

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060619\  
 Data File : BN006163.D  
 Acq On : 07 Jun 2019 09:23  
 Operator : JU/SJ  
 Sample : K3201-20  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD1

Manual Integrations  
 APPROVED

mohammad  
 6/11/2019 5:08:16 PM

Quant Time: Jun 07 13:14:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 07 01:31:14 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.65  | 152  | 5254     | 0.40    | ng/ul | 0.00     |
| 2) Naphthalene-d8           | 10.43 | 136  | 19726    | 0.40    | ng/ul | 0.00     |
| 6) Acenaphthene-d10         | 14.30 | 164  | 12318    | 0.40    | ng/ul | 0.00     |
| 10) Phenanthrene-d10        | 17.05 | 188  | 22155m   | 0.40    | ng/ul | 0.00     |
| 16) Chrysene-d12            | 21.28 | 240  | 15163m   | 0.40    | ng/ul | 0.01     |
| 20) Perylene-d12            | 23.51 | 264  | 19793m   | 0.40    | ng/ul | 0.01     |
| System Monitoring Compounds |       |      |          |         |       |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 10551    | 0.35    | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 18719m   | 0.31    | ng/ul | 0.00     |
| Target Compounds            |       |      |          | Ovalue  |       |          |
| 3) Naphthalene              | 10.48 | 128  | 134197   | 2.465   | ng/ul | 99       |
| 5) 2-Methylnaphthalene      | 12.10 | 142  | 110529   | 2.914   | ng/ul | 100      |
| 7) Acenaphthylene           | 14.02 | 152  | 283098   | 4.135   | ng/ul | 99       |
| 8) Acenaphthene             | 14.36 | 153  | 457179   | 9.625   | ng/ul | 99       |
| 9) Fluorene                 | 15.36 | 166  | 586997   | 10.563  | ng/ul | 99       |
| 12) Phenanthrene            | 17.10 | 178  | 6853081m | 96.362  | ng/ul |          |
| 13) Anthracene              | 17.19 | 178  | 2414567m | 35.551  | ng/ul |          |
| 15) Fluoranthene            | 19.14 | 202  | 8483720m | 108.032 | ng/ul |          |
| 17) Pyrene                  | 19.50 | 202  | 7332724  | 91.808  | ng/ul | 95       |
| 18) Benzo(a)anthracene      | 21.26 | 228  | 4753431m | 70.879  | ng/ul |          |
| 19) Chrysene                | 21.31 | 228  | 4280555  | 67.991  | ng/ul | 96       |
| 21) Benzo(b)fluoranthene    | 22.85 | 252  | 4876645m | 59.088  | ng/ul |          |
| 22) Benzo(k)fluoranthene    | 22.89 | 252  | 2169571m | 26.988  | ng/ul |          |
| 23) Benzo(a)pyrene          | 23.42 | 252  | 3715476m | 48.337  | ng/ul |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.76 | 276  | 2231940m | 26.826  | ng/ul |          |
| 25) Dibenzo(a,h)anthracene  | 25.76 | 278  | 719484m  | 10.817  | ng/ul |          |
| 26) Benzo(a,h,i)perylene    | 26.44 | 276  | 1550688  | 22.253  | ng/ul | 94       |

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

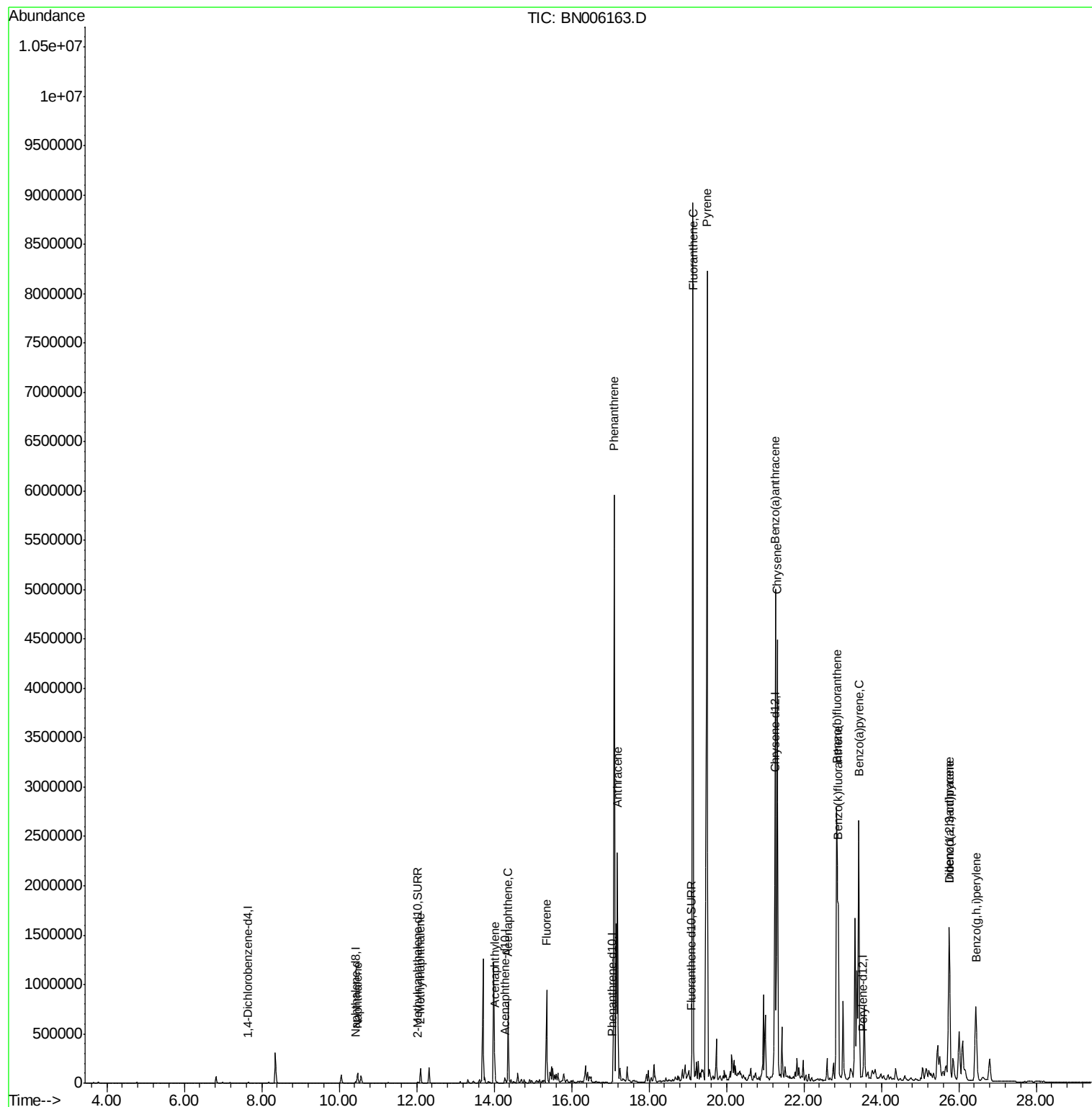
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060619\  
Data File : BN006163.D  
Acq On : 07 Jun 2019 09:23  
Operator : JU/SJ  
Sample : K3201-20  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

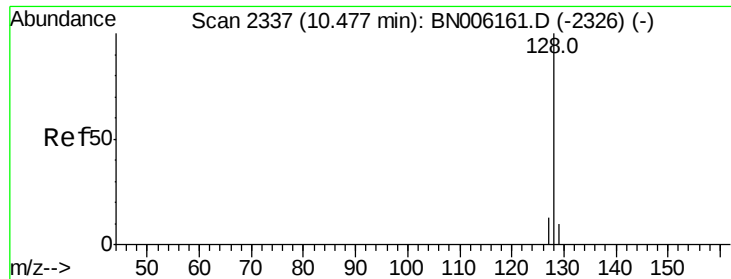
Instrument :  
BNA\_N  
ClientSampleId :  
C0AD1

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Quant Time: Jun 07 13:14:49 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 01:31:14 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.465 ng/ul

RT: 10.48 min Scan# 2337

Delta R.T. -0.00 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Instrument :

BNA\_N

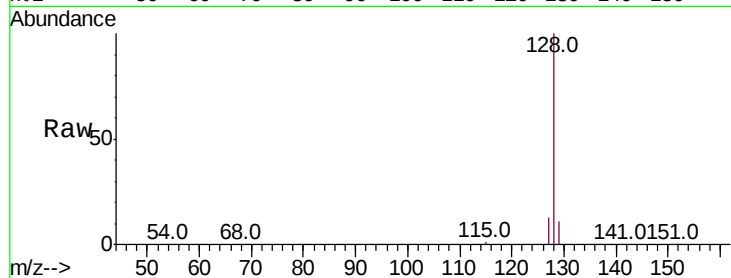
ClientSampled :

C0AD1

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:128 | Resp: | 134197    |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 11.1  | 9.3 13.9  |
| 127         | 12.9  | 10.7 16.1 |

Manual Integrations  
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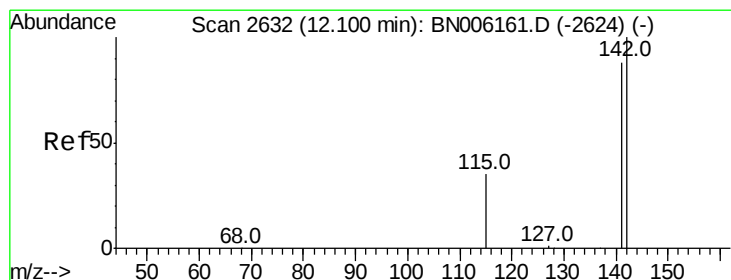
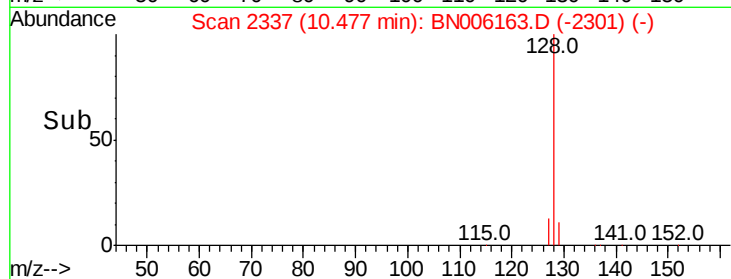
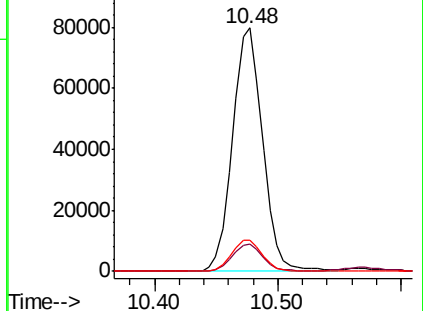
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 2.914 ng/ul

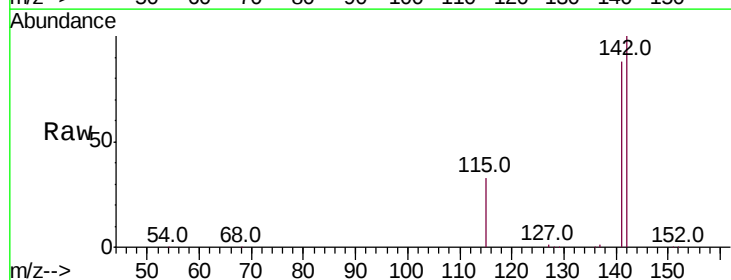
RT: 12.10 min Scan# 2632

Delta R.T. -0.00 min

Lab File: BN006163.D

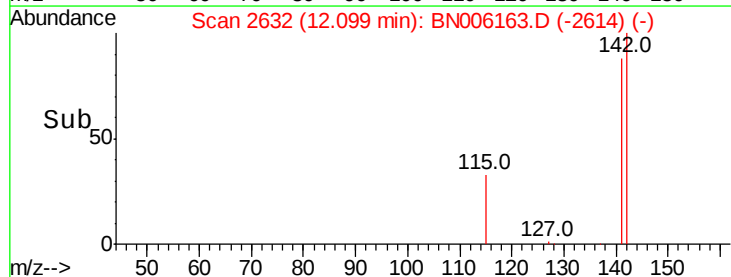
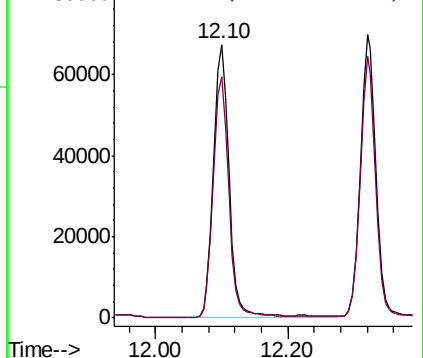
Acq: 07 Jun 2019 09:23

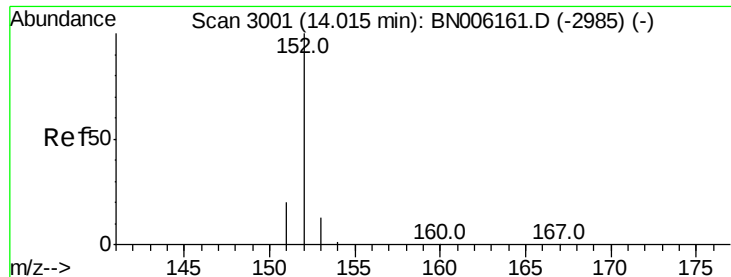
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 110529     |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 88.2  | 70.3 105.5 |



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 4.135 ng/ul

RT: 14.02 min Scan# 3002

Delta R.T. -0.00 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Instrument :

BNA\_N

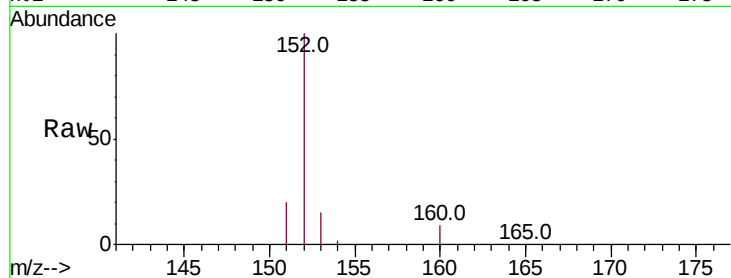
ClientSampleId :

C0AD1

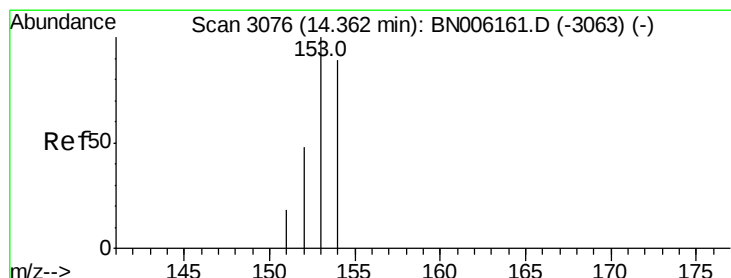
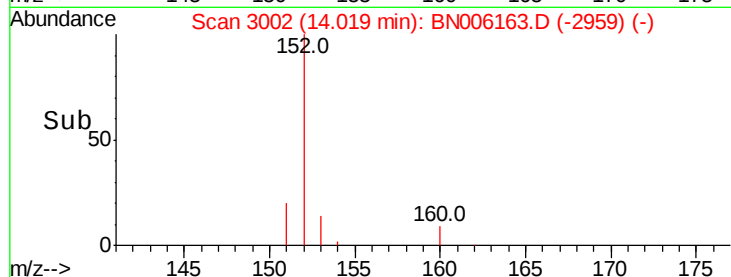
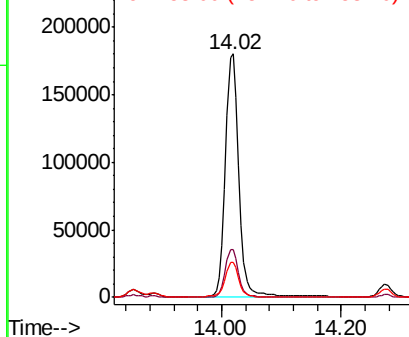
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 283098 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.7  | 15.8  | 23.8   |
| 153       | 14.5  | 10.8  | 16.2   |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 9.625 ng/ul

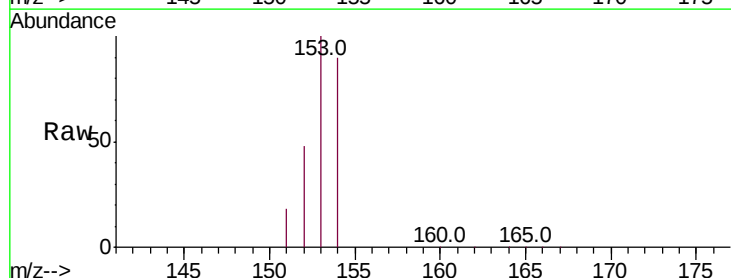
RT: 14.36 min Scan# 3076

Delta R.T. -0.00 min

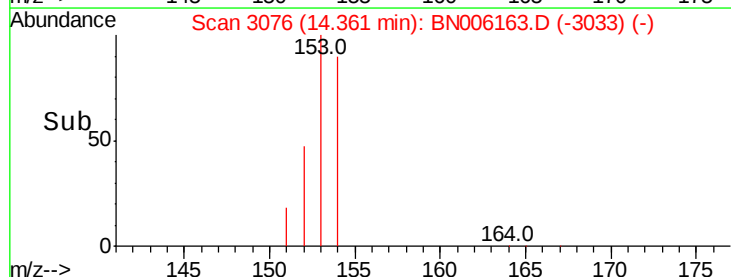
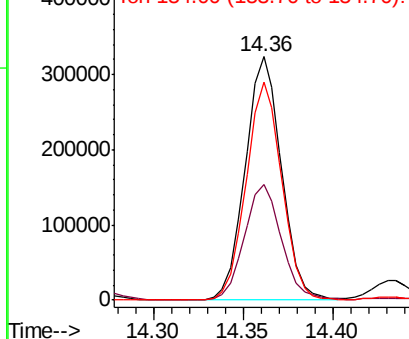
Lab File: BN006163.D

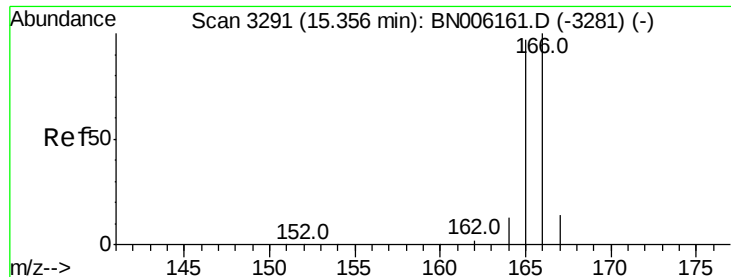
Acq: 07 Jun 2019 09:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 457179 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 47.6  | 39.1  | 58.7   |
| 154       | 89.5  | 71.1  | 106.7  |



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





#9

Fluorene

Concen: 10.563 ng/ul

RT: 15.36 min Scan# 3291

Delta R.T. -0.00 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Instrument :

BNA\_N

ClientSampleId :

C0AD1

Tot Ion:166 Resp: 586997

Ion Ratio Lower Upper

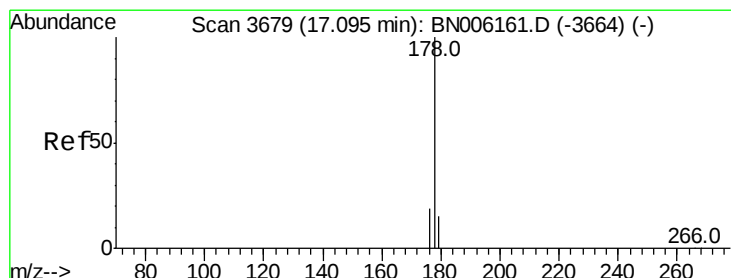
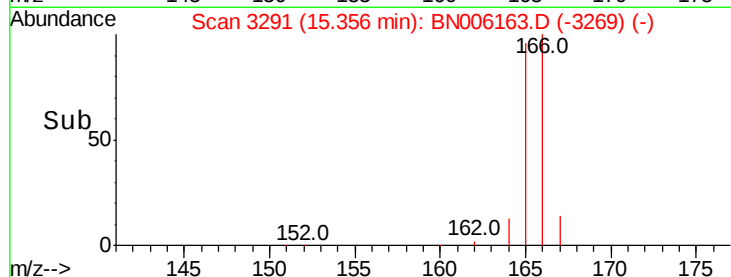
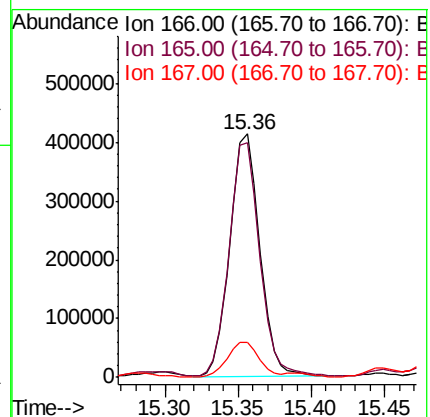
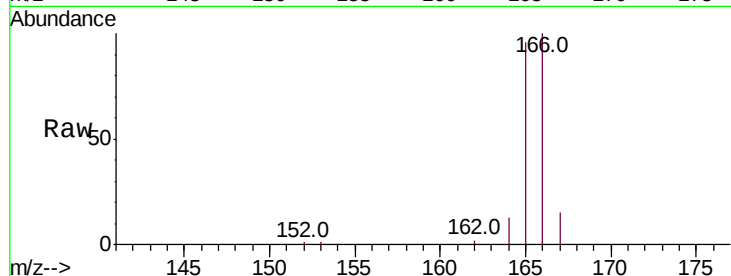
166 100

165 96.4 76.4 114.6

167 14.6 11.0 16.6

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#12

Phenanthrene

Concen: 96.362 ng/ul m

RT: 17.10 min Scan# 3681

Delta R.T. 0.01 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

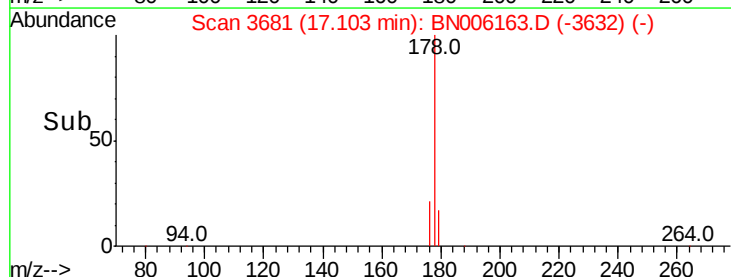
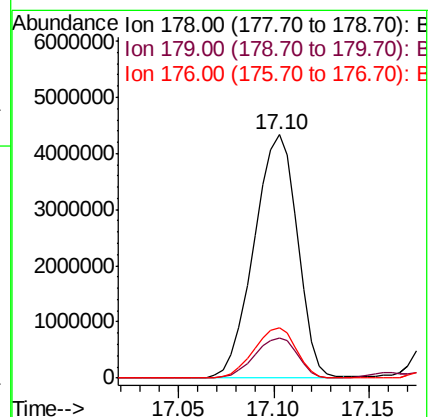
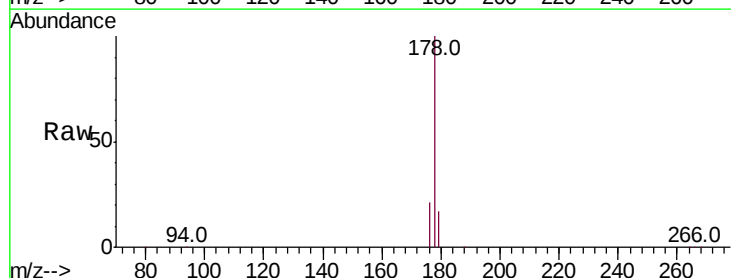
Tgt Ion:178 Resp: 6853081

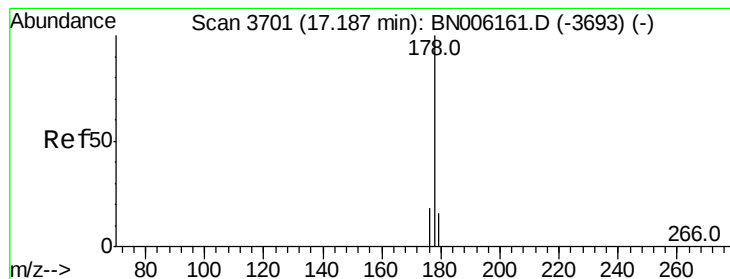
Ion Ratio Lower Upper

178 100

179 16.7 12.3 18.5

176 20.8 15.3 22.9





#13

Anthracene

Concen: 35.551 ng/ul m

RT: 17.19 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Instrument :

BNA\_N

ClientSampleId :

C0AD1

Tot Ion:178 Resp: 2414567

Ion Ratio Lower Upper

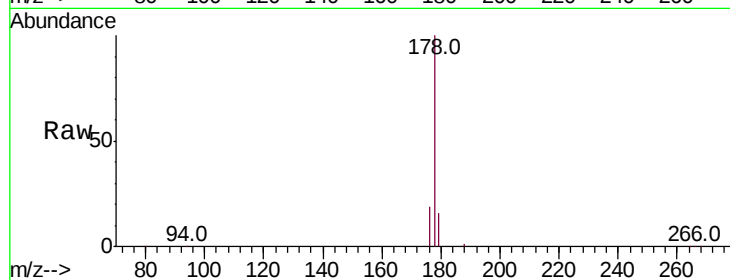
178 100

179 15.8 12.2 18.4

176 19.1 15.1 22.7

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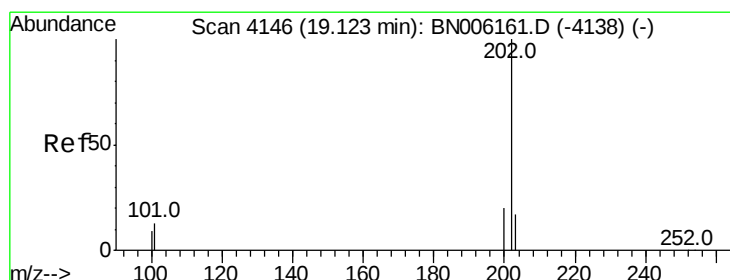
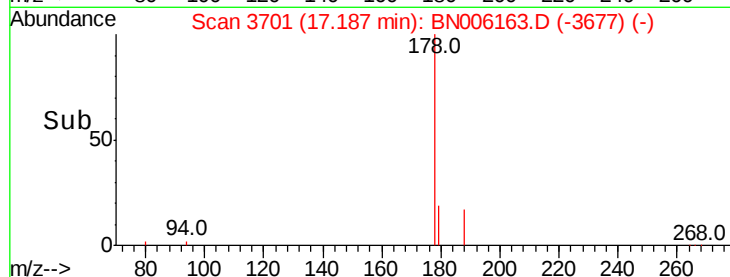
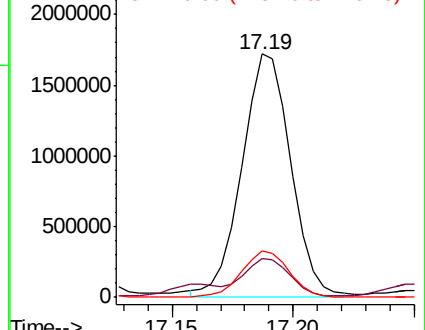
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15

Fluoranthene

Concen: 108.032 ng/ul m

RT: 19.14 min Scan# 4149

Delta R.T. 0.01 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

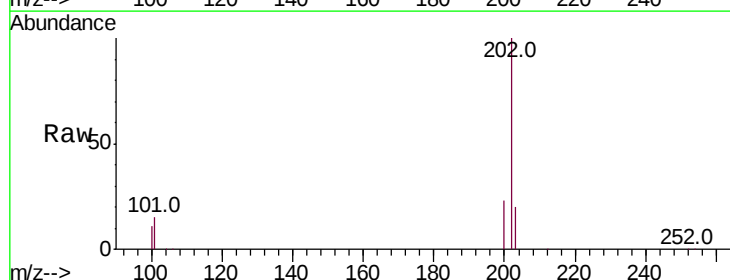
Tgt Ion:202 Resp: 8483720

Ion Ratio Lower Upper

202 100

101 14.7 0.0 32.1

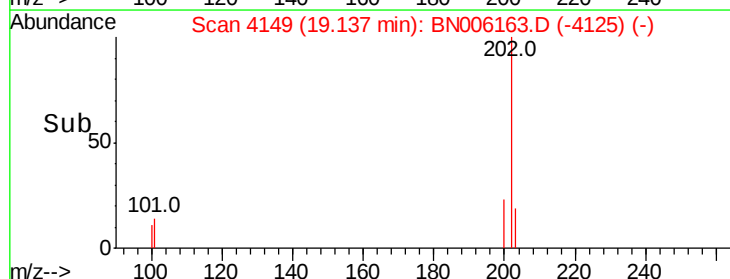
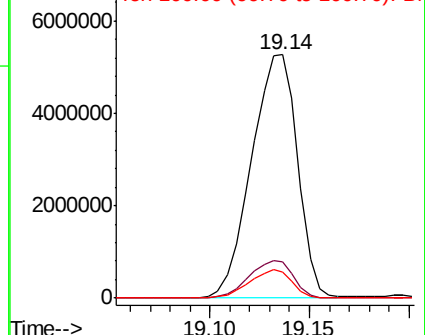
100 10.8 0.0 28.7

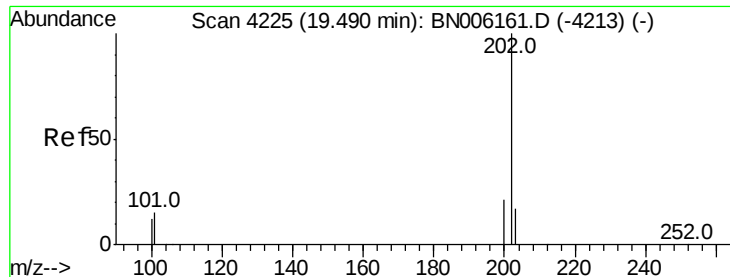


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





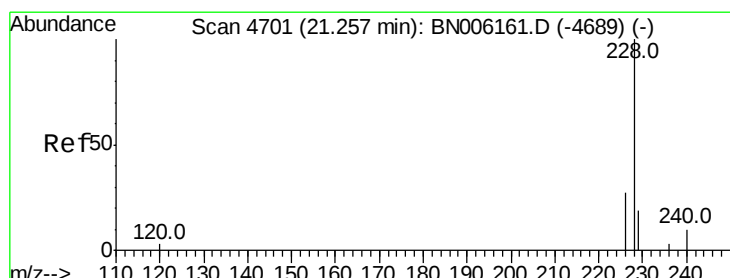
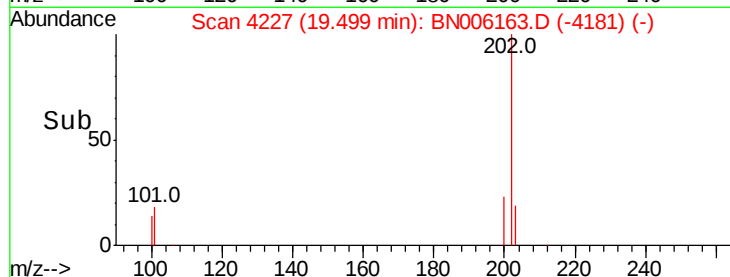
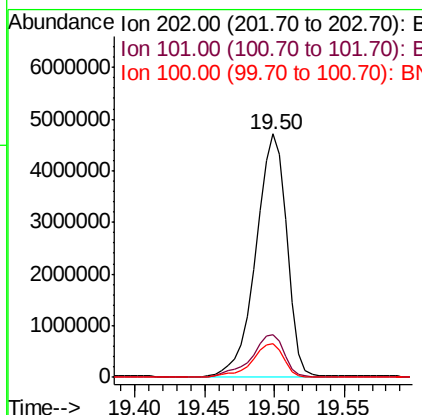
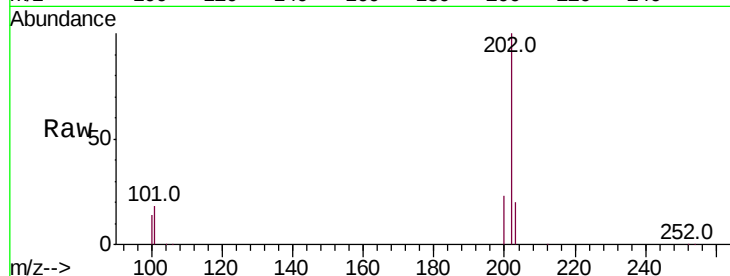
#17  
Pvrene  
Concen: 91.808 ng/ul  
RT: 19.50 min Scan# 4227  
Delta R.T. 0.01 min  
Lab File: BN006163.D  
Acq: 07 Jun 2019 09:23

Instrument :  
BNA\_N  
ClientSampleId :  
C0AD1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.6  | 12.2  | 18.2  |
| 100     | 14.0  | 9.8   | 14.6  |

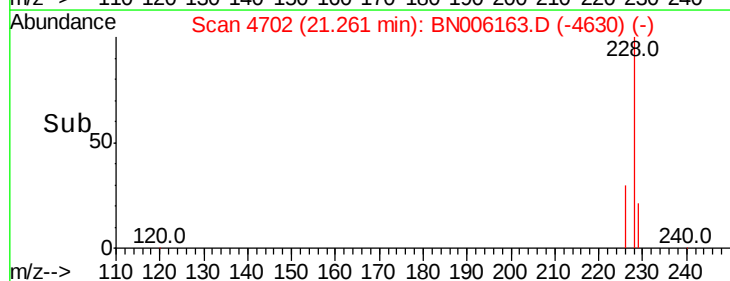
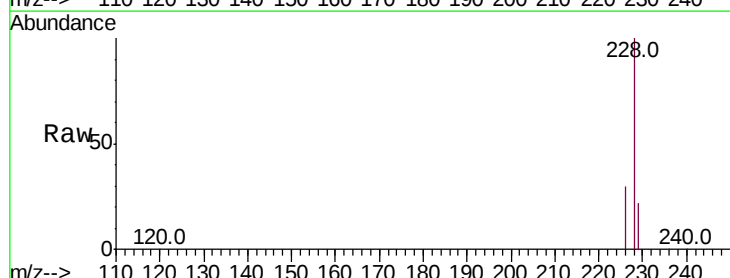
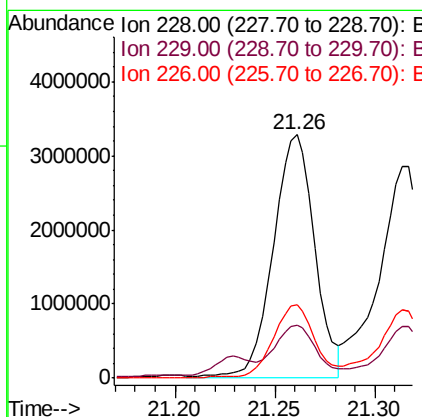
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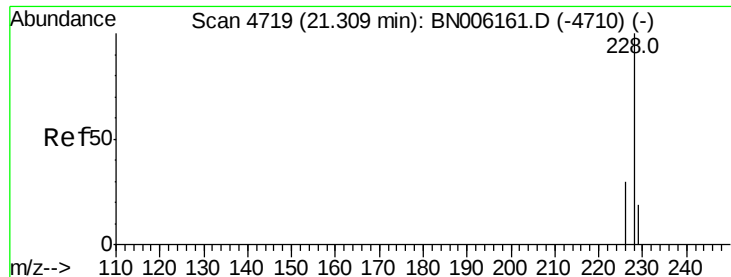
mohammad  
6/11/2019 5:08:16 PM



#18  
Benzo(a)anthracene  
Concen: 70.879 ng/ul m  
RT: 21.26 min Scan# 4702  
Delta R.T. 0.01 min  
Lab File: BN006163.D  
Acq: 07 Jun 2019 09:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.0  | 16.5  | 24.7  |
| 226     | 30.1  | 22.8  | 34.2  |





#19

Chrysene

Concen: 67.991 ng/ul

RT: 21.31 min Scan# 4720

Delta R.T. 0.01 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Instrument :

BNA\_N

ClientSampled :

C0AD1

Tot Ion:228 Resp: 4280555

Ion Ratio Lower Upper

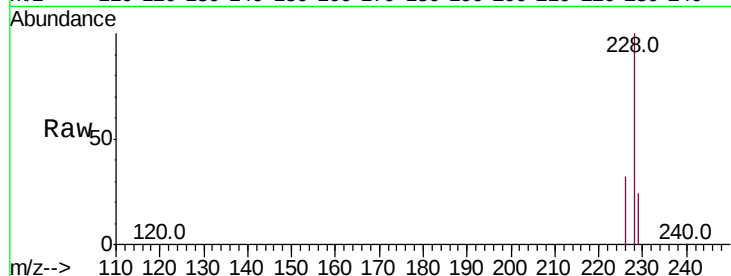
228 100

226 32.3 25.0 37.6

229 24.2 16.3 24.5

Manual Integrations  
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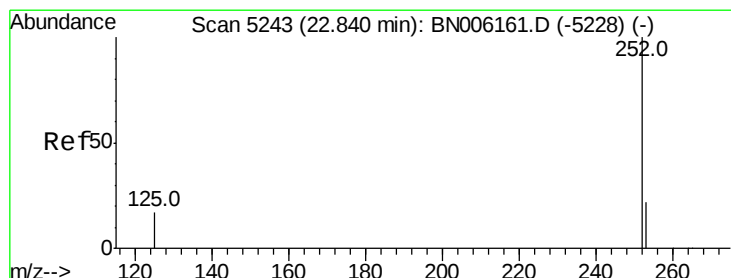
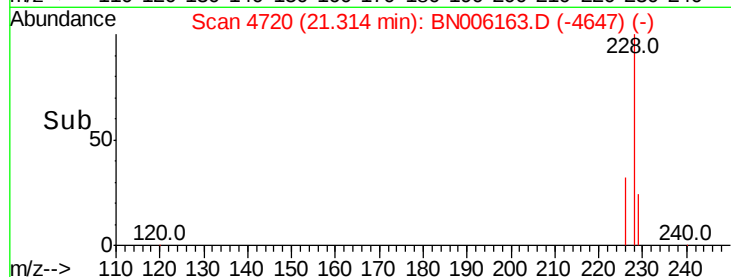
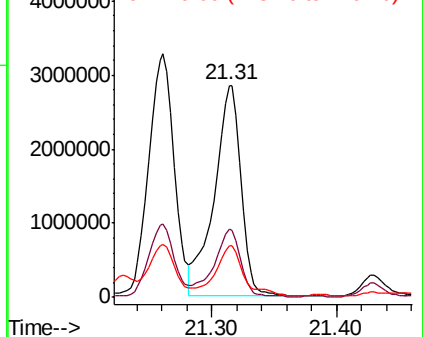
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#21

Benzo(b)fluoranthene

Concen: 59.088 ng/ul m

RT: 22.85 min Scan# 5246

Delta R.T. 0.02 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Tgt Ion:252 Resp: 4876645

Ion Ratio Lower Upper

252 100

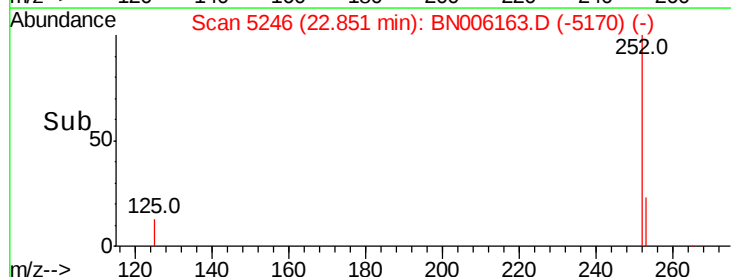
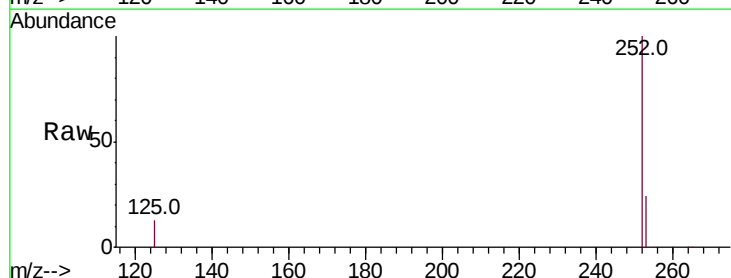
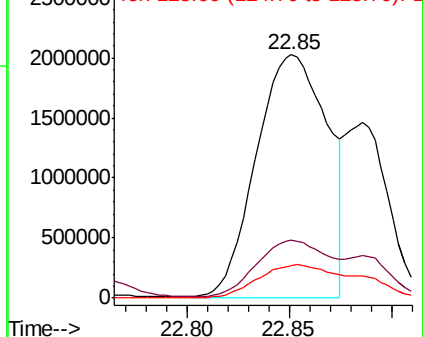
253 23.7 0.0 51.4

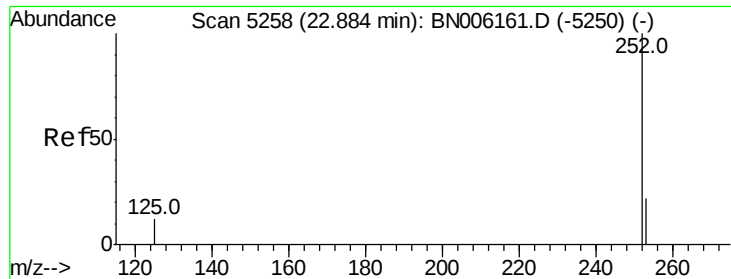
125 13.5 0.0 41.0

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#22

Benzo(k)fluoranthene

Concen: 26.988 ng/ul m

RT: 22.89 min Scan# 5258

Delta R.T. 0.02 min

Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Instrument :

BNA\_N

ClientSampled :

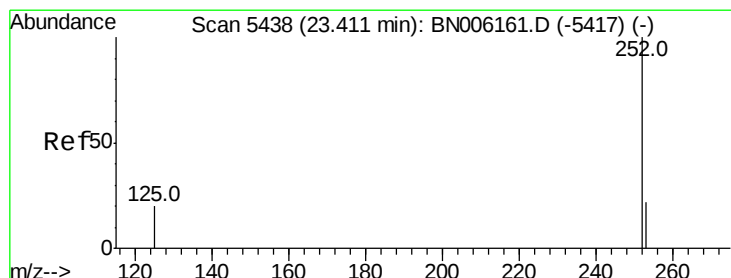
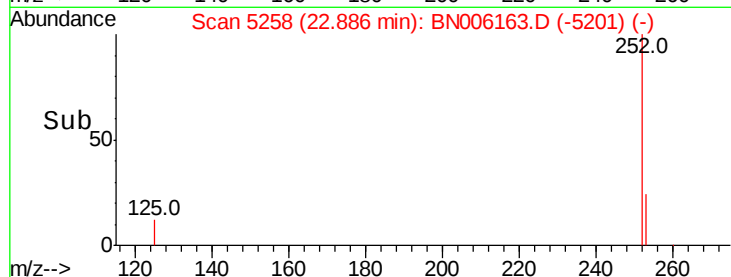
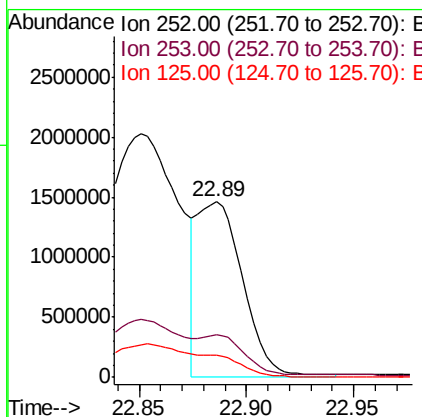
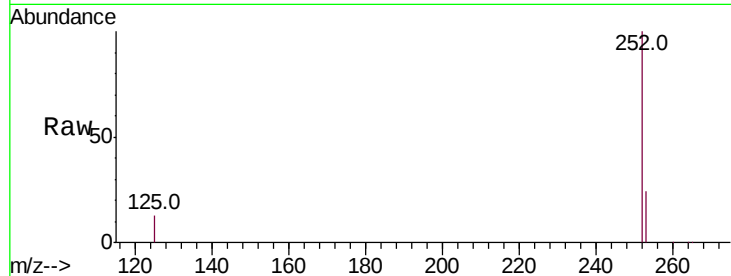
C0AD1

Tot Ion:252 Resp: 2169571

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.5  | 20.3  | 30.5  |
| 125 | 12.6  | 14.3  | 21.5# |

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#23

Benzo(a)pyrene

Concen: 48.337 ng/ul m

RT: 23.42 min Scan# 5441

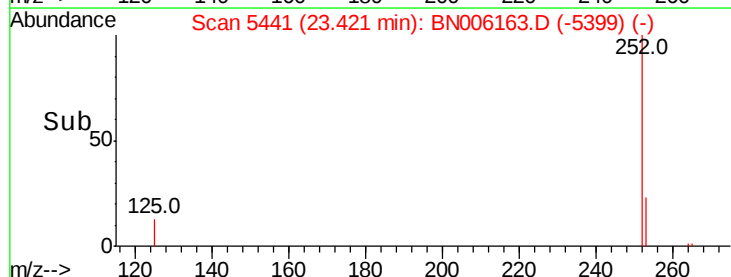
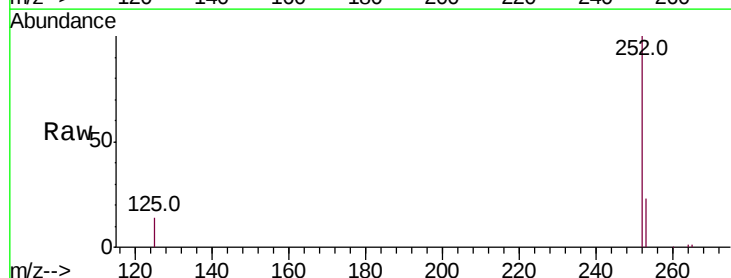
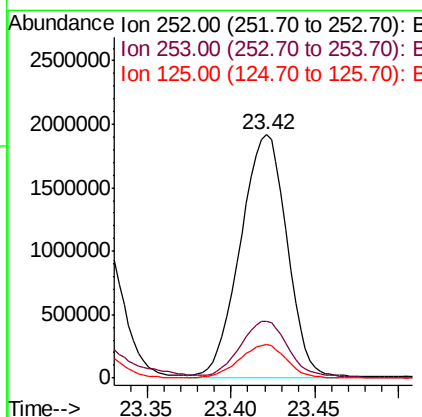
Delta R.T. 0.02 min

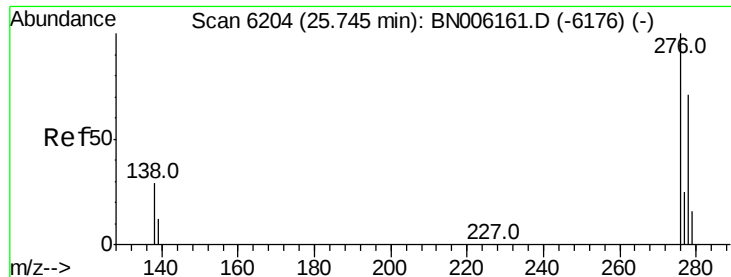
Lab File: BN006163.D

Acq: 07 Jun 2019 09:23

Tgt Ion:252 Resp: 3715476

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.5  | 21.1  | 31.7  |
| 125 | 13.6  | 20.3  | 30.5# |





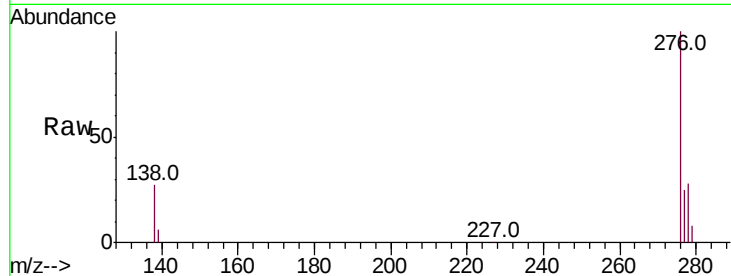
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 26.826 ng/ul m  
RT: 25.76 min Scan# 6207  
Delta R.T. 0.03 min  
Lab File: BN006163.D  
Acq: 07 Jun 2019 09:23

Instrument :  
BNA\_N  
ClientSampled :  
C0AD1

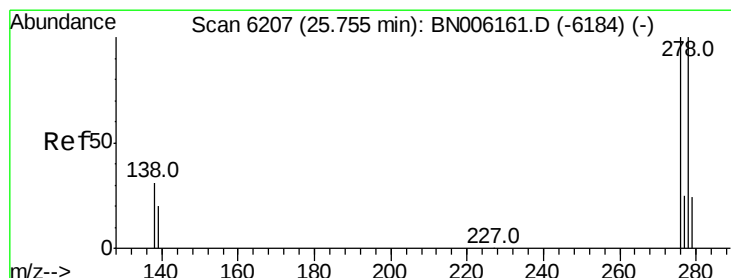
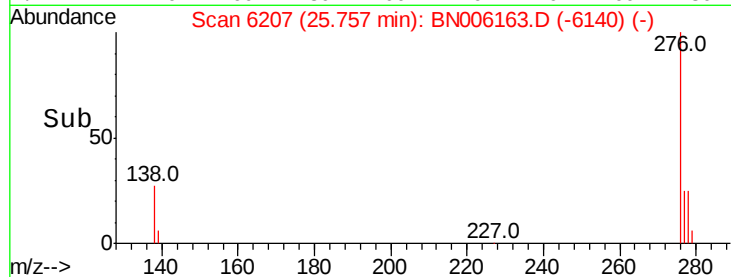
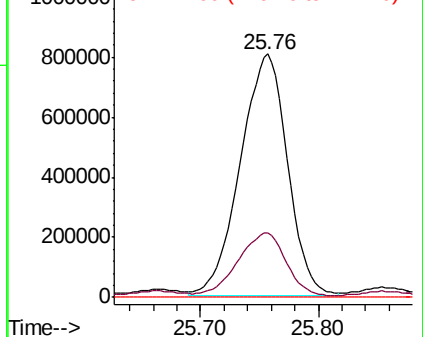
Tot Ion:276 Resp: 2231940  
Ion Ratio Lower Upper  
276 100  
138 2.2 25.6 38.4#  
227 0.1 0.3 0.5#

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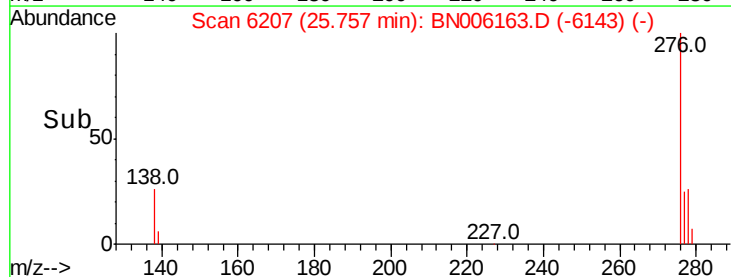
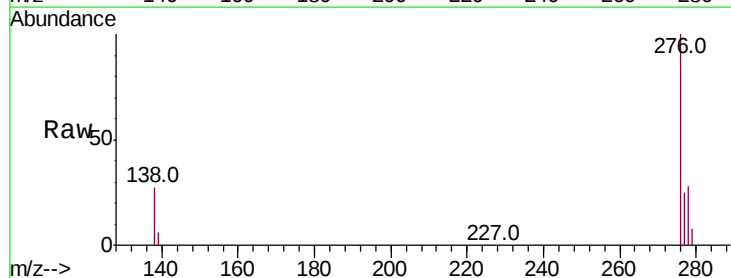
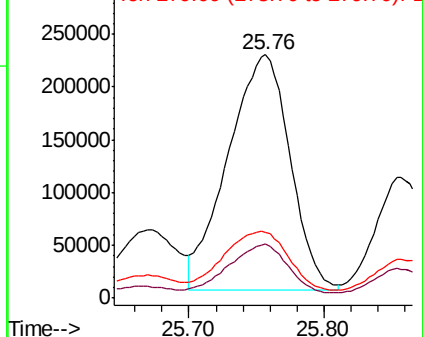
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E

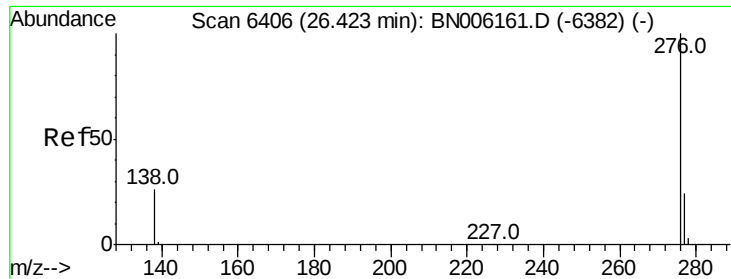


#25  
Dibenzo(a,h)anthracene  
Concen: 10.817 ng/ul m  
RT: 25.76 min Scan# 6207  
Delta R.T. 0.02 min  
Lab File: BN006163.D  
Acq: 07 Jun 2019 09:23

Tgt Ion:278 Resp: 719484  
Ion Ratio Lower Upper  
278 100  
139 22.0 21.2 31.8  
279 27.2 22.6 33.8

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





#26  
 Benzo(a,h,i)perylene  
 Concen: 22.253 ng/ul  
 RT: 26.44 min Scan# 6411  
 Delta R.T. 0.03 min  
 Lab File: BN006163.D  
 Acq: 07 Jun 2019 09:23

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.6  | 24.2  | 36.4  |
| 277     | 24.7  | 21.5  | 32.3  |

Manual Integrations  
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