

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032319\  
 Data File : BN004930.D  
 Acq On : 23 Mar 2019 20:50  
 Operator : JU/SJ  
 Sample : K1948-14MSD  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-025-SW046-031319MSD

Manual Integrations  
 APPROVED

Sohil  
 3/25/2019 1:34:45 PM

Quant Time: Mar 24 02:09:00 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 20 16:06:20 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 1870     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.47 | 136  | 7713     | 0.40 | ng    | -0.03    |
| 13) Acenaphthene-d10      | 14.33 | 164  | 4149     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.08 | 188  | 9691     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.28 | 240  | 13724    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.53 | 264  | 16434    | 0.40 | ng    | -0.02    |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.28  | 112 | 2331  | 0.46 | ng | 0.00  |
| 5) Phenol-d6                | 6.86  | 99  | 2927  | 0.46 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.84  | 82  | 2286  | 0.45 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.06 | 152 | 4946  | 0.37 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.84 | 330 | 1085  | 0.38 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.95 | 172 | 6680  | 0.39 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.12 | 212 | 12726 | 0.39 | ng | -0.02 |
| 29) Terphenyl-d14           | 19.72 | 244 | 8511  | 0.30 | ng | -0.01 |

#### Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.22  | 88  | 647   | 0.304 | ng | # 70   |
| 3) n-Nitrosodimethylamine      | 3.55  | 42  | 562   | 0.447 | ng | # 86   |
| 6) bis(2-Chloroethyl)ether     | 7.12  | 93  | 2444  | 0.428 | ng | 99     |
| 9) Naphthalene                 | 10.52 | 128 | 9257  | 0.428 | ng | 100    |
| 10) Hexachlorobutadiene        | 10.79 | 225 | 1507  | 0.365 | ng | # 99   |
| 12) 2-Methylnaphthalene        | 12.14 | 142 | 6376  | 0.397 | ng | 99     |
| 16) Acenaphthylene             | 14.05 | 152 | 9861  | 0.461 | ng | 100    |
| 17) Acenaphthene               | 14.39 | 154 | 5762  | 0.412 | ng | 99     |
| 18) Fluorene                   | 15.38 | 166 | 7726  | 0.395 | ng | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.27 | 248 | 2467  | 0.390 | ng | 96     |
| 21) Hexachlorobenzene          | 16.38 | 284 | 2633  | 0.363 | ng | 94     |
| 22) Pentachlorophenol          | 16.74 | 266 | 2003m | 1.414 | ng |        |
| 23) Phenanthrene               | 17.12 | 178 | 18046 | 0.577 | ng | 99     |
| 24) Anthracene                 | 17.22 | 178 | 12868 | 0.460 | ng | 100    |
| 26) Fluoranthene               | 19.15 | 202 | 32623 | 0.811 | ng | 99     |
| 28) Pyrene                     | 19.51 | 202 | 32041 | 0.766 | ng | 97     |
| 30) Benzo(a)anthracene         | 21.26 | 228 | 27937 | 0.621 | ng | 98     |
| 31) Chrysene                   | 21.32 | 228 | 28004 | 0.591 | ng | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 13639 | 0.758 | ng | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.79 | 276 | 34761 | 0.507 | ng | 98     |
| 35) Benzo(b)fluoranthene       | 22.85 | 252 | 36558 | 0.615 | ng | # 96   |
| 36) Benzo(k)fluoranthene       | 22.89 | 252 | 27955 | 0.478 | ng | # 96   |
| 37) Benzo(a)pyrene             | 23.43 | 252 | 31695 | 0.581 | ng | # 97   |
| 38) Dibenzo(a,h)anthracene     | 25.80 | 278 | 23902 | 0.378 | ng | # 95   |
| 39) Benzo(g,h,i)perylene       | 26.49 | 276 | 30992 | 0.482 | ng | 97     |

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

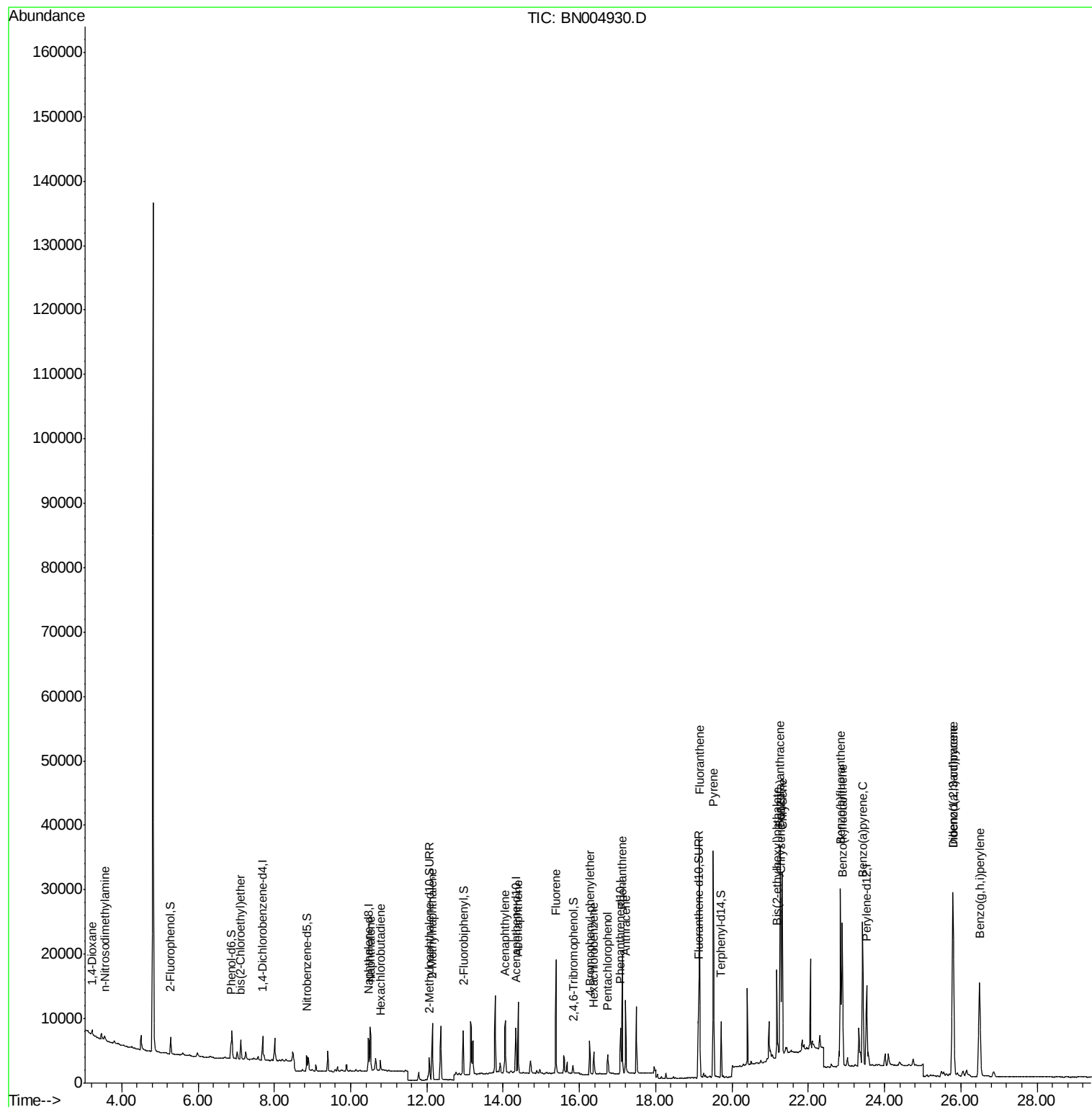
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032319\  
Data File : BN004930.D  
Acq On : 23 Mar 2019 20:50  
Operator : JU/SJ  
Sample : K1948-14MSD  
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BNA\_N  
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PST-025-SW046-031319MSD

Manual Integrations  
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Quant Time: Mar 24 02:09:00 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 20 16:06:20 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.69 min Scan# 579

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

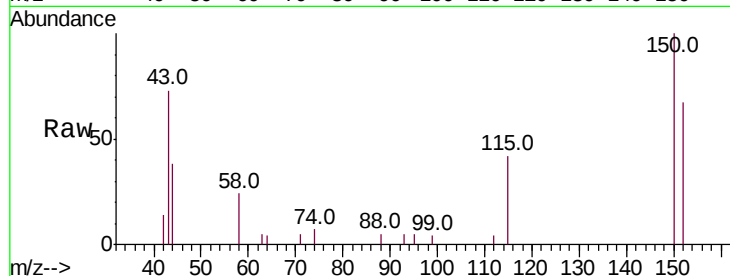
ClientSampleId :

PST-025-SW046-031319MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 1870  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 148.9 | 126.2 | 189.4 |
| 115      | 63.2  | 52.6  | 79.0  |

Manual Integrations  
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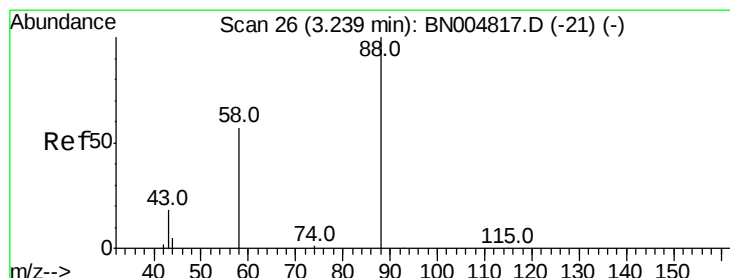
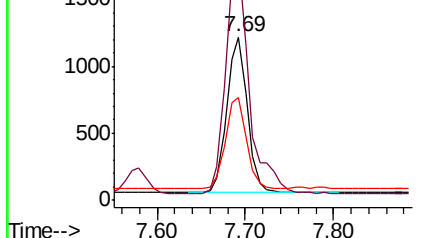
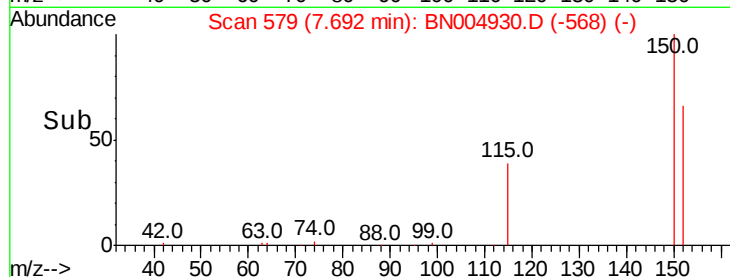
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.304 ng

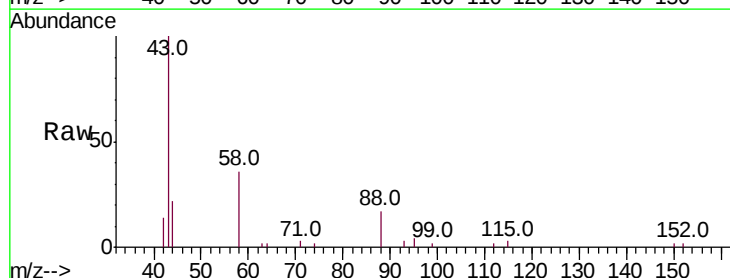
RT: 3.22 min Scan# 24

Delta R.T. -0.02 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

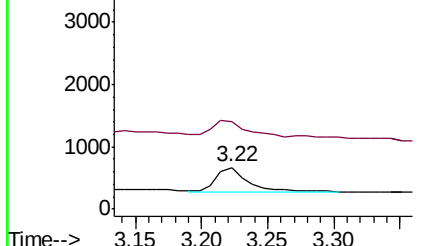
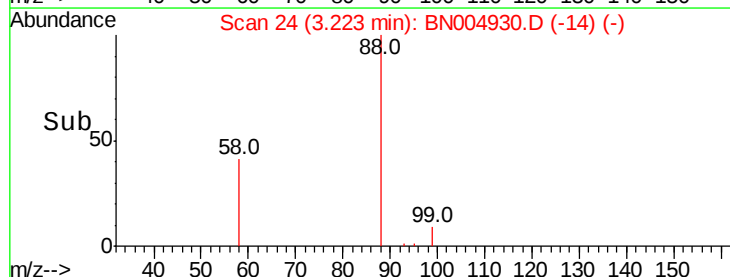
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 647   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 82.1  | 51.4  | 77.2# |
| 43       | 0.0   | 20.0  | 30.0# |



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: 0.447 ng

RT: 3.55 min Scan# 65

Delta R.T. -0.02 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

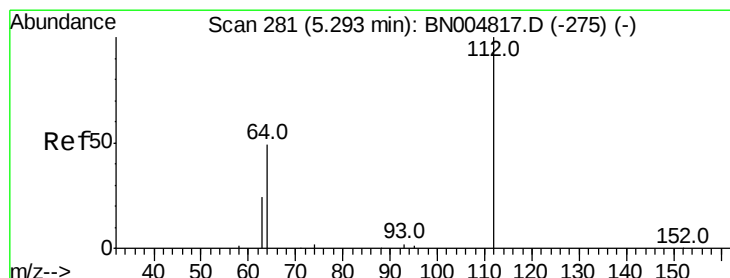
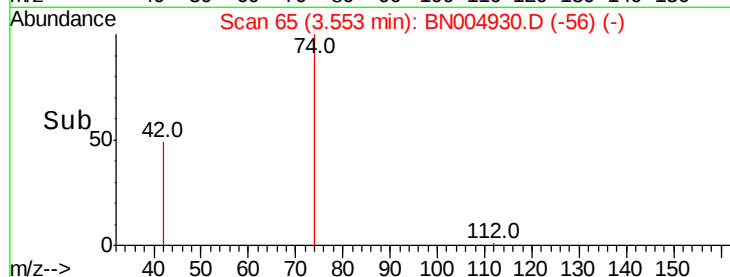
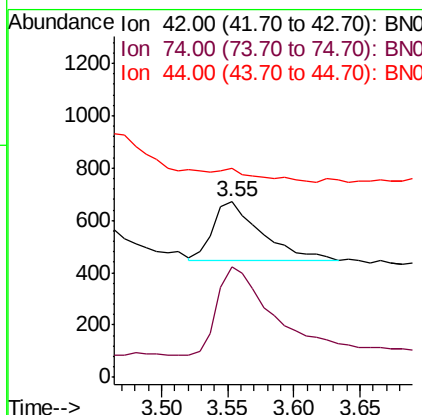
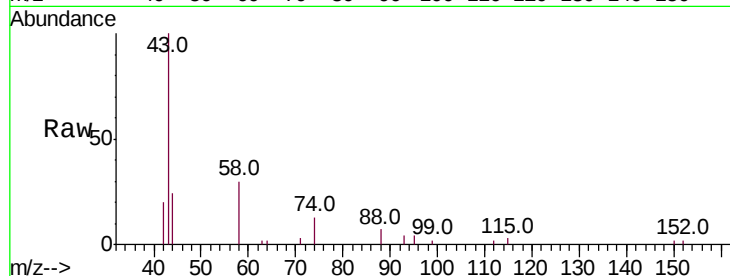
ClientSampleId :

PST-025-SW046-031319MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 562   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 178.5 | 128.4 | 192.6 |
| 44       | 0.0   | 6.1   | 9.1#  |

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#4

2-Fluorophenol

Concen: 0.459 ng

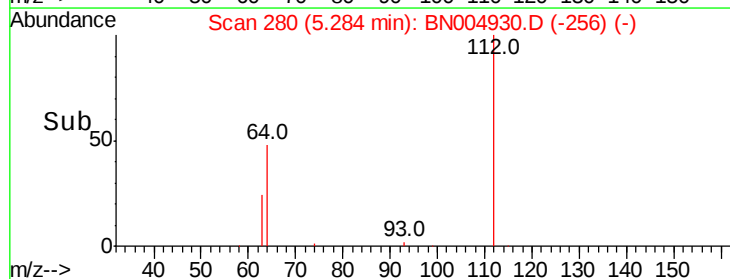
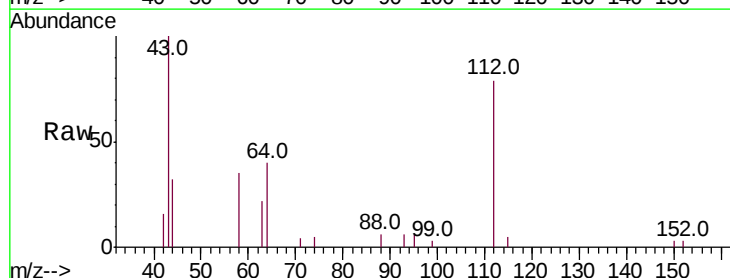
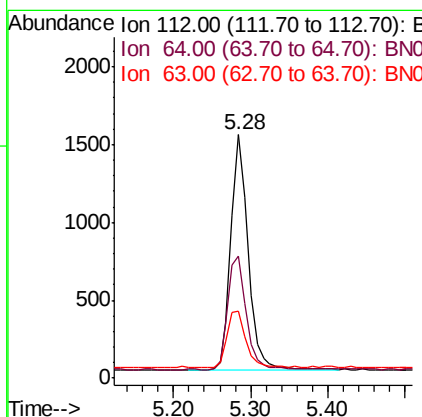
RT: 5.28 min Scan# 280

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 2331  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 51.9  | 40.0  | 60.0  |
| 63       | 25.7  | 20.2  | 30.2  |





#5

Phenol-d6

Concen: 0.463 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

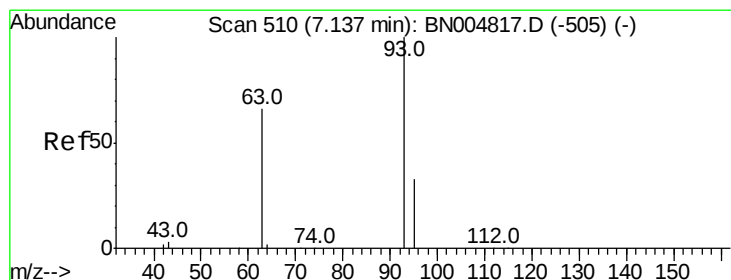
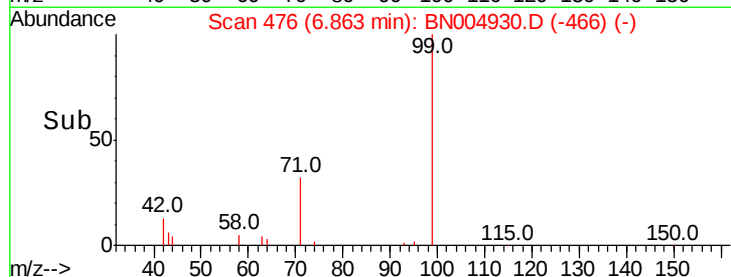
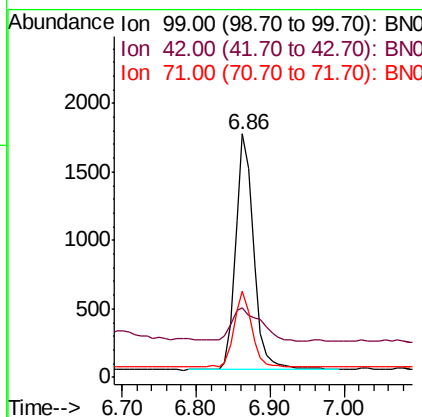
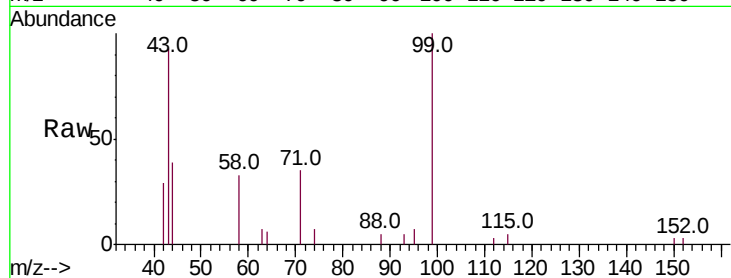
ClientSampleId :

PST-025-SW046-031319MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 2927  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 22.3  | 12.7  | 19.1# |
| 71        | 31.7  | 26.6  | 40.0  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.428 ng

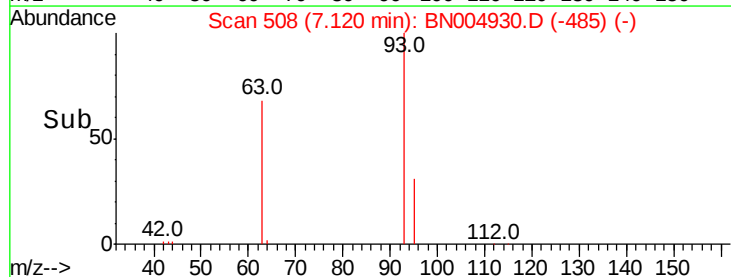
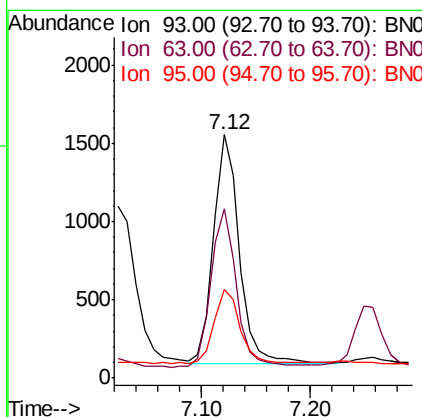
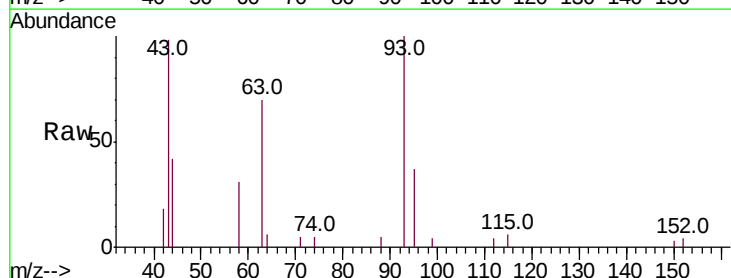
RT: 7.12 min Scan# 508

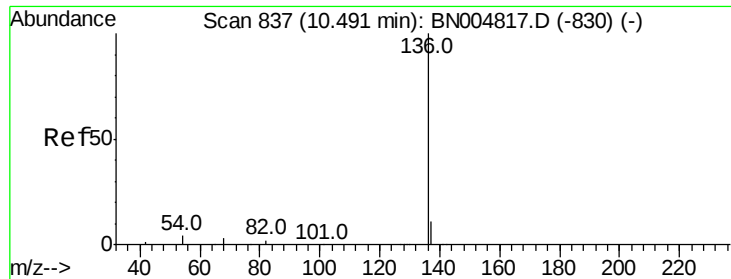
Delta R.T. -0.02 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 93    | Resp: | 2444 |
| Ion Ratio | Lower | Upper |      |
| 93        | 100   |       |      |
| 63        | 67.0  | 52.6  | 78.8 |
| 95        | 32.5  | 25.9  | 38.9 |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.03 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

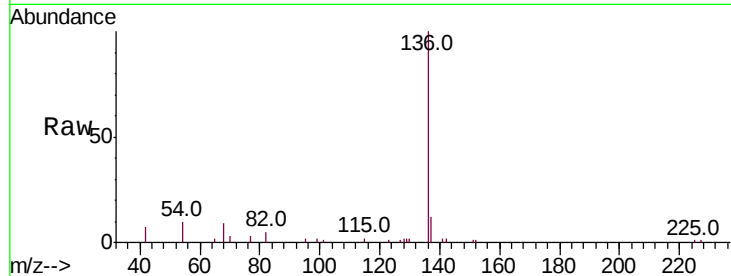
ClientSampleId :

PST-025-SW046-031319MSD

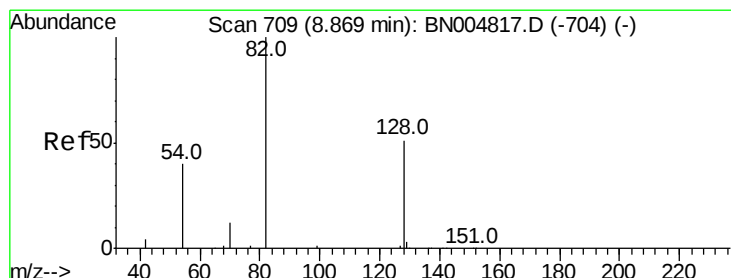
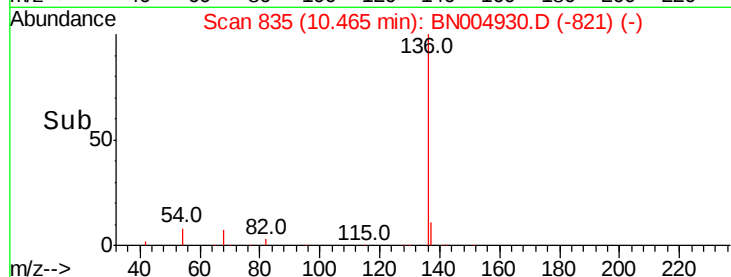
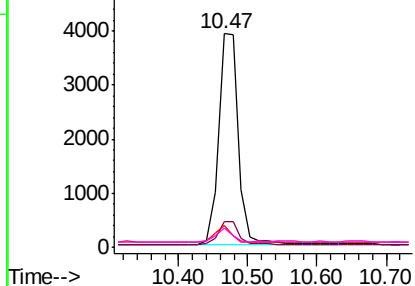
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.3  | 9.6   | 14.4  |
| 54      | 10.1  | 4.2   | 6.2#  |
| 68      | 8.7   | 3.9   | 5.9#  |

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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: 0.448 ng

RT: 8.84 min Scan# 707

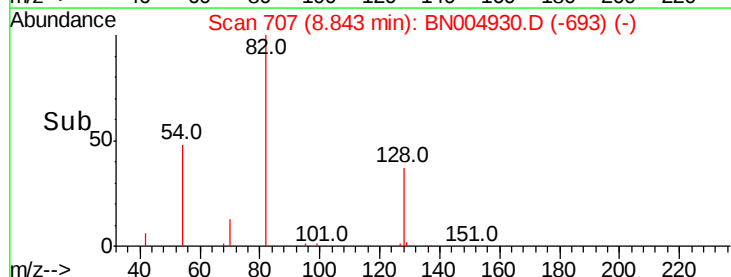
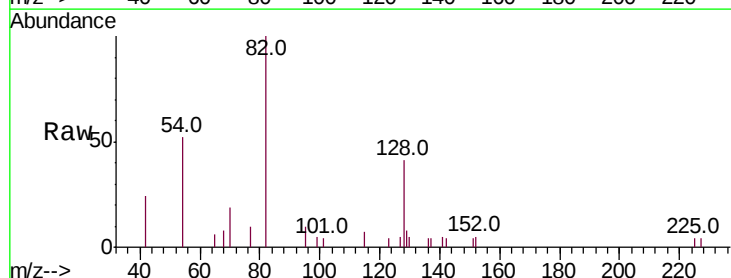
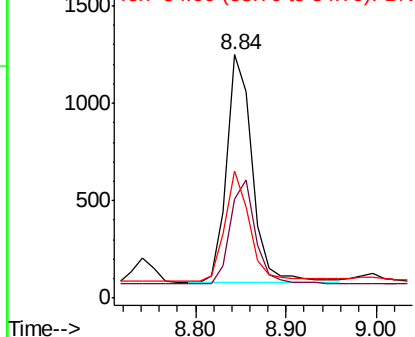
Delta R.T. -0.03 min

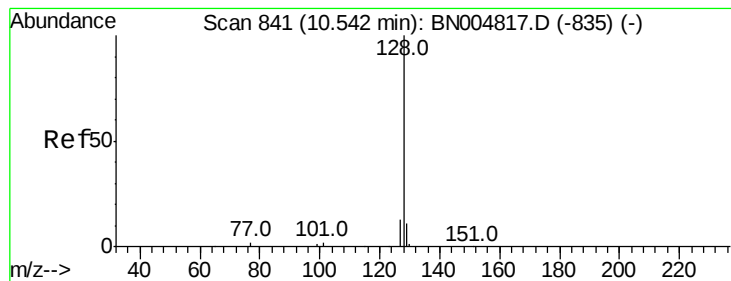
Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.7  | 43.0  | 64.6# |
| 54      | 52.1  | 35.3  | 52.9  |

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: 0.428 ng

RT: 10.52 min Scan# 839

Delta R.T. -0.03 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

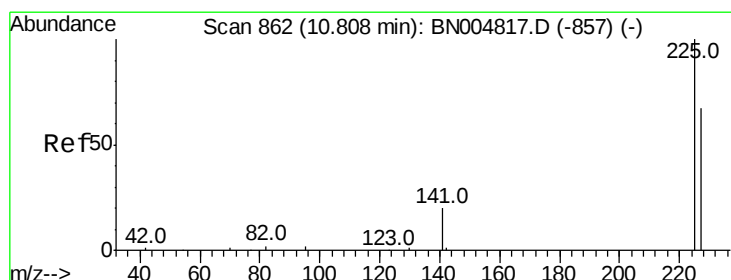
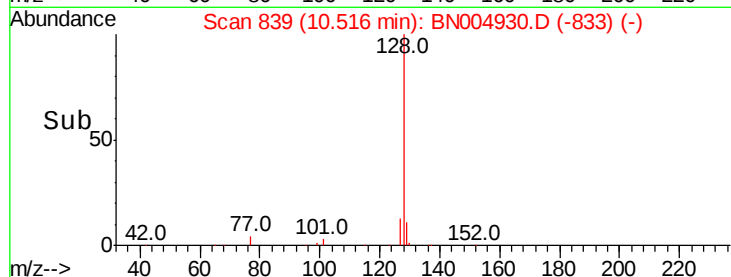
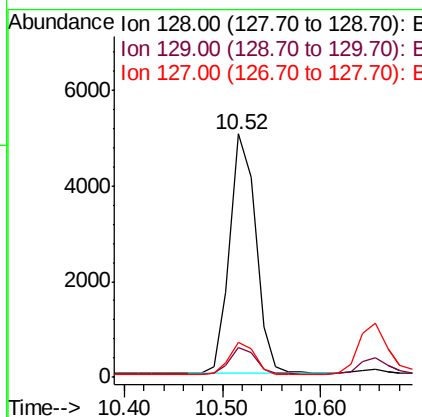
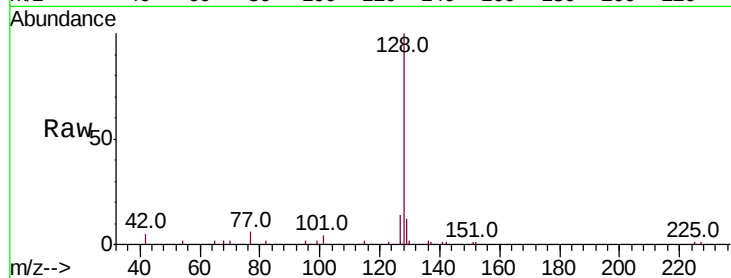
ClientSampleId :

PST-025-SW046-031319MSD

|             |       |       |
|-------------|-------|-------|
| Tot Ion:128 | Resp: | 9257  |
| Ion Ratio   | Lower | Upper |
| 128 100     |       |       |
| 129 12.3    | 9.9   | 14.9  |
| 127 14.3    | 11.3  | 16.9  |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.365 ng

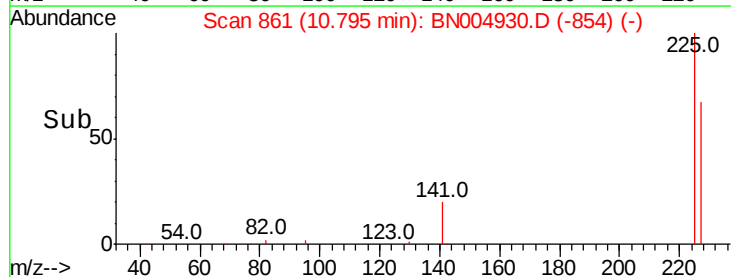
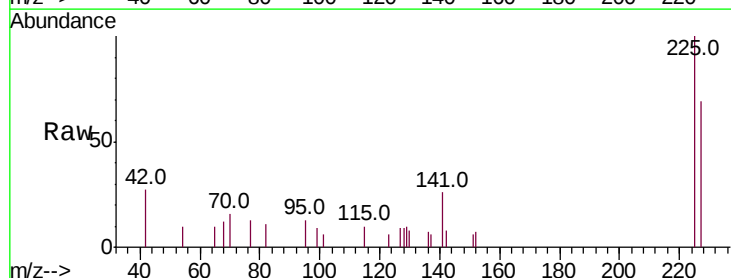
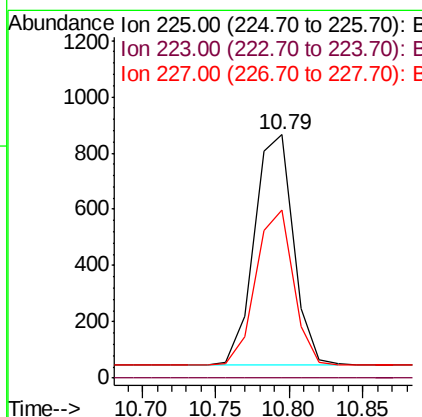
RT: 10.79 min Scan# 861

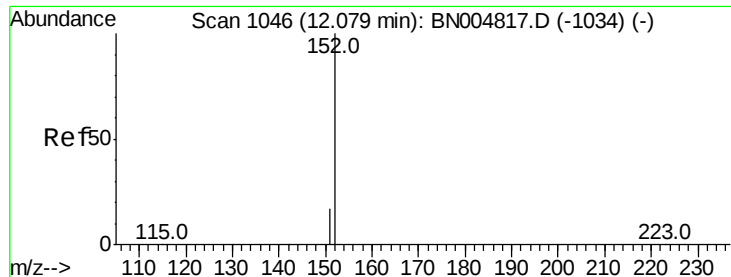
Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:225 | Resp: | 1507  |
| Ion Ratio   | Lower | Upper |
| 225 100     |       |       |
| 223 0.0     | 0.0   | 0.0   |
| 227 64.8    | 52.2  | 78.4  |





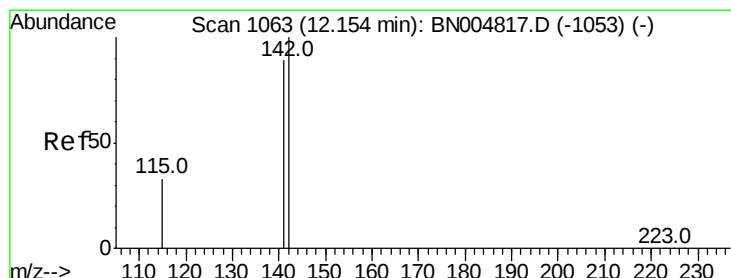
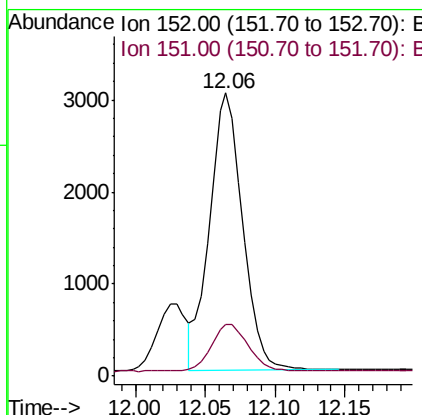
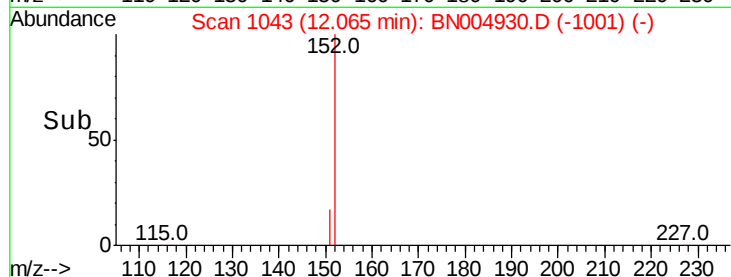
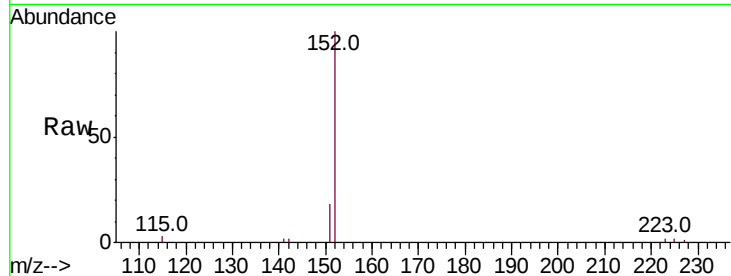
#11  
2-Methylnaphthalene-d10  
Concen: 0.367 ng  
RT: 12.06 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BN004930.D  
Acq: 23 Mar 2019 20:50

Instrument :  
BNA\_N  
ClientSampleId :  
PST-025-SW046-031319MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.5  | 23.3  |

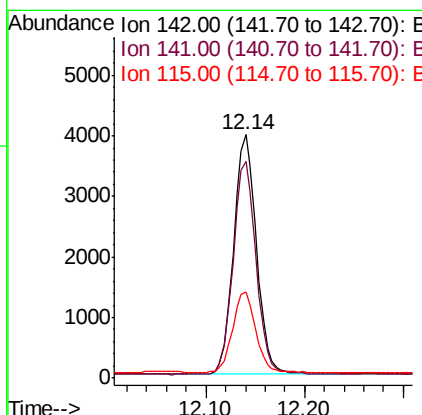
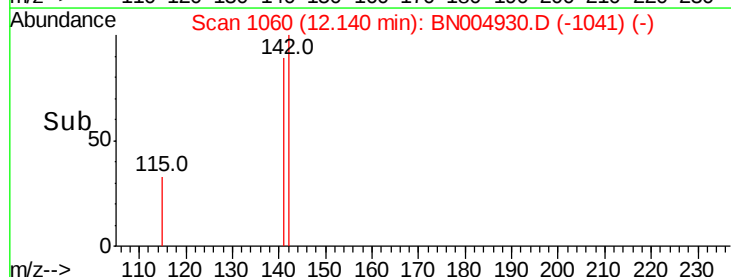
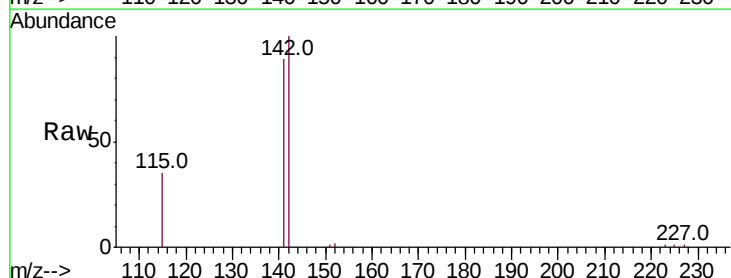
Manual Integrations  
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3/25/2019 1:34:45 PM



#12  
2-Methylnaphthalene  
Concen: 0.397 ng  
RT: 12.14 min Scan# 1060  
Delta R.T. -0.01 min  
Lab File: BN004930.D  
Acq: 23 Mar 2019 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.0  | 71.4  | 107.2 |
| 115     | 35.3  | 27.5  | 41.3  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

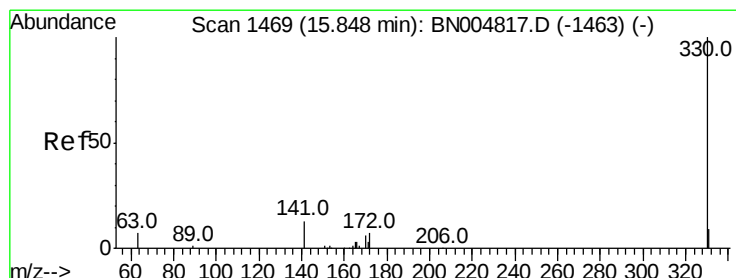
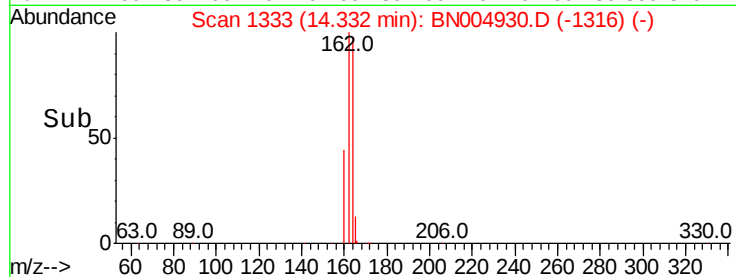
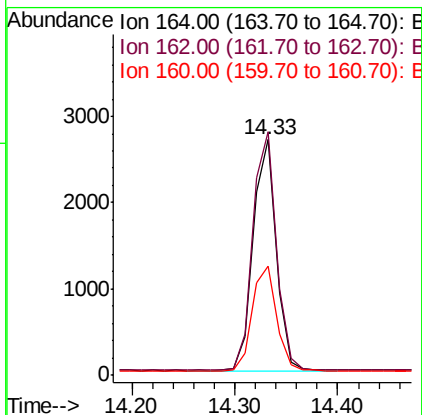
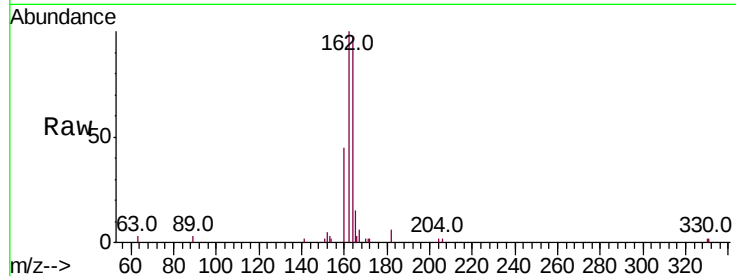
ClientSampleId :

PST-025-SW046-031319MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 4149  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 103.4 | 81.9  | 122.9 |
| 160       | 46.6  | 36.6  | 54.8  |

Manual Integrations  
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#14

2,4,6-Tribromophenol

Concen: 0.379 ng

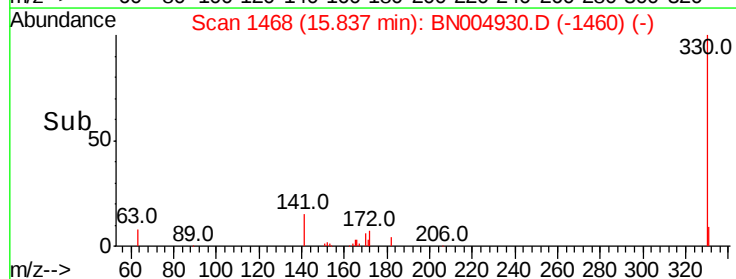
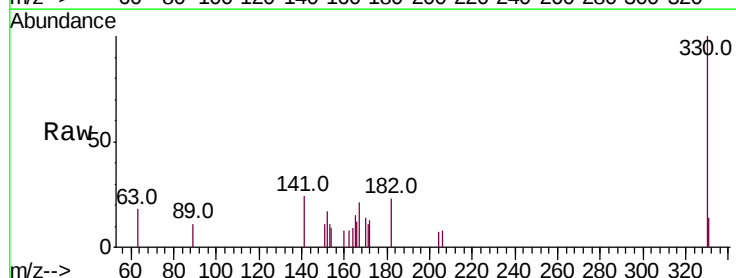
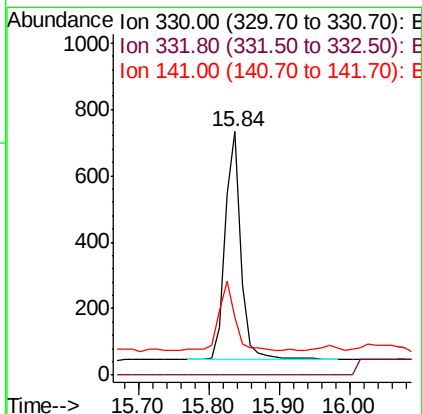
RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 330   | Resp: | 1085 |
| Ion Ratio | Lower | Upper |      |
| 330       | 100   |       |      |
| 332       | 0.0   | 0.0   | 0.0  |
| 141       | 30.9  | 20.9  | 31.3 |





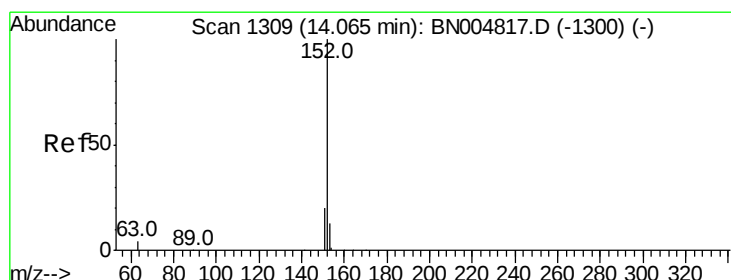
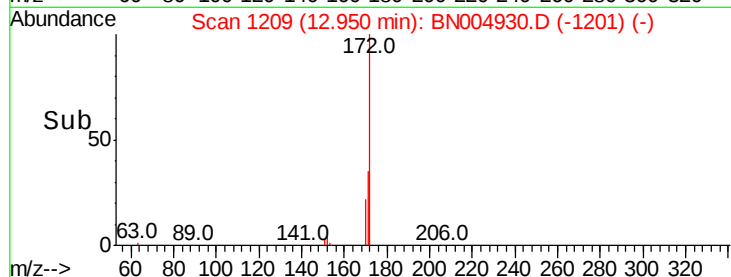
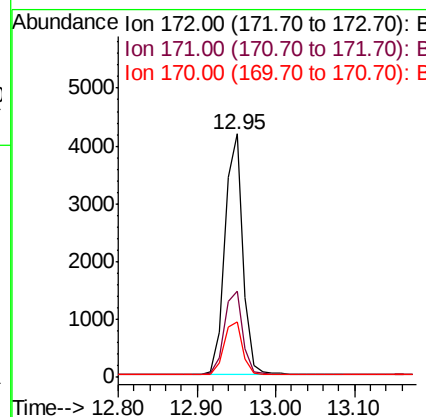
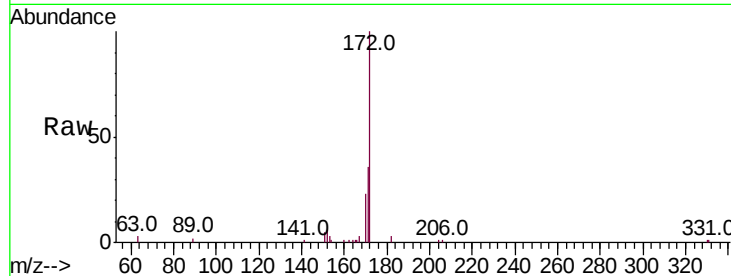
#15  
2-Fluorobiphenyl  
Concen: 0.390 ng  
RT: 12.95 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: BN004930.D  
Acq: 23 Mar 2019 20:50

Instrument :  
BNA\_N  
ClientSampleId :  
PST-025-SW046-031319MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 28.7  | 43.1  |
| 170     | 22.7  | 18.7  | 28.1  |

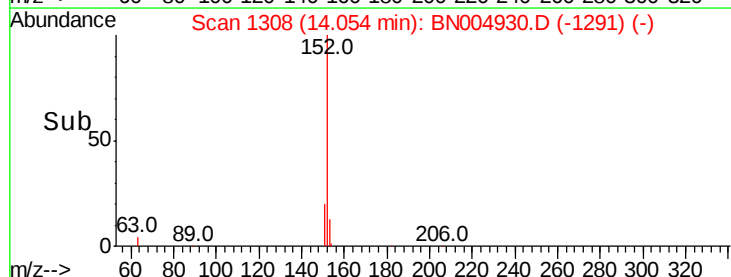
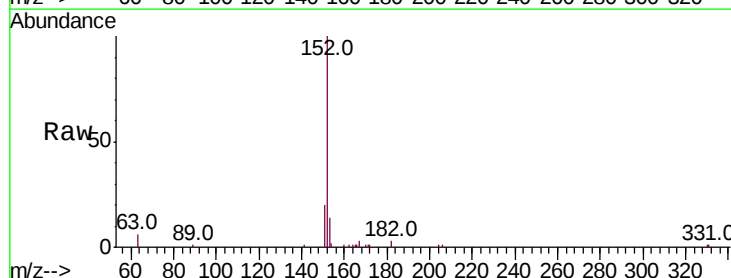
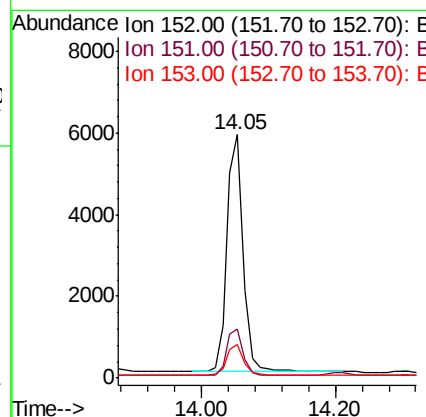
Manual Integrations  
APPROVED

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#16  
Acenaphthylene  
Concen: 0.461 ng  
RT: 14.05 min Scan# 1308  
Delta R.T. -0.01 min  
Lab File: BN004930.D  
Acq: 23 Mar 2019 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.1  | 24.1  |
| 153     | 13.3  | 10.5  | 15.7  |





#17

Acenaphthene

Concen: 0.412 ng

RT: 14.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

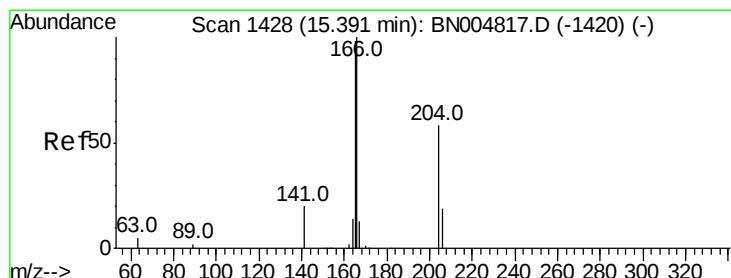
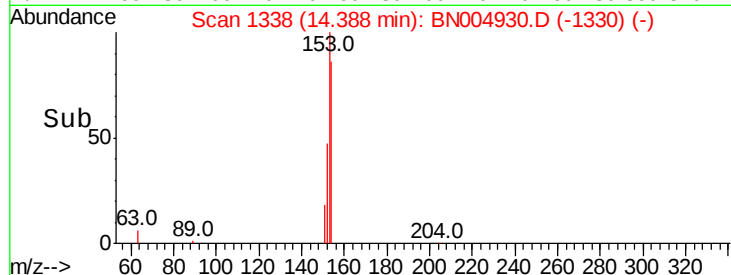
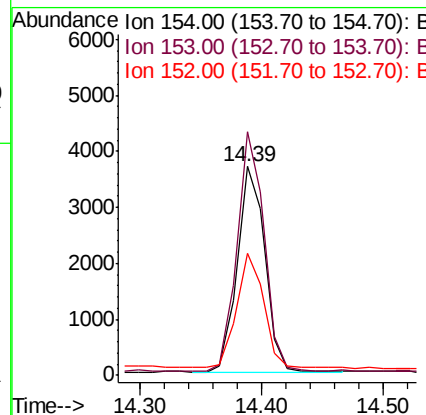
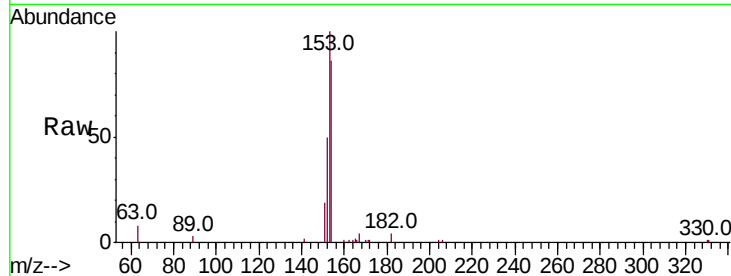
ClientSampleId :

PST-025-SW046-031319MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 5762  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 114.6 | 91.4  | 137.2 |
| 152       | 56.3  | 44.2  | 66.2  |

Manual Integrations  
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#18

Fluorene

Concen: 0.395 ng

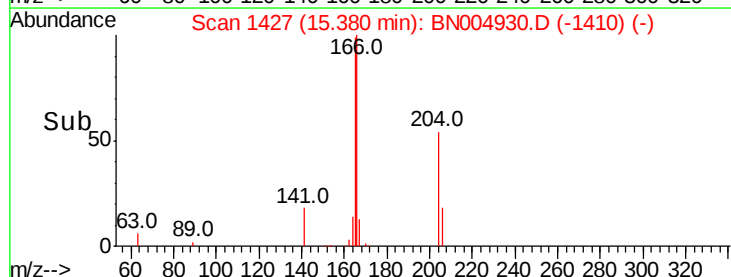
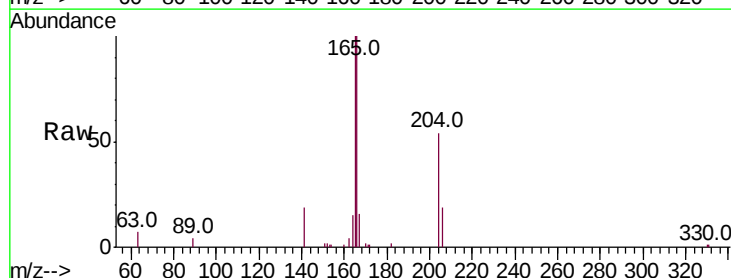
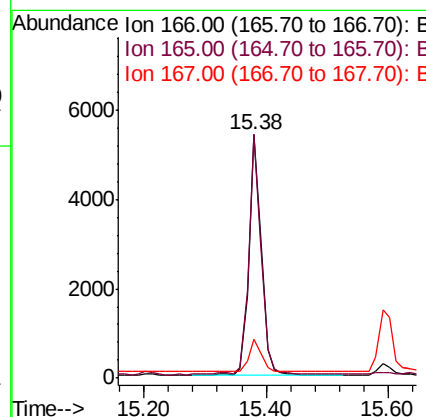
RT: 15.38 min Scan# 1427

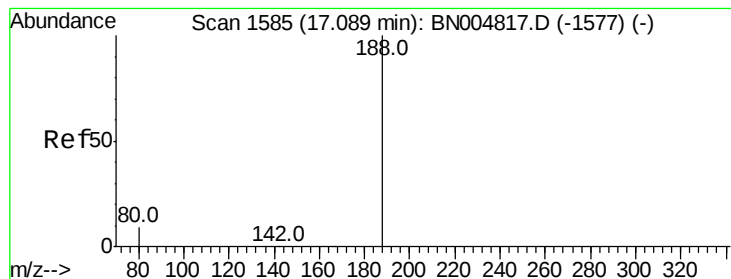
Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 7726  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.3  | 78.2  | 117.4 |
| 167       | 13.5  | 11.0  | 16.4  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

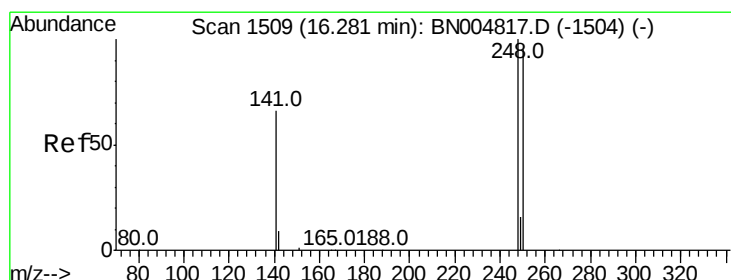
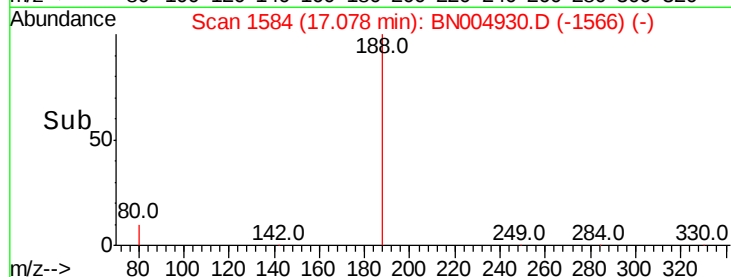
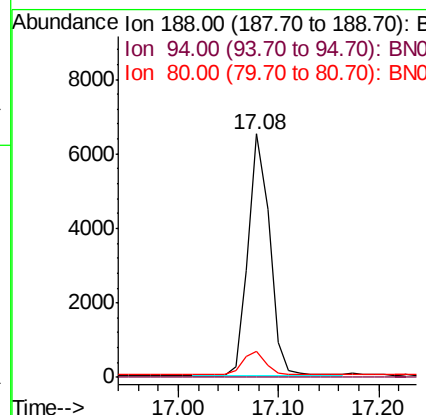
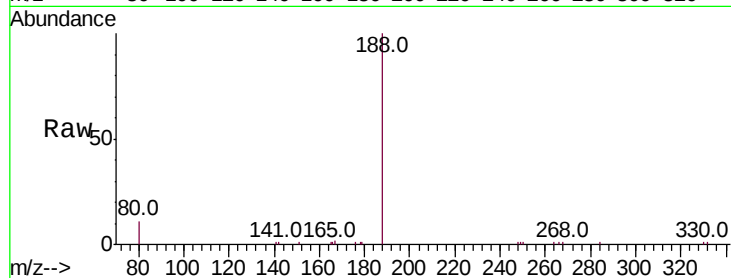
ClientSampleId :

PST-025-SW046-031319MSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 9691 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 10.8  | 7.4   | 11.2 |

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#20

4-Bromophenyl-phenylether

Concen: 0.390 ng

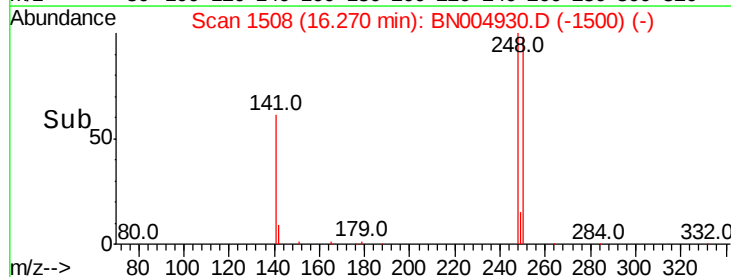
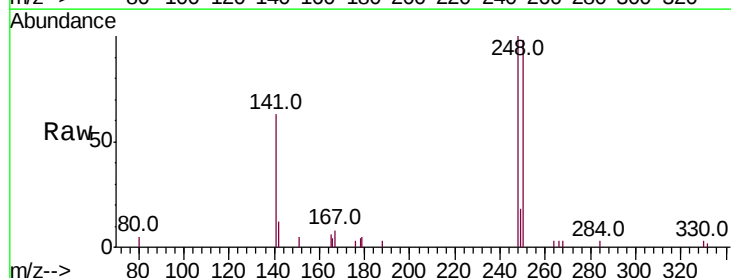
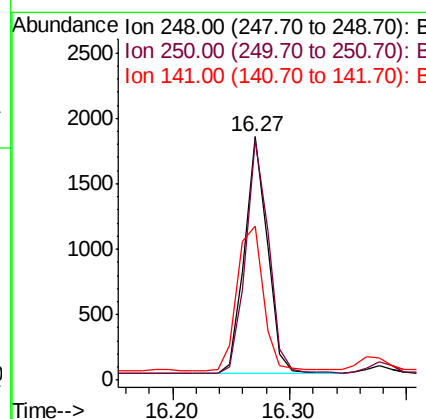
RT: 16.27 min Scan# 1508

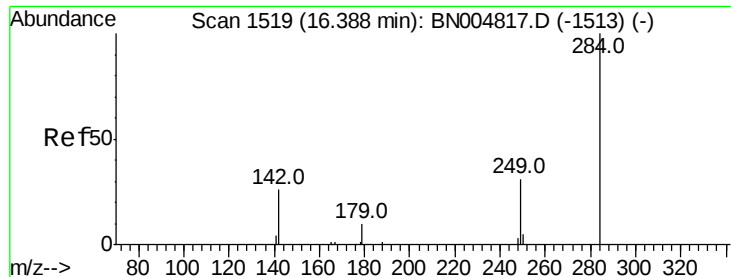
Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 2467  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 98.4  | 76.2  | 114.4 |
| 141       | 63.3  | 53.9  | 80.9  |





#21

Hexachlorobenzene

Concen: 0.363 ng

RT: 16.38 min Scan# 1518

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

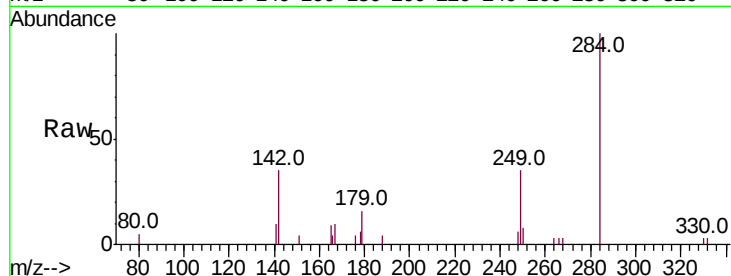
ClientSampleId :

PST-025-SW046-031319MSD

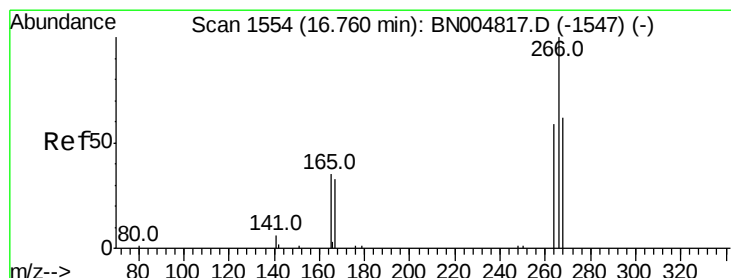
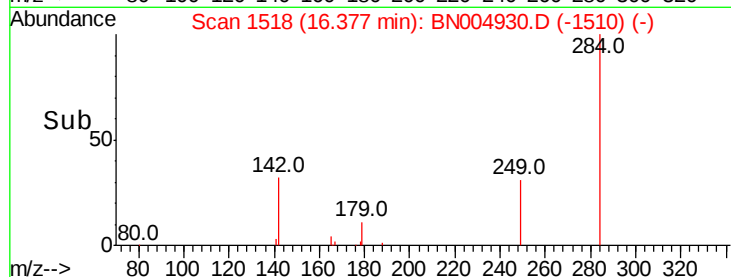
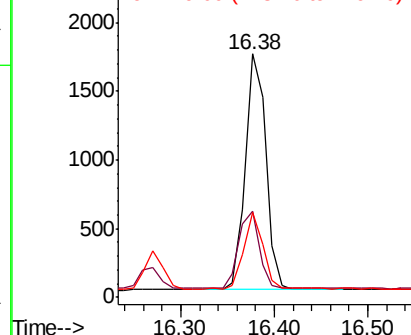
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 2633 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 32.9  | 22.6  | 34.0 |
| 249       | 30.0  | 22.5  | 33.7 |

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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: 1.414 ng m

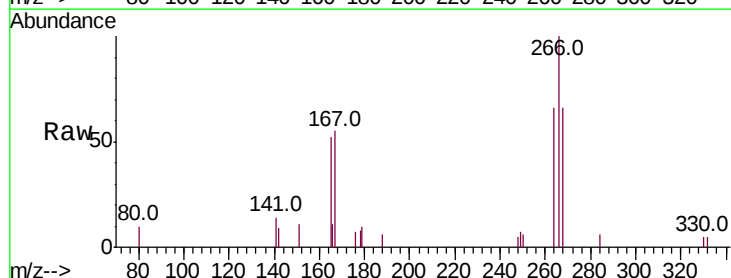
RT: 16.74 min Scan# 1552

Delta R.T. -0.02 min

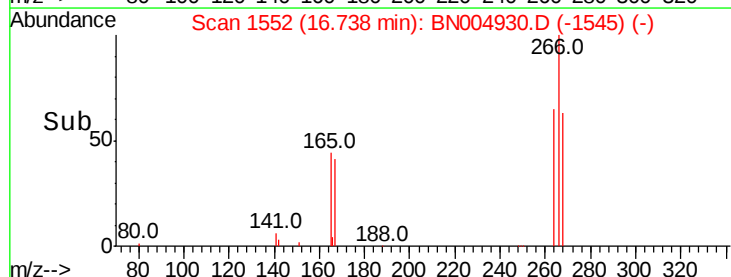
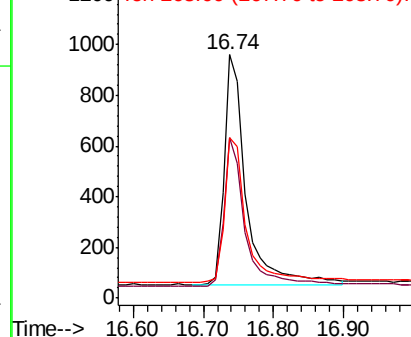
Lab File: BN004930.D

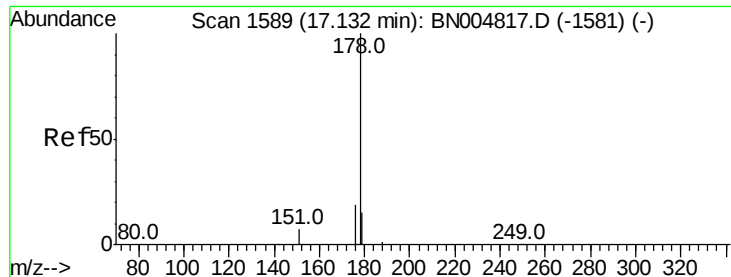
Acq: 23 Mar 2019 20:50

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 2003 |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 65.9  | 53.1  | 79.7 |
| 268       | 65.9  | 57.7  | 86.5 |



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: 0.577 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

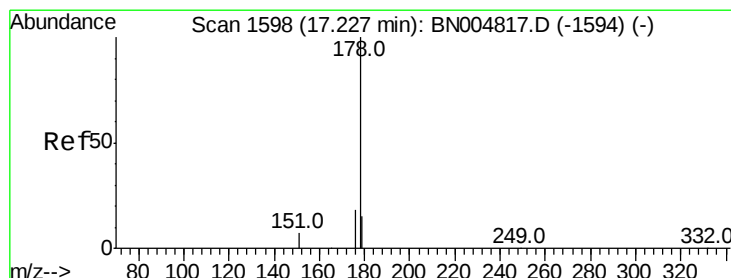
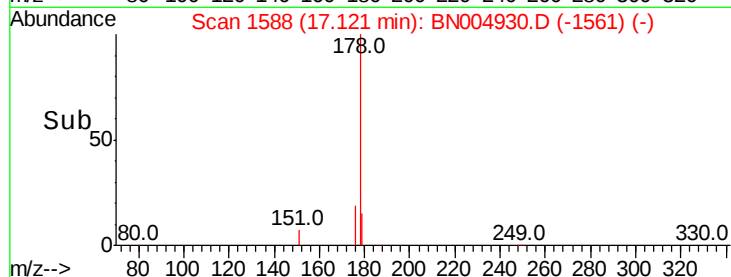
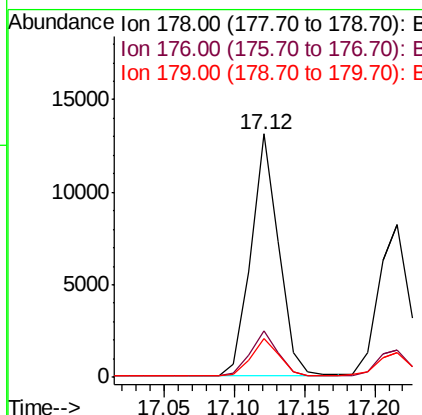
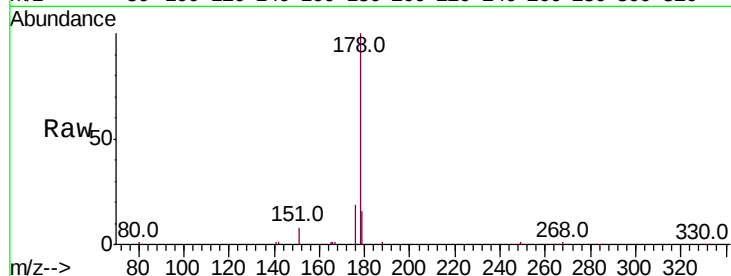
ClientSampleId :

PST-025-SW046-031319MSD

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 18046     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.9  | 14.9 22.3 |
| 179         | 15.5  | 12.1 18.1 |

Manual Integrations  
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#24

Anthracene

Concen: 0.460 ng

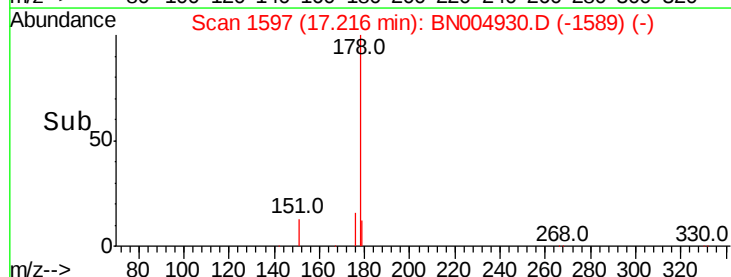
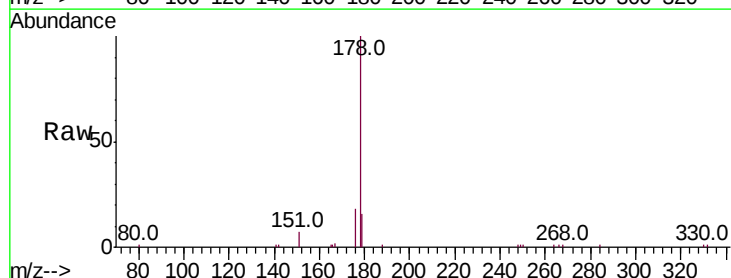
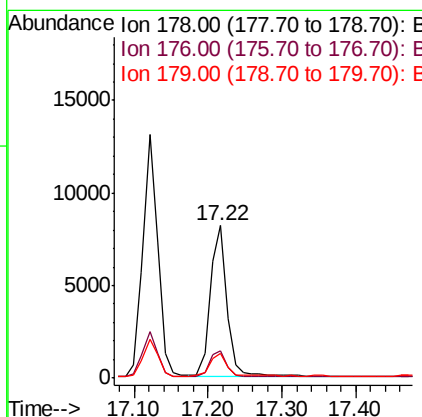
RT: 17.22 min Scan# 1597

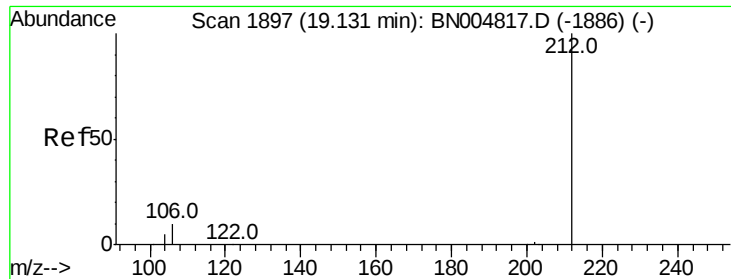
Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 12868     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.0  | 14.5 21.7 |
| 179         | 15.0  | 12.2 18.4 |





#25

Fluoranthene-d10

Concen: 0.392 ng

RT: 19.12 min Scan# 1894

Delta R.T. -0.02 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

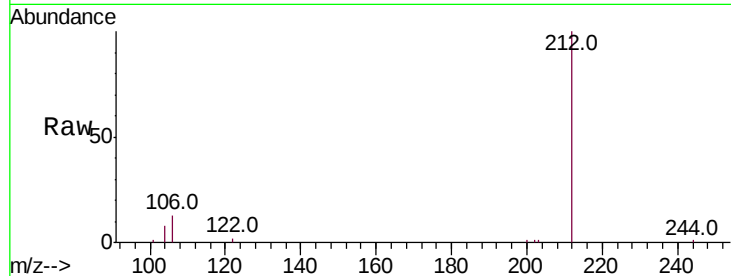
ClientSampleId :

PST-025-SW046-031319MSD

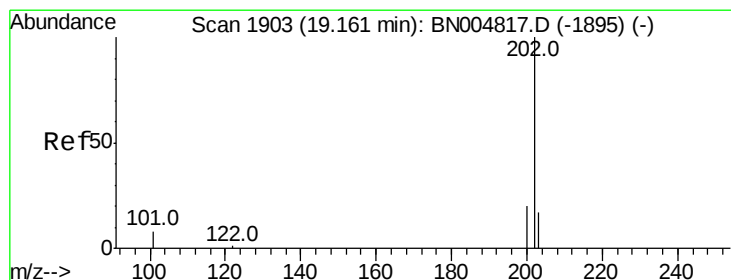
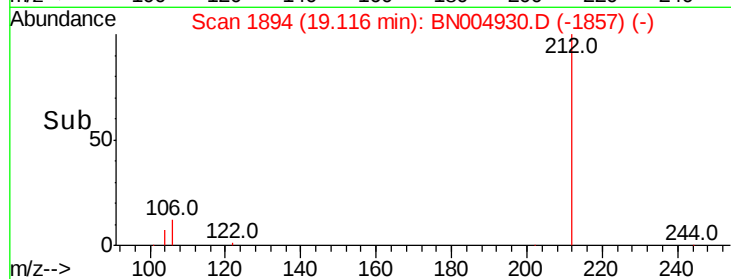
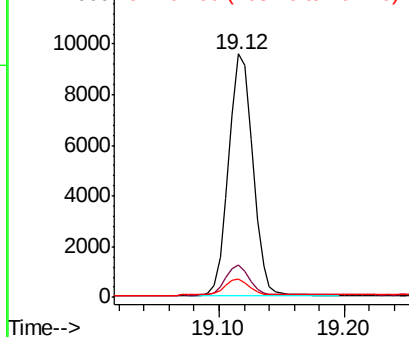
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 12726 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 12.3  | 8.6   | 13.0  |
| 104       | 7.1   | 4.7   | 7.1   |

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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: 0.811 ng

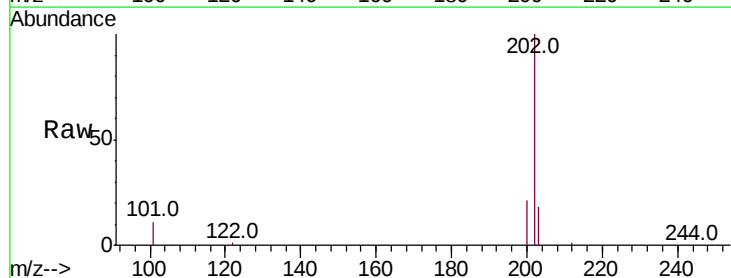
RT: 19.15 min Scan# 1900

Delta R.T. -0.02 min

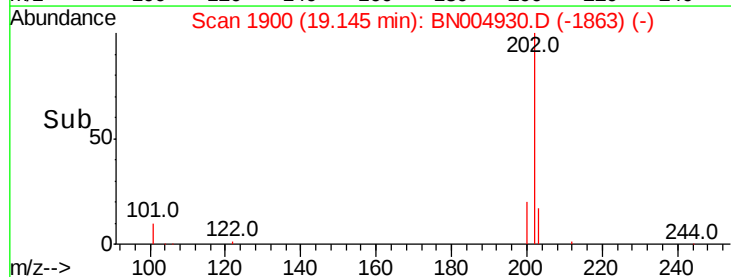
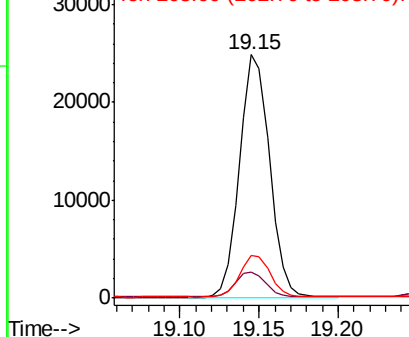
Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 32623 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.6  | 7.5   | 11.3  |
| 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: 21.28 min Scan# 2193

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

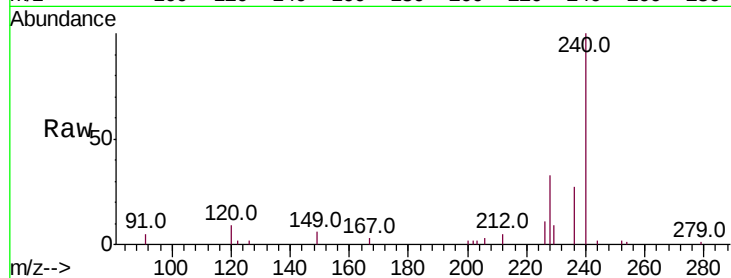
ClientSampleId :

PST-025-SW046-031319MSD

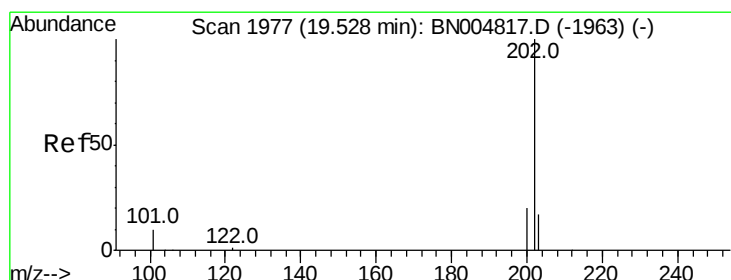
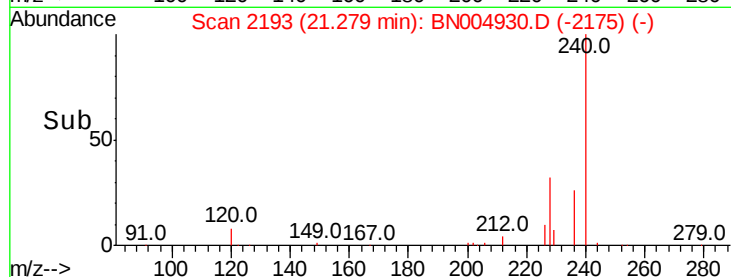
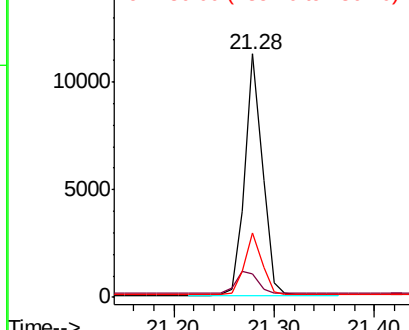
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 240   | Resp: | 13724 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 9.5   | 7.2   | 10.8  |
| 236       | 26.7  | 20.9  | 31.3  |

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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: 0.766 ng

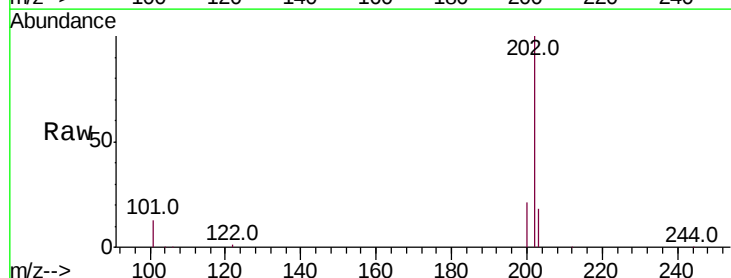
RT: 19.51 min Scan# 1974

Delta R.T. -0.02 min

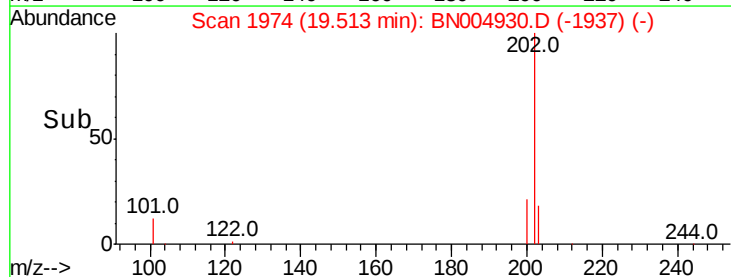
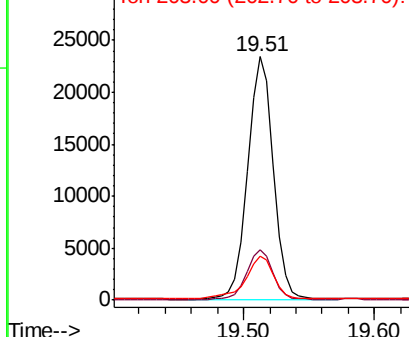
Lab File: BN004930.D

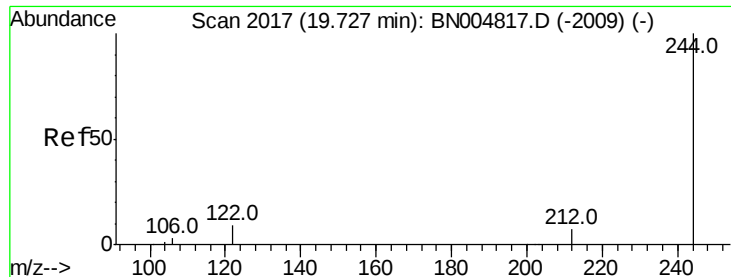
Acq: 23 Mar 2019 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 32041 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.7  | 16.3  | 24.5  |
| 203       | 19.6  | 14.0  | 21.0  |



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





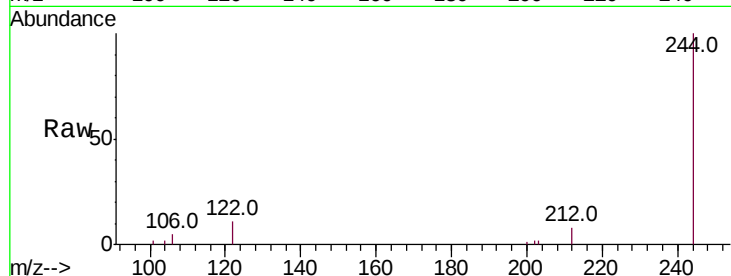
#29  
 Terphenyl-d14  
 Concen: 0.303 ng  
 RT: 19.72 min Scan# 2015  
 Delta R.T. -0.01 min  
 Lab File: BN004930.D  
 Acq: 23 Mar 2019 20:50

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-025-SW046-031319MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.8   | 5.8   | 8.6   |
| 122     | 11.4  | 7.9   | 11.9  |

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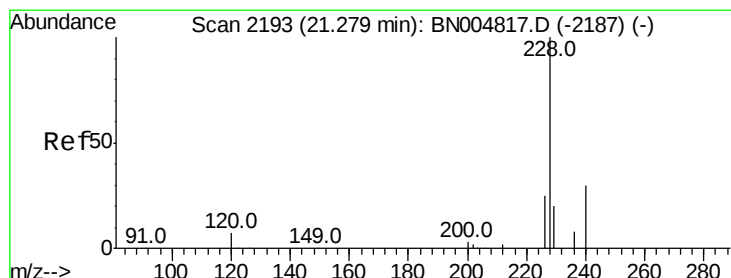
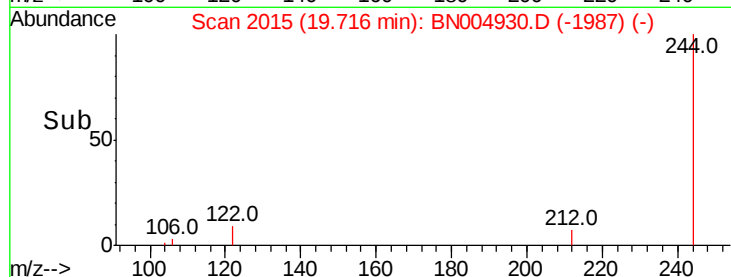
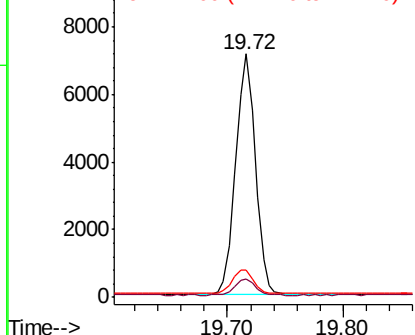


Abundance

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: 0.621 ng  
 RT: 21.26 min Scan# 2191  
 Delta R.T. -0.02 min  
 Lab File: BN004930.D  
 Acq: 23 Mar 2019 20:50

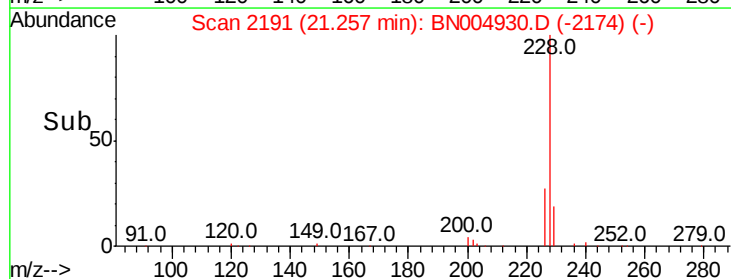
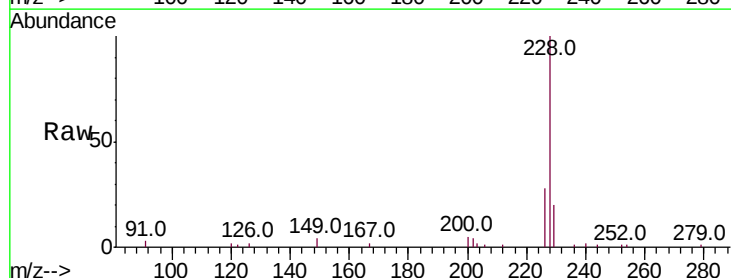
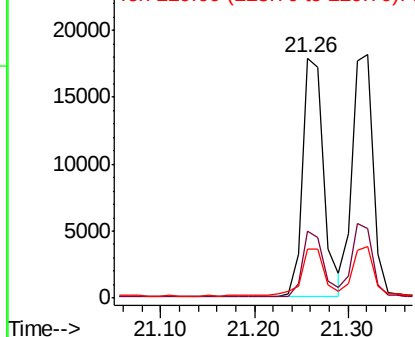
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.0  | 20.6  | 31.0  |
| 229     | 20.3  | 16.2  | 24.4  |

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: 0.591 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

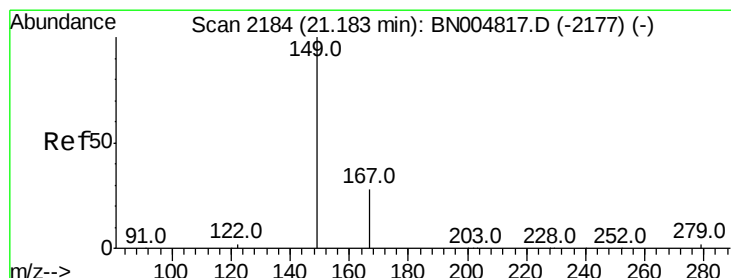
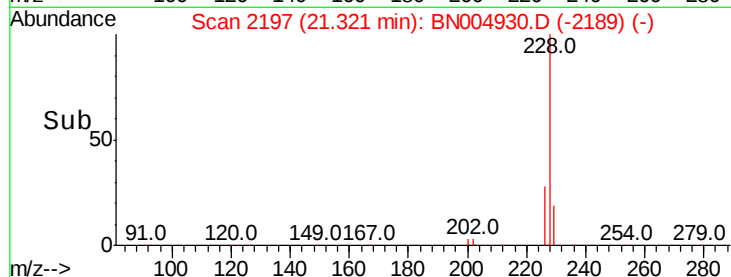
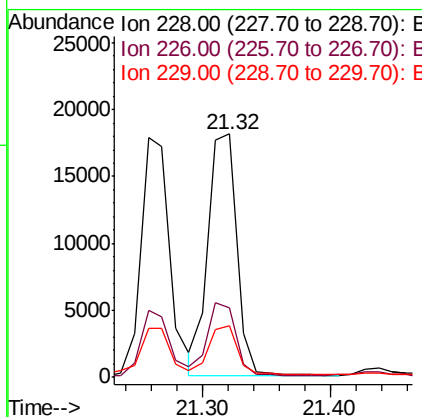
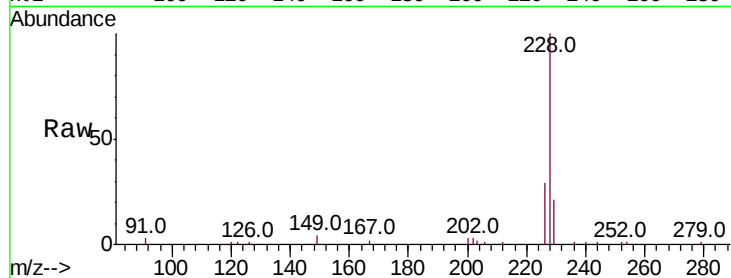
ClientSampleId :

PST-025-SW046-031319MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 28004 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.7  | 23.0  | 34.6  |
| 229       | 21.4  | 16.2  | 24.2  |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.758 ng

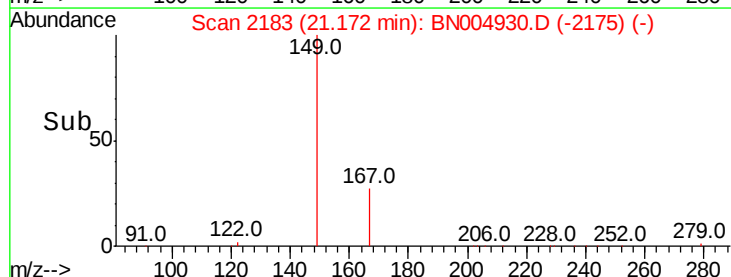
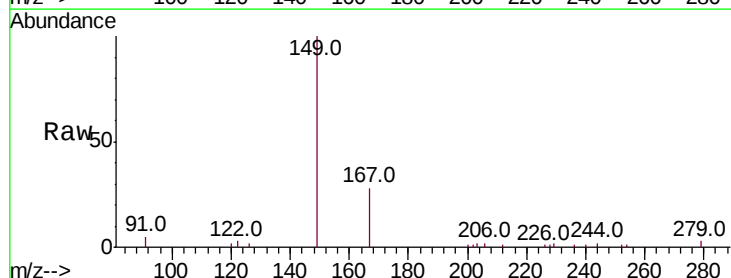
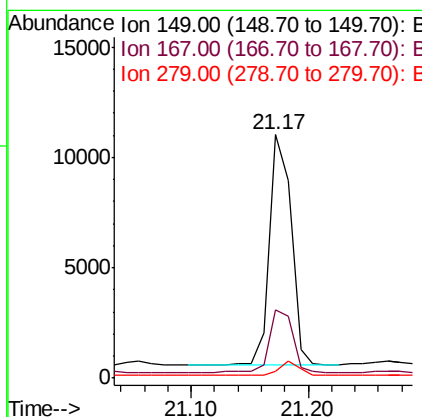
RT: 21.17 min Scan# 2183

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 13639 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 28.3  | 23.0  | 34.4  |
| 279       | 5.0   | 4.6   | 6.8   |





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.507 ng

RT: 25.79 min Scan# 3288

Delta R.T. -0.02 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

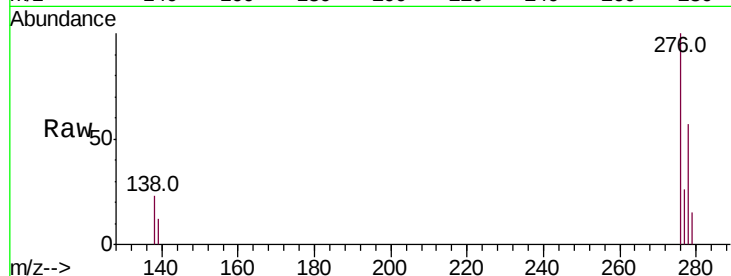
ClientSampleId :

PST-025-SW046-031319MSD

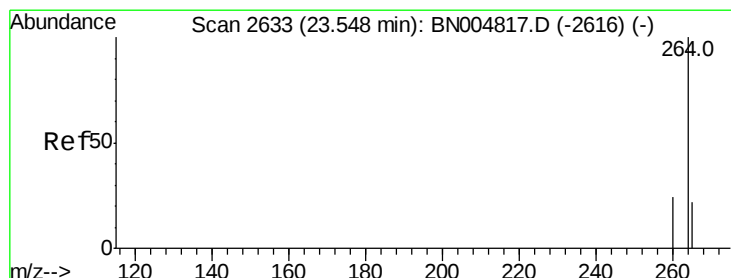
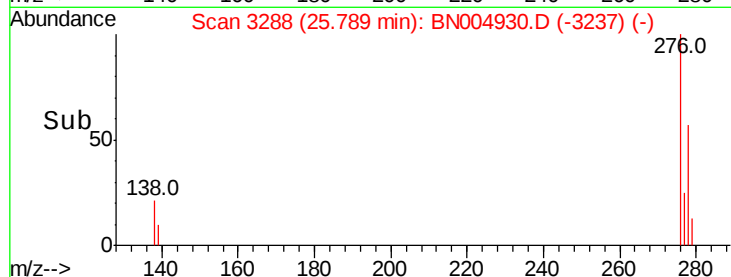
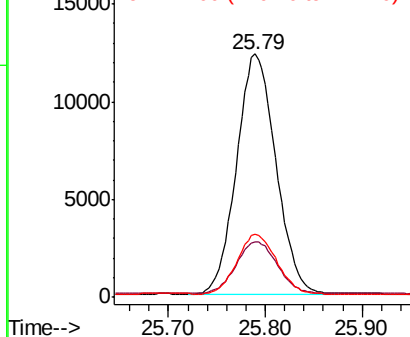
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 34761 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.7  | 16.6  | 24.8  |
| 277       | 25.0  | 20.3  | 30.5  |

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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

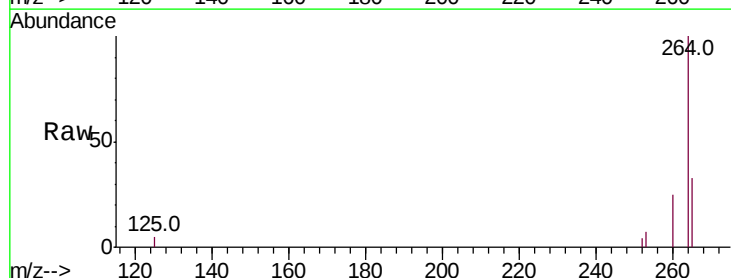
RT: 23.53 min Scan# 2627

Delta R.T. -0.02 min

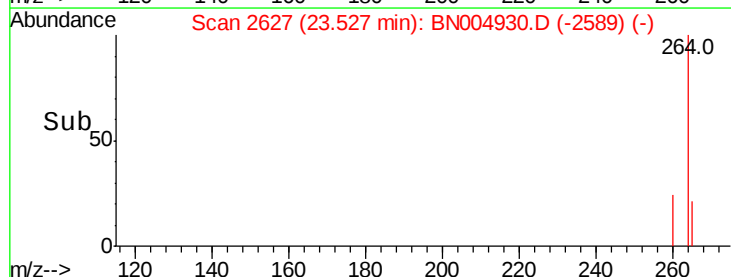
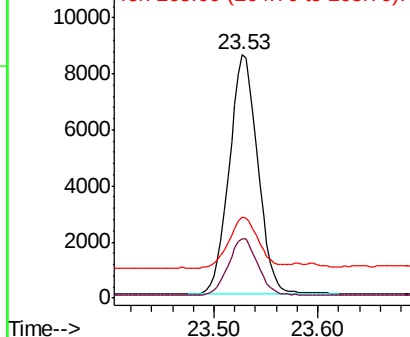
Lab File: BN004930.D

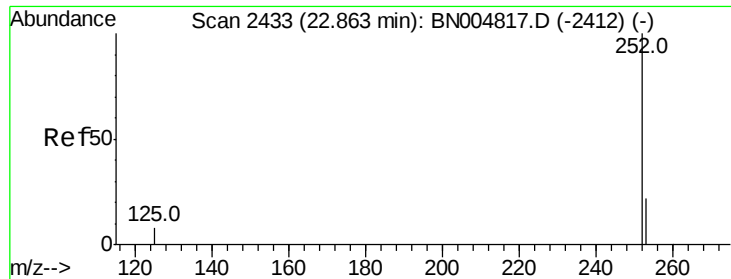
Acq: 23 Mar 2019 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 16434 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 24.6  | 19.5  | 29.3  |
| 265       | 33.3  | 23.1  | 34.7  |



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: 0.615 ng

RT: 22.85 min Scan# 2429

Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

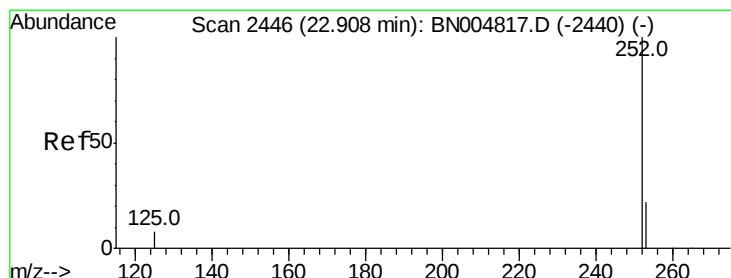
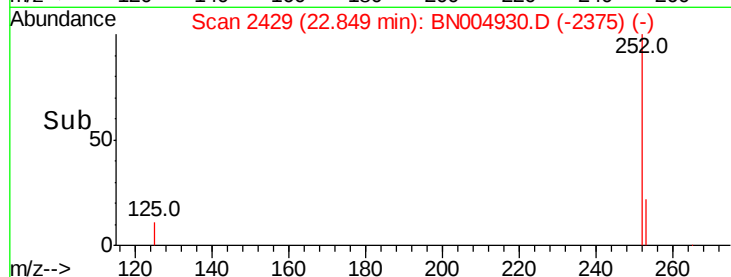
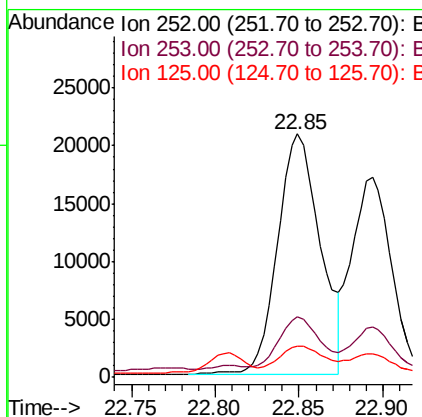
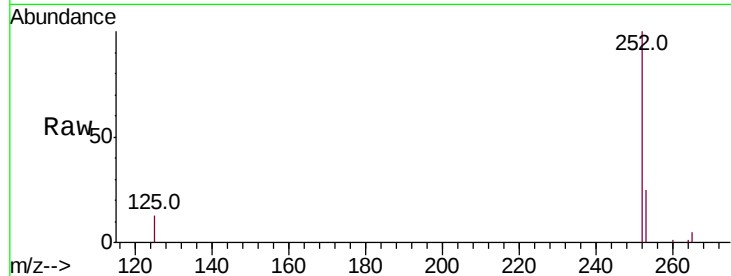
ClientSampleId :

PST-025-SW046-031319MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 19.0  | 28.4  |
| 125     | 12.8  | 7.4   | 11.2  |

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#36

Benzo(k)fluoranthene

Concen: 0.478 ng

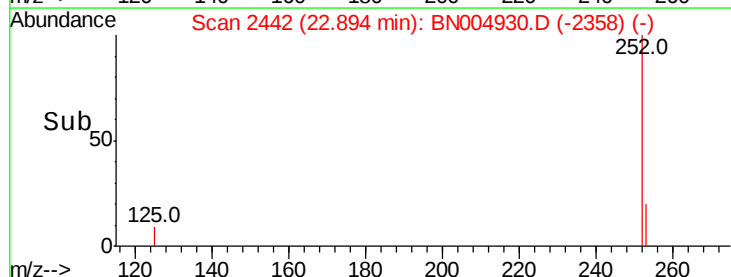
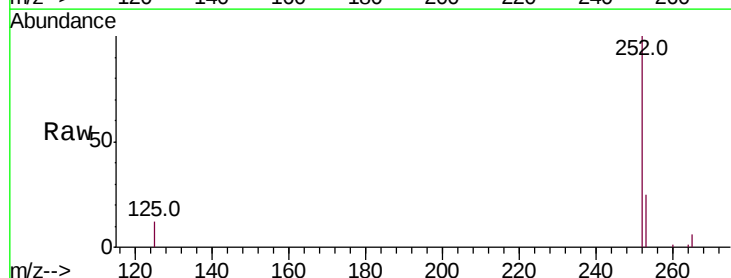
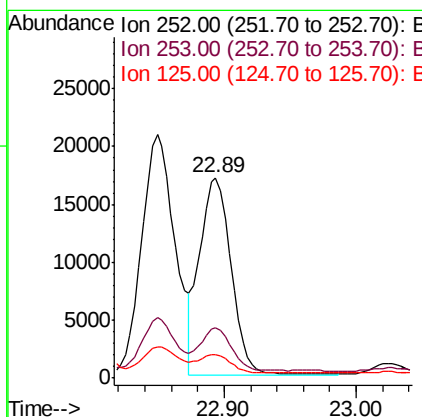
RT: 22.89 min Scan# 2442

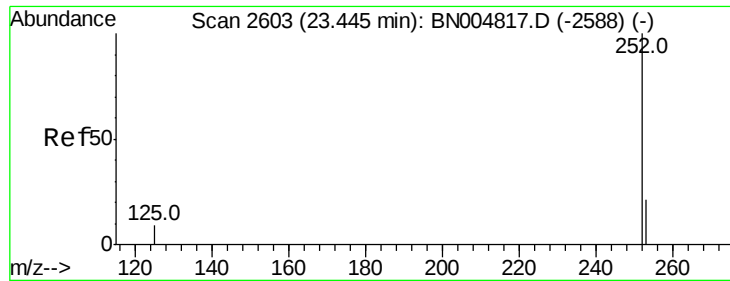
Delta R.T. -0.01 min

Lab File: BN004930.D

Acq: 23 Mar 2019 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 19.3  | 28.9  |
| 125     | 11.9  | 7.4   | 11.0  |





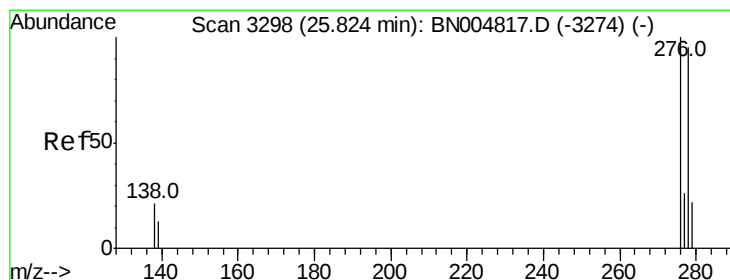
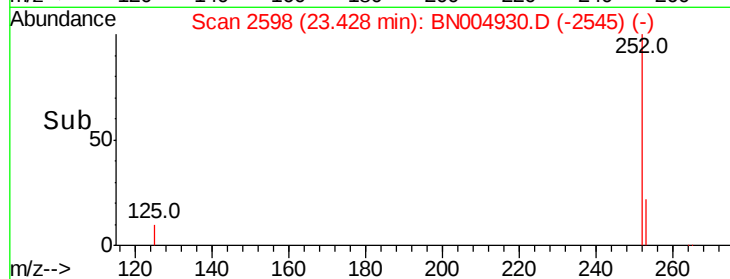
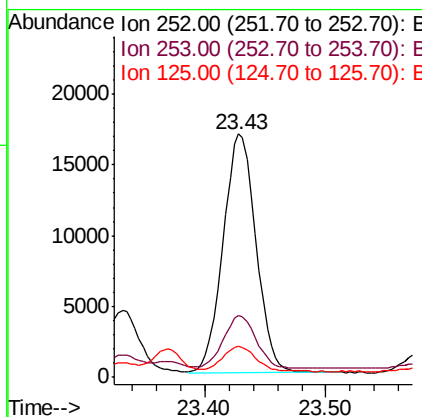
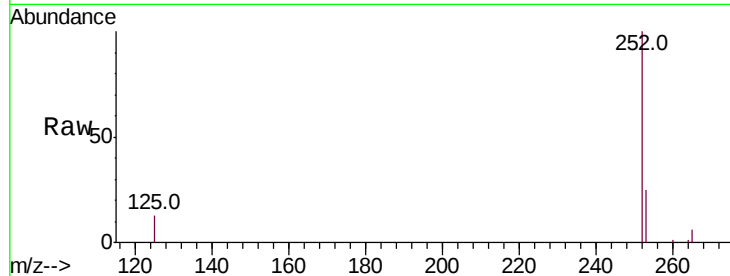
#37  
Benzo(a)pyrene  
Concen: 0.581 ng  
RT: 23.43 min Scan# 2598  
Delta R.T. -0.02 min  
Lab File: BN004930.D  
Acq: 23 Mar 2019 20:50

Instrument :  
BNA\_N  
ClientSampleId :  
PST-025-SW046-031319MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 19.7  | 29.5  |
| 125     | 12.6  | 8.3   | 12.5  |

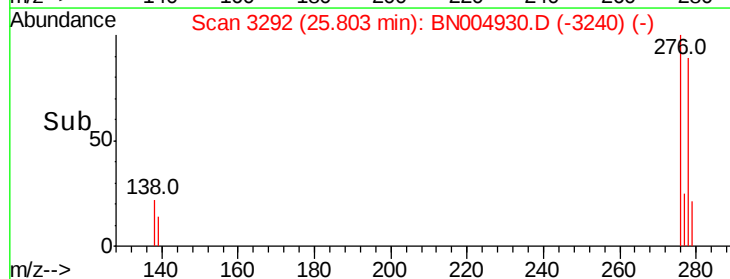
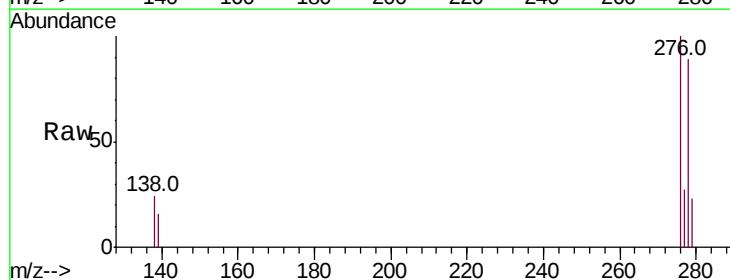
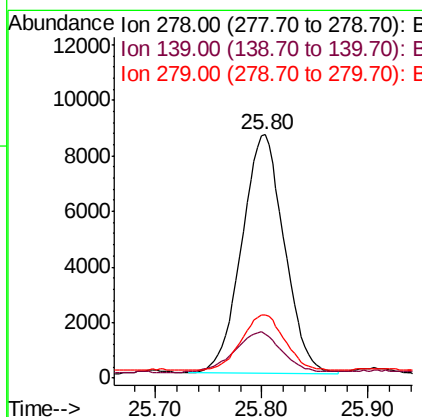
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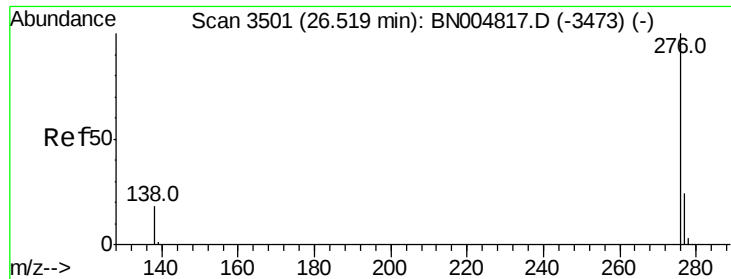
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.378 ng  
RT: 25.80 min Scan# 3292  
Delta R.T. -0.02 min  
Lab File: BN004930.D  
Acq: 23 Mar 2019 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.2  | 11.7  | 17.5  |
| 279     | 26.2  | 19.9  | 29.9  |





#39

Benzo(a,h,i)perylene

Concen: 0.482 ng

RT: 26.49 min Scan# 3493

Delta R.T. -0.03 min

Lab File: BN004930.D

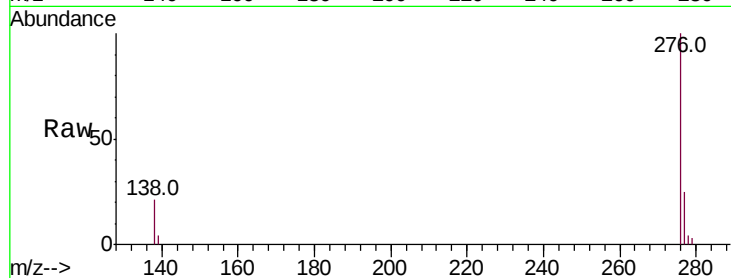
Acq: 23 Mar 2019 20:50

Instrument :

BNA\_N

ClientSampleId :

PST-025-SW046-031319MSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 30992 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.7  | 19.7  | 29.5  |
| 138       | 21.3  | 14.6  | 22.0  |

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