

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081718\  
 Data File : BF108240.D  
 Acq On : 17 Aug 2018 13:52  
 Operator : JU/SJ  
 Sample : J4511-09  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RA-081518-FL-031

Manual Integrations  
 APPROVED

Sohil  
 8/20/2018 12:48:24 PM

Quant Time: Aug 17 15:02:12 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.01  | 152  | 147580   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.30  | 136  | 563076   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.06 | 164  | 282668   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.55 | 188  | 518920   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.21 | 240  | 417495   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.78 | 264  | 417629   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.64  | 112  | 789081   | 96.80  | ng    | 0.00     |
| 7) Phenol-d6                | 6.63  | 99   | 1053451  | 97.25  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.58  | 82   | 700872   | 69.46  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.85 | 330  | 297903   | 105.66 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.37  | 172  | 1293683  | 73.48  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.14 | 244  | 1190632  | 72.51  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.64  | 94   | 26327    | 2.350  | ng    | 82       |
| 49) Dimethylphthalate       | 9.76  | 163  | 161846   | 8.220  | ng    | # 99     |
| 70) Phenanthrene            | 11.58 | 178  | 59955    | 2.450  | ng    | 100      |
| 74) Fluoranthene            | 12.78 | 202  | 80795    | 3.025  | ng    | 95       |
| 77) Pyrene                  | 13.01 | 202  | 78767    | 2.980  | ng    | 97       |
| 82) Chrysene                | 14.24 | 228  | 48137    | 2.191  | ng    | # 93     |
| 87) Benzo(b)fluoranthene    | 15.30 | 252  | 70446m   | 2.823  | ng    |          |
| 89) Benzo(a)pyrene          | 15.70 | 252  | 50723    | 2.270  | ng    | # 90     |
| 91) Benzo(g,h,i)perylene    | 17.88 | 276  | 40636    | 2.232  | ng    | # 91     |

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

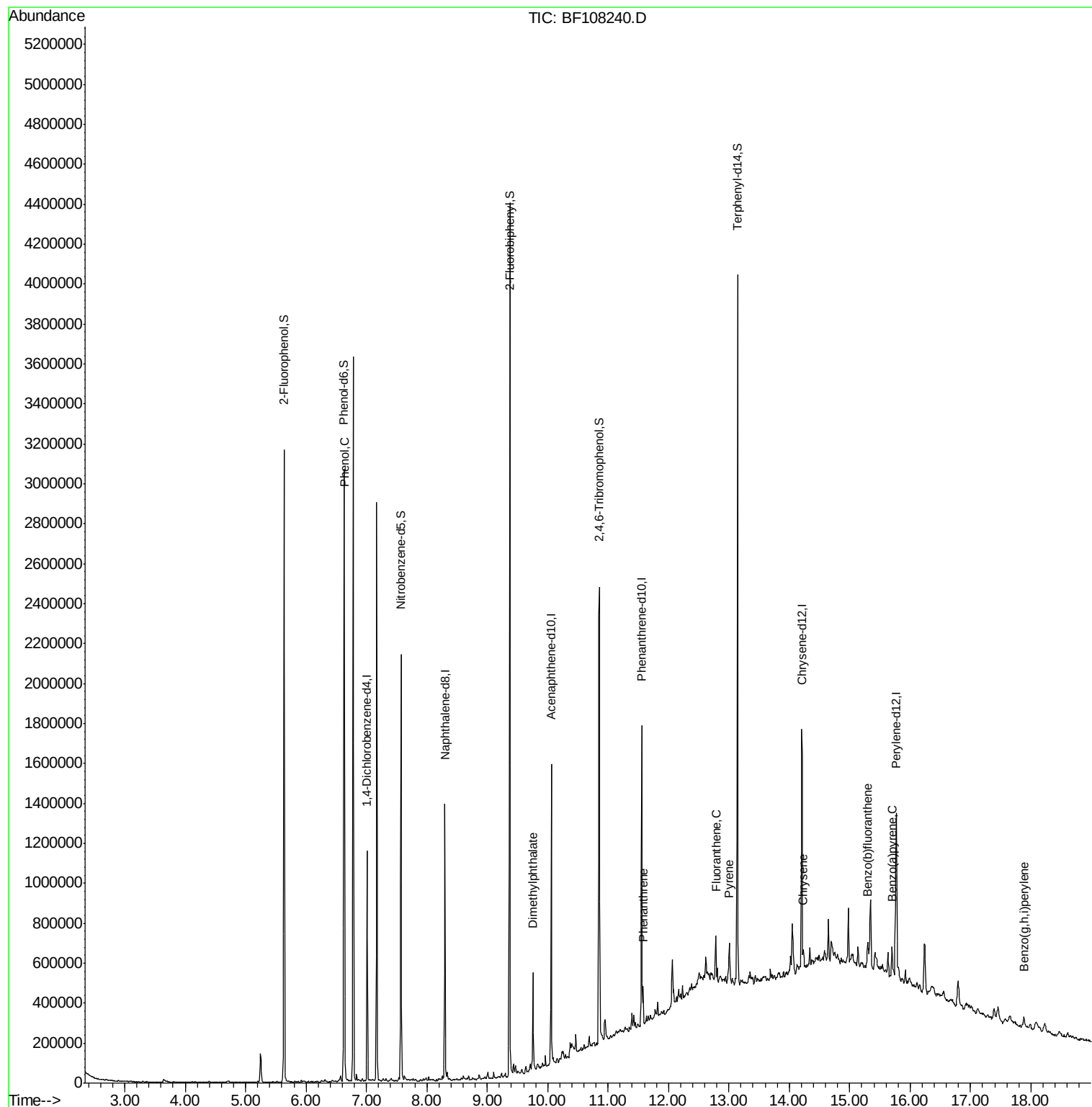
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081718\  
Data File : BF108240.D  
Acq On : 17 Aug 2018 13:52  
Operator : JU/SJ  
Sample : J4511-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

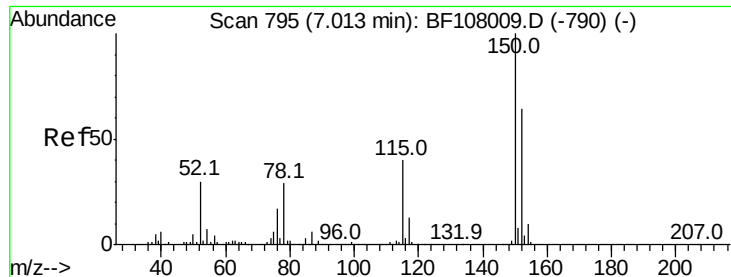
Instrument :  
BNA\_F  
ClientSampleId :  
RA-081518-FL-031

Manual Integrations  
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Quant Time: Aug 17 15:02:12 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 08 12:24:24 2018  
Response via : Initial Calibration





#1

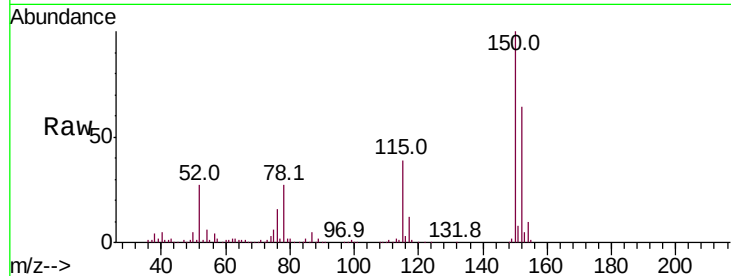
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.01 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

Instrument :  
BNA\_F  
ClientSampleId :  
RA-081518-FL-031

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 124.6 | 186.8 |
| 115     | 60.7  | 50.1  | 75.1  |

Manual Integrations  
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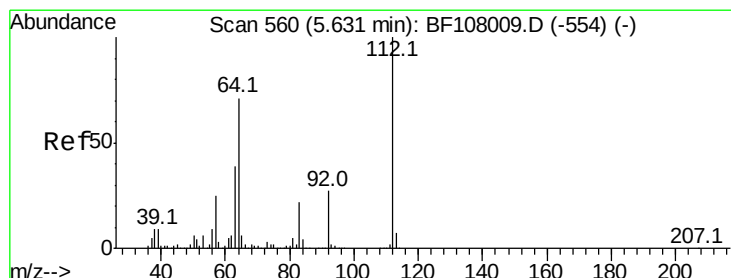
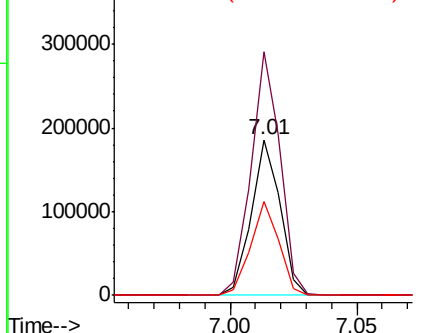
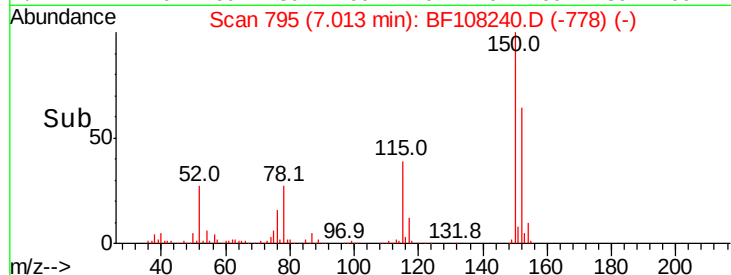


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

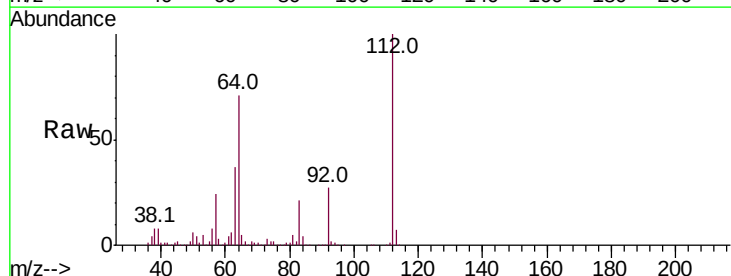
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 96.801 ng  
RT: 5.64 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.9  | 47.9  | 71.9  |
| 63      | 37.3  | 23.7  | 35.5  |

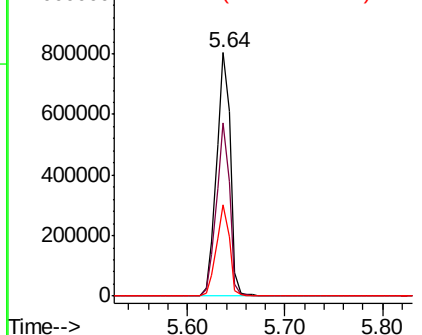
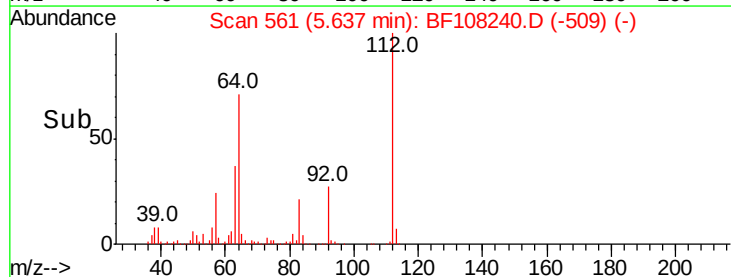


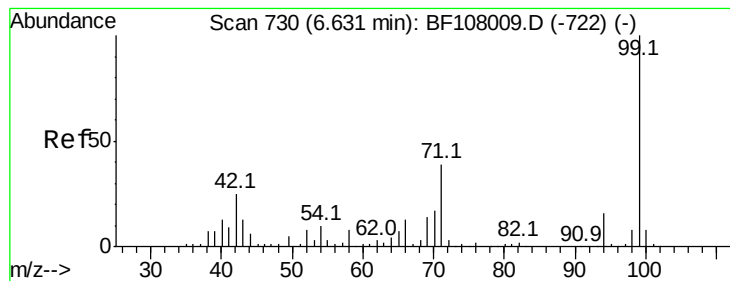
Abundance

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: 97.251 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

Instrument :

BNA\_F

ClientSampleId :

RA-081518-FL-031

Tot Ion: 99 Resp: 1053451

Ion Ratio Lower Upper

99 100

42 23.8 14.5 21.7#

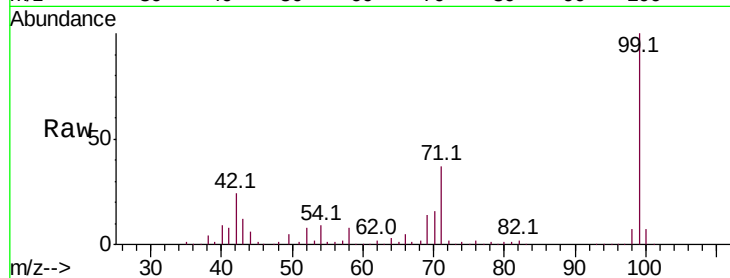
71 37.3 25.4 38.0

Manual Integrations

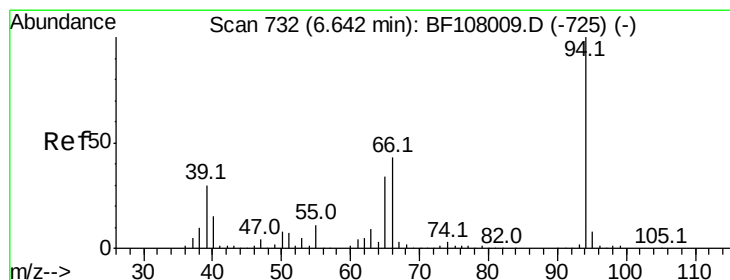
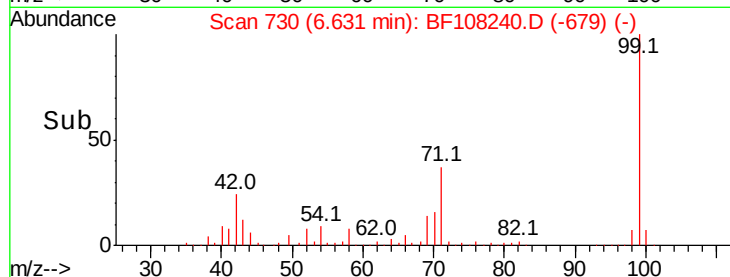
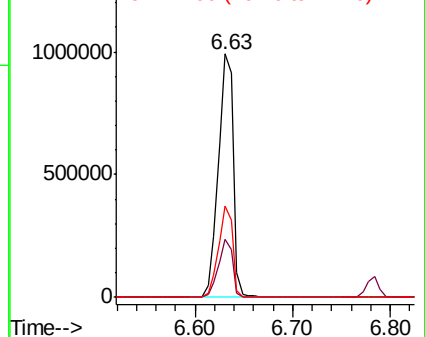
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.350 ng

RT: 6.64 min Scan# 732

Delta R.T. 0.00 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

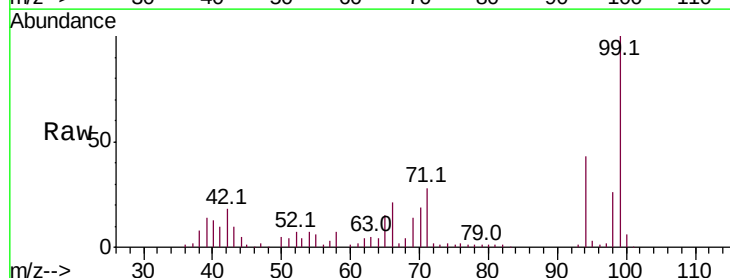
Tgt Ion: 94 Resp: 26327

Ion Ratio Lower Upper

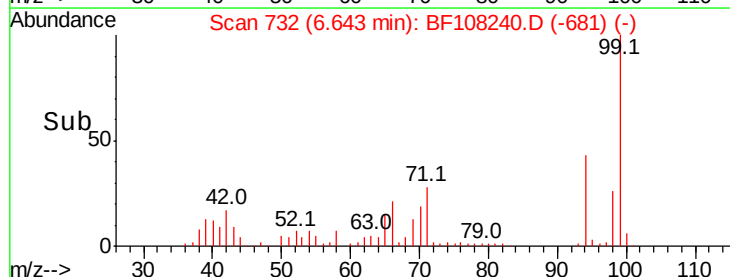
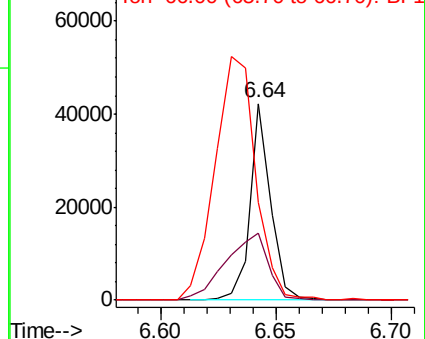
94 100

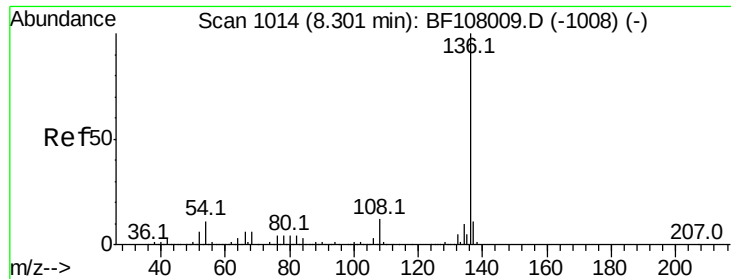
65 33.9 7.9 47.9

66 50.0 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





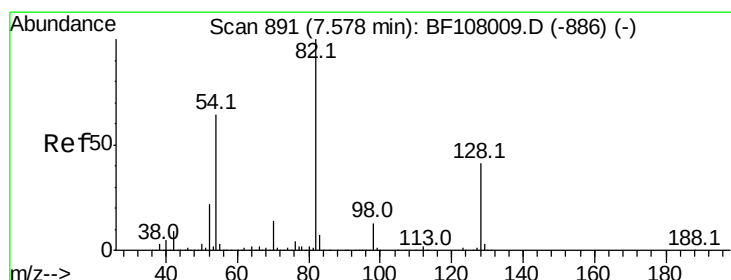
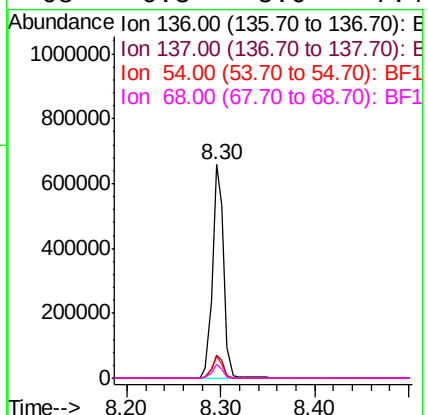
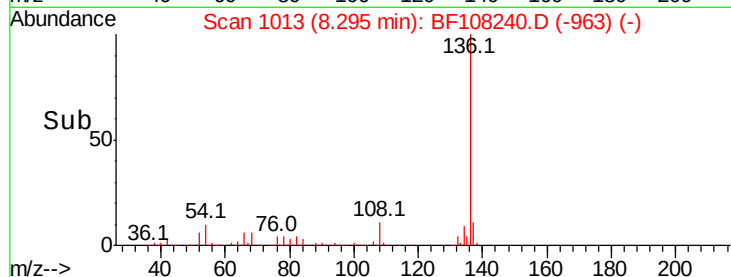
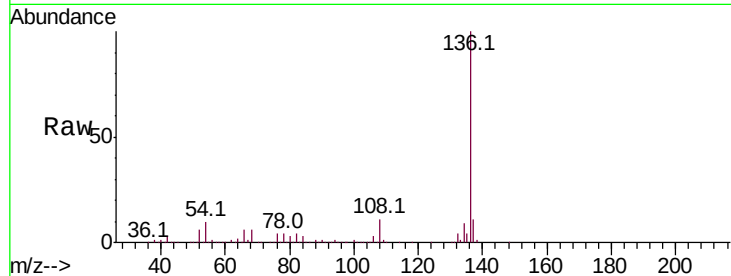
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.30 min Scan# 1013  
Delta R.T. -0.01 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

Instrument :  
BNA\_F  
ClientSampleId :  
RA-081518-FL-031

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.9  | 8.9  | 13.3  |       |
| 54      | 10.1  | 6.6  | 9.8   |       |
| 68      | 6.3   | 5.0  | 7.4   |       |

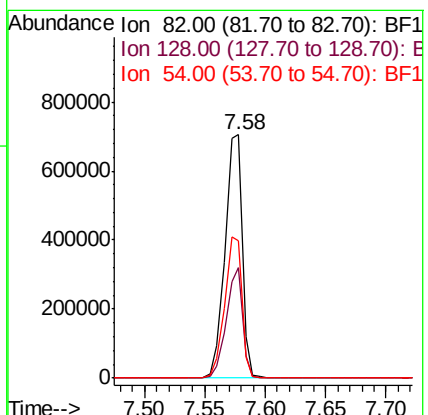
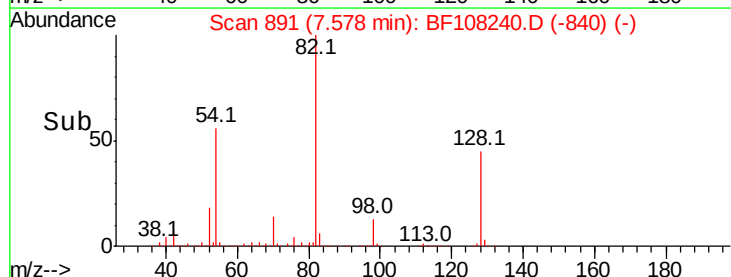
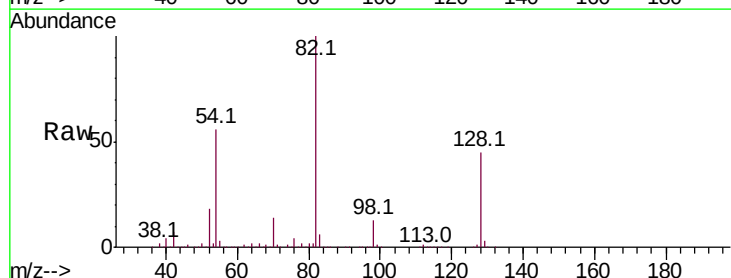
Manual Integrations  
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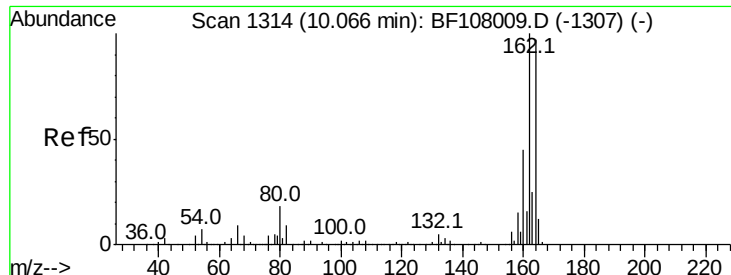
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#23  
Nitrobenzene-d5  
Concen: 69.457 ng  
RT: 7.58 min Scan# 891  
Delta R.T. 0.00 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 45.4  | 36.1 | 54.1  |       |
| 54      | 56.4  | 41.4 | 62.2  |       |





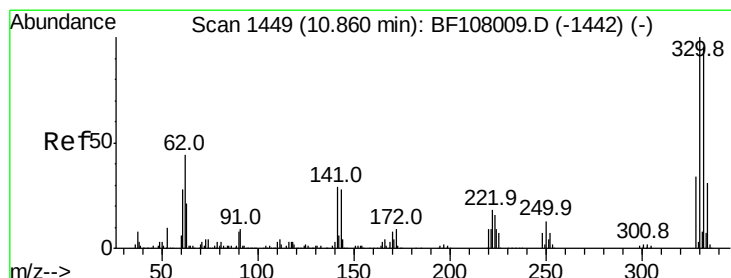
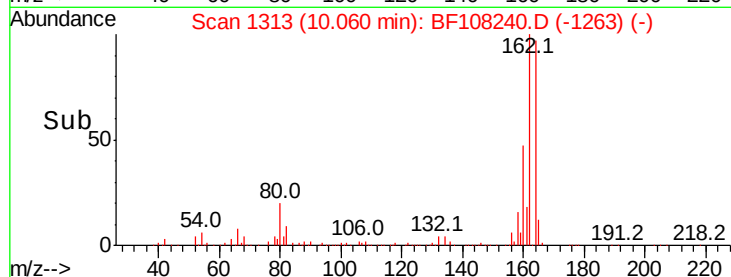
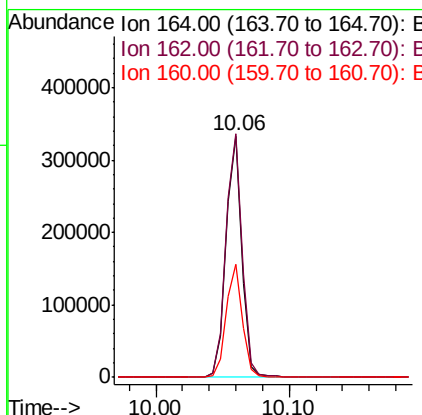
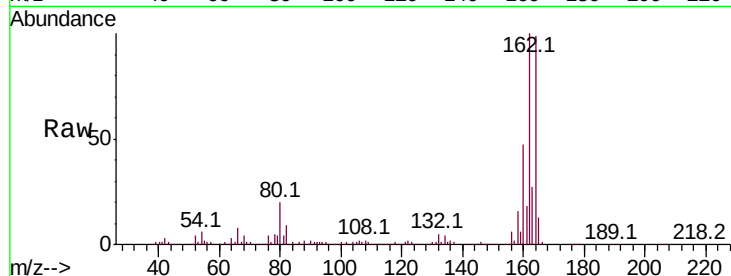
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

Instrument :  
BNA\_F  
ClientSampleId :  
RA-081518-FL-031

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 86.1  | 129.1 |
| 160     | 47.0  | 38.3  | 57.5  |

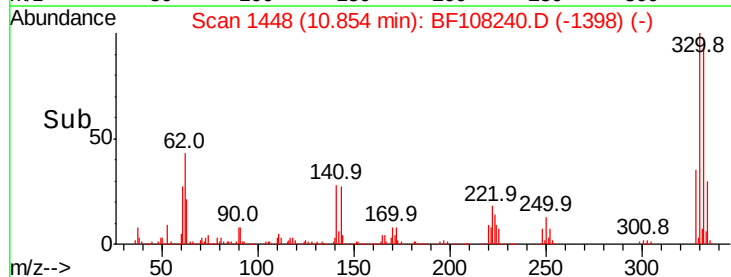
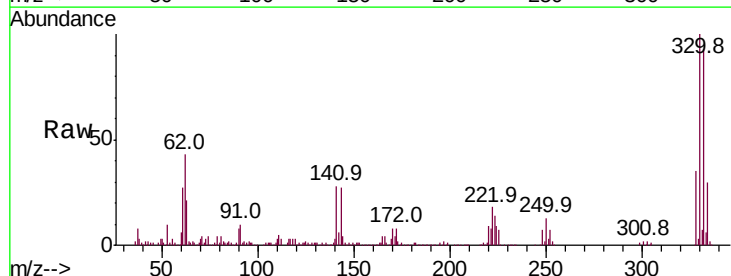
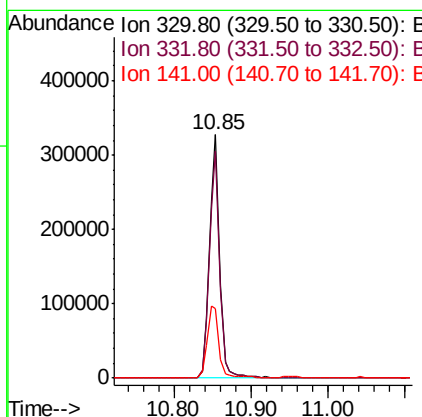
Manual Integrations  
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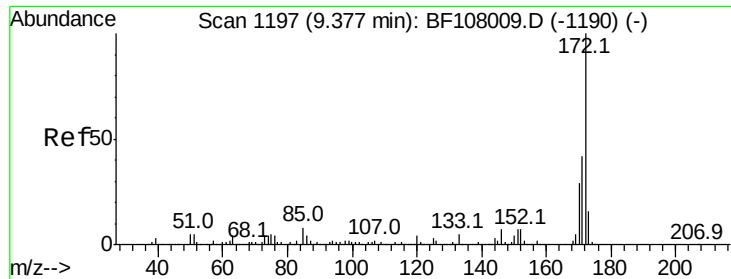
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#41  
2,4,6-Tribromophenol  
Concen: 105.657 ng  
RT: 10.85 min Scan# 1448  
Delta R.T. -0.01 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.5  | 77.0  | 115.6 |
| 141     | 33.5  | 29.9  | 44.9  |





#44

2-Fluorobiphenyl

Concen: 73.477 ng

RT: 9.37 min Scan# 1196

Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

Instrument :

BNA\_F

ClientSampleId :

RA-081518-FL-031

Tot Ion:172 Resp: 1293683

Ion Ratio Lower Upper

172 100

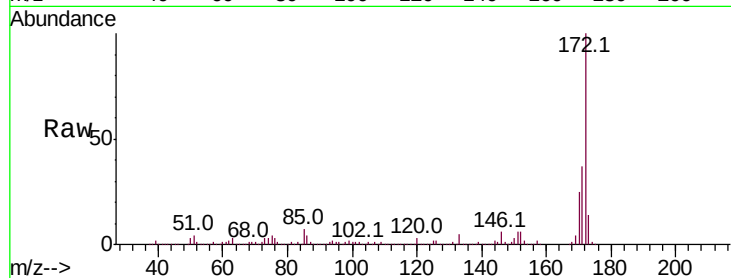
171 36.9 29.7 44.5

170 24.7 19.6 29.4

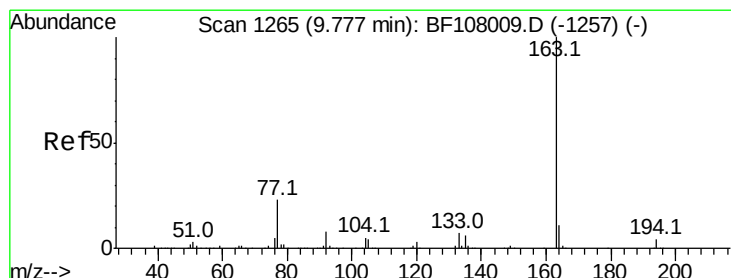
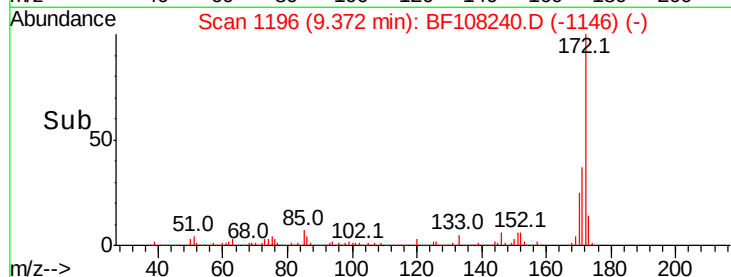
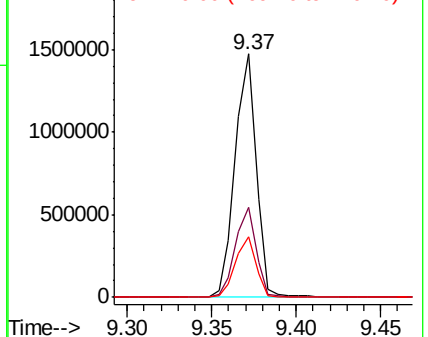
Manual Integrations  
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Abundance Ion 172.00 (171.70 to 172.70): E  
2000000 Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 8.220 ng

RT: 9.76 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

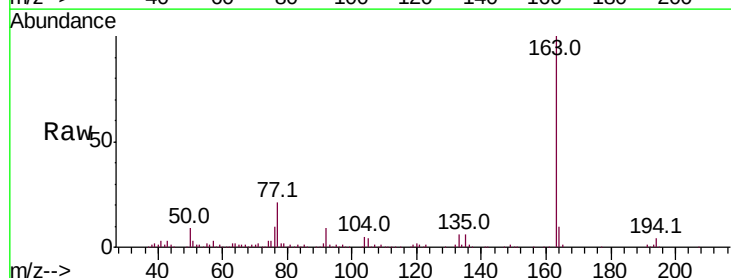
Tgt Ion:163 Resp: 161846

Ion Ratio Lower Upper

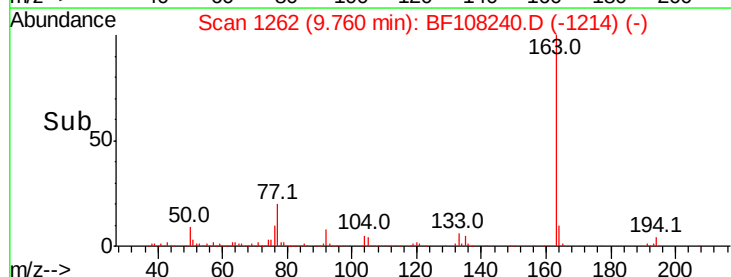
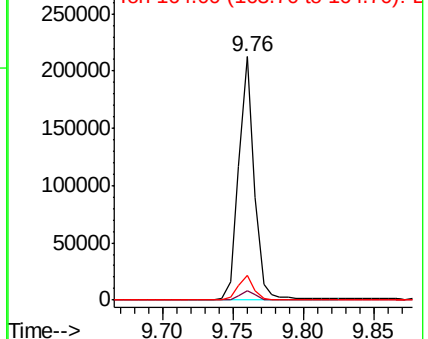
163 100

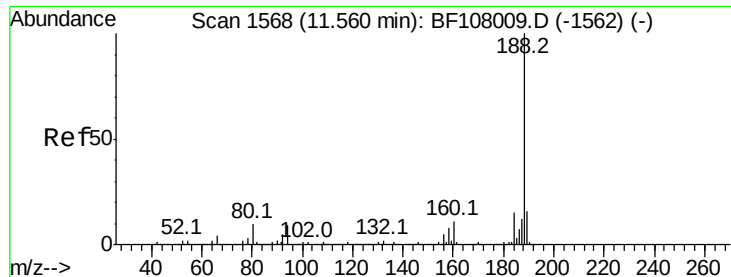
194 4.1 2.7 4.1#

164 10.2 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E  
250000 Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





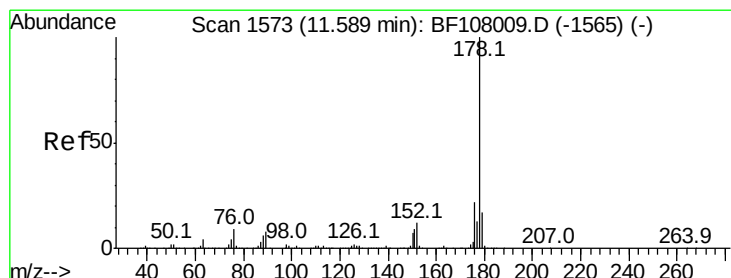
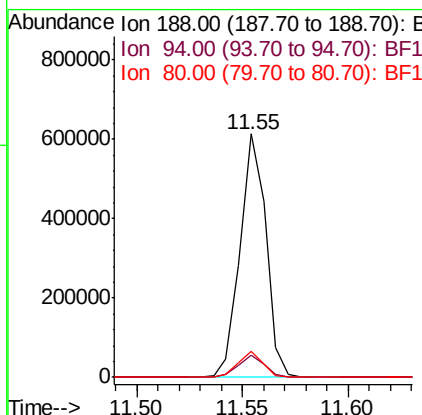
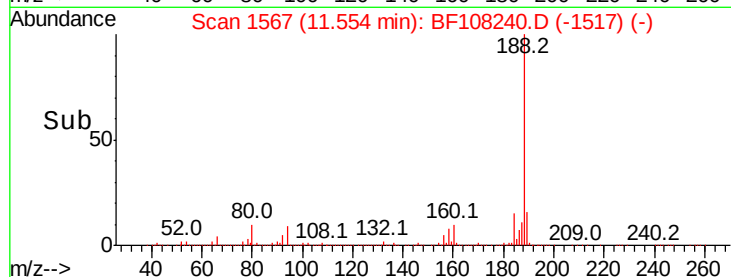
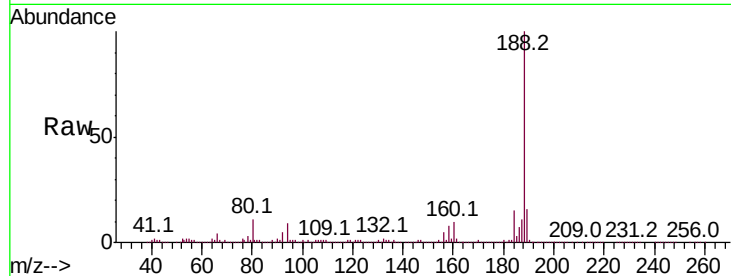
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.55 min Scan# 1567  
Delta R.T. -0.01 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

Instrument :  
BNA\_F  
ClientSampleId :  
RA-081518-FL-031

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.0   | 8.5        | 12.7  |
| 80      | 10.5  | 9.2        | 13.8  |

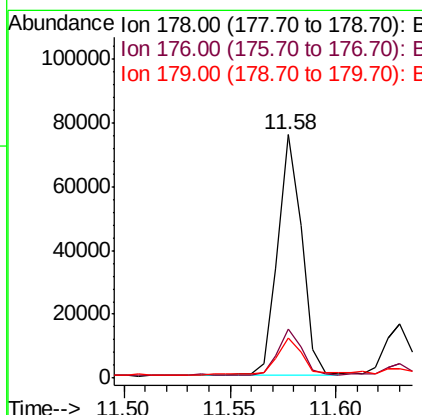
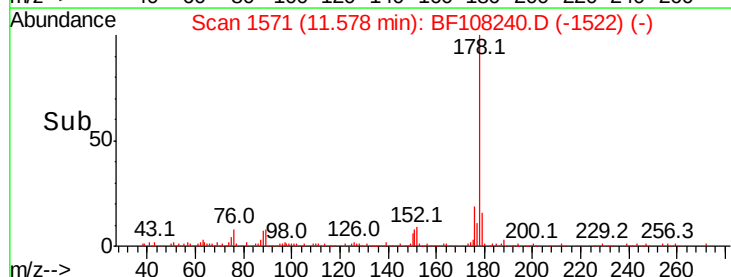
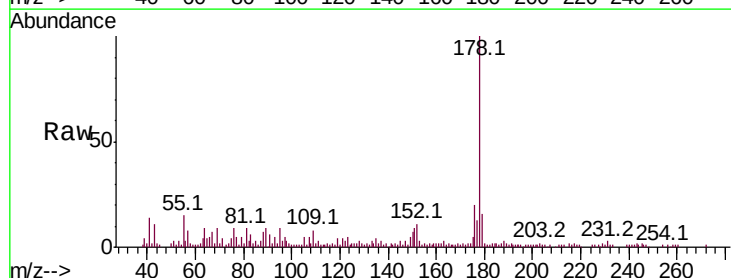
Manual Integrations  
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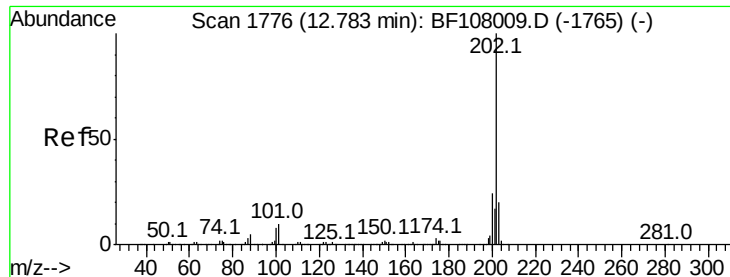


#70  
Phenanthrene  
Concen: 2.450 ng  
RT: 11.58 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BF108240.D  
Acq: 17 Aug 2018 13:52

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 20.0  | 15.8       | 23.8  |
| 179     | 16.3  | 13.0       | 19.6  |







#74

Fluoranthene

Concen: 3.025 ng

RT: 12.78 min Scan# 1776

Delta R.T. 0.00 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

Instrument :

BNA\_F

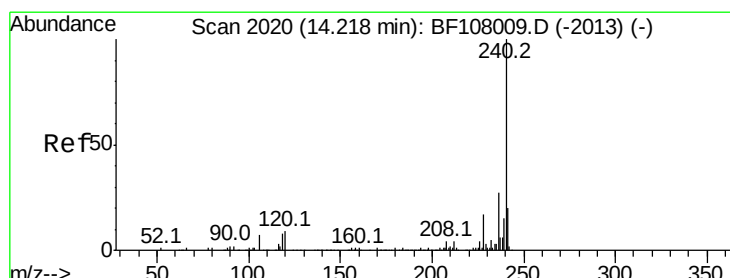
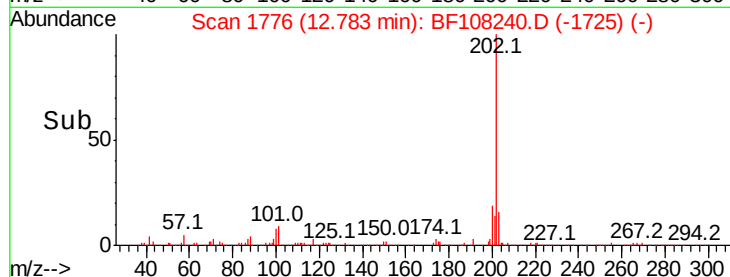
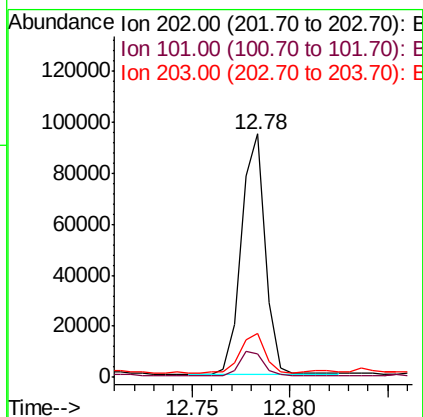
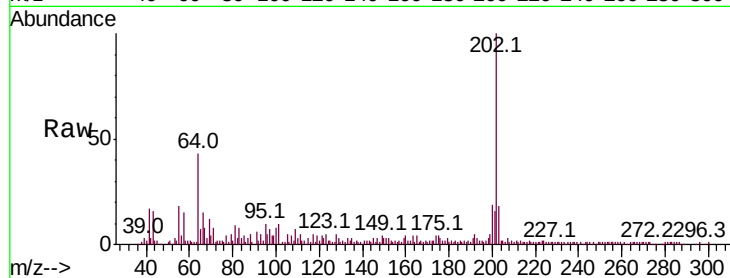
ClientSampleId :

RA-081518-FL-031

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 80795 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.6   | 0.0   | 34.1  |
| 203       | 17.8  | 0.0   | 38.1  |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

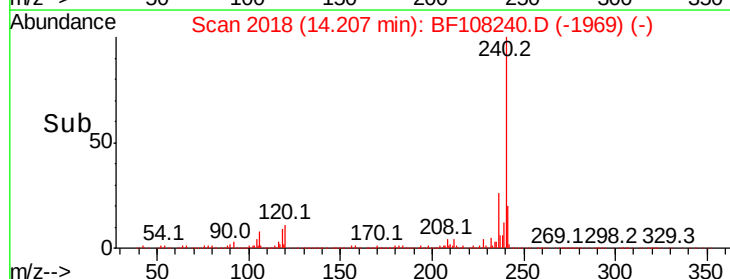
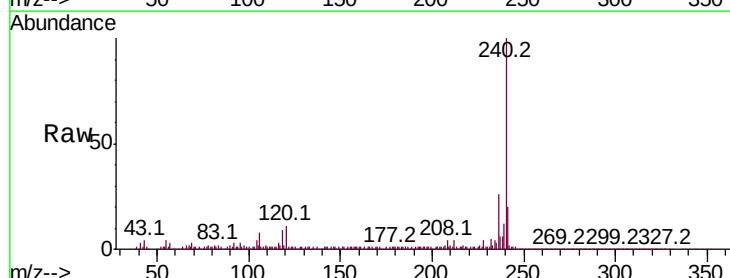
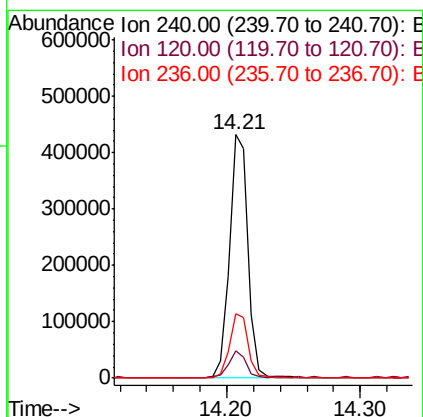
RT: 14.21 min Scan# 2018

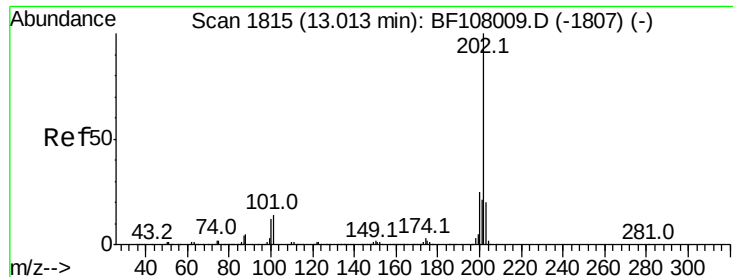
Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 417495 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.2  | 9.5   | 14.3   |
| 236       | 26.4  | 20.7  | 31.1   |





#77

Pvrene

Concen: 2.980 ng

RT: 13.01 min Scan# 1814

Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

Instrument :

BNA\_F

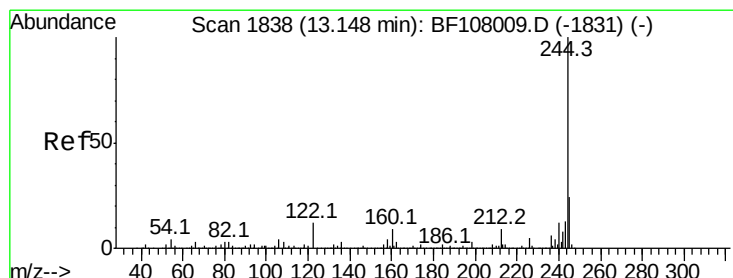
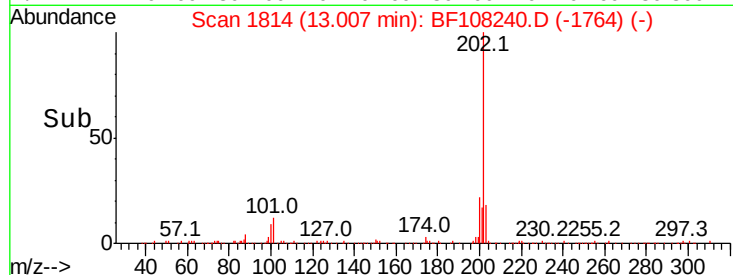
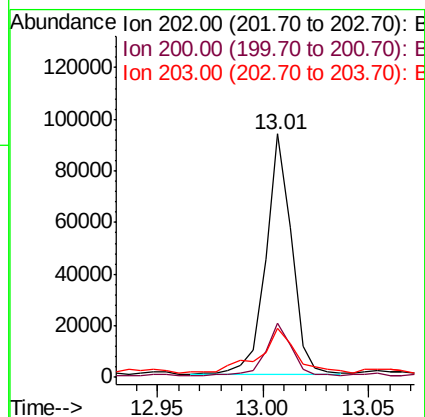
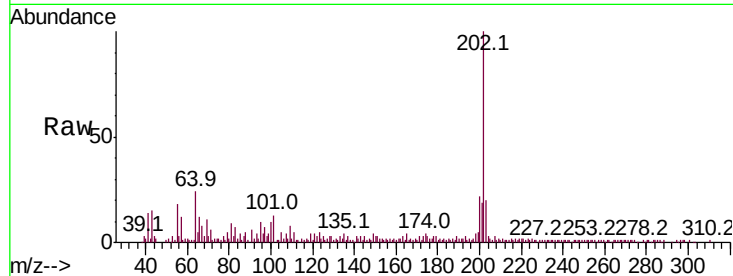
ClientSampleId :

RA-081518-FL-031

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 78767 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 22.3  | 17.4  | 26.2  |
| 203       | 20.2  | 14.3  | 21.5  |

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#78

Terphenyl-d14

Concen: 72.510 ng

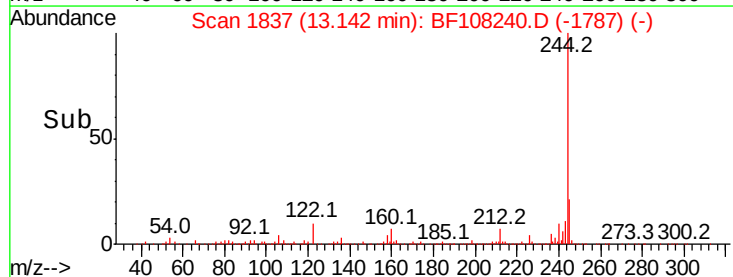
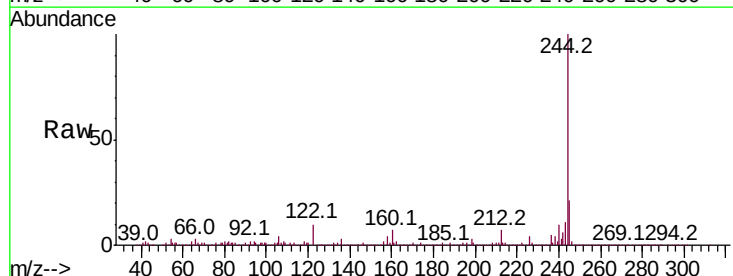
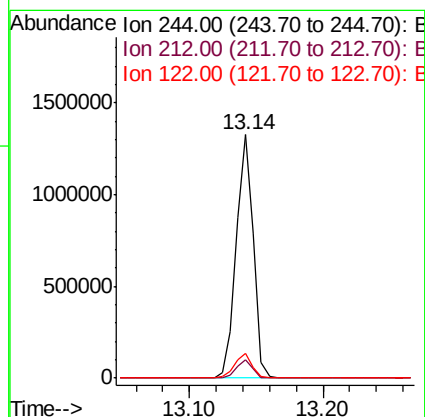
RT: 13.14 min Scan# 1837

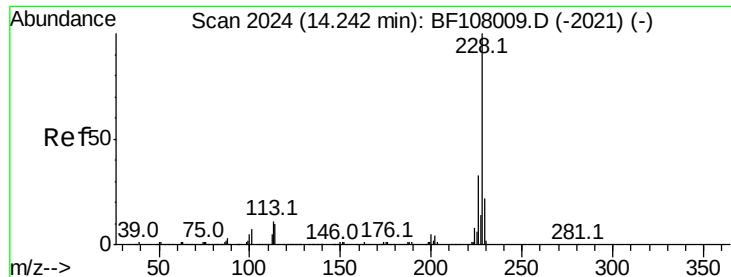
Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1190632 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.3   | 5.4   | 8.0     |
| 122       | 10.1  | 11.0  | 16.4#   |





#82

Chrysene

Concen: 2.191 ng

RT: 14.24 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

Instrument :

BNA\_F

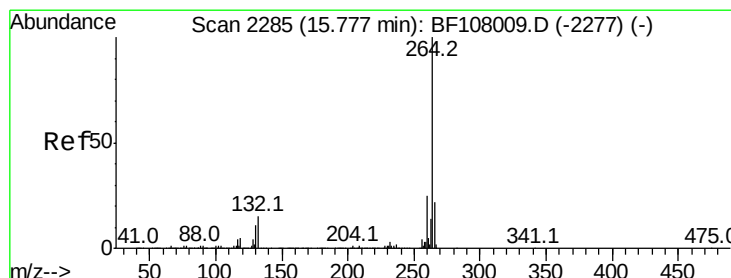
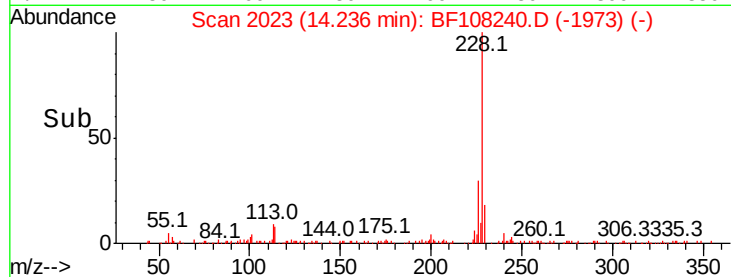
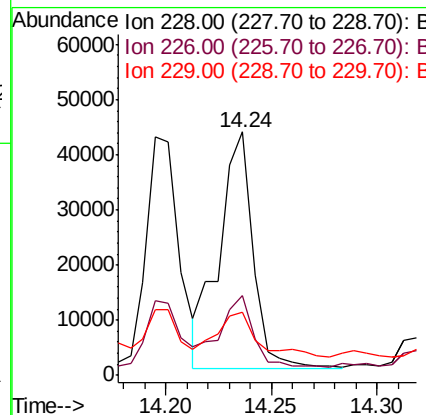
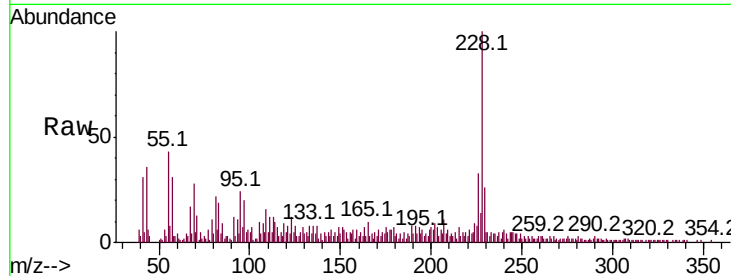
ClientSampleId :

RA-081518-FL-031

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 48137 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 32.9  | 25.0  | 37.6  |
| 229       | 26.0  | 16.2  | 24.4  |

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#86

Perylene-d12

Concen: 20.000 ng

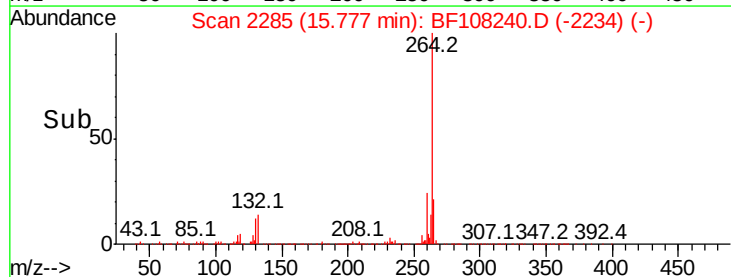
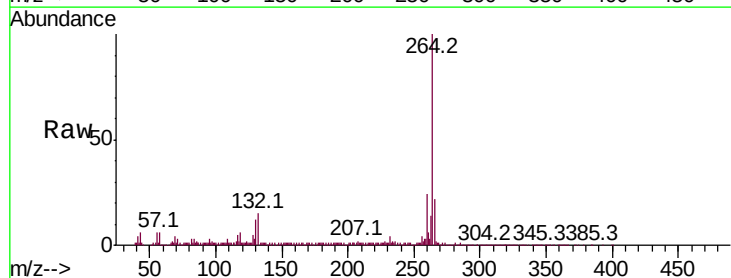
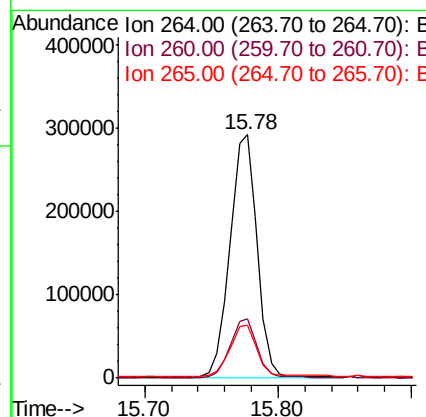
RT: 15.78 min Scan# 2285

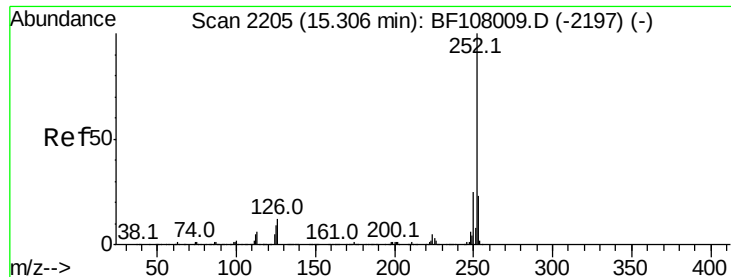
Delta R.T. 0.00 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 417629 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.4  | 19.2  | 28.8   |
| 265       | 21.8  | 17.5  | 26.3   |





#87

Benzo(b)fluoranthene

Concen: 2.823 ng m

RT: 15.30 min Scan# 2204

Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

Instrument :

BNA\_F

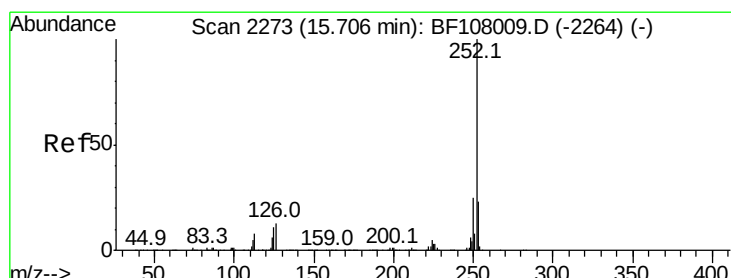
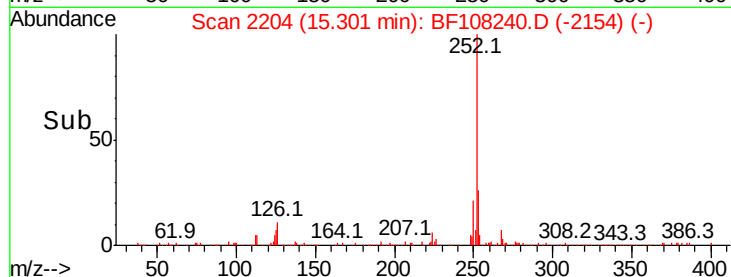
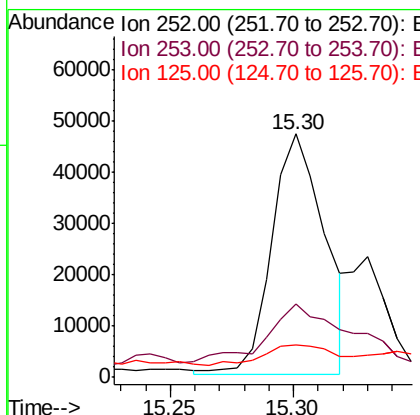
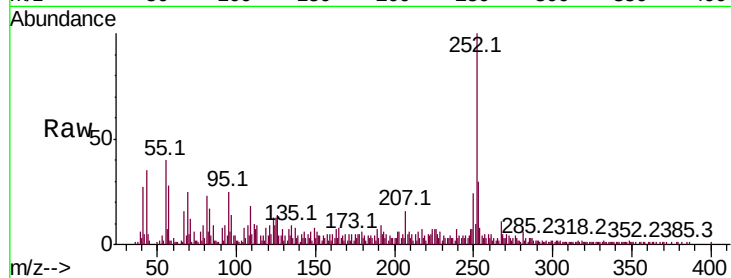
ClientSampleId :

RA-081518-FL-031

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 70446 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.1  | 17.0  | 25.6# |
| 125       | 13.3  | 9.0   | 13.6  |

Manual Integrations  
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#89

Benzo(a)pyrene

Concen: 2.270 ng

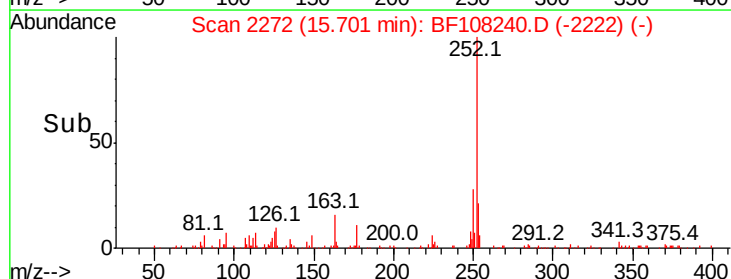
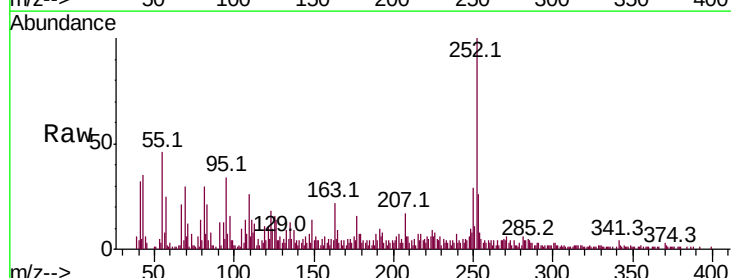
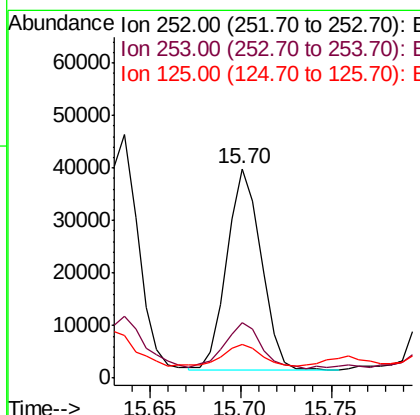
RT: 15.70 min Scan# 2272

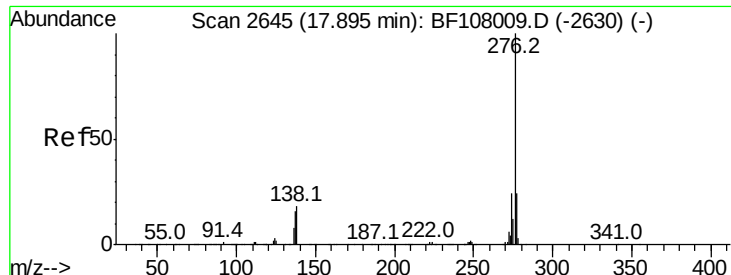
Delta R.T. -0.01 min

Lab File: BF108240.D

Acq: 17 Aug 2018 13:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 50723 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.4  | 17.1  | 25.7# |
| 125       | 15.9  | 9.8   | 14.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.232 ng  
 RT: 17.88 min Scan# 2643  
 Delta R.T. -0.01 min  
 Lab File: BF108240.D  
 Acq: 17 Aug 2018 13:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RA-081518-FL-031

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 29.0  | 17.9  | 26.9# |
| 138     | 24.2  | 21.8  | 32.8  |

Manual Integrations  
 APPROVED

Sohil  
 8/20/2018 12:48:24 PM

