

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE101218\  
 Data File : BE097894.D  
 Acq On : 13 Oct 2018 00:21  
 Operator : SJ/JU  
 Sample : J5183-04DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 JLC19DL

Manual Integrations  
 APPROVED

Sohil  
 10/15/2018 3:56:03 PM

Quant Time: Oct 13 04:22:16 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE101118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 13 02:57:21 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 2229     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 11222    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.55 | 164  | 7567     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.32 | 188  | 18144m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.51 | 240  | 17639m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.07 | 264  | 18074m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.30 | 152  | 1372     | 0.07   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.35 | 212  | 3859m    | 0.07   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.75 | 128  | 8753     | 0.321  | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 12.37 | 142  | 4513     | 0.228  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.27 | 152  | 4176     | 0.146  | ng/ul# | 88       |
| 8) Acenaphthene             | 14.62 | 153  | 13723    | 0.618  | ng/ul  | 96       |
| 9) Fluorene                 | 15.61 | 166  | 12700    | 0.438  | ng/ul  | 99       |
| 11) Pentachlorophenol       | 16.98 | 266  | 548m     | 0.214  | ng/ul  |          |
| 12) Phenanthrene            | 17.36 | 178  | 343309m  | 7.992  | ng/ul  |          |
| 13) Anthracene              | 17.45 | 178  | 78129m   | 1.963  | ng/ul  |          |
| 15) Fluoranthene            | 19.38 | 202  | 989329m  | 17.934 | ng/ul  |          |
| 17) Pyrene                  | 19.74 | 202  | 1013788m | 19.293 | ng/ul  |          |
| 18) Benzo(a)anthracene      | 21.49 | 228  | 729083m  | 13.670 | ng/ul  |          |
| 19) Chrysene                | 21.54 | 228  | 1490619  | 31.107 | ng/ul  | 95       |
| 21) Benzo(b)fluoranthene    | 23.29 | 252  | 1559528m | 32.285 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.34 | 252  | 431247m  | 8.340  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.96 | 252  | 676923m  | 14.273 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.81 | 276  | 555220m  | 10.313 | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.82 | 278  | 173252m  | 3.894  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 27.65 | 276  | 587759m  | 12.529 | ng/ul  |          |

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

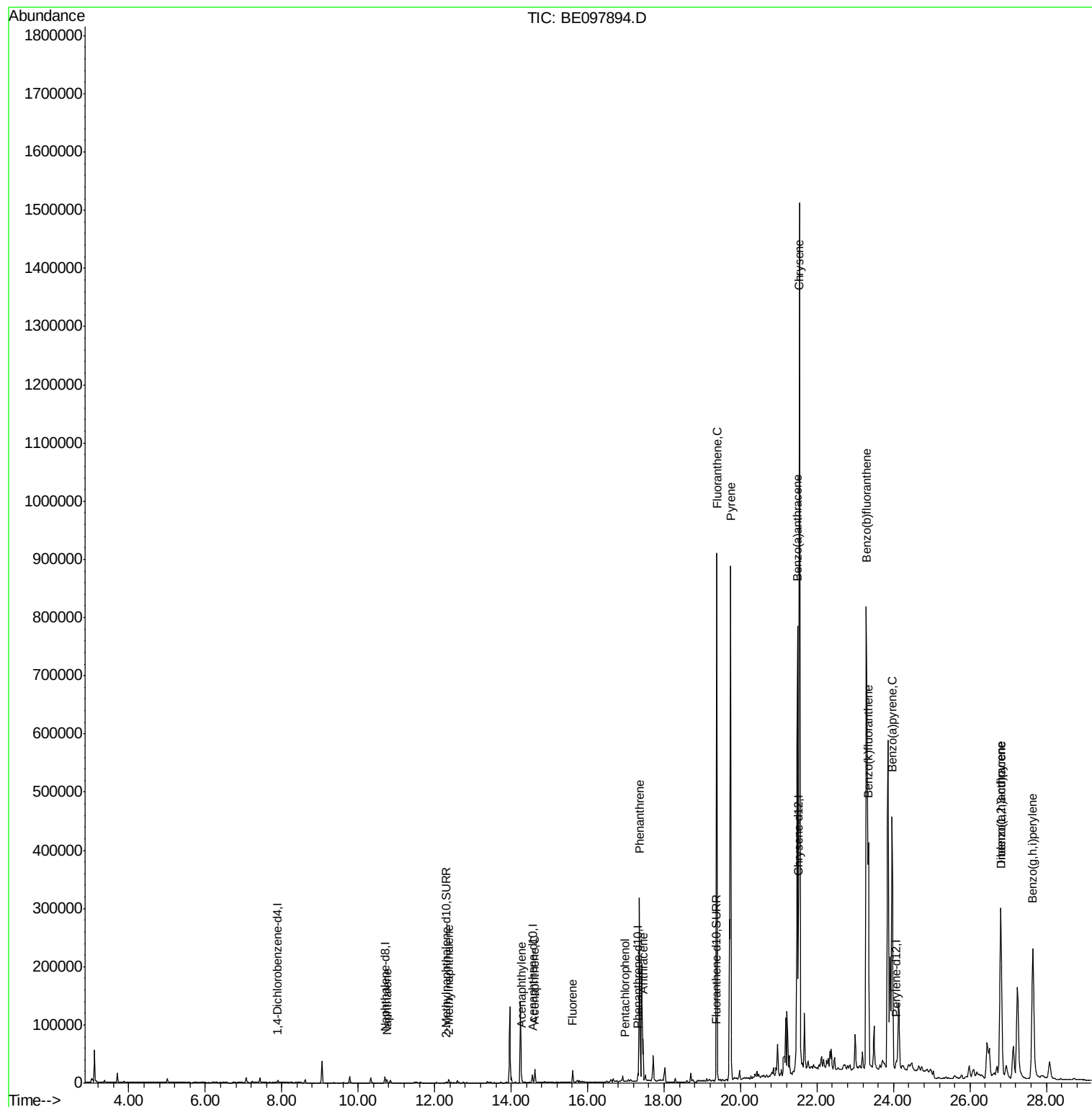
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE101218\  
Data File : BE097894.D  
Acq On : 13 Oct 2018 00:21  
Operator : SJ/JU  
Sample : J5183-04DL 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

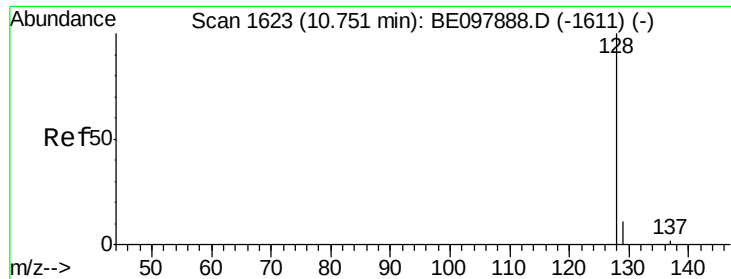
Instrument :  
BNA\_E  
ClientSampled :  
JLC19DL

Manual Integrations  
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10/15/2018 3:56:03 PM

Quant Time: Oct 13 04:22:16 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE101118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Oct 13 02:57:21 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.321 ng/ul

RT: 10.75 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

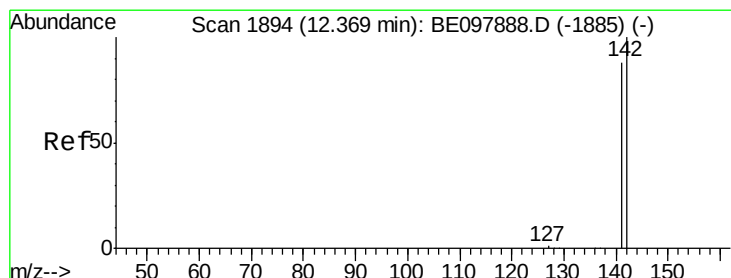
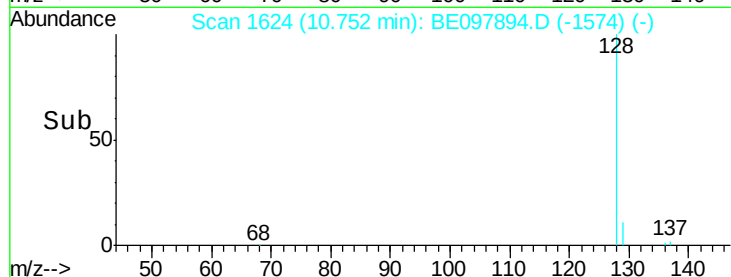
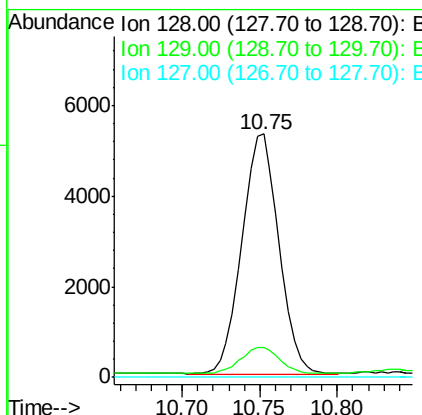
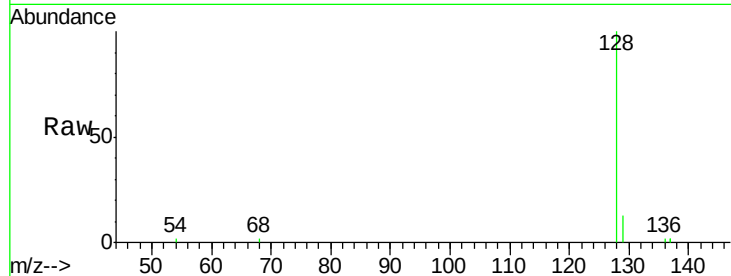
ClientSampleId :

JLC19DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 8753 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 12.5  | 9.1   | 13.7 |
| 127       | 0.0   | 0.0   | 0.0  |

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#5

2-Methylnaphthalene

Concen: 0.228 ng/ul

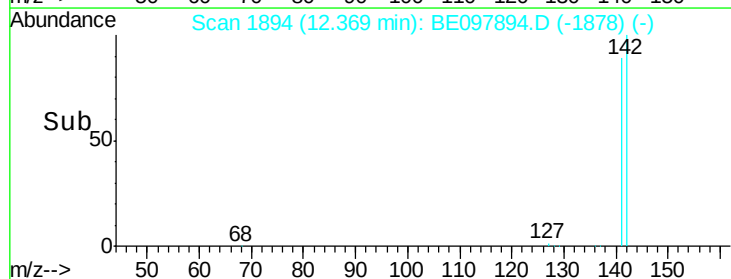
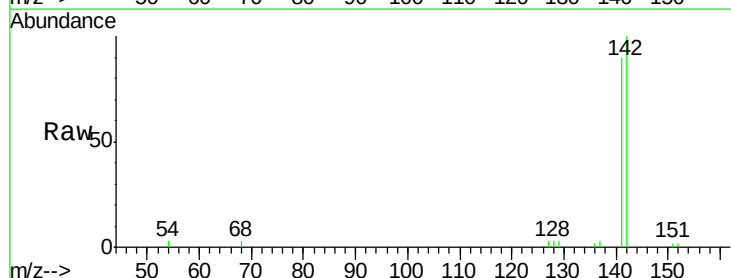
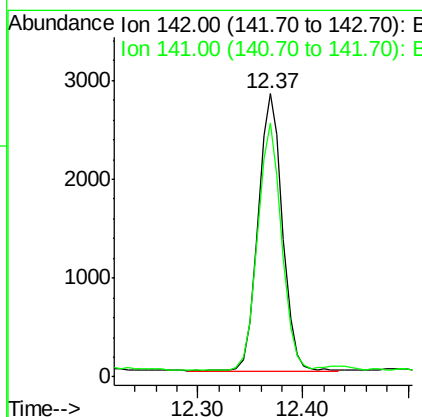
RT: 12.37 min Scan# 1894

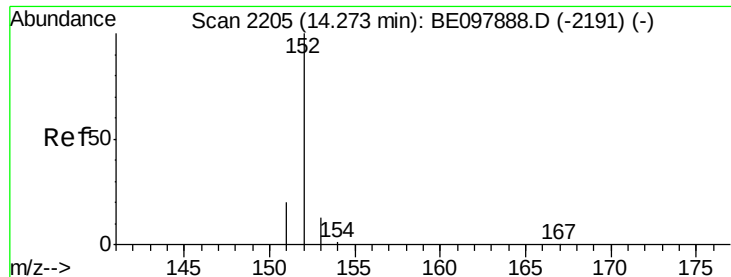
Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 4513  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 87.6  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.146 ng/ul

RT: 14.27 min Scan# 2205

Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

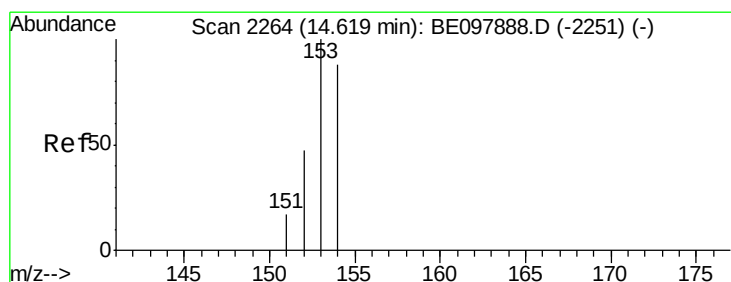
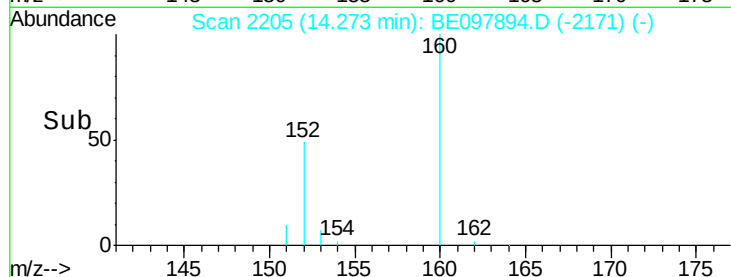
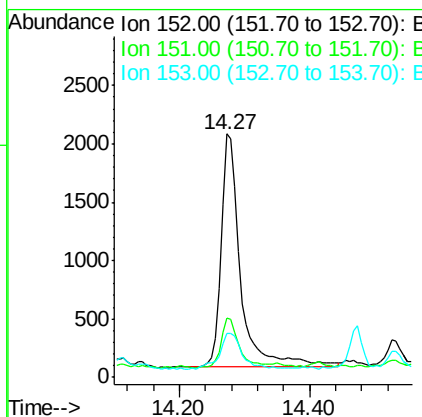
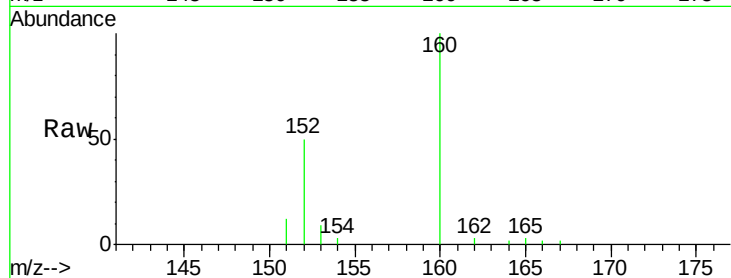
ClientSampleId :

JLC19DL

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 152  | Resp: | 4176  |
| Ion Ratio |      | Lower | Upper |
| 152       | 100  |       |       |
| 151       | 24.5 | 15.0  | 22.6# |
| 153       | 18.0 | 10.5  | 15.7# |

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#8

Acenaphthene

Concen: 0.618 ng/ul

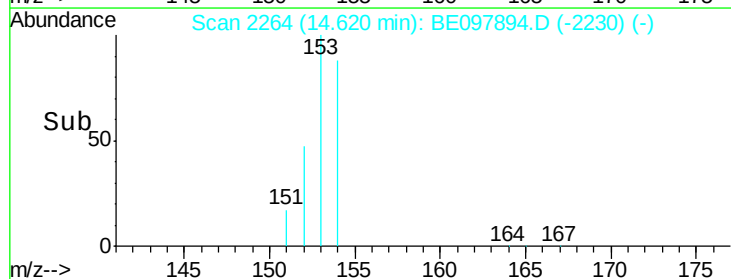
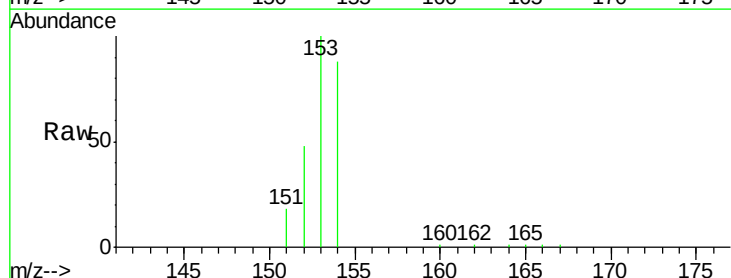
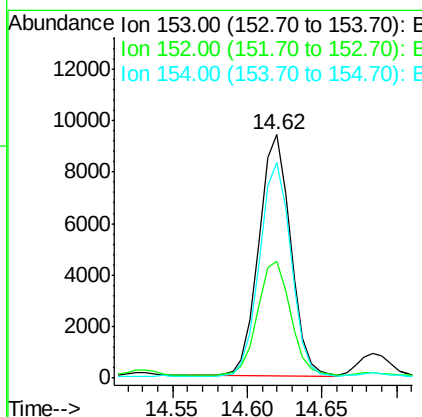
RT: 14.62 min Scan# 2264

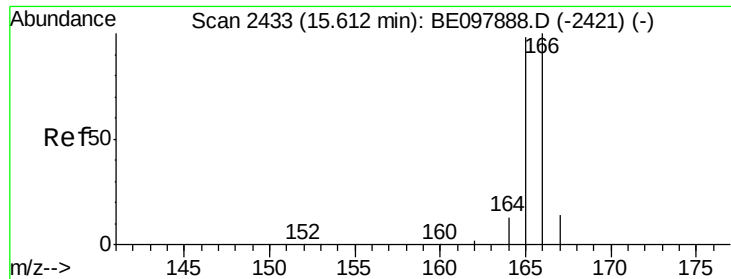
Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 153  | Resp: | 13723 |
| Ion Ratio |      | Lower | Upper |
| 153       | 100  |       |       |
| 152       | 48.2 | 41.2  | 61.8  |
| 154       | 88.4 | 68.6  | 103.0 |





#9

Fluorene

Concen: 0.438 ng/ul

RT: 15.61 min Scan# 2433

Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

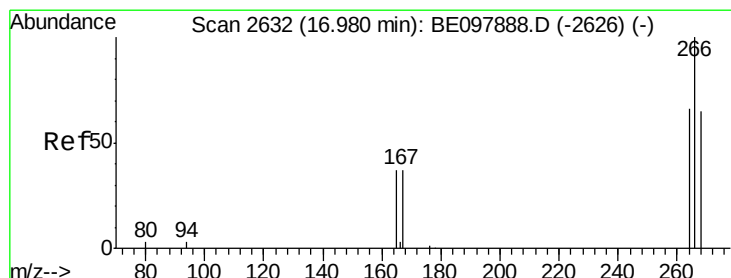
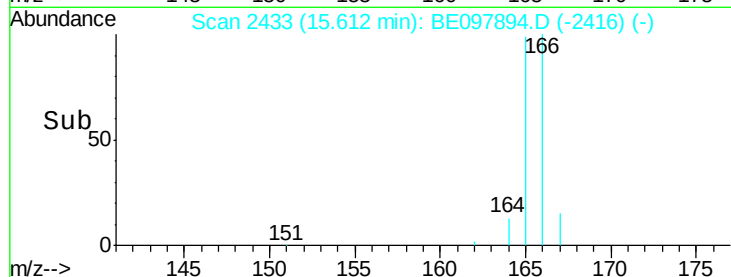
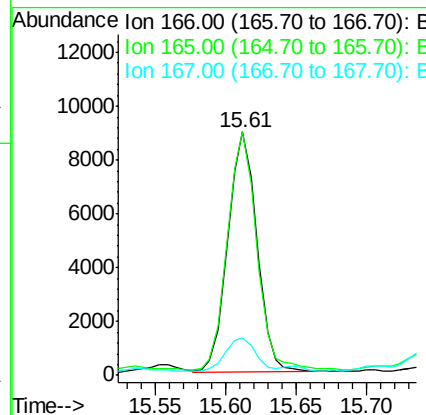
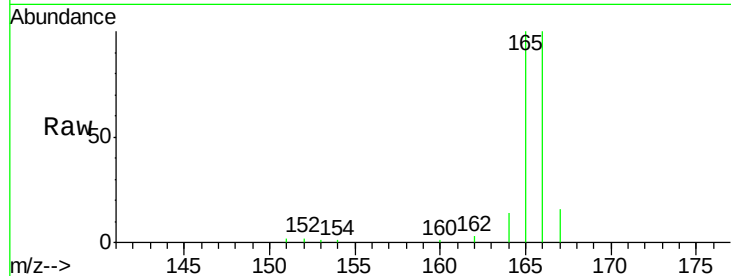
ClientSampleId :

JLC19DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 12700 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.9  | 79.2  | 118.8 |
| 167       | 15.6  | 11.3  | 16.9  |

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#11

Pentachlorophenol

Concen: 0.214 ng/ul m

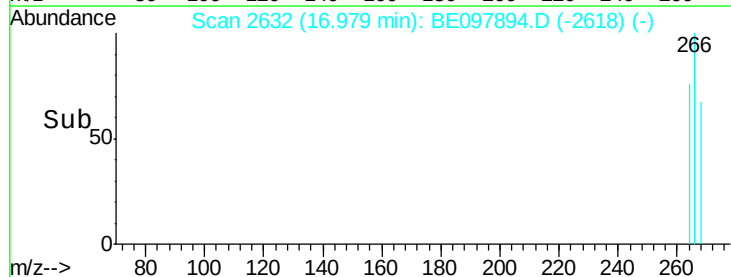
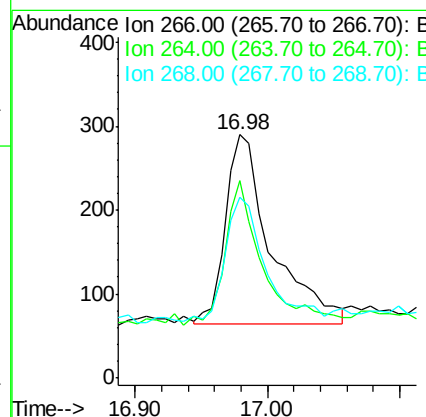
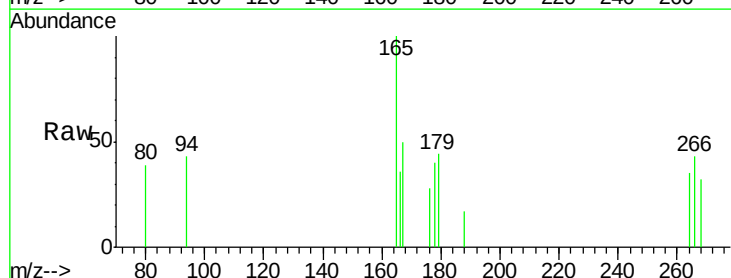
RT: 16.98 min Scan# 2632

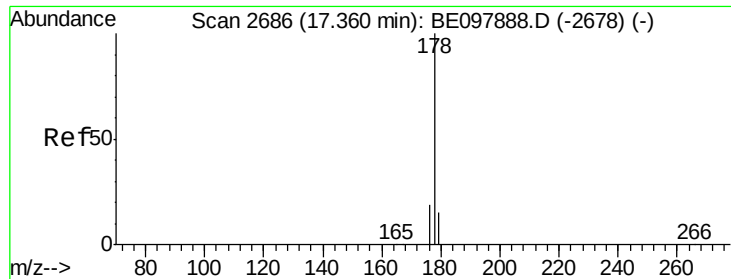
Delta R.T. -0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 548   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 0.0   | 49.8  | 74.8# |
| 268       | 4.2   | 48.4  | 72.6# |





#12

Phenanthrene

Concen: 7.992 ng/ul m

RT: 17.36 min Scan# 2686

Delta R.T. -0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

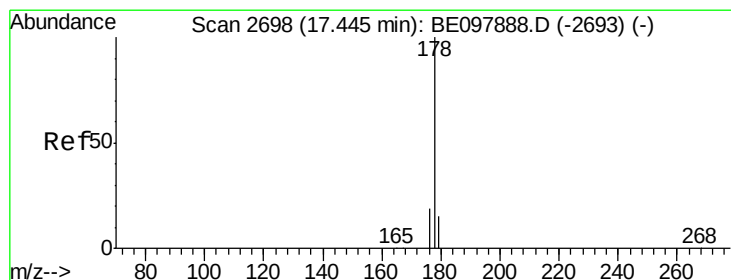
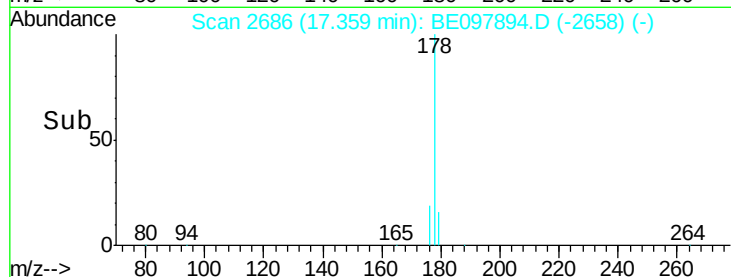
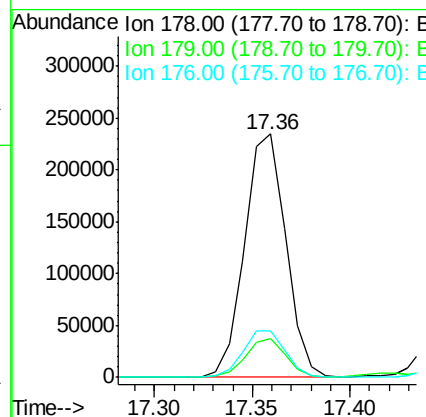
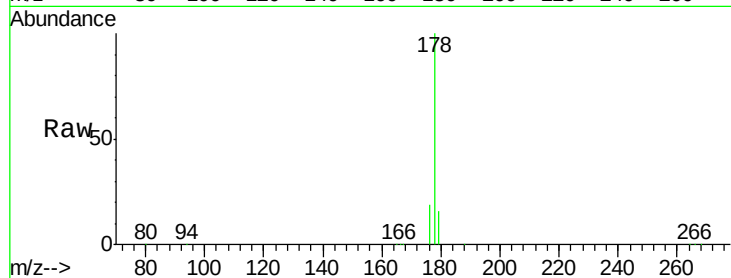
ClientSampleId :

JLC19DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 343309 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.8  | 19.2   |
| 176       | 19.0  | 14.9  | 22.3   |

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#13

Anthracene

Concen: 1.963 ng/ul m

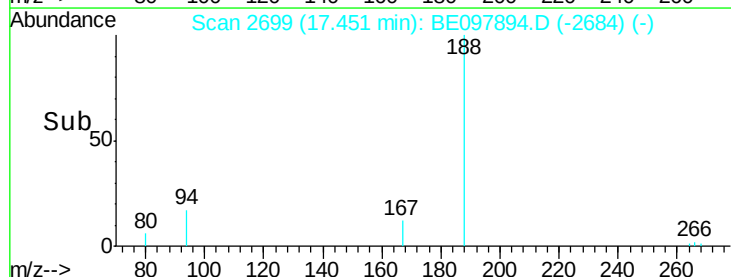
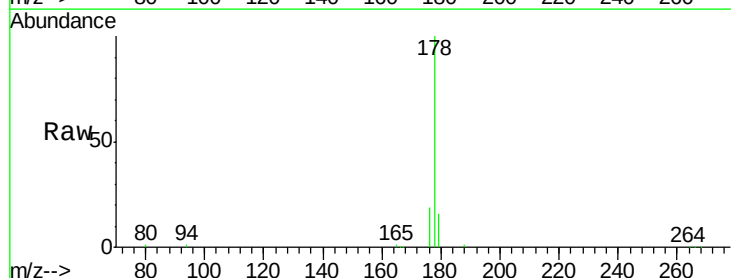
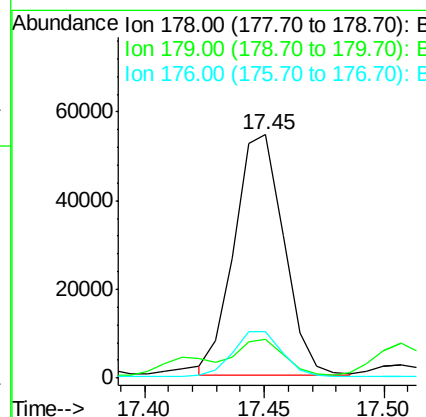
RT: 17.45 min Scan# 2699

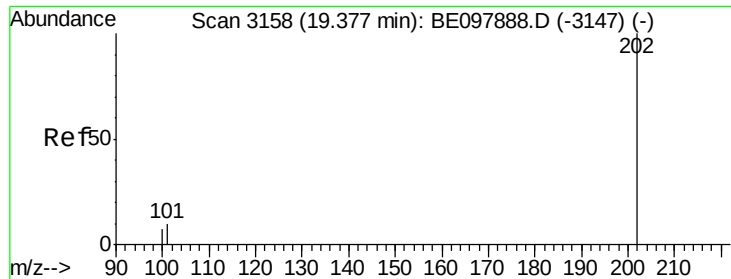
Delta R.T. 0.01 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 78129 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.9  | 12.9  | 19.3  |
| 176       | 18.9  | 15.5  | 23.3  |





#15

Fluoranthene

Concen: 17.934 ng/ul m

RT: 19.38 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

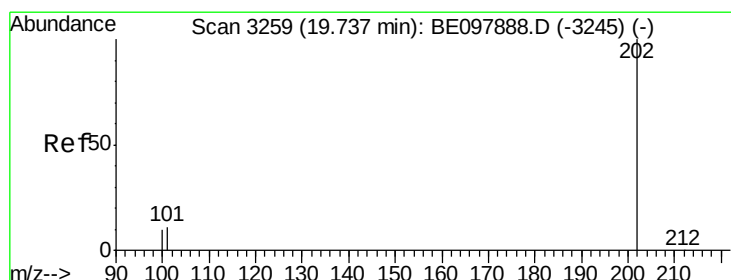
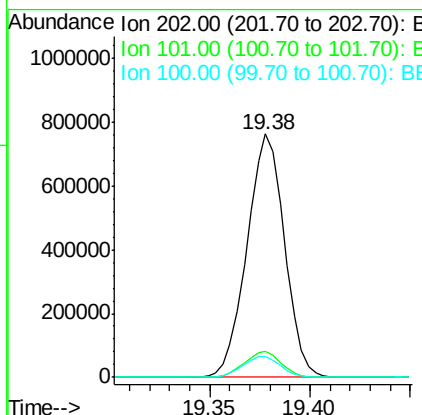
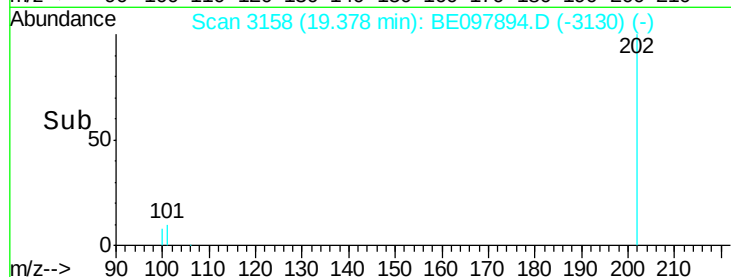
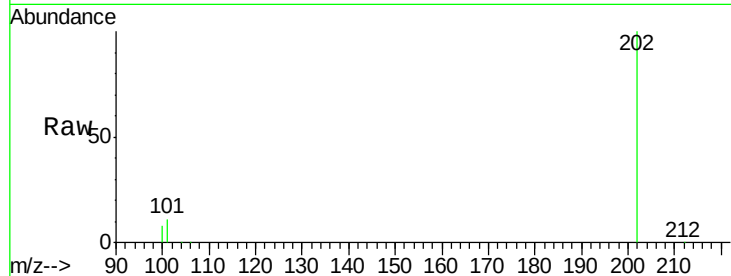
ClientSampleId :

JLC19DL

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 202   | Resp  | 989329 |
| Ion | Ratio | Lower | Upper |        |
| 202 | 100   |       |       |        |
| 101 | 10.5  | 0.0   | 29.3  |        |
| 100 | 8.5   | 0.0   | 27.5  |        |

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#17

Pyrene

Concen: 19.293 ng/ul m

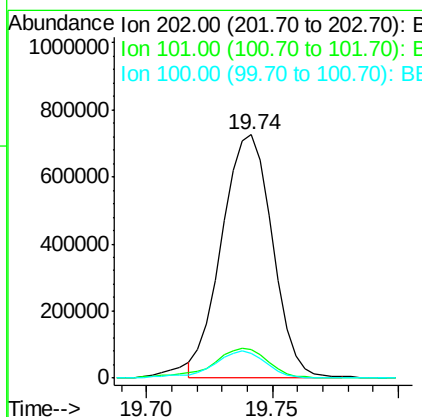
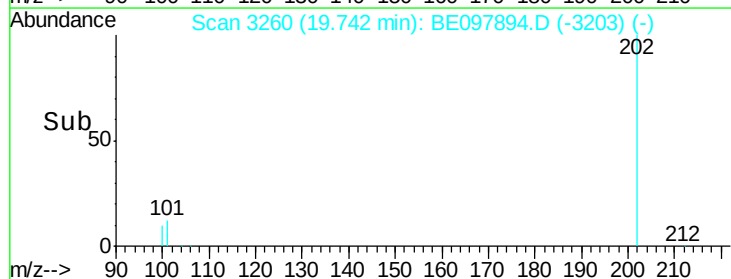
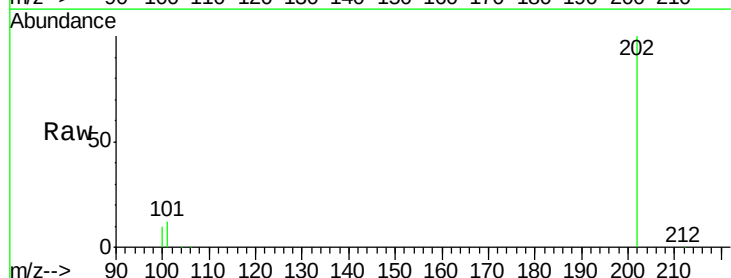
RT: 19.74 min Scan# 3260

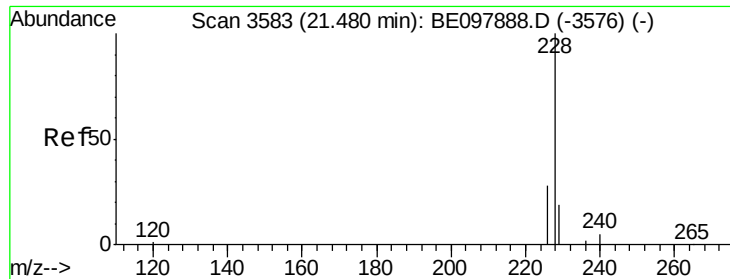
Delta R.T. 0.00 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

|     |       |       |       |         |
|-----|-------|-------|-------|---------|
| Tgt | Ion   | 202   | Resp  | 1013788 |
| Ion | Ratio | Lower | Upper |         |
| 202 | 100   |       |       |         |
| 101 | 11.8  | 8.8   | 13.2  |         |
| 100 | 10.2  | 7.9   | 11.9  |         |





#18

Benzo(a)anthracene

Concen: 13.670 ng/ul m

RT: 21.49 min Scan# 3583

Delta R.T. 0.01 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

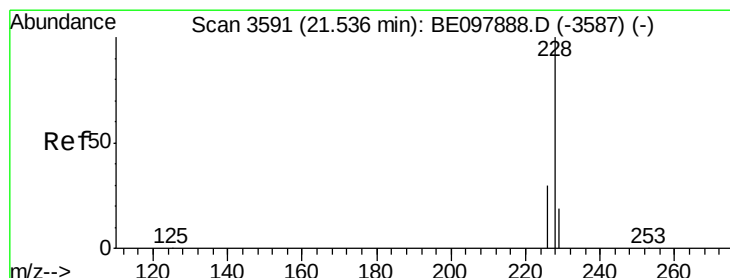
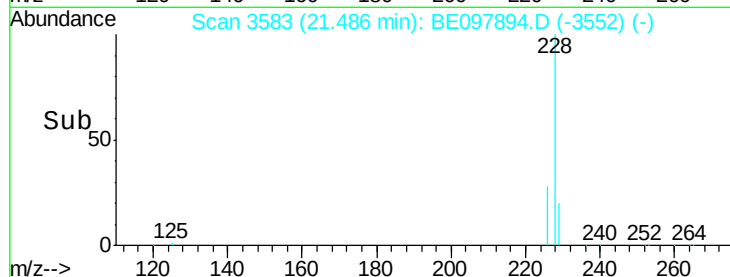
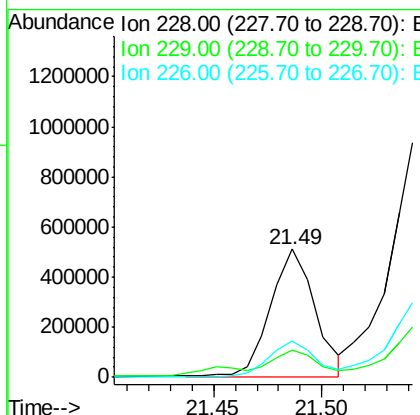
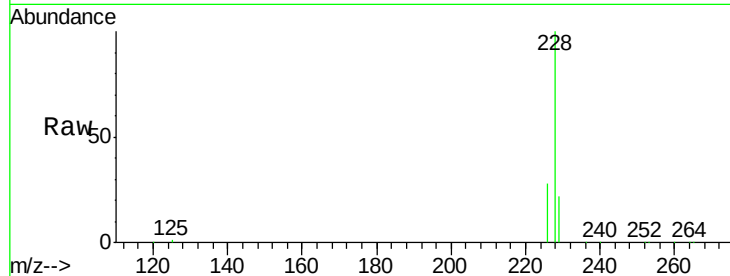
ClientSampled :

JLC19DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 729083 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.6  | 16.4  | 24.6   |
| 226       | 28.5  | 21.5  | 32.3   |

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#19

Chrysene

Concen: 31.107 ng/ul

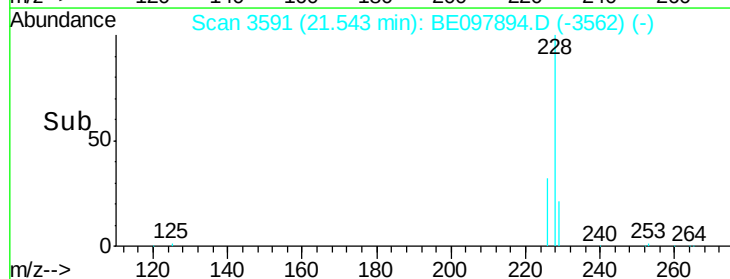
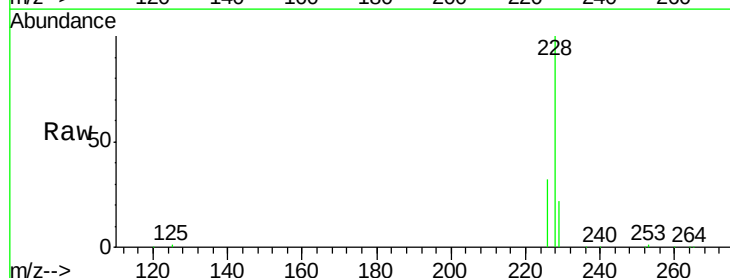
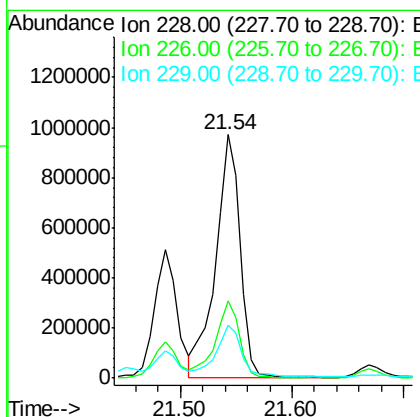
RT: 21.54 min Scan# 3591

Delta R.T. 0.01 min

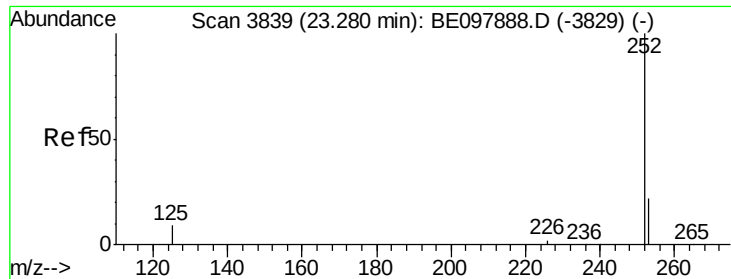
Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 228   | Resp: | 1490619 |
| Ion Ratio | Lower | Upper |         |
| 228       | 100   |       |         |
| 226       | 31.6  | 23.0  | 34.4    |
| 229       | 21.7  | 15.5  | 23.3    |







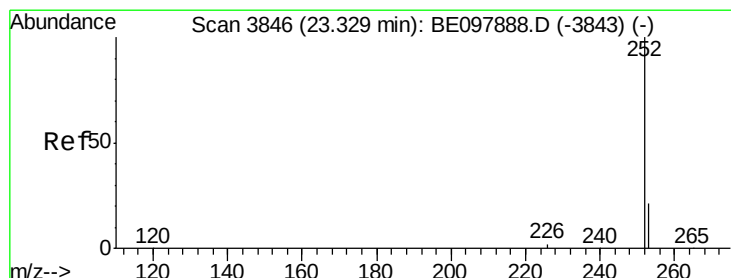
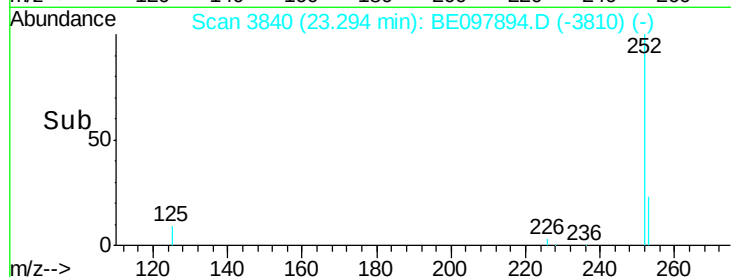
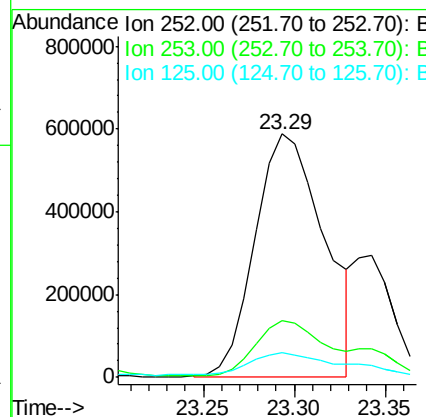
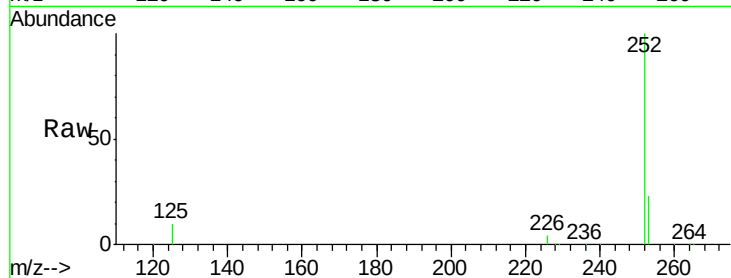
#21  
Benzo(b)fluoranthene  
Concen: 32.285 ng/ul m  
RT: 23.29 min Scan# 3840  
Delta R.T. 0.01 min  
Lab File: BE097894.D  
Acq: 13 Oct 2018 00:21

Instrument :  
BNA\_E  
ClientSampleId :  
JLC19DL

Tgt Ion:252 Resp: 1559528  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 47.0  
125 10.1 0.0 18.2

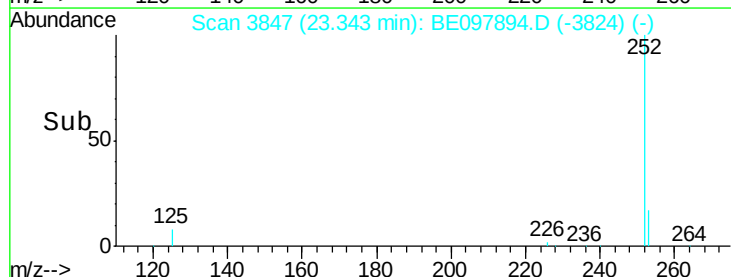
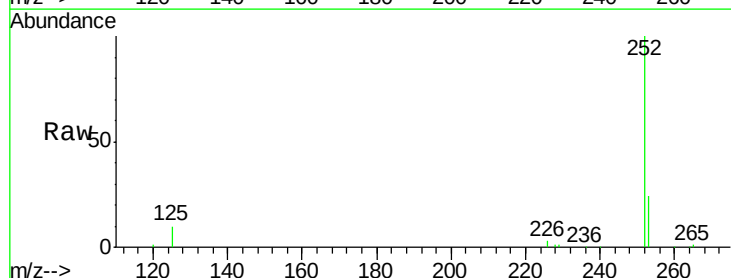
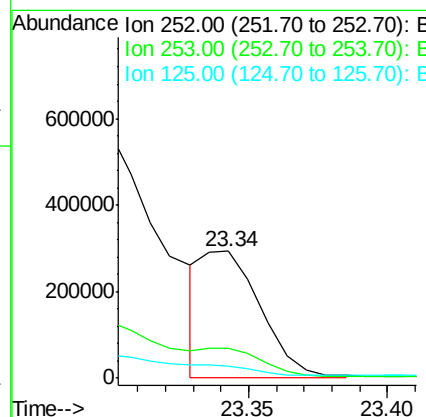
Manual Integrations  
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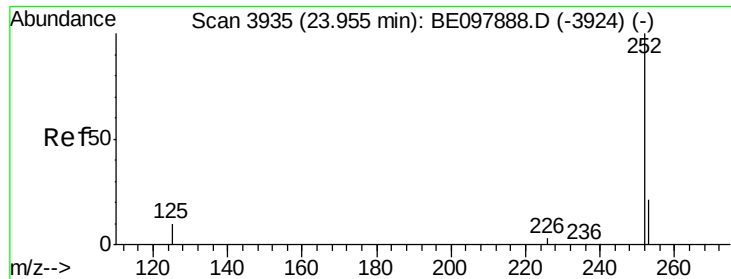
Sohil  
10/15/2018 3:56:03 PM



#22  
Benzo(k)fluoranthene  
Concen: 8.340 ng/ul m  
RT: 23.34 min Scan# 3847  
Delta R.T. 0.01 min  
Lab File: BE097894.D  
Acq: 13 Oct 2018 00:21

Tgt Ion:252 Resp: 431247  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.6  
125 9.8 9.4 14.0





#23

Benzo(a)pyrene

Concen: 14.273 ng/ul m

RT: 23.96 min Scan# 3935

Delta R.T. 0.01 min

Lab File: BE097894.D

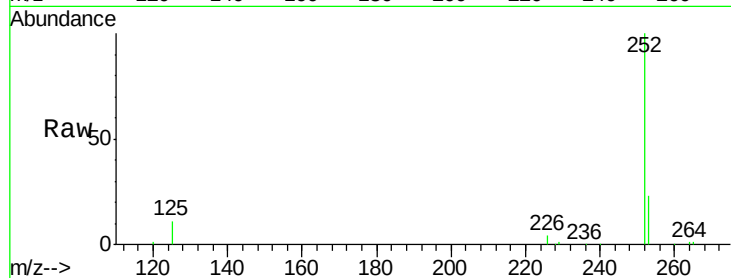
Acq: 13 Oct 2018 00:21

Instrument :

BNA\_E

ClientSampleId :

JLC19DL



Tgt Ion: 252 Resp: 676923

Ion Ratio Lower Upper

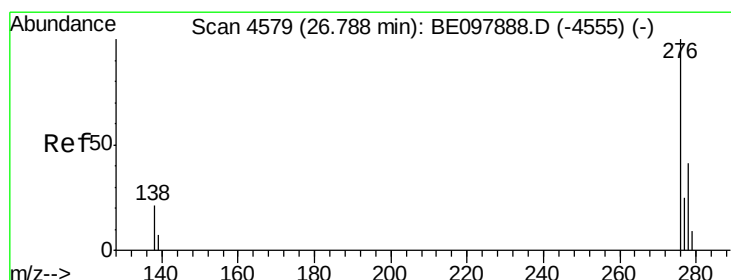
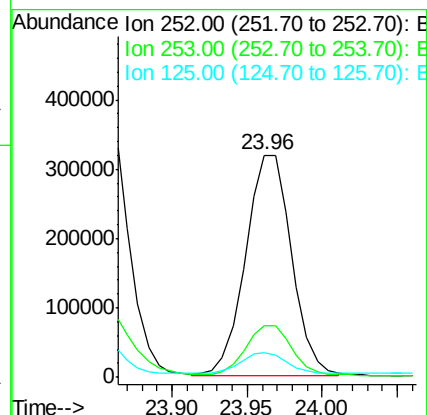
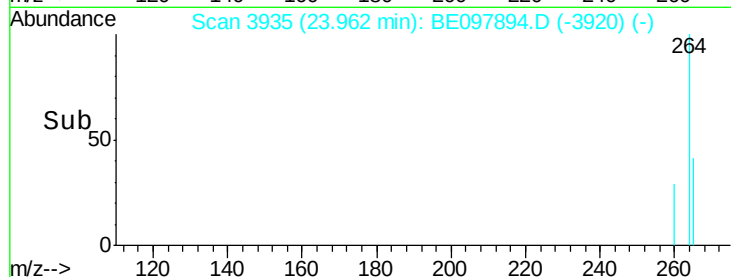
252 100

253 23.4 18.2 27.4

125 11.0 8.3 12.5

Manual Integrations  
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10/15/2018 3:56:03 PM



#24

Indeno(1,2,3-cd)pyrene

Concen: 10.313 ng/ul m

RT: 26.81 min Scan# 4583

Delta R.T. 0.02 min

Lab File: BE097894.D

Acq: 13 Oct 2018 00:21

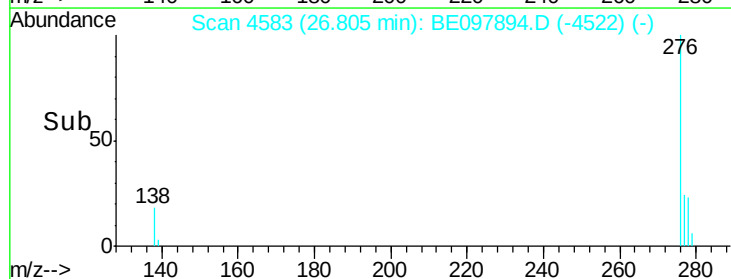
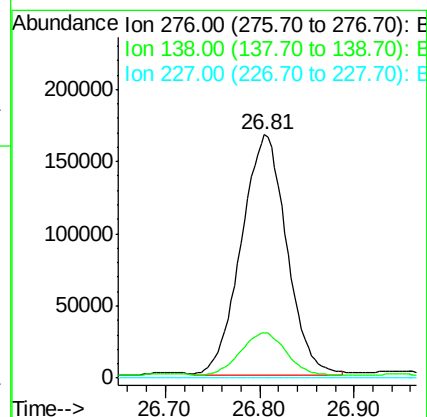
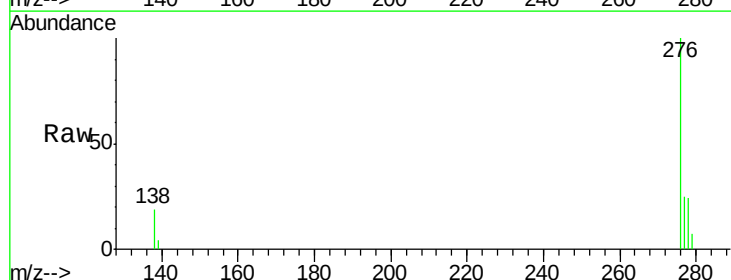
Tgt Ion: 276 Resp: 555220

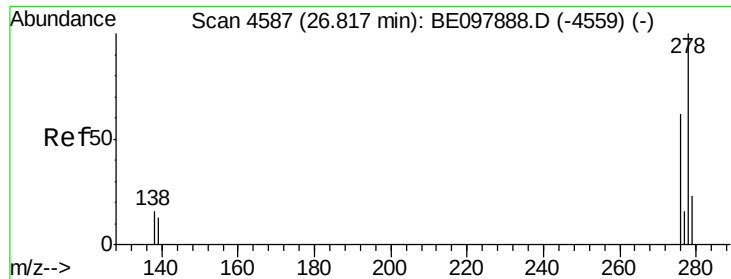
Ion Ratio Lower Upper

276 100

138 16.9 0.0 0.0#

227 0.0 0.0 0.0





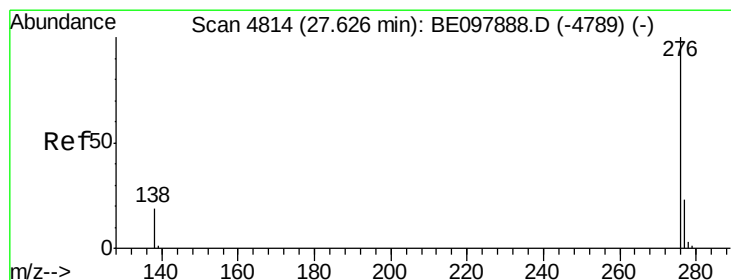
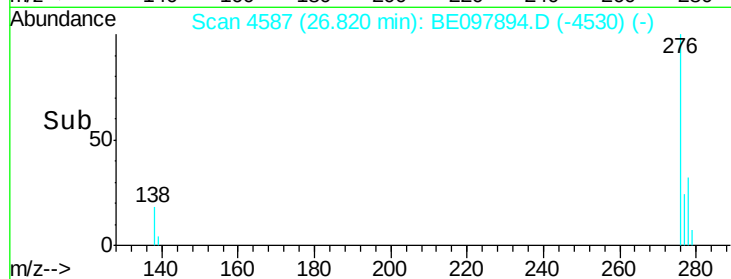
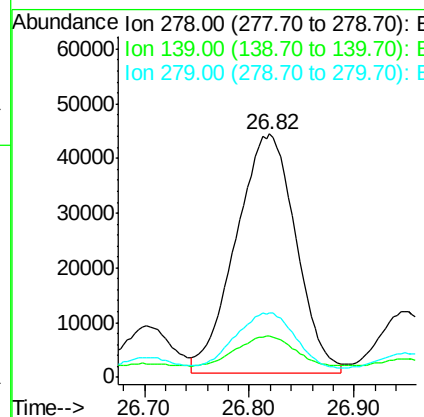
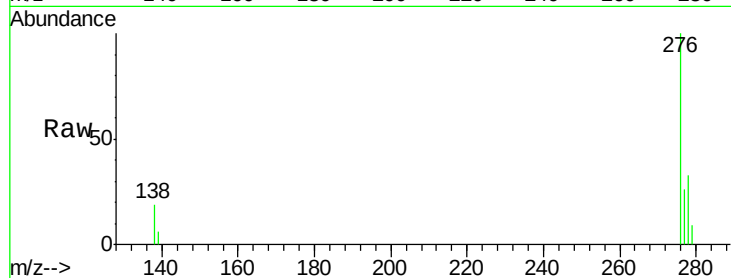
#25  
Dibenzo(a,h)anthracene  
Concen: 3.894 ng/ul m  
RT: 26.82 min Scan# 4587  
Delta R.T. 0.00 min  
Lab File: BE097894.D  
Acq: 13 Oct 2018 00:21

Instrument :  
BNA\_E  
ClientSampled :  
JLC19DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.8  | 10.9  | 16.3# |
| 279     | 26.3  | 18.8  | 28.2  |

Manual Integrations  
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#26  
Benzo(g,h,i)perylene  
Concen: 12.529 ng/ul m  
RT: 27.65 min Scan# 4819  
Delta R.T. 0.02 min  
Lab File: BE097894.D  
Acq: 13 Oct 2018 00:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.7  | 14.3  | 21.5  |
| 277     | 24.3  | 19.5  | 29.3  |

