

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\  
 Data File : BF078669.D  
 Acq On : 21 Apr 2015 5:54  
 Operator : TP/IZ  
 Sample : G1943-03 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-3

Manual Integrations  
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 4/21/2015 5:04:17 PM

Quant Time: Apr 21 06:46:30 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 21 03:43:19 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.85  | 152  | 28777    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.01  | 136  | 118023   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 11.20 | 164  | 60444    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 13.94 | 188  | 115700   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 17.79 | 240  | 123385   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 19.52 | 264  | 120836   | 20.00 | ng    | 0.05     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 3.88  | 112  | 4951m    | 2.84  | ng    | 0.01     |
| 7) Phenol-d6                | 5.37  | 99   | 8304m    | 3.80  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 6.80  | 82   | 4261m    | 2.19  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.67 | 330  | 2701     | 5.39  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 10.03 | 172  | 14632    | 3.46  | ng    | 0.00     |
| 78) Terphenyl-d14           | 16.46 | 244  | 22989    | 4.21  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 74) Fluoranthene            | 15.86 | 202  | 29082    | 4.12  | ng    | 93       |
| 77) Pyrene                  | 16.17 | 202  | 28043    | 3.62  | ng    | 97       |
| 80) Benzo(a)anthracene      | 17.78 | 228  | 14711    | 2.00  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 19.09 | 252  | 19263m   | 2.58  | ng    |          |

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

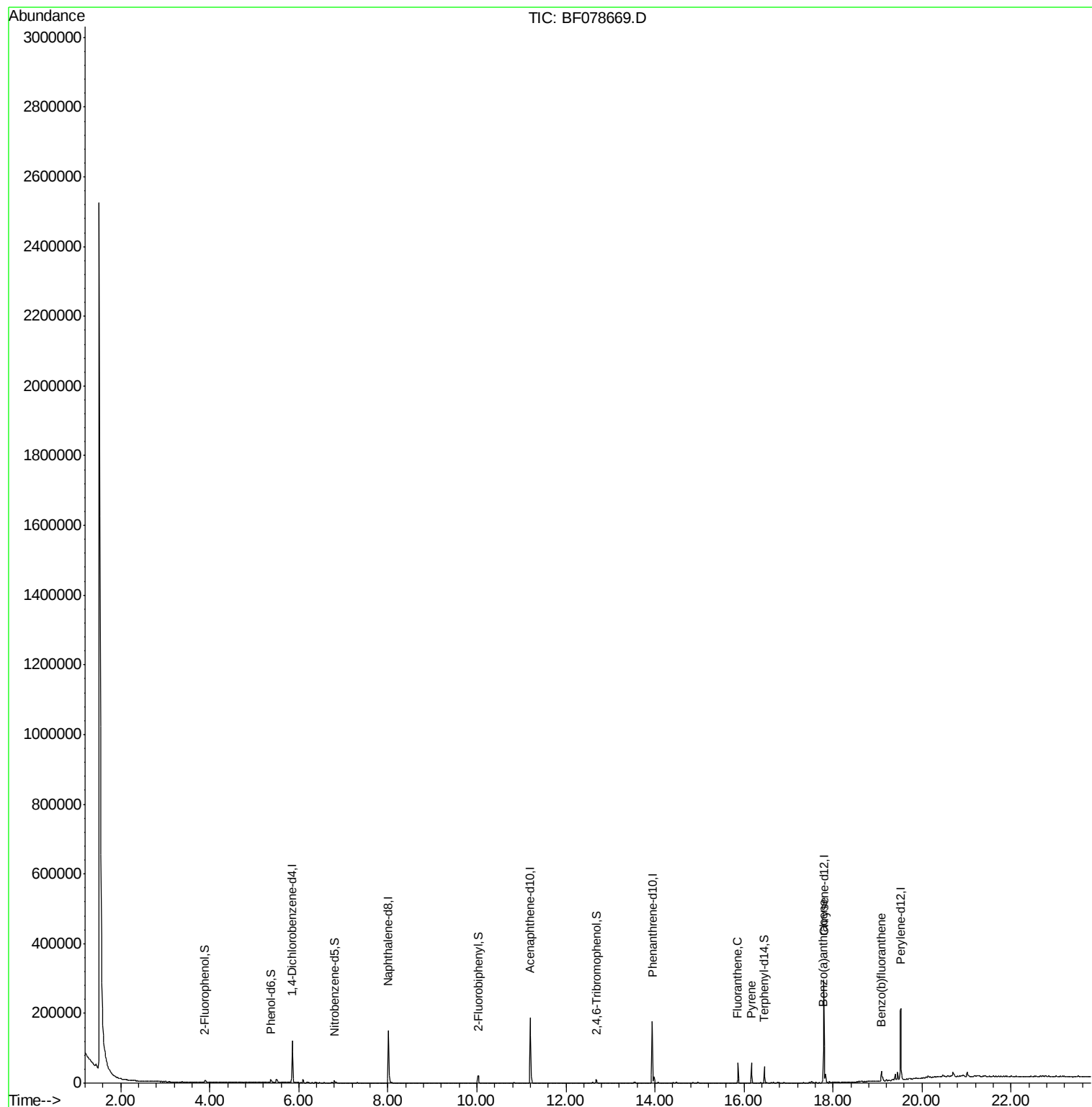
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\  
Data File : BF078669.D  
Acq On : 21 Apr 2015 5:54  
Operator : TP/IZ  
Sample : G1943-03 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

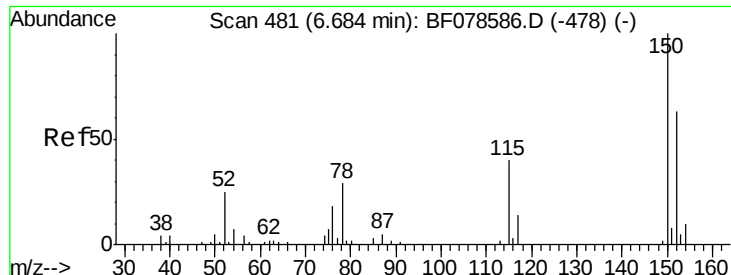
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-3

Quant Time: Apr 21 06:46:30 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 21 03:43:19 2015  
Response via : Initial Calibration

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#1

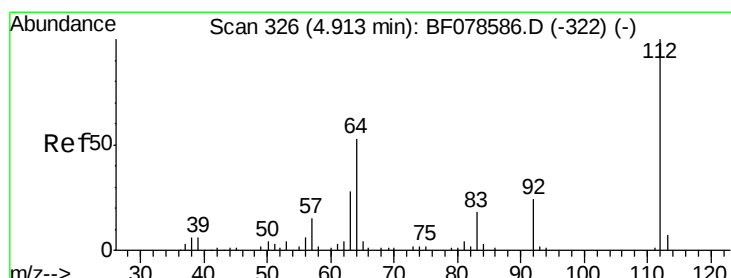
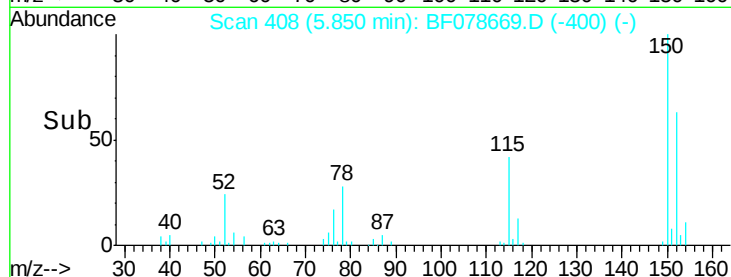
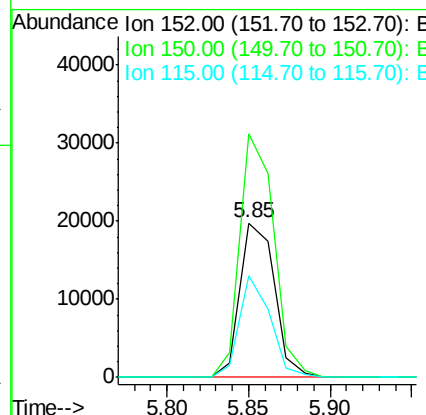
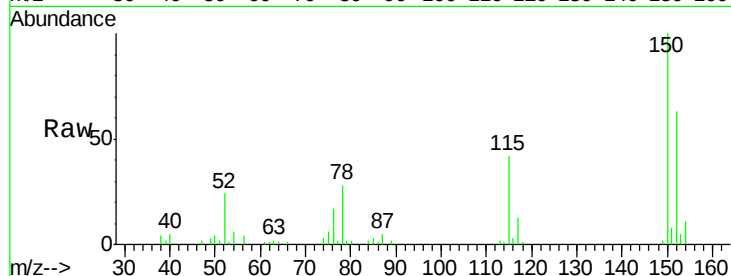
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.85 min Scan# 408  
Delta R.T. -0.01 min  
Lab File: BF078669.D  
Acq: 21 Apr 2015 5:54

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.0 | 125.9 | 188.9 |
| 115     | 65.7  | 52.7  | 79.1  |

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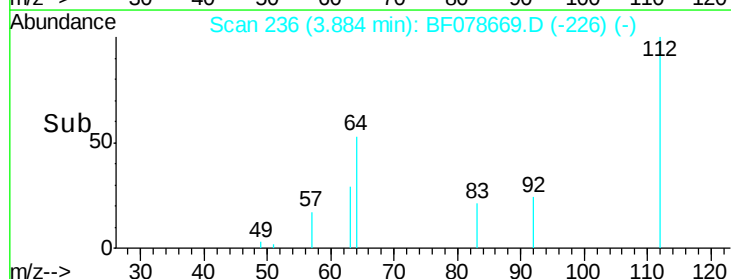
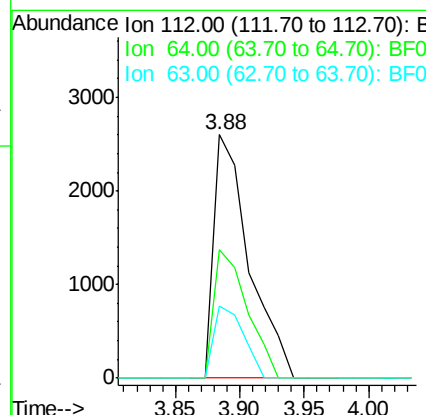
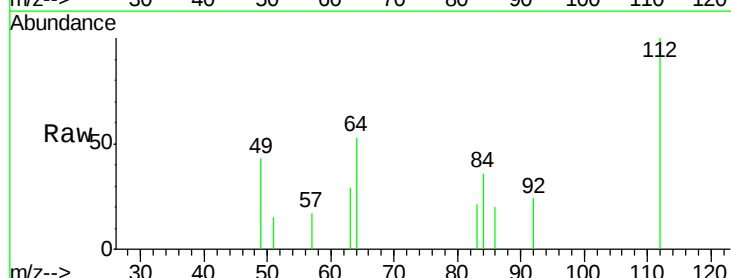
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#5

2-Fluorophenol  
Concen: 2.84 ng m  
RT: 3.88 min Scan# 236  
Delta R.T. 0.01 min  
Lab File: BF078669.D  
Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.5  | 39.9  | 59.9  |
| 63      | 29.4  | 20.2  | 30.4  |





#7

Phenol-d6

Concen: 3.80 ng/mL

RT: 5.37 min Scan# 366

Delta R.T. 0.01 min

Lab File: BF078669.D

Acq: 21 Apr 2015 5:54

Instrument :

BNA\_F

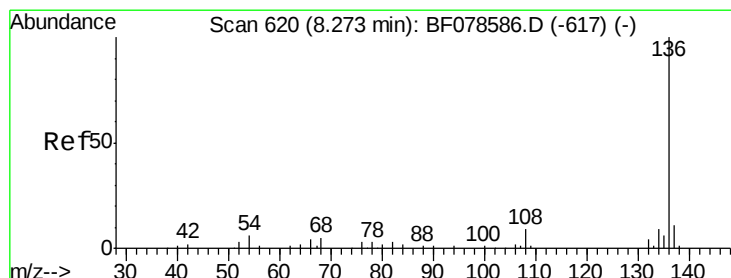
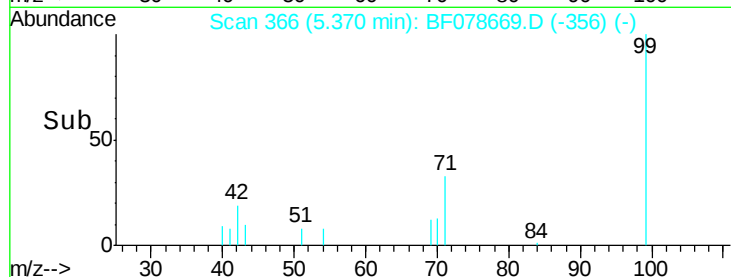
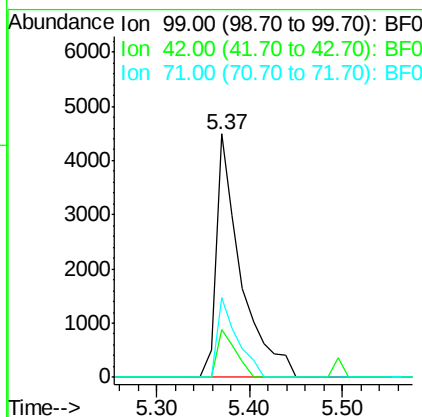
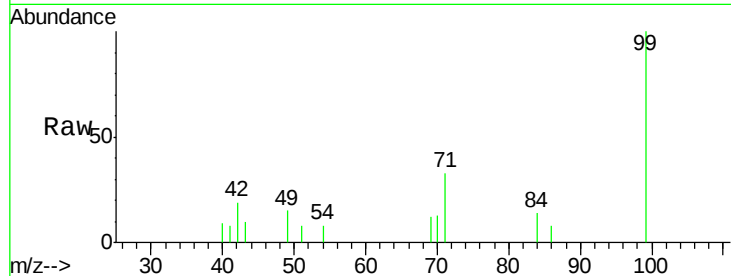
ClientSampleId :

SP-A-3

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 99    | Resp: | 8304 |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 19.4  | 14.8  | 22.2 |
| 71        | 32.9  | 26.6  | 39.8 |

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#21

Naphthalene-d8

Concen: 20.00 ng/mL

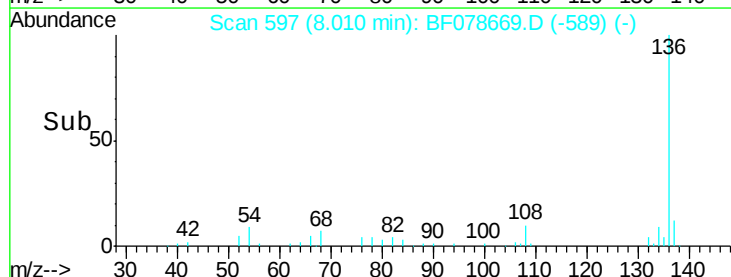
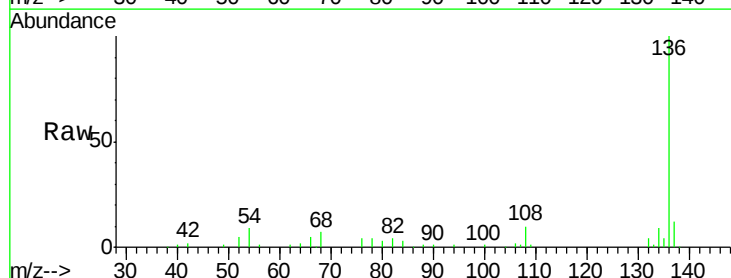
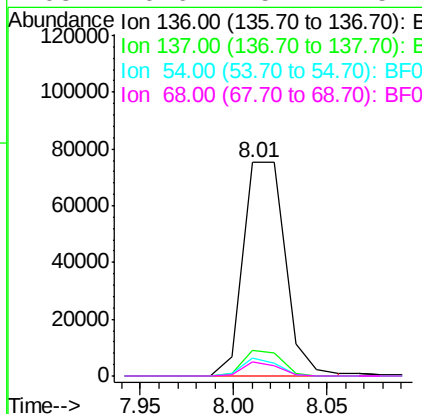
RT: 8.01 min Scan# 597

Delta R.T. -0.01 min

Lab File: BF078669.D

Acq: 21 Apr 2015 5:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 118023 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.8  | 9.0   | 13.4   |
| 54        | 8.5   | 7.0   | 10.6   |
| 68        | 6.6   | 5.4   | 8.2    |





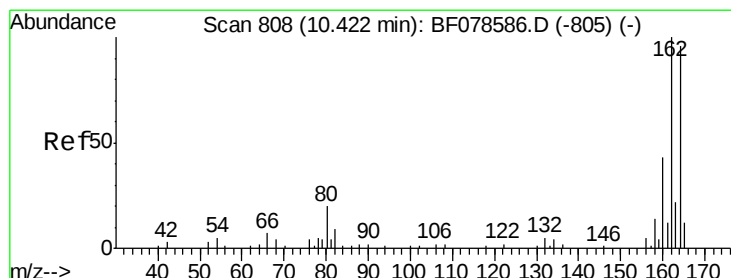
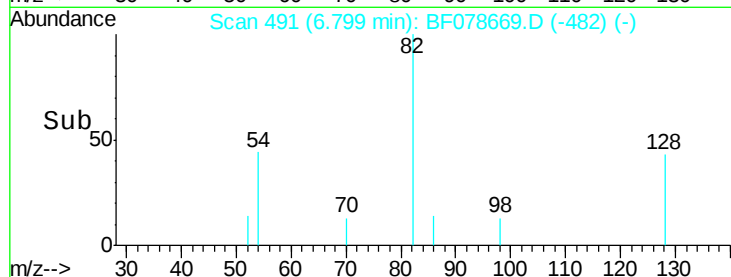
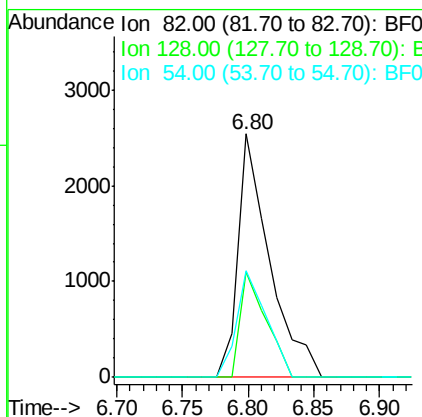
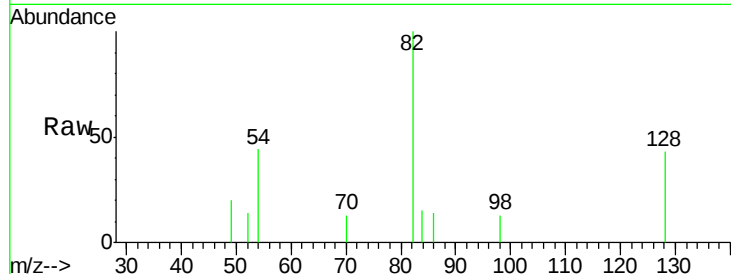
#23  
 Nitrobenzene-d5  
 Concen: 2.19 ng/ml  
 RT: 6.80 min Scan# 491  
 Delta R.T. -0.00 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

Instrument :  
 BNA\_F  
 ClientSampleID :  
 SP-A-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.2  | 31.8  | 47.8  |
| 54      | 43.7  | 41.5  | 62.3  |

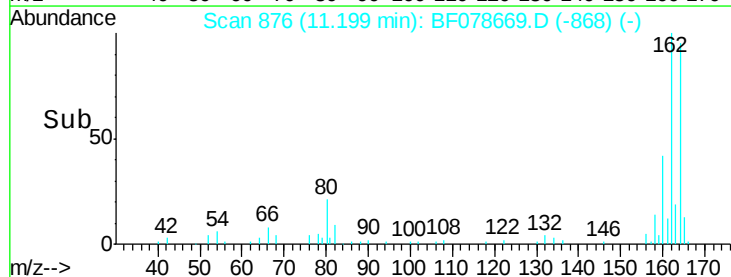
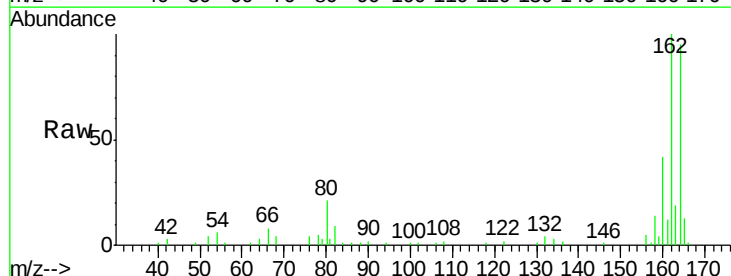
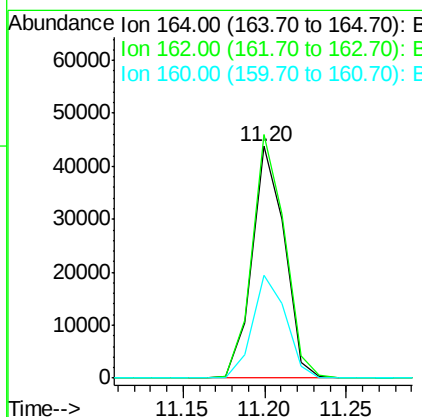
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.20 min Scan# 876  
 Delta R.T. -0.01 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.9 | 82.2  | 123.2 |
| 160     | 44.3  | 34.7  | 52.1  |





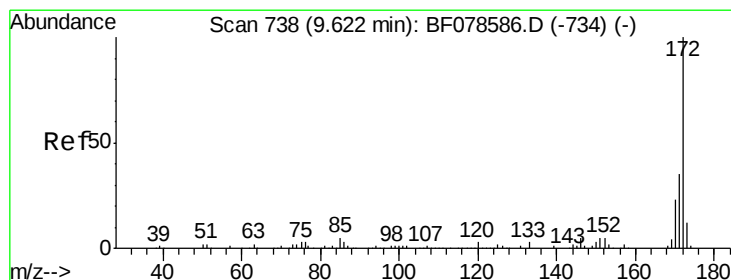
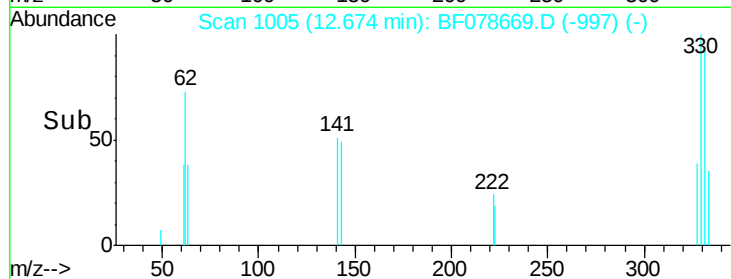
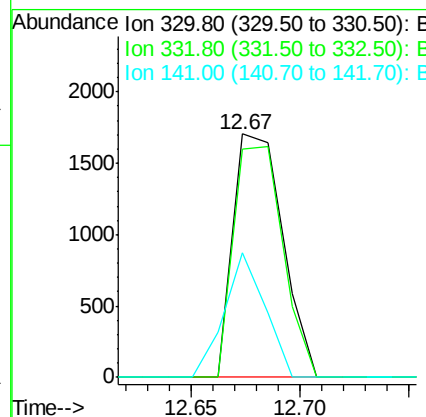
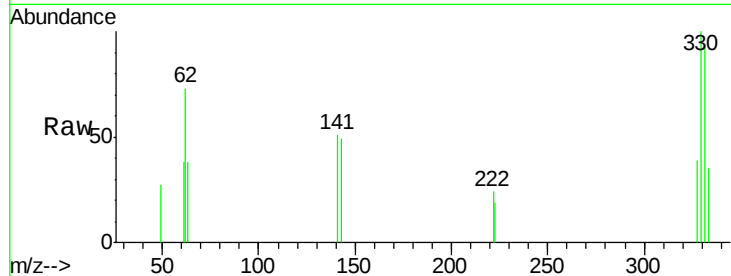
#41  
 2,4,6-Tribromophenol  
 Concen: 5.39 ng  
 RT: 12.67 min Scan# 1005  
 Delta R.T. -0.01 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.3  | 78.6  | 117.8 |
| 141     | 41.8  | 31.2  | 46.8  |

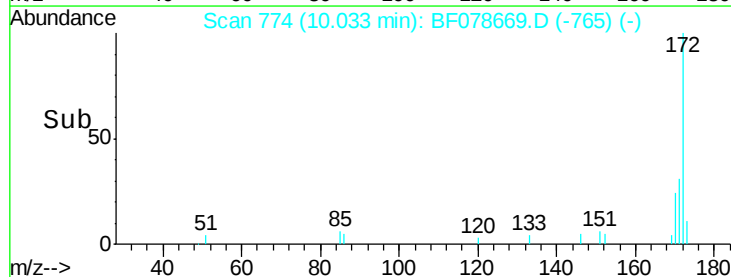
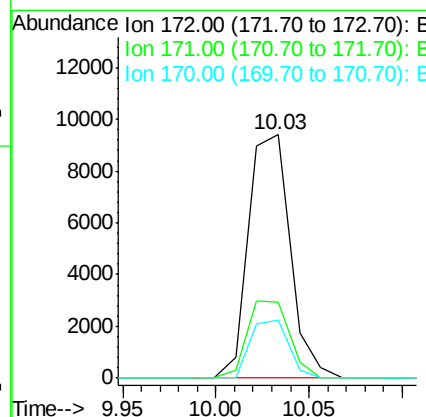
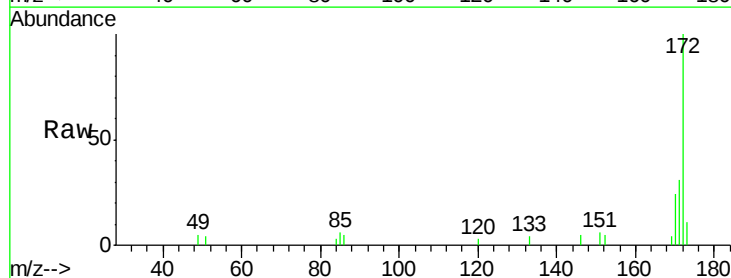
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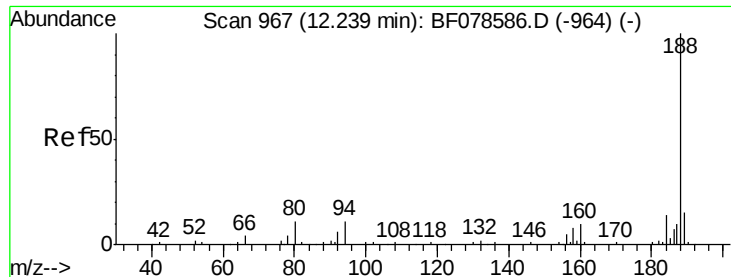
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#44  
 2-Fluorobiphenyl  
 Concen: 3.46 ng  
 RT: 10.03 min Scan# 774  
 Delta R.T. -0.00 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.3  | 28.6  | 42.8  |
| 170     | 23.8  | 18.5  | 27.7  |





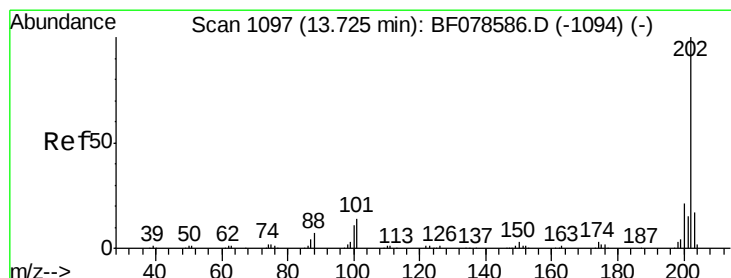
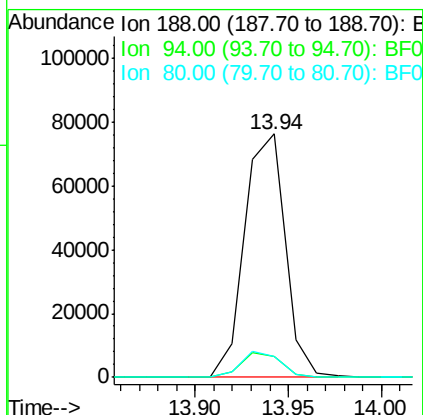
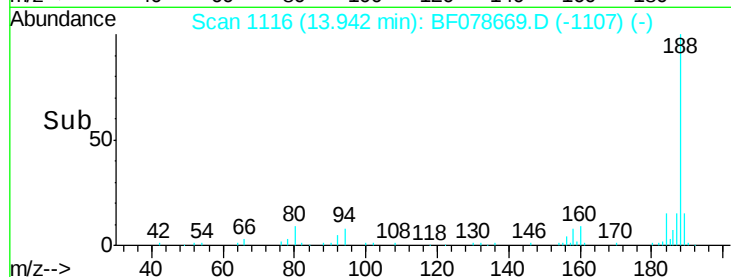
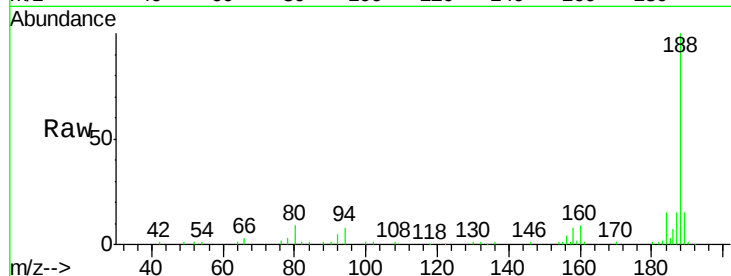
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 13.94 min Scan# 1116  
Delta R.T. -0.00 min  
Lab File: BF078669.D  
Acq: 21 Apr 2015 5:54

Instrument :  
BNA\_F  
ClientSampled :  
SP-A-3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.4   | 9.0        | 13.4# |
| 80      | 8.6   | 9.5        | 14.3# |

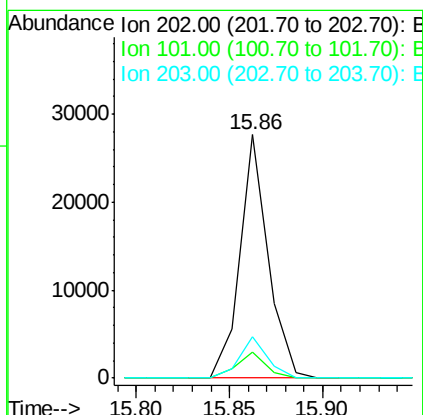
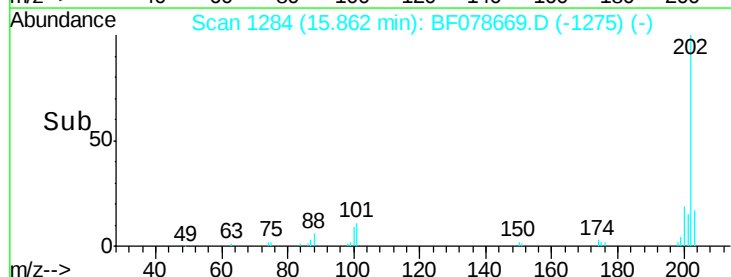
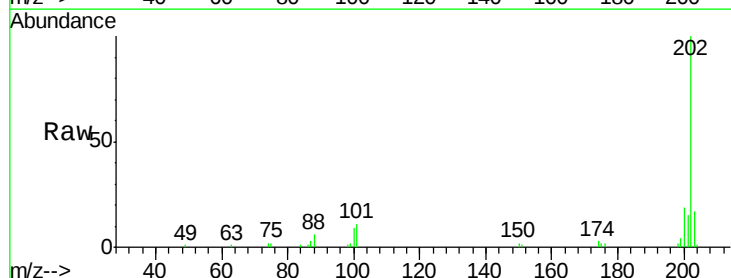
Manual Integrations  
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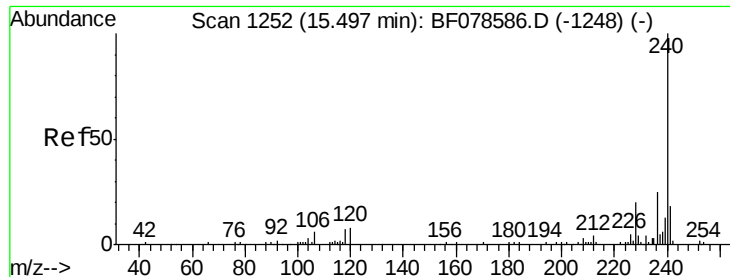
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#74  
Fluoranthene  
Concen: 4.12 ng  
RT: 15.86 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BF078669.D  
Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.9  | 0.0        | 35.2  |
| 203     | 17.0  | 0.0        | 38.5  |





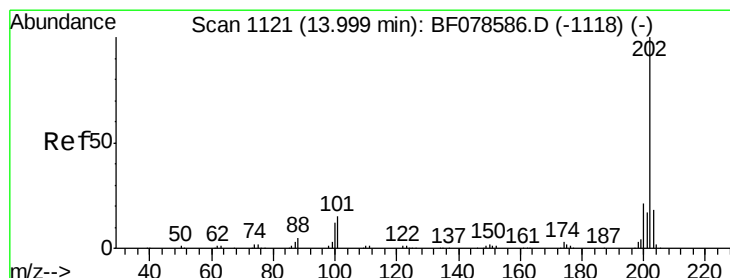
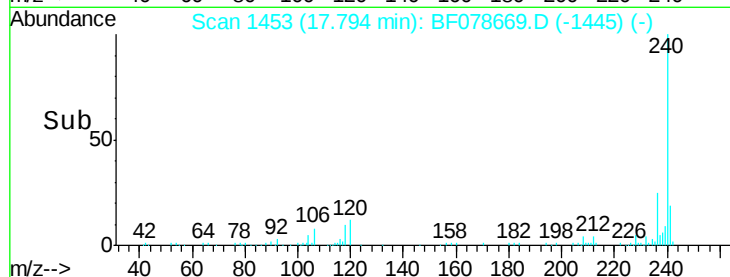
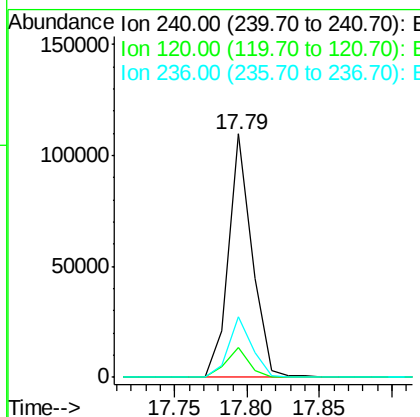
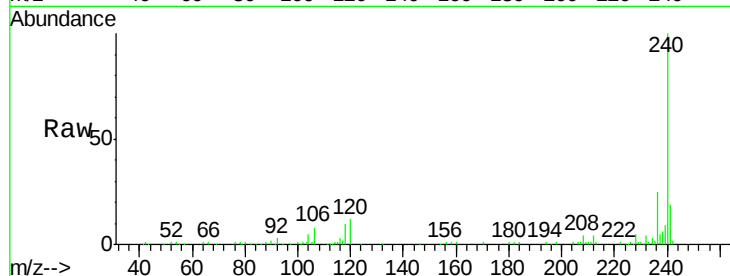
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 17.79 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-3

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 12.2  | 7.1        | 10.7#      |
| 236     | 24.9  | 21.4       | 32.2       |

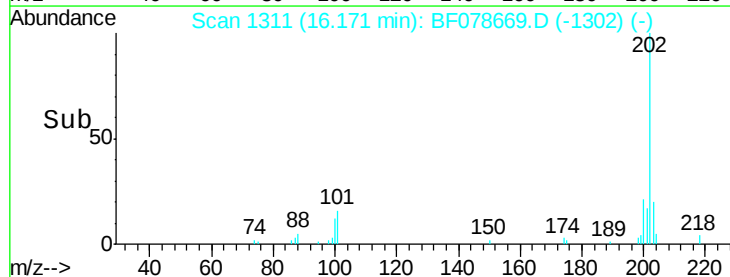
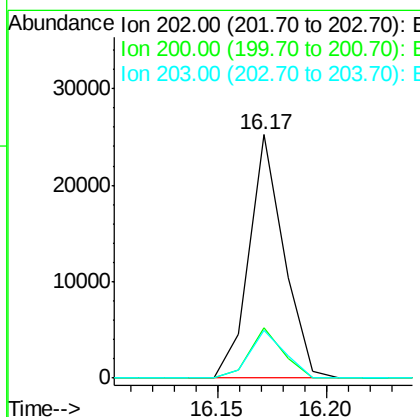
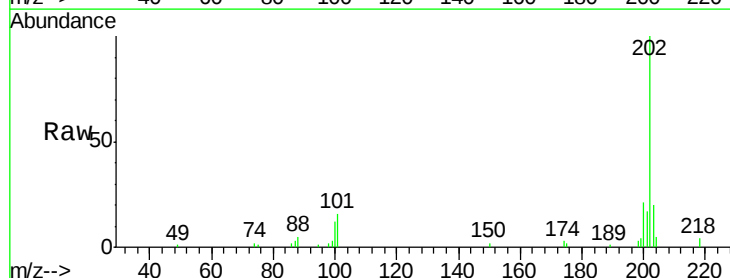
Manual Integrations  
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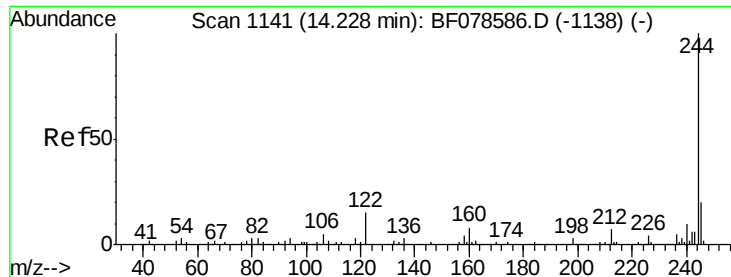
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 4/21/2015 5:04:17 PM



#77  
 Pyrene  
 Concen: 3.62 ng  
 RT: 16.17 min Scan# 1311  
 Delta R.T. -0.00 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.7  | 16.3       | 24.5       |
| 203     | 19.9  | 13.8       | 20.6       |





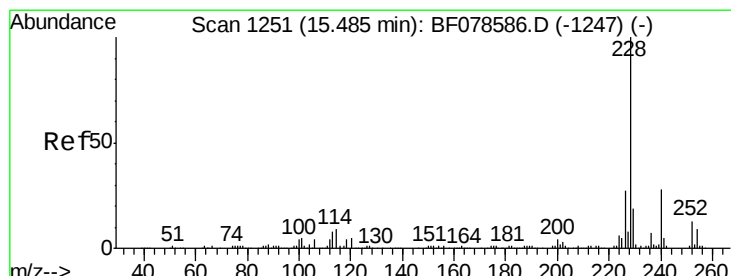
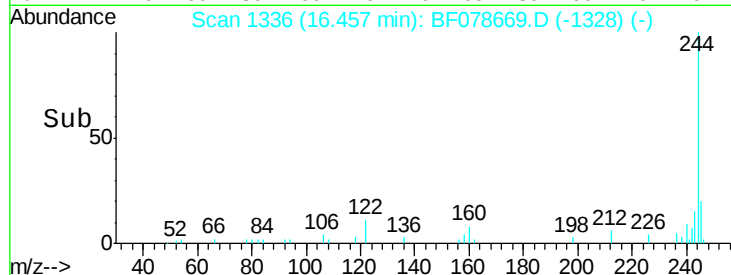
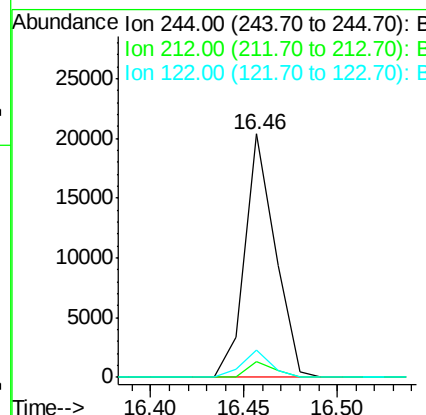
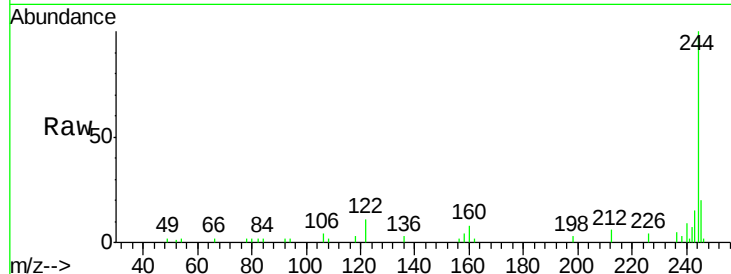
#78  
 Terphenyl-d14  
 Concen: 4.21 ng  
 RT: 16.46 min Scan# 1336  
 Delta R.T. -0.01 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

Instrument :  
 BNA\_F  
 ClientSampleID :  
 SP-A-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.0   | 7.4   |
| 122     | 11.2  | 7.1   | 10.7  |

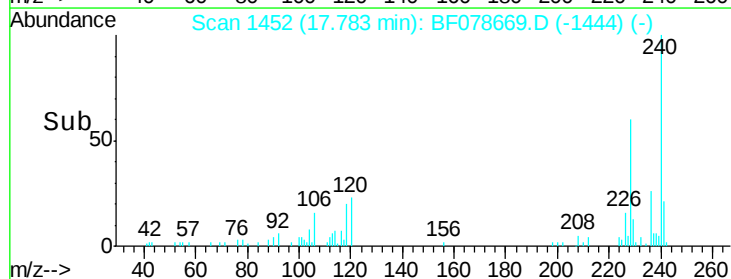
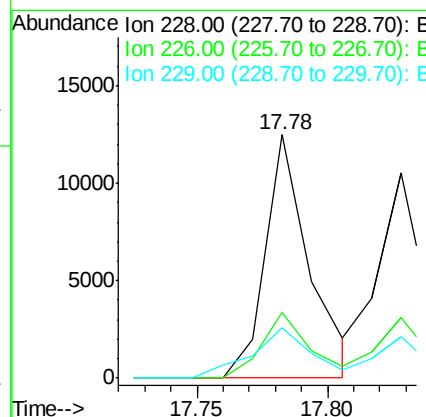
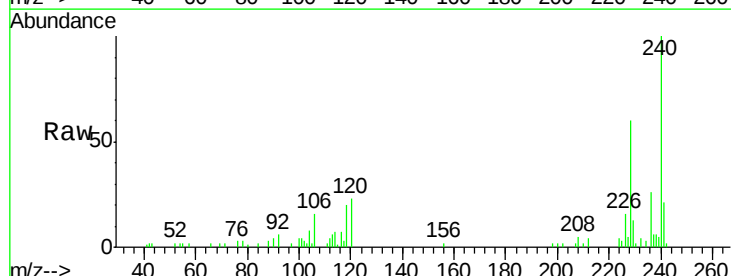
Manual Integrations  
 APPROVED

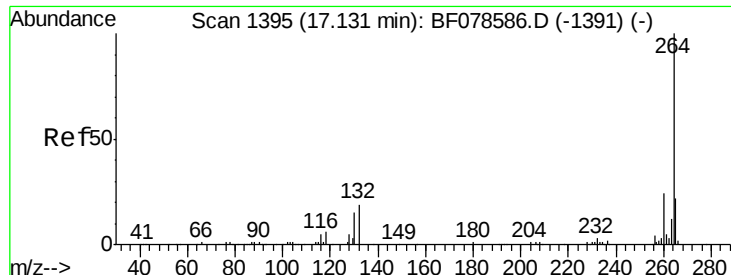
apatel  
 4/21/2015 5:04:17 PM



#80  
 Benzo(a)anthracene  
 Concen: 2.00 ng  
 RT: 17.78 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF078669.D  
 Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.0  | 21.3  | 31.9  |
| 229     | 20.8  | 15.4  | 23.2  |





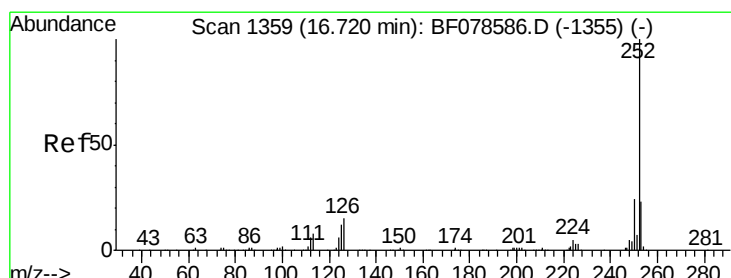
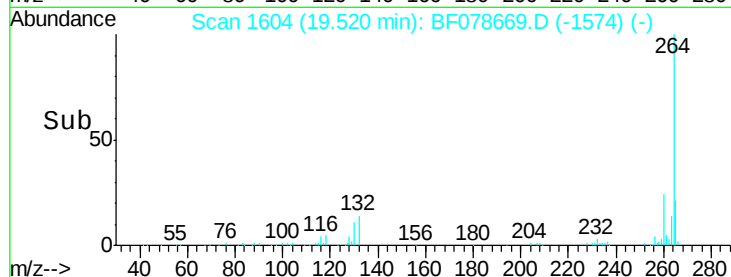
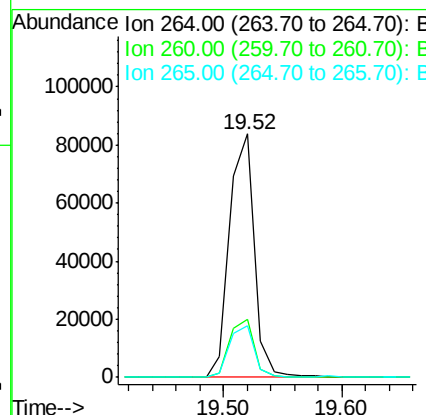
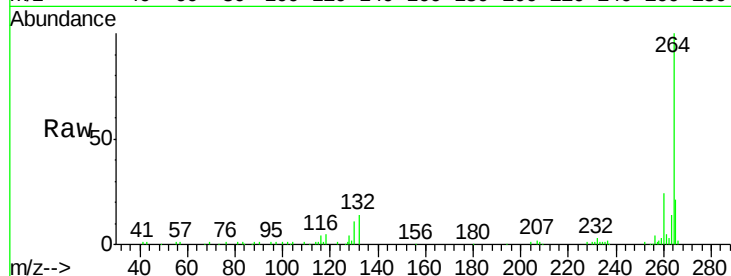
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 19.52 min Scan# 1604  
Delta R.T. 0.05 min  
Lab File: BF078669.D  
Acq: 21 Apr 2015 5:54

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 18.6  | 27.8  |
| 265     | 21.0  | 17.0  | 25.6  |

Manual Integrations  
APPROVED

apatel  
4/21/2015 5:04:17 PM



#87  
Benzo(b)fluoranthene  
Concen: 2.58 ng m  
RT: 19.09 min Scan# 1566  
Delta R.T. 0.02 min  
Lab File: BF078669.D  
Acq: 21 Apr 2015 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.2  | 25.8  |
| 125     | 12.8  | 7.0   | 10.4  |

