

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080317\  
 Data File : BE093652.D  
 Acq On : 3 Aug 2017 11:05  
 Operator : SJ/JU  
 Sample : I4425-06  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CSSB-29-1

Manual Integrations  
 APPROVED

Sohil  
 8/4/2017 5:29:06 PM

Quant Time: Aug 04 04:29:34 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 02 10:58:31 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.92  | 152  | 2828     | 0.40  | ng    | -0.01     |
| 7) Naphthalene-d8              | 10.71 | 136  | 14113    | 0.40  | ng    | 0.00      |
| 13) Acenaphthene-d10           | 14.52 | 164  | 8415     | 0.40  | ng    | 0.00      |
| 19) Phenanthrene-d10           | 17.24 | 188  | 22081    | 0.40  | ng    | 0.00      |
| 27) Chrysene-d12               | 21.40 | 240  | 21788    | 0.40  | ng    | -0.01     |
| 34) Perylene-d12               | 23.91 | 264  | 19330    | 0.40  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 4) 2-Fluorophenol              | 5.51  | 112  | 2845     | 0.34  | ng    | 0.00      |
| 5) Phenol-d6                   | 7.09  | 99   | 4526     | 0.36  | ng    | -0.01     |
| 8) Nitrobenzene-d5             | 9.06  | 82   | 3414     | 0.32  | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10    | 12.29 | 152  | 6136     | 0.28  | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol       | 16.00 | 330  | 612      | 0.35  | ng    | 0.00      |
| 15) 2-Fluorobiphenyl           | 13.15 | 172  | 8798     | 0.26  | ng    | -0.02     |
| 25) Fluoranthene-d10           | 19.27 | 212  | 64676    | 0.26  | ng    | 0.00      |
| 29) Terphenyl-d14              | 19.86 | 244  | 9969     | 0.25  | ng    | 0.00      |
| Target Compounds               |       |      |          |       |       |           |
| 12) 2-Methylnaphthalene        | 12.36 | 142  | 954      | 0.035 | ng    | Qvalue 96 |
| 23) Phenanthrene               | 17.27 | 178  | 1482     | 0.031 | ng    | # 87      |
| 26) Fluoranthene               | 19.30 | 202  | 2542     | 0.033 | ng    | # 96      |
| 28) Pyrene                     | 19.66 | 202  | 2756     | 0.039 | ng    | # 82      |
| 30) Benzo(a)anthracene         | 21.39 | 228  | 1381     | 0.022 | ng    | # 78      |
| 32) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 26605    | 0.305 | ng    | 98        |
| 33) Indeno(1,2,3-cd)pyrene     | 26.55 | 276  | 1331     | 0.021 | ng    | 98        |
| 39) Benzo(g,h,i)perylene       | 27.36 | 276  | 1338     | 0.022 | ng    | # 84      |

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

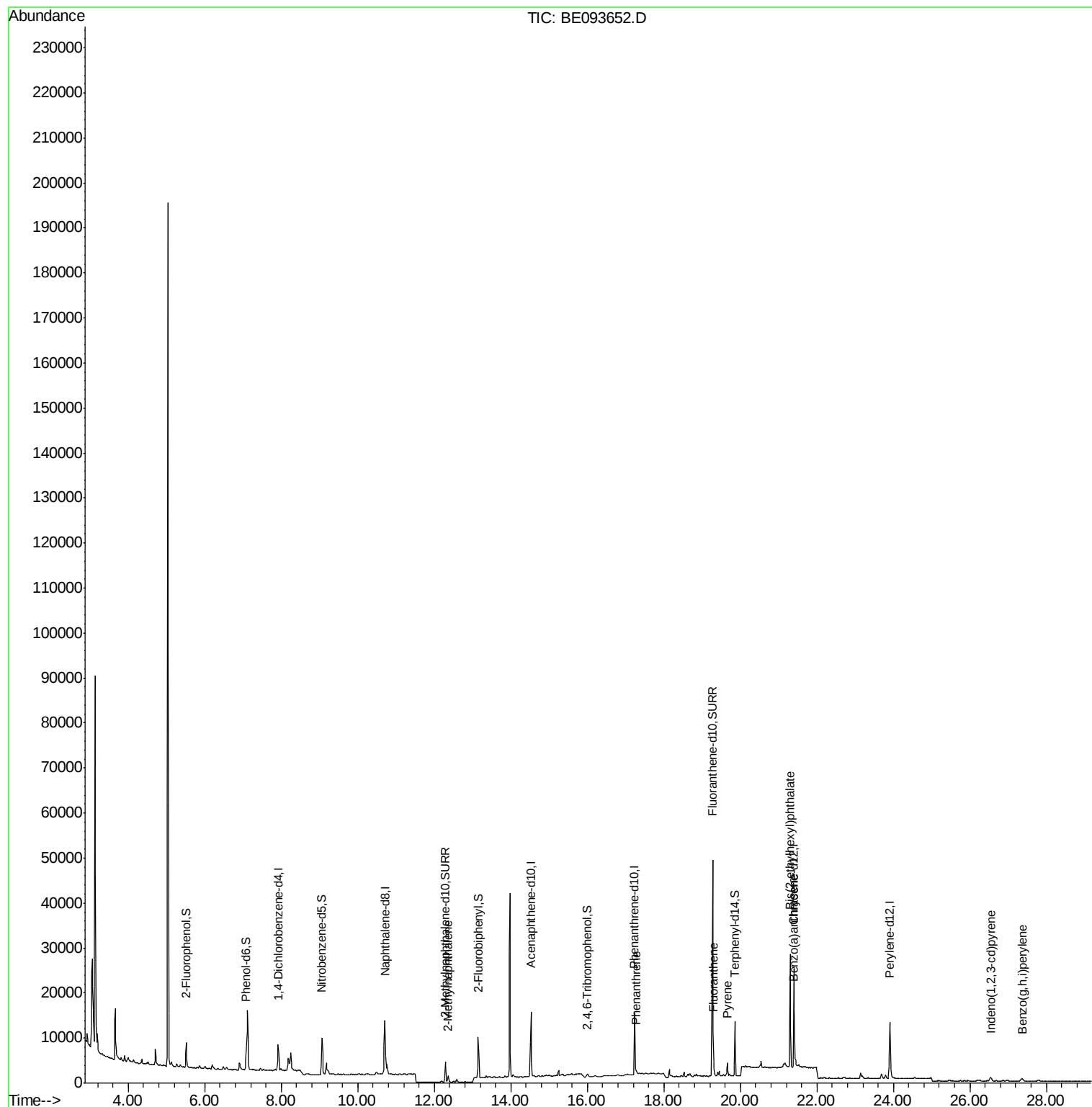
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080317\  
Data File : BE093652.D  
Acq On : 3 Aug 2017 11:05  
Operator : SJ/JU  
Sample : I4425-06  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

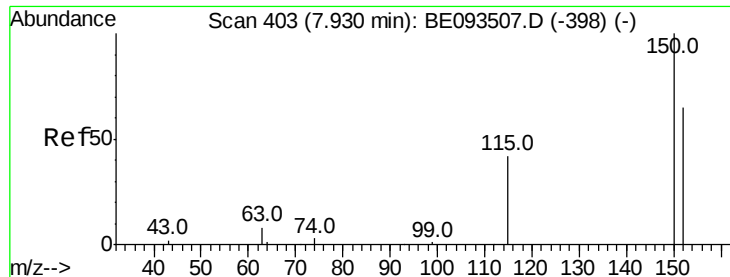
Instrument :  
BNA\_E  
ClientSampleId :  
CSSB-29-1

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Quant Time: Aug 04 04:29:34 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 02 10:58:31 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.92 min Scan# 402

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA\_E

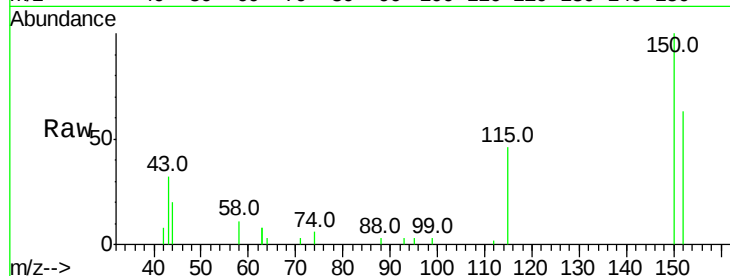
ClientSampleId :

CSSB-29-1

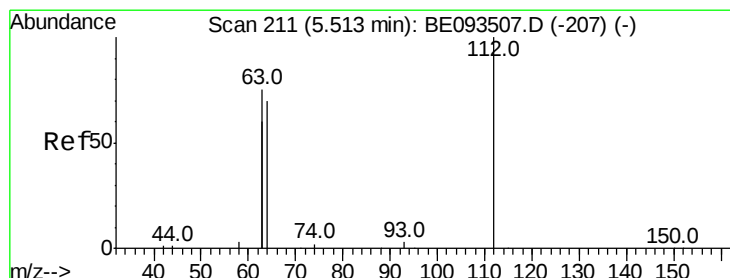
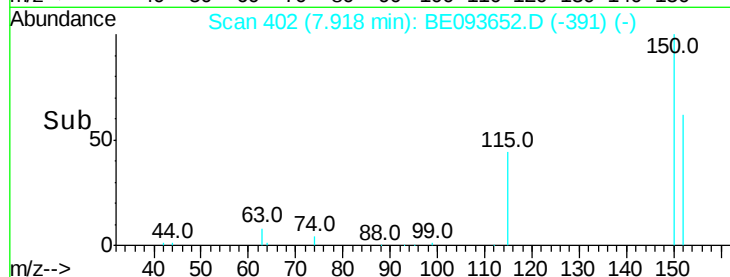
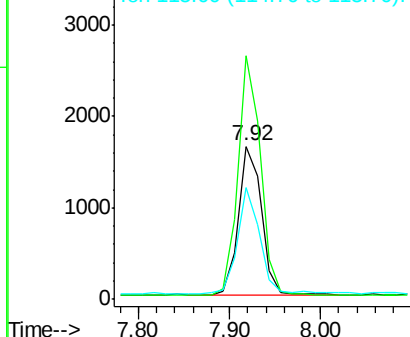
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2828  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 158.9 | 125.1 | 187.7 |
| 115       | 73.1  | 55.7  | 83.5  |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.338 ng

RT: 5.51 min Scan# 211

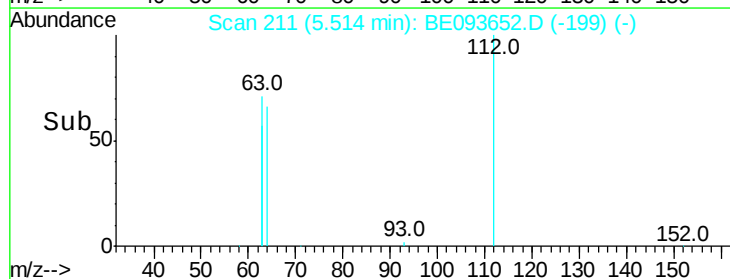
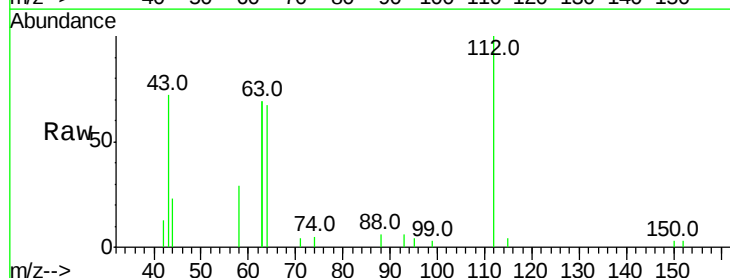
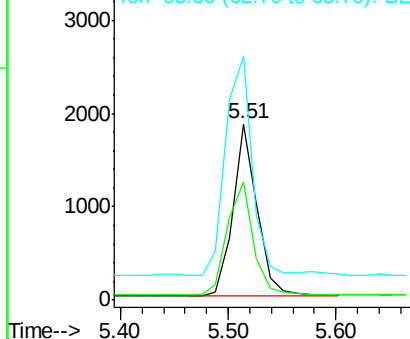
Delta R.T. 0.00 min

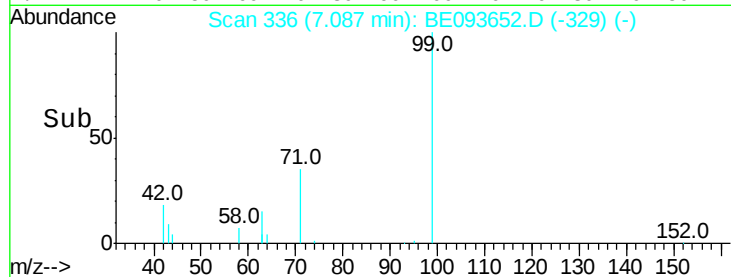
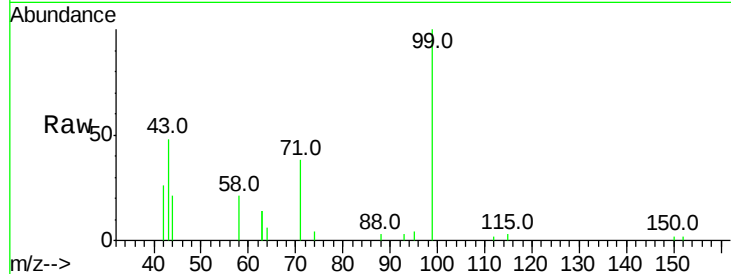
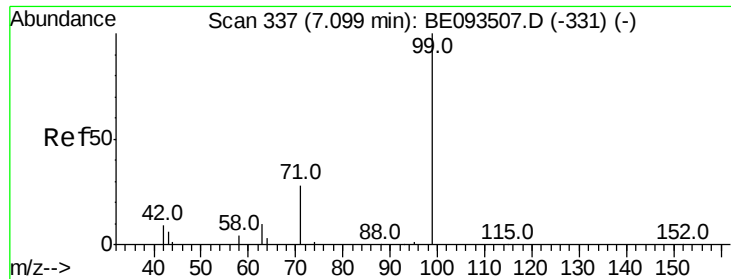
Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 2845  |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 71.0  | 56.4  | 84.6  |
| 63        | 143.8 | 29.3  | 43.9# |

Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE0  
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.357 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 99      | 100   | 4526 |       |       |
| 42      | 30.6  | 0.0  | 0.0#  |       |
| 71      | 34.1  | 0.0  | 0.0#  |       |

Instrument :

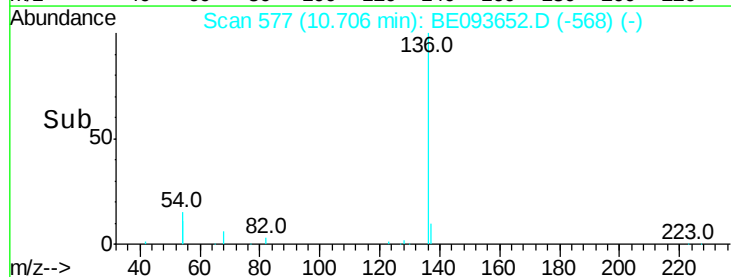
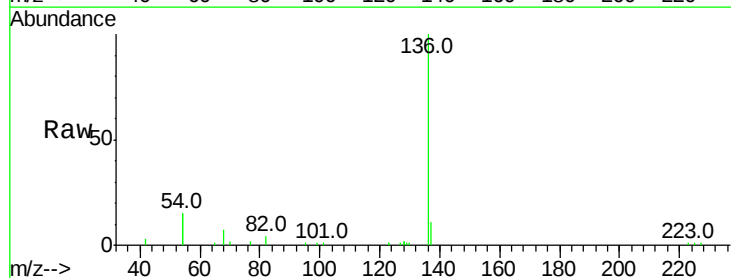
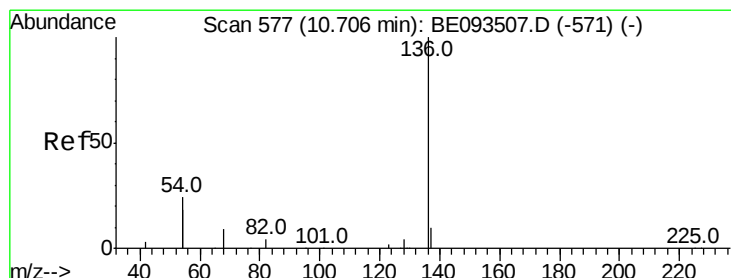
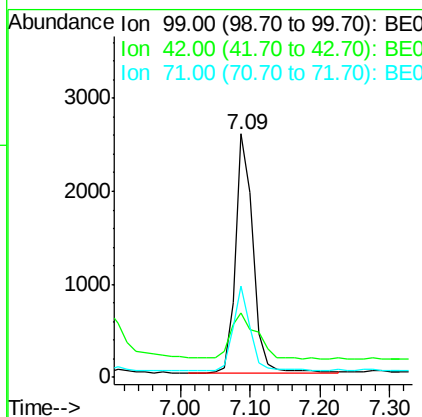
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#7

Naphthalene-d8

Concen: 0.400 ng

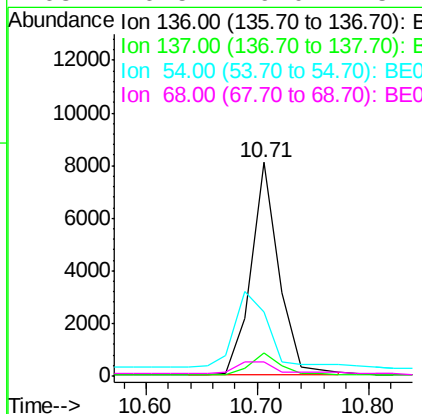
RT: 10.71 min Scan# 577

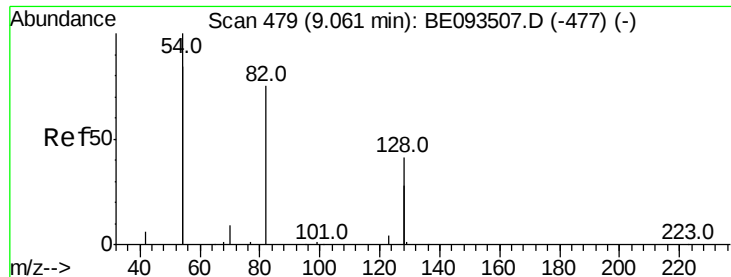
Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 14113 |       |       |
| 137     | 11.0  | 9.8   | 14.8  |       |
| 54      | 30.0  | 10.3  | 15.5# |       |
| 68      | 6.5   | 9.0   | 13.4# |       |





#8

Nitrobenzene-d5

Concen: 0.317 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA\_E

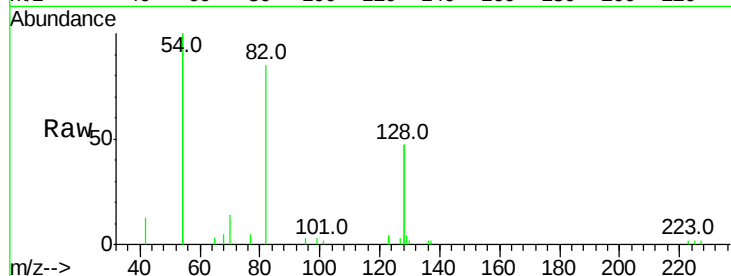
ClientSampled :

CSSB-29-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 82    | Resp: | 3414  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 110.8 | 17.0  | 25.4# |
| 54        | 235.7 | 53.8  | 80.6# |

Manual Integrations  
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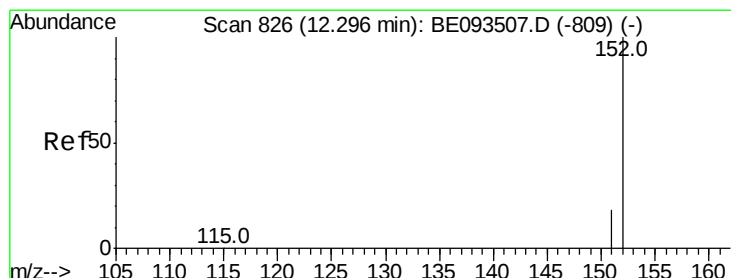
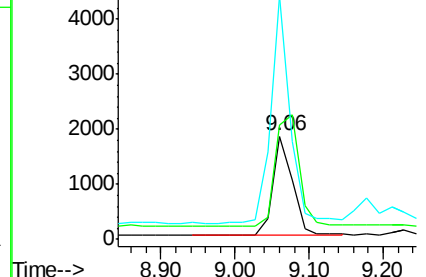
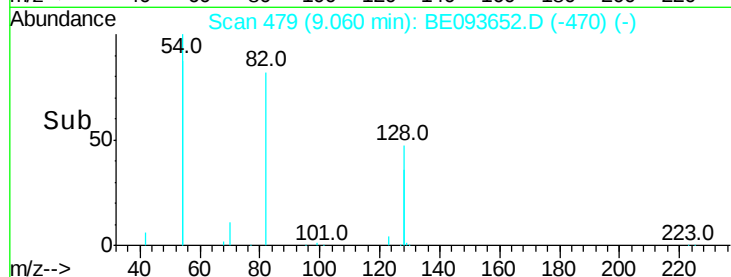
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Abundance Ion 82.00 (81.70 to 82.70): BE093507.D (-477) (-)

Ion 128.00 (127.70 to 128.70): BE093507.D (-477) (-)

Ion 54.00 (53.70 to 54.70): BE093507.D (-477) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.275 ng

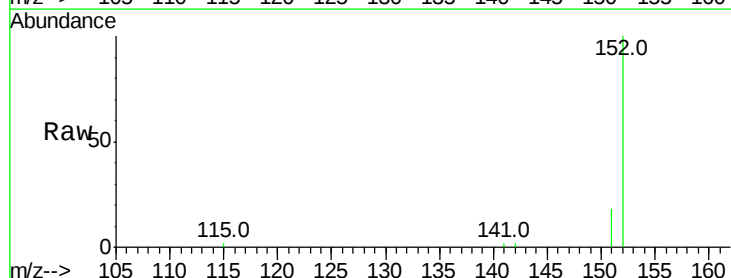
RT: 12.29 min Scan# 824

Delta R.T. -0.01 min

Lab File: BE093652.D

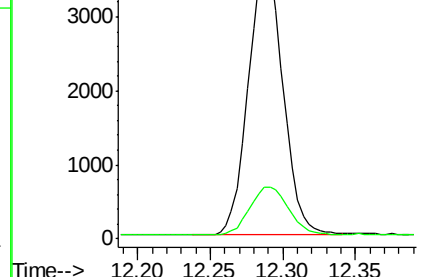
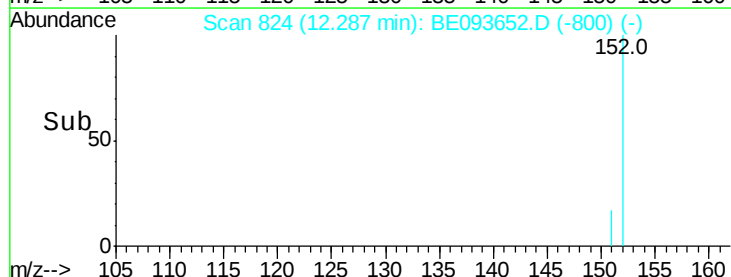
Acq: 3 Aug 2017 11:05

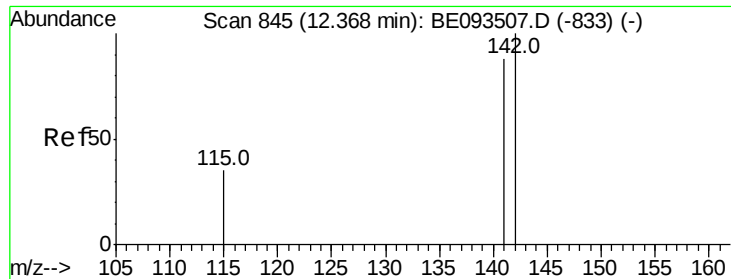
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 6136 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.3  | 15.1  | 22.7 |



Abundance Ion 152.00 (151.70 to 152.70): BE093507.D (-809) (-)

Ion 151.00 (150.70 to 151.70): BE093507.D (-809) (-)





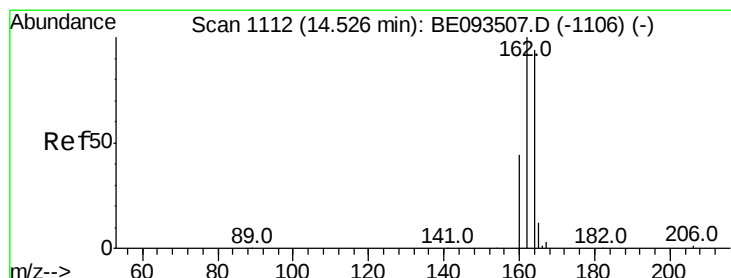
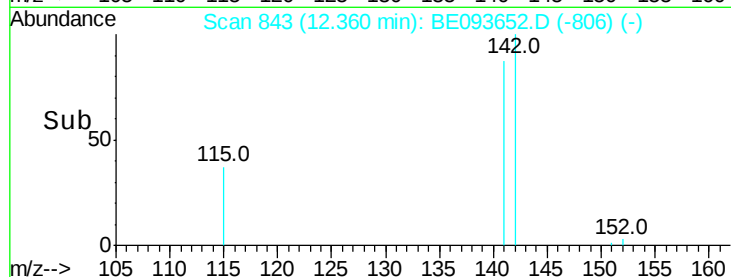
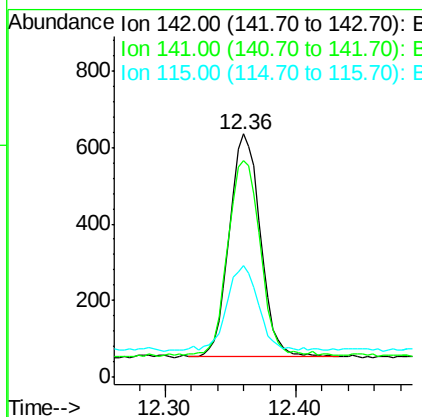
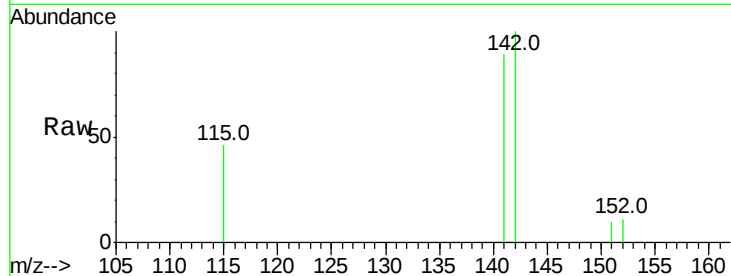
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2-Methylnaphthalene  
Concen: 0.035 ng  
RT: 12.36 min Scan# 843  
Delta R.T. -0.01 min  
Lab File: BE093652.D  
Acq: 3 Aug 2017 11:05

Instrument :  
BNA\_E  
ClientSampleId :  
CSSB-29-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.8  | 72.6  | 108.8 |
| 115     | 45.7  | 32.2  | 48.2  |

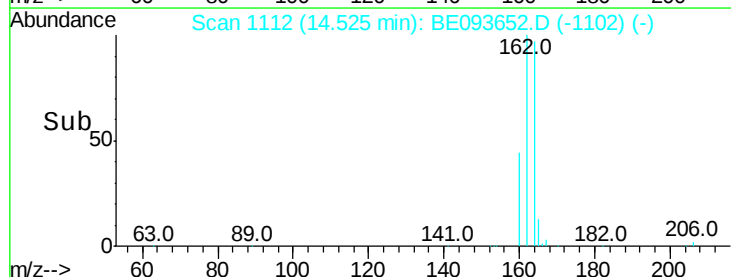
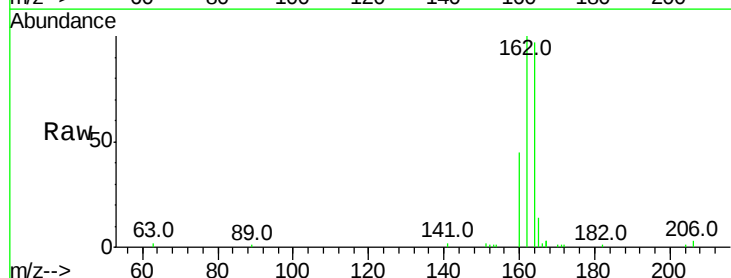
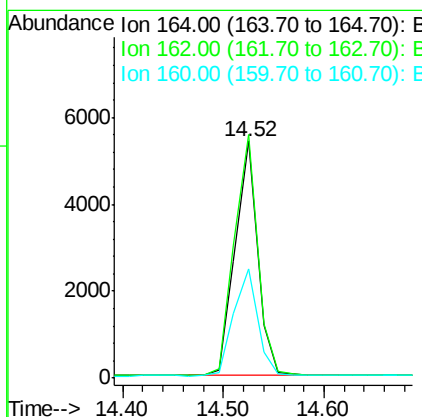
Manual Integrations  
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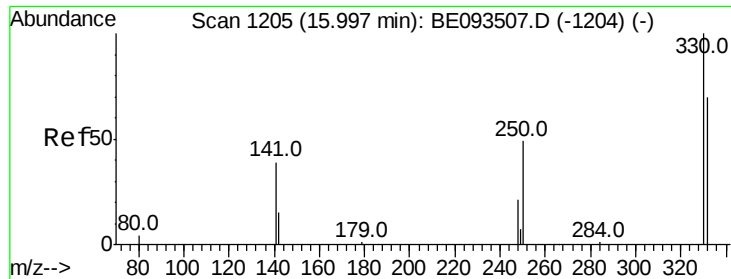
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#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.52 min Scan# 1112  
Delta R.T. -0.00 min  
Lab File: BE093652.D  
Acq: 3 Aug 2017 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.9 | 84.6  | 127.0 |
| 160     | 46.0  | 41.8  | 62.6  |





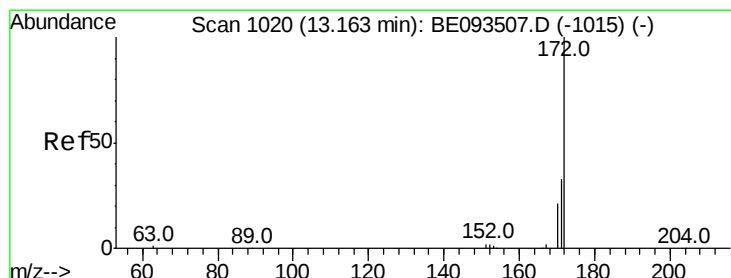
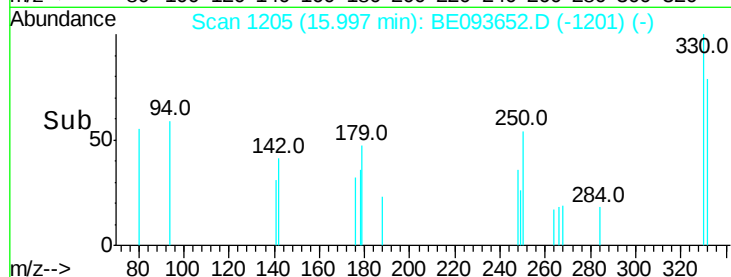
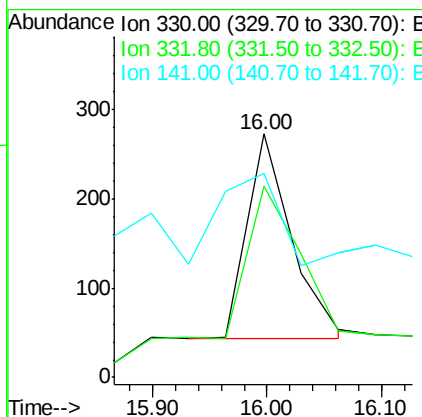
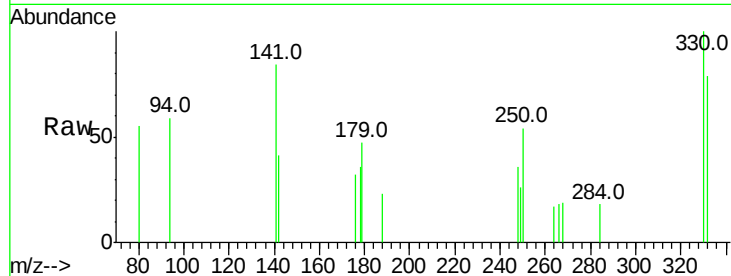
#14  
 2,4,6-Tribromophenol  
 Concen: 0.350 ng  
 RT: 16.00 min Scan# 1205  
 Delta R.T. -0.00 min  
 Lab File: BE093652.D  
 Acq: 3 Aug 2017 11:05

Instrument :  
 BNA\_E  
 ClientSampled :  
 CSSB-29-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 87.6  | 77.7  | 116.5 |
| 141     | 59.2  | 56.2  | 84.4  |

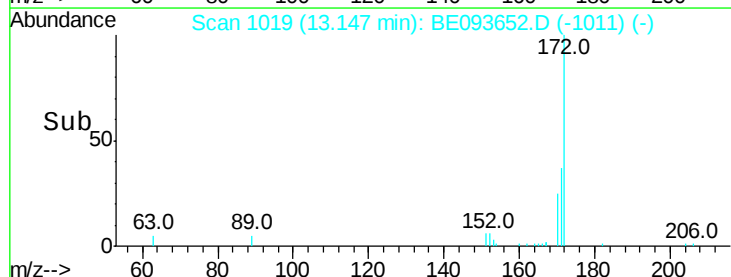
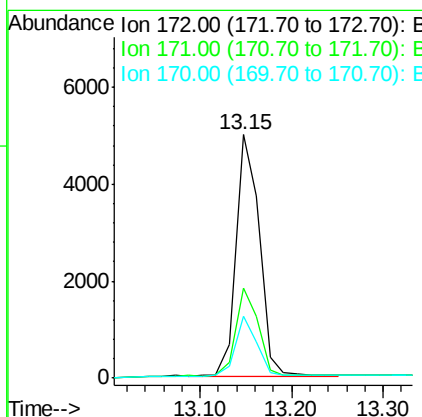
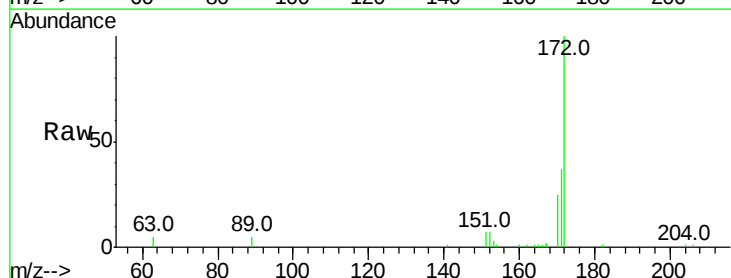
Manual Integrations  
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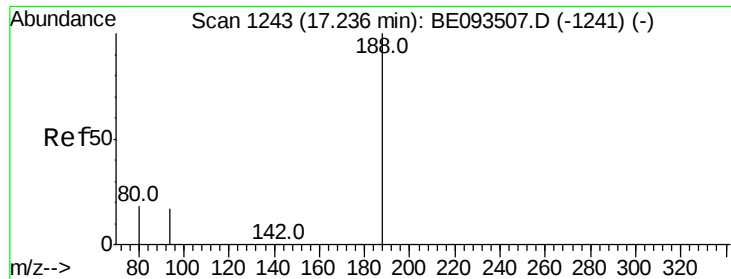
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#15  
 2-Fluorobiphenyl  
 Concen: 0.261 ng  
 RT: 13.15 min Scan# 1019  
 Delta R.T. -0.02 min  
 Lab File: BE093652.D  
 Acq: 3 Aug 2017 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.2  | 29.8  | 44.6  |
| 170     | 25.5  | 20.7  | 31.1  |





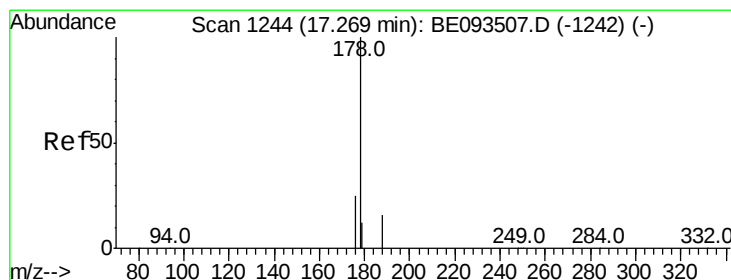
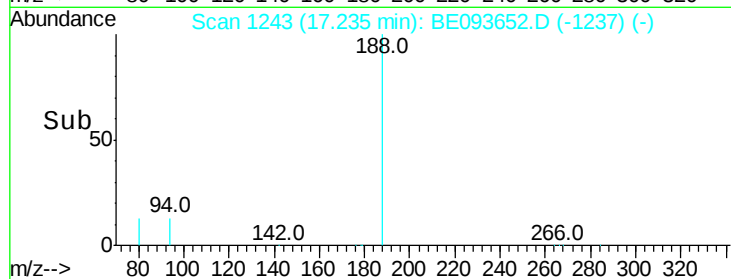
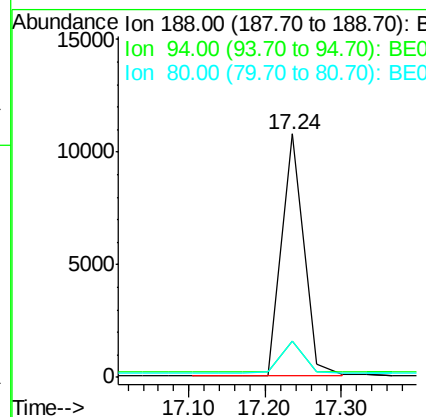
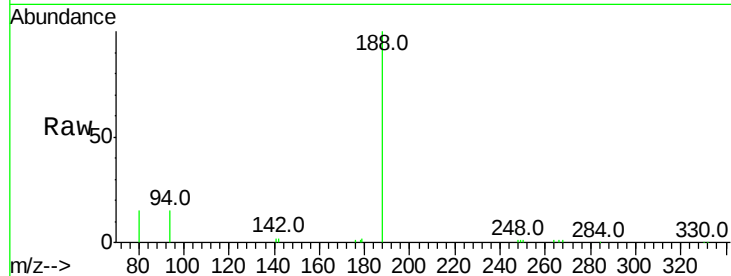
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.24 min Scan# 1243  
Delta R.T. -0.00 min  
Lab File: BE093652.D  
Acq: 3 Aug 2017 11:05

Instrument :  
BNA\_E  
ClientSampled :  
CSSB-29-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 14.9  | 11.3  | 16.9  |
| 80      | 15.1  | 11.7  | 17.5  |

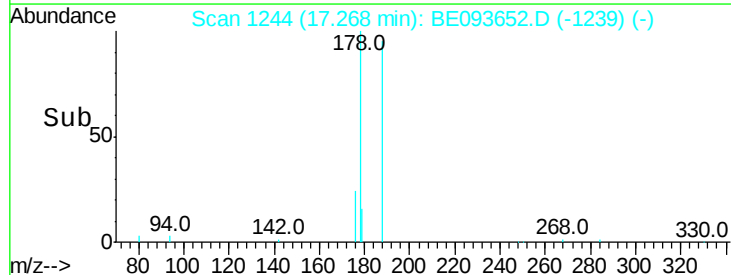
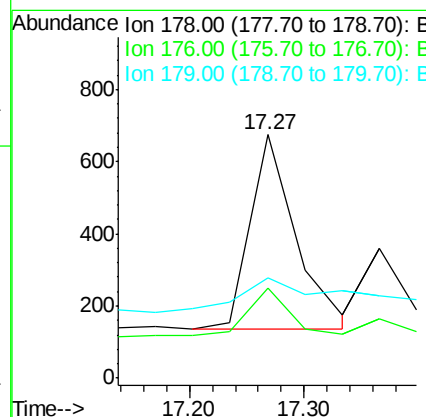
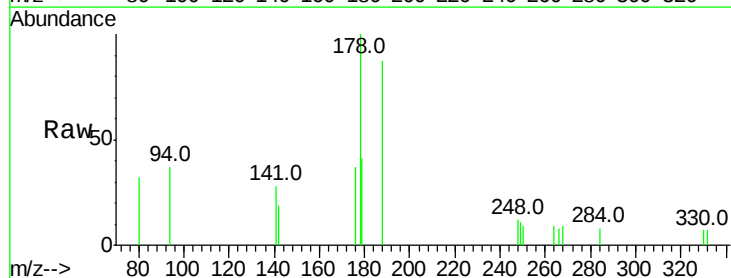
Manual Integrations  
APPROVED

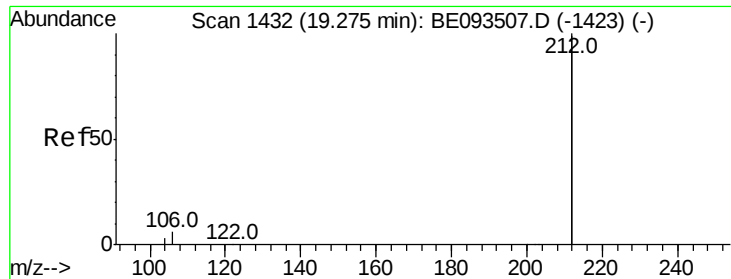
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#23  
Phenanthrene  
Concen: 0.031 ng  
RT: 17.27 min Scan# 1244  
Delta R.T. -0.00 min  
Lab File: BE093652.D  
Acq: 3 Aug 2017 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 21.4  | 15.0  | 22.4  |
| 179     | 24.8  | 12.7  | 19.1# |





#25

Fluoranthene-d10

Concen: 0.258 ng

RT: 19.27 min Scan# 1432

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA\_E

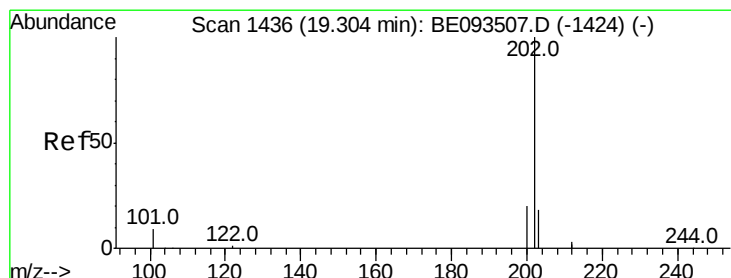
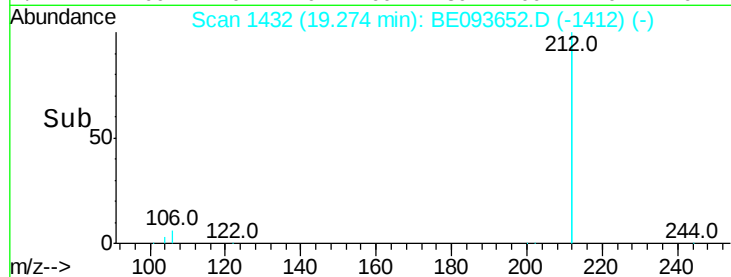
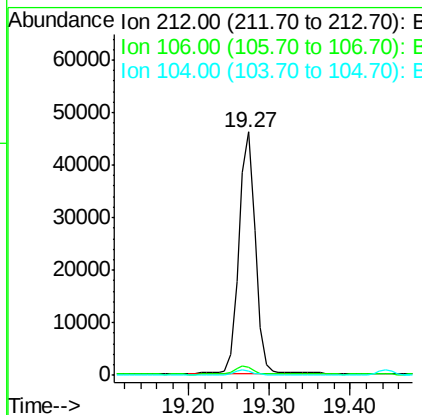
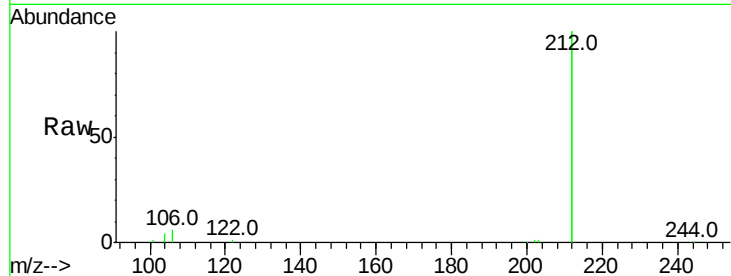
ClientSampled :

CSSB-29-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 64676 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.5   | 2.4   | 3.6   |
| 104       | 2.0   | 1.6   | 2.4   |

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#26

Fluoranthene

Concen: 0.033 ng

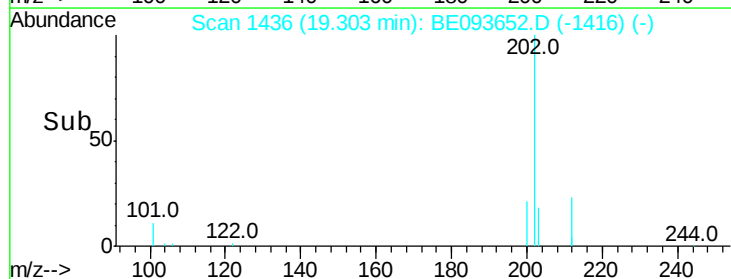
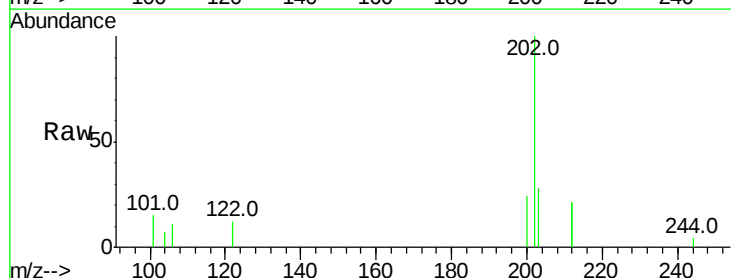
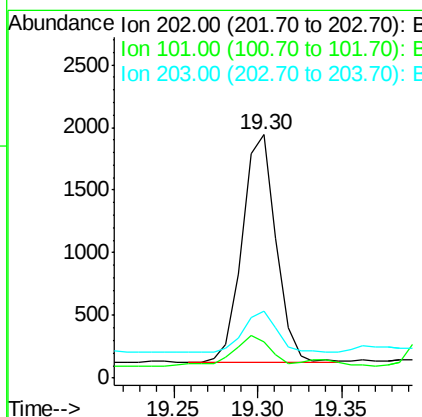
RT: 19.30 min Scan# 1436

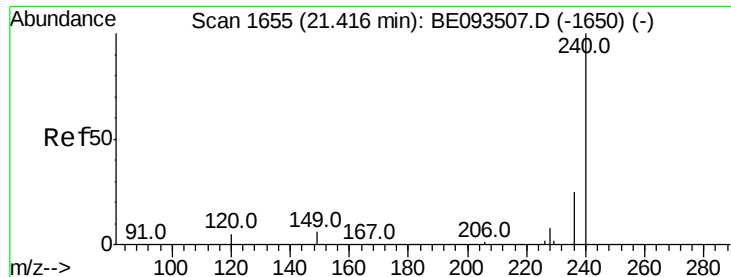
Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 2542  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 15.6  | 9.6   | 14.4# |
| 203       | 18.3  | 14.4  | 21.6  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA\_E

ClientSampled :

CSSB-29-1

Tot Ion:240 Resp: 21788

Ion Ratio Lower Upper

240 100

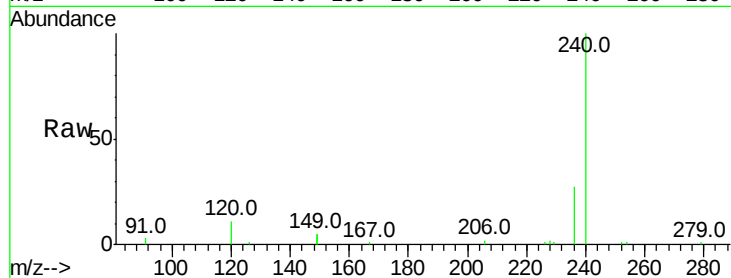
120 11.3 4.6 7.0#

236 26.9 20.8 31.2

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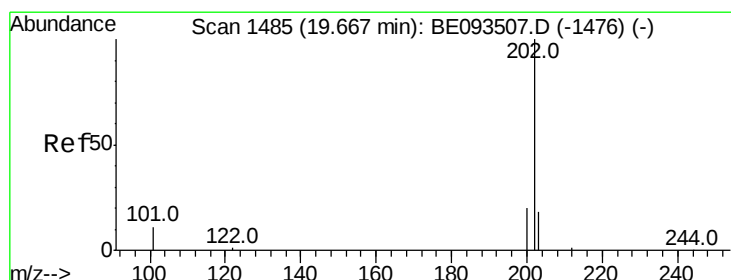
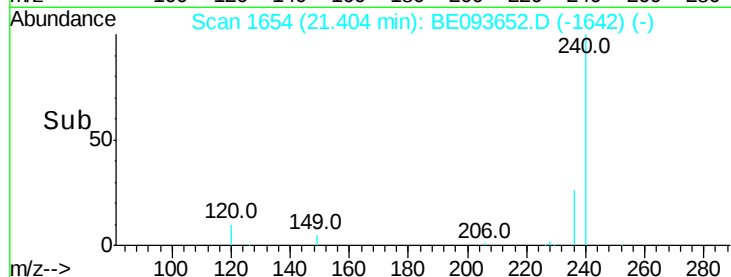
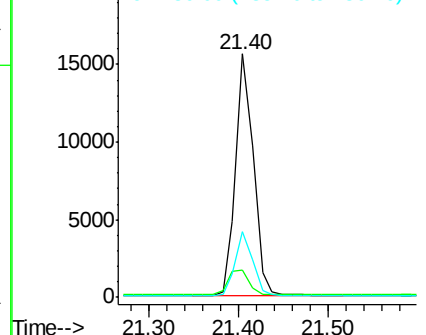
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.039 ng

RT: 19.66 min Scan# 1484

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

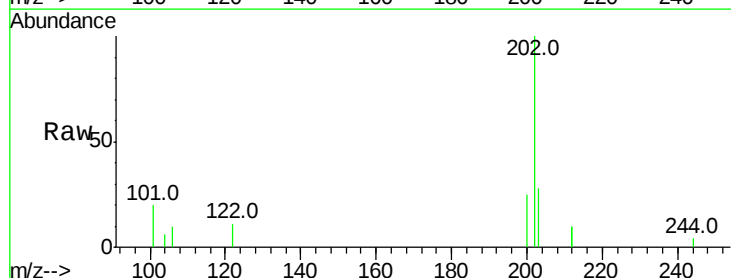
Tgt Ion:202 Resp: 2756

Ion Ratio Lower Upper

202 100

200 21.2 0.0 0.0#

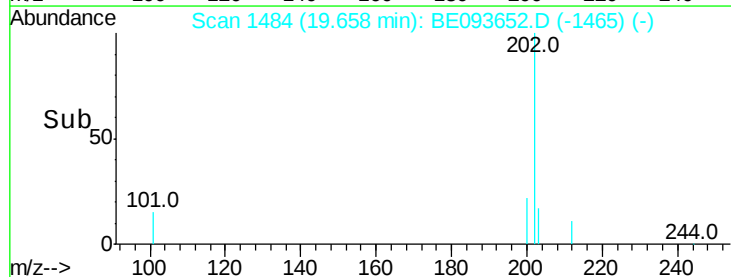
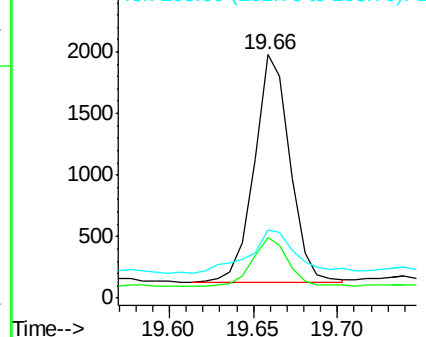
203 25.1 13.7 20.5#

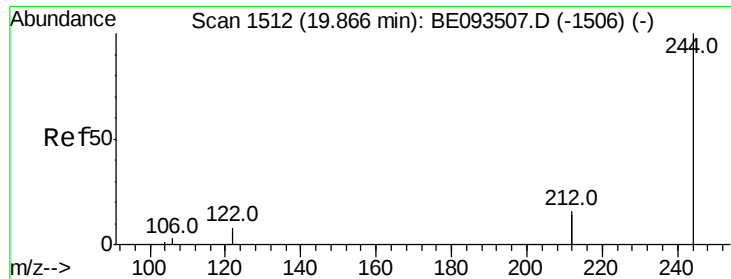


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.255 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA\_E

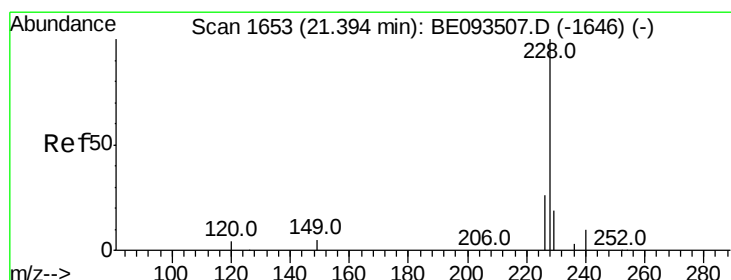
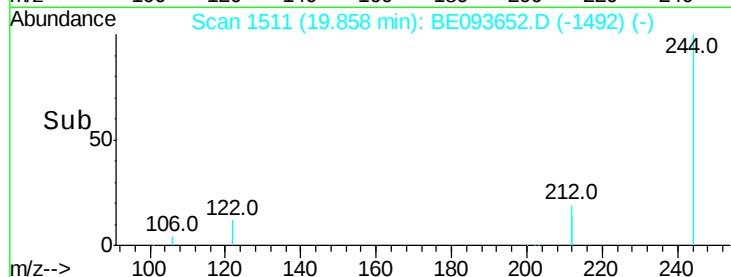
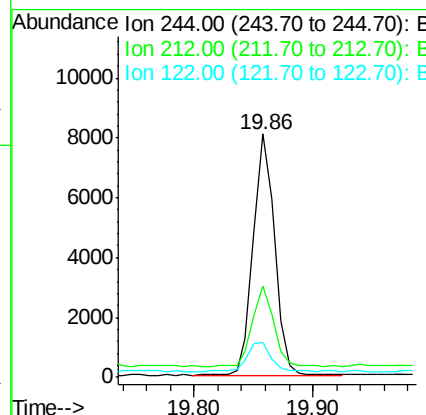
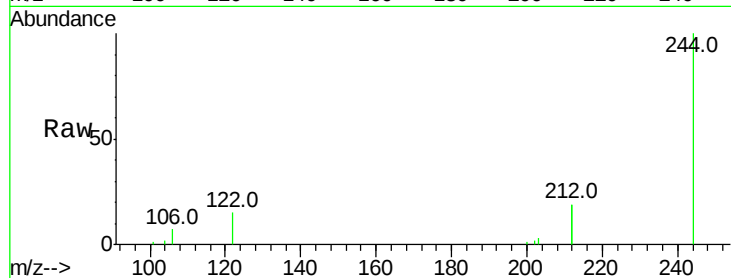
ClientSampled :

CSSB-29-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 37.3  | 10.6  | 16.0# |
| 122     | 14.6  | 15.4  | 23.0# |

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#30

Benzo(a)anthracene

Concen: 0.022 ng

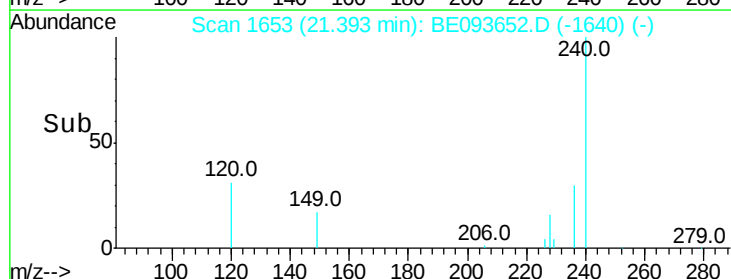
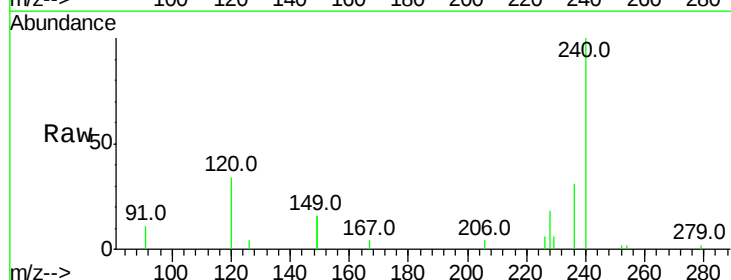
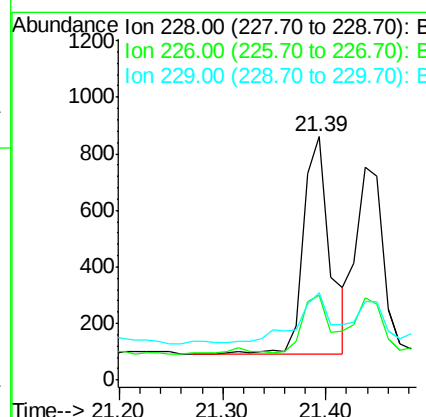
RT: 21.39 min Scan# 1653

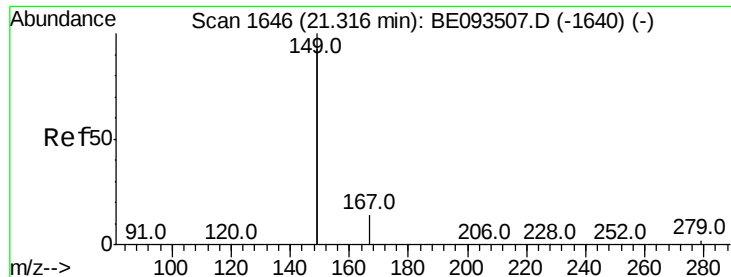
Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.6  | 19.7  | 29.5# |
| 229     | 35.8  | 19.2  | 28.8# |





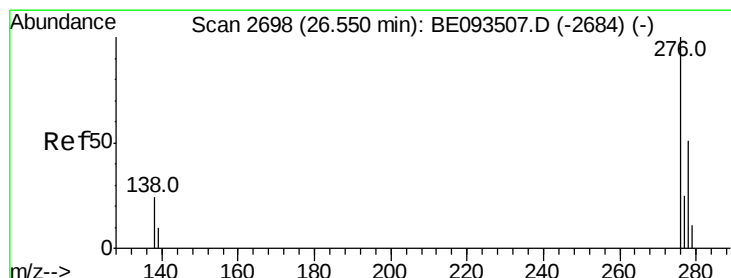
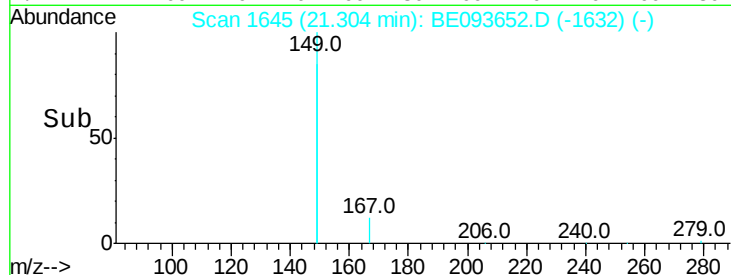
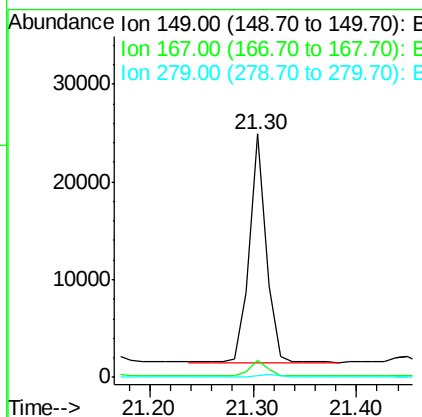
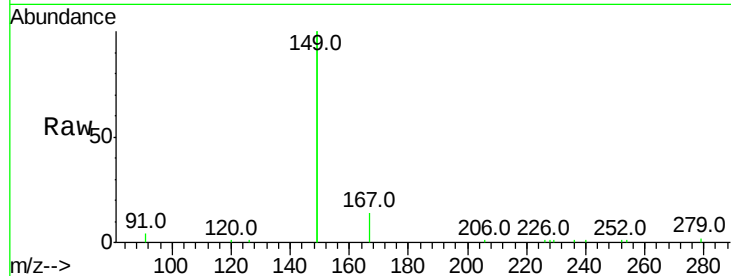
#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.305 ng  
RT: 21.30 min Scan# 1645  
Delta R.T. -0.01 min  
Lab File: BE093652.D  
Acq: 3 Aug 2017 11:05

Instrument :  
BNA\_E  
ClientSampleId :  
CSSB-29-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 26605 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 6.9   | 4.8   | 7.2   |
| 279       | 0.9   | 0.8   | 1.2   |

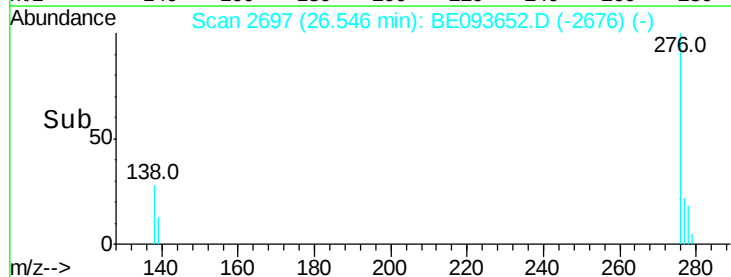
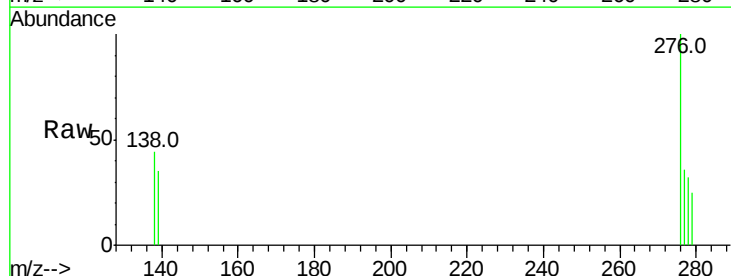
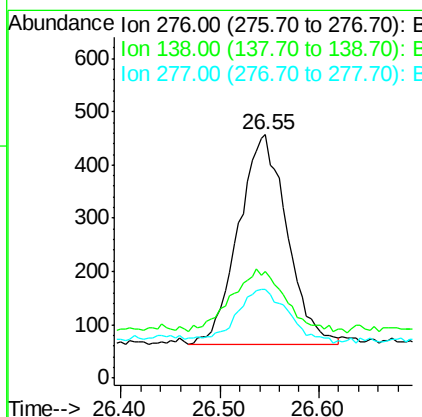
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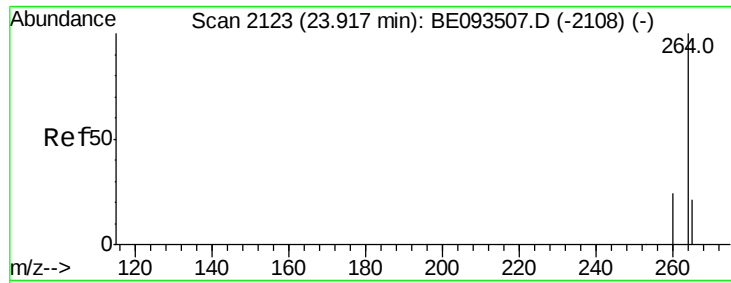
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#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.021 ng  
RT: 26.55 min Scan# 2697  
Delta R.T. -0.00 min  
Lab File: BE093652.D  
Acq: 3 Aug 2017 11:05

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 1331 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 34.3  | 27.4  | 41.2 |
| 277       | 27.8  | 20.1  | 30.1 |





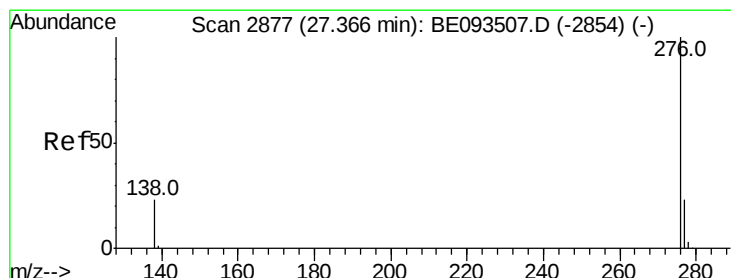
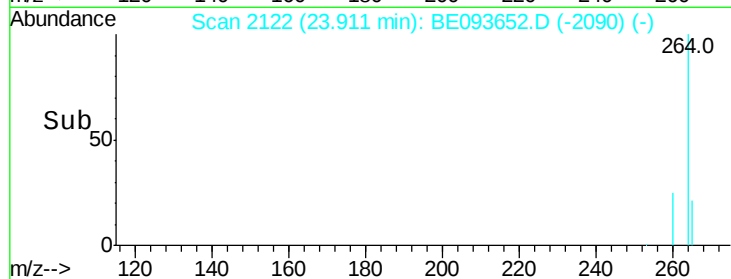
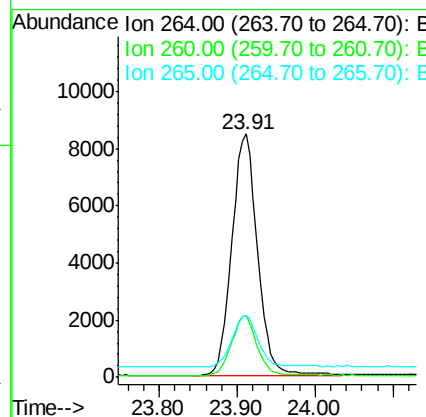
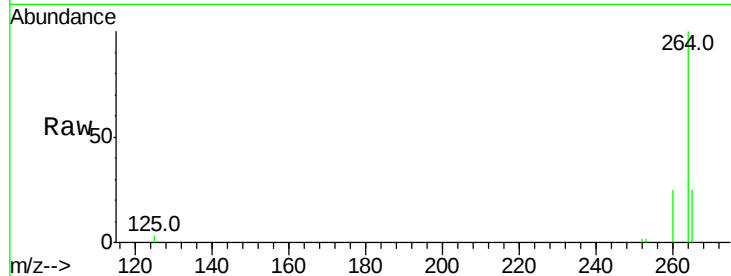
#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.91 min Scan# 2122  
 Delta R.T. -0.01 min  
 Lab File: BE093652.D  
 Acq: 3 Aug 2017 11:05

Instrument :  
 BNA\_E  
 ClientSampled :  
 CSSB-29-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 21.0  | 31.4  |
| 265     | 25.3  | 24.6  | 36.8  |

Manual Integrations  
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#39  
 Benzo(g,h,i)perylene  
 Concen: 0.022 ng  
 RT: 27.36 min Scan# 2875  
 Delta R.T. -0.01 min  
 Lab File: BE093652.D  
 Acq: 3 Aug 2017 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 35.1  | 21.2  | 31.8# |
| 138     | 39.4  | 24.5  | 36.7# |

