

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092317\  
 Data File : BF098751.D  
 Acq On : 23 Sep 2017 20:57  
 Operator : SJ/JU  
 Sample : I5360-01 10X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1-A-COMP

Manual Integrations  
 APPROVED

Sohil  
 9/25/2017 6:26:30 PM

Quant Time: Sep 25 07:37:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.92  | 152  | 175869   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.20  | 136  | 697871   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.96  | 164  | 278986   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.45 | 188  | 392415   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.08 | 240  | 285551   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.57 | 264  | 267211   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.53  | 112  | 95538    | 8.65  | ng    | -0.01    |
| 7) Phenol-d6                | 6.53  | 99   | 116801   | 8.57  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 66715    | 6.13  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.74 | 330  | 14486    | 6.35  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.27  | 172  | 129631   | 7.76  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.02 | 244  | 72243    | 5.75  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 70) Phenanthrene            | 11.47 | 178  | 139236   | 6.629 | ng    | 99       |
| 74) Fluoranthene            | 12.66 | 202  | 148517   | 6.983 | ng    | 97       |
| 77) Pyrene                  | 12.89 | 202  | 130929   | 6.013 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.07 | 228  | 61762    | 3.572 | ng    | 96       |
| 82) Chrysene                | 14.10 | 228  | 52631    | 3.197 | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.13 | 252  | 64267m   | 3.912 | ng    |          |
| 89) Benzo(a)pyrene          | 15.50 | 252  | 42830    | 2.840 | ng    | # 93     |
| 91) Benzo(g,h,i)perylene    | 17.53 | 276  | 24469    | 2.051 | ng    | # 91     |

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

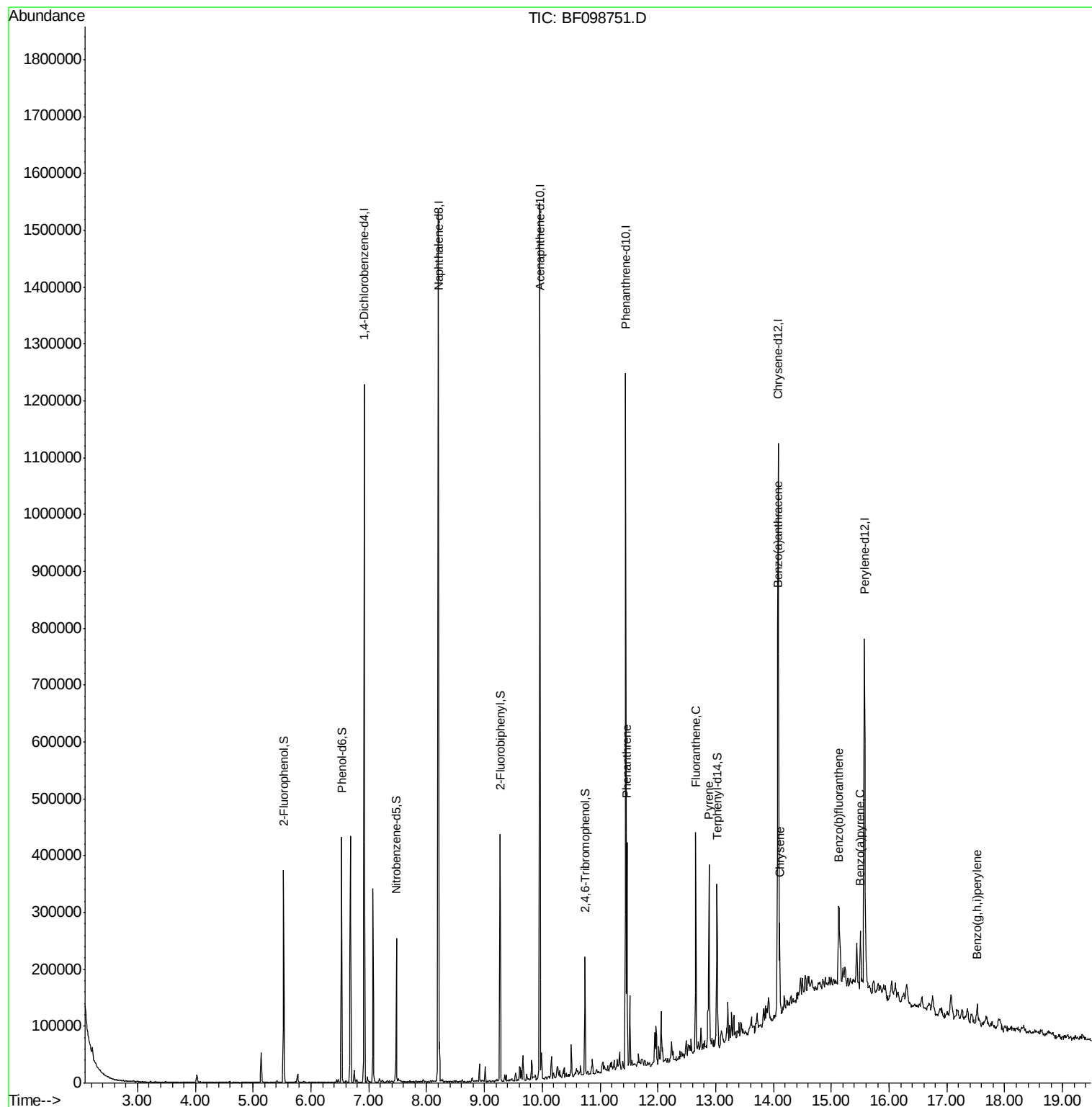
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092317\  
Data File : BF098751.D  
Acq On : 23 Sep 2017 20:57  
Operator : SJ/JU  
Sample : I5360-01 10X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1-A-COMP

Manual Integrations  
APPROVED

Sohil  
9/25/2017 6:26:30 PM

Quant Time: Sep 25 07:37:26 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 23 13:50:58 2017  
Response via : Initial Calibration





#1

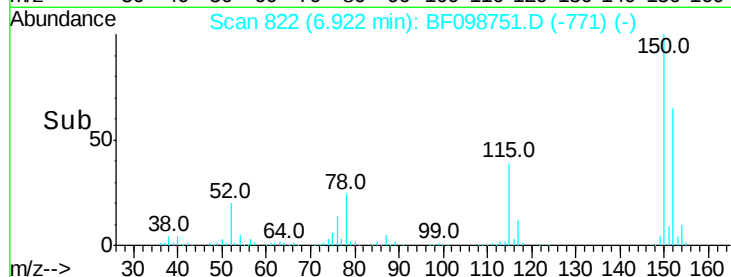
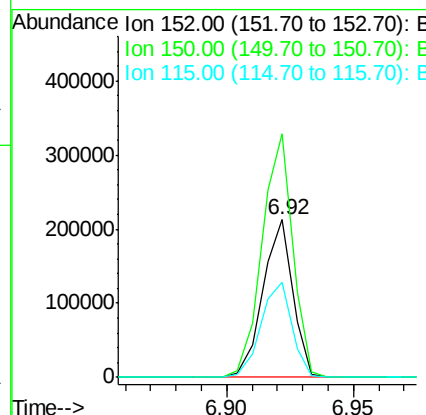
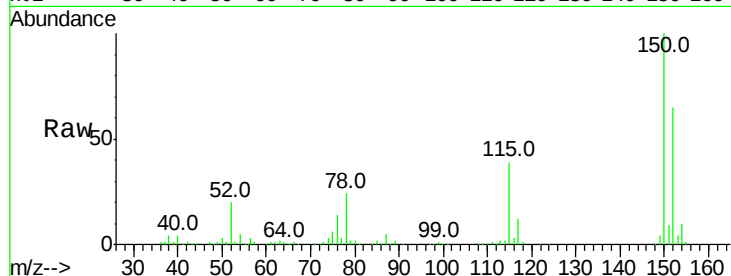
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 822  
Delta R.T. 0.00 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1-A-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.6 | 124.6 | 186.8 |
| 115     | 60.1  | 50.1  | 75.1  |

Manual Integrations  
APPROVED

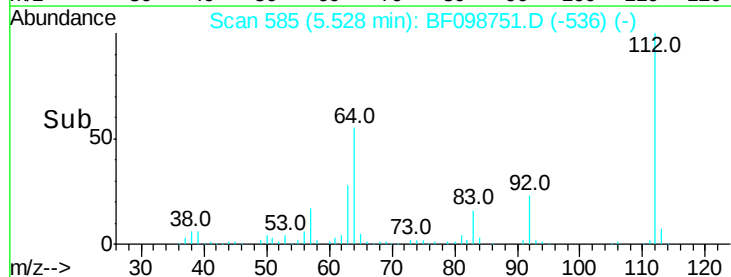
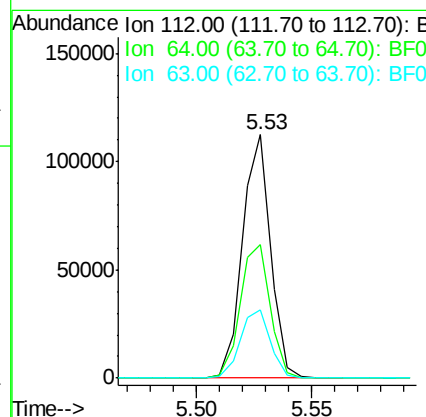
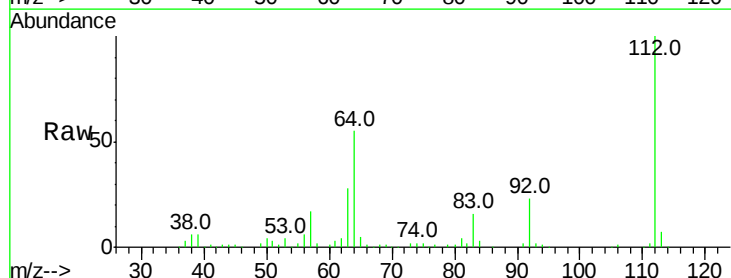
Sohil  
9/25/2017 6:26:30 PM



#5

2-Fluorophenol  
Concen: 8.648 ng  
RT: 5.53 min Scan# 585  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.8  | 47.9  | 71.9  |
| 63      | 28.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 8.570 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF098751.D

Acq: 23 Sep 2017 20:57

Instrument :

BNA\_F

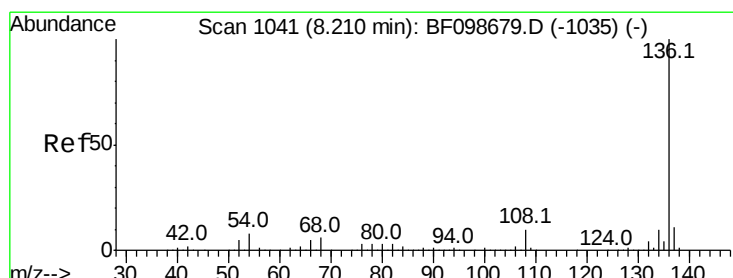
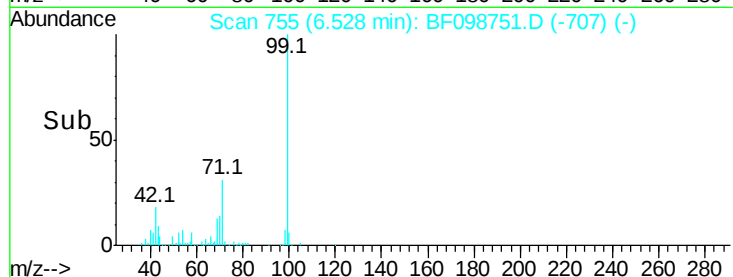
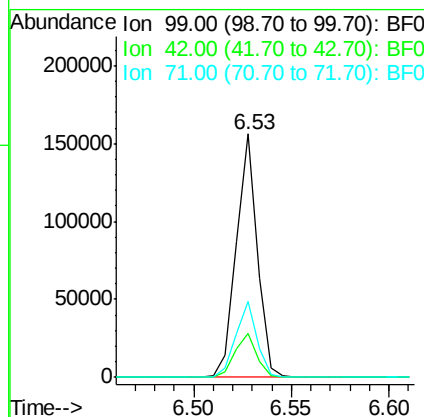
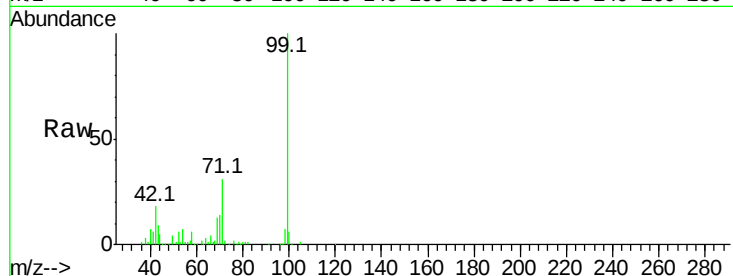
ClientSampleId :

SP-1-A-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 116801 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.3  | 14.5  | 21.7   |
| 71        | 31.3  | 25.4  | 38.0   |

Manual Integrations  
APPROVED

Sohil  
9/25/2017 6:26:30 PM



#21

Naphthalene-d8

Concen: 20.000 ng

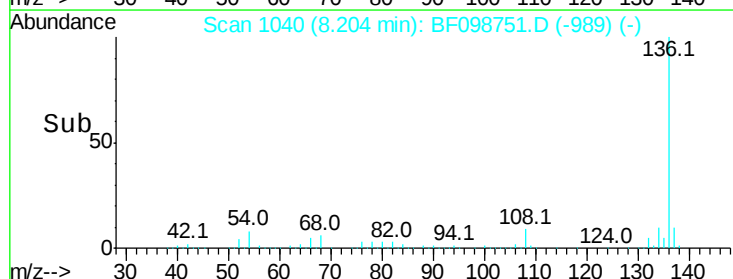
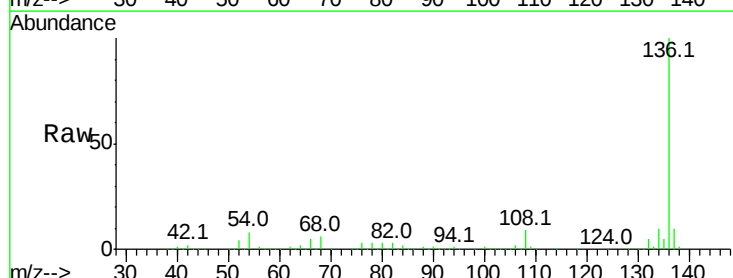
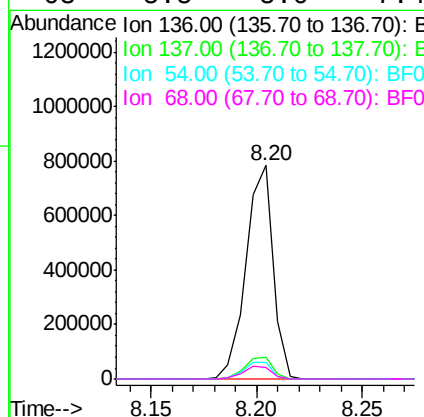
RT: 8.20 min Scan# 1040

Delta R.T. 0.00 min

Lab File: BF098751.D

Acq: 23 Sep 2017 20:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 697871 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.5  | 8.9   | 13.3   |
| 54        | 7.6   | 6.6   | 9.8    |
| 68        | 5.5   | 5.0   | 7.4    |





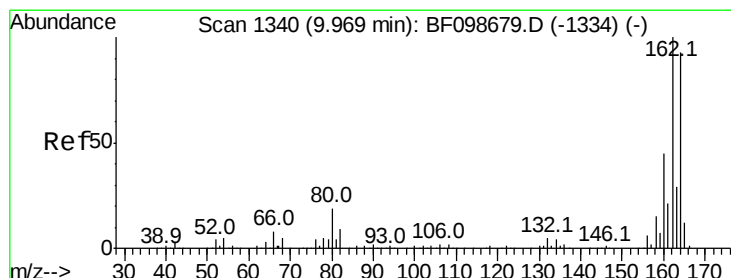
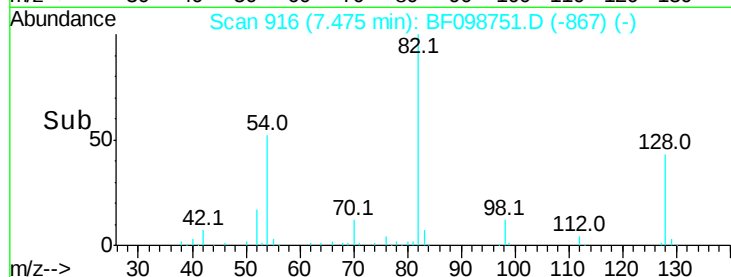
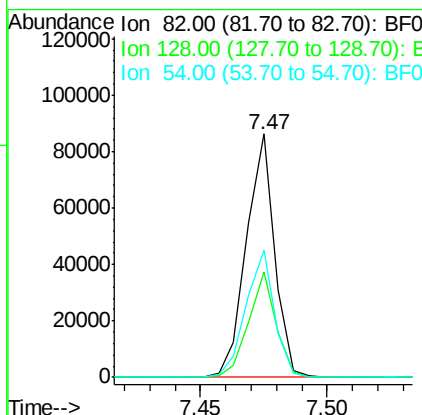
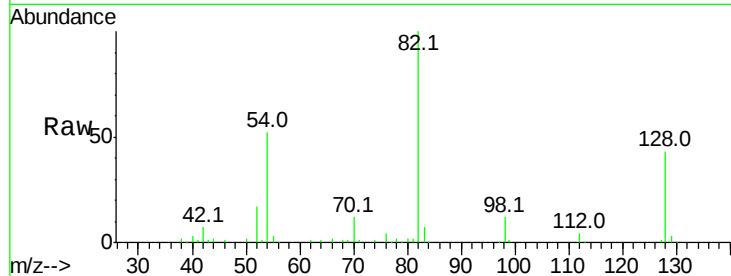
#23  
Nitrobenzene-d5  
Concen: 6.131 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1-A-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.3  | 36.1  | 54.1  |
| 54      | 52.2  | 41.4  | 62.2  |

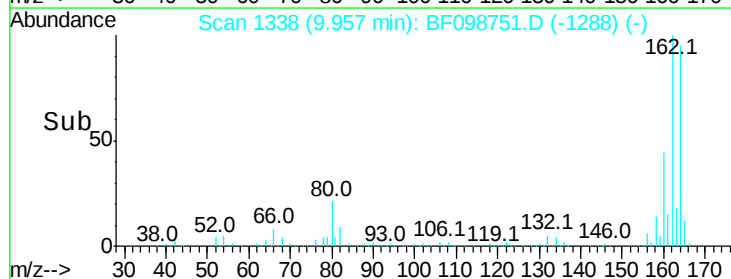
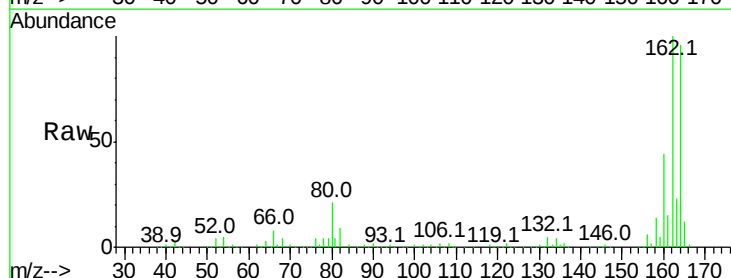
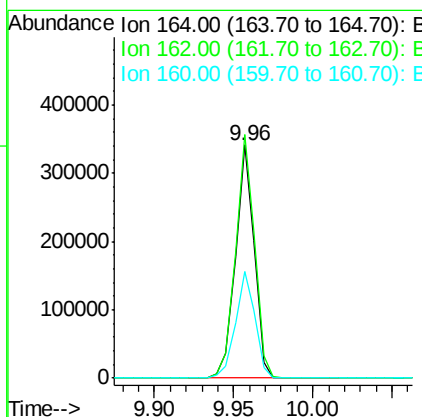
Manual Integrations  
APPROVED

Sohil  
9/25/2017 6:26:30 PM



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.96 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.6 | 86.1  | 129.1 |
| 160     | 46.0  | 38.3  | 57.5  |





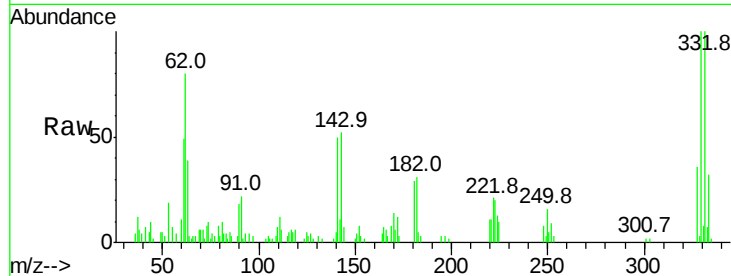
#41  
 2,4,6-Tribromophenol  
 Concen: 6.346 ng  
 RT: 10.74 min Scan# 1471  
 Delta R.T. -0.01 min  
 Lab File: BF098751.D  
 Acq: 23 Sep 2017 20:57

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-1-A-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 98.5  | 77.0 | 115.6 |       |
| 141     | 54.1  | 29.9 | 44.9  |       |

Manual Integrations  
 APPROVED

Sohil  
 9/25/2017 6:26:30 PM

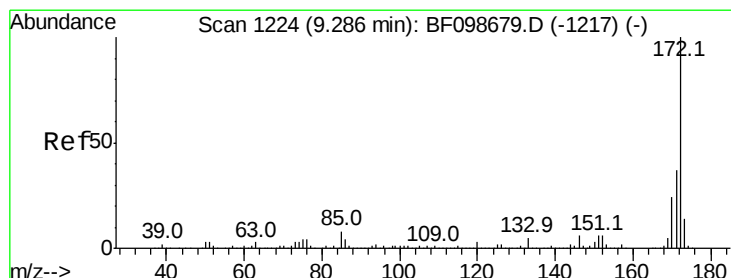
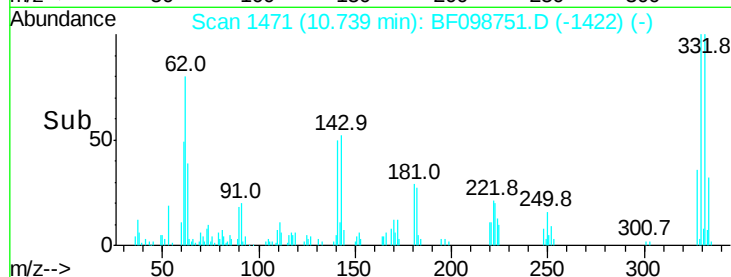
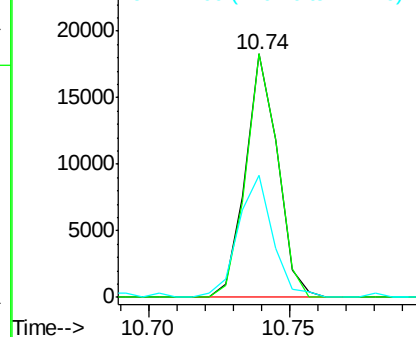


Abundance

Ion 329.80 (329.50 to 330.50): E

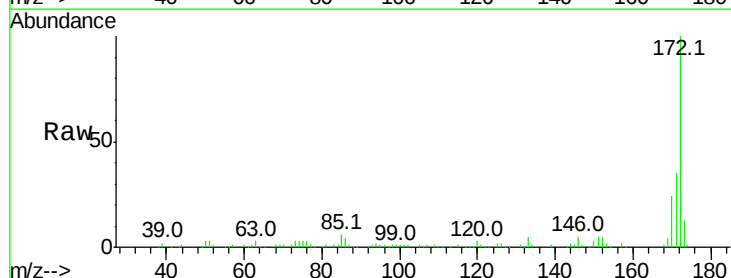
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 7.757 ng  
 RT: 9.27 min Scan# 1222  
 Delta R.T. -0.01 min  
 Lab File: BF098751.D  
 Acq: 23 Sep 2017 20:57

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.0  | 29.7 | 44.5  |       |
| 170     | 23.9  | 19.6 | 29.4  |       |

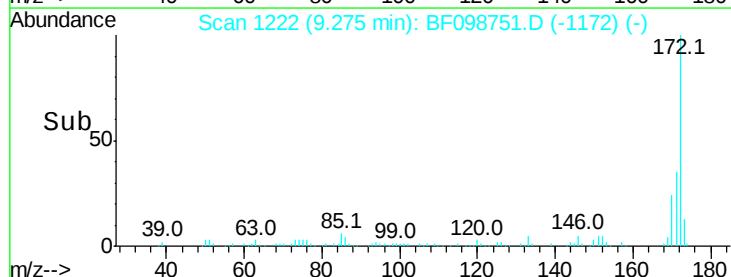
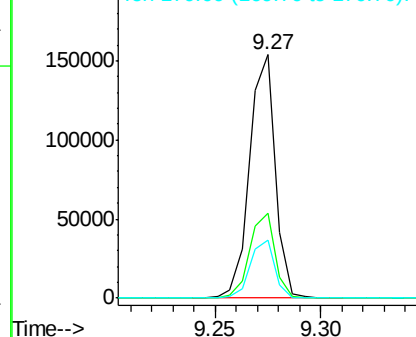


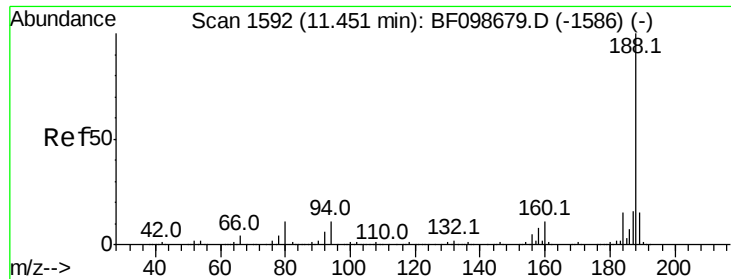
Abundance

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





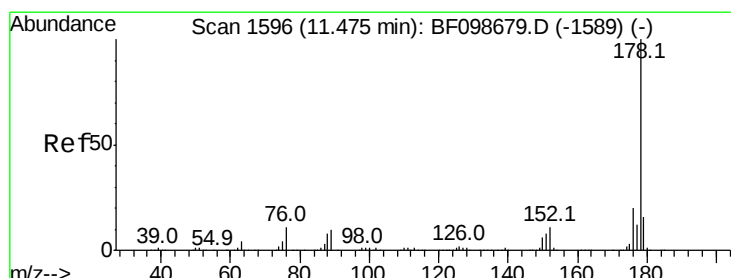
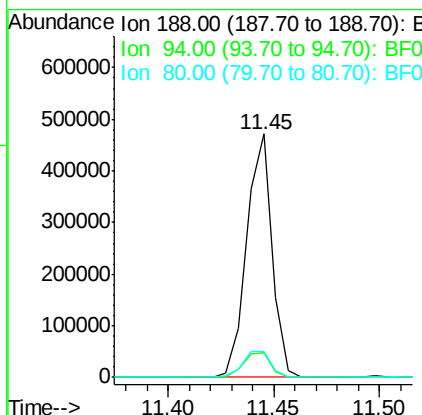
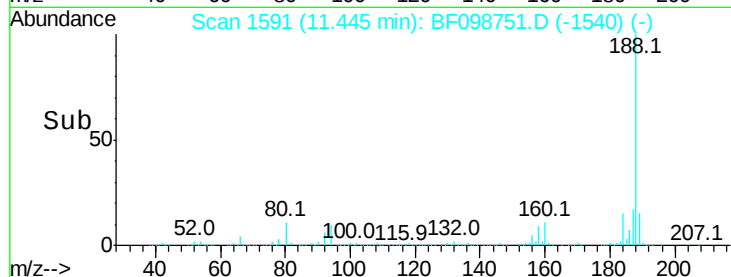
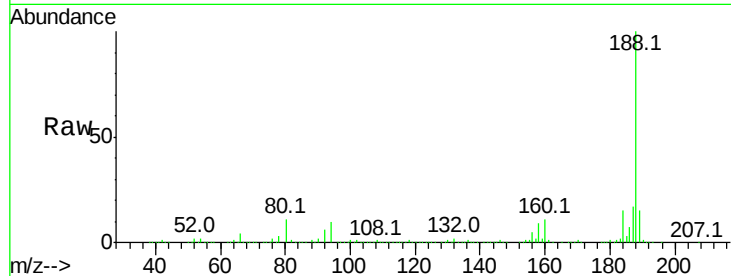
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.45 min Scan# 1591  
Delta R.T. 0.00 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1-A-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 392415 |       |       |
| 94      | 10.1  |        | 8.5   | 12.7  |
| 80      | 10.8  |        | 9.2   | 13.8  |

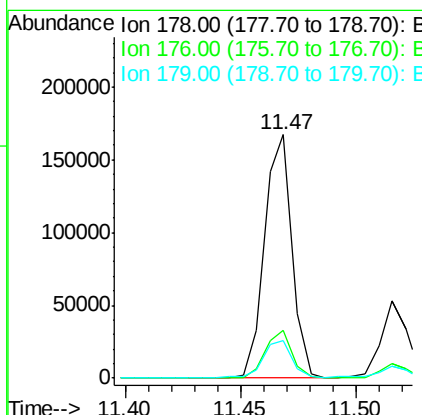
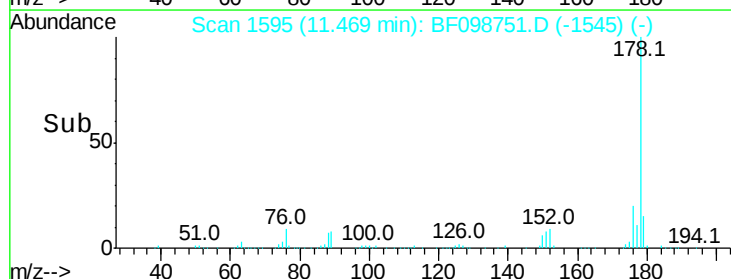
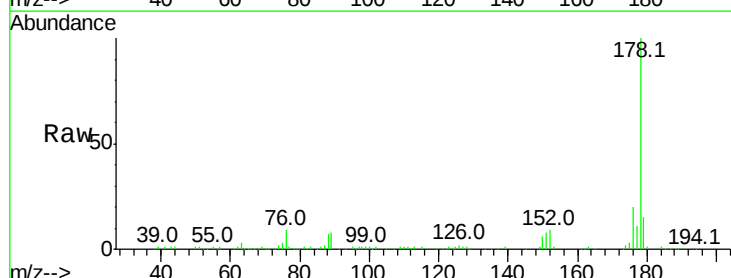
Manual Integrations  
APPROVED

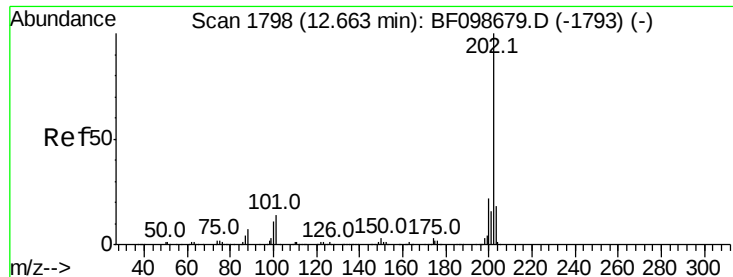
Sohil  
9/25/2017 6:26:30 PM



#70  
Phenanthrene  
Concen: 6.629 ng  
RT: 11.47 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 139236 |       |       |
| 176     | 19.9  |        | 15.8  | 23.8  |
| 179     | 15.2  |        | 13.0  | 19.6  |





#74

Fluoranthene

Concen: 6.983 ng

RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF098751.D

Acq: 23 Sep 2017 20:57

Instrument :

BNA\_F

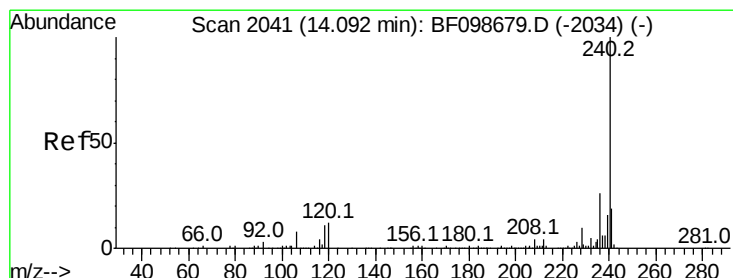
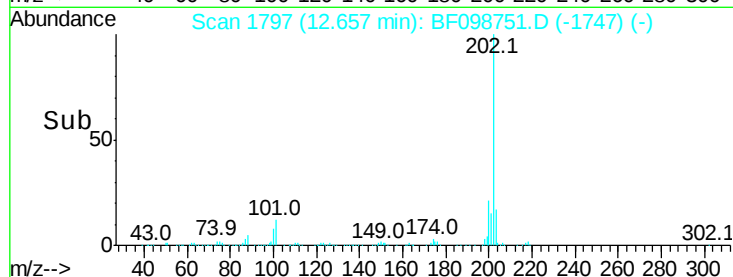
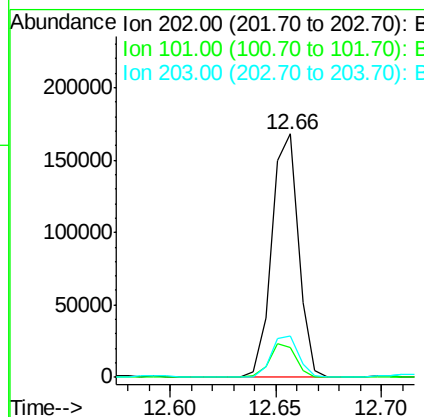
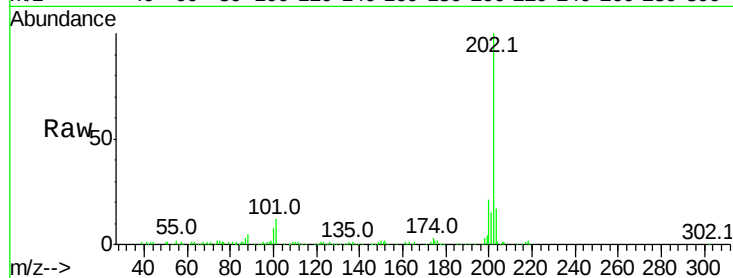
ClientSampleId :

SP-1-A-COMP

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 148517 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 12.1 | 0.0   | 34.1   |
| 203       | 17.2 | 0.0   | 38.1   |

Manual Integrations  
APPROVED

Sohil  
9/25/2017 6:26:30 PM



#75

Chrysene-d12

Concen: 20.000 ng

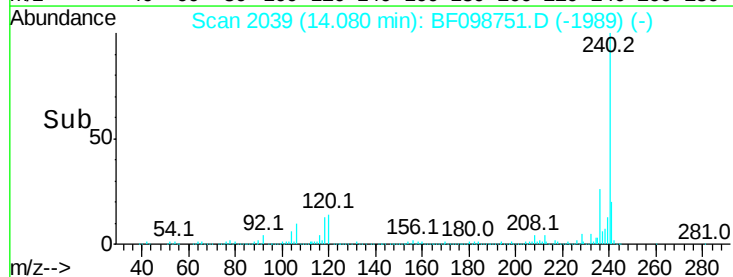
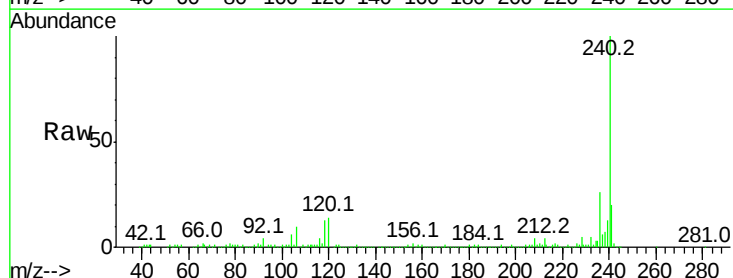
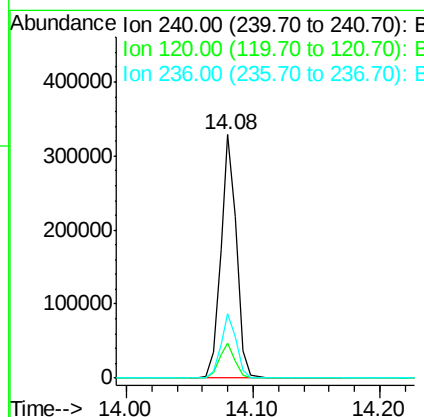
RT: 14.08 min Scan# 2039

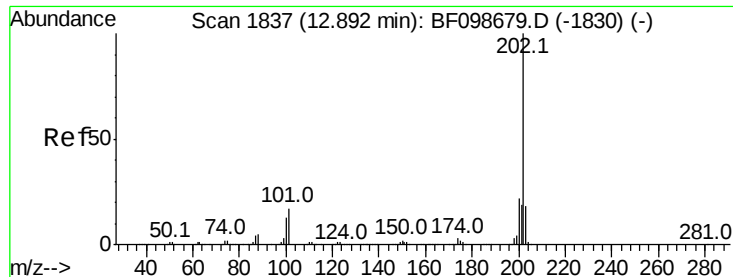
Delta R.T. -0.01 min

Lab File: BF098751.D

Acq: 23 Sep 2017 20:57

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 285551 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 14.2 | 9.5   | 14.3   |
| 236       | 26.4 | 20.7  | 31.1   |





#77

Pvrene

Concen: 6.013 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF098751.D

Acq: 23 Sep 2017 20:57

Instrument :

BNA\_F

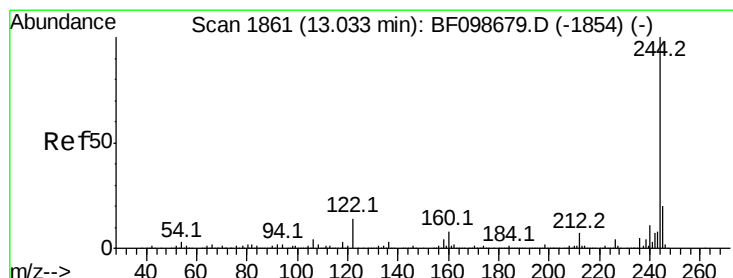
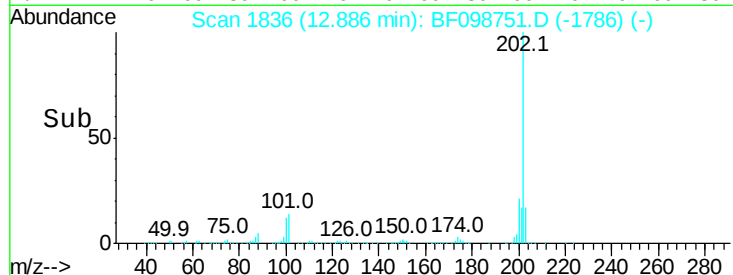
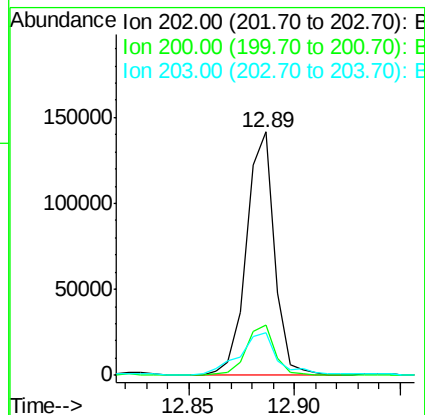
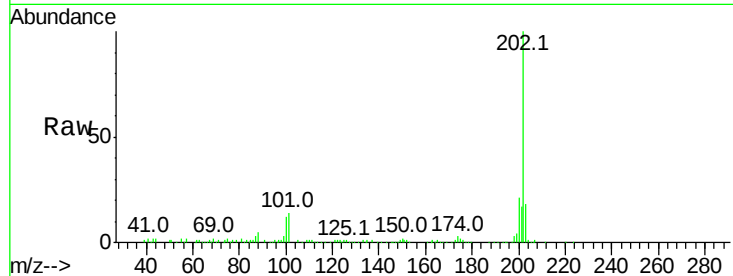
ClientSampleId :

SP-1-A-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 130929 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.9  | 17.4  | 26.2   |
| 203       | 17.6  | 14.3  | 21.5   |

Manual Integrations  
APPROVED

Sohil  
9/25/2017 6:26:30 PM



#78

Terphenyl-d14

Concen: 5.754 ng

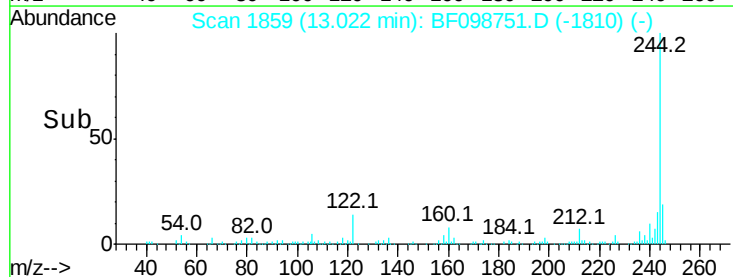
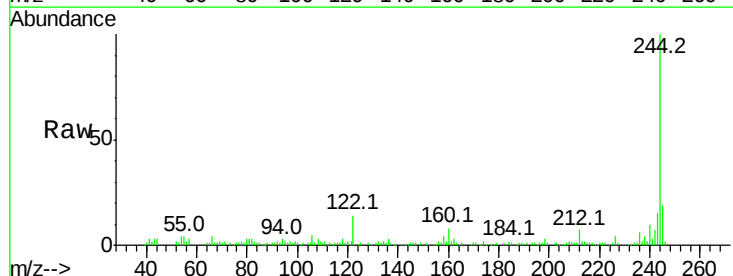
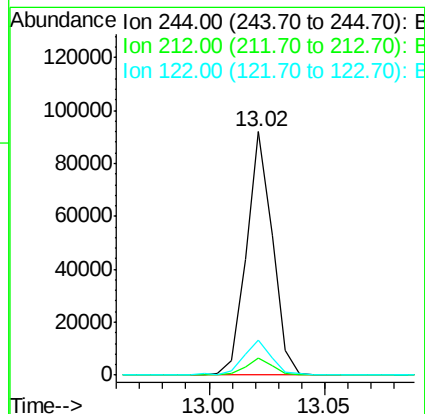
RT: 13.02 min Scan# 1859

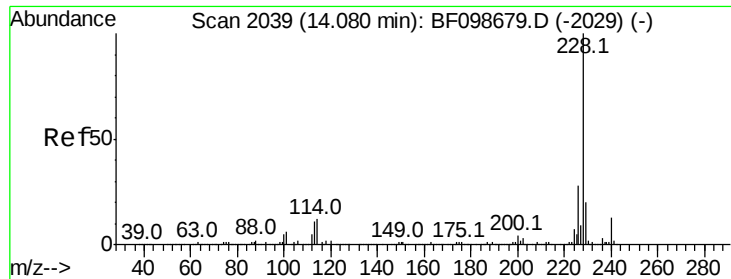
Delta R.T. -0.01 min

Lab File: BF098751.D

Acq: 23 Sep 2017 20:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 72243 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.1   | 5.4   | 8.0   |
| 122       | 14.4  | 11.0  | 16.4  |





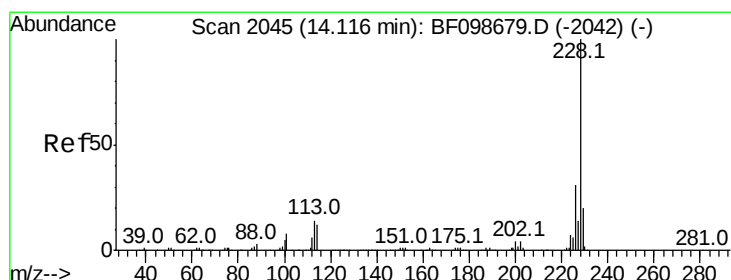
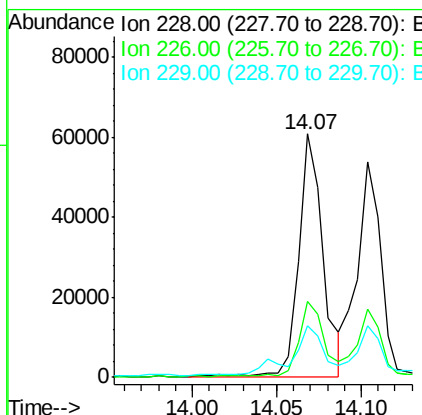
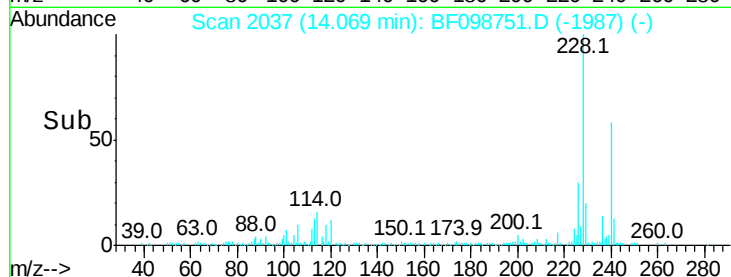
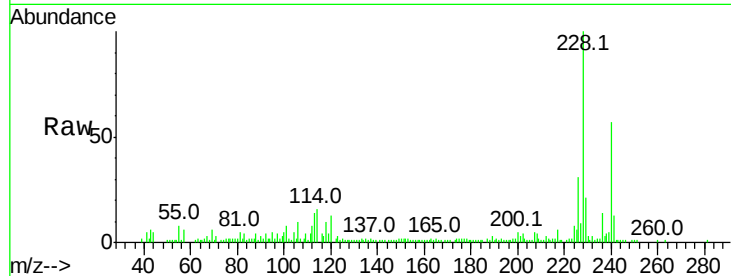
#80  
Benzo(a)anthracene  
Concen: 3.572 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1-A-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 22.6  | 33.8  |
| 229     | 21.0  | 15.8  | 23.6  |

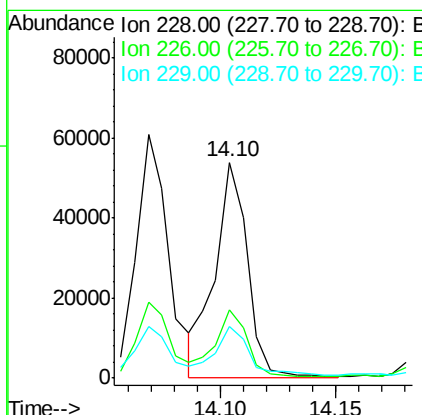
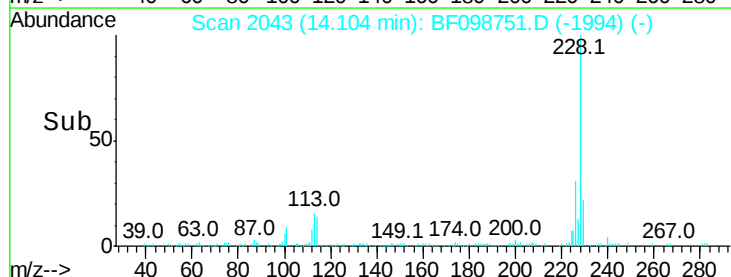
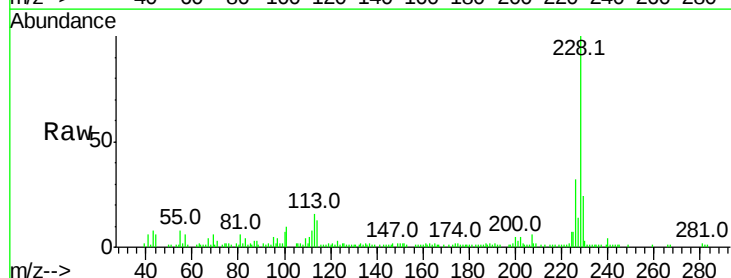
Manual Integrations  
APPROVED

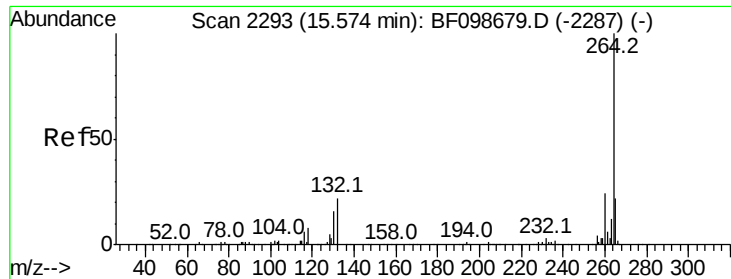
Sohil  
9/25/2017 6:26:30 PM



#82  
Chrysene  
Concen: 3.197 ng  
RT: 14.10 min Scan# 2043  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 25.0  | 37.6  |
| 229     | 23.9  | 16.2  | 24.4  |





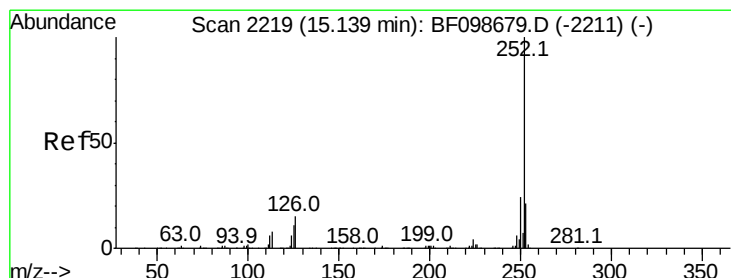
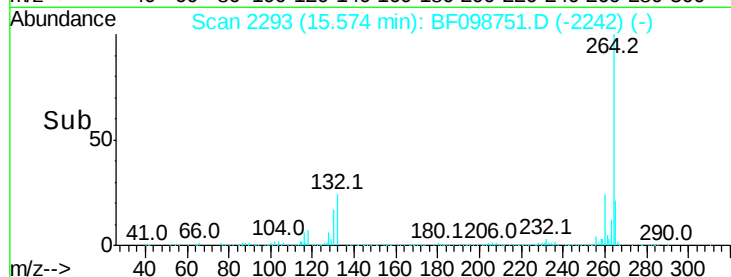
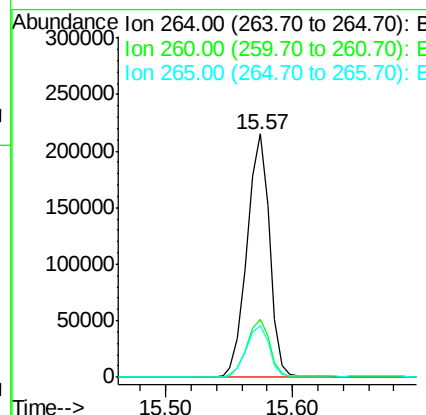
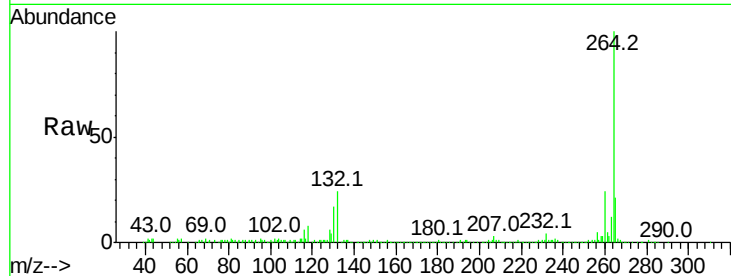
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.57 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1-A-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 21.1  | 17.5  | 26.3  |

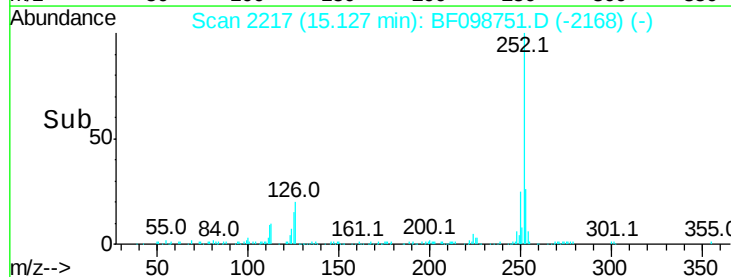
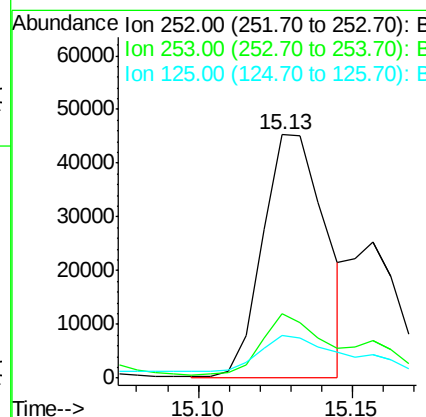
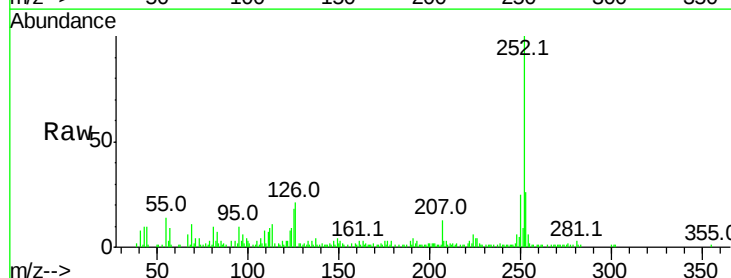
Manual Integrations  
APPROVED

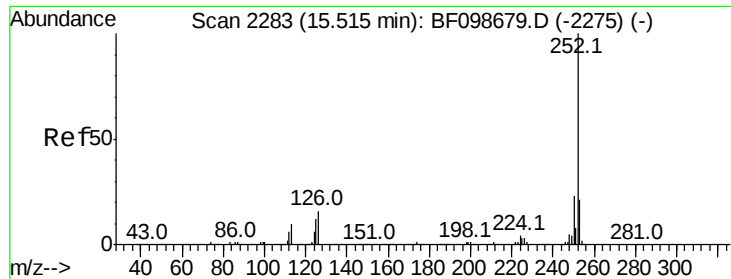
Sohil  
9/25/2017 6:26:30 PM



#87  
Benzo(b)fluoranthene  
Concen: 3.912 ng m  
RT: 15.13 min Scan# 2217  
Delta R.T. -0.01 min  
Lab File: BF098751.D  
Acq: 23 Sep 2017 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.2  | 17.0  | 25.6# |
| 125     | 17.6  | 9.0   | 13.6# |





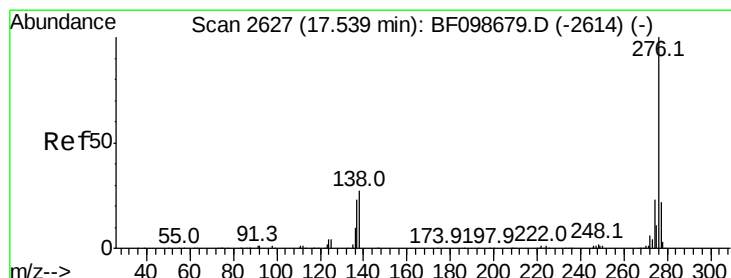
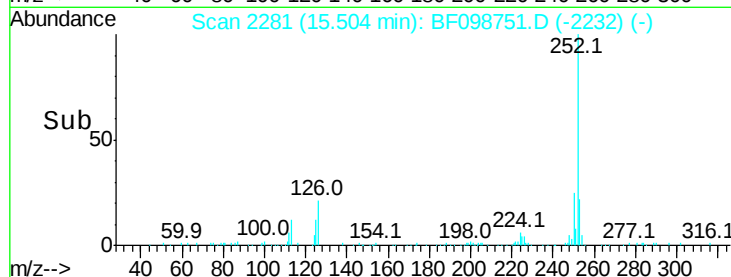
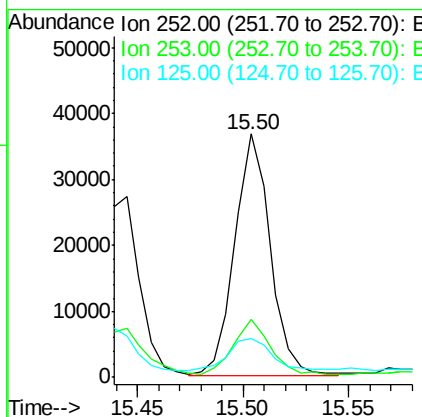
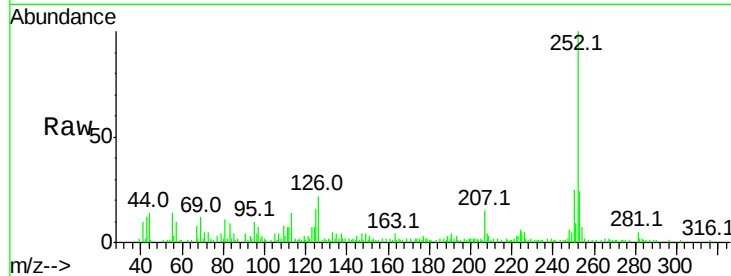
#89  
 Benzo(a)pyrene  
 Concen: 2.840 ng  
 RT: 15.50 min Scan# 2281  
 Delta R.T. -0.01 min  
 Lab File: BF098751.D  
 Acq: 23 Sep 2017 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1-A-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 42830 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 17.1  | 25.7  |
| 125       | 15.9  | 9.8   | 14.6# |

Manual Integrations  
 APPROVED

Sohil  
 9/25/2017 6:26:30 PM



#91  
 Benzo(g,h,i)perylene  
 Concen: 2.051 ng  
 RT: 17.53 min Scan# 2625  
 Delta R.T. -0.02 min  
 Lab File: BF098751.D  
 Acq: 23 Sep 2017 20:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 24469 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.3  | 17.9  | 26.9  |
| 138       | 34.0  | 21.8  | 32.8# |

