

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080318\  
 Data File : BE097186.D  
 Acq On : 3 Aug 2018 19:17  
 Operator : SJ/JU  
 Sample : J4171-20  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 JJ1L3

Manual Integrations  
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Sohil  
 8/6/2018 4:32:28 PM

Quant Time: Aug 04 00:08:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE080118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 03 23:39:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 1524     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.13 | 136  | 7842     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.02 | 164  | 5237     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.77 | 188  | 11818m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.98 | 240  | 12339m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.22 | 264  | 12336m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.73 | 152  | 4723     | 0.37   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.81 | 212  | 13530m   | 0.33   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.18 | 128  | 1099     | 0.058  | ng/ul# | 89       |
| 5) 2-Methylnaphthalene      | 11.80 | 142  | 503      | 0.040  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.74 | 152  | 972      | 0.043  | ng/ul# | 72       |
| 8) Acenaphthene             | 14.08 | 153  | 2527     | 0.154  | ng/ul  | 96       |
| 9) Fluorene                 | 15.08 | 166  | 3149     | 0.167  | ng/ul  | 91       |
| 12) Phenanthrene            | 16.81 | 178  | 143746m  | 4.771  | ng/ul  |          |
| 13) Anthracene              | 16.90 | 178  | 24646m   | 0.877  | ng/ul  |          |
| 15) Fluoranthene            | 18.84 | 202  | 386551m  | 9.707  | ng/ul  |          |
| 17) Pyrene                  | 19.21 | 202  | 411281   | 12.439 | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 176772m  | 5.014  | ng/ul  |          |
| 19) Chrysene                | 21.02 | 228  | 198163   | 5.454  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.54 | 252  | 246705m  | 7.338  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 91830m   | 2.533  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.12 | 252  | 194472m  | 5.780  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 143779m  | 3.415  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.52 | 278  | 32913m   | 0.955  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 26.22 | 276  | 135717m  | 3.730  | ng/ul  |          |

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

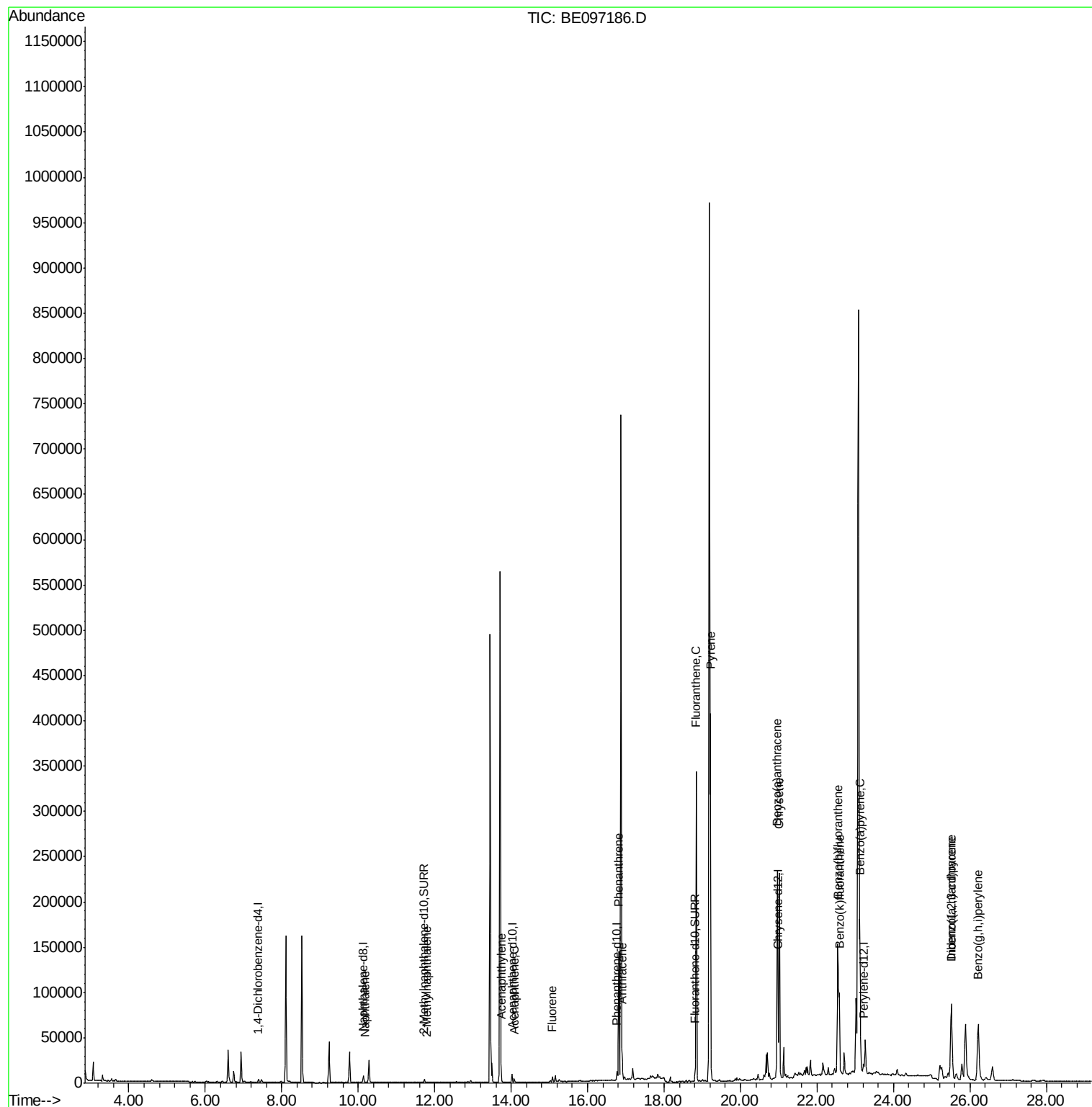
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080318\  
Data File : BE097186.D  
Acq On : 3 Aug 2018 19:17  
Operator : SJ/JU  
Sample : J4171-20  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

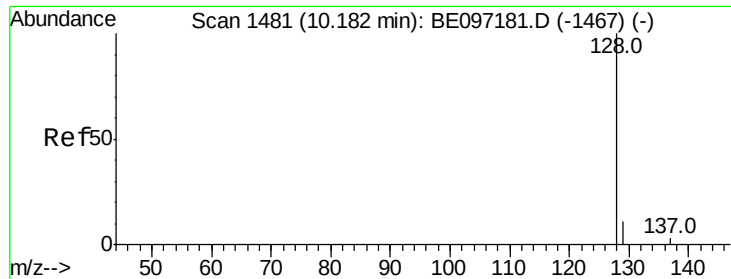
Instrument :  
BNA\_E  
ClientSampleId :  
JJ1L3

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Quant Time: Aug 04 00:08:56 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE080118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 03 23:39:09 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.058 ng/ul

RT: 10.18 min Scan# 1481

Delta R.T. -0.00 min

Lab File: BE097186.D

Acq: 3 Aug 2018 19:17

Instrument :

BNA\_E

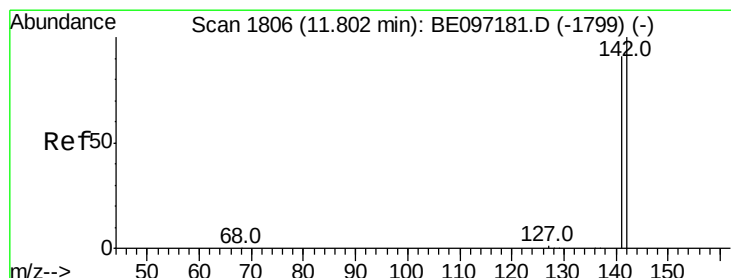
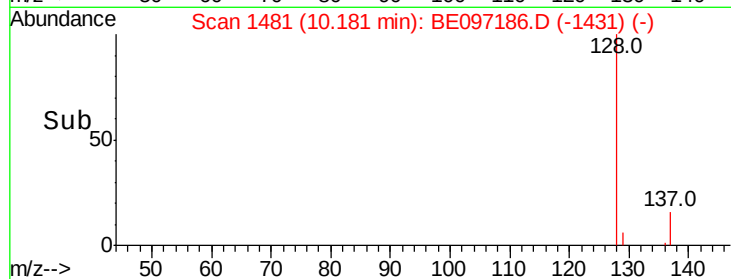
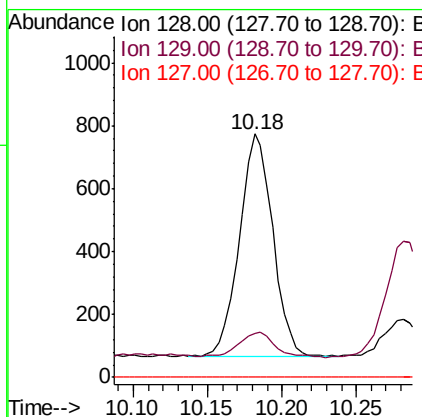
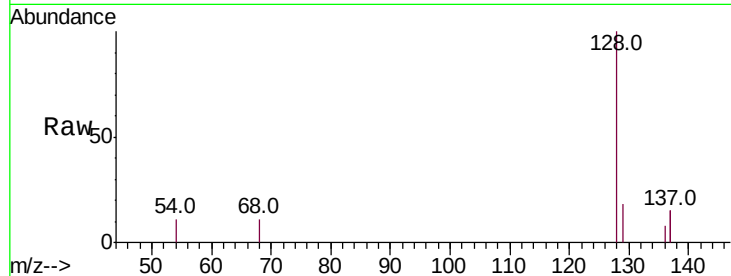
ClientSampled :

JJ1L3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1099  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 18.0  | 11.3  | 16.9# |
| 127       | 0.0   | 4.0   | 6.0#  |

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#5

2-Methylnaphthalene

Concen: 0.040 ng/ul

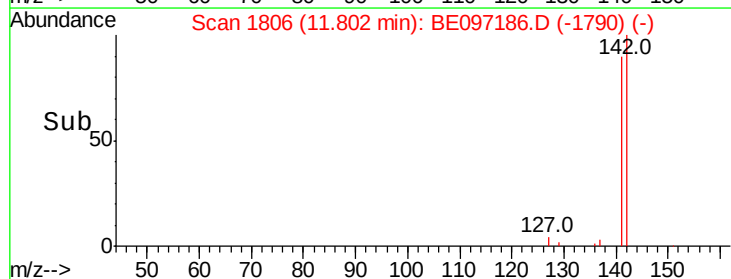
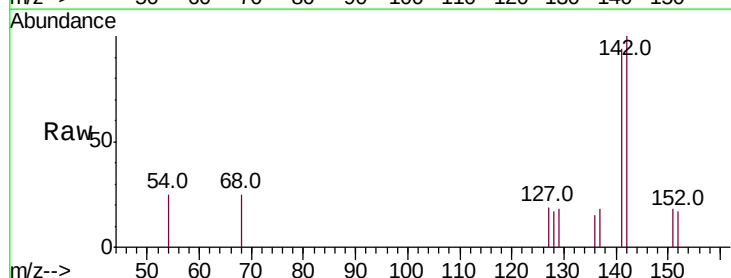
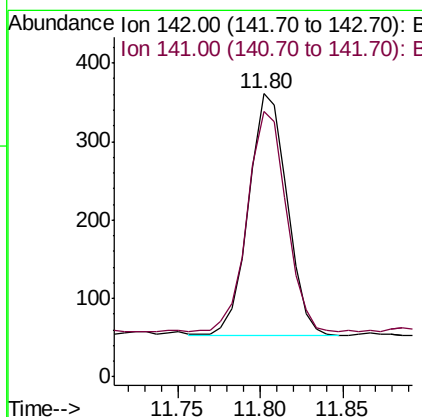
RT: 11.80 min Scan# 1806

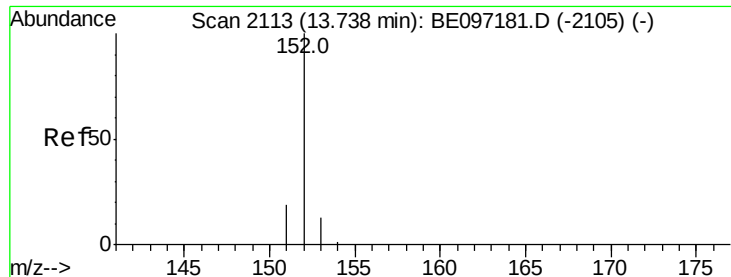
Delta R.T. 0.00 min

Lab File: BE097186.D

Acq: 3 Aug 2018 19:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 503   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 92.0  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.043 ng/ul

RT: 13.74 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE097186.D

Acq: 3 Aug 2018 19:17

Instrument :

BNA\_E

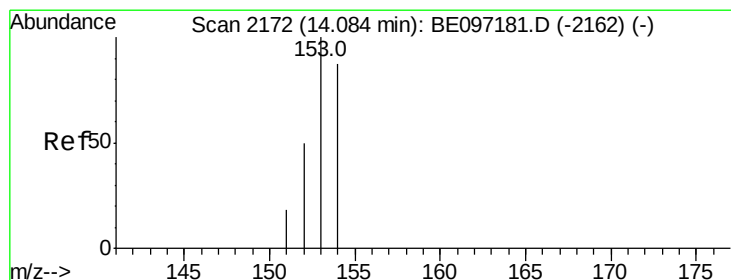
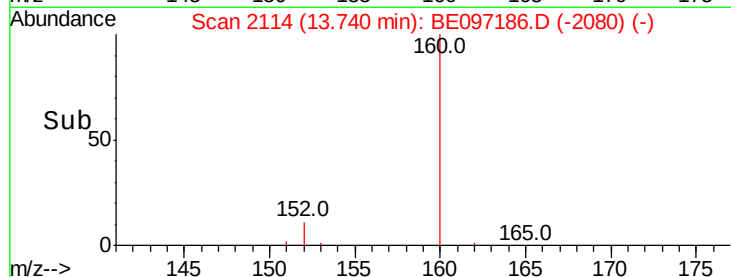
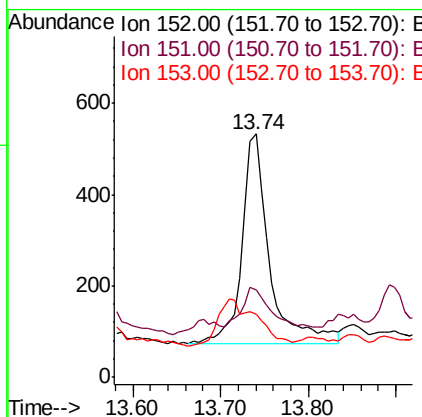
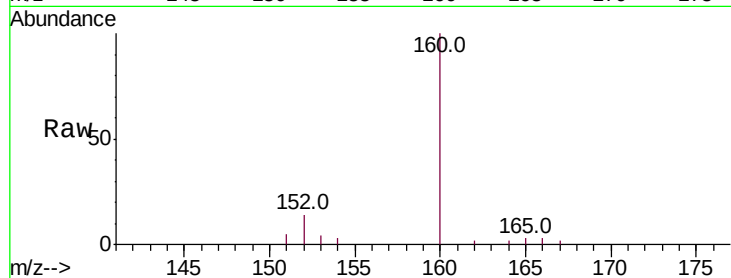
ClientSampleId :

JJ1L3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 972   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 35.8  | 17.1  | 25.7# |
| 153       | 26.1  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.154 ng/ul

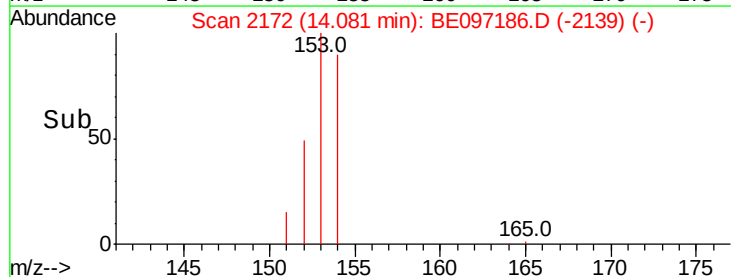
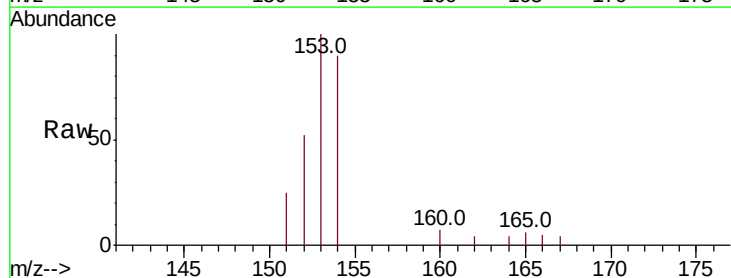
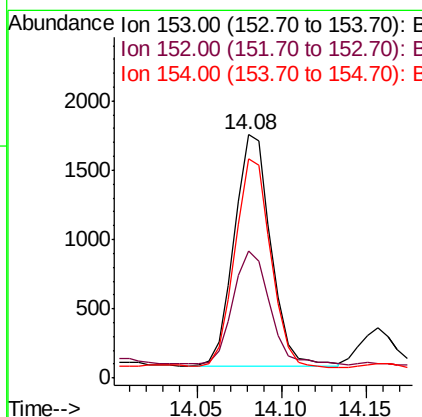
RT: 14.08 min Scan# 2172

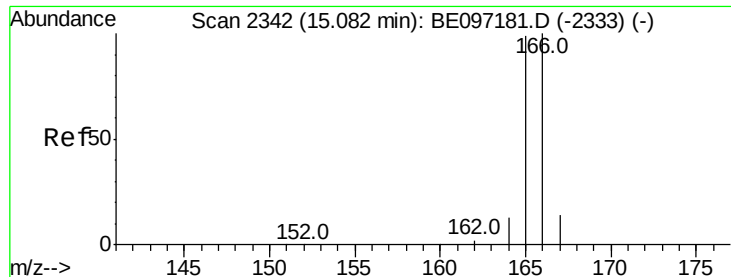
Delta R.T. -0.00 min

Lab File: BE097186.D

Acq: 3 Aug 2018 19:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2527  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.0  | 36.0  | 54.0  |
| 154       | 89.9  | 72.0  | 108.0 |





#9

Fluorene

Concen: 0.167 ng/ul

RT: 15.08 min Scan# 2342

Delta R.T. -0.00 min

Lab File: BE097186.D

Acq: 3 Aug 2018 19:17

Instrument :

BNA\_E

ClientSampleId :

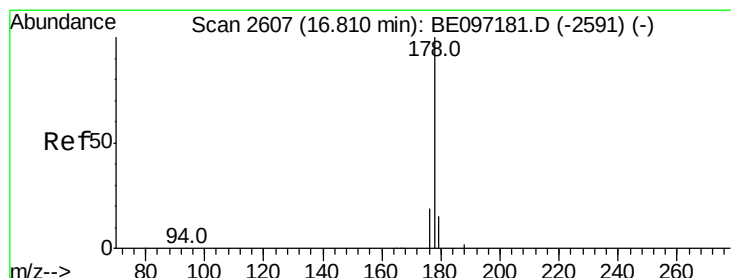
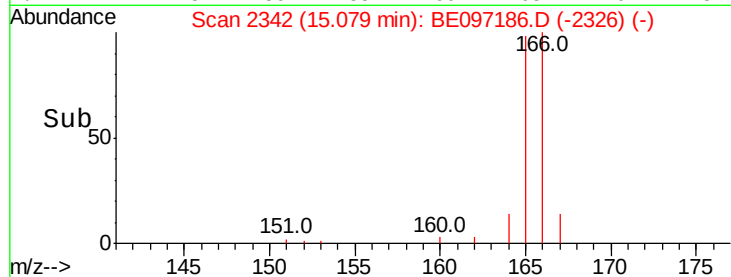
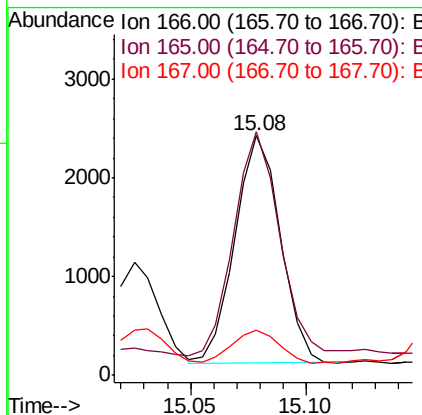
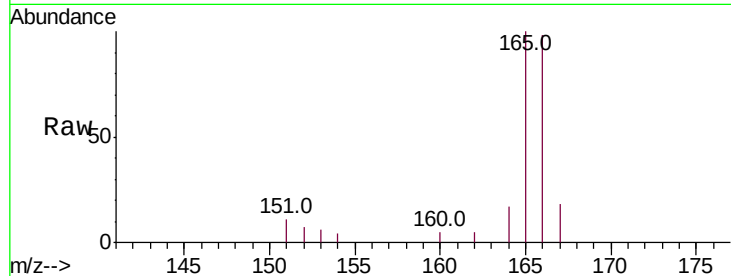
JJ1L3

Tot Ion:166 Resp: 3149

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 101.7 | 73.4  | 110.2 |
| 167 | 18.8  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 4.771 ng/ul m

RT: 16.81 min Scan# 2608

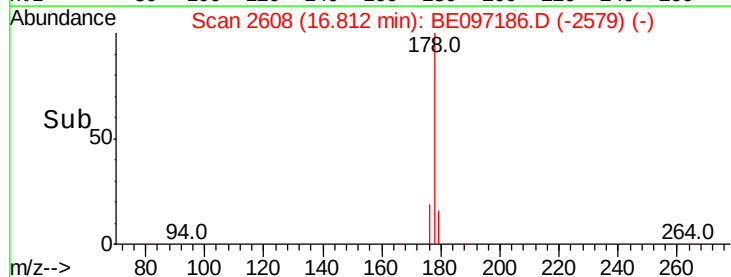
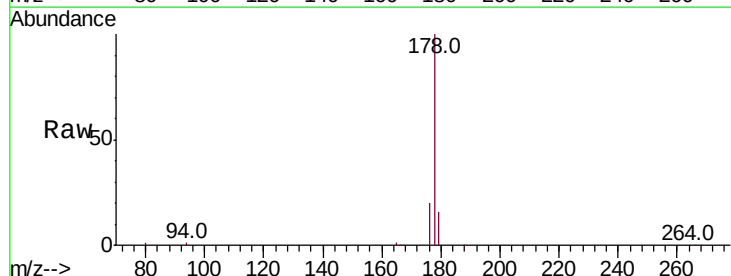
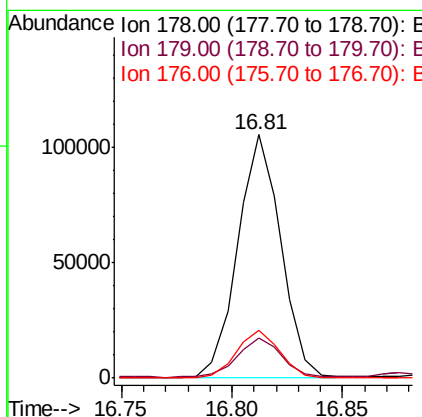
Delta R.T. 0.00 min

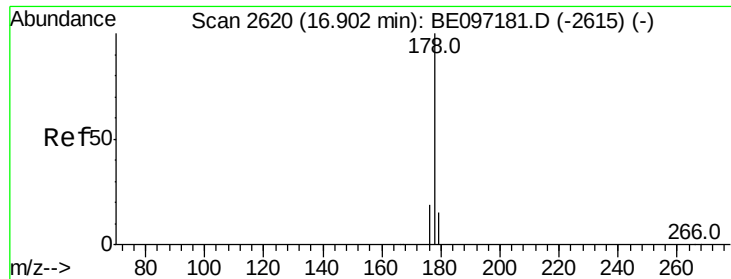
Lab File: BE097186.D

Acq: 3 Aug 2018 19:17

Tgt Ion:178 Resp: 143746

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.3  | 18.4  | 27.6# |
| 176 | 19.5  | 13.6  | 20.4  |





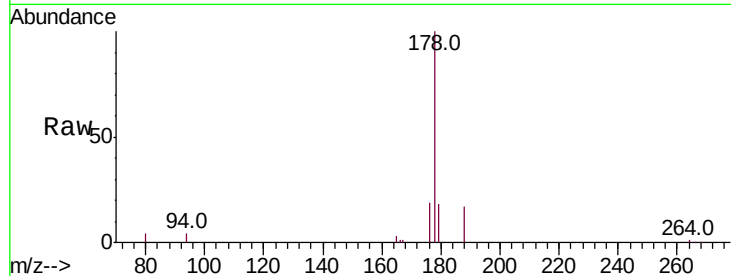
#13  
 Anthracene  
 Concen: 0.877 ng/ul m  
 RT: 16.90 min Scan# 2621  
 Delta R.T. 0.00 min  
 Lab File: BE097186.D  
 Acq: 3 Aug 2018 19:17

Instrument :  
 BNA\_E  
 ClientSampled :  
 JJ1L3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.0  | 18.1  | 27.1# |
| 176     | 19.4  | 14.7  | 22.1  |

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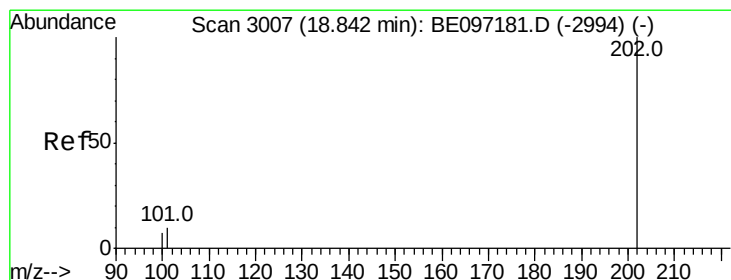
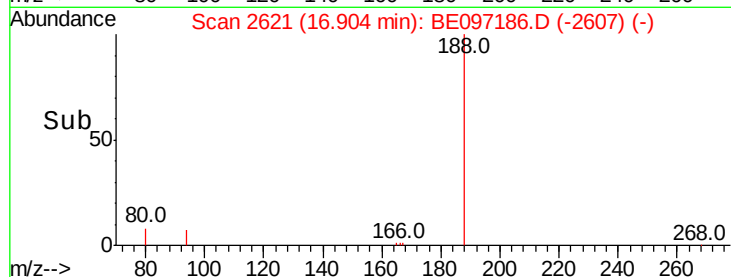
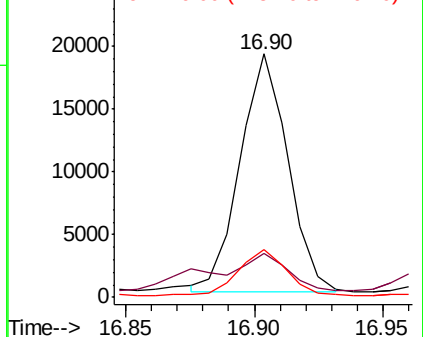


Abundance

Ion 178.00 (177.70 to 178.70): E

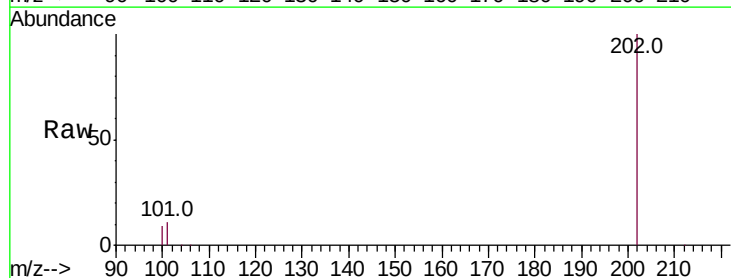
Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15  
 Fluoranthene  
 Concen: 9.707 ng/ul m  
 RT: 18.84 min Scan# 3007  
 Delta R.T. 0.00 min  
 Lab File: BE097186.D  
 Acq: 3 Aug 2018 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.9  | 0.0   | 30.3  |
| 100     | 8.7   | 0.0   | 39.5  |

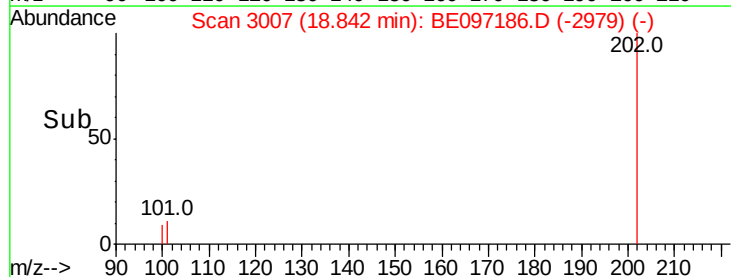
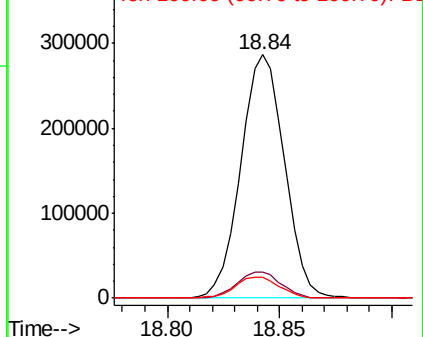


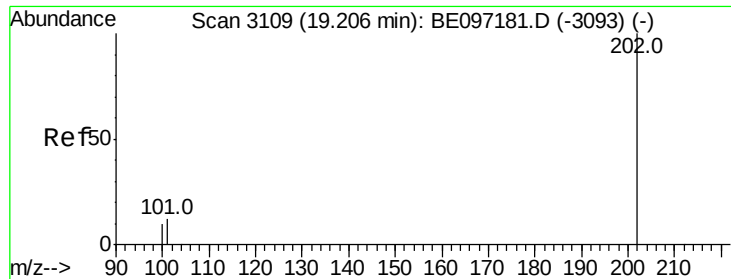
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





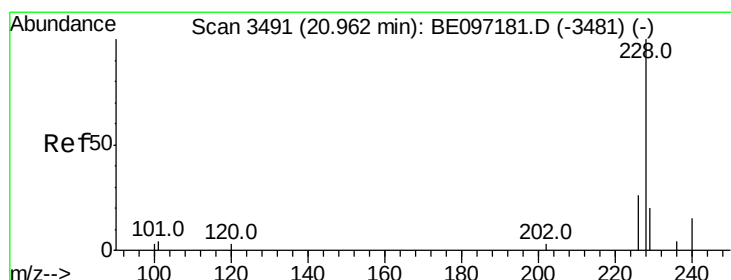
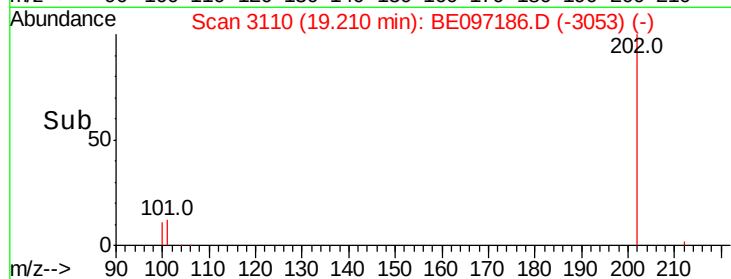
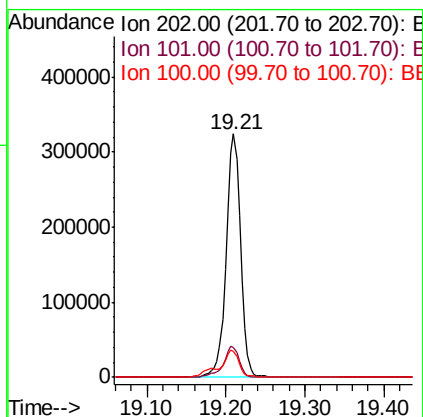
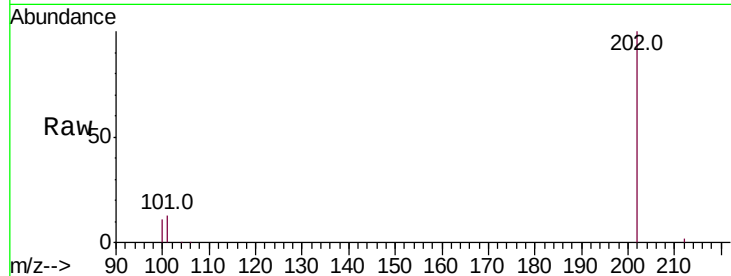
#17  
Pvrene  
Concen: 12.439 ng/ul  
RT: 19.21 min Scan# 3110  
Delta R.T. 0.00 min  
Lab File: BE097186.D  
Acq: 3 Aug 2018 19:17

Instrument :  
BNA\_E  
ClientSampleId :  
JJ1L3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.5  | 18.2  | 27.4# |
| 100     | 10.7  | 15.6  | 23.4# |

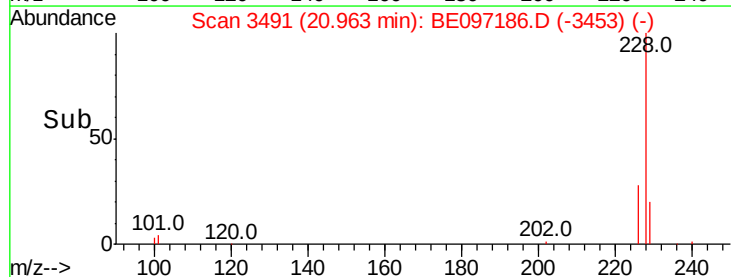
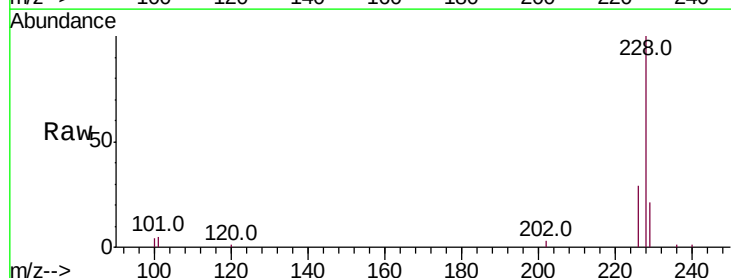
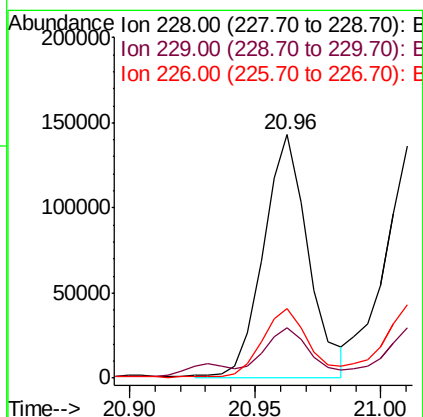
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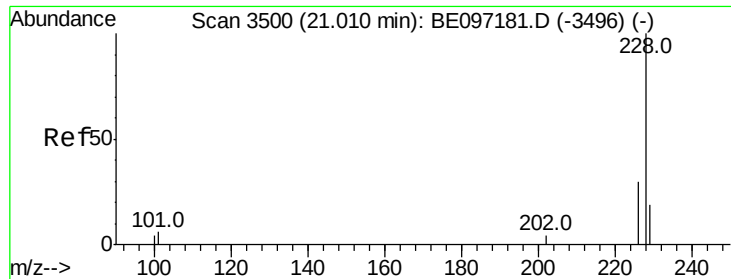
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#18  
Benzo(a)anthracene  
Concen: 5.014 ng/ul m  
RT: 20.96 min Scan# 3491  
Delta R.T. 0.00 min  
Lab File: BE097186.D  
Acq: 3 Aug 2018 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.9  | 22.8  | 34.2# |
| 226     | 28.6  | 17.0  | 25.6# |





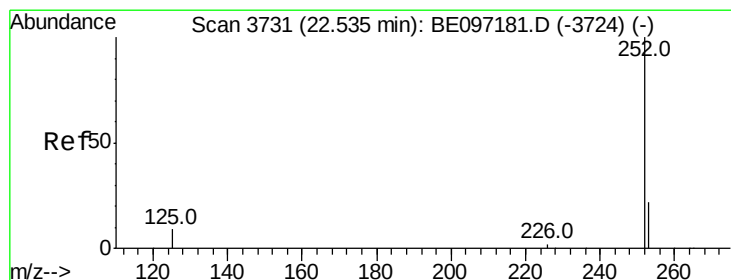
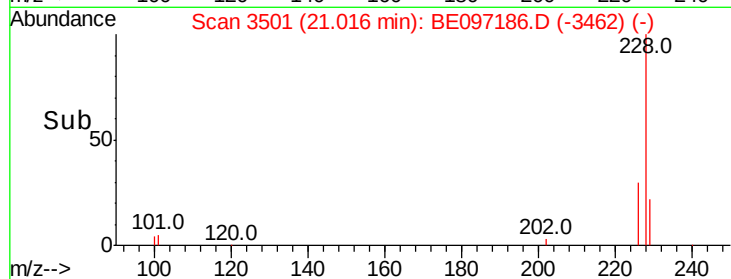
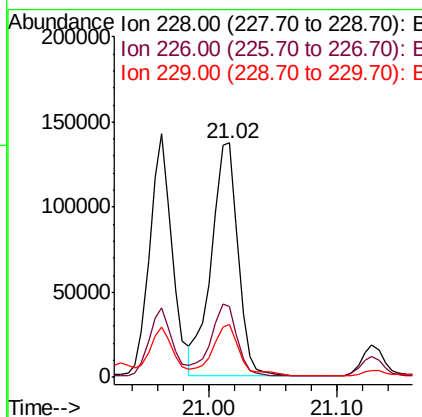
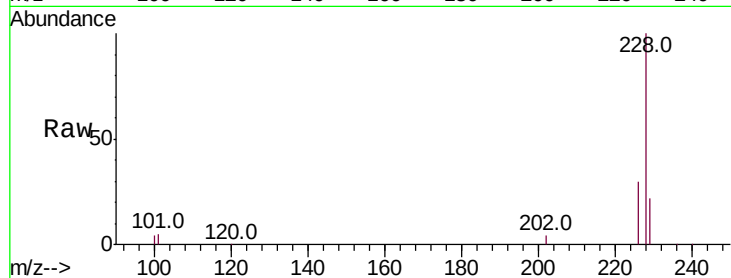
#19  
Chrysene  
Concen: 5.454 ng/ul  
RT: 21.02 min Scan# 3501  
Delta R.T. 0.01 min  
Lab File: BE097186.D  
Acq: 3 Aug 2018 19:17

Instrument :  
BNA\_E  
ClientSampleId :  
JJ1L3

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 198163 |       |       |
| 226     | 30.2  |        | 23.4  | 35.0  |
| 229     | 22.3  |        | 17.7  | 26.5  |

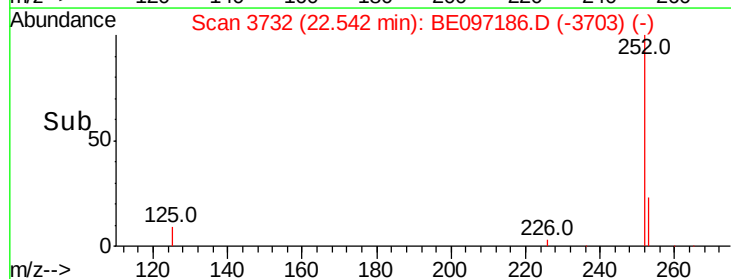
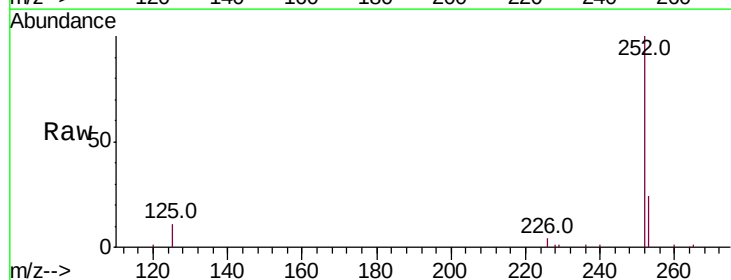
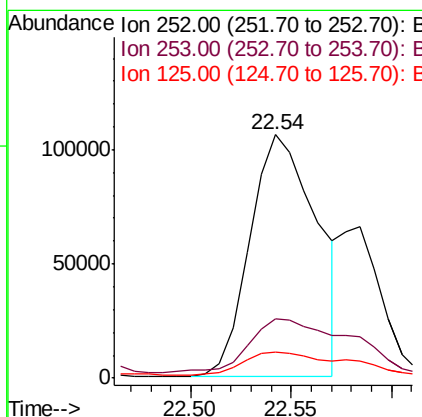
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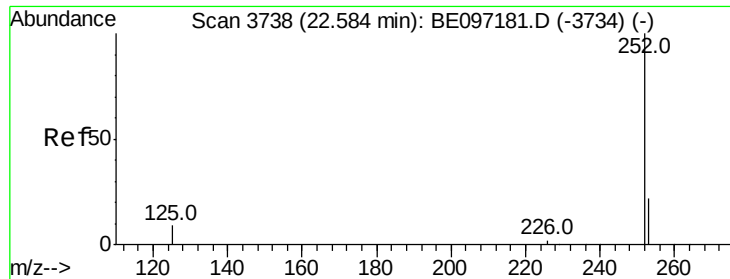


#21  
Benzo(b)fluoranthene  
Concen: 7.338 ng/ul m  
RT: 22.54 min Scan# 3732  
Delta R.T. 0.01 min  
Lab File: BE097186.D  
Acq: 3 Aug 2018 19:17

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 246705 |       |       |
| 253     | 24.2  |        | 0.0   | 64.2  |
| 125     | 10.8  |        | 0.0   | 35.0  |







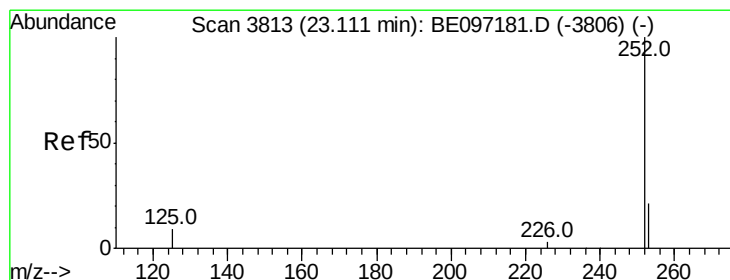
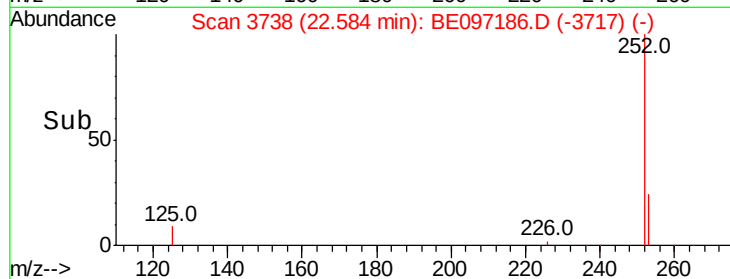
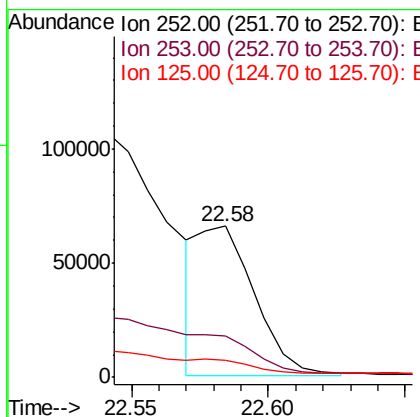
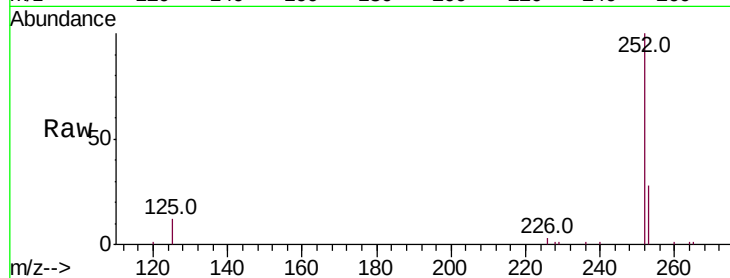
#22  
Benzo(k)fluoranthene  
Concen: 2.533 ng/ul m  
RT: 22.58 min Scan# 3738  
Delta R.T. 0.00 min  
Lab File: BE097186.D  
Acq: 3 Aug 2018 19:17

Instrument :  
BNA\_E  
ClientSampled :  
JJ1L3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.8  | 24.5  | 36.7  |
| 125     | 11.7  | 13.7  | 20.5# |

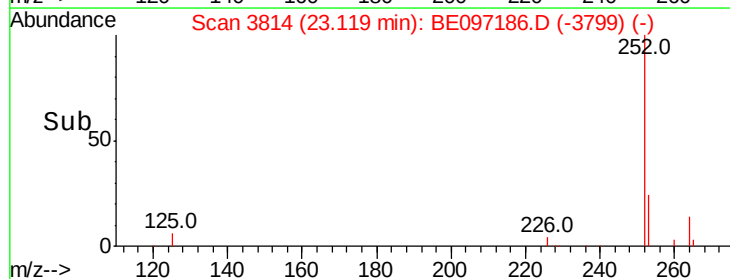
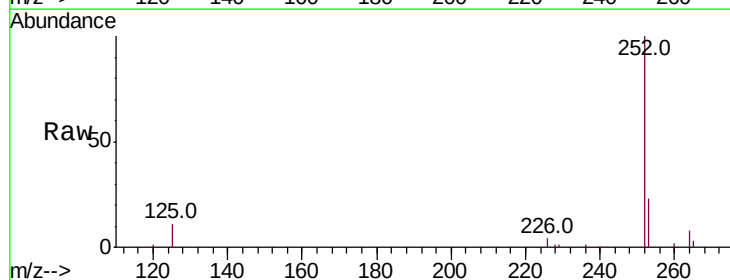
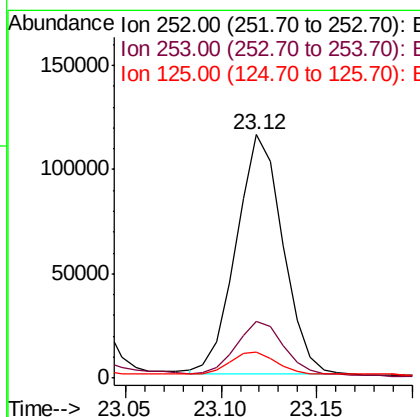
Manual Integrations  
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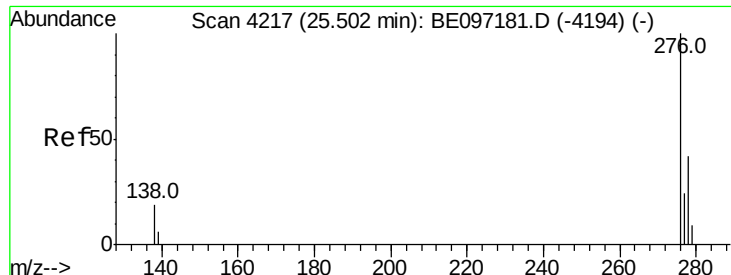
Sohil  
8/6/2018 4:32:28 PM



#23  
Benzo(a)pyrene  
Concen: 5.780 ng/ul m  
RT: 23.12 min Scan# 3814  
Delta R.T. 0.01 min  
Lab File: BE097186.D  
Acq: 3 Aug 2018 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 28.5  | 42.7# |
| 125     | 10.8  | 18.1  | 27.1# |





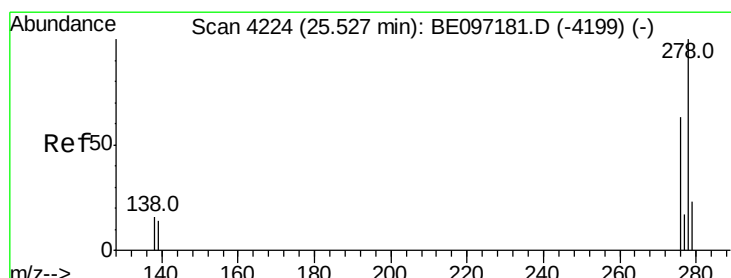
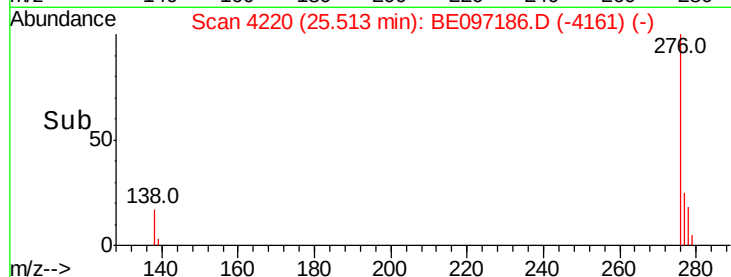
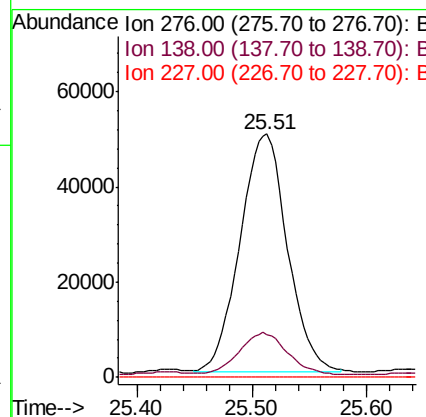
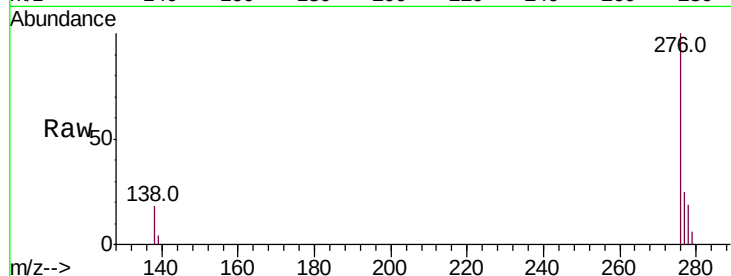
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.415 ng/ul m  
 RT: 25.51 min Scan# 4220  
 Delta R.T. 0.01 min  
 Lab File: BE097186.D  
 Acq: 3 Aug 2018 19:17

Instrument :  
 BNA\_E  
 ClientSampleId :  
 JJ1L3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 2.2   | 28.0       | 42.0# |
| 227     | 0.0   | 8.0        | 12.0# |

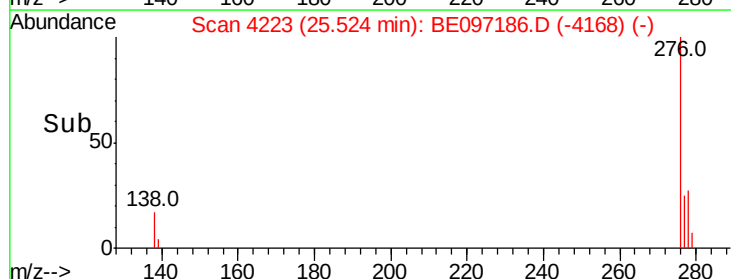
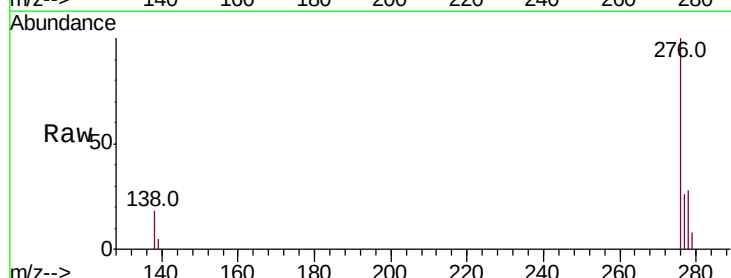
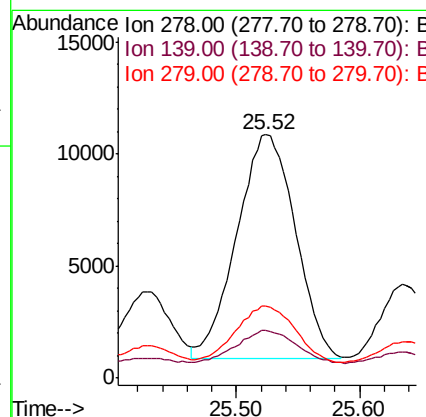
Manual Integrations  
 APPROVED

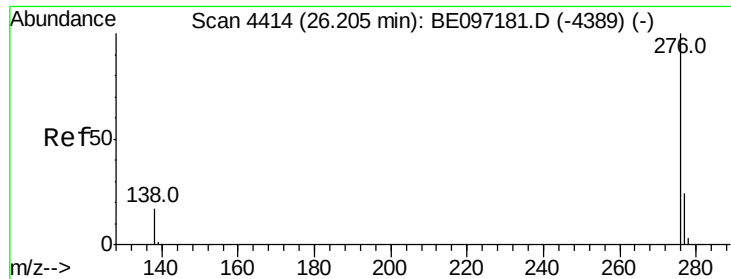
Sohil  
 8/6/2018 4:32:28 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.955 ng/ul m  
 RT: 25.52 min Scan# 4223  
 Delta R.T. -0.00 min  
 Lab File: BE097186.D  
 Acq: 3 Aug 2018 19:17

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 278     | 100   |            |       |
| 139     | 19.5  | 17.4       | 26.0  |
| 279     | 29.5  | 25.9       | 38.9  |





#26

Benzo(a,h,i)perylene

Concen: 3.730 ng/ul m

RT: 26.22 min Scan# 4417

Delta R.T. 0.01 min

Lab File: BE097186.D

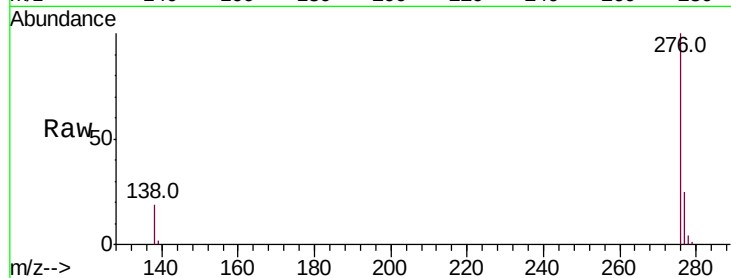
Acq: 3 Aug 2018 19:17

Instrument :

BNA\_E

ClientSampleId :

JJ1L3



| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.9  | 21.8  | 32.8# |
| 277     | 24.8  | 20.5  | 30.7  |

Manual Integrations  
APPROVED

Sohil  
8/6/2018 4:32:28 PM

