

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032719\  
 Data File : BF113333.D  
 Acq On : 27 Mar 2019 16:19  
 Operator : JU/SJ  
 Sample : K2086-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-13

Quant Time: Mar 28 01:07:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF032519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 26 03:32:08 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 185423   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.98  | 136  | 691241   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.73  | 164  | 330656   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.21 | 188  | 621722   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.84 | 240  | 409456   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.24 | 264  | 469358   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 1134211  | 100.02 | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 1490161  | 103.87 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 906440   | 77.83  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.52 | 330  | 380963   | 93.27  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.06  | 172  | 1618120  | 74.53  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.79 | 244  | 1467166  | 78.98  | ng    | 0.00     |

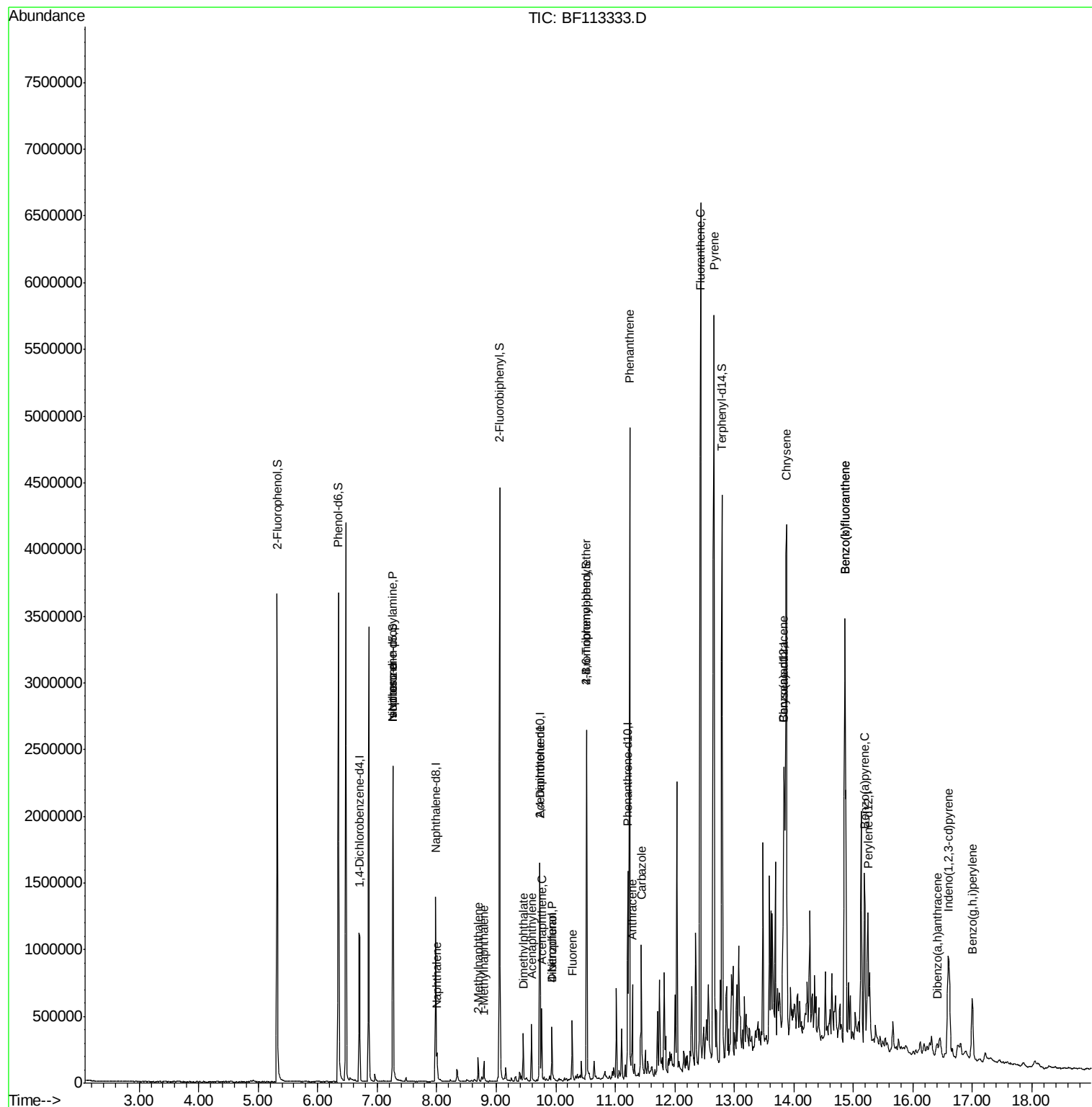
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 117236   | 13.010    | ng    | # 76   |
| 20) 3+4-Methylphenols          | 7.16  | 107  | 543      | Below Cal |       | # 17   |
| 25) Isophorone                 | 7.26  | 82   | 890568   | 39.459    | ng    | # 64   |
| 31) Naphthalene                | 8.00  | 128  | 75038    | 2.221     | ng    | 98     |
| 37) 2-Methylnaphthalene        | 8.70  | 142  | 58755    | 2.788     | ng    | 98     |
| 38) 1-Methylnaphthalene        | 8.79  | 142  | 42523    | 2.097     | ng    | 99     |
| 49) Acenaphthylene             | 9.59  | 152  | 186844   | 5.435     | ng    | 97     |
| 50) Dimethylphthalate          | 9.45  | 163  | 139797   | 5.705     | ng    | 100    |
| 52) Acenaphthene               | 9.76  | 154  | 109777   | 5.670     | ng    | 98     |
| 55) Dibenzofuran               | 9.93  | 168  | 174740   | 6.003     | ng    | 97     |
| 56) 4-Nitrophenol              | 9.93  | 139  | 58827    | 13.236    | ng    | # 9    |
| 57) 2,4-Dinitrotoluene         | 9.73  | 165  | 45679    | 6.498     | ng    | # 24   |
| 58) Fluorene                   | 10.27 | 166  | 138719   | 6.135     | ng    | 99     |
| 67) 4-Bromophenyl-phenylether  | 10.52 | 248  | 21434    | 3.163     | ng    | # 1    |
| 71) Phenanthrene               | 11.24 | 178  | 1893515  | 61.329    | ng    | 99     |
| 72) Anthracene                 | 11.29 | 178  | 250792   | 7.997     | ng    | 99     |
| 73) Carbazole                  | 11.44 | 167  | 378666   | 12.654    | ng    | 99     |
| 75) Fluoranthene               | 12.43 | 202  | 3907558  | 111.953   | ng    | 97     |
| 78) Pyrene                     | 12.66 | 202  | 3199325  | 112.756   | ng    | 97     |
| 81) Benzo(a)anthracene         | 13.83 | 228  | 766012   | 32.683    | ng    | 94     |
| 83) Chrysene                   | 13.87 | 228  | 1847768  | 77.616    | ng    | 98     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.59 | 276  | 442043   | 21.636    | ng    | 97     |
| 88) Benzo(b)fluoranthene       | 14.86 | 252  | 2384760  | 81.792    | ng    | 97     |
| 89) Benzo(k)fluoranthene       | 14.86 | 252  | 2384760  | 93.138    | ng    | # 96   |
| 90) Benzo(a)pyrene             | 15.19 | 252  | 555477   | 21.490    | ng    | 98     |
| 91) Dibenzo(a,h)anthracene     | 16.42 | 278  | 67474    | 3.019     | ng    | 94     |
| 92) Benzo(g,h,i)perylene       | 17.00 | 276  | 364276   | 16.165    | ng    | 97     |

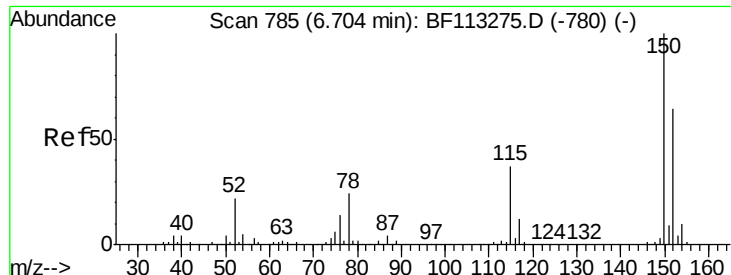
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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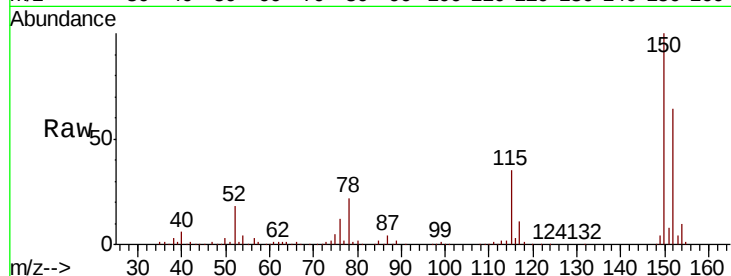


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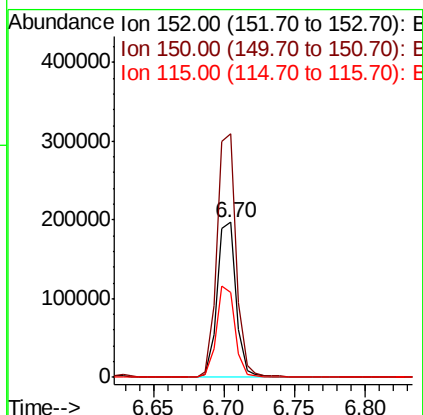
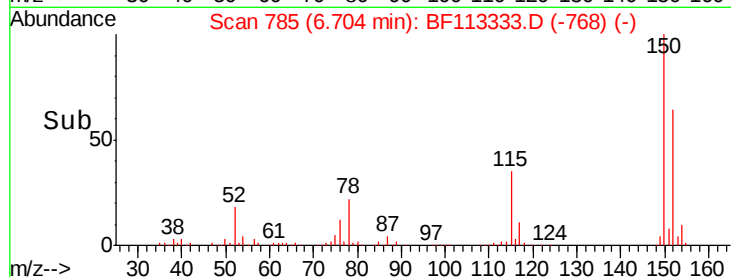
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. 0.00 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Instrument :  
BNA\_F  
ClientSampleId :  
CS-13

Tgt Ion:152 Resp: 185423  
Ion Ratio Lower Upper  
152 100  
150 157.1 124.7 187.1  
115 55.1 46.0 69.0



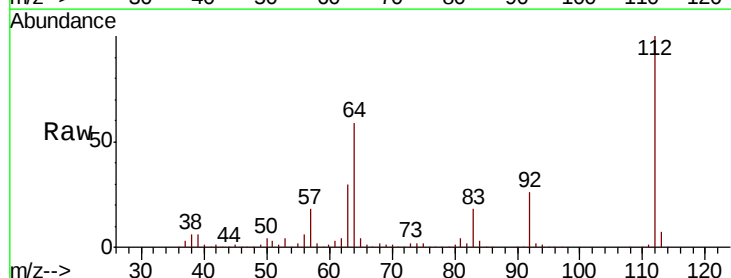
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



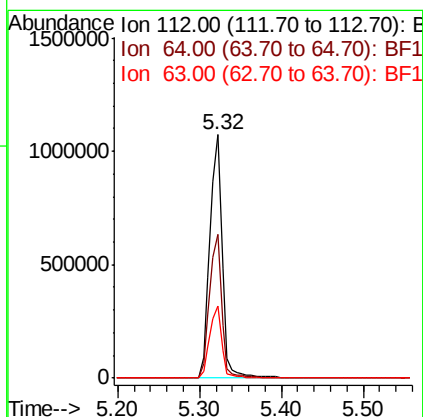
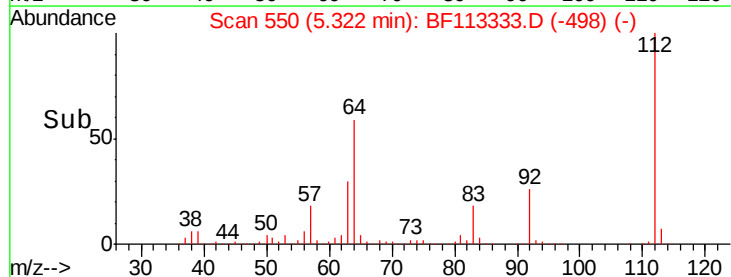
#5

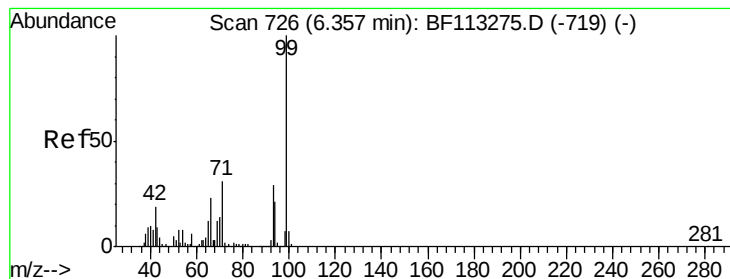
2-Fluorophenol  
Concen: 100.018 ng  
RT: 5.32 min Scan# 550  
Delta R.T. 0.01 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Tgt Ion:112 Resp: 1134211  
Ion Ratio Lower Upper  
112 100  
64 59.1 49.2 73.8  
63 29.8 24.9 37.3



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 103.875 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

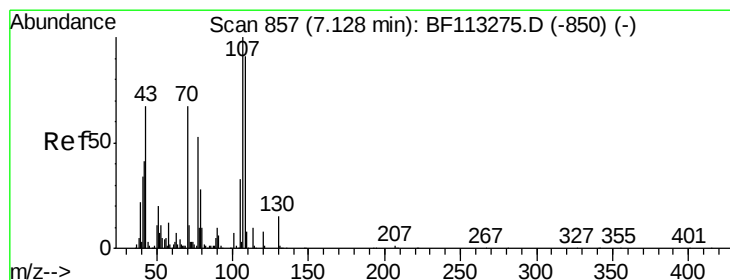
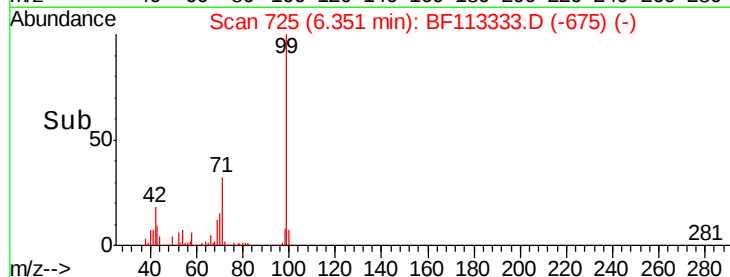
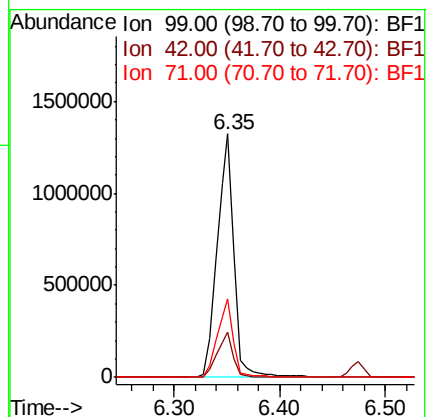
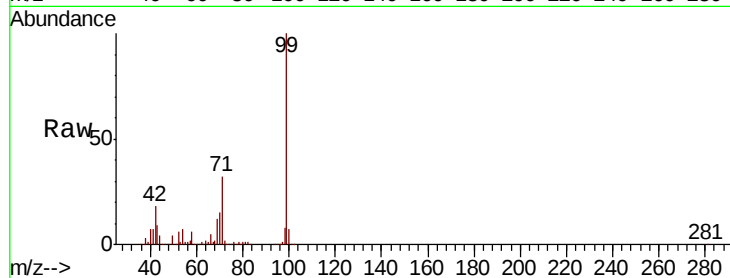
Tgt Ion: 99 Resp: 1490161

Ion Ratio Lower Upper

99 100

42 18.5 14.8 22.2

71 32.3 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 13.010 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.14 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Tgt Ion: 70 Resp: 117236

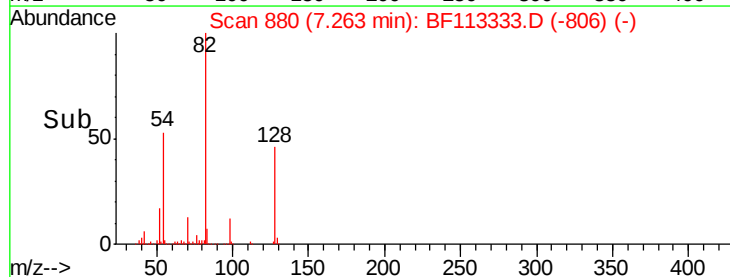
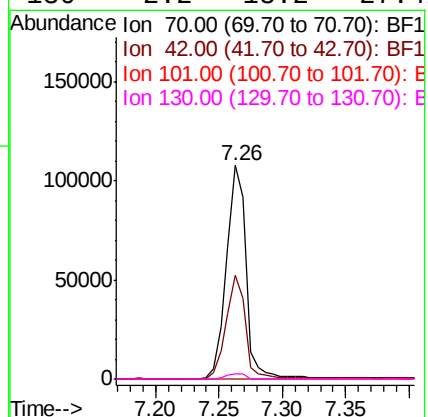
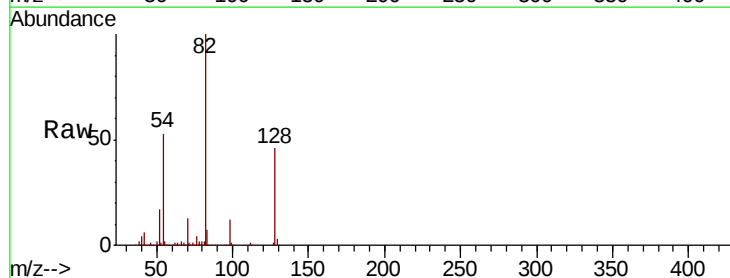
Ion Ratio Lower Upper

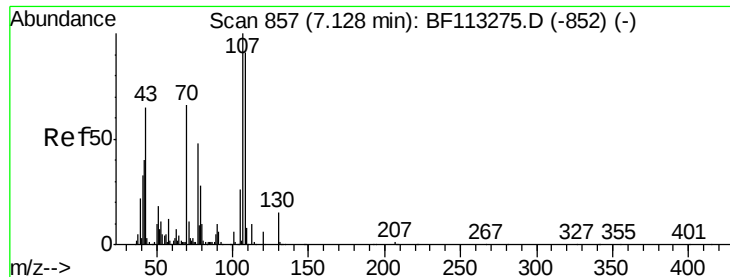
70 100

42 48.3 48.4 72.6#

101 0.0 7.8 11.8#

130 2.2 18.2 27.4#

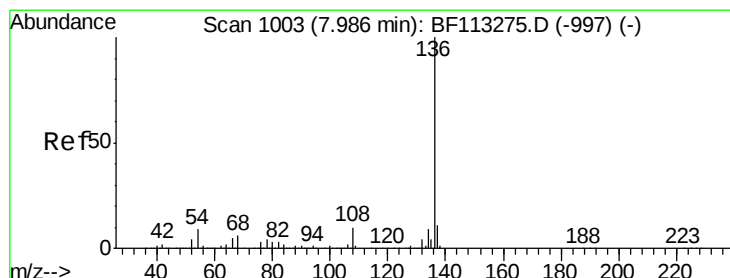
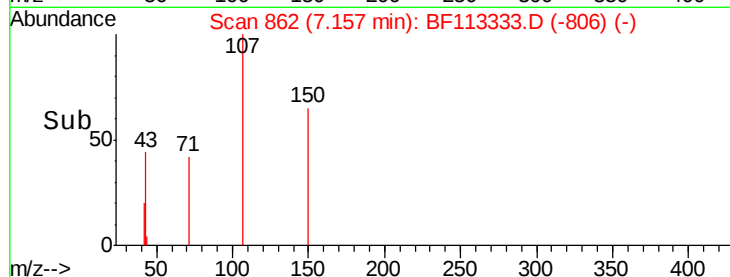
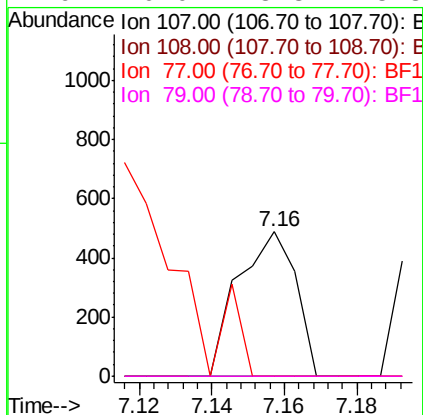
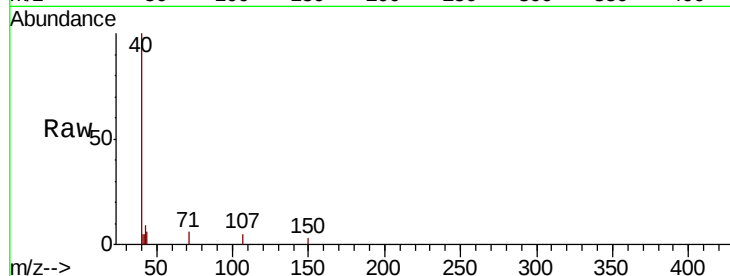




#20  
 3+4-Methylphenols  
 Concen: Below Cal  
 RT: 7.16 min Scan# 862  
 Delta R.T. 0.03 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

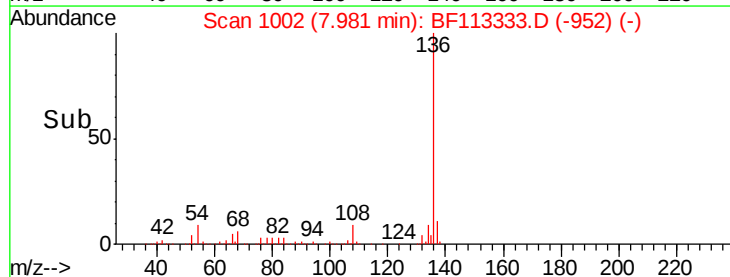
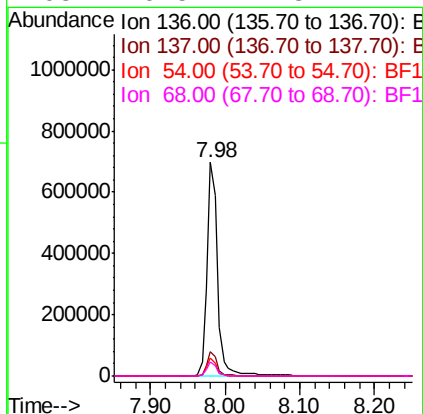
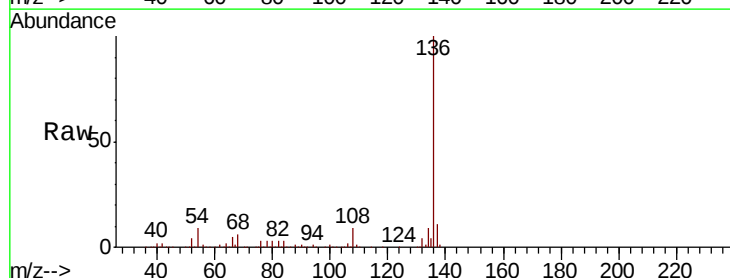
Instrument :  
 BNA\_F  
 ClientSampled :  
 CS-13

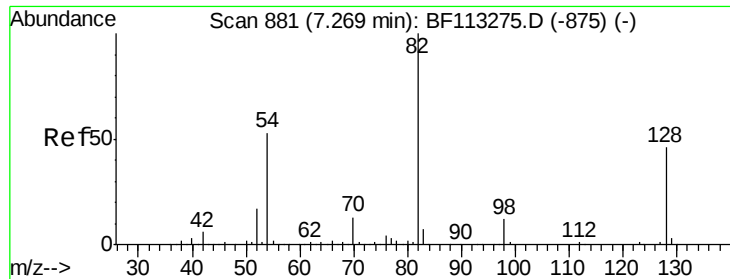
Tgt Ion:107 Resp: 543  
 Ion Ratio Lower Upper  
 107 100  
 108 0.0 71.4 111.4#  
 77 0.0 33.5 73.5#  
 79 0.0 8.3 48.3#



#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 7.98 min Scan# 1002  
 Delta R.T. -0.01 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

Tgt Ion:136 Resp: 691241  
 Ion Ratio Lower Upper  
 136 100  
 137 11.3 8.9 13.3  
 54 8.7 7.0 10.6  
 68 6.5 4.8 7.2

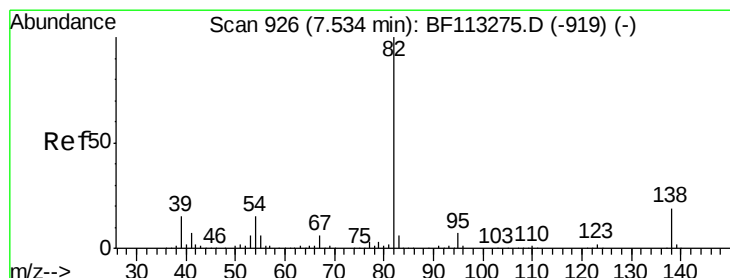
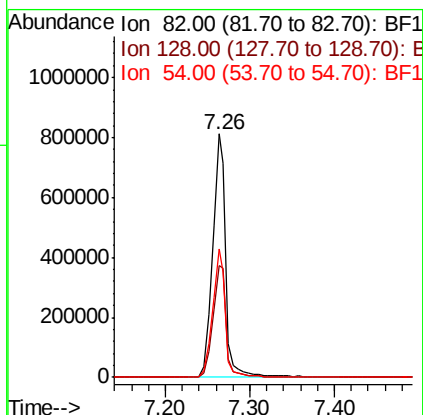
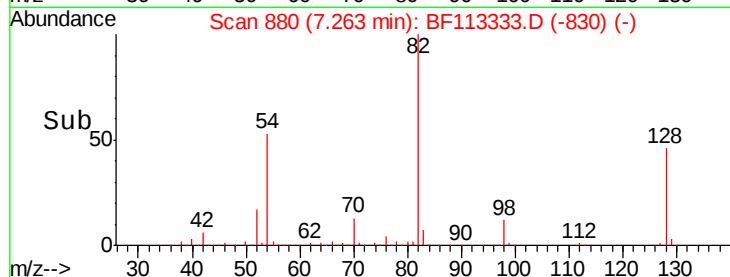
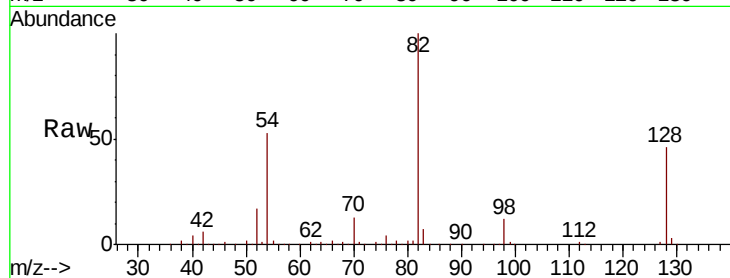




#23  
 Nitrobenzene-d5  
 Concen: 77.832 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.00 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

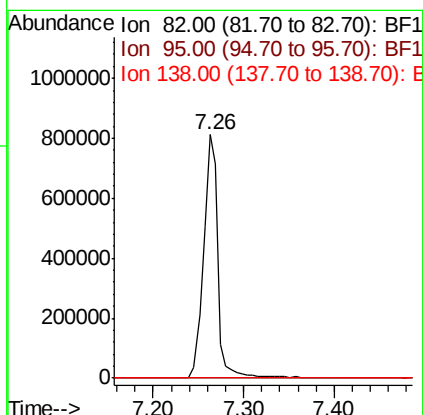
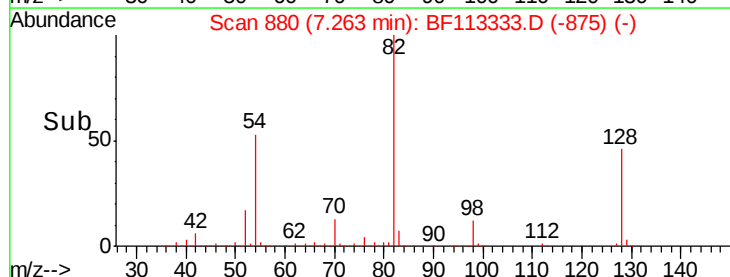
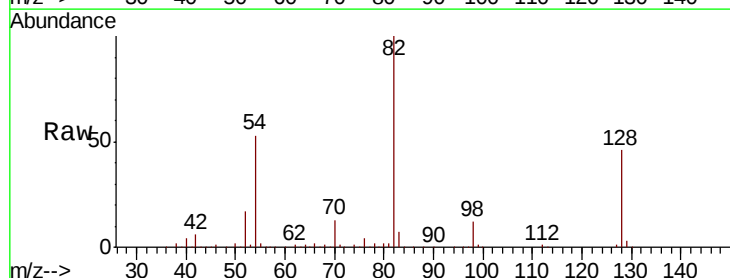
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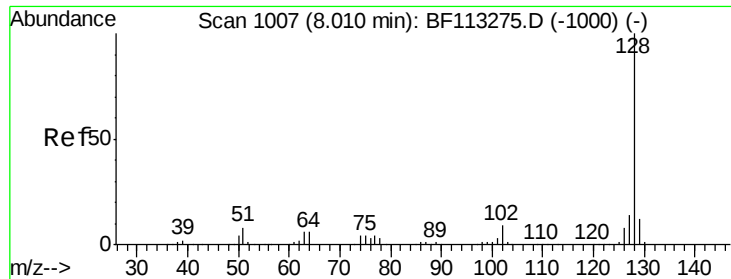
Tgt Ion: 82 Resp: 906440  
 Ion Ratio Lower Upper  
 82 100  
 128 46.2 36.5 54.7  
 54 52.5 42.2 63.2



#25  
 Isophorone  
 Concen: 39.459 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.27 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

Tgt Ion: 82 Resp: 890568  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.5 8.3#  
 138 0.0 15.2 22.8#

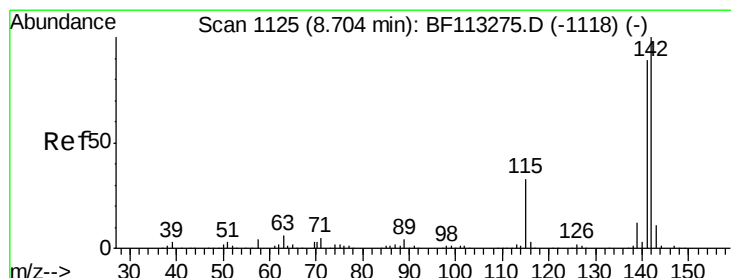
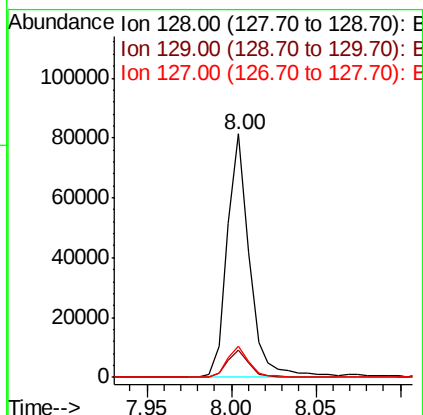
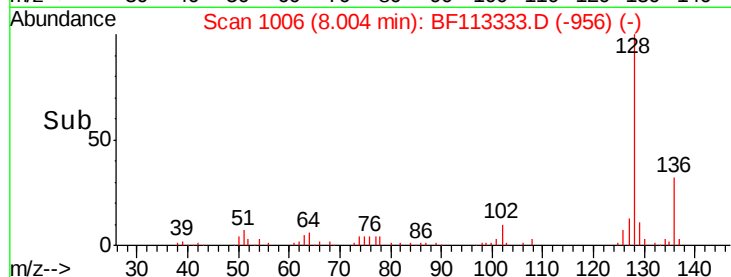
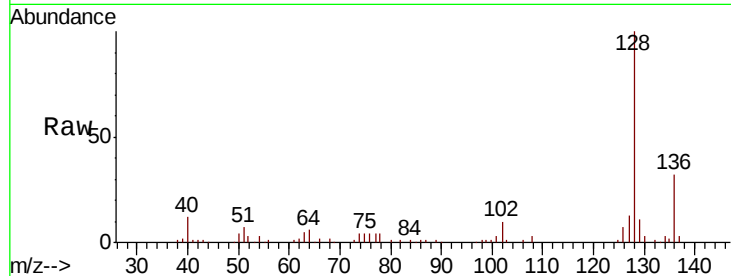




#31  
Naphthalene  
Concen: 2.221 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. -0.01 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

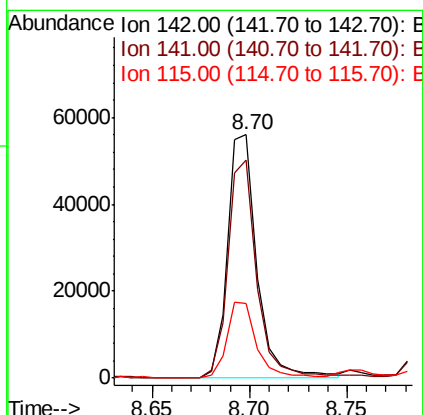
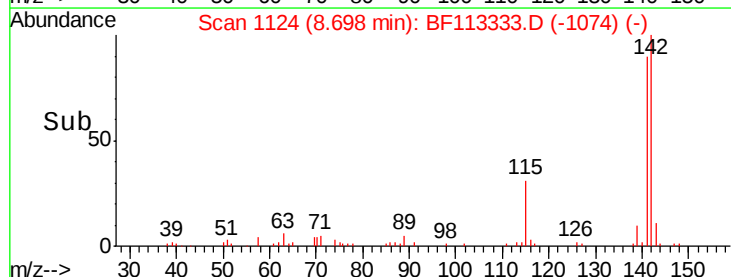
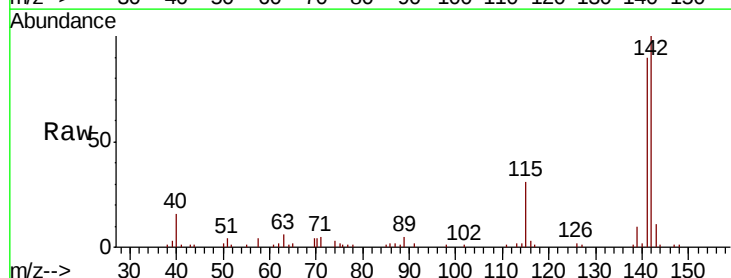
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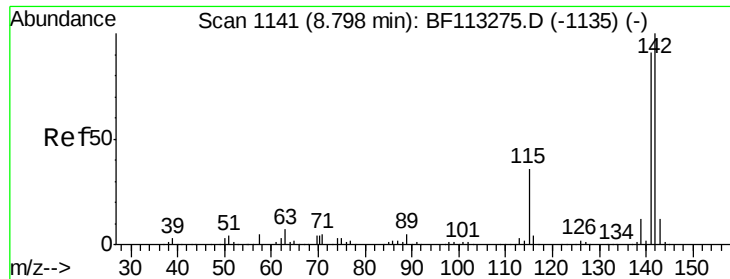
Tgt Ion:128 Resp: 75038  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.3 13.9  
127 12.7 10.9 16.3



#37  
2-Methylnaphthalene  
Concen: 2.788 ng  
RT: 8.70 min Scan# 1124  
Delta R.T. -0.01 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Tgt Ion:142 Resp: 58755  
Ion Ratio Lower Upper  
142 100  
141 89.7 71.0 106.6  
115 30.6 26.6 39.8

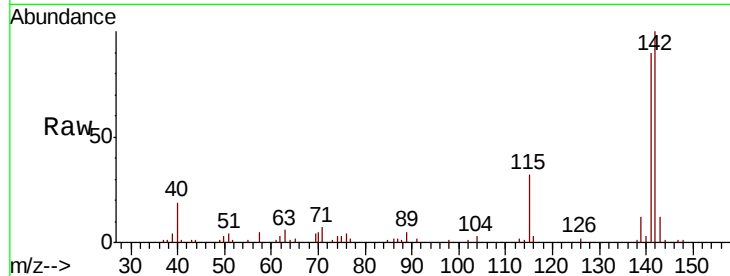




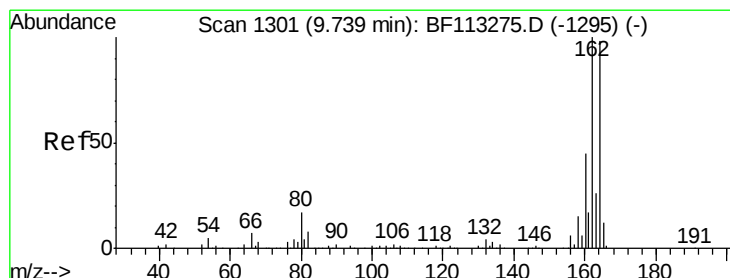
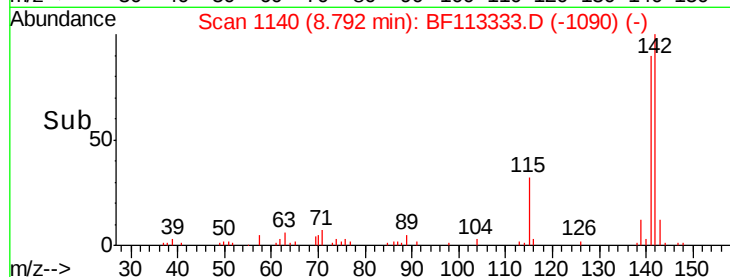
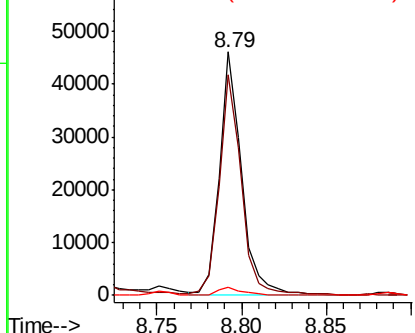
#38  
1-Methylnaphthalene  
Concen: 2.097 ng  
RT: 8.79 min Scan# 1140  
Delta R.T. -0.01 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Instrument :  
BNA\_F  
ClientSampleId :  
CS-13

Tgt Ion:142 Resp: 42523  
Ion Ratio Lower Upper  
142 100  
141 90.4 73.2 109.8  
116 3.4 3.0 4.4

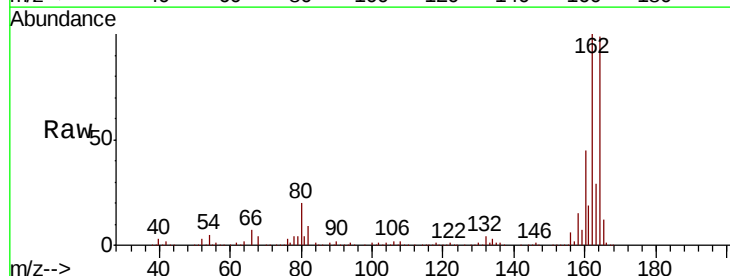


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

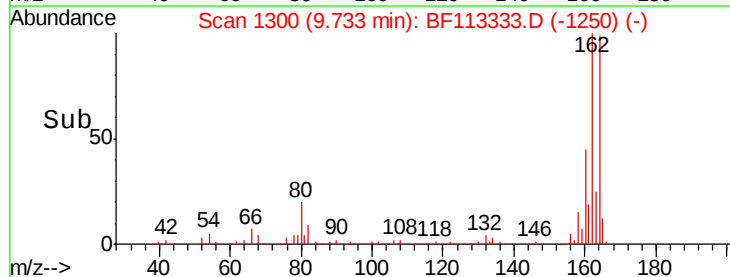
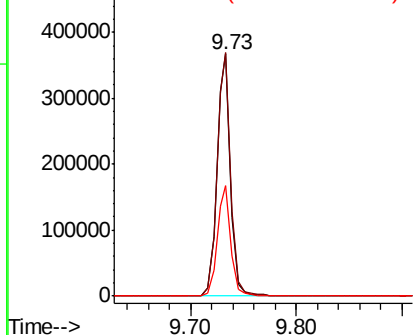


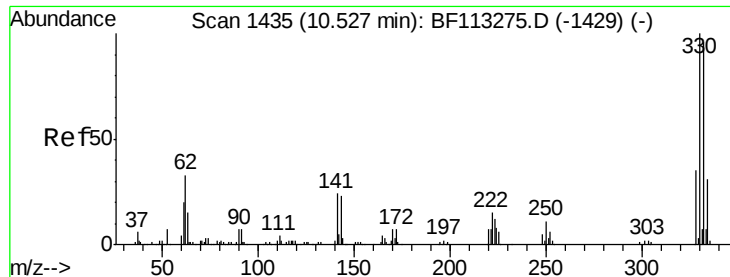
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.73 min Scan# 1300  
Delta R.T. -0.01 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Tgt Ion:164 Resp: 330656  
Ion Ratio Lower Upper  
164 100  
162 100.6 81.8 122.6  
160 45.6 36.4 54.6



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

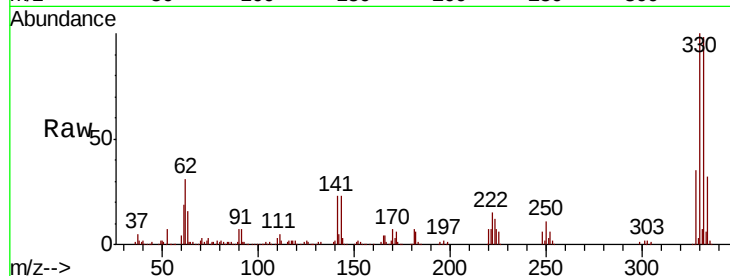




#42  
 2,4,6-Tribromophenol  
 Concen: 93.274 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 77.8  | 116.6 |
| 141     | 28.3  | 22.7  | 34.1  |

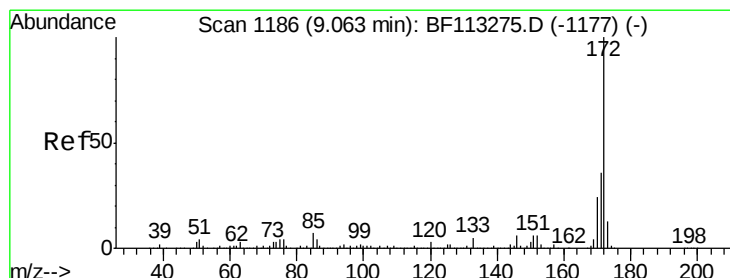
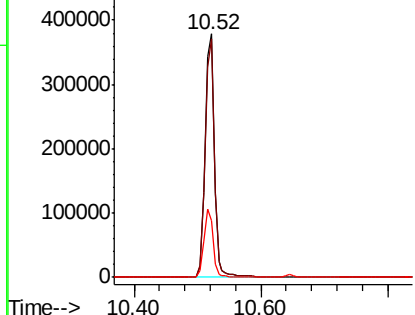
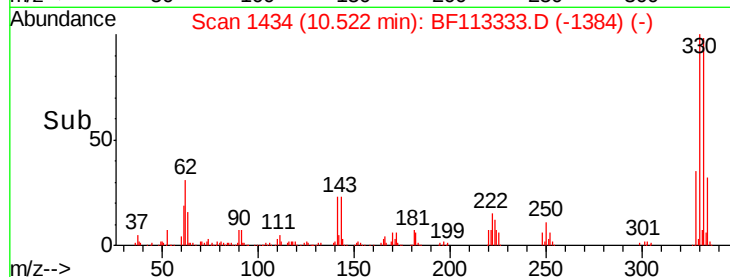


Abundance

Ion 329.80 (329.50 to 330.50): E

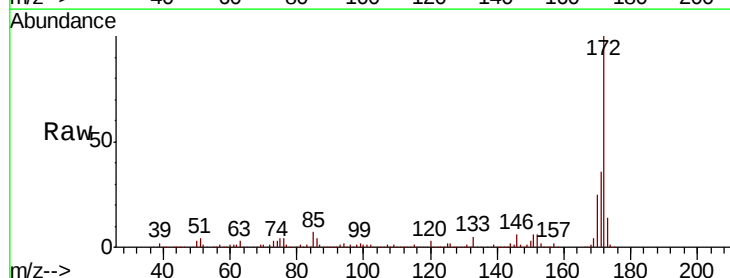
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 74.529 ng  
 RT: 9.06 min Scan# 1185  
 Delta R.T. -0.00 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.0  | 43.6  |
| 170     | 24.6  | 19.5  | 29.3  |

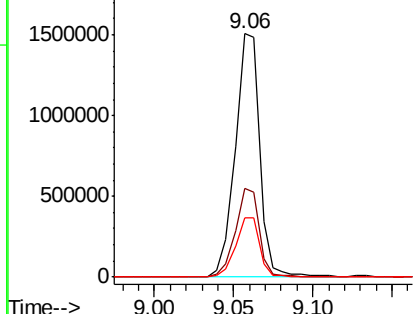
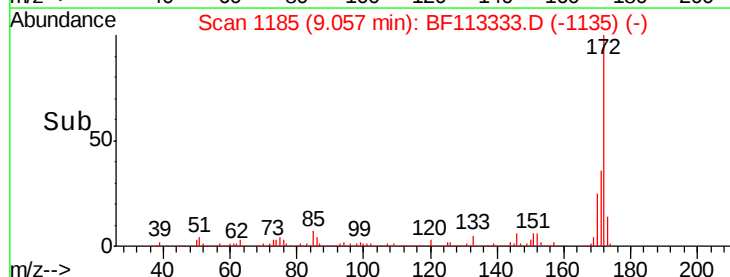


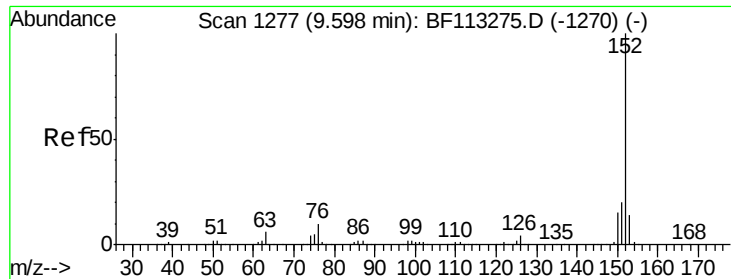
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 5.435 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

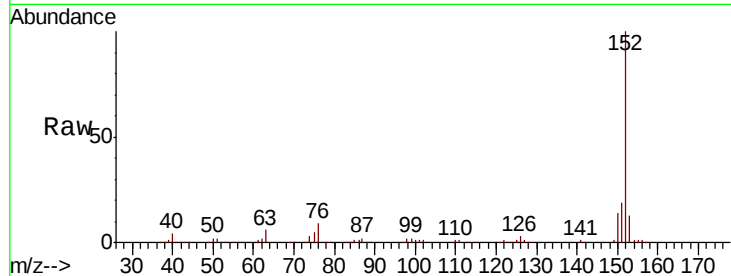
Tgt Ion:152 Resp: 186844

Ion Ratio Lower Upper

152 100

151 18.7 16.2 24.4

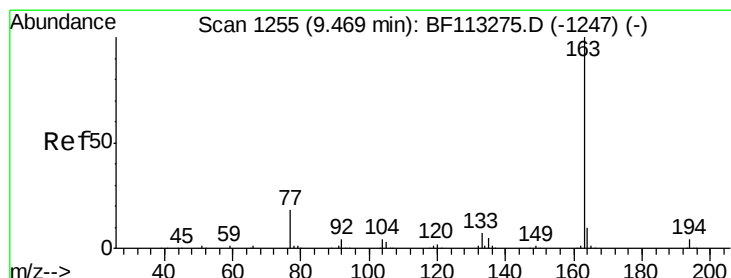
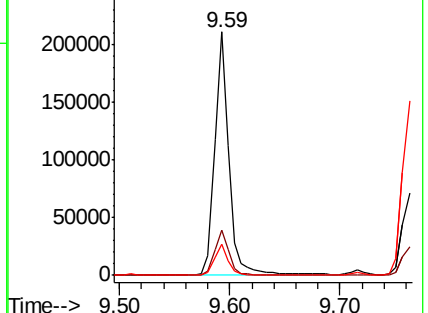
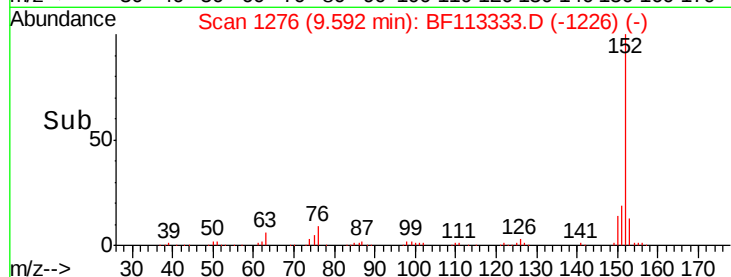
153 12.7 11.0 16.6



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



#50

Dimethylphthalate

Concen: 5.705 ng

RT: 9.45 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

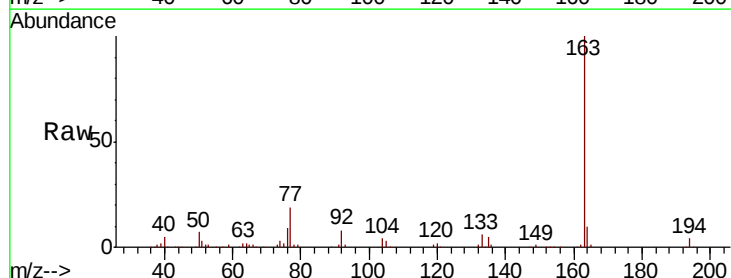
Tgt Ion:163 Resp: 139797

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

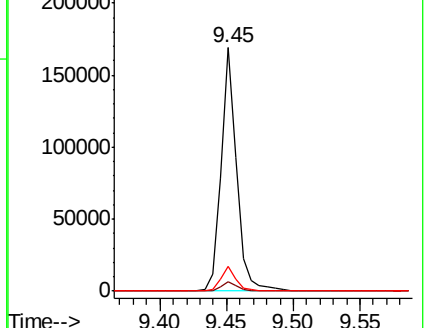
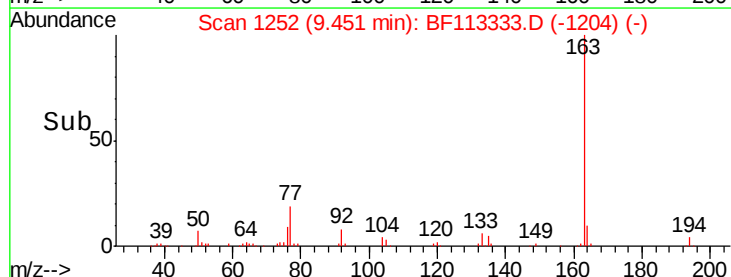
164 10.3 8.1 12.1

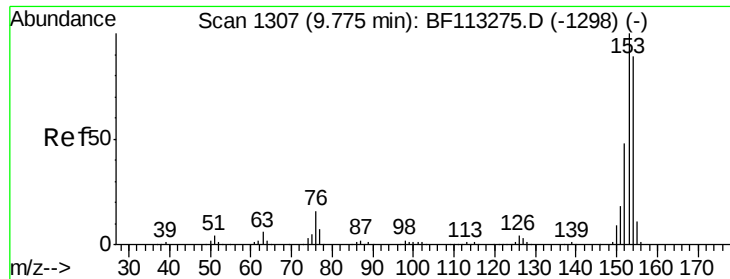


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 5.670 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

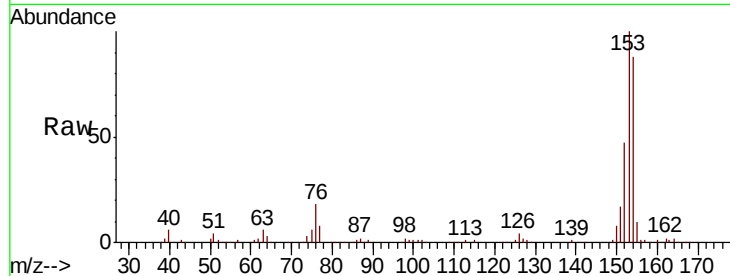
Tgt Ion:154 Resp: 109777

Ion Ratio Lower Upper

154 100

153 114.3 89.5 134.3

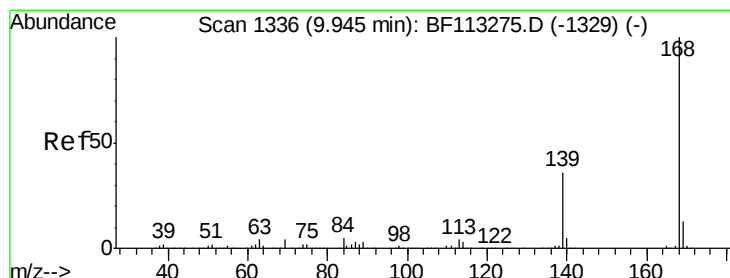
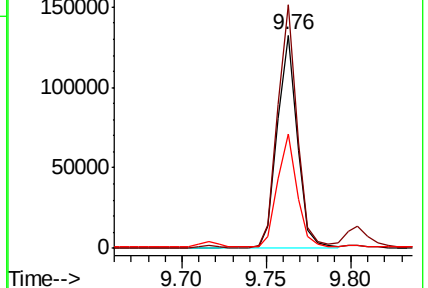
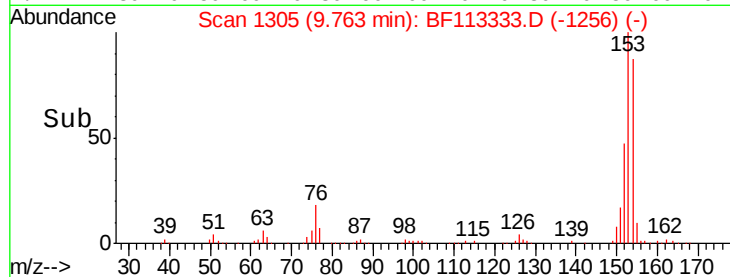
152 53.8 43.3 64.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 6.003 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

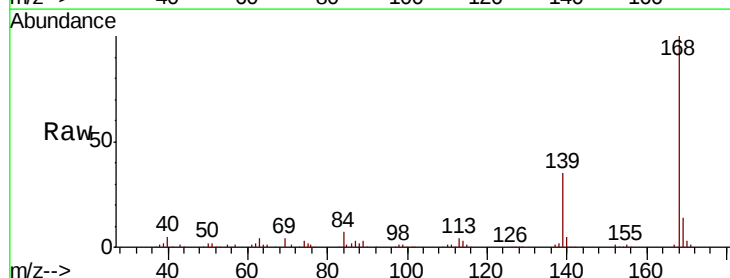
Tgt Ion:168 Resp: 174740

Ion Ratio Lower Upper

168 100

139 35.0 29.7 44.5

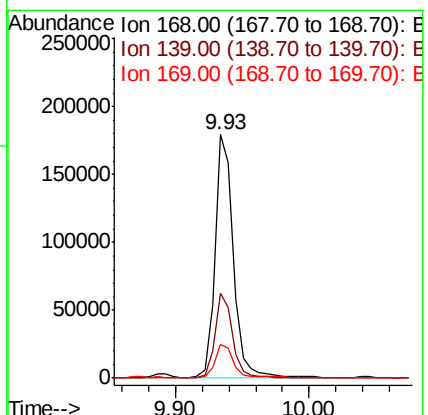
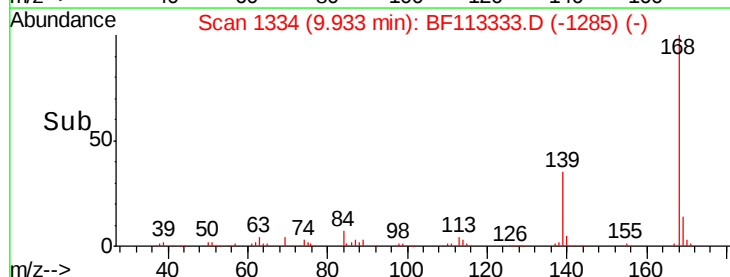
169 13.8 10.7 16.1

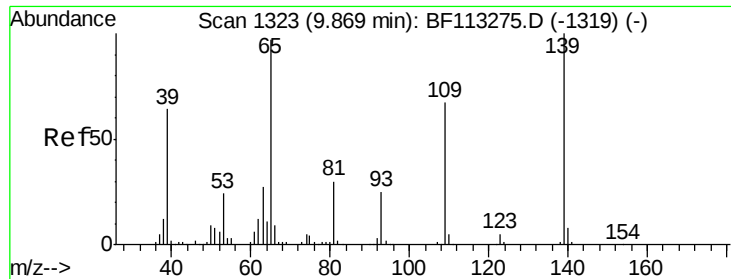


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

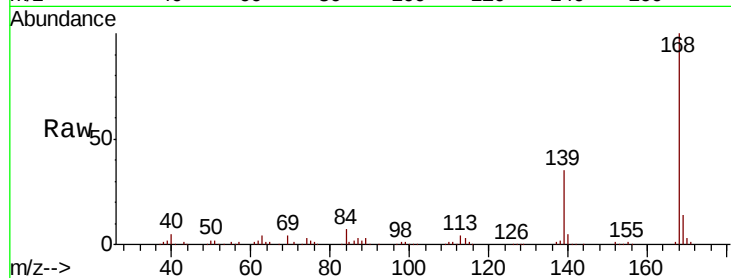




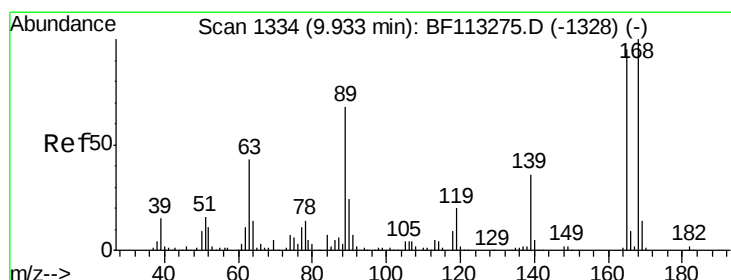
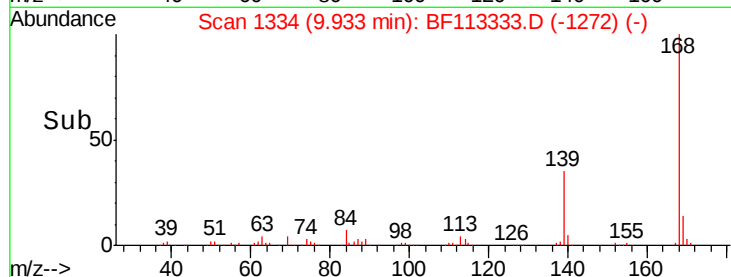
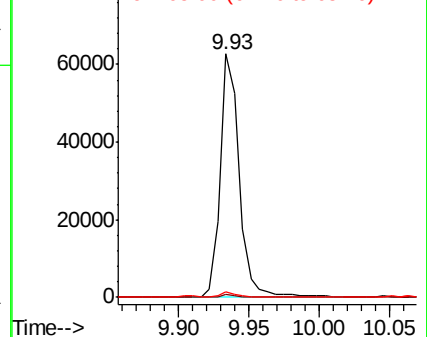
#56  
4-Nitrophenol  
Concen: 13.236 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. 0.06 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Instrument :  
BNA\_F  
ClientSampleId :  
CS-13

Tgt Ion:139 Resp: 58827  
Ion Ratio Lower Upper  
139 100  
109 1.1 46.9 86.9#  
65 2.0 77.2 117.2#

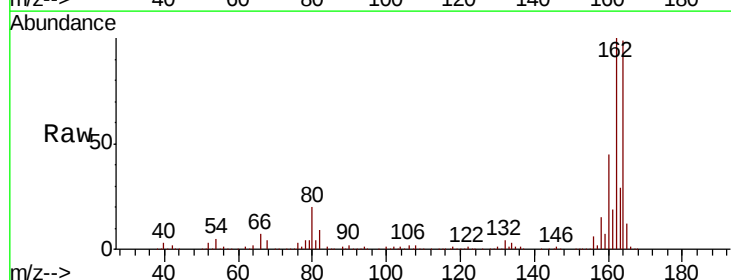


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

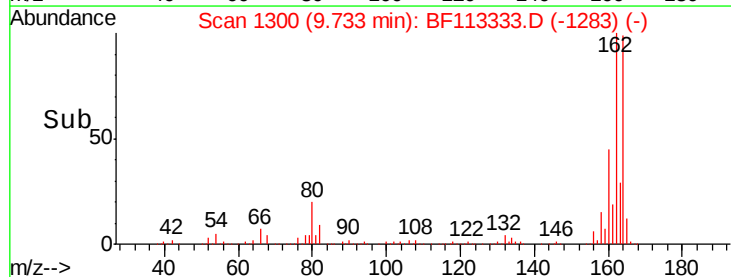
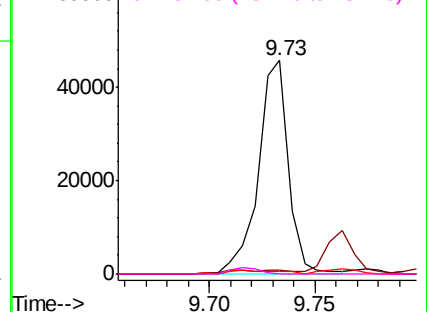


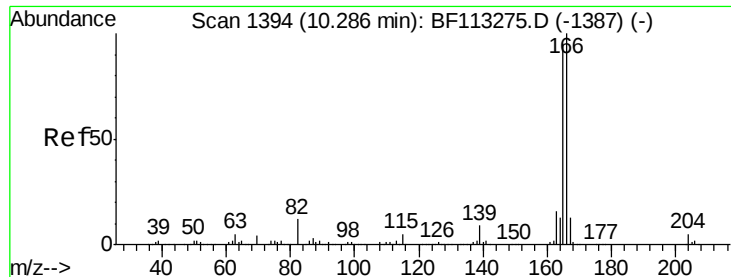
#57  
2,4-Dinitrotoluene  
Concen: 6.498 ng  
RT: 9.73 min Scan# 1300  
Delta R.T. -0.20 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Tgt Ion:165 Resp: 45679  
Ion Ratio Lower Upper  
165 100  
63 1.8 37.5 56.3#  
89 1.3 57.4 86.2#  
182 0.0 2.0 3.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 6.135 ng

RT: 10.27 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

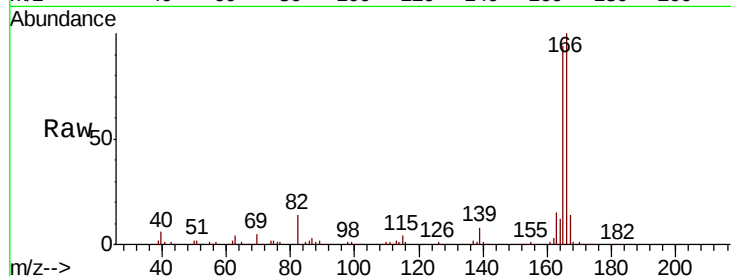
Tgt Ion:166 Resp: 138719

Ion Ratio Lower Upper

166 100

165 94.2 76.2 114.2

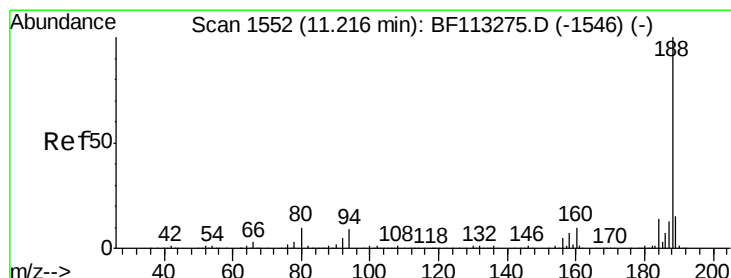
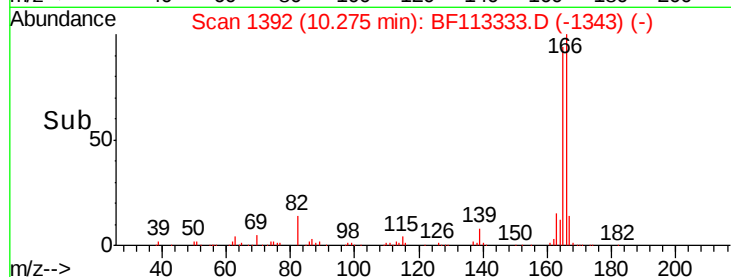
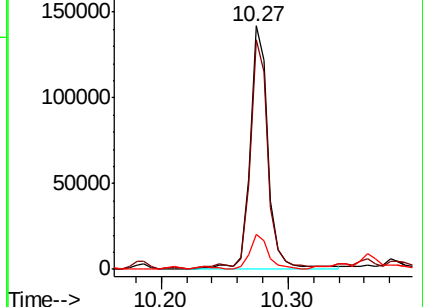
167 14.4 10.7 16.1



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

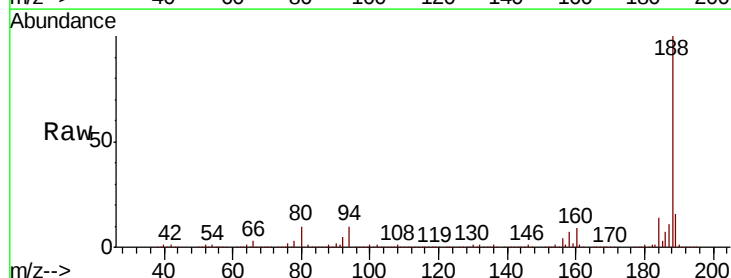
Tgt Ion:188 Resp: 621722

Ion Ratio Lower Upper

188 100

94 9.5 7.0 10.6

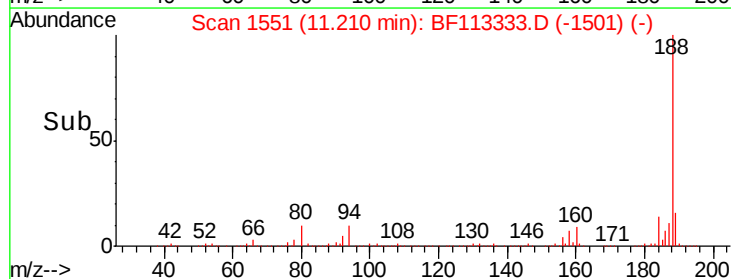
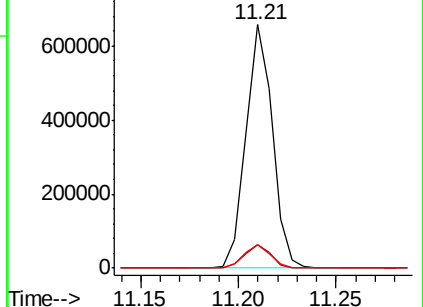
80 9.8 7.7 11.5

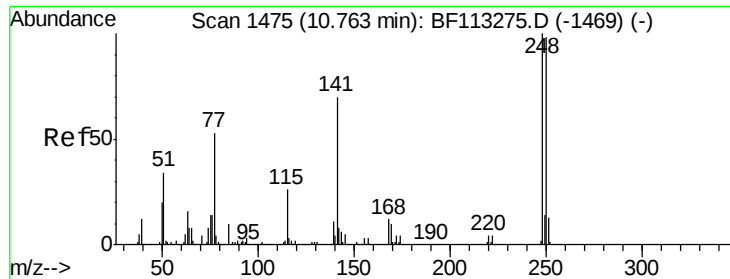


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

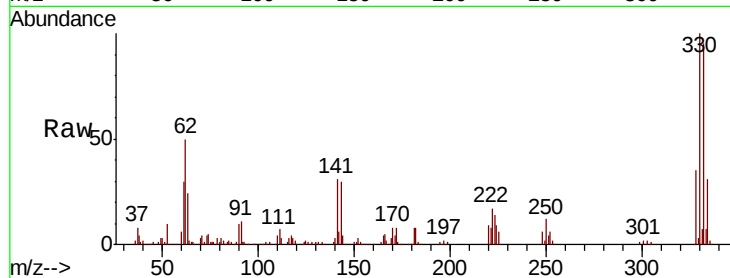




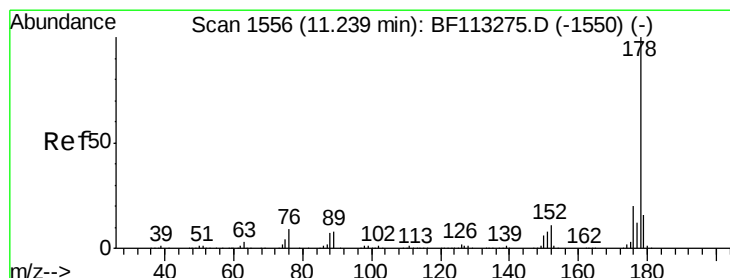
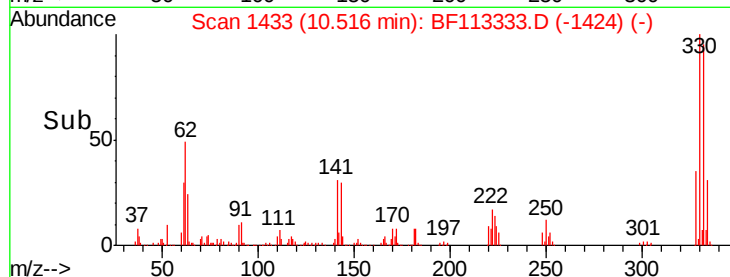
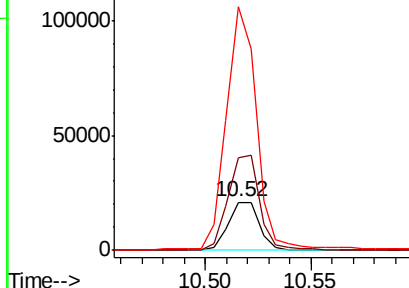
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.163 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.25 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

Instrument :  
 BNA\_F  
 ClientSampled :  
 CS-13

Tgt Ion:248 Resp: 21434  
 Ion Ratio Lower Upper  
 248 100  
 250 190.2 78.3 117.5#  
 141 503.3 56.2 84.4#

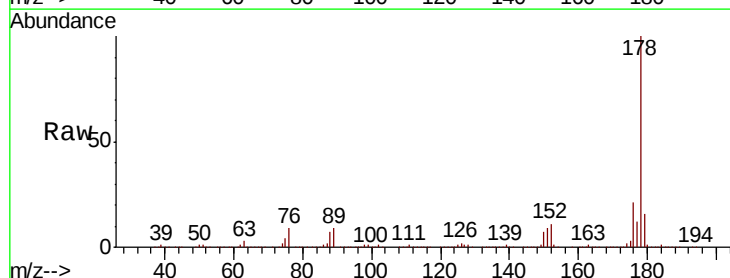


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

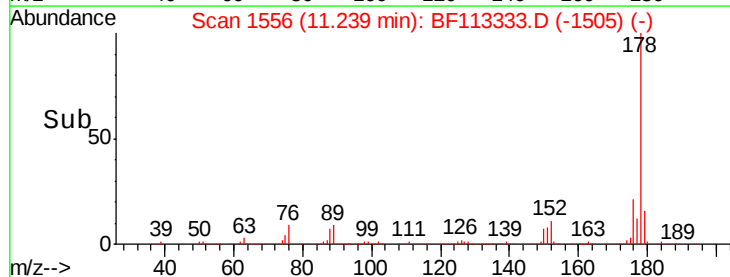
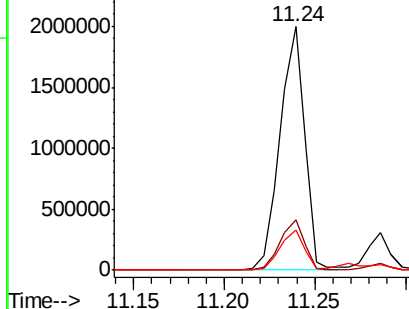


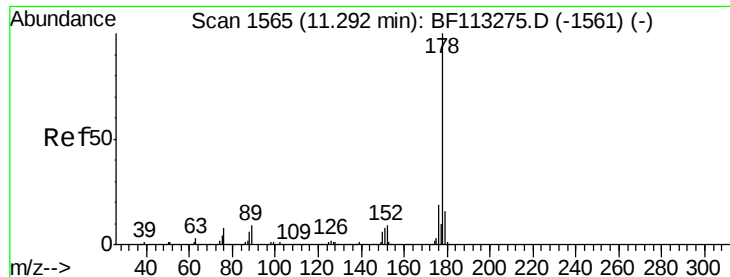
#71  
 Phenanthrene  
 Concen: 61.329 ng  
 RT: 11.24 min Scan# 1556  
 Delta R.T. 0.00 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

Tgt Ion:178 Resp: 1893515  
 Ion Ratio Lower Upper  
 178 100  
 176 20.7 16.2 24.2  
 179 16.3 12.7 19.1



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





#72

Anthracene

Concen: 7.997 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

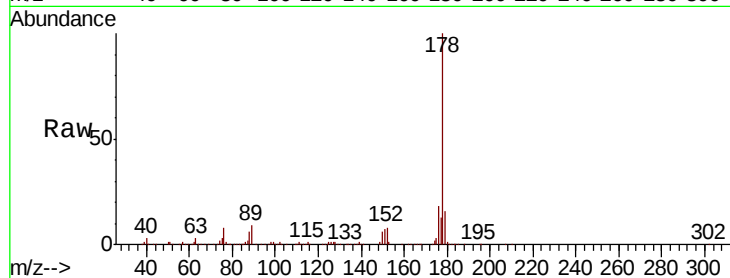
Tgt Ion:178 Resp: 250792

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

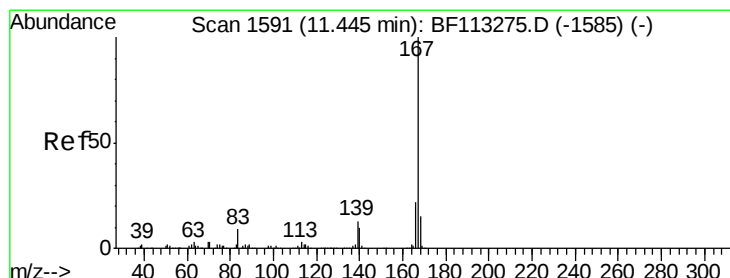
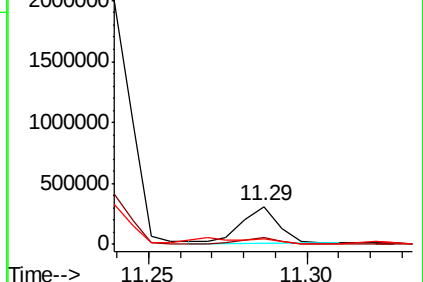
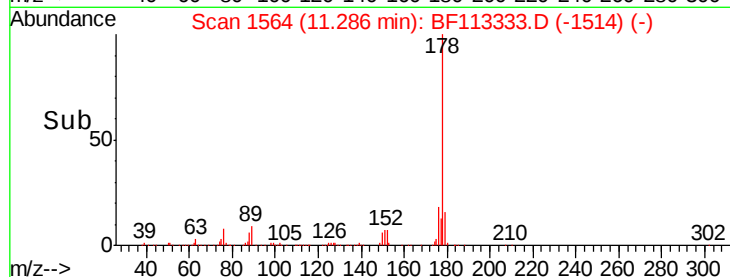
179 16.0 12.8 19.2



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



#73

Carbazole

Concen: 12.654 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

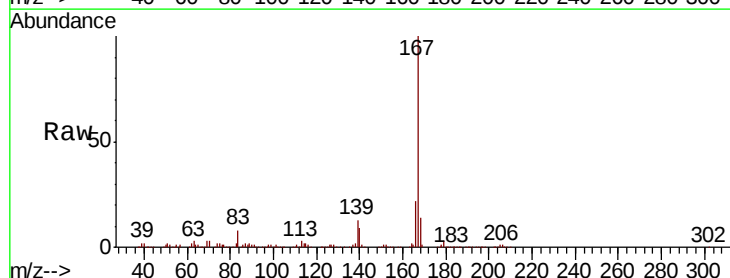
Tgt Ion:167 Resp: 378666

Ion Ratio Lower Upper

167 100

166 21.8 17.4 26.0

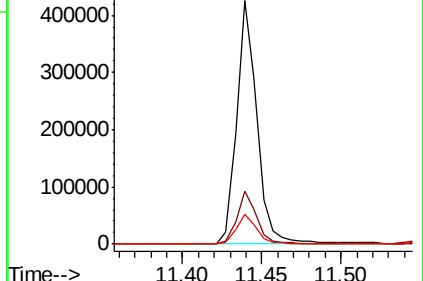
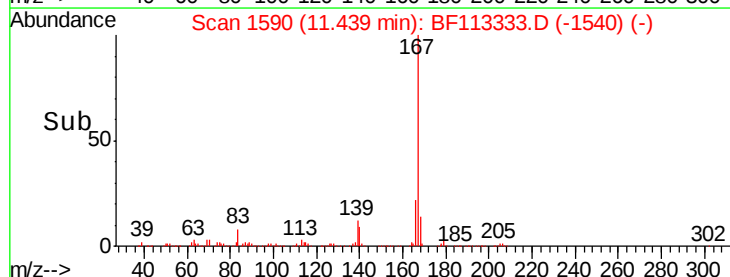
139 12.5 10.4 15.6

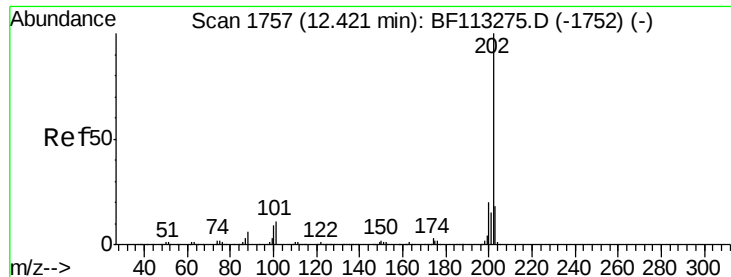


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 111.953 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

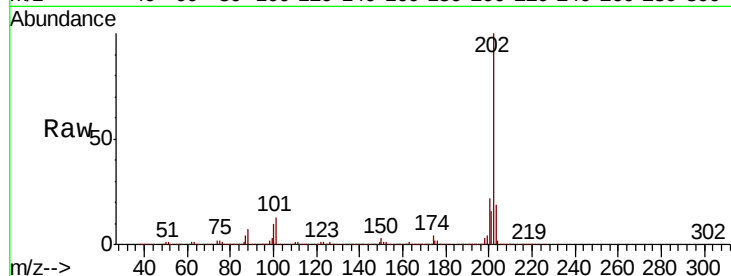
Tgt Ion:202 Resp: 3907558

Ion Ratio Lower Upper

202 100

101 12.7 0.0 31.4

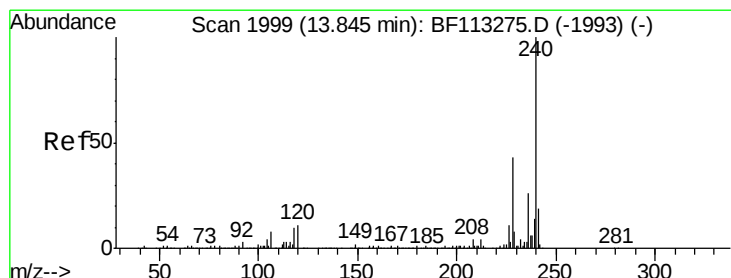
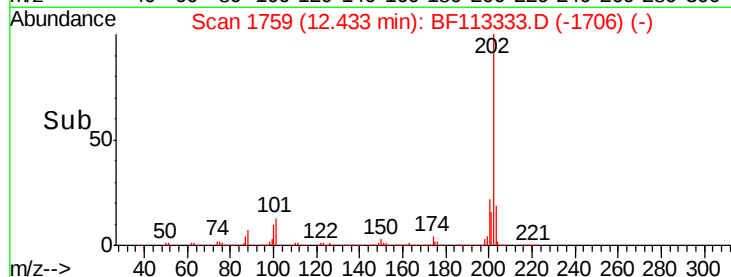
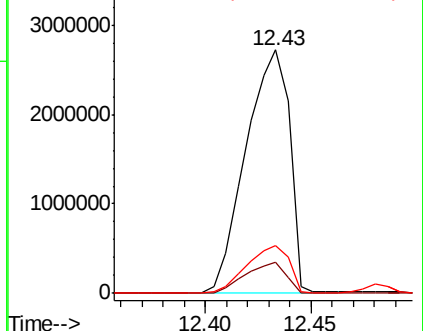
203 19.4 0.0 38.0



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

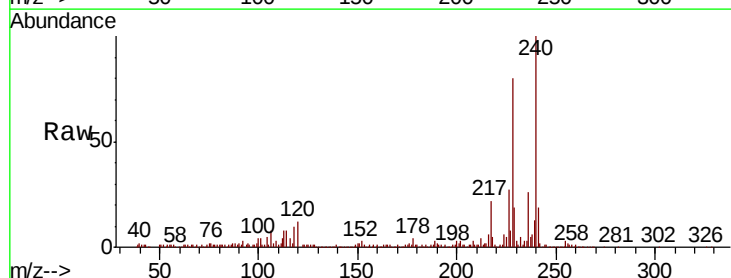
Tgt Ion:240 Resp: 409456

Ion Ratio Lower Upper

240 100

120 12.1 8.8 13.2

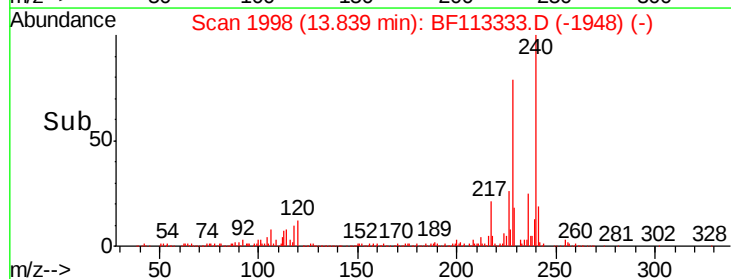
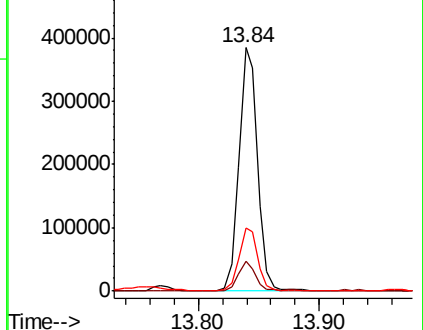
236 25.7 20.9 31.3

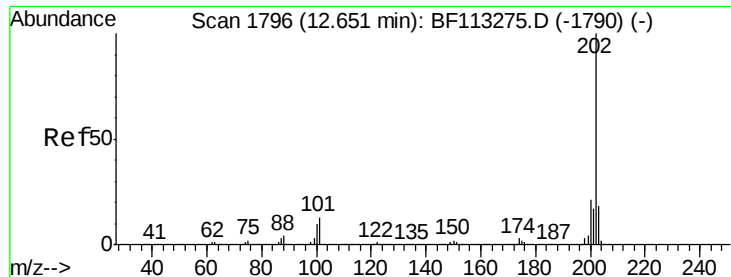


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 112.756 ng

RT: 12.66 min Scan# 1797

Delta R.T. 0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

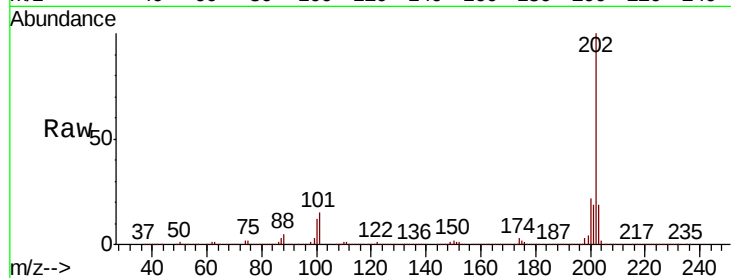
Tgt Ion:202 Resp: 3199325

Ion Ratio Lower Upper

202 100

200 22.2 16.8 25.2

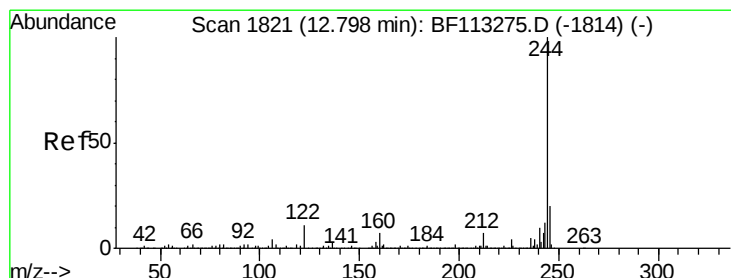
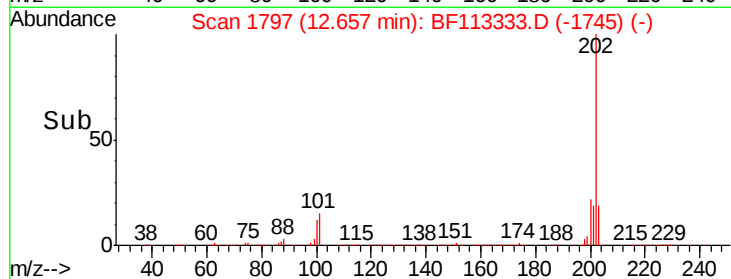
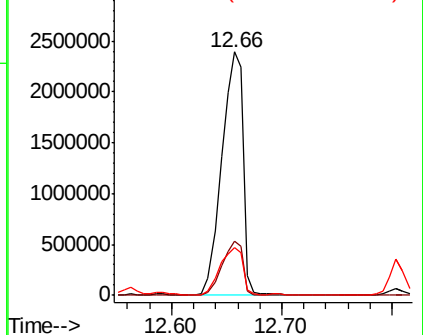
203 19.5 14.4 21.6



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



#79

Terphenyl-d14

Concen: 78.980 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.00 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

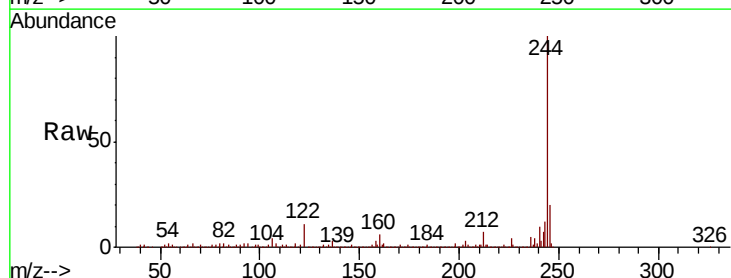
Tgt Ion:244 Resp: 1467166

Ion Ratio Lower Upper

244 100

212 6.7 5.5 8.3

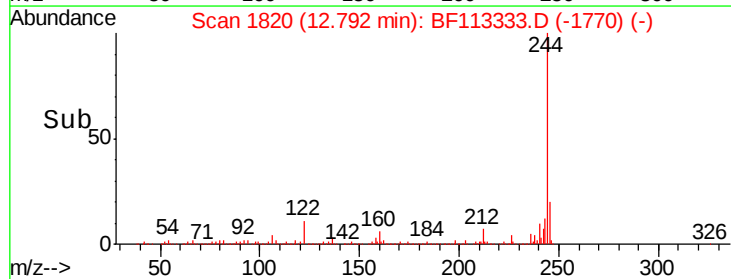
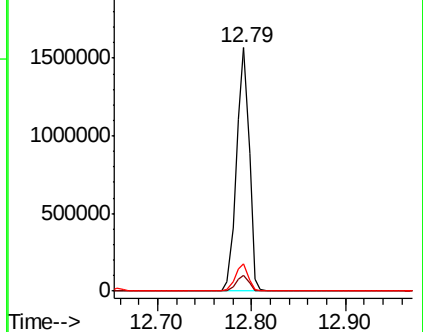
122 11.0 8.6 13.0

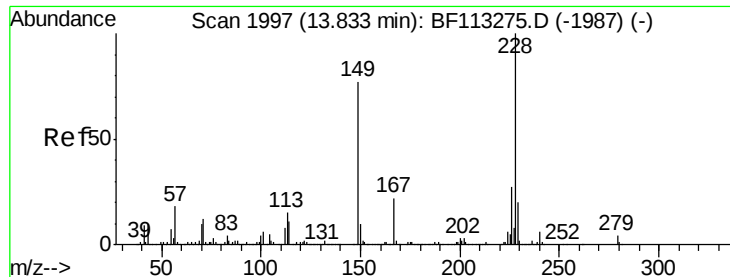


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 32.683 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

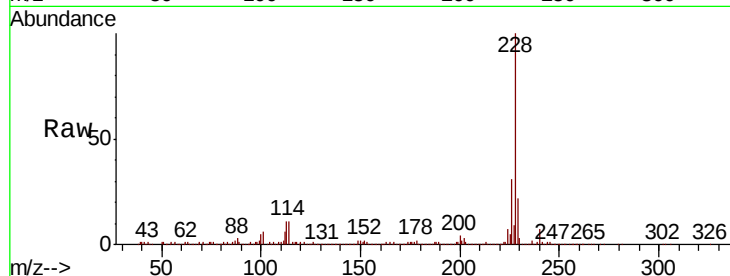
Tgt Ion:228 Resp: 766012

Ion Ratio Lower Upper

228 100

226 30.8 21.8 32.8

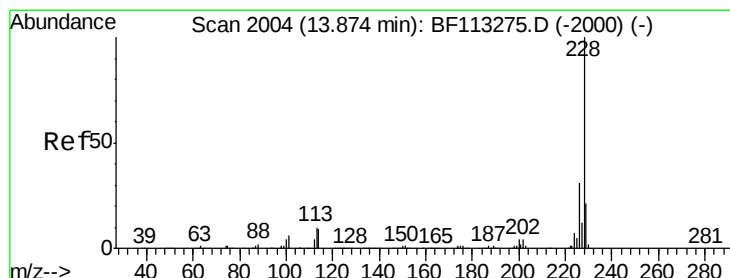
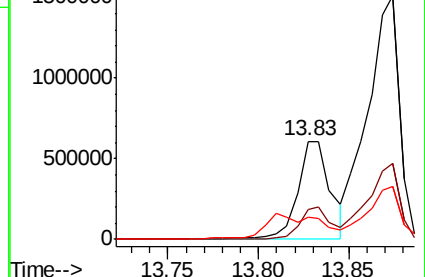
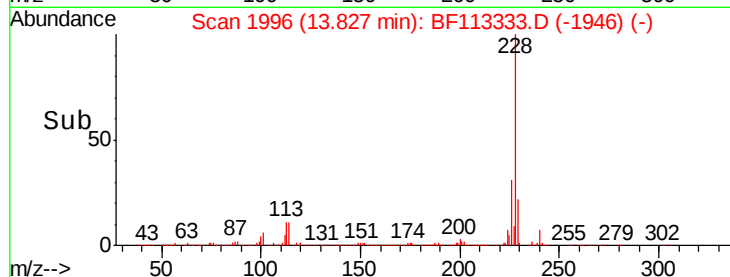
229 22.1 16.2 24.4



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



#83

Chrysene

Concen: 77.616 ng

RT: 13.87 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

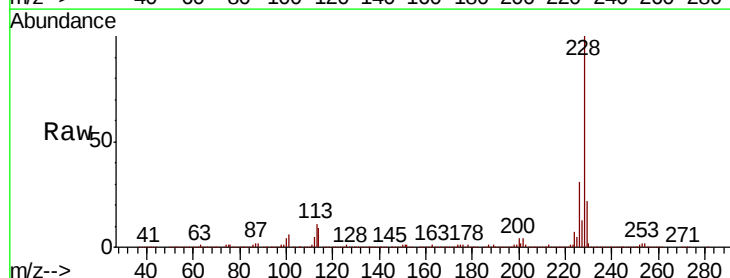
Tgt Ion:228 Resp: 1847768

Ion Ratio Lower Upper

228 100

226 31.4 24.3 36.5

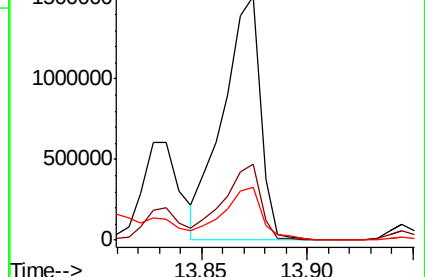
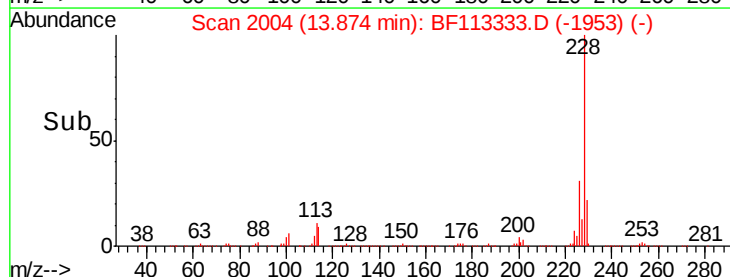
229 22.0 16.3 24.5

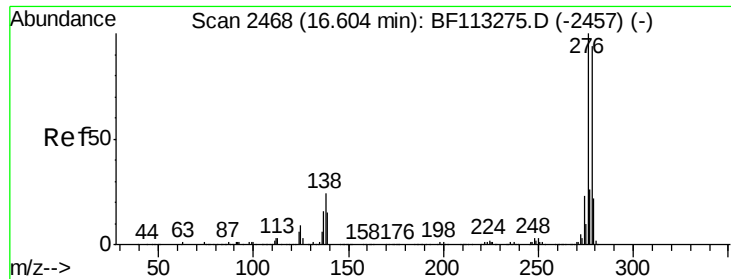


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

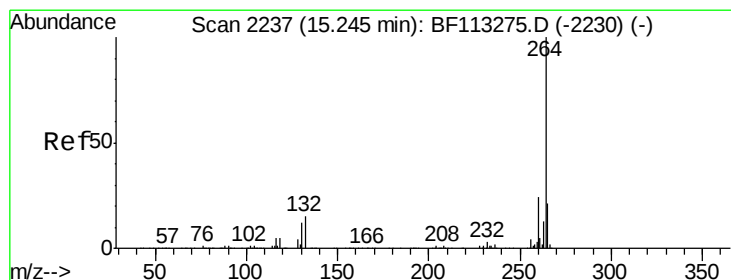
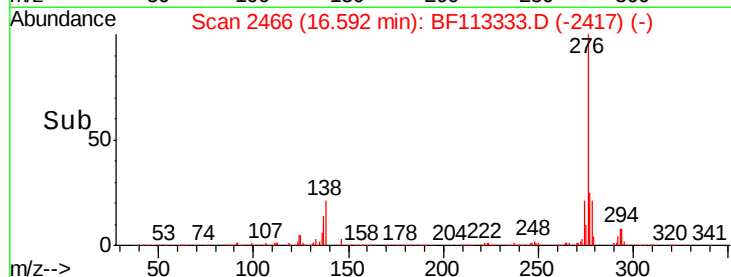
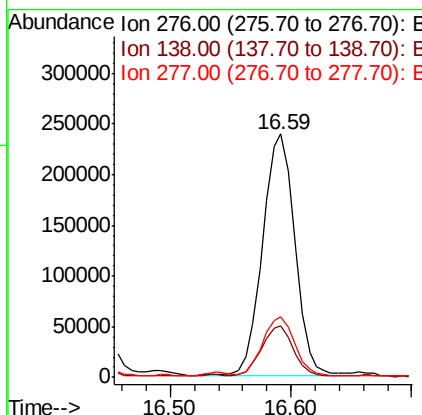
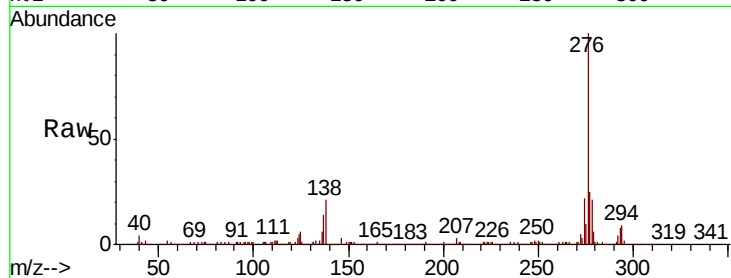




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 21.636 ng  
 RT: 16.59 min Scan# 2466  
 Delta R.T. -0.01 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

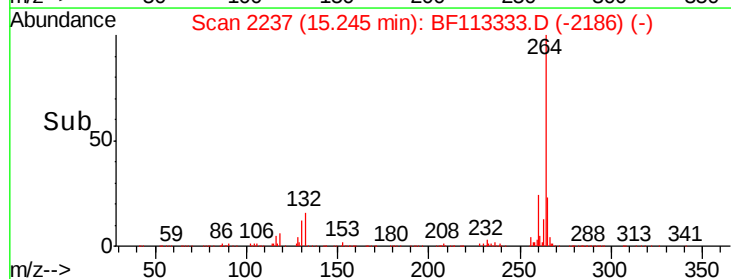
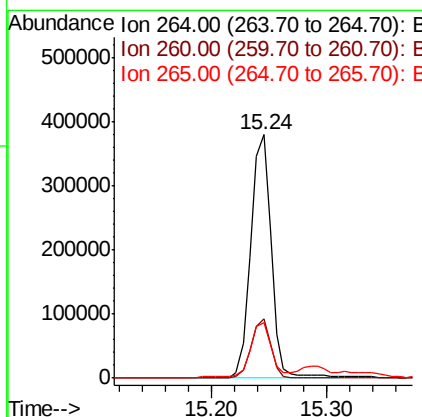
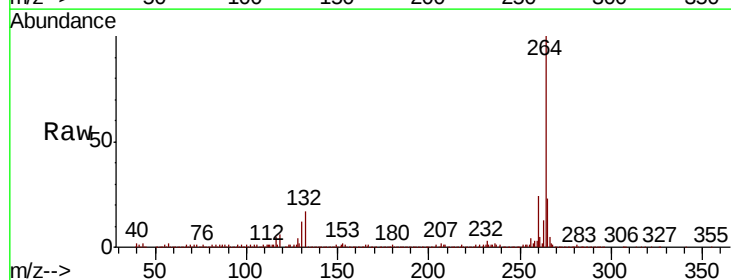
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-13

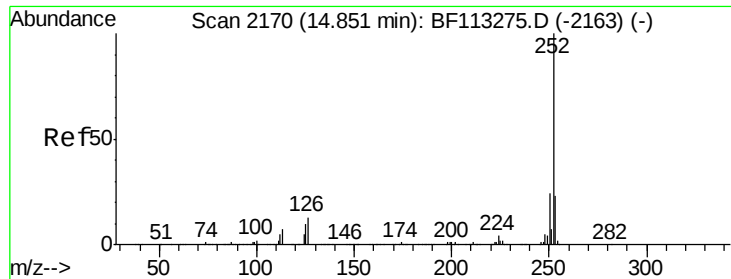
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 18.1  | 27.1  |
| 277     | 24.1  | 20.2  | 30.4  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.24 min Scan# 2237  
 Delta R.T. 0.00 min  
 Lab File: BF113333.D  
 Acq: 27 Mar 2019 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.1  | 28.7  |
| 265     | 22.8  | 17.1  | 25.7  |

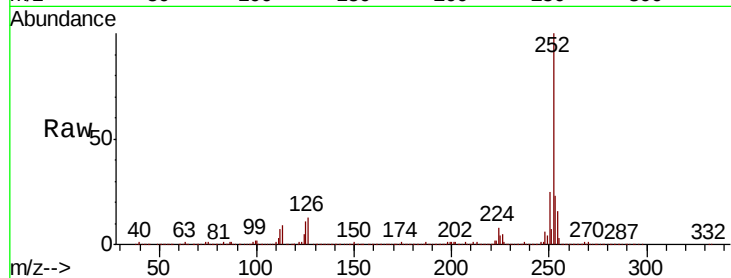




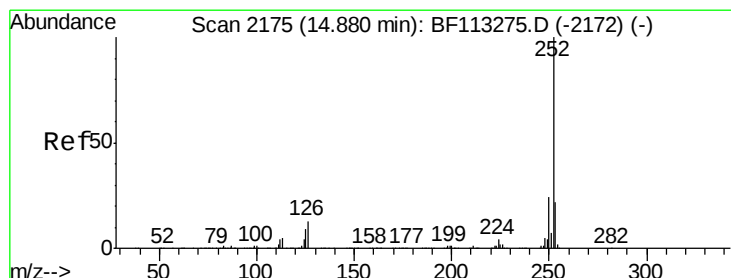
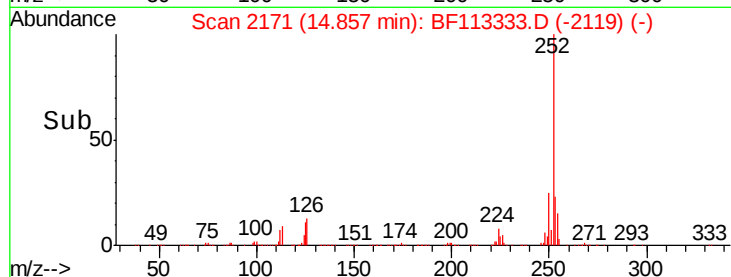
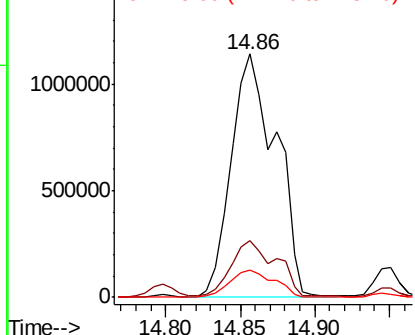
#88  
Benzo(b)fluoranthene  
Concen: 81.792 ng  
RT: 14.86 min Scan# 2171  
Delta R.T. 0.01 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Instrument :  
BNA\_F  
ClientSampleId :  
CS-13

Tgt Ion:252 Resp: 2384760  
Ion Ratio Lower Upper  
252 100  
253 23.3 18.0 27.0  
125 11.2 7.6 11.4

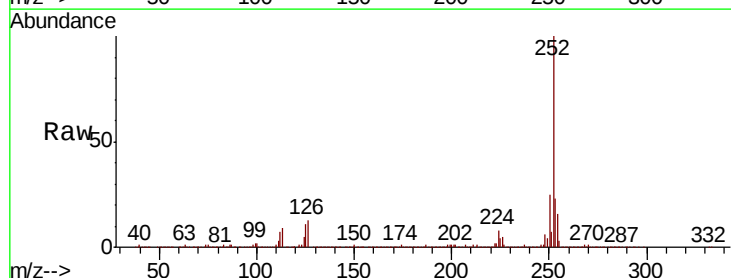


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

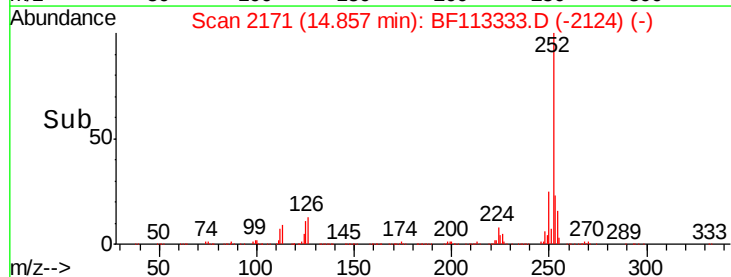
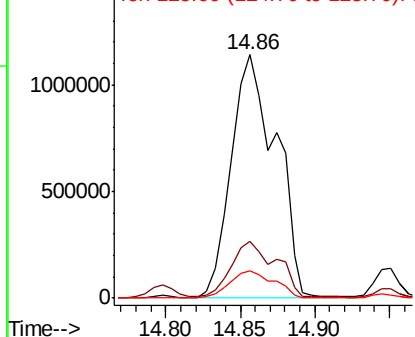


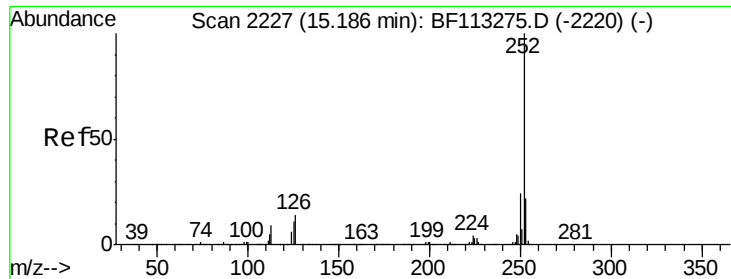
#89  
Benzo(k)fluoranthene  
Concen: 93.138 ng  
RT: 14.86 min Scan# 2171  
Delta R.T. -0.02 min  
Lab File: BF113333.D  
Acq: 27 Mar 2019 16:19

Tgt Ion:252 Resp: 2384760  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.7 26.5  
125 11.2 7.3 10.9#



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





#90

Benzo(a)pyrene

Concen: 21.490 ng

RT: 15.19 min Scan# 2227

Delta R.T. 0.00 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampled :

CS-13

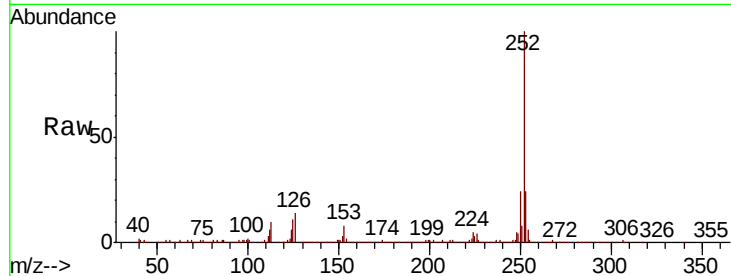
Tgt Ion:252 Resp: 555477

Ion Ratio Lower Upper

252 100

253 24.0 17.9 26.9

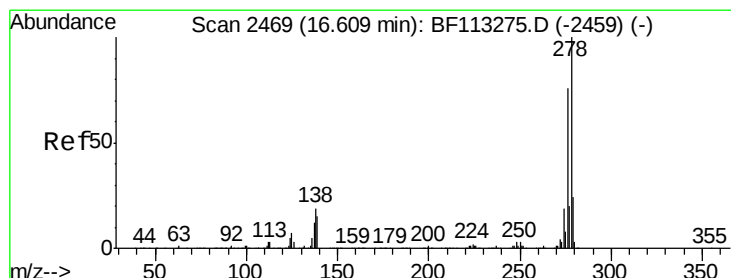
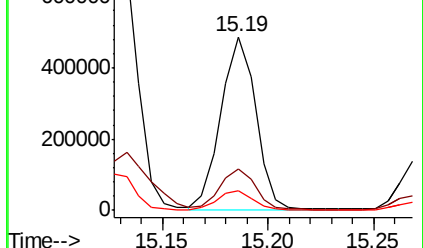
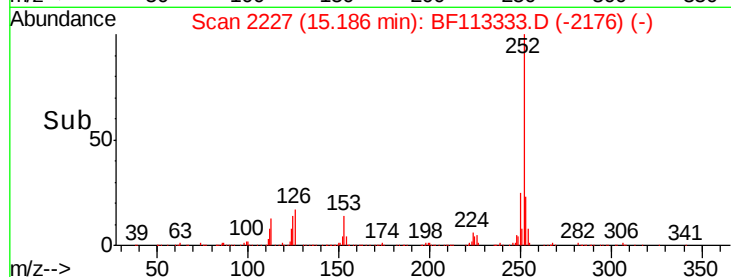
125 11.1 8.8 13.2



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



#91

Dibenzo(a,h)anthracene

Concen: 3.019 ng

RT: 16.42 min Scan# 2436

Delta R.T. -0.19 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

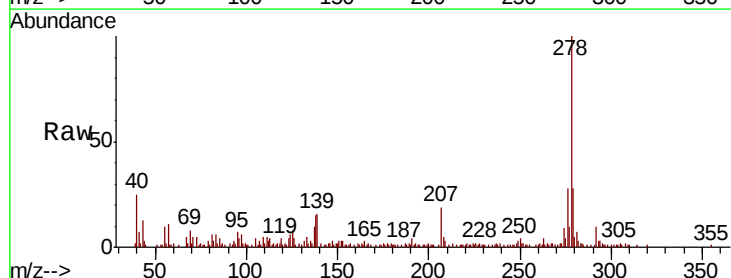
Tgt Ion:278 Resp: 67474

Ion Ratio Lower Upper

278 100

139 16.1 12.0 18.0

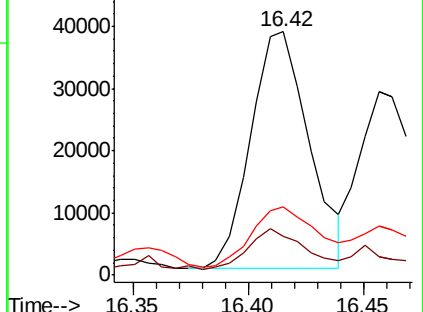
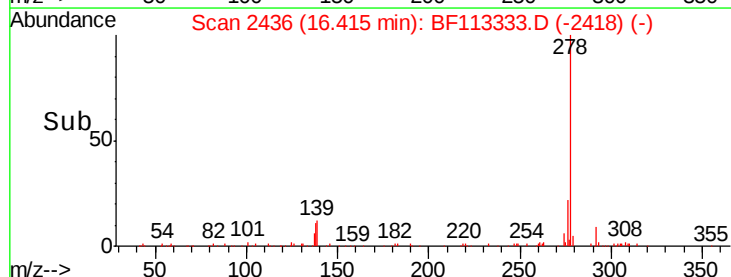
279 28.0 19.0 28.6

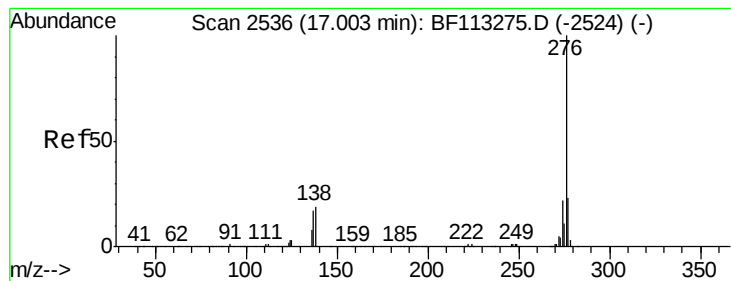


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(g,h,i)perylene

Concen: 16.165 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

CS-13

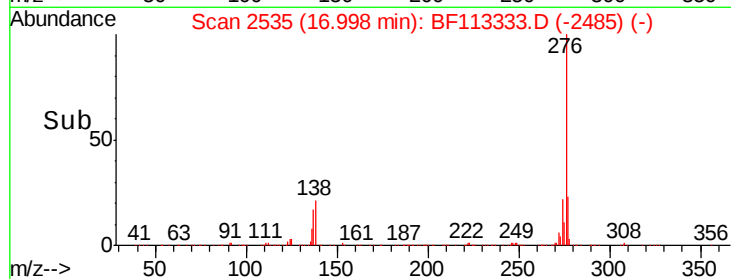
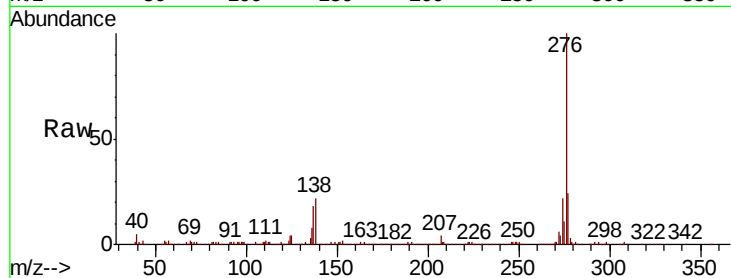
Tgt Ion: 276 Resp: 364276

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 21.6 15.6 23.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

