

Data Path : Z:\HPCHEM1\BNA E\DATA\BE042018\  
 Data File : BE096065.D  
 Acq On : 21 Apr 2018 6:01  
 Operator : SJ/JU  
 Sample : J2434-17  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 4/23/2018 6:44:23 PM

Quant Time: Apr 23 04:37:04 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 23 01:07:45 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.38  | 152  | 2093     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.20 | 136  | 5876     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.97 | 164  | 3412     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.68 | 188  | 7650     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.77 | 240  | 9202     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.37 | 264  | 7856     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.76 | 152  | 1237     | 0.11   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.66 | 212  | 3355     | 0.11   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.25 | 128  | 1767     | 0.108  | ng/ul# | 89       |
| 5) 2-Methylnaphthalene      | 12.83 | 142  | 1157     | 0.104  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.70 | 152  | 1012     | 0.057  | ng/ul# | 87       |
| 8) Acenaphthene             | 15.03 | 153  | 1962     | 0.155  | ng/ul  | 94       |
| 9) Fluorene                 | 16.00 | 166  | 2098     | 0.146  | ng/ul  | 89       |
| 12) Phenanthrene            | 17.71 | 178  | 45034    | 1.997  | ng/ul# | 88       |
| 13) Anthracene              | 17.80 | 178  | 9142     | 0.407  | ng/ul# | 91       |
| 15) Fluoranthene            | 19.68 | 202  | 104297   | 3.400  | ng/ul  | 84       |
| 17) Pyrene                  | 20.04 | 202  | 90771    | 2.903  | ng/ul# | 78       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 59792    | 1.608  | ng/ul# | 85       |
| 19) Chrysene                | 21.80 | 228  | 53041    | 1.982  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 23.57 | 252  | 77659m   | 3.055  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.61 | 252  | 22052m   | 0.871  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.26 | 252  | 50480    | 2.058  | ng/ul# | 77       |
| 24) Indeno(1,2,3-cd)pyrene  | 27.16 | 276  | 33758    | 1.238  | ng/ul# | 74       |
| 25) Dibenzo(a,h)anthracene  | 27.17 | 278  | 8995     | 0.410  | ng/ul  | 93       |
| 26) Benzo(a,h,i)perylene    | 28.04 | 276  | 32931    | 1.446  | ng/ul# | 92       |

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

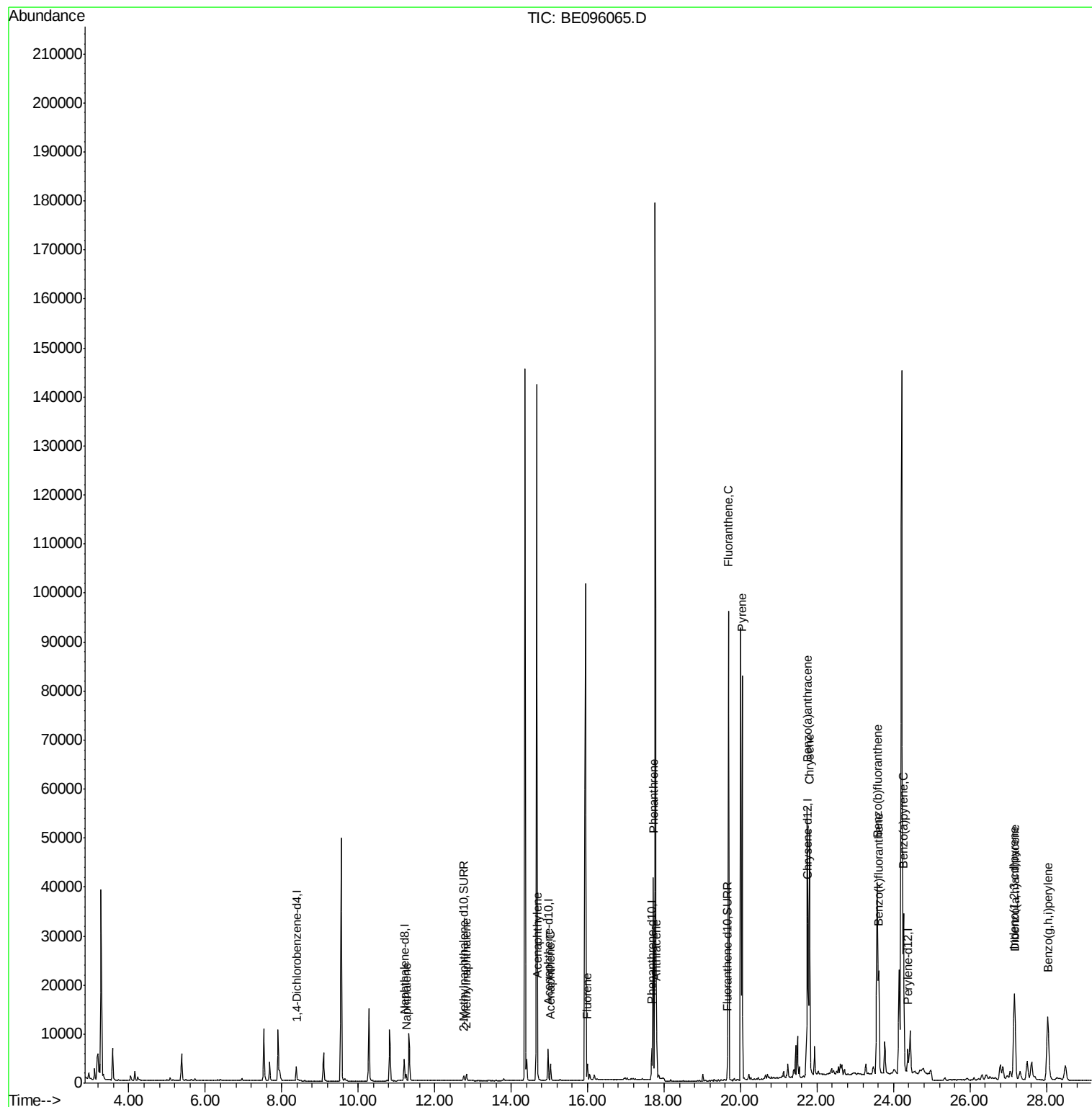
Data Path : Z:\HPCHEM1\BNA E\DATA\BE042018\  
Data File : BE096065.D  
Acq On : 21 Apr 2018 6:01  
Operator : SJ/JU  
Sample : J2434-17  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

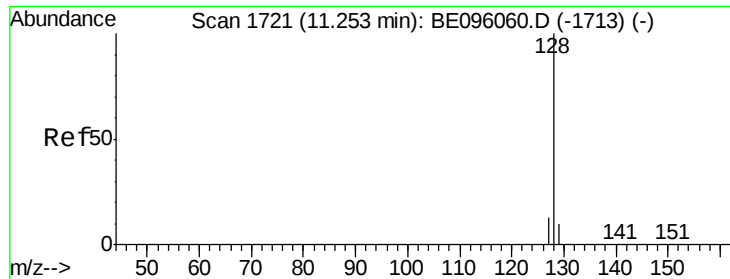
Instrument :  
BNA\_E  
ClientSampleId :  
C0AD2

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Quant Time: Apr 23 04:37:04 2018  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 23 01:07:45 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.108 ng/ul

RT: 11.25 min Scan# 1721

Delta R.T. -0.00 min

Lab File: BE096065.D

Acq: 21 Apr 2018 6:01

Instrument :

BNA\_E

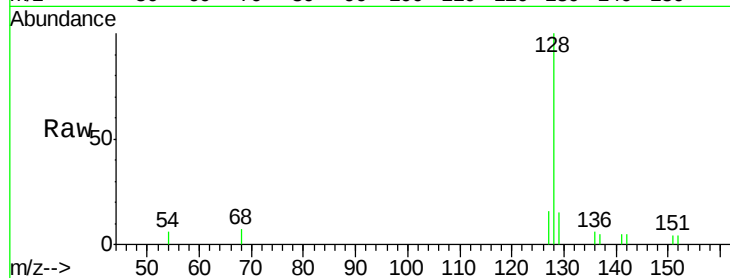
ClientSampled :

C0AD2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 15.0  | 11.3  | 16.9  |
| 127     | 16.5  | 4.0   | 6.0   |

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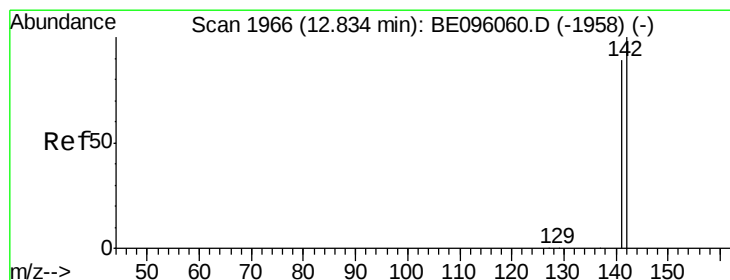
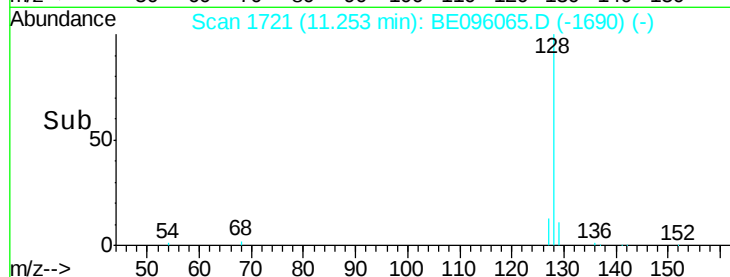
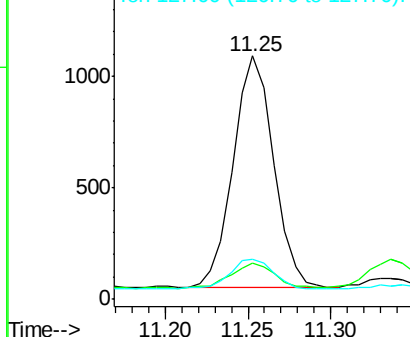


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.104 ng/ul

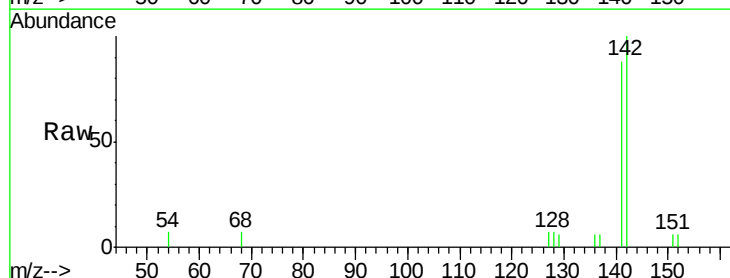
RT: 12.83 min Scan# 1966

Delta R.T. -0.00 min

Lab File: BE096065.D

Acq: 21 Apr 2018 6:01

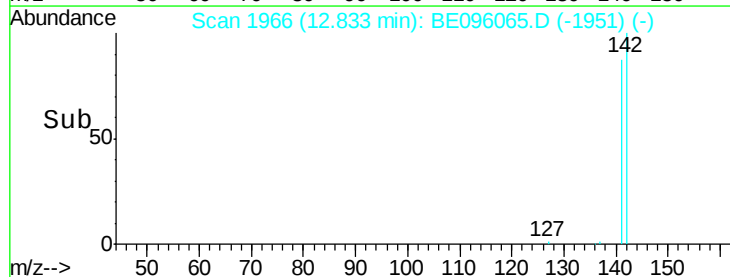
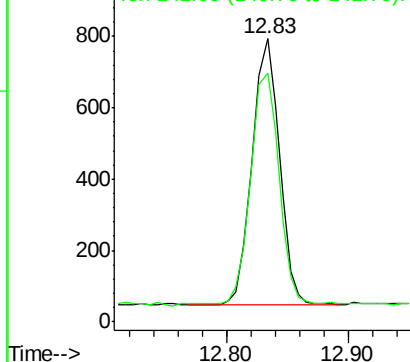
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.3  | 72.6  | 108.8 |

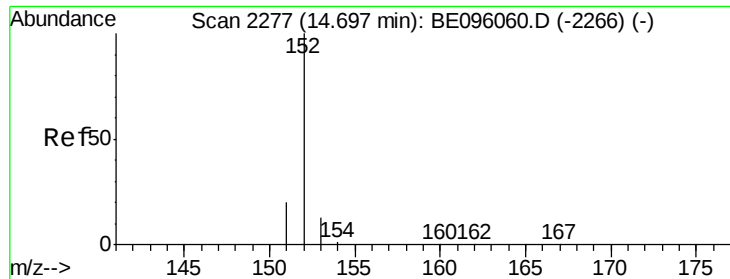


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.057 ng/ul

RT: 14.70 min Scan# 2277

Delta R.T. -0.00 min

Lab File: BE096065.D

Acq: 21 Apr 2018 6:01

Instrument :

BNA\_E

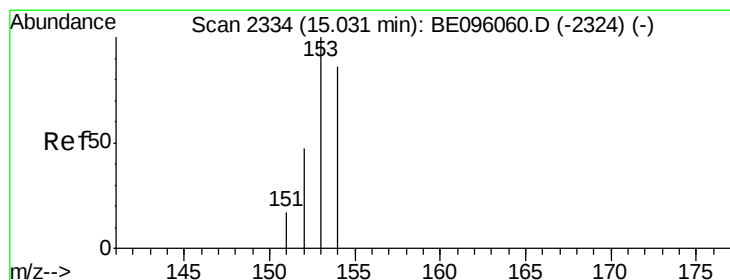
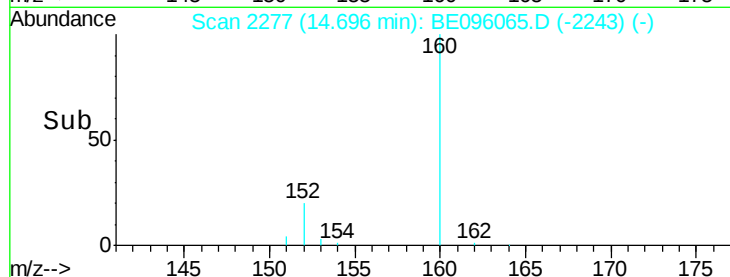
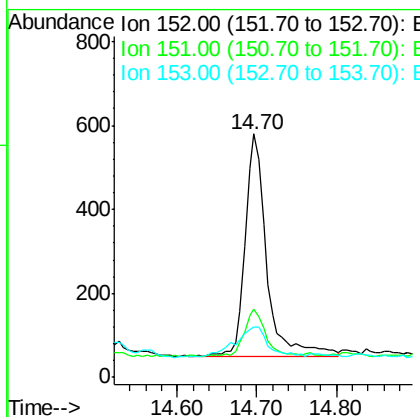
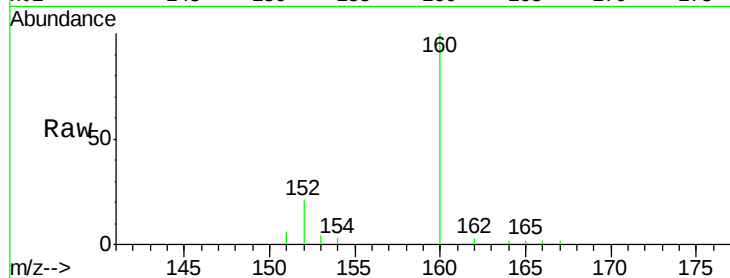
ClientSampleId :

C0AD2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1012  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 27.9  | 17.1  | 25.7# |
| 153       | 20.9  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.155 ng/ul

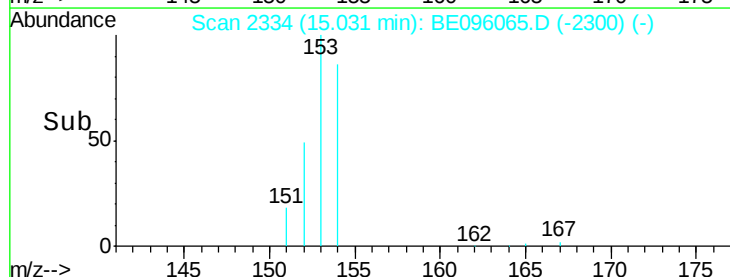
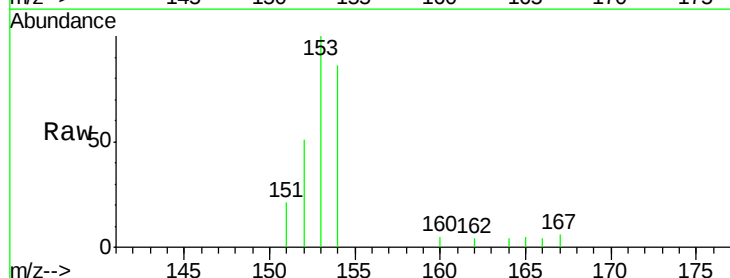
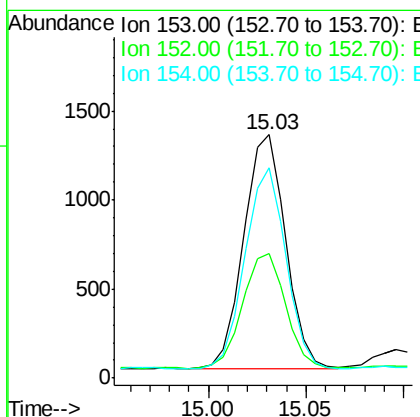
RT: 15.03 min Scan# 2334

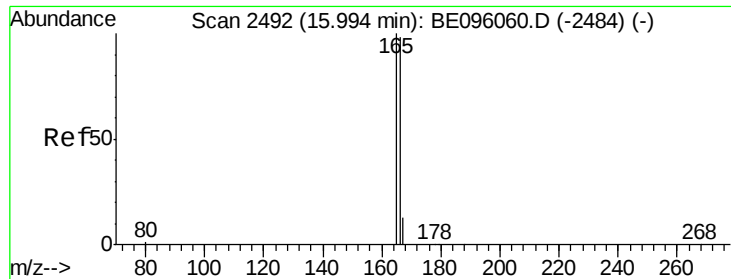
Delta R.T. -0.00 min

Lab File: BE096065.D

Acq: 21 Apr 2018 6:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1962  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 51.0  | 36.0  | 54.0  |
| 154       | 86.4  | 72.0  | 108.0 |





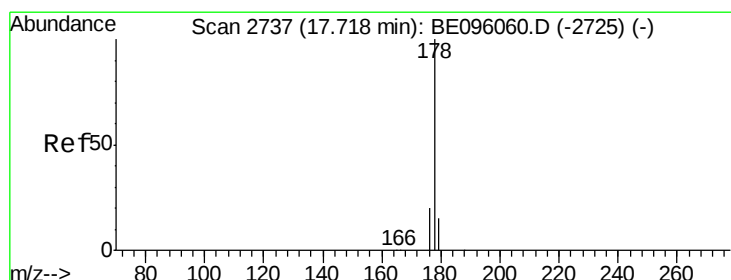
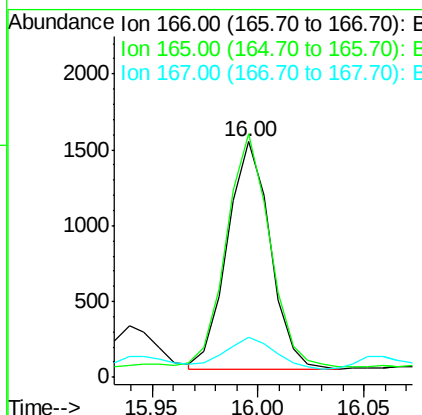
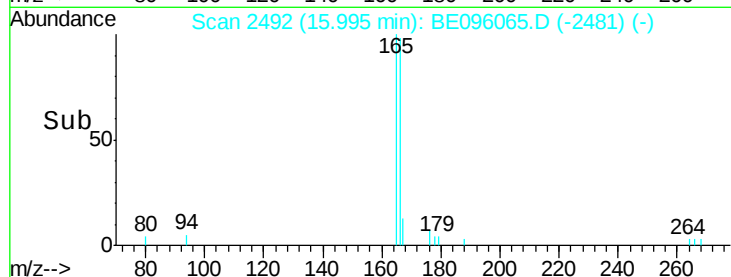
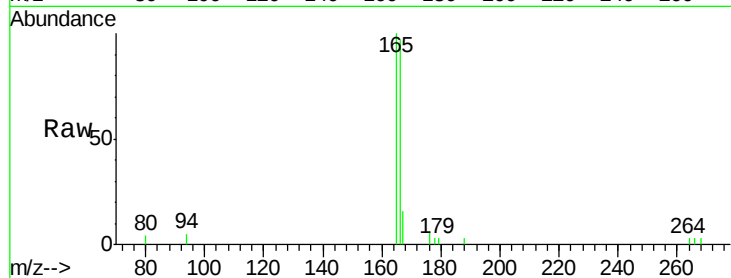
#9  
**Fluorene**  
 Concen: 0.146 ng/ul  
 RT: 16.00 min Scan# 2492  
 Delta R.T. 0.00 min  
 Lab File: BE096065.D  
 Acq: 21 Apr 2018 6:01

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AD2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 103.4 | 73.4  | 110.2 |
| 167     | 16.9  | 14.6  | 22.0  |

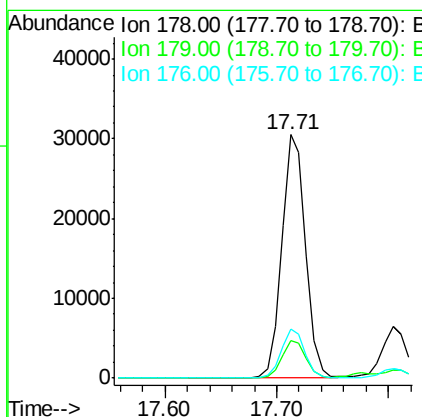
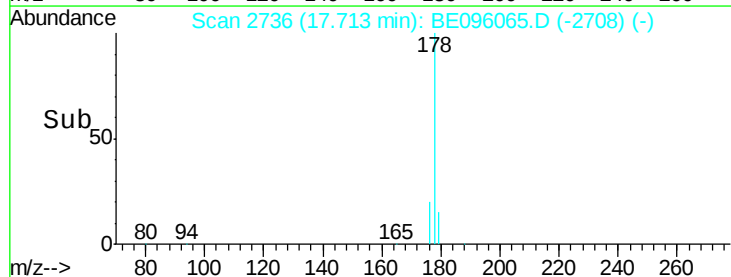
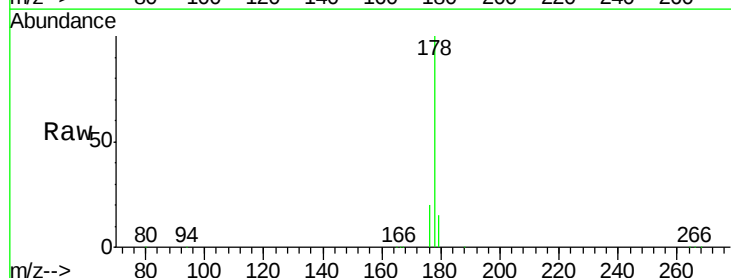
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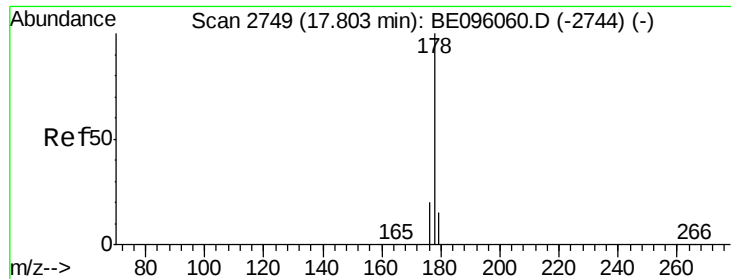
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#12  
**Phenanthrene**  
 Concen: 1.997 ng/ul  
 RT: 17.71 min Scan# 2736  
 Delta R.T. -0.01 min  
 Lab File: BE096065.D  
 Acq: 21 Apr 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 18.4  | 27.6# |
| 176     | 20.2  | 13.6  | 20.4  |





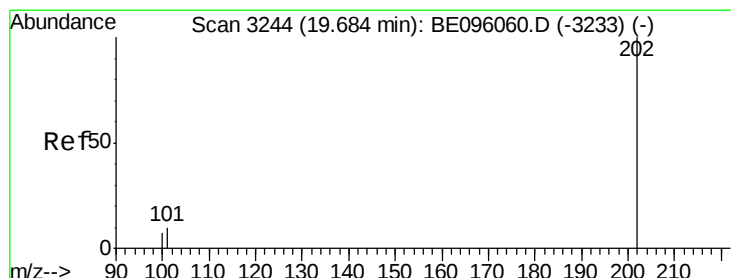
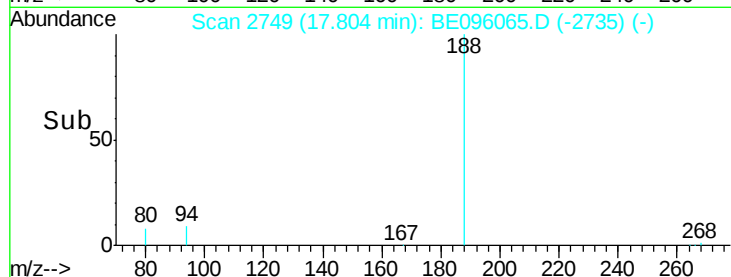
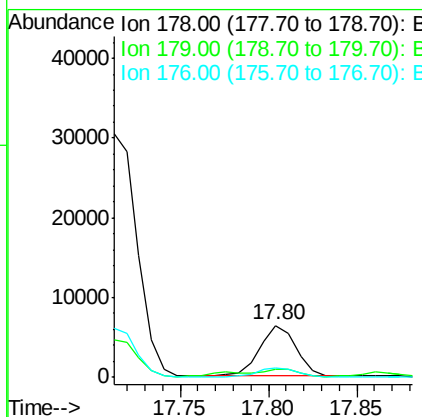
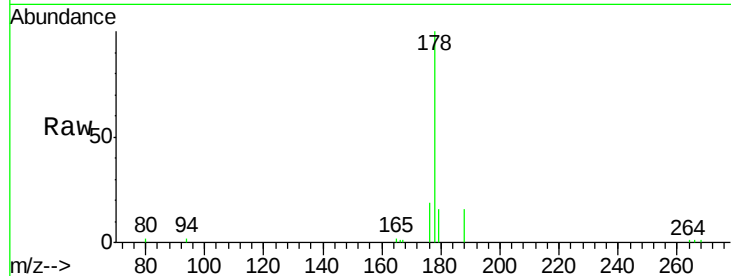
#13  
 Anthracene  
 Concen: 0.407 ng/ul  
 RT: 17.80 min Scan# 2749  
 Delta R.T. 0.00 min  
 Lab File: BE096065.D  
 Acq: 21 Apr 2018 6:01

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AD2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 18.1  | 27.1# |
| 176     | 19.3  | 14.7  | 22.1  |

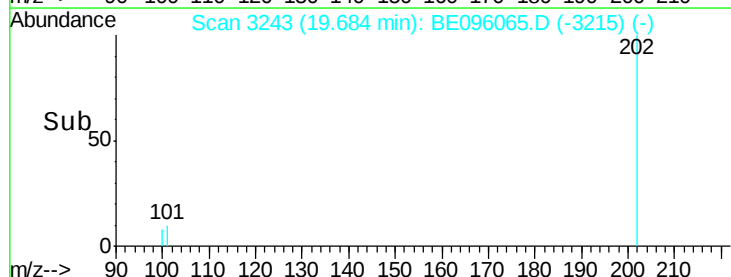
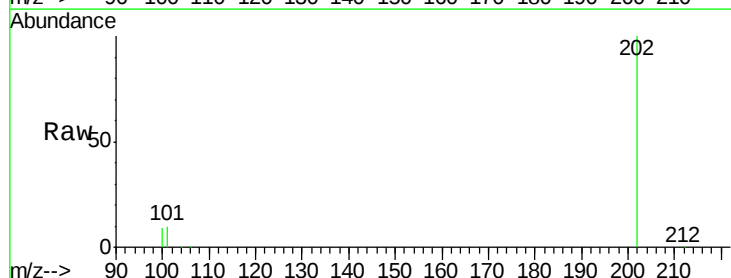
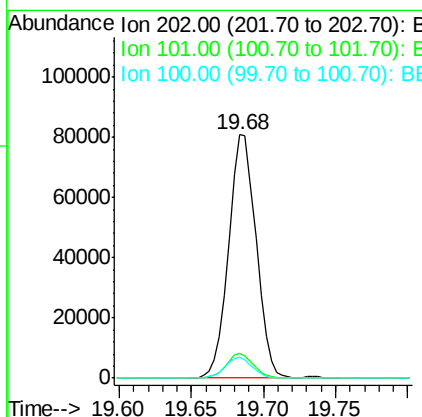
Manual Integrations  
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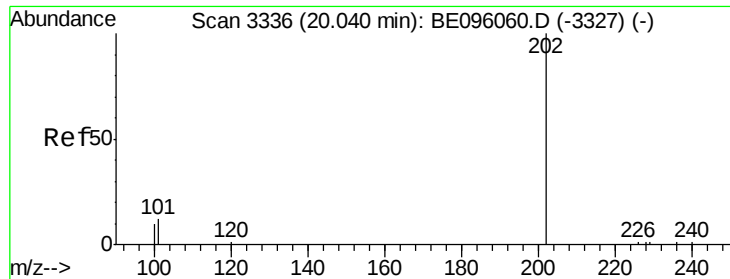
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#15  
 Fluoranthene  
 Concen: 3.400 ng/ul  
 RT: 19.68 min Scan# 3243  
 Delta R.T. -0.00 min  
 Lab File: BE096065.D  
 Acq: 21 Apr 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 0.0   | 30.3  |
| 100     | 8.5   | 0.0   | 39.5  |





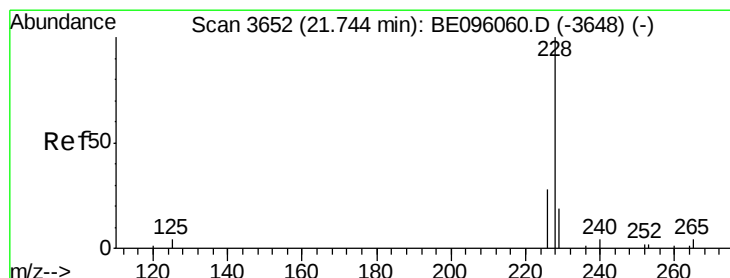
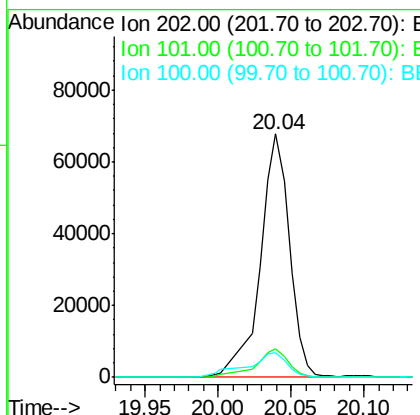
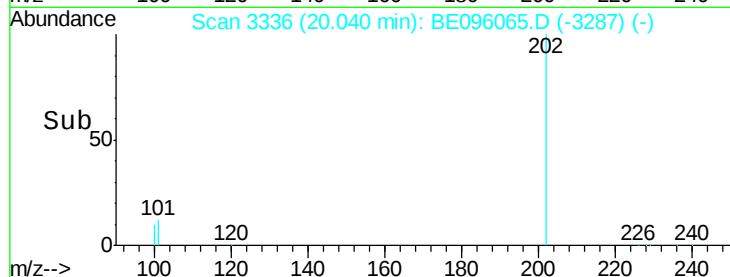
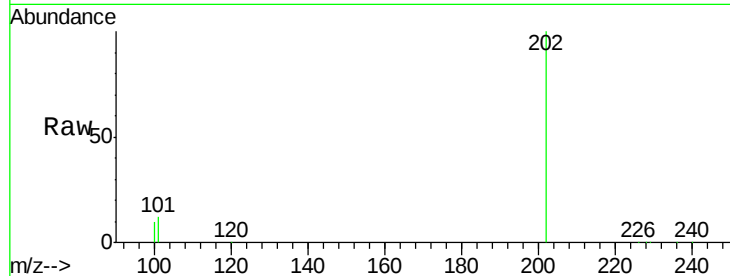
#17  
Pvrene  
Concen: 2.903 ng/ul  
RT: 20.04 min Scan# 3336  
Delta R.T. -0.00 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

Instrument :  
BNA\_E  
ClientSampled :  
C0AD2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.6  | 18.2       | 27.4# |
| 100     | 10.2  | 15.6       | 23.4# |

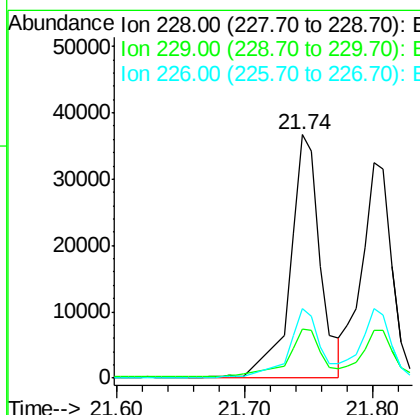
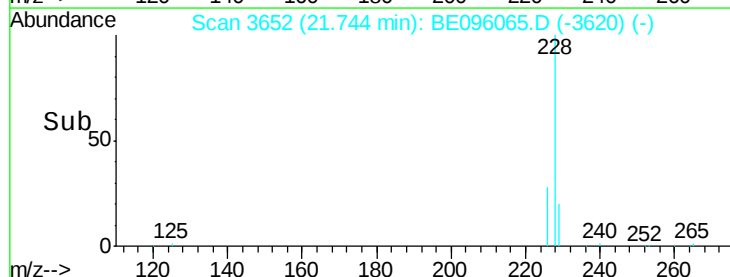
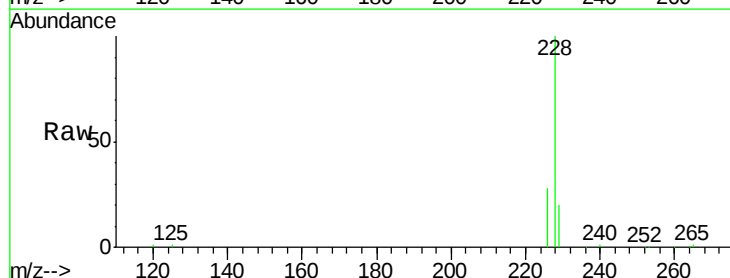
Manual Integrations  
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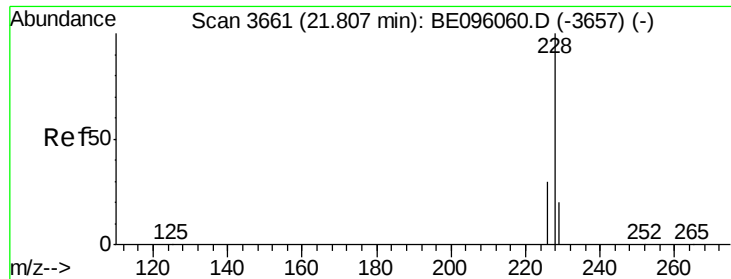
Sohil  
4/23/2018 6:44:23 PM



#18  
Benzo(a)anthracene  
Concen: 1.608 ng/ul  
RT: 21.74 min Scan# 3652  
Delta R.T. 0.00 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.3  | 22.8       | 34.2# |
| 226     | 28.4  | 17.0       | 25.6# |





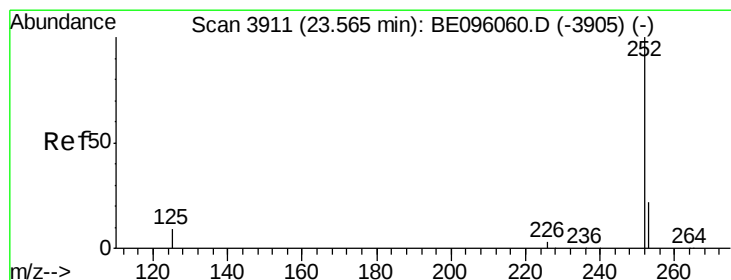
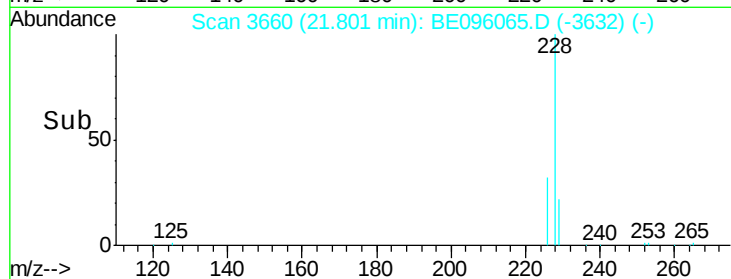
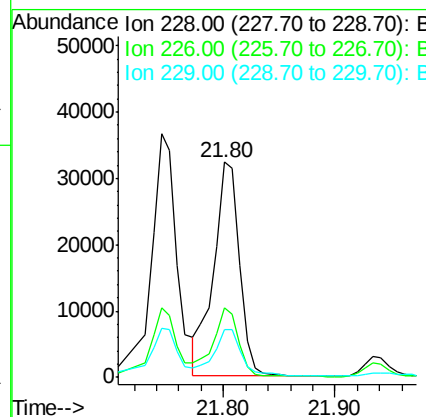
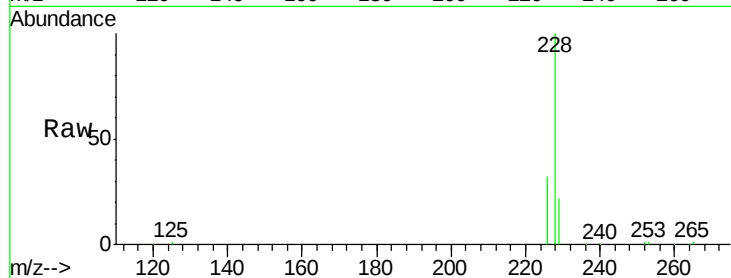
#19  
Chrysene  
Concen: 1.982 ng/ul  
RT: 21.80 min Scan# 3660  
Delta R.T. -0.01 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

Instrument :  
BNA\_E  
ClientSampleId :  
C0AD2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.1  | 23.4  | 35.0  |
| 229     | 22.1  | 17.7  | 26.5  |

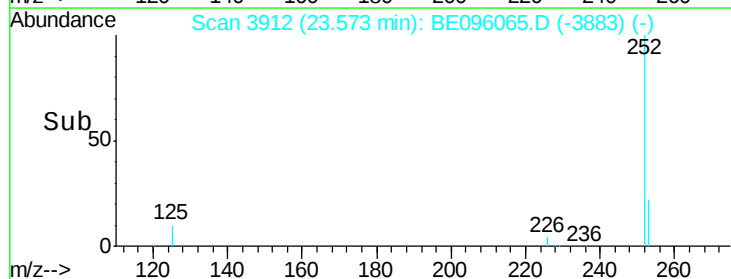
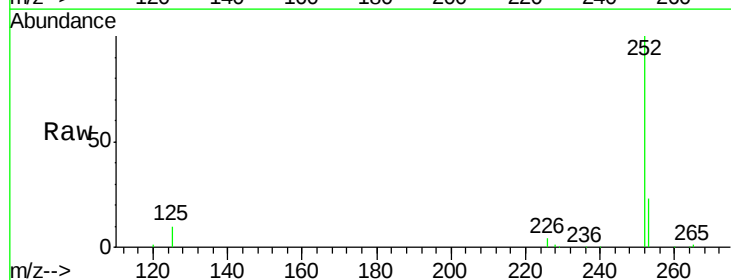
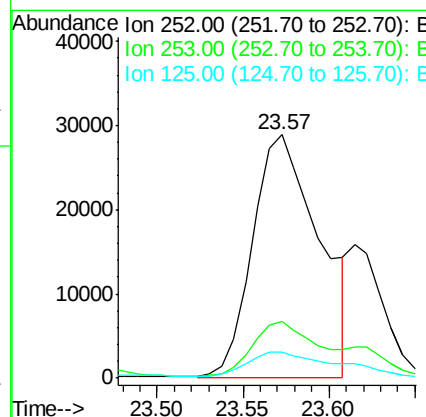
Manual Integrations  
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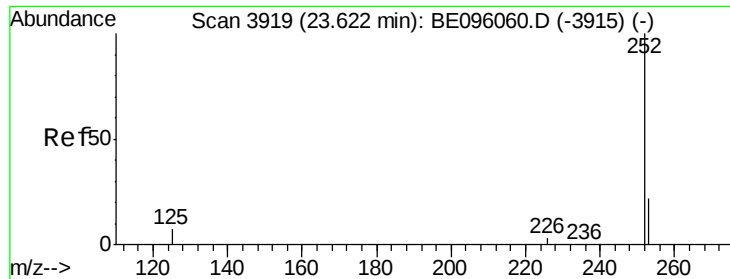
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#21  
Benzo(b)fluoranthene  
Concen: 3.055 ng/ul m  
RT: 23.57 min Scan# 3912  
Delta R.T. 0.01 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 0.0   | 64.2  |
| 125     | 10.4  | 0.0   | 35.0  |





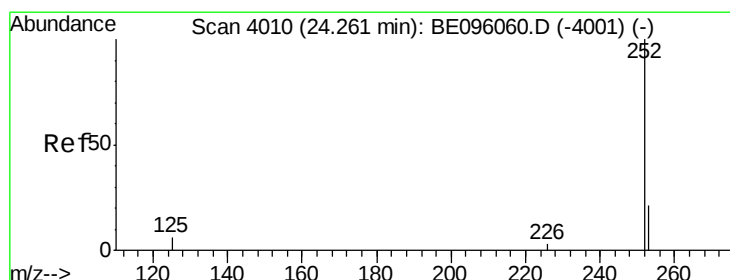
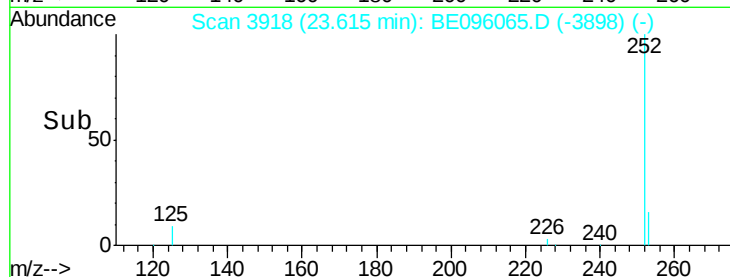
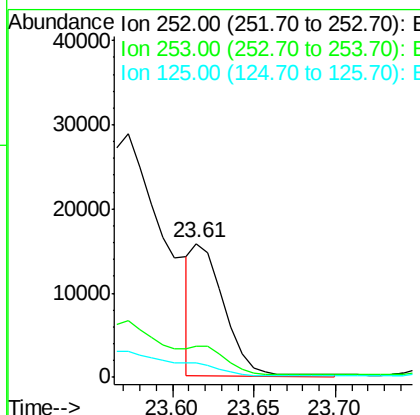
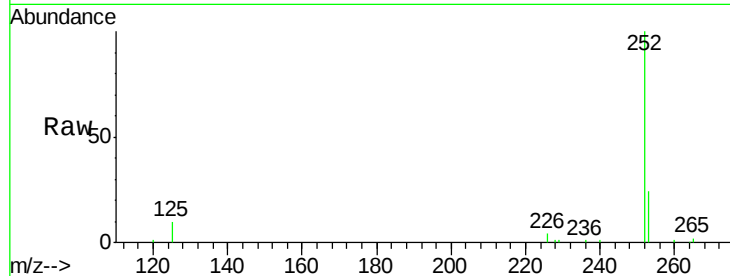
#22  
Benzo(k)fluoranthene  
Concen: 0.871 ng/ul m  
RT: 23.61 min Scan# 3918  
Delta R.T. -0.01 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

Instrument :  
BNA\_E  
ClientSampled :  
C0AD2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 24.5  | 36.7# |
| 125     | 10.5  | 13.7  | 20.5# |

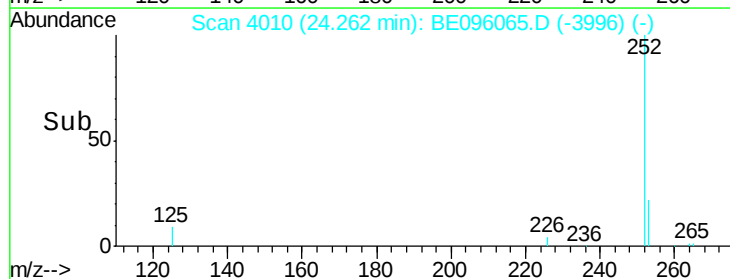
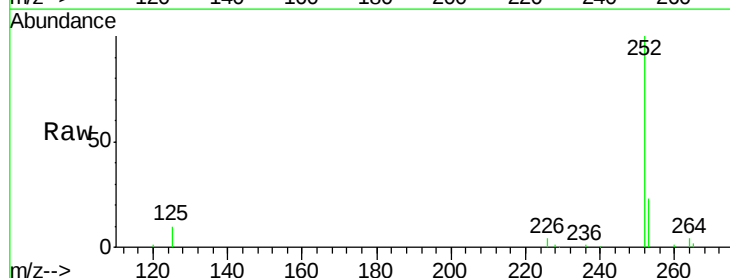
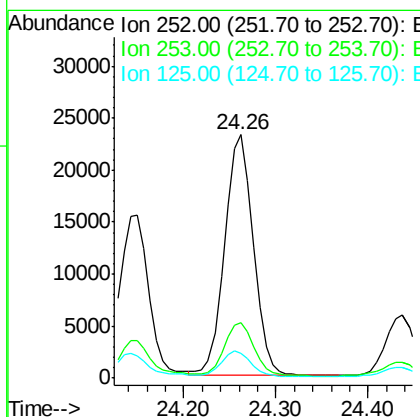
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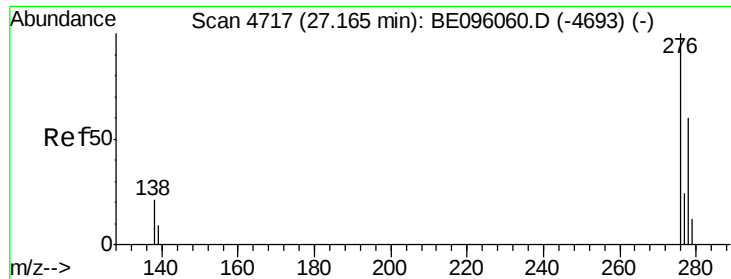
Sohil  
4/23/2018 6:44:23 PM



#23  
Benzo(a)pyrene  
Concen: 2.058 ng/ul  
RT: 24.26 min Scan# 4010  
Delta R.T. 0.00 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 28.5  | 42.7# |
| 125     | 10.4  | 18.1  | 27.1# |





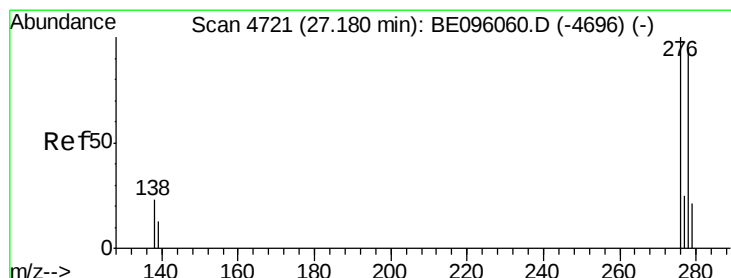
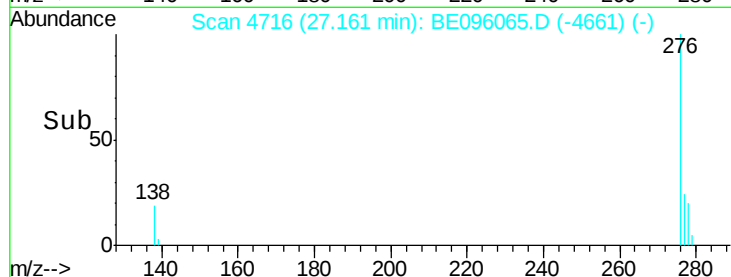
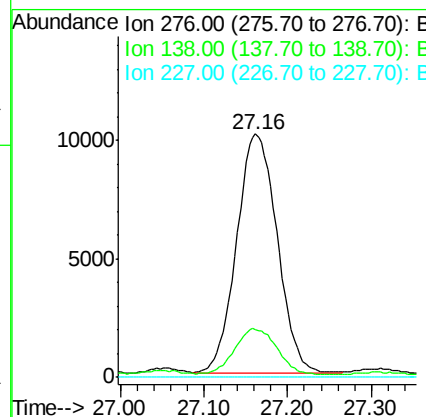
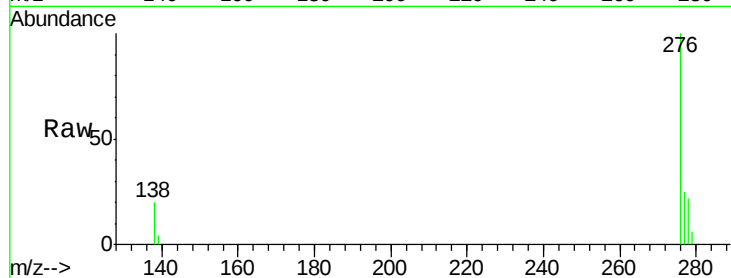
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.238 ng/ul  
 RT: 27.16 min Scan# 4716  
 Delta R.T. -0.00 min  
 Lab File: BE096065.D  
 Acq: 21 Apr 2018 6:01

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AD2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.0  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

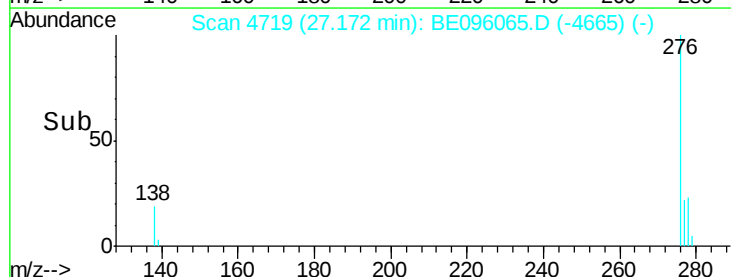
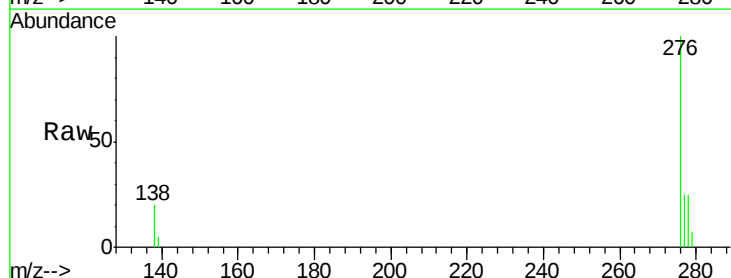
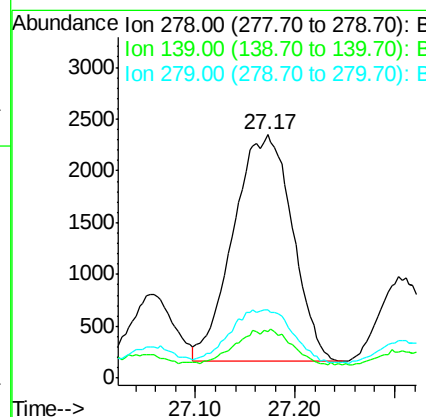
Manual Integrations  
 APPROVED

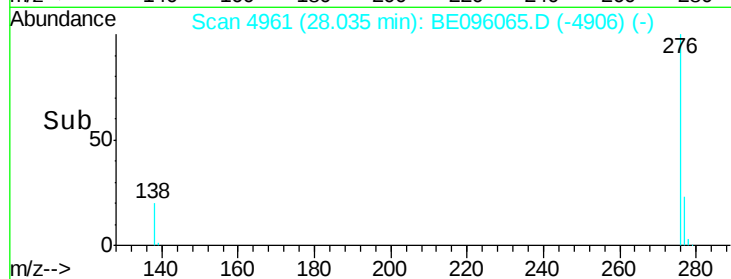
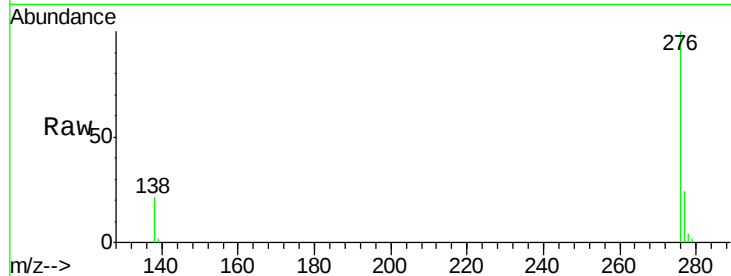
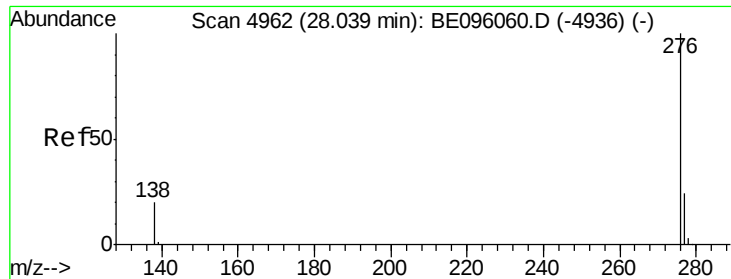
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.410 ng/ul  
 RT: 27.17 min Scan# 4719  
 Delta R.T. -0.01 min  
 Lab File: BE096065.D  
 Acq: 21 Apr 2018 6:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.3  | 17.4  | 26.0  |
| 279     | 28.2  | 25.9  | 38.9  |





#26  
Benzo(a,h,i)perylene  
Concen: 1.446 ng/ul  
RT: 28.04 min Scan# 4961  
Delta R.T. -0.00 min  
Lab File: BE096065.D  
Acq: 21 Apr 2018 6:01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.5  | 21.8  | 32.8# |
| 277     | 24.4  | 20.5  | 30.7  |

Instrument :  
BNA\_E  
ClientSampleId :  
C0AD2

Manual Integrations  
APPROVED

Sohil  
4/23/2018 6:44:23 PM

