

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031320\  
 Data File : BM025544.D  
 Acq On : 13 Mar 2020 16:57  
 Operator : CG/JU  
 Sample : L1786-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AB7

Manual Integrations  
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Quant Time: Mar 13 17:38:08 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 : Fri Mar 13 16:53:43 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.66  | 152  | 2800     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.42 | 136  | 12244    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.28 | 164  | 9321     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.03 | 188  | 21826m   | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.22 | 240  | 16610    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.40 | 264  | 14902    | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 7212     | 0.33  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.05 | 212  | 19460    | 0.32  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.47 | 128  | 10474    | 0.289 | ng/ul  | 100      |
| 5) 2-Methylnaphthalene      | 12.09 | 142  | 2052     | 0.079 | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.00 | 152  | 4149     | 0.109 | ng/ul# | 85       |
| 8) Acenaphthene             | 14.35 | 153  | 12186    | 0.365 | ng/ul  | 99       |
| 9) Fluorene                 | 15.33 | 166  | 13347    | 0.328 | ng/ul  | 100      |
| 12) Phenanthrene            | 17.07 | 178  | 40844    | 0.591 | ng/ul  | 100      |
| 13) Anthracene              | 17.16 | 178  | 12029    | 0.200 | ng/ul  | 98       |
| 15) Fluoranthene            | 19.08 | 202  | 64239    | 0.857 | ng/ul  | 98       |
| 17) Pyrene                  | 19.45 | 202  | 51218    | 0.687 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 25037    | 0.422 | ng/ul  | 97       |
| 19) Chrysene                | 21.25 | 228  | 22267    | 0.334 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.75 | 252  | 28660m   | 0.486 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.79 | 252  | 11391m   | 0.184 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 20039    | 0.409 | ng/ul  | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.57 | 276  | 11703    | 0.176 | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.58 | 278  | 3602     | 0.064 | ng/ul# | 70       |
| 26) Benzo(a,h,i)perylene    | 26.23 | 276  | 10372    | 0.180 | ng/ul# | 95       |

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

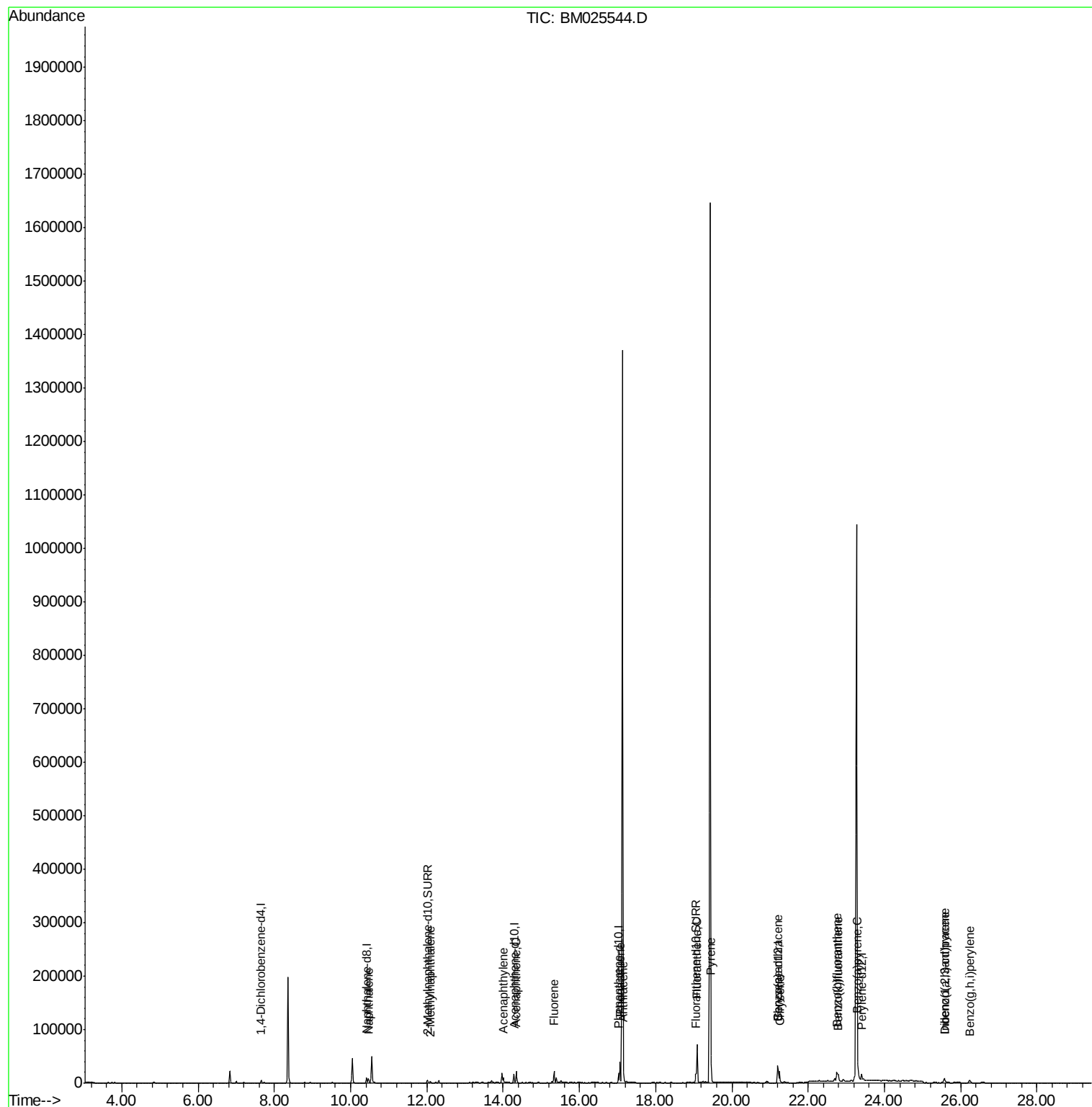
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031320\  
Data File : BM025544.D  
Acq On : 13 Mar 2020 16:57  
Operator : CG/JU  
Sample : L1786-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

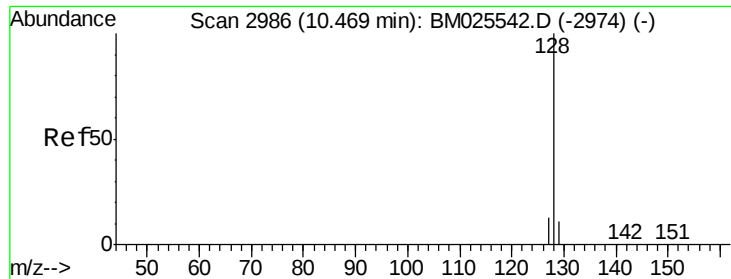
Instrument :  
BNA\_M  
ClientSampleId :  
C0AB7

Quant Time: Mar 13 17:38:08 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 : Fri Mar 13 16:53:43 2020  
Response via : Initial Calibration

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#3

Naphthalene

Concen: 0.289 ng/ul

RT: 10.47 min Scan# 2986

Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

Instrument :

BNA\_M

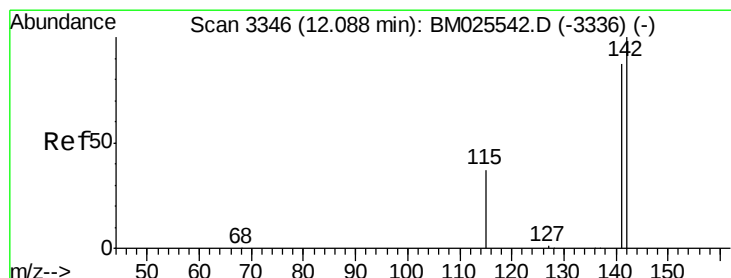
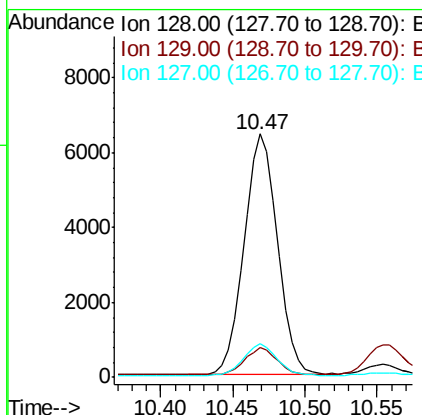
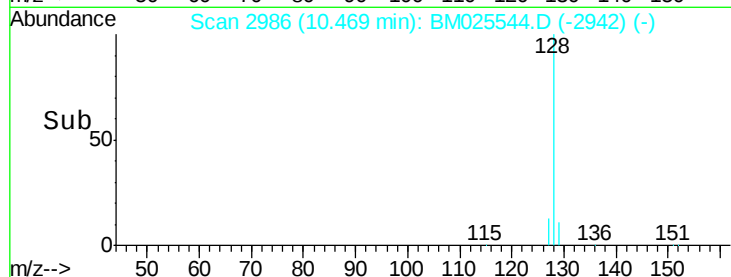
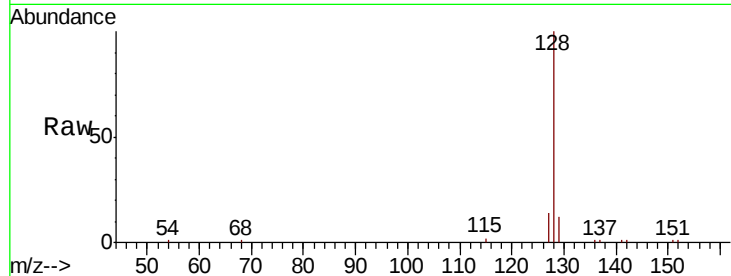
ClientSampleId :

C0AB7

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 10474 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.1  | 9.4   | 14.0  |
| 127      | 13.6  | 10.9  | 16.3  |

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#5

2-Methylnaphthalene

Concen: 0.079 ng/ul

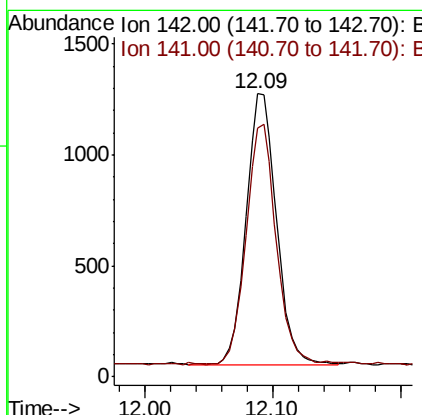
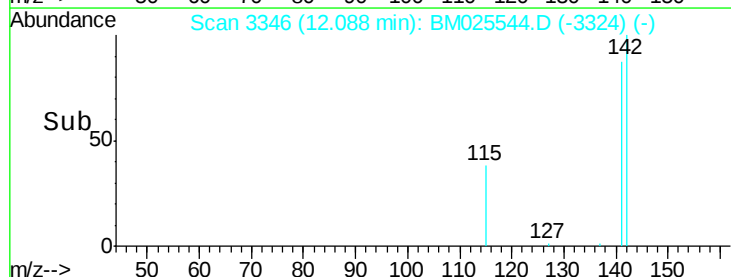
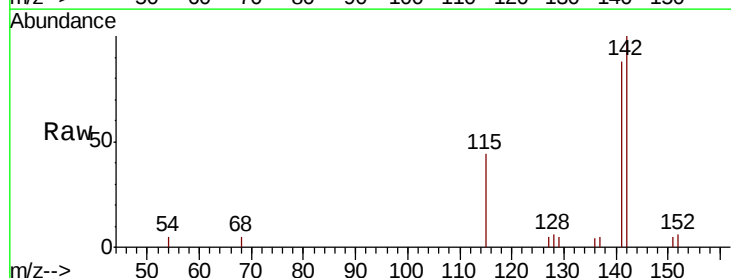
RT: 12.09 min Scan# 3346

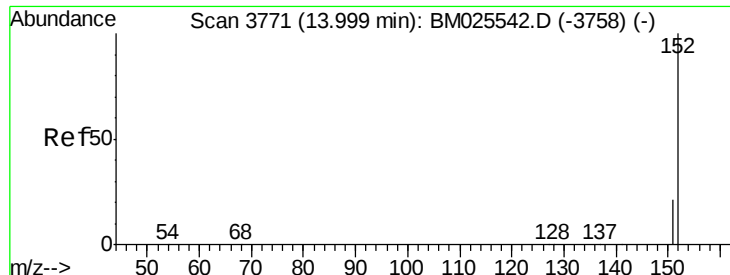
Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2052  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 87.3  | 69.8  | 104.6 |





#7

Acenaphthylene

Concen: 0.109 ng/ul

RT: 14.00 min Scan# 3771

Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

Instrument :

BNA\_M

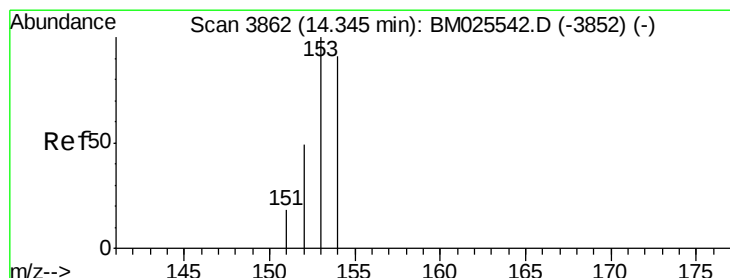
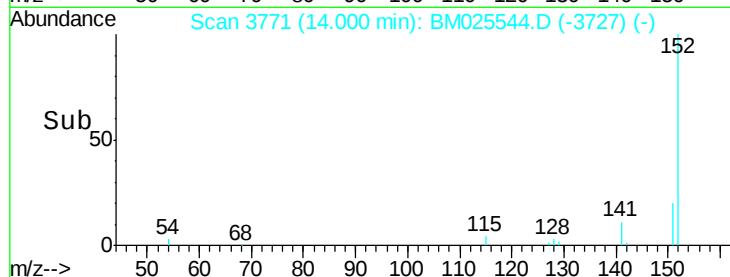
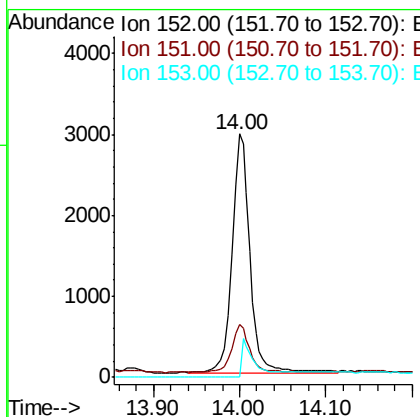
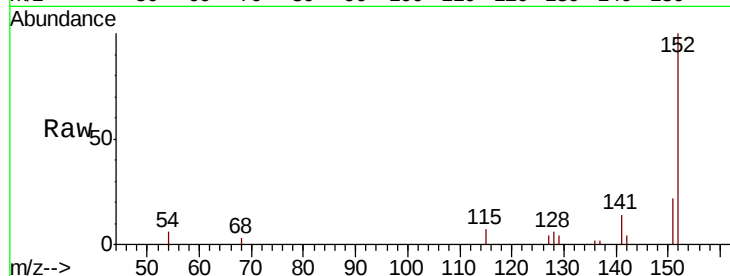
ClientSampleId :

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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 21.8  | 16.2  | 24.2  |
| 153     | 0.0   | 10.6  | 16.0  |

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#8

Acenaphthene

Concen: 0.365 ng/ul

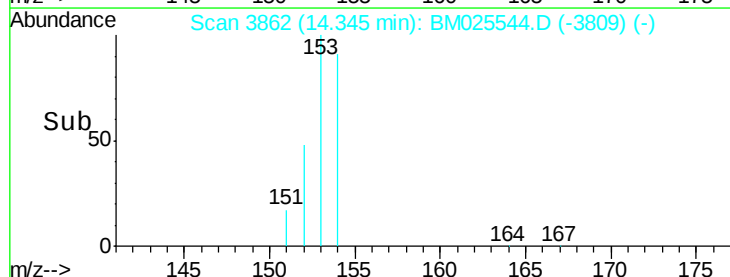
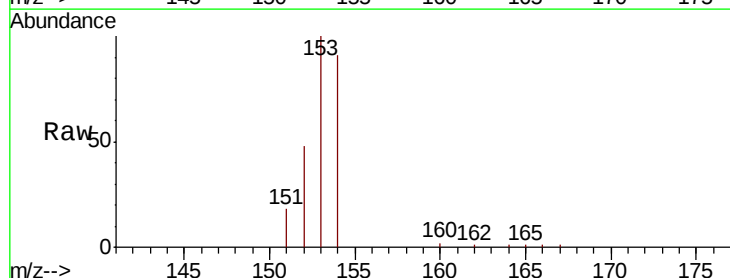
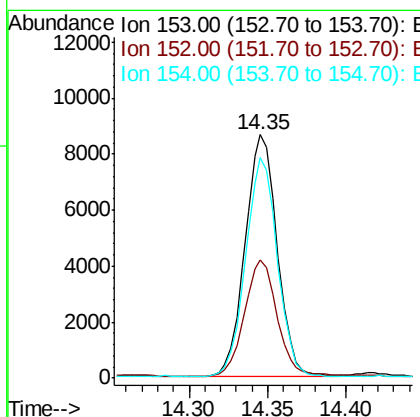
RT: 14.35 min Scan# 3862

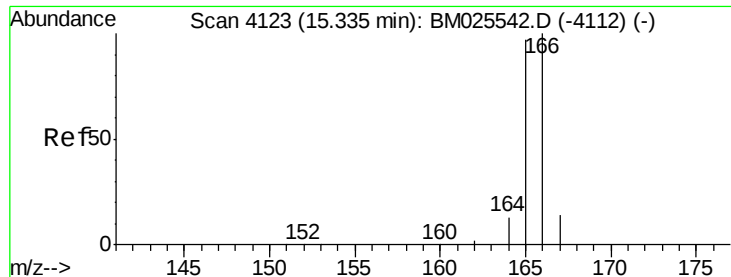
Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 48.5  | 39.5  | 59.3  |
| 154     | 90.6  | 71.7  | 107.5 |





#9

Fluorene

Concen: 0.328 ng/ul

RT: 15.33 min Scan# 4123

Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

Instrument :

BNA\_M

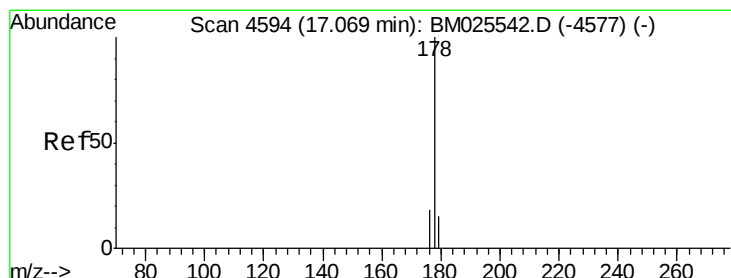
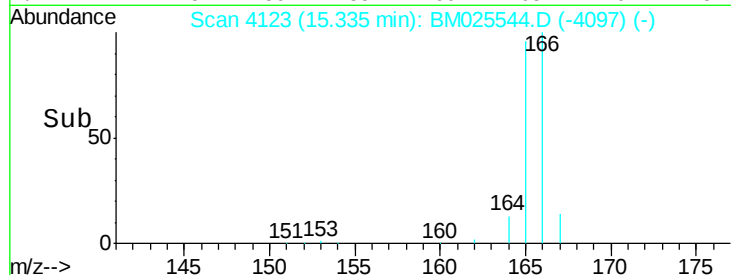
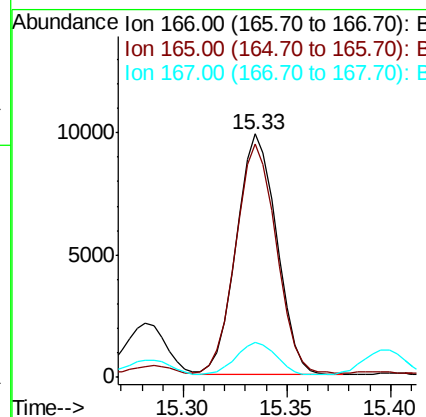
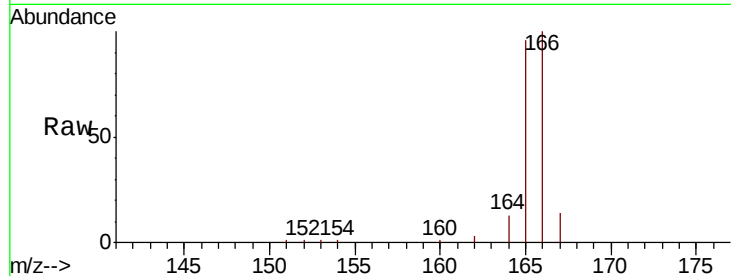
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 13347 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 95.9  | 76.8  | 115.2 |
| 167       | 14.5  | 11.2  | 16.8  |

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#12

Phenanthrene

Concen: 0.591 ng/ul

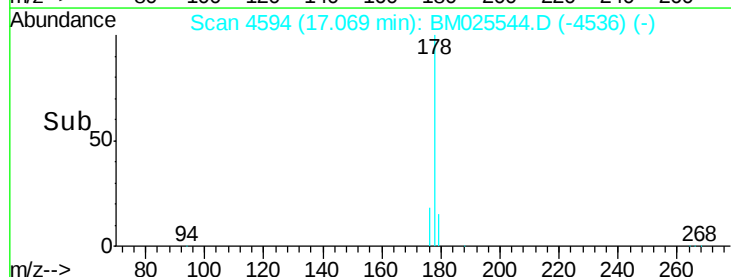
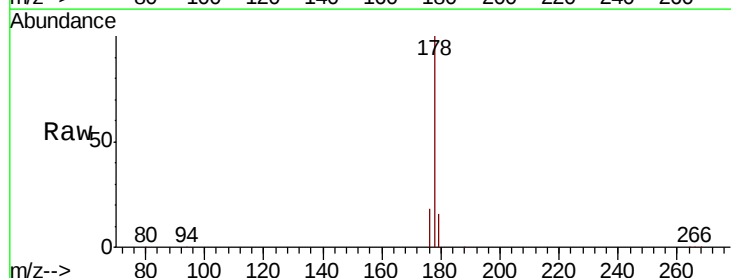
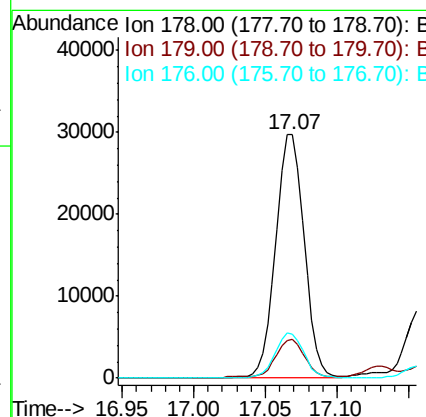
RT: 17.07 min Scan# 4594

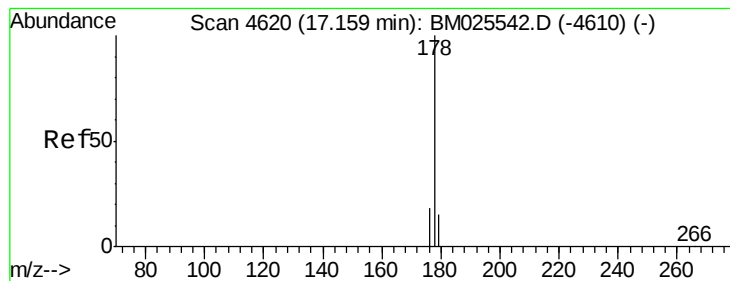
Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 40844 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.7  | 12.4  | 18.6  |
| 176       | 18.3  | 14.8  | 22.2  |





#13

Anthracene

Concen: 0.200 ng/ul

RT: 17.16 min Scan# 4620

Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

Instrument :

BNA\_M

ClientSampleId :

C0AB7

Tot Ion:178 Resp: 12029

Ion Ratio Lower Upper

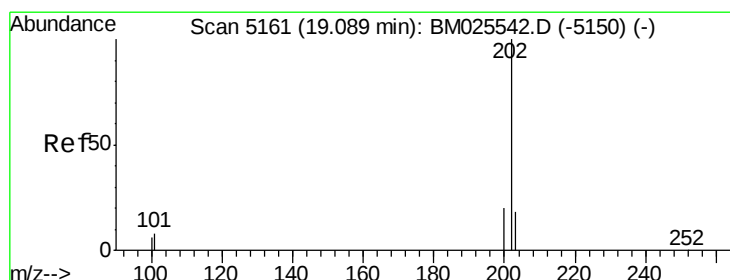
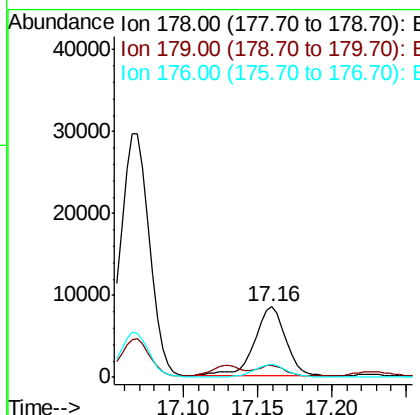
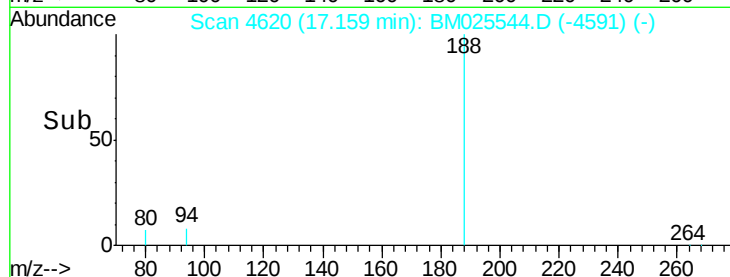
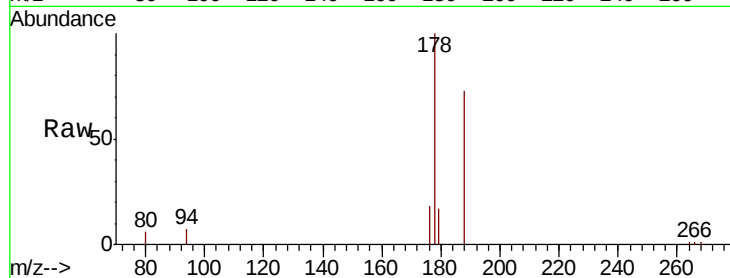
178 100

179 17.0 12.6 18.8

176 18.3 14.5 21.7

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#15

Fluoranthene

Concen: 0.857 ng/ul

RT: 19.08 min Scan# 5160

Delta R.T. -0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

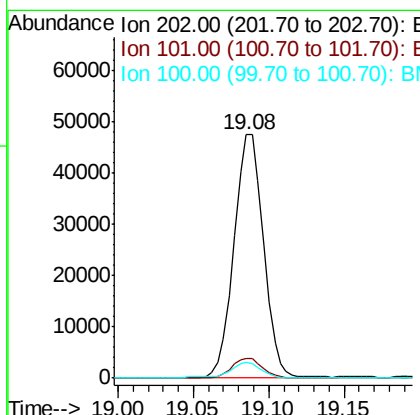
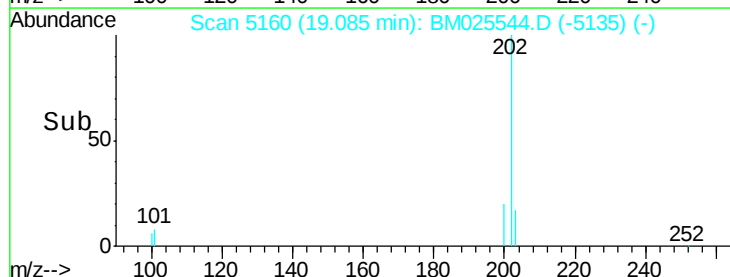
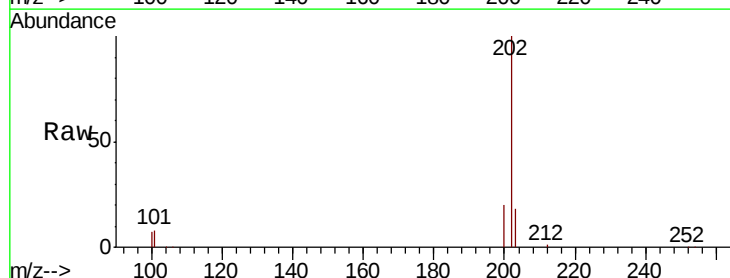
Tgt Ion:202 Resp: 64239

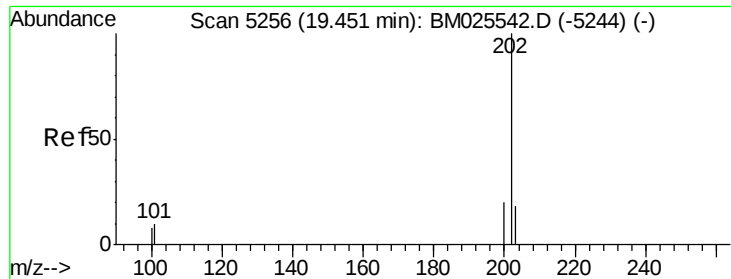
Ion Ratio Lower Upper

202 100

101 8.2 0.0 27.5

100 6.5 0.0 26.0





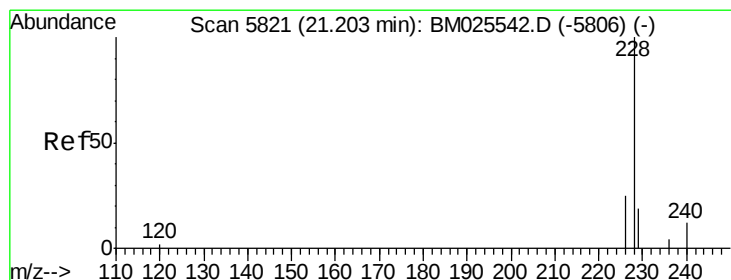
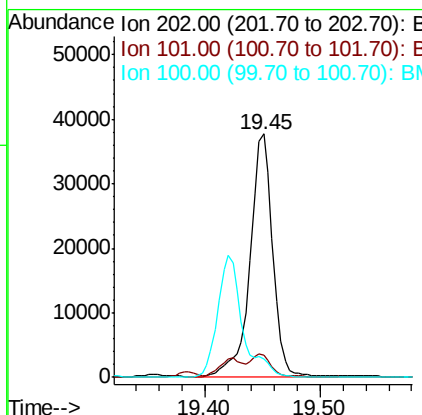
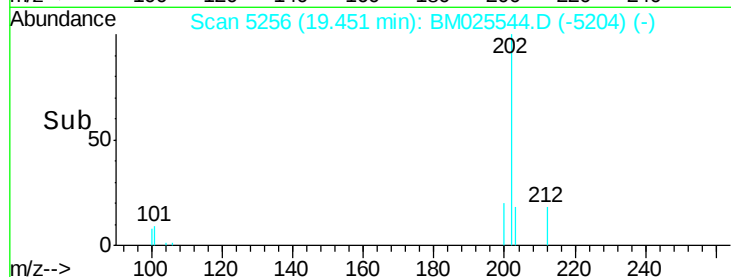
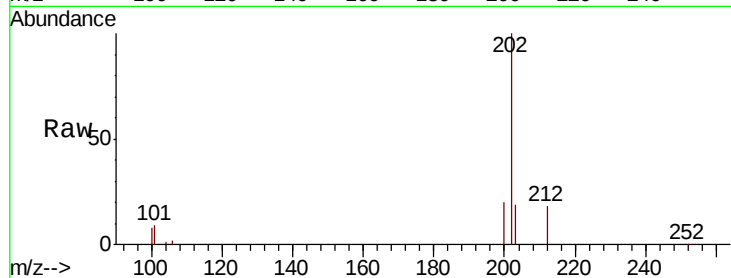
#17  
Pvrene  
Concen: 0.687 ng/ul  
RT: 19.45 min Scan# 5256  
Delta R.T. 0.00 min  
Lab File: BM025544.D  
Acq: 13 Mar 2020 16:57

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 51218 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.2   | 7.1   | 10.7  |
| 100       | 7.7   | 6.0   | 9.0   |

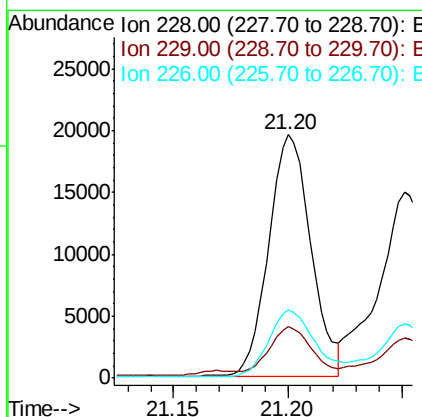
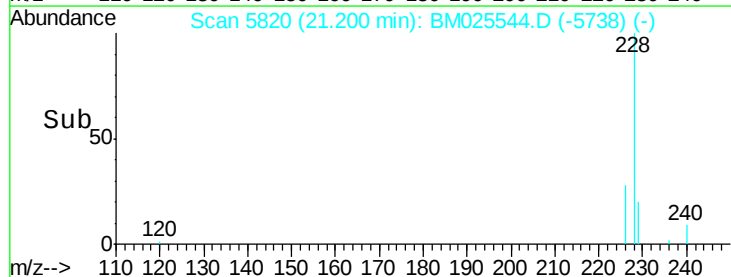
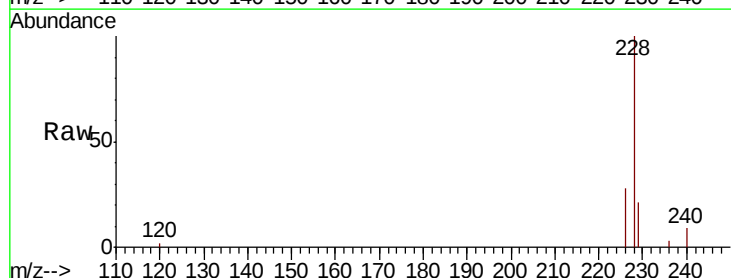
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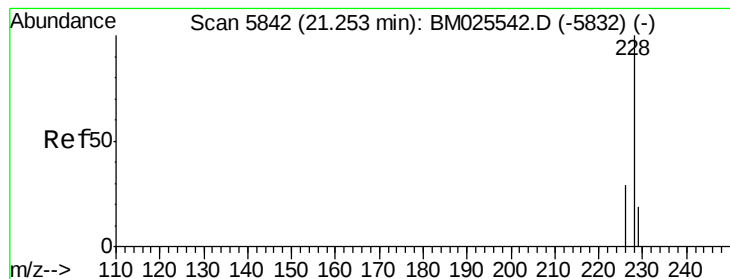
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#18  
Benzo(a)anthracene  
Concen: 0.422 ng/ul  
RT: 21.20 min Scan# 5820  
Delta R.T. -0.00 min  
Lab File: BM025544.D  
Acq: 13 Mar 2020 16:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 25037 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.0  | 15.6  | 23.4  |
| 226       | 28.1  | 21.1  | 31.7  |





#19

Chrysene

Concen: 0.334 ng/ul

RT: 21.25 min Scan# 5841

Delta R.T. -0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

Instrument :

BNA\_M

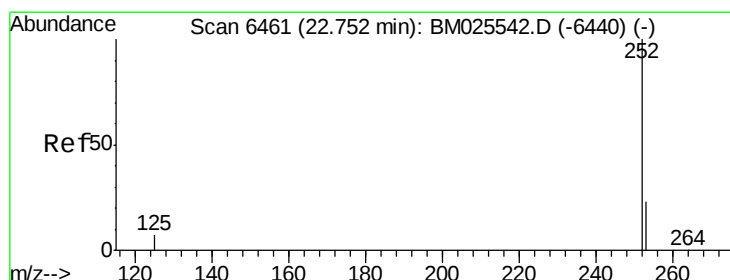
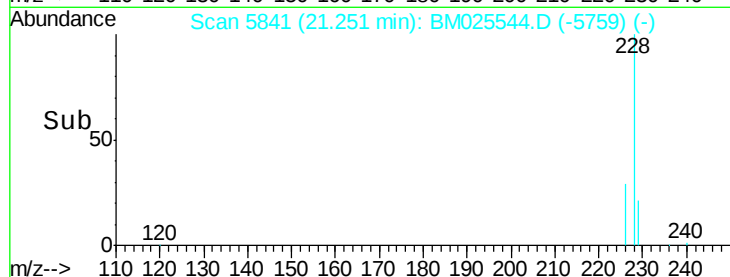
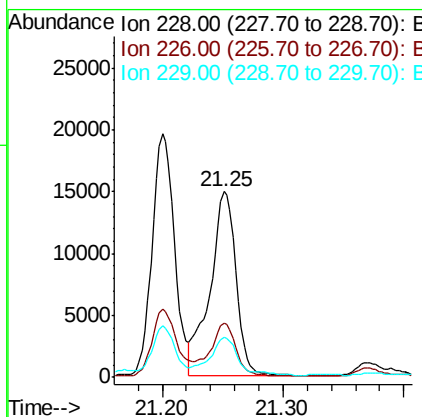
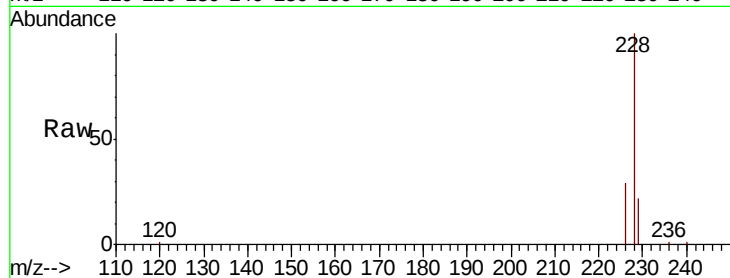
ClientSampled :

C0AB7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 22267 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.1  | 23.6  | 35.4  |
| 229       | 21.7  | 16.3  | 24.5  |

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#21

Benzo(b)fluoranthene

Concen: 0.486 ng/ul m

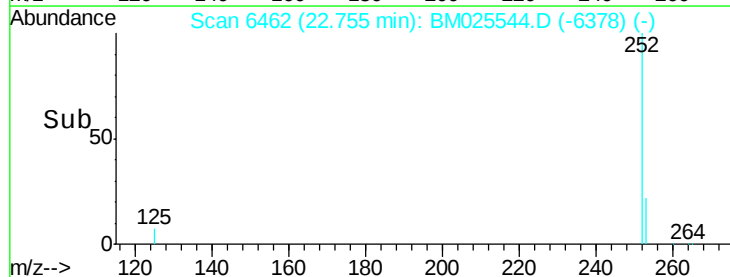
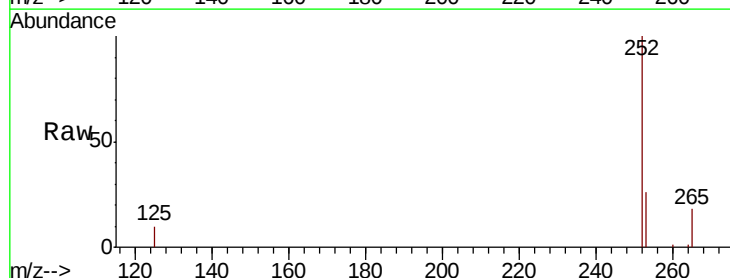
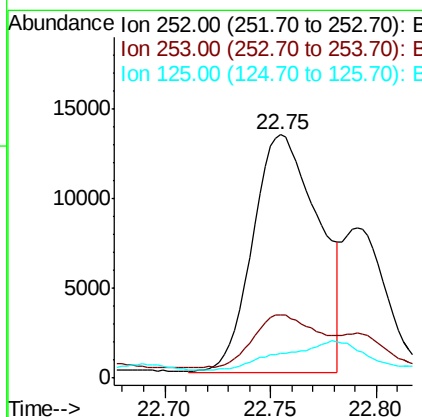
RT: 22.75 min Scan# 6462

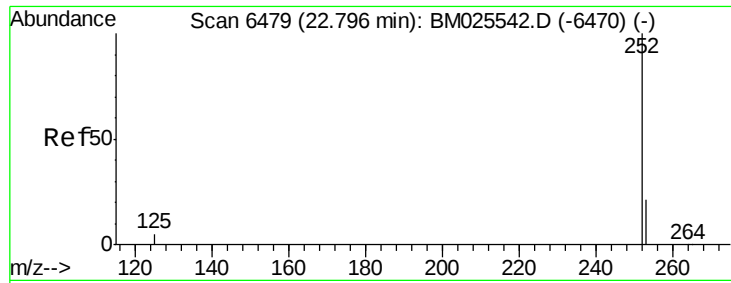
Delta R.T. 0.00 min

Lab File: BM025544.D

Acq: 13 Mar 2020 16:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 28660 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 0.0   | 50.2  |
| 125       | 10.2  | 0.0   | 17.6  |





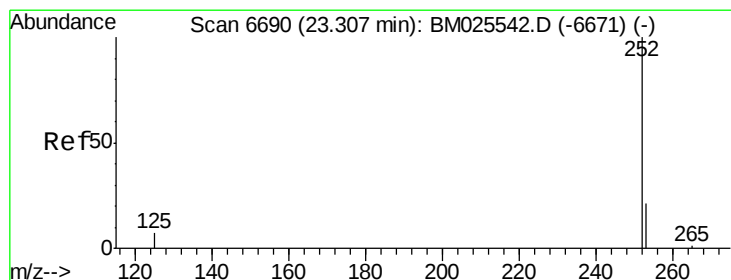
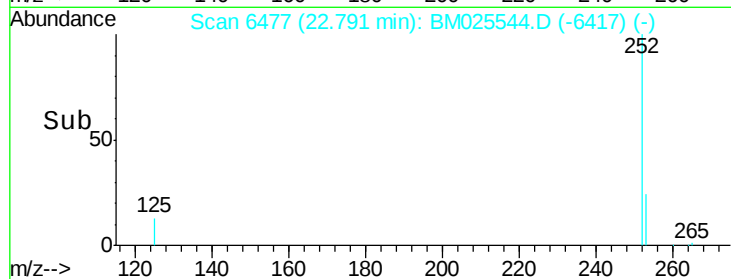
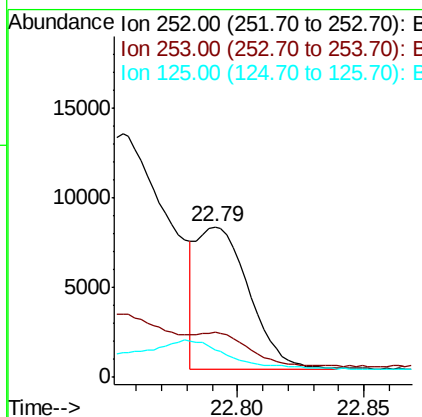
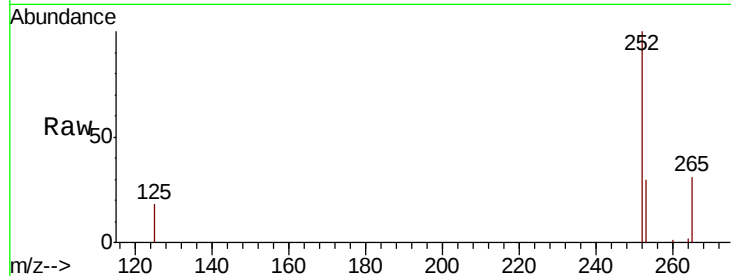
#22  
Benzo(k)fluoranthene  
Concen: 0.184 ng/ul m  
RT: 22.79 min Scan# 6477  
Delta R.T. -0.00 min  
Lab File: BM025544.D  
Acq: 13 Mar 2020 16:57

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.8  | 19.8  | 29.8# |
| 125     | 18.0  | 7.1   | 10.7# |

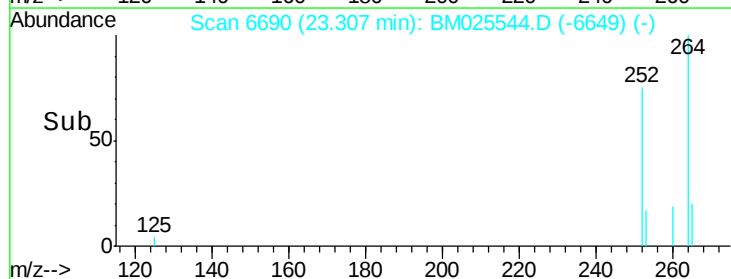
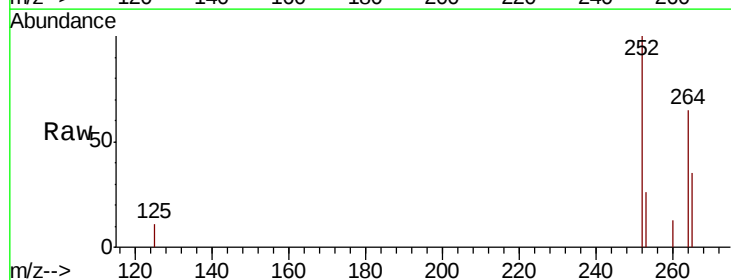
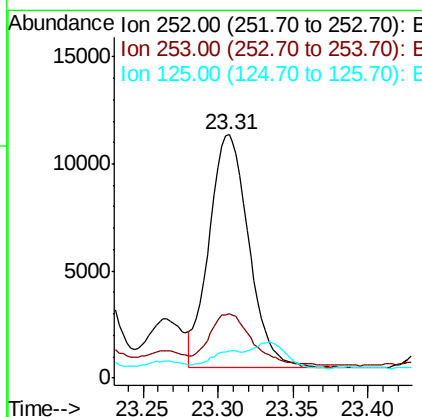
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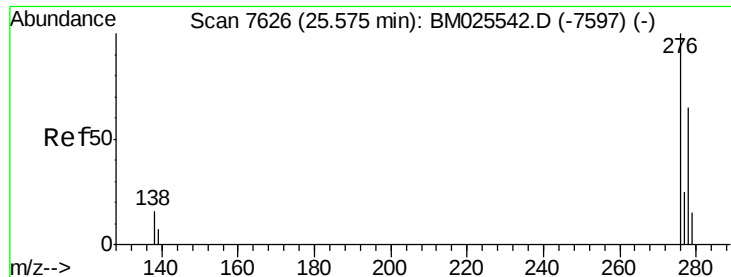
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#23  
Benzo(a)pyrene  
Concen: 0.409 ng/ul  
RT: 23.31 min Scan# 6690  
Delta R.T. 0.00 min  
Lab File: BM025544.D  
Acq: 13 Mar 2020 16:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.5  | 21.3  | 31.9  |
| 125     | 11.4  | 8.5   | 12.7  |





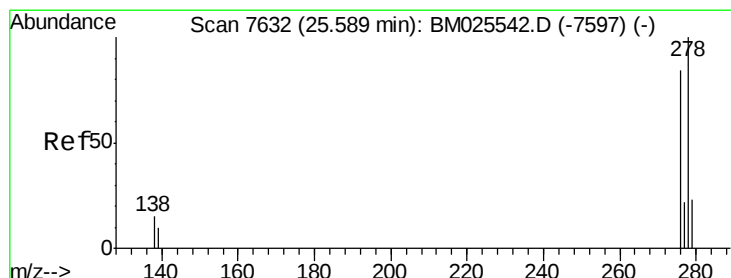
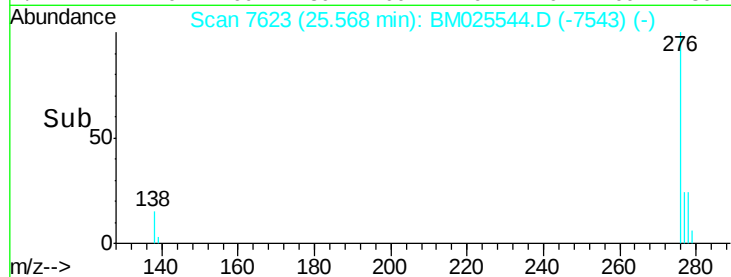
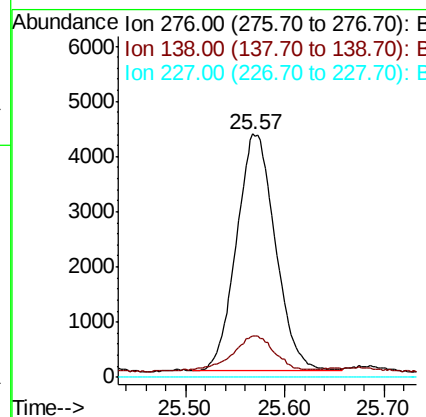
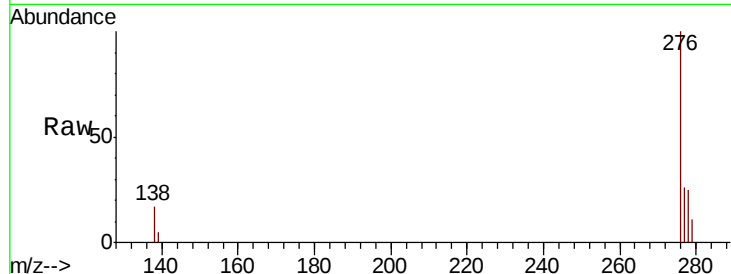
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.176 ng/u1  
 RT: 25.57 min Scan# 7623  
 Delta R.T. -0.01 min  
 Lab File: BM025544.D  
 Acq: 13 Mar 2020 16:57

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AB7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.7  | 12.3  | 18.5  |
| 227     | 0.0   | 0.0   | 0.0   |

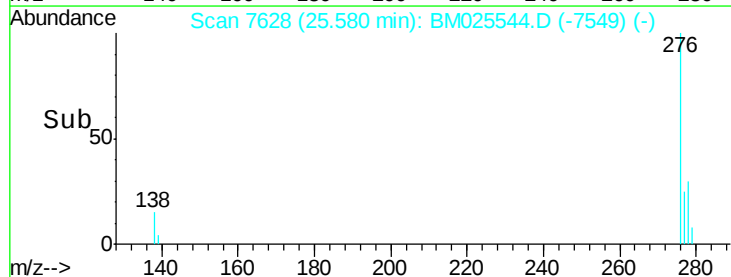
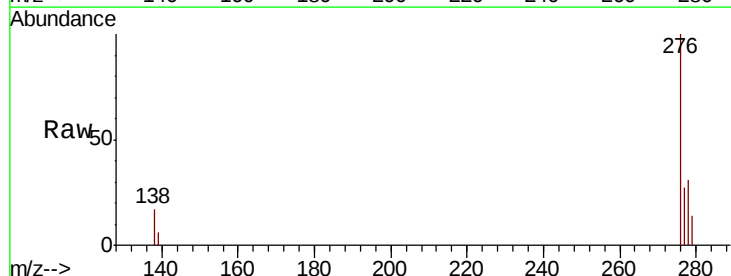
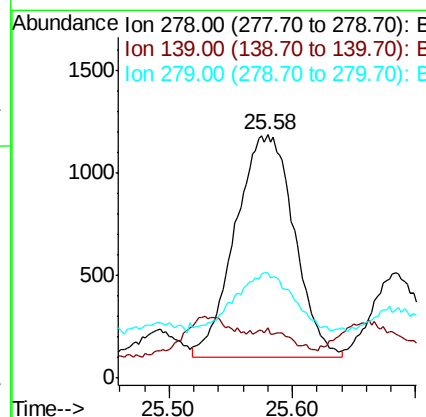
Manual Integrations  
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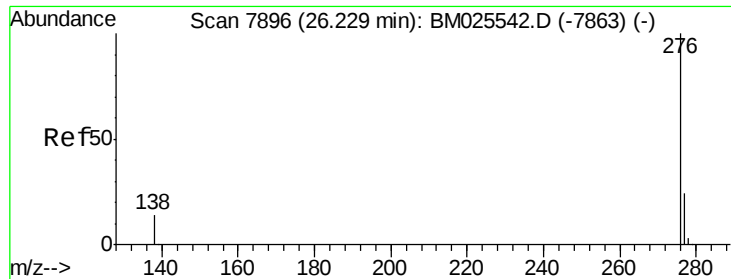
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.064 ng/u1  
 RT: 25.58 min Scan# 7628  
 Delta R.T. -0.01 min  
 Lab File: BM025544.D  
 Acq: 13 Mar 2020 16:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.4  | 9.0   | 31.6# |
| 279     | 43.2  | 21.1  | 31.7# |





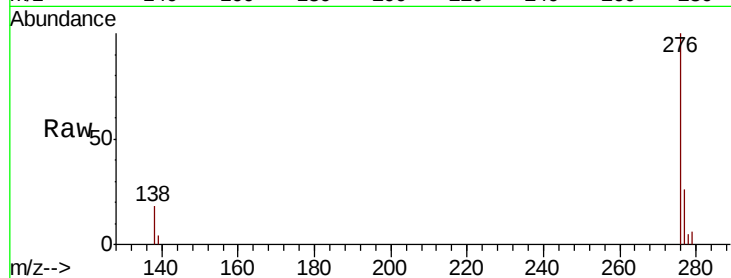
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.180 ng/ul  
 RT: 26.23 min Scan# 7897  
 Delta R.T. 0.00 min  
 Lab File: BM025544.D  
 Acq: 13 Mar 2020 16:57

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AB7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.5  | 11.0  | 16.4# |
| 277     | 26.2  | 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

