

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\  
 Data File : BF088925.D  
 Acq On : 12 Jul 2016 15:54  
 Operator : UM/SJ  
 Sample : H3889-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-7

## Manual Integrations

APPROVED  
 SOHIL  
 7/13/2016 9:26:17 AM

Quant Time: Jul 13 11:20:57 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 73208    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.99  | 136  | 299814   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.74  | 164  | 125413   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.21 | 188  | 201293   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.84 | 240  | 150145   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.21 | 264  | 147046   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.30  | 112  | 527183   | 107.92 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.35  | 99   | 675703   | 107.06 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.27  | 82   | 375223   | 65.59  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 125582   | 107.83 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 749933   | 94.45  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.80 | 244  | 436584   | 64.77  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate          | 9.47  | 163  | 822122   | 92.01  | ng    | 99       |
| 70) Phenanthrene               | 11.23 | 178  | 102005   | 9.27   | ng    | 98       |
| 74) Fluoranthene               | 12.42 | 202  | 145406   | 13.04  | ng    | 92       |
| 77) Pyrene                     | 12.64 | 202  | 118075   | 9.27   | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.83 | 228  | 60759    | 6.28   | ng    | 99       |
| 82) Chrysene                   | 13.86 | 228  | 62199m   | 6.50   | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 13.84 | 149  | 22109    | 3.41   | ng    | # 99     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.49 | 276  | 31805    | 4.32   | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 14.83 | 252  | 82112m   | 8.90   | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.86 | 252  | 27357m   | 3.41   | ng    |          |
| 89) Benzo(a)pyrene             | 15.15 | 252  | 52659    | 6.74   | ng    | 97       |
| 91) Benzo(a,h,i)perylene       | 16.88 | 276  | 28774    | 4.26   | ng    | 92       |

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

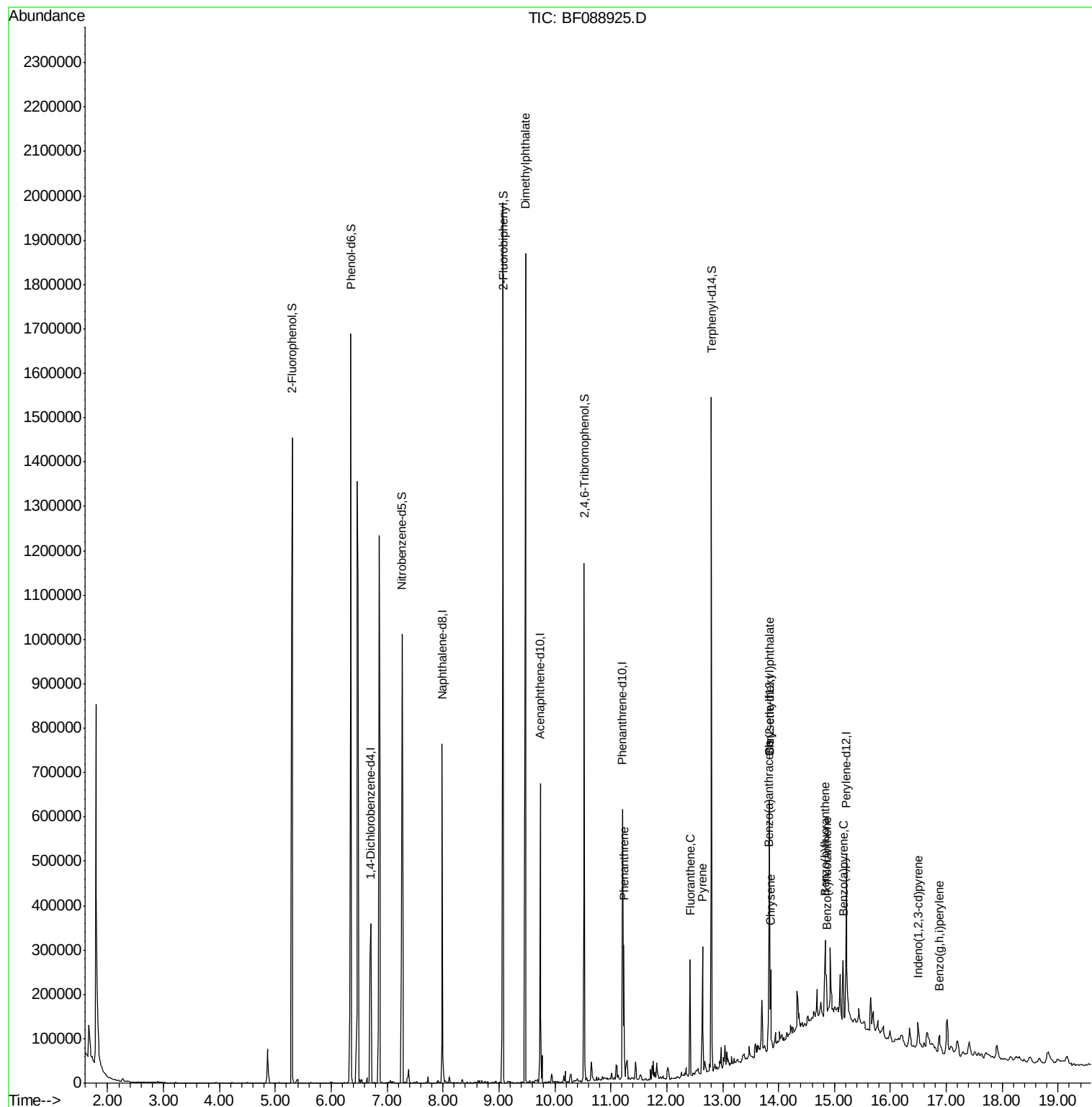
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\  
Data File : BF088925.D  
Acq On : 12 Jul 2016 15:54  
Operator : UM/SJ  
Sample : H3889-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

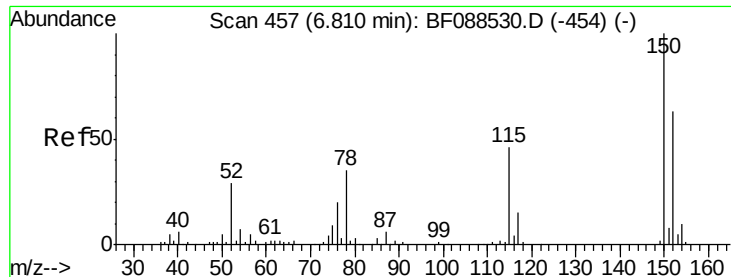
Instrument :  
BNA\_F  
ClientSampleId :  
SS-7

Manual Integrations

Quant Time: Jul 13 11:20:57 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 11 18:13:32 2016  
Response via : Initial Calibration

SOHIL  
7/13/2016 9:26:17 AM





#1

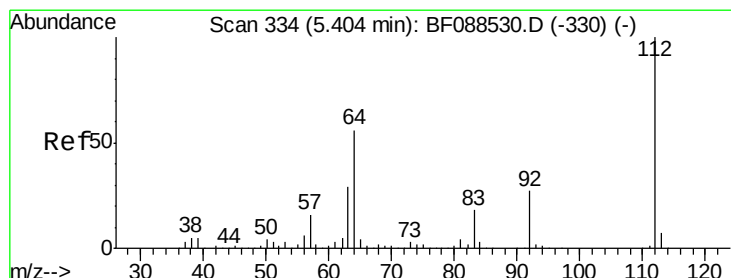
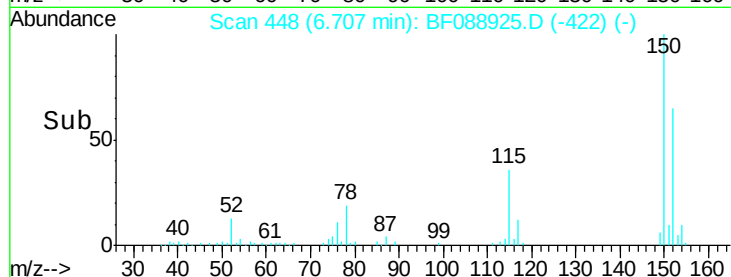
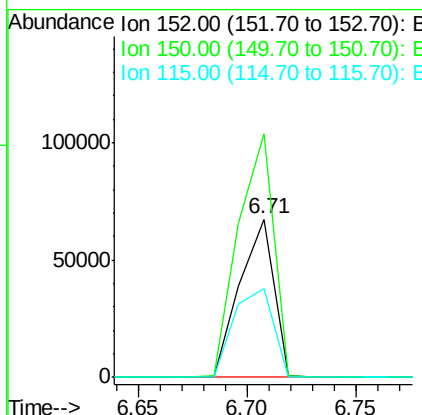
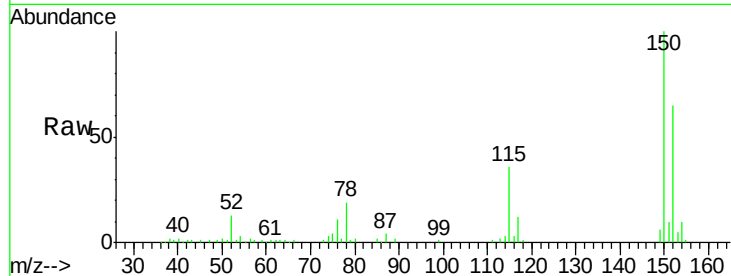
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.71 min Scan# 448  
Delta R.T. 0.00 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

Instrument :  
BNA\_F  
ClientSampled :  
SS-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.2 | 123.8 | 185.6 |
| 115     | 56.0  | 39.6  | 59.4  |

Manual Integrations

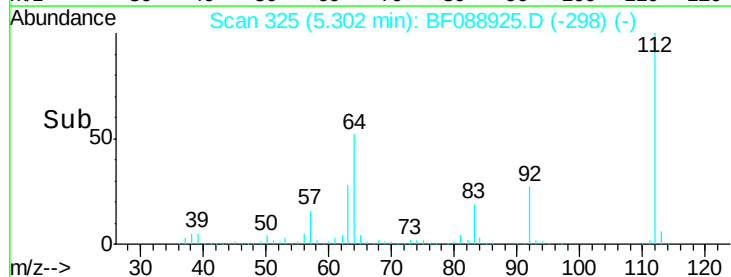
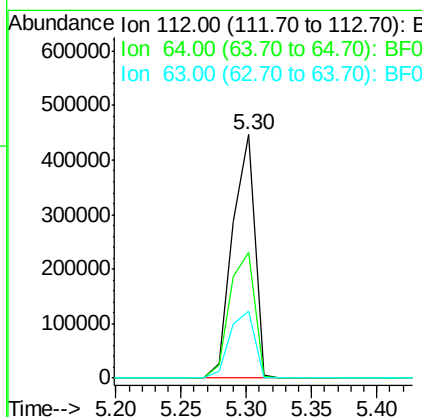
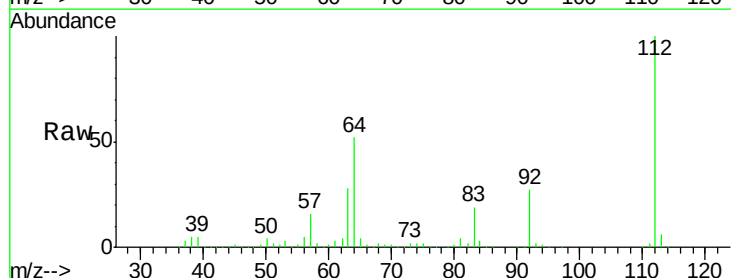
SOHIL  
7/13/2016 9:26:17 AM

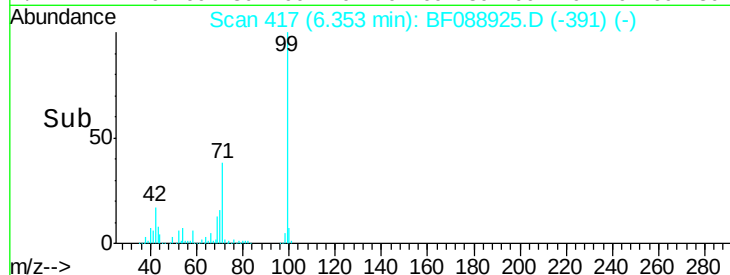
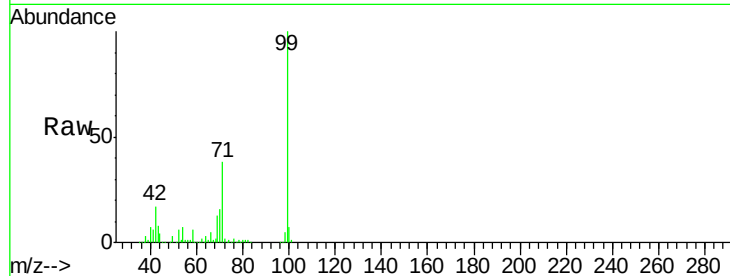
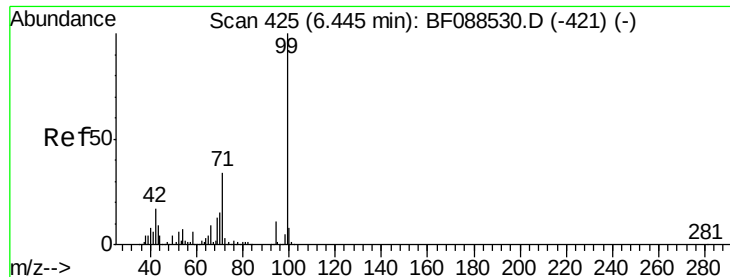


#5

2-Fluorophenol  
Concen: 107.92 ng  
RT: 5.30 min Scan# 325  
Delta R.T. 0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.9  | 42.2  | 63.2  |
| 63      | 27.6  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 107.06 ng

RT: 6.35 min Scan# 417

Delta R.T. 0.00 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

Instrument :

BNA\_F

ClientSampleId :

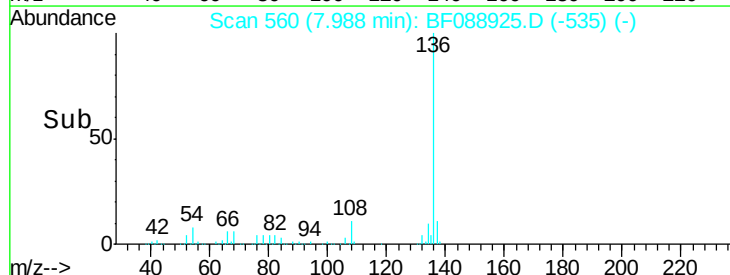
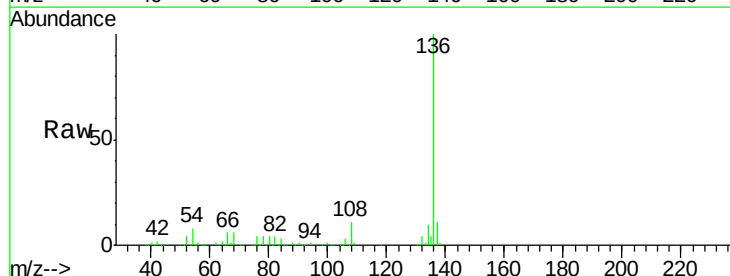
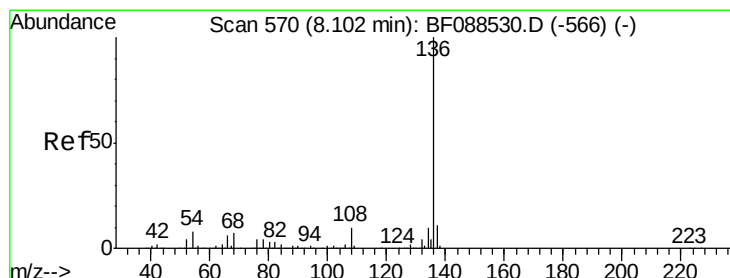
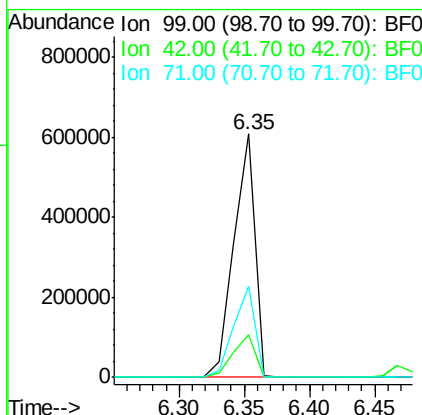
SS-7

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 675703 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 17.4  | 12.2  | 18.2   |
| 71       | 37.8  | 23.4  | 35.0   |

Manual Integrations

SOHIL

7/13/2016 9:26:17 AM



#21

Naphthalene-d8

Concen: 20.00 ng

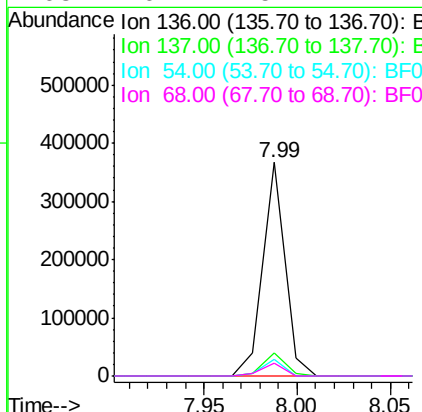
RT: 7.99 min Scan# 560

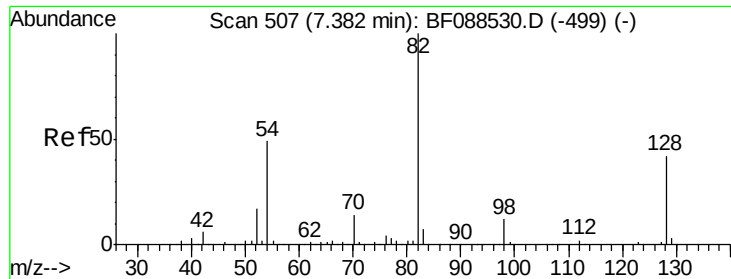
Delta R.T. -0.01 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 299814 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.1   | 13.7   |
| 54       | 7.7   | 6.6   | 10.0   |
| 68       | 6.2   | 5.1   | 7.7    |





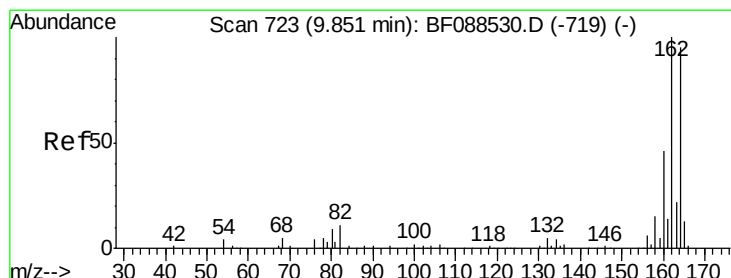
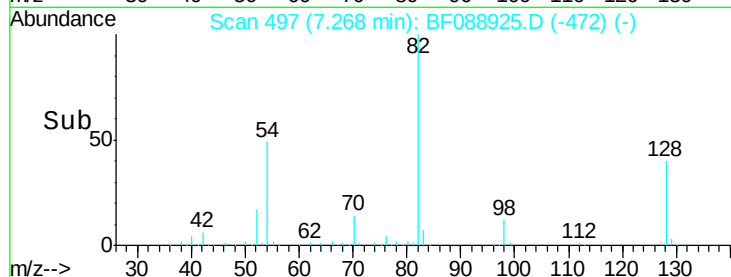
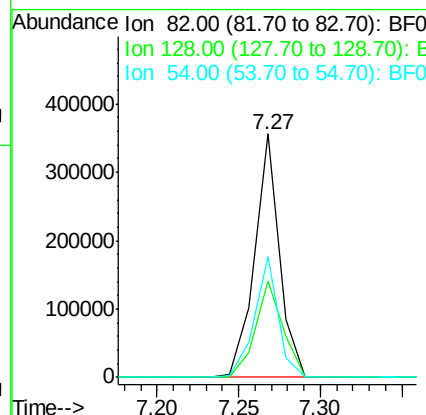
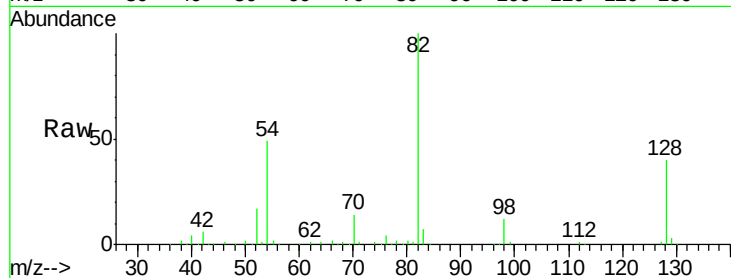
#23  
 Nitrobenzene-d5  
 Concen: 65.59 ng  
 RT: 7.27 min Scan# 497  
 Delta R.T. -0.01 min  
 Lab File: BF088925.D  
 Acq: 12 Jul 2016 15:54

Instrument :  
 BNA\_F  
 ClientSampled :  
 SS-7

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 375223 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 39.6  | 35.9  | 53.9   |
| 54        | 49.4  | 40.9  | 61.3   |

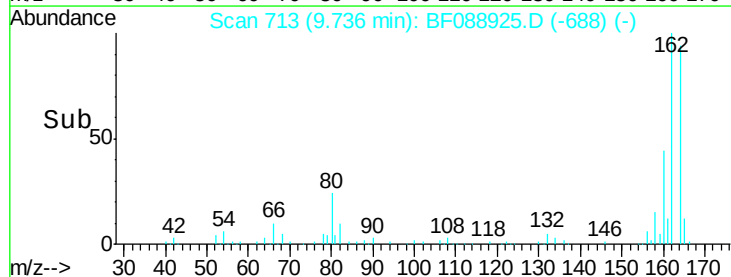
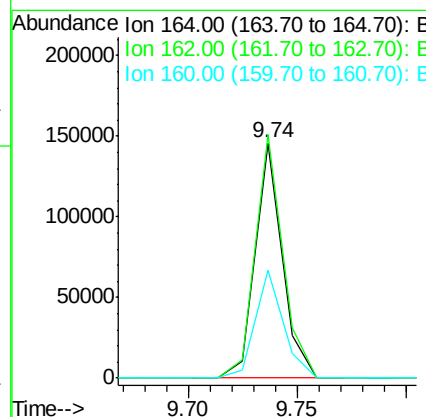
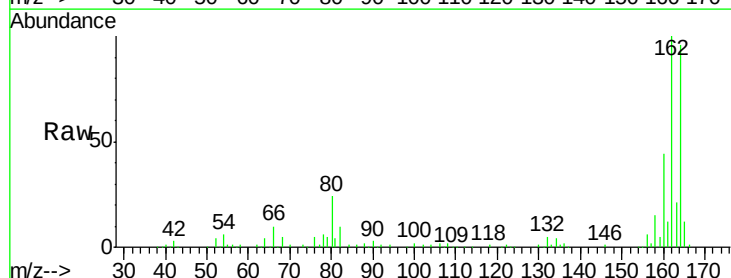
Manual Integrations

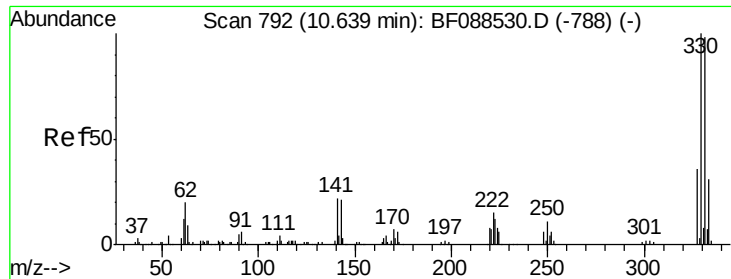
SOHIL  
 7/13/2016 9:26:17 AM



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.74 min Scan# 713  
 Delta R.T. -0.01 min  
 Lab File: BF088925.D  
 Acq: 12 Jul 2016 15:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 125413 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 103.7 | 85.4  | 128.2  |
| 160       | 45.9  | 39.5  | 59.3   |





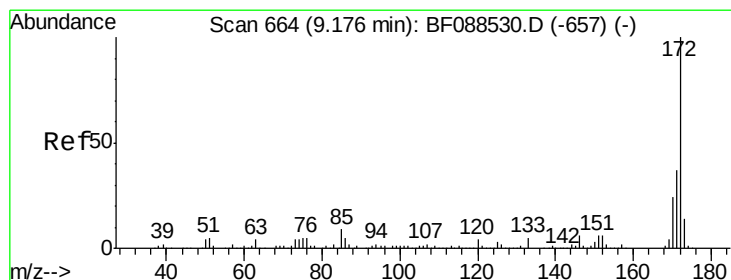
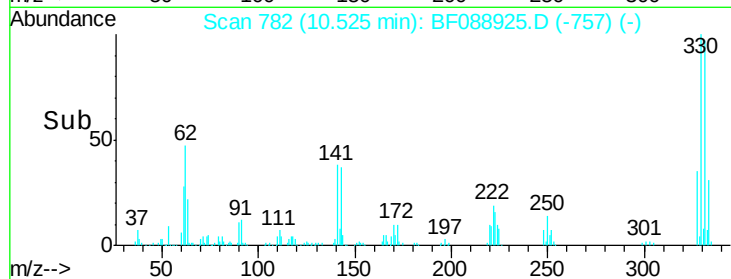
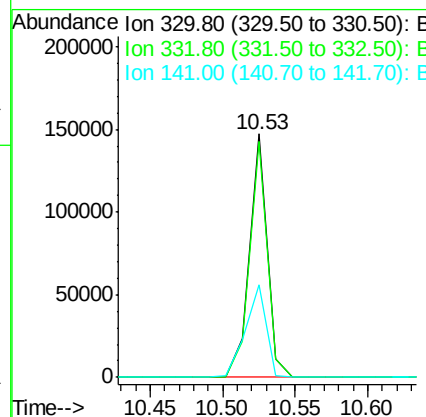
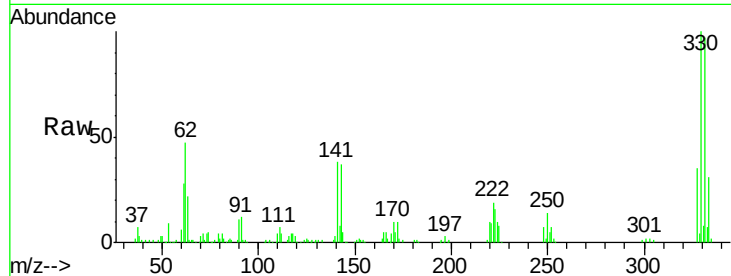
#41  
 2,4,6-Tribromophenol  
 Concen: 107.83 ng  
 RT: 10.53 min Scan# 782  
 Delta R.T. -0.01 min  
 Lab File: BF088925.D  
 Acq: 12 Jul 2016 15:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-7

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 125582 |       |       |
| 332     | 96.5  | 0.0    | 0.0   | 0.0   |
| 141     | 43.9  | 0.0    | 0.0   | 0.0   |

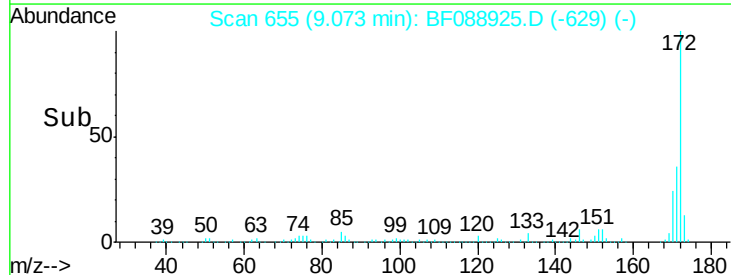
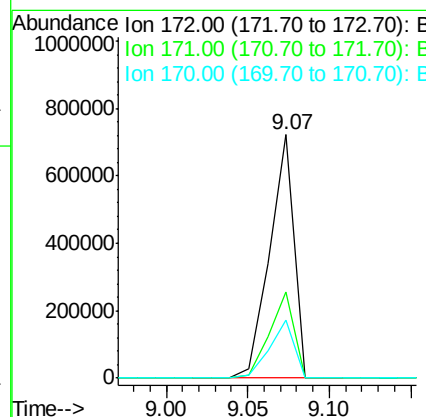
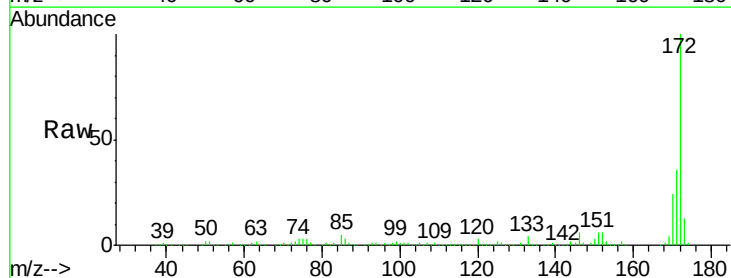
Manual Integrations

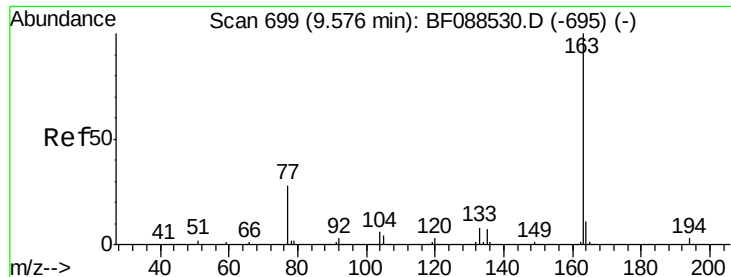
SOHIL  
 7/13/2016 9:26:17 AM



#44  
 2-Fluorobiphenyl  
 Concen: 94.45 ng  
 RT: 9.07 min Scan# 655  
 Delta R.T. 0.00 min  
 Lab File: BF088925.D  
 Acq: 12 Jul 2016 15:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 749933 |       |       |
| 171     | 35.6  | 28.6   | 43.0  |       |
| 170     | 23.6  | 19.2   | 28.8  |       |





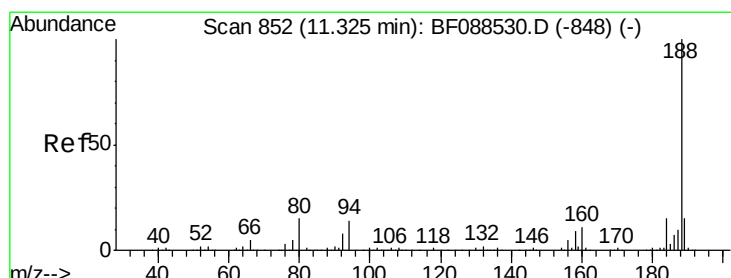
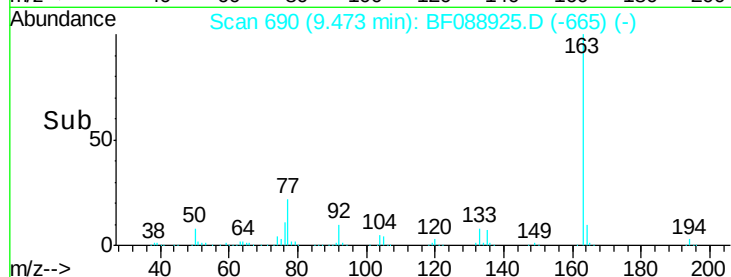
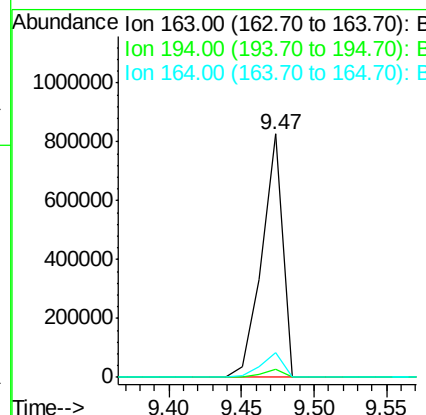
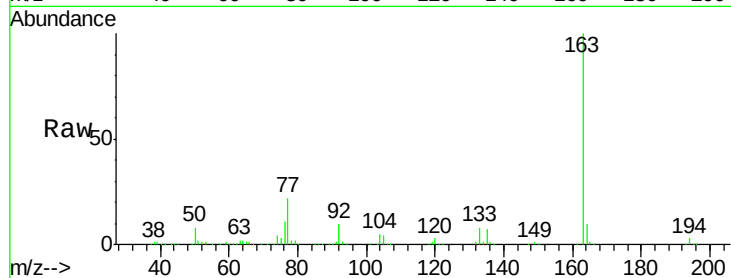
#49  
Dimethylphthalate  
Concen: 92.01 ng  
RT: 9.47 min Scan# 690  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 2.8   | 4.2   |
| 164     | 10.1  | 8.3   | 12.5  |

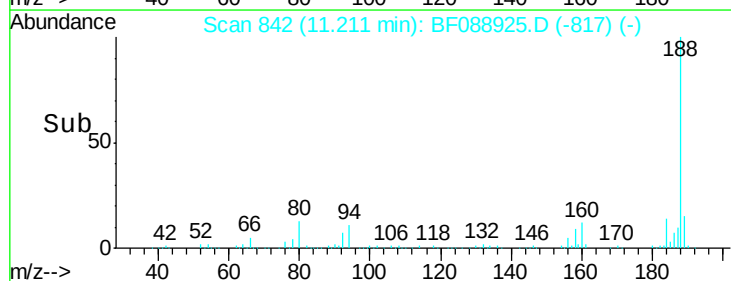
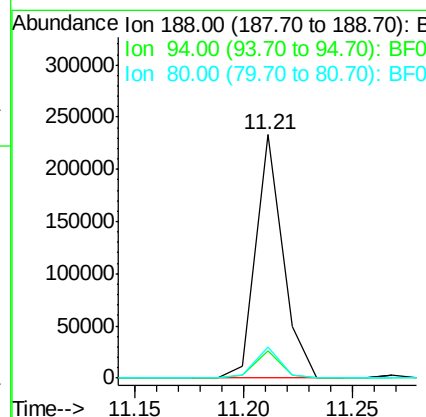
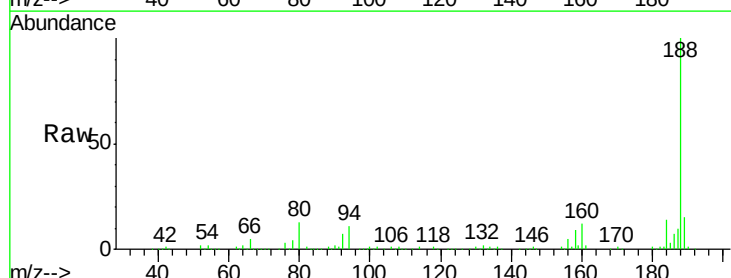
Manual Integrations

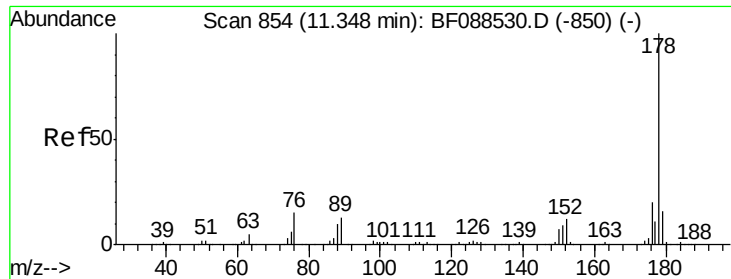
APPROVED  
SOHIL  
7/13/2016 9:26:17 AM



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.21 min Scan# 842  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.1  | 9.0   | 13.6  |
| 80      | 12.9  | 10.0  | 15.0  |





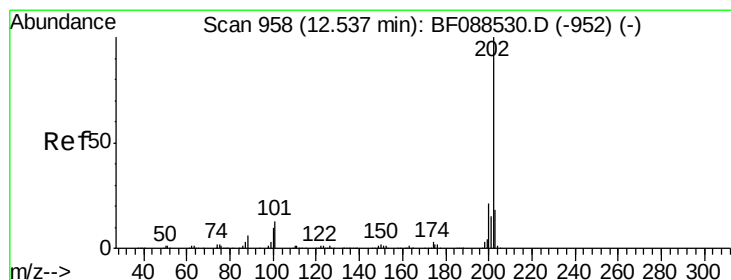
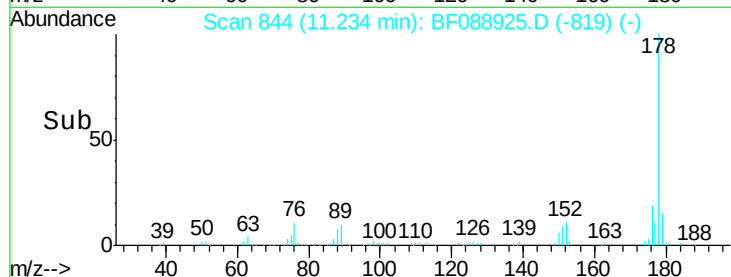
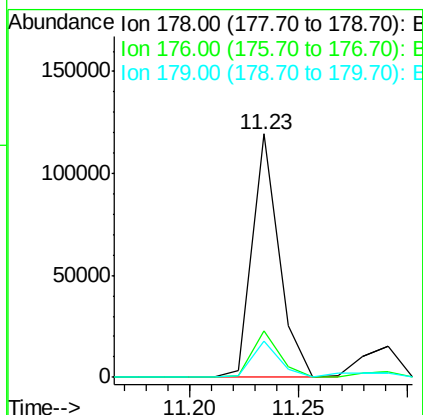
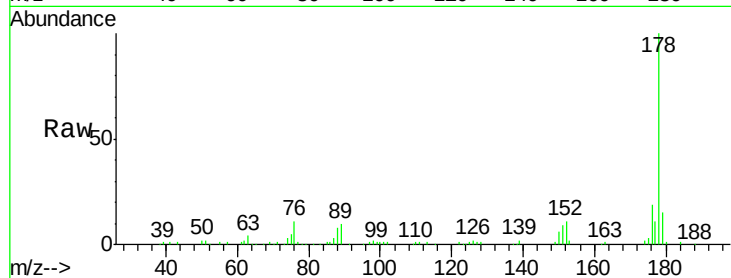
#70  
Phenanthrene  
Concen: 9.27 ng  
RT: 11.23 min Scan# 844  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS-7

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 178     | 100  |       |       |       |
| 176     | 18.9 | 15.8  | 23.6  |       |
| 179     | 15.1 | 13.0  | 19.4  |       |

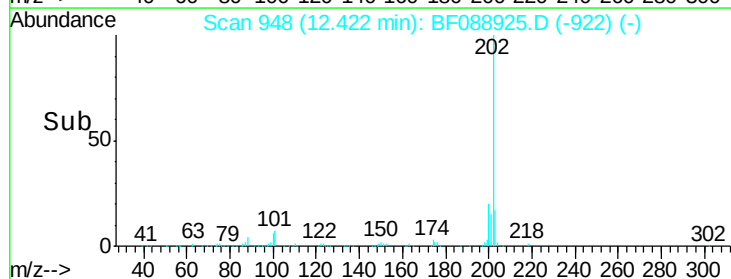
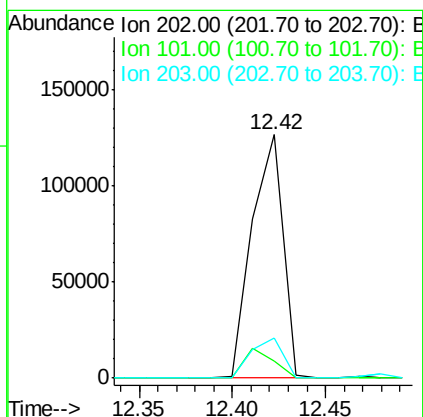
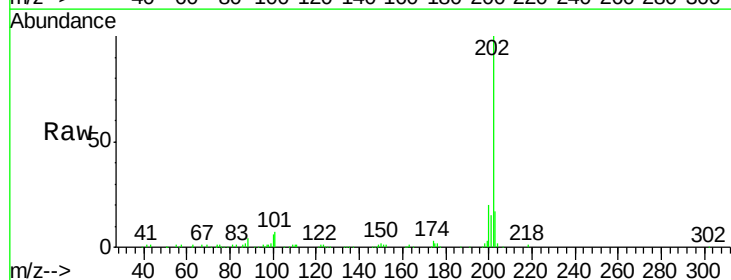
Manual Integrations

SOHIL  
7/13/2016 9:26:17 AM

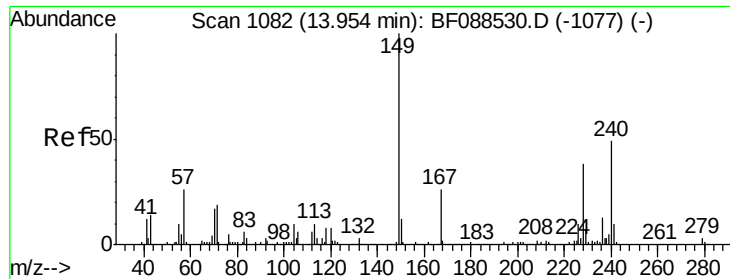


#74  
Fluoranthene  
Concen: 13.04 ng  
RT: 12.42 min Scan# 948  
Delta R.T. 0.00 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 202     | 100  |       |       |       |
| 101     | 7.0  | 0.0   | 33.1  |       |
| 203     | 16.7 | 0.0   | 38.1  |       |







#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

Instrument :

BNA\_F

ClientSampleId :

SS-7

Tot Ion:240 Resp: 150145

Ion Ratio Lower Upper

240 100

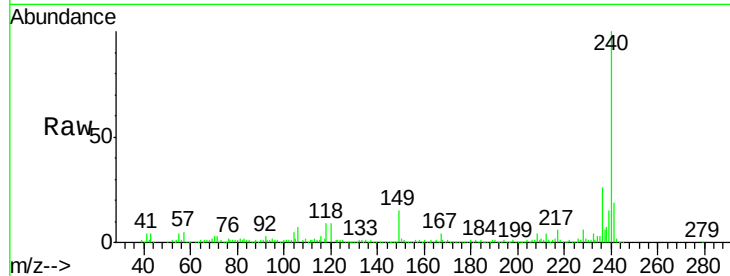
120 9.1 6.8 10.2

236 25.7 20.2 30.2

Manual Integrations

SOHIL

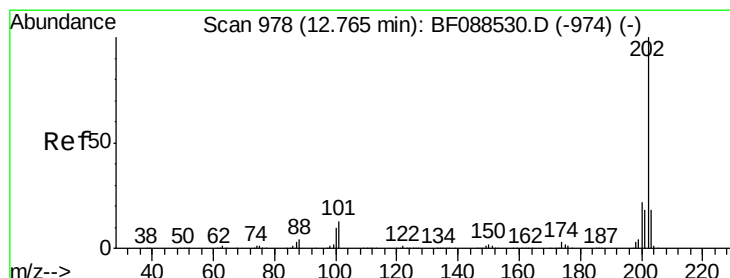
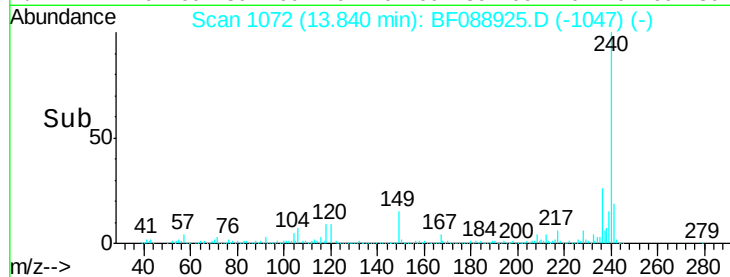
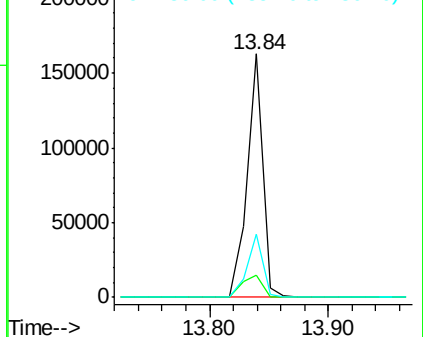
7/13/2016 9:26:17 AM



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

Pyrene

Concen: 9.27 ng

RT: 12.64 min Scan# 967

Delta R.T. -0.01 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

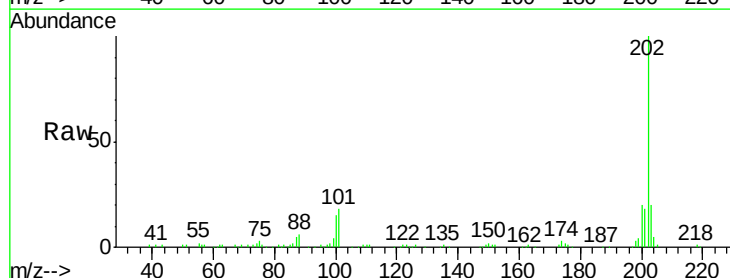
Tgt Ion:202 Resp: 118075

Ion Ratio Lower Upper

202 100

200 20.4 17.4 26.2

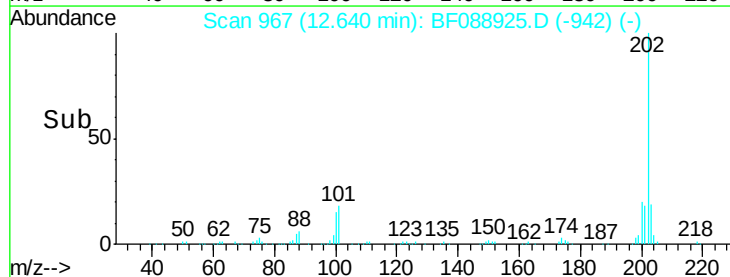
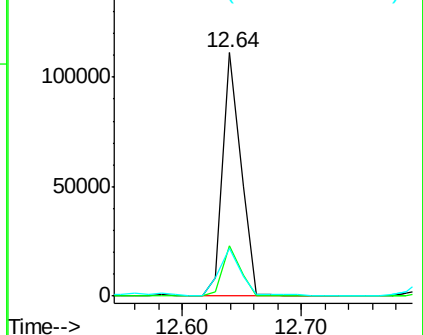
203 19.8 14.5 21.7

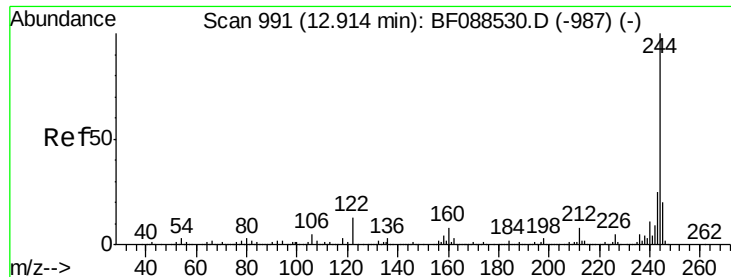


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 64.77 ng

RT: 12.80 min Scan# 981

Delta R.T. 0.00 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

Instrument :

BNA\_F

ClientSampleId :

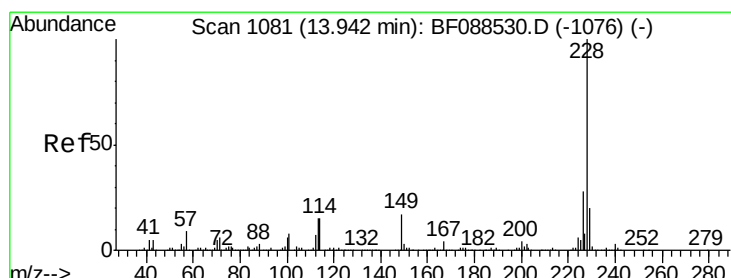
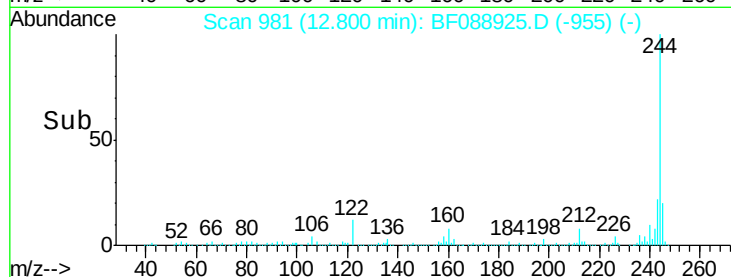
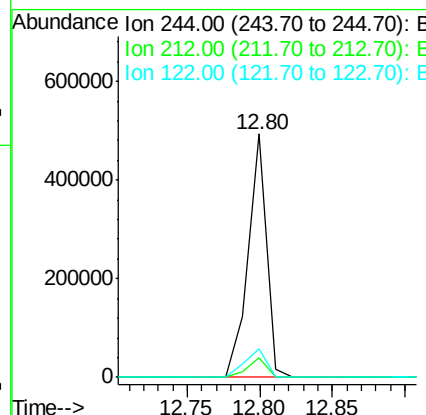
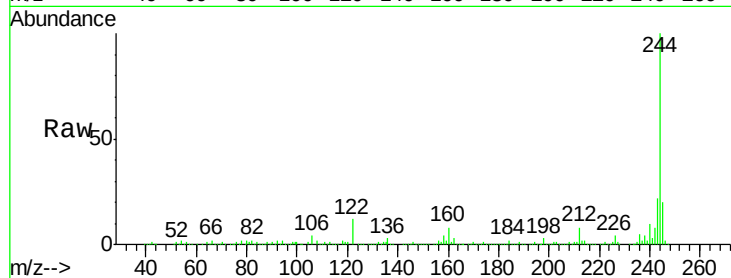
SS-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.8   | 6.0   | 9.0   |
| 122     | 11.6  | 11.2  | 16.8  |

Manual Integrations

SOHIL

7/13/2016 9:26:17 AM



#80

Benzo(a)anthracene

Concen: 6.28 ng

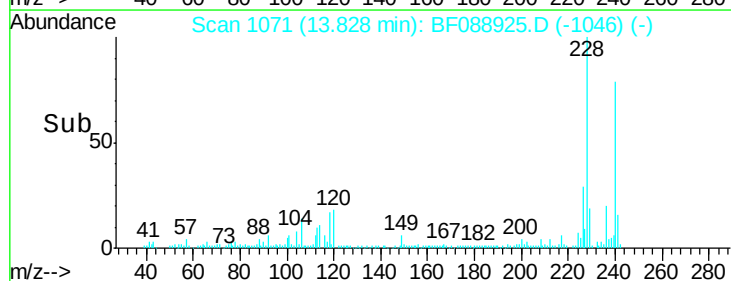
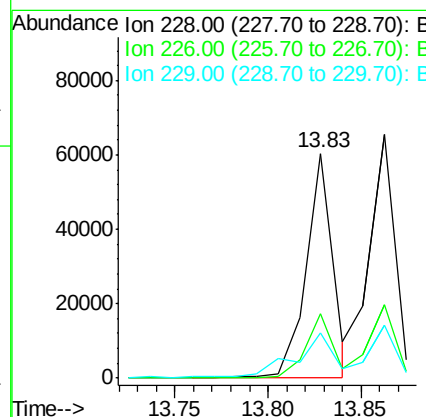
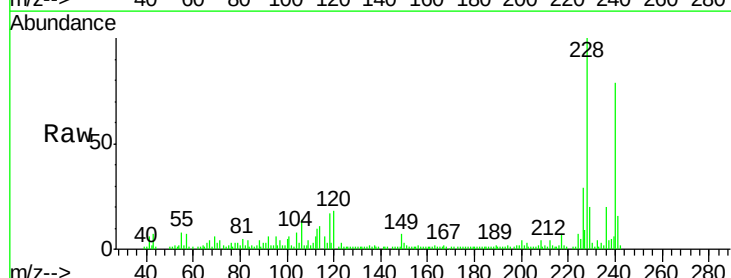
RT: 13.83 min Scan# 1071

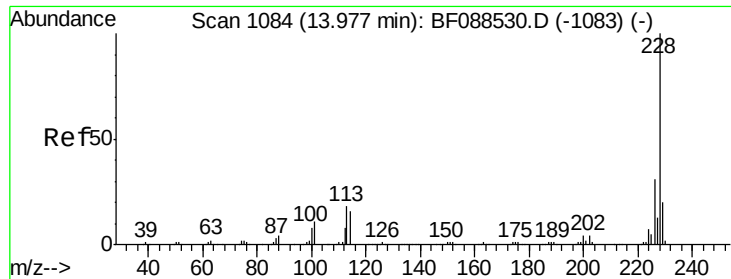
Delta R.T. -0.01 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 22.3  | 33.5  |
| 229     | 20.2  | 16.0  | 24.0  |





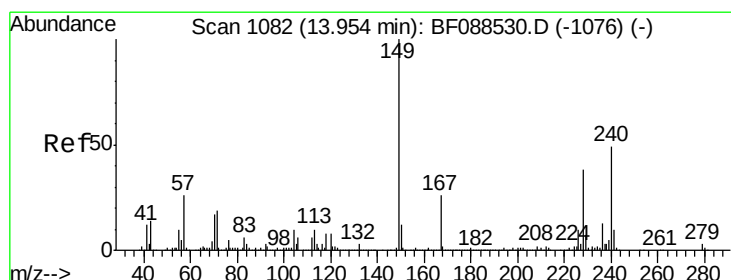
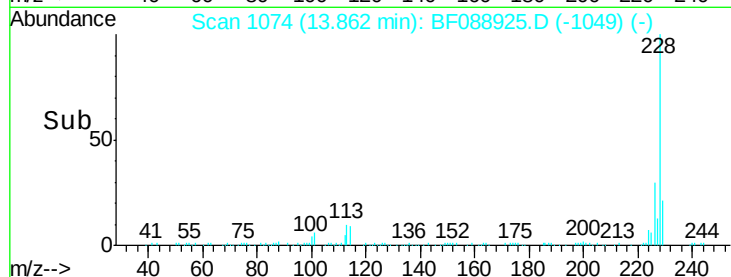
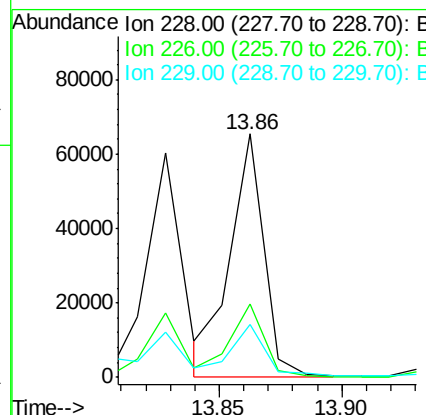
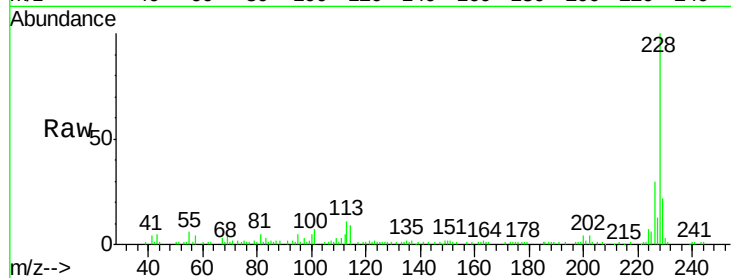
#82  
Chrysene  
Concen: 6.50 ng/ml  
RT: 13.86 min Scan# 1074  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 25.4  | 38.2  |
| 229     | 21.8  | 16.3  | 24.5  |

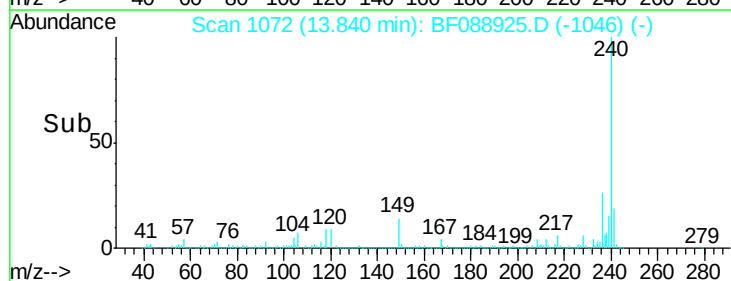
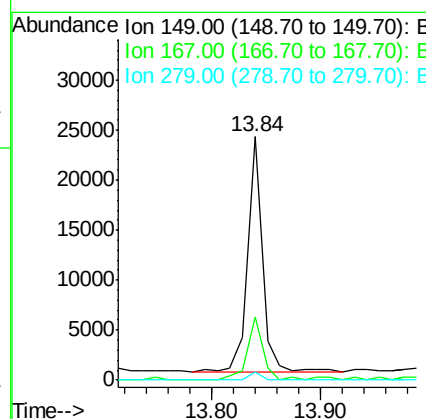
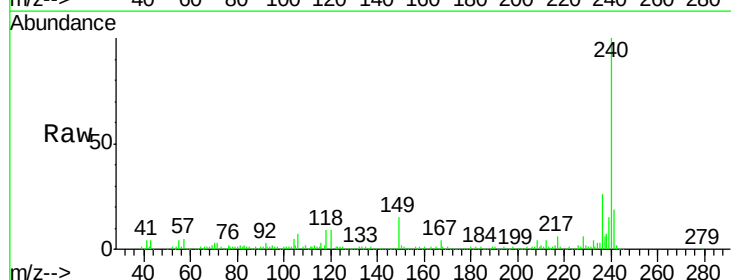
Manual Integrations

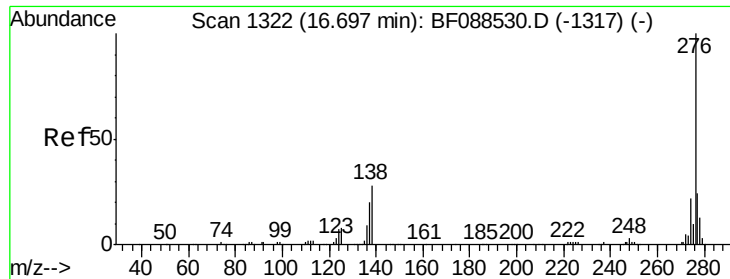
APPROVED  
SOHIL  
7/13/2016 9:26:17 AM



#83  
Bis(2-ethylhexyl)phthalate  
Concen: 3.41 ng  
RT: 13.84 min Scan# 1072  
Delta R.T. 0.00 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.9  | 20.5  | 30.7  |
| 279     | 3.1   | 2.0   | 3.0#  |





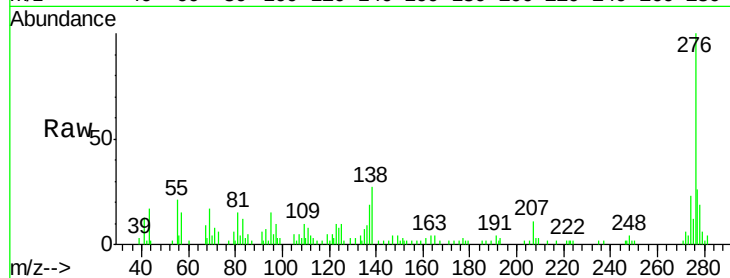
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.32 ng  
RT: 16.49 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

Instrument :  
BNA\_F  
ClientSampled :  
SS-7

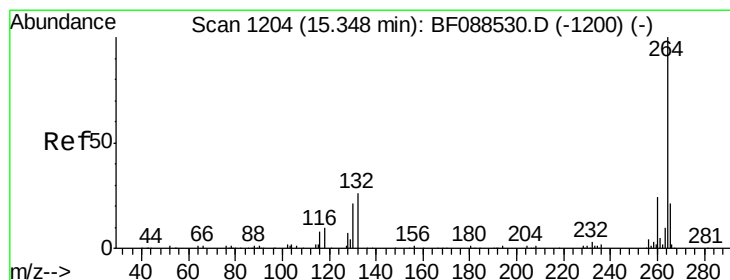
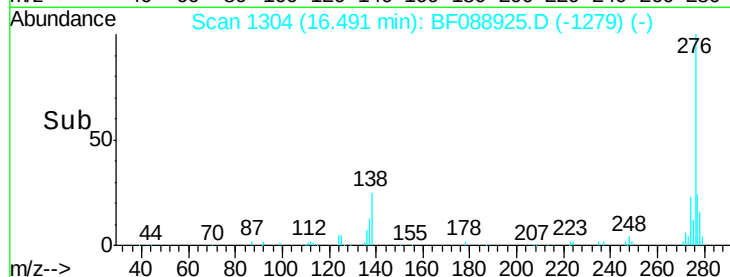
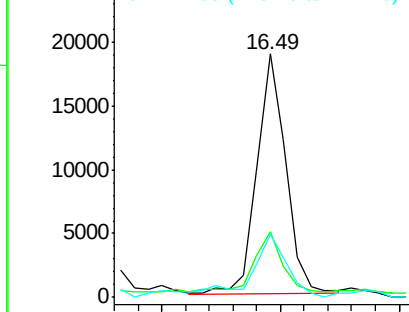
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.5  | 0.0   | 0.0#  |
| 277     | 35.7  | 0.0   | 0.0#  |

Manual Integrations

APPROVED  
SOHIL  
7/13/2016 9:26:17 AM

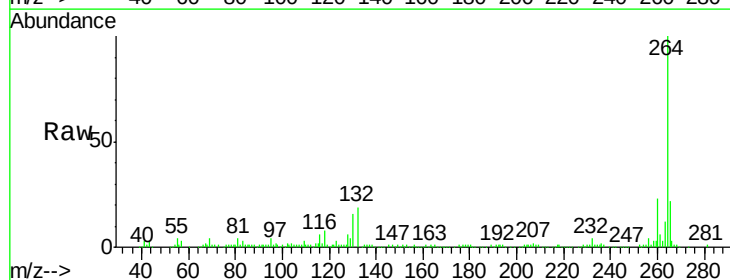


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

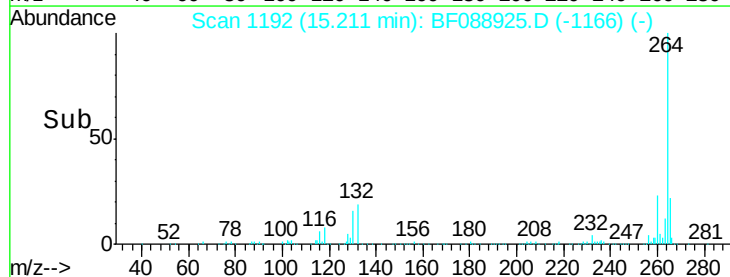
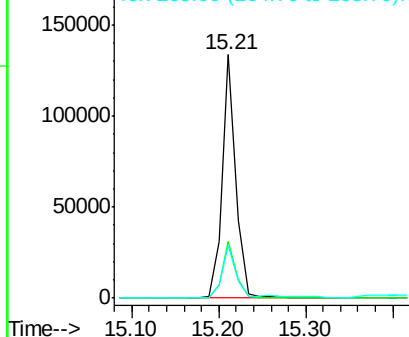


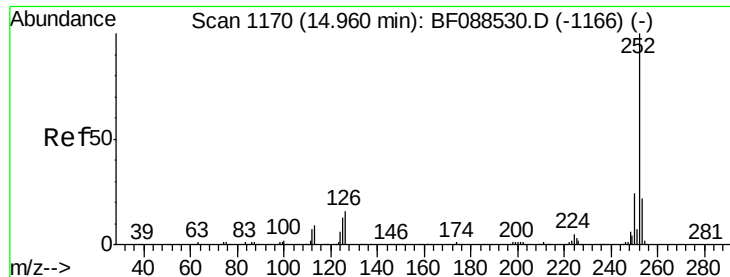
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.21 min Scan# 1192  
Delta R.T. 0.00 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.2  | 28.8  |
| 265     | 21.7  | 16.9  | 25.3  |



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: 8.90 ng m

RT: 14.83 min Scan# 1159

Delta R.T. 0.00 min

Lab File: BF088925.D

Acq: 12 Jul 2016 15:54

Instrument :

BNA\_F

ClientSampleId :

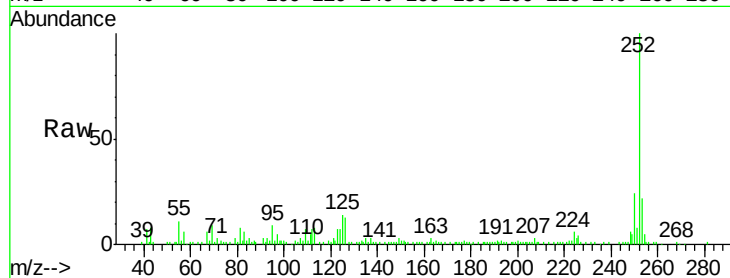
SS-7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 82112 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.5  | 17.4  | 26.2  |
| 125       | 13.9  | 7.1   | 10.7# |

Manual Integrations

SOHIL

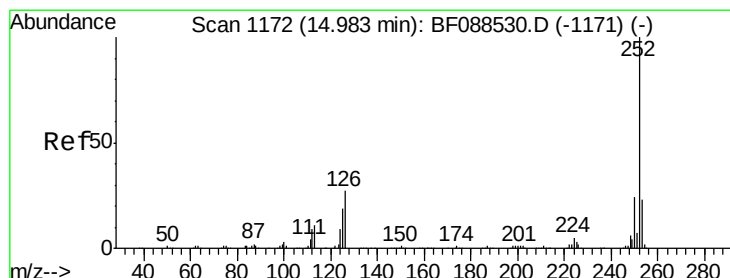
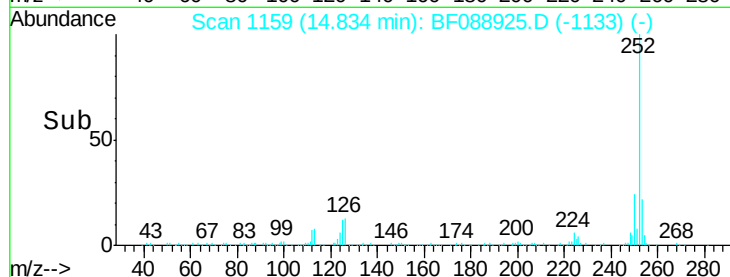
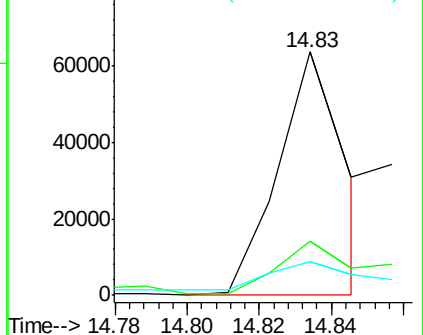
7/13/2016 9:26:17 AM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 3.41 ng m

RT: 14.86 min Scan# 1161

Delta R.T. -0.01 min

Lab File: BF088925.D

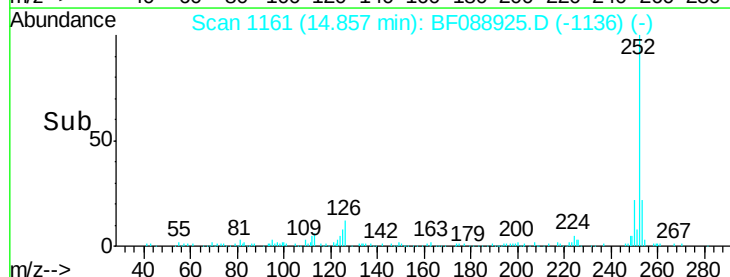
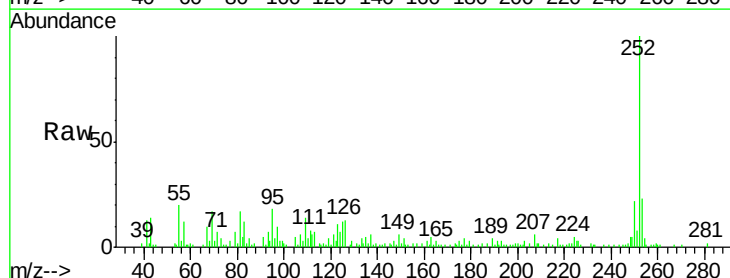
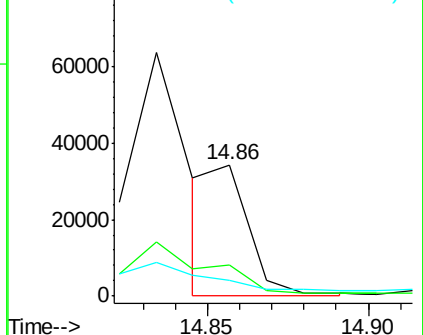
Acq: 12 Jul 2016 15:54

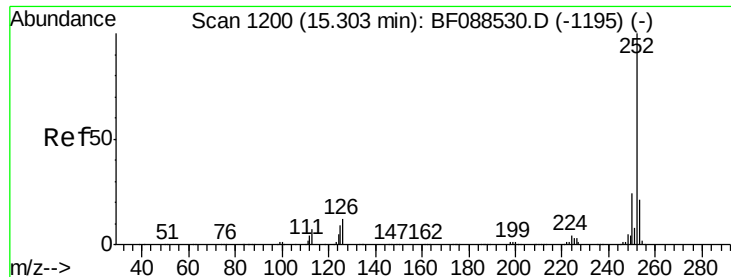
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 27357 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 18.0  | 27.0  |
| 125       | 12.4  | 11.2  | 16.8  |

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





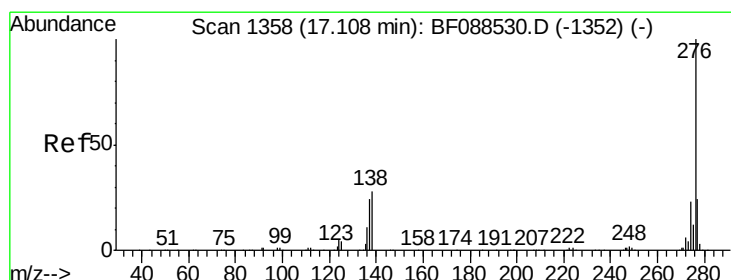
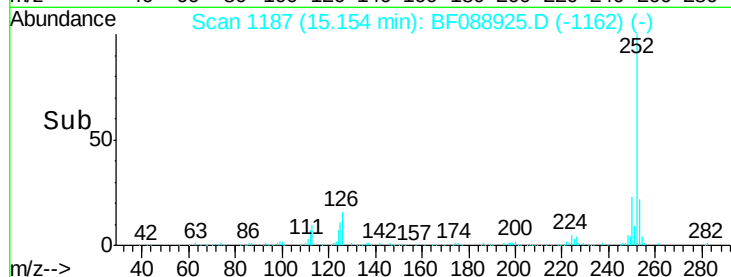
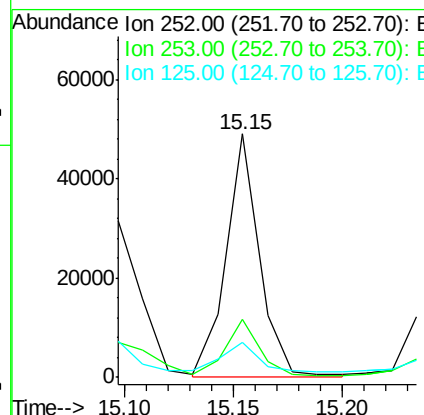
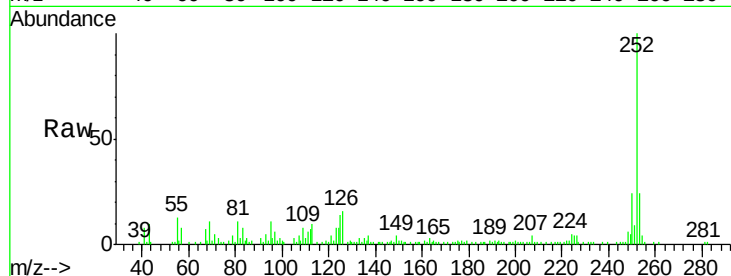
#89  
Benzo(a)pyrene  
Concen: 6.74 ng  
RT: 15.15 min Scan# 1187  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

Instrument :  
BNA\_F  
ClientSampleId :  
SS-7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 52659 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.6  | 17.9  | 26.9  |
| 125       | 14.2  | 12.5  | 18.7  |

Manual Integrations

SOHIL  
7/13/2016 9:26:17 AM



#91  
Benzo(g,h,i)perylene  
Concen: 4.26 ng  
RT: 16.88 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BF088925.D  
Acq: 12 Jul 2016 15:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 28774 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 28.1  | 18.9  | 28.3  |
| 138       | 23.0  | 21.4  | 32.2  |

