

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
 Data File : BM021925.D  
 Acq On : 08 Aug 2019 10:05  
 Operator : HP/JU  
 Sample : K4029-08  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENX9

Manual Integrations  
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 8/9/2019 6:12:07 AM

Quant Time: Aug 08 13:27:40 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 : Thu Aug 08 06:54:24 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 744      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.40 | 136  | 3280     | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.27 | 164  | 1807     | 0.40   | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.03 | 188  | 4256m    | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.24 | 240  | 3971m    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.45 | 264  | 3695m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 1930     | 0.36   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.07 | 212  | 4848m    | 0.34   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.45 | 128  | 373      | 0.040  | ng/ul# | 69       |
| 5) 2-Methylnaphthalene      | 12.09 | 142  | 181      | 0.029  | ng/ul  | 87       |
| 7) Acenaphthylene           | 13.99 | 152  | 1029     | 0.122  | ng/ul# | 81       |
| 8) Acenaphthene             | 14.33 | 153  | 231      | 0.033  | ng/ul# | 93       |
| 9) Fluorene                 | 15.33 | 166  | 332      | 0.043  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.07 | 178  | 6635     | 0.536  | ng/ul  | 98       |
| 13) Anthracene              | 17.17 | 178  | 1824m    | 0.173  | ng/ul  |          |
| 15) Fluoranthene            | 19.10 | 202  | 18475m   | 1.114  | ng/ul  |          |
| 17) Pyrene                  | 19.46 | 202  | 17599    | 1.079  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.22 | 228  | 9256     | 0.652  | ng/ul  | 99       |
| 19) Chrysene                | 21.27 | 228  | 9802     | 0.537  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.79 | 252  | 13659m   | 1.096  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.82 | 252  | 5557m    | 0.394  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.35 | 252  | 9460m    | 0.747  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.67 | 276  | 6461m    | 0.427  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.67 | 278  | 1756m    | 0.144  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 26.35 | 276  | 5227m    | 0.384  | ng/ul  |          |

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

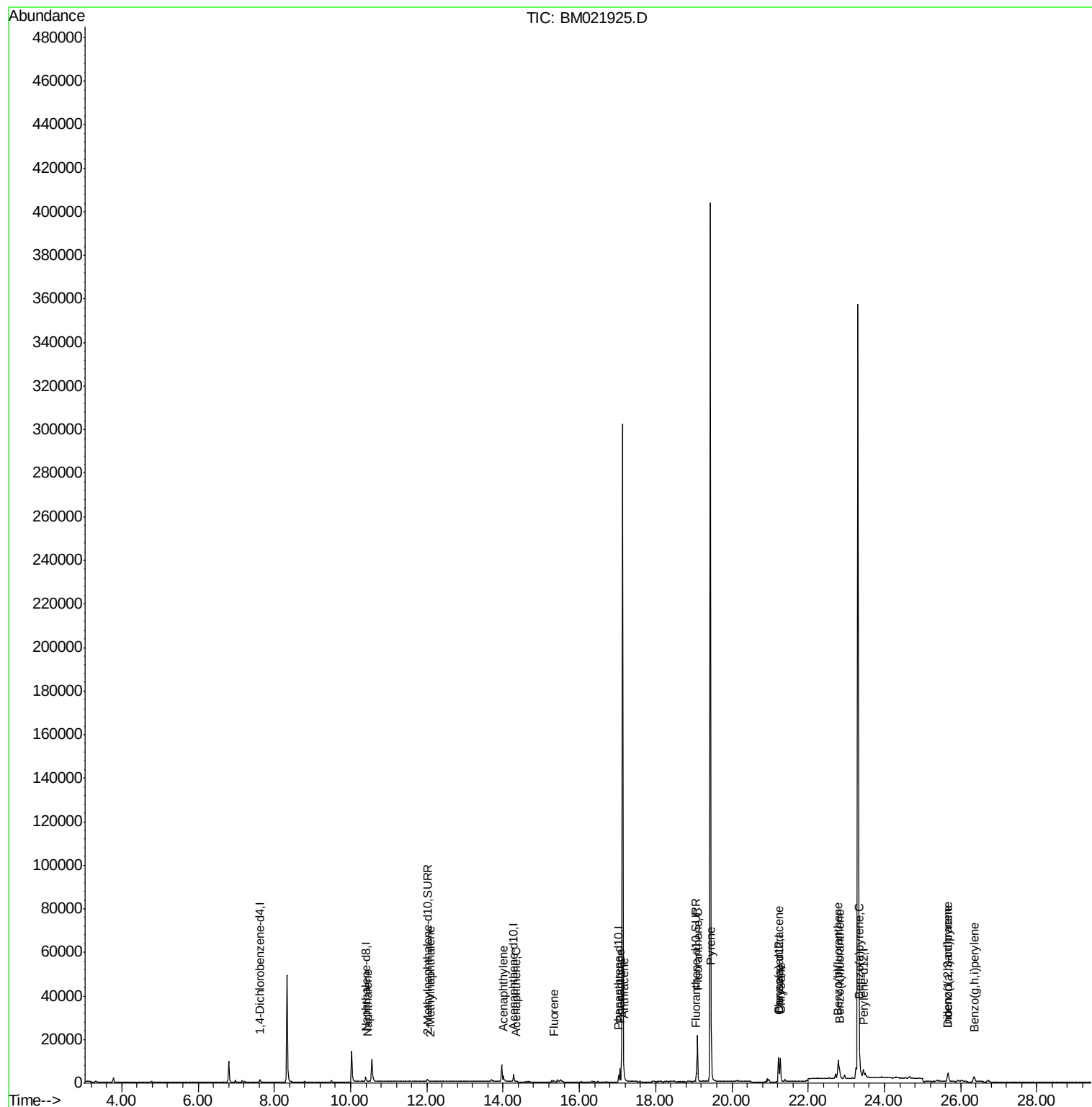
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
Data File : BM021925.D  
Acq On : 08 Aug 2019 10:05  
Operator : HP/JU  
Sample : K4029-08  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

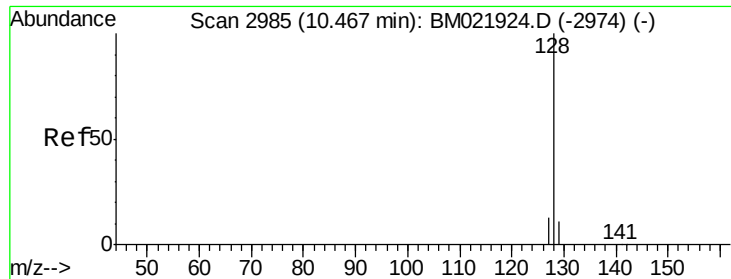
Instrument :  
BNA\_M  
ClientSampleId :  
BENX9

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Quant Time: Aug 08 13:27:40 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 : Thu Aug 08 06:54:24 2019  
Response via : Initial Calibration





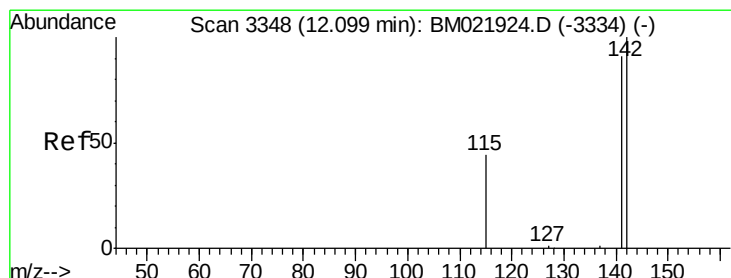
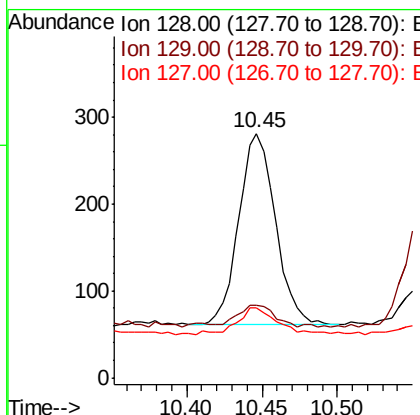
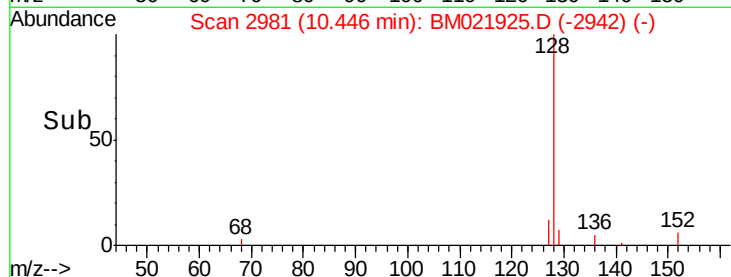
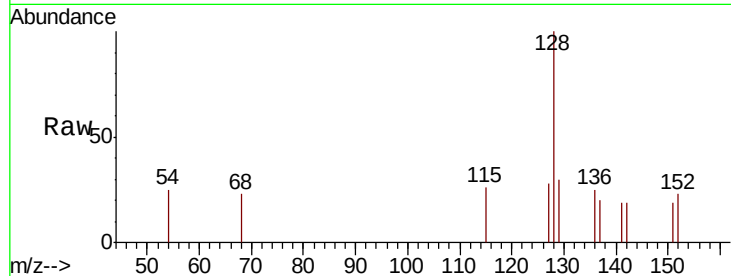
#3  
Naphthalene  
Concen: 0.040 ng/ul  
RT: 10.45 min Scan# 2981  
Delta R.T. -0.02 min  
Lab File: BM021925.D  
Acq: 08 Aug 2019 10:05

Instrument :  
BNA\_M  
ClientSampleId :  
BENX9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 29.5  | 12.3  | 18.5# |
| 127     | 28.5  | 13.0  | 19.6# |

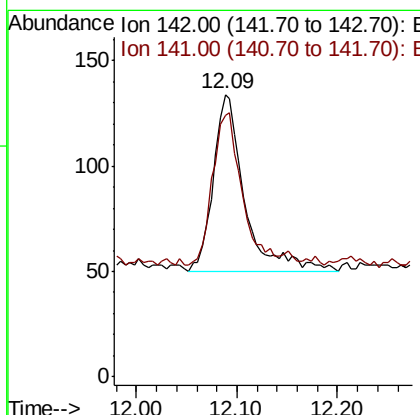
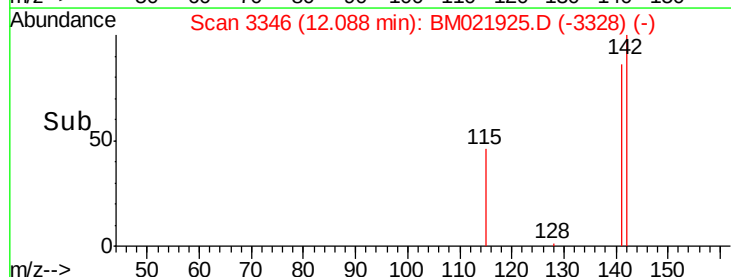
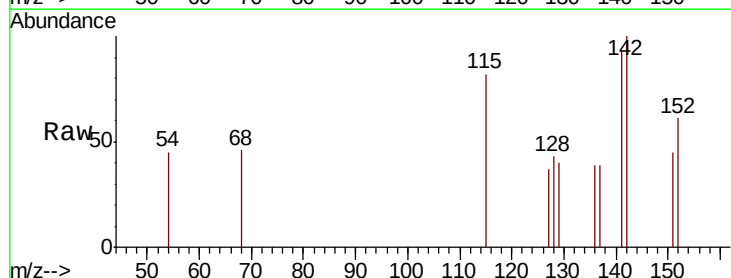
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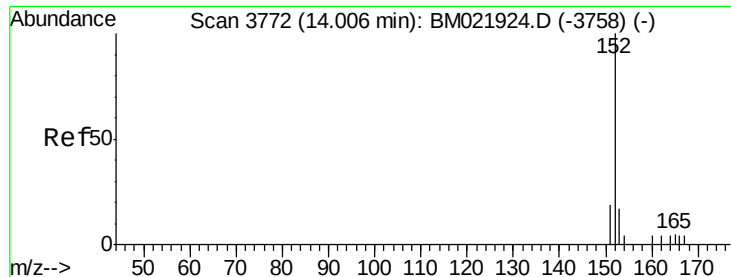
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#5  
2-Methylnaphthalene  
Concen: 0.029 ng/ul  
RT: 12.09 min Scan# 3346  
Delta R.T. -0.02 min  
Lab File: BM021925.D  
Acq: 08 Aug 2019 10:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 80.1  | 74.3  | 111.5 |





#7

Acenaphthylene

Concen: 0.122 ng/ul

RT: 13.99 min Scan# 3770

Delta R.T. -0.01 min

Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

Instrument :

BNA\_M

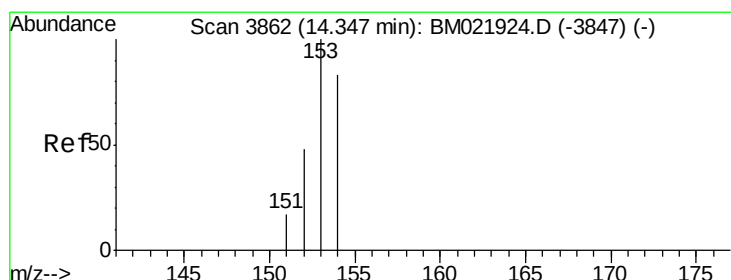
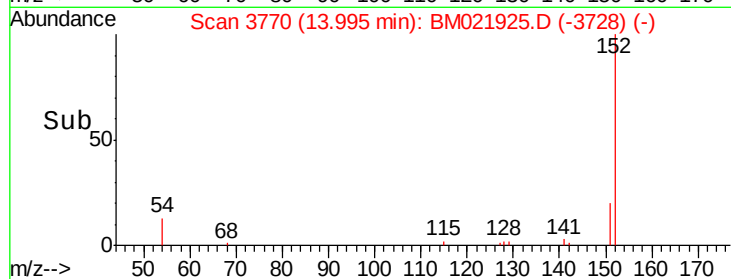
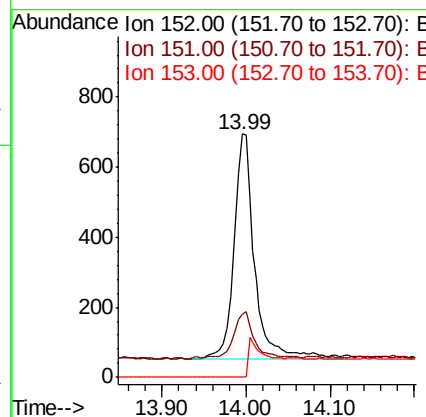
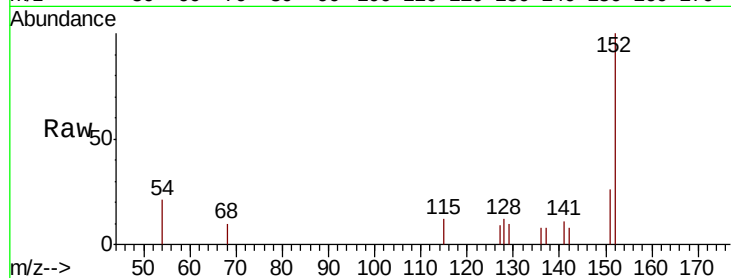
ClientSampleId :

BENX9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1029  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 26.0  | 18.3  | 27.5  |
| 153       | 0.0   | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.033 ng/ul

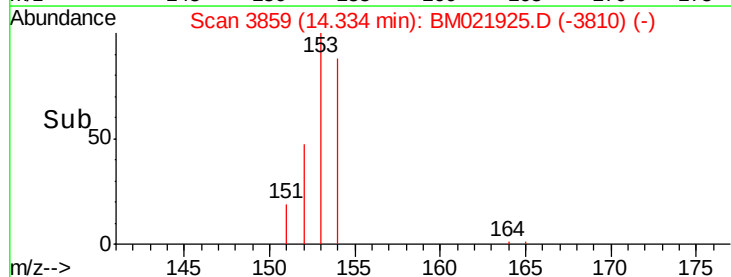
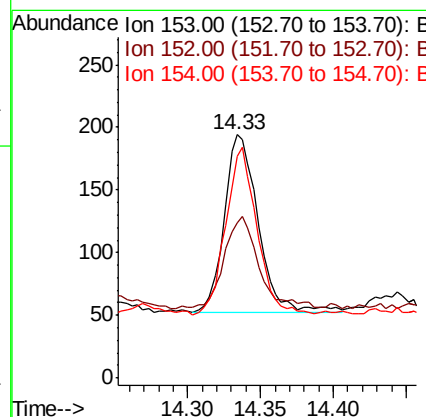
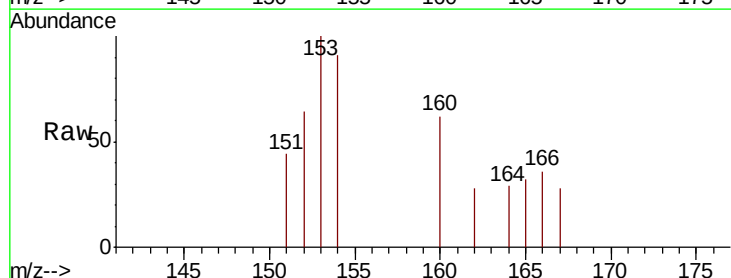
RT: 14.33 min Scan# 3859

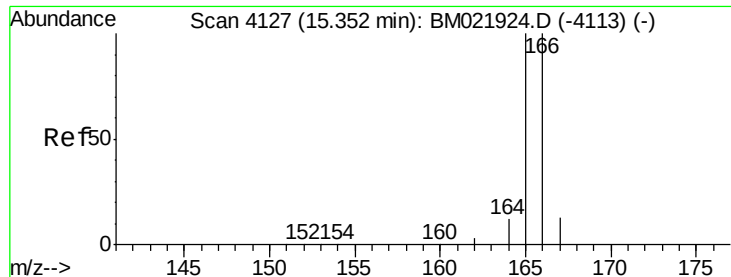
Delta R.T. -0.02 min

Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 231   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 63.9  | 41.3  | 61.9# |
| 154       | 91.2  | 72.3  | 108.5 |





#9

Fluorene

Concen: 0.043 ng/ul

RT: 15.33 min Scan# 4122

Delta R.T. -0.02 min

Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

Instrument :

BNA\_M

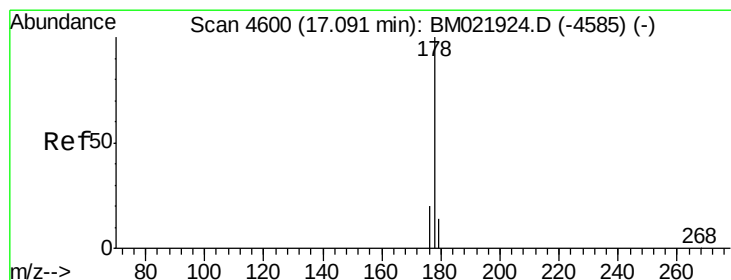
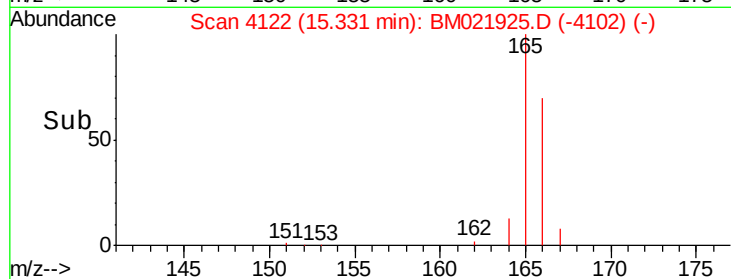
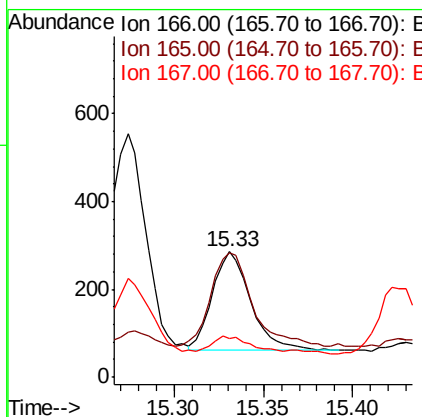
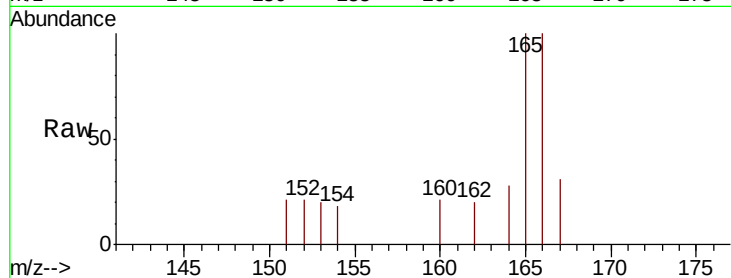
ClientSampleId :

BENX9

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 332   |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.6  | 81.4  | 122.0 |
| 167      | 31.2  | 13.7  | 20.5# |

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#12

Phenanthrene

Concen: 0.536 ng/ul

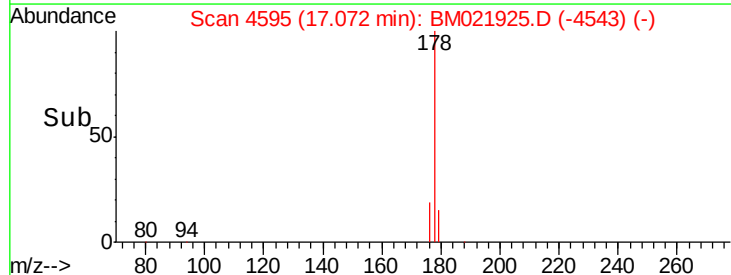
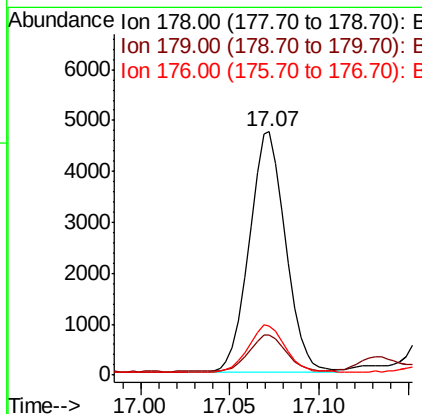
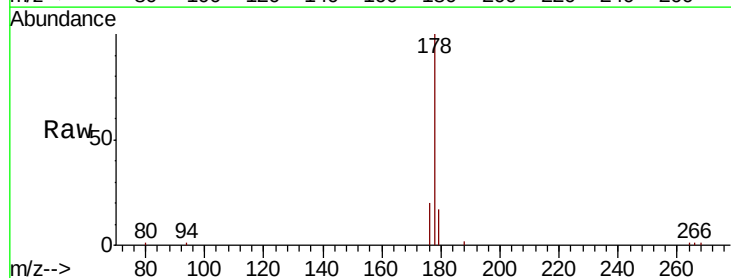
RT: 17.07 min Scan# 4595

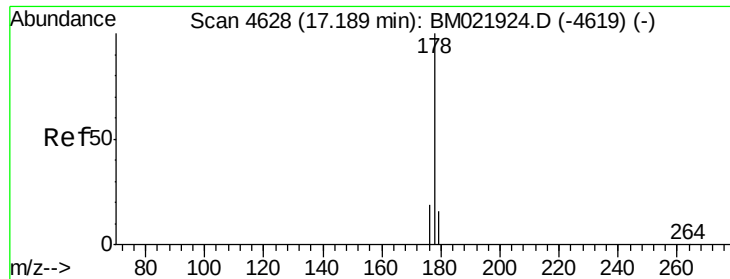
Delta R.T. -0.02 min

Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 6635  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 16.7  | 14.2  | 21.2  |
| 176      | 20.4  | 16.8  | 25.2  |





#13

Anthracene

Concen: 0.173 ng/ul m

RT: 17.17 min Scan# 4622

Delta R.T. -0.02 min

Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

Instrument :

BNA\_M

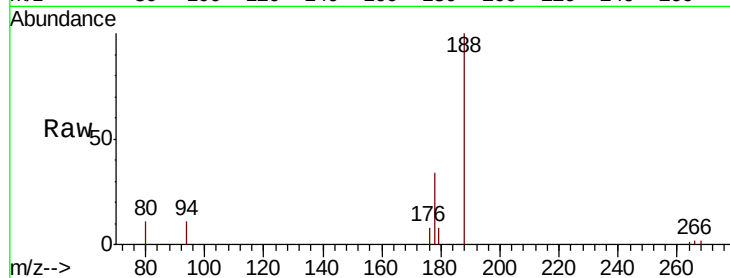
ClientSampleId :

BENX9

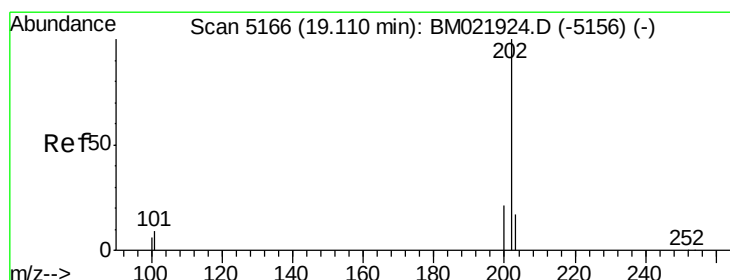
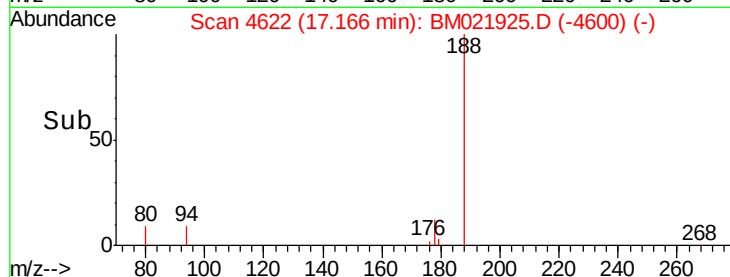
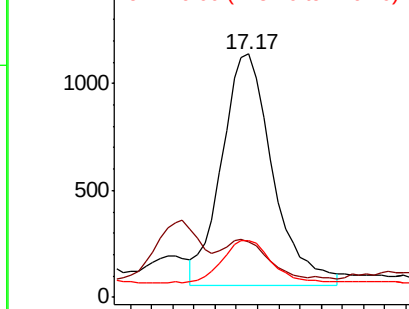
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 1824  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 22.7  | 15.5  | 23.3  |
| 176      | 23.4  | 16.6  | 25.0  |

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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: 1.114 ng/ul m

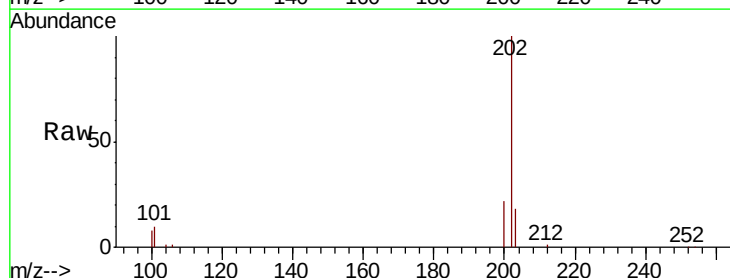
RT: 19.10 min Scan# 5163

Delta R.T. -0.02 min

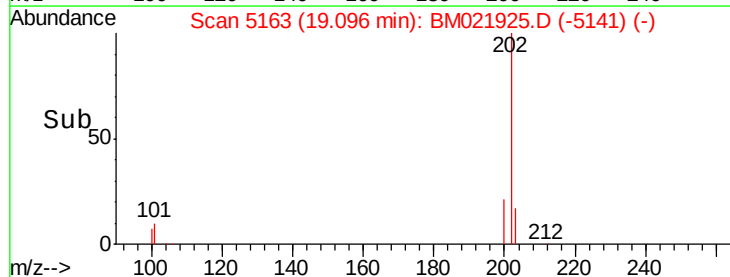
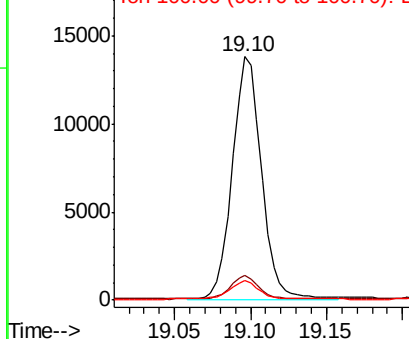
Lab File: BM021925.D

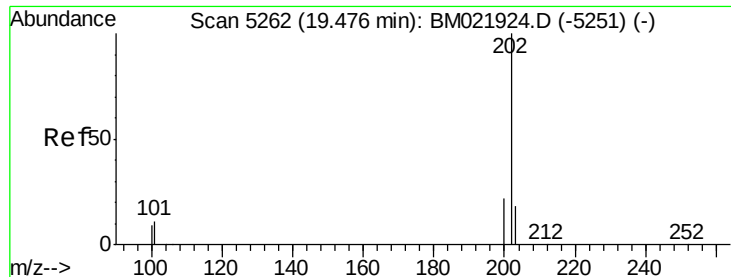
Acq: 08 Aug 2019 10:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 18475 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 10.0  | 0.0   | 30.2  |
| 100      | 7.8   | 0.0   | 28.1  |



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





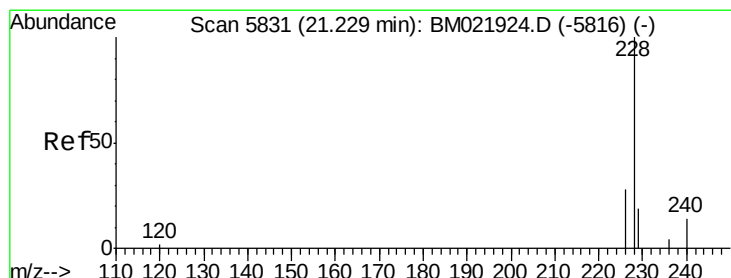
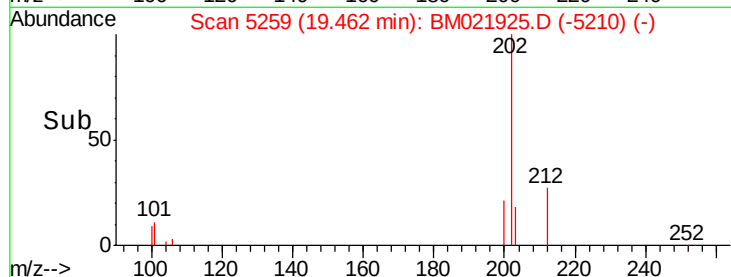
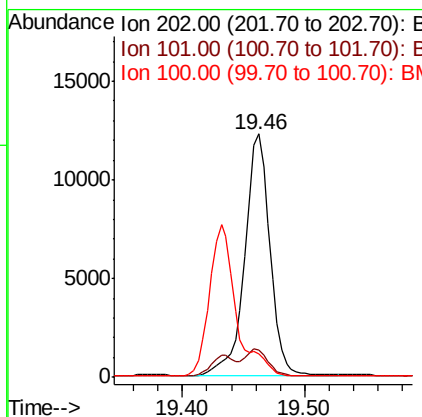
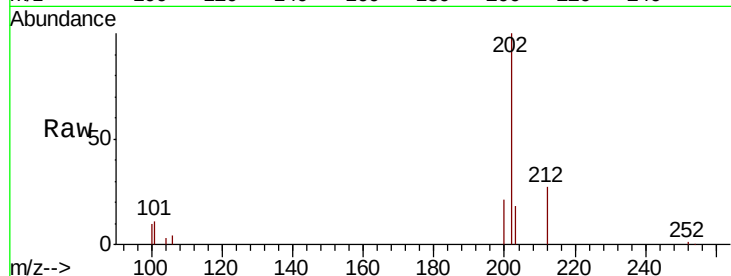
#17  
 Pvrene  
 Concen: 1.079 ng/ul  
 RT: 19.46 min Scan# 5259  
 Delta R.T. -0.01 min  
 Lab File: BM021925.D  
 Acq: 08 Aug 2019 10:05

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENX9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.3  | 8.3   | 12.5  |
| 100     | 9.8   | 7.2   | 10.8  |

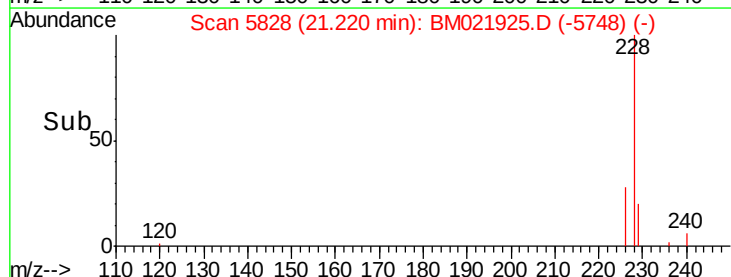
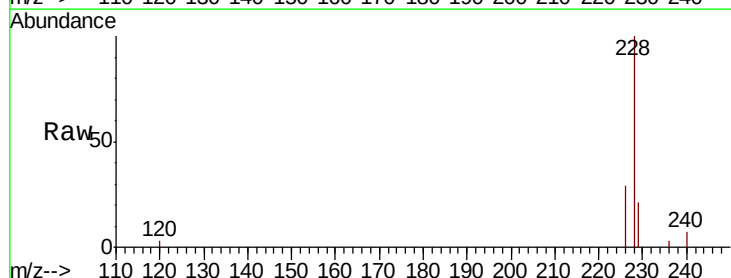
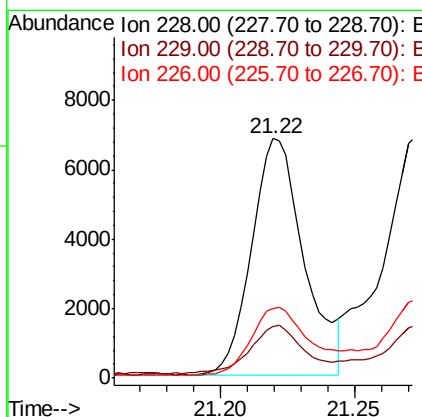
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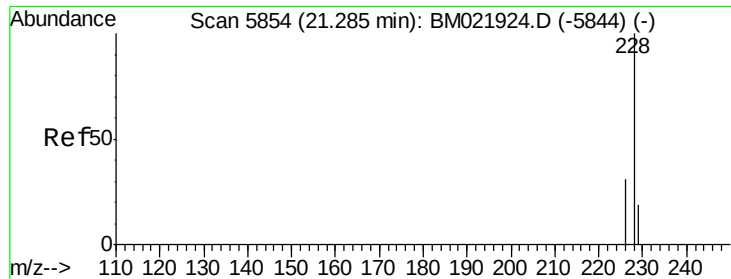
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#18  
 Benzo(a)anthracene  
 Concen: 0.652 ng/ul  
 RT: 21.22 min Scan# 5828  
 Delta R.T. -0.01 min  
 Lab File: BM021925.D  
 Acq: 08 Aug 2019 10:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.4  | 17.2  | 25.8  |
| 226     | 29.3  | 22.6  | 34.0  |





#19

Chrysene

Concen: 0.537 ng/ul

RT: 21.27 min Scan# 5850

Delta R.T. -0.00 min

Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

Instrument :

BNA\_M

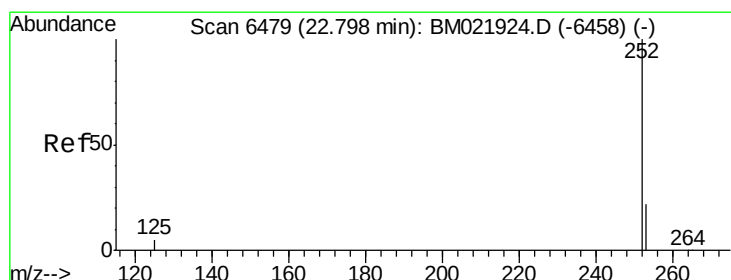
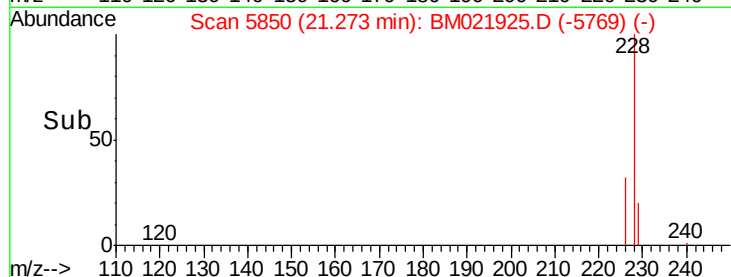
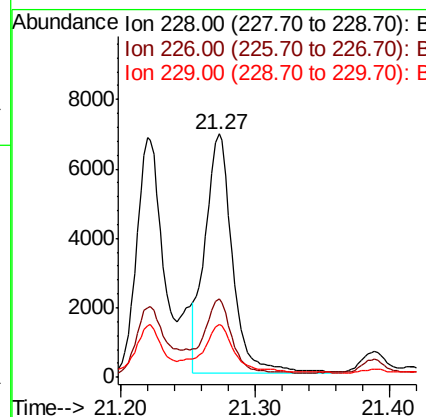
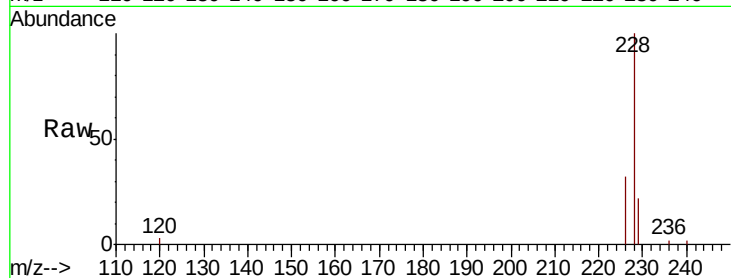
ClientSampleId :

BENX9

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 9802  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 32.4  | 24.9  | 37.3  |
| 229      | 21.6  | 16.6  | 25.0  |

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#21

Benzo(b)fluoranthene

Concen: 1.096 ng/ul m

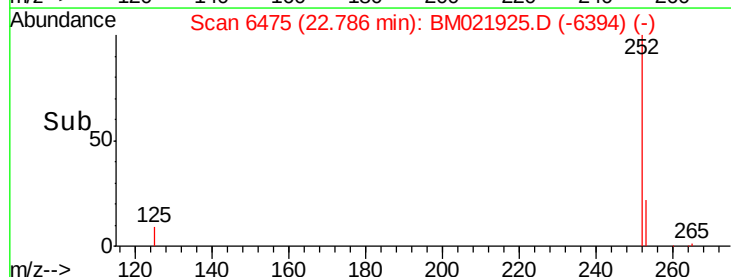
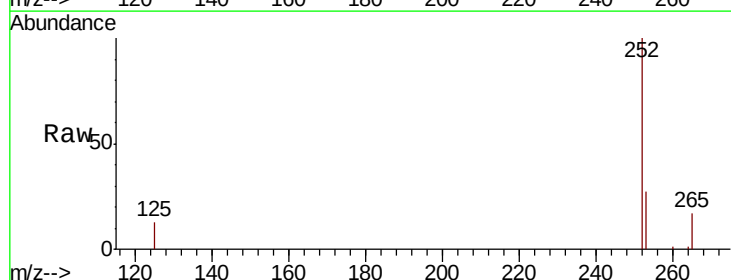
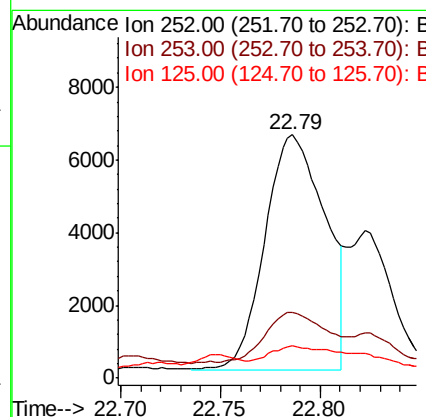
RT: 22.79 min Scan# 6475

Delta R.T. -0.00 min

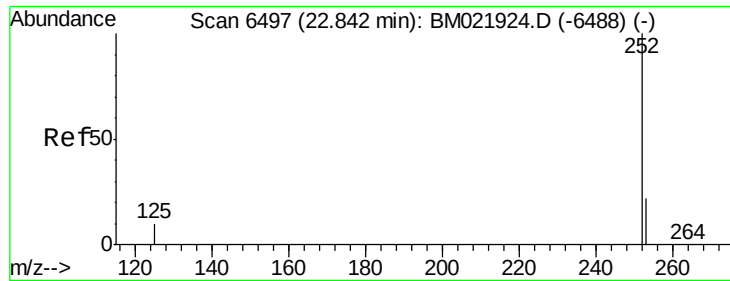
Lab File: BM021925.D

Acq: 08 Aug 2019 10:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 13659 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 27.1  | 0.0   | 67.4  |
| 125      | 13.1  | 0.0   | 31.0  |







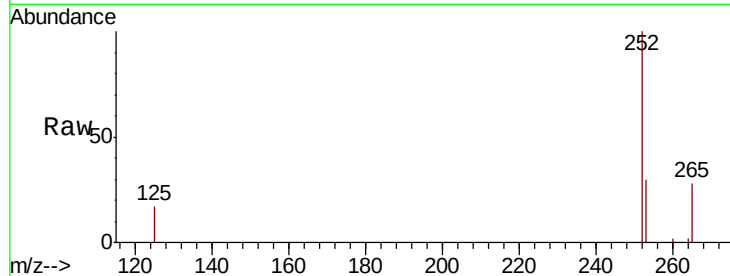
#22  
Benzo(k)fluoranthene  
Concen: 0.394 ng/ul m  
RT: 22.82 min Scan# 6490  
Delta R.T. -0.01 min  
Lab File: BM021925.D  
Acq: 08 Aug 2019 10:05

Instrument :  
BNA\_M  
ClientSampled :  
BENX9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.3  | 27.0  | 40.4  |
| 125     | 16.7  | 12.2  | 18.2  |

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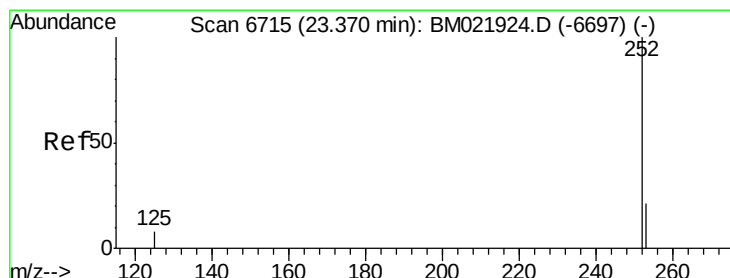
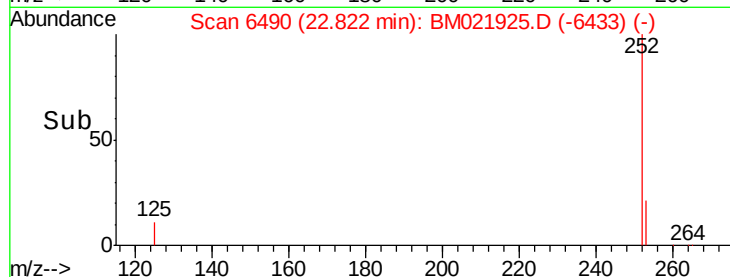
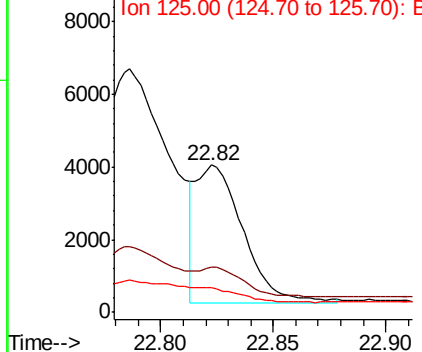


Abundance

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



#23  
Benzo(a)pyrene  
Concen: 0.747 ng/ul m  
RT: 23.35 min Scan# 6707  
Delta R.T. -0.01 min  
Lab File: BM021925.D  
Acq: 08 Aug 2019 10:05

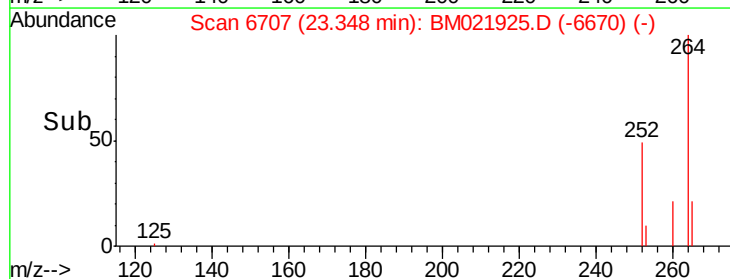
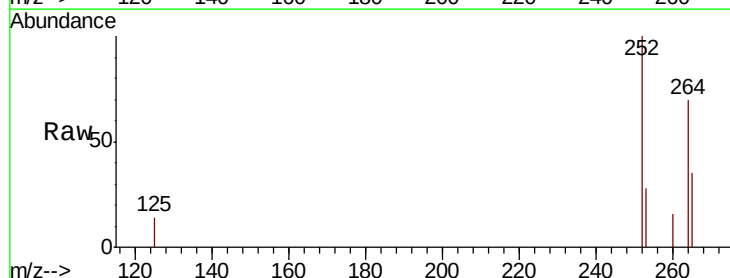
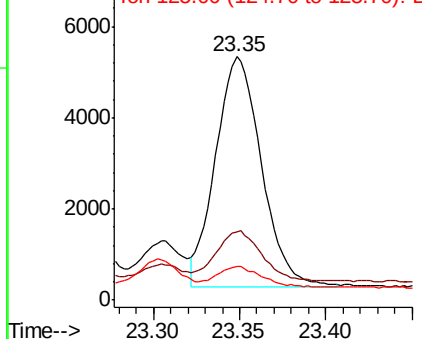
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.0  | 31.7  | 47.5# |
| 125     | 13.8  | 14.6  | 21.8# |

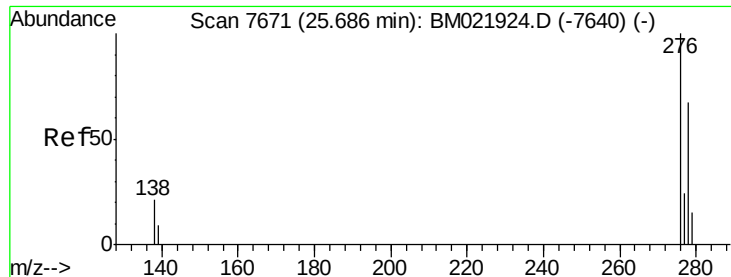
Abundance

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





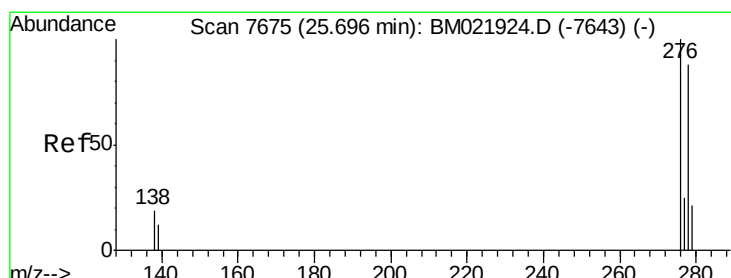
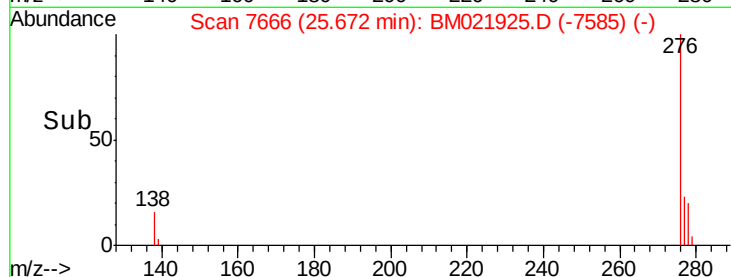
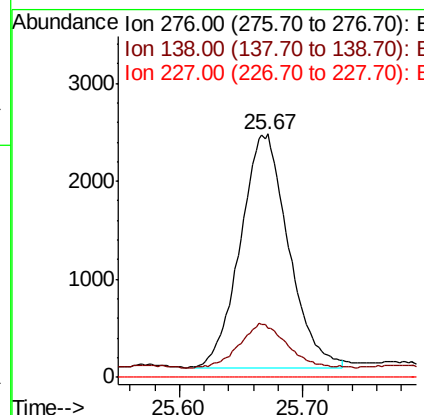
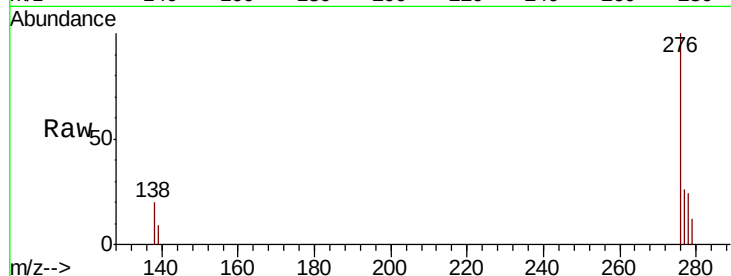
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.427 ng/ul m  
RT: 25.67 min Scan# 7666  
Delta R.T. -0.00 min  
Lab File: BM021925.D  
Acq: 08 Aug 2019 10:05

Instrument :  
BNA\_M  
ClientSampleId :  
BENX9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 1.6   | 15.1  | 22.7# |
| 227     | 0.0   | 0.0   | 0.0   |

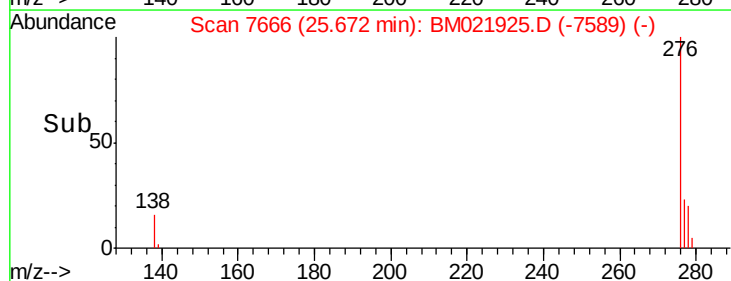
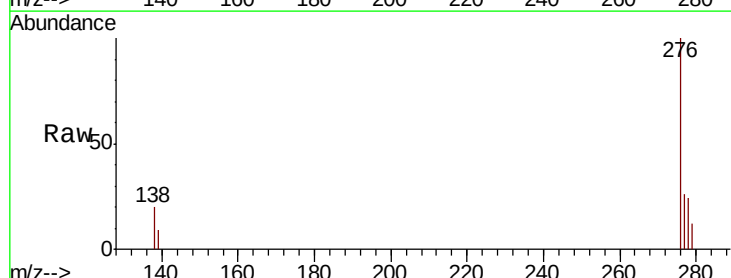
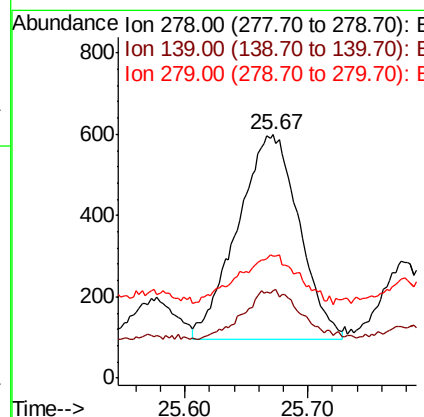
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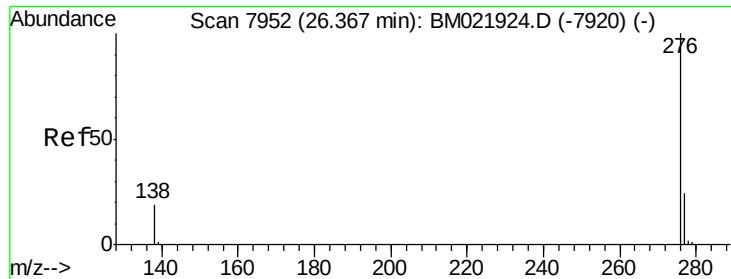
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.144 ng/ul m  
RT: 25.67 min Scan# 7666  
Delta R.T. -0.01 min  
Lab File: BM021925.D  
Acq: 08 Aug 2019 10:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 36.1  | 14.2  | 21.2# |
| 279     | 50.1  | 28.3  | 42.5# |





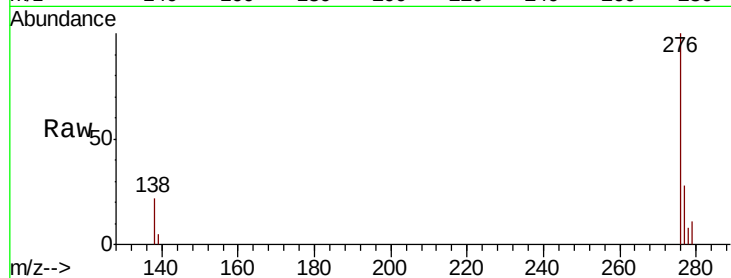
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.384 ng/ul m  
 RT: 26.35 min Scan# 7946  
 Delta R.T. -0.00 min  
 Lab File: BM021925.D  
 Acq: 08 Aug 2019 10:05

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENX9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.1  | 15.5  | 23.3  |
| 277     | 27.5  | 21.4  | 32.2  |

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

