

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN090819\  
 Data File : BN007569.D  
 Acq On : 09 Sep 2019 02:25  
 Operator : HP/JU  
 Sample : K4762-01MS  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 STOCK-PILEMS

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 8:53:28 AM

Quant Time: Sep 09 05:34:07 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Aug 29 12:18:45 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 7304     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.15 | 136  | 43197    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.05 | 164  | 31882    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.79 | 188  | 30423    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.00 | 240  | 26925    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.11 | 264  | 31489    | 0.40 | ng    | -0.02    |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.03  | 112 | 9756  | 0.38 | ng | 0.00  |
| 5) Phenol-d6                | 6.59  | 99  | 13379 | 0.42 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.52  | 82  | 16406 | 0.44 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.76 | 152 | 26919 | 0.38 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330 | 3289  | 0.20 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.65 | 172 | 20708 | 0.16 | ng | 0.00  |
| 25) Fluoranthene-d10        | 18.84 | 212 | 30289 | 0.31 | ng | -0.01 |
| 29) Terphenyl-d14           | 19.46 | 244 | 27665 | 0.39 | ng | -0.01 |

#### Target Compounds

|                                |       |     |         |       |    | Qvalue |
|--------------------------------|-------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.00  | 88  | 2723    | 0.224 | ng | # 76   |
| 3) n-Nitrosodimethylamine      | 3.31  | 42  | 1318    | 0.234 | ng | # 41   |
| 6) bis(2-Chloroethyl)ether     | 6.83  | 93  | 10596   | 0.402 | ng | # 88   |
| 9) Naphthalene                 | 10.19 | 128 | 40591   | 0.329 | ng | # 93   |
| 10) Hexachlorobutadiene        | 10.49 | 225 | 4793    | 0.190 | ng | # 98   |
| 12) 2-Methylnaphthalene        | 11.83 | 142 | 27450   | 0.326 | ng | # 68   |
| 16) Acenaphthylene             | 13.79 | 152 | 155119  | 0.822 | ng | # 52   |
| 17) Acenaphthene               | 14.10 | 154 | 38845   | 0.352 | ng | # 73   |
| 18) Fluorene                   | 15.10 | 166 | 43039   | 0.308 | ng | # 97   |
| 20) 4-Bromophenyl-phenylether  | 16.01 | 248 | 15068   | 1.256 | ng | # 1    |
| 21) Hexachlorobenzene          | 16.11 | 284 | 7264    | 0.356 | ng | # 53   |
| 22) Pentachlorophenol          | 16.45 | 266 | 6216    | 0.981 | ng | # 47   |
| 23) Phenanthrene               | 16.84 | 178 | 267147  | 2.919 | ng | # 87   |
| 24) Anthracene                 | 16.92 | 178 | 89208   | 0.969 | ng | # 92   |
| 26) Fluoranthene               | 18.87 | 202 | 597002  | 5.081 | ng | # 98   |
| 28) Pyrene                     | 19.23 | 202 | 652923  | 6.028 | ng | # 95   |
| 30) Benzo(a)anthracene         | 20.99 | 228 | 368959  | 3.489 | ng | # 93   |
| 31) Chrysene                   | 21.05 | 228 | 343872m | 3.369 | ng |        |
| 32) Bis(2-ethylhexyl)phthalate | 20.95 | 149 | 107568  | 1.553 | ng | # 94   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.18 | 276 | 261291  | 2.125 | ng | # 99   |
| 35) Benzo(b)fluoranthene       | 22.50 | 252 | 485287  | 4.253 | ng | # 89   |
| 36) Benzo(k)fluoranthene       | 22.53 | 252 | 172555m | 1.530 | ng |        |
| 37) Benzo(a)pyrene             | 23.02 | 252 | 364555  | 3.358 | ng | # 91   |
| 38) Dibenzo(a,h)anthracene     | 25.19 | 278 | 88287   | 0.815 | ng | # 52   |
| 39) Benzo(g,h,i)perylene       | 25.80 | 276 | 299376  | 2.774 | ng | # 92   |

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

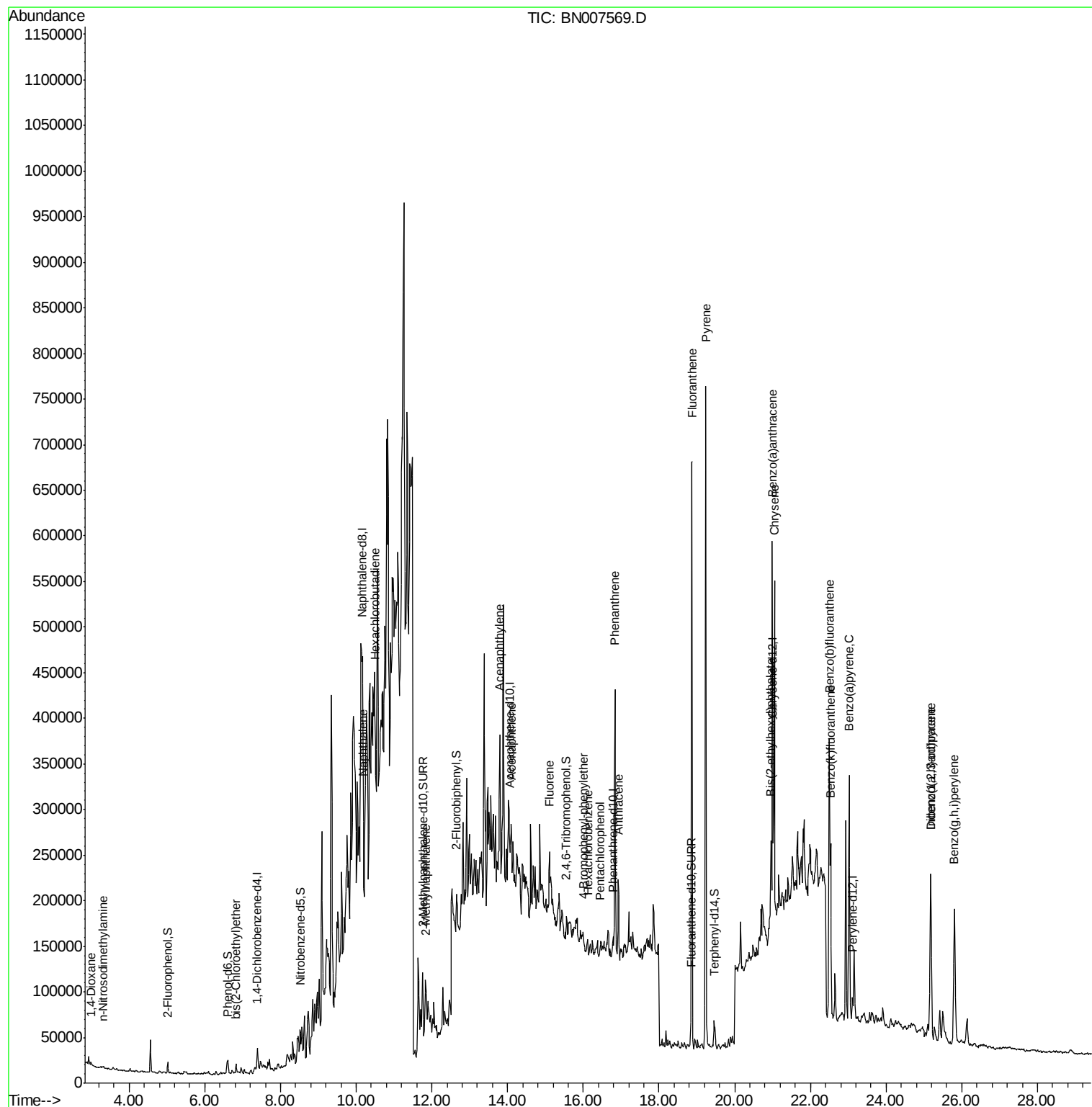
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN090819\  
Data File : BN007569.D  
Acq On : 09 Sep 2019 02:25  
Operator : HP/JU  
Sample : K4762-01MS  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_N  
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STOCK-PILEMS

Quant Time: Sep 09 05:34:07 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 29 12:18:45 2019  
Response via : Initial Calibration

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#1

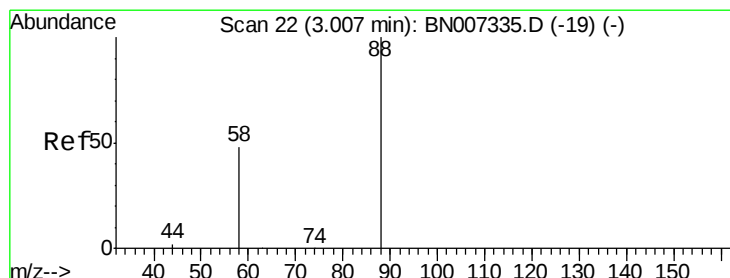
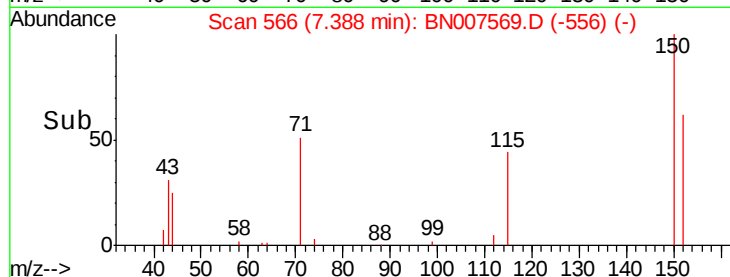
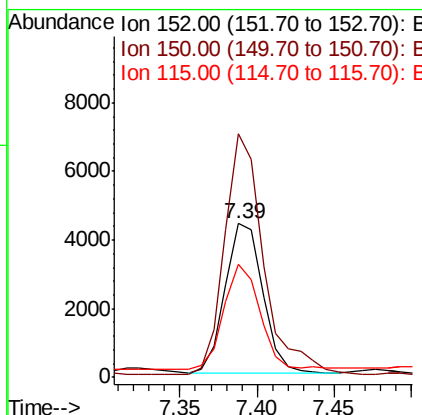
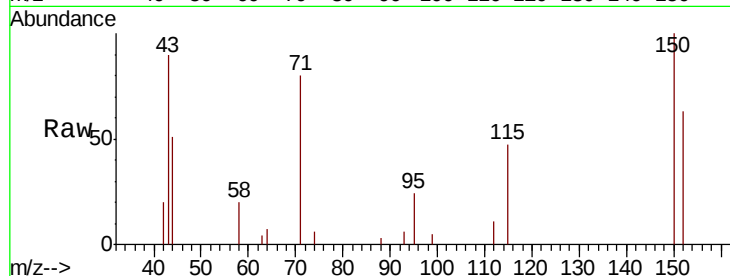
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.39 min Scan# 566  
 Delta R.T. -0.02 min  
 Lab File: BN007569.D  
 Acq: 09 Sep 2019 02:25

Instrument :  
 BNA\_N  
 ClientSampleId :  
 STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.4 | 109.1 | 163.7 |
| 115     | 73.7  | 59.6  | 89.4  |

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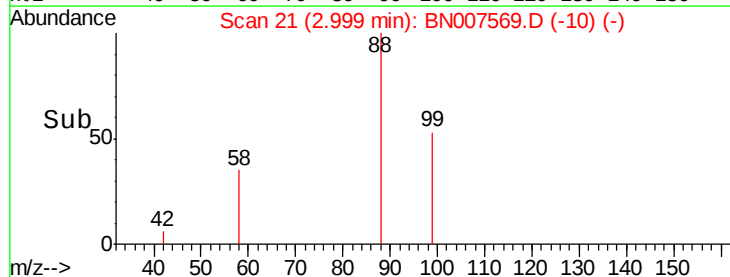
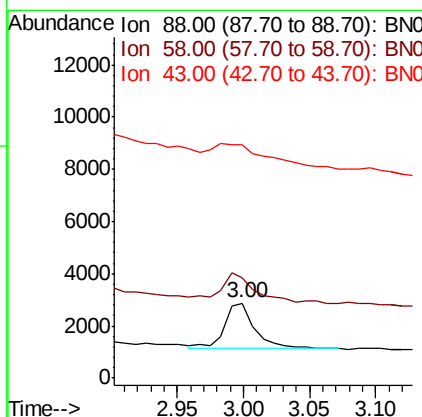
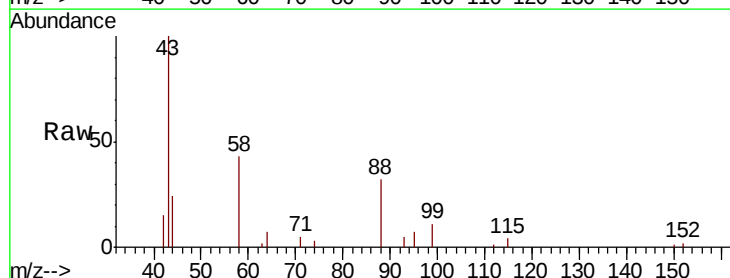
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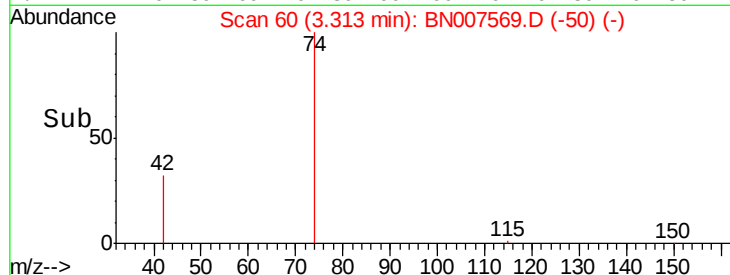
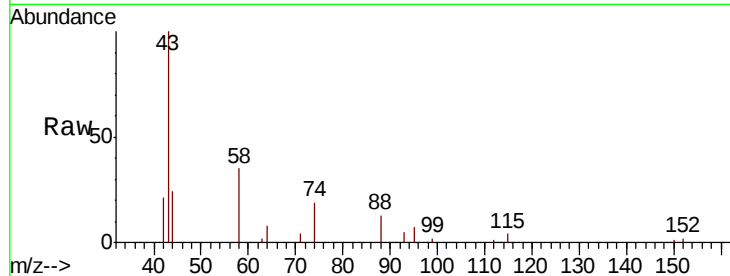


#2

1,4-Dioxane  
 Concen: 0.224 ng  
 RT: 3.00 min Scan# 21  
 Delta R.T. -0.01 min  
 Lab File: BN007569.D  
 Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 81.7  | 50.5  | 75.7# |
| 43      | 105.0 | 0.0   | 0.0#  |





#3

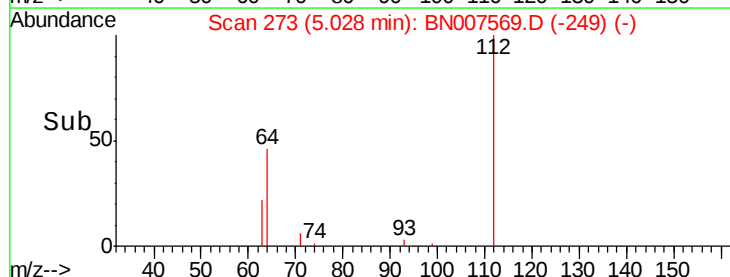
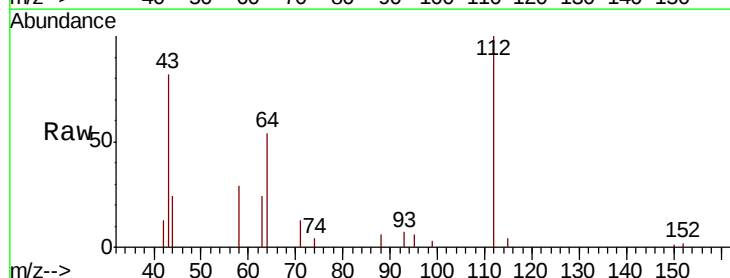
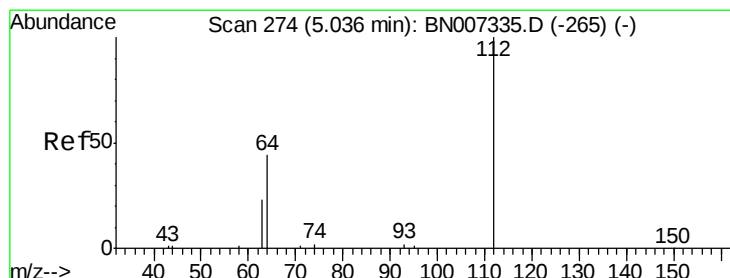
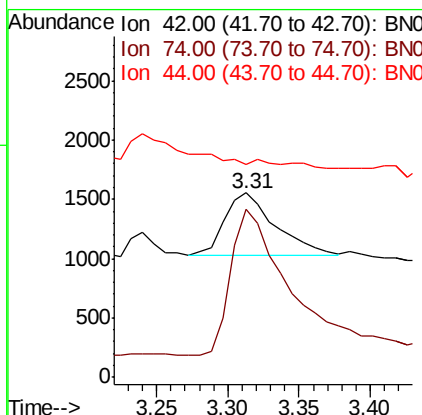
n-Nitrosodimethylamine  
Concen: 0.234 ng  
RT: 3.31 min Scan# 60  
Delta R.T. -0.02 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

Instrument :  
BNA\_N  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 265.9 | 144.7 | 217.1# |
| 44      | 0.0   | 3.2   | 4.8#   |

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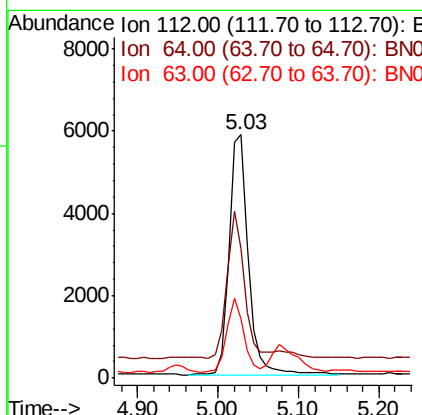
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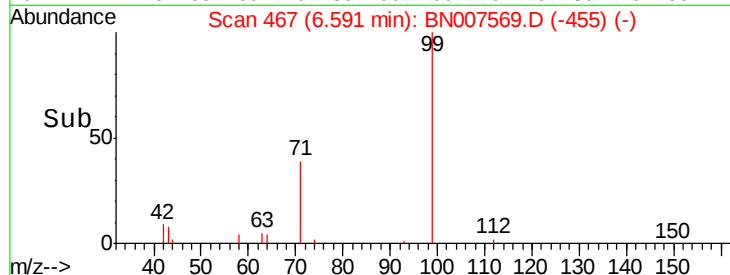
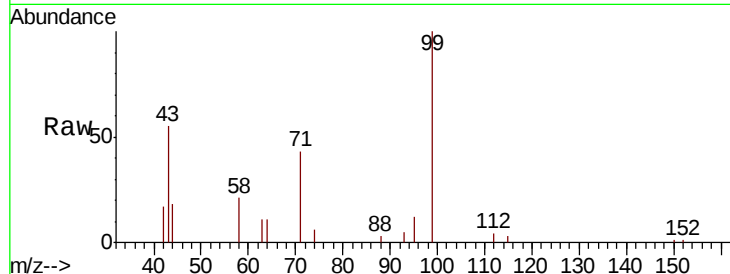


#4

2-Fluorophenol  
Concen: 0.384 ng  
RT: 5.03 min Scan# 273  
Delta R.T. -0.01 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.7  | 42.3  | 63.5  |
| 63      | 27.0  | 23.6  | 35.4  |





#5

Phenol-d6

Concen: 0.416 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 13379 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.5  | 11.2  | 16.8  |
| 71       | 45.3  | 31.8  | 47.8  |

Instrument :

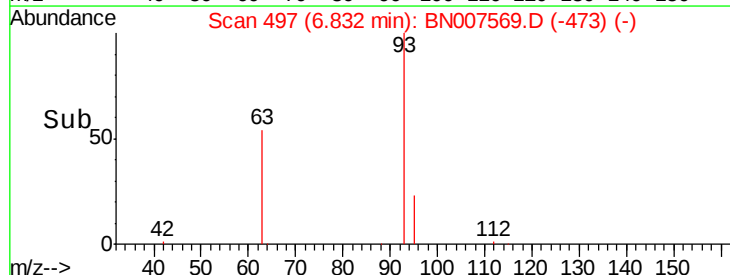
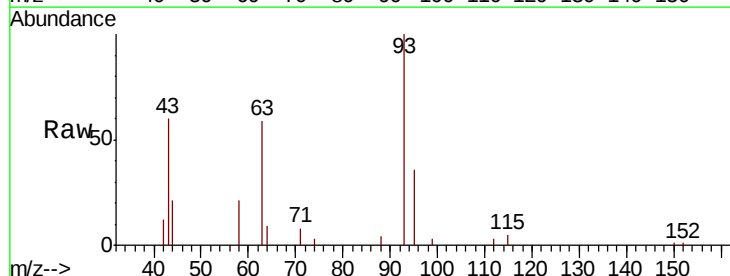
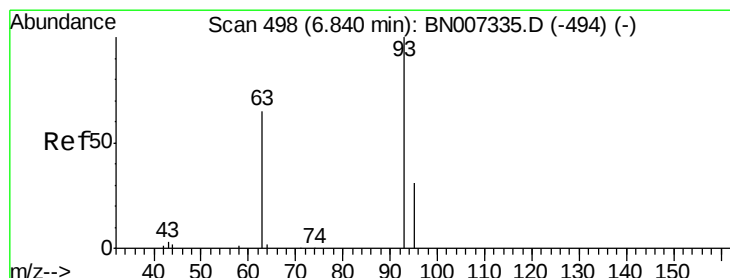
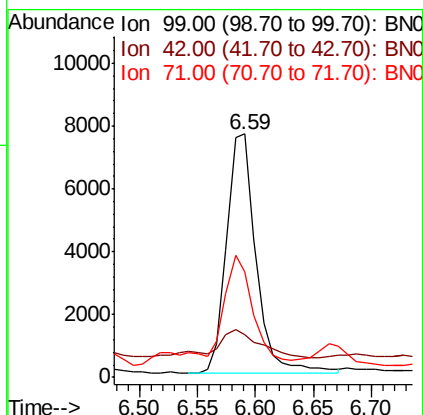
BNA\_N

ClientSampleId :

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#6

bis(2-Chloroethyl)ether

Concen: 0.402 ng

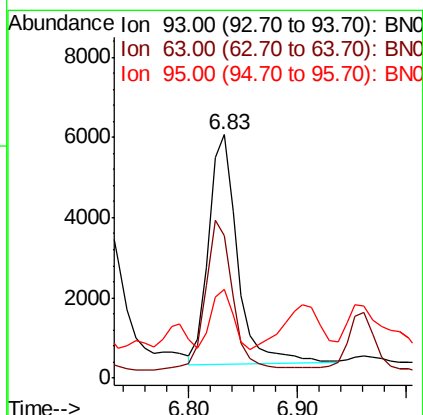
RT: 6.83 min Scan# 497

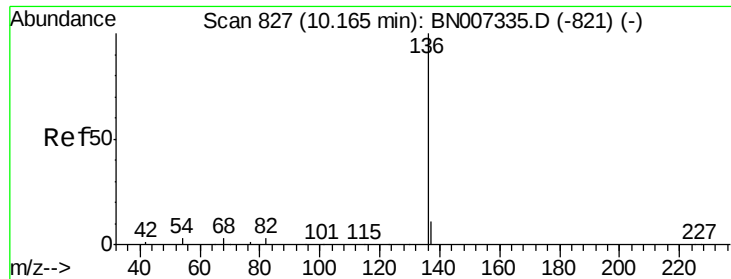
Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 10596 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 61.6  | 51.9  | 77.9  |
| 95       | 19.2  | 27.7  | 41.5# |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

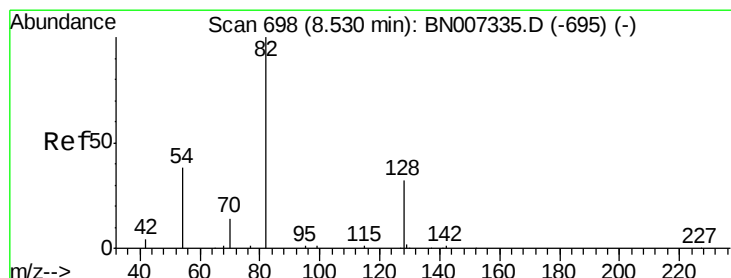
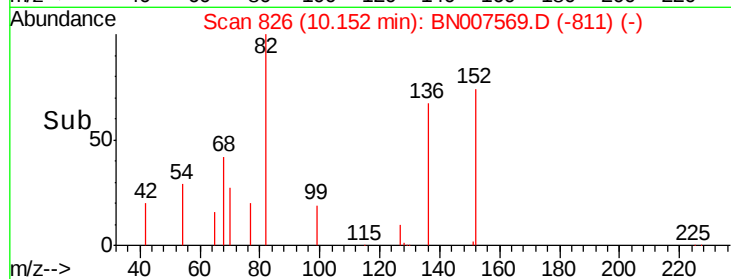
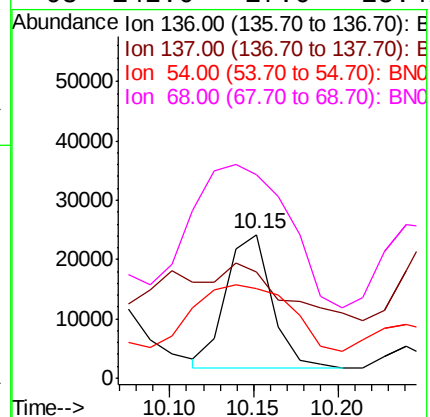
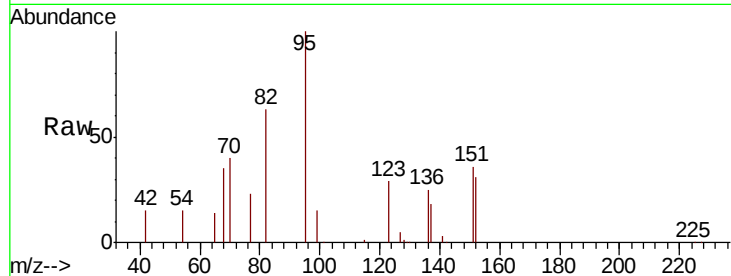
ClientSampled :

STOCK-PILEMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 136   | Resp: | 43197 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 73.9  | 12.9  | 19.3# |
| 54        | 62.8  | 8.6   | 12.8# |
| 68        | 142.0 | 17.0  | 25.4# |

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#8

Nitrobenzene-d5

Concen: 0.436 ng

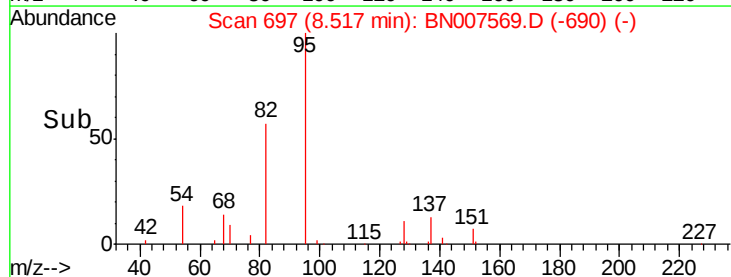
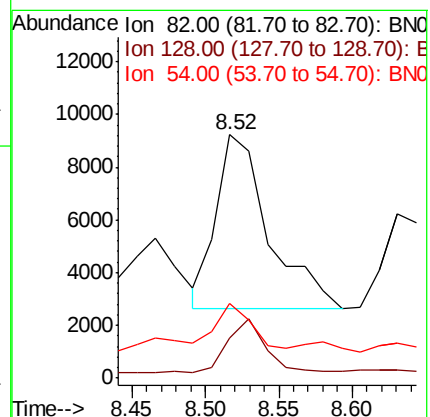
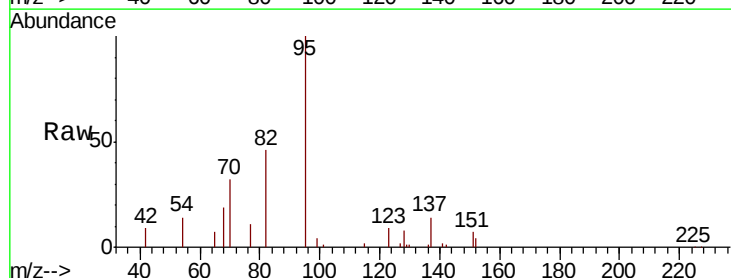
RT: 8.52 min Scan# 697

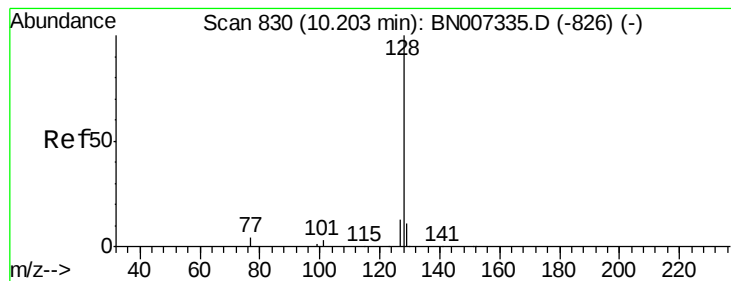
Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 16406 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 16.5  | 19.7  | 29.5# |
| 54        | 30.5  | 25.8  | 38.6  |





#9

Naphthalene

Concen: 0.329 ng

RT: 10.19 min Scan# 829

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

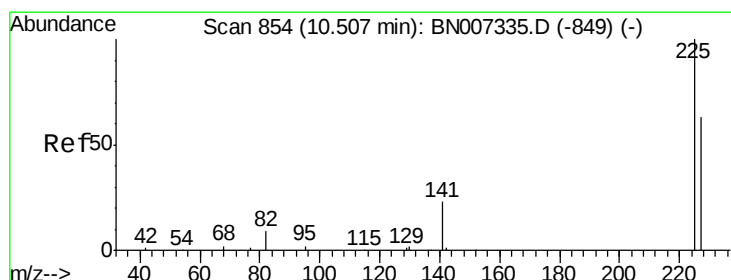
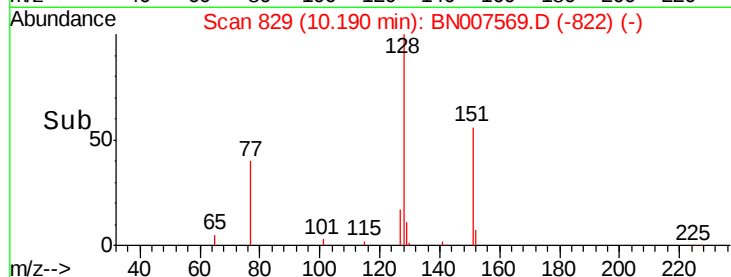
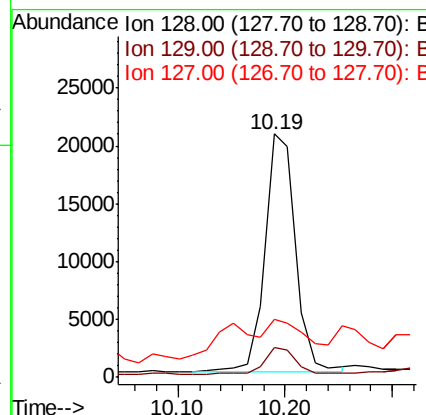
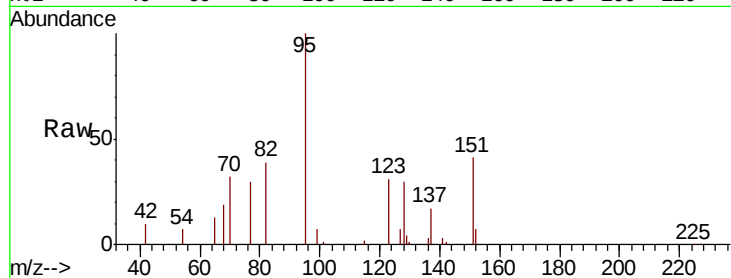
ClientSampleId :

STOCK-PILEMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 40591 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 12.1  | 11.1  | 16.7  |
| 127       | 23.7  | 15.5  | 23.3# |

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#10

Hexachlorobutadiene

Concen: 0.190 ng

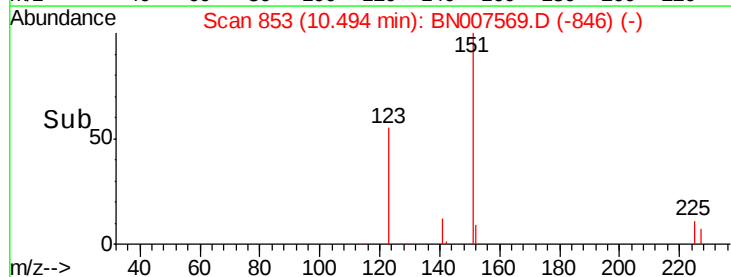
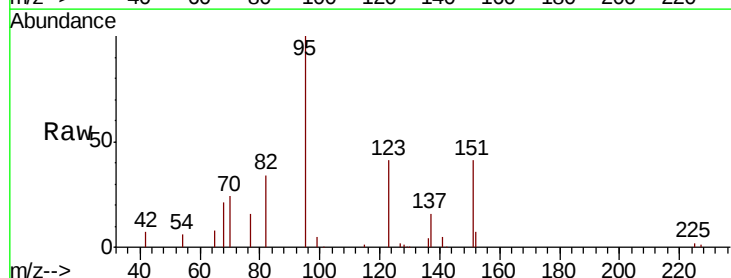
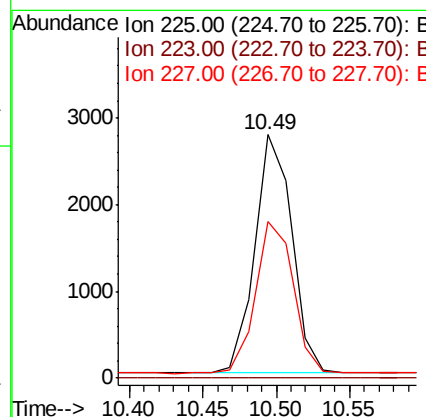
RT: 10.49 min Scan# 853

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 4793 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 65.1  | 50.7  | 76.1 |





#11

2-Methylnaphthalene-d10

Concen: 0.375 ng

RT: 11.76 min Scan# 989

Delta R.T. -0.00 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

ClientSampleId :

STOCK-PILEMS

Tot Ion:152 Resp: 26919

Ion Ratio Lower Upper

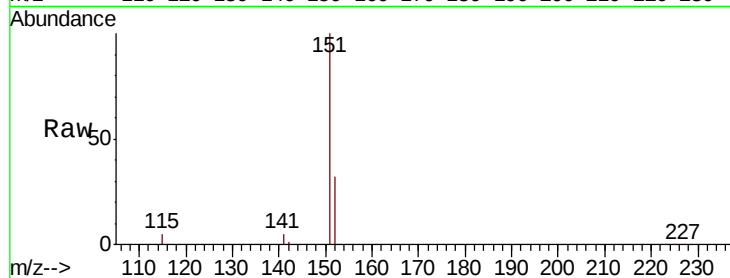
152 100

151 397.3 16.2 24.2#

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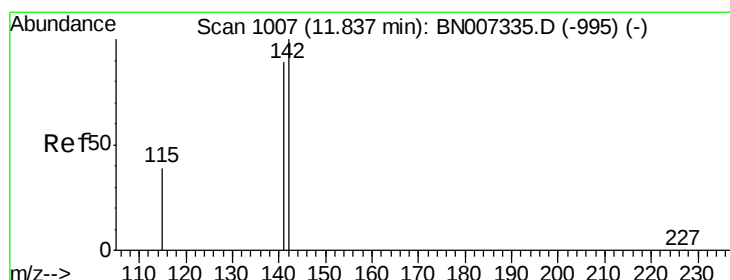
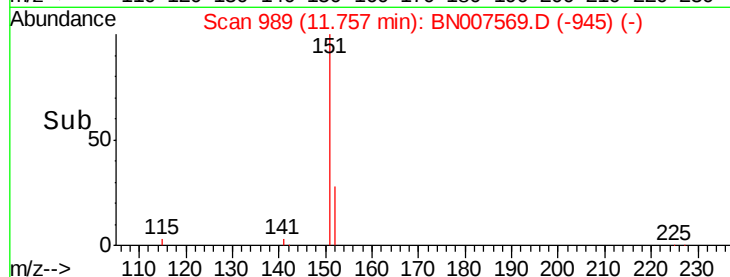
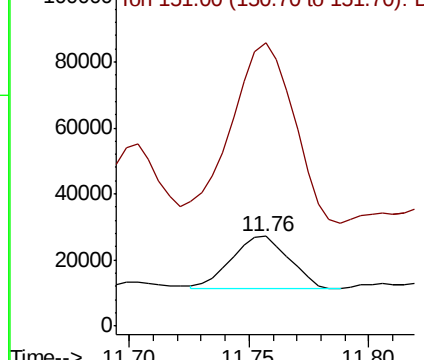
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.326 ng

RT: 11.83 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

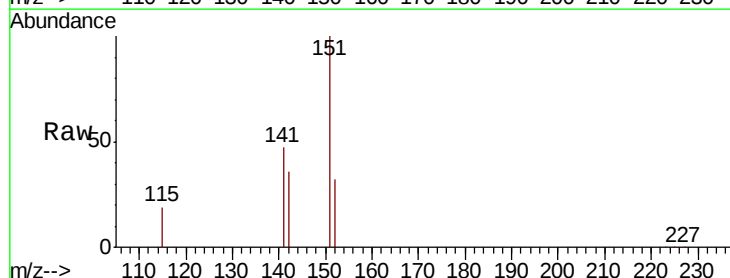
Tgt Ion:142 Resp: 27450

Ion Ratio Lower Upper

142 100

141 129.1 72.8 109.2#

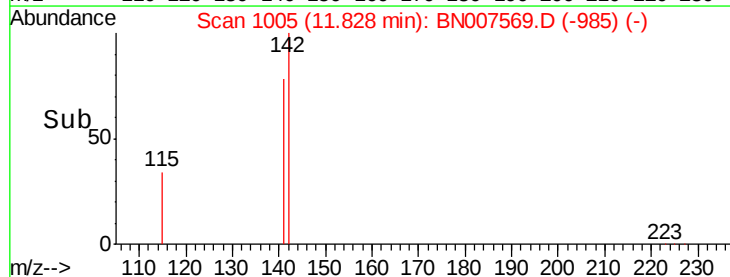
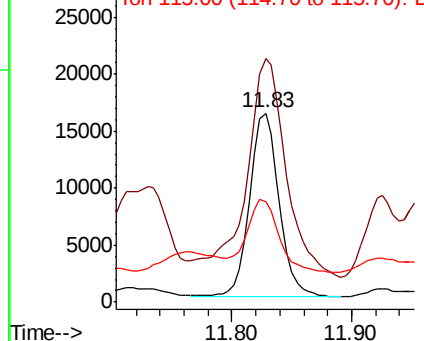
115 53.2 35.2 52.8#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

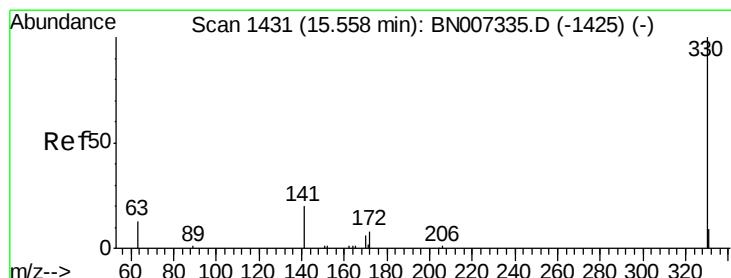
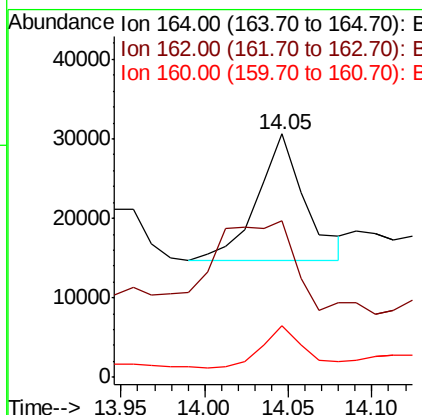
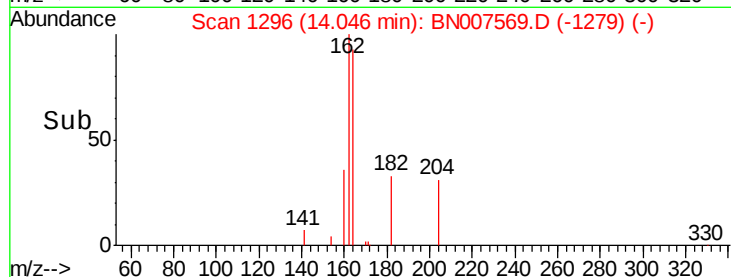
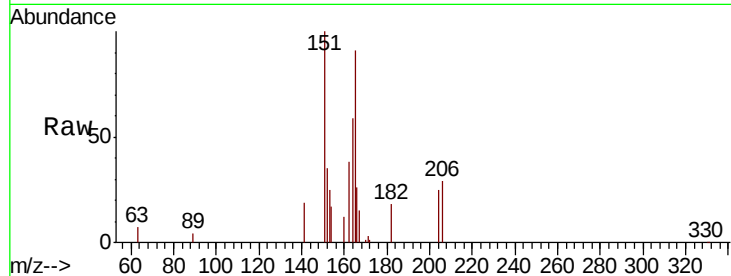
ClientSampled :

STOCK-PILEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 31882  |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 64.1  | 83.5  | 125.3# |
| 160       | 20.9  | 38.2  | 57.4#  |

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#14

2,4,6-Tribromophenol

Concen: 0.197 ng

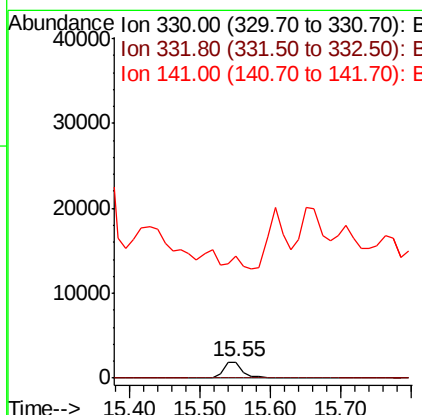
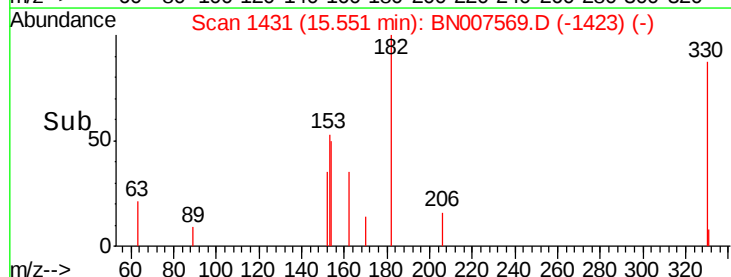
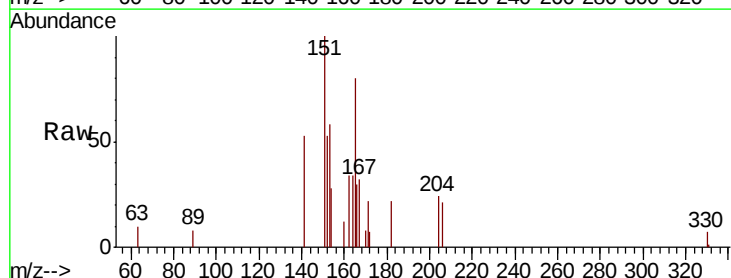
RT: 15.55 min Scan# 1431

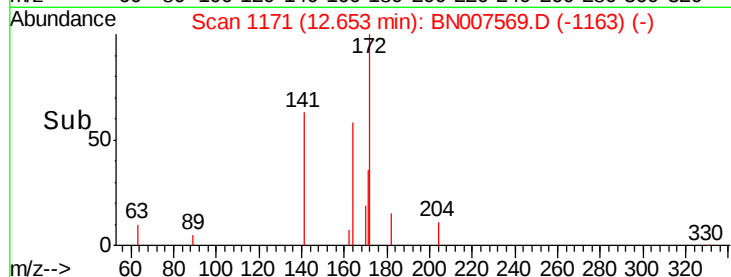
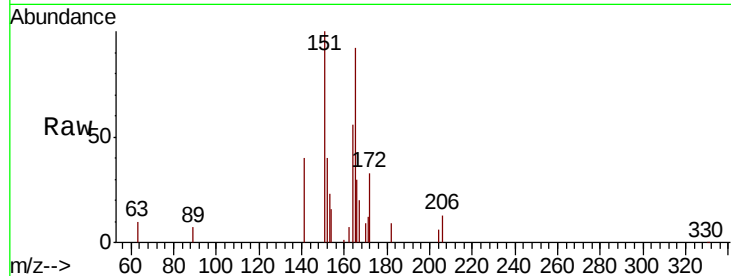
Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 3289  |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 0.0   | 0.0   | 0.0   |
| 141       | 0.0   | 26.9  | 40.3# |





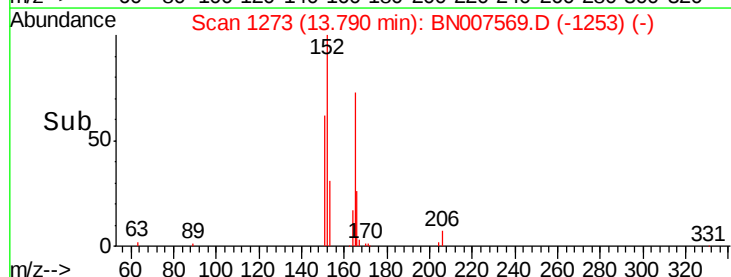
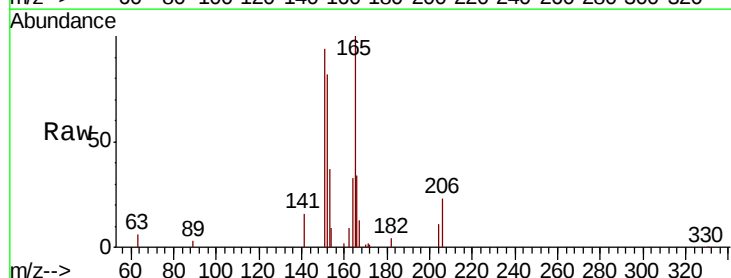
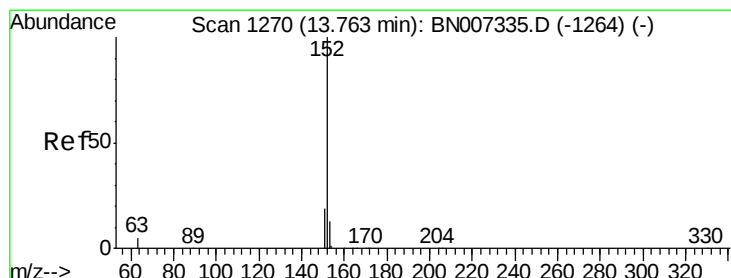
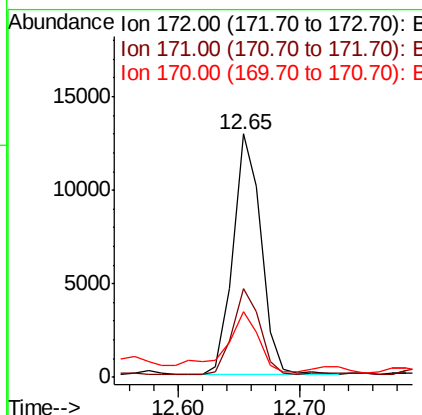
#15  
2-Fluorobiphenyl  
Concen: 0.161 ng  
RT: 12.65 min Scan# 1171  
Delta R.T. -0.01 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

Instrument :  
BNA\_N  
ClientSampleId :  
STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 30.3  | 45.5  |
| 170     | 27.0  | 20.7  | 31.1  |

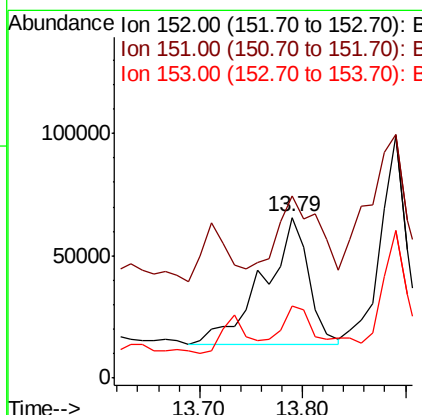
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#16  
Acenaphthylene  
Concen: 0.822 ng  
RT: 13.79 min Scan# 1273  
Delta R.T. 0.03 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 50.6  | 16.1  | 24.1# |
| 153     | 21.1  | 10.6  | 15.8# |





#17

Acenaphthene

Concen: 0.352 ng

RT: 14.10 min Scan# 1301

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

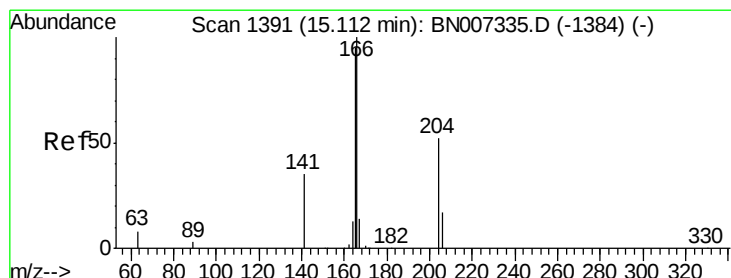
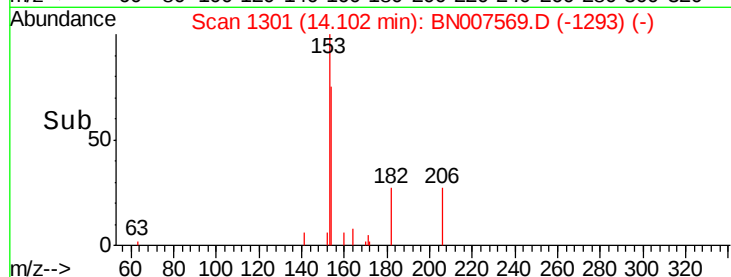
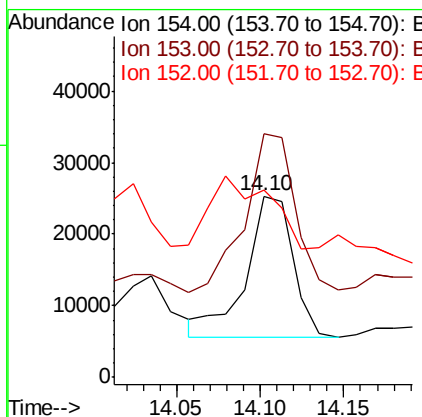
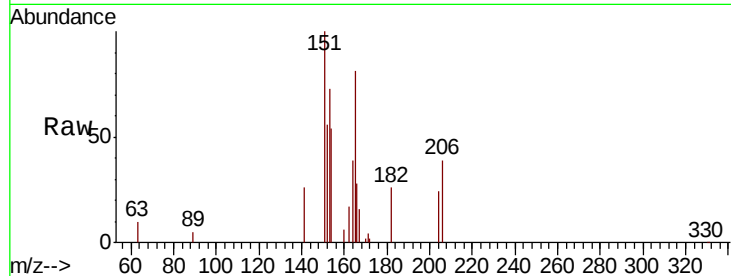
ClientSampleId :

STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 120.6 | 92.8  | 139.2 |
| 152     | 0.0   | 43.8  | 65.8  |

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#18

Fluorene

Concen: 0.308 ng

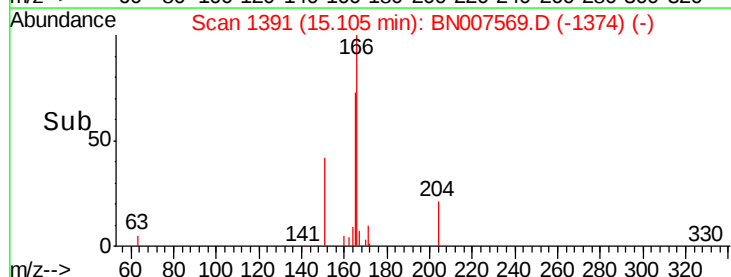
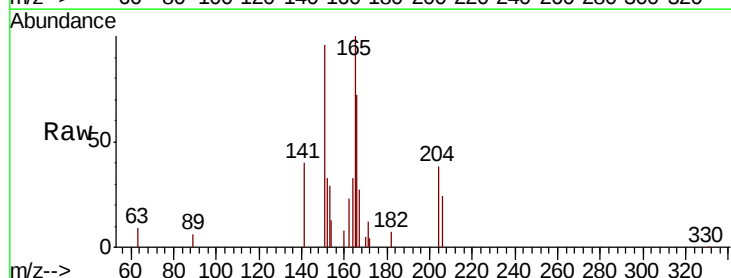
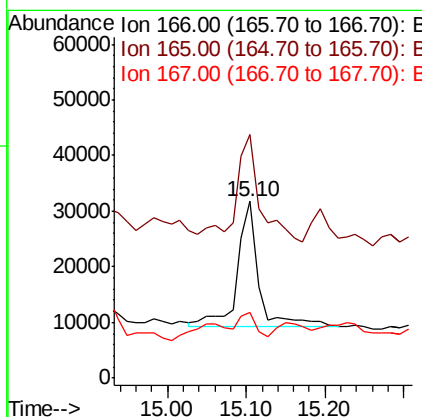
RT: 15.10 min Scan# 1391

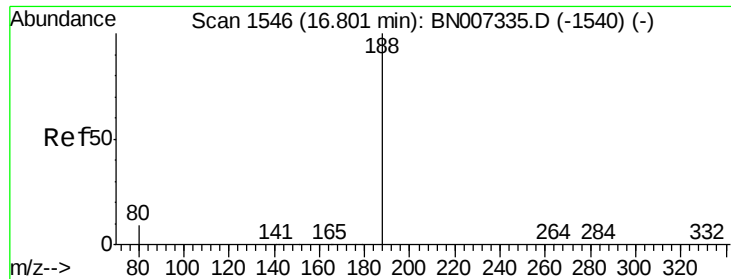
Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 95.9  | 79.0  | 118.4 |
| 167     | 15.1  | 10.6  | 15.8  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.79 min Scan# 1546

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

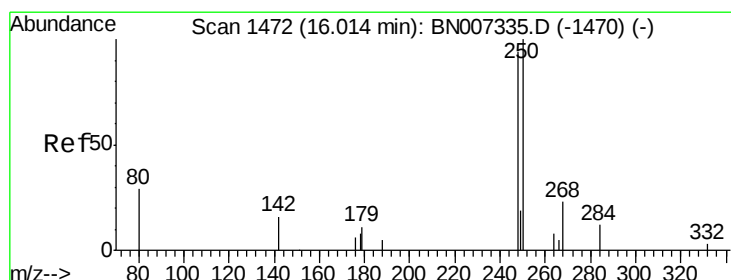
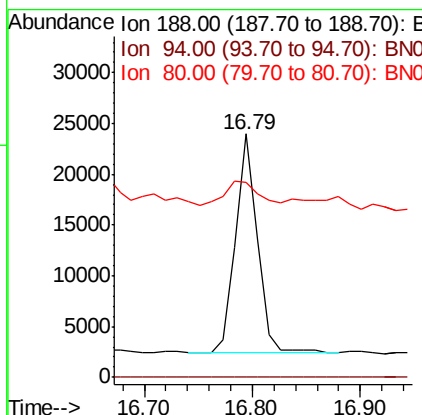
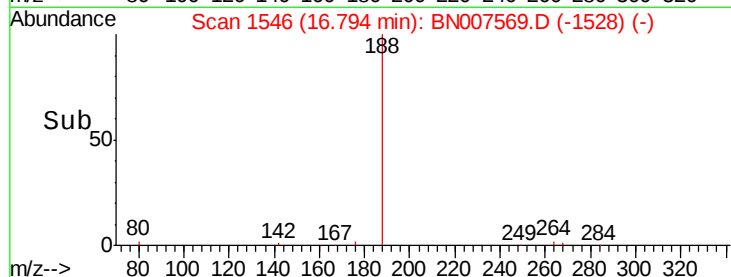
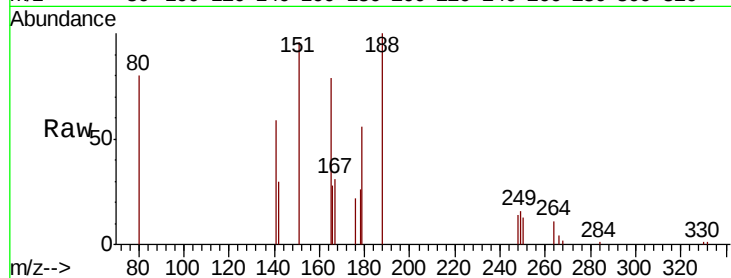
ClientSampleId :

STOCK-PILEMS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 0.0   | 0.0  | 0.0   |       |
| 80      | 80.2  | 11.8 | 17.8  |       |

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#20

4-Bromophenyl-phenylether

Concen: 1.256 ng

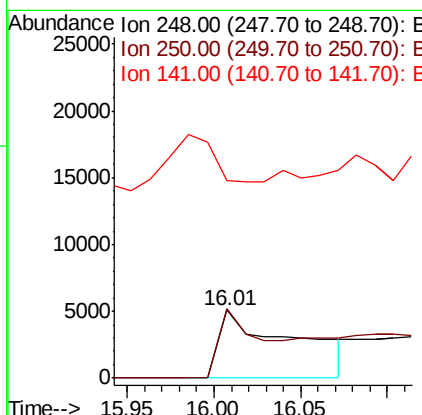
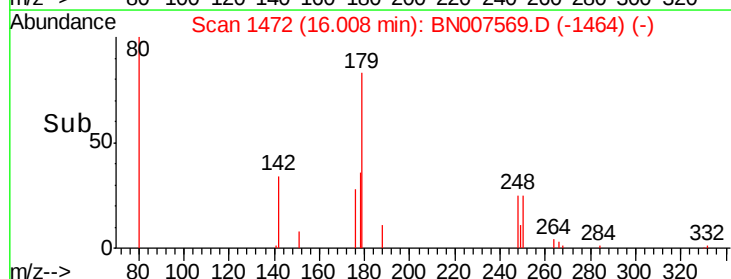
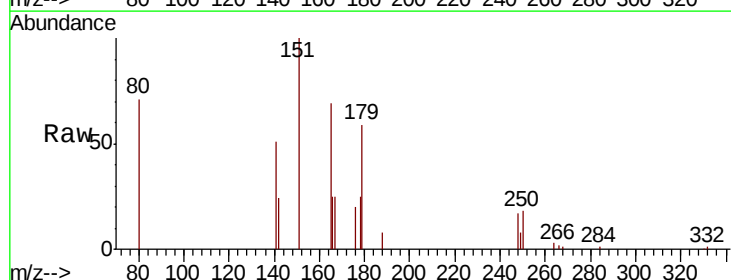
RT: 16.01 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 248     | 100   |      |       |       |
| 250     | 103.1 | 85.0 | 127.6 |       |
| 141     | 292.1 | 51.7 | 77.5  |       |





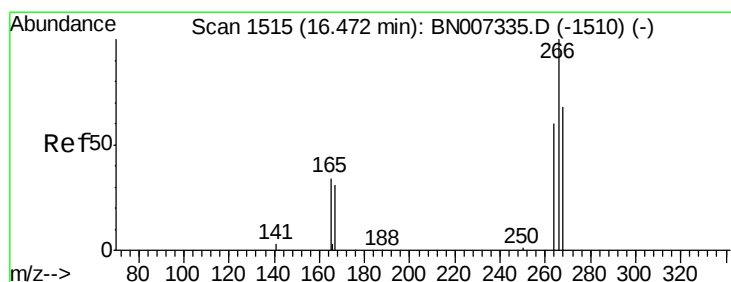
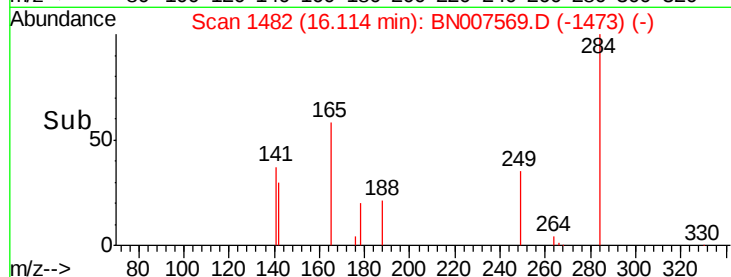
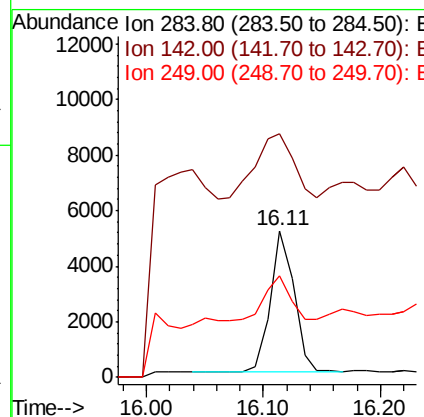
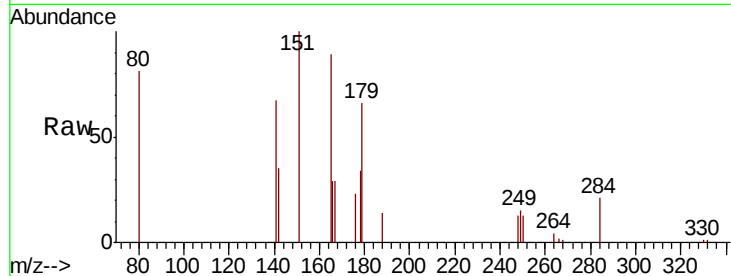
#21  
Hexachlorobenzene  
Concen: 0.356 ng  
RT: 16.11 min Scan# 1482  
Delta R.T. -0.01 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

Instrument :  
BNA\_N  
ClientSampleId :  
STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 72.9  | 29.0  | 43.6# |
| 249     | 47.5  | 24.9  | 37.3# |

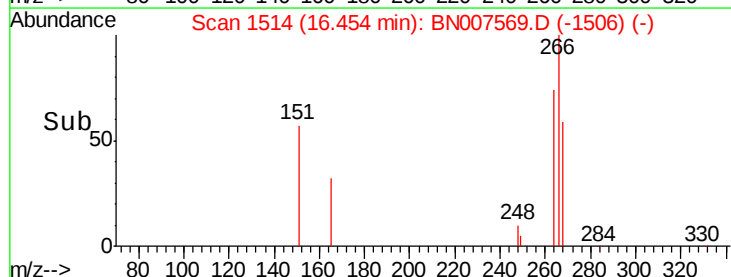
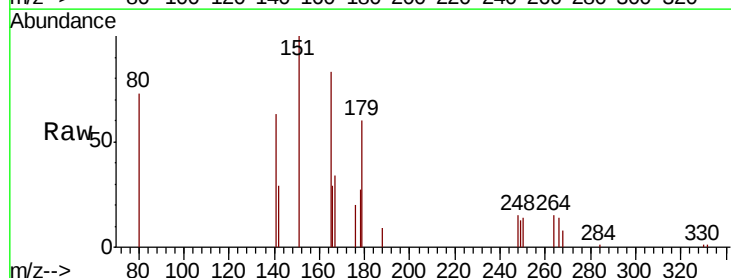
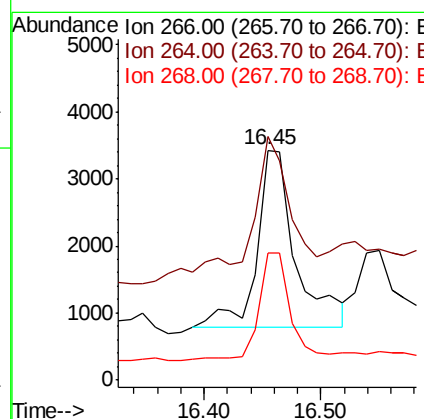
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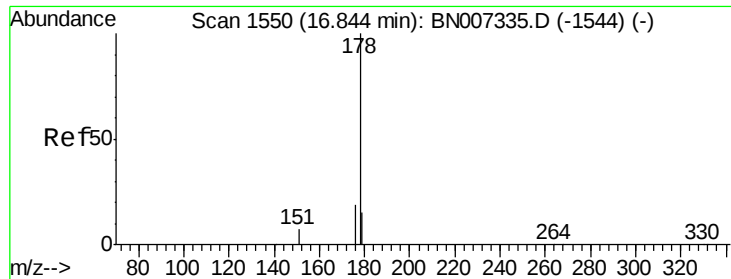
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#22  
Pentachlorophenol  
Concen: 0.981 ng  
RT: 16.45 min Scan# 1514  
Delta R.T. -0.02 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 266     | 100   |       |        |
| 264     | 106.0 | 57.8  | 86.8#  |
| 268     | 55.4  | 99.7  | 149.5# |





#23

Phenanthrene

Concen: 2.919 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

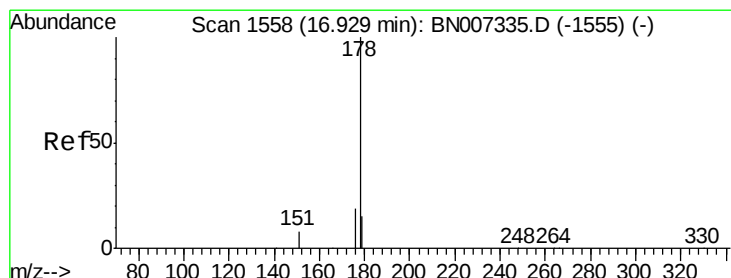
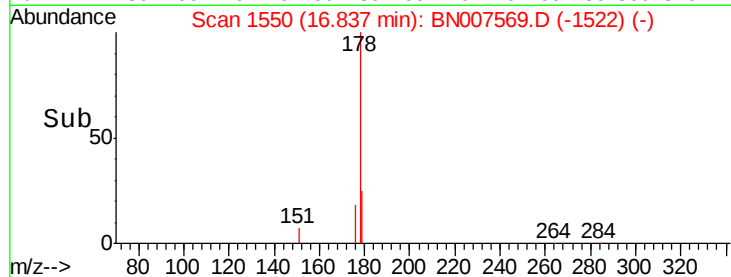
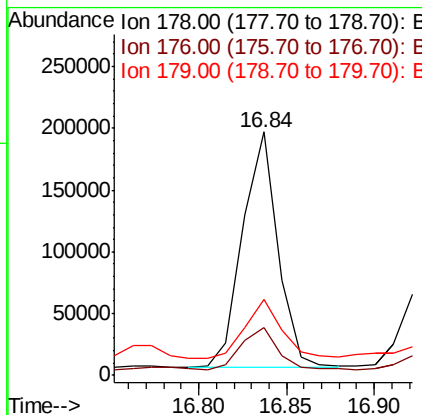
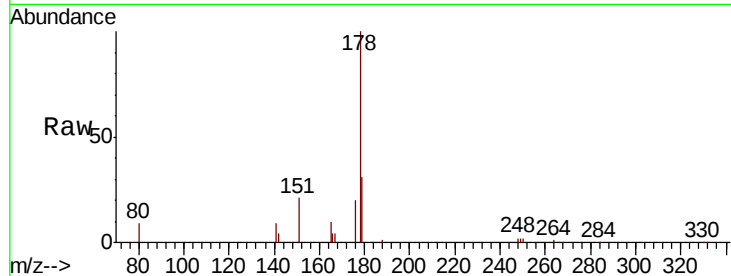
ClientSampled :

STOCK-PILEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 267147 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.5  | 15.3  | 22.9   |
| 179       | 26.8  | 12.6  | 19.0#  |

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#24

Anthracene

Concen: 0.969 ng

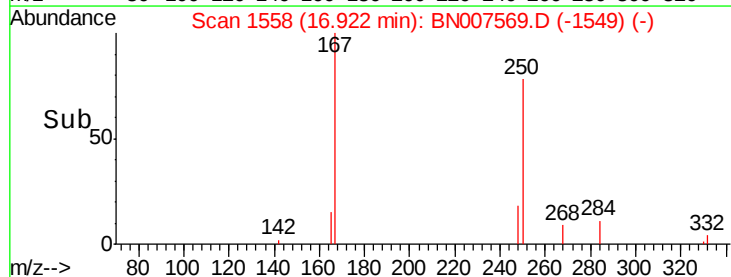
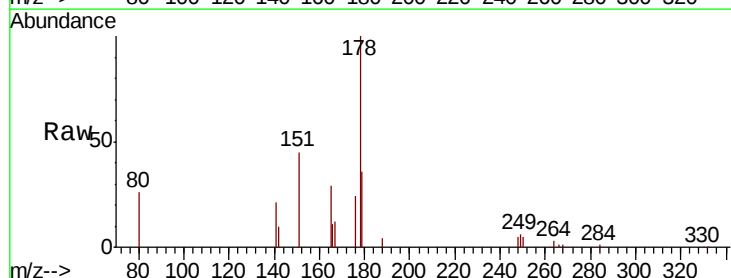
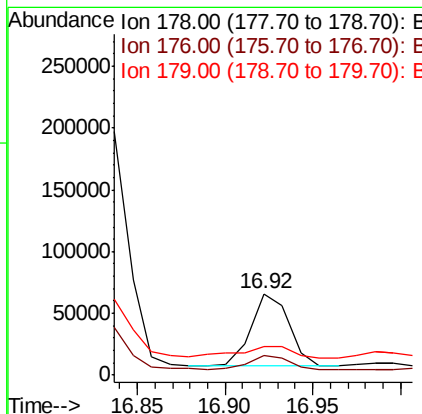
RT: 16.92 min Scan# 1558

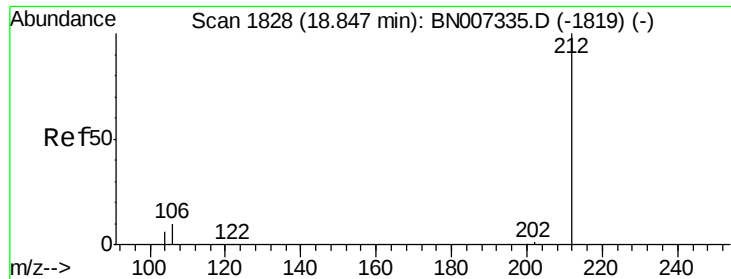
Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 89208 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.5  | 14.9  | 22.3  |
| 179       | 22.8  | 12.4  | 18.6# |





#25

Fluoranthene-d10

Concen: 0.309 ng

RT: 18.84 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

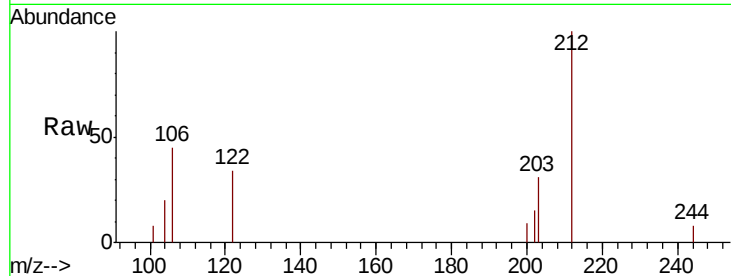
ClientSampleId :

STOCK-PILEMS

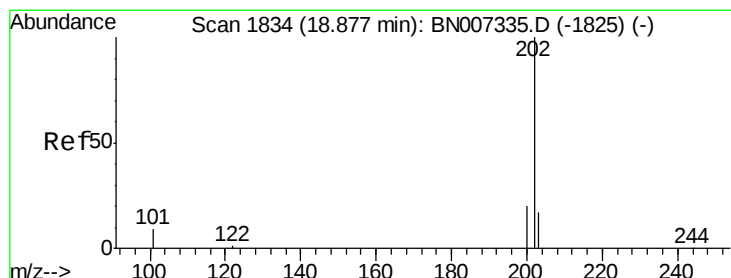
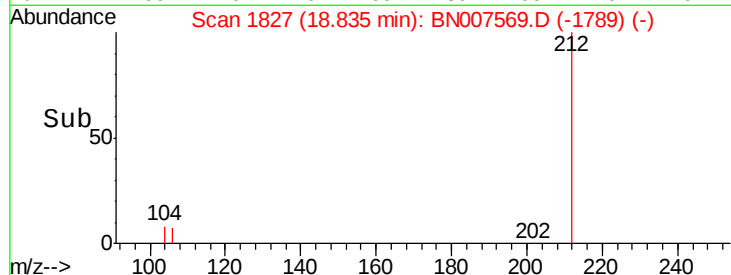
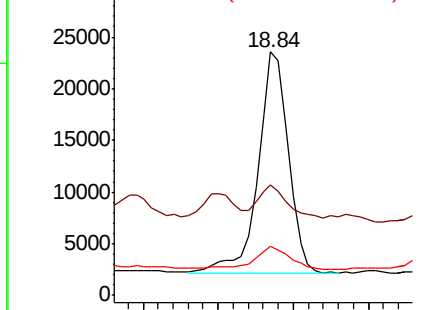
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 30289 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 14.9  | 9.0   | 13.4# |
| 104       | 12.8  | 5.4   | 8.2#  |

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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: 5.081 ng

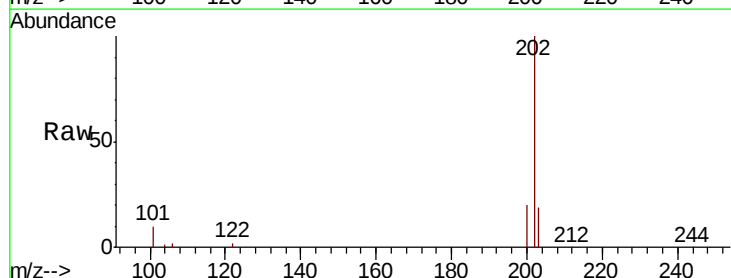
RT: 18.87 min Scan# 1834

Delta R.T. -0.01 min

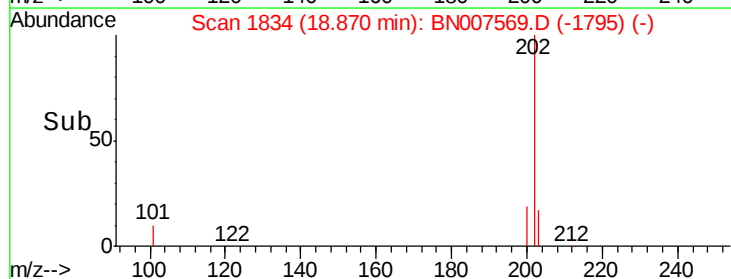
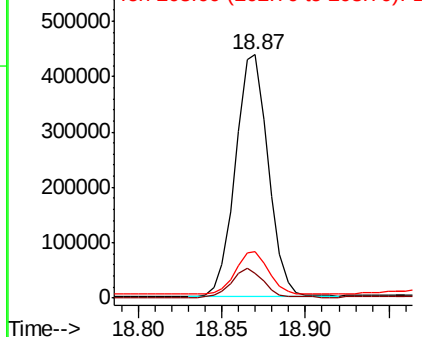
Lab File: BN007569.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 597002 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 7.7   | 11.5   |
| 203       | 17.5  | 13.7  | 20.5   |



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: 21.00 min Scan# 2157

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

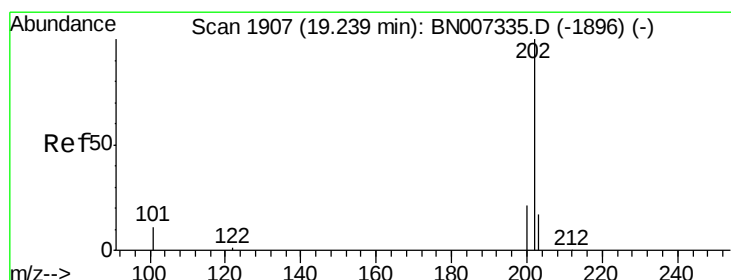
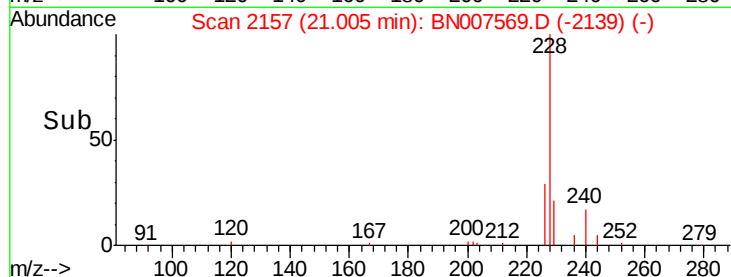
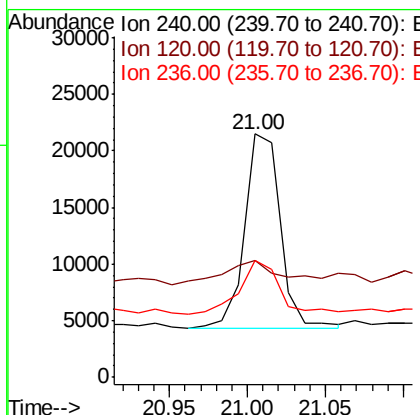
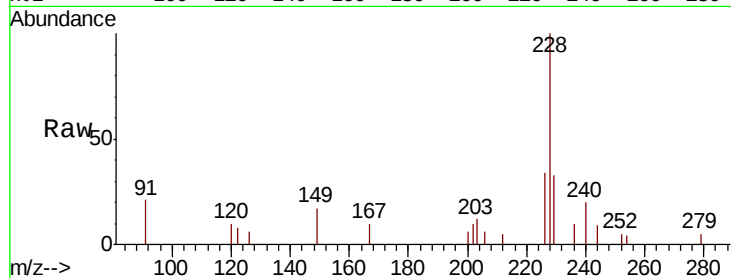
ClientSampleId :

STOCK-PILEMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 240   | Resp: | 26925 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 48.0  | 9.6   | 14.4# |
| 236       | 48.0  | 22.2  | 33.2# |

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#28

Pyrene

Concen: 6.028 ng

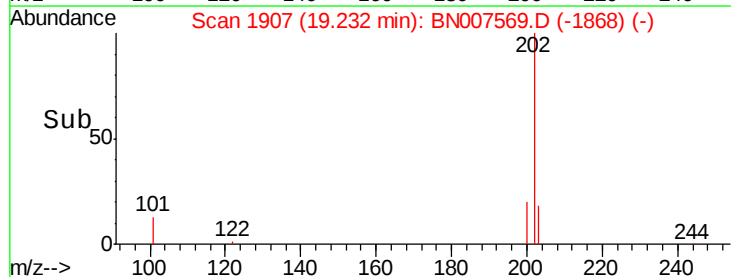
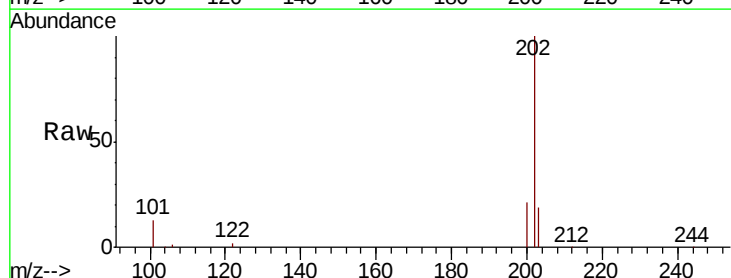
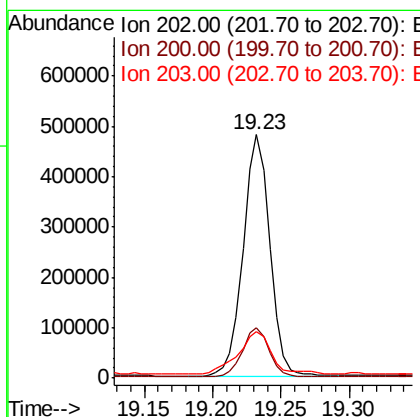
RT: 19.23 min Scan# 1907

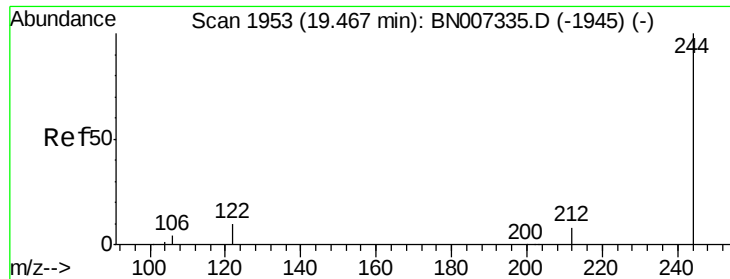
Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 652923 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.6  | 16.6  | 25.0   |
| 203       | 22.2  | 14.2  | 21.4#  |





#29

Terphenyl-d14

Concen: 0.393 ng

RT: 19.46 min Scan# 1952

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

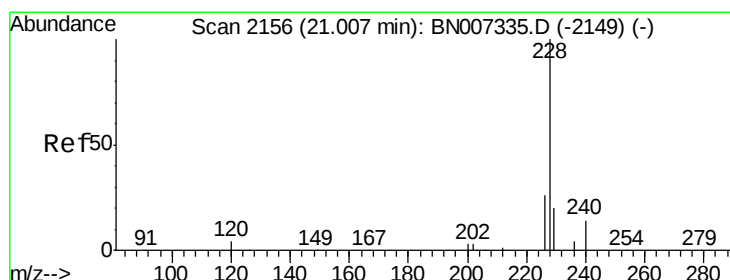
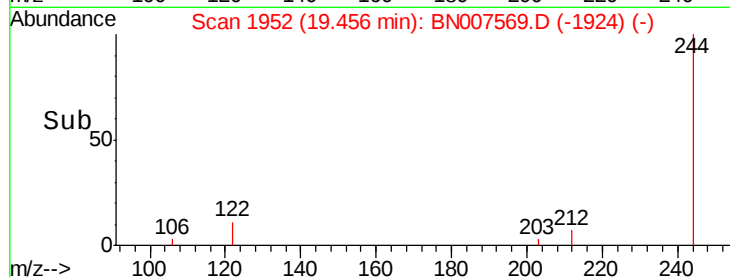
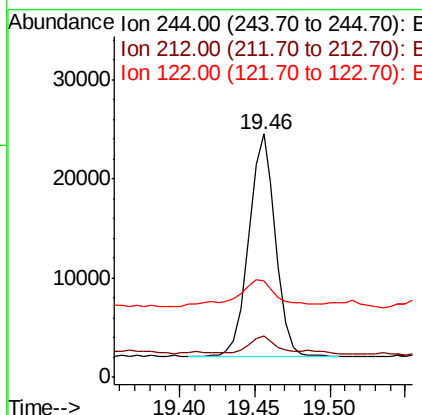
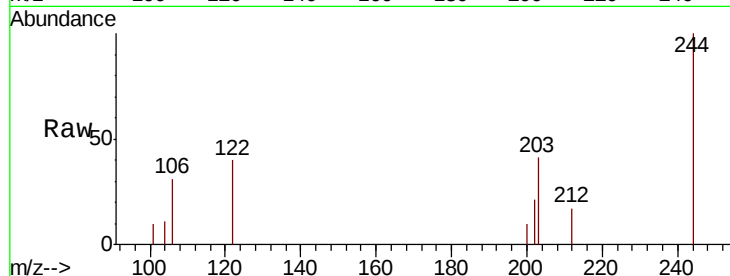
ClientSampleId :

STOCK-PILEMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 27665 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 16.9  | 7.0   | 10.6# |
| 122       | 39.8  | 9.6   | 14.4# |

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#30

Benzo(a)anthracene

Concen: 3.489 ng

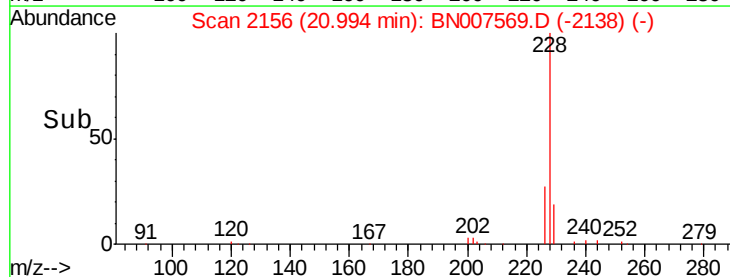
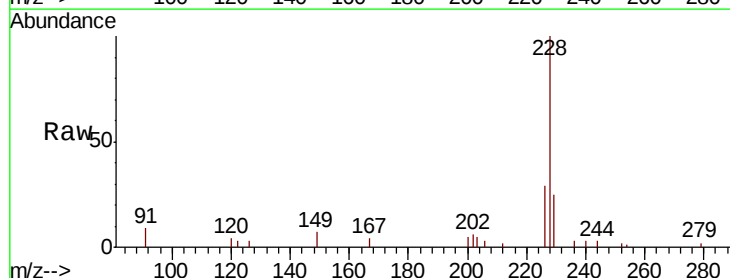
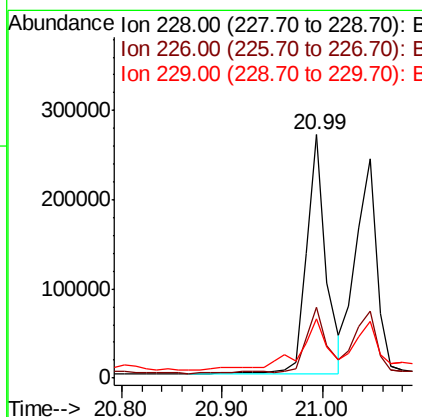
RT: 20.99 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 368959 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.3  | 21.3  | 31.9   |
| 229       | 24.5  | 16.1  | 24.1#  |





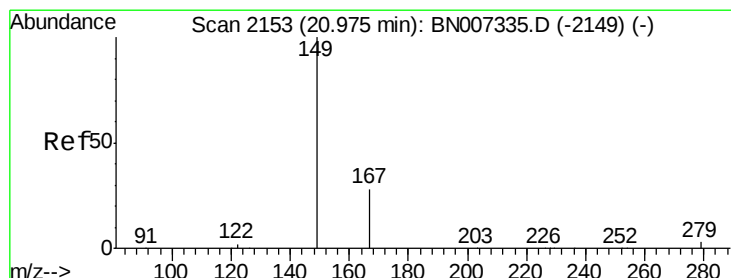
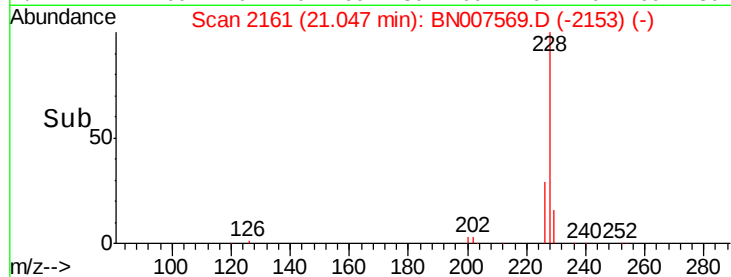
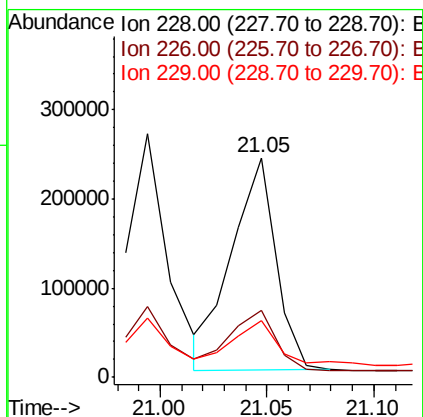
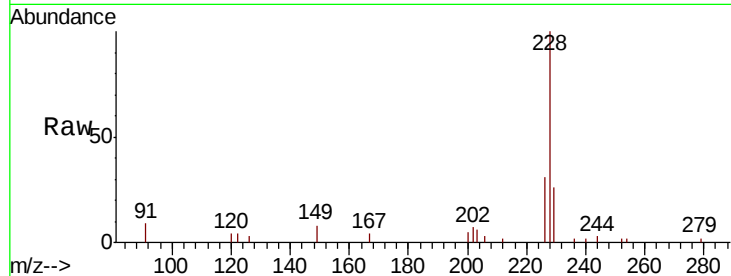
#31  
Chrysene  
Concen: 3.369 ng/mL  
RT: 21.05 min Scan# 2161  
Delta R.T. -0.01 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

Instrument :  
BNA\_N  
ClientSampleId :  
STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 23.5  | 35.3  |
| 229     | 25.6  | 16.6  | 24.8  |

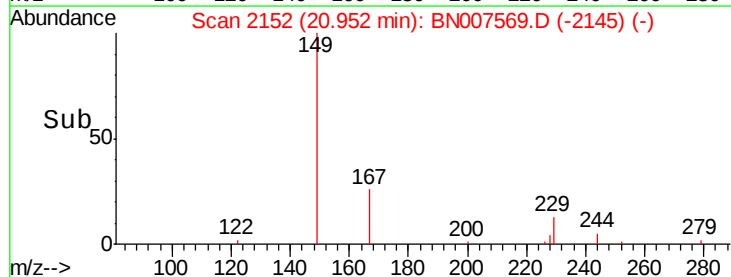
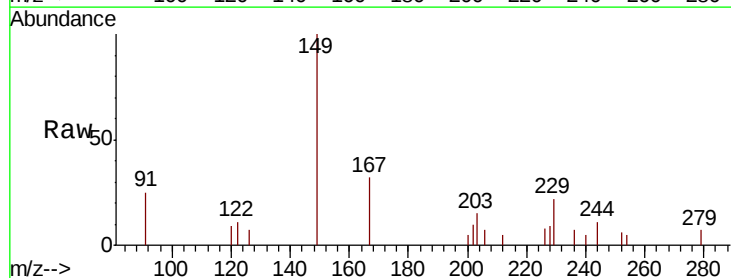
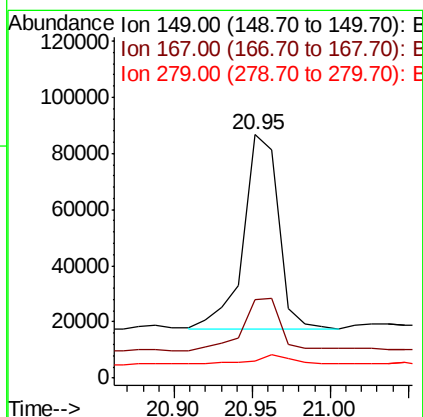
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#32  
Bis(2-ethylhexyl)phthalate  
Concen: 1.553 ng/mL  
RT: 20.95 min Scan# 2152  
Delta R.T. -0.02 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 32.0  | 22.8  | 34.2  |
| 279     | 5.3   | 3.5   | 5.3   |





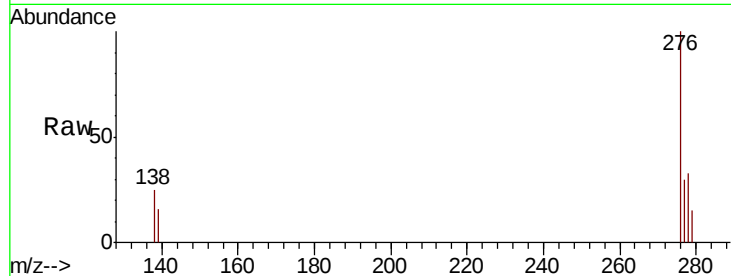
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 2.125 ng  
RT: 25.18 min Scan# 3099  
Delta R.T. -0.02 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

Instrument :  
BNA\_N  
ClientSampleId :  
STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.6  | 15.1  | 22.7  |
| 277     | 24.7  | 19.7  | 29.5  |

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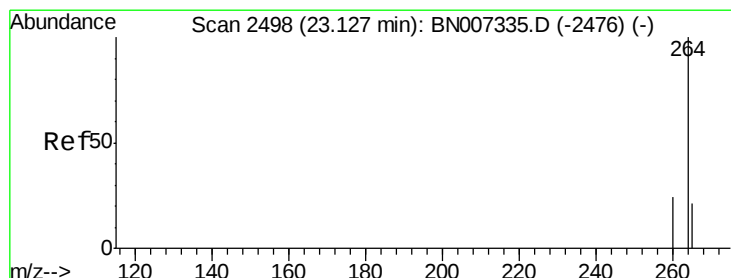
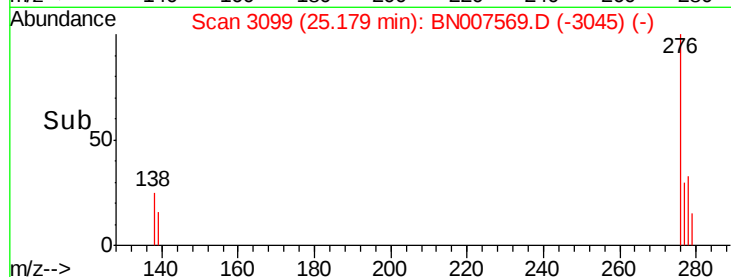
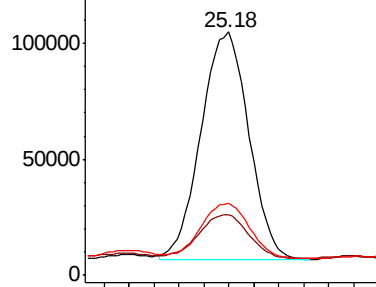


Abundance

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: 23.11 min Scan# 2495  
Delta R.T. -0.02 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

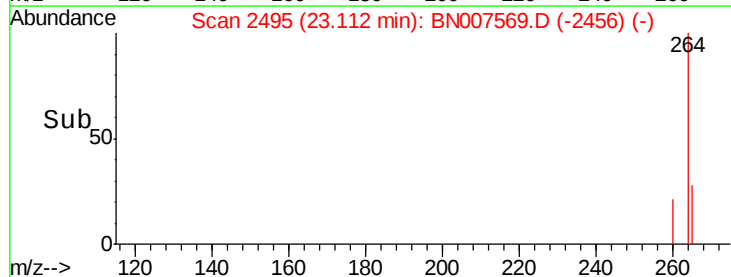
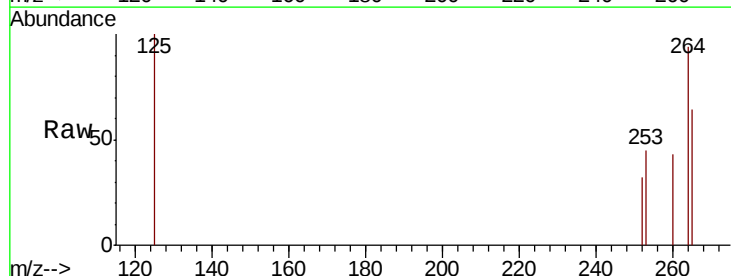
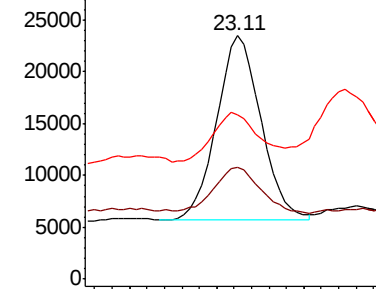
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 45.9  | 19.7  | 29.5# |
| 265     | 67.7  | 29.9  | 44.9# |

Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





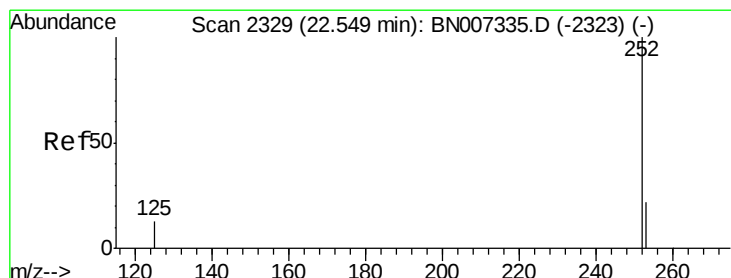
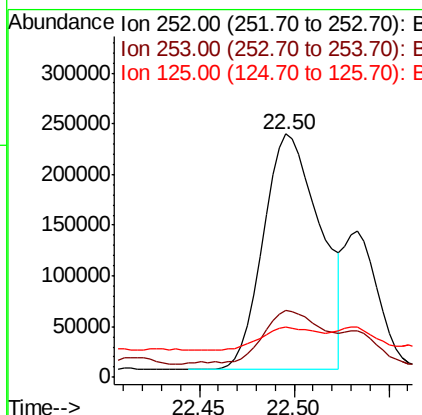
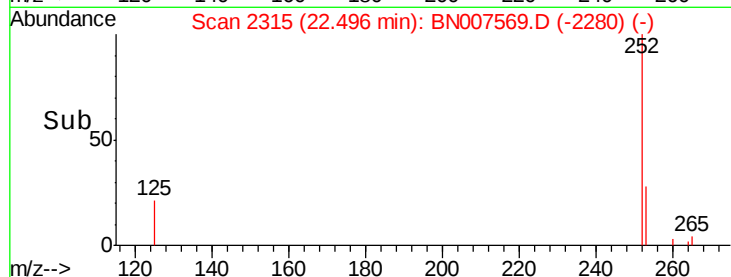
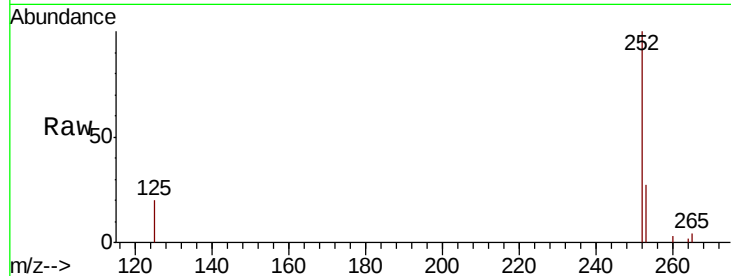
#35  
Benzo(b)fluoranthene  
Concen: 4.253 ng  
RT: 22.50 min Scan# 2315  
Delta R.T. -0.01 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

Instrument :  
BNA\_N  
ClientSampleId :  
STOCK-PILEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.5  | 19.2  | 28.8  |
| 125     | 20.5  | 10.6  | 16.0  |

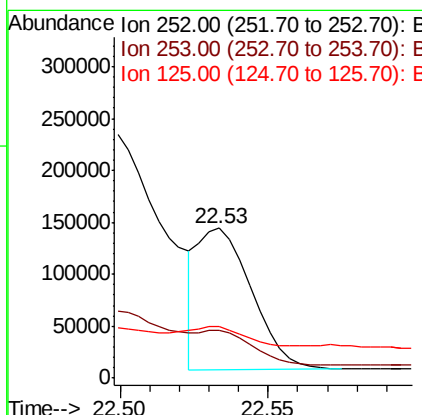
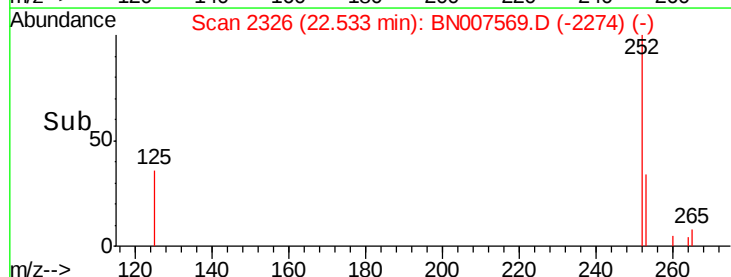
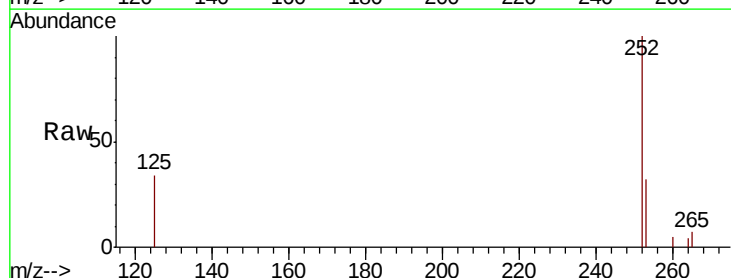
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#36  
Benzo(k)fluoranthene  
Concen: 1.530 ng m  
RT: 22.53 min Scan# 2326  
Delta R.T. -0.02 min  
Lab File: BN007569.D  
Acq: 09 Sep 2019 02:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.1  | 19.4  | 29.2  |
| 125     | 34.2  | 13.1  | 19.7  |





#37

Benzo(a)pyrene

Concen: 3.358 ng

RT: 23.02 min Scan# 2469

Delta R.T. -0.02 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

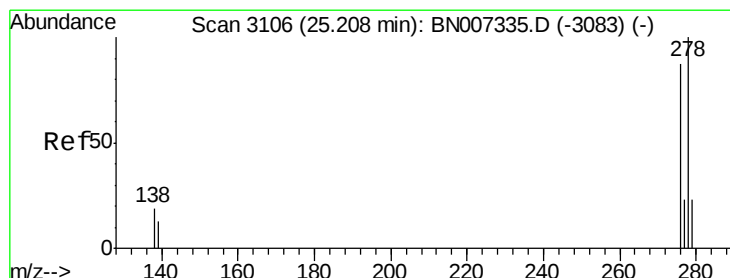
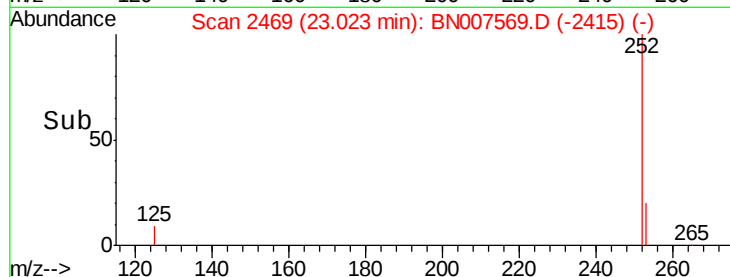
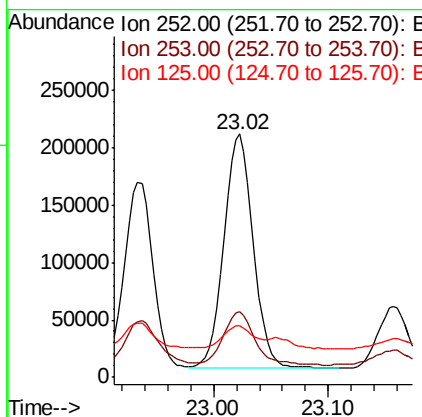
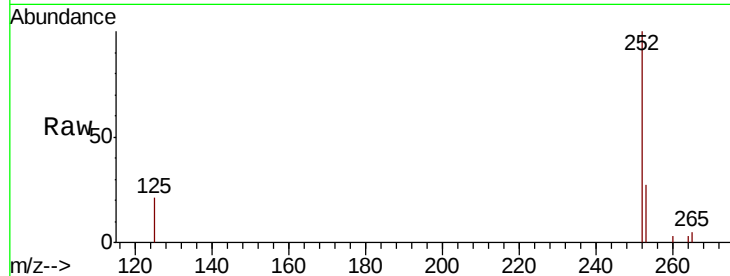
ClientSampleId :

STOCK-PILEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 364555 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 27.0  | 19.5  | 29.3   |
| 125       | 21.1  | 12.1  | 18.1   |

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#38

Dibenzo(a,h)anthracene

Concen: 0.815 ng

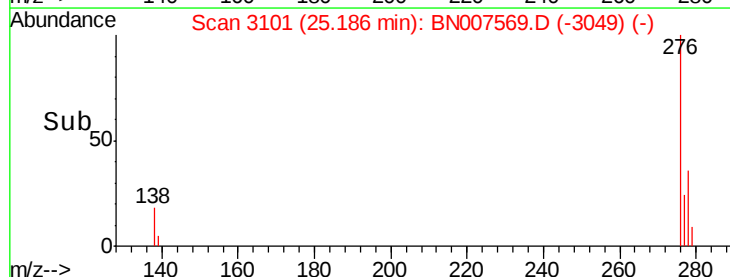
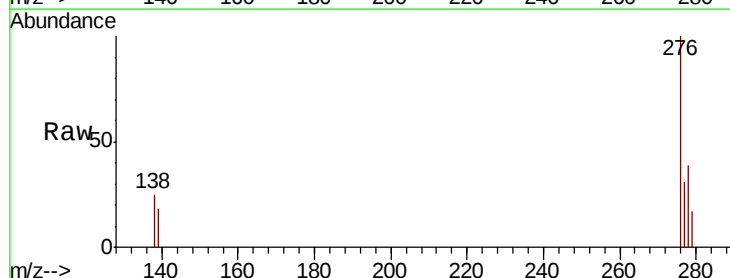
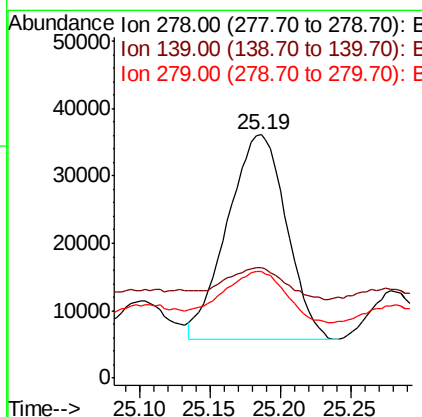
RT: 25.19 min Scan# 3101

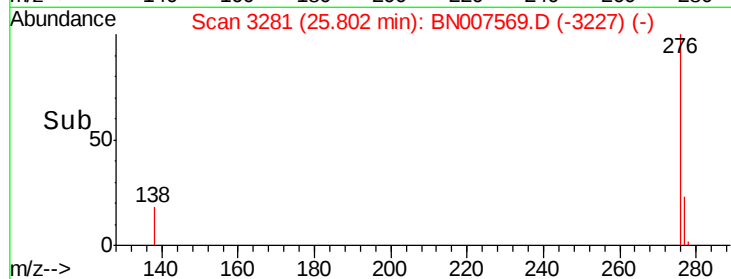
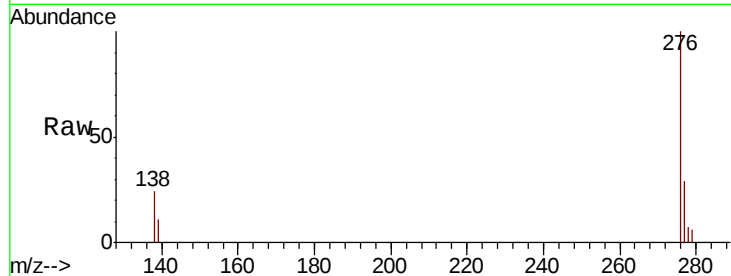
Delta R.T. -0.02 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 88287 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 45.4  | 13.7  | 20.5  |
| 279       | 43.8  | 20.2  | 30.4  |





#39

Benzo(a,h,i)perylene

Concen: 2.774 ng

RT: 25.80 min Scan# 3281

Delta R.T. -0.02 min

Lab File: BN007569.D

Acq: 09 Sep 2019 02:25

Instrument :

BNA\_N

ClientSampleId :

STOCK-PILEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 299376 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 28.5  | 19.6  | 29.4   |
| 138       | 24.2  | 16.3  | 24.5   |

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