

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\  
 Data File : BF089476.D  
 Acq On : 31 Jul 2016 17:49  
 Operator : UM/SJ  
 Sample : H4257-06  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP-6

Manual Integrations  
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 8/1/2016 7:17:41 PM

Quant Time: Aug 01 05:48:49 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 04:11:30 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 41824    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.78  | 136  | 162476   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.52  | 164  | 77534    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 10.99 | 188  | 129014   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.61 | 240  | 75872    | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 14.94 | 264  | 83161    | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.06  | 112  | 353240   | 134.86 | ng    | 0.00     |
| 7) Phenol-d6                | 6.16  | 99   | 502873   | 145.27 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 278367   | 101.13 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.31 | 330  | 84991    | 132.35 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.86  | 172  | 439521   | 83.19  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.57 | 244  | 268541   | 82.84  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.17  | 94   | 9548     | 2.50   | ng    | 83       |
| 49) Dimethylphthalate       | 9.26  | 163  | 88517    | 15.00  | ng    | 99       |
| 74) Fluoranthene            | 12.19 | 202  | 17880    | 2.55   | ng    | 98       |
| 77) Pyrene                  | 12.42 | 202  | 12957    | 2.25   | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.61 | 252  | 10481m   | 2.03   | ng    |          |

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

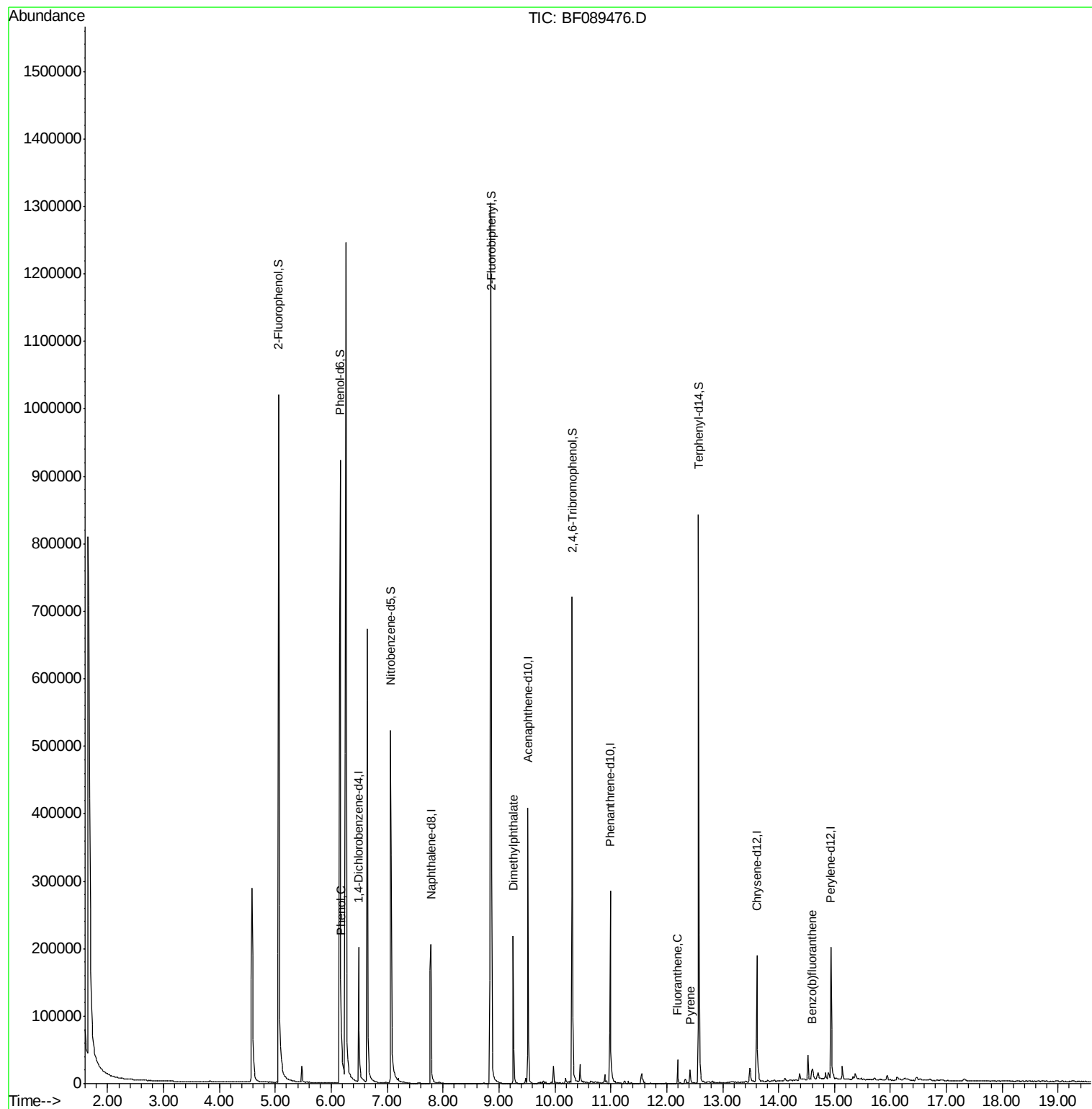
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\  
Data File : BF089476.D  
Acq On : 31 Jul 2016 17:49  
Operator : UM/SJ  
Sample : H4257-06  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

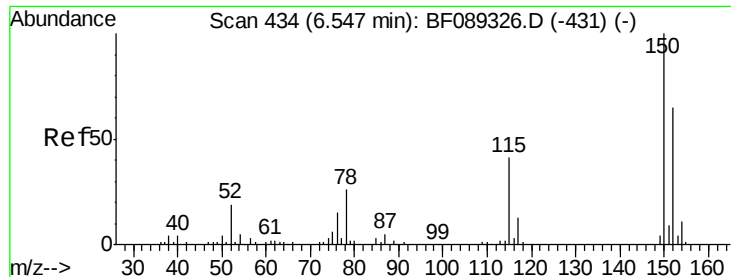
Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP-6

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Quant Time: Aug 01 05:48:49 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 01 04:11:30 2016  
Response via : Initial Calibration





#1

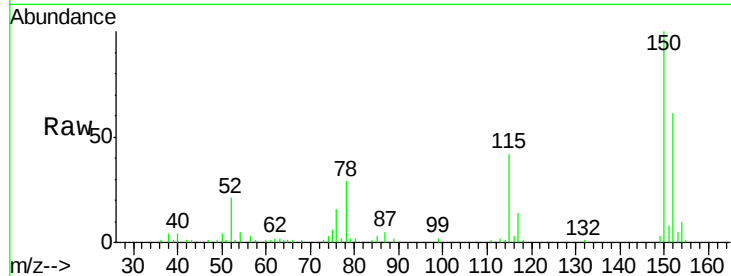
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.49 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: BF089476.D  
Acq: 31 Jul 2016 17:49

Instrument :  
BNA\_F  
ClientSampled :  
TEC-COMP-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.8 | 129.5 | 194.3 |
| 115     | 68.6  | 51.4  | 77.2  |

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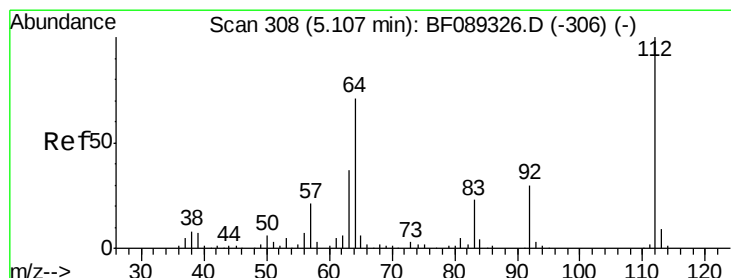
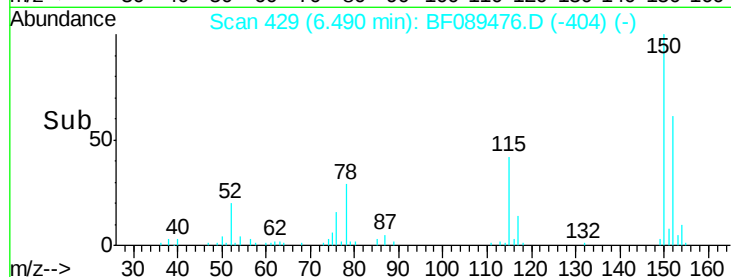
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

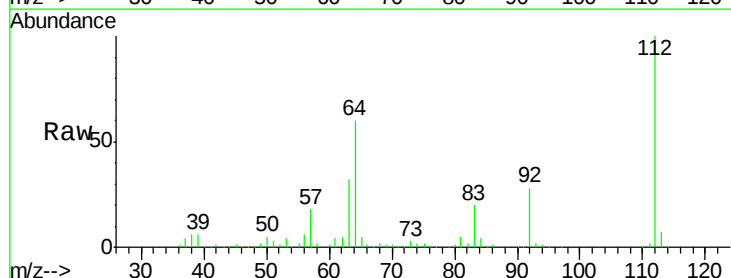
Time-->



#5

2-Fluorophenol  
Concen: 134.86 ng  
RT: 5.06 min Scan# 304  
Delta R.T. 0.00 min  
Lab File: BF089476.D  
Acq: 31 Jul 2016 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.7  | 55.0  | 82.6  |
| 63      | 32.0  | 29.4  | 44.2  |



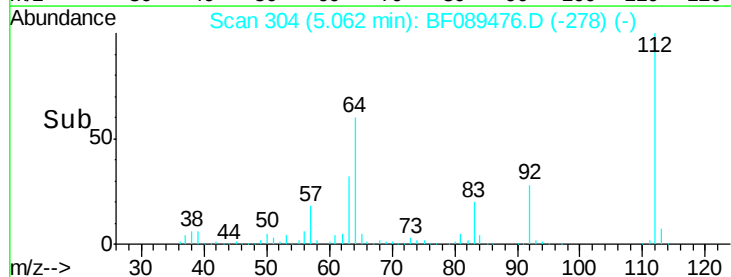
Abundance

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

Time-->





#7

Phenol-d6

Concen: 145.27 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

Instrument :

BNA\_F

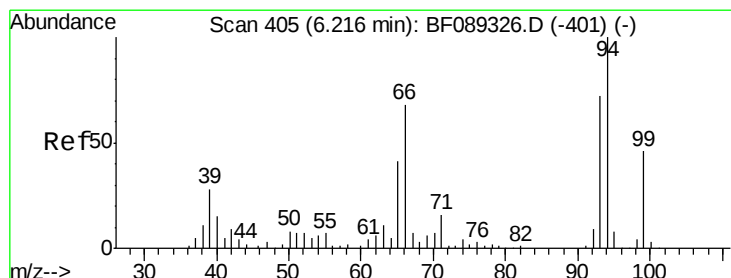
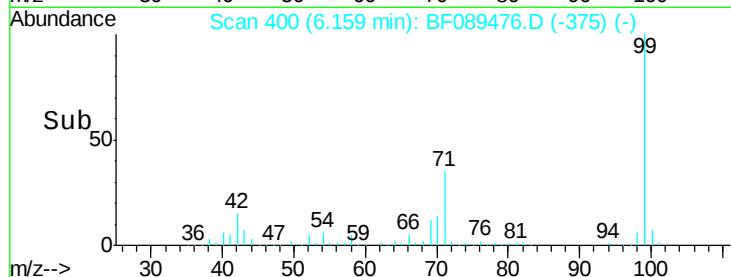
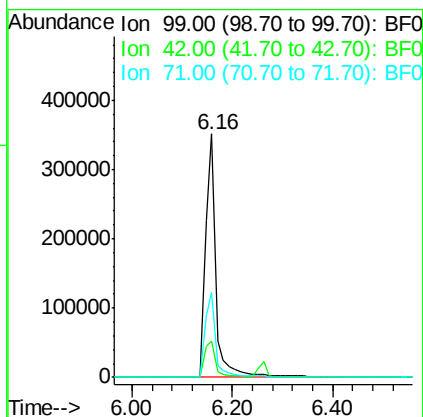
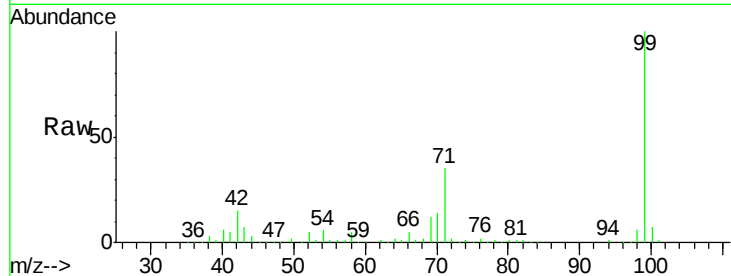
ClientSampleId :

TEC-COMP-6

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 502873 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 15.1  | 13.6  | 20.4   |
| 71       | 34.8  | 29.4  | 44.2   |

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#10

Phenol

Concen: 2.50 ng

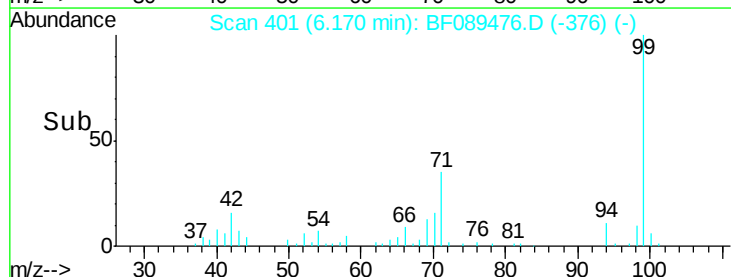
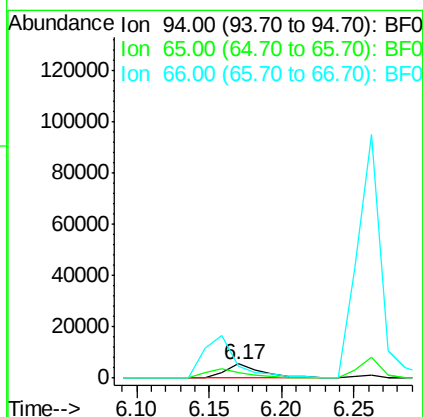
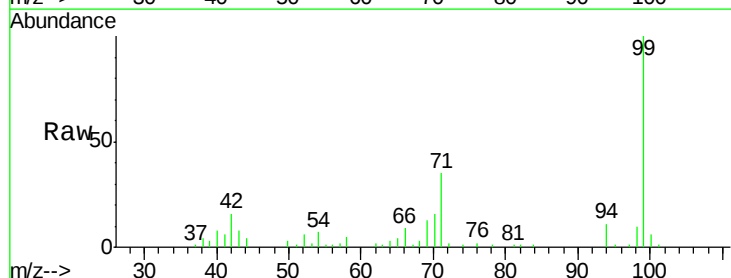
RT: 6.17 min Scan# 401

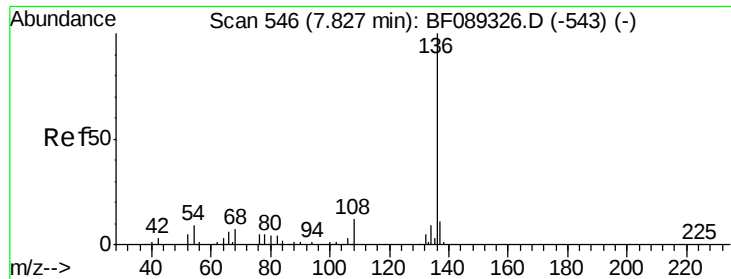
Delta R.T. -0.01 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 9548  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 36.8  | 19.1  | 59.1  |
| 66       | 83.6  | 44.4  | 84.4  |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.01 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

Instrument :

BNA\_F

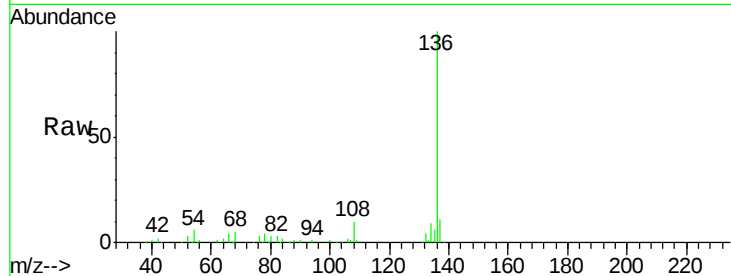
ClientSampleId :

TEC-COMP-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 162476 |       |       |
| 137     | 10.5  | 8.6    | 13.0  |       |
| 54      | 5.9   | 7.0    | 10.4  |       |
| 68      | 4.5   | 4.9    | 7.3   |       |

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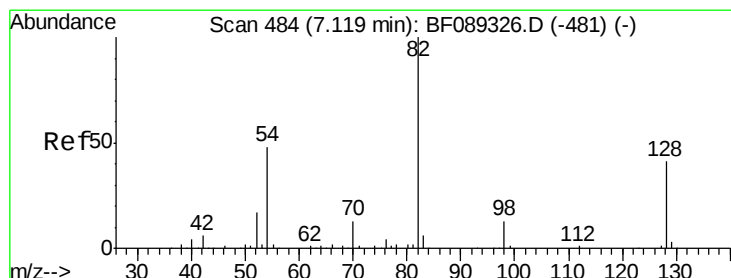
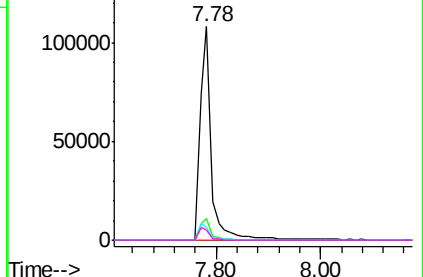
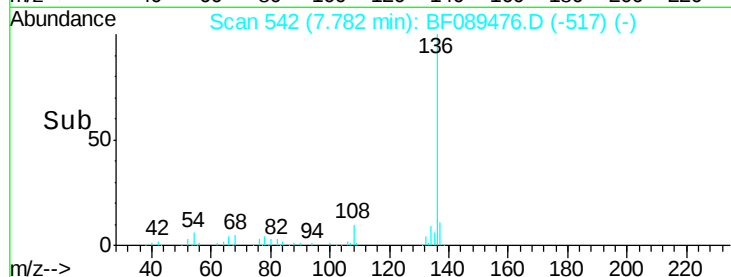


Abundance Ion 136.00 (135.70 to 136.70): E

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: 101.13 ng

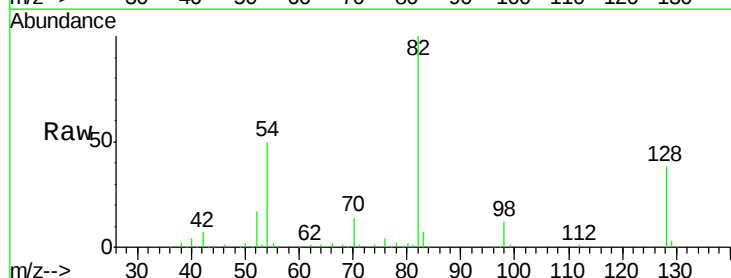
RT: 7.06 min Scan# 479

Delta R.T. -0.02 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

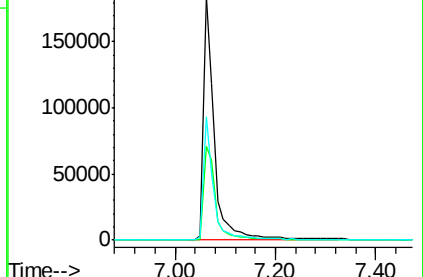
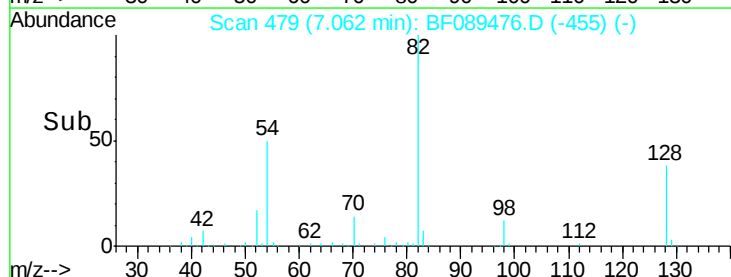
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 278367 |       |       |
| 128     | 38.5  | 32.5   | 48.7  |       |
| 54      | 50.4  | 38.8   | 58.2  |       |

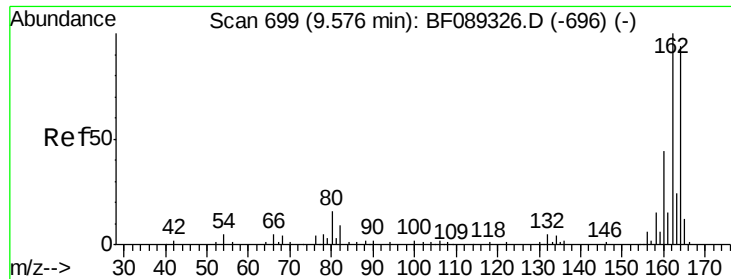


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.52 min Scan# 694

Delta R.T. -0.01 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

TEC-COMP-6

Tot Ion:164 Resp: 77534

Ion Ratio Lower Upper

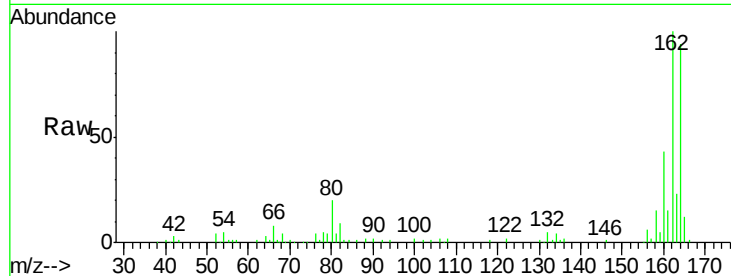
164 100

162 106.3 83.7 125.5

160 46.2 37.8 56.6

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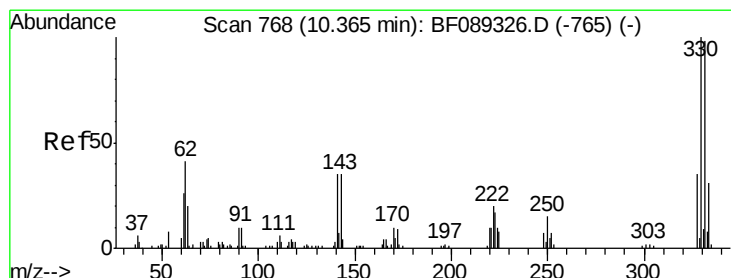
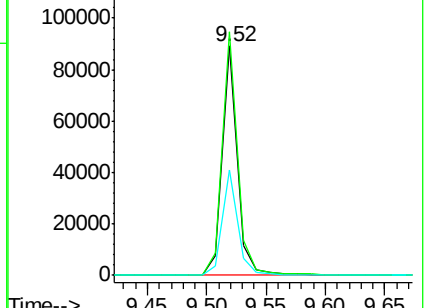
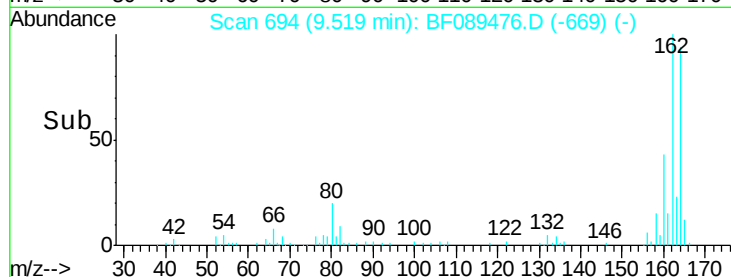
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 132.35 ng

RT: 10.31 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

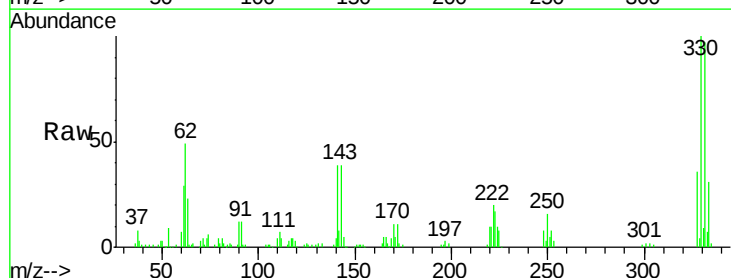
Tgt Ion:330 Resp: 84991

Ion Ratio Lower Upper

330 100

332 95.8 76.8 115.2

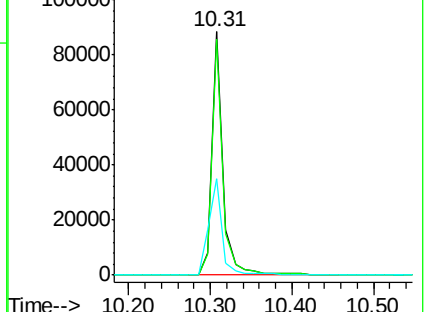
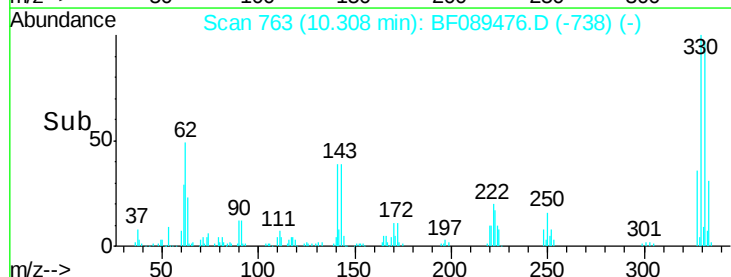
141 47.8 37.3 55.9

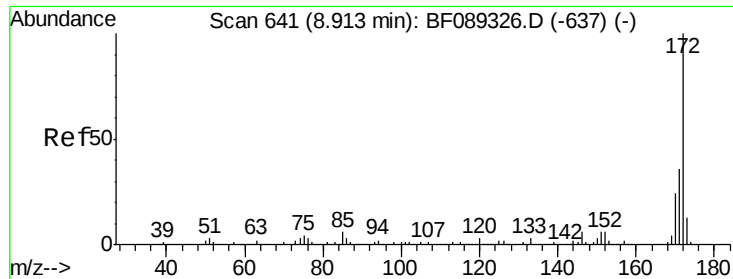


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





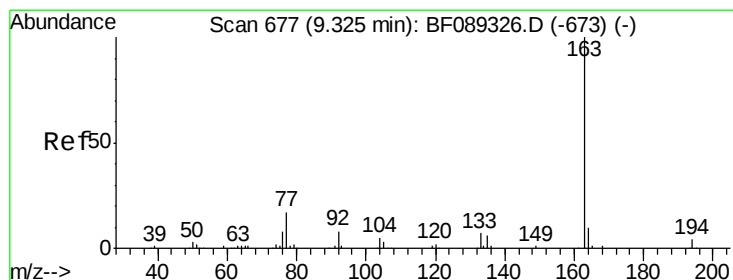
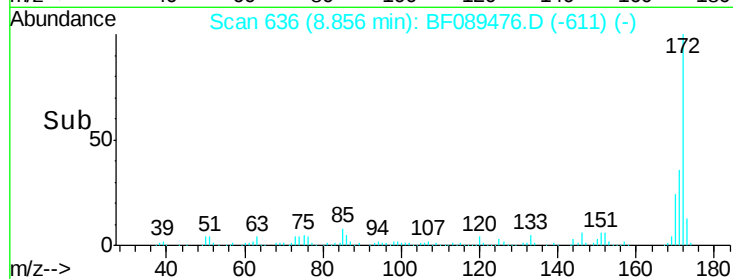
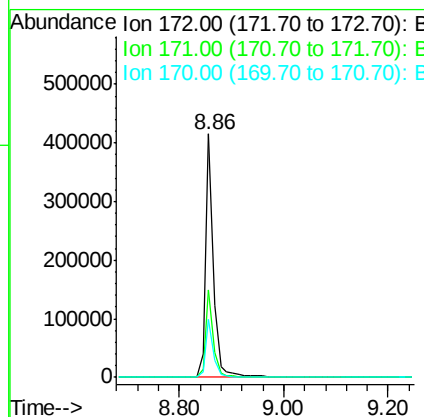
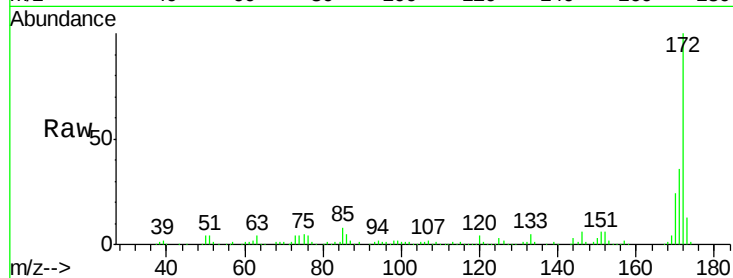
#44  
2-Fluorobiphenyl  
Concen: 83.19 ng  
RT: 8.86 min Scan# 636  
Delta R.T. -0.01 min  
Lab File: BF089476.D  
Acq: 31 Jul 2016 17:49

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.2  | 43.8  |
| 170     | 23.7  | 19.2  | 28.8  |

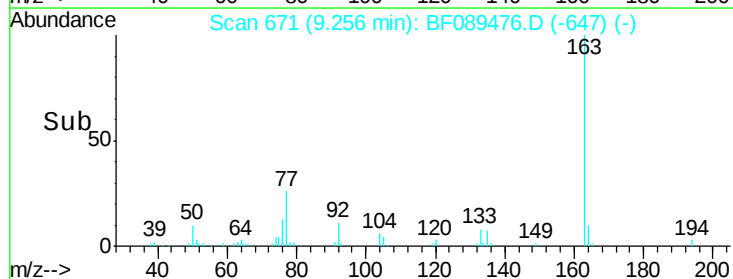
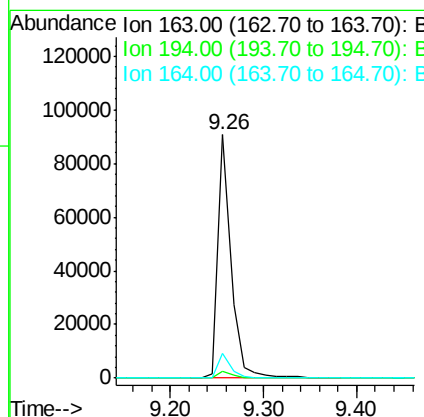
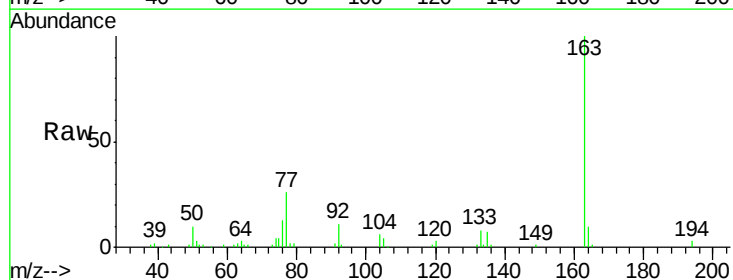
Manual Integrations  
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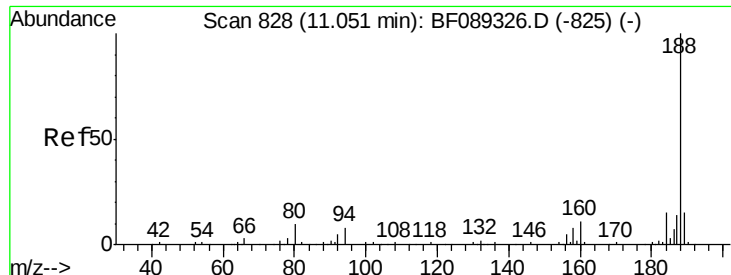
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#49  
Dimethylphthalate  
Concen: 15.00 ng  
RT: 9.26 min Scan# 671  
Delta R.T. -0.02 min  
Lab File: BF089476.D  
Acq: 31 Jul 2016 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 2.9   | 2.8   | 4.2   |
| 164     | 10.3  | 7.8   | 11.8  |





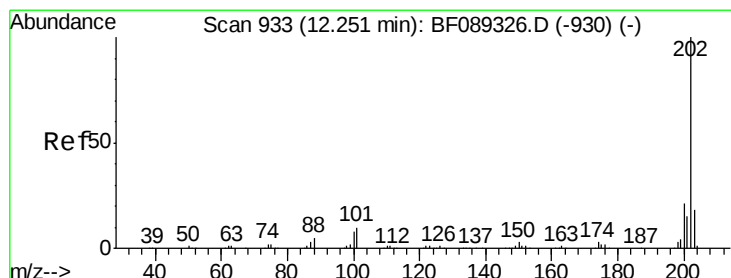
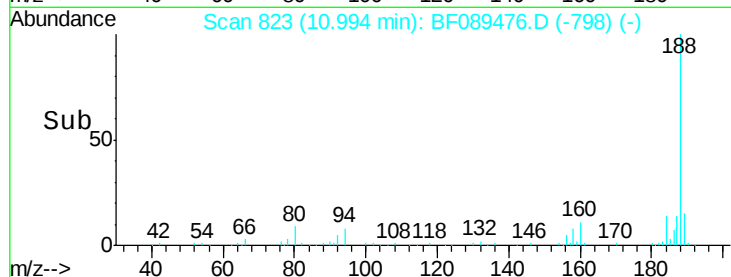
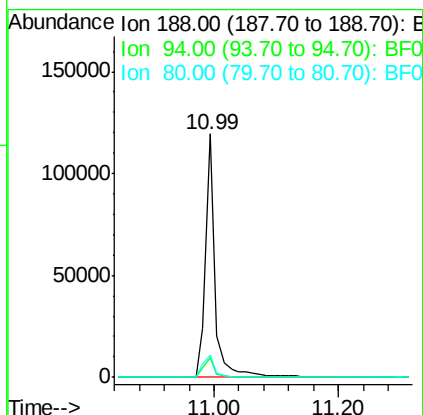
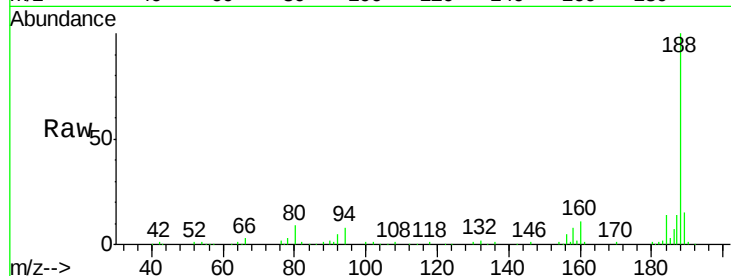
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.99 min Scan# 823  
Delta R.T. -0.01 min  
Lab File: BF089476.D  
Acq: 31 Jul 2016 17:49

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 129014 |       |       |
| 94      | 8.1   |        | 6.5   | 9.7   |
| 80      | 8.9   |        | 7.2   | 10.8  |

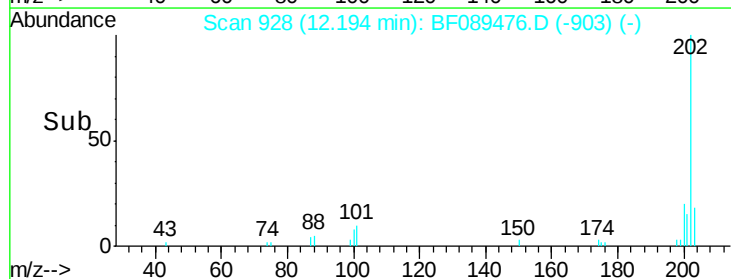
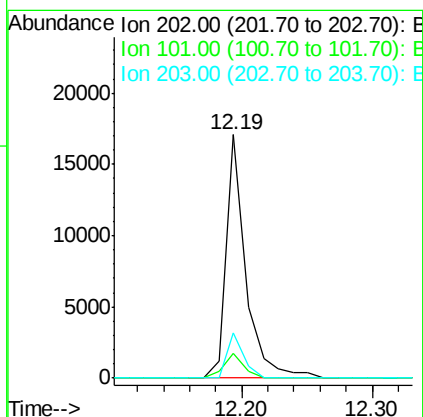
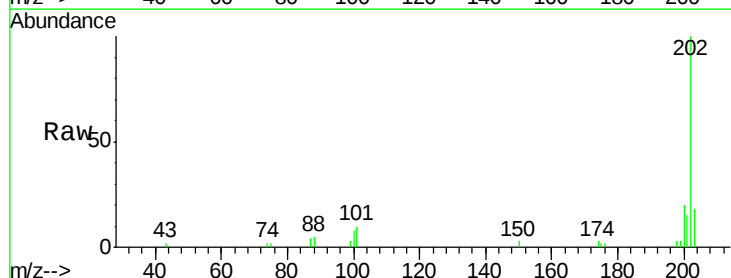
Manual Integrations  
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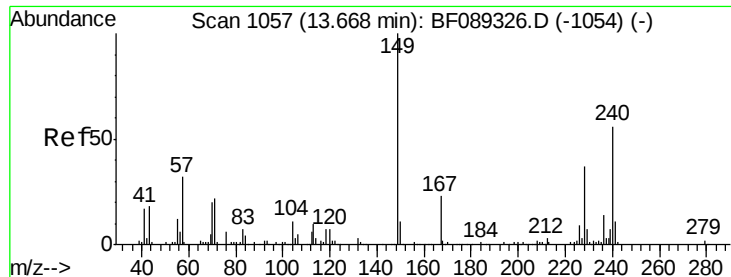
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#74  
Fluoranthene  
Concen: 2.55 ng  
RT: 12.19 min Scan# 928  
Delta R.T. -0.01 min  
Lab File: BF089476.D  
Acq: 31 Jul 2016 17:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 17880 |       |       |
| 101     | 10.2  |       | 0.0   | 29.9  |
| 203     | 18.5  |       | 0.0   | 37.3  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF089476.D

Acq: 31 Jul 2016 17:49

Instrument :

BNA\_F

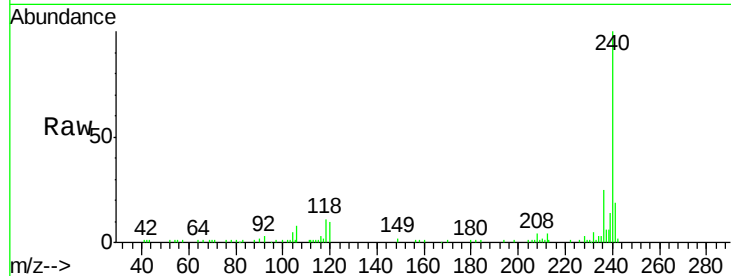
ClientSampleId :

TEC-COMP-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.0  | 9.1   | 13.7  |
| 236     | 24.8  | 20.6  | 30.8  |

Manual Integrations  
APPROVED

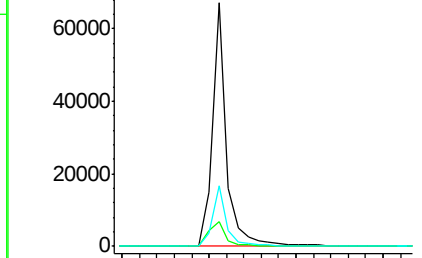
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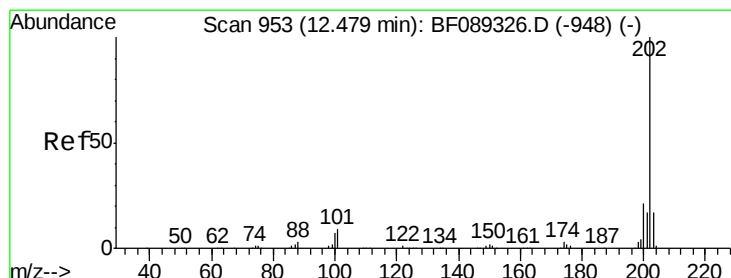
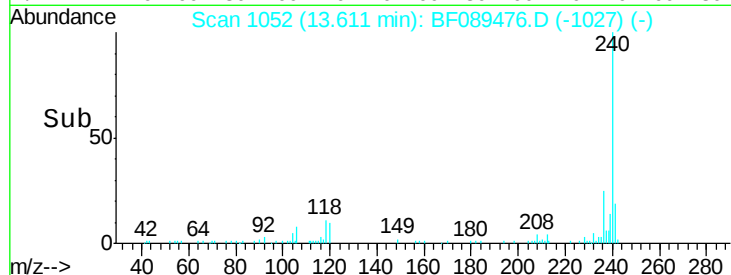
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 2.25 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.01 min

Lab File: BF089476.D

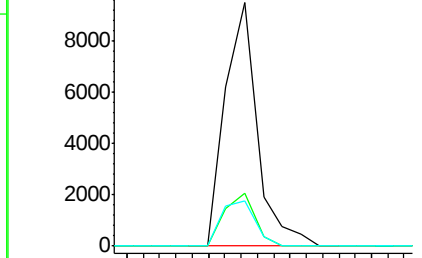
Acq: 31 Jul 2016 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 16.9  | 25.3  |
| 203     | 18.6  | 14.0  | 21.0  |

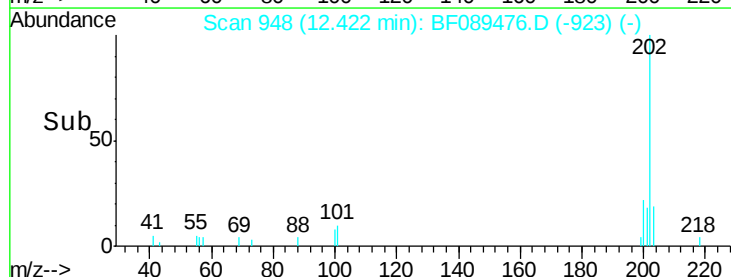
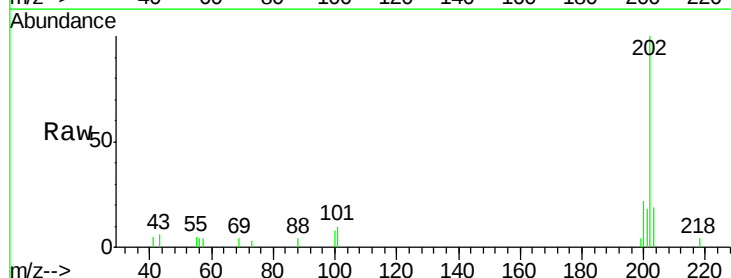
Abundance Ion 202.00 (201.70 to 202.70): E

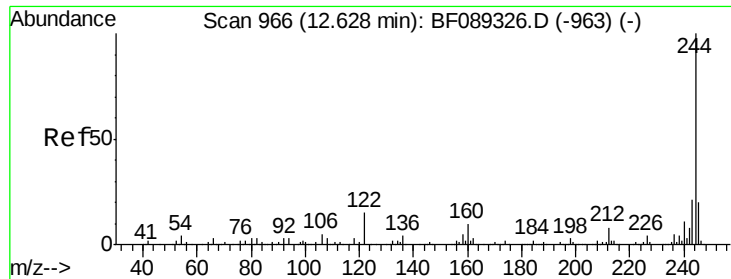
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





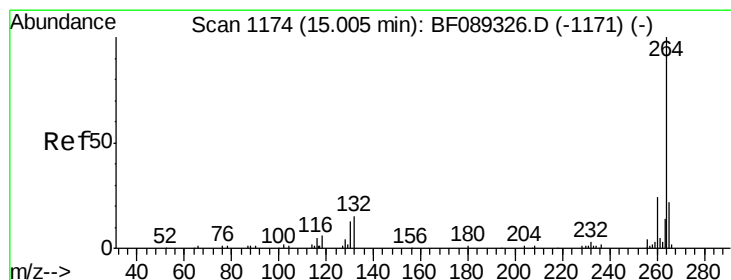
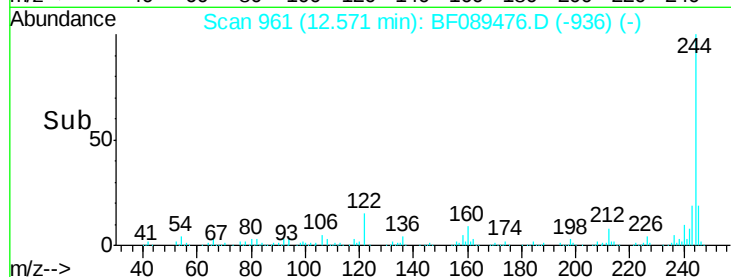
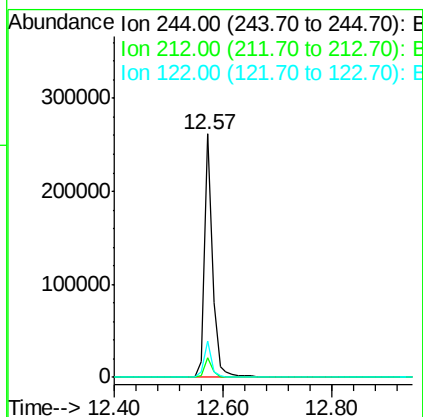
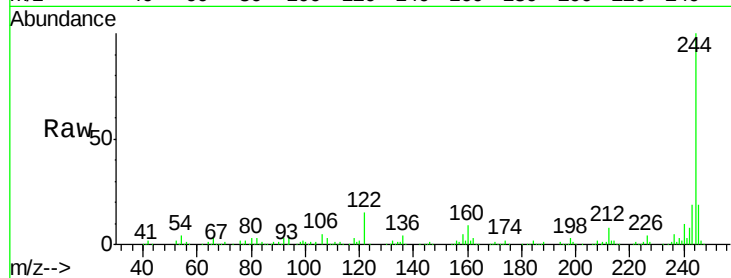
#78  
 Terphenyl-d14  
 Concen: 82.84 ng  
 RT: 12.57 min Scan# 961  
 Delta R.T. -0.01 min  
 Lab File: BF089476.D  
 Acq: 31 Jul 2016 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.0   | 6.5   | 9.7   |
| 122     | 15.0  | 11.4  | 17.0  |

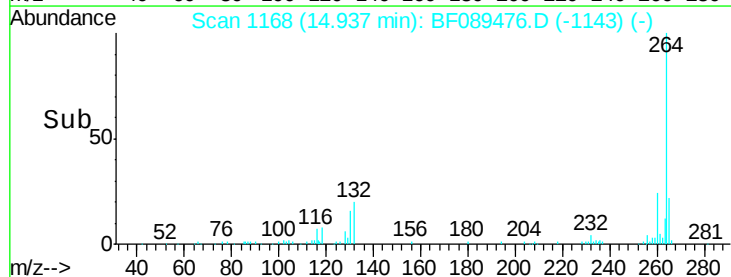
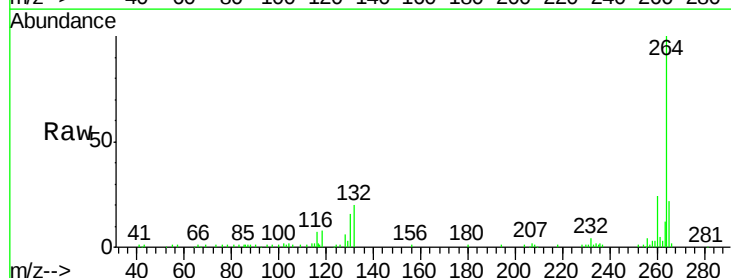
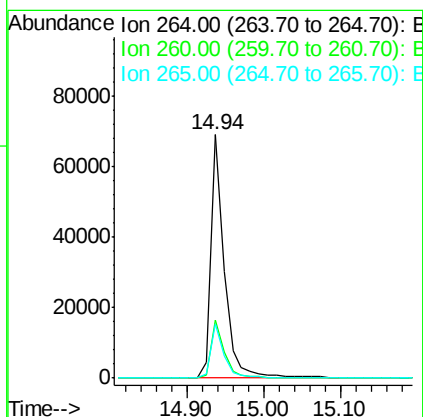
Manual Integrations  
 APPROVED

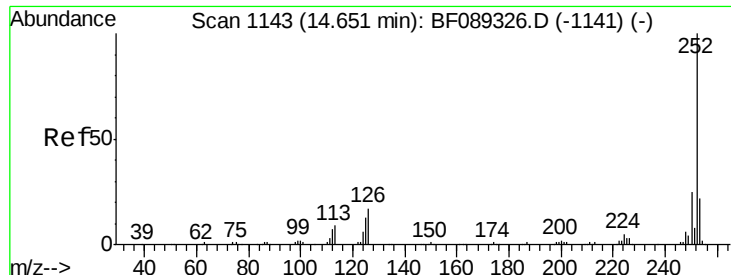
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.94 min Scan# 1168  
 Delta R.T. -0.01 min  
 Lab File: BF089476.D  
 Acq: 31 Jul 2016 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.0  | 28.4  |
| 265     | 22.2  | 17.5  | 26.3  |





#87  
 Benzo(b)fluoranthene  
 Concen: 2.03 ng m  
 RT: 14.61 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: BF089476.D  
 Acq: 31 Jul 2016 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.2  | 25.8  |
| 125     | 14.3  | 9.7   | 14.5  |

Manual Integrations  
 APPROVED

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