

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042717\  
 Data File : BF094679.D  
 Acq On : 27 Apr 2017 22:25  
 Operator : SJ/MA  
 Sample : I2820-06  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB434C

Manual Integrations  
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mohammad  
 4/28/2017 3:01:01 PM

Quant Time: Apr 28 14:54:06 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.77  | 152  | 109514   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.27  | 136  | 376965   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.41  | 164  | 175789   | 20.00  | ng    | 0.01     |
| 63) Phenanthrene-d10        | 11.24 | 188  | 315414   | 20.00  | ng    | 0.01     |
| 75) Chrysene-d12            | 14.47 | 240  | 268828   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 16.10 | 264  | 213637   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 4.33  | 112  | 963743   | 146.00 | ng    | 0.03     |
| 7) Phenol-d6                | 5.40  | 99   | 1181347  | 151.81 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 6.43  | 82   | 737763   | 120.85 | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol    | 10.39 | 330  | 216376   | 157.37 | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 8.60  | 172  | 1084693  | 90.79  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.21 | 244  | 945860   | 94.05  | ng    | 0.01     |
| Target Compounds            |       |      |          |        |       |          |
| 37) 2-Methylnaphthalene     | 8.14  | 142  | 192315   | 15.51  | ng    | 96       |
| 49) Dimethylphthalate       | 9.10  | 163  | 157595   | 12.03  | ng    | # 98     |
| 51) Acenaphthene            | 9.45  | 154  | 91785    | 8.61   | ng    | # 91     |
| 57) Fluorene                | 10.09 | 166  | 168962   | 14.00  | ng    | # 88     |
| 70) Phenanthrene            | 11.27 | 178  | 522262   | 29.40  | ng    | 97       |
| 71) Anthracene              | 11.33 | 178  | 56721m   | 3.09   | ng    |          |
| 74) Fluoranthene            | 12.72 | 202  | 91437    | 4.97   | ng    | 95       |
| 77) Pyrene                  | 13.00 | 202  | 145338   | 7.74   | ng    | 95       |

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

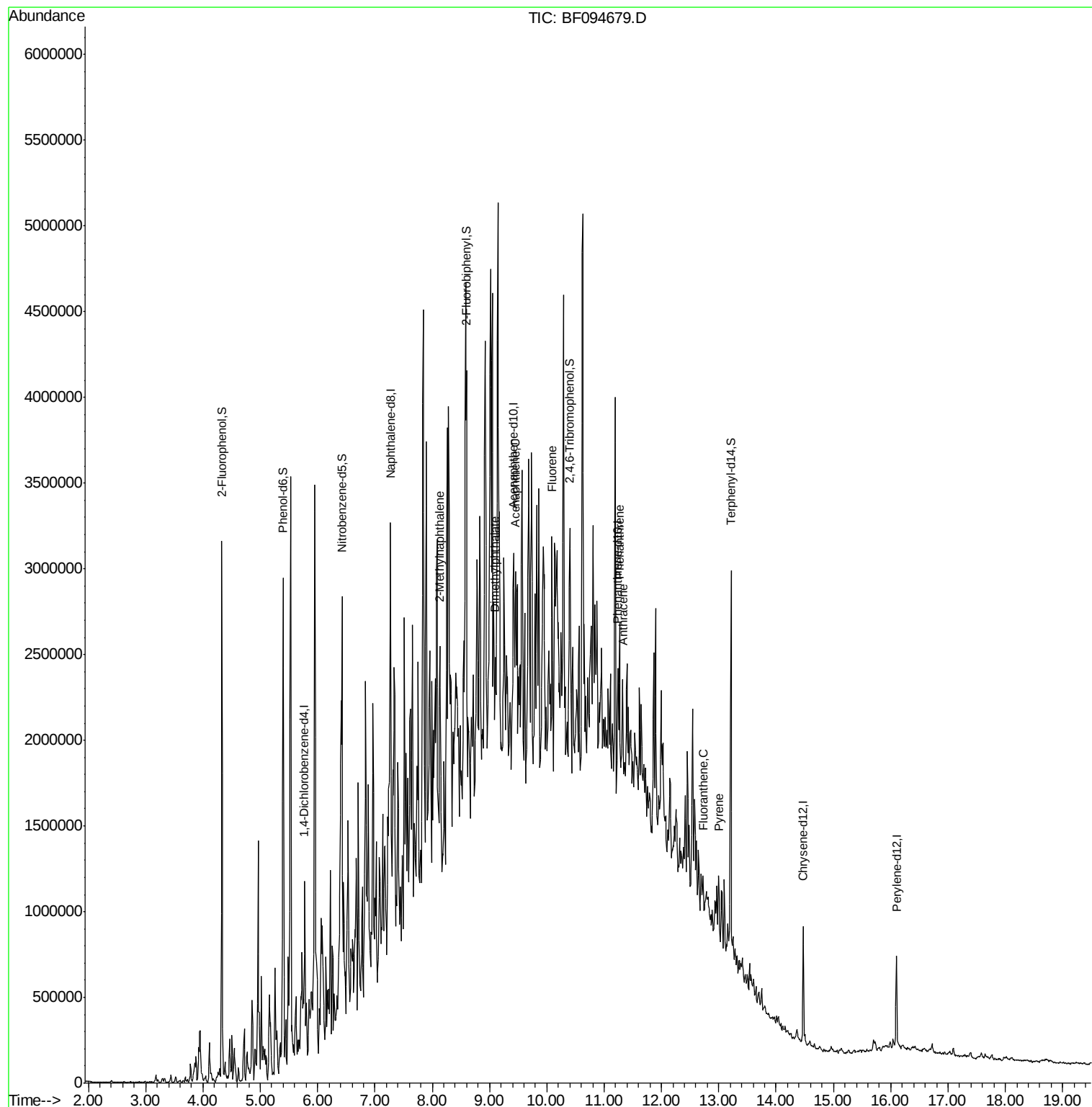
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042717\  
Data File : BF094679.D  
Acq On : 27 Apr 2017 22:25  
Operator : SJ/MA  
Sample : I2820-06  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

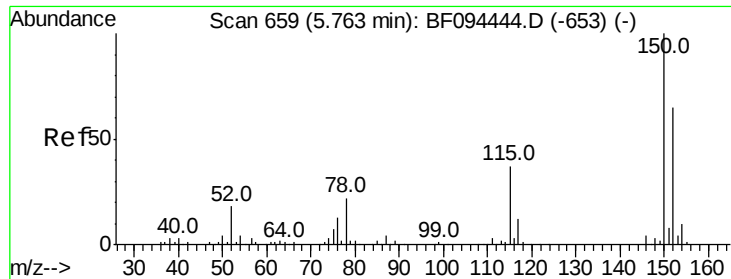
Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB434C

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Quant Time: Apr 28 14:54:06 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 17 14:59:23 2017  
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#1

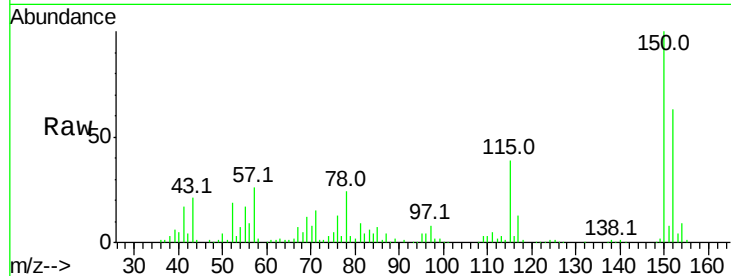
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.77 min Scan# 652  
Delta R.T. 0.01 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB434C

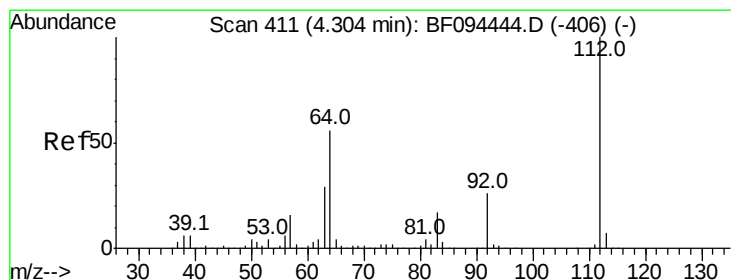
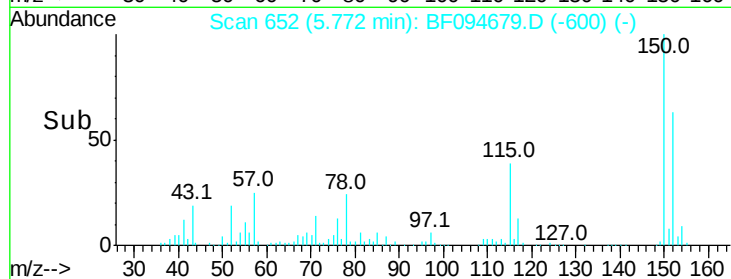
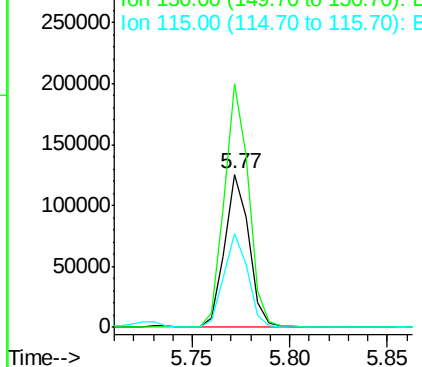
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.9 | 126.2 | 189.2 |
| 115     | 61.6  | 52.2  | 78.2  |

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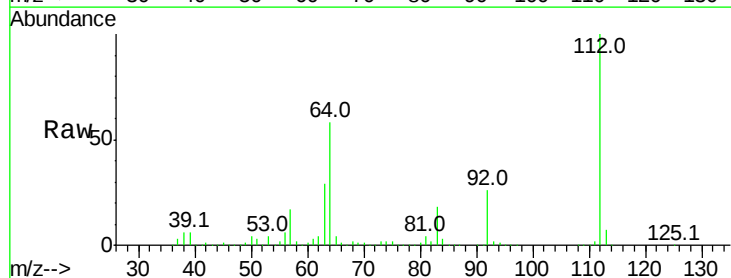
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



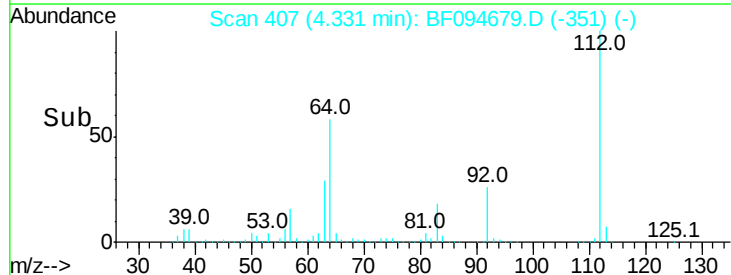
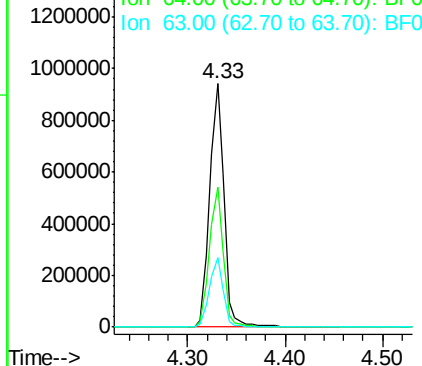
#5

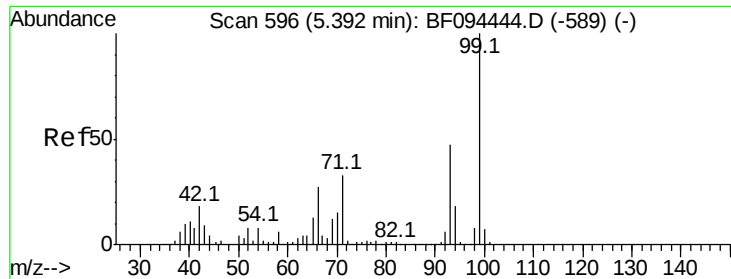
2-Fluorophenol  
Concen: 146.00 ng  
RT: 4.33 min Scan# 407  
Delta R.T. 0.03 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.7  | 46.0  | 69.0  |
| 63      | 28.7  | 23.4  | 35.0  |



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





#7

Phenol-d6

Concen: 151.81 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094679.D

Acq: 27 Apr 2017 22:25

Instrument :

BNA\_F

ClientSampled :

HY-SB434C

Tot Ion: 99 Resp: 1181347

Ion Ratio Lower Upper

99 100

42 17.5 13.5 20.3

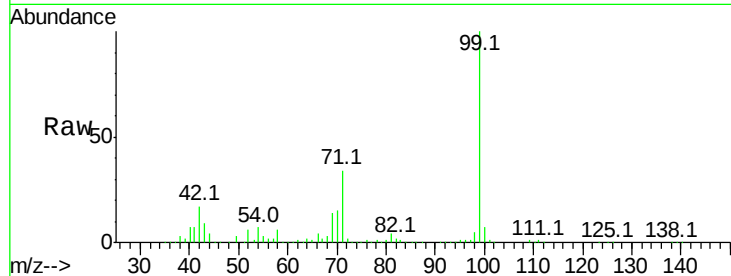
71 33.9 24.5 36.7

Manual Integrations

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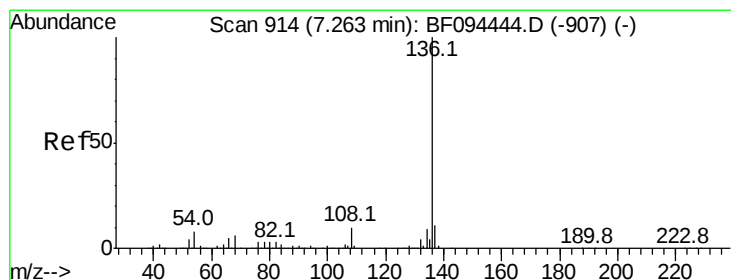
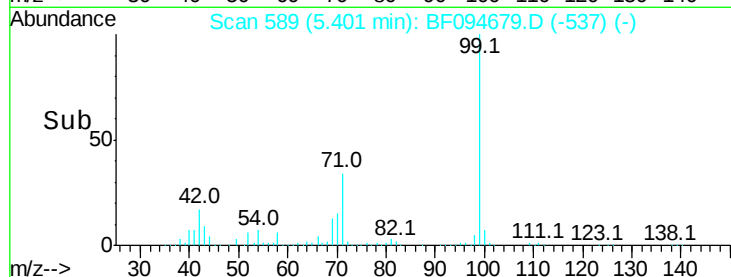
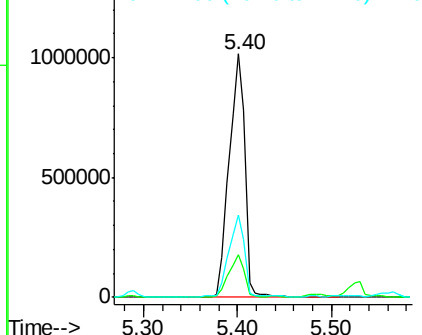
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.27 min Scan# 906

Delta R.T. 0.00 min

Lab File: BF094679.D

Acq: 27 Apr 2017 22:25

Tgt Ion:136 Resp: 376965

Ion Ratio Lower Upper

136 100

137 12.7 8.5 12.7

54 10.3 4.9 7.3#

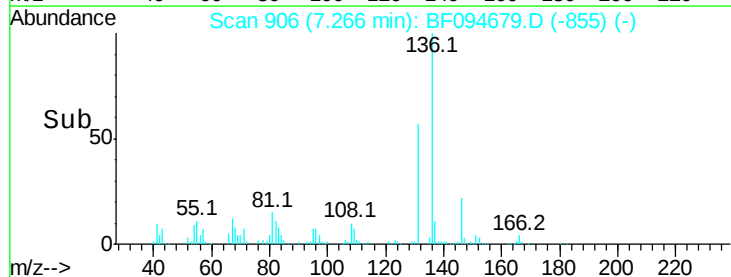
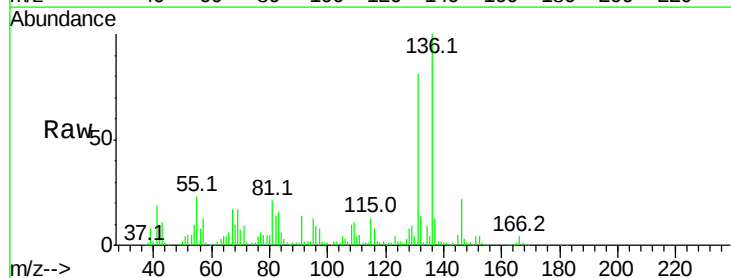
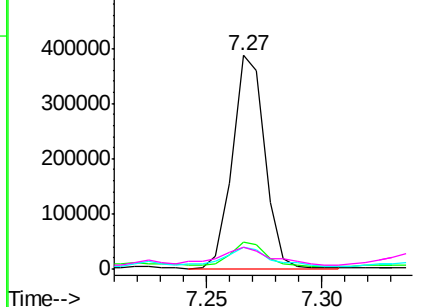
68 9.9 4.1 6.1#

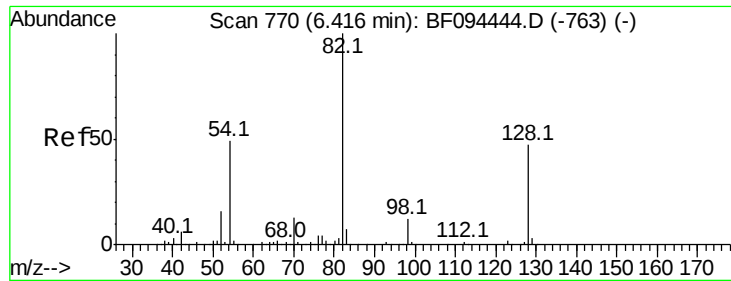
Abundance Ion 136.00 (135.70 to 136.70): E

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





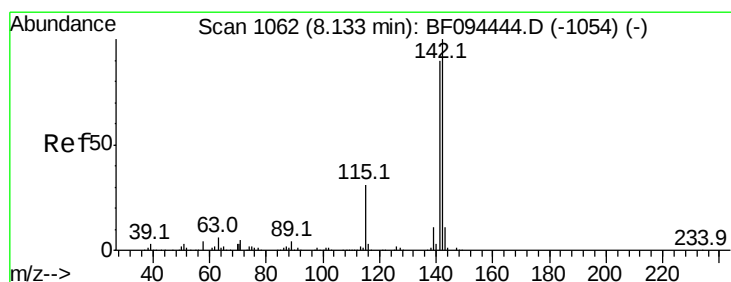
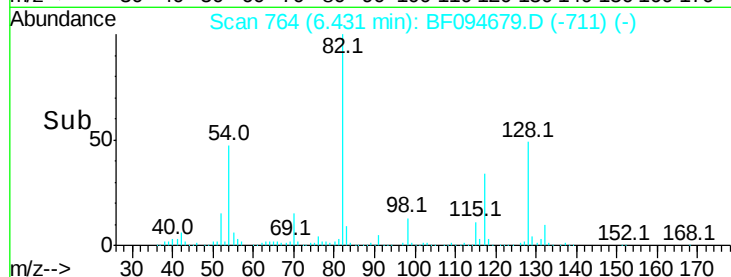
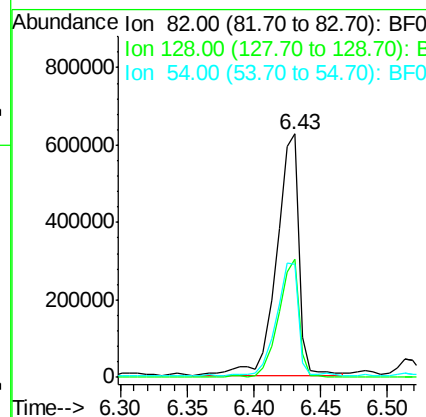
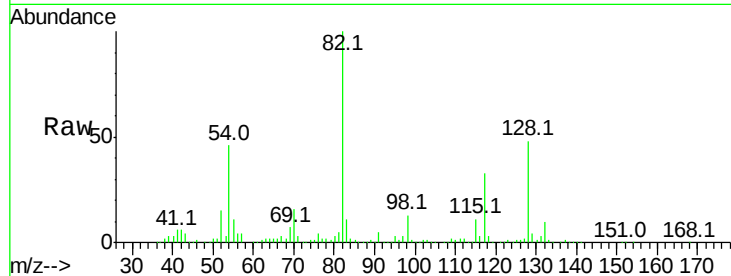
#23  
 Nitrobenzene-d5  
 Concen: 120.85 ng  
 RT: 6.43 min Scan# 764  
 Delta R.T. 0.01 min  
 Lab File: BF094679.D  
 Acq: 27 Apr 2017 22:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB434C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.4  | 34.0  | 51.0  |
| 54      | 46.4  | 42.2  | 63.2  |

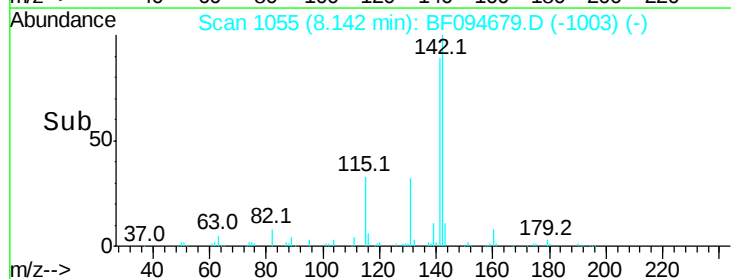
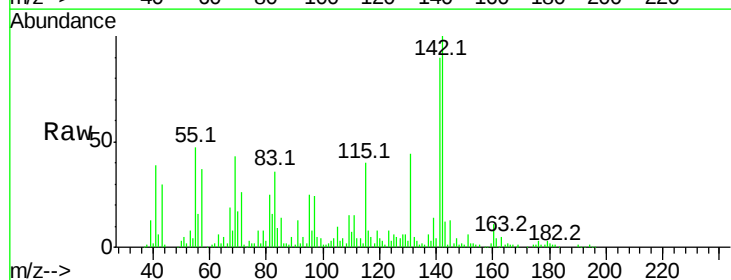
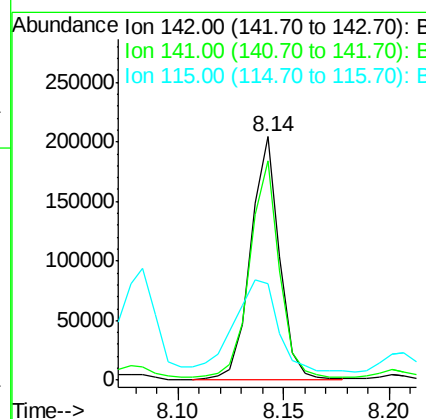
Manual Integrations  
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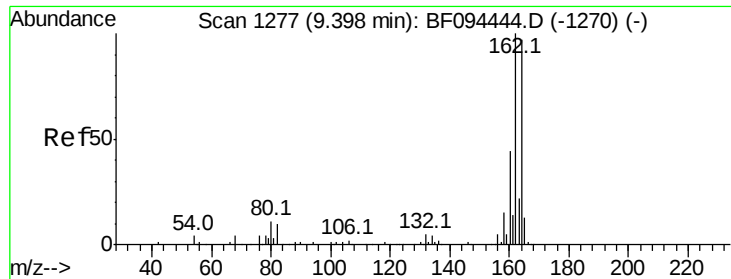
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#37  
 2-Methylnaphthalene  
 Concen: 15.51 ng  
 RT: 8.14 min Scan# 1055  
 Delta R.T. 0.01 min  
 Lab File: BF094679.D  
 Acq: 27 Apr 2017 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.1  | 71.3  | 106.9 |
| 115     | 39.8  | 27.1  | 40.7  |





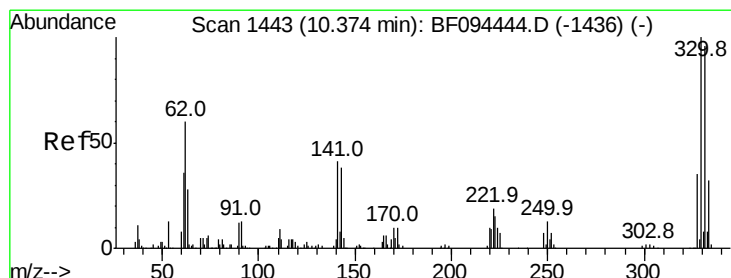
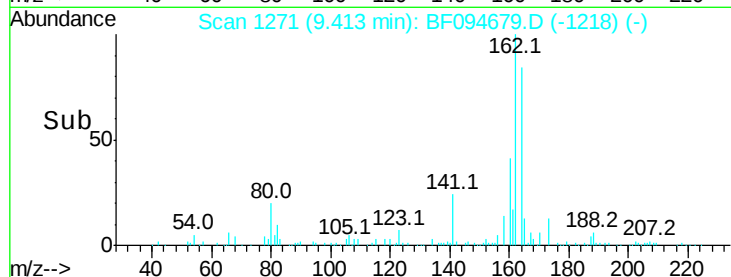
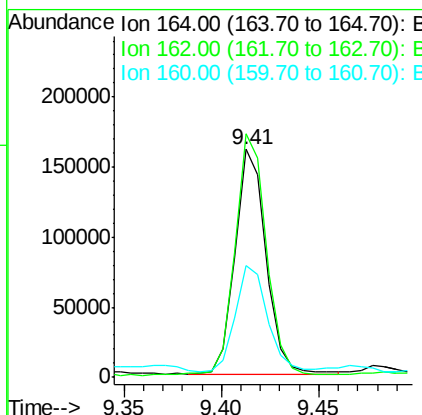
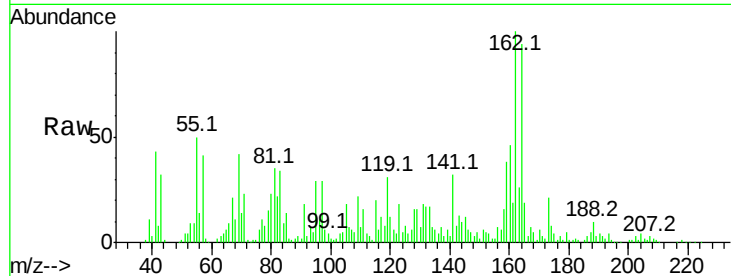
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.41 min Scan# 1271  
Delta R.T. 0.01 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB434C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.9 | 82.6  | 123.8 |
| 160     | 49.3  | 36.2  | 54.2  |

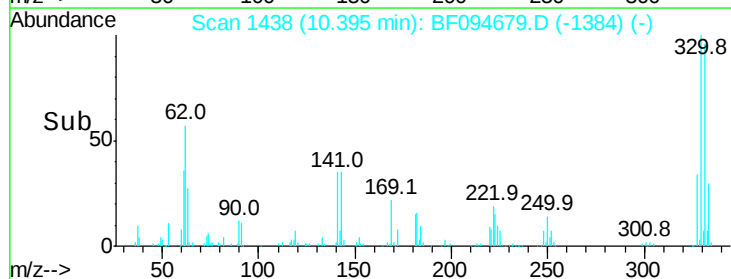
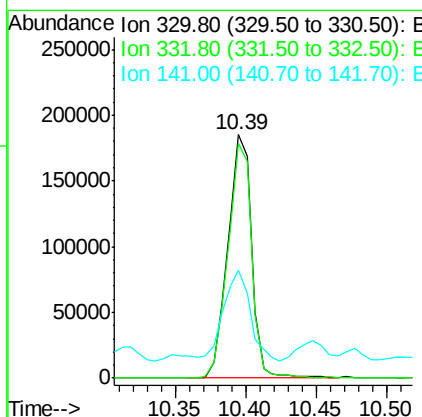
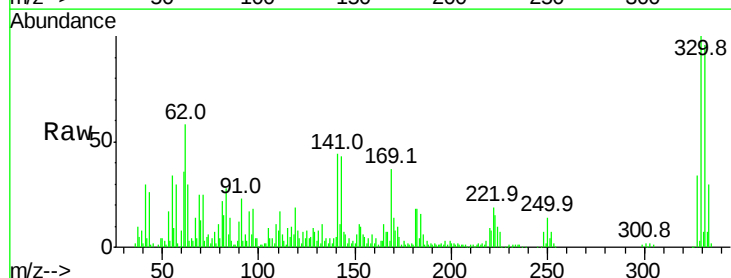
Manual Integrations  
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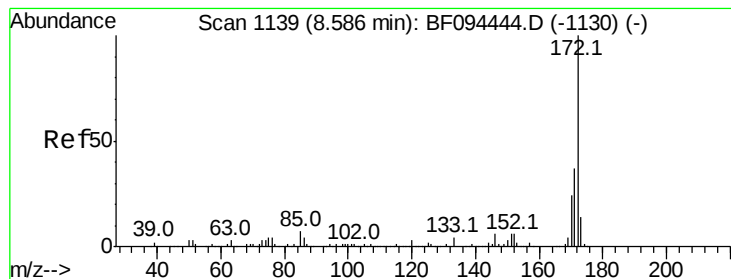
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#41  
2,4,6-Tribromophenol  
Concen: 157.37 ng  
RT: 10.39 min Scan# 1438  
Delta R.T. 0.02 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 76.6  | 115.0 |
| 141     | 41.9  | 31.4  | 47.2  |





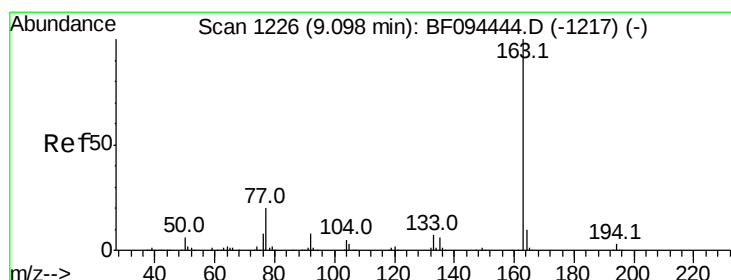
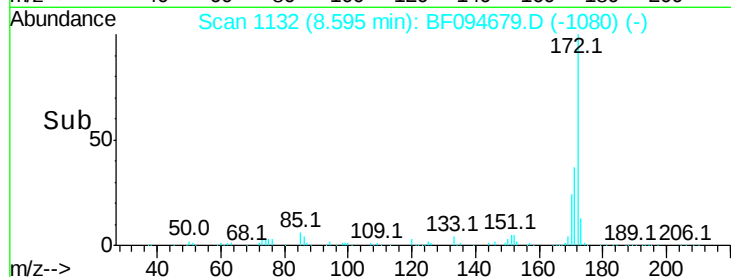
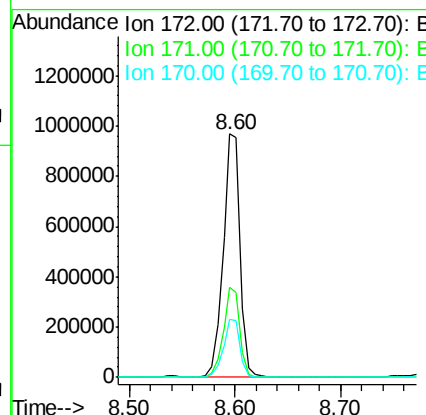
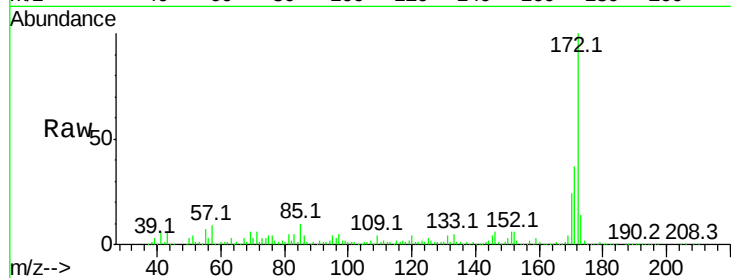
#44  
2-Fluorobiphenyl  
Concen: 90.79 ng  
RT: 8.60 min Scan# 1132  
Delta R.T. 0.01 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB434C

Tot Ion:172 Resp: 1084693  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.6 44.4  
170 24.0 19.8 29.8

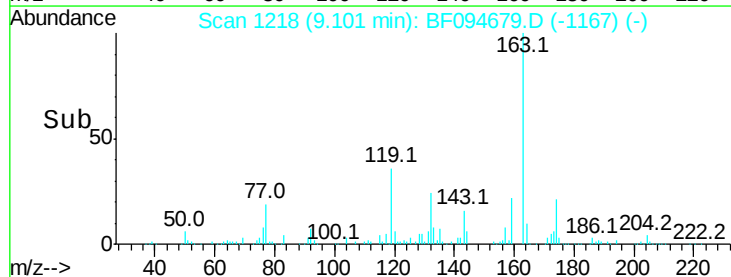
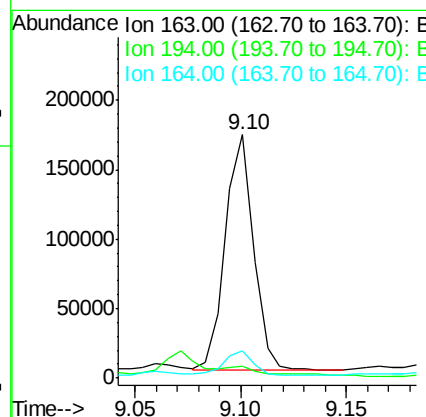
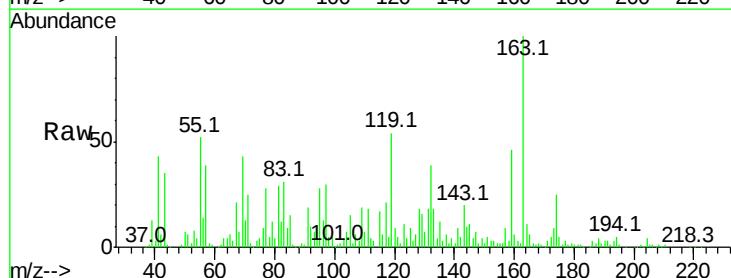
Manual Integrations  
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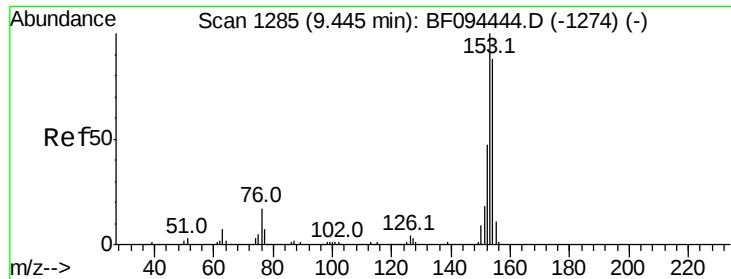
mohammad  
4/28/2017 3:01:01 PM



#49  
Dimethylphthalate  
Concen: 12.03 ng  
RT: 9.10 min Scan# 1218  
Delta R.T. 0.00 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

Tgt Ion:163 Resp: 157595  
Ion Ratio Lower Upper  
163 100  
194 4.9 2.6 4.0#  
164 11.1 8.4 12.6





#51

Acenaphthene

Concen: 8.61 ng

RT: 9.45 min Scan# 1278

Delta R.T. 0.01 min

Lab File: BF094679.D

Acq: 27 Apr 2017 22:25

Instrument :

BNA\_F

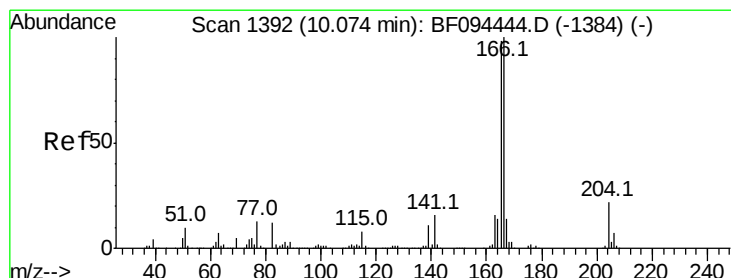
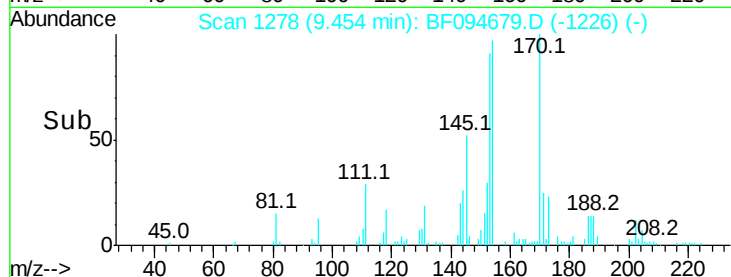
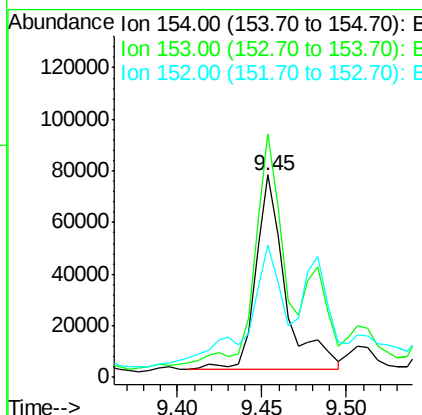
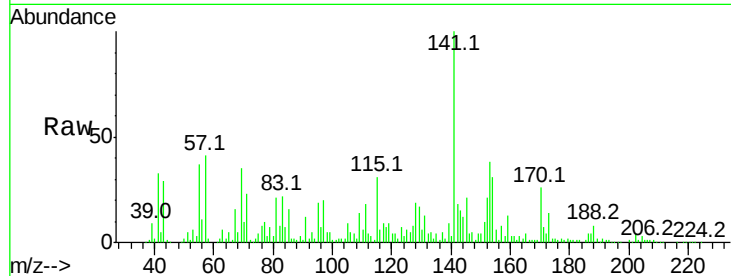
ClientSampleId :

HY-SB434C

Tot Ion:154 Resp: 91785  
 Ion Ratio Lower Upper  
 154 100  
 153 120.3 90.5 135.7  
 152 65.5 43.6 65.4#

Manual Integrations  
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#57

Fluorene

Concen: 14.00 ng

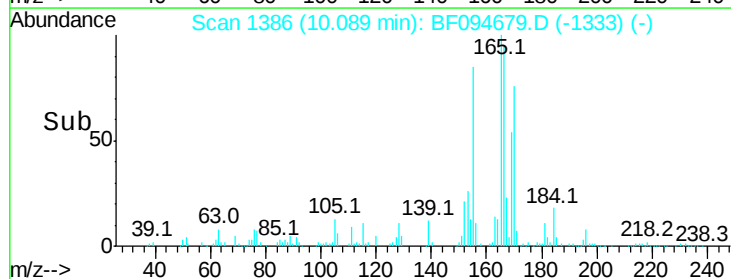
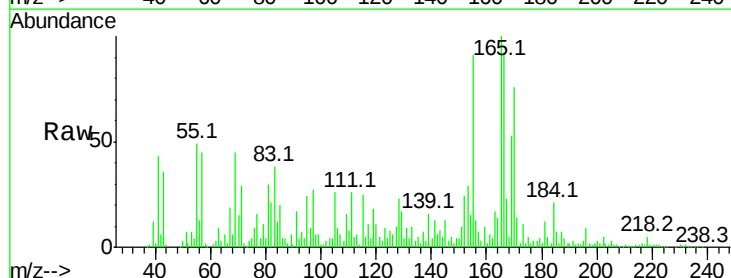
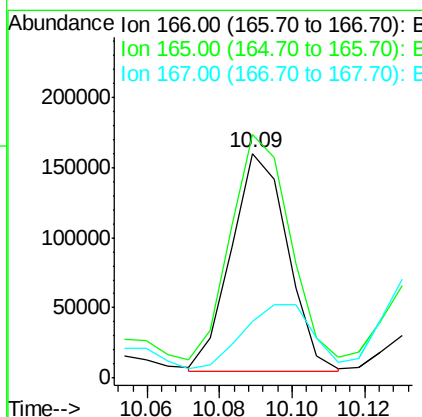
RT: 10.09 min Scan# 1386

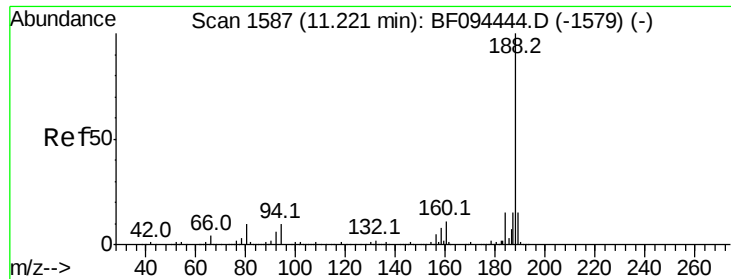
Delta R.T. 0.01 min

Lab File: BF094679.D

Acq: 27 Apr 2017 22:25

Tgt Ion:166 Resp: 168962  
 Ion Ratio Lower Upper  
 166 100  
 165 108.5 78.8 118.2  
 167 25.2 10.6 16.0#





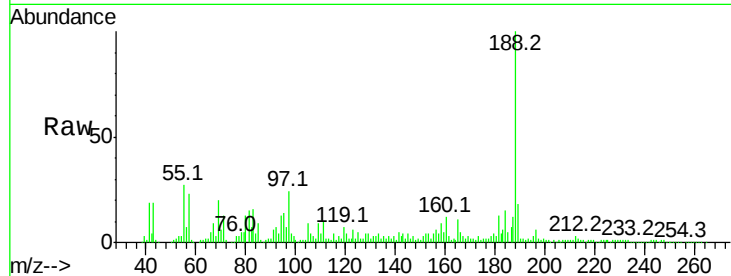
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.24 min Scan# 1581  
Delta R.T. 0.01 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB434C

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 315414 |       |       |
| 94      | 12.7  |        | 9.4   | 14.2  |
| 80      | 13.2  |        | 10.2  | 15.2  |

Manual Integrations  
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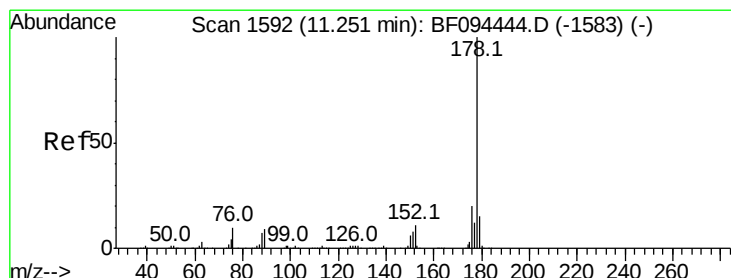
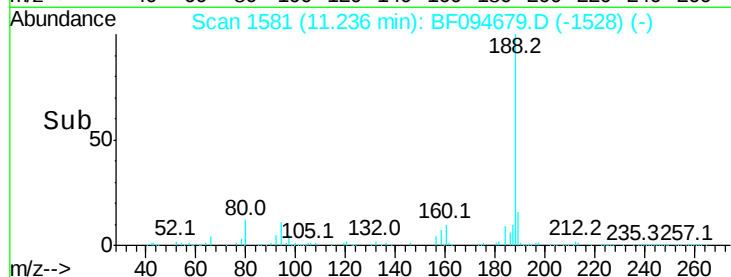
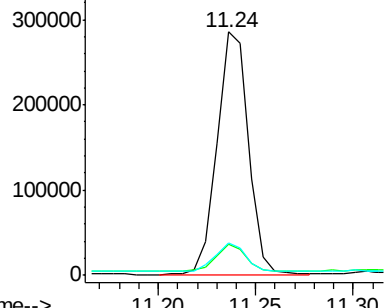
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Abundance Ion 188.00 (187.70 to 188.70): E

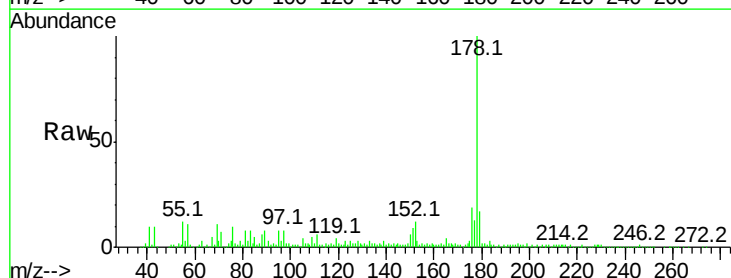
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70  
Phenanthrene  
Concen: 29.40 ng  
RT: 11.27 min Scan# 1587  
Delta R.T. 0.02 min  
Lab File: BF094679.D  
Acq: 27 Apr 2017 22:25

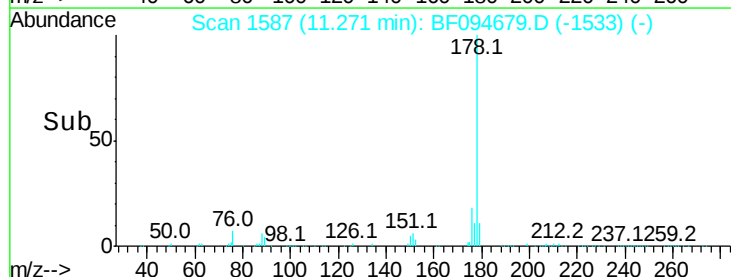
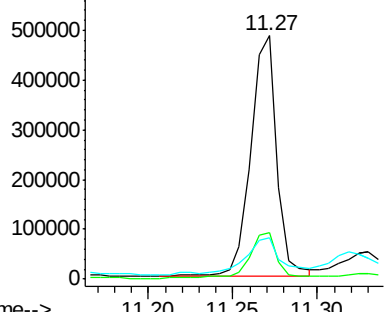
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 522262 |       |       |
| 176     | 19.3  |        | 16.2  | 24.4  |
| 179     | 17.2  |        | 12.6  | 19.0  |

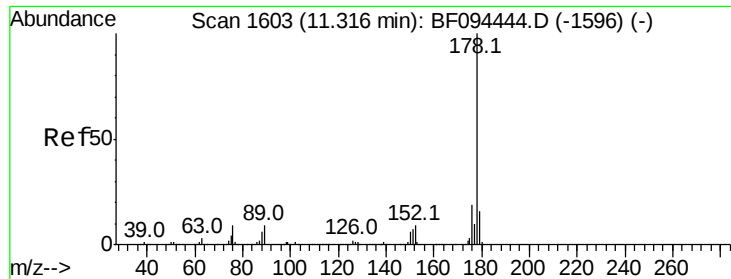


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.09 ng/mL

RT: 11.33 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BF094679.D

Acq: 27 Apr 2017 22:25

Instrument :

BNA\_F

ClientSampleId :

HY-SB434C

Tot Ion:178 Resp: 56721

Ion Ratio Lower Upper

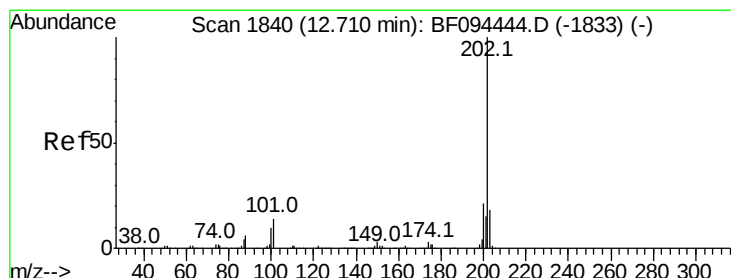
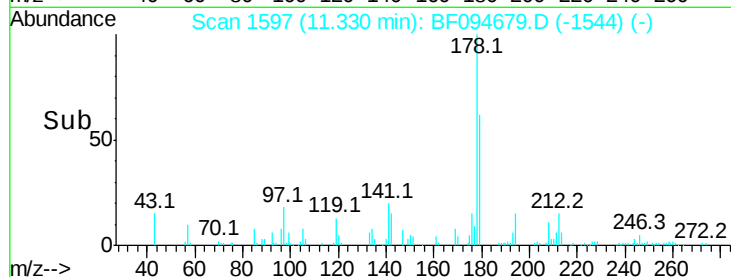
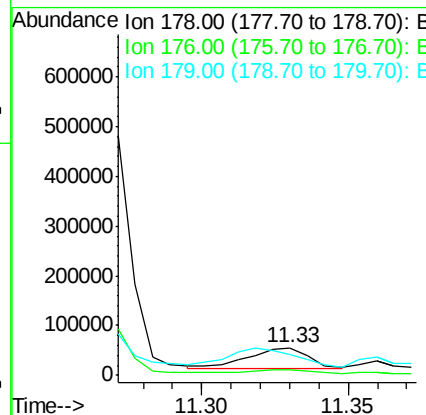
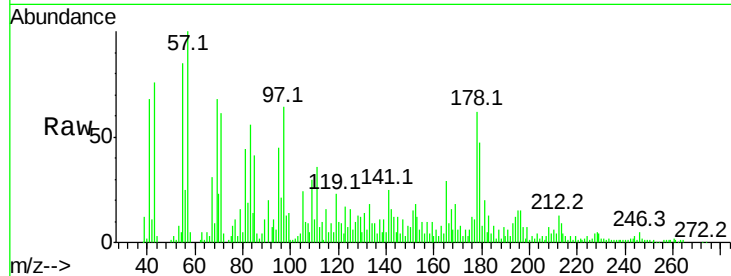
178 100

176 19.3 15.8 23.8

179 75.8 12.7 19.1#

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#74

Fluoranthene

Concen: 4.97 ng/mL

RT: 12.72 min Scan# 1834

Delta R.T. 0.01 min

Lab File: BF094679.D

Acq: 27 Apr 2017 22:25

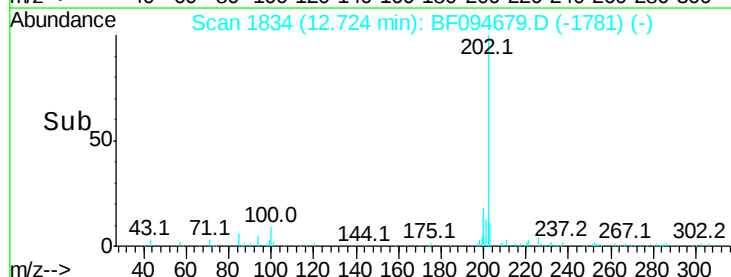
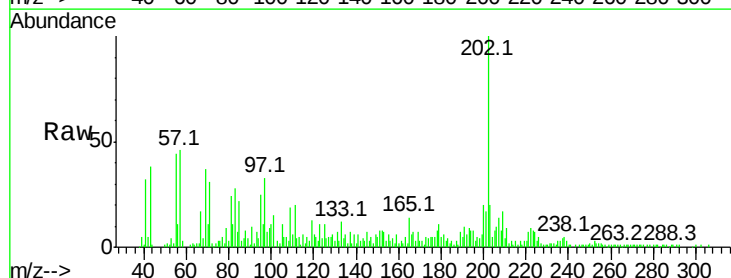
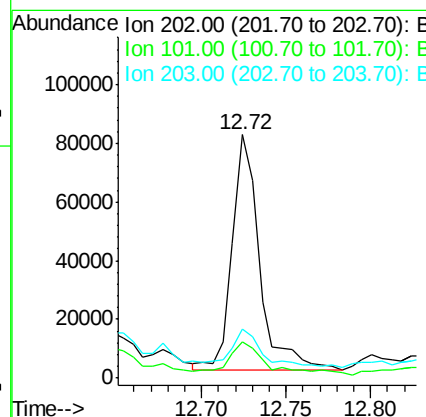
Tgt Ion:202 Resp: 91437

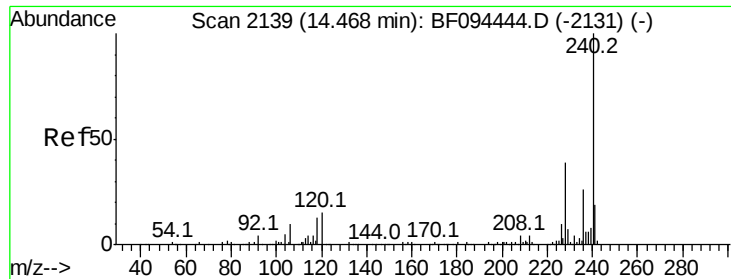
Ion Ratio Lower Upper

202 100

101 14.9 0.0 33.2

203 20.2 0.0 38.1





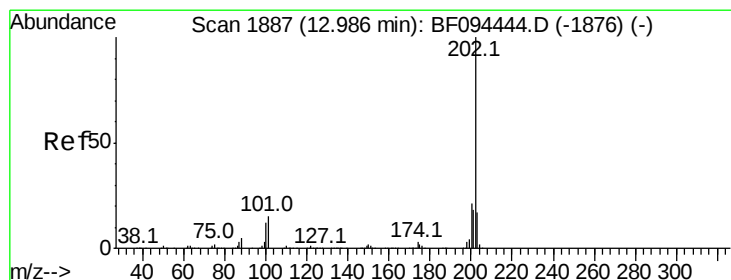
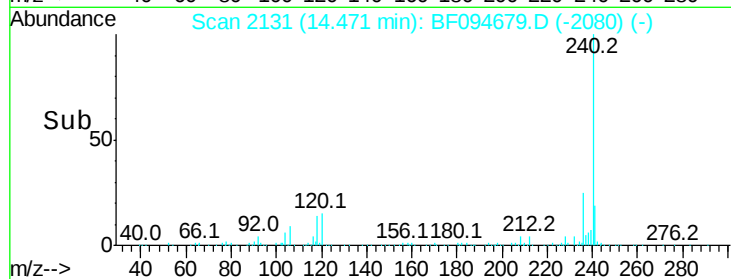
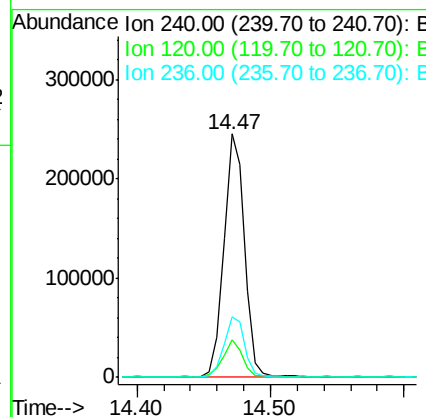
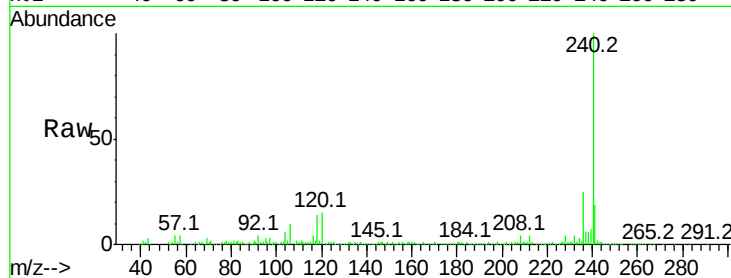
#75  
 Chrvsene-d12  
 Concen: 20.00 ng  
 RT: 14.47 min Scan# 2131  
 Delta R.T. 0.00 min  
 Lab File: BF094679.D  
 Acq: 27 Apr 2017 22:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB434C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.3  | 5.8   | 8.8#  |
| 236     | 24.8  | 20.5  | 30.7  |

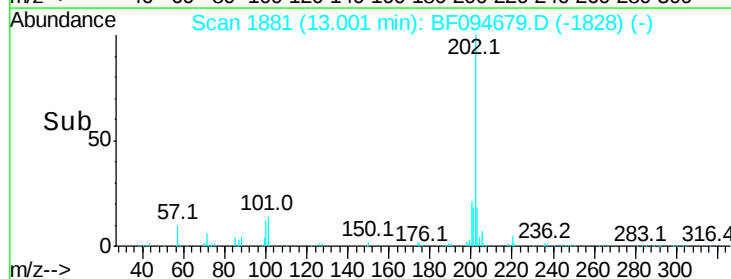
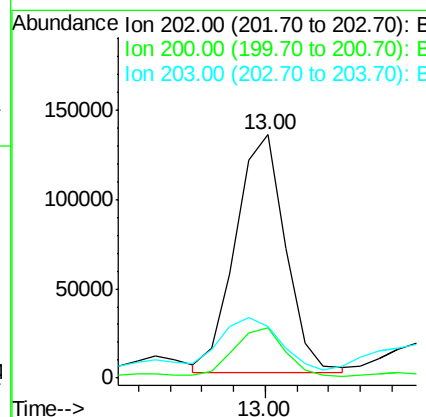
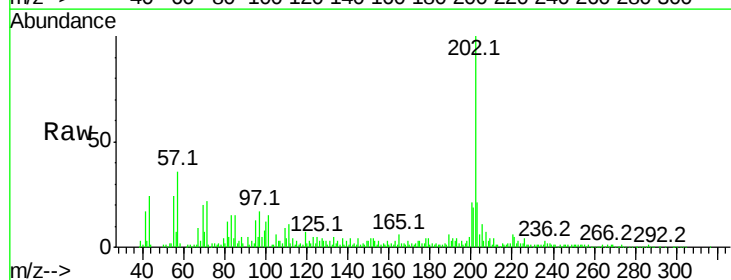
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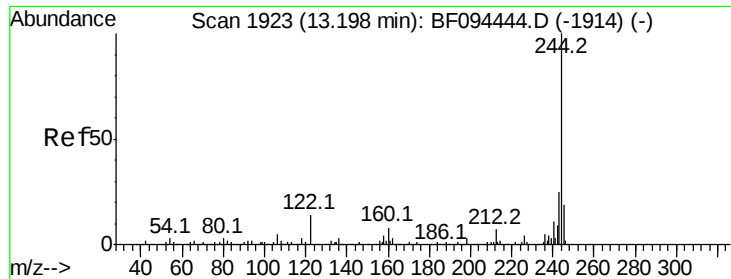
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#77  
 Pyrene  
 Concen: 7.74 ng  
 RT: 13.00 min Scan# 1881  
 Delta R.T. 0.01 min  
 Lab File: BF094679.D  
 Acq: 27 Apr 2017 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.8  | 17.6  | 26.4  |
| 203     | 21.3  | 14.4  | 21.6  |





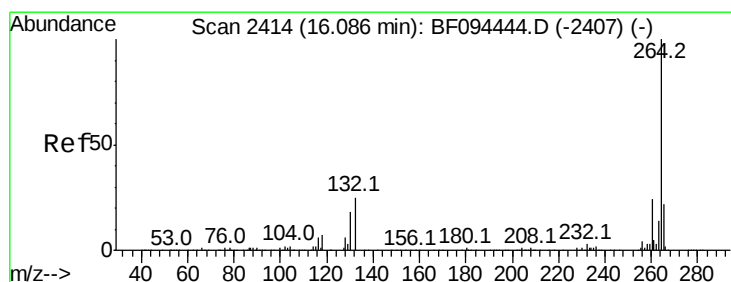
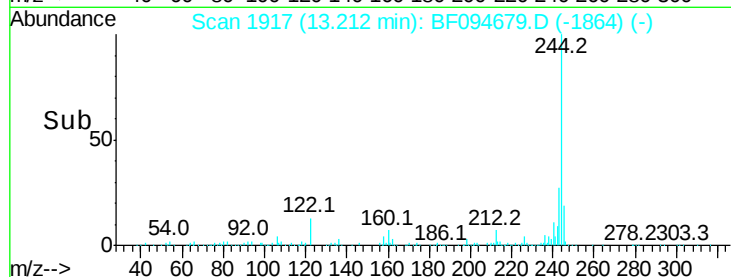
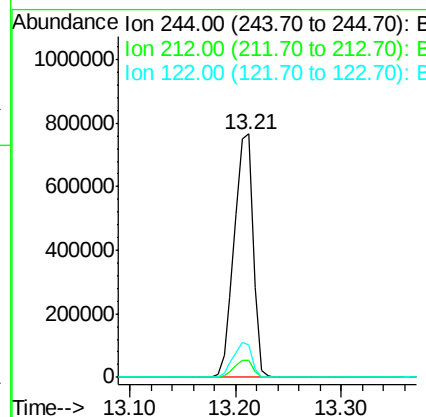
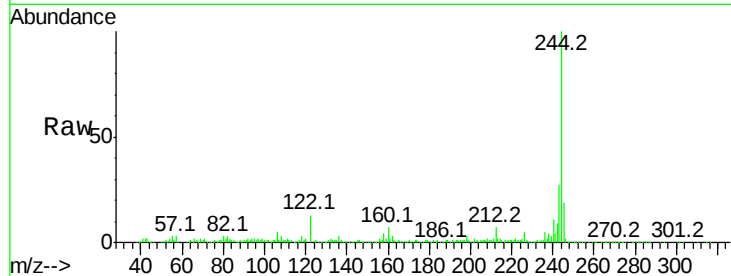
#78  
 Terphenyl-d14  
 Concen: 94.05 ng  
 RT: 13.21 min Scan# 1917  
 Delta R.T. 0.01 min  
 Lab File: BF094679.D  
 Acq: 27 Apr 2017 22:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB434C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 6.0   | 9.0   |
| 122     | 13.5  | 10.3  | 15.5  |

Manual Integrations  
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.10 min Scan# 2408  
 Delta R.T. 0.01 min  
 Lab File: BF094679.D  
 Acq: 27 Apr 2017 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 19.5  | 29.3  |
| 265     | 21.0  | 17.2  | 25.8  |

