

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070519\  
 Data File : BN006719.D  
 Acq On : 05 Jul 2019 17:08  
 Operator : HP/JU  
 Sample : K3558-08MSD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-032-B204-062519MSD

Manual Integrations  
 APPROVED

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 7/8/2019 2:15:53 PM

Quant Time: Jul 05 23:20:35 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 | 7.59  | 152  | 3045     | 0.40 | ng    | -0.03    |
| 7) Naphthalene-d8         | 10.36 | 136  | 11585    | 0.40 | ng    | -0.03    |
| 13) Acenaphthene-d10      | 14.24 | 164  | 6648     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.00 | 188  | 15449    | 0.40 | ng    | -0.02    |
| 27) Chrysene-d12          | 21.23 | 240  | 16090    | 0.40 | ng    | -0.03    |
| 34) Perylene-d12          | 23.45 | 264  | 18788    | 0.40 | ng    | -0.06    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.22  | 112 | 1717  | 0.21 | ng | -0.02 |
| 5) Phenol-d6                | 6.81  | 99  | 2374  | 0.23 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.78  | 82  | 1598m | 0.18 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.97 | 152 | 4740  | 0.27 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol    | 15.77 | 330 | 751   | 0.23 | ng | -0.02 |
| 15) 2-Fluorobiphenyl        | 12.86 | 172 | 5112  | 0.20 | ng | -0.02 |
| 25) Fluoranthene-d10        | 19.05 | 212 | 9074  | 0.21 | ng | -0.02 |
| 29) Terphenyl-d14           | 19.66 | 244 | 6380  | 0.17 | ng | -0.02 |

|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.12  | 88  | 1015  | 0.213  | ng | # 55 |
| 3) n-Nitrosodimethylamine      | 3.45  | 42  | 1086  | 0.303  | ng | # 78 |
| 6) bis(2-Chloroethyl)ether     | 7.03  | 93  | 2055  | 0.232  | ng | 91   |
| 9) Naphthalene                 | 10.41 | 128 | 7554  | 0.238  | ng | 98   |
| 10) Hexachlorobutadiene        | 10.69 | 225 | 1297  | 0.202  | ng | # 99 |
| 12) 2-Methylnaphthalene        | 12.05 | 142 | 4868  | 0.195  | ng | 98   |
| 16) Acenaphthylene             | 13.96 | 152 | 8342  | 0.252  | ng | 99   |
| 17) Acenaphthene               | 14.30 | 154 | 4827  | 0.228  | ng | 97   |
| 18) Fluorene                   | 15.30 | 166 | 6189  | 0.236  | ng | 98   |
| 20) 4-Bromophenyl-phenylether  | 16.20 | 248 | 1783  | 0.196  | ng | 96   |
| 21) Hexachlorobenzene          | 16.31 | 284 | 2063  | 0.191  | ng | 99   |
| 22) Pentachlorophenol          | 16.72 | 266 | 171   | 0.230  | ng | 91   |
| 23) Phenanthrene               | 17.05 | 178 | 13328 | 0.299  | ng | 100  |
| 24) Anthracene                 | 17.14 | 178 | 9189  | 0.228  | ng | 99   |
| 26) Fluoranthene               | 19.08 | 202 | 20648 | 0.395  | ng | 99   |
| 28) Pyrene                     | 19.45 | 202 | 21168 | 0.329  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.22 | 228 | 15381 | 0.277  | ng | 98   |
| 31) Chrysene                   | 21.27 | 228 | 16213 | 0.283  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 8608  | 0.052  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 25.67 | 276 | 18094 | 0.265  | ng | 97   |
| 35) Benzo(b)fluoranthene       | 22.79 | 252 | 17540 | 0.291  | ng | 99   |
| 36) Benzo(k)fluoranthene       | 22.83 | 252 | 15631 | 0.239  | ng | 98   |
| 37) Benzo(a)pyrene             | 23.36 | 252 | 16329 | 0.280  | ng | 99   |
| 38) Dibenzo(a,h)anthracene     | 25.68 | 278 | 12759 | 0.220  | ng | 98   |
| 39) Benzo(g,h,i)perylene       | 26.35 | 276 | 16151 | 0.270  | ng | 98   |

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

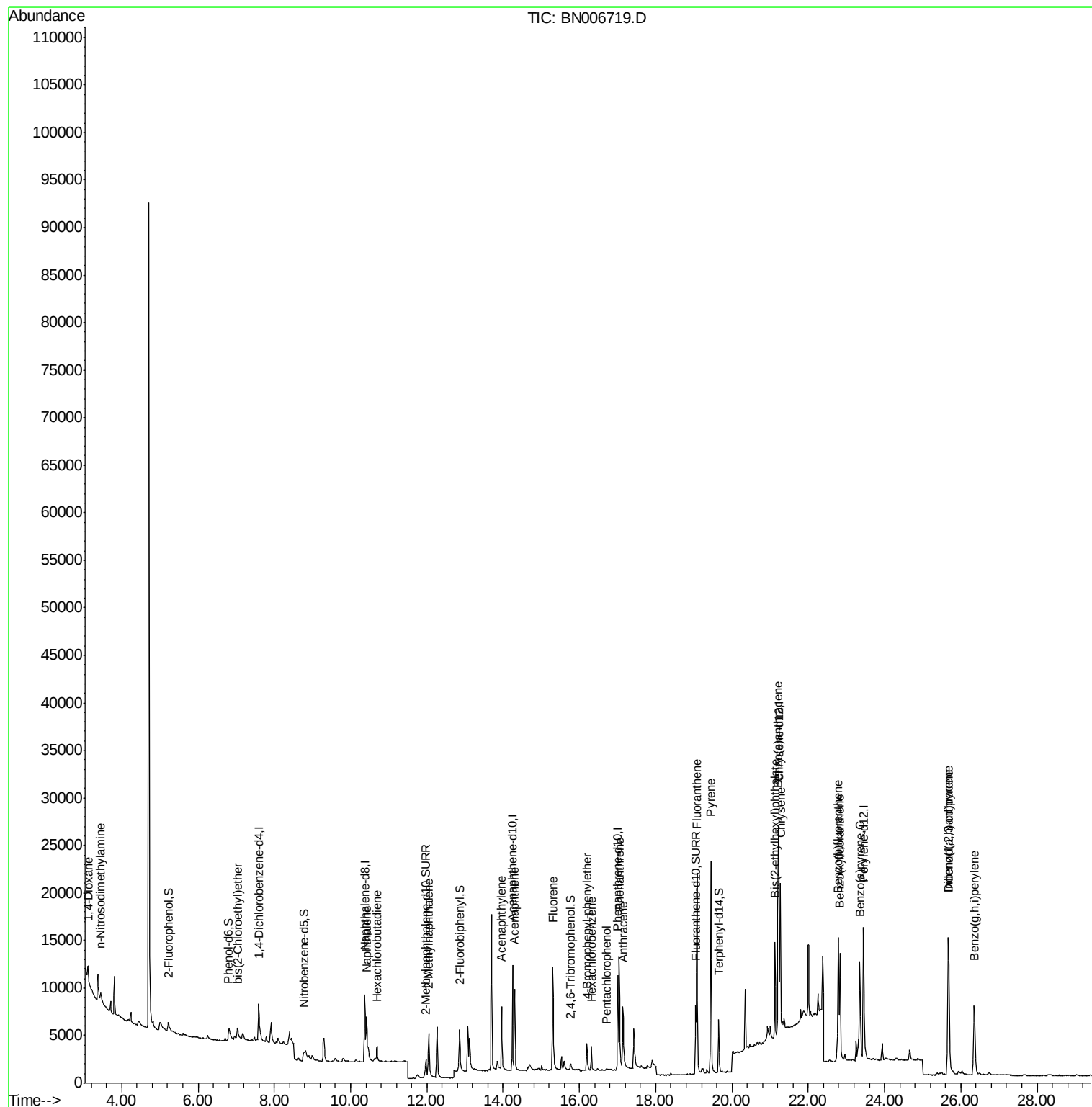
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070519\  
Data File : BN006719.D  
Acq On : 05 Jul 2019 17:08  
Operator : HP/JU  
Sample : K3558-08MSD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

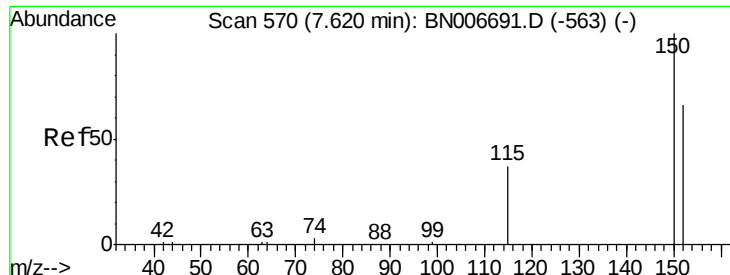
Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

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Quant Time: Jul 05 23:20:35 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

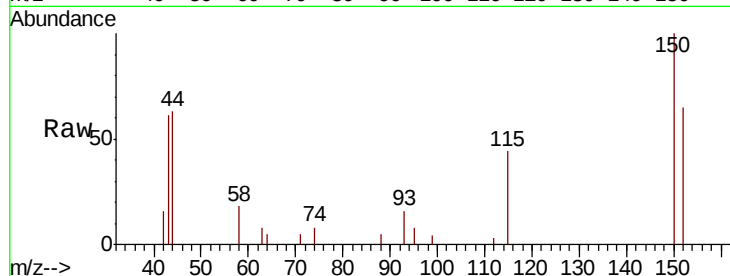
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.59 min Scan# 566  
Delta R.T. -0.03 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.9 | 120.6 | 181.0 |
| 115     | 68.4  | 51.0  | 76.6  |

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Abundance

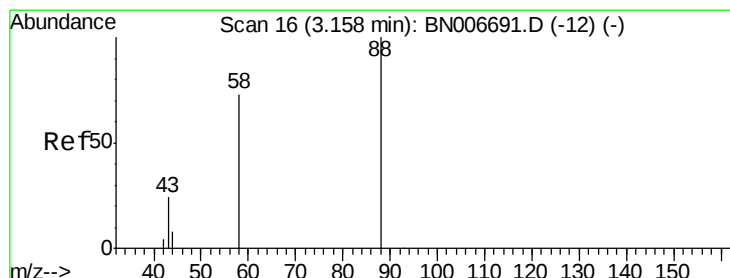
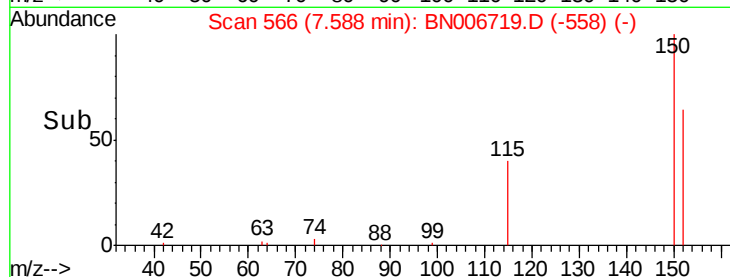
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

7.59

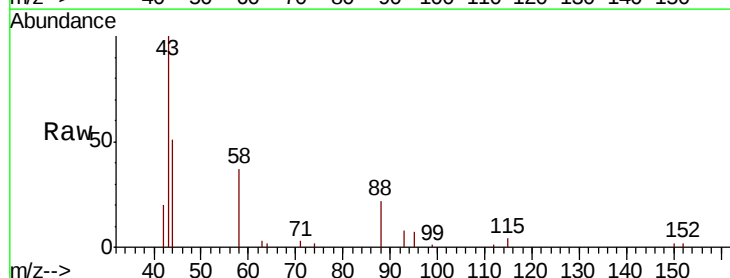
Time-->



#2

1,4-Dioxane  
Concen: 0.213 ng  
RT: 3.12 min Scan# 11  
Delta R.T. -0.04 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 105.9 | 61.1  | 91.7# |
| 43      | 0.0   | 32.4  | 48.6# |



Abundance

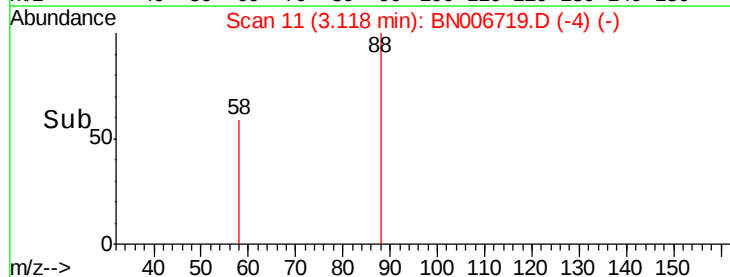
Ion 88.00 (87.70 to 88.70): BNC

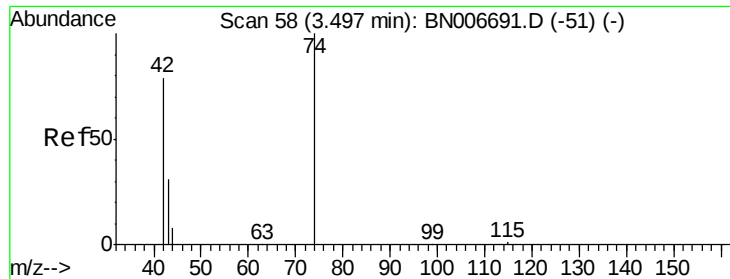
Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC

3.12

Time-->





#3

n-Nitrosodimethylamine

Concen: 0.303 ng

RT: 3.45 min Scan# 52

Delta R.T. -0.05 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

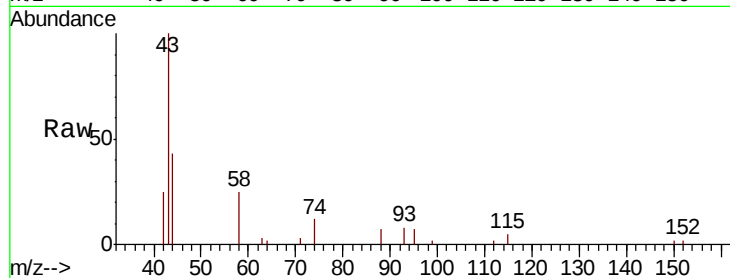
ClientSampleId :

PST-032-B204-062519MSD

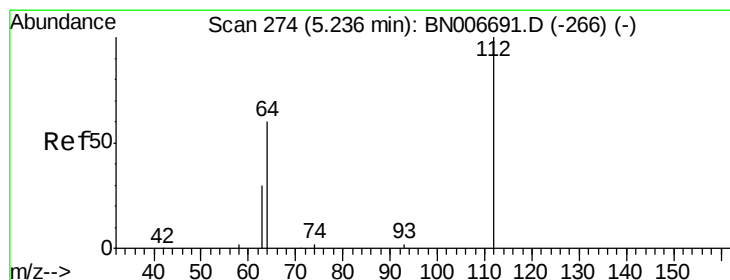
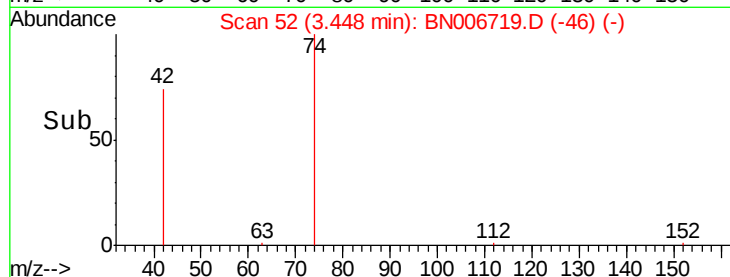
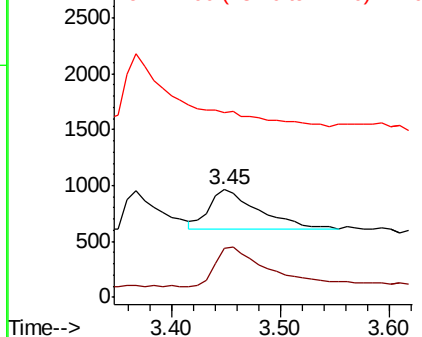
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 1086  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 108.0 | 106.6 | 160.0 |
| 44       | 0.0   | 8.0   | 12.0# |

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Abundance Ion 42.00 (41.70 to 42.70): BN0  
Ion 74.00 (73.70 to 74.70): BN0  
Ion 44.00 (43.70 to 44.70): BN0



#4

2-Fluorophenol

Concen: 0.208 ng

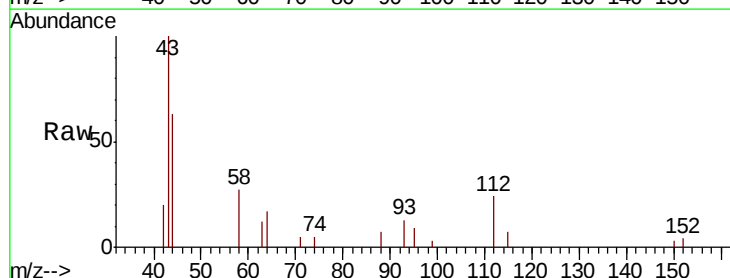
RT: 5.22 min Scan# 272

Delta R.T. -0.02 min

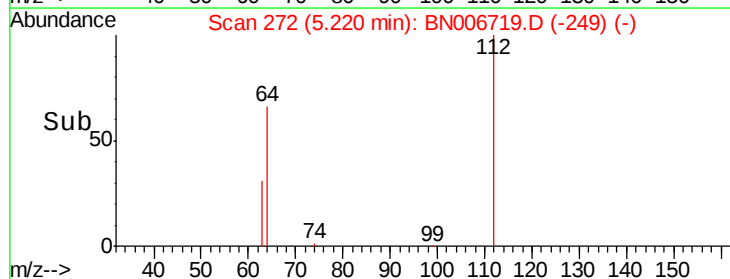
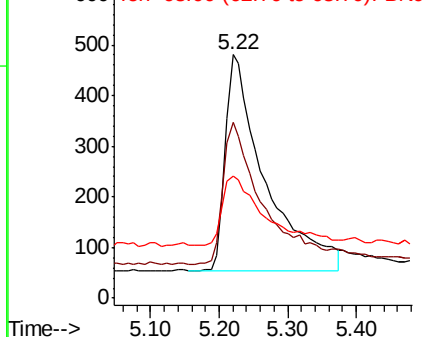
Lab File: BN006719.D

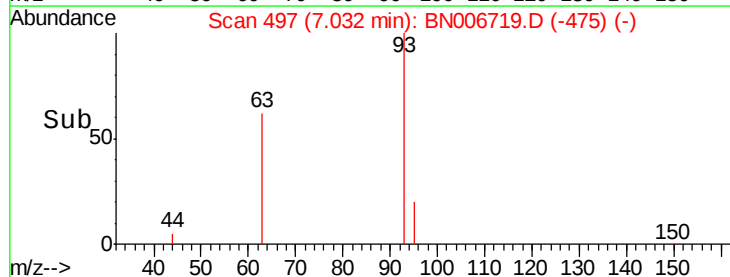
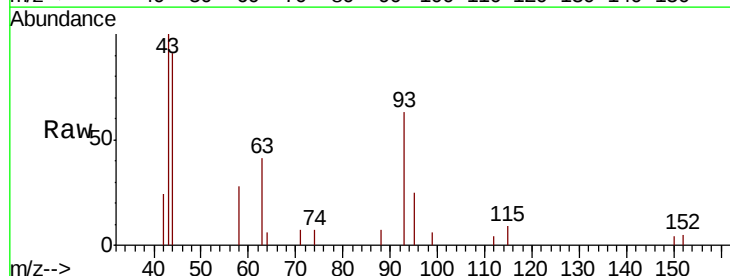
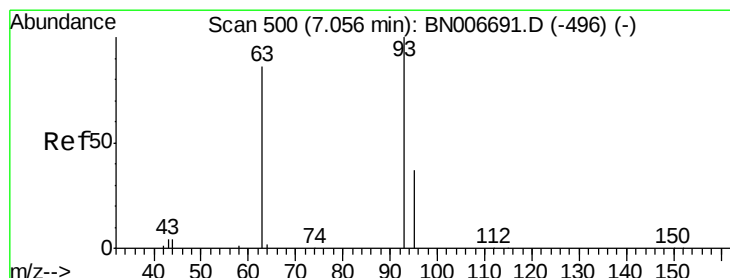
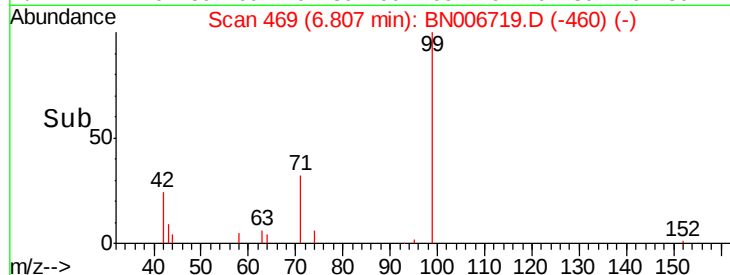
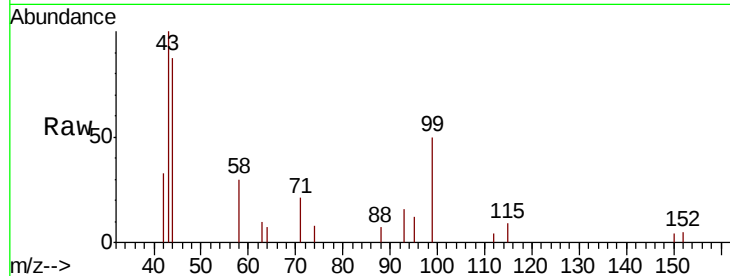
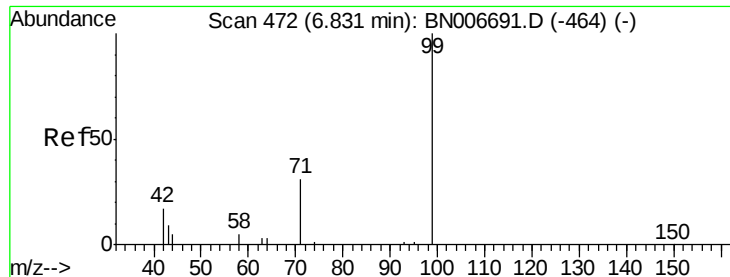
Acq: 05 Jul 2019 17:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1717  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 65.1  | 49.8  | 74.6  |
| 63       | 34.9  | 25.8  | 38.6  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BN0  
Ion 63.00 (62.70 to 63.70): BN0





#5

Phenol-d6

Concen: 0.227 ng

RT: 6.81 min Scan# 469

Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 2374  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 30.4  | 16.6  | 25.0# |
| 71       | 34.2  | 26.0  | 39.0  |

Instrument :

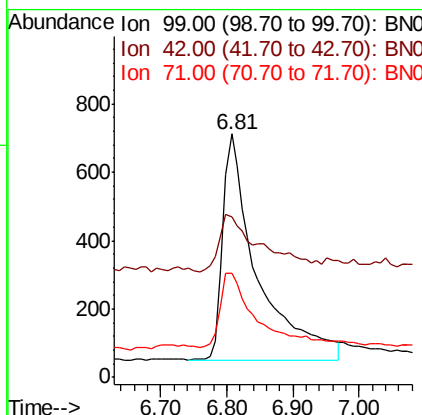
BNA\_N

ClientSampleId :

PST-032-B204-062519MSD

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#6

bis(2-Chloroethyl)ether

Concen: 0.232 ng

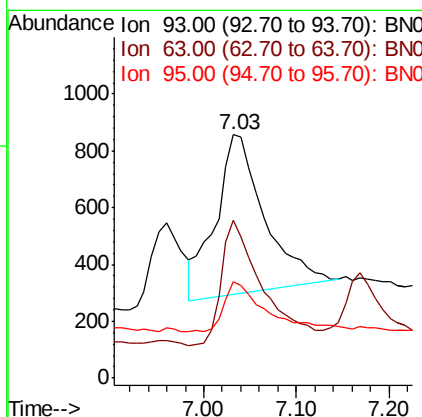
RT: 7.03 min Scan# 497

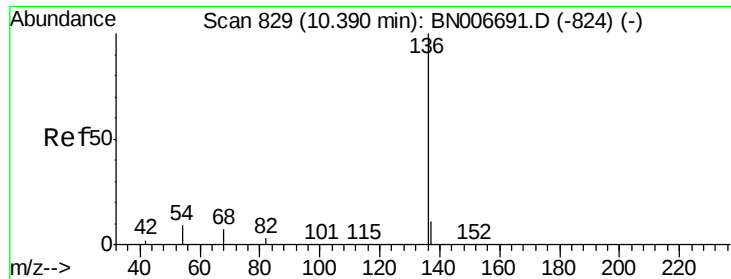
Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2055  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 66.8  | 58.6  | 87.8  |
| 95       | 28.3  | 28.3  | 42.5  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.36 min Scan# 827

Delta R.T. -0.03 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

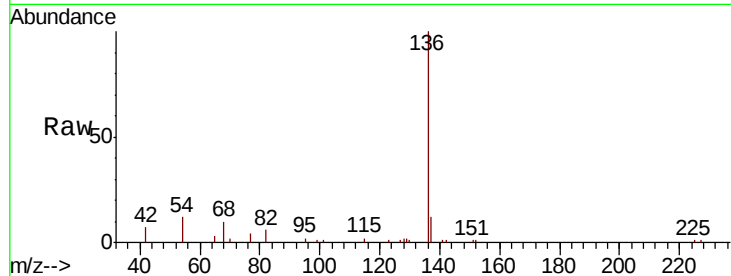
ClientSampleId :

PST-032-B204-062519MSD

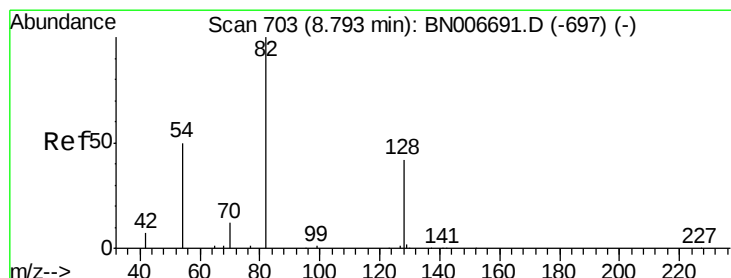
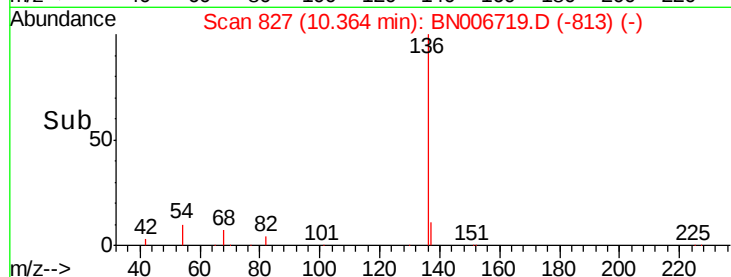
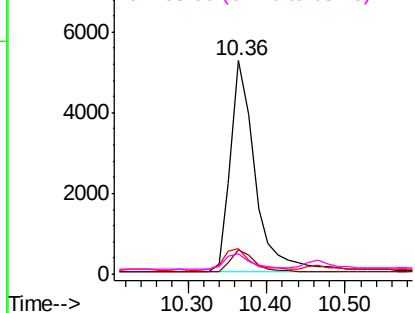
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.7  | 9.3   | 13.9  |
| 54      | 12.0  | 8.4   | 12.6  |
| 68      | 9.7   | 6.8   | 10.2  |

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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: 0.180 ng m

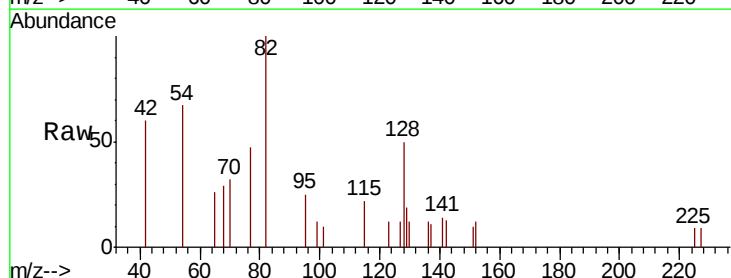
RT: 8.78 min Scan# 702

Delta R.T. -0.01 min

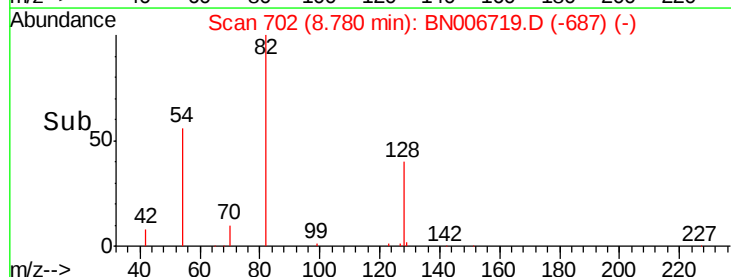
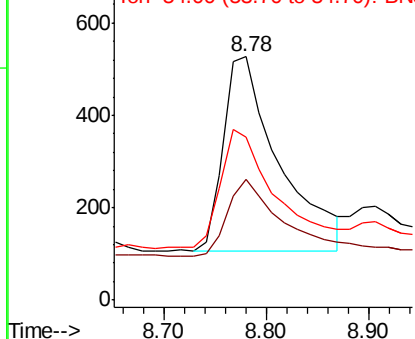
Lab File: BN006719.D

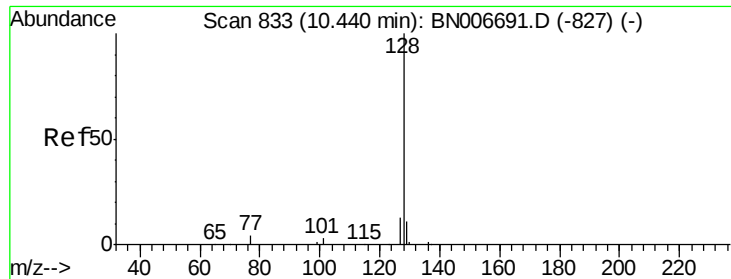
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.7  | 36.1  | 54.1  |
| 54      | 67.0  | 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





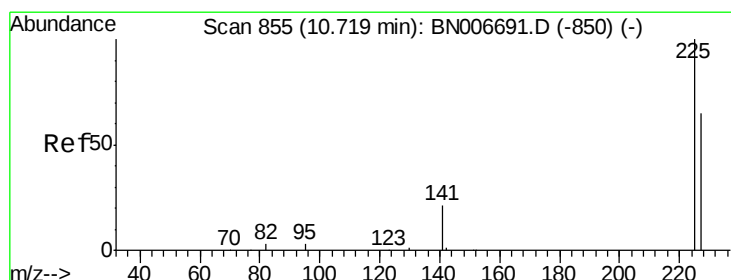
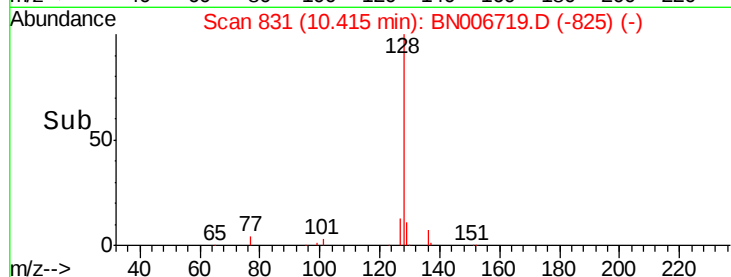
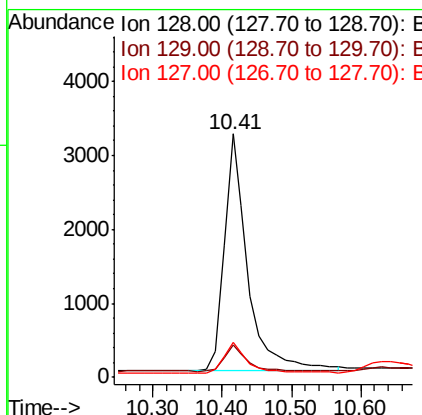
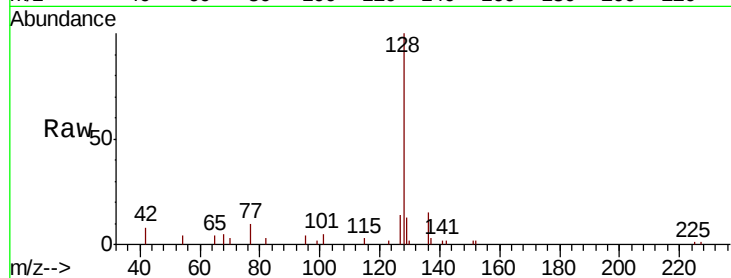
#9  
Naphthalene  
Concen: 0.238 ng  
RT: 10.41 min Scan# 831  
Delta R.T. -0.03 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.1  | 9.6   | 14.4  |
| 127     | 14.2  | 11.0  | 16.4  |

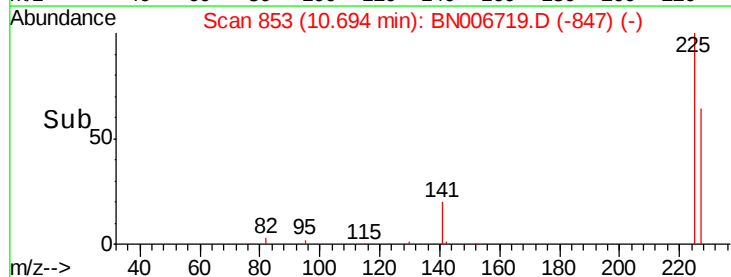
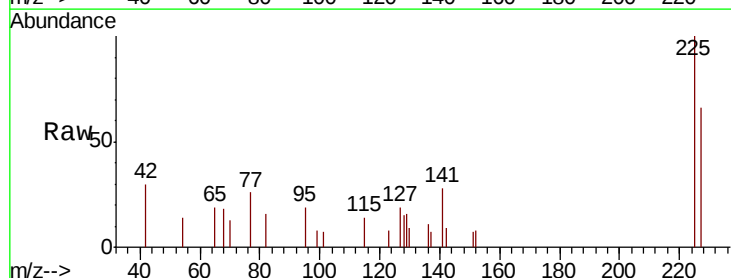
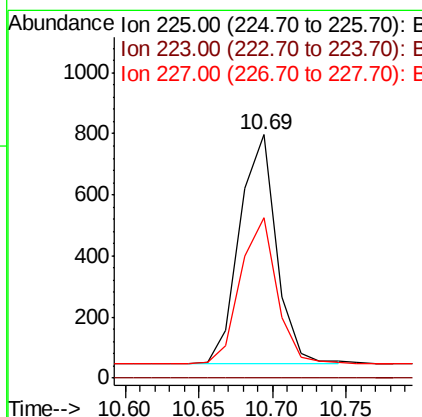
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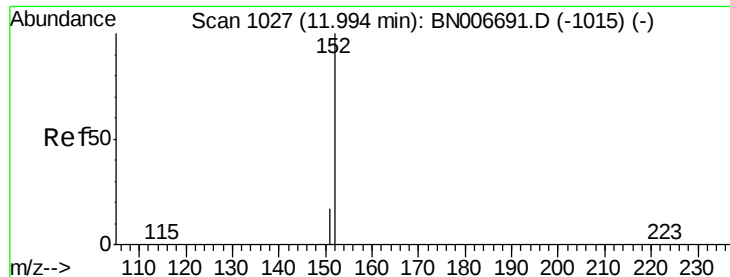
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#10  
Hexachlorobutadiene  
Concen: 0.202 ng  
RT: 10.69 min Scan# 853  
Delta R.T. -0.03 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 63.1  | 50.9  | 76.3  |





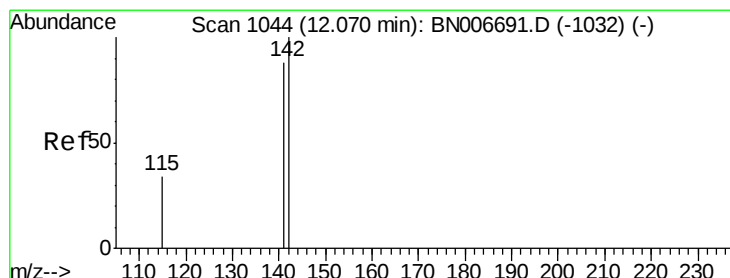
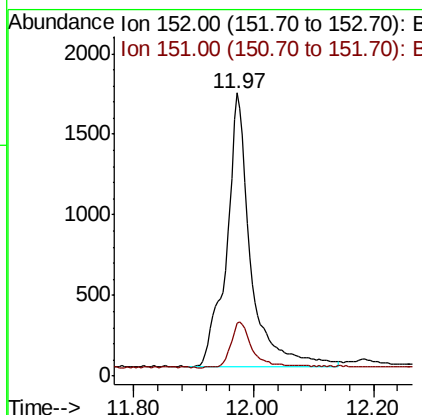
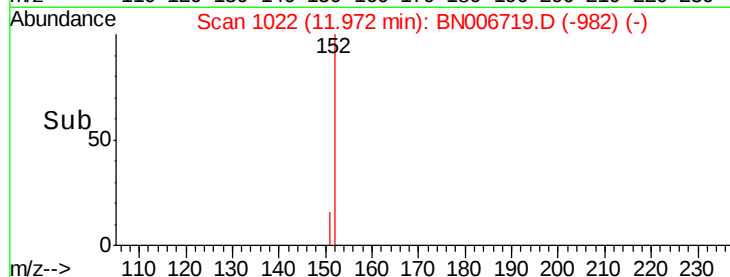
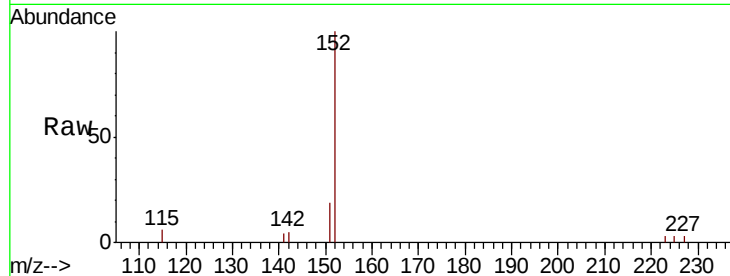
#11  
2-Methylnaphthalene-d10  
Concen: 0.272 ng  
RT: 11.97 min Scan# 1022  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 15.0  | 14.9  | 22.3  |

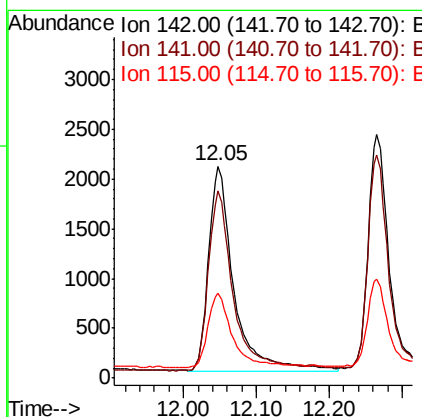
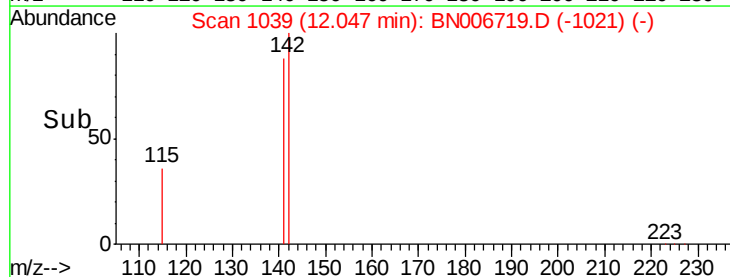
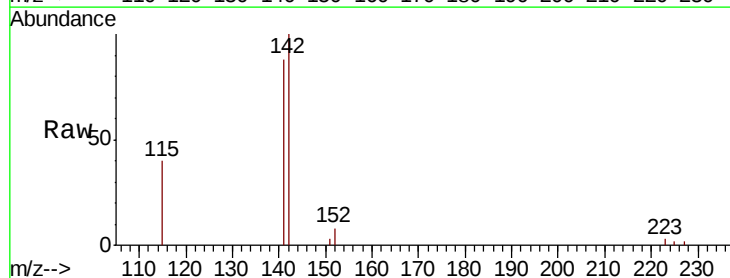
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#12  
2-Methylnaphthalene  
Concen: 0.195 ng  
RT: 12.05 min Scan# 1039  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.3  | 70.3  | 105.5 |
| 115     | 39.9  | 28.9  | 43.3  |





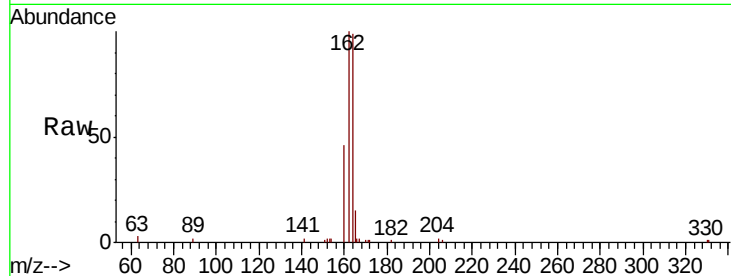
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.24 min Scan# 1325  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.0 | 80.8  | 121.2 |
| 160     | 46.8  | 37.0  | 55.6  |

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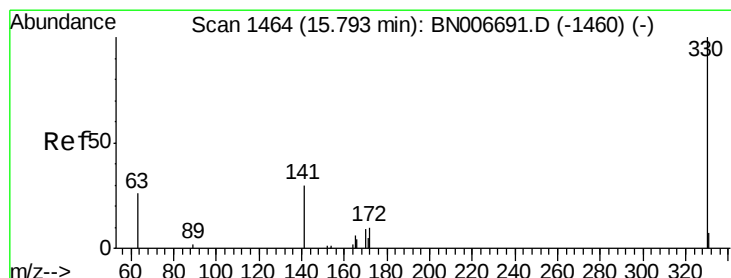
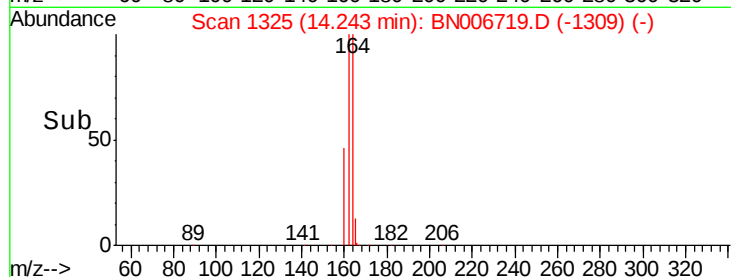
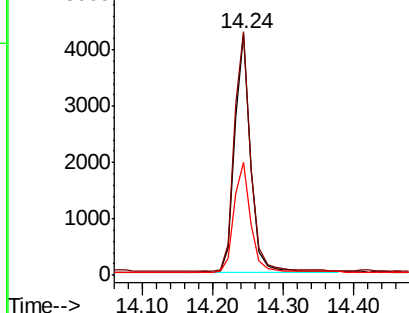


Abundance

Ion 164.00 (163.70 to 164.70): E

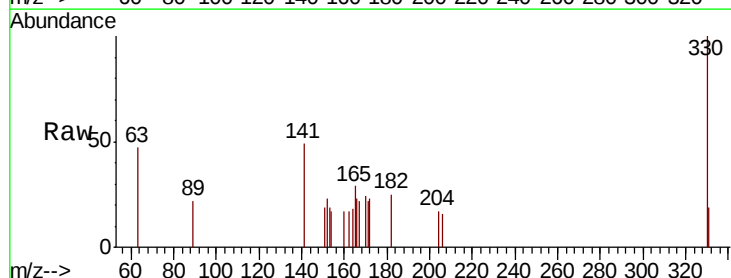
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14  
2,4,6-Tribromophenol  
Concen: 0.230 ng  
RT: 15.77 min Scan# 1462  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 34.9  | 24.8  | 37.2  |

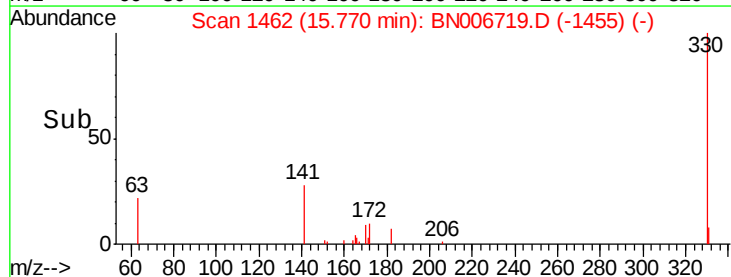
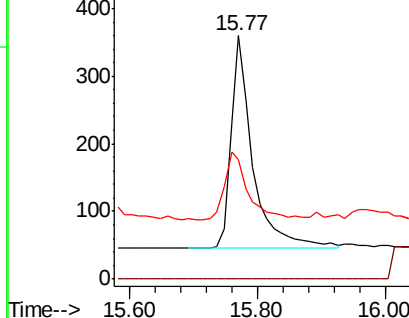


Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





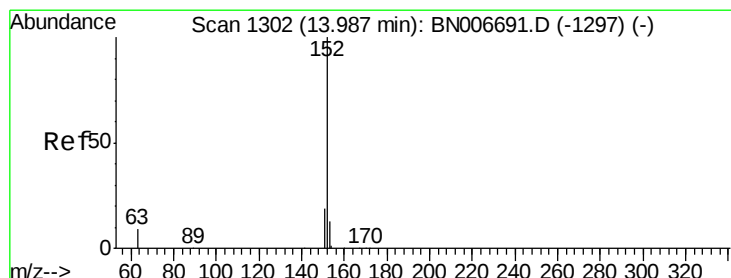
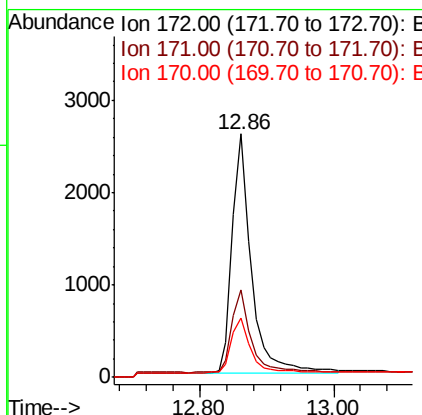
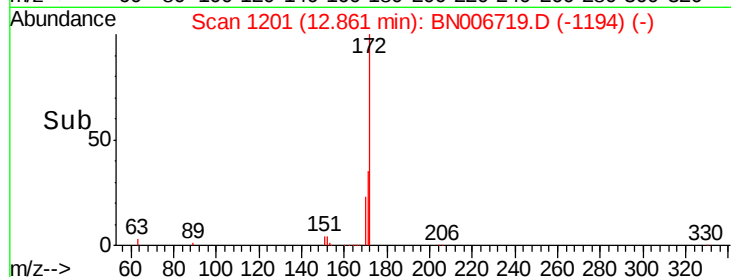
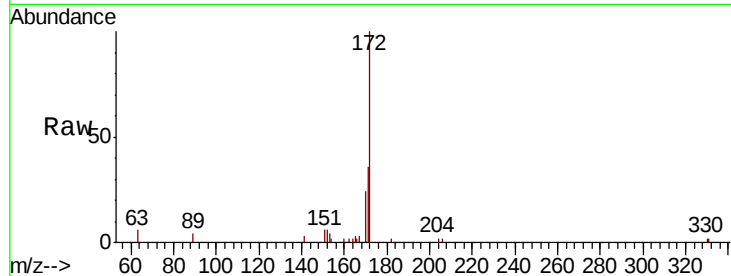
#15  
2-Fluorobiphenyl  
Concen: 0.197 ng  
RT: 12.86 min Scan# 1201  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 27.8  | 41.6  |
| 170     | 24.4  | 18.9  | 28.3  |

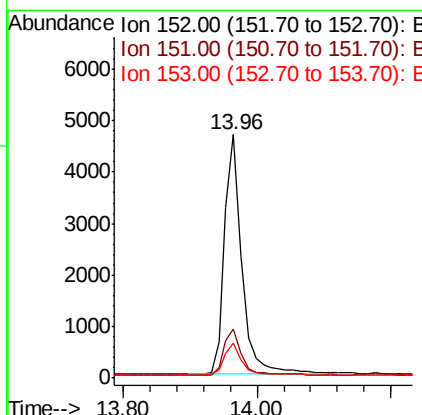
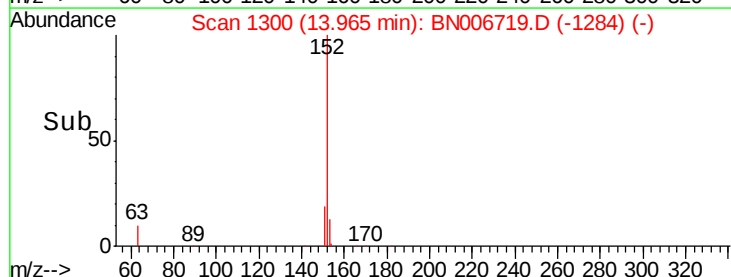
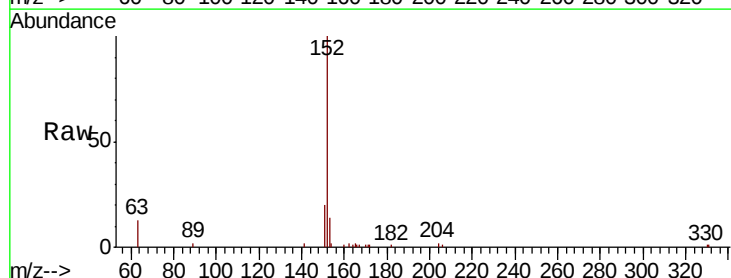
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#16  
Acenaphthylene  
Concen: 0.252 ng  
RT: 13.96 min Scan# 1300  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.9  | 15.7  | 23.5  |
| 153     | 13.3  | 10.6  | 15.8  |





#17

Acenaphthene

Concen: 0.228 ng

RT: 14.30 min Scan# 1330

Delta R.T. -0.03 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

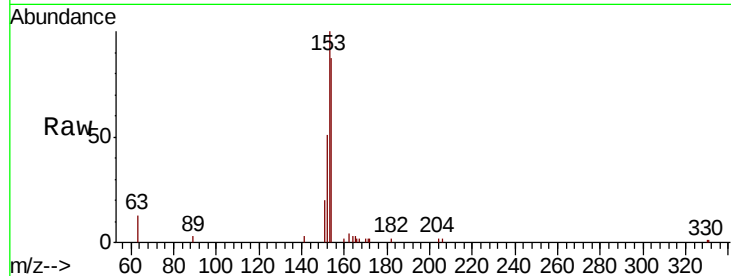
ClientSampleId :

PST-032-B204-062519MSD

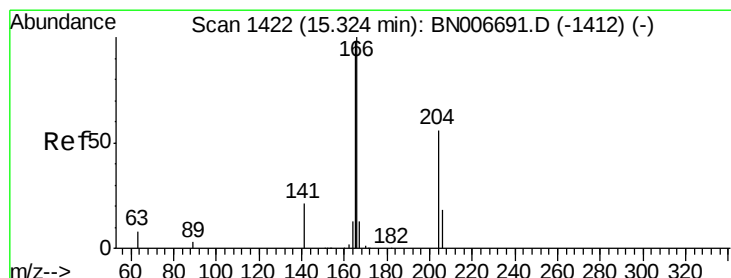
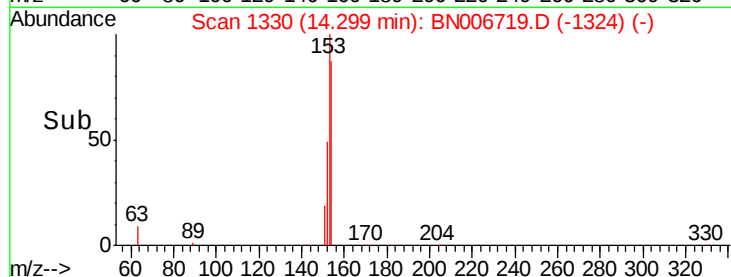
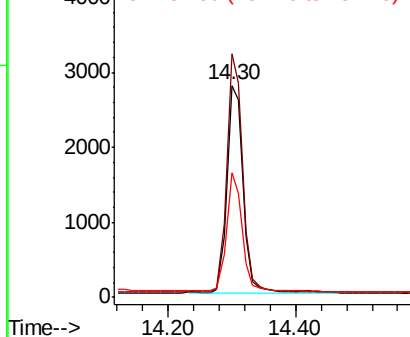
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 4827  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 113.8 | 88.9  | 133.3 |
| 152       | 55.3  | 42.8  | 64.2  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.236 ng

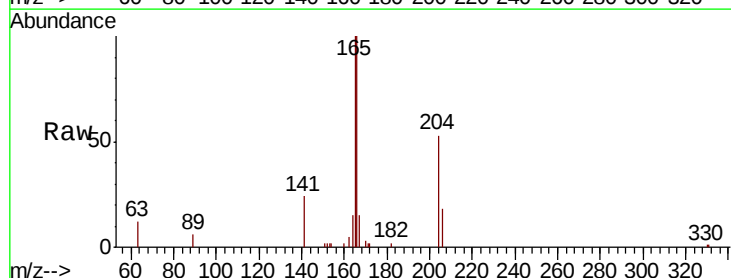
RT: 15.30 min Scan# 1420

Delta R.T. -0.02 min

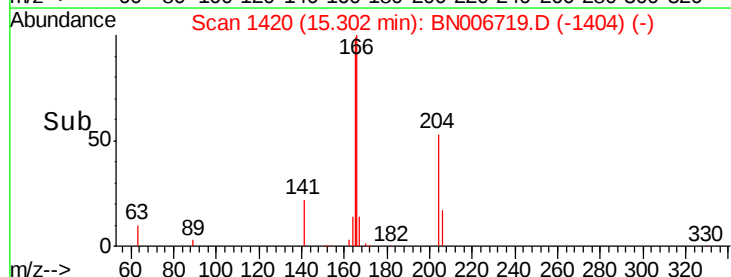
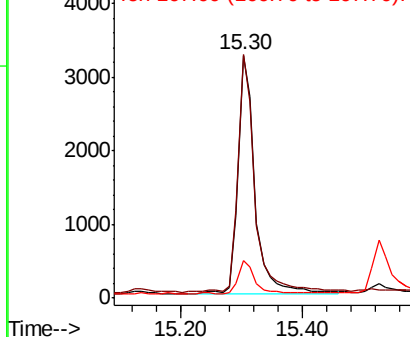
Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 6189  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.1  | 78.0  | 117.0 |
| 167       | 13.9  | 10.7  | 16.1  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.00 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

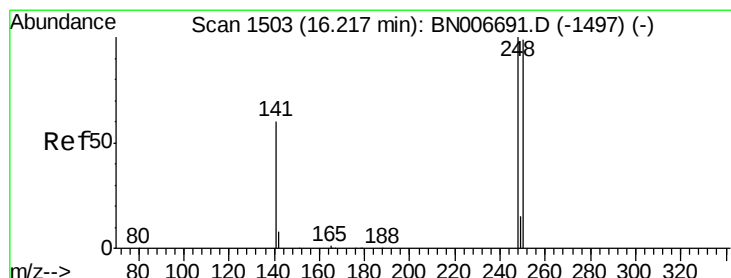
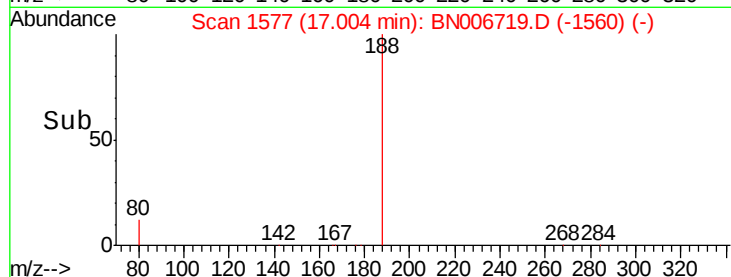
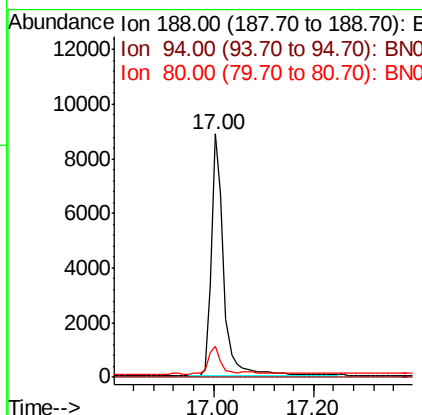
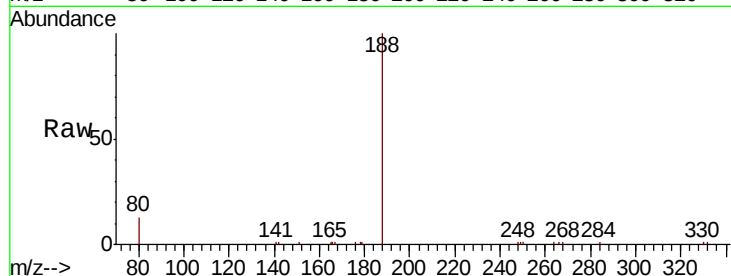
ClientSampleId :

PST-032-B204-062519MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 15449 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 13.0  | 10.3  | 15.5  |

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#20

4-Bromophenyl-phenylether

Concen: 0.196 ng

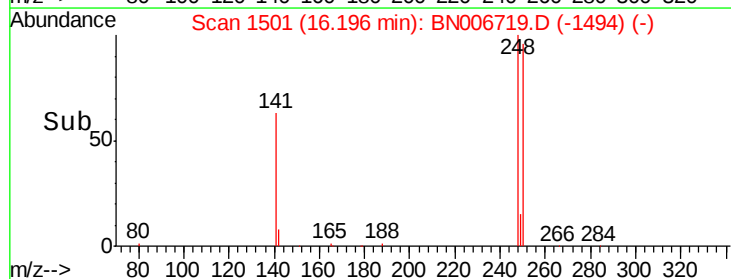
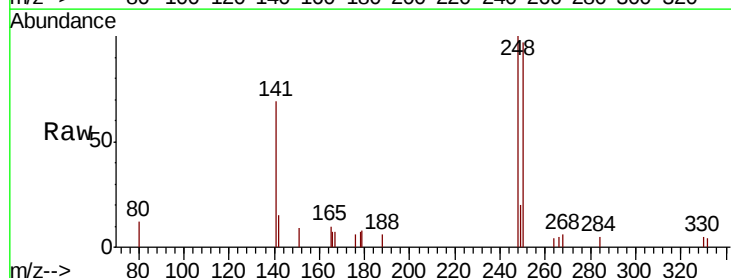
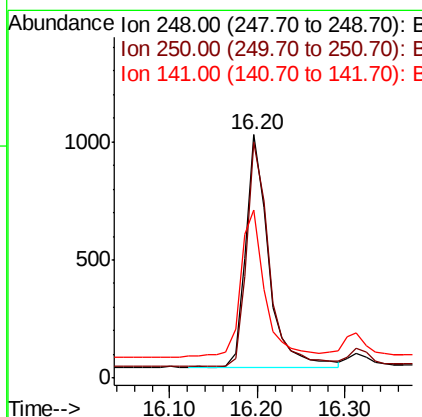
RT: 16.20 min Scan# 1501

Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1783  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 96.7  | 79.0  | 118.6 |
| 141       | 69.1  | 50.2  | 75.4  |





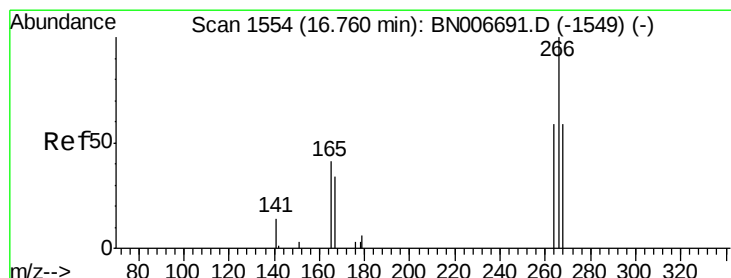
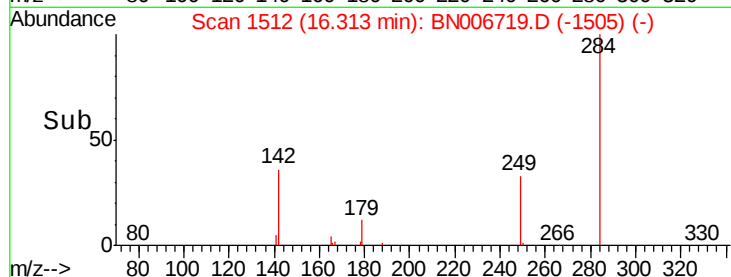
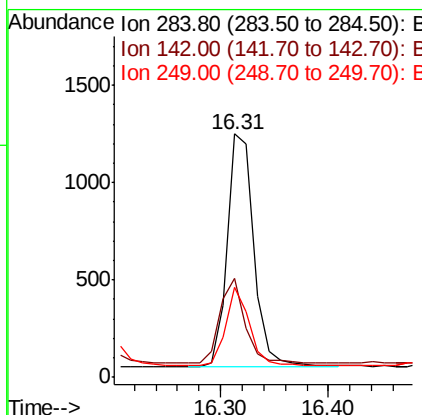
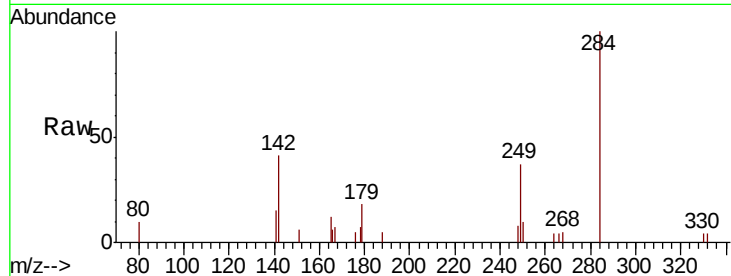
#21  
Hexachlorobenzene  
Concen: 0.191 ng  
RT: 16.31 min Scan# 1512  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 33.6  | 26.9  | 40.3  |
| 249     | 29.3  | 24.4  | 36.6  |

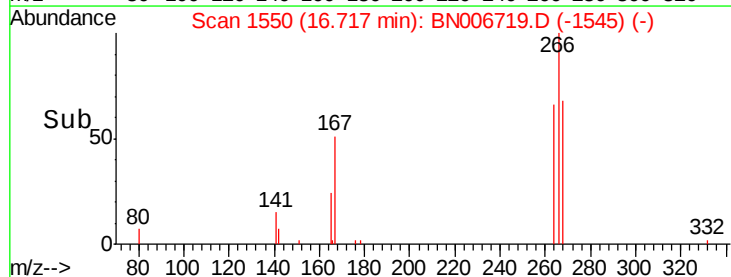
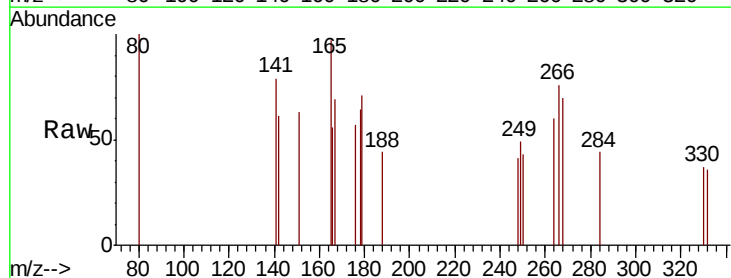
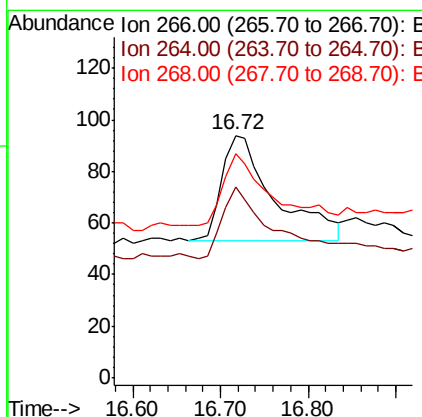
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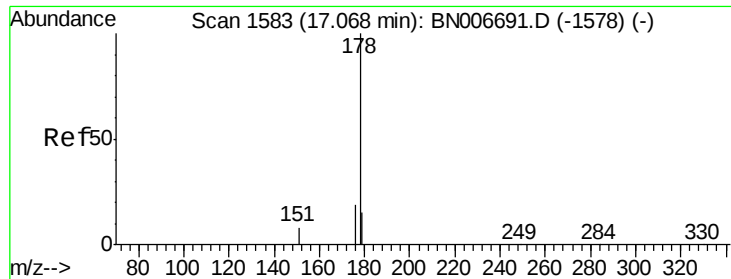
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#22  
Pentachlorophenol  
Concen: 0.230 ng  
RT: 16.72 min Scan# 1550  
Delta R.T. -0.04 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 78.7  | 57.6  | 86.4  |
| 268     | 92.6  | 66.6  | 99.8  |





#23

Phenanthrene

Concen: 0.299 ng

RT: 17.05 min Scan# 1581

Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

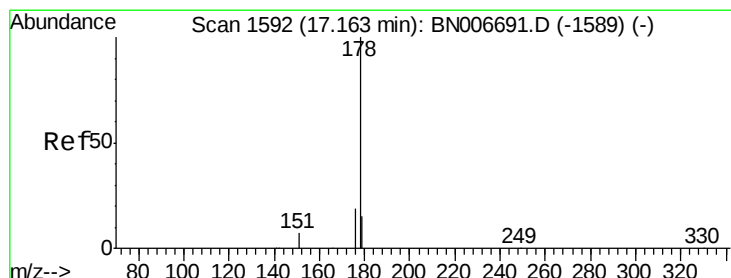
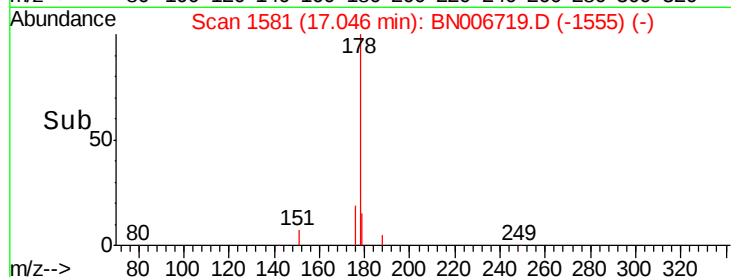
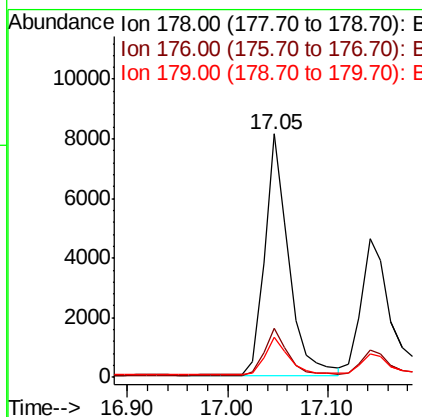
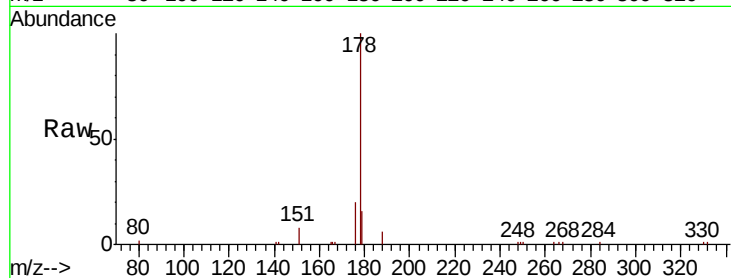
ClientSampleId :

PST-032-B204-062519MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 13328 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.0  | 15.3  | 22.9  |
| 179       | 15.6  | 12.4  | 18.6  |

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#24

Anthracene

Concen: 0.228 ng

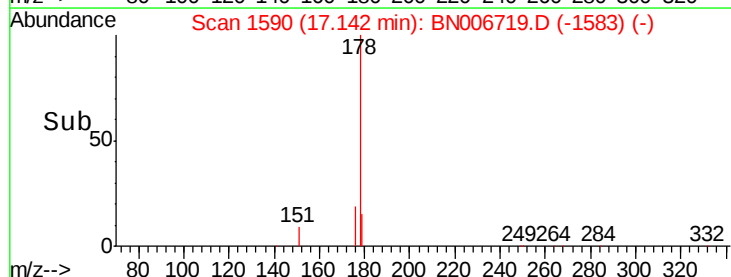
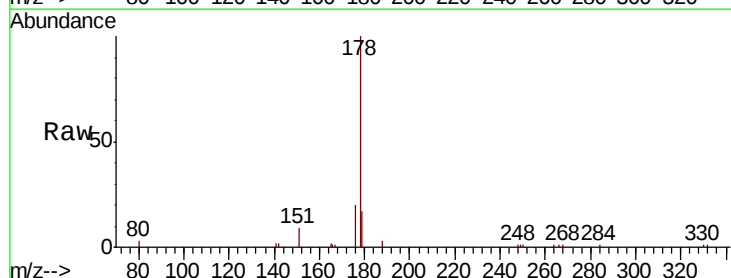
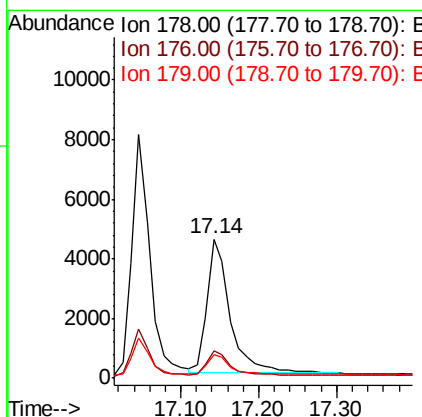
RT: 17.14 min Scan# 1590

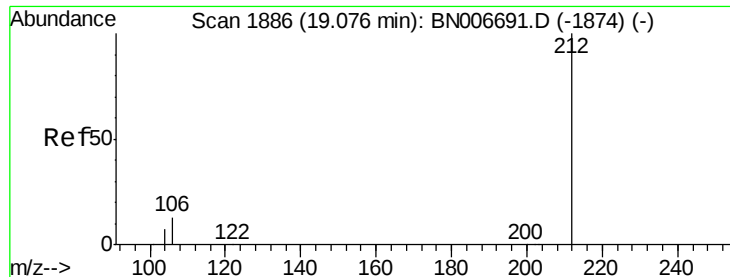
Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 9189 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 18.8  | 14.8  | 22.2 |
| 179       | 14.1  | 11.9  | 17.9 |





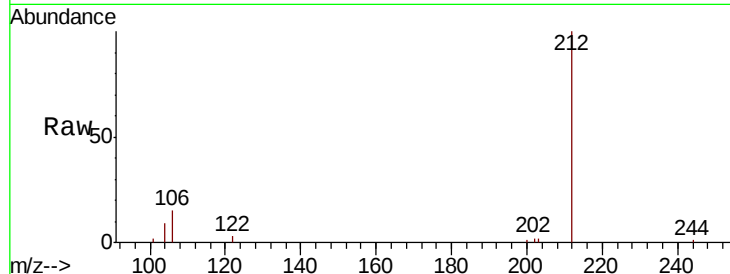
#25  
 Fluoranthene-d10  
 Concen: 0.205 ng  
 RT: 19.05 min Scan# 1881  
 Delta R.T. -0.02 min  
 Lab File: BN006719.D  
 Acq: 05 Jul 2019 17:08

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 13.6  | 11.0  | 16.6  |
| 104     | 7.9   | 6.1   | 9.1   |

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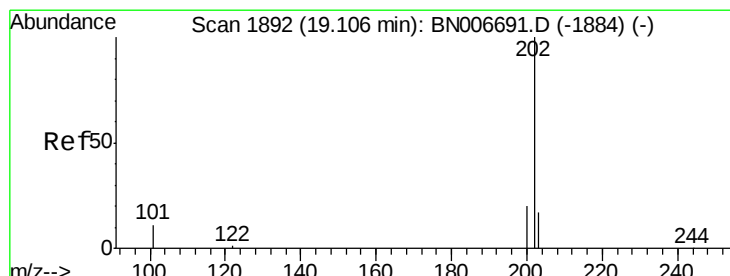
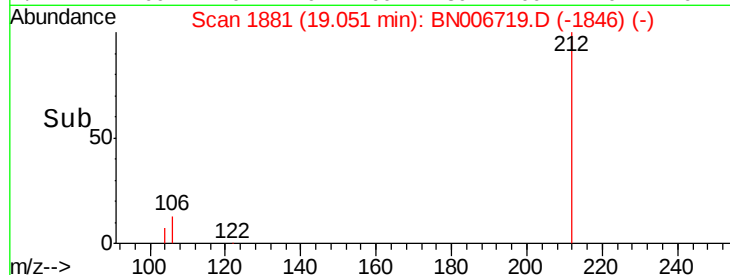
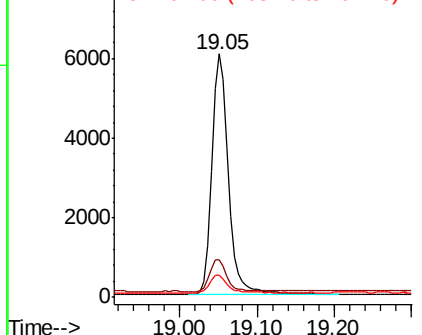


Abundance

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: 0.395 ng  
 RT: 19.08 min Scan# 1887  
 Delta R.T. -0.02 min  
 Lab File: BN006719.D  
 Acq: 05 Jul 2019 17:08

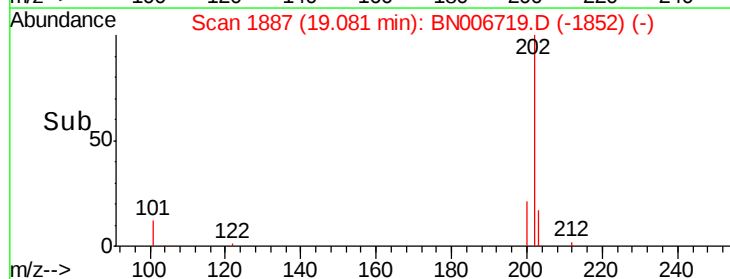
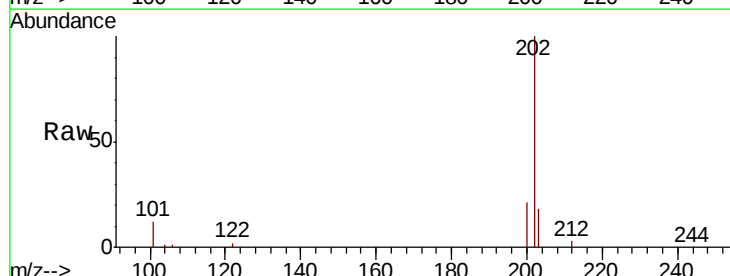
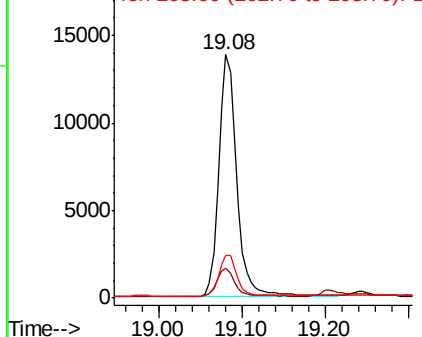
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.0  | 8.7   | 13.1  |
| 203     | 17.4  | 13.8  | 20.6  |

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





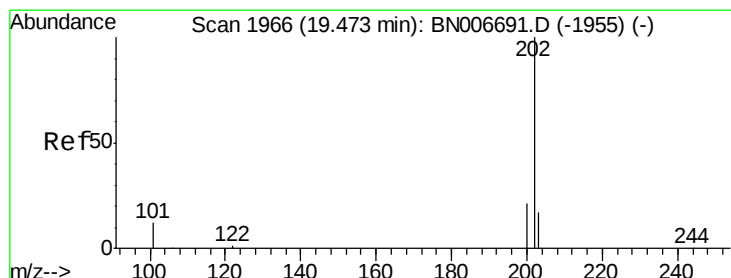
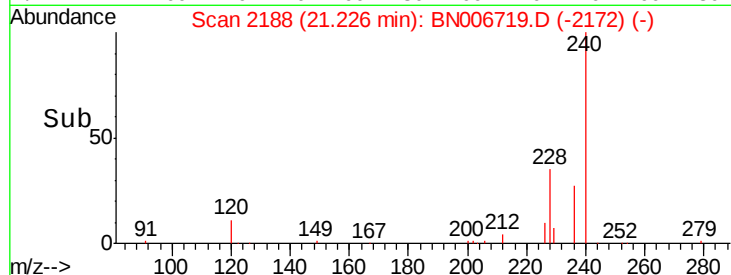
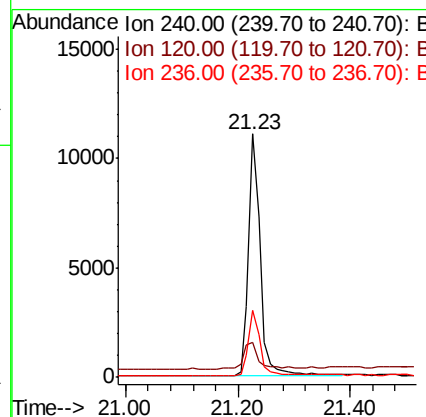
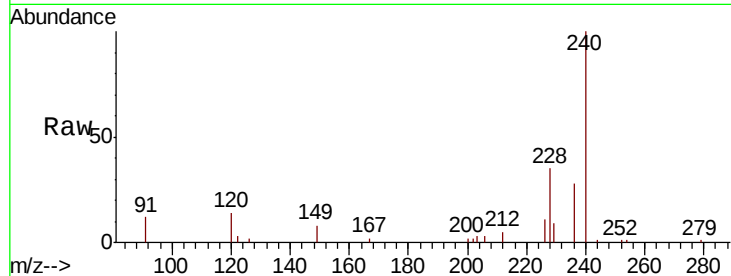
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.23 min Scan# 2188  
Delta R.T. -0.03 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.1  | 12.9  | 19.3  |
| 236     | 27.6  | 23.2  | 34.8  |

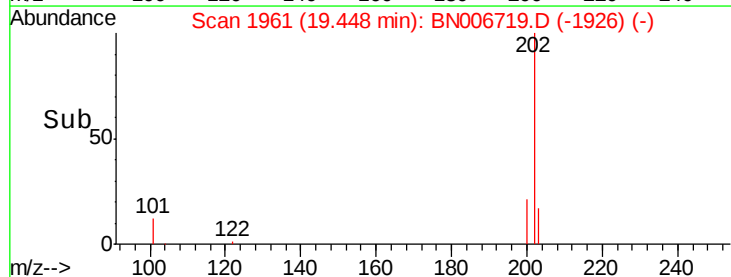
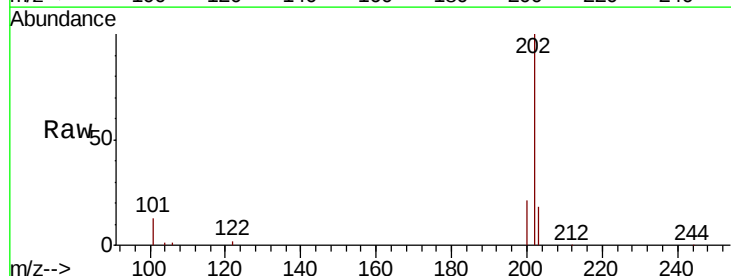
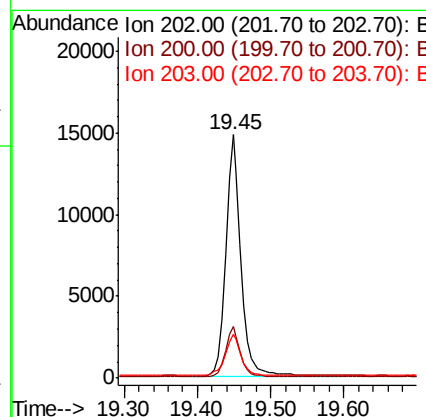
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#28  
Pyrene  
Concen: 0.329 ng  
RT: 19.45 min Scan# 1961  
Delta R.T. -0.02 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 16.8  | 25.2  |
| 203     | 18.3  | 14.2  | 21.2  |





#29

Terphenyl-d14

Concen: 0.172 ng

RT: 19.66 min Scan# 2003

Delta R.T. -0.02 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

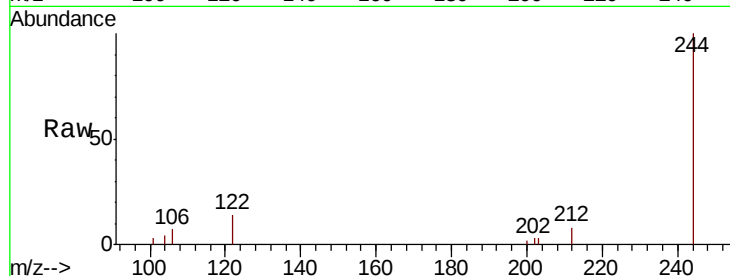
ClientSampleId :

PST-032-B204-062519MSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 244   | Resp: | 6380 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 8.4   | 7.0   | 10.4 |
| 122       | 13.7  | 11.5  | 17.3 |

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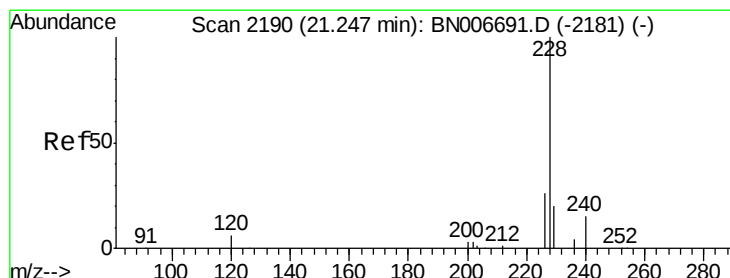
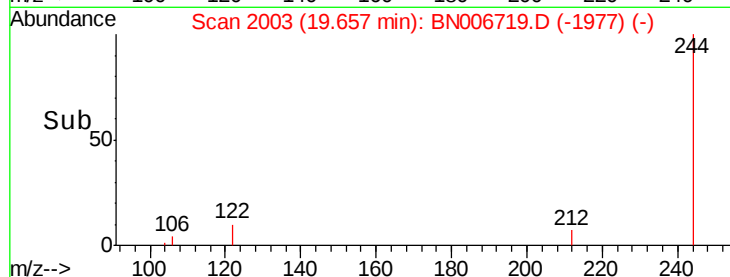
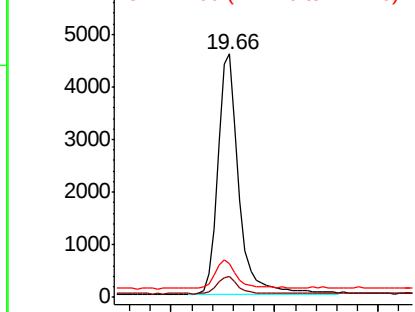


Abundance

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: 0.277 ng

RT: 21.22 min Scan# 2187

Delta R.T. -0.03 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

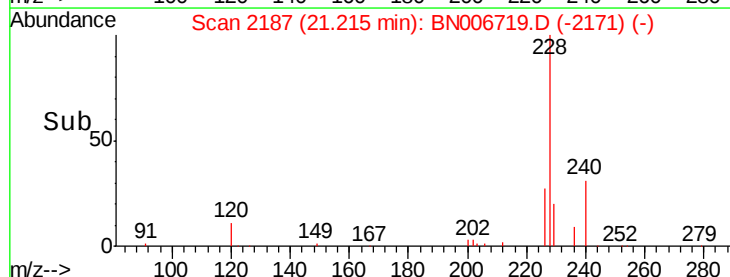
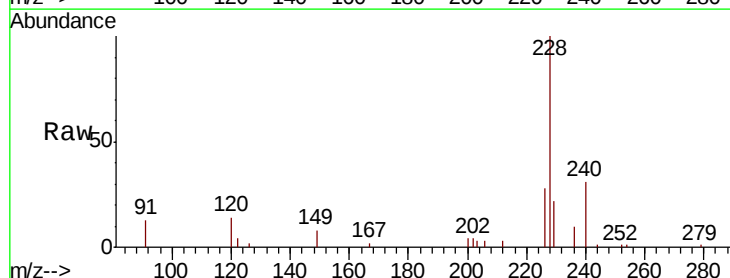
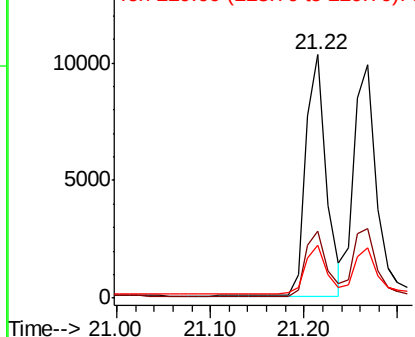
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 15381 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.5  | 21.5  | 32.3  |
| 229       | 21.6  | 16.2  | 24.4  |

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





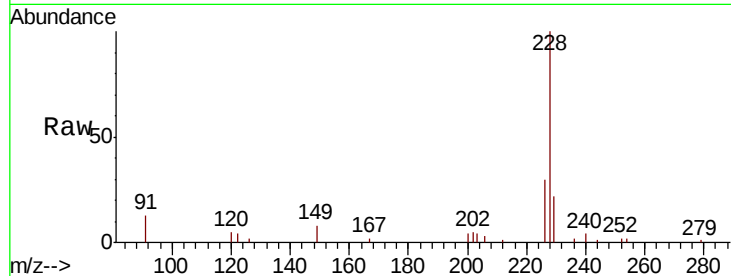
#31  
 Chrysene  
 Concen: 0.283 ng  
 RT: 21.27 min Scan# 2192  
 Delta R.T. -0.03 min  
 Lab File: BN006719.D  
 Acq: 05 Jul 2019 17:08

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 24.2  | 36.2  |
| 229     | 21.7  | 15.8  | 23.6  |

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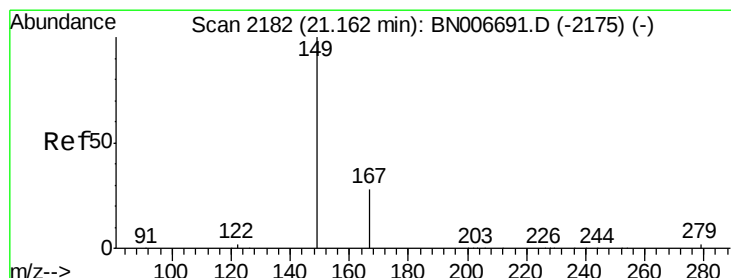
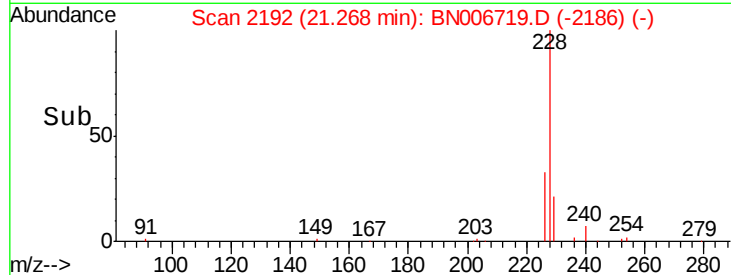
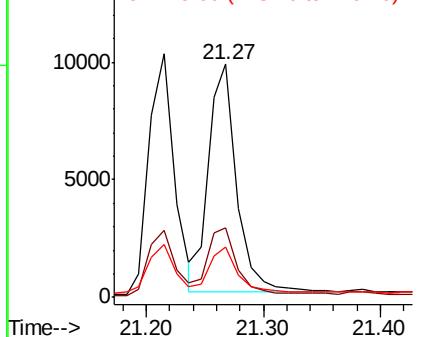


Abundance

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



#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.052 ng  
 RT: 21.13 min Scan# 2179  
 Delta R.T. -0.03 min  
 Lab File: BN006719.D  
 Acq: 05 Jul 2019 17:08

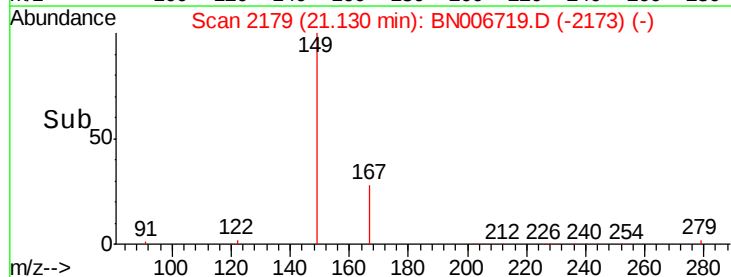
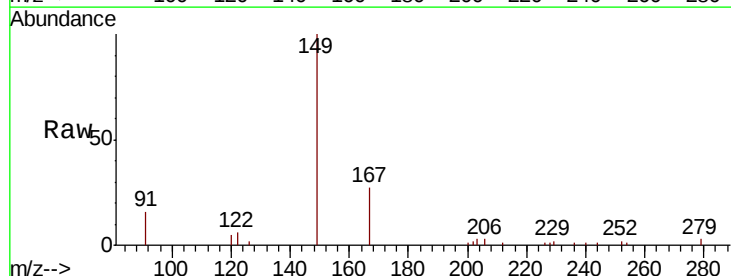
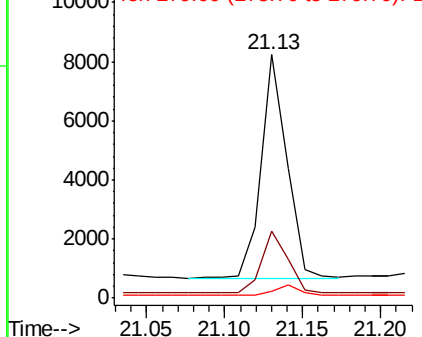
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.4  | 22.9  | 34.3  |
| 279     | 4.4   | 3.2   | 4.8   |

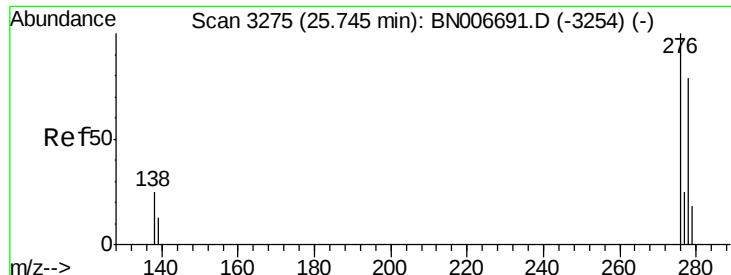
Abundance

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





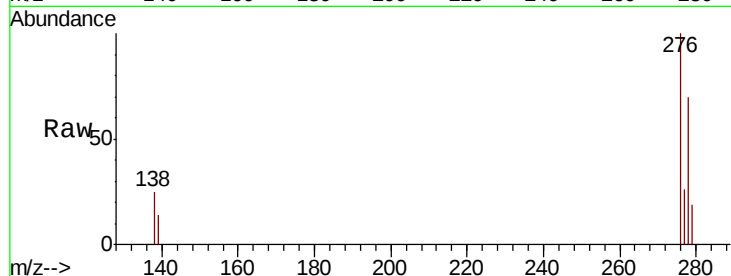
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.265 ng  
RT: 25.67 min Scan# 3254  
Delta R.T. -0.07 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.1  | 19.5  | 29.3  |
| 277     | 24.1  | 19.7  | 29.5  |

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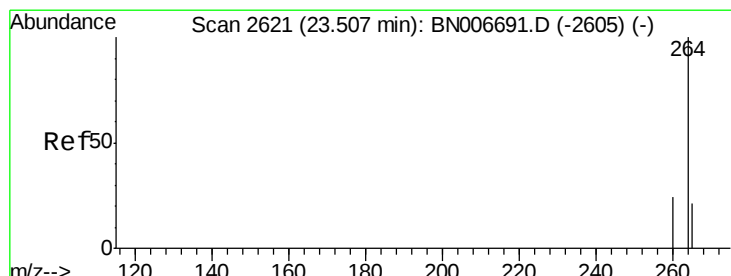
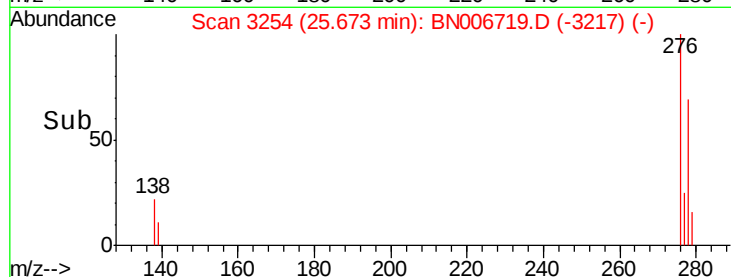
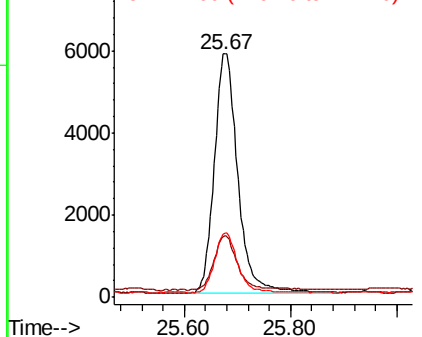


Abundance

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: 23.45 min Scan# 2604  
Delta R.T. -0.06 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

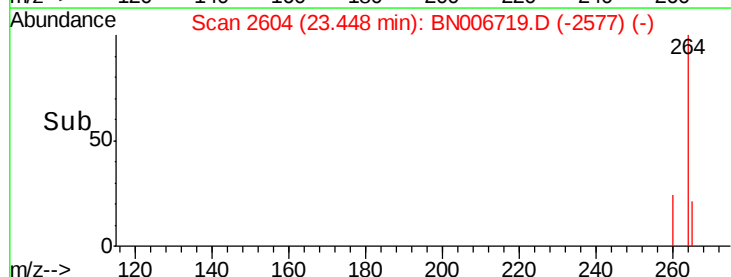
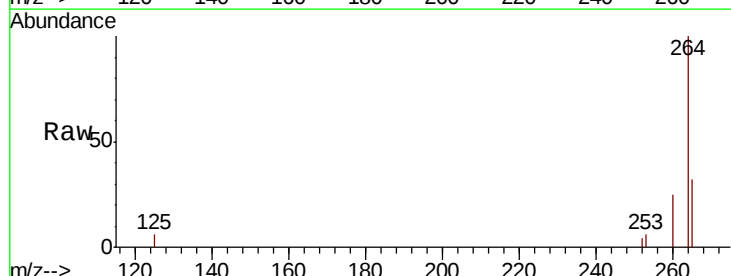
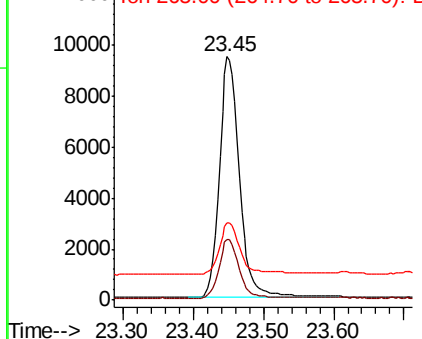
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 20.2  | 30.2  |
| 265     | 31.6  | 33.7  | 50.5# |

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





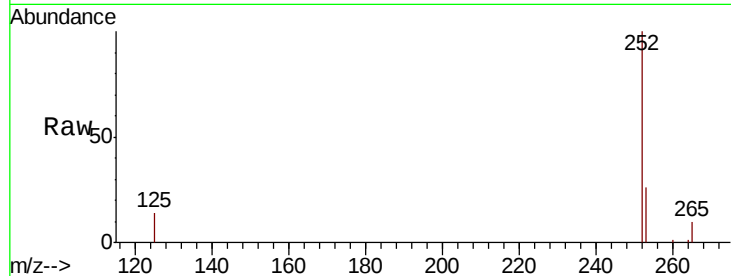
#35  
Benzo(b)fluoranthene  
Concen: 0.291 ng  
RT: 22.79 min Scan# 2411  
Delta R.T. -0.05 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
PST-032-B204-062519MSD

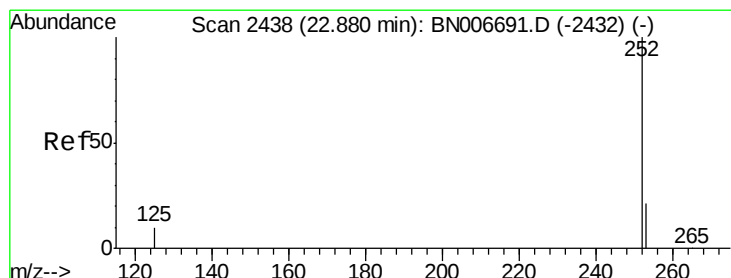
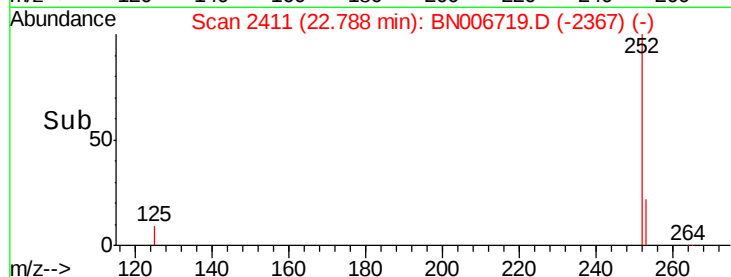
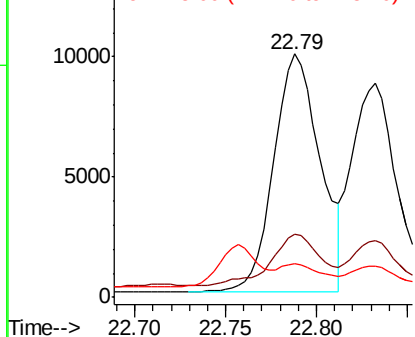
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.9  | 20.2  | 30.2  |
| 125     | 13.8  | 11.5  | 17.3  |

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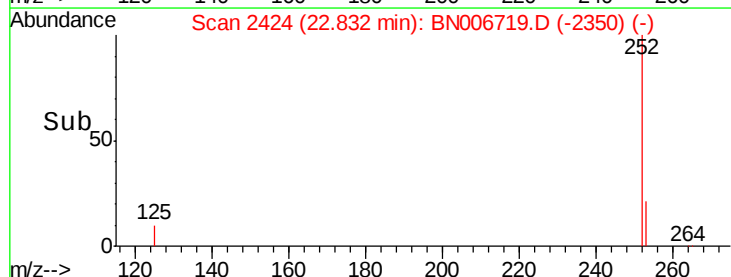
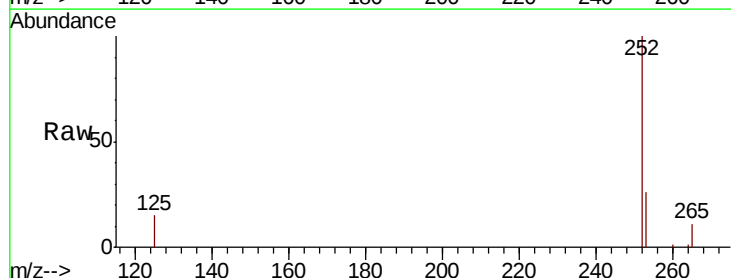
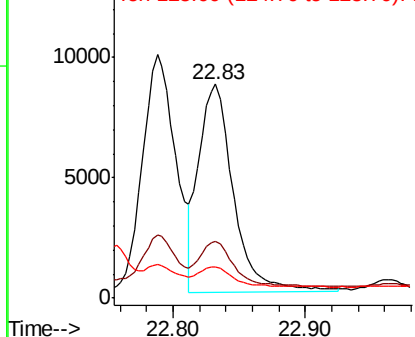
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#36  
Benzo(k)fluoranthene  
Concen: 0.239 ng  
RT: 22.83 min Scan# 2424  
Delta R.T. -0.05 min  
Lab File: BN006719.D  
Acq: 05 Jul 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.3  | 20.1  | 30.1  |
| 125     | 14.8  | 11.4  | 17.0  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.280 ng

RT: 23.36 min Scan# 2577

Delta R.T. -0.05 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

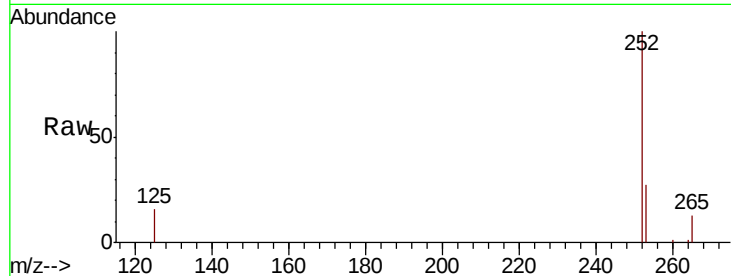
ClientSampleId :

PST-032-B204-062519MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 16329 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.1  | 21.4  | 32.2  |
| 125       | 15.7  | 13.3  | 19.9  |

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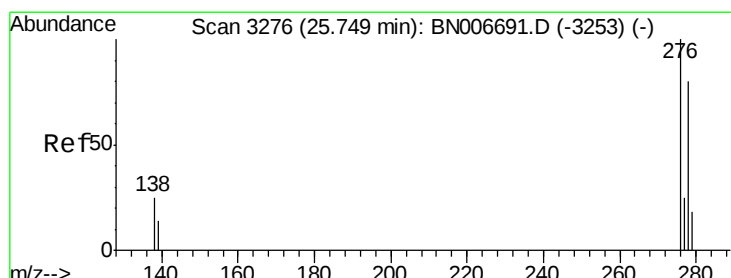
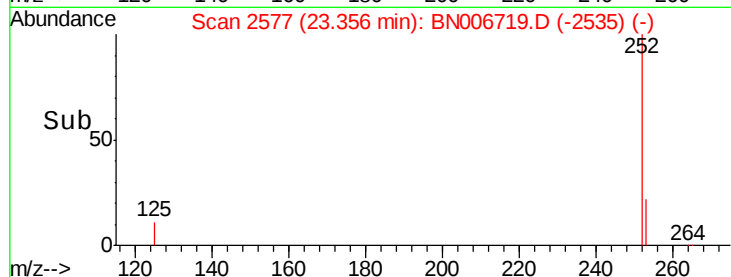
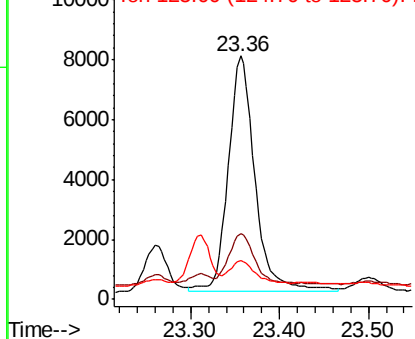


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.220 ng

RT: 25.68 min Scan# 3256

Delta R.T. -0.07 min

Lab File: BN006719.D

Acq: 05 Jul 2019 17:08

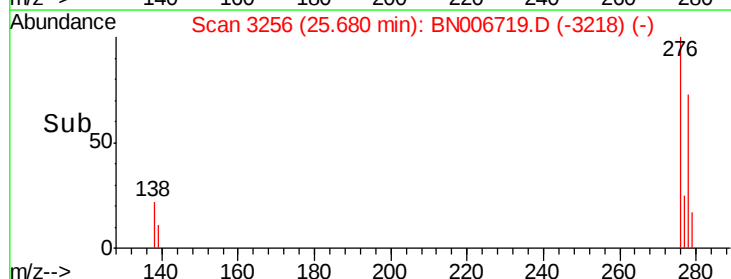
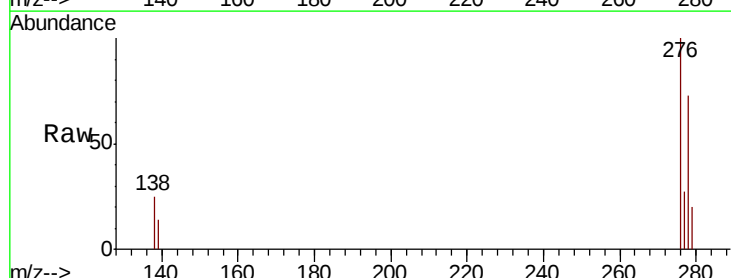
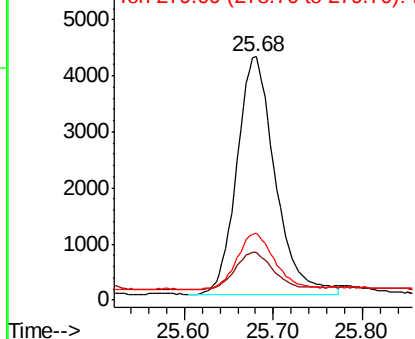
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12759 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 19.5  | 16.2  | 24.4  |
| 279       | 27.3  | 20.7  | 31.1  |

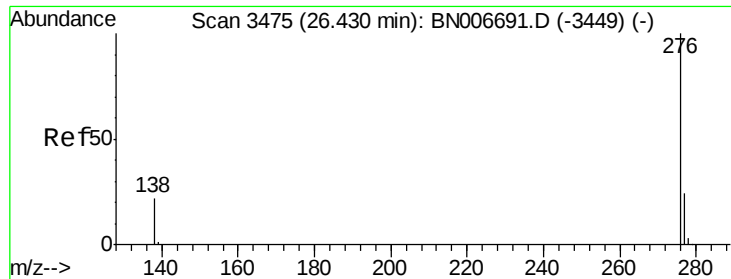
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.270 ng

RT: 26.35 min Scan# 3453

Delta R.T. -0.08 min

Lab File: BN006719.D

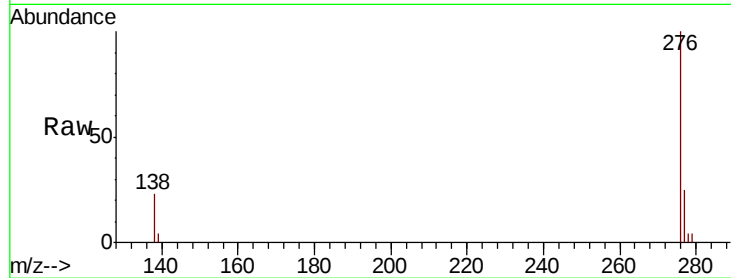
Acq: 05 Jul 2019 17:08

Instrument :

BNA\_N

ClientSampleId :

PST-032-B204-062519MSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 16151 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.1  | 20.6  | 30.8  |
| 138       | 22.9  | 19.7  | 29.5  |

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