

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN081019\  
 Data File : BN007070.D  
 Acq On : 11 Aug 2019 04:23  
 Operator : HP/JU  
 Sample : K4239-10  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-013-B037-080519

Manual Integrations  
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mohammad  
 8/14/2019 2:56:51 AM

Quant Time: Aug 12 05:20:18 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN081019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Aug 10 21:44:50 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.43  | 152  | 8559     | 0.40 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.19 | 136  | 32332    | 0.40 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.08 | 164  | 18594    | 0.40 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.82 | 188  | 44914    | 0.40 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.03 | 240  | 47348    | 0.40 | ng    | -0.02    |
| 32) Perylene-d12          | 23.15 | 264  | 51079    | 0.40 | ng    | -0.02    |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 3) 2-Fluorophenol           | 5.06  | 112 | 5572  | 0.27 | ng | 0.00 |
| 4) Phenol-d6                | 6.61  | 99  | 7707  | 0.30 | ng | 0.00 |
| 7) Nitrobenzene-d5          | 8.56  | 82  | 5874  | 0.23 | ng | 0.00 |
| 10) 2-Methylnaphthalene-d10 | 11.79 | 152 | 12119 | 0.20 | ng | 0.00 |
| 13) 2,4,6-Tribromophenol    | 15.57 | 330 | 1680  | 0.17 | ng | 0.00 |
| 14) 2-Fluorobiphenyl        | 12.71 | 172 | 4125  | 0.15 | ng | 0.00 |
| 24) Fluoranthene-d10        | 18.87 | 212 | 25921 | 0.16 | ng | 0.00 |
| 28) Terphenyl-d14           | 19.49 | 244 | 19423 | 0.15 | ng | 0.00 |

#### Target Compounds

|                            |       |     |        |       |    | Qvalue |
|----------------------------|-------|-----|--------|-------|----|--------|
| 15) Acenaphthylene         | 13.79 | 152 | 10783  | 0.111 | ng | 99     |
| 17) Fluorene               | 15.14 | 166 | 3218   | 0.035 | ng | 88     |
| 22) Phenanthrene           | 16.87 | 178 | 70806  | 0.526 | ng | 100    |
| 23) Anthracene             | 16.96 | 178 | 12387  | 0.101 | ng | 96     |
| 25) Fluoranthene           | 18.90 | 202 | 107455 | 0.624 | ng | 99     |
| 27) Pyrene                 | 19.26 | 202 | 131220 | 0.790 | ng | 98     |
| 29) Benzo(a)anthracene     | 21.02 | 228 | 63433m | 0.366 | ng |        |
| 30) Chrysene               | 21.08 | 228 | 69184  | 0.411 | ng | 97     |
| 31) Indeno(1,2,3-cd)pyrene | 25.23 | 276 | 34905  | 0.188 | ng | 97     |
| 33) Benzo(b)fluoranthene   | 22.53 | 252 | 78376  | 0.447 | ng | 97     |
| 34) Benzo(k)fluoranthene   | 22.57 | 252 | 20094m | 0.116 | ng |        |
| 35) Benzo(a)pyrene         | 23.06 | 252 | 54554  | 0.344 | ng | 99     |
| 36) Dibenzo(a,h)anthracene | 25.24 | 278 | 9533   | 0.060 | ng | # 80   |
| 37) Benzo(g,h,i)perylene   | 25.85 | 276 | 37740  | 0.232 | ng | 98     |

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

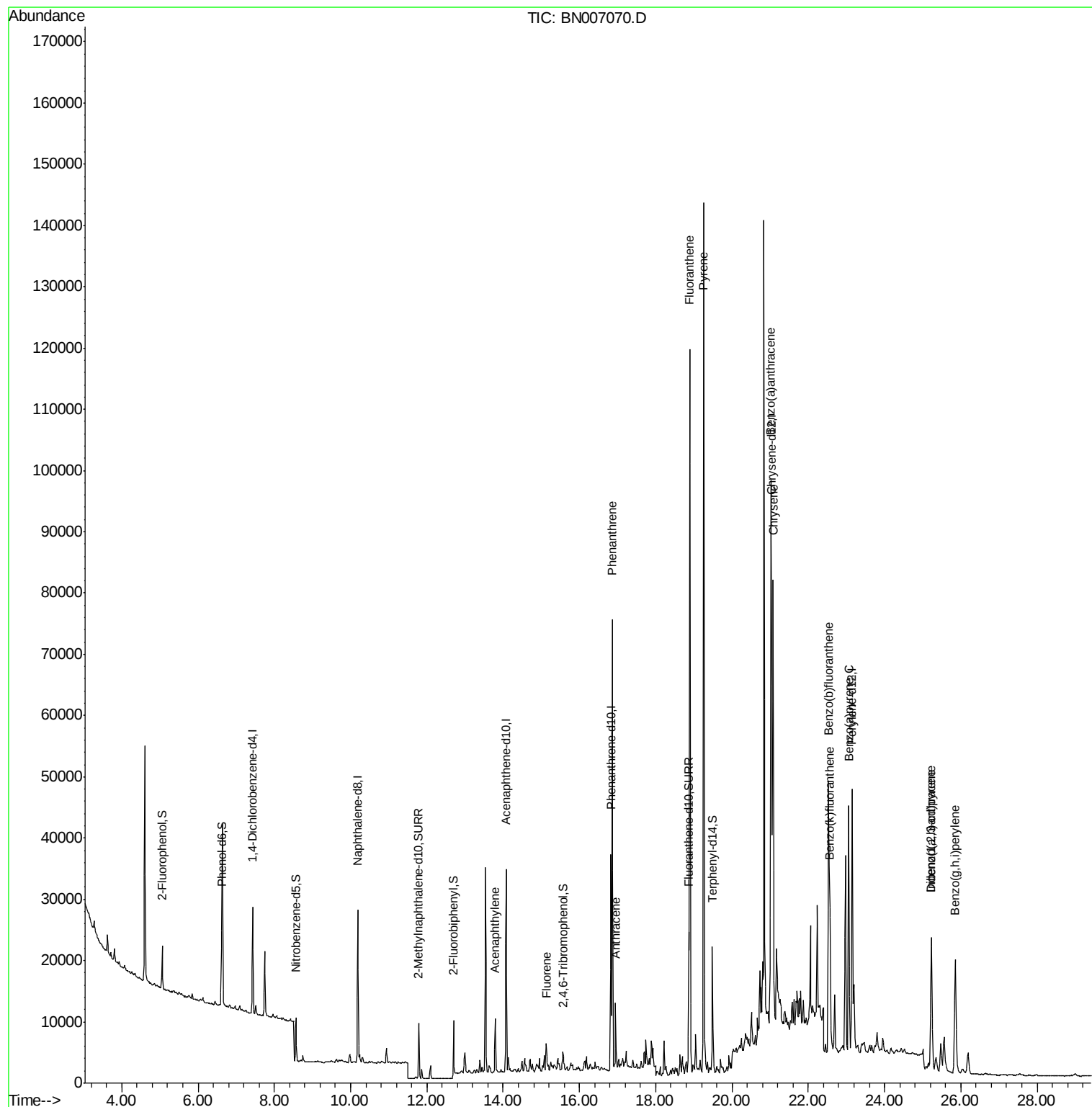
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN081019\  
Data File : BN007070.D  
Acq On : 11 Aug 2019 04:23  
Operator : HP/JU  
Sample : K4239-10  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B037-080519

Manual Integrations  
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8/14/2019 2:56:51 AM

Quant Time: Aug 12 05:20:18 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN081019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Aug 10 21:44:50 2019  
Response via : Initial Calibration

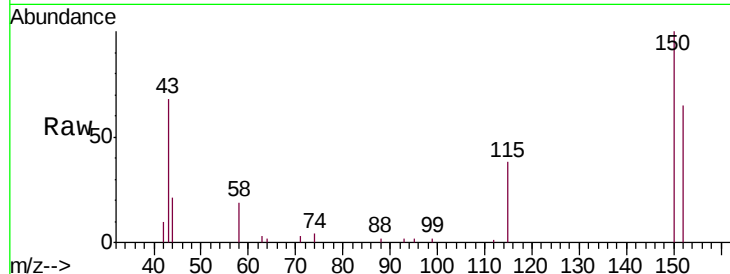




#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.43 min Scan# 547  
Delta R.T. -0.00 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

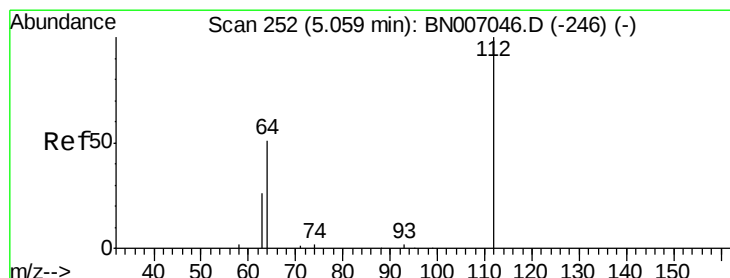
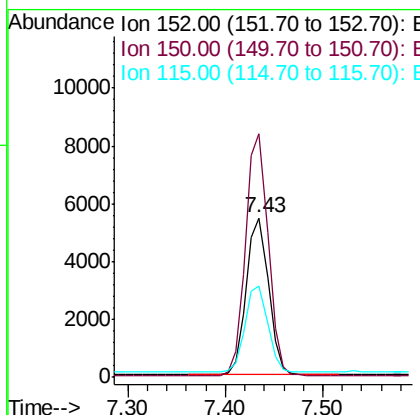
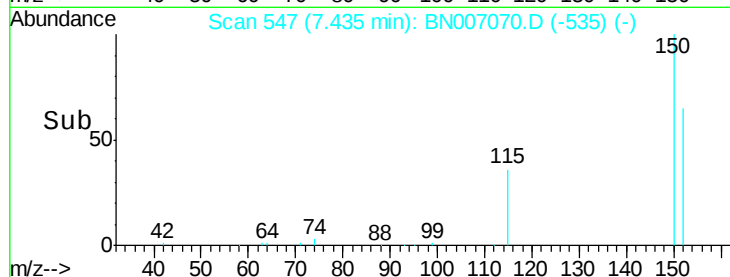
Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B037-080519



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.8 | 121.7 | 182.5 |
| 115     | 57.5  | 46.2  | 69.4  |

Manual Integrations  
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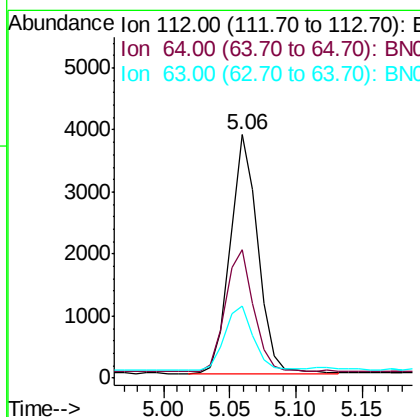
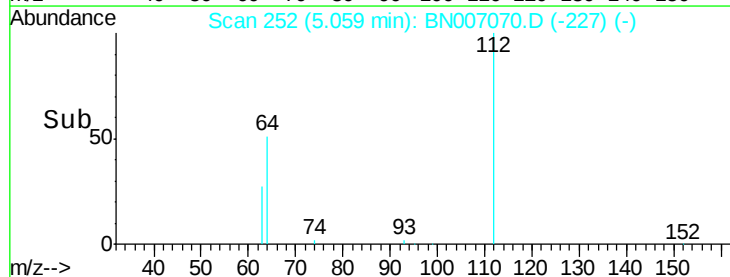
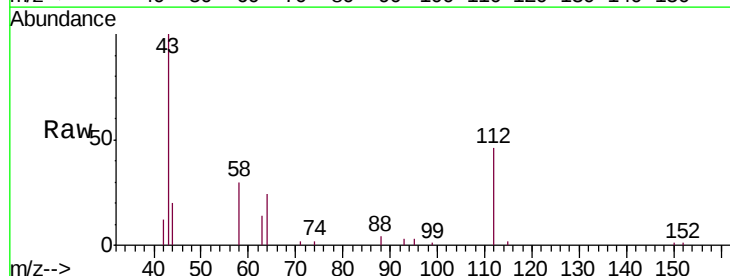
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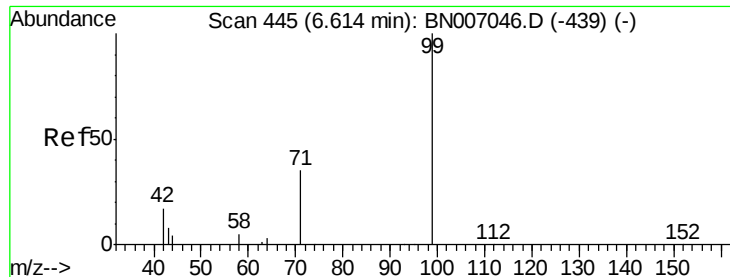


#3

2-Fluorophenol  
Concen: 0.271 ng  
RT: 5.06 min Scan# 252  
Delta R.T. -0.00 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.8  | 42.6  | 63.8  |
| 63      | 27.8  | 22.2  | 33.2  |





#4

Phenol-d6

Concen: 0.303 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA\_N

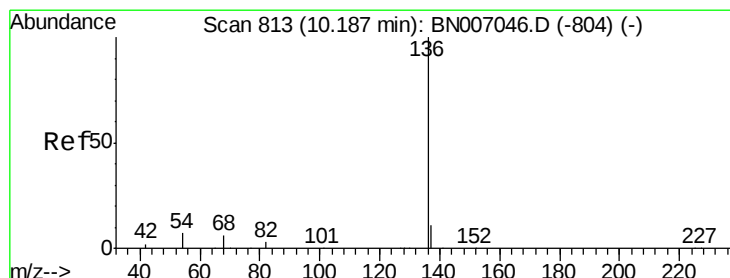
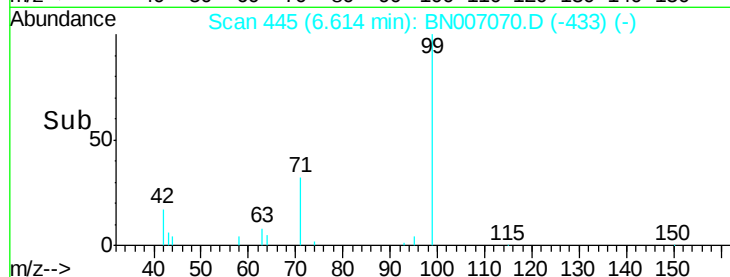
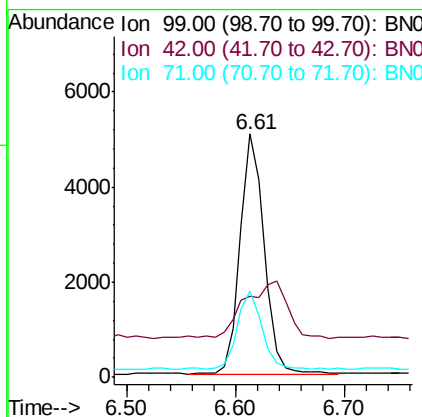
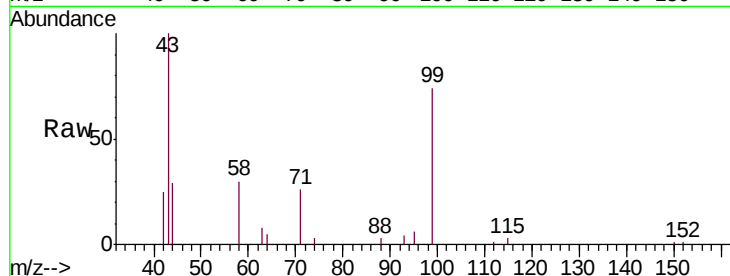
ClientSampleId :

PST-013-B037-080519

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 7707  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 0.0   | 15.8  | 23.6# |
| 71        | 33.7  | 27.0  | 40.4  |

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#6

Naphthalene-d8

Concen: 0.400 ng

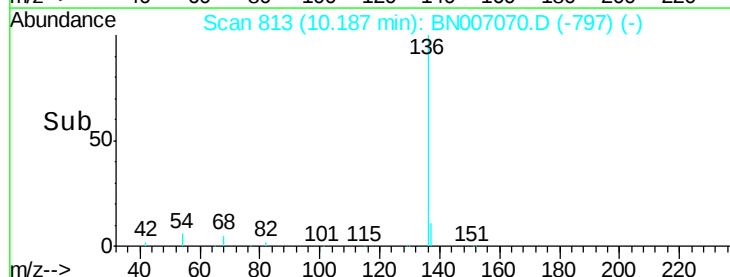
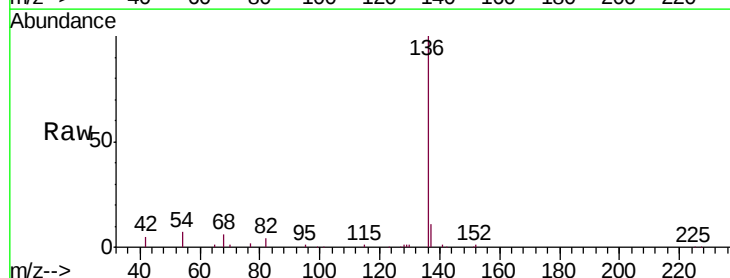
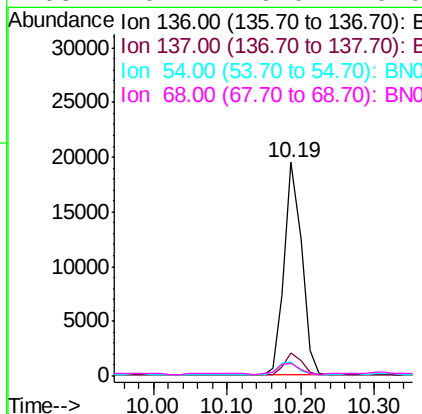
RT: 10.19 min Scan# 813

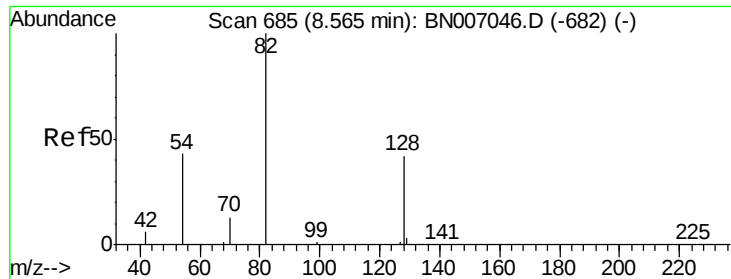
Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 32332 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.1  | 9.4   | 14.0  |
| 54        | 6.8   | 6.6   | 9.8   |
| 68        | 6.2   | 6.0   | 9.0   |





#7

Nitrobenzene-d5

Concen: 0.225 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA\_N

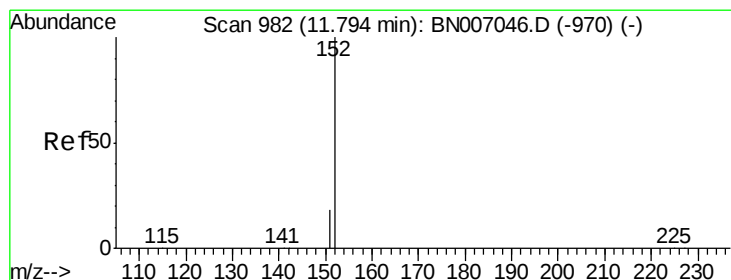
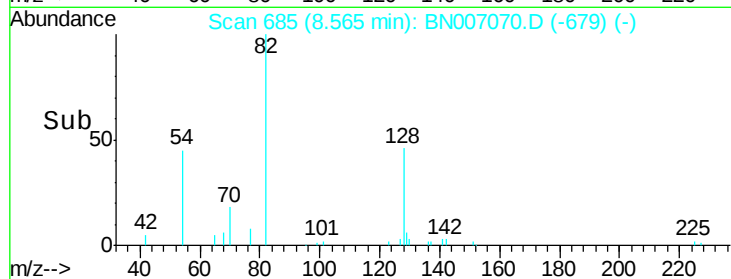
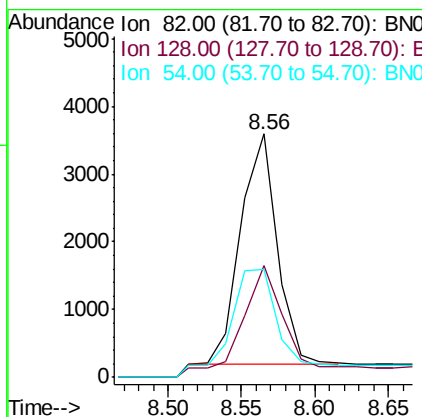
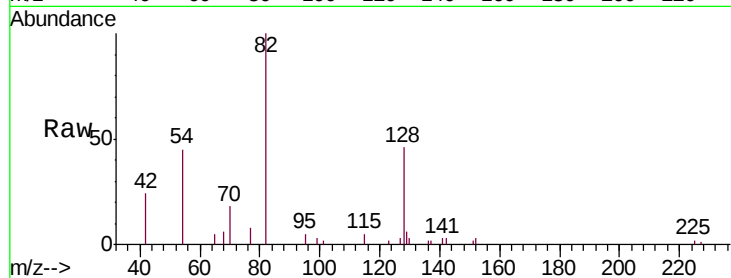
ClientSampleId :

PST-013-B037-080519

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 5874 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 46.0  | 34.6  | 51.8 |
| 54        | 44.6  | 36.2  | 54.4 |

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#10

2-Methylnaphthalene-d10

Concen: 0.201 ng

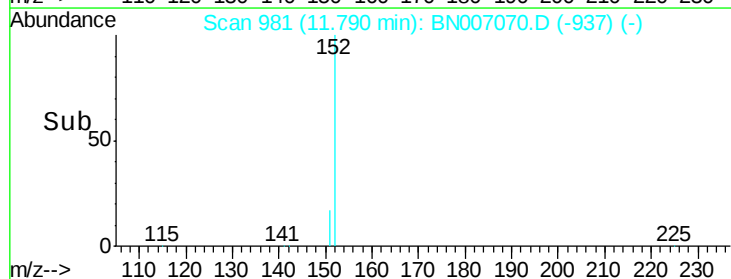
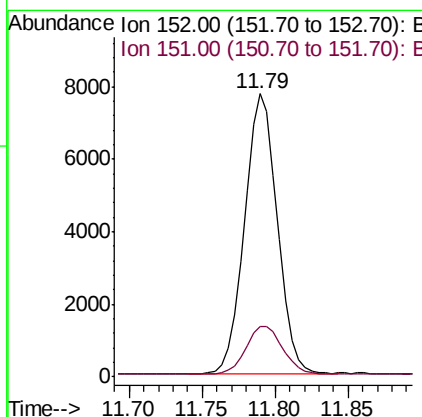
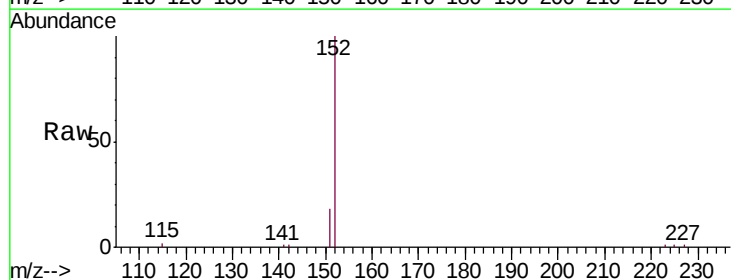
RT: 11.79 min Scan# 981

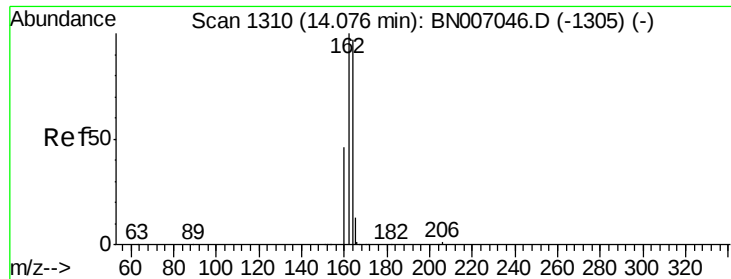
Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 12119 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.4  | 15.5  | 23.3  |





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA\_N

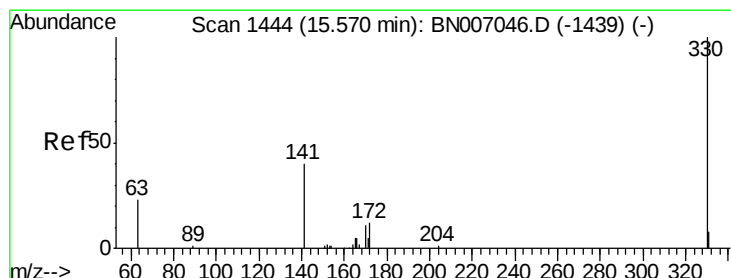
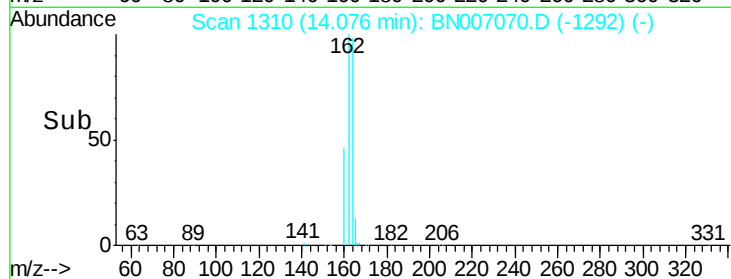
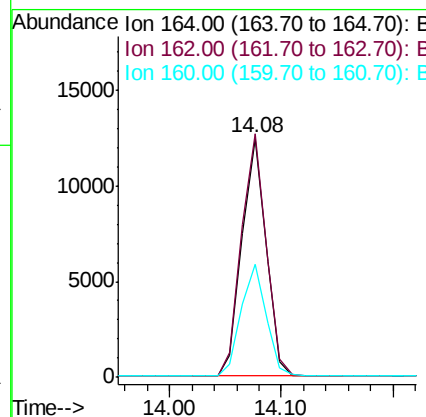
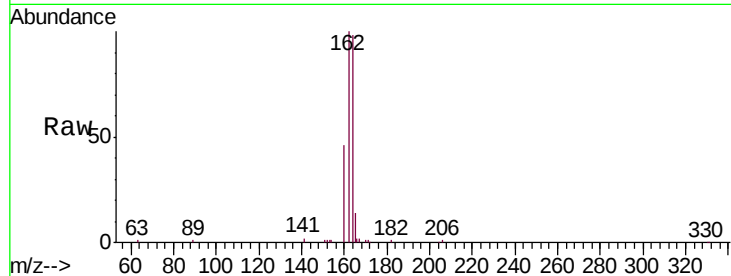
ClientSampleId :

PST-013-B037-080519

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 18594 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 102.1 | 82.2  | 123.4 |
| 160       | 47.1  | 38.3  | 57.5  |

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#13

2,4,6-Tribromophenol

Concen: 0.168 ng

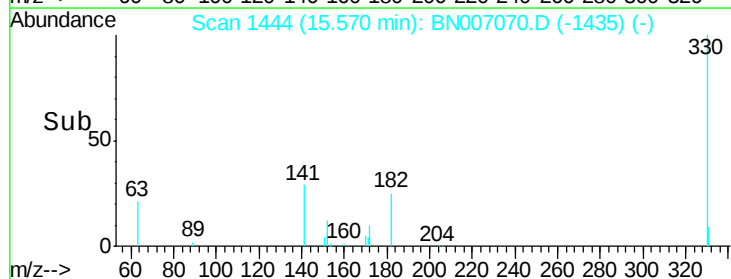
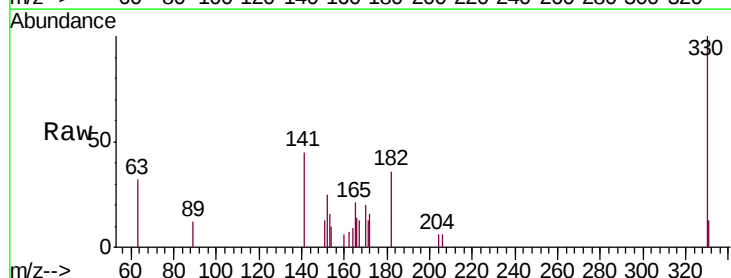
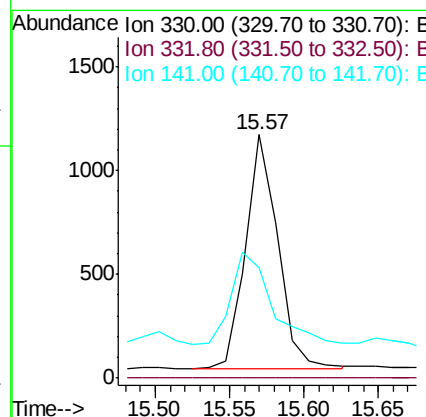
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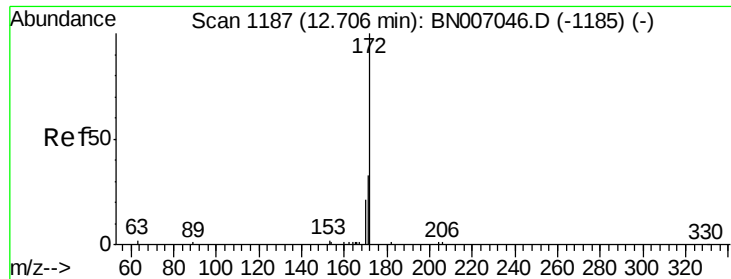
Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 330   | Resp: | 1680 |
| Ion Ratio | Lower | Upper |      |
| 330       | 100   |       |      |
| 332       | 0.0   | 0.0   | 0.0  |
| 141       | 49.1  | 33.6  | 50.4 |





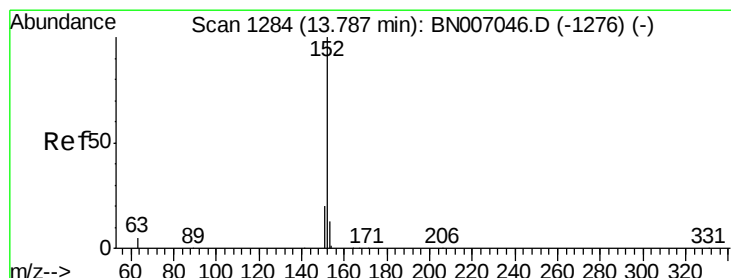
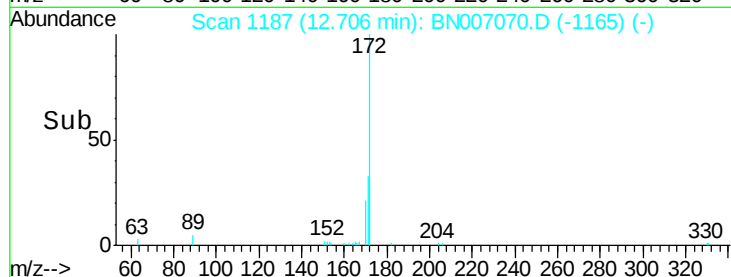
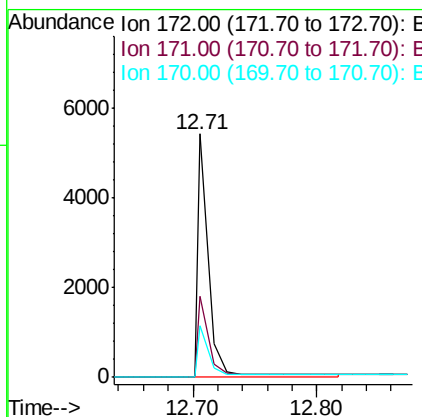
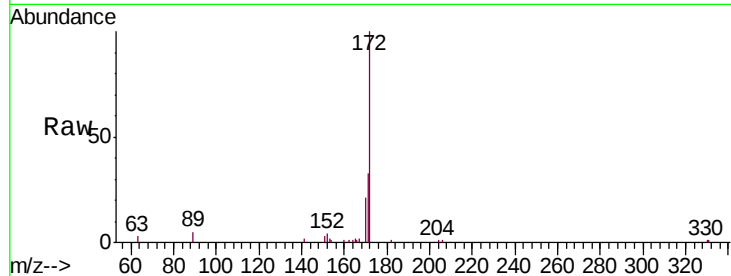
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2-Fluorobiphenyl  
Concen: 0.153 ng  
RT: 12.71 min Scan# 1187  
Delta R.T. -0.00 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.1  | 26.3  | 39.5  |
| 170     | 21.4  | 17.0  | 25.4  |

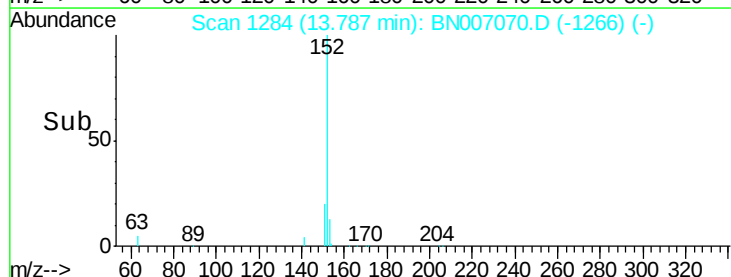
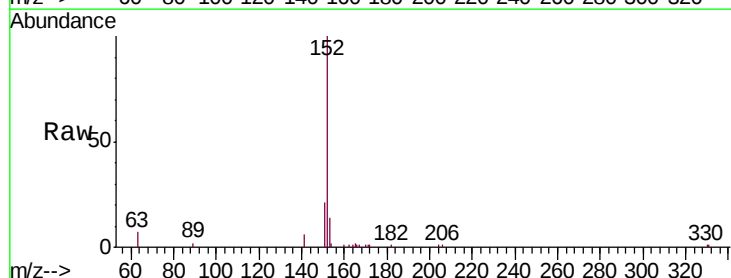
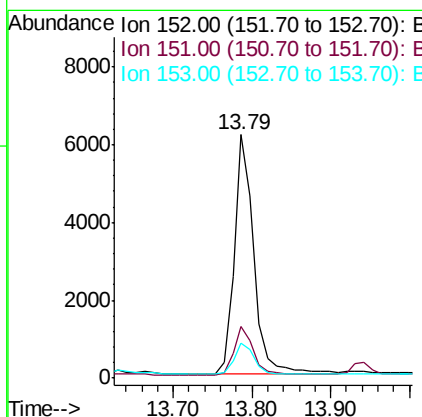
Manual Integrations  
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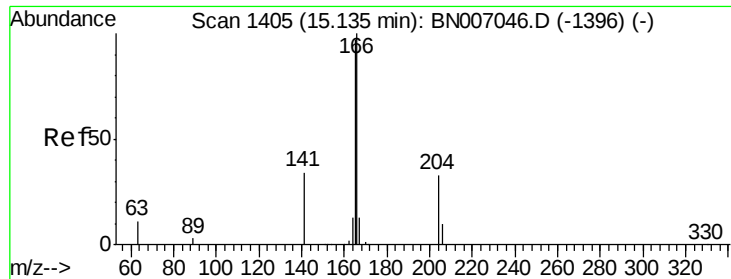
mohammad  
8/14/2019 2:56:51 AM



#15  
Acenaphthylene  
Concen: 0.111 ng  
RT: 13.79 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 15.8  | 23.6  |
| 153     | 13.8  | 10.4  | 15.6  |





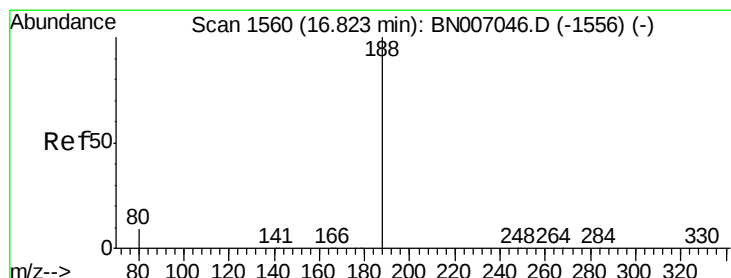
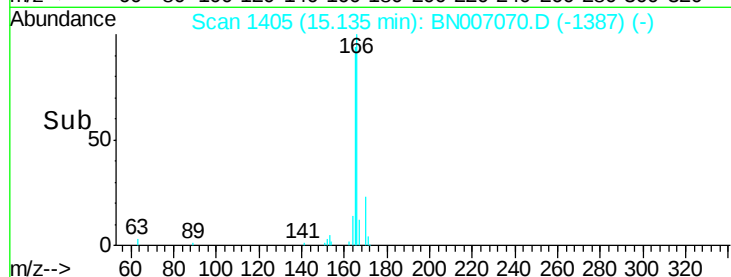
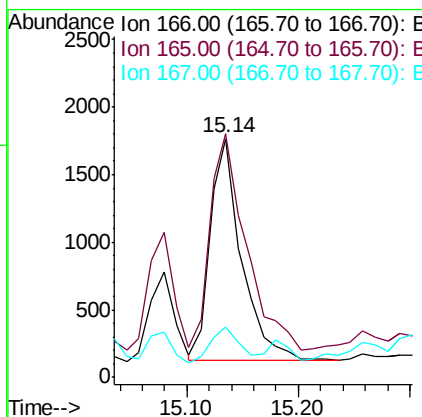
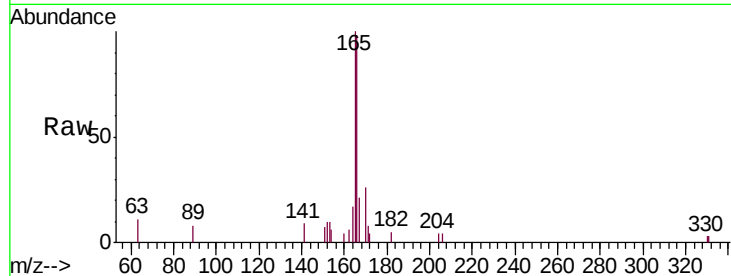
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**Fluorene**  
 Concen: 0.035 ng  
 RT: 15.14 min Scan# 1405  
 Delta R.T. -0.00 min  
 Lab File: BN007070.D  
 Acq: 11 Aug 2019 04:23

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 110.5 | 77.9  | 116.9 |
| 167     | 15.1  | 10.9  | 16.3  |

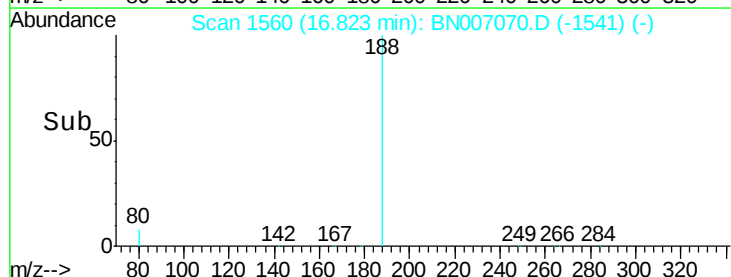
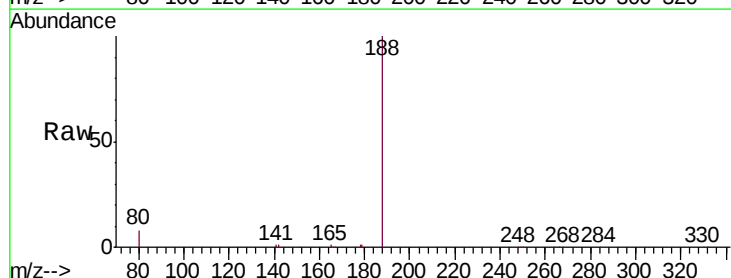
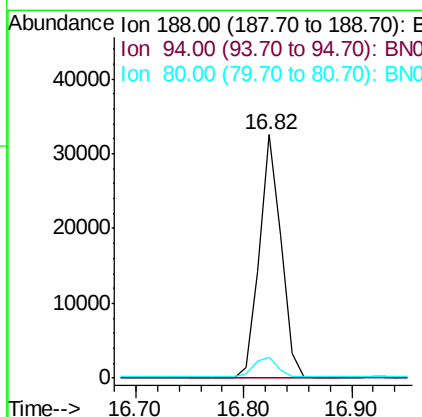
Manual Integrations  
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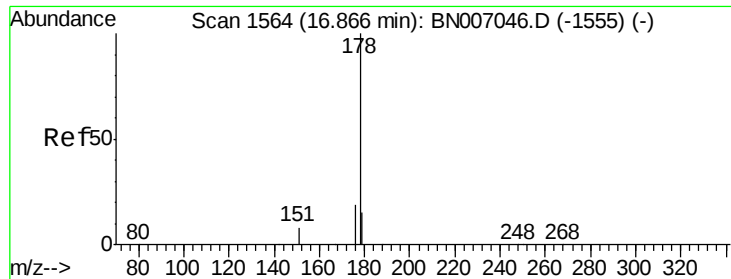
mohammad  
 8/14/2019 2:56:51 AM



#18  
**Phenanthrene-d10**  
 Concen: 0.400 ng  
 RT: 16.82 min Scan# 1560  
 Delta R.T. -0.00 min  
 Lab File: BN007070.D  
 Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 8.4   | 7.8   | 11.6  |





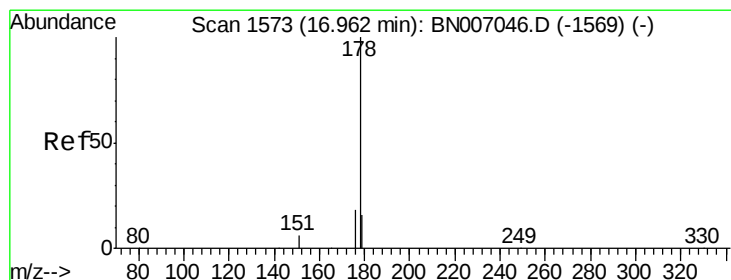
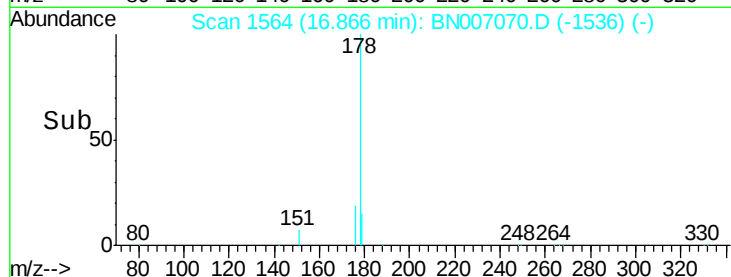
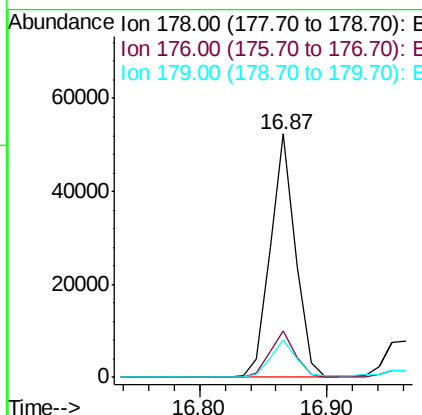
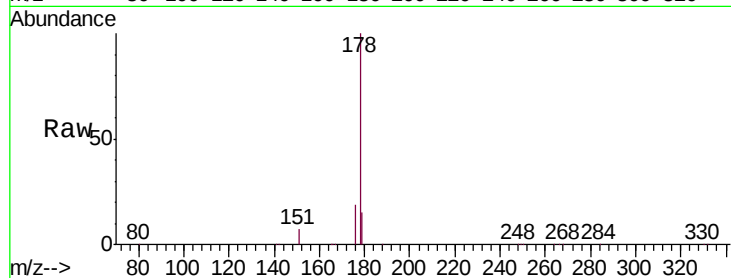
#22  
Phenanthrene  
Concen: 0.526 ng  
RT: 16.87 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

Instrument :  
BNA\_N  
ClientSampled :  
PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.2  | 22.8  |
| 179     | 15.5  | 12.3  | 18.5  |

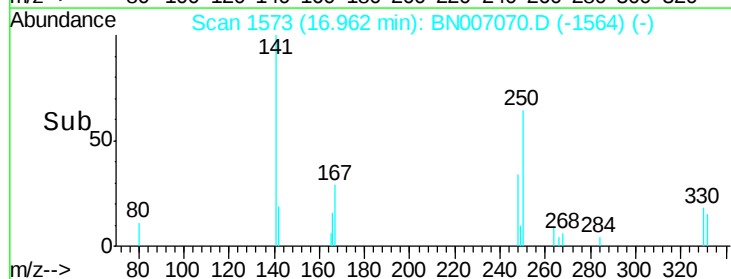
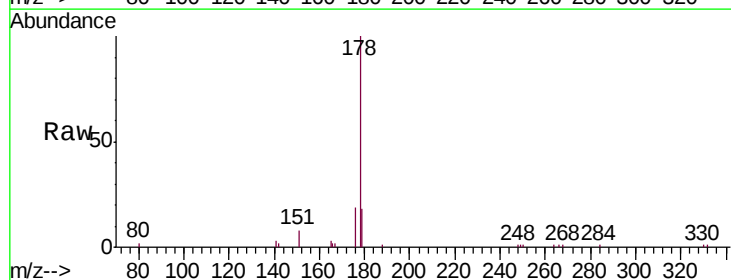
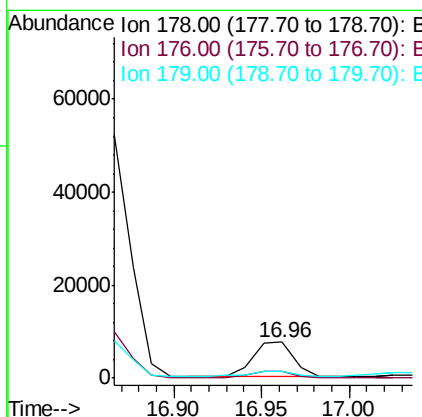
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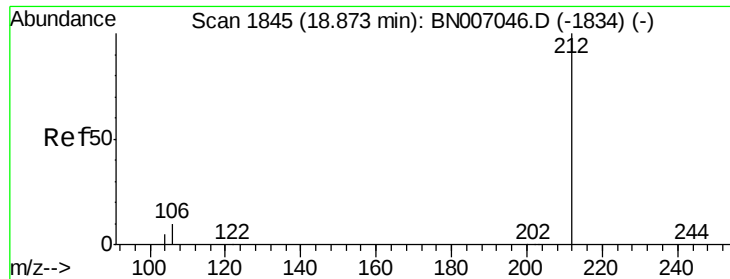
mohammad  
8/14/2019 2:56:51 AM



#23  
Anthracene  
Concen: 0.101 ng  
RT: 16.96 min Scan# 1573  
Delta R.T. -0.00 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 14.6  | 21.8  |
| 179     | 18.6  | 12.5  | 18.7  |





#24

Fluoranthene-d10

Concen: 0.163 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA\_N

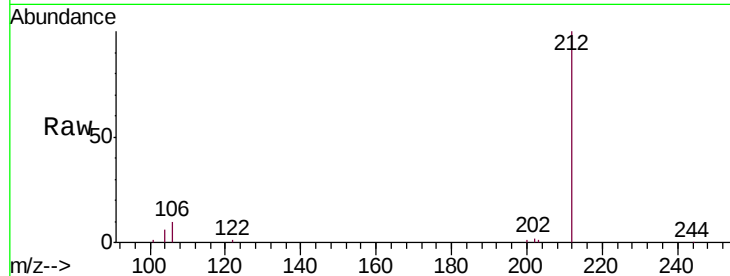
ClientSampleId :

PST-013-B037-080519

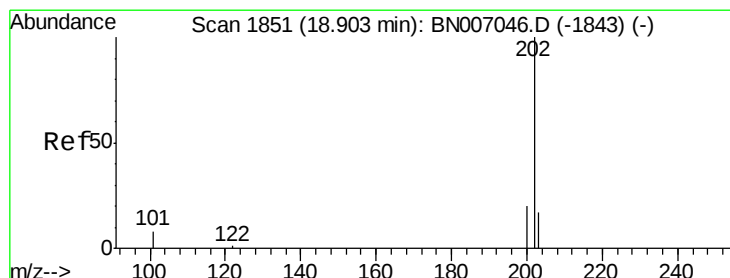
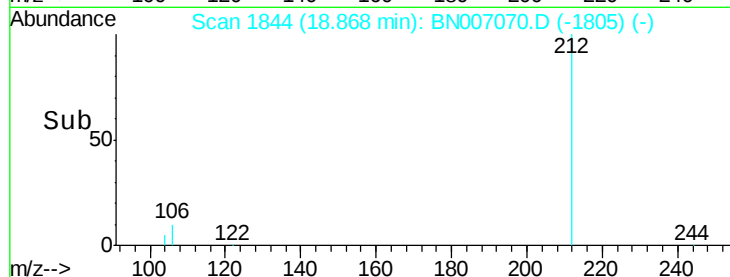
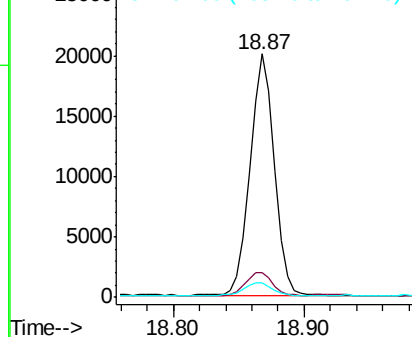
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 25921 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 10.3  | 8.2   | 12.2  |
| 104       | 5.9   | 4.5   | 6.7   |

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Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#25

Fluoranthene

Concen: 0.624 ng

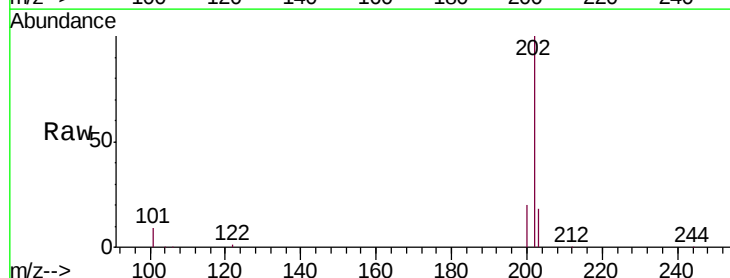
RT: 18.90 min Scan# 1850

Delta R.T. -0.00 min

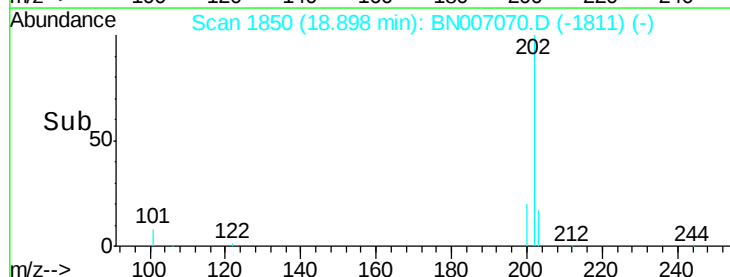
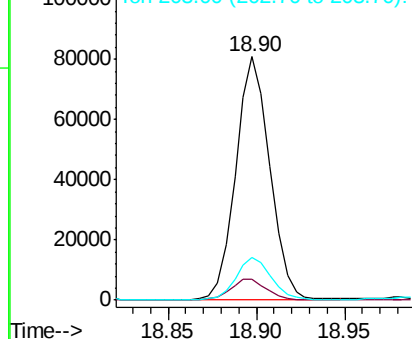
Lab File: BN007070.D

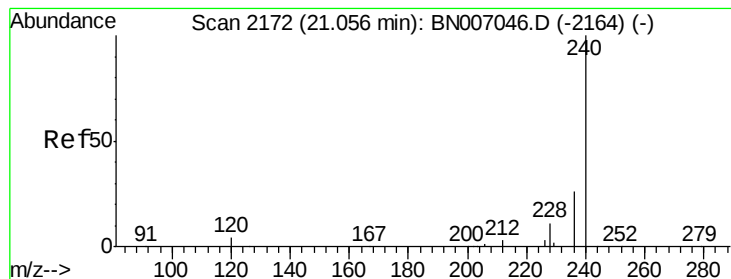
Acq: 11 Aug 2019 04:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 107455 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.7   | 7.0   | 10.4   |
| 203       | 17.6  | 13.8  | 20.8   |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA\_N

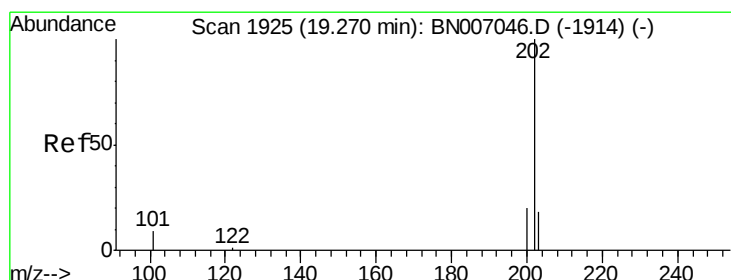
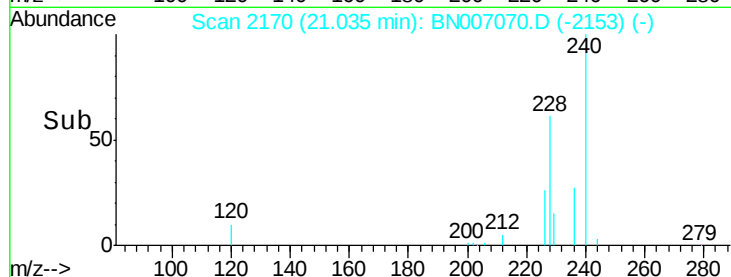
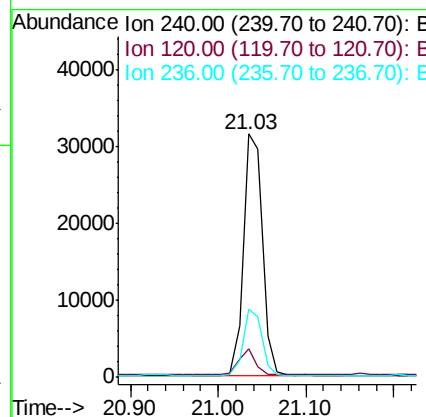
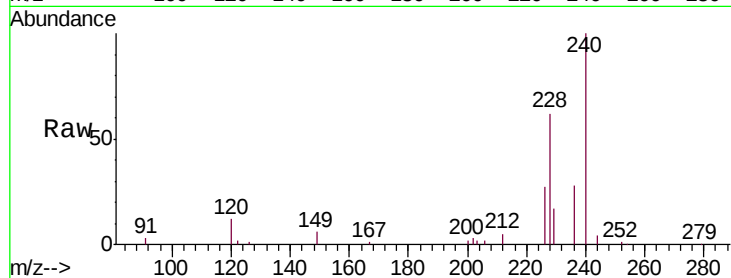
ClientSampleId :

PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.9  | 4.0   | 6.0#  |
| 236     | 28.2  | 21.3  | 31.9  |

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#27

Pyrene

Concen: 0.790 ng

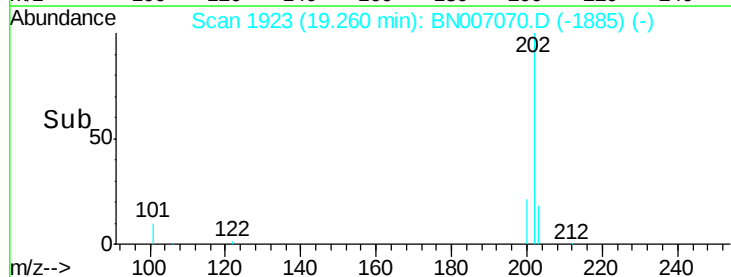
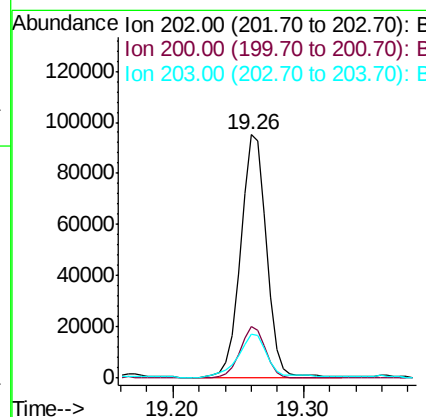
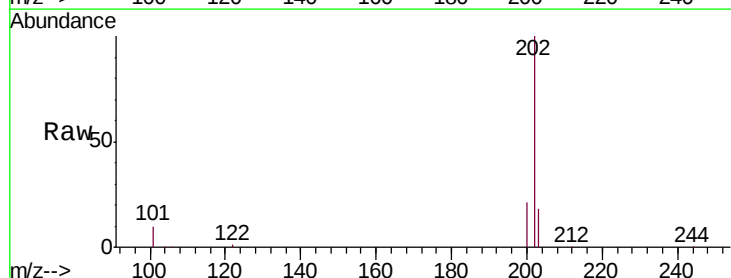
RT: 19.26 min Scan# 1923

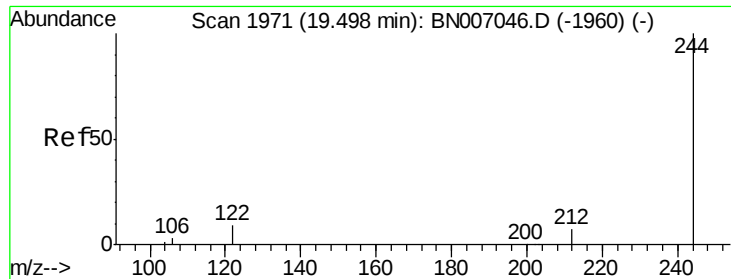
Delta R.T. -0.01 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 16.6  | 24.8  |
| 203     | 19.5  | 14.0  | 21.0  |





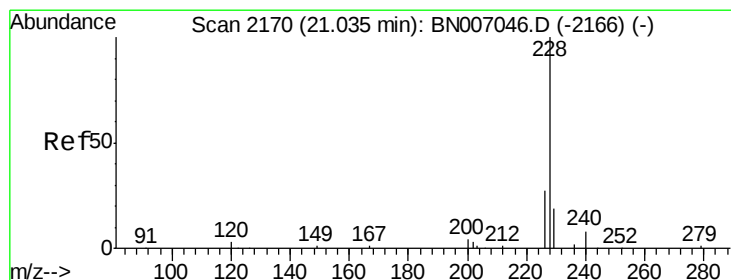
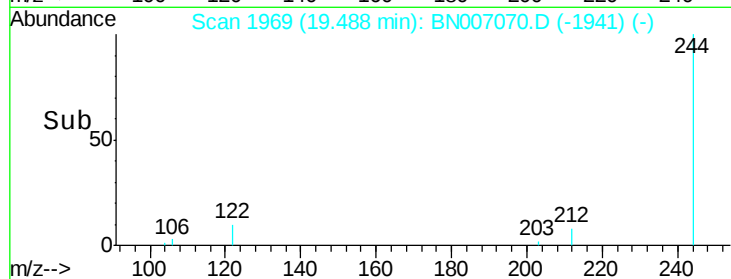
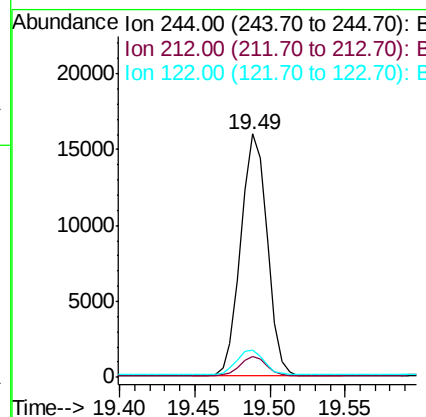
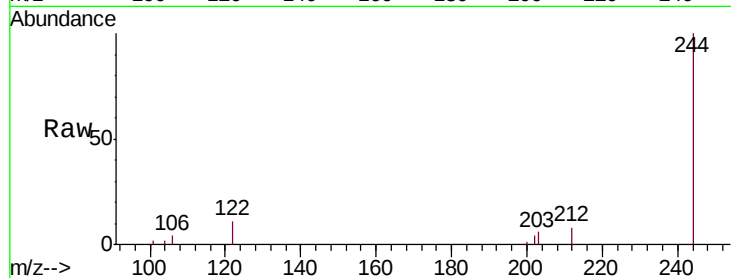
#28  
 Terphenyl-d14  
 Concen: 0.151 ng  
 RT: 19.49 min Scan# 1969  
 Delta R.T. -0.01 min  
 Lab File: BN007070.D  
 Acq: 11 Aug 2019 04:23

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-013-B037-080519

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 244     | 100   | 19423 |       |       |
| 212     | 8.5   | 6.2   | 9.2   |       |
| 122     | 11.1  | 7.4   | 11.2  |       |

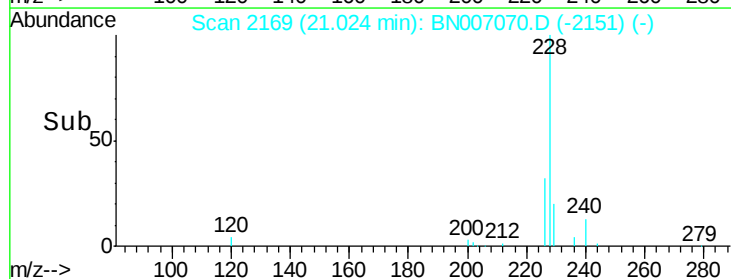
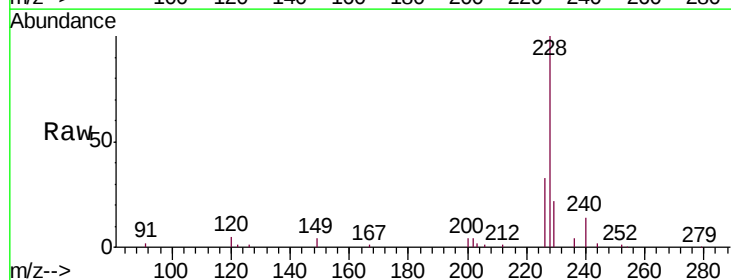
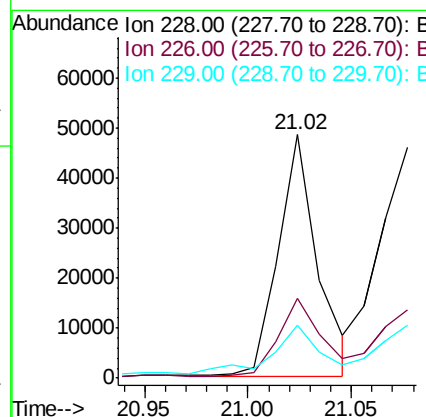
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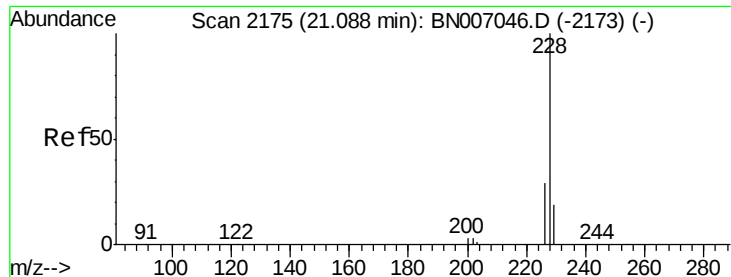
mohammad  
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#29  
 Benzo(a)anthracene  
 Concen: 0.366 ng m  
 RT: 21.02 min Scan# 2169  
 Delta R.T. -0.01 min  
 Lab File: BN007070.D  
 Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 63433 |       |       |
| 226     | 32.7  | 21.8  | 32.6# |       |
| 229     | 21.9  | 15.6  | 23.4  |       |





#30

Chrysene

Concen: 0.411 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

Instrument :

BNA\_N

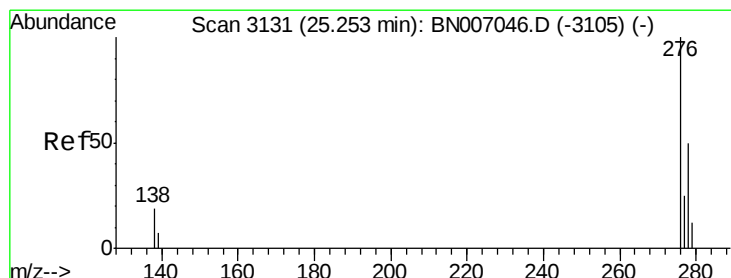
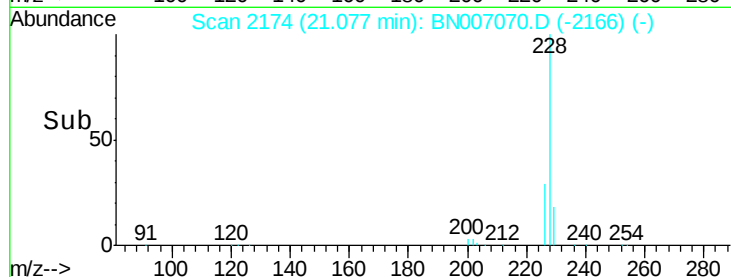
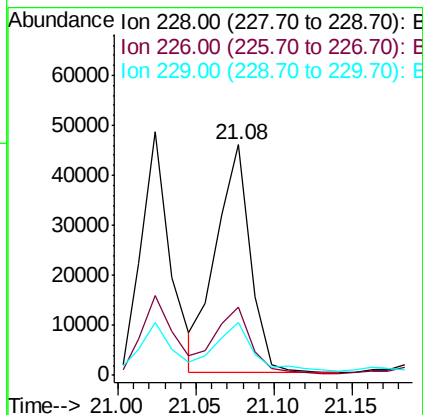
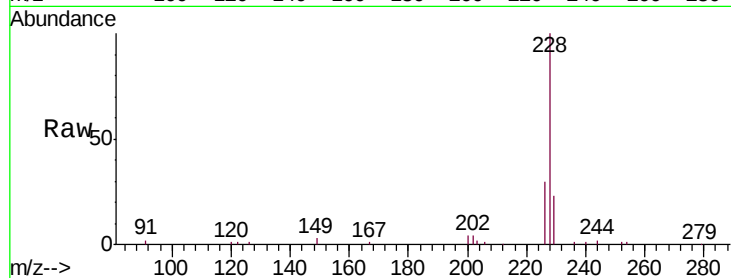
ClientSampleId :

PST-013-B037-080519

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 69184 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.7  | 23.8  | 35.6  |
| 229       | 23.1  | 15.7  | 23.5  |

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#31

Indeno(1,2,3-cd)pyrene

Concen: 0.188 ng

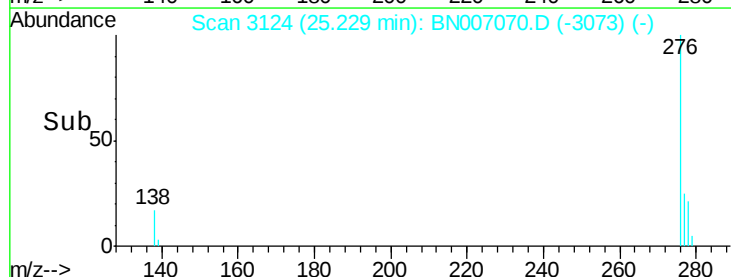
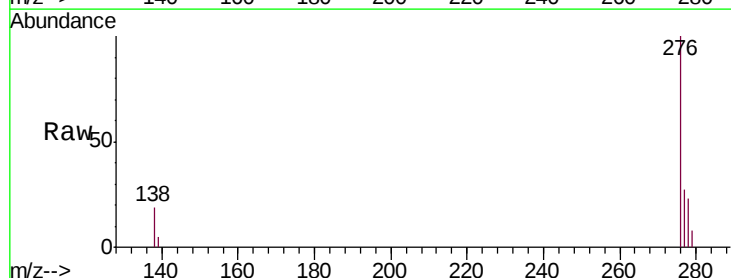
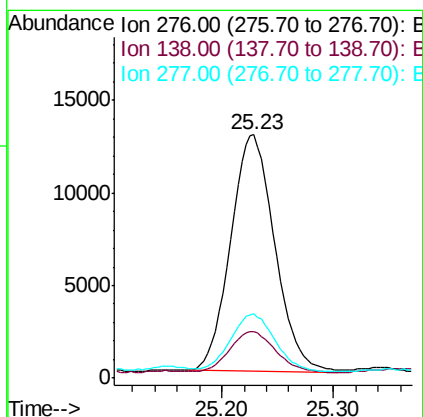
RT: 25.23 min Scan# 3124

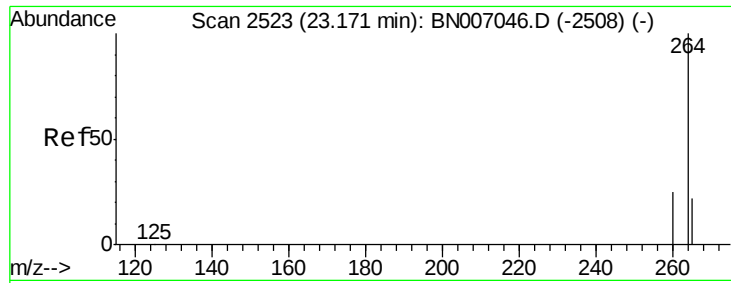
Delta R.T. -0.02 min

Lab File: BN007070.D

Acq: 11 Aug 2019 04:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 34905 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 17.8  | 16.0  | 24.0  |
| 277       | 24.5  | 19.9  | 29.9  |





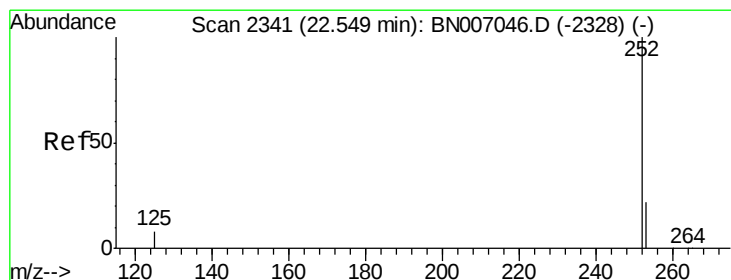
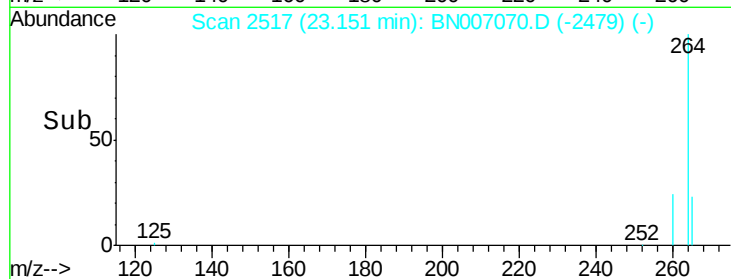
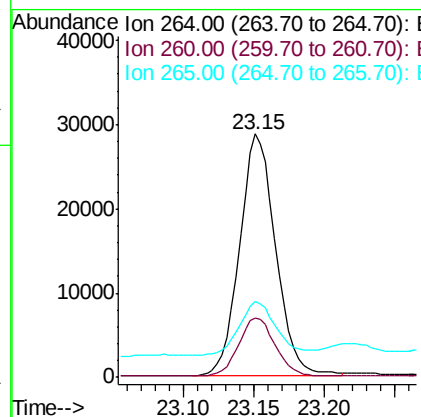
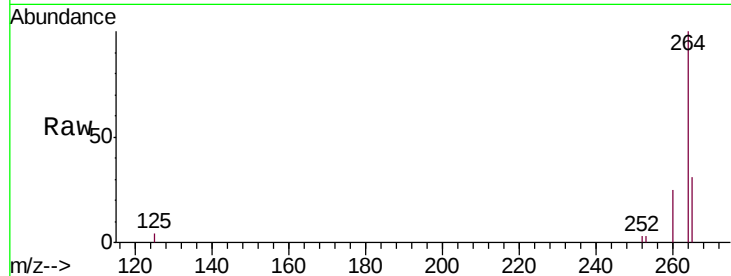
#32  
**Perylene-d12**  
 Concen: 0.400 ng  
 RT: 23.15 min Scan# 2517  
 Delta R.T. -0.02 min  
 Lab File: BN007070.D  
 Acq: 11 Aug 2019 04:23

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.8  | 29.8  |
| 265     | 31.2  | 26.2  | 39.4  |

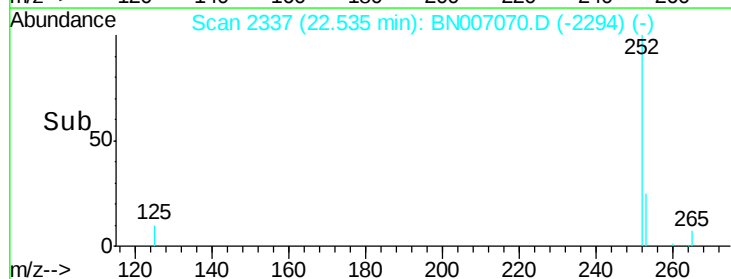
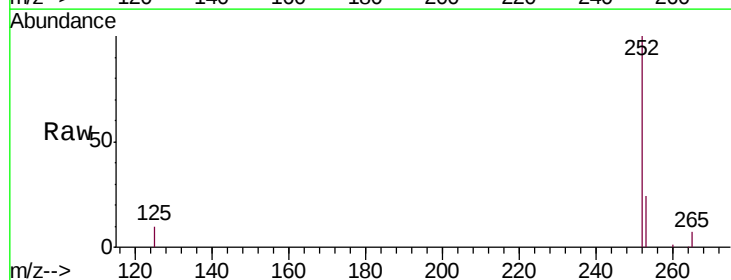
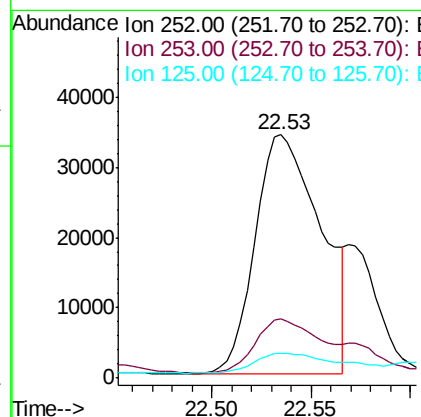
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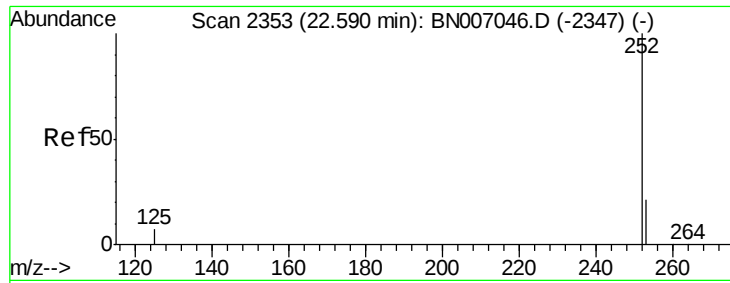
mohammad  
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#33  
**Benzo(b)fluoranthene**  
 Concen: 0.447 ng  
 RT: 22.53 min Scan# 2337  
 Delta R.T. -0.01 min  
 Lab File: BN007070.D  
 Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 18.2  | 27.2  |
| 125     | 10.2  | 7.4   | 11.0  |





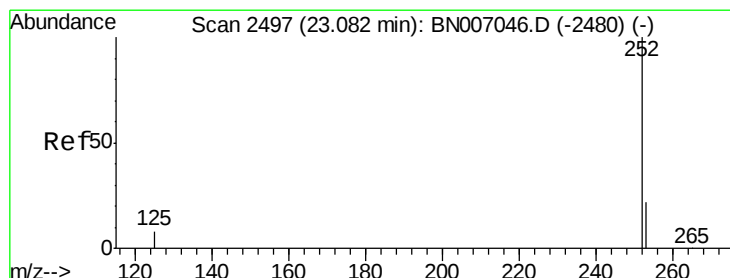
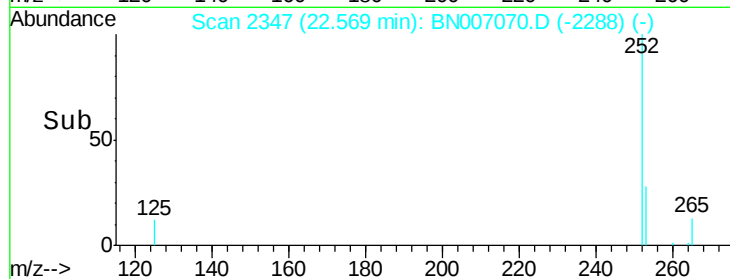
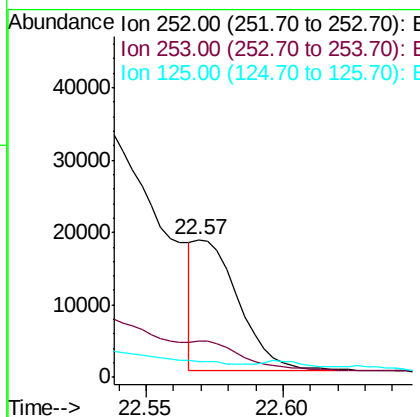
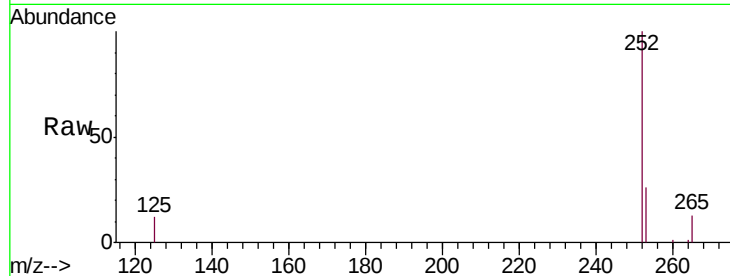
#34  
Benzo(k)fluoranthene  
Concen: 0.116 ng m  
RT: 22.57 min Scan# 2347  
Delta R.T. -0.02 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.4  | 18.1  | 27.1  |
| 125     | 11.6  | 7.4   | 11.0  |

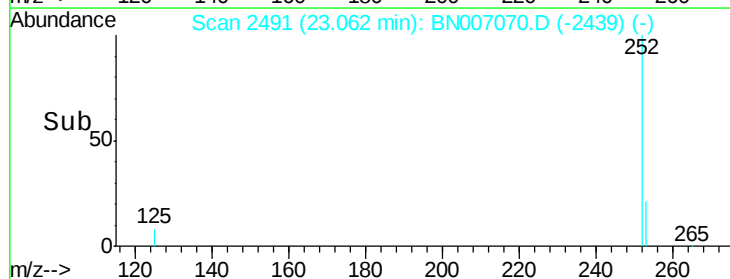
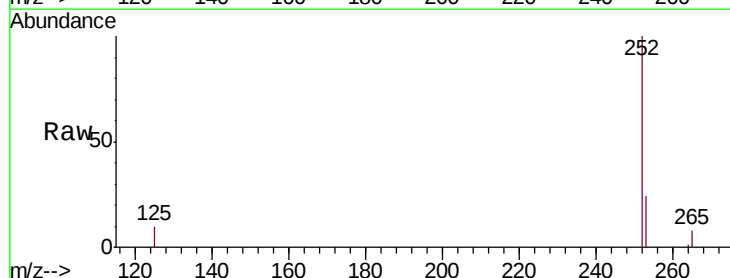
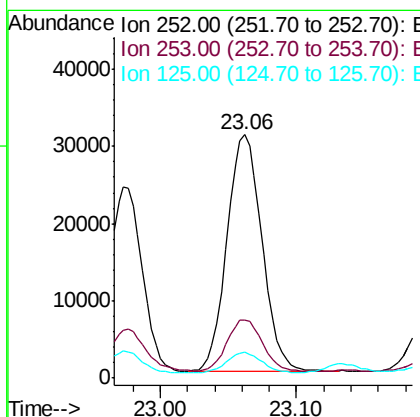
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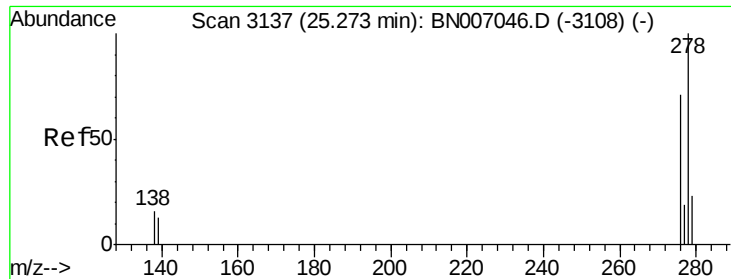
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#35  
Benzo(a)pyrene  
Concen: 0.344 ng  
RT: 23.06 min Scan# 2491  
Delta R.T. -0.02 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.5  | 27.7  |
| 125     | 10.5  | 8.2   | 12.4  |





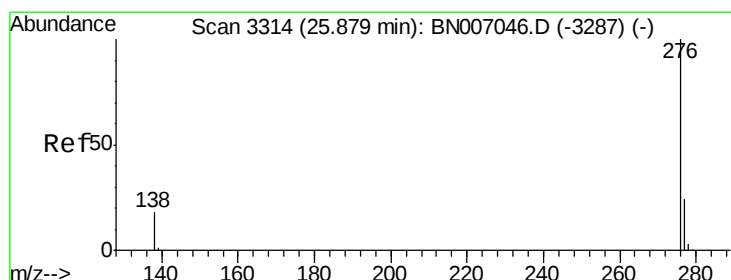
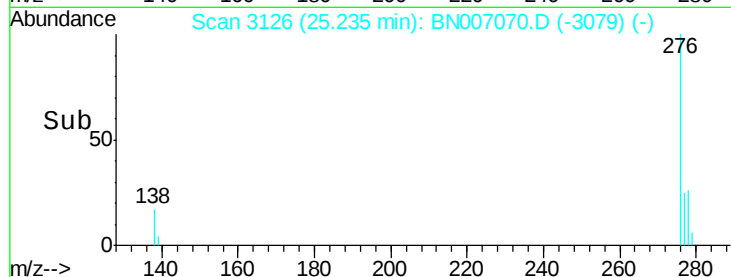
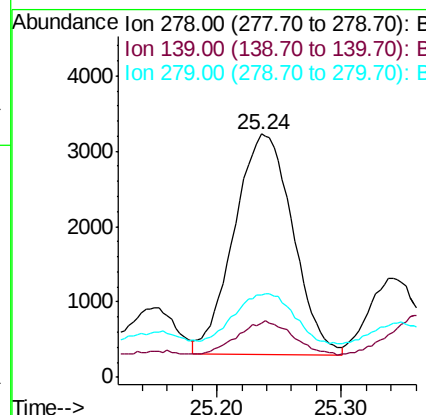
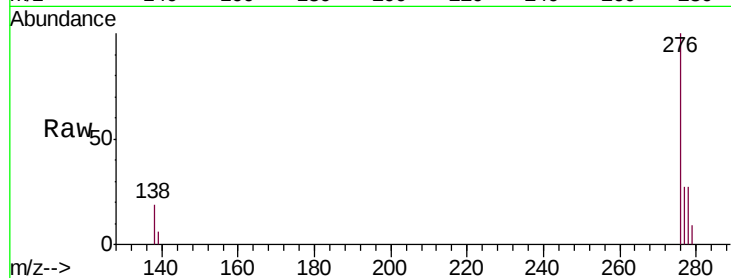
#36  
Dibenzo(a,h)anthracene  
Concen: 0.060 ng  
RT: 25.24 min Scan# 3126  
Delta R.T. -0.04 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B037-080519

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.3  | 11.3  | 16.9# |
| 279     | 33.7  | 19.3  | 28.9# |

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#37  
Benzo(g,h,i)perylene  
Concen: 0.232 ng  
RT: 25.85 min Scan# 3307  
Delta R.T. -0.02 min  
Lab File: BN007070.D  
Acq: 11 Aug 2019 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.0  | 19.8  | 29.8  |
| 138     | 19.2  | 14.6  | 22.0  |

