

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032219\  
 Data File : BN004903.D  
 Acq On : 23 Mar 2019 02:06  
 Operator : JU/SJ  
 Sample : K1817-08  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EXT-027-SW007-030719

Manual Integrations  
 APPROVED

Sohil  
 3/25/2019 8:57:19 AM

Quant Time: Mar 23 03:39:43 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 3010     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.48 | 136  | 12867    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.33 | 164  | 7564     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.08 | 188  | 17780    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.28 | 240  | 23485    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.53 | 264  | 24166    | 0.40 | ng    | -0.02    |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.28  | 112 | 3242  | 0.40 | ng | 0.00  |
| 5) Phenol-d6                | 6.86  | 99  | 4171  | 0.41 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.86  | 82  | 3024  | 0.36 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.06 | 152 | 7378  | 0.33 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.84 | 330 | 1515  | 0.29 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.95 | 172 | 10762 | 0.34 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.12 | 212 | 18763 | 0.32 | ng | -0.02 |
| 29) Terphenyl-d14           | 19.72 | 244 | 14492 | 0.30 | ng | -0.01 |

#### Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 9) Naphthalene                 | 10.53 | 128 | 25345   | 0.702  | ng | 98     |
| 12) 2-Methylnaphthalene        | 12.14 | 142 | 16975   | 0.633  | ng | 99     |
| 16) Acenaphthylene             | 14.05 | 152 | 23822   | 0.611  | ng | # 97   |
| 17) Acenaphthene               | 14.39 | 154 | 50176   | 1.966  | ng | 100    |
| 18) Fluorene                   | 15.38 | 166 | 60306   | 1.693  | ng | # 98   |
| 22) Pentachlorophenol          | 16.76 | 266 | 179m    | 0.069  | ng |        |
| 23) Phenanthrene               | 17.12 | 178 | 992929  | 17.295 | ng | 99     |
| 24) Anthracene                 | 17.22 | 178 | 234411  | 4.571  | ng | # 93   |
| 26) Fluoranthene               | 19.15 | 202 | 1238779 | 16.790 | ng | 99     |
| 28) Pvrene                     | 19.51 | 202 | 1043887 | 14.578 | ng | # 93   |
| 30) Benzo(a)anthracene         | 21.26 | 228 | 751978  | 9.763  | ng | 98     |
| 31) Chrysene                   | 21.31 | 228 | 573588  | 7.071  | ng | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 1629    | 0.053  | ng | # 86   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.79 | 276 | 234546  | 1.998  | ng | 99     |
| 35) Benzo(b)fluoranthene       | 22.85 | 252 | 664773  | 7.604  | ng | 99     |
| 36) Benzo(k)fluoranthene       | 22.89 | 252 | 259029m | 3.012  | ng |        |
| 37) Benzo(a)pvrene             | 23.43 | 252 | 491987  | 6.135  | ng | 98     |
| 38) Dibenzo(a,h)anthracene     | 25.79 | 278 | 77336   | 0.833  | ng | # 90   |
| 39) Benzo(g,h,i)perylene       | 26.49 | 276 | 191596  | 2.025  | ng | 99     |

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

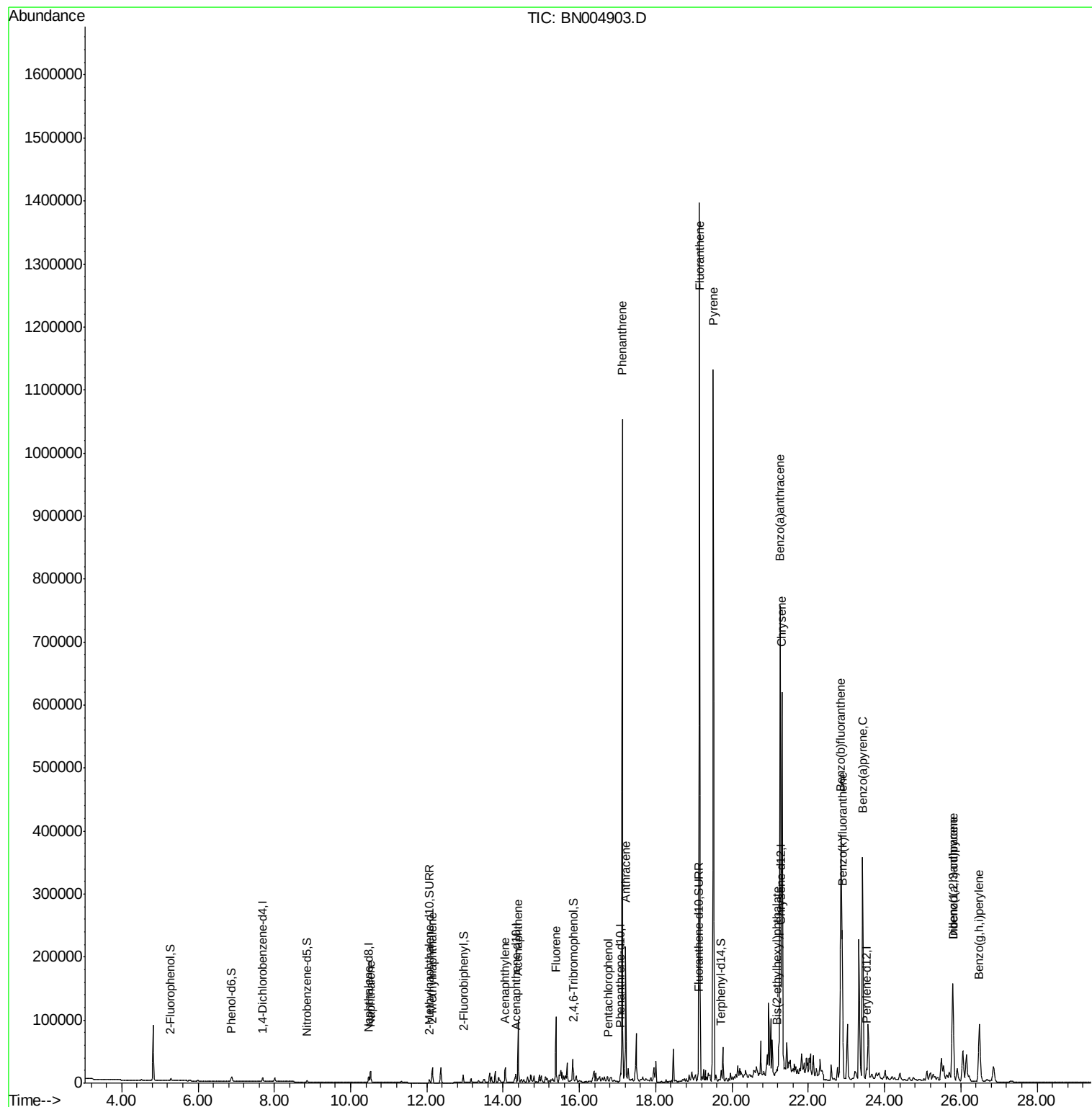
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032219\  
Data File : BN004903.D  
Acq On : 23 Mar 2019 02:06  
Operator : JU/SJ  
Sample : K1817-08  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

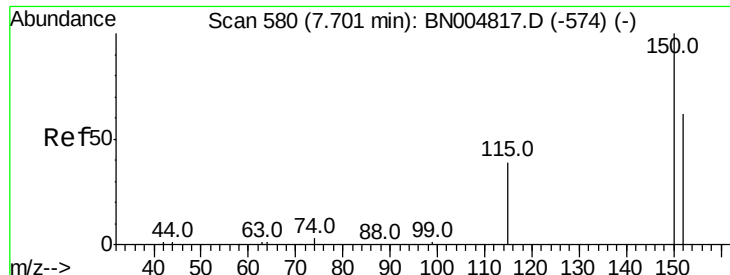
Instrument :  
BNA\_N  
ClientSampleId :  
EXT-027-SW007-030719

Quant Time: Mar 23 03:39:43 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 20 16:06:20 2019  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM





#1

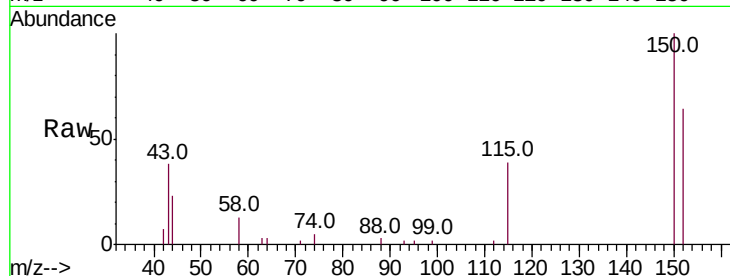
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.69 min Scan# 579  
Delta R.T. -0.01 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

Instrument :  
BNA\_N  
ClientSampleId :  
EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 126.2 | 189.4 |
| 115     | 60.9  | 52.6  | 79.0  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM

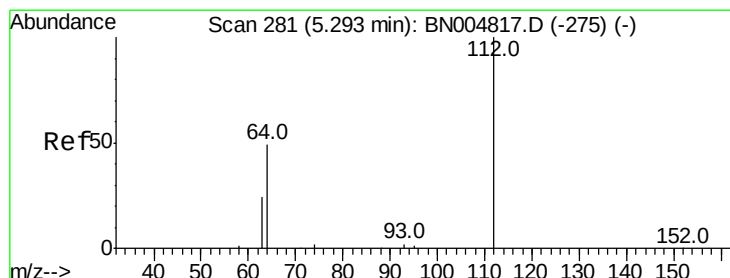
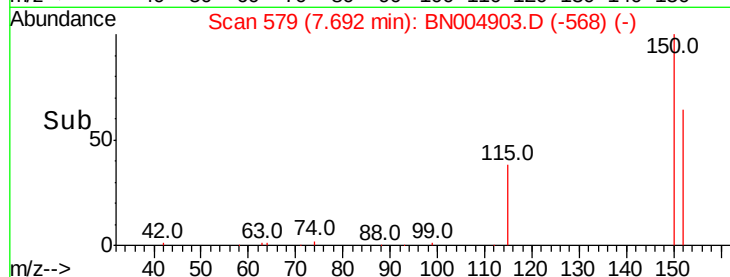
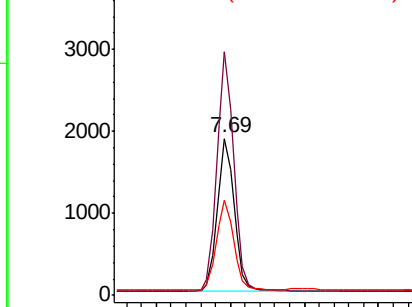


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

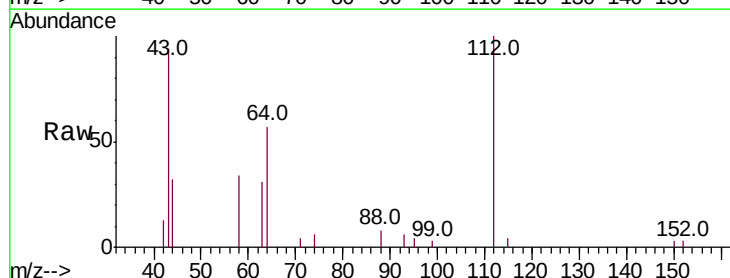
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.396 ng  
RT: 5.28 min Scan# 280  
Delta R.T. -0.01 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.8  | 40.0  | 60.0  |
| 63      | 26.7  | 20.2  | 30.2  |

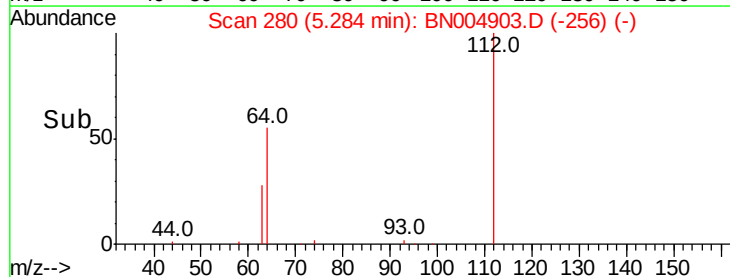
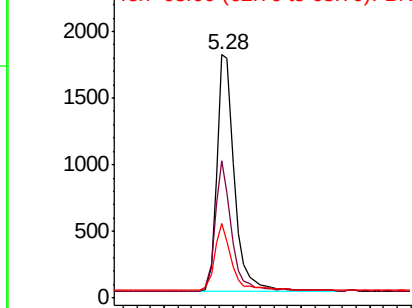


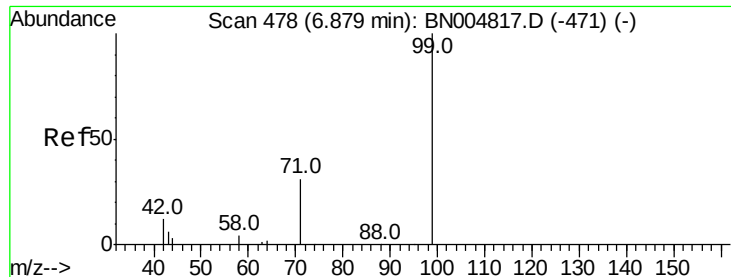
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.409 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

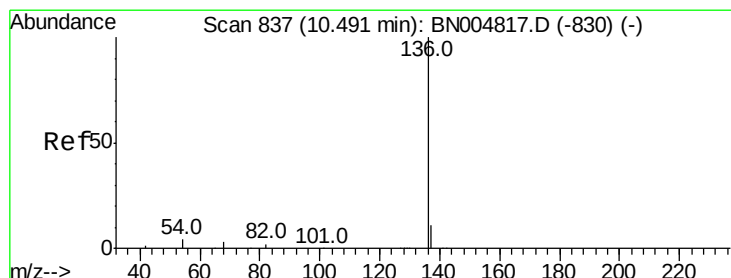
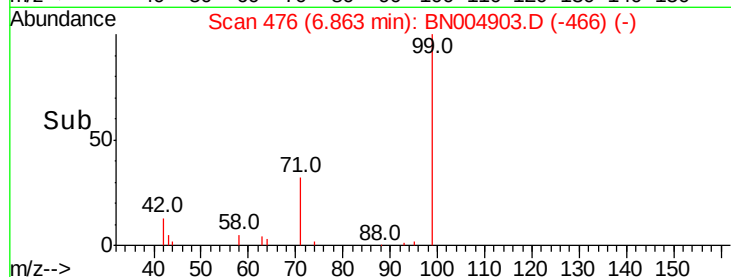
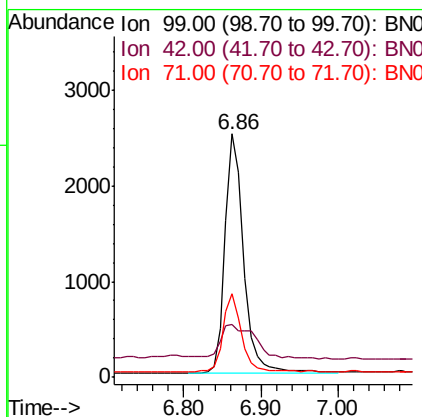
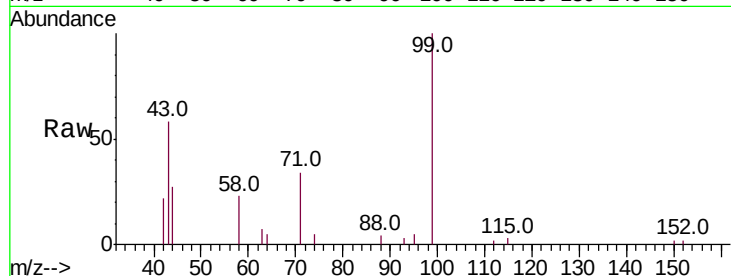
ClientSampleId :

EXT-027-SW007-030719

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 4171  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 26.5  | 12.7  | 19.1# |
| 71       | 32.0  | 26.6  | 40.0  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



#7

Naphthalene-d8

Concen: 0.400 ng

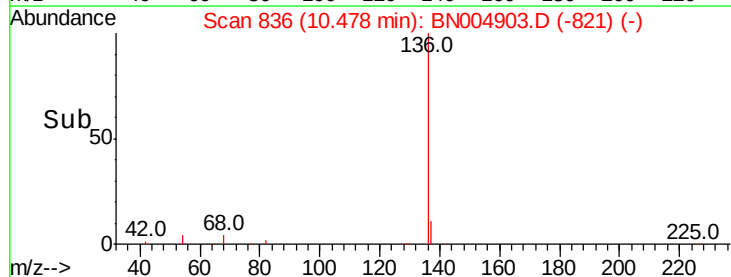
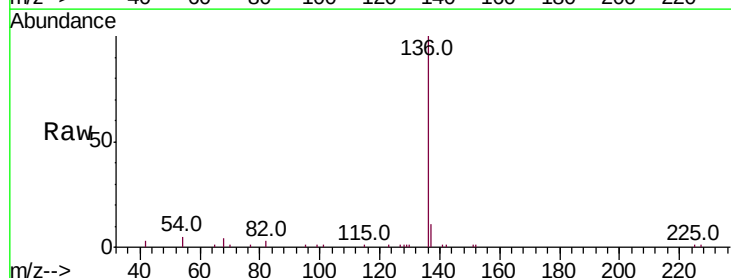
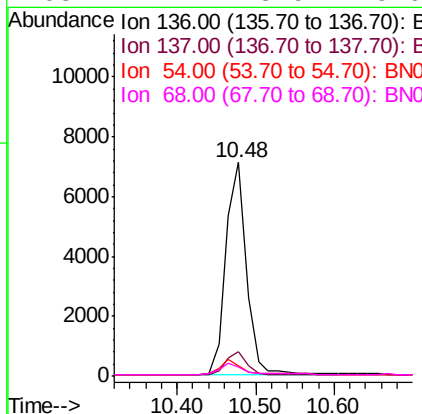
RT: 10.48 min Scan# 836

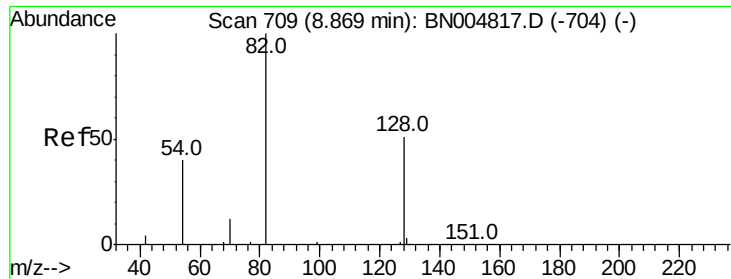
Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 12867 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.4  | 9.6   | 14.4  |
| 54       | 4.9   | 4.2   | 6.2   |
| 68       | 4.4   | 3.9   | 5.9   |





#8

Nitrobenzene-d5

Concen: 0.355 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

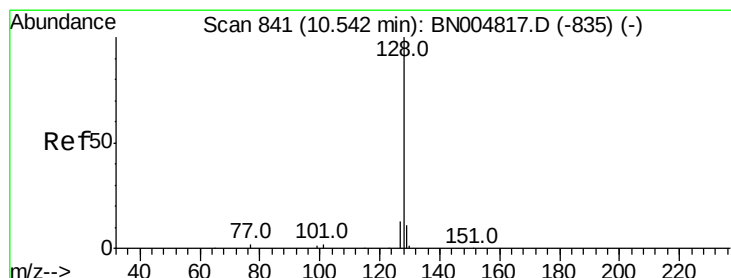
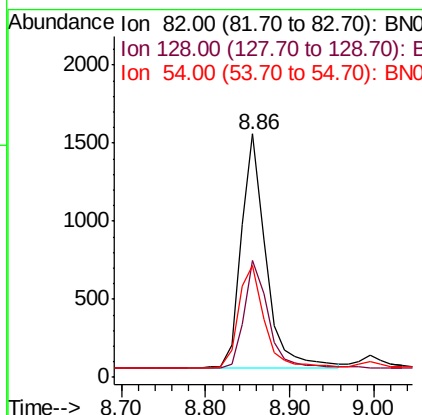
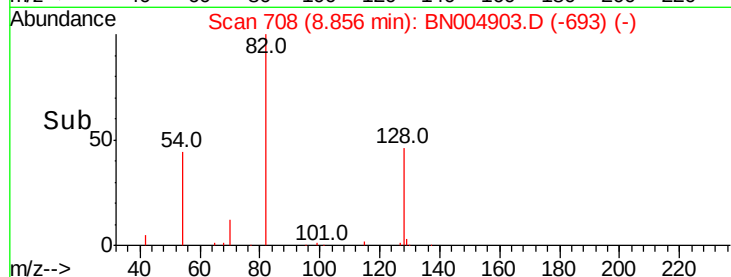
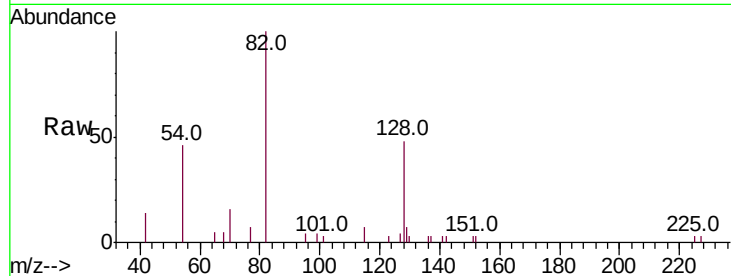
ClientSampleId :

EXT-027-SW007-030719

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 82    | Resp: | 3024 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 48.2  | 43.0  | 64.6 |
| 54        | 46.1  | 35.3  | 52.9 |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



#9

Naphthalene

Concen: 0.702 ng

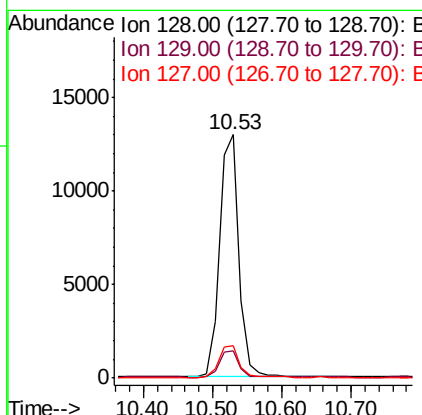
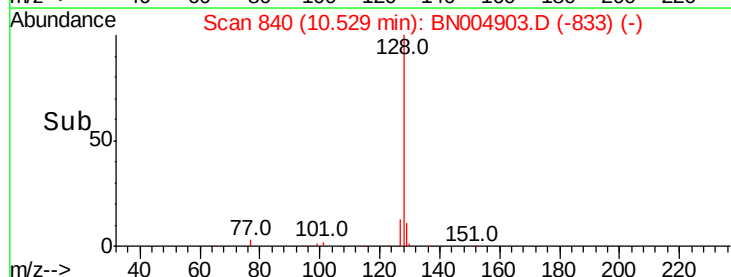
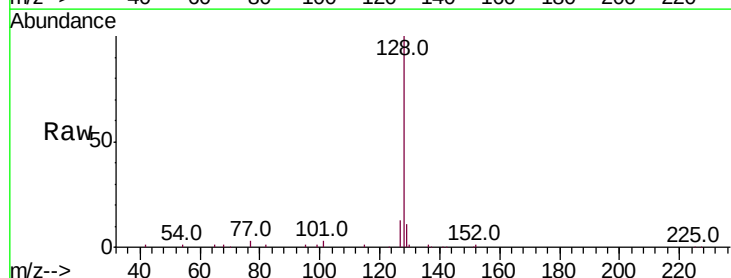
RT: 10.53 min Scan# 840

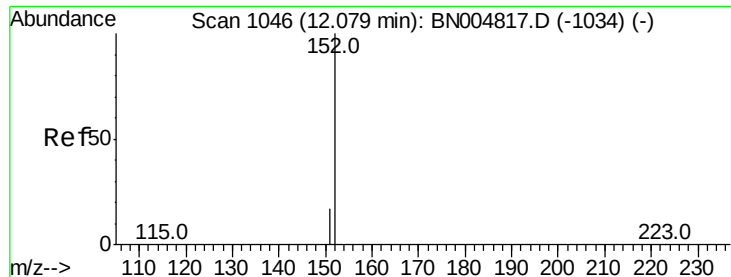
Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 25345 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.4  | 9.9   | 14.9  |
| 127       | 13.3  | 11.3  | 16.9  |





#11

2-Methylnaphthalene-d10

Concen: 0.329 ng

RT: 12.06 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

ClientSampleId :

EXT-027-SW007-030719

Tot Ion:152 Resp: 7378

Ion Ratio Lower Upper

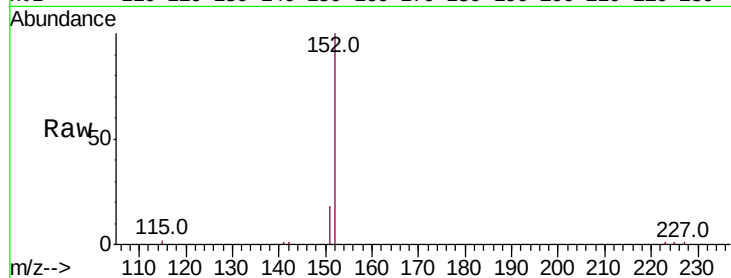
152 100

151 19.4 15.5 23.3

Manual Integrations  
APPROVED

Sohil

3/25/2019 8:57:19 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.06

5000

4000

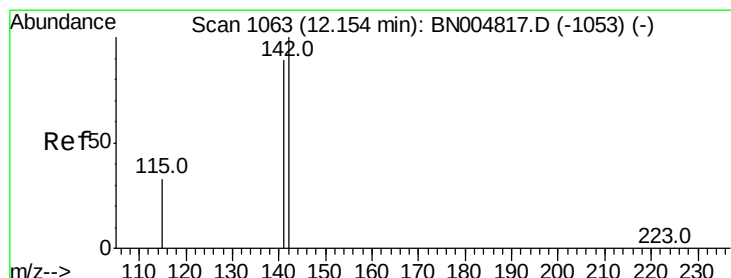
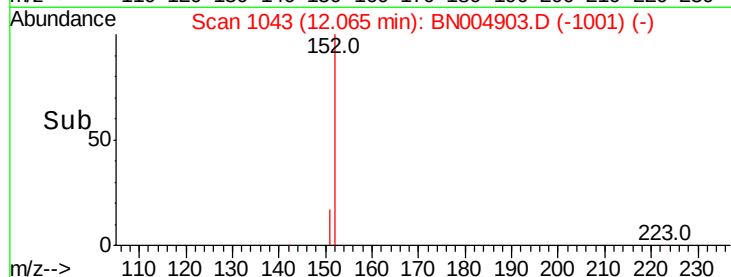
3000

2000

1000

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.633 ng

RT: 12.14 min Scan# 1060

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

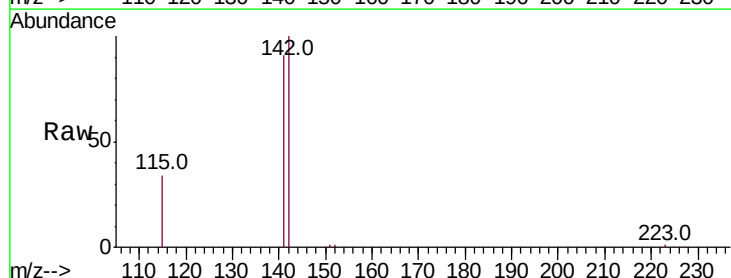
Tgt Ion:142 Resp: 16975

Ion Ratio Lower Upper

142 100

141 90.5 71.4 107.2

115 34.4 27.5 41.3



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

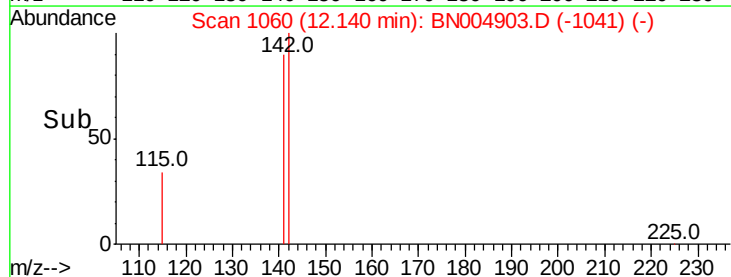
12.14

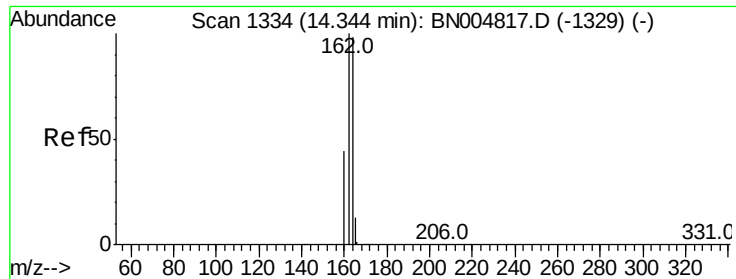
10000

5000

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

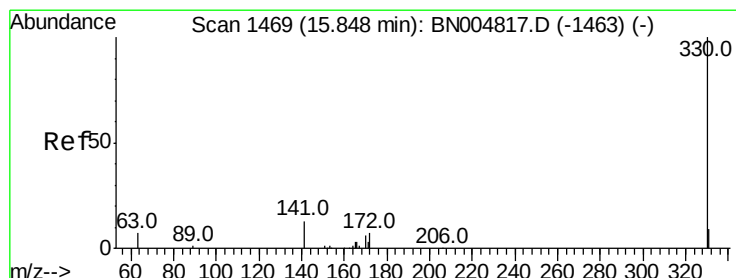
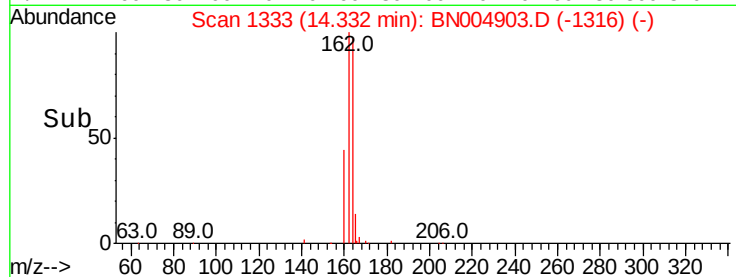
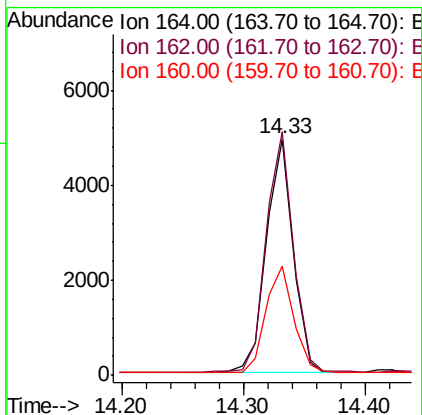
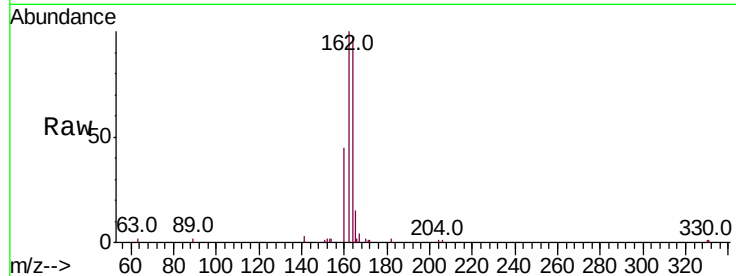
ClientSampleId :

EXT-027-SW007-030719

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 7564  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 103.1 | 81.9  | 122.9 |
| 160       | 46.1  | 36.6  | 54.8  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



#14

2,4,6-Tribromophenol

Concen: 0.290 ng

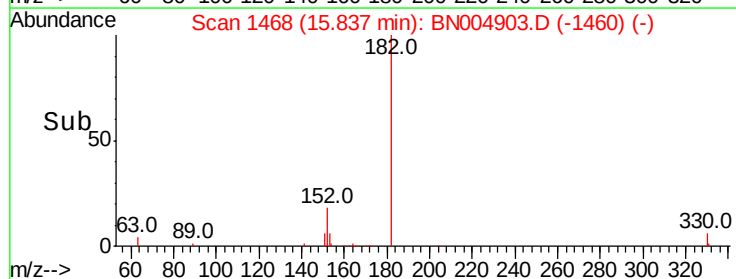
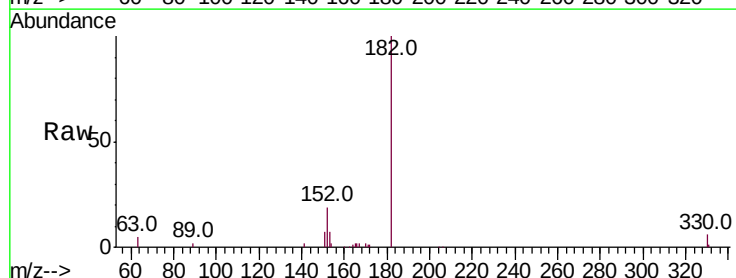
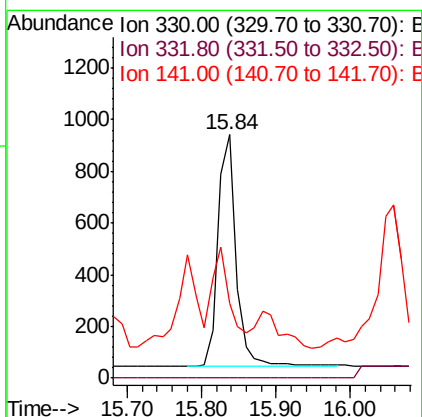
RT: 15.84 min Scan# 1468

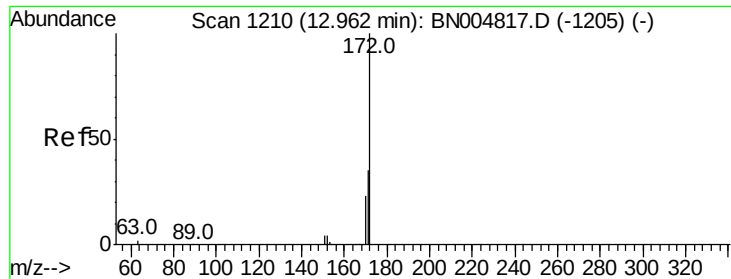
Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 1515  |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 0.0   | 0.0   | 0.0   |
| 141       | 33.4  | 20.9  | 31.3# |





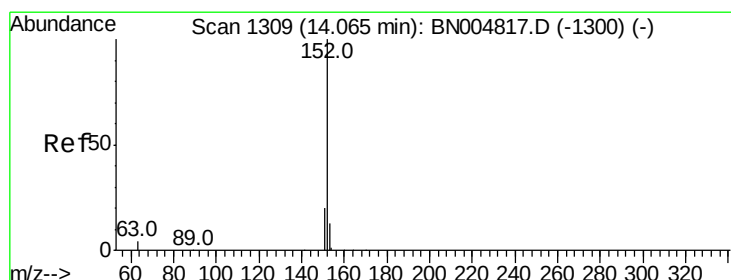
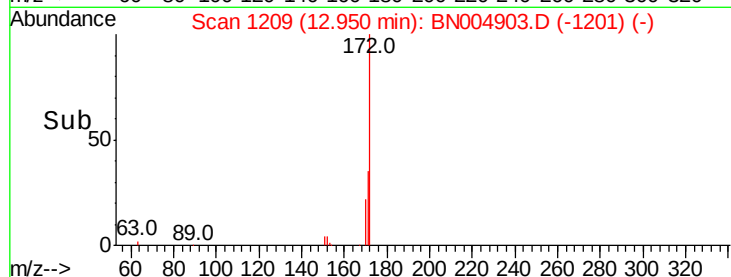
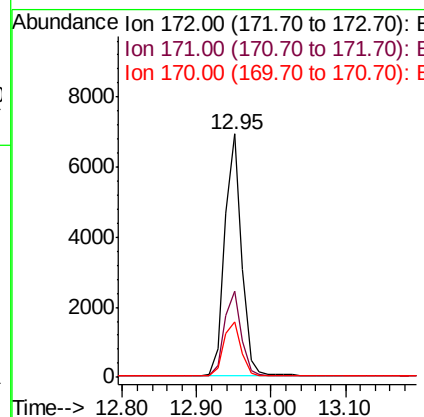
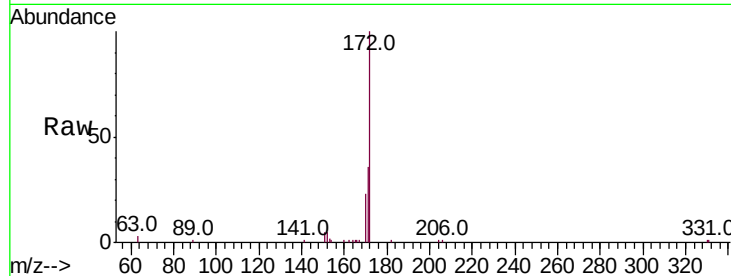
#15  
2-Fluorobiphenyl  
Concen: 0.344 ng  
RT: 12.95 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

Instrument :  
BNA\_N  
ClientSampleId :  
EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 28.7  | 43.1  |
| 170     | 23.0  | 18.7  | 28.1  |

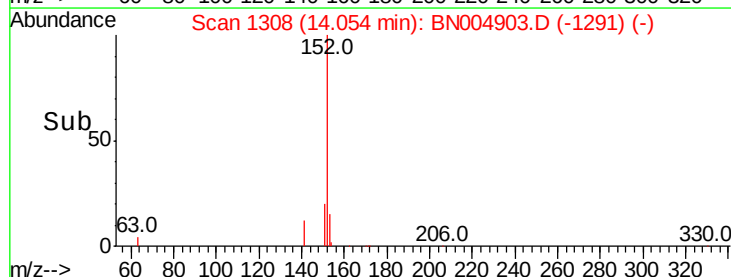
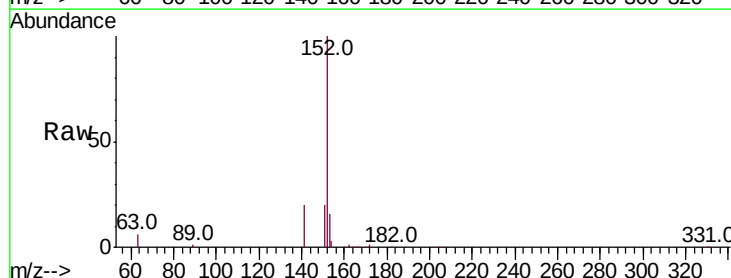
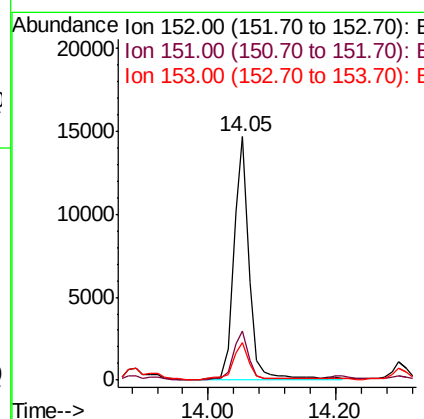
Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM

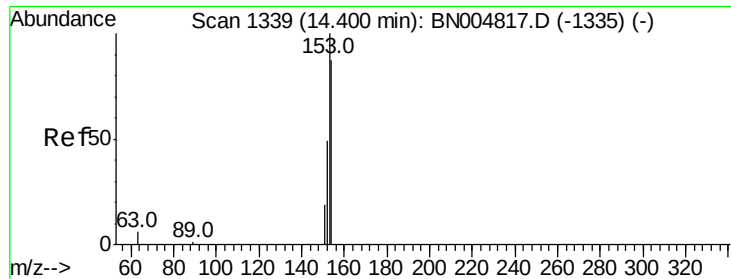


#16  
Acenaphthylene  
Concen: 0.611 ng  
RT: 14.05 min Scan# 1308  
Delta R.T. -0.01 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.1  | 24.1  |
| 153     | 15.8  | 10.5  | 15.7# |







#17

Acenaphthene

Concen: 1.966 ng

RT: 14.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

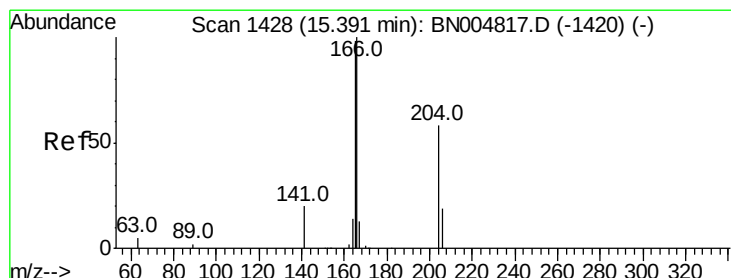
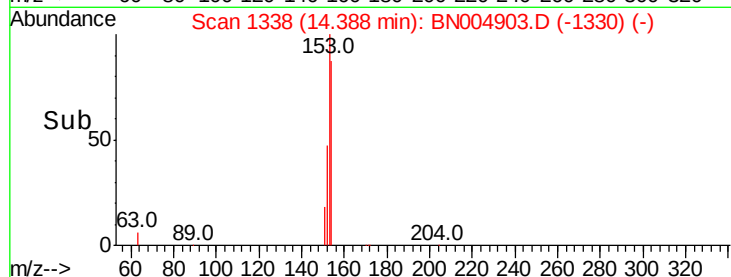
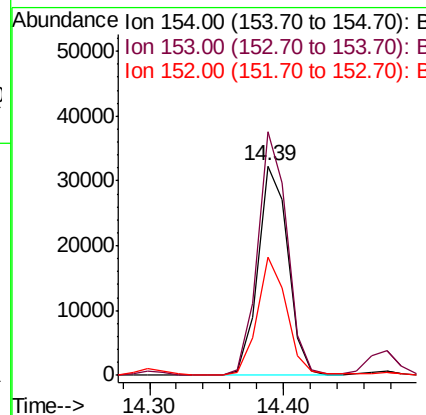
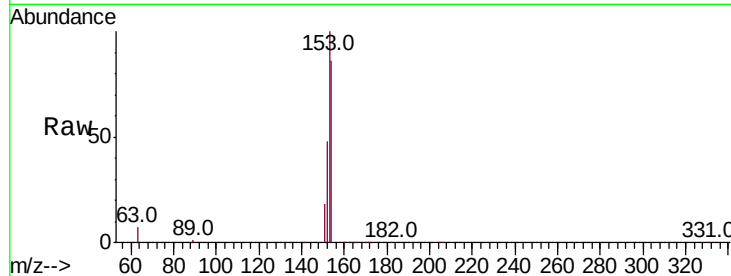
ClientSampleId :

EXT-027-SW007-030719

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 50176 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 114.7 | 91.4  | 137.2 |
| 152       | 55.1  | 44.2  | 66.2  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



#18

Fluorene

Concen: 1.693 ng

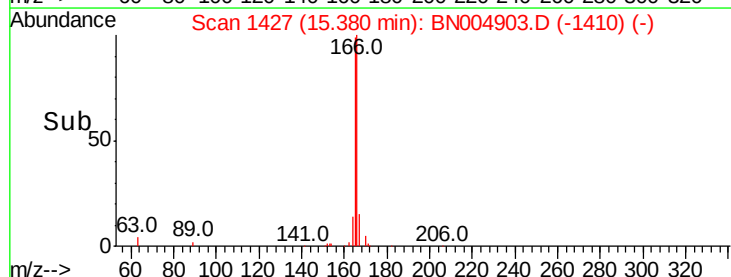
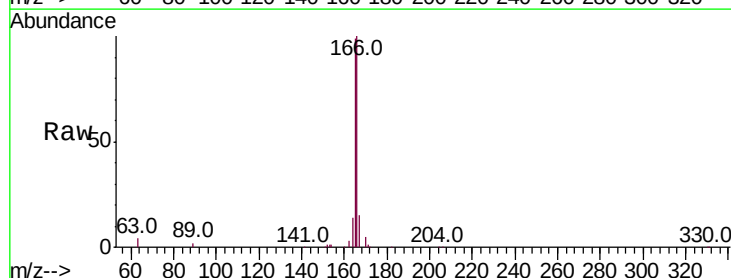
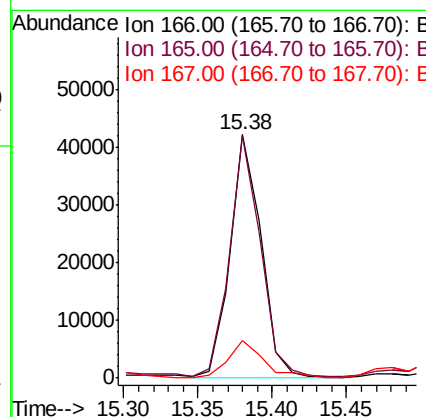
RT: 15.38 min Scan# 1427

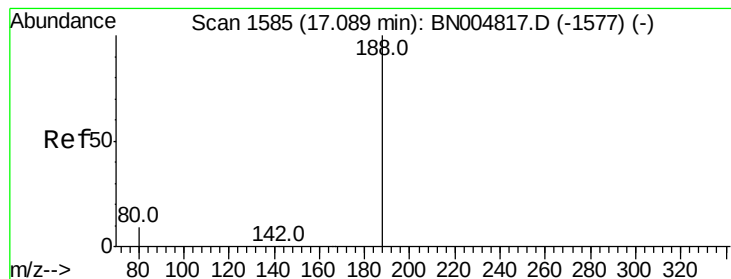
Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 60306 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.1  | 78.2  | 117.4 |
| 167       | 17.2  | 11.0  | 16.4# |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

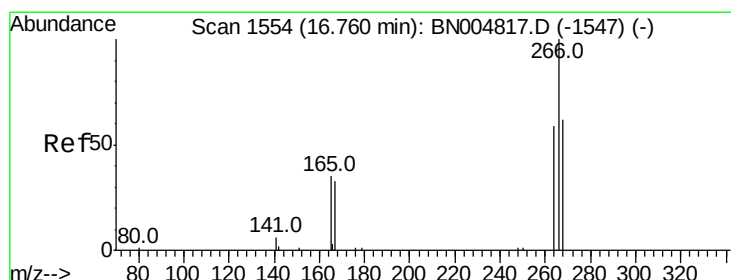
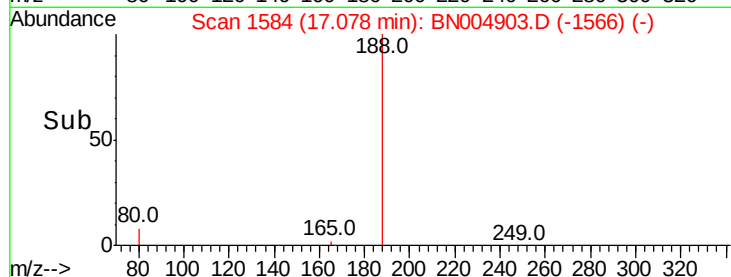
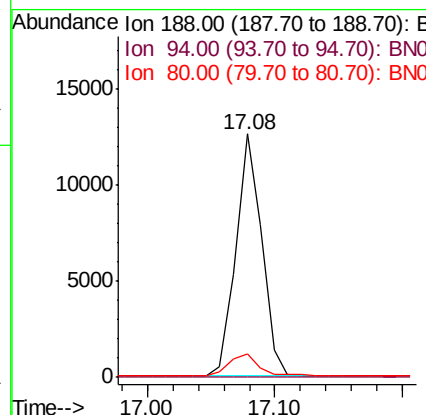
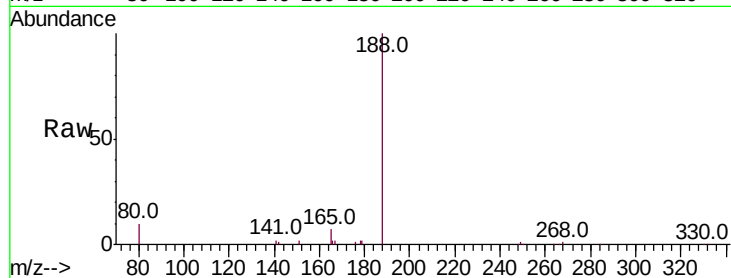
ClientSampleId :

EXT-027-SW007-030719

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 17780 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 9.7   | 7.4   | 11.2  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



#22

Pentachlorophenol

Concen: 0.069 ng m

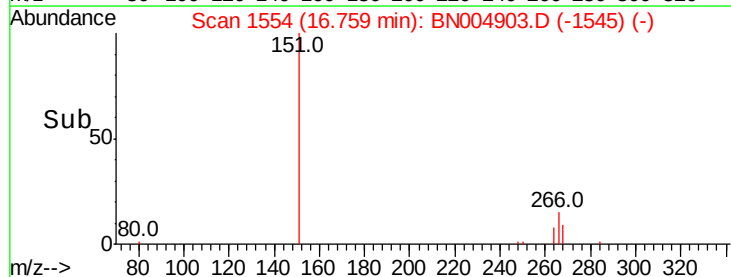
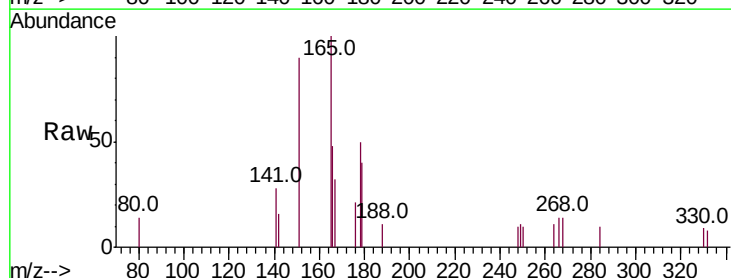
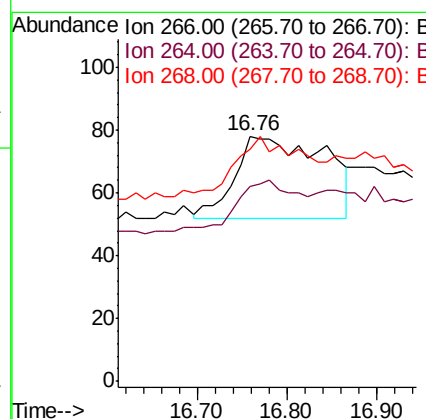
RT: 16.76 min Scan# 1554

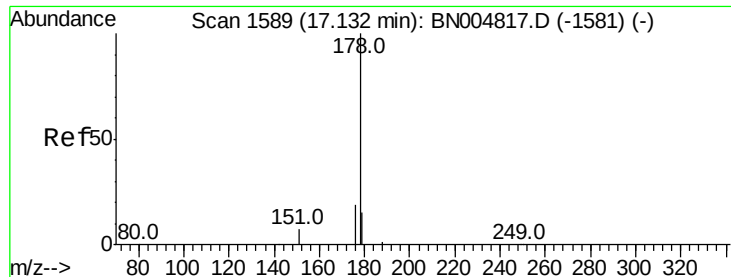
Delta R.T. -0.00 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 179   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 79.5  | 53.1  | 79.7  |
| 268       | 94.9  | 57.7  | 86.5# |





#23

Phenanthrene

Concen: 17.295 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

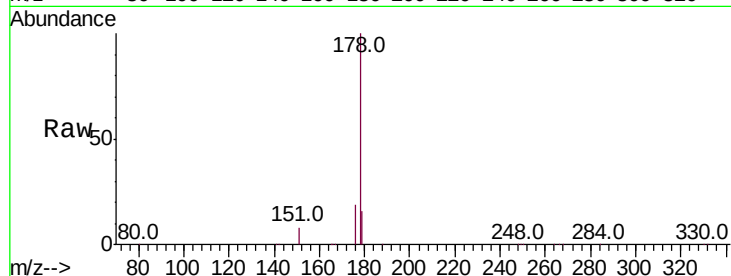
ClientSampleId :

EXT-027-SW007-030719

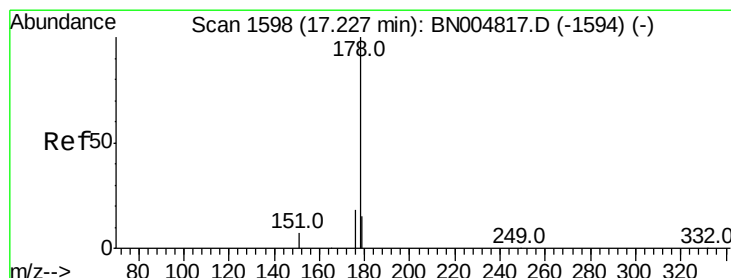
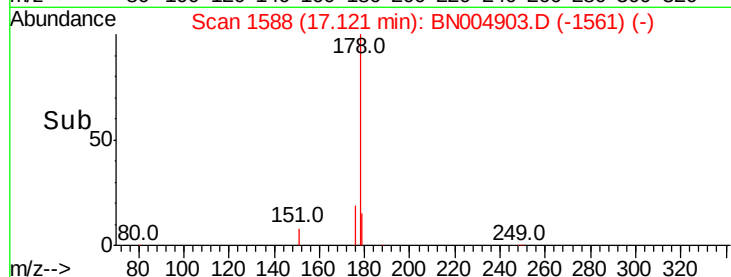
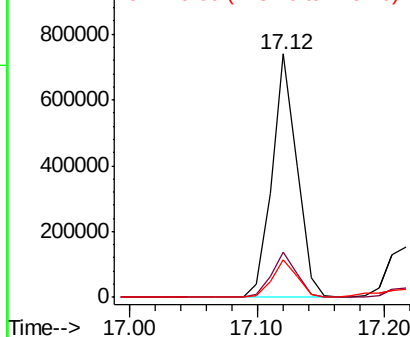
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 992929 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.8  | 14.9  | 22.3   |
| 179       | 15.6  | 12.1  | 18.1   |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



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



#24

Anthracene

Concen: 4.571 ng

RT: 17.22 min Scan# 1597

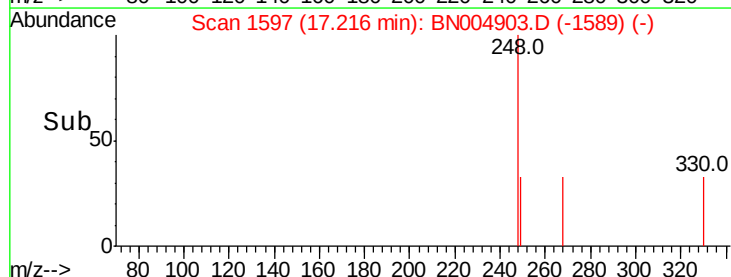
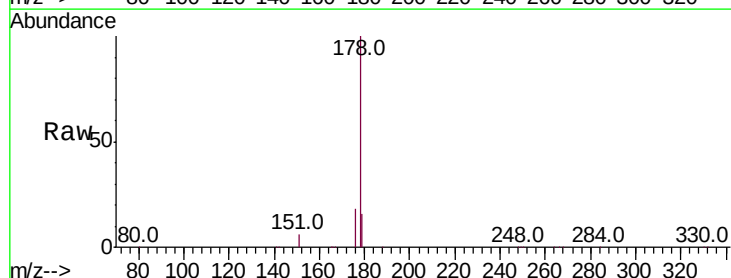
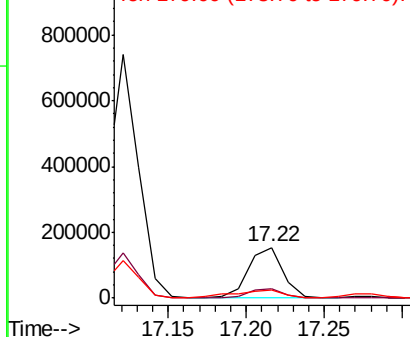
Delta R.T. -0.01 min

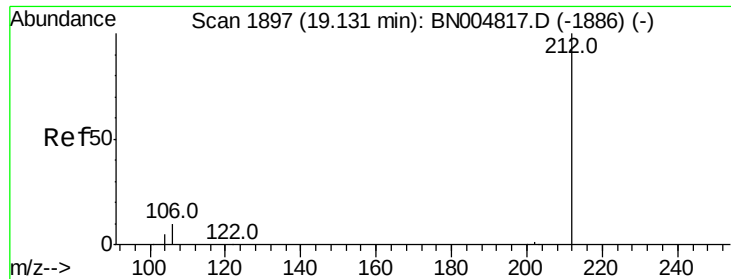
Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 234411 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 17.9  | 14.5  | 21.7   |
| 179       | 21.5  | 12.2  | 18.4#  |

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





#25

Fluoranthene-d10

Concen: 0.315 ng

RT: 19.12 min Scan# 1894

Delta R.T. -0.02 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

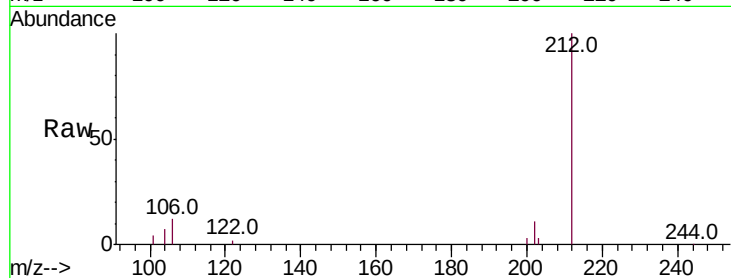
ClientSampleId :

EXT-027-SW007-030719

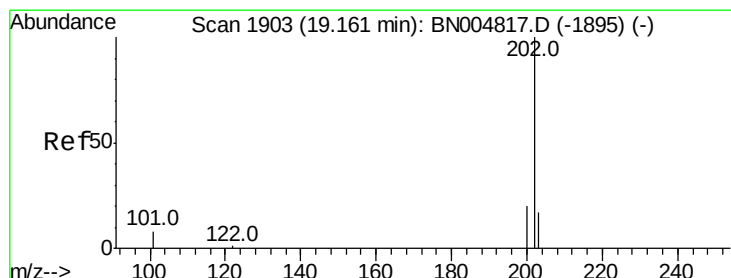
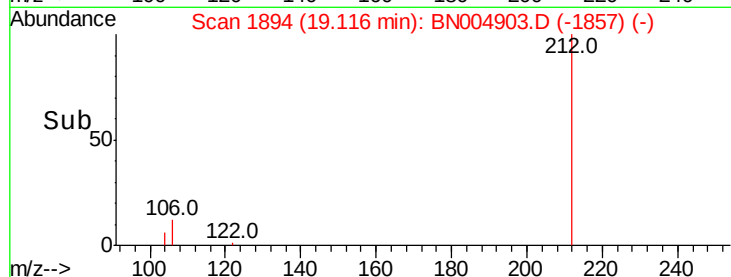
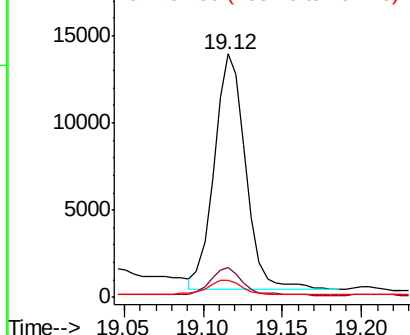
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 18763 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 11.7  | 8.6   | 13.0  |
| 104       | 6.7   | 4.7   | 7.1   |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



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: 16.790 ng

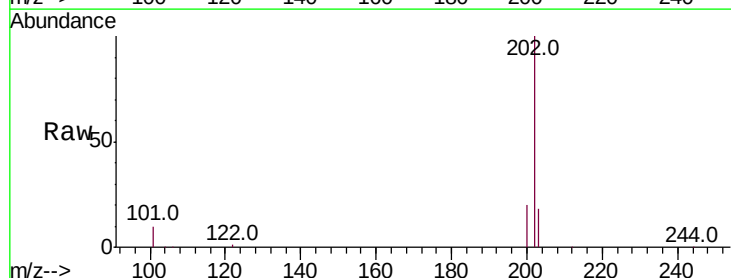
RT: 19.15 min Scan# 1900

Delta R.T. -0.02 min

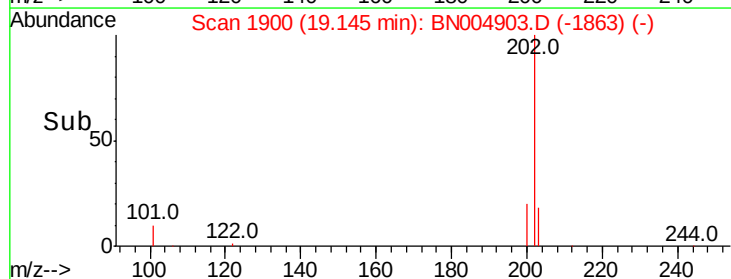
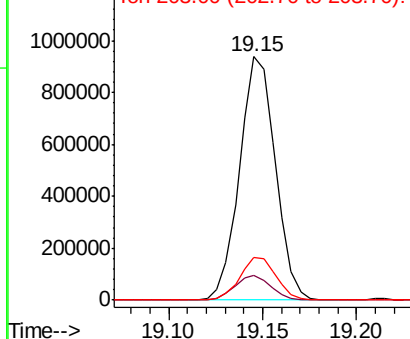
Lab File: BN004903.D

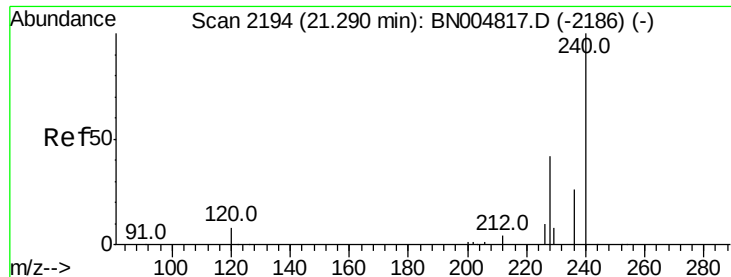
Acq: 23 Mar 2019 02:06

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1238779 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.9   | 7.5   | 11.3    |
| 203       | 17.8  | 13.8  | 20.6    |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.28 min Scan# 2193

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

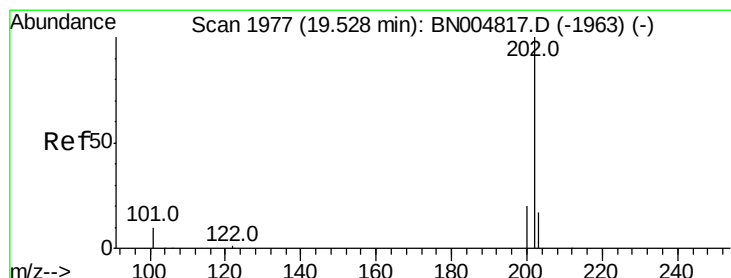
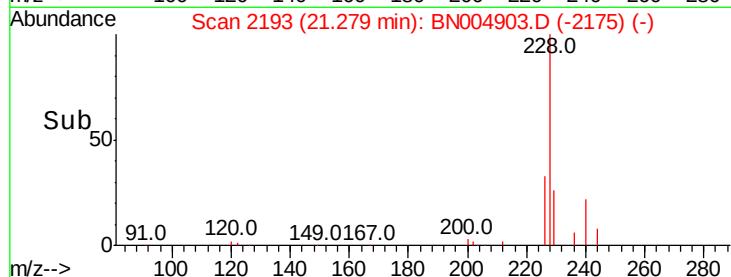
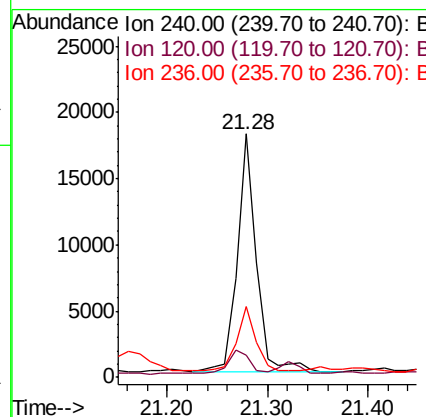
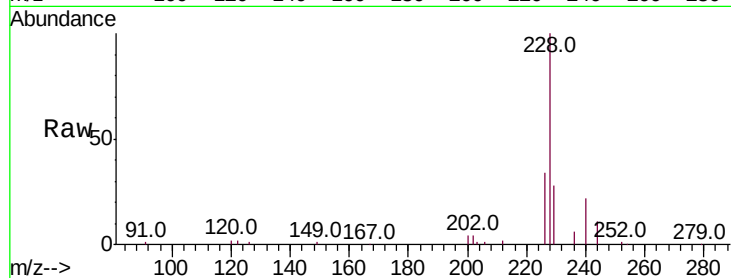
ClientSampleId :

EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.0   | 7.2   | 10.8  |
| 236     | 28.9  | 20.9  | 31.3  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



#28

Pyrene

Concen: 14.578 ng

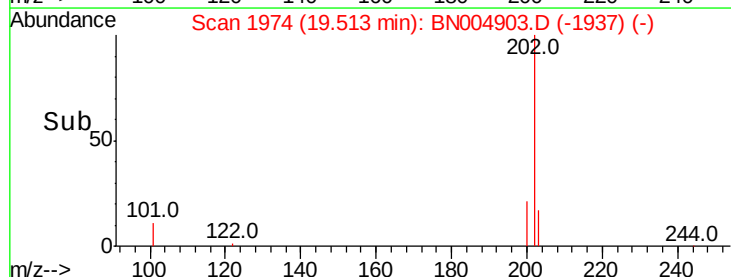
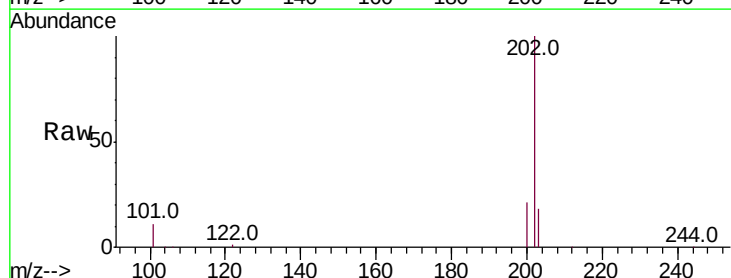
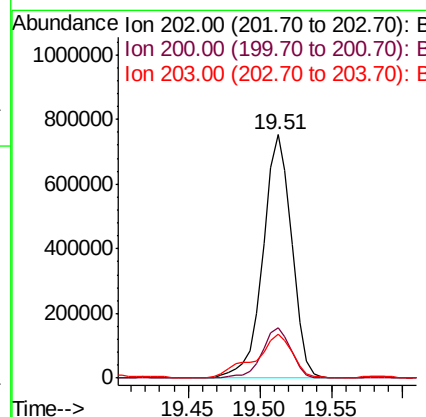
RT: 19.51 min Scan# 1974

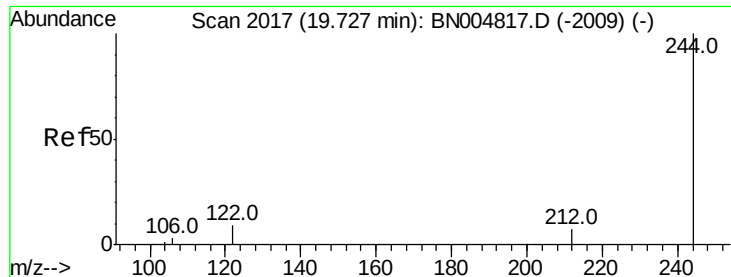
Delta R.T. -0.02 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.3  | 24.5  |
| 203     | 23.4  | 14.0  | 21.0  |





#29

Terphenyl-d14

Concen: 0.302 ng

RT: 19.72 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

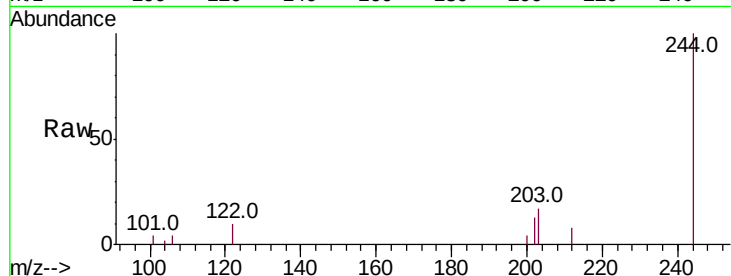
ClientSampleId :

EXT-027-SW007-030719

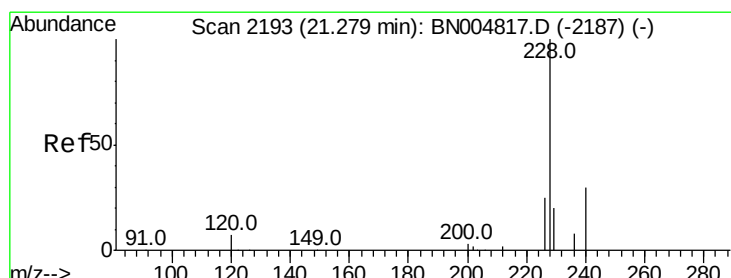
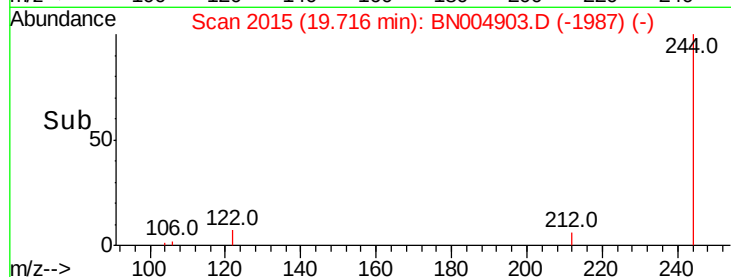
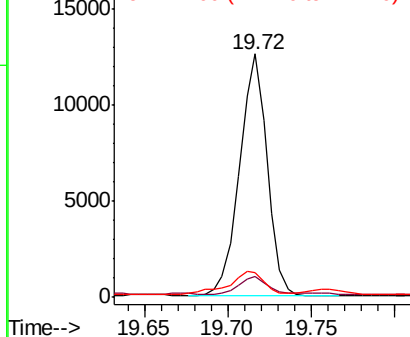
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 14492 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 8.4   | 5.8   | 8.6   |
| 122       | 10.1  | 7.9   | 11.9  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



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



#30

Benzo(a)anthracene

Concen: 9.763 ng

RT: 21.26 min Scan# 2191

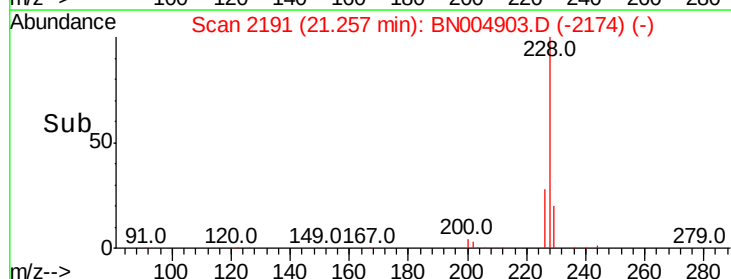
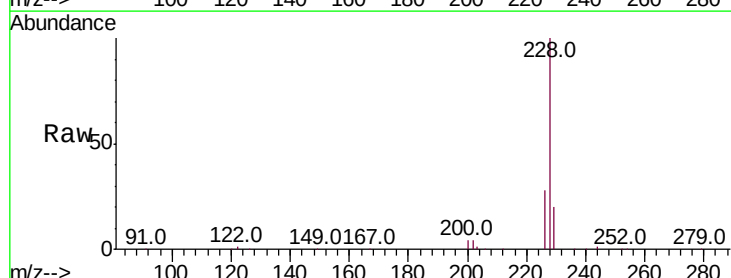
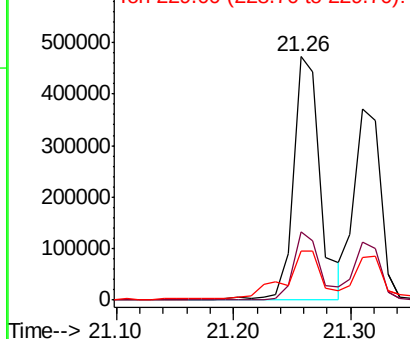
Delta R.T. -0.02 min

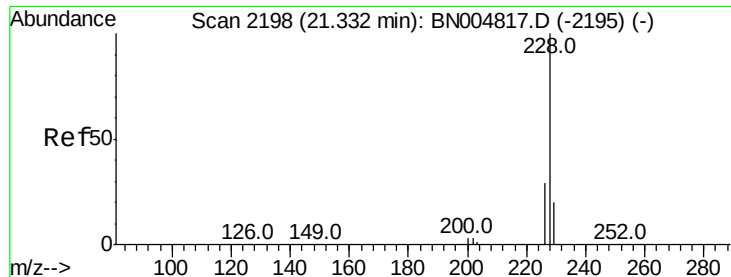
Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 751978 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.8  | 20.6  | 31.0   |
| 229       | 20.3  | 16.2  | 24.4   |

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





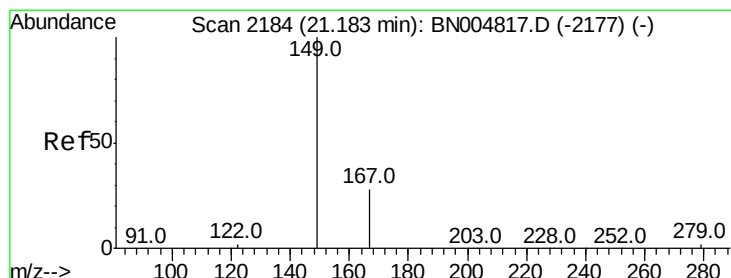
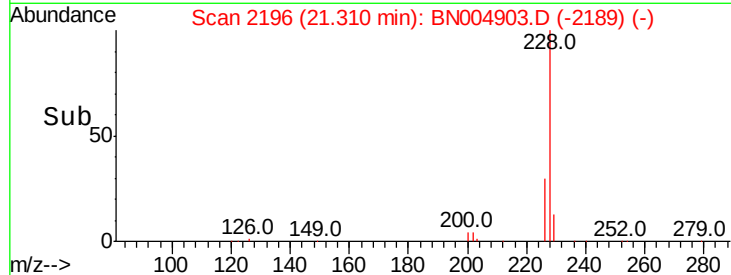
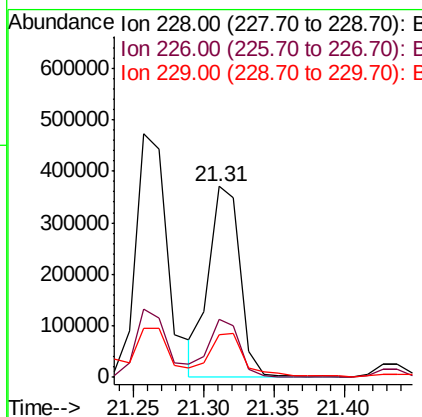
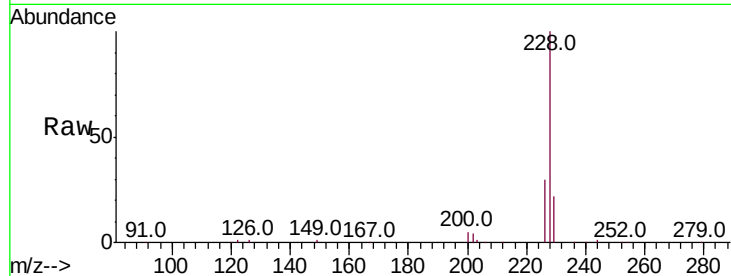
#31  
Chrysene  
Concen: 7.071 ng  
RT: 21.31 min Scan# 2196  
Delta R.T. -0.02 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

Instrument :  
BNA\_N  
ClientSampleId :  
EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 23.0  | 34.6  |
| 229     | 22.3  | 16.2  | 24.2  |

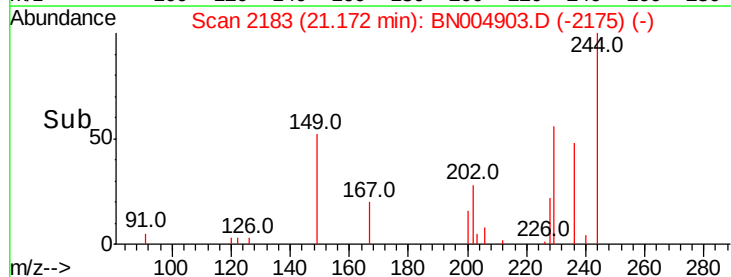
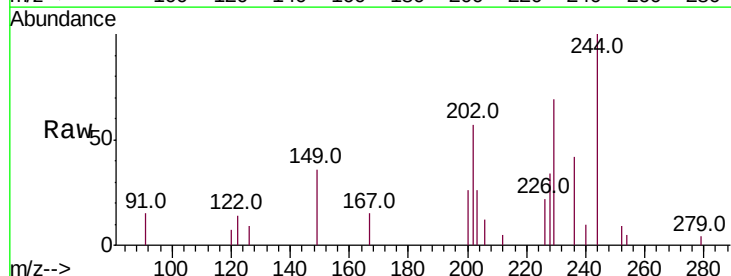
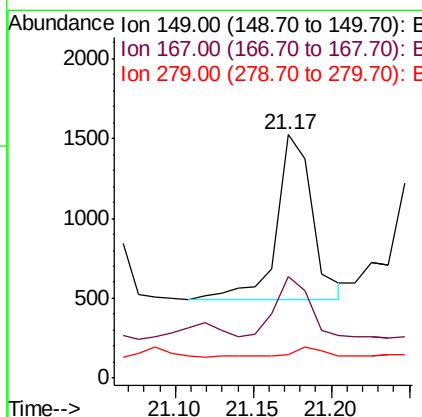
Manual Integrations  
APPROVED

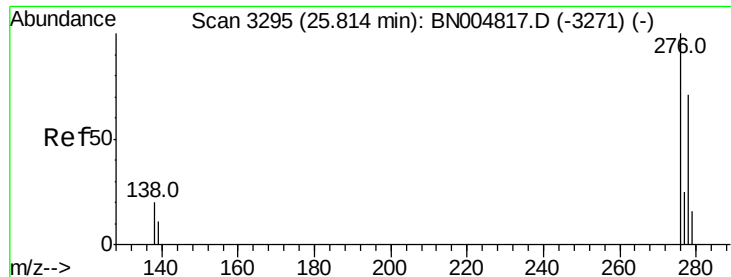
Sohil  
3/25/2019 8:57:19 AM



#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.053 ng  
RT: 21.17 min Scan# 2183  
Delta R.T. -0.01 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 37.4  | 23.0  | 34.4# |
| 279     | 5.6   | 4.6   | 6.8   |





#33

Indeno(1,2,3-cd)pyrene

Concen: 1.998 ng

RT: 25.79 min Scan# 3288

Delta R.T. -0.02 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

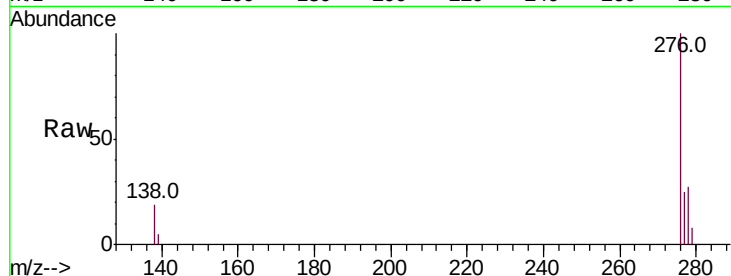
ClientSampleId :

EXT-027-SW007-030719

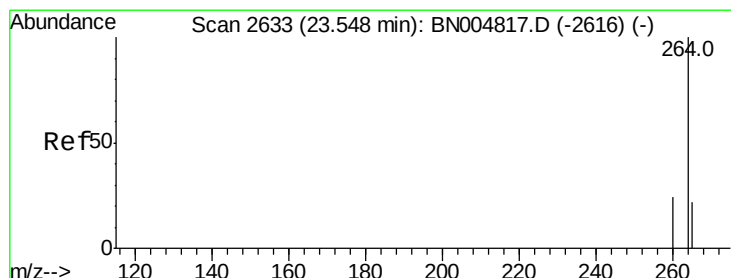
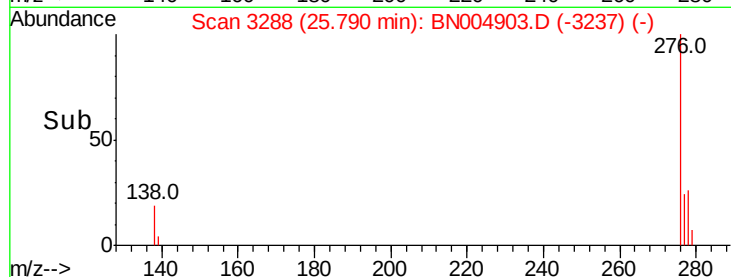
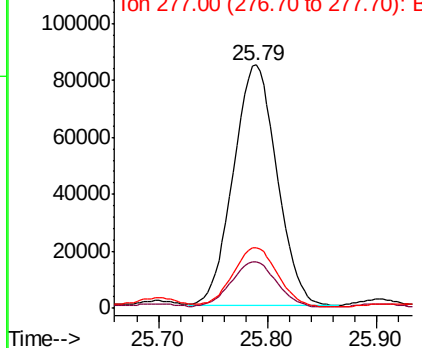
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 234546 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 19.5  | 16.6  | 24.8   |
| 277       | 25.4  | 20.3  | 30.5   |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.53 min Scan# 2627

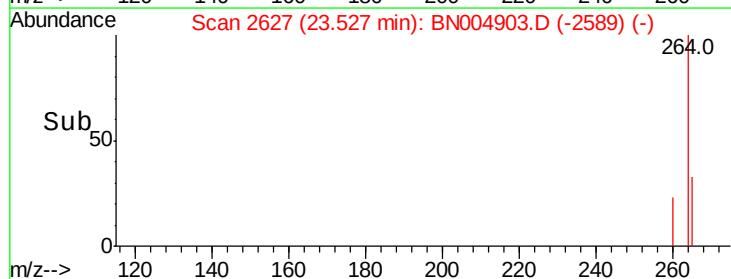
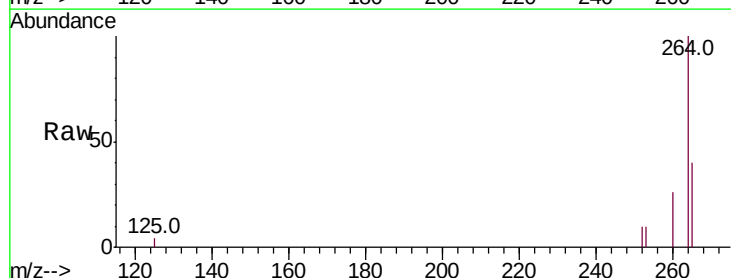
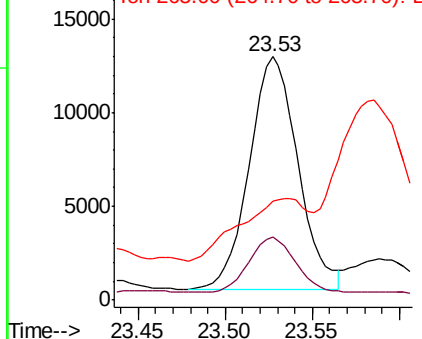
Delta R.T. -0.02 min

Lab File: BN004903.D

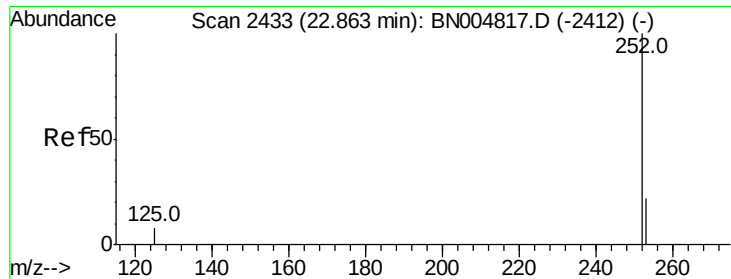
Acq: 23 Mar 2019 02:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 24166 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 25.8  | 19.5  | 29.3  |
| 265       | 40.5  | 23.1  | 34.7# |

Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E







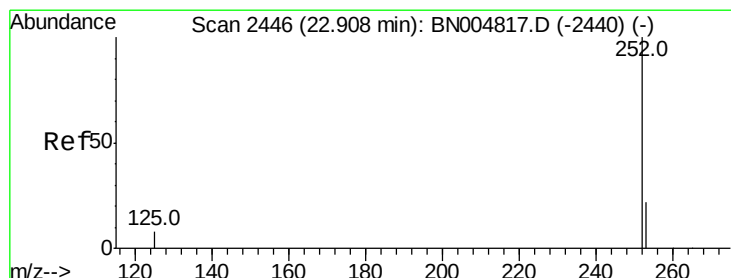
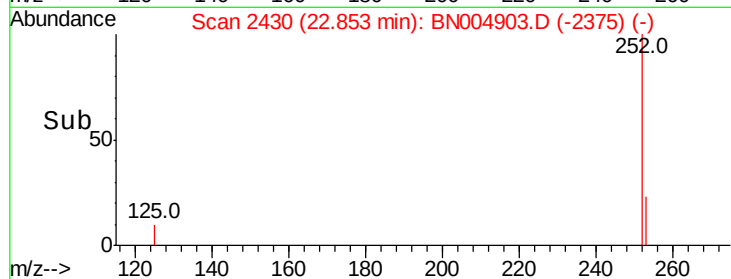
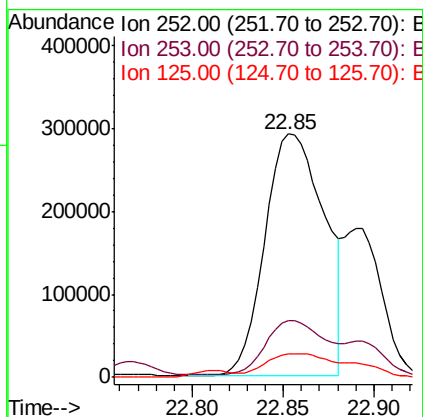
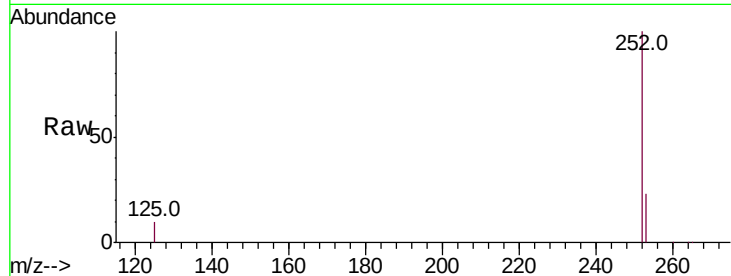
#35  
Benzo(b)fluoranthene  
Concen: 7.604 ng  
RT: 22.85 min Scan# 2430  
Delta R.T. -0.01 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

Instrument :  
BNA\_N  
ClientSampleId :  
EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 19.0  | 28.4  |
| 125     | 9.7   | 7.4   | 11.2  |

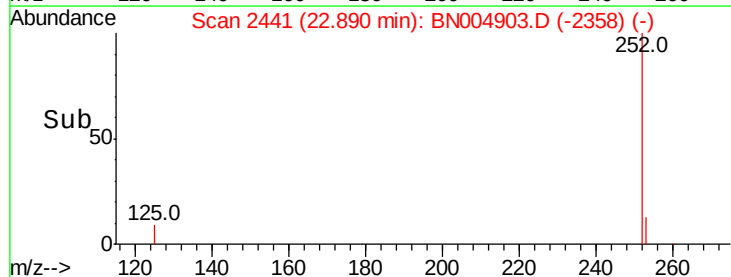
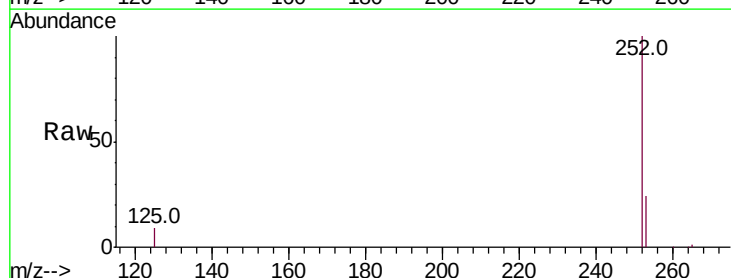
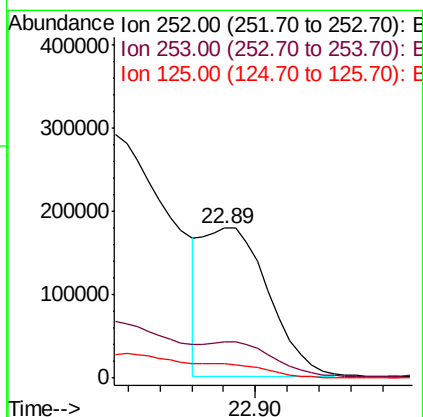
Manual Integrations  
APPROVED

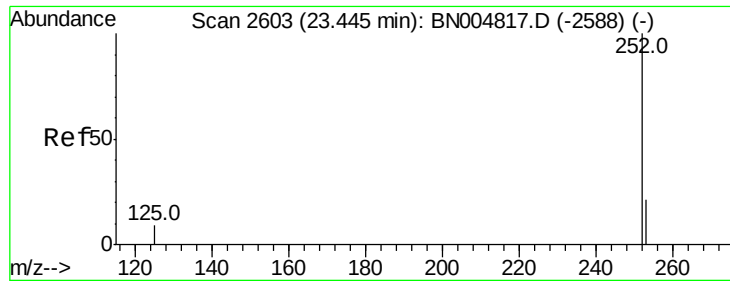
Sohil  
3/25/2019 8:57:19 AM



#36  
Benzo(k)fluoranthene  
Concen: 3.012 ng m  
RT: 22.89 min Scan# 2441  
Delta R.T. -0.02 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 19.3  | 28.9  |
| 125     | 9.5   | 7.4   | 11.0  |





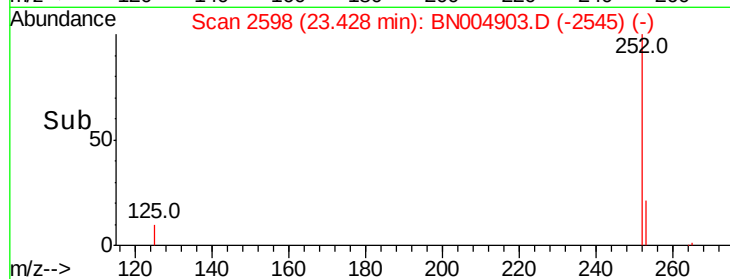
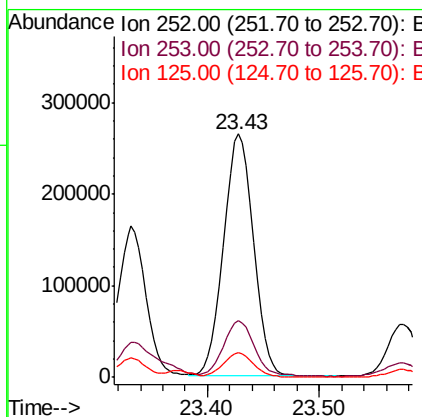
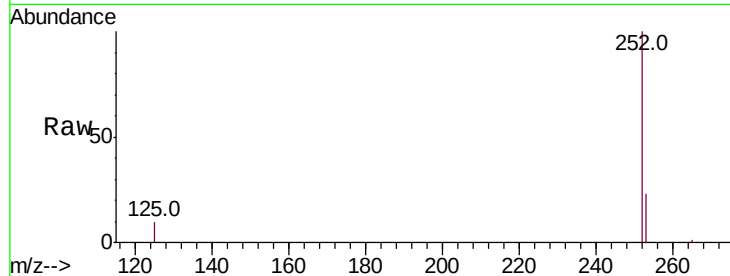
#37  
Benzo(a)pyrene  
Concen: 6.135 ng  
RT: 23.43 min Scan# 2598  
Delta R.T. -0.02 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

Instrument :  
BNA\_N  
ClientSampleId :  
EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 19.7  | 29.5  |
| 125     | 10.1  | 8.3   | 12.5  |

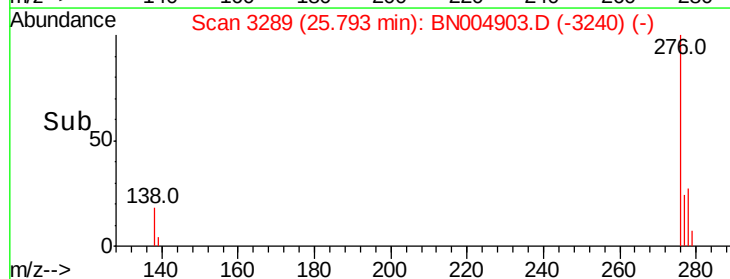
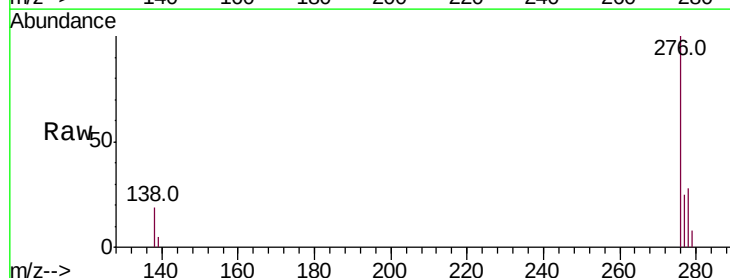
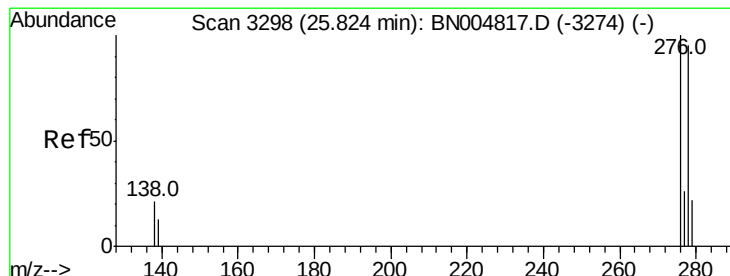
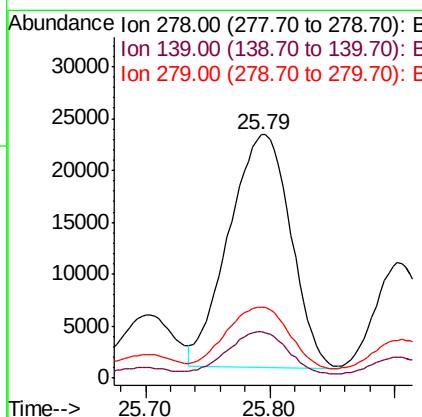
Manual Integrations  
APPROVED

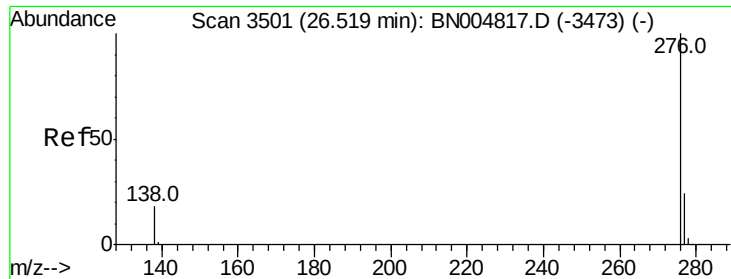
Sohil  
3/25/2019 8:57:19 AM



#38  
Dibenzo(a,h)anthracene  
Concen: 0.833 ng  
RT: 25.79 min Scan# 3289  
Delta R.T. -0.03 min  
Lab File: BN004903.D  
Acq: 23 Mar 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.4  | 11.7  | 17.5# |
| 279     | 29.3  | 19.9  | 29.9  |





#39

Benzo(a,h,i)perylene

Concen: 2.025 ng

RT: 26.49 min Scan# 3492

Delta R.T. -0.03 min

Lab File: BN004903.D

Acq: 23 Mar 2019 02:06

Instrument :

BNA\_N

ClientSampleId :

EXT-027-SW007-030719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.4  | 19.7  | 29.5  |
| 138     | 19.5  | 14.6  | 22.0  |

Manual Integrations  
APPROVED

Sohil  
3/25/2019 8:57:19 AM

