

Data File : BN008694.D  
Acq On : 22 Nov 2019 02:27  
Operator : JU  
Sample : K5854-08  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AC6

Quant Time: Nov 22 07:15:54 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 Nov 22 07:12:34 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 4249     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.37 | 136  | 15797    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.23 | 164  | 10603    | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.97 | 188  | 19669    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.18 | 240  | 12568    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.34 | 264  | 16877    | 0.40 | ng/ul | 0.00     |

|                             |       |     |       |      |       |      |
|-----------------------------|-------|-----|-------|------|-------|------|
| System Monitoring Compounds |       |     |       |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152 | 5176  | 0.20 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.01 | 212 | 14142 | 0.24 | ng/ul | 0.00 |

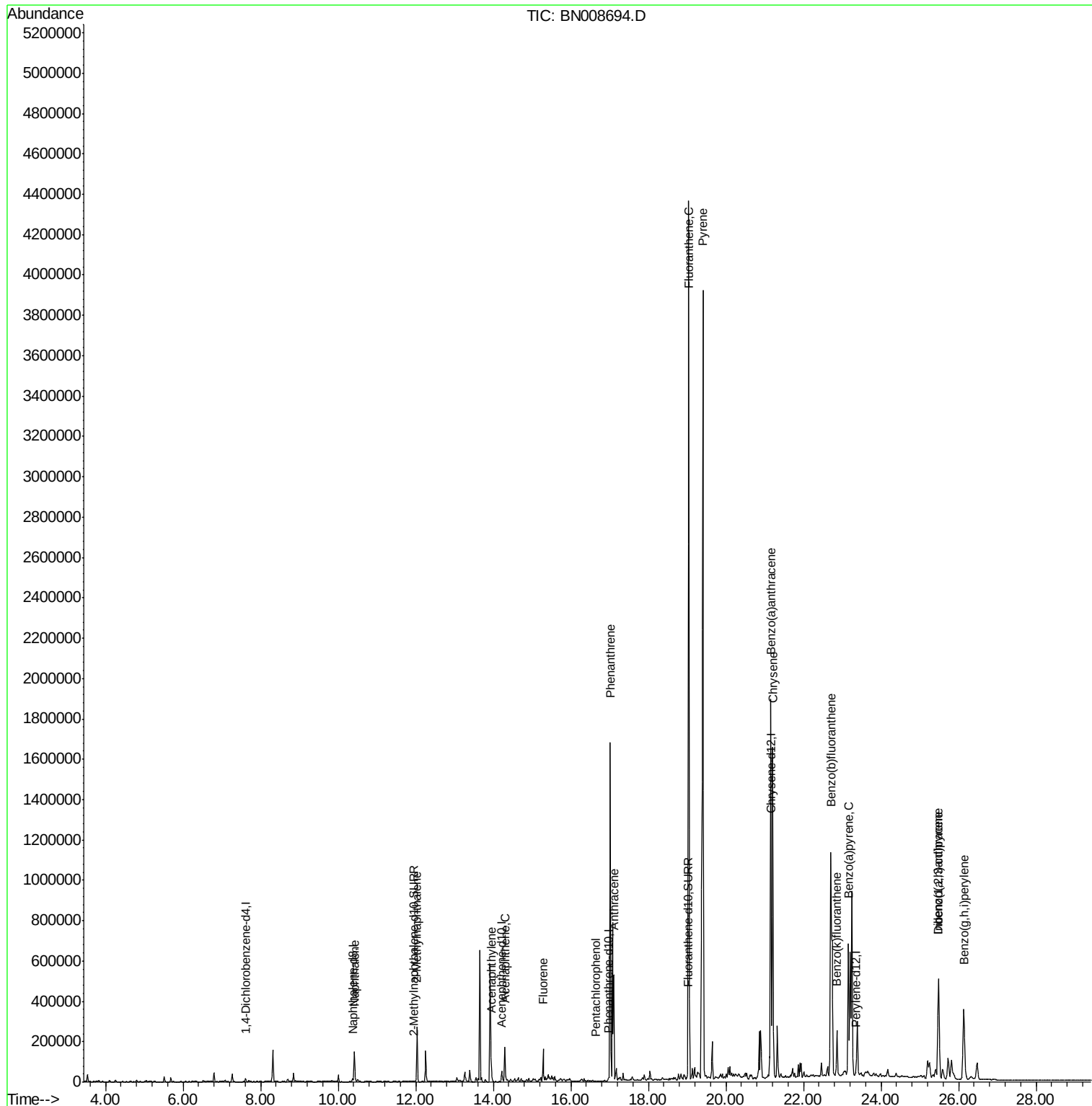
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 3) Naphthalene             | 10.42 | 128  | 193170   | 4.056  | ng/ul  | 98     |
| 5) 2-Methylnaphthalene     | 12.04 | 142  | 190223   | 5.720  | ng/ul  | 100    |
| 7) Acenaphthylene          | 13.95 | 152  | 81700    | 1.394  | ng/ul  | 97     |
| 8) Acenaphthene            | 14.30 | 153  | 101251   | 2.327  | ng/ul  | 98     |
| 9) Fluorene                | 15.29 | 166  | 89376    | 1.750  | ng/ul# | 97     |
| 11) Pentachlorophenol      | 16.64 | 266  | 164      | 0.022  | ng/ul# | 85     |
| 12) Phenanthrene           | 17.02 | 178  | 1756393  | 26.478 | ng/ul  | 98     |
| 13) Anthracene             | 17.11 | 178  | 534536   | 8.528  | ng/ul  | 98     |
| 15) Fluoranthene           | 19.04 | 202  | 3798450  | 46.609 | ng/ul  | 92     |
| 17) Pyrene                 | 19.40 | 202  | 3379099  | 67.018 | ng/ul# | 94     |
| 18) Benzo(a)anthracene     | 21.16 | 228  | 1640112  | 32.450 | ng/ul  | 97     |
| 19) Chrysene               | 21.21 | 228  | 1514786  | 30.514 | ng/ul  | 96     |
| 21) Benzo(b)fluoranthene   | 22.70 | 252  | 2451554  | 35.226 | ng/ul  | 95     |
| 22) Benzo(k)fluoranthene   | 22.86 | 252  | 257066   | 3.724  | ng/ul  | 95     |
| 23) Benzo(a)pyrene         | 23.16 | 252  | 642134   | 9.830  | ng/ul  | 95     |
| 24) Indeno(1,2,3-cd)pyrene | 25.48 | 276  | 740121   | 9.688  | ng/ul# | 94     |
| 25) Dibenzo(a,h)anthracene | 25.49 | 278  | 182076   | 2.951  | ng/ul  | 97     |
| 26) Benzo(g,h,i)perylene   | 26.14 | 276  | 688497   | 10.773 | ng/ul  | 99     |

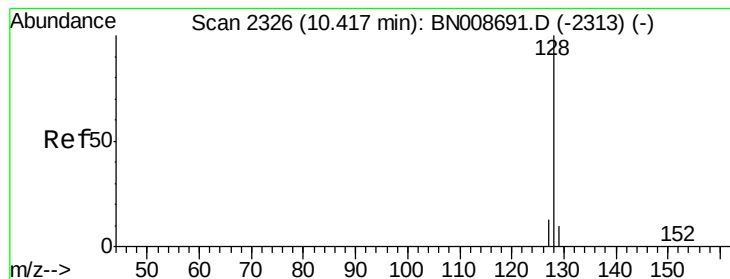
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 22 07:15:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN11519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 22 07:12:34 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 4.056 ng/ul

RT: 10.42 min Scan# 2326

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

Instrument :

BNA\_N

ClientSampleId :

C0AC6

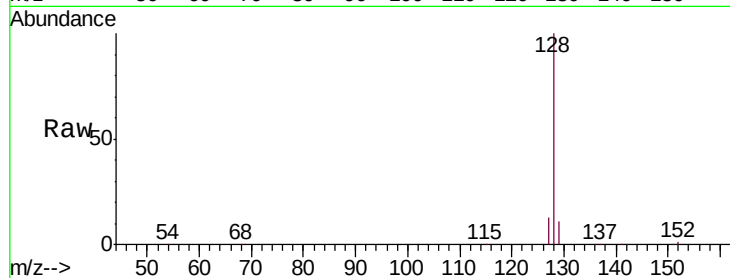
Tgt Ion:128 Resp: 193170

Ion Ratio Lower Upper

128 100

129 11.0 9.7 14.5

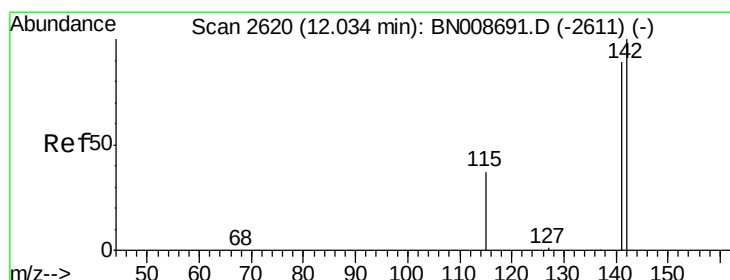
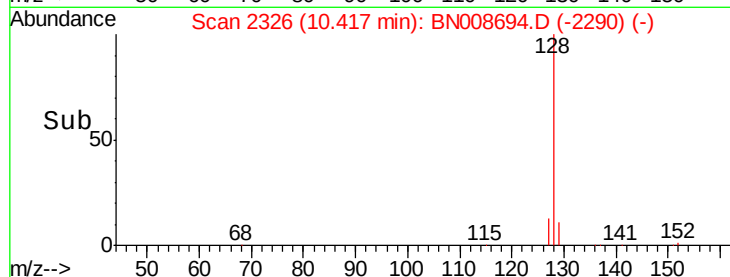
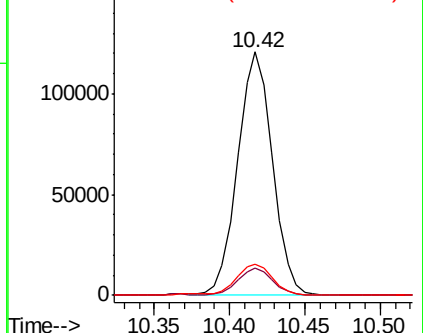
127 13.0 10.8 16.2



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: 5.720 ng/ul

RT: 12.04 min Scan# 2621

Delta R.T. 0.01 min

Lab File: BN008694.D

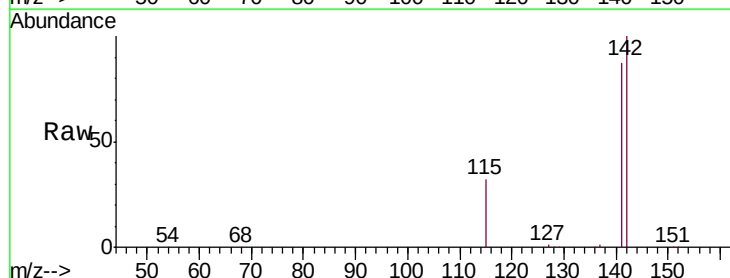
Acq: 22 Nov 2019 02:27

Tgt Ion:142 Resp: 190223

Ion Ratio Lower Upper

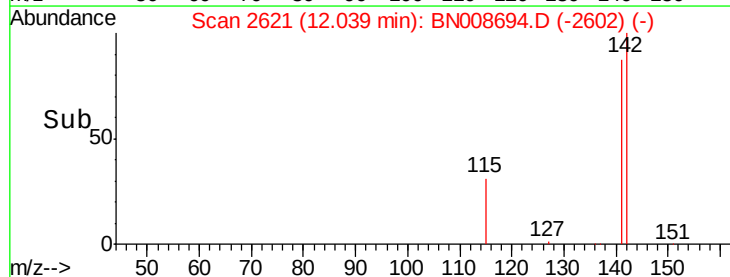
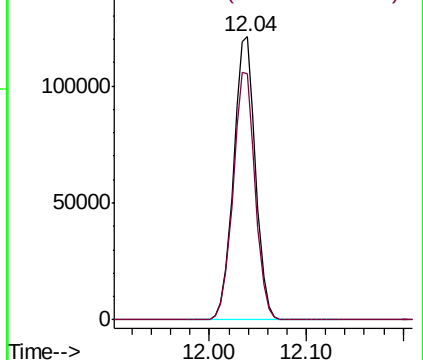
142 100

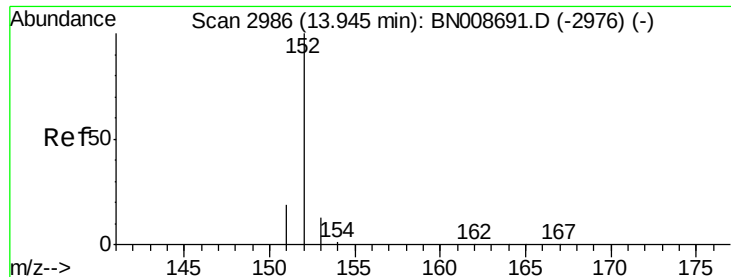
141 87.9 70.5 105.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 1.394 ng/ul

RT: 13.95 min Scan# 2987

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

Instrument :

BNA\_N

ClientSampleId :

C0AC6

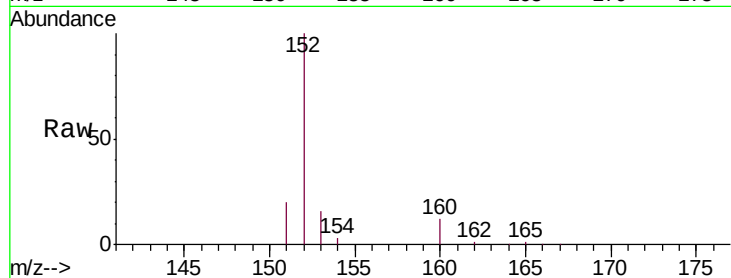
Tgt Ion:152 Resp: 81700

Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

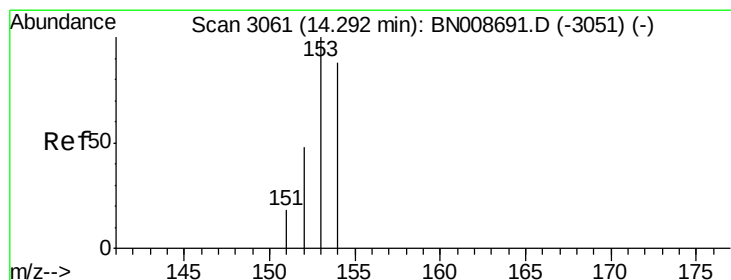
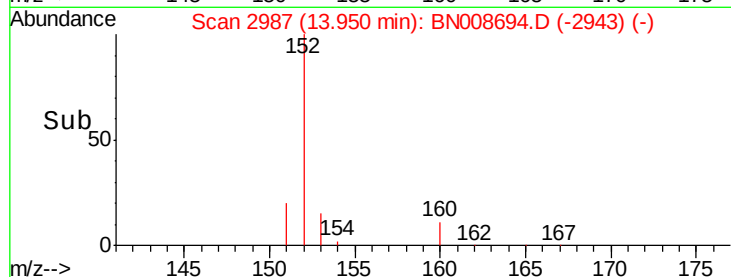
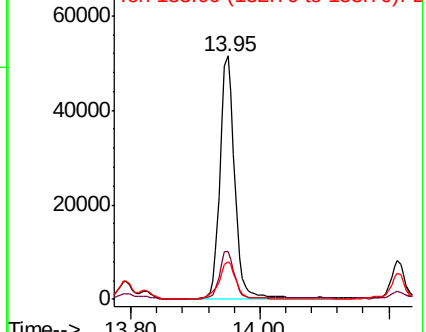
153 15.6 11.1 16.7



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: 2.327 ng/ul

RT: 14.30 min Scan# 3062

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

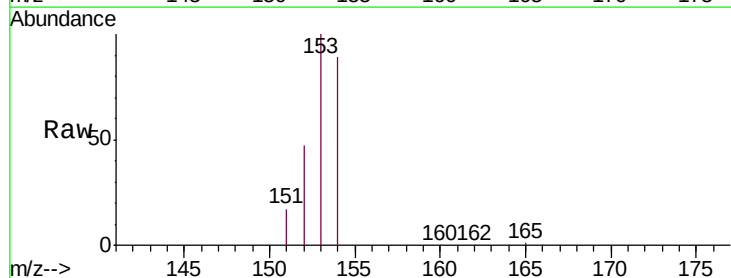
Tgt Ion:153 Resp: 101251

Ion Ratio Lower Upper

153 100

152 46.8 39.6 59.4

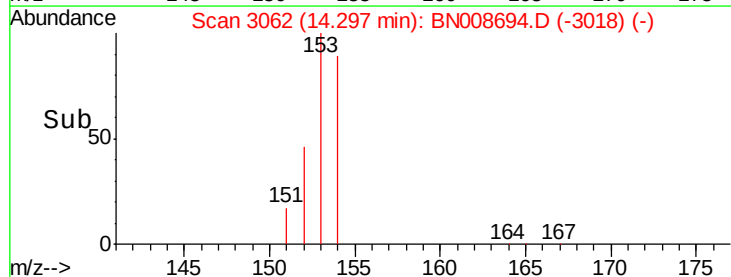
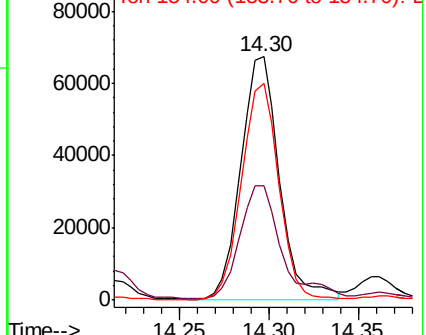
154 89.2 70.6 106.0

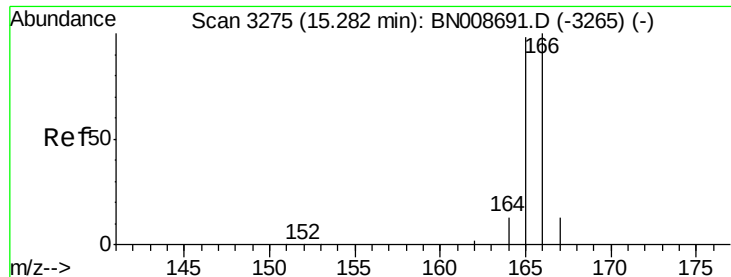


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

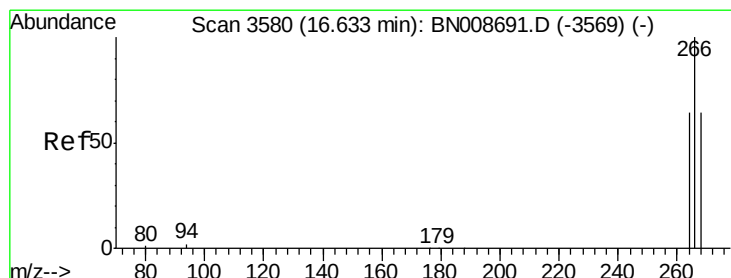
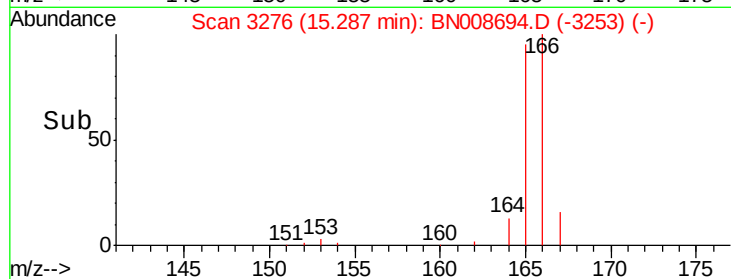
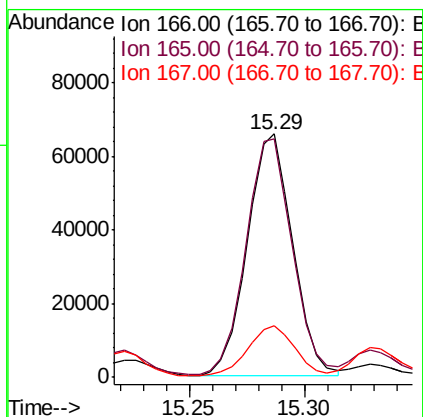
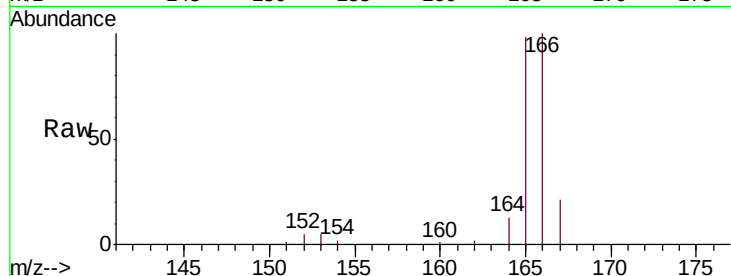




#9  
**Fluorene**  
 Concen: 1.750 ng/ul  
 RT: 15.29 min Scan# 3276  
 Delta R.T. 0.00 min  
 Lab File: BN008694.D  
 Acq: 22 Nov 2019 02:27

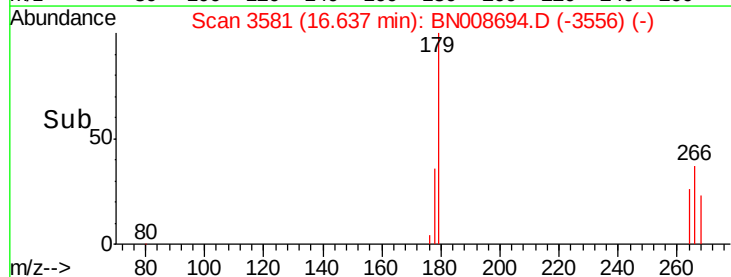
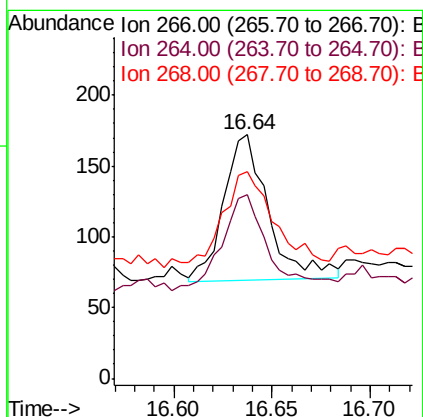
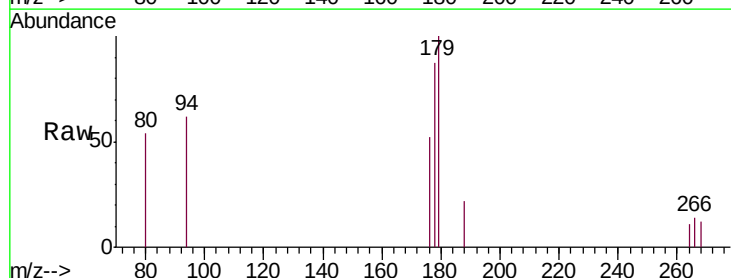
Instrument :  
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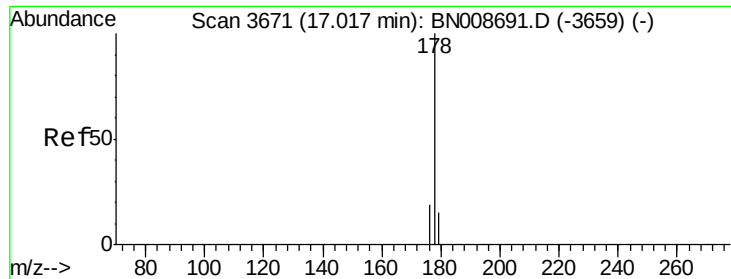
Tgt Ion:166 Resp: 89376  
 Ion Ratio Lower Upper  
 166 100  
 165 97.8 77.4 116.0  
 167 21.3 11.4 17.0#



#11  
**Pentachlorophenol**  
 Concen: 0.022 ng/ul  
 RT: 16.64 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: BN008694.D  
 Acq: 22 Nov 2019 02:27

Tgt Ion:266 Resp: 164  
 Ion Ratio Lower Upper  
 266 100  
 264 70.1 49.2 73.8  
 268 78.0 50.9 76.3#





#12

Phenanthrene

Concen: 26.478 ng/ul

RT: 17.02 min Scan# 3671

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

Instrument :

BNA\_N

ClientSampleId :

C0AC6

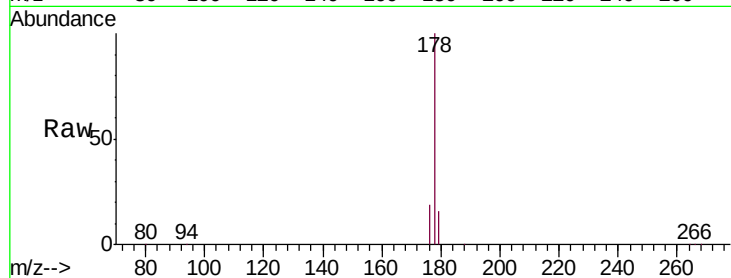
Tgt Ion:178 Resp: 1756393

Ion Ratio Lower Upper

178 100

179 15.5 12.8 19.2

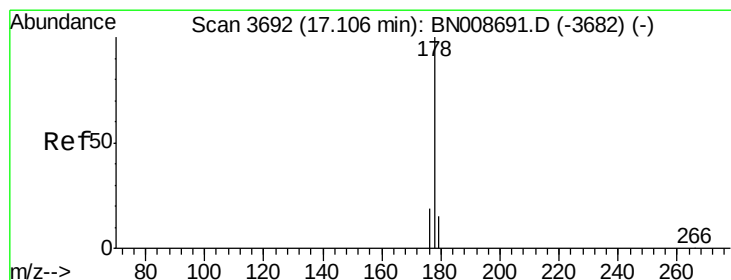
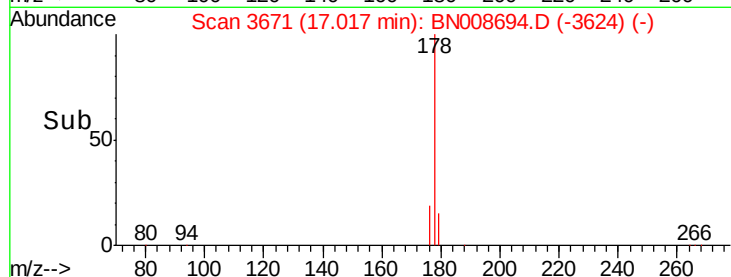
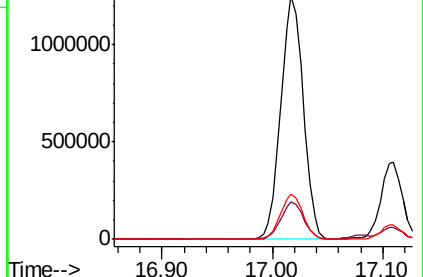
176 18.8 16.0 24.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#13

Anthracene

Concen: 8.528 ng/ul

RT: 17.11 min Scan# 3693

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

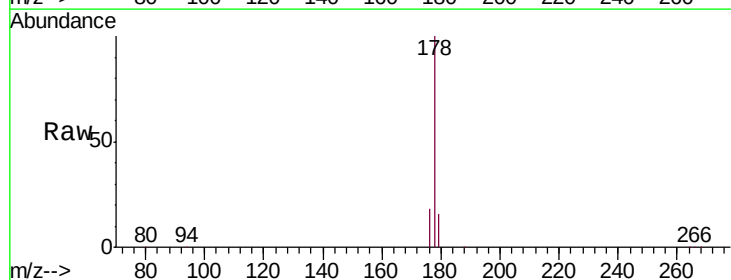
Tgt Ion:178 Resp: 534536

Ion Ratio Lower Upper

178 100

179 15.6 13.0 19.4

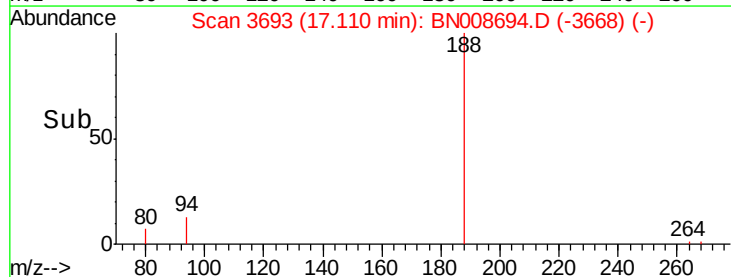
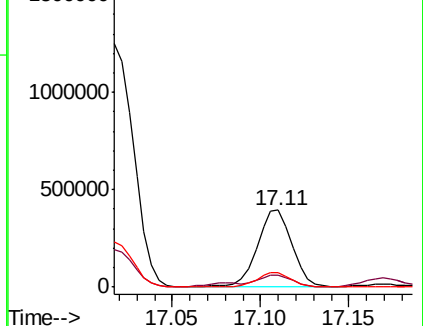
176 18.1 15.3 22.9

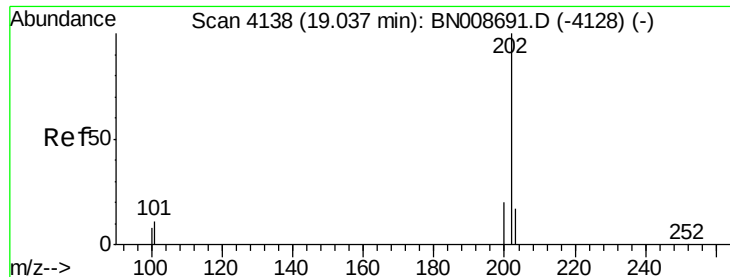


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 46.609 ng/ul

RT: 19.04 min Scan# 4139

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

Instrument :

BNA\_N

ClientSampleId :

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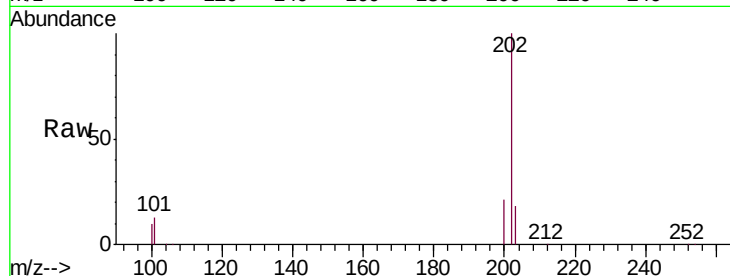
Tgt Ion:202 Resp: 3798450

Ion Ratio Lower Upper

202 100

101 12.7 0.0 29.6

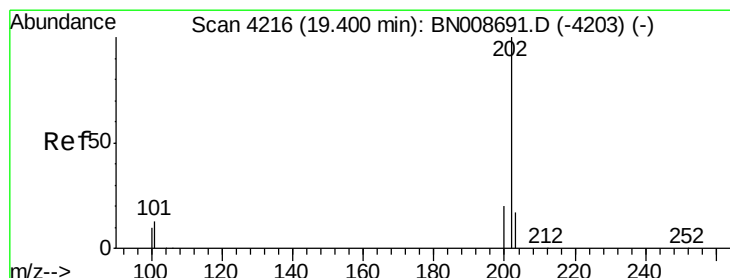
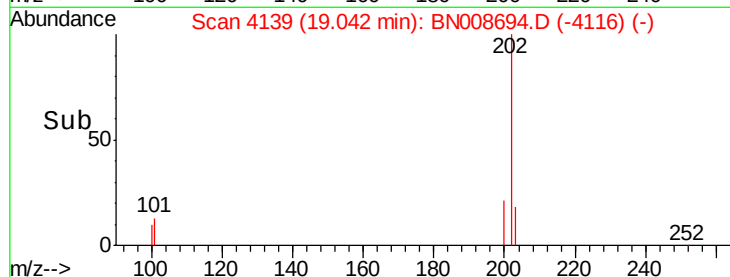
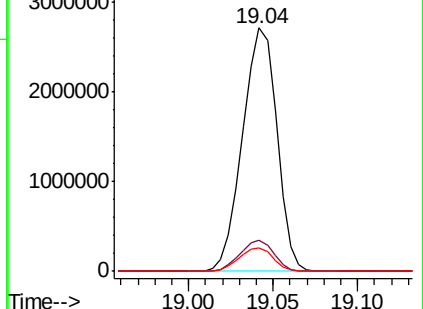
100 9.7 0.0 27.0



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: 67.018 ng/ul

RT: 19.40 min Scan# 4217

Delta R.T. 0.00 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

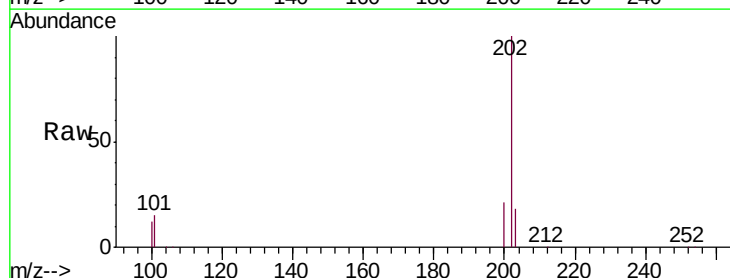
Tgt Ion:202 Resp: 3379099

Ion Ratio Lower Upper

202 100

101 15.1 10.2 15.2

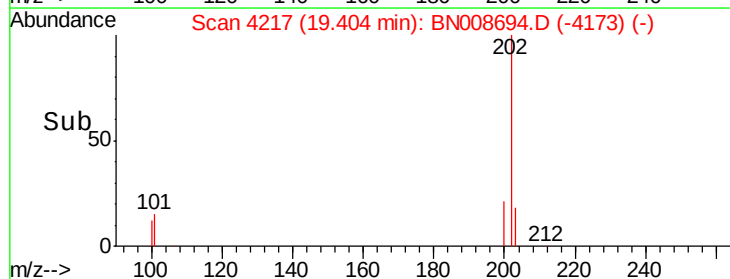
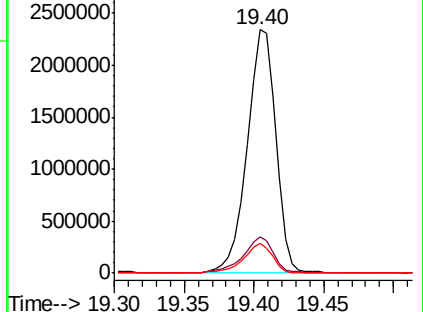
100 12.4 8.2 12.2#

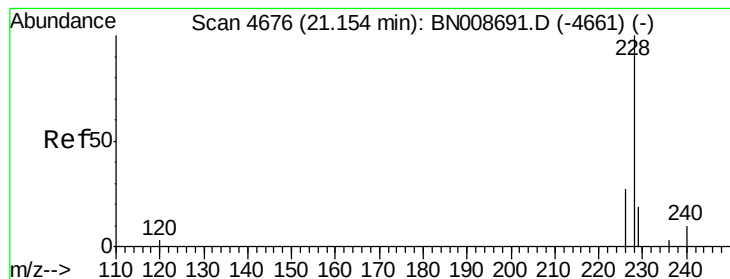


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#18

Benzo(a)anthracene

Concen: 32.450 ng/ul

RT: 21.16 min Scan# 4678

Delta R.T. 0.01 min

Lab File: BN008694.D

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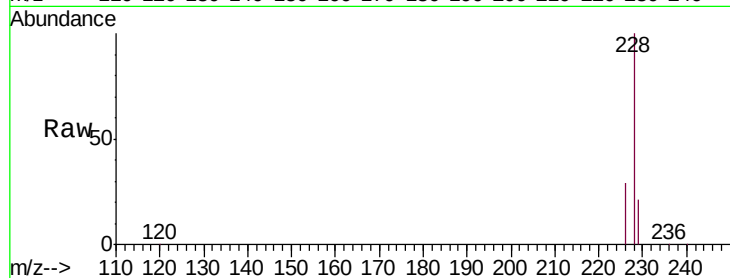
Tgt Ion:228 Resp: 1640112

Ion Ratio Lower Upper

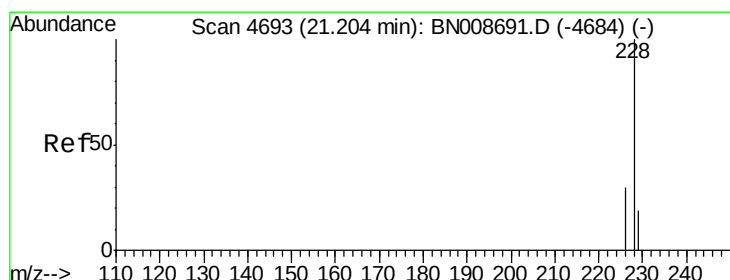
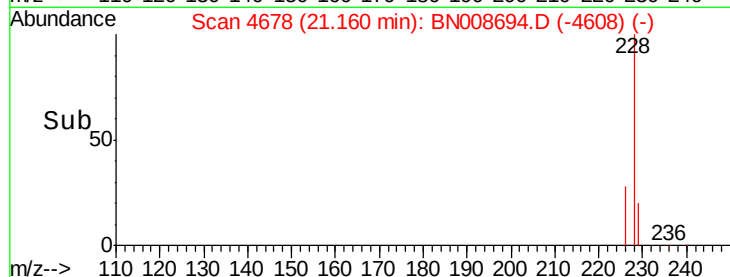
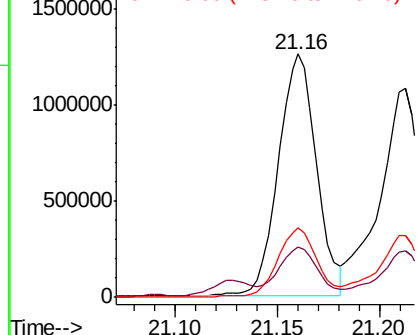
228 100

229 20.7 15.8 23.6

226 28.5 21.6 32.4



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: 30.514 ng/ul

RT: 21.21 min Scan# 4696

Delta R.T. 0.01 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

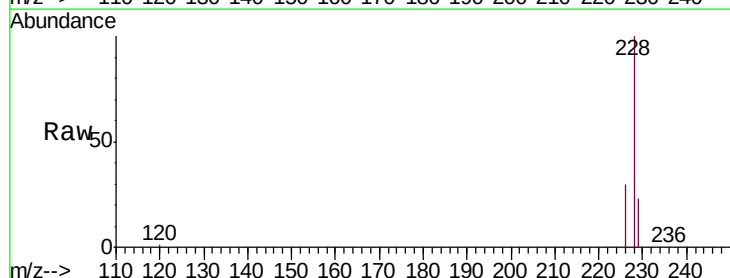
Tgt Ion:228 Resp: 1514786

Ion Ratio Lower Upper

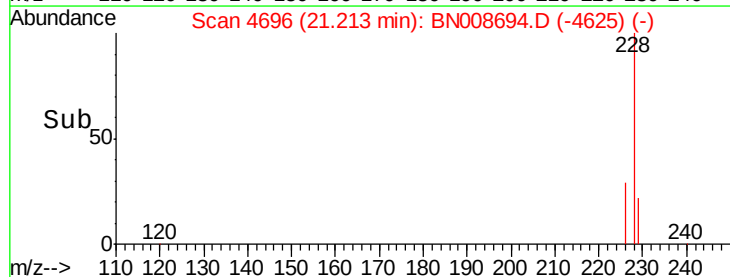
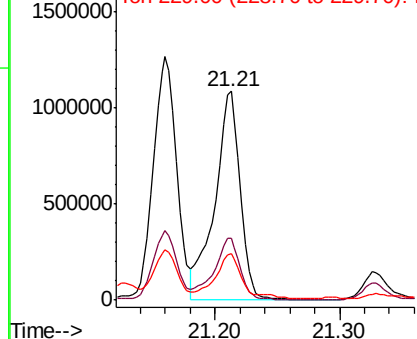
228 100

226 29.6 24.5 36.7

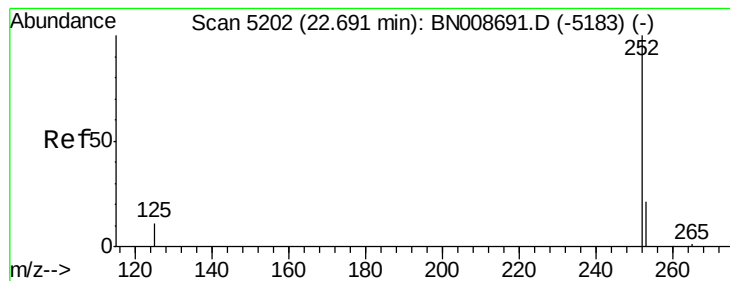
229 22.5 15.5 23.3



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: 35.226 ng/ul

RT: 22.70 min Scan# 5206

Delta R.T. 0.01 min

Lab File: BN008694.D

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Instrument :

BNA\_N

ClientSampleId :

C0AC6

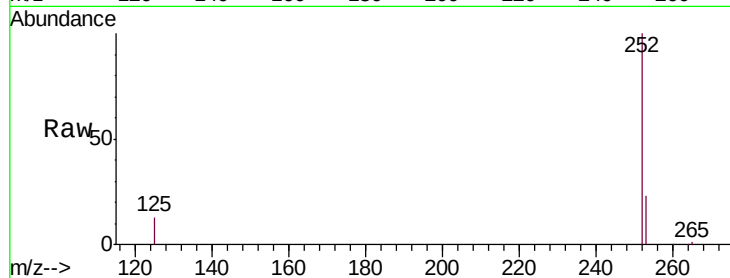
Tgt Ion:252 Resp: 2451554

Ion Ratio Lower Upper

252 100

253 23.0 0.0 50.2

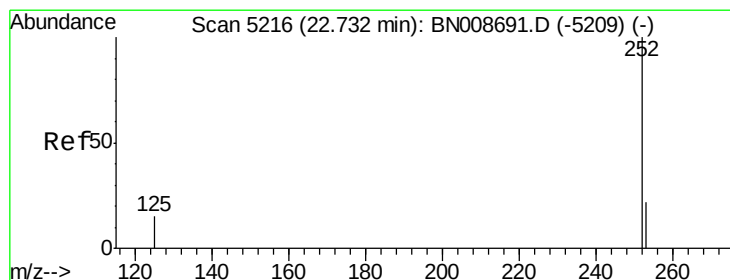
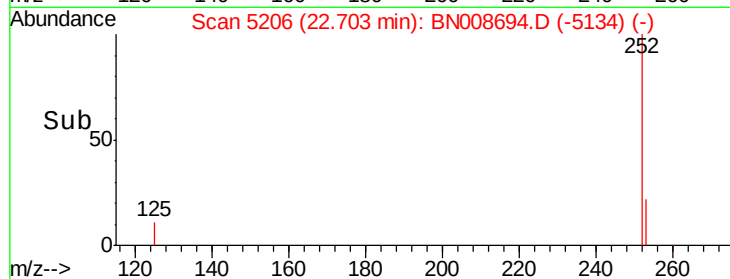
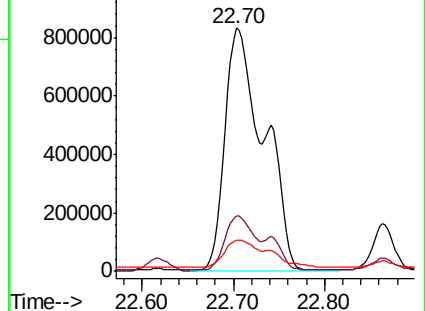
125 12.9 0.0 30.0



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



#22

Benzo(k)fluoranthene

Concen: 3.724 ng/ul

RT: 22.86 min Scan# 5261

Delta R.T. 0.13 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

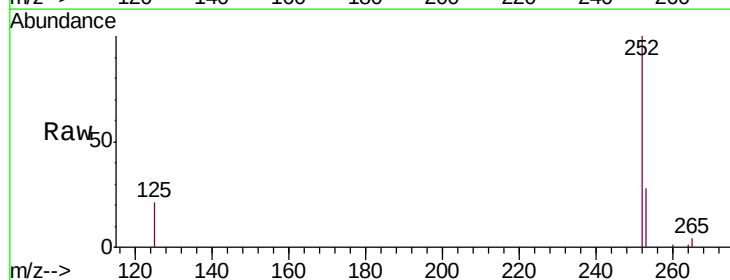
Tgt Ion:252 Resp: 257066

Ion Ratio Lower Upper

252 100

253 27.7 20.5 30.7

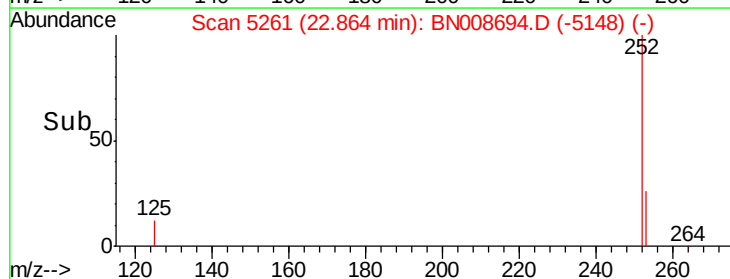
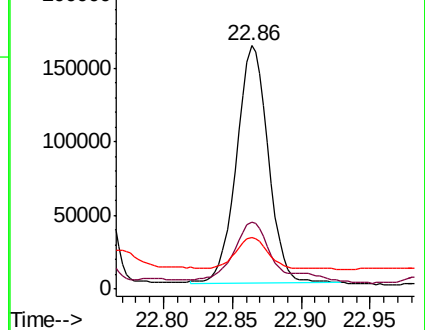
125 21.2 15.0 22.4

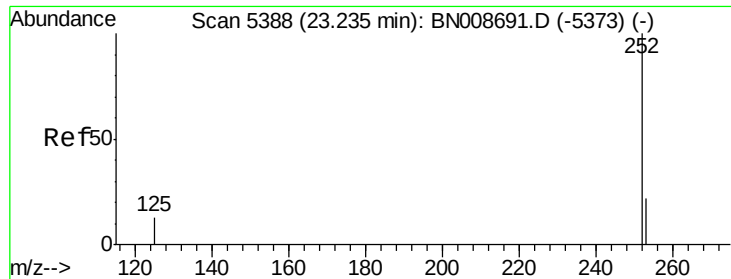


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 9.830 ng/ul

RT: 23.16 min Scan# 5362

Delta R.T. -0.08 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

Instrument :

BNA\_N

ClientSampleId :

C0AC6

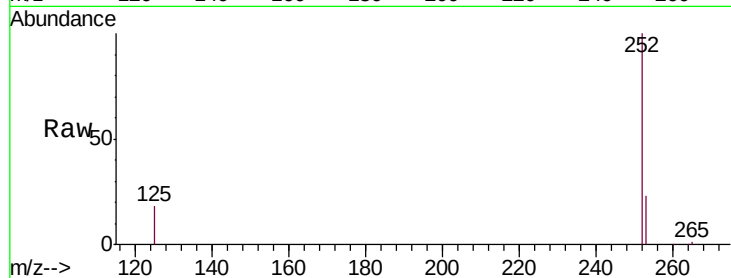
Tgt Ion:252 Resp: 642134

Ion Ratio Lower Upper

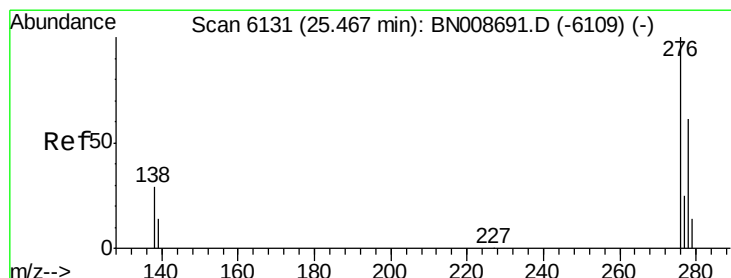
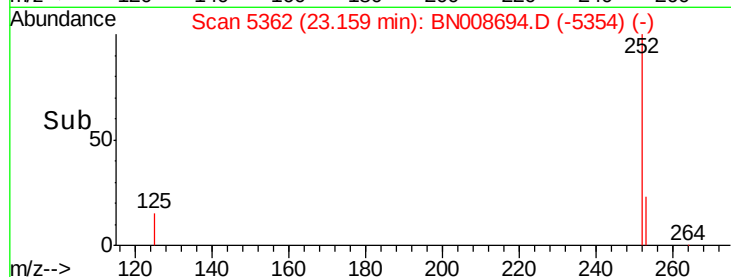
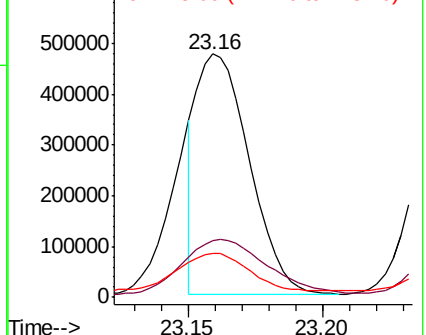
252 100

253 23.4 21.4 32.2

125 18.1 13.8 20.8



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: 9.688 ng/ul

RT: 25.48 min Scan# 6136

Delta R.T. 0.02 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

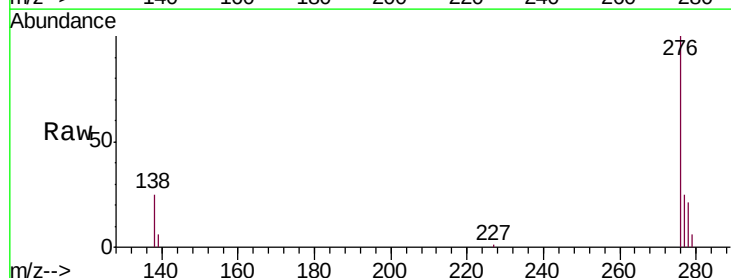
Tgt Ion:276 Resp: 740121

Ion Ratio Lower Upper

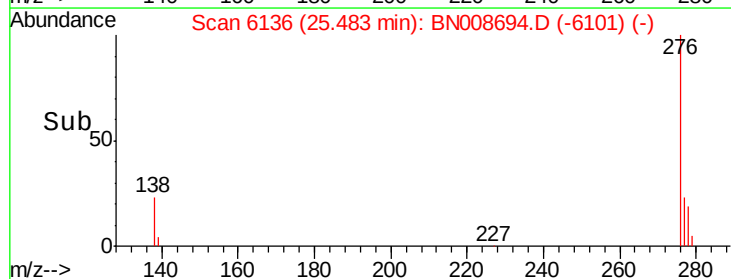
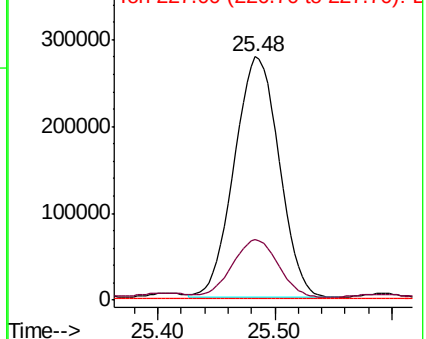
276 100

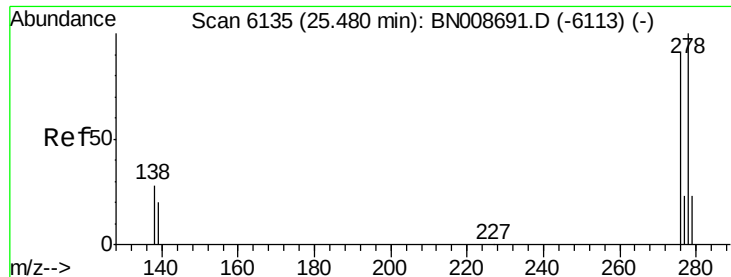
138 24.1 21.7 32.5

227 0.2 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: 2.951 ng/ul

RT: 25.49 min Scan# 6138

Delta R.T. 0.01 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

Instrument :

BNA\_N

ClientSampleId :

C0AC6

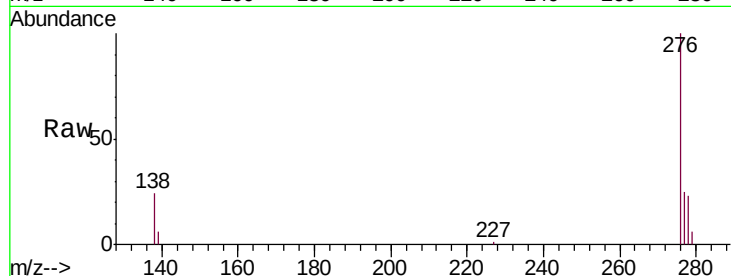
Tgt Ion:278 Resp: 182076

Ion Ratio Lower Upper

278 100

139 25.3 18.7 28.1

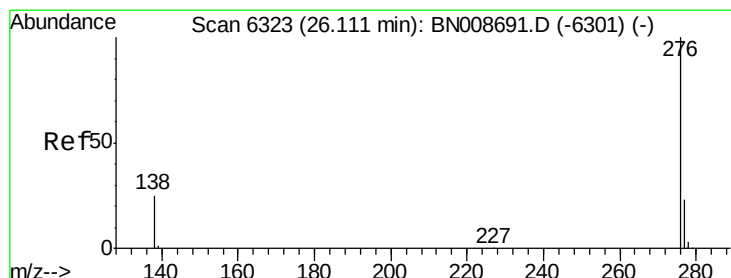
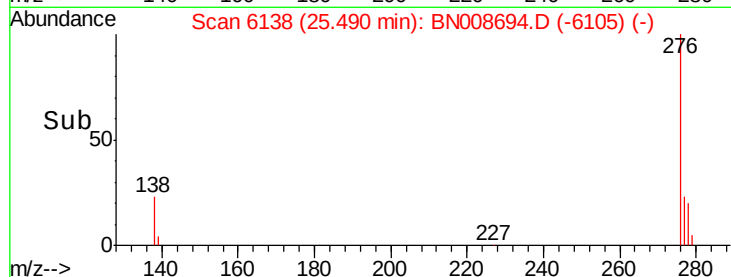
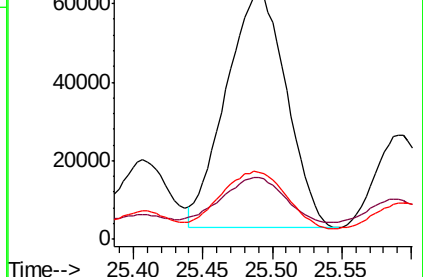
279 27.4 20.8 31.2



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: 10.773 ng/ul

RT: 26.14 min Scan# 6331

Delta R.T. 0.03 min

Lab File: BN008694.D

Acq: 22 Nov 2019 02:27

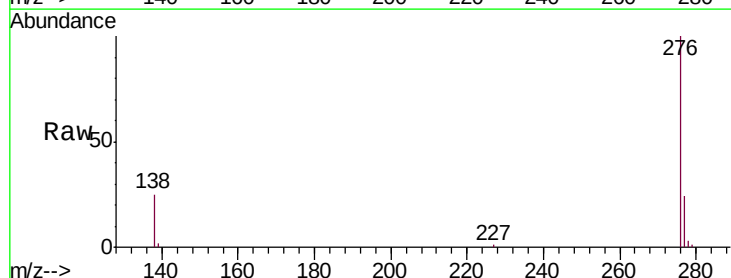
Tgt Ion:276 Resp: 688497

Ion Ratio Lower Upper

276 100

138 25.1 20.0 30.0

277 24.2 20.0 30.0



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

