

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101819\  
 Data File : BE100655.D  
 Acq On : 18 Oct 2019 11:09  
 Operator : JU  
 Sample : K4995-02 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-SW167-091819-2

Manual Integrations  
 APPROVED

mohammad  
 10/20/2019 8:05:05 PM

Quant Time: Oct 18 15:12:11 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 10 14:01:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 7465     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.64 | 136  | 31742    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.47 | 164  | 19898    | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.20 | 188  | 38908    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.37 | 240  | 43725    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.85 | 264  | 49606    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.46  | 112 | 986   | 0.04 | ng | 0.01  |
| 5) Phenol-d6                | 7.02  | 99  | 1406  | 0.04 | ng | 0.01  |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 1183  | 0.06 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 2065  | 0.04 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.94 | 330 | 300   | 0.06 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.10 | 172 | 2687  | 0.04 | ng | -0.02 |
| 25) Fluoranthene-d10        | 19.23 | 212 | 18199 | 0.04 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.82 | 244 | 6083  | 0.06 | ng | 0.00  |

|                                |       |     |         |        |        |      |
|--------------------------------|-------|-----|---------|--------|--------|------|
| Target Compounds               |       |     |         |        | Qvalue |      |
| 9) Naphthalene                 | 10.68 | 128 | 173008  | 0.518  | ng     | 99   |
| 12) 2-Methylnaphthalene        | 12.29 | 142 | 40851   | 0.718  | ng     | 95   |
| 16) Acenaphthylene             | 14.20 | 152 | 416296  | 4.862  | ng     | 98   |
| 17) Acenaphthene               | 14.54 | 154 | 31916   | 0.577  | ng     | 96   |
| 18) Fluorene                   | 15.51 | 166 | 116850  | 1.590  | ng     | # 85 |
| 23) Phenanthrene               | 17.24 | 178 | 1772282 | 16.560 | ng     | 99   |
| 24) Anthracene                 | 17.34 | 178 | 353850  | 3.563  | ng     | 99   |
| 26) Fluoranthene               | 19.26 | 202 | 2293802 | 16.422 | ng     | 97   |
| 28) Pyrene                     | 19.62 | 202 | 2970347 | 24.315 | ng     | # 94 |
| 30) Benzo(a)anthracene         | 21.35 | 228 | 1480120 | 10.377 | ng     | # 89 |
| 31) Chrysene                   | 21.40 | 228 | 1530147 | 10.735 | ng     | 95   |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 50354   | 0.169  | ng     | # 97 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.48 | 276 | 786513  | 4.489  | ng     | 96   |
| 35) Benzo(b)fluoranthene       | 23.10 | 252 | 1479032 | 10.225 | ng     | 98   |
| 36) Benzo(k)fluoranthene       | 23.14 | 252 | 441901m | 2.970  | ng     |      |
| 37) Benzo(a)pyrene             | 23.74 | 252 | 1200419 | 8.916  | ng     | 98   |
| 38) Dibenzo(a,h)anthracene     | 26.49 | 278 | 218378  | 1.569  | ng     | # 91 |
| 39) Benzo(a,h,i)perylene       | 27.29 | 276 | 877512  | 6.270  | ng     | 98   |

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

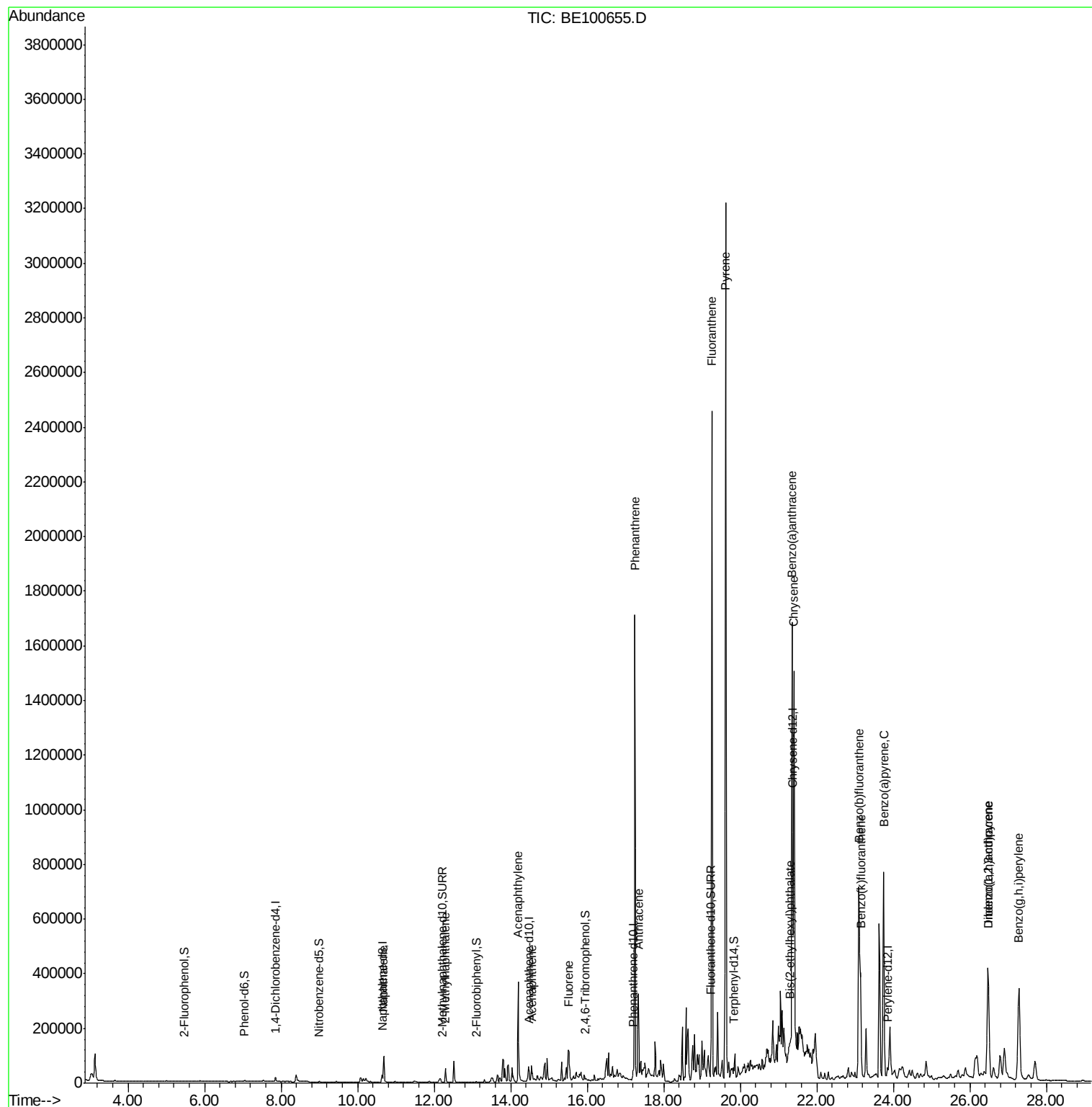
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101819\  
Data File : BE100655.D  
Acq On : 18 Oct 2019 11:09  
Operator : JU  
Sample : K4995-02 5X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

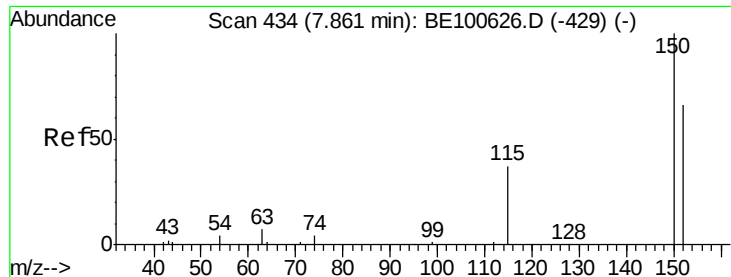
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

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Quant Time: Oct 18 15:12:11 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 10 14:01:52 2019  
Response via : Initial Calibration





#1

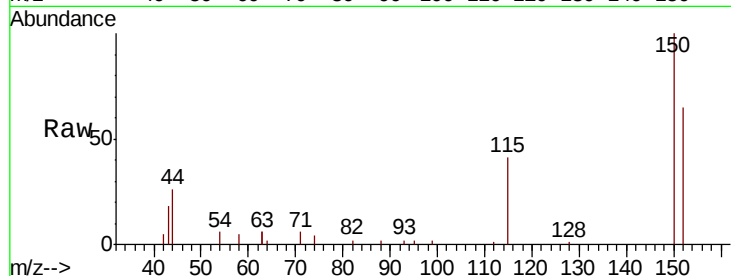
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.9 | 120.7 | 181.1 |
| 115     | 62.8  | 48.0  | 72.0  |

Manual Integrations  
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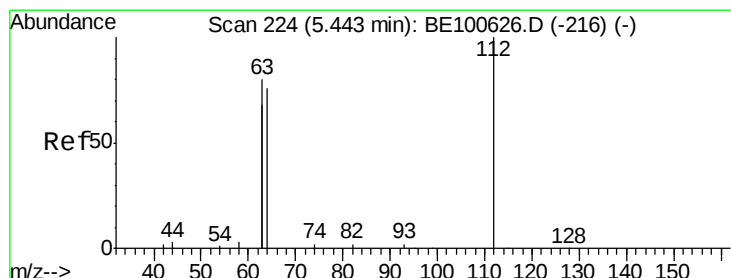
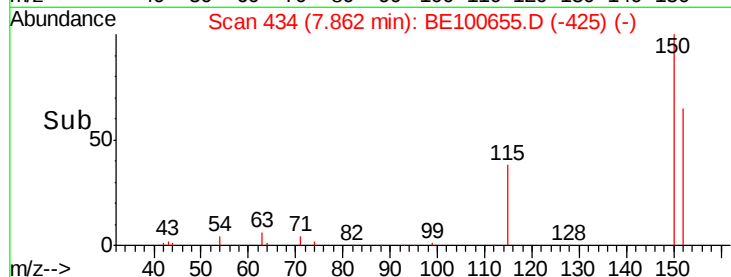
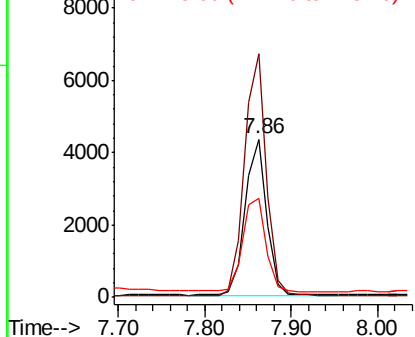


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

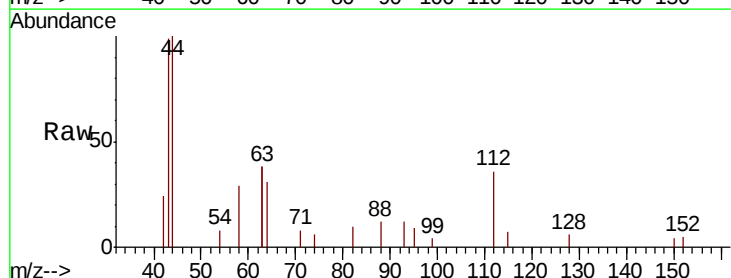
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.043 ng  
RT: 5.46 min Scan# 225  
Delta R.T. 0.01 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 73.6  | 58.9  | 88.3  |
| 63      | 186.8 | 118.3 | 177.5 |

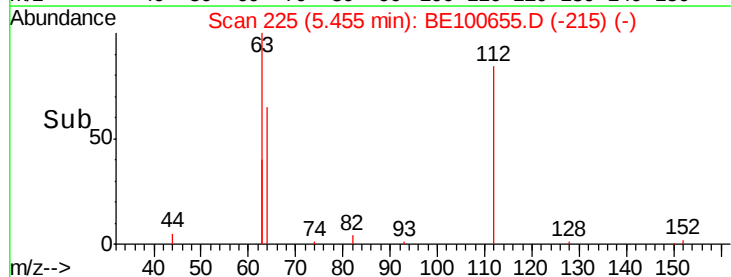
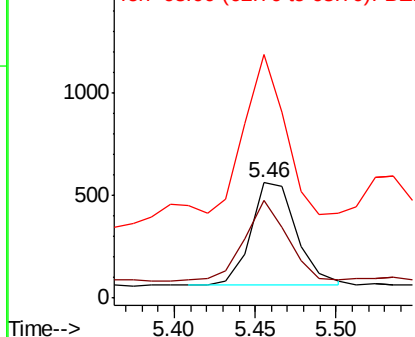


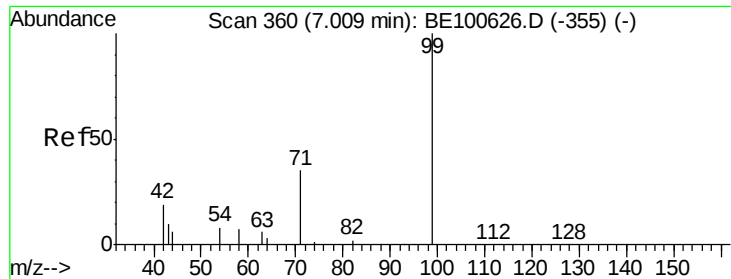
Abundance

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: 0.043 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

Instrument :

BNA\_E

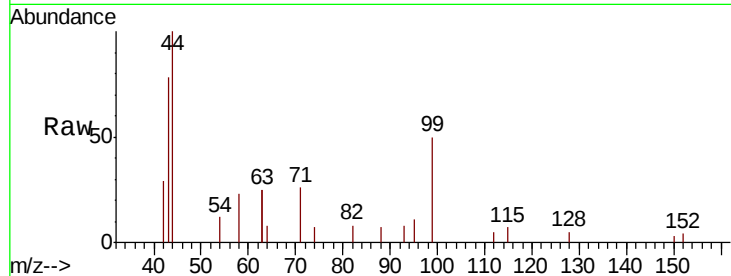
ClientSampleId :

EXT-SW167-091819-2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1406  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 46.1  | 19.4  | 29.2# |
| 71       | 50.7  | 26.9  | 40.3# |

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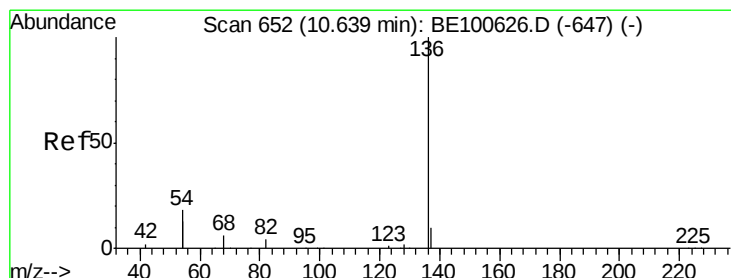
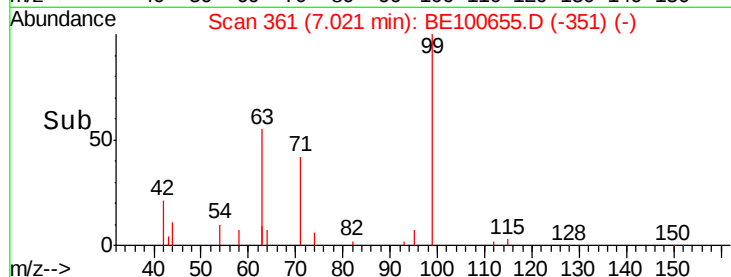
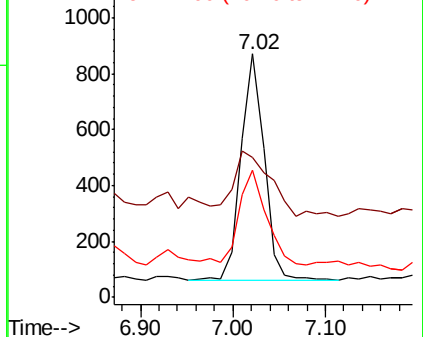


Abundance

Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. 0.00 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 31742 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 8.6   | 13.0  |
| 54       | 28.9  | 28.7  | 43.1  |
| 68       | 6.8   | 5.9   | 8.9   |

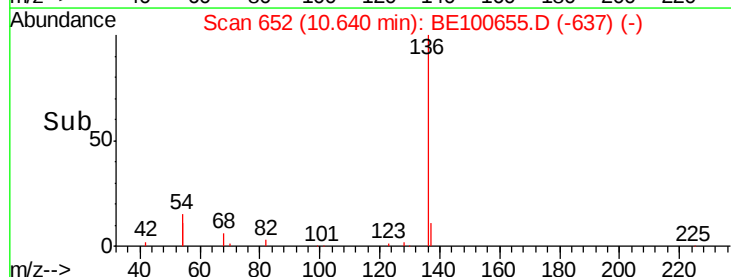
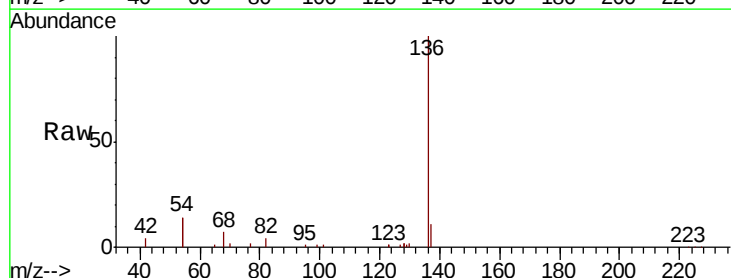
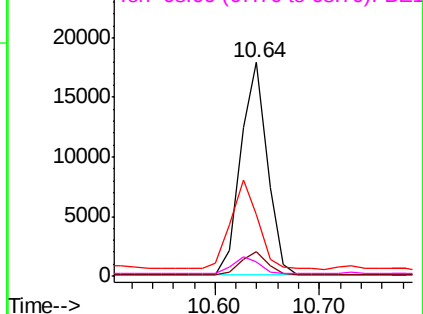
Abundance

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





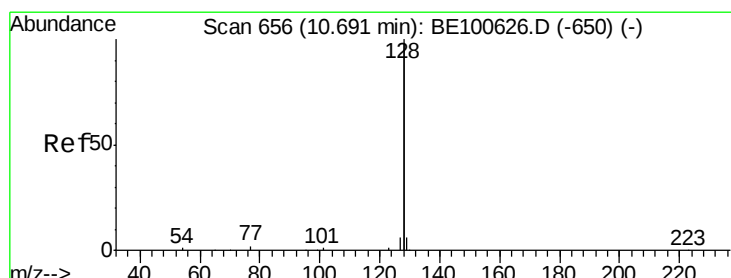
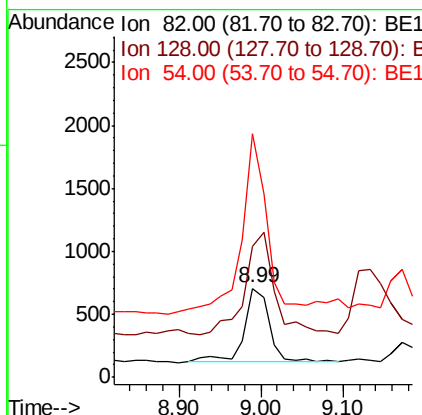
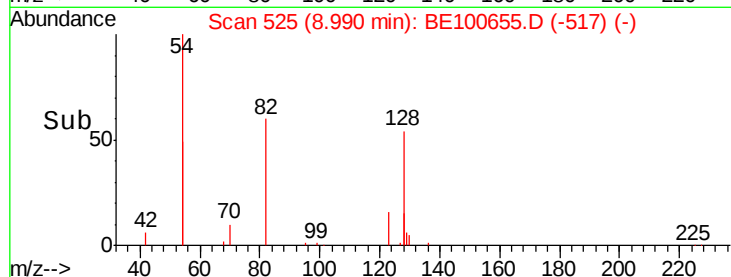
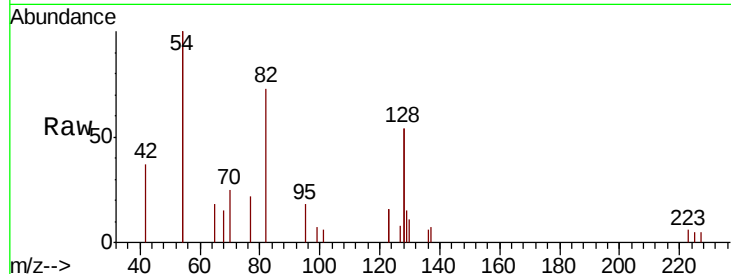
#8  
 Nitrobenzene-d5  
 Concen: 0.060 ng  
 RT: 8.99 min Scan# 525  
 Delta R.T. 0.00 min  
 Lab File: BE100655.D  
 Acq: 18 Oct 2019 11:09

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 82      | 100   |       |        |
| 128     | 147.5 | 90.7  | 136.1# |
| 54      | 274.3 | 210.9 | 316.3  |

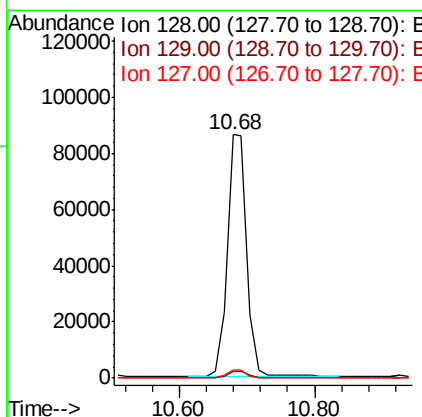
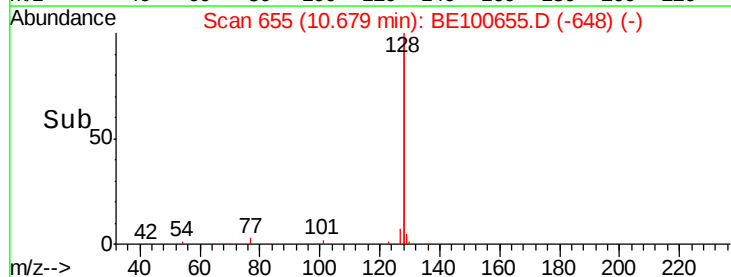
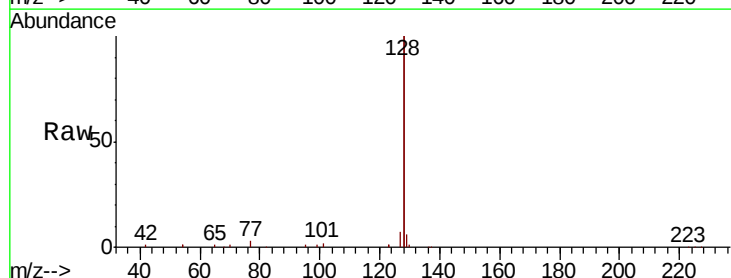
Manual Integrations  
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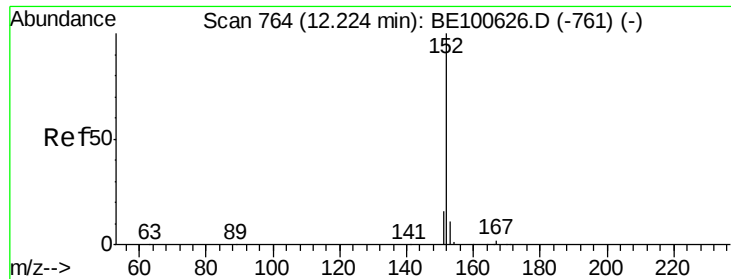
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#9  
 Naphthalene  
 Concen: 0.518 ng  
 RT: 10.68 min Scan# 655  
 Delta R.T. -0.01 min  
 Lab File: BE100655.D  
 Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 2.8   | 2.4   | 3.6   |
| 127     | 3.5   | 2.6   | 3.8   |





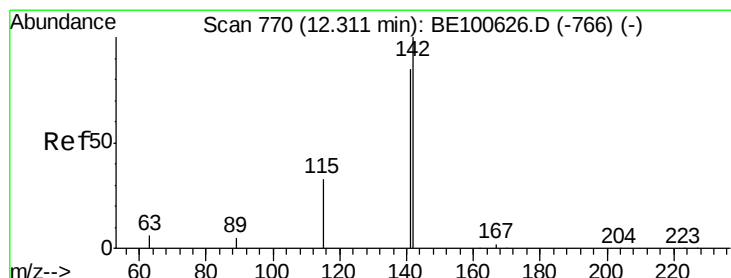
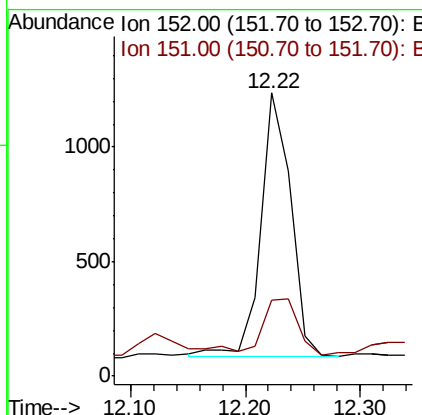
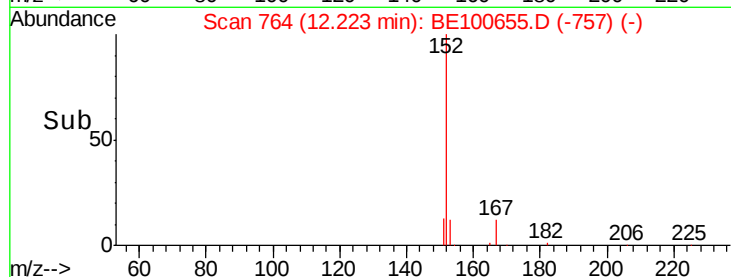
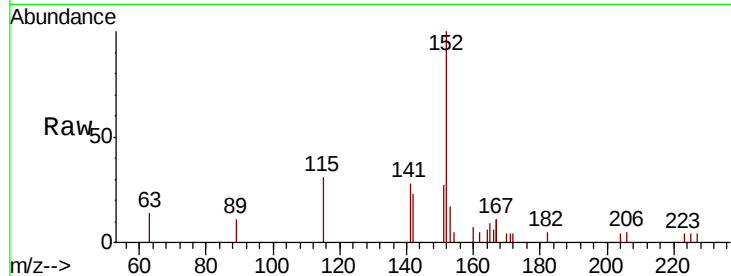
#11  
2-Methylnaphthalene-d10  
Concen: 0.041 ng  
RT: 12.22 min Scan# 764  
Delta R.T. -0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 22.4  | 15.2  | 22.8  |

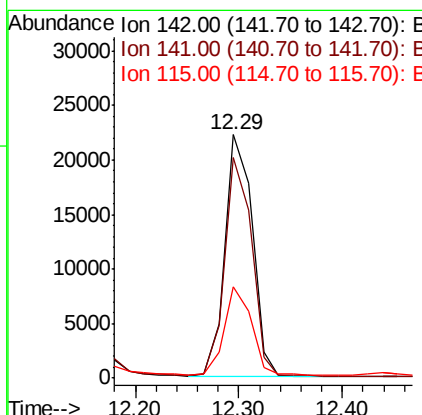
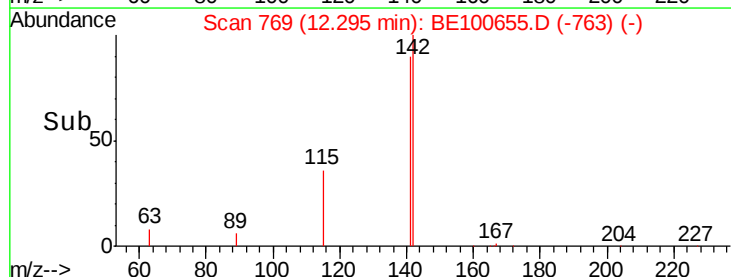
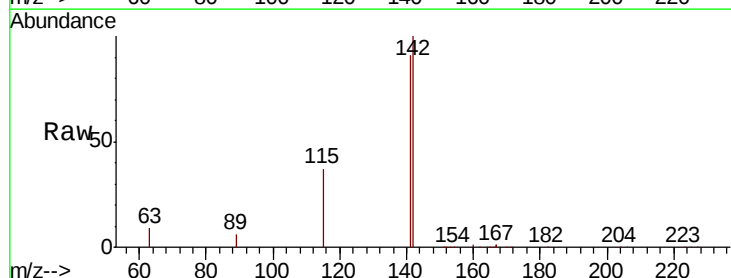
Manual Integrations  
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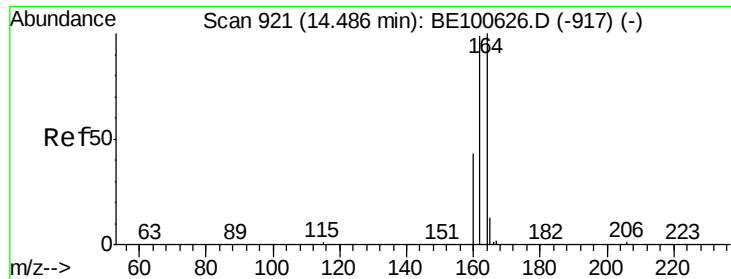
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#12  
2-Methylnaphthalene  
Concen: 0.718 ng  
RT: 12.29 min Scan# 769  
Delta R.T. -0.02 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.6  | 68.3  | 102.5 |
| 115     | 37.3  | 27.5  | 41.3  |





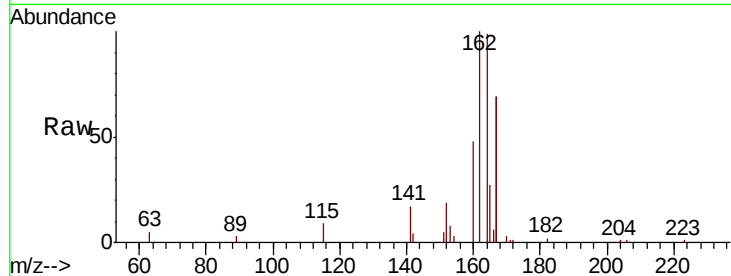
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.47 min Scan# 920  
Delta R.T. -0.02 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 79.1  | 118.7 |
| 160     | 47.9  | 34.7  | 52.1  |

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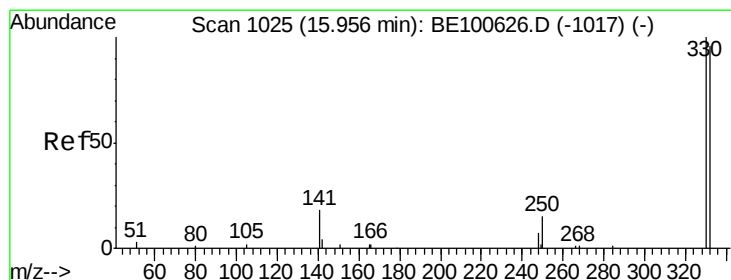
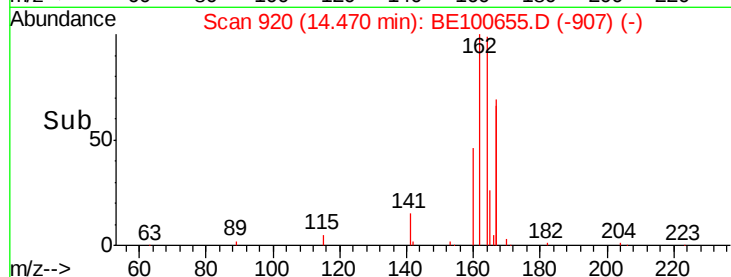
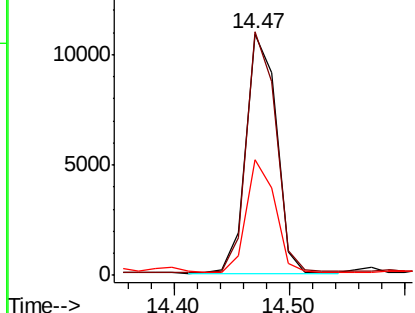


Abundance

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: 0.057 ng  
RT: 15.94 min Scan# 1024  
Delta R.T. -0.01 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

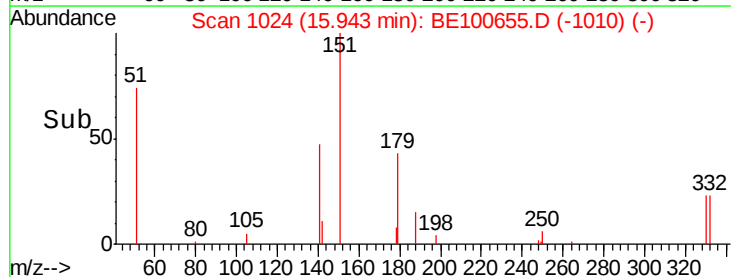
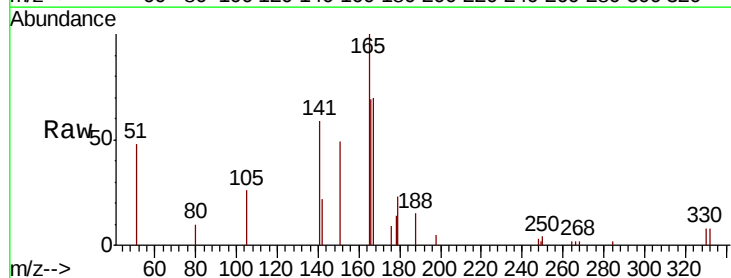
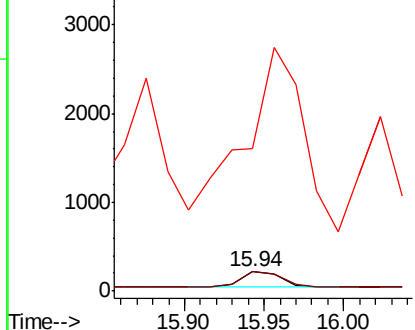
| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 330     | 100    |       |       |
| 332     | 100.3  | 75.2  | 112.8 |
| 141     | 1772.3 | 37.5  | 56.3# |

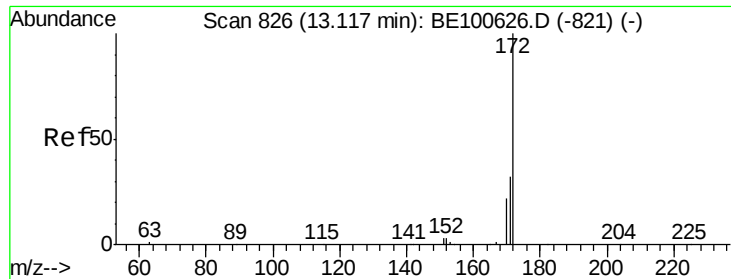
Abundance

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





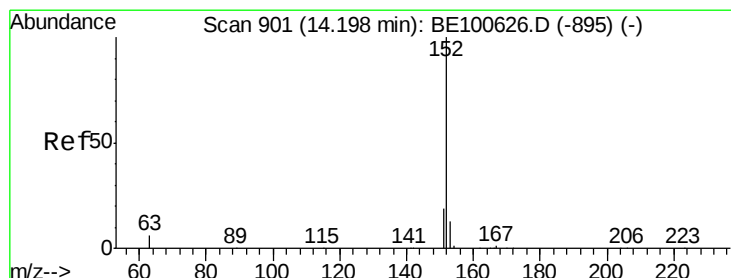
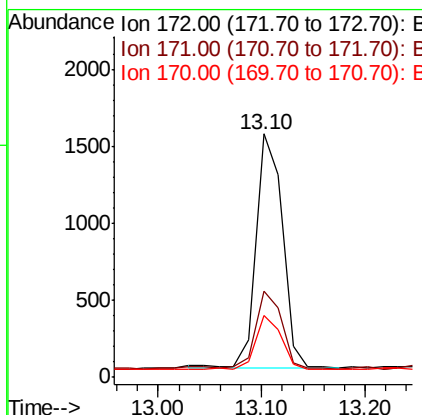
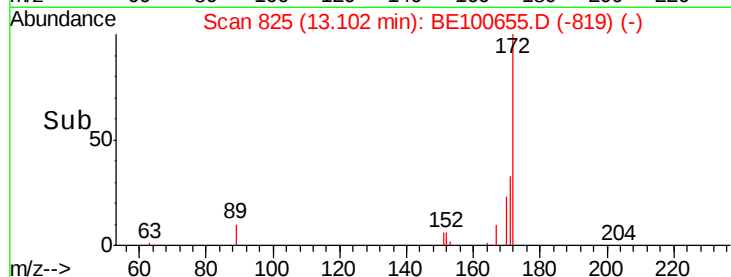
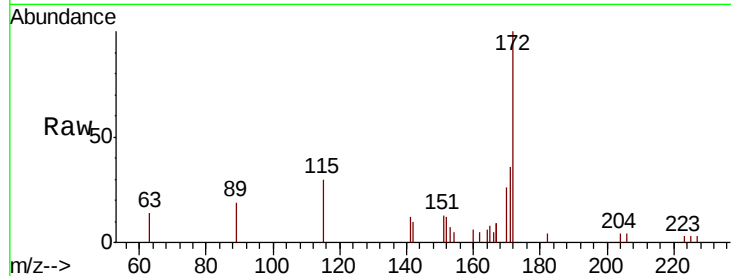
#15  
2-Fluorobiphenyl  
Concen: 0.037 ng  
RT: 13.10 min Scan# 825  
Delta R.T. -0.02 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 26.2  | 39.4  |
| 170     | 25.6  | 17.5  | 26.3  |

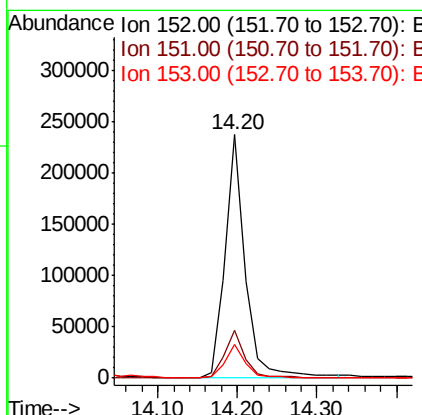
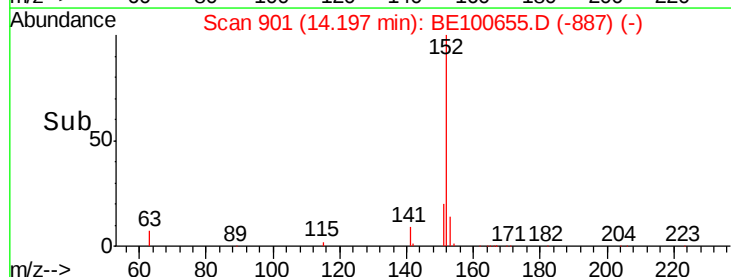
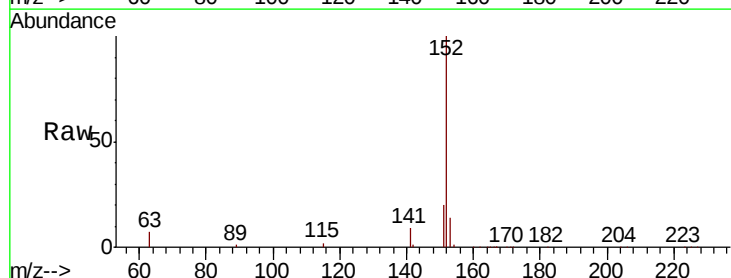
Manual Integrations  
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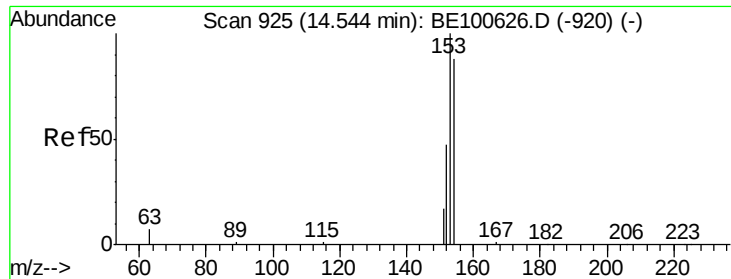
mohammad  
10/20/2019 8:05:05 PM



#16  
Acenaphthylene  
Concen: 4.862 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.9  | 15.6  | 23.4  |
| 153     | 14.2  | 10.5  | 15.7  |





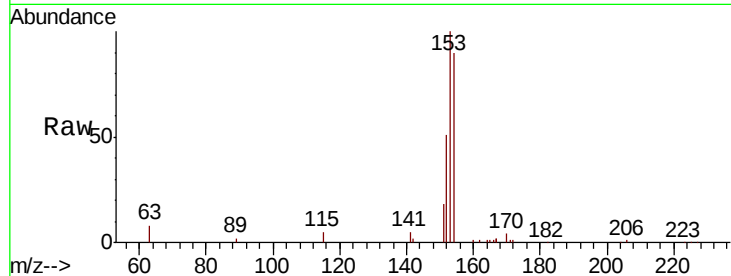
#17  
Acenaphthene  
Concen: 0.577 ng  
RT: 14.54 min Scan# 925  
Delta R.T. -0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 117.0 | 91.4  | 137.2 |
| 152     | 59.3  | 44.0  | 66.0  |

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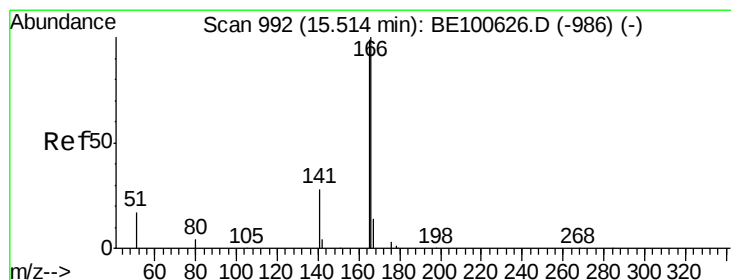
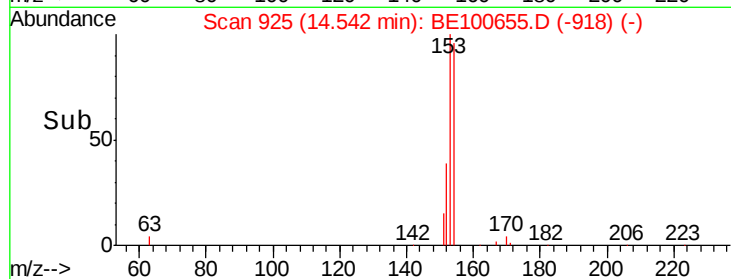
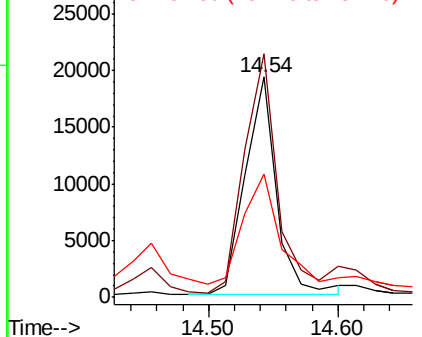


Abundance

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: 1.590 ng  
RT: 15.51 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

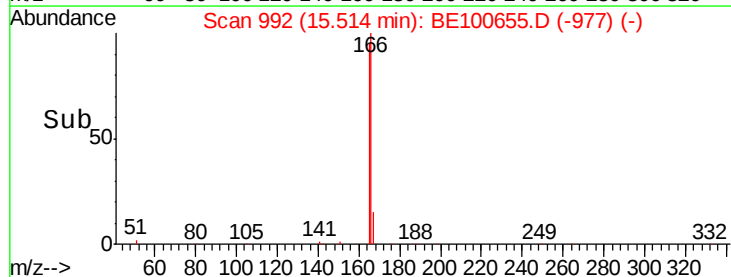
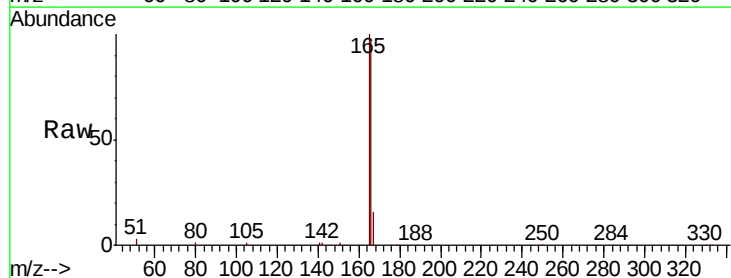
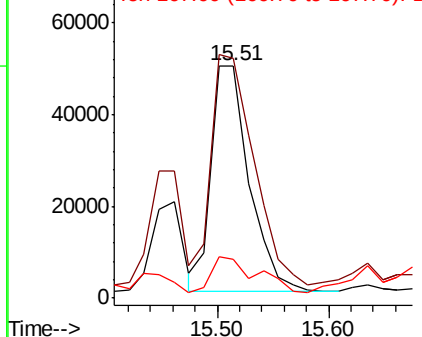
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 114.1 | 78.9  | 118.3 |
| 167     | 19.1  | 10.9  | 16.3# |

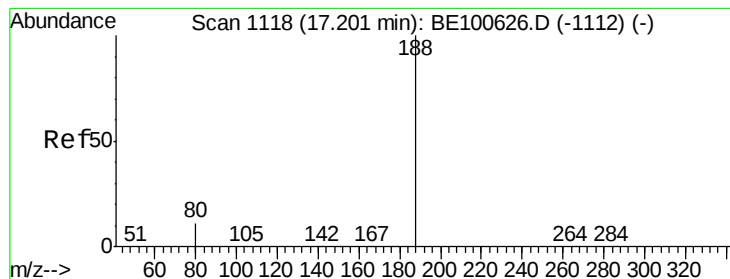
Abundance

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: 17.20 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

Instrument :

BNA\_E

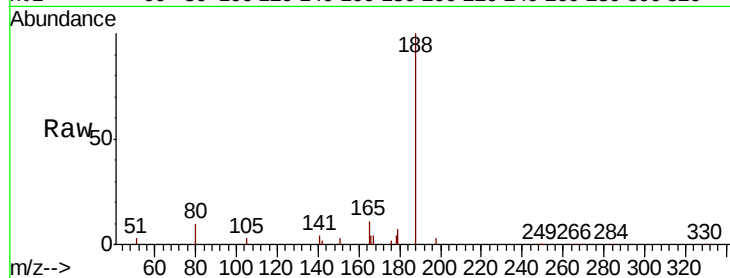
ClientSampleId :

EXT-SW167-091819-2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 38908 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 9.7   | 9.4   | 14.2  |

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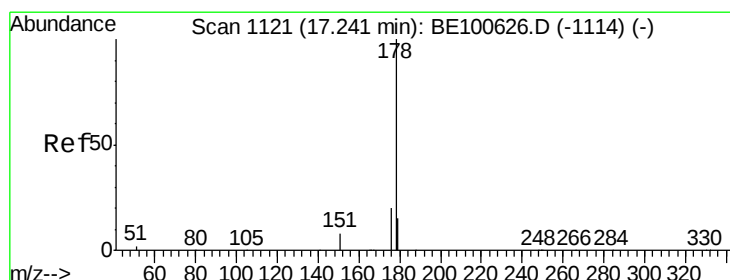
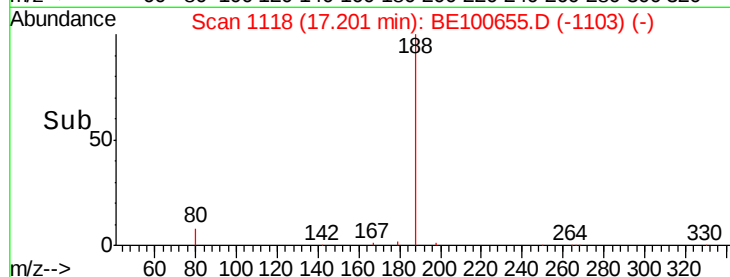
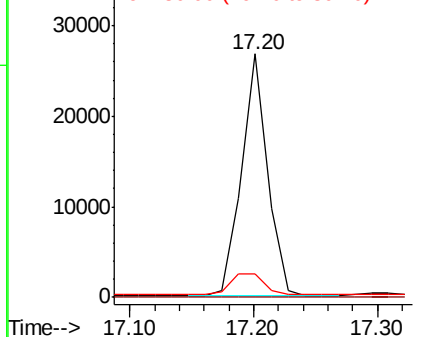
mohammad  
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#23

Phenanthrene

Concen: 16.560 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.00 min

Lab File: BE100655.D

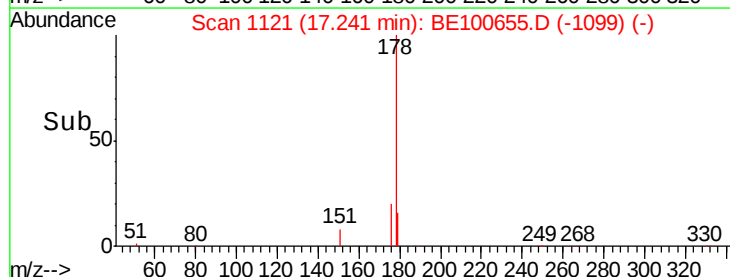
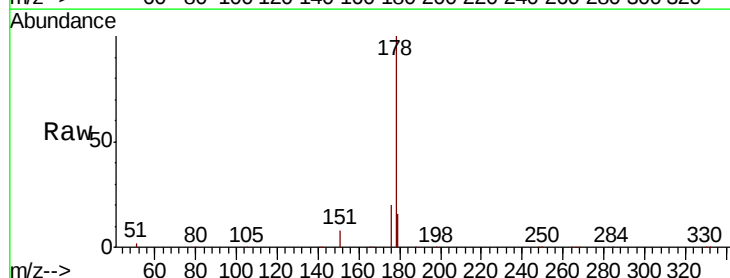
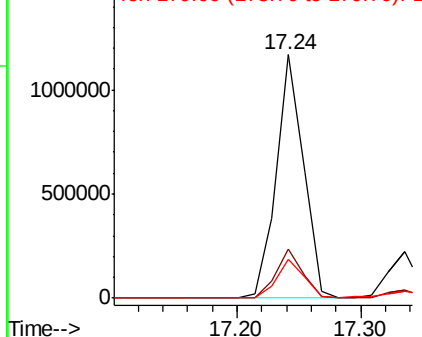
Acq: 18 Oct 2019 11:09

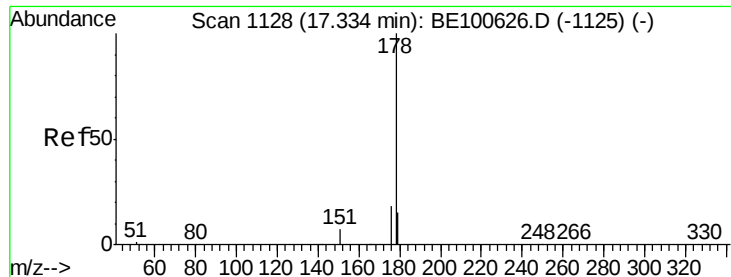
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1772282 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 176       | 19.8  | 15.6  | 23.4    |
| 179       | 16.0  | 12.4  | 18.6    |

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 3.563 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

Instrument :

BNA\_E

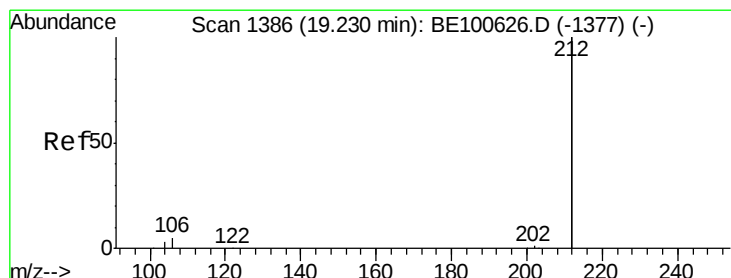
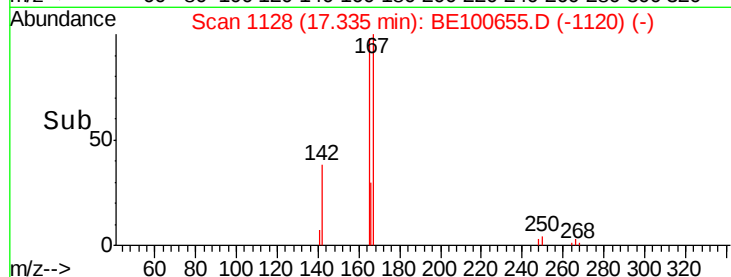
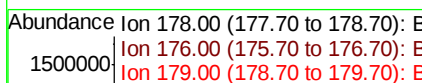
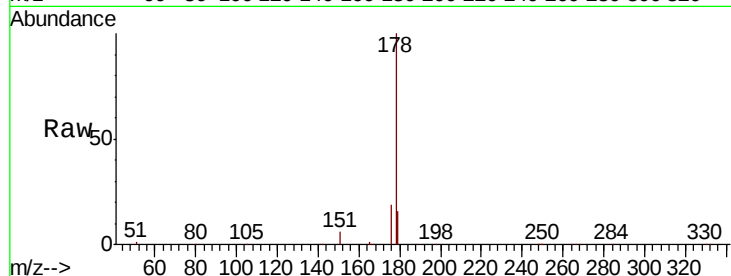
ClientSampleId :

EXT-SW167-091819-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 353850 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.6  | 14.5  | 21.7   |
| 179       | 15.7  | 12.4  | 18.6   |

Manual Integrations  
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#25

Fluoranthene-d10

Concen: 0.036 ng

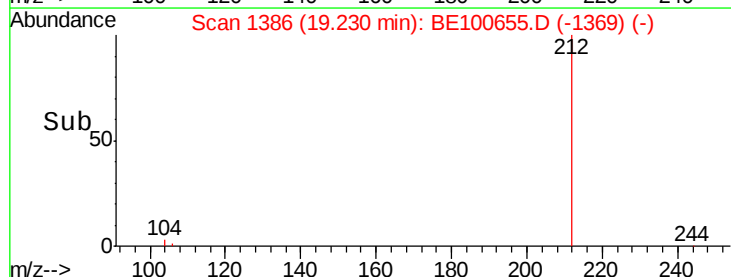
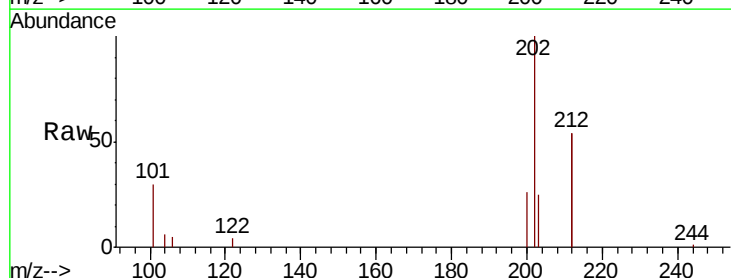
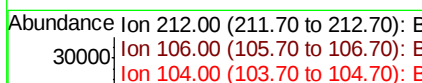
RT: 19.23 min Scan# 1386

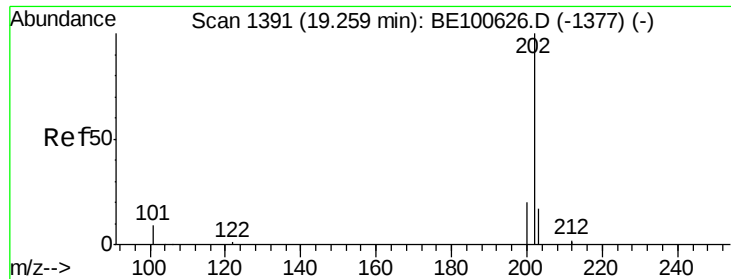
Delta R.T. -0.00 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 18199 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 1.6   | 2.2   | 3.4#  |
| 104       | 0.0   | 1.3   | 1.9#  |





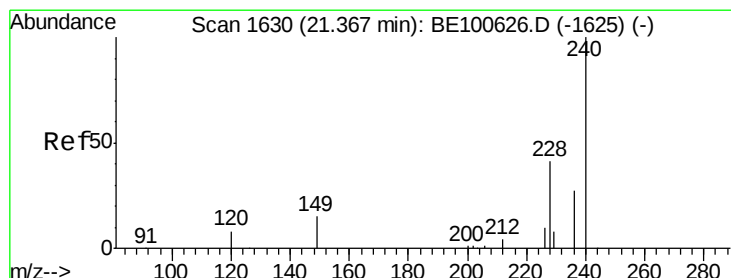
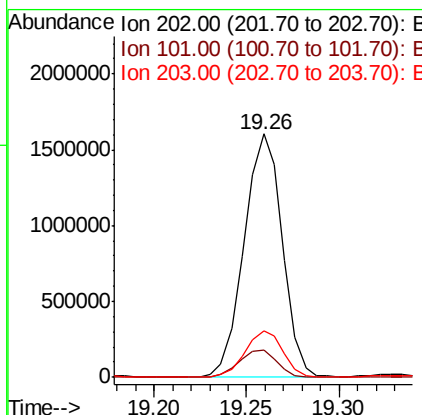
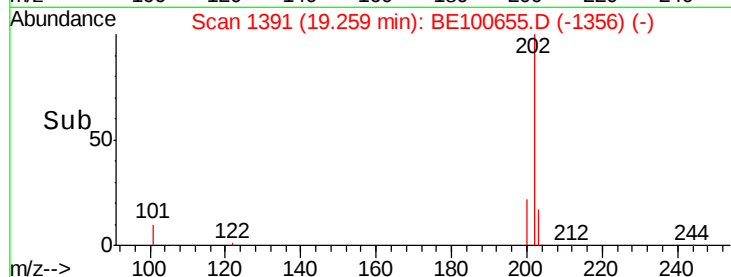
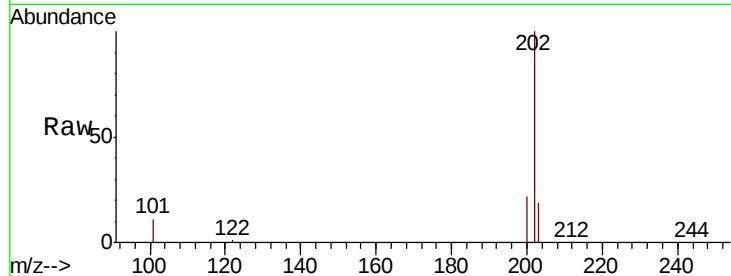
#26  
 Fluoranthene  
 Concen: 16.422 ng  
 RT: 19.26 min Scan# 1391  
 Delta R.T. -0.00 min  
 Lab File: BE100655.D  
 Acq: 18 Oct 2019 11:09

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.1  | 8.4   | 12.6  |
| 203     | 18.6  | 13.8  | 20.6  |

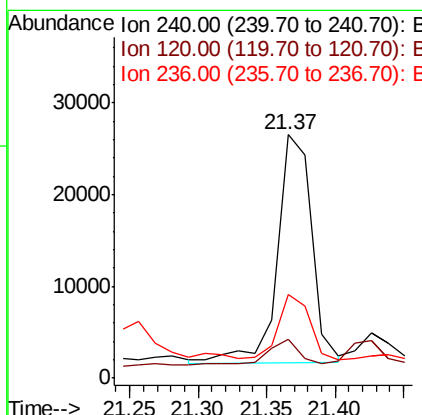
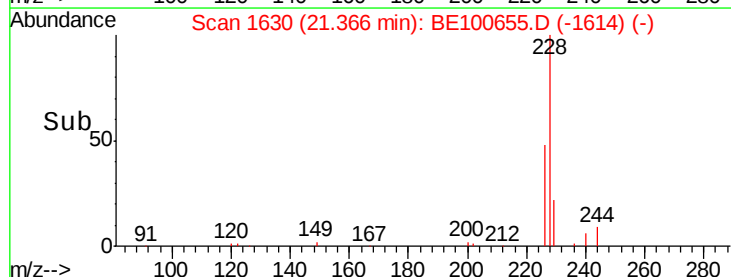
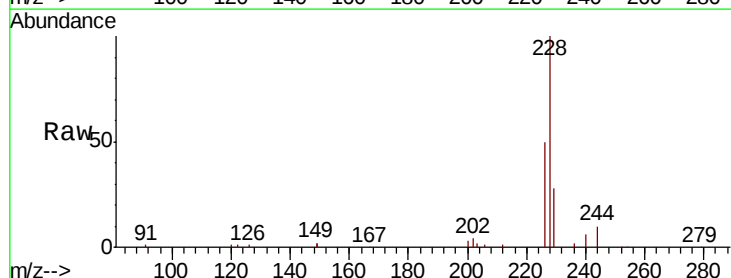
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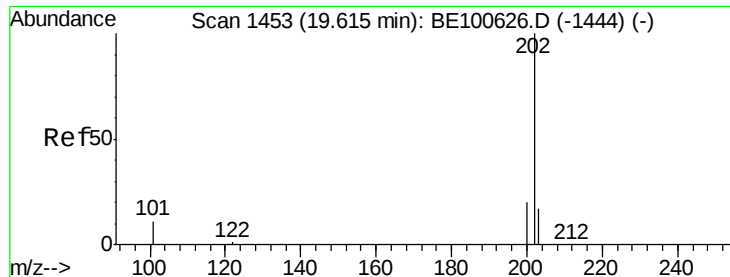
mohammad  
 10/20/2019 8:05:05 PM



#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.37 min Scan# 1630  
 Delta R.T. -0.00 min  
 Lab File: BE100655.D  
 Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 16.0  | 7.4   | 11.0# |
| 236     | 34.4  | 21.7  | 32.5# |





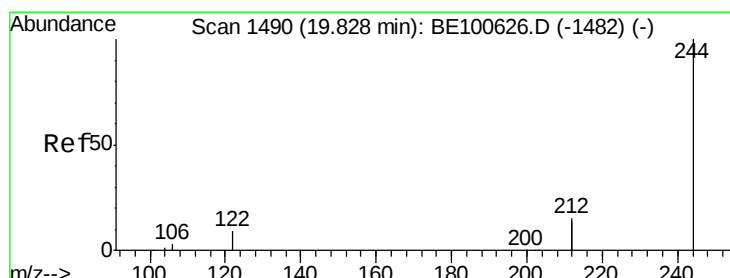
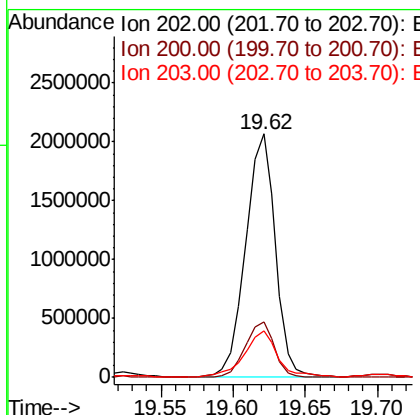
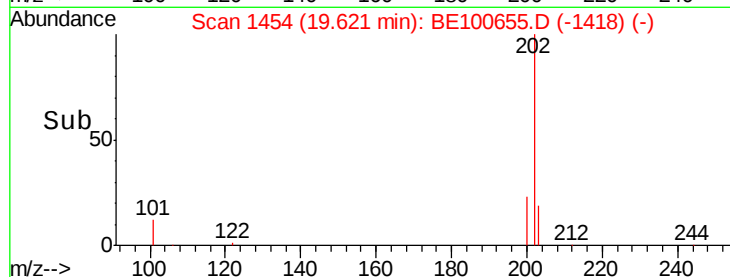
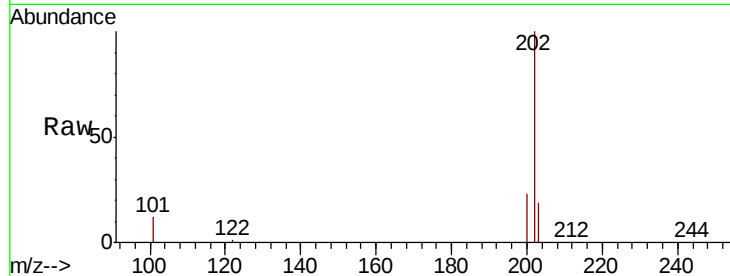
#28  
Pvrene  
Concen: 24.315 ng  
RT: 19.62 min Scan# 1454  
Delta R.T. 0.01 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

Tot Ion:202 Resp: 2970347  
Ion Ratio Lower Upper  
202 100  
200 22.3 16.6 24.8  
203 21.2 13.9 20.9#

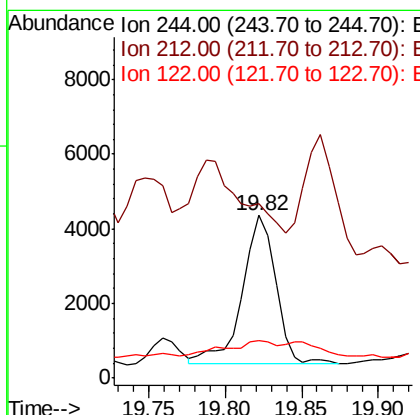
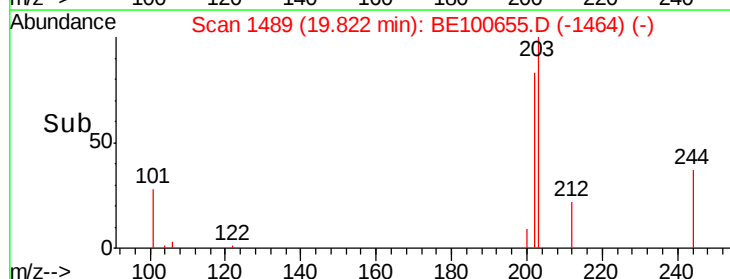
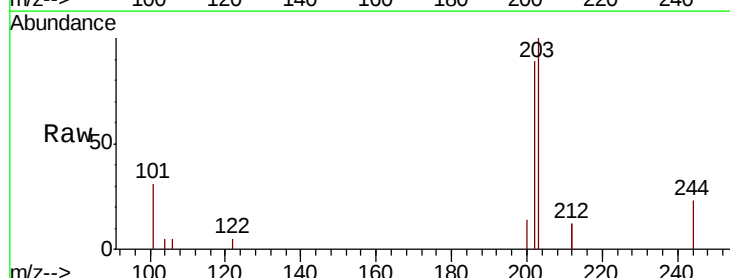
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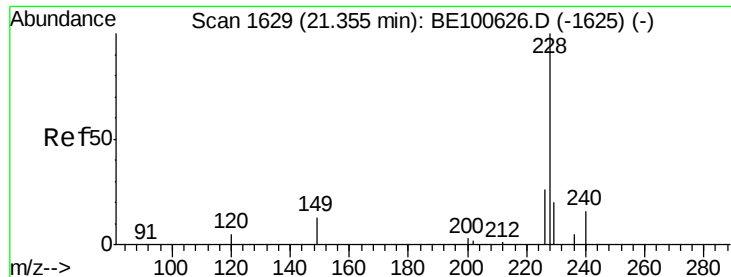
mohammad  
10/20/2019 8:05:05 PM



#29  
Terphenyl-d14  
Concen: 0.064 ng  
RT: 19.82 min Scan# 1489  
Delta R.T. -0.01 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Tgt Ion:244 Resp: 6083  
Ion Ratio Lower Upper  
244 100  
212 107.2 23.9 35.9#  
122 22.7 7.7 11.5#





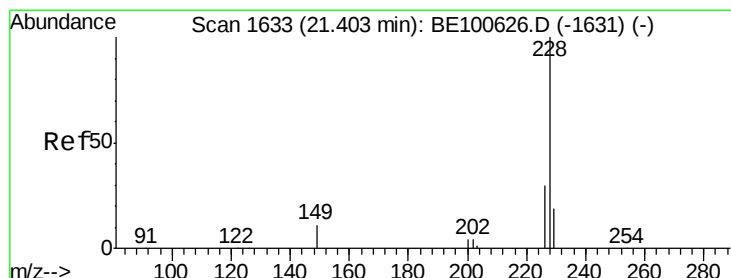
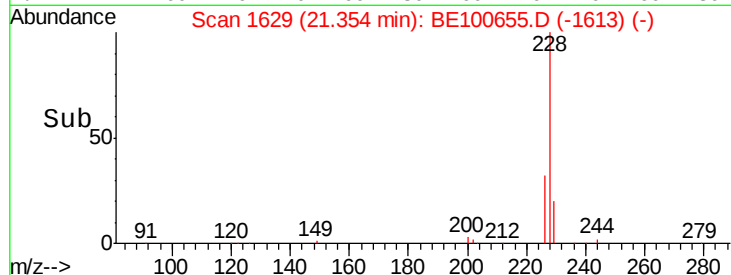
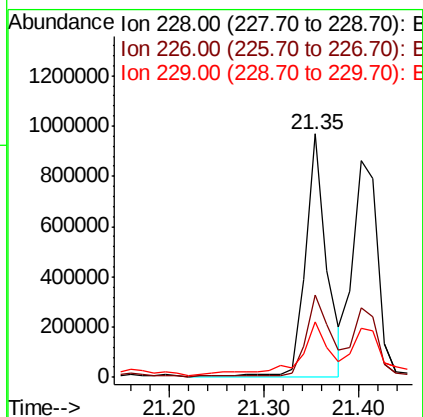
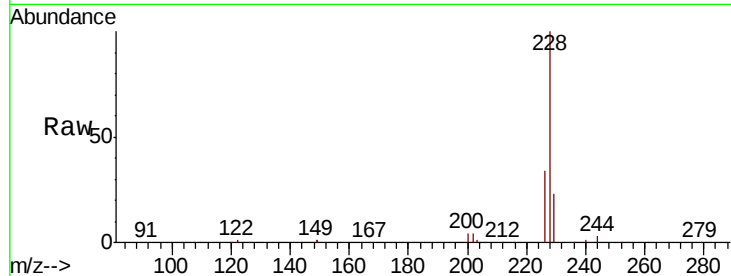
#30  
Benzo(a)anthracene  
Concen: 10.377 ng  
RT: 21.35 min Scan# 1629  
Delta R.T. -0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

Tot Ion:228 Resp: 1480120  
Ion Ratio Lower Upper  
228 100  
226 33.6 21.0 31.6#  
229 23.0 15.8 23.8

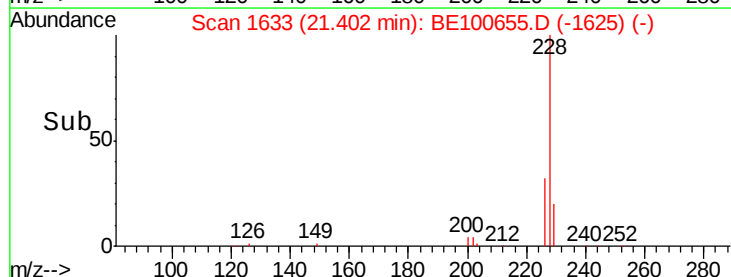
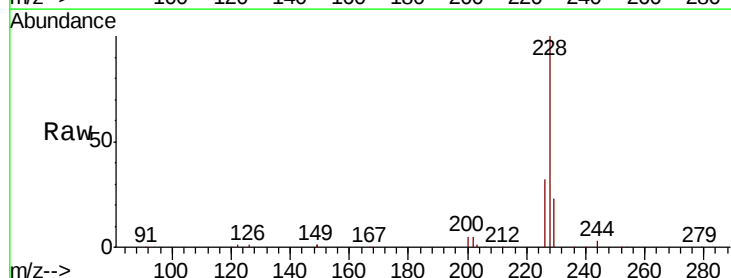
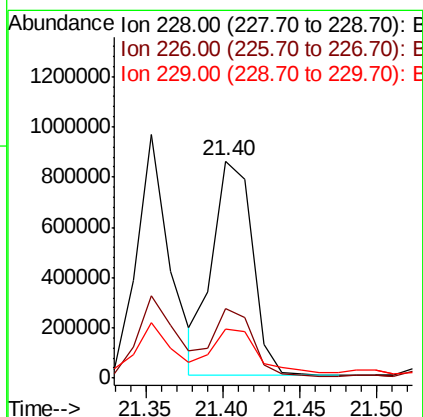
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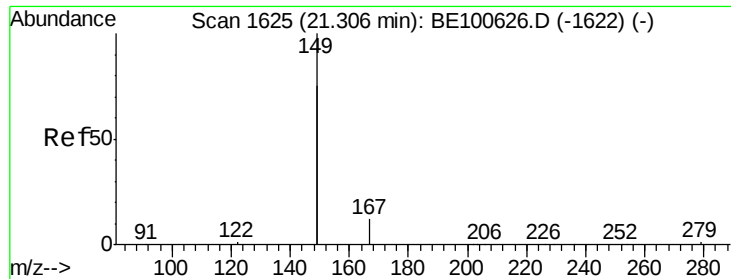
mohammad  
10/20/2019 8:05:05 PM



#31  
Chrysene  
Concen: 10.735 ng  
RT: 21.40 min Scan# 1633  
Delta R.T. -0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Tgt Ion:228 Resp: 1530147  
Ion Ratio Lower Upper  
228 100  
226 32.2 24.5 36.7  
229 22.7 15.6 23.4





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.169 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

Instrument :

BNA\_E

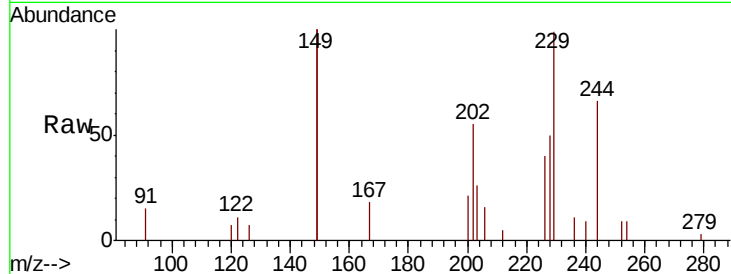
ClientSampleId :

EXT-SW167-091819-2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 50354 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 8.1   | 5.4   | 8.2   |
| 279       | 1.2   | 1.5   | 2.3   |

Manual Integrations  
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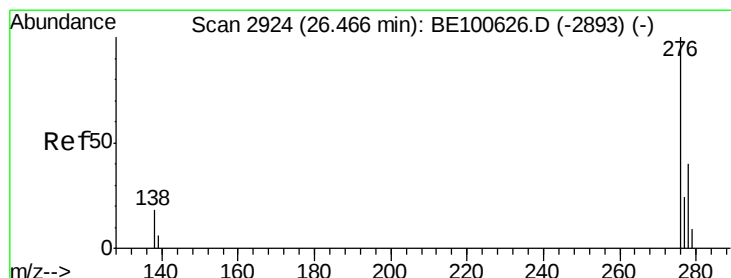
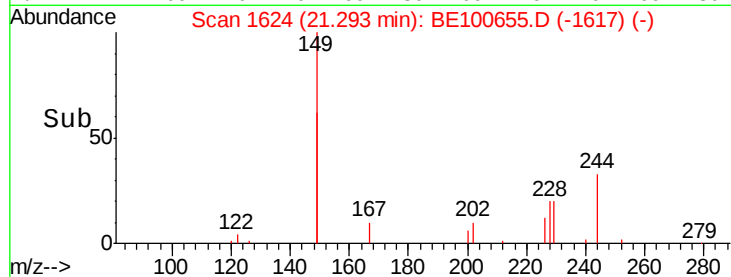
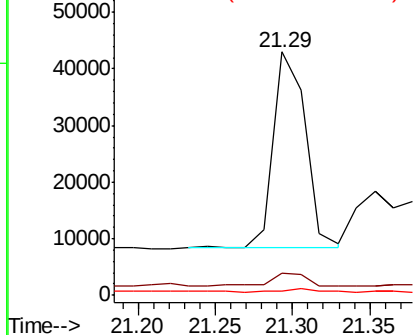


Abundance

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: 4.489 ng

RT: 26.48 min Scan# 2927

Delta R.T. 0.01 min

Lab File: BE100655.D

Acq: 18 Oct 2019 11:09

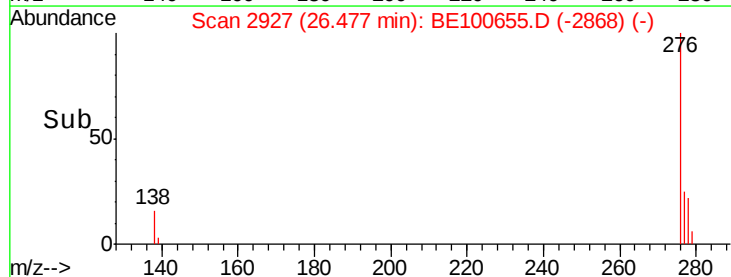
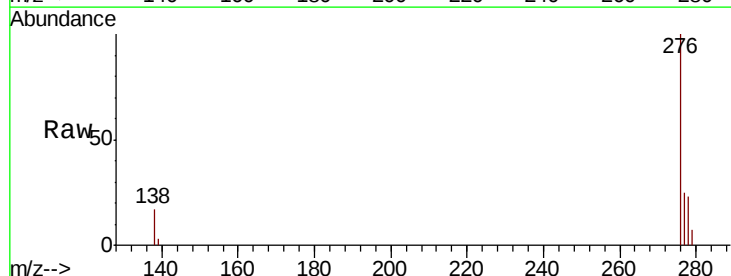
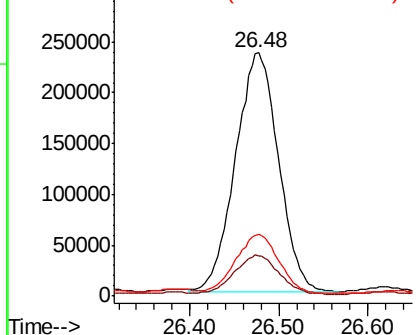
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 786513 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.8  | 16.0  | 24.0   |
| 277       | 25.2  | 19.7  | 29.5   |

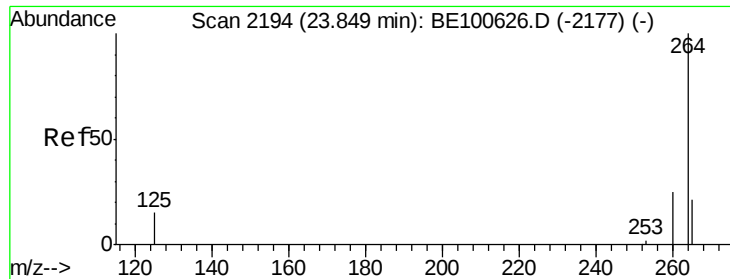
Abundance

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





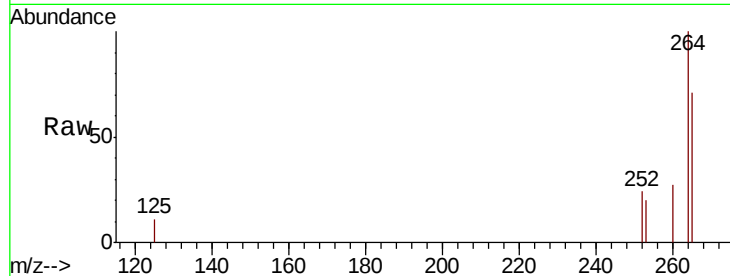
#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 23.85 min Scan# 2195  
Delta R.T. 0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.7  | 19.9  | 29.9  |
| 265     | 71.3  | 20.0  | 30.0  |

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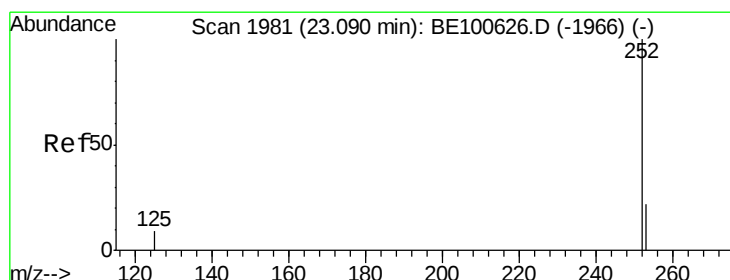
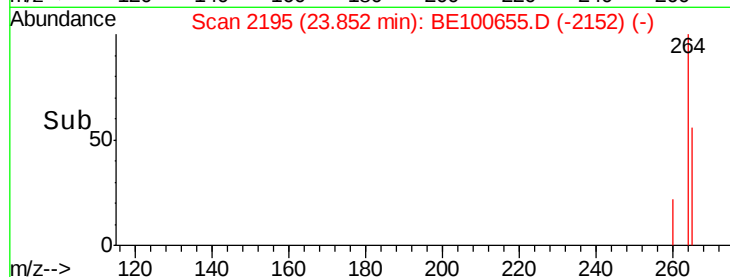
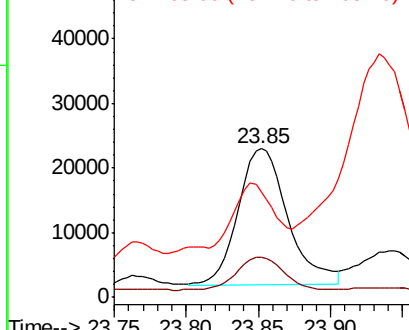


Abundance

Ion 264.00 (263.70 to 264.70): E

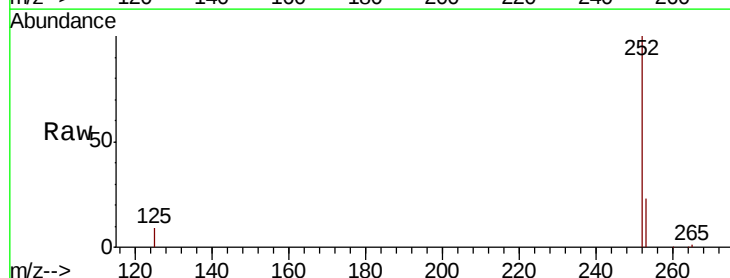
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#35  
Benzo(b)fluoranthene  
Concen: 10.225 ng  
RT: 23.10 min Scan# 1984  
Delta R.T. 0.01 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.8  | 26.8  |
| 125     | 8.9   | 7.6   | 11.4  |

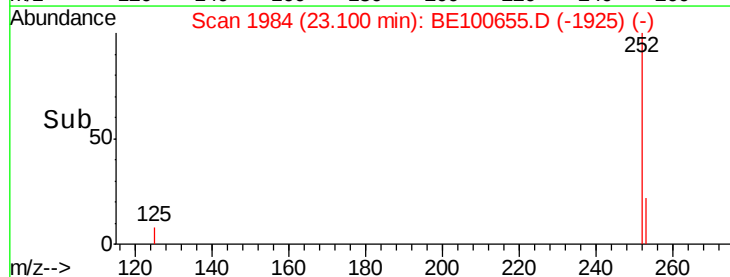
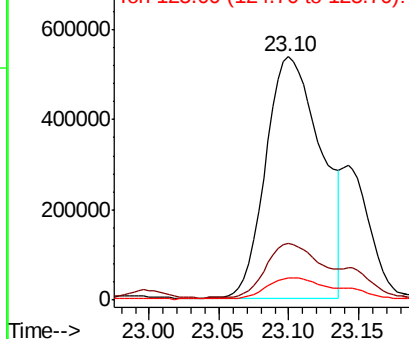


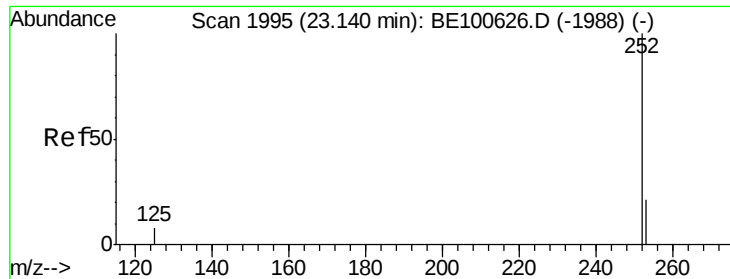
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





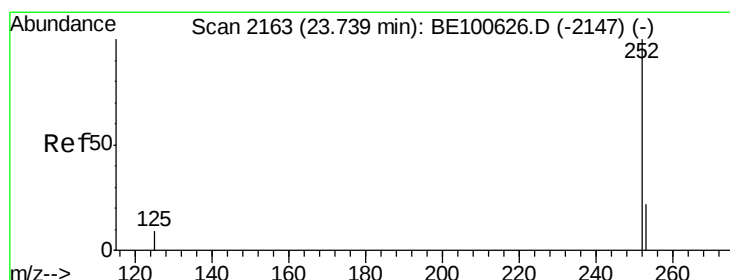
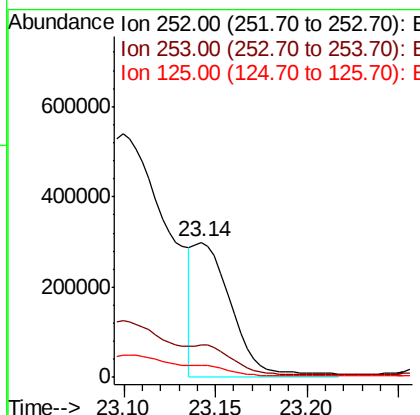
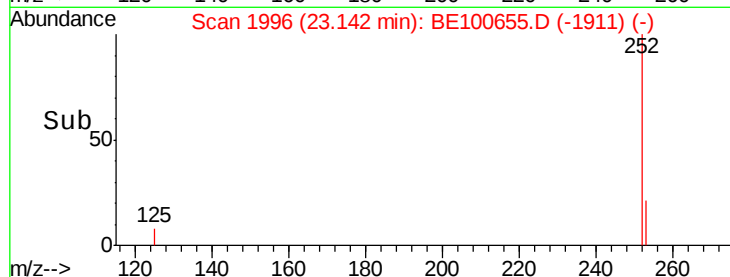
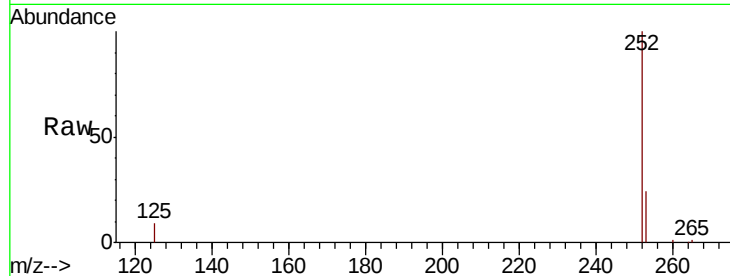
#36  
Benzo(k)fluoranthene  
Concen: 2.970 ng  
RT: 23.14 min Scan# 1996  
Delta R.T. 0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.8  | 26.6  |
| 125     | 8.9   | 7.6   | 11.4  |

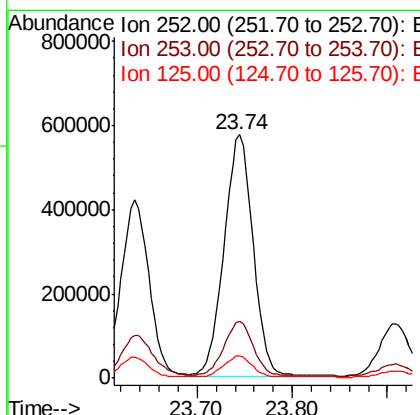
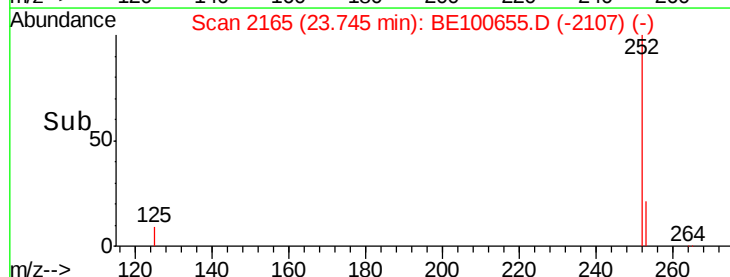
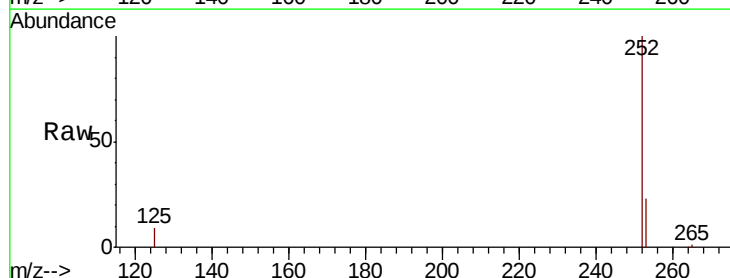
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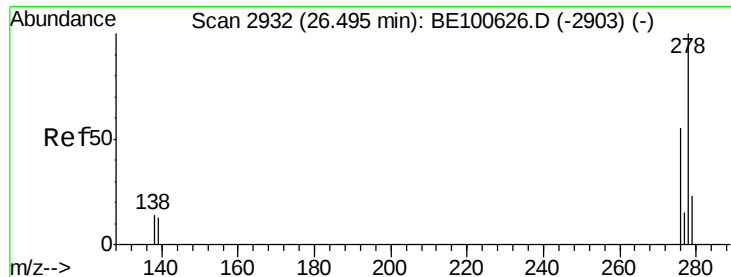
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#37  
Benzo(a)pyrene  
Concen: 8.916 ng  
RT: 23.74 min Scan# 2165  
Delta R.T. 0.01 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 18.2  | 27.2  |
| 125     | 9.1   | 8.1   | 12.1  |





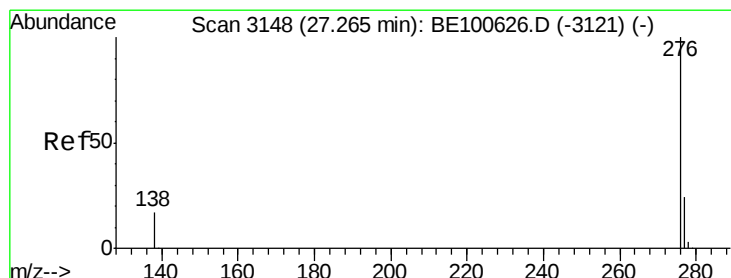
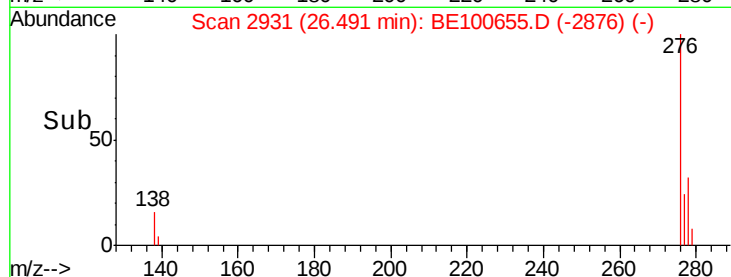
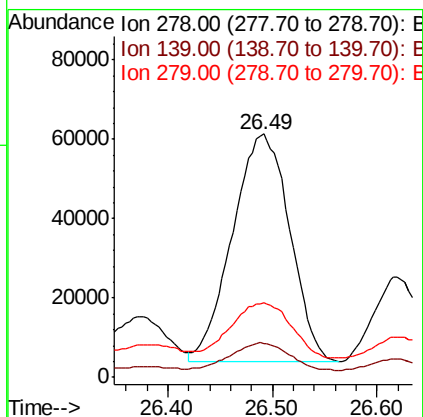
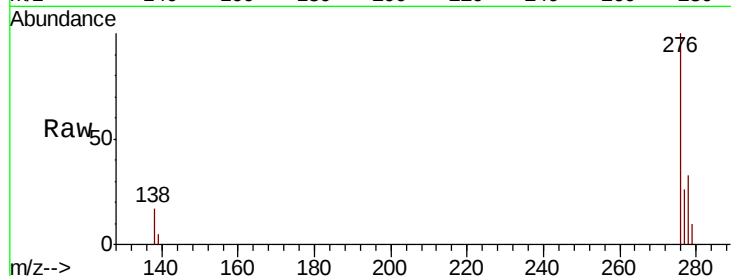
#38  
Dibenzo(a,h)anthracene  
Concen: 1.569 ng  
RT: 26.49 min Scan# 2931  
Delta R.T. -0.00 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW167-091819-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 14.0  | 11.2  | 16.8  |
| 279     | 30.9  | 19.0  | 28.6  |

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#39  
Benzo(g,h,i)perylene  
Concen: 6.270 ng  
RT: 27.29 min Scan# 3154  
Delta R.T. 0.02 min  
Lab File: BE100655.D  
Acq: 18 Oct 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 19.3  | 28.9  |
| 138     | 16.6  | 14.5  | 21.7  |

