

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\  
 Data File : BN007236.D  
 Acq On : 17 Aug 2019 00:14  
 Operator : HP/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Manual Integrations  
 APPROVED

Quant Time: Aug 17 01:10:30 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 13 12:12:02 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.42  | 152  | 6262     | 0.40 | ng    | -0.02    |
| 6) Naphthalene-d8         | 10.17 | 136  | 23722    | 0.40 | ng    | -0.01    |
| 12) Acenaphthene-d10      | 14.07 | 164  | 13845    | 0.40 | ng    | -0.01    |
| 18) Phenanthrene-d10      | 16.81 | 188  | 32636    | 0.40 | ng    | -0.01    |
| 26) Chrysene-d12          | 21.03 | 240  | 31889    | 0.40 | ng    | -0.02    |
| 32) Perylene-d12          | 23.14 | 264  | 34722    | 0.40 | ng    | -0.03    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 3) 2-Fluorophenol           | 5.05  | 112 | 6232  | 0.41 | ng | 0.00  |
| 4) Phenol-d6                | 6.61  | 99  | 7805  | 0.42 | ng | 0.00  |
| 7) Nitrobenzene-d5          | 8.55  | 82  | 8385  | 0.44 | ng | -0.01 |
| 10) 2-Methylnaphthalene-d10 | 11.78 | 152 | 17231 | 0.39 | ng | -0.02 |
| 13) 2,4,6-Tribromophenol    | 15.57 | 330 | 2666  | 0.36 | ng | 0.00  |
| 14) 2-Fluorobiphenyl        | 12.71 | 172 | 1341  | 0.07 | ng | 0.00  |
| 24) Fluoranthene-d10        | 18.86 | 212 | 45378 | 0.39 | ng | -0.02 |
| 28) Terphenyl-d14           | 19.48 | 244 | 39734 | 0.46 | ng | -0.02 |

|                               |       |     |        |        |    |       |
|-------------------------------|-------|-----|--------|--------|----|-------|
| Target Compounds              |       |     |        | Qvalue |    |       |
| 2) n-Nitrosodimethylamine     | 3.35  | 42  | 1515   | 0.368  | ng | # 97  |
| 5) bis(2-Chloroethyl)ether    | 6.86  | 93  | 6972   | 0.423  | ng | 97    |
| 8) Naphthalene                | 10.22 | 128 | 26146  | 0.393  | ng | 99    |
| 9) Hexachlorobutadiene        | 10.53 | 225 | 5677   | 0.400  | ng | # 100 |
| 11) 2-Methylnaphthalene       | 11.85 | 142 | 18458  | 0.392  | ng | 97    |
| 15) Acenaphthylene            | 13.78 | 152 | 31116  | 0.430  | ng | 100   |
| 16) Acenaphthene              | 14.13 | 154 | 18676  | 0.403  | ng | 99    |
| 17) Fluorene                  | 15.12 | 166 | 25236  | 0.364  | ng | 100   |
| 19) 4-Bromophenyl-phenylether | 16.03 | 248 | 8123   | 0.402  | ng | 92    |
| 20) Hexachlorobenzene         | 16.13 | 284 | 8856   | 0.456  | ng | 99    |
| 21) Pentachlorophenol         | 16.47 | 266 | 3117   | 0.431  | ng | 98    |
| 22) Phenanthrene              | 16.86 | 178 | 42251  | 0.432  | ng | 100   |
| 23) Anthracene                | 16.95 | 178 | 38178  | 0.427  | ng | 99    |
| 25) Fluoranthene              | 18.89 | 202 | 50309  | 0.402  | ng | 100   |
| 27) Pyrene                    | 19.25 | 202 | 51279  | 0.459  | ng | 100   |
| 29) Benzo(a)anthracene        | 21.01 | 228 | 51127  | 0.438  | ng | 99    |
| 30) Chrysene                  | 21.07 | 228 | 50581  | 0.446  | ng | 99    |
| 31) Indeno(1,2,3-cd)pyrene    | 25.21 | 276 | 59551  | 0.477  | ng | 98    |
| 33) Benzo(b)fluoranthene      | 22.52 | 252 | 51503  | 0.433  | ng | 100   |
| 34) Benzo(k)fluoranthene      | 22.57 | 252 | 49814m | 0.424  | ng |       |
| 35) Benzo(a)pyrene            | 23.05 | 252 | 46836  | 0.434  | ng | 100   |
| 36) Dibenzo(a,h)anthracene    | 25.23 | 278 | 48632  | 0.452  | ng | 97    |
| 37) Benzo(g,h,i)perylene      | 25.84 | 276 | 47279  | 0.427  | ng | 99    |

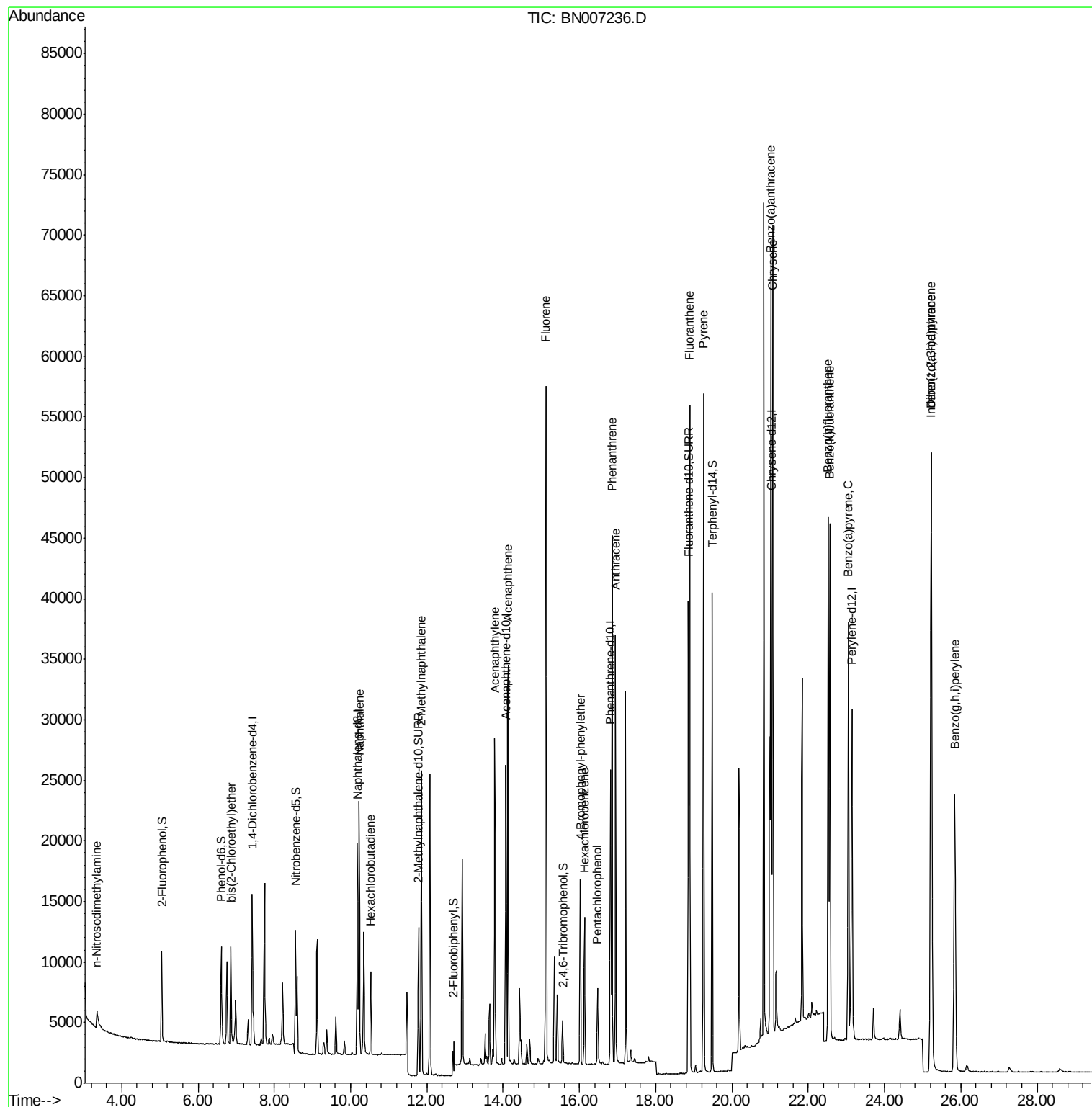
(#) = qualifier out of range (m) = manual integration (+) = signals summed

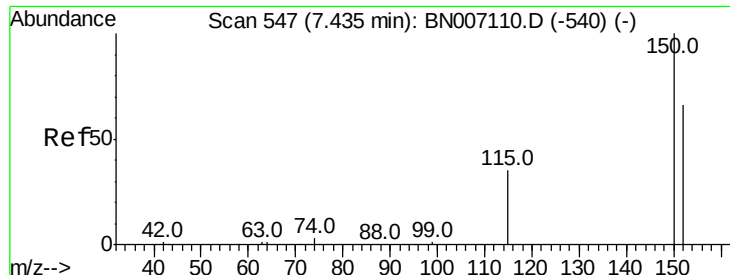
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\  
Data File : BN007236.D  
Acq On : 17 Aug 2019 00:14  
Operator : HP/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :

Quant Time: Aug 17 01:10:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 13 12:12:02 2019  
Response via : Initial Calibration

Manual Integrations  
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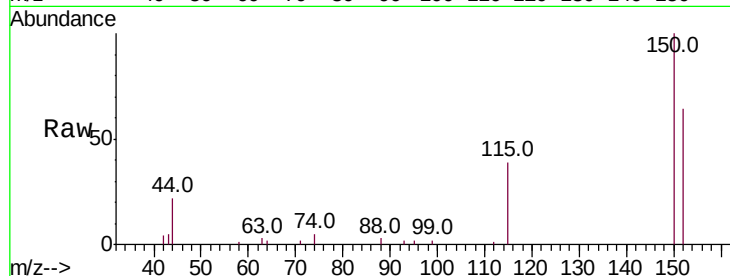
#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.42 min Scan# 545  
Delta R.T. -0.02 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

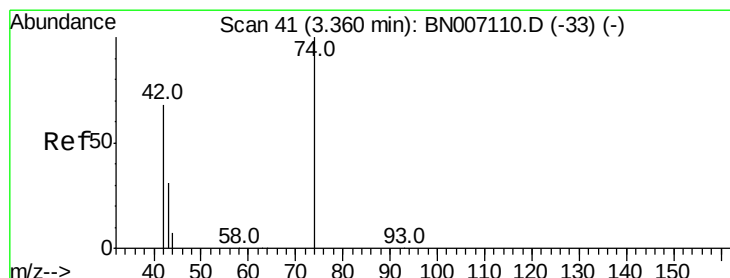
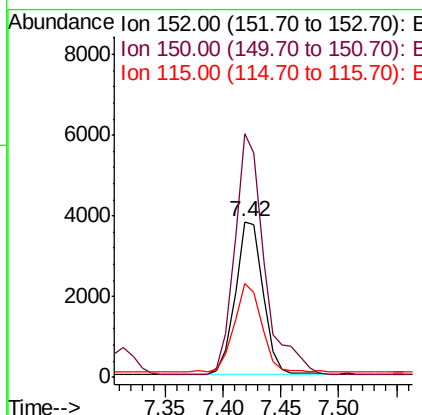
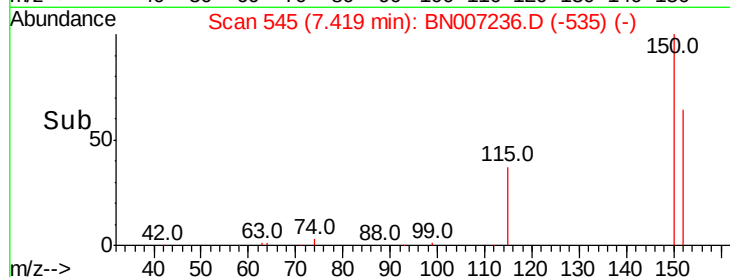
Instrument :  
BNA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 121.7 | 182.5 |
| 115     | 60.6  | 46.2  | 69.4  |

Manual Integrations  
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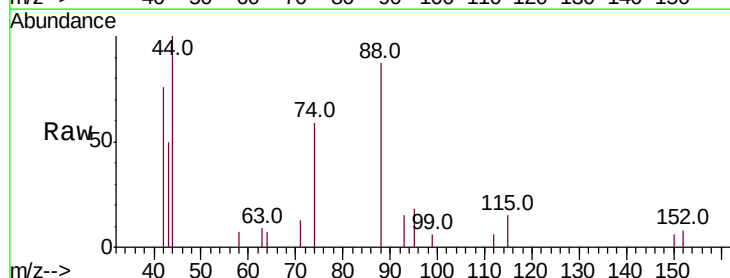
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



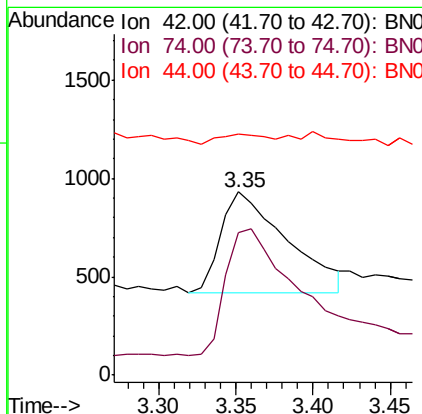
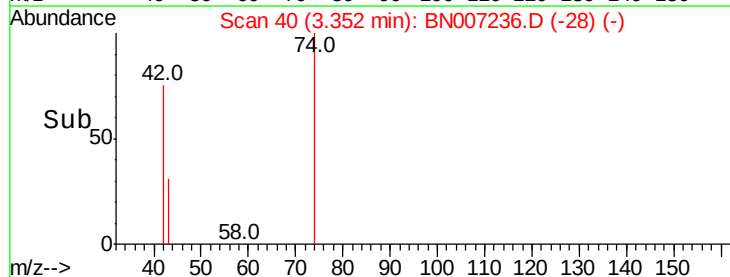
#2

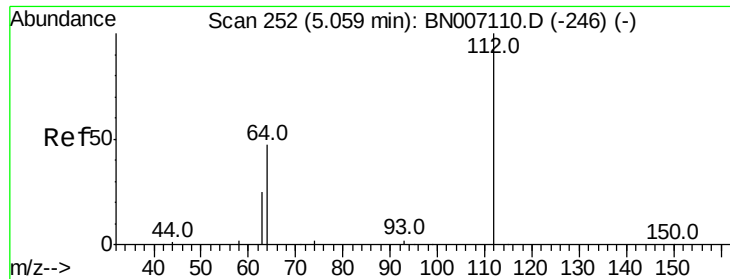
n-Nitrosodimethylamine  
Concen: 0.368 ng  
RT: 3.35 min Scan# 40  
Delta R.T. -0.01 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 134.1 | 110.6 | 166.0 |
| 44      | 6.8   | 0.0   | 0.0#  |



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





#3

2-Fluorophenol

Concen: 0.414 ng

RT: 5.05 min Scan# 251

Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

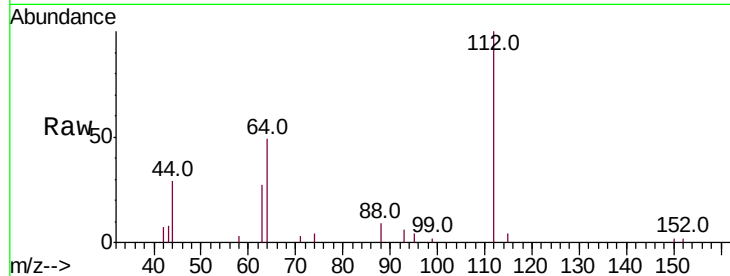
Instrument :

BNA\_N

ClientSampled :

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 112   | Resp: | 6232 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 64        | 51.5  | 42.6  | 63.8 |
| 63        | 27.6  | 22.2  | 33.2 |

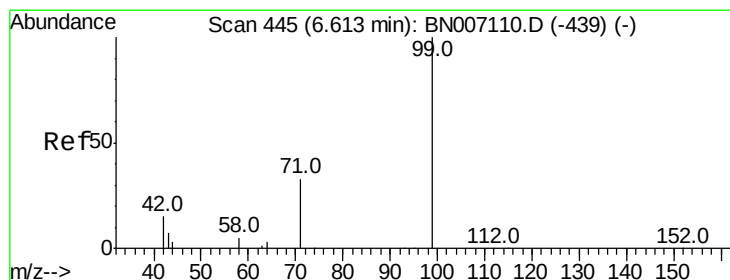
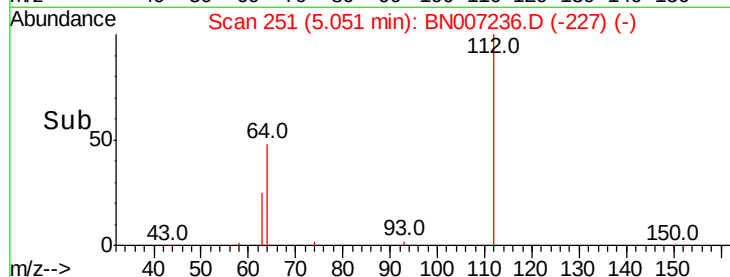
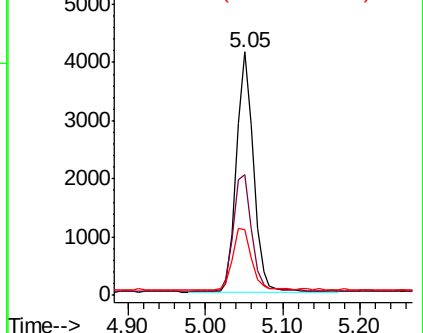
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Abundance Ion 112.00 (111.70 to 112.70): BNC

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC



#4

Phenol-d6

Concen: 0.419 ng

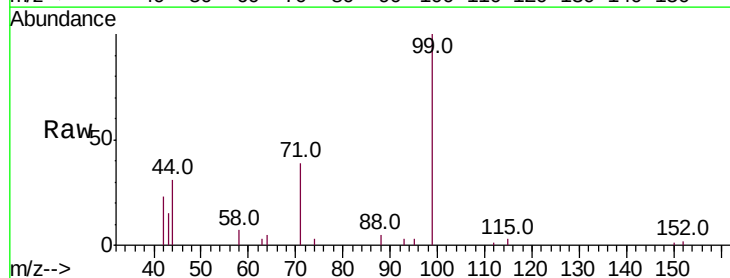
RT: 6.61 min Scan# 444

Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

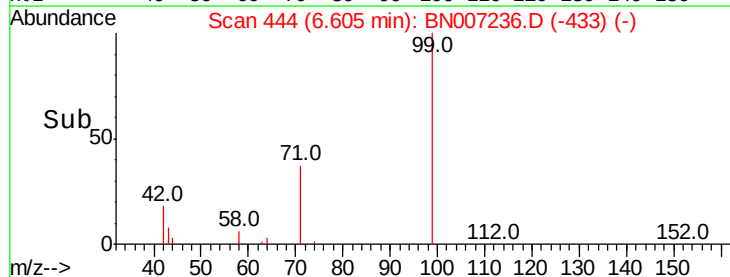
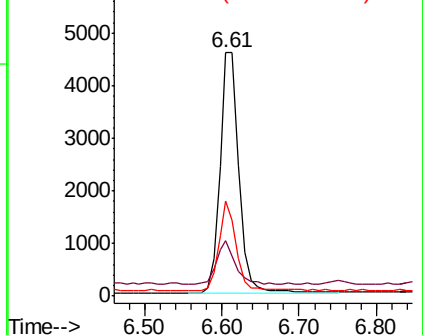
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 99    | Resp: | 7805 |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 18.0  | 15.8  | 23.6 |
| 71        | 34.3  | 27.0  | 40.4 |

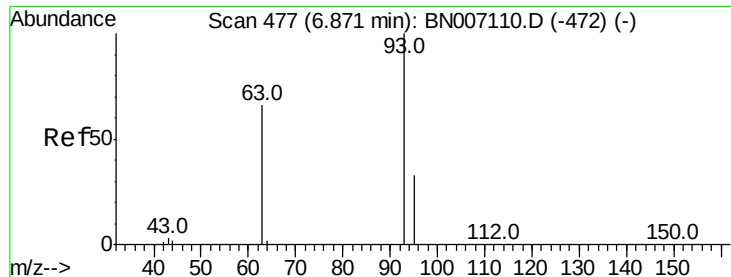


Abundance Ion 99.00 (98.70 to 99.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 71.00 (70.70 to 71.70): BNC





#5

bis(2-Chloroethyl)ether

Concen: 0.423 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

Instrument :

BNA\_N

ClientSampleId :

Tot Ion: 93 Resp: 6972

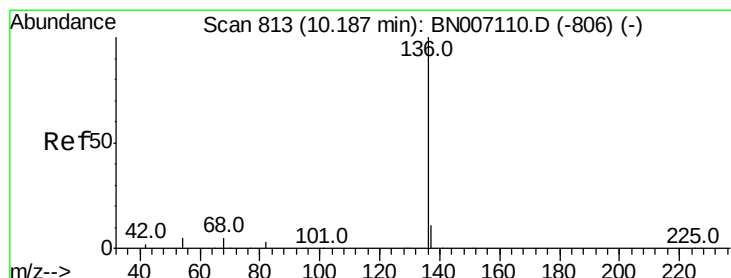
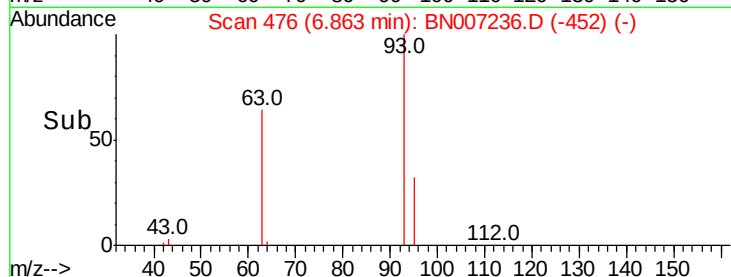
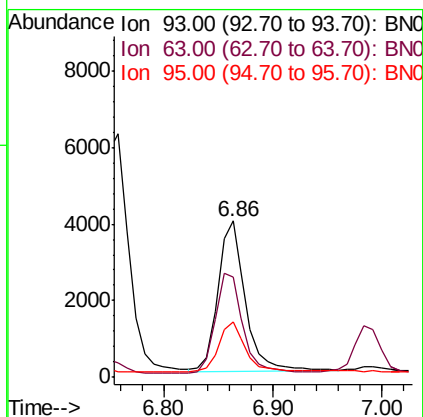
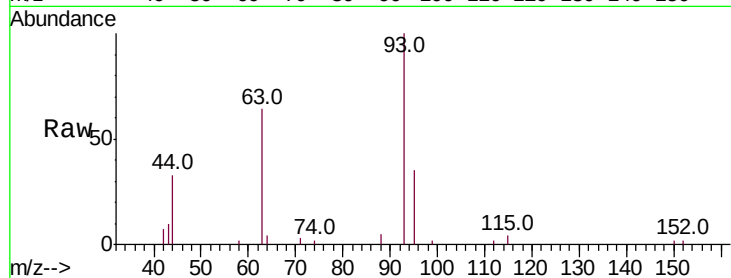
Ion Ratio Lower Upper

93 100

63 66.9 55.6 83.4

95 32.5 26.7 40.1

Manual Integrations  
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#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

Tgt Ion: 136 Resp: 23722

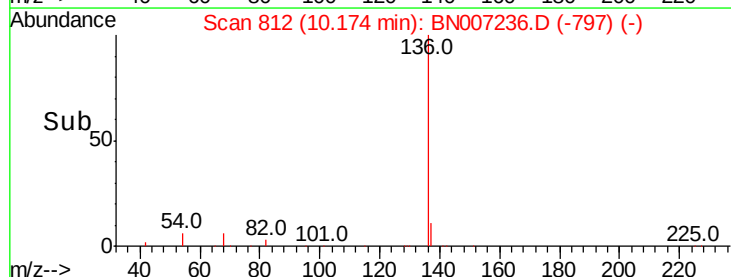
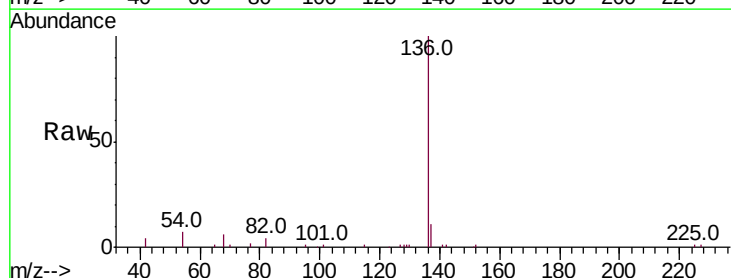
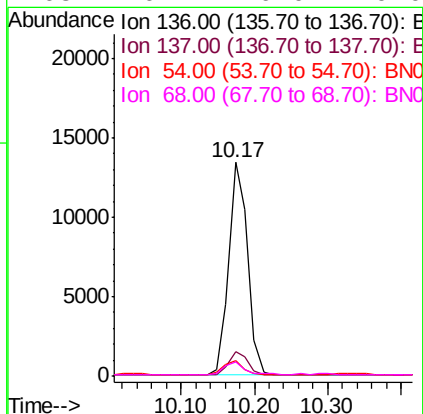
Ion Ratio Lower Upper

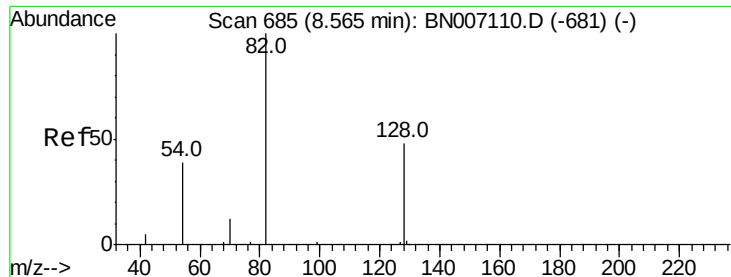
136 100

137 11.4 9.4 14.0

54 7.0 6.6 9.8

68 6.4 6.0 9.0





#7

Nitrobenzene-d5

Concen: 0.438 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

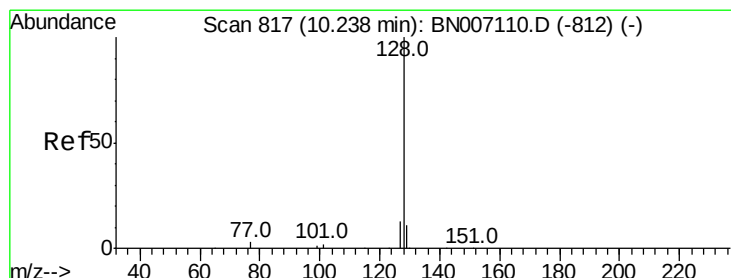
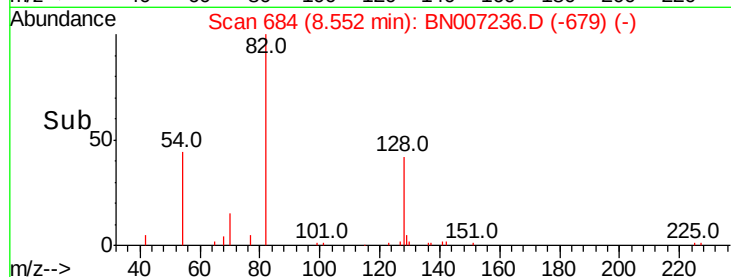
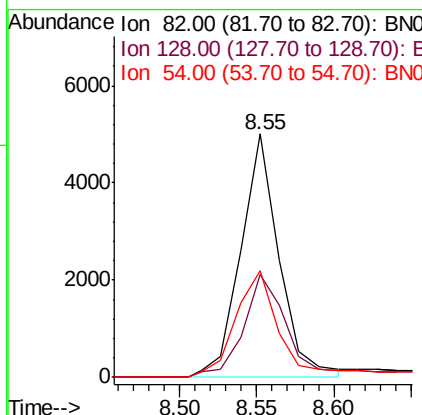
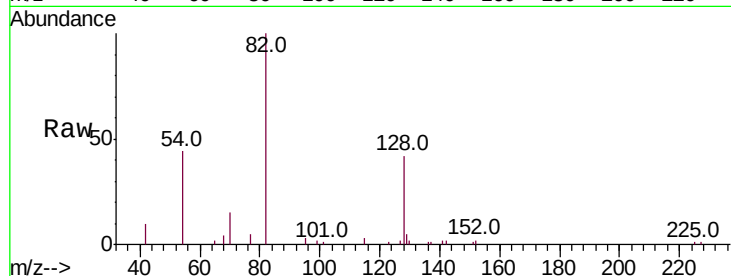
Instrument :

BNA\_N

ClientSampleId :

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 82    | Resp: | 8385 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 42.4  | 34.6  | 51.8 |
| 54        | 43.8  | 36.2  | 54.4 |

Manual Integrations  
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#8

Naphthalene

Concen: 0.393 ng

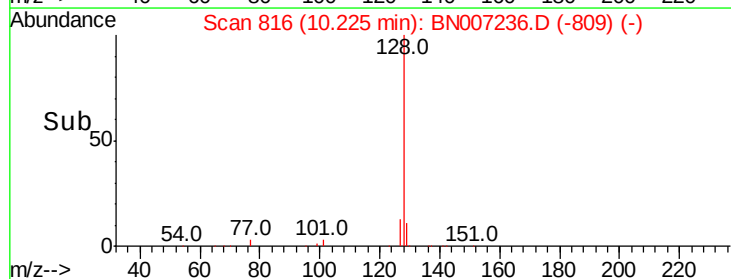
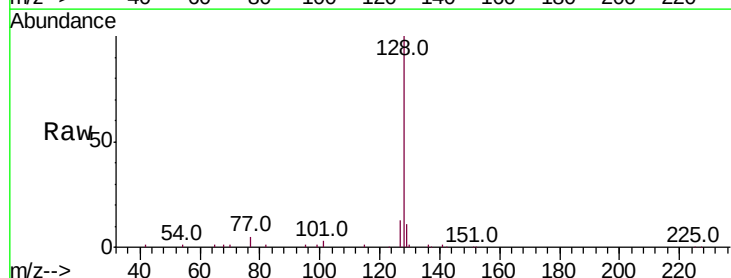
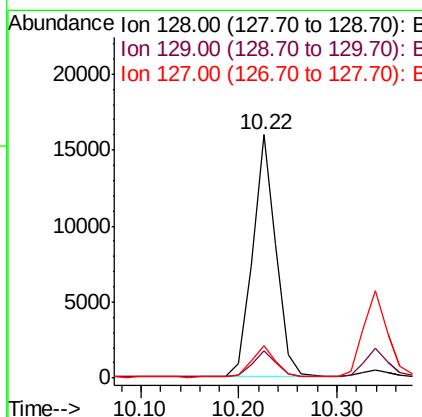
RT: 10.22 min Scan# 816

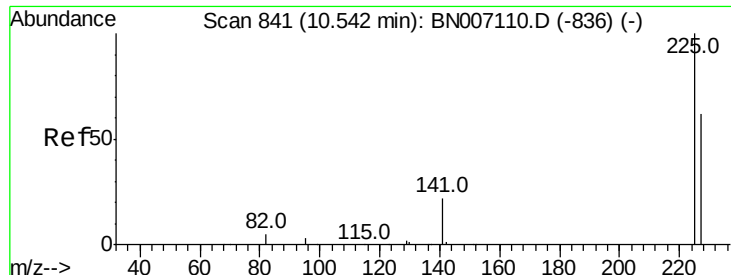
Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 26146 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.3  | 9.4   | 14.2  |
| 127       | 13.4  | 11.0  | 16.6  |





#9

Hexachlorobutadiene

Concen: 0.400 ng

RT: 10.53 min Scan# 840

Delta R.T. -0.03 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

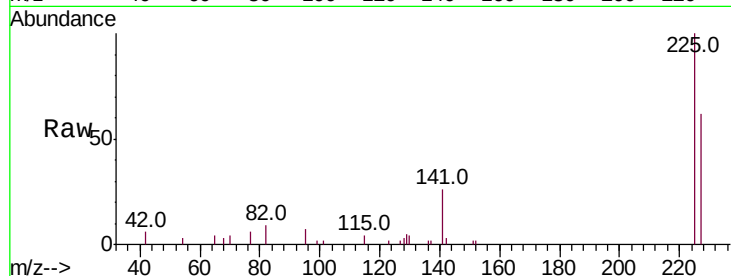
Instrument :

BNA\_N

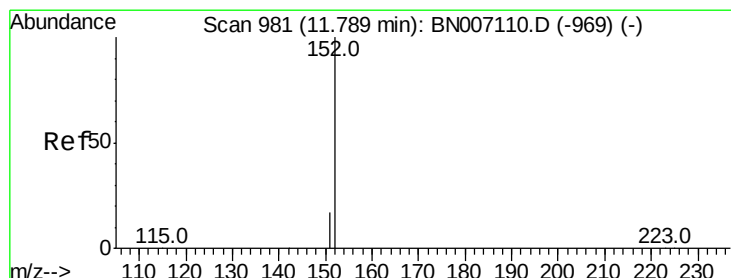
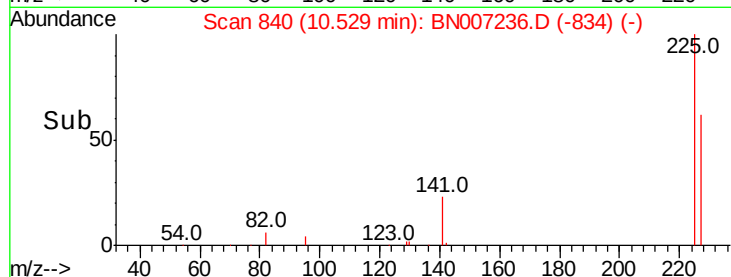
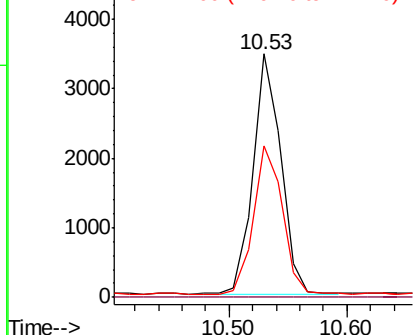
ClientSampled :

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 225   | Resp: | 5677 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 64.0  | 51.1  | 76.7 |

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Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E



#10

2-Methylnaphthalene-d10

Concen: 0.390 ng

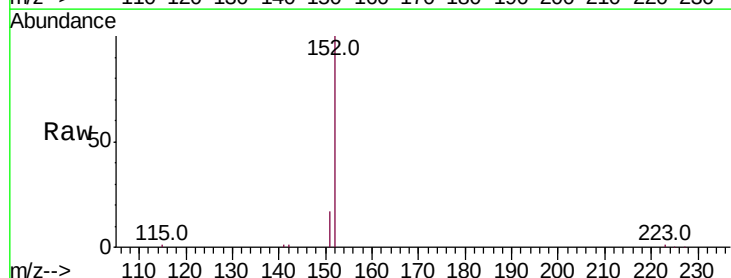
RT: 11.78 min Scan# 978

Delta R.T. -0.02 min

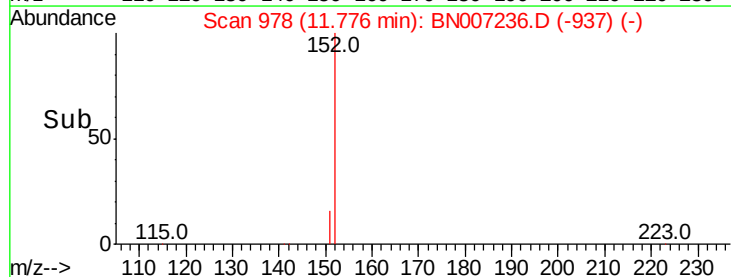
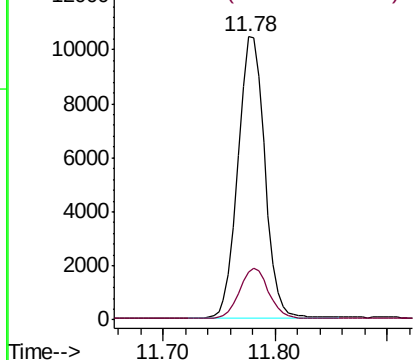
Lab File: BN007236.D

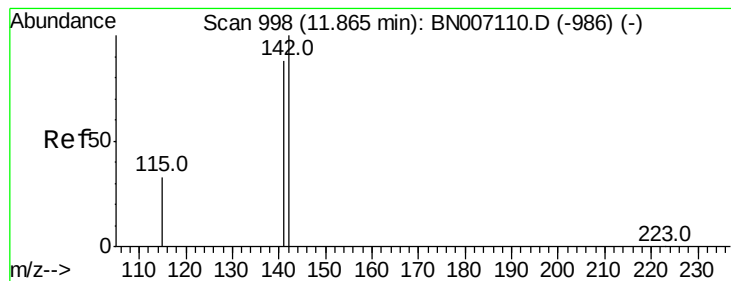
Acq: 17 Aug 2019 00:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 17231 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.2  | 15.5  | 23.3  |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E





#11

2-Methylnaphthalene

Concen: 0.392 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

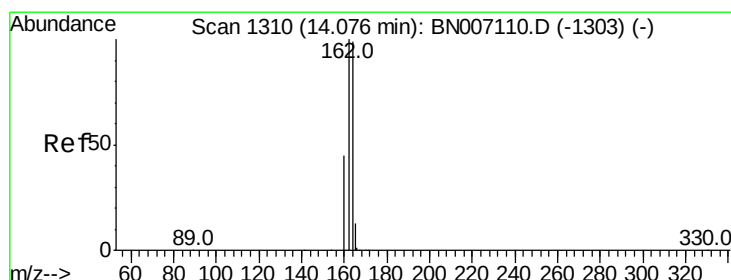
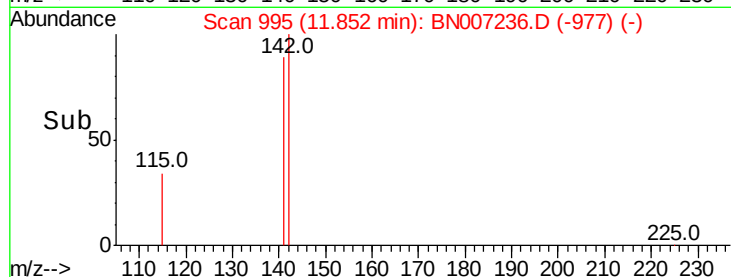
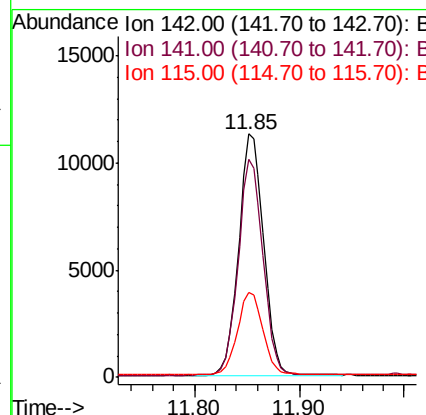
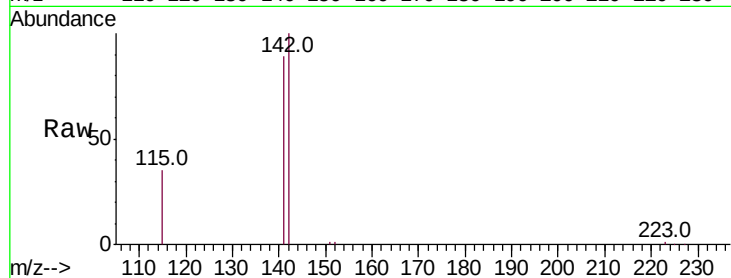
Instrument :

BNA\_N

ClientSampled :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 142   | Resp: | 18458 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.4  | 69.0  | 103.6 |
| 115       | 34.7  | 27.1  | 40.7  |

Manual Integrations  
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#12

Acenaphthene-d10

Concen: 0.400 ng

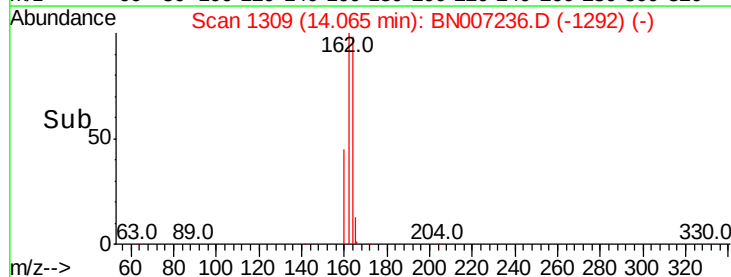
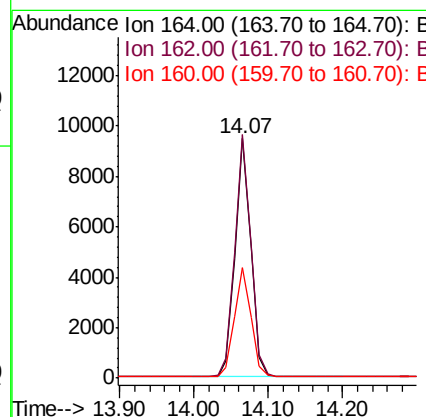
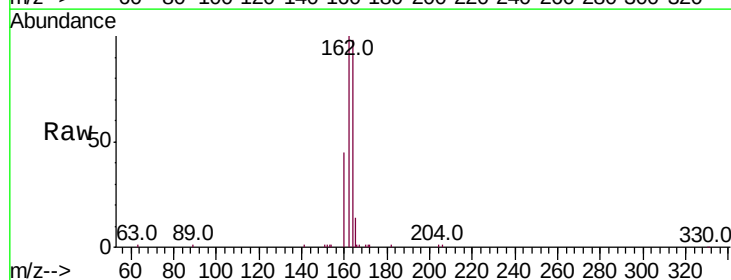
RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

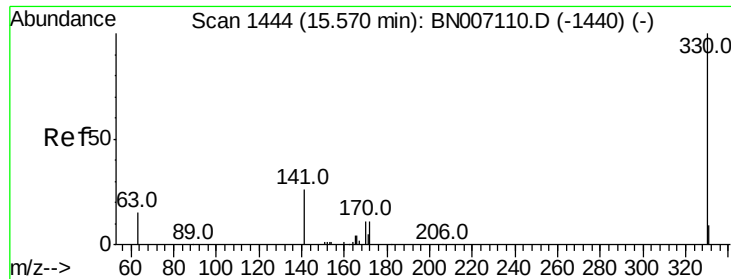
Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 13845 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 101.7 | 82.2  | 123.4 |
| 160       | 46.1  | 38.3  | 57.5  |





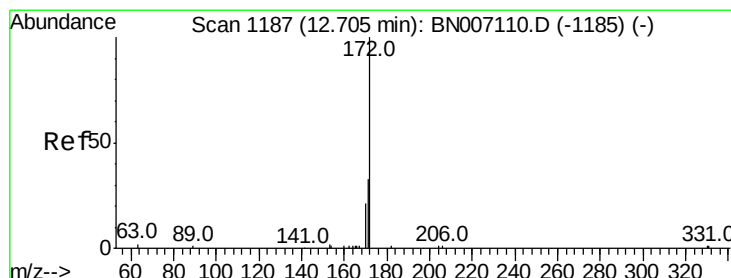
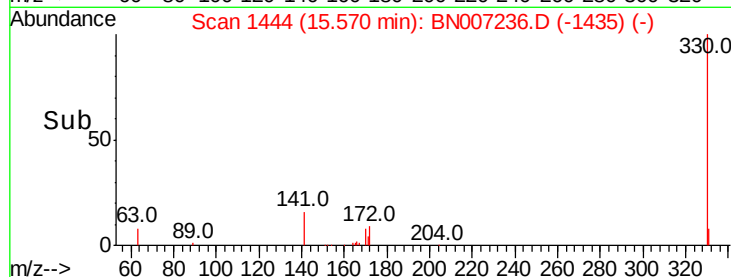
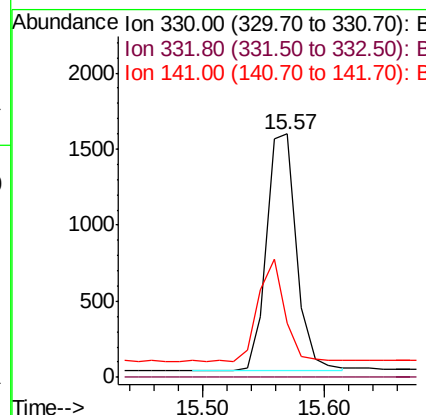
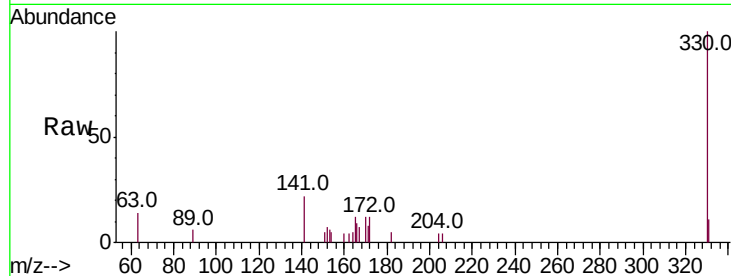


#13  
 2,4,6-Tribromophenol  
 Concen: 0.358 ng  
 RT: 15.57 min Scan# 1444  
 Delta R.T. -0.00 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

Instrument :  
 BNA\_N  
 ClientSampleId :

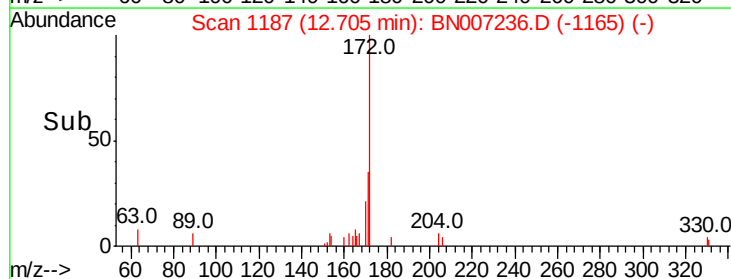
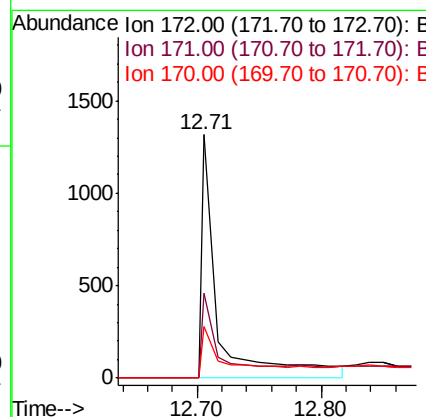
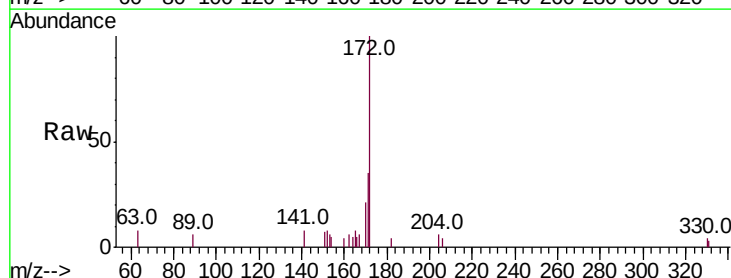
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   | 2666 |       |       |
| 332     | 0.0   | 0.0  | 0.0   | 0.0   |
| 141     | 38.3  | 33.6 | 50.4  |       |

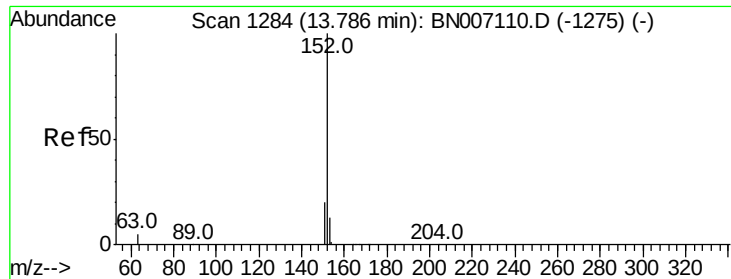
Manual Integrations  
 APPROVED



#14  
 2-Fluorobiphenyl  
 Concen: 0.067 ng  
 RT: 12.71 min Scan# 1187  
 Delta R.T. -0.00 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   | 1341 |       |       |
| 171     | 35.0  | 26.3 | 39.5  |       |
| 170     | 21.0  | 17.0 | 25.4  |       |





#15

Acenaphthylene

Concen: 0.430 ng

RT: 13.78 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

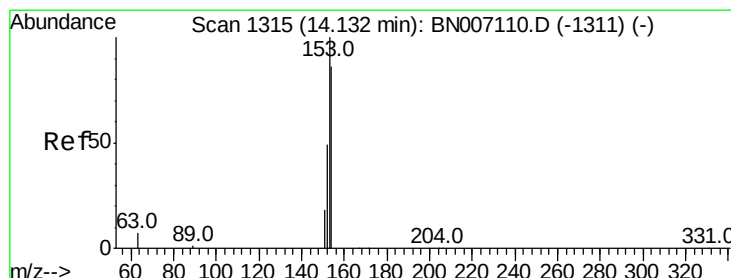
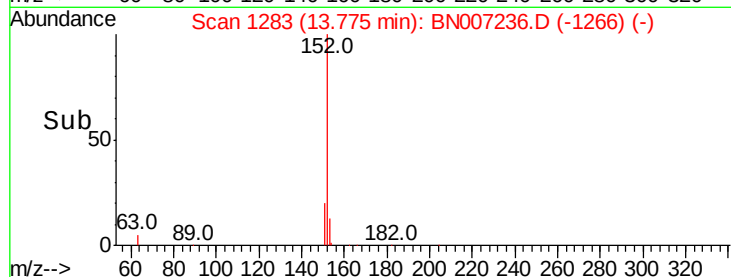
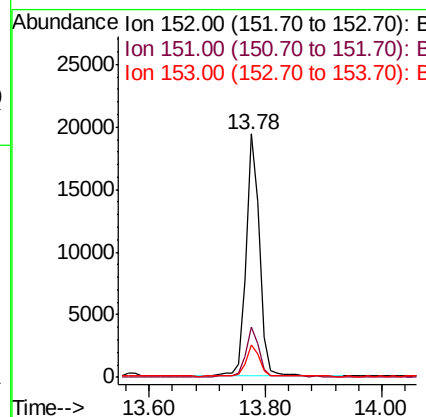
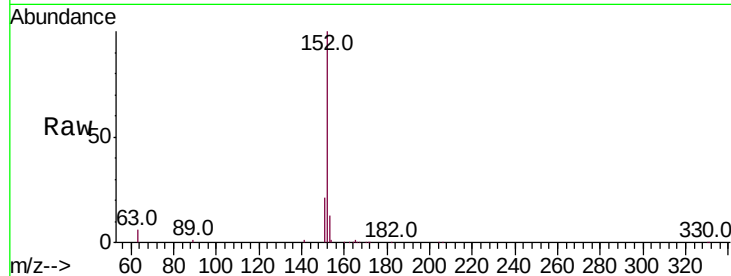
Instrument :

BNA\_N

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 31116 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 15.8  | 23.6  |
| 153       | 13.3  | 10.4  | 15.6  |

Manual Integrations  
APPROVED



#16

Acenaphthene

Concen: 0.403 ng

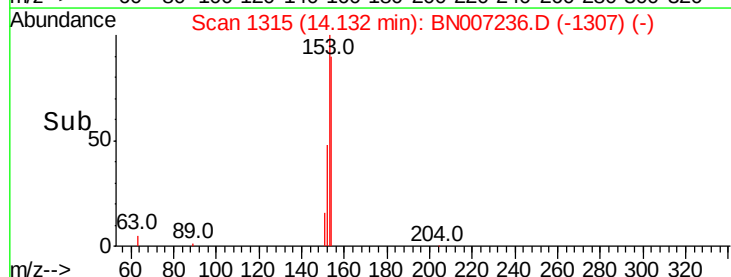
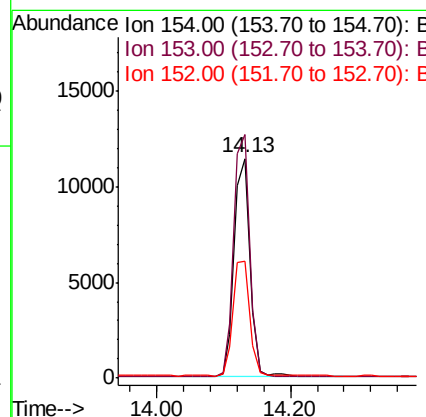
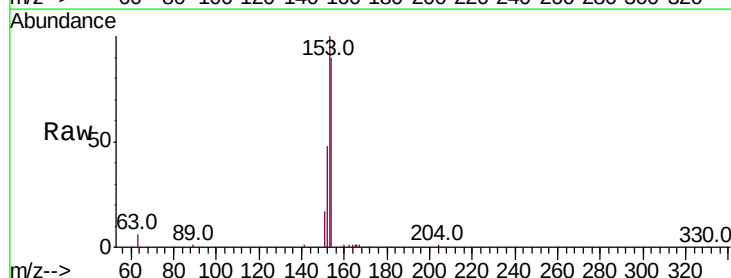
RT: 14.13 min Scan# 1315

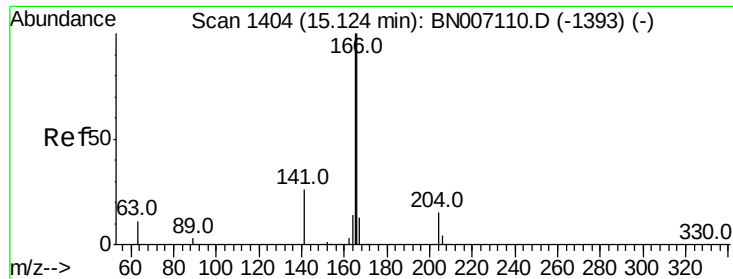
Delta R.T. -0.01 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 18676 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 111.5 | 89.5  | 134.3 |
| 152       | 55.0  | 44.8  | 67.2  |



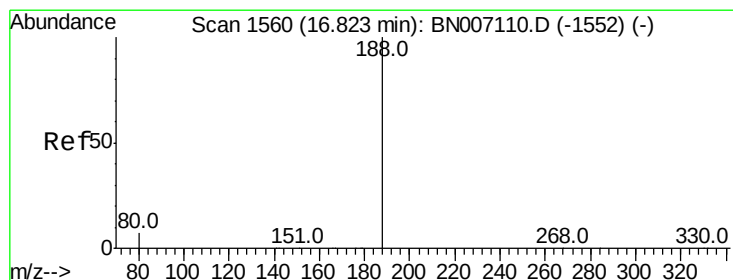
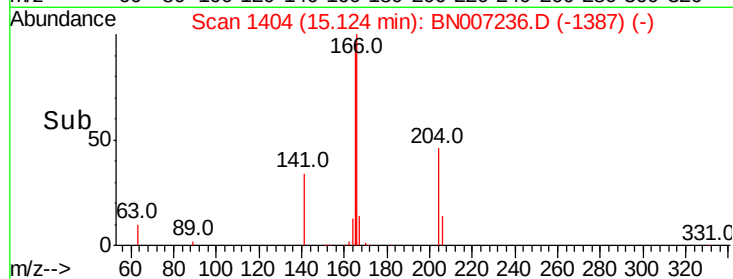
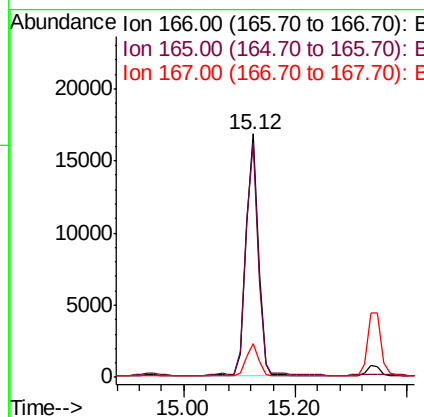
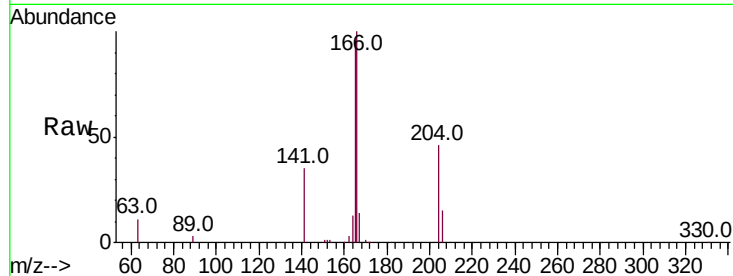


#17  
 Fluorene  
 Concen: 0.364 ng  
 RT: 15.12 min Scan# 1404  
 Delta R.T. -0.01 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

Instrument :  
 BNA\_N  
 ClientSampled :

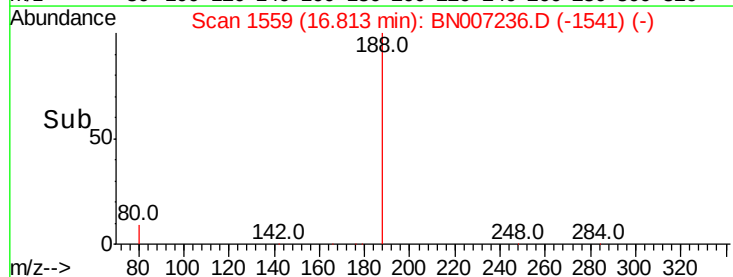
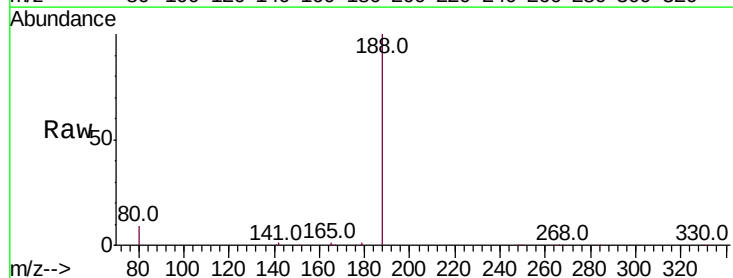
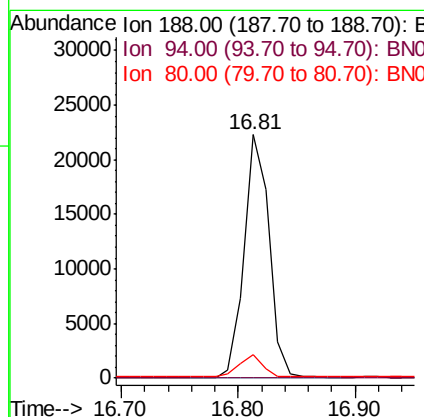
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.7  | 77.9  | 116.9 |
| 167     | 13.5  | 10.9  | 16.3  |

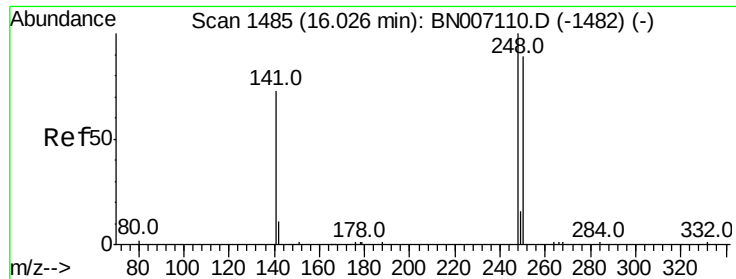
Manual Integrations  
 APPROVED



#18  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 16.81 min Scan# 1559  
 Delta R.T. -0.01 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 9.5   | 7.8   | 11.6  |



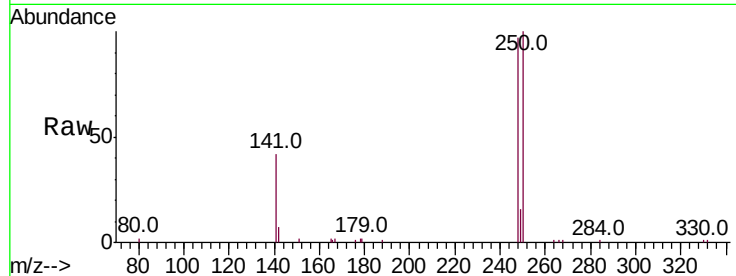


#19  
4-Bromophenyl-phenylether  
Concen: 0.402 ng  
RT: 16.03 min Scan# 1485  
Delta R.T. -0.01 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

Instrument :  
BNA\_N  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 103.3 | 78.9  | 118.3 |
| 141     | 43.8  | 43.3  | 64.9  |

Manual Integrations  
APPROVED

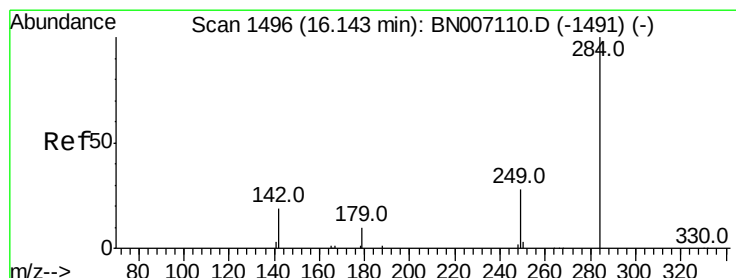
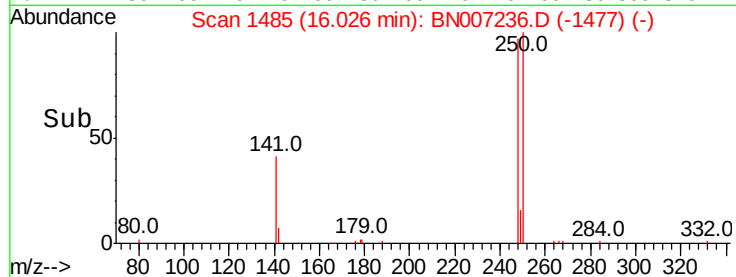
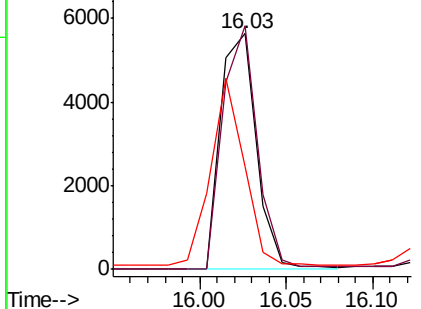


Abundance

Ion 248.00 (247.70 to 248.70): E

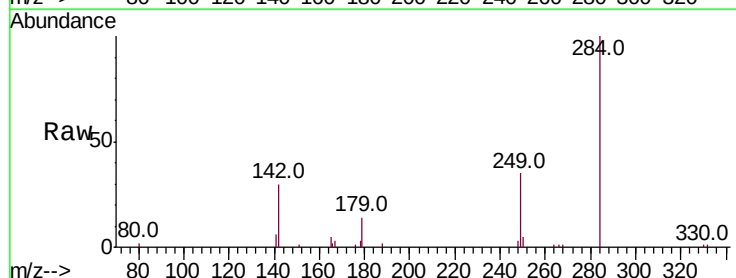
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#20  
Hexachlorobenzene  
Concen: 0.456 ng  
RT: 16.13 min Scan# 1495  
Delta R.T. -0.01 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.4  | 30.5  | 45.7  |
| 249     | 34.1  | 26.7  | 40.1  |

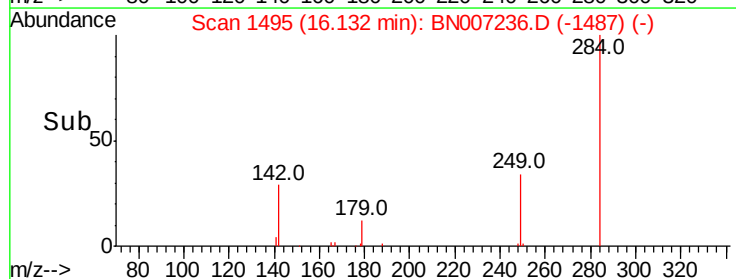
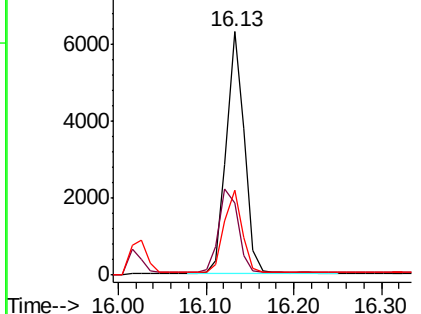


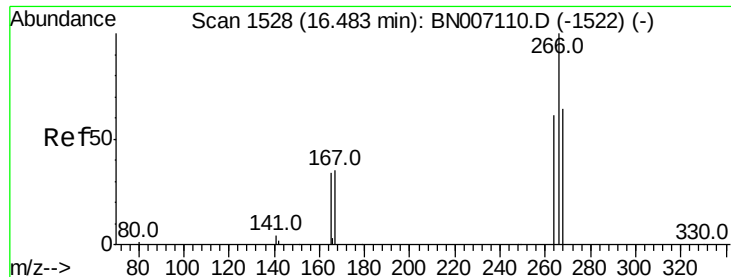
Abundance

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



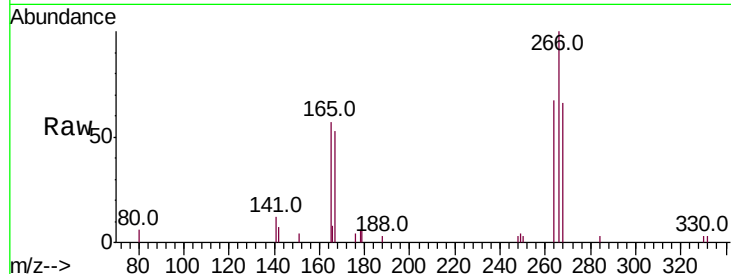


#21  
 Pentachlorophenol  
 Concen: 0.431 ng  
 RT: 16.47 min Scan# 1527  
 Delta R.T. -0.01 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

Instrument :  
 BNA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 67.4  | 52.3  | 78.5  |
| 268     | 65.6  | 51.5  | 77.3  |

Manual Integrations  
 APPROVED

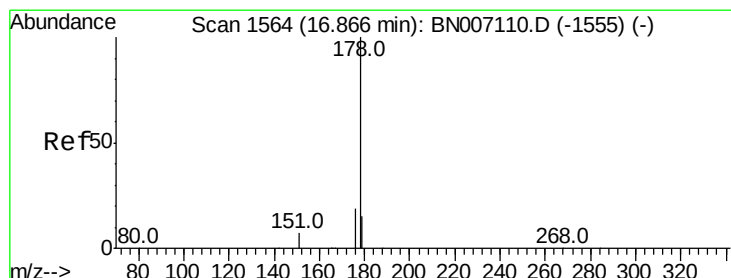
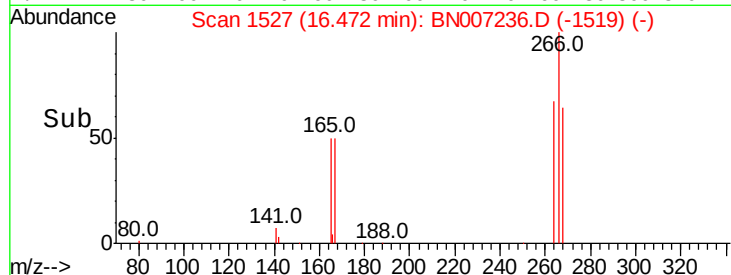
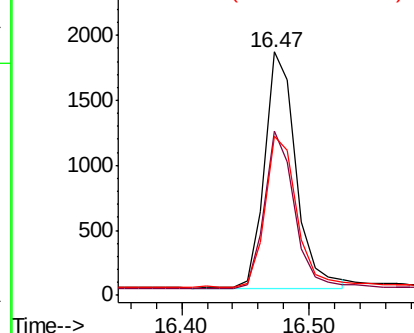


Abundance

Ion 266.00 (265.70 to 266.70): E

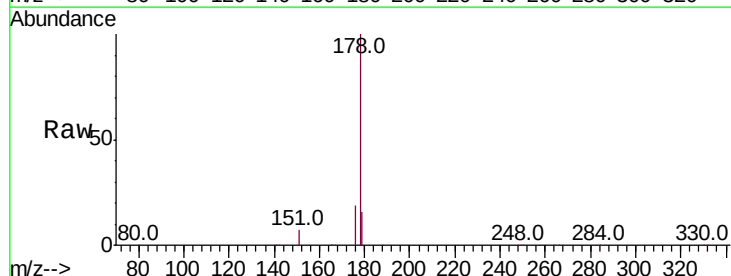
Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#22  
 Phenanthrene  
 Concen: 0.432 ng  
 RT: 16.86 min Scan# 1563  
 Delta R.T. -0.01 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.2  | 22.8  |
| 179     | 15.3  | 12.3  | 18.5  |

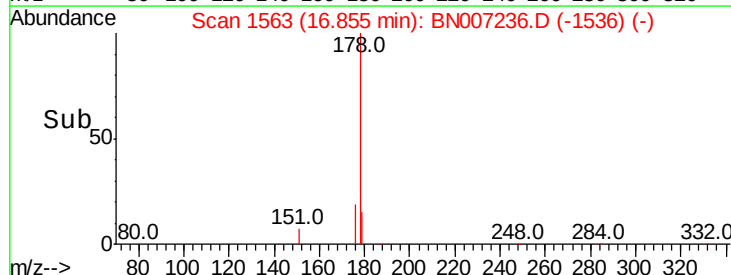
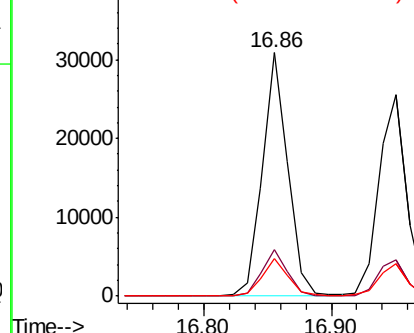


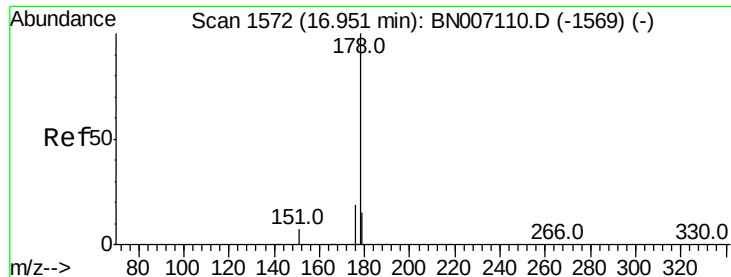
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



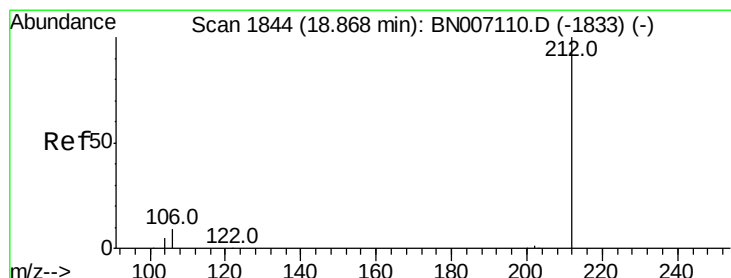
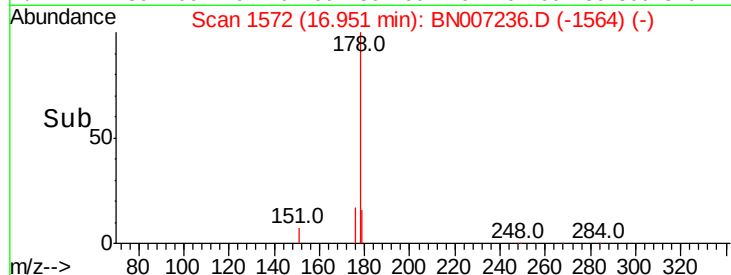
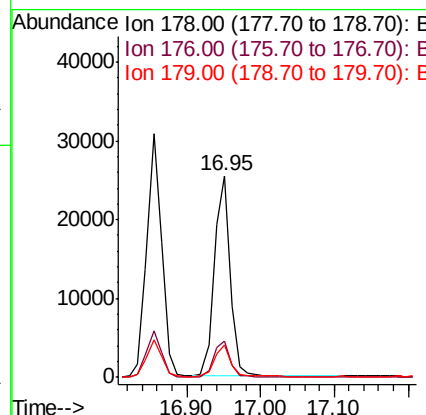
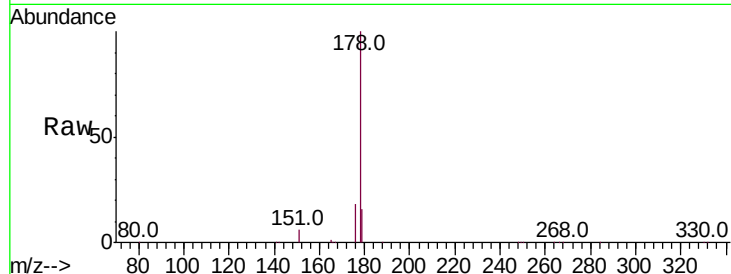


#23  
 Anthracene  
 Concen: 0.427 ng  
 RT: 16.95 min Scan# 1572  
 Delta R.T. -0.01 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

Instrument :  
 BNA\_N  
 ClientSampleId :

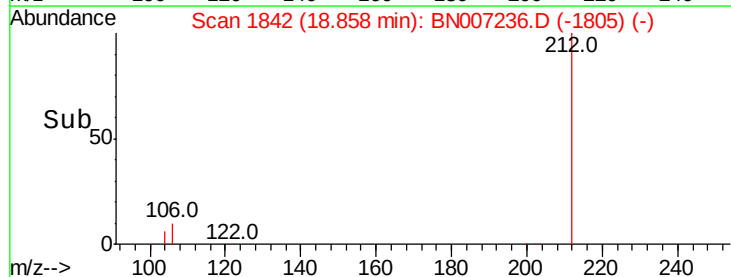
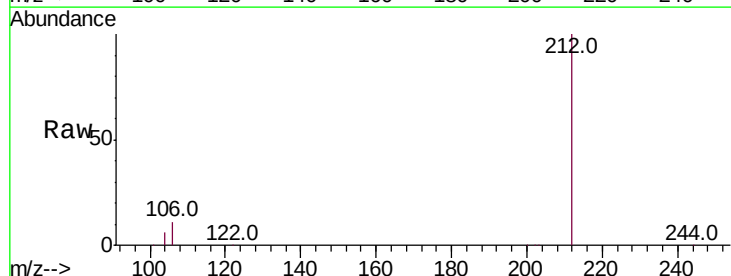
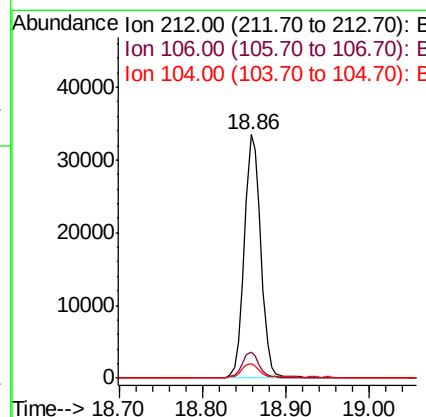
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 14.6  | 21.8  |
| 179     | 15.1  | 12.5  | 18.7  |

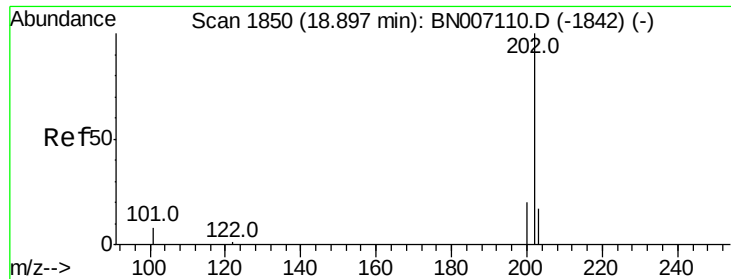
Manual Integrations  
 APPROVED



#24  
 Fluoranthene-d10  
 Concen: 0.392 ng  
 RT: 18.86 min Scan# 1842  
 Delta R.T. -0.02 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 10.4  | 8.2   | 12.2  |
| 104     | 5.8   | 4.5   | 6.7   |





#25

Fluoranthene

Concen: 0.402 ng

RT: 18.89 min Scan# 1848

Delta R.T. -0.02 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

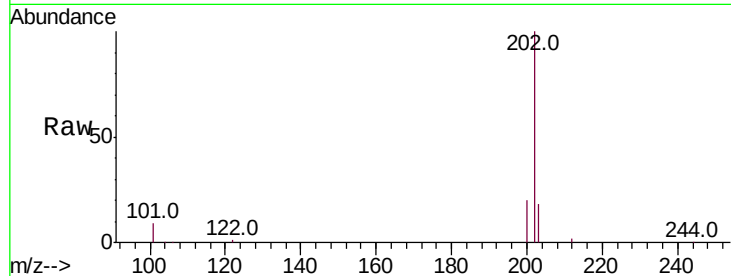
Instrument :

BNA\_N

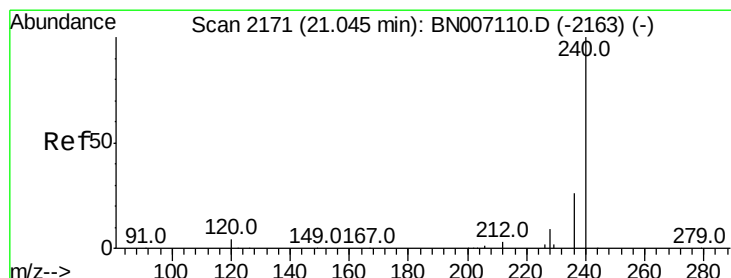
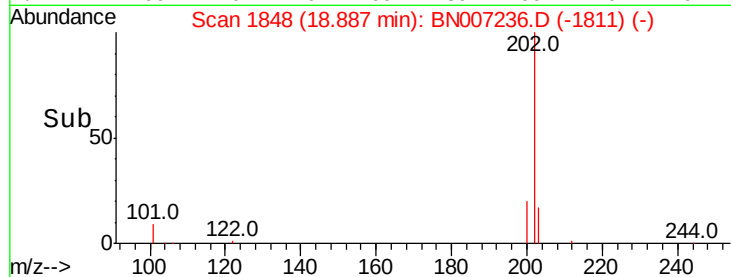
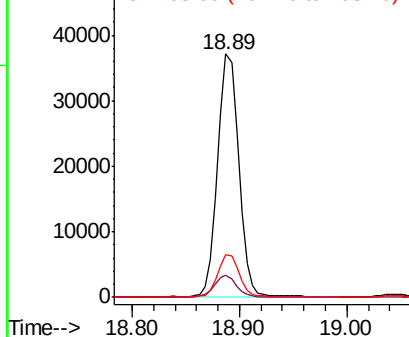
ClientSampled :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 50309 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.0   | 7.0   | 10.4  |
| 203       | 17.4  | 13.8  | 20.8  |

Manual Integrations  
APPROVED



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



#26

Chrysene-d12

Concen: 0.400 ng

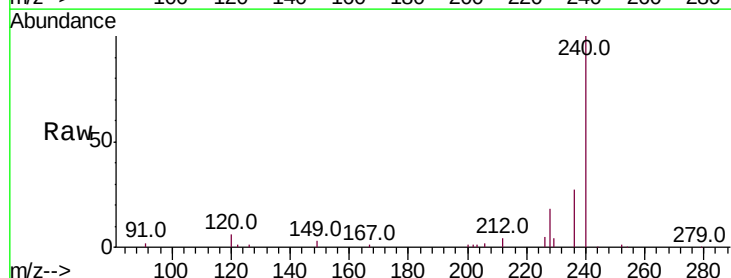
RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

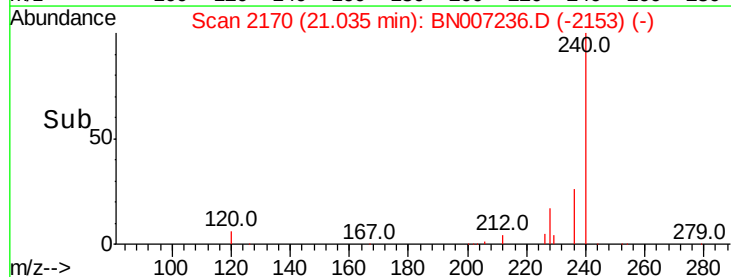
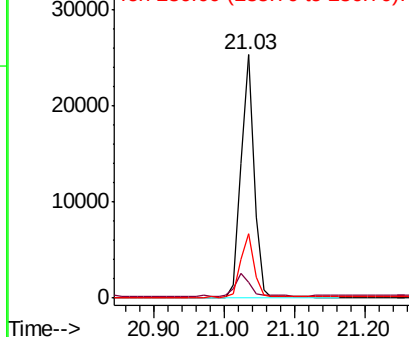
Lab File: BN007236.D

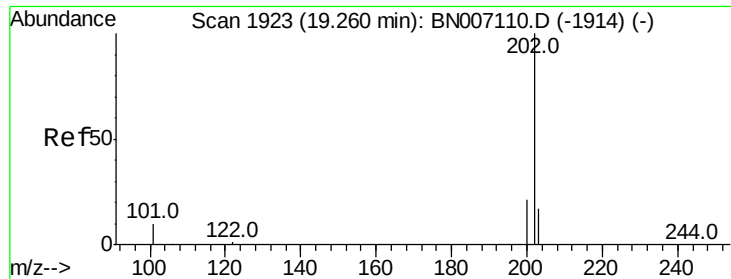
Acq: 17 Aug 2019 00:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 31889 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 6.5   | 4.0   | 6.0#  |
| 236       | 26.5  | 21.3  | 31.9  |



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



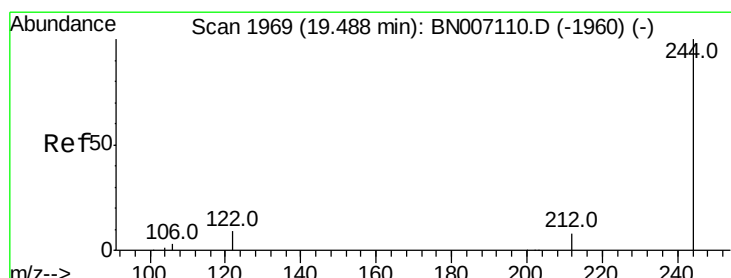
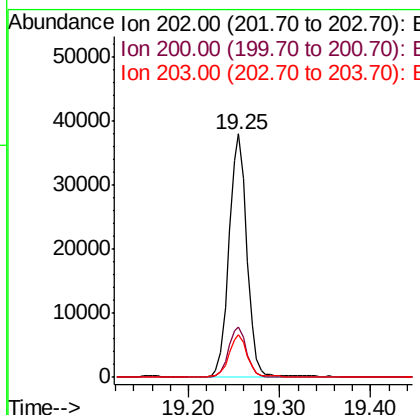
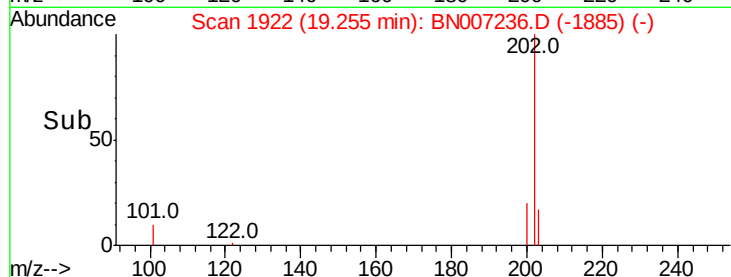
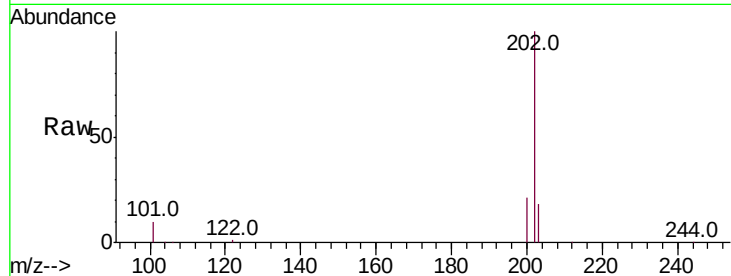


#27  
 Pvrene  
 Concen: 0.459 ng  
 RT: 19.25 min Scan# 1922  
 Delta R.T. -0.02 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

Instrument :  
 BNA\_N  
 ClientSampled :

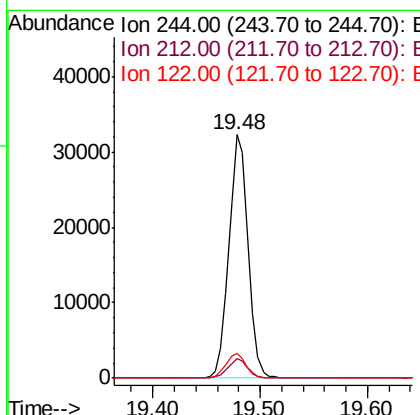
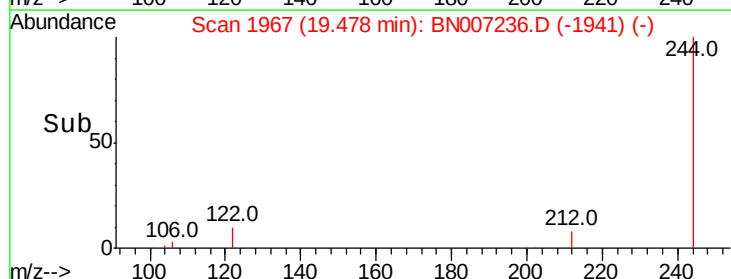
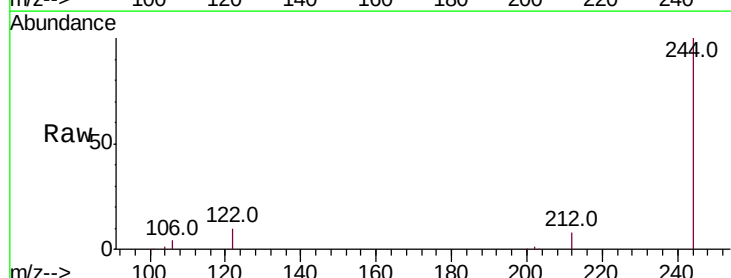
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 16.6  | 24.8  |
| 203     | 17.6  | 14.0  | 21.0  |

Manual Integrations  
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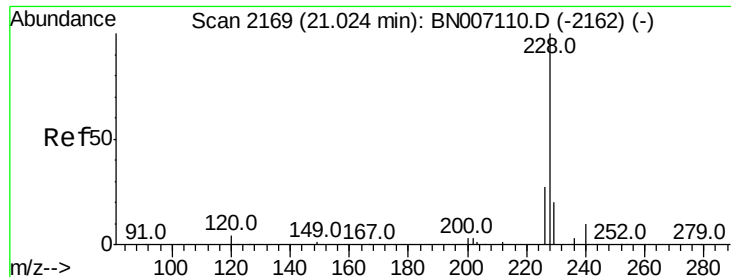


#28  
 Terphenyl-d14  
 Concen: 0.457 ng  
 RT: 19.48 min Scan# 1967  
 Delta R.T. -0.02 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.2   | 6.2   | 9.2   |
| 122     | 10.4  | 7.4   | 11.2  |





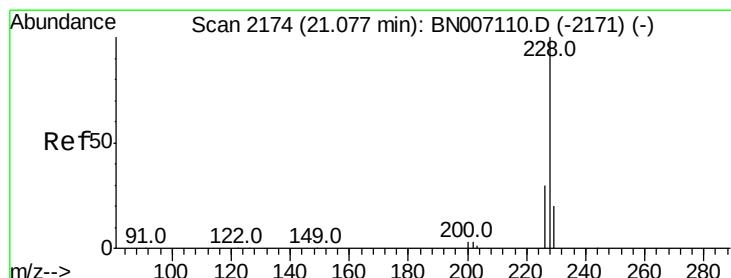
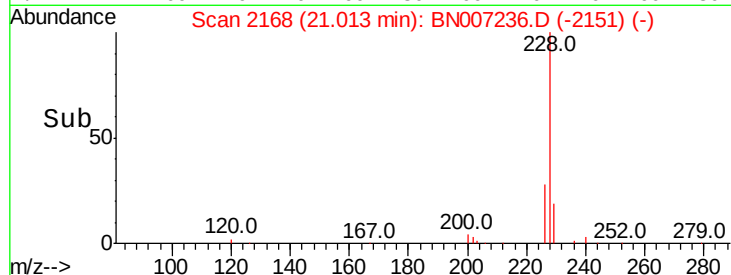
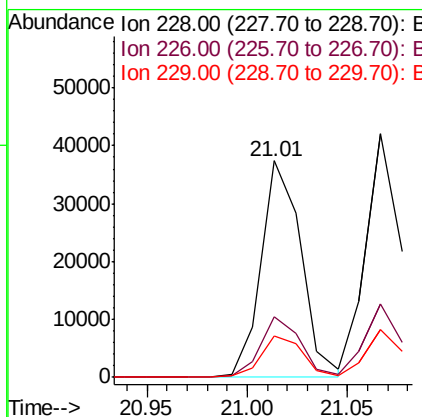
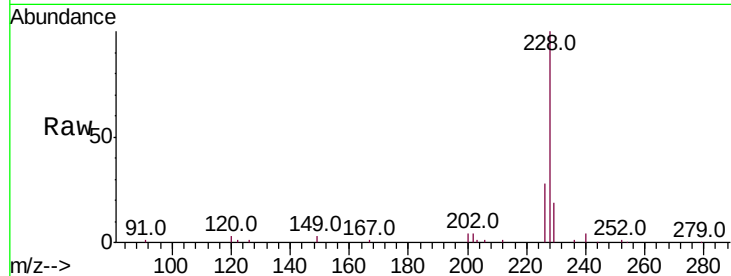


#29  
Benzo(a)anthracene  
Concen: 0.438 ng  
RT: 21.01 min Scan# 2168  
Delta R.T. -0.02 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

Instrument :  
BNA\_N  
ClientSampleId :

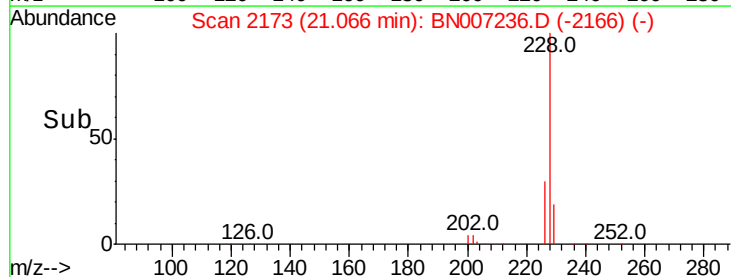
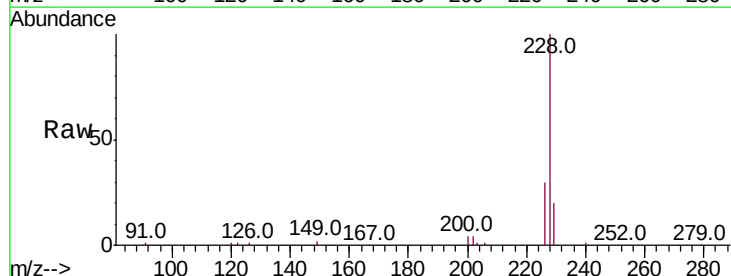
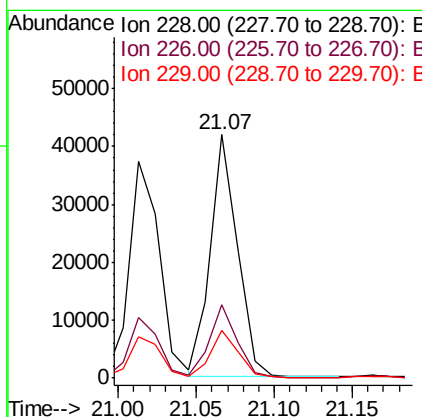
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.9  | 21.8  | 32.6  |
| 229     | 19.2  | 15.6  | 23.4  |

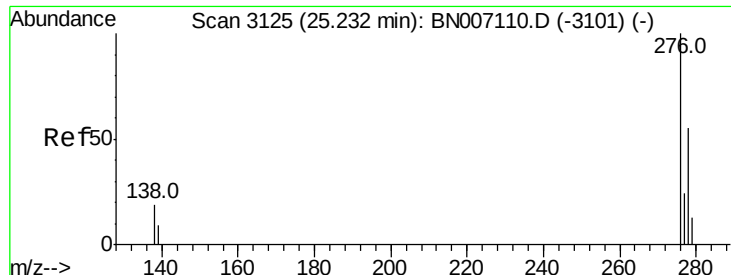
Manual Integrations  
APPROVED



#30  
Chrysene  
Concen: 0.446 ng  
RT: 21.07 min Scan# 2173  
Delta R.T. -0.02 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 23.8  | 35.6  |
| 229     | 19.5  | 15.7  | 23.5  |



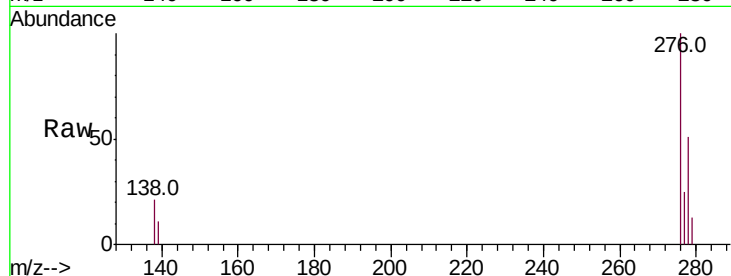


#31  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.477 ng  
 RT: 25.21 min Scan# 3120  
 Delta R.T. -0.04 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

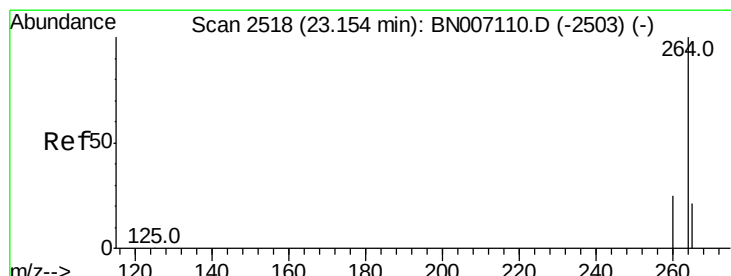
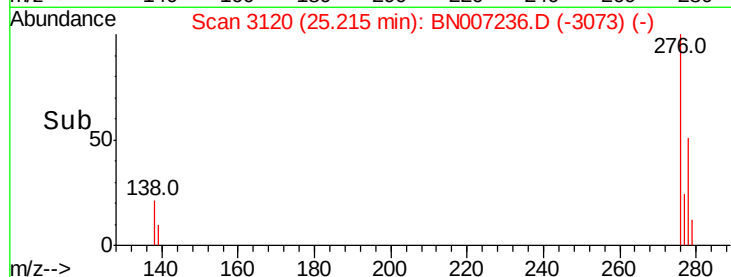
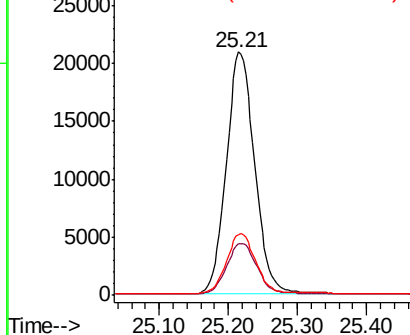
Instrument :  
 BNA\_N  
 ClientSampled :

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 59551 |       |       |
| 138     | 22.1  |       | 16.0  | 24.0  |
| 277     | 25.1  |       | 19.9  | 29.9  |

Manual Integrations  
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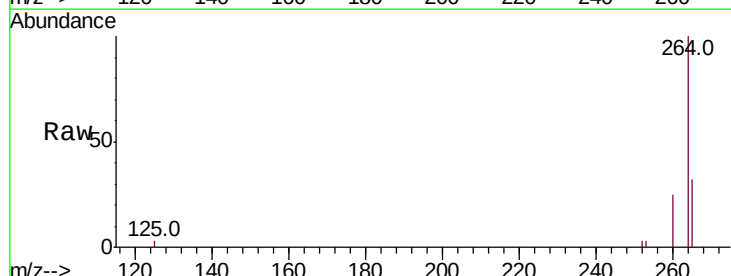


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

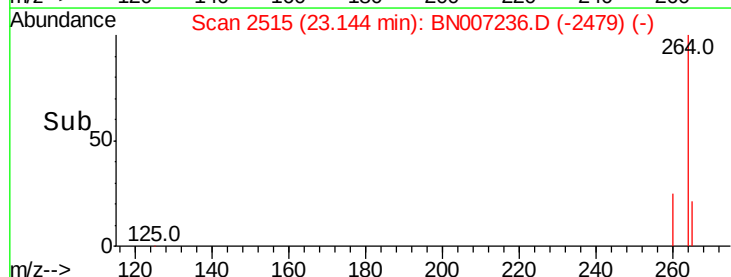
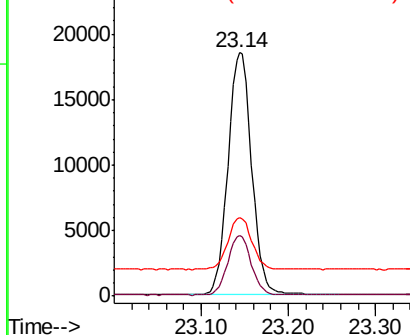


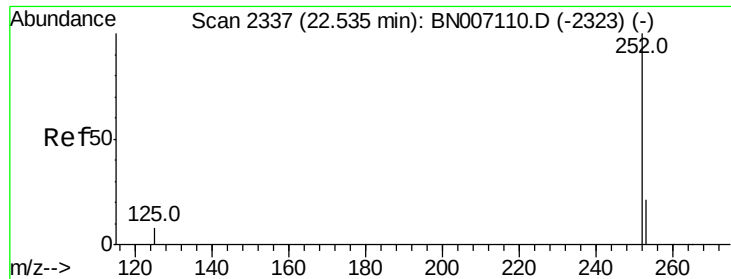
#32  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.14 min Scan# 2515  
 Delta R.T. -0.03 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 264     | 100   | 34722 |       |       |
| 260     | 25.0  |       | 19.8  | 29.8  |
| 265     | 32.2  |       | 26.2  | 39.4  |



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



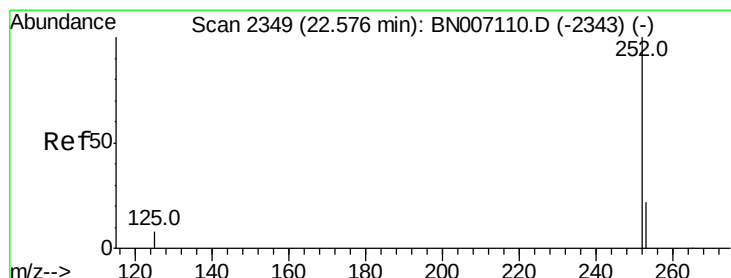
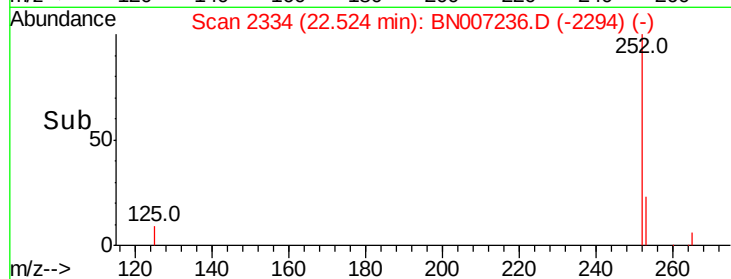
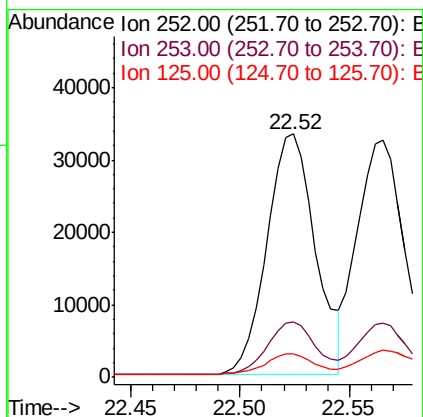
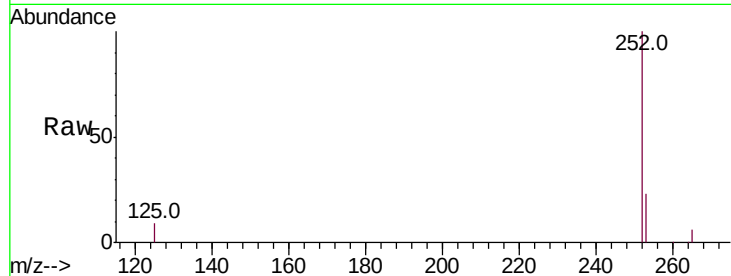


#33  
Benzo(b)fluoranthene  
Concen: 0.433 ng  
RT: 22.52 min Scan# 2334  
Delta R.T. -0.02 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

Instrument :  
BNA\_N  
ClientSampleId :

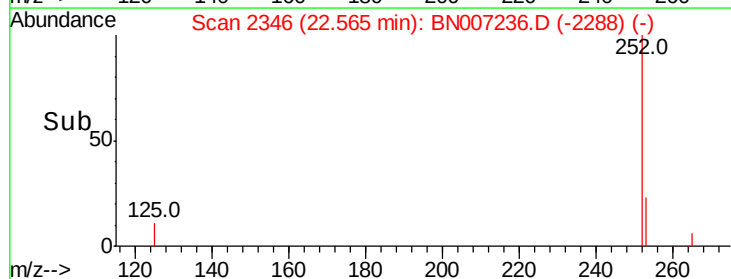
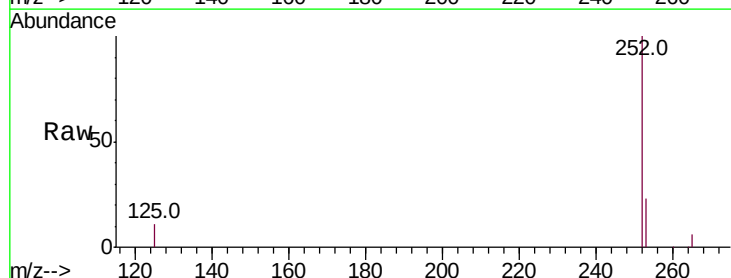
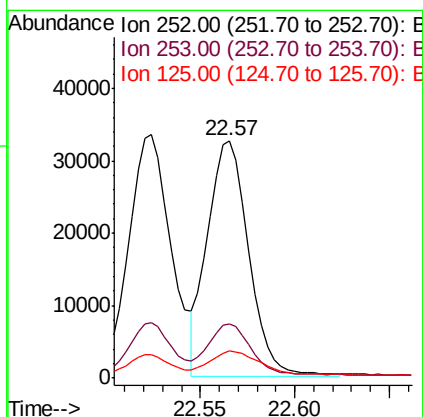
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.2  | 27.2  |
| 125     | 9.4   | 7.4   | 11.0  |

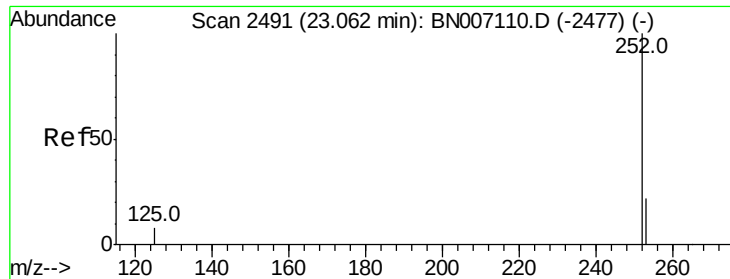
Manual Integrations  
APPROVED



#34  
Benzo(k)fluoranthene  
Concen: 0.424 ng m  
RT: 22.57 min Scan# 2346  
Delta R.T. -0.02 min  
Lab File: BN007236.D  
Acq: 17 Aug 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.1  | 27.1  |
| 125     | 11.3  | 7.4   | 11.0  |





#35

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.05 min Scan# 2489

Delta R.T. -0.03 min

Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

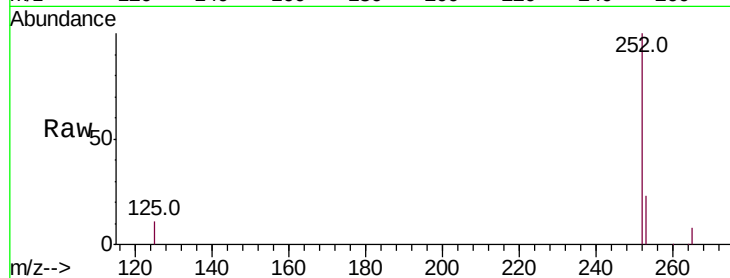
Instrument :

BNA\_N

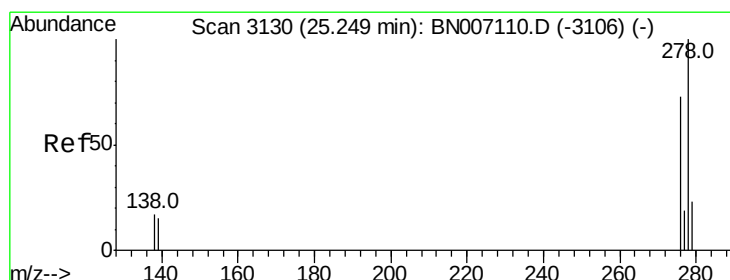
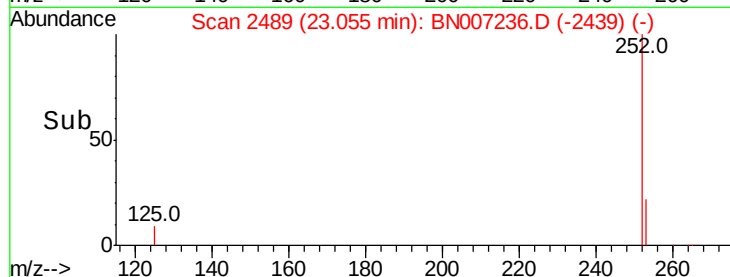
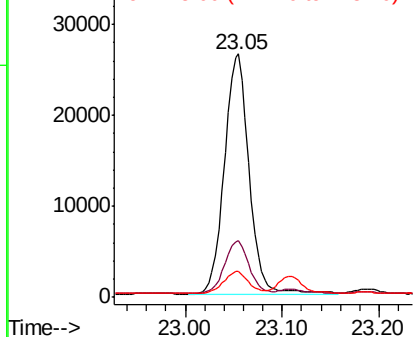
ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 46836 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 18.5  | 27.7  |
| 125       | 10.5  | 8.2   | 12.4  |

Manual Integrations  
APPROVED



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



#36

Dibenzo(a,h)anthracene

Concen: 0.452 ng

RT: 25.23 min Scan# 3125

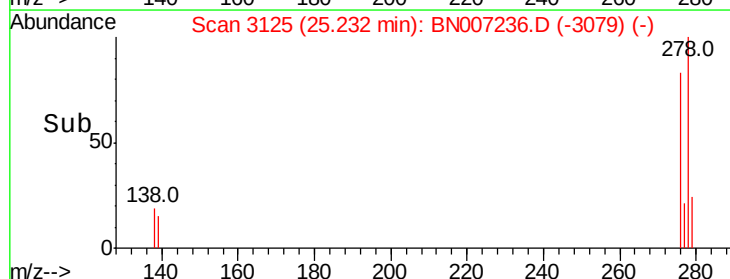
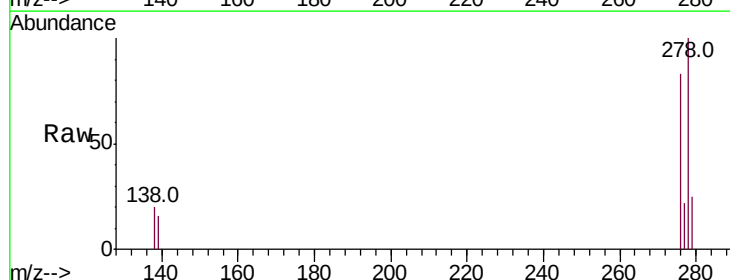
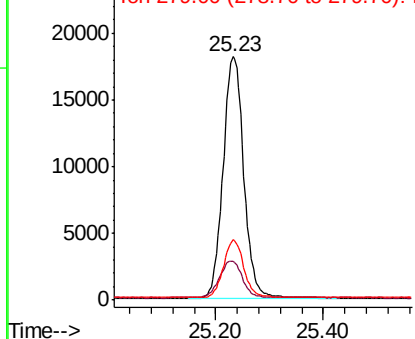
Delta R.T. -0.04 min

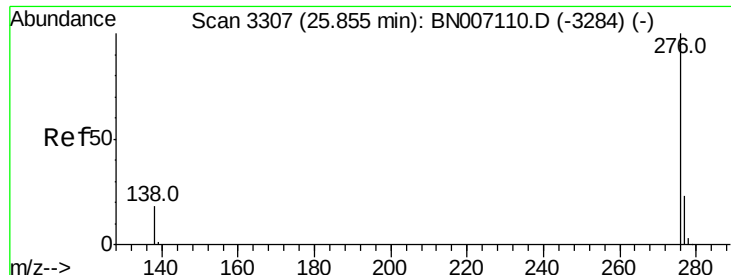
Lab File: BN007236.D

Acq: 17 Aug 2019 00:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 48632 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 16.2  | 11.3  | 16.9  |
| 279       | 24.7  | 19.3  | 28.9  |

Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



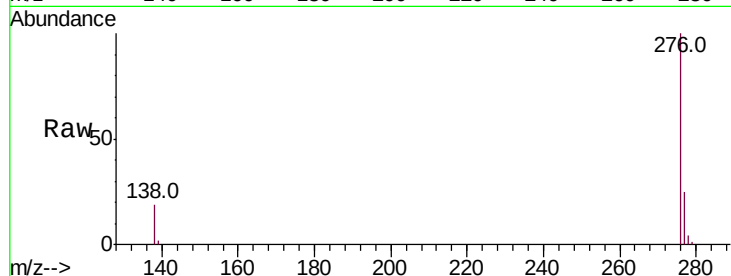


#37  
 Benzo(a,h,i)perylene  
 Concen: 0.427 ng  
 RT: 25.84 min Scan# 3303  
 Delta R.T. -0.04 min  
 Lab File: BN007236.D  
 Acq: 17 Aug 2019 00:14

Instrument :  
 BNA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.5  | 19.8  | 29.8  |
| 138     | 19.3  | 14.6  | 22.0  |

Manual Integrations  
 APPROVED



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

