

Data File : BN008986.D  
Acq On : 14 Dec 2019 02:46  
Operator : JU  
Sample : PB-BS WATER  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SLCS046

Quant Time: Dec 16 00:51:11 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 : Mon Dec 16 00:48:46 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 2565     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.31 | 136  | 11098    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.18 | 164  | 7402     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.92 | 188  | 16453    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.13 | 240  | 13066    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.27 | 264  | 10670    | 0.40 | ng/ul | 0.00     |

|                             |       |     |       |      |       |      |
|-----------------------------|-------|-----|-------|------|-------|------|
| System Monitoring Compounds |       |     |       |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 11.90 | 152 | 7787  | 0.43 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 18.96 | 212 | 19634 | 0.39 | ng/ul | 0.00 |

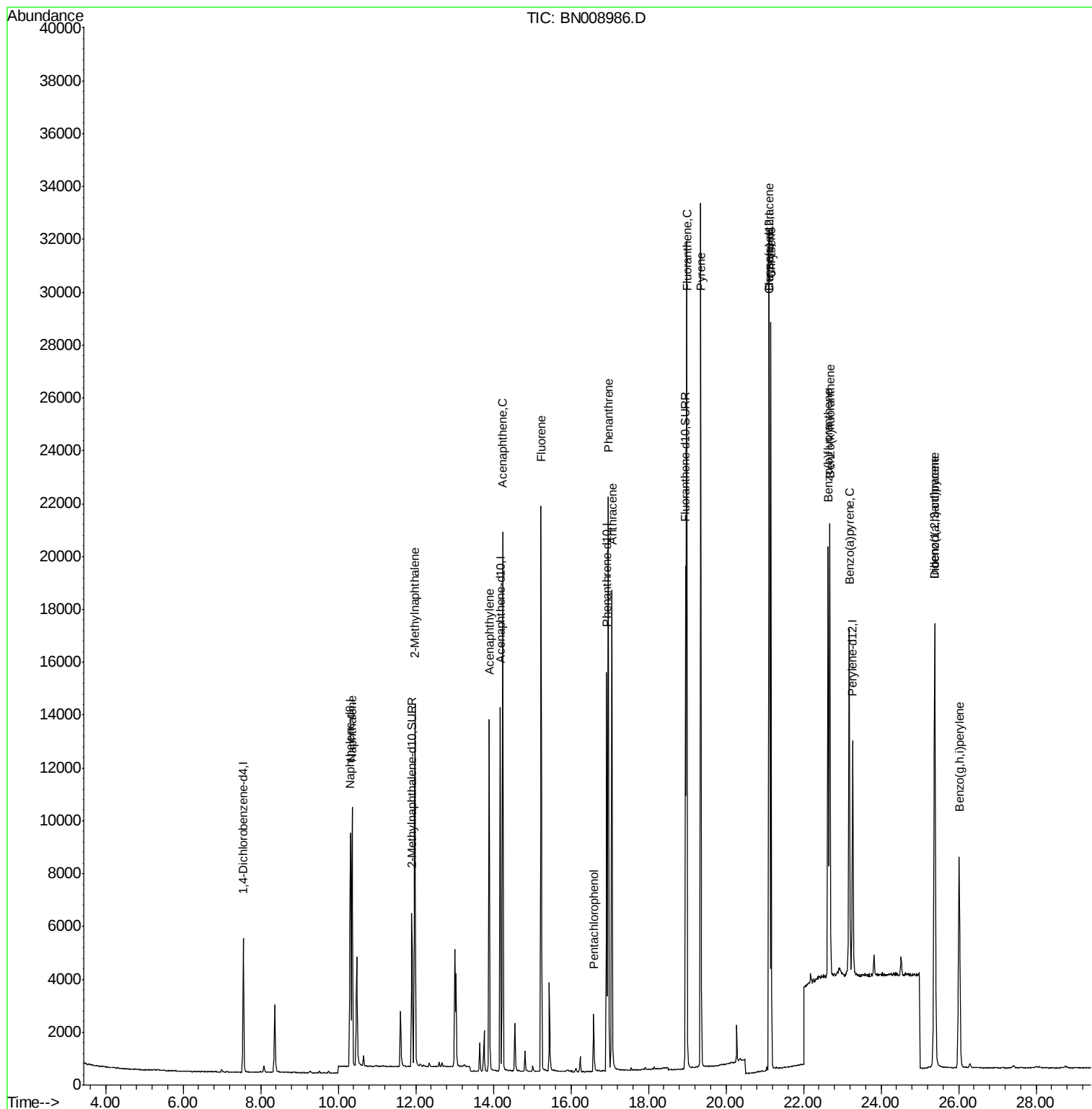
|                            |       |     |       |        |        |     |
|----------------------------|-------|-----|-------|--------|--------|-----|
| Target Compounds           |       |     |       | Qvalue |        |     |
| 3) Naphthalene             | 10.36 | 128 | 13379 | 0.400  | ng/ul  | 100 |
| 5) 2-Methylnaphthalene     | 11.98 | 142 | 9990  | 0.428  | ng/ul  | 100 |
| 7) Acenaphthylene          | 13.89 | 152 | 14747 | 0.360  | ng/ul  | 100 |
| 8) Acenaphthene            | 14.24 | 153 | 11437 | 0.377  | ng/ul  | 99  |
| 9) Fluorene                | 15.24 | 166 | 13428 | 0.377  | ng/ul  | 99  |
| 11) Pentachlorophenol      | 16.59 | 266 | 1640  | 0.263  | ng/ul  | 100 |
| 12) Phenanthrene           | 16.97 | 178 | 22682 | 0.409  | ng/ul  | 99  |
| 13) Anthracene             | 17.06 | 178 | 20507 | 0.391  | ng/ul  | 100 |
| 15) Fluoranthene           | 18.99 | 202 | 26031 | 0.382  | ng/ul  | 99  |
| 17) Pyrene                 | 19.35 | 202 | 26062 | 0.497  | ng/ul  | 98  |
| 18) Benzo(a)anthracene     | 21.11 | 228 | 23743 | 0.452  | ng/ul  | 99  |
| 19) Chrysene               | 21.16 | 228 | 23326 | 0.452  | ng/ul  | 100 |
| 21) Benzo(b)fluoranthene   | 22.64 | 252 | 19852 | 0.451  | ng/ul  | 99  |
| 22) Benzo(k)fluoranthene   | 22.68 | 252 | 19623 | 0.450  | ng/ul  | 99  |
| 23) Benzo(a)pyrene         | 23.18 | 252 | 17384 | 0.421  | ng/ul  | 98  |
| 24) Indeno(1,2,3-cd)pyrene | 25.38 | 276 | 17835 | 0.369  | ng/ul# | 98  |
| 25) Dibenzo(a,h)anthracene | 25.39 | 278 | 14383 | 0.369  | ng/ul  | 98  |
| 26) Benzo(g,h,i)perylene   | 26.01 | 276 | 14809 | 0.367  | ng/ul  | 98  |

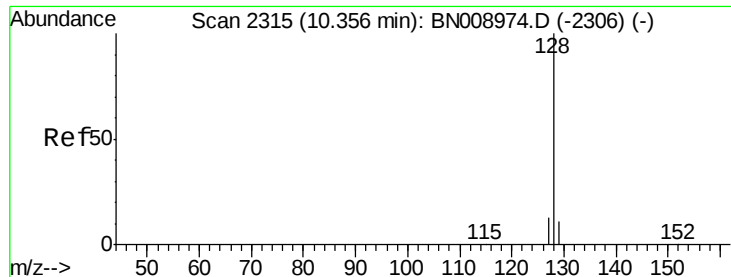
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.400 ng/ul

RT: 10.36 min Scan# 2315

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

Instrument :

BNA\_N

ClientSampleId :

SLCS046

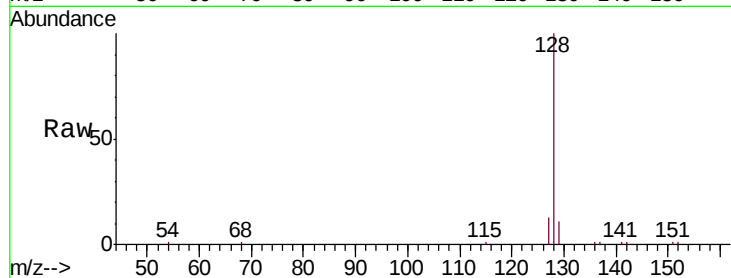
Tgt Ion:128 Resp: 13379

Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

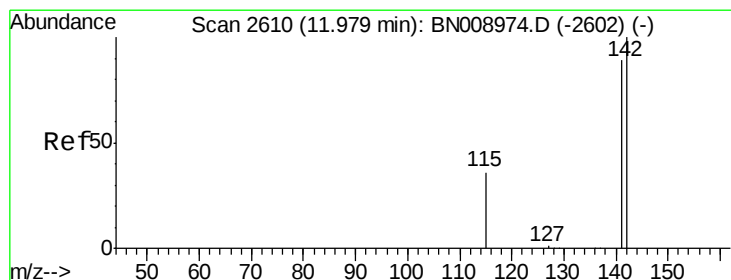
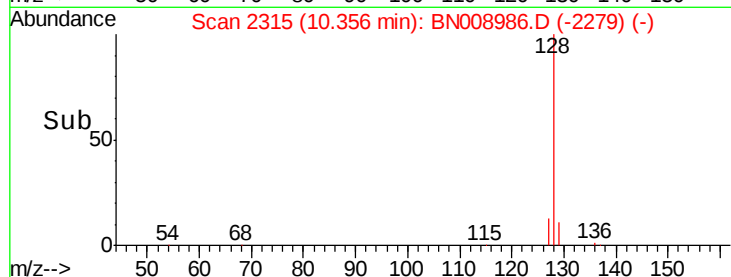
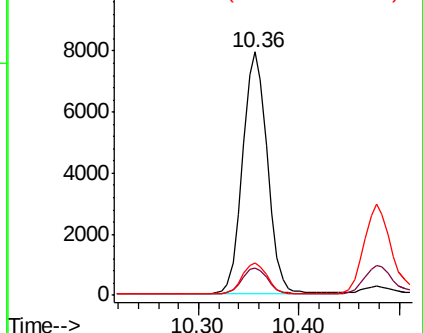
127 13.5 10.7 16.1



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: 0.428 ng/ul

RT: 11.98 min Scan# 2610

Delta R.T. -0.00 min

Lab File: BN008986.D

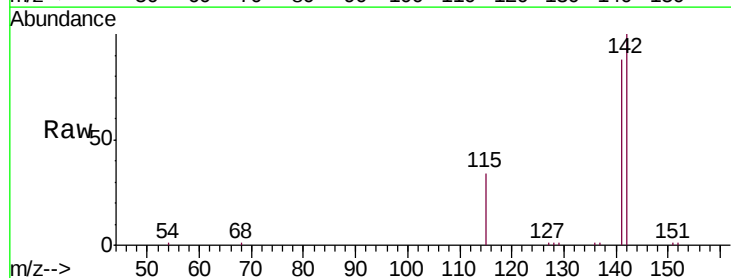
Acq: 14 Dec 2019 02:46

Tgt Ion:142 Resp: 9990

Ion Ratio Lower Upper

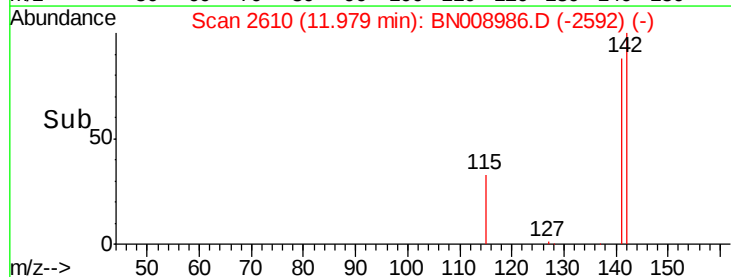
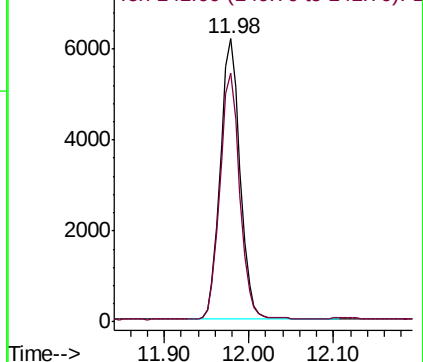
142 100

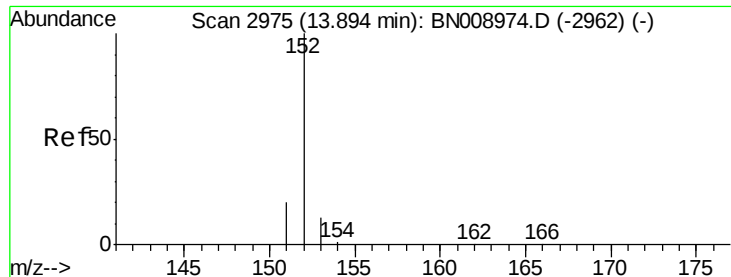
141 88.0 70.1 105.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.360 ng/ul

RT: 13.89 min Scan# 2975

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

Instrument :

BNA\_N

ClientSampleId :

SLCS046

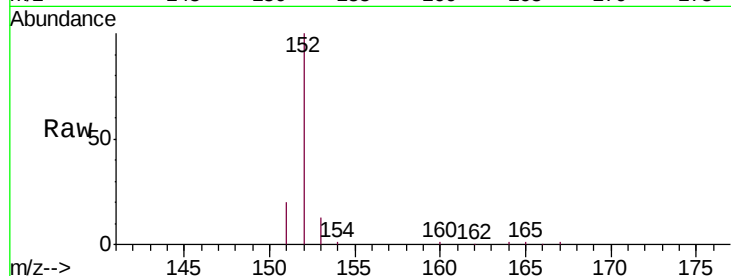
Tgt Ion:152 Resp: 14747

Ion Ratio Lower Upper

152 100

151 19.6 15.8 23.6

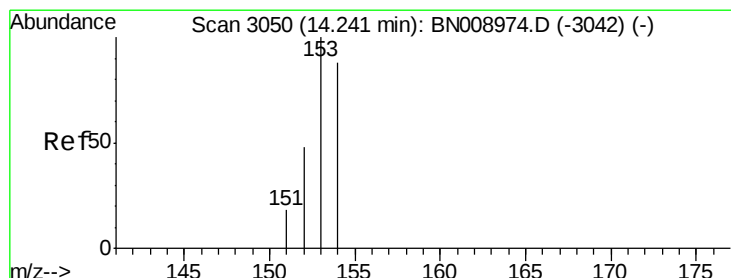
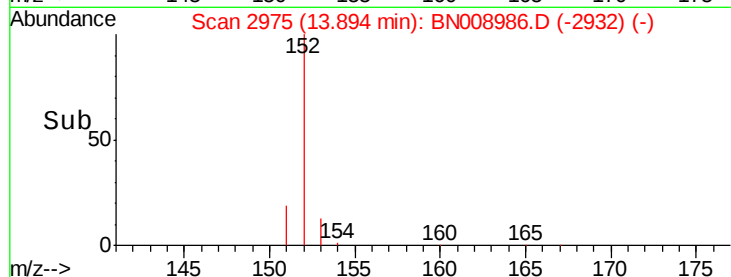
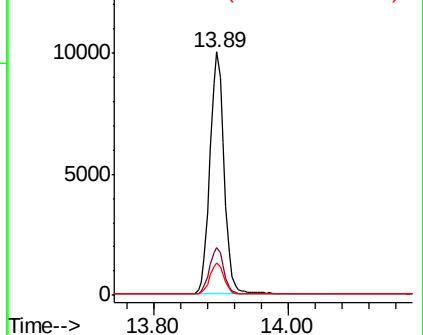
153 13.4 10.6 15.8



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



#8

Acenaphthene

Concen: 0.377 ng/ul

RT: 14.24 min Scan# 3050

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

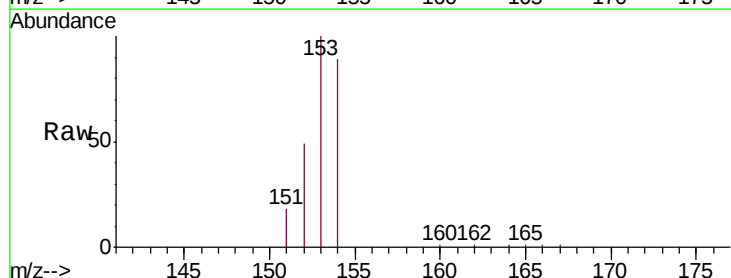
Tgt Ion:153 Resp: 11437

Ion Ratio Lower Upper

153 100

152 49.2 38.6 58.0

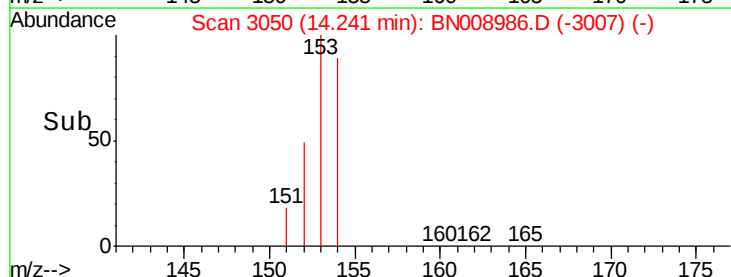
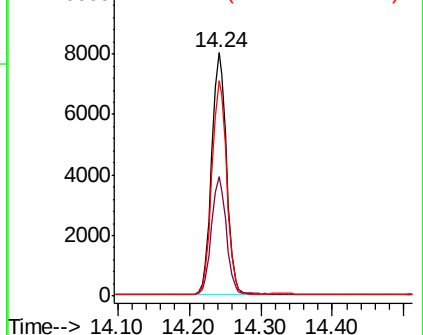
154 88.7 70.6 105.8

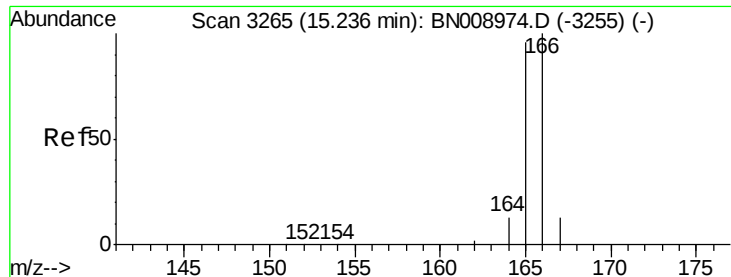


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.377 ng/ul

RT: 15.24 min Scan# 3265

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

Instrument :

BNA\_N

ClientSampleId :

SLCS046

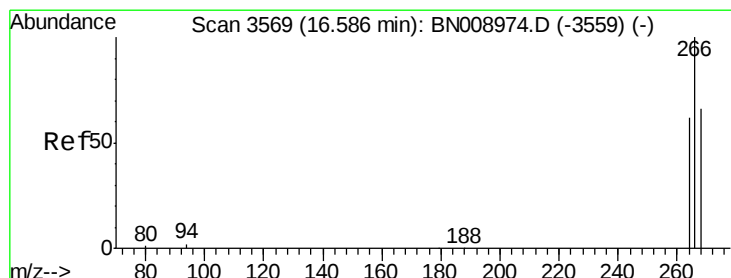
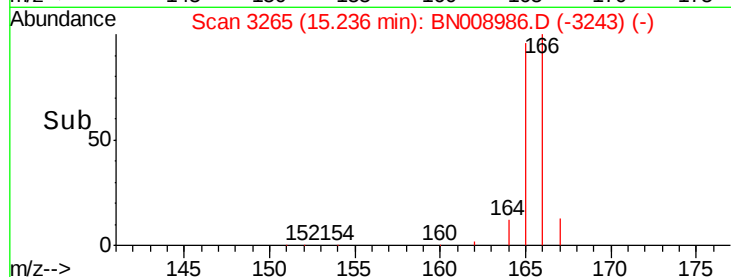
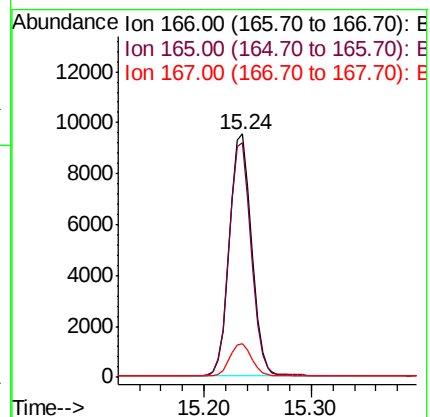
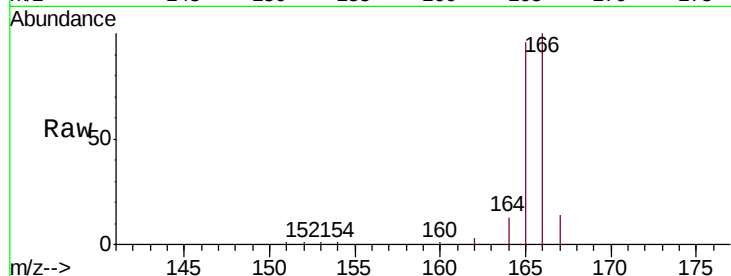
Tgt Ion:166 Resp: 13428

Ion Ratio Lower Upper

166 100

165 96.2 77.7 116.5

167 13.8 11.1 16.7



#11

Pentachlorophenol

Concen: 0.263 ng/ul

RT: 16.59 min Scan# 3569

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

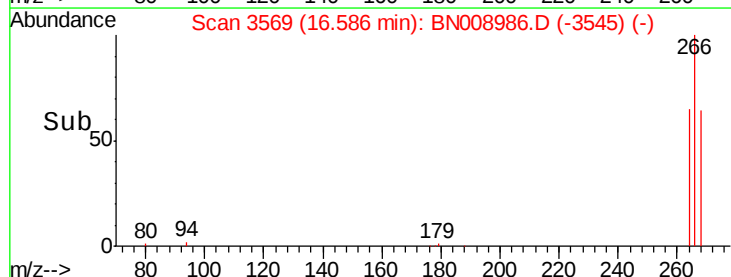
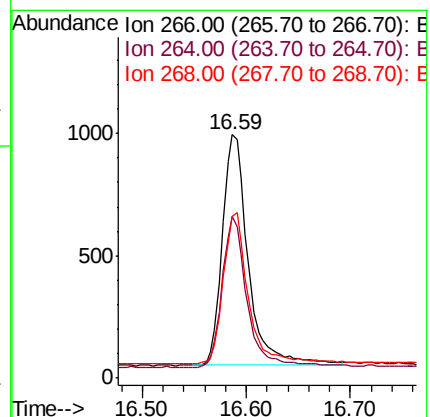
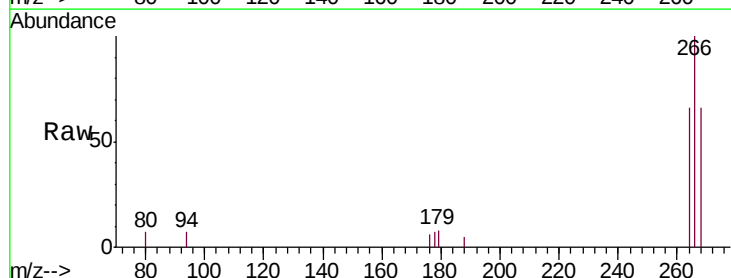
Tgt Ion:266 Resp: 1640

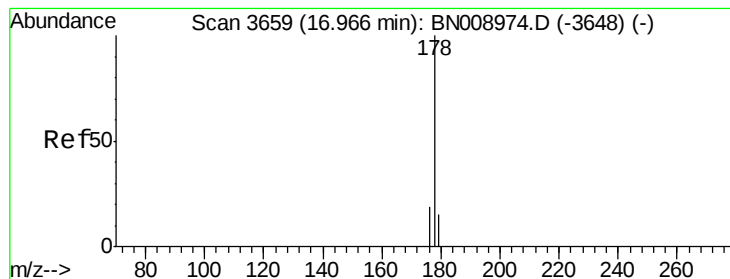
Ion Ratio Lower Upper

266 100

264 63.0 50.4 75.6

268 64.7 52.2 78.4





#12

Phenanthrene

Concen: 0.409 ng/ul

RT: 16.97 min Scan# 3659

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

Instrument :

BNA\_N

ClientSampleId :

SLCS046

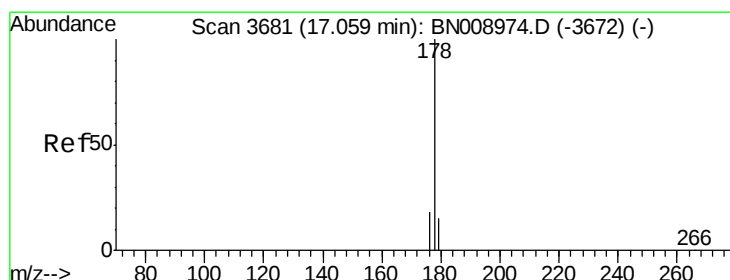
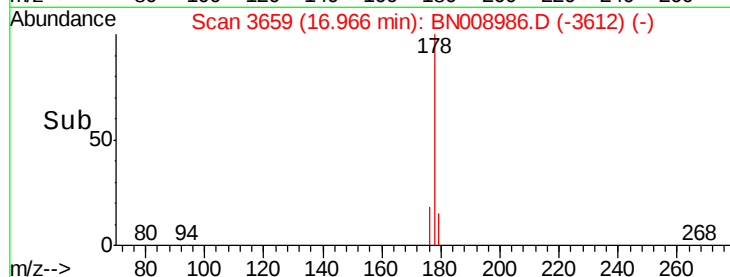
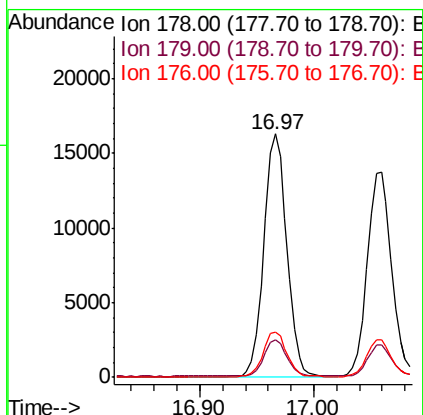
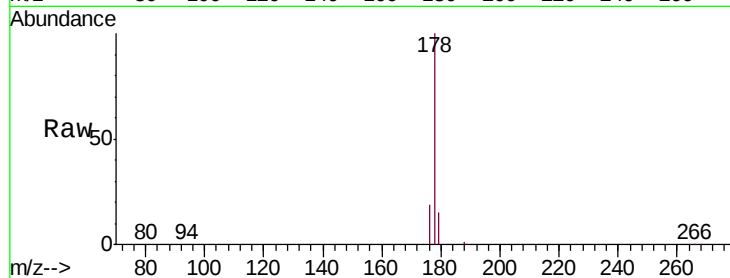
Tgt Ion:178 Resp: 22682

Ion Ratio Lower Upper

178 100

179 15.4 12.6 18.8

176 18.6 15.3 22.9



#13

Anthracene

Concen: 0.391 ng/ul

RT: 17.06 min Scan# 3681

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

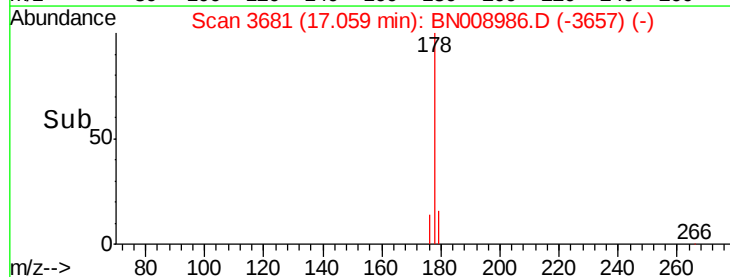
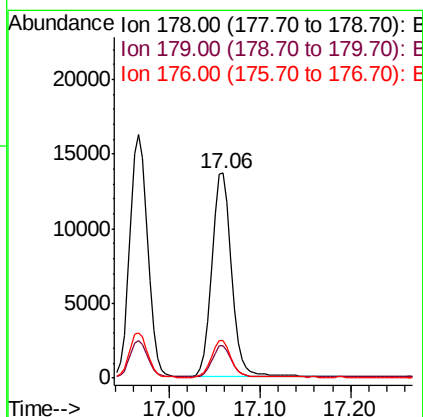
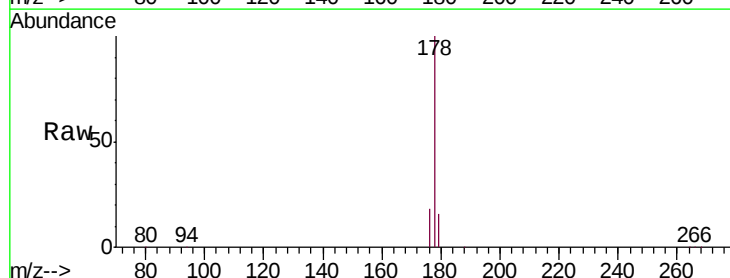
Tgt Ion:178 Resp: 20507

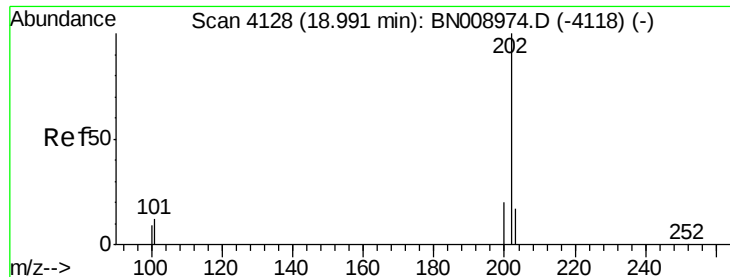
Ion Ratio Lower Upper

178 100

179 15.7 12.2 18.4

176 18.4 14.7 22.1





#15

Fluoranthene

Concen: 0.382 ng/ul

RT: 18.99 min Scan# 4128

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

Instrument :

BNA\_N

ClientSampleId :

SLCS046

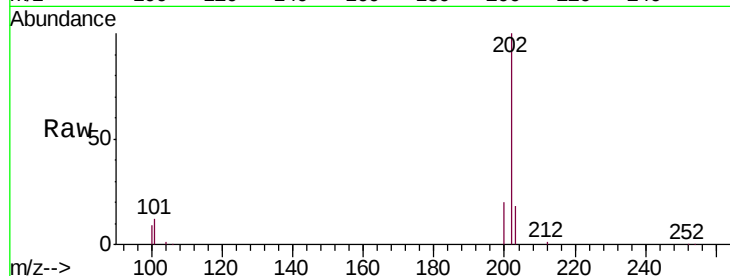
Tgt Ion:202 Resp: 26031

Ion Ratio Lower Upper

202 100

101 12.0 0.0 32.4

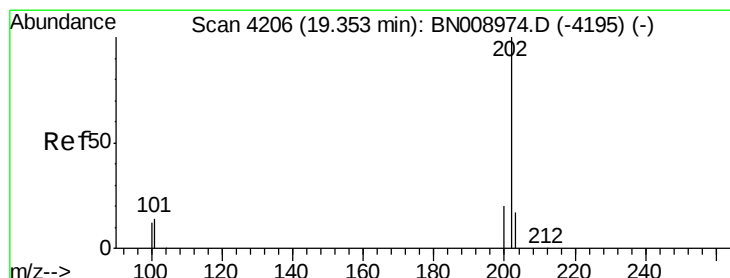
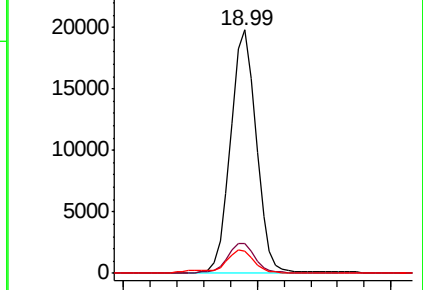
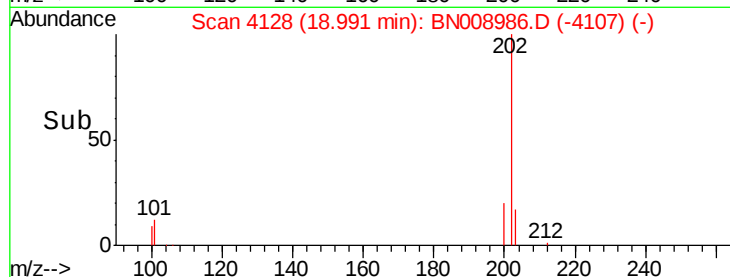
100 9.0 0.0 29.2



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



#17

Pyrene

Concen: 0.497 ng/ul

RT: 19.35 min Scan# 4206

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

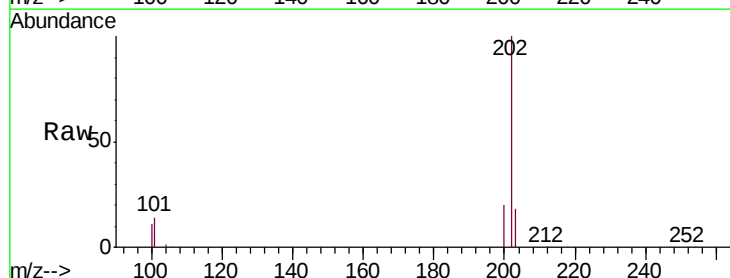
Tgt Ion:202 Resp: 26062

Ion Ratio Lower Upper

202 100

101 14.5 12.2 18.4

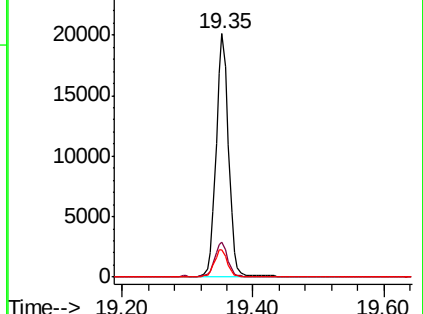
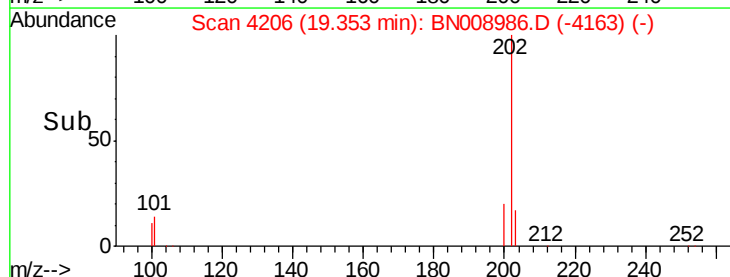
100 11.4 9.5 14.3

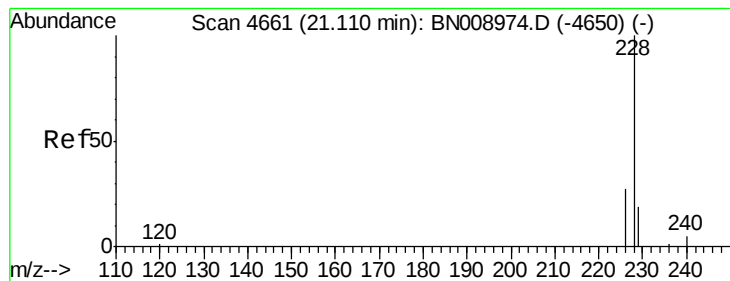


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#18

Benzo(a)anthracene

Concen: 0.452 ng/ul

RT: 21.11 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BN008986.D

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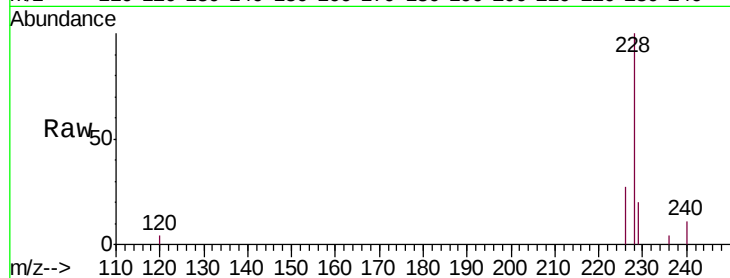
Tgt Ion:228 Resp: 23743

Ion Ratio Lower Upper

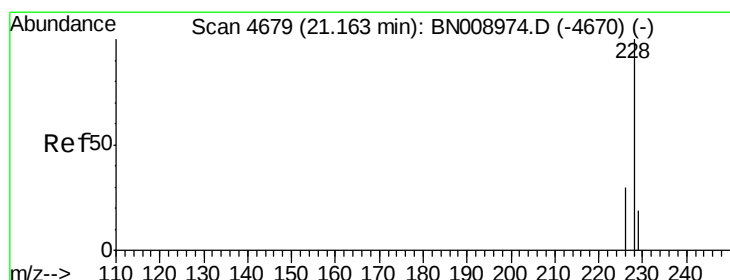
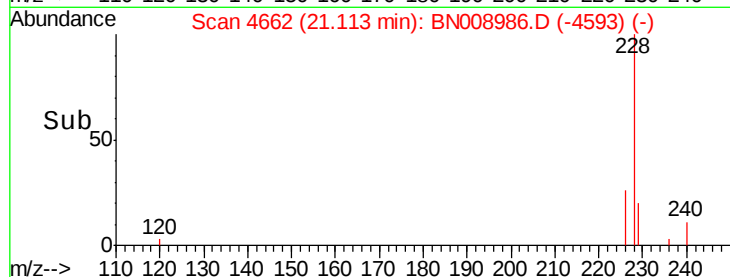
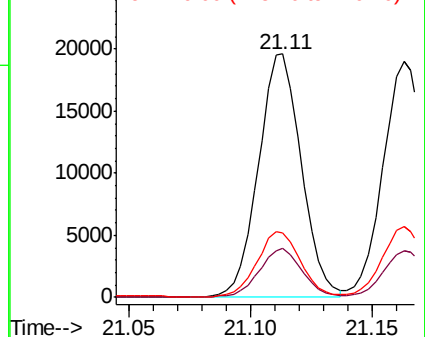
228 100

229 19.9 15.7 23.5

226 26.6 21.5 32.3



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



#19

Chrysene

Concen: 0.452 ng/ul

RT: 21.16 min Scan# 4679

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

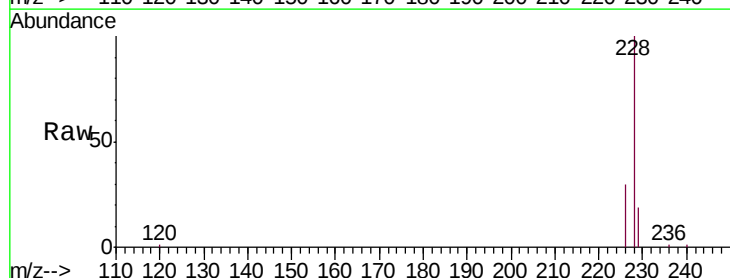
Tgt Ion:228 Resp: 23326

Ion Ratio Lower Upper

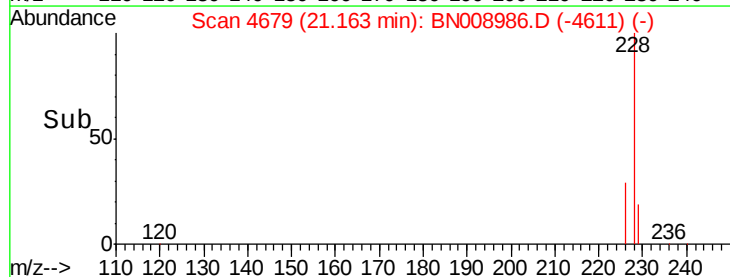
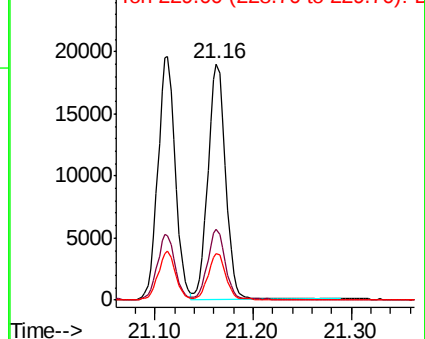
228 100

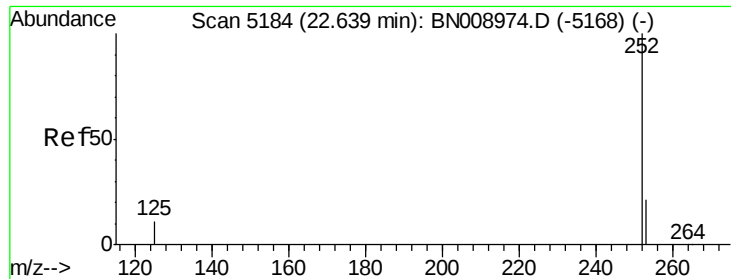
226 29.7 23.8 35.6

229 19.5 15.6 23.4



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: 0.451 ng/ul

RT: 22.64 min Scan# 5184

Delta R.T. -0.00 min

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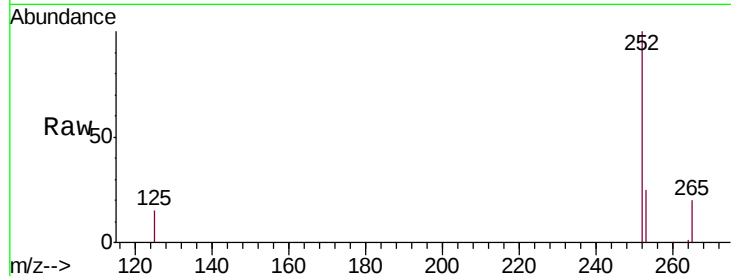
Tgt Ion:252 Resp: 19852

Ion Ratio Lower Upper

252 100

253 24.8 0.0 48.6

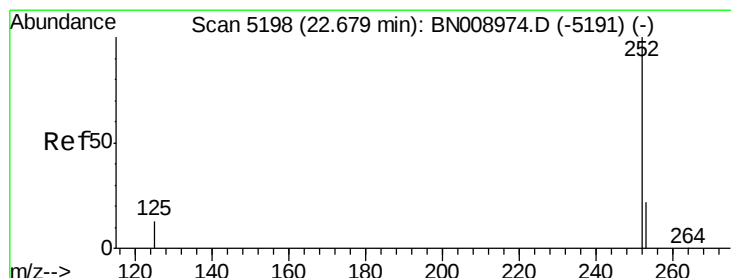
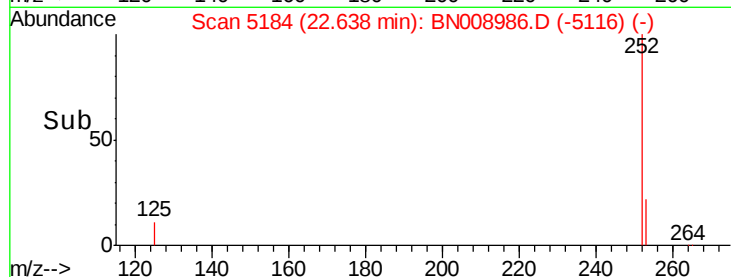
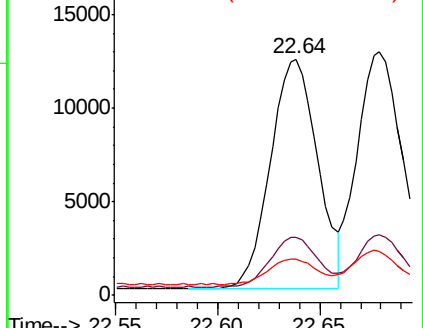
125 15.4 0.0 31.6



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: 0.450 ng/ul

RT: 22.68 min Scan# 5198

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

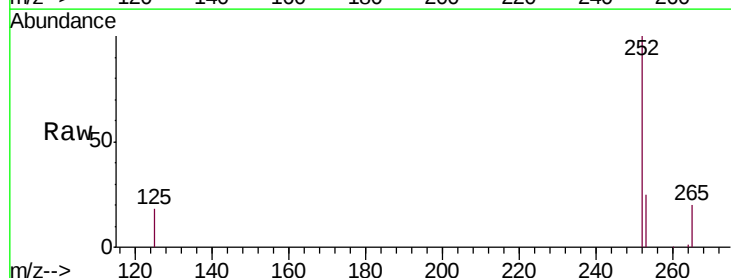
Tgt Ion:252 Resp: 19623

Ion Ratio Lower Upper

252 100

253 25.0 19.6 29.4

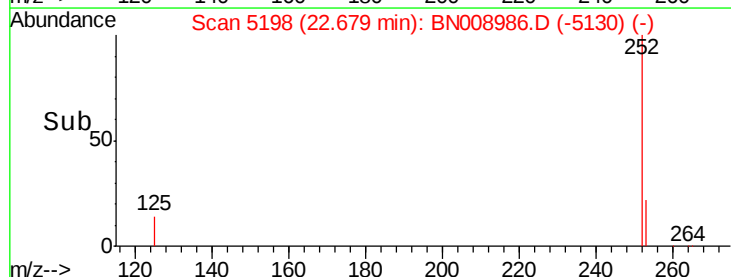
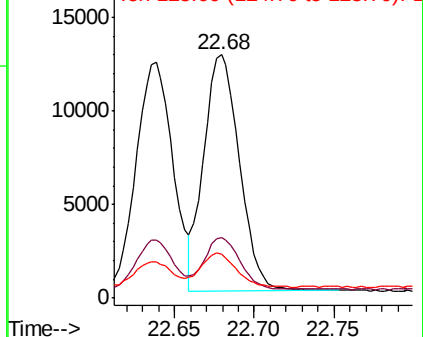
125 17.9 13.8 20.6

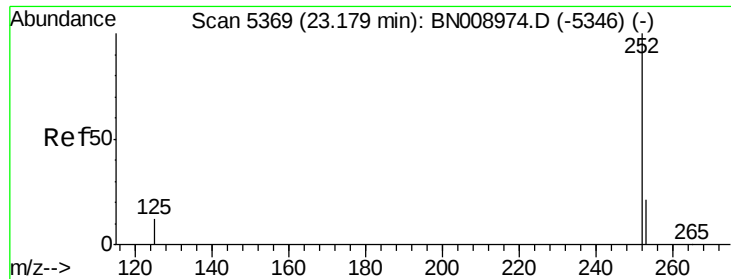


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.421 ng/u1

RT: 23.18 min Scan# 5369

Delta R.T. -0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

Instrument :

BNA\_N

ClientSampleId :

SLCS046

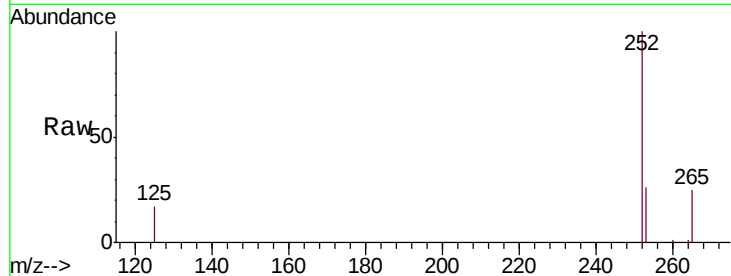
Tgt Ion:252 Resp: 17384

Ion Ratio Lower Upper

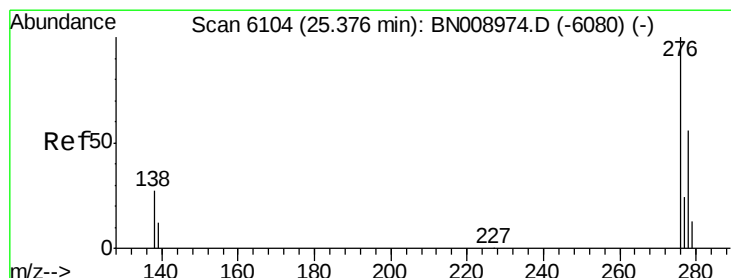
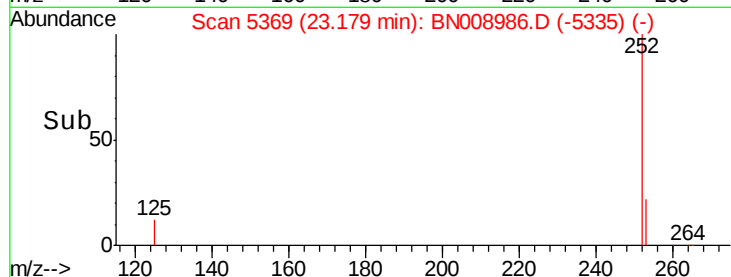
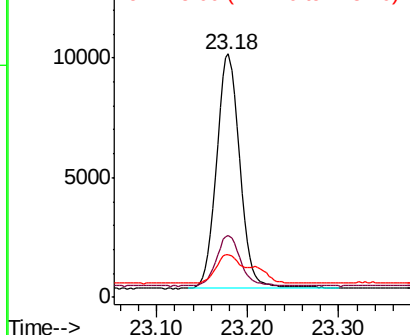
252 100

253 25.6 19.9 29.9

125 17.4 14.6 22.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.369 ng/u1

RT: 25.38 min Scan# 6105

Delta R.T. 0.00 min

Lab File: BN008986.D

Acq: 14 Dec 2019 02:46

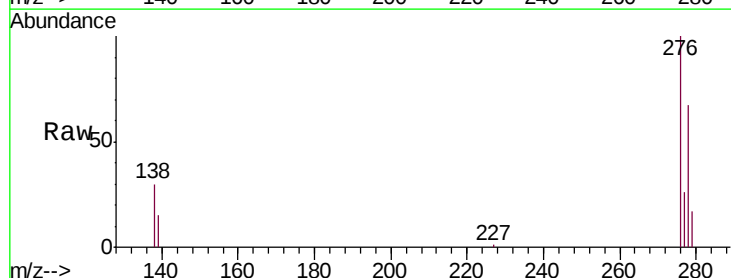
Tgt Ion:276 Resp: 17835

Ion Ratio Lower Upper

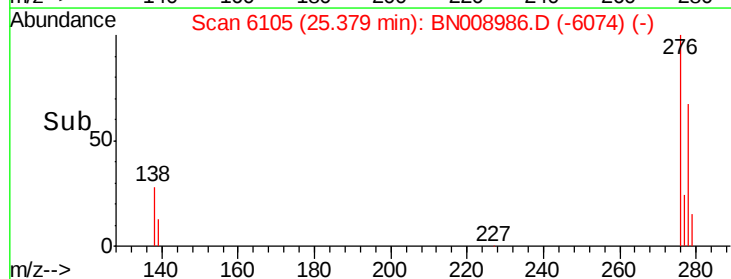
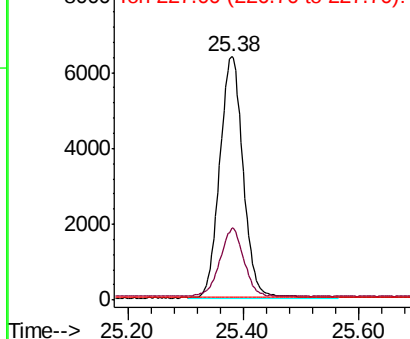
276 100

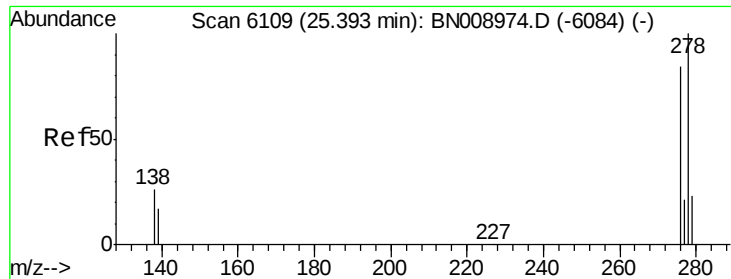
138 28.5 23.8 35.6

227 0.4 0.2 0.2#



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E

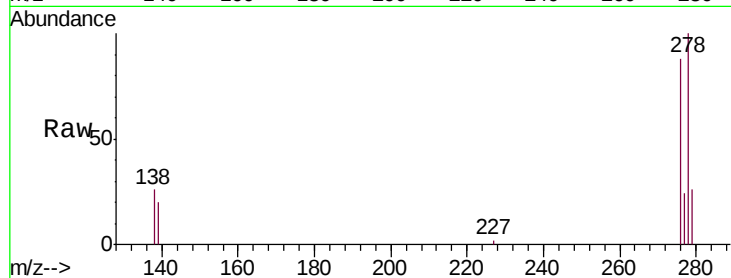




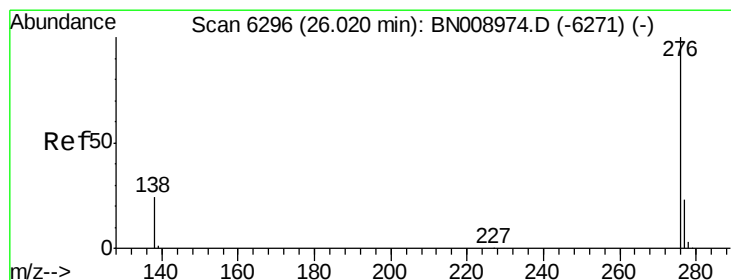
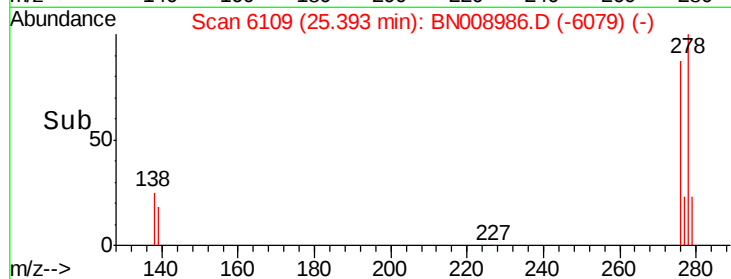
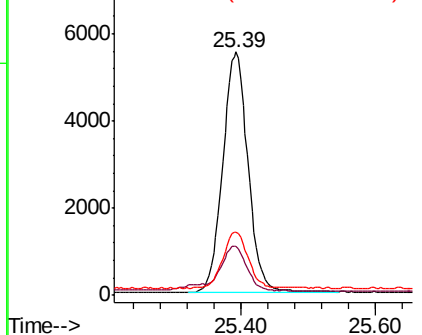
#25  
Dibenzo(a,h)anthracene  
Concen: 0.369 ng/ul  
RT: 25.39 min Scan# 6109  
Delta R.T. -0.00 min  
Lab File: BN008986.D  
Acq: 14 Dec 2019 02:46

Instrument :  
BNA\_N  
ClientSampleId :  
SLCS046

Tgt Ion: 278 Resp: 14383  
Ion Ratio Lower Upper  
278 100  
139 20.0 17.4 26.0  
279 25.9 20.5 30.7

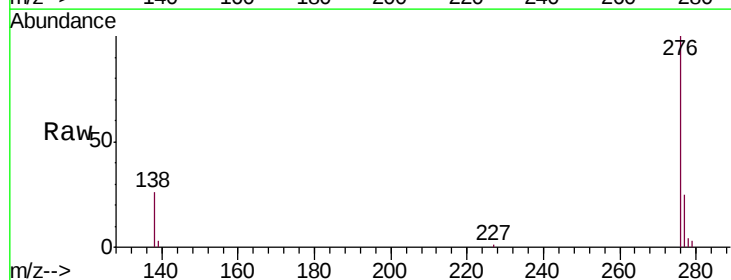


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.367 ng/ul  
RT: 26.01 min Scan# 6294  
Delta R.T. -0.01 min  
Lab File: BN008986.D  
Acq: 14 Dec 2019 02:46

Tgt Ion: 276 Resp: 14809  
Ion Ratio Lower Upper  
276 100  
138 25.6 21.9 32.9  
277 24.6 19.9 29.9



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

