

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070219\  
 Data File : BN006702.D  
 Acq On : 02 Jul 2019 21:11  
 Operator : HP/JU  
 Sample : K3505-03MSD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-013-B212-062019MSD

Manual Integrations  
 APPROVED

mohammad  
 7/5/2019 8:42:31 AM

Quant Time: Jul 05 06:04:14 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN070219.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jul 05 05:30:28 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 5057     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.39 | 136  | 19196    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.27 | 164  | 9531     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.03 | 188  | 18618    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.25 | 240  | 13849    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.48 | 264  | 13573    | 0.40 | ng    | -0.03    |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.24  | 112 | 3665  | 0.27 | ng | 0.00  |
| 5) Phenol-d6                | 6.81  | 99  | 5230  | 0.30 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.78  | 82  | 3694  | 0.25 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.99 | 152 | 8541  | 0.30 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.78 | 330 | 1091  | 0.23 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.88 | 172 | 10503 | 0.28 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.07 | 212 | 13091 | 0.25 | ng | -0.01 |
| 29) Terphenyl-d14           | 19.67 | 244 | 9215  | 0.29 | ng | 0.00  |

#### Target Compounds

|                                |       |     |         |       |    | Qvalue |
|--------------------------------|-------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.17  | 88  | 1771    | 0.224 | ng | # 62   |
| 3) n-Nitrosodimethylamine      | 3.49  | 42  | 1599    | 0.268 | ng | # 84   |
| 6) bis(2-Chloroethyl)ether     | 7.05  | 93  | 4012    | 0.273 | ng | 93     |
| 9) Naphthalene                 | 10.44 | 128 | 39604   | 0.754 | ng | 98     |
| 10) Hexachlorobutadiene        | 10.72 | 225 | 2849    | 0.268 | ng | # 99   |
| 12) 2-Methylnaphthalene        | 12.07 | 142 | 17265   | 0.476 | ng | 99     |
| 16) Acenaphthylene             | 13.99 | 152 | 20043   | 0.422 | ng | 99     |
| 17) Acenaphthene               | 14.32 | 154 | 24096   | 0.795 | ng | 99     |
| 18) Fluorene                   | 15.32 | 166 | 37897   | 1.008 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.22 | 248 | 3169    | 0.289 | ng | 96     |
| 21) Hexachlorobenzene          | 16.33 | 284 | 3636    | 0.279 | ng | 100    |
| 22) Pentachlorophenol          | 16.73 | 266 | 202     | 0.227 | ng | 93     |
| 23) Phenanthrene               | 17.06 | 178 | 393857  | 7.340 | ng | 100    |
| 24) Anthracene                 | 17.15 | 178 | 100330  | 2.069 | ng | 98     |
| 26) Fluoranthene               | 19.10 | 202 | 462256  | 7.336 | ng | 99     |
| 28) Pyrene                     | 19.46 | 202 | 366121  | 6.607 | ng | 97     |
| 30) Benzo(a)anthracene         | 21.23 | 228 | 193665  | 4.055 | ng | 99     |
| 31) Chrysene                   | 21.28 | 228 | 149276  | 3.032 | ng | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 21.15 | 149 | 17429   | 0.122 | ng | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.70 | 276 | 99119   | 1.683 | ng | 97     |
| 35) Benzo(b)fluoranthene       | 22.81 | 252 | 190563  | 4.374 | ng | # 94   |
| 36) Benzo(k)fluoranthene       | 22.85 | 252 | 72839m  | 1.542 | ng |        |
| 37) Benzo(a)pyrene             | 23.38 | 252 | 129847m | 3.077 | ng |        |
| 38) Dibenzo(a,h)anthracene     | 25.71 | 278 | 33960   | 0.810 | ng | 97     |
| 39) Benzo(g,h,i)perylene       | 26.39 | 276 | 95845   | 2.221 | ng | 96     |

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

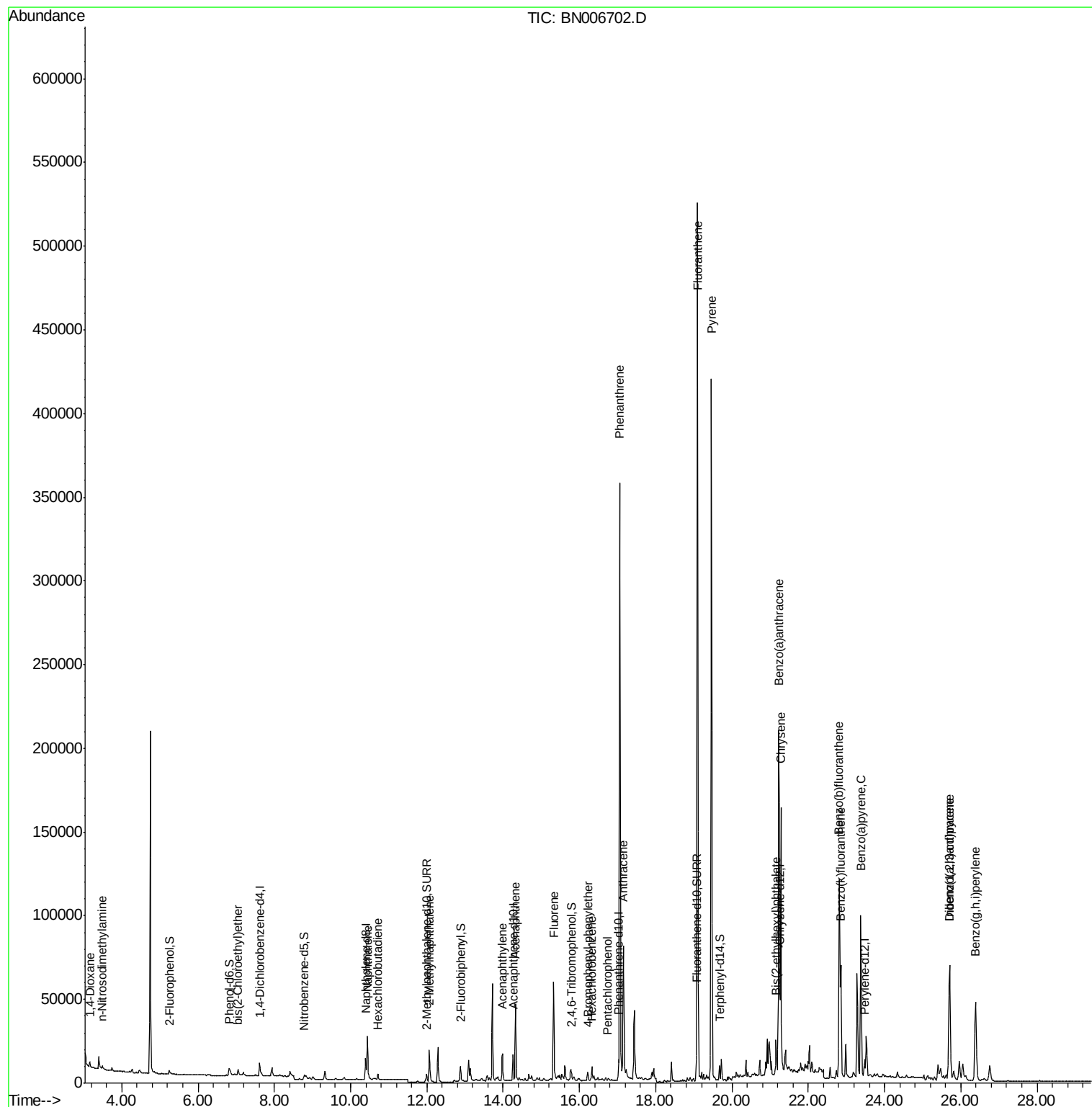
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070219\  
Data File : BN006702.D  
Acq On : 02 Jul 2019 21:11  
Operator : HP/JU  
Sample : K3505-03MSD  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

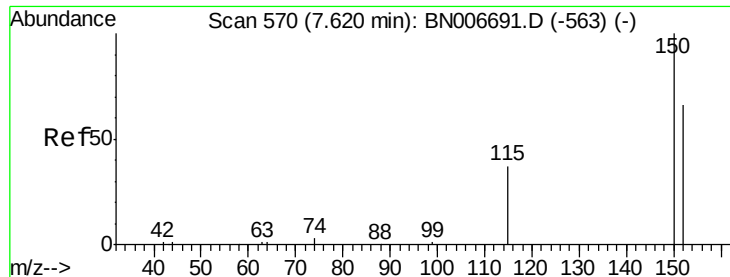
Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

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Quant Time: Jul 05 06:04:14 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN070219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 05 05:30:28 2019  
Response via : Initial Calibration





#1

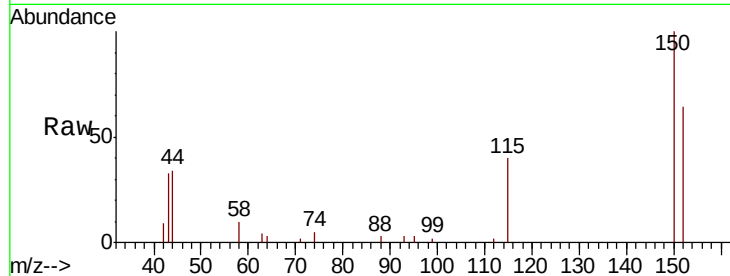
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.61 min Scan# 569  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.9 | 120.6 | 181.0 |
| 115     | 62.1  | 51.0  | 76.6  |

Manual Integrations  
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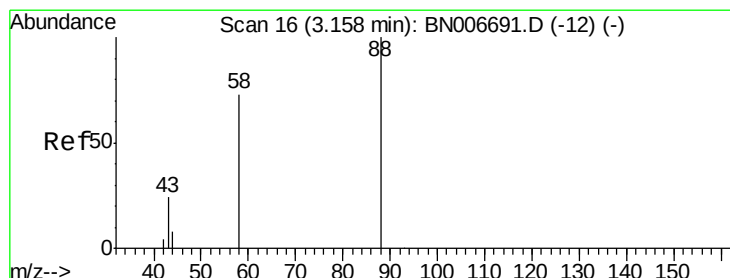
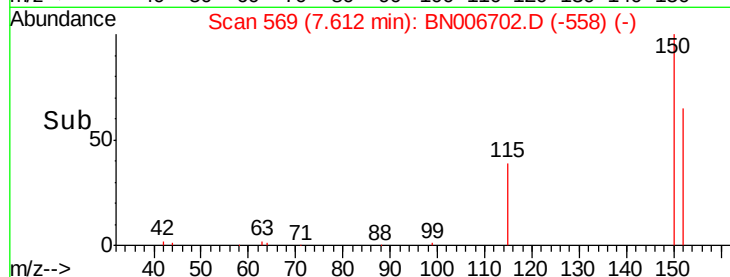
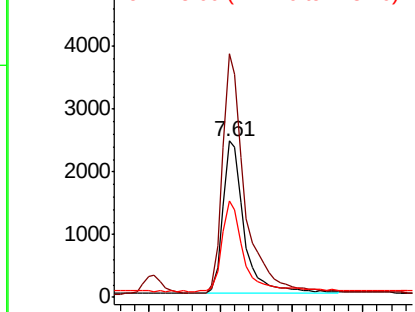


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 0.224 ng  
RT: 3.17 min Scan# 17  
Delta R.T. 0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

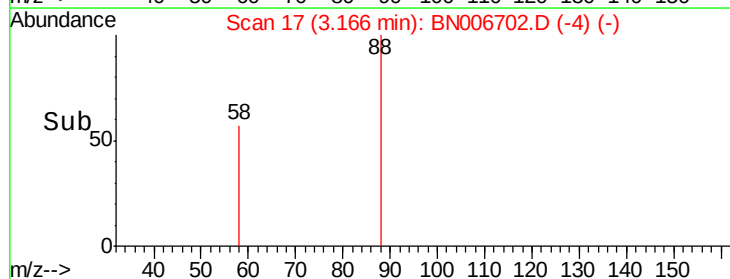
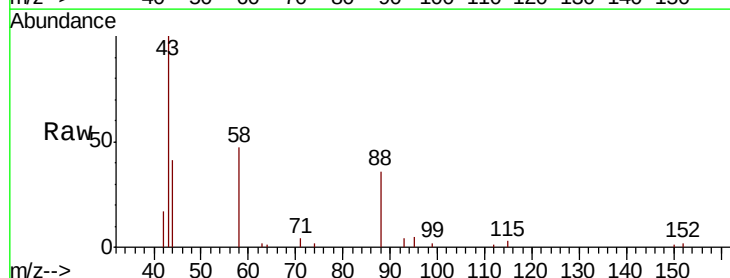
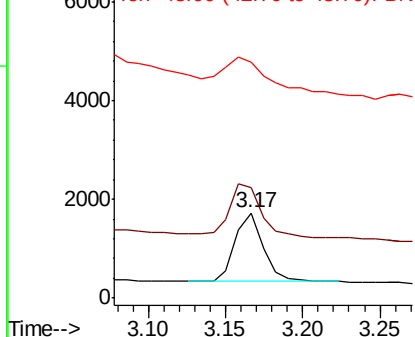
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 89.0  | 61.1  | 91.7  |
| 43      | 90.6  | 32.4  | 48.6  |

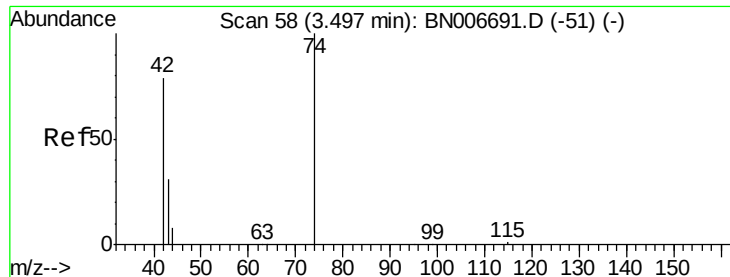
Abundance

Ion 88.00 (87.70 to 88.70): BNC

Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.268 ng

RT: 3.49 min Scan# 57

Delta R.T. -0.01 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

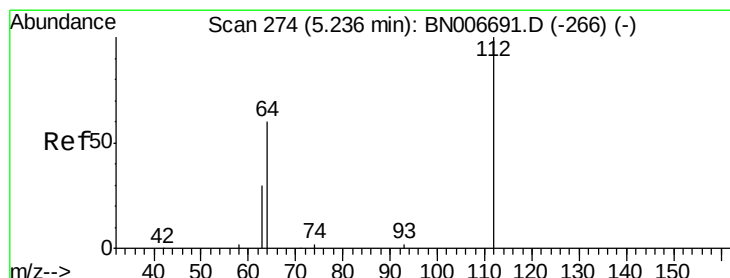
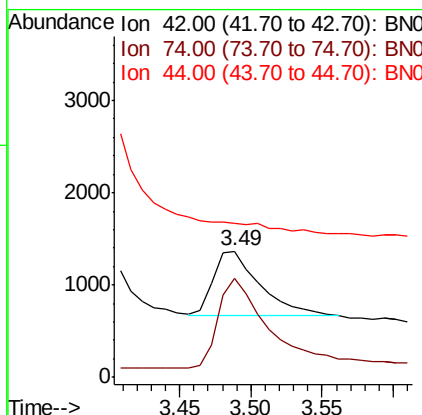
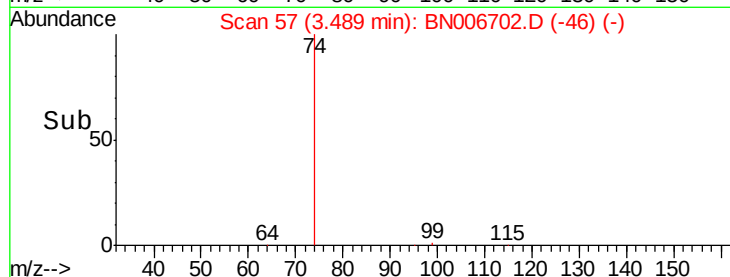
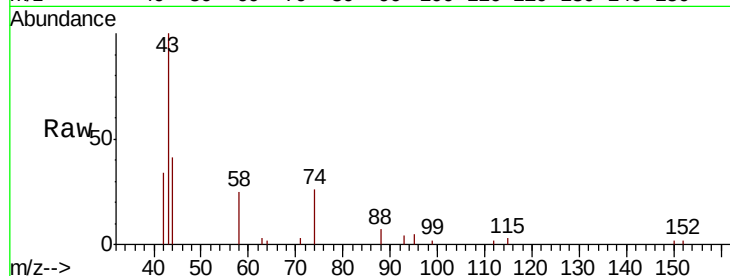
ClientSampleId :

PST-013-B212-062019MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 1599  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 151.5 | 106.6 | 160.0 |
| 44       | 0.0   | 8.0   | 12.0# |

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#4

2-Fluorophenol

Concen: 0.267 ng

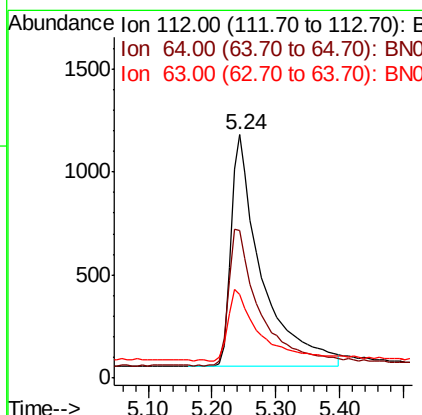
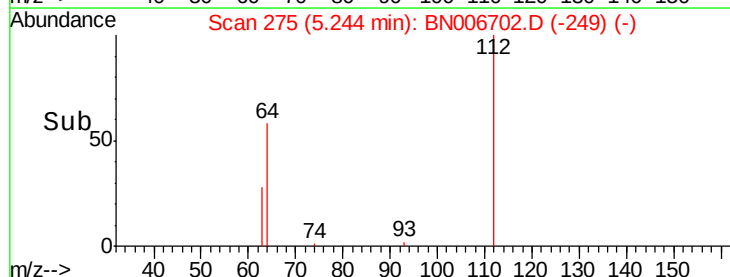
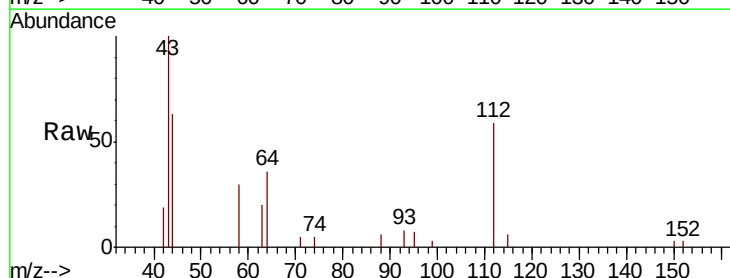
RT: 5.24 min Scan# 275

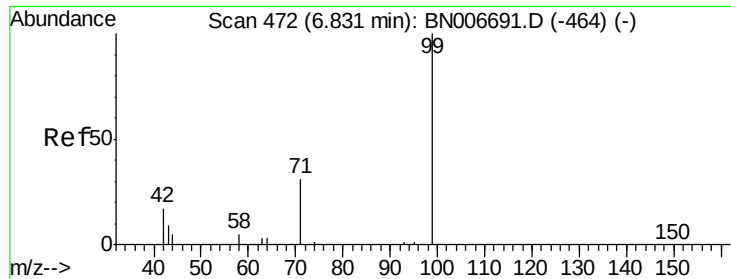
Delta R.T. 0.01 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 3665  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 61.1  | 49.8  | 74.6  |
| 63       | 31.8  | 25.8  | 38.6  |





#5

Phenol-d6

Concen: 0.301 ng

RT: 6.81 min Scan# 470

Delta R.T. -0.02 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

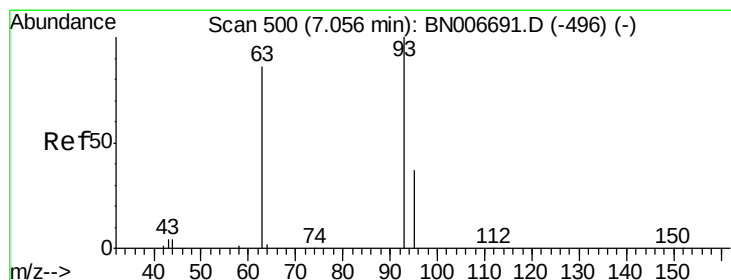
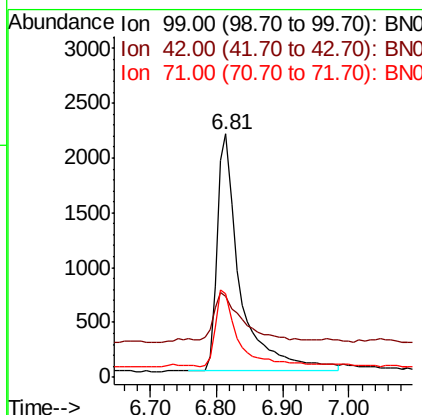
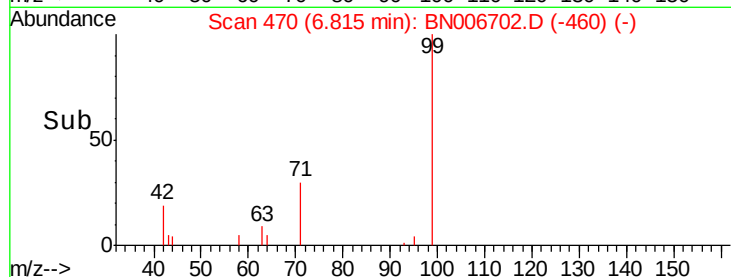
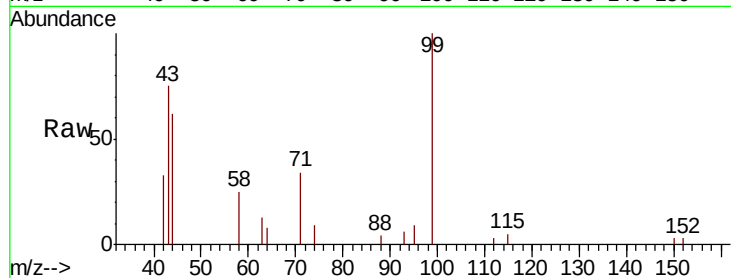
ClientSampleId :

PST-013-B212-062019MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 5230  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.7  | 16.6  | 25.0  |
| 71       | 30.7  | 26.0  | 39.0  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.273 ng

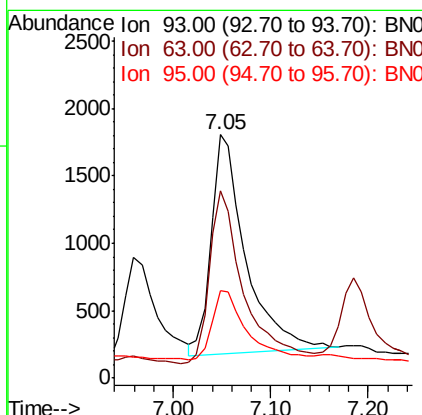
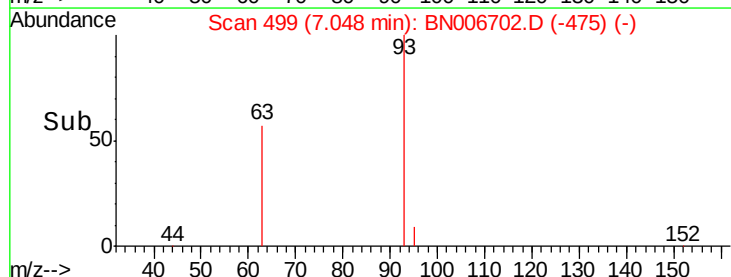
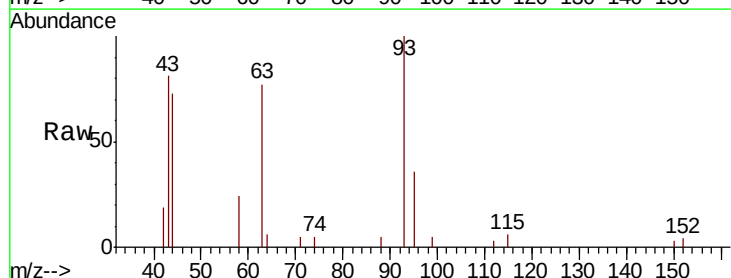
RT: 7.05 min Scan# 499

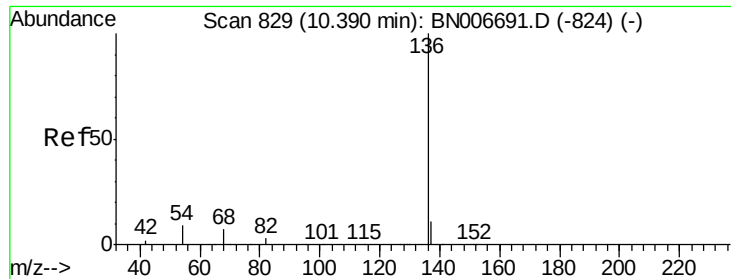
Delta R.T. -0.01 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 4012  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 79.3  | 58.6  | 87.8  |
| 95       | 31.8  | 28.3  | 42.5  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.39 min Scan# 829

Delta R.T. -0.00 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

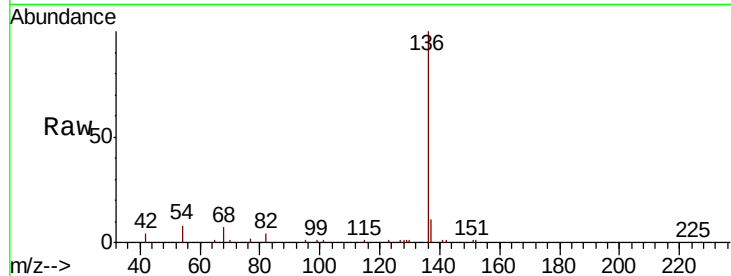
ClientSampleId :

PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.5  | 9.3   | 13.9  |
| 54      | 8.3   | 8.4   | 12.6  |
| 68      | 6.6   | 6.8   | 10.2  |

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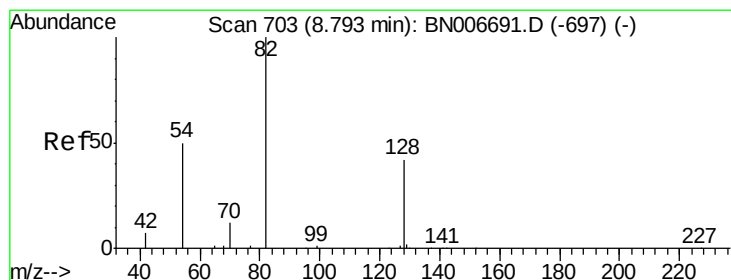
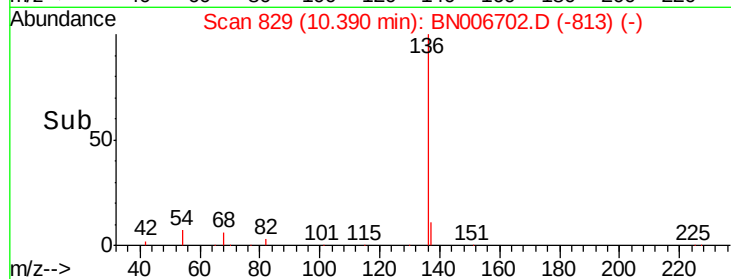
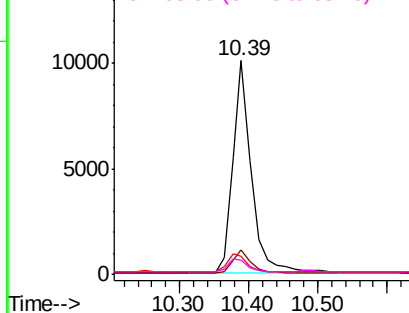
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.251 ng

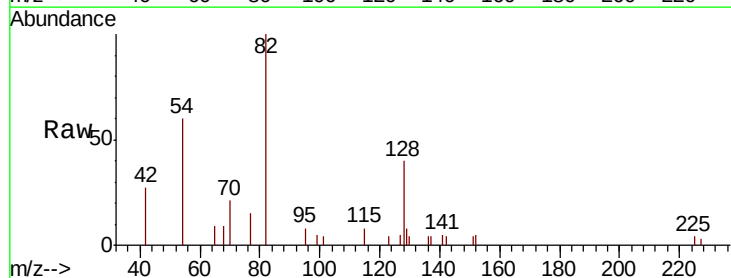
RT: 8.78 min Scan# 702

Delta R.T. -0.01 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 39.5  | 36.1  | 54.1  |
| 54      | 59.7  | 44.5  | 66.7  |

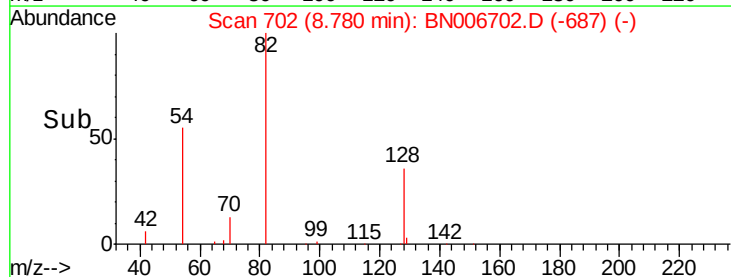
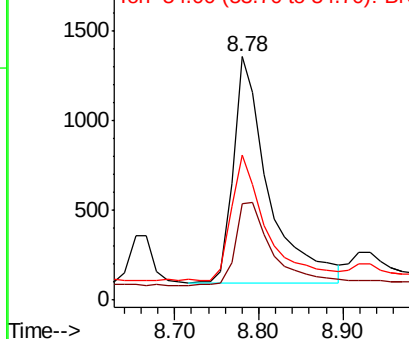


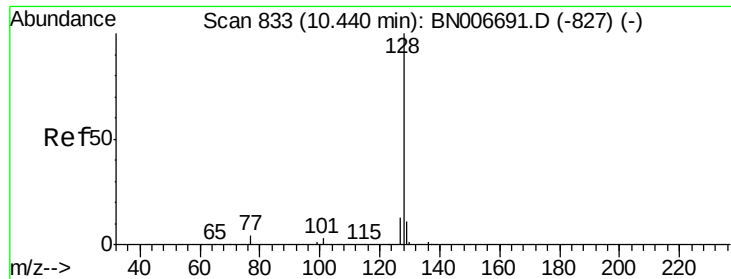
Abundance

Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.754 ng

RT: 10.44 min Scan# 833

Delta R.T. -0.00 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

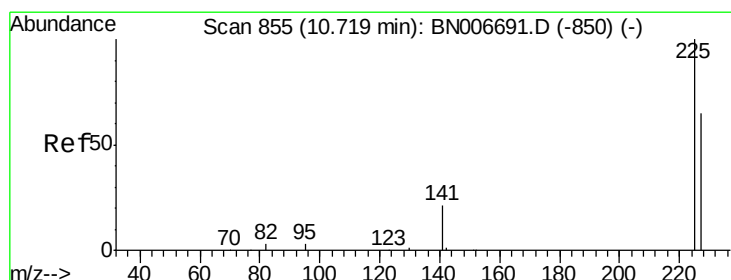
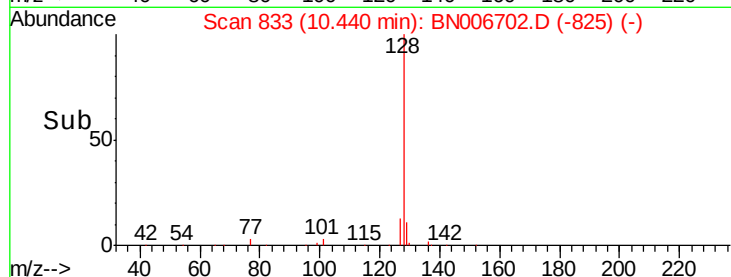
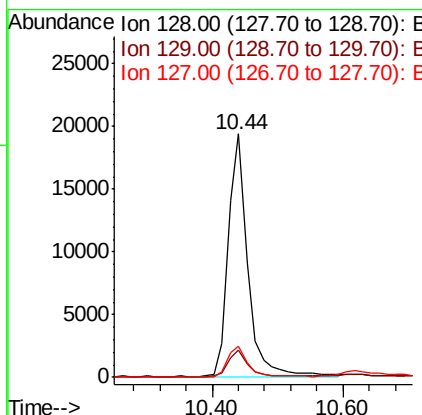
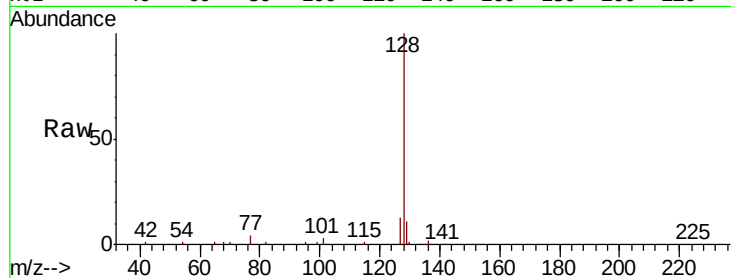
ClientSampleId :

PST-013-B212-062019MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 39604 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.2  | 9.6   | 14.4  |
| 127      | 13.0  | 11.0  | 16.4  |

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#10

Hexachlorobutadiene

Concen: 0.268 ng

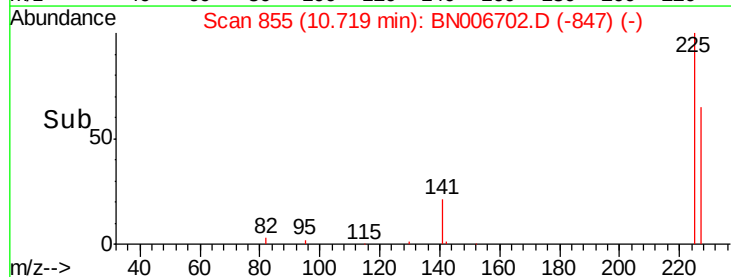
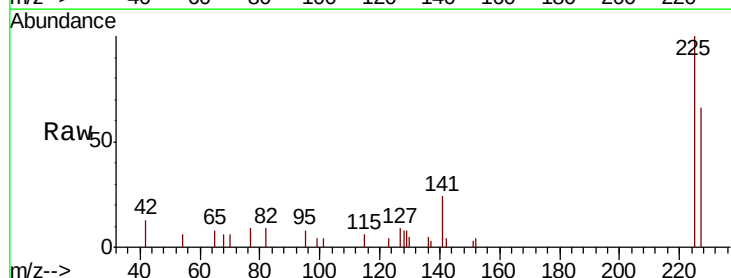
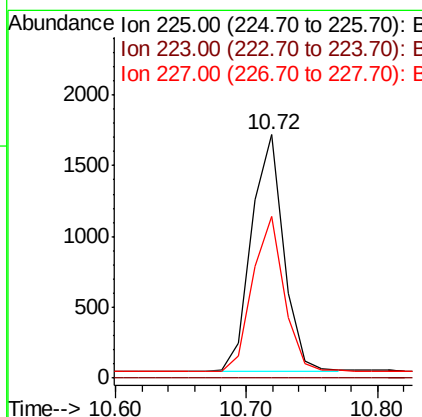
RT: 10.72 min Scan# 855

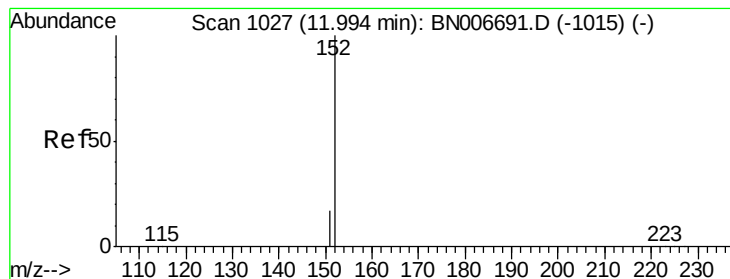
Delta R.T. -0.00 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 2849  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 64.3  | 50.9  | 76.3  |





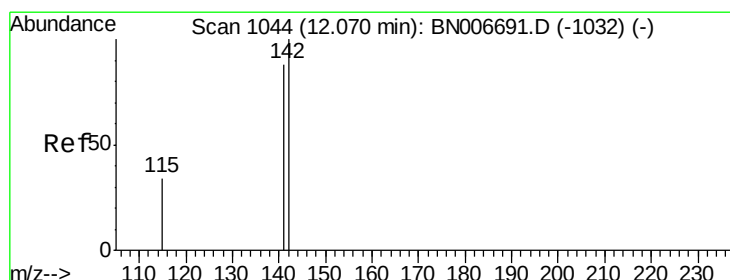
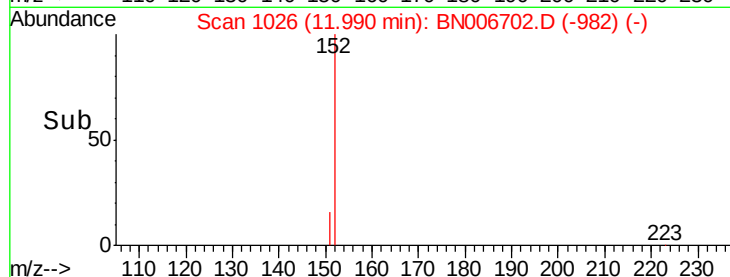
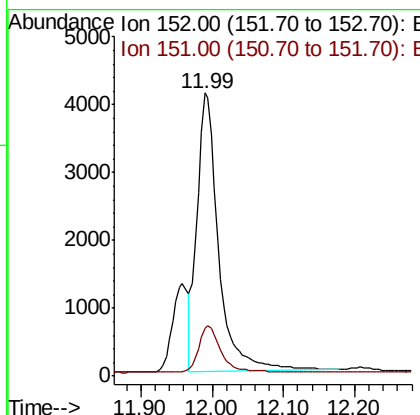
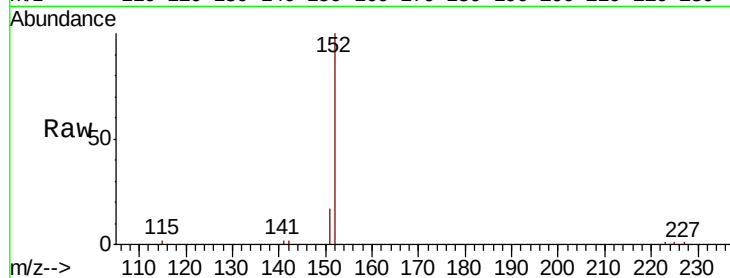
#11  
2-Methylnaphthalene-d10  
Concen: 0.296 ng  
RT: 11.99 min Scan# 1026  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 17.6  | 14.9  | 22.3  |

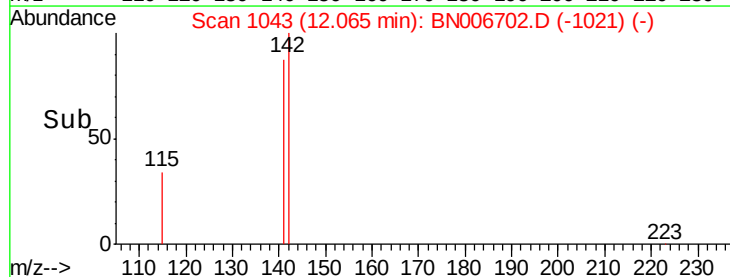
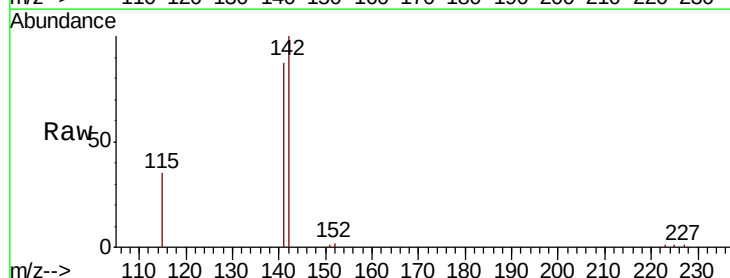
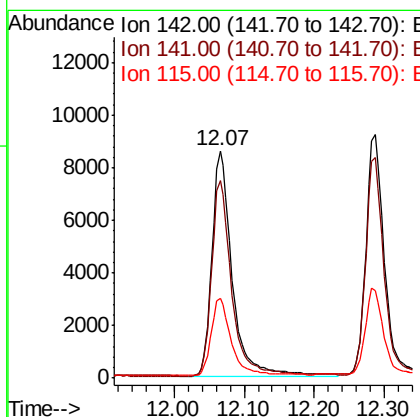
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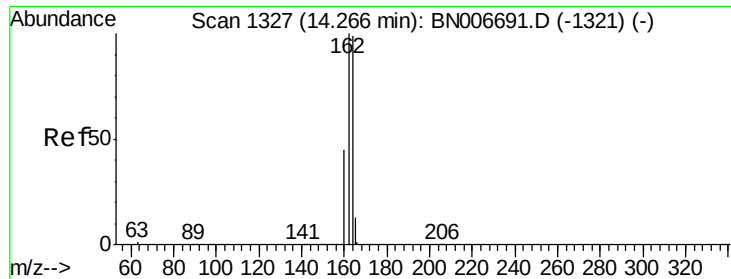


#12  
2-Methylnaphthalene  
Concen: 0.476 ng  
RT: 12.07 min Scan# 1043  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.1  | 70.3  | 105.5 |
| 115     | 35.2  | 28.9  | 43.3  |







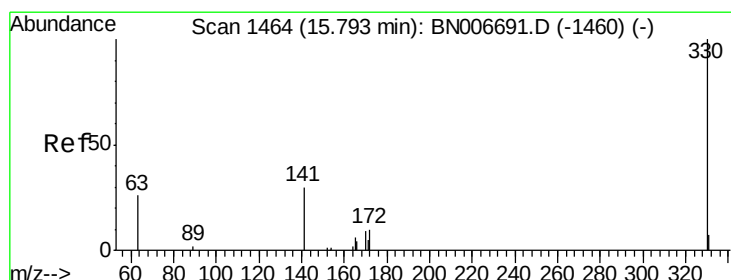
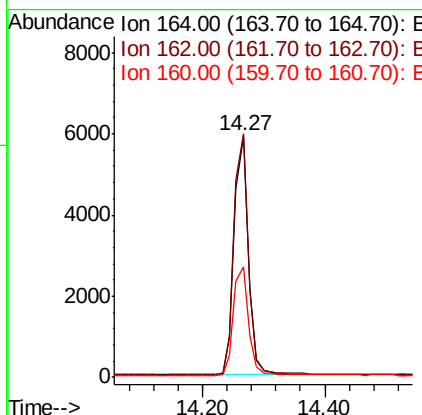
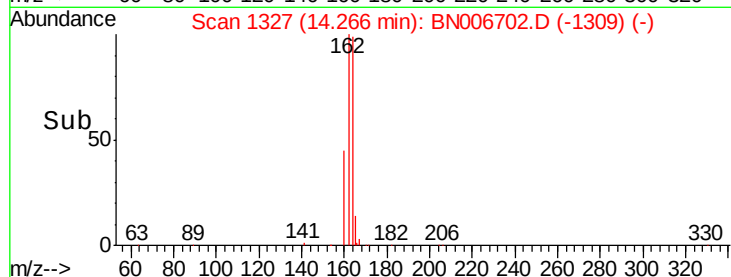
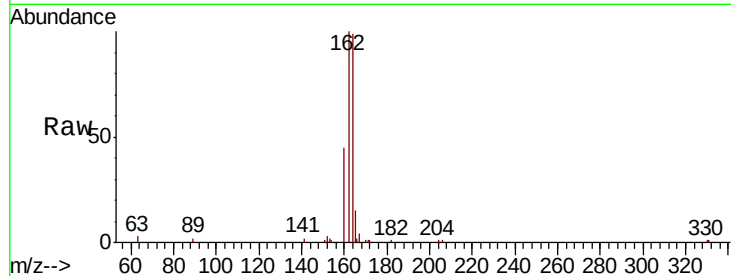
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.27 min Scan# 1327  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 80.8  | 121.2 |
| 160     | 45.7  | 37.0  | 55.6  |

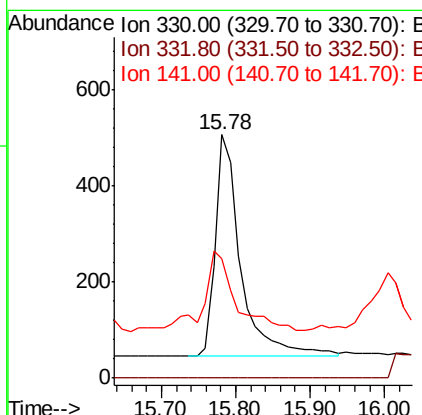
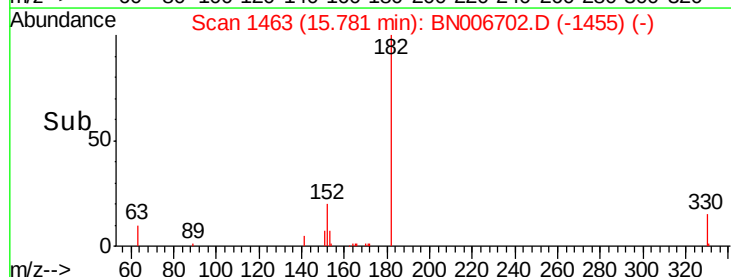
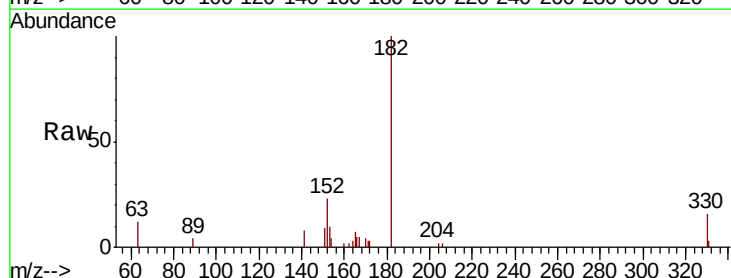
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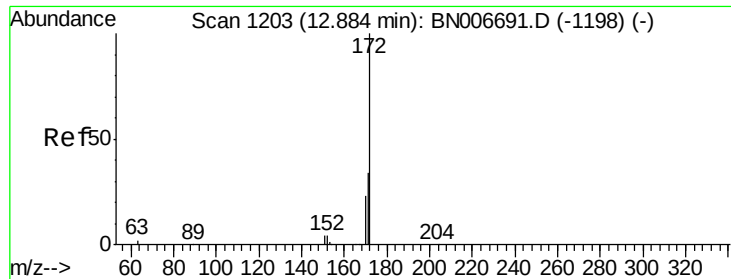
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#14  
2,4,6-Tribromophenol  
Concen: 0.233 ng  
RT: 15.78 min Scan# 1463  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 43.1  | 24.8  | 37.2# |





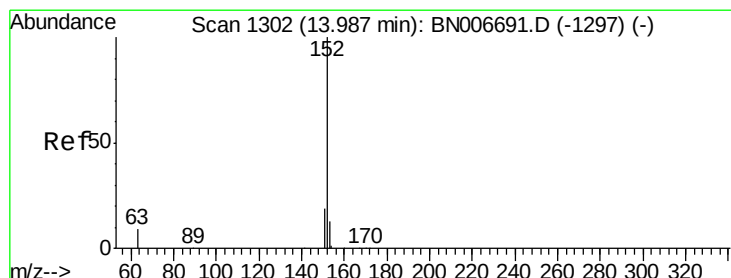
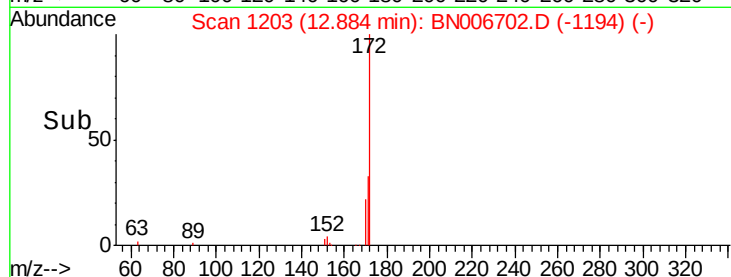
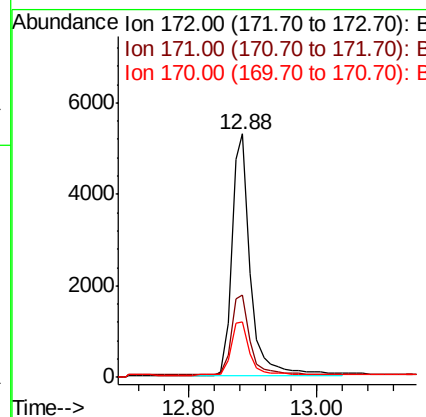
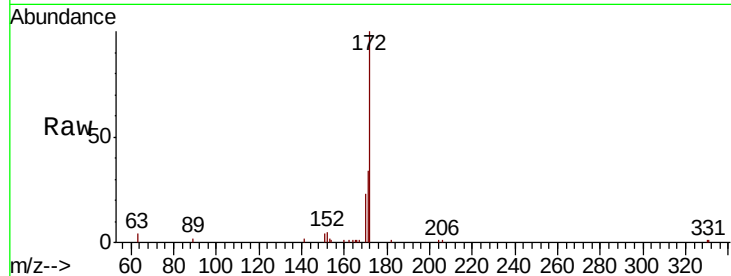
#15  
2-Fluorobiphenyl  
Concen: 0.282 ng  
RT: 12.88 min Scan# 1203  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.6  | 27.8  | 41.6  |
| 170     | 22.6  | 18.9  | 28.3  |

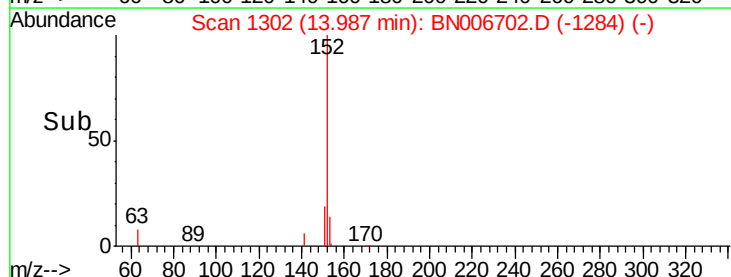
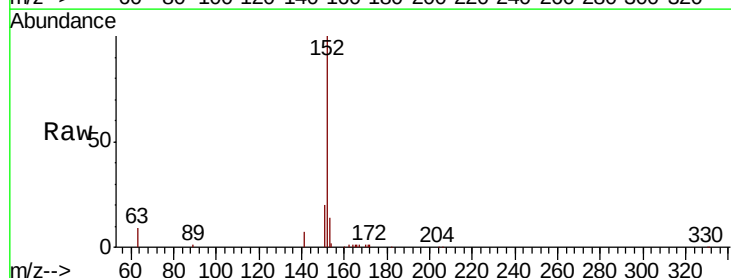
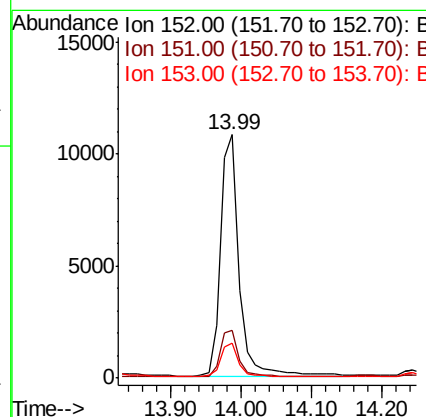
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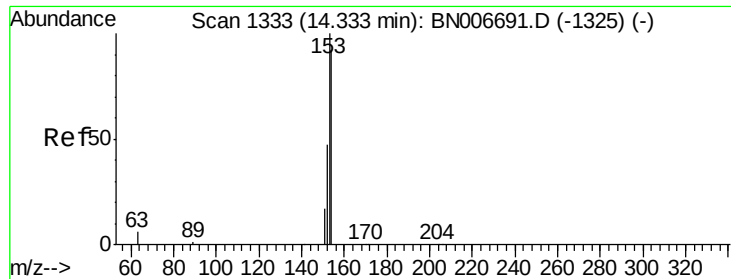
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#16  
Acenaphthylene  
Concen: 0.422 ng  
RT: 13.99 min Scan# 1302  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.7  | 15.7  | 23.5  |
| 153     | 13.8  | 10.6  | 15.8  |





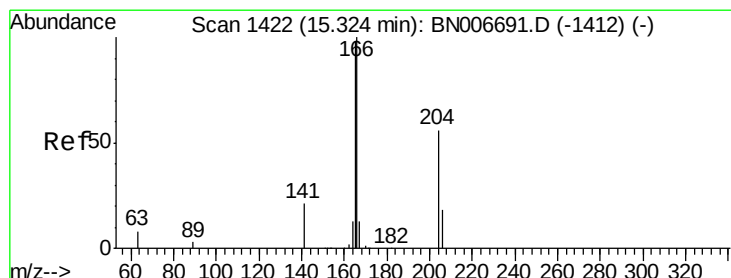
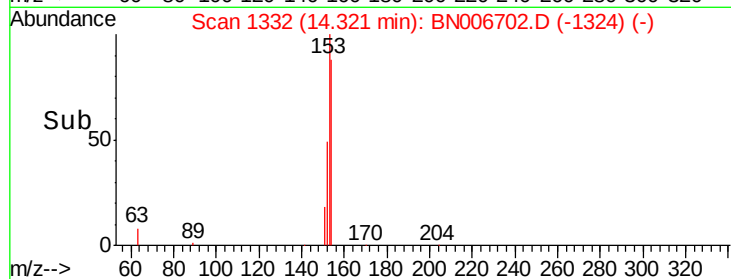
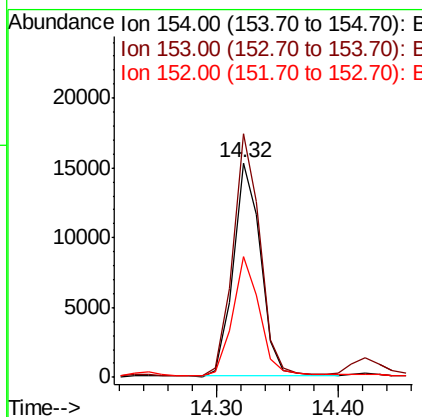
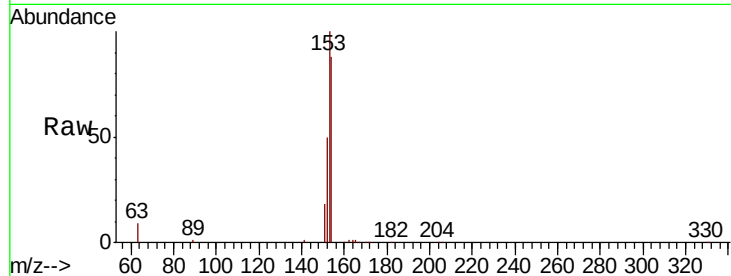
#17  
Acenaphthene  
Concen: 0.795 ng  
RT: 14.32 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.2 | 88.9  | 133.3 |
| 152     | 54.7  | 42.8  | 64.2  |

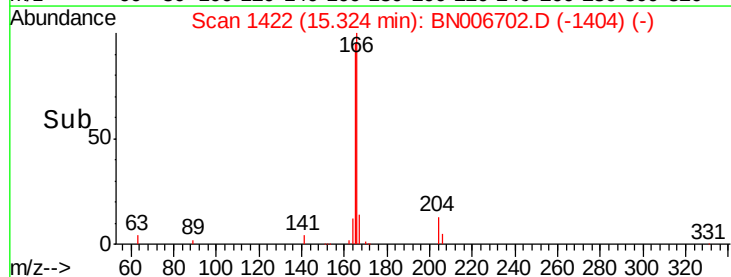
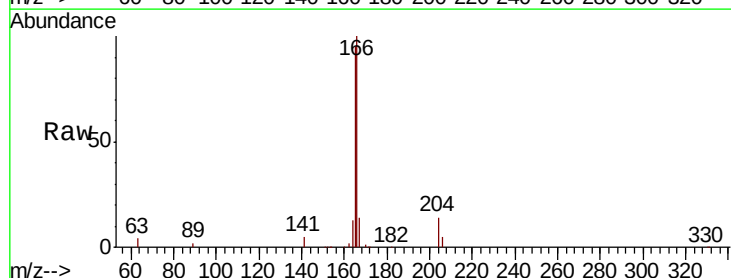
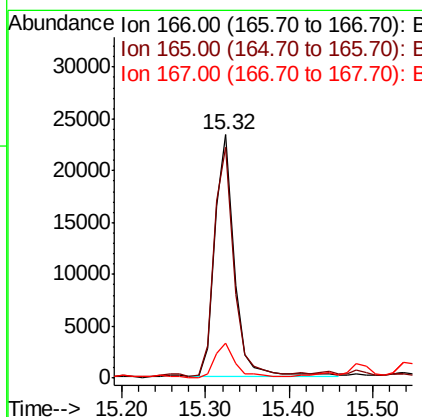
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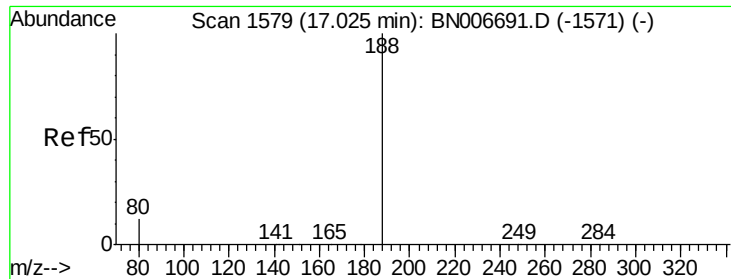
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#18  
Fluorene  
Concen: 1.008 ng  
RT: 15.32 min Scan# 1422  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 95.5  | 78.0  | 117.0 |
| 167     | 14.4  | 10.7  | 16.1  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.03 min Scan# 1579

Delta R.T. -0.00 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

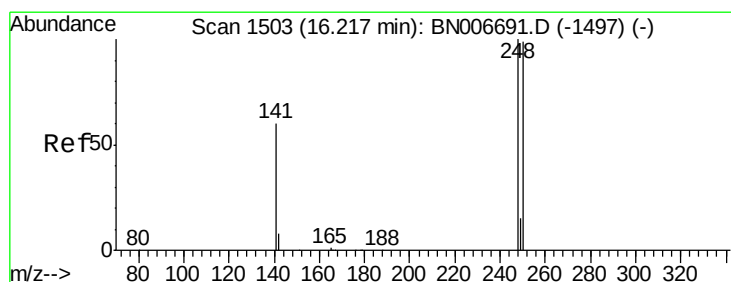
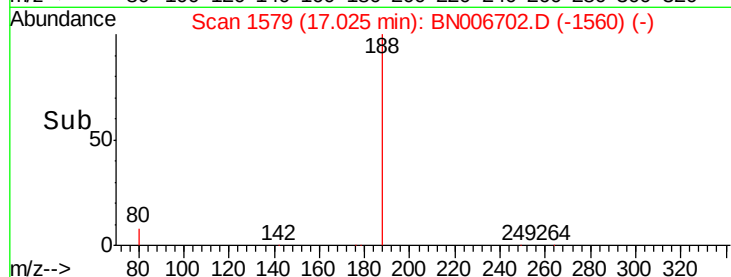
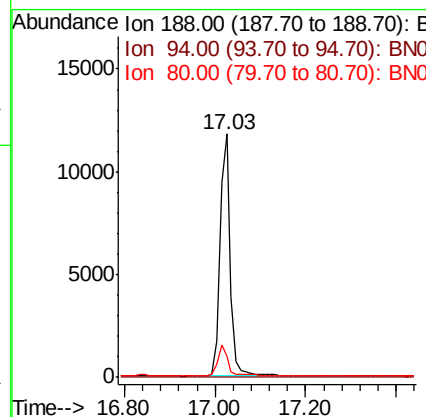
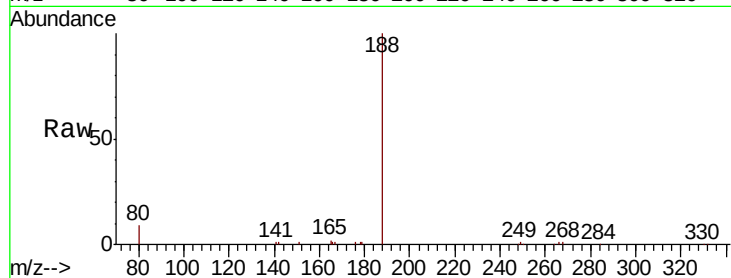
ClientSampleId :

PST-013-B212-062019MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 18618 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 8.7   | 10.3  | 15.5# |

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#20

4-Bromophenyl-phenylether

Concen: 0.289 ng

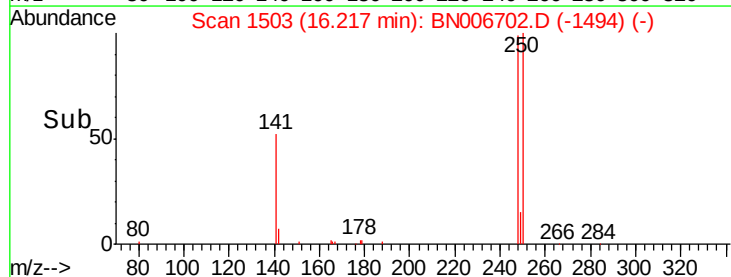
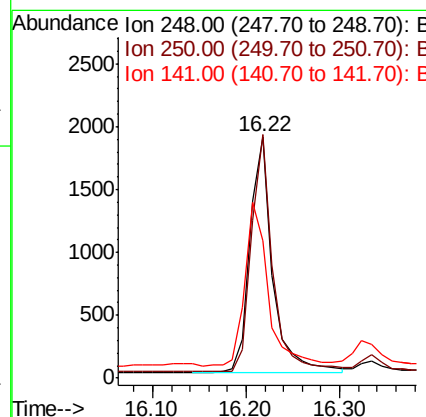
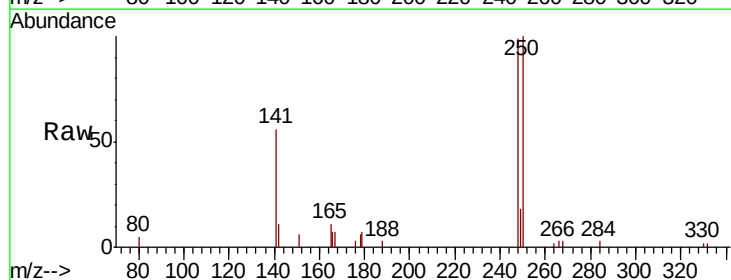
RT: 16.22 min Scan# 1503

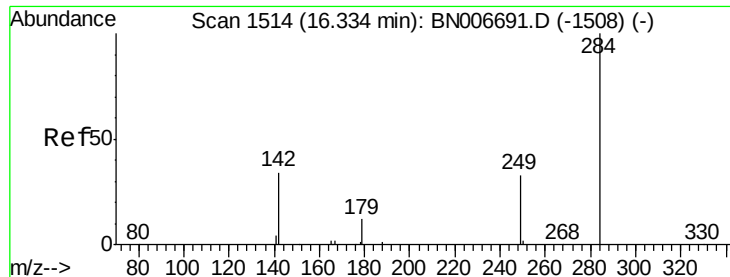
Delta R.T. -0.00 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 3169  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 100.9 | 79.0  | 118.6 |
| 141       | 56.7  | 50.2  | 75.4  |





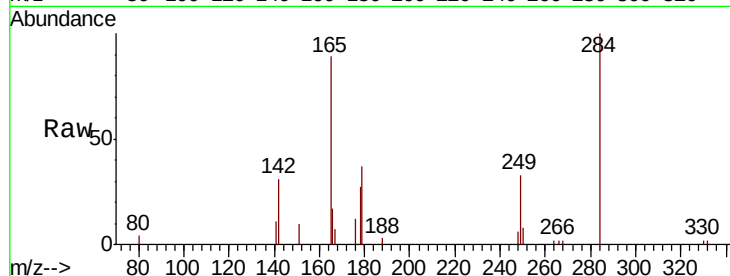
#21  
Hexachlorobenzene  
Concen: 0.279 ng  
RT: 16.33 min Scan# 1514  
Delta R.T. -0.00 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

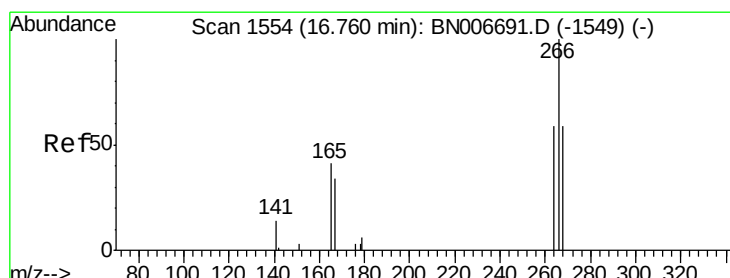
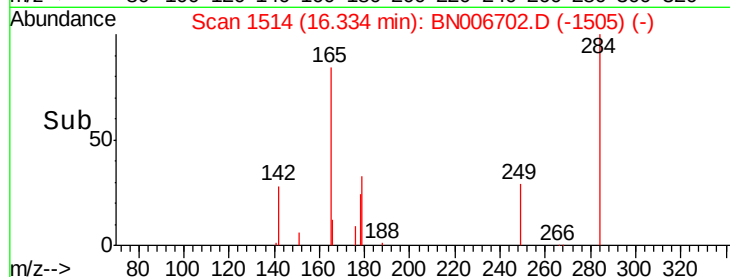
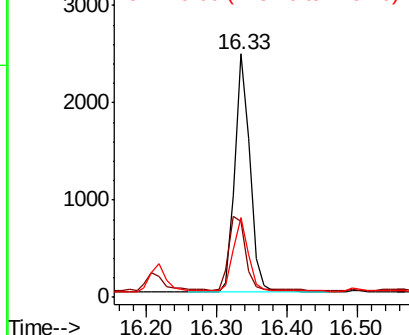
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.0  | 26.9  | 40.3  |
| 249     | 30.5  | 24.4  | 36.6  |

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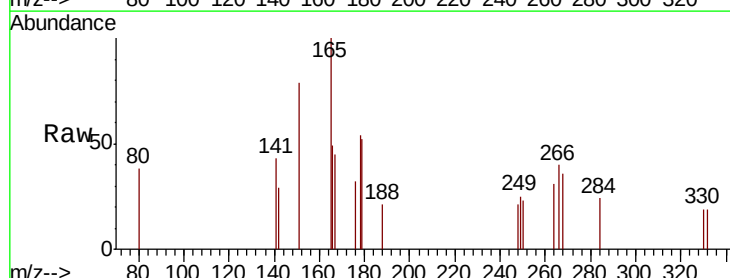


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

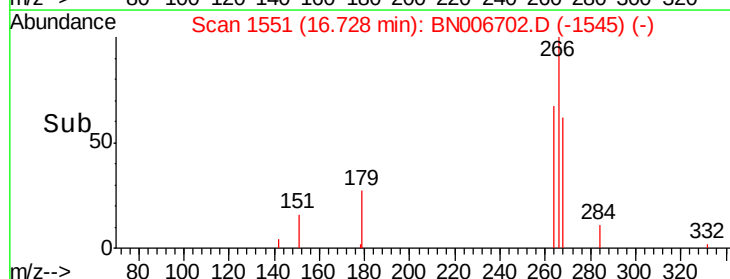
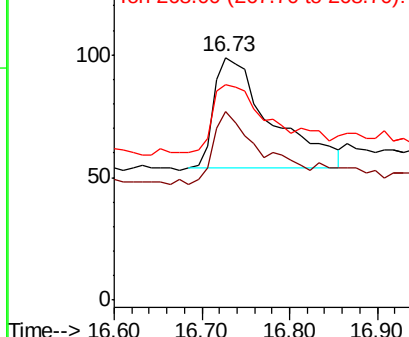


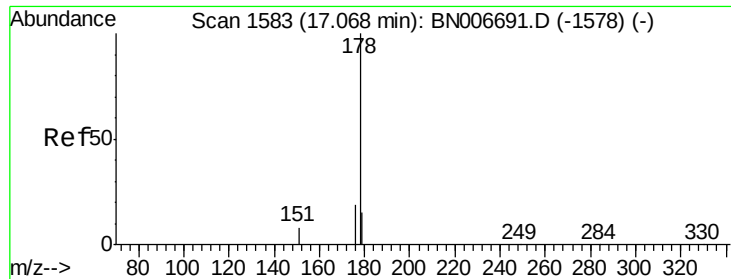
#22  
Pentachlorophenol  
Concen: 0.227 ng  
RT: 16.73 min Scan# 1551  
Delta R.T. -0.03 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 77.8  | 57.6  | 86.4  |
| 268     | 88.9  | 66.6  | 99.8  |



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





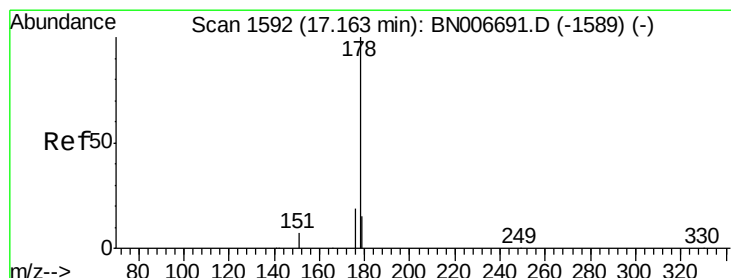
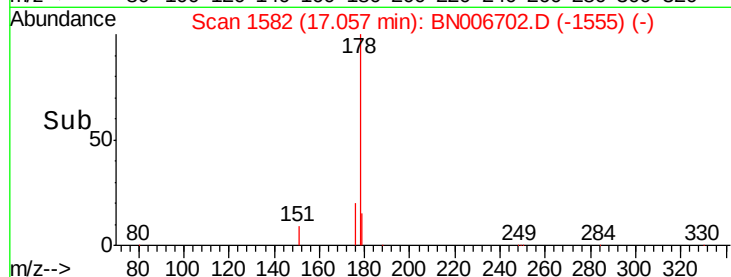
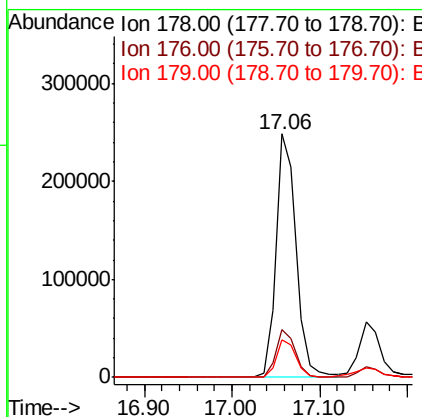
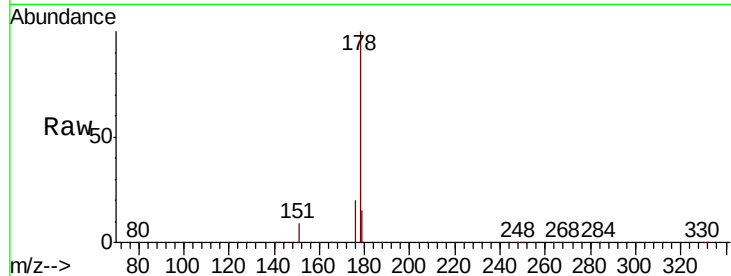
#23  
Phenanthrene  
Concen: 7.340 ng  
RT: 17.06 min Scan# 1582  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.3  | 22.9  |
| 179     | 15.3  | 12.4  | 18.6  |

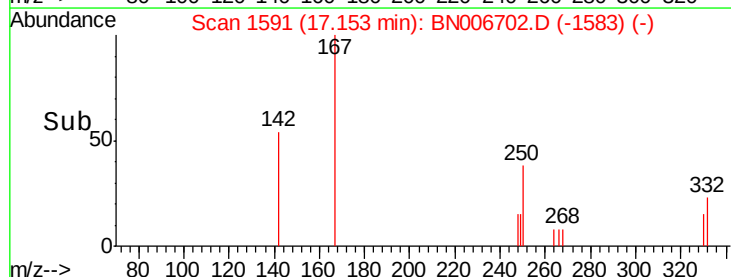
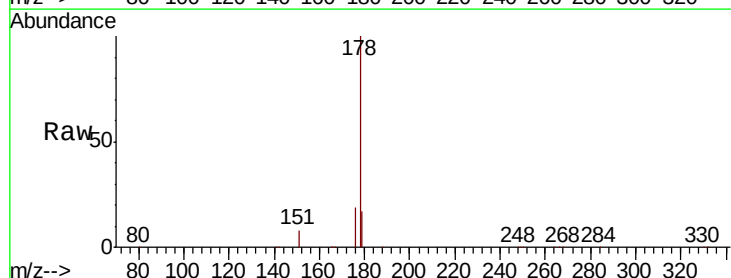
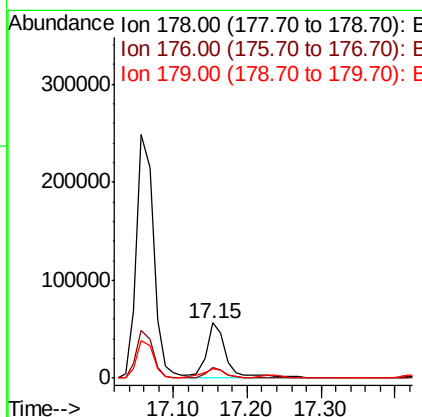
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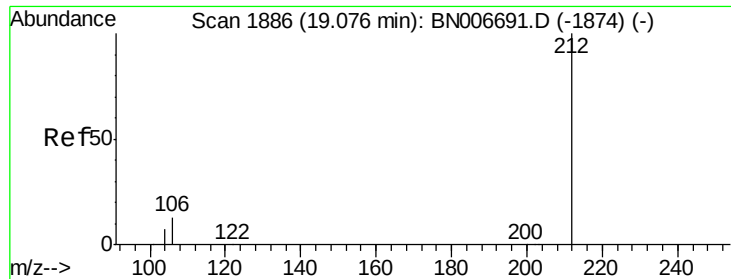
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#24  
Anthracene  
Concen: 2.069 ng  
RT: 17.15 min Scan# 1591  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.0  | 14.8  | 22.2  |
| 179     | 16.5  | 11.9  | 17.9  |





#25

Fluoranthene-d10

Concen: 0.246 ng

RT: 19.07 min Scan# 1884

Delta R.T. -0.01 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

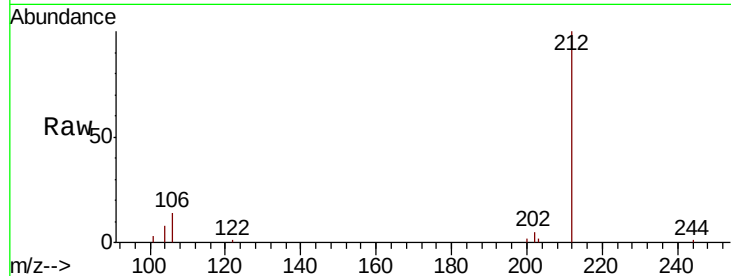
ClientSampleId :

PST-013-B212-062019MSD

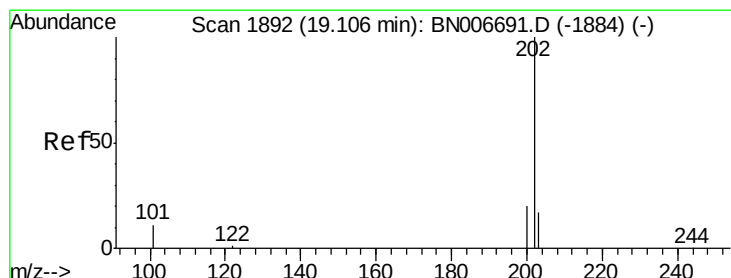
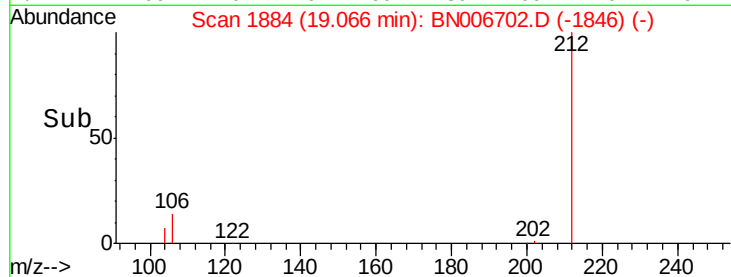
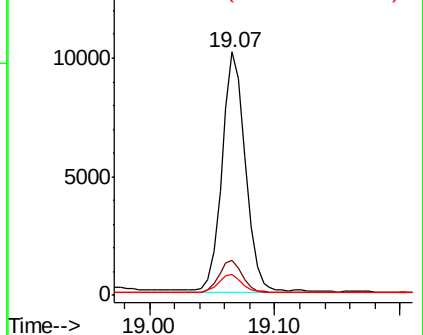
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 13091 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 14.0  | 11.0  | 16.6  |
| 104       | 7.6   | 6.1   | 9.1   |

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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



#26

Fluoranthene

Concen: 7.336 ng

RT: 19.10 min Scan# 1890

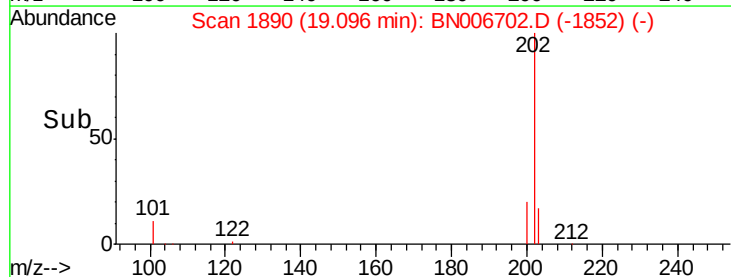
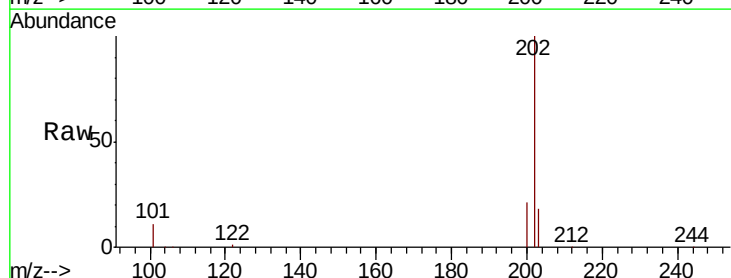
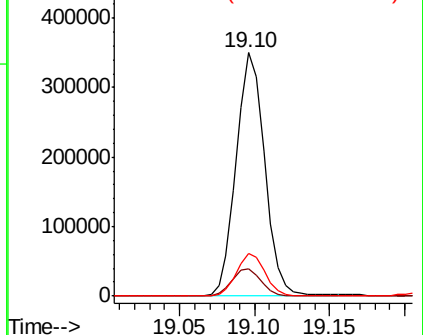
Delta R.T. -0.01 min

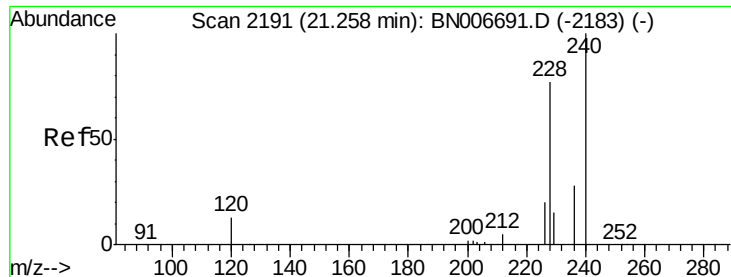
Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 462256 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 8.7   | 13.1   |
| 203       | 17.4  | 13.8  | 20.6   |

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





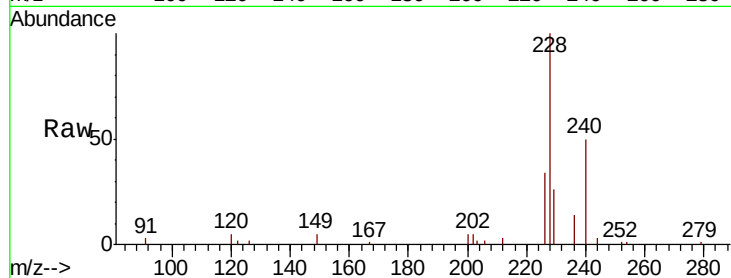
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.25 min Scan# 2190  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.1  | 12.9  | 19.3# |
| 236     | 28.0  | 23.2  | 34.8  |

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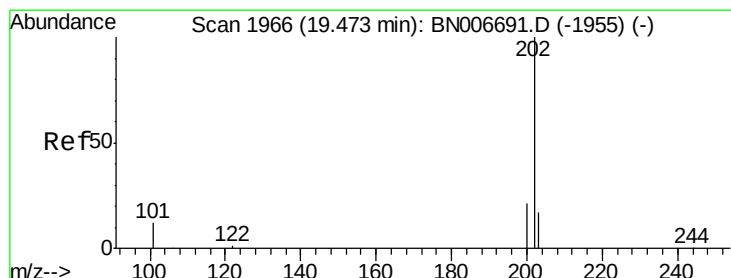
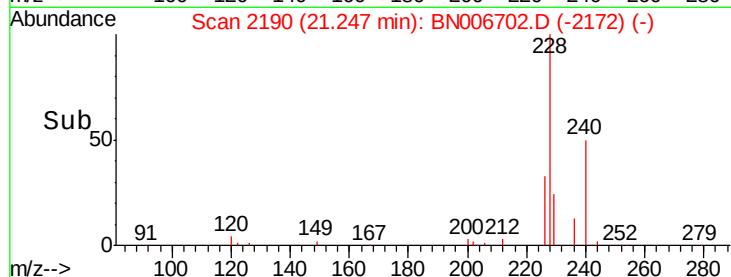
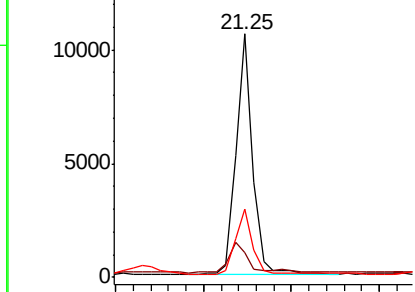


Abundance

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: 6.607 ng  
RT: 19.46 min Scan# 1964  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

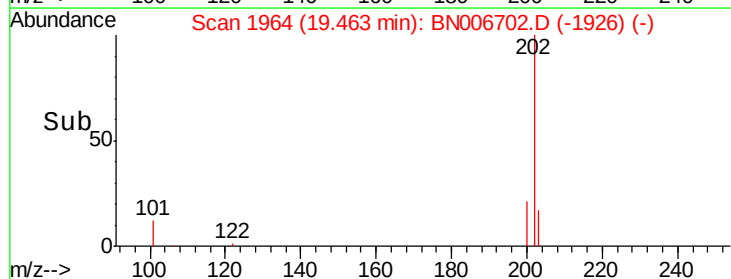
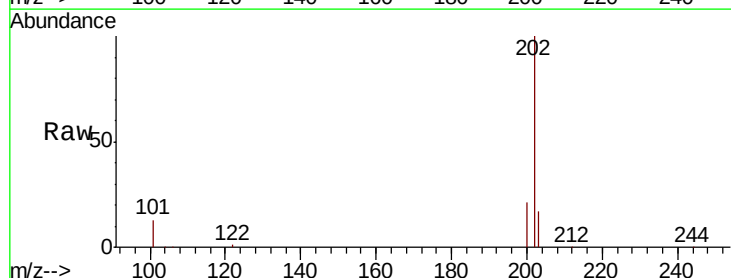
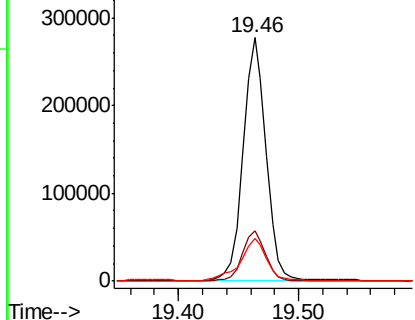
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.8  | 25.2  |
| 203     | 20.4  | 14.2  | 21.2  |

Abundance

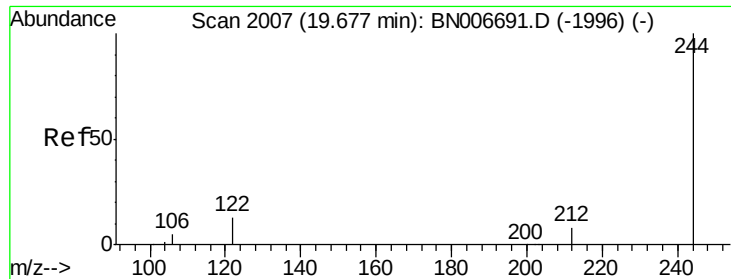
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







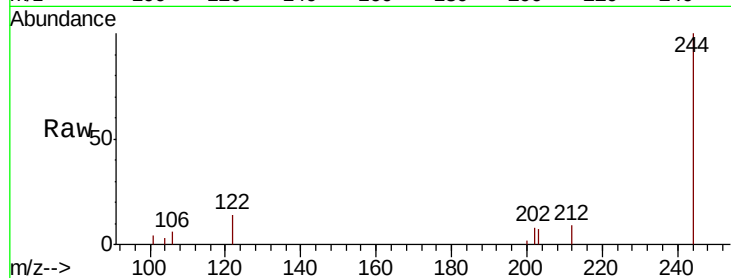
#29  
 Terphenyl-d14  
 Concen: 0.289 ng  
 RT: 19.67 min Scan# 2006  
 Delta R.T. -0.01 min  
 Lab File: BN006702.D  
 Acq: 02 Jul 2019 21:11

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-013-B212-062019MSD

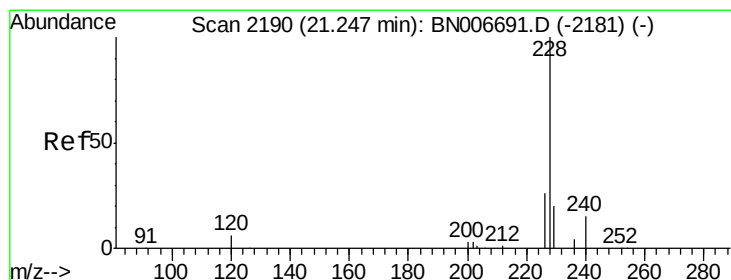
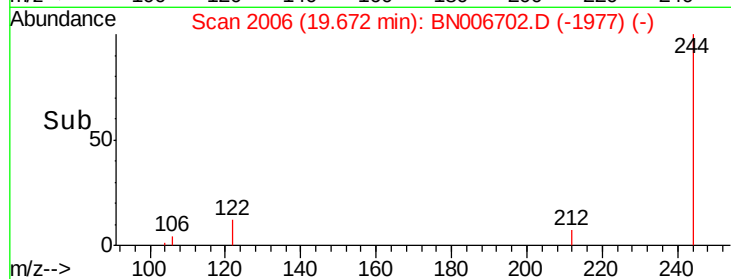
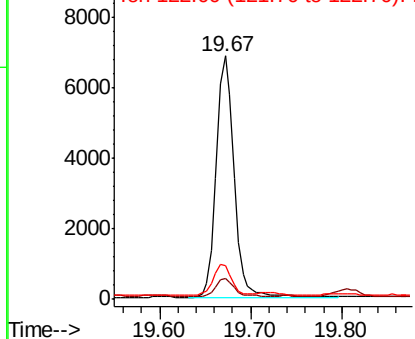
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.8   | 7.0   | 10.4  |
| 122     | 13.9  | 11.5  | 17.3  |

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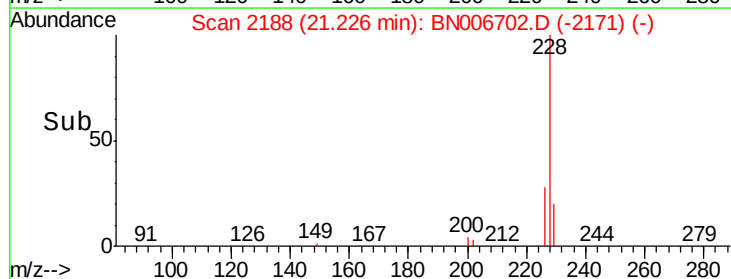
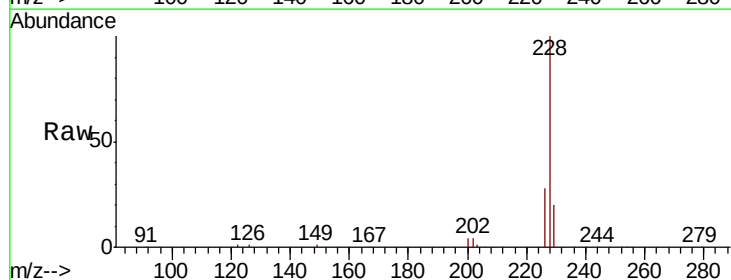
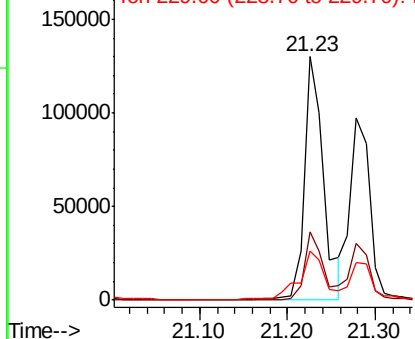
Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

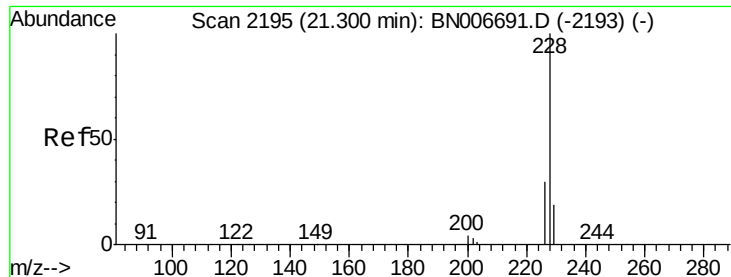


#30  
 Benzo(a)anthracene  
 Concen: 4.055 ng  
 RT: 21.23 min Scan# 2188  
 Delta R.T. -0.02 min  
 Lab File: BN006702.D  
 Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.0  | 21.5  | 32.3  |
| 229     | 20.1  | 16.2  | 24.4  |

Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E





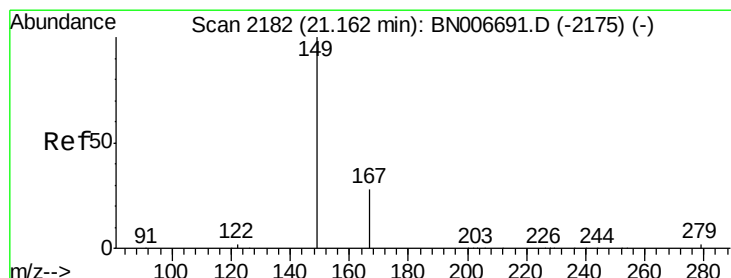
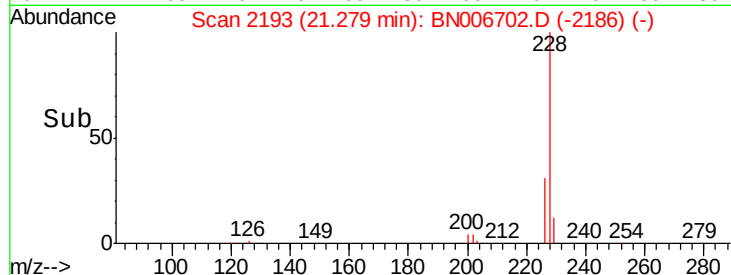
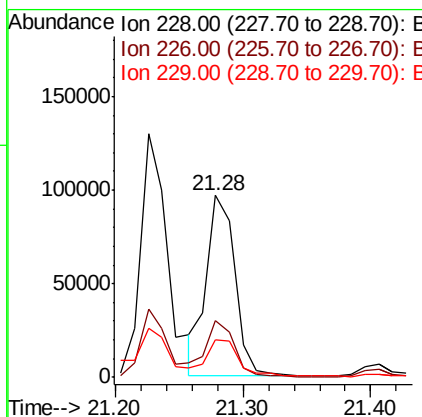
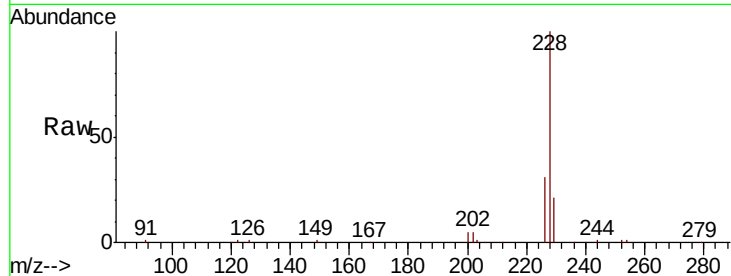
#31  
Chrysene  
Concen: 3.032 ng  
RT: 21.28 min Scan# 2193  
Delta R.T. -0.02 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 24.2  | 36.2  |
| 229     | 20.9  | 15.8  | 23.6  |

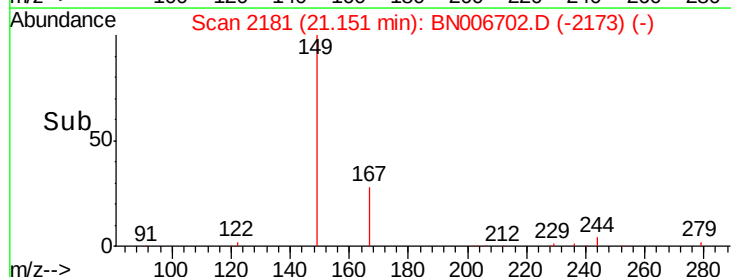
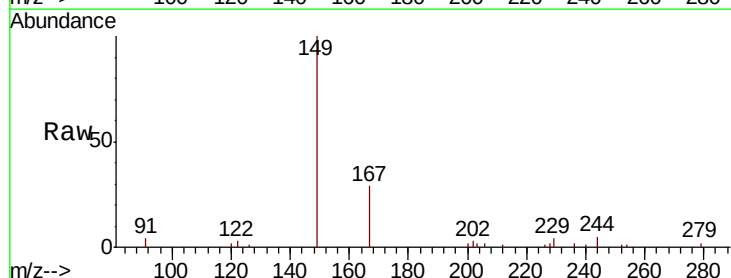
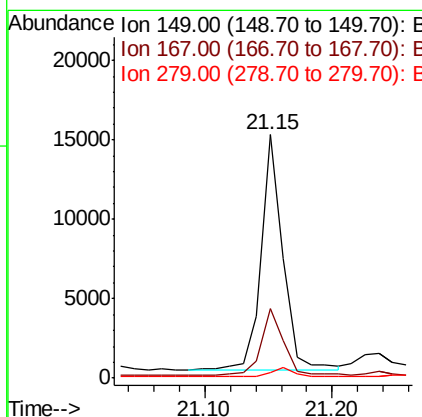
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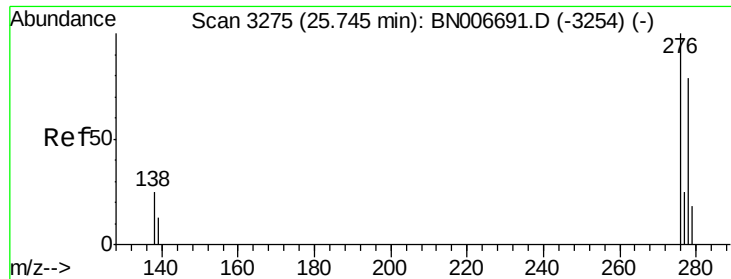
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#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.122 ng  
RT: 21.15 min Scan# 2181  
Delta R.T. -0.01 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.2  | 22.9  | 34.3  |
| 279     | 4.1   | 3.2   | 4.8   |





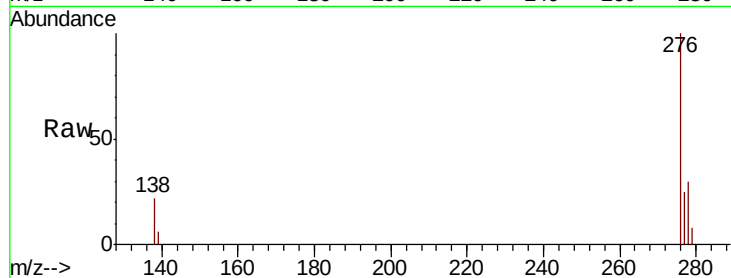
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 1.683 ng  
RT: 25.70 min Scan# 3263  
Delta R.T. -0.04 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.8  | 19.5  | 29.3  |
| 277     | 24.0  | 19.7  | 29.5  |

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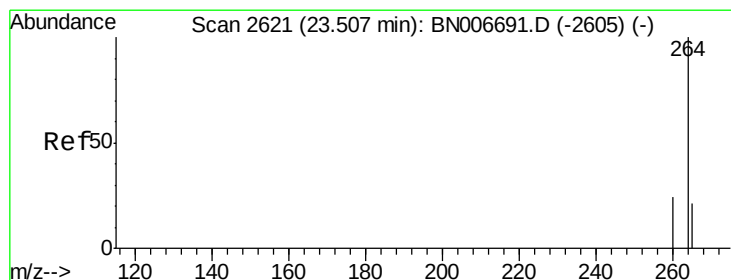
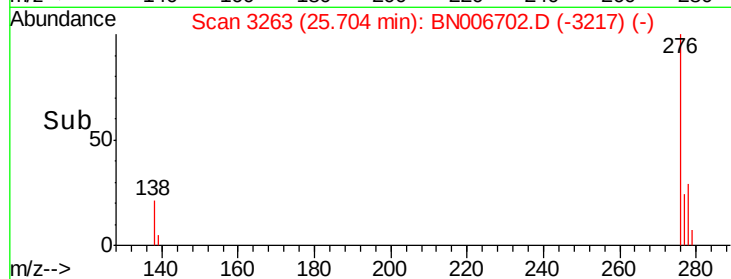
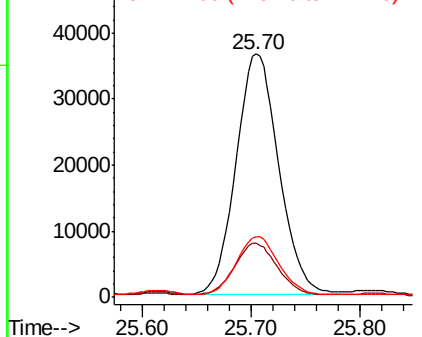


Abundance

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: 23.48 min Scan# 2613  
Delta R.T. -0.03 min  
Lab File: BN006702.D  
Acq: 02 Jul 2019 21:11

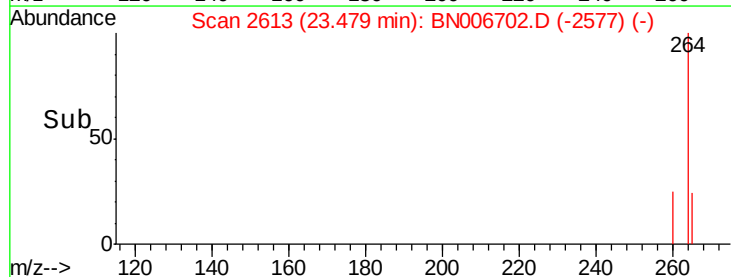
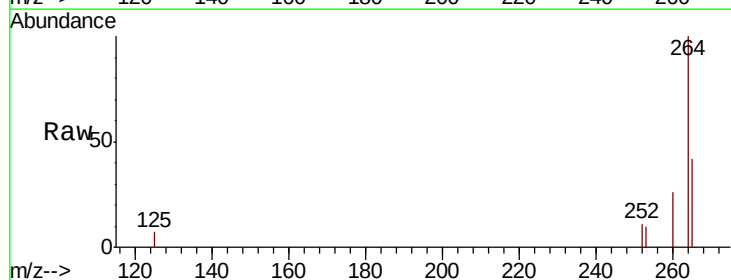
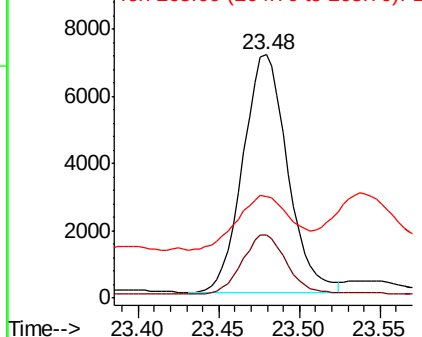
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.8  | 20.2  | 30.2  |
| 265     | 41.7  | 33.7  | 50.5  |

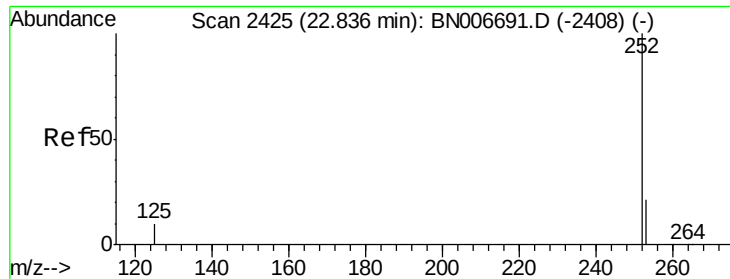
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 4.374 ng

RT: 22.81 min Scan# 2418

Delta R.T. -0.02 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

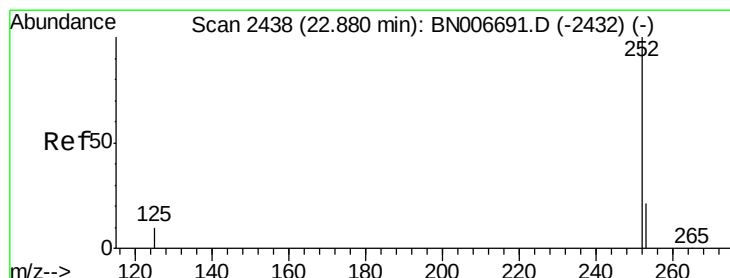
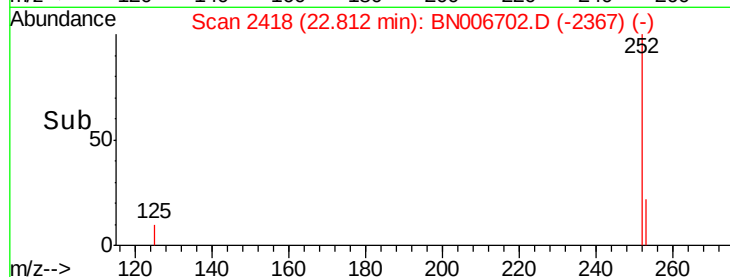
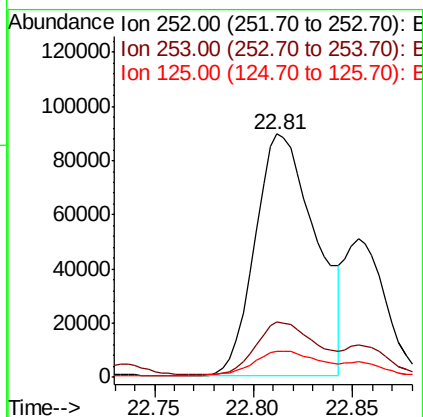
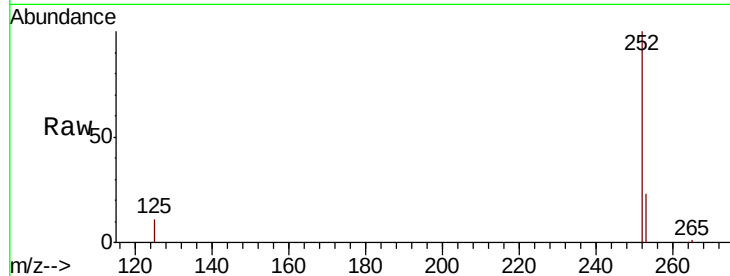
ClientSampleId :

PST-013-B212-062019MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 190563 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 20.2  | 30.2   |
| 125       | 10.7  | 11.5  | 17.3#  |

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#36

Benzo(k)fluoranthene

Concen: 1.542 ng m

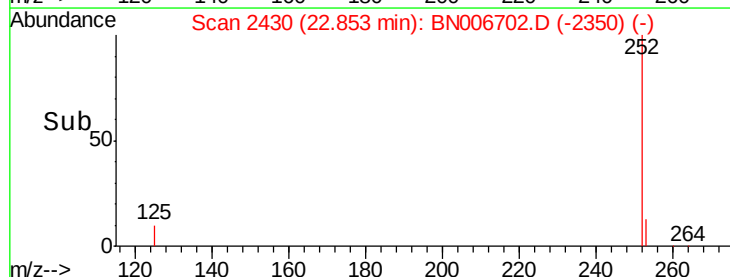
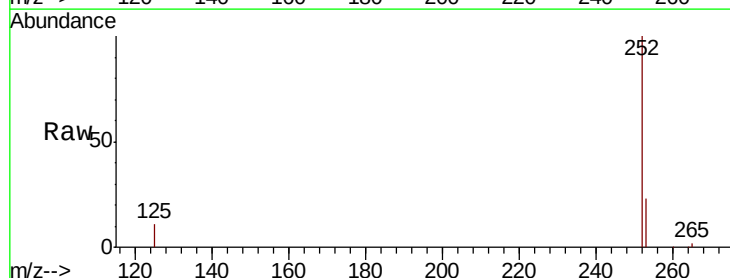
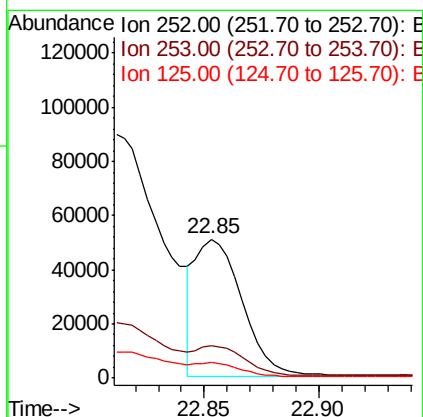
RT: 22.85 min Scan# 2430

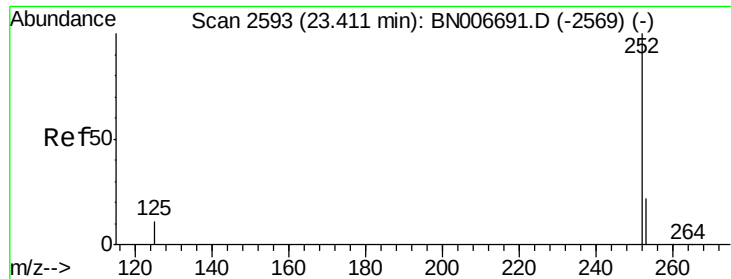
Delta R.T. -0.03 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 72839 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 20.1  | 30.1  |
| 125       | 11.0  | 11.4  | 17.0# |





#37

Benzo(a)pyrene

Concen: 3.077 ng/mL

RT: 23.38 min Scan# 2584

Delta R.T. -0.03 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

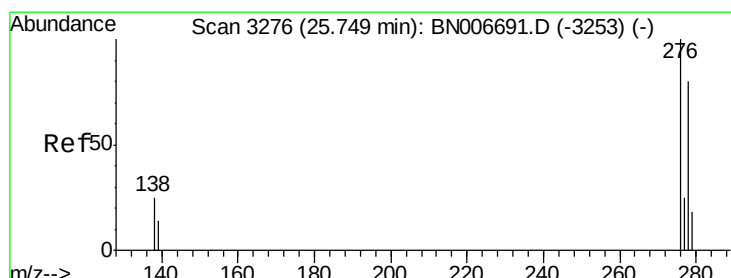
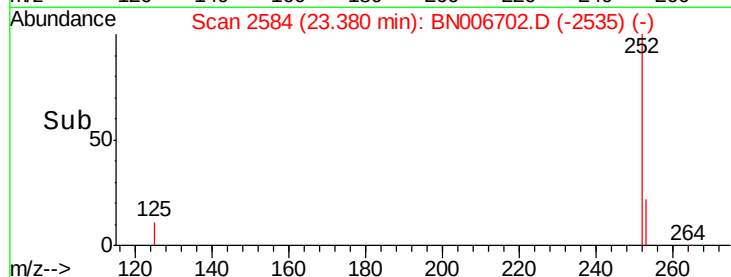
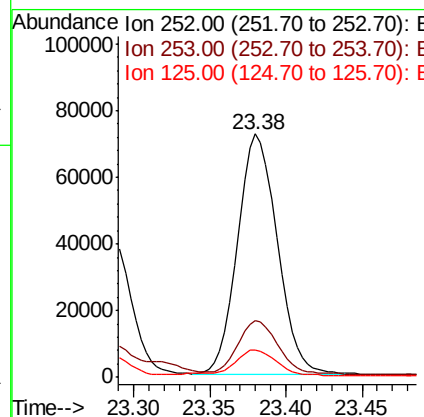
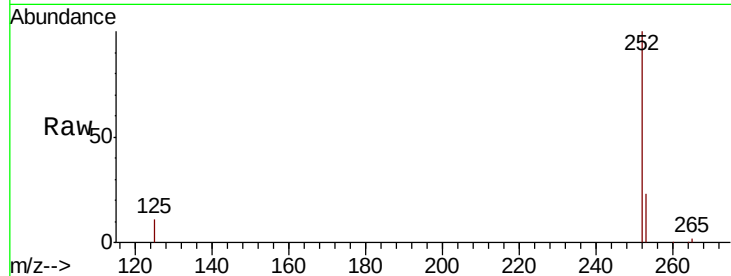
ClientSampleId :

PST-013-B212-062019MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 21.4  | 32.2  |
| 125     | 11.3  | 13.3  | 19.9  |

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#38

Dibenzo(a,h)anthracene

Concen: 0.810 ng/mL

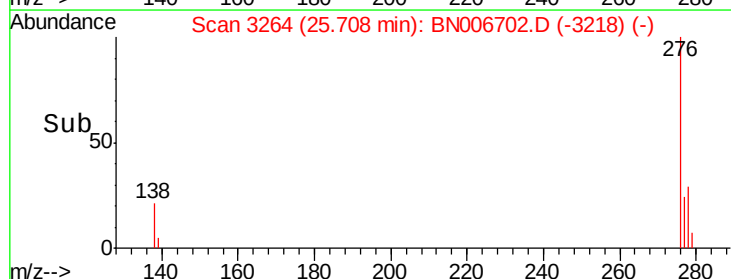
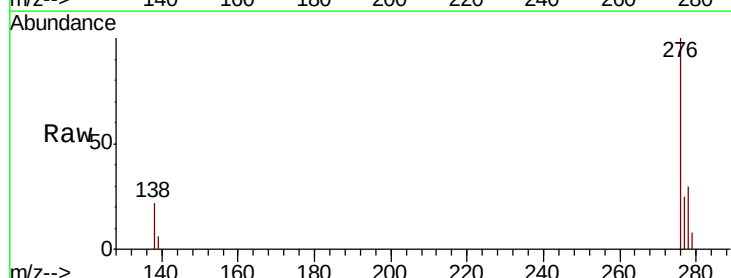
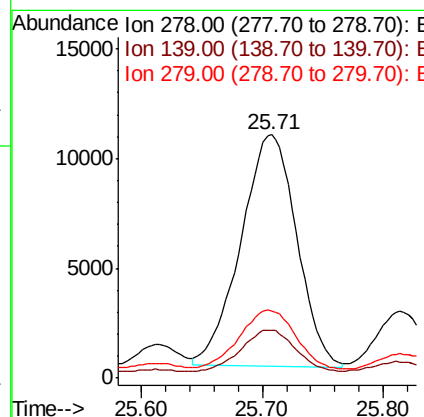
RT: 25.71 min Scan# 3264

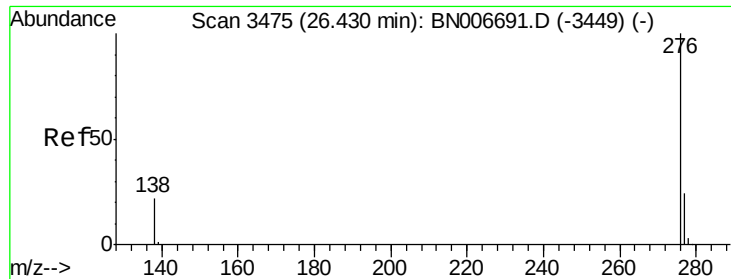
Delta R.T. -0.04 min

Lab File: BN006702.D

Acq: 02 Jul 2019 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.7  | 16.2  | 24.4  |
| 279     | 27.7  | 20.7  | 31.1  |





#39

Benzo(a,h,i)perylene

Concen: 2.221 ng

RT: 26.39 min Scan# 3462

Delta R.T. -0.04 min

Lab File: BN006702.D

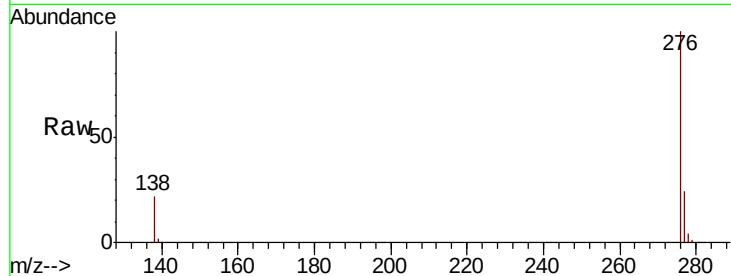
Acq: 02 Jul 2019 21:11

Instrument :

BNA\_N

ClientSampleId :

PST-013-B212-062019MSD



| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 95845   | 276 | 100   |       |       |
|         | 277 | 24.3  | 20.6  | 30.8  |
|         | 138 | 22.4  | 19.7  | 29.5  |

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