

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121319\  
 Data File : BN008981.D  
 Acq On : 13 Dec 2019 23:46  
 Operator : JU  
 Sample : K4649-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A5167

Manual Integrations  
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Quant Time: Dec 14 02:39:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 13 23:22:26 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.55  | 152  | 3092     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.31 | 136  | 13492    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.18 | 164  | 8783     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.92 | 188  | 20564    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.13 | 240  | 17876    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.27 | 264  | 15205m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.90 | 152  | 4351     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.96 | 212  | 13548    | 0.22   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.89 | 152  | 2040     | 0.042  | ng/ul# | 93       |
| 12) Phenanthrene            | 16.97 | 178  | 9192     | 0.133  | ng/ul  | 98       |
| 13) Anthracene              | 17.06 | 178  | 1823     | 0.028  | ng/ul# | 90       |
| 15) Fluoranthene            | 18.99 | 202  | 28938    | 0.340  | ng/ul  | 100      |
| 17) Pyrene                  | 19.35 | 202  | 27304    | 0.381  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.11 | 228  | 12022    | 0.167  | ng/ul  | 96       |
| 19) Chrysene                | 21.16 | 228  | 14102    | 0.200  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.64 | 252  | 18687m   | 0.298  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.68 | 252  | 6476m    | 0.104  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.18 | 252  | 11479    | 0.195  | ng/ul# | 92       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.38 | 276  | 7570     | 0.110  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.38 | 278  | 1726     | 0.031  | ng/ul# | 54       |
| 26) Benzo(g,h,i)perylene    | 26.02 | 276  | 7383     | 0.128  | ng/ul  | 97       |

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

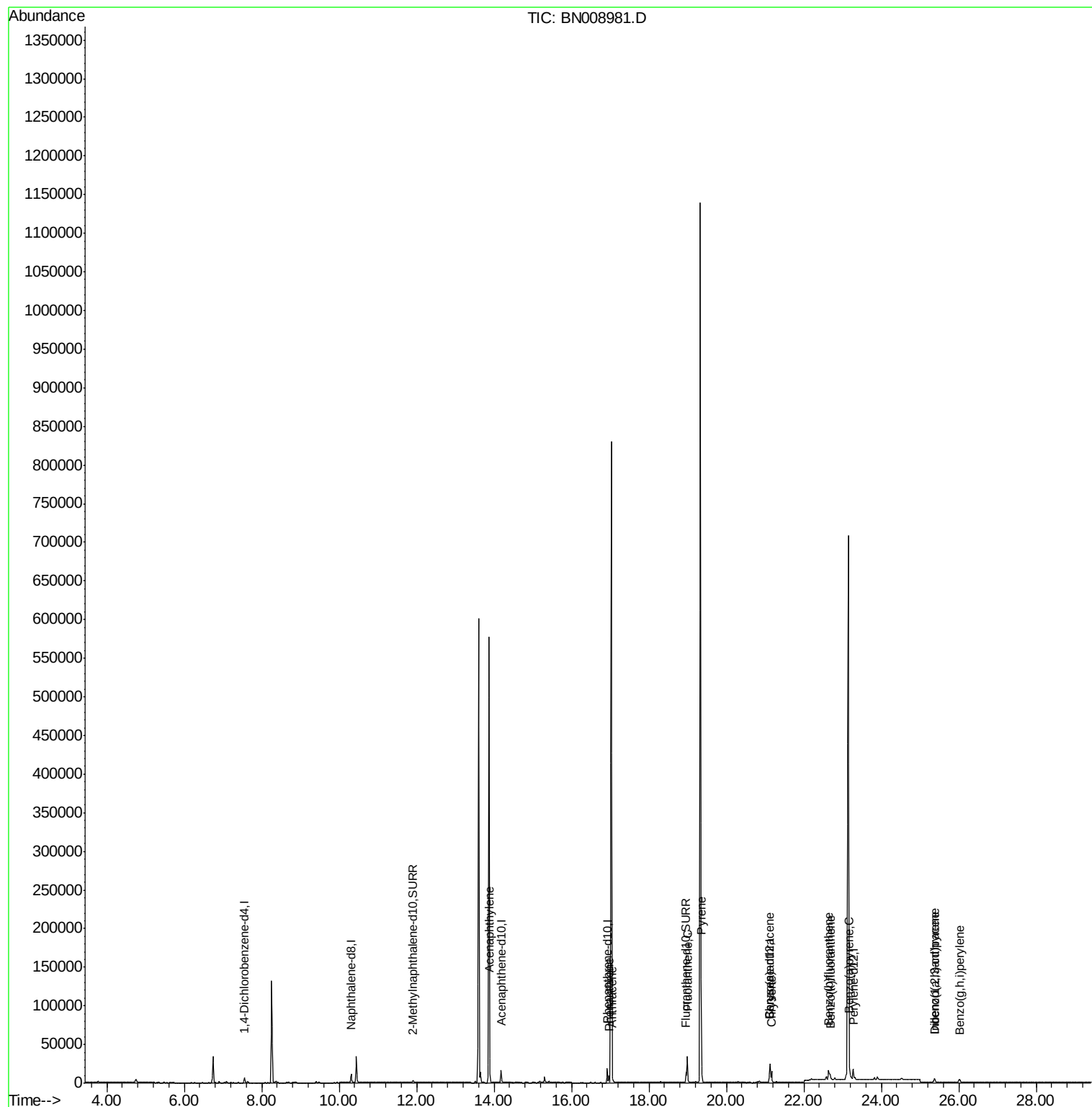
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121319\  
Data File : BN008981.D  
Acq On : 13 Dec 2019 23:46  
Operator : JU  
Sample : K4649-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

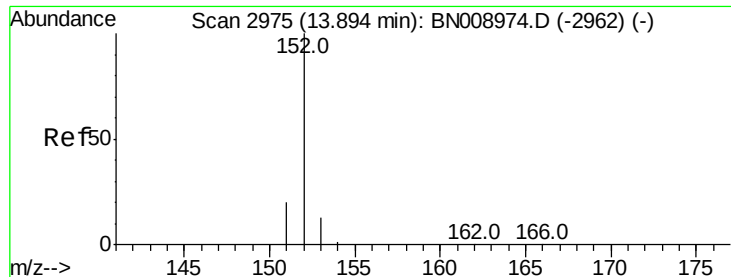
Instrument :  
BNA\_N  
ClientSampleId :  
A5167

Quant Time: Dec 14 02:39:23 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 13 23:22:26 2019  
Response via : Initial Calibration

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#7

Acenaphthylene

Concen: 0.042 ng/ul

RT: 13.89 min Scan# 2975

Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

Instrument :

BNA\_N

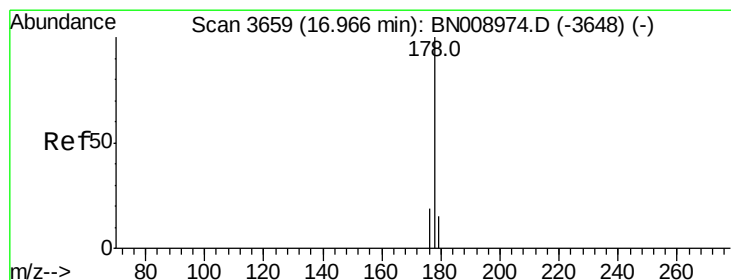
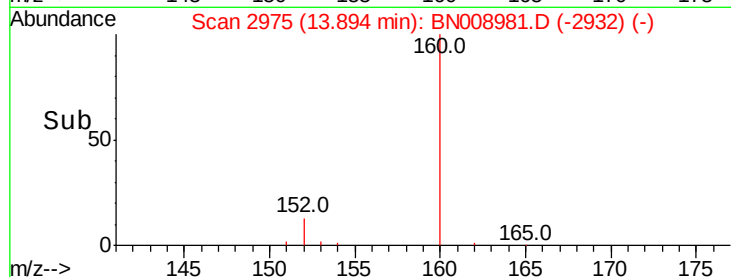
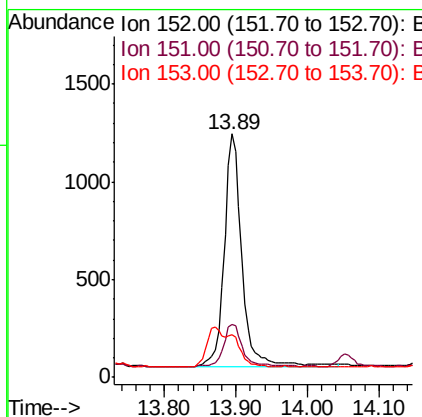
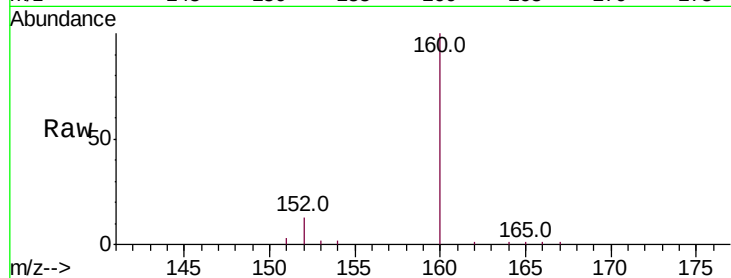
ClientSampleId :

A5167

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2040  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 21.8  | 15.8  | 23.6  |
| 153       | 17.3  | 10.6  | 15.8# |

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#12

Phenanthrene

Concen: 0.133 ng/ul

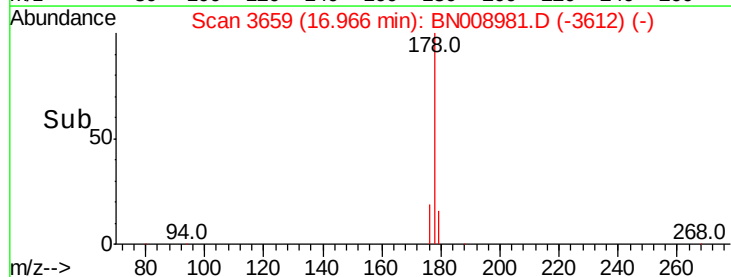
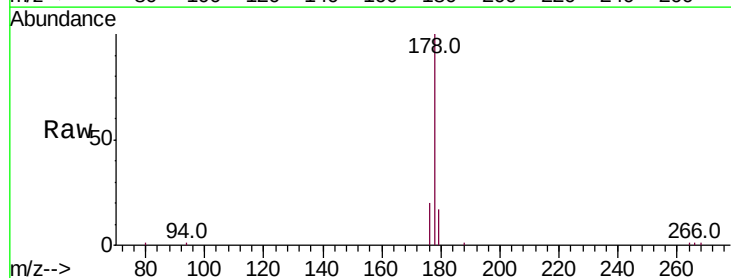
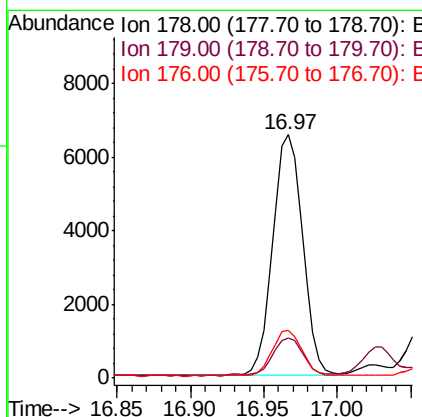
RT: 16.97 min Scan# 3659

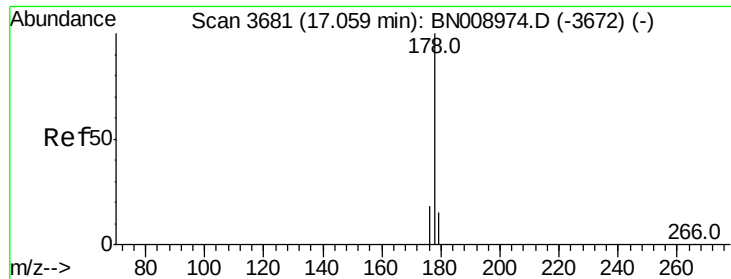
Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 9192 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.7  | 12.6  | 18.8 |
| 176       | 19.6  | 15.3  | 22.9 |





#13

Anthracene

Concen: 0.028 ng/ul

RT: 17.06 min Scan# 3681

Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

Instrument :

BNA\_N

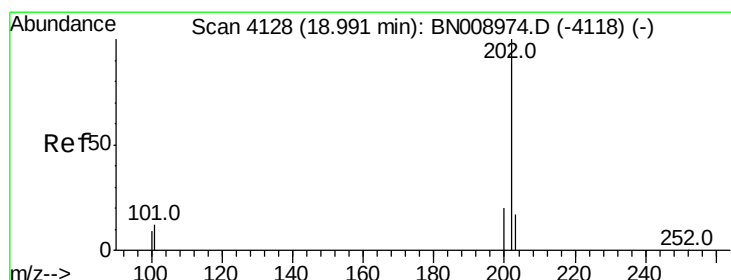
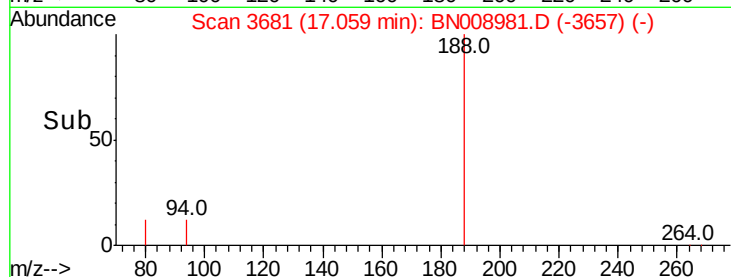
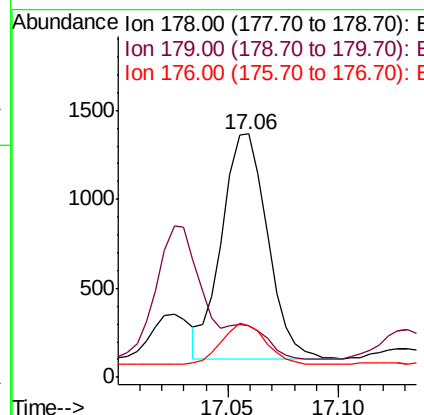
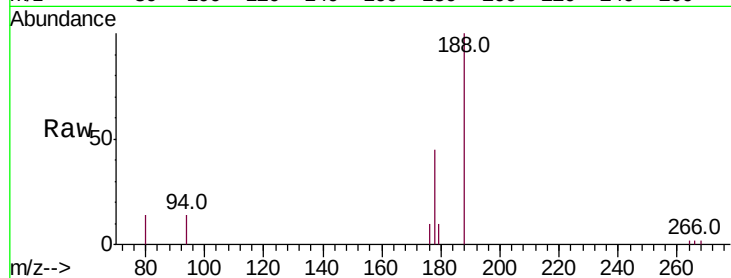
ClientSampleId :

A5167

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 21.2  | 12.2  | 18.4# |
| 176     | 21.0  | 14.7  | 22.1  |

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#15

Fluoranthene

Concen: 0.340 ng/ul

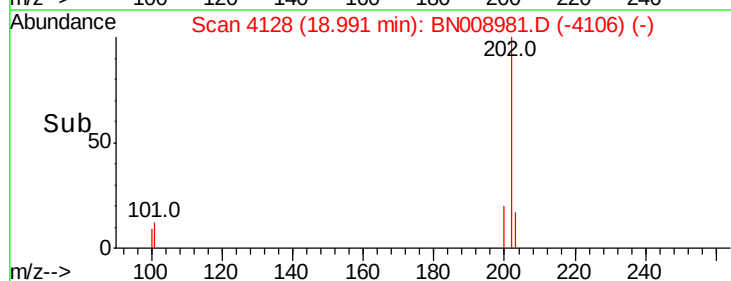
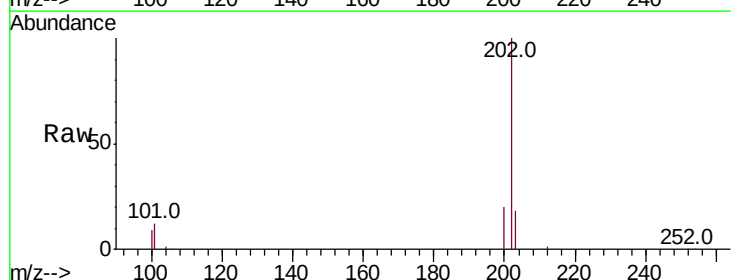
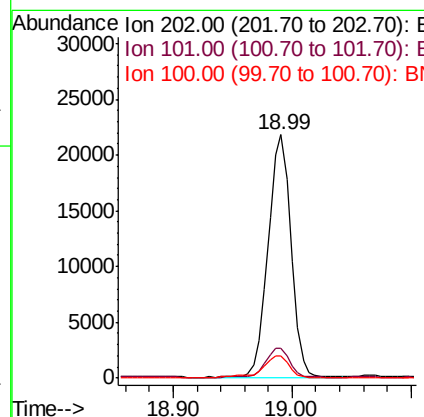
RT: 18.99 min Scan# 4128

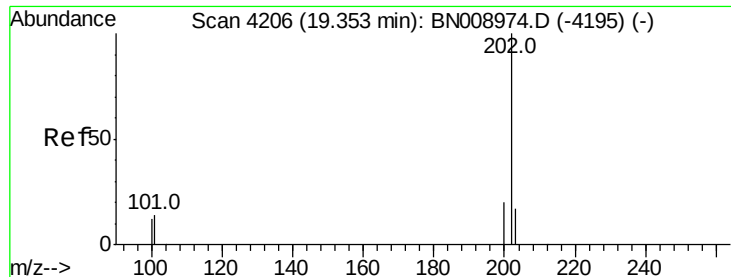
Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.2  | 0.0   | 32.4  |
| 100     | 9.1   | 0.0   | 29.2  |





#17

Pvrene

Concen: 0.381 ng/ul

RT: 19.35 min Scan# 4206

Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

Instrument :

BNA\_N

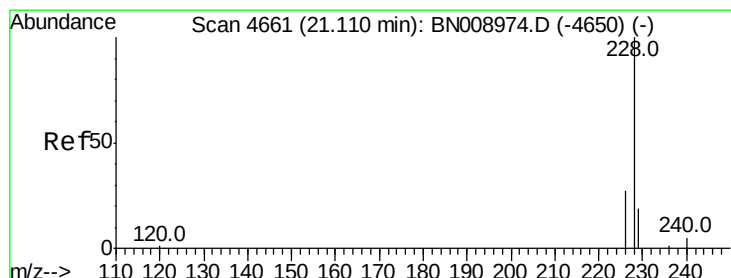
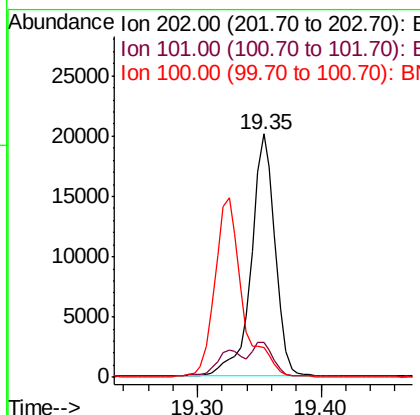
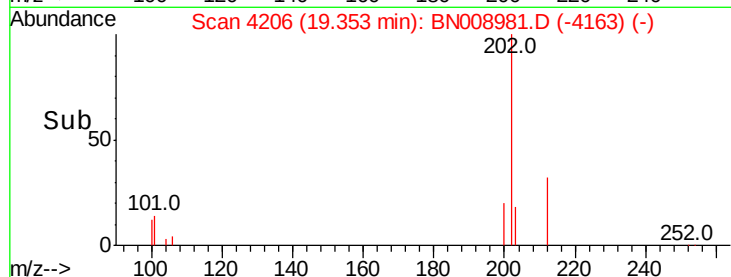
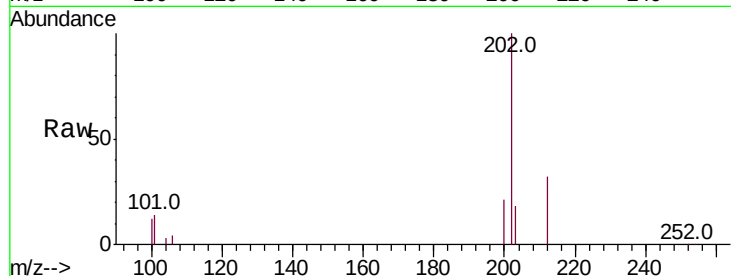
ClientSampleId :

A5167

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 27304 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.4  | 12.2  | 18.4  |
| 100       | 12.2  | 9.5   | 14.3  |

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#18

Benzo(a)anthracene

Concen: 0.167 ng/ul

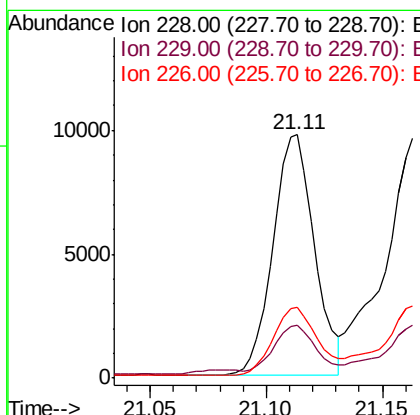
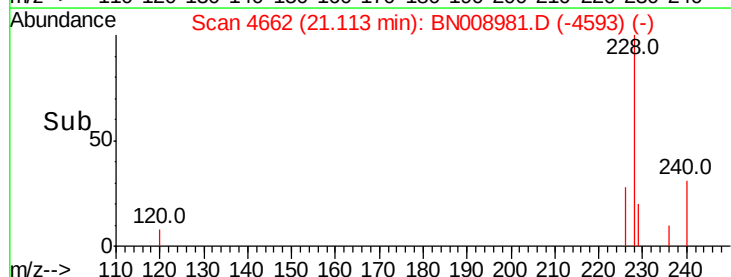
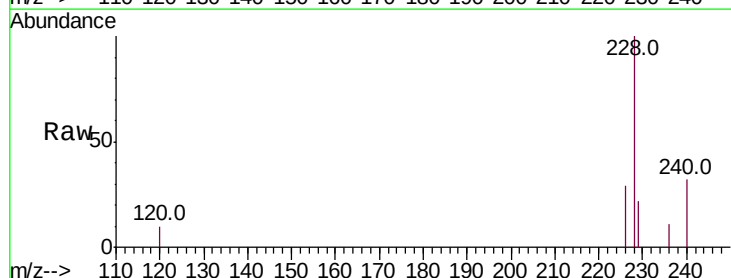
RT: 21.11 min Scan# 4662

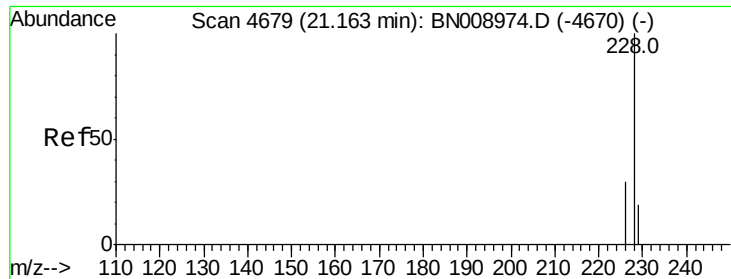
Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 12022 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.7  | 15.7  | 23.5  |
| 226       | 29.1  | 21.5  | 32.3  |





#19

Chrysene

Concen: 0.200 ng/ul

RT: 21.16 min Scan# 4679

Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

Instrument :

BNA\_N

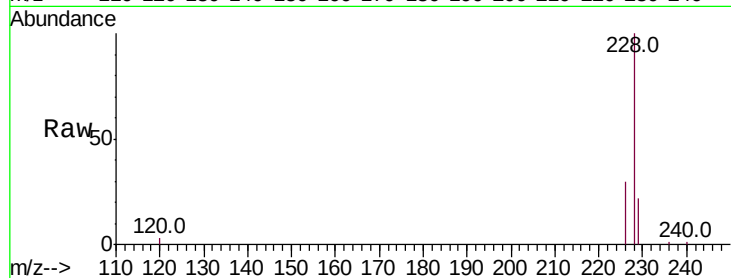
ClientSampleId :

A5167

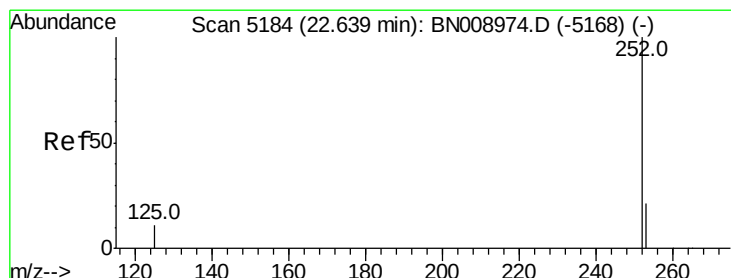
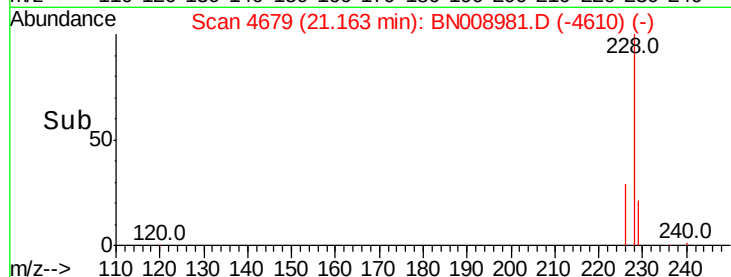
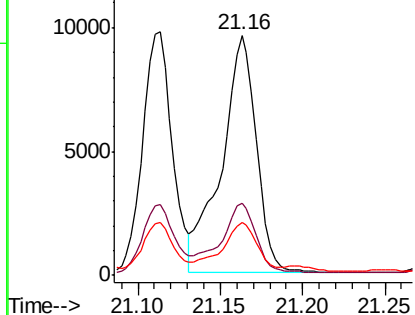
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 14102 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.8  | 23.8  | 35.6  |
| 229       | 21.8  | 15.6  | 23.4  |

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



#21

Benzo(b)fluoranthene

Concen: 0.298 ng/ul m

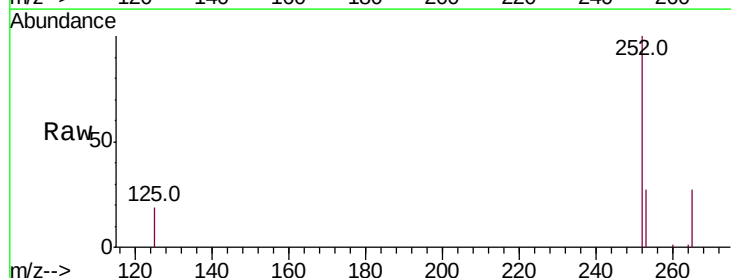
RT: 22.64 min Scan# 5184

Delta R.T. 0.00 min

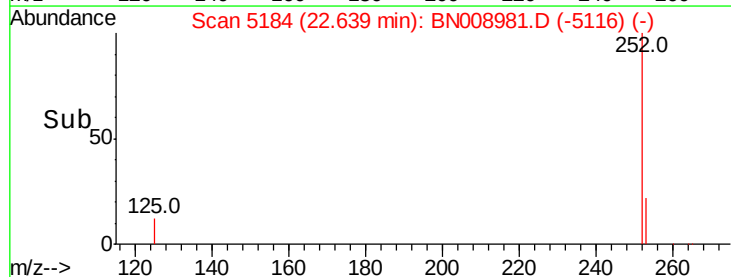
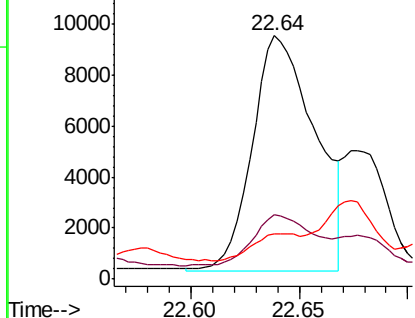
Lab File: BN008981.D

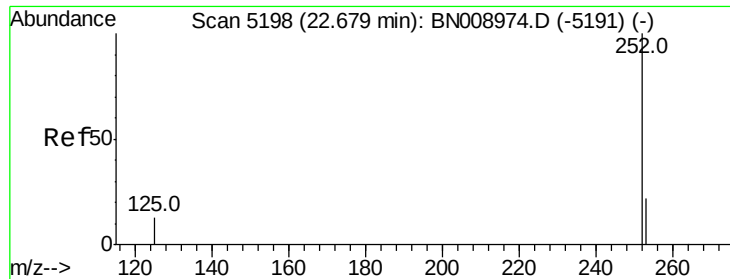
Acq: 13 Dec 2019 23:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 18687 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.5  | 0.0   | 48.6  |
| 125       | 18.8  | 0.0   | 31.6  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





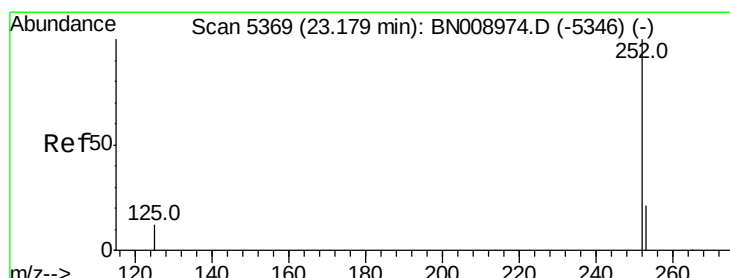
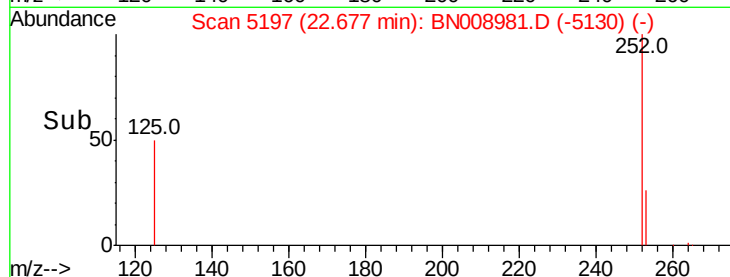
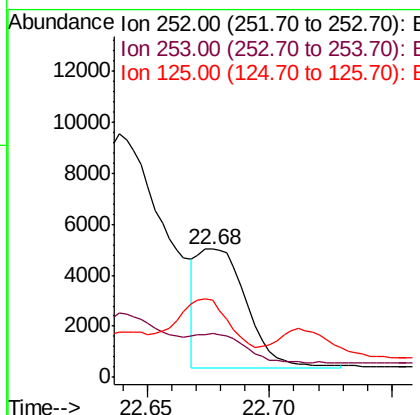
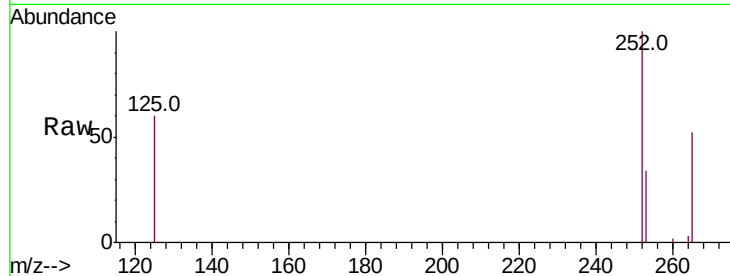
#22  
Benzo(k)fluoranthene  
Concen: 0.104 ng/ul  
RT: 22.68 min Scan# 5197  
Delta R.T. -0.00 min  
Lab File: BN008981.D  
Acq: 13 Dec 2019 23:46

Instrument :  
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ClientSampleId :  
A5167

Tot Ion:252 Resp: 6476  
Ion Ratio Lower Upper  
252 100  
253 34.1 19.6 29.4#  
125 60.2 13.8 20.6#

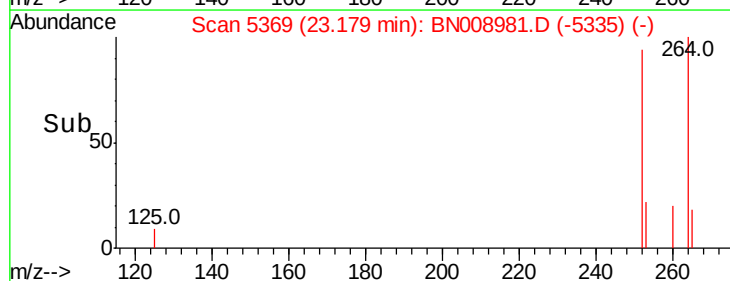
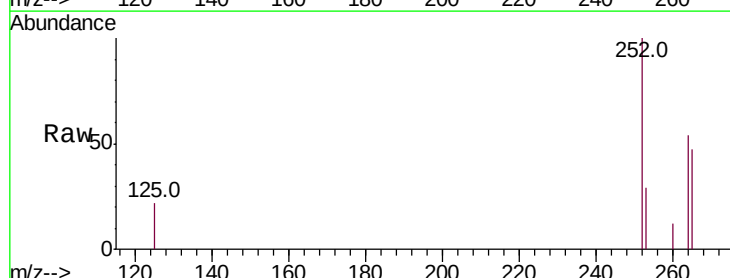
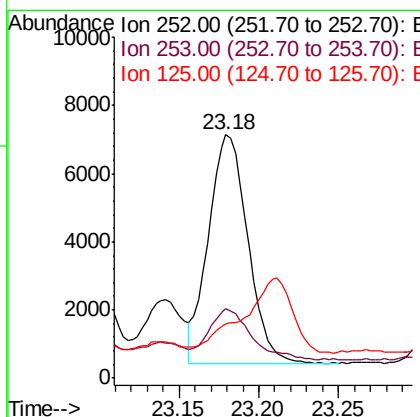
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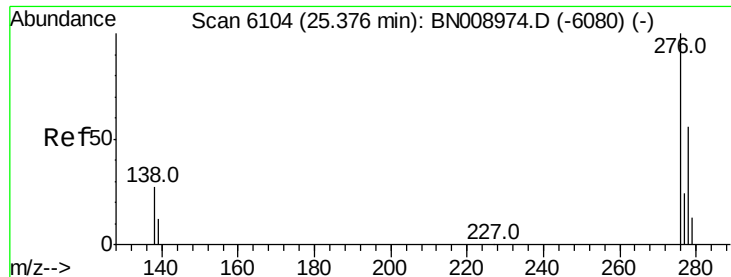
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#23  
Benzo(a)pyrene  
Concen: 0.195 ng/ul  
RT: 23.18 min Scan# 5369  
Delta R.T. 0.00 min  
Lab File: BN008981.D  
Acq: 13 Dec 2019 23:46

Tgt Ion:252 Resp: 11479  
Ion Ratio Lower Upper  
252 100  
253 28.5 19.9 29.9  
125 22.3 14.6 22.0#





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.110 ng/ul

RT: 25.38 min Scan# 6104

Delta R.T. 0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

Instrument :

BNA\_N

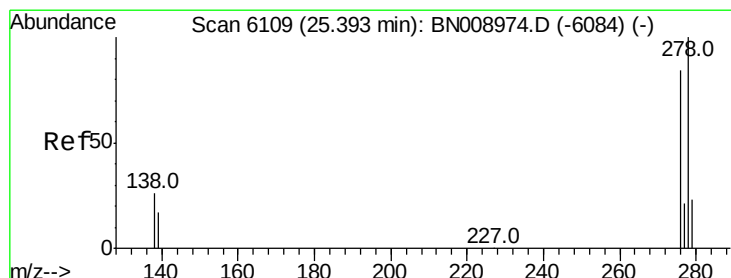
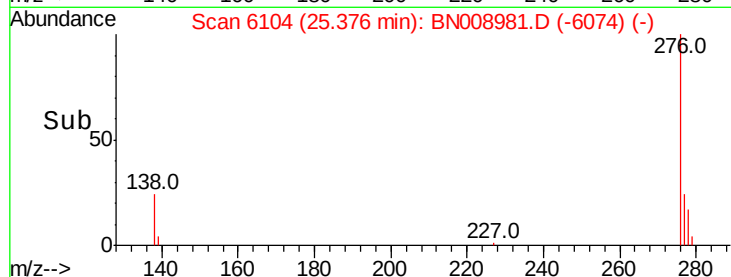
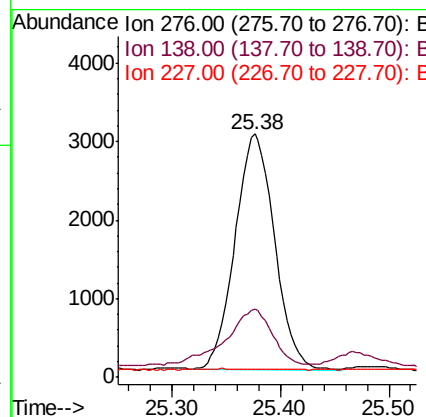
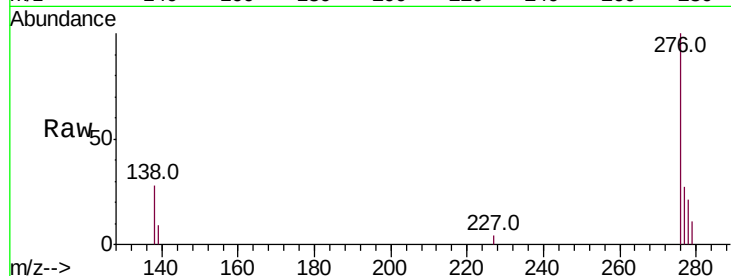
ClientSampleId :

A5167

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 7570 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 28.7  | 23.8  | 35.6 |
| 227       | 0.0   | 0.2   | 0.2# |

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#25

Dibenzo(a,h)anthracene

Concen: 0.031 ng/ul

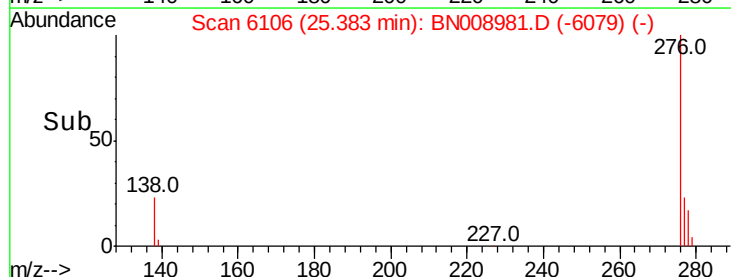
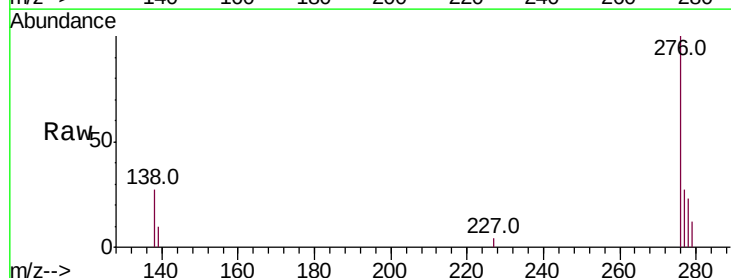
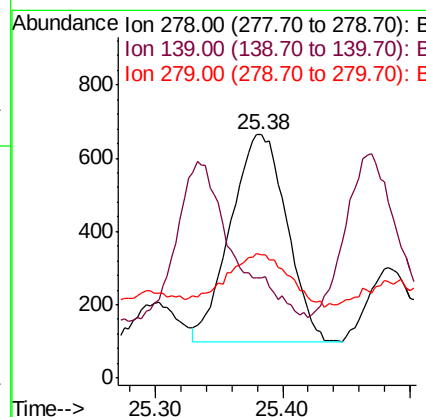
RT: 25.38 min Scan# 6106

Delta R.T. -0.01 min

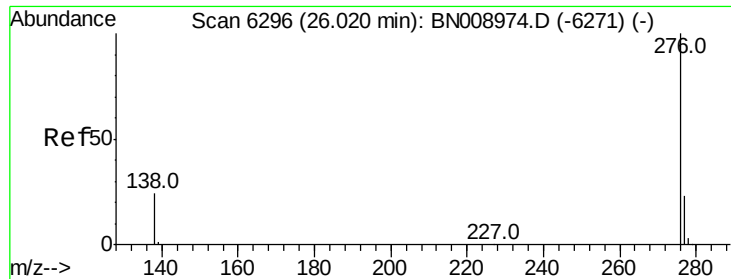
Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 1726  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 41.1  | 17.4  | 26.0# |
| 279       | 50.9  | 20.5  | 30.7# |







#26

Benzo(a,h,i)perylene

Concen: 0.128 ng/ul

RT: 26.02 min Scan# 6295

Delta R.T. -0.00 min

Lab File: BN008981.D

Acq: 13 Dec 2019 23:46

Instrument :

BNA\_N

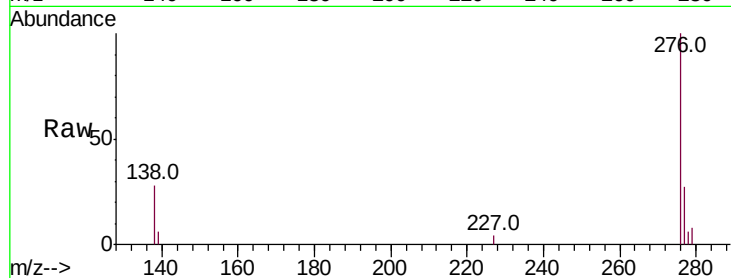
ClientSampleId :

A5167

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 7383 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 27.8  | 21.9  | 32.9 |
| 277       | 27.2  | 19.9  | 29.9 |

Manual Integrations  
APPROVED

mohammad  
12/16/2019 12:24:15 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

