

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102816\  
 Data File : BF090901.D  
 Acq On : 28 Oct 2016 11:11  
 Operator : UM/SJ  
 Sample : H5423-05  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-3COMP(0-16FEET)

Manual Integrations  
 APPROVED

sohil  
 11/2/2016 5:40:16 PM

Quant Time: Nov 02 11:10:44 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 28 13:32:00 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.76  | 152  | 151227   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.04  | 136  | 612326   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.80  | 164  | 346601   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.29 | 188  | 497592   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.93 | 240  | 342363   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.33 | 264  | 335111   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.36  | 112  | 1474410  | 170.46 | ng    | 0.00     |
| 7) Phenol-d6                | 6.41  | 99   | 1729394  | 148.20 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 1286881  | 137.58 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.59 | 330  | 430566   | 120.88 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 1669184  | 84.57  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.88 | 244  | 1350324  | 99.37  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.42  | 94   | 180221   | 14.01  | ng    | 74       |
| 20) 3+4-Methylphenols       | 7.17  | 107  | 266902   | 28.40  | ng    | 84       |
| 31) Naphthalene             | 8.06  | 128  | 120002   | 4.19   | ng    | 98       |
| 49) Dimethylphthalate       | 9.53  | 163  | 755733   | 32.64  | ng    | # 98     |
| 51) Acenaphthene            | 9.84  | 154  | 71515    | 3.61   | ng    | 89       |
| 57) Fluorene                | 10.35 | 166  | 62180    | 2.97   | ng    | 90       |
| 70) Phenanthrene            | 11.31 | 178  | 536644   | 21.18  | ng    | 96       |
| 71) Anthracene              | 11.36 | 178  | 150336   | 5.63   | ng    | 98       |
| 72) Carbazole               | 11.52 | 167  | 54518    | 2.31   | ng    | # 89     |
| 74) Fluoranthene            | 12.50 | 202  | 716397   | 25.82  | ng    | 96       |
| 77) Pyrene                  | 12.73 | 202  | 655416   | 30.25  | ng    | 96       |
| 80) Benzo(a)anthracene      | 13.92 | 228  | 301192   | 16.58  | ng    | 93       |
| 82) Chrysene                | 13.95 | 228  | 268670m  | 14.62  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.68 | 276  | 141276m  | 8.67   | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.93 | 252  | 295415m  | 13.11  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.95 | 252  | 126710m  | 7.12   | ng    |          |
| 89) Benzo(a)pyrene          | 15.28 | 252  | 250127   | 12.92  | ng    | # 87     |
| 90) Dibenzo(a,h)anthracene  | 16.69 | 278  | 39629    | 2.42   | ng    | # 81     |
| 91) Benzo(a,h,i)perylene    | 17.08 | 276  | 147868   | 9.58   | ng    | # 85     |

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

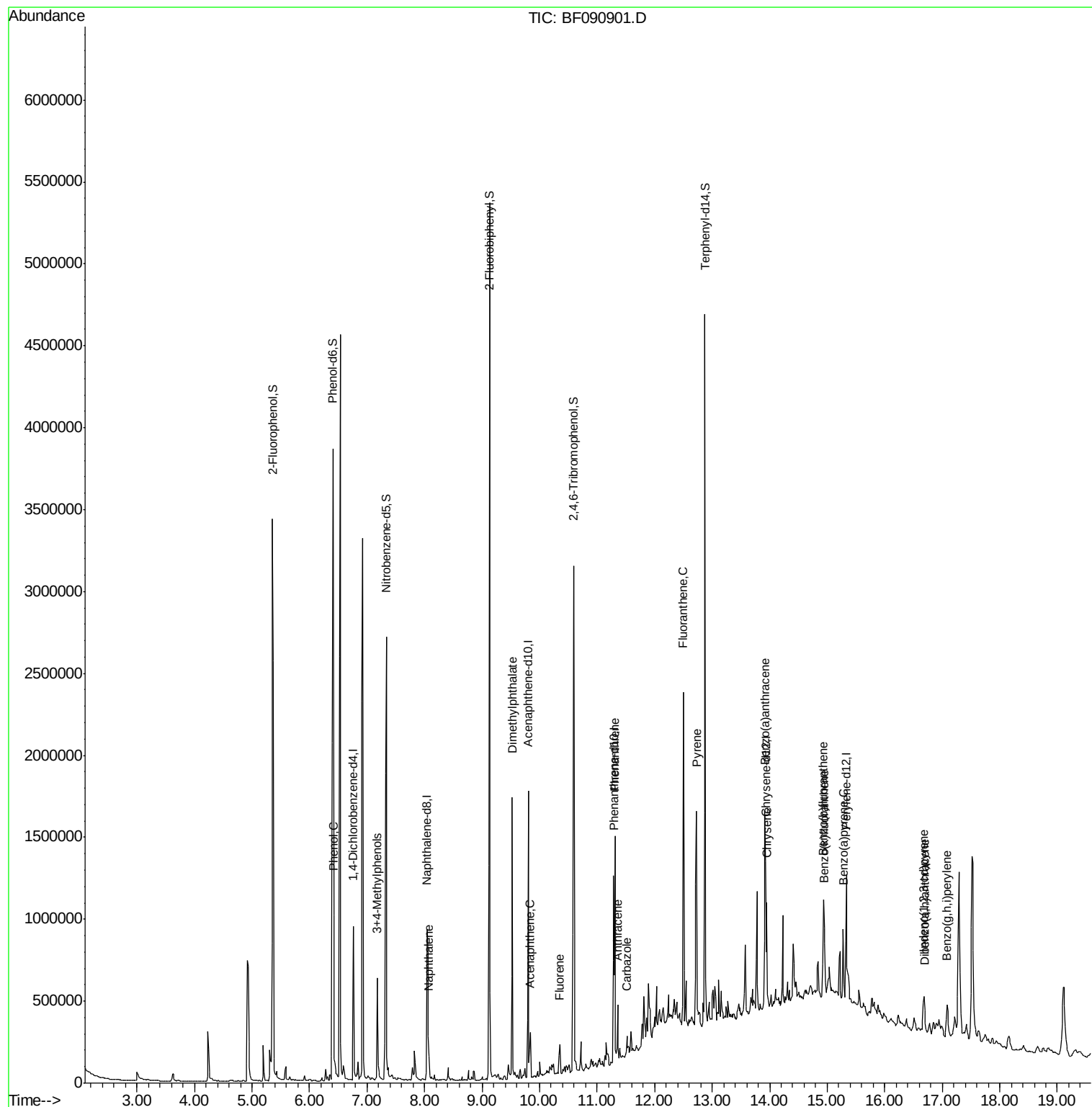
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102816\  
Data File : BF090901.D  
Acq On : 28 Oct 2016 11:11  
Operator : UM/SJ  
Sample : H5423-05  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

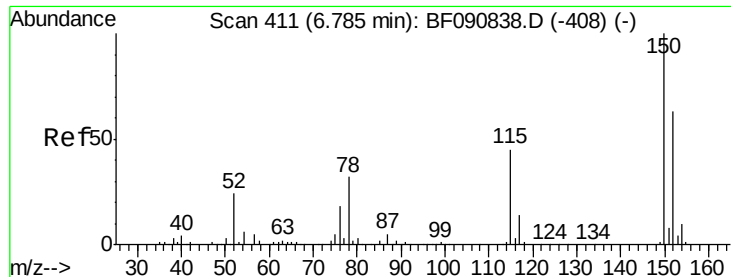
Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM

Quant Time: Nov 02 11:10:44 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 28 13:32:00 2016  
Response via : Initial Calibration





#1

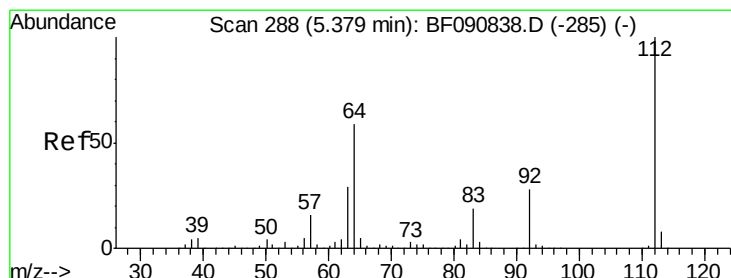
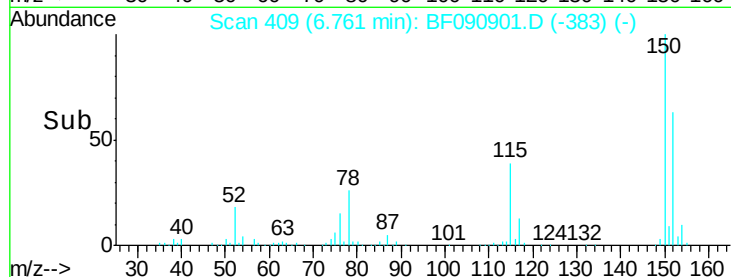
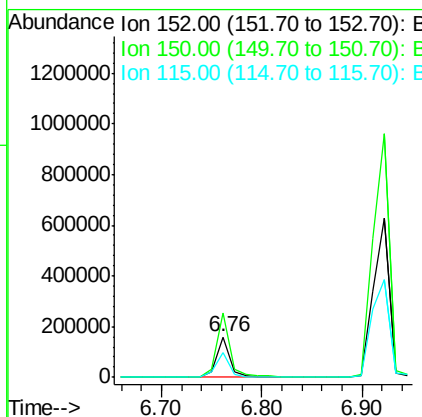
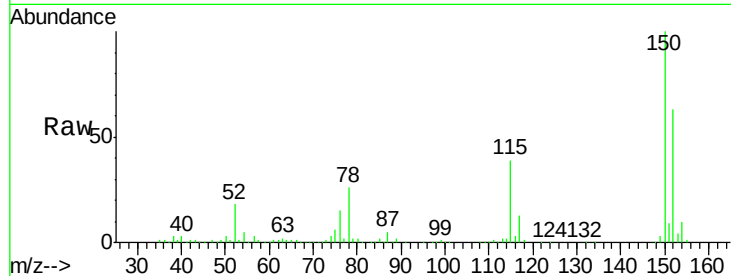
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.76 min Scan# 409  
Delta R.T. 0.00 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 124.7 | 187.1 |
| 115     | 62.3  | 39.0  | 58.4  |

Manual Integrations  
APPROVED

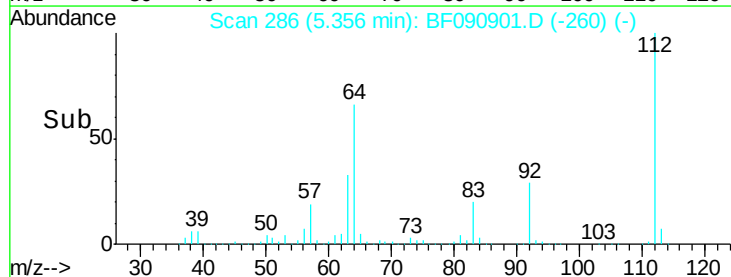
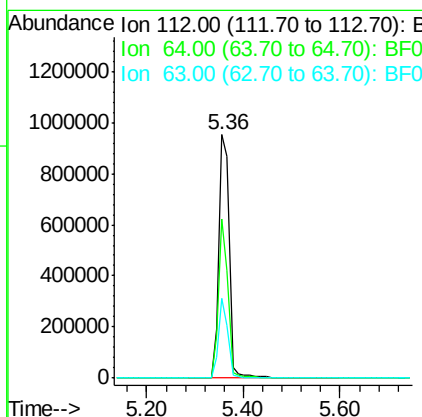
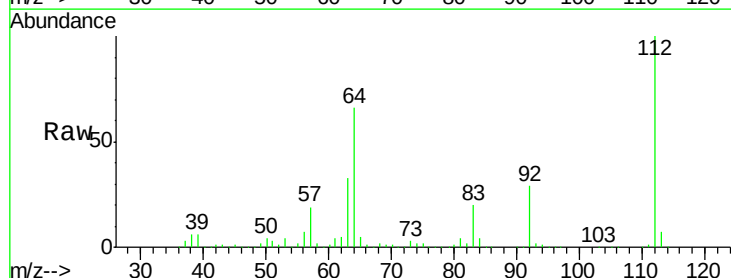
sohil  
11/2/2016 5:40:16 PM

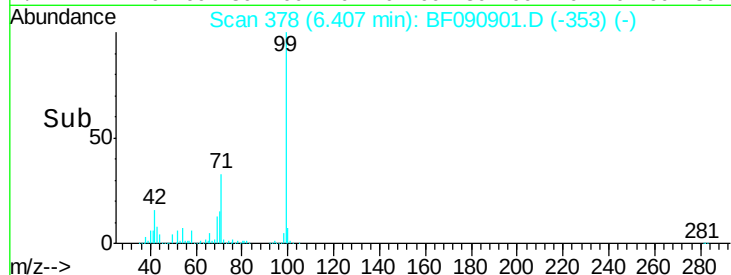
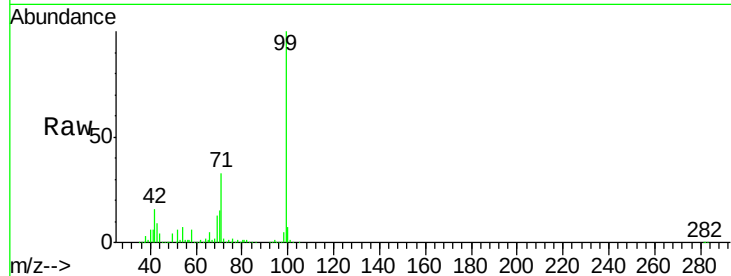
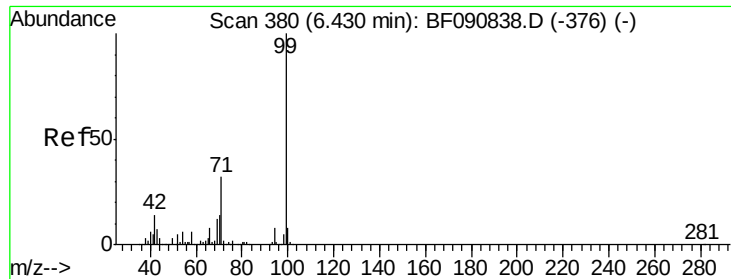


#5

2-Fluorophenol  
Concen: 170.46 ng  
RT: 5.36 min Scan# 286  
Delta R.T. 0.00 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.5  | 39.7  | 59.5  |
| 63      | 32.7  | 17.4  | 26.0  |





#7

Phenol-d6

Concen: 148.20 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 99      | 99  | 100   |       |       |
| 42      | 42  | 16.4  | 13.7  | 20.5  |
| 71      | 71  | 33.5  | 14.2  | 21.2  |

Instrument :

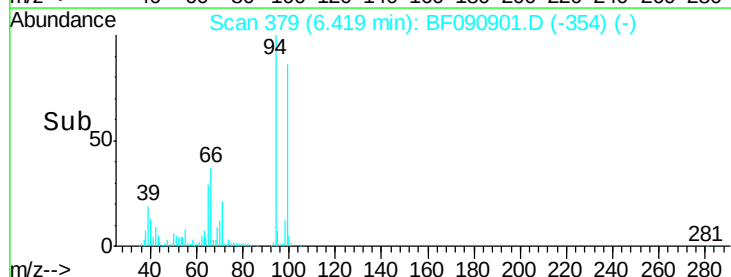
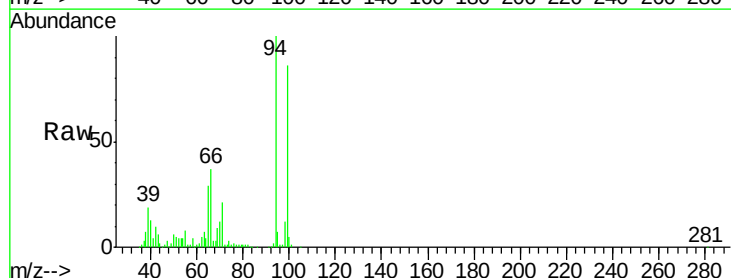
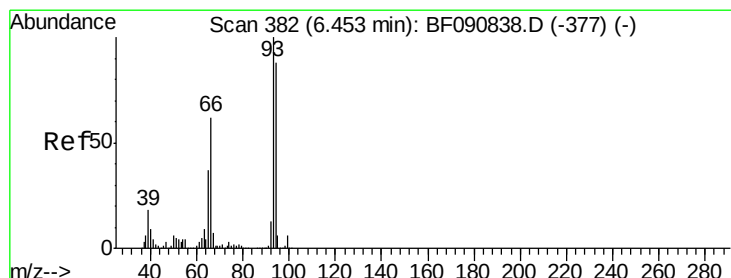
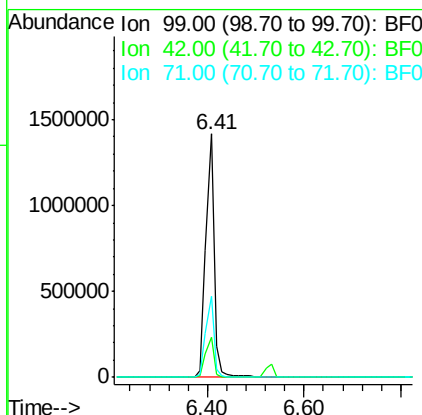
BNA\_F

ClientSampleId :

SB-3COMP(0-16FEET)

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM



#10

Phenol

Concen: 14.01 ng

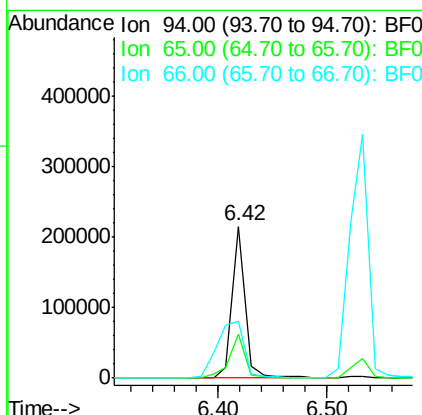
RT: 6.42 min Scan# 379

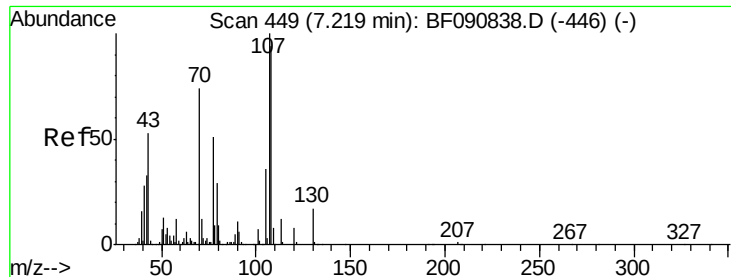
Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 94      | 94  | 100   |       |       |
| 65      | 65  | 28.7  | 0.7   | 40.7  |
| 66      | 66  | 37.4  | 0.8   | 40.8  |





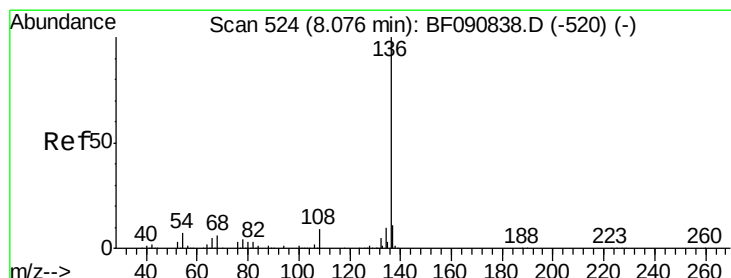
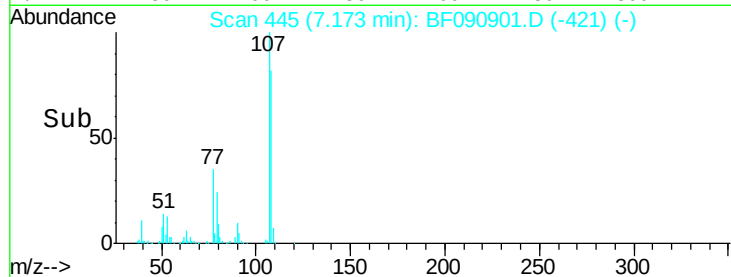
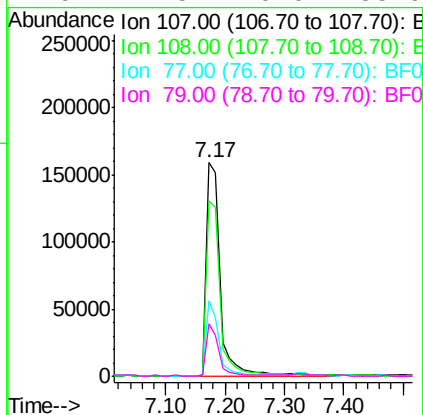
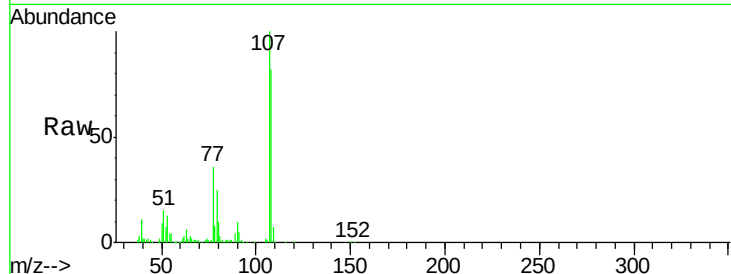
#20  
3+4-Methylphenols  
Concen: 28.40 ng  
RT: 7.17 min Scan# 445  
Delta R.T. -0.02 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 266902 |       |       |
| 108     | 82.3  |        | 74.6  | 114.6 |
| 77      | 35.7  |        | 0.7   | 40.7  |
| 79      | 24.5  |        | 0.0   | 38.9  |

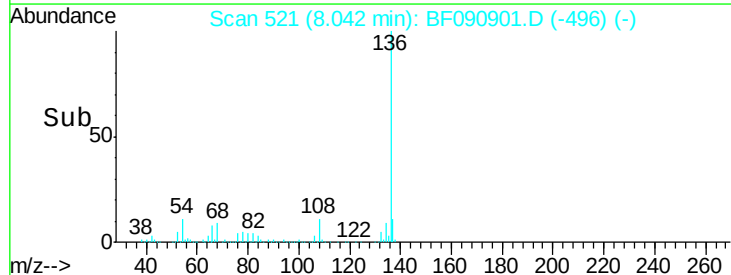
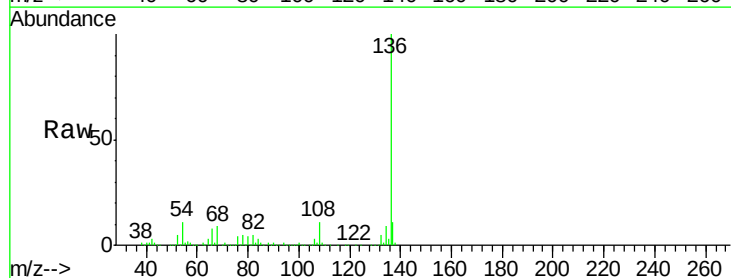
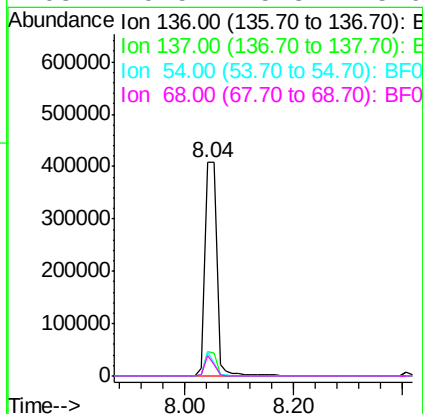
Manual Integrations  
APPROVED

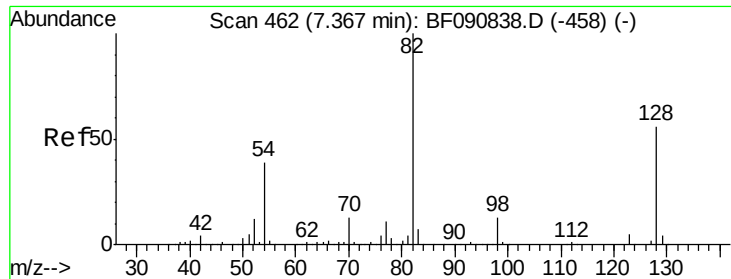
sohil  
11/2/2016 5:40:16 PM



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.04 min Scan# 521  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 612326 |       |       |
| 137     | 11.5  |        | 9.0   | 13.6  |
| 54      | 11.4  |        | 8.2   | 12.2  |
| 68      | 9.5   |        | 5.8   | 8.6#  |





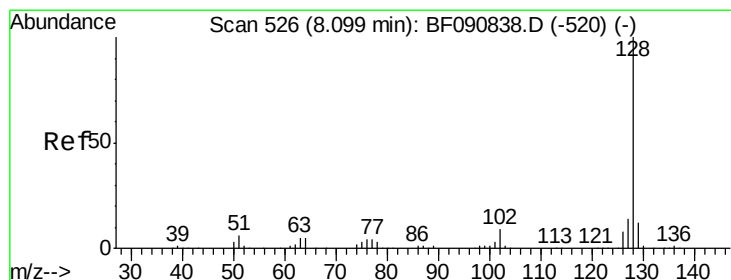
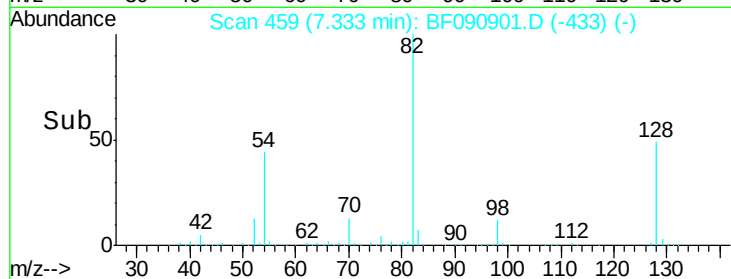
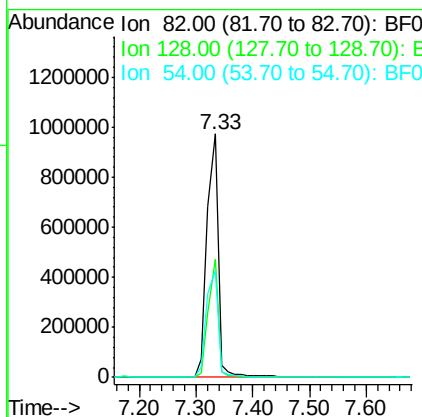
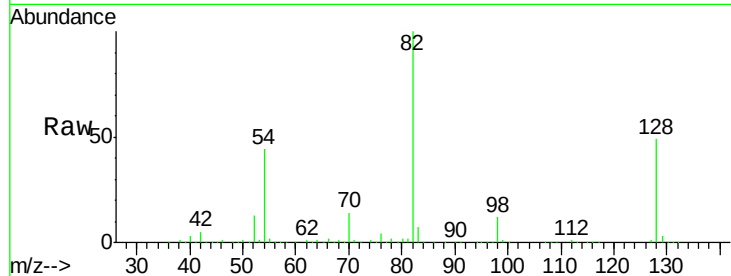
#23  
 Nitrobenzene-d5  
 Concen: 137.58 ng  
 RT: 7.33 min Scan# 459  
 Delta R.T. 0.00 min  
 Lab File: BF090901.D  
 Acq: 28 Oct 2016 11:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-3COMP(0-16FEET)

Tot Ion: 82 Resp: 1286881  
 Ion Ratio Lower Upper  
 82 100  
 128 48.7 51.0 76.6#  
 54 43.6 47.5 71.3#

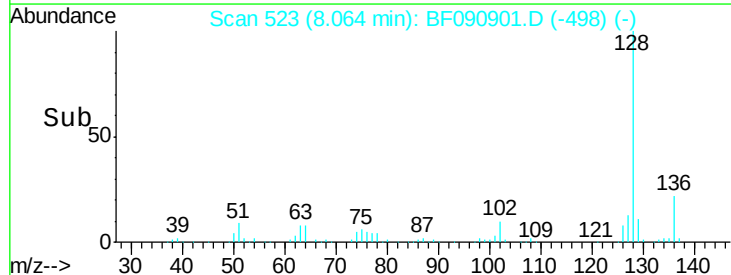
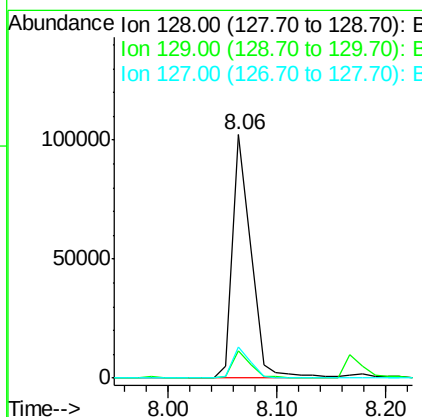
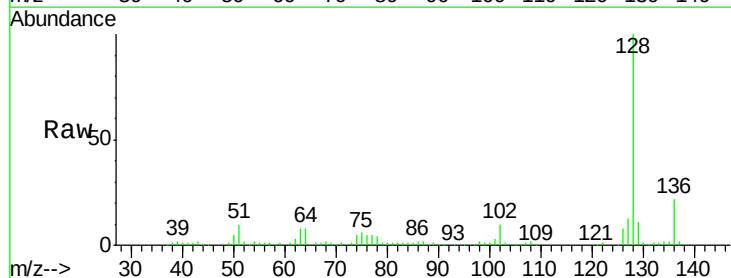
Manual Integrations  
 APPROVED

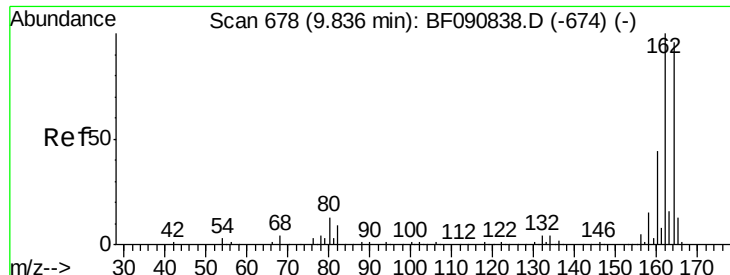
sohil  
 11/2/2016 5:40:16 PM



#31  
 Naphthalene  
 Concen: 4.19 ng  
 RT: 8.06 min Scan# 523  
 Delta R.T. -0.01 min  
 Lab File: BF090901.D  
 Acq: 28 Oct 2016 11:11

Tgt Ion: 128 Resp: 120002  
 Ion Ratio Lower Upper  
 128 100  
 129 11.2 8.4 12.6  
 127 13.0 9.9 14.9





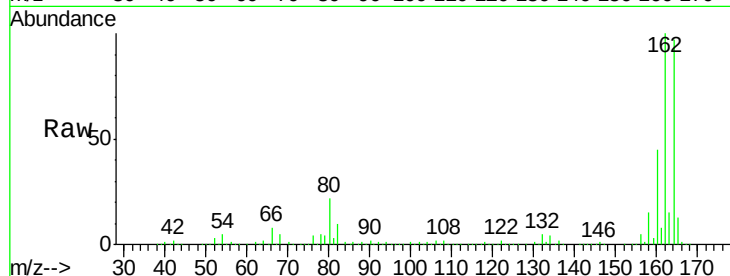
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.80 min Scan# 675  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

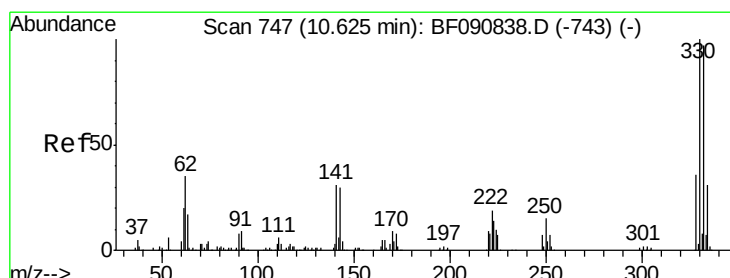
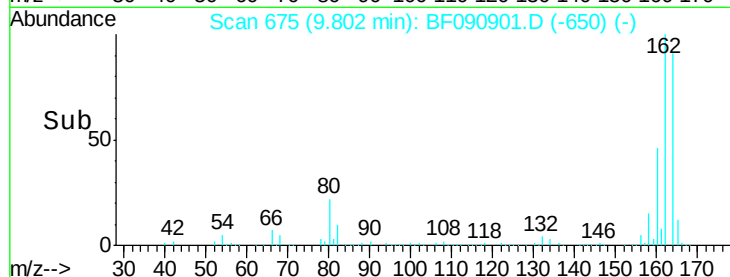
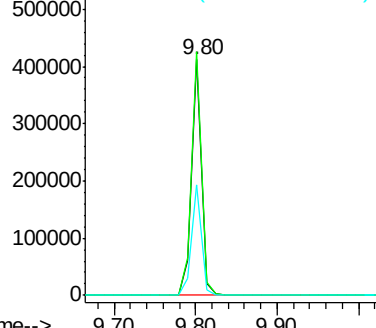
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.3 | 75.2  | 112.8 |
| 160     | 46.9  | 31.5  | 47.3  |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM

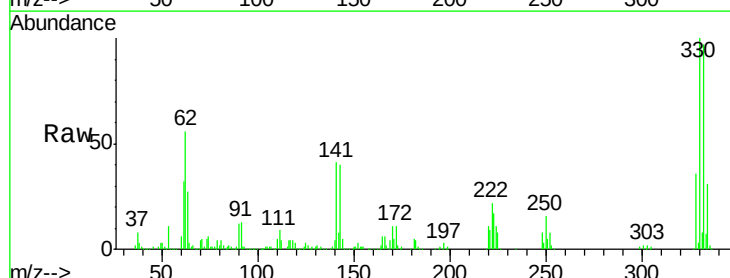


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

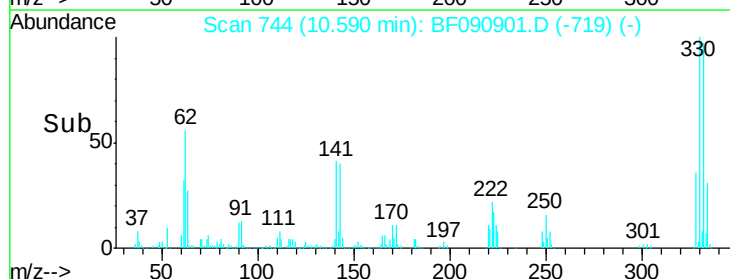
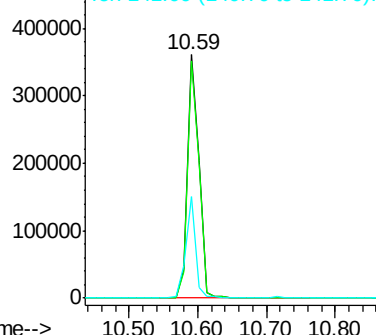


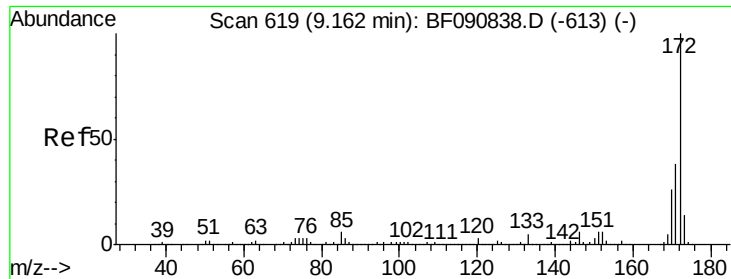
#41  
2,4,6-Tribromophenol  
Concen: 120.88 ng  
RT: 10.59 min Scan# 744  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 76.6  | 114.8 |
| 141     | 36.0  | 29.7  | 44.5  |



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





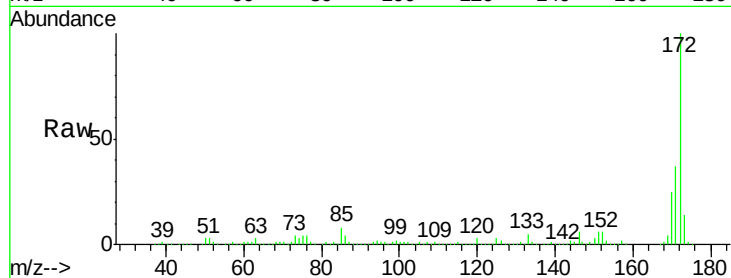
#44  
2-Fluorobiphenyl  
Concen: 84.57 ng  
RT: 9.13 min Scan# 616  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

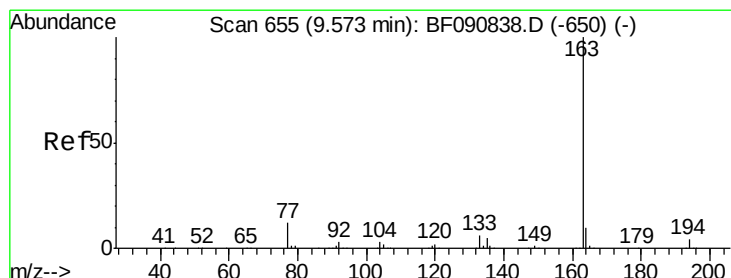
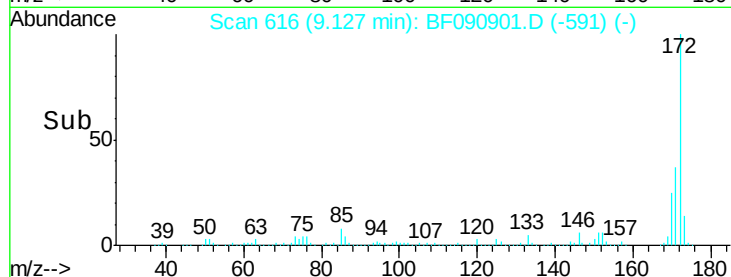
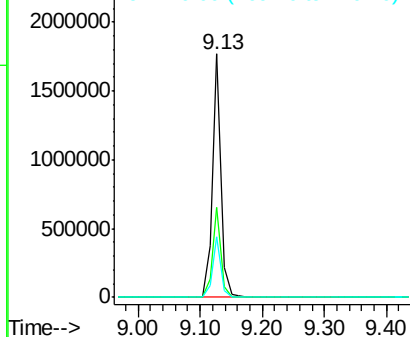
Tot Ion:172 Resp: 1669184  
Ion Ratio Lower Upper  
172 100  
171 37.0 26.1 39.1  
170 25.0 17.4 26.2

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM

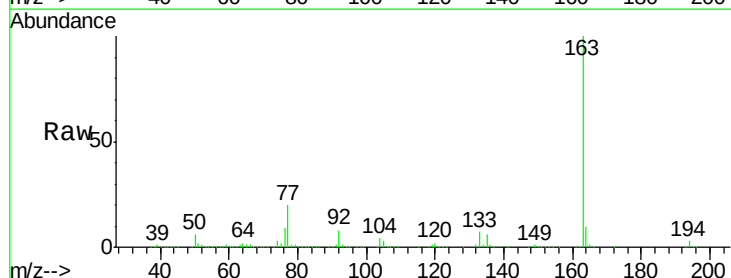


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

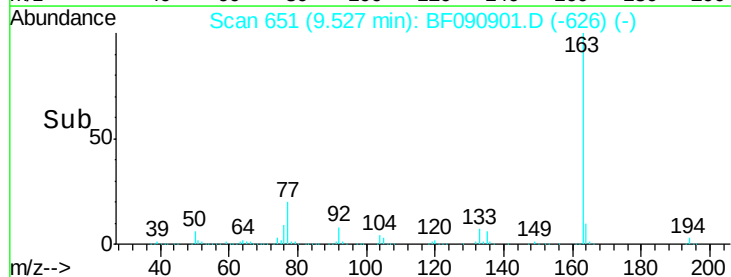
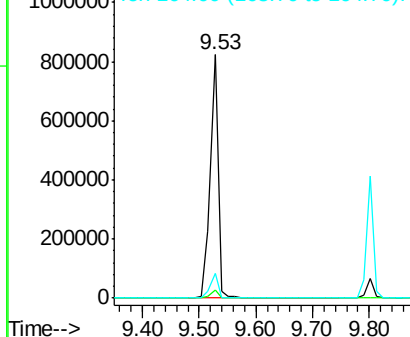


#49  
Dimethylphthalate  
Concen: 32.64 ng  
RT: 9.53 min Scan# 651  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

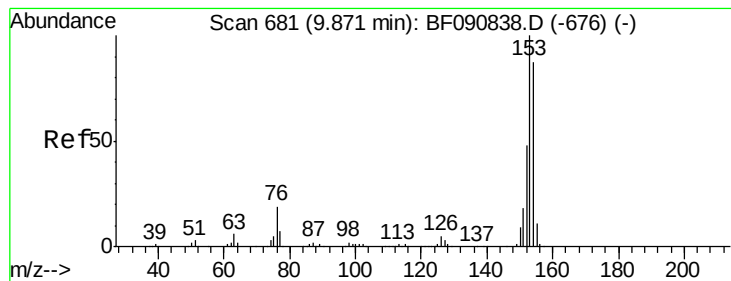
Tgt Ion:163 Resp: 755733  
Ion Ratio Lower Upper  
163 100  
194 3.5 4.4 6.6#  
164 10.2 8.3 12.5



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







#51

Acenaphthene

Concen: 3.61 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

Instrument :

BNA\_F

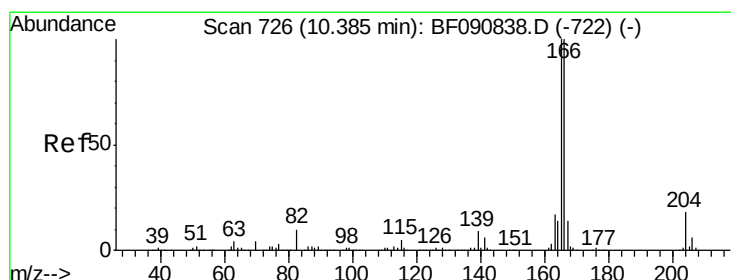
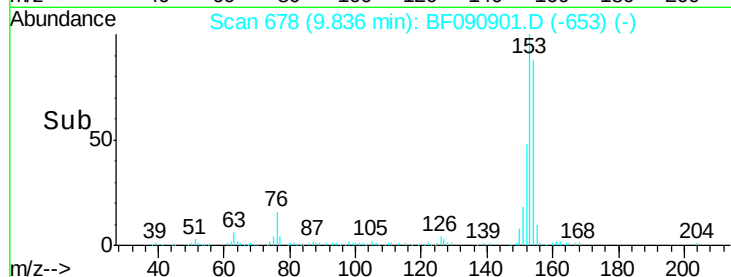
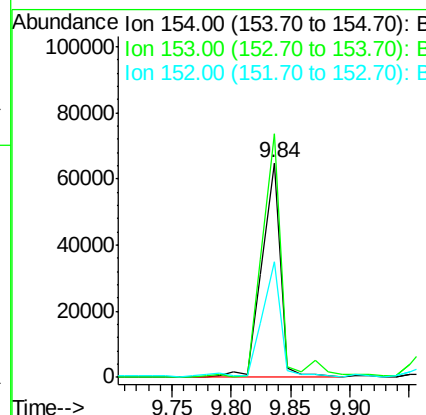
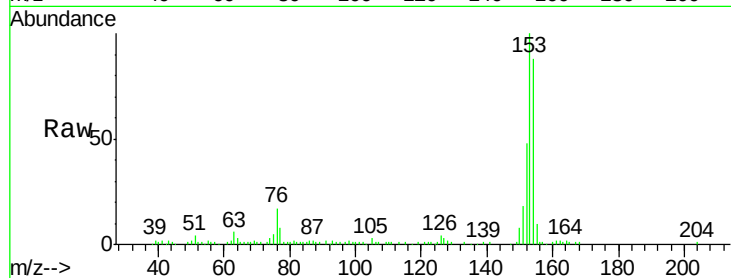
ClientSampleId :

SB-3COMP(0-16FEET)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 71515 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 113.6 | 82.1  | 123.1 |
| 152       | 54.2  | 37.9  | 56.9  |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM



#57

Fluorene

Concen: 2.97 ng

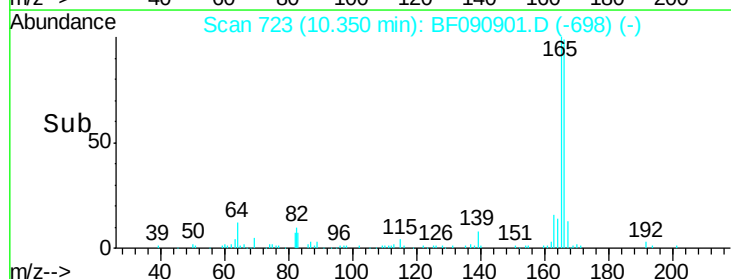
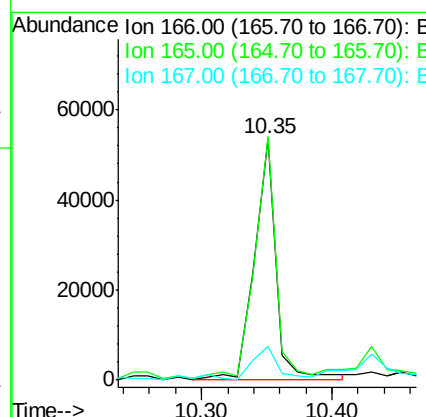
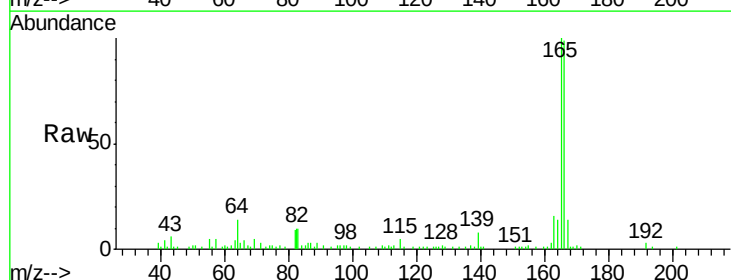
RT: 10.35 min Scan# 723

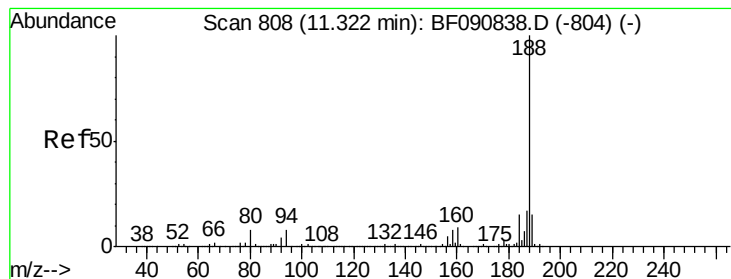
Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 62180 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.9 | 72.6  | 109.0 |
| 167       | 14.1  | 10.6  | 16.0  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 805

Delta R.T. 0.00 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

Instrument :

BNA\_F

ClientSampleId :

SB-3COMP(0-16FEET)

Tot Ion:188 Resp: 497592

Ion Ratio Lower Upper

188 100

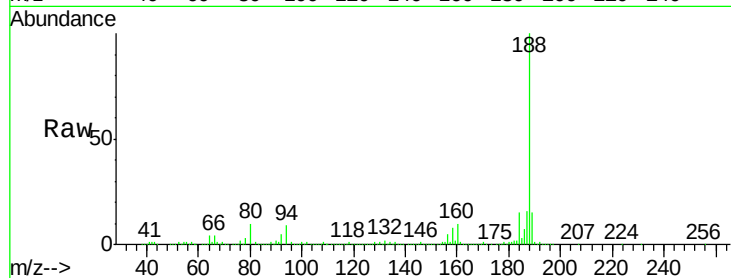
94 8.8 11.1 16.7#

80 9.6 11.0 16.4#

Manual Integrations  
APPROVED

sohil

11/2/2016 5:40:16 PM



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

11.29

600000

500000

400000

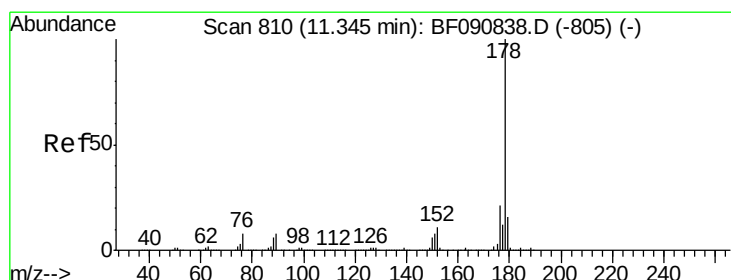
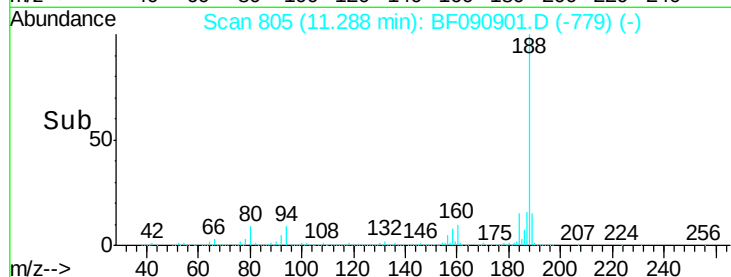
300000

200000

100000

0

Time-->



#70

Phenanthrene

Concen: 21.18 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

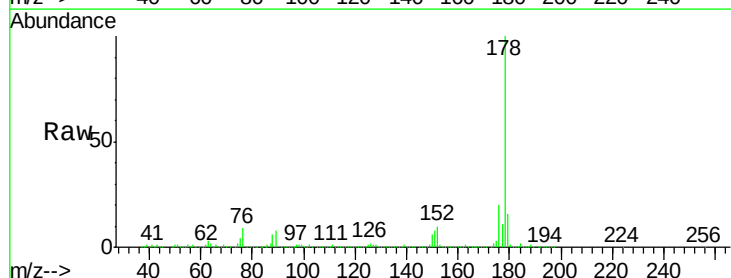
Tgt Ion:178 Resp: 536644

Ion Ratio Lower Upper

178 100

176 20.0 13.8 20.8

179 15.6 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

11.31

800000

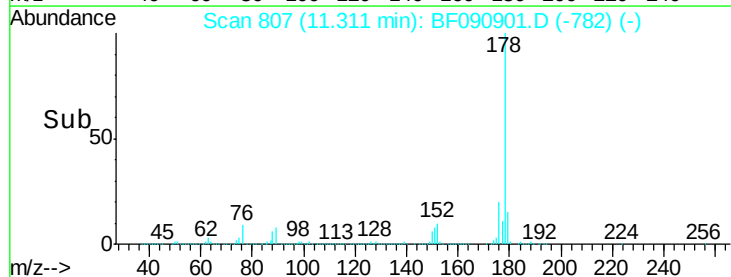
600000

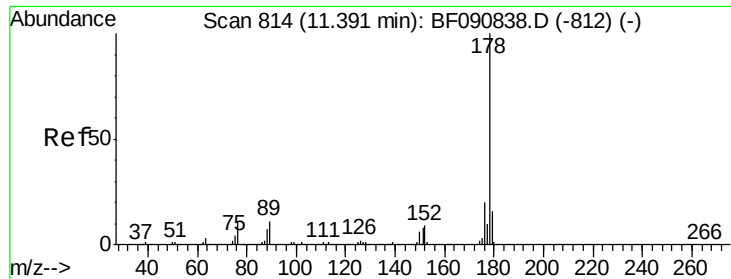
400000

200000

0

Time-->





#71

Anthracene

Concen: 5.63 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

Instrument :

BNA\_F

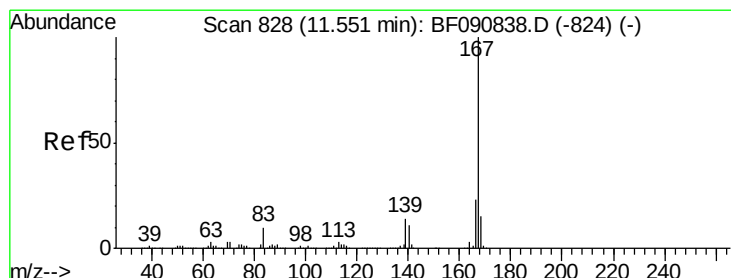
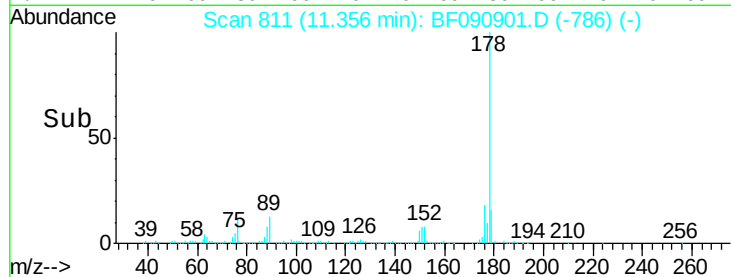
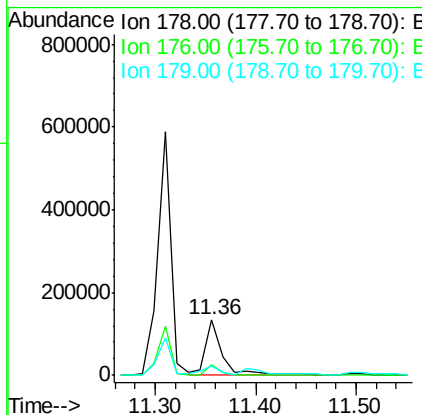
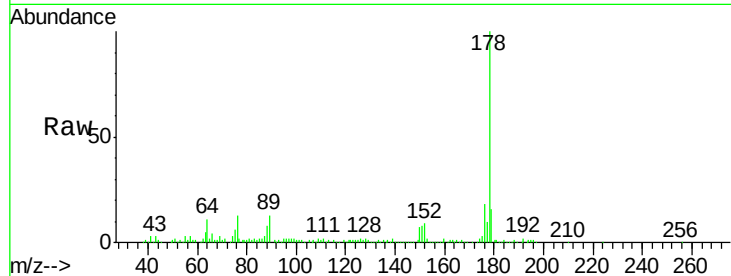
ClientSampleId :

SB-3COMP(0-16FEET)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 150336 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.4  | 14.1  | 21.1   |
| 179       | 16.3  | 12.2  | 18.2   |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM



#72

Carbazole

Concen: 2.31 ng

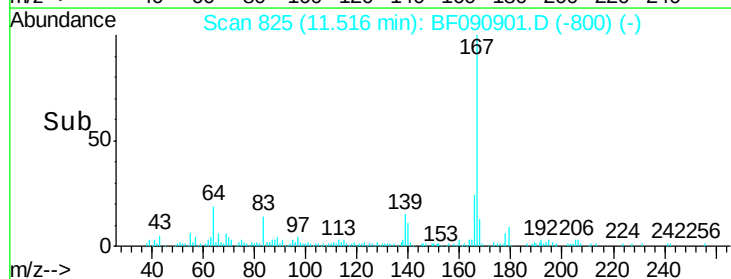
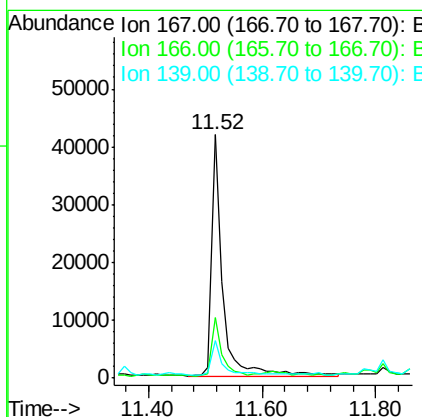
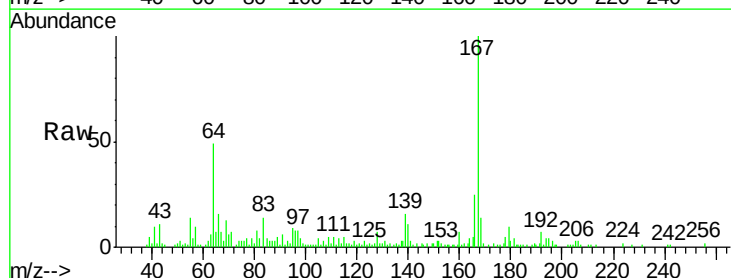
RT: 11.52 min Scan# 825

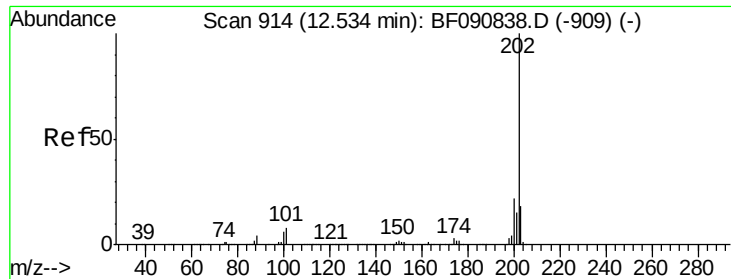
Delta R.T. -0.01 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 54518 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 24.7  | 15.7  | 23.5# |
| 139       | 15.6  | 9.5   | 14.3# |





#74

Fluoranthene

Concen: 25.82 ng

RT: 12.50 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

Instrument :

BNA\_F

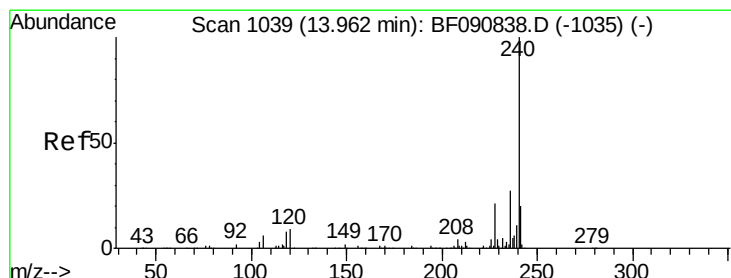
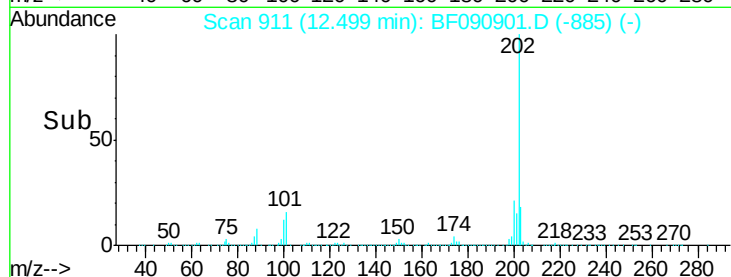
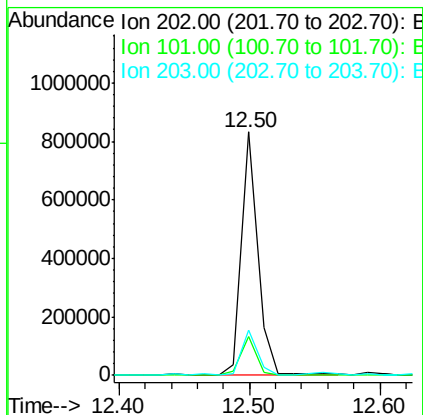
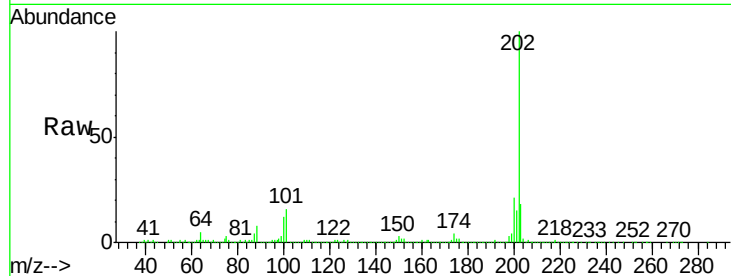
ClientSampleId :

SB-3COMP(0-16FEET)

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 716397 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 16.0 | 0.0   | 38.3   |
| 203       | 18.4 | 0.0   | 37.3   |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM



#75

Chrysene-d12

Concen: 20.00 ng

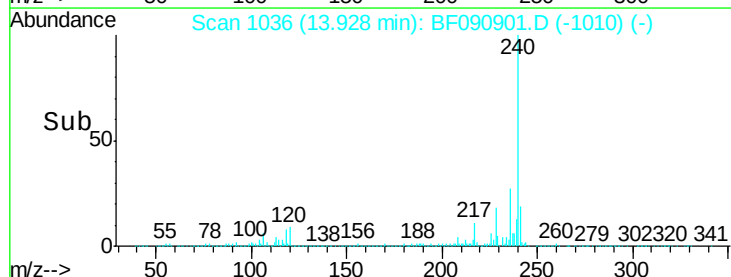
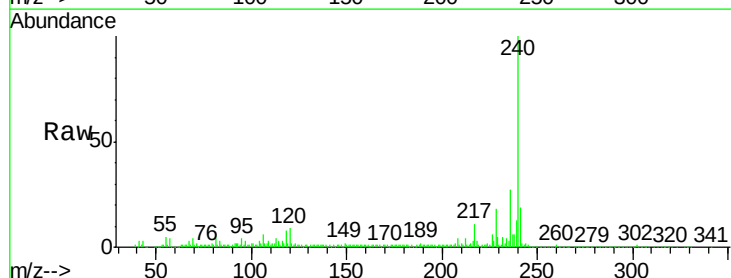
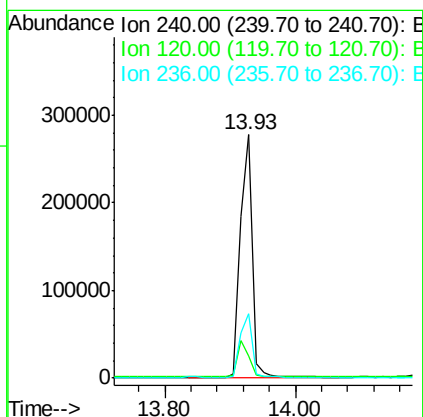
RT: 13.93 min Scan# 1036

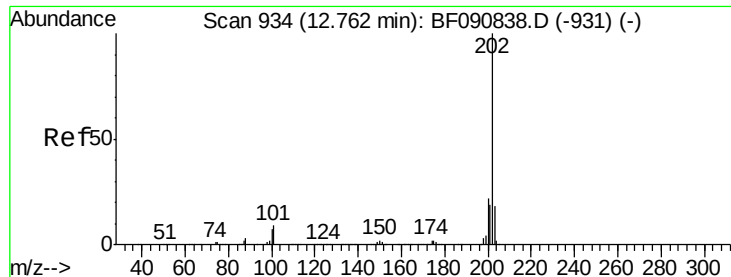
Delta R.T. 0.00 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 342363 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 9.0  | 16.2  | 24.2#  |
| 236       | 26.7 | 18.4  | 27.6   |





#77

Pvrene

Concen: 30.25 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

Instrument :

BNA\_F

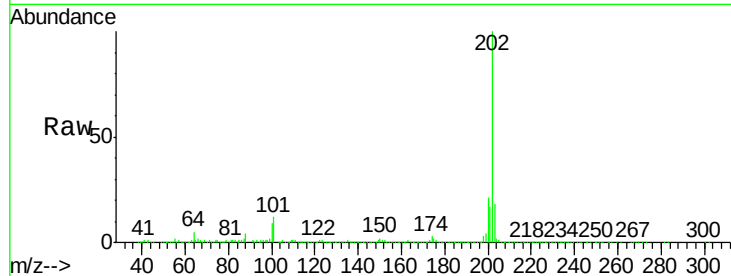
ClientSampleId :

SB-3COMP(0-16FEET)

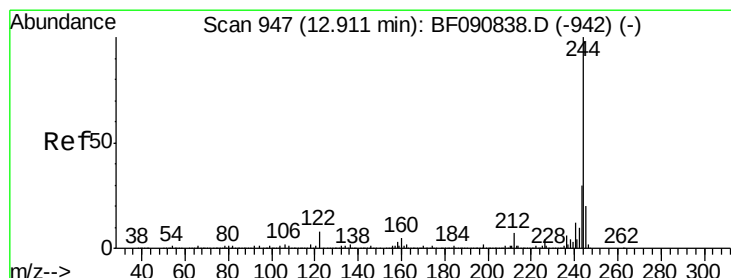
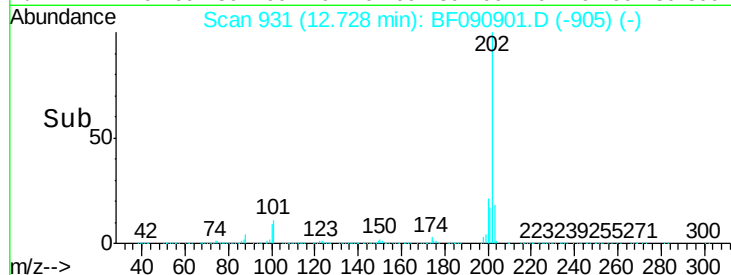
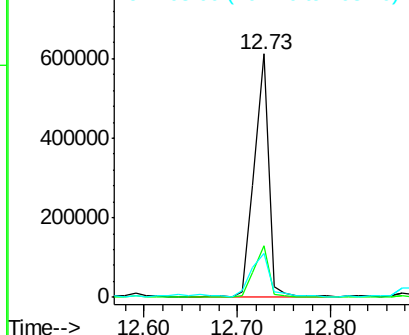
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 655416 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.5  | 15.0  | 22.4   |
| 203       | 18.2  | 14.1  | 21.1   |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM



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: 99.37 ng

RT: 12.88 min Scan# 944

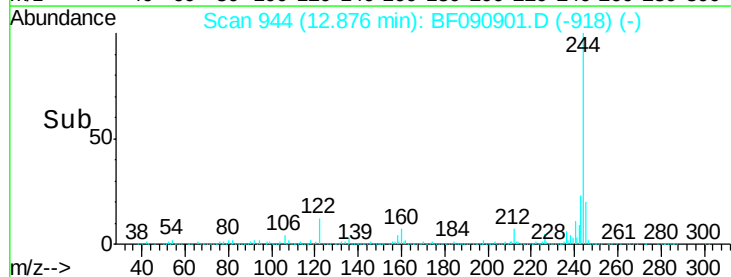
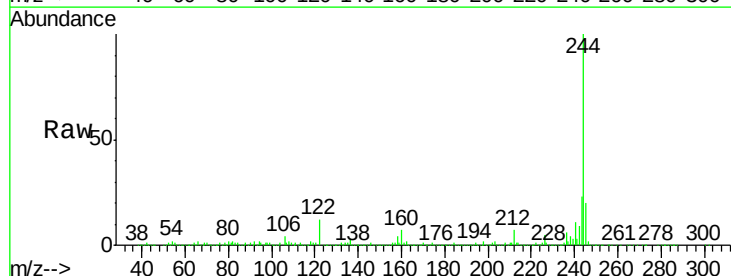
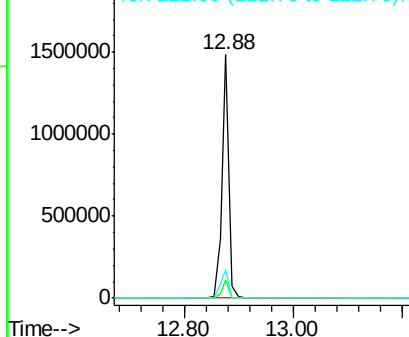
Delta R.T. 0.00 min

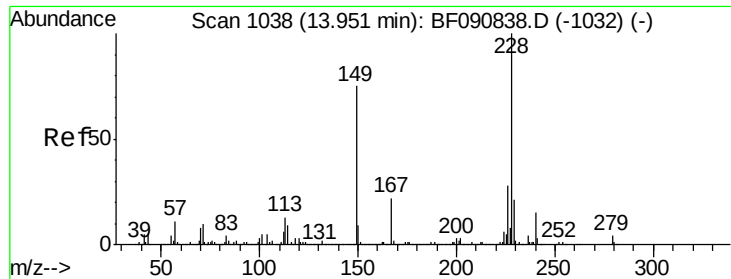
Lab File: BF090901.D

Acq: 28 Oct 2016 11:11

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1350324 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.3   | 4.3   | 6.5#    |
| 122       | 11.6  | 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





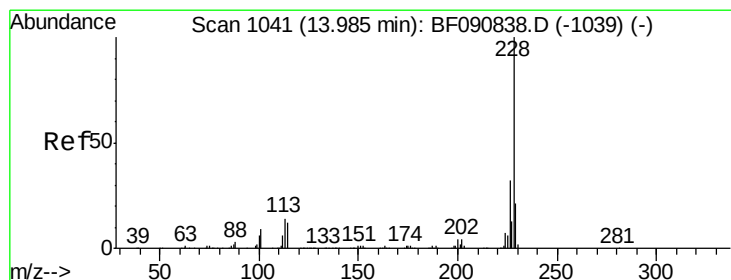
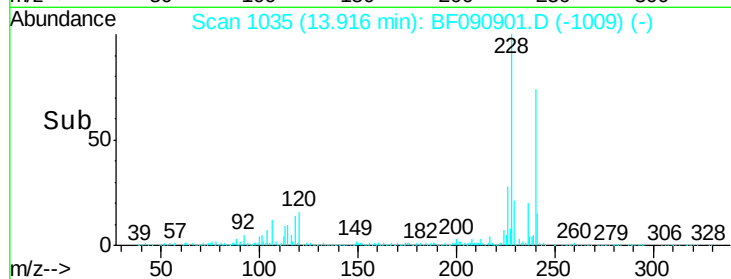
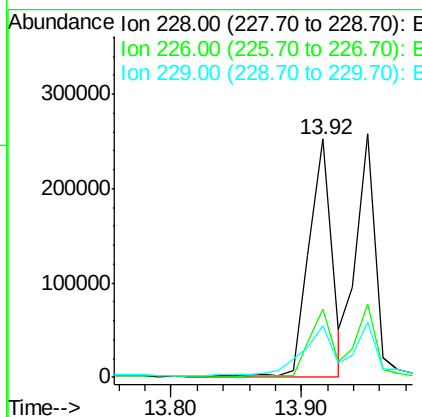
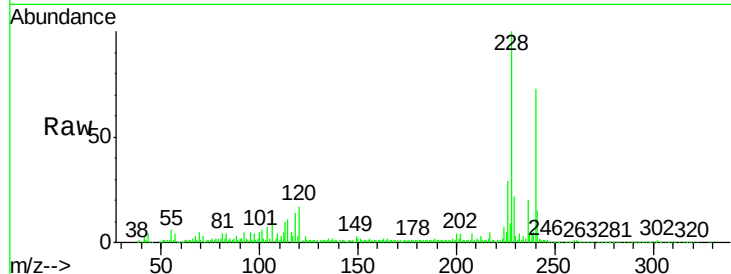
#80  
Benzo(a)anthracene  
Concen: 16.58 ng  
RT: 13.92 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 20.0  | 30.0  |
| 229     | 21.9  | 15.4  | 23.2  |

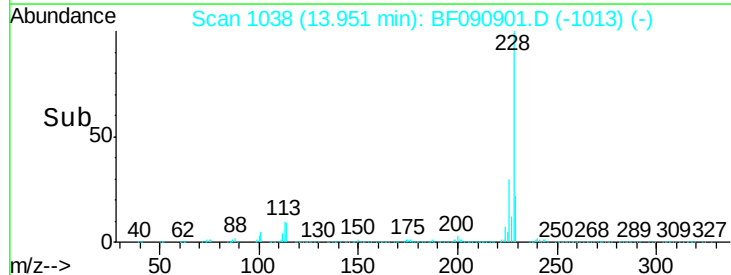
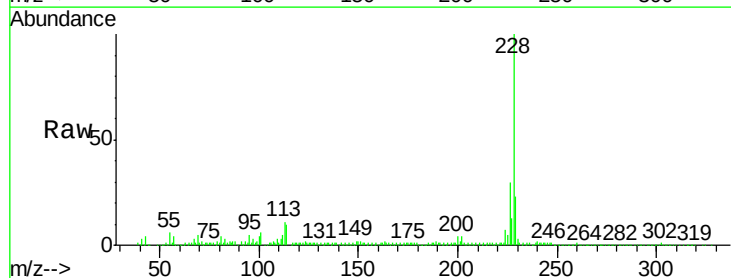
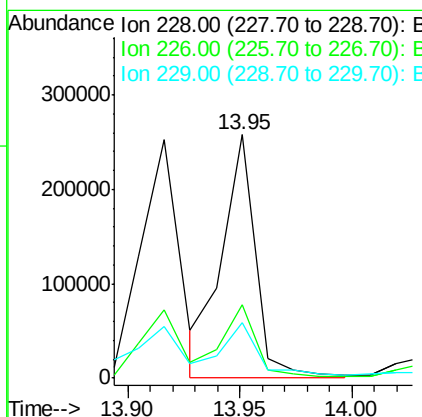
Manual Integrations  
APPROVED

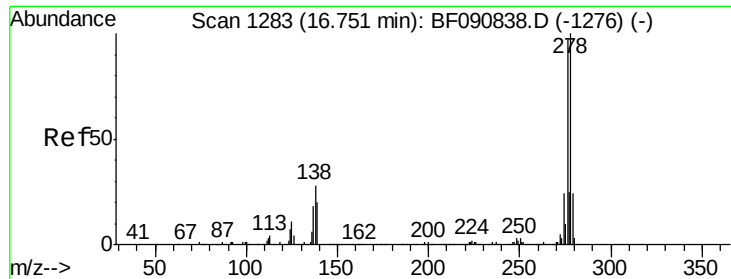
sohil  
11/2/2016 5:40:16 PM



#82  
Chrysene  
Concen: 14.62 ng m  
RT: 13.95 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 21.0  | 31.4  |
| 229     | 22.9  | 15.6  | 23.4  |





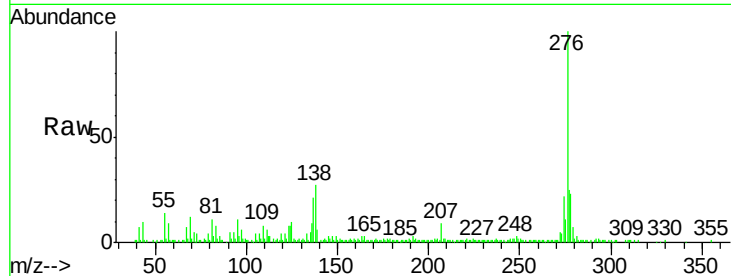
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 8.67 ng/mL  
RT: 16.68 min Scan# 1277  
Delta R.T. -0.02 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

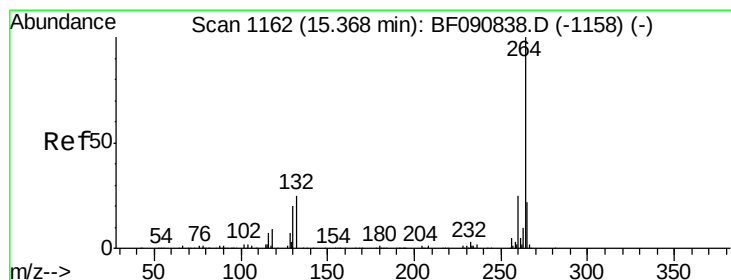
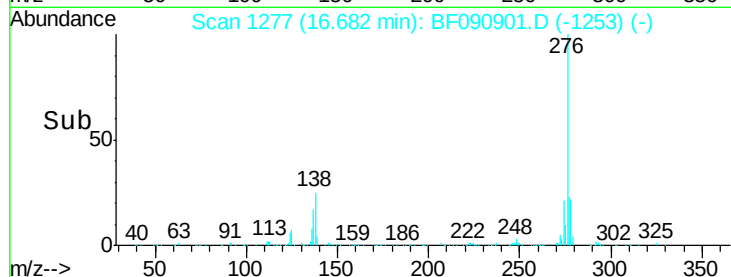
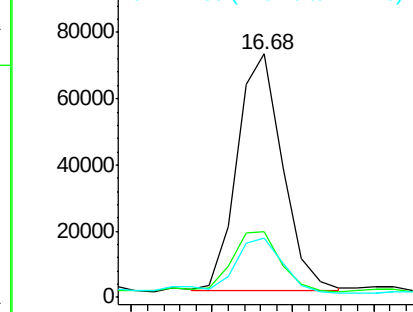
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 6.4   | 25.7  | 38.5# |
| 277     | 4.7   | 15.6  | 23.4# |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM

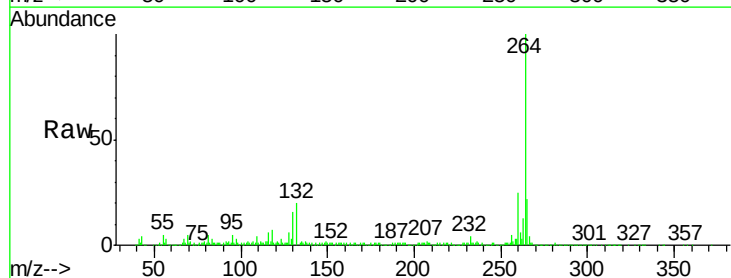


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

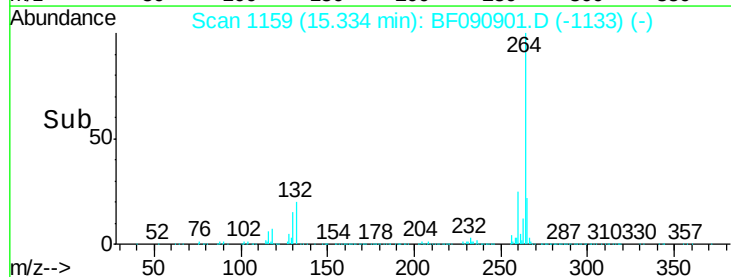
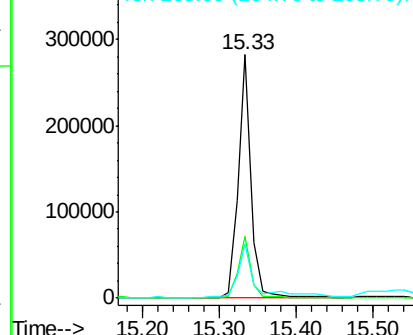


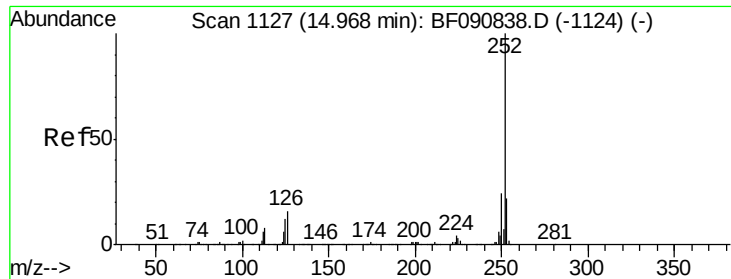
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.33 min Scan# 1159  
Delta R.T. 0.00 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 16.7  | 25.1# |
| 265     | 22.3  | 17.2  | 25.8  |



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





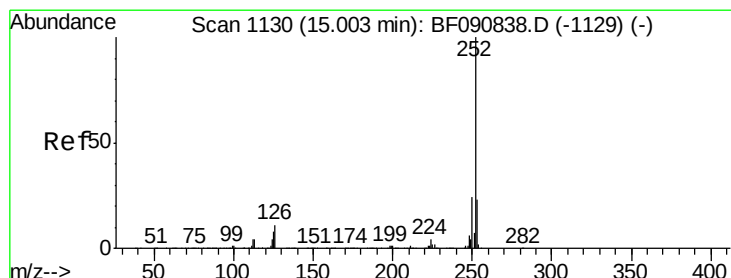
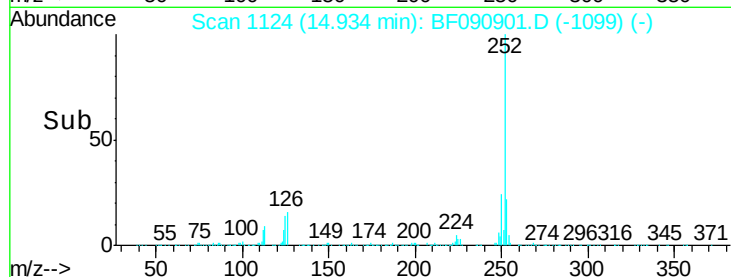
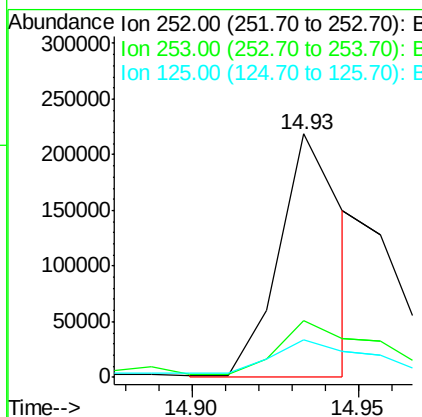
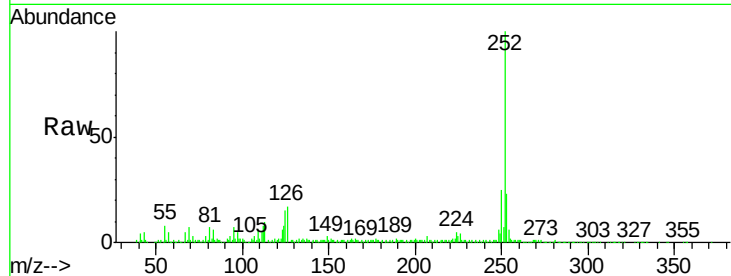
#87  
Benzo(b)fluoranthene  
Concen: 13.11 ng m  
RT: 14.93 min Scan# 1124  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.5  | 26.3  |
| 125     | 15.5  | 17.1  | 25.7  |

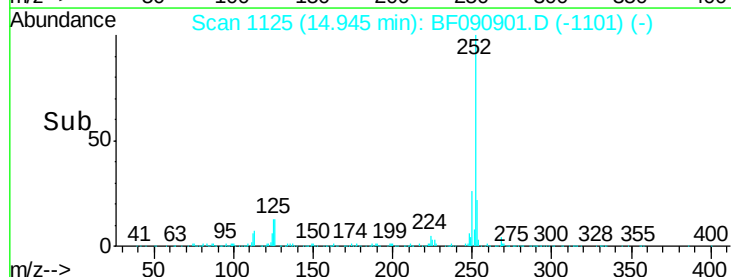
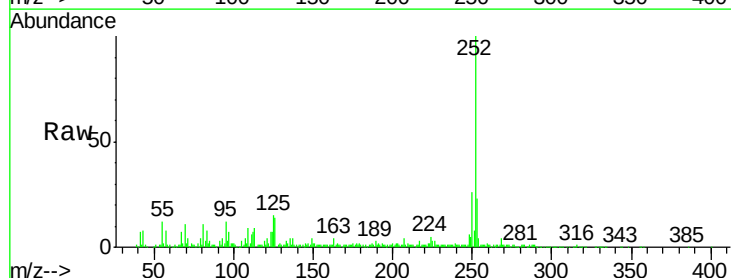
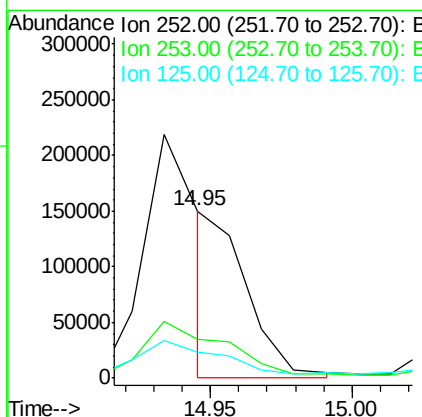
Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM

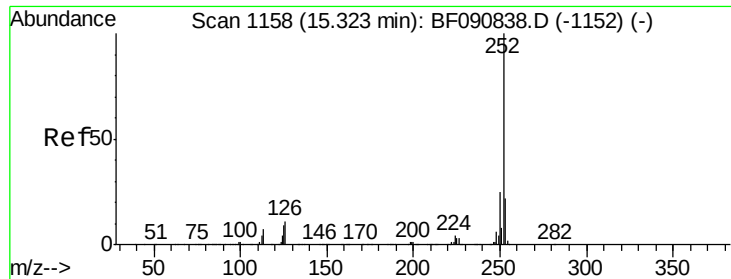


#88  
Benzo(k)fluoranthene  
Concen: 7.12 ng m  
RT: 14.95 min Scan# 1125  
Delta R.T. -0.02 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.0  | 25.4  |
| 125     | 15.2  | 16.0  | 24.0  |







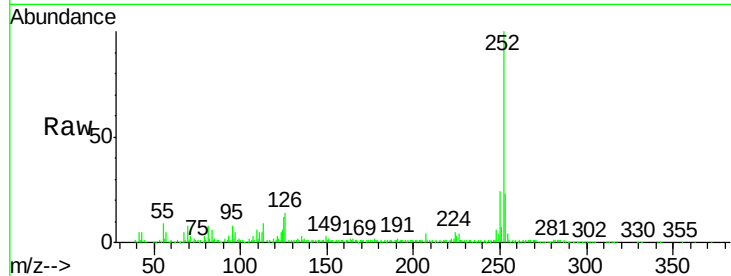
#89  
Benzo(a)pyrene  
Concen: 12.92 ng  
RT: 15.28 min Scan# 1154  
Delta R.T. -0.01 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3COMP(0-16FEET)

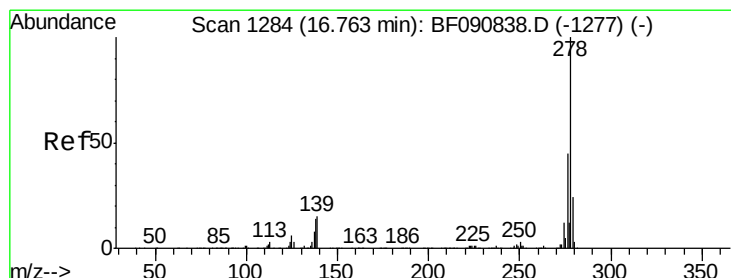
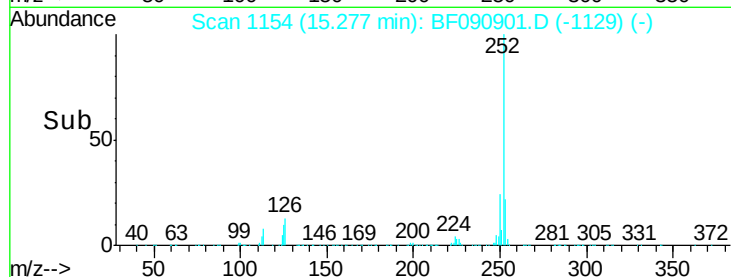
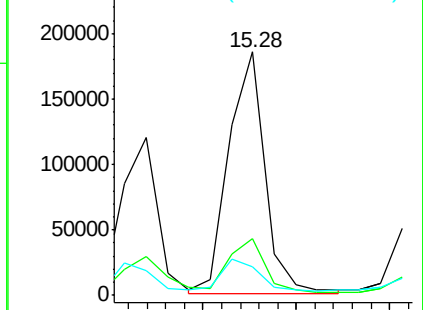
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 250127 |       |       |
| 253     | 23.5  | 17.2   | 25.8  |       |
| 125     | 11.8  | 18.0   | 27.0  |       |

Manual Integrations  
APPROVED

sohil  
11/2/2016 5:40:16 PM

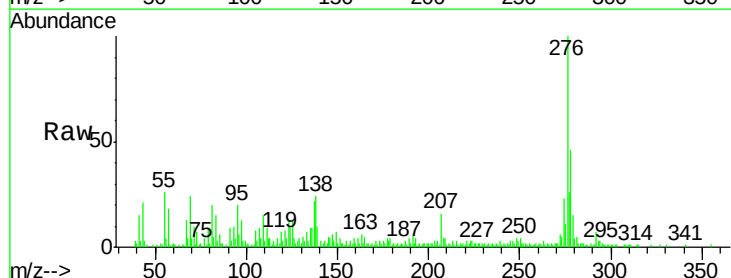


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

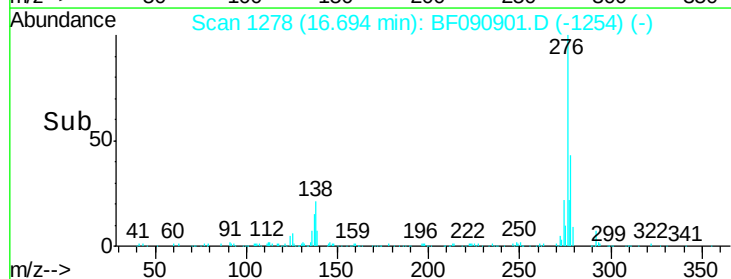
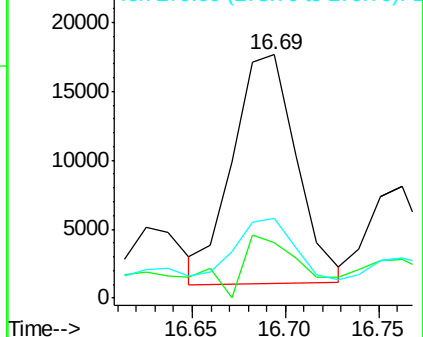


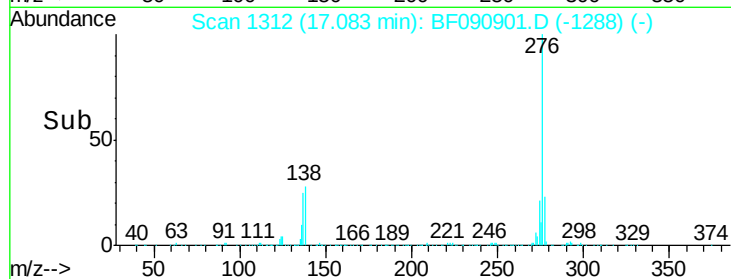
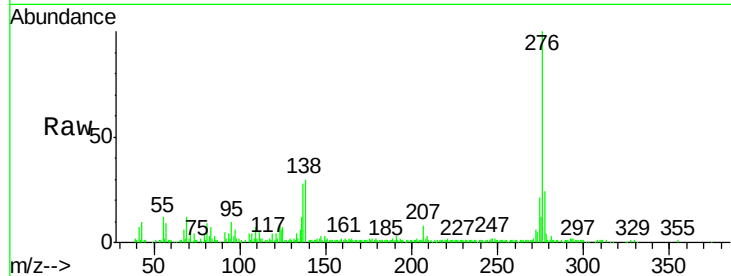
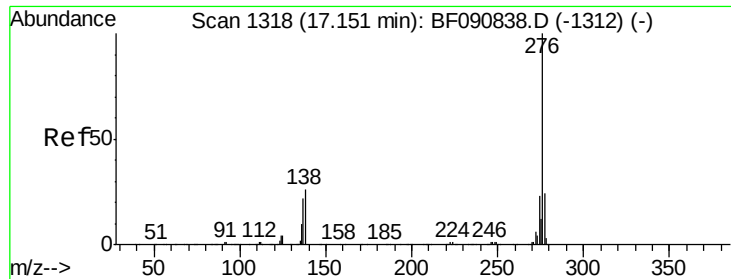
#90  
Dibenzo(a,h)anthracene  
Concen: 2.42 ng  
RT: 16.69 min Scan# 1278  
Delta R.T. -0.02 min  
Lab File: BF090901.D  
Acq: 28 Oct 2016 11:11

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 39629 |       |       |
| 139     | 22.9  | 26.3  | 39.5  |       |
| 279     | 32.9  | 18.2  | 27.4  |       |



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





#91  
 Benzo(a,h,i)perylene  
 Concen: 9.58 ng  
 RT: 17.08 min Scan# 1312  
 Delta R.T. -0.02 min  
 Lab File: BF090901.D  
 Acq: 28 Oct 2016 11:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-3COMP(0-16FEET)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 17.8  | 26.6  |
| 138     | 29.5  | 34.6  | 51.8  |

Manual Integrations  
 APPROVED

sohil  
 11/2/2016 5:40:16 PM

