

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052119\  
 Data File : BE099694.D  
 Acq On : 21 May 2019 18:07  
 Operator : JU/SJ  
 Sample : PB119824BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119824BS

Manual Integrations  
 APPROVED

mohammad  
 5/23/2019 8:41:33 AM

Quant Time: May 22 08:24:54 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon May 20 19:29:40 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 1754     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.61 | 136  | 5858     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.49 | 164  | 3714     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 9578     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.41 | 240  | 15564    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.96 | 264  | 18837    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.38  | 112 | 1744  | 0.39 | ng | 0.00 |
| 5) Phenol-d6                | 6.97  | 99  | 2323  | 0.40 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 2013  | 0.40 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 3777m | 0.37 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 546   | 0.33 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.10 | 172 | 5711  | 0.41 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.26 | 212 | 50847 | 0.39 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.86 | 244 | 11159 | 0.40 | ng | 0.00 |

#### Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88  | 760    | 0.293 | ng | # 1    |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 427    | 0.298 | ng | # 1    |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93  | 1950   | 0.374 | ng | 98     |
| 9) Naphthalene                 | 10.67 | 128 | 24993  | 0.399 | ng | 100    |
| 10) Hexachlorobutadiene        | 10.94 | 225 | 1818   | 0.394 | ng | 97     |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 4040   | 0.396 | ng | 98     |
| 16) Acenaphthylene             | 14.20 | 152 | 6719   | 0.388 | ng | 99     |
| 17) Acenaphthene               | 14.54 | 154 | 3814   | 0.393 | ng | 97     |
| 18) Fluorene                   | 15.53 | 166 | 5346   | 0.374 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.43 | 248 | 2314   | 0.419 | ng | 97     |
| 21) Hexachlorobenzene          | 16.53 | 284 | 2413   | 0.427 | ng | 99     |
| 22) Pentachlorophenol          | 16.92 | 266 | 682    | 0.565 | ng | 97     |
| 23) Phenanthrene               | 17.27 | 178 | 9354   | 0.400 | ng | 100    |
| 24) Anthracene                 | 17.36 | 178 | 8428   | 0.397 | ng | 99     |
| 26) Fluoranthene               | 19.29 | 202 | 14510  | 0.392 | ng | 99     |
| 28) Pyrene                     | 19.65 | 202 | 15255  | 0.390 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.40 | 228 | 20638  | 0.467 | ng | 99     |
| 31) Chrysene                   | 21.45 | 228 | 20991  | 0.444 | ng | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 25415  | 0.499 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.65 | 276 | 26586  | 0.466 | ng | 99     |
| 35) Benzo(b)fluoranthene       | 23.17 | 252 | 21948m | 0.425 | ng |        |
| 36) Benzo(k)fluoranthene       | 23.22 | 252 | 22645  | 0.421 | ng | 99     |
| 37) Benzo(a)pyrene             | 23.84 | 252 | 21865  | 0.440 | ng | # 98   |
| 38) Dibenzo(a,h)anthracene     | 26.68 | 278 | 21848  | 0.419 | ng | 98     |
| 39) Benzo(g,h,i)perylene       | 27.48 | 276 | 22663  | 0.430 | ng | 99     |

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

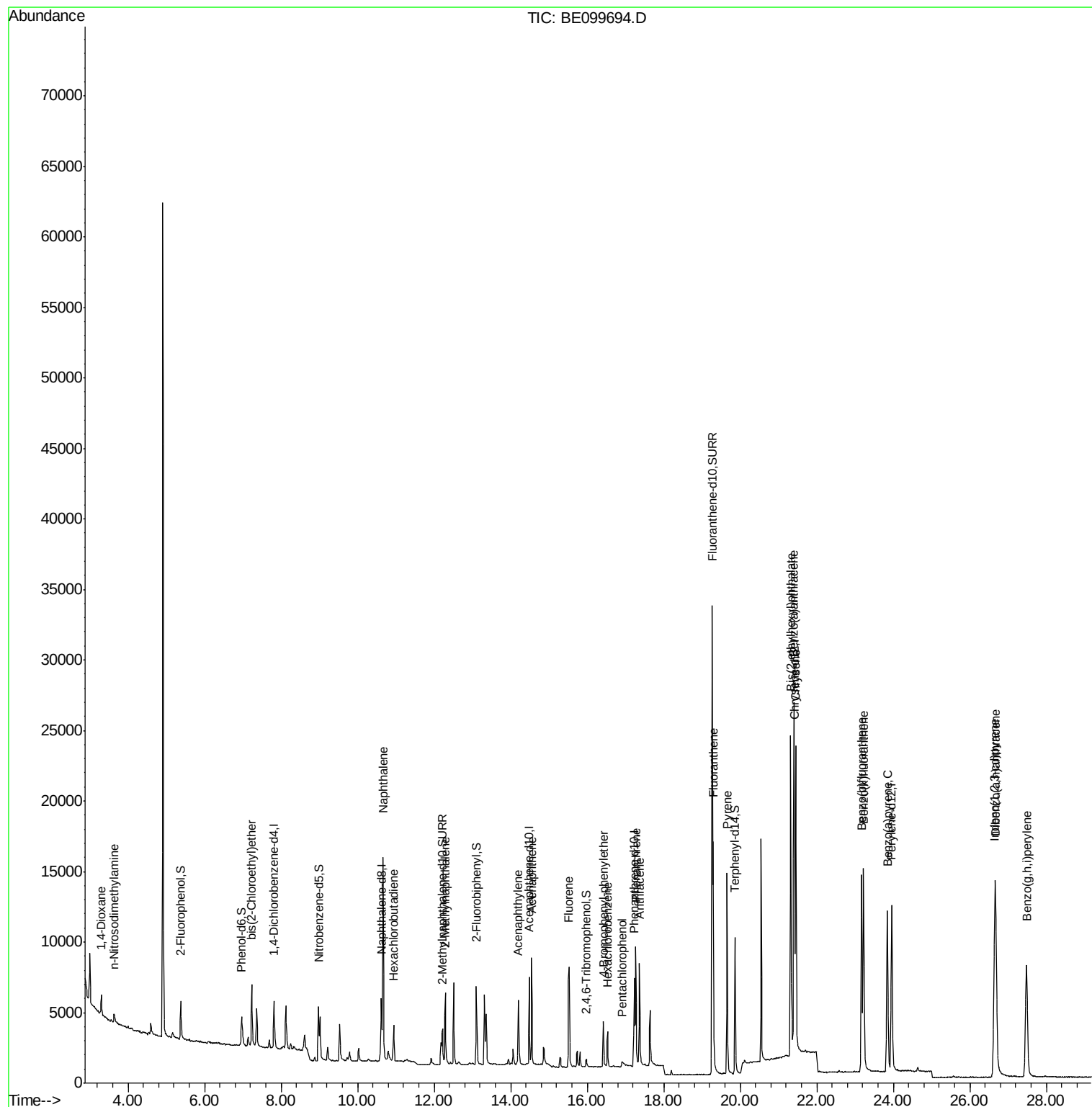
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052119\  
Data File : BE099694.D  
Acq On : 21 May 2019 18:07  
Operator : JU/SJ  
Sample : PB119824BS  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

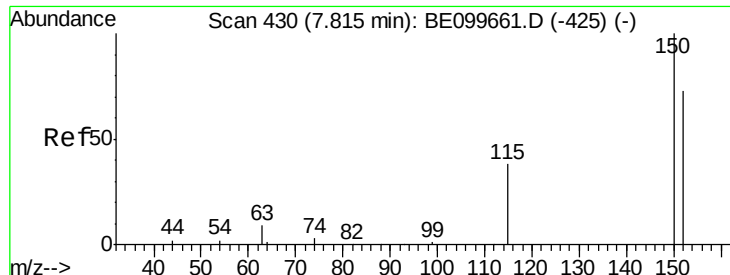
Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

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Quant Time: May 22 08:24:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 20 19:29:40 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

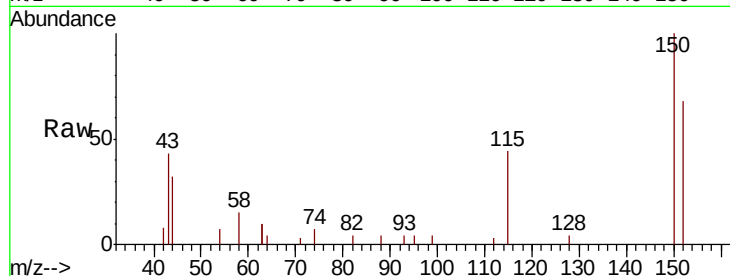
ClientSampleId :

PB119824BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 1754  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 147.9 | 109.2 | 163.8 |
| 115      | 65.7  | 43.7  | 65.5# |

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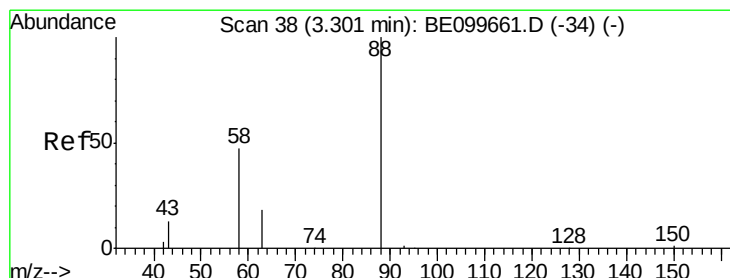
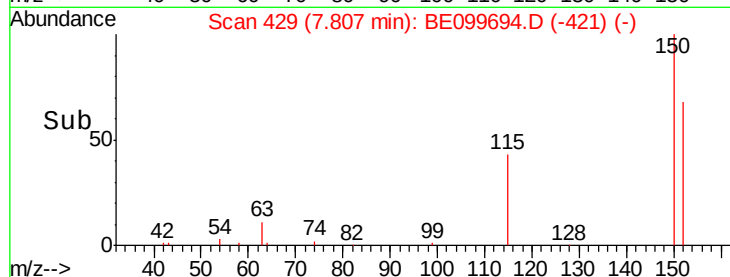
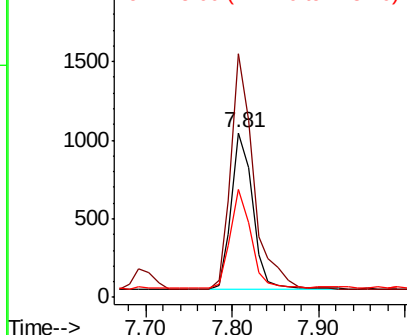


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.293 ng

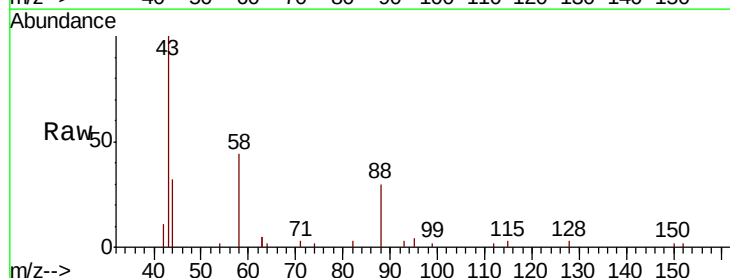
RT: 3.30 min Scan# 38

Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 760   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 82.0  | 41.8  | 62.8# |
| 43       | 149.9 | 15.0  | 22.4# |

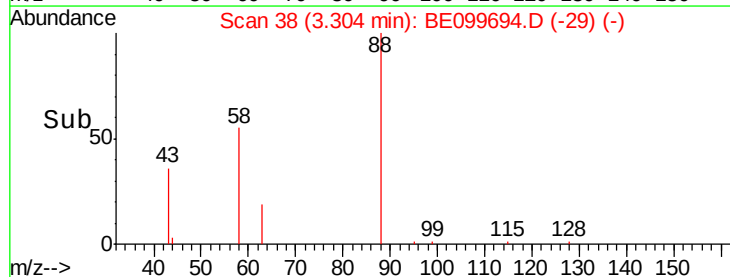
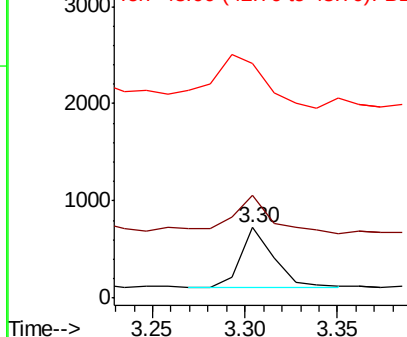


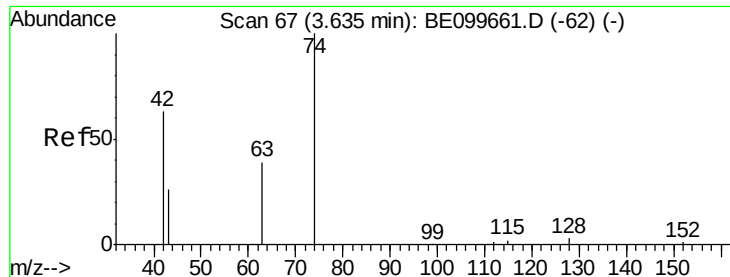
Abundance

Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.298 ng

RT: 3.63 min Scan# 66

Delta R.T. -0.01 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

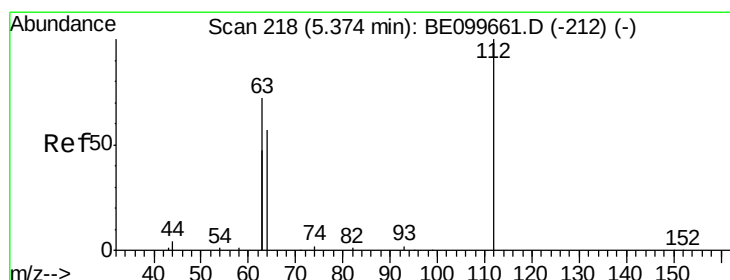
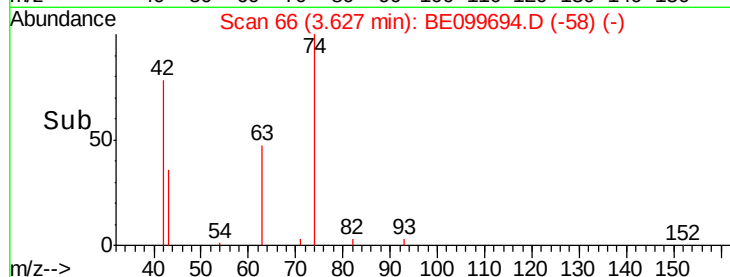
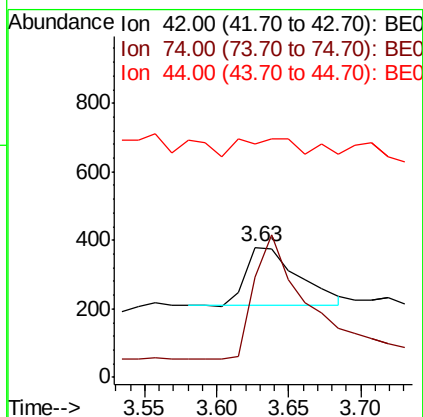
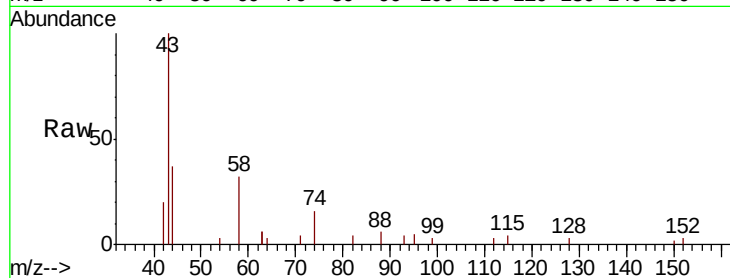
ClientSampleId :

PB119824BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 427    |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 74       | 0.0   | 129.2 | 193.8# |
| 44       | 38.9  | 0.0   | 0.0#   |

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#4

2-Fluorophenol

Concen: 0.393 ng

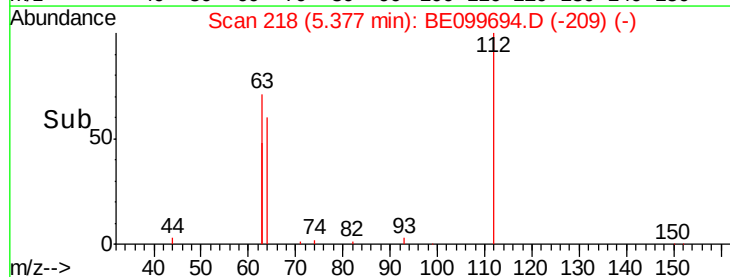
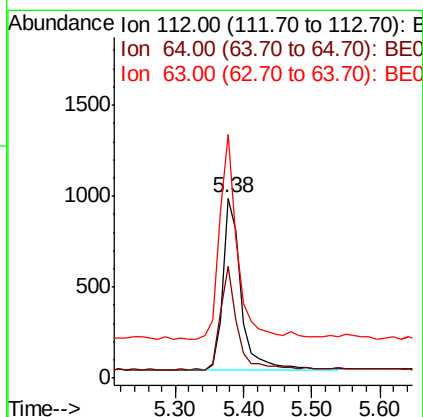
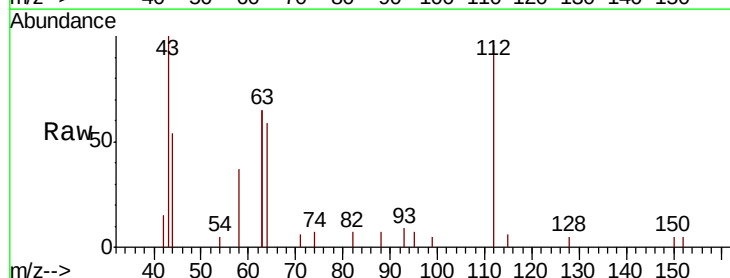
RT: 5.38 min Scan# 218

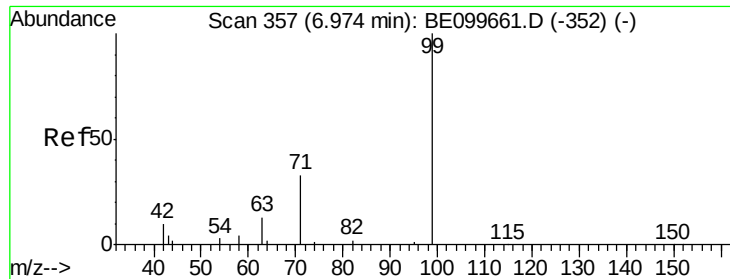
Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1744  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 56.4  | 43.4  | 65.2  |
| 63       | 115.9 | 96.9  | 145.3 |





#5

Phenol-d6

Concen: 0.396 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

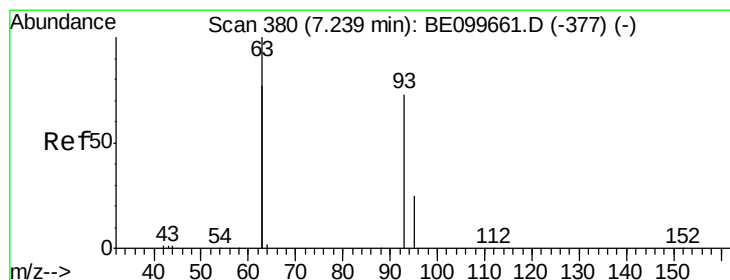
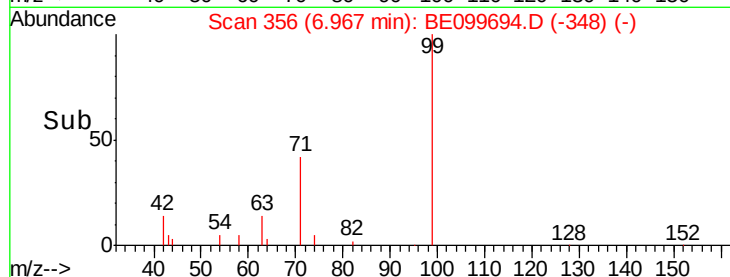
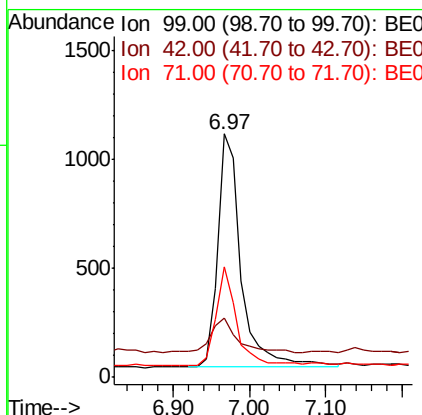
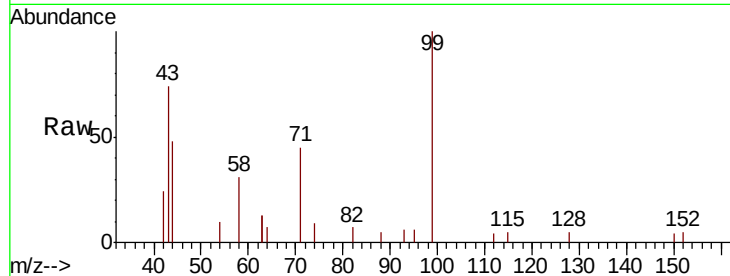
ClientSampled :

PB119824BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 2323  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.9  | 12.2  | 18.2  |
| 71       | 36.4  | 28.9  | 43.3  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.374 ng

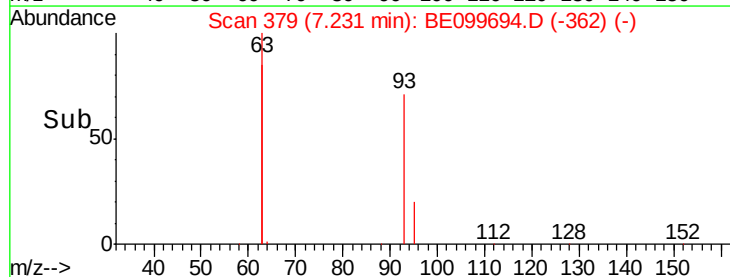
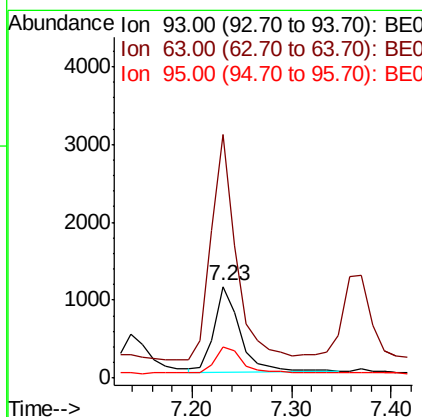
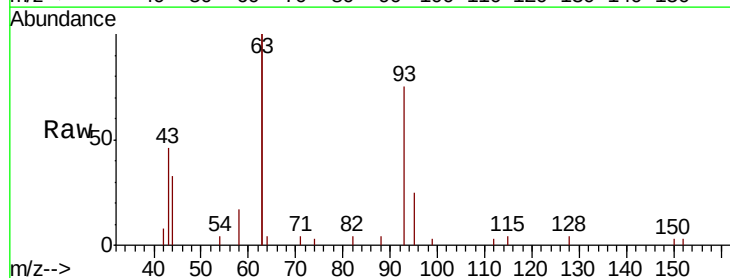
RT: 7.23 min Scan# 379

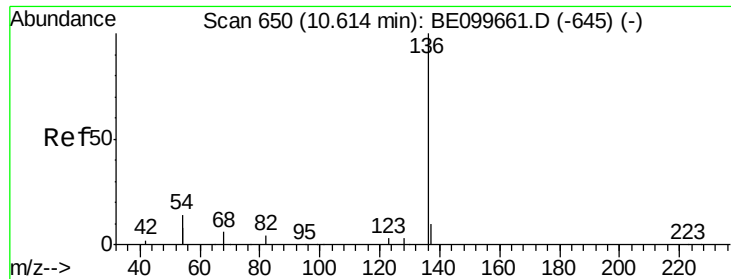
Delta R.T. -0.01 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1950  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 256.2 | 207.8 | 311.6 |
| 95       | 33.3  | 25.9  | 38.9  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

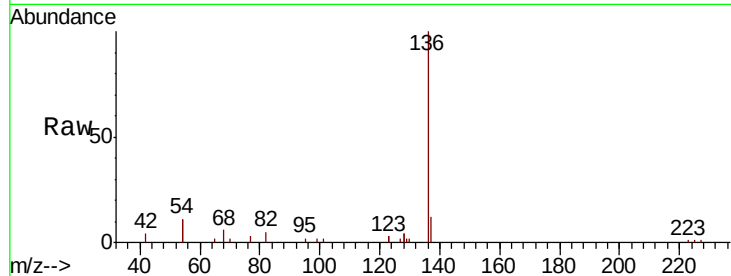
ClientSampleId :

PB119824BS

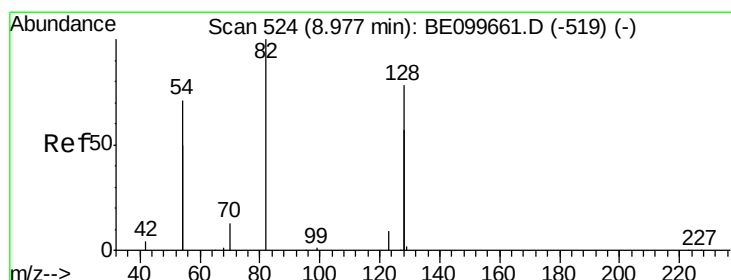
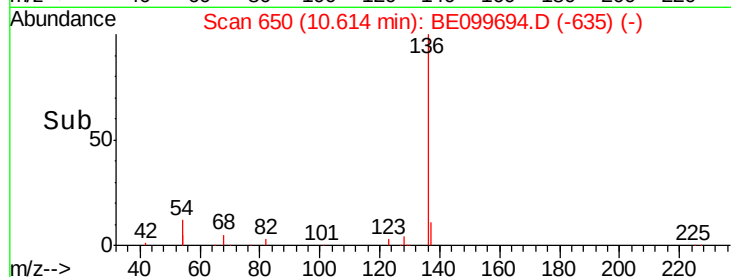
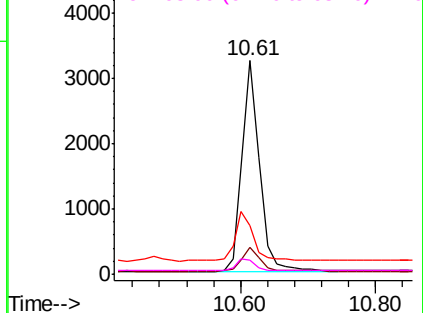
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   | 5858 |       |       |
| 137     | 12.5  |      | 9.0   | 13.6  |
| 54      | 22.9  |      | 22.3  | 33.5  |
| 68      | 6.5   |      | 6.0   | 9.0   |

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Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BE0  
Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.397 ng

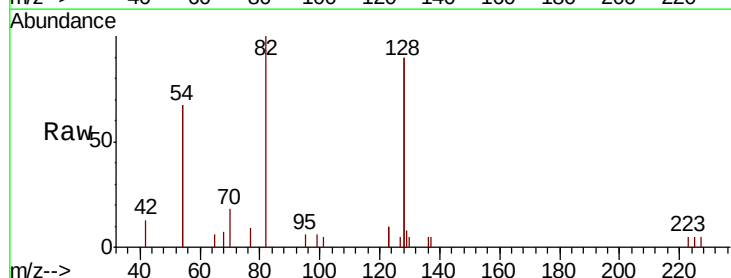
RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

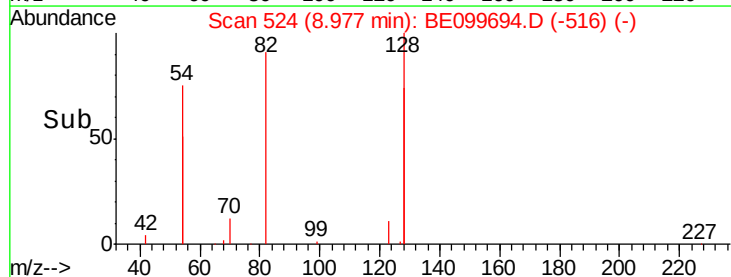
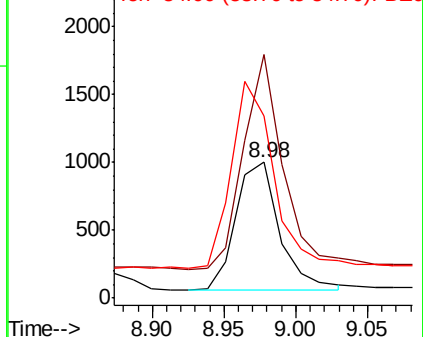
Lab File: BE099694.D

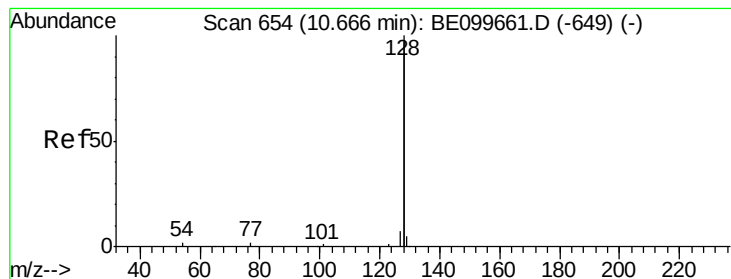
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Resp | Lower | Upper  |
|---------|-------|------|-------|--------|
| 82      | 100   | 2013 |       |        |
| 128     | 179.6 |      | 117.7 | 176.5# |
| 54      | 133.9 |      | 106.6 | 160.0  |



Abundance Ion 82.00 (81.70 to 82.70): BE0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.399 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

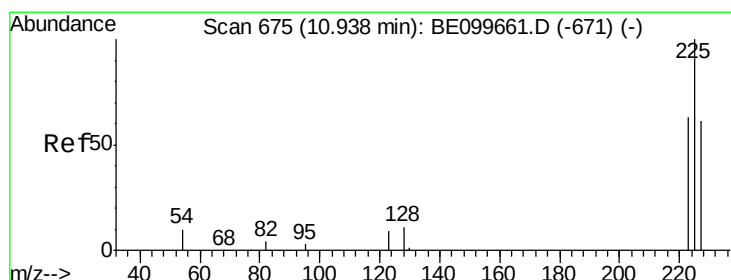
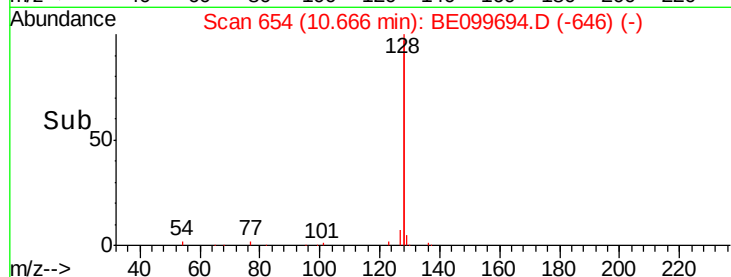
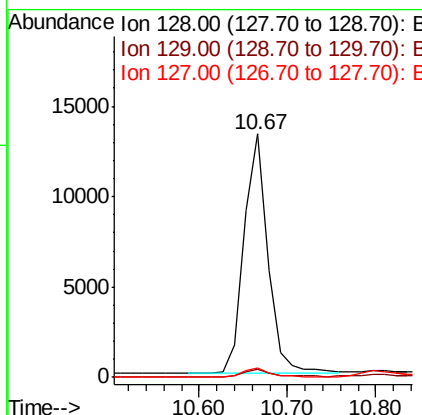
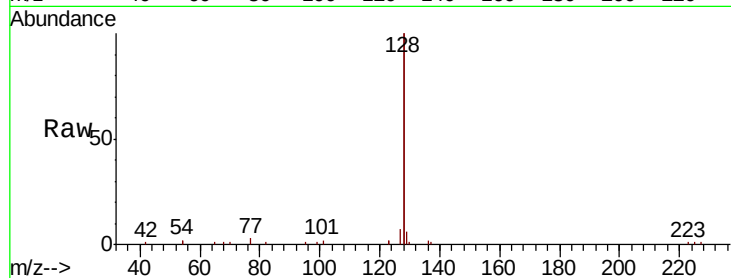
ClientSampleId :

PB119824BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 24993 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.1   | 2.4   | 3.6   |
| 127       | 3.7   | 2.9   | 4.3   |

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#10

Hexachlorobutadiene

Concen: 0.394 ng

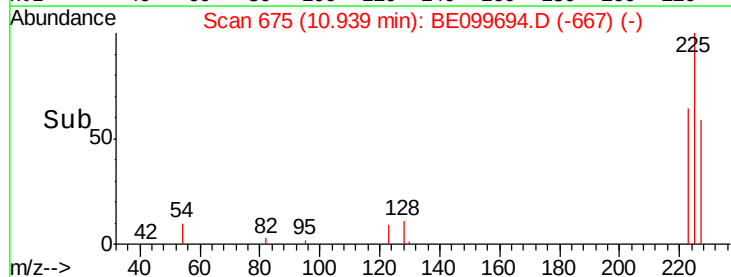
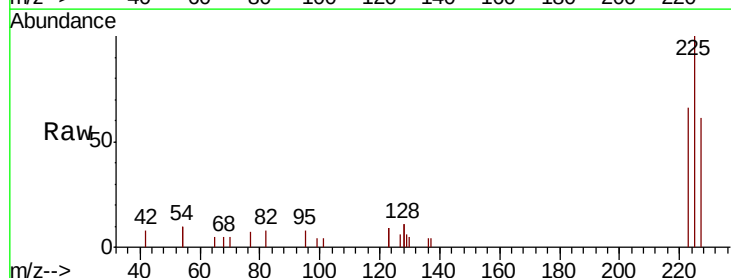
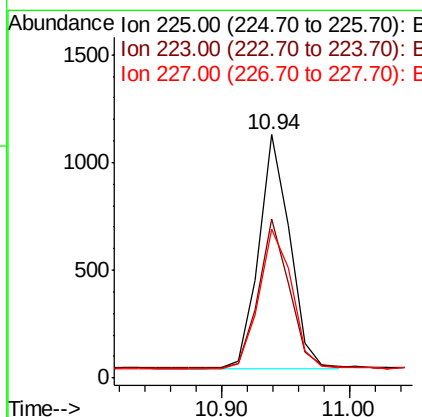
RT: 10.94 min Scan# 675

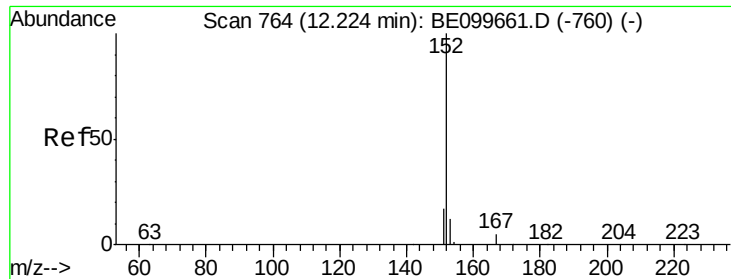
Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 1818 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 63.3  | 51.8  | 77.6 |
| 227       | 63.2  | 52.6  | 79.0 |





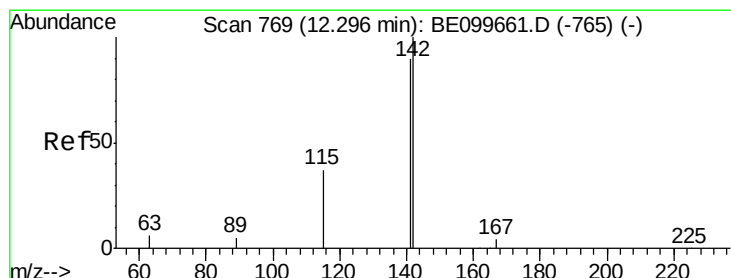
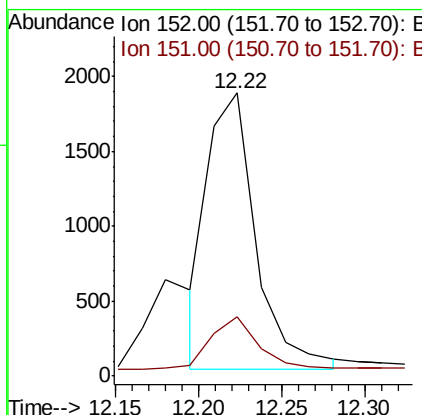
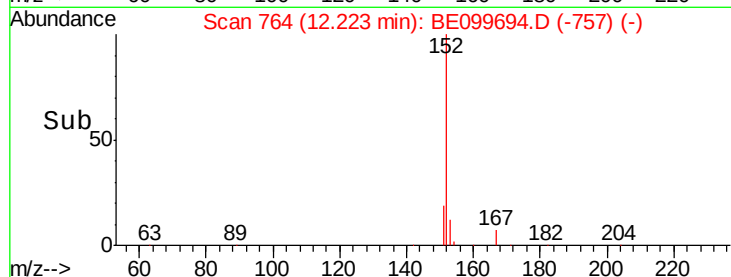
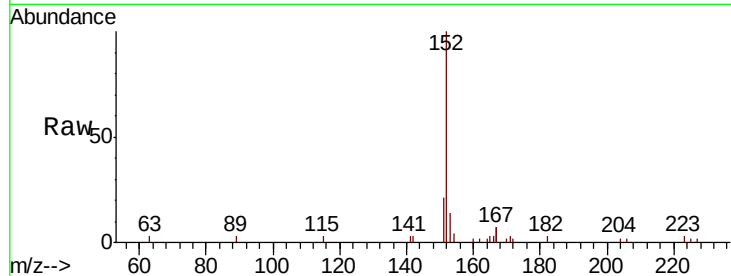
#11  
2-Methylnaphthalene-d10  
Concen: 0.374 ng m  
RT: 12.22 min Scan# 764  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 15.0  | 22.4  |

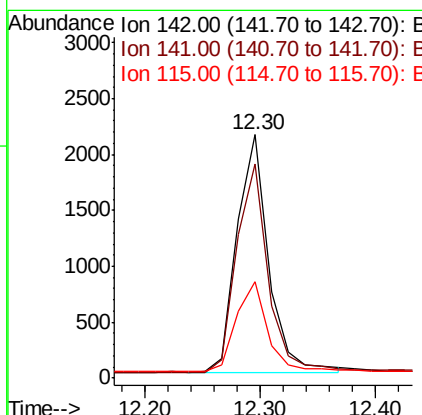
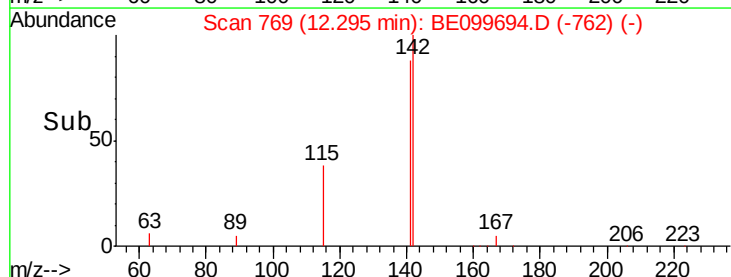
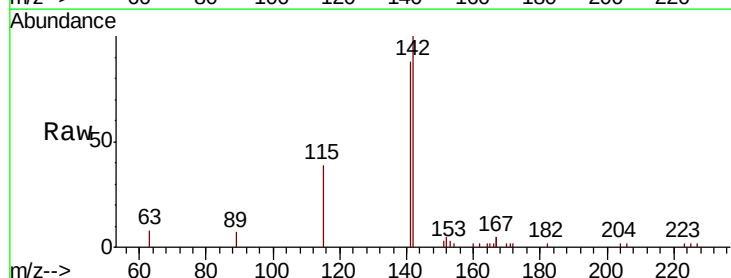
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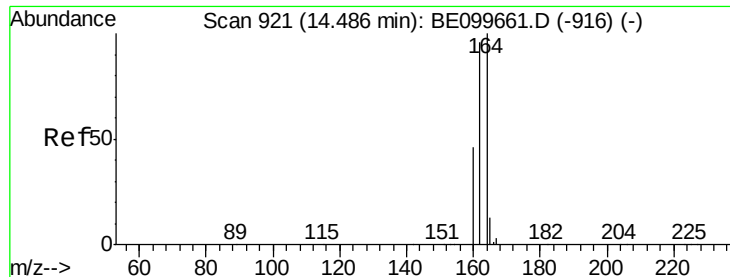


#12  
2-Methylnaphthalene  
Concen: 0.396 ng  
RT: 12.30 min Scan# 769  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.2  | 72.0  | 108.0 |
| 115     | 39.4  | 31.0  | 46.4  |







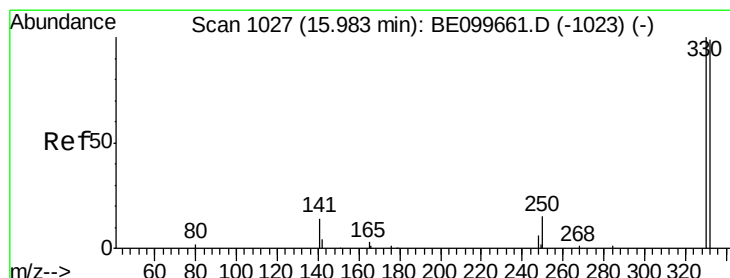
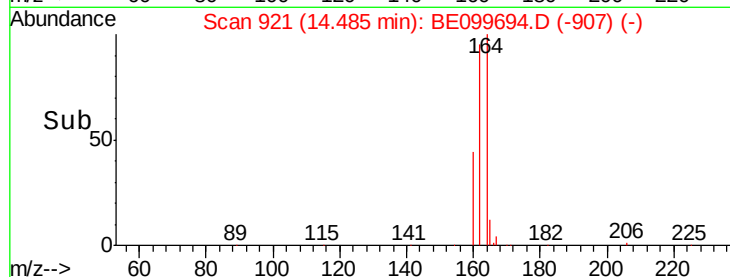
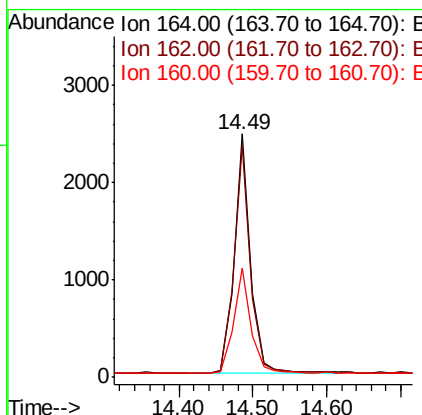
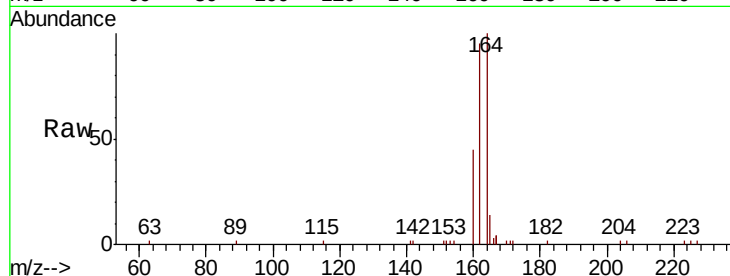
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.49 min Scan# 921  
 Delta R.T. -0.00 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.4  | 76.5  | 114.7 |
| 160     | 45.1  | 37.4  | 56.2  |

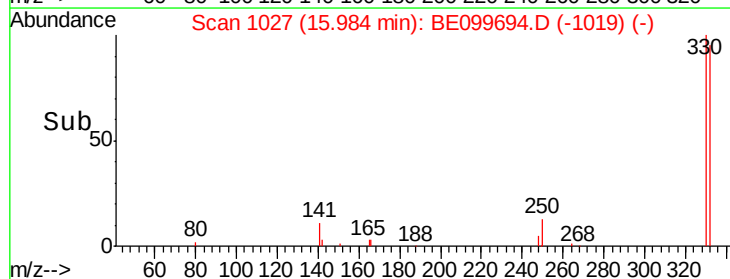
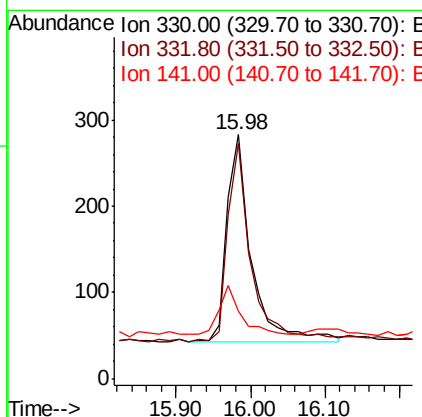
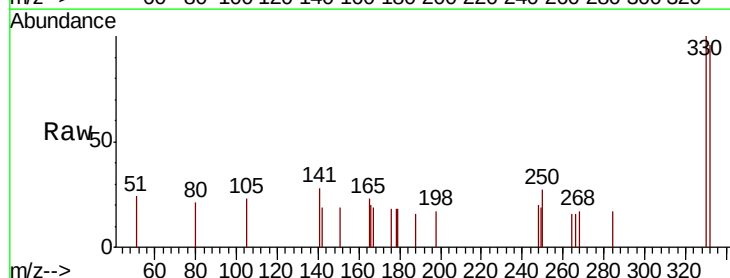
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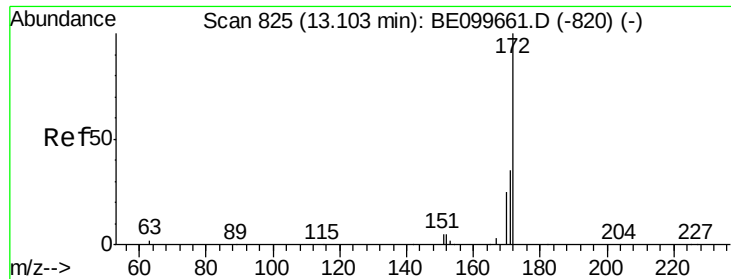
mohammad  
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.328 ng  
 RT: 15.98 min Scan# 1027  
 Delta R.T. 0.00 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 77.3  | 115.9 |
| 141     | 20.5  | 18.9  | 28.3  |





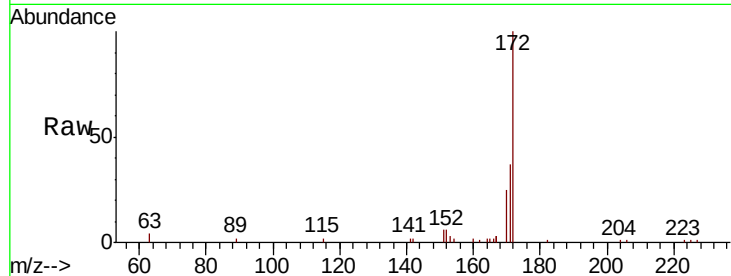
#15  
2-Fluorobiphenyl  
Concen: 0.405 ng  
RT: 13.10 min Scan# 825  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 28.7  | 43.1  |
| 170     | 25.4  | 20.9  | 31.3  |

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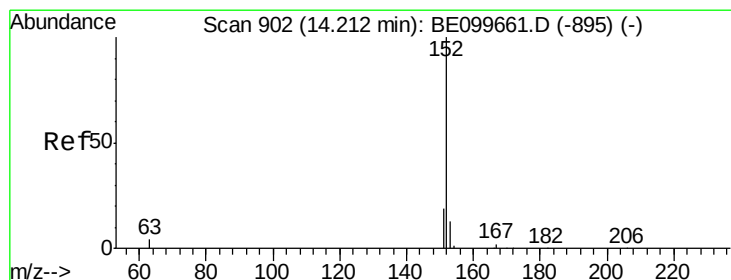
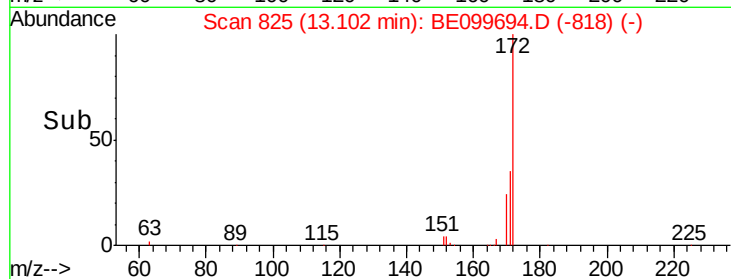
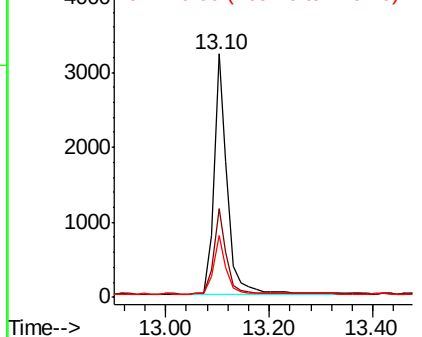


Abundance

Ion 172.00 (171.70 to 172.70): E

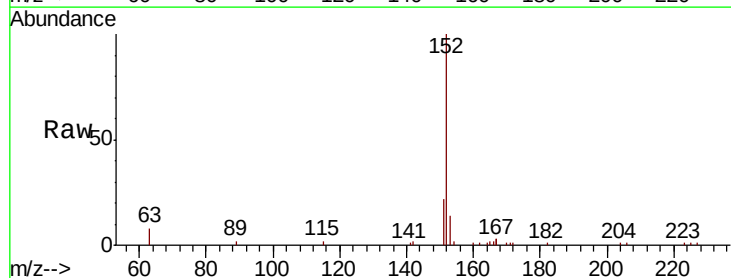
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16  
Acenaphthylene  
Concen: 0.388 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.02 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 15.9  | 23.9  |
| 153     | 13.2  | 10.6  | 16.0  |

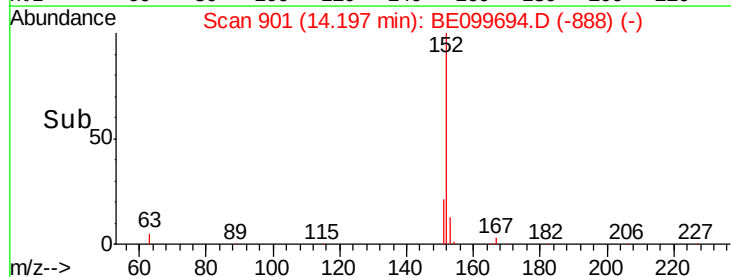
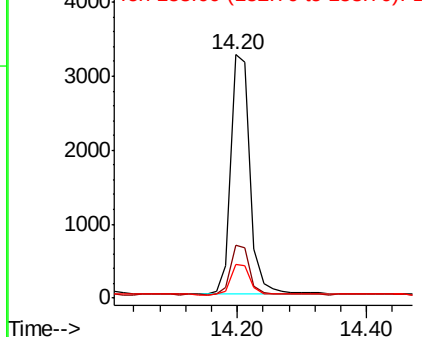


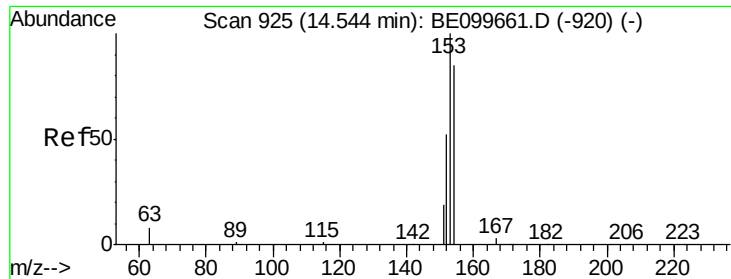
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.393 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

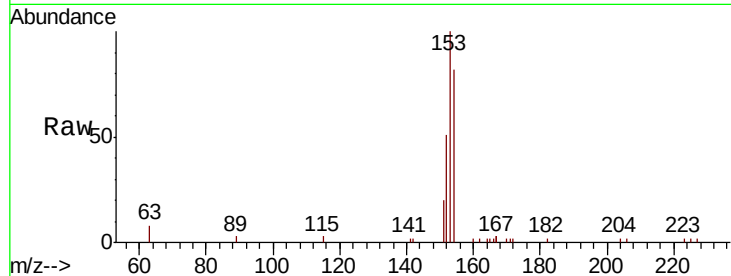
ClientSampleId :

PB119824BS

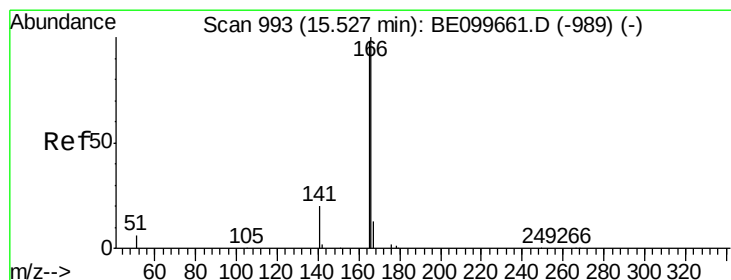
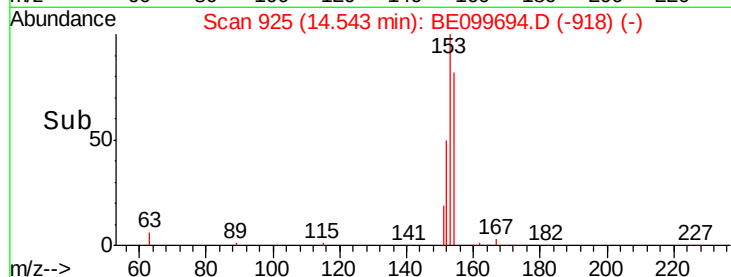
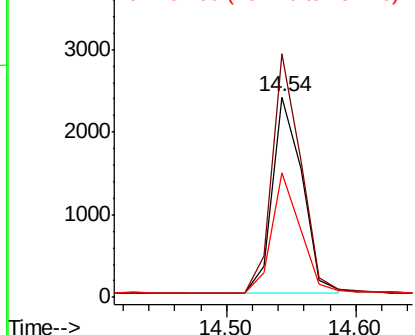
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 3814  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 118.0 | 91.8  | 137.6 |
| 152      | 58.7  | 46.0  | 69.0  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.374 ng

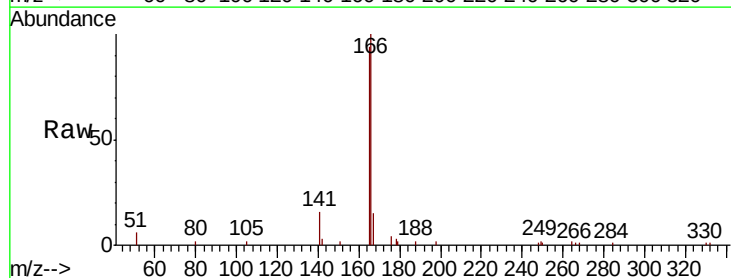
RT: 15.53 min Scan# 993

Delta R.T. 0.00 min

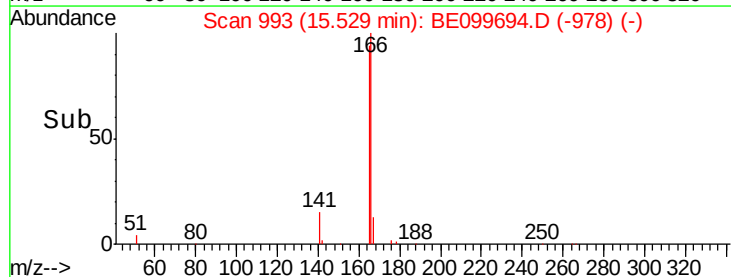
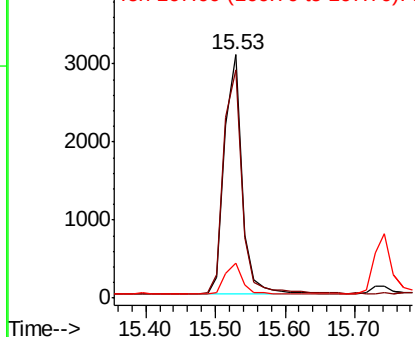
Lab File: BE099694.D

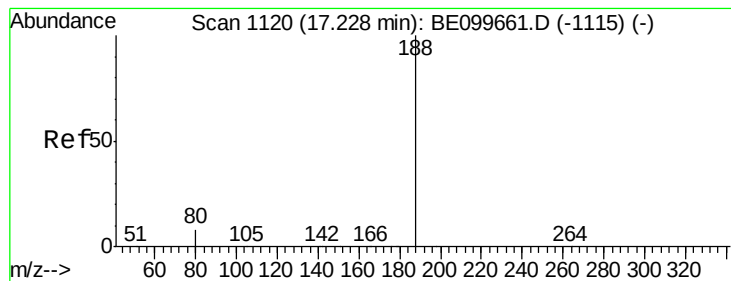
Acq: 21 May 2019 18:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 5346  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.5  | 80.3  | 120.5 |
| 167      | 13.2  | 10.6  | 16.0  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

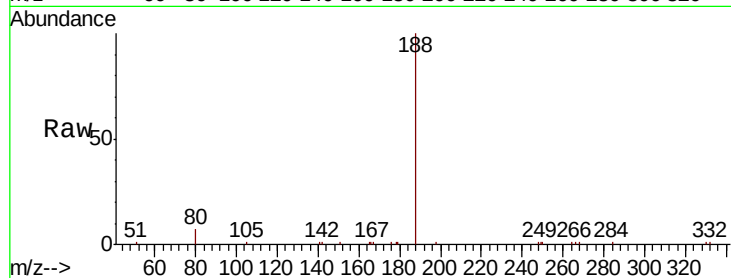
ClientSampleId :

PB119824BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 9578 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 7.0   | 6.7   | 10.1 |

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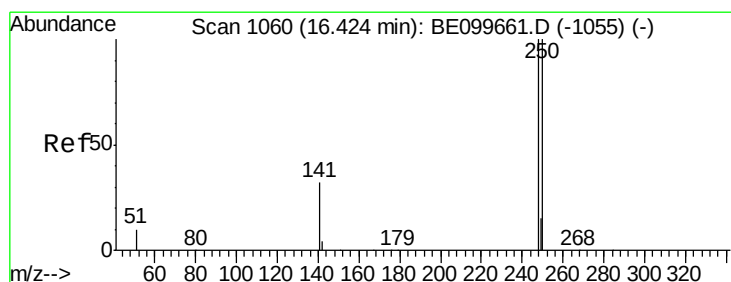
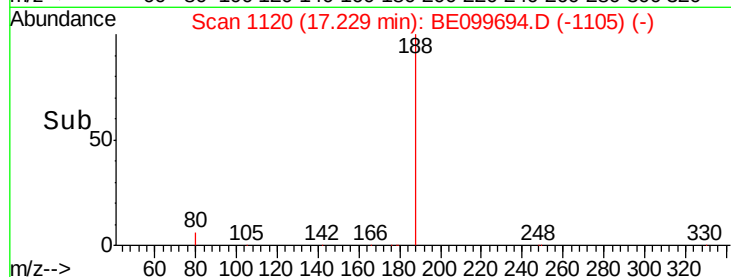
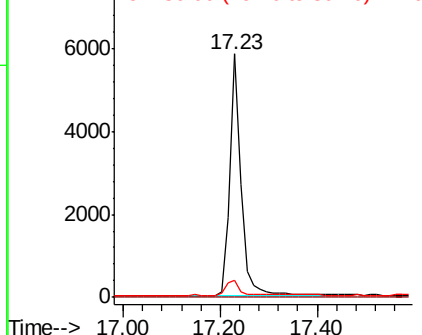
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.419 ng

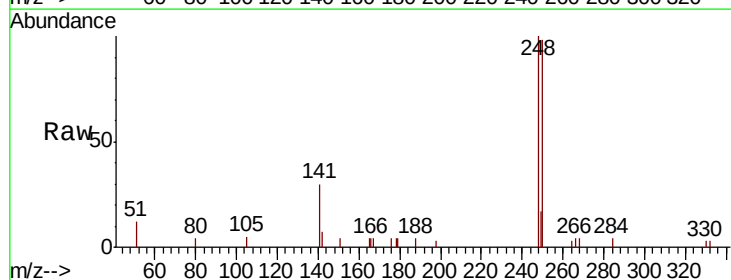
RT: 16.43 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

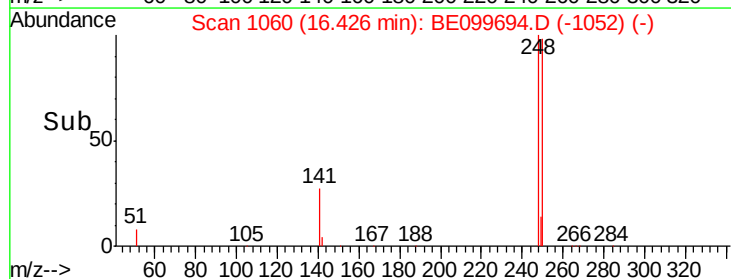
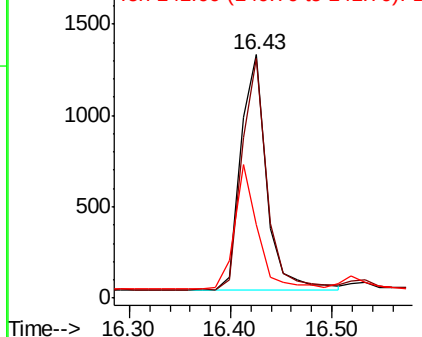
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 2314  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 98.3  | 79.8  | 119.8 |
| 141       | 30.2  | 27.0  | 40.6  |

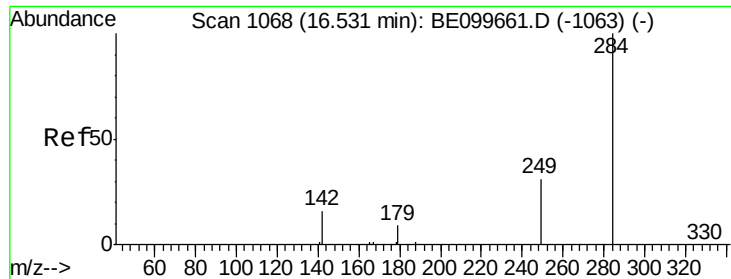


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





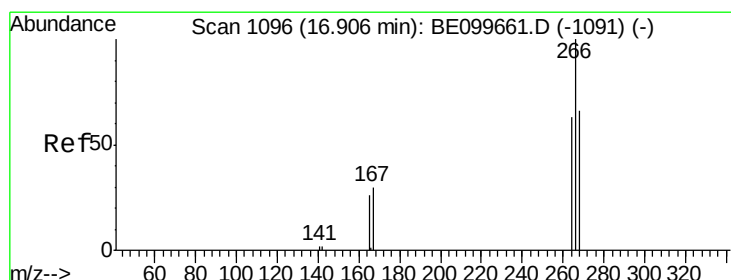
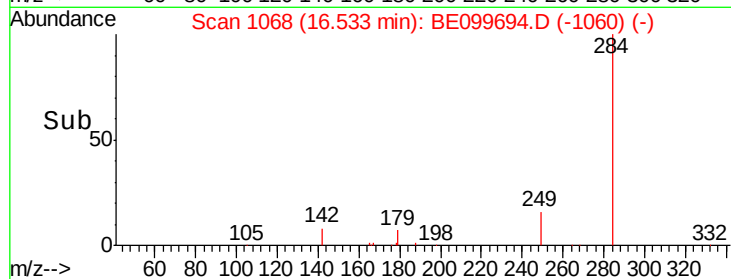
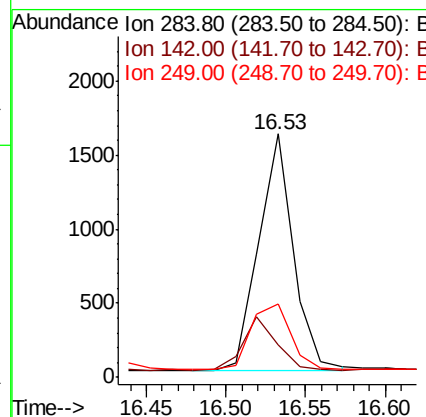
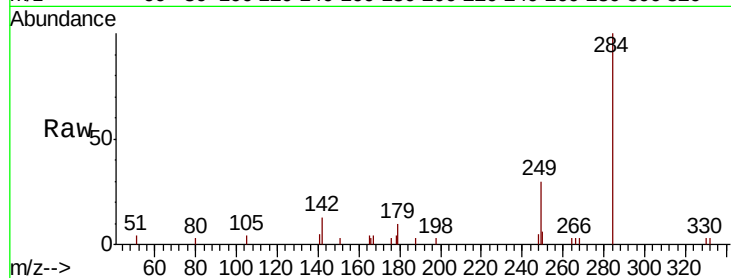
#21  
Hexachlorobenzene  
Concen: 0.427 ng  
RT: 16.53 min Scan# 1068  
Delta R.T. 0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 21.9  | 17.8  | 26.6  |
| 249     | 32.1  | 24.8  | 37.2  |

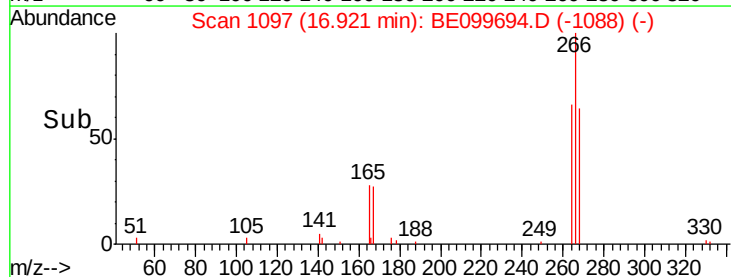
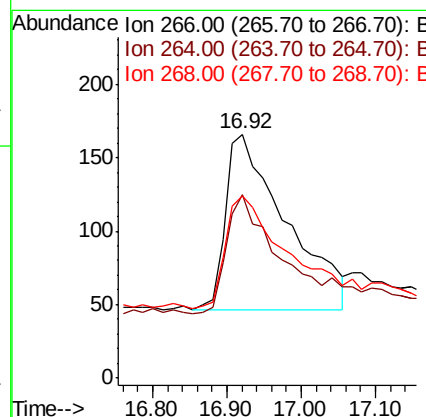
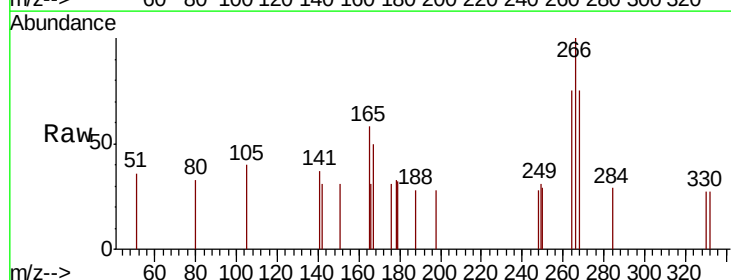
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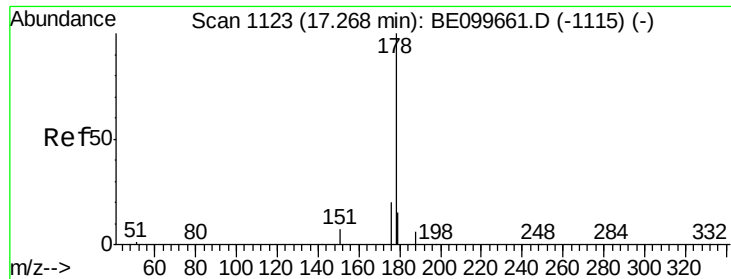
mohammad  
5/23/2019 8:41:33 AM



#22  
Pentachlorophenol  
Concen: 0.565 ng  
RT: 16.92 min Scan# 1097  
Delta R.T. 0.01 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 75.3  | 57.2  | 85.8  |
| 268     | 74.7  | 60.5  | 90.7  |





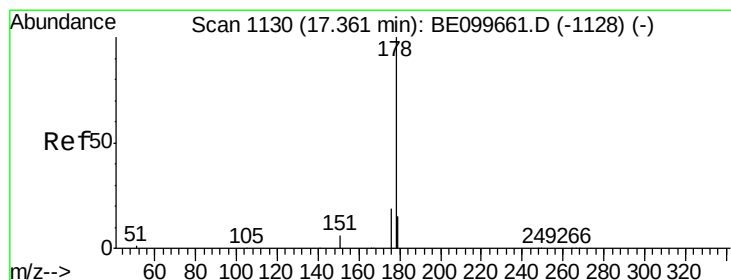
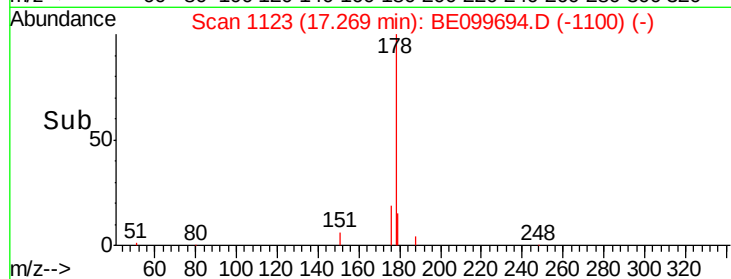
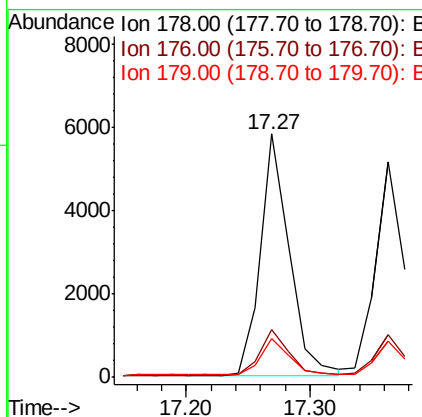
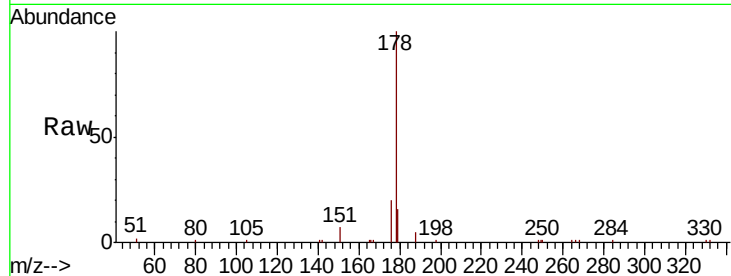
#23  
Phenanthrene  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1123  
Delta R.T. 0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 15.6  | 23.4  |
| 179     | 15.2  | 12.2  | 18.4  |

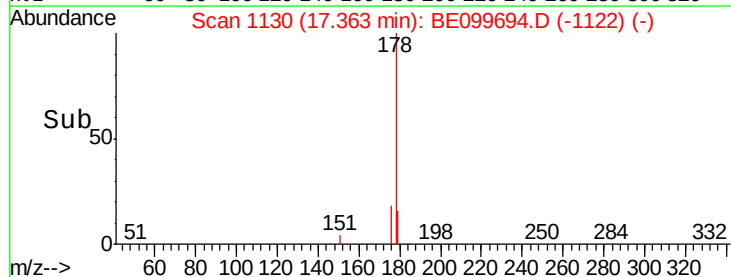
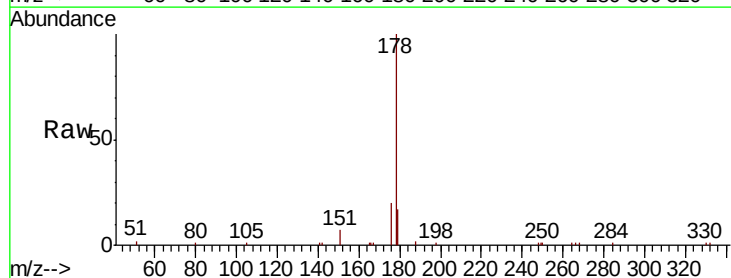
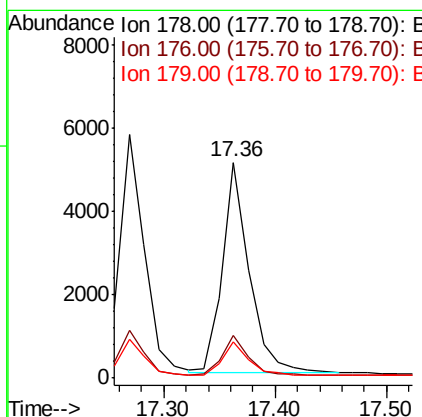
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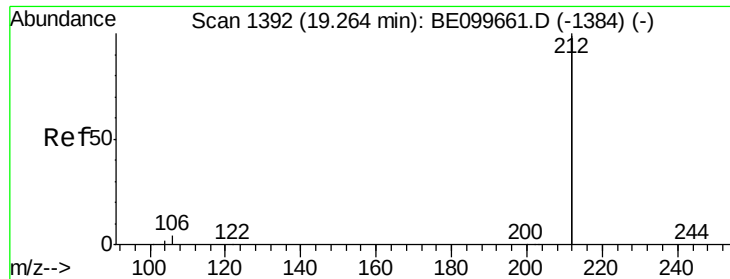
mohammad  
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#24  
Anthracene  
Concen: 0.397 ng  
RT: 17.36 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 14.7  | 22.1  |
| 179     | 15.7  | 12.0  | 18.0  |





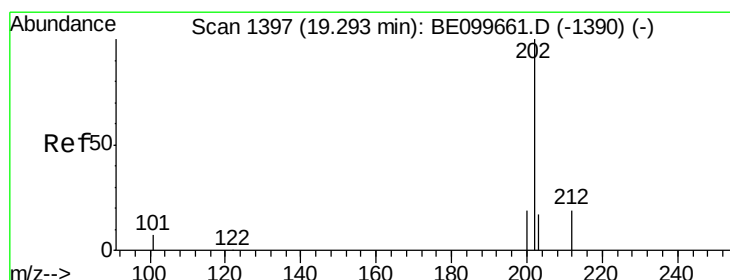
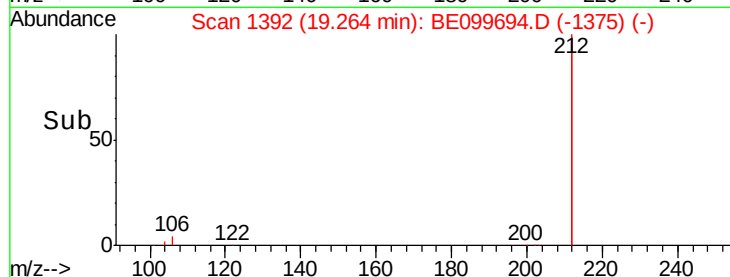
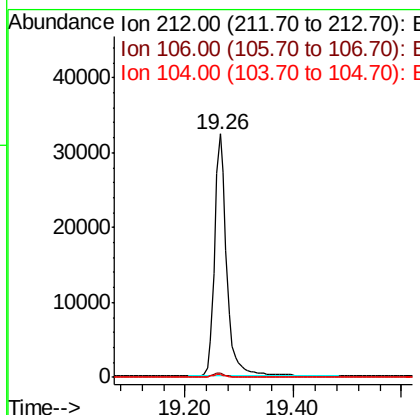
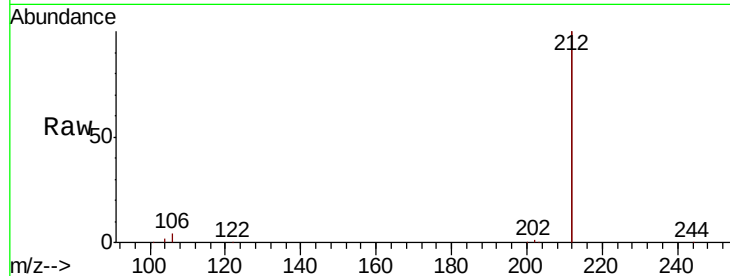
#25  
Fluoranthene-d10  
Concen: 0.389 ng  
RT: 19.26 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 1.8   | 1.4   | 2.2   |
| 104     | 1.0   | 0.8   | 1.2   |

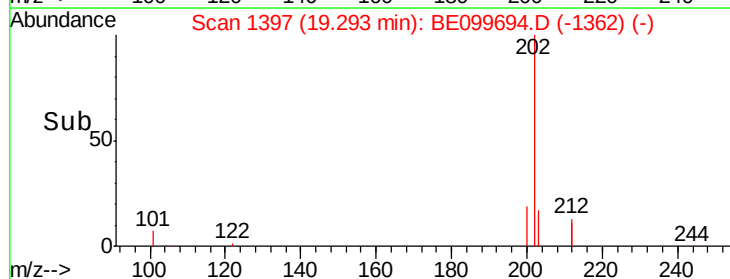
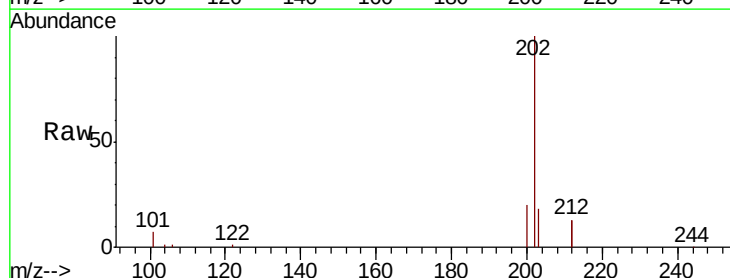
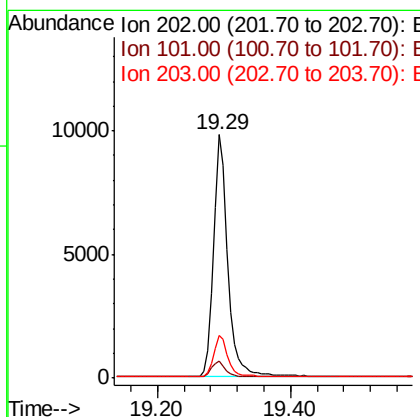
Manual Integrations  
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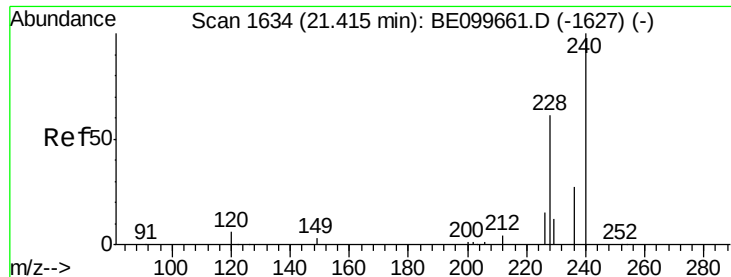
mohammad  
5/23/2019 8:41:33 AM



#26  
Fluoranthene  
Concen: 0.392 ng  
RT: 19.29 min Scan# 1397  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 6.6   | 5.2   | 7.8   |
| 203     | 16.9  | 13.8  | 20.6  |





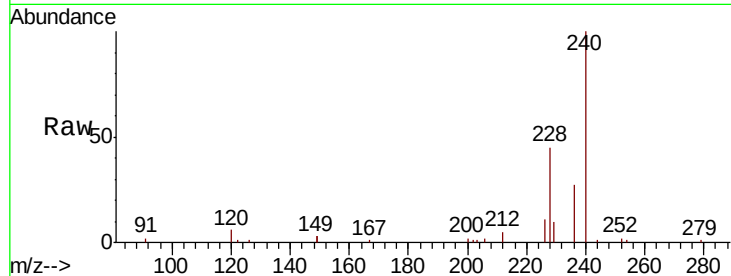
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.41 min Scan# 1634  
 Delta R.T. -0.00 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.7   | 5.4   | 8.0   |
| 236     | 27.2  | 21.7  | 32.5  |

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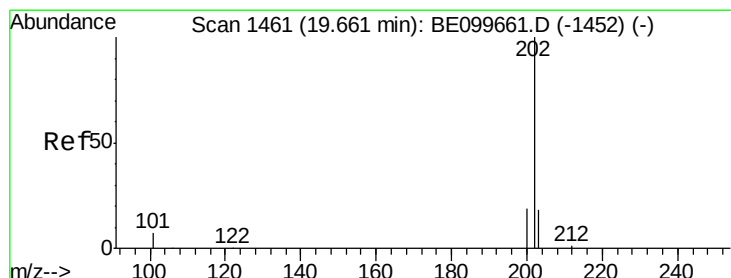
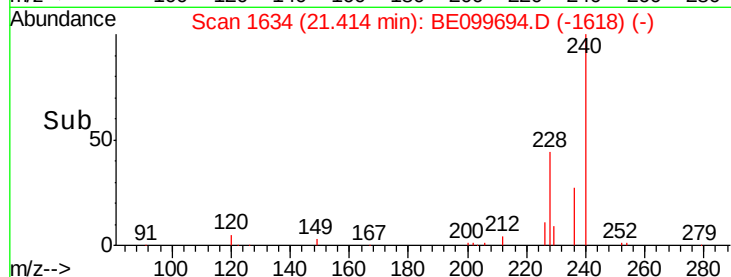
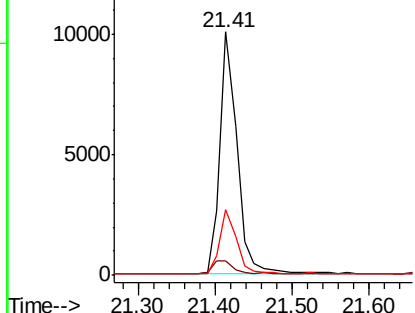


Abundance

Ion 240.00 (239.70 to 240.70): E

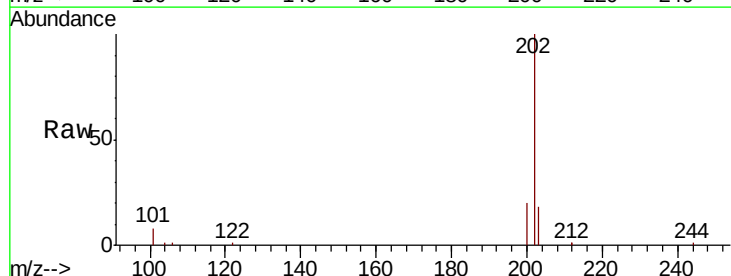
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28  
 Pyrene  
 Concen: 0.390 ng  
 RT: 19.65 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.5  | 15.4  | 23.2  |
| 203     | 18.0  | 13.8  | 20.8  |

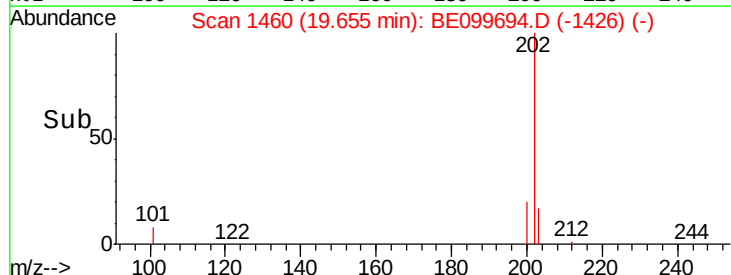
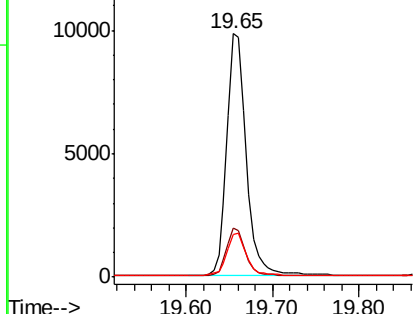


Abundance

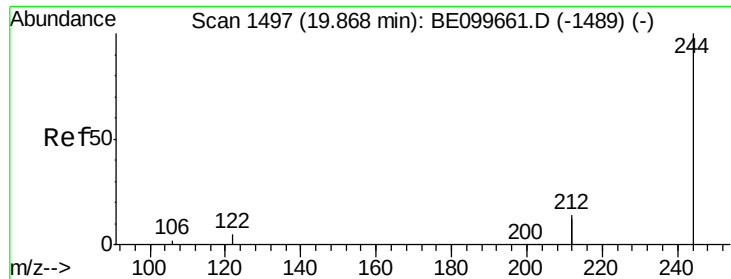
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







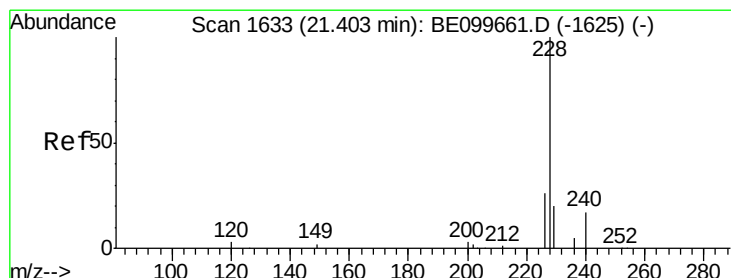
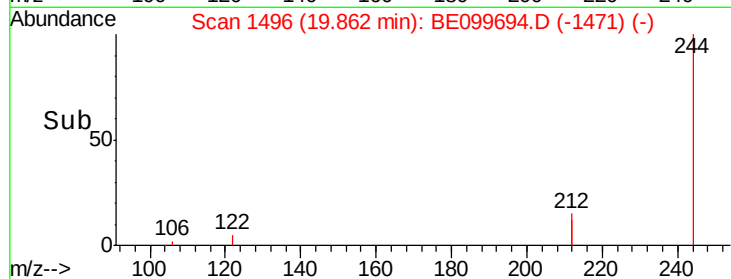
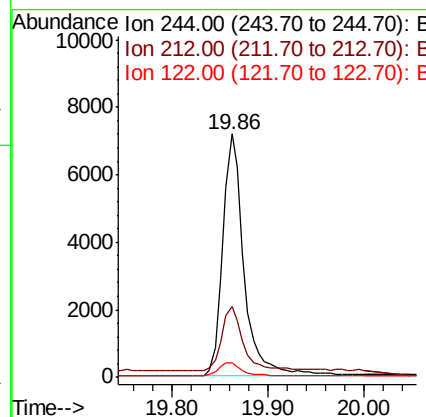
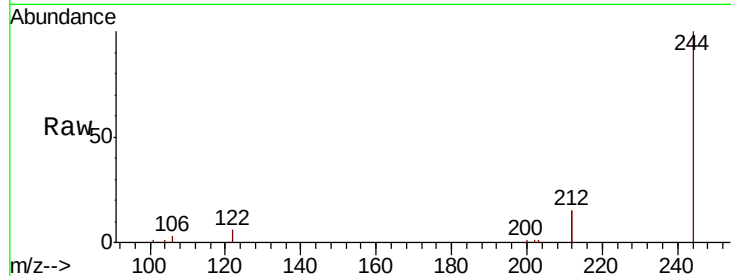
#29  
 Terphenyl-d14  
 Concen: 0.402 ng  
 RT: 19.86 min Scan# 1496  
 Delta R.T. -0.01 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 29.3  | 22.5  | 33.7  |
| 122     | 6.1   | 4.3   | 6.5   |

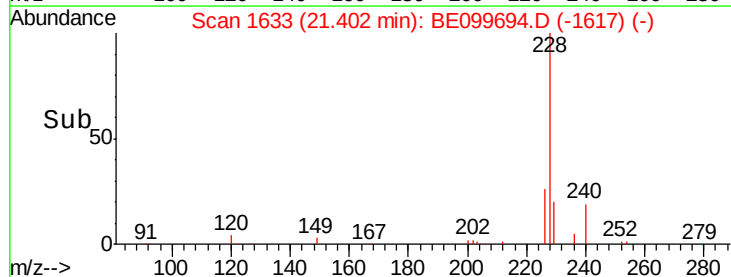
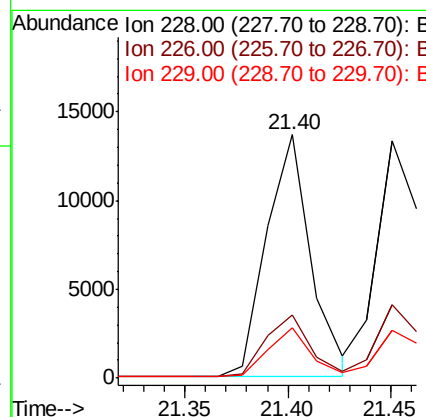
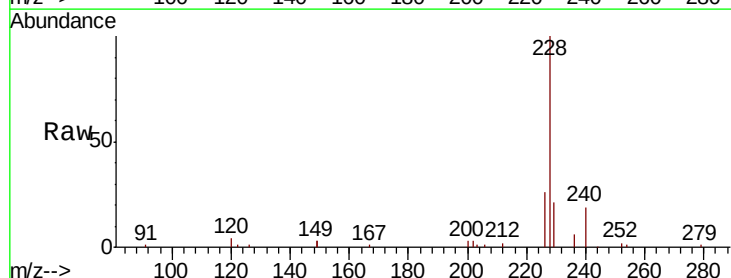
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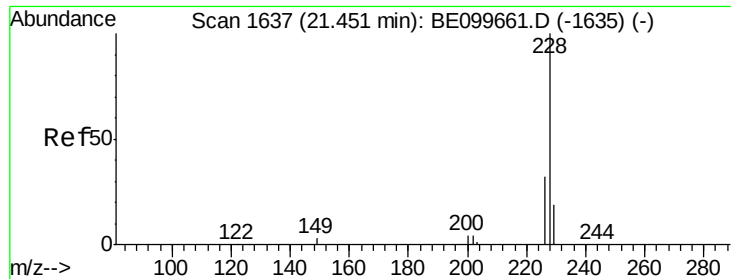
mohammad  
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#30  
 Benzo(a)anthracene  
 Concen: 0.467 ng  
 RT: 21.40 min Scan# 1633  
 Delta R.T. -0.00 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.0  | 21.3  | 31.9  |
| 229     | 20.5  | 16.1  | 24.1  |





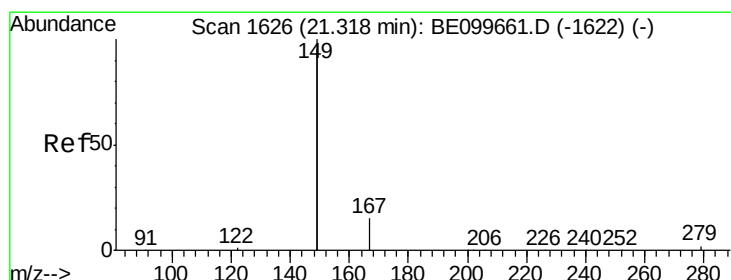
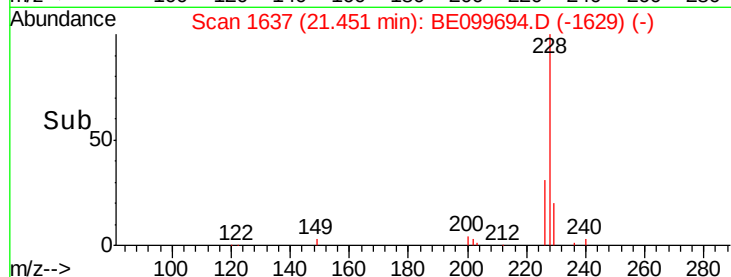
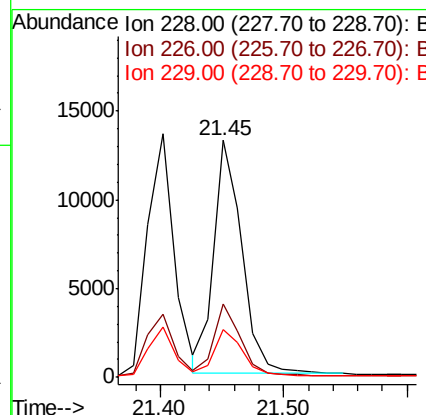
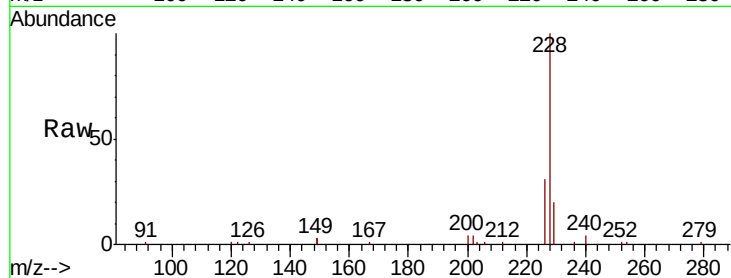
#31  
Chrysene  
Concen: 0.444 ng  
RT: 21.45 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 24.7  | 37.1  |
| 229     | 20.0  | 15.8  | 23.6  |

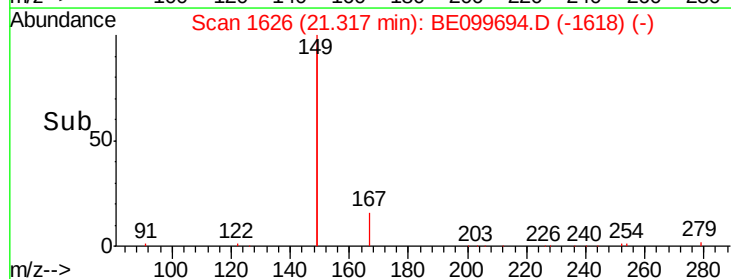
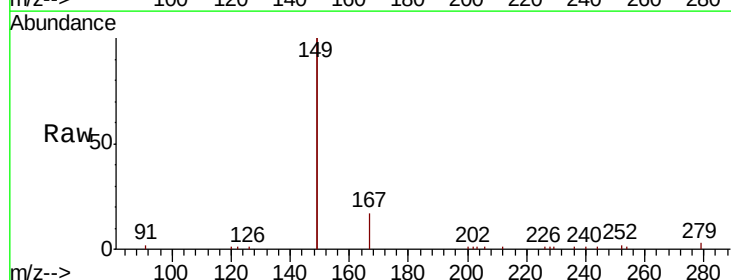
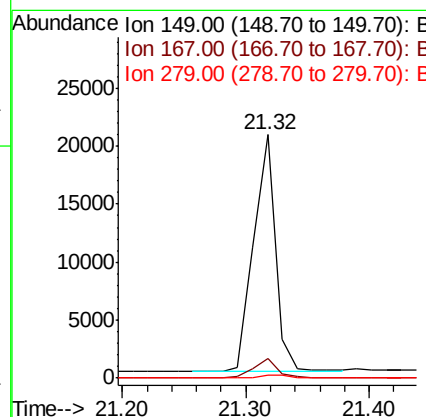
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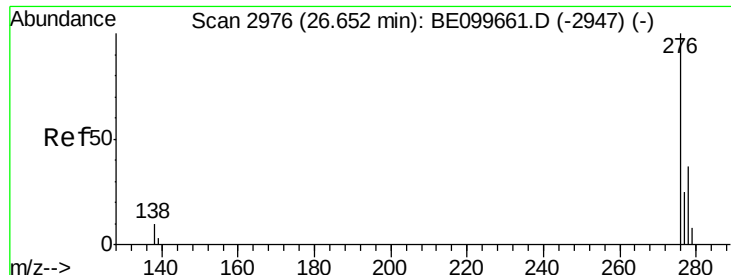
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#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.499 ng  
RT: 21.32 min Scan# 1626  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 7.8   | 6.2   | 9.4   |
| 279     | 1.4   | 1.2   | 1.8   |





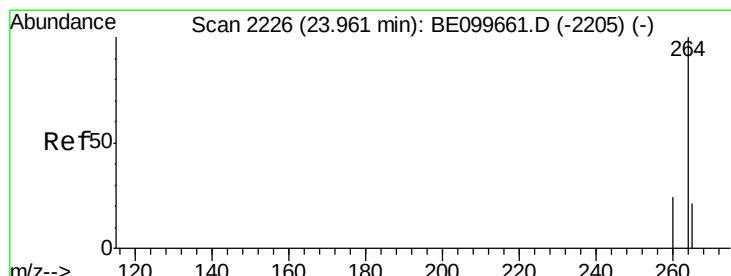
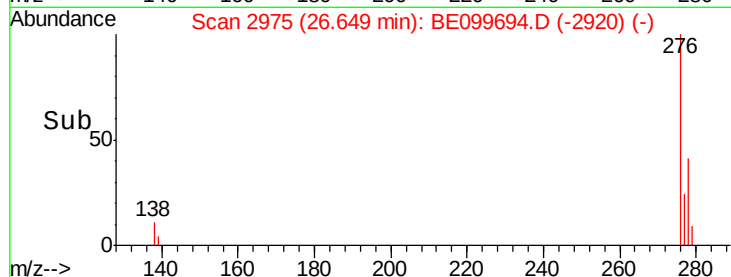
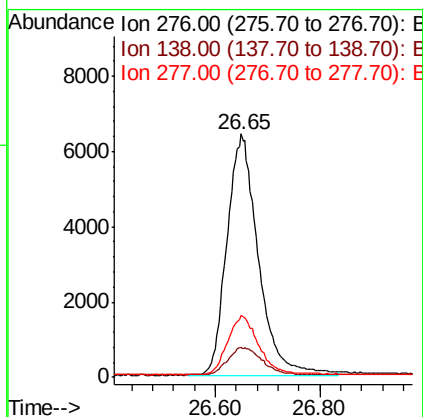
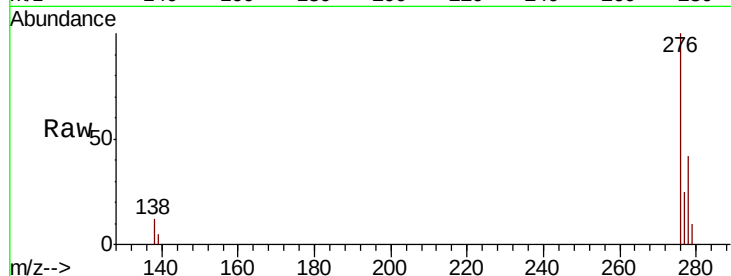
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.466 ng  
 RT: 26.65 min Scan# 2975  
 Delta R.T. -0.00 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.3  | 9.6   | 14.4  |
| 277     | 24.4  | 19.2  | 28.8  |

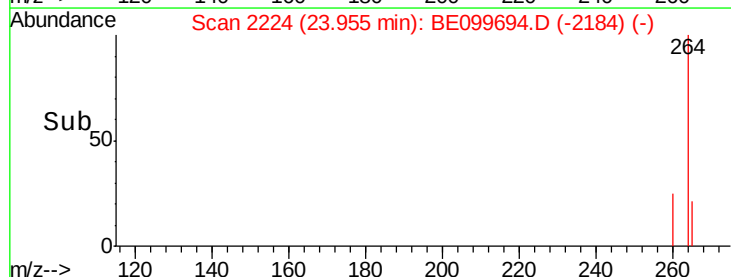
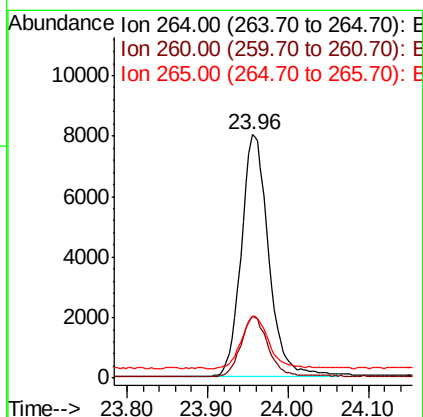
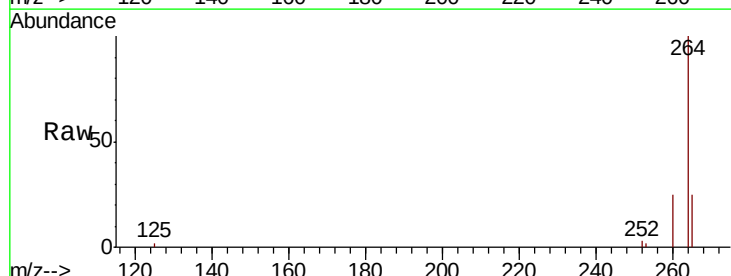
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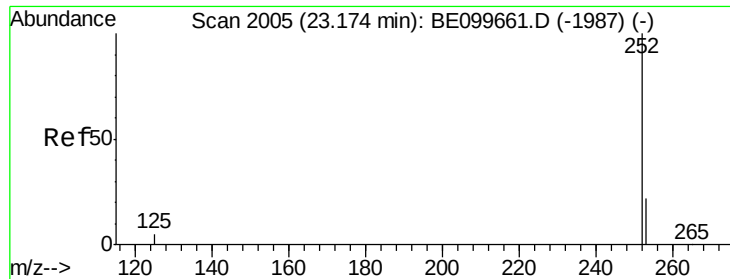
mohammad  
 5/23/2019 8:41:33 AM



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.96 min Scan# 2224  
 Delta R.T. -0.01 min  
 Lab File: BE099694.D  
 Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 19.6  | 29.4  |
| 265     | 25.4  | 19.1  | 28.7  |





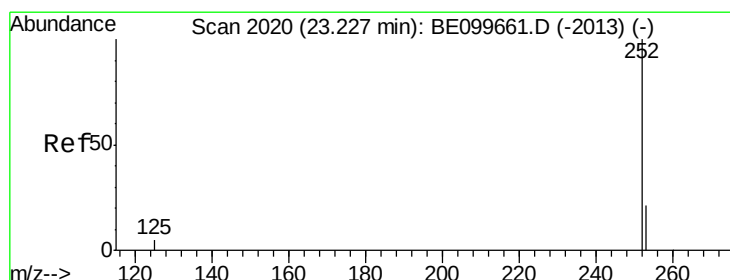
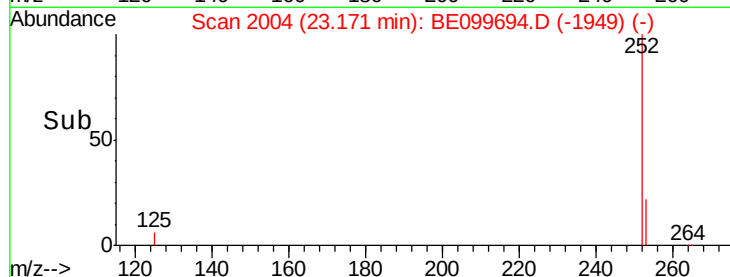
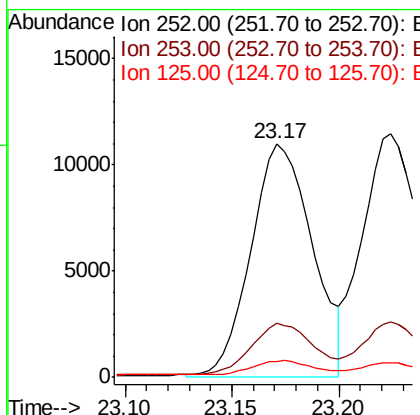
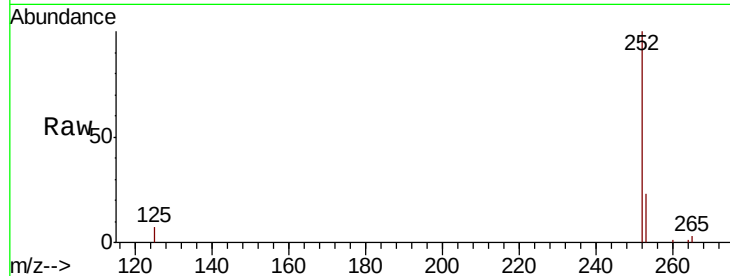
#35  
Benzo(b)fluoranthene  
Concen: 0.425 ng m  
RT: 23.17 min Scan# 2004  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.2  | 27.4  |
| 125     | 7.0   | 4.5   | 6.7   |

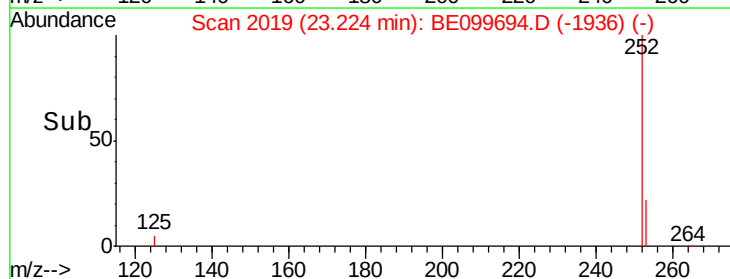
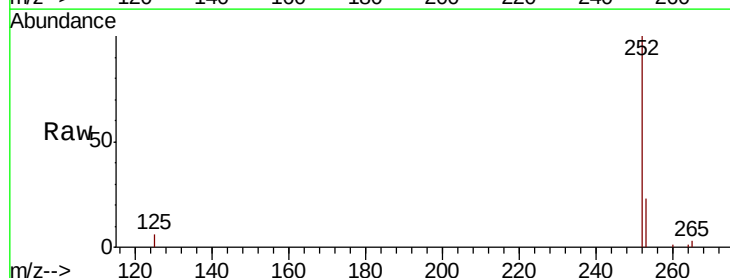
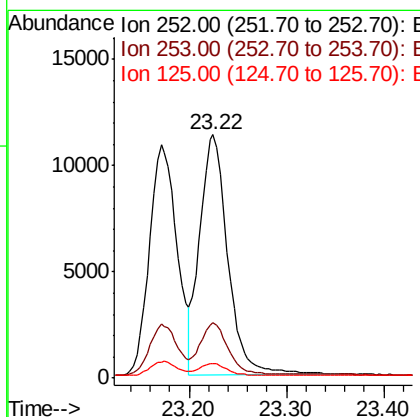
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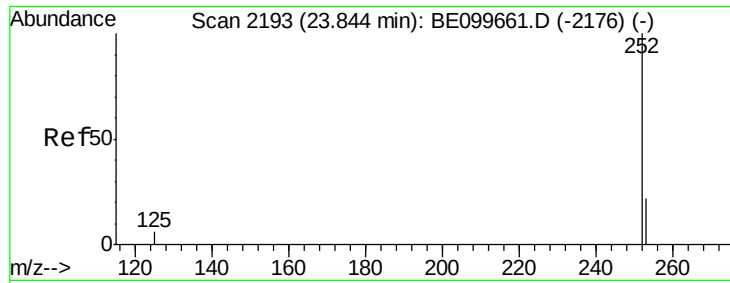
mohammad  
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#36  
Benzo(k)fluoranthene  
Concen: 0.421 ng  
RT: 23.22 min Scan# 2019  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.8  | 26.8  |
| 125     | 5.9   | 4.6   | 6.8   |





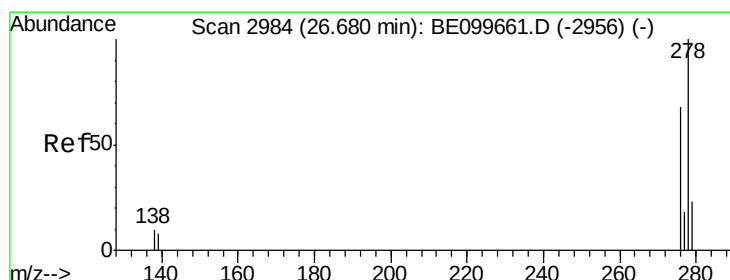
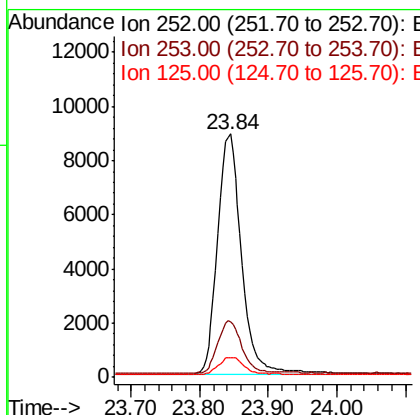
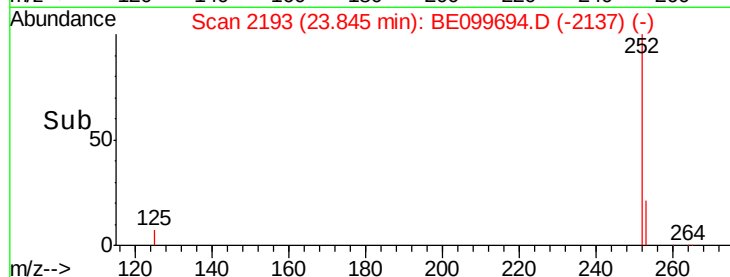
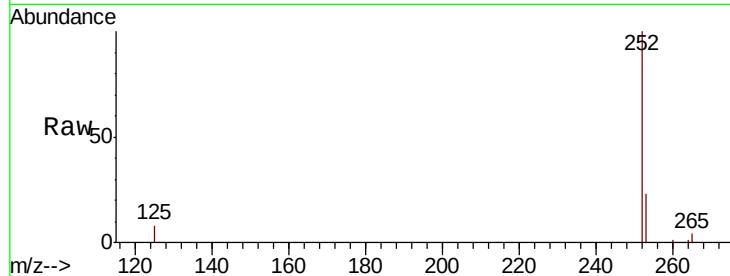
#37  
Benzo(a)pyrene  
Concen: 0.440 ng  
RT: 23.84 min Scan# 2193  
Delta R.T. 0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB119824BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.9  | 28.3  |
| 125     | 8.1   | 5.4   | 8.0   |

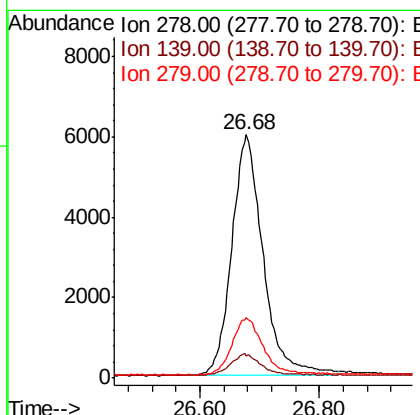
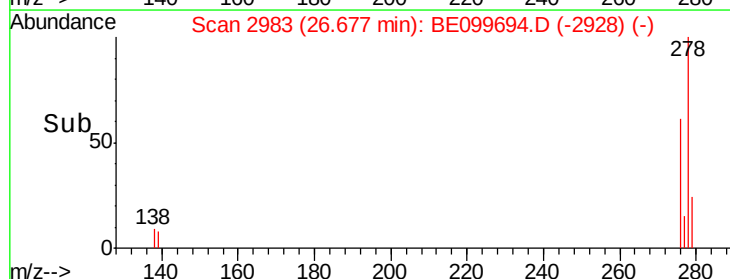
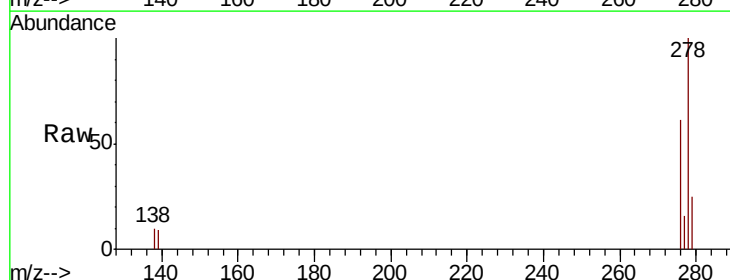
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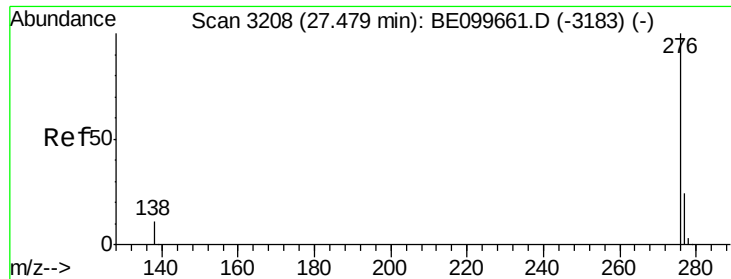
mohammad  
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.419 ng  
RT: 26.68 min Scan# 2983  
Delta R.T. -0.00 min  
Lab File: BE099694.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 9.2   | 6.9   | 10.3  |
| 279     | 24.9  | 19.2  | 28.8  |





#39

Benzo(a,h,i)perylene

Concen: 0.430 ng

RT: 27.48 min Scan# 3209

Delta R.T. 0.00 min

Lab File: BE099694.D

Acq: 21 May 2019 18:07

Instrument :

BNA\_E

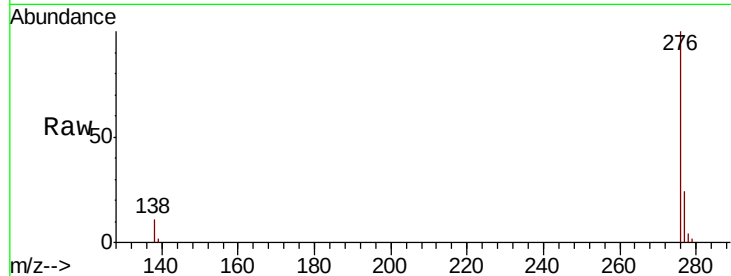
ClientSampleId :

PB119824BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 22663 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.1  | 19.8  | 29.6  |
| 138       | 11.1  | 9.2   | 13.8  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

