

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF103116\  
 Data File : BF090928.D  
 Acq On : 31 Oct 2016 15:16  
 Operator : UM/SJ  
 Sample : H5423-07 2X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

Manual Integrations  
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Quant Time: Nov 01 14:54:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 01 11:53:50 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.75  | 152  | 182755   | 20.00 | ng    | 0.00           |
| 21) Naphthalene-d8          | 8.03  | 136  | 645289   | 20.00 | ng    | -0.01          |
| 38) Acenaphthene-d10        | 9.78  | 164  | 324840   | 20.00 | ng    | -0.01          |
| 63) Phenanthrene-d10        | 11.26 | 188  | 476153   | 20.00 | ng    | 0.00           |
| 75) Chrysene-d12            | 13.91 | 240  | 466842   | 20.00 | ng    | 0.00           |
| 86) Perylene-d12            | 15.30 | 264  | 472249   | 20.00 | ng    | 0.00           |
| System Monitoring Compounds |       |      |          |       |       |                |
| 5) 2-Fluorophenol           | 5.33  | 112  | 478353   | 45.76 | ng    | 0.00           |
| 7) Phenol-d6                | 6.38  | 99   | 705664   | 50.04 | ng    | -0.01          |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 417371   | 42.34 | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 76978    | 23.06 | ng    | -0.01          |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 631511   | 34.14 | ng    | -0.01          |
| 78) Terphenyl-d14           | 12.85 | 244  | 508194   | 27.43 | ng    | 0.00           |
| Target Compounds            |       |      |          |       |       |                |
| 49) Dimethylphthalate       | 9.50  | 163  | 217583   | 10.03 | ng    | Qvalue<br># 97 |
| 74) Fluoranthene            | 12.48 | 202  | 83476    | 3.14  | ng    | 92             |
| 77) Pyrene                  | 12.71 | 202  | 105097   | 3.56  | ng    | 97             |
| 80) Benzo(a)anthracene      | 13.89 | 228  | 64033m   | 2.58  | ng    |                |
| 82) Chrysene                | 13.93 | 228  | 54684m   | 2.18  | ng    |                |
| 87) Benzo(b)fluoranthene    | 14.91 | 252  | 70284m   | 2.21  | ng    |                |

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

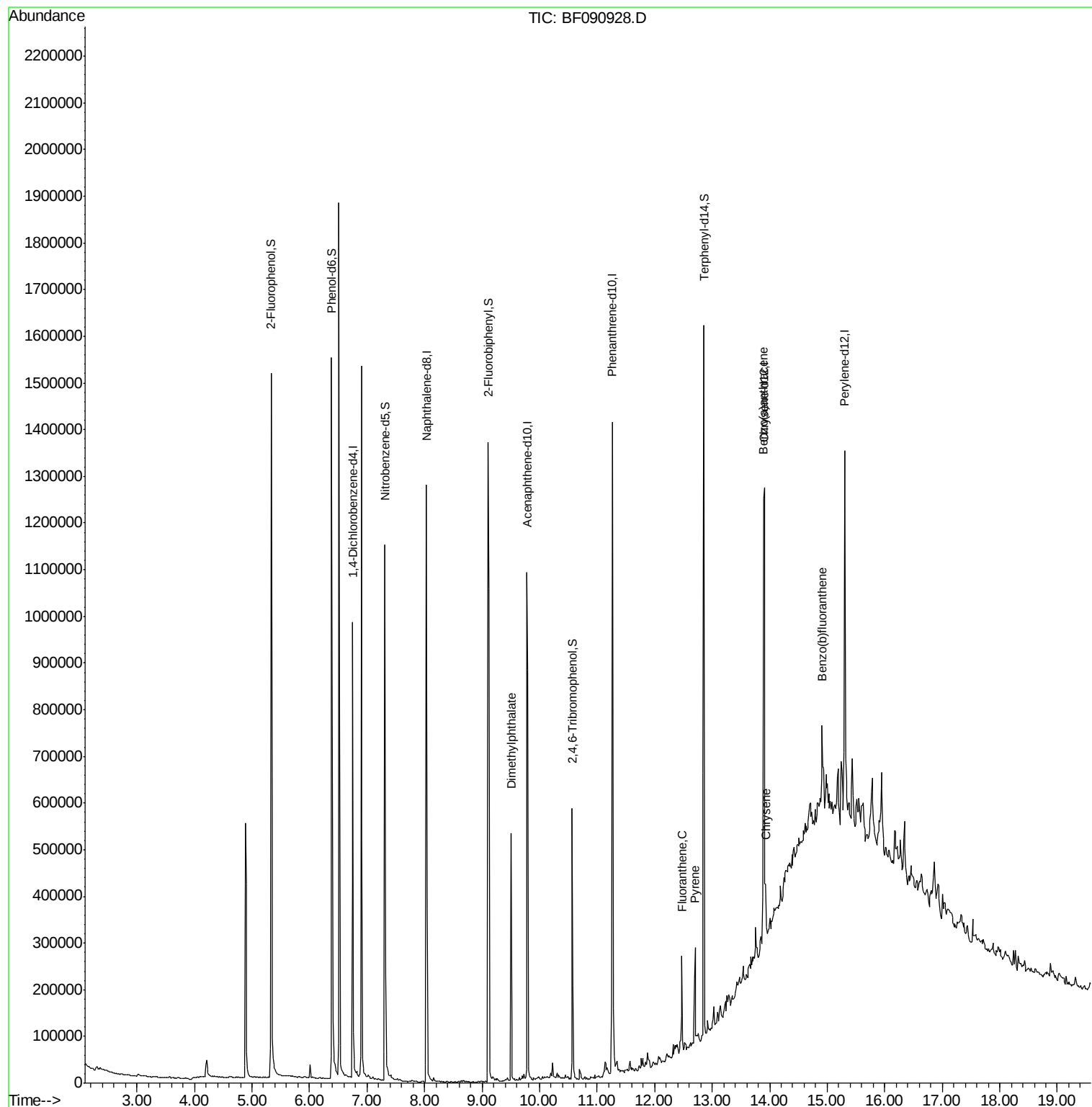
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF103116\  
Data File : BF090928.D  
Acq On : 31 Oct 2016 15:16  
Operator : UM/SJ  
Sample : H5423-07 2X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

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Quant Time: Nov 01 14:54:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 01 11:53:50 2016  
Response via : Initial Calibration





#1

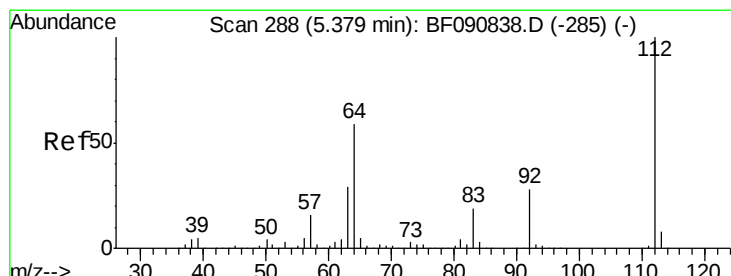
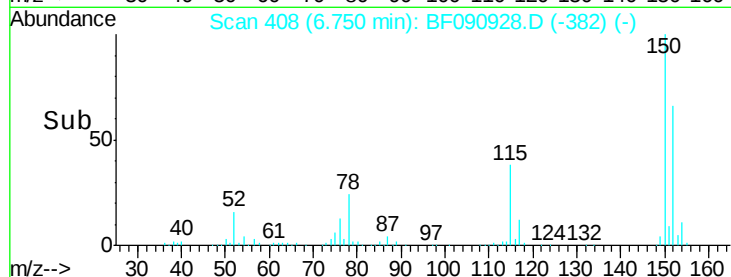
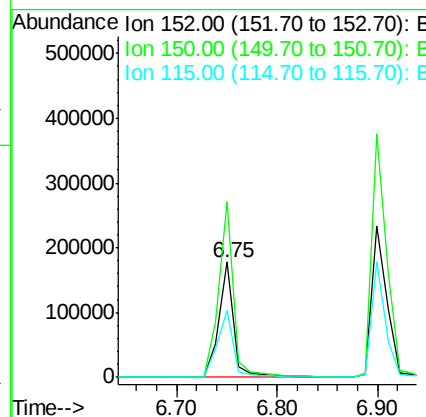
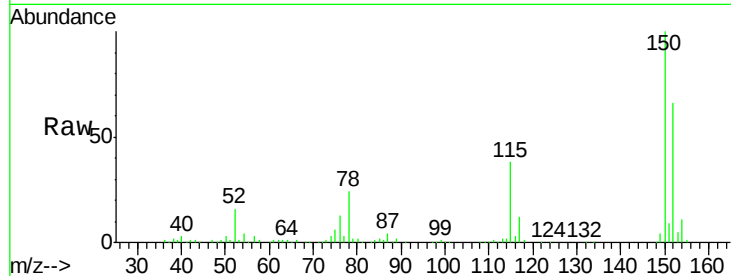
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.75 min Scan# 408  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.0 | 124.7 | 187.1 |
| 115     | 57.7  | 39.0  | 58.4  |

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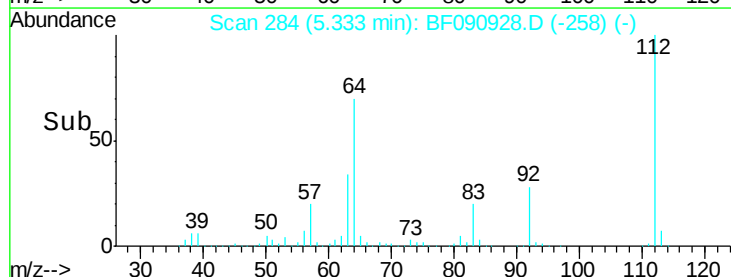
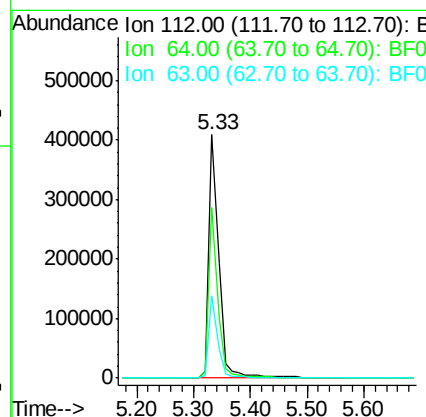
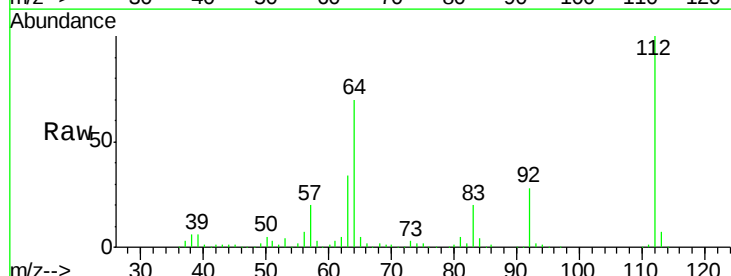
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#5

2-Fluorophenol  
Concen: 45.76 ng  
RT: 5.33 min Scan# 284  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.3  | 39.7  | 59.5# |
| 63      | 33.8  | 17.4  | 26.0# |





#7

Phenol-d6

Concen: 50.04 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF090928.D

Acq: 31 Oct 2016 15:16

Instrument :

BNA\_F

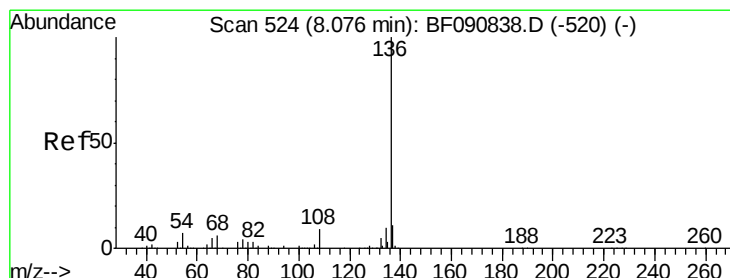
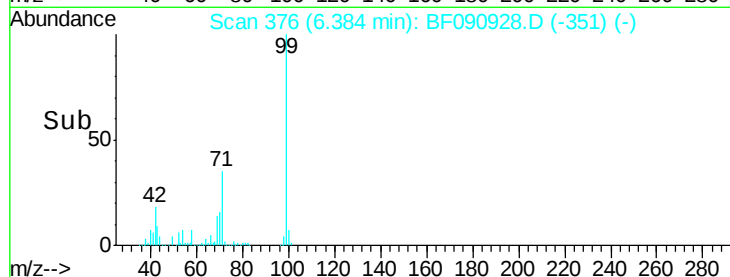
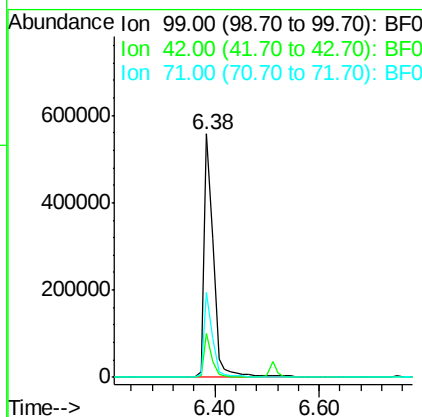
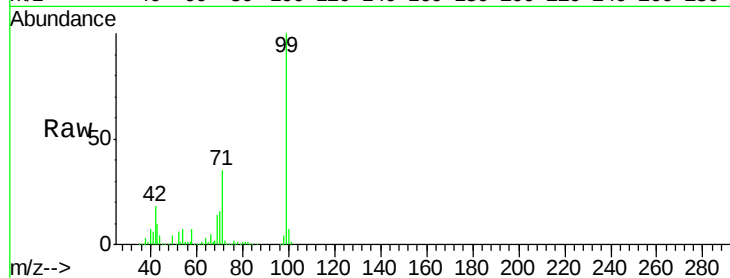
ClientSampleId :

SB-4COMP(0-16FEET)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 705664 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.0  | 13.7  | 20.5   |
| 71        | 34.8  | 14.2  | 21.2#  |

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#21

Naphthalene-d8

Concen: 20.00 ng

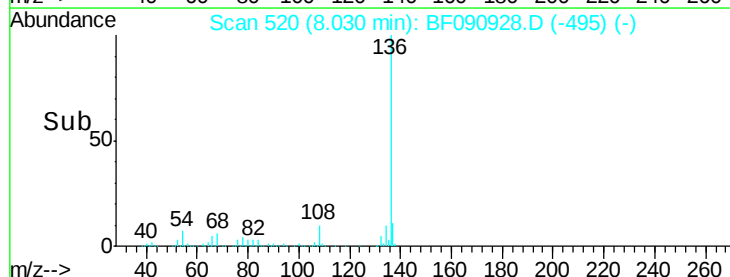
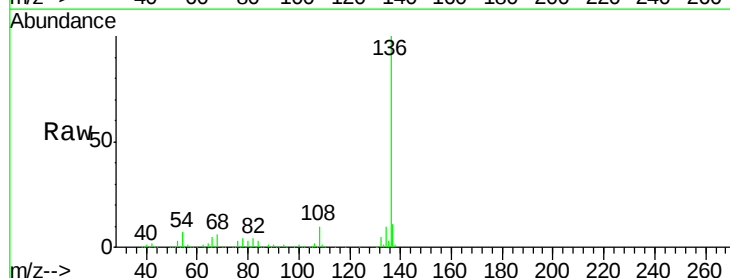
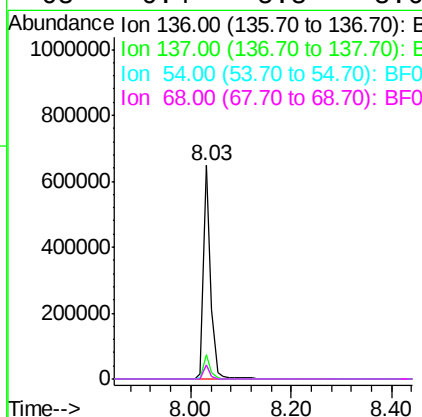
RT: 8.03 min Scan# 520

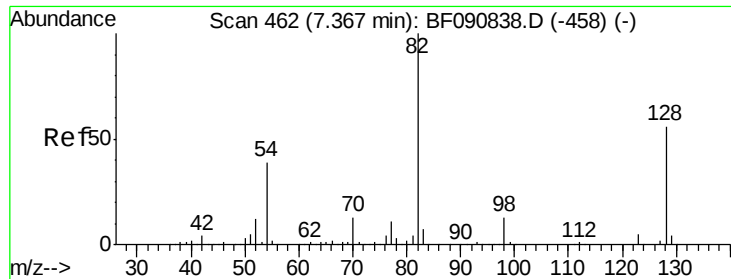
Delta R.T. -0.01 min

Lab File: BF090928.D

Acq: 31 Oct 2016 15:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 645289 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.4  | 9.0   | 13.6   |
| 54        | 6.9   | 8.2   | 12.2#  |
| 68        | 6.4   | 5.8   | 8.6    |





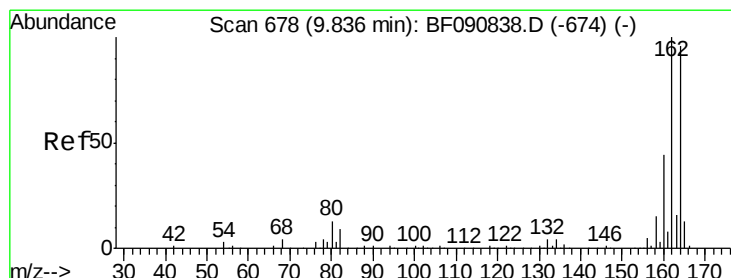
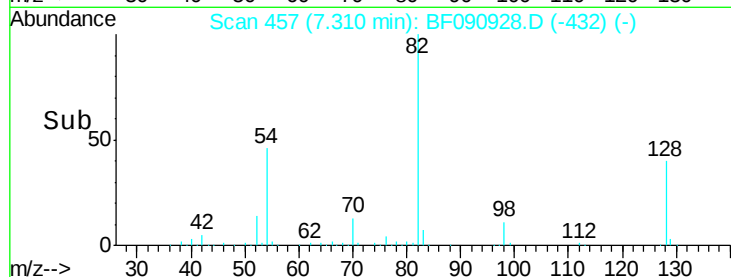
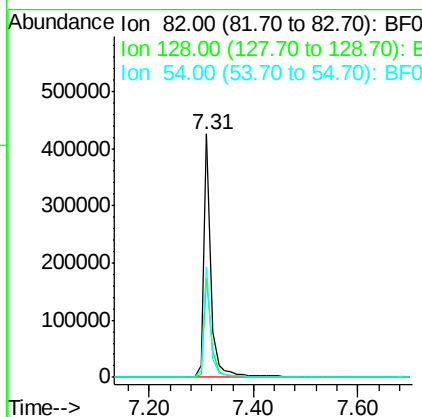
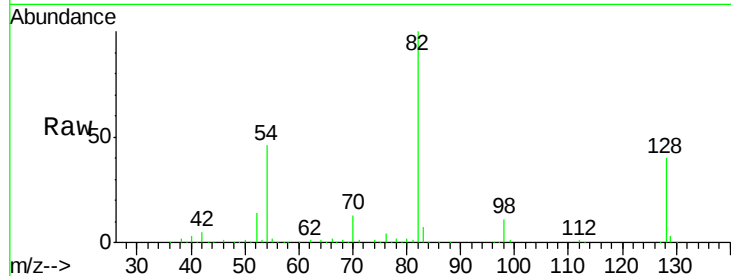
#23  
 Nitrobenzene-d5  
 Concen: 42.34 ng  
 RT: 7.31 min Scan# 457  
 Delta R.T. -0.01 min  
 Lab File: BF090928.D  
 Acq: 31 Oct 2016 15:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.5  | 51.0  | 76.6# |
| 54      | 45.6  | 47.5  | 71.3# |

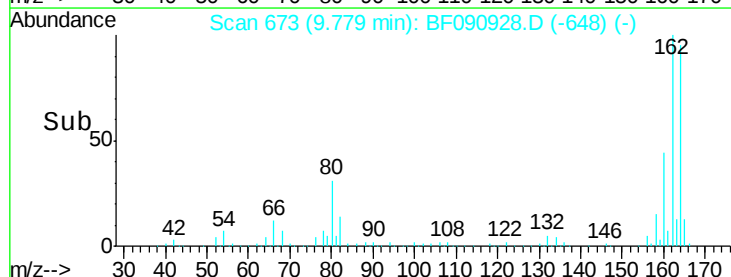
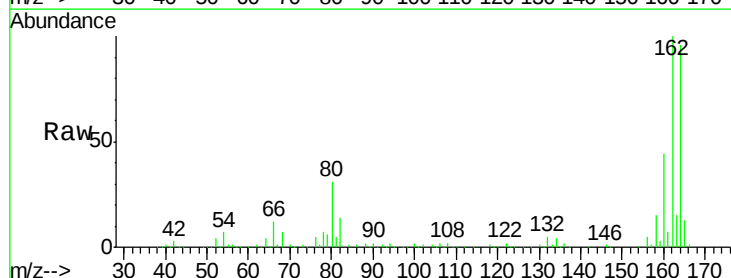
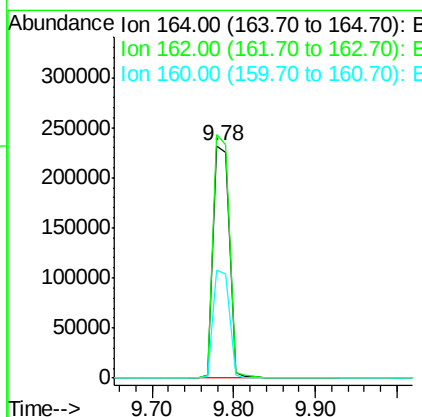
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.78 min Scan# 673  
 Delta R.T. -0.01 min  
 Lab File: BF090928.D  
 Acq: 31 Oct 2016 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.6 | 75.2  | 112.8 |
| 160     | 46.6  | 31.5  | 47.3  |





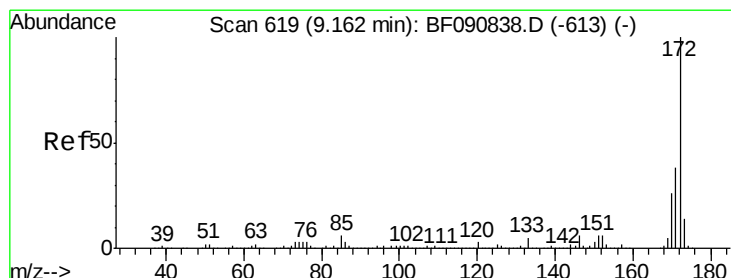
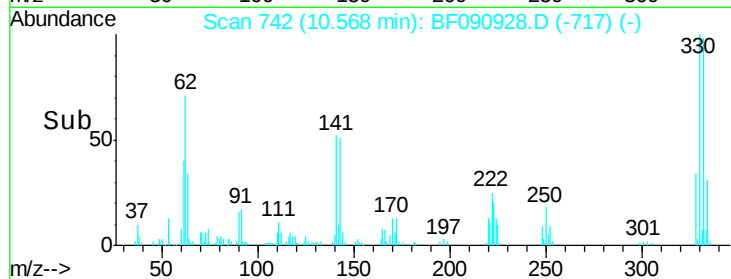
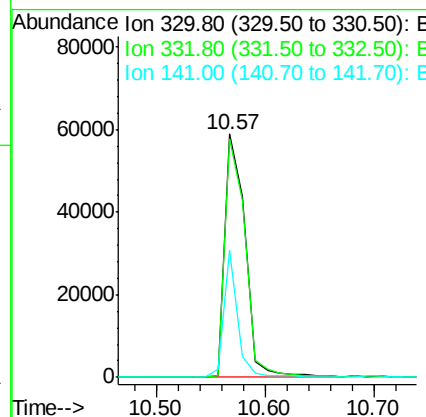
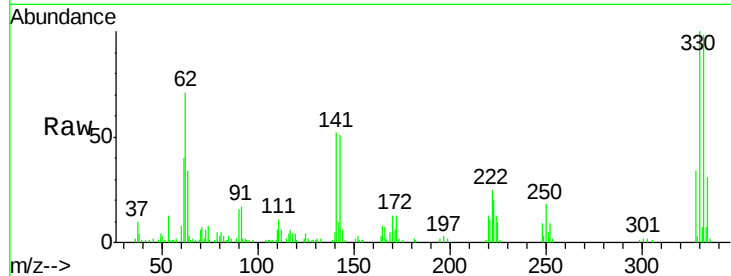
#41  
 2,4,6-Tribromophenol  
 Concen: 23.06 ng  
 RT: 10.57 min Scan# 742  
 Delta R.T. -0.01 min  
 Lab File: BF090928.D  
 Acq: 31 Oct 2016 15:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 76978 |       |       |
| 332     | 98.6  |       | 76.6  | 114.8 |
| 141     | 35.6  |       | 29.7  | 44.5  |

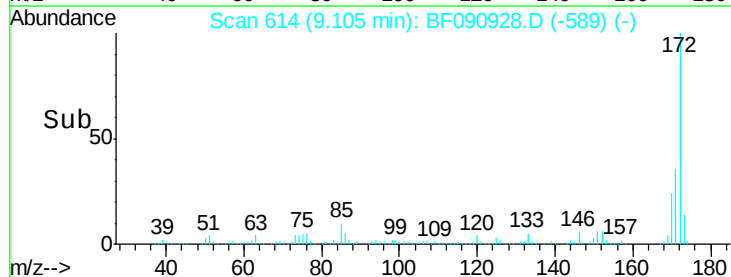
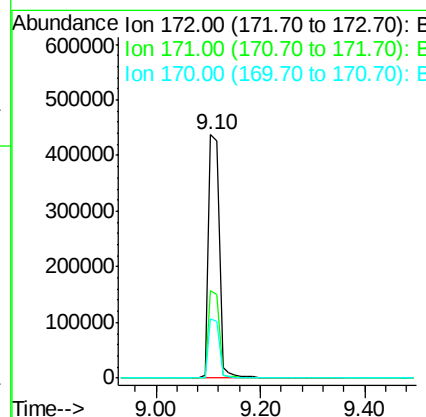
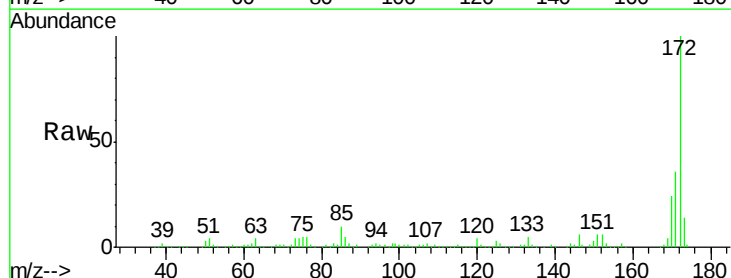
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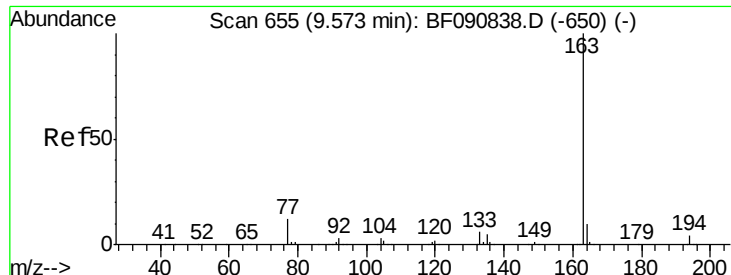
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#44  
 2-Fluorobiphenyl  
 Concen: 34.14 ng  
 RT: 9.10 min Scan# 614  
 Delta R.T. -0.01 min  
 Lab File: BF090928.D  
 Acq: 31 Oct 2016 15:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 631511 |       |       |
| 171     | 35.8  |        | 26.1  | 39.1  |
| 170     | 24.3  |        | 17.4  | 26.2  |





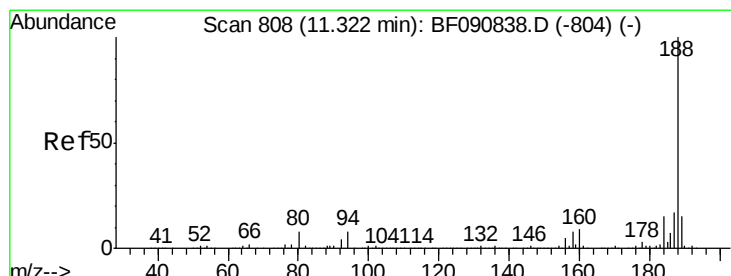
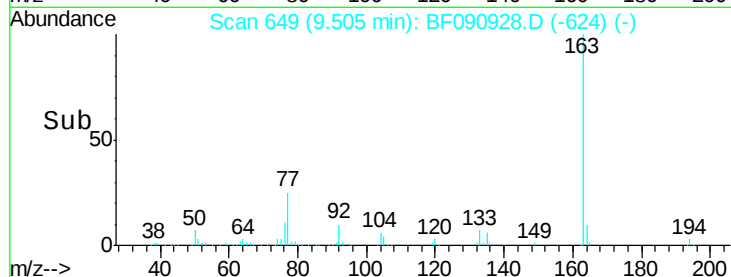
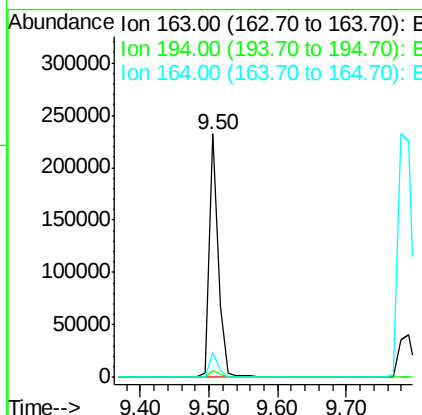
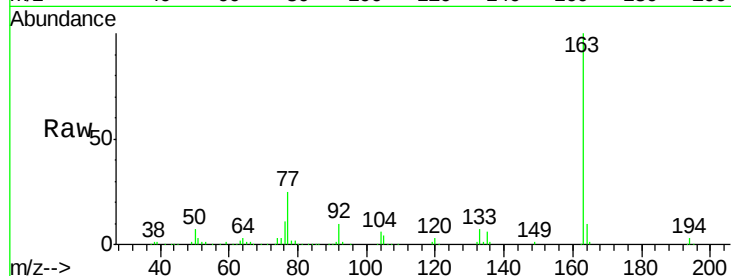
#49  
Dimethylphthalate  
Concen: 10.03 ng  
RT: 9.50 min Scan# 649  
Delta R.T. -0.01 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

Tgt Ion:163 Resp: 217583  
Ion Ratio Lower Upper  
163 100  
194 3.0 4.4 6.6#  
164 10.2 8.3 12.5

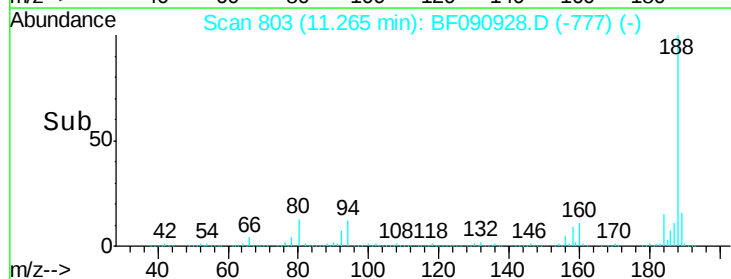
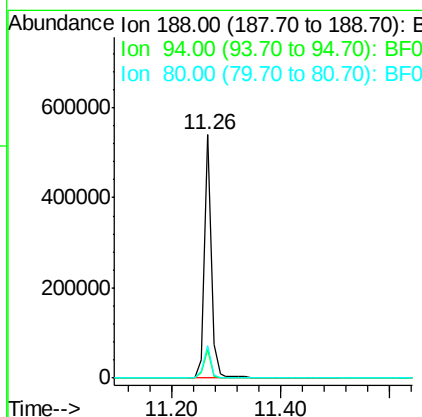
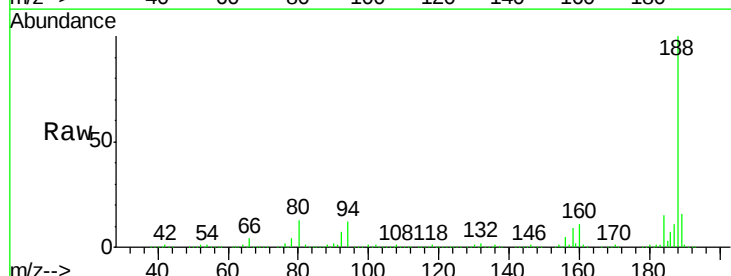
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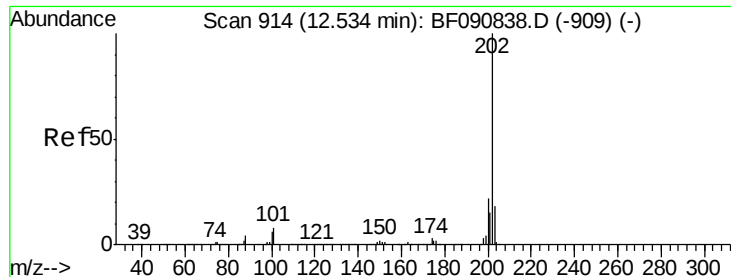
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.26 min Scan# 803  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

Tgt Ion:188 Resp: 476153  
Ion Ratio Lower Upper  
188 100  
94 11.8 11.1 16.7  
80 13.3 11.0 16.4





#74

Fluoranthene

Concen: 3.14 ng

RT: 12.48 min Scan# 909

Delta R.T. 0.00 min

Lab File: BF090928.D

Acq: 31 Oct 2016 15:16

Instrument :

BNA\_F

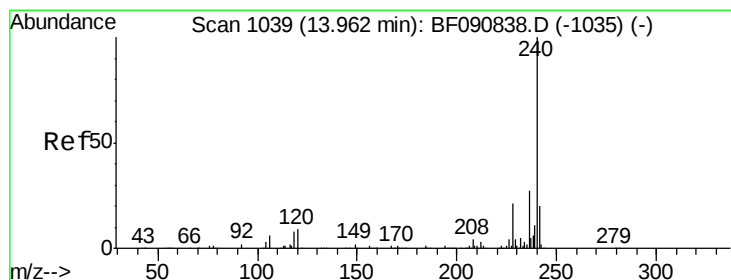
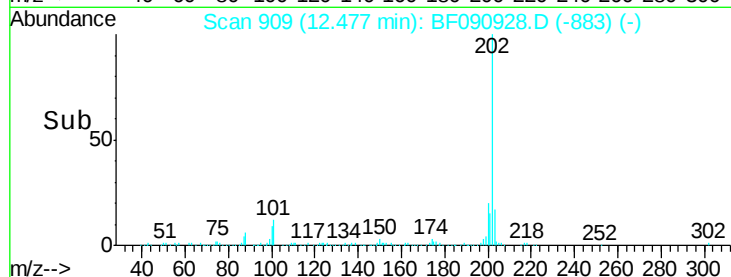
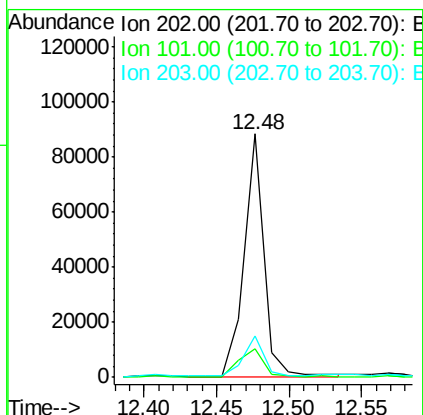
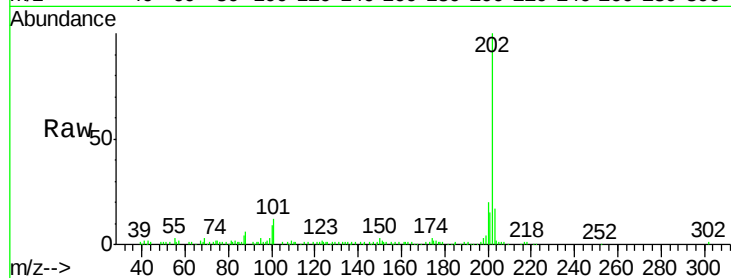
ClientSampleId :

SB-4COMP(0-16FEET)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 83476 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.7  | 0.0   | 38.3  |
| 203       | 17.2  | 0.0   | 37.3  |

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#75

Chrysene-d12

Concen: 20.00 ng

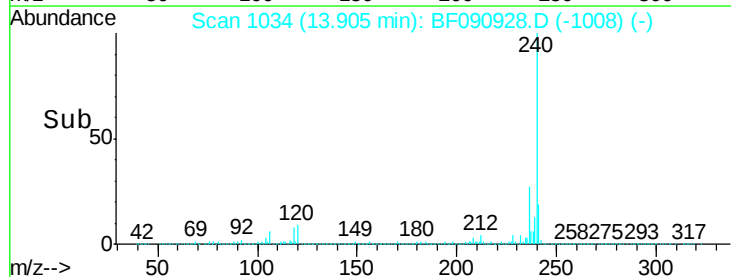
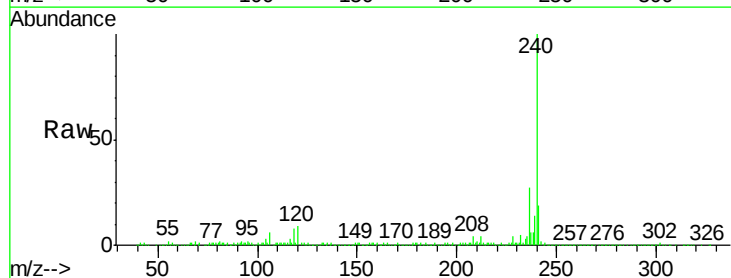
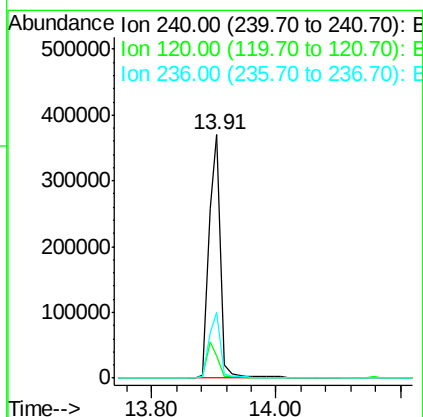
RT: 13.91 min Scan# 1034

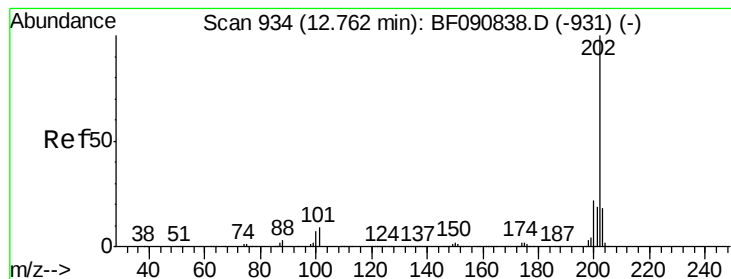
Delta R.T. 0.00 min

Lab File: BF090928.D

Acq: 31 Oct 2016 15:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 466842 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.9   | 16.2  | 24.2#  |
| 236       | 26.7  | 18.4  | 27.6   |





#77

Pyrene

Concen: 3.56 ng

RT: 12.71 min Scan# 929

Delta R.T. 0.00 min

Lab File: BF090928.D

Acq: 31 Oct 2016 15:16

Instrument :

BNA\_F

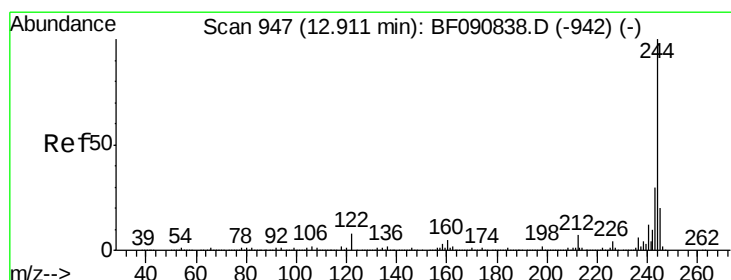
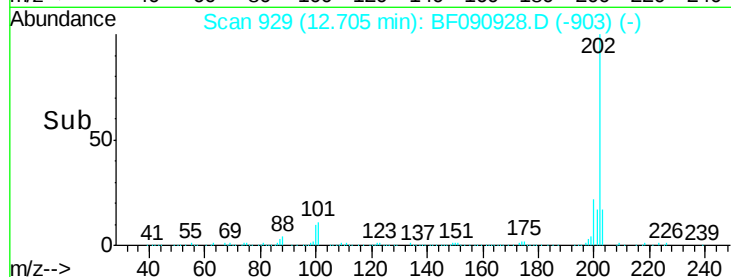
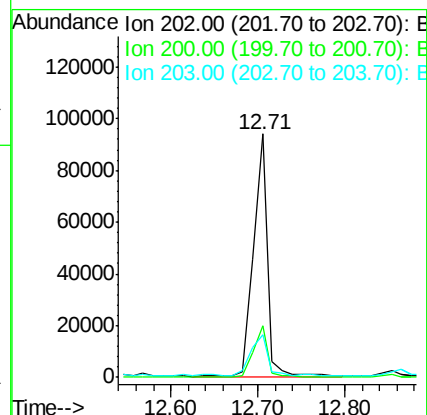
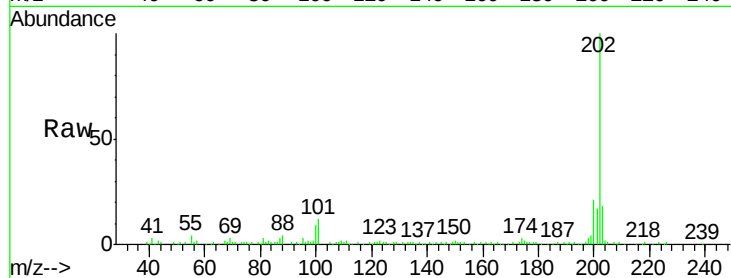
ClientSampleId :

SB-4COMP(0-16FEET)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 105097 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 15.0  | 22.4   |
| 203       | 17.7  | 14.1  | 21.1   |

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#78

Terphenyl-d14

Concen: 27.43 ng

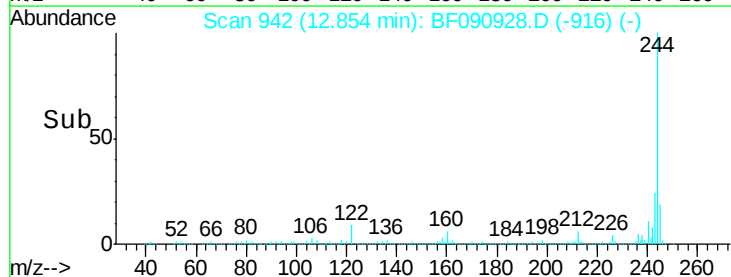
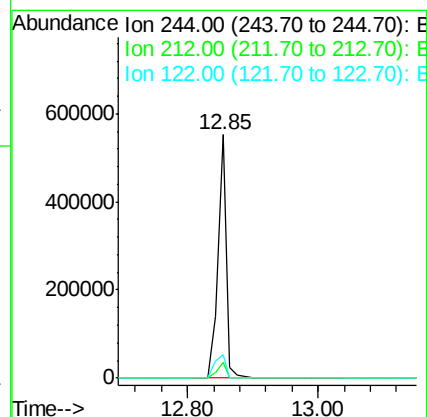
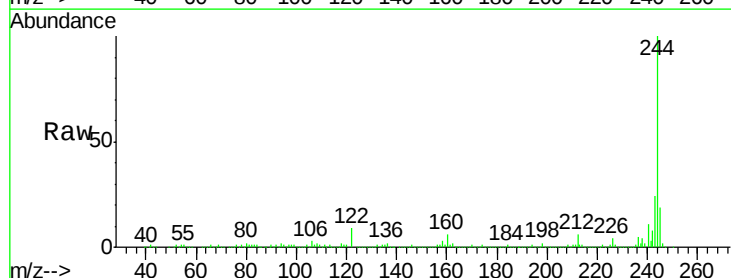
RT: 12.85 min Scan# 942

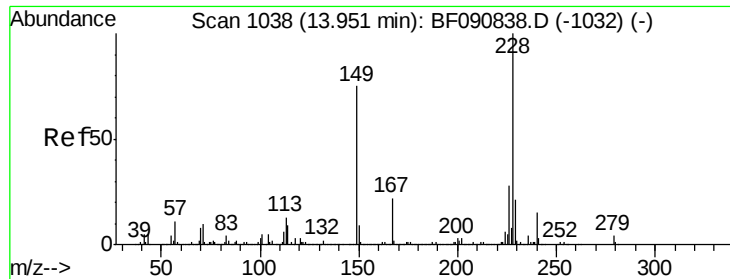
Delta R.T. 0.00 min

Lab File: BF090928.D

Acq: 31 Oct 2016 15:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 508194 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.3   | 4.3   | 6.5    |
| 122       | 9.4   | 17.4  | 26.2   |





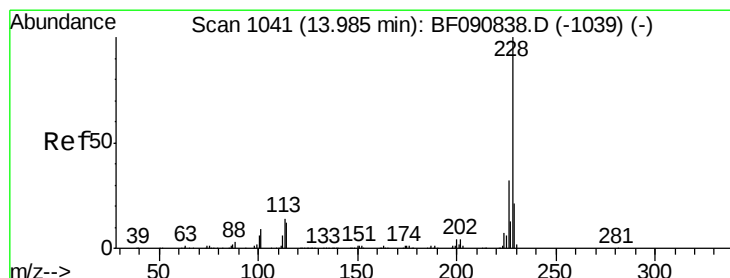
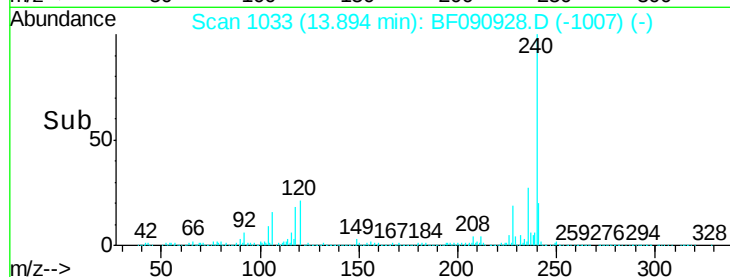
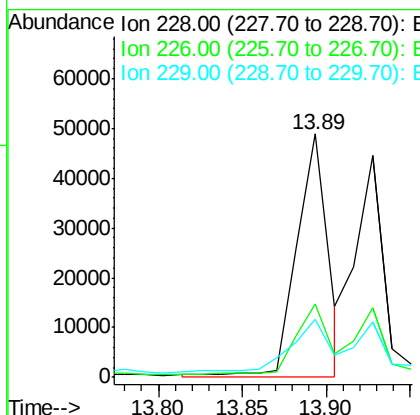
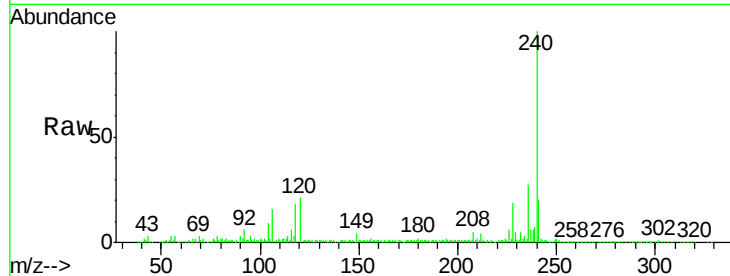
#80  
Benzo(a)anthracene  
Concen: 2.58 ng m  
RT: 13.89 min Scan# 1033  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 20.0  | 30.0# |
| 229     | 23.8  | 15.4  | 23.2# |

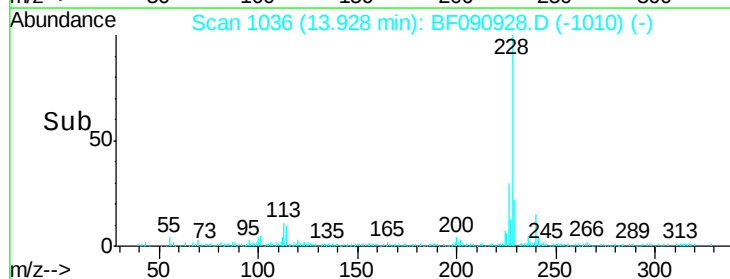
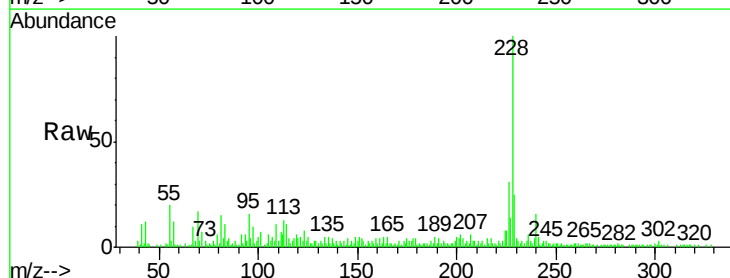
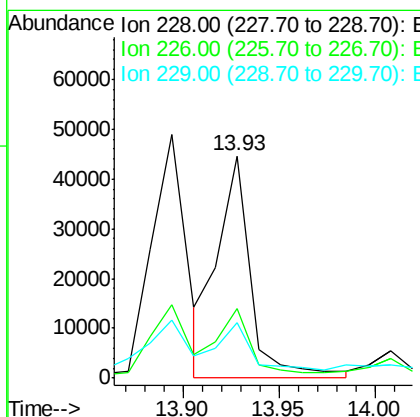
Manual Integrations  
APPROVED

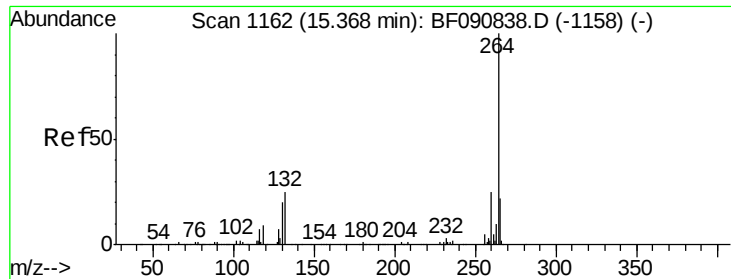
sohil  
11/1/2016 5:19:22 PM



#82  
Chrysene  
Concen: 2.18 ng m  
RT: 13.93 min Scan# 1036  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 21.0  | 31.4  |
| 229     | 24.7  | 15.6  | 23.4# |





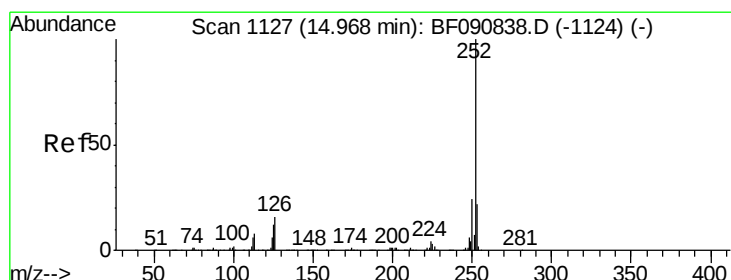
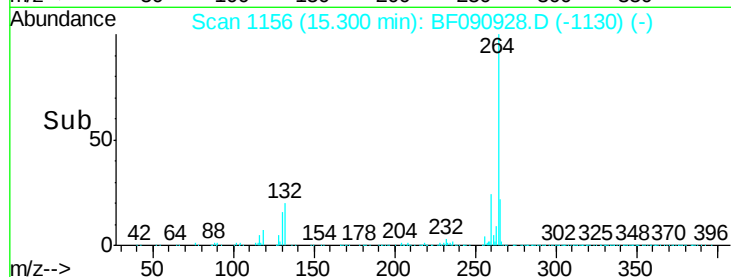
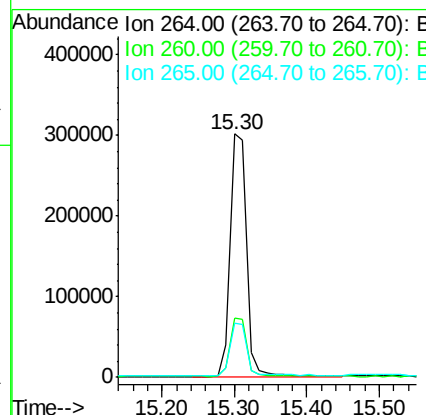
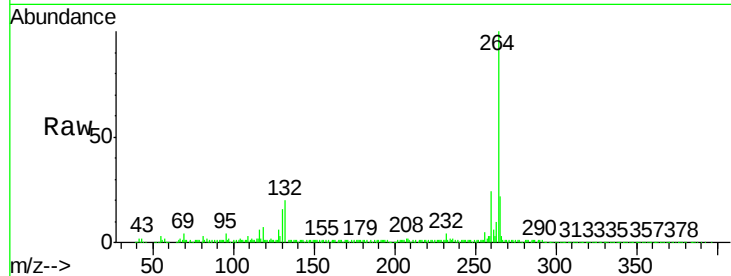
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.30 min Scan# 1156  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 16.7  | 25.1  |
| 265     | 22.4  | 17.2  | 25.8  |

Manual Integrations  
APPROVED

sohil  
11/1/2016 5:19:22 PM



#87  
Benzo(b)fluoranthene  
Concen: 2.21 ng m  
RT: 14.91 min Scan# 1122  
Delta R.T. 0.00 min  
Lab File: BF090928.D  
Acq: 31 Oct 2016 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.8  | 17.5  | 26.3# |
| 125     | 18.7  | 17.1  | 25.7  |

