

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100615\  
 Data File : BF082087.D  
 Acq On : 6 Oct 2015 16:38  
 Operator : UM/IZ  
 Sample : G3828-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OGS-SSCF-PH-FL-1-3-3.5

Quant Time: Oct 07 02:04:55 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 07 02:00:35 2015  
 Response via : Initial Calibration

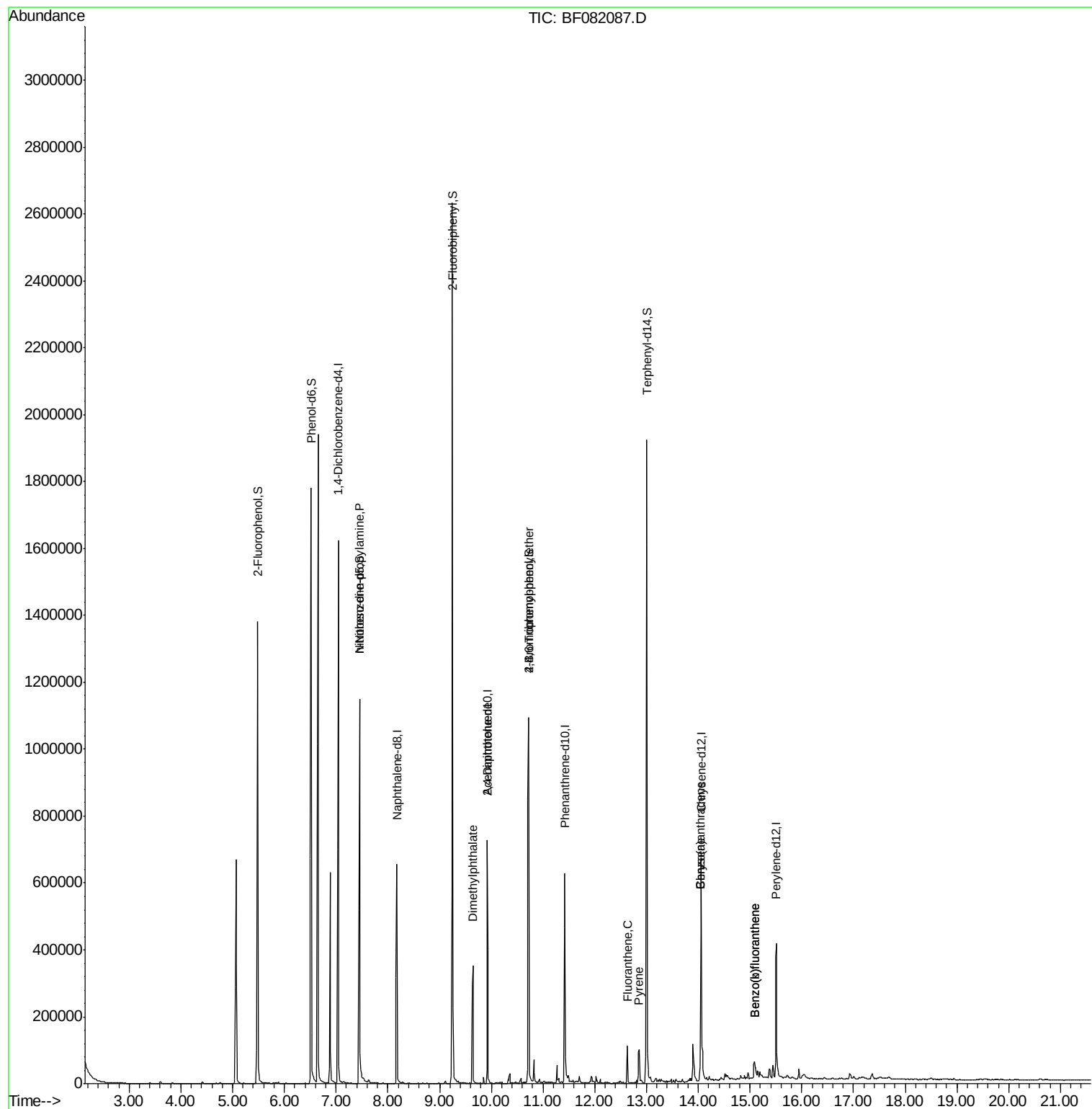
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.04  | 152  | 296210   | 20.00     | ng    | 0.16     |
| 21) Naphthalene-d8             | 8.17  | 136  | 385203   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.92  | 164  | 181220   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.42 | 188  | 360682   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.06 | 240  | 325428   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.51 | 264  | 253384   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 567351   | 34.77     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.51  | 99   | 696952   | 33.94     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 473096   | 81.87     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.72 | 330  | 205711   | 112.08    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.25  | 172  | 855910   | 77.73     | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.01 | 244  | 942442   | 97.43     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 61366    | 4.92      | ng    | # 56     |
| 49) Dimethylphthalate          | 9.65  | 163  | 230456   | 18.42     | ng    | # 97     |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 22604    | 6.53      | ng    | # 34     |
| 57) Fluorene                   | 10.47 | 166  | 1421     | Below Cal | #     | 91       |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 12563    | 3.45      | ng    | # 1      |
| 73) Di-n-butylphthalate        | 11.97 | 149  | 4876     | Below Cal | #     | 93       |
| 74) Fluoranthene               | 12.63 | 202  | 78624    | 4.07      | ng    | 86       |
| 77) Pyrene                     | 12.86 | 202  | 67826    | 3.49      | ng    | 98       |
| 80) Benzo(a)anthracene         | 14.05 | 228  | 42650    | 2.43      | ng    | 92       |
| 82) Chrysene                   | 14.05 | 228  | 42650    | 2.73      | ng    | 94       |
| 87) Benzo(b)fluoranthene       | 15.09 | 252  | 51400    | 3.55      | ng    | # 88     |
| 88) Benzo(k)fluoranthene       | 15.09 | 252  | 51400    | 3.88      | ng    | # 88     |

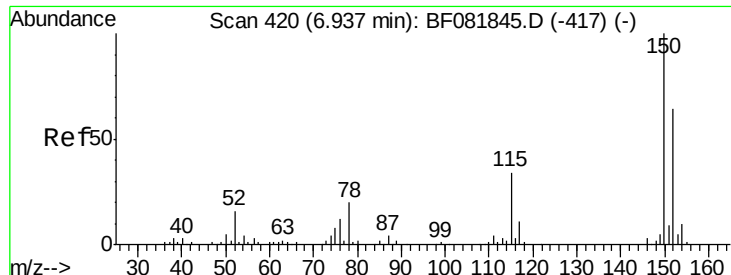
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 12 Sample Multiplier: 1

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OGS-SSCF-PH-FL-1-3-3.5

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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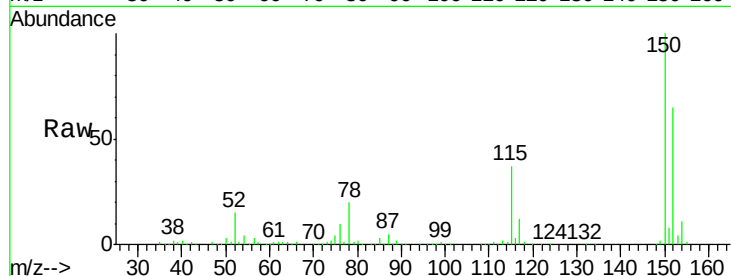


#1

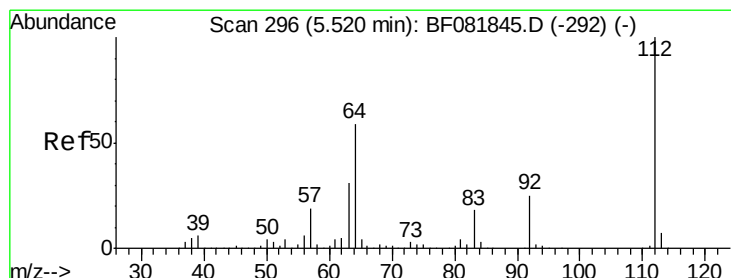
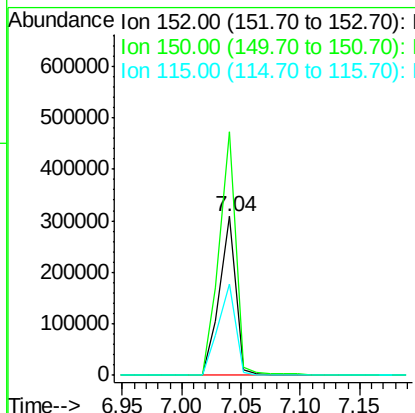
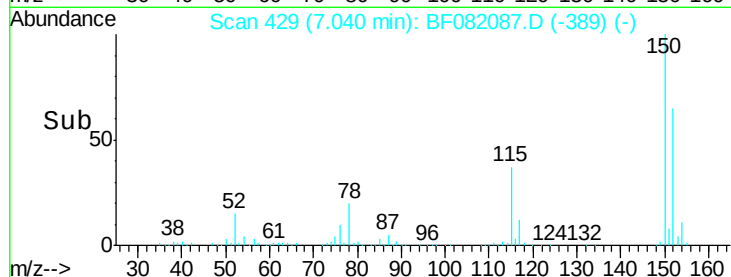
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.04 min Scan# 429  
Delta R.T. 0.16 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

Instrument :  
BNA\_F  
ClientSampleId :  
OGS-SSCF-PH-FL-1-3-3.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.1 | 124.7 | 187.1 |
| 115     | 57.0  | 39.0  | 58.4  |



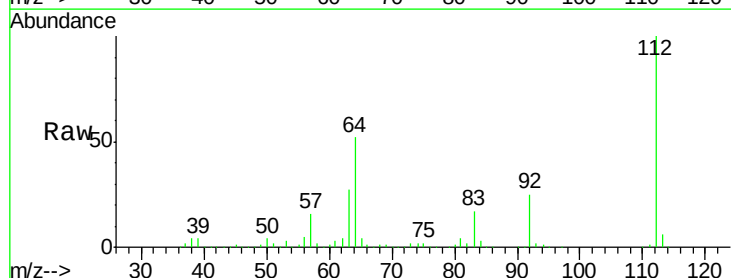
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



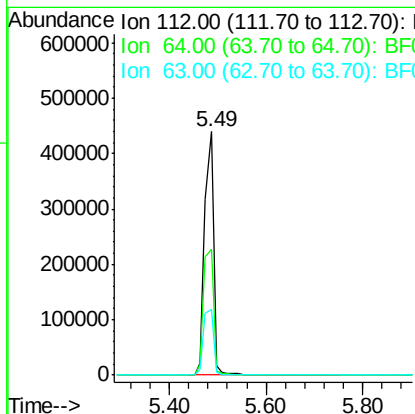
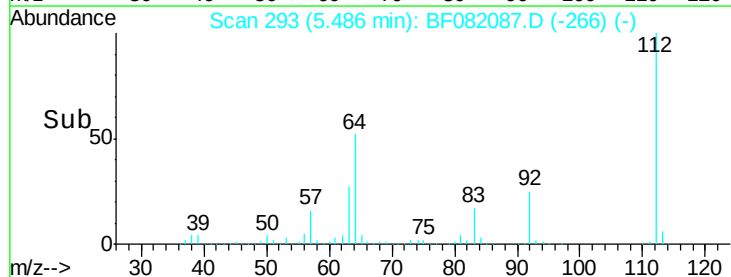
#5

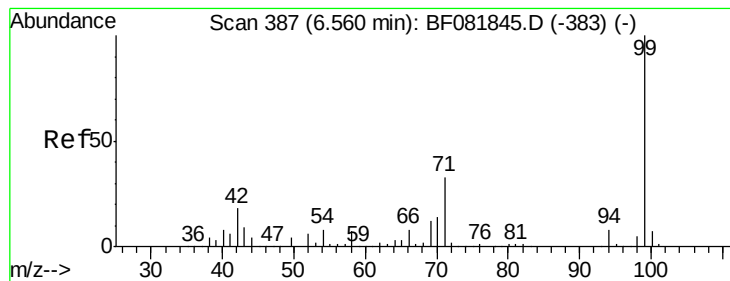
2-Fluorophenol  
Concen: 34.77 ng  
RT: 5.49 min Scan# 293  
Delta R.T. 0.01 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.8  | 39.7  | 59.5  |
| 63      | 27.0  | 17.4  | 26.0  |



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: 33.94 ng

RT: 6.51 min Scan# 383

Delta R.T. -0.00 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

Instrument :

BNA\_F

ClientSampleId :

OGS-SSCF-PH-FL-1-3-3.5

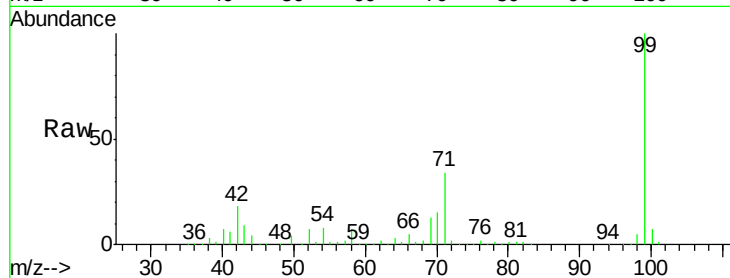
Tot Ion: 99 Resp: 696952

Ion Ratio Lower Upper

99 100

42 17.9 13.7 20.5

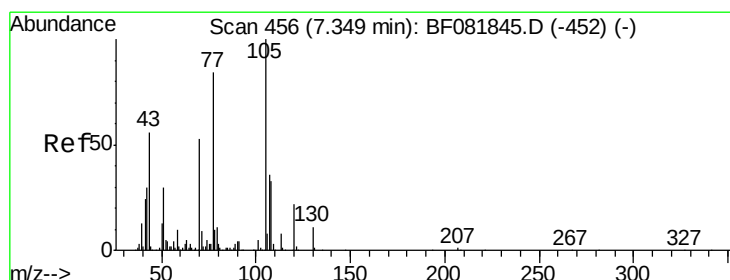
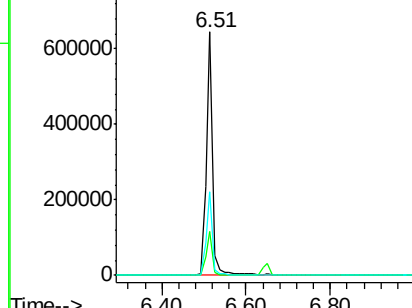
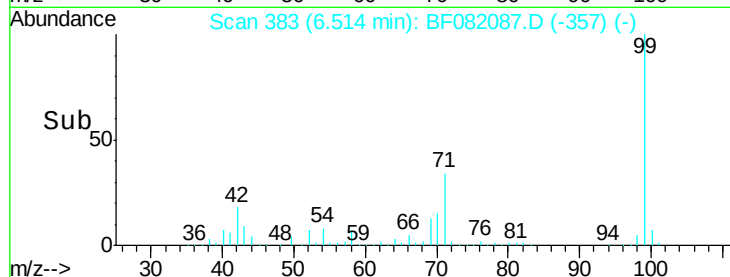
71 34.4 14.2 21.2#



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



#19

n-Nitroso-di-n-propylamine

Concen: 4.92 ng

RT: 7.45 min Scan# 465

Delta R.T. 0.15 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

Tgt Ion: 70 Resp: 61366

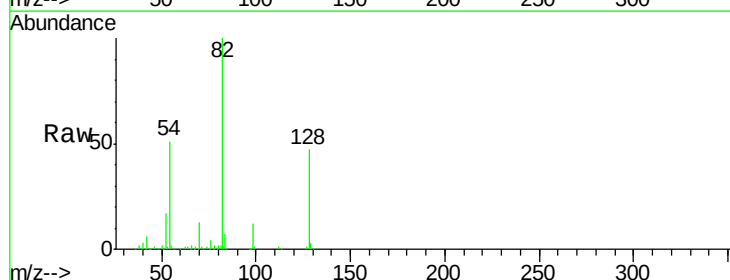
Ion Ratio Lower Upper

70 100

42 43.6 63.8 95.6#

101 0.0 9.2 13.8#

130 2.3 27.3 40.9#

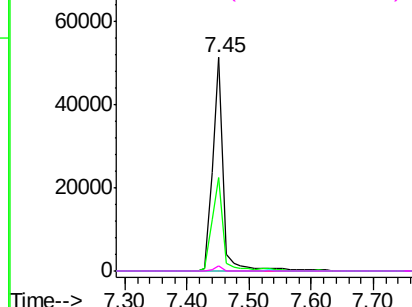
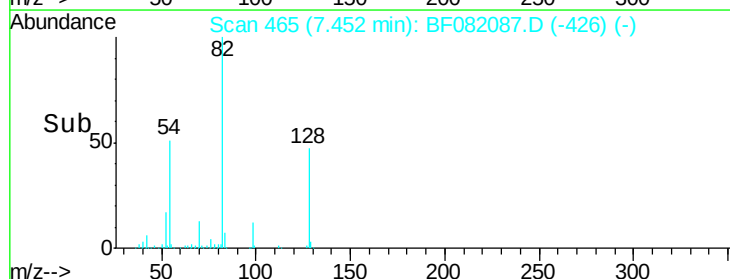


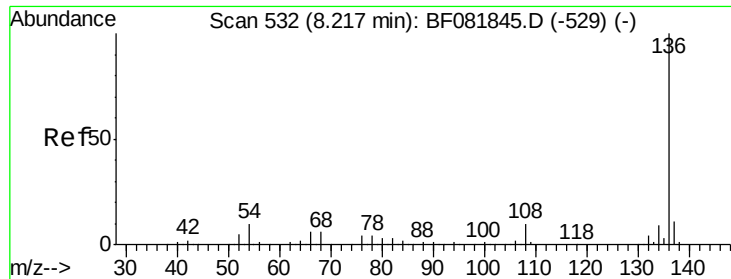
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

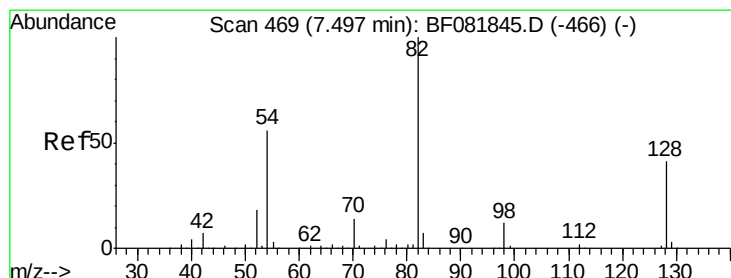
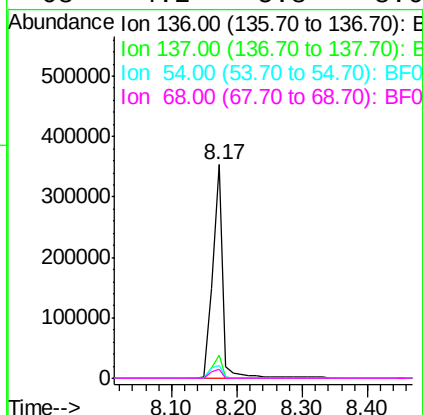
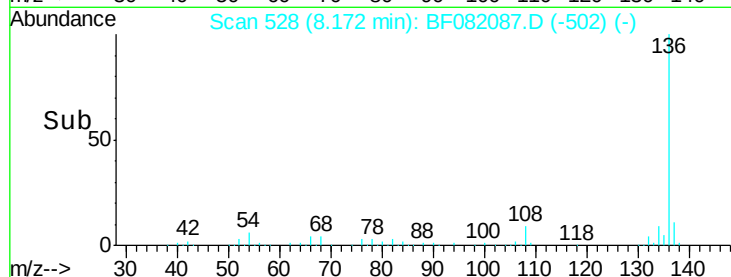
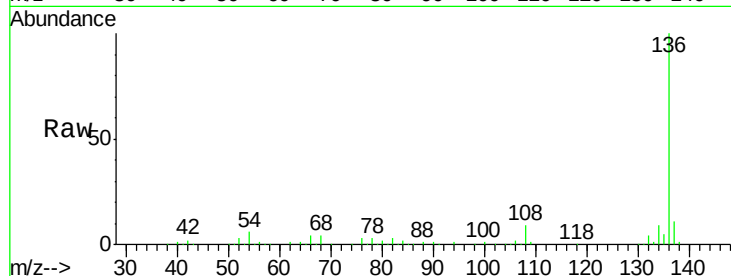




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.17 min Scan# 528  
Delta R.T. -0.00 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

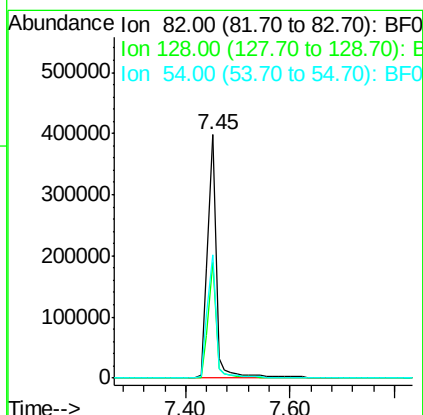
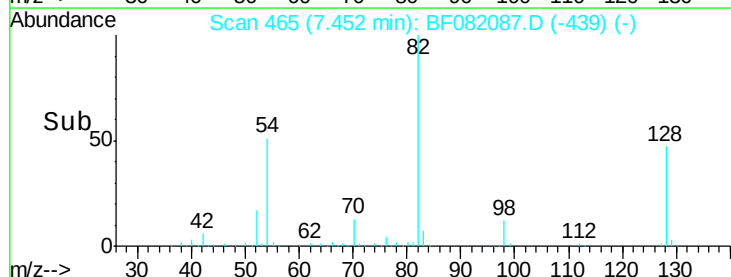
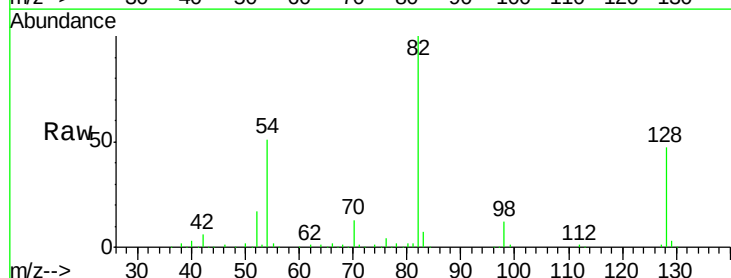
Instrument :  
BNA\_F  
ClientSampleId :  
OGS-SSCF-PH-FL-1-3-3.5

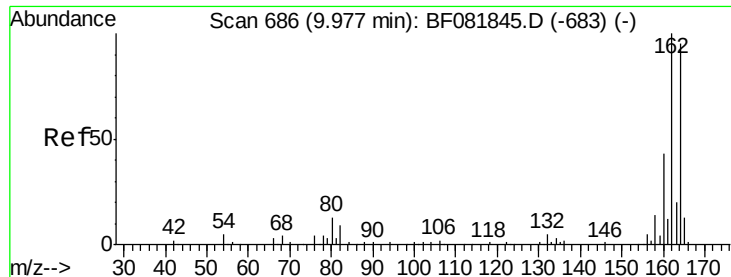
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 385203    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.6  | 9.0 13.6  |
| 54          | 6.0   | 8.2 12.2# |
| 68          | 4.2   | 5.8 8.6#  |



#23  
Nitrobenzene-d5  
Concen: 81.87 ng  
RT: 7.45 min Scan# 465  
Delta R.T. -0.00 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 473096     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 47.3  | 51.0 76.6# |
| 54          | 50.7  | 47.5 71.3  |

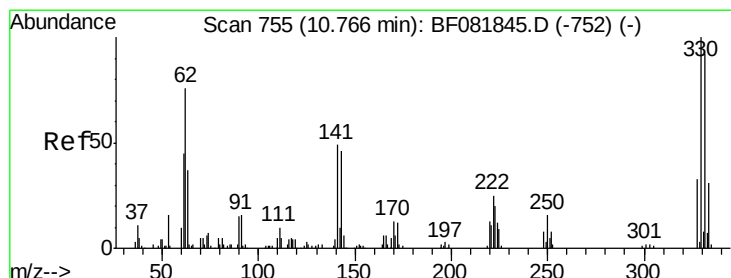
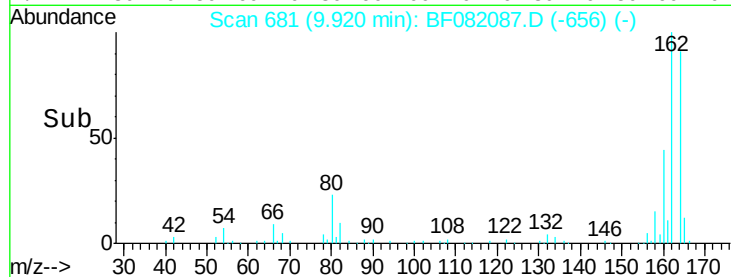
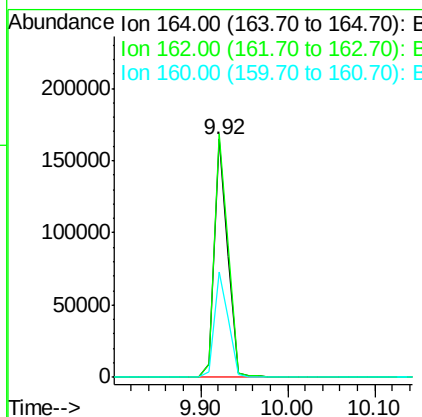
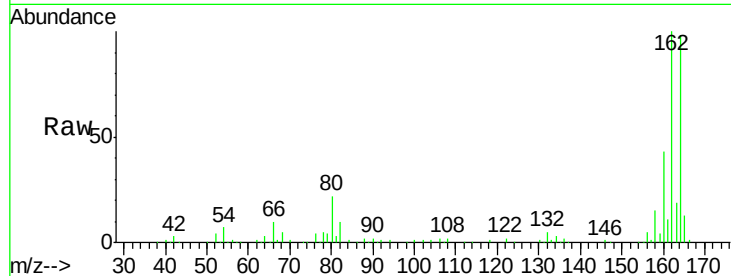




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.92 min Scan# 681  
 Delta R.T. -0.01 min  
 Lab File: BF082087.D  
 Acq: 6 Oct 2015 16:38

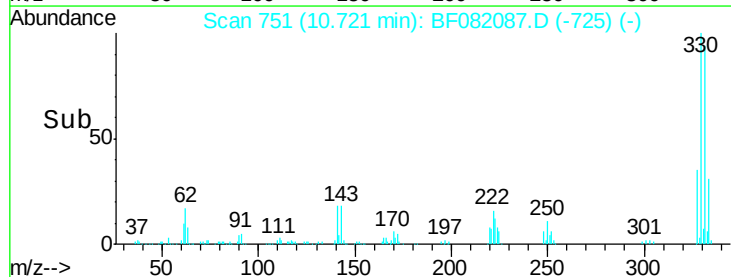
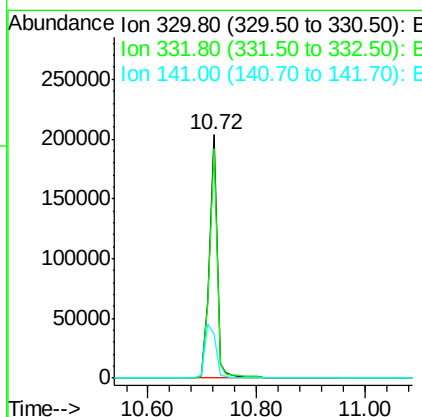
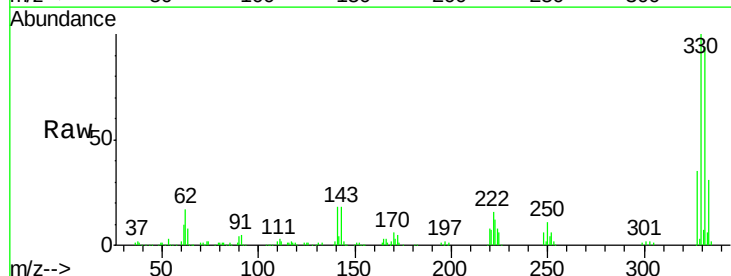
Instrument :  
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 OGS-SSCF-PH-FL-1-3-3.5

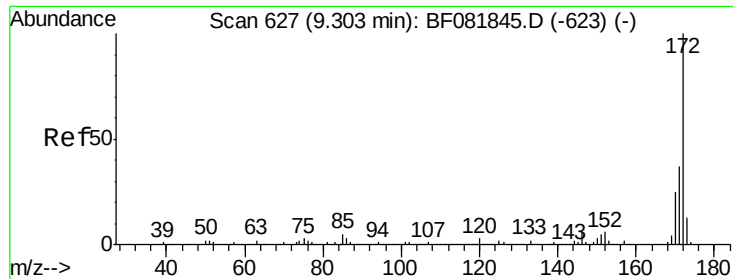
Tot Ion:164 Resp: 181220  
 Ion Ratio Lower Upper  
 164 100  
 162 102.3 75.2 112.8  
 160 44.4 31.5 47.3



#41  
 2,4,6-Tribromophenol  
 Concen: 112.08 ng  
 RT: 10.72 min Scan# 751  
 Delta R.T. -0.00 min  
 Lab File: BF082087.D  
 Acq: 6 Oct 2015 16:38

Tgt Ion:330 Resp: 205711  
 Ion Ratio Lower Upper  
 330 100  
 332 94.5 76.6 114.8  
 141 30.4 29.7 44.5



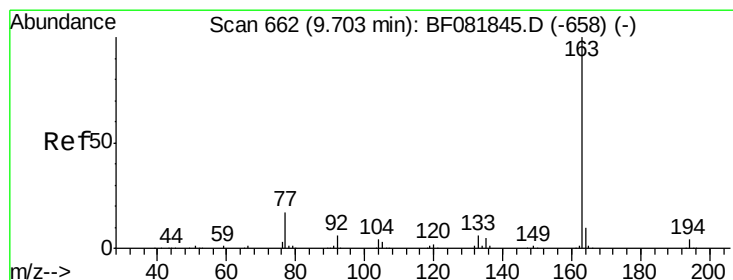
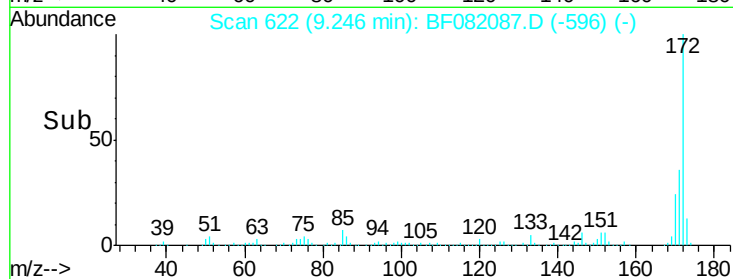
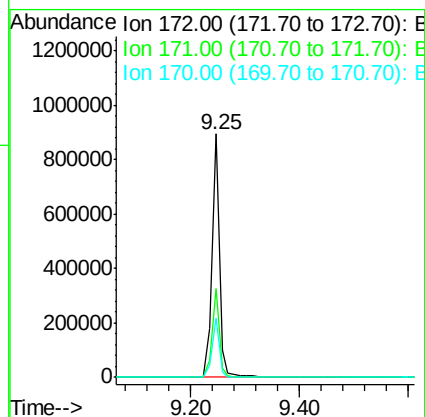
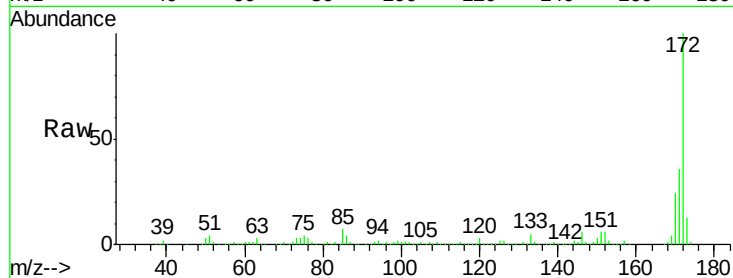


#44  
 2-Fluorobiphenyl  
 Concen: 77.73 ng  
 RT: 9.25 min Scan# 622  
 Delta R.T. -0.00 min  
 Lab File: BF082087.D  
 Acq: 6 Oct 2015 16:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OGS-SSCF-PH-FL-1-3-3.5

Tot Ion:172 Resp: 855910  

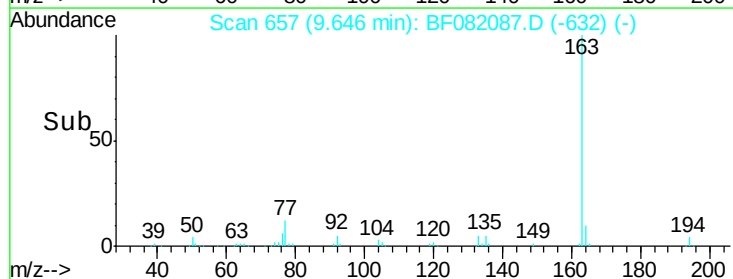
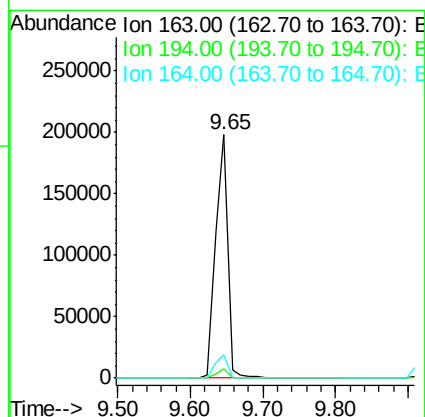
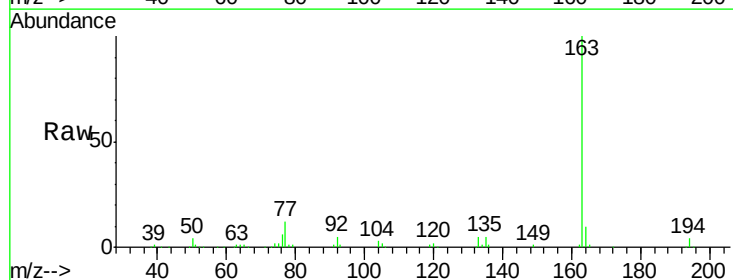
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.2  | 26.1  | 39.1  |
| 170 | 24.5  | 17.4  | 26.2  |

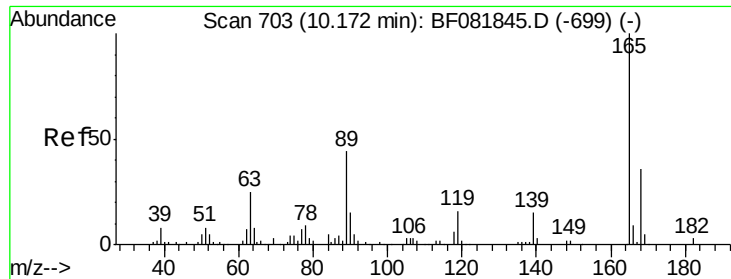


#49  
 Dimethylphthalate  
 Concen: 18.42 ng  
 RT: 9.65 min Scan# 657  
 Delta R.T. -0.01 min  
 Lab File: BF082087.D  
 Acq: 6 Oct 2015 16:38

Tgt Ion:163 Resp: 230456  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 4.0   | 4.4   | 6.6#  |
| 164 | 9.6   | 8.3   | 12.5  |

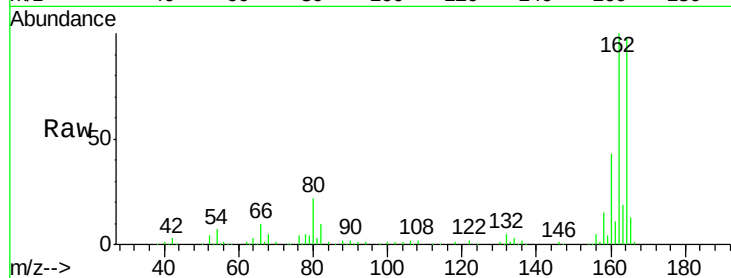




#56  
2,4-Dinitrotoluene  
Concen: 6.53 ng  
RT: 9.92 min Scan# 681  
Delta R.T. -0.21 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

Instrument :  
BNA\_F  
ClientSampleId :  
OGS-SSCF-PH-FL-1-3-3.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 29.8  | 44.6# |
| 89      | 1.4   | 44.5  | 66.7# |
| 182     | 0.0   | 3.0   | 4.4#  |

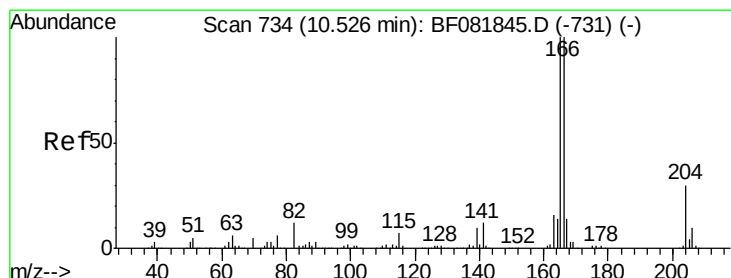
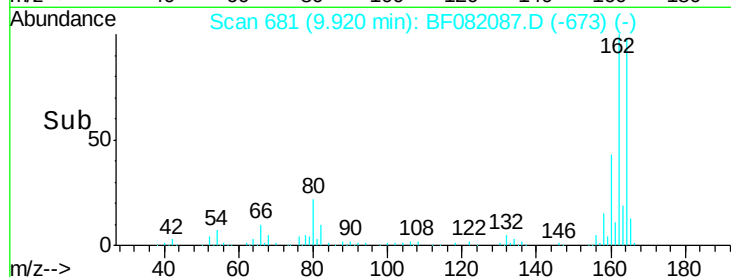
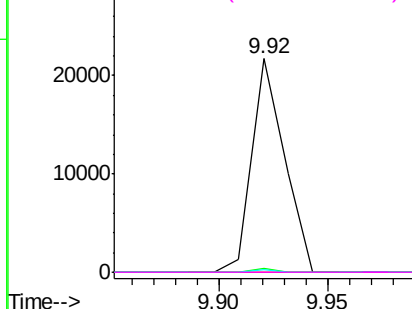


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

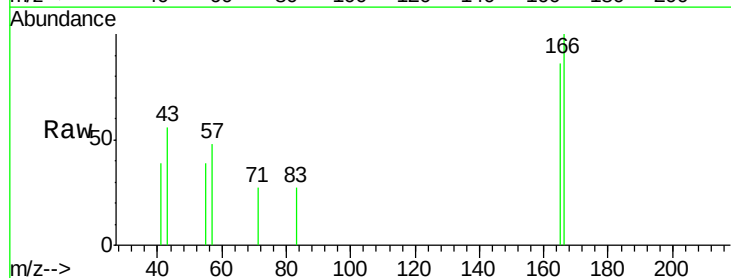
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57  
Fluorene  
Concen: Below Cal  
RT: 10.47 min Scan# 729  
Delta R.T. -0.01 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

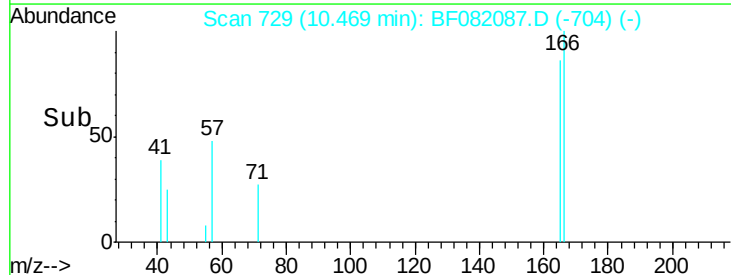
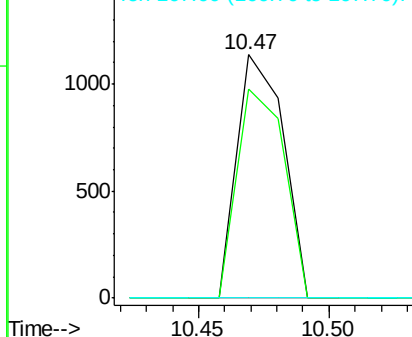
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 85.8  | 72.6  | 109.0 |
| 167     | 0.0   | 10.6  | 16.0# |



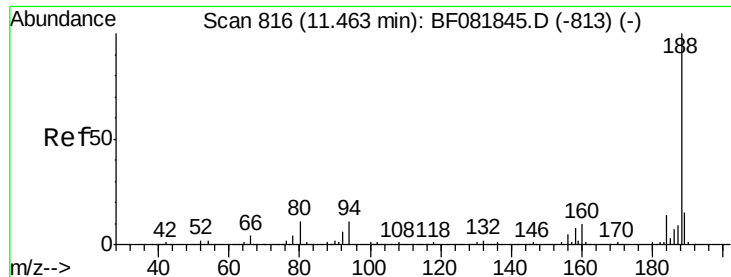
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



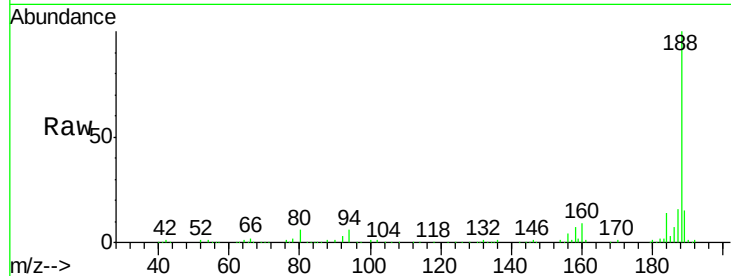




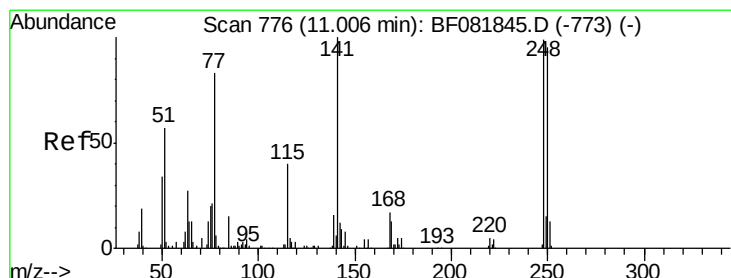
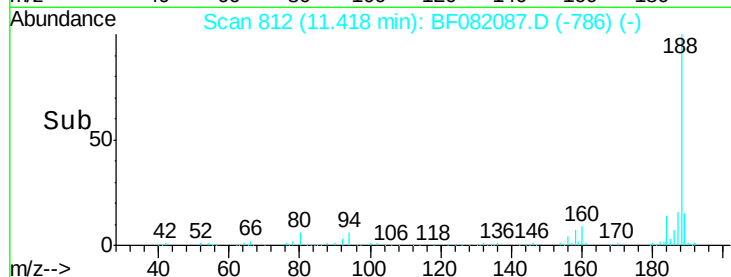
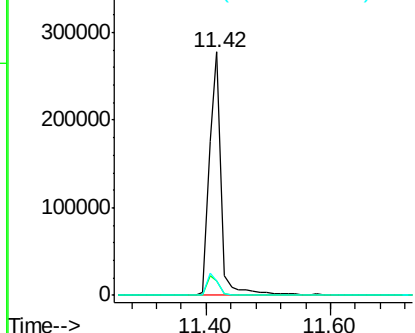
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.42 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

Instrument :  
BNA\_F  
ClientSampleId :  
OGS-SSCF-PH-FL-1-3-3.5

Tot Ion:188 Resp: 360682  
Ion Ratio Lower Upper  
188 100  
94 5.8 11.1 16.7#  
80 6.1 11.0 16.4#

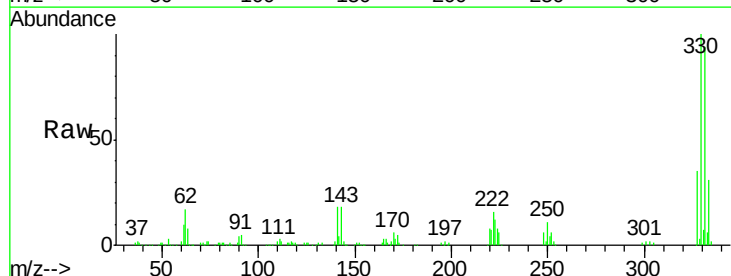


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

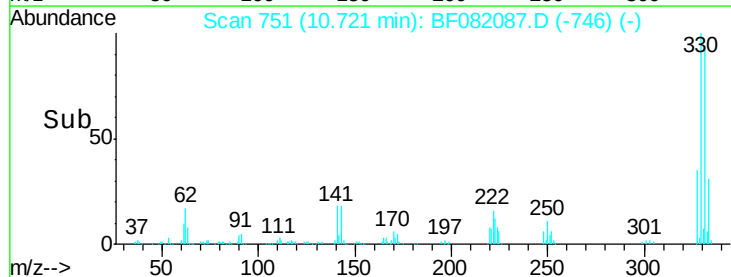
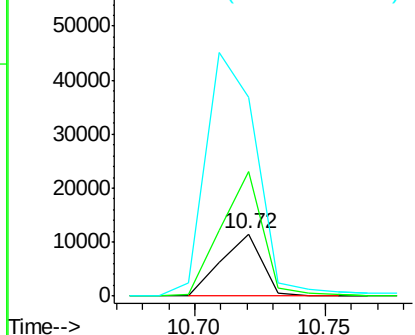


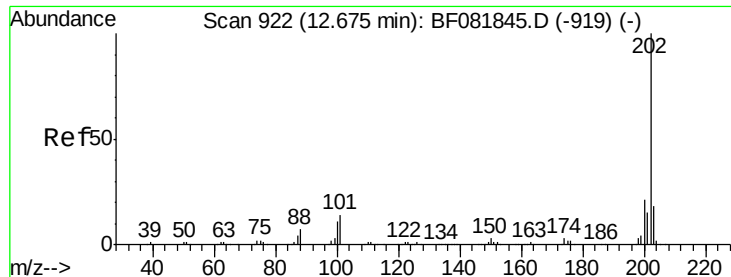
#66  
4-Bromophenyl-phenylether  
Concen: 3.45 ng  
RT: 10.72 min Scan# 751  
Delta R.T. -0.24 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

Tgt Ion:248 Resp: 12563  
Ion Ratio Lower Upper  
248 100  
250 200.3 78.5 117.7#  
141 317.9 59.0 88.6#



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





#74

Fluoranthene

Concen: 4.07 ng

RT: 12.63 min Scan# 918

Delta R.T. -0.00 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

Instrument :

BNA\_F

ClientSampleId :

OGS-SSCF-PH-FL-1-3-3.5

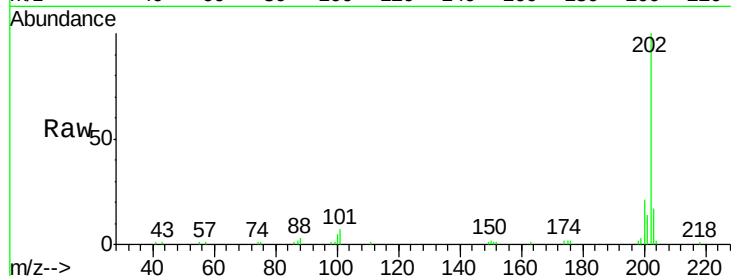
Tot Ion:202 Resp: 78624

Ion Ratio Lower Upper

202 100

101 6.8 0.0 38.3

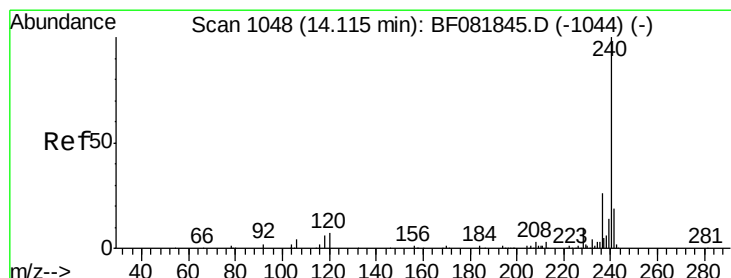
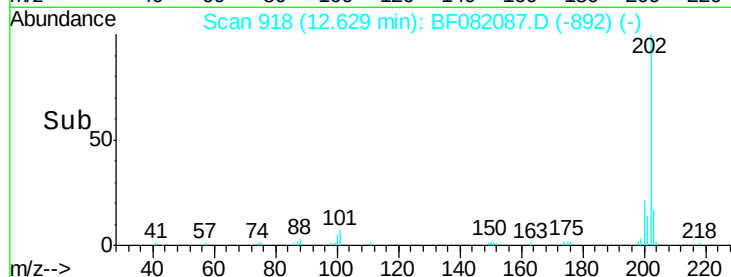
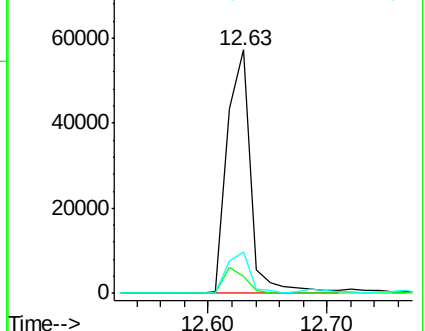
203 17.0 0.0 37.3



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: 14.06 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

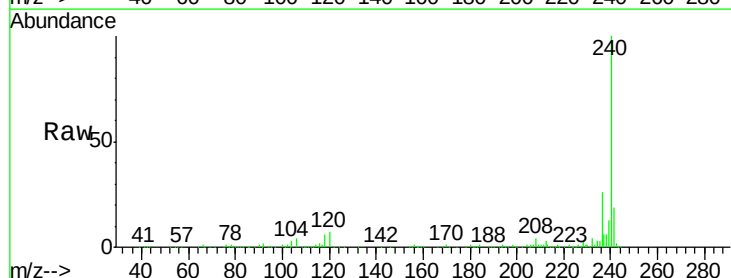
Tgt Ion:240 Resp: 325428

Ion Ratio Lower Upper

240 100

120 6.5 16.2 24.2#

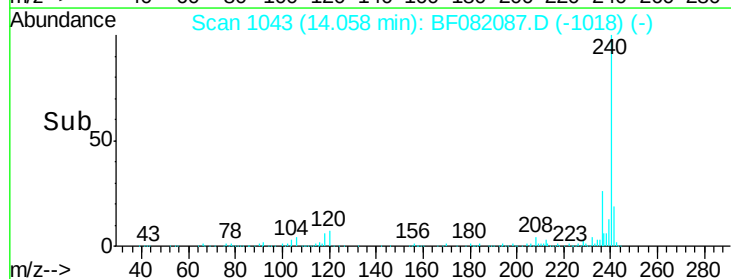
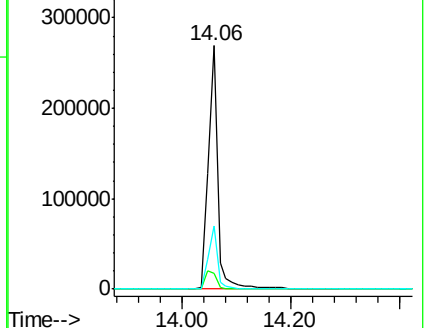
236 25.9 18.4 27.6

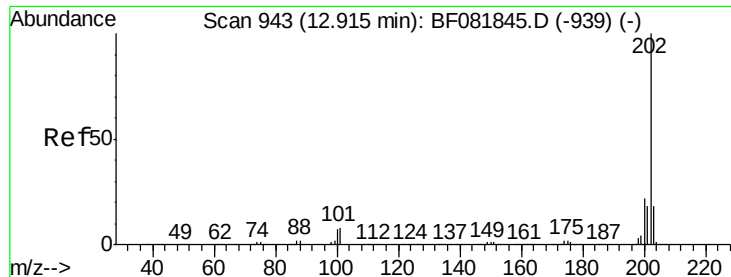


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 3.49 ng

RT: 12.86 min Scan# 938

Delta R.T. -0.00 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

Instrument :

BNA\_F

ClientSampleId :

OGS-SSCF-PH-FL-1-3-3.5

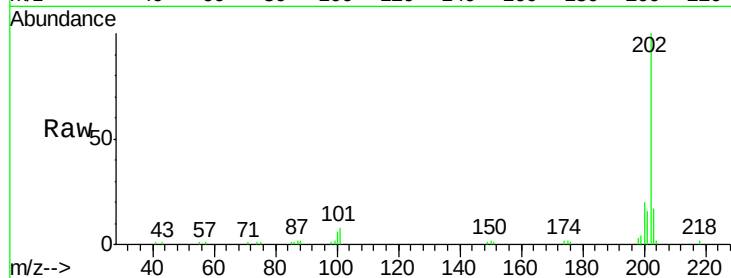
Tot Ion:202 Resp: 67826

Ion Ratio Lower Upper

202 100

200 20.0 15.0 22.4

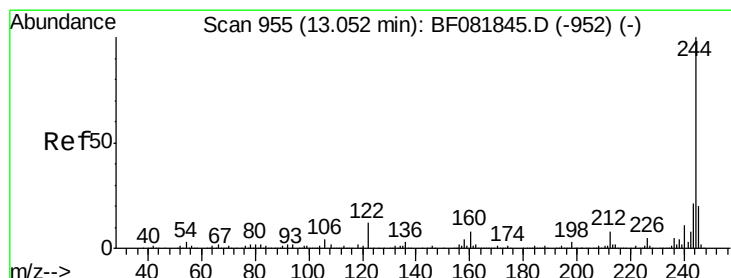
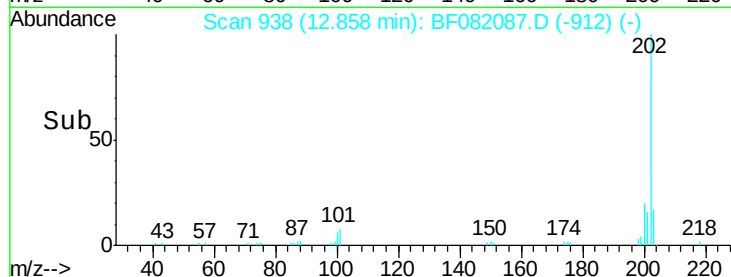
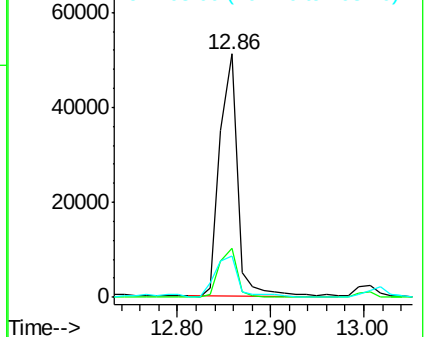
203 17.0 14.1 21.1



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



#78

Terphenyl-d14

Concen: 97.43 ng

RT: 13.01 min Scan# 951

Delta R.T. -0.00 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

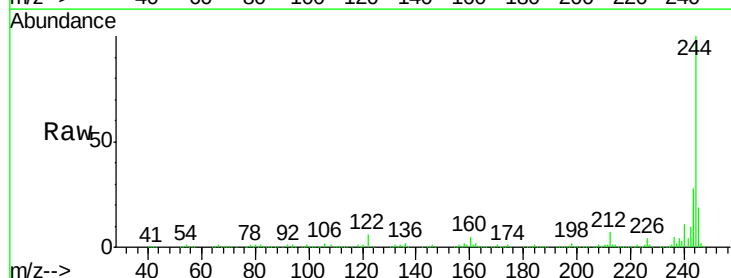
Tgt Ion:244 Resp: 942442

Ion Ratio Lower Upper

244 100

212 6.6 4.3 6.5#

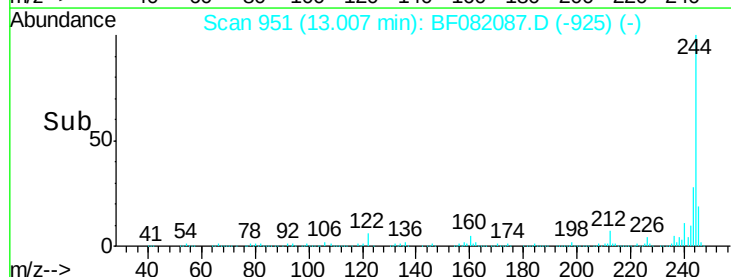
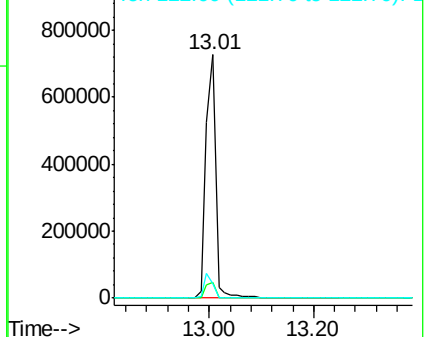
122 6.1 17.4 26.2#

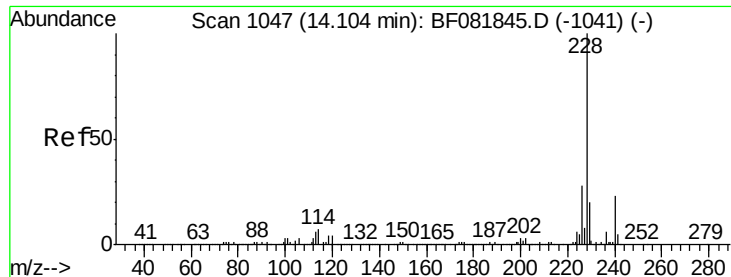


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.43 ng

RT: 14.05 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

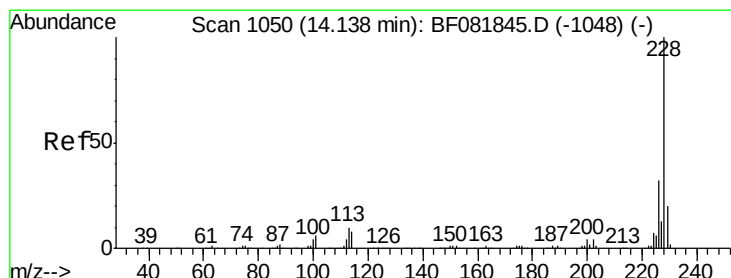
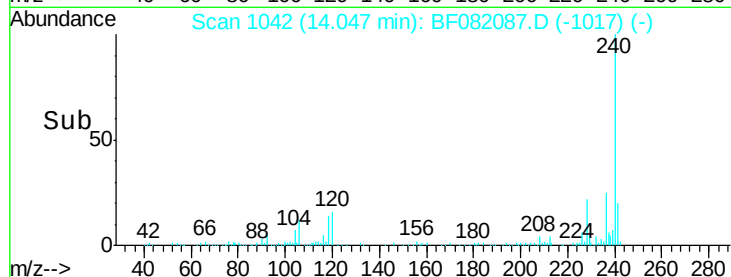
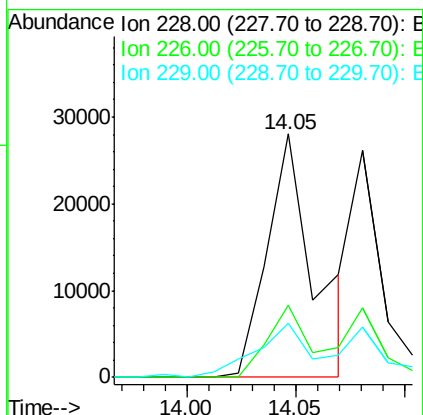
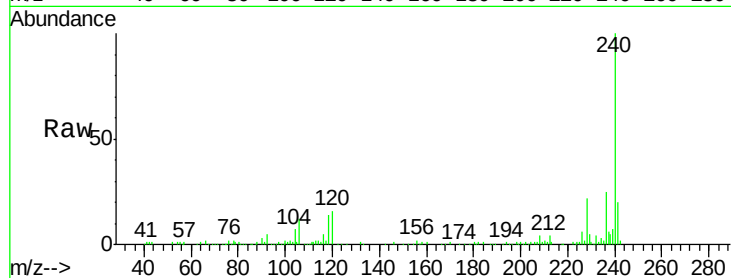
Instrument :

BNA\_F

ClientSampleId :

OGS-SSCF-PH-FL-1-3-3.5

|             |       |       |      |
|-------------|-------|-------|------|
| Tot Ion:228 | Resp: | 42650 |      |
| Ion Ratio   | Lower | Upper |      |
| 228         | 100   |       |      |
| 226         | 29.4  | 20.0  | 30.0 |
| 229         | 22.1  | 15.4  | 23.2 |



#82

Chrysene

Concen: 2.73 ng

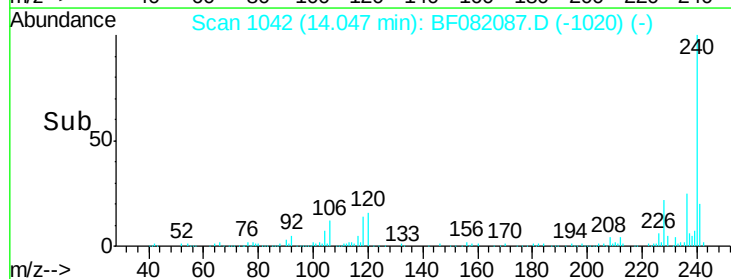
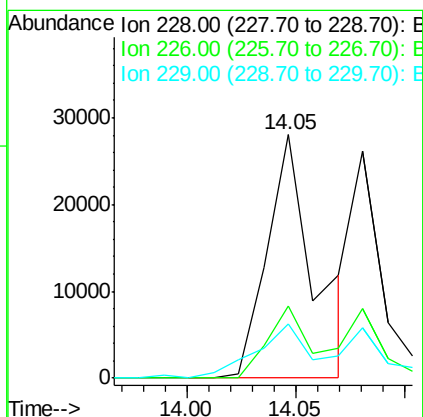
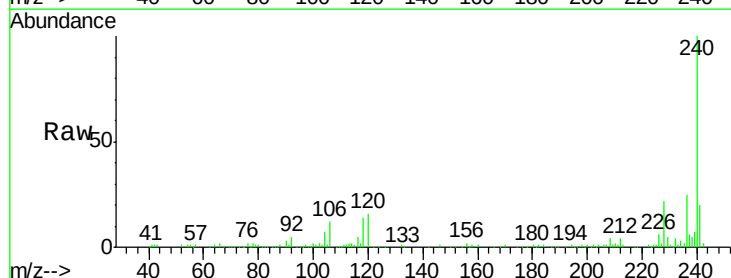
RT: 14.05 min Scan# 1042

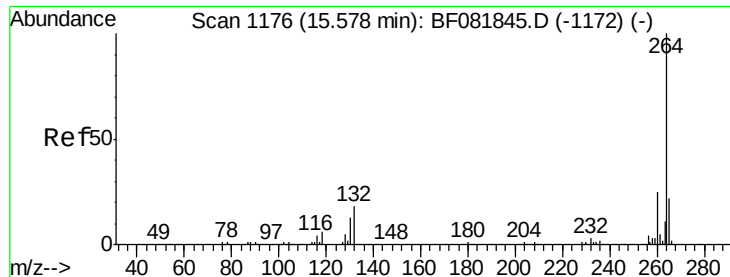
Delta R.T. -0.05 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:228 | Resp: | 42650 |
| Ion | Ratio   | Lower | Upper |
| 228 | 100     |       |       |
| 226 | 29.4    | 21.0  | 31.4  |
| 229 | 22.1    | 15.6  | 23.4  |

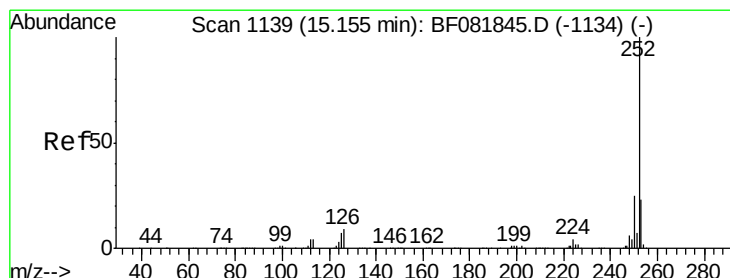
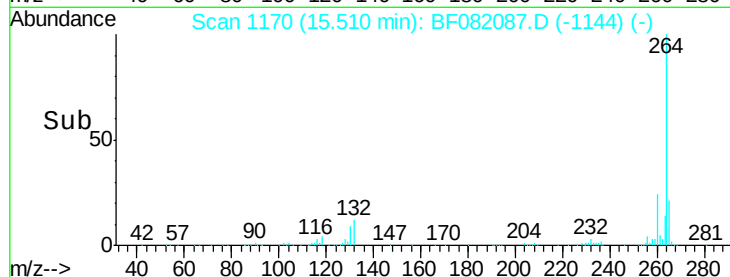
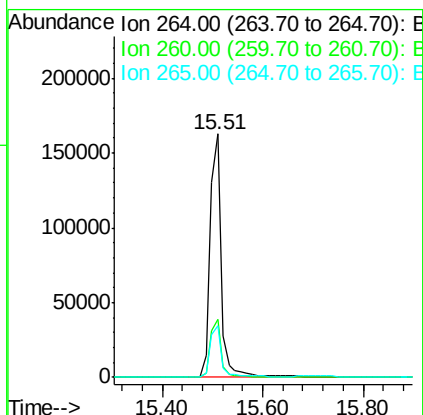
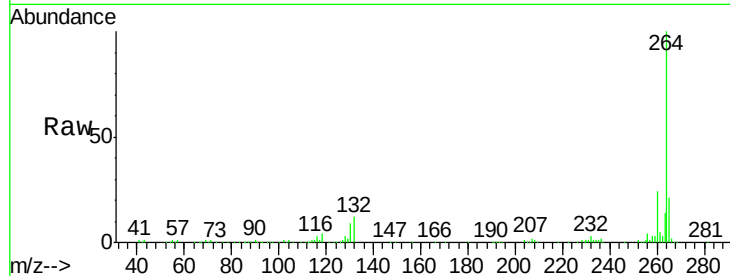




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.51 min Scan# 1170  
Delta R.T. -0.00 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

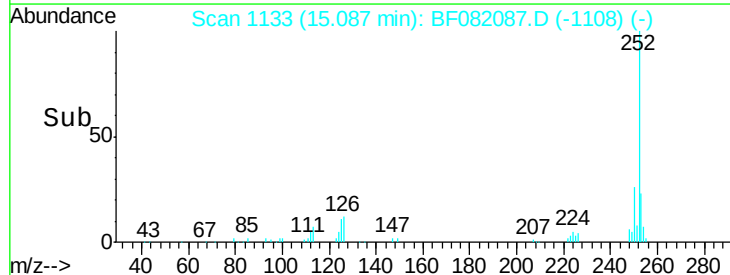
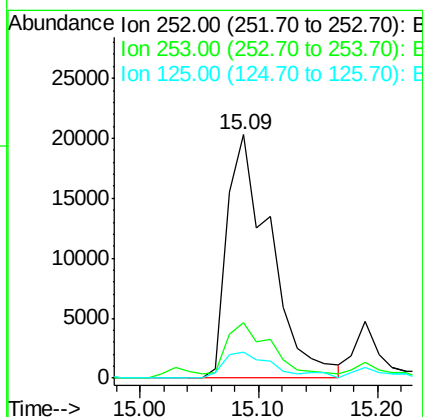
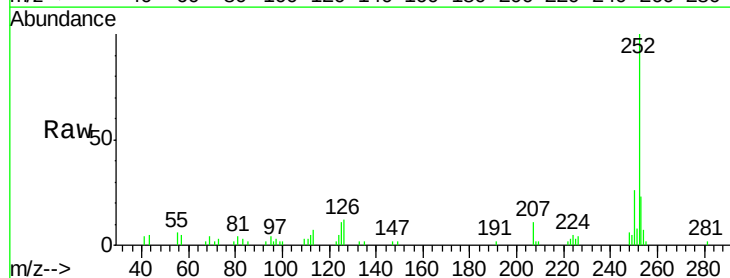
Instrument :  
BNA\_F  
ClientSampleId :  
OGS-SSCF-PH-FL-1-3-3.5

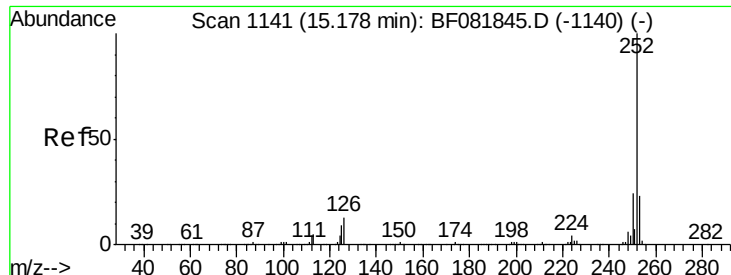
Tot Ion:264 Resp: 253384  
Ion Ratio Lower Upper  
264 100  
260 24.0 16.7 25.1  
265 21.0 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.55 ng  
RT: 15.09 min Scan# 1133  
Delta R.T. -0.01 min  
Lab File: BF082087.D  
Acq: 6 Oct 2015 16:38

Tgt Ion:252 Resp: 51400  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.5 26.3  
125 10.9 17.1 25.7#





#88

Benzo(k)fluoranthene

Concen: 3.88 ng

RT: 15.09 min Scan# 1133

Delta R.T. -0.03 min

Lab File: BF082087.D

Acq: 6 Oct 2015 16:38

Instrument :

BNA\_F

ClientSampleId :

OGS-SSCF-PH-FL-1-3-3.5

Tot Ion:252 Resp: 51400

Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.4

125 10.9 16.0 24.0#

