

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120718\  
 Data File : BN003773.D  
 Acq On : 07 Dec 2018 19:04  
 Operator : JU/SJ  
 Sample : SSTDC00.4EC  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD0.493

Quant Time: Dec 08 00:37:50 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 08 00:32:32 2018  
 Response via : Initial Calibration

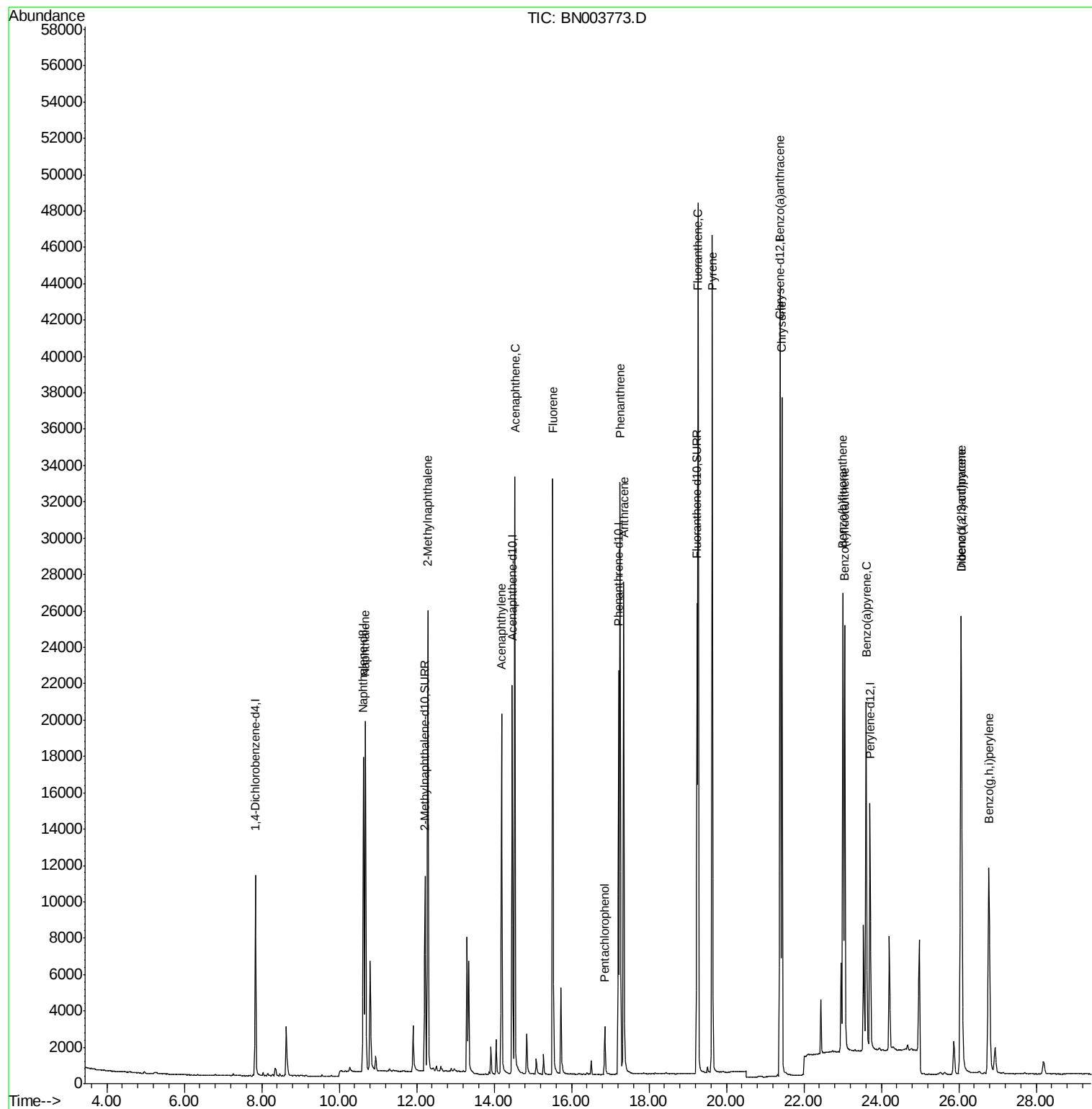
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 5758     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.63 | 136  | 23384    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.47 | 164  | 12063    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.21 | 188  | 26003    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.40 | 240  | 22174    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.71 | 264  | 18518    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.22 | 152  | 14388    | 0.40   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.24 | 212  | 29018    | 0.38   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.68 | 128  | 27268    | 0.415  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.29 | 142  | 18937    | 0.413  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.19 | 152  | 23444    | 0.432  | ng/ul  | 100      |
| 8) Acenaphthene             | 14.53 | 153  | 19818    | 0.416  | ng/ul  | 99       |
| 9) Fluorene                 | 15.52 | 166  | 21991    | 0.396  | ng/ul  | 99       |
| 11) Pentachlorophenol       | 16.86 | 266  | 2152     | 0.459  | ng/ul  | 95       |
| 12) Phenanthrene            | 17.26 | 178  | 36001    | 0.422  | ng/ul  | 100      |
| 13) Anthracene              | 17.34 | 178  | 30477    | 0.435  | ng/ul  | 100      |
| 15) Fluoranthene            | 19.27 | 202  | 39927    | 0.396  | ng/ul  | 97       |
| 17) Pyrene                  | 19.63 | 202  | 38921    | 0.489  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.38 | 228  | 31862    | 0.455  | ng/ul  | 99       |
| 19) Chrysene                | 21.43 | 228  | 32989    | 0.412  | ng/ul  | 100      |
| 21) Benzo(b)fluoranthene    | 23.01 | 252  | 31782    | 0.415  | ng/ul  | 99       |
| 22) Benzo(k)fluoranthene    | 23.05 | 252  | 30972    | 0.415  | ng/ul  | 99       |
| 23) Benzo(a)pyrene          | 23.61 | 252  | 28160    | 0.425  | ng/ul  | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.05 | 276  | 30958    | 0.407  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 26.07 | 278  | 24665    | 0.403  | ng/ul  | 99       |
| 26) Benzo(g,h,i)perylene    | 26.78 | 276  | 25935    | 0.392  | ng/ul  | 99       |

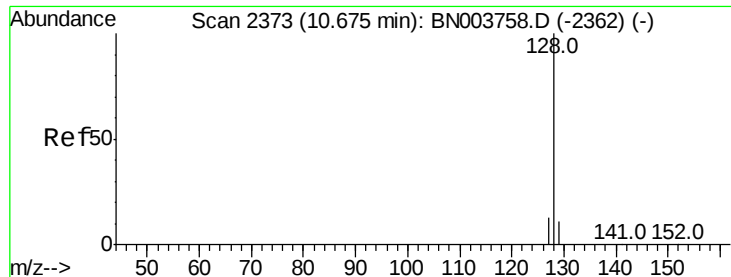
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120718\  
Data File : BN003773.D  
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Sample : SSTDCCC0.4EC  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTD0.493

Quant Time: Dec 08 00:37:50 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 08 00:32:32 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.415 ng/ul

RT: 10.68 min Scan# 2373

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

Instrument :

BNA\_N

ClientSampleId :

SSTD0.493

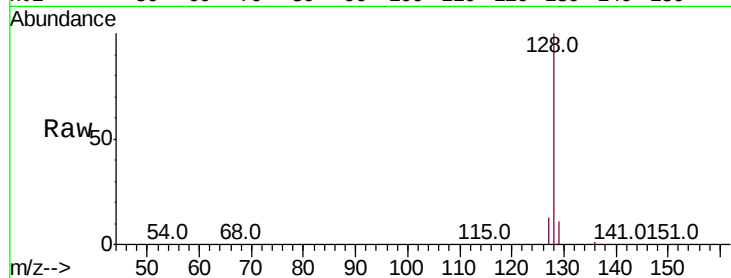
Tot Ion:128 Resp: 27268

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

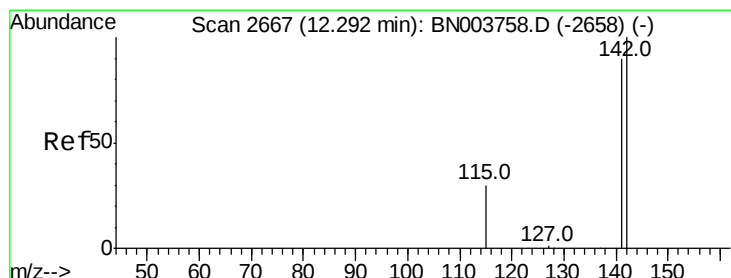
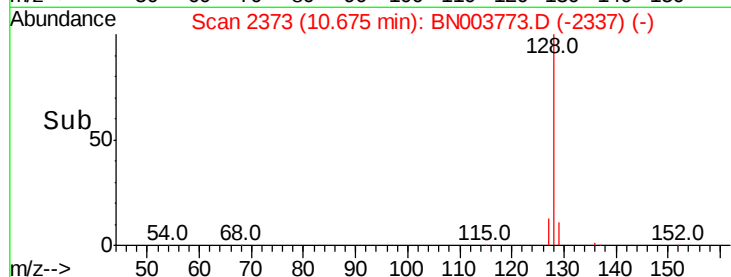
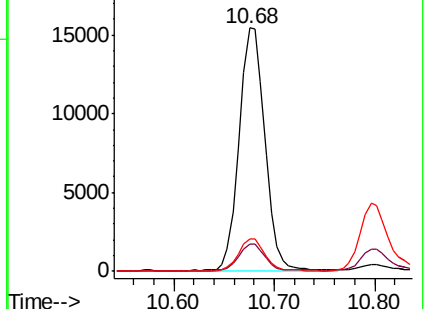
127 13.5 10.5 15.7



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: 0.413 ng/ul

RT: 12.29 min Scan# 2666

Delta R.T. -0.01 min

Lab File: BN003773.D

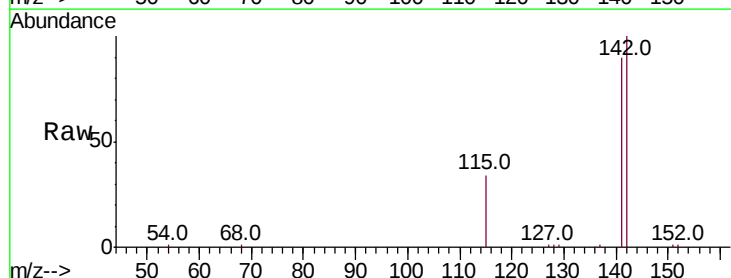
Acq: 07 Dec 2018 19:04

Tgt Ion:142 Resp: 18937

Ion Ratio Lower Upper

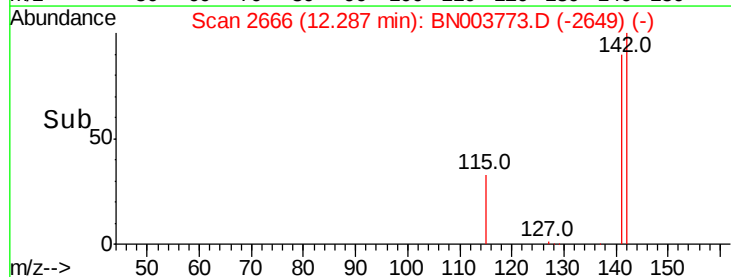
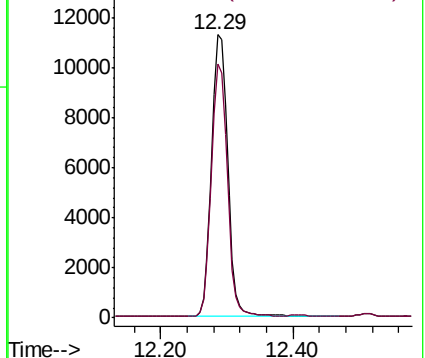
142 100

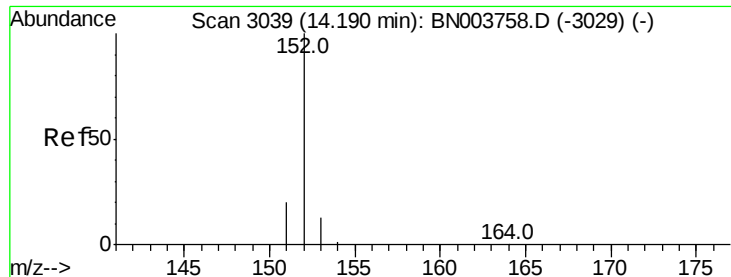
141 88.7 71.5 107.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.432 ng/ul

RT: 14.19 min Scan# 3039

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

Instrument :

BNA\_N

ClientSampleId :

SSTD0.493

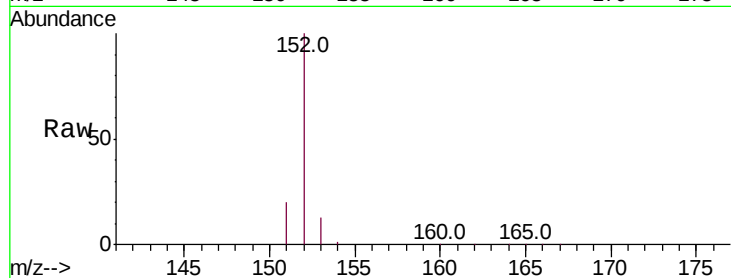
Tot Ion:152 Resp: 23444

Ion Ratio Lower Upper

152 100

151 19.8 15.9 23.9

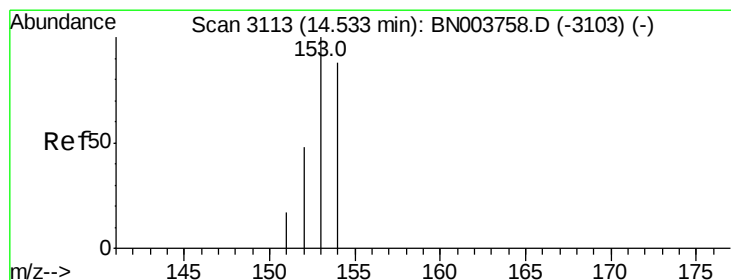
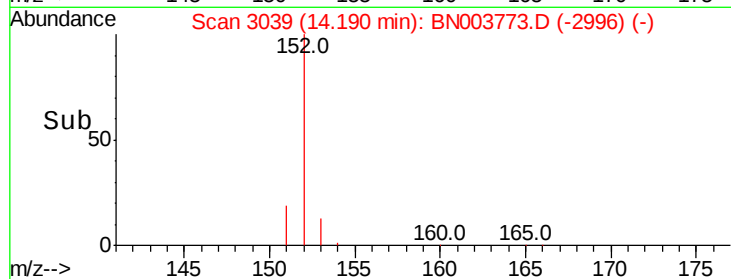
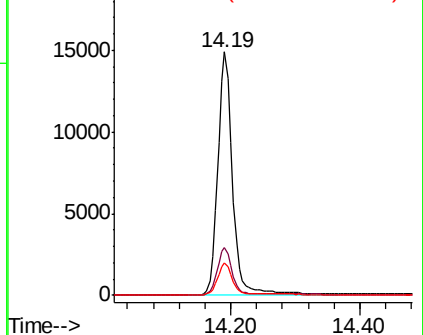
153 13.2 10.7 16.1



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: 0.416 ng/ul

RT: 14.53 min Scan# 3113

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

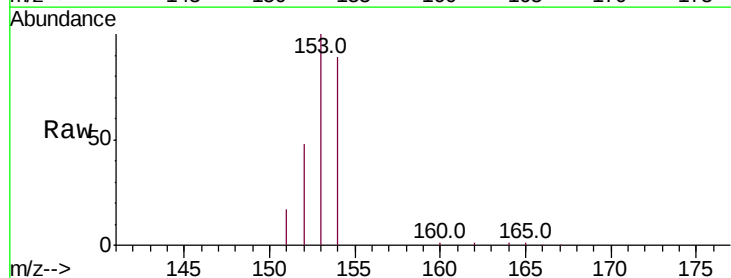
Tgt Ion:153 Resp: 19818

Ion Ratio Lower Upper

153 100

152 47.8 39.3 58.9

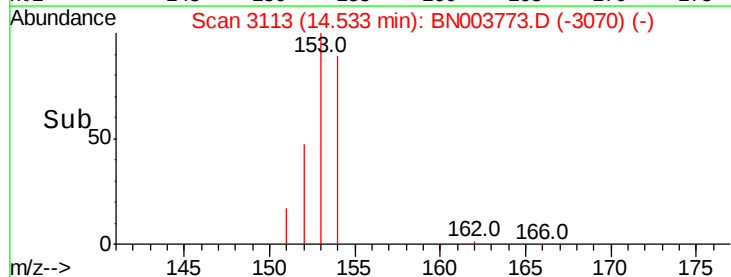
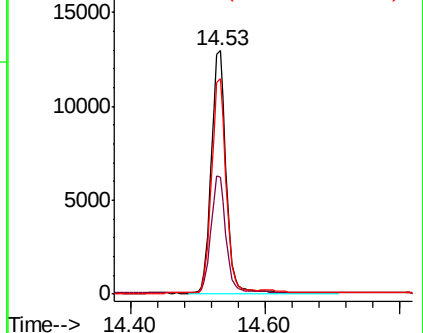
154 88.5 70.3 105.5

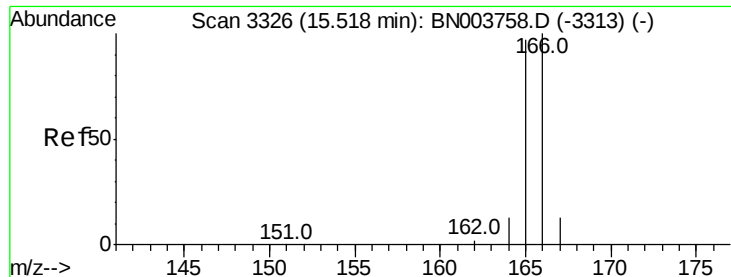


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.396 ng/ul

RT: 15.52 min Scan# 3326

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

Instrument :

BNA\_N

ClientSampleId :

SSTD0.493

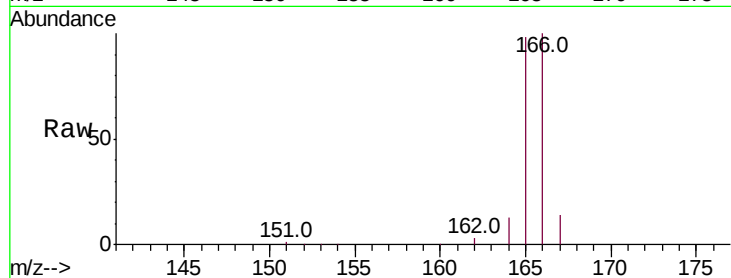
Tot Ion:166 Resp: 21991

Ion Ratio Lower Upper

166 100

165 98.3 78.3 117.5

167 13.6 11.3 16.9

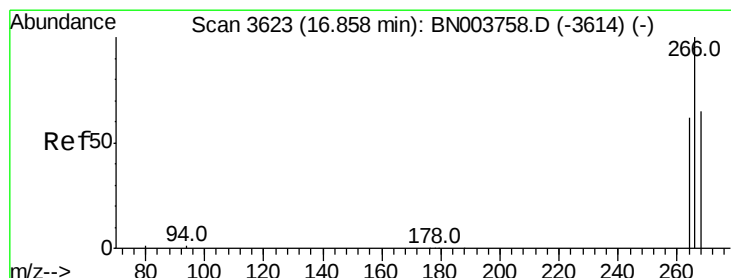
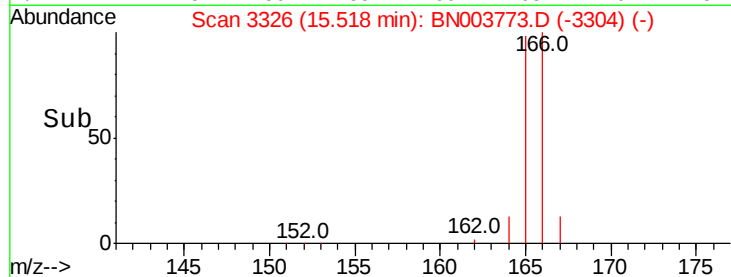
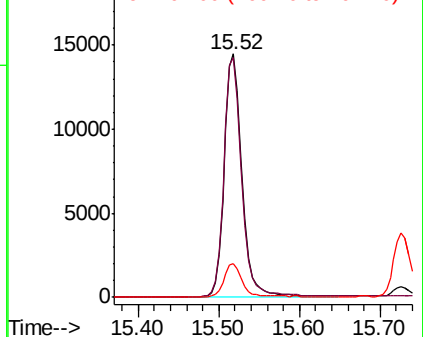


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#11

Pentachlorophenol

Concen: 0.459 ng/ul

RT: 16.86 min Scan# 3623

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

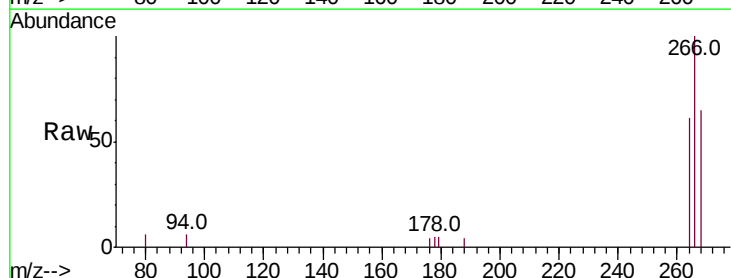
Tgt Ion:266 Resp: 2152

Ion Ratio Lower Upper

266 100

264 60.4 49.4 74.2

268 58.9 51.7 77.5

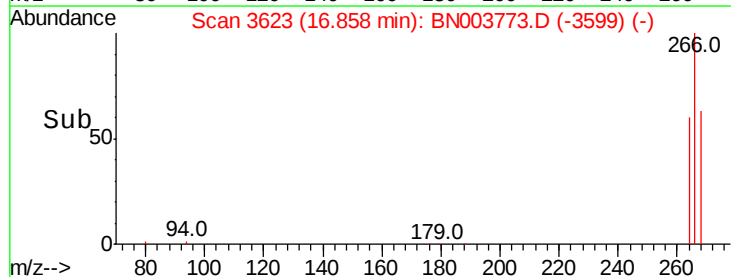
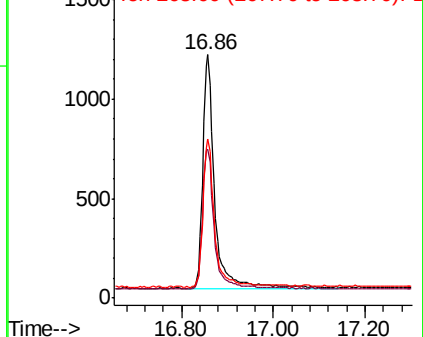


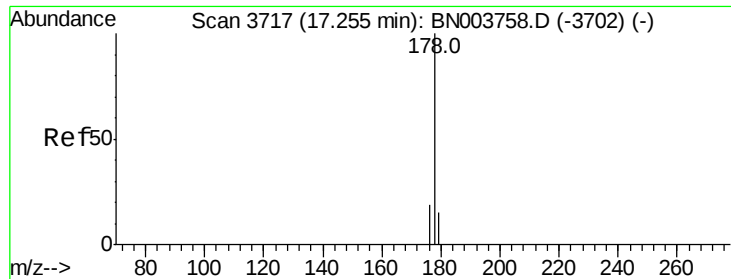
Abundance

Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

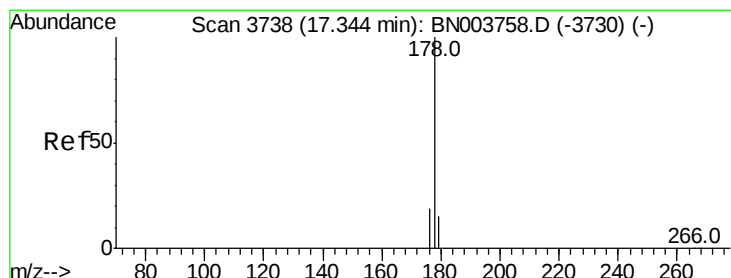
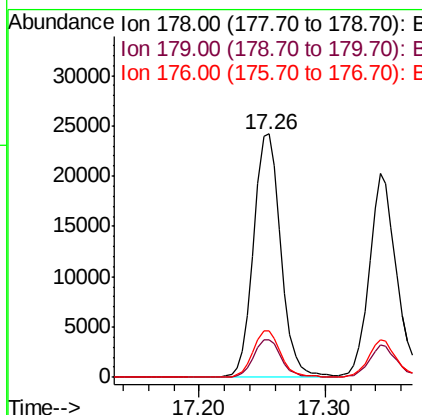
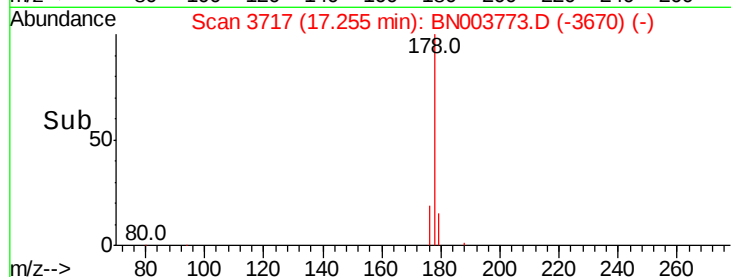
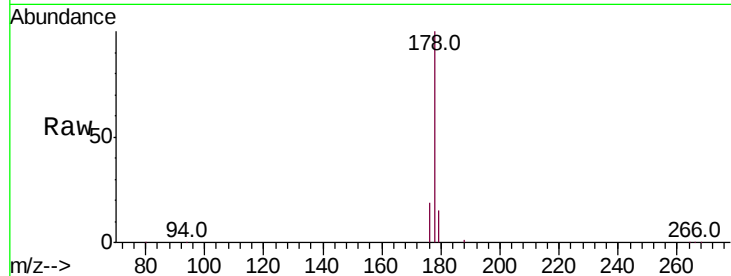




#12  
Phenanthrene  
Concen: 0.422 ng/ul  
RT: 17.26 min Scan# 3717  
Delta R.T. 0.00 min  
Lab File: BN003773.D  
Acq: 07 Dec 2018 19:04

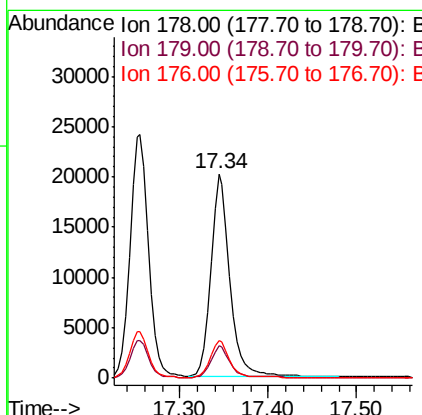
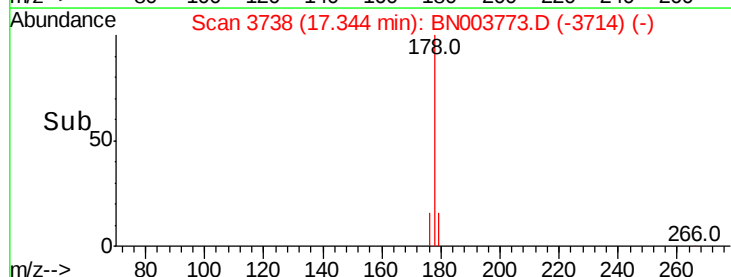
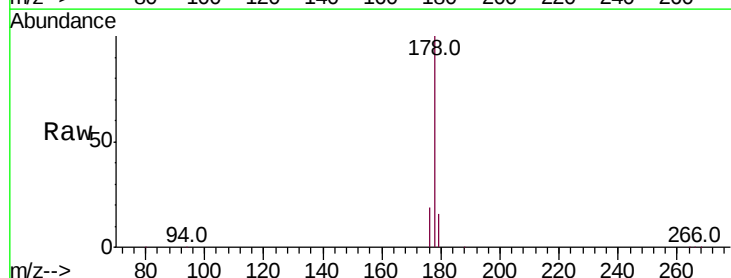
Instrument :  
BNA\_N  
ClientSampleId :  
SSTD0.493

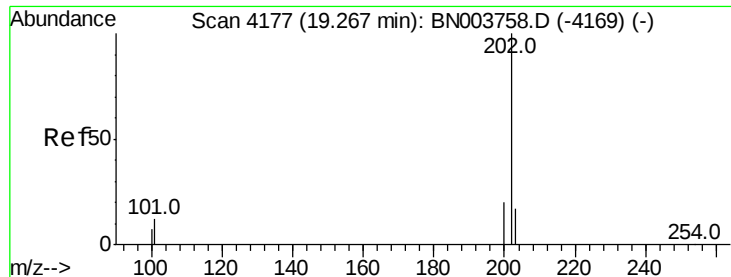
Tot Ion:178 Resp: 36001  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.5 18.7  
176 18.8 15.0 22.4



#13  
Anthracene  
Concen: 0.435 ng/ul  
RT: 17.34 min Scan# 3738  
Delta R.T. 0.00 min  
Lab File: BN003773.D  
Acq: 07 Dec 2018 19:04

Tgt Ion:178 Resp: 30477  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.3 18.5  
176 18.5 14.8 22.2





#15

Fluoranthene

Concen: 0.396 ng/ul

RT: 19.27 min Scan# 4177

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

Instrument :

BNA\_N

ClientSampleId :

SSTD0.493

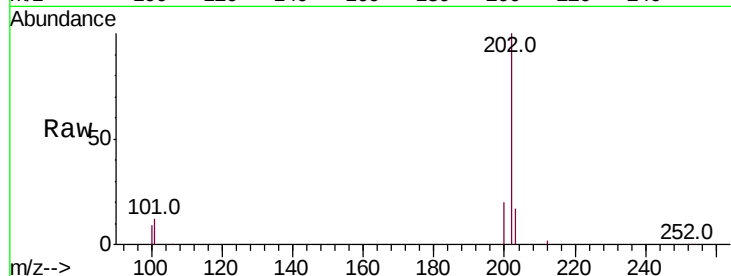
Tot Ion:202 Resp: 39927

Ion Ratio Lower Upper

202 100

101 11.9 0.0 30.7

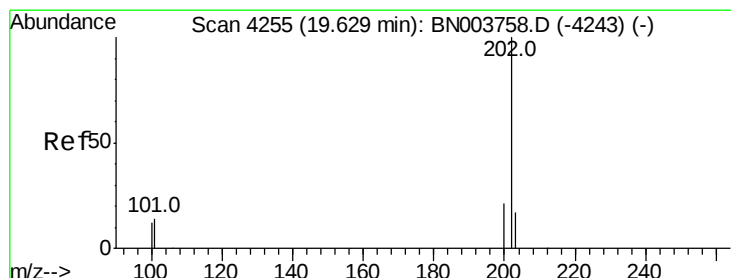
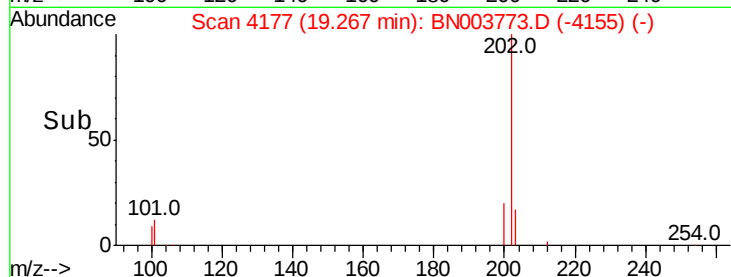
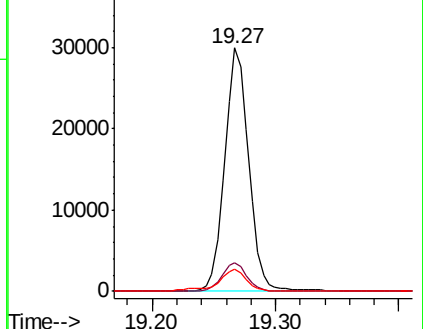
100 9.2 0.0 28.1



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: 0.489 ng/ul

RT: 19.63 min Scan# 4256

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

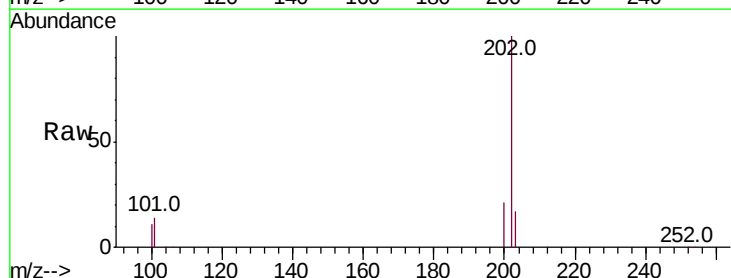
Tgt Ion:202 Resp: 38921

Ion Ratio Lower Upper

202 100

101 13.5 10.3 15.5

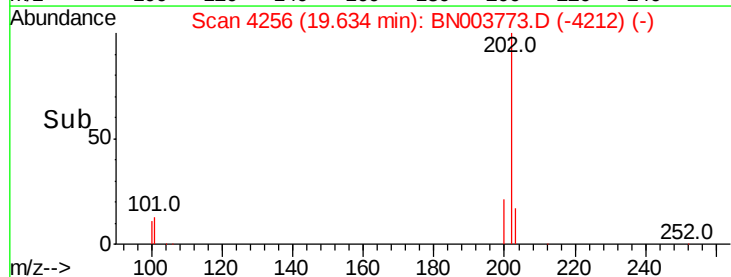
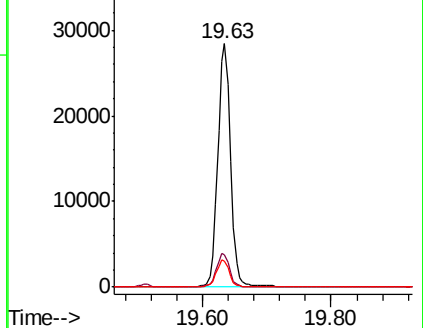
100 10.9 8.5 12.7

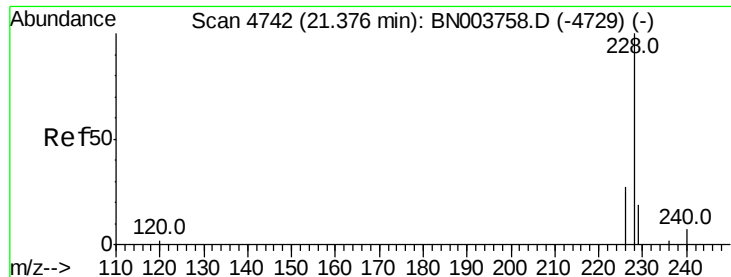


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#18

Benzo(a)anthracene

Concen: 0.455 ng/ul

RT: 21.38 min Scan# 4743

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

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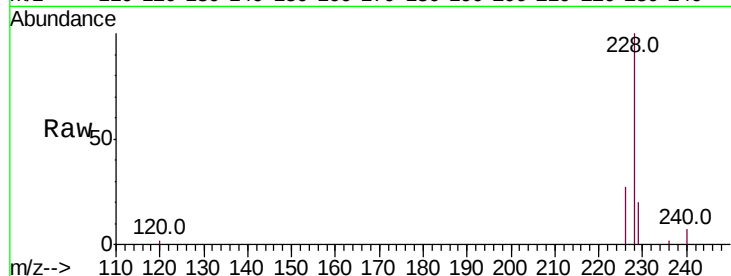
Tot Ion:228 Resp: 31862

Ion Ratio Lower Upper

228 100

229 19.7 15.6 23.4

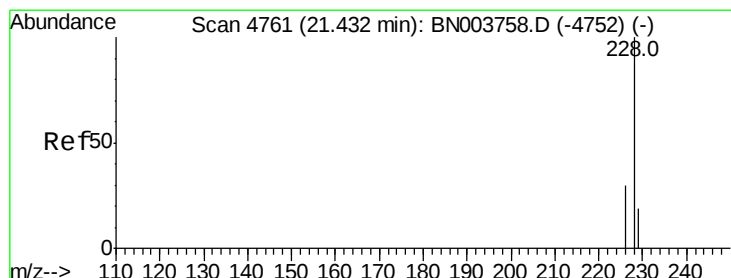
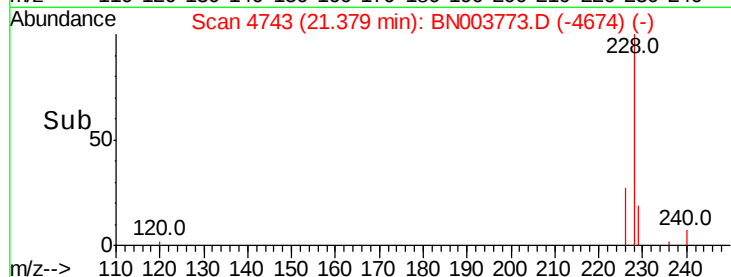
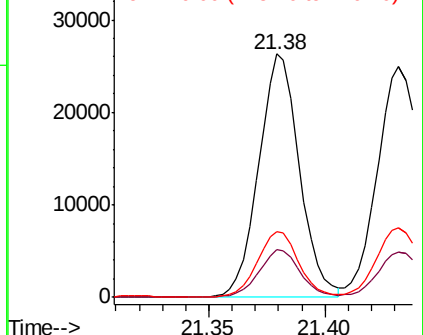
226 27.2 21.1 31.7



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: 0.412 ng/ul

RT: 21.43 min Scan# 4761

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

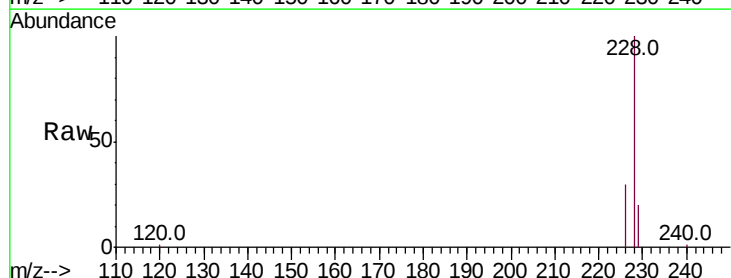
Tgt Ion:228 Resp: 32989

Ion Ratio Lower Upper

228 100

226 30.0 24.0 36.0

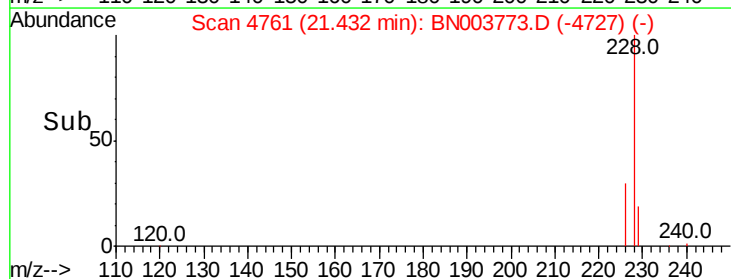
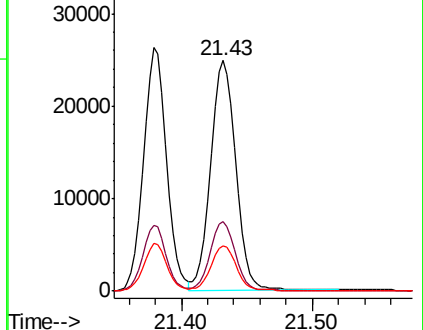
229 19.6 15.7 23.5

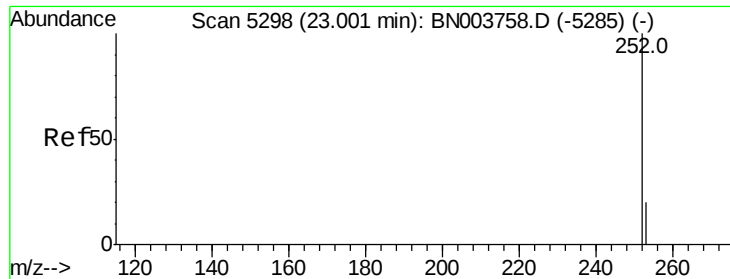


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.415 ng/ul

RT: 23.01 min Scan# 5300

Delta R.T. 0.01 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

Instrument :

BNA\_N

ClientSampleId :

SSTD0.493

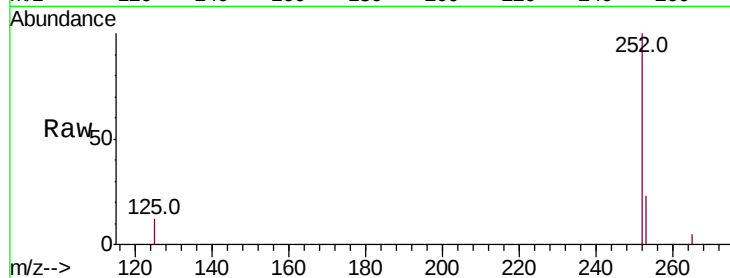
Tot Ion:252 Resp: 31782

Ion Ratio Lower Upper

252 100

253 23.4 0.0 46.0

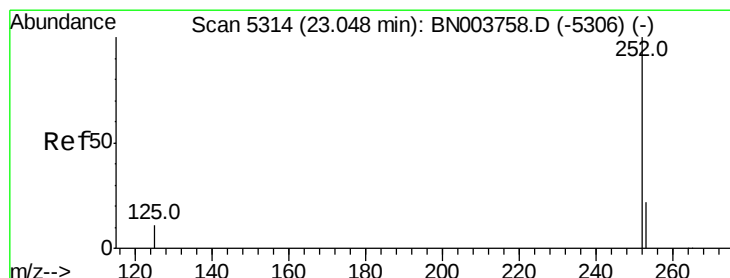
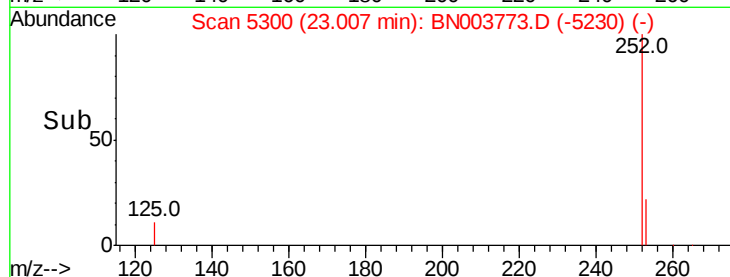
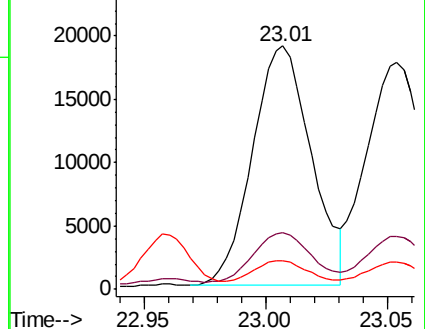
125 11.7 0.0 22.4



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: 0.415 ng/ul

RT: 23.05 min Scan# 5316

Delta R.T. 0.01 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

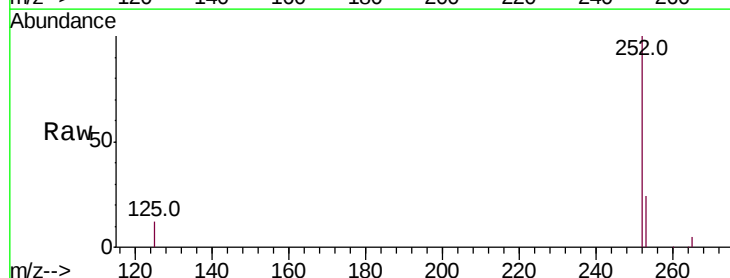
Tgt Ion:252 Resp: 30972

Ion Ratio Lower Upper

252 100

253 23.5 18.5 27.7

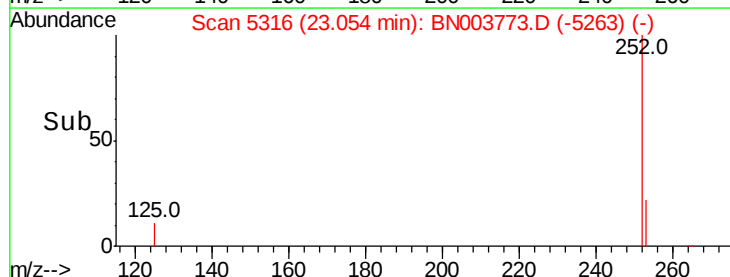
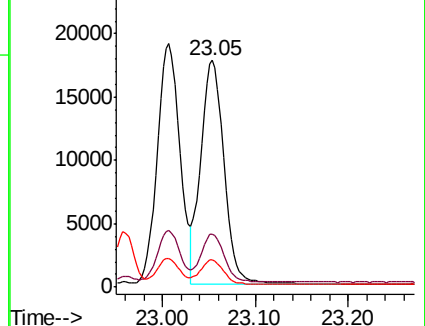
125 11.8 9.0 13.6

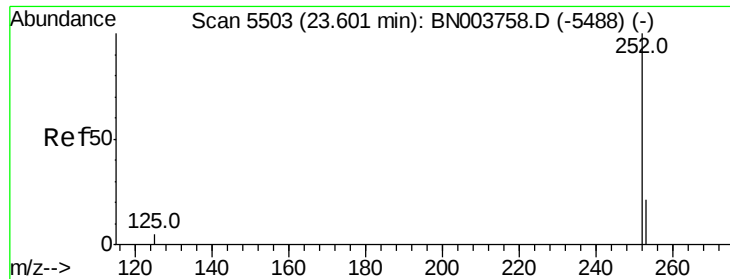


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.425 ng/ul

RT: 23.61 min Scan# 5505

Delta R.T. 0.01 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

Instrument :

BNA\_N

ClientSampleId :

SSTD0.493

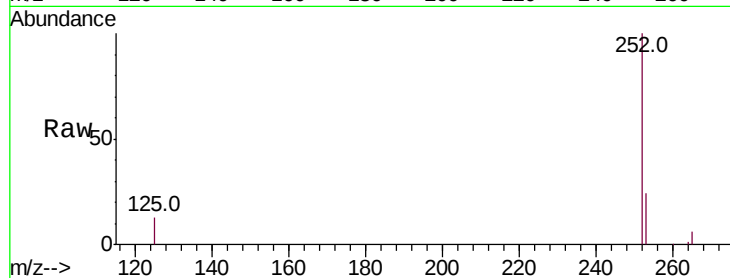
Tot Ion:252 Resp: 28160

Ion Ratio Lower Upper

252 100

253 24.4 19.0 28.4

125 13.2 10.2 15.4

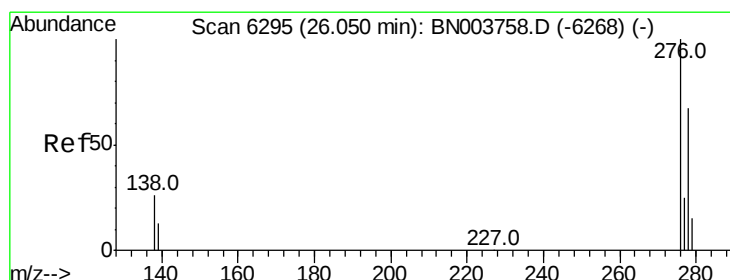
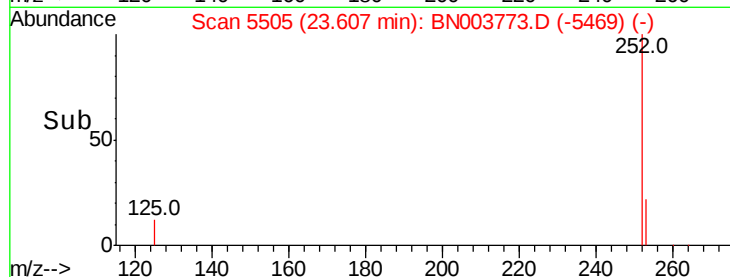
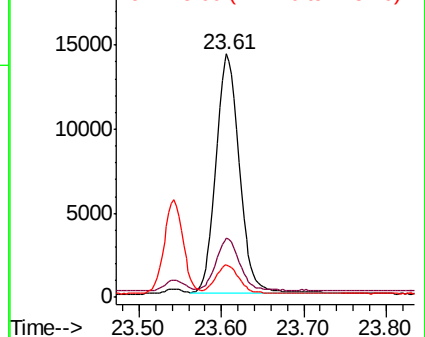


Abundance

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: 0.407 ng/ul

RT: 26.05 min Scan# 6296

Delta R.T. 0.00 min

Lab File: BN003773.D

Acq: 07 Dec 2018 19:04

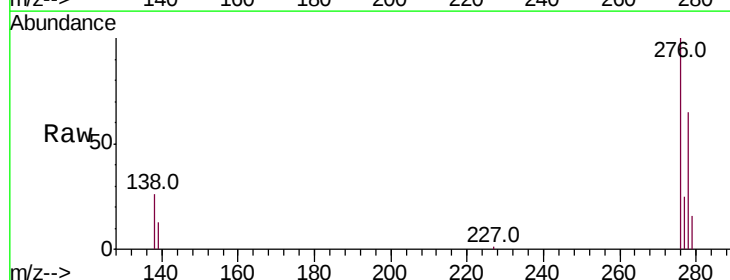
Tgt Ion:276 Resp: 30958

Ion Ratio Lower Upper

276 100

138 26.3 20.3 30.5

227 0.1 0.2 0.2#

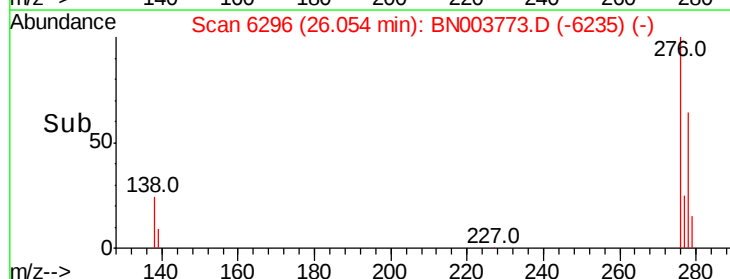
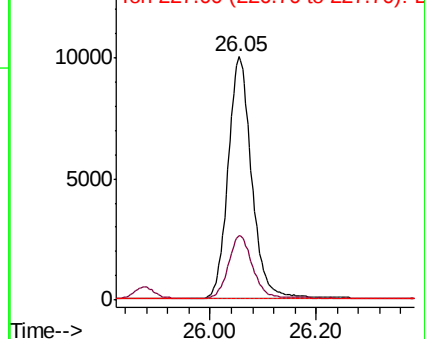


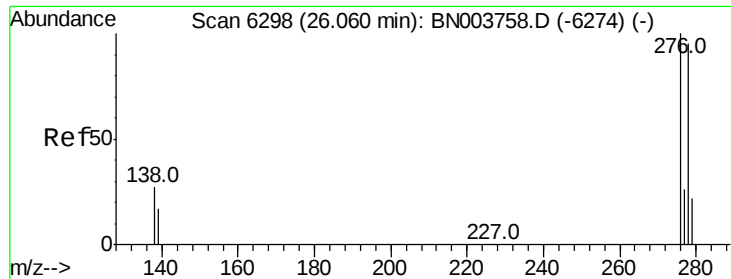
Abundance

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



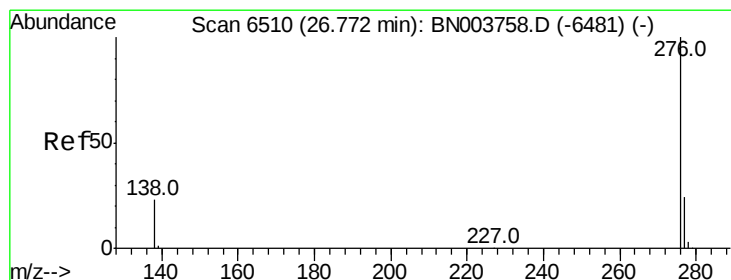
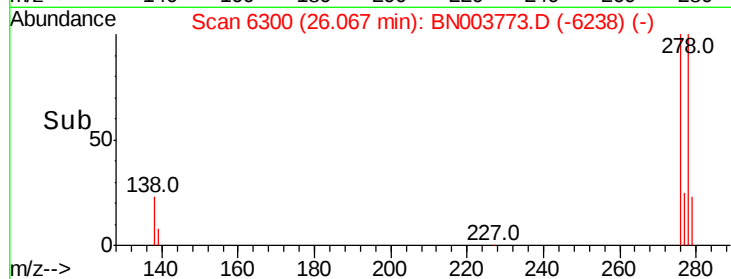
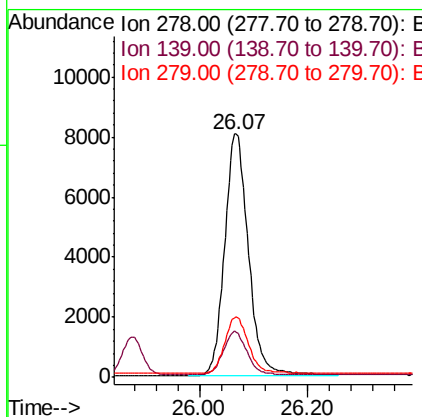
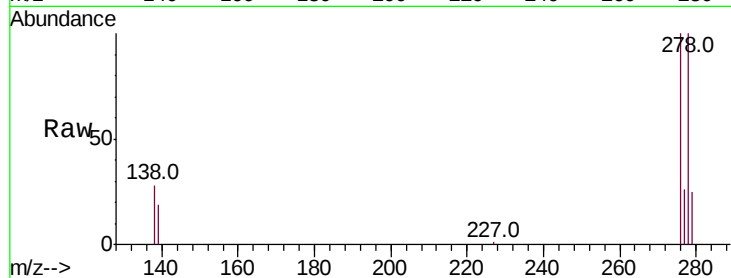


#25  
Dibenzo(a,h)anthracene  
Concen: 0.403 ng/ul  
RT: 26.07 min Scan# 6300  
Delta R.T. 0.01 min  
Lab File: BN003773.D  
Acq: 07 Dec 2018 19:04

Instrument :  
BNA\_N  
ClientSampleId :  
SSTD0.493

Tot Ion:278 Resp: 24665  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 18.7  | 14.2  | 21.4  |
| 279 | 25.0  | 19.8  | 29.6  |



#26  
Benzo(g,h,i)perylene  
Concen: 0.392 ng/ul  
RT: 26.78 min Scan# 6512  
Delta R.T. 0.01 min  
Lab File: BN003773.D  
Acq: 07 Dec 2018 19:04

Tgt Ion:276 Resp: 25935  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.0  | 17.7  | 26.5  |
| 277 | 24.3  | 19.3  | 28.9  |

