

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\  
 Data File : BN007119.D  
 Acq On : 13 Aug 2019 07:31  
 Operator : HP/JU  
 Sample : K4240-01  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-035-B247-080619

Manual Integrations  
 APPROVED

mohammad  
 8/14/2019 2:52:39 AM

Quant Time: Aug 13 08:48:43 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  | 9459     | 0.40 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.19 | 136  | 36749    | 0.40 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.08 | 164  | 20967    | 0.40 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.82 | 188  | 49444    | 0.40 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.05 | 240  | 48110    | 0.40 | ng    | -0.01    |
| 32) Perylene-d12          | 23.16 | 264  | 53127    | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 3) 2-Fluorophenol           | 5.06  | 112 | 5251  | 0.23 | ng | 0.00  |
| 4) Phenol-d6                | 6.62  | 99  | 7176  | 0.25 | ng | 0.00  |
| 7) Nitrobenzene-d5          | 8.56  | 82  | 5728  | 0.19 | ng | 0.00  |
| 10) 2-Methylnaphthalene-d10 | 11.79 | 152 | 12446 | 0.18 | ng | 0.00  |
| 13) 2,4,6-Tribromophenol    | 15.57 | 330 | 1848  | 0.16 | ng | 0.00  |
| 14) 2-Fluorobiphenyl        | 12.71 | 172 | 3198  | 0.10 | ng | 0.00  |
| 24) Fluoranthene-d10        | 18.87 | 212 | 27884 | 0.16 | ng | 0.00  |
| 28) Terphenyl-d14           | 19.49 | 244 | 21253 | 0.16 | ng | -0.01 |

|                            |       |     |        |        |    |      |
|----------------------------|-------|-----|--------|--------|----|------|
| Target Compounds           |       |     |        | Qvalue |    |      |
| 15) Acenaphthylene         | 13.79 | 152 | 5751   | 0.052  | ng | 100  |
| 22) Phenanthrene           | 16.87 | 178 | 17796  | 0.120  | ng | 98   |
| 23) Anthracene             | 16.95 | 178 | 4064   | 0.030  | ng | # 91 |
| 25) Fluoranthene           | 18.90 | 202 | 52008  | 0.274  | ng | 99   |
| 27) Pyrene                 | 19.26 | 202 | 49402  | 0.293  | ng | # 96 |
| 29) Benzo(a)anthracene     | 21.02 | 228 | 30099  | 0.171  | ng | # 88 |
| 30) Chrysene               | 21.08 | 228 | 33138  | 0.194  | ng | # 91 |
| 31) Indeno(1,2,3-cd)pyrene | 25.24 | 276 | 23080  | 0.123  | ng | 99   |
| 33) Benzo(b)fluoranthene   | 22.54 | 252 | 45346  | 0.249  | ng | # 80 |
| 34) Benzo(k)fluoranthene   | 22.58 | 252 | 14367m | 0.080  | ng |      |
| 35) Benzo(a)pyrene         | 23.07 | 252 | 30259  | 0.183  | ng | # 79 |
| 36) Dibenzo(a,h)anthracene | 25.25 | 278 | 6166   | 0.037  | ng | # 4  |
| 37) Benzo(a,h,i)perylene   | 25.87 | 276 | 23233  | 0.137  | ng | # 83 |

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

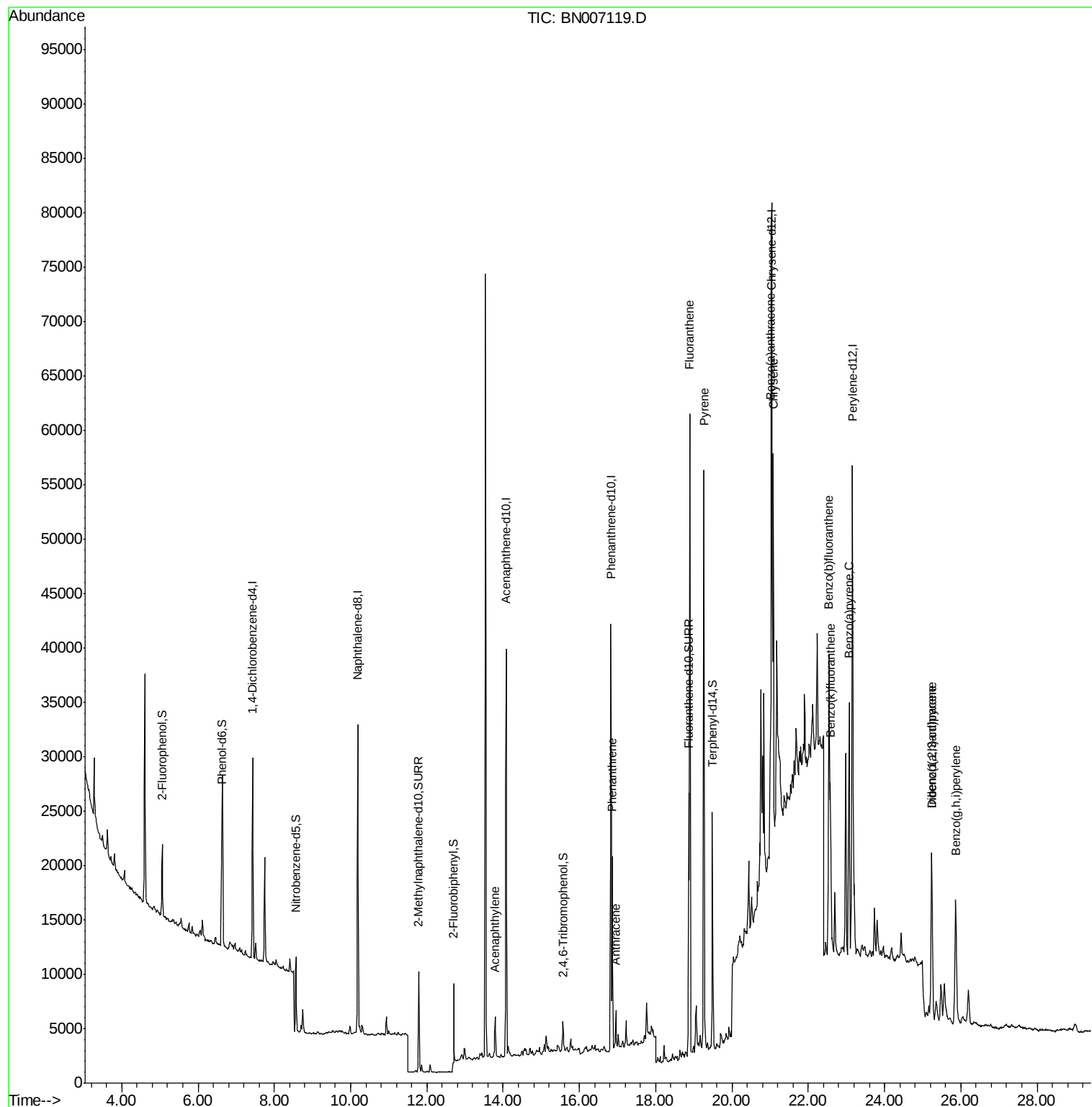
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\  
Data File : BN007119.D  
Acq On : 13 Aug 2019 07:31  
Operator : HP/JU  
Sample : K4240-01  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

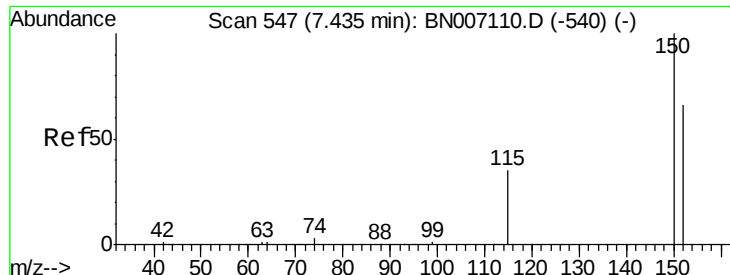
Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

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8/14/2019 2:52:39 AM

Quant Time: Aug 13 08:48:43 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

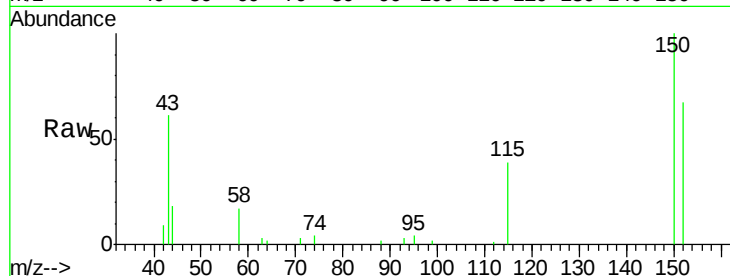
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.43 min Scan# 547  
Delta R.T. -0.00 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.8 | 121.7 | 182.5 |
| 115     | 57.8  | 46.2  | 69.4  |

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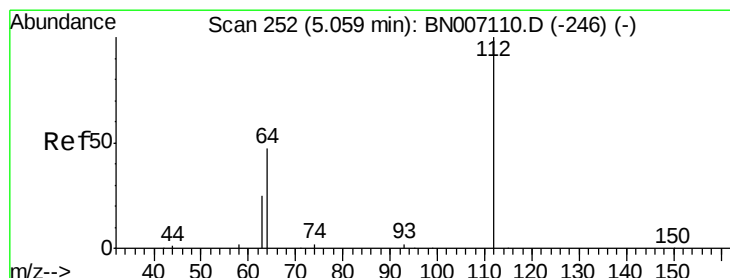
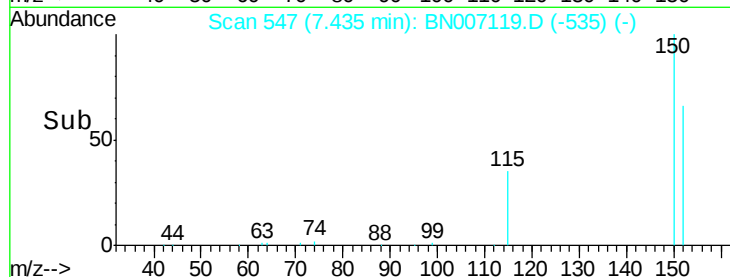
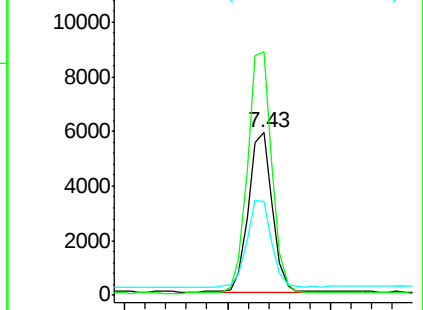


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

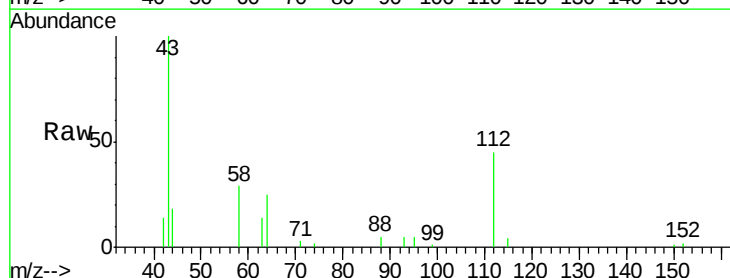
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol  
Concen: 0.231 ng  
RT: 5.06 min Scan# 252  
Delta R.T. -0.00 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.7  | 42.6  | 63.8  |
| 63      | 27.3  | 22.2  | 33.2  |

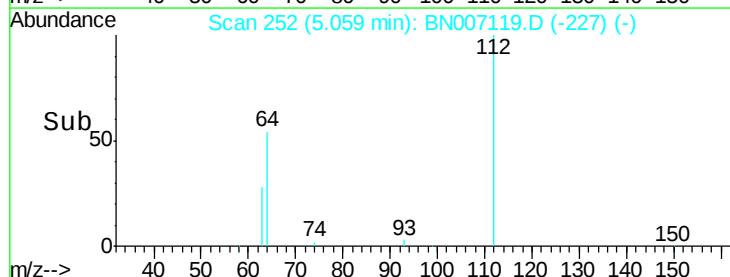
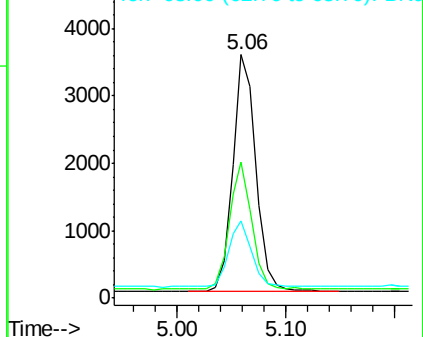


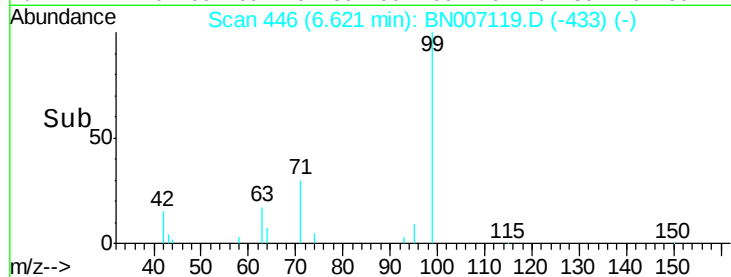
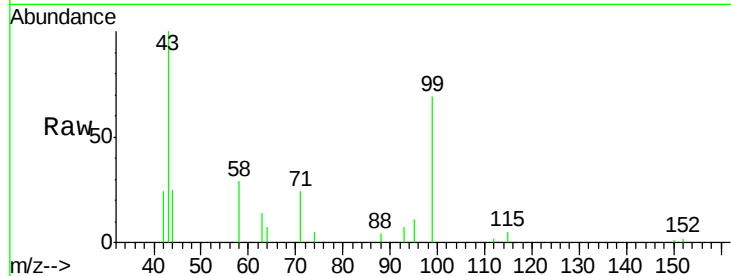
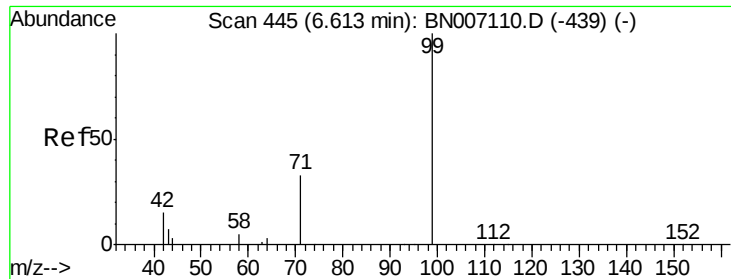
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.255 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 7176  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 31.3  | 15.8  | 23.6# |
| 71        | 34.8  | 27.0  | 40.4  |

Instrument :

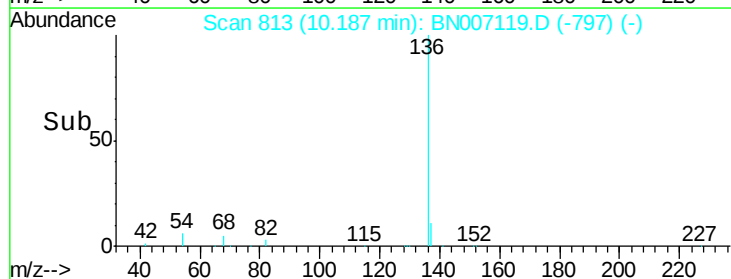
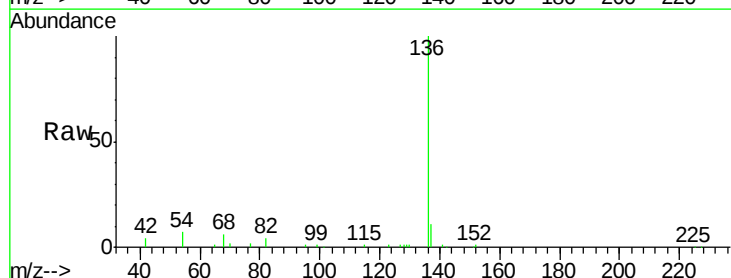
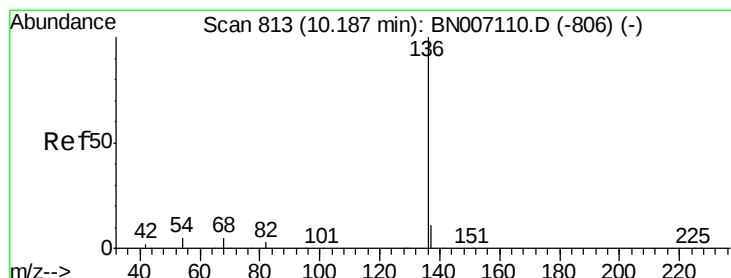
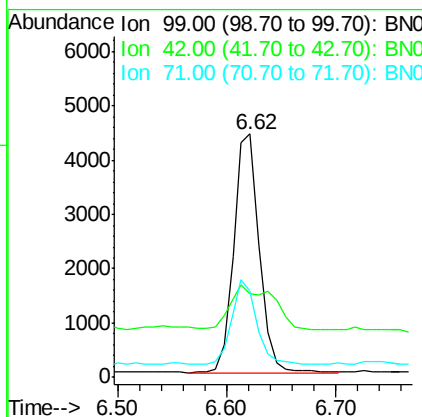
BNA\_N

ClientSampleId :

PST-035-B247-080619

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#6

Naphthalene-d8

Concen: 0.400 ng

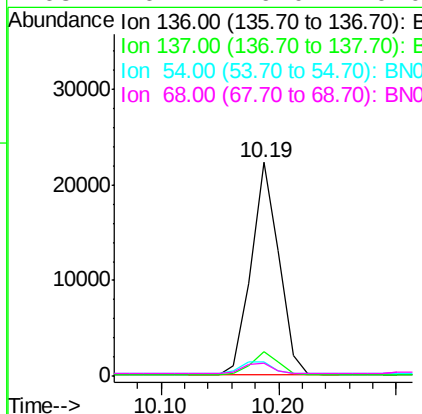
RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 36749 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.2  | 9.4   | 14.0  |
| 54        | 6.6   | 6.6   | 9.8   |
| 68        | 6.1   | 6.0   | 9.0   |





#7

Nitrobenzene-d5

Concen: 0.193 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA\_N

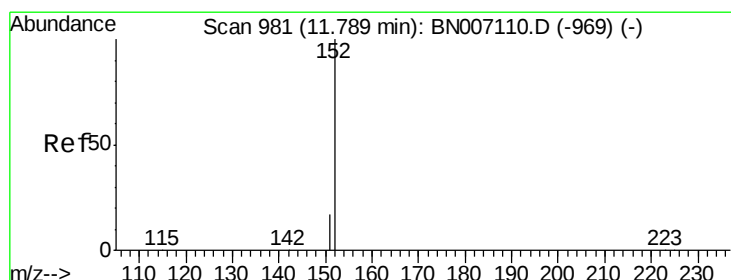
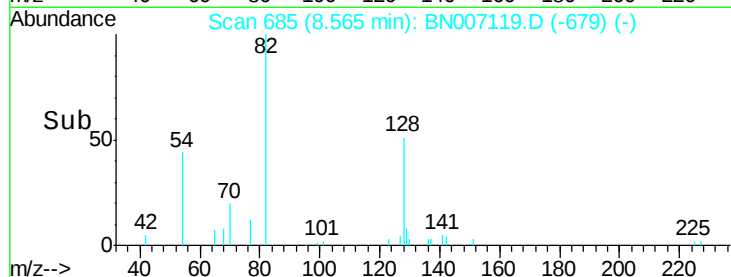
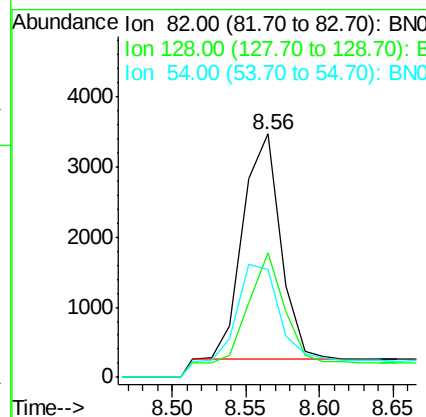
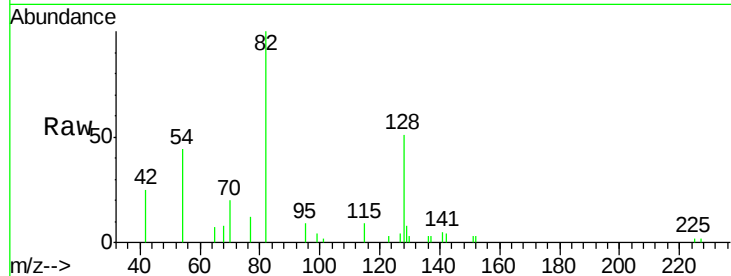
ClientSampleId :

PST-035-B247-080619

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 82    | Resp: | 5728  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 51.0  | 34.6  | 51.8  |
| 54       | 44.3  | 36.2  | 54.4  |

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#10

2-Methylnaphthalene-d10

Concen: 0.182 ng

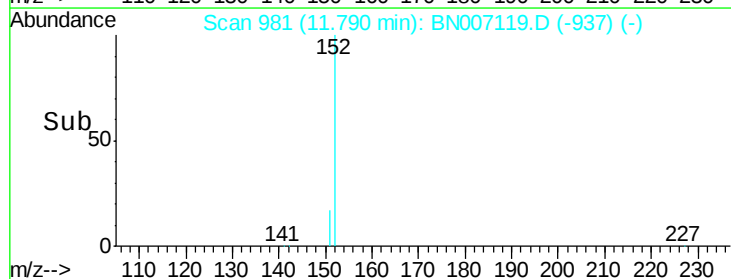
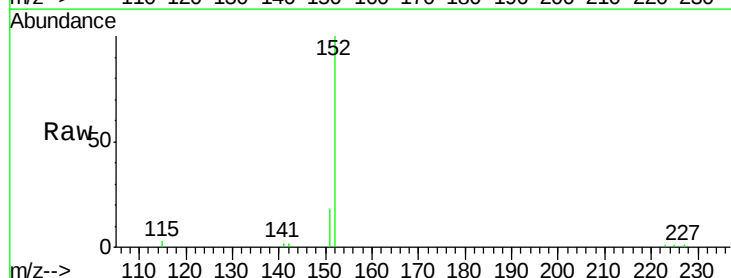
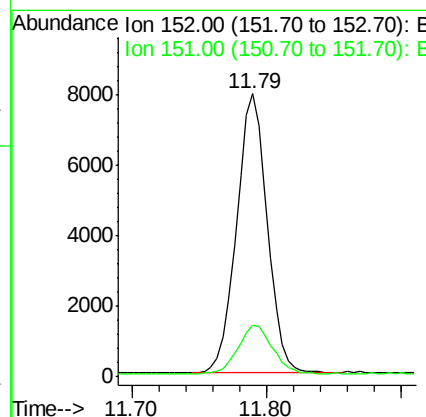
RT: 11.79 min Scan# 981

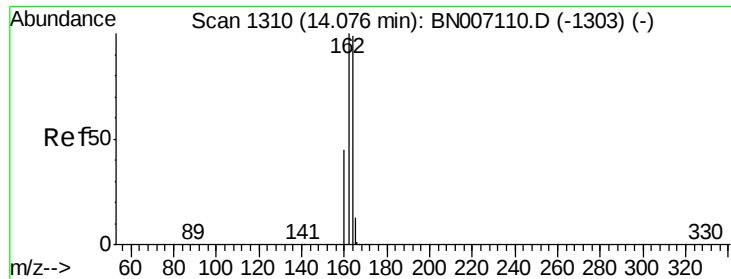
Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 12446 |
| 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: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA\_N

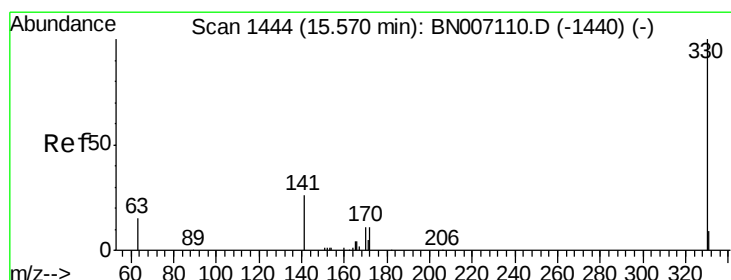
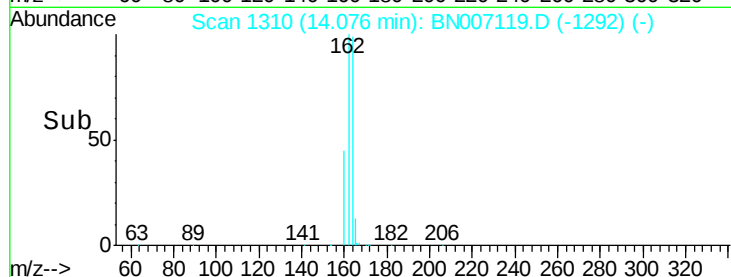
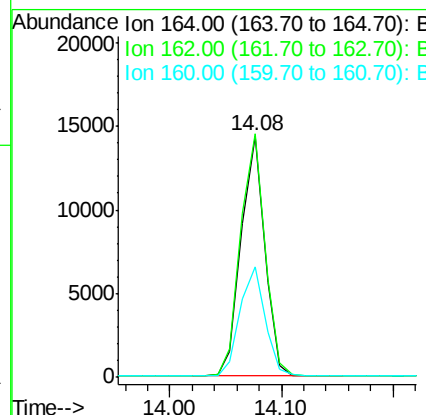
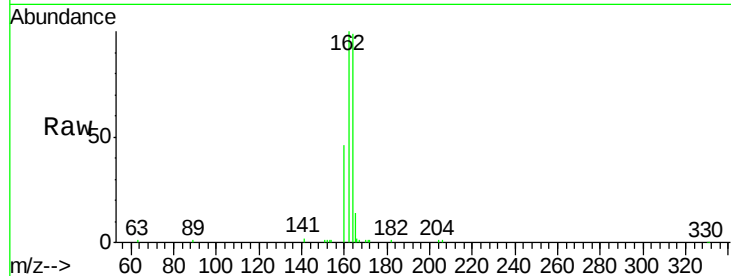
ClientSampleId :

PST-035-B247-080619

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 20967 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 100.8 | 82.2  | 123.4 |
| 160       | 46.0  | 38.3  | 57.5  |

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#13

2,4,6-Tribromophenol

Concen: 0.164 ng

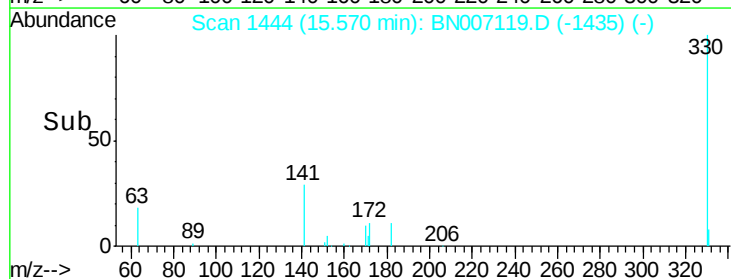
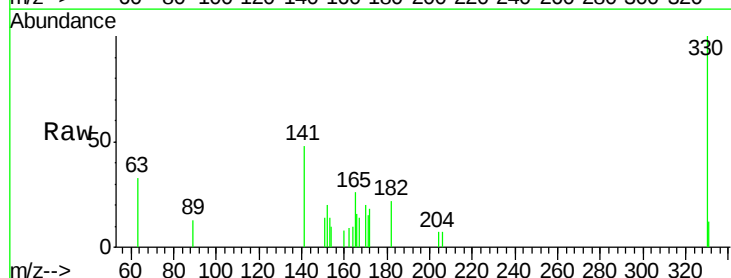
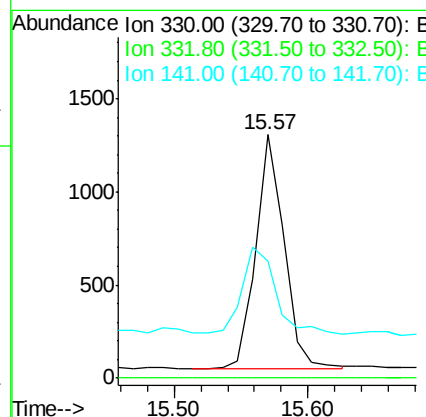
RT: 15.57 min Scan# 1444

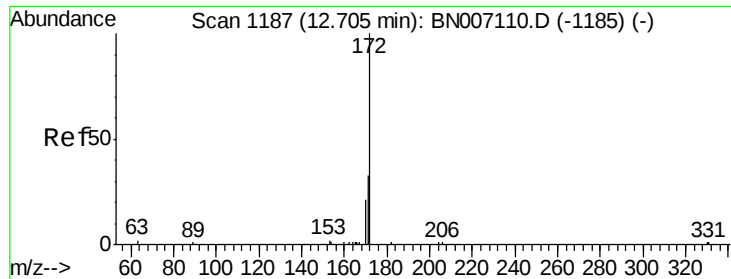
Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 330   | Resp: | 1848 |
| Ion Ratio | Lower | Upper |      |
| 330       | 100   |       |      |
| 332       | 0.0   | 0.0   | 0.0  |
| 141       | 43.7  | 33.6  | 50.4 |





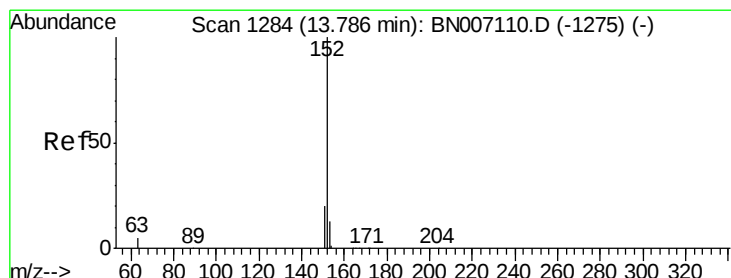
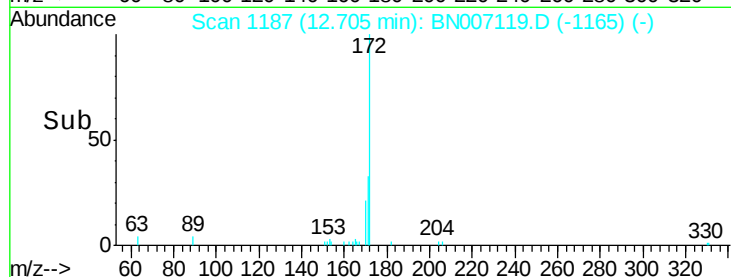
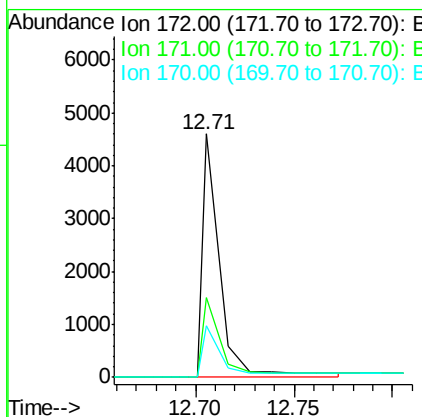
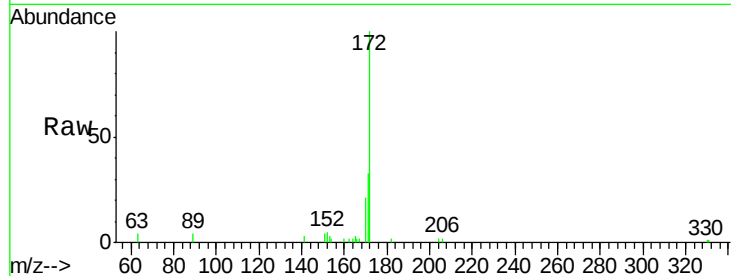
#14  
2-Fluorobiphenyl  
Concen: 0.105 ng  
RT: 12.71 min Scan# 1187  
Delta R.T. -0.00 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 172   | Resp: | 3198 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 32.6  | 26.3  | 39.5 |
| 170       | 21.0  | 17.0  | 25.4 |

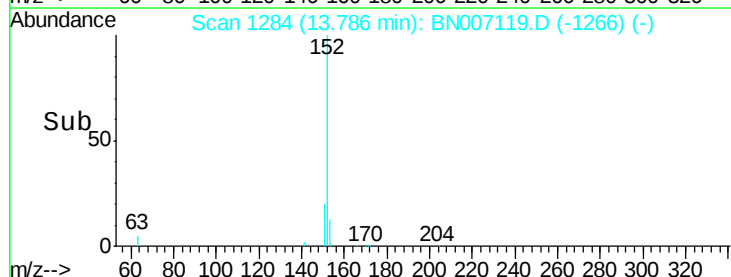
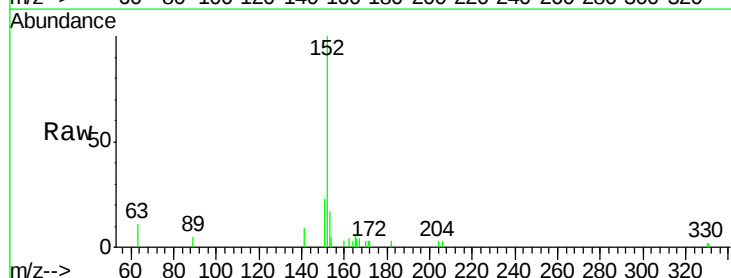
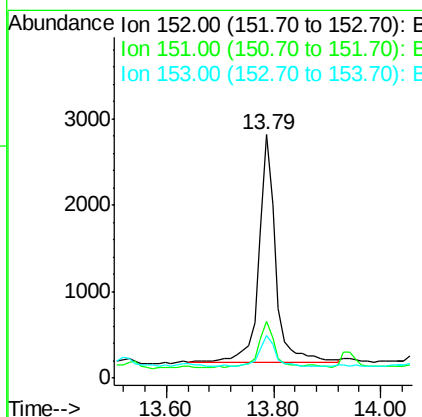
Manual Integrations  
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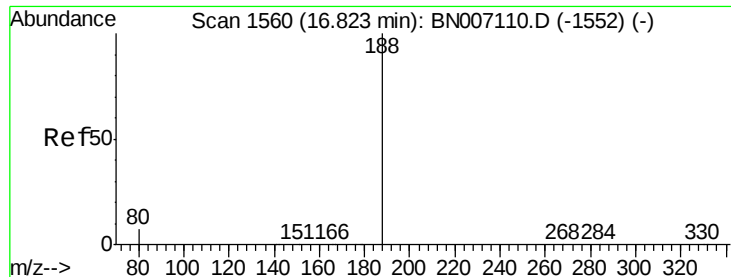
mohammad  
8/14/2019 2:52:39 AM



#15  
Acenaphthylene  
Concen: 0.052 ng  
RT: 13.79 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5751 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.6  | 15.8  | 23.6 |
| 153       | 13.3  | 10.4  | 15.6 |





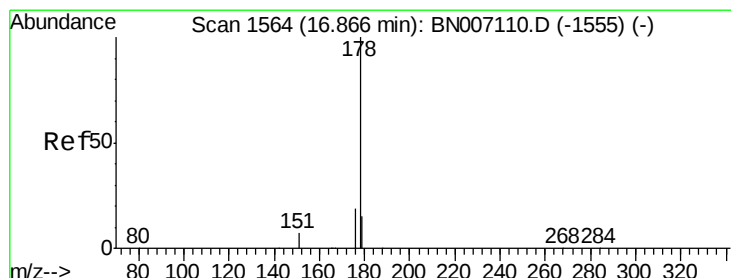
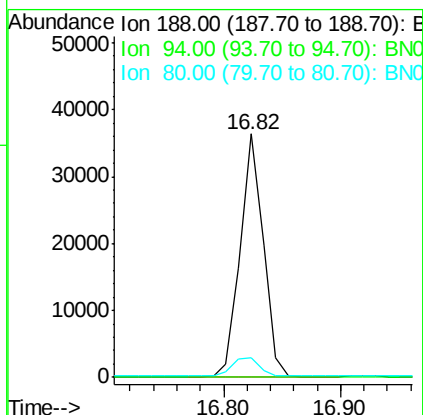
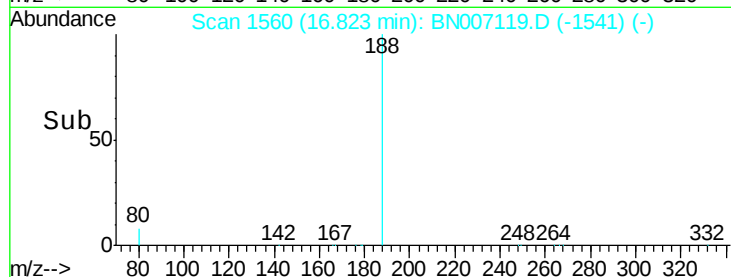
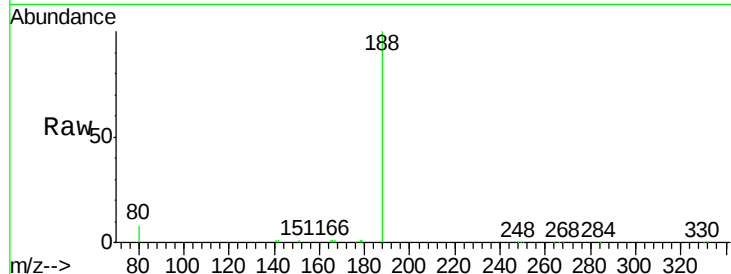
#18  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.82 min Scan# 1560  
Delta R.T. -0.00 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 188     | 100   | 49444 |       |       |
| 94      | 0.0   | 0.0   | 0.0   | 0.0   |
| 80      | 8.2   | 7.8   | 11.6  |       |

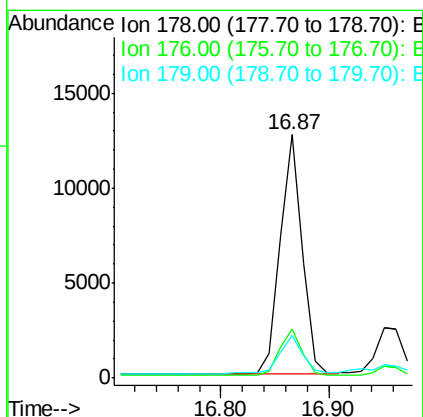
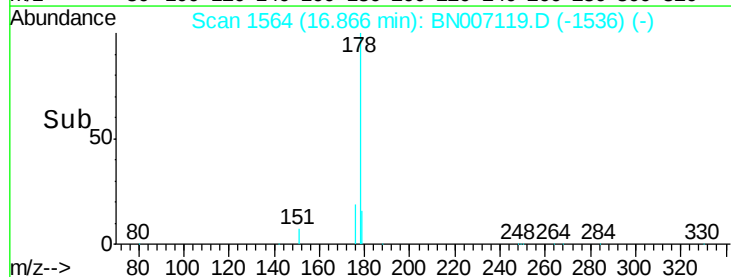
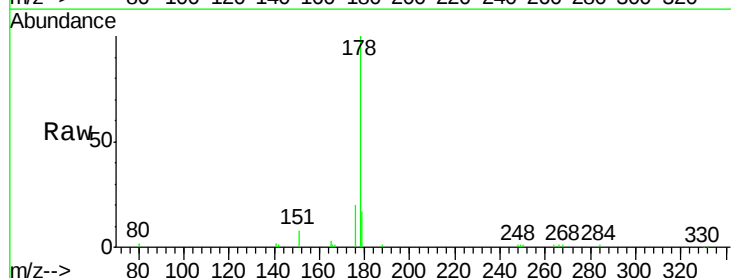
Manual Integrations  
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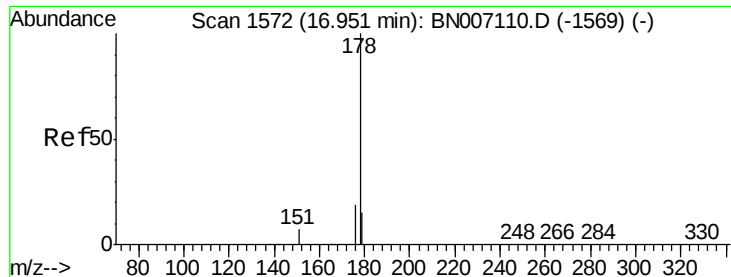
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#22  
Phenanthrene  
Concen: 0.120 ng  
RT: 16.87 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 17796 |       |       |
| 176     | 19.1  | 15.2  | 22.8  |       |
| 179     | 16.8  | 12.3  | 18.5  |       |





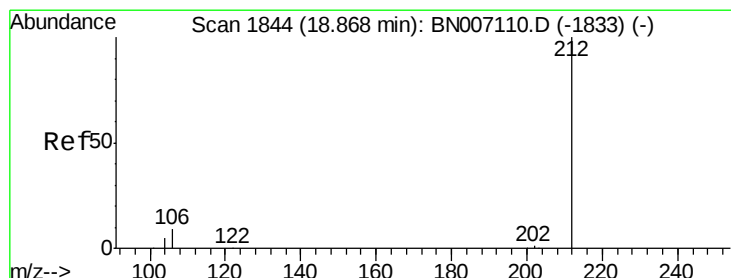
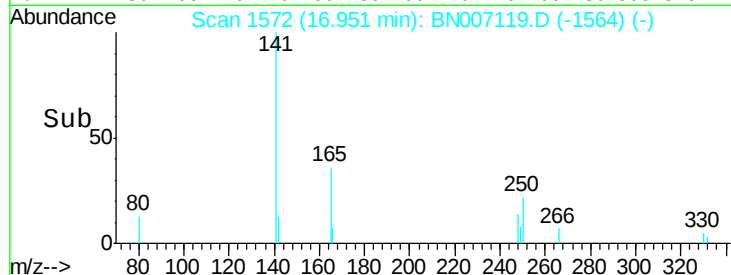
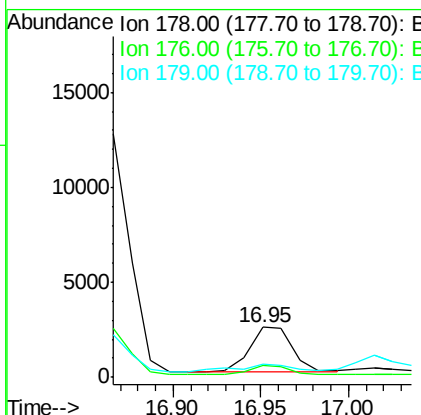
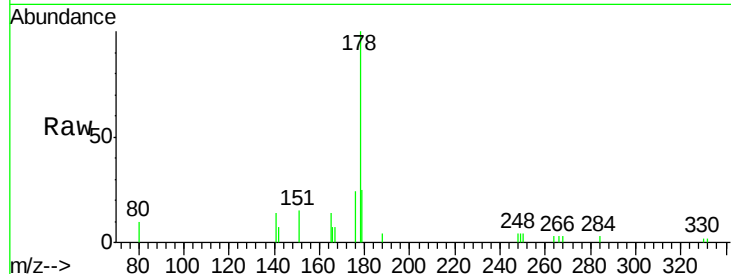
#23  
 Anthracene  
 Concen: 0.030 ng  
 RT: 16.95 min Scan# 1572  
 Delta R.T. -0.01 min  
 Lab File: BN007119.D  
 Acq: 13 Aug 2019 07:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 14.6  | 21.8  |
| 179     | 22.8  | 12.5  | 18.7  |

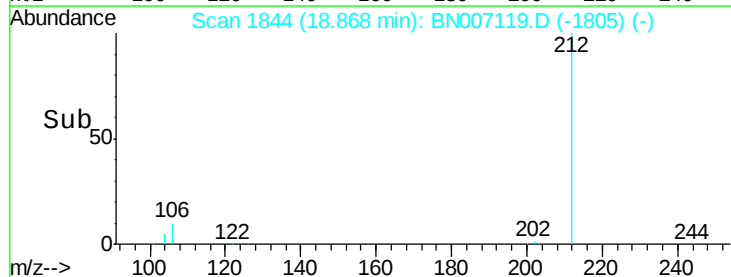
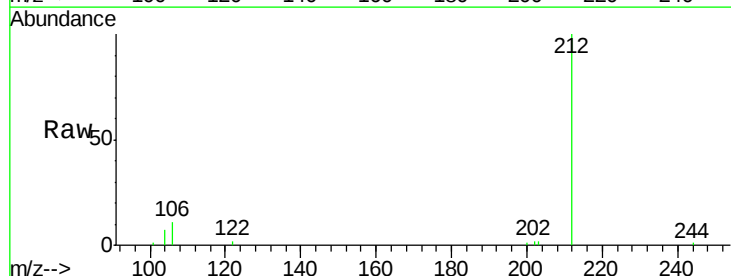
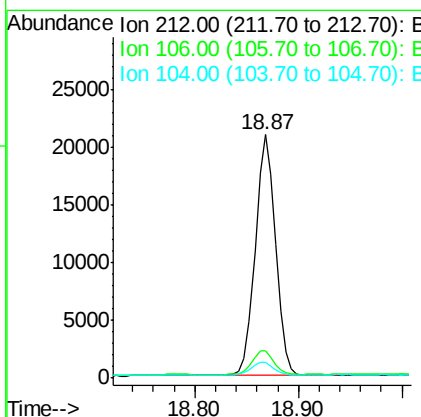
Manual Integrations  
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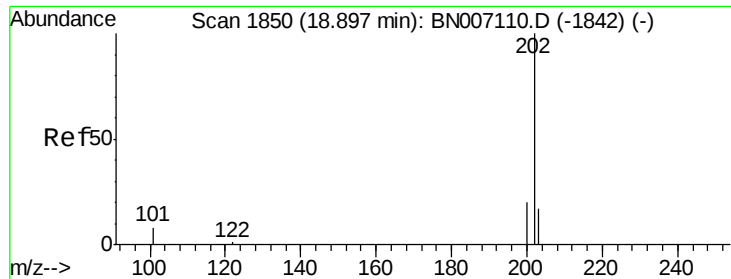
mohammad  
 8/14/2019 2:52:39 AM



#24  
 Fluoranthene-d10  
 Concen: 0.159 ng  
 RT: 18.87 min Scan# 1844  
 Delta R.T. -0.01 min  
 Lab File: BN007119.D  
 Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 10.6  | 8.2   | 12.2  |
| 104     | 5.9   | 4.5   | 6.7   |





#25

Fluoranthene

Concen: 0.274 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA\_N

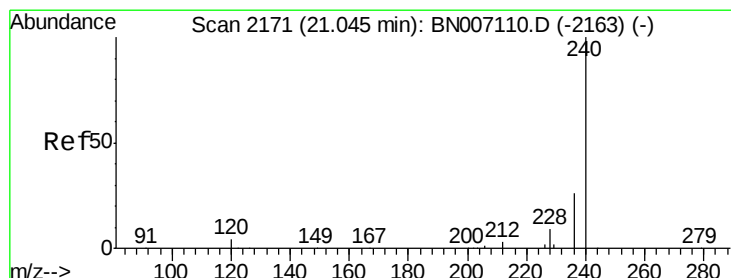
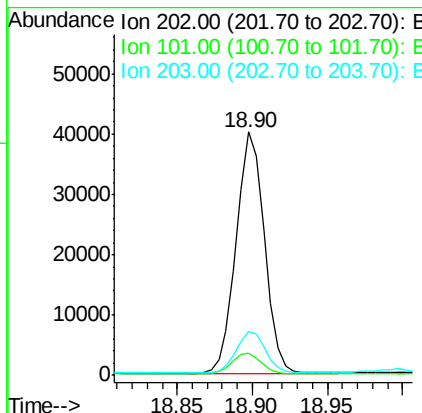
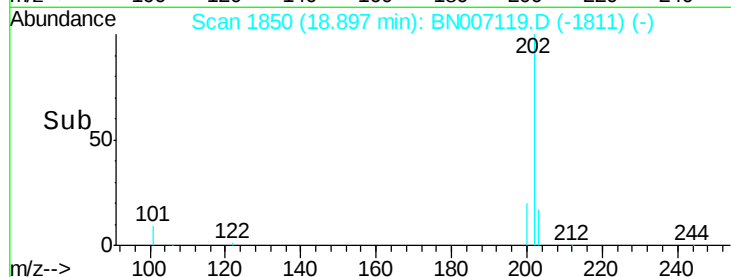
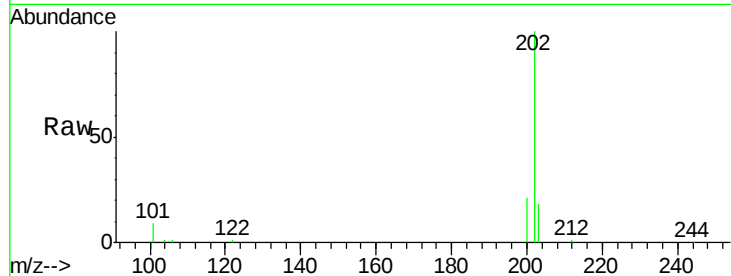
ClientSampleId :

PST-035-B247-080619

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 52008 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.1   | 7.0   | 10.4  |
| 203       | 17.4  | 13.8  | 20.8  |

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#26

Chrysene-d12

Concen: 0.400 ng

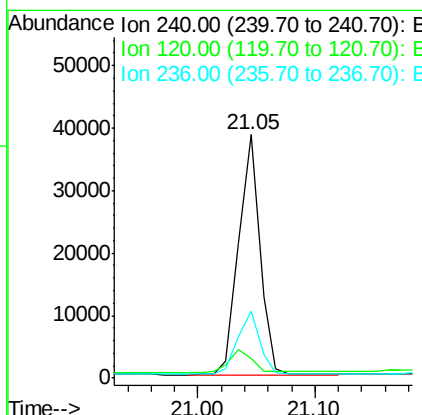
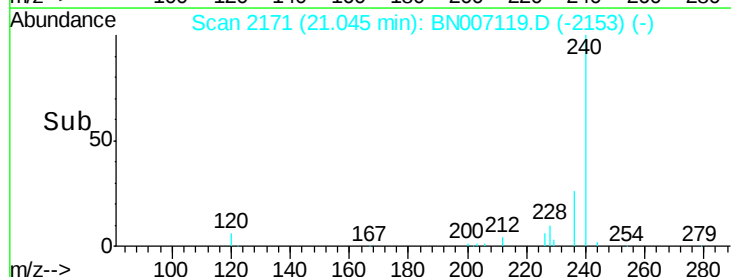
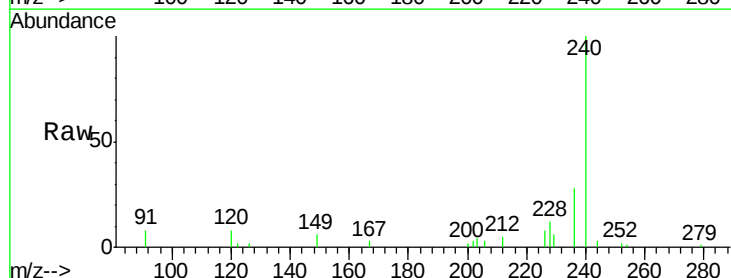
RT: 21.05 min Scan# 2171

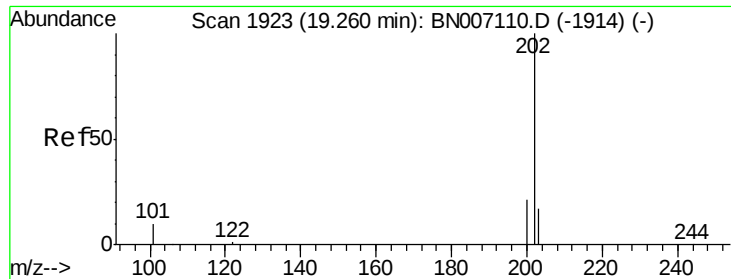
Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 48110 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 7.9   | 4.0   | 6.0#  |
| 236       | 27.6  | 21.3  | 31.9  |





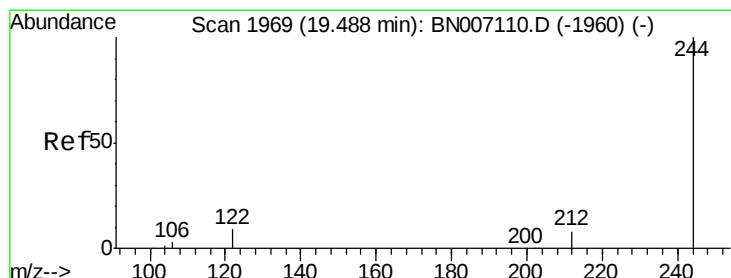
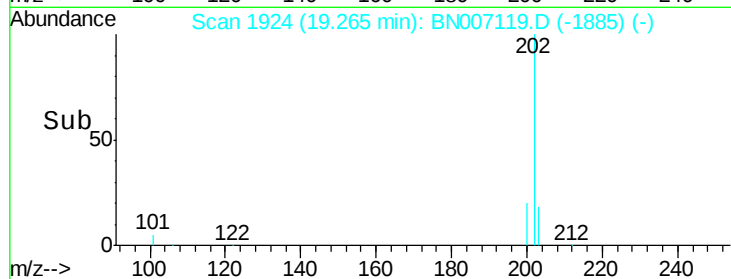
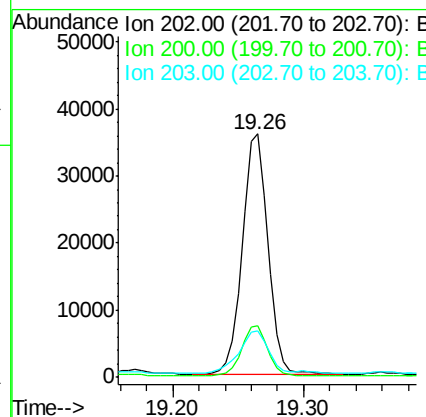
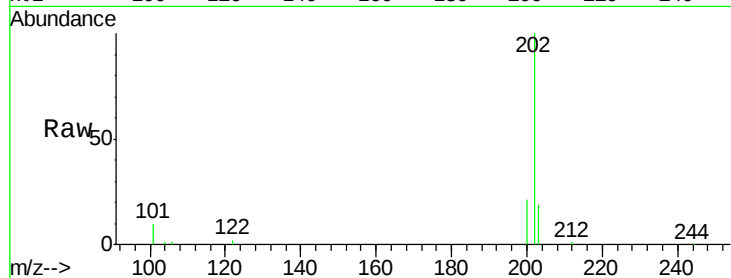
#27  
Pvrene  
Concen: 0.293 ng  
RT: 19.26 min Scan# 1924  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.9  | 16.6       | 24.8  |
| 203     | 21.4  | 14.0       | 21.0  |

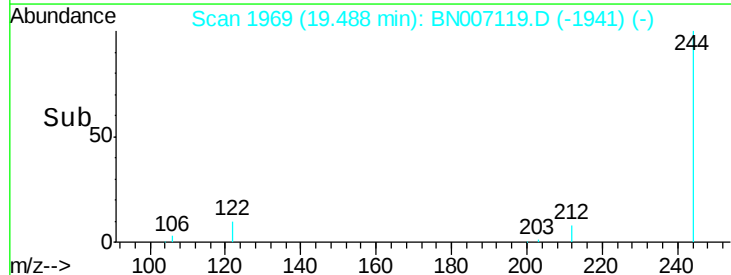
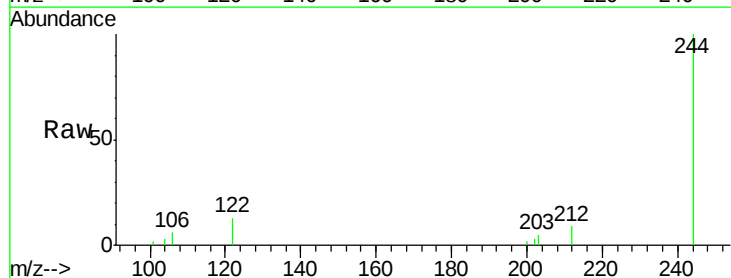
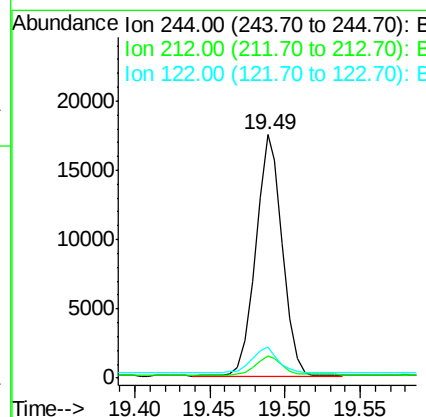
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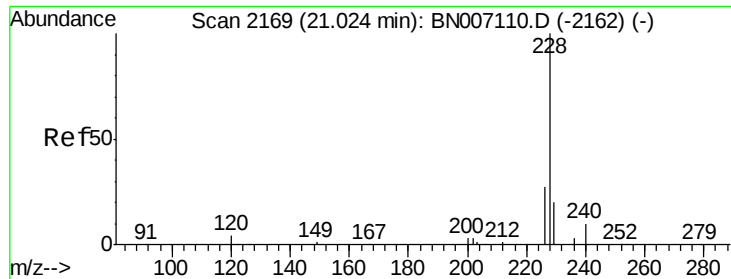
mohammad  
8/14/2019 2:52:39 AM



#28  
Terphenyl-d14  
Concen: 0.162 ng  
RT: 19.49 min Scan# 1969  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 9.1   | 6.2        | 9.2   |
| 122     | 12.6  | 7.4        | 11.2  |





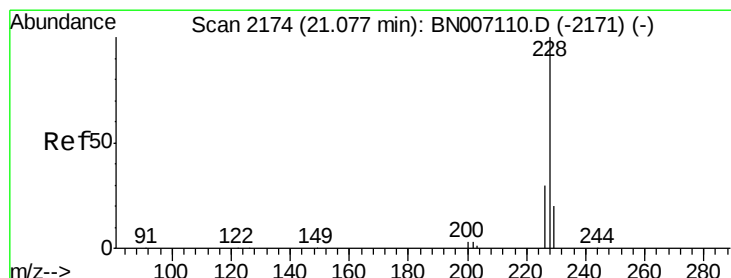
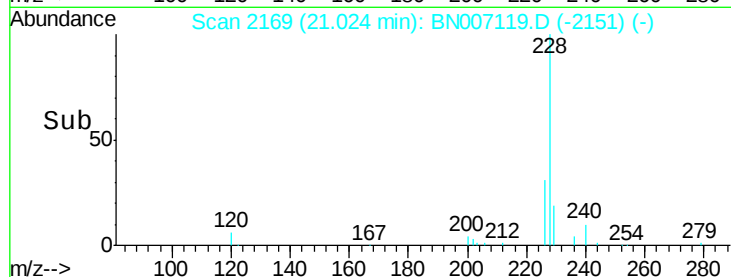
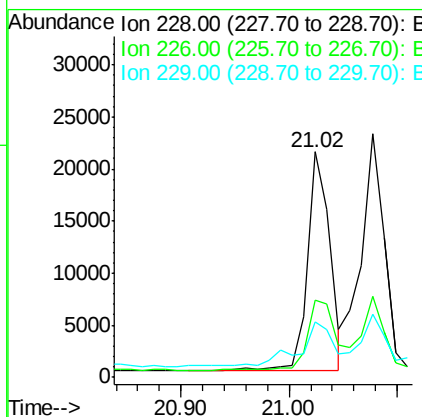
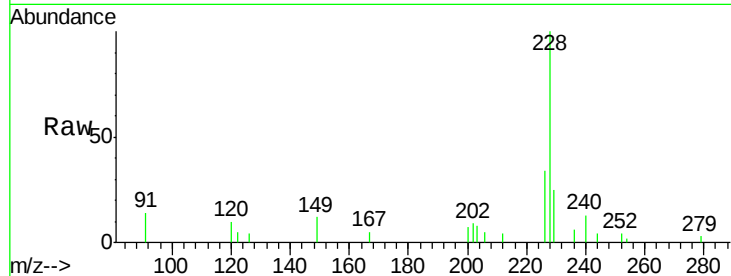
#29  
Benzo(a)anthracene  
Concen: 0.171 ng  
RT: 21.02 min Scan# 2169  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.1  | 21.8  | 32.6# |
| 229     | 24.5  | 15.6  | 23.4# |

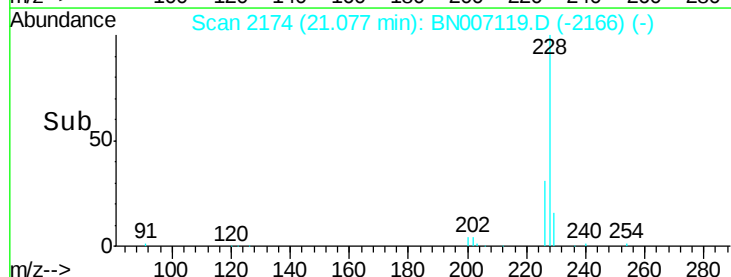
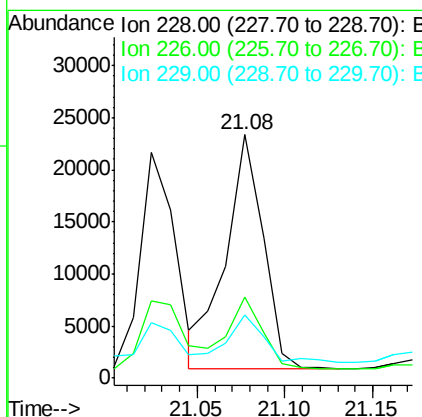
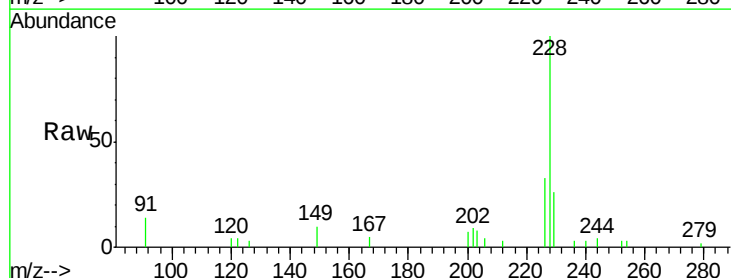
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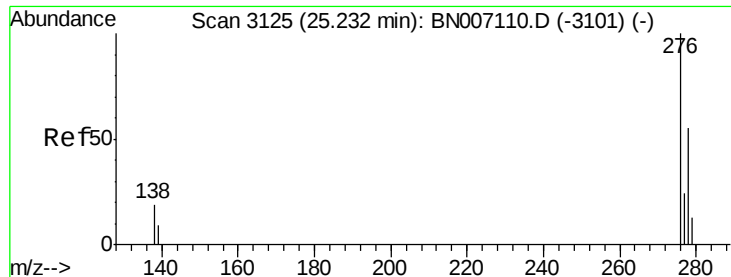
mohammad  
8/14/2019 2:52:39 AM



#30  
Chrysene  
Concen: 0.194 ng  
RT: 21.08 min Scan# 2174  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.0  | 23.8  | 35.6  |
| 229     | 26.0  | 15.7  | 23.5# |





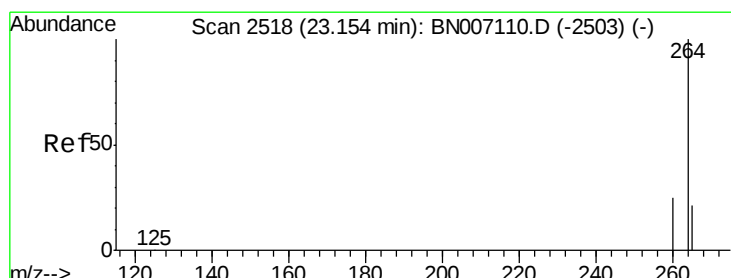
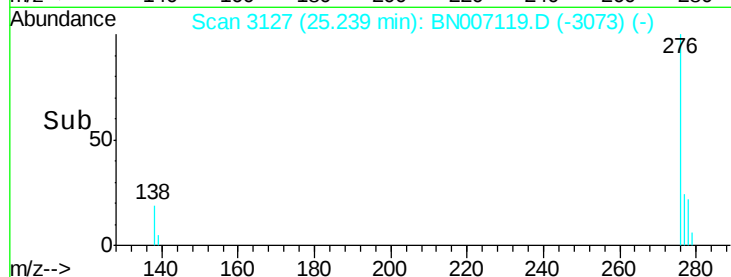
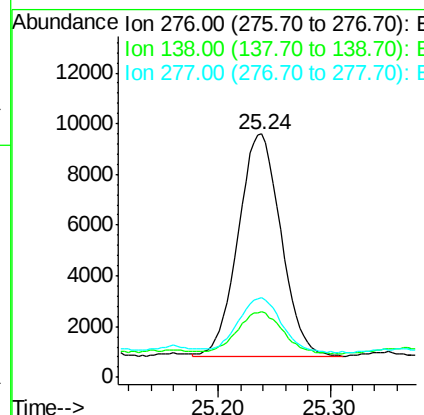
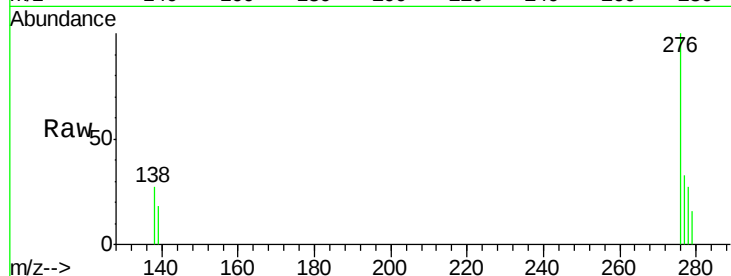
#31  
Indeno(1,2,3-cd)pyrene  
Concen: 0.123 ng  
RT: 25.24 min Scan# 3127  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.3  | 16.0  | 24.0  |
| 277     | 25.1  | 19.9  | 29.9  |

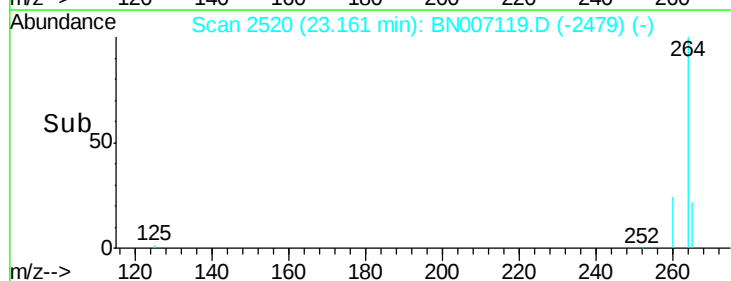
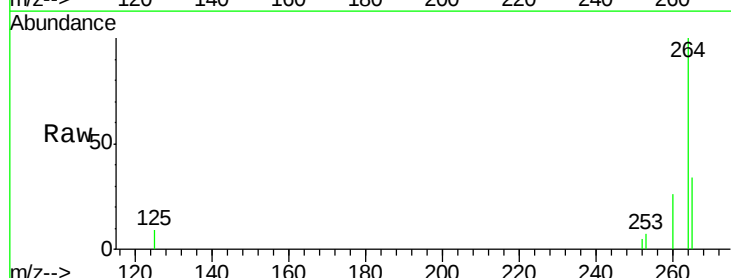
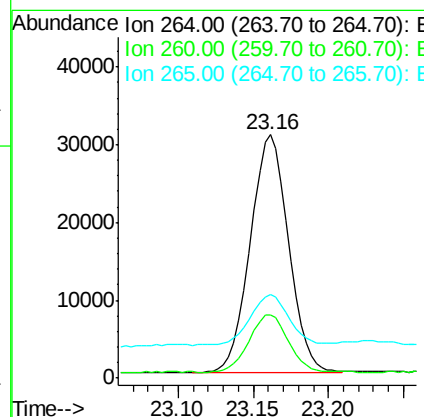
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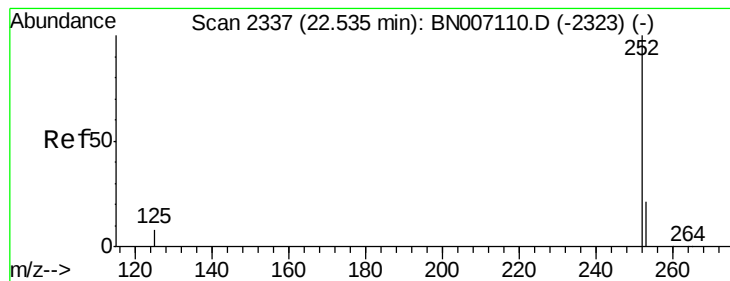
mohammad  
8/14/2019 2:52:39 AM



#32  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.16 min Scan# 2520  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.2  | 19.8  | 29.8  |
| 265     | 34.5  | 26.2  | 39.4  |





#33

Benzo(b)fluoranthene

Concen: 0.249 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA\_N

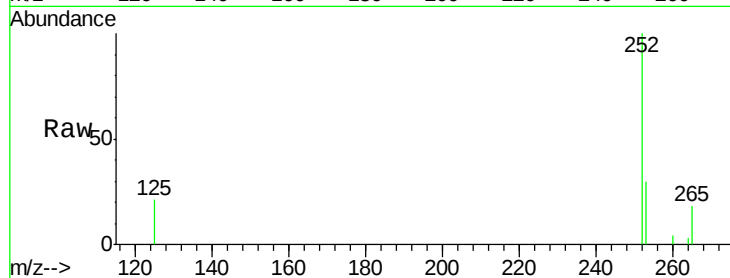
ClientSampleId :

PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.4  | 18.2  | 27.2# |
| 125     | 20.7  | 7.4   | 11.0# |

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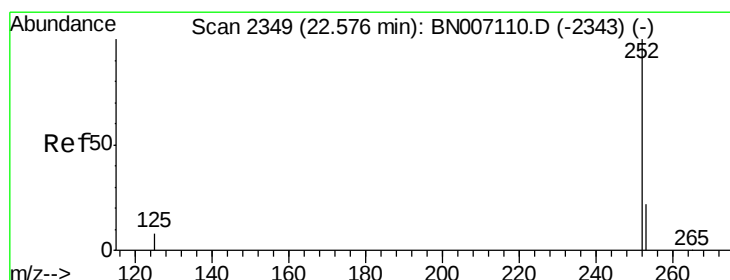
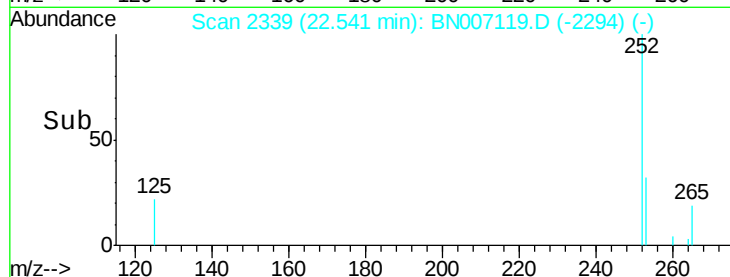
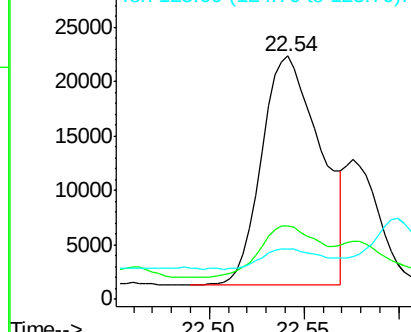


Abundance

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



#34

Benzo(k)fluoranthene

Concen: 0.080 ng m

RT: 22.58 min Scan# 2349

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

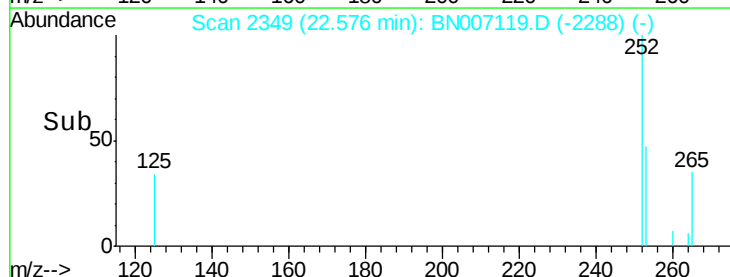
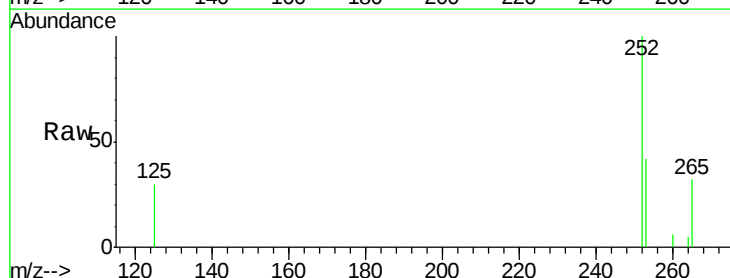
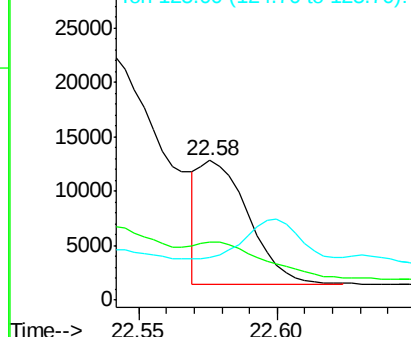
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 42.0  | 18.1  | 27.1# |
| 125     | 30.4  | 7.4   | 11.0# |

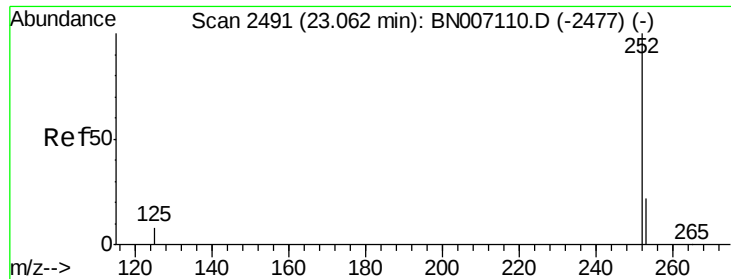
Abundance

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





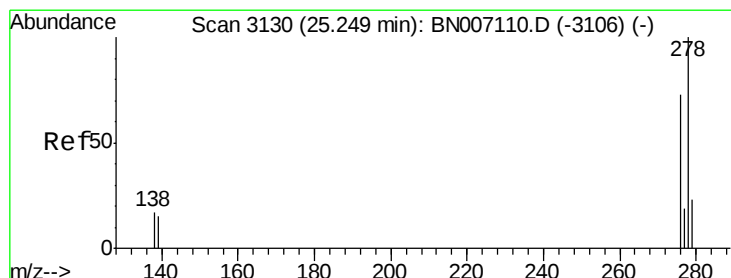
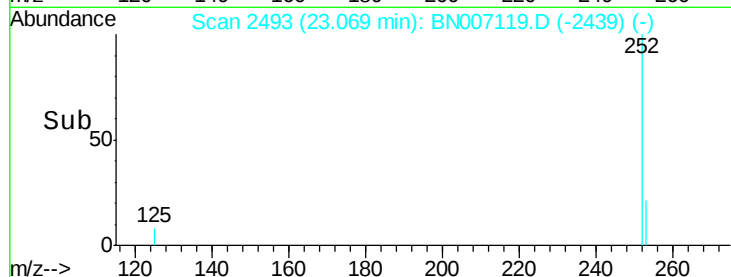
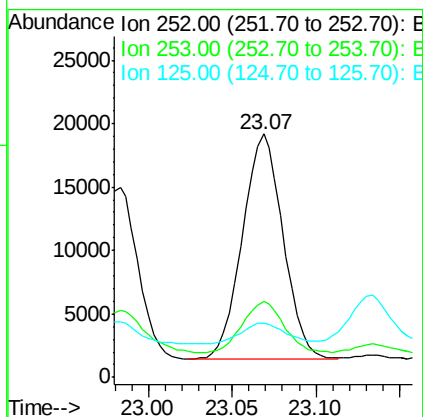
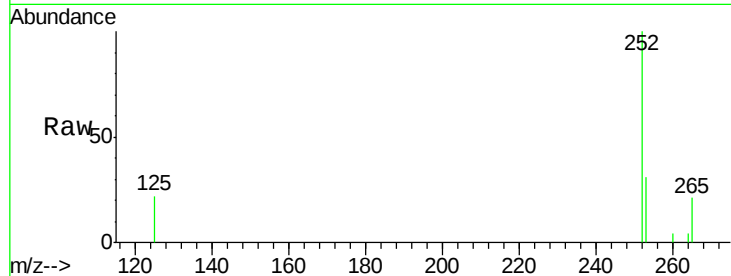
#35  
Benzo(a)pyrene  
Concen: 0.183 ng  
RT: 23.07 min Scan# 2493  
Delta R.T. -0.01 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.0  | 18.5  | 27.7# |
| 125     | 22.4  | 8.2   | 12.4# |

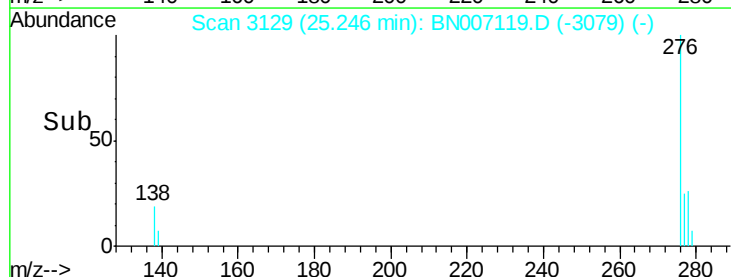
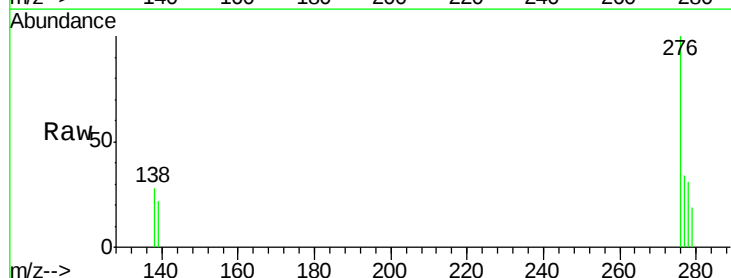
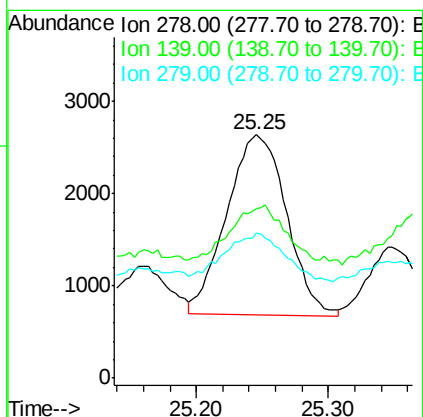
Manual Integrations  
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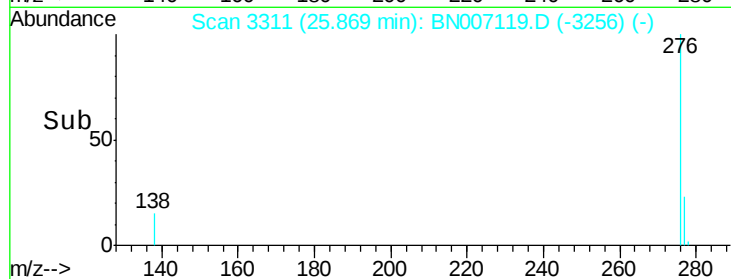
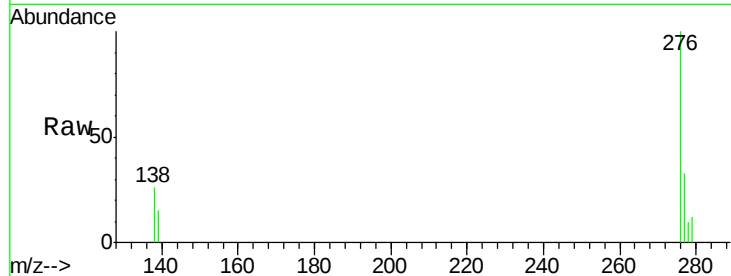
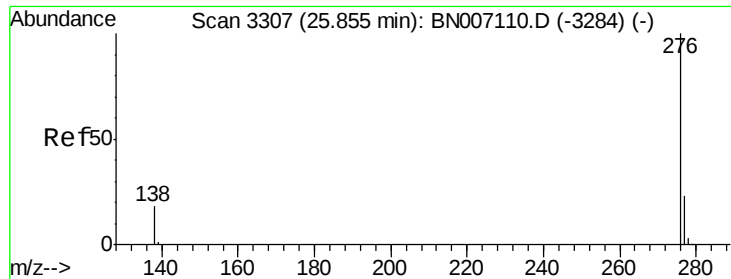
mohammad  
8/14/2019 2:52:39 AM



#36  
Dibenzo(a,h)anthracene  
Concen: 0.037 ng  
RT: 25.25 min Scan# 3129  
Delta R.T. -0.03 min  
Lab File: BN007119.D  
Acq: 13 Aug 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 69.7  | 11.3  | 16.9# |
| 279     | 59.7  | 19.3  | 28.9# |





#37  
 Benzo(a,h,i)perylene  
 Concen: 0.137 ng  
 RT: 25.87 min Scan# 3311  
 Delta R.T. -0.01 min  
 Lab File: BN007119.D  
 Acq: 13 Aug 2019 07:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-035-B247-080619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 32.8  | 19.8  | 29.8# |
| 138     | 26.0  | 14.6  | 22.0# |

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