

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM053119\  
 Data File : BM020635.D  
 Acq On : 31 May 2019 17:46  
 Operator : JU/SJ  
 Sample : K3068-10DL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-6E(7-8)DL

Manual Integrations  
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 6/3/2019 8:48:53 AM

Quant Time: Jun 07 02:40:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 31 15:48:49 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.83  | 152  | 363538   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.63 | 136  | 1595795  | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.47 | 164  | 841084   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.22 | 188  | 1513399  | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.39 | 240  | 1110541  | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 23.69 | 264  | 1287128  | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 401798   | 19.44  | ng    | 0.00     |
| 7) Phenol-d6                | 6.99  | 99   | 602483   | 19.80  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.99  | 82   | 375017   | 12.18  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.96 | 330  | 149831   | 14.38  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.09 | 172  | 790285   | 12.49  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.84 | 244  | 695754   | 10.48  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 52) Acenaphthene            | 14.53 | 154  | 196774   | 3.733  | ng    | 99       |
| 58) Fluorene                | 15.52 | 166  | 234515   | 3.483  | ng    | 96       |
| 71) Phenanthrene            | 17.26 | 178  | 3614093  | 42.130 | ng    | 100      |
| 72) Anthracene              | 17.34 | 178  | 643402   | 7.494  | ng    | 99       |
| 73) Carbazole               | 17.62 | 167  | 268546   | 3.447  | ng    | 99       |
| 75) Fluoranthene            | 19.27 | 202  | 4387749  | 45.994 | ng    | 99       |
| 78) Pyrene                  | 19.63 | 202  | 3985966  | 46.772 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.37 | 228  | 1920091  | 24.828 | ng    | 99       |
| 83) Chrysene                | 21.43 | 228  | 1746648  | 23.760 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 26.01 | 276  | 1089960  | 14.493 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.00 | 252  | 2181796  | 25.646 | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 23.04 | 252  | 735537m  | 8.847  | ng    |          |
| 90) Benzo(a)pyrene          | 23.59 | 252  | 1654995  | 21.448 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 26.02 | 278  | 278639   | 3.722  | ng    | # 91     |
| 92) Benzo(a,h,i)perylene    | 26.73 | 276  | 1063655  | 15.297 | ng    | 99       |

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

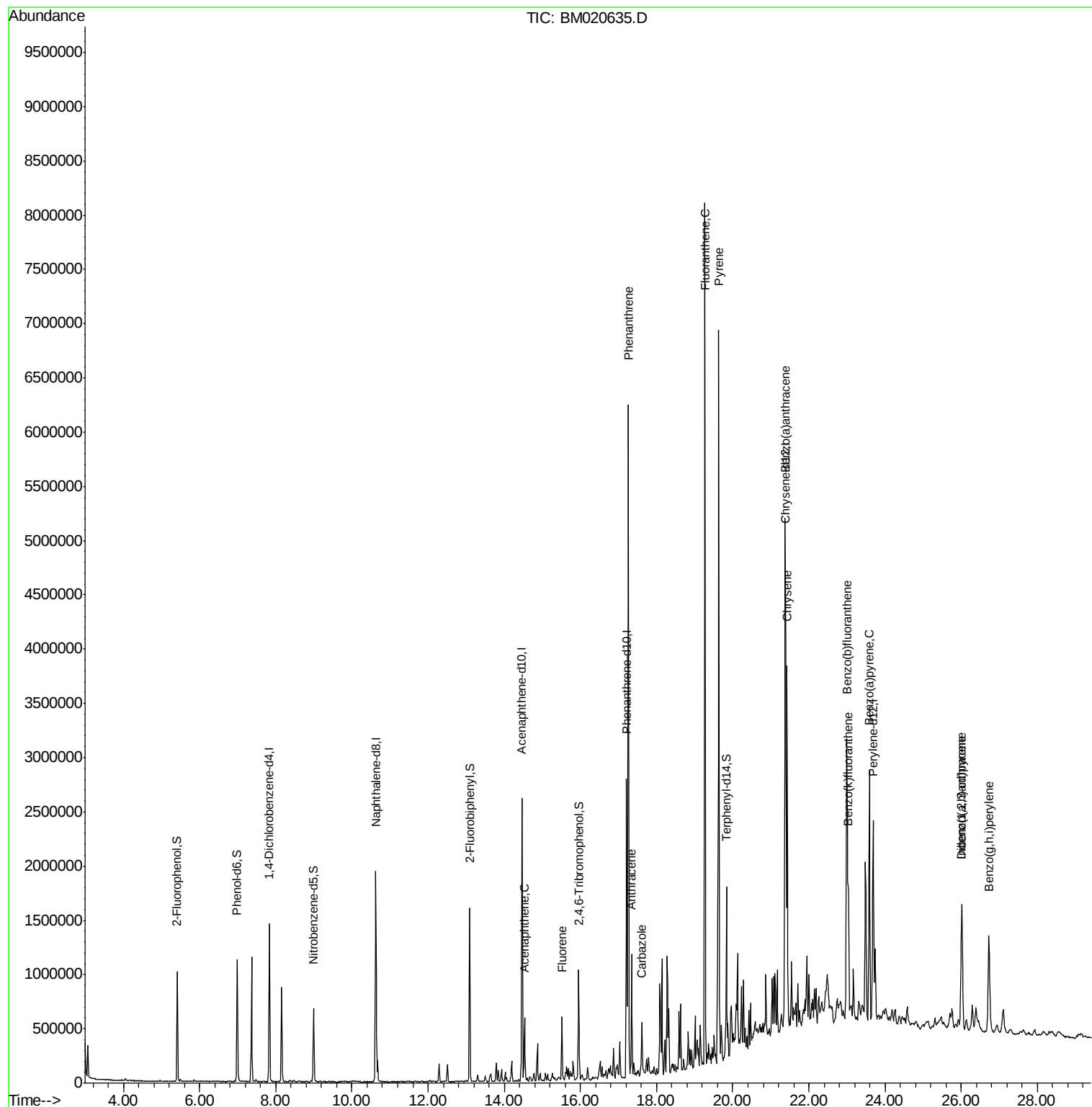
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM053119\  
Data File : BM020635.D  
Acq On : 31 May 2019 17:46  
Operator : JU/SJ  
Sample : K3068-10DL 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

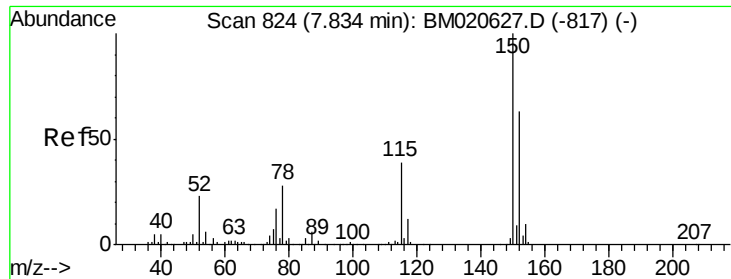
Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

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Quant Time: Jun 07 02:40:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 31 15:48:49 2019  
Response via : Initial Calibration





#1

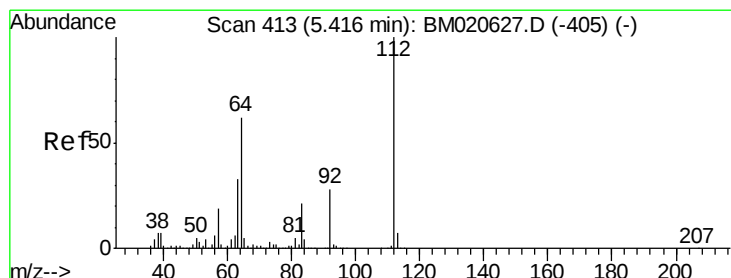
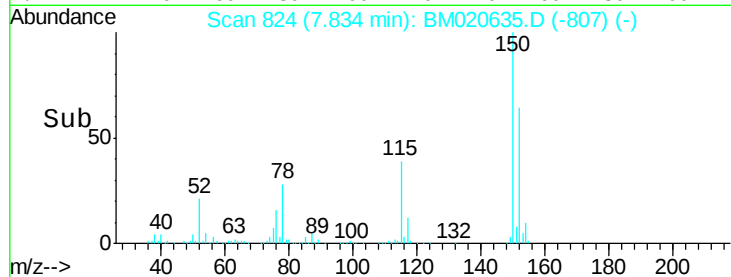
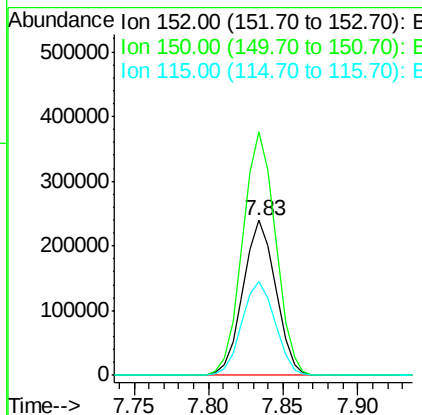
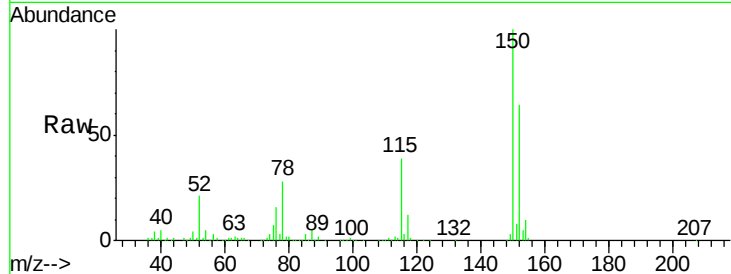
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.83 min Scan# 824  
Delta R.T. 0.00 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampled :  
B-6E(7-8)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 126.0 | 189.0 |
| 115     | 60.9  | 49.6  | 74.4  |

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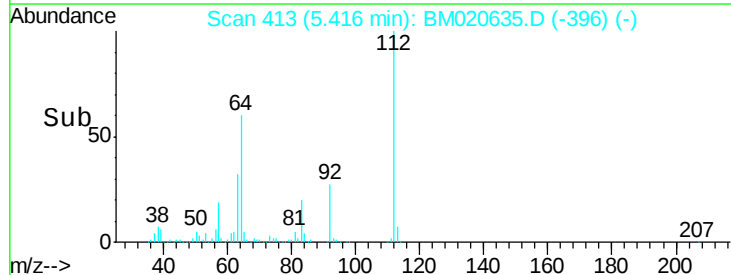
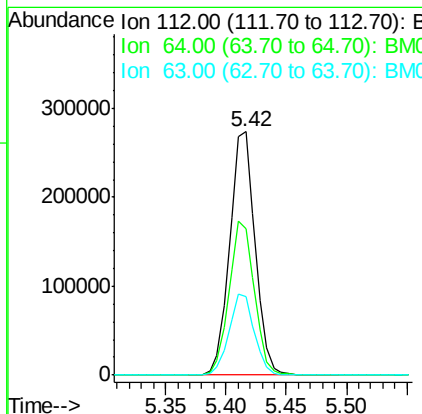
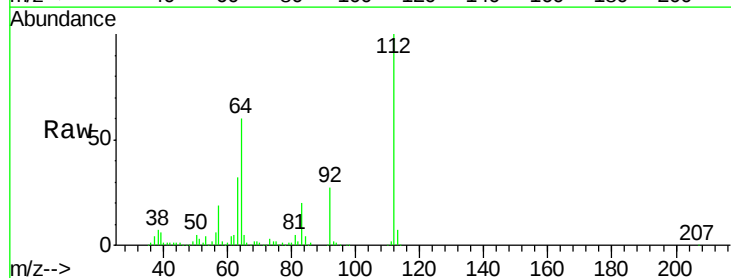
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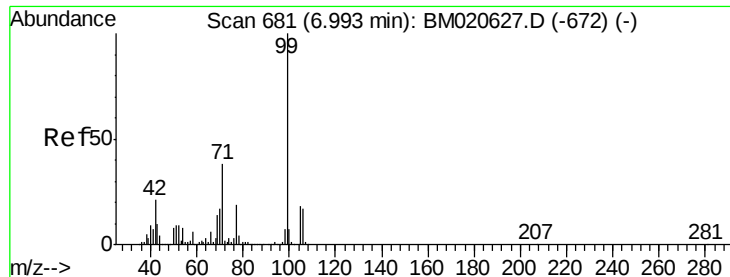


#5

2-Fluorophenol  
Concen: 19.442 ng  
RT: 5.42 min Scan# 413  
Delta R.T. 0.00 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.1  | 49.7  | 74.5  |
| 63      | 32.4  | 26.4  | 39.6  |





#7

Phenol-d6

Concen: 19.799 ng

RT: 6.99 min Scan# 680

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA\_M

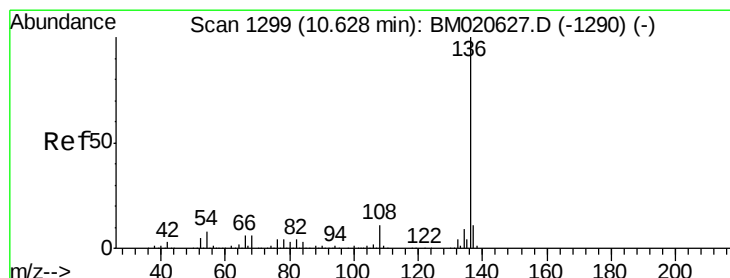
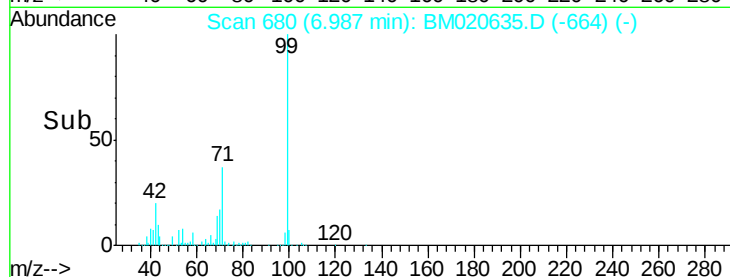
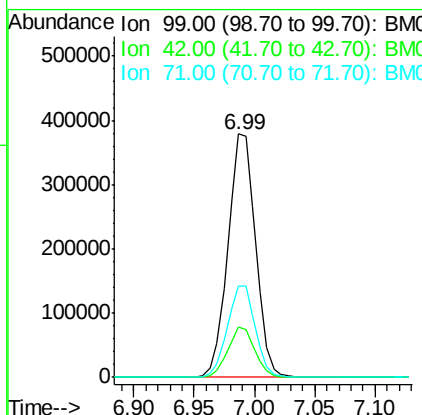
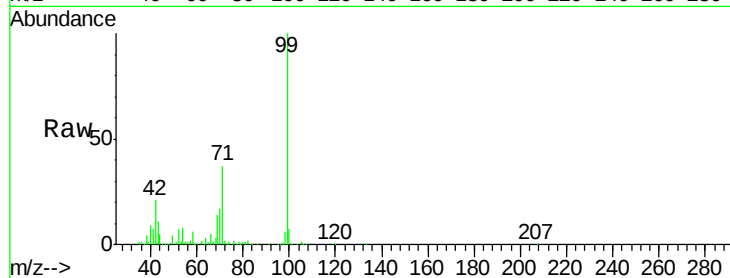
ClientSampleId :

B-6E(7-8)DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 602483 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 20.6  | 16.5  | 24.7   |
| 71        | 37.4  | 30.7  | 46.1   |

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#21

Naphthalene-d8

Concen: 20.000 ng

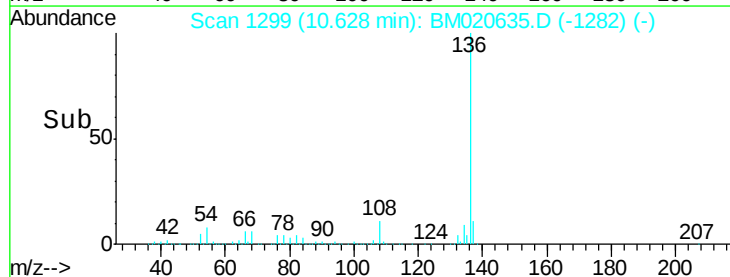
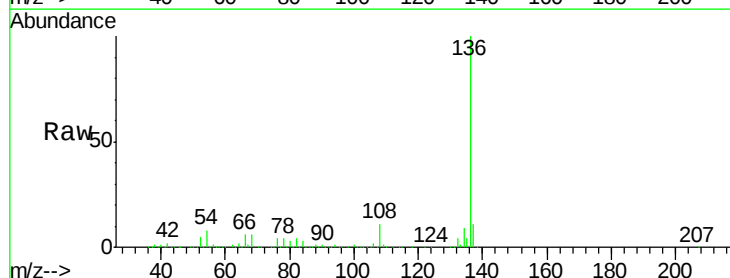
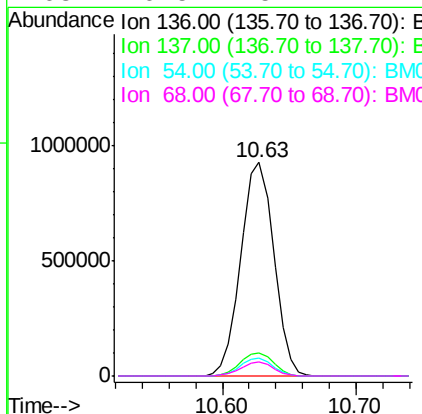
RT: 10.63 min Scan# 1299

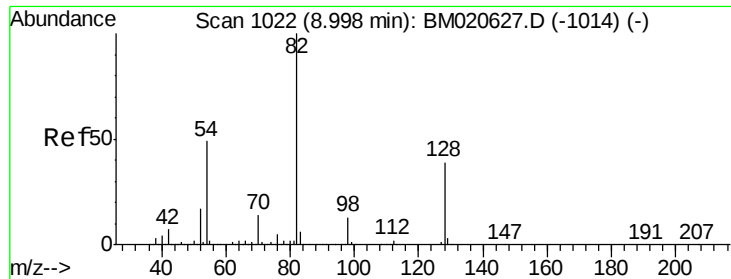
Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 136   | Resp: | 1595795 |
| Ion Ratio | Lower | Upper |         |
| 136       | 100   |       |         |
| 137       | 10.8  | 8.8   | 13.2    |
| 54        | 8.3   | 6.6   | 10.0    |
| 68        | 6.5   | 5.1   | 7.7     |





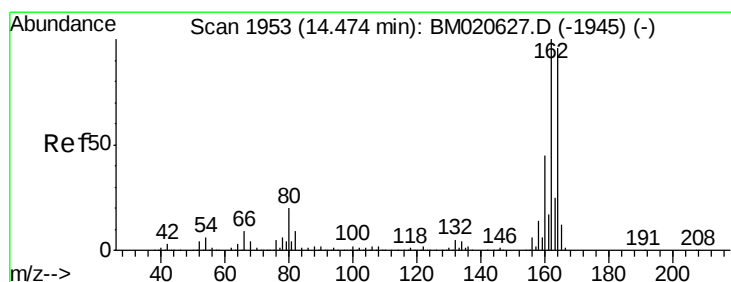
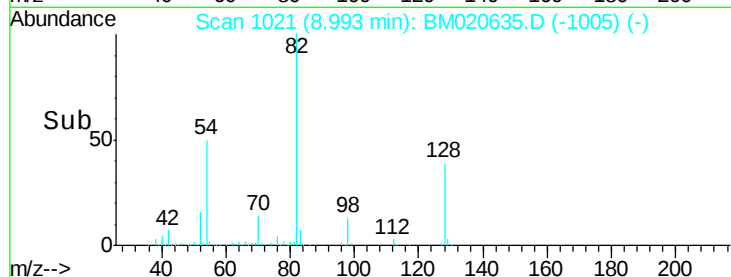
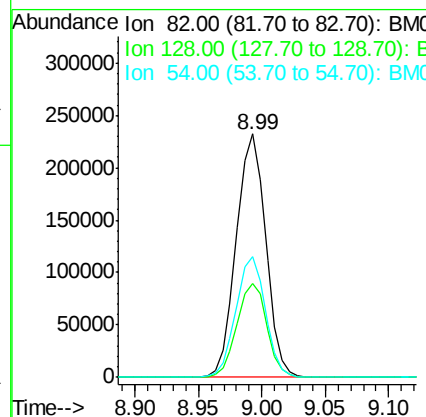
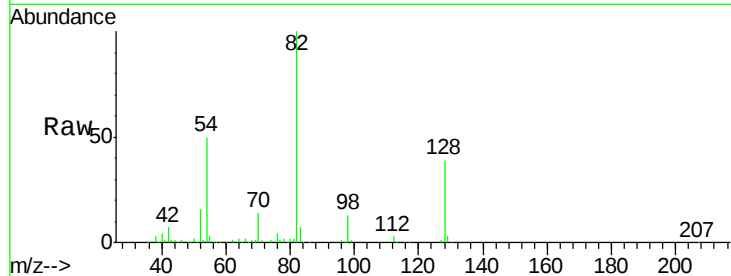
#23  
Nitrobenzene-d5  
Concen: 12.176 ng  
RT: 8.99 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 375017 |       |       |
| 128     | 38.7  |        | 31.5  | 47.3  |
| 54      | 49.6  |        | 39.4  | 59.0  |

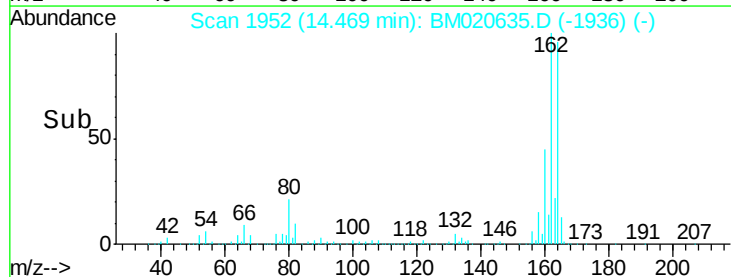
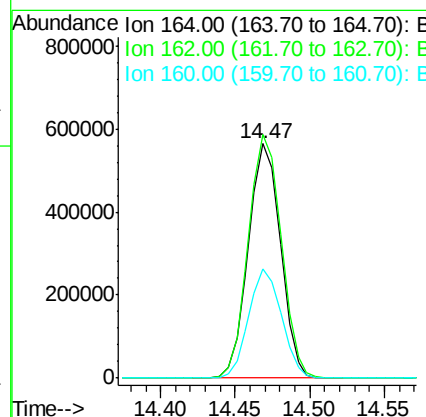
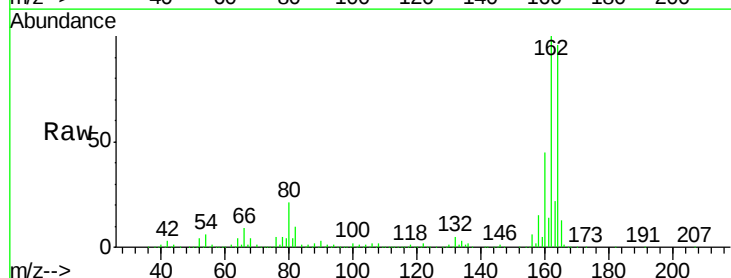
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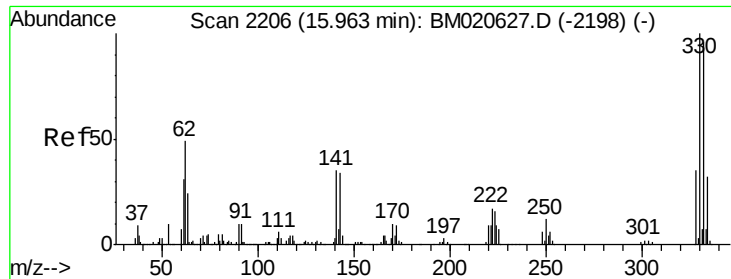
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.47 min Scan# 1952  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 841084 |       |       |
| 162     | 103.8 |        | 83.2  | 124.8 |
| 160     | 46.8  |        | 37.5  | 56.3  |





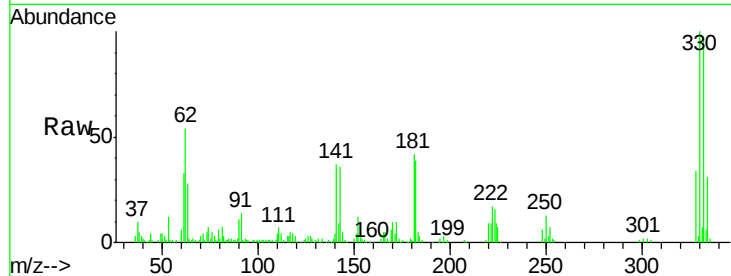
#42  
 2,4,6-Tribromophenol  
 Concen: 14.378 ng  
 RT: 15.96 min Scan# 2205  
 Delta R.T. -0.01 min  
 Lab File: BM020635.D  
 Acq: 31 May 2019 17:46

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-6E(7-8)DL

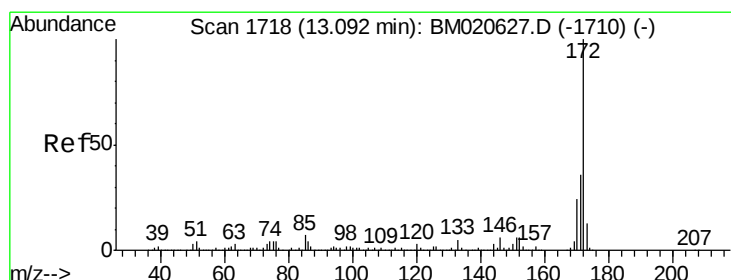
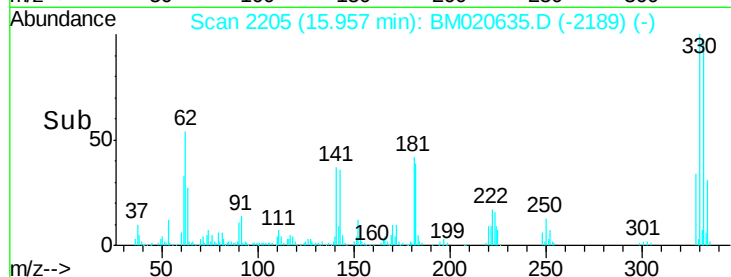
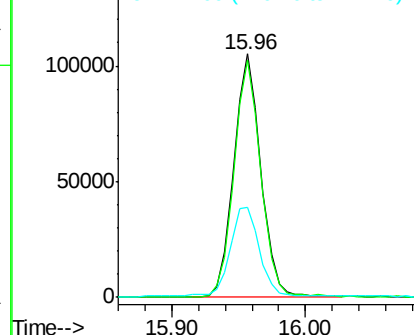
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 149831 |       |       |
| 332     | 96.6  | 77.4   | 116.0 |       |
| 141     | 39.6  | 30.4   | 45.6  |       |

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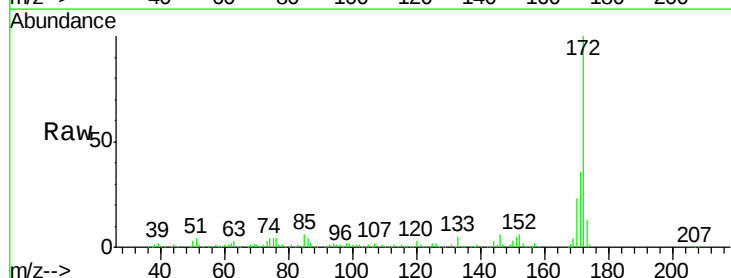


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

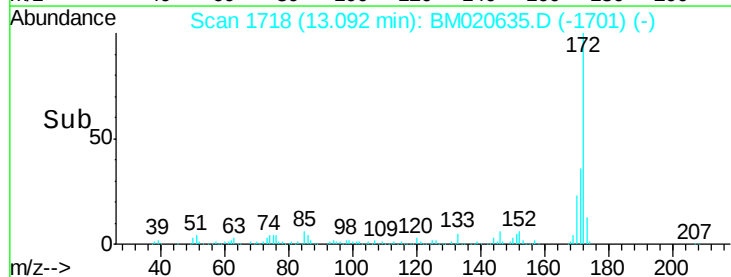
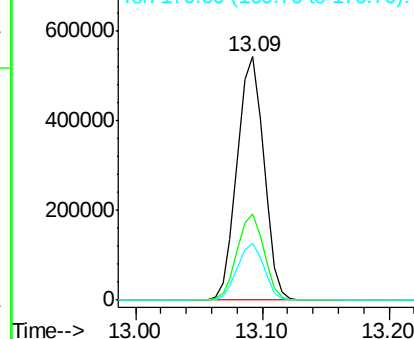


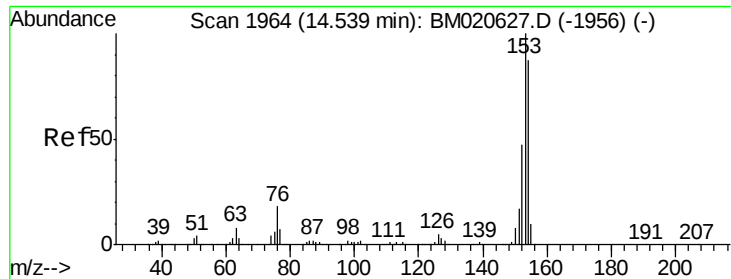
#45  
 2-Fluorobiphenyl  
 Concen: 12.492 ng  
 RT: 13.09 min Scan# 1718  
 Delta R.T. 0.00 min  
 Lab File: BM020635.D  
 Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 790285 |       |       |
| 171     | 35.5  | 28.6   | 43.0  |       |
| 170     | 23.3  | 18.9   | 28.3  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#52

Acenaphthene

Concen: 3.733 ng

RT: 14.53 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA\_M

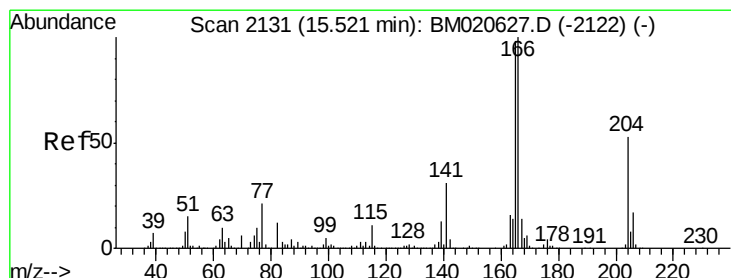
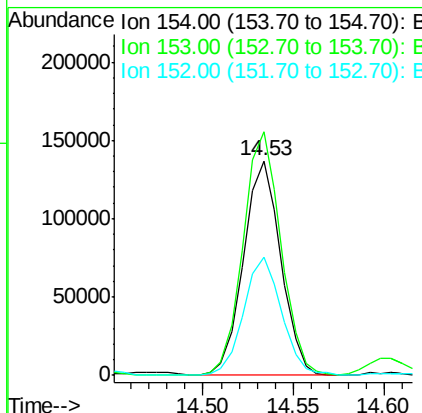
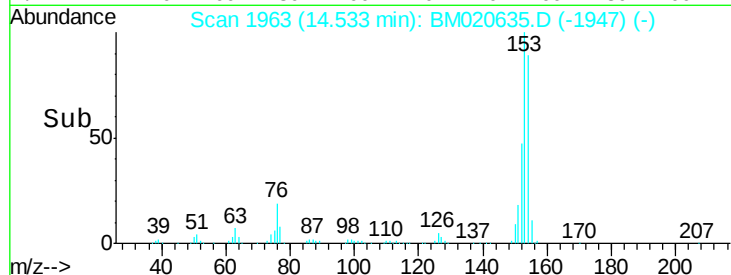
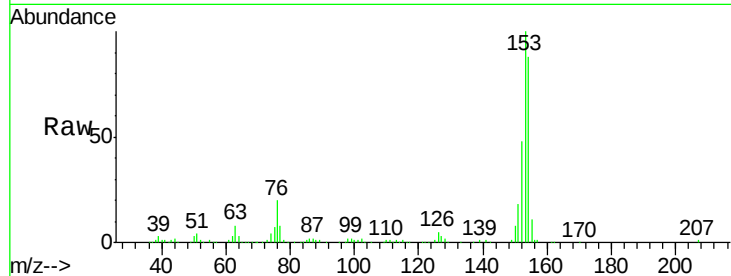
ClientSampleId :

B-6E(7-8)DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 196774 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 113.6 | 92.4  | 138.6  |
| 152       | 54.8  | 43.4  | 65.0   |

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#58

Fluorene

Concen: 3.483 ng

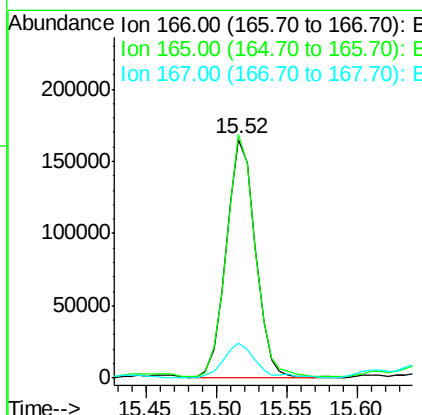
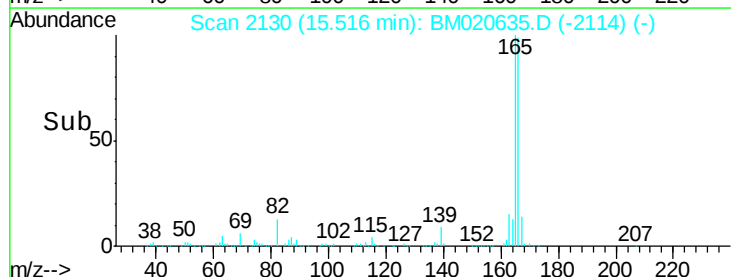
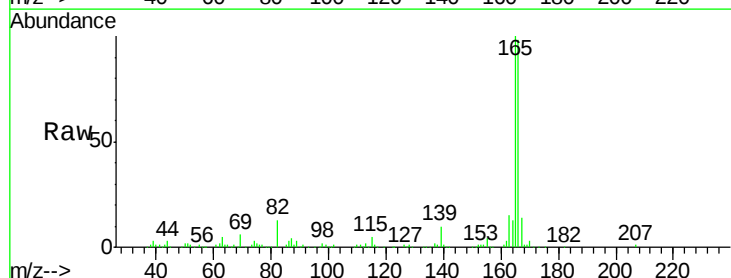
RT: 15.52 min Scan# 2130

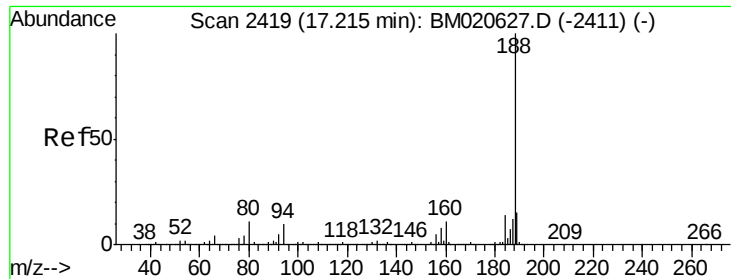
Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 234515 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 101.9 | 78.6  | 117.8  |
| 167       | 14.5  | 11.0  | 16.4   |





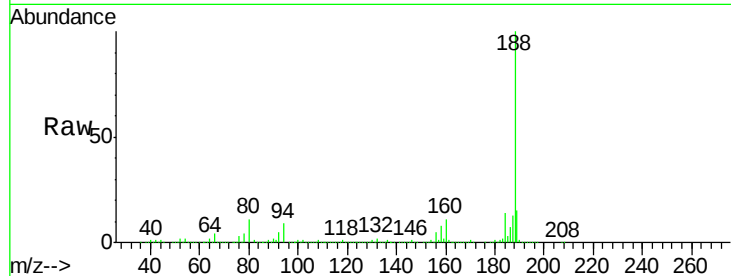
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.22 min Scan# 2419  
Delta R.T. 0.00 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampled :  
B-6E(7-8)DL

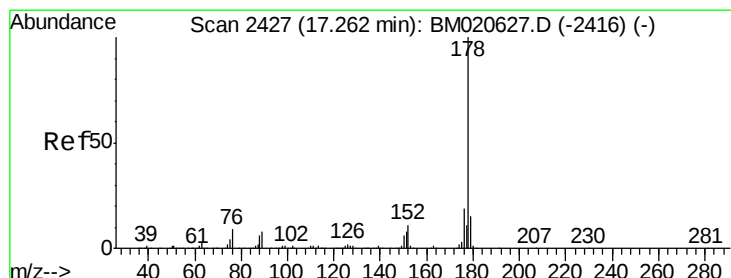
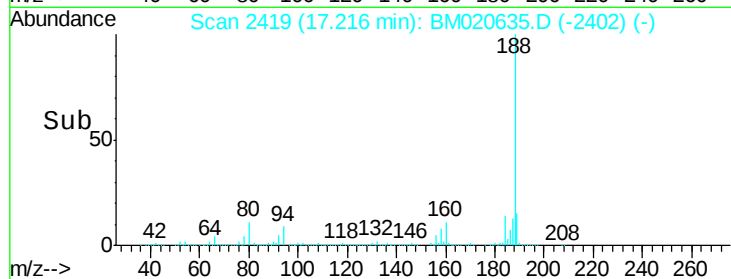
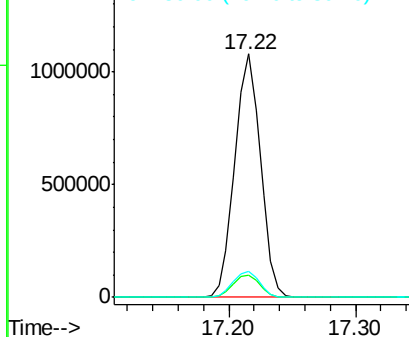
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.3   | 7.8   | 11.8  |
| 80      | 10.7  | 9.0   | 13.6  |

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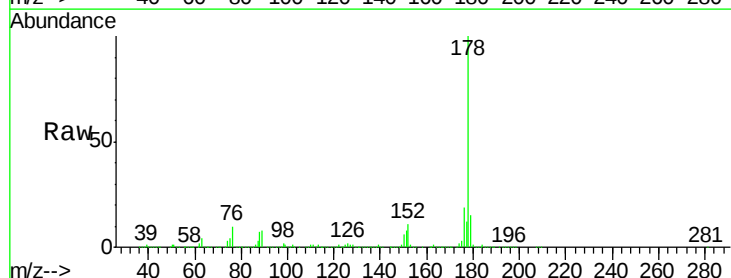


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BM  
Ion 80.00 (79.70 to 80.70): BM

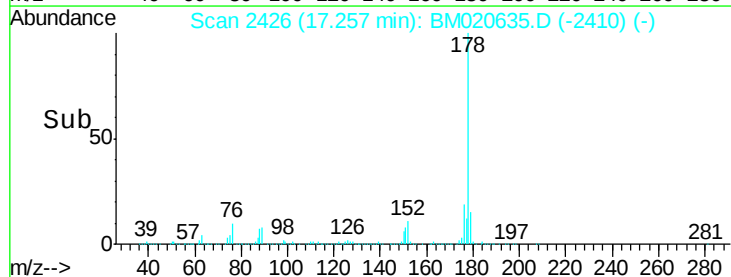
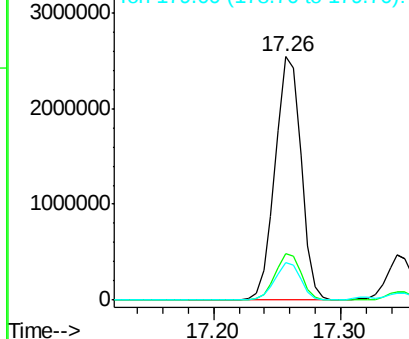


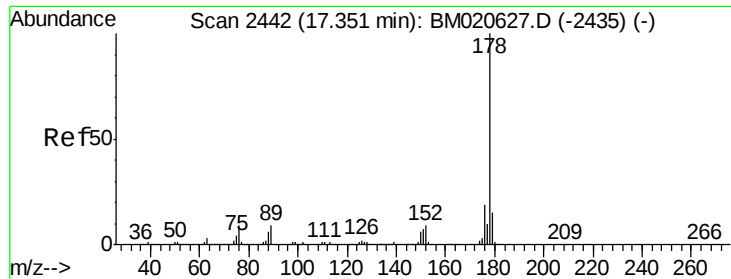
#71  
Phenanthrene  
Concen: 42.130 ng  
RT: 17.26 min Scan# 2426  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.5  | 23.3  |
| 179     | 15.4  | 12.2  | 18.4  |



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.494 ng

RT: 17.34 min Scan# 2441

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA\_M

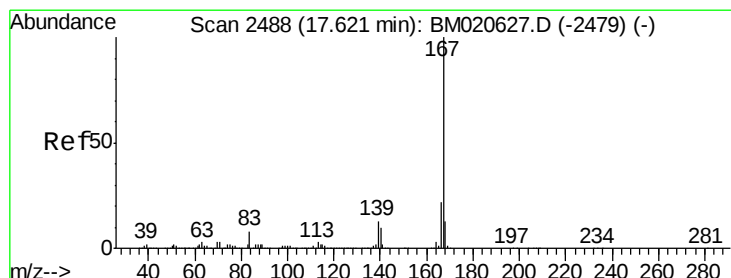
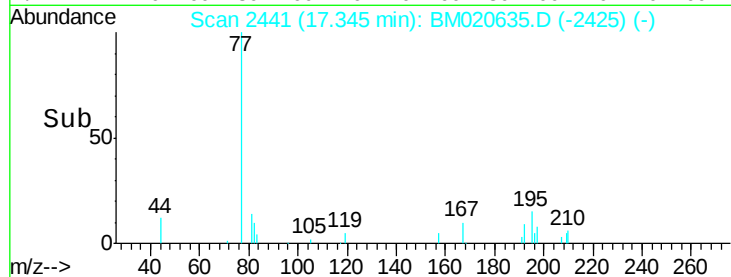
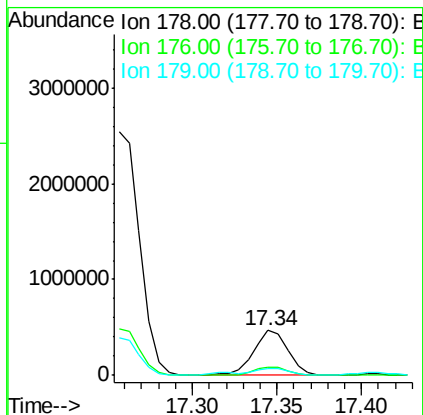
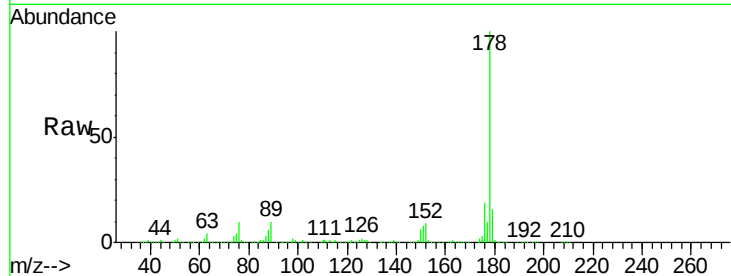
ClientSampleId :

B-6E(7-8)DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 643402 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.4  | 15.1  | 22.7   |
| 179       | 16.1  | 12.3  | 18.5   |

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#73

Carbazole

Concen: 3.447 ng

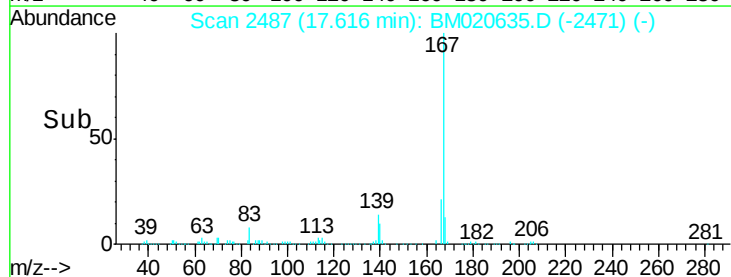
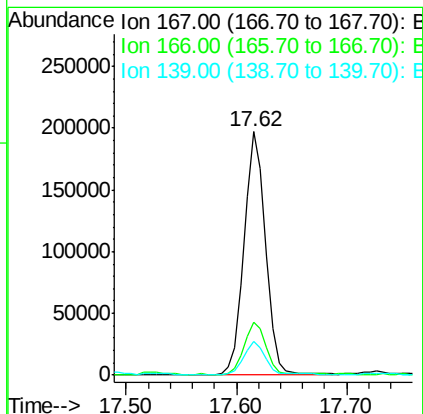
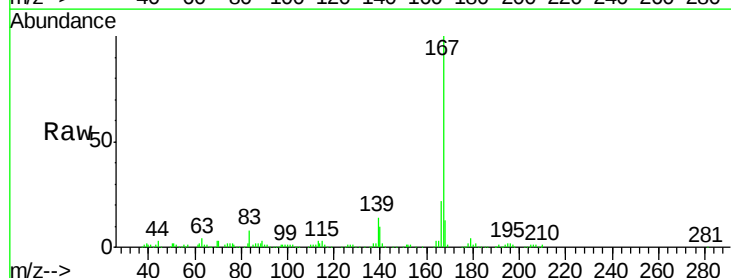
RT: 17.62 min Scan# 2487

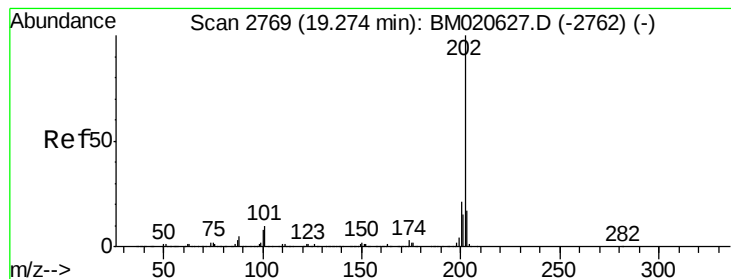
Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 268546 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.6  | 17.5  | 26.3   |
| 139       | 14.1  | 10.6  | 15.8   |





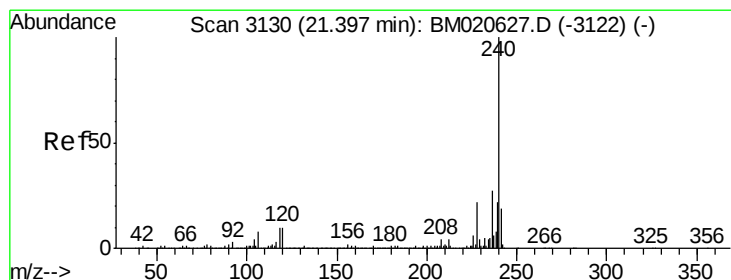
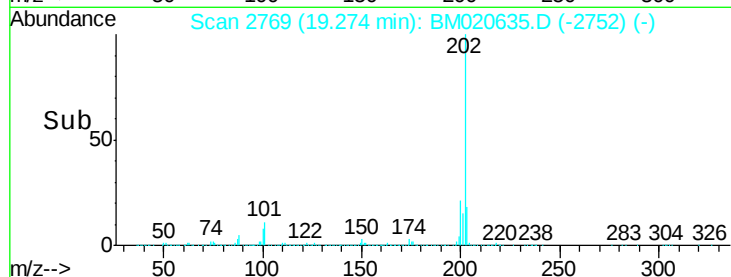
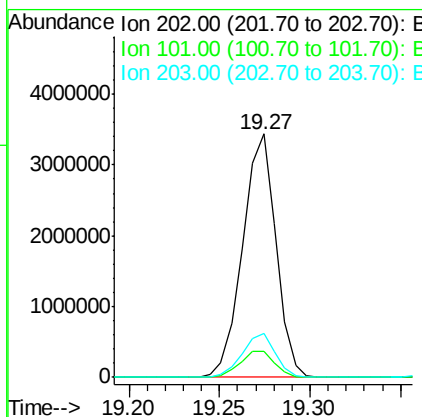
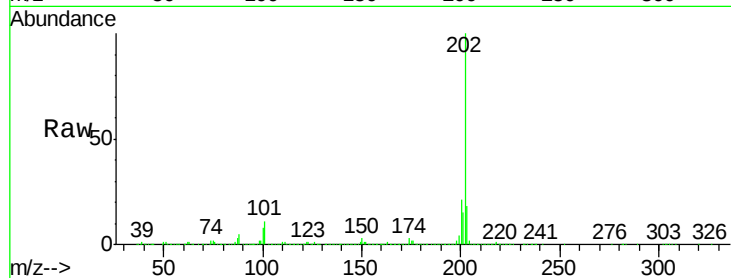
#75  
 Fluoranthene  
 Concen: 45.994 ng  
 RT: 19.27 min Scan# 2769  
 Delta R.T. 0.00 min  
 Lab File: BM020635.D  
 Acq: 31 May 2019 17:46

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-6E(7-8)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 0.0   | 30.4  |
| 203     | 17.8  | 0.0   | 37.3  |

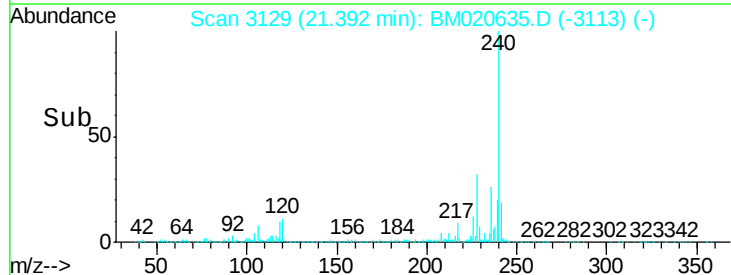
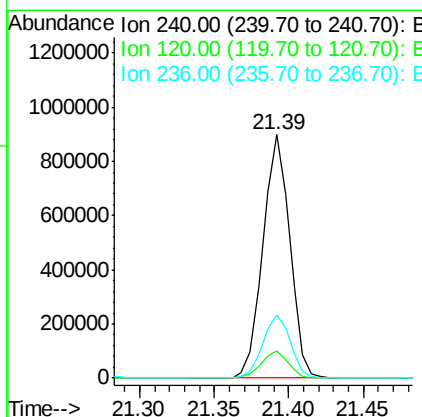
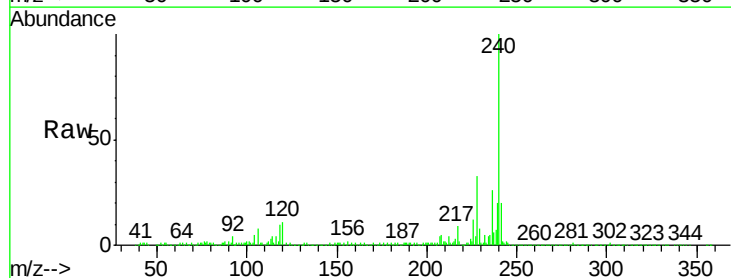
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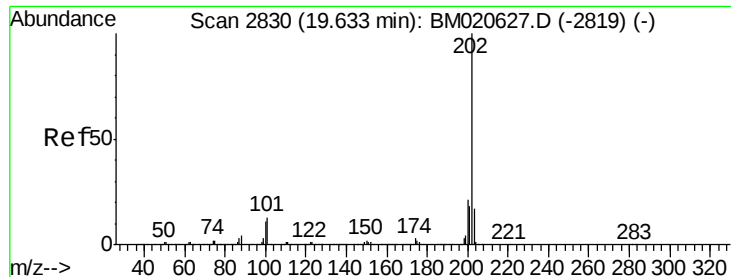
mohammad  
 6/3/2019 8:48:53 AM



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.39 min Scan# 3129  
 Delta R.T. -0.01 min  
 Lab File: BM020635.D  
 Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.1  | 8.2   | 12.2  |
| 236     | 25.8  | 21.2  | 31.8  |





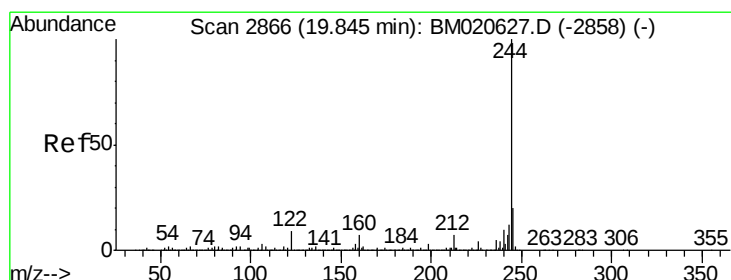
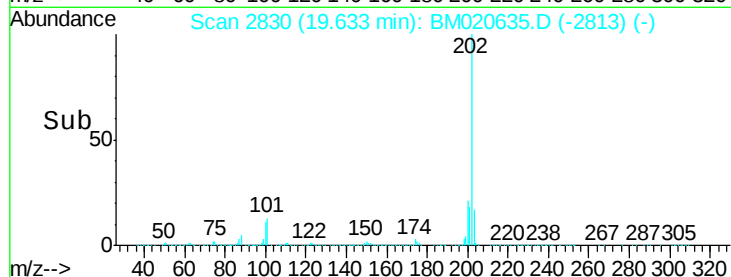
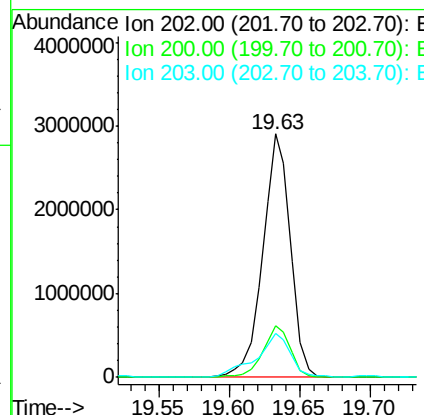
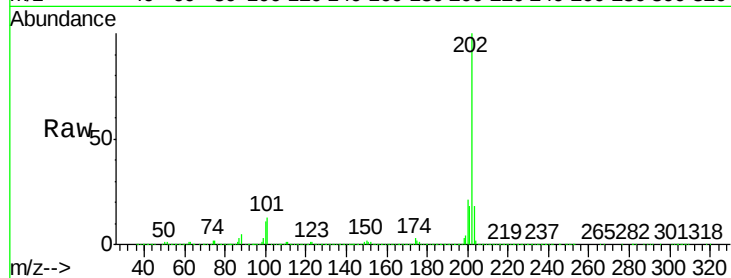
#78  
Pvrene  
Concen: 46.772 ng  
RT: 19.63 min Scan# 2830  
Delta R.T. 0.00 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 16.8  | 25.2  |
| 203     | 17.8  | 13.9  | 20.9  |

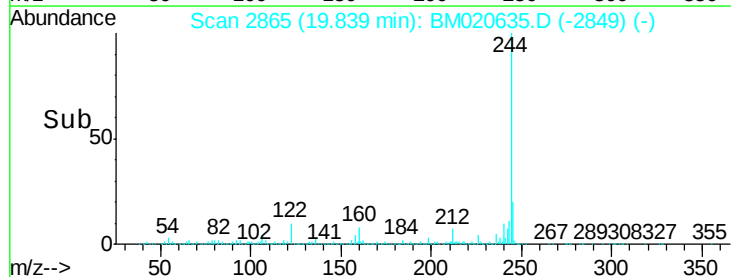
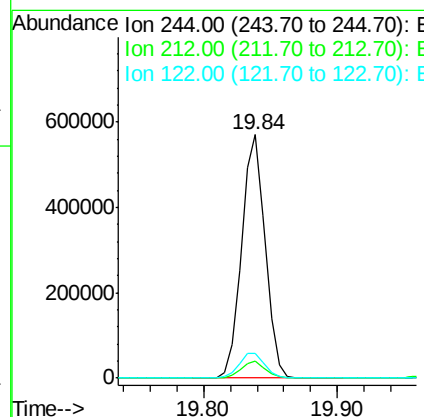
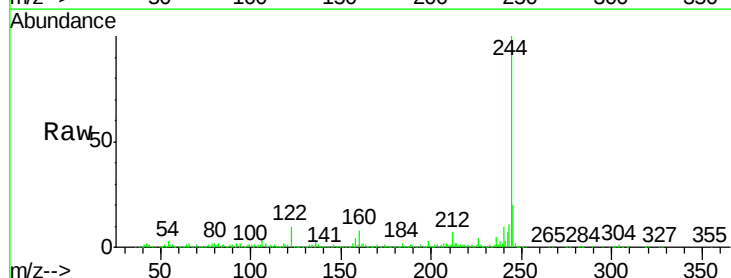
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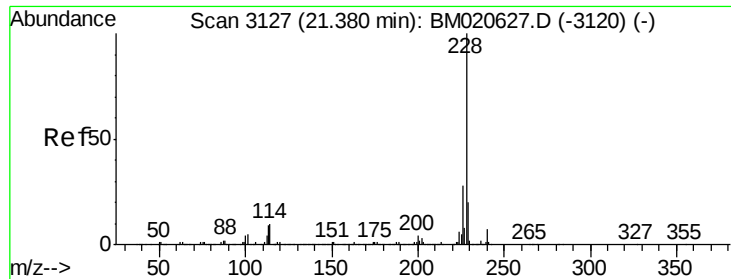
mohammad  
6/3/2019 8:48:53 AM



#79  
Terphenyl-d14  
Concen: 10.479 ng  
RT: 19.84 min Scan# 2865  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.7   | 8.5   |
| 122     | 10.0  | 7.2   | 10.8  |





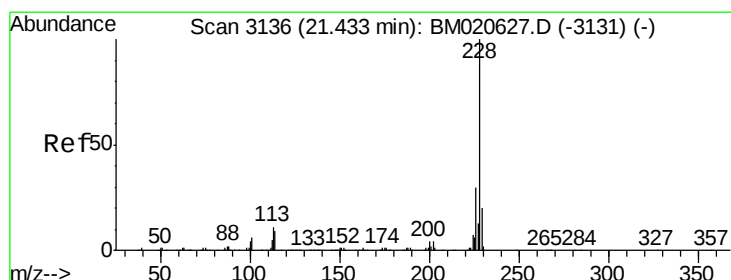
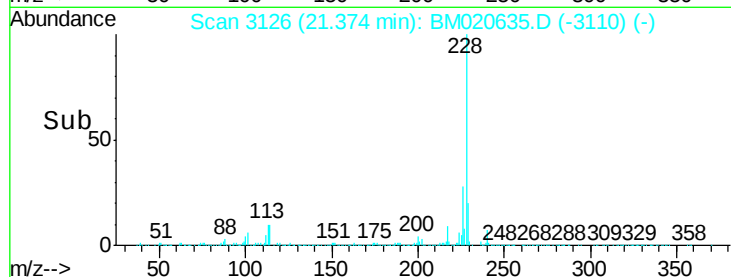
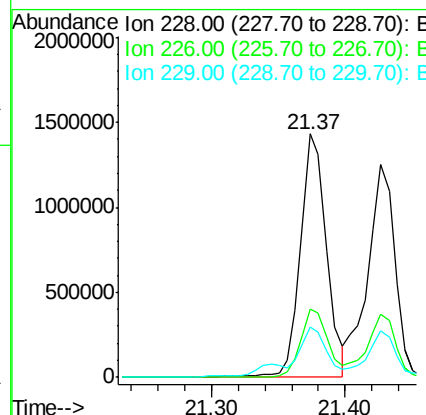
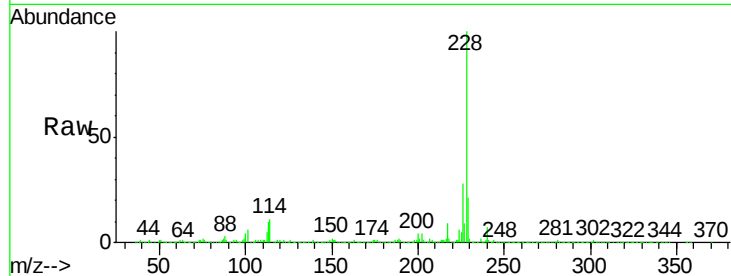
#81  
Benzo(a)anthracene  
Concen: 24.828 ng  
RT: 21.37 min Scan# 3126  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.1  | 22.3  | 33.5  |
| 229     | 20.5  | 15.9  | 23.9  |

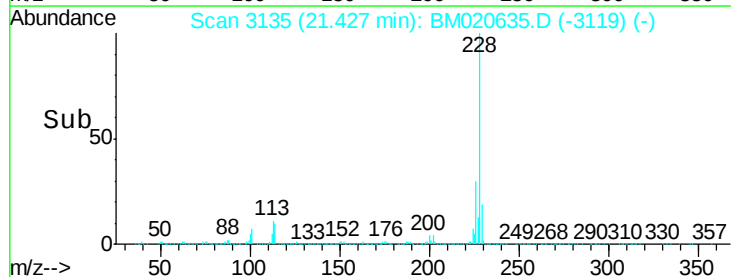
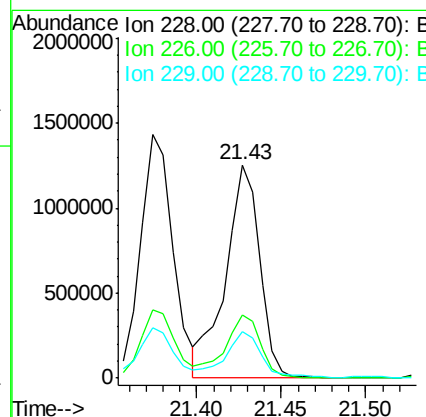
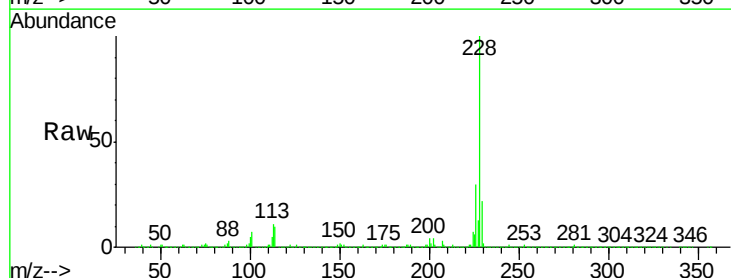
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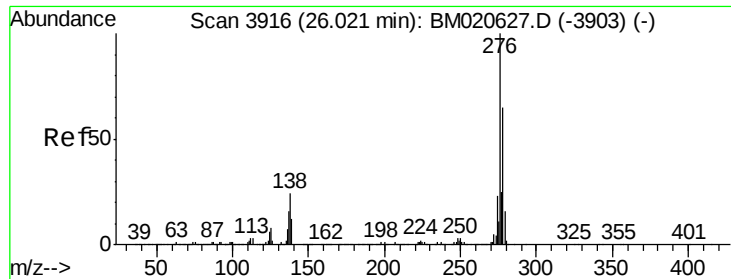
mohammad  
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#83  
Chrysene  
Concen: 23.760 ng  
RT: 21.43 min Scan# 3135  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 24.2  | 36.2  |
| 229     | 21.7  | 15.8  | 23.6  |





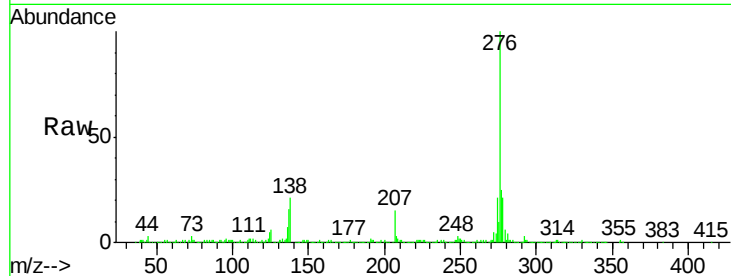
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 14.493 ng  
RT: 26.01 min Scan# 3915  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

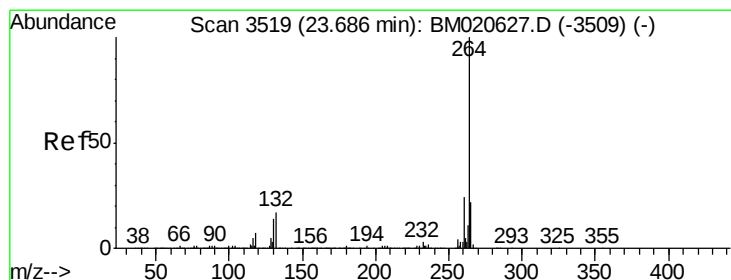
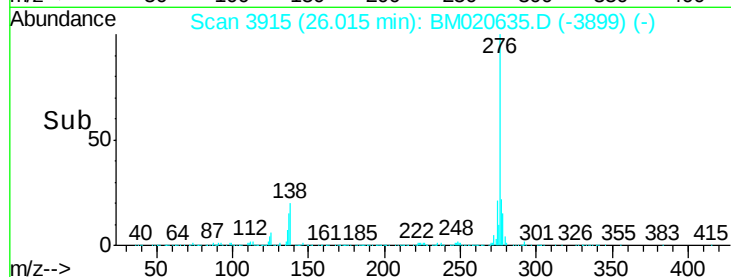
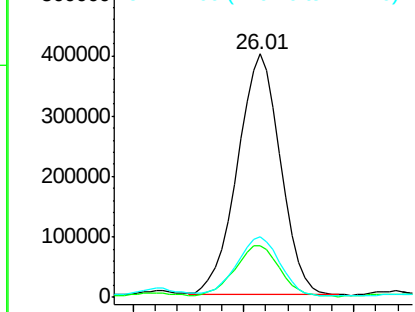
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.2  | 19.8  | 29.8  |
| 277     | 25.1  | 20.2  | 30.4  |

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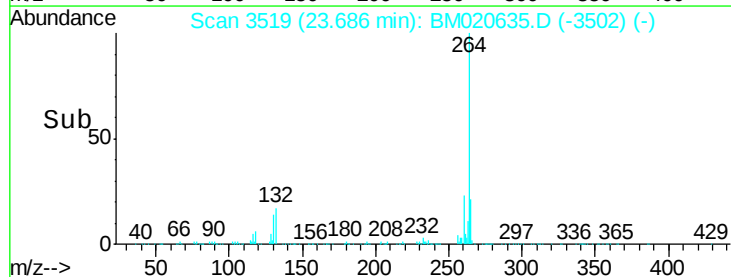
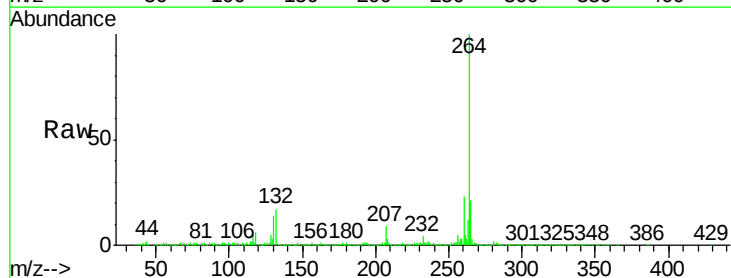
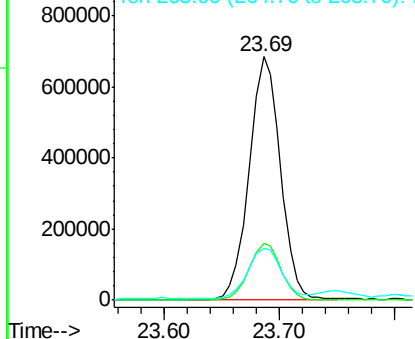
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

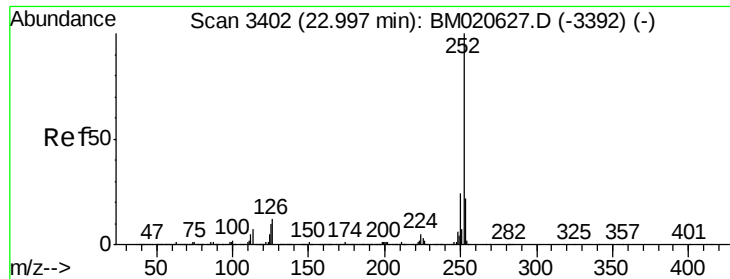


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.69 min Scan# 3519  
Delta R.T. 0.00 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 21.4  | 17.6  | 26.4  |

Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





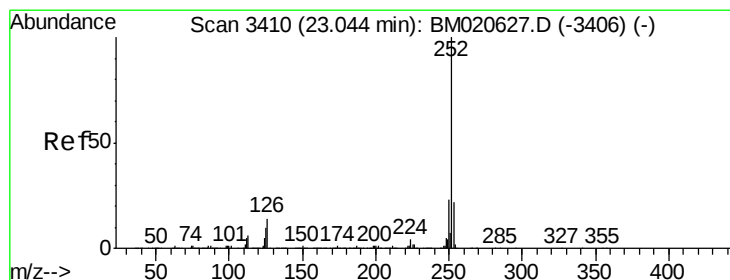
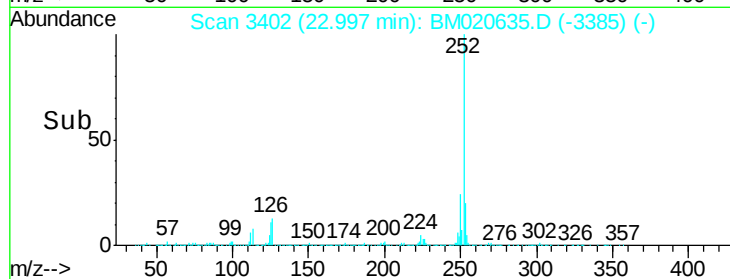
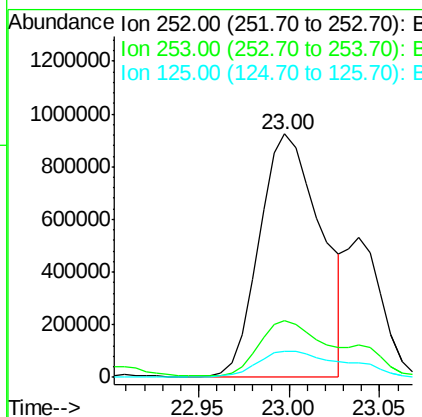
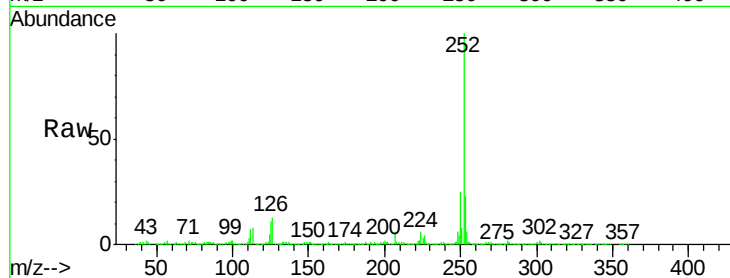
#88  
Benzo(b)fluoranthene  
Concen: 25.646 ng  
RT: 23.00 min Scan# 3402  
Delta R.T. 0.00 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.4  | 26.2  |
| 125     | 10.9  | 7.8   | 11.8  |

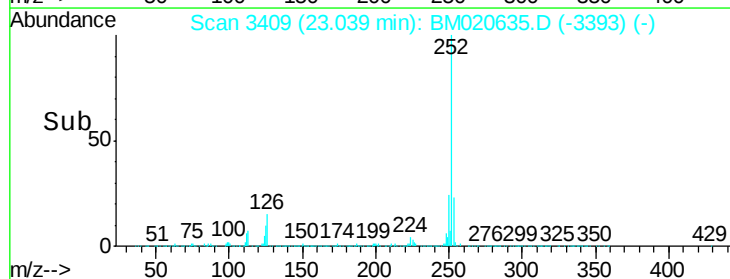
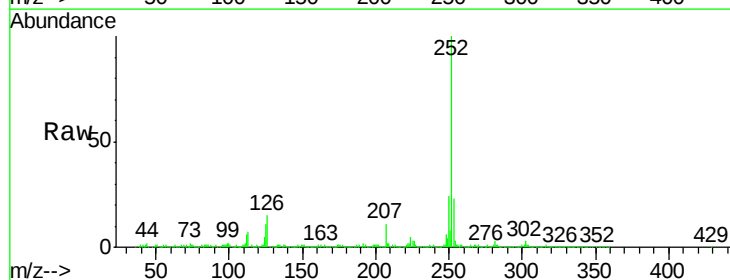
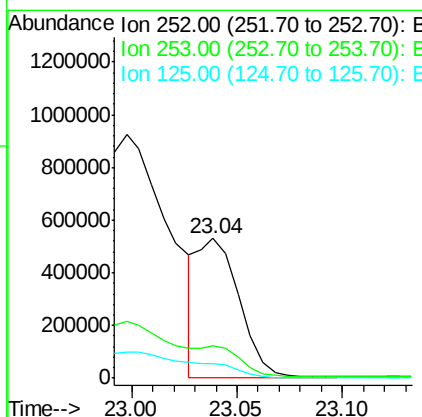
Manual Integrations  
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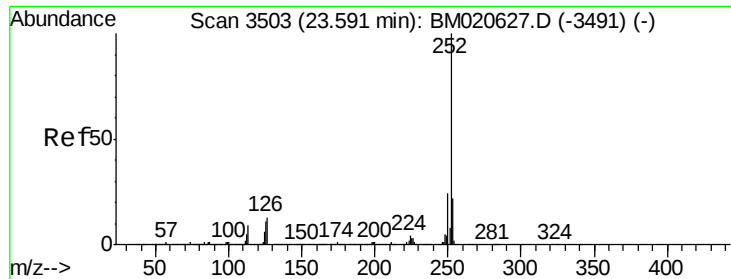
mohammad  
6/3/2019 8:48:53 AM



#89  
Benzo(k)fluoranthene  
Concen: 8.847 ng m  
RT: 23.04 min Scan# 3409  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.4  | 26.2  |
| 125     | 10.6  | 7.8   | 11.8  |





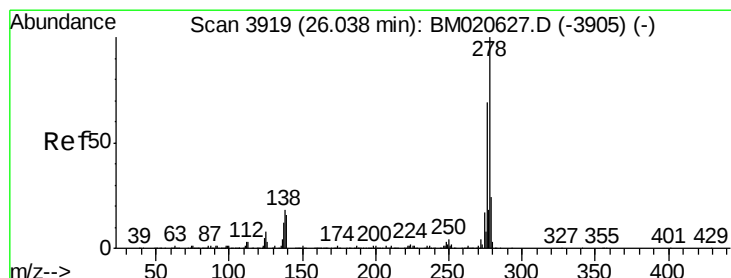
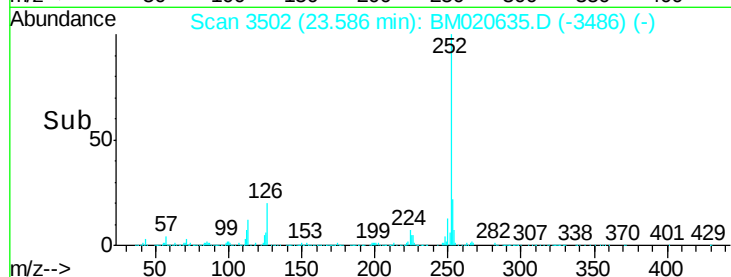
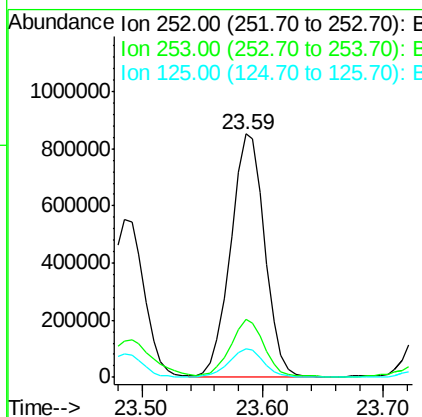
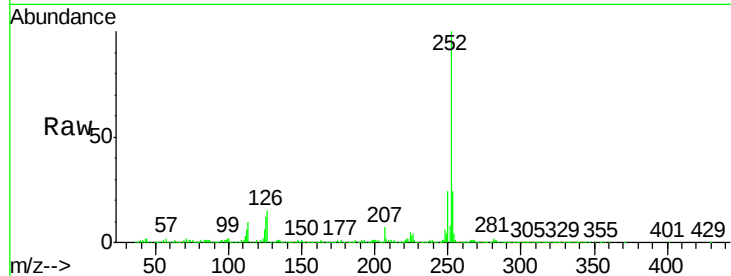
#90  
Benzo(a)pyrene  
Concen: 21.448 ng  
RT: 23.59 min Scan# 3502  
Delta R.T. -0.01 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

Instrument :  
BNA\_M  
ClientSampleId :  
B-6E(7-8)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.5  | 26.3  |
| 125     | 11.6  | 8.6   | 13.0  |

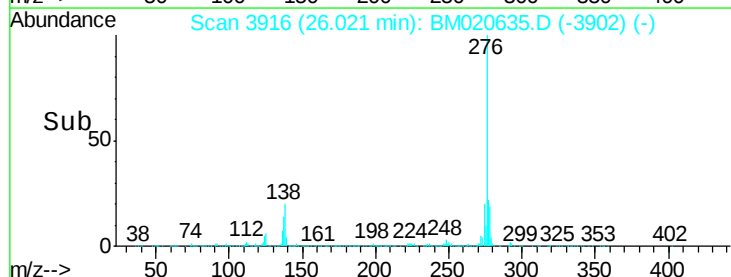
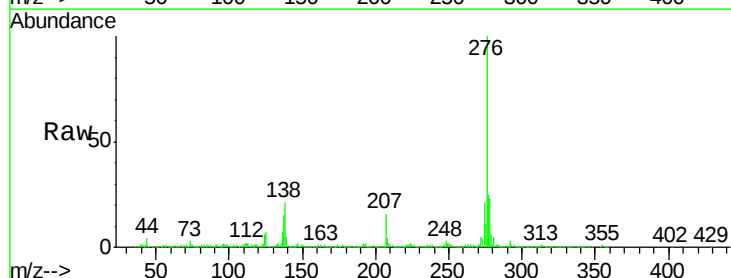
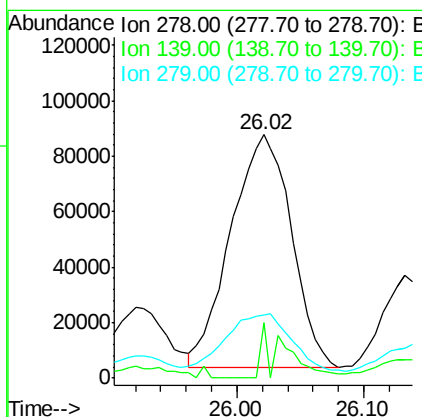
Manual Integrations  
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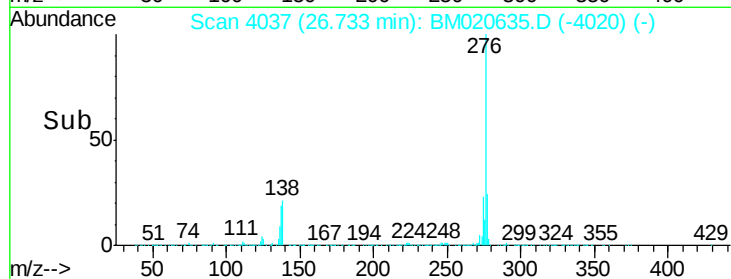
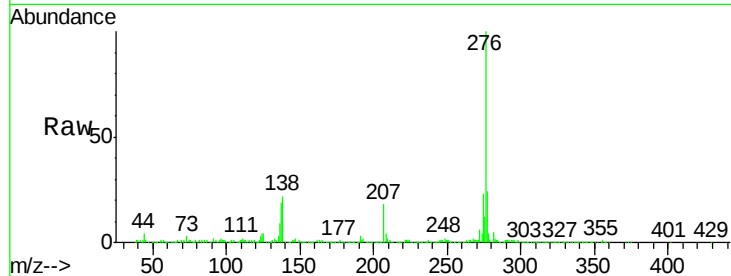
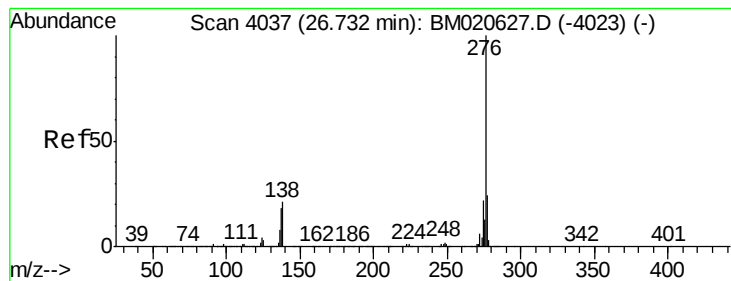
mohammad  
6/3/2019 8:48:53 AM



#91  
Dibenzo(a,h)anthracene  
Concen: 3.722 ng  
RT: 26.02 min Scan# 3916  
Delta R.T. -0.02 min  
Lab File: BM020635.D  
Acq: 31 May 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.6  | 12.6  | 18.8# |
| 279     | 26.1  | 19.0  | 28.6  |





#92

Benzo(a,h,i)perylene

Concen: 15.297 ng

RT: 26.73 min Scan# 4037

Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 276   | Resp: | 1063655 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 277       | 24.3  | 19.2  | 28.8    |
| 138       | 21.6  | 17.0  | 25.4    |

Instrument :

BNA\_M

ClientSampleId :

B-6E(7-8)DL

Manual Integrations  
APPROVED

mohammad  
6/3/2019 8:48:53 AM

