

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021821\  
 Data File : BM028795.D  
 Acq On : 18 Feb 2021 14:14  
 Operator : CG/JU  
 Sample : M1379-10DL 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGZ0DL

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 2/19/2021 1:19:42 PM

Quant Time: Feb 18 14:49:56 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM020521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 18 13:03:27 2021  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 463      | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 1886     | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.54 | 164  | 1104     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.28 | 188  | 2028     | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.43 | 240  | 2009     | 0.40  | ng/ul  | 0.01     |
| 20) Perylene-d12            | 23.67 | 264  | 1942     | 0.40  | ng/ul  | 0.01     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 98       | 0.04  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.29 | 212  | 222      | 0.04  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.75 | 128  | 769      | 0.164 | ng/ul# | 84       |
| 5) 2-Methylnaphthalene      | 12.37 | 142  | 502      | 0.160 | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.27 | 152  | 338      | 0.075 | ng/ul# | 58       |
| 8) Acenaphthene             | 14.61 | 153  | 3333     | 0.933 | ng/ul  | 98       |
| 9) Fluorene                 | 15.59 | 166  | 5400     | 1.362 | ng/ul  | 97       |
| 12) Phenanthrene            | 17.32 | 178  | 38893    | 6.862 | ng/ul  | 95       |
| 13) Anthracene              | 17.41 | 178  | 5947     | 1.100 | ng/ul  | 99       |
| 15) Fluoranthene            | 19.33 | 202  | 25499    | 3.952 | ng/ul  | 93       |
| 17) Pyrene                  | 19.69 | 202  | 18697    | 2.561 | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.42 | 228  | 5308     | 0.774 | ng/ul  | 95       |
| 19) Chrysene                | 21.47 | 228  | 5044m    | 0.740 | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 23.00 | 252  | 4489m    | 0.675 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.04 | 252  | 1599m    | 0.241 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.57 | 252  | 2743     | 0.463 | ng/ul# | 74       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.93 | 276  | 1570     | 0.204 | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.94 | 278  | 447      | 0.069 | ng/ul# | 1        |
| 26) Benzo(a,h,i)perylene    | 26.63 | 276  | 1248     | 0.194 | ng/ul# | 68       |

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

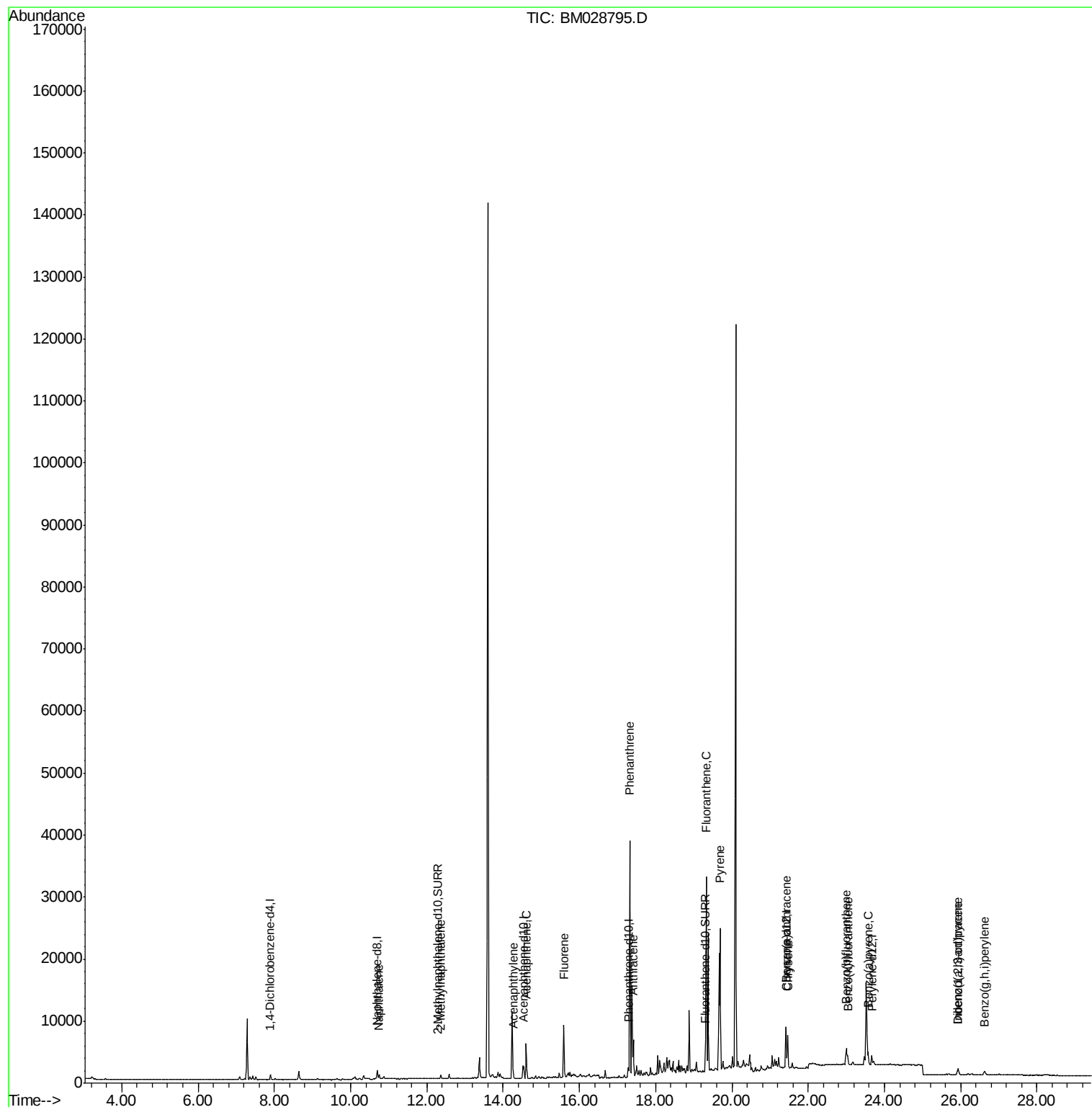
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021821\  
Data File : BM028795.D  
Acq On : 18 Feb 2021 14:14  
Operator : CG/JU  
Sample : M1379-10DL 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

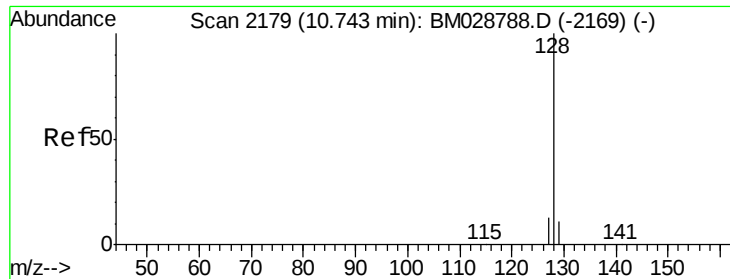
Instrument :  
BNA\_M  
ClientSampleId :  
DBGZ0DL

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Quant Time: Feb 18 14:49:56 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM020521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 18 13:03:27 2021  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.164 ng/ul

RT: 10.75 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

Instrument :

BNA\_M

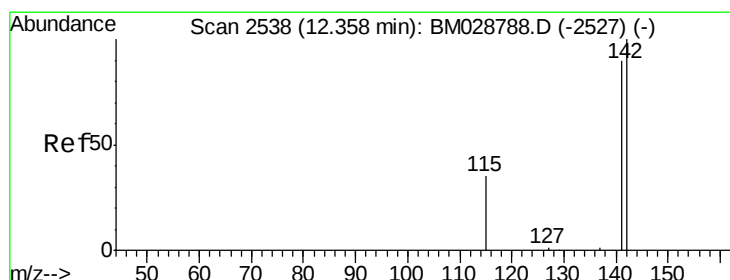
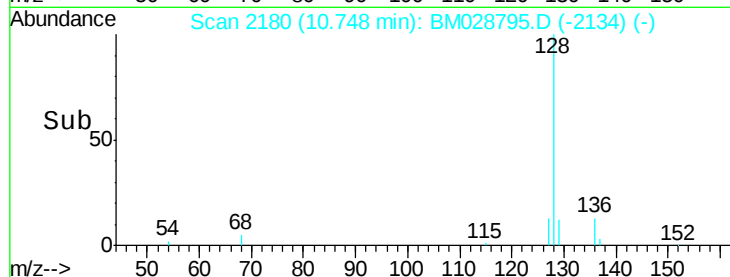
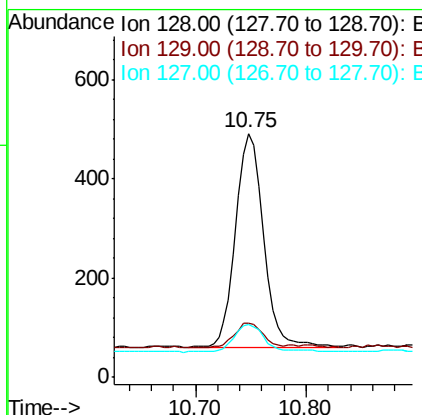
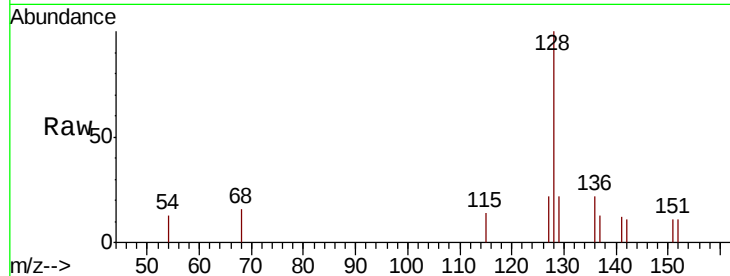
ClientSampleId :

DBGZ0DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 769   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 22.4  | 11.4  | 17.2# |
| 127      | 21.8  | 13.0  | 19.6# |

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#5

2-Methylnaphthalene

Concen: 0.160 ng/ul

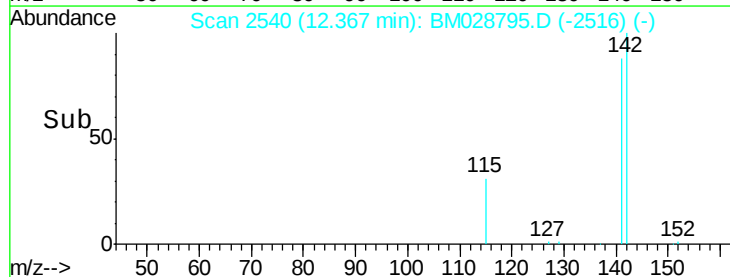
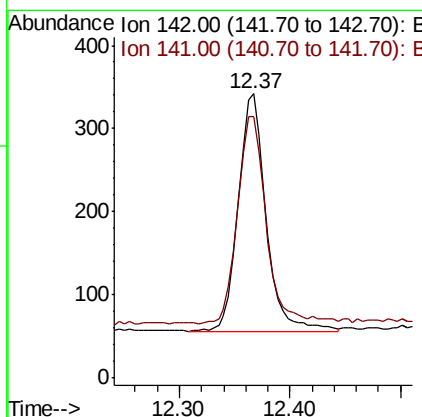
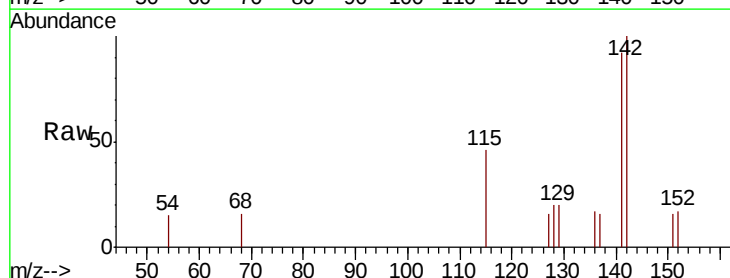
RT: 12.37 min Scan# 2540

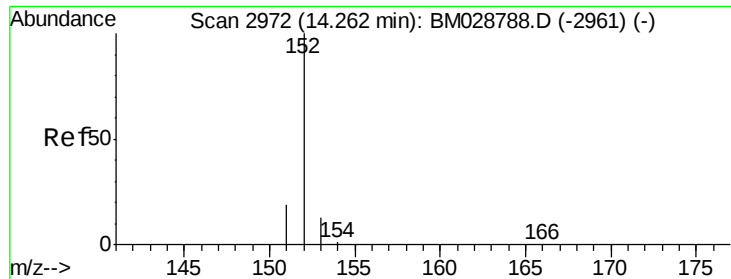
Delta R.T. 0.01 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 502   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 91.2  | 72.2  | 108.4 |





#7

Acenaphthylene

Concen: 0.075 ng/ul

RT: 14.27 min Scan# 2974

Delta R.T. 0.01 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

Instrument :

BNA\_M

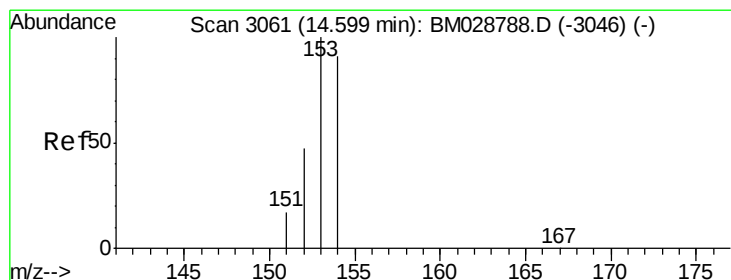
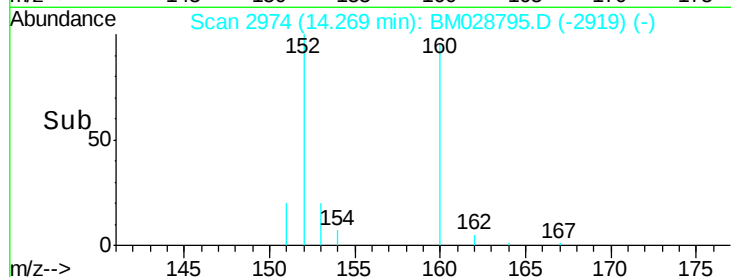
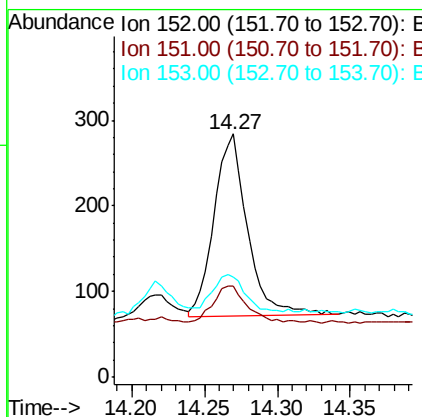
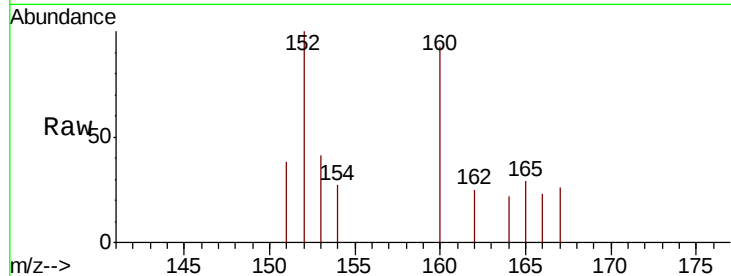
ClientSampleId :

DBGZ0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 37.7  | 18.0  | 27.0# |
| 153     | 40.8  | 13.4  | 20.0# |

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#8

Acenaphthene

Concen: 0.933 ng/ul

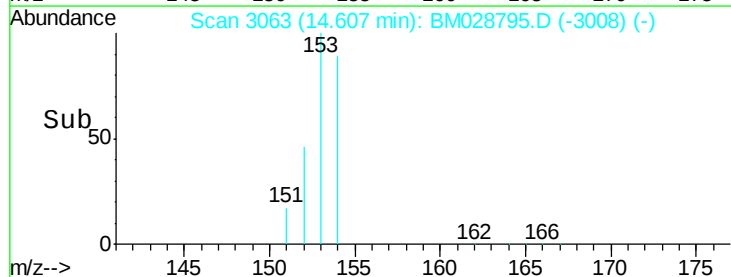
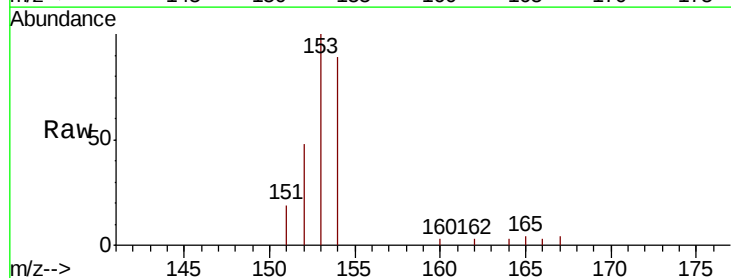
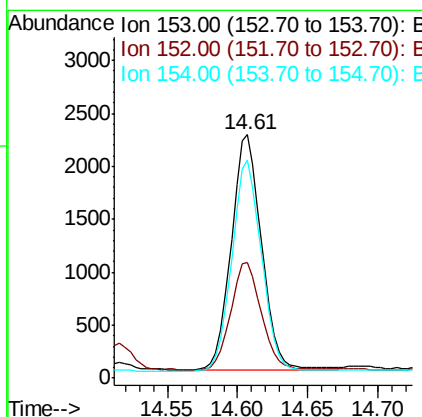
RT: 14.61 min Scan# 3063

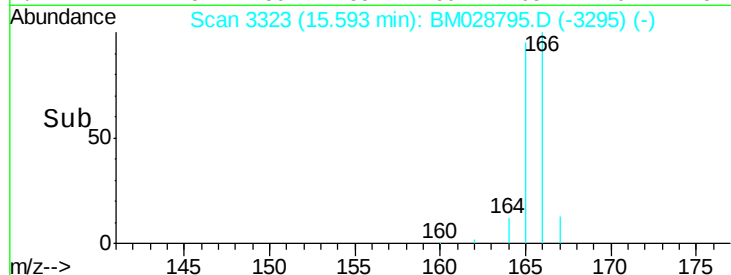
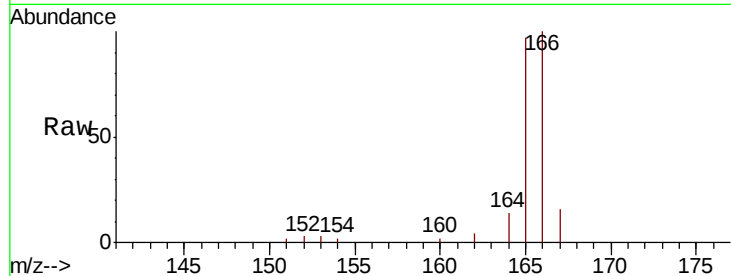
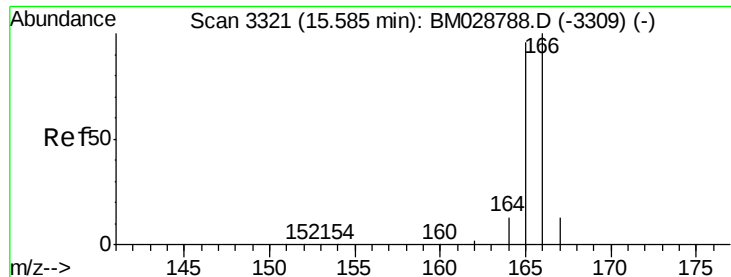
Delta R.T. 0.01 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.7  | 39.6  | 59.4  |
| 154     | 89.3  | 70.3  | 105.5 |





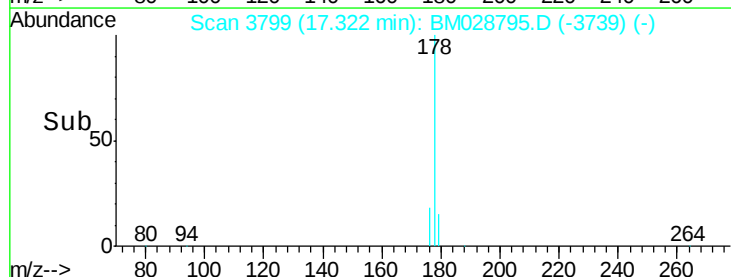
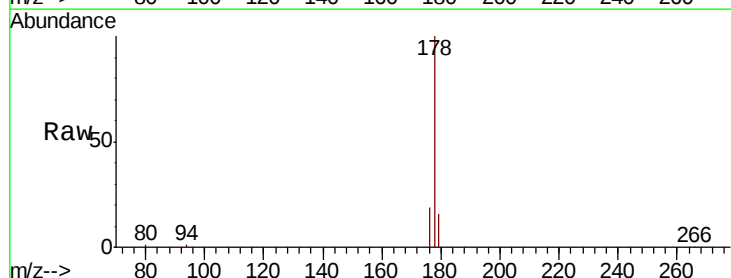
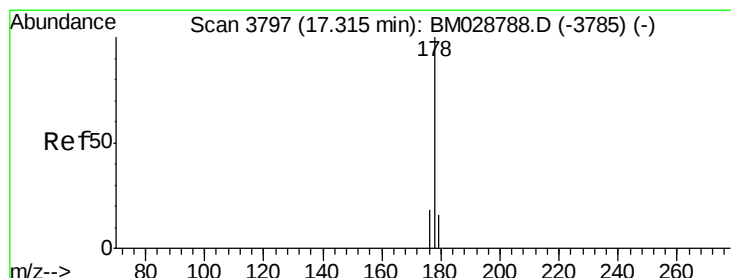
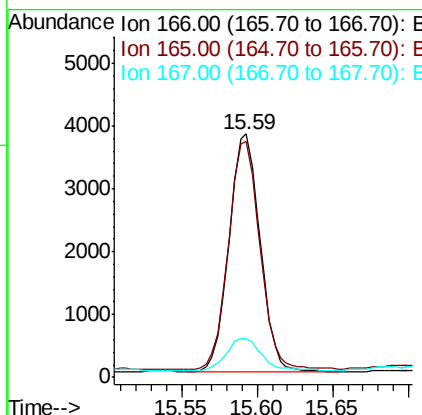
#9  
**Fluorene**  
 Concen: 1.362 ng/ul  
 RT: 15.59 min Scan# 3323  
 Delta R.T. 0.01 min  
 Lab File: BM028795.D  
 Acq: 18 Feb 2021 14:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 5400  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.8  | 79.6  | 119.4 |
| 167       | 16.2  | 13.9  | 20.9  |

Instrument :  
 BNA\_M  
 ClientSampleID :  
 DBGZ0DL

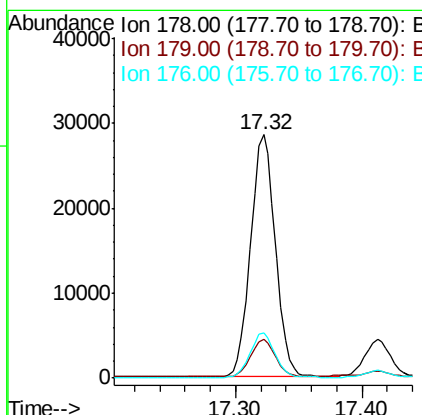
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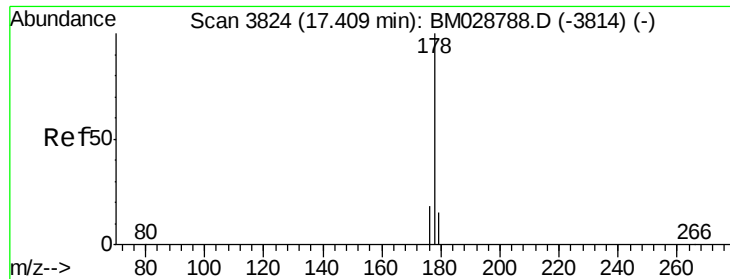
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#12  
**Phenanthrene**  
 Concen: 6.862 ng/ul  
 RT: 17.32 min Scan# 3799  
 Delta R.T. 0.01 min  
 Lab File: BM028795.D  
 Acq: 18 Feb 2021 14:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 38893 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.8  | 14.7  | 22.1  |
| 176       | 18.6  | 16.7  | 25.1  |





#13

Anthracene

Concen: 1.100 ng/ul

RT: 17.41 min Scan# 3825

Delta R.T. 0.00 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

Instrument :

BNA\_M

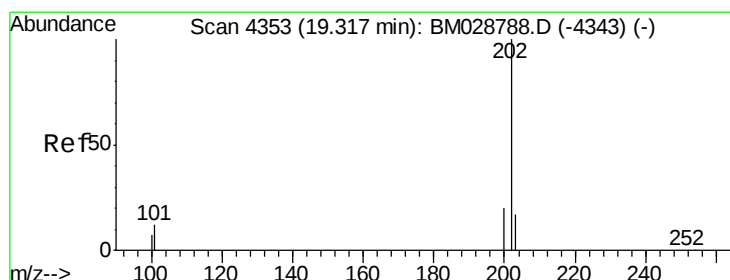
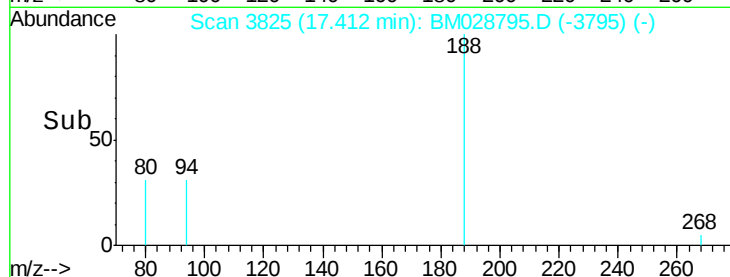
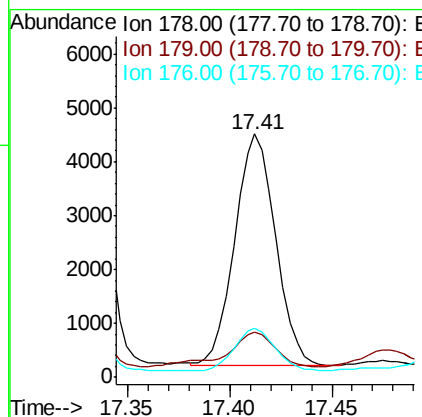
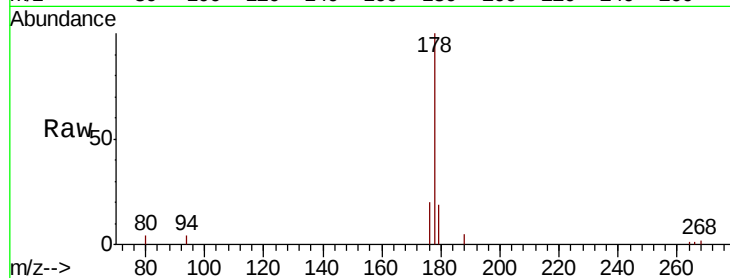
ClientSampleId :

DBGZ0DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 178   | Resp: | 5947 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 18.6  | 15.0  | 22.4 |
| 176       | 20.1  | 16.6  | 24.8 |

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#15

Fluoranthene

Concen: 3.952 ng/ul

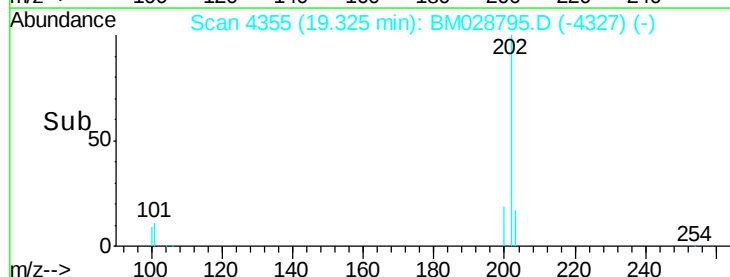
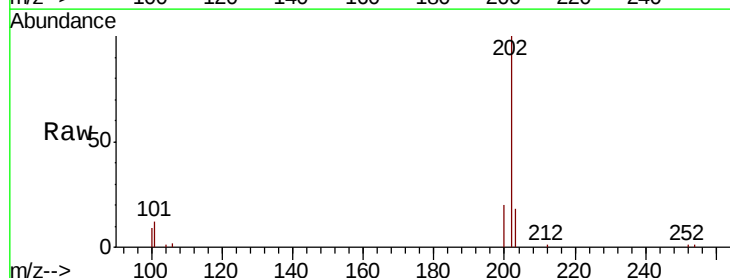
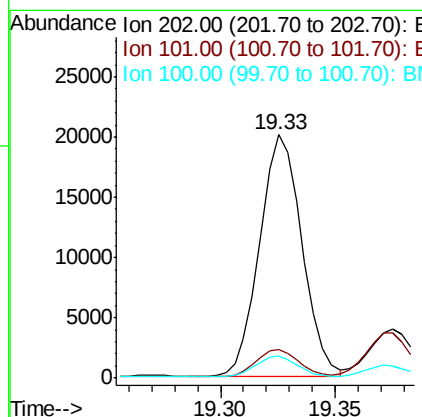
RT: 19.33 min Scan# 4355

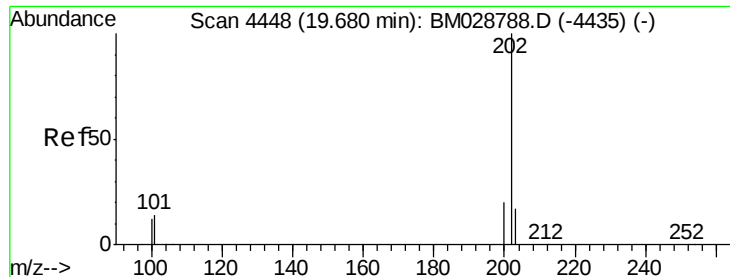
Delta R.T. 0.01 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 25499 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.9  | 0.0   | 34.5  |
| 100       | 9.1   | 0.0   | 31.7  |





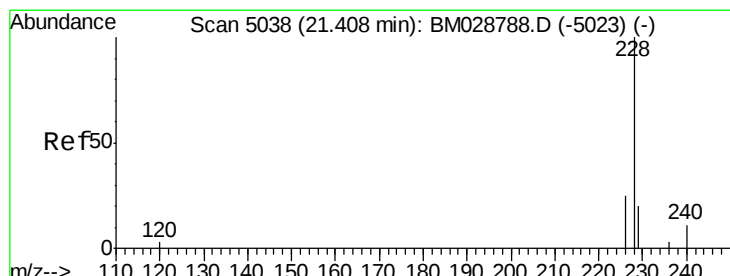
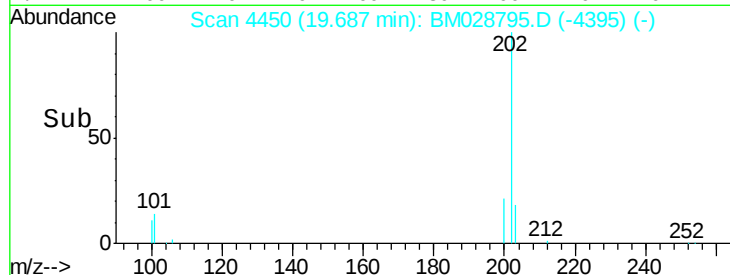
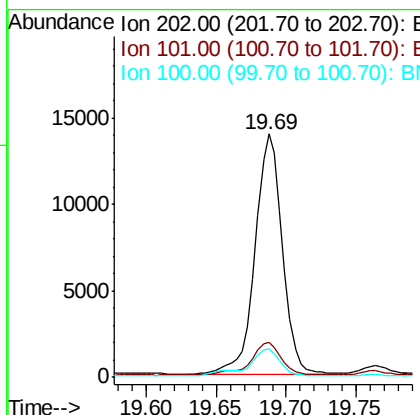
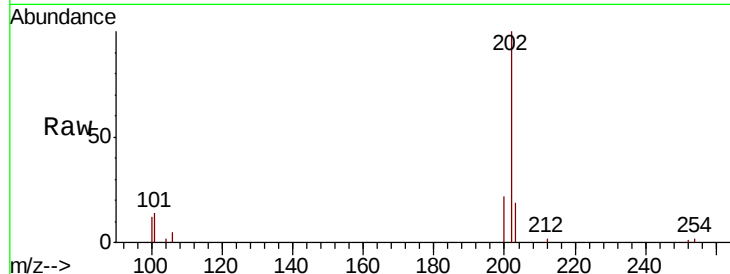
#17  
Pvrene  
Concen: 2.561 ng/ul  
RT: 19.69 min Scan# 4450  
Delta R.T. 0.01 min  
Lab File: BM028795.D  
Acq: 18 Feb 2021 14:14

Instrument :  
BNA\_M  
ClientSampleId :  
DBGZ0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.2  | 12.7  | 19.1  |
| 100     | 11.6  | 10.2  | 15.4  |

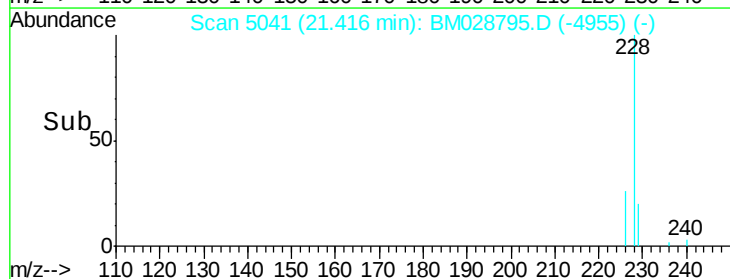
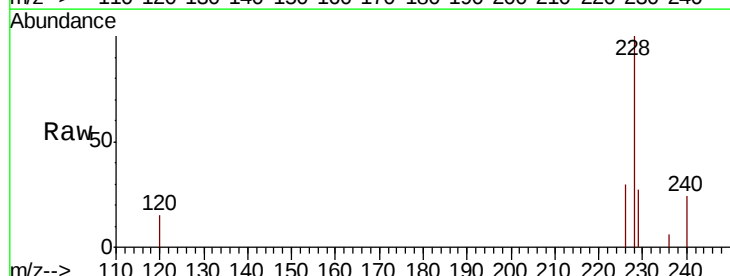
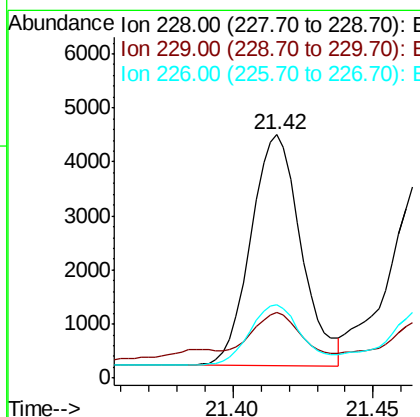
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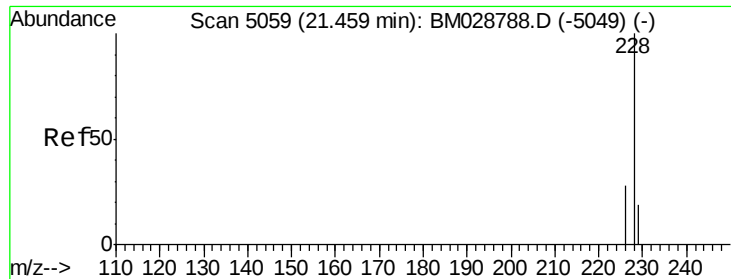
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#18  
Benzo(a)anthracene  
Concen: 0.774 ng/ul  
RT: 21.42 min Scan# 5041  
Delta R.T. 0.01 min  
Lab File: BM028795.D  
Acq: 18 Feb 2021 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 26.7  | 18.9  | 28.3  |
| 226     | 29.9  | 22.6  | 34.0  |





#19

Chrysene

Concen: 0.740 ng/ul m

RT: 21.47 min Scan# 5062

Delta R.T. 0.01 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

Instrument :

BNA\_M

ClientSampleId :

DBGZ0DL

Tot Ion:228 Resp: 5044

Ion Ratio Lower Upper

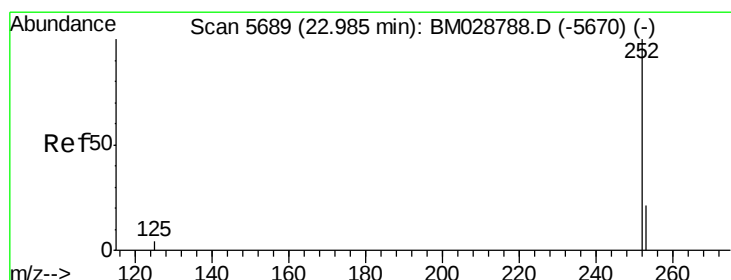
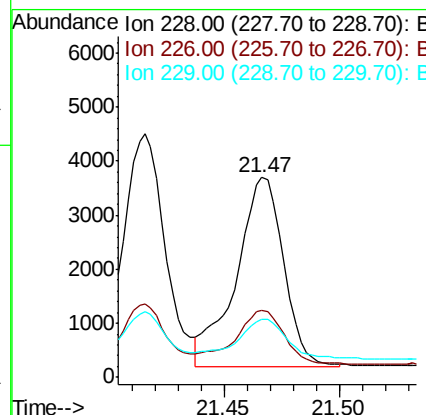
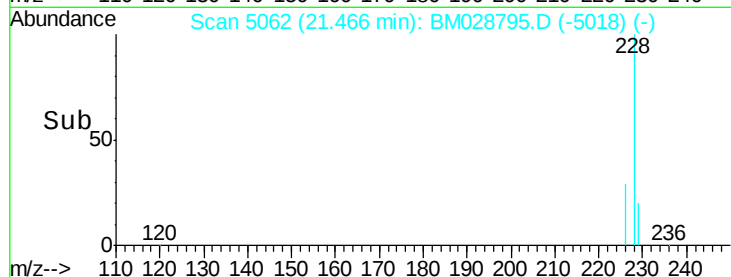
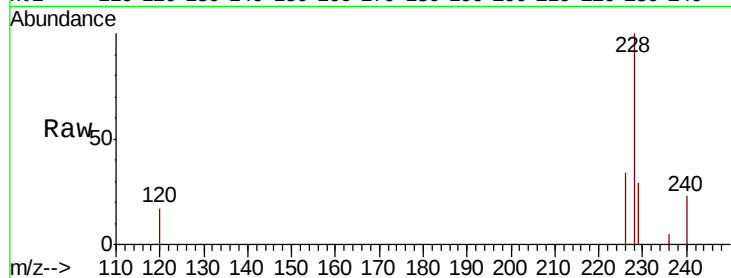
228 100

226 33.7 24.6 37.0

229 28.9 18.8 28.2#

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#21

Benzo(b)fluoranthene

Concen: 0.675 ng/ul m

RT: 23.00 min Scan# 5694

Delta R.T. 0.01 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

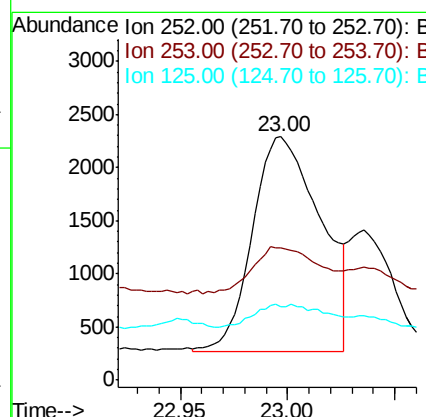
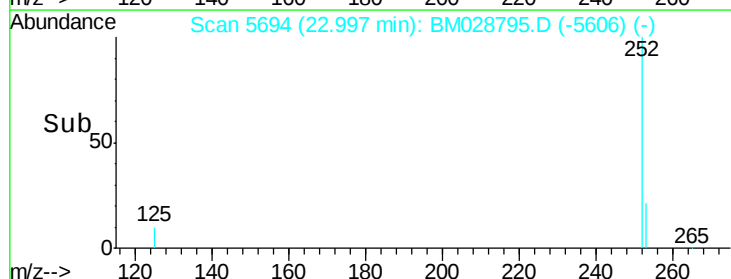
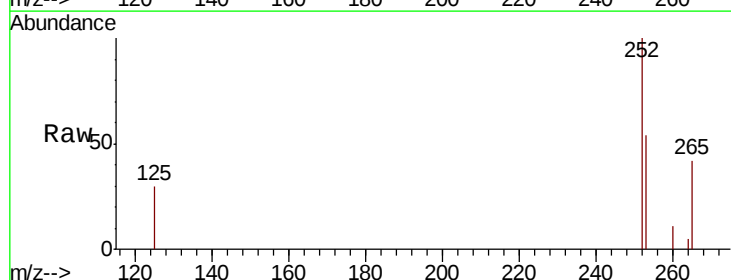
Tgt Ion:252 Resp: 4489

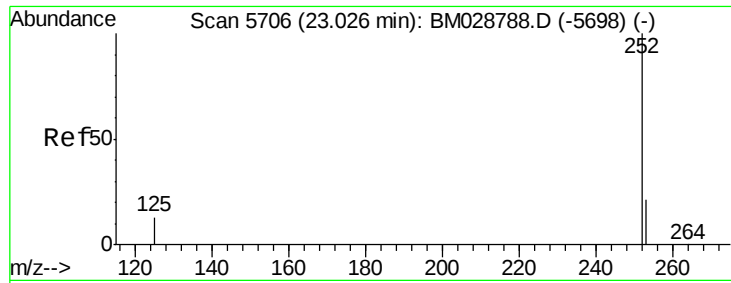
Ion Ratio Lower Upper

252 100

253 54.5 0.0 67.0

125 30.3 0.0 57.4





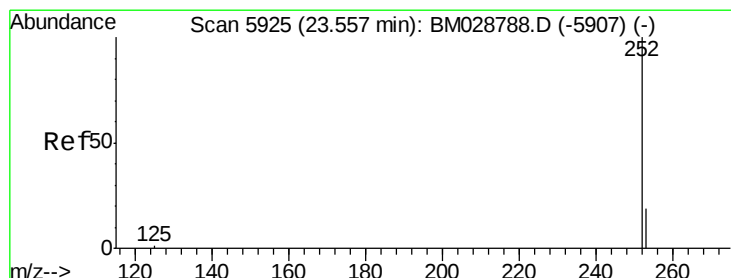
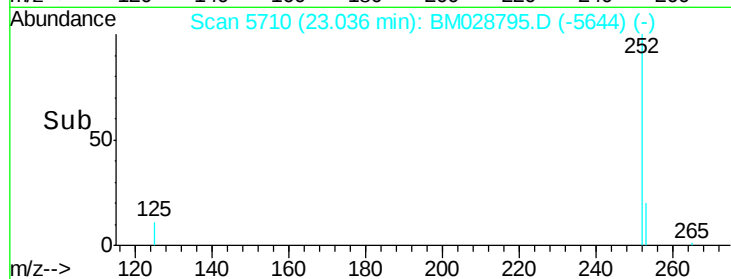
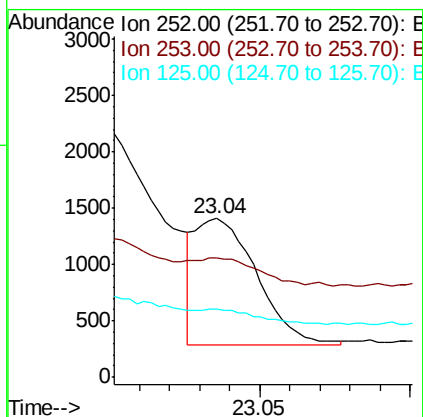
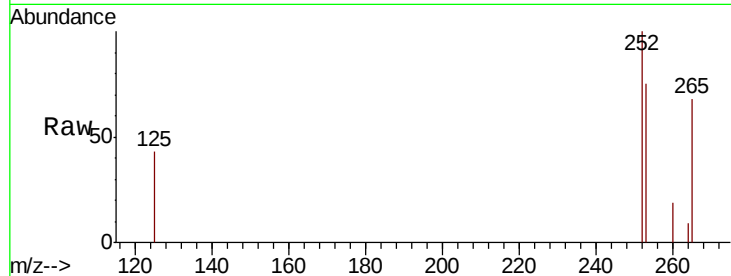
#22  
Benzo(k)fluoranthene  
Concen: 0.241 ng/ul m  
RT: 23.04 min Scan# 5710  
Delta R.T. 0.01 min  
Lab File: BM028795.D  
Acq: 18 Feb 2021 14:14

Instrument :  
BNA\_M  
ClientSampleId :  
DBGZ0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 75.4  | 26.3  | 39.5# |
| 125     | 43.1  | 22.9  | 34.3# |

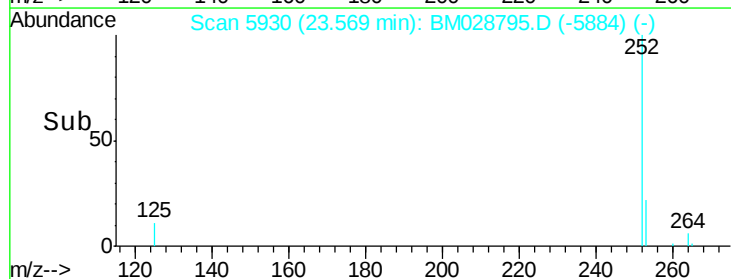
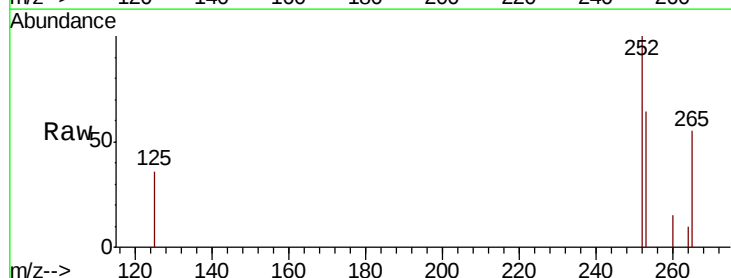
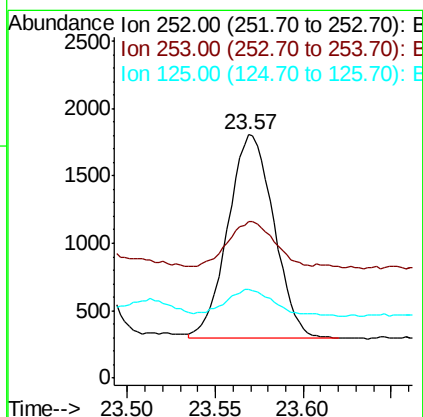
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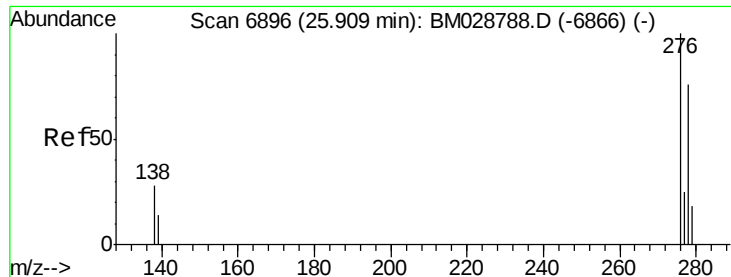
mohammad  
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#23  
Benzo(a)pyrene  
Concen: 0.463 ng/ul  
RT: 23.57 min Scan# 5930  
Delta R.T. 0.01 min  
Lab File: BM028795.D  
Acq: 18 Feb 2021 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 64.1  | 28.7  | 43.1# |
| 125     | 36.4  | 27.9  | 41.9  |





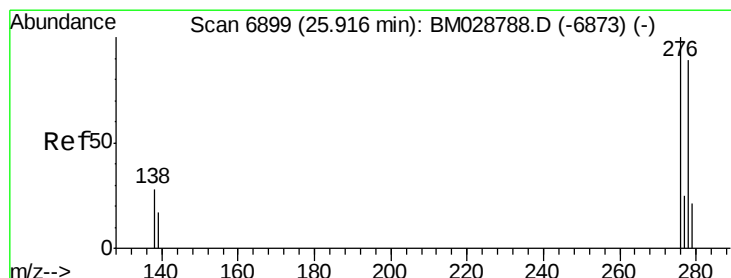
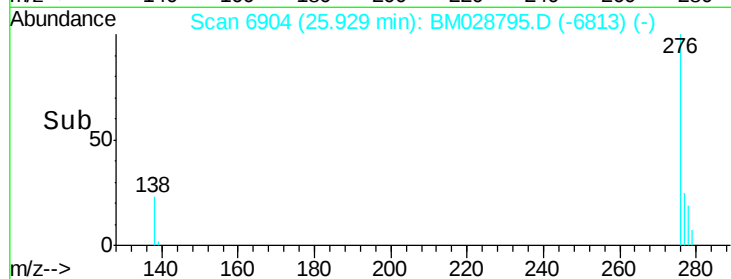
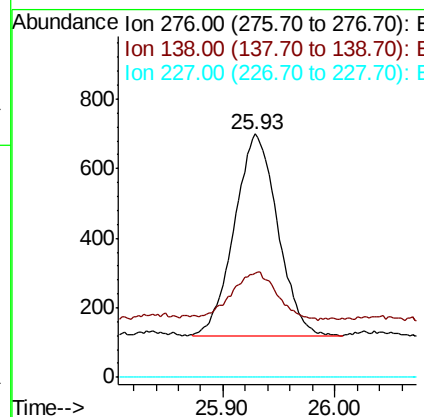
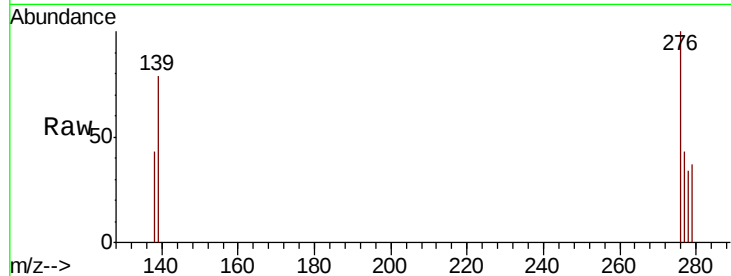
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.204 ng/u1  
RT: 25.93 min Scan# 6904  
Delta R.T. 0.02 min  
Lab File: BM028795.D  
Acq: 18 Feb 2021 14:14

Instrument :  
BNA\_M  
ClientSampleId :  
DBGZ0DL

Tot Ion: 276 Resp: 1570  
Ion Ratio Lower Upper  
276 100  
138 25.2 0.0 0.0#  
227 0.0 0.0 0.0

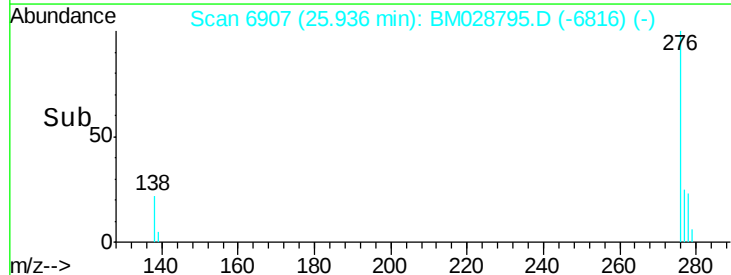
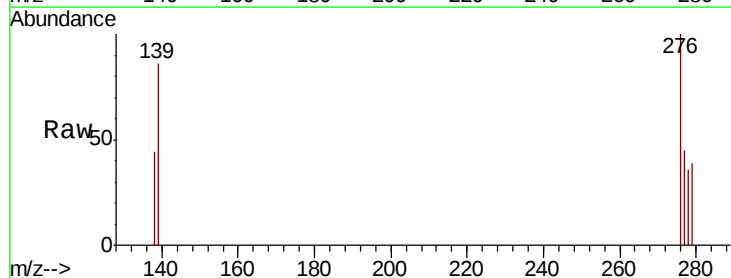
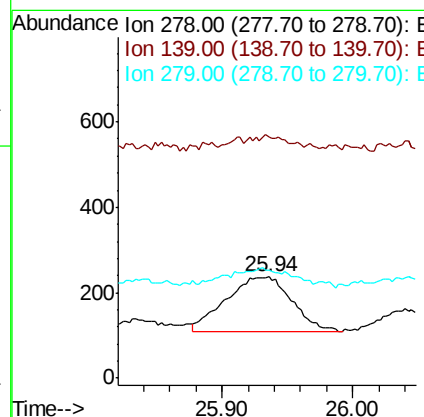
Manual Integrations  
APPROVED

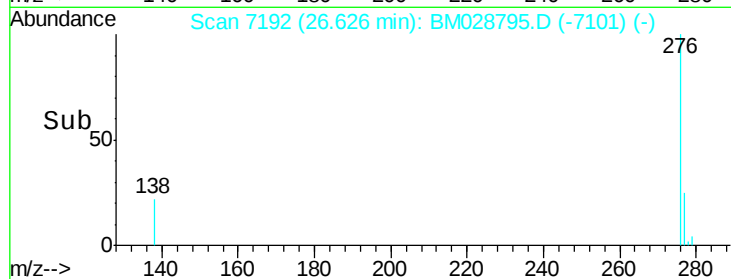
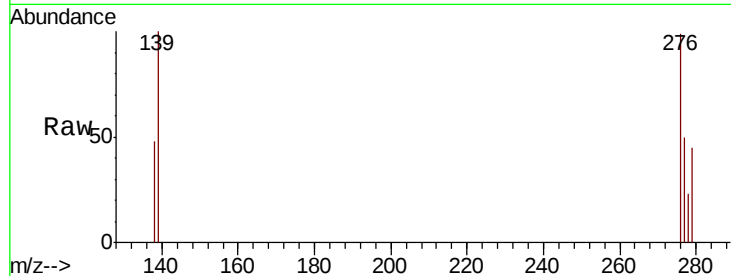
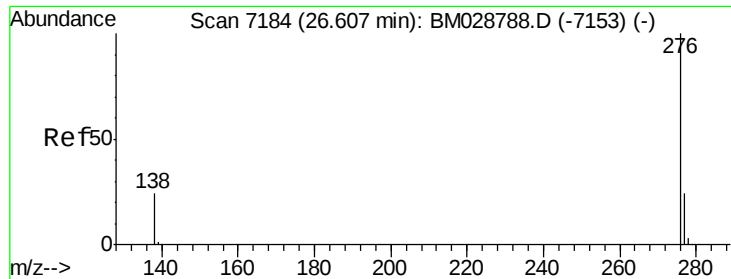
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.069 ng/u1  
RT: 25.94 min Scan# 6907  
Delta R.T. 0.02 min  
Lab File: BM028795.D  
Acq: 18 Feb 2021 14:14

Tgt Ion: 278 Resp: 447  
Ion Ratio Lower Upper  
278 100  
139 238.0 24.9 37.3#  
279 106.3 28.3 42.5#





#26

Benzo(a,h,i)perylene

Concen: 0.194 ng/ul

RT: 26.63 min Scan# 7192

Delta R.T. 0.02 min

Lab File: BM028795.D

Acq: 18 Feb 2021 14:14

Instrument :

BNA\_M

ClientSampleId :

DBGZ0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 48.5  | 25.4  | 38.2# |
| 277     | 50.8  | 25.3  | 37.9# |

Manual Integrations  
APPROVED

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2/19/2021 1:19:42 PM

