

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\  
 Data File : BF101341.D  
 Acq On : 12 Dec 2017 20:26  
 Operator : SJ/JU  
 Sample : I6822-09 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-9(0-2)

Manual Integrations  
 APPROVED

Sohil  
 12/13/2017 12:07:49 PM

Quant Time: Dec 13 03:43:36 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 08 18:17:31 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 41847    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.10  | 136  | 159317   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.86  | 164  | 67719    | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.36 | 188  | 118671   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 14.01 | 240  | 103211   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 15.49 | 264  | 97126    | 20.00  | ng    | 0.02        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.44  | 112  | 130422   | 51.50  | ng    | 0.00        |
| 7) Phenol-d6                | 6.46  | 99   | 160451   | 52.19  | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 99678    | 37.32  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 34178    | 42.01  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.17  | 172  | 203812   | 41.18  | ng    | -0.01       |
| 78) Terphenyl-d14           | 12.94 | 244  | 172763   | 36.61  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 49) Dimethylphthalate       | 9.57  | 163  | 24608    | 4.506  | ng    | Qvalue # 97 |
| 51) Acenaphthene            | 9.89  | 154  | 10689    | 2.465  | ng    | 96          |
| 57) Fluorene                | 10.41 | 166  | 10587    | 2.084  | ng    | 99          |
| 70) Phenanthrene            | 11.38 | 178  | 176930   | 27.074 | ng    | 97          |
| 71) Anthracene              | 11.43 | 178  | 41082    | 6.211  | ng    | 98          |
| 74) Fluoranthene            | 12.57 | 202  | 290508   | 40.103 | ng    | 95          |
| 77) Pyrene                  | 12.80 | 202  | 283749   | 39.842 | ng    | 99          |
| 80) Benzo(a)anthracene      | 14.00 | 228  | 146978m  | 22.554 | ng    |             |
| 82) Chrysene                | 14.03 | 228  | 135889m  | 22.453 | ng    |             |
| 85) Indeno(1,2,3-cd)pyrene  | 16.97 | 276  | 74365    | 13.821 | ng    | # 89        |
| 87) Benzo(b)fluoranthene    | 15.06 | 252  | 153431m  | 26.374 | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.08 | 252  | 55548m   | 9.691  | ng    |             |
| 89) Benzo(a)pyrene          | 15.42 | 252  | 123696   | 23.388 | ng    | 95          |
| 90) Dibenzo(a,h)anthracene  | 16.97 | 278  | 23056m   | 4.945  | ng    |             |
| 91) Benzo(a,h,i)perylene    | 17.43 | 276  | 73631    | 16.757 | ng    | # 90        |

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

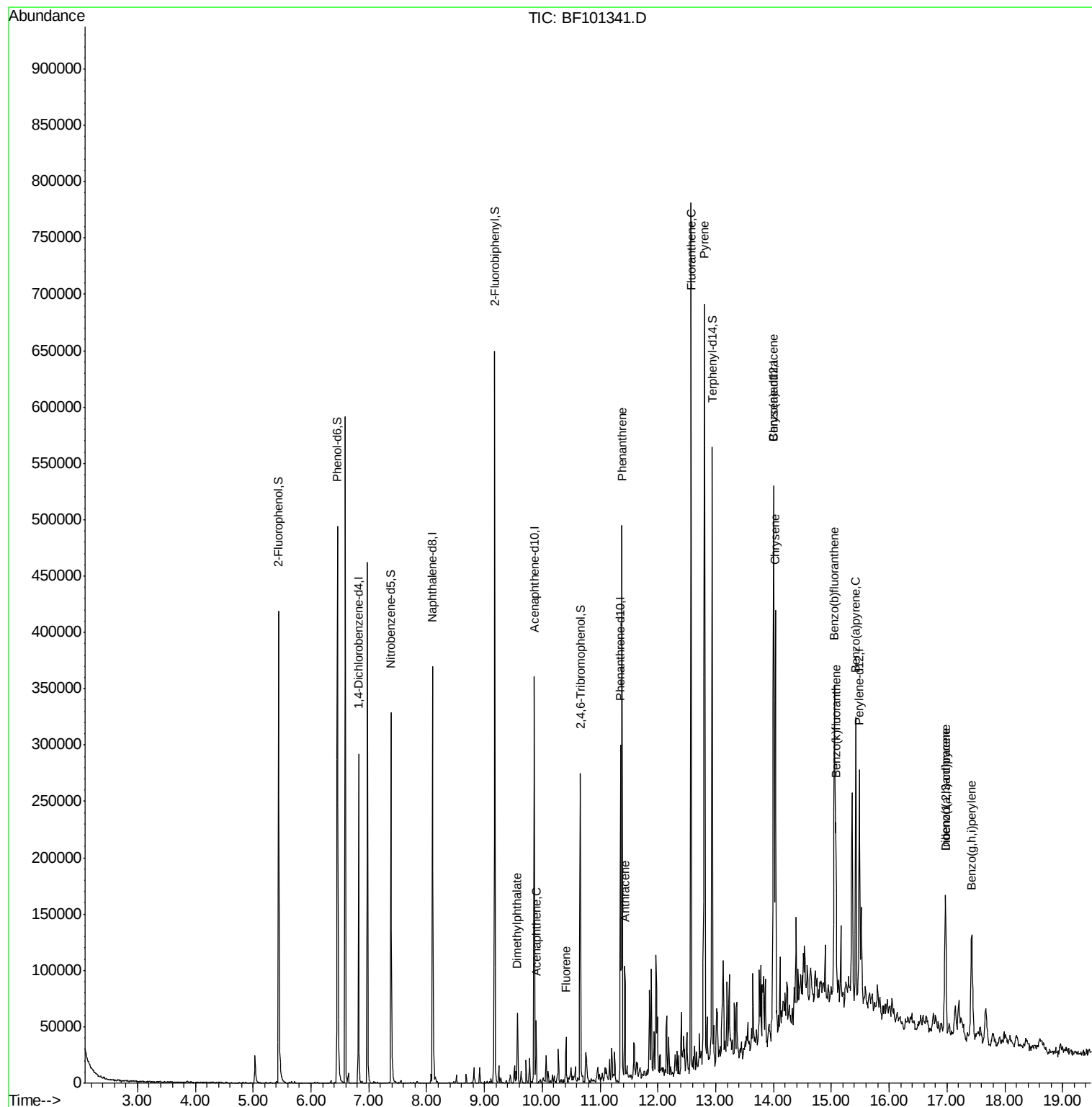
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\  
Data File : BF101341.D  
Acq On : 12 Dec 2017 20:26  
Operator : SJ/JU  
Sample : I6822-09 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

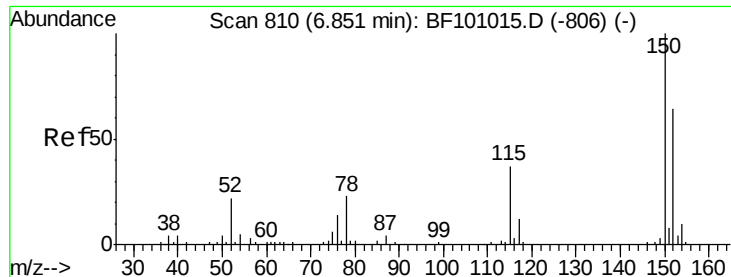
Instrument :  
BNA\_F  
ClientSampleId :  
SB-9(0-2)

Manual Integrations  
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12/13/2017 12:07:49 PM

Quant Time: Dec 13 03:43:36 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 08 18:17:31 2017  
Response via : Initial Calibration





#1

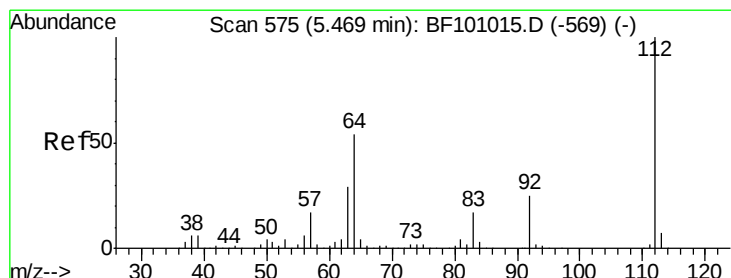
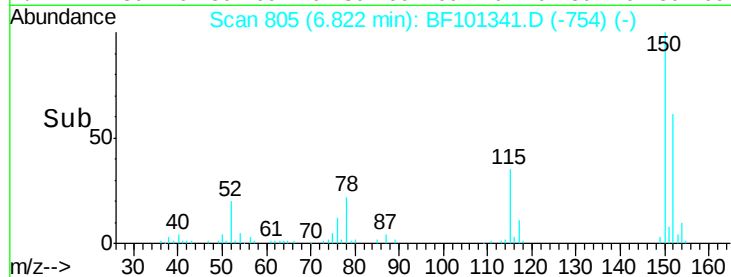
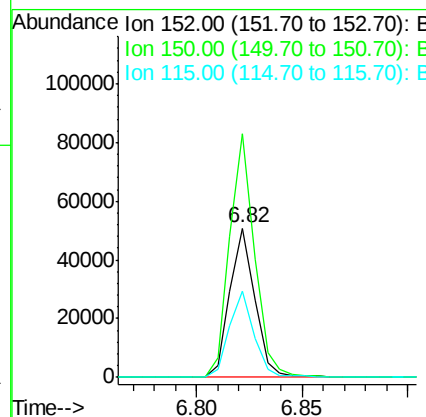
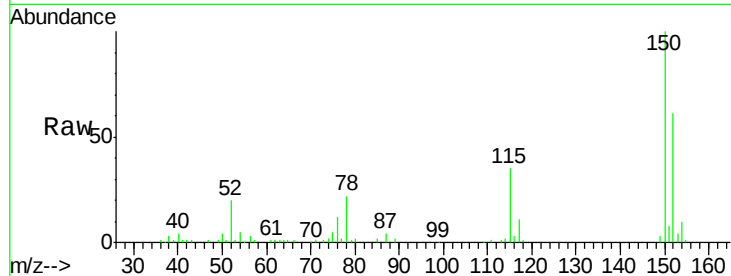
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 163.4 | 124.6 | 186.8 |
| 115     | 57.8  | 50.1  | 75.1  |

Manual Integrations  
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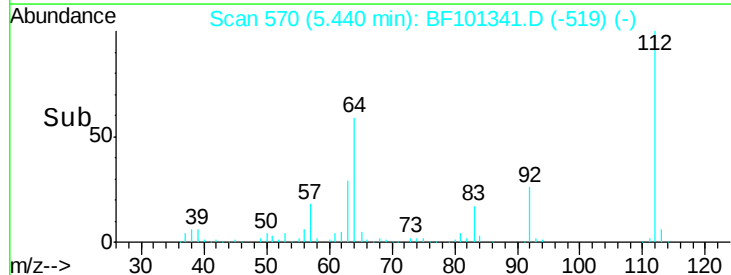
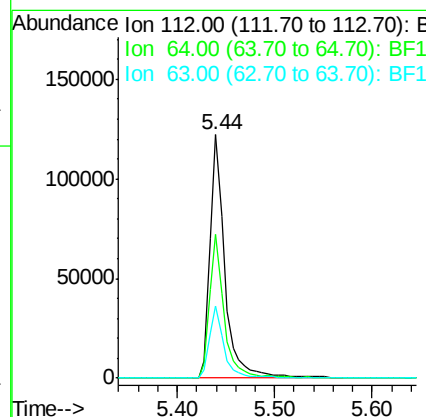
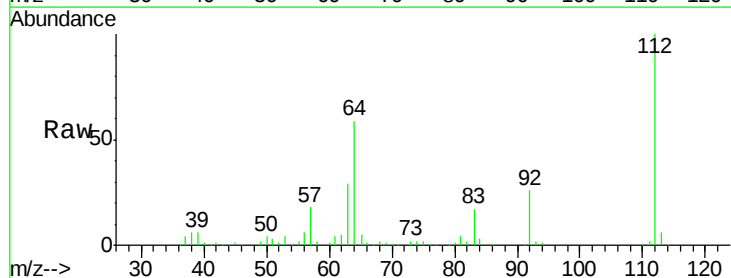
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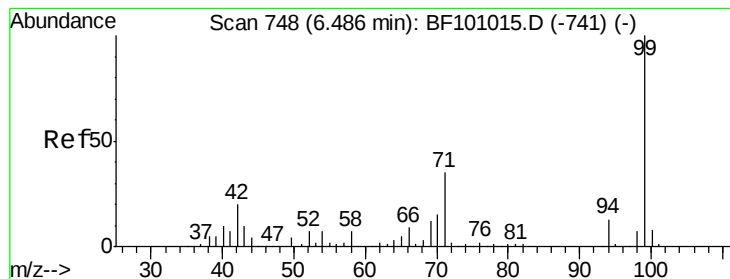


#5

2-Fluorophenol  
Concen: 51.501 ng  
RT: 5.44 min Scan# 570  
Delta R.T. 0.00 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.3  | 47.9  | 71.9  |
| 63      | 29.5  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 52.186 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

Instrument :

BNA\_F

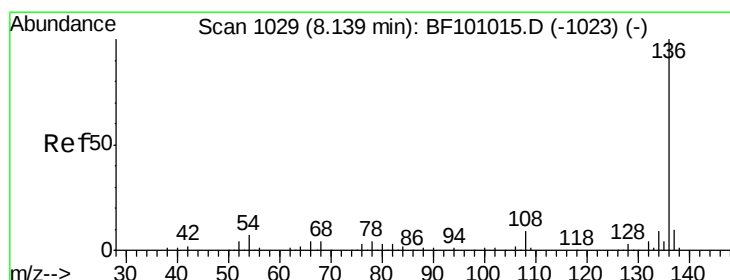
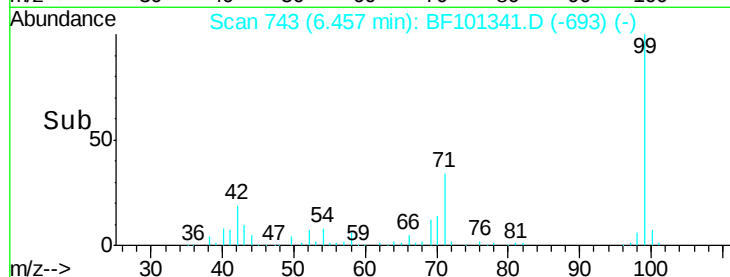
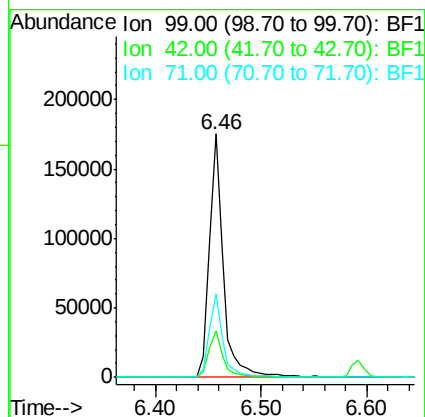
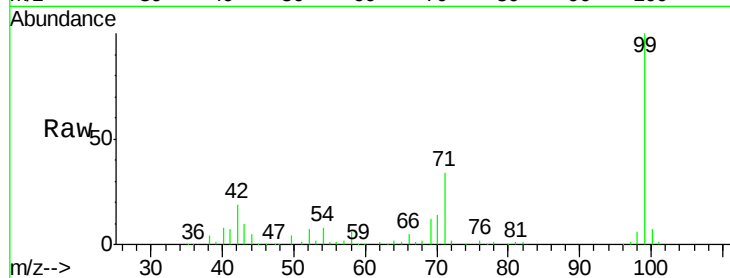
ClientSampleId :

SB-9(0-2)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 160451 |       |       |
| 42      | 19.2 | 14.5  | 21.7   |       |       |
| 71      | 34.2 | 25.4  | 38.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

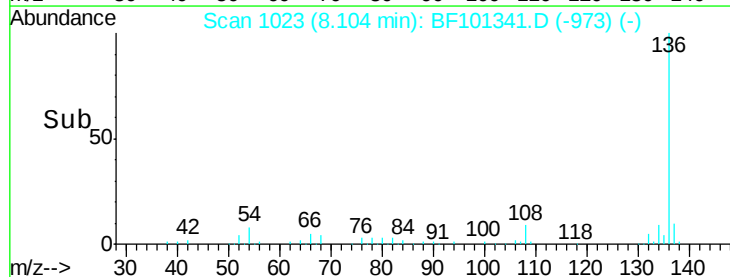
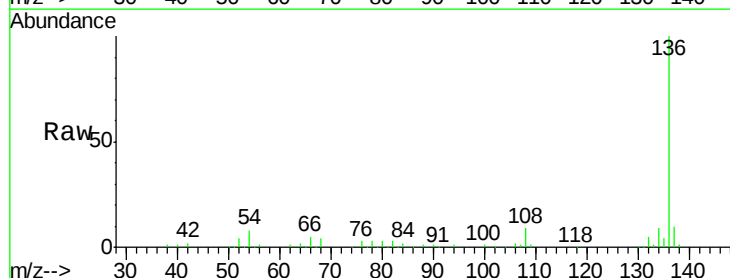
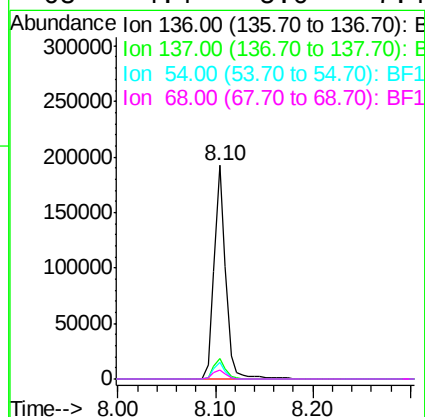
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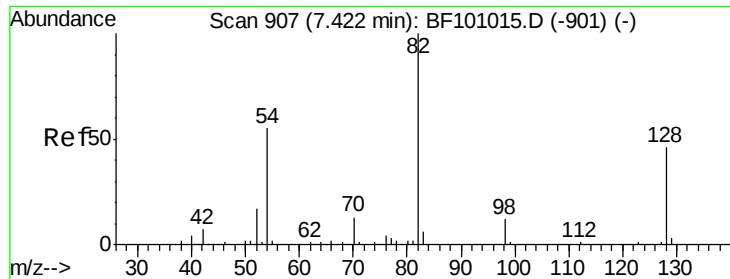
Delta R.T. -0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 136     | 100 |       | 159317 |       |       |
| 137     | 9.9 | 8.9   | 13.3   |       |       |
| 54      | 7.9 | 6.6   | 9.8    |       |       |
| 68      | 4.4 | 5.0   | 7.4#   |       |       |





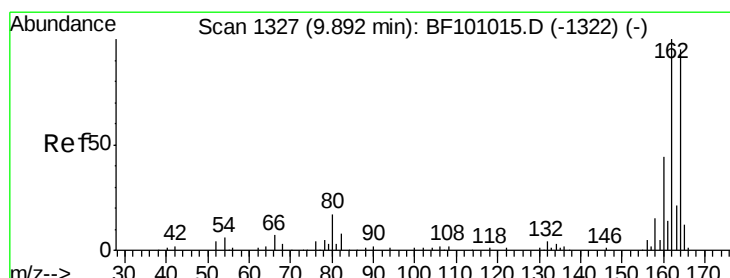
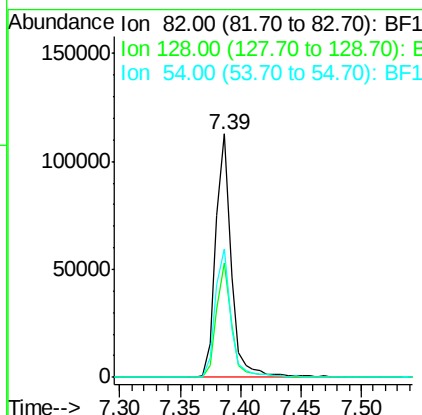
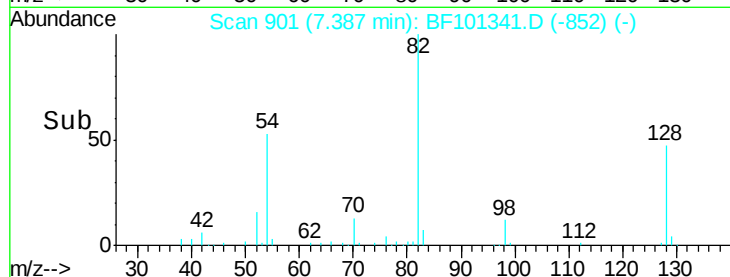
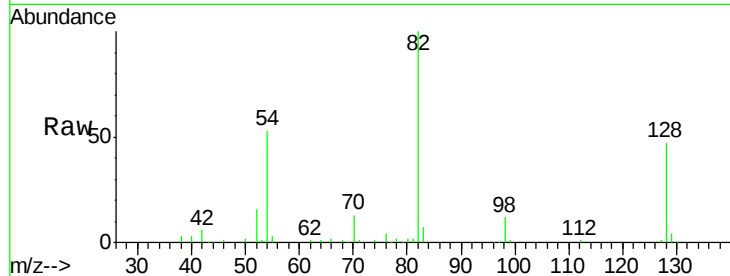
#23  
Nitrobenzene-d5  
Concen: 37.322 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampled :  
SB-9(0-2)

| Tot Ion   | 82   | Resp  | 99678 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 46.8 | 36.1  | 54.1  |
| 54        | 52.8 | 41.4  | 62.2  |

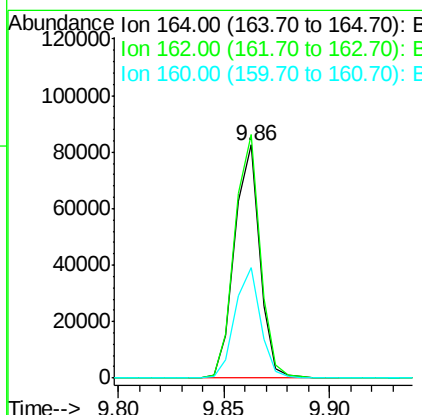
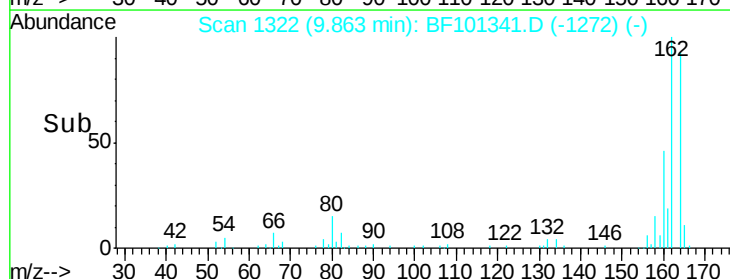
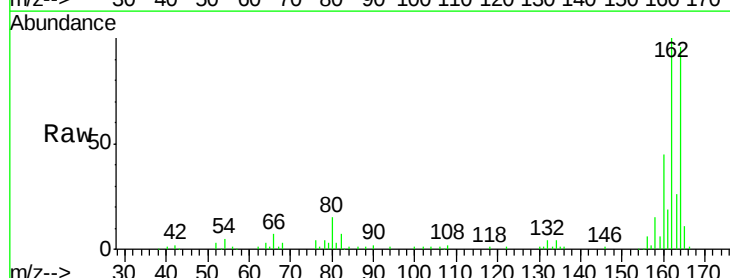
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. -0.01 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion   | 164   | Resp  | 67719 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 162       | 104.5 | 86.1  | 129.1 |
| 160       | 47.5  | 38.3  | 57.5  |





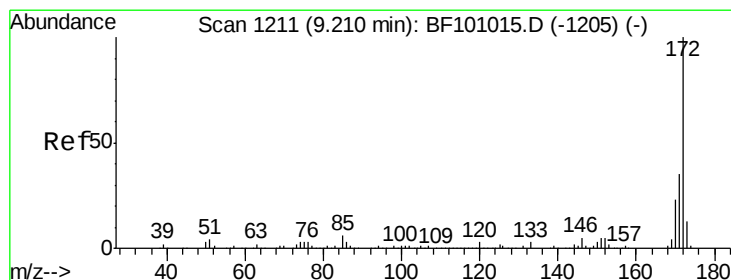
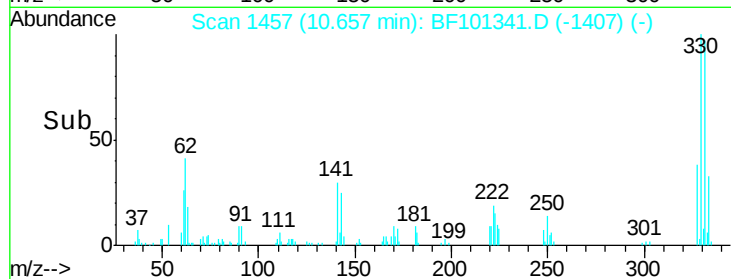
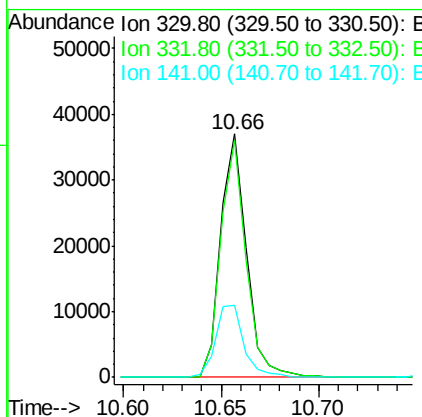
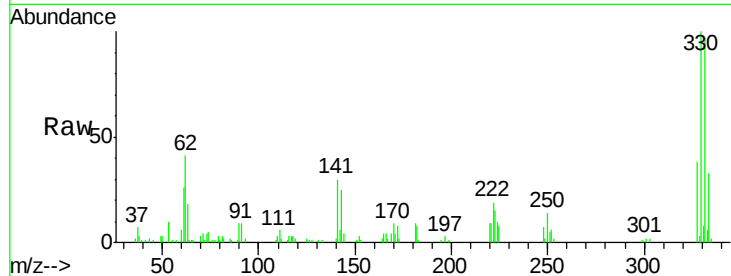
#41  
 2,4,6-Tribromophenol  
 Concen: 42.014 ng  
 RT: 10.66 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: BF101341.D  
 Acq: 12 Dec 2017 20:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-9(0-2)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.4  | 77.0 | 115.6 |       |
| 141     | 31.8  | 29.9 | 44.9  |       |

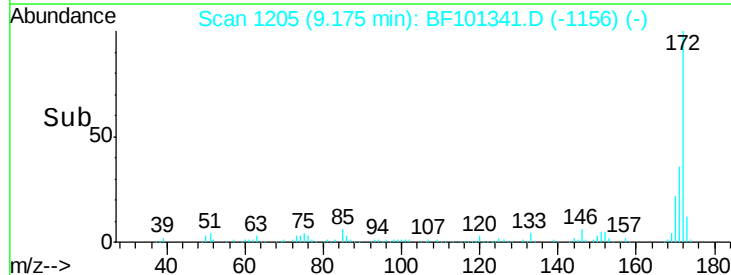
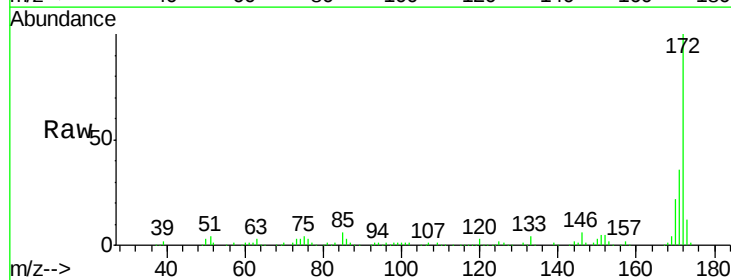
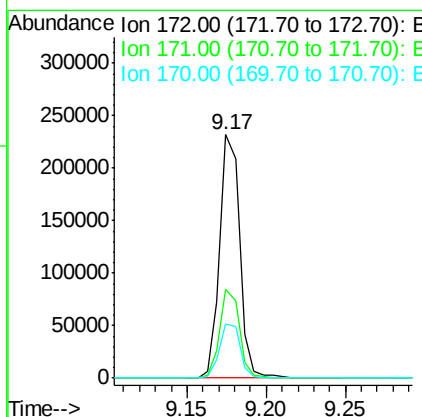
Manual Integrations  
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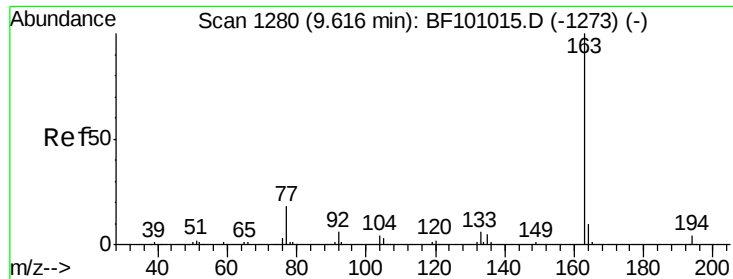
Sohil  
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#44  
 2-Fluorobiphenyl  
 Concen: 41.178 ng  
 RT: 9.17 min Scan# 1205  
 Delta R.T. -0.01 min  
 Lab File: BF101341.D  
 Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 36.2  | 29.7 | 44.5  |       |
| 170     | 22.3  | 19.6 | 29.4  |       |





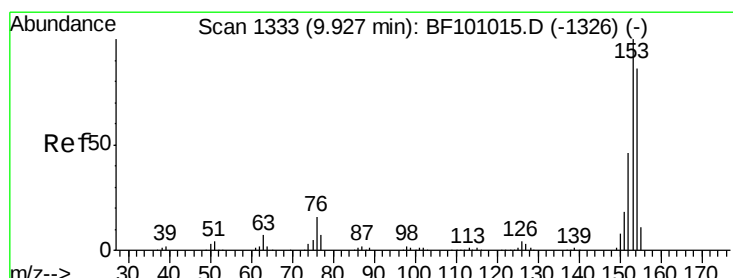
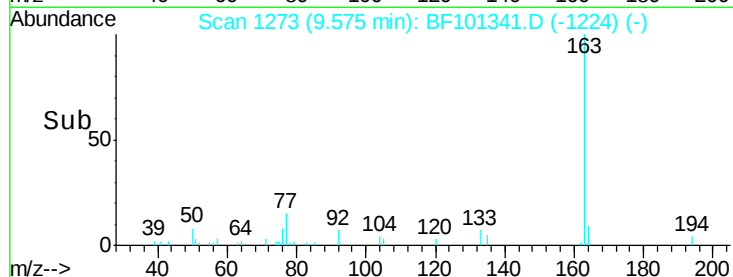
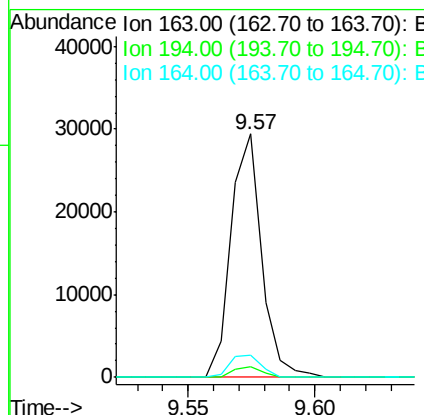
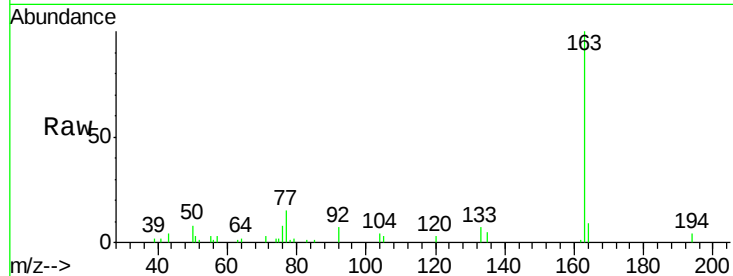
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Dimethylphthalate  
Concen: 4.506 ng  
RT: 9.57 min Scan# 1273  
Delta R.T. -0.01 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 2.7   | 4.1#  |
| 164     | 9.3   | 8.2   | 12.2  |

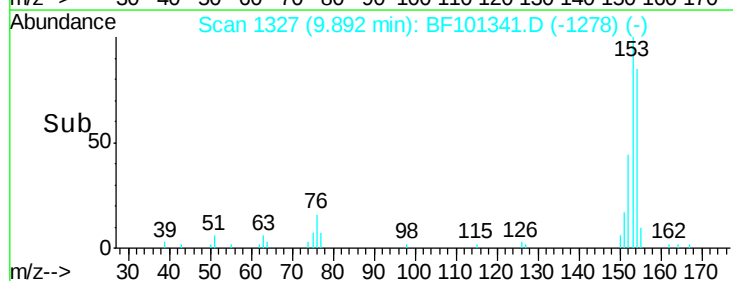
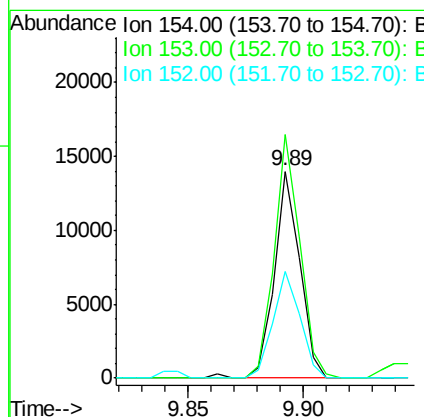
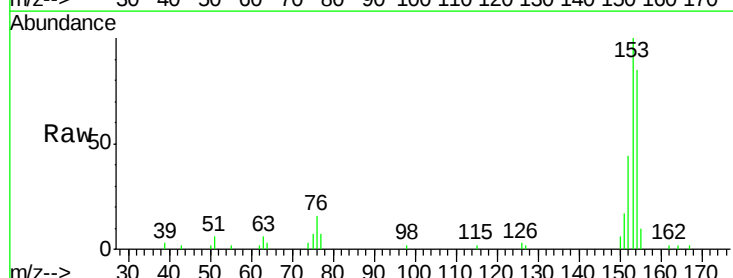
Manual Integrations  
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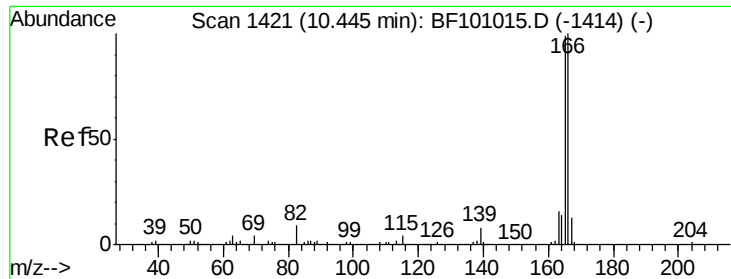
Sohil  
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#51  
Acenaphthene  
Concen: 2.465 ng  
RT: 9.89 min Scan# 1327  
Delta R.T. -0.01 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 117.6 | 91.2  | 136.8 |
| 152     | 51.2  | 43.8  | 65.8  |





#57

Fluorene

Concen: 2.084 ng

RT: 10.41 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

Instrument :

BNA\_F

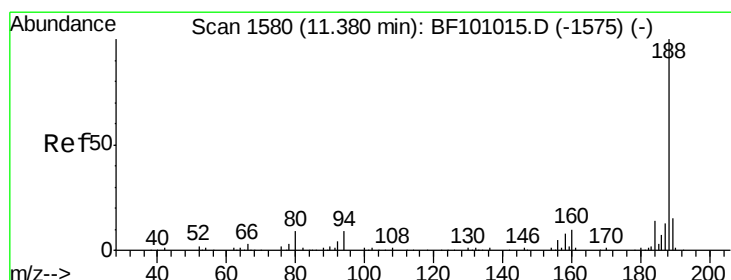
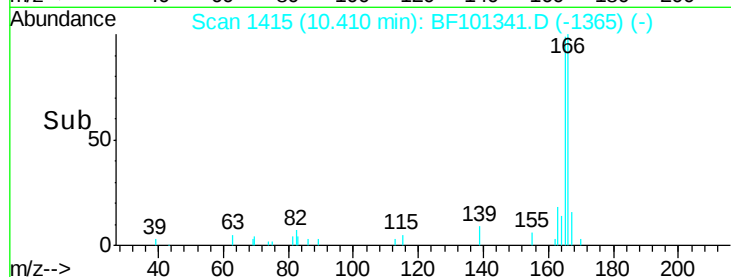
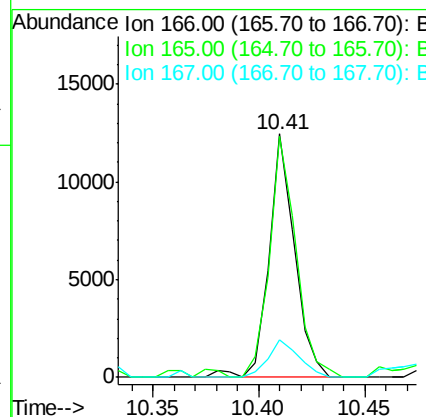
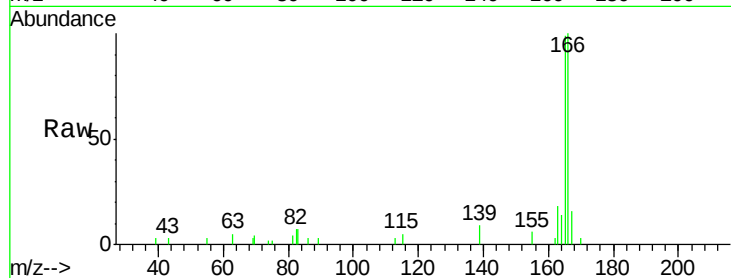
ClientSampled :

SB-9(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.0  | 79.8  | 119.8 |
| 167     | 15.6  | 10.6  | 16.0  |

Manual Integrations  
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#63

Phenanthrene-d10

Concen: 20.000 ng

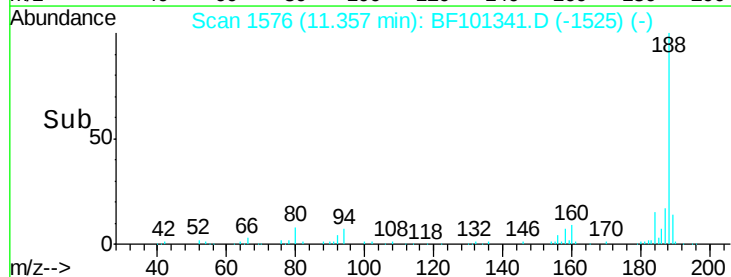
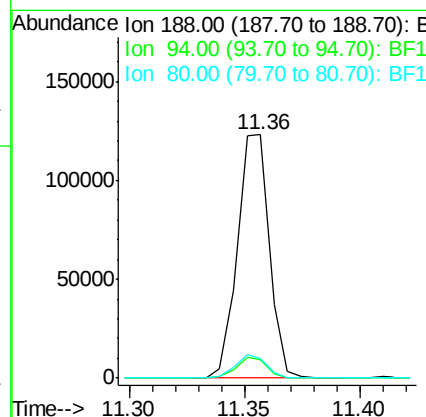
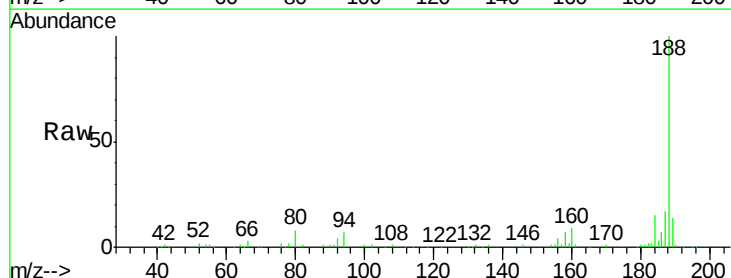
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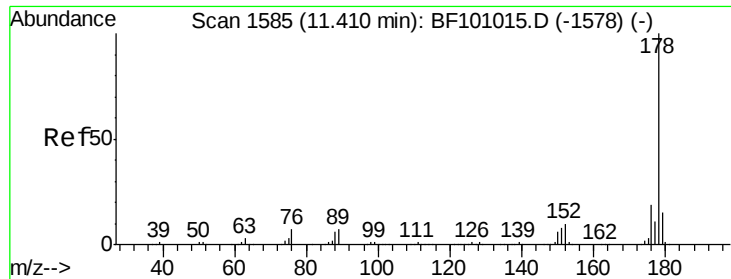
Delta R.T. 0.00 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.4   | 8.5   | 12.7# |
| 80      | 8.1   | 9.2   | 13.8# |





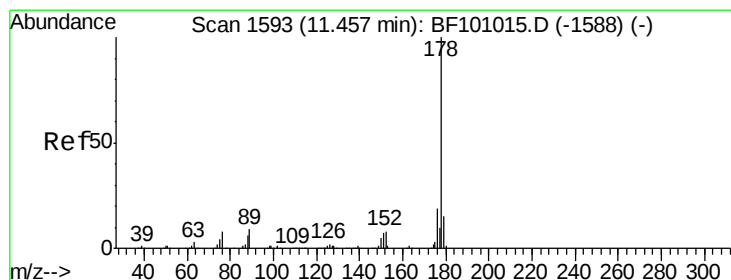
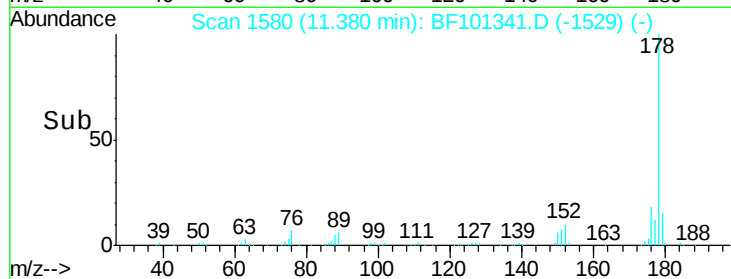
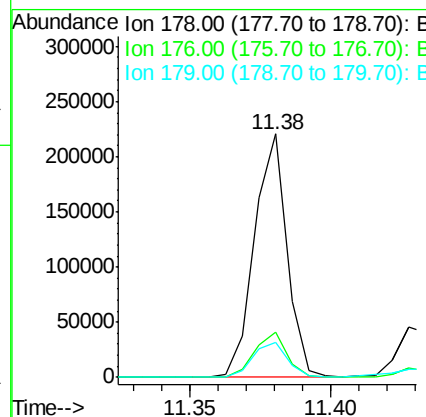
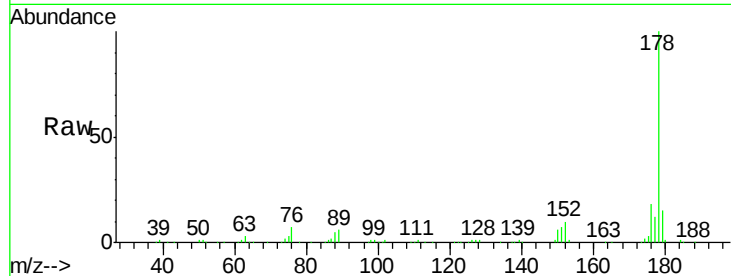
#70  
Phenanthrene  
Concen: 27.074 ng  
RT: 11.38 min Scan# 1580  
Delta R.T. 0.00 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampled :  
SB-9(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.8  | 23.8  |
| 179     | 14.6  | 13.0  | 19.6  |

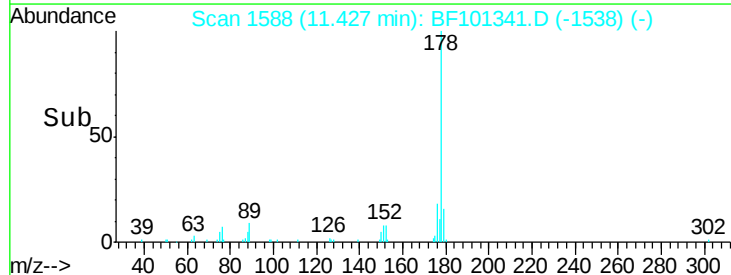
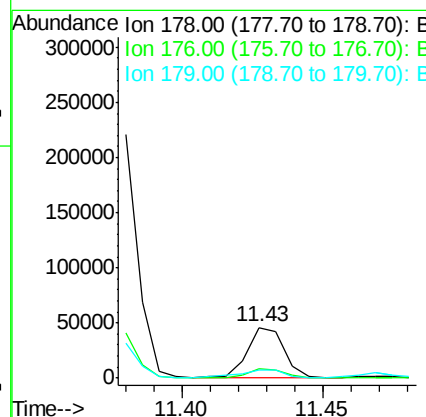
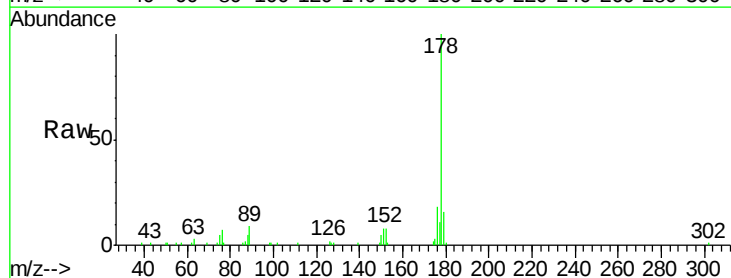
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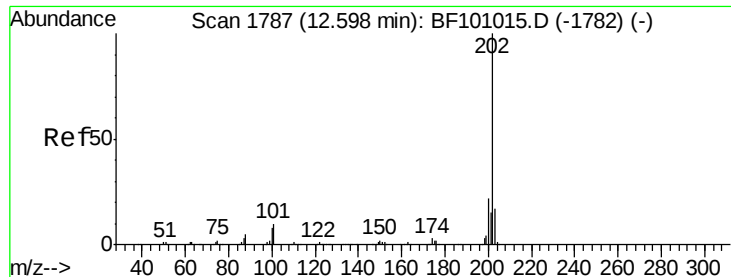
Sohil  
12/13/2017 12:07:49 PM



#71  
Anthracene  
Concen: 6.211 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.4  | 23.2  |
| 179     | 15.8  | 12.6  | 19.0  |





#74

Fluoranthene

Concen: 40.103 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

Instrument :

BNA\_F

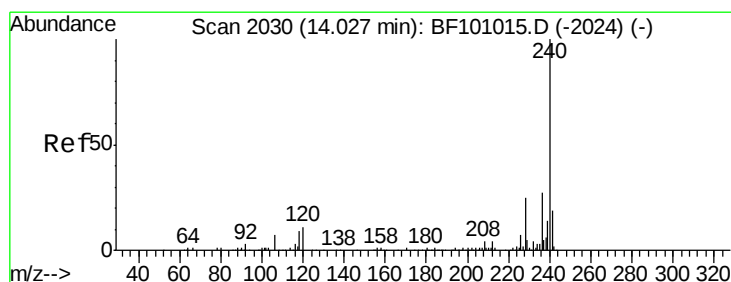
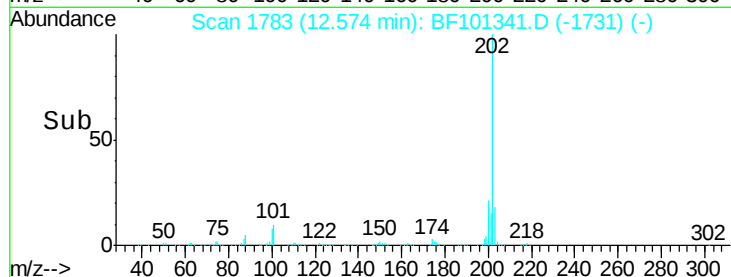
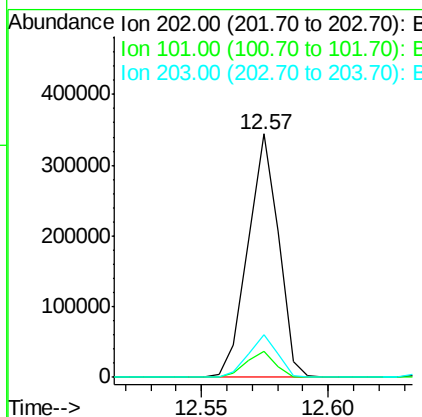
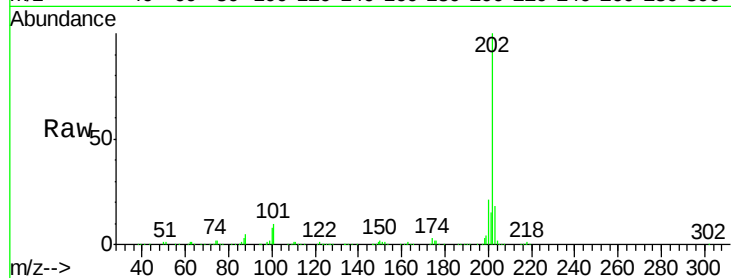
ClientSampleId :

SB-9(0-2)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.5  | 0.0        | 34.1  |
| 203     | 17.5  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

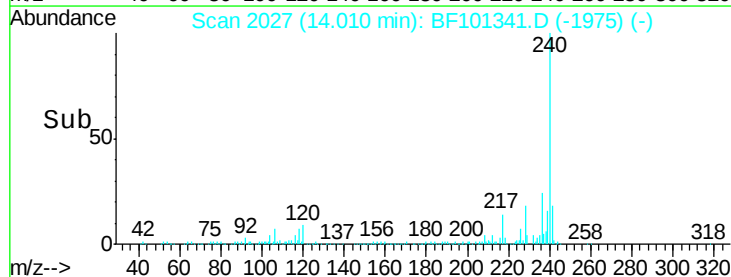
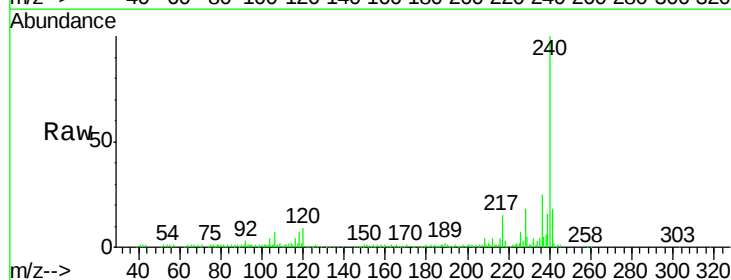
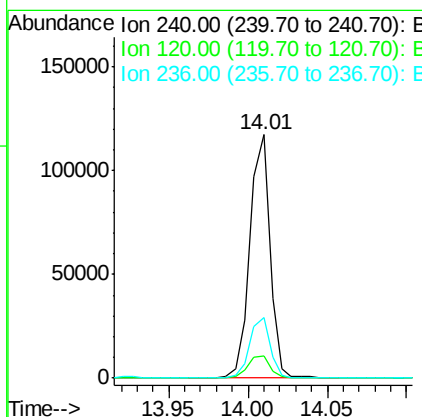
RT: 14.01 min Scan# 2027

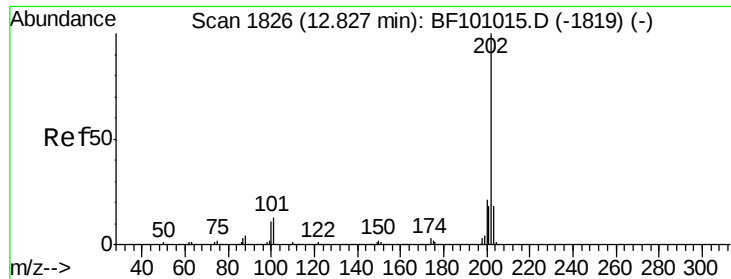
Delta R.T. 0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 9.0   | 9.5        | 14.3# |
| 236     | 24.6  | 20.7       | 31.1  |





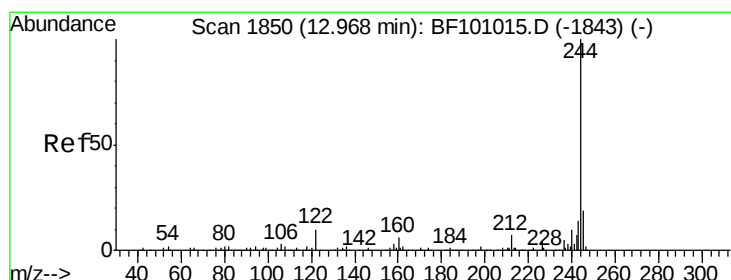
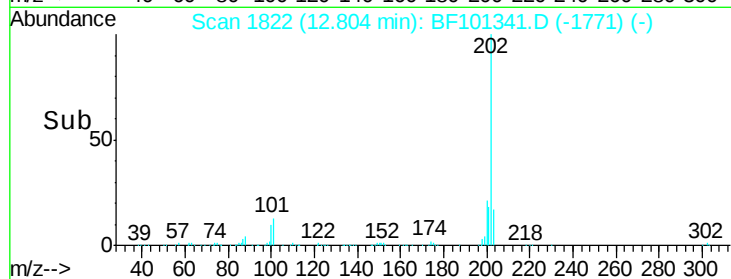
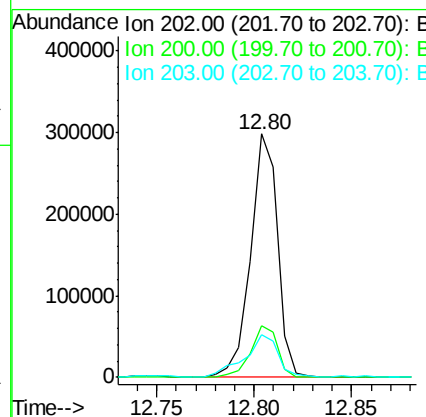
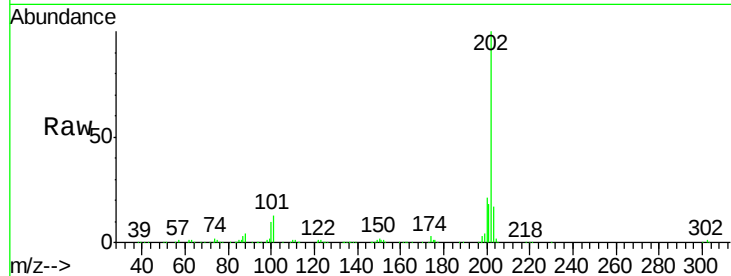
#77  
Pvrene  
Concen: 39.842 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9(0-2)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.2  | 17.4       | 26.2  |
| 203     | 17.4  | 14.3       | 21.5  |

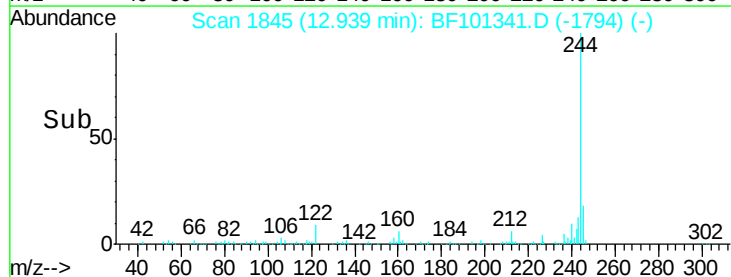
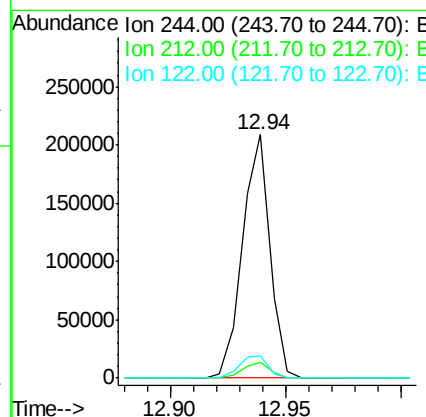
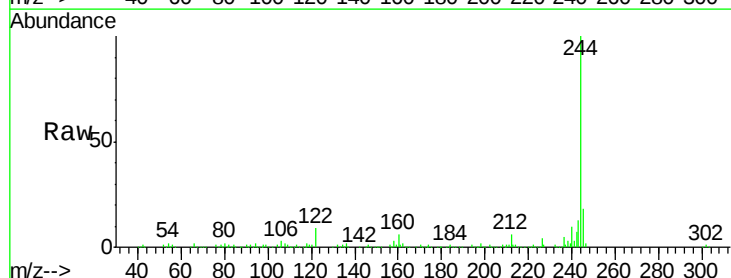
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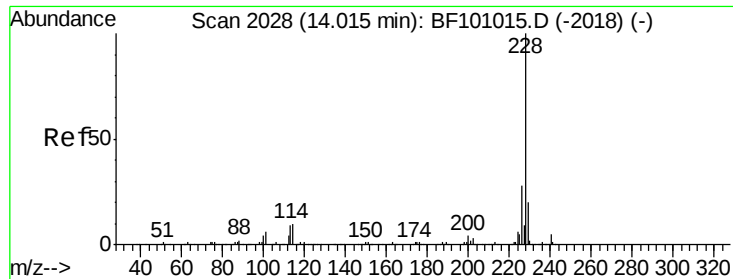
Sohil  
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#78  
Terphenyl-d14  
Concen: 36.612 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. 0.00 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.3   | 5.4        | 8.0   |
| 122     | 9.1   | 11.0       | 16.4# |





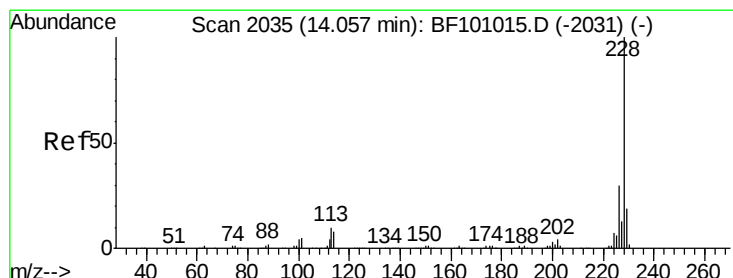
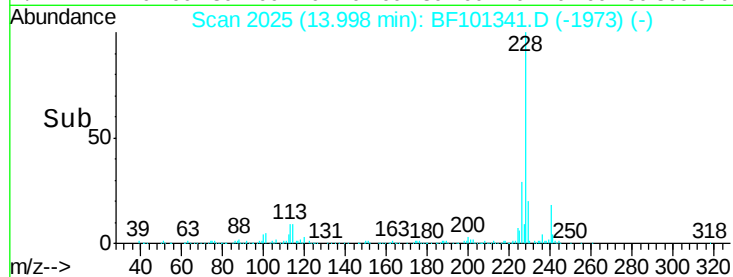
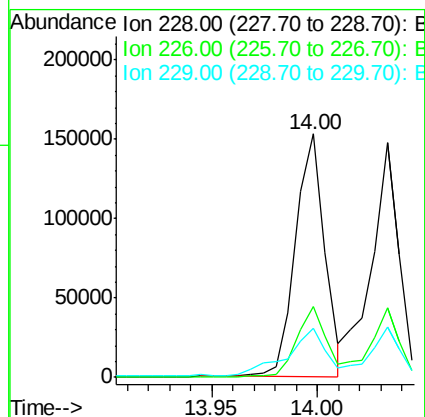
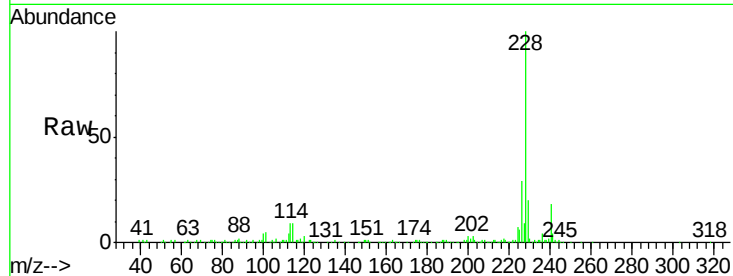
#80  
Benzo(a)anthracene  
Concen: 22.554 ng m  
RT: 14.00 min Scan# 2025  
Delta R.T. 0.01 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9(0-2)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 228     | 100  |       | 146978 |       |       |
| 226     | 28.9 | 22.6  | 33.8   |       |       |
| 229     | 20.3 | 15.8  | 23.6   |       |       |

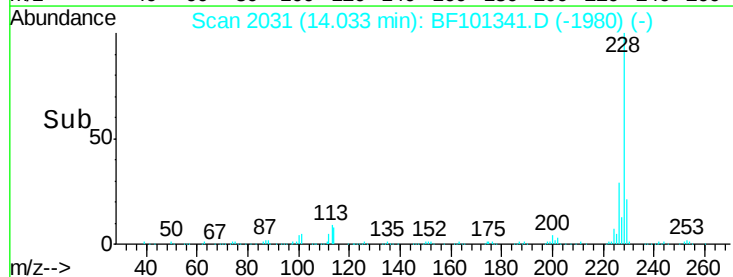
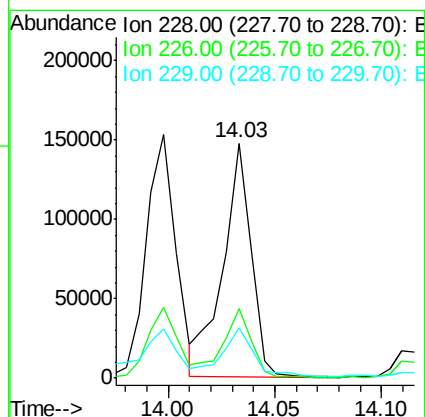
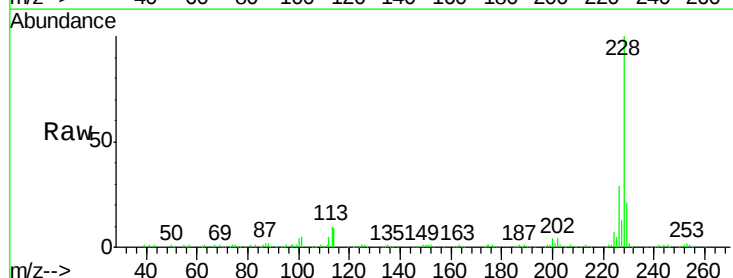
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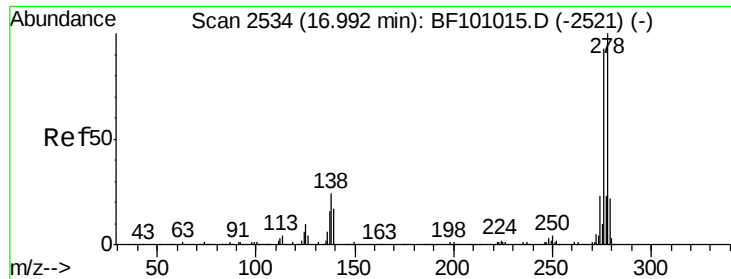
Sohil  
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#82  
Chrysene  
Concen: 22.453 ng m  
RT: 14.03 min Scan# 2031  
Delta R.T. 0.00 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 228     | 100  |       | 135889 |       |       |
| 226     | 29.5 | 25.0  | 37.6   |       |       |
| 229     | 21.4 | 16.2  | 24.4   |       |       |





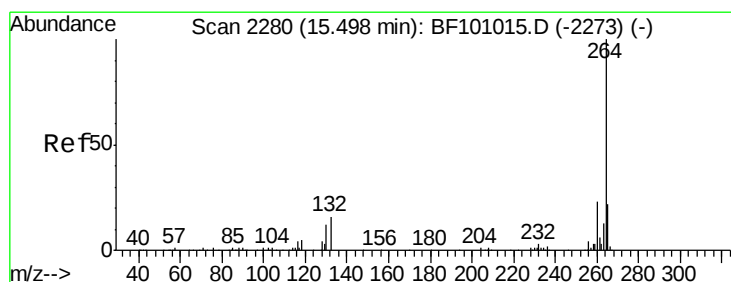
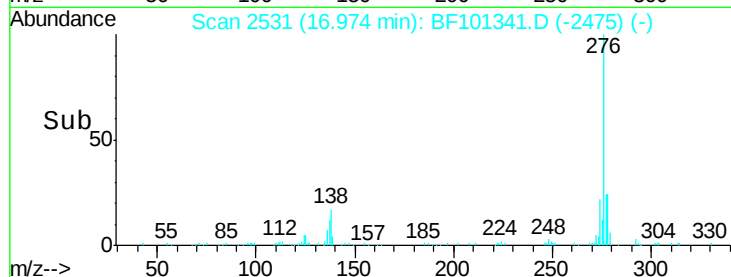
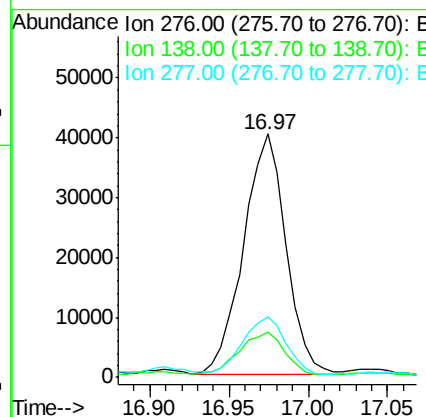
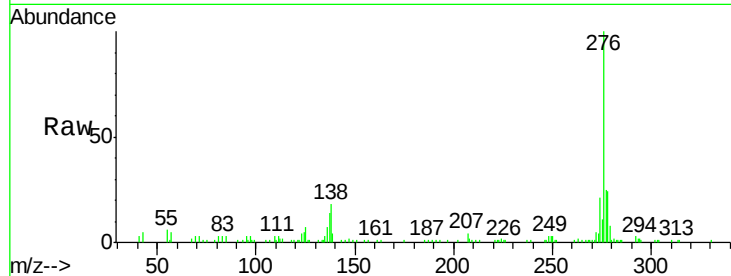
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 13.821 ng  
RT: 16.97 min Scan# 2531  
Delta R.T. 0.03 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

Instrument :  
BNA\_F  
ClientSampled :  
SB-9(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.2  | 25.0  | 37.6# |
| 277     | 24.8  | 20.1  | 30.1  |

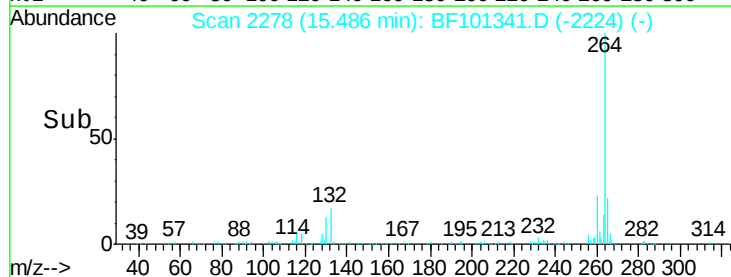
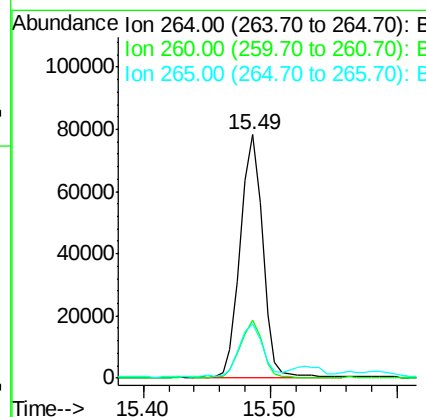
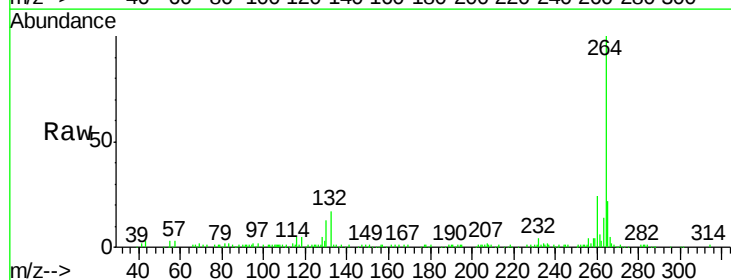
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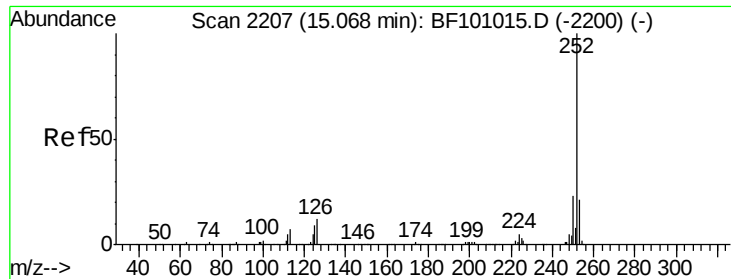
Sohil  
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.49 min Scan# 2278  
Delta R.T. 0.02 min  
Lab File: BF101341.D  
Acq: 12 Dec 2017 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 22.1  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 26.374 ng m

RT: 15.06 min Scan# 2205

Delta R.T. 0.02 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

Instrument :

BNA\_F

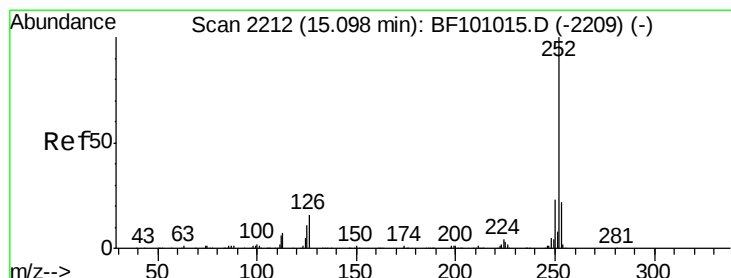
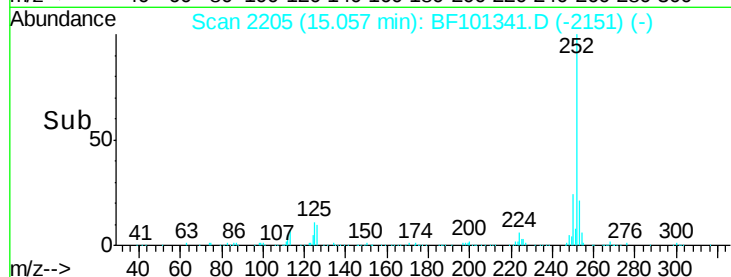
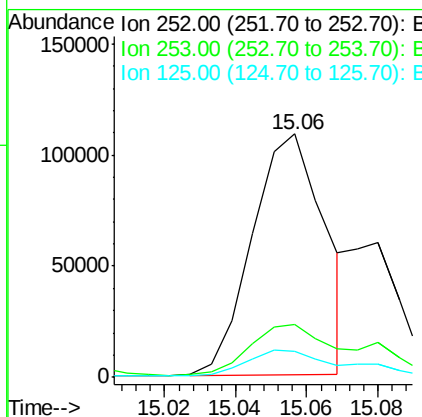
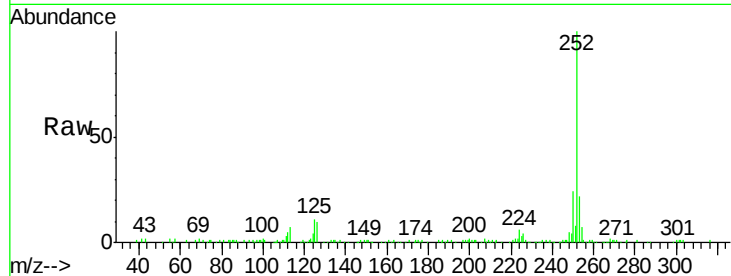
ClientSampled :

SB-9(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 153431 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.0  | 25.6   |
| 125       | 10.9  | 9.0   | 13.6   |

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#88

Benzo(k)fluoranthene

Concen: 9.691 ng m

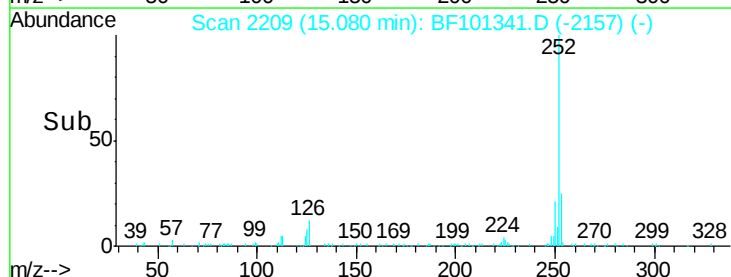
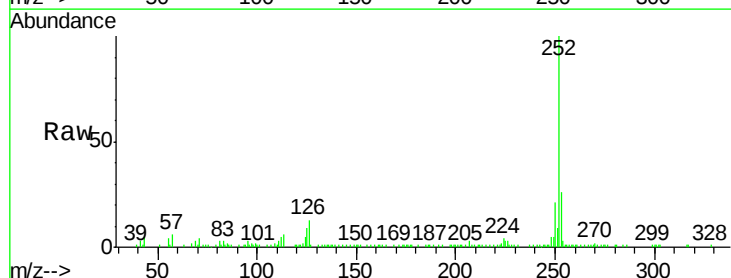
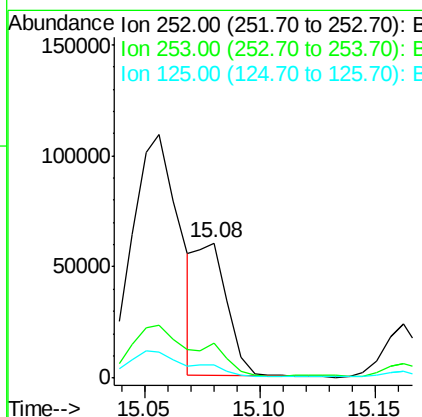
RT: 15.08 min Scan# 2209

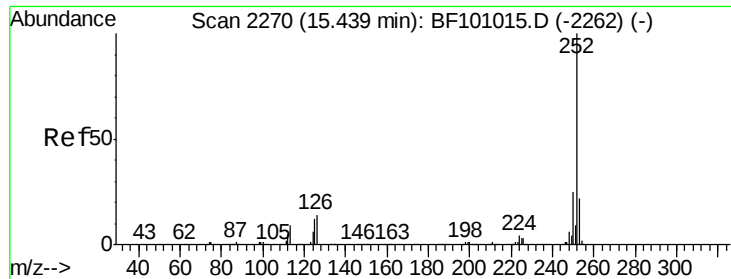
Delta R.T. 0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 55548 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 17.9  | 26.9  |
| 125       | 9.3   | 10.2  | 15.2# |





#89

Benzo(a)pyrene

Concen: 23.388 ng

RT: 15.42 min Scan# 2267

Delta R.T. 0.01 min

Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

Instrument :

BNA\_F

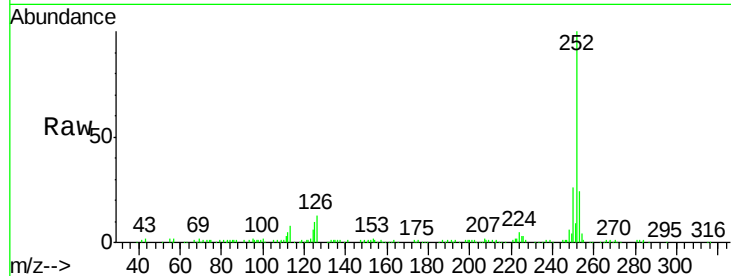
ClientSampled :

SB-9(0-2)

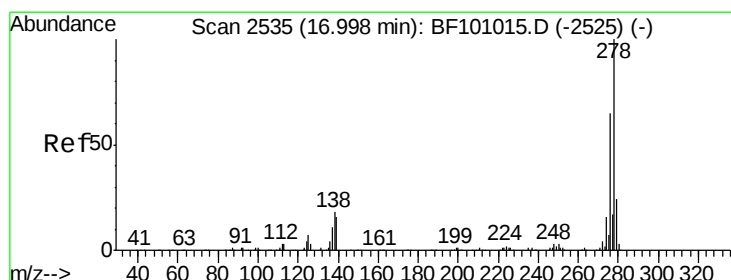
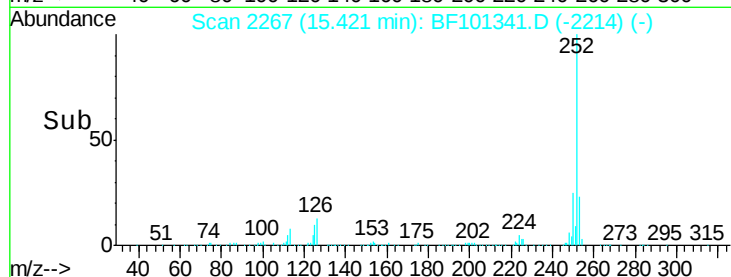
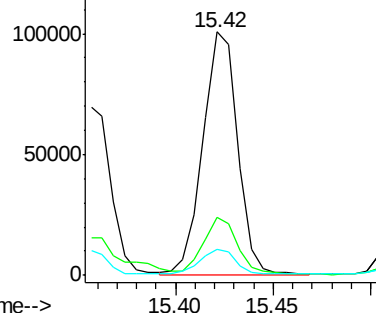
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 123696 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 17.1  | 25.7   |
| 125       | 10.5  | 9.8   | 14.6   |

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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: 4.945 ng m

RT: 16.97 min Scan# 2530

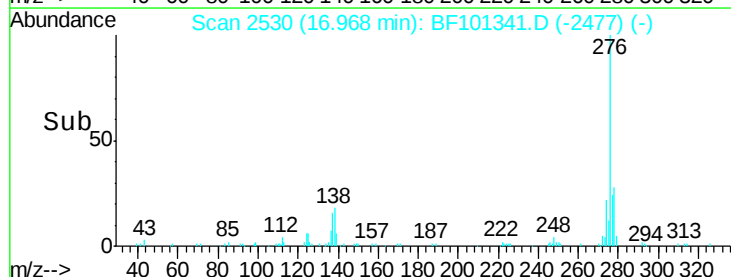
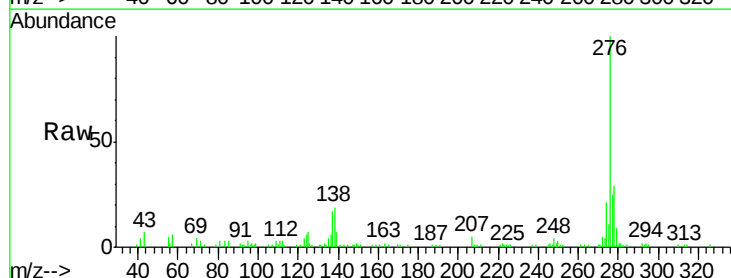
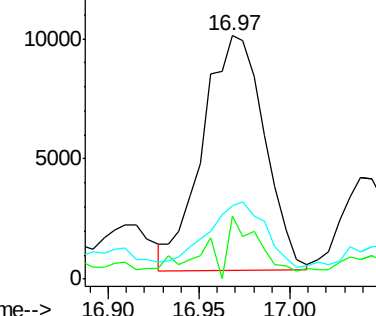
Delta R.T. 0.01 min

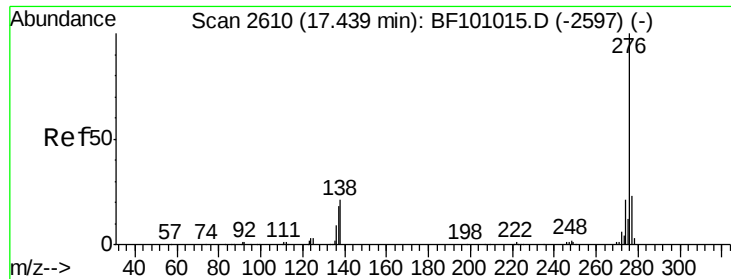
Lab File: BF101341.D

Acq: 12 Dec 2017 20:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 23056 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 25.8  | 15.9  | 23.9# |
| 279       | 30.0  | 19.0  | 28.4# |

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: 16.757 ng  
 RT: 17.43 min Scan# 2608  
 Delta R.T. 0.04 min  
 Lab File: BF101341.D  
 Acq: 12 Dec 2017 20:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-9(0-2)

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 276  | Resp: | 73631 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 26.0 | 17.9  | 26.9  |
| 138       | 21.0 | 21.8  | 32.8# |

Manual Integrations  
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