

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
 Data File : BM013959.D  
 Acq On : 29 Jan 2018 15:23  
 Operator : SJ/JU  
 Sample : J1243-12 20X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B35

Quant Time: Jan 30 01:13:40 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 30 01:10:58 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 89653    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.35 | 136  | 380838   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 248706   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 574766   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.18 | 240  | 660401   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.36 | 264  | 634075   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0      | 0.00  | ng/uL |       |
| 5) Phenol-d5                   | 6.78  | 99  | 2660   | 0.39  | ng/ul | 0.01  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 4284   | 1.03  | ng/ul | 0.01  |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 6646   | 1.19  | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.32  | 113 | 3676   | 0.69  | ng/ul | 0.03  |
| 19) Nitrobenzene-d5            | 8.75  | 128 | 1833   | 0.62  | ng/ul | 0.02  |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 3865   | 1.24  | ng/ul | 0.02  |
| 26) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 3215   | 0.53  | ng/ul | 0.04  |
| 29) 4-Chloroaniline-d4         | 10.53 | 131 | 5739   | 1.10  | ng/ul | 0.03  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 29134  | 1.42  | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 33836  | 1.29  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 532    | 0.16  | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.23 | 176 | 26643  | 1.48  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.39 | 200 | 567    | 0.16  | ng/ul | 0.02  |
| 70) Anthracene-d10             | 16.98 | 188 | 574766 | 20.53 | ng/ul | -0.10 |
| 76) Pyrene-d10                 | 19.38 | 212 | 47115  | 1.53  | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.23 | 264 | 42360  | 1.45  | ng/ul | 0.00  |

## Target Compounds

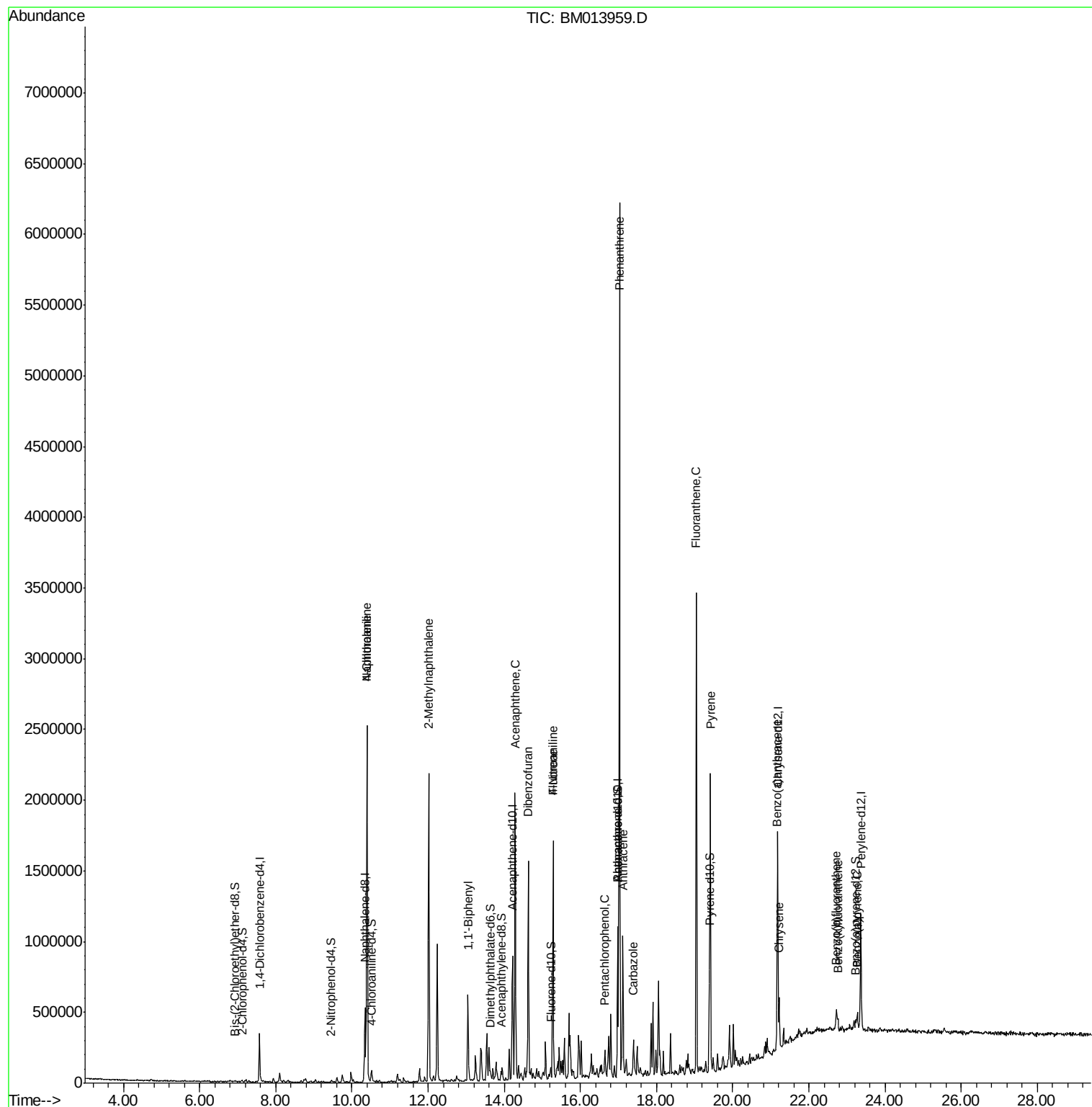
|                          |       |     |         |         | Ovalue |    |
|--------------------------|-------|-----|---------|---------|--------|----|
| 28) Naphthalene          | 10.39 | 128 | 1884493 | 99.463  | ng/ul  | 98 |
| 30) 4-Chloroaniline      | 10.40 | 127 | 244954  | 47.201  | ng/ul# | 18 |
| 34) 2-Methylnaphthalene  | 12.02 | 142 | 950497  | 67.287  | ng/ul  | 92 |
| 40) 1,1'-Biphenyl        | 13.05 | 154 | 247786  | 11.969  | ng/ul  | 99 |
| 49) Acenaphthene         | 14.29 | 153 | 783832  | 47.323  | ng/ul  | 99 |
| 53) Dibenzofuran         | 14.63 | 168 | 864835  | 34.707  | ng/ul  | 96 |
| 58) Fluorene             | 15.28 | 166 | 679340  | 33.282  | ng/ul  | 96 |
| 60) 4-Nitroaniline       | 15.28 | 138 | 9888    | 2.751   | ng/ul# | 16 |
| 68) Pentachlorophenol    | 16.64 | 266 | 25658   | 6.608   | ng/ul  | 89 |
| 69) Phenanthrene         | 17.03 | 178 | 3627584 | 113.543 | ng/ul  | 99 |
| 71) Anthracene           | 17.12 | 178 | 602826  | 18.293  | ng/ul  | 98 |
| 72) Carbazole            | 17.39 | 167 | 141385  | 5.198   | ng/ul  | 97 |
| 74) Fluoranthene         | 19.05 | 202 | 2033321 | 53.316  | ng/ul# | 99 |
| 77) Pyrene               | 19.41 | 202 | 1281066 | 31.909  | ng/ul# | 95 |
| 80) Benzo(a)anthracene   | 21.17 | 228 | 271683  | 6.808   | ng/ul  | 99 |
| 82) Chrysene             | 21.22 | 228 | 205588  | 5.616   | ng/ul  | 98 |
| 85) Benzo(b)fluoranthene | 22.72 | 252 | 122850  | 3.155   | ng/ul# | 92 |
| 86) Benzo(k)fluoranthene | 22.76 | 252 | 38496   | 1.023   | ng/ul# | 95 |
| 88) Benzo(a)pyrene       | 23.27 | 252 | 62876   | 1.709   | ng/ul# | 98 |

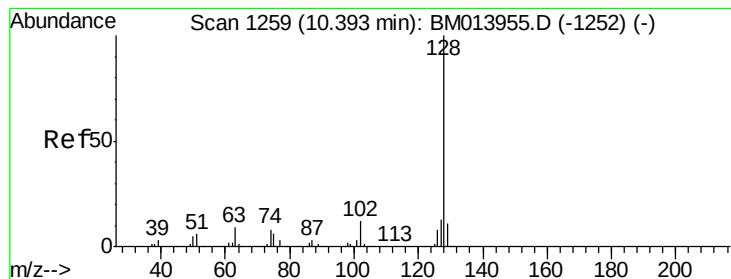
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 6 Sample Multiplier: 1

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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jan 30 01:10:58 2018  
Response via : Initial Calibration





#28

Naphthalene

Concen: 99.463 ng/ul

RT: 10.39 min Scan# 1259

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampled :

F6B35

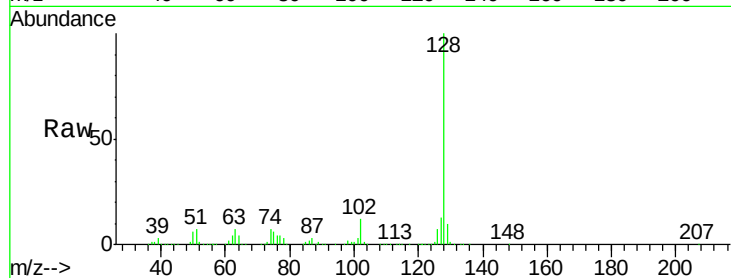
Tot Ion:128 Resp: 1884493

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 10.5  | 8.8   | 13.2  |
| 127 | 12.6  | 10.6  | 16.0  |

128 100

129 10.5 8.8 13.2

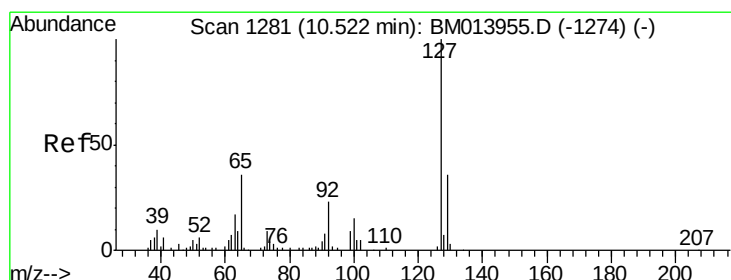
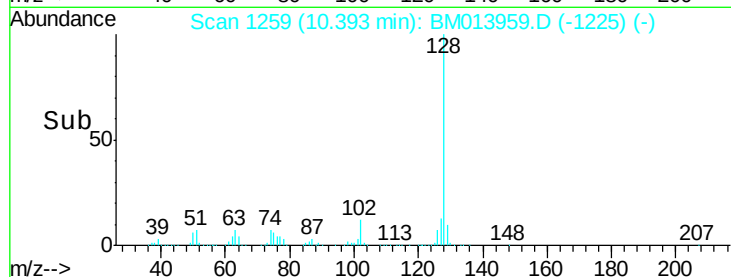
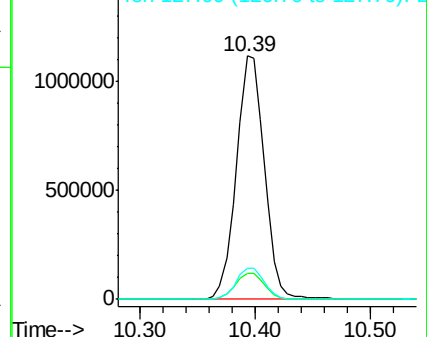
127 12.6 10.6 16.0



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



#30

4-Chloroaniline

Concen: 47.201 ng/ul

RT: 10.40 min Scan# 1260

Delta R.T. -0.12 min

Lab File: BM013959.D

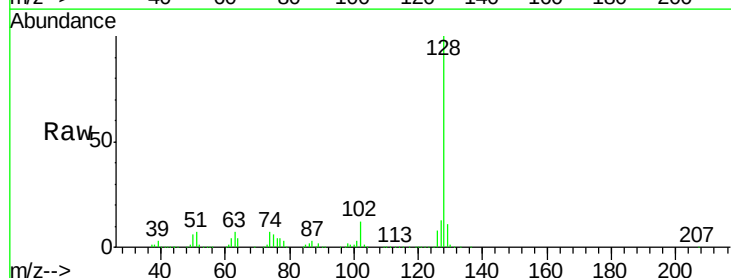
Acq: 29 Jan 2018 15:23

Tgt Ion:127 Resp: 244954

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 127 | 100   |       |       |
| 129 | 83.6  | 28.4  | 42.6  |

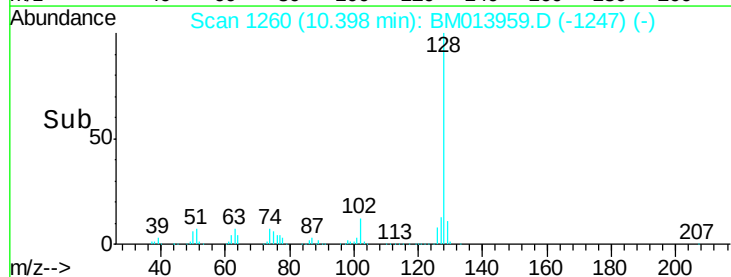
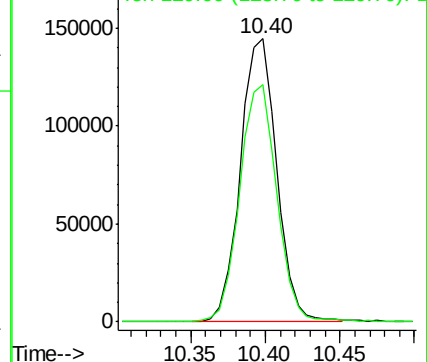
127 100

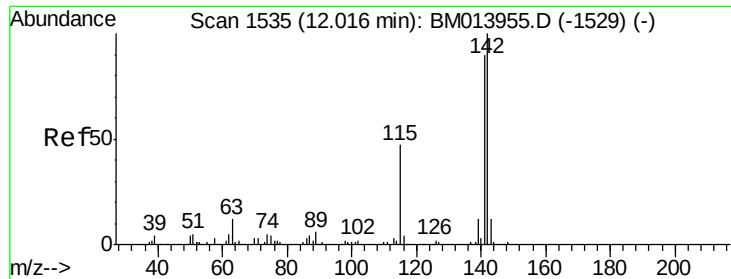
129 83.6 28.4 42.6



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

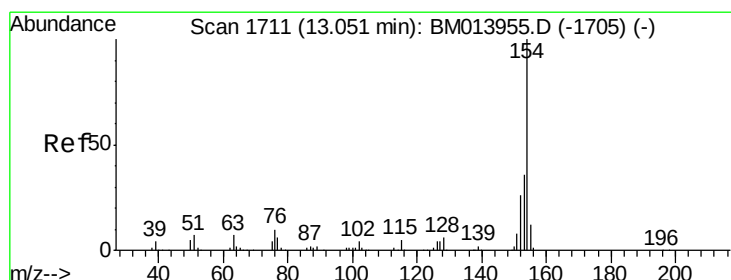
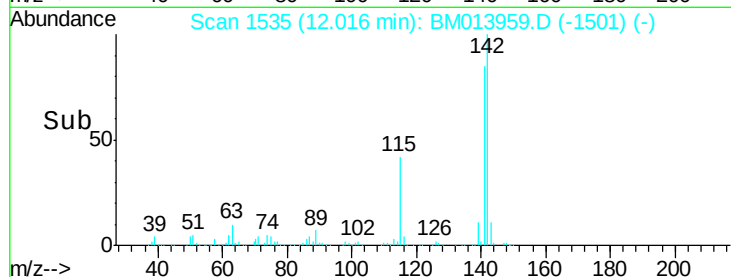
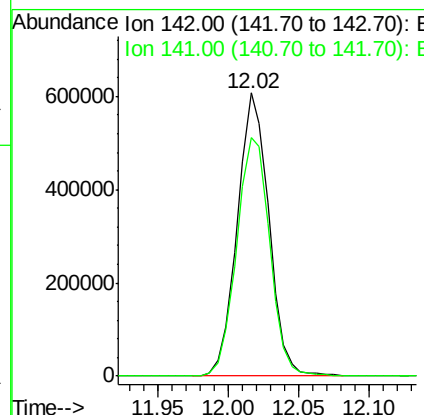
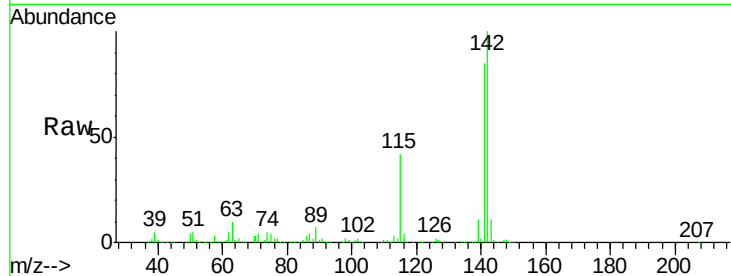




#34  
 2-Methylnaphthalene  
 Concen: 67.287 ng/ul  
 RT: 12.02 min Scan# 1535  
 Delta R.T. -0.00 min  
 Lab File: BM013959.D  
 Acq: 29 Jan 2018 15:23

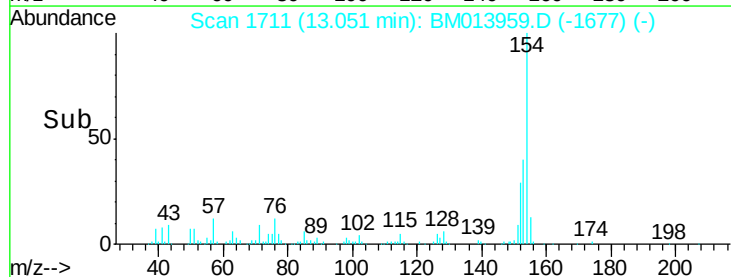
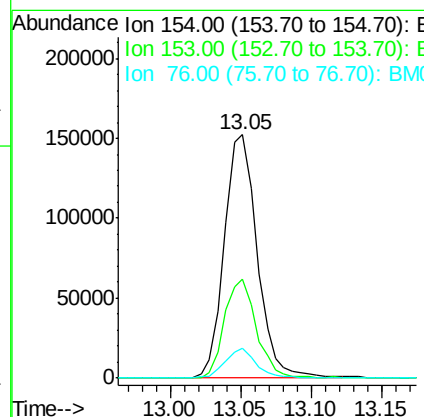
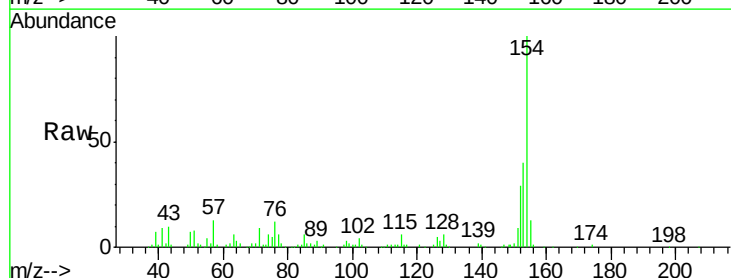
Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B35

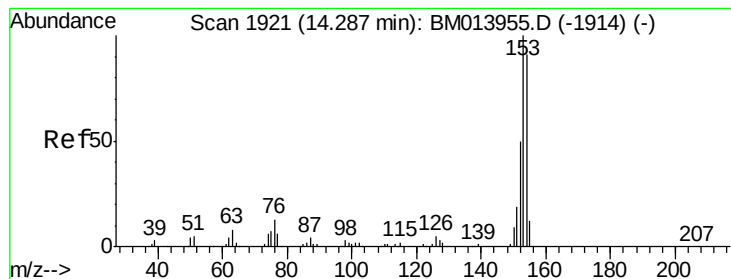
Tot Ion:142 Resp: 950497  
 Ion Ratio Lower Upper  
 142 100  
 141 84.5 74.1 111.1



#40  
 1,1'-Biphenyl  
 Concen: 11.969 ng/ul  
 RT: 13.05 min Scan# 1711  
 Delta R.T. -0.00 min  
 Lab File: BM013959.D  
 Acq: 29 Jan 2018 15:23

Tgt Ion:154 Resp: 247786  
 Ion Ratio Lower Upper  
 154 100  
 153 40.5 32.6 48.8  
 76 12.4 8.5 12.7





#49

Acenaphthene

Concen: 47.323 ng/ul

RT: 14.29 min Scan# 1921

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampleId :

F6B35

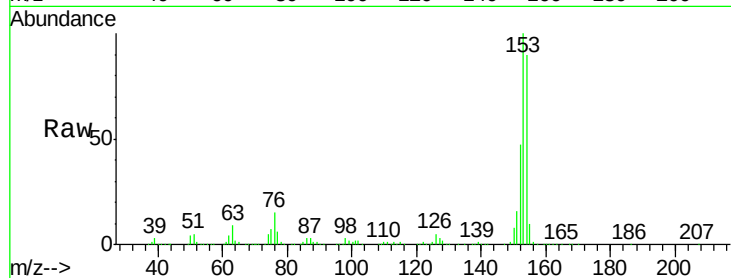
Tot Ion:153 Resp: 783832

Ion Ratio Lower Upper

153 100

152 47.0 37.6 56.4

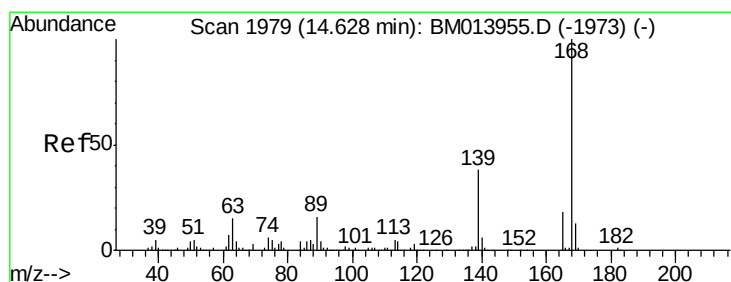
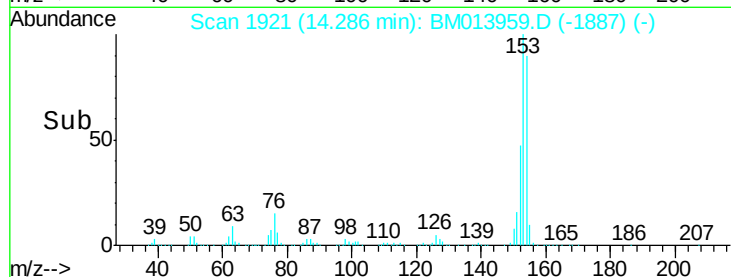
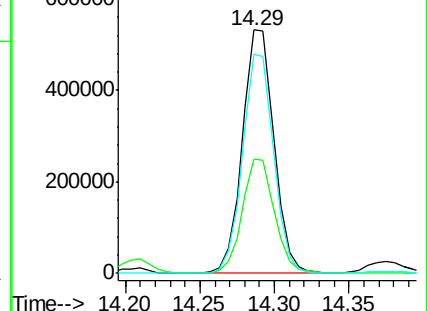
154 90.1 70.4 105.6



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



#53

Dibenzofuran

Concen: 34.707 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. -0.00 min

Lab File: BM013959.D

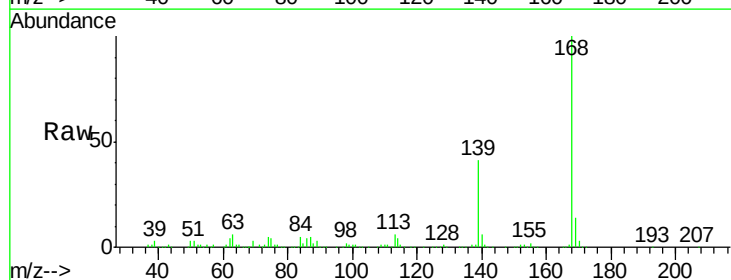
Acq: 29 Jan 2018 15:23

Tgt Ion:168 Resp: 864835

Ion Ratio Lower Upper

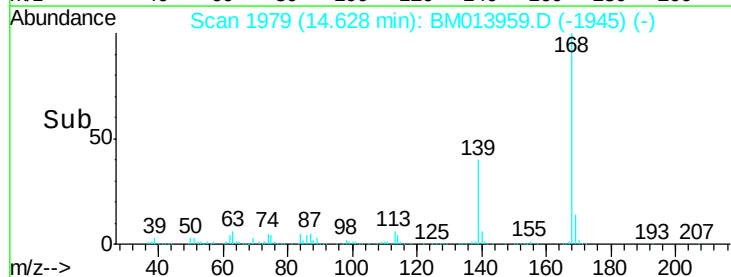
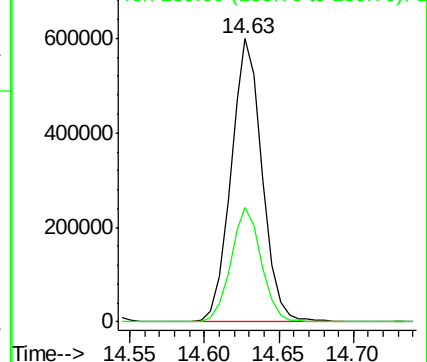
168 100

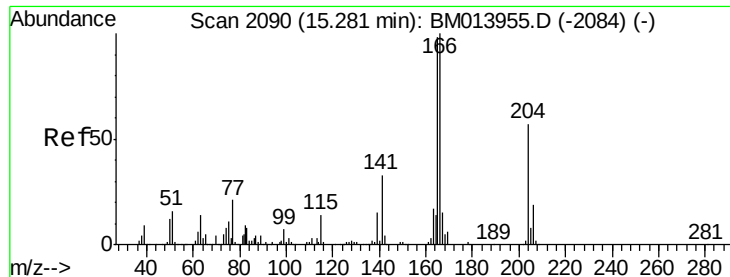
139 40.7 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 33.282 ng/ul

RT: 15.28 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampleId :

F6B35

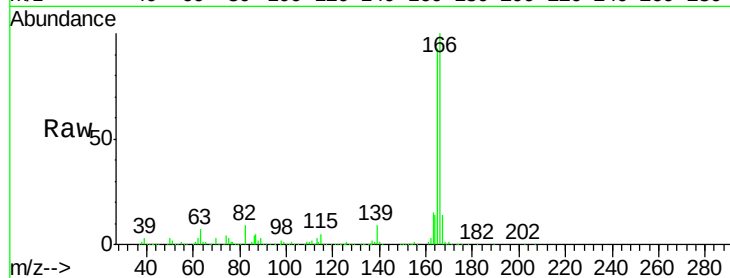
Tot Ion:166 Resp: 679340

Ion Ratio Lower Upper

166 100

165 92.8 77.9 116.9

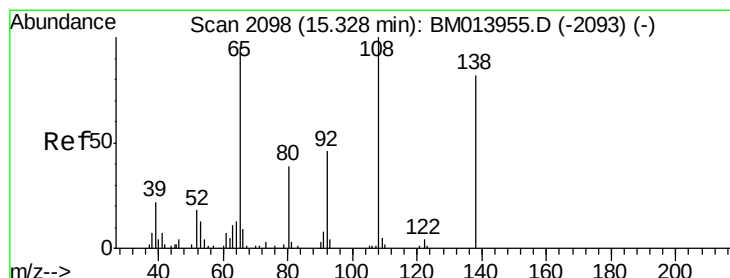
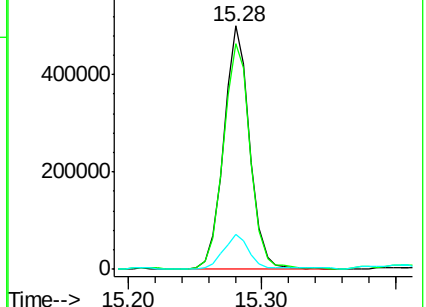
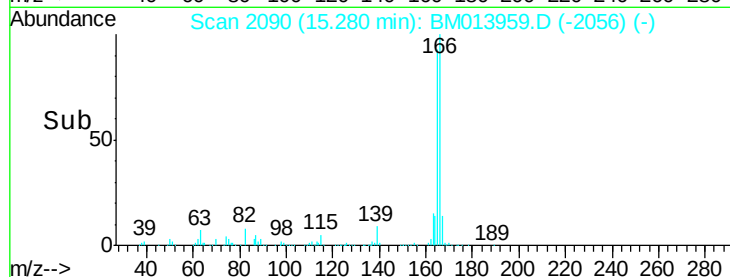
167 14.1 10.6 16.0



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



#60

4-Nitroaniline

Concen: 2.751 ng/ul

RT: 15.28 min Scan# 2090

Delta R.T. -0.05 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

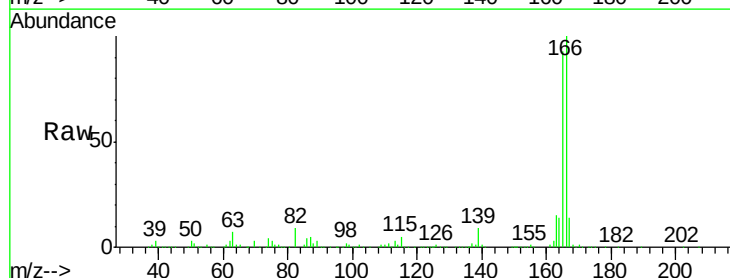
Tgt Ion:138 Resp: 9888

Ion Ratio Lower Upper

138 100

92 0.0 40.0 60.0#

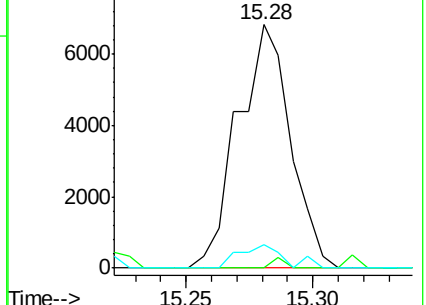
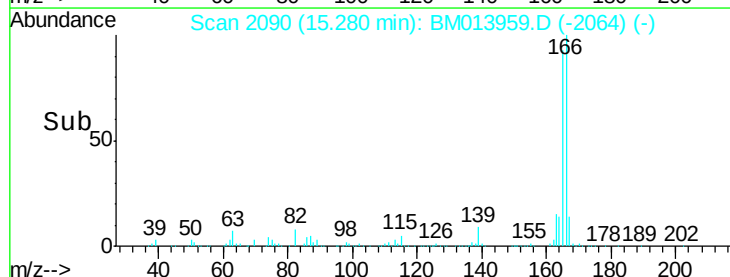
108 9.7 80.0 120.0#

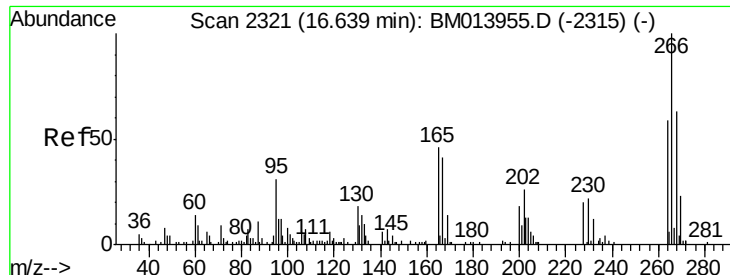


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM0

Ion 108.00 (107.70 to 108.70): E

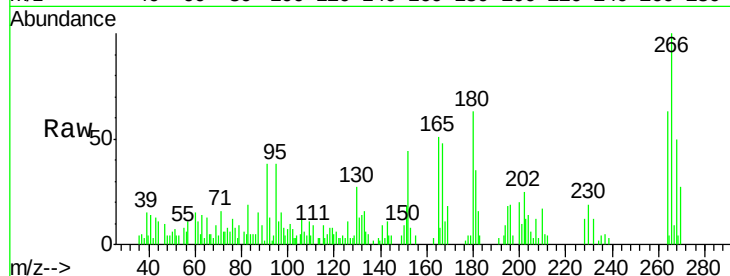




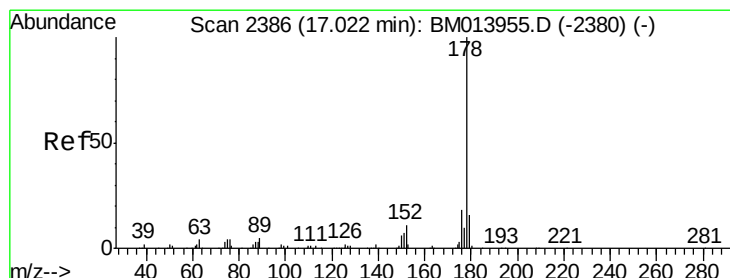
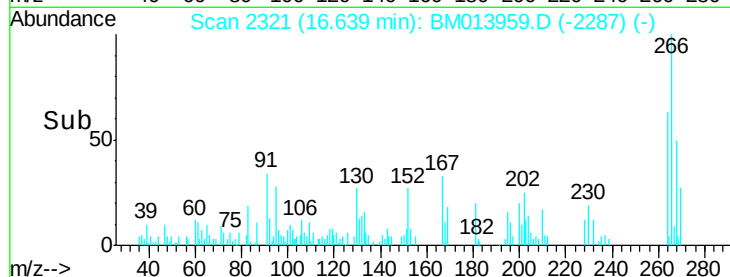
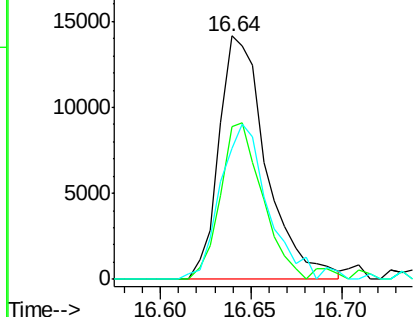
#68  
 Pentachlorophenol  
 Concen: 6.608 ng/ul  
 RT: 16.64 min Scan# 2321  
 Delta R.T. -0.00 min  
 Lab File: BM013959.D  
 Acq: 29 Jan 2018 15:23

Instrument :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 67.0  | 49.3  | 73.9  |
| 268     | 53.7  | 52.6  | 78.8  |

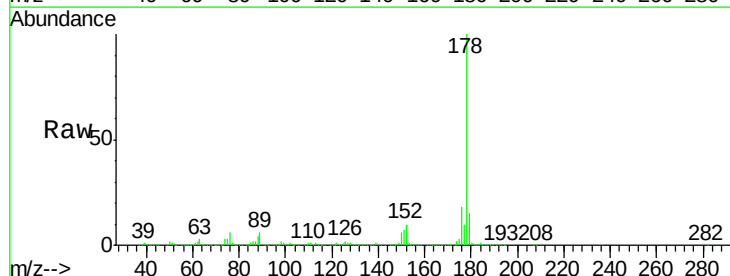


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

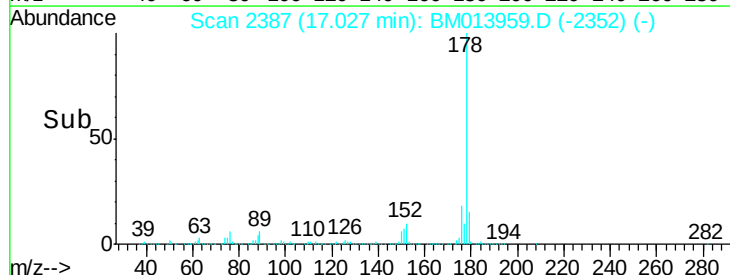
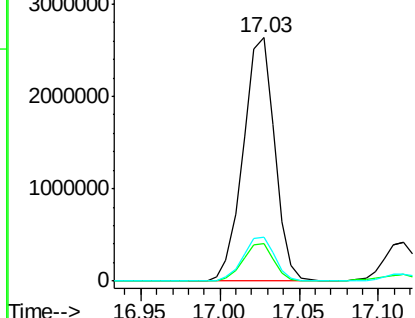


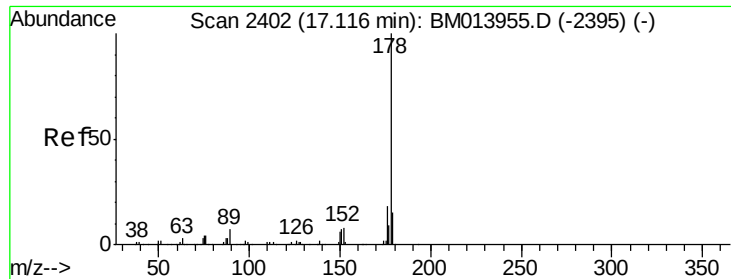
#69  
 Phenanthrene  
 Concen: 113.543 ng/ul  
 RT: 17.03 min Scan# 2387  
 Delta R.T. 0.01 min  
 Lab File: BM013959.D  
 Acq: 29 Jan 2018 15:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 12.6  | 19.0  |
| 176     | 18.2  | 14.9  | 22.3  |



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

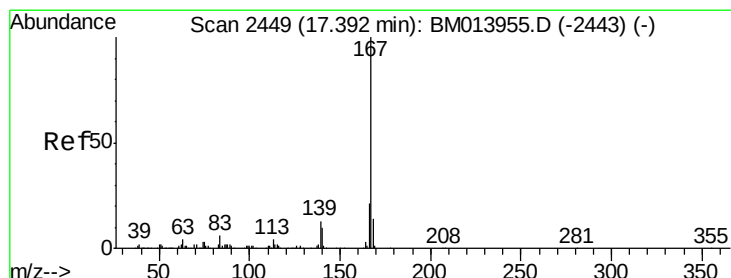
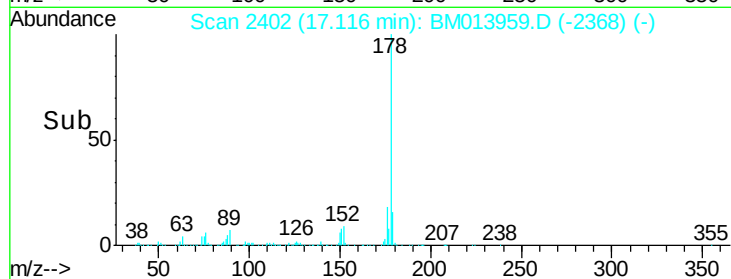
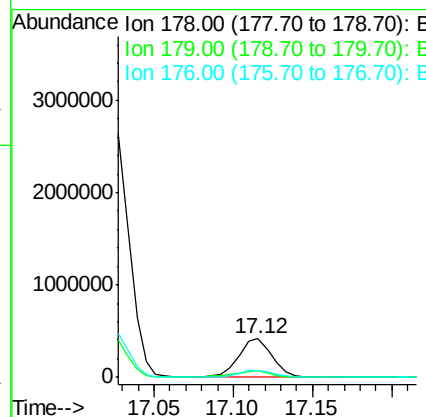
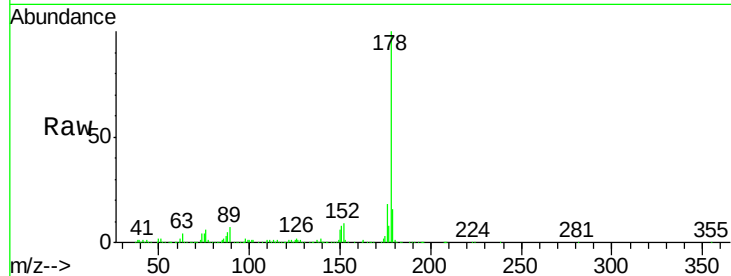




#71  
 Anthracene  
 Concen: 18.293 ng/ul  
 RT: 17.12 min Scan# 2402  
 Delta R.T. -0.00 min  
 Lab File: BM013959.D  
 Acq: 29 Jan 2018 15:23

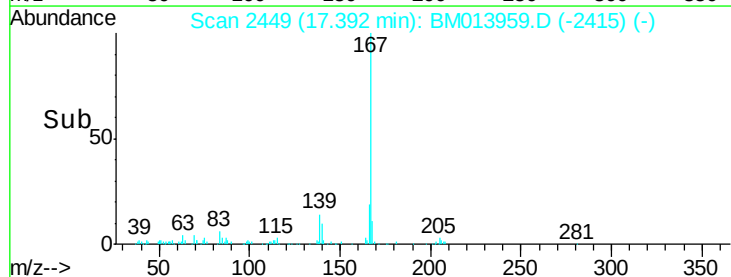
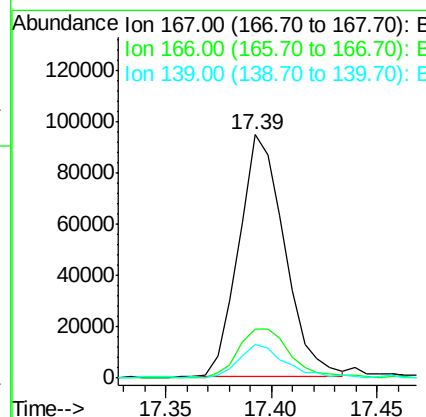
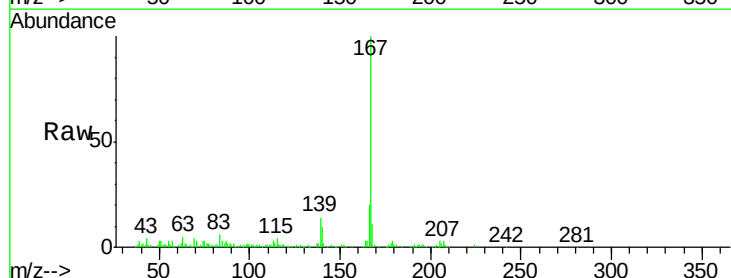
Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B35

Tot Ion:178 Resp: 602826  
 Ion Ratio Lower Upper  
 178 100  
 179 16.5 11.7 17.5  
 176 17.8 14.6 21.8

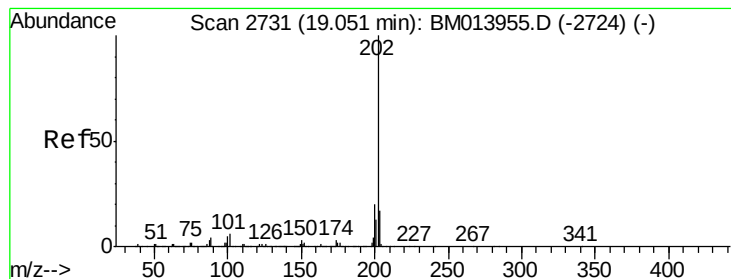


#72  
 Carbazole  
 Concen: 5.198 ng/ul  
 RT: 17.39 min Scan# 2449  
 Delta R.T. -0.00 min  
 Lab File: BM013959.D  
 Acq: 29 Jan 2018 15:23

Tgt Ion:167 Resp: 141385  
 Ion Ratio Lower Upper  
 167 100  
 166 20.0 17.1 25.7  
 139 14.0 10.0 15.0







#74

Fluoranthene

Concen: 53.316 ng/ul

RT: 19.05 min Scan# 2731

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampleId :

F6B35

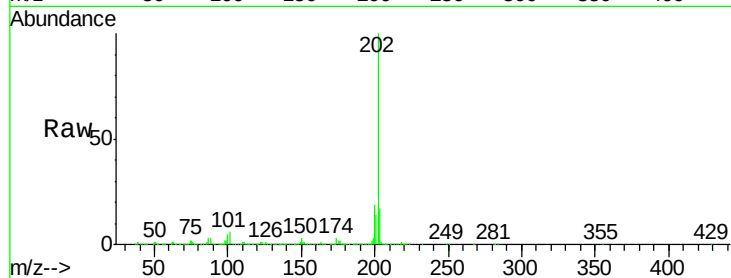
Tot Ion:202 Resp: 2033321

Ion Ratio Lower Upper

202 100

101 5.8 4.6 7.0

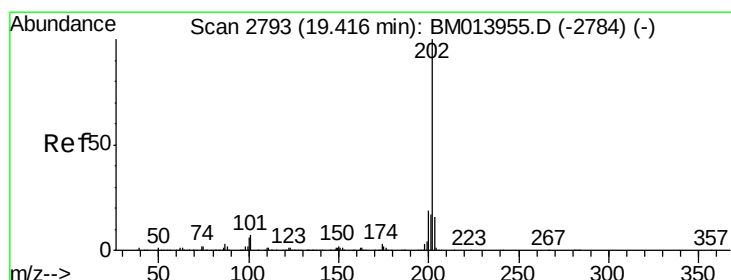
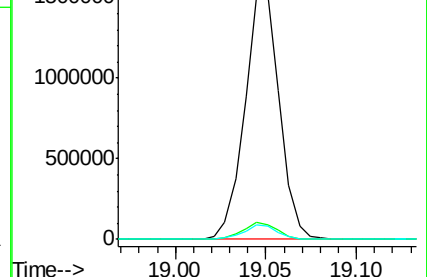
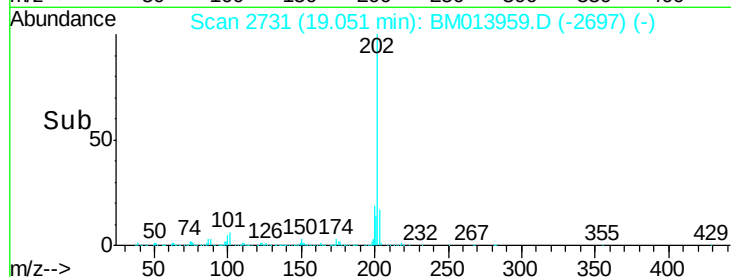
100 5.2 3.4 5.2#



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



#77

Pyrene

Concen: 31.909 ng/ul

RT: 19.41 min Scan# 2792

Delta R.T. -0.01 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

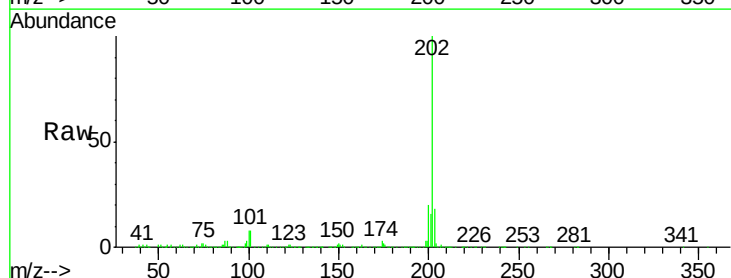
Tgt Ion:202 Resp: 1281066

Ion Ratio Lower Upper

202 100

101 8.4 5.1 7.7#

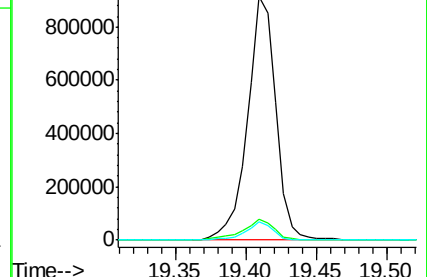
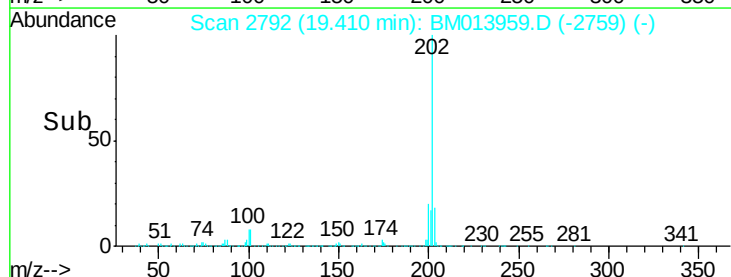
100 7.6 4.9 7.3#

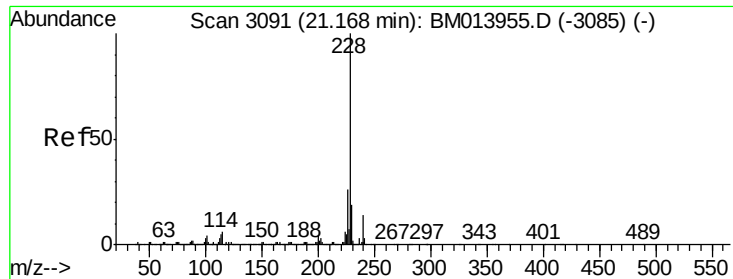


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 6.808 ng/ul

RT: 21.17 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampleId :

F6B35

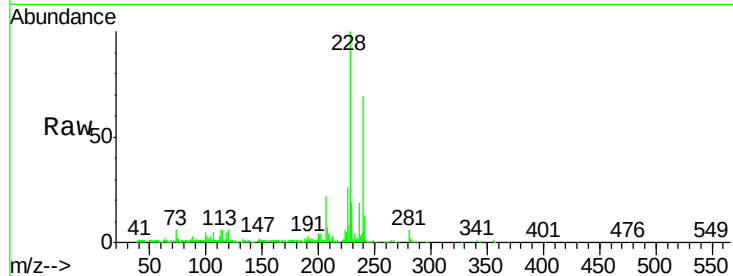
Tot Ion:228 Resp: 271683

Ion Ratio Lower Upper

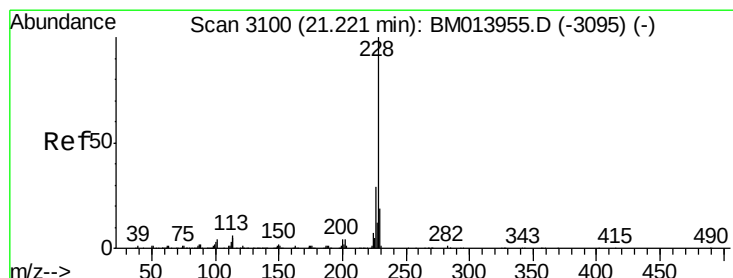
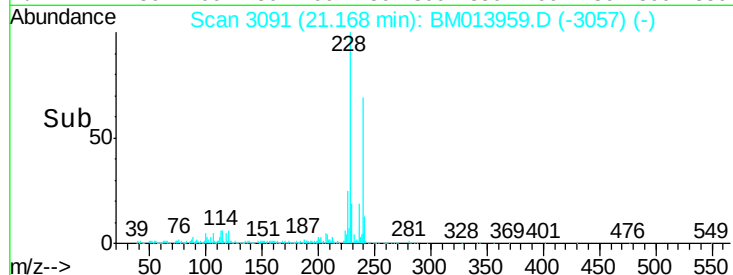
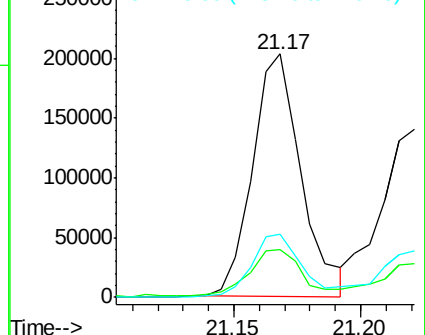
228 100

229 19.4 15.4 23.0

226 25.7 21.4 32.0



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



#82

Chrysene

Concen: 5.616 ng/ul

RT: 21.22 min Scan# 3100

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

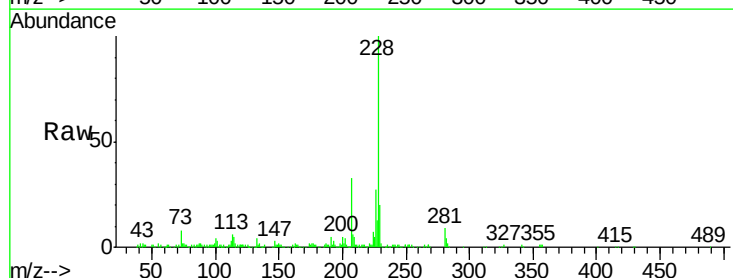
Tgt Ion:228 Resp: 205588

Ion Ratio Lower Upper

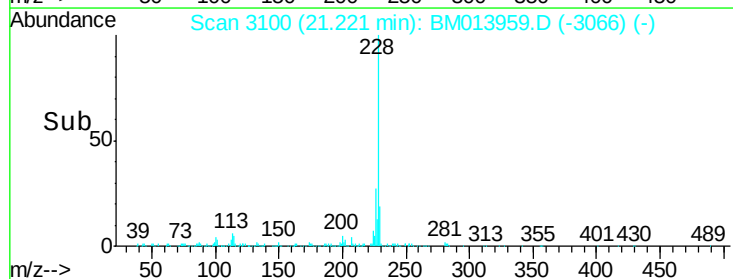
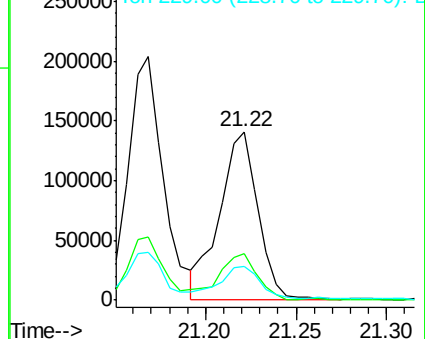
228 100

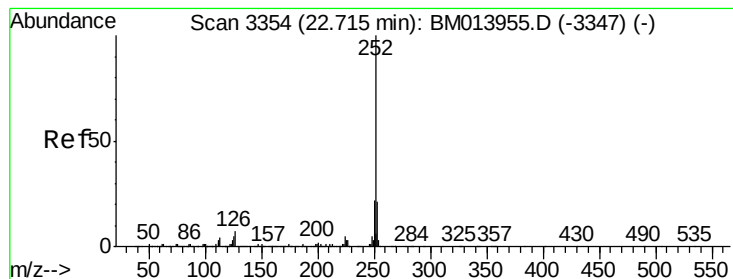
226 27.5 23.4 35.2

229 19.7 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





#85

Benzo(b)fluoranthene

Concen: 3.155 ng/ul

RT: 22.72 min Scan# 3355

Delta R.T. 0.01 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampleId :

F6B35

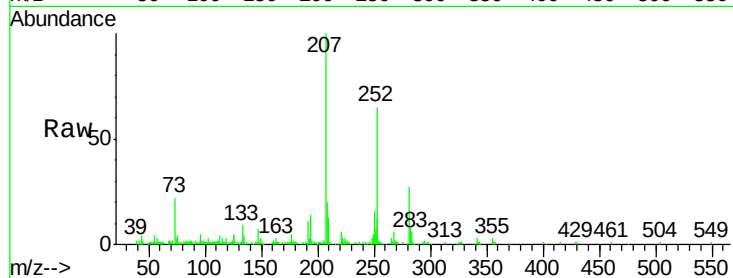
Tot Ion:252 Resp: 122850

Ion Ratio Lower Upper

252 100

253 18.4 17.9 26.9

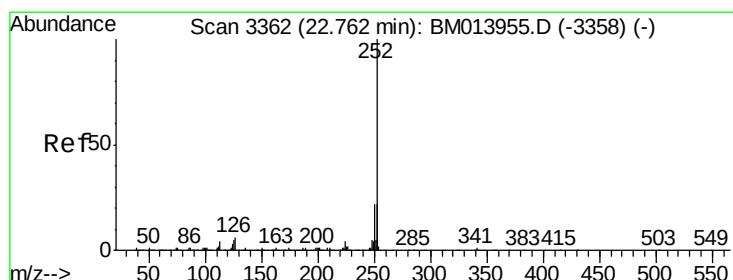
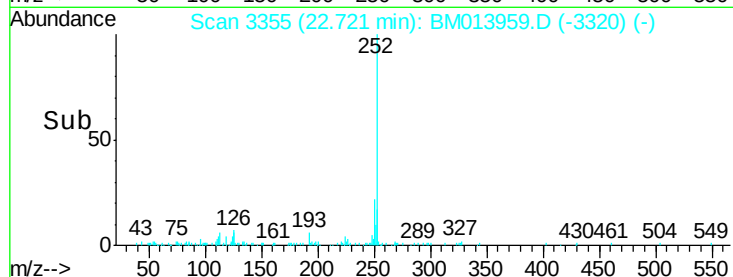
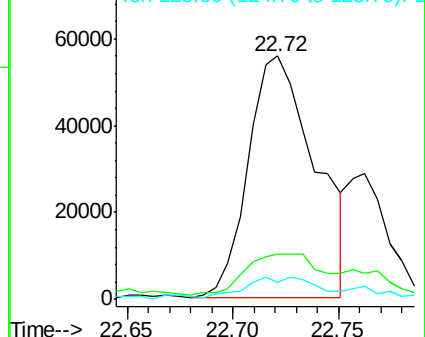
125 6.8 3.6 5.4#



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



#86

Benzo(k)fluoranthene

Concen: 1.023 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

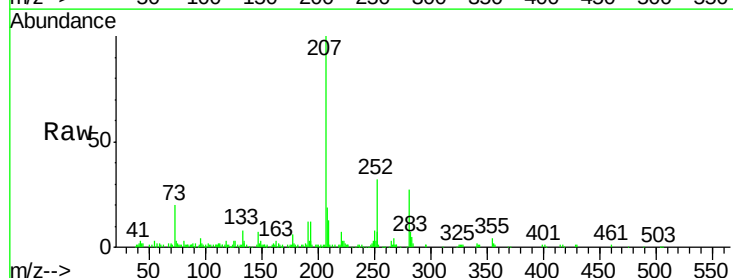
Tgt Ion:252 Resp: 38496

Ion Ratio Lower Upper

252 100

253 20.4 17.1 25.7

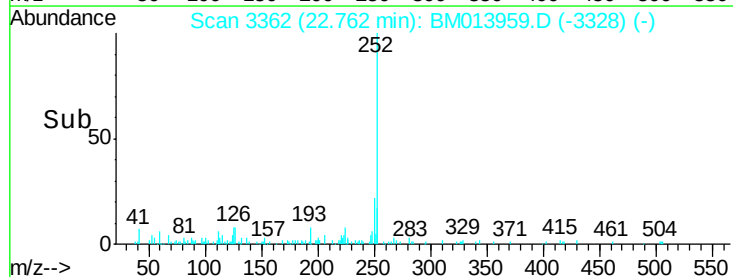
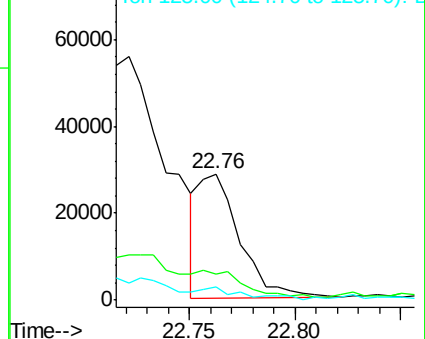
125 10.0 3.4 5.2#

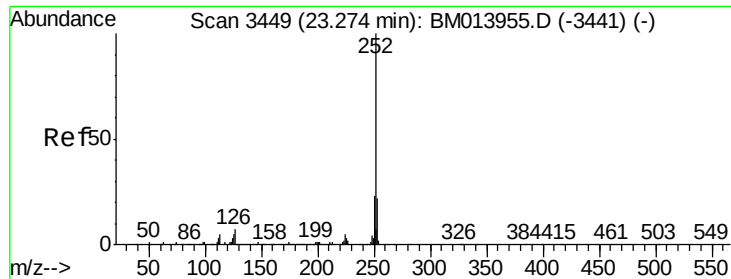


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 1.709 ng/ul

RT: 23.27 min Scan# 3449

Delta R.T. -0.00 min

Lab File: BM013959.D

Acq: 29 Jan 2018 15:23

Instrument :

BNA\_M

ClientSampleId :

F6B35

Tot Ion:252 Resp: 62876

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

125 8.1 4.0 6.0#

