

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\  
 Data File : BE100133.D  
 Acq On : 21 Jun 2019 13:16  
 Operator : JU/SJ  
 Sample : K3428-20MS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-084-B045-061319MS

Manual Integrations  
 APPROVED

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 6/25/2019 3:20:57 PM

Quant Time: Jun 22 02:15:53 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061919.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 19 15:07:24 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 565      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 2028     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.40 | 164  | 1832     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.15 | 188  | 6587     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.34 | 240  | 9177     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.84 | 264  | 10177    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |      |      |    |       |
|-----------------------------|-------|-----|------|------|----|-------|
| 4) 2-Fluorophenol           | 5.30  | 112 | 568  | 0.48 | ng | 0.00  |
| 5) Phenol-d6                | 6.91  | 99  | 728  | 0.45 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.91  | 82  | 770  | 0.39 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.12 | 152 | 400  | 0.10 | ng | -0.03 |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330 | 478  | 0.47 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.03 | 172 | 2802 | 0.39 | ng | -0.02 |
| 25) Fluoranthene-d10        | 19.19 | 212 | 3015 | 0.03 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.79 | 244 | 8186 | 0.45 | ng | -0.02 |

#### Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.19  | 88  | 240    | 0.265 | ng | # 65   |
| 3) n-Nitrosodimethylamine      | 3.53  | 42  | 142m   | 0.580 | ng |        |
| 6) bis(2-Chloroethyl)ether     | 7.16  | 93  | 577    | 0.381 | ng | # 72   |
| 9) Naphthalene                 | 10.57 | 128 | 8628   | 0.392 | ng | 99     |
| 10) Hexachlorobutadiene        | 10.85 | 225 | 618    | 0.285 | ng | 98     |
| 12) 2-Methylnaphthalene        | 12.22 | 142 | 1485   | 0.410 | ng | 95     |
| 16) Acenaphthylene             | 14.12 | 152 | 3669   | 0.422 | ng | 98     |
| 17) Acenaphthene               | 14.47 | 154 | 1813   | 0.373 | ng | 96     |
| 18) Fluorene                   | 15.45 | 166 | 2965   | 0.409 | ng | 97     |
| 20) 4-Bromophenyl-phenylether  | 16.34 | 248 | 1317   | 0.336 | ng | 94     |
| 21) Hexachlorobenzene          | 16.45 | 284 | 1244   | 0.288 | ng | 97     |
| 22) Pentachlorophenol          | 16.81 | 266 | 760    | 0.784 | ng | 84     |
| 23) Phenanthrene               | 17.20 | 178 | 9701   | 0.615 | ng | 99     |
| 24) Anthracene                 | 17.30 | 178 | 5647   | 0.424 | ng | 97     |
| 26) Fluoranthene               | 19.22 | 202 | 17581  | 0.694 | ng | 99     |
| 28) Pyrene                     | 19.58 | 202 | 20064  | 0.851 | ng | 98     |
| 30) Benzo(a)anthracene         | 21.32 | 228 | 17831  | 0.653 | ng | 100    |
| 31) Chrysene                   | 21.38 | 228 | 17470  | 0.551 | ng | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.24 | 149 | 19042  | 0.739 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.47 | 276 | 12867  | 0.360 | ng | # 96   |
| 35) Benzo(b)fluoranthene       | 23.06 | 252 | 16537m | 0.554 | ng |        |
| 36) Benzo(k)fluoranthene       | 23.11 | 252 | 14038  | 0.413 | ng | 99     |
| 37) Benzo(a)pyrene             | 23.72 | 252 | 13951  | 0.484 | ng | 98     |
| 38) Dibenzo(a,h)anthracene     | 26.49 | 278 | 8596   | 0.291 | ng | 99     |
| 39) Benzo(g,h,i)perylene       | 27.28 | 276 | 12104  | 0.394 | ng | 98     |

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

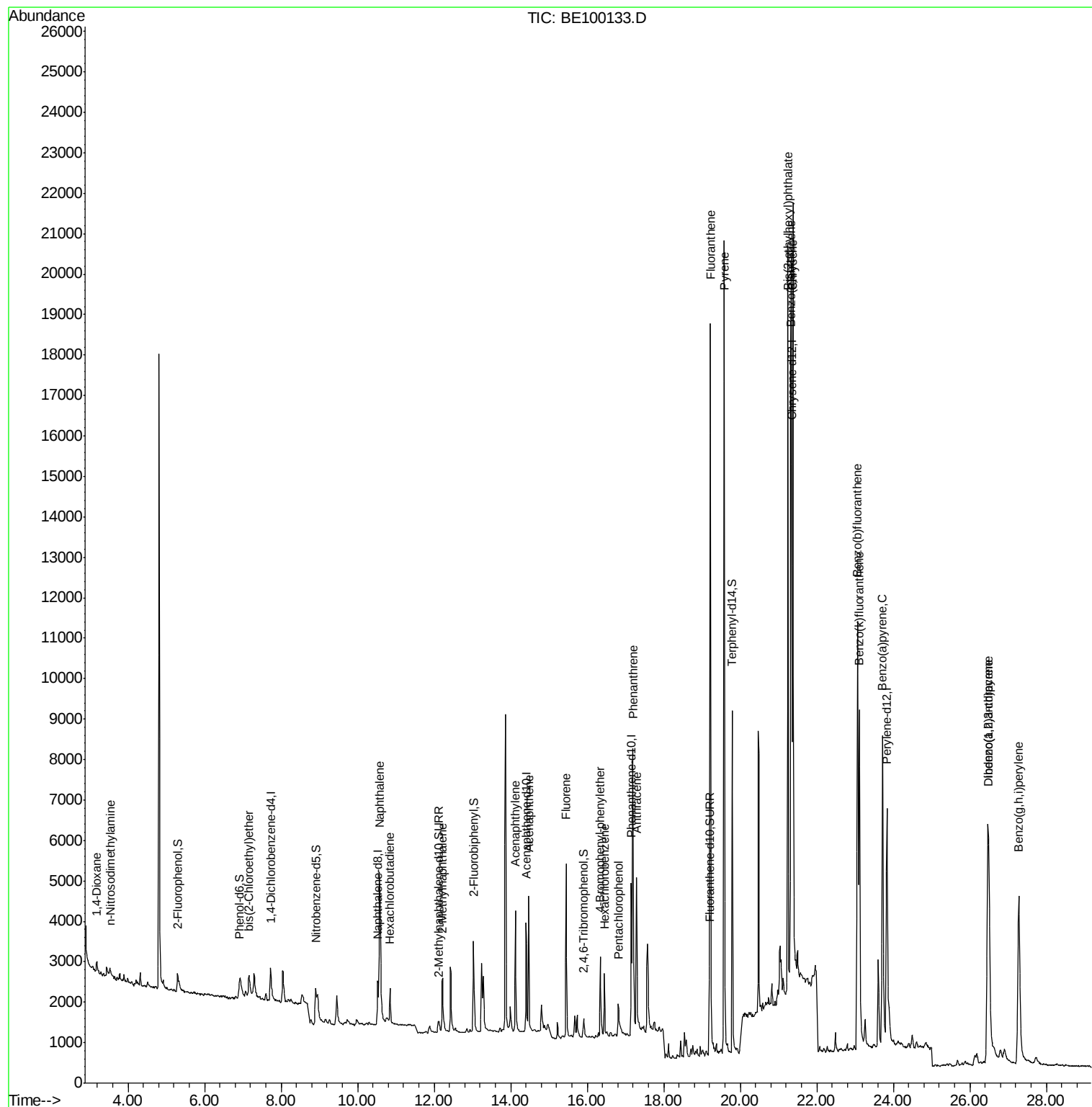
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\  
Data File : BE100133.D  
Acq On : 21 Jun 2019 13:16  
Operator : JU/SJ  
Sample : K3428-20MS  
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ALS Vial : 4 Sample Multiplier: 1

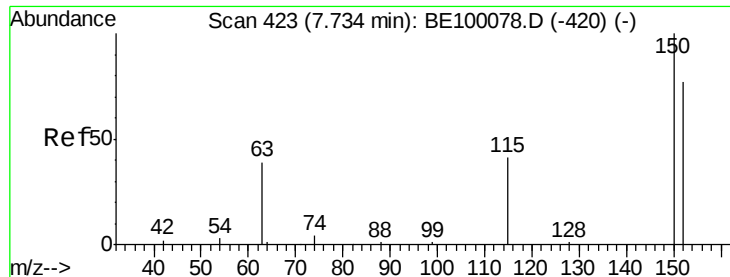
Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

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Quant Time: Jun 22 02:15:53 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 19 15:07:24 2019  
Response via : Initial Calibration





#1

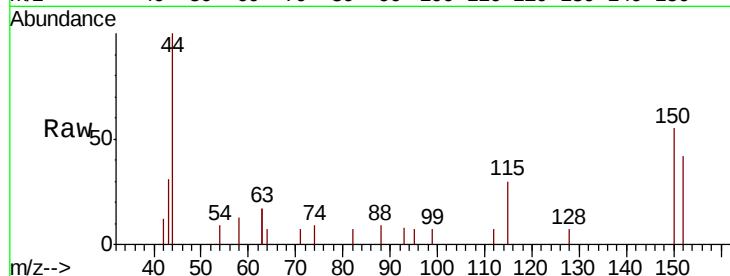
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.73 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 129.3 | 99.8  | 149.8 |
| 115     | 71.3  | 51.3  | 76.9  |

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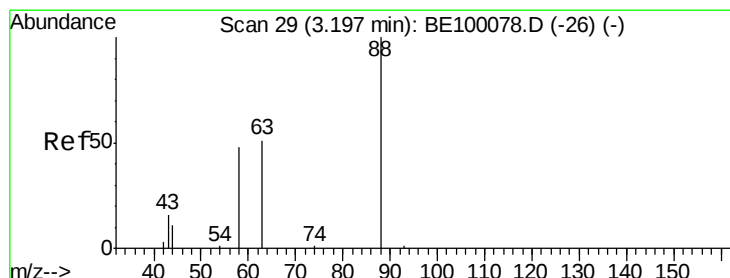
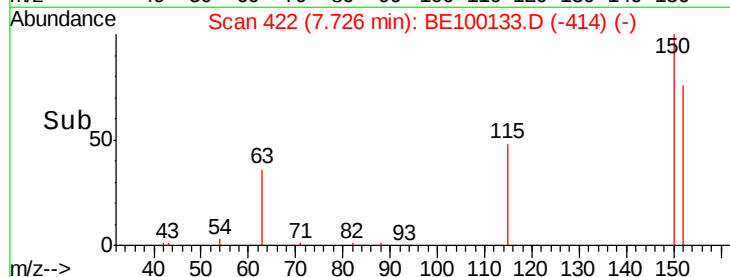
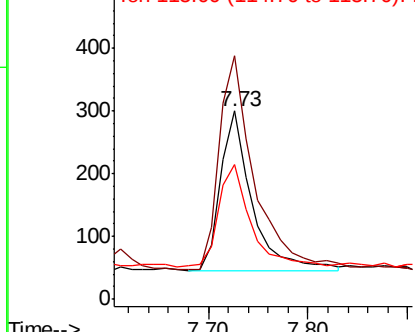


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

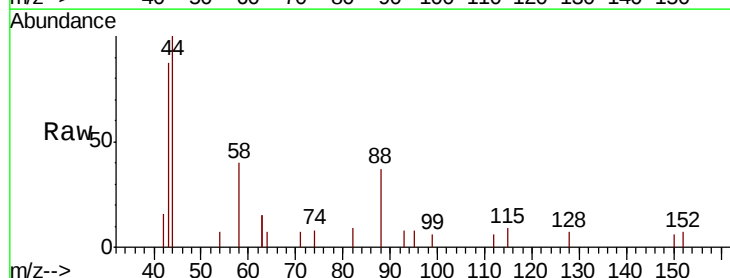
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 0.265 ng  
RT: 3.19 min Scan# 28  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 85.0  | 51.1  | 76.7# |
| 43      | 0.0   | 21.7  | 32.5# |

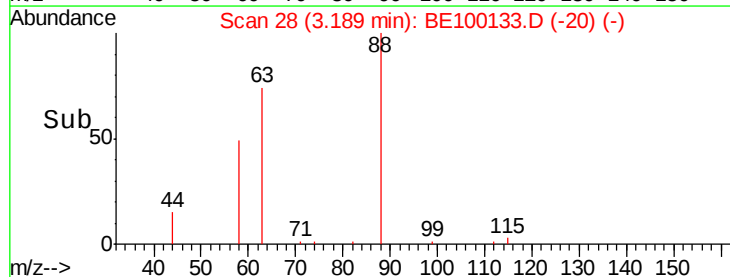
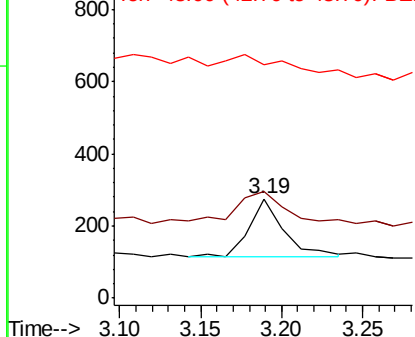


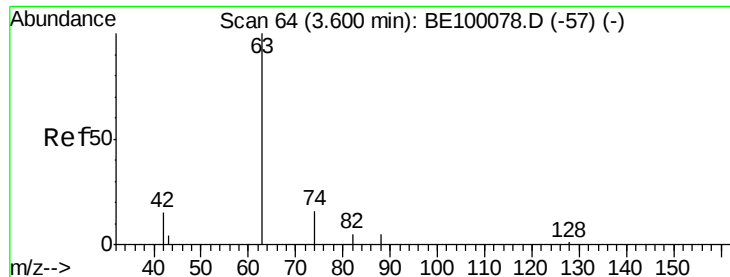
Abundance

Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1





#3

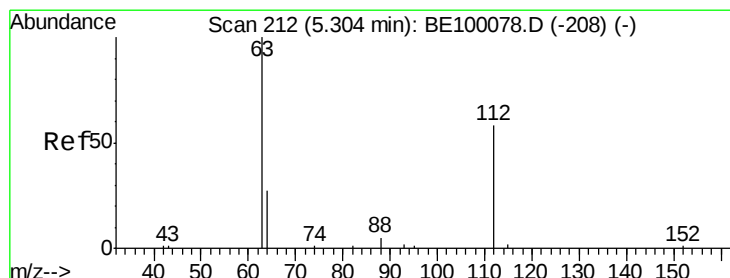
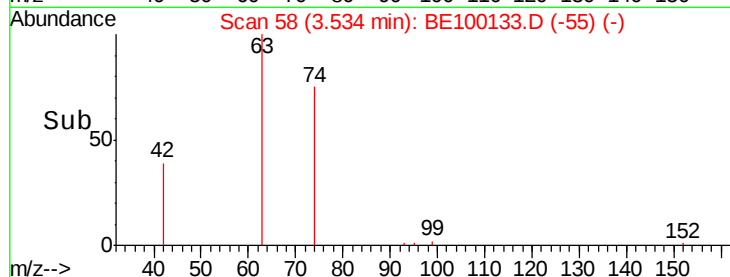
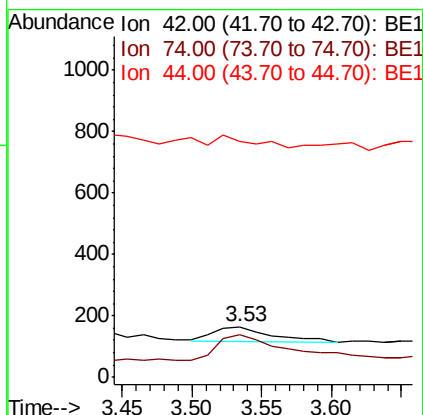
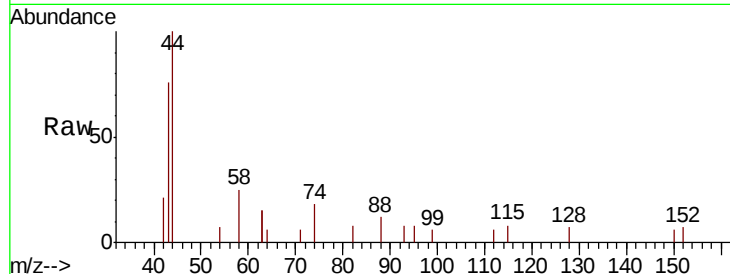
n-Nitrosodimethylamine  
Concen: 0.580 ng/ml  
RT: 3.53 min Scan# 58  
Delta R.T. -0.06 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

| Tot Ion | 42    | Resp  | 142   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 42      | 100   |       |       |
| 74      | 0.0   | 0.0   | 0.0   |
| 44      | 0.0   | 0.0   | 0.0   |

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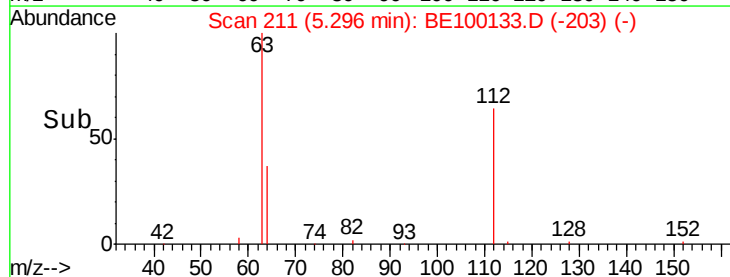
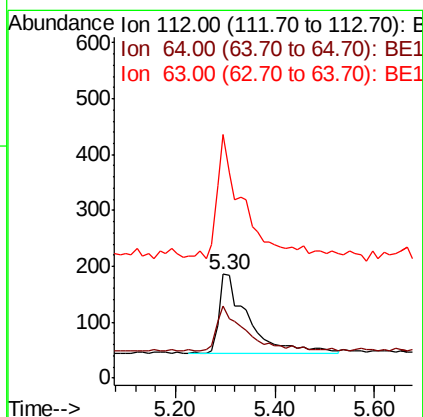
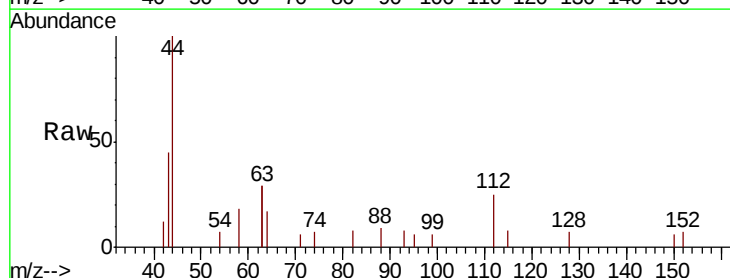
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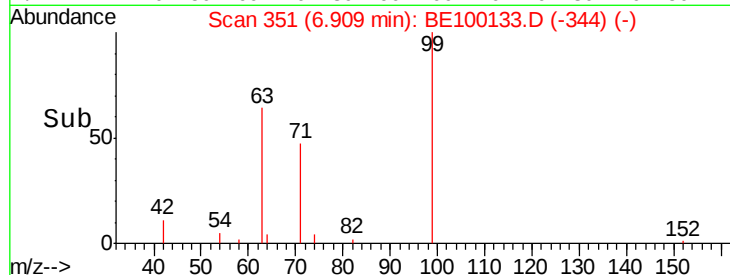
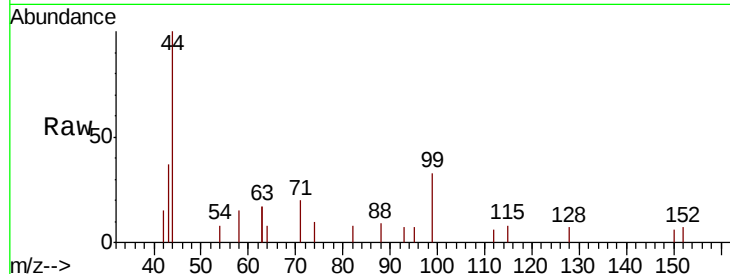
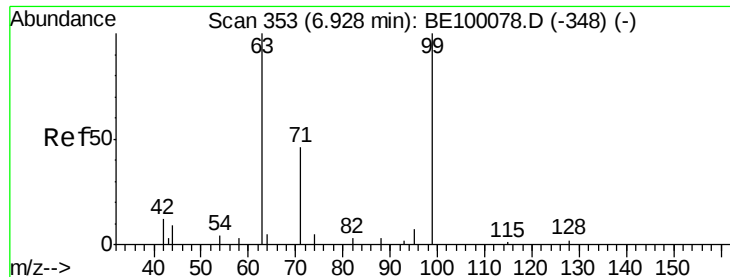


#4

2-Fluorophenol  
Concen: 0.484 ng  
RT: 5.30 min Scan# 211  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | 112   | Resp  | 568   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 112     | 100   |       |       |
| 64      | 51.8  | 22.0  | 33.0# |
| 63      | 125.5 | 121.8 | 182.6 |





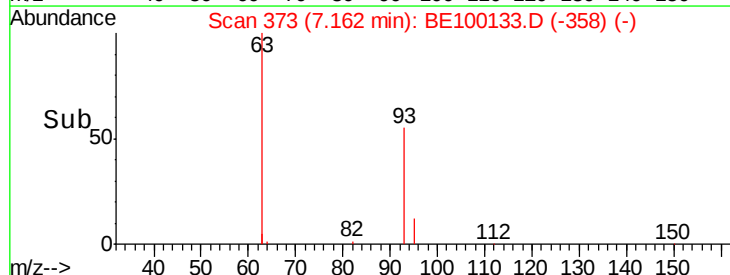
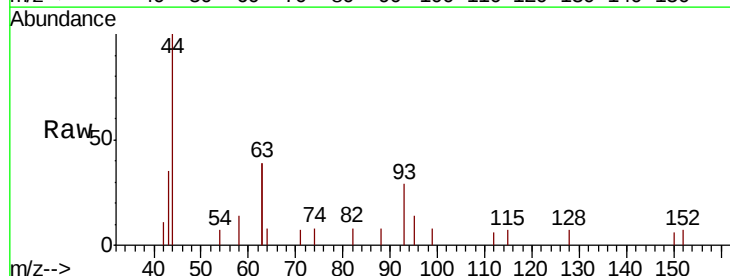
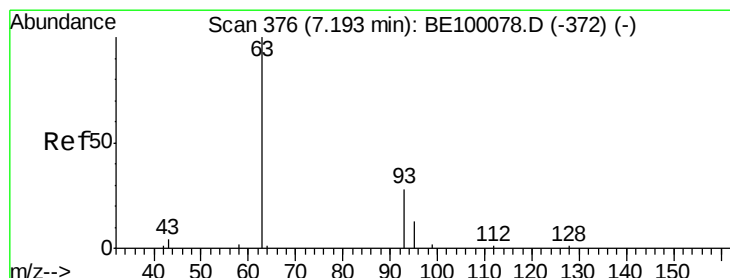
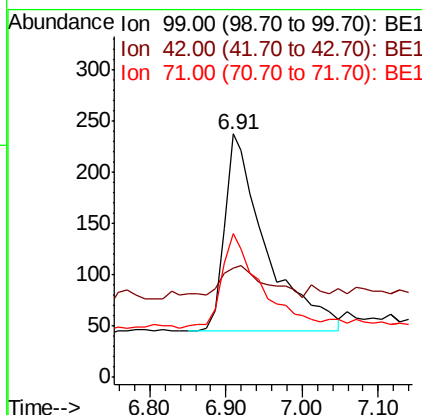
#5  
Phenol-d6  
Concen: 0.452 ng  
RT: 6.91 min Scan# 351  
Delta R.T. -0.02 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 16.5  | 0.0   | 0.0#  |
| 71      | 45.1  | 37.6  | 56.4  |

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

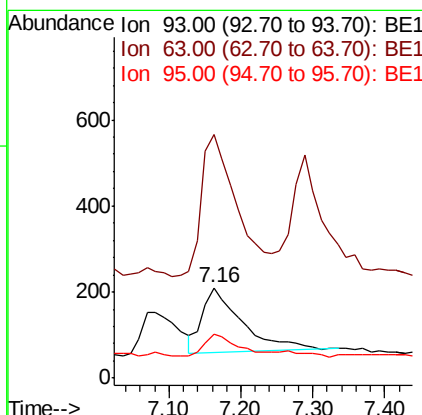
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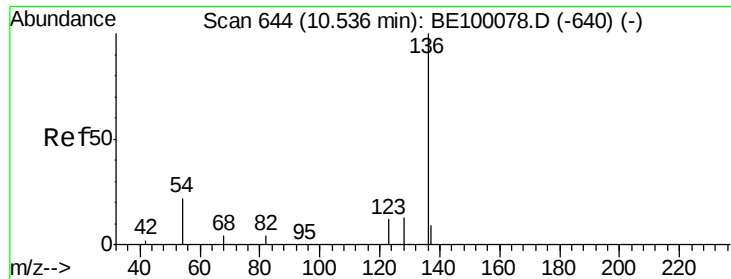
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#6  
bis(2-Chloroethyl)ether  
Concen: 0.381 ng  
RT: 7.16 min Scan# 373  
Delta R.T. -0.03 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 93      | 100   |       |        |
| 63      | 196.4 | 200.0 | 300.0# |
| 95      | 26.9  | 24.0  | 36.0   |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 644

Delta R.T. -0.00 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

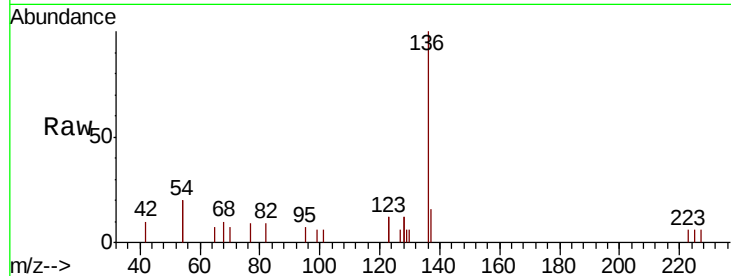
ClientSampleId :

PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 15.9  | 11.6  | 17.4  |
| 54      | 40.4  | 33.9  | 50.9  |
| 68      | 9.8   | 7.8   | 11.8  |

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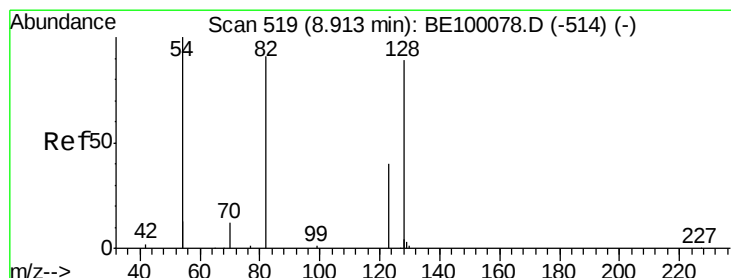
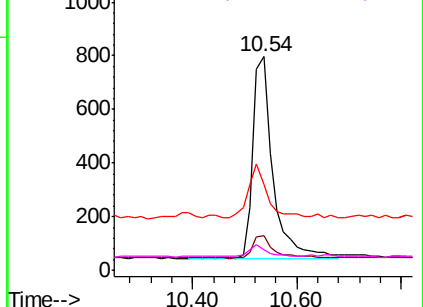
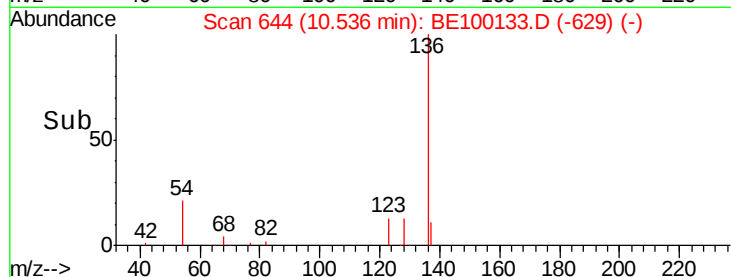


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.391 ng

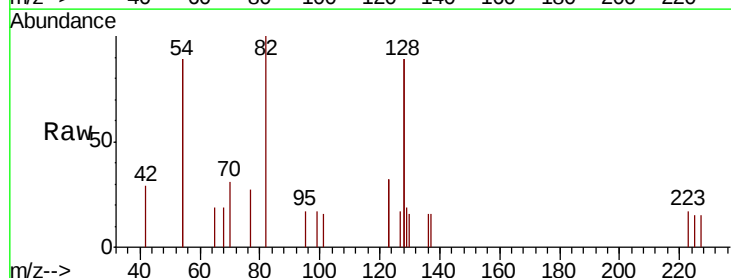
RT: 8.91 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

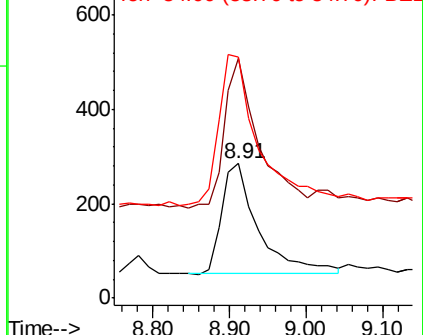
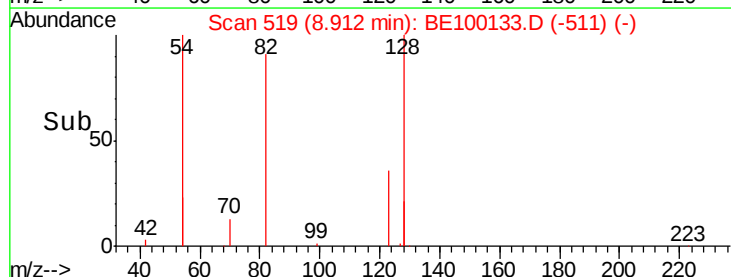
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 178.2 | 128.0 | 192.0 |
| 54      | 178.9 | 143.4 | 215.0 |

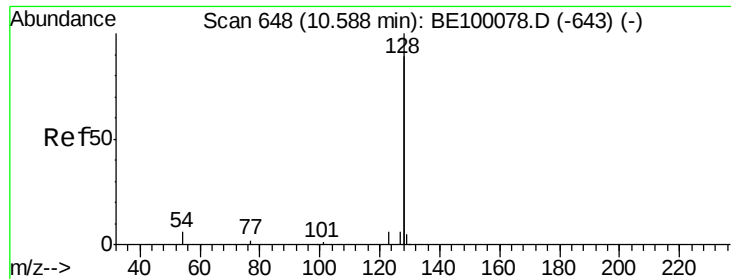


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.392 ng

RT: 10.57 min Scan# 647

Delta R.T. -0.01 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

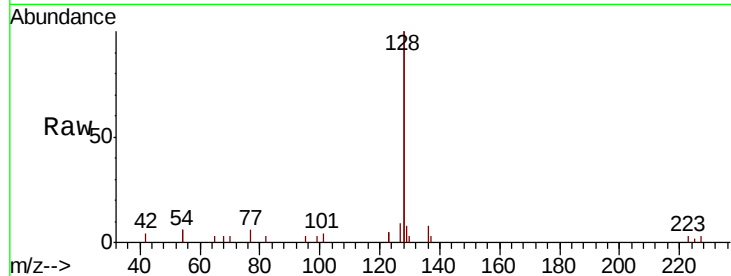
ClientSampleId :

PST-084-B045-061319MS

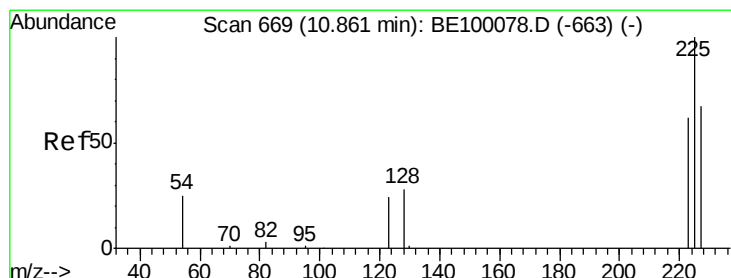
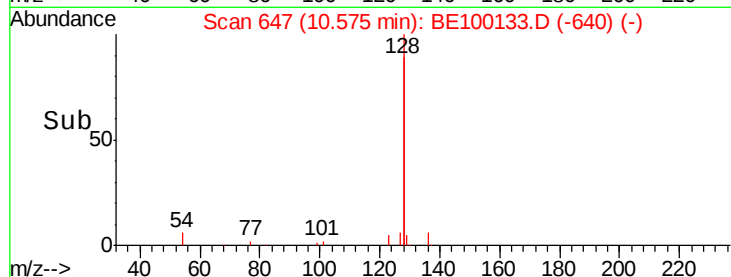
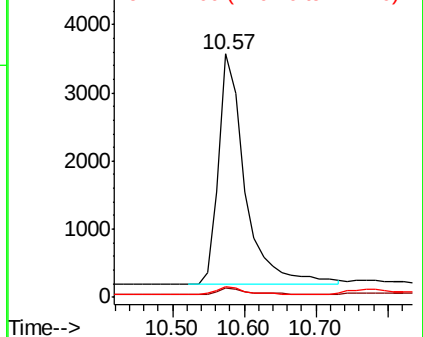
|             |       |       |
|-------------|-------|-------|
| Tot Ion:128 | Resp: | 8628  |
| Ion Ratio   | Lower | Upper |
| 128 100     |       |       |
| 129 3.8     | 3.1   | 4.7   |
| 127 4.5     | 3.4   | 5.2   |

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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.285 ng

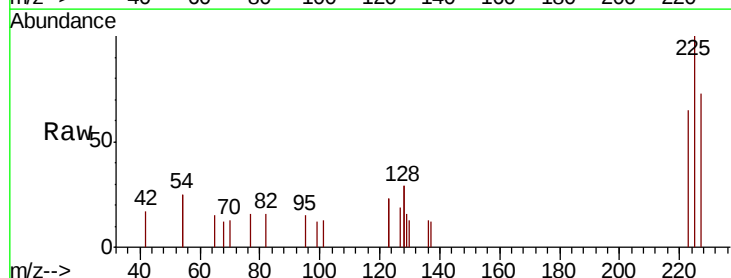
RT: 10.85 min Scan# 668

Delta R.T. -0.01 min

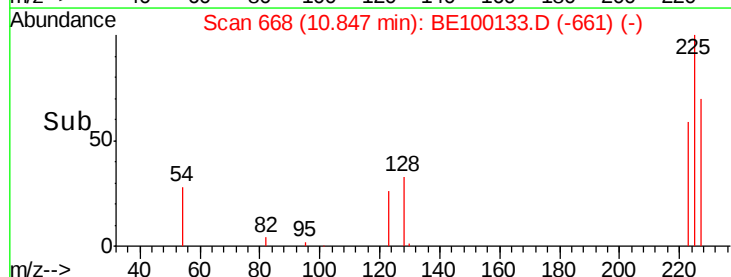
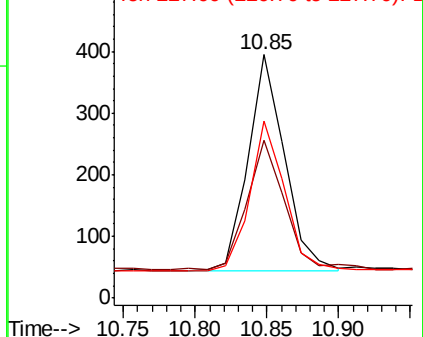
Lab File: BE100133.D

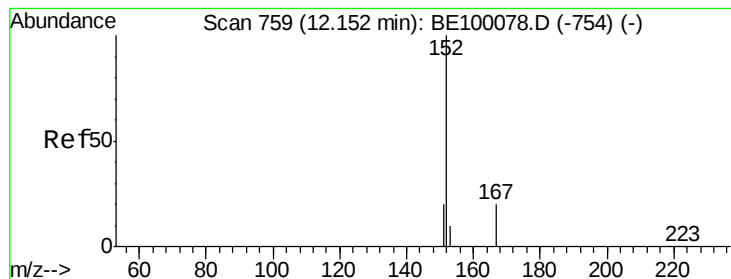
Acq: 21 Jun 2019 13:16

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:225 | Resp: | 618   |
| Ion Ratio   | Lower | Upper |
| 225 100     |       |       |
| 223 62.1    | 52.2  | 78.4  |
| 227 66.8    | 53.0  | 79.6  |



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





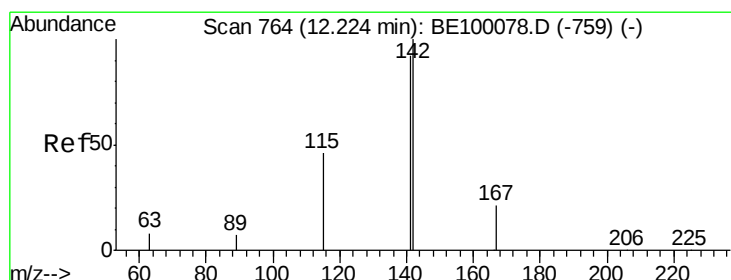
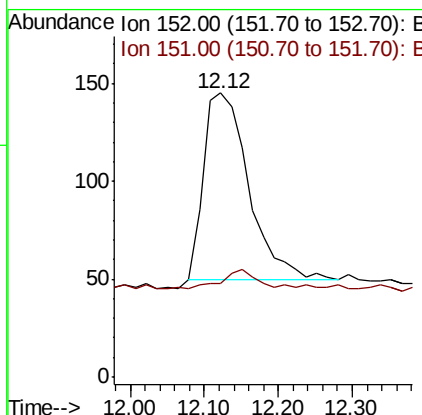
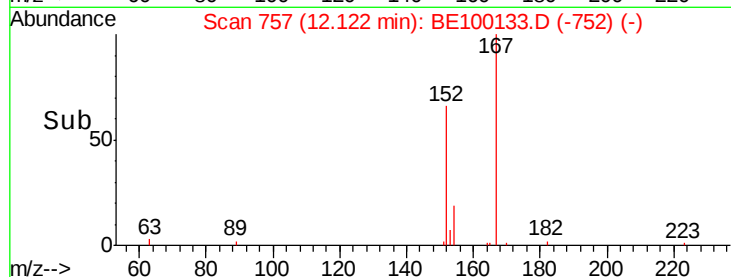
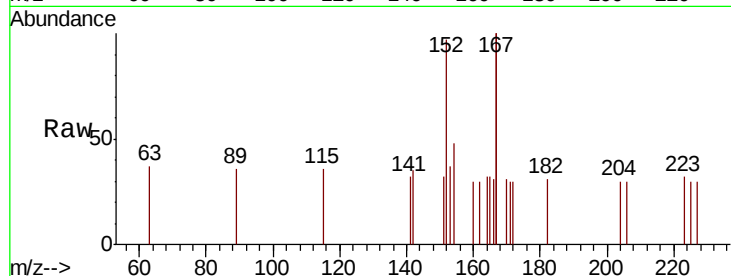
#11  
2-Methylnaphthalene-d10  
Concen: 0.104 ng  
RT: 12.12 min Scan# 757  
Delta R.T. -0.03 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

Tot Ion:152 Resp: 400  
Ion Ratio Lower Upper  
152 100  
151 0.0 16.3 24.5#

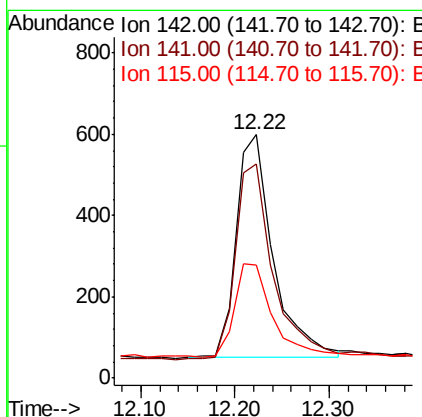
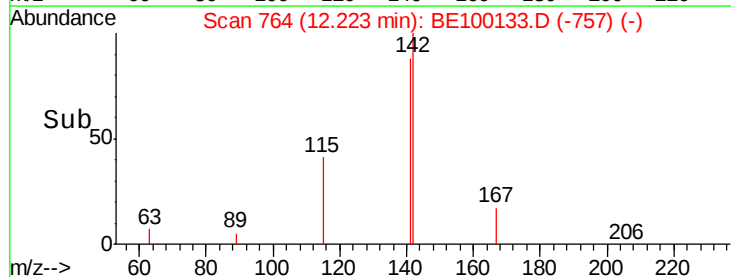
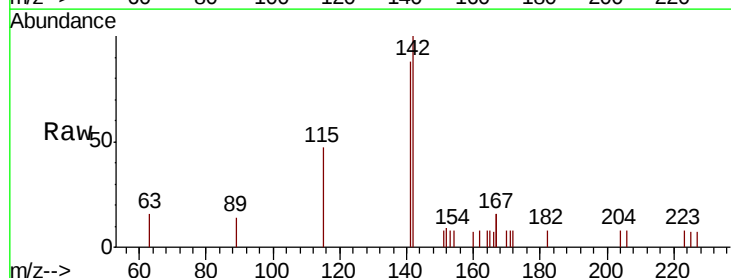
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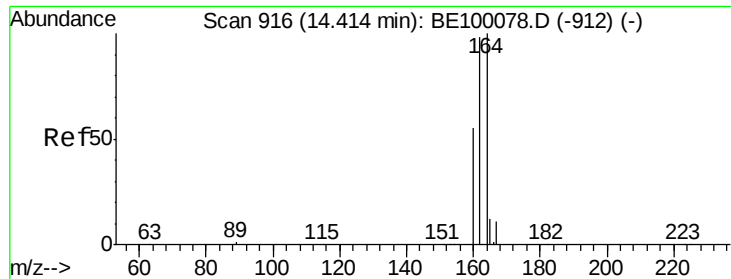
mohammad  
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#12  
2-Methylnaphthalene  
Concen: 0.410 ng  
RT: 12.22 min Scan# 764  
Delta R.T. -0.00 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Tgt Ion:142 Resp: 1485  
Ion Ratio Lower Upper  
142 100  
141 88.1 74.1 111.1  
115 46.6 40.9 61.3





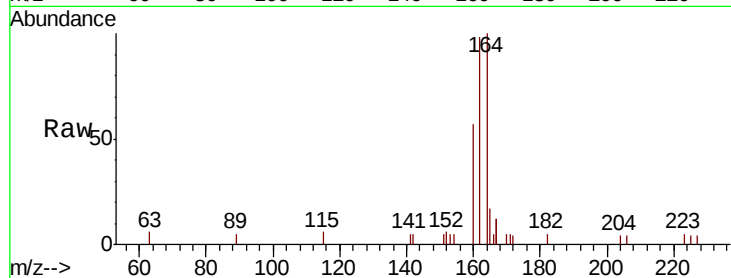
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.40 min Scan# 915  
Delta R.T. -0.02 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 97.9  | 78.2  | 117.2 |
| 160     | 56.9  | 45.6  | 68.4  |

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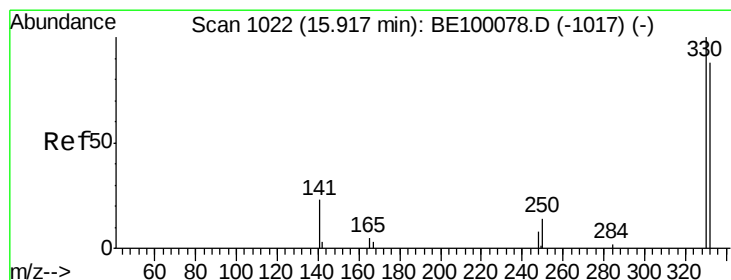
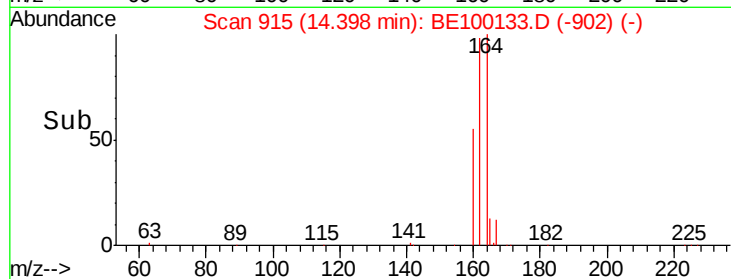
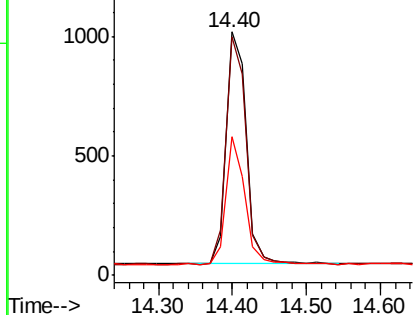


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14  
2,4,6-Tribromophenol  
Concen: 0.472 ng  
RT: 15.90 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

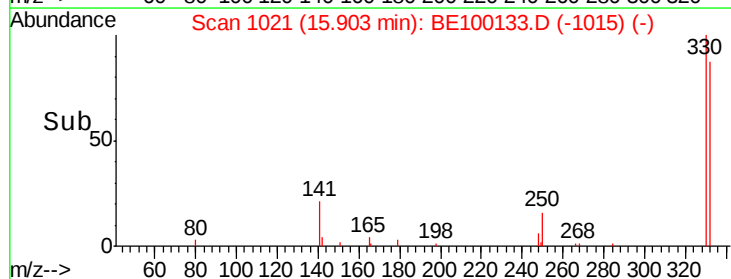
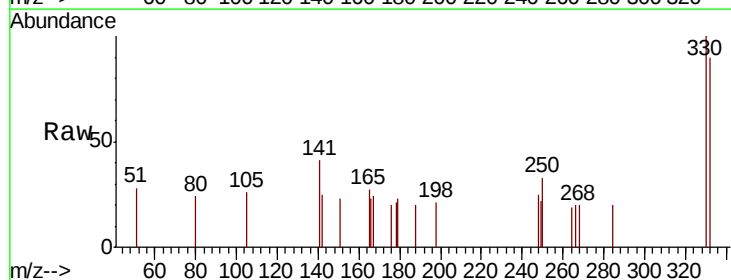
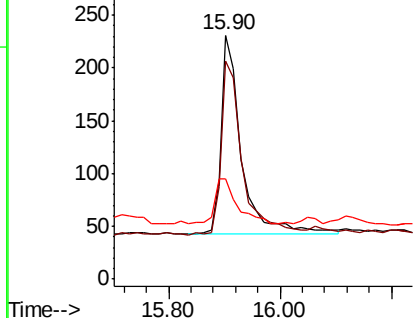
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 91.6  | 73.3  | 109.9 |
| 141     | 23.6  | 22.2  | 33.2  |

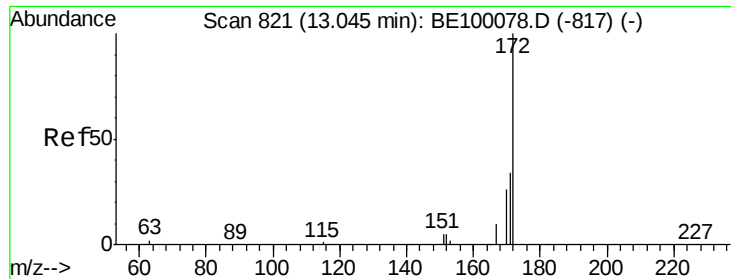
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





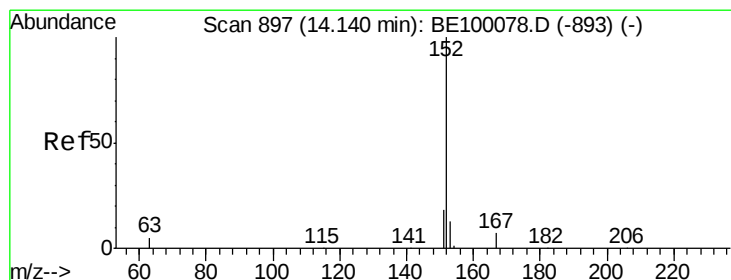
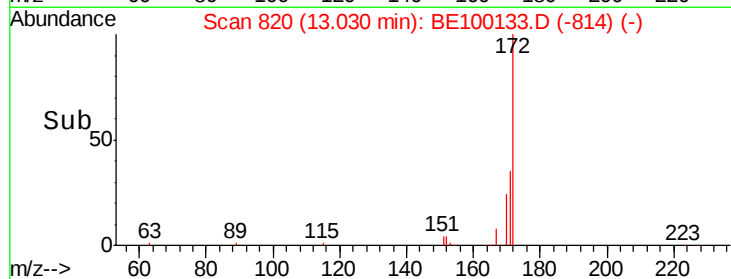
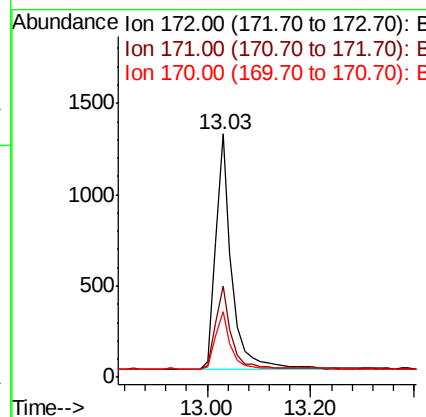
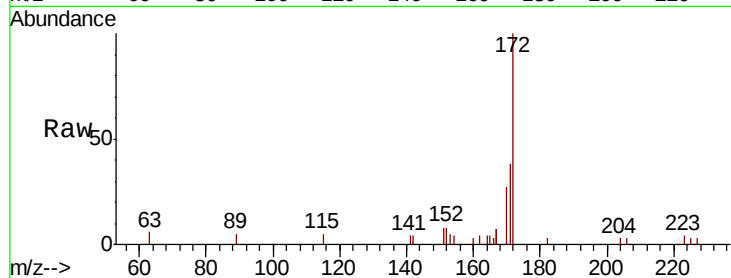
#15  
2-Fluorobiphenyl  
Concen: 0.389 ng  
RT: 13.03 min Scan# 820  
Delta R.T. -0.02 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.5  | 29.8  | 44.8  |
| 170     | 26.9  | 23.2  | 34.8  |

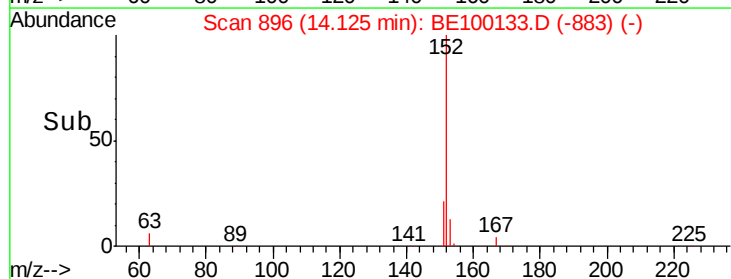
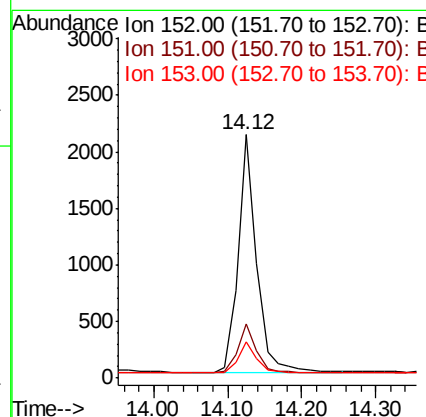
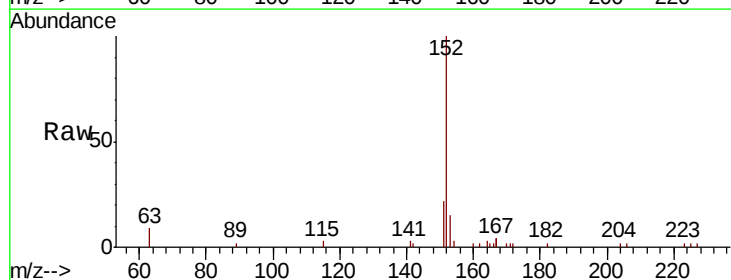
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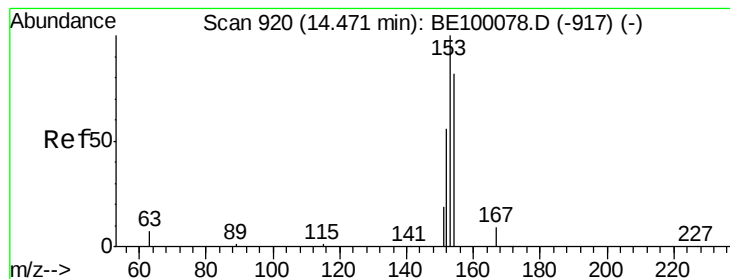
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#16  
Acenaphthylene  
Concen: 0.422 ng  
RT: 14.12 min Scan# 896  
Delta R.T. -0.02 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.9  | 15.9  | 23.9  |
| 153     | 13.3  | 10.1  | 15.1  |





#17

Acenaphthene

Concen: 0.373 ng

RT: 14.47 min Scan# 920

Delta R.T. -0.00 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

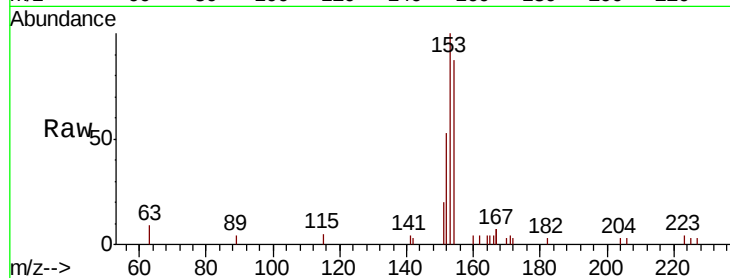
ClientSampleId :

PST-084-B045-061319MS

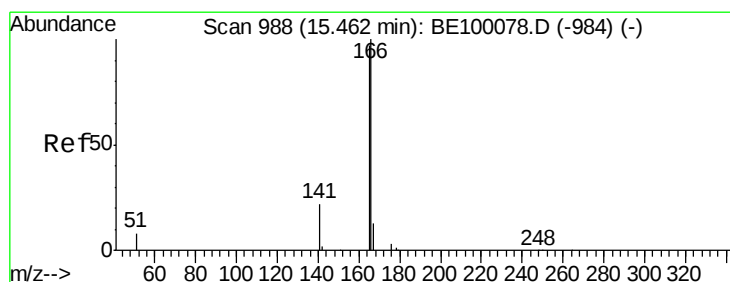
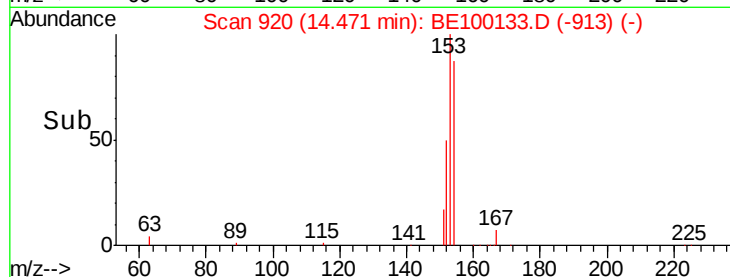
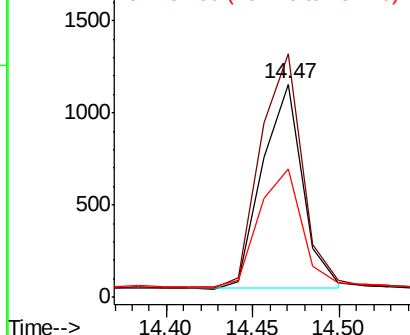
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 1813  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 119.1 | 95.5  | 143.3 |
| 152       | 61.1  | 54.9  | 82.3  |

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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: 0.409 ng

RT: 15.45 min Scan# 987

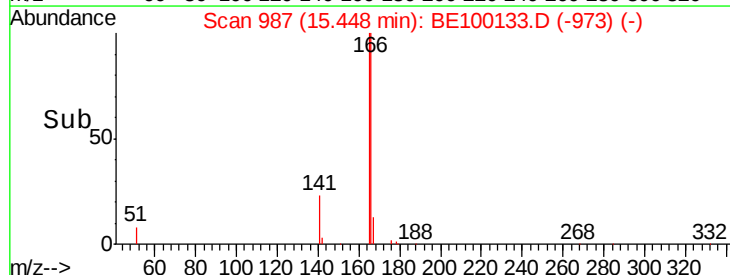
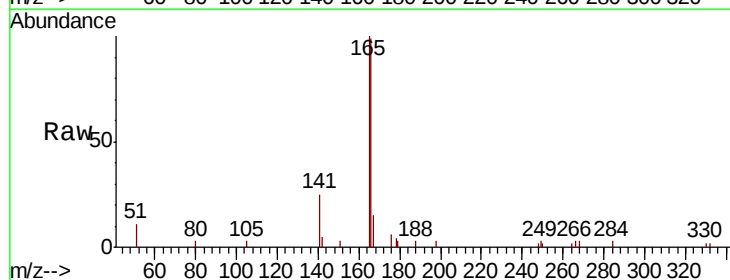
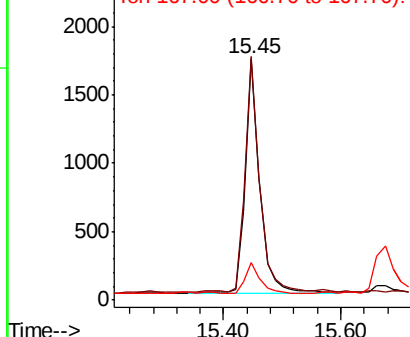
Delta R.T. -0.01 min

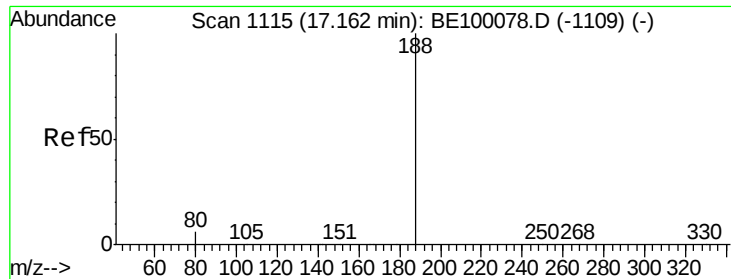
Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 2965  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 102.9 | 79.8  | 119.8 |
| 167       | 13.3  | 10.2  | 15.4  |

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





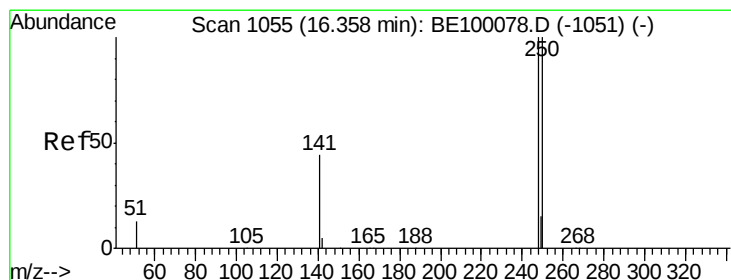
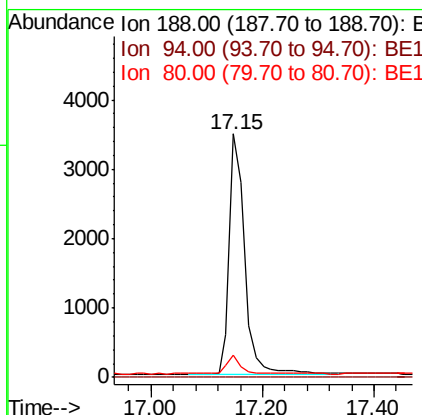
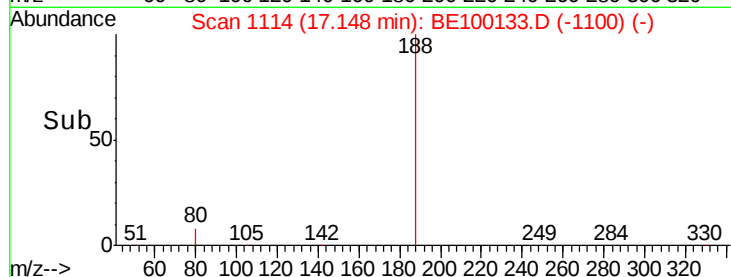
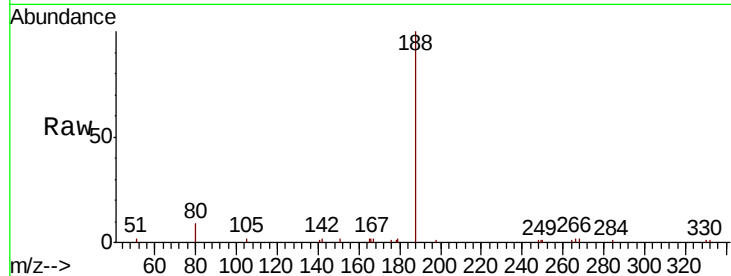
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.15 min Scan# 1114  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 6587 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 9.2   | 6.3   | 9.5  |

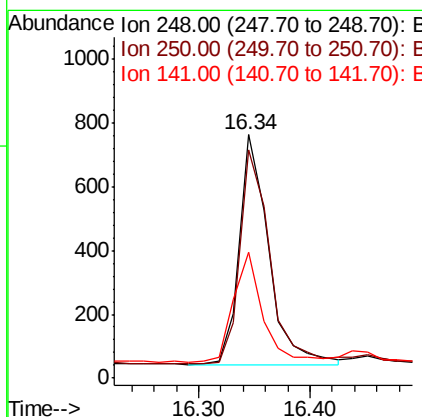
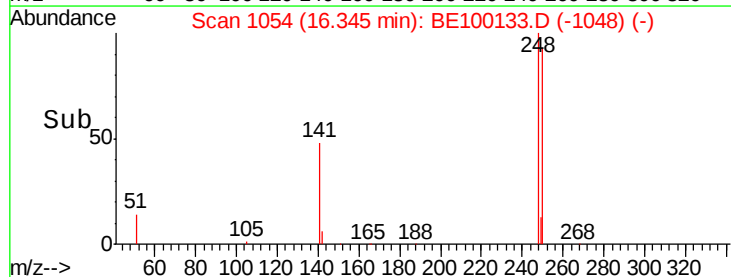
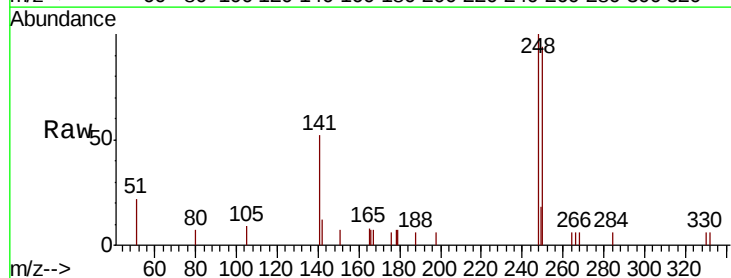
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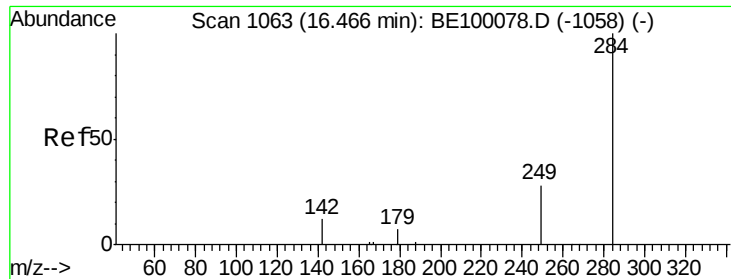
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#20  
4-Bromophenyl-phenylether  
Concen: 0.336 ng  
RT: 16.34 min Scan# 1054  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1317  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 93.7  | 80.6  | 120.8 |
| 141       | 51.8  | 38.8  | 58.2  |





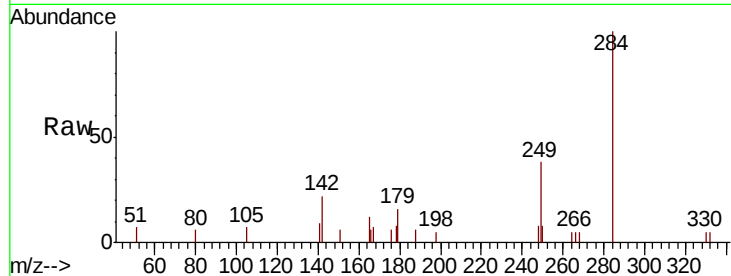
#21  
Hexachlorobenzene  
Concen: 0.288 ng  
RT: 16.45 min Scan# 1062  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

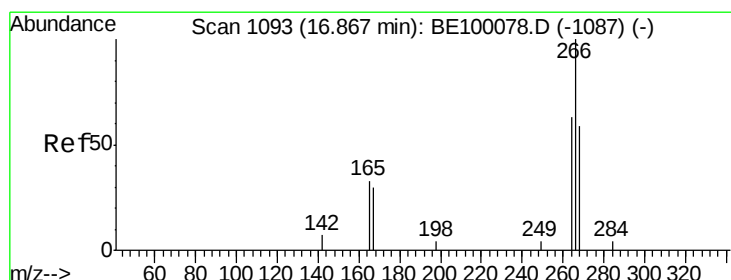
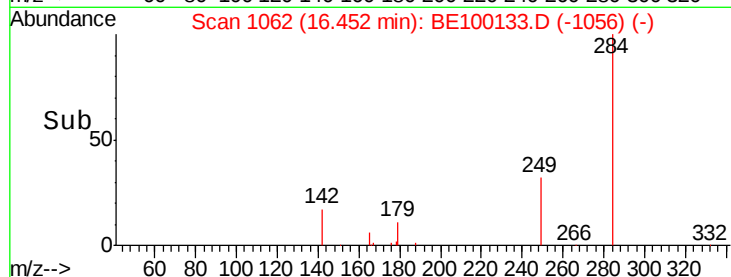
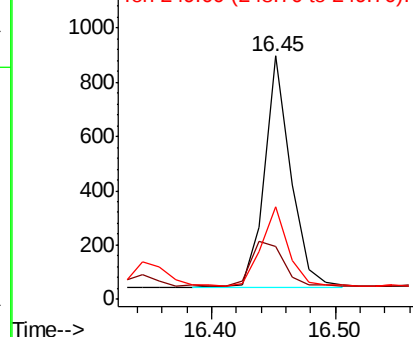
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 24.5  | 20.7  | 31.1  |
| 249     | 34.9  | 26.6  | 39.8  |

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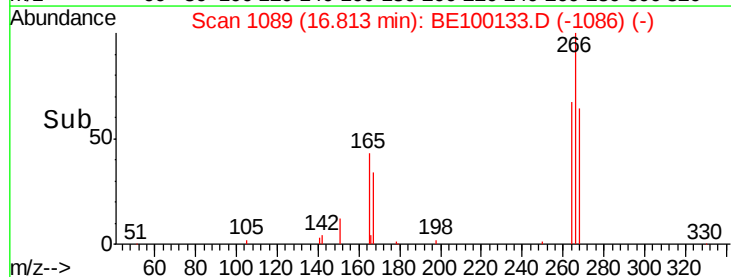
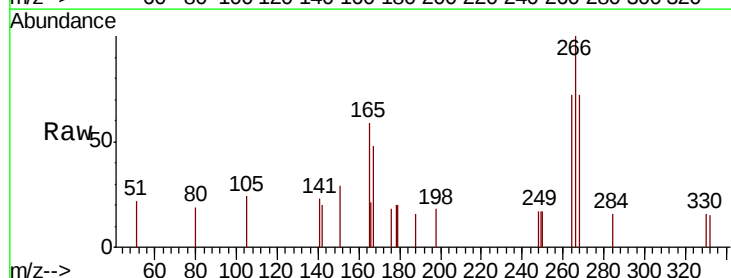
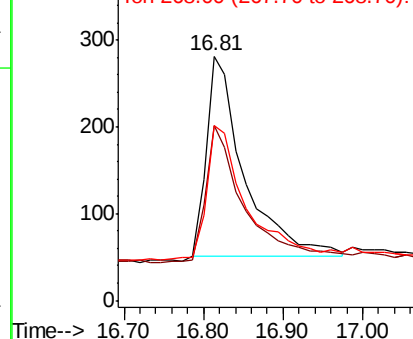
Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

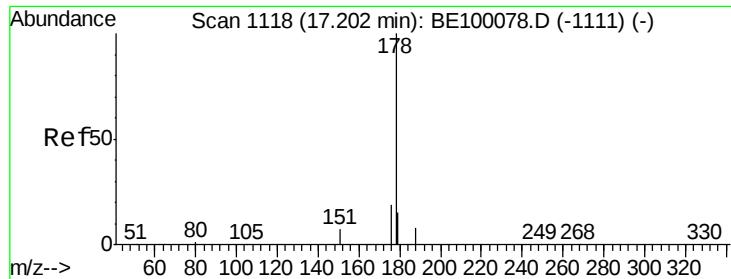


#22  
Pentachlorophenol  
Concen: 0.784 ng  
RT: 16.81 min Scan# 1089  
Delta R.T. -0.05 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 71.9  | 67.8  | 101.6 |
| 268     | 71.5  | 70.0  | 105.0 |

Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





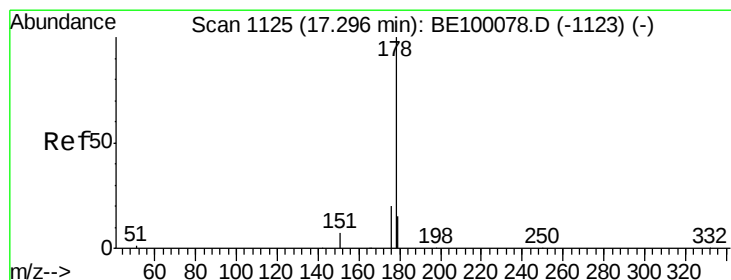
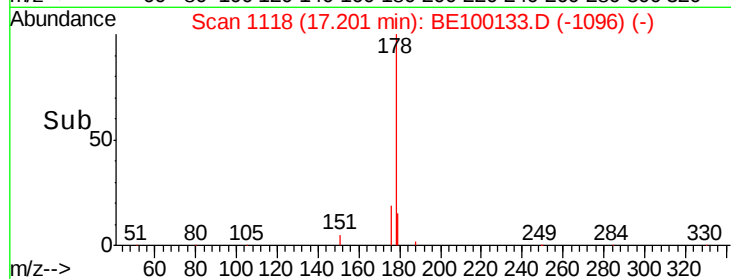
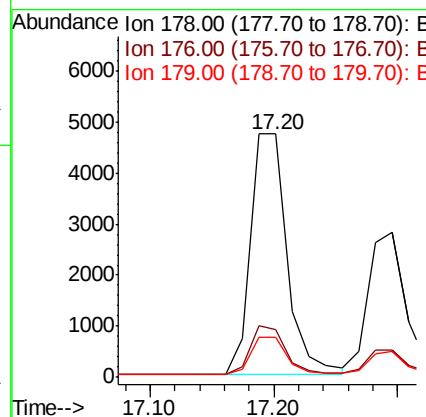
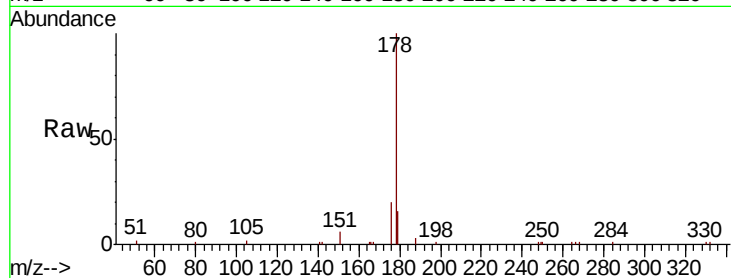
#23  
Phenanthrene  
Concen: 0.615 ng  
RT: 17.20 min Scan# 1118  
Delta R.T. -0.00 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.0  | 15.9  | 23.9  |
| 179     | 15.7  | 13.1  | 19.7  |

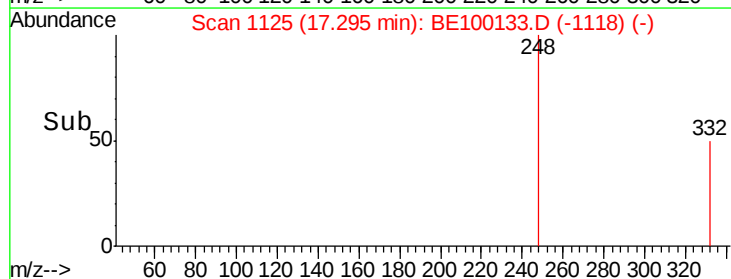
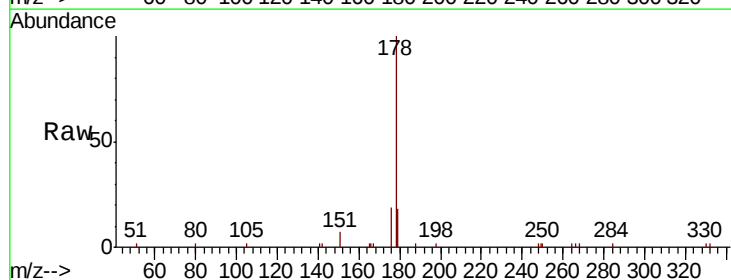
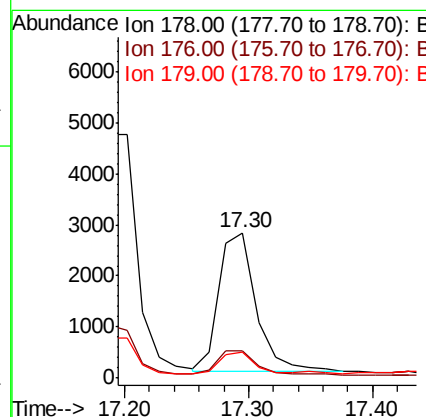
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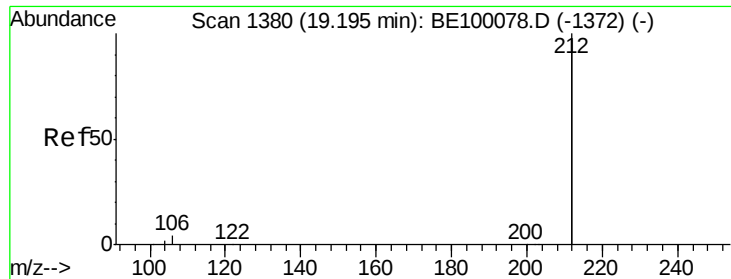
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#24  
Anthracene  
Concen: 0.424 ng  
RT: 17.30 min Scan# 1125  
Delta R.T. -0.00 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.8  | 23.6  |
| 179     | 14.1  | 12.0  | 18.0  |





#25

Fluoranthene-d10

Concen: 0.032 ng

RT: 19.19 min Scan# 1379

Delta R.T. -0.00 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

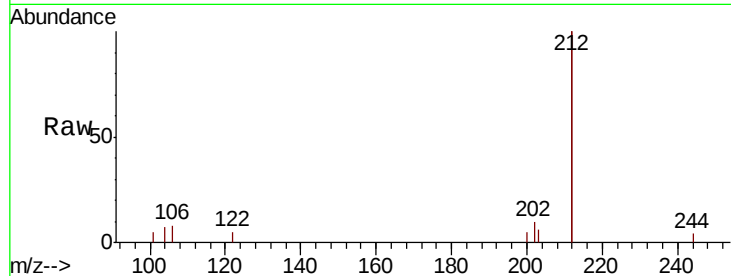
ClientSampleId :

PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 1.9   | 1.4   | 2.0   |
| 104     | 1.3   | 0.8   | 1.2#  |

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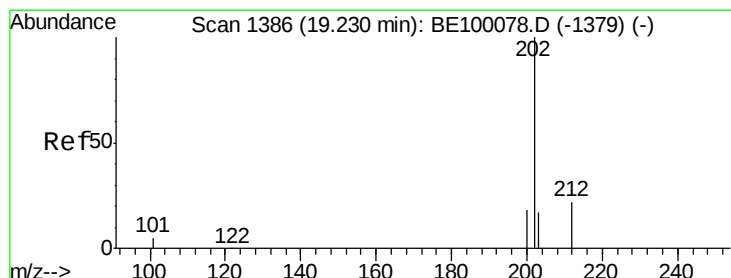
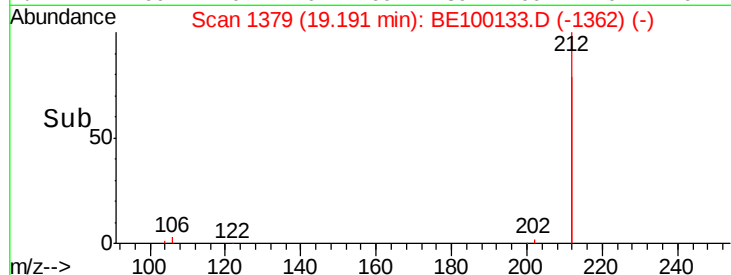
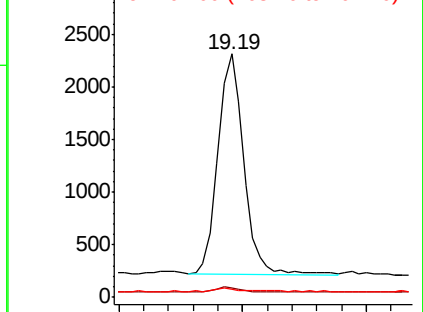


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.694 ng

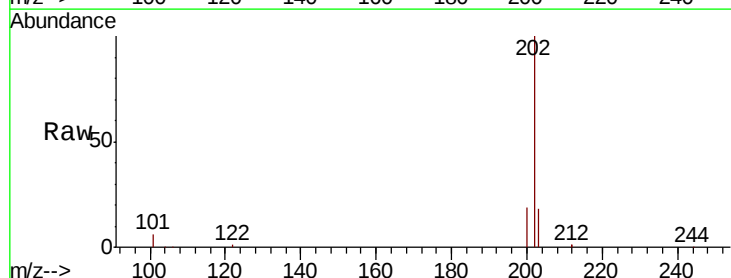
RT: 19.22 min Scan# 1384

Delta R.T. -0.01 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 6.6   | 5.0   | 7.4   |
| 203     | 17.5  | 13.7  | 20.5  |

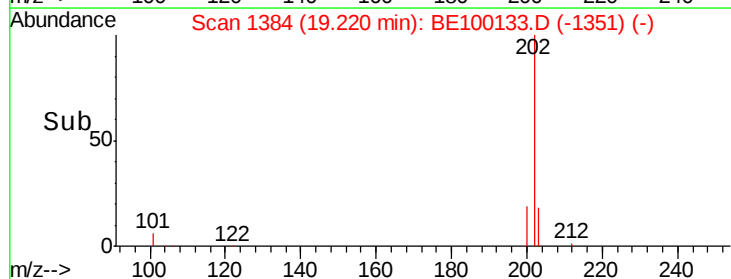
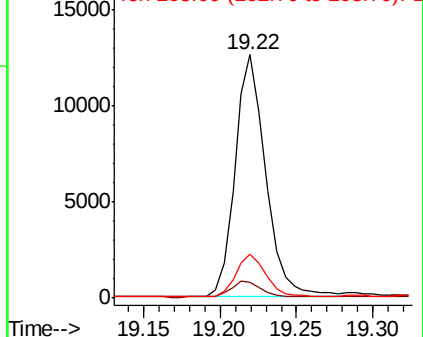


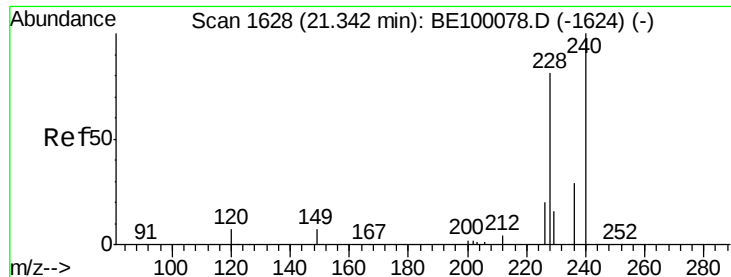
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





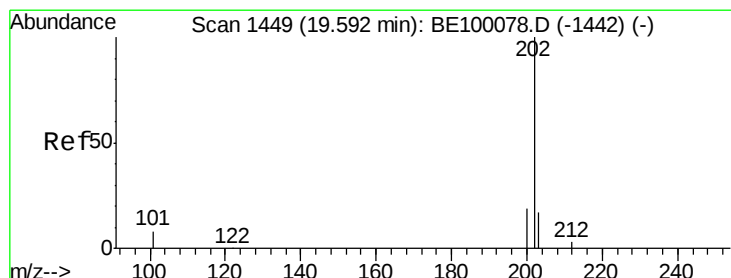
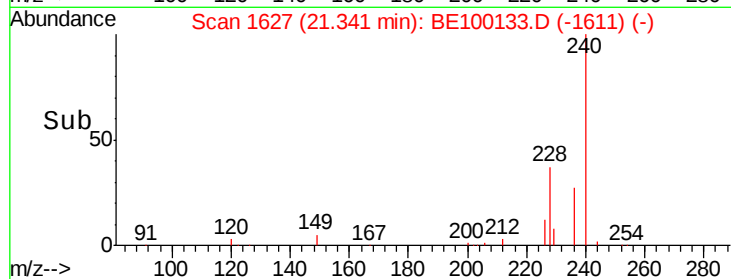
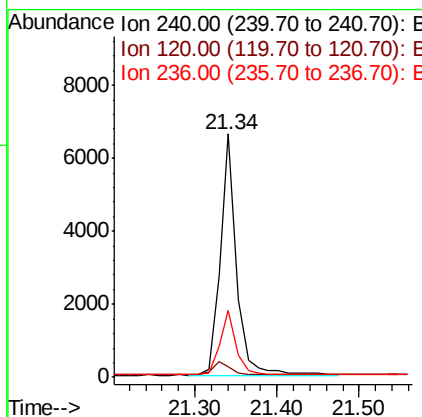
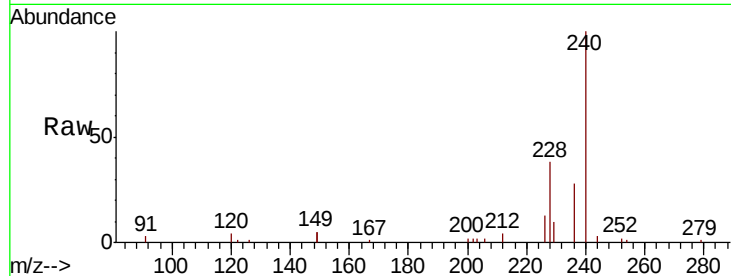
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.34 min Scan# 1627  
 Delta R.T. -0.00 min  
 Lab File: BE100133.D  
 Acq: 21 Jun 2019 13:16

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 4.3   | 6.6   | 10.0# |
| 236     | 27.8  | 23.8  | 35.6  |

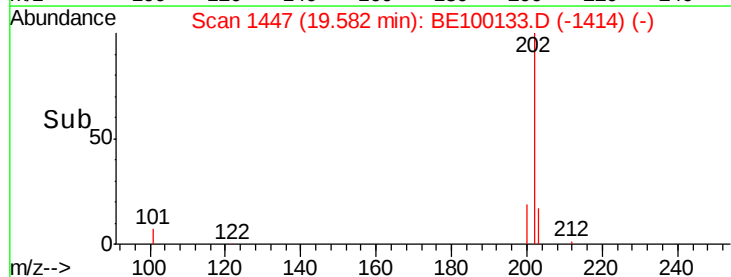
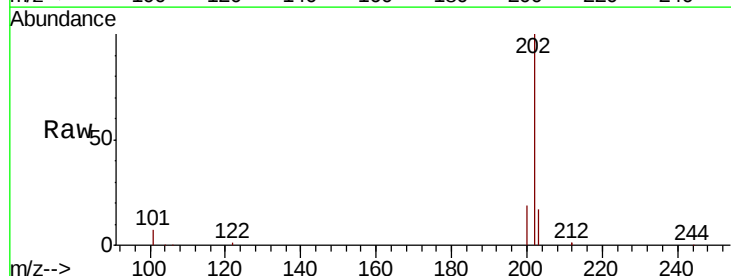
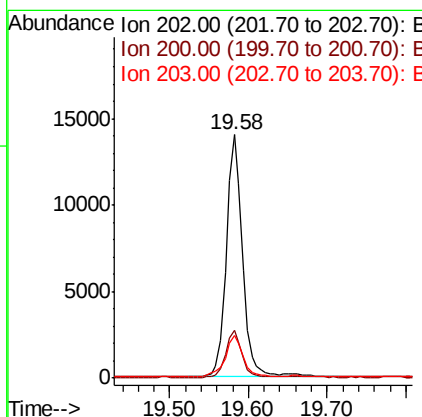
Manual Integrations  
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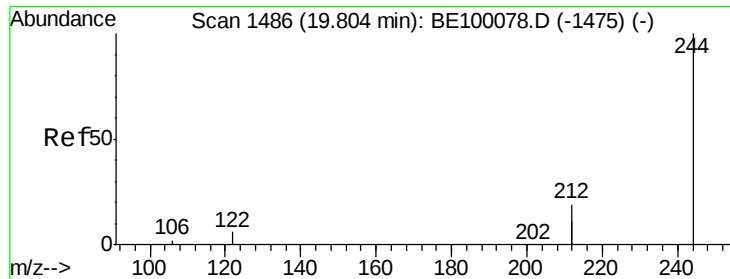
mohammad  
 6/25/2019 3:20:57 PM



#28  
 Pyrene  
 Concen: 0.851 ng  
 RT: 19.58 min Scan# 1447  
 Delta R.T. -0.01 min  
 Lab File: BE100133.D  
 Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.3  | 15.6  | 23.4  |
| 203     | 18.8  | 13.9  | 20.9  |





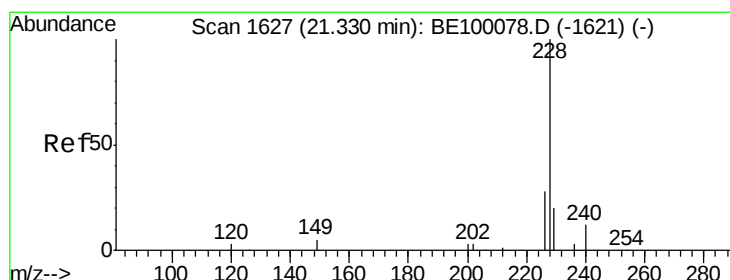
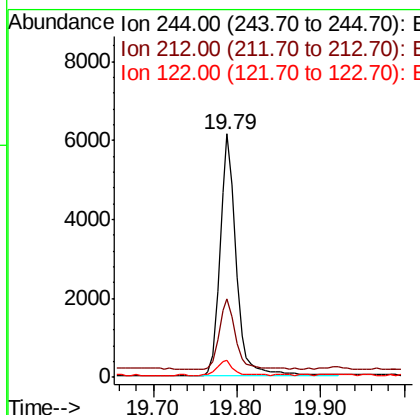
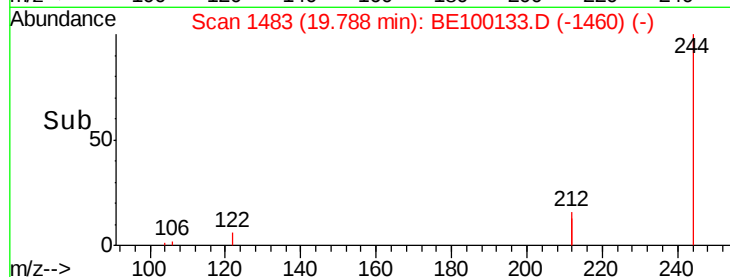
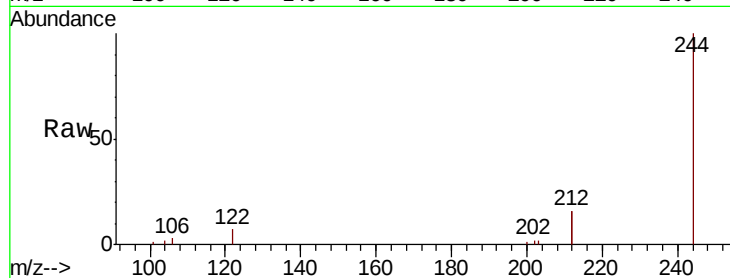
#29  
 Terphenyl-d14  
 Concen: 0.446 ng  
 RT: 19.79 min Scan# 1483  
 Delta R.T. -0.02 min  
 Lab File: BE100133.D  
 Acq: 21 Jun 2019 13:16

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 32.2  | 29.8  | 44.8  |
| 122     | 6.8   | 6.1   | 9.1   |

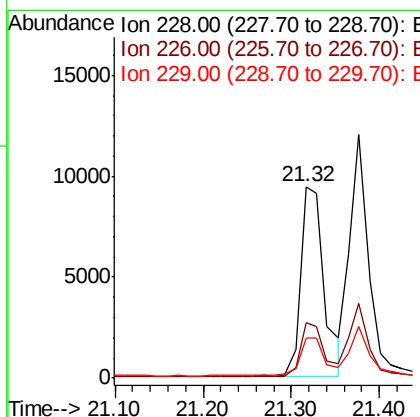
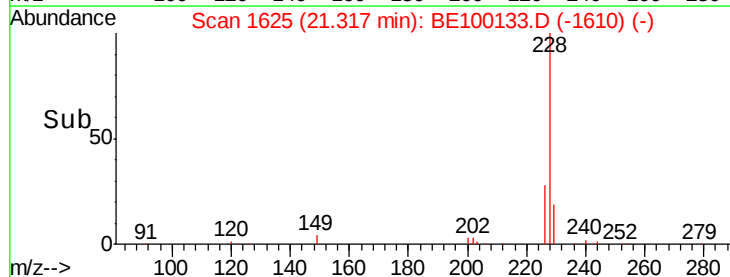
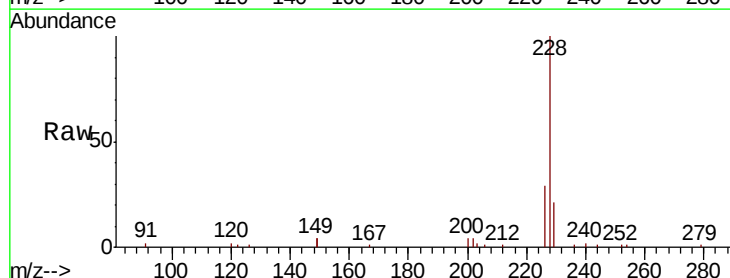
Manual Integrations  
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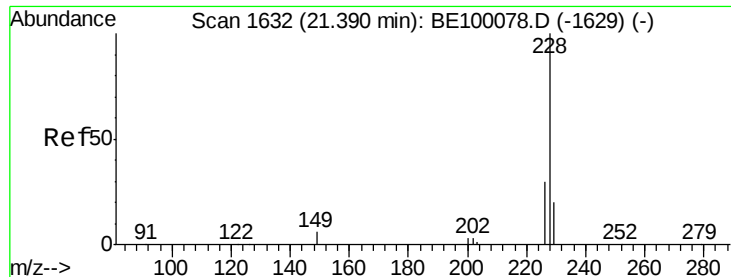
mohammad  
 6/25/2019 3:20:57 PM



#30  
 Benzo(a)anthracene  
 Concen: 0.653 ng  
 RT: 21.32 min Scan# 1625  
 Delta R.T. -0.01 min  
 Lab File: BE100133.D  
 Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 23.0  | 34.4  |
| 229     | 20.7  | 16.4  | 24.6  |





#31

Chrysene

Concen: 0.551 ng

RT: 21.38 min Scan# 1630

Delta R.T. -0.01 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

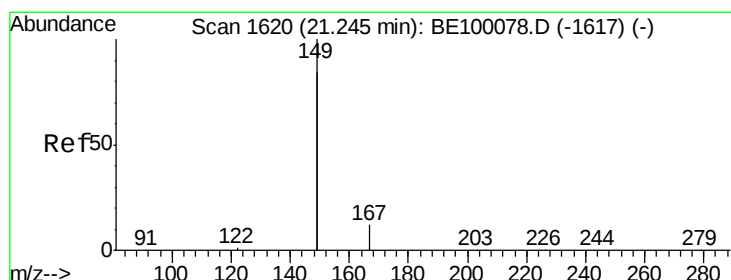
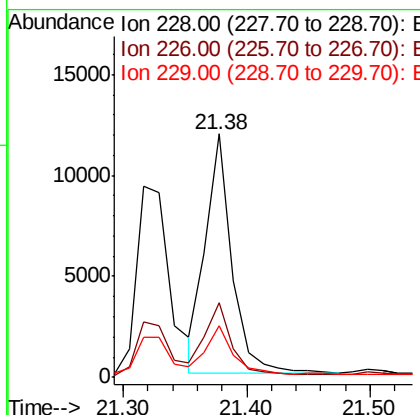
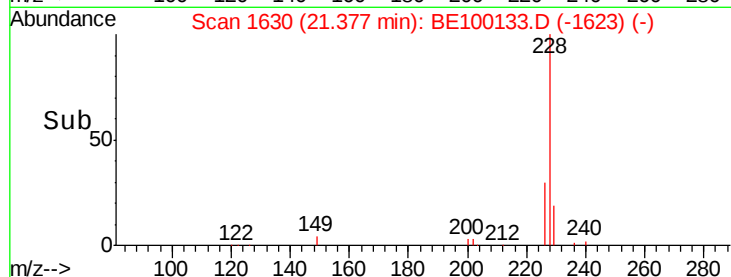
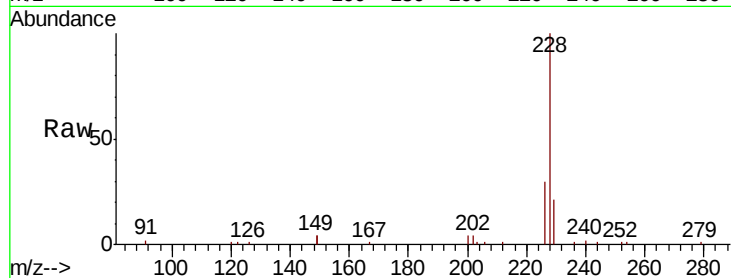
ClientSampleId :

PST-084-B045-061319MS

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:228 | Resp: | 17470     |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 30.4  | 23.8 35.8 |
| 229         | 21.0  | 16.3 24.5 |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.739 ng

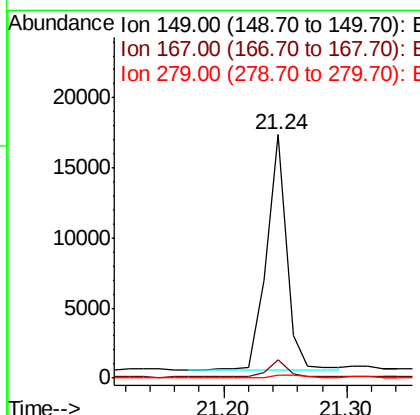
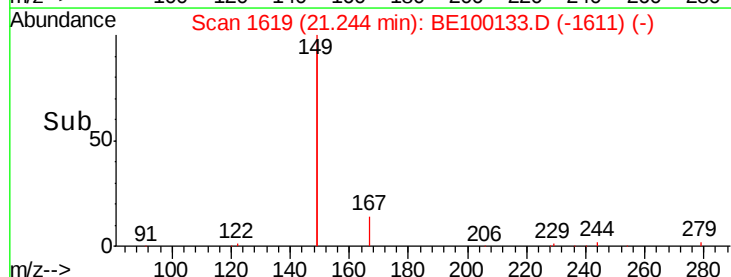
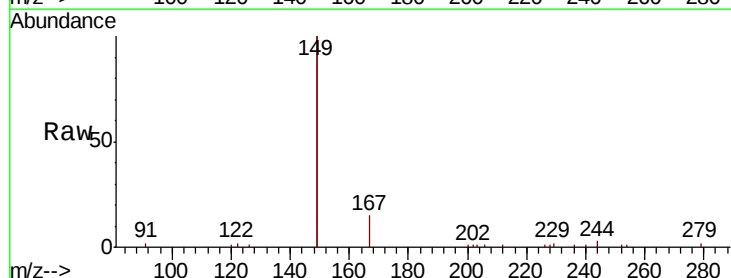
RT: 21.24 min Scan# 1619

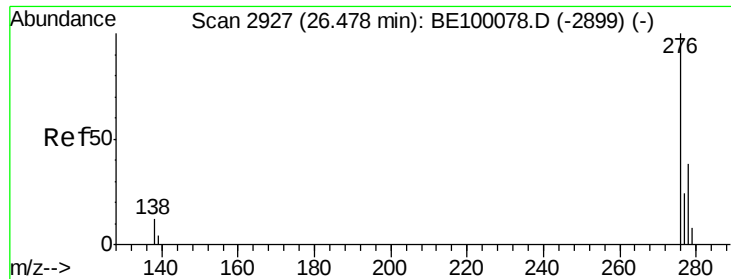
Delta R.T. -0.00 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

|             |       |         |
|-------------|-------|---------|
| Tgt Ion:149 | Resp: | 19042   |
| Ion Ratio   | Lower | Upper   |
| 149         | 100   |         |
| 167         | 7.3   | 5.8 8.6 |
| 279         | 1.3   | 1.1 1.7 |





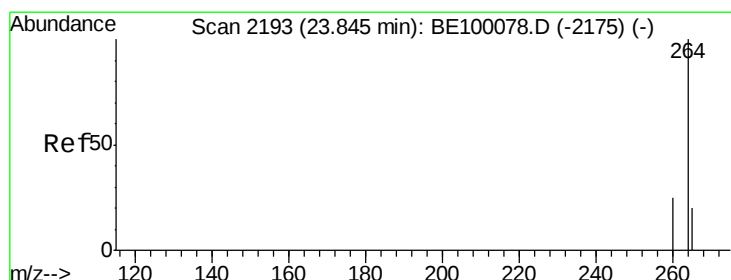
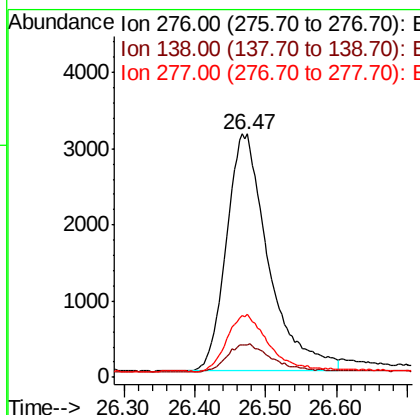
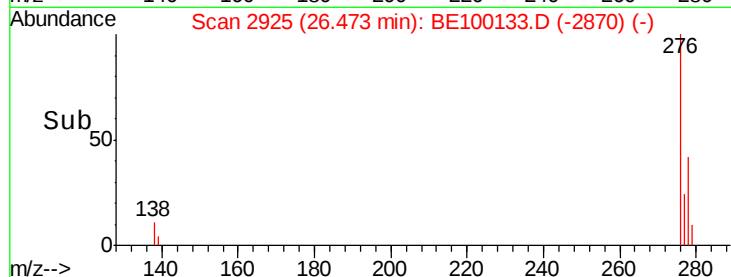
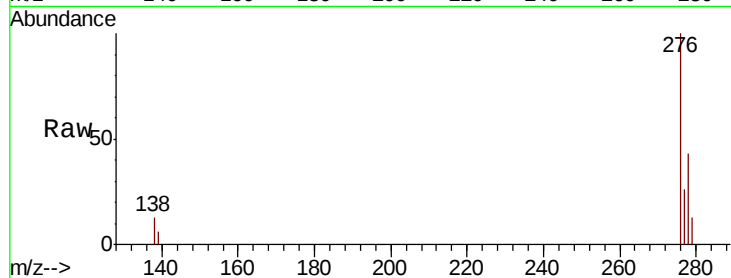
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.360 ng  
 RT: 26.47 min Scan# 2925  
 Delta R.T. -0.00 min  
 Lab File: BE100133.D  
 Acq: 21 Jun 2019 13:16

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.5  | 4.3   | 6.5#  |
| 277     | 23.8  | 19.4  | 29.0  |

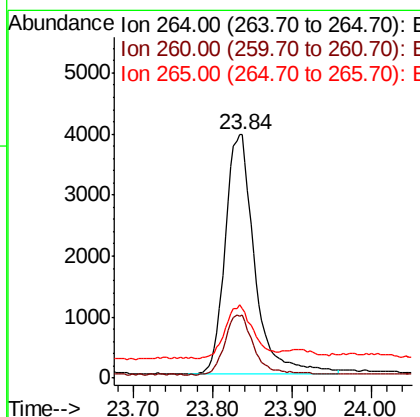
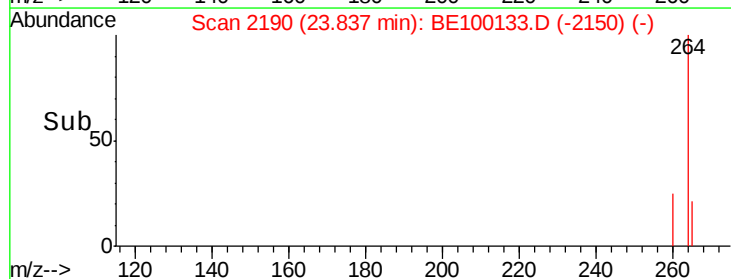
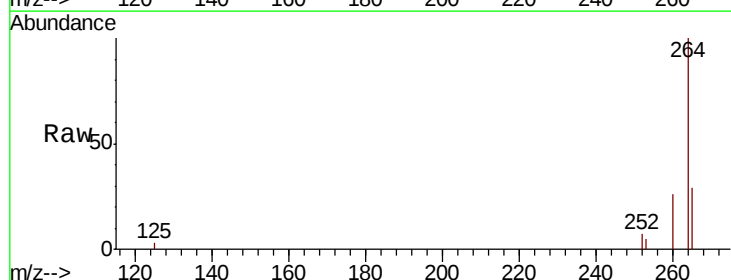
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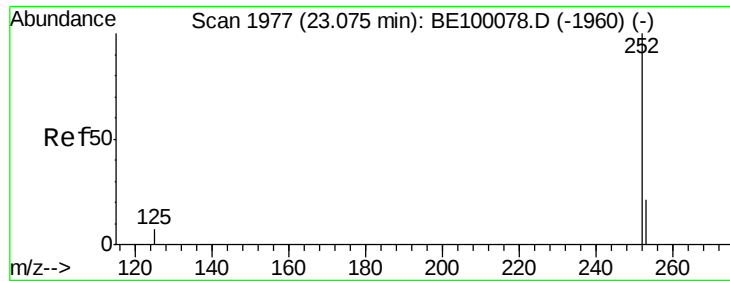
mohammad  
 6/25/2019 3:20:57 PM



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.84 min Scan# 2190  
 Delta R.T. -0.01 min  
 Lab File: BE100133.D  
 Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.7  | 20.8  | 31.2  |
| 265     | 28.6  | 23.2  | 34.8  |





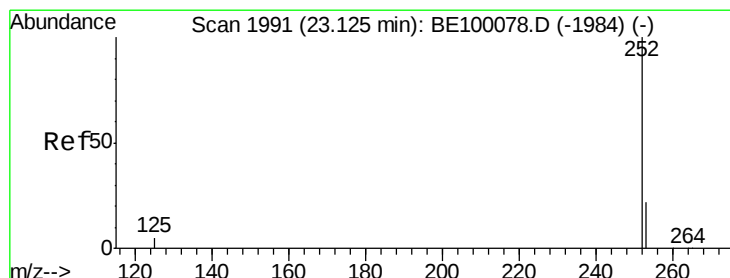
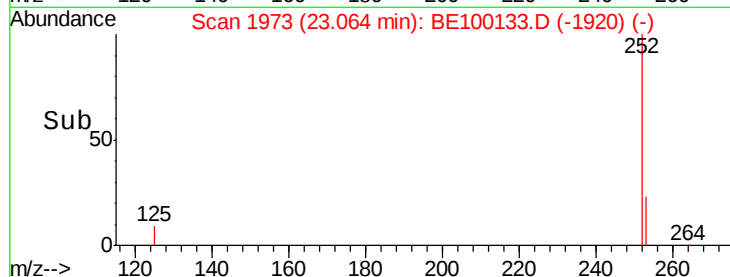
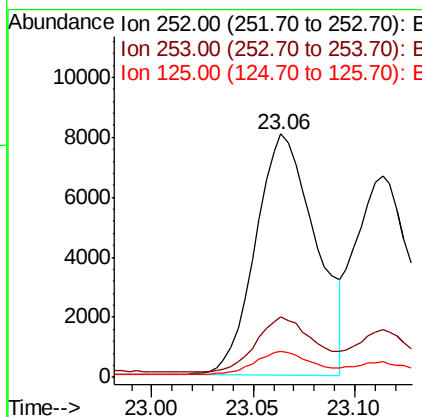
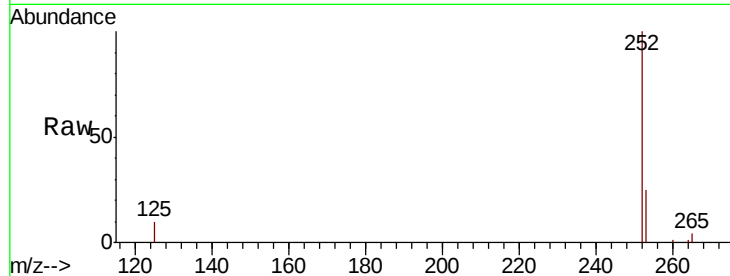
#35  
Benzo(b)fluoranthene  
Concen: 0.554 ng m  
RT: 23.06 min Scan# 1973  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PST-084-B045-061319MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 18.4  | 27.6  |
| 125     | 10.5  | 6.4   | 9.6   |

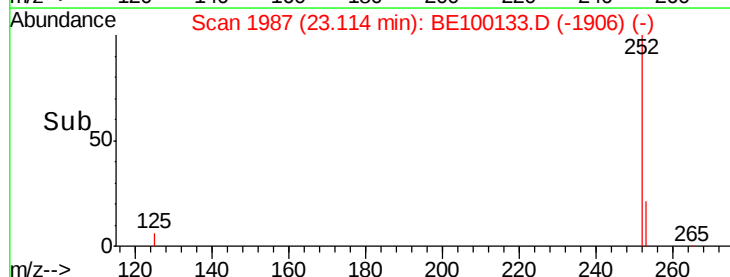
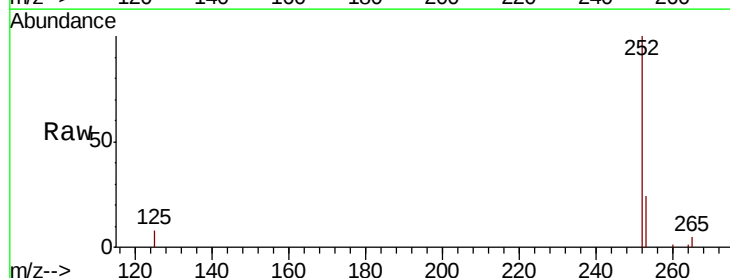
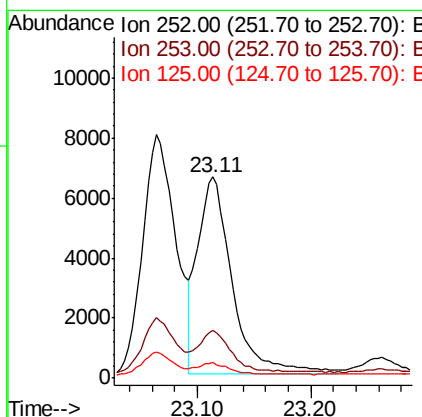
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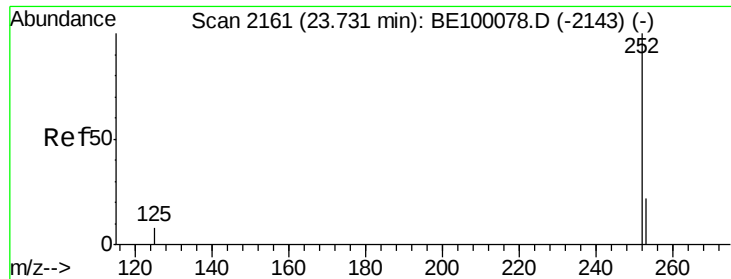
mohammad  
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#36  
Benzo(k)fluoranthene  
Concen: 0.413 ng  
RT: 23.11 min Scan# 1987  
Delta R.T. -0.01 min  
Lab File: BE100133.D  
Acq: 21 Jun 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 18.9  | 28.3  |
| 125     | 7.6   | 5.3   | 7.9   |





#37

Benzo(a)pyrene

Concen: 0.484 ng

RT: 23.72 min Scan# 2157

Delta R.T. -0.01 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

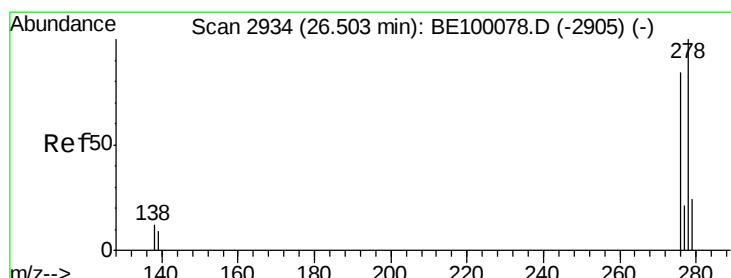
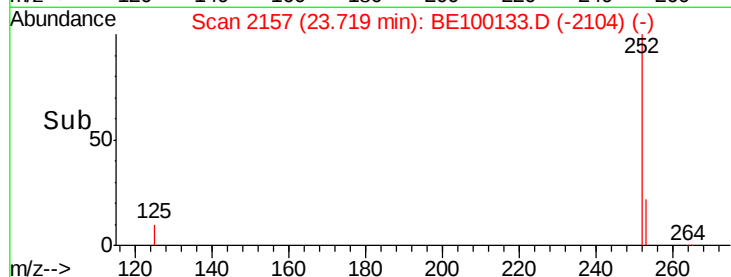
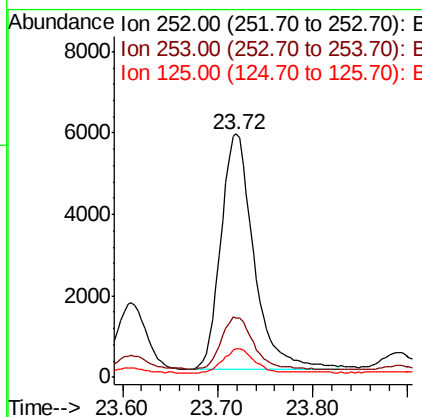
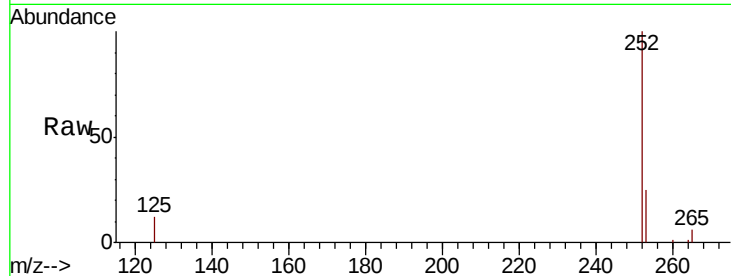
ClientSampleId :

PST-084-B045-061319MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 13951 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.5  | 19.4  | 29.2  |
| 125       | 11.5  | 8.0   | 12.0  |

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#38

Dibenzo(a,h)anthracene

Concen: 0.291 ng

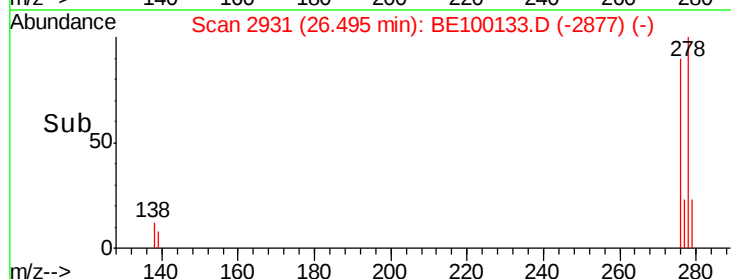
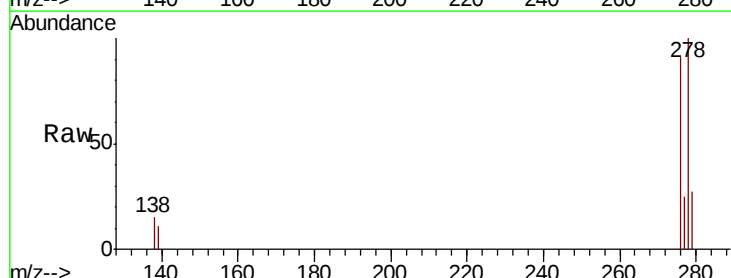
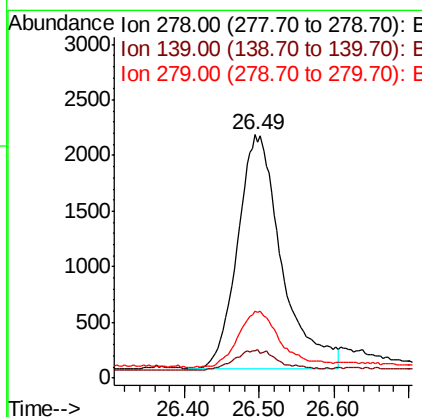
RT: 26.49 min Scan# 2931

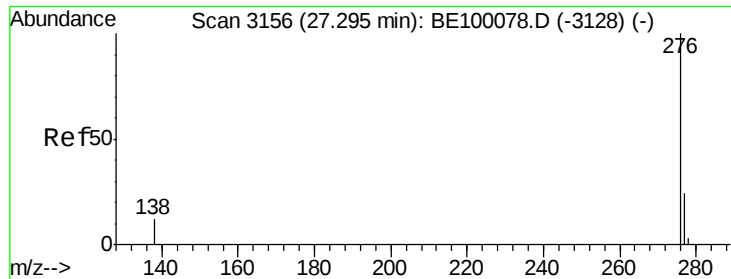
Delta R.T. -0.01 min

Lab File: BE100133.D

Acq: 21 Jun 2019 13:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 8596 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 11.2  | 9.0   | 13.6 |
| 279       | 27.4  | 21.4  | 32.0 |





#39

Benzo(a,h,i)perylene

Concen: 0.394 ng

RT: 27.28 min Scan# 3151

Delta R.T. -0.02 min

Lab File: BE100133.D

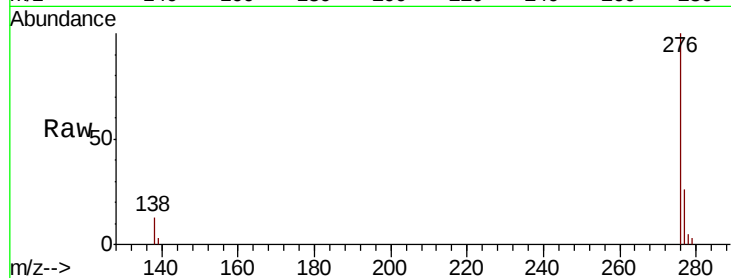
Acq: 21 Jun 2019 13:16

Instrument :

BNA\_E

ClientSampleId :

PST-084-B045-061319MS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 12104 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.1  | 20.3  | 30.5  |
| 138       | 13.3  | 11.3  | 16.9  |

Manual Integrations  
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