

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\  
 Data File : BN005411.D  
 Acq On : 01 May 2019 15:21  
 Operator : JU/SJ  
 Sample : K2481-06MEDL 10X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHW1MEDL

Manual Integrations  
 APPROVED

Sohil  
 5/2/2019 4:57:20 PM

Quant Time: May 02 00:20:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 25 03:19:34 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 510405   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 2157870  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1262529  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.99 | 188  | 2647180  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 1798337  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.42 | 264  | 1907824  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 4538   | 0.43 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 89428  | 2.23 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 55150  | 2.21 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 73648  | 2.40 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.30  | 113 | 65928  | 2.10 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.74  | 128 | 38906  | 2.93 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 38385  | 2.85 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 73128  | 2.37 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.50 | 131 | 104418 | 3.28 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 238665 | 2.60 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 297726 | 2.64 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 21683m | 1.50 | ng/ul | 0.03  |
| 57) Fluorene-d10               | 15.23 | 176 | 210129 | 2.73 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 4340   | 0.36 | ng/ul | 0.02  |
| 70) Anthracene-d10             | 17.08 | 188 | 312739 | 2.82 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 272785 | 2.97 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 212948 | 2.55 | ng/ul | -0.03 |

## Target Compounds

|                         |       |     |         |        | Ovalue |    |
|-------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene         | 10.40 | 128 | 2652738 | 26.444 | ng/ul  | 99 |
| 34) 2-Methylnaphthalene | 12.03 | 142 | 2510073 | 34.173 | ng/ul  | 98 |
| 40) 1,1'-Biphenyl       | 13.06 | 154 | 165491  | 1.759  | ng/ul# | 95 |
| 47) Acenaphthylene      | 13.95 | 152 | 709312  | 6.412  | ng/ul  | 98 |
| 58) Fluorene            | 15.28 | 166 | 340426  | 4.012  | ng/ul  | 97 |
| 69) Phenanthrene        | 17.03 | 178 | 1398612 | 10.849 | ng/ul  | 99 |
| 71) Anthracene          | 17.12 | 178 | 272636  | 2.076  | ng/ul  | 99 |
| 76) Fluoranthene        | 19.06 | 202 | 230324  | 1.611  | ng/ul  | 97 |
| 79) Pvrene              | 19.42 | 202 | 354335  | 3.060  | ng/ul  | 96 |
| 82) Benzo(a)anthracene  | 21.20 | 228 | 115237m | 1.030  | ng/ul  |    |

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

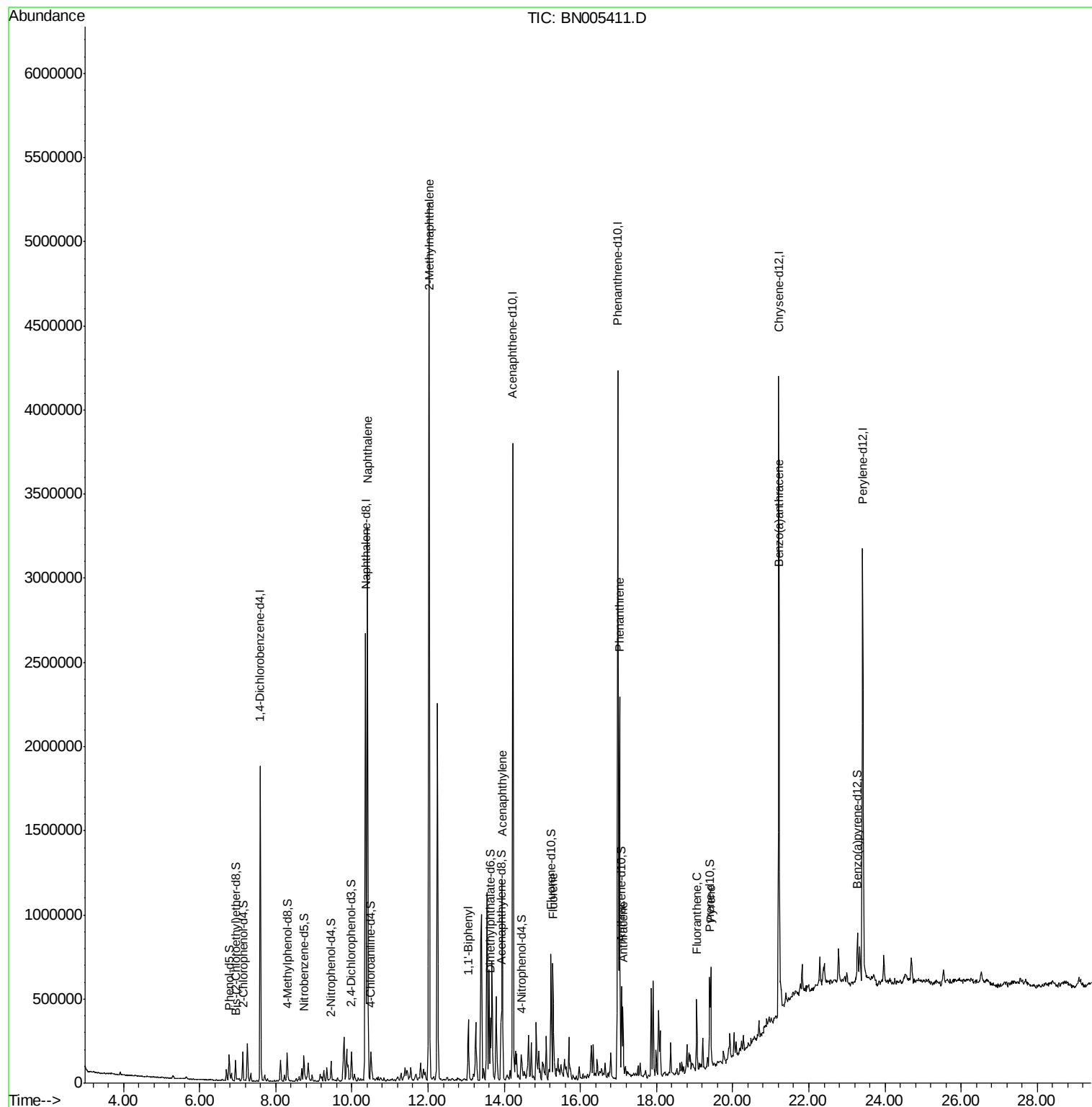
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\  
Data File : BN005411.D  
Acq On : 01 May 2019 15:21  
Operator : JU/SJ  
Sample : K2481-06MEDL 10X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

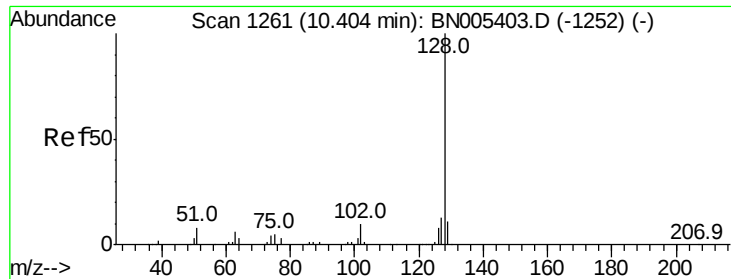
Instrument :  
BNA\_N  
ClientSampleId :  
GAHW1MEDL

Manual Integrations  
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Quant Time: May 02 00:20:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Apr 25 03:19:34 2019  
Response via : Initial Calibration





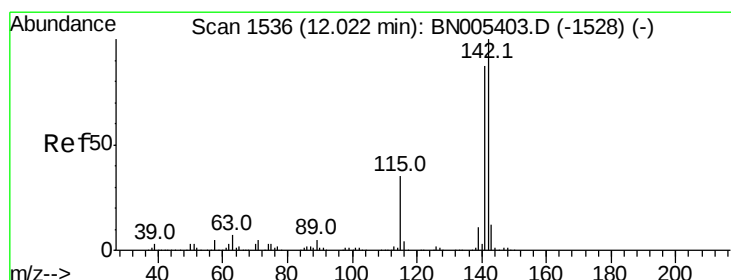
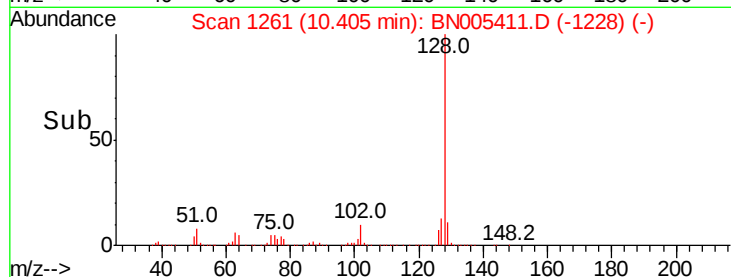
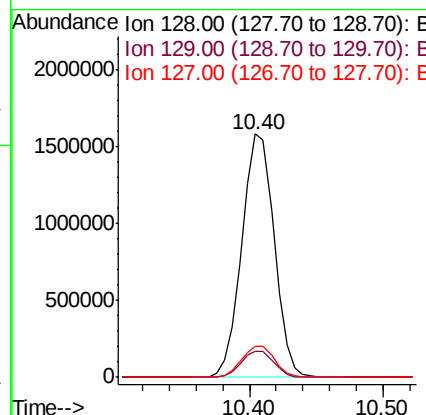
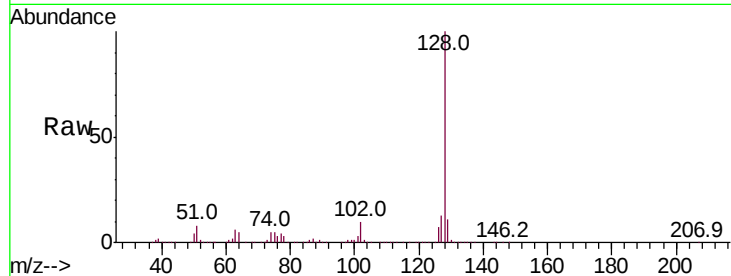
#28  
Naphthalene  
Concen: 26.444 ng/ul  
RT: 10.40 min Scan# 1261  
Delta R.T. -0.01 min  
Lab File: BN005411.D  
Acq: 01 May 2019 15:21

Instrument :  
BNA\_N  
ClientSampleId :  
GAHW1MEDL

Tot Ion:128 Resp: 2652738  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.2 13.8  
127 13.0 10.7 16.1

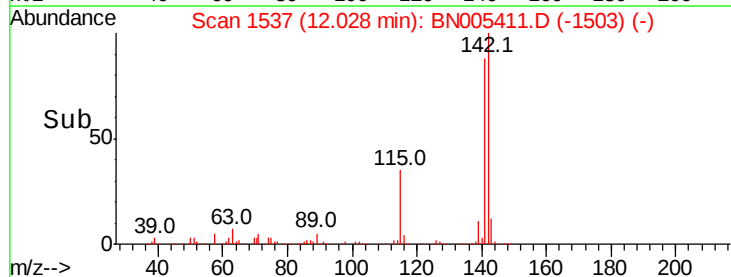
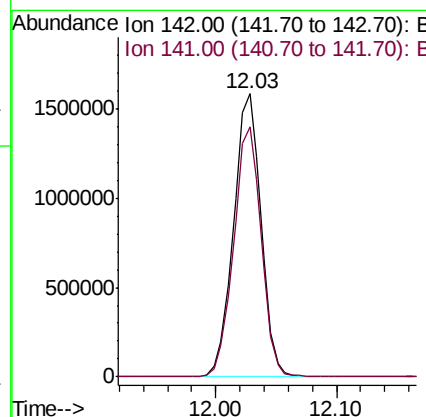
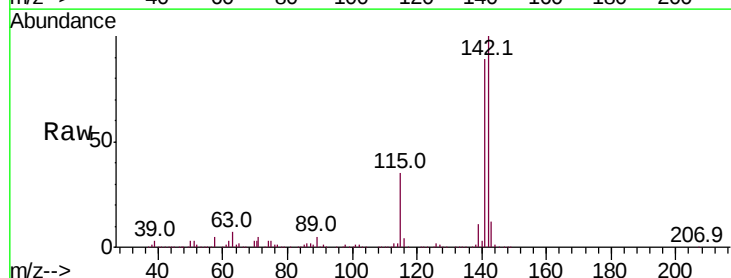
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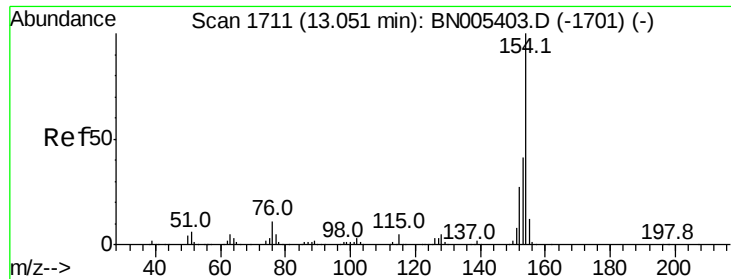
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#34  
2-Methylnaphthalene  
Concen: 34.173 ng/ul  
RT: 12.03 min Scan# 1537  
Delta R.T. 0.00 min  
Lab File: BN005411.D  
Acq: 01 May 2019 15:21

Tgt Ion:142 Resp: 2510073  
Ion Ratio Lower Upper  
142 100  
141 88.6 72.0 108.0





#40

1,1'-Biphenyl

Concen: 1.759 ng/ul

RT: 13.06 min Scan# 1712

Delta R.T. 0.00 min

Lab File: BN005411.D

Acq: 01 May 2019 15:21

Instrument :

BNA\_N

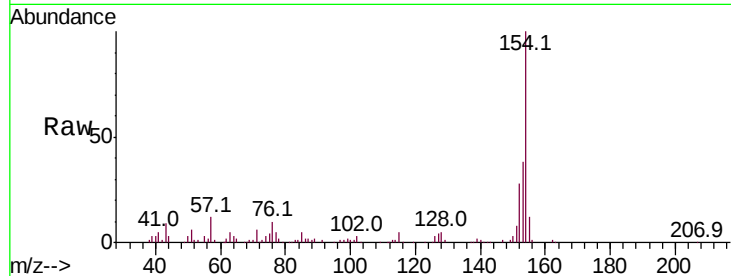
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GAHW1MEDL

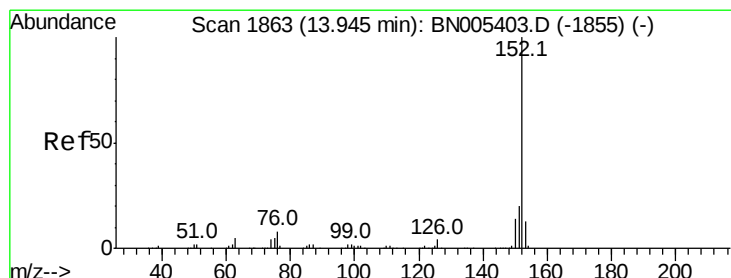
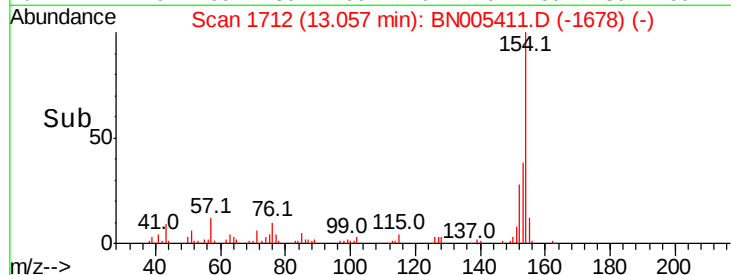
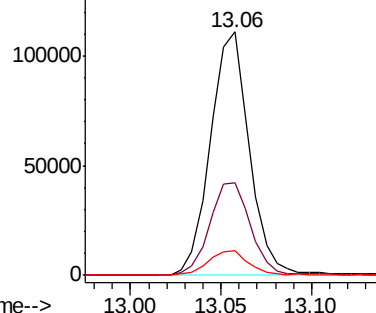
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 165491 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 38.2  | 32.6  | 49.0   |
| 76        | 10.3  | 10.4  | 15.6   |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BNO



#47

Acenaphthylene

Concen: 6.412 ng/ul

RT: 13.95 min Scan# 1863

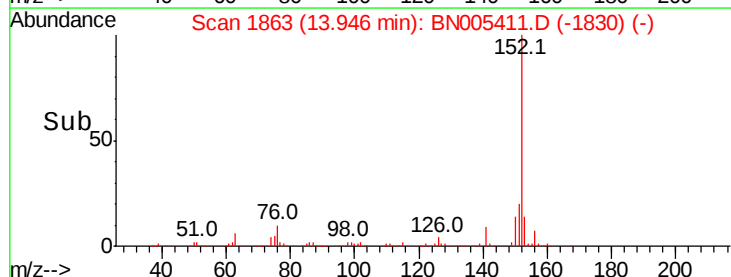
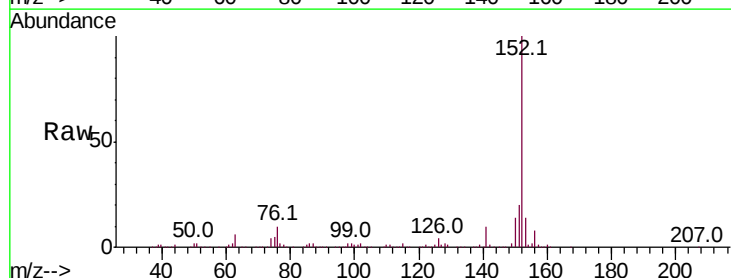
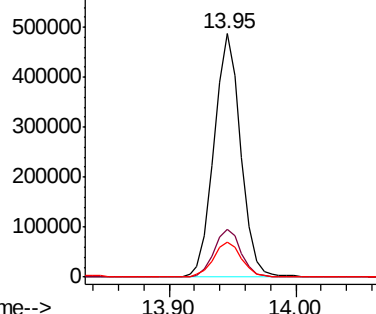
Delta R.T. -0.01 min

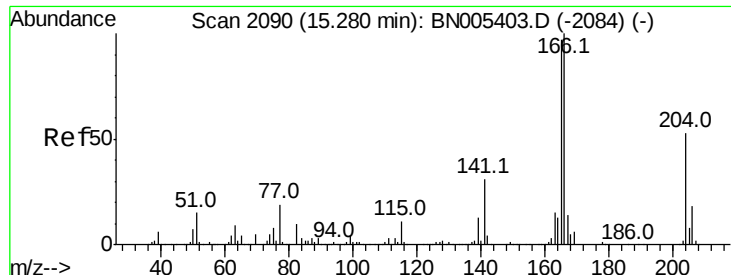
Lab File: BN005411.D

Acq: 01 May 2019 15:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 709312 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.8  | 15.8  | 23.8   |
| 153       | 14.2  | 9.8   | 14.8   |

Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





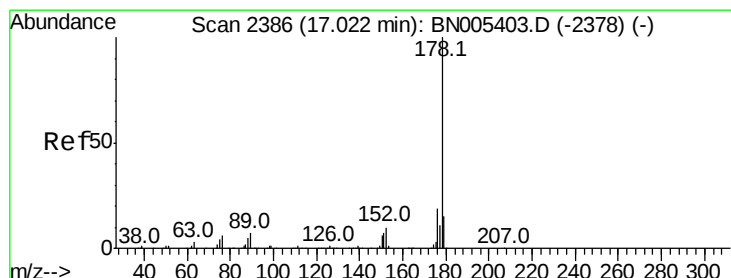
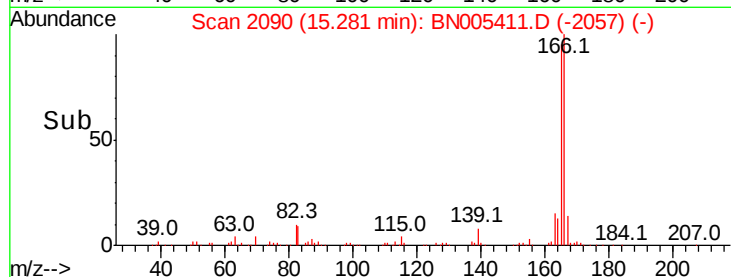
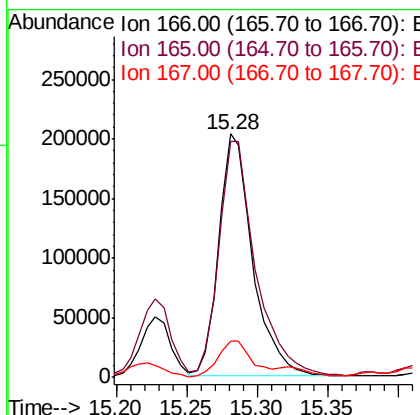
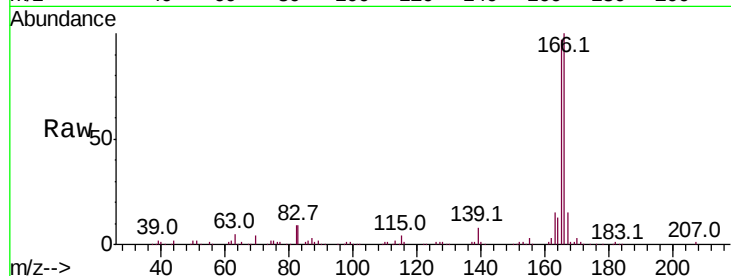
#58  
**Fluorene**  
 Concen: 4.012 ng/ul  
 RT: 15.28 min Scan# 2090  
 Delta R.T. -0.01 min  
 Lab File: BN005411.D  
 Acq: 01 May 2019 15:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHW1MEDL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 340426 |       |       |
| 165     | 96.8  | 80.0   | 120.0 |       |
| 167     | 15.1  | 10.7   | 16.1  |       |

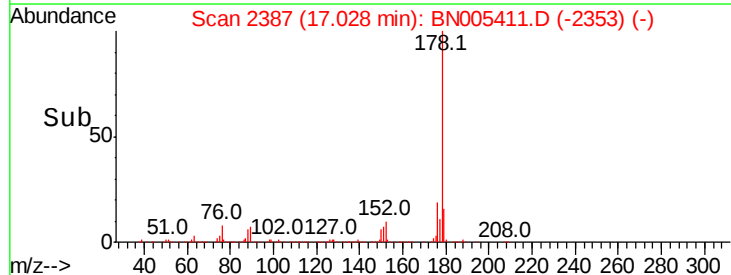
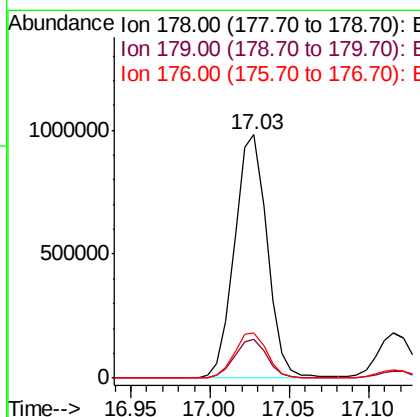
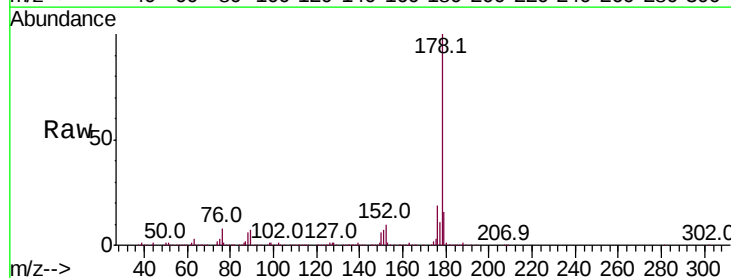
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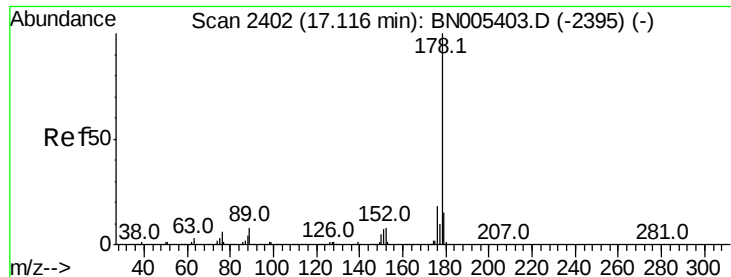
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#69  
**Phenanthrene**  
 Concen: 10.849 ng/ul  
 RT: 17.03 min Scan# 2387  
 Delta R.T. 0.00 min  
 Lab File: BN005411.D  
 Acq: 01 May 2019 15:21

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1398612 |       |       |
| 179     | 15.8  | 12.2    | 18.4  |       |
| 176     | 18.5  | 15.1    | 22.7  |       |





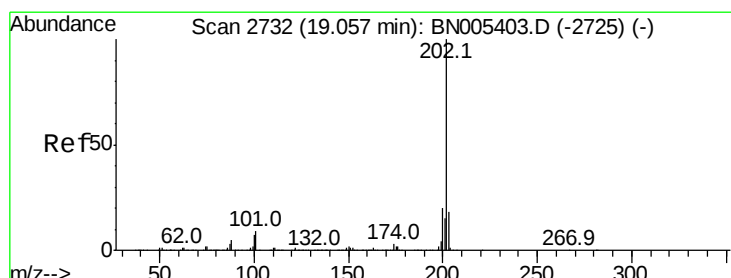
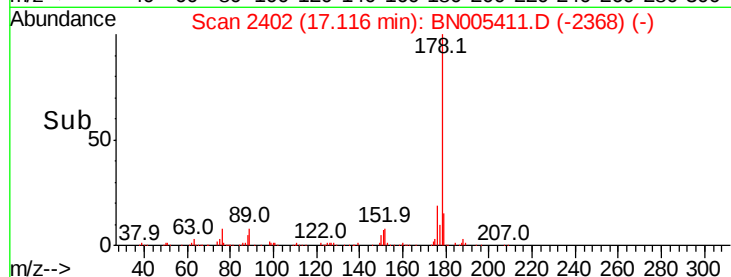
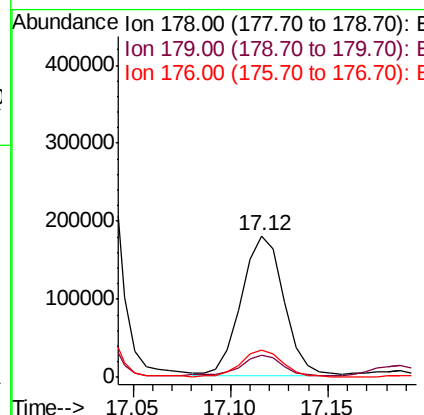
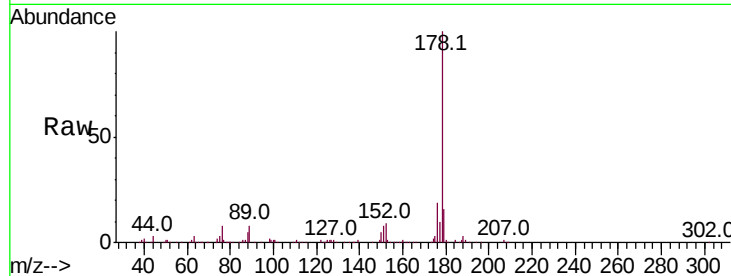
#71  
 Anthracene  
 Concen: 2.076 ng/ul  
 RT: 17.12 min Scan# 2402  
 Delta R.T. 0.00 min  
 Lab File: BN005411.D  
 Acq: 01 May 2019 15:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHW1MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.3  | 18.5  |
| 176     | 19.3  | 15.1  | 22.7  |

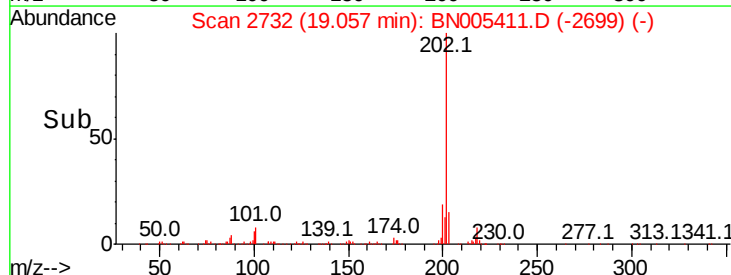
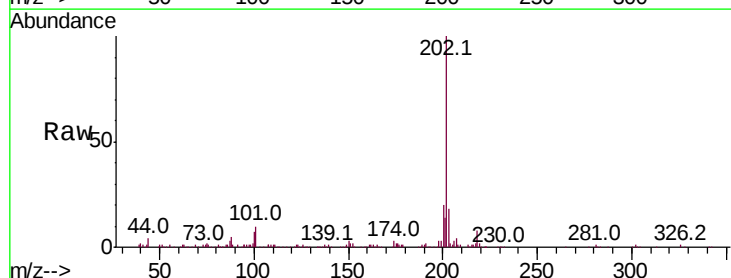
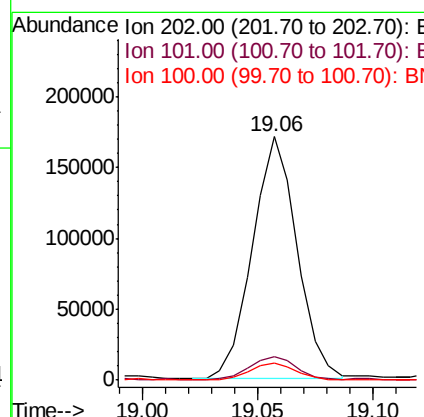
Manual Integrations  
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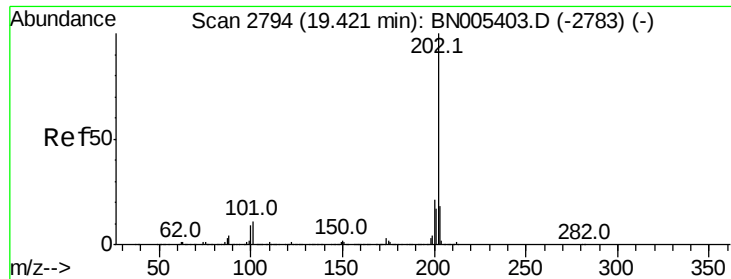
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#76  
 Fluoranthene  
 Concen: 1.611 ng/ul  
 RT: 19.06 min Scan# 2732  
 Delta R.T. -0.01 min  
 Lab File: BN005411.D  
 Acq: 01 May 2019 15:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.7   | 8.6   | 12.8  |
| 100     | 6.9   | 6.3   | 9.5   |





#79

Pvrene

Concen: 3.060 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BN005411.D

Acq: 01 May 2019 15:21

Instrument :

BNA\_N

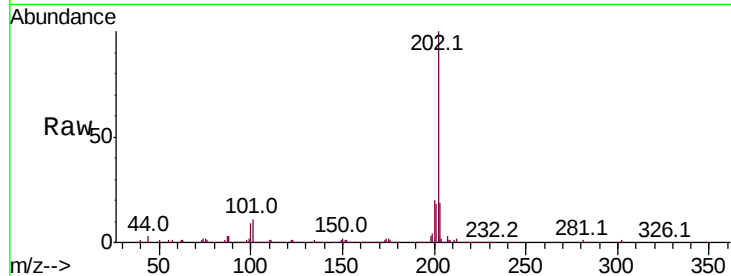
ClientSampleId :

GAHW1MEDL

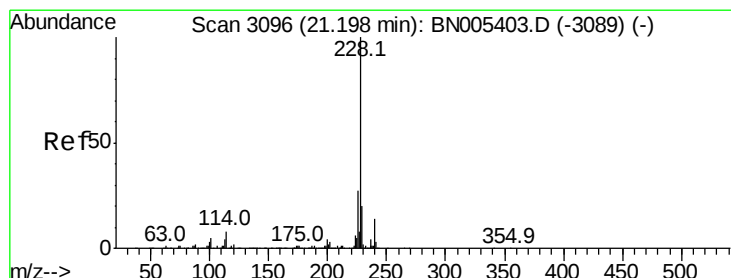
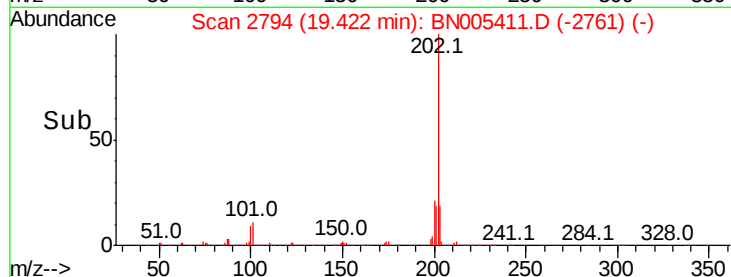
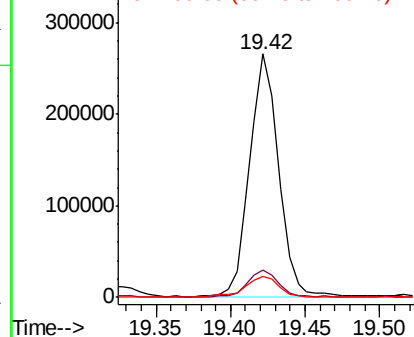
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|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 354335 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.0  | 10.3  | 15.5   |
| 100       | 8.5   | 7.9   | 11.9   |

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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): B



#82

Benzo(a)anthracene

Concen: 1.030 ng/ul m

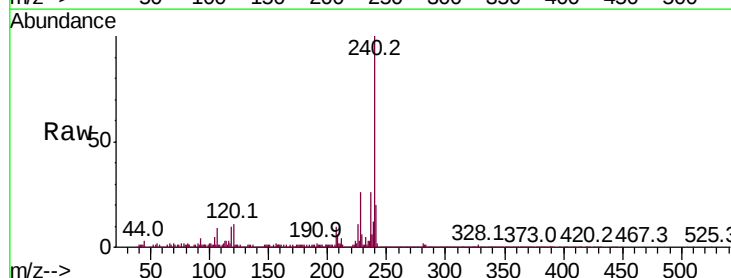
RT: 21.20 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BN005411.D

Acq: 01 May 2019 15:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 115237 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.8  | 15.8  | 23.6   |
| 226       | 41.9  | 21.4  | 32.2#  |



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E

