

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040918\  
 Data File : BF104365.D  
 Acq On : 9 Apr 2018 12:12  
 Operator : JU/SJ  
 Sample : J2148-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4C

Manual Integrations  
 APPROVED

Sohil  
 4/10/2018 12:00:10 PM

Quant Time: Apr 10 01:37:05 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 06 16:44:53 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 145473   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.09  | 136  | 582993   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.84  | 164  | 264138   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.33 | 188  | 445022   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 13.97 | 240  | 276233   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 15.43 | 264  | 300620   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.42  | 112  | 1315820  | 138.30 | ng    | 0.02        |
| 7) Phenol-d6                | 6.44  | 99   | 1628339  | 139.30 | ng    | 0.01        |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 1020403  | 114.29 | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 398696   | 145.51 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.17  | 172  | 1572755  | 94.06  | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.92 | 244  | 1298381  | 107.16 | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.45  | 94   | 30236    | 2.438  | ng    | Qvalue # 56 |
| 49) Dimethylphthalate       | 9.56  | 163  | 140153   | 6.729  | ng    | 99          |
| 74) Fluoranthene            | 12.54 | 202  | 94303    | 3.642  | ng    | 97          |
| 77) Pyrene                  | 12.77 | 202  | 93242    | 4.554  | ng    | 99          |
| 80) Benzo(a)anthracene      | 13.96 | 228  | 40009    | 2.424  | ng    | 91          |
| 82) Chrysene                | 13.99 | 228  | 43705    | 2.578  | ng    | 98          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.86 | 276  | 32791    | 2.277  | ng    | 94          |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 58050m   | 3.057  | ng    |             |
| 89) Benzo(a)pyrene          | 15.37 | 252  | 45899    | 2.702  | ng    | # 90        |
| 91) Benzo(g,h,i)perylene    | 17.30 | 276  | 33388    | 2.470  | ng    | 94          |

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

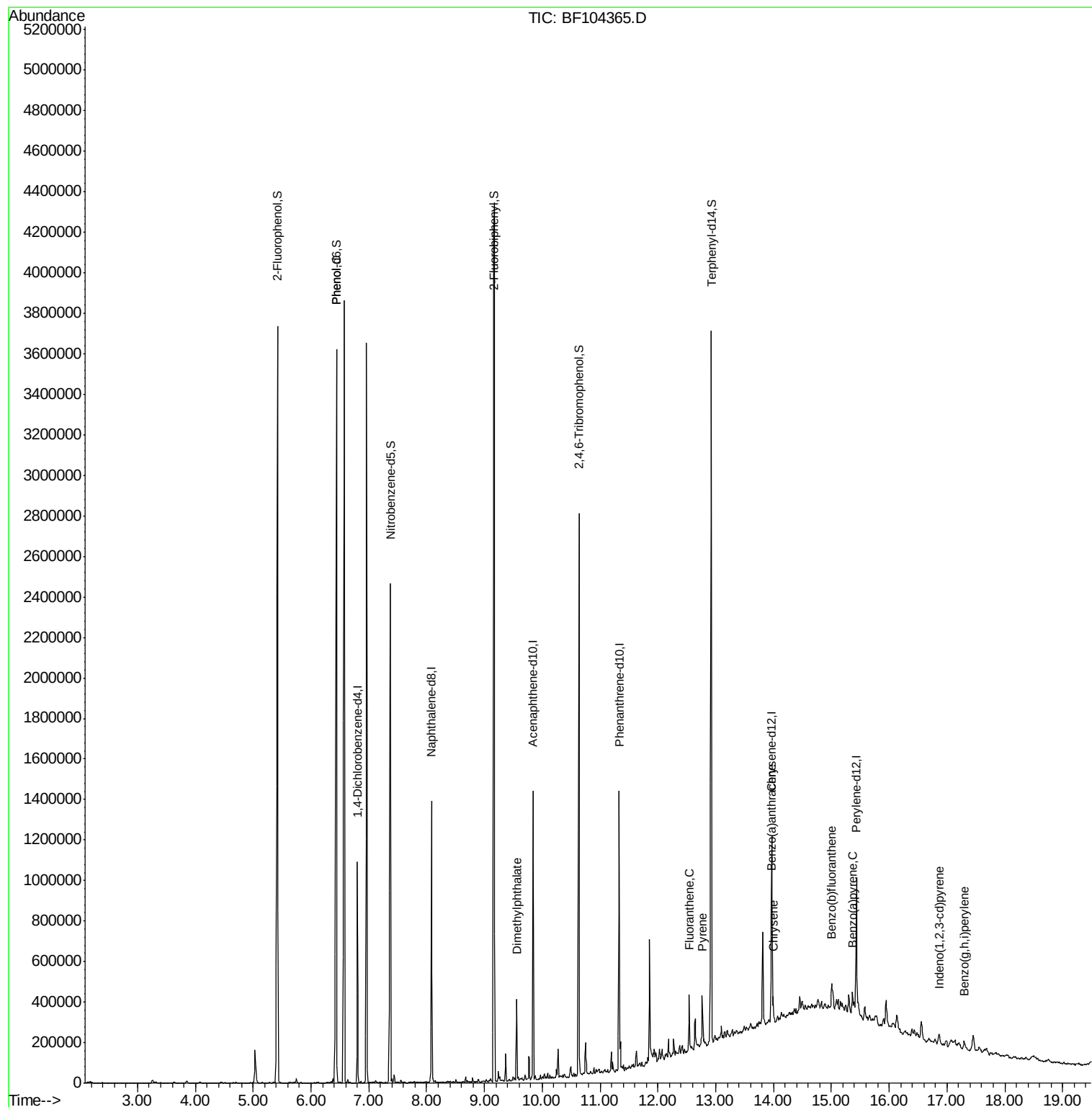
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040918\  
Data File : BF104365.D  
Acq On : 9 Apr 2018 12:12  
Operator : JU/SJ  
Sample : J2148-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

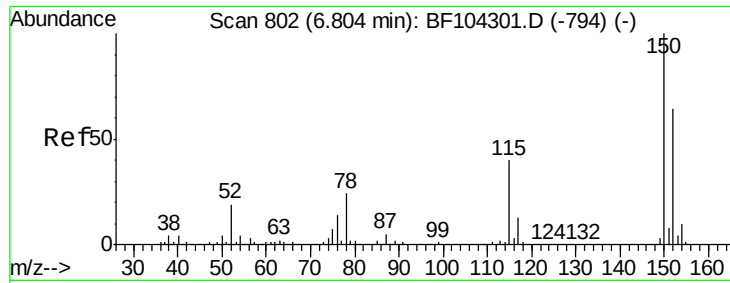
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4C

Manual Integrations  
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Sohil  
4/10/2018 12:00:10 PM

Quant Time: Apr 10 01:37:05 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 06 16:44:53 2018  
Response via : Initial Calibration





#1

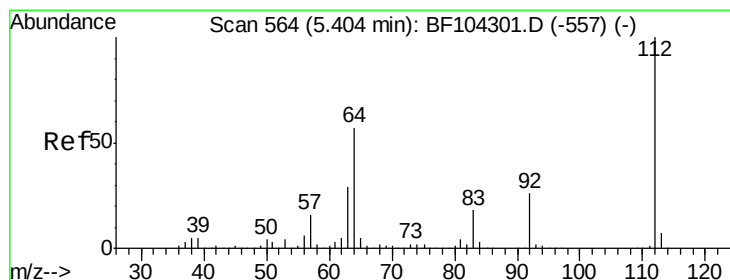
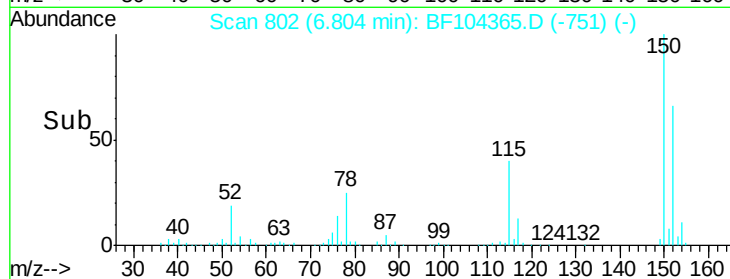
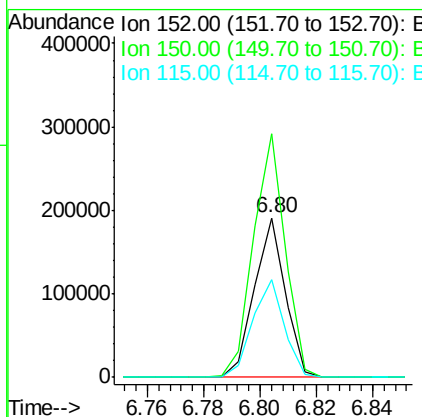
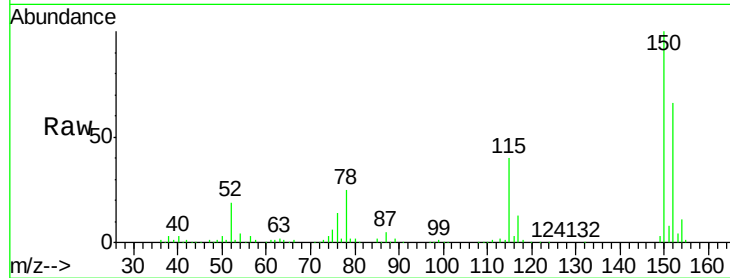
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.7 | 124.6 | 186.8 |
| 115     | 61.6  | 50.1  | 75.1  |

Manual Integrations  
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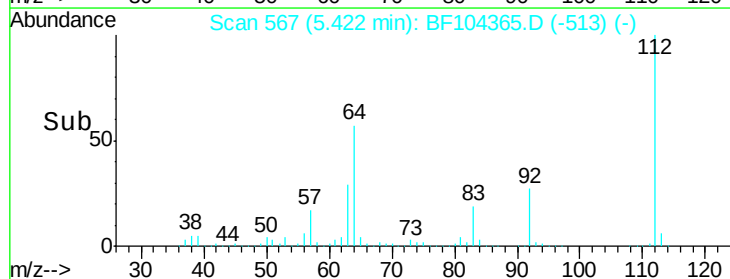
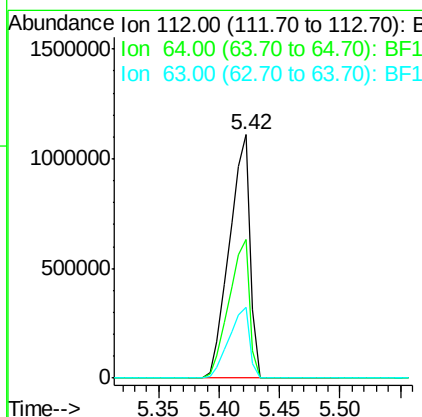
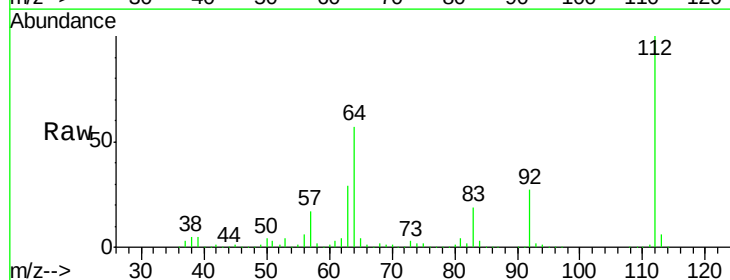
Sohil  
4/10/2018 12:00:10 PM

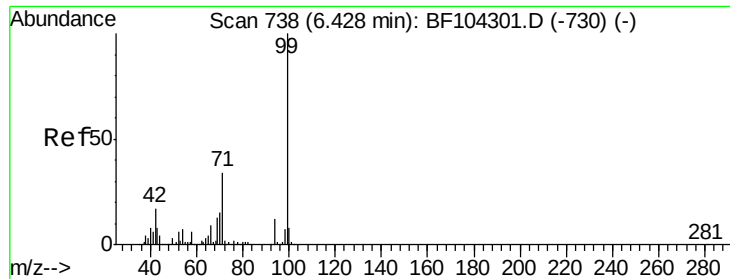


#5

2-Fluorophenol  
Concen: 138.305 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.02 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.7  | 47.9  | 71.9  |
| 63      | 28.8  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 139.299 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF104365.D

Acq: 9 Apr 2018 12:12

Instrument :

BNA\_F

ClientSampleId :

SB-4C

Tot Ion: 99 Resp: 1628339

Ion Ratio Lower Upper

99 100

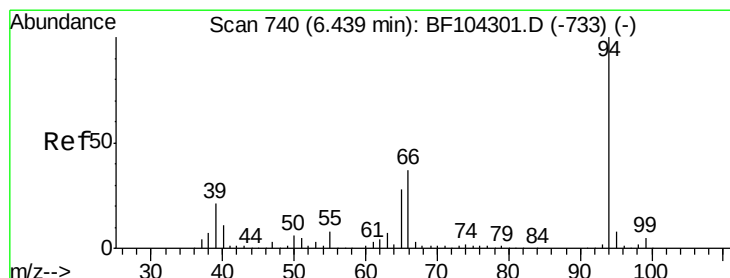
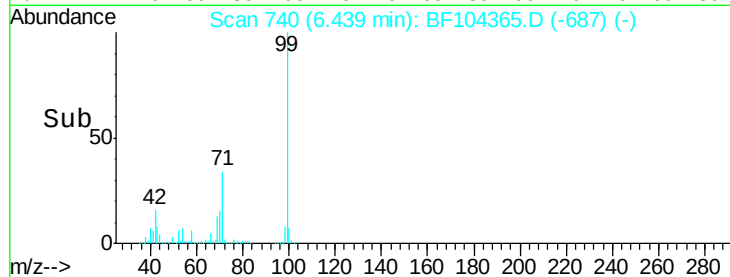
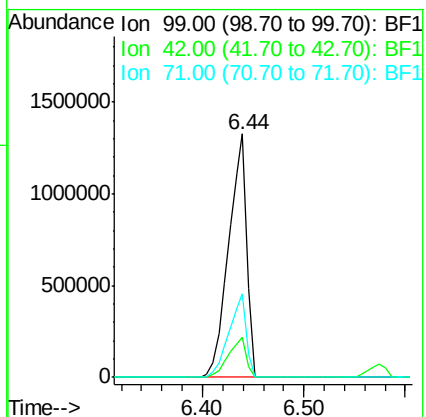
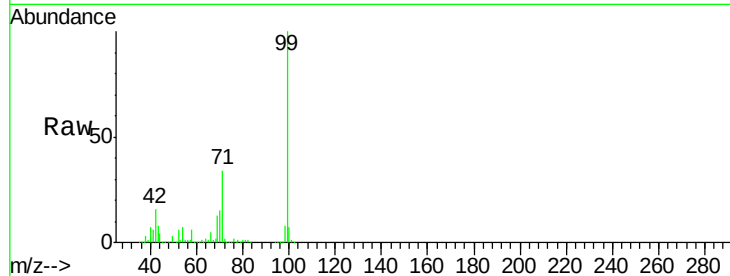
42 16.5 14.5 21.7

71 34.4 25.4 38.0

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#10

Phenol

Concen: 2.438 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.01 min

Lab File: BF104365.D

Acq: 9 Apr 2018 12:12

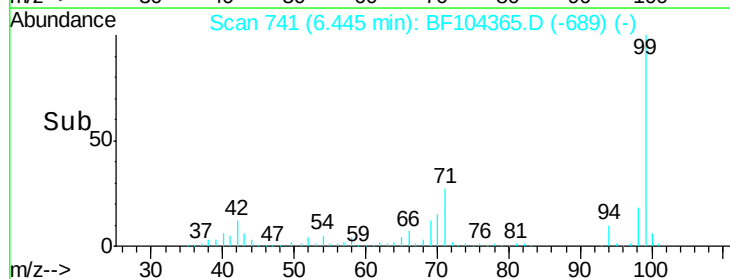
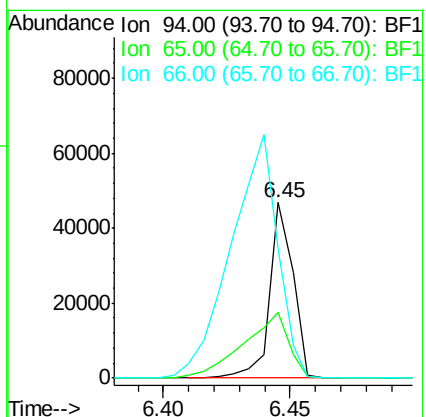
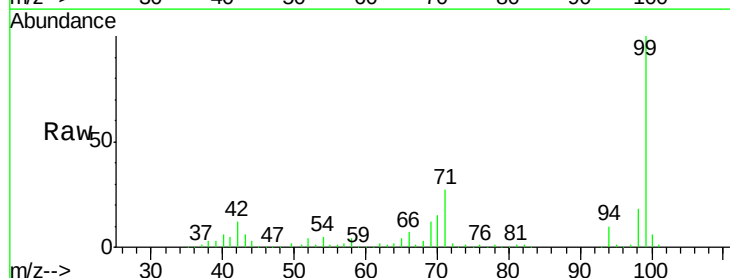
Tgt Ion: 94 Resp: 30236

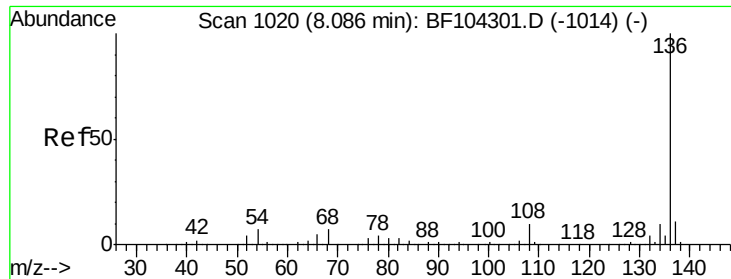
Ion Ratio Lower Upper

94 100

65 37.8 7.9 47.9

66 73.9 16.2 56.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF104365.D

Acq: 9 Apr 2018 12:12

Instrument :

BNA\_F

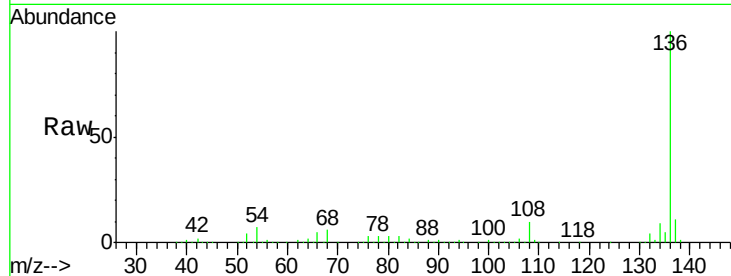
ClientSampled :

SB-4C

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 582993 |       |       |
| 137     | 10.6 |       | 8.9    | 13.3  |       |
| 54      | 6.9  |       | 6.6    | 9.8   |       |
| 68      | 6.2  |       | 5.0    | 7.4   |       |

Manual Integrations  
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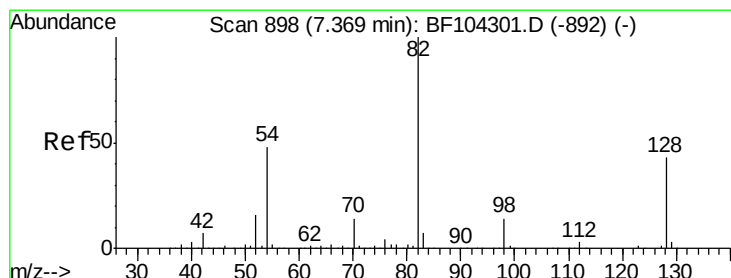
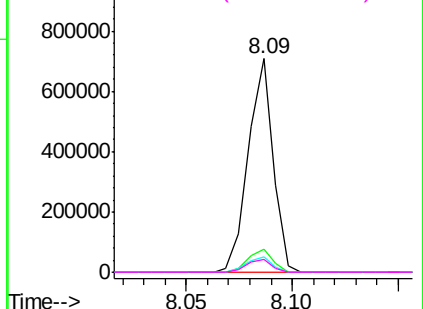
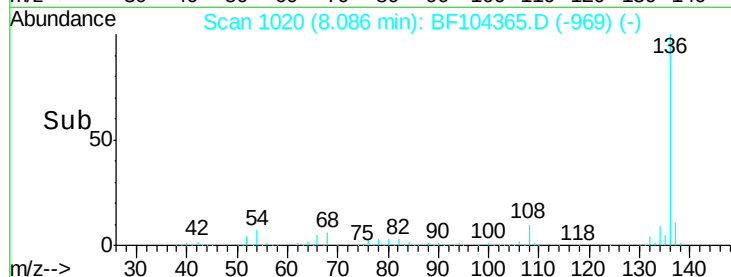


Abundance Ion 136.00 (135.70 to 136.70): E

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: 114.290 ng

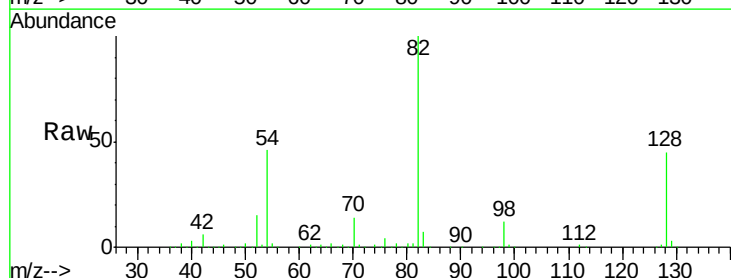
RT: 7.37 min Scan# 898

Delta R.T. -0.00 min

Lab File: BF104365.D

Acq: 9 Apr 2018 12:12

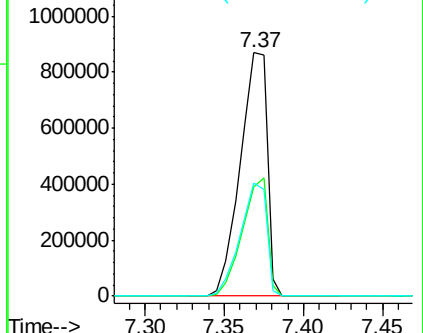
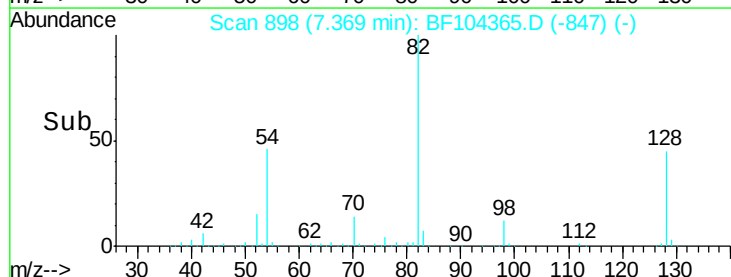
| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 82      | 100  |       | 1020403 |       |       |
| 128     | 45.1 |       | 36.1    | 54.1  |       |
| 54      | 46.4 |       | 41.4    | 62.2  |       |

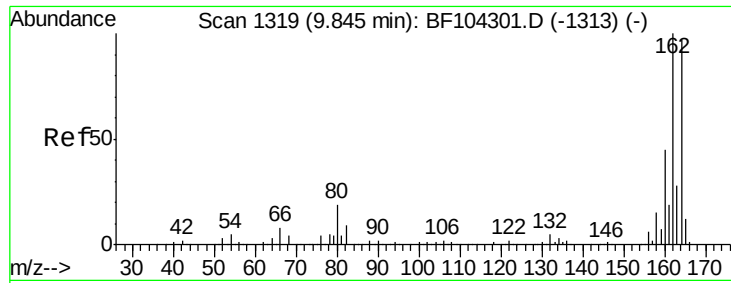


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





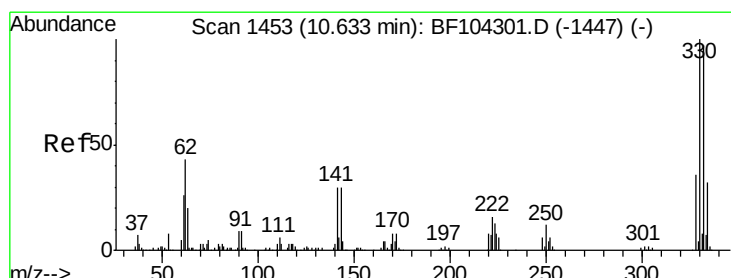
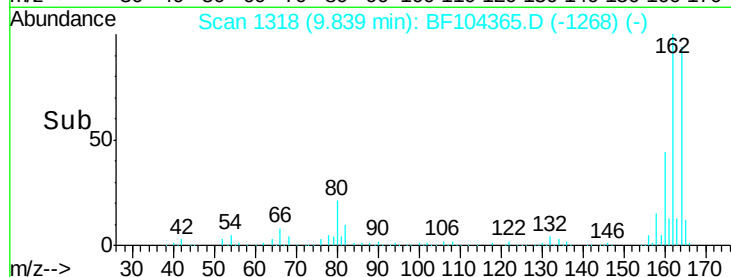
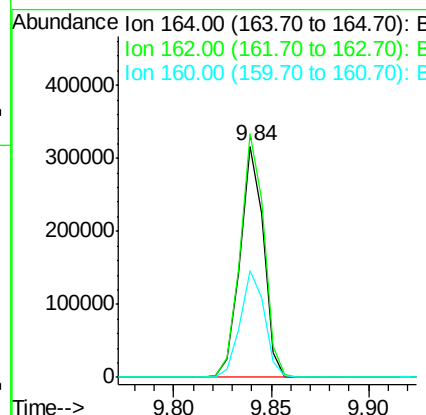
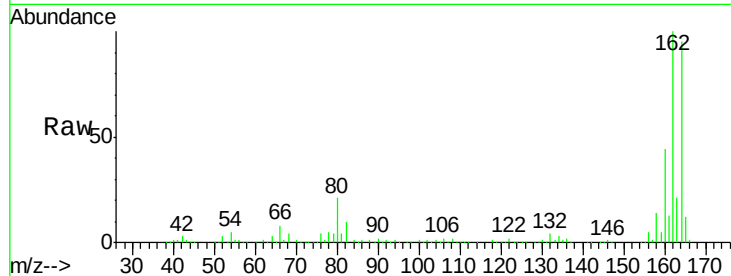
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4C

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 264138 |       |       |
| 162     | 105.5 | 86.1   | 129.1 |       |
| 160     | 46.2  | 38.3   | 57.5  |       |

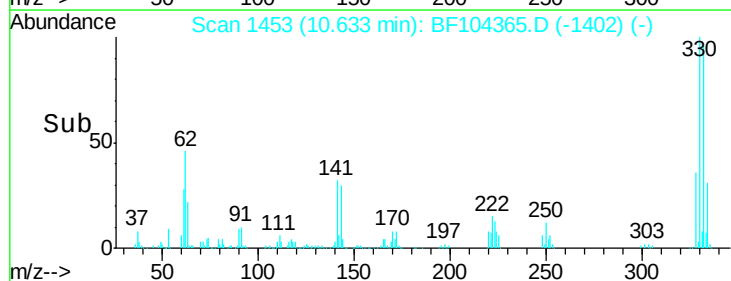
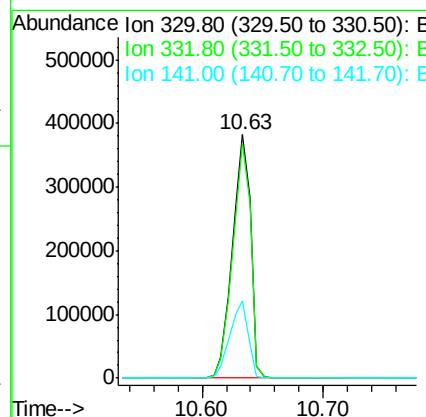
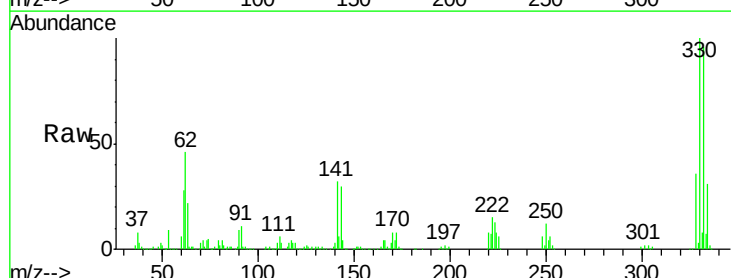
Manual Integrations  
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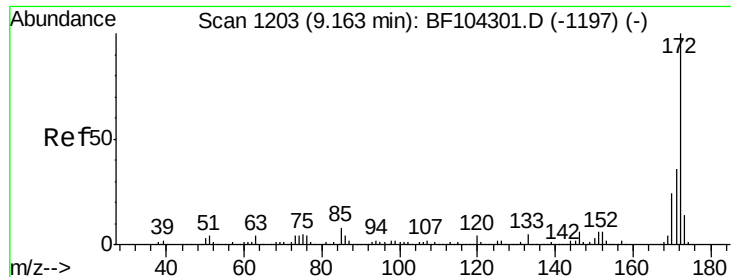
Sohil  
4/10/2018 12:00:10 PM



#41  
2,4,6-Tribromophenol  
Concen: 145.511 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.00 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 398696 |       |       |
| 332     | 95.9  | 77.0   | 115.6 |       |
| 141     | 32.3  | 29.9   | 44.9  |       |





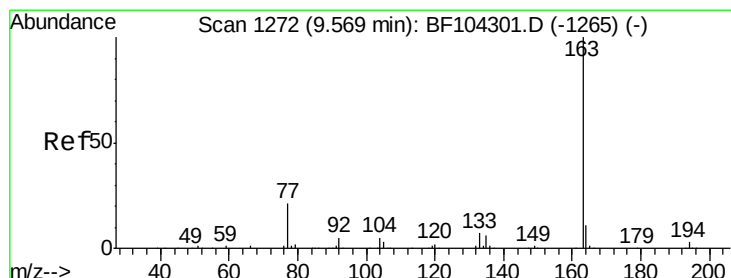
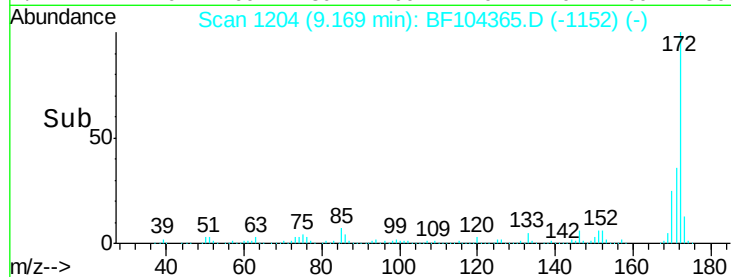
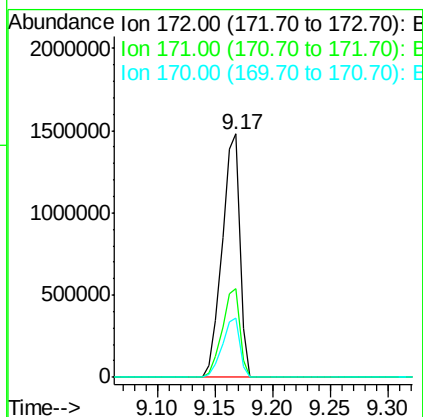
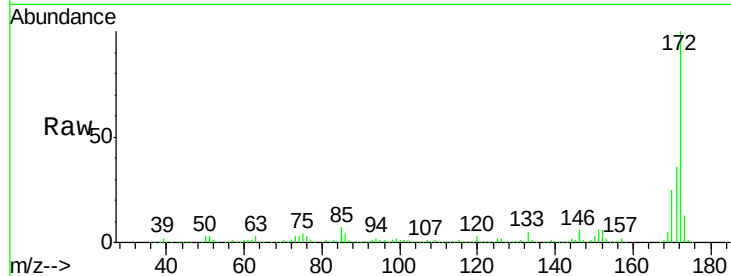
#44  
2-Fluorobiphenyl  
Concen: 94.063 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. 0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.7  | 44.5  |
| 170     | 24.6  | 19.6  | 29.4  |

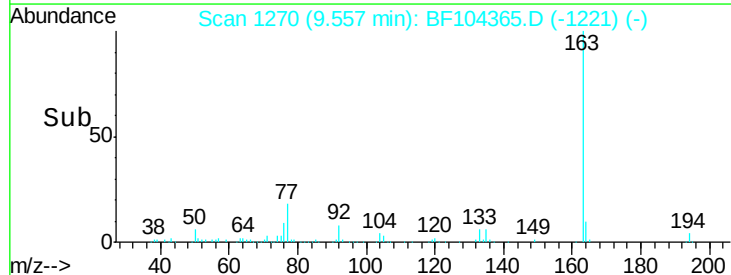
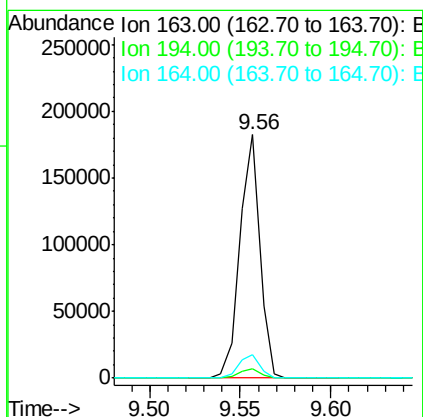
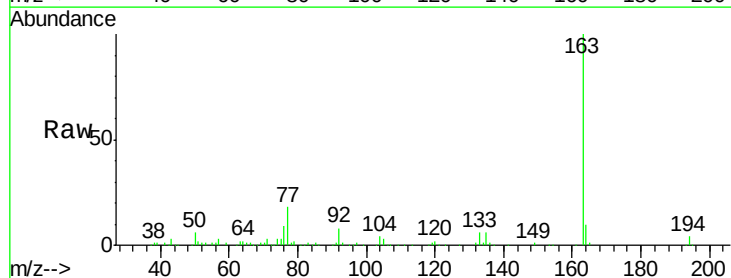
Manual Integrations  
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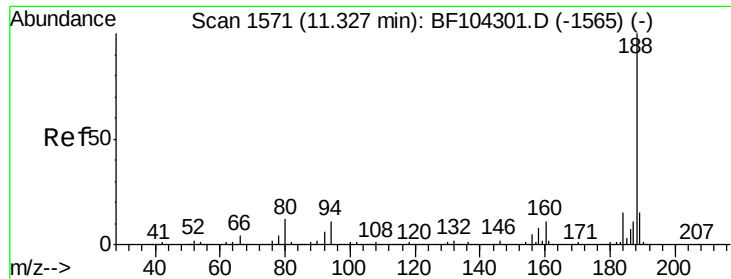
Sohil  
4/10/2018 12:00:10 PM



#49  
Dimethylphthalate  
Concen: 6.729 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 2.7   | 4.1   |
| 164     | 9.7   | 8.2   | 12.2  |





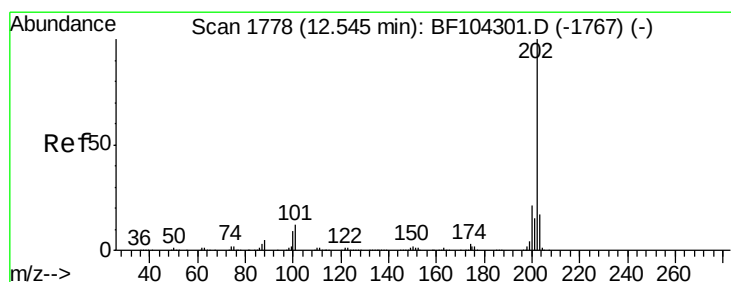
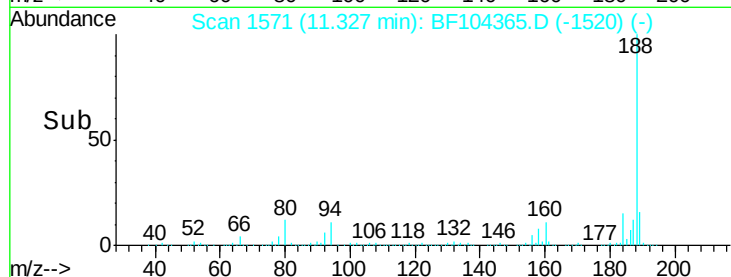
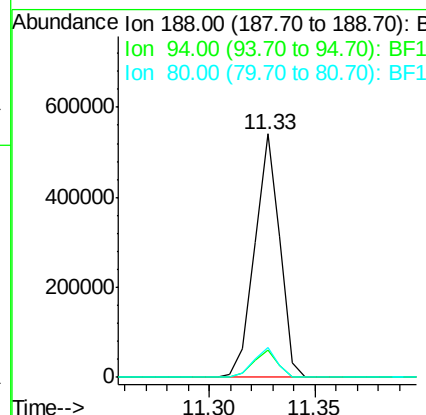
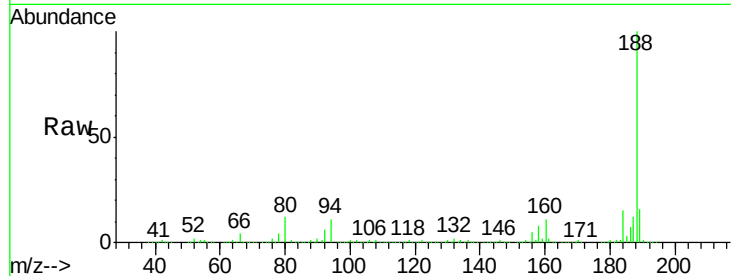
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.00 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4C

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 445022 |       |       |
| 94      | 11.1  |        | 8.5   | 12.7  |
| 80      | 12.1  |        | 9.2   | 13.8  |

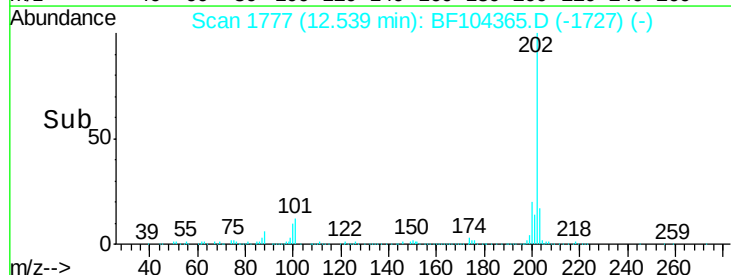
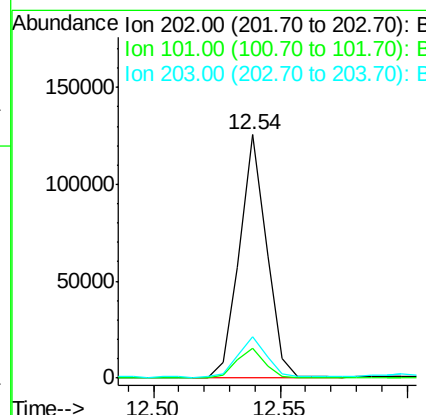
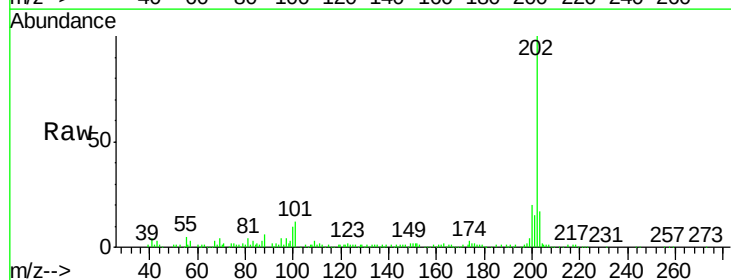
Manual Integrations  
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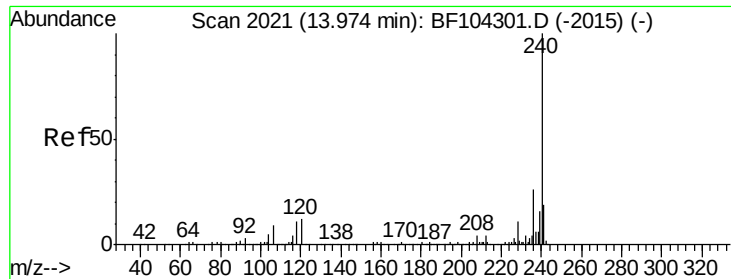


#74  
Fluoranthene  
Concen: 3.642 ng  
RT: 12.54 min Scan# 1777  
Delta R.T. -0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 94303 |       |       |
| 101     | 12.4  |       | 0.0   | 34.1  |
| 203     | 17.1  |       | 0.0   | 38.1  |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF104365.D

Acq: 9 Apr 2018 12:12

Instrument :

BNA\_F

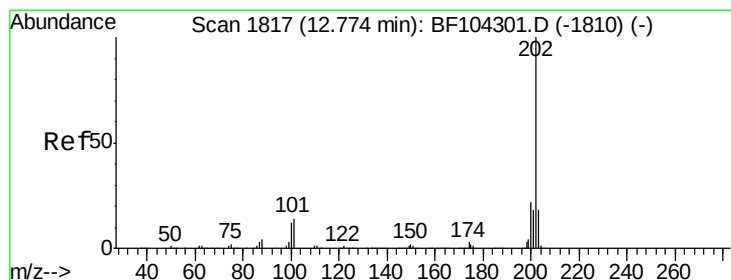
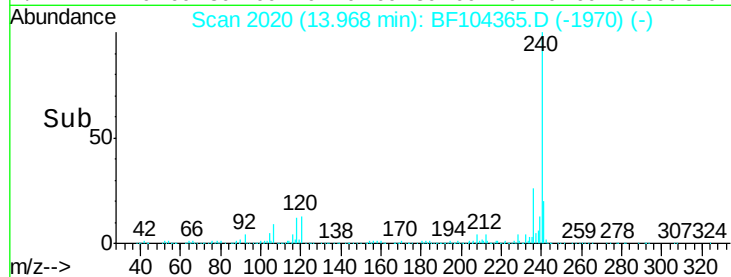
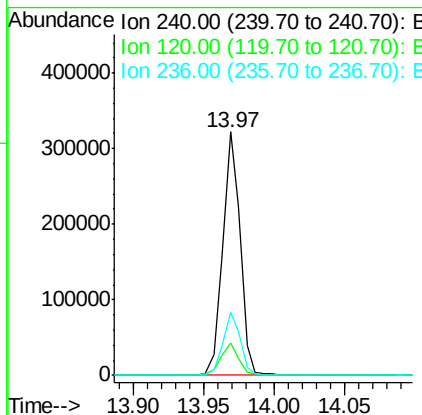
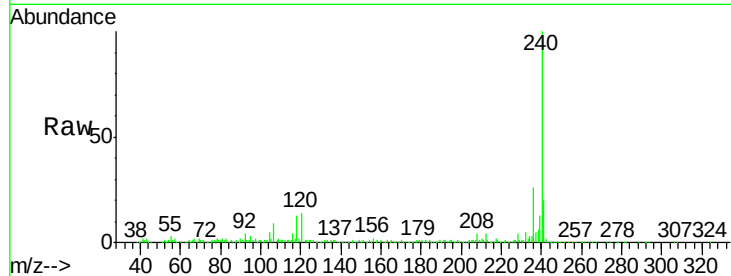
ClientSampleId :

SB-4C

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 240  | Resp: | 276233 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 13.5 | 9.5   | 14.3   |
| 236       | 25.7 | 20.7  | 31.1   |

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#77

Pyrene

Concen: 4.554 ng

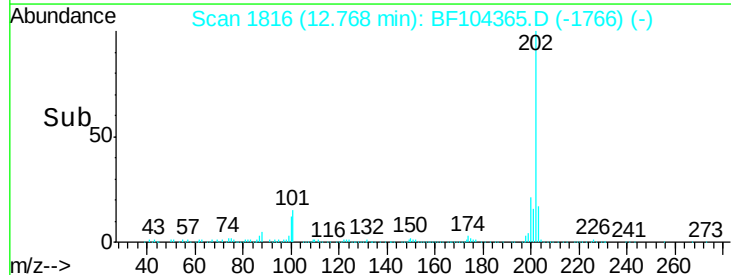
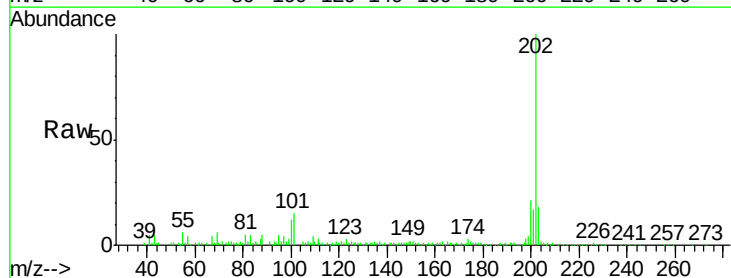
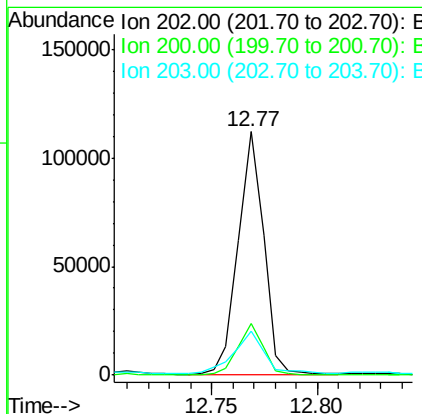
RT: 12.77 min Scan# 1816

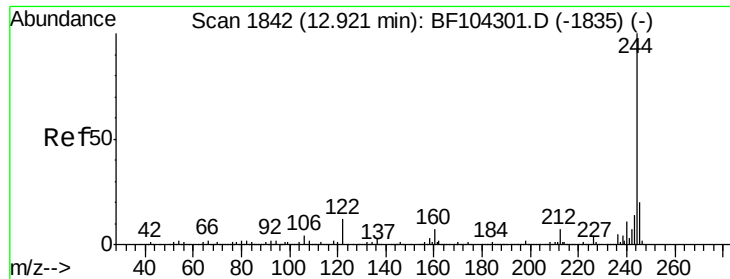
Delta R.T. -0.01 min

Lab File: BF104365.D

Acq: 9 Apr 2018 12:12

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 202  | Resp: | 93242 |
| Ion Ratio |      | Lower | Upper |
| 202       | 100  |       |       |
| 200       | 21.1 | 17.4  | 26.2  |
| 203       | 17.9 | 14.3  | 21.5  |





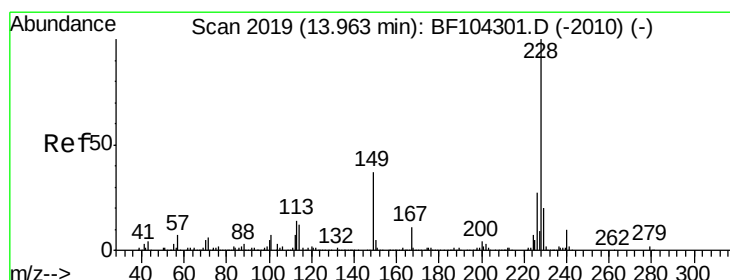
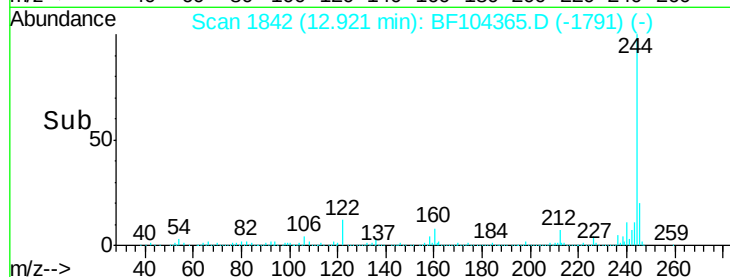
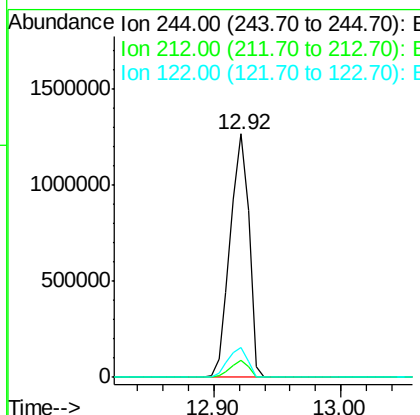
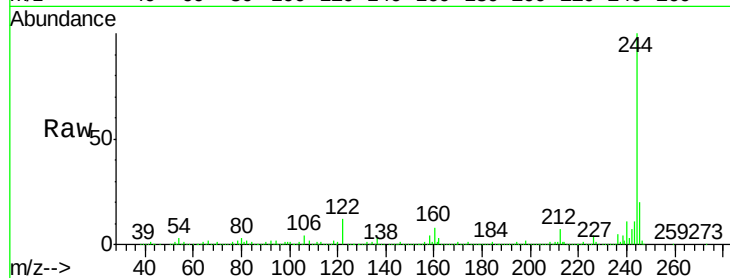
#78  
 Terphenyl-d14  
 Concen: 107.159 ng  
 RT: 12.92 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: BF104365.D  
 Acq: 9 Apr 2018 12:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4C

Tot Ion:244 Resp: 1298381  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.4 8.0  
 122 12.5 11.0 16.4

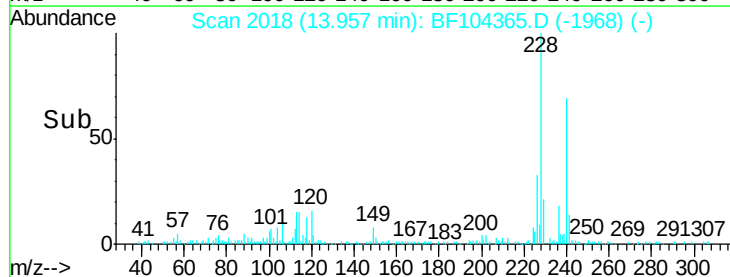
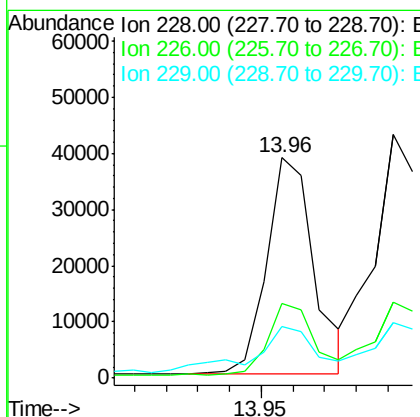
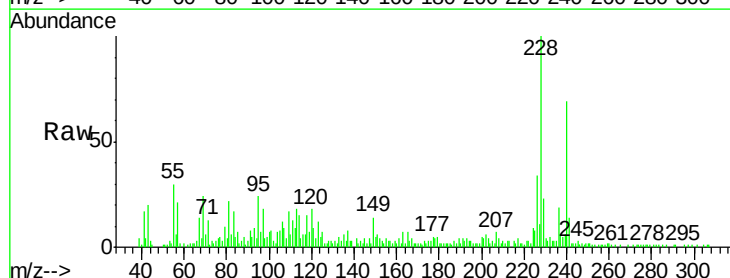
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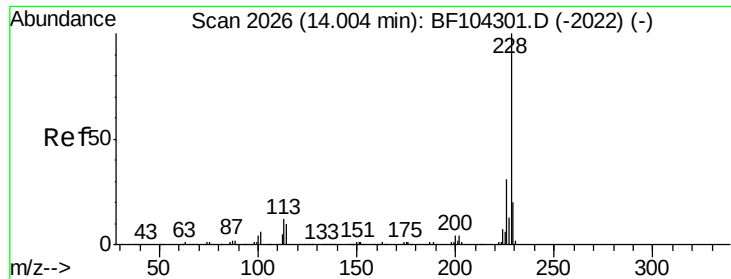
Sohil  
 4/10/2018 12:00:10 PM



#80  
 Benzo(a)anthracene  
 Concen: 2.424 ng  
 RT: 13.96 min Scan# 2018  
 Delta R.T. -0.01 min  
 Lab File: BF104365.D  
 Acq: 9 Apr 2018 12:12

Tgt Ion:228 Resp: 40009  
 Ion Ratio Lower Upper  
 228 100  
 226 33.8 22.6 33.8  
 229 23.2 15.8 23.6





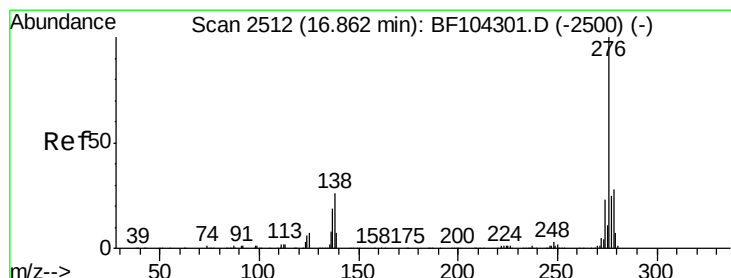
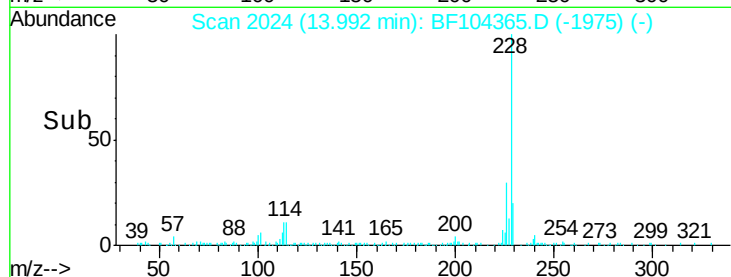
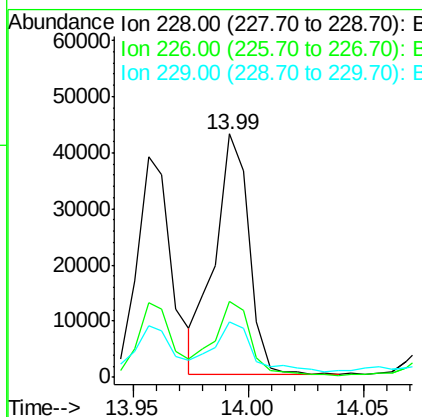
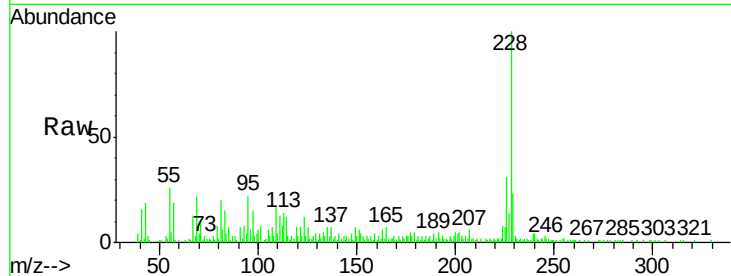
#82  
Chrysene  
Concen: 2.578 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampled :  
SB-4C

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 43705 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 31.0  | 25.0  | 37.6  |
| 229      | 22.6  | 16.2  | 24.4  |

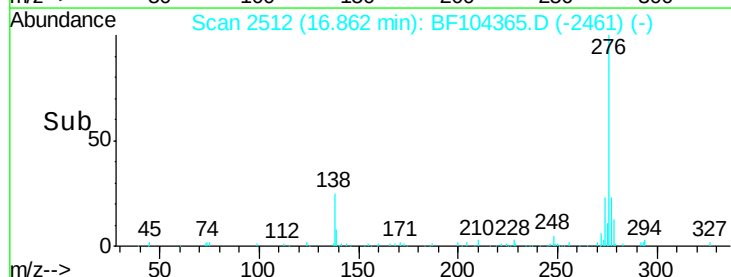
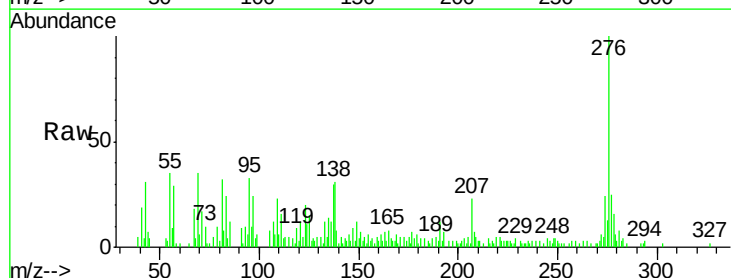
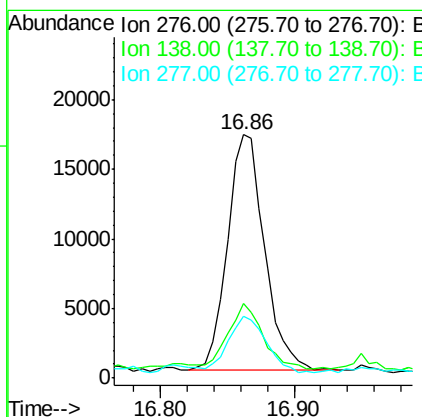
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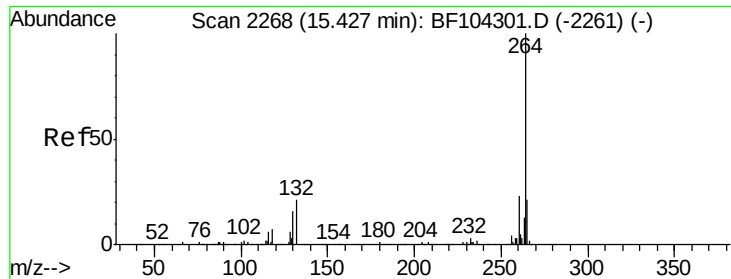
Sohil  
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.277 ng  
RT: 16.86 min Scan# 2512  
Delta R.T. -0.00 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 32791 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 26.3  | 25.0  | 37.6  |
| 277      | 23.6  | 20.1  | 30.1  |





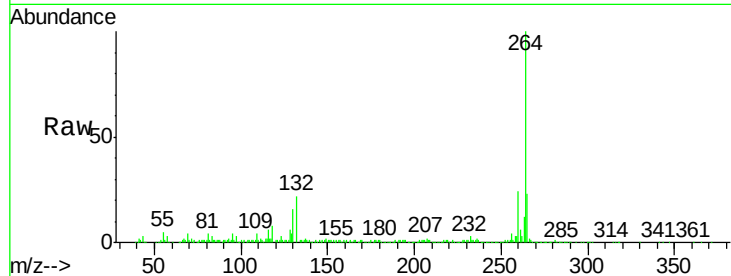
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. 0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4C

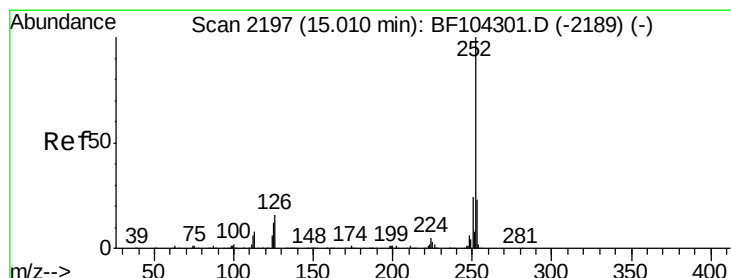
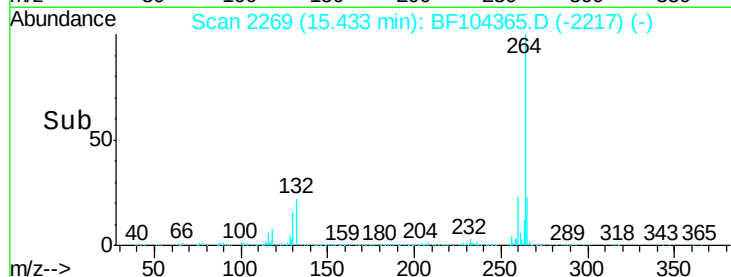
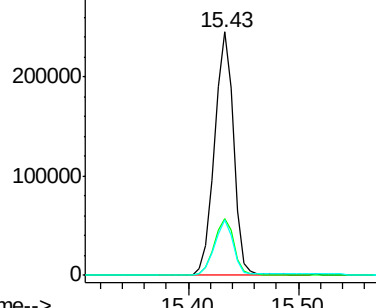
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 22.6  | 17.5  | 26.3  |

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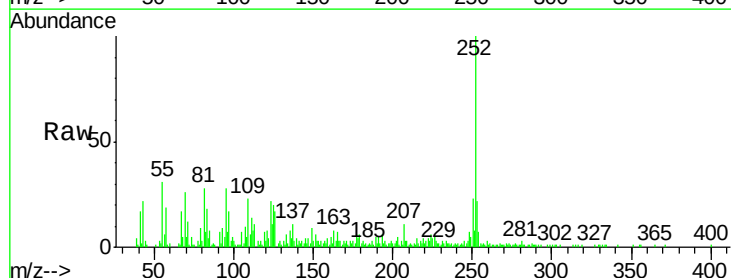


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

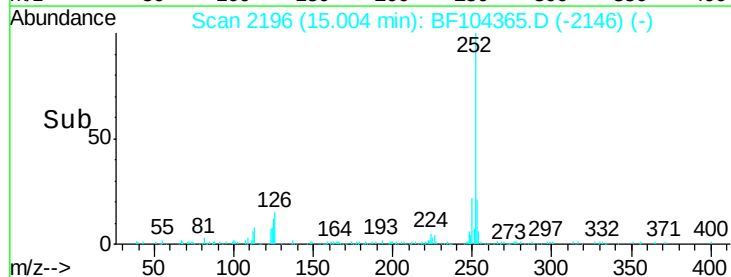
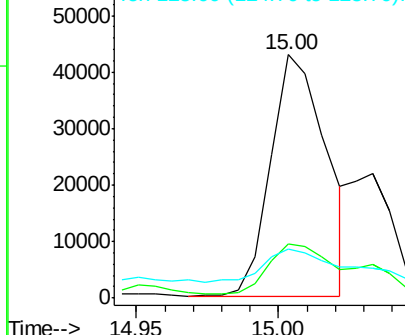


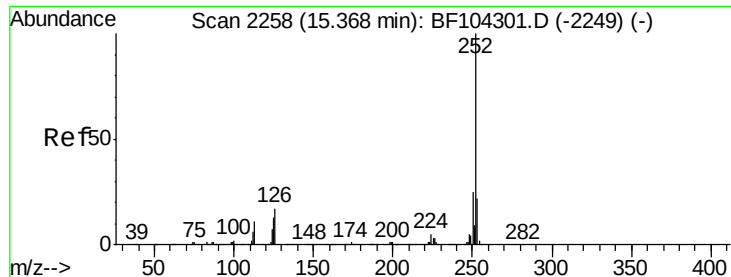
#87  
Benzo(b)fluoranthene  
Concen: 3.057 ng m  
RT: 15.00 min Scan# 2196  
Delta R.T. -0.01 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.0  | 25.6  |
| 125     | 20.0  | 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





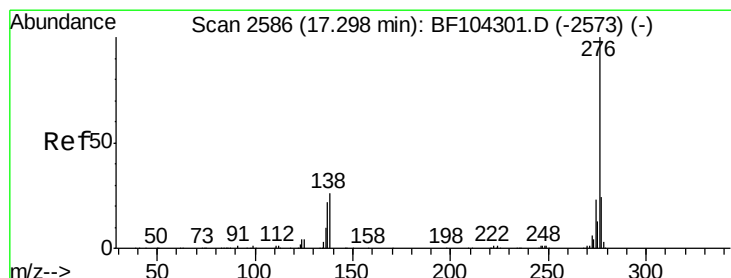
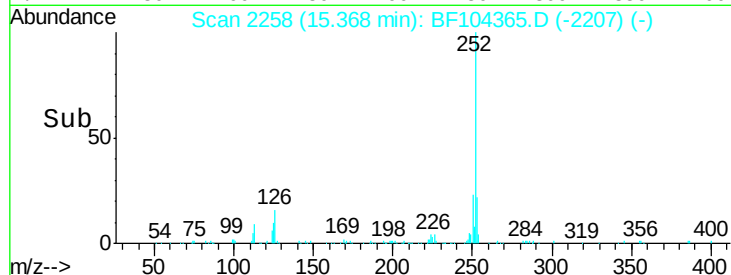
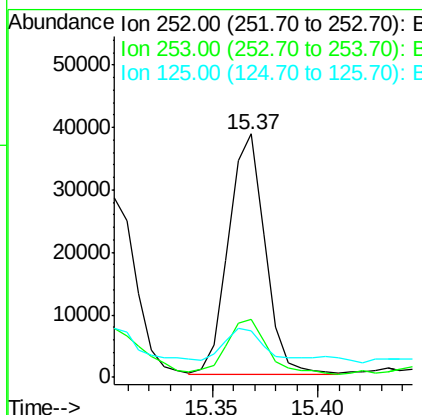
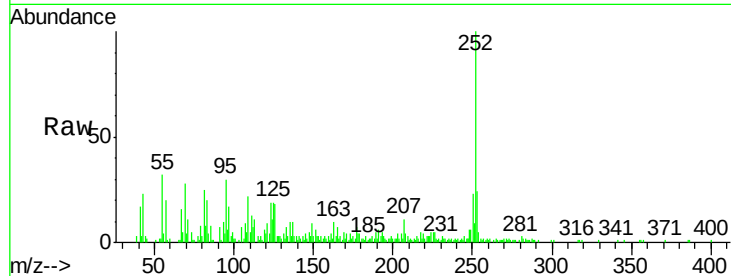
#89  
Benzo(a)pyrene  
Concen: 2.702 ng  
RT: 15.37 min Scan# 2258  
Delta R.T. -0.00 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

Instrument :  
BNA\_F  
ClientSampled :  
SB-4C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.1  | 25.7  |
| 125     | 19.2  | 9.8   | 14.6  |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.470 ng  
RT: 17.30 min Scan# 2586  
Delta R.T. -0.00 min  
Lab File: BF104365.D  
Acq: 9 Apr 2018 12:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.6  | 17.9  | 26.9  |
| 138     | 29.2  | 21.8  | 32.8  |

