

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022520\  
 Data File : BM025096.D  
 Acq On : 27 Feb 2020 01:53  
 Operator : CG/JU  
 Sample : L1506-16  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBCZ4

Manual Integrations  
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mohammad  
 2/27/2020 5:01:33 PM

Quant Time: Feb 27 06:17:32 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM022420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 27 05:28:30 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.69  | 152  | 3066     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.46 | 136  | 12368    | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.32 | 164  | 8256     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.06 | 188  | 18724m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.24 | 240  | 20010    | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.44 | 264  | 22868    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.06 | 152  | 8501     | 0.37   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 23548    | 0.37   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.51 | 128  | 1386     | 0.037  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.03 | 152  | 1342     | 0.028  | ng/ul# | 85       |
| 8) Acenaphthene             | 14.38 | 153  | 10307    | 0.322  | ng/ul  | 99       |
| 9) Fluorene                 | 15.37 | 166  | 13638    | 0.340  | ng/ul  | 98       |
| 11) Pentachlorophenol       | 16.71 | 266  | 373      | 0.065  | ng/ul  | 100      |
| 12) Phenanthrene            | 17.10 | 178  | 18326    | 0.278  | ng/ul  | 96       |
| 13) Anthracene              | 17.19 | 178  | 3862     | 0.061  | ng/ul  | 97       |
| 15) Fluoranthene            | 19.12 | 202  | 53551    | 0.560  | ng/ul  | 96       |
| 17) Pyrene                  | 19.48 | 202  | 45900m   | 0.509  | ng/ul  |          |
| 18) Benzo(a)anthracene      | 21.23 | 228  | 8214     | 0.095  | ng/ul  | 99       |
| 19) Chrysene                | 21.28 | 228  | 8897m    | 0.103  | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 22.79 | 252  | 7143m    | 0.080  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.82 | 252  | 2667m    | 0.030  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.35 | 252  | 2086     | 0.025  | ng/ul# | 64       |

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

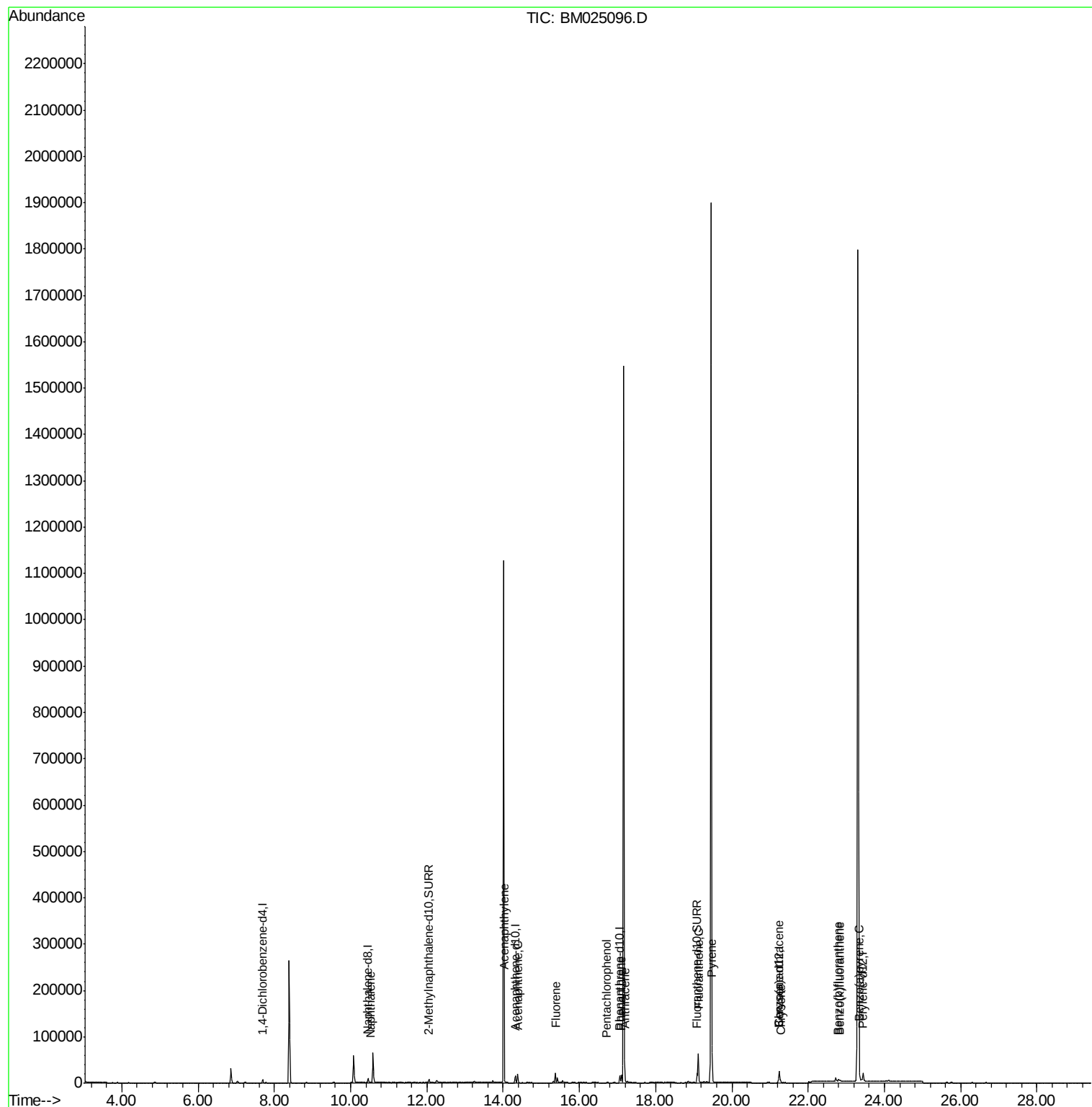
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022520\  
Data File : BM025096.D  
Acq On : 27 Feb 2020 01:53  
Operator : CG/JU  
Sample : L1506-16  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

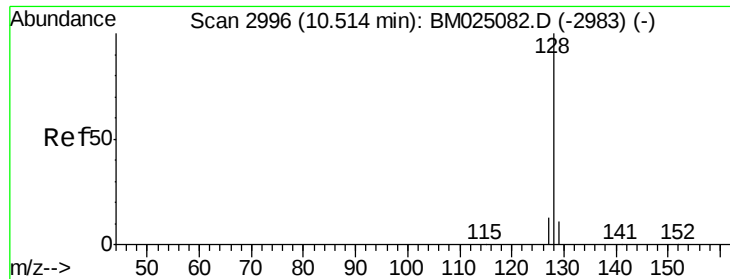
Instrument :  
BNA\_M  
ClientSampleId :  
DBCZ4

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Quant Time: Feb 27 06:17:32 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM022420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 27 05:28:30 2020  
Response via : Initial Calibration





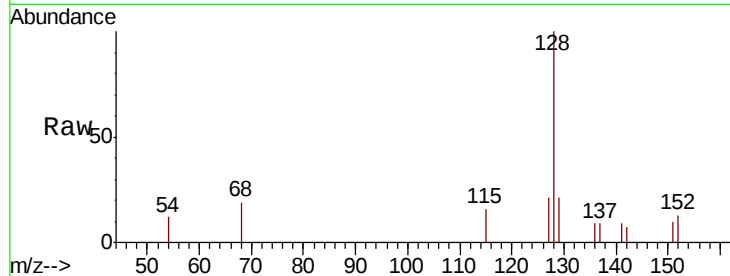
#3  
Naphthalene  
Concen: 0.037 ng/ul  
RT: 10.51 min Scan# 2995  
Delta R.T. -0.01 min  
Lab File: BM025096.D  
Acq: 27 Feb 2020 01:53

Instrument :  
BNA\_M  
ClientSampleId :  
DBCZ4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 20.7  | 17.0  | 25.6  |
| 127     | 21.1  | 15.7  | 23.5  |

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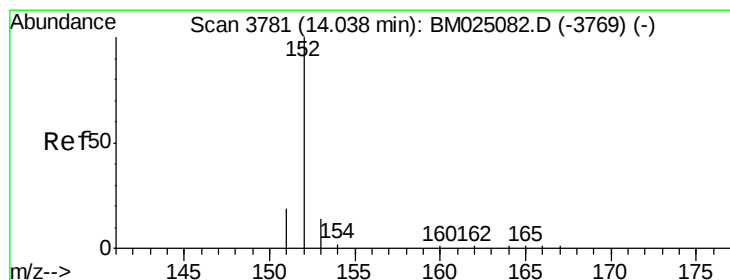
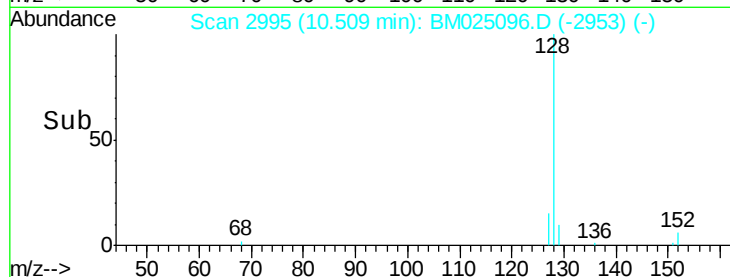
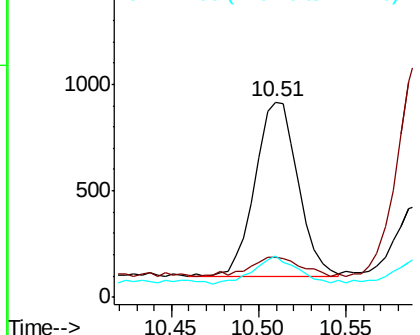


Abundance

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



#7  
Acenaphthylene  
Concen: 0.028 ng/ul  
RT: 14.03 min Scan# 3780  
Delta R.T. -0.01 min  
Lab File: BM025096.D  
Acq: 27 Feb 2020 01:53

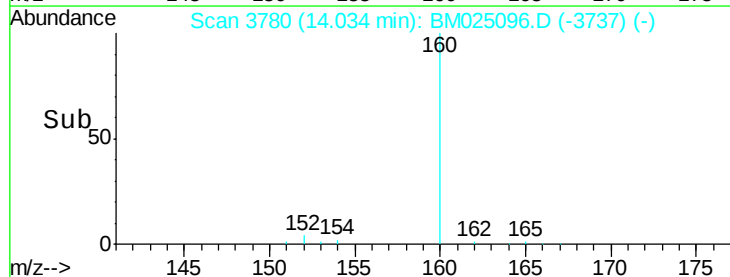
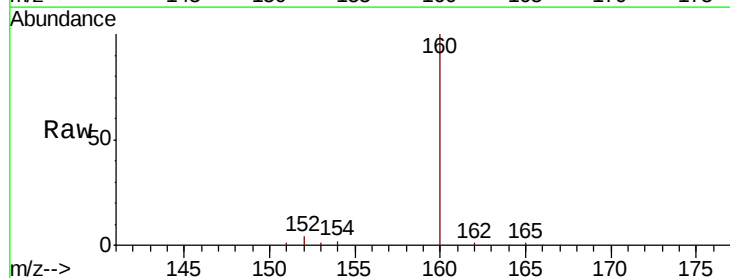
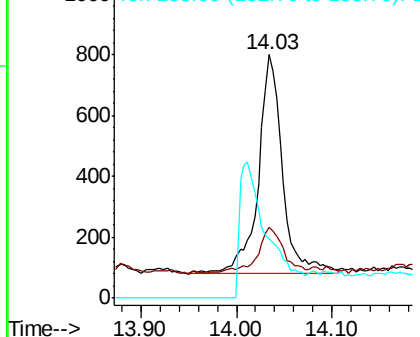
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 29.0  | 17.8  | 26.8# |
| 153     | 24.1  | 13.3  | 19.9# |

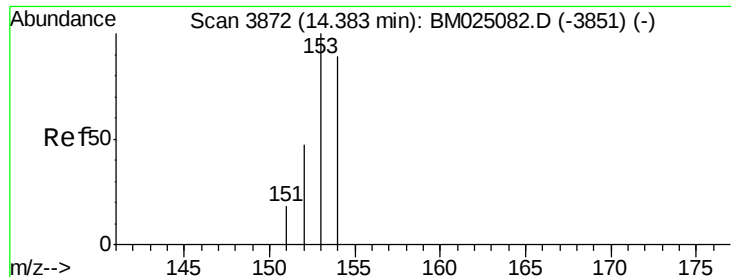
Abundance

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: 0.322 ng/ul

RT: 14.38 min Scan# 3871

Delta R.T. -0.01 min

Lab File: BM025096.D

Acq: 27 Feb 2020 01:53

Instrument :

BNA\_M

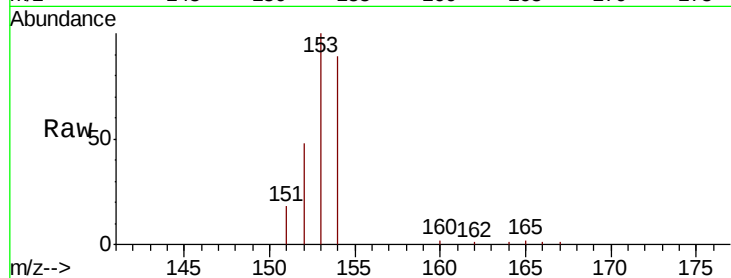
ClientSampleId :

DBCZ4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 153   | Resp: | 10307 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 48.3  | 40.0  | 60.0  |
| 154      | 89.1  | 71.0  | 106.6 |

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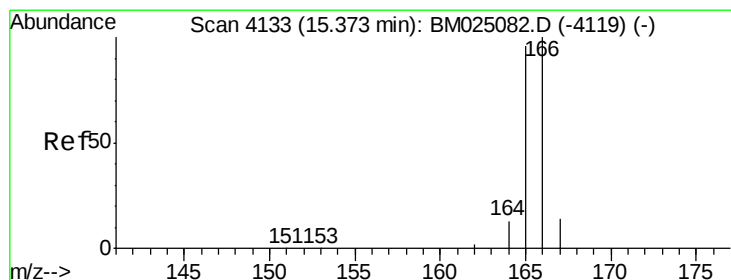
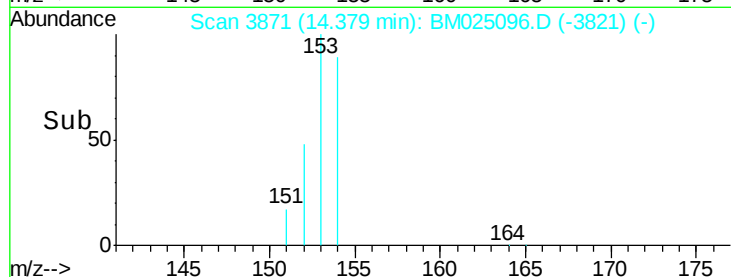
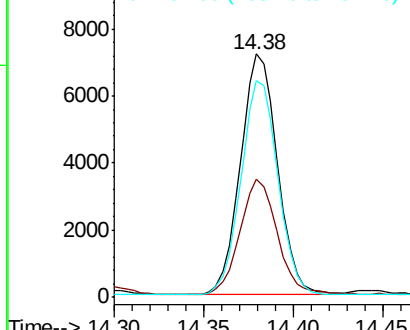


Abundance

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: 0.340 ng/ul

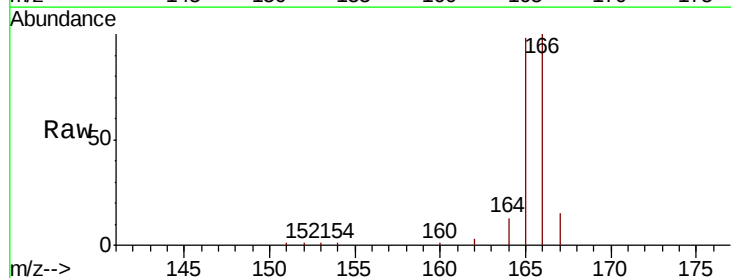
RT: 15.37 min Scan# 4132

Delta R.T. -0.01 min

Lab File: BM025096.D

Acq: 27 Feb 2020 01:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 13638 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.3  | 80.0  | 120.0 |
| 167      | 15.3  | 13.7  | 20.5  |

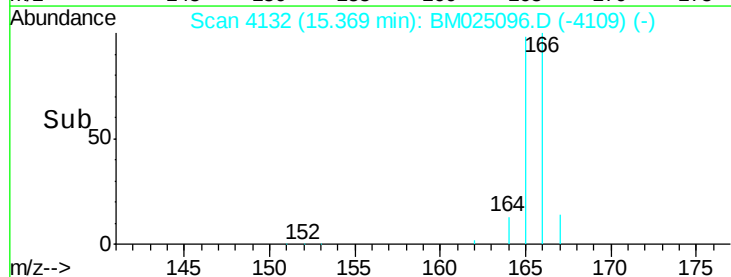
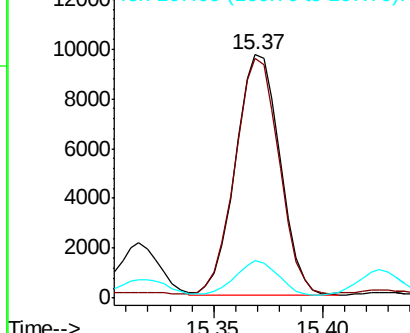


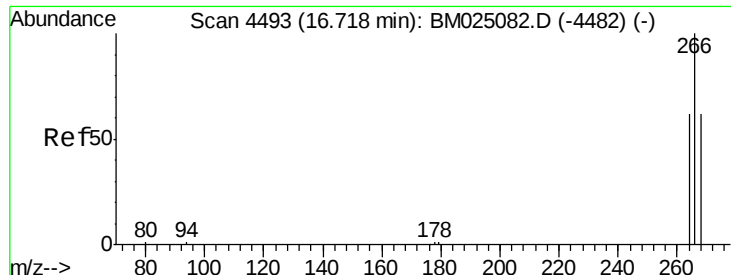
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





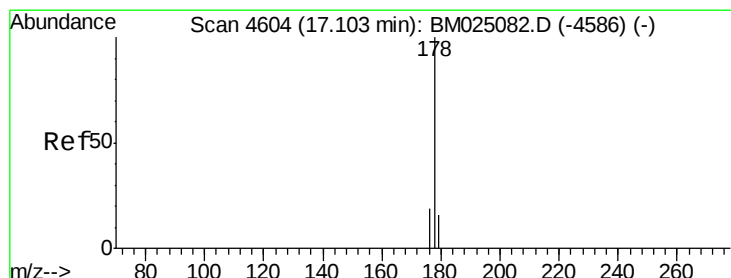
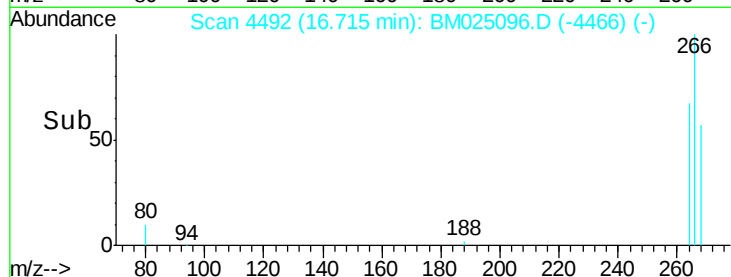
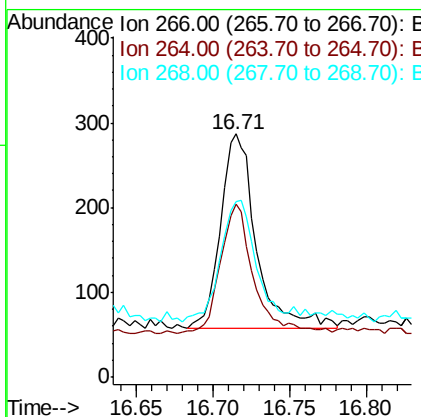
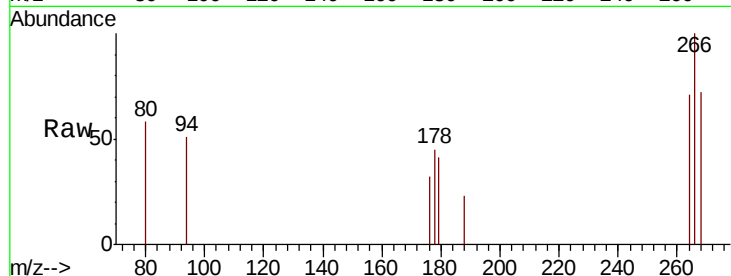
#11  
 Pentachlorophenol  
 Concen: 0.065 ng/ul  
 RT: 16.71 min Scan# 4492  
 Delta R.T. -0.01 min  
 Lab File: BM025096.D  
 Acq: 27 Feb 2020 01:53

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBCZ4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 266   | Resp: | 373   |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 62.2  | 49.8  | 74.6  |
| 268      | 61.4  | 49.0  | 73.4  |

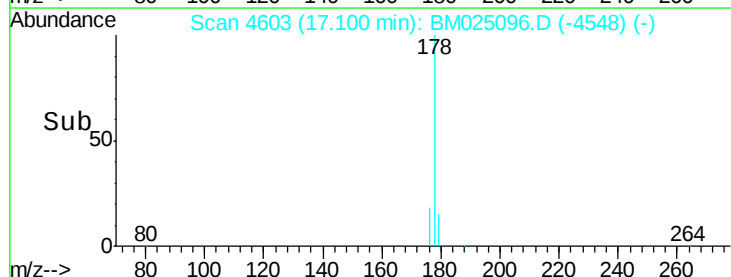
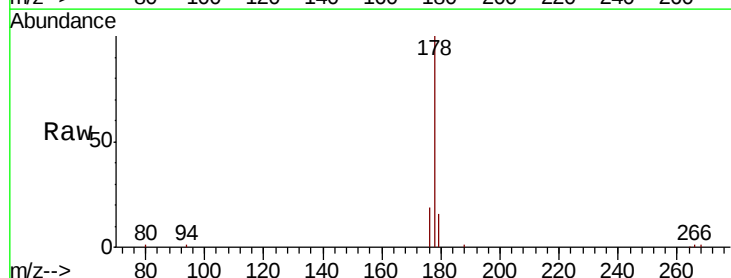
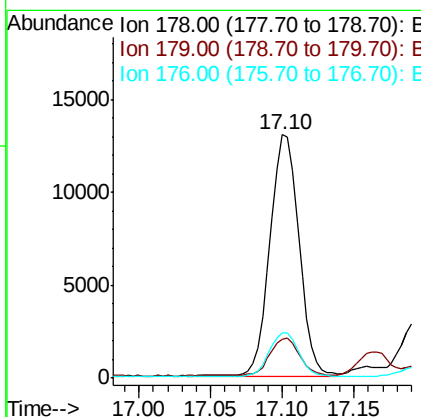
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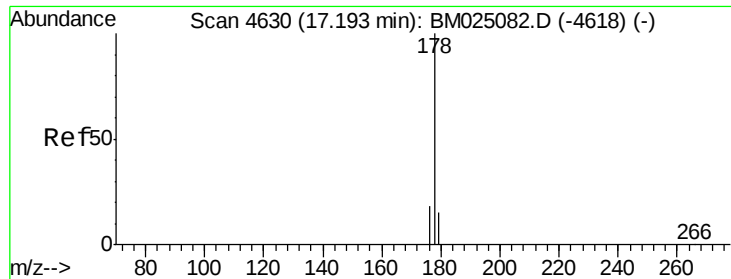
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#12  
 Phenanthrene  
 Concen: 0.278 ng/ul  
 RT: 17.10 min Scan# 4603  
 Delta R.T. -0.01 min  
 Lab File: BM025096.D  
 Acq: 27 Feb 2020 01:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 18326 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 16.1  | 14.0  | 21.0  |
| 176      | 18.6  | 16.6  | 24.8  |





#13

Anthracene

Concen: 0.061 ng/ul

RT: 17.19 min Scan# 4630

Delta R.T. -0.01 min

Lab File: BM025096.D

Acq: 27 Feb 2020 01:53

Instrument :

BNA\_M

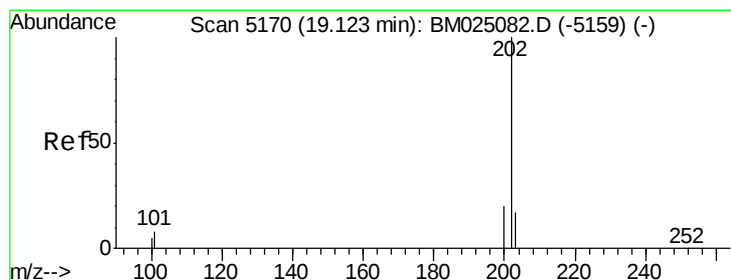
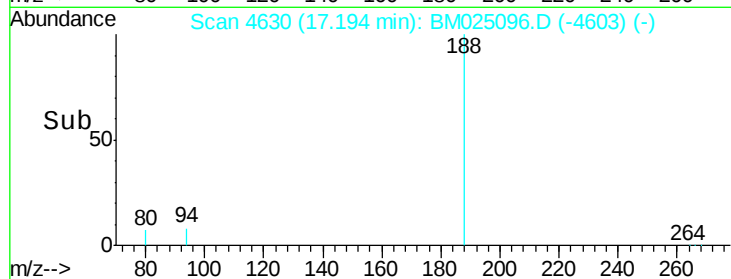
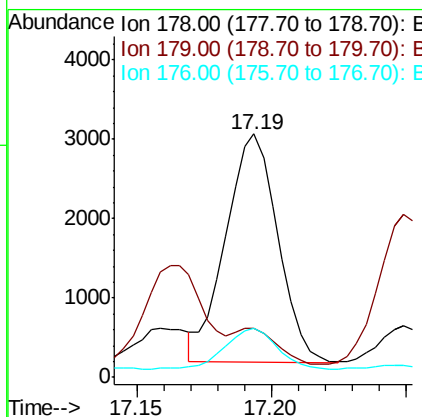
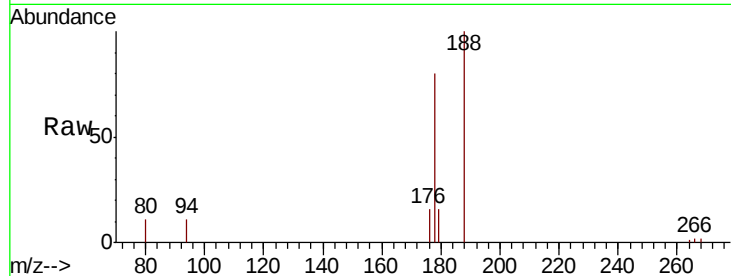
ClientSampleId :

DBCZ4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 3862  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 19.9  | 14.1  | 21.1  |
| 176      | 19.9  | 16.2  | 24.4  |

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#15

Fluoranthene

Concen: 0.560 ng/ul

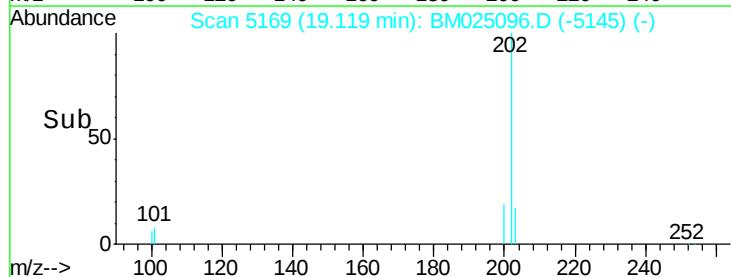
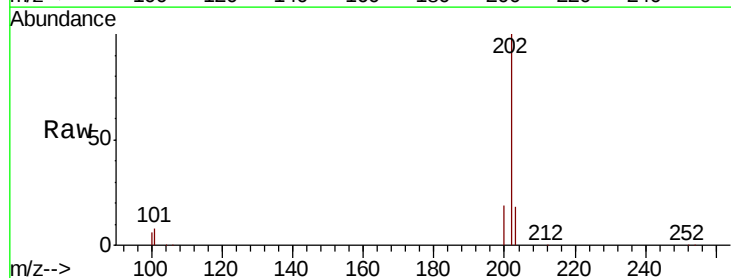
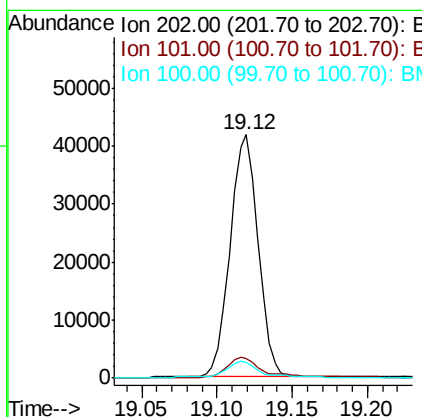
RT: 19.12 min Scan# 5169

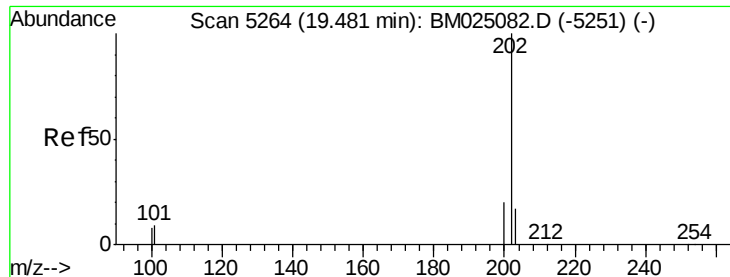
Delta R.T. -0.01 min

Lab File: BM025096.D

Acq: 27 Feb 2020 01:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 53551 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 8.2   | 0.0   | 29.4  |
| 100      | 6.2   | 0.0   | 28.0  |





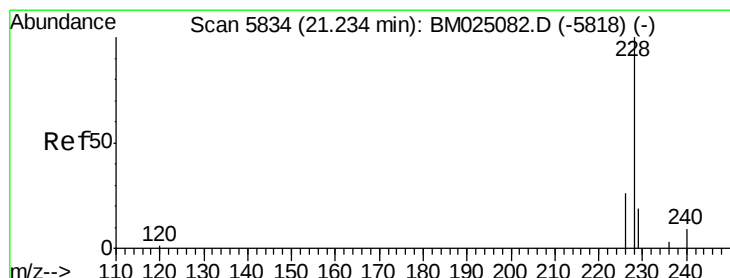
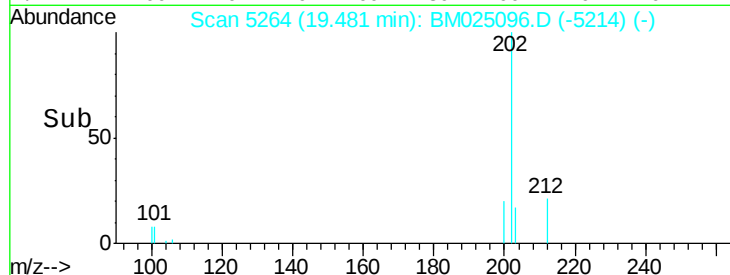
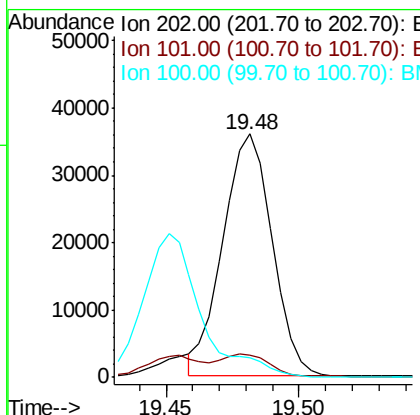
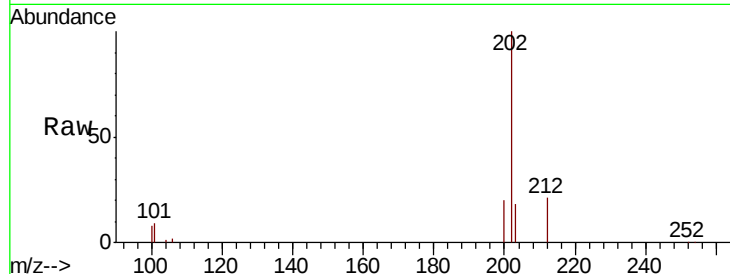
#17  
Pvrene  
Concen: 0.509 ng/ul m  
RT: 19.48 min Scan# 5264  
Delta R.T. -0.01 min  
Lab File: BM025096.D  
Acq: 27 Feb 2020 01:53

Instrument :  
BNA\_M  
ClientSampleId :  
DBCZ4

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 9.3   | 8.7        | 13.1       |
| 100     | 8.3   | 7.3        | 10.9       |

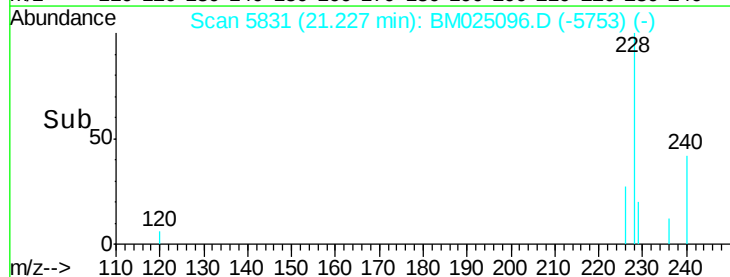
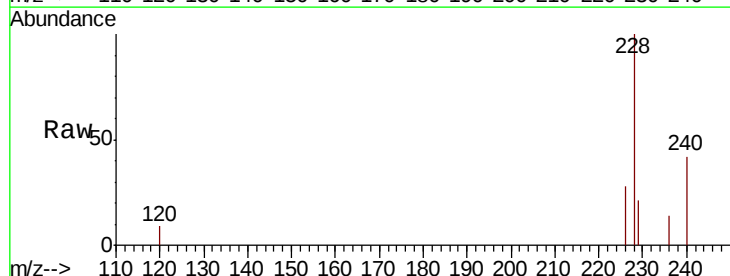
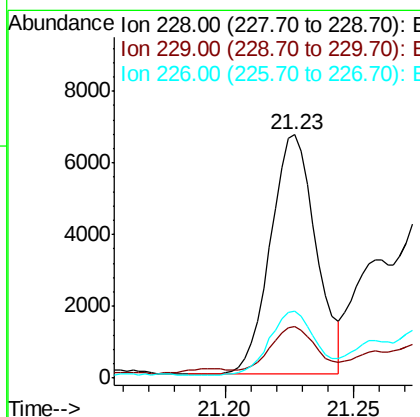
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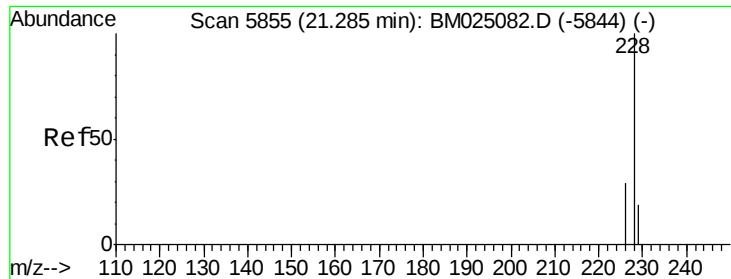
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#18  
Benzo(a)anthracene  
Concen: 0.095 ng/ul  
RT: 21.23 min Scan# 5831  
Delta R.T. -0.01 min  
Lab File: BM025096.D  
Acq: 27 Feb 2020 01:53

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 21.4  | 16.6       | 25.0       |
| 226     | 27.7  | 21.9       | 32.9       |





#19

Chrysene

Concen: 0.103 ng/ul m

RT: 21.28 min Scan# 5852

Delta R.T. -0.01 min

Lab File: BM025096.D

Acq: 27 Feb 2020 01:53

Instrument :

BNA\_M

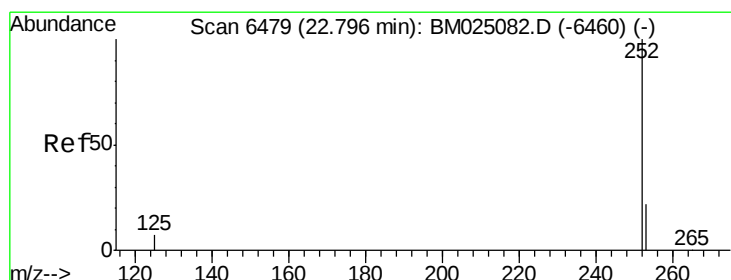
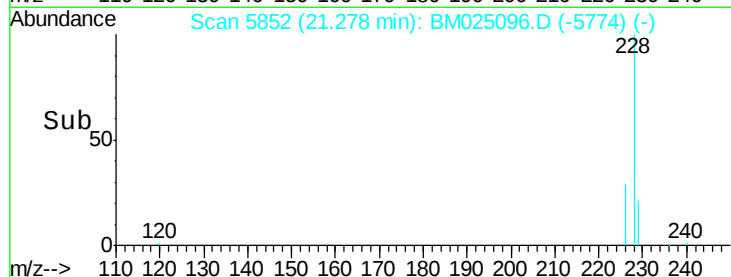
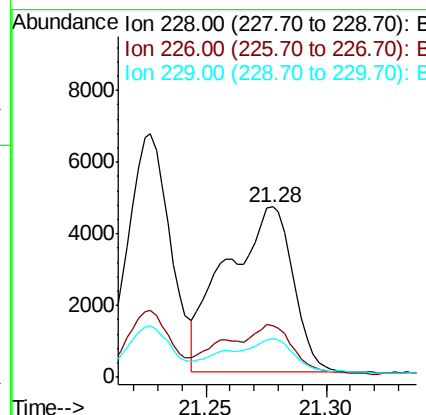
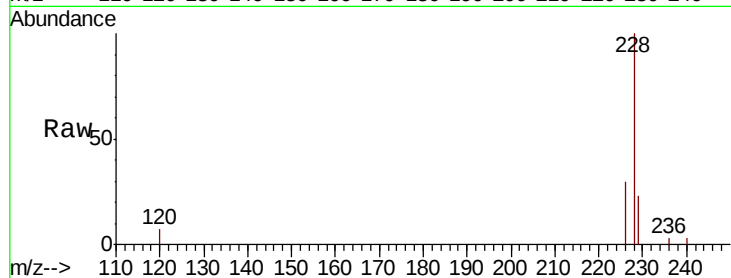
ClientSampled :

DBCZ4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 8897  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.0  | 23.8  | 35.8  |
| 229      | 22.9  | 16.9  | 25.3  |

Manual Integrations  
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#21

Benzo(b)fluoranthene

Concen: 0.080 ng/ul m

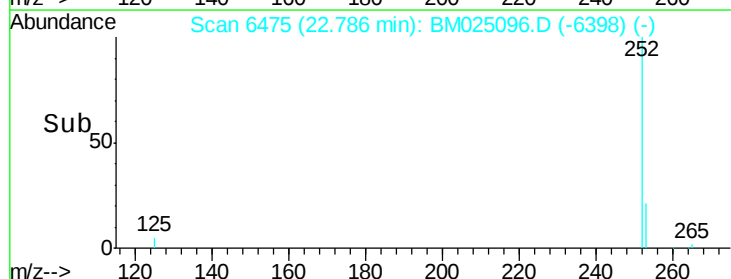
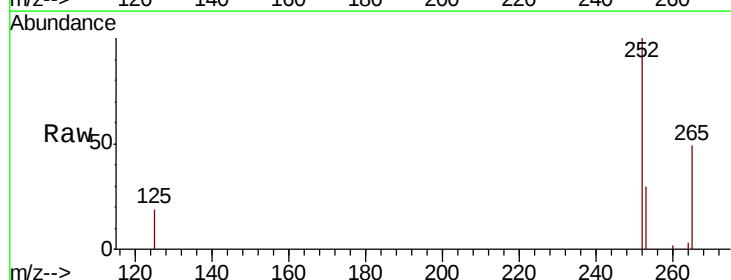
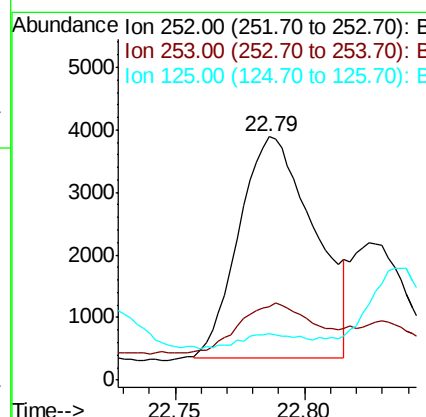
RT: 22.79 min Scan# 6475

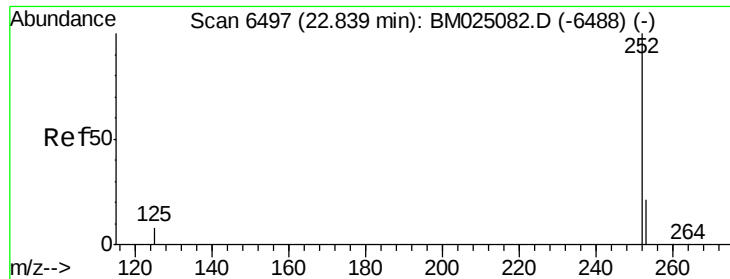
Delta R.T. -0.01 min

Lab File: BM025096.D

Acq: 27 Feb 2020 01:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 7143  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 30.1  | 0.0   | 49.8  |
| 125      | 19.2  | 0.0   | 28.6  |





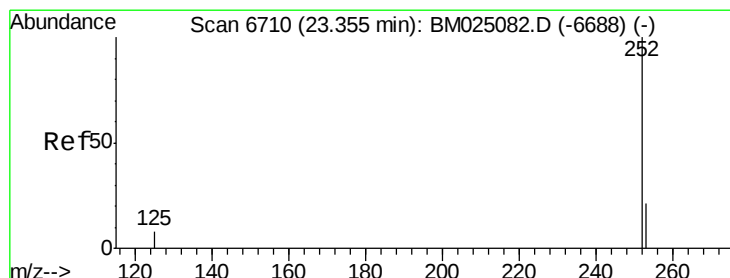
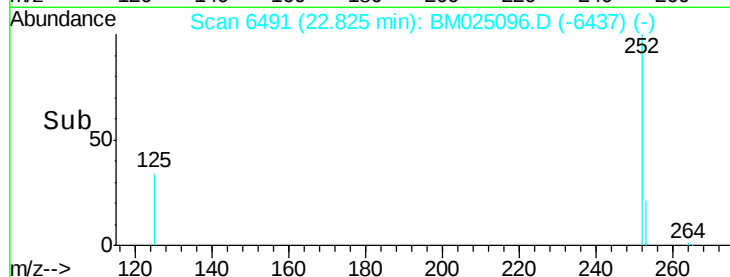
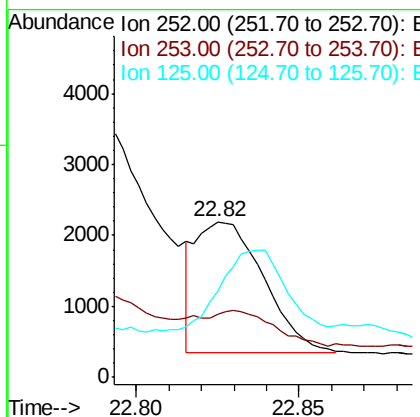
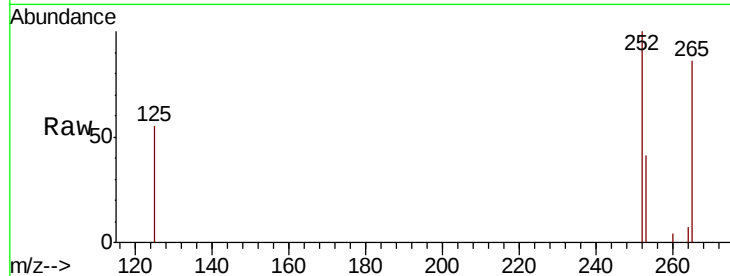
#22  
Benzo(k)fluoranthene  
Concen: 0.030 ng/u1 m  
RT: 22.82 min Scan# 6491  
Delta R.T. -0.02 min  
Lab File: BM025096.D  
Acq: 27 Feb 2020 01:53

Instrument :  
BNA\_M  
ClientSampleId :  
DBCZ4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 40.6  | 19.4  | 29.0# |
| 125     | 55.4  | 10.7  | 16.1# |

Manual Integrations  
APPROVED

mohammad  
2/27/2020 5:01:33 PM



#23  
Benzo(a)pyrene  
Concen: 0.025 ng/u1  
RT: 23.35 min Scan# 6708  
Delta R.T. -0.01 min  
Lab File: BM025096.D  
Acq: 27 Feb 2020 01:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 41.7  | 20.3  | 30.5# |
| 125     | 33.9  | 13.0  | 19.4# |

