

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100519\  
 Data File : BN008047.D  
 Acq On : 06 Oct 2019 06:12  
 Operator : JU  
 Sample : PB123460BS  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB123460BS

Manual Integrations  
 APPROVED

mohammad  
 10/7/2019 4:40:35 PM

Quant Time: Oct 07 07:32:37 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 03 18:39:49 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.68  | 152  | 3607     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.44 | 136  | 14496    | 0.40 | ng    | -0.03    |
| 13) Acenaphthene-d10      | 14.30 | 164  | 8997     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.05 | 188  | 19061    | 0.40 | ng    | -0.02    |
| 27) Chrysene-d12          | 21.25 | 240  | 20527    | 0.40 | ng    | -0.02    |
| 34) Perylene-d12          | 23.46 | 264  | 22571    | 0.40 | ng    | -0.03    |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.30  | 112 | 2926  | 0.24 | ng | -0.02 |
| 5) Phenol-d6                | 6.87  | 99  | 3437  | 0.22 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.82  | 82  | 3159  | 0.25 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.04 | 152 | 7056  | 0.29 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol    | 15.81 | 330 | 1256  | 0.26 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.92 | 172 | 8872  | 0.24 | ng | -0.02 |
| 25) Fluoranthene-d10        | 19.09 | 212 | 17429 | 0.27 | ng | -0.02 |
| 29) Terphenyl-d14           | 19.69 | 244 | 15334 | 0.30 | ng | -0.02 |

#### Target Compounds

|                                |       |     |        |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.26  | 88  | 767m   | 0.191 | ng     |
| 6) bis(2-Chloroethyl)ether     | 7.11  | 93  | 2957   | 0.290 | ng     |
| 9) Naphthalene                 | 10.49 | 128 | 10607  | 0.261 | ng     |
| 10) Hexachlorobutadiene        | 10.79 | 225 | 2320   | 0.271 | ng     |
| 12) 2-Methylnaphthalene        | 12.11 | 142 | 7292   | 0.265 | ng     |
| 16) Acenaphthylene             | 14.02 | 152 | 12647  | 0.265 | ng     |
| 17) Acenaphthene               | 14.37 | 154 | 7064   | 0.230 | ng     |
| 18) Fluorene                   | 15.36 | 166 | 9552   | 0.242 | ng     |
| 20) 4-Bromophenyl-phenylether  | 16.25 | 248 | 2902   | 0.251 | ng     |
| 21) Hexachlorobenzene          | 16.37 | 284 | 3420   | 0.270 | ng     |
| 22) Pentachlorophenol          | 16.72 | 266 | 2377   | 0.510 | ng     |
| 23) Phenanthrene               | 17.09 | 178 | 14860  | 0.250 | ng     |
| 24) Anthracene                 | 17.19 | 178 | 14384  | 0.268 | ng     |
| 26) Fluoranthene               | 19.12 | 202 | 19472  | 0.264 | ng     |
| 28) Pyrene                     | 19.48 | 202 | 20348  | 0.291 | ng     |
| 30) Benzo(a)anthracene         | 21.23 | 228 | 20145  | 0.266 | ng     |
| 31) Chrysene                   | 21.28 | 228 | 19650  | 0.267 | ng     |
| 32) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 11127m | 0.286 | ng     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.67 | 276 | 23709  | 0.257 | ng     |
| 35) Benzo(b)fluoranthene       | 22.80 | 252 | 19794  | 0.253 | ng     |
| 36) Benzo(k)fluoranthene       | 22.84 | 252 | 20503  | 0.265 | ng     |
| 37) Benzo(a)pyrene             | 23.36 | 252 | 19678  | 0.267 | ng     |
| 38) Dibenzo(a,h)anthracene     | 25.68 | 278 | 19593  | 0.260 | ng     |
| 39) Benzo(g,h,i)perylene       | 26.35 | 276 | 20212  | 0.271 | ng     |

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

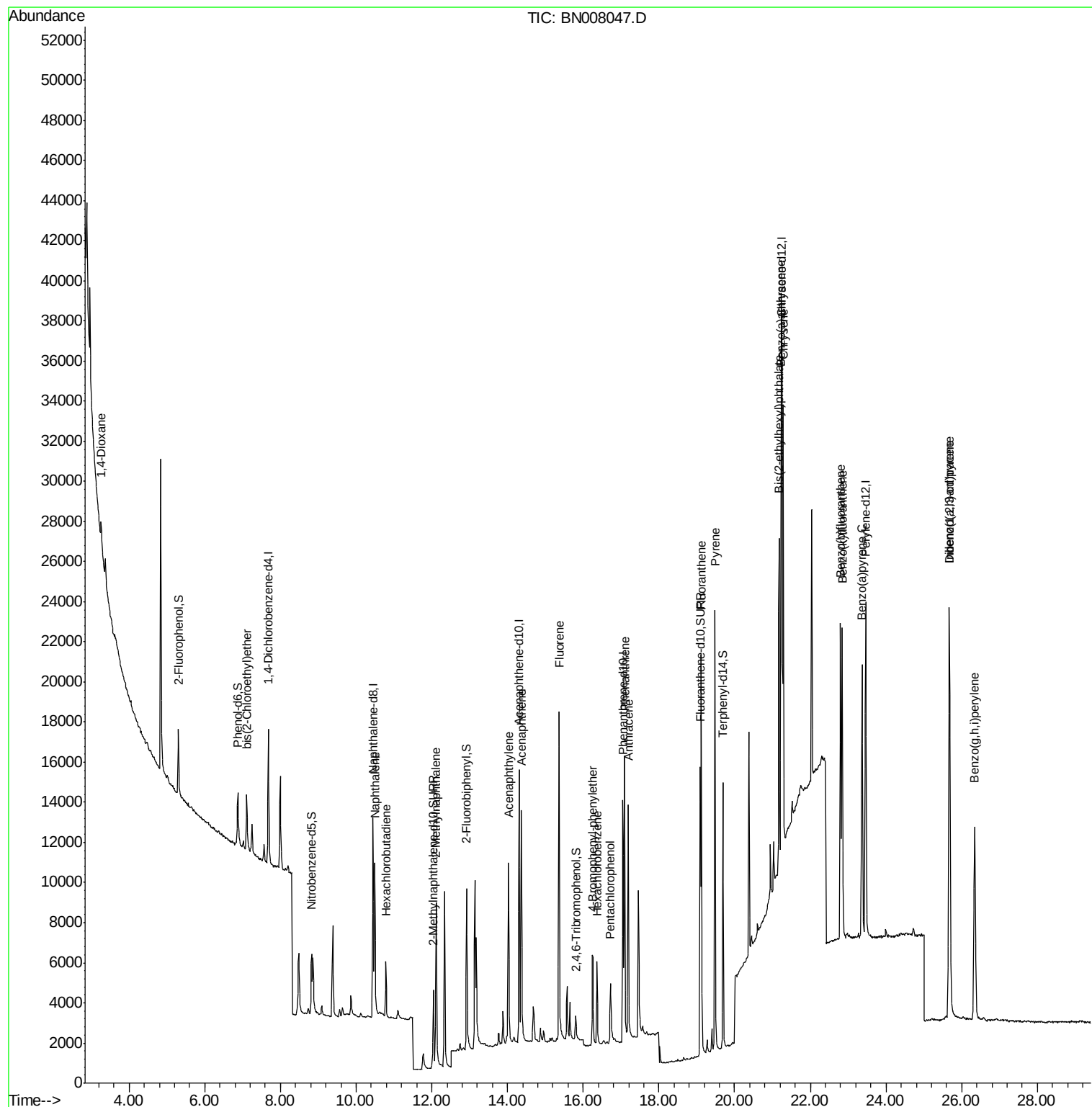
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100519\  
Data File : BN008047.D  
Acq On : 06 Oct 2019 06:12  
Operator : JU  
Sample : PB123460BS  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

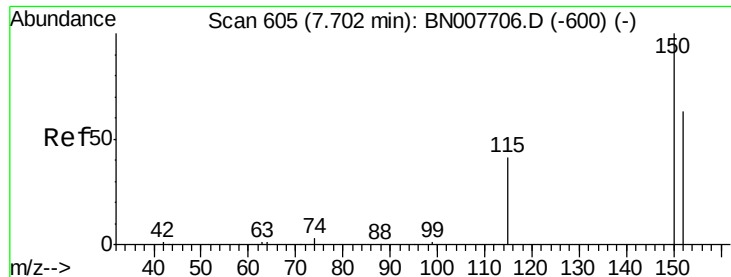
Instrument :  
BNA\_N  
ClientSampleID :  
PB123460BS

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10/7/2019 4:40:35 PM

Quant Time: Oct 07 07:32:37 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN091819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 03 18:39:49 2019  
Response via : Initial Calibration

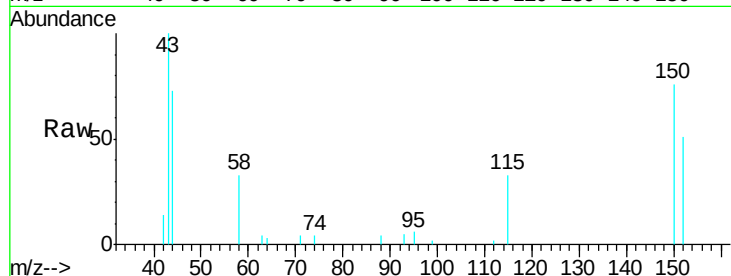




#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.68 min Scan# 602  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

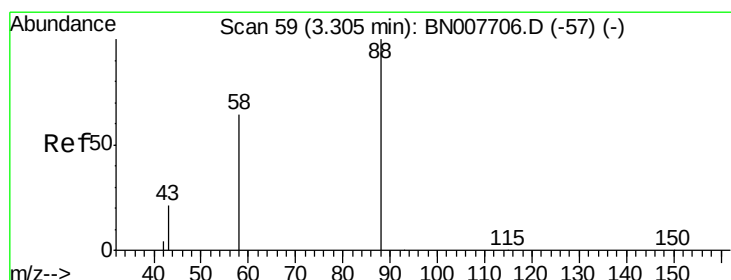
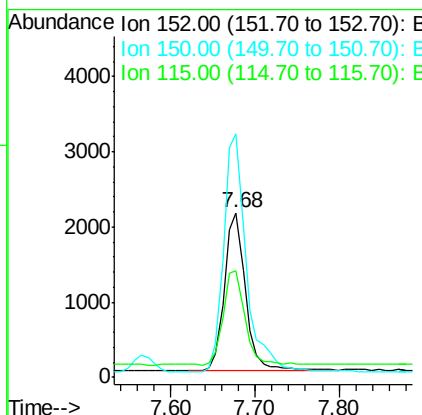
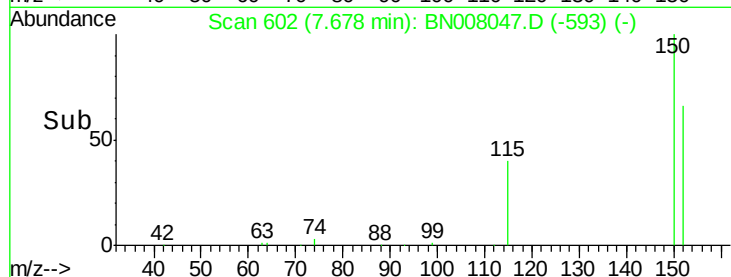
Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.2 | 125.6 | 188.4 |
| 115     | 65.2  | 53.3  | 79.9  |

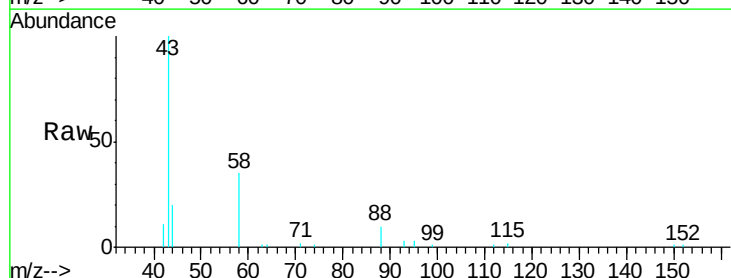
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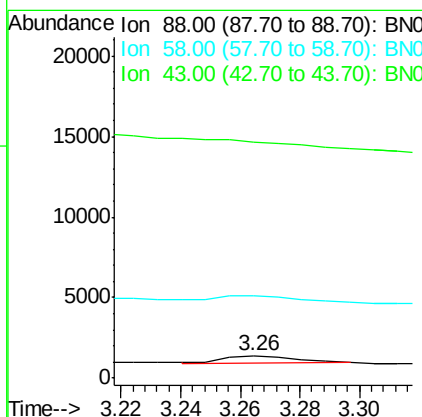
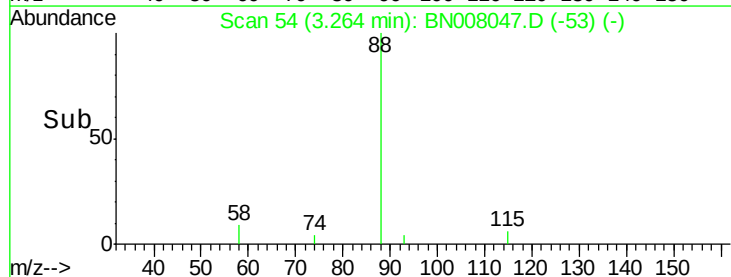


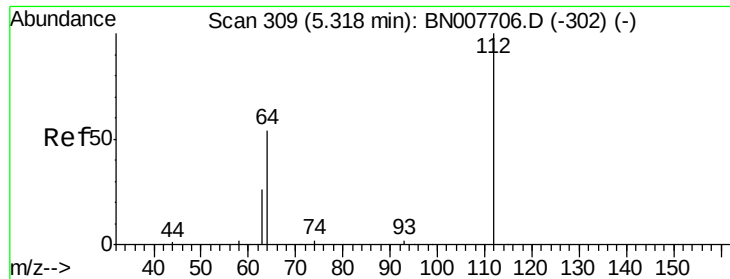
#2

1,4-Dioxane  
Concen: 0.191 ng m  
RT: 3.26 min Scan# 54  
Delta R.T. -0.04 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 0.0   | 44.6  | 66.8# |
| 43      | 0.0   | 14.4  | 21.6# |





#4

2-Fluorophenol

Concen: 0.236 ng

RT: 5.30 min Scan# 307

Delta R.T. -0.02 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

Instrument :

BNA\_N

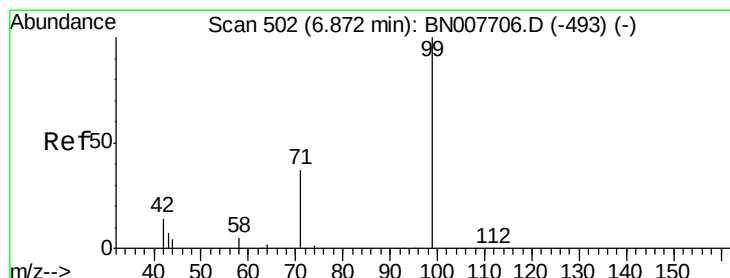
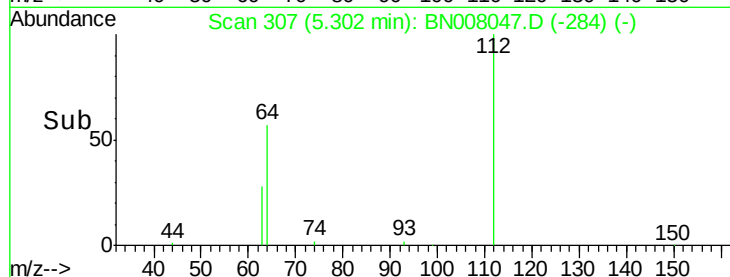
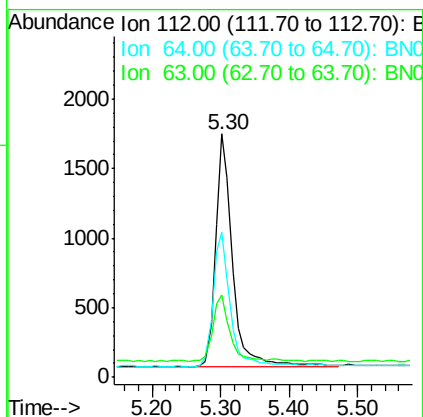
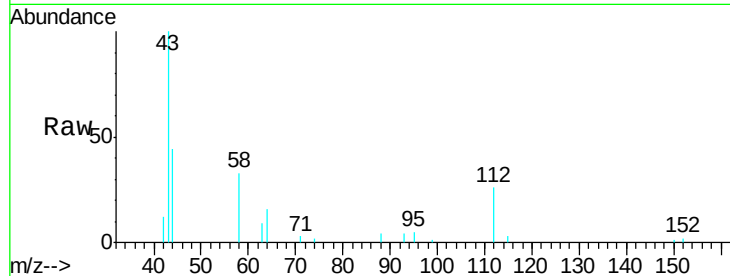
ClientSampleId :

PB123460BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 2926 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 64        | 57.0  | 46.6  | 70.0 |
| 63        | 28.6  | 23.1  | 34.7 |

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#5

Phenol-d6

Concen: 0.219 ng

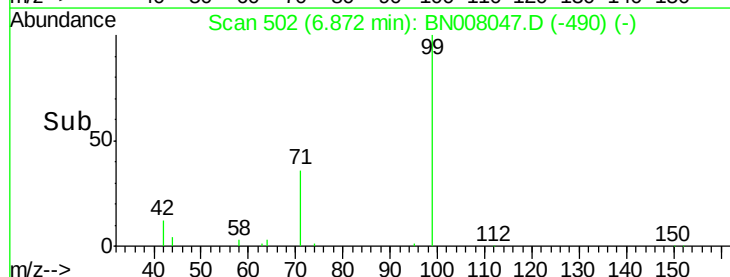
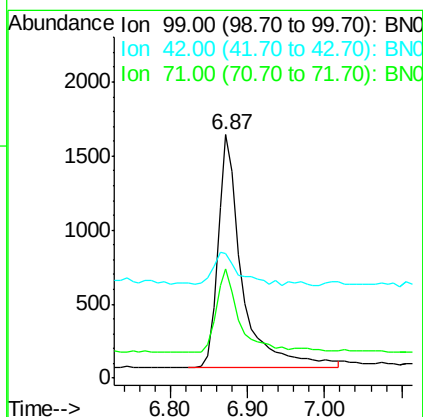
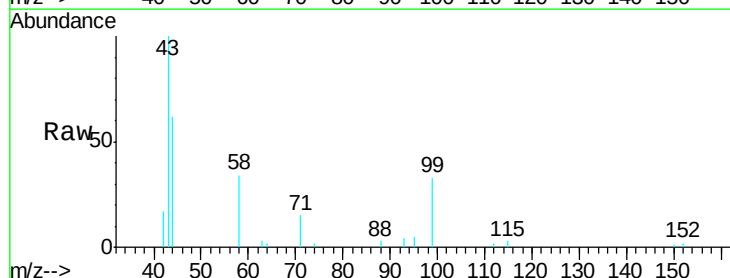
RT: 6.87 min Scan# 502

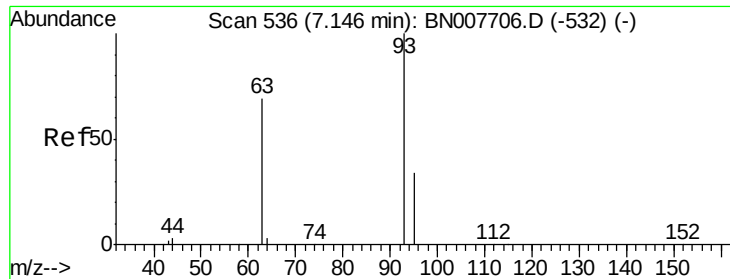
Delta R.T. 0.00 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 99    | Resp: | 3437 |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 15.2  | 12.8  | 19.2 |
| 71        | 33.6  | 27.6  | 41.4 |





#6

bis(2-Chloroethyl)ether

Concen: 0.290 ng

RT: 7.11 min Scan# 531

Delta R.T. -0.04 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

Instrument :

BNA\_N

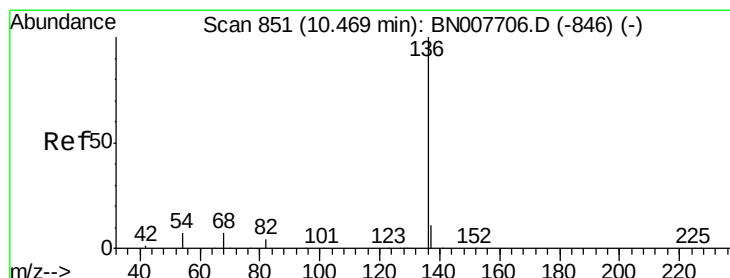
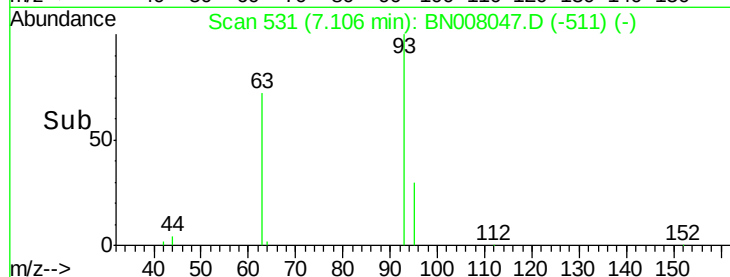
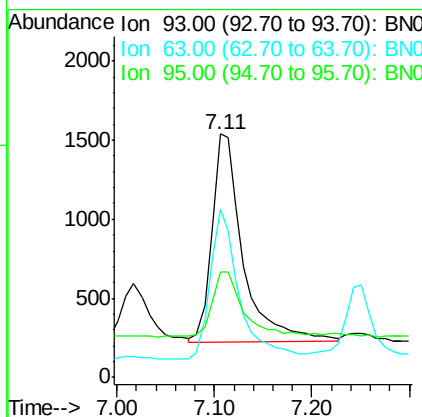
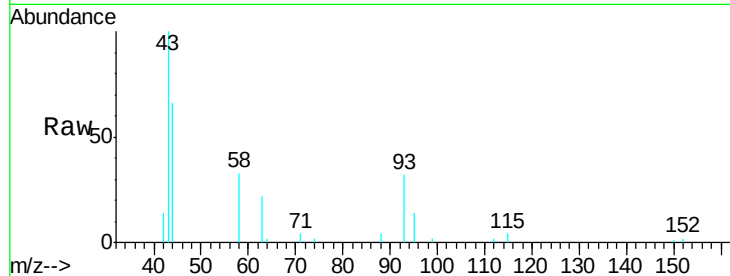
ClientSampleId :

PB123460BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2957  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 67.3  | 59.3  | 88.9  |
| 95       | 32.5  | 31.4  | 47.0  |

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#7

Naphthalene-d8

Concen: 0.400 ng

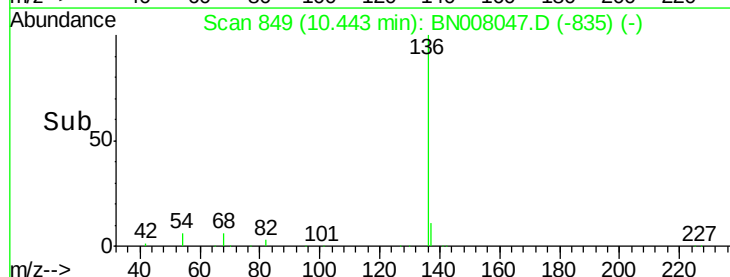
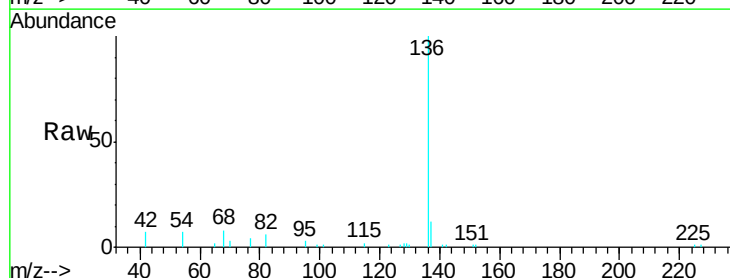
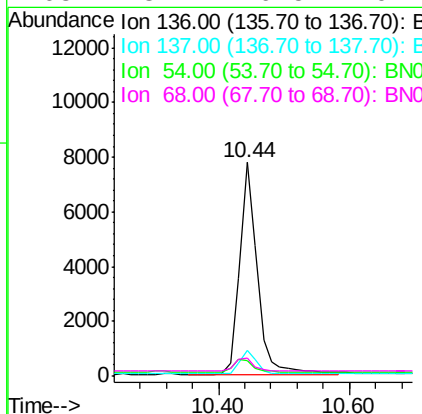
RT: 10.44 min Scan# 849

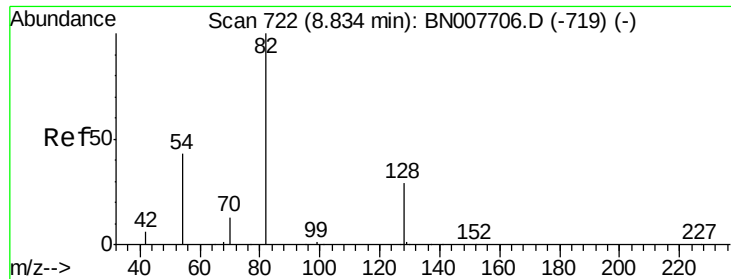
Delta R.T. -0.03 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 14496 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 9.2   | 13.8  |
| 54       | 7.4   | 5.8   | 8.8   |
| 68       | 8.4   | 6.5   | 9.7   |





#8

Nitrobenzene-d5

Concen: 0.249 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

Instrument :

BNA\_N

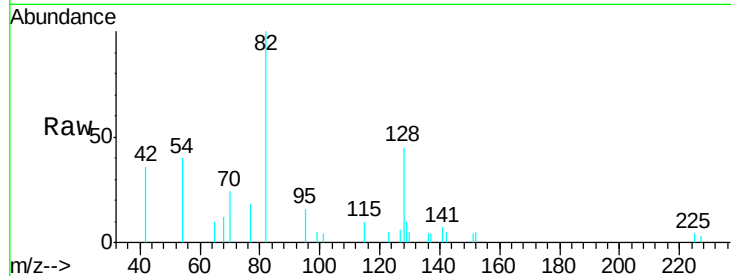
ClientSampleId :

PB123460BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 3159  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 45.5  | 24.5  | 36.7# |
| 54        | 40.4  | 35.2  | 52.8  |

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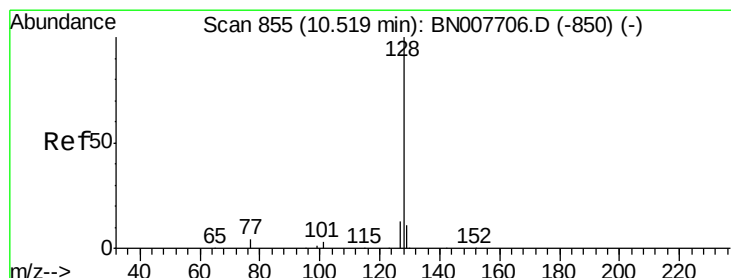
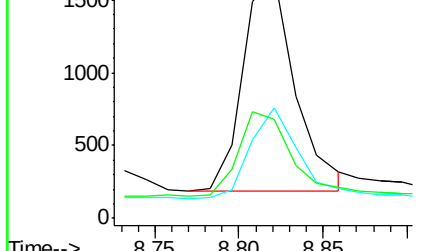
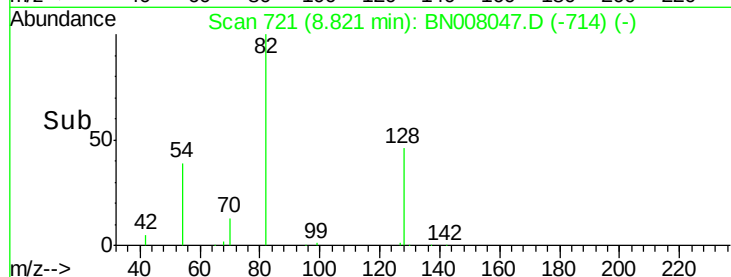


Abundance Ion 82.00 (81.70 to 82.70): BN007706.D (-719) (-)

Ion 128.00 (127.70 to 128.70): BN007706.D (-719) (-)

Ion 54.00 (53.70 to 54.70): BN007706.D (-719) (-)

Time-->



#9

Naphthalene

Concen: 0.261 ng

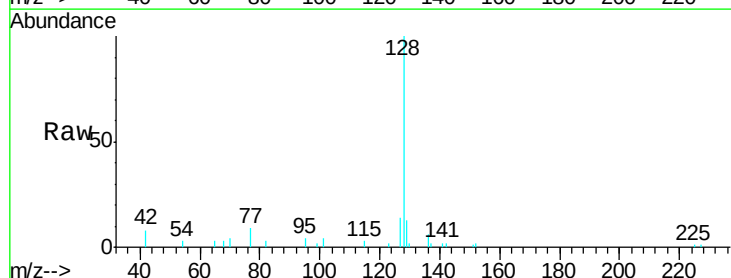
RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 10607 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 13.1  | 9.1   | 13.7  |
| 127       | 14.5  | 10.6  | 15.8  |

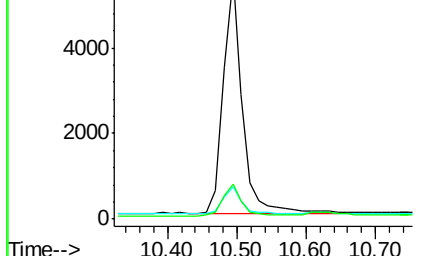
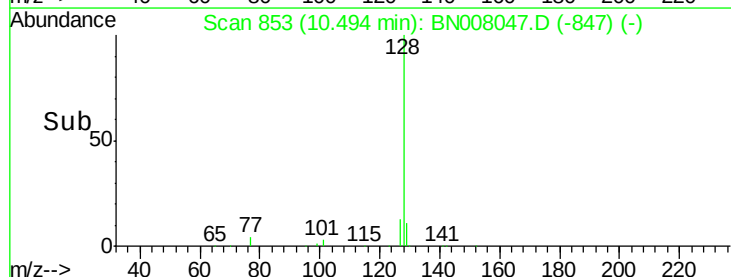


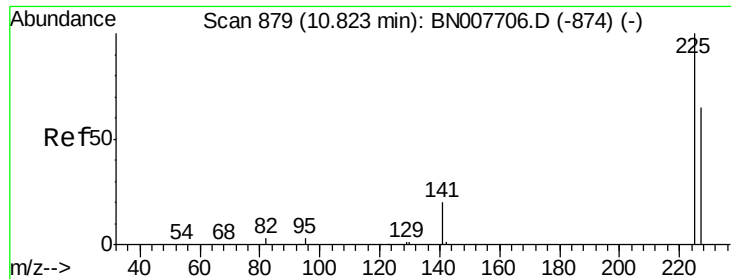
Abundance Ion 128.00 (127.70 to 128.70): BN007706.D (-850) (-)

Ion 129.00 (128.70 to 129.70): BN007706.D (-850) (-)

Ion 127.00 (126.70 to 127.70): BN007706.D (-850) (-)

Time-->





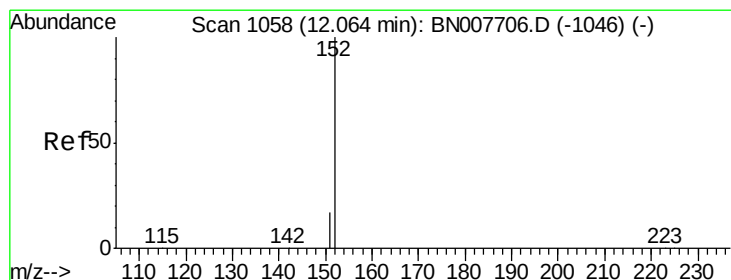
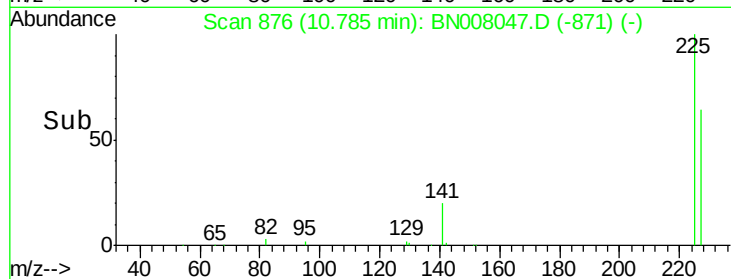
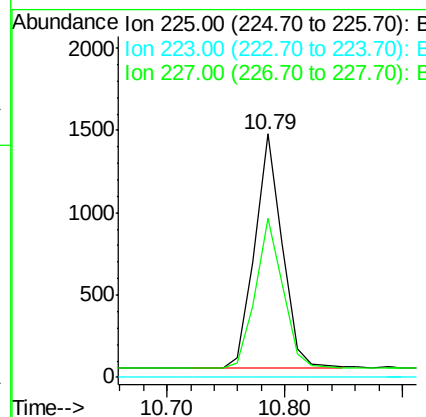
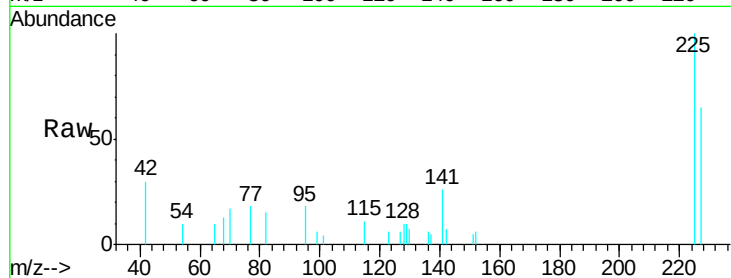
#10  
Hexachlorobutadiene  
Concen: 0.271 ng  
RT: 10.79 min Scan# 876  
Delta R.T. -0.04 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 63.9  | 51.2  | 76.8  |

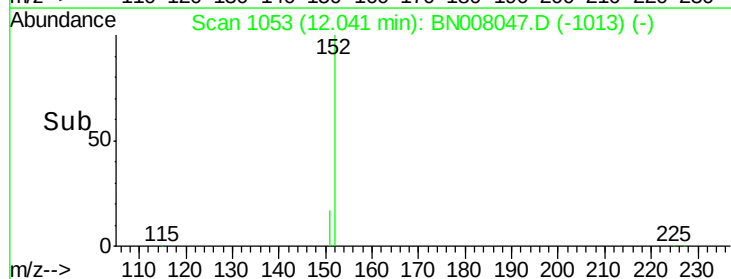
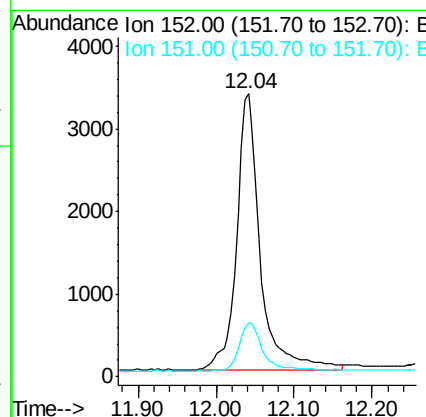
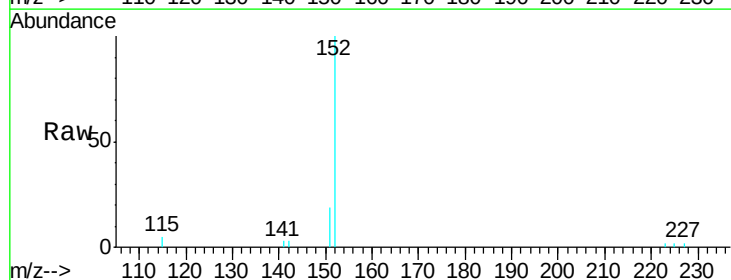
Manual Integrations  
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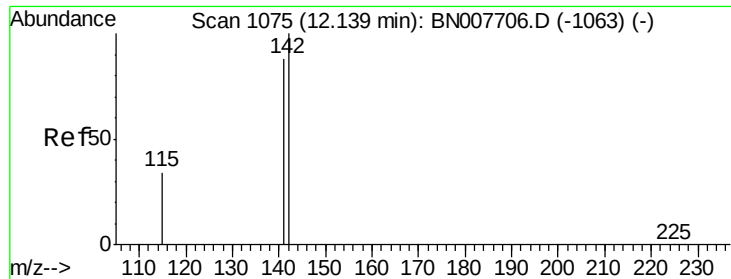
mohammad  
10/7/2019 4:40:35 PM



#11  
2-Methylnaphthalene-d10  
Concen: 0.289 ng  
RT: 12.04 min Scan# 1053  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.1  | 15.4  | 23.2  |





#12

2-Methylnaphthalene

Concen: 0.265 ng

RT: 12.11 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

Instrument :

BNA\_N

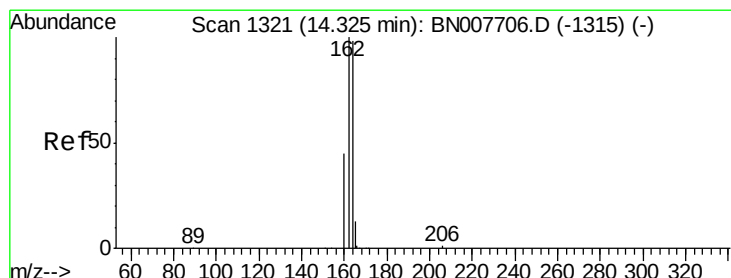
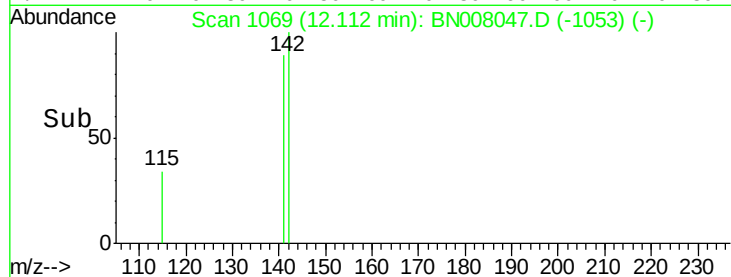
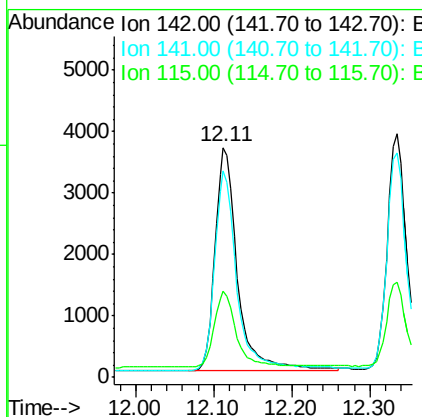
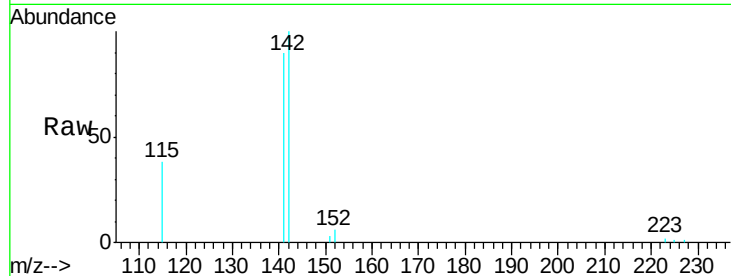
ClientSampleId :

PB123460BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 7292  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.8  | 70.6  | 106.0 |
| 115       | 37.7  | 28.3  | 42.5  |

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#13

Acenaphthene-d10

Concen: 0.400 ng

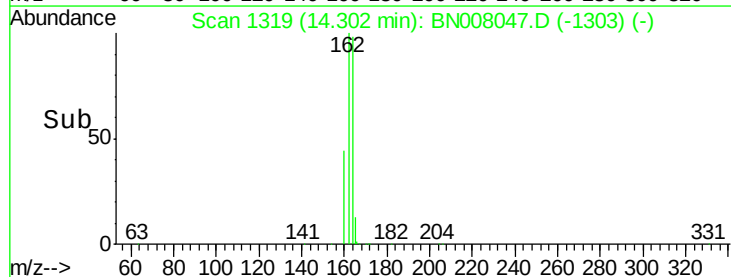
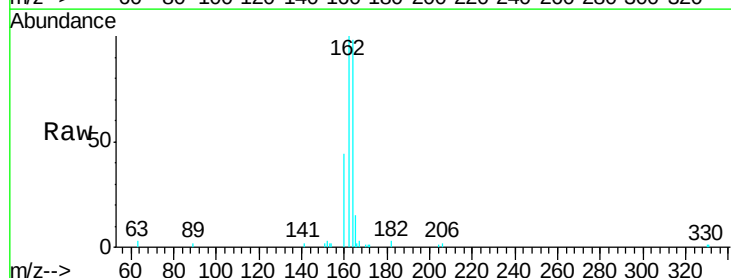
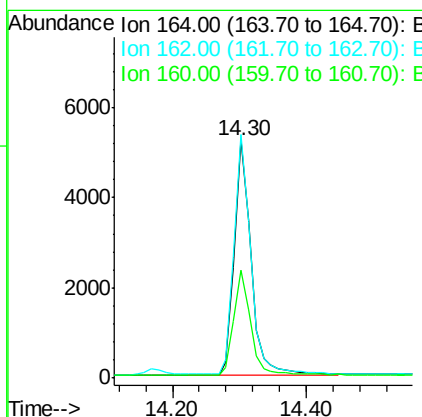
RT: 14.30 min Scan# 1319

Delta R.T. -0.02 min

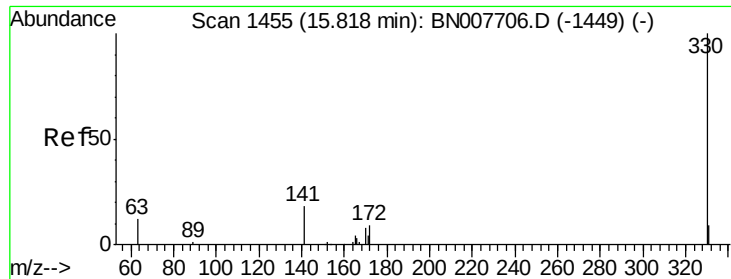
Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 8997  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 102.3 | 81.7  | 122.5 |
| 160       | 45.5  | 37.0  | 55.4  |







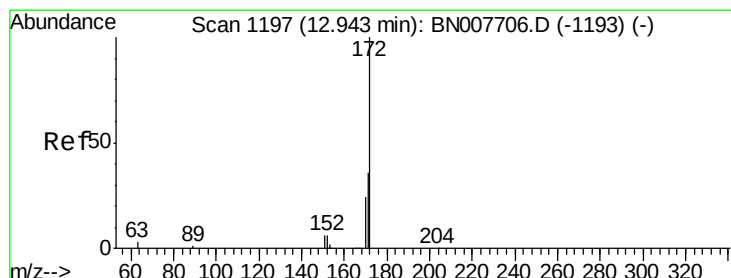
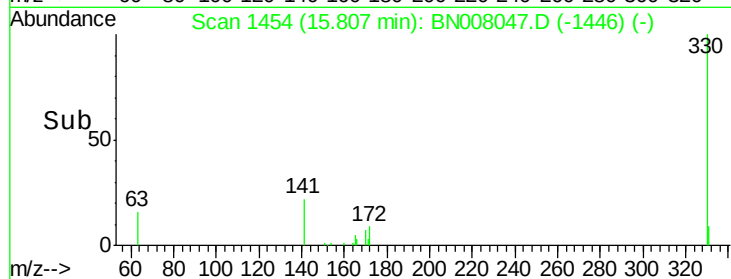
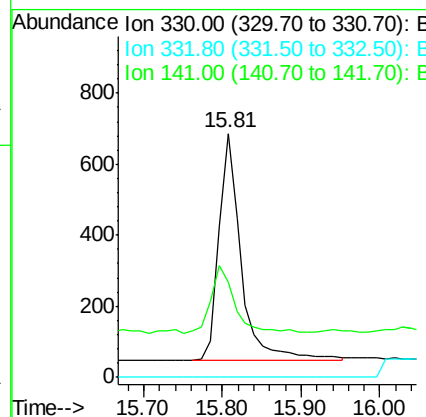
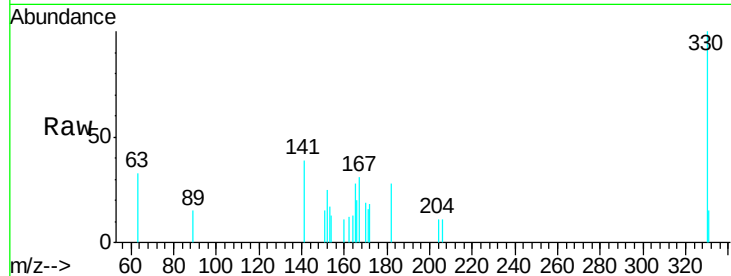
#14  
 2,4,6-Tribromophenol  
 Concen: 0.256 ng  
 RT: 15.81 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB123460BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 31.9  | 28.7  | 43.1  |

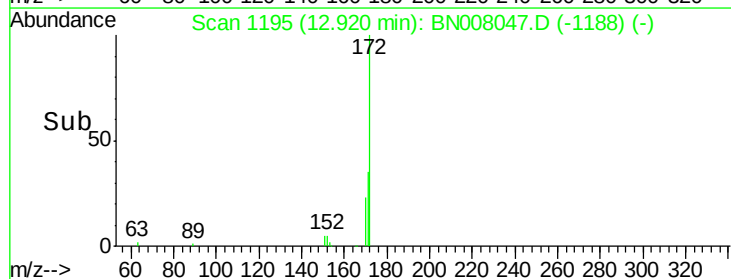
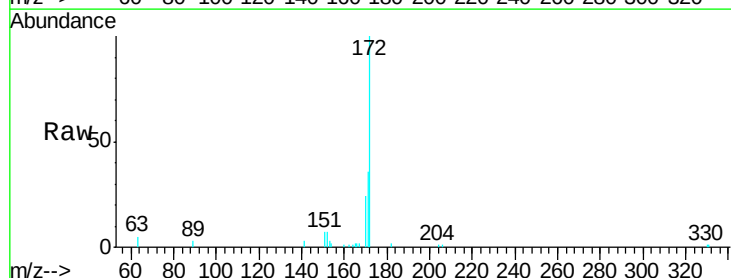
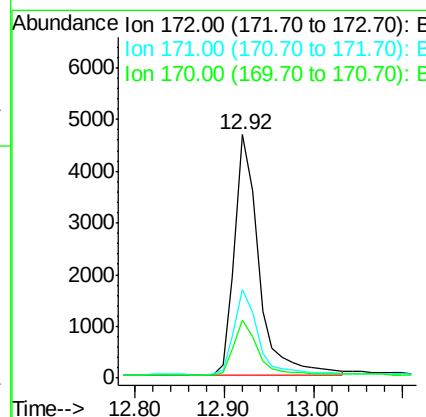
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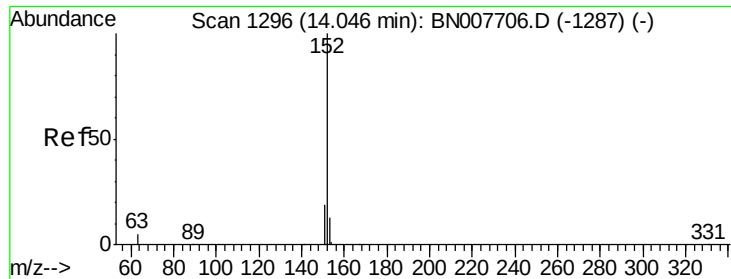
mohammad  
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#15  
 2-Fluorobiphenyl  
 Concen: 0.239 ng  
 RT: 12.92 min Scan# 1195  
 Delta R.T. -0.02 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 28.8  | 43.2  |
| 170     | 24.0  | 19.5  | 29.3  |





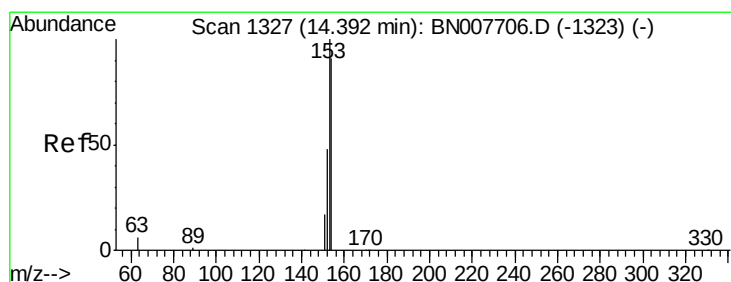
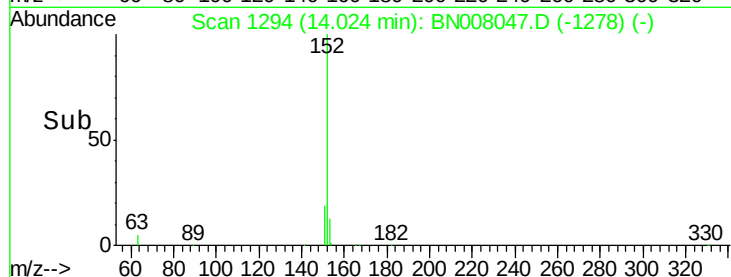
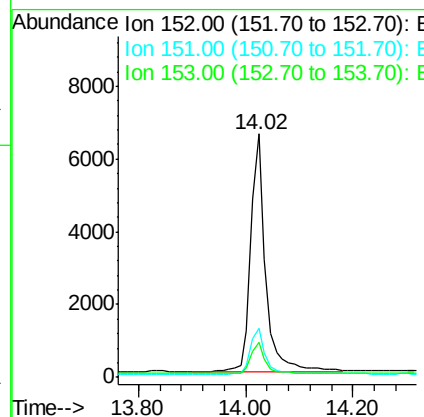
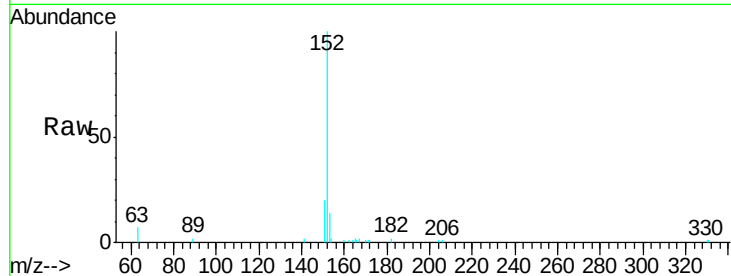
#16  
Acenaphthylene  
Concen: 0.265 ng  
RT: 14.02 min Scan# 1294  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.4  | 15.5  | 23.3  |
| 153     | 12.9  | 10.4  | 15.6  |

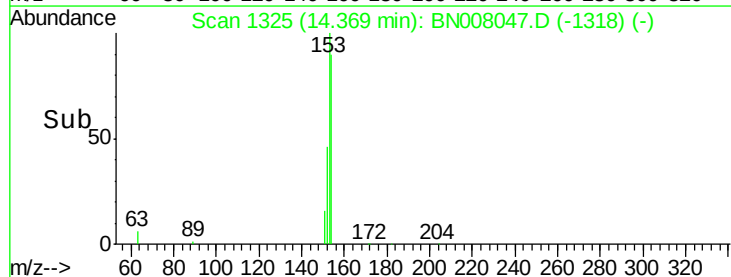
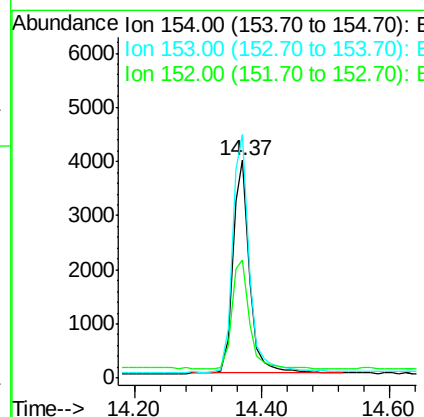
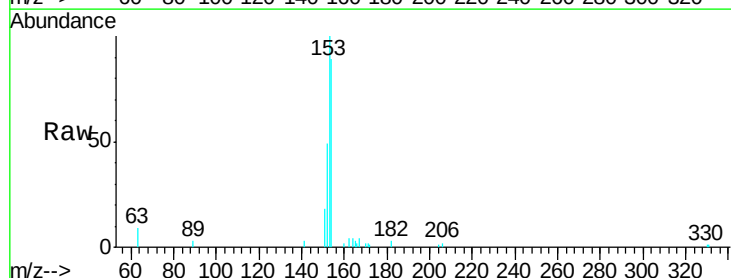
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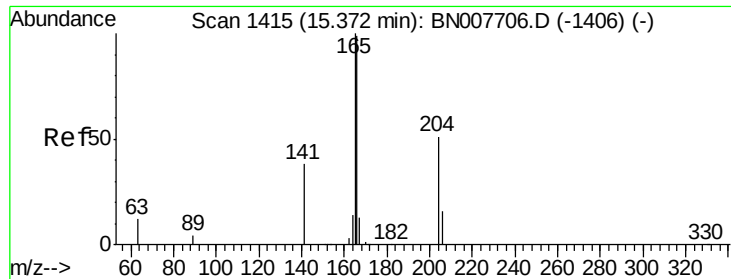
mohammad  
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#17  
Acenaphthene  
Concen: 0.230 ng  
RT: 14.37 min Scan# 1325  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 114.7 | 87.0  | 130.4 |
| 152     | 53.5  | 42.7  | 64.1  |





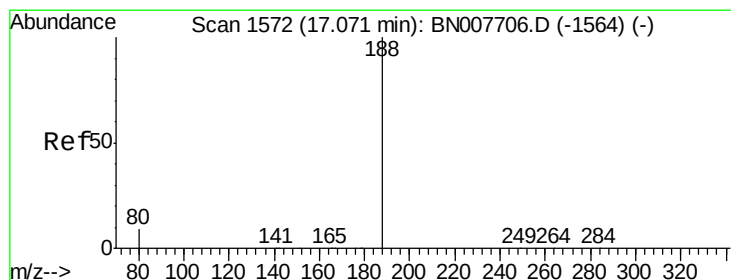
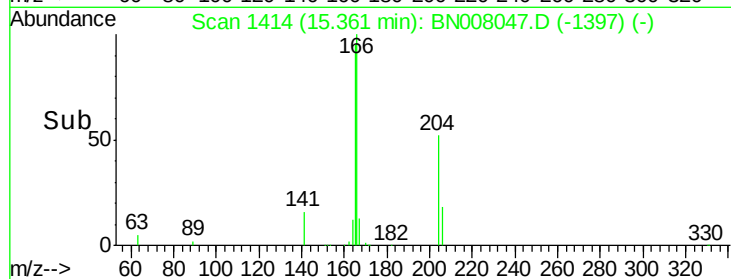
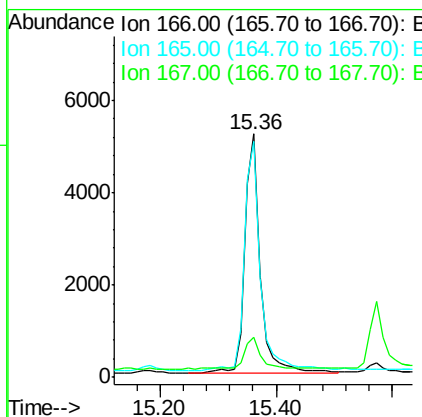
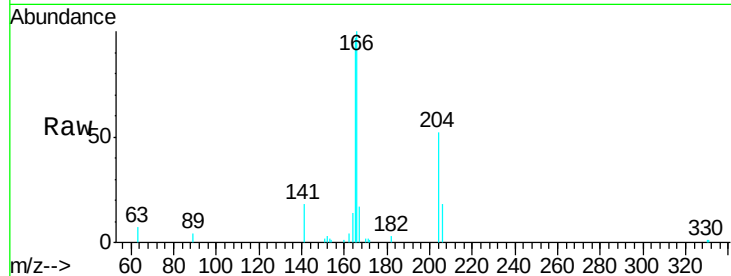
#18  
Fluorene  
Concen: 0.242 ng  
RT: 15.36 min Scan# 1414  
Delta R.T. -0.01 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.9  | 78.0  | 117.0 |
| 167     | 13.1  | 10.9  | 16.3  |

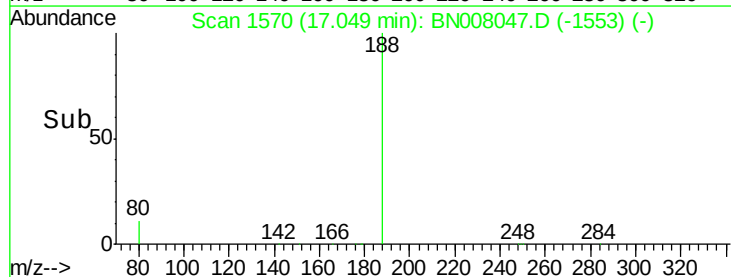
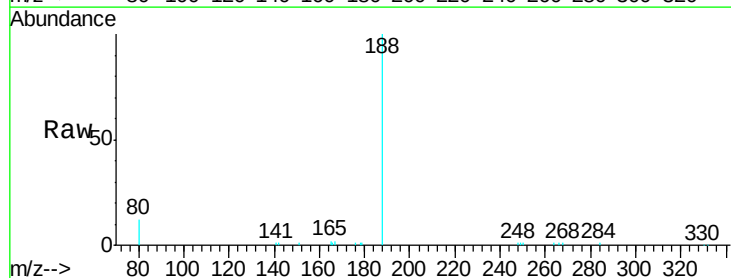
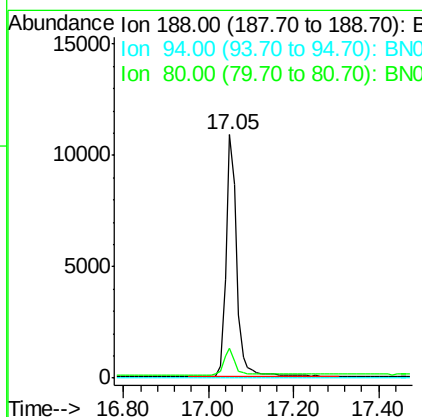
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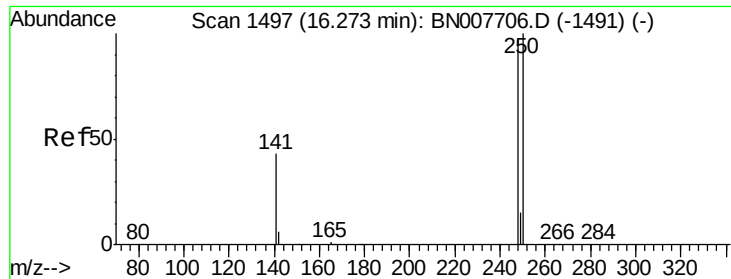
mohammad  
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#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.05 min Scan# 1570  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 12.2  | 7.4   | 11.2  |





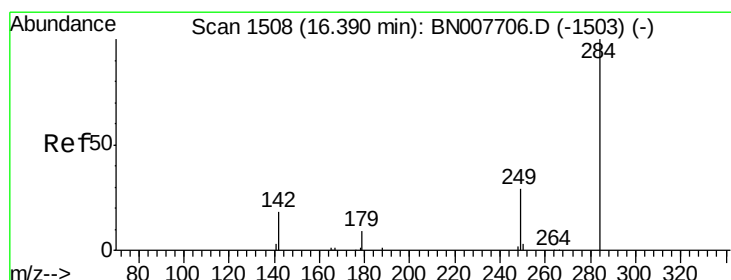
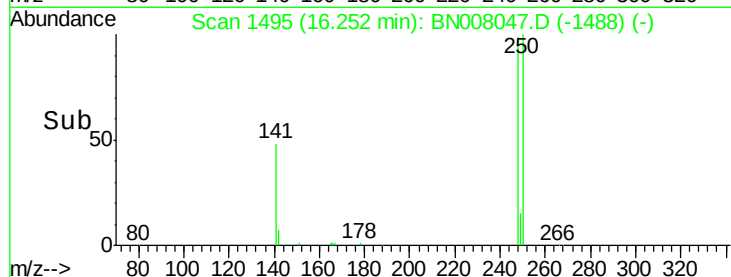
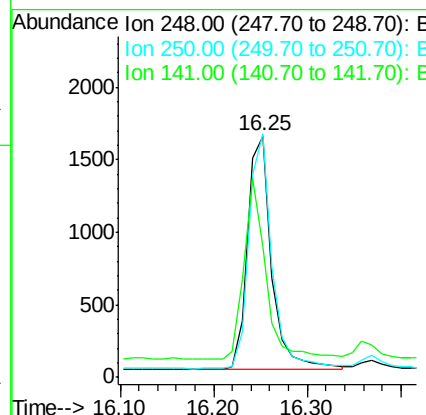
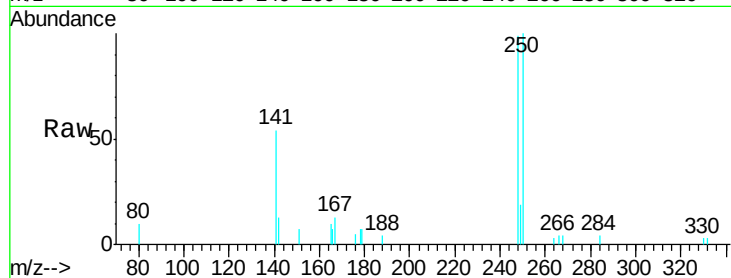
#20  
4-Bromophenyl-phenylether  
Concen: 0.251 ng  
RT: 16.25 min Scan# 1495  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.9 | 82.2  | 123.4 |
| 141     | 54.2  | 36.3  | 54.5  |

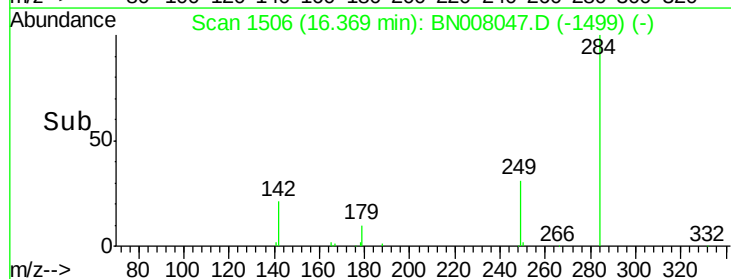
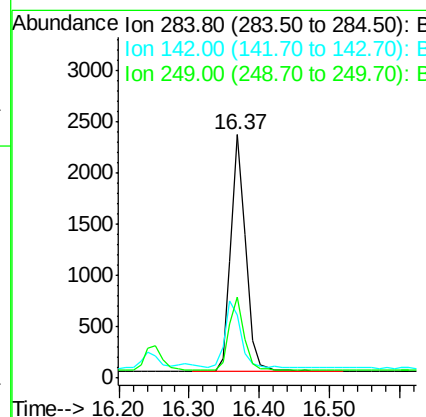
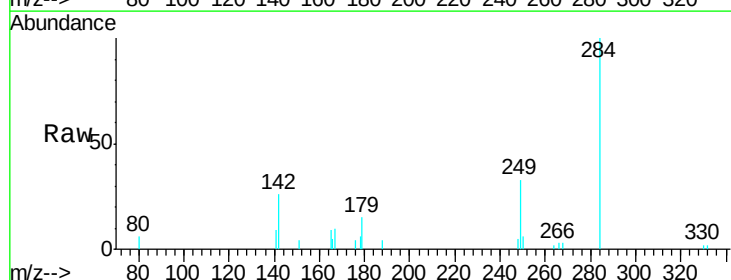
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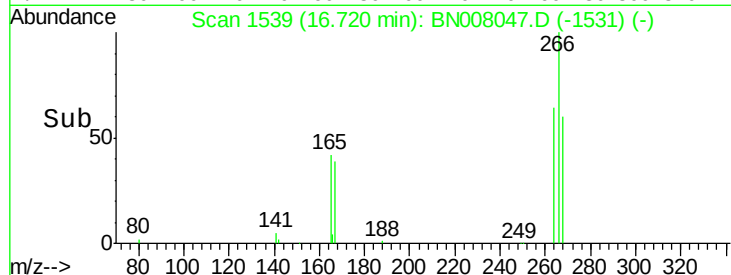
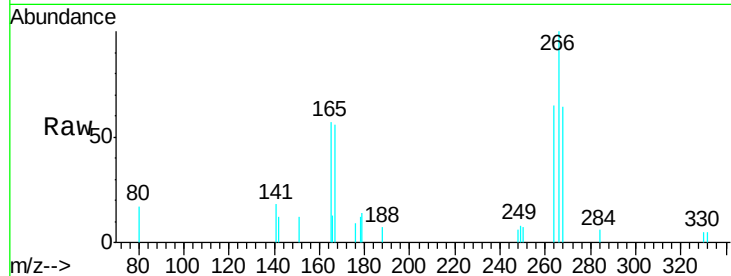
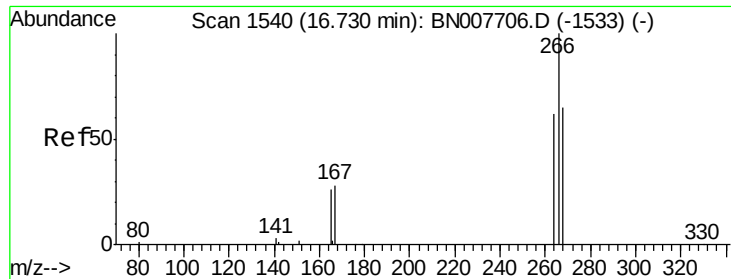
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#21  
Hexachlorobenzene  
Concen: 0.270 ng  
RT: 16.37 min Scan# 1506  
Delta R.T. -0.02 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 30.9  | 25.8  | 38.6  |
| 249     | 30.6  | 25.9  | 38.9  |





#22

Pentachlorophenol

Concen: 0.510 ng

RT: 16.72 min Scan# 1539

Delta R.T. -0.01 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 2377 |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 65.4  | 50.0  | 75.0 |
| 268       | 63.7  | 54.2  | 81.4 |

Instrument :

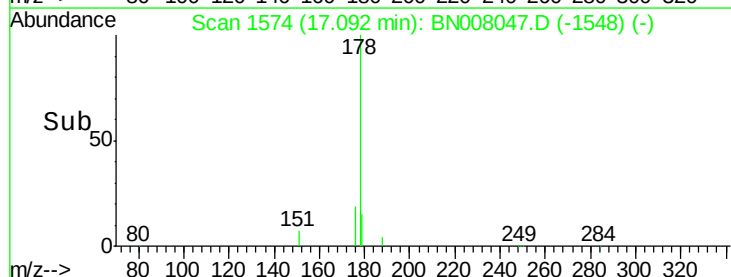
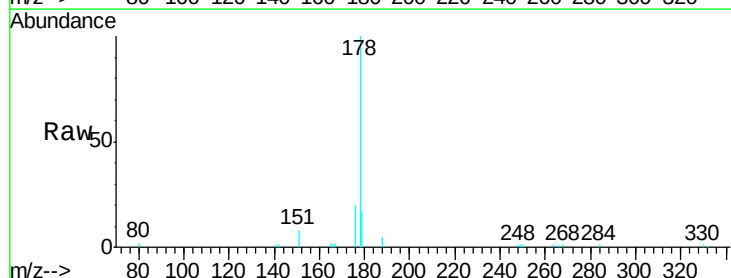
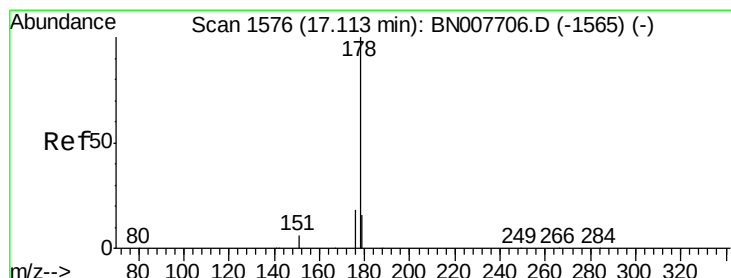
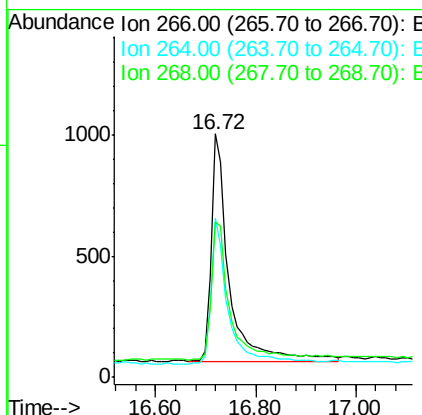
BNA\_N

ClientSampleId :

PB123460BS

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#23

Phenanthrene

Concen: 0.250 ng

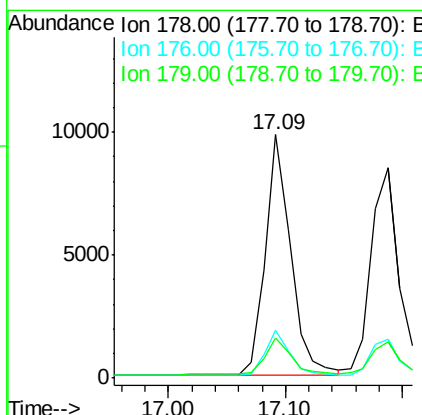
RT: 17.09 min Scan# 1574

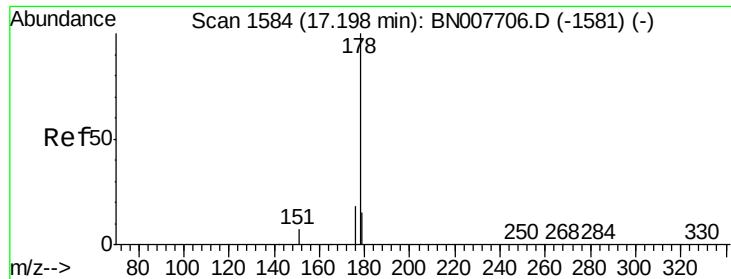
Delta R.T. -0.02 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 14860 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.7  | 14.9  | 22.3  |
| 179       | 16.0  | 12.5  | 18.7  |





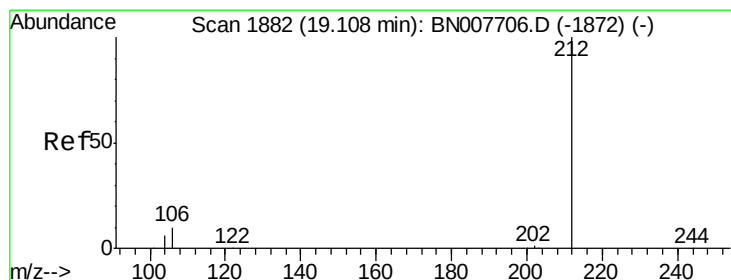
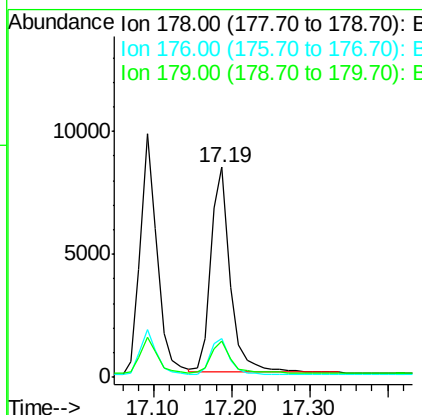
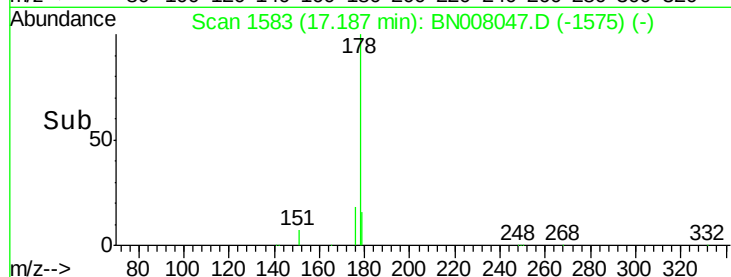
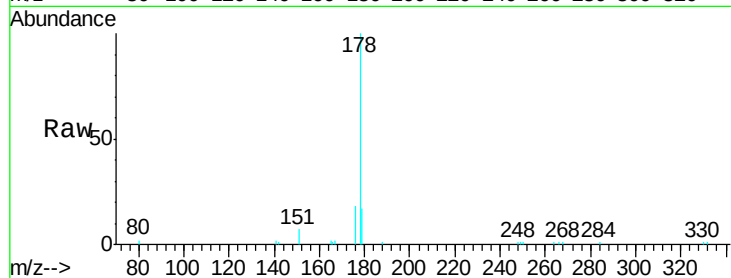
#24  
 Anthracene  
 Concen: 0.268 ng  
 RT: 17.19 min Scan# 1583  
 Delta R.T. -0.01 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB123460BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 14384 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 17.9  | 14.6  | 21.8  |
| 179       | 15.3  | 12.2  | 18.4  |

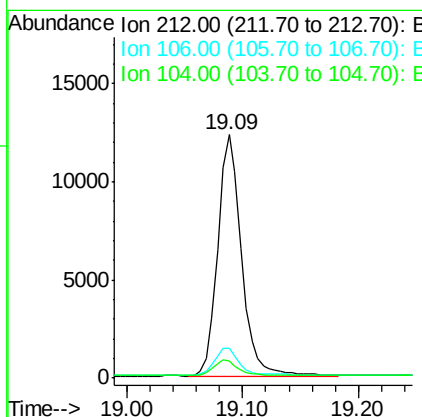
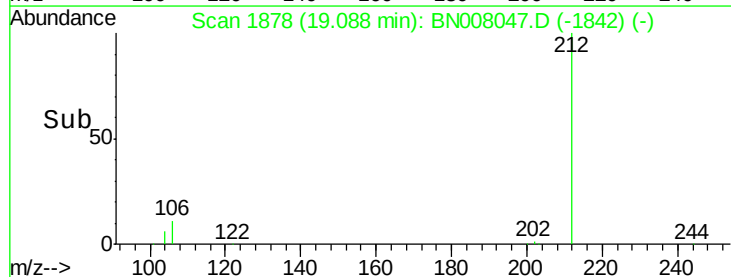
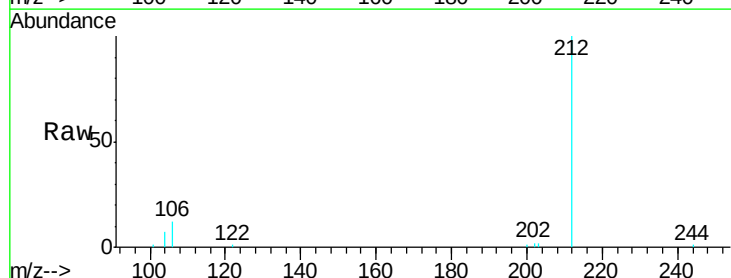
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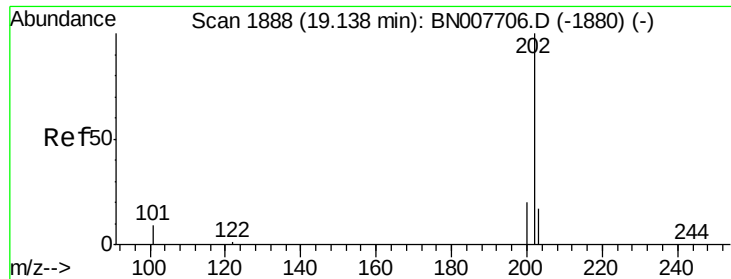
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#25  
 Fluoranthene-d10  
 Concen: 0.271 ng  
 RT: 19.09 min Scan# 1878  
 Delta R.T. -0.02 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 17429 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 11.4  | 9.4   | 14.0  |
| 104       | 6.5   | 5.3   | 7.9   |





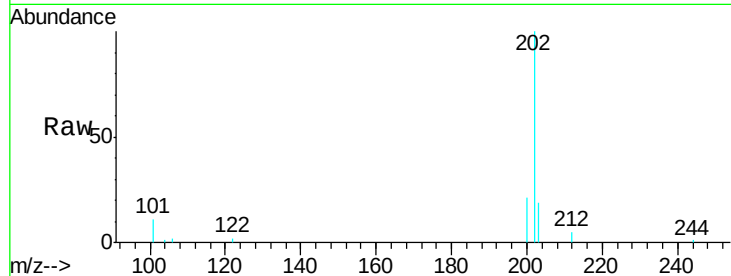
#26  
**Fluoranthene**  
 Concen: 0.264 ng  
 RT: 19.12 min Scan# 1884  
 Delta R.T. -0.02 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB123460BS

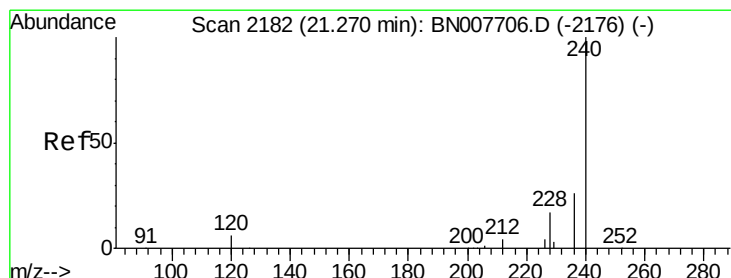
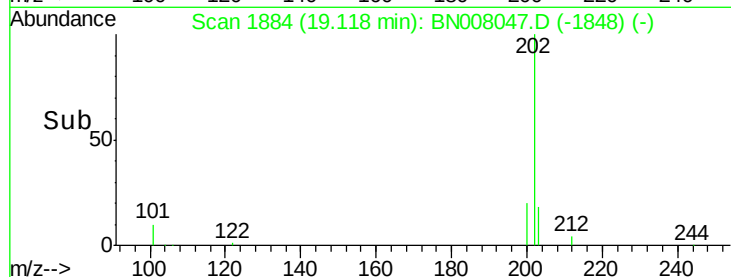
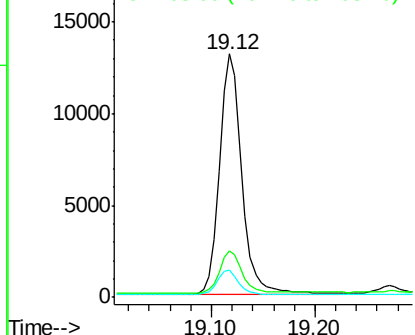
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 19472 |       |       |
| 101     | 10.4  |       | 8.4   | 12.6  |
| 203     | 17.7  |       | 13.8  | 20.8  |

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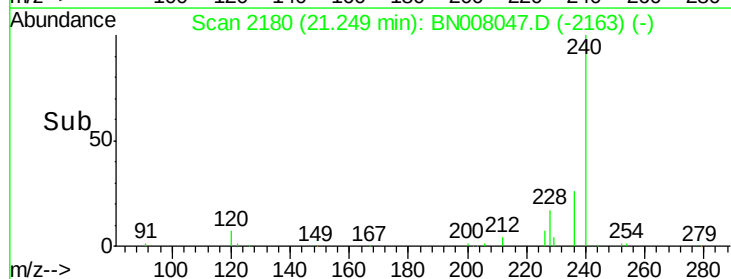
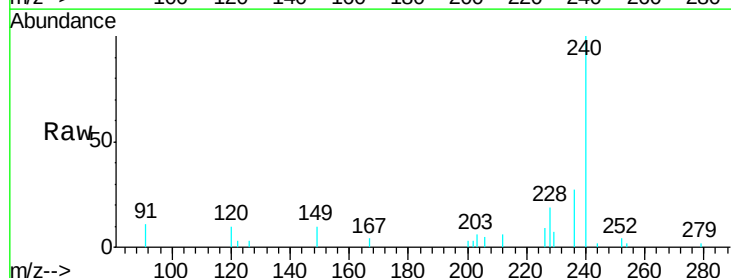
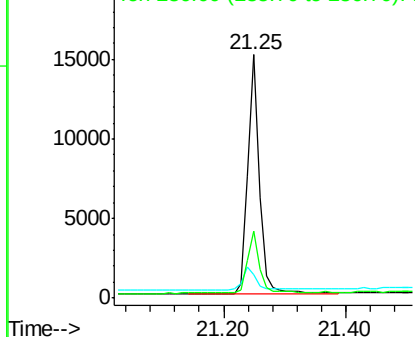
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

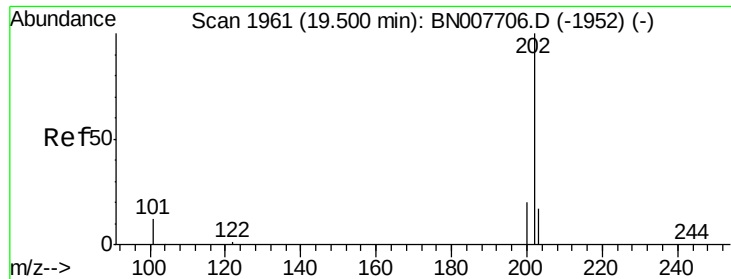


#27  
**Chrysene-d12**  
 Concen: 0.400 ng  
 RT: 21.25 min Scan# 2180  
 Delta R.T. -0.02 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 240     | 100   | 20527 |       |       |
| 120     | 9.7   |       | 5.4   | 8.2#  |
| 236     | 27.5  |       | 21.0  | 31.4  |

Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





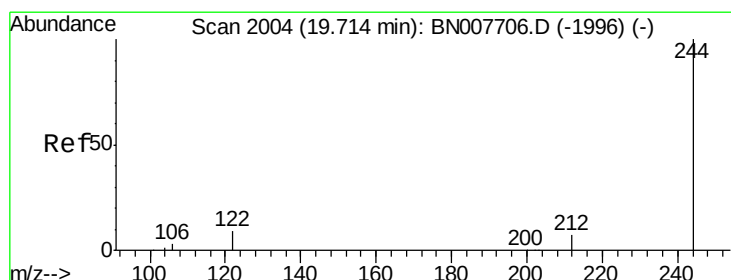
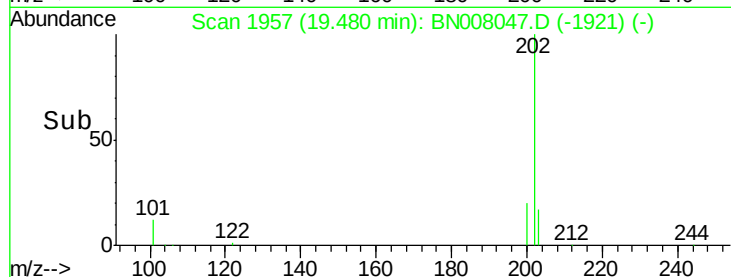
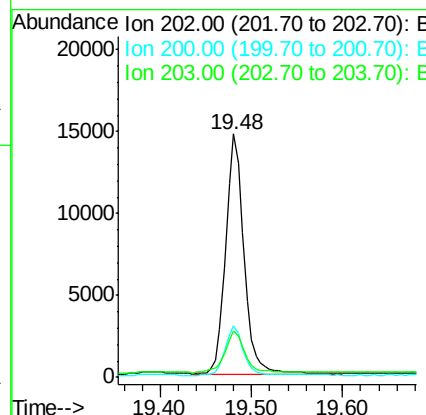
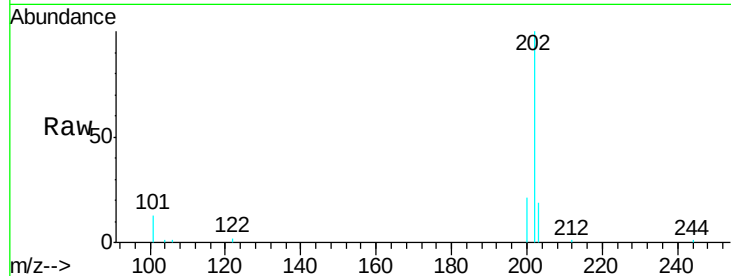
#28  
 Pyrene  
 Concen: 0.291 ng  
 RT: 19.48 min Scan# 1957  
 Delta R.T. -0.02 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB123460BS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.6  | 16.4       | 24.6       |
| 203     | 18.5  | 14.1       | 21.1       |

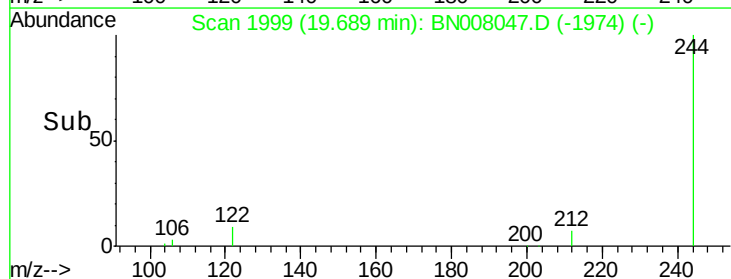
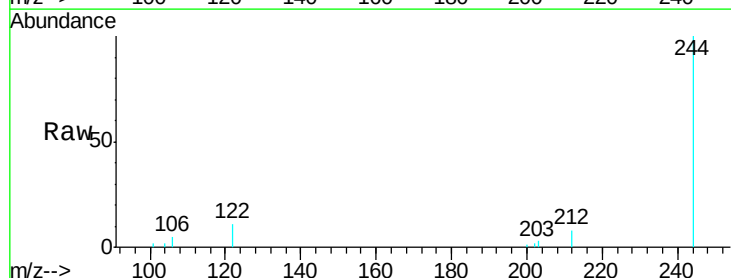
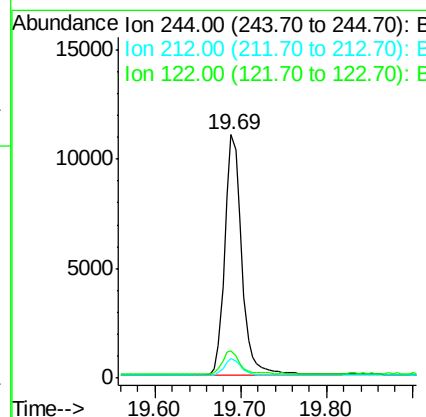
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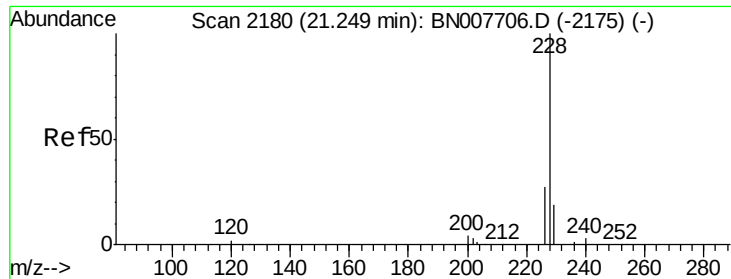


#29  
 Terphenyl-d14  
 Concen: 0.304 ng  
 RT: 19.69 min Scan# 1999  
 Delta R.T. -0.02 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 7.9   | 5.9        | 8.9        |
| 122     | 11.1  | 7.4        | 11.2       |







#30

Benzo(a)anthracene

Concen: 0.266 ng

RT: 21.23 min Scan# 2178

Delta R.T. -0.02 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

Instrument :

BNA\_N

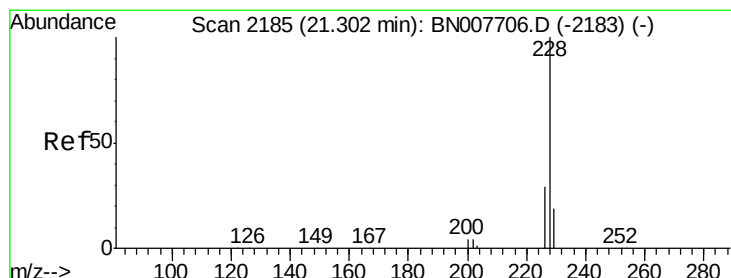
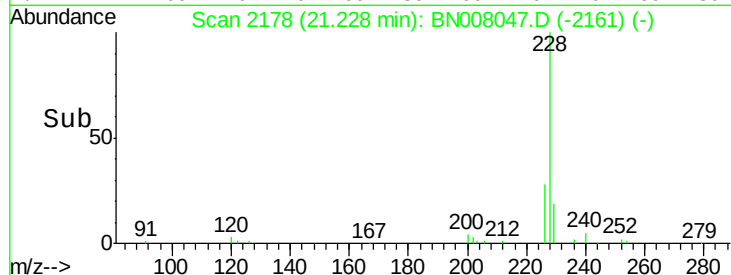
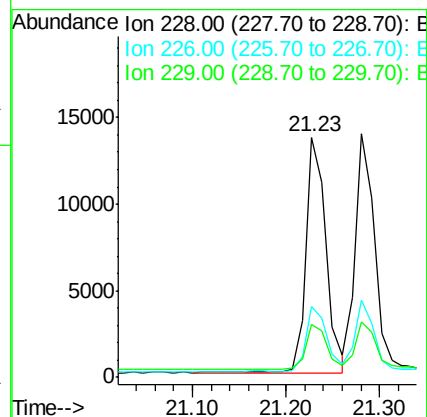
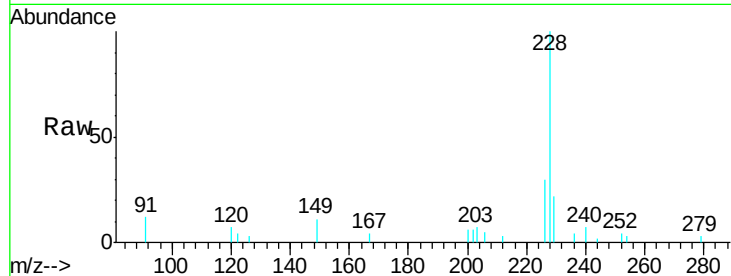
ClientSampleId :

PB123460BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 20145 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.5  | 22.1  | 33.1  |
| 229       | 22.2  | 15.8  | 23.6  |

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#31

Chrysene

Concen: 0.267 ng

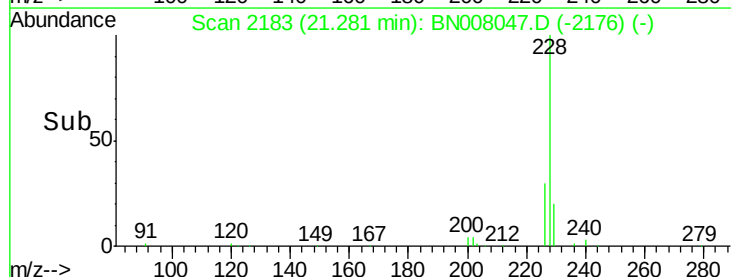
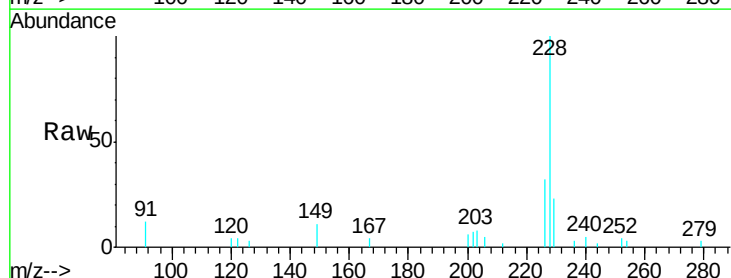
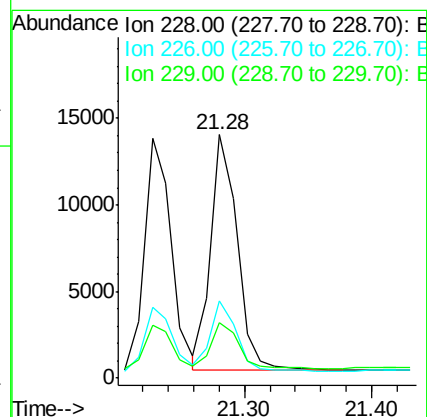
RT: 21.28 min Scan# 2183

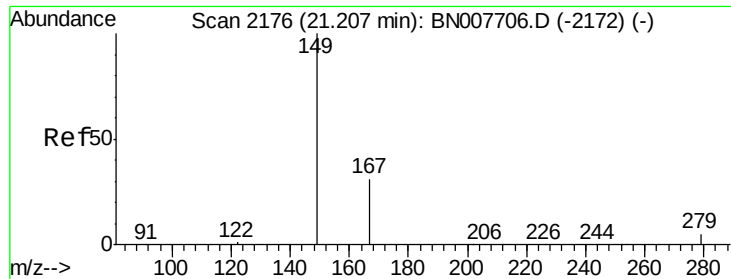
Delta R.T. -0.02 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 19650 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.7  | 23.9  | 35.9  |
| 229       | 22.7  | 15.8  | 23.6  |





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.286 ng m

RT: 21.17 min Scan# 2173

Delta R.T. -0.03 min

Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

Instrument :

BNA\_N

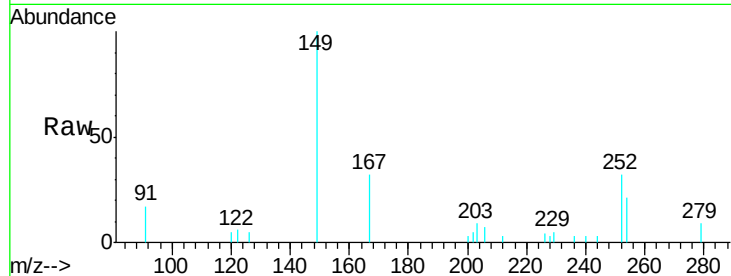
ClientSampleId :

PB123460BS

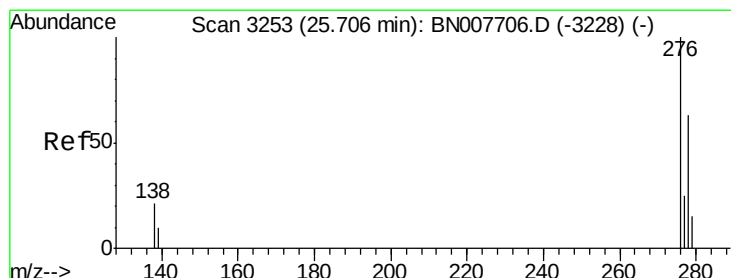
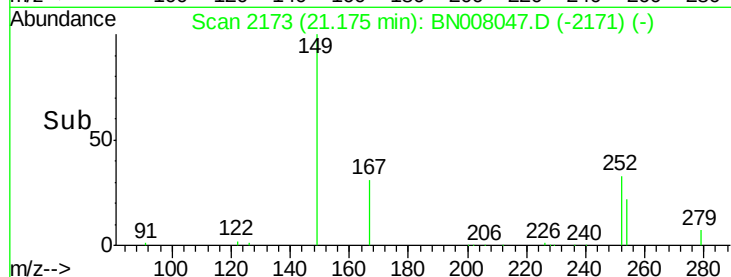
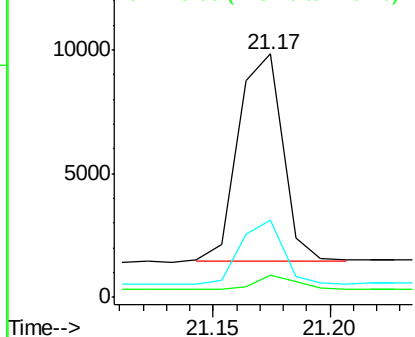
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 11127 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 27.8  | 23.7  | 35.5  |
| 279       | 5.7   | 4.2   | 6.2   |

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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.257 ng

RT: 25.67 min Scan# 3243

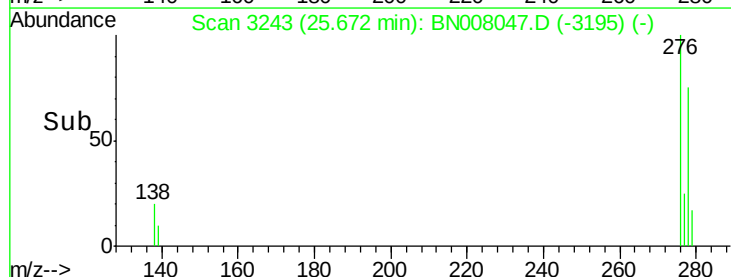
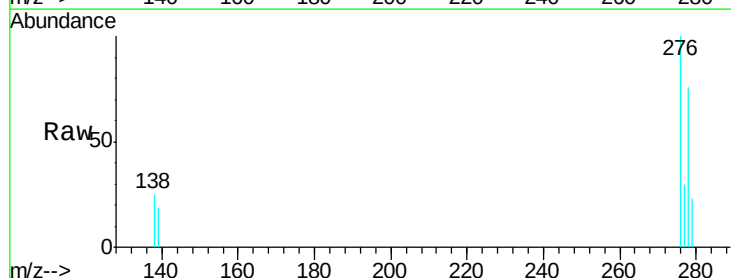
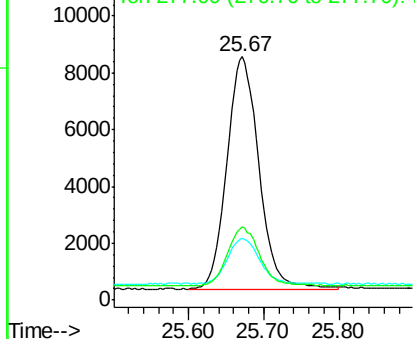
Delta R.T. -0.03 min

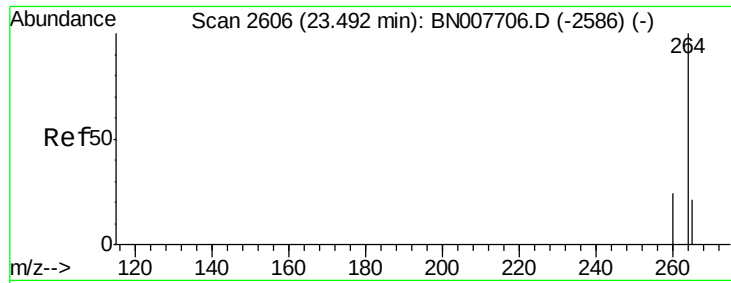
Lab File: BN008047.D

Acq: 06 Oct 2019 06:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 23709 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.6  | 17.1  | 25.7  |
| 277       | 25.0  | 20.0  | 30.0  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





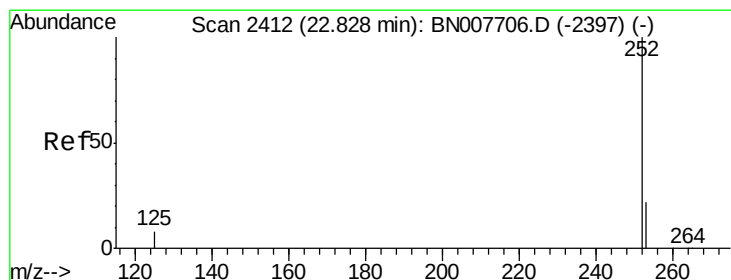
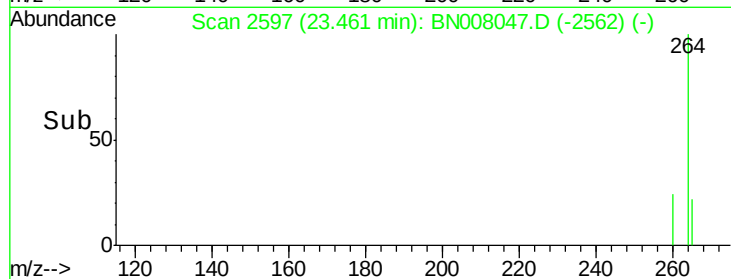
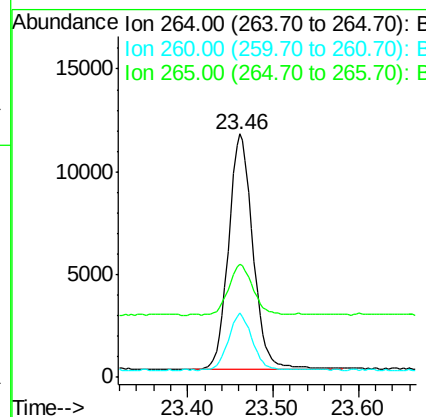
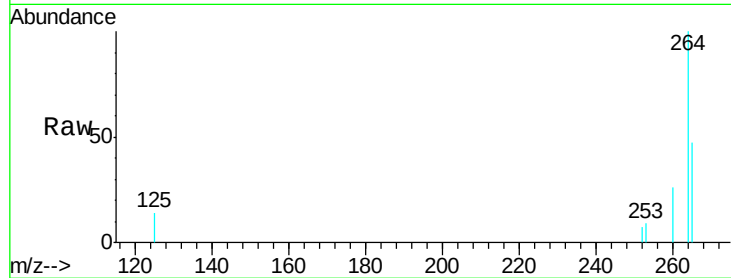
#34  
**Perylene-d12**  
 Concen: 0.400 ng  
 RT: 23.46 min Scan# 2597  
 Delta R.T. -0.03 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB123460BS

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 264     | 100   | 22571 |       |       |
| 260     | 26.2  | 19.3  | 28.9  |       |
| 265     | 46.6  | 26.9  | 40.3# |       |

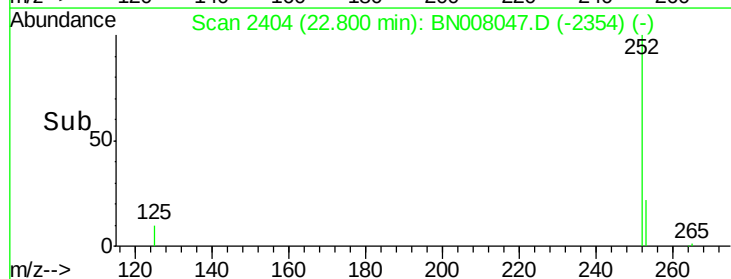
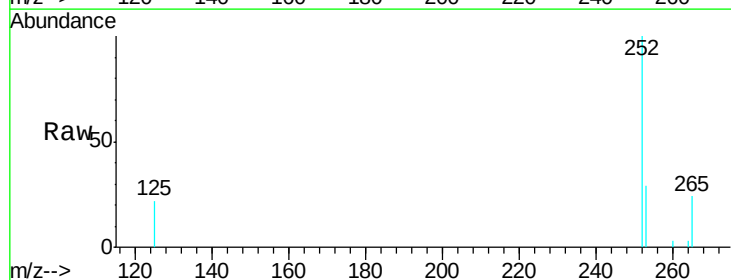
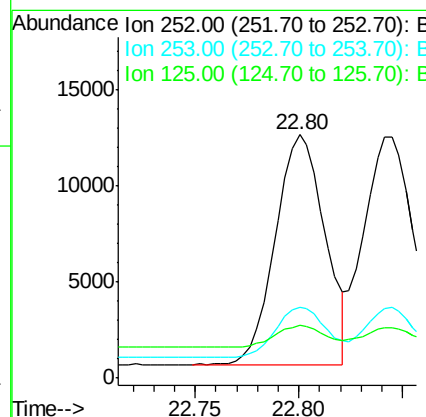
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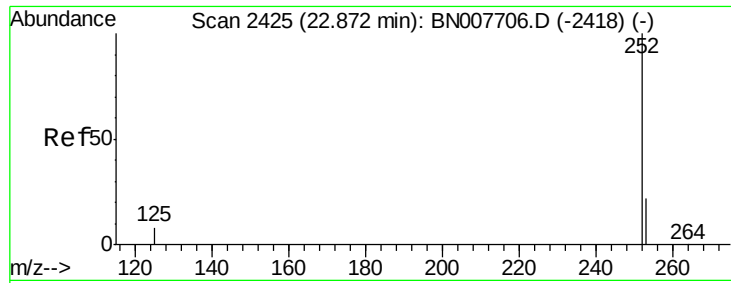
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#35  
**Benzo(b)fluoranthene**  
 Concen: 0.253 ng  
 RT: 22.80 min Scan# 2404  
 Delta R.T. -0.03 min  
 Lab File: BN008047.D  
 Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 19794 |       |       |
| 253     | 28.9  | 18.3  | 27.5# |       |
| 125     | 21.8  | 8.2   | 12.4# |       |





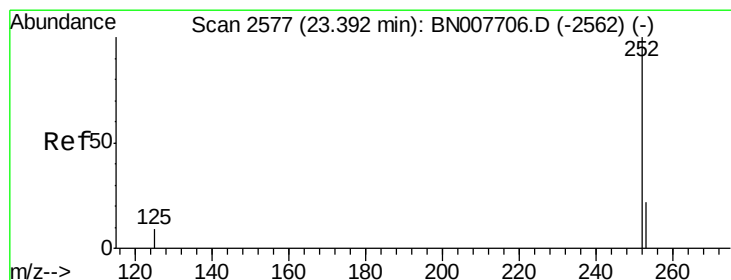
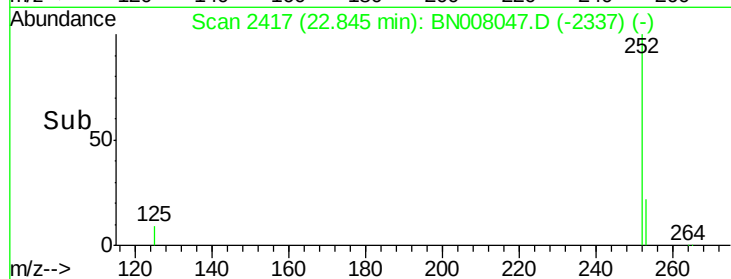
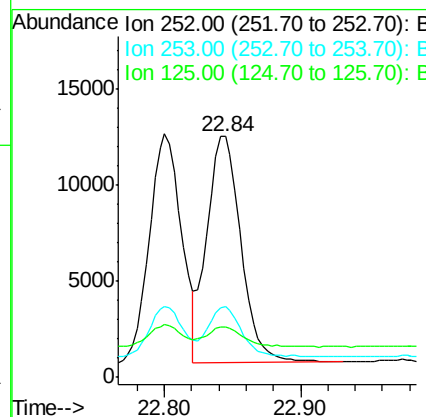
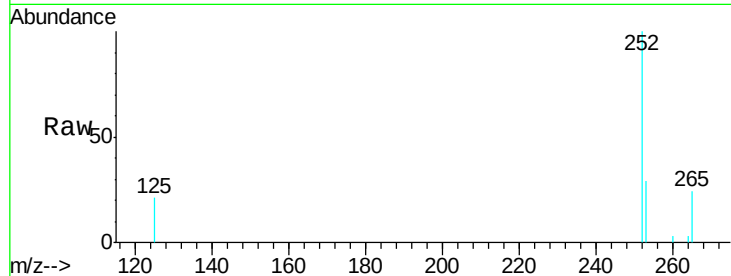
#36  
Benzo(k)fluoranthene  
Concen: 0.265 ng  
RT: 22.84 min Scan# 2417  
Delta R.T. -0.03 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 29.4  | 18.5       | 27.7#      |
| 125     | 21.1  | 8.4        | 12.6#      |

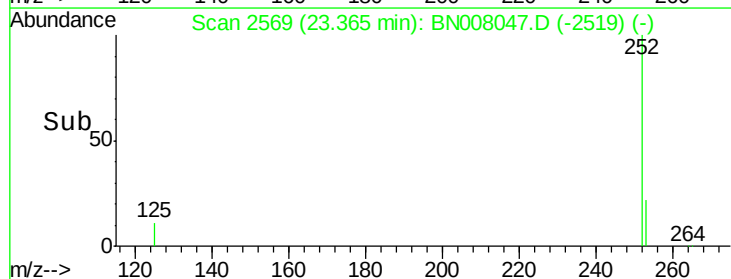
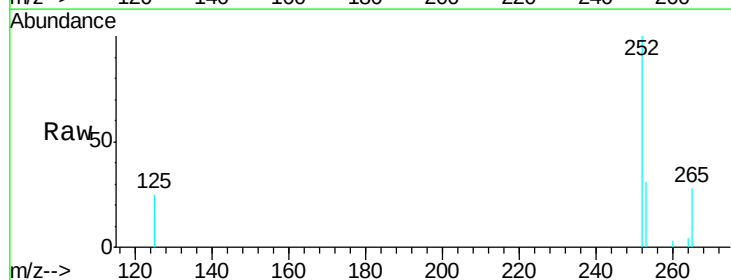
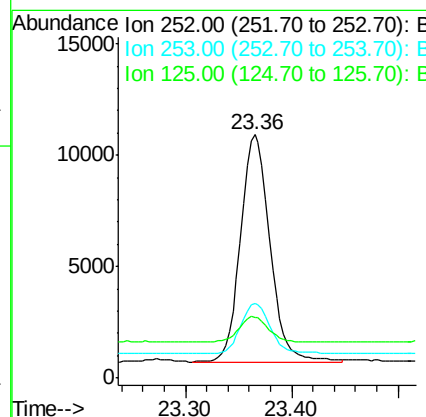
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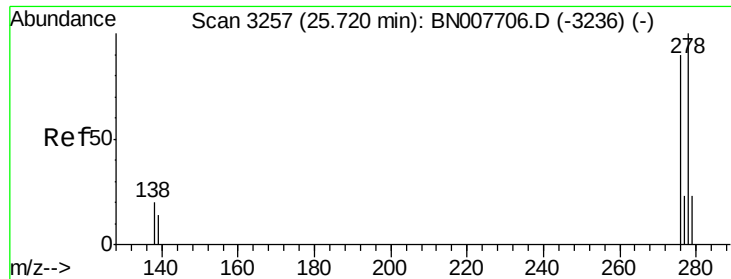
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#37  
Benzo(a)pyrene  
Concen: 0.267 ng  
RT: 23.36 min Scan# 2569  
Delta R.T. -0.03 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 30.9  | 18.6       | 27.8#      |
| 125     | 25.1  | 9.4        | 14.0#      |





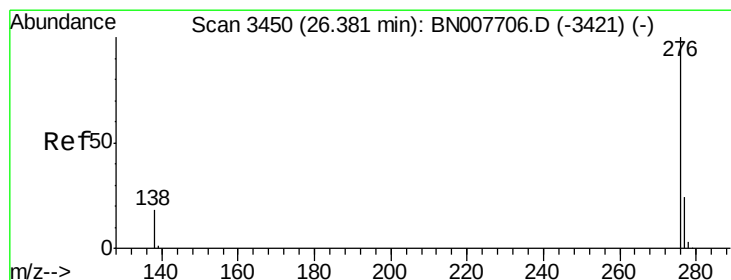
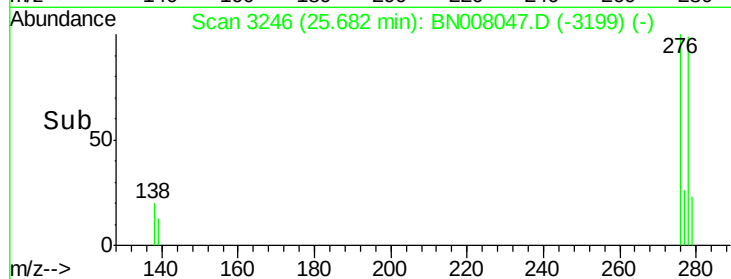
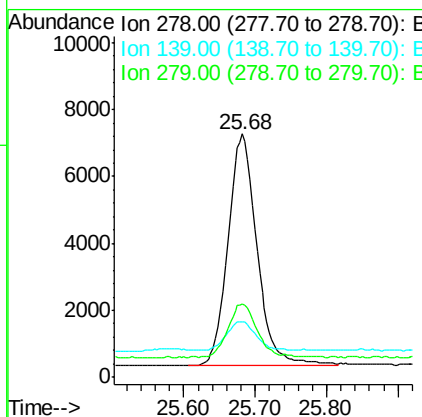
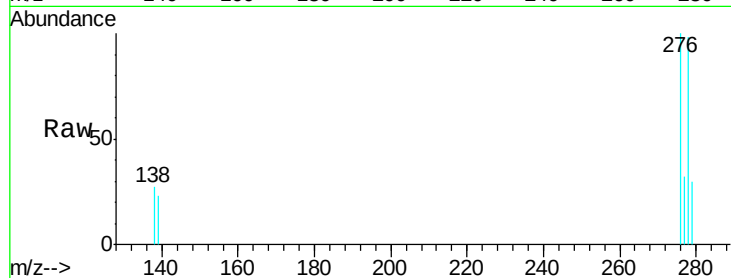
#38  
Dibenzo(a,h)anthracene  
Concen: 0.260 ng  
RT: 25.68 min Scan# 3246  
Delta R.T. -0.04 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

Instrument :  
BNA\_N  
ClientSampleId :  
PB123460BS

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 19593 |       |       |
| 139     | 23.0  | 11.8  | 17.6# |       |
| 279     | 30.2  | 19.4  | 29.2# |       |

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#39  
Benzo(g,h,i)perylene  
Concen: 0.271 ng  
RT: 26.35 min Scan# 3440  
Delta R.T. -0.03 min  
Lab File: BN008047.D  
Acq: 06 Oct 2019 06:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 20212 |       |       |
| 277     | 29.6  | 19.8  | 29.8  |       |
| 138     | 23.6  | 15.1  | 22.7# |       |

