

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031820\  
 Data File : BM025642.D  
 Acq On : 18 Mar 2020 23:34  
 Operator : CG/JU  
 Sample : L1786-08DL 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC4DL

Manual Integrations  
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 3/19/2020 12:43:49 PM

Quant Time: Mar 19 00:48:02 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 18 05:07:34 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.59  | 152  | 2717     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.35 | 136  | 11209    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.22 | 164  | 6786     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.96 | 188  | 15563    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.15 | 240  | 16825    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.30 | 264  | 19889    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152  | 699      | 0.03   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 1736     | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 10.39 | 128  | 5938     | 0.179  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.02 | 142  | 1885     | 0.079  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.94 | 152  | 2053     | 0.074  | ng/ul# | 83       |
| 8) Acenaphthene             | 14.28 | 153  | 15999    | 0.658  | ng/ul  | 99       |
| 9) Fluorene                 | 15.27 | 166  | 12624    | 0.426  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.00 | 178  | 353977   | 7.177  | ng/ul  | 99       |
| 13) Anthracene              | 17.09 | 178  | 80937    | 1.886  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.03 | 202  | 924533   | 17.292 | ng/ul  | 99       |
| 17) Pyrene                  | 19.39 | 202  | 801670   | 10.616 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.14 | 228  | 577539   | 9.601  | ng/ul  | 99       |
| 19) Chrysene                | 21.19 | 228  | 537622   | 7.959  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.67 | 252  | 736596m  | 9.353  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.71 | 252  | 264622m  | 3.207  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.21 | 252  | 532360m  | 8.140  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.43 | 276  | 329026   | 3.708  | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.44 | 278  | 94969    | 1.272  | ng/ul  | 99       |
| 26) Benzo(a,h,i)perylene    | 26.08 | 276  | 243717   | 3.166  | ng/ul  | 98       |

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

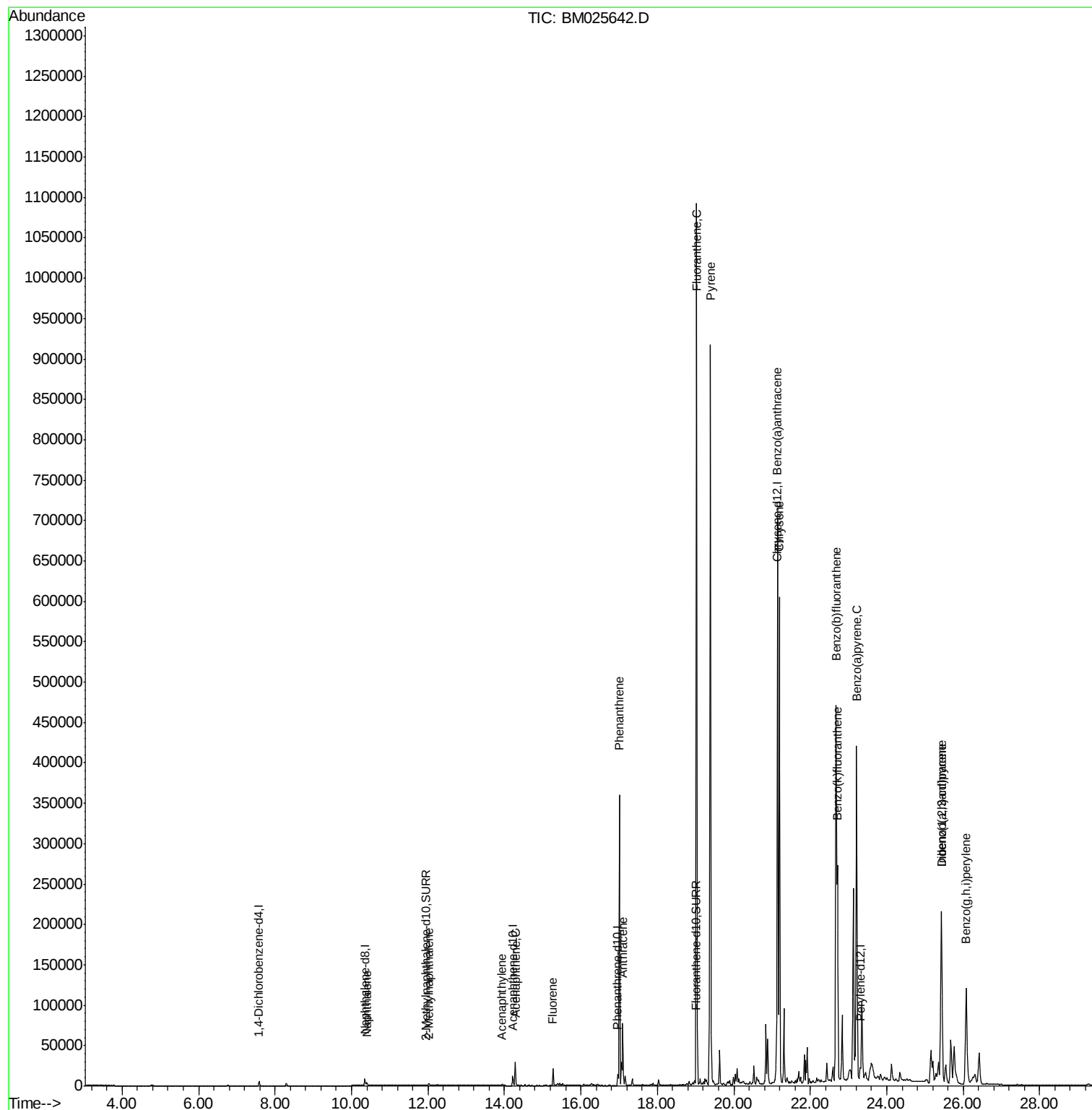
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031820\  
Data File : BM025642.D  
Acq On : 18 Mar 2020 23:34  
Operator : CG/JU  
Sample : L1786-08DL 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

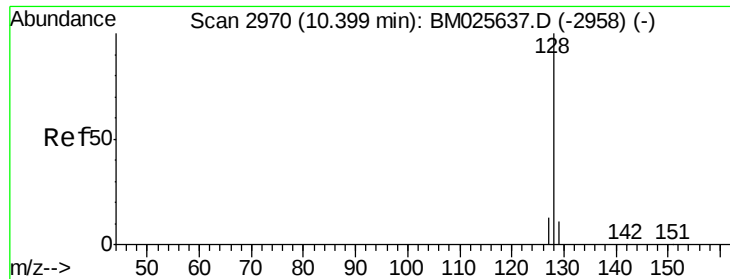
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC4DL

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Quant Time: Mar 19 00:48:02 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 18 05:07:34 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.179 ng/ul

RT: 10.39 min Scan# 2969

Delta R.T. -0.01 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

Instrument :

BNA\_M

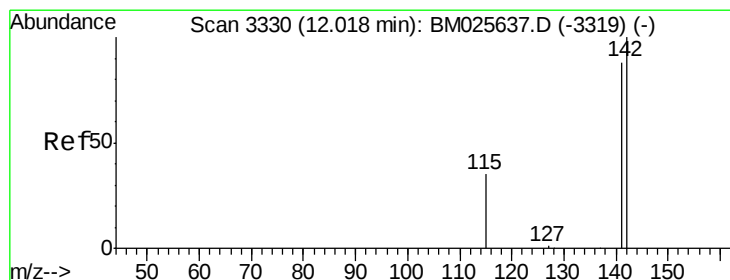
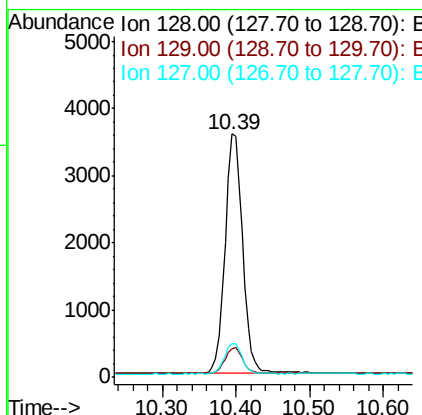
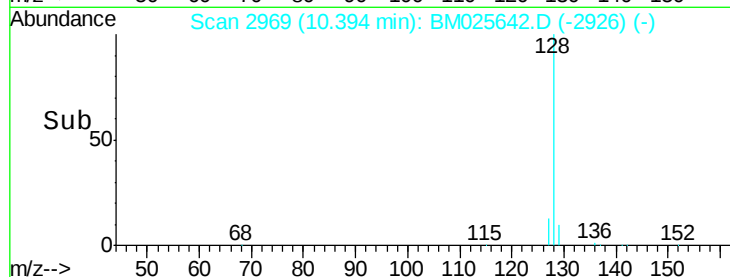
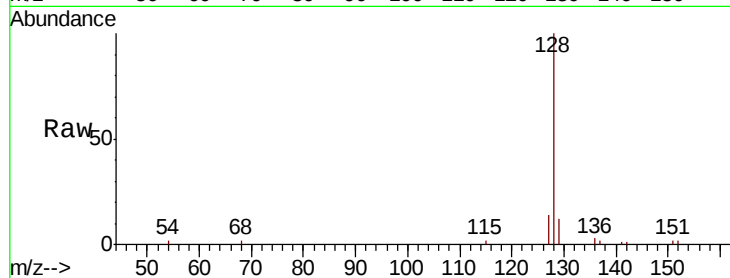
ClientSampleId :

C0AC4DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 5938  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.9  | 9.4   | 14.0  |
| 127      | 14.0  | 10.9  | 16.3  |

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#5

2-Methylnaphthalene

Concen: 0.079 ng/ul

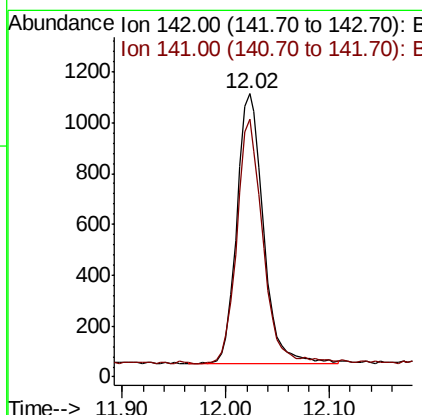
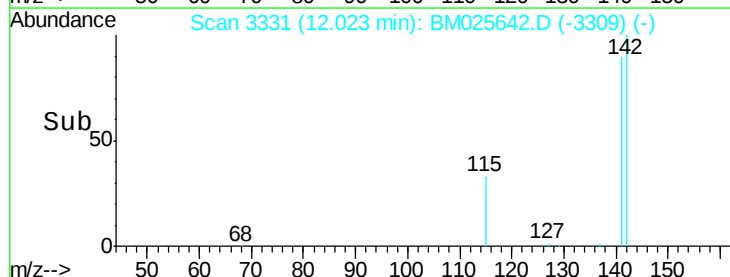
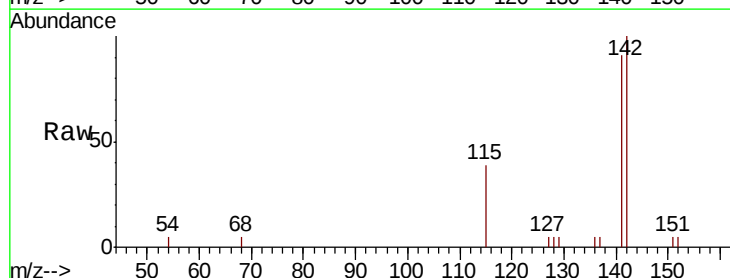
RT: 12.02 min Scan# 3331

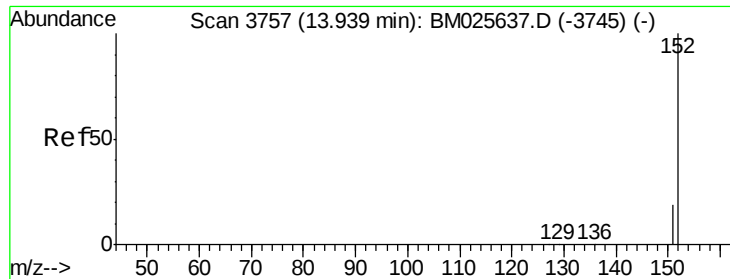
Delta R.T. -0.00 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 1885  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 89.5  | 69.8  | 104.6 |





#7

Acenaphthylene

Concen: 0.074 ng/ul

RT: 13.94 min Scan# 3757

Delta R.T. -0.00 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

Instrument :

BNA\_M

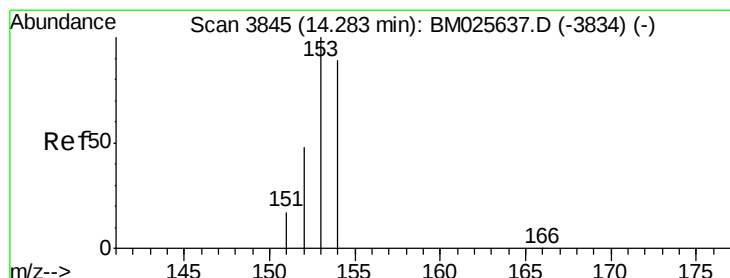
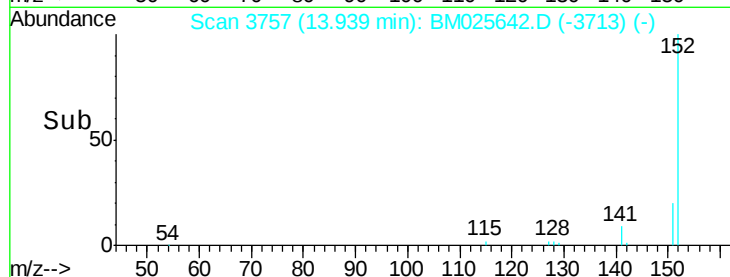
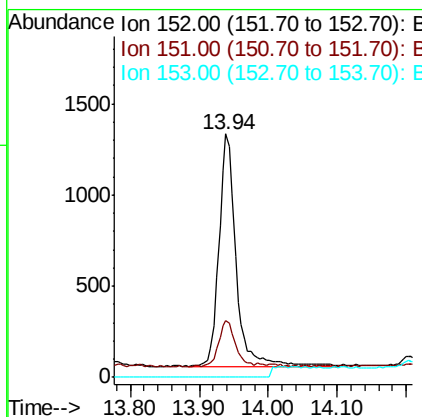
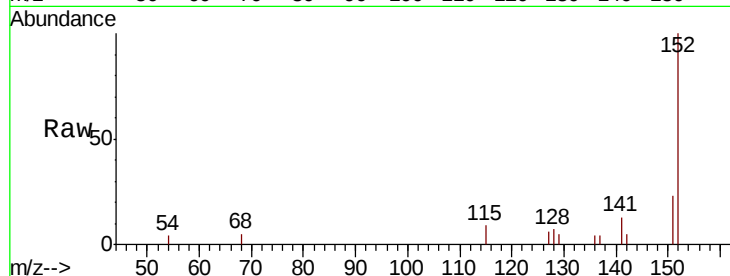
ClientSampleId :

C0AC4DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2053  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 23.4  | 16.2  | 24.2  |
| 153       | 0.0   | 10.6  | 16.0# |

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#8

Acenaphthene

Concen: 0.658 ng/ul

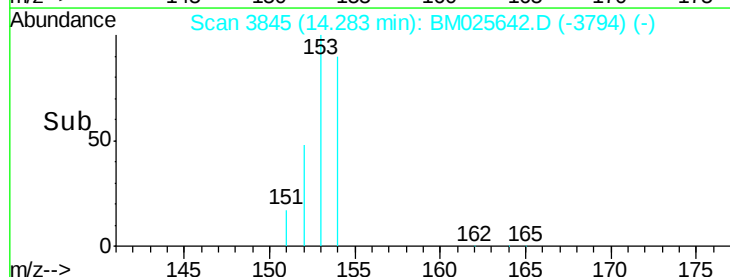
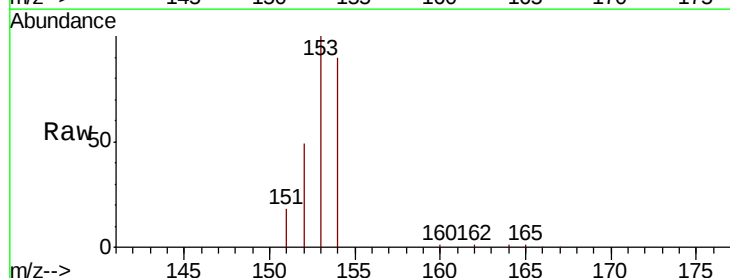
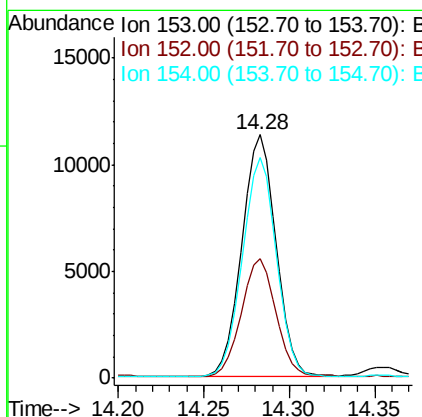
RT: 14.28 min Scan# 3845

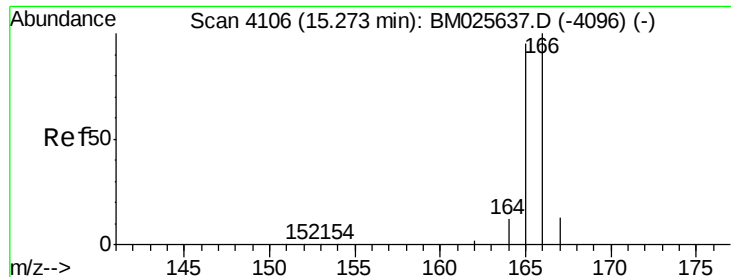
Delta R.T. -0.01 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 15999 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.9  | 39.5  | 59.3  |
| 154       | 90.5  | 71.7  | 107.5 |





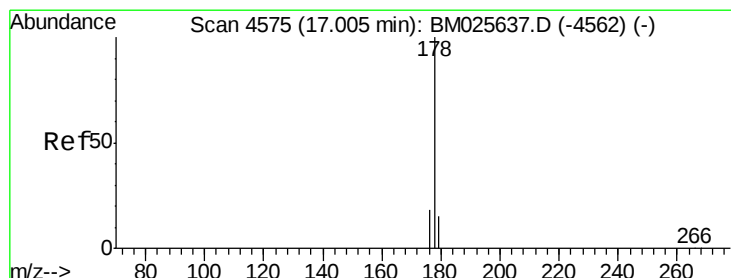
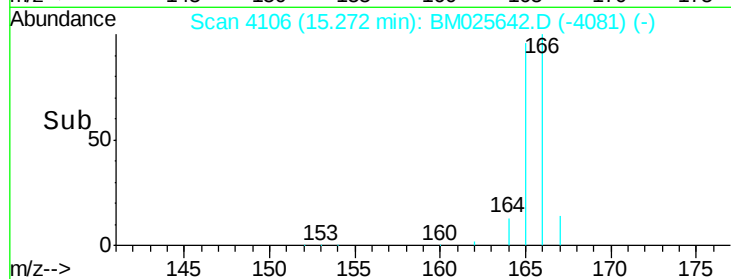
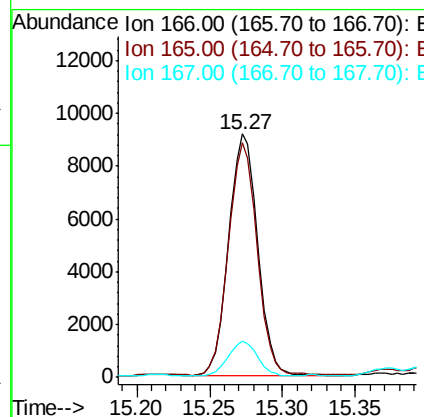
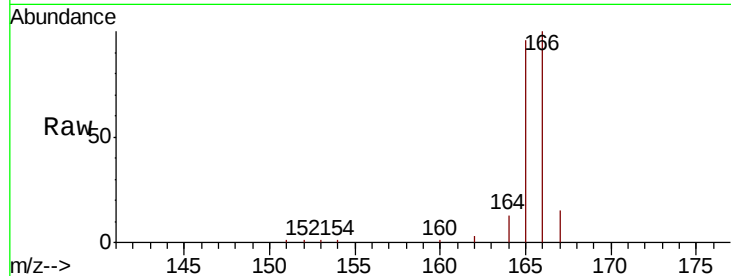
#9  
**Fluorene**  
 Concen: 0.426 ng/ul  
 RT: 15.27 min Scan# 4106  
 Delta R.T. -0.01 min  
 Lab File: BM025642.D  
 Acq: 18 Mar 2020 23:34

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.3  | 76.8  | 115.2 |
| 167     | 15.0  | 11.2  | 16.8  |

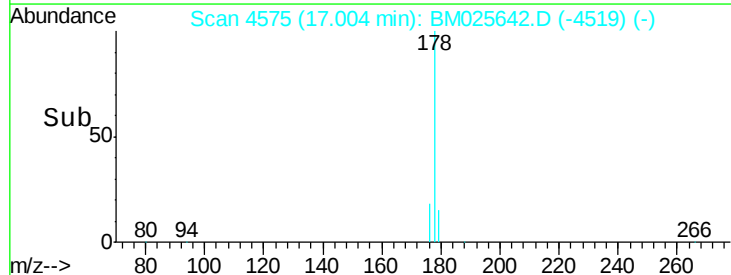
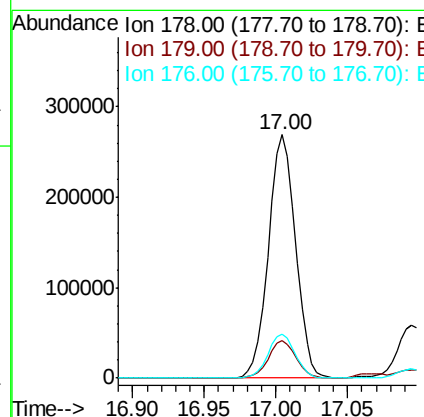
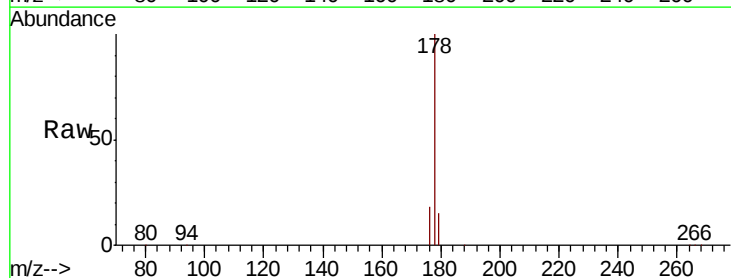
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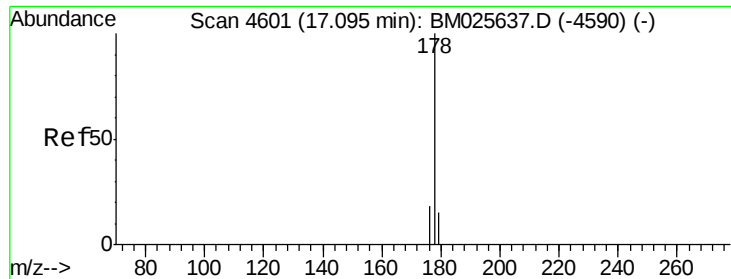
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#12  
**Phenanthrene**  
 Concen: 7.177 ng/ul  
 RT: 17.00 min Scan# 4575  
 Delta R.T. -0.01 min  
 Lab File: BM025642.D  
 Acq: 18 Mar 2020 23:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 12.4  | 18.6  |
| 176     | 18.2  | 14.8  | 22.2  |





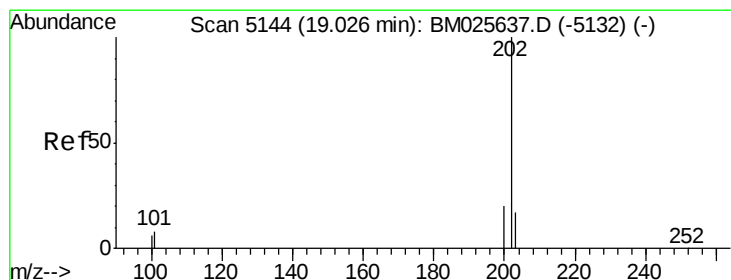
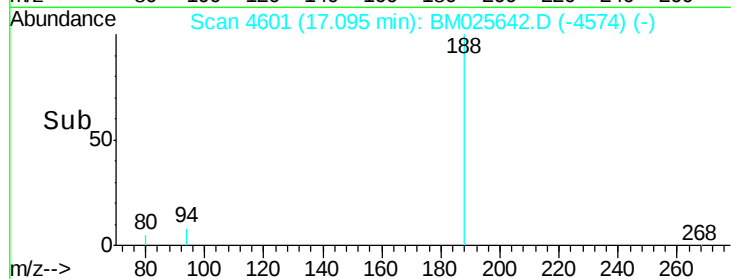
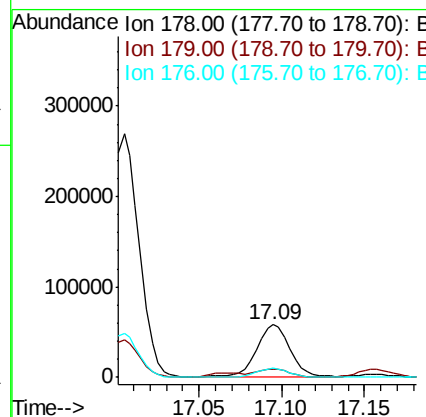
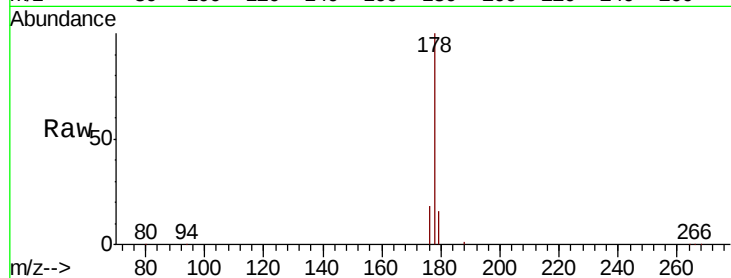
#13  
 Anthracene  
 Concen: 1.886 ng/ul  
 RT: 17.09 min Scan# 4601  
 Delta R.T. -0.01 min  
 Lab File: BM025642.D  
 Acq: 18 Mar 2020 23:34

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.2  | 12.6  | 18.8  |
| 176     | 17.6  | 14.5  | 21.7  |

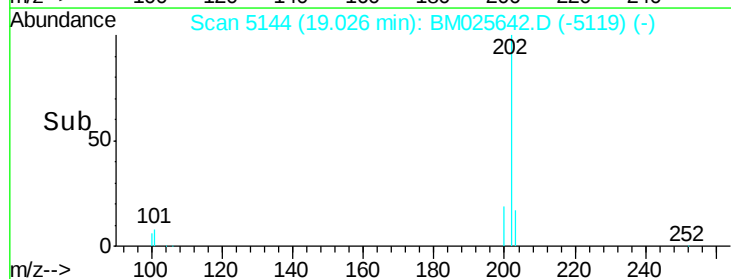
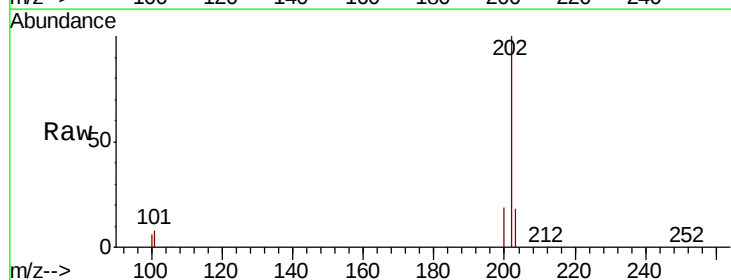
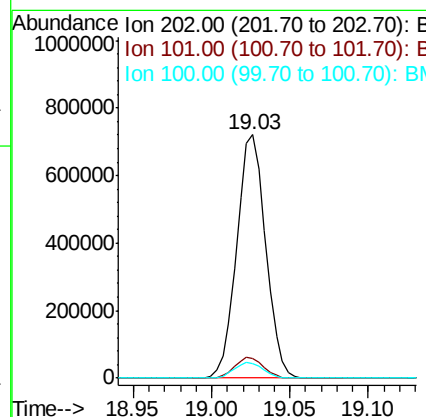
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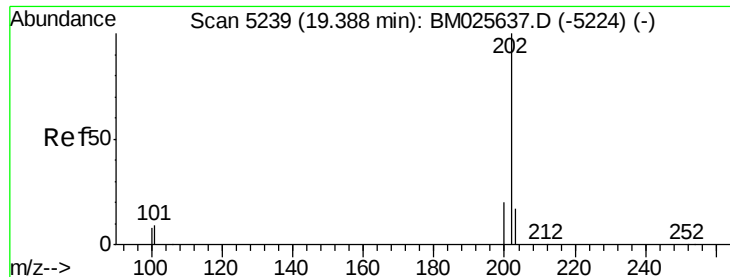
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#15  
 Fluoranthene  
 Concen: 17.292 ng/ul  
 RT: 19.03 min Scan# 5144  
 Delta R.T. -0.01 min  
 Lab File: BM025642.D  
 Acq: 18 Mar 2020 23:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.2   | 0.0   | 27.5  |
| 100     | 6.2   | 0.0   | 26.0  |





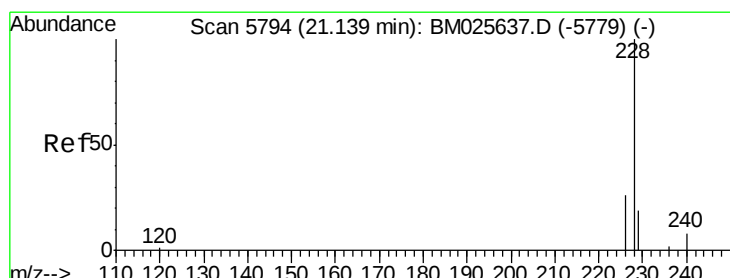
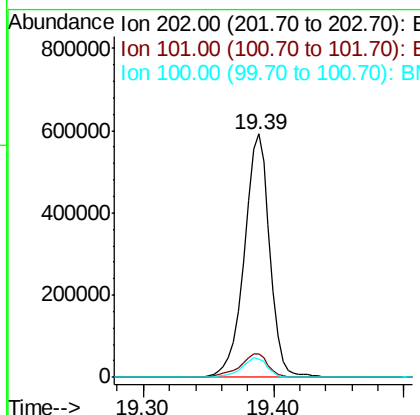
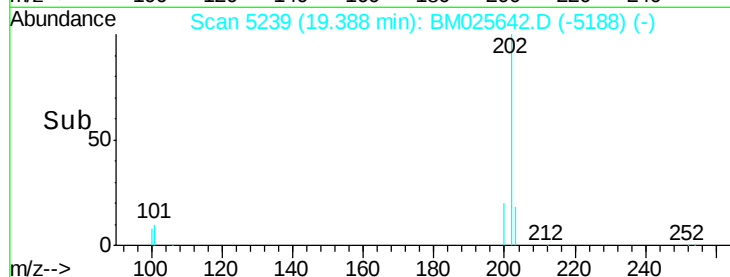
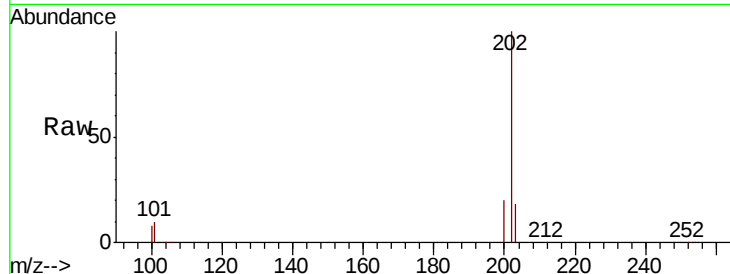
#17  
Pvrene  
Concen: 10.616 ng/ul  
RT: 19.39 min Scan# 5239  
Delta R.T. -0.01 min  
Lab File: BM025642.D  
Acq: 18 Mar 2020 23:34

Instrument :  
BNA\_M  
ClientSampleId :  
C0AC4DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 801670 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.5   | 7.1   | 10.7   |
| 100       | 7.7   | 6.0   | 9.0    |

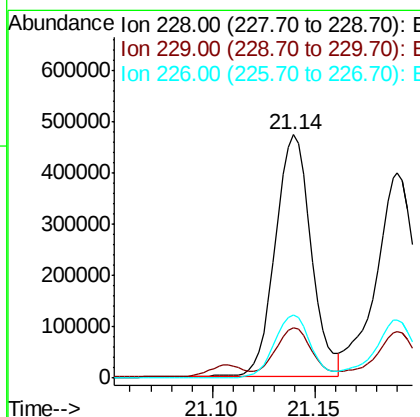
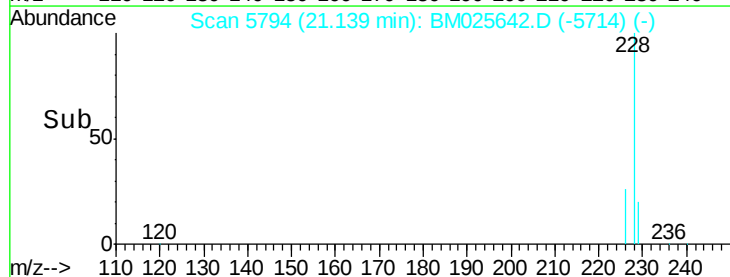
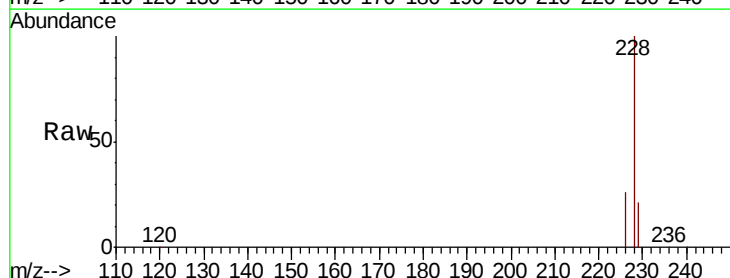
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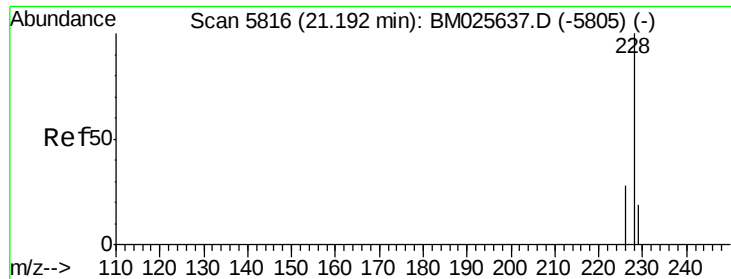
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#18  
Benzo(a)anthracene  
Concen: 9.601 ng/ul  
RT: 21.14 min Scan# 5794  
Delta R.T. -0.01 min  
Lab File: BM025642.D  
Acq: 18 Mar 2020 23:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 577539 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.6  | 15.6  | 23.4   |
| 226       | 26.2  | 21.1  | 31.7   |





#19

Chrysene

Concen: 7.959 ng/ul

RT: 21.19 min Scan# 5815

Delta R.T. -0.01 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

Instrument :

BNA\_M

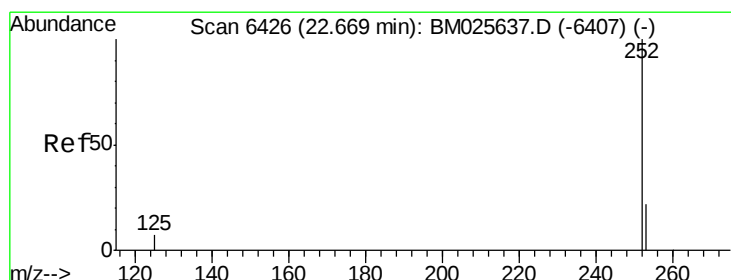
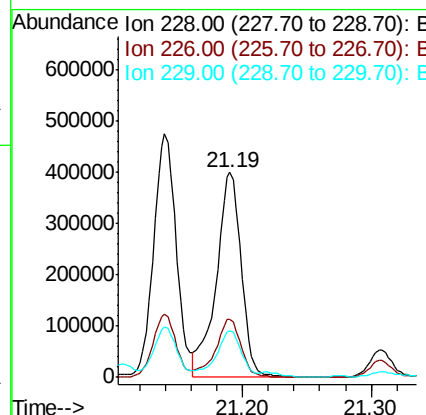
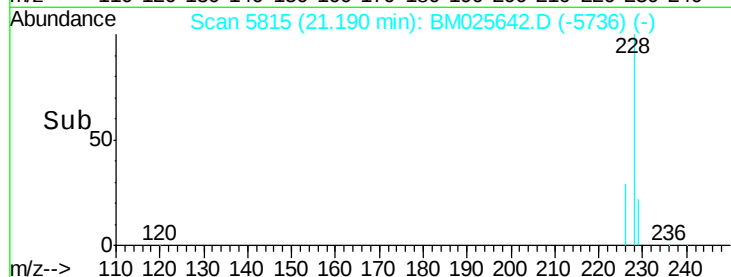
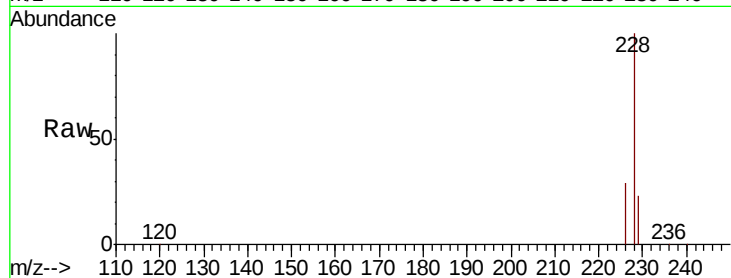
ClientSampleId :

C0AC4DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 537622 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.6  | 23.6  | 35.4   |
| 229       | 22.7  | 16.3  | 24.5   |

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#21

Benzo(b)fluoranthene

Concen: 9.353 ng/ul m

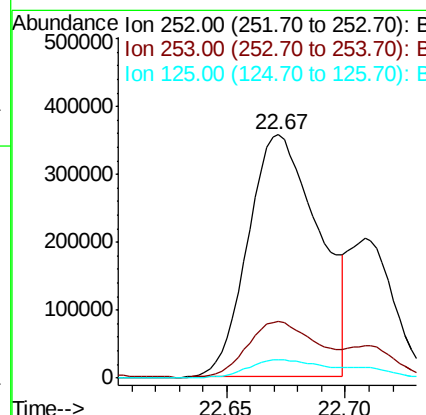
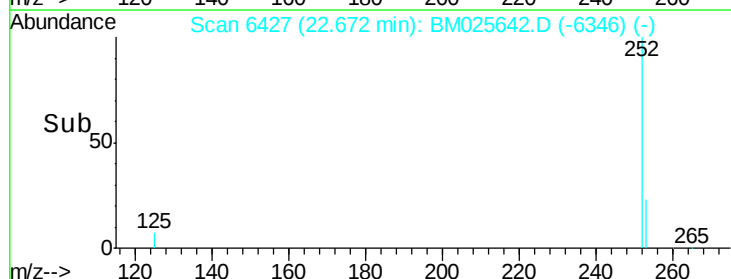
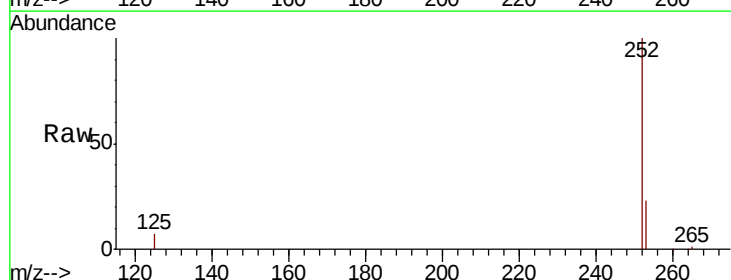
RT: 22.67 min Scan# 6427

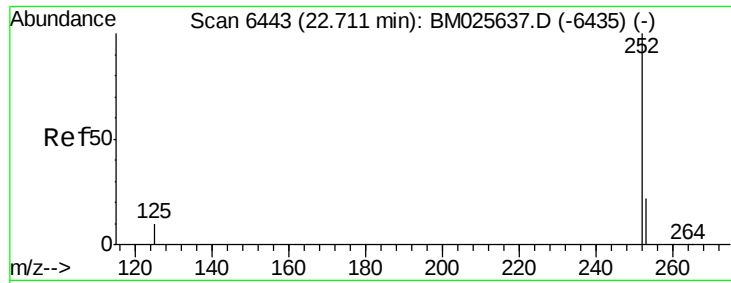
Delta R.T. -0.00 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 736596 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.1  | 0.0   | 50.2   |
| 125       | 7.5   | 0.0   | 17.6   |





#22

Benzo(k)fluoranthene

Concen: 3.207 ng/ul m

RT: 22.71 min Scan# 6442

Delta R.T. -0.01 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

Instrument :

BNA\_M

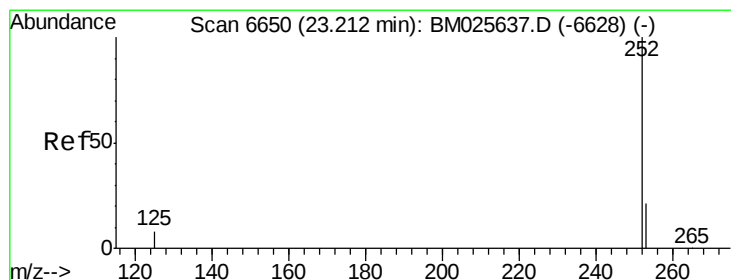
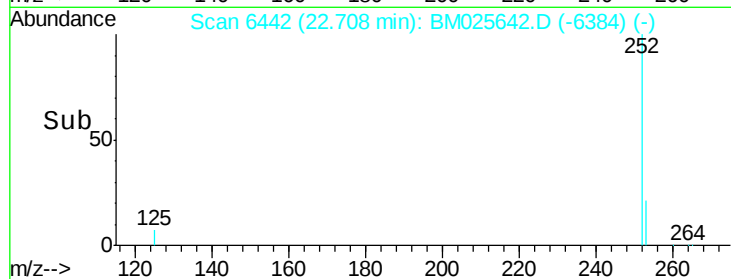
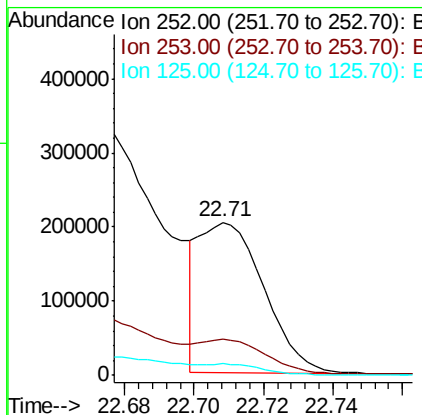
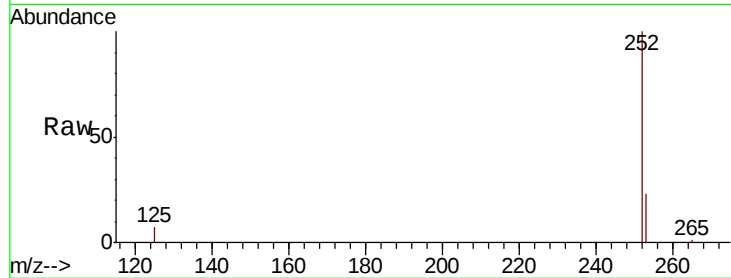
ClientSampleId :

C0AC4DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 264622 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.4  | 19.8  | 29.8   |
| 125       | 7.4   | 7.1   | 10.7   |

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#23

Benzo(a)pyrene

Concen: 8.140 ng/ul m

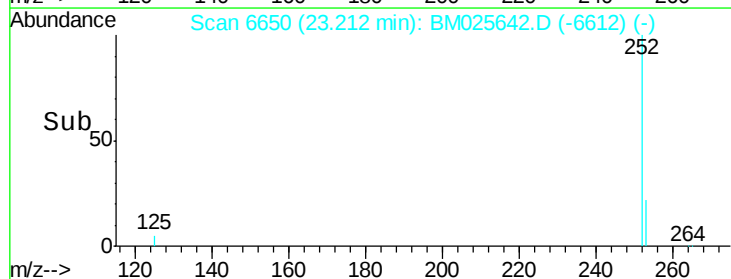
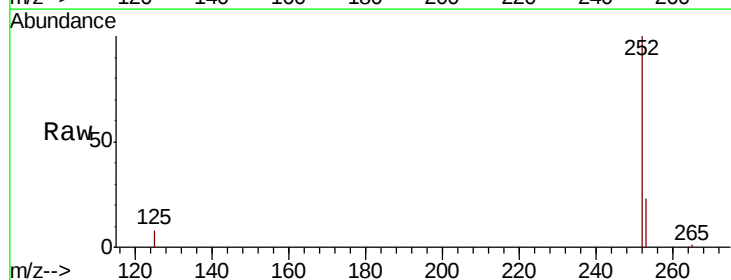
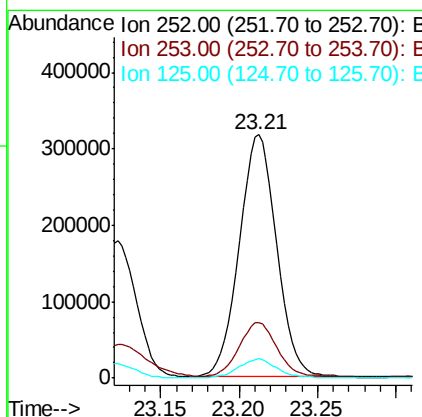
RT: 23.21 min Scan# 6650

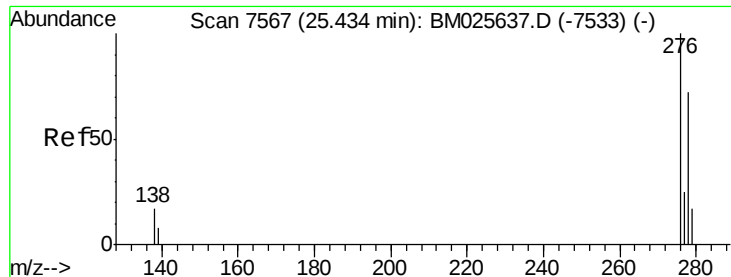
Delta R.T. -0.01 min

Lab File: BM025642.D

Acq: 18 Mar 2020 23:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 532360 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 21.3  | 31.9   |
| 125       | 7.9   | 8.5   | 12.7#  |





#24

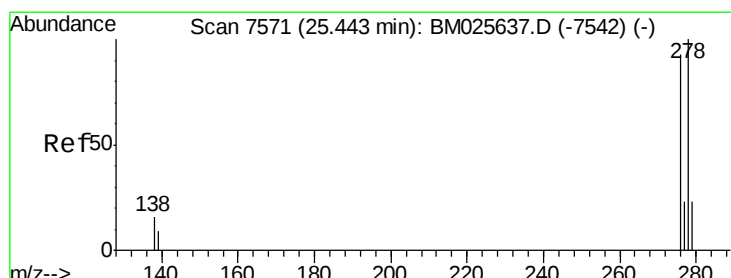
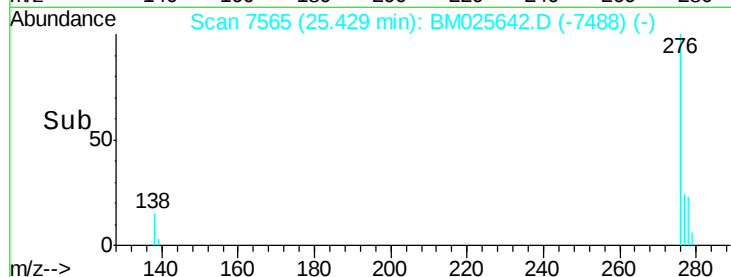
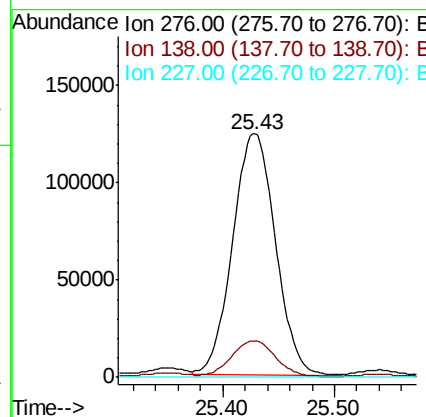
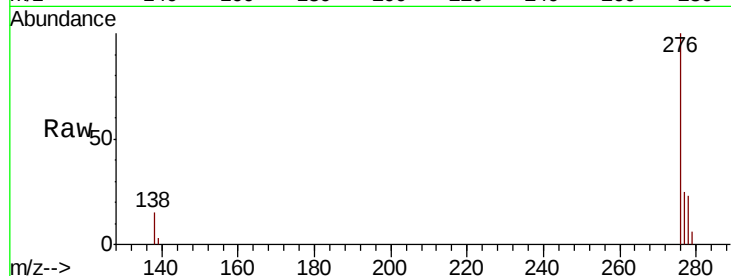
Indeno(1,2,3-cd)pyrene  
Concen: 3.708 ng/ul  
RT: 25.43 min Scan# 7565  
Delta R.T. -0.01 min  
Lab File: BM025642.D  
Acq: 18 Mar 2020 23:34

Instrument :  
BNA\_M  
ClientSampleId :  
C0AC4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.2  | 12.3  | 18.5  |
| 227     | 0.0   | 0.0   | 0.0   |

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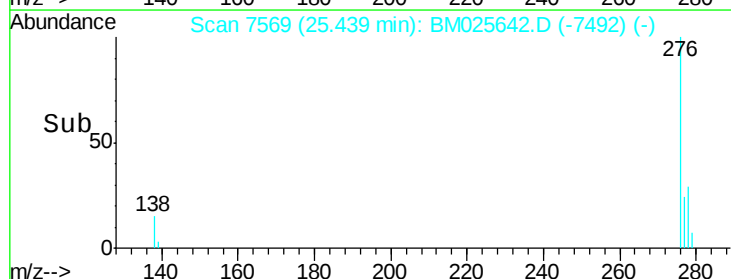
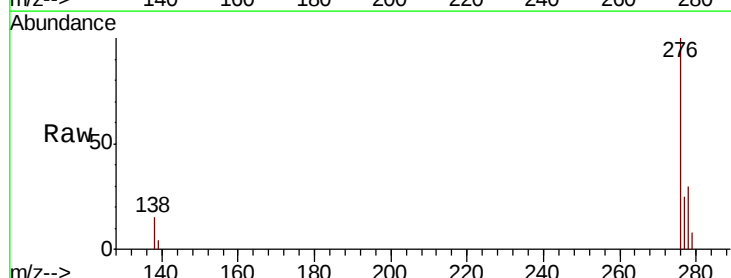
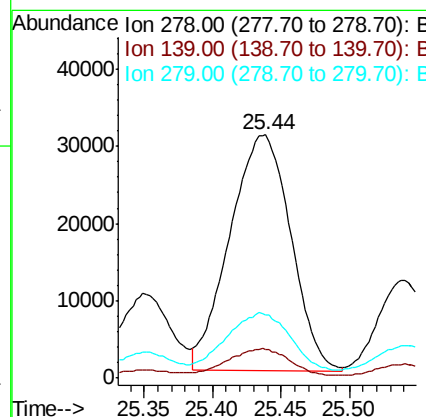
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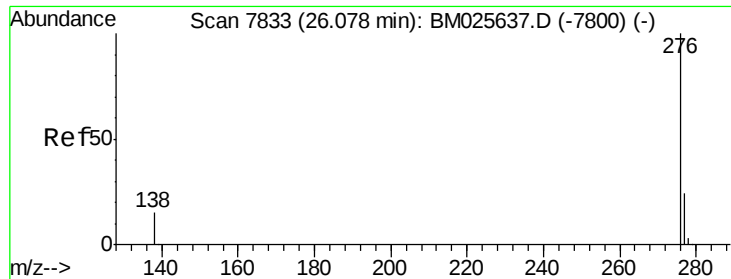


#25

Dibenzo(a,h)anthracene  
Concen: 1.272 ng/ul  
RT: 25.44 min Scan# 7569  
Delta R.T. -0.01 min  
Lab File: BM025642.D  
Acq: 18 Mar 2020 23:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 11.9  | 9.0   | 13.6  |
| 279     | 26.2  | 21.1  | 31.7  |





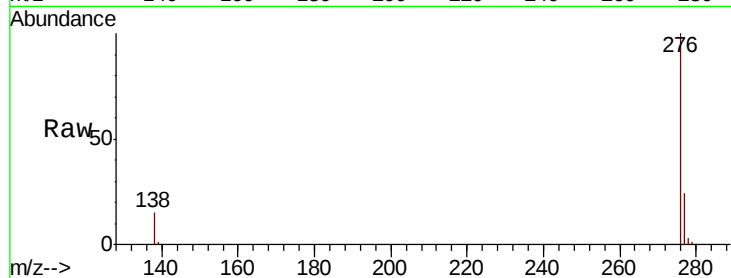
#26  
 Benzo(a,h,i)perylene  
 Concen: 3.166 ng/ul  
 RT: 26.08 min Scan# 7833  
 Delta R.T. -0.01 min  
 Lab File: BM025642.D  
 Acq: 18 Mar 2020 23:34

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC4DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 243717 |       |       |
| 138     | 15.2  |        | 11.0  | 16.4  |
| 277     | 24.1  |        | 19.8  | 29.6  |

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

