

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE091317\  
 Data File : BE093985.D  
 Acq On : 13 Sep 2017 12:35  
 Operator : SJ/JU  
 Sample : PB102256BS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 2

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB102256BS

Manual Integrations  
 APPROVED

Sohil  
 9/14/2017 5:50:28 PM

Quant Time: Sep 14 02:41:21 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 13:34:56 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 3019     | 0.80 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.71 | 136  | 13547    | 0.80 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 7758     | 0.80 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 17238    | 0.80 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 22713    | 0.80 | ng    | 0.00     |
| 34) Perylene-d12          | 23.94 | 264  | 17299    | 0.80 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.53  | 112 | 2058  | 0.42 | ng | 0.00 |
| 5) Phenol-d6                | 7.11  | 99  | 2762  | 0.38 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.08  | 82  | 2562  | 0.45 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.30 | 152 | 4917  | 0.45 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330 | 546   | 0.45 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.16 | 172 | 6435  | 0.42 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.29 | 212 | 54714 | 0.43 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.87 | 244 | 10244 | 0.49 | ng | 0.00 |

|                                |       |     |        |        |    |       |
|--------------------------------|-------|-----|--------|--------|----|-------|
| Target Compounds               |       |     |        | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.44  | 88  | 983    | 0.472  | ng | # 1   |
| 3) n-Nitrosodimethylamine      | 3.75  | 42  | 1127   | 0.462  | ng | 97    |
| 6) bis(2-Chloroethyl)ether     | 7.34  | 93  | 2332   | 0.389  | ng | 91    |
| 9) Naphthalene                 | 10.76 | 128 | 31509  | 0.406  | ng | 100   |
| 10) Hexachlorobutadiene        | 11.02 | 225 | 1151   | 0.408  | ng | 99    |
| 12) 2-Methylnaphthalene        | 12.37 | 142 | 5205   | 0.404  | ng | 98    |
| 16) Acenaphthylene             | 14.24 | 152 | 7545   | 0.390  | ng | 100   |
| 17) Acenaphthene               | 14.58 | 154 | 5319   | 0.407  | ng | 97    |
| 18) Fluorene                   | 15.58 | 166 | 6880   | 0.408  | ng | 99    |
| 20) 4-Bromophenyl-phenylether  | 16.45 | 248 | 2036   | 0.308  | ng | # 78  |
| 21) Hexachlorobenzene          | 16.58 | 284 | 1682   | 0.331  | ng | # 100 |
| 22) Pentachlorophenol          | 16.94 | 266 | 774    | 0.566  | ng | 96    |
| 23) Phenanthrene               | 17.30 | 178 | 12173m | 0.239  | ng |       |
| 24) Anthracene                 | 17.40 | 178 | 11005m | 0.419  | ng |       |
| 26) Fluoranthene               | 19.32 | 202 | 14779  | 0.385  | ng | 100   |
| 28) Pyrene                     | 19.67 | 202 | 15141  | 0.387  | ng | 100   |
| 30) Benzo(a)anthracene         | 21.40 | 228 | 13611  | 0.390  | ng | 98    |
| 31) Chrysene                   | 21.46 | 228 | 14216  | 0.385  | ng | 97    |
| 32) Bis(2-ethylhexyl)phthalate | 21.30 | 149 | 28187  | 0.333  | ng | 100   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.61 | 276 | 8259   | 0.336  | ng | 94    |
| 35) Benzo(b)fluoranthene       | 23.16 | 252 | 11014  | 0.400  | ng | 99    |
| 36) Benzo(k)fluoranthene       | 23.21 | 252 | 13944  | 0.413  | ng | 96    |
| 37) Benzo(a)pyrene             | 23.82 | 252 | 11450  | 0.408  | ng | 97    |
| 38) Dibenzo(a,h)anthracene     | 26.63 | 278 | 6019   | 0.324  | ng | 93    |
| 39) Benzo(g,h,i)perylene       | 27.42 | 276 | 7321   | 0.373  | ng | 98    |

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

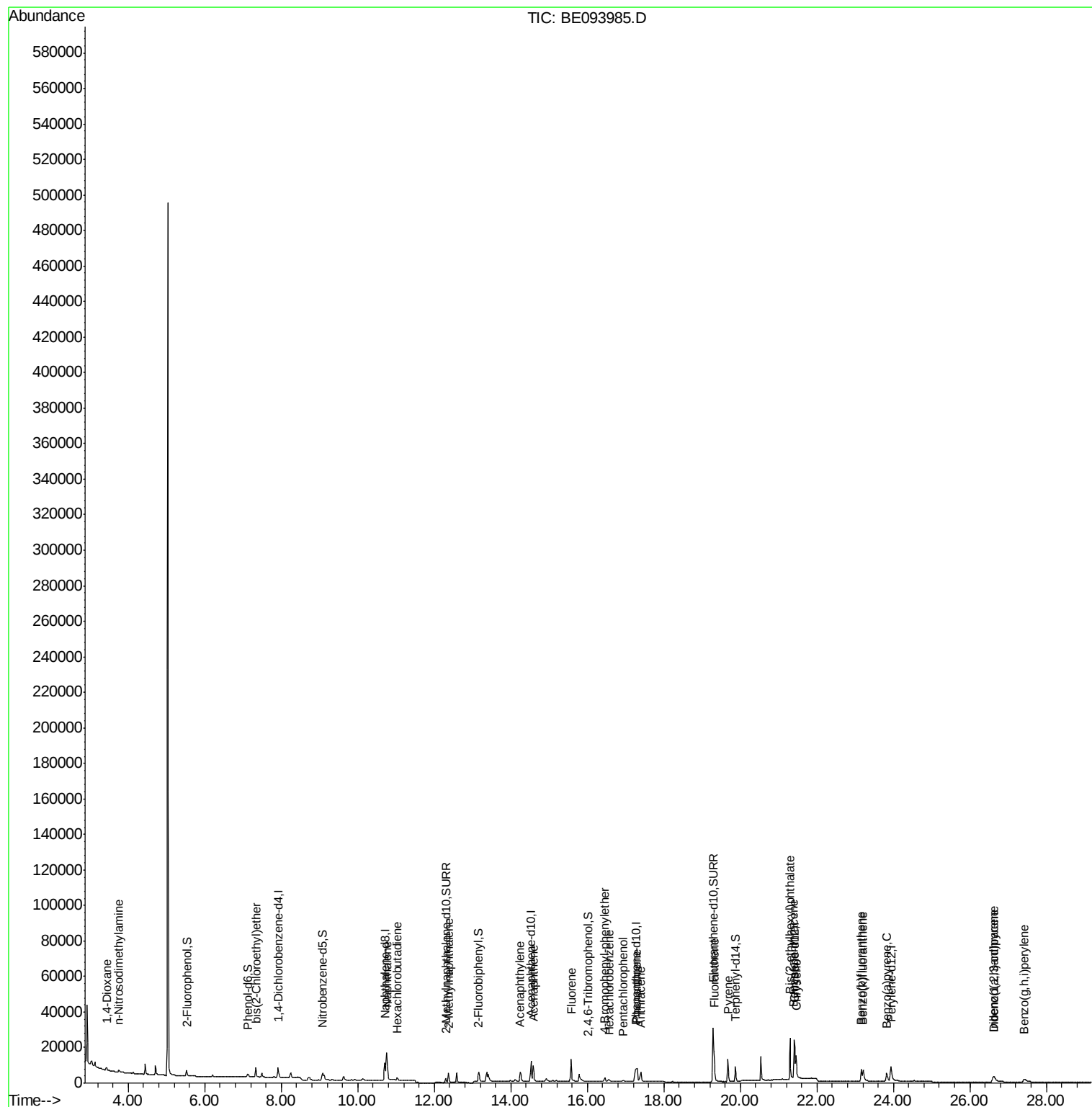
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE091317\  
Data File : BE093985.D  
Acq On : 13 Sep 2017 12:35  
Operator : SJ/JU  
Sample : PB102256BS  
Misc :  
ALS Vial : 6 Sample Multiplier: 2

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

Manual Integrations  
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9/14/2017 5:50:28 PM

Quant Time: Sep 14 02:41:21 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 13:34:56 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.800 ng

RT: 7.92 min Scan# 402

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

ClientSampleId :

PB102256BS

Tot Ion:152 Resp: 3019

Ion Ratio Lower Upper

152 100

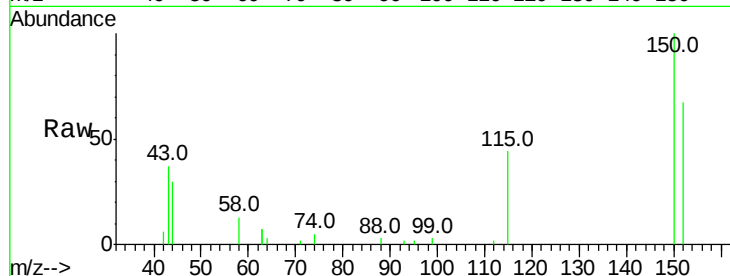
150 149.7 121.8 182.6

115 66.6 52.6 79.0

Manual Integrations  
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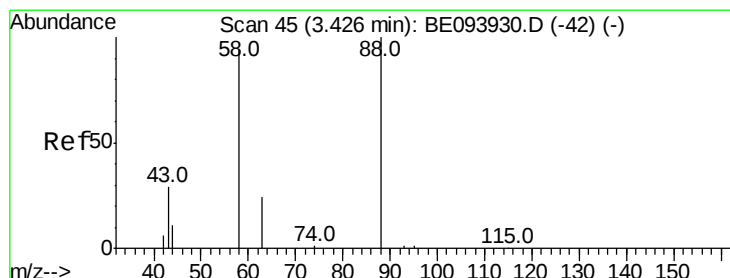
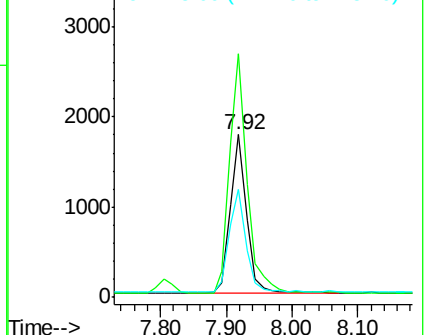
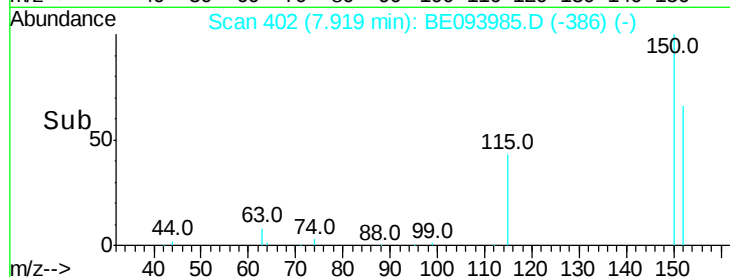
9/14/2017 5:50:28 PM



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: 0.472 ng

RT: 3.44 min Scan# 46

Delta R.T. 0.01 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

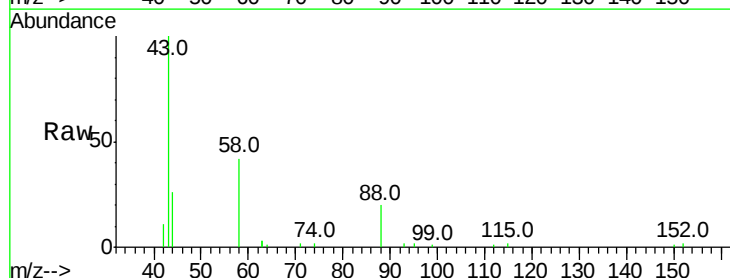
Tgt Ion: 88 Resp: 983

Ion Ratio Lower Upper

88 100

58 183.8 65.4 98.0#

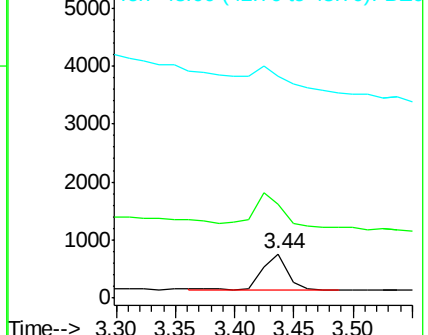
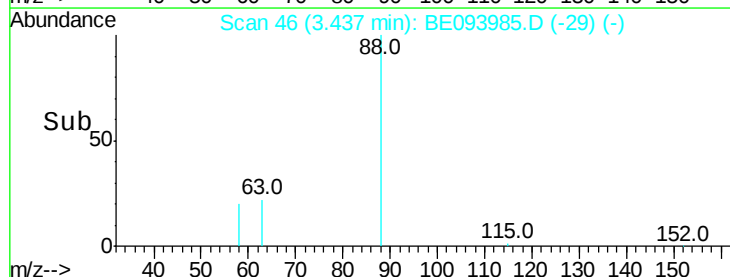
43 0.0 23.9 35.9#



Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

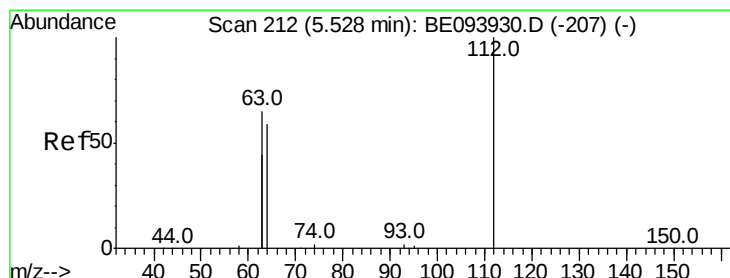
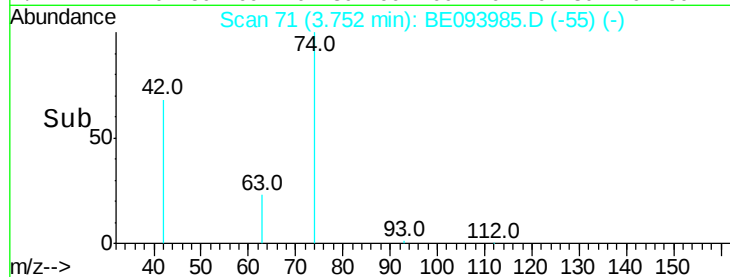
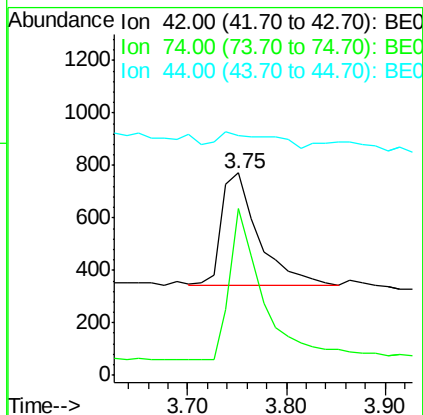
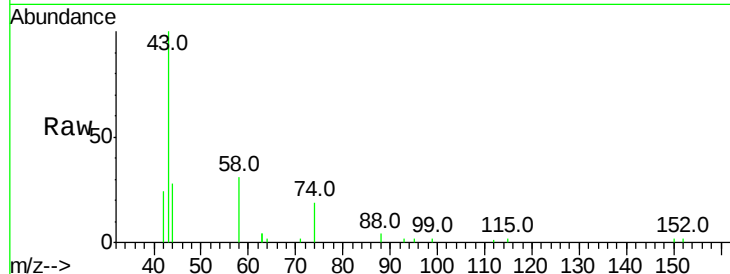
n-Nitrosodimethylamine  
Concen: 0.462 ng  
RT: 3.75 min Scan# 71  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 127.2 | 104.0 | 156.0 |
| 44      | 20.5  | 13.8  | 20.8  |

Manual Integrations  
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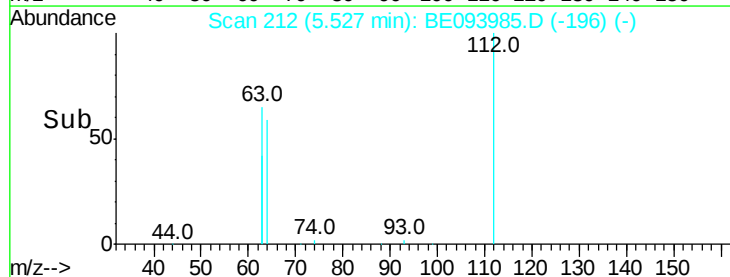
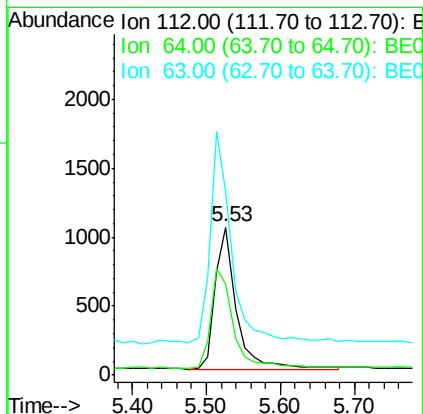
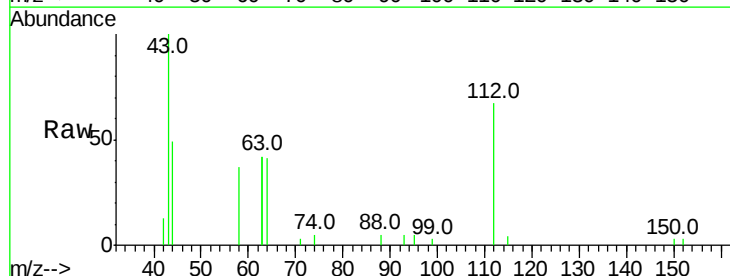
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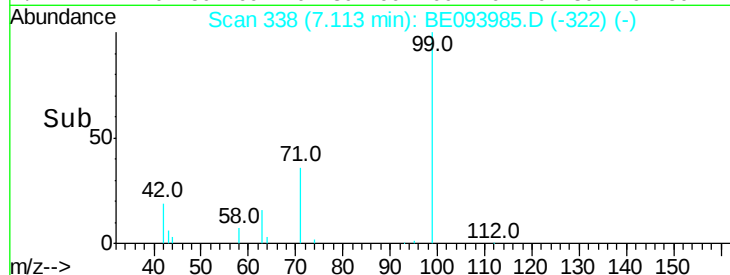
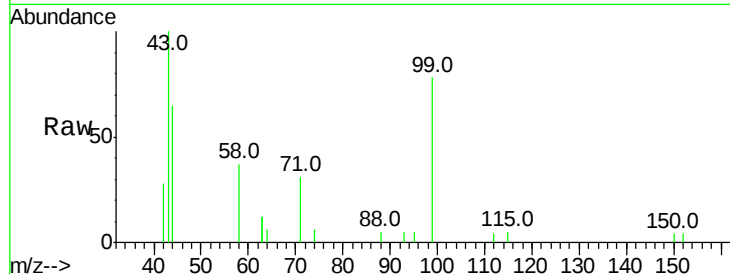
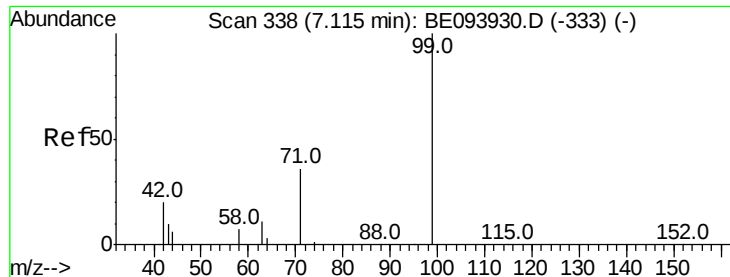


#4

2-Fluorophenol  
Concen: 0.421 ng  
RT: 5.53 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 74.4  | 57.7  | 86.5  |
| 63      | 149.7 | 116.0 | 174.0 |





#5

Phenol-d6

Concen: 0.377 ng

RT: 7.11 min Scan# 338

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 99    | Resp: | 2762 |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 18.4  | 17.1  | 25.7 |
| 71        | 34.3  | 26.6  | 39.8 |

Instrument :

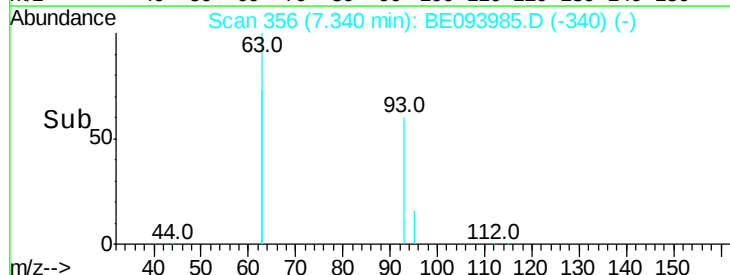
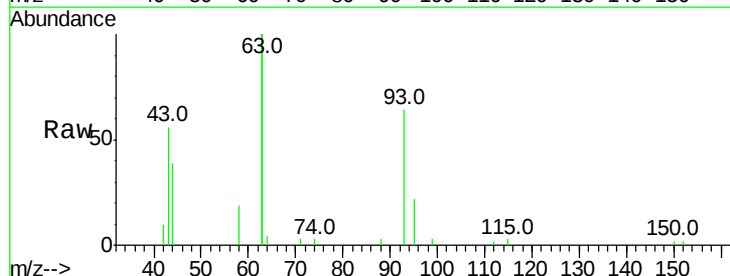
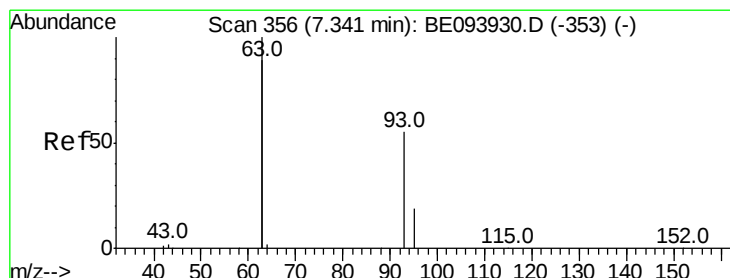
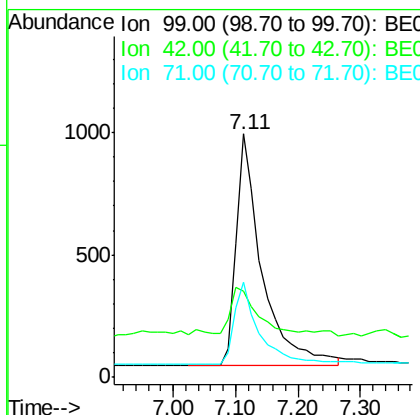
BNA\_E

ClientSampled :

PB102256BS

Manual Integrations  
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#6

bis(2-Chloroethyl)ether

Concen: 0.389 ng

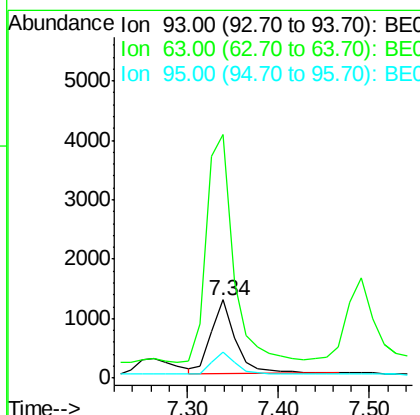
RT: 7.34 min Scan# 356

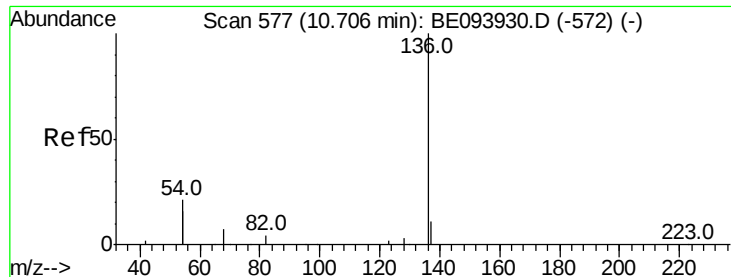
Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 2332  |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 332.5 | 283.4 | 425.2 |
| 95        | 31.7  | 26.9  | 40.3  |





#7

Naphthalene-d8

Concen: 0.800 ng

RT: 10.71 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

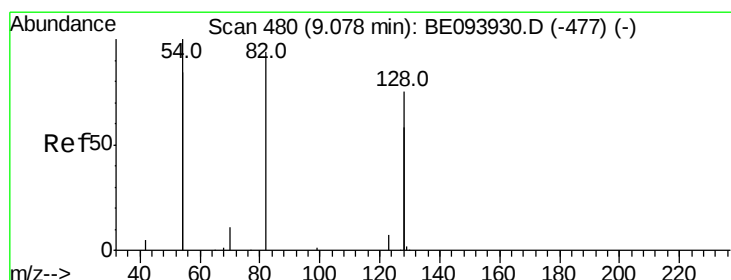
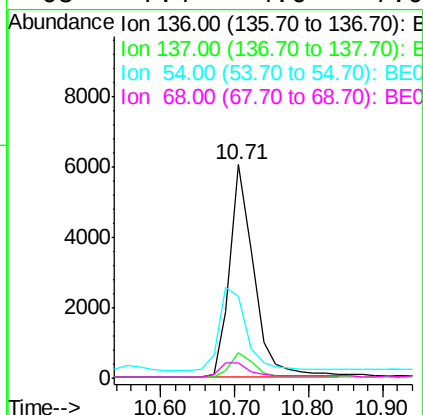
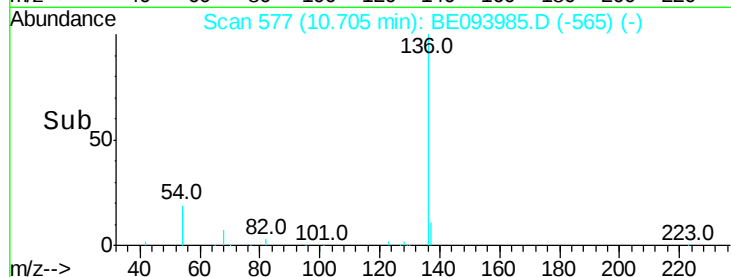
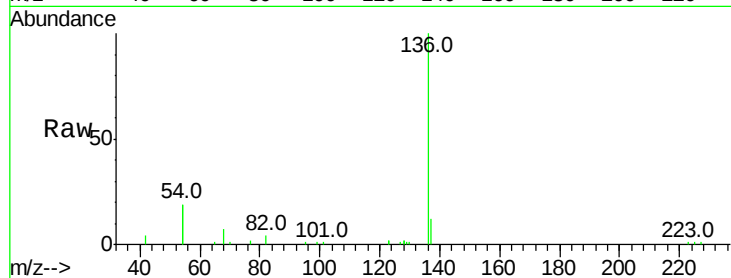
ClientSampleId :

PB102256BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.8  | 9.2  | 13.8  |       |
| 54      | 38.6  | 21.9 | 32.9  |       |
| 68      | 7.4   | 4.6  | 7.0   |       |

Manual Integrations  
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#8

Nitrobenzene-d5

Concen: 0.447 ng

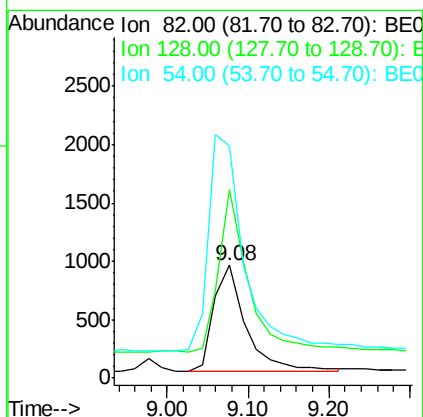
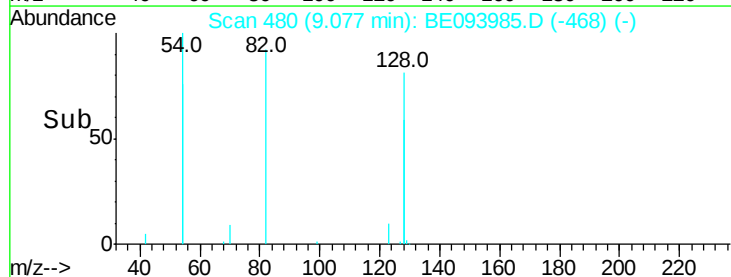
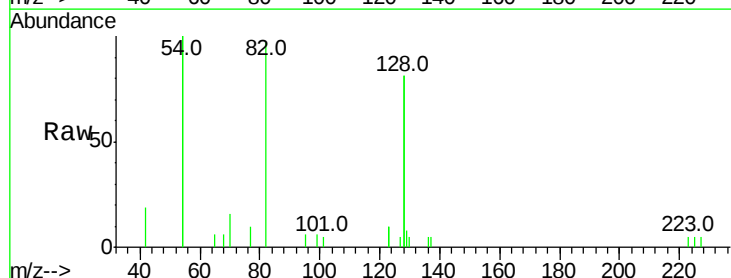
RT: 9.08 min Scan# 480

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 82      | 100   |       |       |       |
| 128     | 167.3 | 91.4  | 137.0 |       |
| 54      | 206.0 | 197.8 | 296.8 |       |





#9

Naphthalene

Concen: 0.406 ng

RT: 10.76 min Scan# 580

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

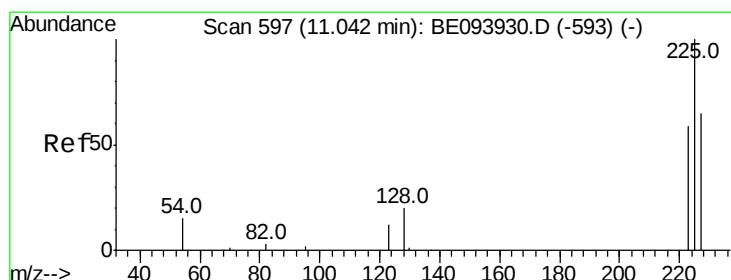
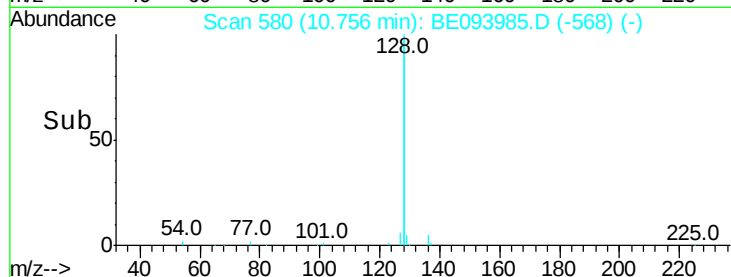
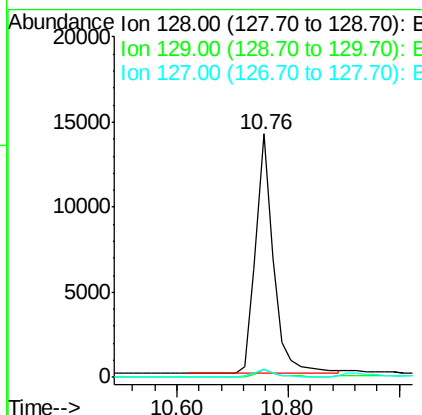
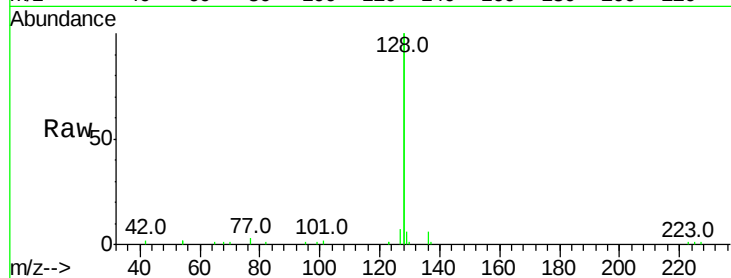
ClientSampleId :

PB102256BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 31509 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.1   | 2.5   | 3.7   |
| 127       | 3.4   | 2.6   | 4.0   |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.408 ng

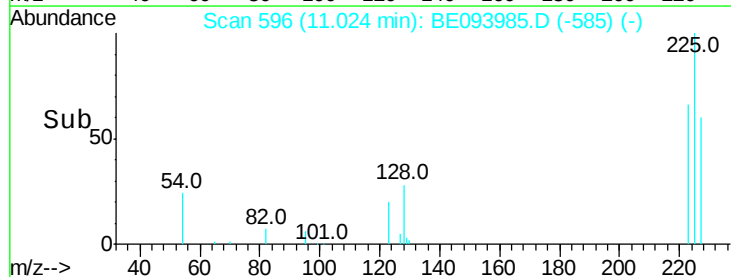
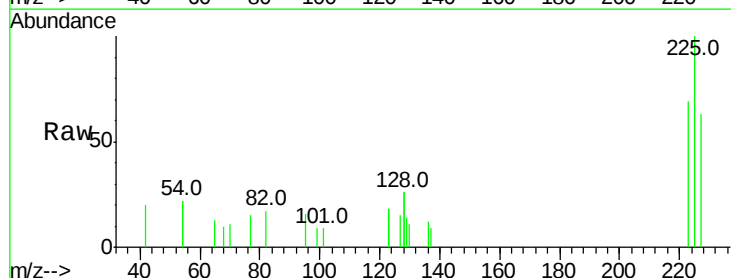
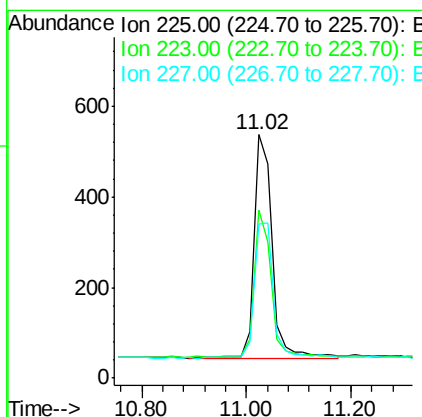
RT: 11.02 min Scan# 596

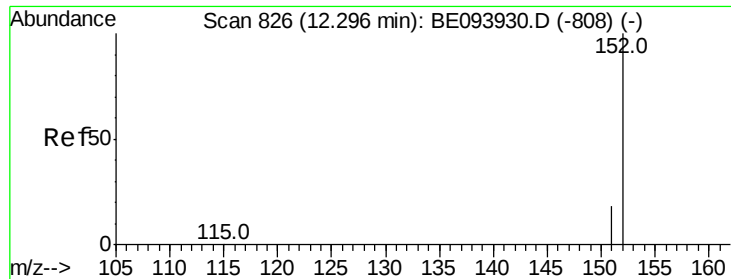
Delta R.T. -0.02 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 1151 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.3  | 49.4  | 74.0 |
| 227       | 63.8  | 50.5  | 75.7 |





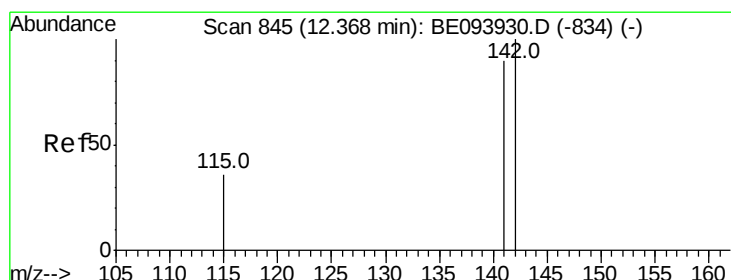
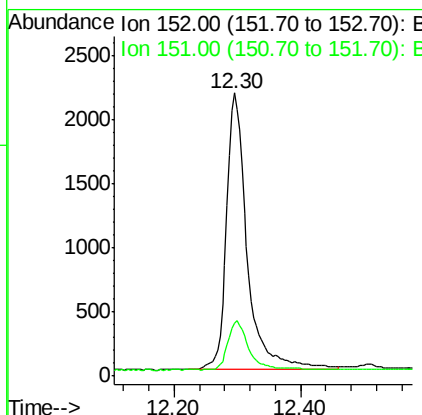
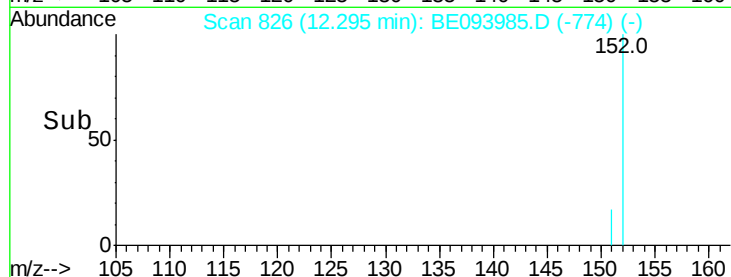
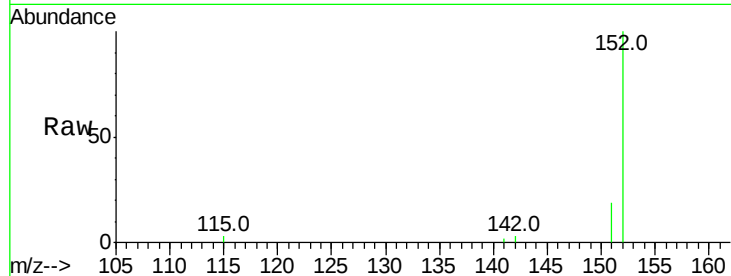
#11  
2-Methylnaphthalene-d10  
Concen: 0.454 ng  
RT: 12.30 min Scan# 826  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

Tot Ion:152 Resp: 4917  
Ion Ratio Lower Upper  
152 100  
151 18.1 15.4 23.0

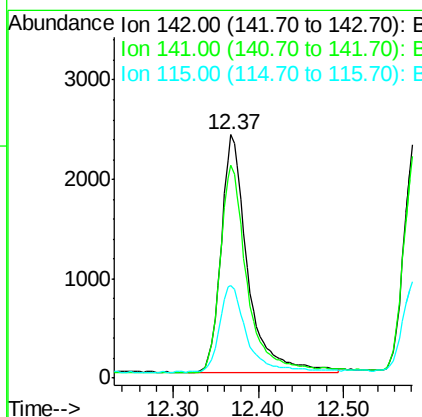
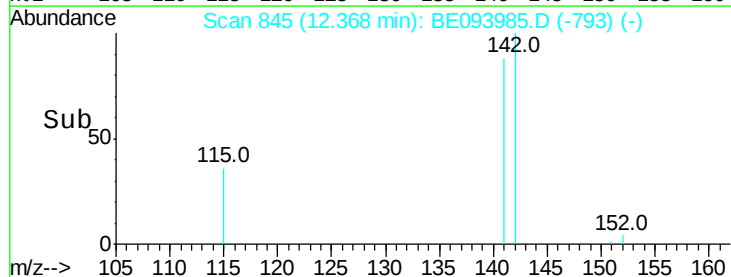
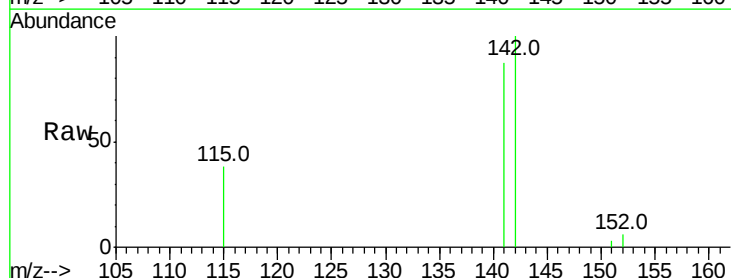
Manual Integrations  
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9/14/2017 5:50:28 PM



#12  
2-Methylnaphthalene  
Concen: 0.404 ng  
RT: 12.37 min Scan# 845  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Tgt Ion:142 Resp: 5205  
Ion Ratio Lower Upper  
142 100  
141 87.4 71.4 107.2  
115 37.8 29.4 44.0





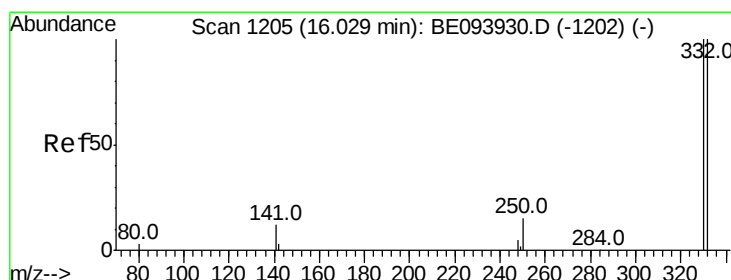
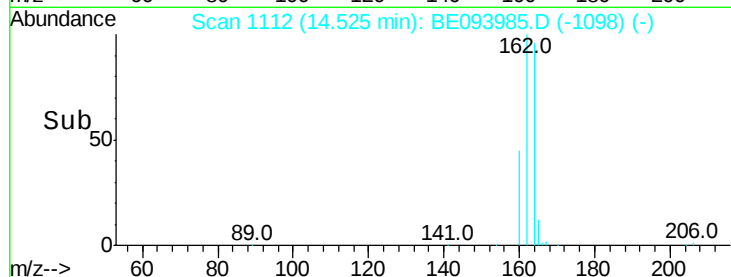
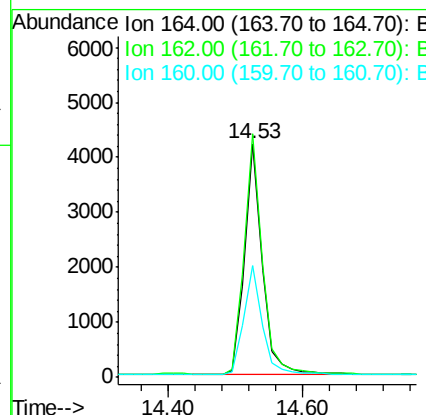
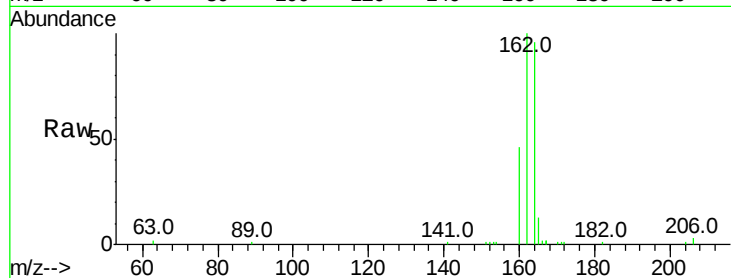
#13  
 Acenaphthene-d10  
 Concen: 0.800 ng  
 RT: 14.53 min Scan# 1112  
 Delta R.T. 0.00 min  
 Lab File: BE093985.D  
 Acq: 13 Sep 2017 12:35

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.1 | 80.8  | 121.2 |
| 160     | 47.9  | 37.0  | 55.4  |

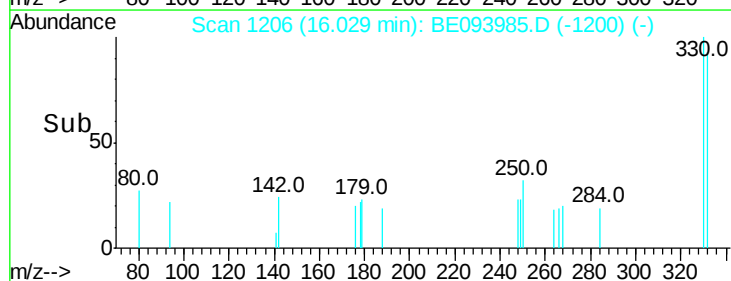
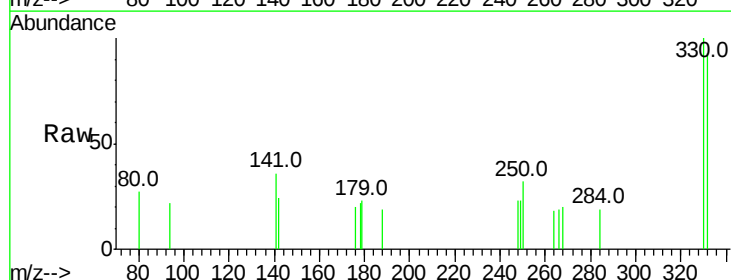
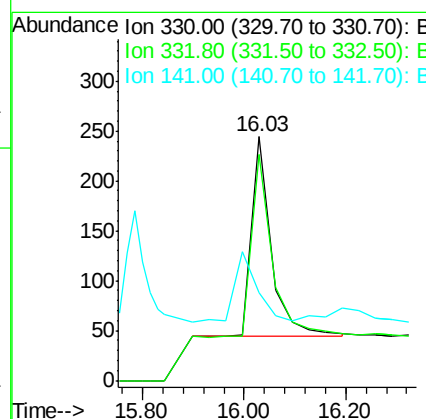
Manual Integrations  
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.455 ng  
 RT: 16.03 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: BE093985.D  
 Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 76.9  | 115.3 |
| 141     | 0.0   | 0.0   | 0.0   |





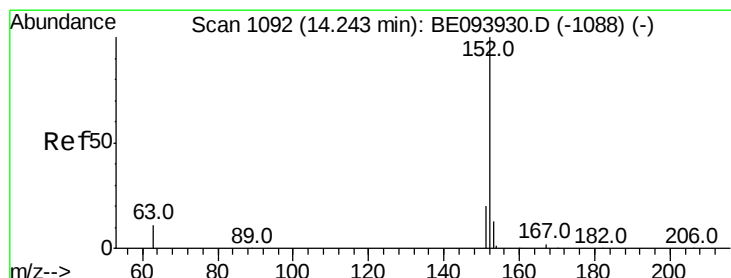
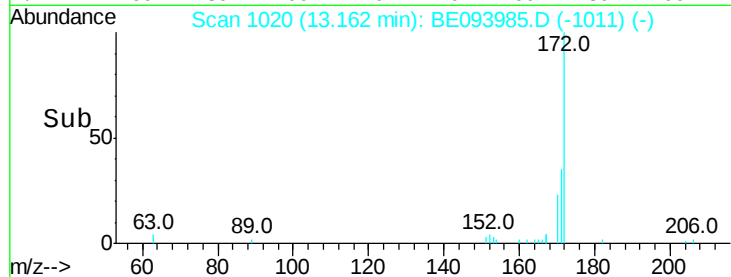
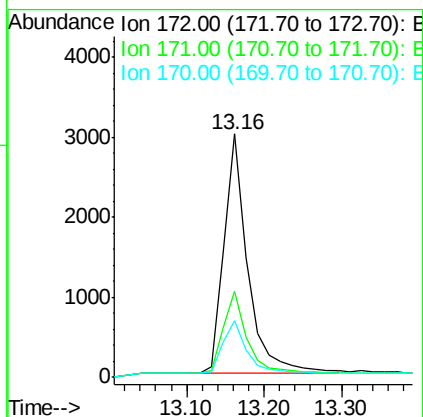
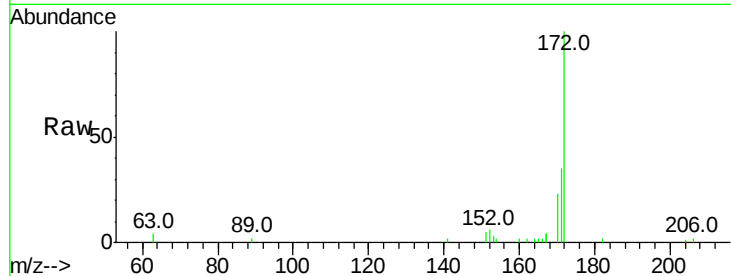
#15  
2-Fluorobiphenyl  
Concen: 0.420 ng  
RT: 13.16 min Scan# 1020  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 26.9  | 40.3  |
| 170     | 23.2  | 17.3  | 25.9  |

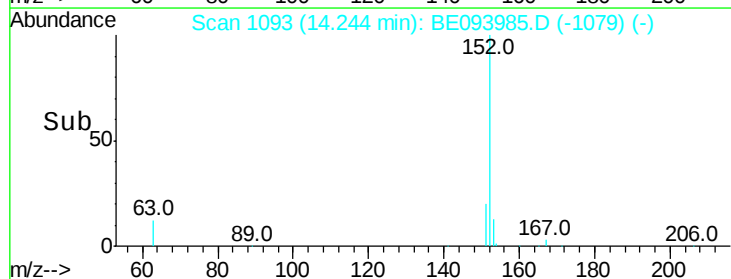
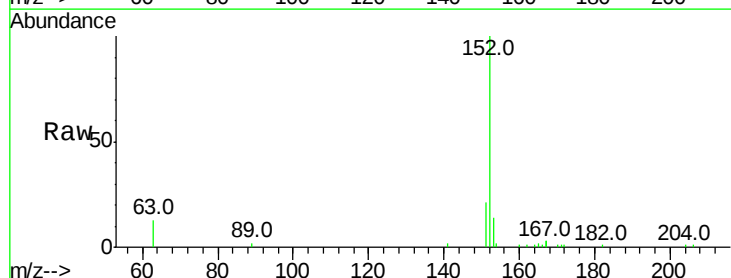
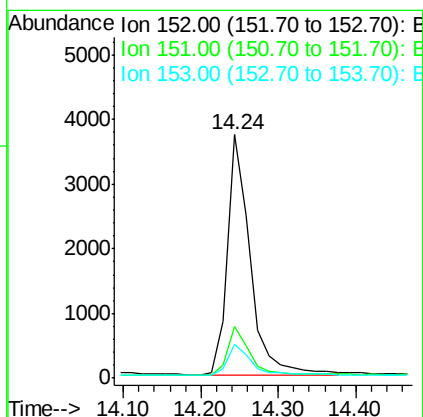
Manual Integrations  
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#16  
Acenaphthylene  
Concen: 0.390 ng  
RT: 14.24 min Scan# 1093  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.7  | 23.5  |
| 153     | 12.9  | 10.6  | 16.0  |





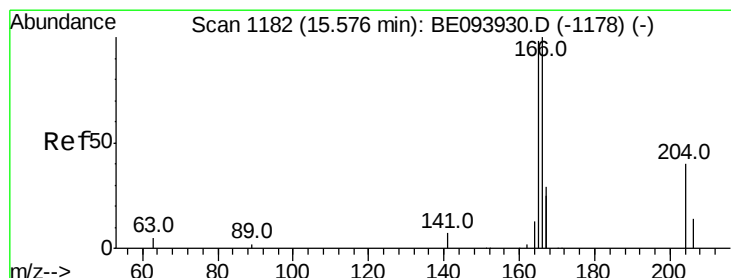
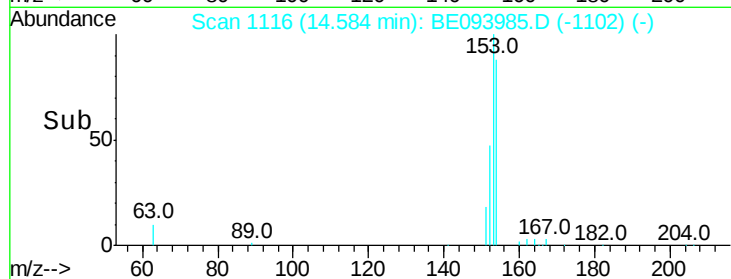
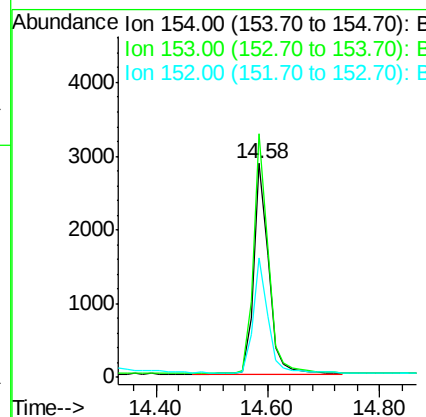
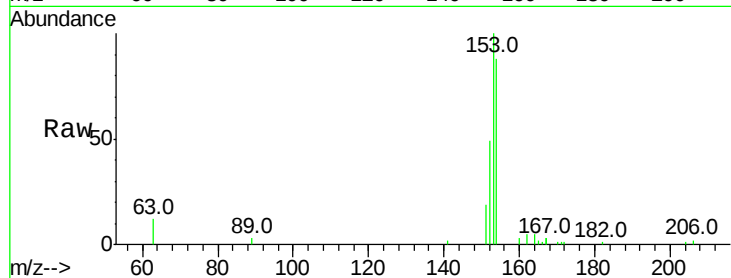
#17  
Acenaphthene  
Concen: 0.407 ng  
RT: 14.58 min Scan# 1116  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.7 | 91.8  | 137.6 |
| 152     | 53.3  | 44.9  | 67.3  |

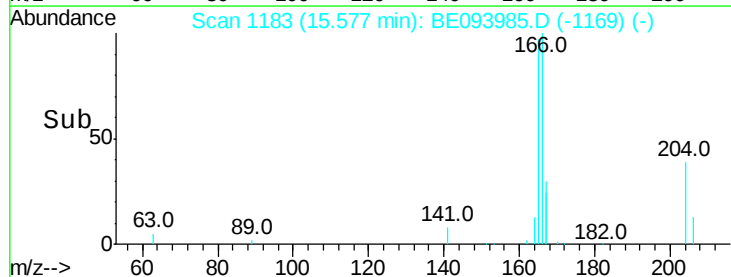
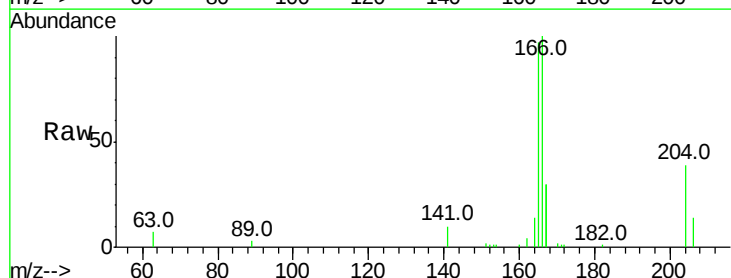
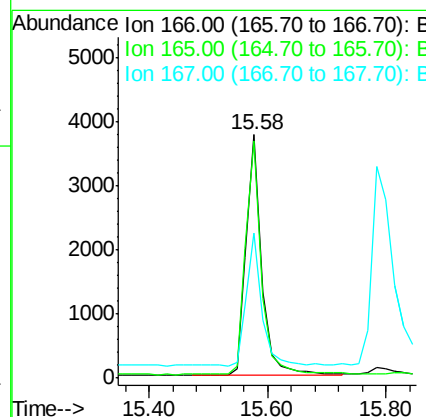
Manual Integrations  
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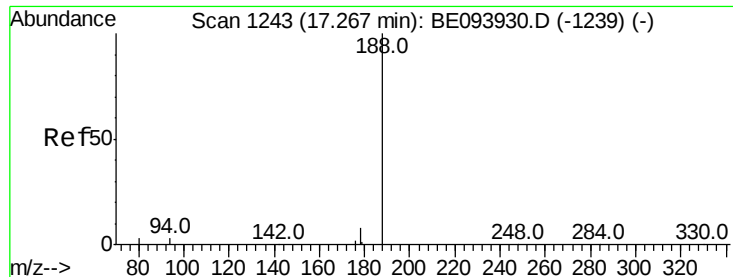
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#18  
Fluorene  
Concen: 0.408 ng  
RT: 15.58 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.9  | 79.4  | 119.0 |
| 167     | 53.8  | 43.5  | 65.3  |





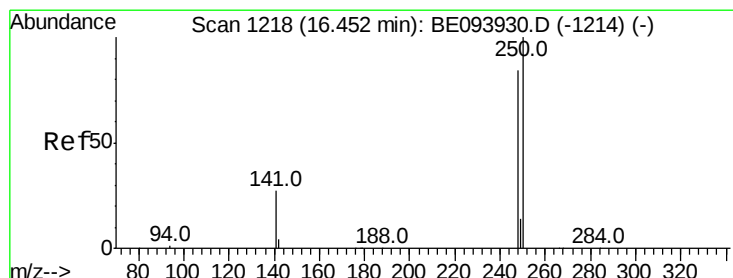
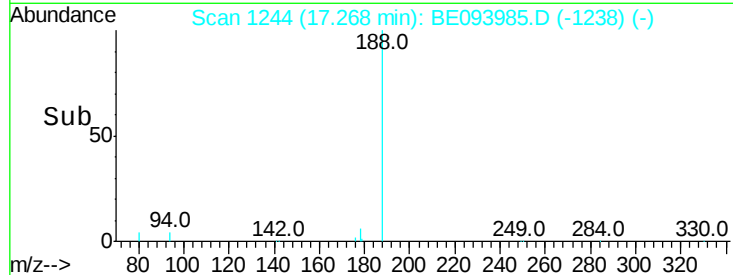
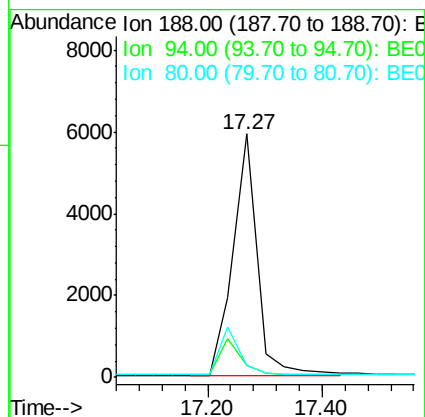
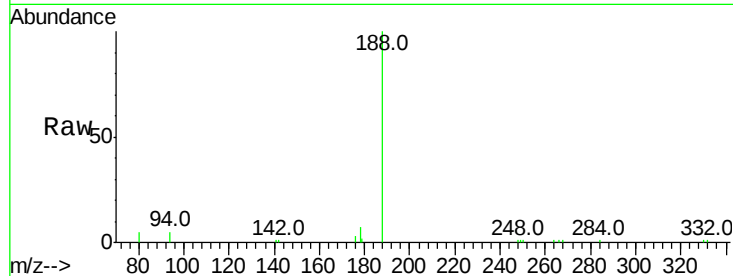
#19  
Phenanthrene-d10  
Concen: 0.800 ng  
RT: 17.27 min Scan# 1244  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

|             |       |       |
|-------------|-------|-------|
| Tot Ion:188 | Resp: | 17238 |
| Ion Ratio   | Lower | Upper |
| 188 100     |       |       |
| 94 4.8      | 16.1  | 24.1# |
| 80 4.9      | 18.2  | 27.2# |

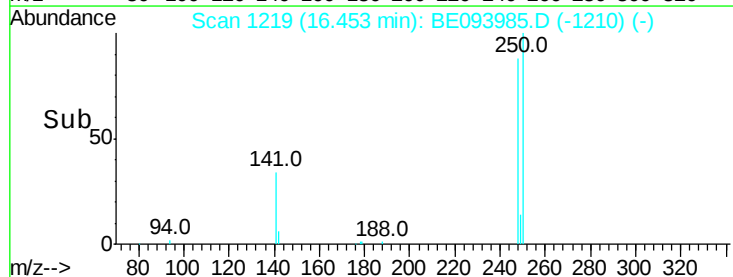
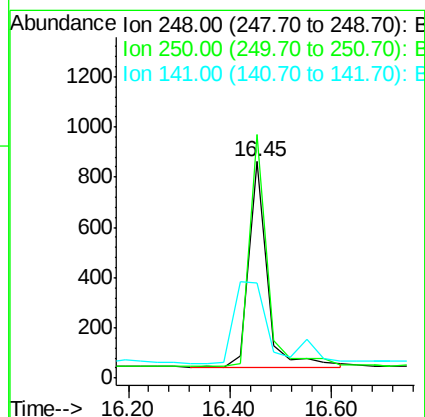
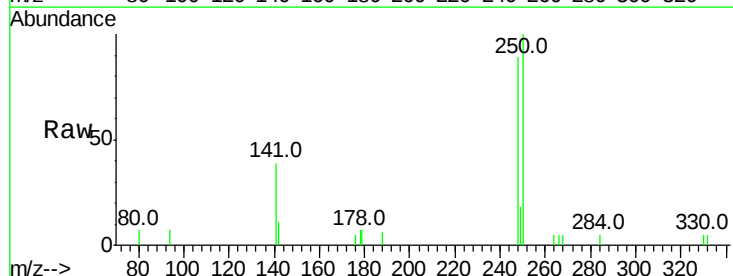
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#20  
4-Bromophenyl-phenylether  
Concen: 0.308 ng  
RT: 16.45 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:248 | Resp: | 2036  |
| Ion Ratio   | Lower | Upper |
| 248 100     |       |       |
| 250 112.5   | 111.8 | 167.8 |
| 141 44.1    | 27.1  | 40.7# |





#21

Hexachlorobenzene

Concen: 0.331 ng

RT: 16.58 min Scan# 1223

Delta R.T. 0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

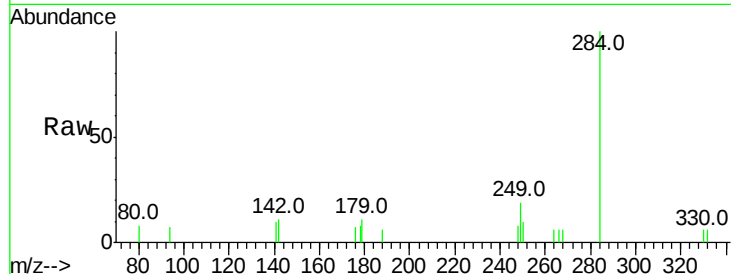
ClientSampled :

PB102256BS

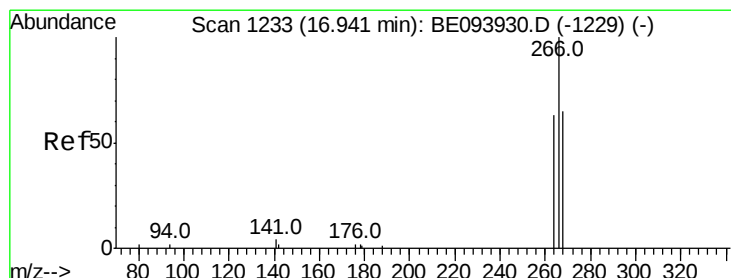
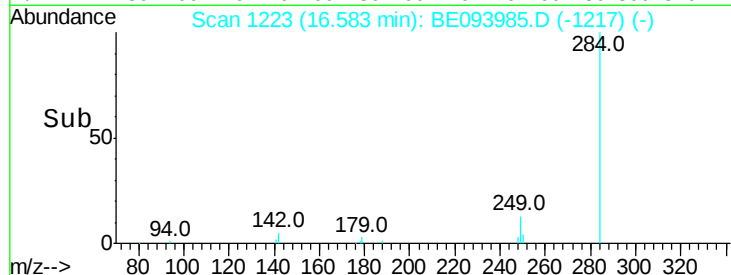
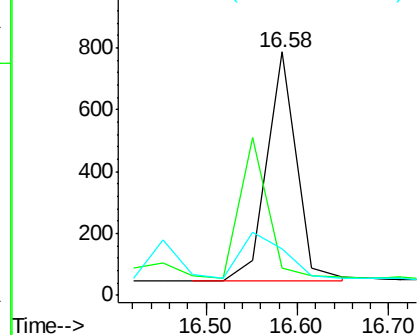
|           |     |       |       |
|-----------|-----|-------|-------|
| Tot Ion:  | 284 | Resp: | 1682  |
| Ion Ratio |     | Lower | Upper |
| 284       | 100 |       |       |
| 142       | 0.0 | 0.0   | 0.0   |
| 249       | 0.0 | 0.0   | 0.0   |

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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: 0.566 ng

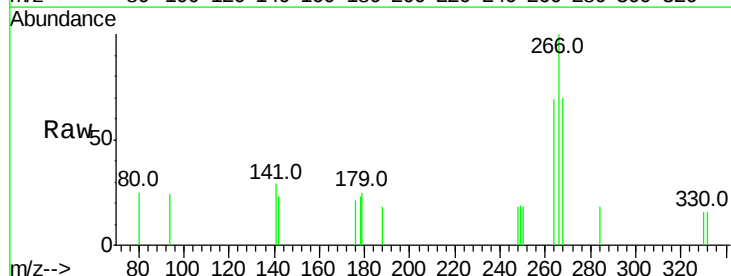
RT: 16.94 min Scan# 1234

Delta R.T. 0.00 min

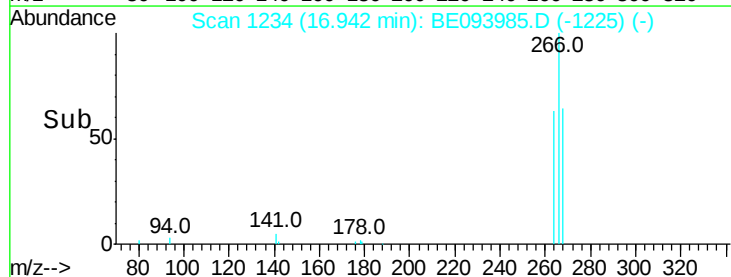
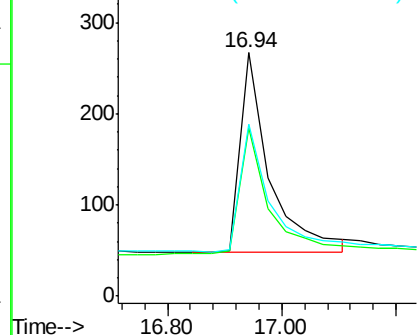
Lab File: BE093985.D

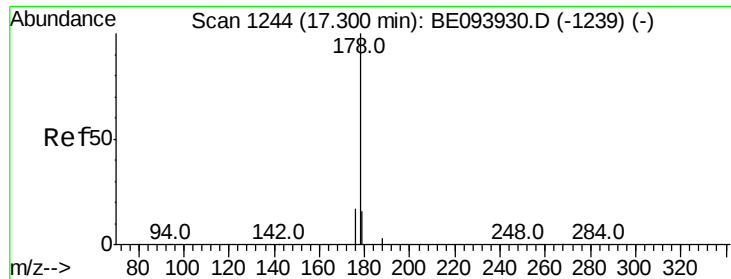
Acq: 13 Sep 2017 12:35

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 266  | Resp: | 774   |
| Ion Ratio |      | Lower | Upper |
| 266       | 100  |       |       |
| 264       | 69.3 | 53.5  | 80.3  |
| 268       | 70.4 | 60.0  | 90.0  |



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: 0.239 ng m

RT: 17.30 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

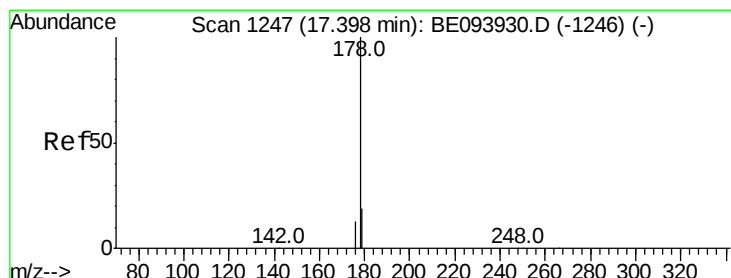
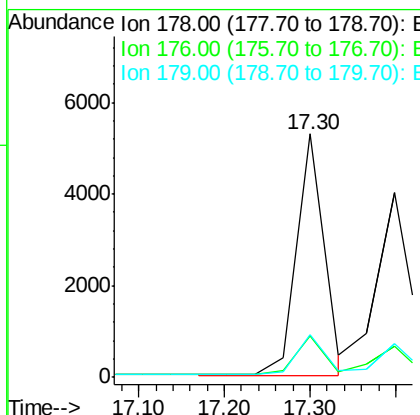
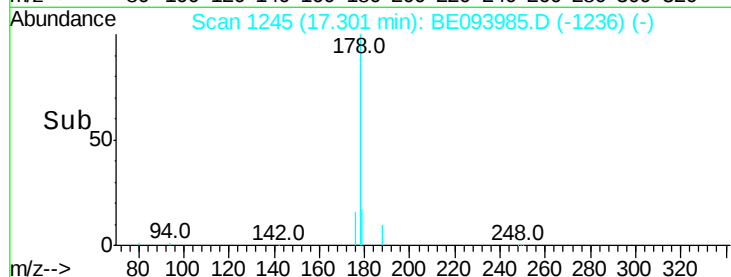
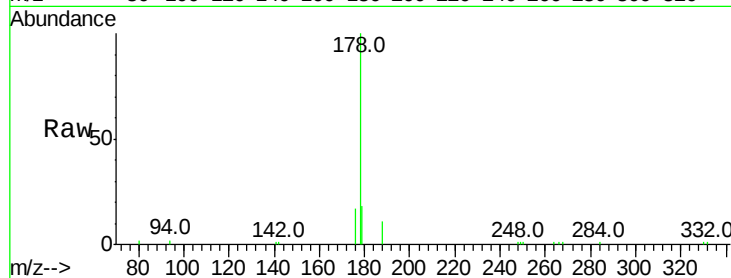
Instrument :  
BNA\_E

ClientSampleId :  
PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.4  | 0.0   | 0.0#  |
| 179     | 17.9  | 12.6  | 18.8  |

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#24

Anthracene

Concen: 0.419 ng m

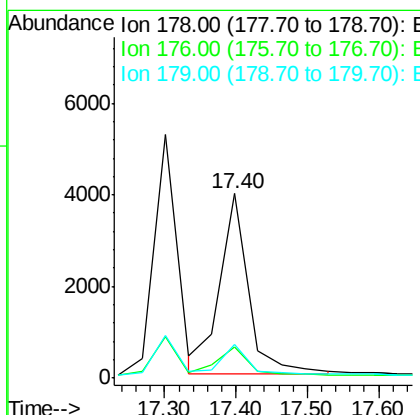
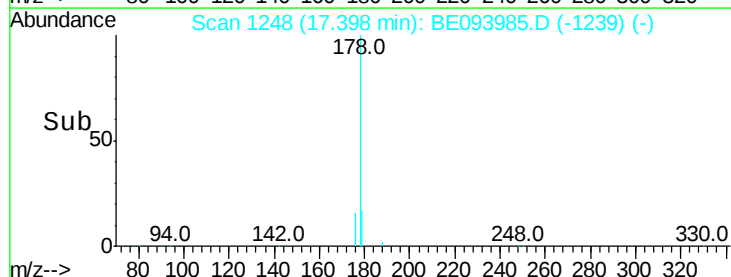
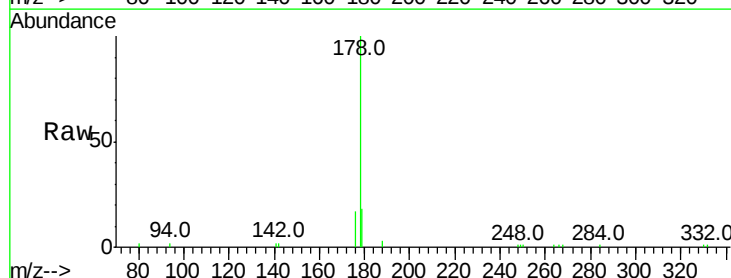
RT: 17.40 min Scan# 1248

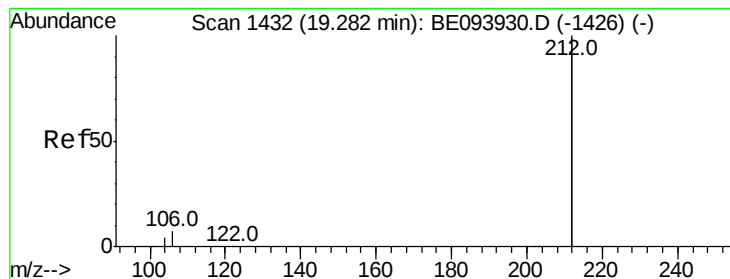
Delta R.T. 0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 13.2  | 16.0  | 24.0# |
| 179     | 14.0  | 0.0   | 0.0#  |





#25

Fluoranthene-d10

Concen: 0.426 ng

RT: 19.29 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

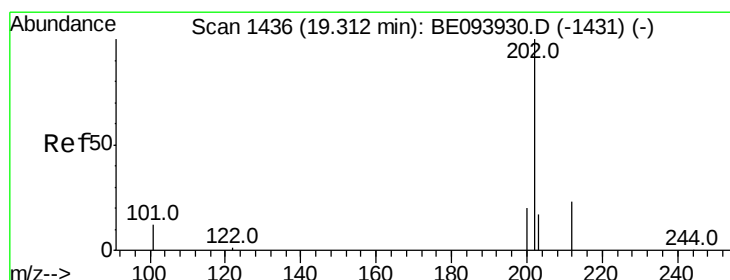
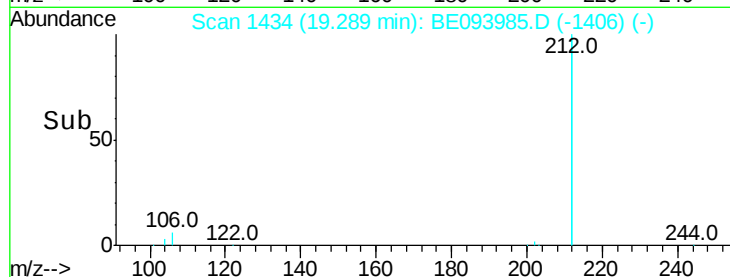
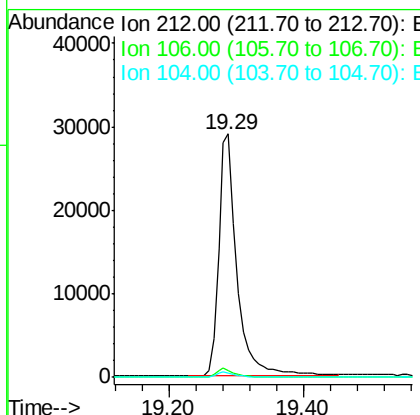
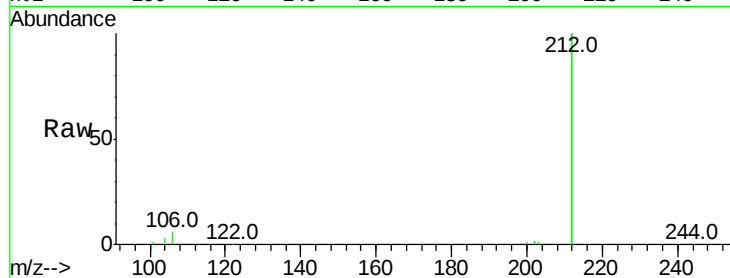
ClientSampleId :

PB102256BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 54714 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.4   | 2.7   | 4.1   |
| 104       | 1.9   | 1.6   | 2.4   |

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#26

Fluoranthene

Concen: 0.385 ng

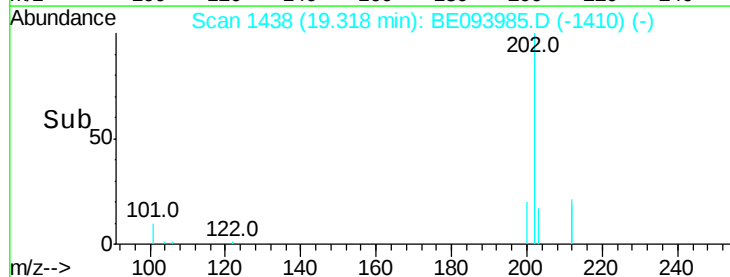
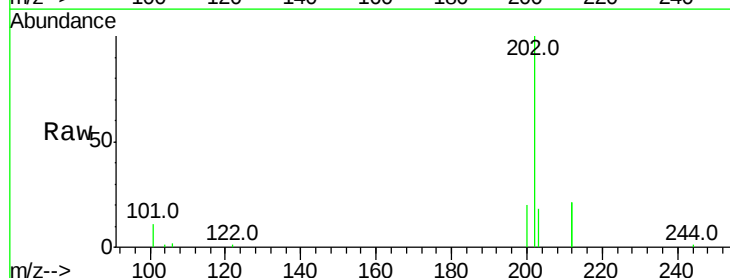
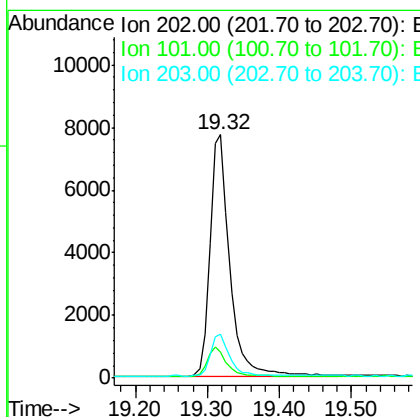
RT: 19.32 min Scan# 1438

Delta R.T. 0.01 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 14779 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.1  | 9.7   | 14.5  |
| 203       | 17.3  | 13.7  | 20.5  |





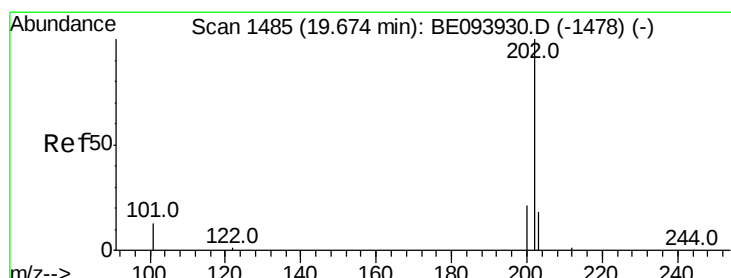
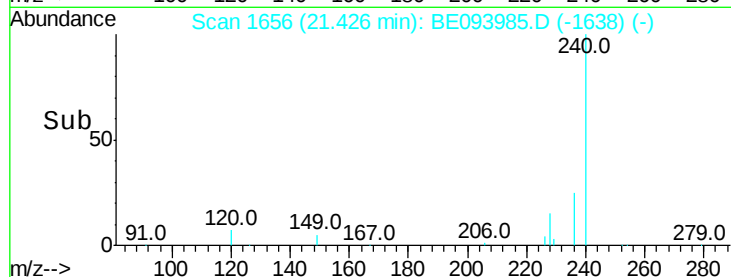
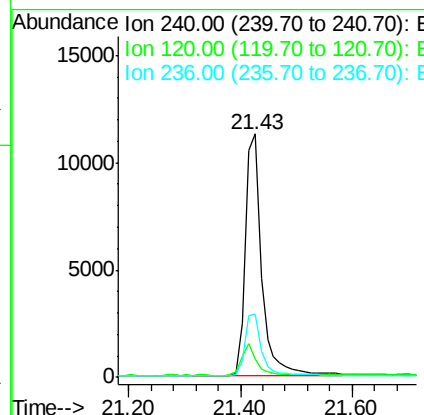
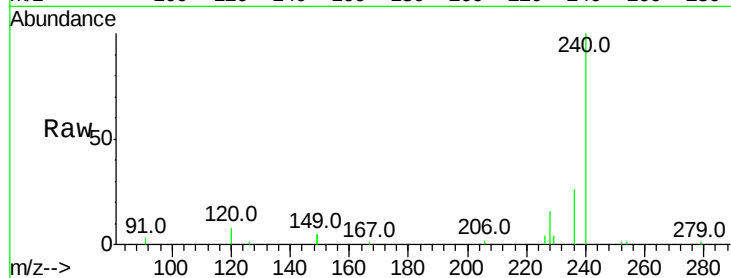
#27  
Chrysene-d12  
Concen: 0.800 ng  
RT: 21.43 min Scan# 1656  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.8   | 8.7   | 13.1# |
| 236     | 25.9  | 21.3  | 31.9  |

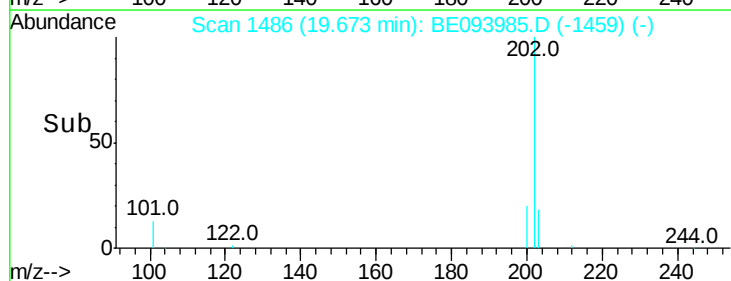
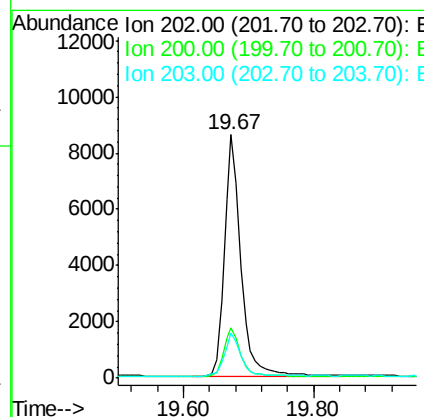
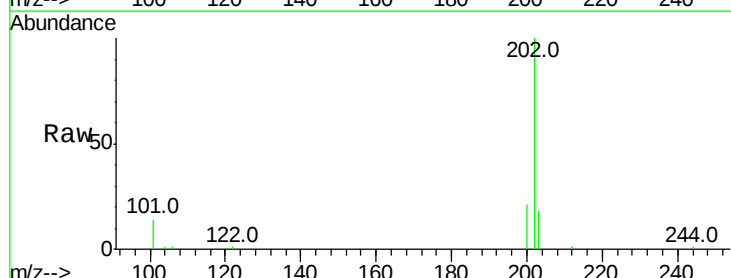
Manual Integrations  
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#28  
Pyrene  
Concen: 0.387 ng  
RT: 19.67 min Scan# 1486  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.6  | 16.6  | 24.8  |
| 203     | 18.0  | 14.2  | 21.4  |





#29

Terphenyl-d14

Concen: 0.490 ng

RT: 19.87 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

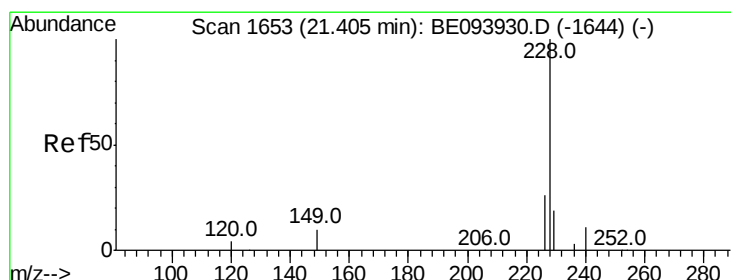
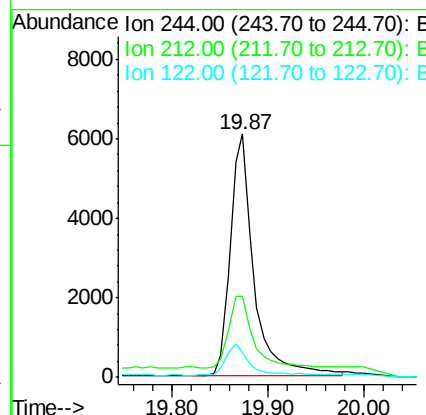
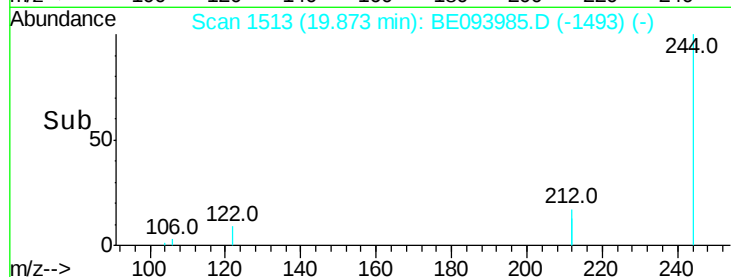
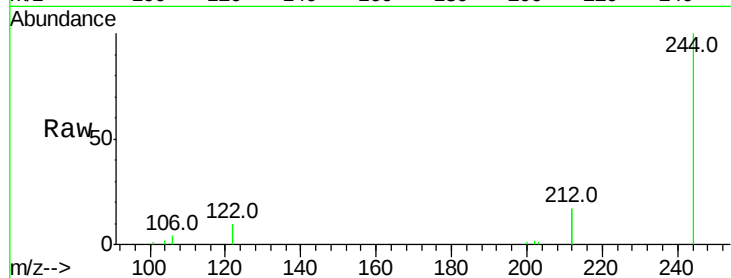
ClientSampleId :

PB102256BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 10244 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 33.1  | 28.3  | 42.5  |
| 122       | 10.4  | 9.4   | 14.0  |

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#30

Benzo(a)anthracene

Concen: 0.390 ng

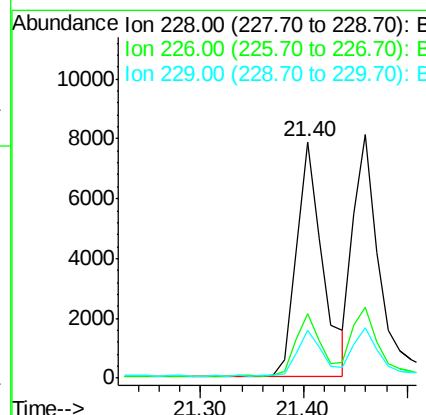
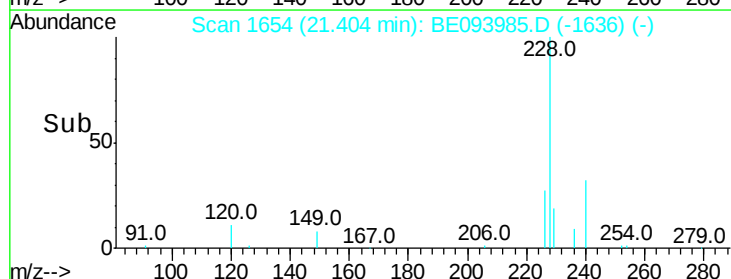
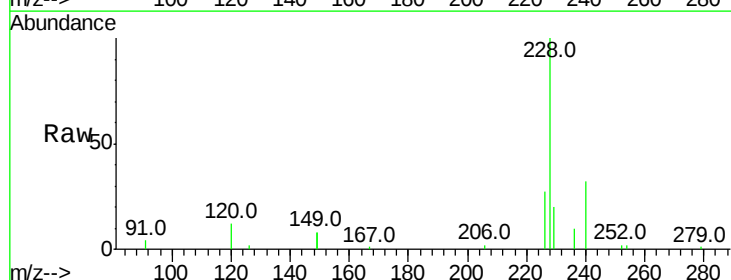
RT: 21.40 min Scan# 1654

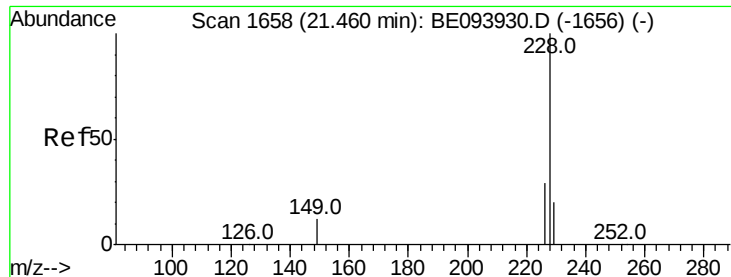
Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 13611 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.4  | 20.8  | 31.2  |
| 229       | 20.0  | 16.6  | 25.0  |





#31

Chrysene

Concen: 0.385 ng

RT: 21.46 min Scan# 1659

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

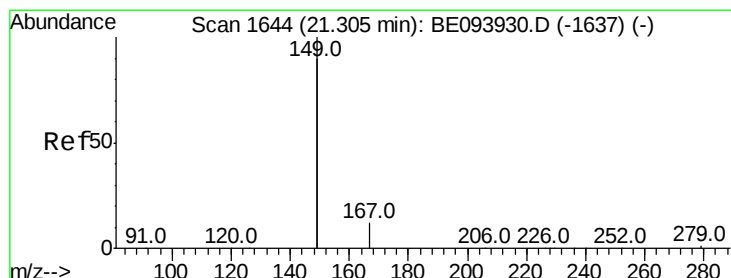
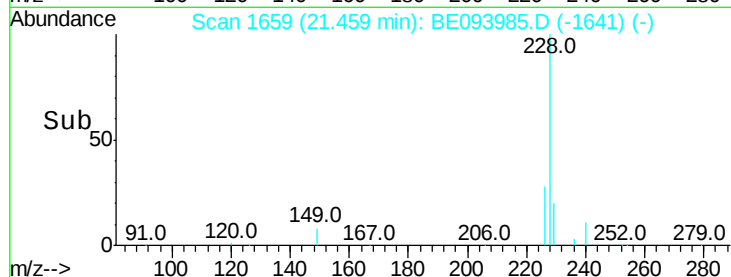
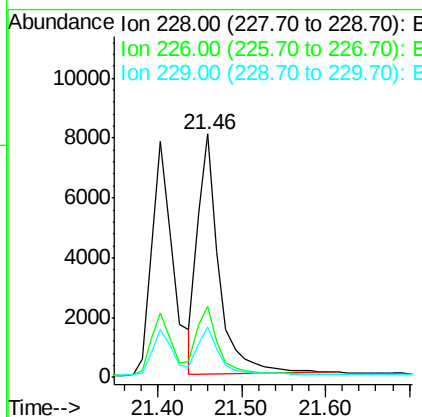
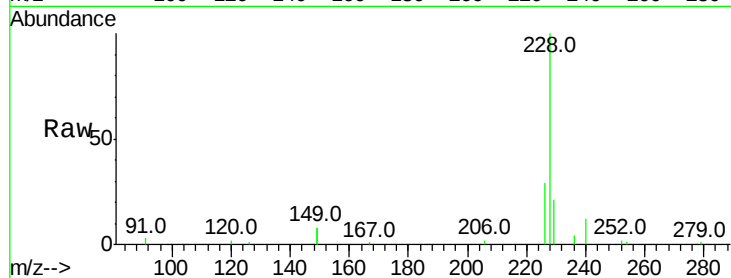
ClientSampled :

PB102256BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 14216 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.1  | 24.6  | 37.0  |
| 229       | 20.8  | 15.8  | 23.8  |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.333 ng

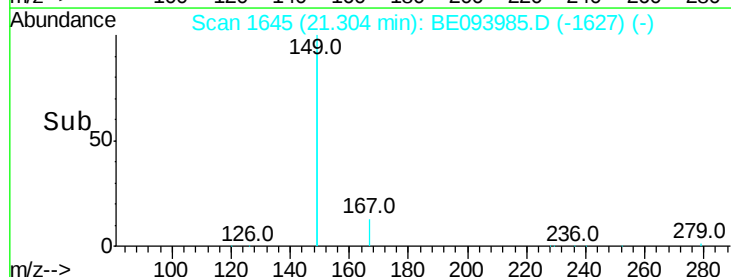
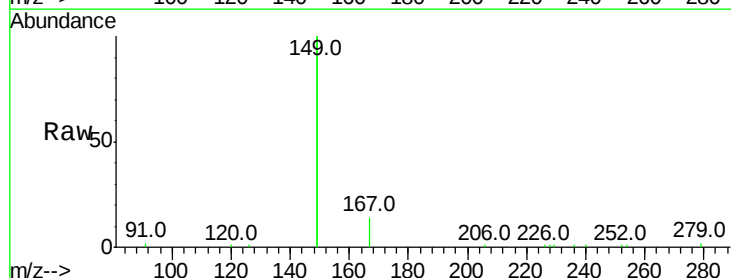
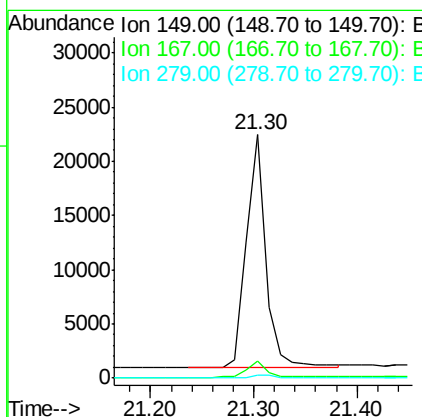
RT: 21.30 min Scan# 1645

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 28187 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 6.6   | 5.4   | 8.0   |
| 279       | 0.9   | 0.7   | 1.1   |





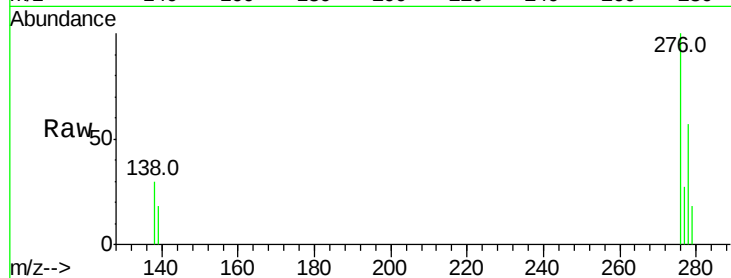
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.336 ng  
RT: 26.61 min Scan# 2711  
Delta R.T. 0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

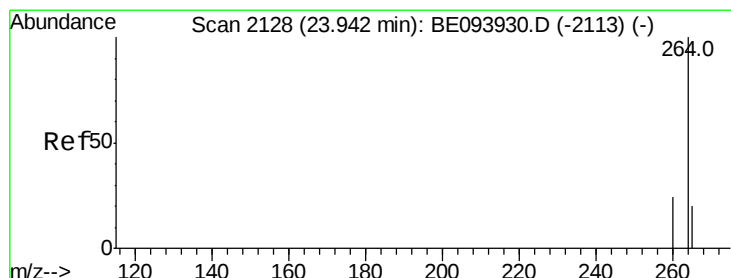
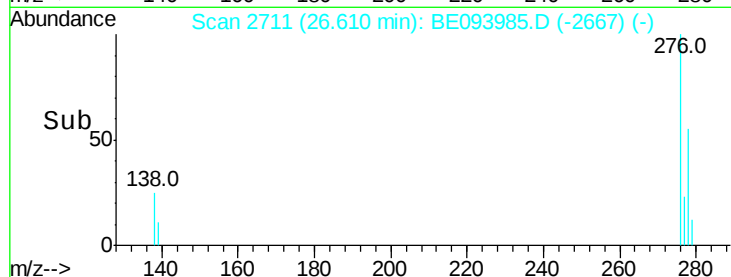
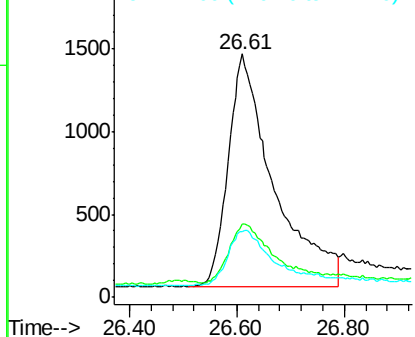
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.7  | 22.2  | 33.2  |
| 277     | 24.9  | 19.5  | 29.3  |

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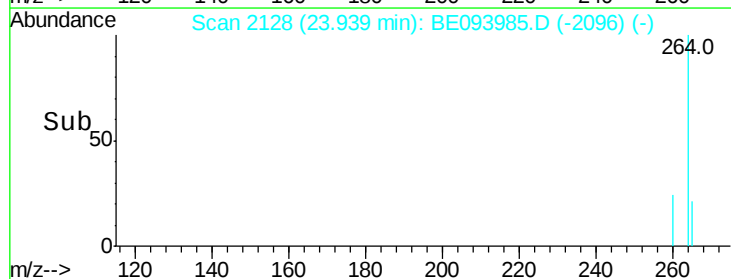
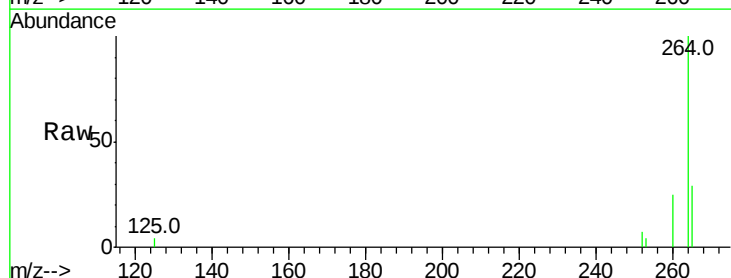
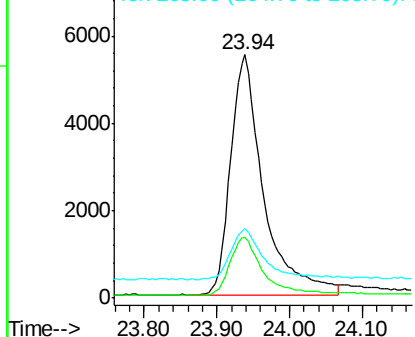
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.800 ng  
RT: 23.94 min Scan# 2128  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 20.0  | 30.0  |
| 265     | 28.6  | 24.0  | 36.0  |

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





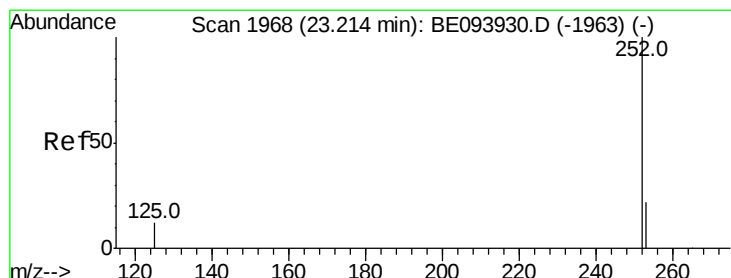
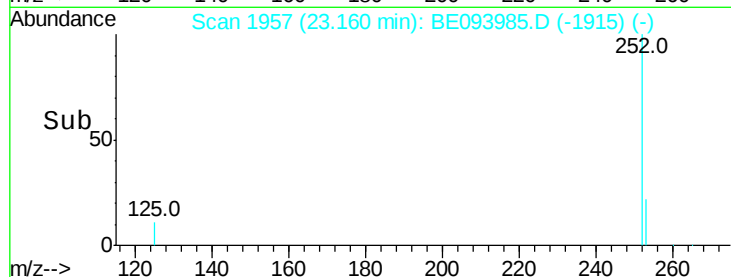
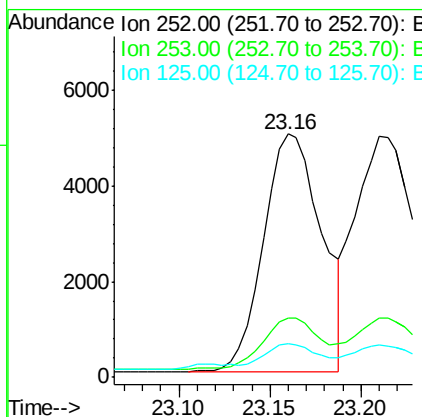
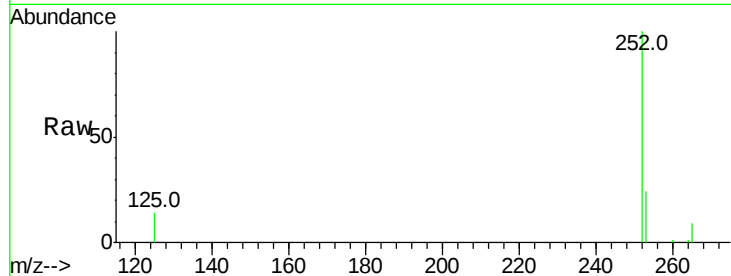
#35  
Benzo(b)fluoranthene  
Concen: 0.400 ng  
RT: 23.16 min Scan# 1957  
Delta R.T. -0.01 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB102256BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 19.4  | 29.0  |
| 125     | 13.7  | 10.0  | 15.0  |

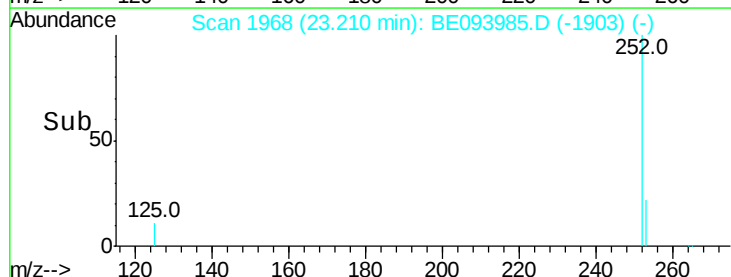
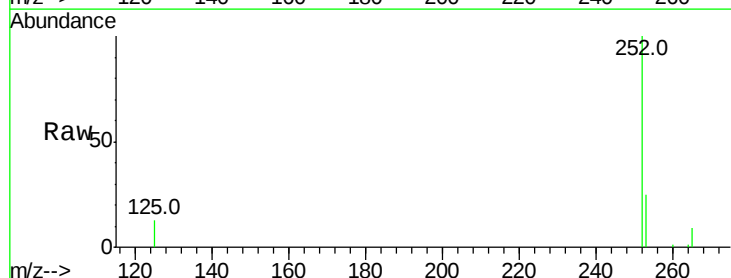
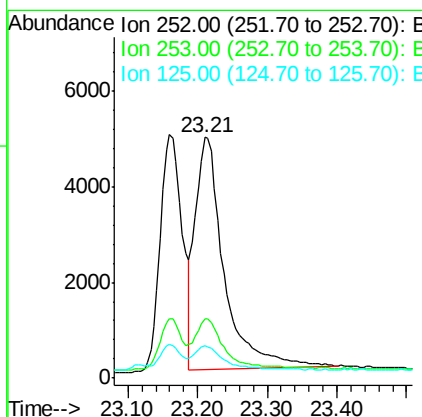
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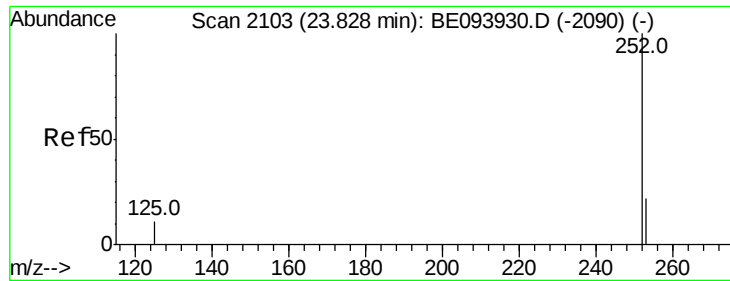
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#36  
Benzo(k)fluoranthene  
Concen: 0.413 ng  
RT: 23.21 min Scan# 1968  
Delta R.T. -0.00 min  
Lab File: BE093985.D  
Acq: 13 Sep 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 18.1  | 27.1  |
| 125     | 13.4  | 9.8   | 14.6  |





#37

Benzo(a)pyrene

Concen: 0.408 ng

RT: 23.82 min Scan# 2103

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

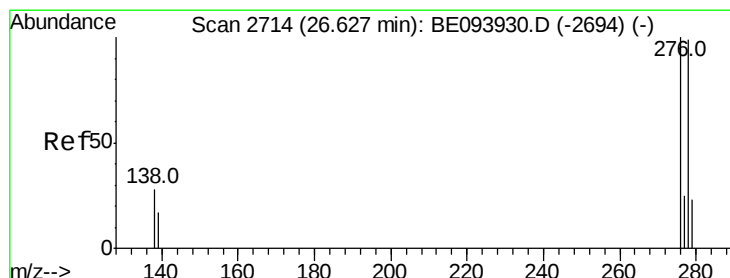
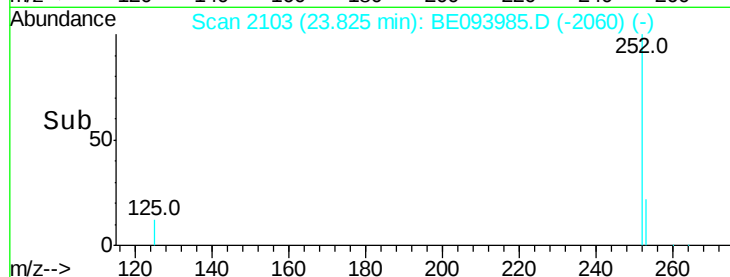
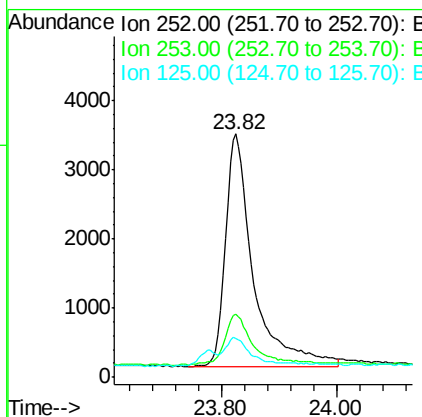
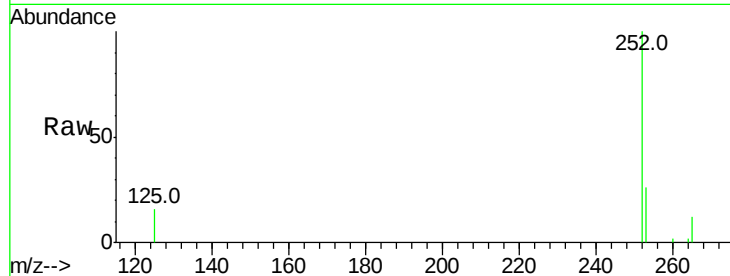
ClientSampleId :

PB102256BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 11450 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 19.6  | 29.4  |
| 125       | 16.1  | 11.8  | 17.8  |

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#38

Dibenzo(a,h)anthracene

Concen: 0.324 ng

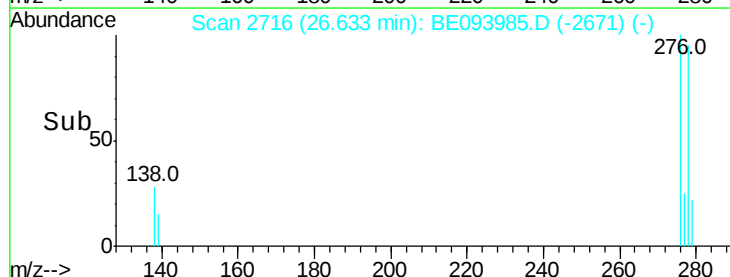
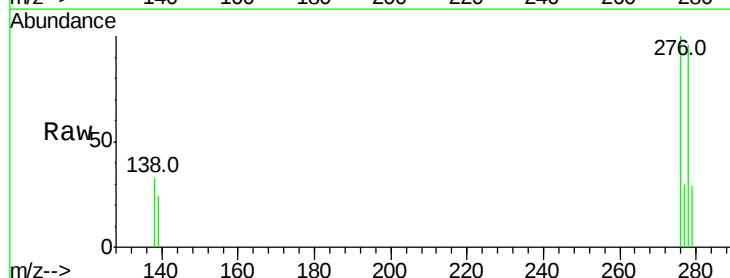
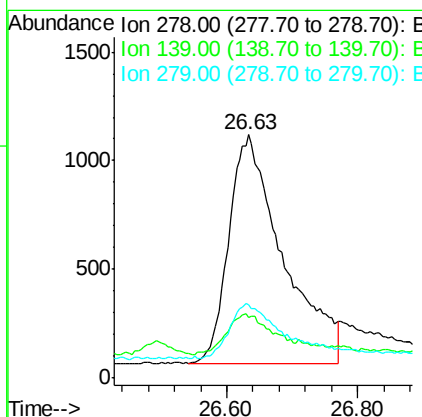
RT: 26.63 min Scan# 2716

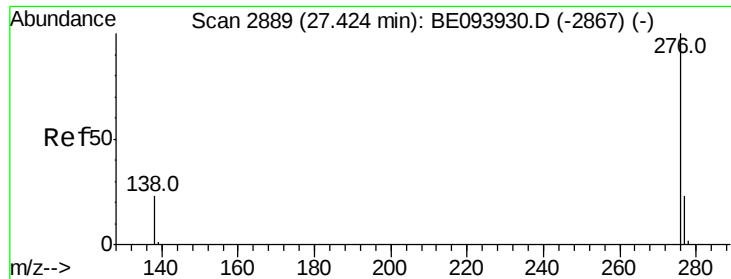
Delta R.T. 0.01 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 6019 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 24.8  | 16.7  | 25.1 |
| 279       | 30.1  | 21.6  | 32.4 |





#39

Benzo(a,h,i)perylene

Concen: 0.373 ng

RT: 27.42 min Scan# 2889

Delta R.T. -0.00 min

Lab File: BE093985.D

Acq: 13 Sep 2017 12:35

Instrument :

BNA\_E

ClientSampleId :

PB102256BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 7321 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 27.5  | 20.6  | 30.8 |
| 138       | 27.6  | 21.9  | 32.9 |

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