

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080319\  
 Data File : BM021794.D  
 Acq On : 04 Aug 2019 03:52  
 Operator : HP/JU  
 Sample : K3850-16  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENR8

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Quant Time: Aug 04 05:17:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sun Aug 04 04:24:24 2019

Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.64  | 152  | 1168     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.41 | 136  | 4522     | 0.40   | ng/ul  | -0.03    |
| 6) Acenaphthene-d10         | 14.29 | 164  | 2710     | 0.40   | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.04 | 188  | 7076m    | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.24 | 240  | 7352m    | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.46 | 264  | 7944m    | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 1332     | 0.18   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.08 | 212  | 5226m    | 0.22   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.46 | 128  | 701      | 0.055  | ng/ul# | 78       |
| 5) 2-Methylnaphthalene      | 12.11 | 142  | 379      | 0.045  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.01 | 152  | 1361     | 0.108  | ng/ul# | 94       |
| 8) Acenaphthene             | 14.35 | 153  | 1532     | 0.148  | ng/ul  | 96       |
| 9) Fluorene                 | 15.35 | 166  | 1692     | 0.147  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.09 | 178  | 32629m   | 1.585  | ng/ul  |          |
| 13) Anthracene              | 17.18 | 178  | 7600m    | 0.433  | ng/ul  |          |
| 15) Fluoranthene            | 19.11 | 202  | 59063m   | 2.142  | ng/ul  |          |
| 17) Pyrene                  | 19.47 | 202  | 64838    | 2.146  | ng/ul# | 95       |
| 18) Benzo(a)anthracene      | 21.22 | 228  | 36747    | 1.397  | ng/ul  | 99       |
| 19) Chrysene                | 21.28 | 228  | 37660    | 1.114  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.79 | 252  | 40112m   | 1.497  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.83 | 252  | 15238m   | 0.503  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.36 | 252  | 32400m   | 1.189  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.67 | 276  | 18621m   | 0.572  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.68 | 278  | 4835m    | 0.184  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.36 | 276  | 18777m   | 0.641  | ng/ul  |          |

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

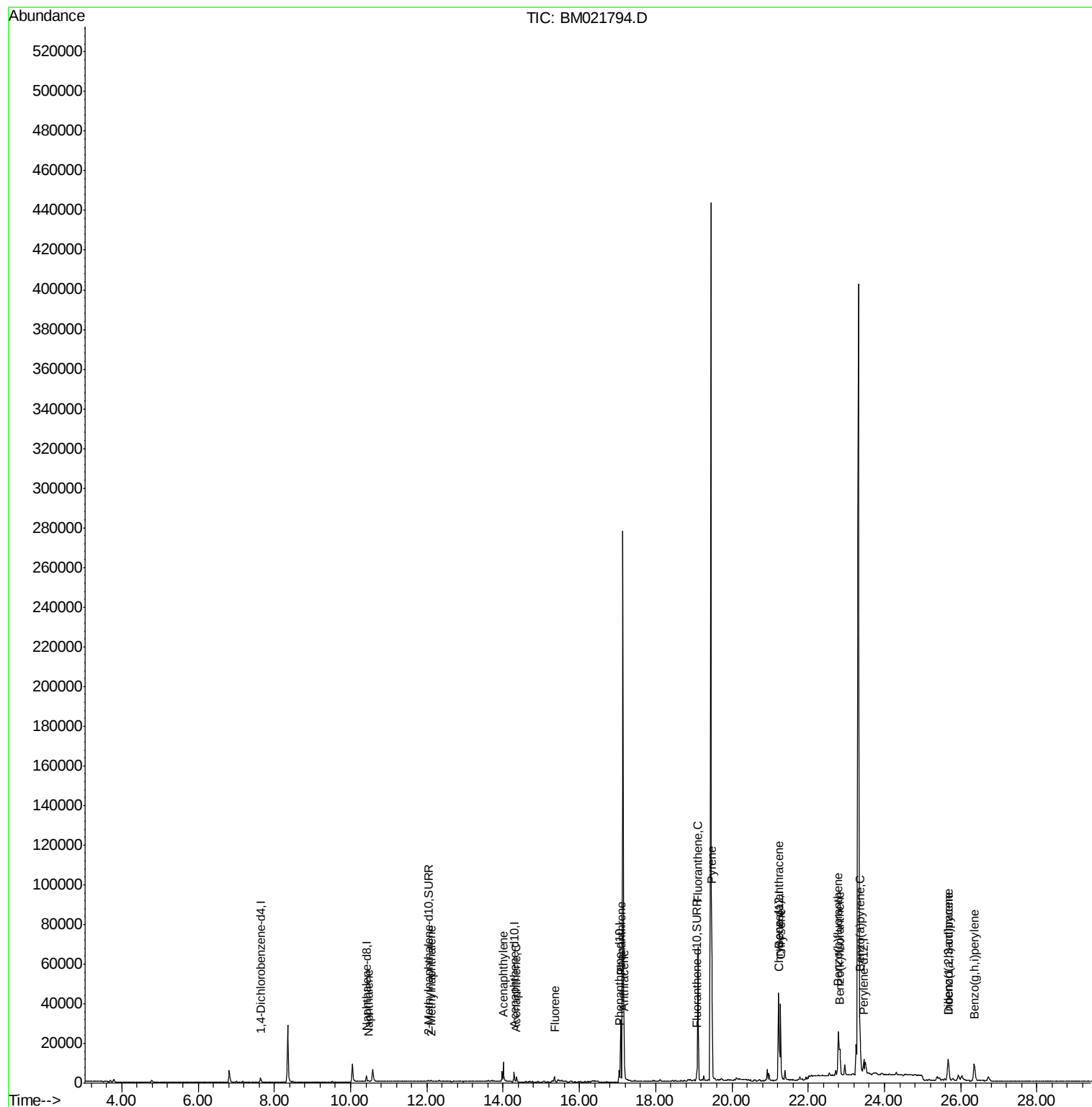
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080319\  
Data File : BM021794.D  
Acq On : 04 Aug 2019 03:52  
Operator : HP/JU  
Sample : K3850-16  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

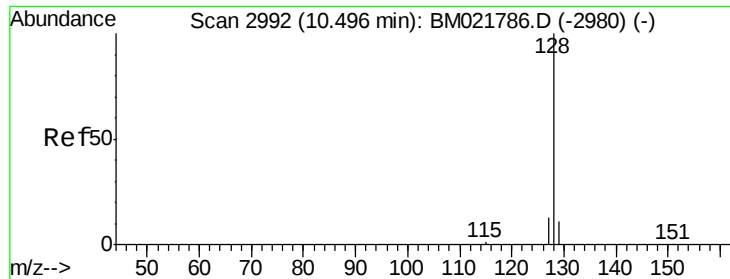
Instrument :  
BNA\_M  
ClientSampleId :  
BENR8

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Quant Time: Aug 04 05:17:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Aug 04 04:24:24 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.055 ng/ul

RT: 10.46 min Scan# 2985

Delta R.T. -0.03 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

Instrument :

BNA\_M

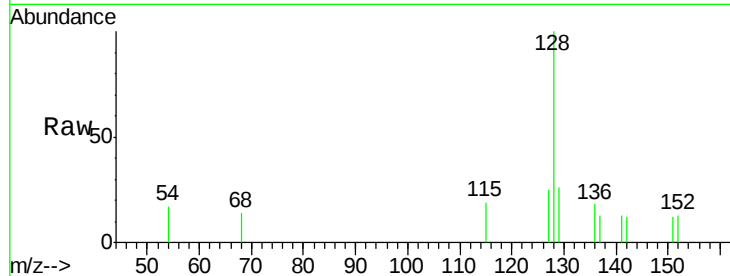
ClientSampleId :

BENR8

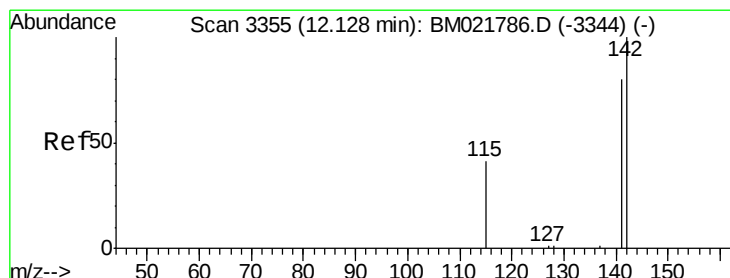
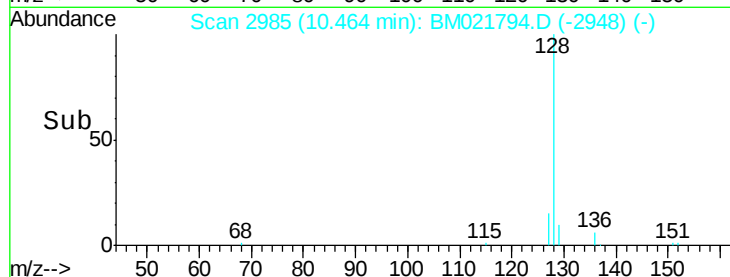
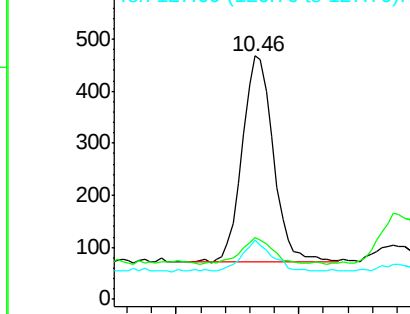
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 701   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 25.6  | 12.3  | 18.5# |
| 127       | 24.6  | 13.0  | 19.6# |

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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: 0.045 ng/ul

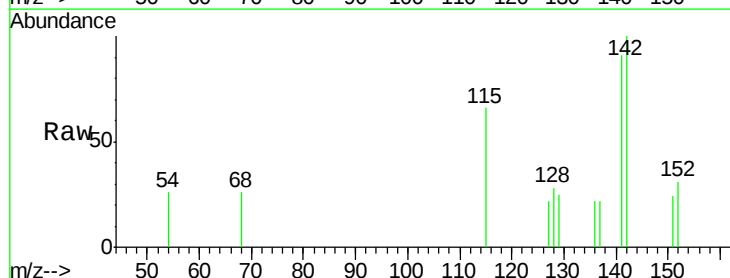
RT: 12.11 min Scan# 3350

Delta R.T. -0.02 min

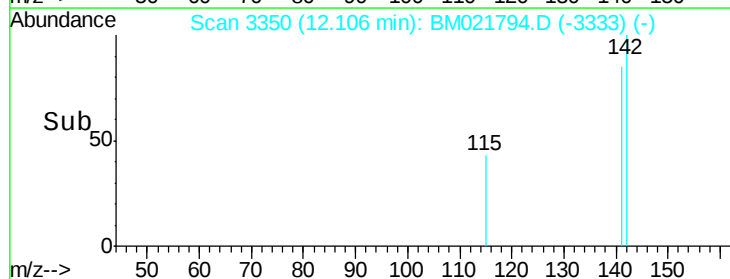
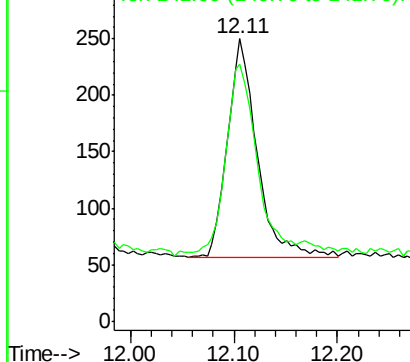
Lab File: BM021794.D

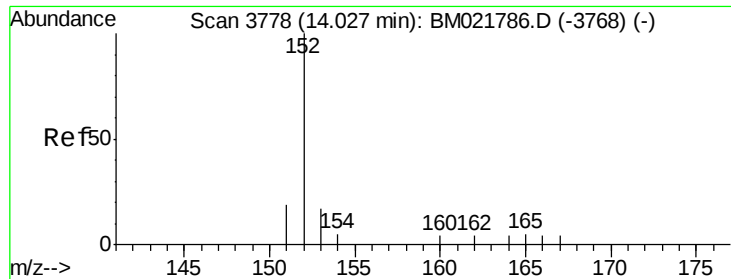
Acq: 04 Aug 2019 03:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 379   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 94.2  | 74.3  | 111.5 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.108 ng/ul

RT: 14.01 min Scan# 3773

Delta R.T. -0.02 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

Instrument :

BNA\_M

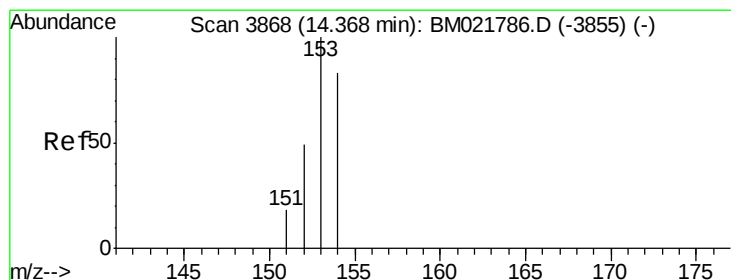
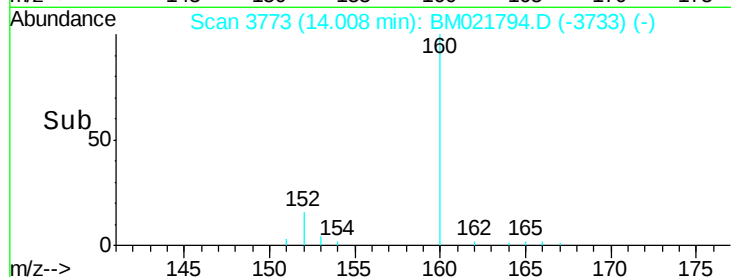
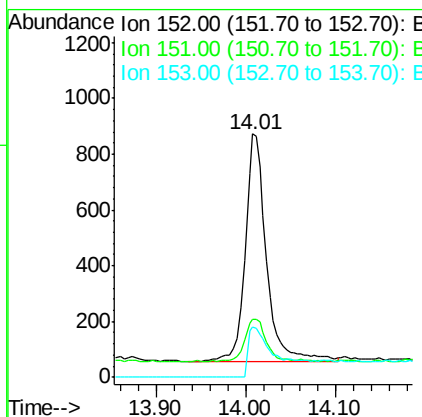
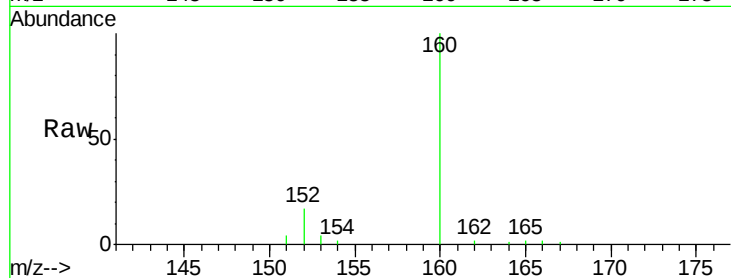
ClientSampleId :

BENR8

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 152     | 100   | 1361 |       |       |
| 151     | 24.1  | 18.3 | 27.5  |       |
| 153     | 20.6  | 12.8 | 19.2  |       |

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#8

Acenaphthene

Concen: 0.148 ng/ul

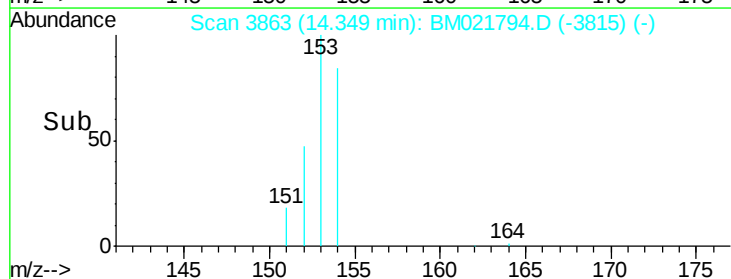
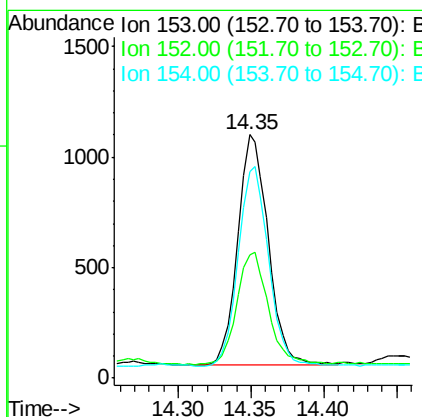
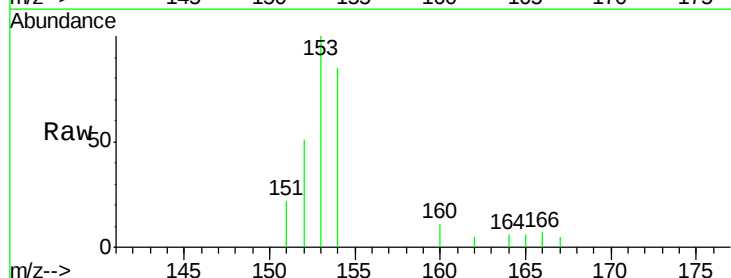
RT: 14.35 min Scan# 3863

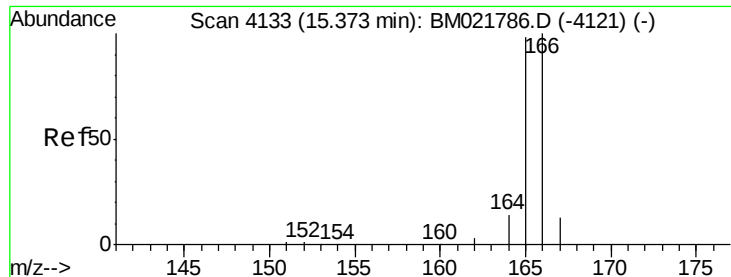
Delta R.T. -0.02 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 153     | 100   | 1532 |       |       |
| 152     | 50.6  | 41.3 | 61.9  |       |
| 154     | 84.7  | 72.3 | 108.5 |       |





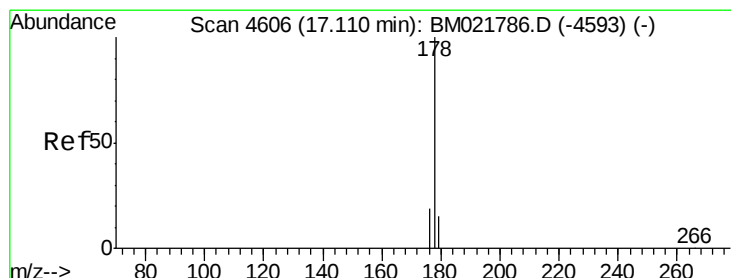
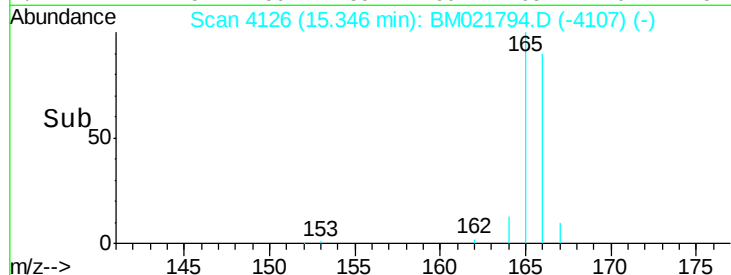
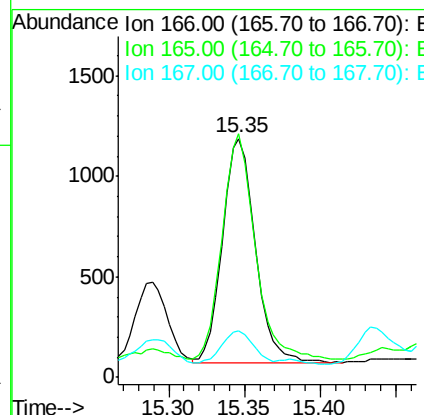
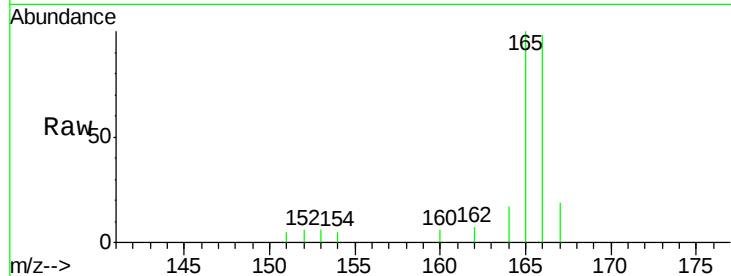
#9  
**Fluorene**  
 Concen: 0.147 ng/ul  
 RT: 15.35 min Scan# 4126  
 Delta R.T. -0.03 min  
 Lab File: BM021794.D  
 Acq: 04 Aug 2019 03:52

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENR8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.9 | 81.4  | 122.0 |
| 167     | 19.3  | 13.7  | 20.5  |

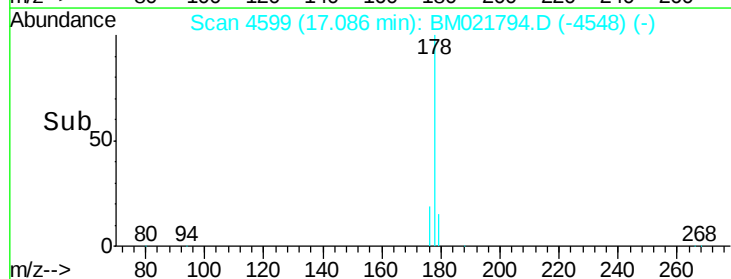
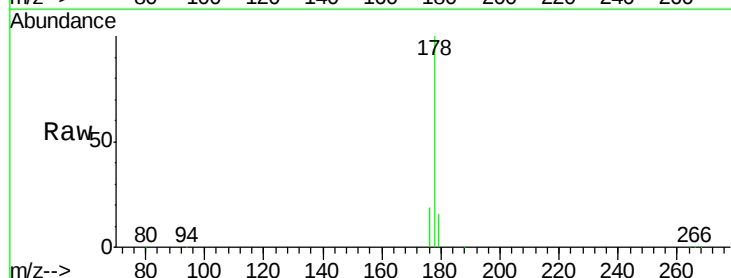
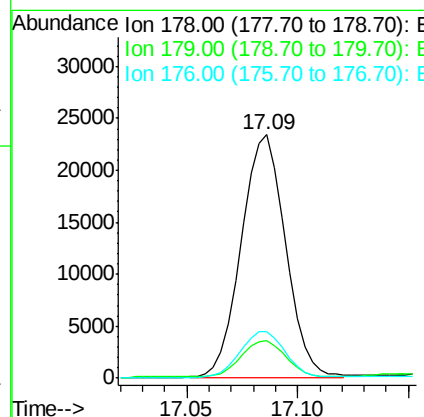
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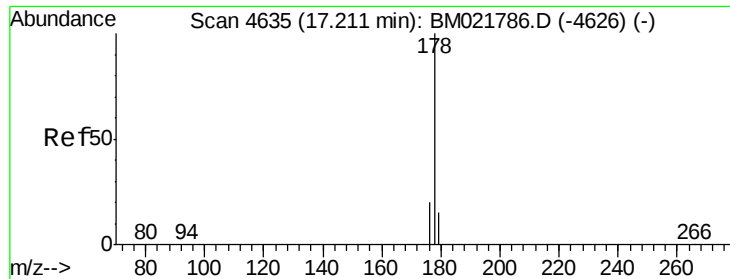
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#12  
**Phenanthrene**  
 Concen: 1.585 ng/ul m  
 RT: 17.09 min Scan# 4599  
 Delta R.T. -0.02 min  
 Lab File: BM021794.D  
 Acq: 04 Aug 2019 03:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 14.2  | 21.2  |
| 176     | 19.3  | 16.8  | 25.2  |





#13

Anthracene

Concen: 0.433 ng/ul m

RT: 17.18 min Scan# 4625

Delta R.T. -0.03 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

Instrument :

BNA\_M

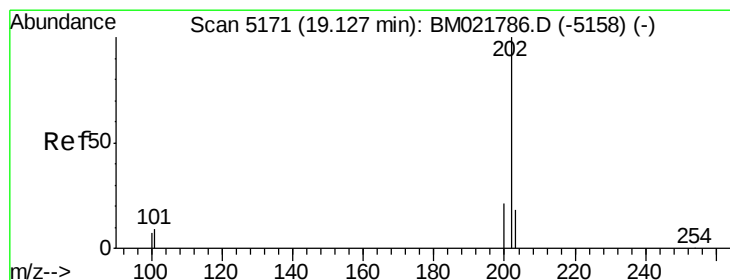
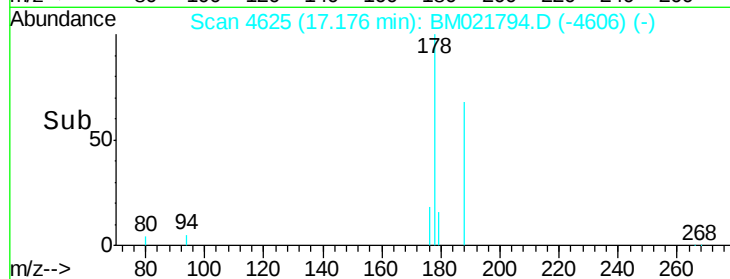
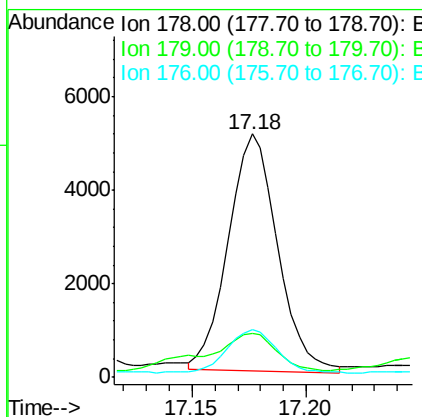
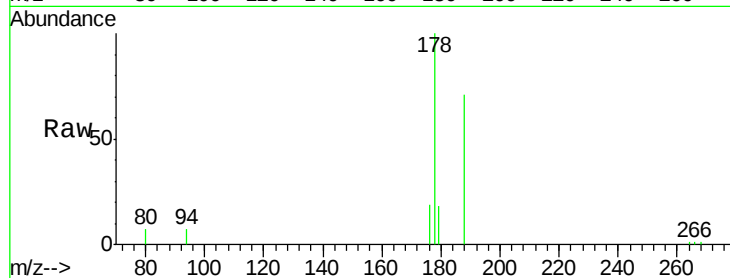
ClientSampleId :

BENR8

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 7600 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 18.2  | 15.5  | 23.3 |
| 176       | 19.5  | 16.6  | 25.0 |

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#15

Fluoranthene

Concen: 2.142 ng/ul m

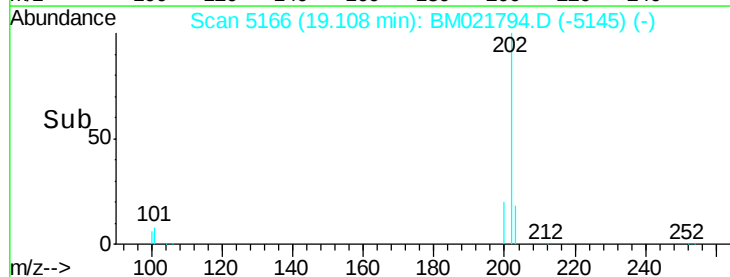
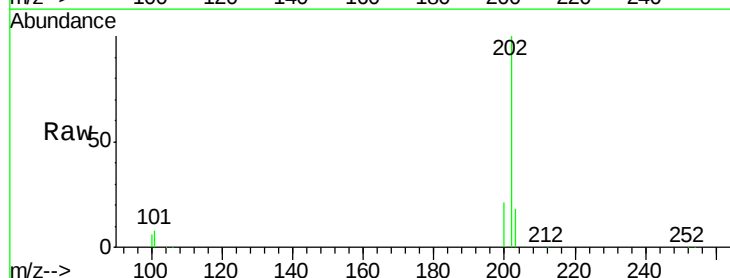
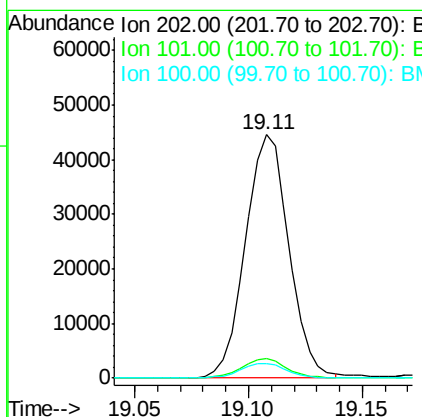
RT: 19.11 min Scan# 5166

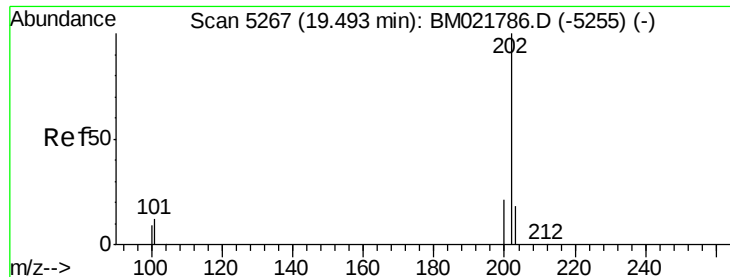
Delta R.T. -0.02 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 59063 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.0   | 0.0   | 30.2  |
| 100       | 6.2   | 0.0   | 28.1  |





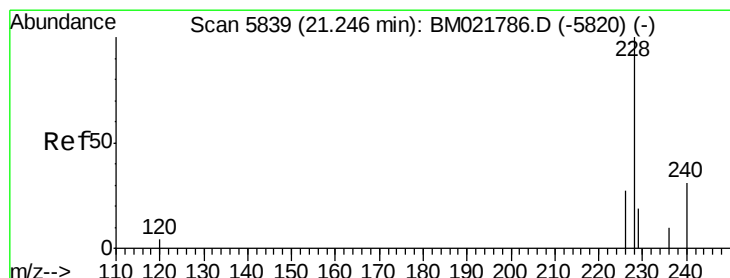
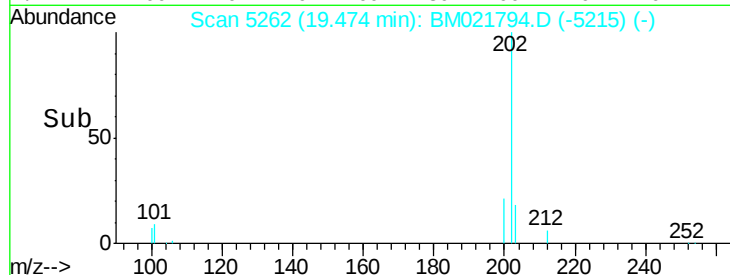
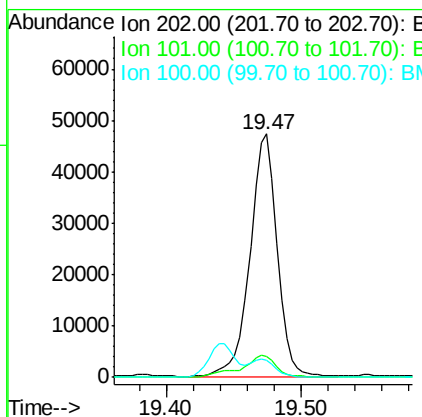
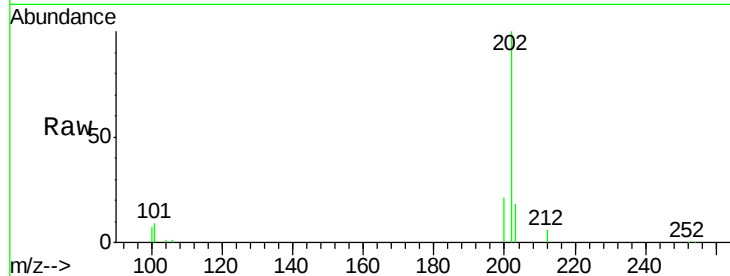
#17  
 Pyrene  
 Concen: 2.146 ng/ul  
 RT: 19.47 min Scan# 5262  
 Delta R.T. -0.02 min  
 Lab File: BM021794.D  
 Acq: 04 Aug 2019 03:52

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENR8

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 8.7   | 8.3        | 12.5       |
| 100     | 7.1   | 7.2        | 10.8       |

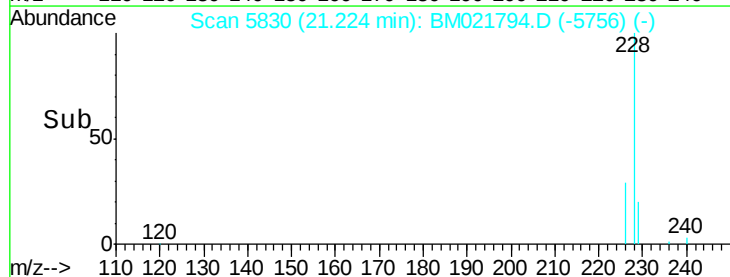
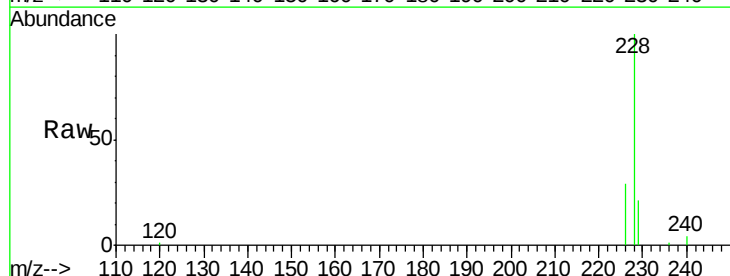
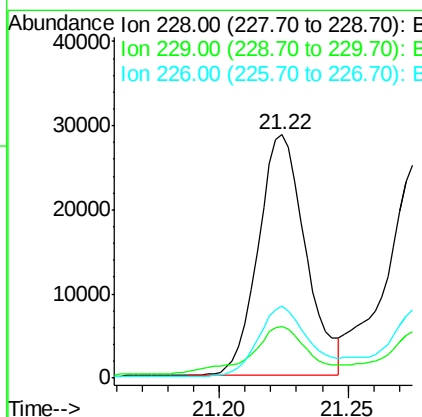
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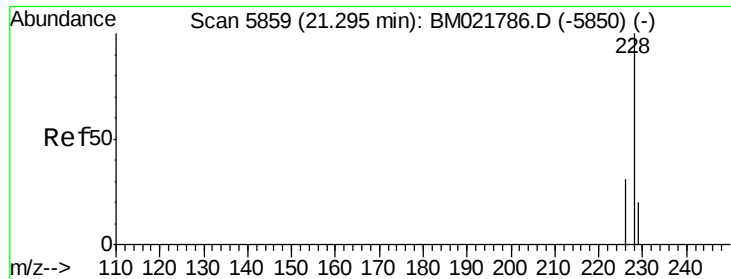
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#18  
 Benzo(a)anthracene  
 Concen: 1.397 ng/ul  
 RT: 21.22 min Scan# 5830  
 Delta R.T. -0.02 min  
 Lab File: BM021794.D  
 Acq: 04 Aug 2019 03:52

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 21.4  | 17.2       | 25.8       |
| 226     | 29.4  | 22.6       | 34.0       |





#19

Chrysene

Concen: 1.114 ng/ul

RT: 21.28 min Scan# 5851

Delta R.T. -0.02 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

Instrument :

BNA\_M

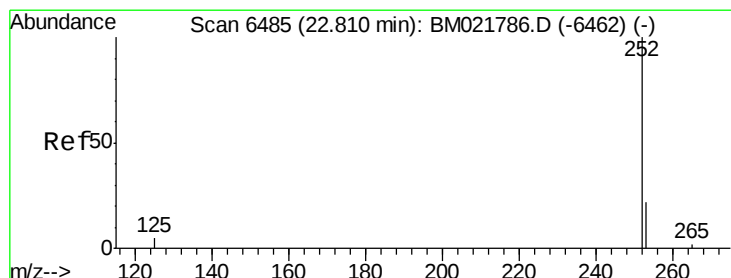
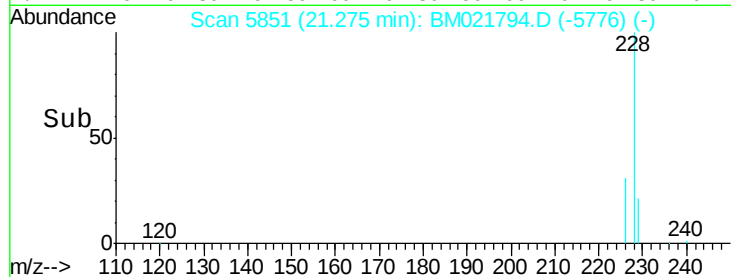
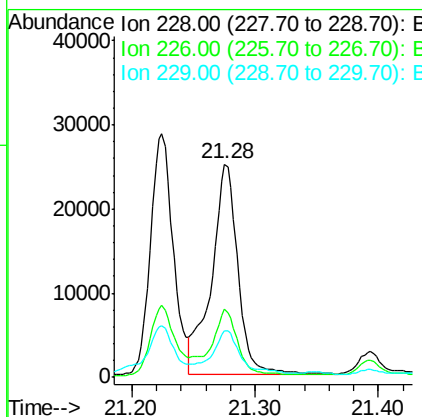
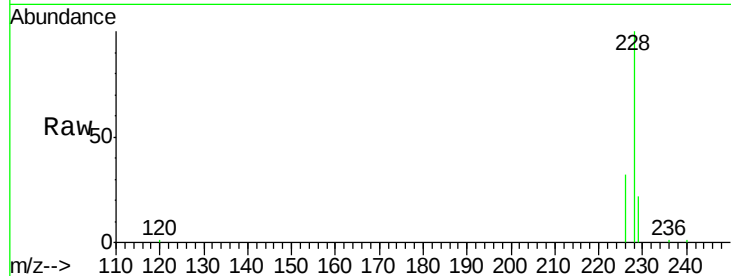
ClientSampleId :

BENR8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 37660 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.7  | 24.9  | 37.3  |
| 229       | 21.9  | 16.6  | 25.0  |

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#21

Benzo(b)fluoranthene

Concen: 1.497 ng/ul m

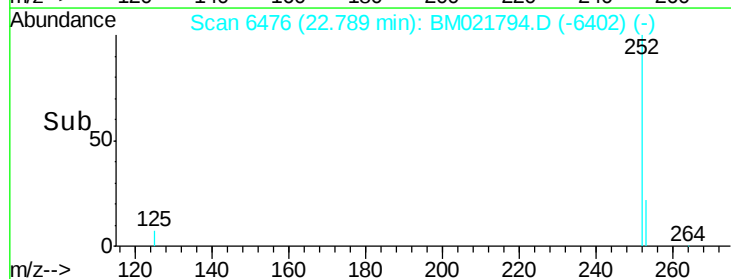
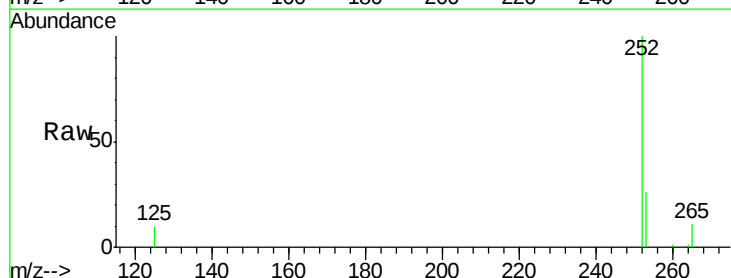
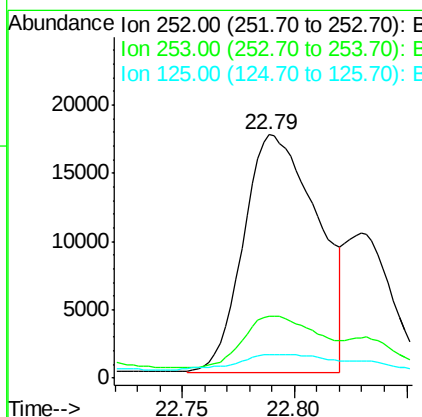
RT: 22.79 min Scan# 6476

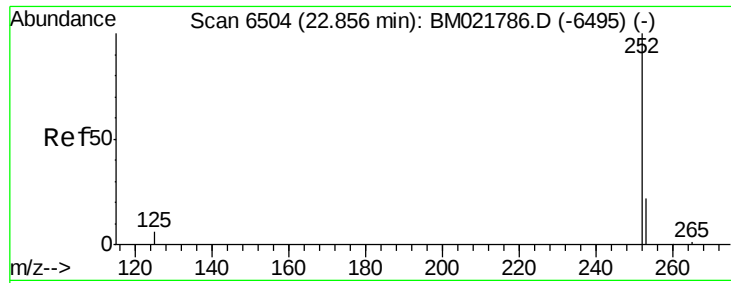
Delta R.T. -0.02 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 40112 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.6  | 0.0   | 67.4  |
| 125       | 9.6   | 0.0   | 31.0  |





#22

Benzo(k)fluoranthene

Concen: 0.503 ng/ul m

RT: 22.83 min Scan# 6493

Delta R.T. -0.03 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

Instrument :

BNA\_M

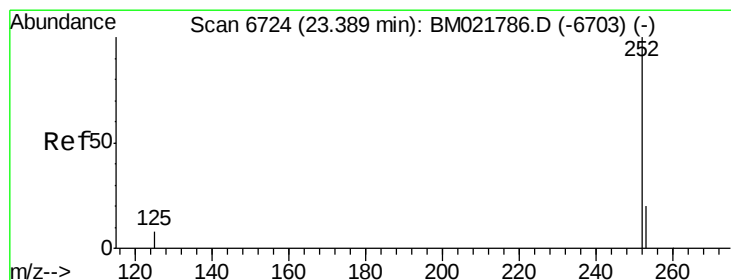
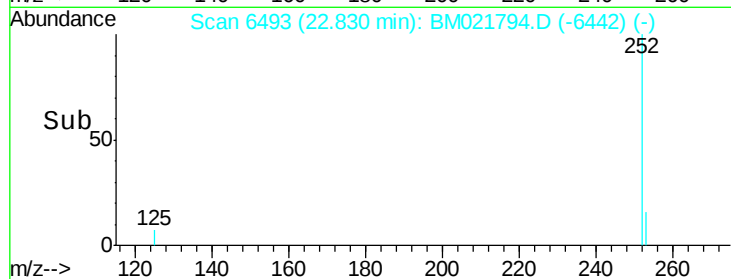
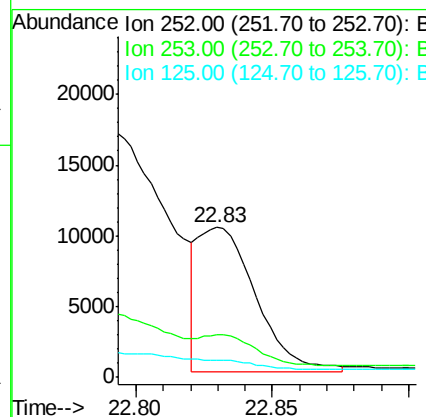
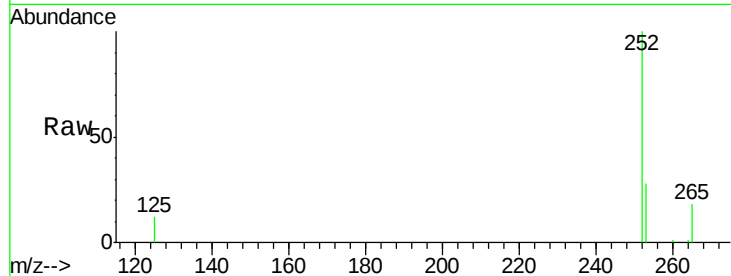
ClientSampleId :

BENR8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 15238 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.1  | 27.0  | 40.4  |
| 125       | 11.8  | 12.2  | 18.2# |

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#23

Benzo(a)pyrene

Concen: 1.189 ng/ul m

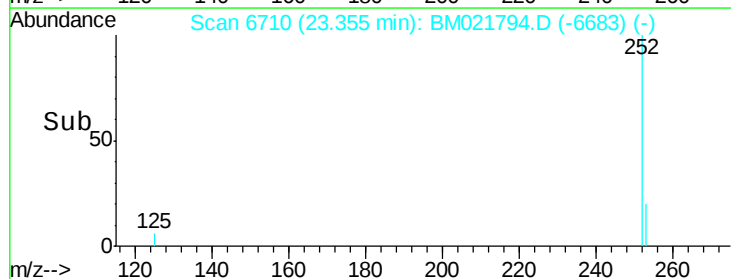
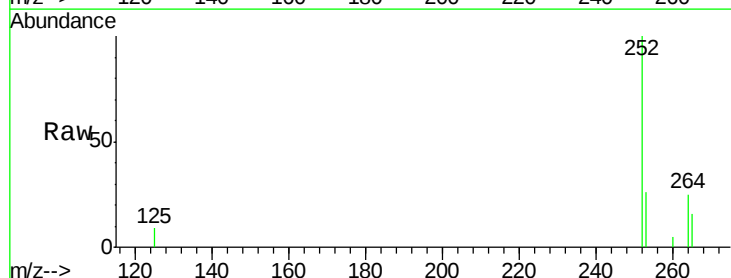
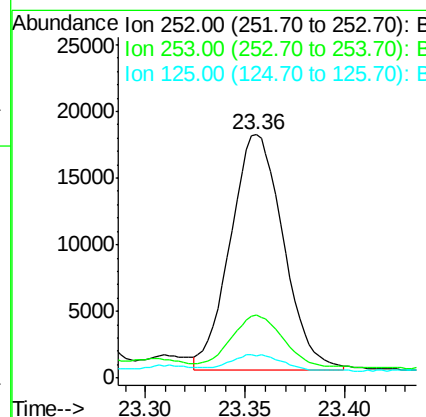
RT: 23.36 min Scan# 6710

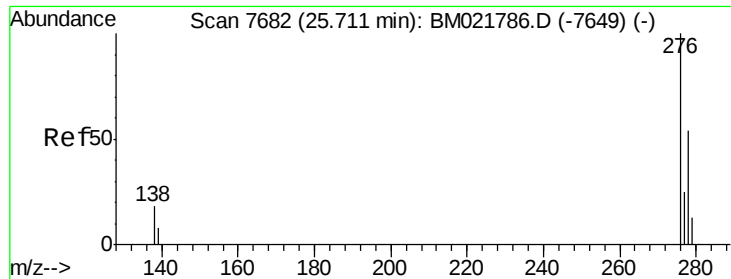
Delta R.T. -0.03 min

Lab File: BM021794.D

Acq: 04 Aug 2019 03:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 32400 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 31.7  | 47.5# |
| 125       | 9.4   | 14.6  | 21.8# |





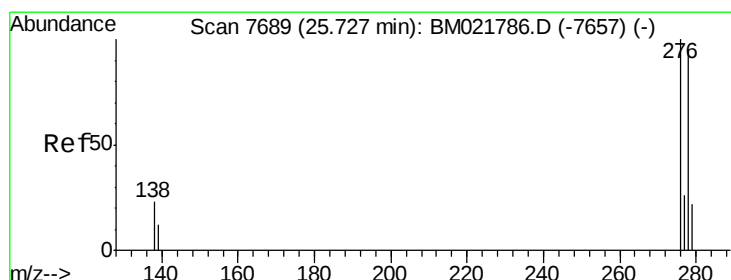
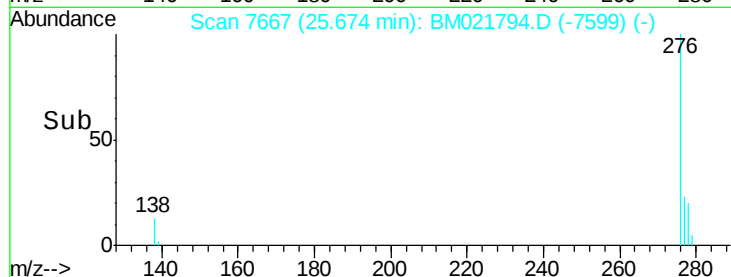
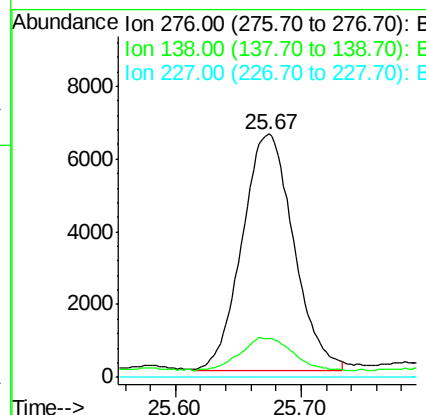
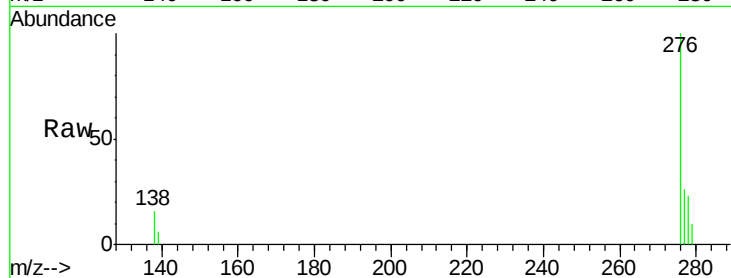
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.572 ng/ul m  
RT: 25.67 min Scan# 7667  
Delta R.T. -0.04 min  
Lab File: BM021794.D  
Acq: 04 Aug 2019 03:52

Instrument :  
BNA\_M  
ClientSampleId :  
BENR8

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 18621 |       |       |
| 138     | 0.0   | 15.1  | 22.7# |       |
| 227     | 0.0   | 0.0   | 0.0   |       |

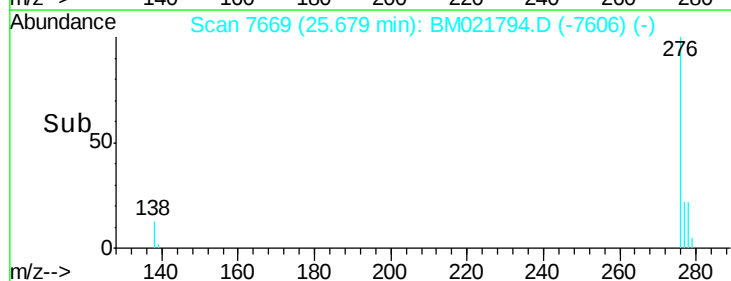
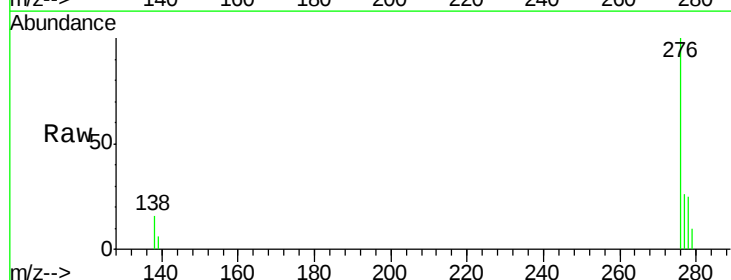
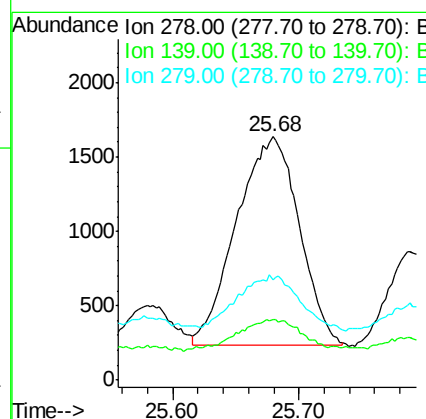
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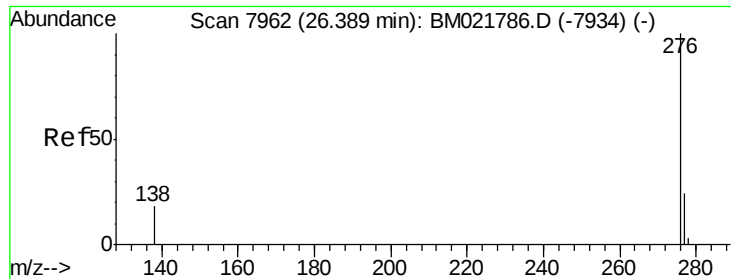
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.184 ng/ul m  
RT: 25.68 min Scan# 7669  
Delta R.T. -0.05 min  
Lab File: BM021794.D  
Acq: 04 Aug 2019 03:52

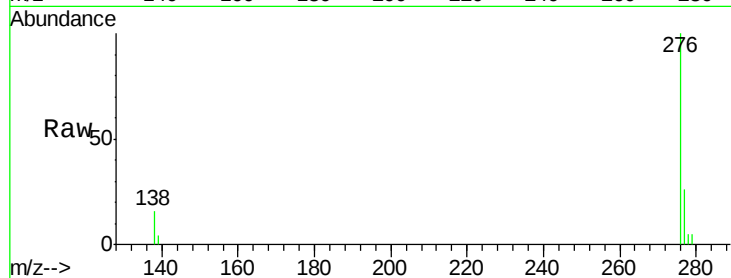
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 278     | 100   | 4835 |       |       |
| 139     | 24.8  | 14.2 | 21.2# |       |
| 279     | 41.1  | 28.3 | 42.5  |       |





#26  
Benzo(g,h,i)perylene  
Concen: 0.641 ng/ul m  
RT: 26.36 min Scan# 7949  
Delta R.T. -0.03 min  
Lab File: BM021794.D  
Acq: 04 Aug 2019 03:52

Instrument :  
BNA\_M  
ClientSampleId :  
BENR8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 18777 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 15.9  | 15.5  | 23.3  |
| 277       | 25.7  | 21.4  | 32.2  |

Manual Integrations  
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