

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF080516\  
 Data File : BF089632.D  
 Acq On : 5 Aug 2016 16:02  
 Operator : UM/SJ  
 Sample : H4292-05  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS8-0-2IN

Quant Time: Aug 05 23:04:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF080416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 05 01:39:23 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.44  | 152  | 49626    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 9.46  | 136  | 210980   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 12.29 | 164  | 95231    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 14.69 | 188  | 161175   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 18.38 | 240  | 101193   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 20.05 | 264  | 99356    | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 412290   | 139.25 | ng    | 0.04     |
| 7) Phenol-d6                | 6.99  | 99   | 539991   | 134.44 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 8.35  | 82   | 347316   | 91.06  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 13.59 | 330  | 102433   | 130.34 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 11.26 | 172  | 594947   | 81.19  | ng    | 0.00     |
| 78) Terphenyl-d14           | 17.05 | 244  | 369928   | 72.17  | ng    | 0.00     |

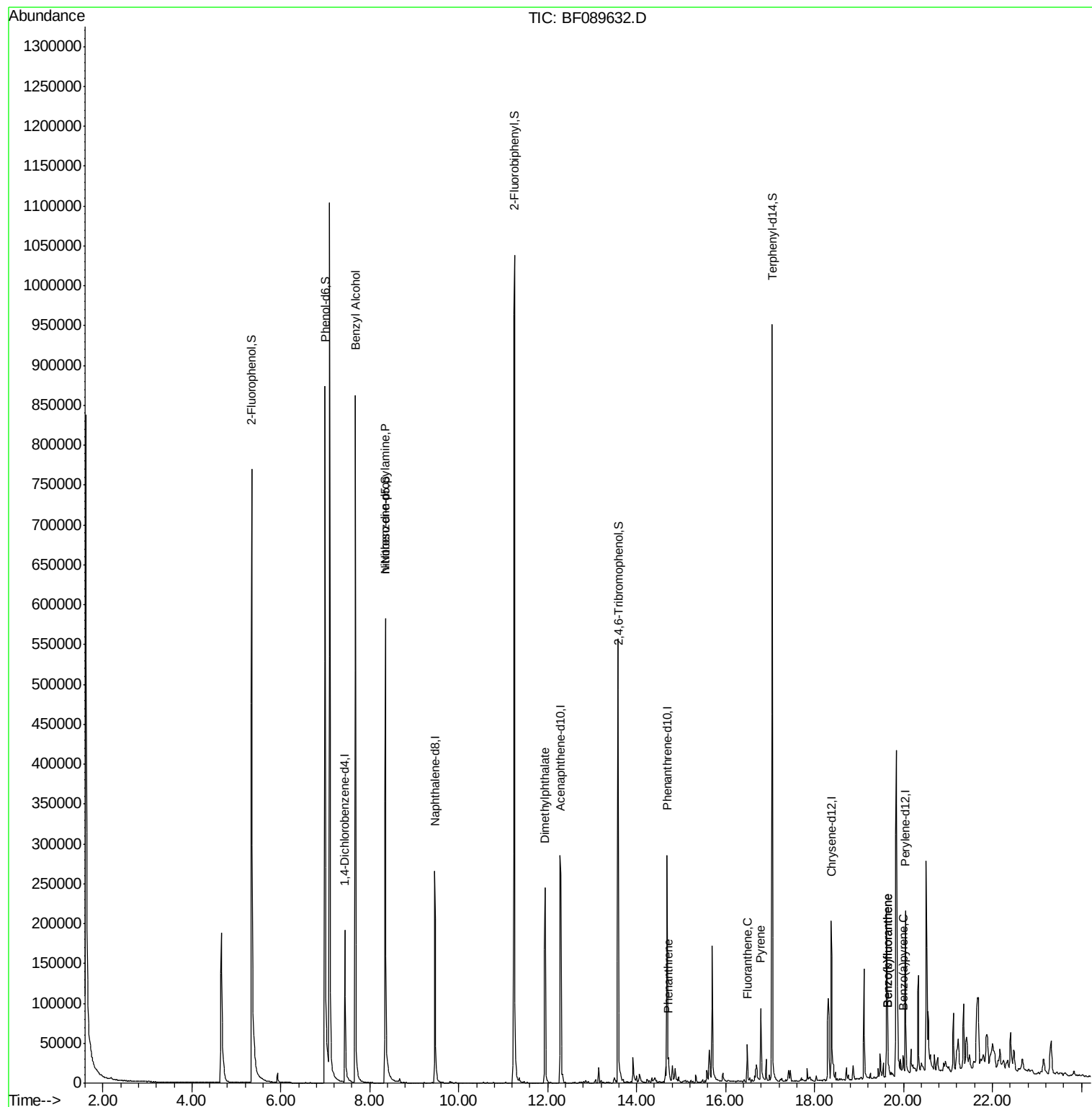
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 7.68  | 79   | 5598     | 2.13  | ng    | # 42   |
| 19) n-Nitroso-di-n-propylamine | 8.35  | 70   | 42851    | 14.77 | ng    | # 80   |
| 49) Dimethylphthalate          | 11.94 | 163  | 155035   | 20.77 | ng    | 100    |
| 70) Phenanthrene               | 14.72 | 178  | 18325    | 2.09  | ng    | 99     |
| 74) Fluoranthene               | 16.49 | 202  | 28552    | 3.17  | ng    | 97     |
| 77) Pyrene                     | 16.79 | 202  | 23656    | 2.64  | ng    | # 94   |
| 87) Benzo(b)fluoranthene       | 19.65 | 252  | 21331    | 3.49  | ng    | # 95   |
| 88) Benzo(k)fluoranthene       | 19.65 | 252  | 21331    | 3.46  | ng    | 99     |
| 89) Benzo(a)pyrene             | 19.99 | 252  | 12583    | 2.20  | ng    | # 88   |

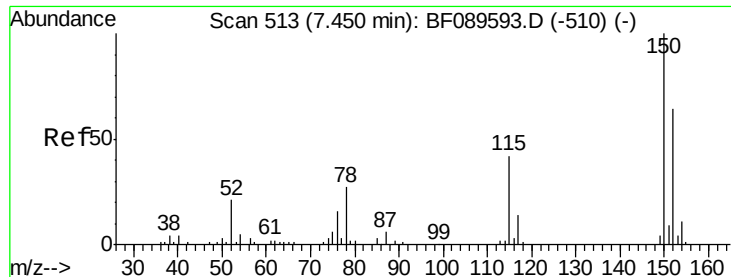
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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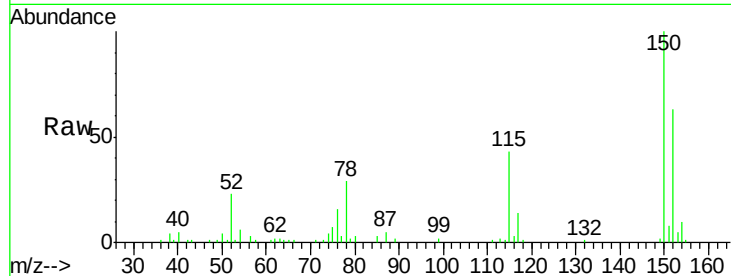


#1

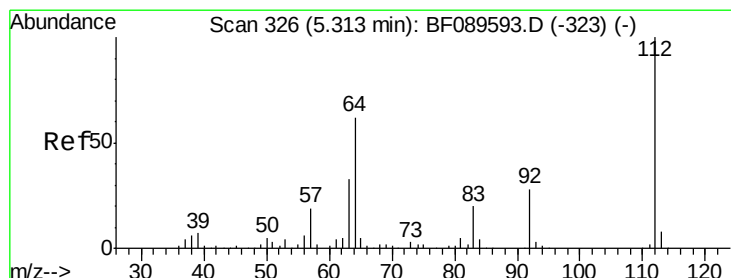
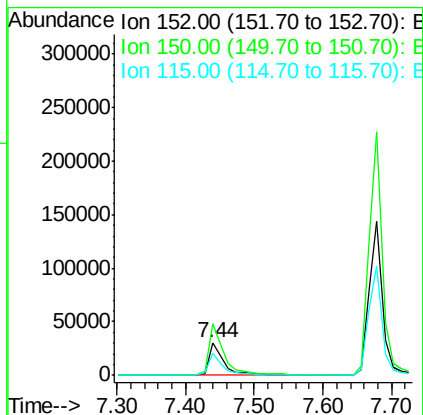
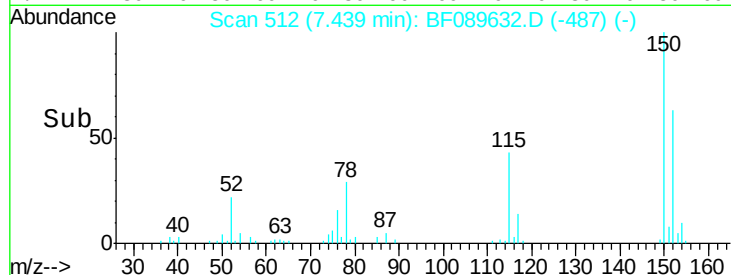
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.44 min Scan# 512  
Delta R.T. -0.01 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Instrument :  
BNA\_F  
ClientSampleId :  
SS8-0-2IN

Tgt Ion:152 Resp: 49626  
Ion Ratio Lower Upper  
152 100  
150 158.9 125.5 188.3  
115 67.9 52.0 78.0



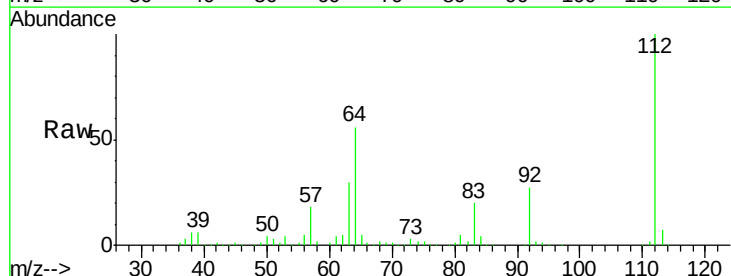
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



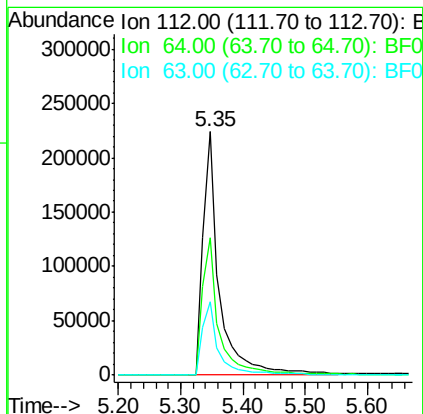
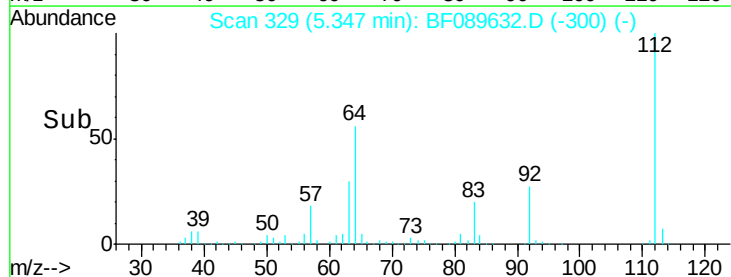
#5

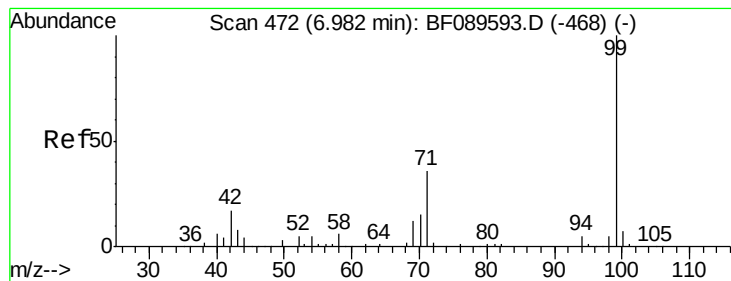
2-Fluorophenol  
Concen: 139.25 ng  
RT: 5.35 min Scan# 329  
Delta R.T. 0.04 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Tgt Ion:112 Resp: 412290  
Ion Ratio Lower Upper  
112 100  
64 56.4 49.9 74.9  
63 30.0 26.1 39.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 134.44 ng

RT: 6.99 min Scan# 473

Delta R.T. 0.01 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

Instrument :

BNA\_F

ClientSampleId :

SS8-0-2IN

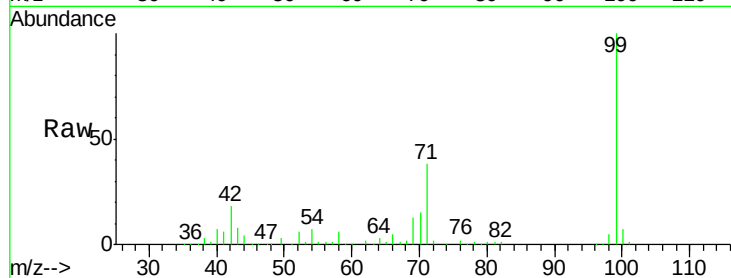
Tgt Ion: 99 Resp: 539991

Ion Ratio Lower Upper

99 100

42 17.6 13.7 20.5

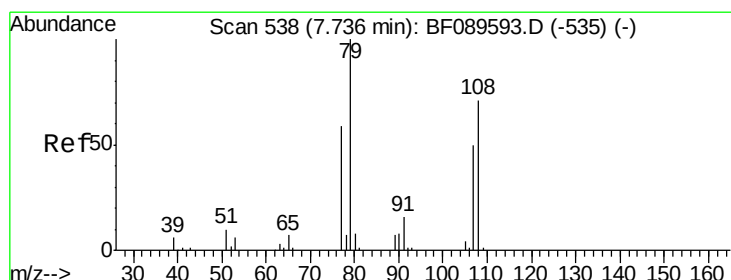
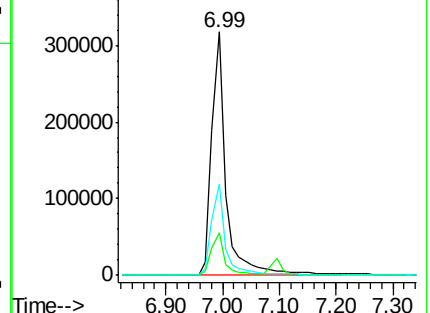
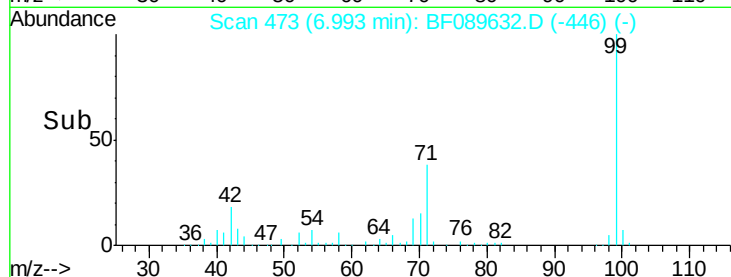
71 37.5 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#15

Benzyl Alcohol

Concen: 2.13 ng

RT: 7.68 min Scan# 533

Delta R.T. -0.06 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

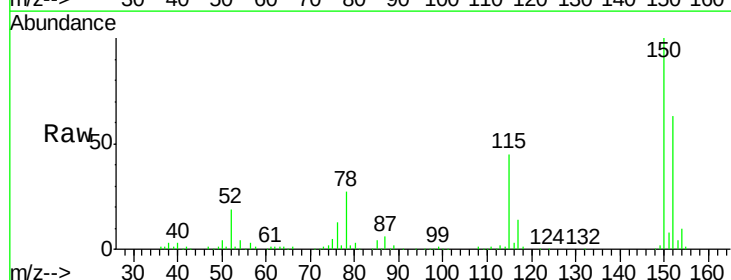
Tgt Ion: 79 Resp: 5598

Ion Ratio Lower Upper

79 100

108 30.2 58.3 87.5#

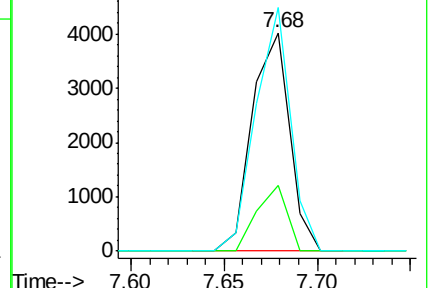
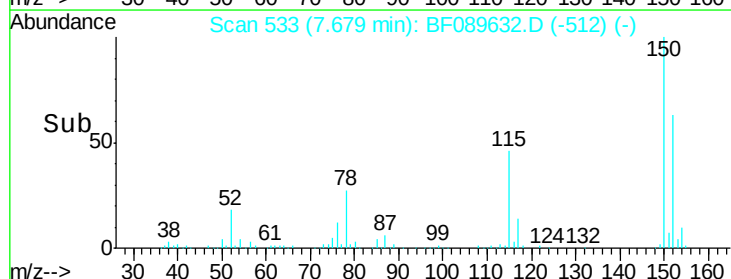
77 111.5 48.7 73.1#

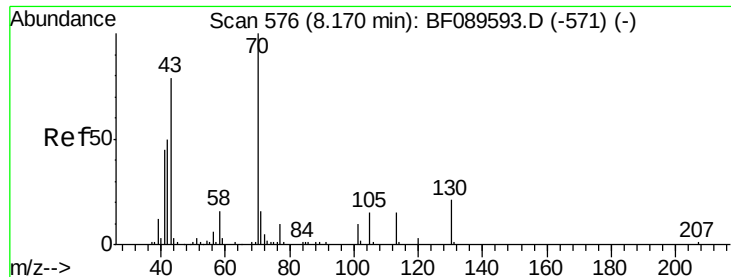


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

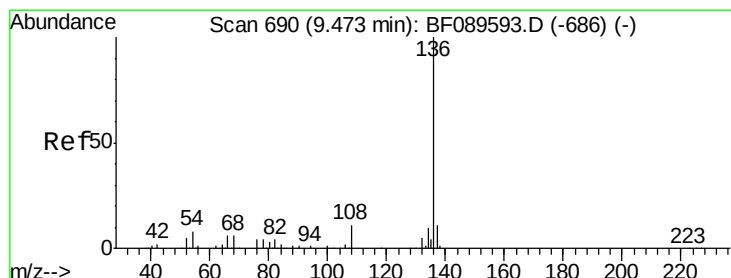
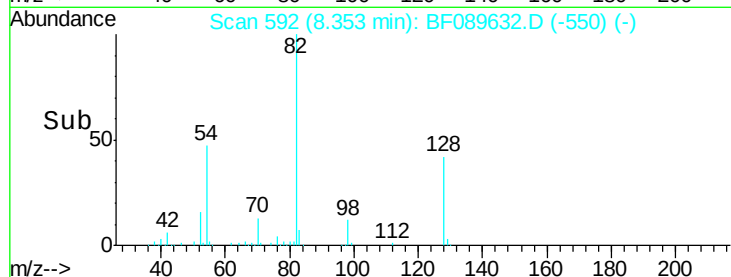
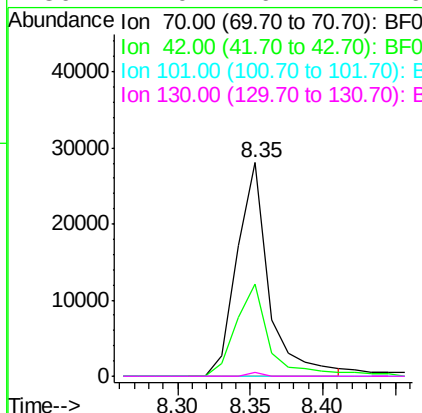
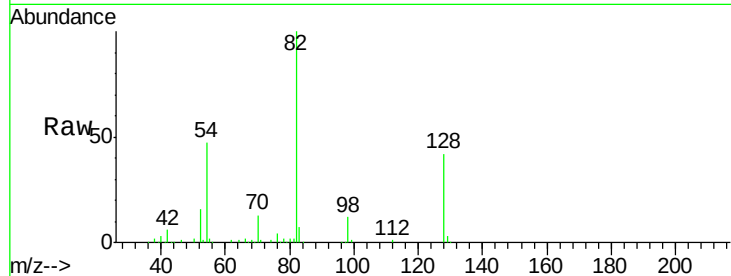




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.77 ng  
RT: 8.35 min Scan# 592  
Delta R.T. 0.18 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

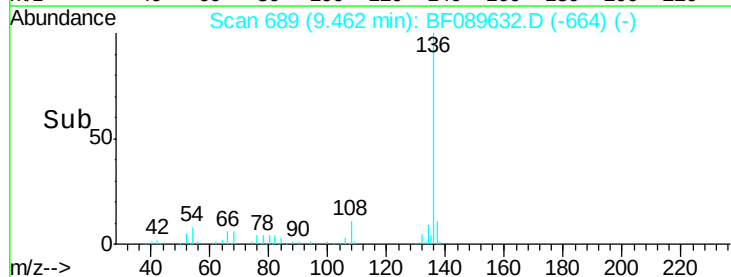
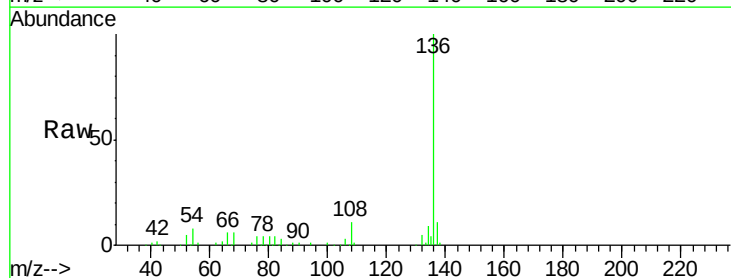
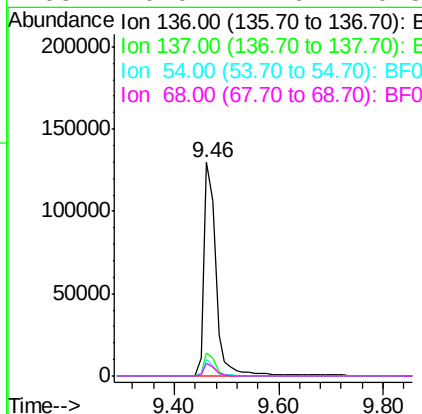
Instrument :  
BNA\_F  
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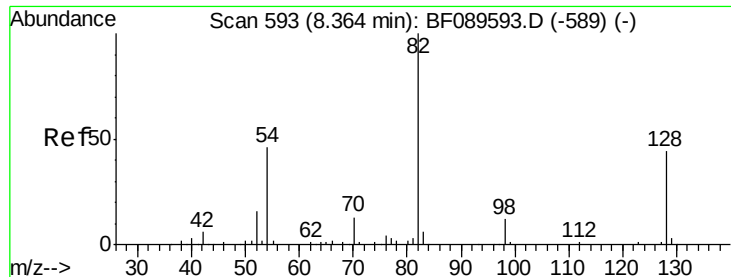
Tgt Ion: 70 Resp: 42851  
Ion Ratio Lower Upper  
70 100  
42 43.0 40.2 60.2  
101 0.0 7.8 11.6#  
130 2.0 16.4 24.6#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.46 min Scan# 689  
Delta R.T. -0.01 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Tgt Ion: 136 Resp: 210980  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 12.8  
54 8.1 6.0 9.0  
68 6.0 4.6 6.8

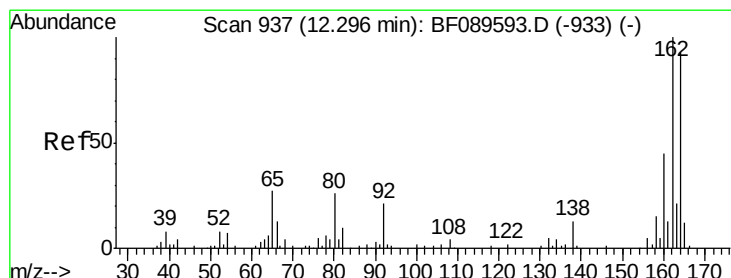
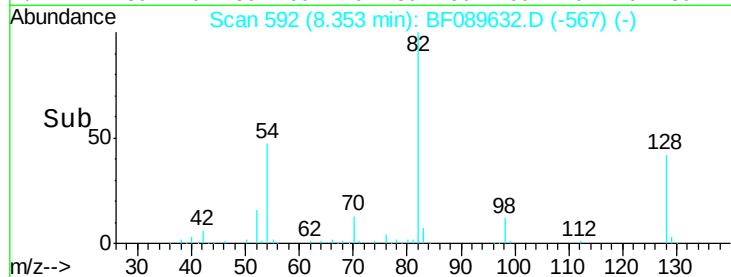
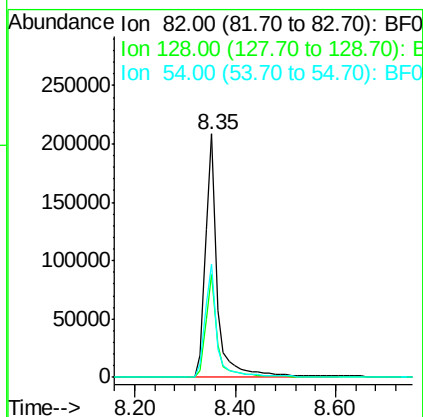
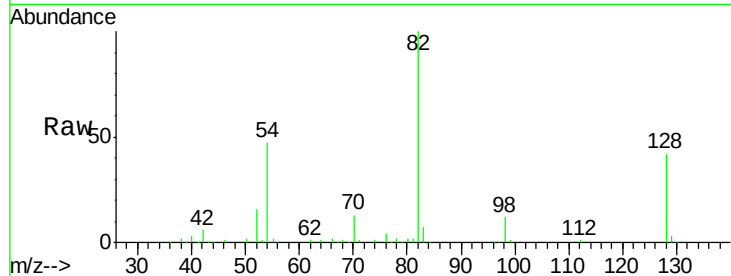




#23  
 Nitrobenzene-d5  
 Concen: 91.06 ng  
 RT: 8.35 min Scan# 592  
 Delta R.T. -0.01 min  
 Lab File: BF089632.D  
 Acq: 5 Aug 2016 16:02

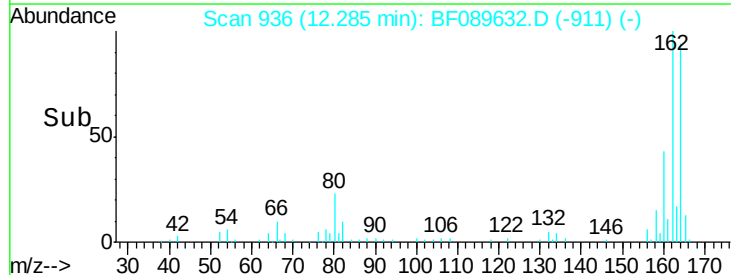
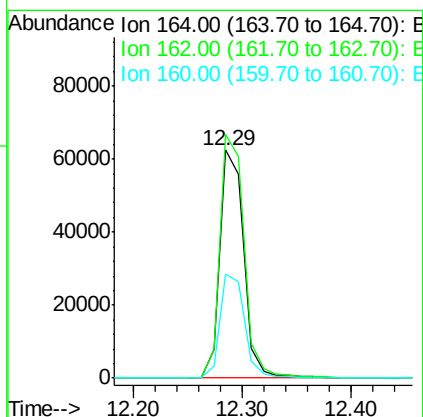
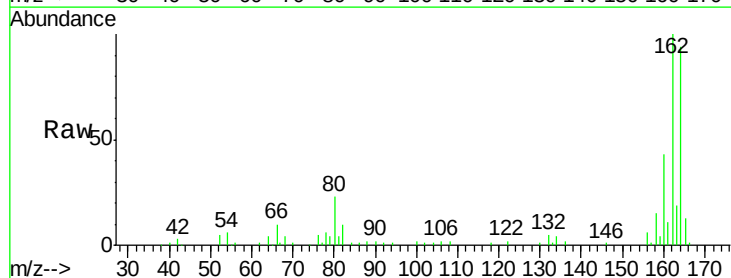
Instrument :  
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 SS8-0-2IN

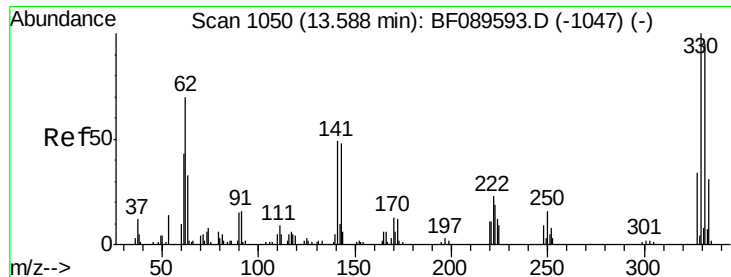
Tgt Ion: 82 Resp: 347316  
 Ion Ratio Lower Upper  
 82 100  
 128 42.3 35.4 53.0  
 54 46.6 36.4 54.6



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.29 min Scan# 936  
 Delta R.T. -0.01 min  
 Lab File: BF089632.D  
 Acq: 5 Aug 2016 16:02

Tgt Ion: 164 Resp: 95231  
 Ion Ratio Lower Upper  
 164 100  
 162 106.9 85.7 128.5  
 160 45.5 38.2 57.4

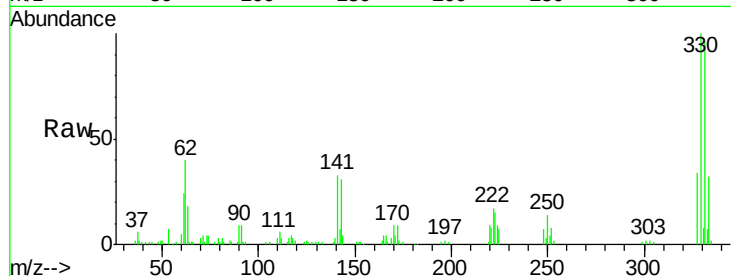




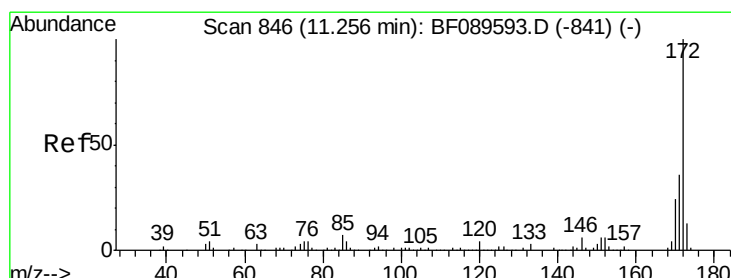
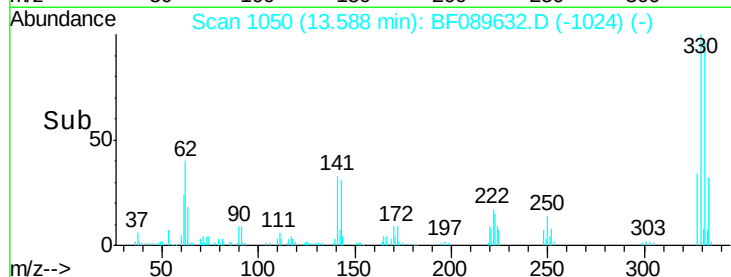
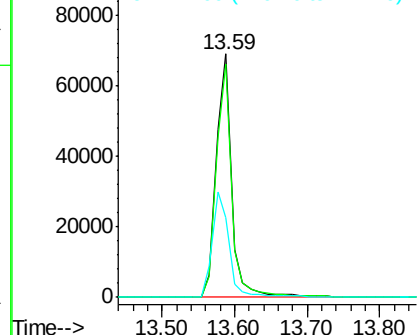
#41  
 2,4,6-Tribromophenol  
 Concen: 130.34 ng  
 RT: 13.59 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: BF089632.D  
 Acq: 5 Aug 2016 16:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS8-0-2IN

Tgt Ion:330 Resp: 102433  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 77.0 115.6  
 141 47.1 38.6 57.8

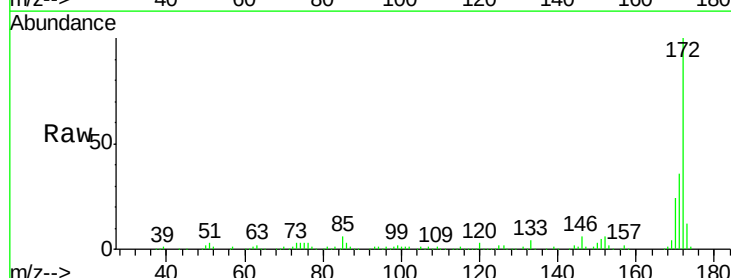


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

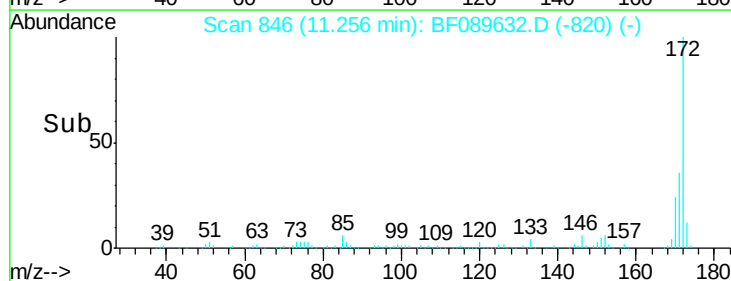
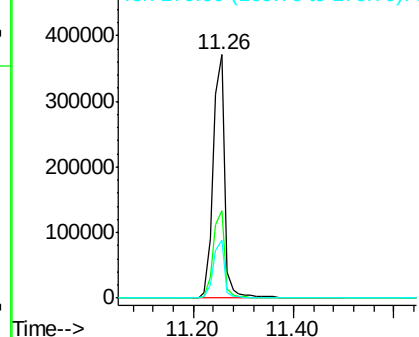


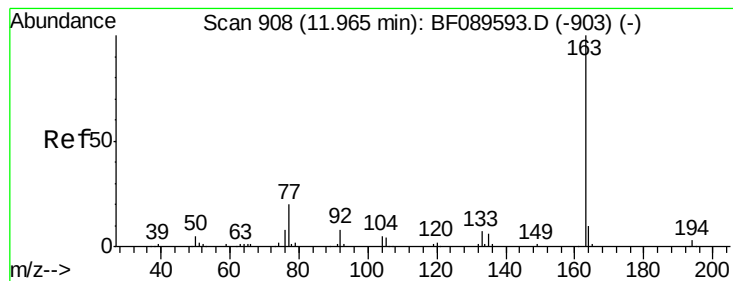
#44  
 2-Fluorobiphenyl  
 Concen: 81.19 ng  
 RT: 11.26 min Scan# 846  
 Delta R.T. 0.00 min  
 Lab File: BF089632.D  
 Acq: 5 Aug 2016 16:02

Tgt Ion:172 Resp: 594947  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 28.9 43.3  
 170 23.7 19.0 28.6



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

Dimethylphthalate

Concen: 20.77 ng

RT: 11.94 min Scan# 906

Delta R.T. -0.02 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

Instrument :

BNA\_F

ClientSampleId :

SS8-0-2IN

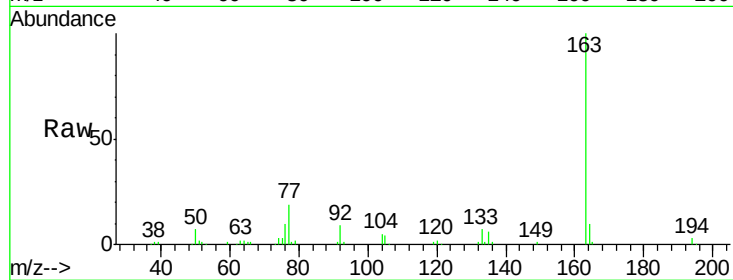
Tgt Ion:163 Resp: 155035

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

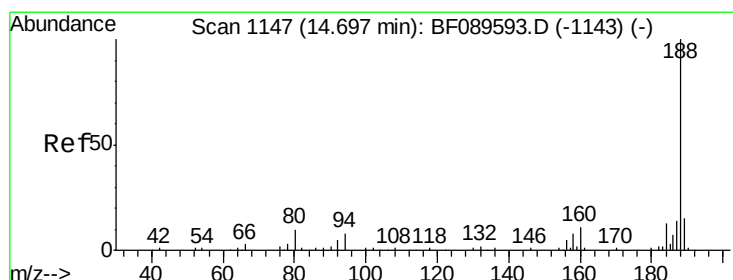
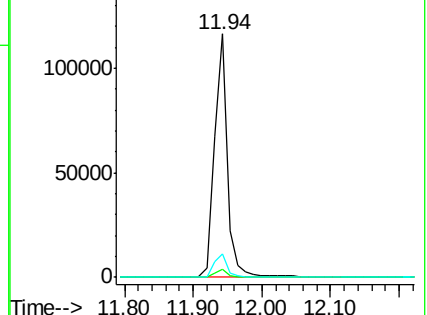
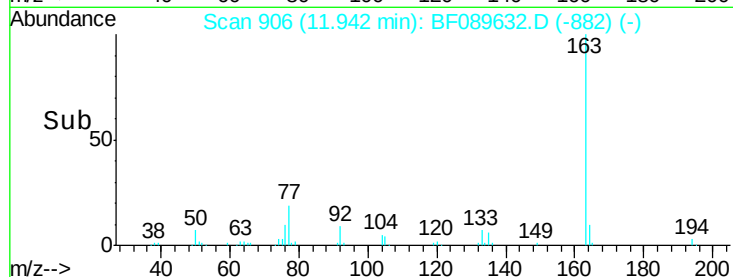
164 9.8 7.8 11.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.01 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

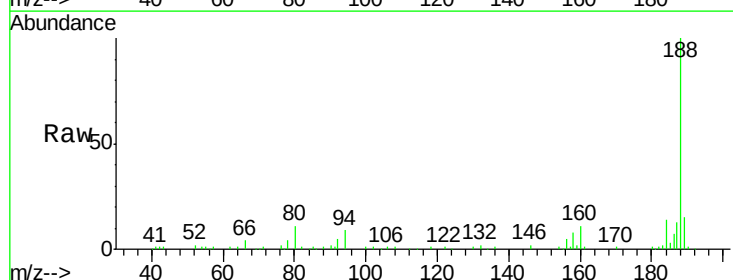
Tgt Ion:188 Resp: 161175

Ion Ratio Lower Upper

188 100

94 9.2 6.5 9.7

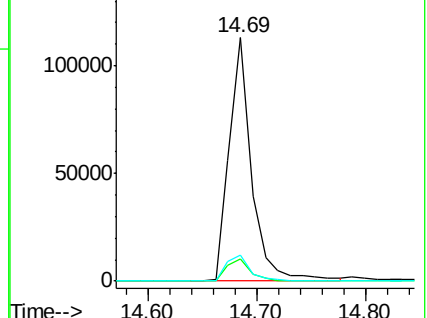
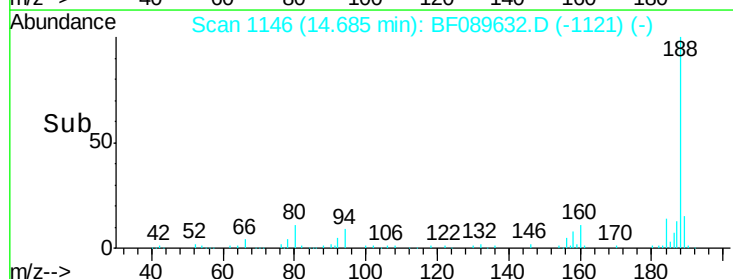
80 10.7 8.0 12.0



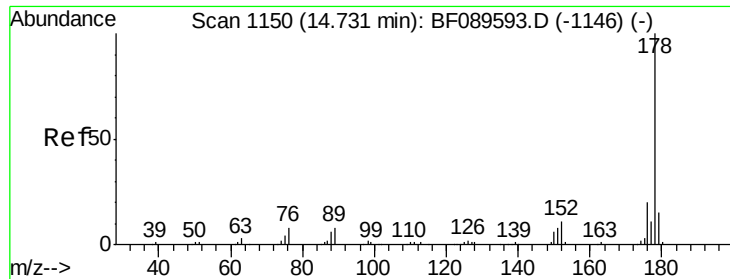
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



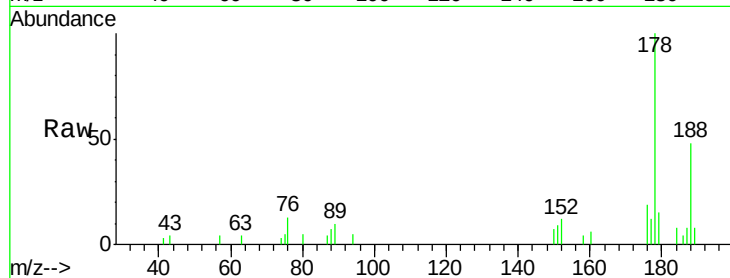




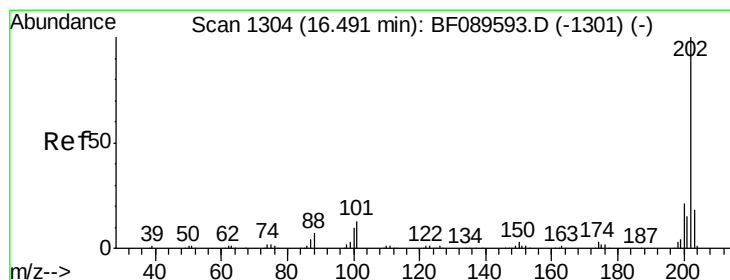
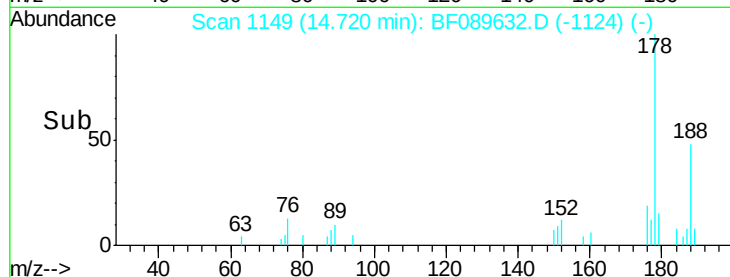
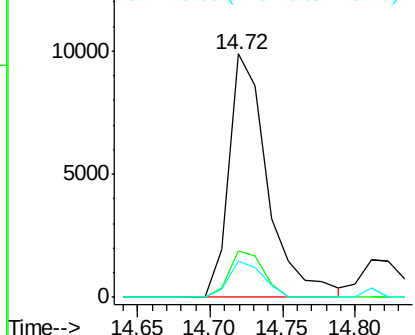
#70  
Phenanthrene  
Concen: 2.09 ng  
RT: 14.72 min Scan# 1149  
Delta R.T. -0.01 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Instrument :  
BNA\_F  
ClientSampleId :  
SS8-0-2IN

Tgt Ion:178 Resp: 18325  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.7 23.5  
179 14.9 12.2 18.2

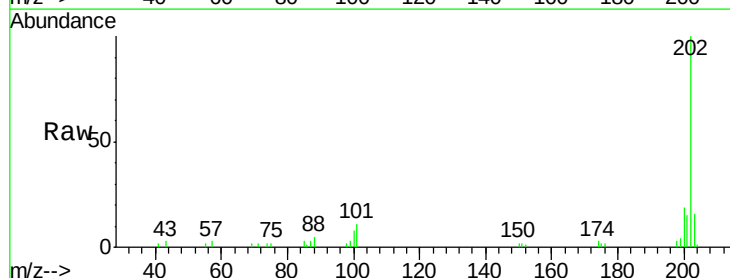


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

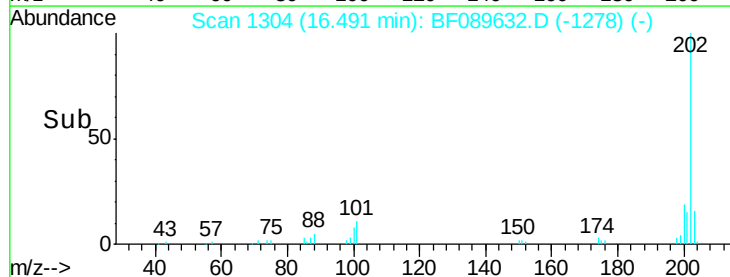
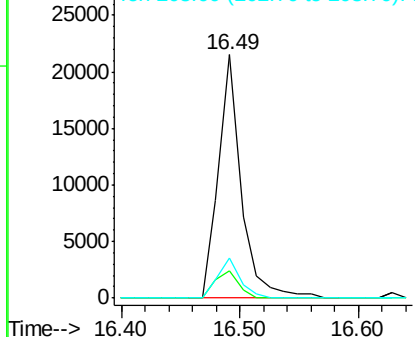


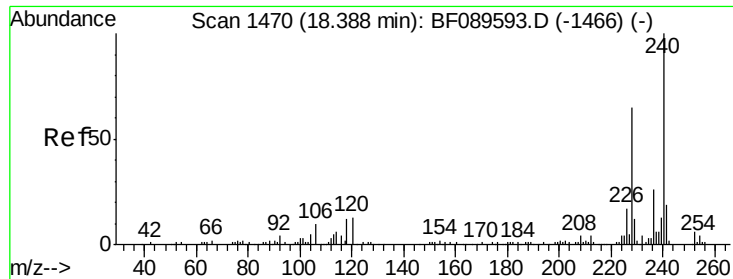
#74  
Fluoranthene  
Concen: 3.17 ng  
RT: 16.49 min Scan# 1304  
Delta R.T. 0.00 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Tgt Ion:202 Resp: 28552  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 32.7  
203 16.3 0.0 37.8



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

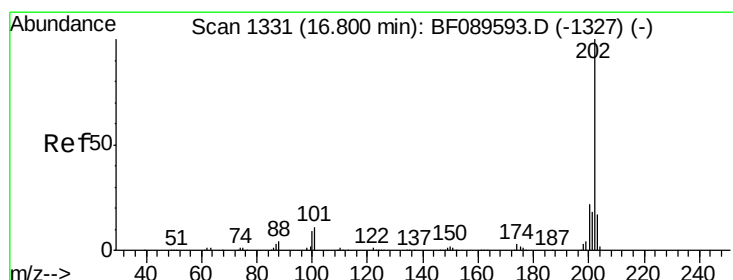
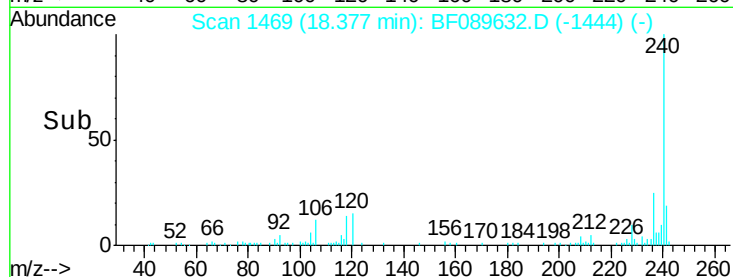
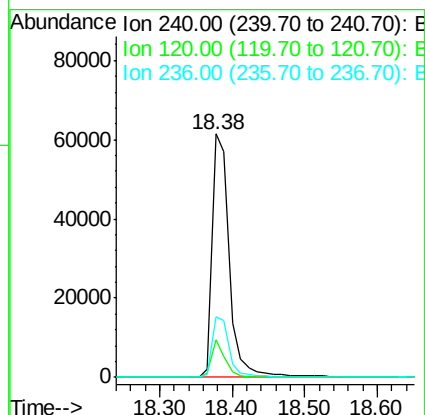
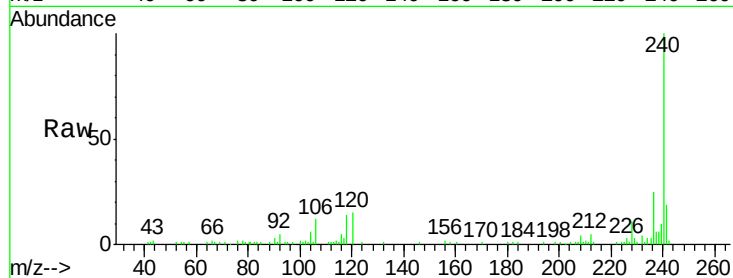




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.38 min Scan# 1469  
Delta R.T. -0.01 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

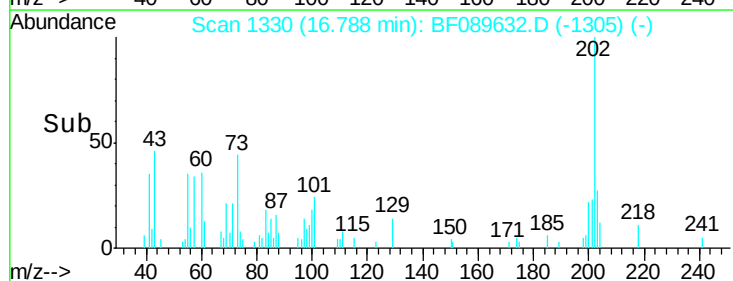
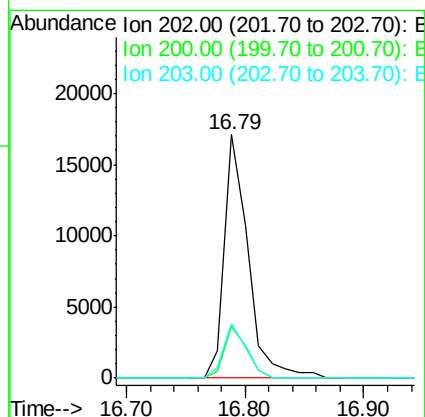
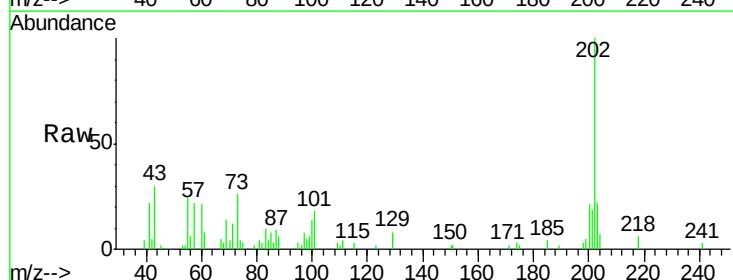
Instrument :  
BNA\_F  
ClientSampleId :  
SS8-0-2IN

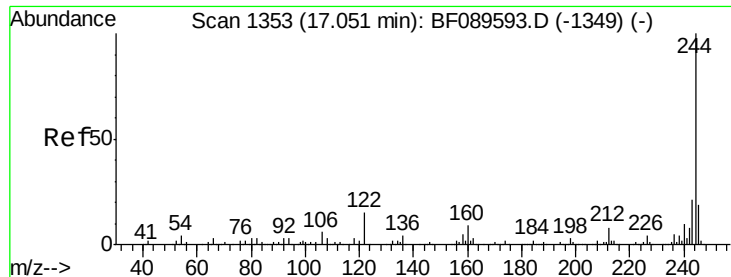
Tgt Ion:240 Resp: 101193  
Ion Ratio Lower Upper  
240 100  
120 15.5 10.6 15.8  
236 24.9 20.6 30.8



#77  
Pyrene  
Concen: 2.64 ng  
RT: 16.79 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Tgt Ion:202 Resp: 23656  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.4 26.0  
203 22.3 13.6 20.4#





#78

Terphenyl-d14

Concen: 72.17 ng

RT: 17.05 min Scan# 1353

Delta R.T. 0.00 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

Instrument :

BNA\_F

ClientSampleId :

SS8-0-2IN

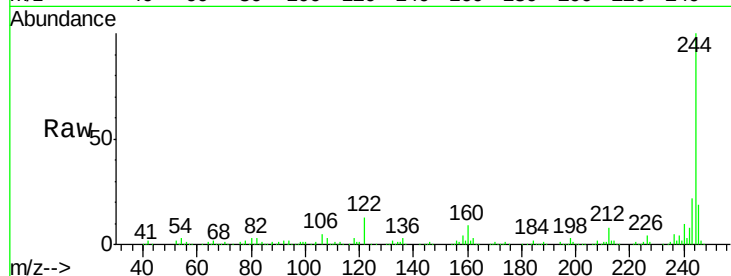
Tgt Ion:244 Resp: 369928

Ion Ratio Lower Upper

244 100

212 8.0 6.4 9.6

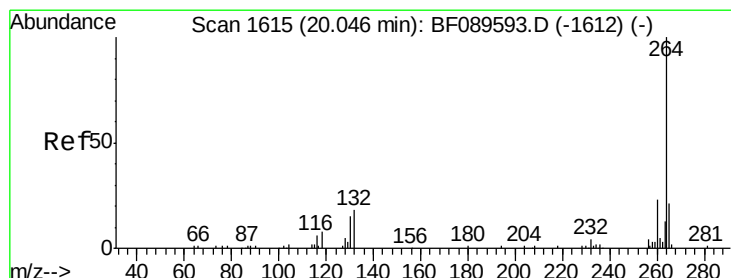
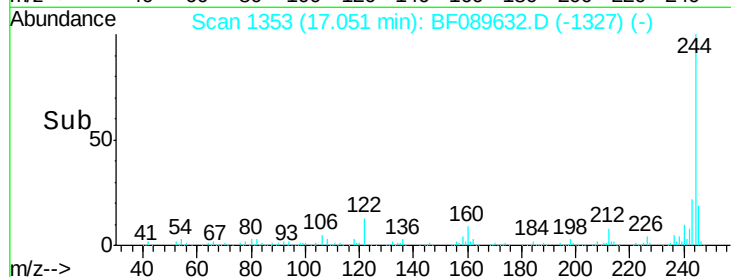
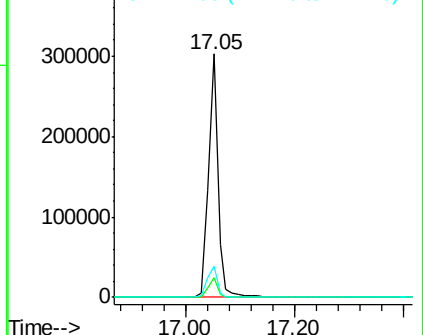
122 13.0 12.2 18.2



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.05 min Scan# 1615

Delta R.T. 0.00 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

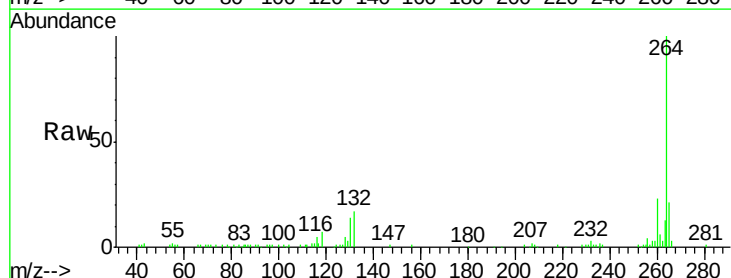
Tgt Ion:264 Resp: 99356

Ion Ratio Lower Upper

264 100

260 22.6 18.7 28.1

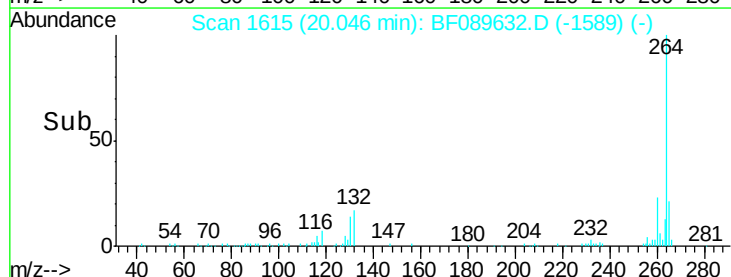
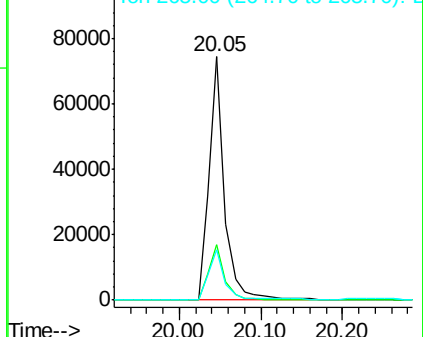
265 20.9 16.5 24.7

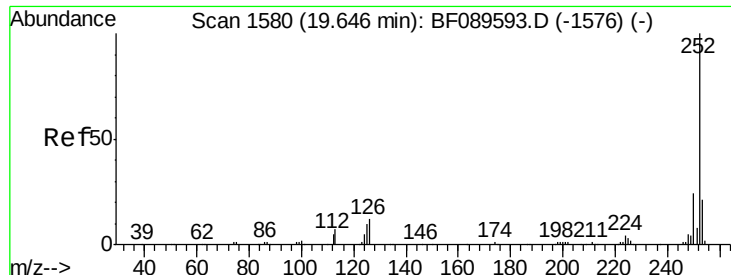


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

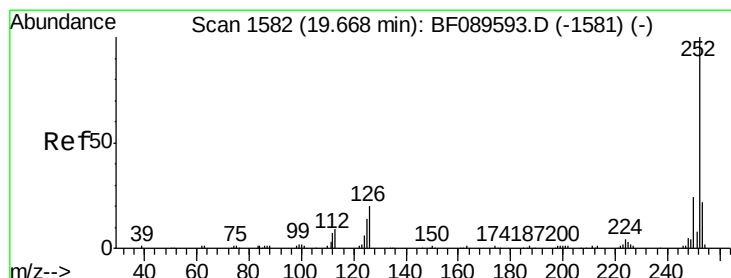
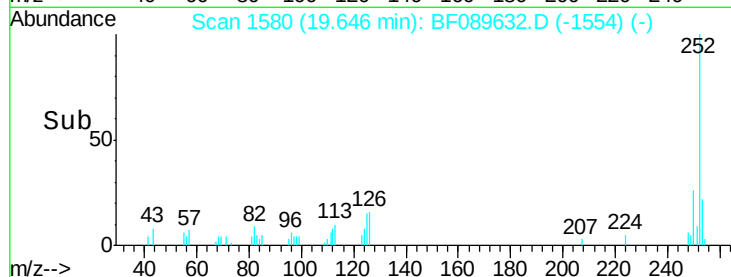
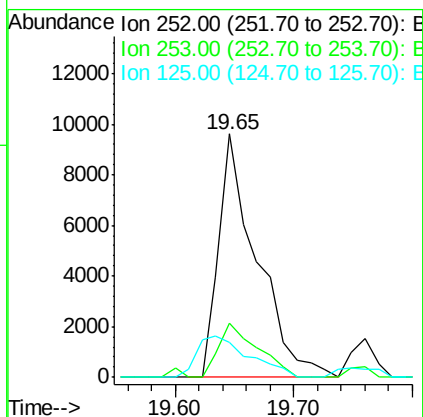
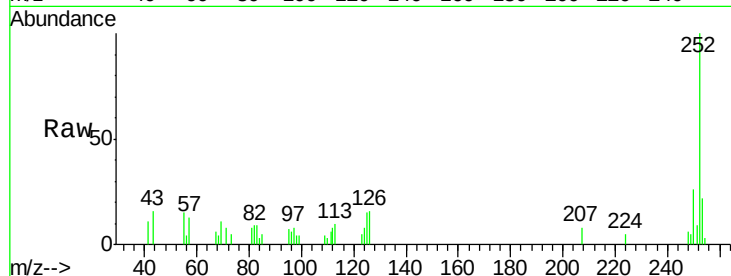




#87  
Benzo(b)fluoranthene  
Concen: 3.49 ng  
RT: 19.65 min Scan# 1580  
Delta R.T. 0.00 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

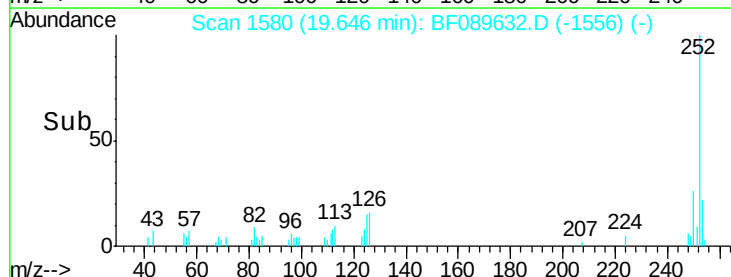
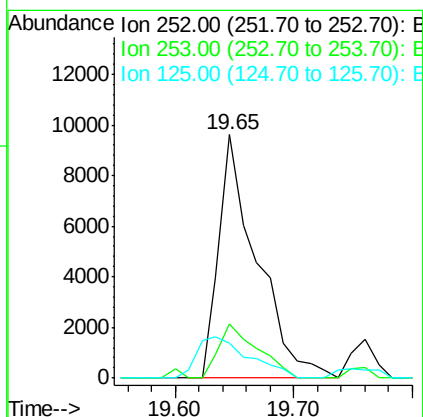
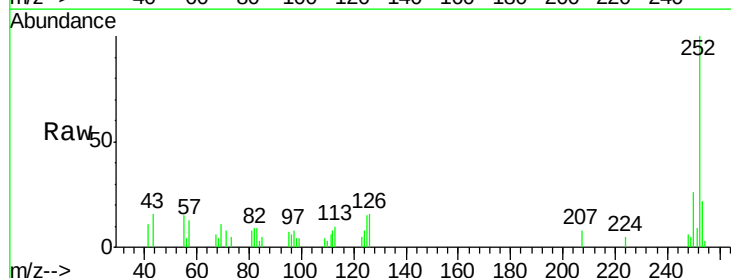
Instrument :  
BNA\_F  
ClientSampleId :  
SS8-0-2IN

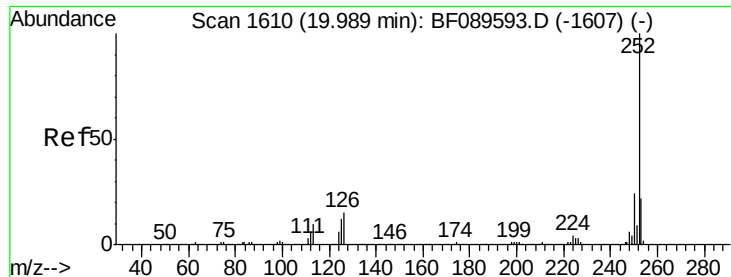
Tgt Ion: 252 Resp: 21331  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.1 25.7  
125 14.5 7.8 11.8#



#88  
Benzo(k)fluoranthene  
Concen: 3.46 ng  
RT: 19.65 min Scan# 1580  
Delta R.T. -0.02 min  
Lab File: BF089632.D  
Acq: 5 Aug 2016 16:02

Tgt Ion: 252 Resp: 21331  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.3 25.9  
125 14.5 11.0 16.6





#89

Benzo(a)pyrene

Concen: 2.20 ng

RT: 19.99 min Scan# 1610

Delta R.T. 0.00 min

Lab File: BF089632.D

Acq: 5 Aug 2016 16:02

Instrument :

BNA\_F

ClientSampleId :

SS8-0-2IN

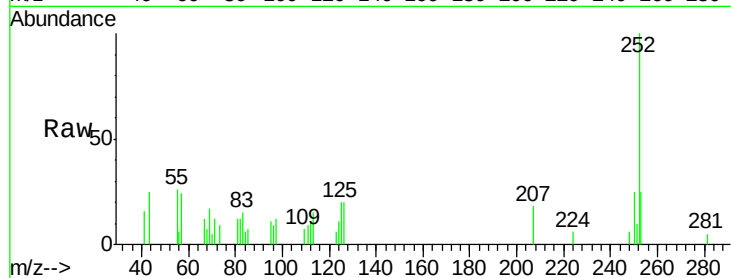
Tgt Ion:252 Resp: 12583

Ion Ratio Lower Upper

252 100

253 25.0 17.4 26.0

125 20.0 9.9 14.9#



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

