

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030218\  
 Data File : BF103391.D  
 Acq On : 3 Mar 2018 2:46  
 Operator : SJ/JU  
 Sample : J1724-15  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-25

Manual Integrations  
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 3/5/2018 3:14:19 PM

Quant Time: Mar 03 04:28:08 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 02 13:28:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.88  | 152  | 134419   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.16  | 136  | 561575   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.92  | 164  | 216957   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.42 | 188  | 305052   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 14.07 | 240  | 198687   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 15.59 | 264  | 131794   | 20.00  | ng    | 0.02        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.50  | 112  | 882624   | 99.31  | ng    | 0.00        |
| 7) Phenol-d6                | 6.52  | 99   | 1076876  | 99.02  | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 676286   | 68.77  | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol    | 10.72 | 330  | 136393   | 74.27  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 964802   | 74.33  | ng    | 0.00        |
| 78) Terphenyl-d14           | 13.00 | 244  | 630770   | 76.32  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.53  | 94   | 28248    | 2.237  | ng    | Qvalue # 52 |
| 49) Dimethylphthalate       | 9.63  | 163  | 71408    | 4.103  | ng    | 97          |
| 70) Phenanthrene            | 11.44 | 178  | 173867   | 10.357 | ng    | 99          |
| 71) Anthracene              | 11.49 | 178  | 53981    | 3.136  | ng    | 97          |
| 74) Fluoranthene            | 12.63 | 202  | 354955   | 21.041 | ng    | 99          |
| 77) Pyrene                  | 12.87 | 202  | 358344   | 23.133 | ng    | 99          |
| 80) Benzo(a)anthracene      | 14.06 | 228  | 153425   | 11.901 | ng    | 99          |
| 82) Chrysene                | 14.10 | 228  | 141045   | 11.268 | ng    | 96          |
| 85) Indeno(1,2,3-cd)pyrene  | 17.13 | 276  | 49158    | 4.961  | ng    | 95          |
| 87) Benzo(b)fluoranthene    | 15.14 | 252  | 131961m  | 15.229 | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.16 | 252  | 41399m   | 5.074  | ng    |             |
| 89) Benzo(a)pyrene          | 15.52 | 252  | 87310    | 11.283 | ng    | # 89        |
| 90) Dibenzo(a,h)anthracene  | 17.13 | 278  | 13905    | 2.325  | ng    | # 41        |
| 91) Benzo(a,h,i)perylene    | 17.60 | 276  | 49328    | 8.441  | ng    | # 90        |

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

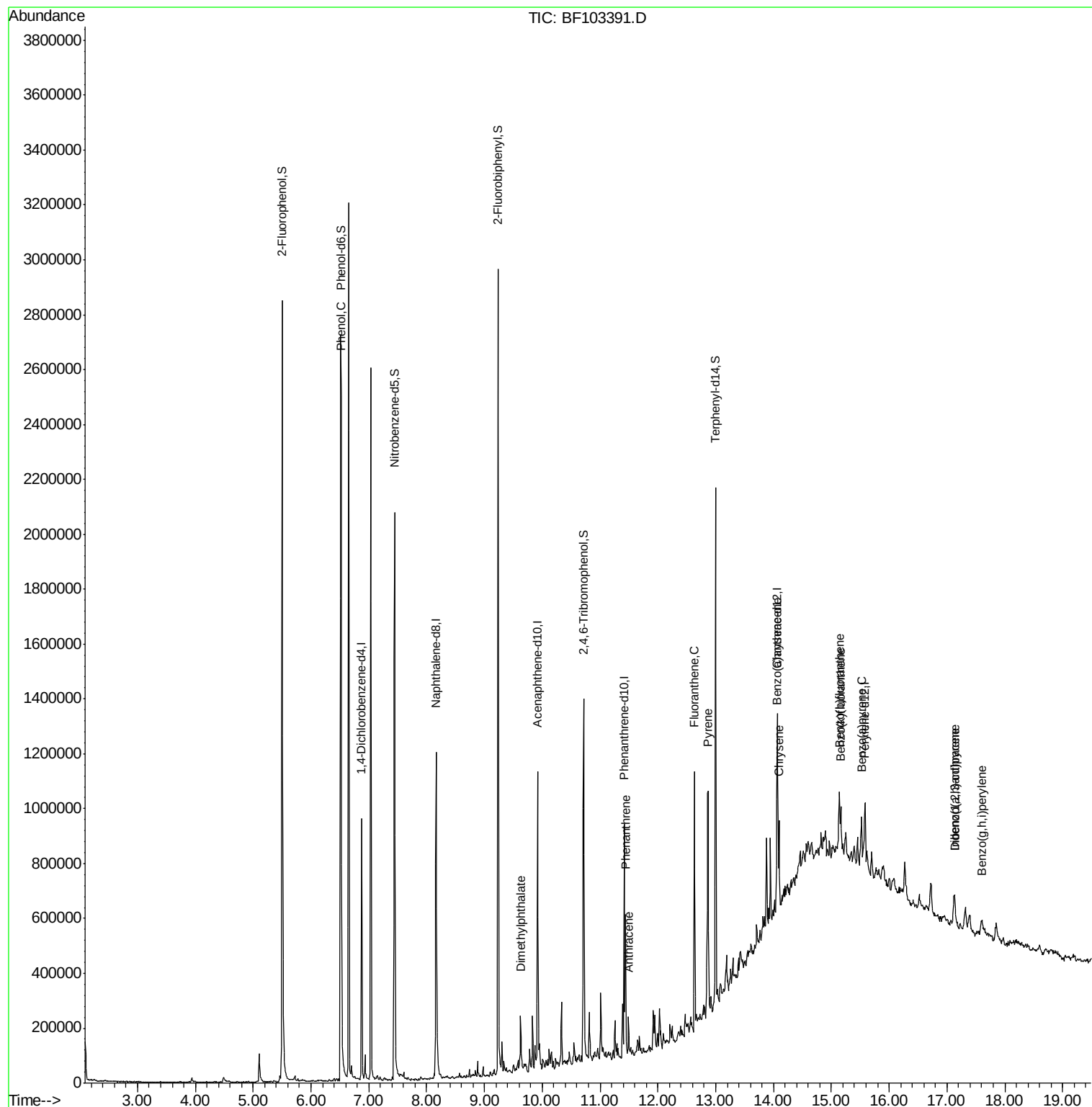
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030218\  
Data File : BF103391.D  
Acq On : 3 Mar 2018 2:46  
Operator : SJ/JU  
Sample : J1724-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

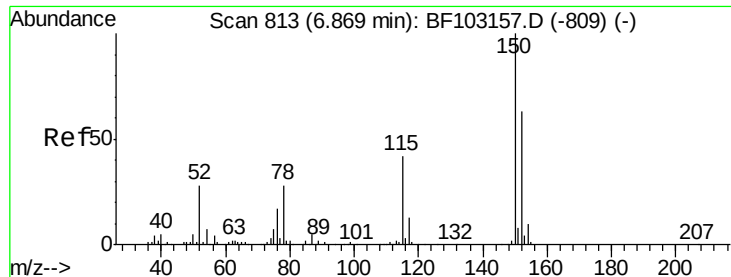
Instrument :  
BNA\_F  
ClientSampleId :  
SP-25

Quant Time: Mar 03 04:28:08 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 02 13:28:09 2018  
Response via : Initial Calibration

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#1

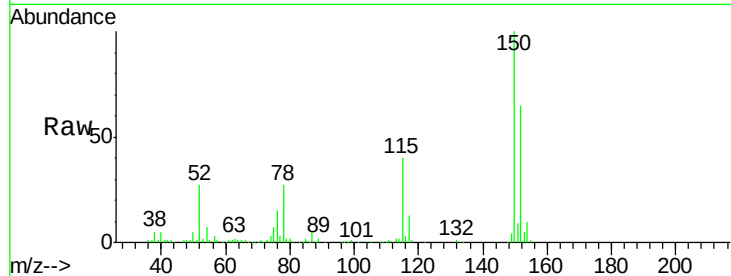
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. 0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampleId :  
SP-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.0 | 124.6 | 186.8 |
| 115     | 62.2  | 50.1  | 75.1  |

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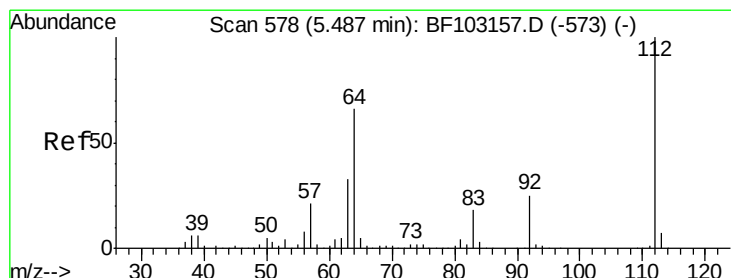
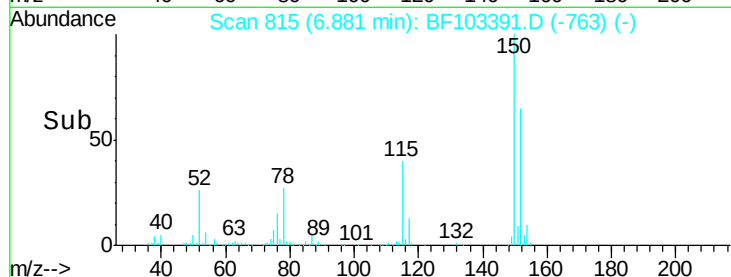
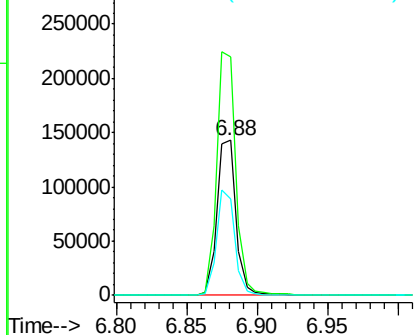


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

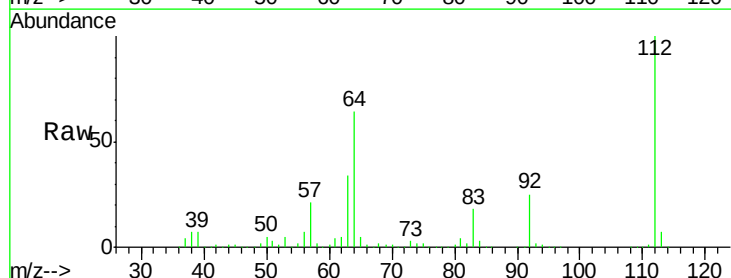
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 99.309 ng  
RT: 5.50 min Scan# 581  
Delta R.T. 0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.2  | 47.9  | 71.9  |
| 63      | 33.7  | 23.7  | 35.5  |

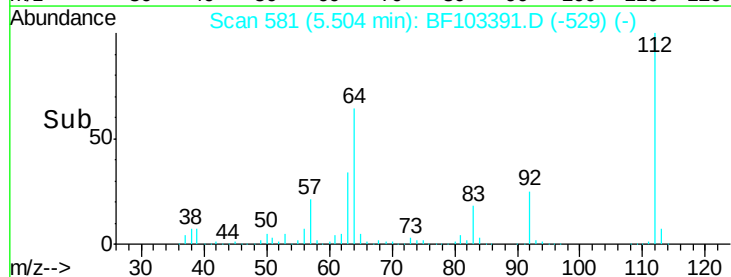
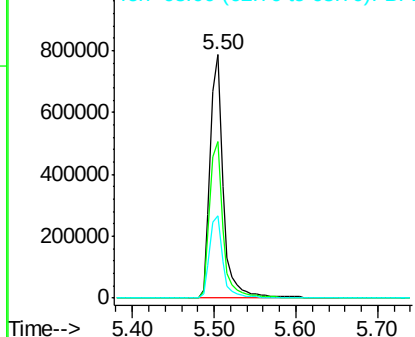


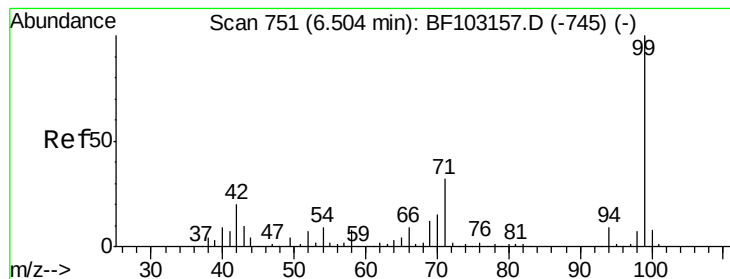
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 99.020 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.00 min

Lab File: BF103391.D

Acq: 3 Mar 2018 2:46

Instrument :

BNA\_F

ClientSampled :

SP-25

Tot Ion: 99 Resp: 1076876

Ion Ratio Lower Upper

99 100

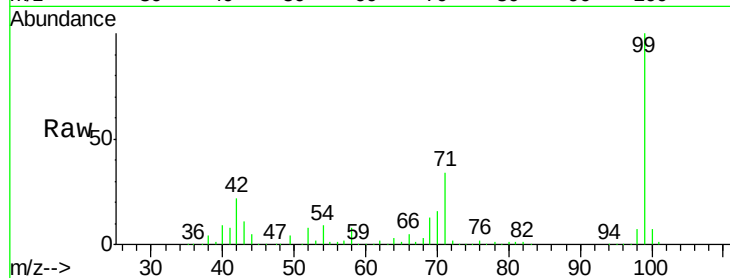
42 22.2 14.5 21.7#

71 34.4 25.4 38.0

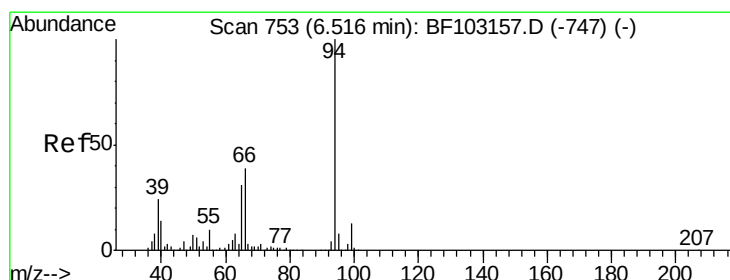
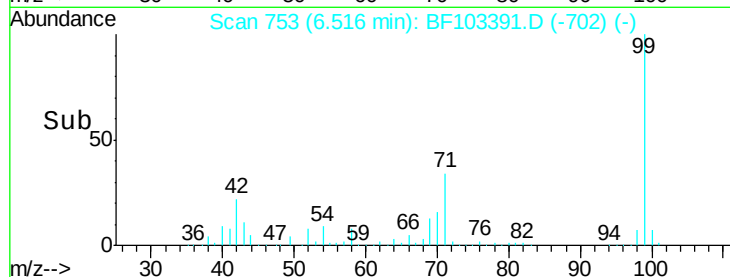
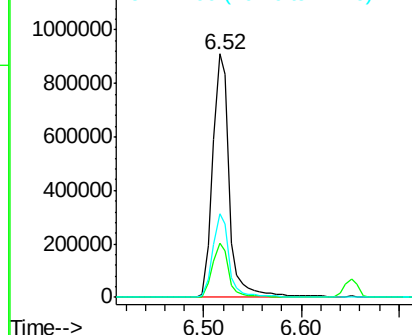
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.237 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF103391.D

Acq: 3 Mar 2018 2:46

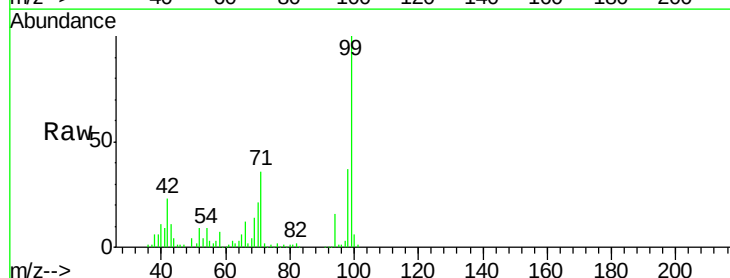
Tgt Ion: 94 Resp: 28248

Ion Ratio Lower Upper

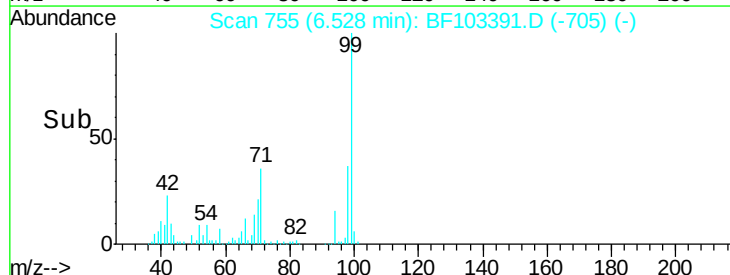
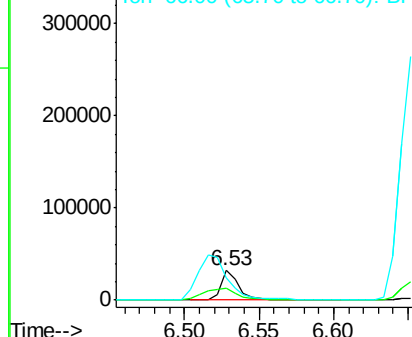
94 100

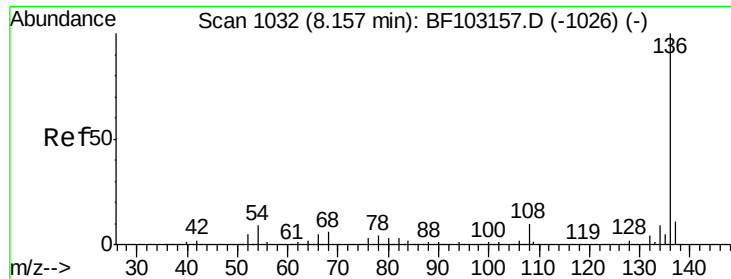
65 39.7 7.9 47.9

66 76.3 16.2 56.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





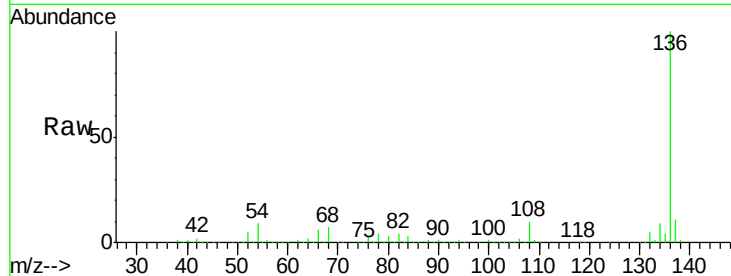
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampled :  
SP-25

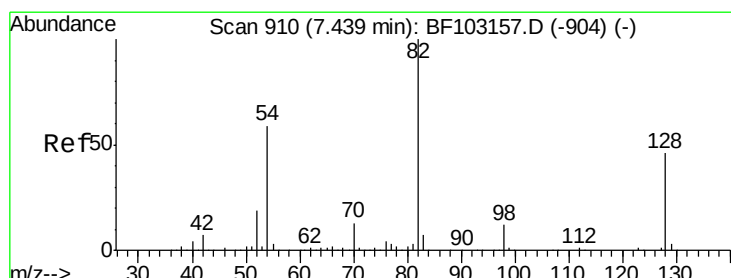
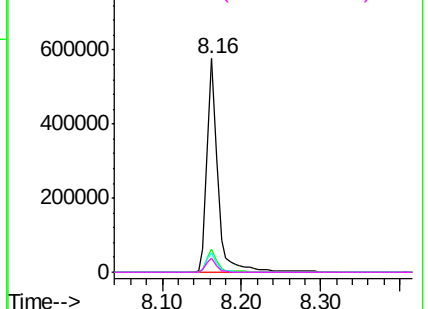
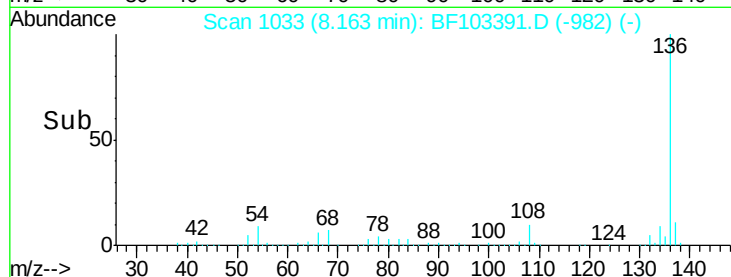
| Tot Ion | Ion  | Ratio | Resp Lower | Resp Upper |
|---------|------|-------|------------|------------|
| 136     | 100  |       |            |            |
| 137     | 11.0 | 8.9   | 13.3       |            |
| 54      | 9.1  | 6.6   | 9.8        |            |
| 68      | 6.5  | 5.0   | 7.4        |            |

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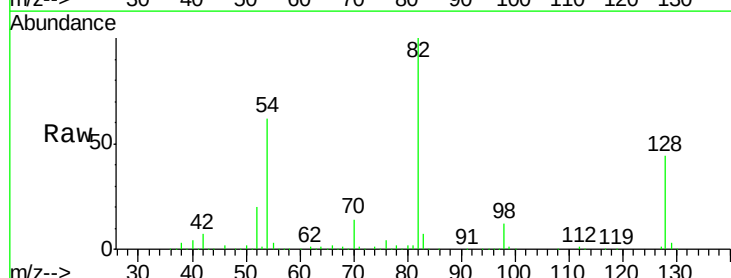


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

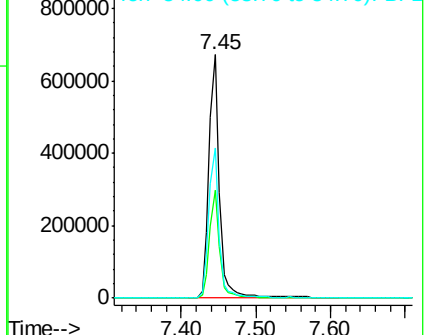
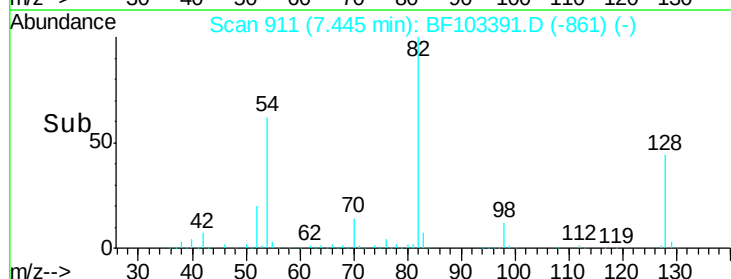


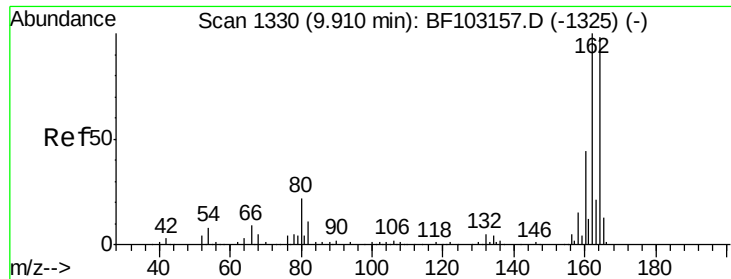
#23  
Nitrobenzene-d5  
Concen: 68.774 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ion  | Ratio | Resp Lower | Resp Upper |
|---------|------|-------|------------|------------|
| 82      | 100  |       |            |            |
| 128     | 44.2 | 36.1  | 54.1       |            |
| 54      | 61.8 | 41.4  | 62.2       |            |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





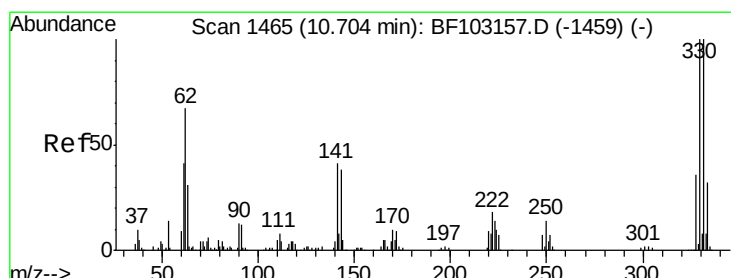
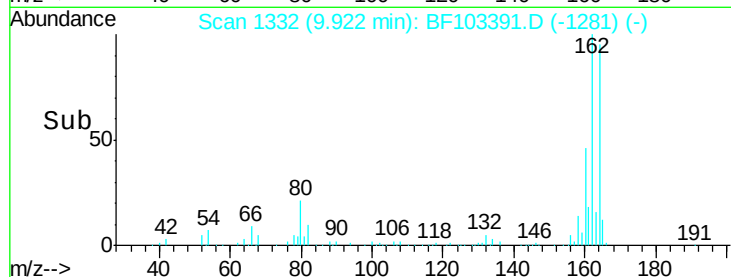
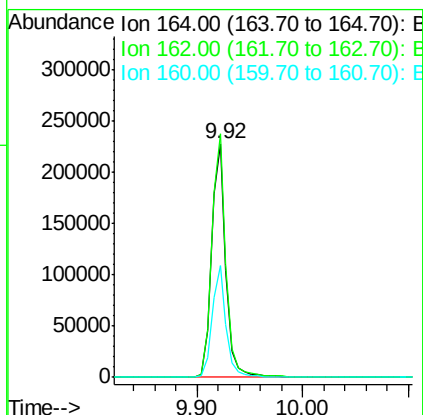
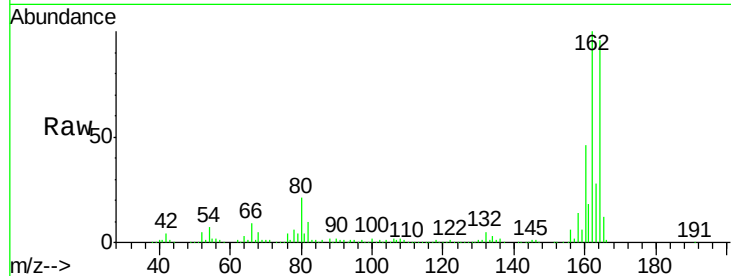
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampleId :  
SP-25

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.3 | 86.1 | 129.1 |       |
| 160     | 47.8  | 38.3 | 57.5  |       |

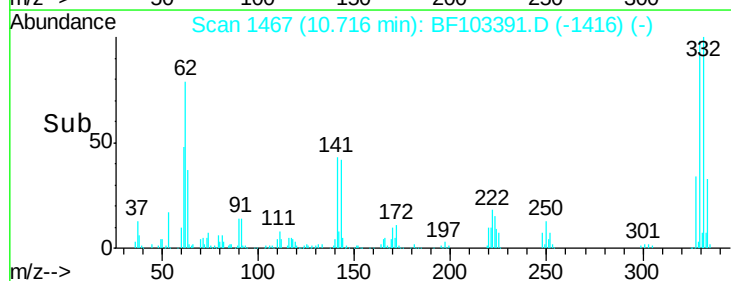
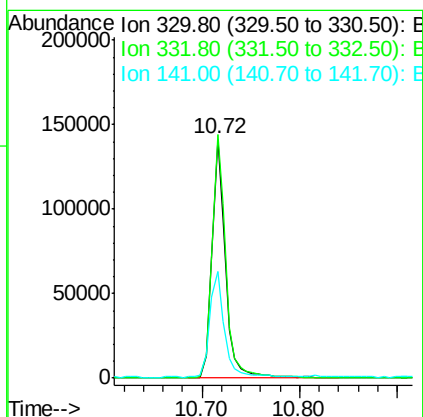
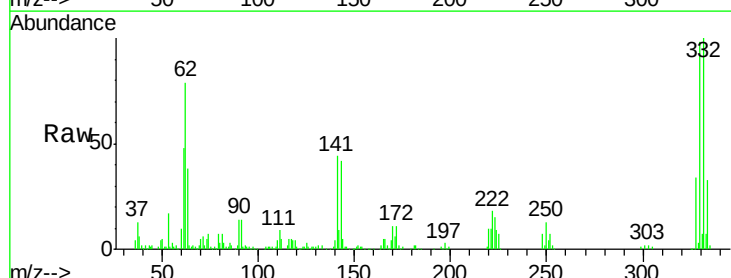
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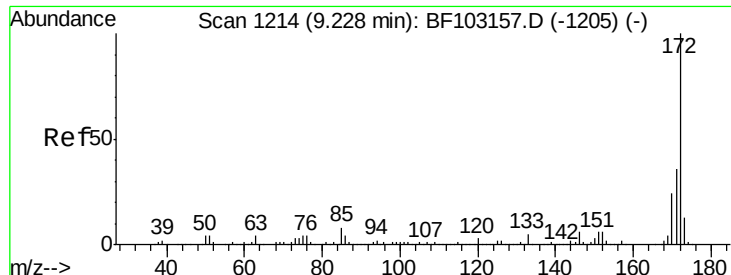
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#41  
2,4,6-Tribromophenol  
Concen: 74.271 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 104.1 | 77.0 | 115.6 |       |
| 141     | 47.3  | 29.9 | 44.9  |       |





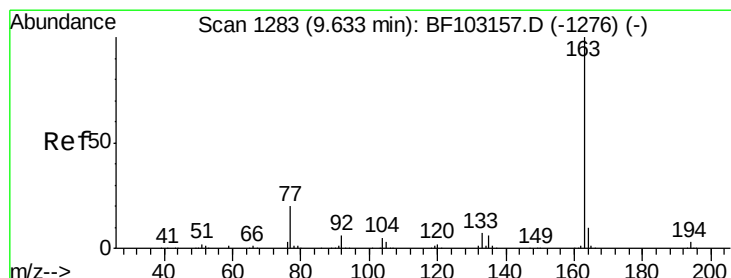
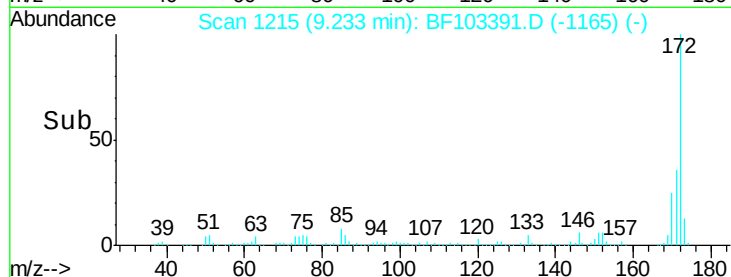
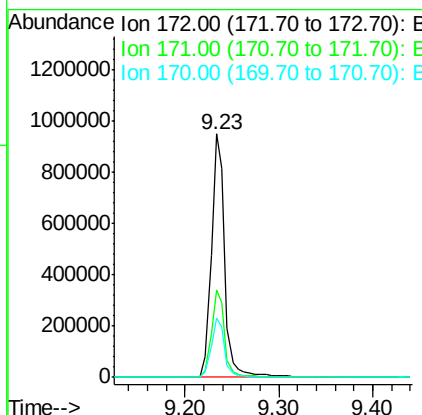
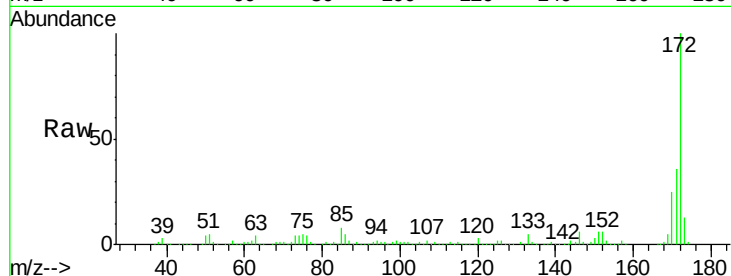
#44  
2-Fluorobiphenyl  
Concen: 74.332 ng  
RT: 9.23 min Scan# 1215  
Delta R.T. -0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampleId :  
SP-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.7  | 44.5  |
| 170     | 24.5  | 19.6  | 29.4  |

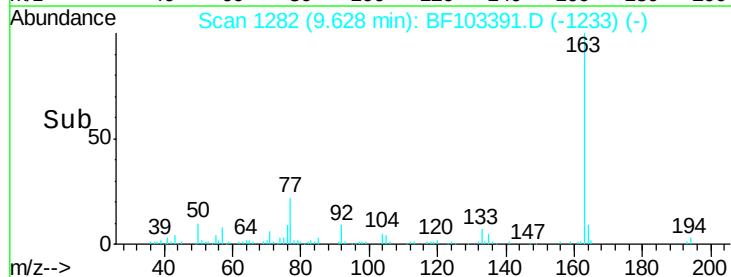
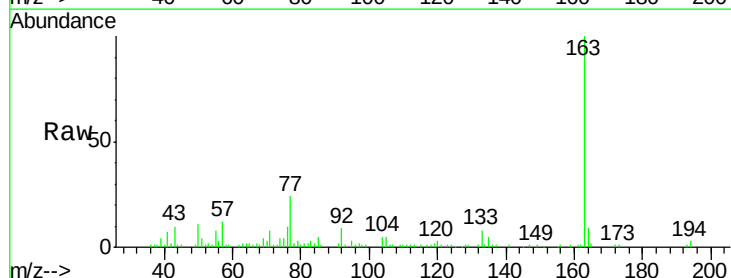
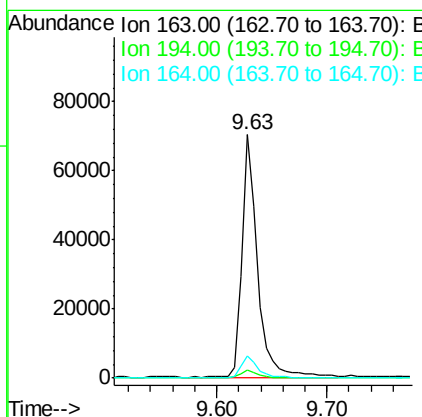
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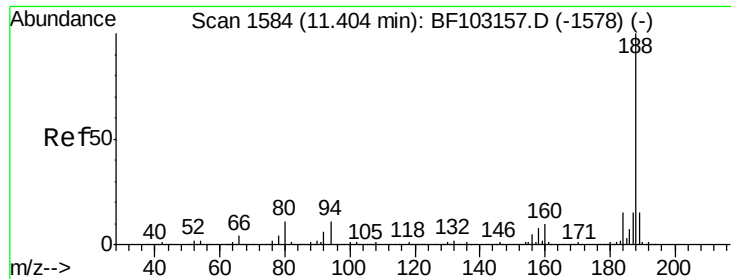
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#49  
Dimethylphthalate  
Concen: 4.103 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.7   | 4.1   |
| 164     | 9.0   | 8.2   | 12.2  |





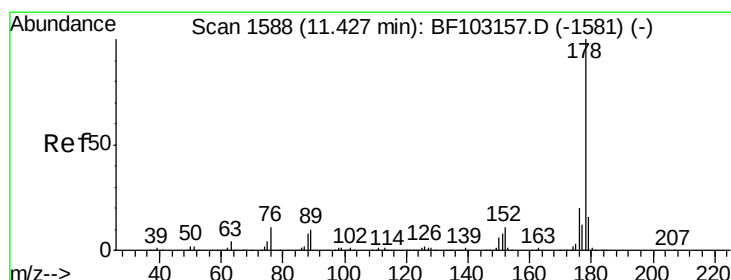
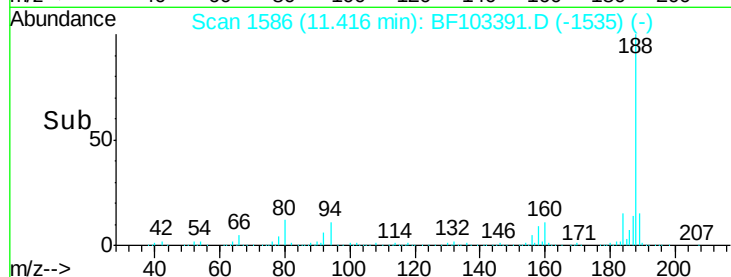
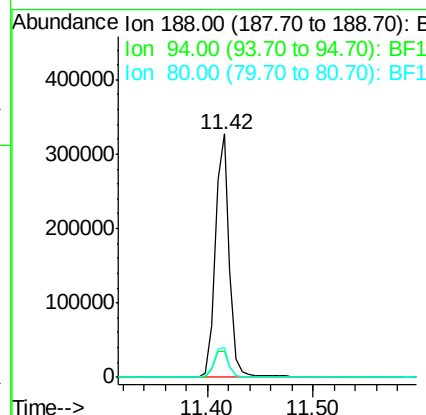
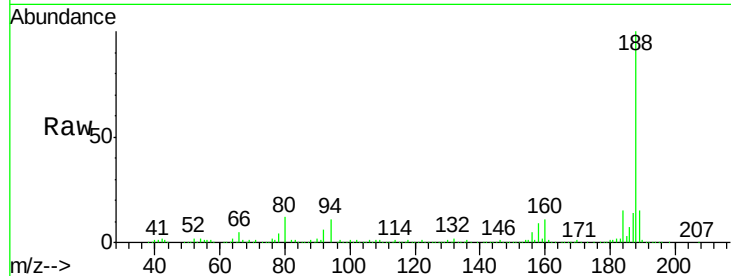
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampled :  
SP-25

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 305052 |       |       |
| 94      | 10.9  |        | 8.5   | 12.7  |
| 80      | 12.1  |        | 9.2   | 13.8  |

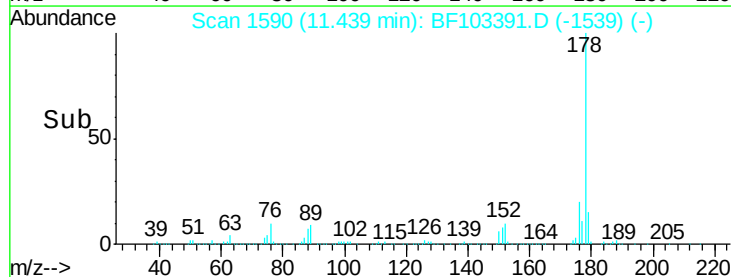
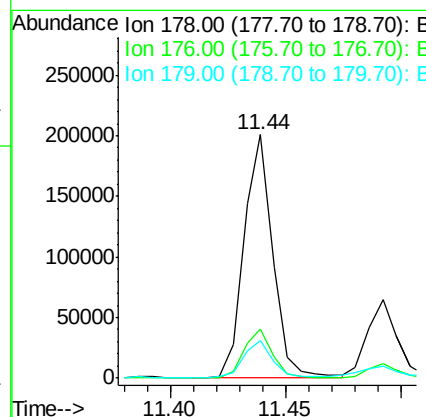
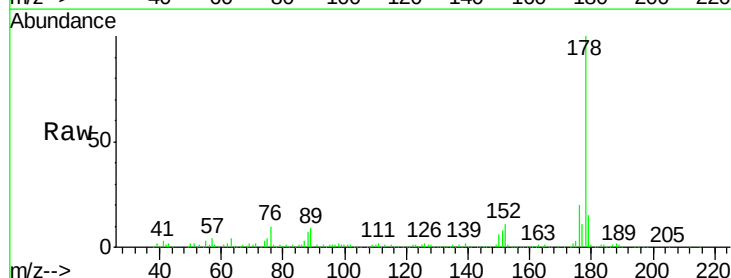
Manual Integrations  
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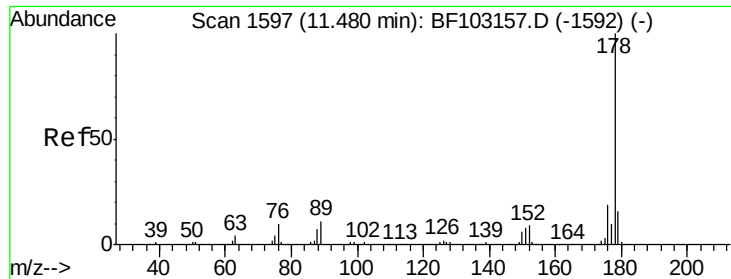


#70  
Phenanthrene  
Concen: 10.357 ng  
RT: 11.44 min Scan# 1590  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 173867 |       |       |
| 176     | 20.3  |        | 15.8  | 23.8  |
| 179     | 15.5  |        | 13.0  | 19.6  |







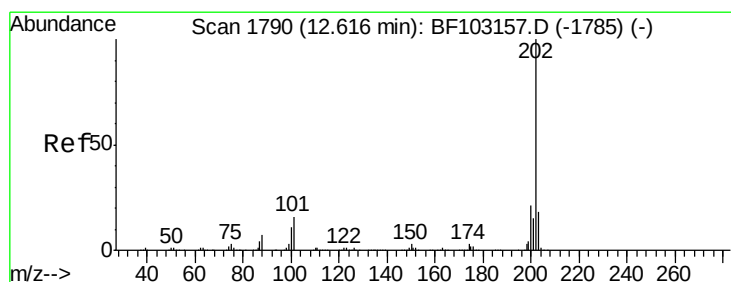
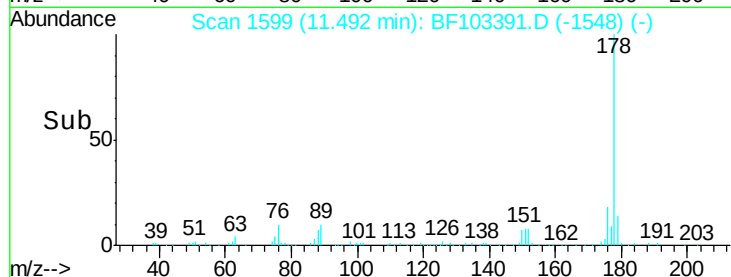
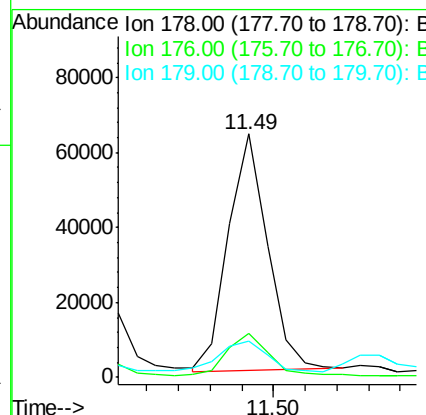
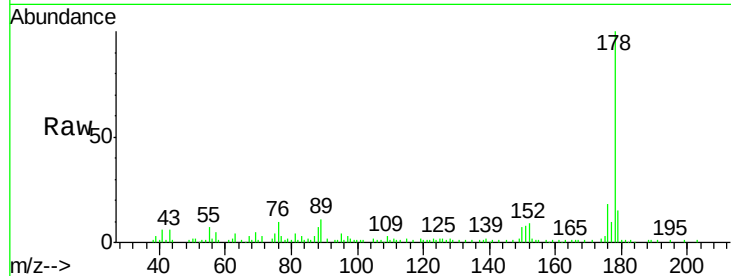
#71  
 Anthracene  
 Concen: 3.136 ng  
 RT: 11.49 min Scan# 1599  
 Delta R.T. 0.00 min  
 Lab File: BF103391.D  
 Acq: 3 Mar 2018 2:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.9  | 15.4  | 23.2  |
| 179     | 15.1  | 12.6  | 19.0  |

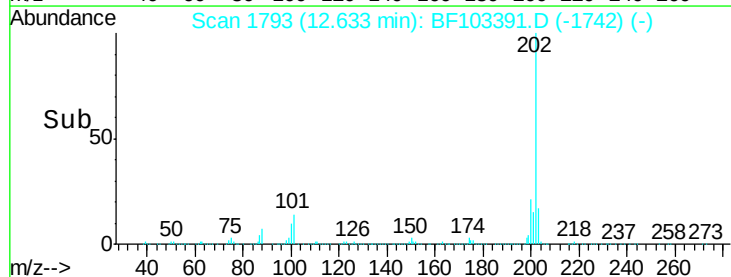
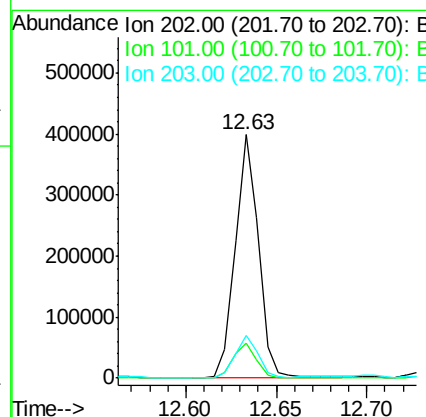
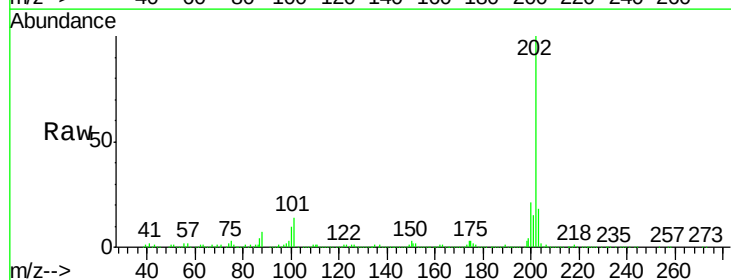
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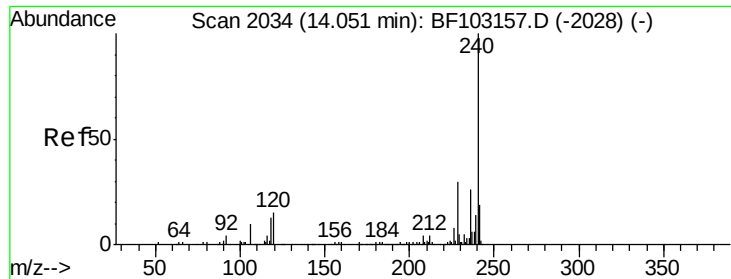
Sohil  
 3/5/2018 3:14:19 PM



#74  
 Fluoranthene  
 Concen: 21.041 ng  
 RT: 12.63 min Scan# 1793  
 Delta R.T. 0.00 min  
 Lab File: BF103391.D  
 Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.4  | 0.0   | 34.1  |
| 203     | 17.6  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.00 min

Lab File: BF103391.D

Acq: 3 Mar 2018 2:46

Instrument :

BNA\_F

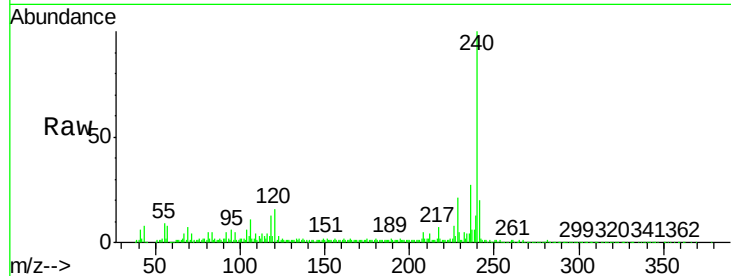
ClientSampleId :

SP-25

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 198687 |       |       |
| 120     | 15.9  | 9.5    | 14.3# |       |
| 236     | 27.4  | 20.7   | 31.1  |       |

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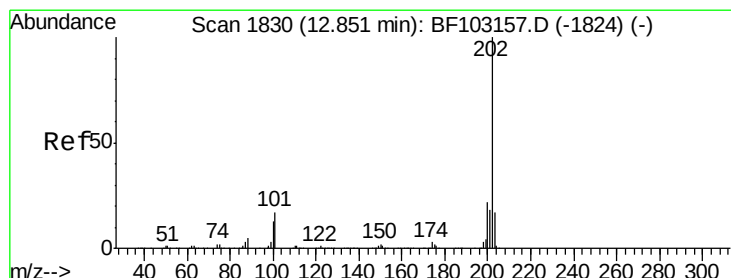
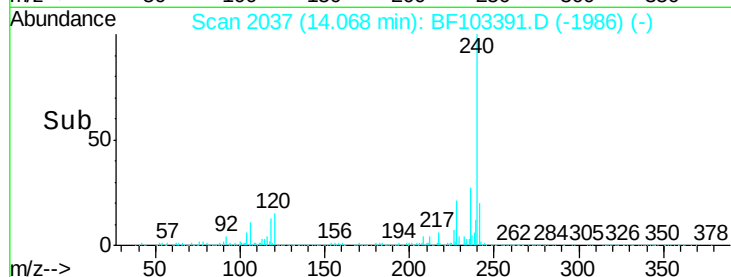
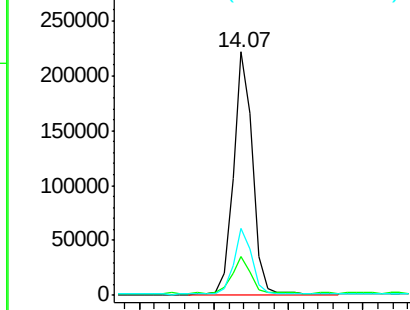


Abundance

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



#77

Pyrene

Concen: 23.133 ng

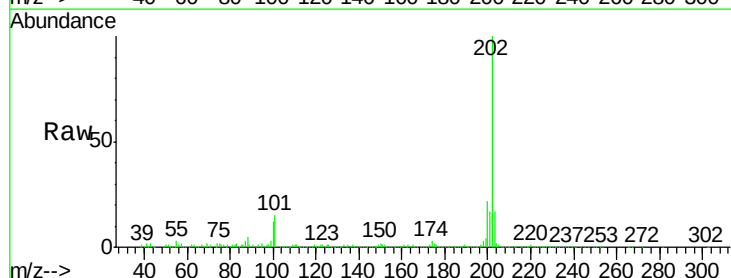
RT: 12.87 min Scan# 1833

Delta R.T. 0.00 min

Lab File: BF103391.D

Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 358344 |       |       |
| 200     | 21.5  | 17.4   | 26.2  |       |
| 203     | 17.1  | 14.3   | 21.5  |       |

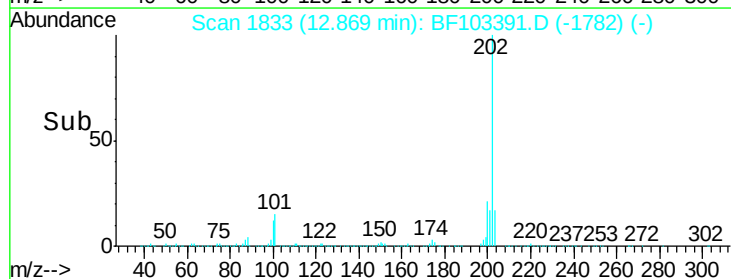
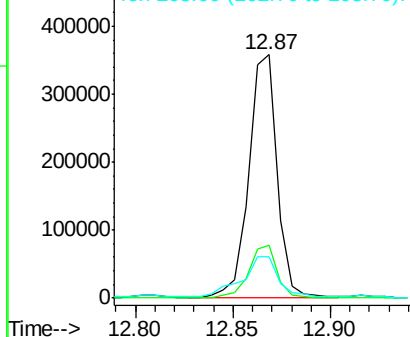


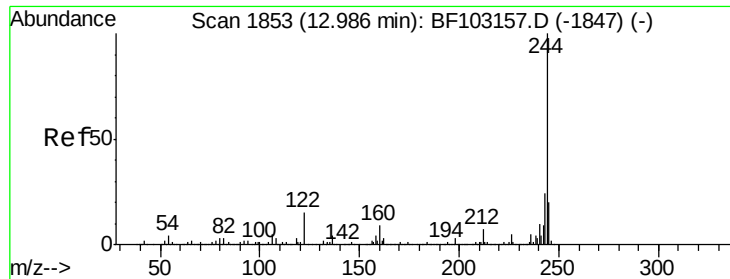
Abundance

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





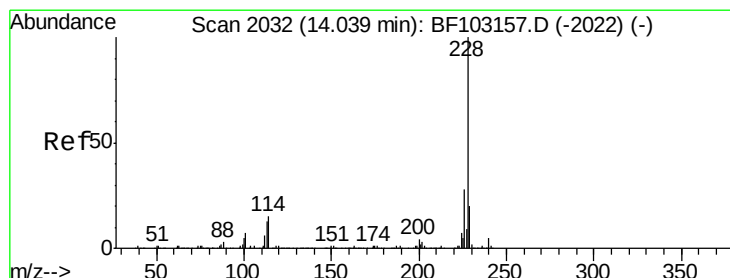
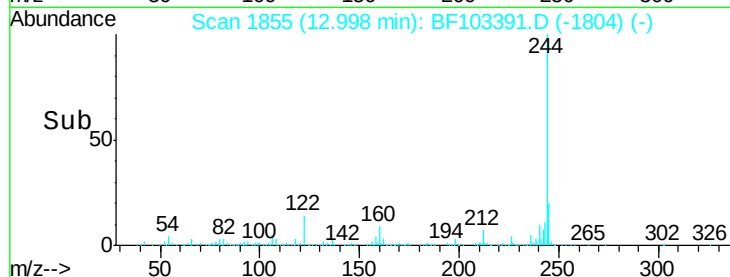
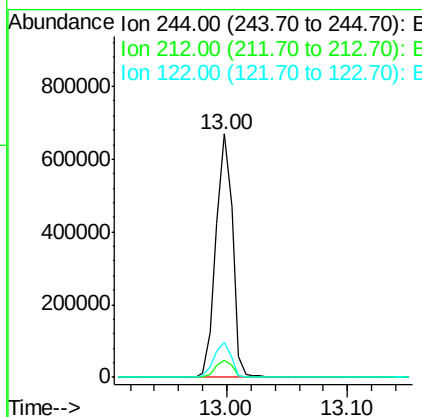
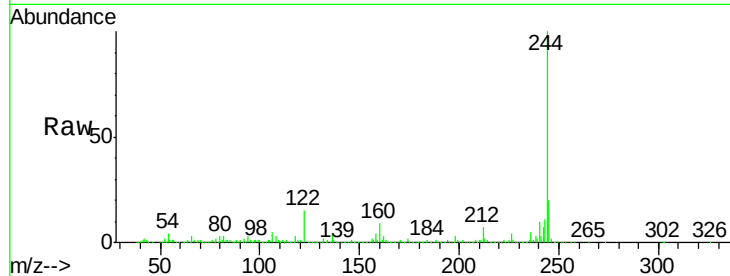
#78  
 Terphenyl-d14  
 Concen: 76.315 ng  
 RT: 13.00 min Scan# 1855  
 Delta R.T. 0.00 min  
 Lab File: BF103391.D  
 Acq: 3 Mar 2018 2:46

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.4   | 8.0   |
| 122     | 14.6  | 11.0  | 16.4  |

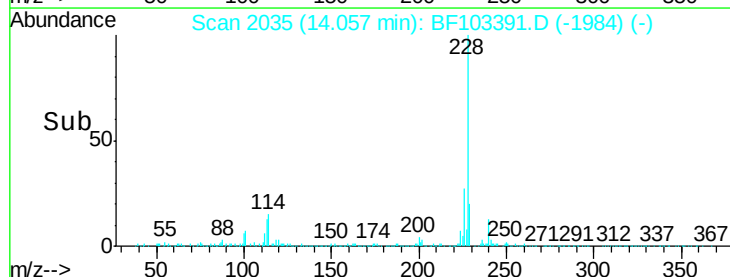
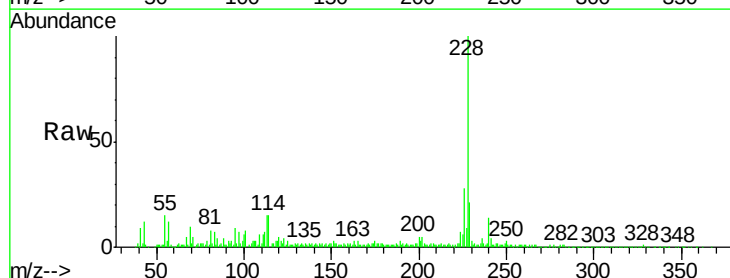
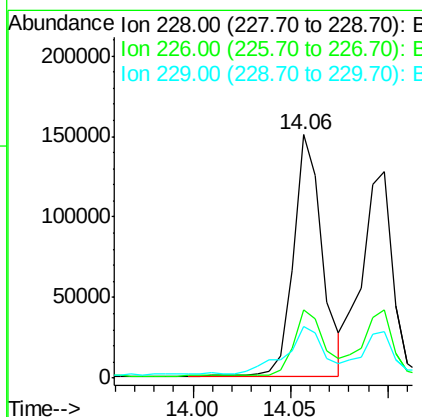
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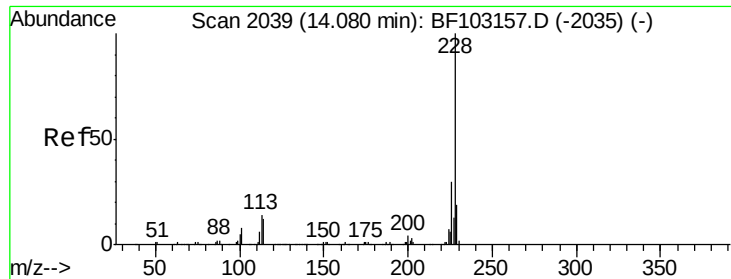
Sohil  
 3/5/2018 3:14:19 PM



#80  
 Benzo(a)anthracene  
 Concen: 11.901 ng  
 RT: 14.06 min Scan# 2035  
 Delta R.T. 0.00 min  
 Lab File: BF103391.D  
 Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 22.6  | 33.8  |
| 229     | 21.2  | 15.8  | 23.6  |





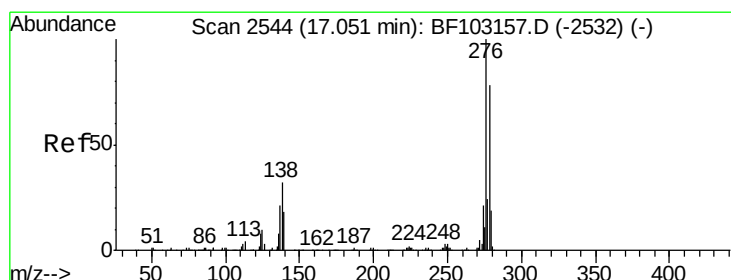
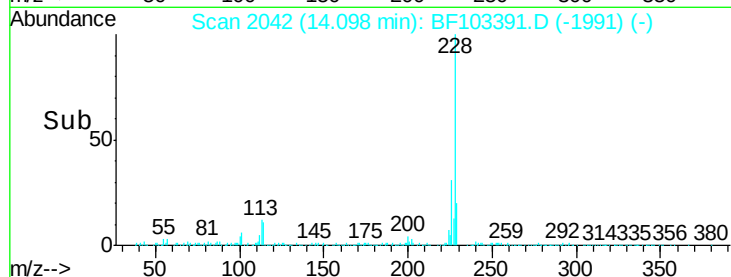
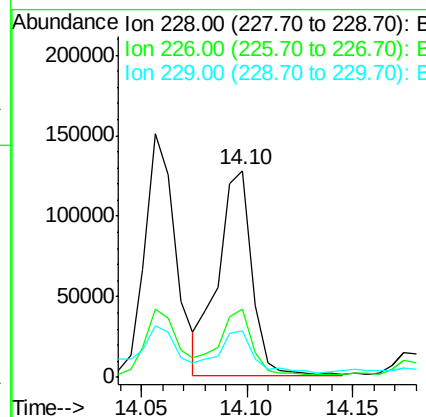
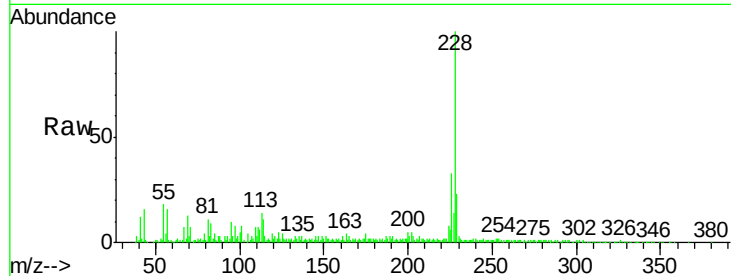
#82  
Chrysene  
Concen: 11.268 ng  
RT: 14.10 min Scan# 2042  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampled :  
SP-25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 141045 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.8  | 25.0  | 37.6   |
| 229       | 22.6  | 16.2  | 24.4   |

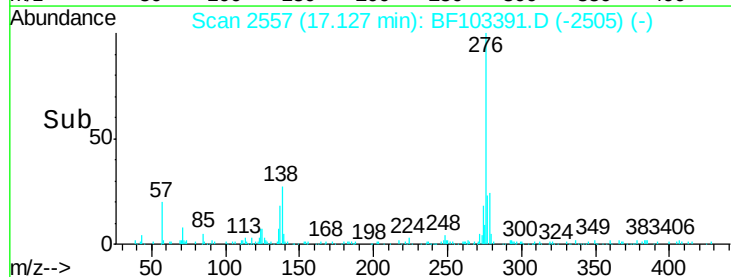
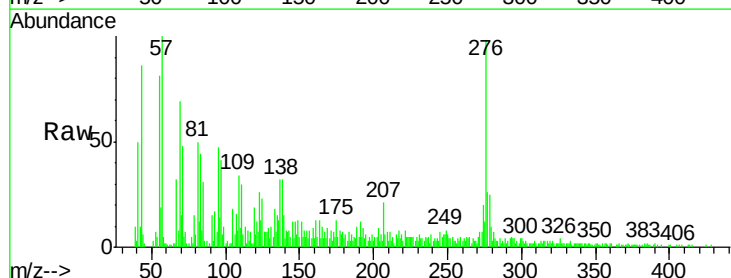
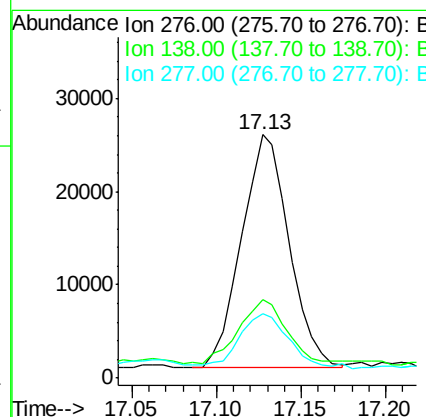
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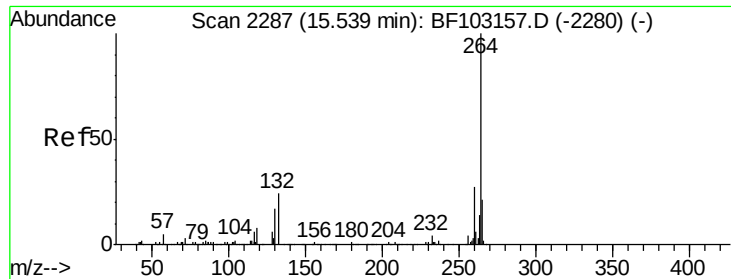
Sohil  
3/5/2018 3:14:19 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.961 ng  
RT: 17.13 min Scan# 2557  
Delta R.T. 0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 49158 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 27.6  | 25.0  | 37.6  |
| 277       | 24.0  | 20.1  | 30.1  |





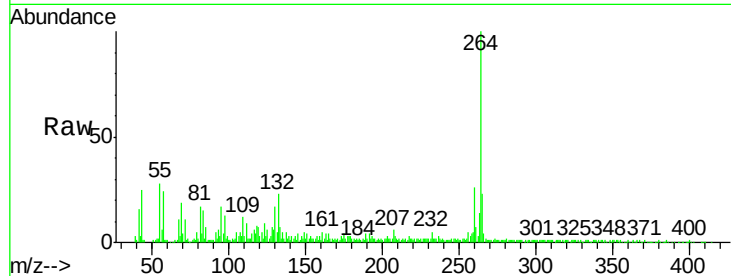
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.59 min Scan# 2295  
Delta R.T. 0.02 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampled :  
SP-25

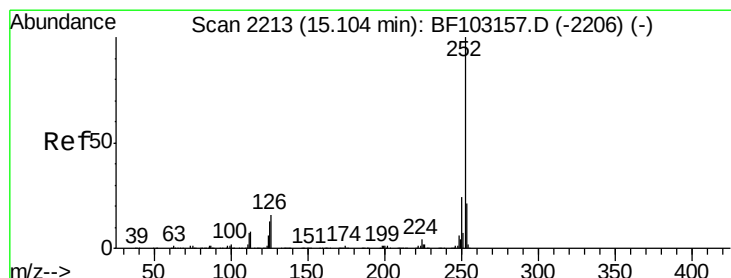
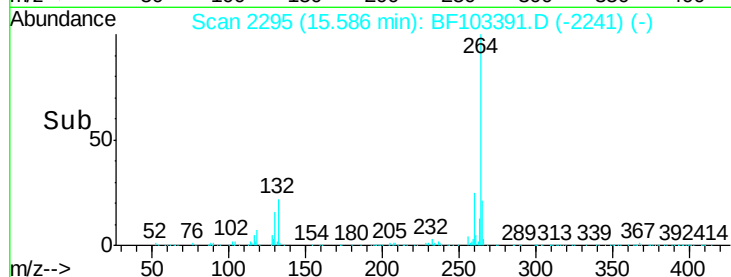
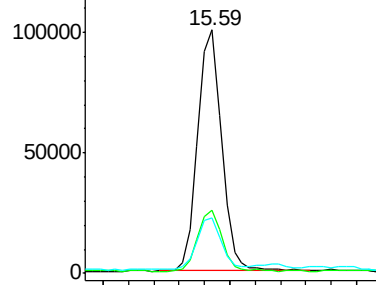
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 131794 |       |       |
| 260     | 26.1  | 19.2   | 28.8  |       |
| 265     | 22.6  | 17.5   | 26.3  |       |

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3/5/2018 3:14:19 PM

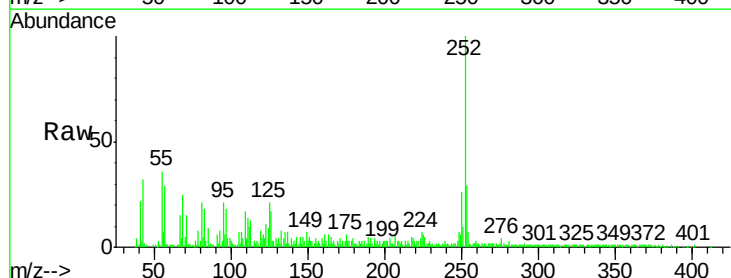


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

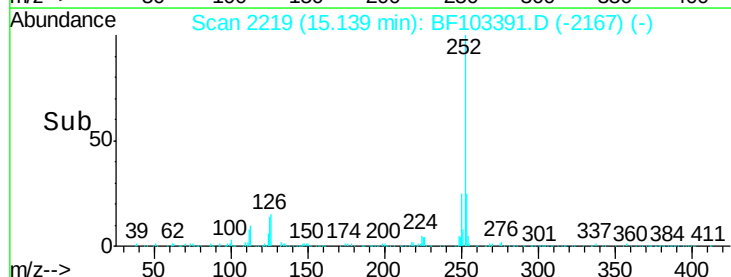
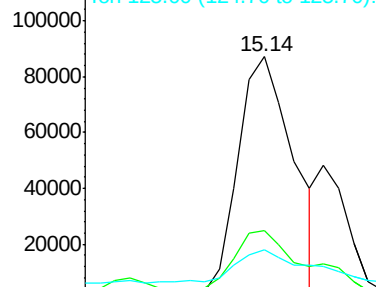


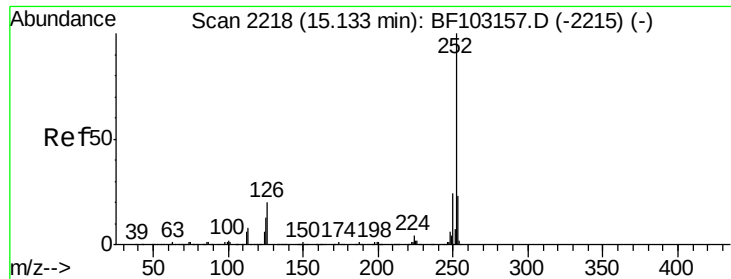
#87  
Benzo(b)fluoranthene  
Concen: 15.229 ng m  
RT: 15.14 min Scan# 2219  
Delta R.T. 0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 131961 |       |       |
| 253     | 28.7  | 17.0   | 25.6# |       |
| 125     | 20.6  | 9.0    | 13.6# |       |



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





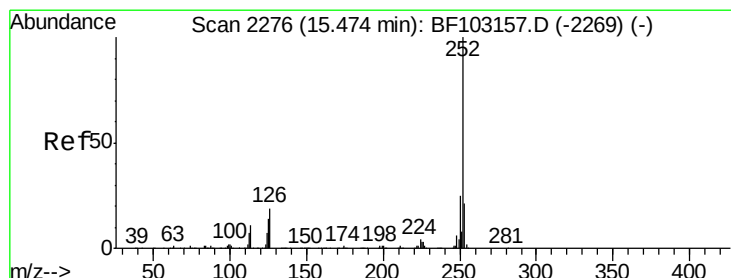
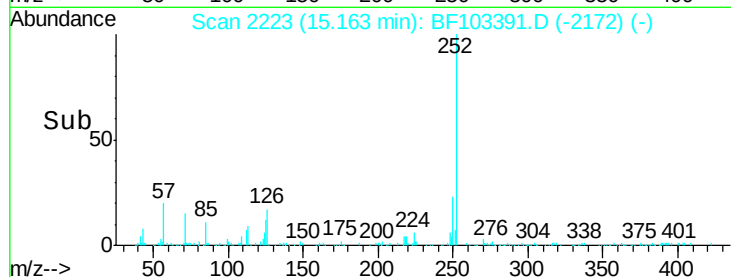
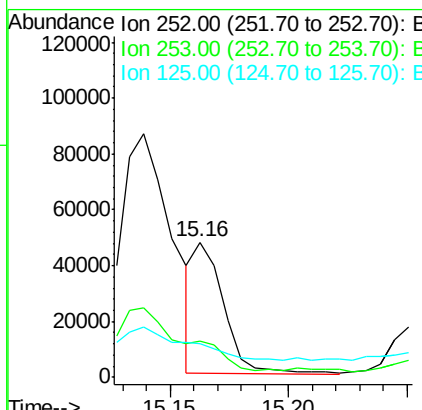
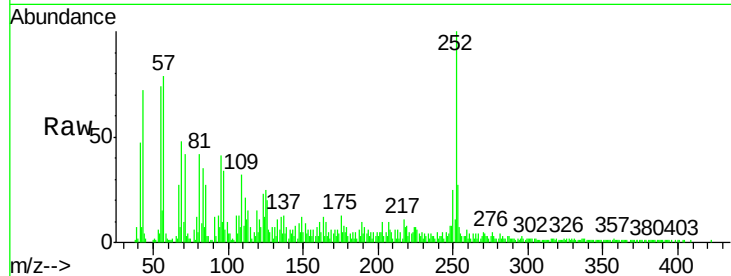
#88  
Benzo(k)fluoranthene  
Concen: 5.074 ng m  
RT: 15.16 min Scan# 2223  
Delta R.T. 0.00 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampled :  
SP-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.9  | 17.9  | 26.9  |
| 125     | 25.4  | 10.2  | 15.2  |

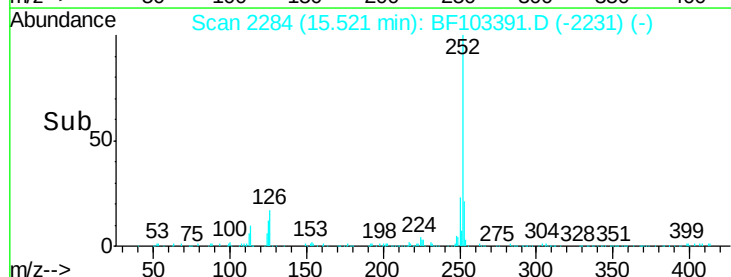
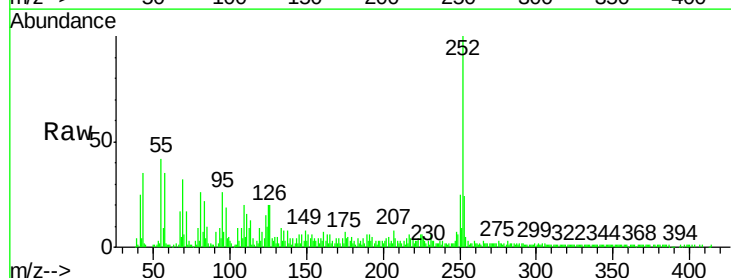
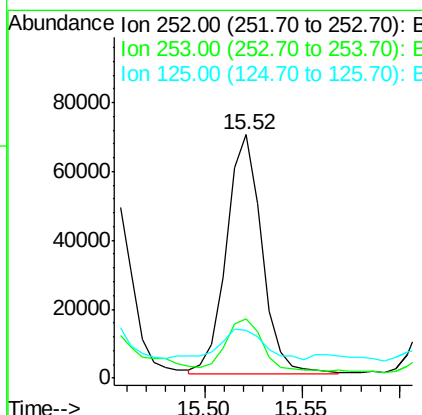
Manual Integrations  
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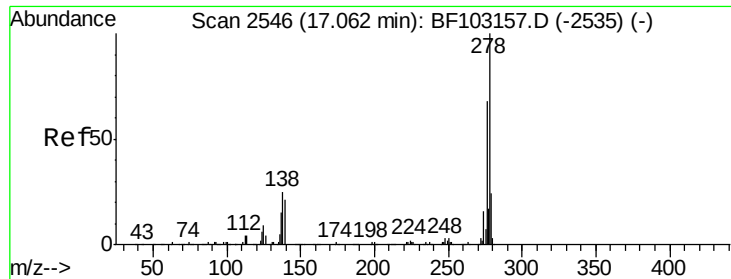
Sohil  
3/5/2018 3:14:19 PM



#89  
Benzo(a)pyrene  
Concen: 11.283 ng  
RT: 15.52 min Scan# 2284  
Delta R.T. 0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 17.1  | 25.7  |
| 125     | 19.8  | 9.8   | 14.6  |





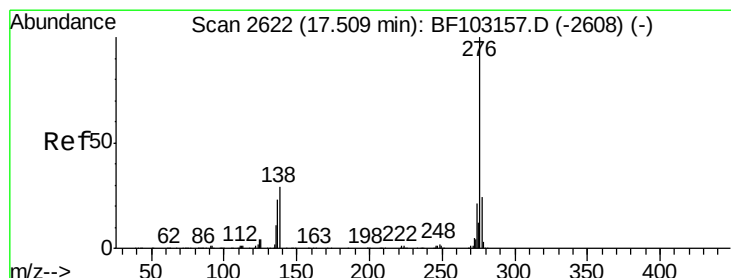
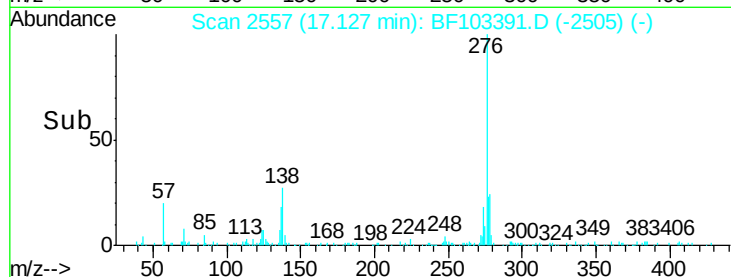
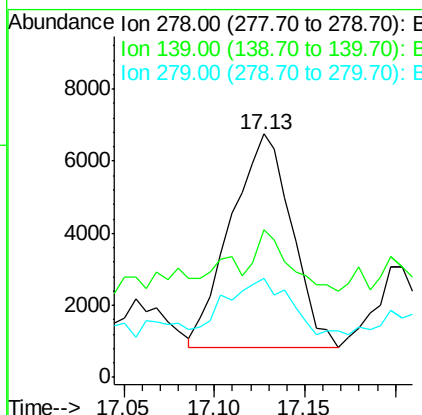
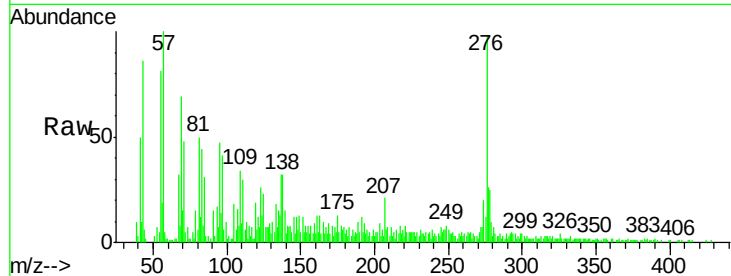
#90  
Dibenzo(a,h)anthracene  
Concen: 2.325 ng  
RT: 17.13 min Scan# 2557  
Delta R.T. 0.01 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

Instrument :  
BNA\_F  
ClientSampled :  
SP-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 60.5  | 15.9  | 23.9# |
| 279     | 40.7  | 19.0  | 28.4# |

Manual Integrations  
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3/5/2018 3:14:19 PM



#91  
Benzo(g,h,i)perylene  
Concen: 8.441 ng  
RT: 17.60 min Scan# 2637  
Delta R.T. 0.02 min  
Lab File: BF103391.D  
Acq: 3 Mar 2018 2:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.9  | 17.9  | 26.9  |
| 138     | 33.6  | 21.8  | 32.8# |

