

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM112116\  
 Data File : BM007973.D  
 Acq On : 22 Nov 2016 00:04  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.445

Quant Time: Nov 22 05:01:32 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 22 04:57:47 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 440      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.52 | 136  | 1457     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.37 | 164  | 853      | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.12 | 188  | 1735     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.31 | 240  | 1895     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.56 | 264  | 1711     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.12 | 152  | 819      | 0.40 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.15 | 212  | 1912     | 0.39 | ng/ul | 0.00     |

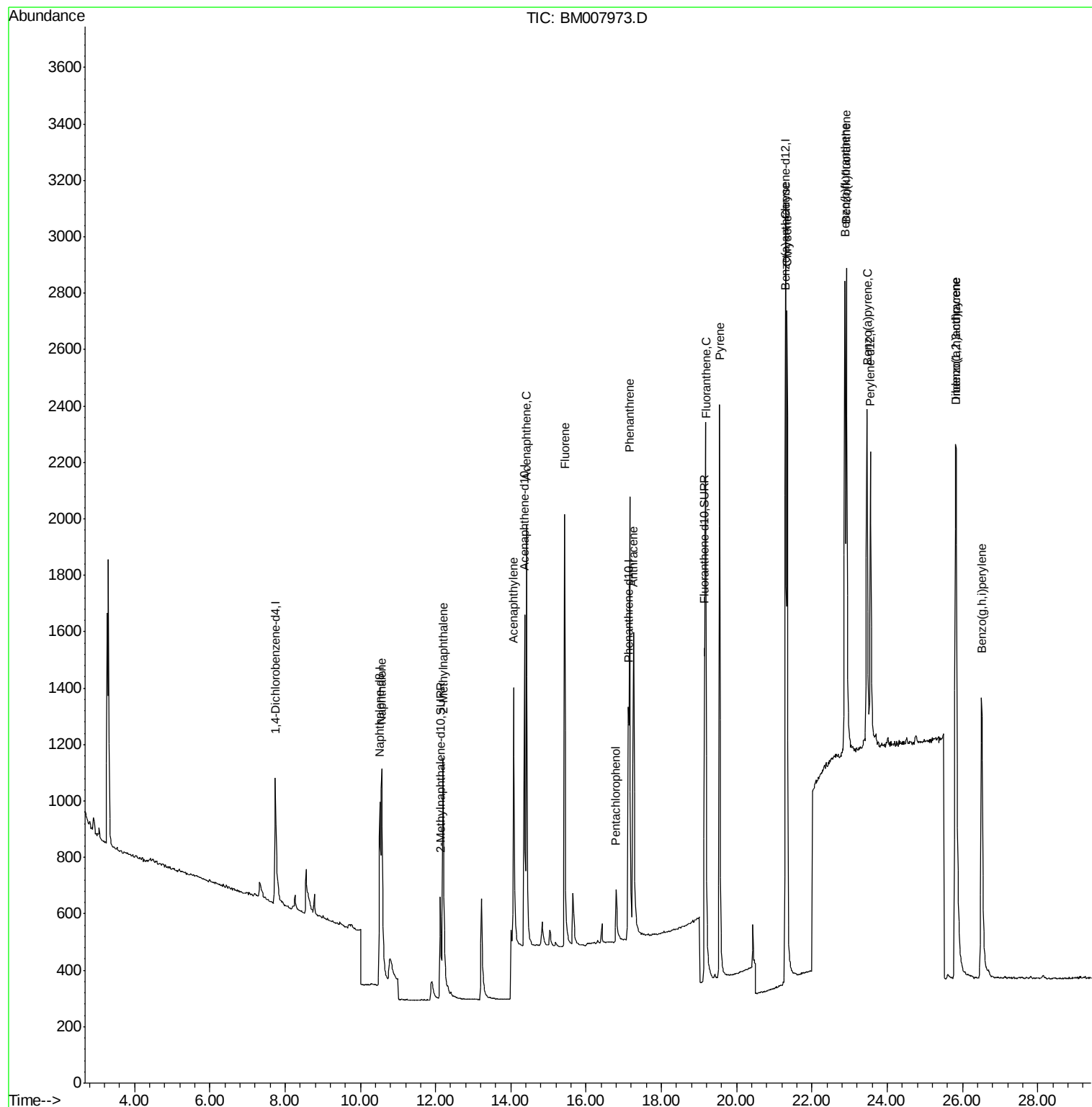
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.57 | 128  | 1645     | 0.40 | ng/ul# | 90     |
| 5) 2-Methylnaphthalene     | 12.19 | 142  | 1051     | 0.40 | ng/ul  | 98     |
| 7) Acenaphthylene          | 14.07 | 152  | 1560     | 0.40 | ng/ul# | 92     |
| 8) Acenaphthene            | 14.42 | 153  | 1169     | 0.40 | ng/ul  | 92     |
| 9) Fluorene                | 15.43 | 166  | 1354     | 0.40 | ng/ul  | 90     |
| 11) Pentachlorophenol      | 16.80 | 266  | 224      | 0.37 | ng/ul  | 95     |
| 12) Phenanthrene           | 17.16 | 178  | 2156     | 0.40 | ng/ul  | 96     |
| 13) Anthracene             | 17.26 | 178  | 1954     | 0.39 | ng/ul  | 97     |
| 15) Fluoranthene           | 19.19 | 202  | 2810     | 0.40 | ng/ul  | 96     |
| 17) Pyrene                 | 19.55 | 202  | 2745     | 0.42 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.30 | 228  | 2338     | 0.40 | ng/ul  | 98     |
| 19) Chrysene               | 21.34 | 228  | 2788     | 0.39 | ng/ul  | 93     |
| 21) Benzo(b)fluoranthene   | 22.88 | 252  | 2837     | 0.42 | ng/ul  | 95     |
| 22) Benzo(k)fluoranthene   | 22.92 | 252  | 2657     | 0.38 | ng/ul  | 96     |
| 23) Benzo(a)pyrene         | 23.47 | 252  | 2564     | 0.40 | ng/ul  | 95     |
| 24) Indeno(1,2,3-cd)pyrene | 25.82 | 276  | 3139     | 0.40 | ng/ul  | 95     |
| 25) Dibenzo(a,h)anthracene | 25.83 | 278  | 2496     | 0.39 | ng/ul  | 96     |
| 26) Benzo(g,h,i)perylene   | 26.51 | 276  | 2760     | 0.39 | ng/ul  | 95     |

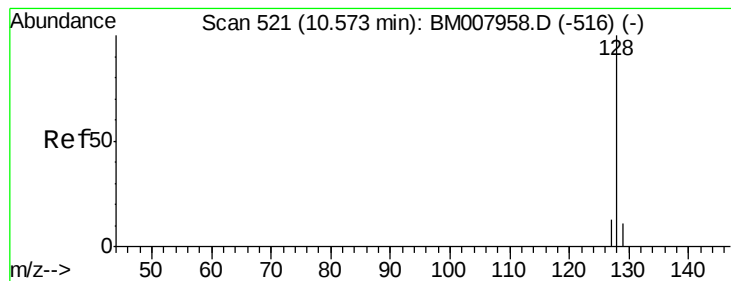
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM112116\  
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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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SSTD0.445

Quant Time: Nov 22 05:01:32 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 22 04:57:47 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.40 ng/ul

RT: 10.57 min Scan# 521

Delta R.T. -0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

Instrument :

BNA\_M

ClientSampleId :

SSTD0.445

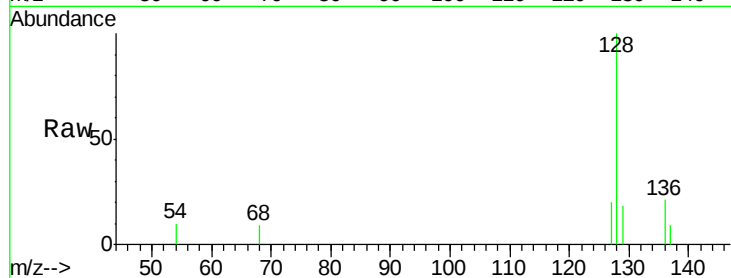
Tgt Ion:128 Resp: 1645

Ion Ratio Lower Upper

128 100

129 18.4 11.3 16.9#

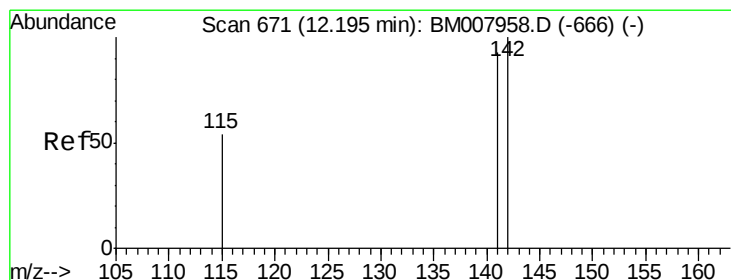
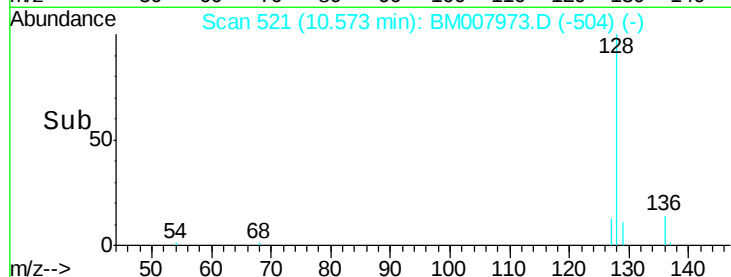
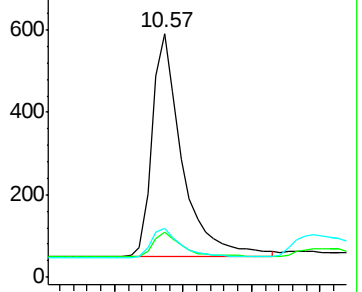
127 20.1 12.8 19.2#



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: 0.40 ng/ul

RT: 12.19 min Scan# 671

Delta R.T. -0.00 min

Lab File: BM007973.D

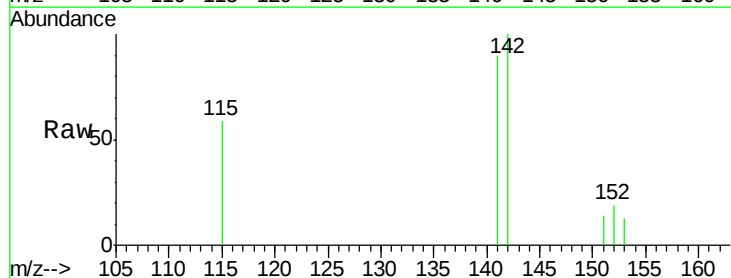
Acq: 22 Nov 2016 00:04

Tgt Ion:142 Resp: 1051

Ion Ratio Lower Upper

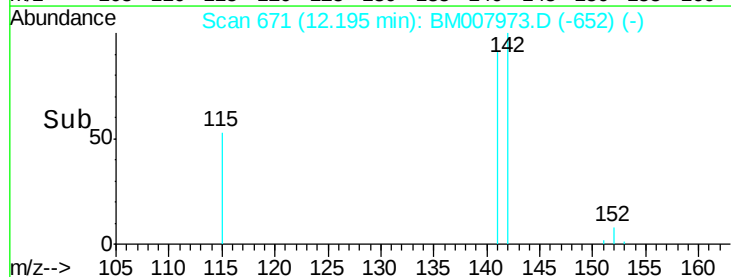
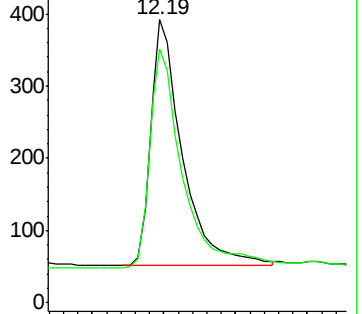
142 100

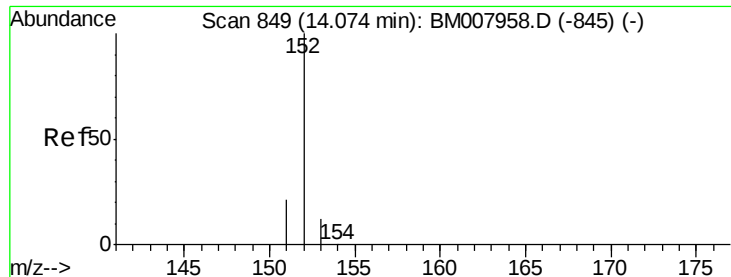
141 93.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.40 ng/ul

RT: 14.07 min Scan# 849

Delta R.T. -0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

Instrument :

BNA\_M

ClientSampleId :

SSTD0.445

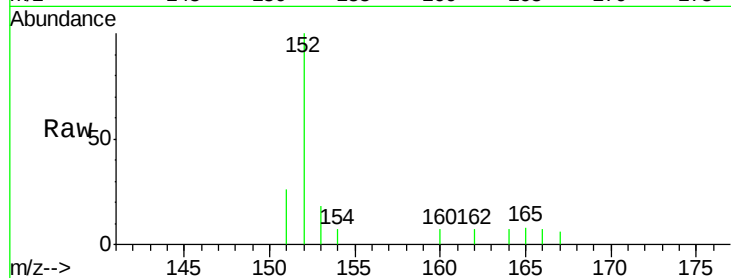
Tgt Ion:152 Resp: 1560

Ion Ratio Lower Upper

152 100

151 26.0 17.1 25.7#

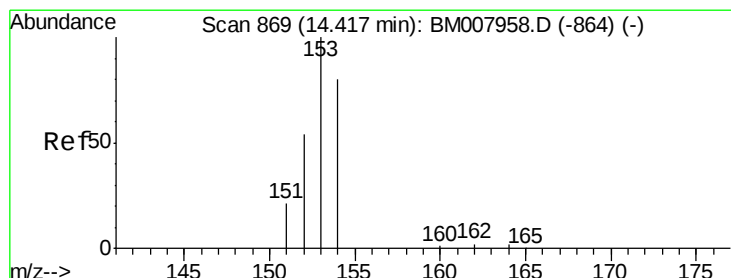
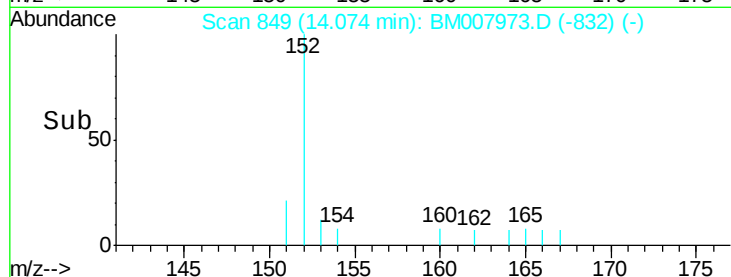
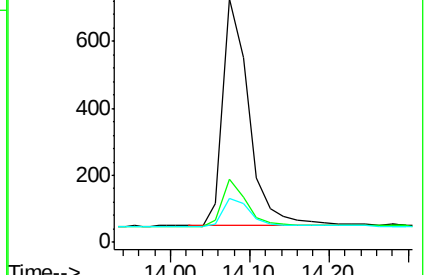
153 18.2 12.8 19.2



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: 0.40 ng/ul

RT: 14.42 min Scan# 869

Delta R.T. -0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

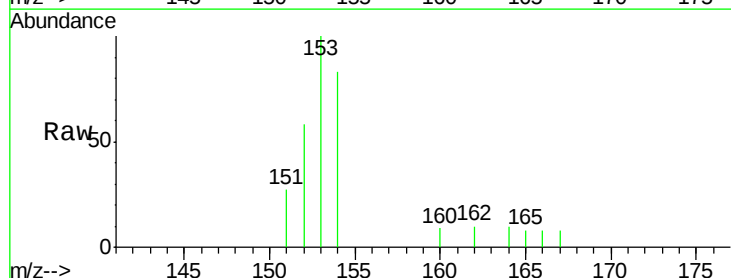
Tgt Ion:153 Resp: 1169

Ion Ratio Lower Upper

153 100

152 57.6 40.3 60.5

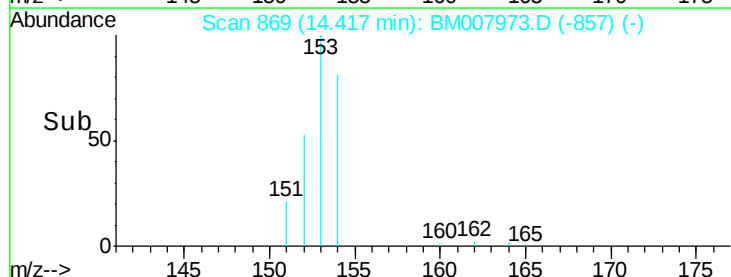
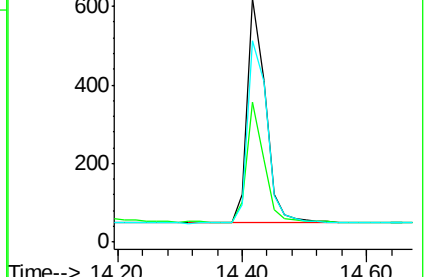
154 82.6 71.4 107.2

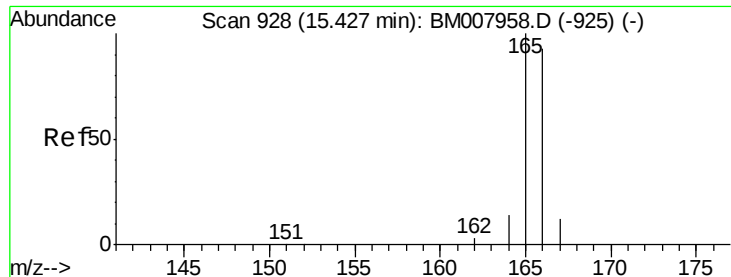


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

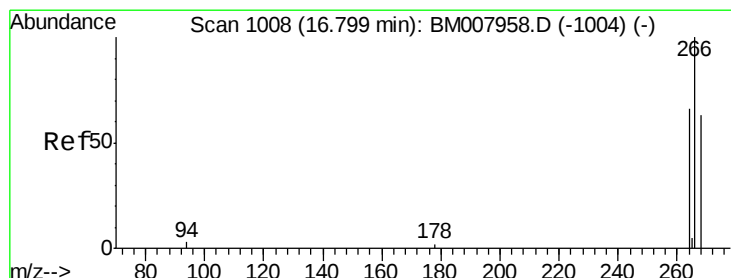
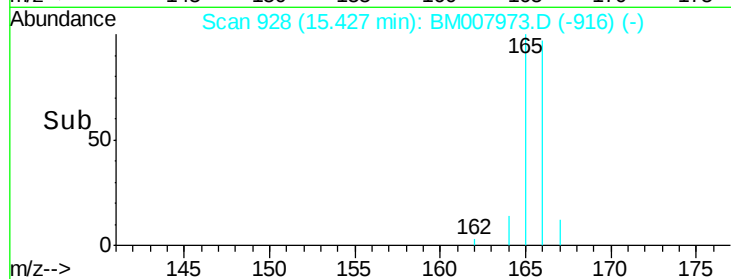
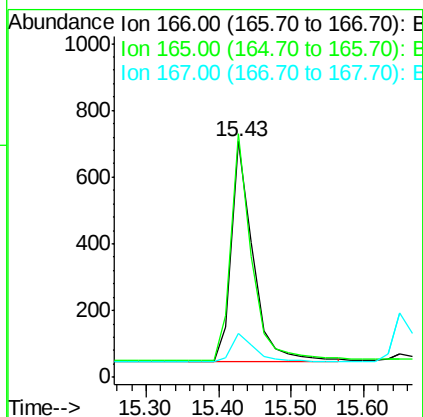
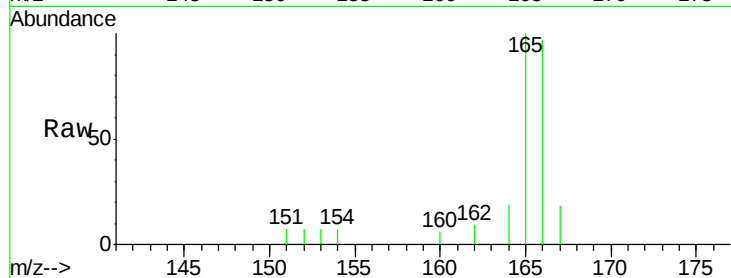




#9  
**Fluorene**  
 Concen: 0.40 ng/ul  
 RT: 15.43 min Scan# 928  
 Delta R.T. -0.00 min  
 Lab File: BM007973.D  
 Acq: 22 Nov 2016 00:04

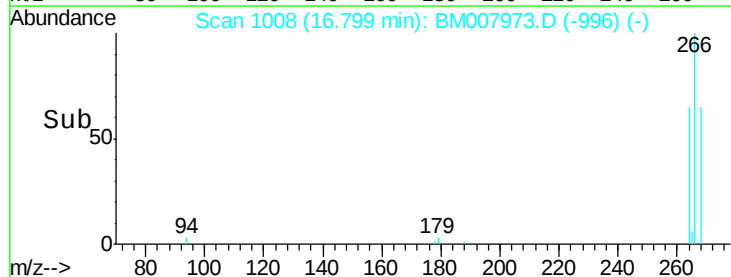
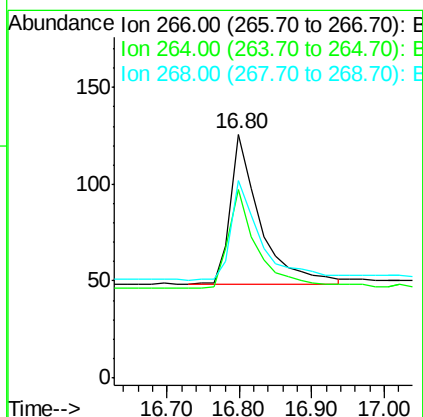
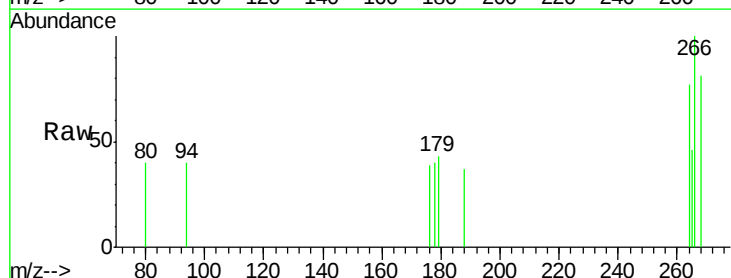
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.445

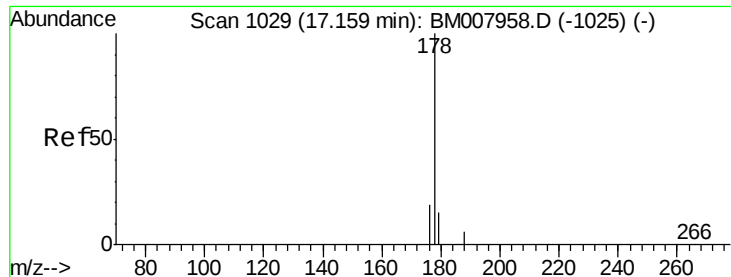
Tgt Ion:166 Resp: 1354  
 Ion Ratio Lower Upper  
 166 100  
 165 103.3 73.4 110.2  
 167 18.4 14.6 22.0



#11  
**Pentachlorophenol**  
 Concen: 0.37 ng/ul  
 RT: 16.80 min Scan# 1008  
 Delta R.T. -0.00 min  
 Lab File: BM007973.D  
 Acq: 22 Nov 2016 00:04

Tgt Ion:266 Resp: 224  
 Ion Ratio Lower Upper  
 266 100  
 264 63.4 47.9 71.9  
 268 66.5 49.8 74.8





#12

Phenanthrene

Concen: 0.40 ng/ul

RT: 17.16 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

Instrument :

BNA\_M

ClientSampleId :

SSTD0.445

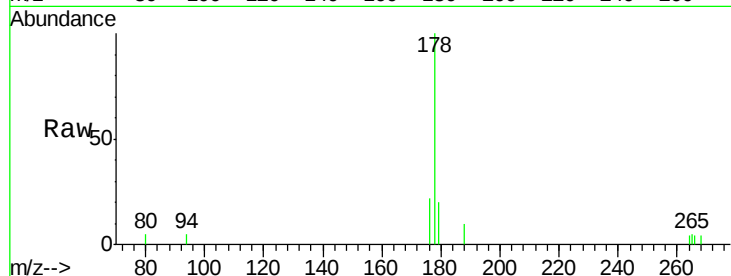
Tgt Ion:178 Resp: 2156

Ion Ratio Lower Upper

178 100

176 21.8 18.4 27.6

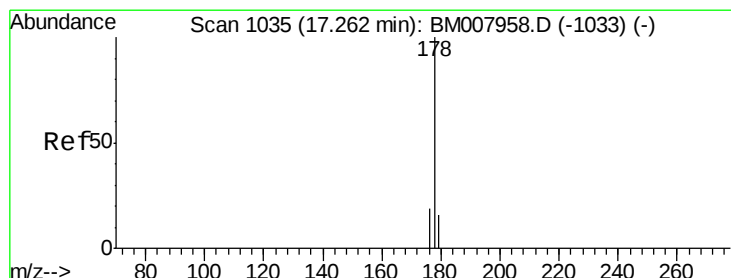
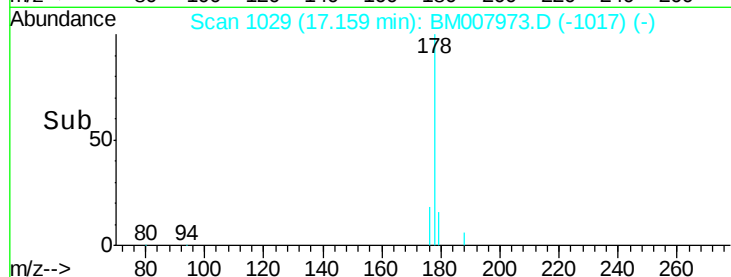
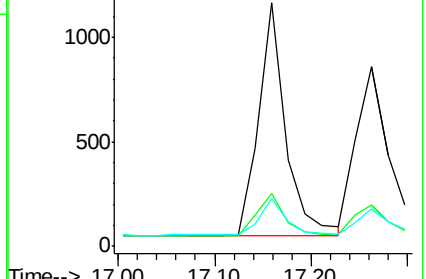
179 19.5 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#13

Anthracene

Concen: 0.39 ng/ul

RT: 17.26 min Scan# 1035

Delta R.T. -0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

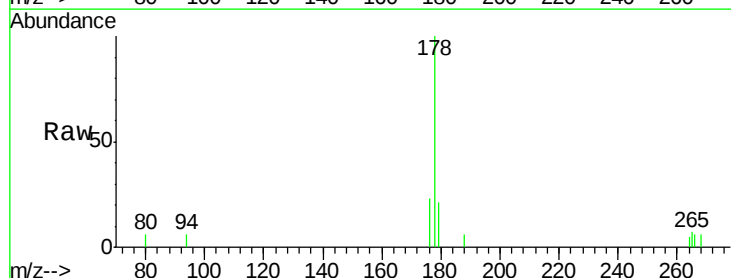
Tgt Ion:178 Resp: 1954

Ion Ratio Lower Upper

178 100

176 23.1 18.1 27.1

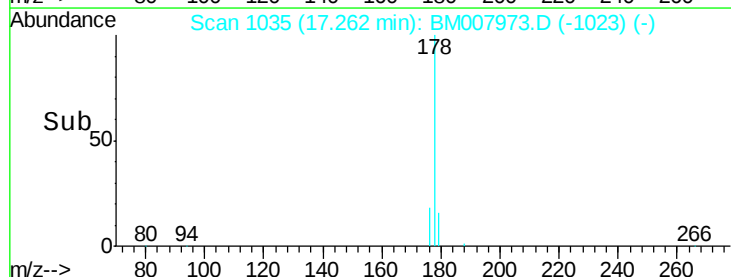
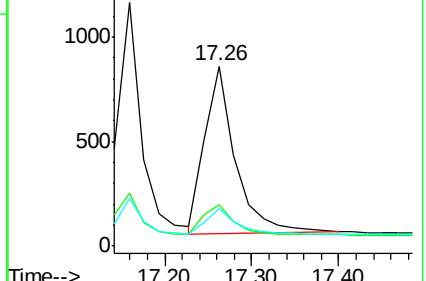
179 21.1 14.7 22.1

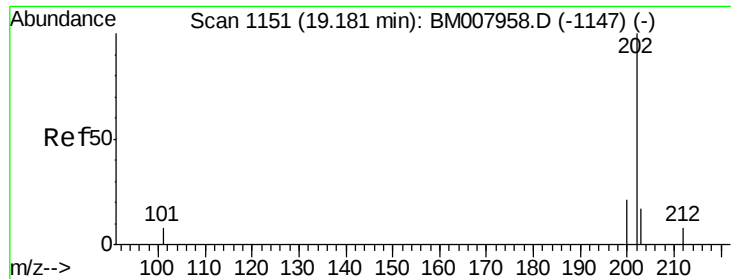


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.40 ng/ul

RT: 19.19 min Scan# 1151

Delta R.T. 0.01 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

Instrument :

BNA\_M

ClientSampleId :

SSTD0.445

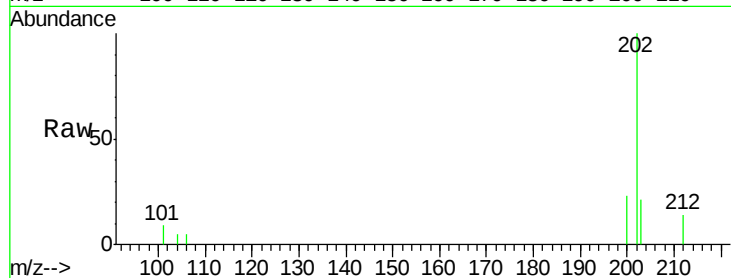
Tgt Ion:202 Resp: 2810

Ion Ratio Lower Upper

202 100

101 9.3 0.0 30.3

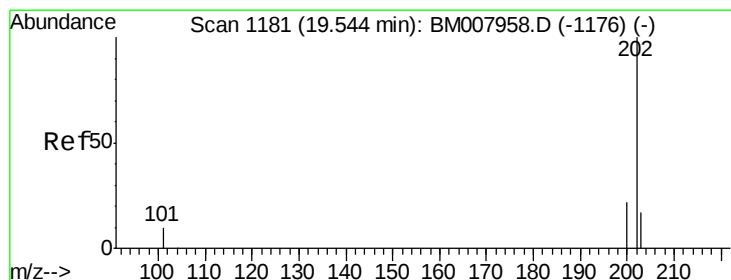
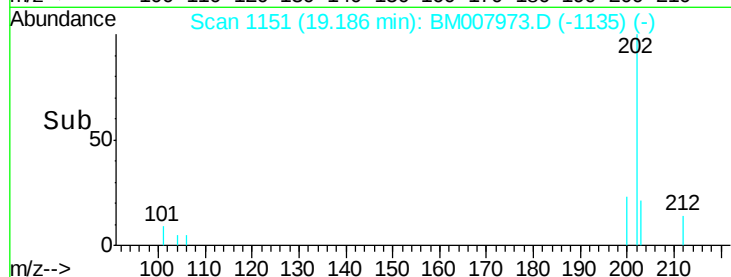
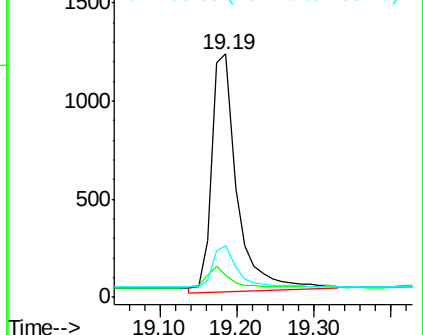
203 21.4 0.0 39.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#17

Pyrene

Concen: 0.42 ng/ul

RT: 19.55 min Scan# 1181

Delta R.T. 0.01 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

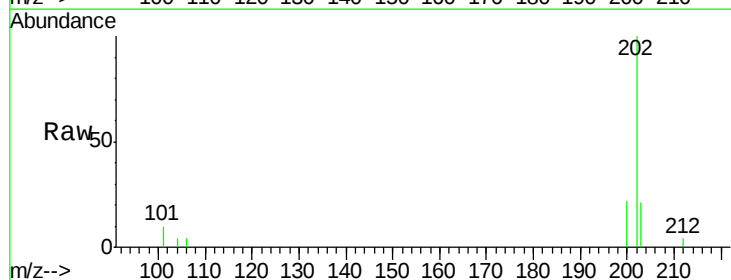
Tgt Ion:202 Resp: 2745

Ion Ratio Lower Upper

202 100

200 22.2 18.2 27.4

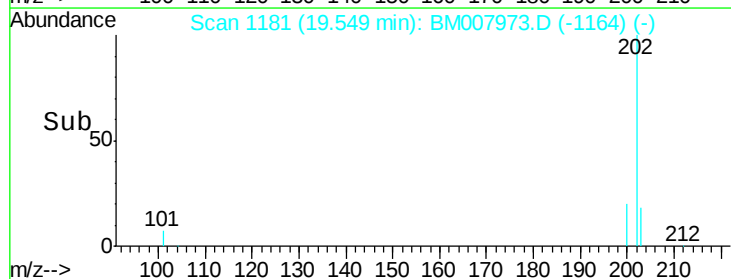
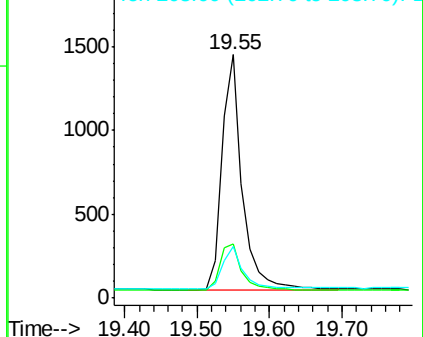
203 21.4 15.6 23.4

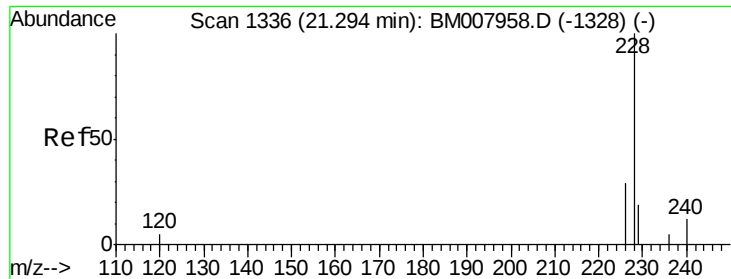


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.40 ng/ul

RT: 21.30 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

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ClientSampleId :

SSTD0.445

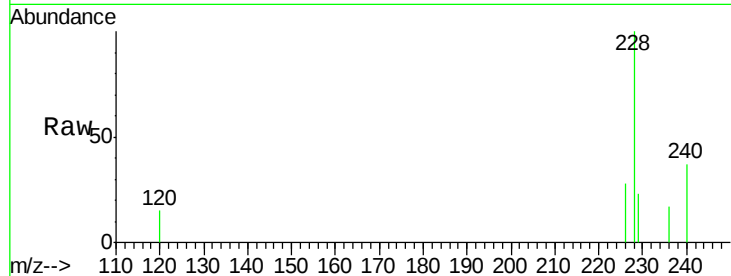
Tgt Ion:228 Resp: 2338

Ion Ratio Lower Upper

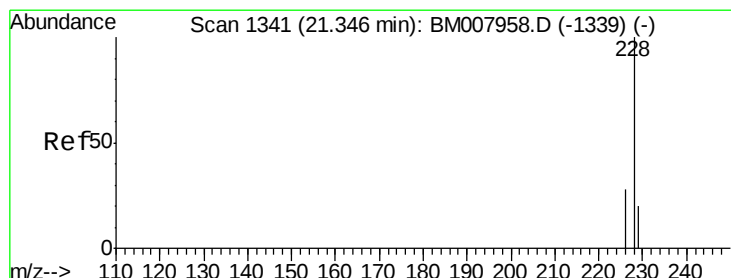
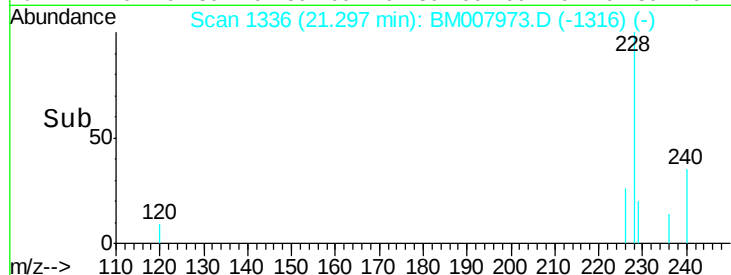
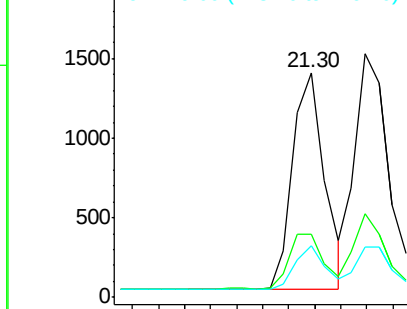
228 100

226 28.3 22.8 34.2

229 23.2 17.0 25.6



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



#19

Chrysene

Concen: 0.39 ng/ul

RT: 21.34 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

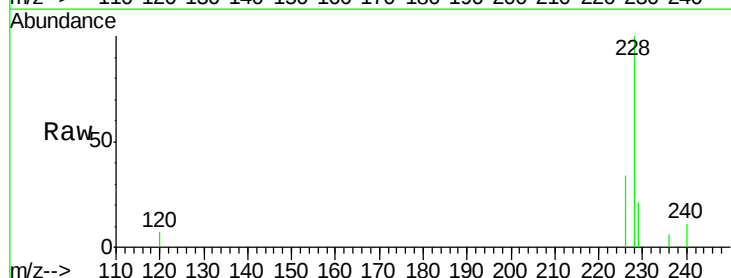
Tgt Ion:228 Resp: 2788

Ion Ratio Lower Upper

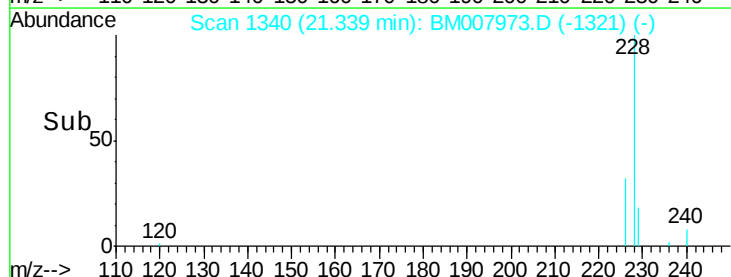
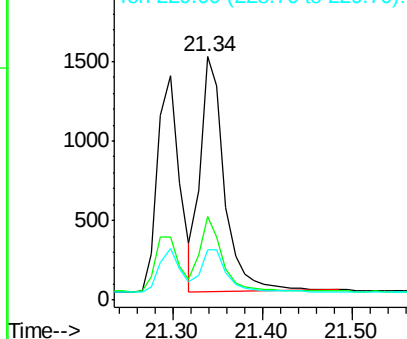
228 100

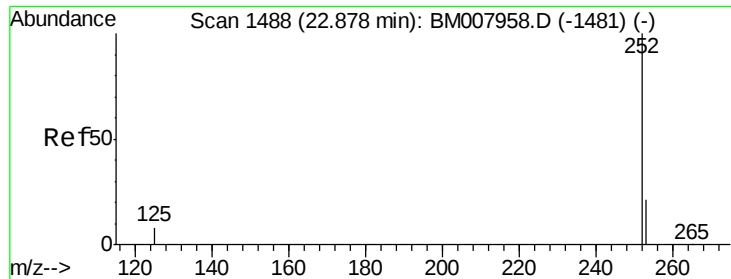
226 34.3 23.4 35.0

229 20.8 17.7 26.5



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: 0.42 ng/u1

RT: 22.88 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

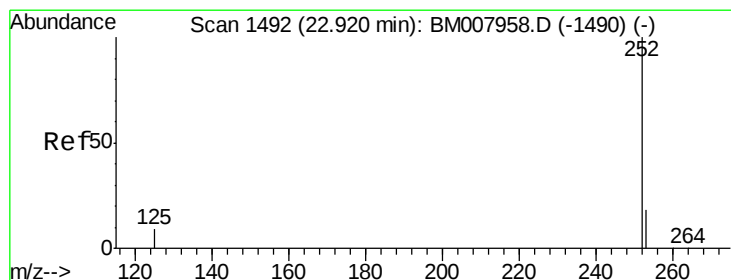
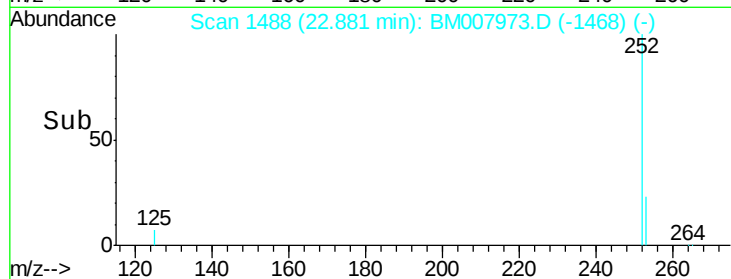
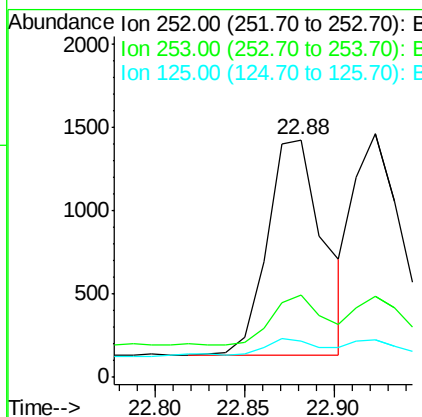
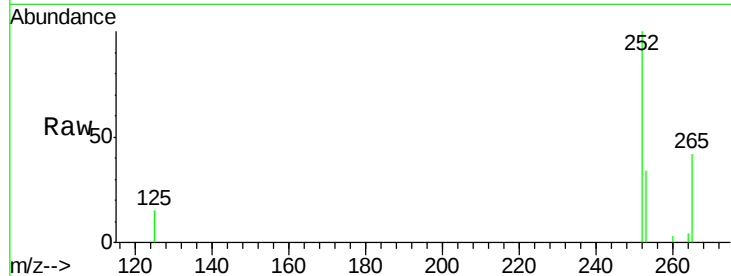
Instrument :

BNA\_M

ClientSampleId :

SSTD0.445

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 2837  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 34.4  | 0.0   | 64.2  |
| 125      | 15.2  | 0.0   | 35.0  |



#22

Benzo(k)fluoranthene

Concen: 0.38 ng/u1

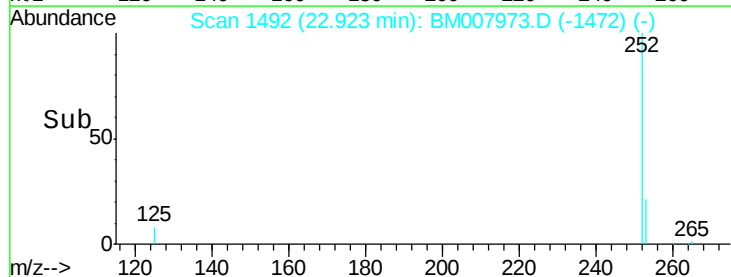
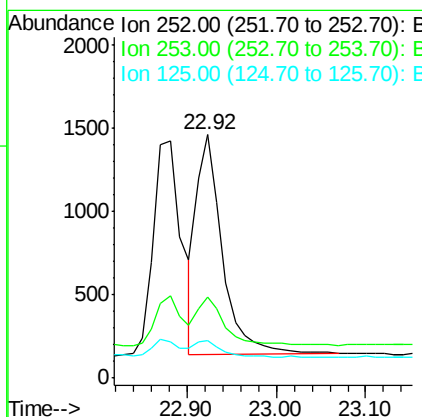
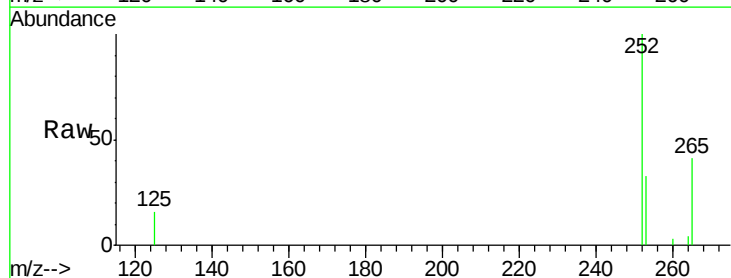
RT: 22.92 min Scan# 1492

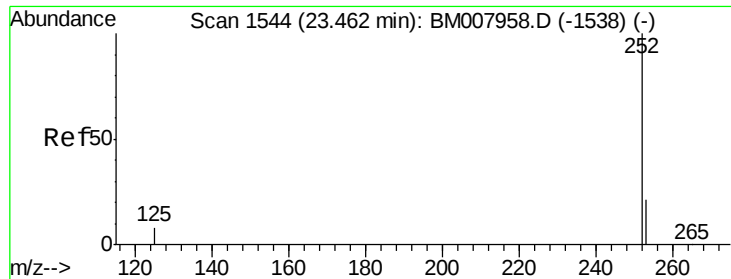
Delta R.T. 0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 2657  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 33.2  | 24.5  | 36.7  |
| 125      | 15.6  | 13.7  | 20.5  |





#23

Benzo(a)pyrene

Concen: 0.40 ng/ul

RT: 23.47 min Scan# 1544

Delta R.T. 0.00 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

Instrument :

BNA\_M

ClientSampleId :

SSTD0.445

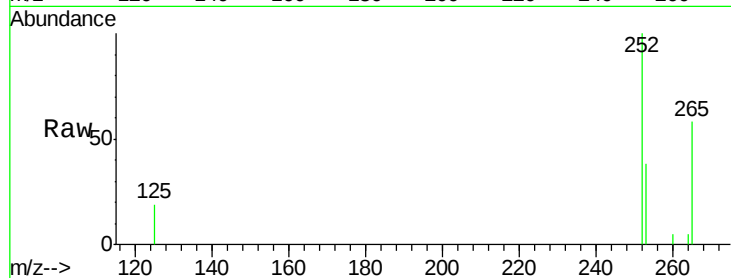
Tgt Ion:252 Resp: 2564

Ion Ratio Lower Upper

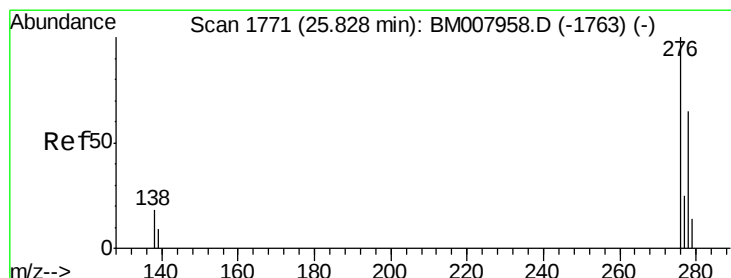
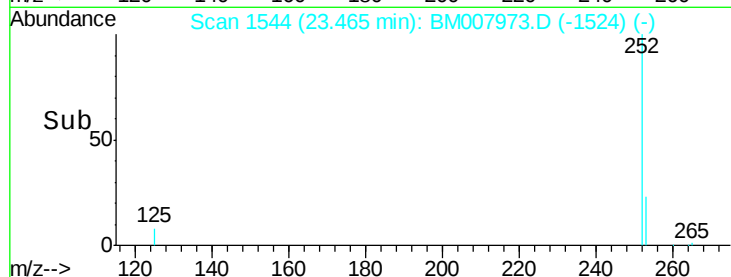
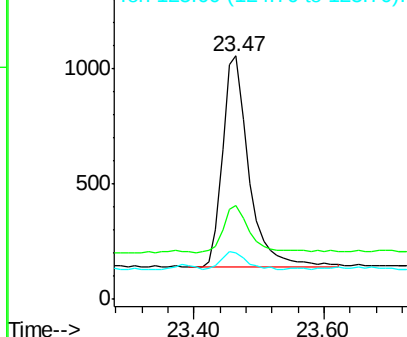
252 100

253 38.3 28.5 42.7

125 19.3 18.1 27.1



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: 0.40 ng/ul

RT: 25.82 min Scan# 1770

Delta R.T. -0.01 min

Lab File: BM007973.D

Acq: 22 Nov 2016 00:04

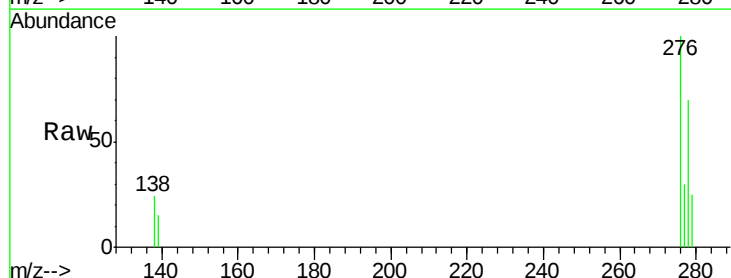
Tgt Ion:276 Resp: 3139

Ion Ratio Lower Upper

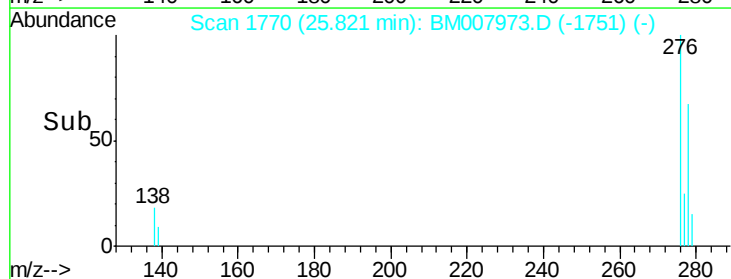
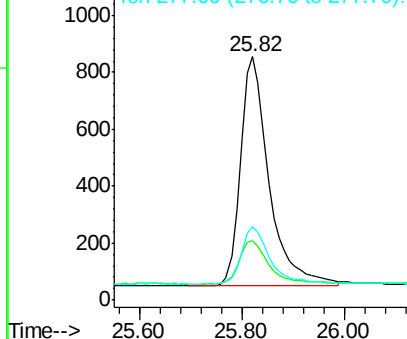
276 100

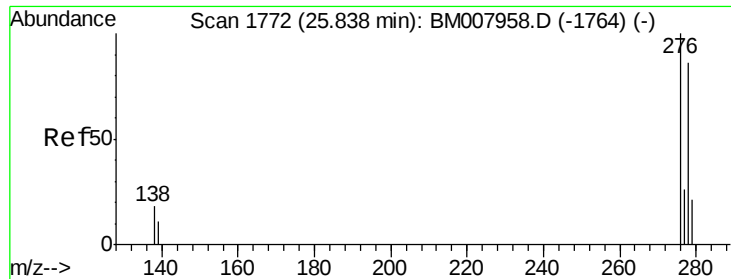
138 19.7 19.1 28.7

277 24.8 19.6 29.4



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

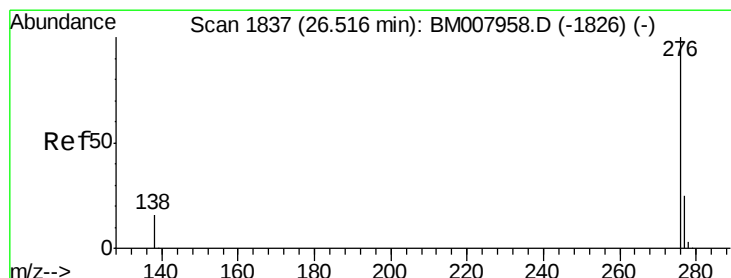
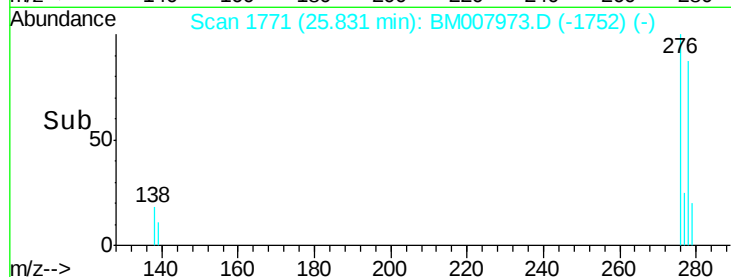
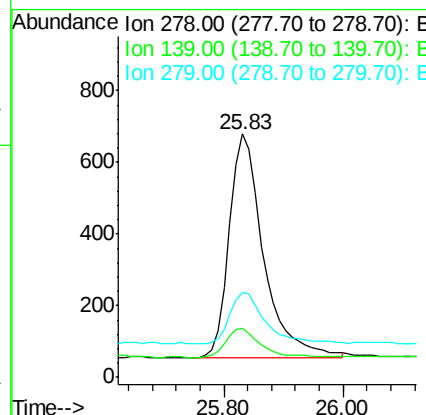
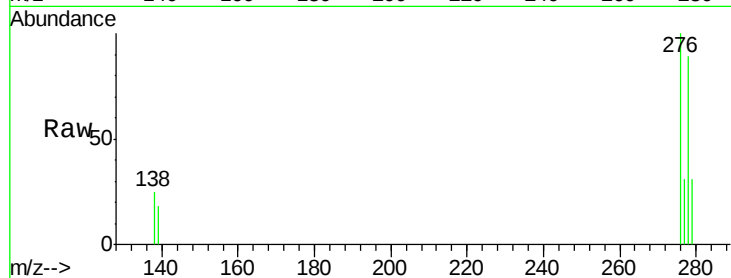




#25  
Dibenzo(a,h)anthracene  
Concen: 0.39 ng/ul  
RT: 25.83 min Scan# 1771  
Delta R.T. -0.01 min  
Lab File: BM007973.D  
Acq: 22 Nov 2016 00:04

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.445

Tgt Ion: 278 Resp: 2496  
Ion Ratio Lower Upper  
278 100  
139 20.3 17.4 26.0  
279 35.1 25.9 38.9



#26  
Benzo(g,h,i)perylene  
Concen: 0.39 ng/ul  
RT: 26.51 min Scan# 1836  
Delta R.T. -0.01 min  
Lab File: BM007973.D  
Acq: 22 Nov 2016 00:04

Tgt Ion: 276 Resp: 2760  
Ion Ratio Lower Upper  
276 100  
277 29.4 21.8 32.8  
138 22.8 20.5 30.7

