

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\  
 Data File : BE100347.D  
 Acq On : 4 Jul 2019 2:23  
 Operator : JU/SJ  
 Sample : K3560-15 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-009-B223-062419

Manual Integrations  
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mohammad  
 7/5/2019 8:55:09 AM

Quant Time: Jul 04 03:16:26 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 14:06:53 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 708      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.43 | 136  | 2415     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.31 | 164  | 1982     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.05 | 188  | 5795     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.25 | 240  | 7560     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.66 | 264  | 9155     | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

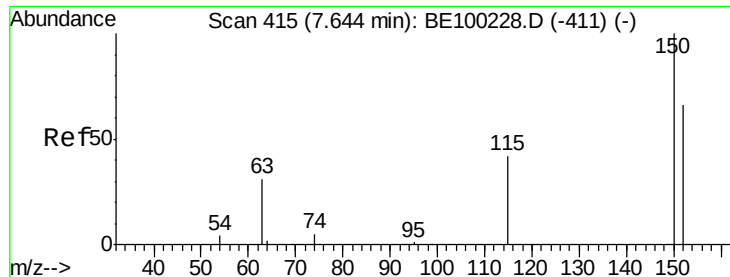
|                             |       |     |      |      |    |       |
|-----------------------------|-------|-----|------|------|----|-------|
| 4) 2-Fluorophenol           | 5.20  | 112 | 216  | 0.12 | ng | 0.00  |
| 5) Phenol-d6                | 6.83  | 99  | 285  | 0.12 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.82  | 82  | 258  | 0.11 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.05 | 152 | 549  | 0.12 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.82 | 330 | 174  | 0.13 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.94 | 172 | 824  | 0.11 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.09 | 212 | 8226 | 0.10 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.69 | 244 | 2147 | 0.14 | ng | -0.01 |

#### Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 16) Acenaphthylene             | 14.04 | 152 | 498   | 0.052 | ng | 97     |
| 23) Phenanthrene               | 17.09 | 178 | 4914  | 0.350 | ng | 100    |
| 24) Anthracene                 | 17.19 | 178 | 578   | 0.046 | ng | # 92   |
| 26) Fluoranthene               | 19.12 | 202 | 15967 | 0.714 | ng | 100    |
| 28) Pyrene                     | 19.48 | 202 | 15492 | 0.774 | ng | 97     |
| 30) Benzo(a)anthracene         | 21.22 | 228 | 8500  | 0.342 | ng | # 93   |
| 31) Chrysene                   | 21.28 | 228 | 10075 | 0.404 | ng | # 93   |
| 32) Bis(2-ethylhexyl)phthalate | 21.15 | 149 | 17021 | 0.427 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.22 | 276 | 7315  | 0.222 | ng | # 97   |
| 35) Benzo(b)fluoranthene       | 22.92 | 252 | 13088 | 0.527 | ng | 92     |
| 36) Benzo(k)fluoranthene       | 22.96 | 252 | 4476m | 0.162 | ng |        |
| 37) Benzo(a)pyrene             | 23.55 | 252 | 8210m | 0.330 | ng |        |
| 38) Dibenzo(a,h)anthracene     | 26.22 | 278 | 1774  | 0.068 | ng | # 34   |
| 39) Benzo(g,h,i)perylene       | 27.00 | 276 | 9422  | 0.353 | ng | # 92   |

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





#1

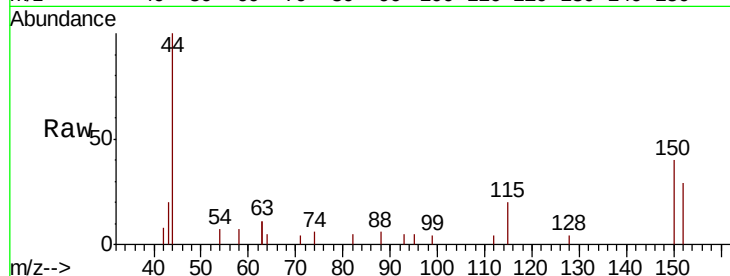
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.63 min Scan# 414  
Delta R.T. -0.01 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 139.9 | 114.5 | 171.7 |
| 115     | 68.6  | 57.1  | 85.7  |

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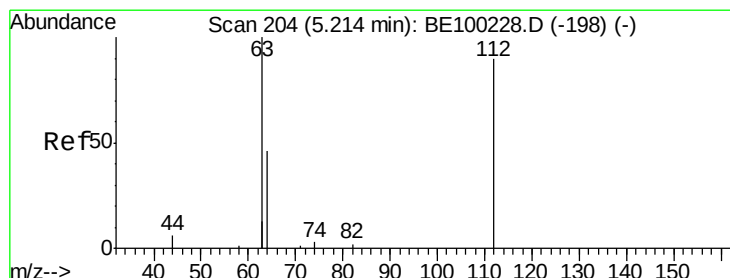
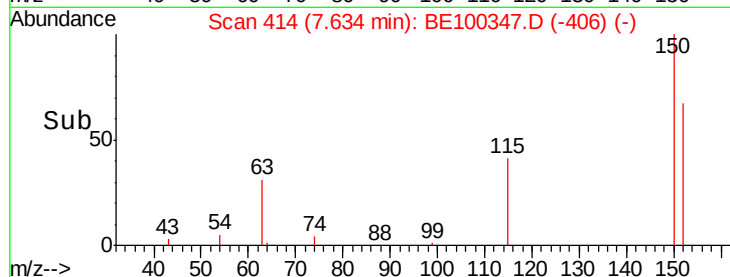
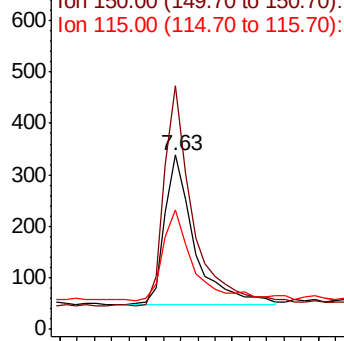


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

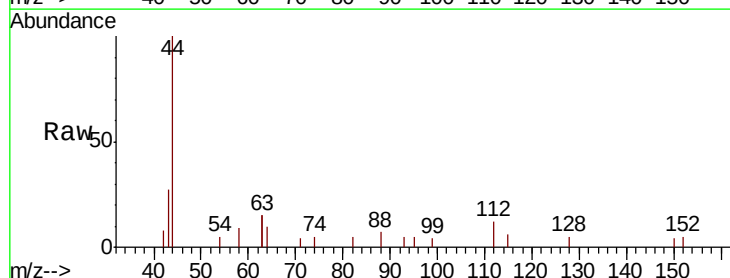
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.120 ng  
RT: 5.20 min Scan# 203  
Delta R.T. -0.01 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.5  | 39.4  | 59.0  |
| 63      | 151.9 | 104.5 | 156.7 |

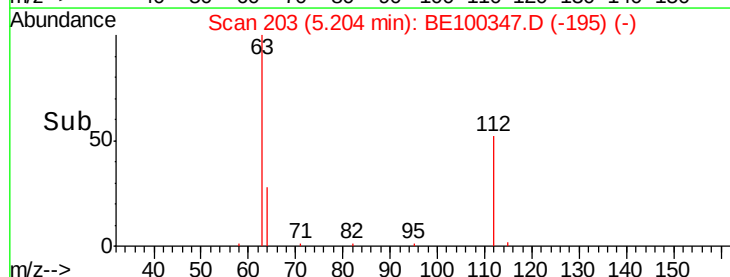
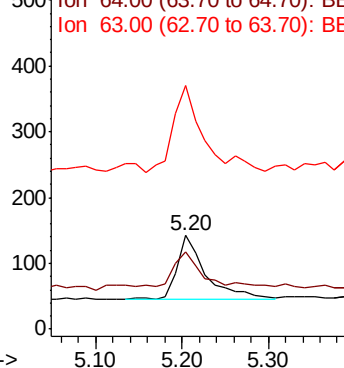


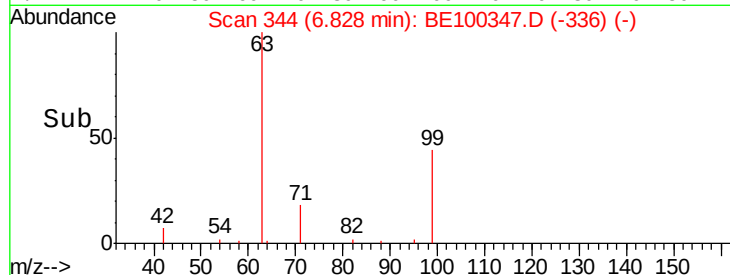
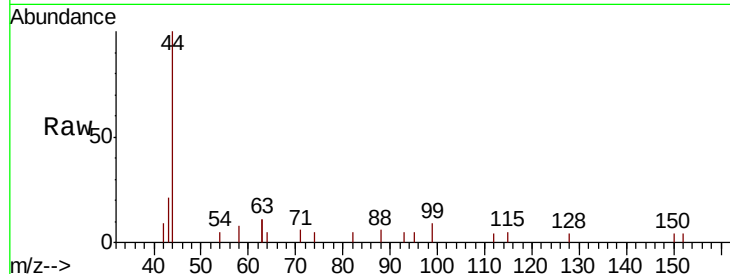
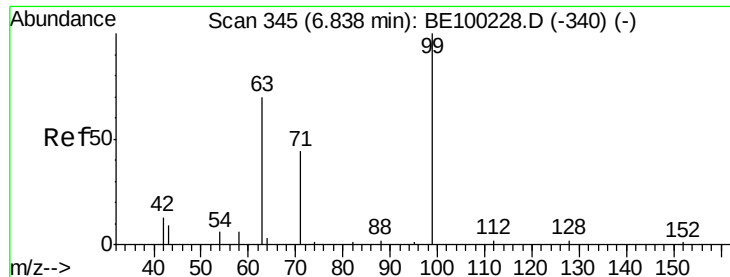
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





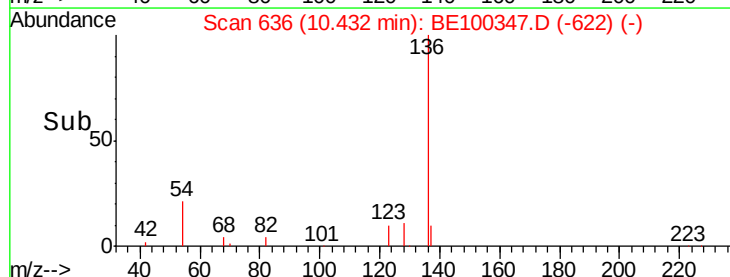
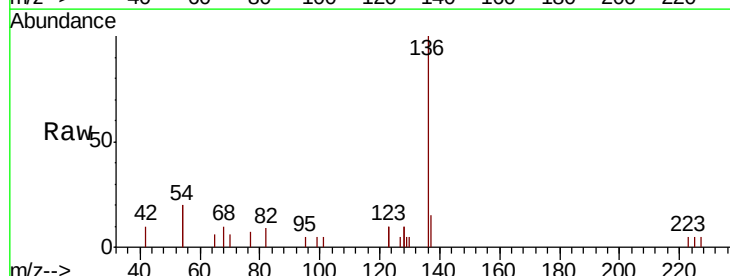
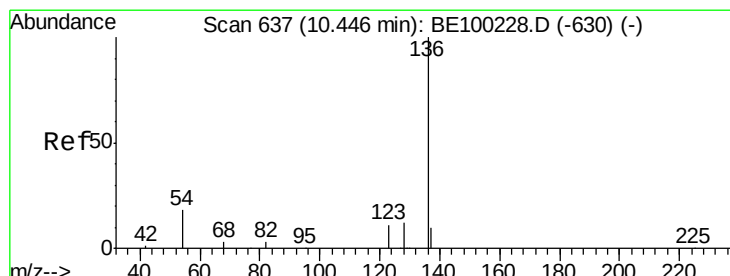
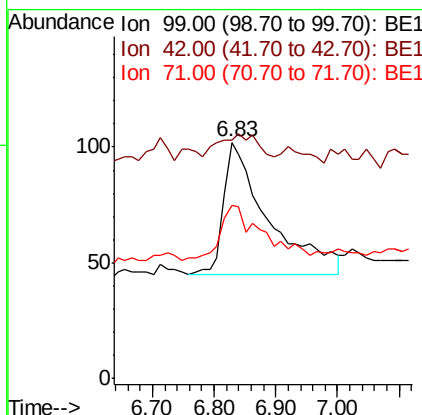
#5  
Phenol-d6  
Concen: 0.120 ng  
RT: 6.83 min Scan# 344  
Delta R.T. -0.01 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 99      | 100  |       | 285  |       |       |
| 42      | 13.3 | 11.2  | 16.8 |       |       |
| 71      | 39.6 | 37.2  | 55.8 |       |       |

Instrument :  
BNA\_E  
ClientSampleId :  
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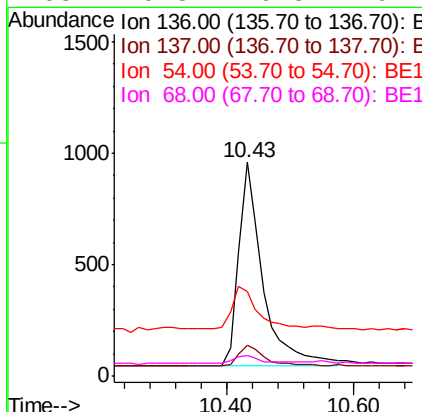
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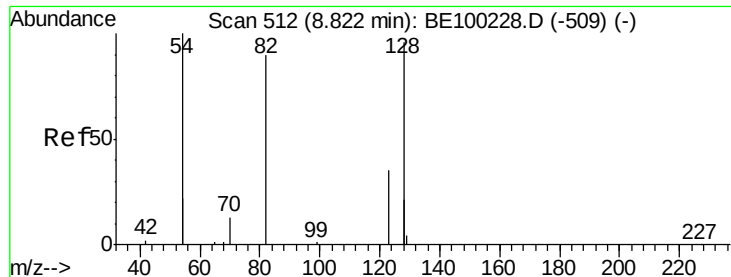
mohammad  
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#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.43 min Scan# 636  
Delta R.T. -0.01 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 136     | 100  |       | 2415 |       |       |
| 137     | 14.6 | 11.8  | 17.8 |       |       |
| 54      | 39.6 | 27.7  | 41.5 |       |       |
| 68      | 9.8  | 6.8   | 10.2 |       |       |





#8

Nitrobenzene-d5

Concen: 0.108 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA\_E

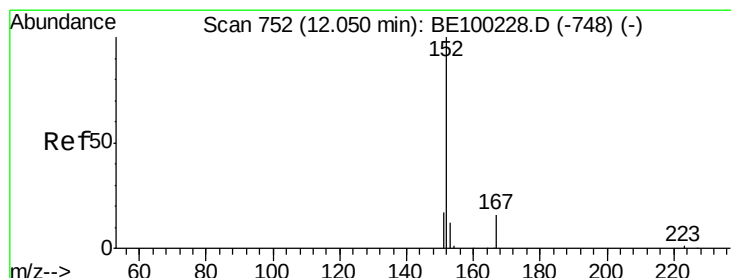
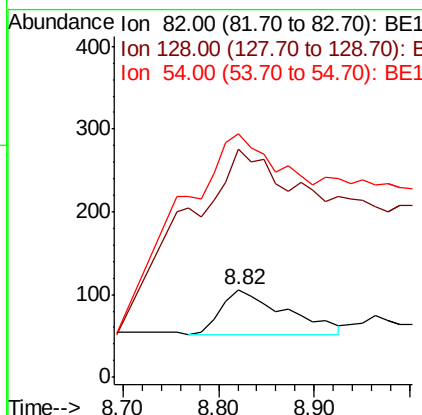
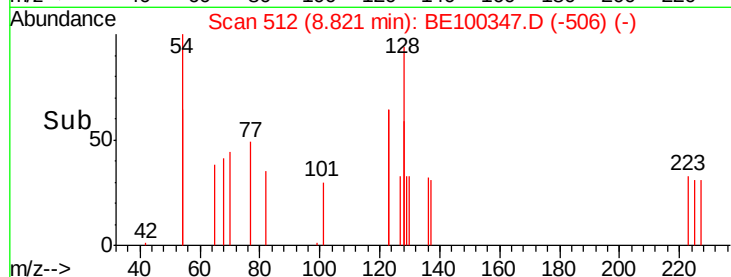
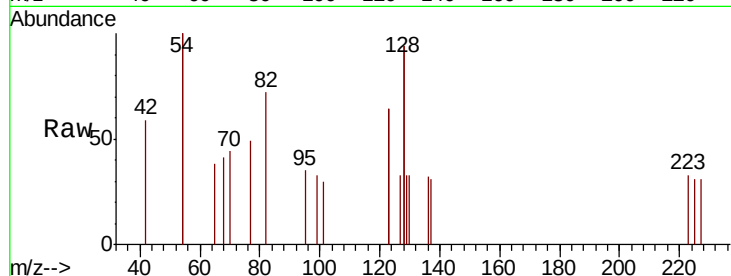
ClientSampleId :

PST-009-B223-062419

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 82    | Resp: | 258    |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 260.4 | 140.9 | 211.3# |
| 54       | 277.4 | 146.2 | 219.2# |

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#11

2-Methylnaphthalene-d10

Concen: 0.121 ng

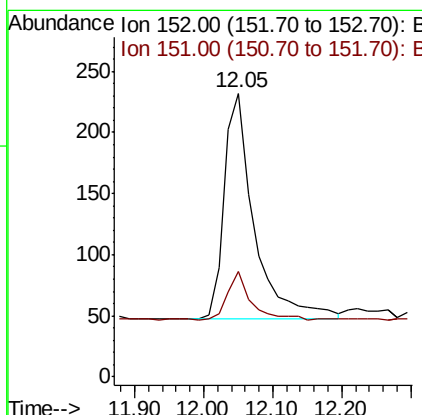
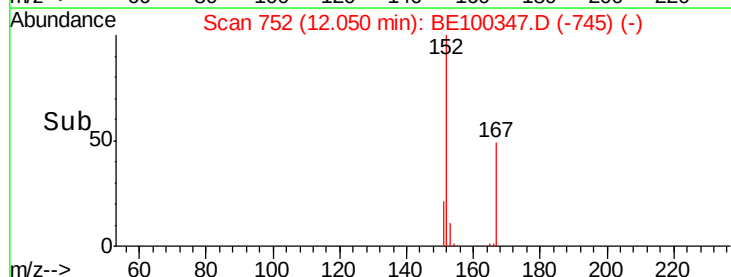
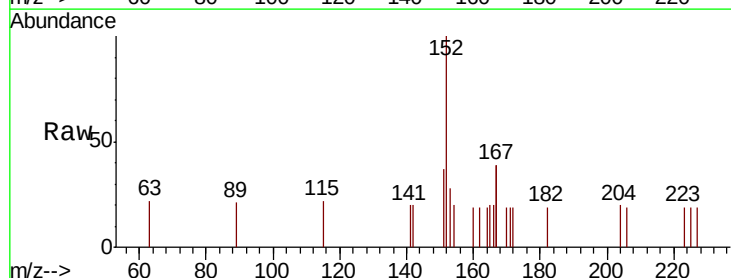
RT: 12.05 min Scan# 752

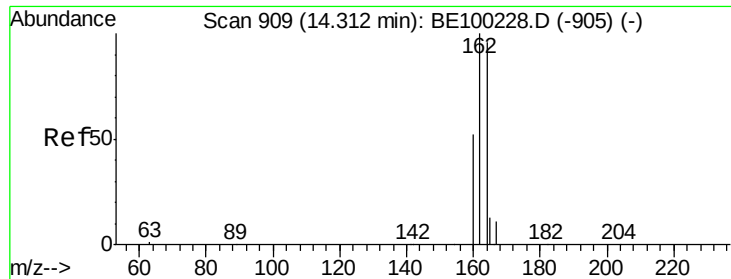
Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 549   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 18.2  | 15.1  | 22.7  |





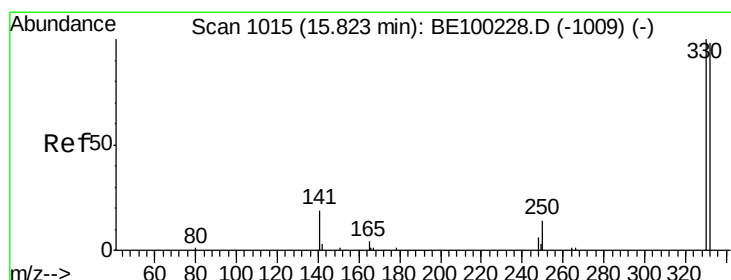
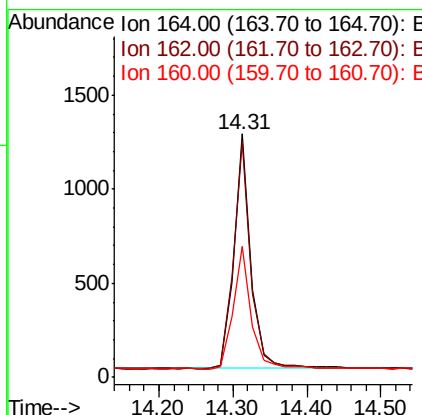
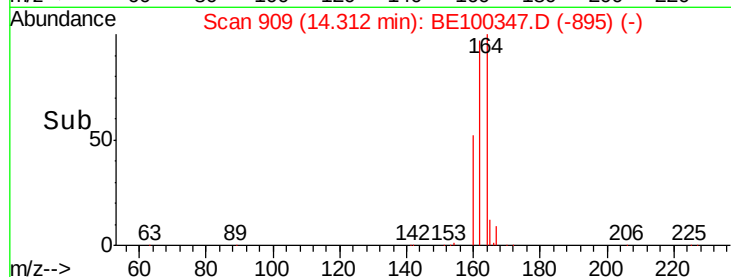
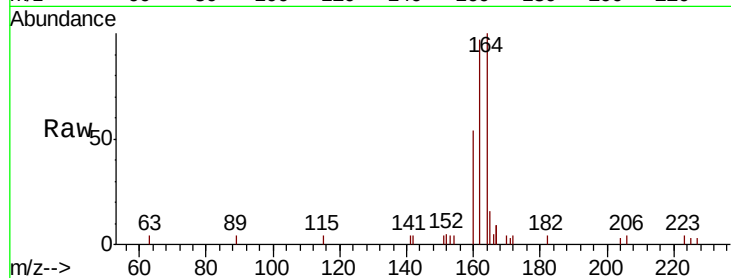
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.31 min Scan# 909  
Delta R.T. 0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.8  | 83.4  | 125.0 |
| 160     | 53.6  | 45.0  | 67.6  |

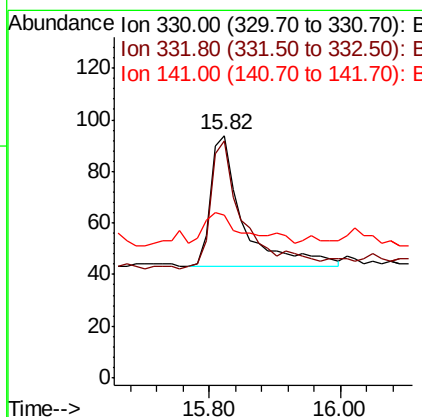
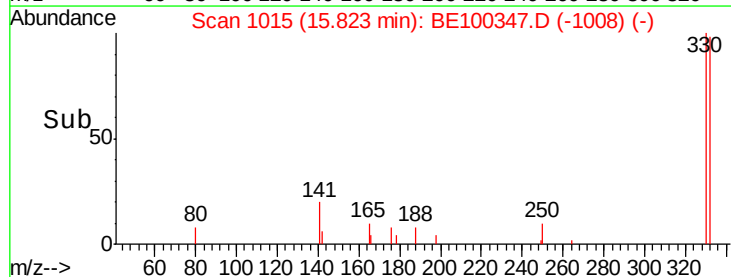
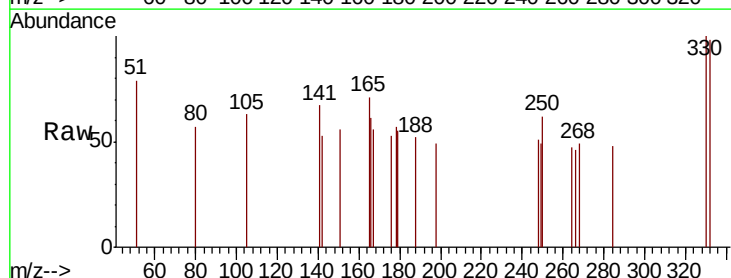
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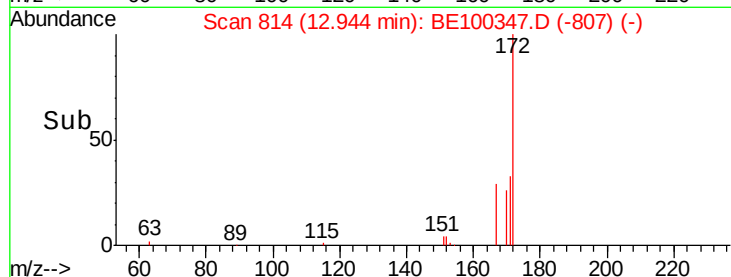
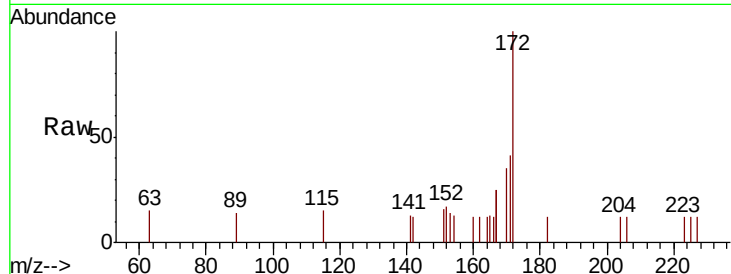
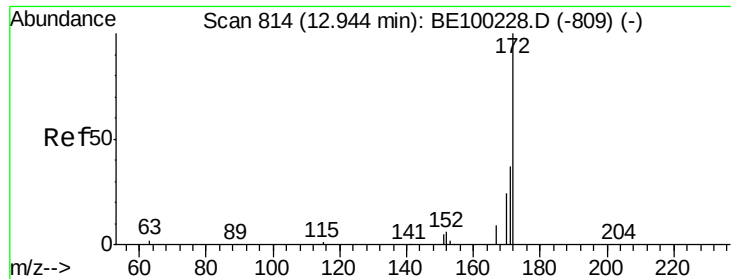
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#14  
2,4,6-Tribromophenol  
Concen: 0.126 ng  
RT: 15.82 min Scan# 1015  
Delta R.T. -0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 101.7 | 77.0  | 115.4 |
| 141     | 27.6  | 22.0  | 33.0  |





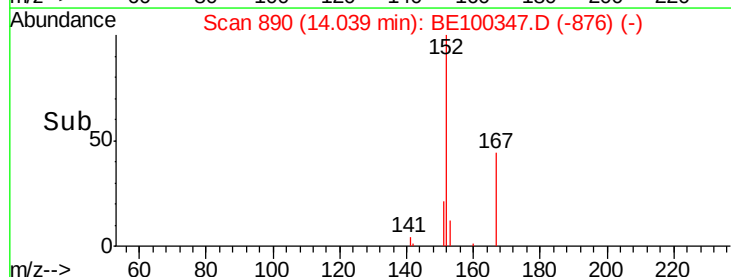
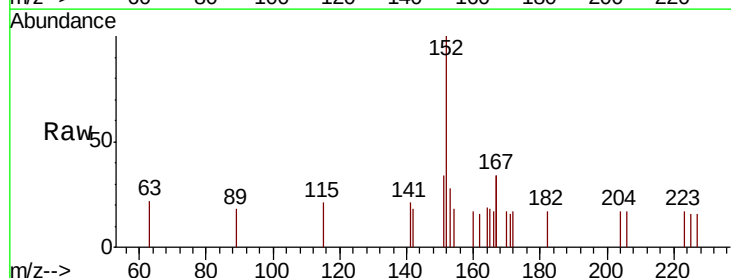
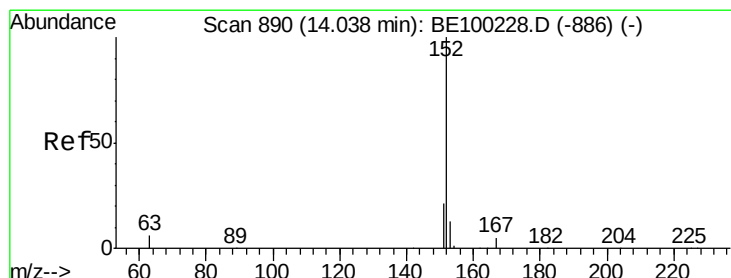
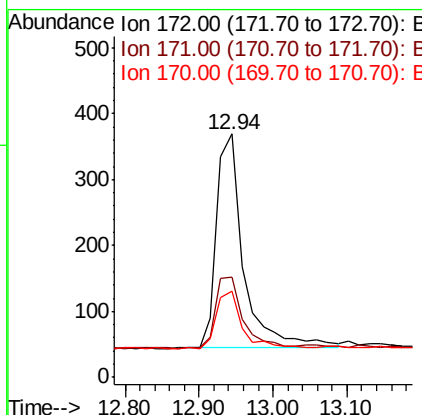
#15  
2-Fluorobiphenyl  
Concen: 0.107 ng  
RT: 12.94 min Scan# 814  
Delta R.T. 0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.2  | 31.9  | 47.9  |
| 170     | 35.2  | 22.2  | 33.2  |

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

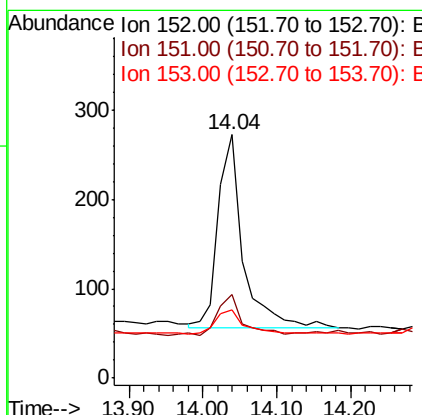
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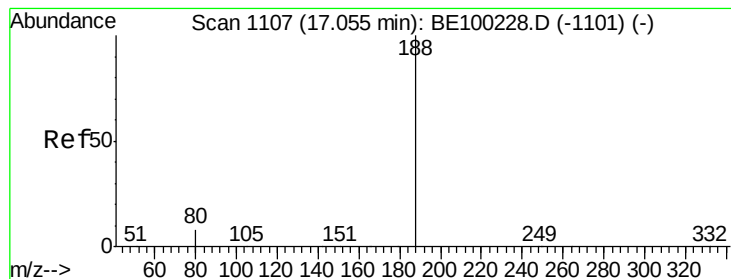
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7/5/2019 8:55:09 AM



#16  
Acenaphthylene  
Concen: 0.052 ng  
RT: 14.04 min Scan# 890  
Delta R.T. 0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 21.5  | 16.6  | 25.0  |
| 153     | 15.1  | 10.5  | 15.7  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA\_E

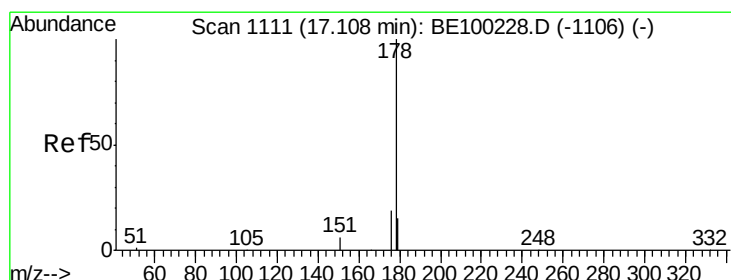
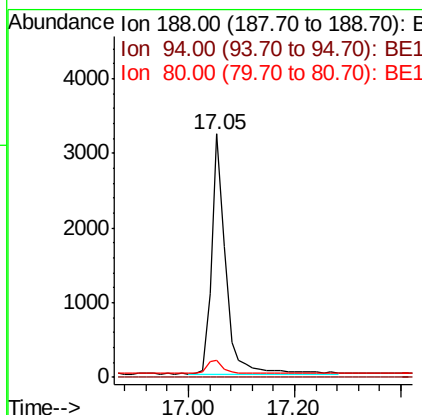
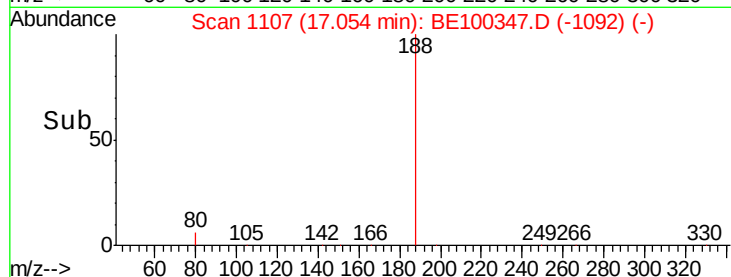
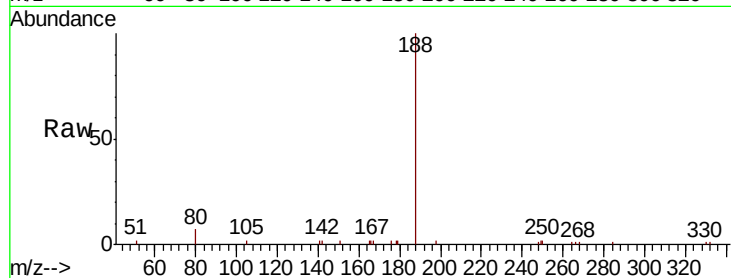
ClientSampleId :

PST-009-B223-062419

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 5795  |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 7.2   | 7.6   | 11.4# |

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#23

Phenanthrene

Concen: 0.350 ng

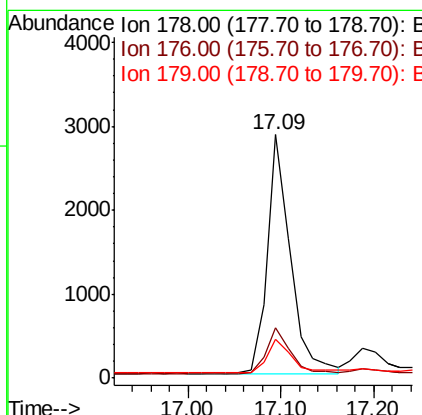
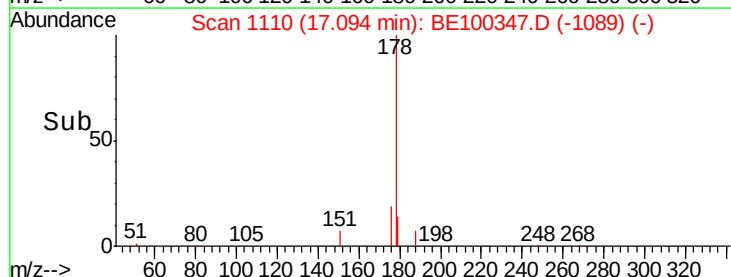
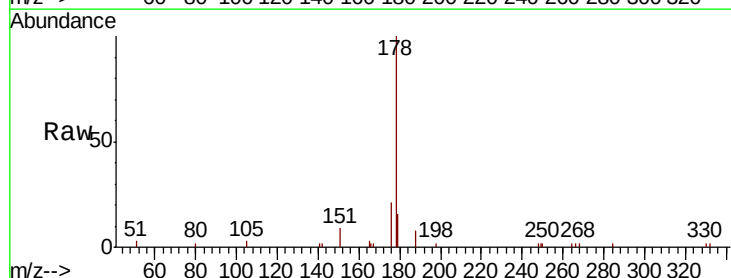
RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

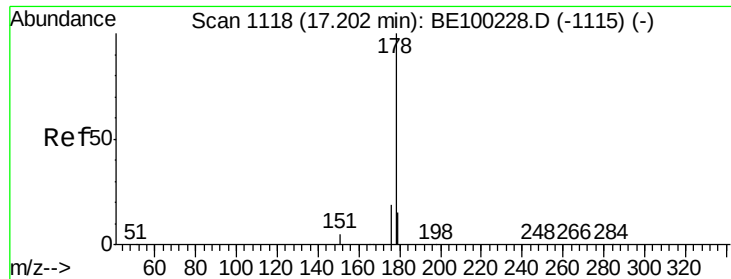
Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 4914 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 20.0  | 15.9  | 23.9 |
| 179       | 14.8  | 12.2  | 18.2 |







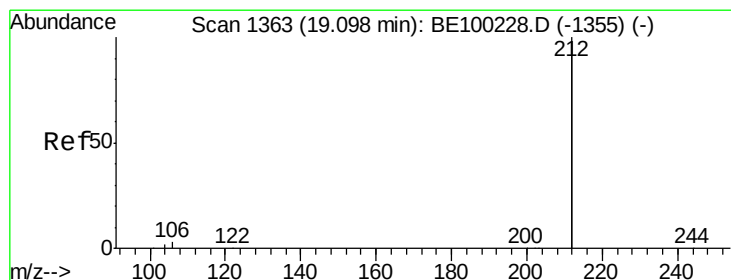
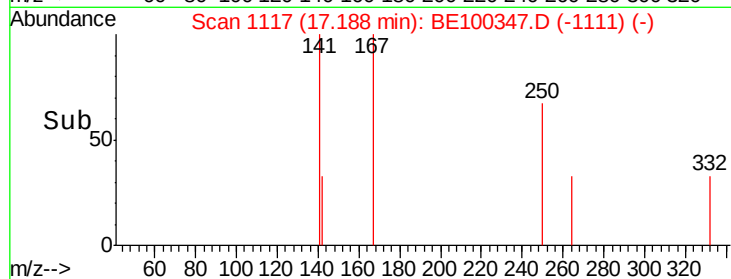
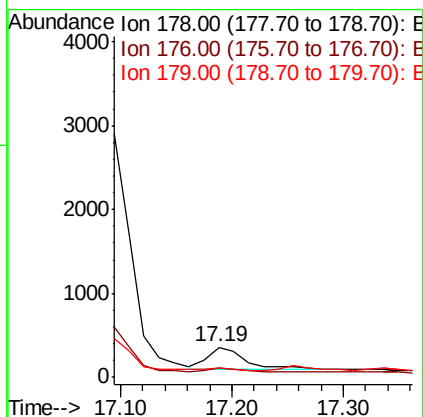
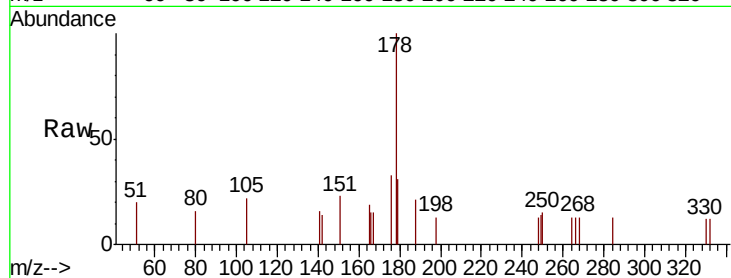
#24  
 Anthracene  
 Concen: 0.046 ng  
 RT: 17.19 min Scan# 1117  
 Delta R.T. -0.01 min  
 Lab File: BE100347.D  
 Acq: 4 Jul 2019 2:23

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-009-B223-062419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 21.1  | 15.3  | 22.9  |
| 179     | 9.9   | 12.2  | 18.2  |

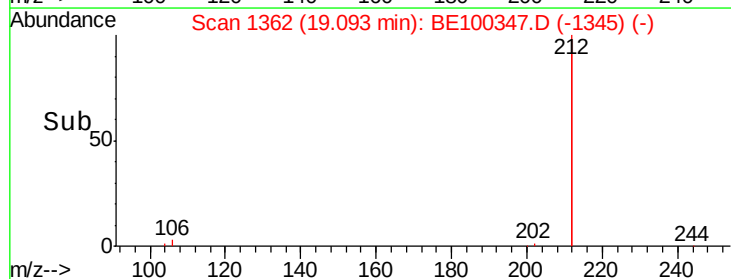
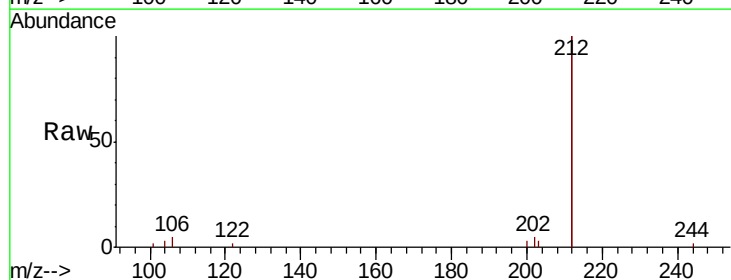
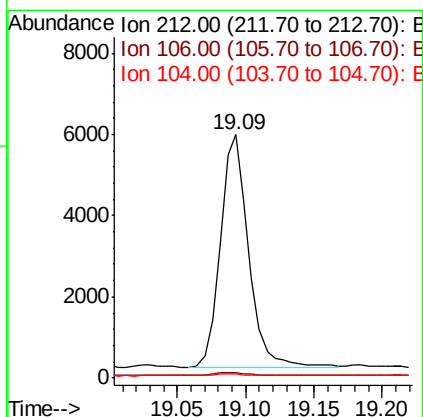
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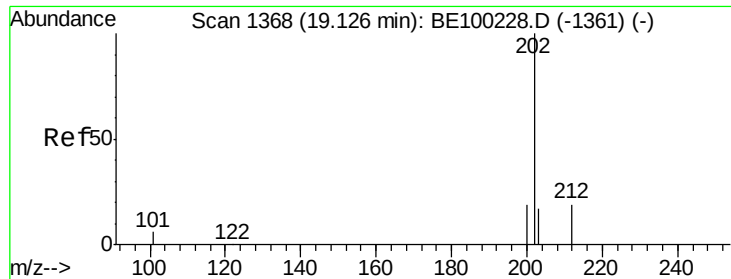
mohammad  
 7/5/2019 8:55:09 AM



#25  
 Fluoranthene-d10  
 Concen: 0.098 ng  
 RT: 19.09 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: BE100347.D  
 Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 1.7   | 1.3   | 1.9   |
| 104     | 0.9   | 0.8   | 1.2   |





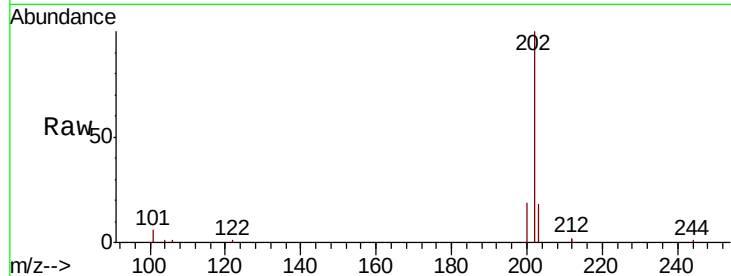
#26  
Fluoranthene  
Concen: 0.714 ng  
RT: 19.12 min Scan# 1367  
Delta R.T. -0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 5.4   | 4.6   | 7.0   |
| 203     | 17.2  | 13.7  | 20.5  |

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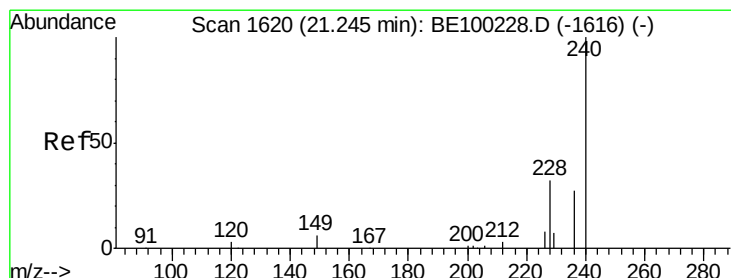
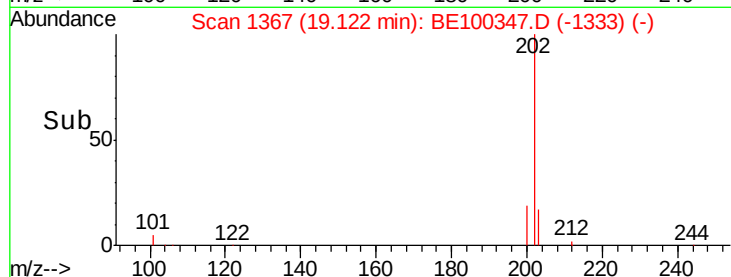
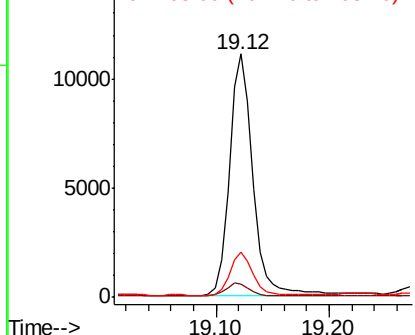


Abundance

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: 21.25 min Scan# 1620  
Delta R.T. 0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

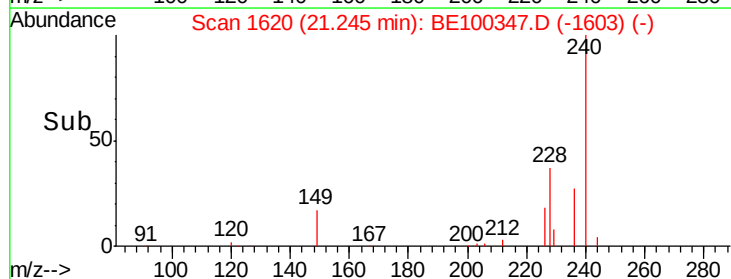
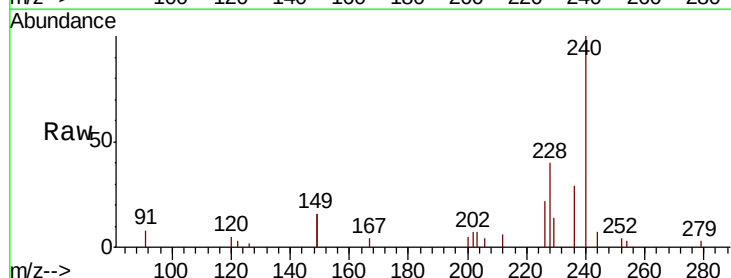
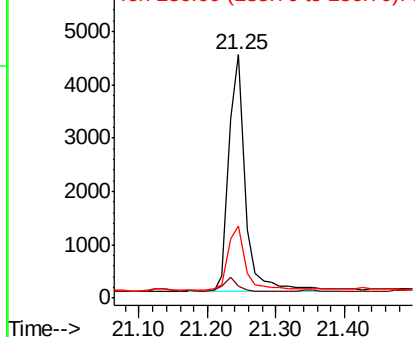
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 4.7   | 3.3   | 4.9   |
| 236     | 29.4  | 22.6  | 34.0  |

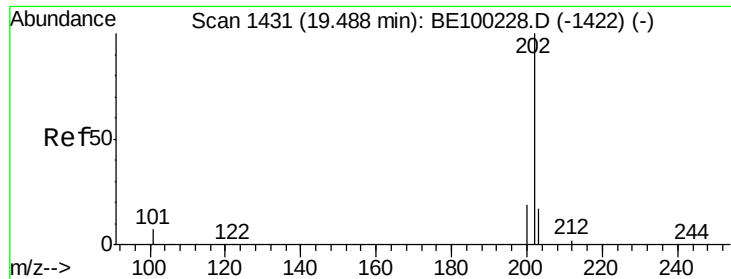
Abundance

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





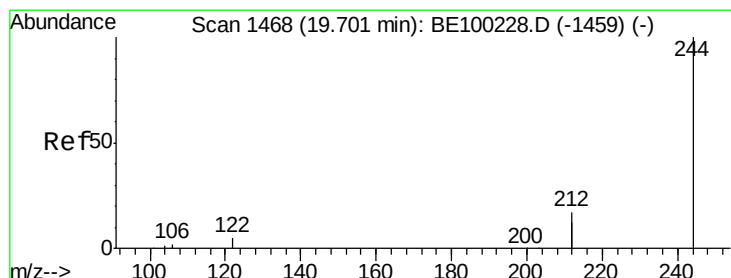
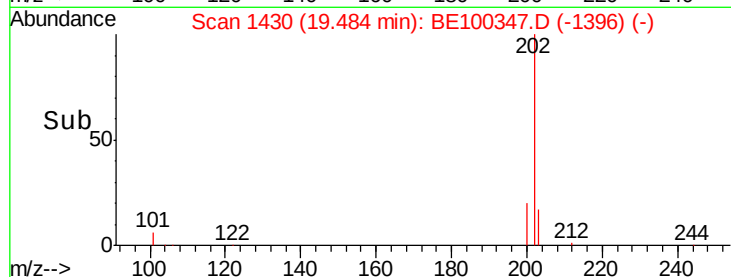
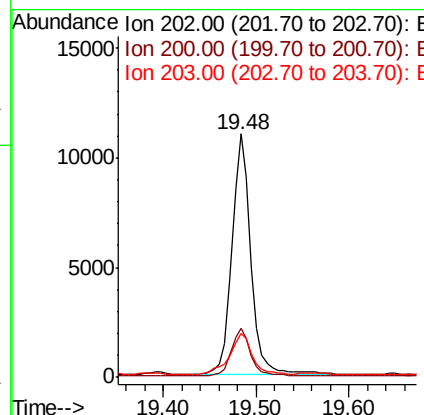
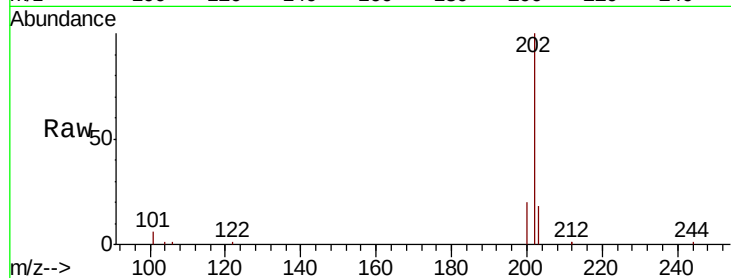
#28  
Pvrene  
Concen: 0.774 ng  
RT: 19.48 min Scan# 1430  
Delta R.T. -0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 19.9  | 15.6       | 23.4  |
| 203     | 20.0  | 14.0       | 21.0  |

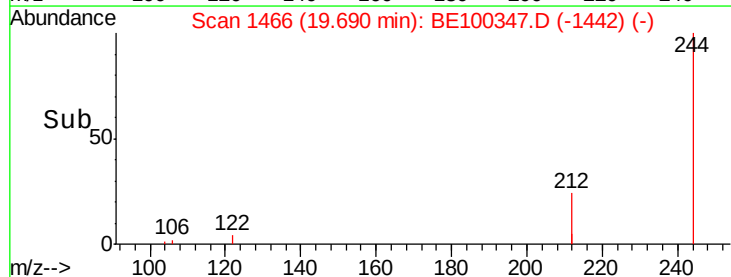
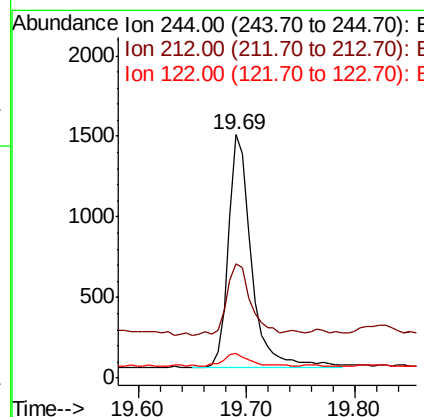
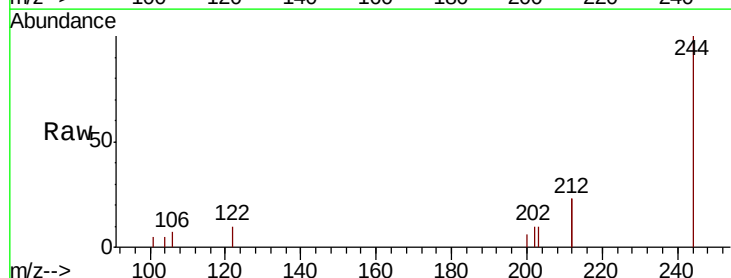
Manual Integrations  
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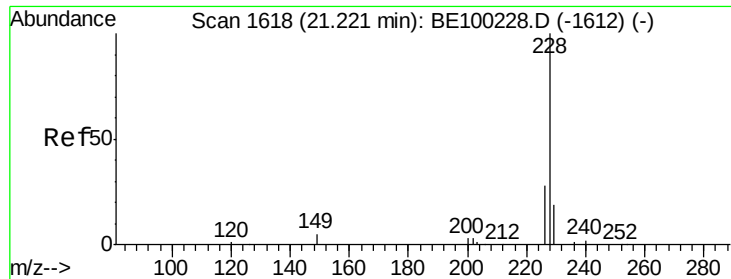
mohammad  
7/5/2019 8:55:09 AM



#29  
Terphenyl-d14  
Concen: 0.137 ng  
RT: 19.69 min Scan# 1466  
Delta R.T. -0.01 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 46.7  | 27.3       | 40.9# |
| 122     | 9.9   | 4.7        | 7.1#  |





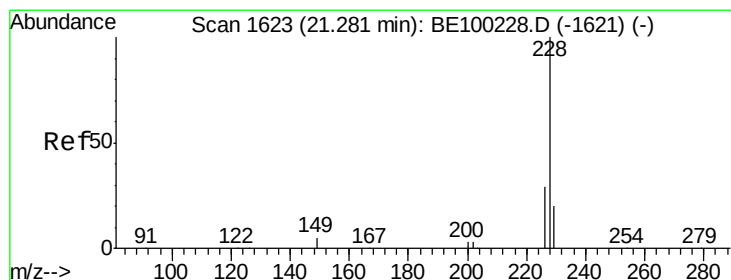
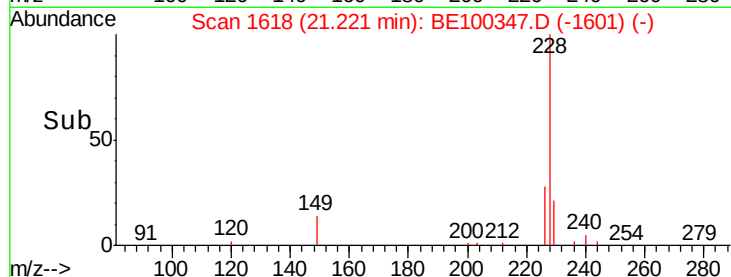
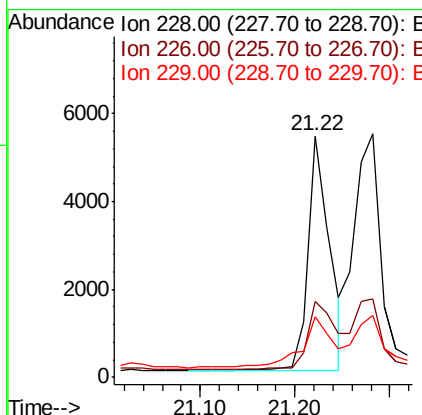
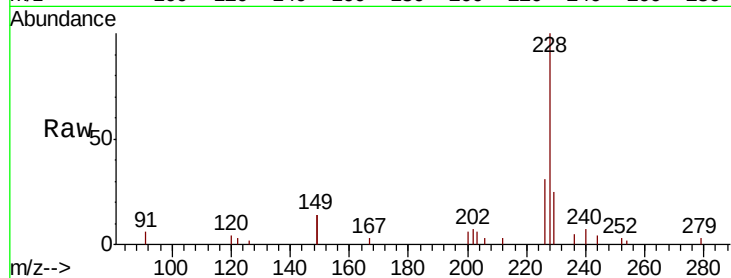
#30  
Benzo(a)anthracene  
Concen: 0.342 ng  
RT: 21.22 min Scan# 1618  
Delta R.T. 0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 23.2  | 34.8  |
| 229     | 24.8  | 15.7  | 23.5  |

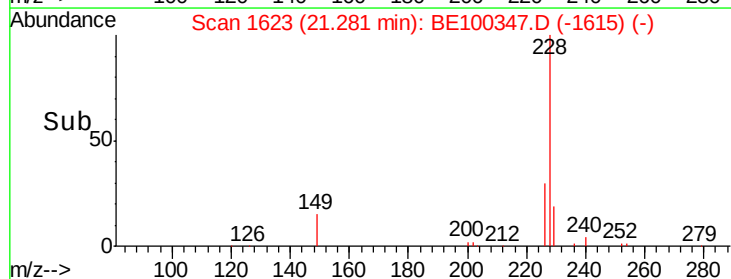
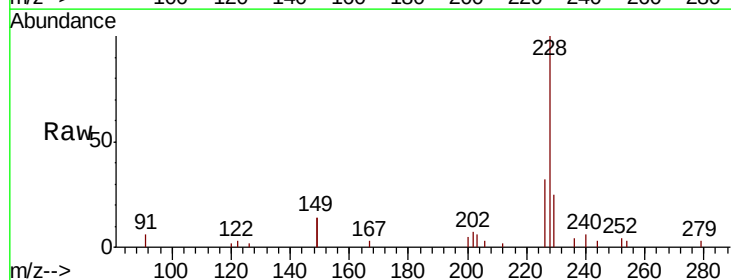
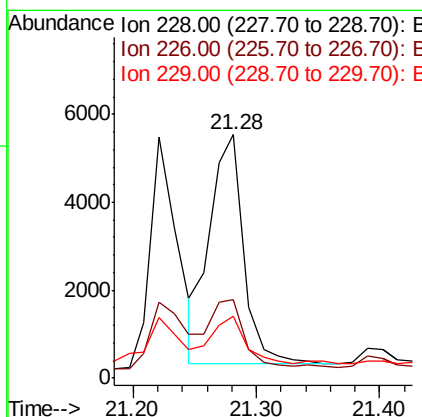
Manual Integrations  
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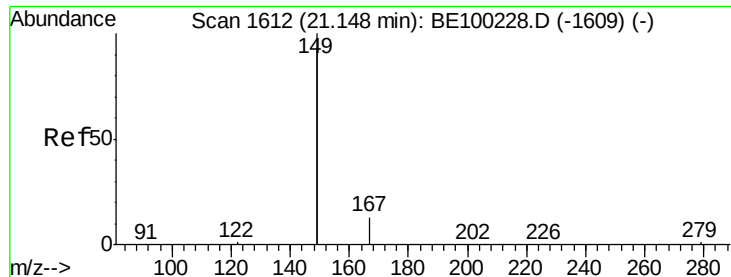
mohammad  
7/5/2019 8:55:09 AM



#31  
Chrysene  
Concen: 0.404 ng  
RT: 21.28 min Scan# 1623  
Delta R.T. 0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.1  | 23.9  | 35.9  |
| 229     | 25.4  | 16.5  | 24.7  |





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.427 ng

RT: 21.15 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA\_E

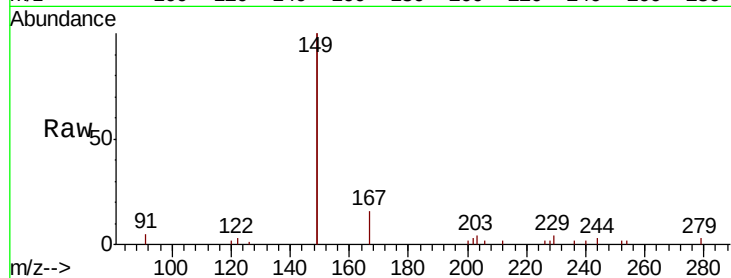
ClientSampleId :

PST-009-B223-062419

| Tot Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 149     | 100 |       |      |       |       |
| 167     | 7.5 |       | 5.8  | 8.8   |       |
| 279     | 1.4 |       | 1.1  | 1.7   |       |

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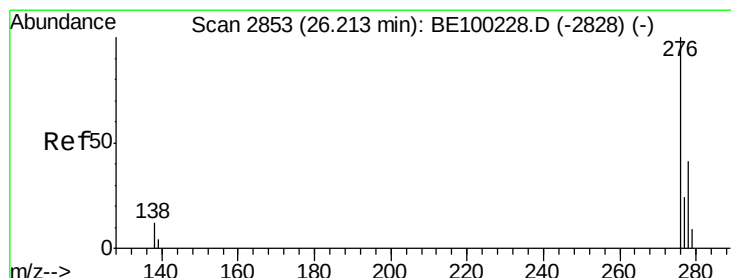
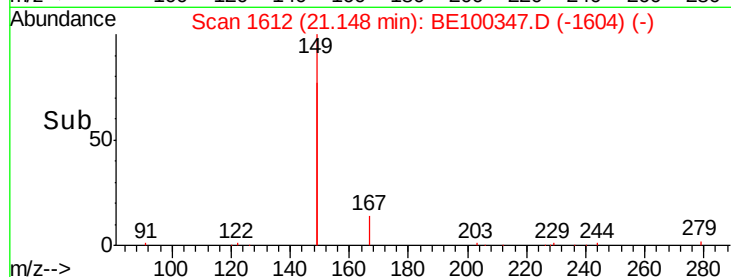
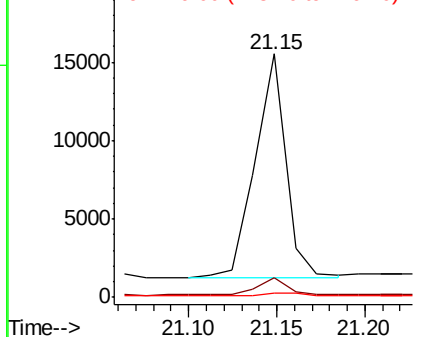


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.222 ng

RT: 26.22 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

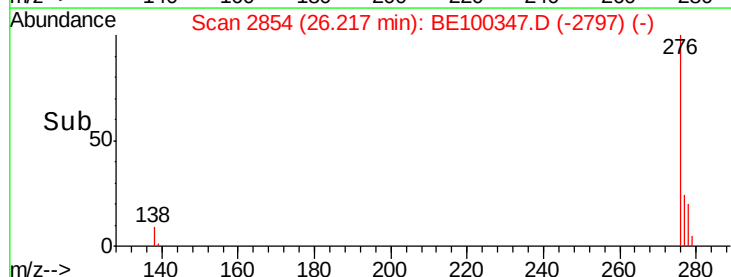
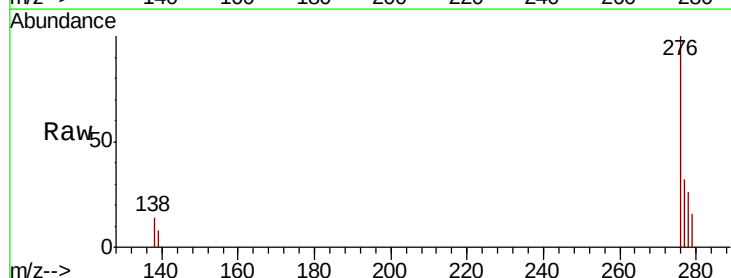
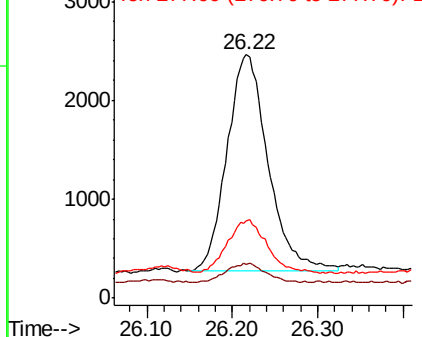
| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 276     | 100  |       |      |       |       |
| 138     | 8.5  |       | 9.4  | 14.0# |       |
| 277     | 24.0 |       | 19.2 | 28.8  |       |

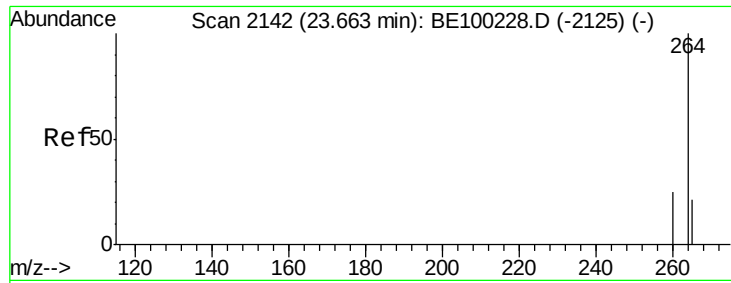
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





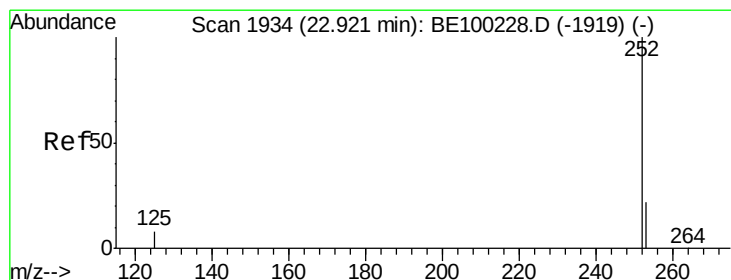
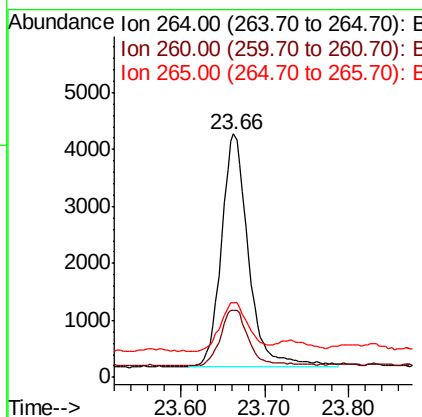
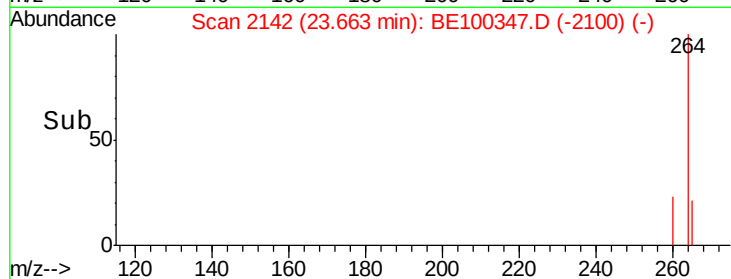
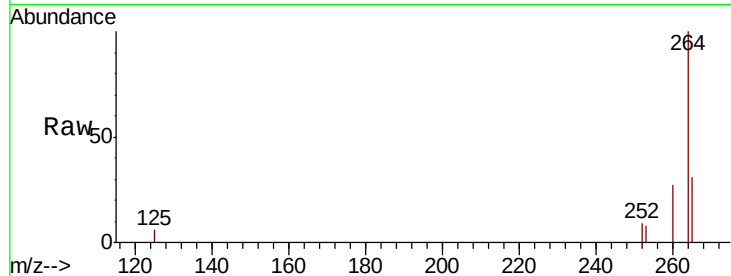
#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.66 min Scan# 2142  
 Delta R.T. -0.00 min  
 Lab File: BE100347.D  
 Acq: 4 Jul 2019 2:23

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-009-B223-062419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.5  | 20.8  | 31.2  |
| 265     | 30.9  | 21.8  | 32.6  |

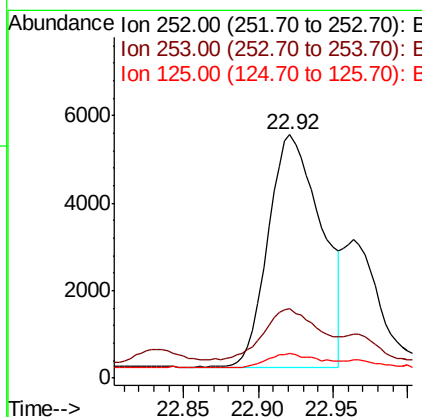
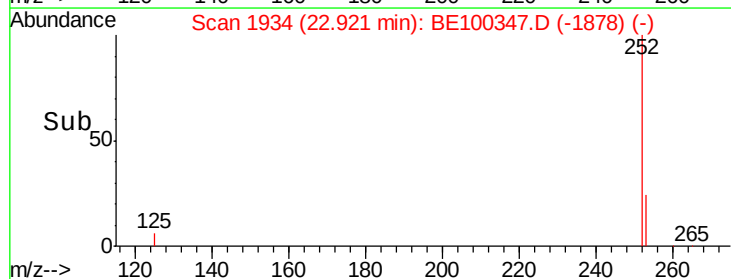
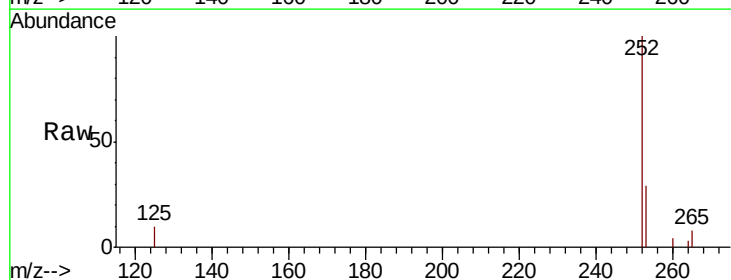
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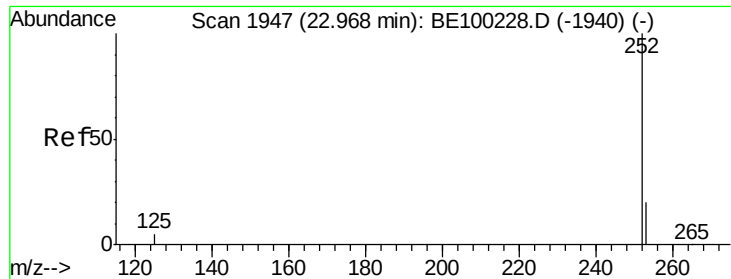
mohammad  
 7/5/2019 8:55:09 AM



#35  
 Benzo(b)fluoranthene  
 Concen: 0.527 ng  
 RT: 22.92 min Scan# 1934  
 Delta R.T. -0.00 min  
 Lab File: BE100347.D  
 Acq: 4 Jul 2019 2:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.8  | 19.2  | 28.8  |
| 125     | 10.0  | 7.4   | 11.0  |





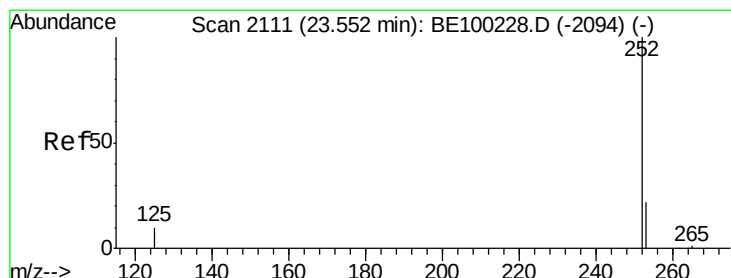
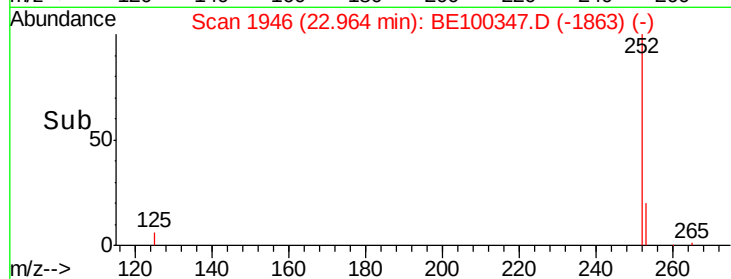
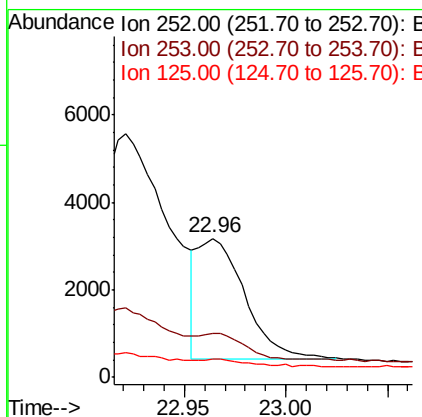
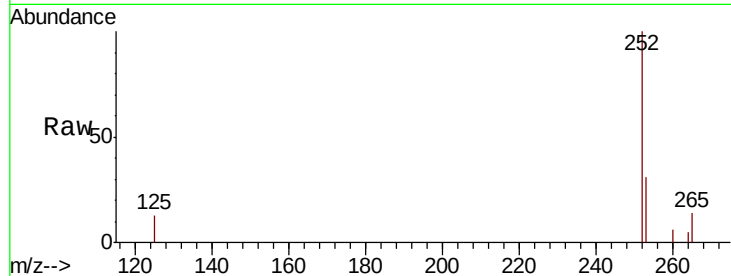
#36  
Benzo(k)fluoranthene  
Concen: 0.162 ng m  
RT: 22.96 min Scan# 1946  
Delta R.T. -0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Instrument :  
BNA\_E  
ClientSampleId :  
PST-009-B223-062419

Tot Ion:252 Resp: 4476  
Ion Ratio Lower Upper  
252 100  
253 31.4 17.9 26.9#  
125 12.8 5.0 7.4#

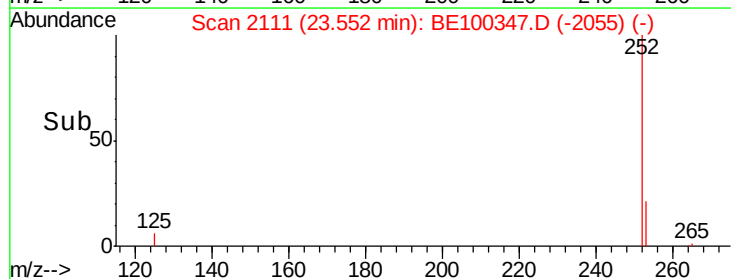
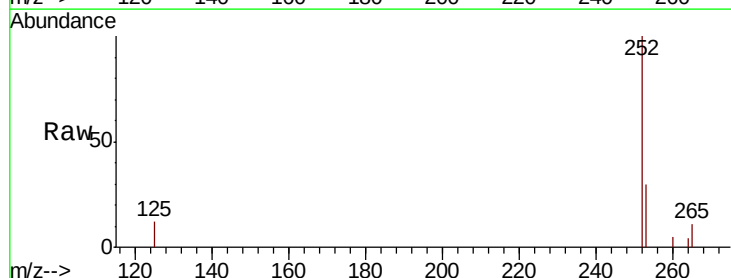
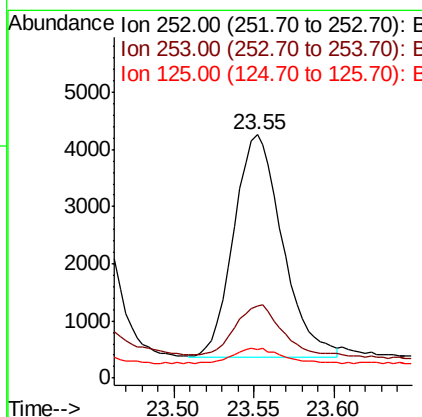
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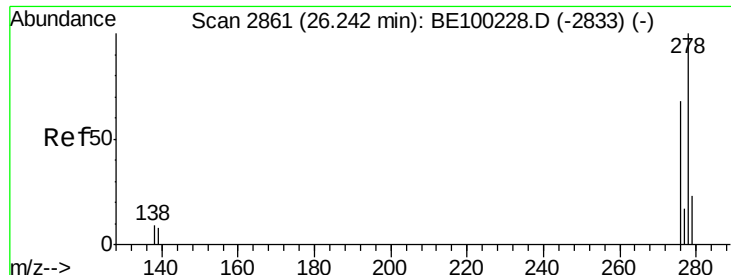
mohammad  
7/5/2019 8:55:09 AM



#37  
Benzo(a)pyrene  
Concen: 0.330 ng m  
RT: 23.55 min Scan# 2111  
Delta R.T. -0.00 min  
Lab File: BE100347.D  
Acq: 4 Jul 2019 2:23

Tgt Ion:252 Resp: 8210  
Ion Ratio Lower Upper  
252 100  
253 29.5 19.6 29.4#  
125 11.9 9.0 13.6





#38

Dibenzo(a,h)anthracene

Concen: 0.068 ng

RT: 26.22 min Scan# 2855

Delta R.T. -0.02 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA\_E

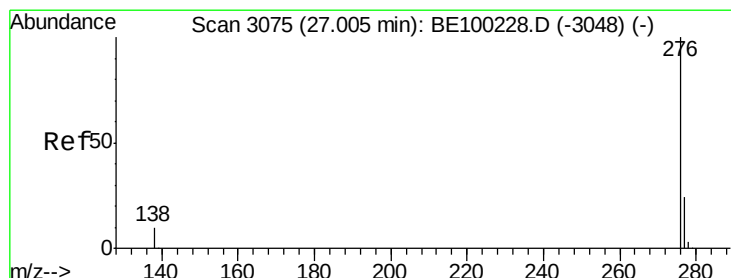
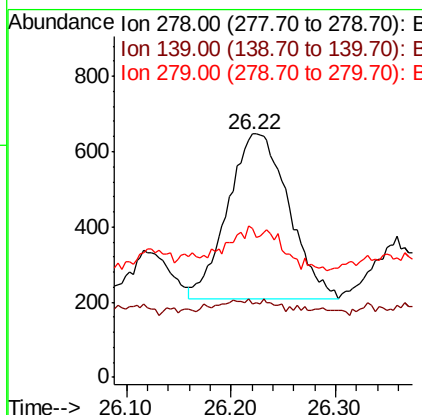
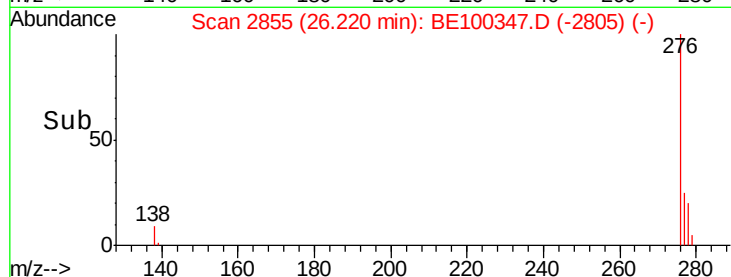
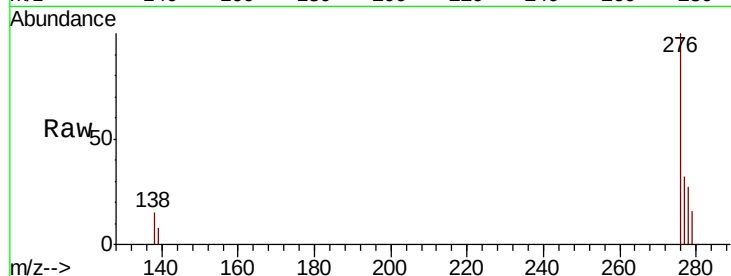
ClientSampleId :

PST-009-B223-062419

|             |       |            |
|-------------|-------|------------|
| Tot Ion:278 | Resp: | 1774       |
| Ion Ratio   | Lower | Upper      |
| 278         | 100   |            |
| 139         | 30.3  | 8.2 12.2#  |
| 279         | 61.2  | 20.3 30.5# |

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#39

Benzo(g,h,i)perylene

Concen: 0.353 ng

RT: 27.00 min Scan# 3075

Delta R.T. -0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 9422      |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 277         | 29.7  | 20.2 30.2 |
| 138         | 13.6  | 9.0 13.6# |

