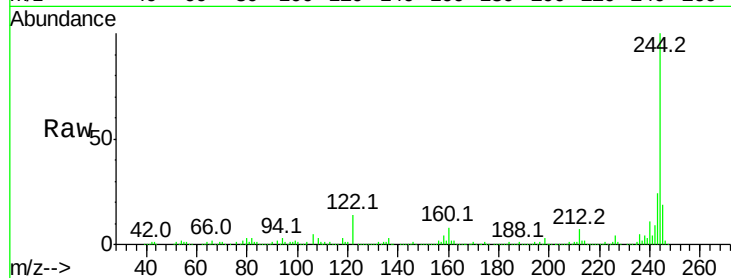
#78  
 Terphenyl-d14  
 Concen: 27.392 ng  
 RT: 12.80 min Scan# 1821  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 292

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 6.0   | 9.0   |
| 122     | 13.5  | 10.3  | 15.5  |

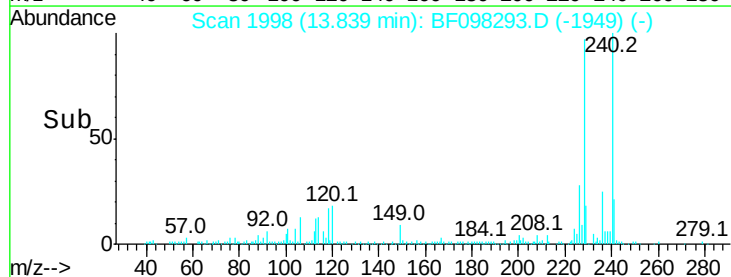
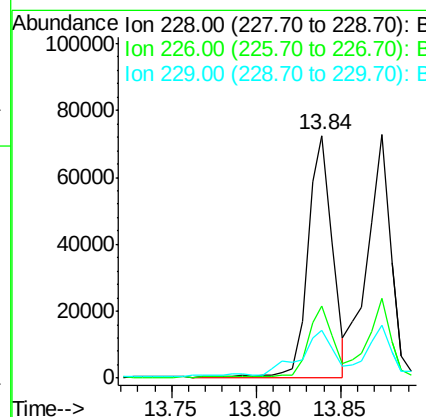
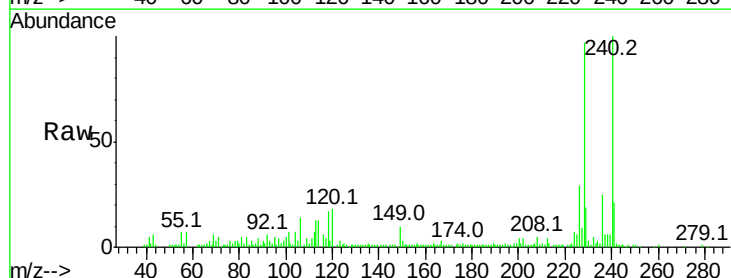
Manual Integrations  
 APPROVED

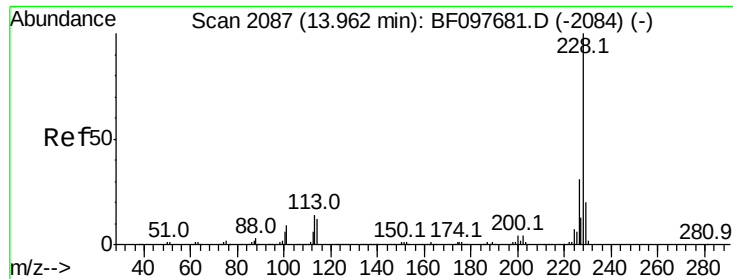
Sohil  
 9/7/2017 5:44:41 PM



#80  
 Benzo(a)anthracene  
 Concen: 4.995 ng  
 RT: 13.84 min Scan# 1998  
 Delta R.T. -0.01 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 22.6  | 33.8  |
| 229     | 19.6  | 16.3  | 24.5  |





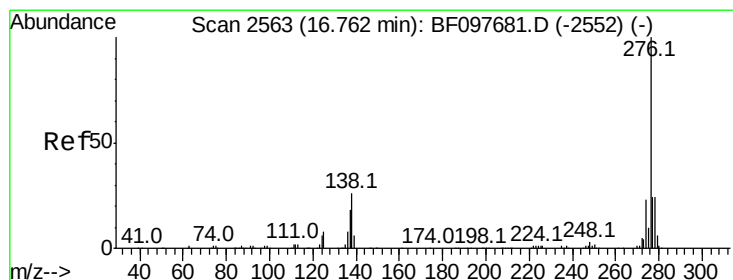
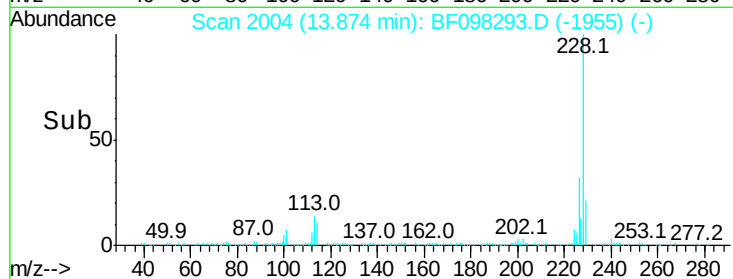
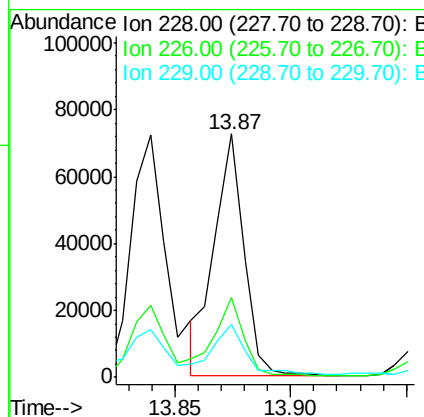
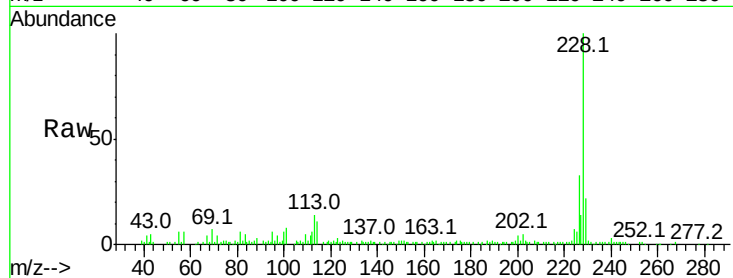
#82  
Chrysene  
Concen: 4.483 ng  
RT: 13.87 min Scan# 2004  
Delta R.T. -0.01 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

Instrument :  
BNA\_F  
ClientSampled :  
292

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 64770 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 32.5    | 24.9  | 37.3  |
| 229 21.9    | 15.8  | 23.6  |

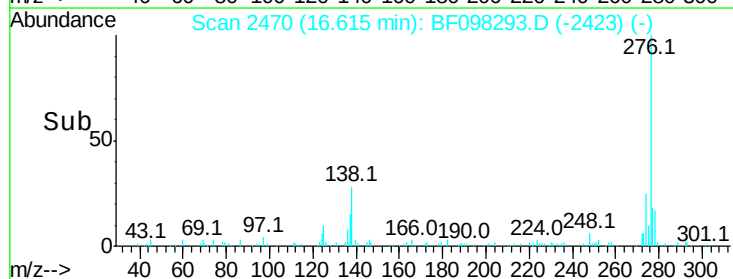
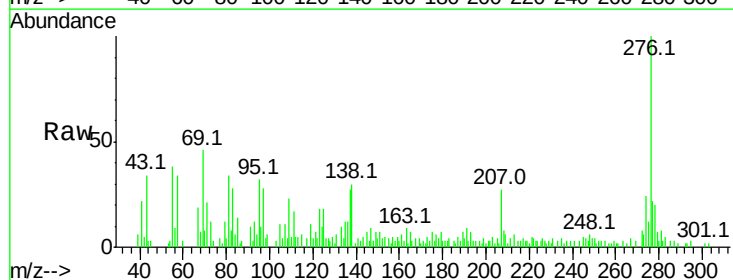
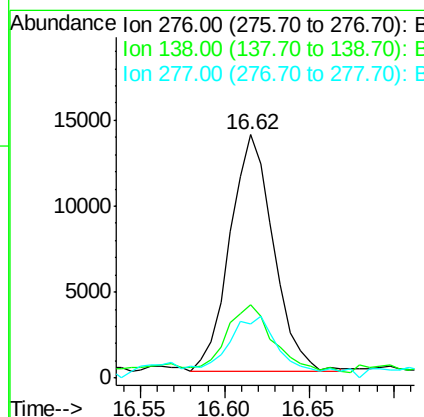
Manual Integrations  
APPROVED

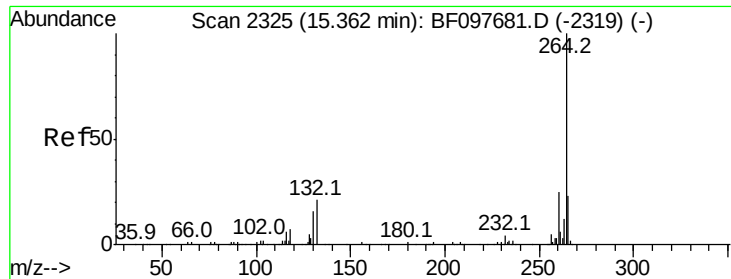
Sohil  
9/7/2017 5:44:41 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.298 ng  
RT: 16.62 min Scan# 2470  
Delta R.T. -0.02 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:276 | Resp: | 24419 |
| Ion Ratio   | Lower | Upper |
| 276 100     |       |       |
| 138 31.3    | 27.8  | 41.6  |
| 277 26.9    | 20.2  | 30.4  |





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.26 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BF098293.D

Acq: 7 Sep 2017 00:51

Instrument :

BNA\_F

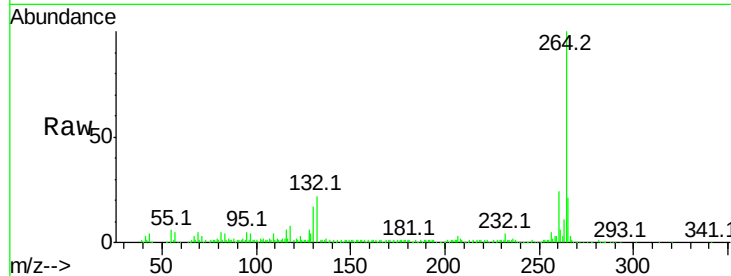
ClientSampled :

292

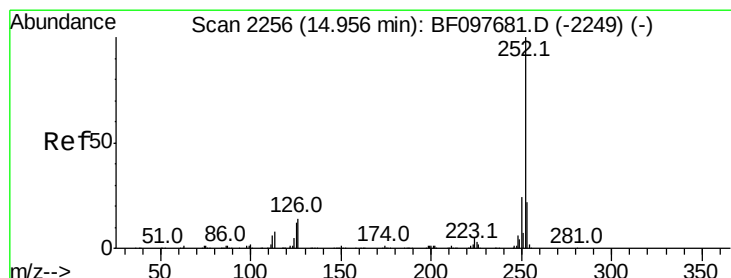
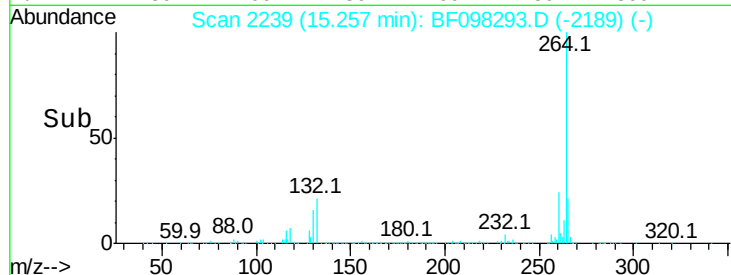
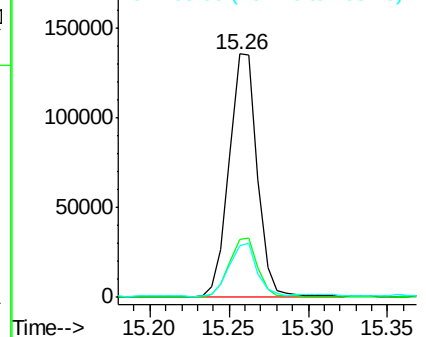
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 168122 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 19.5  | 29.3   |
| 265       | 21.4  | 17.2  | 25.8   |

Manual Integrations  
APPROVED

Sohil  
9/7/2017 5:44:41 PM



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: 6.422 ng m

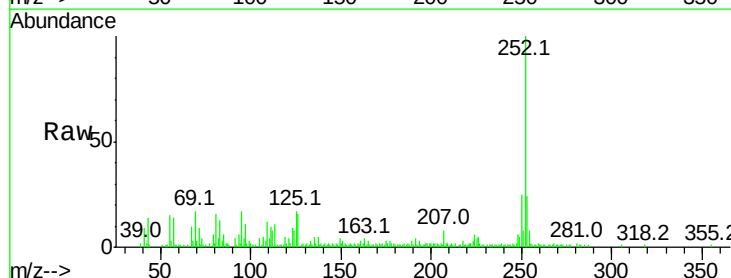
RT: 14.86 min Scan# 2172

Delta R.T. -0.01 min

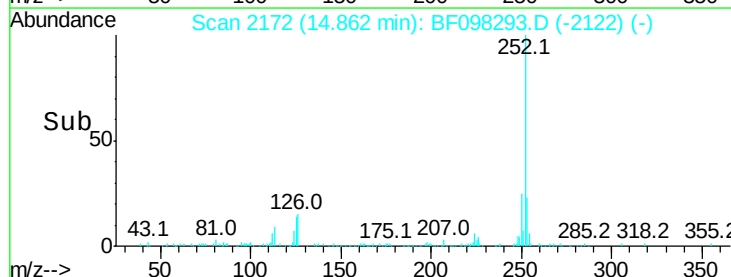
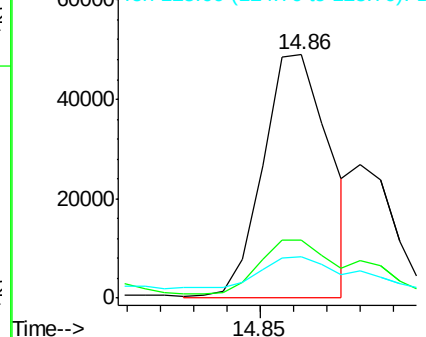
Lab File: BF098293.D

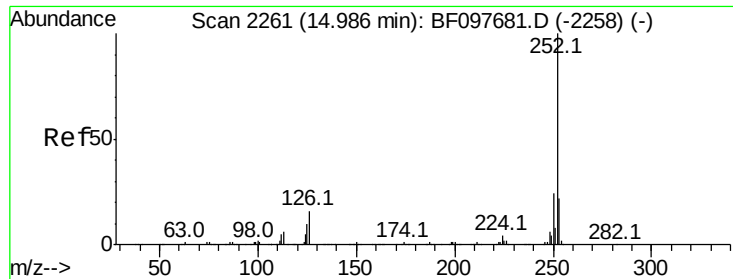
Acq: 7 Sep 2017 00:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 68058 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 18.1  | 27.1  |
| 125       | 16.9  | 9.8   | 14.8# |



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





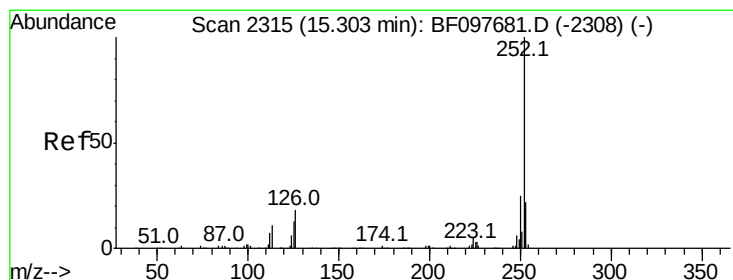
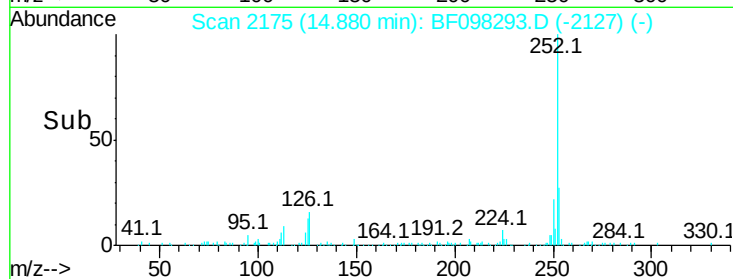
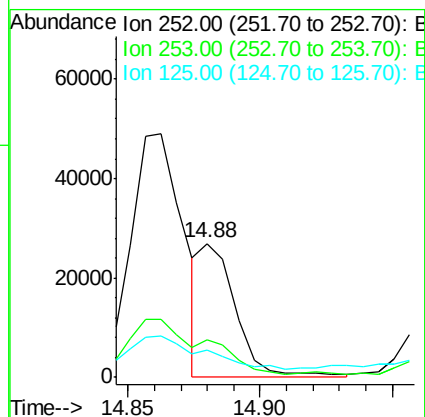
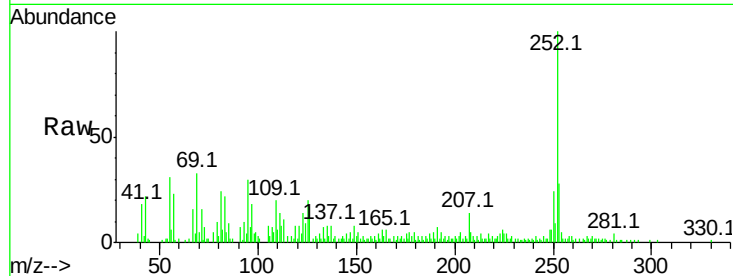
#88  
Benzo(k)fluoranthene  
Concen: 2.517 ng m  
RT: 14.88 min Scan# 2175  
Delta R.T. -0.02 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

Instrument :  
BNA\_F  
ClientSampled :  
292

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.3  | 18.4  | 27.6# |
| 125     | 20.1  | 13.1  | 19.7# |

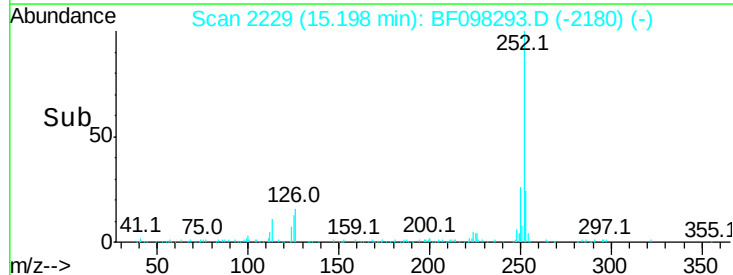
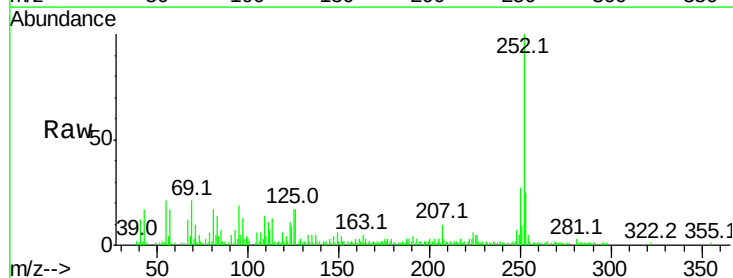
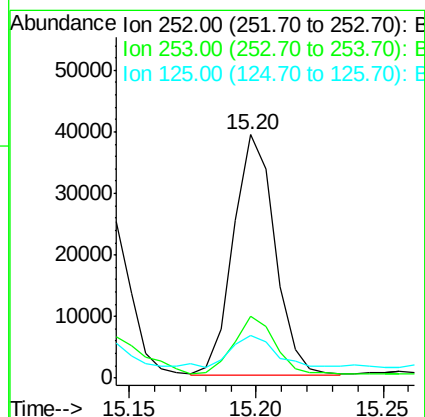
Manual Integrations  
APPROVED

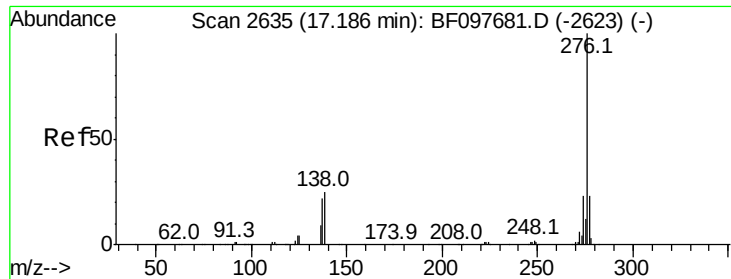
Sohil  
9/7/2017 5:44:41 PM



#89  
Benzo(a)pyrene  
Concen: 4.775 ng  
RT: 15.20 min Scan# 2229  
Delta R.T. -0.01 min  
Lab File: BF098293.D  
Acq: 7 Sep 2017 00:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.5  | 26.3  |
| 125     | 17.3  | 11.0  | 16.4# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 3.342 ng  
 RT: 17.03 min Scan# 2540  
 Delta R.T. -0.02 min  
 Lab File: BF098293.D  
 Acq: 7 Sep 2017 00:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 292

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 26630 |       |       |
| 277     | 27.6  |       | 18.6  | 28.0  |
| 138     | 30.2  |       | 25.4  | 38.0  |

Manual Integrations  
 APPROVED

Sohil  
 9/7/2017 5:44:41 PM

