

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\  
 Data File : BF116842.D  
 Acq On : 5 Sep 2019 17:08  
 Operator : HP/JU  
 Sample : K4694-01 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-1-4-(0-1.5)

Manual Integrations  
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 9/10/2019 9:52:28 AM

Quant Time: Sep 06 04:50:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 30 20:02:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 92745    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 387946   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.88  | 164  | 196355   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.36 | 188  | 295491   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.00 | 240  | 226218   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.46 | 264  | 189911   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 194298   | 33.94  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 267998   | 35.65  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 161171   | 23.72  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 51654    | 39.35  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 303269   | 26.05  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.94 | 244  | 252010   | 20.61  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 50) Dimethylphthalate          | 9.59  | 163  | 28527    | 2.104  | ng    | 97       |
| 71) Phenanthrene               | 11.39 | 178  | 53858    | 3.274  | ng    | 97       |
| 75) Fluoranthene               | 12.57 | 202  | 105755   | 6.542  | ng    | 99       |
| 78) Pyrene                     | 12.80 | 202  | 89754    | 4.463  | ng    | 99       |
| 81) Benzo(a)anthracene         | 13.99 | 228  | 45718    | 3.193  | ng    | 95       |
| 83) Chrysene                   | 14.02 | 228  | 46894    | 3.179  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 13.97 | 149  | 180467   | 14.950 | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 15.03 | 252  | 57865m   | 5.040  | ng    |          |
| 90) Benzo(a)pyrene             | 15.39 | 252  | 28040    | 2.807  | ng    | # 93     |

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

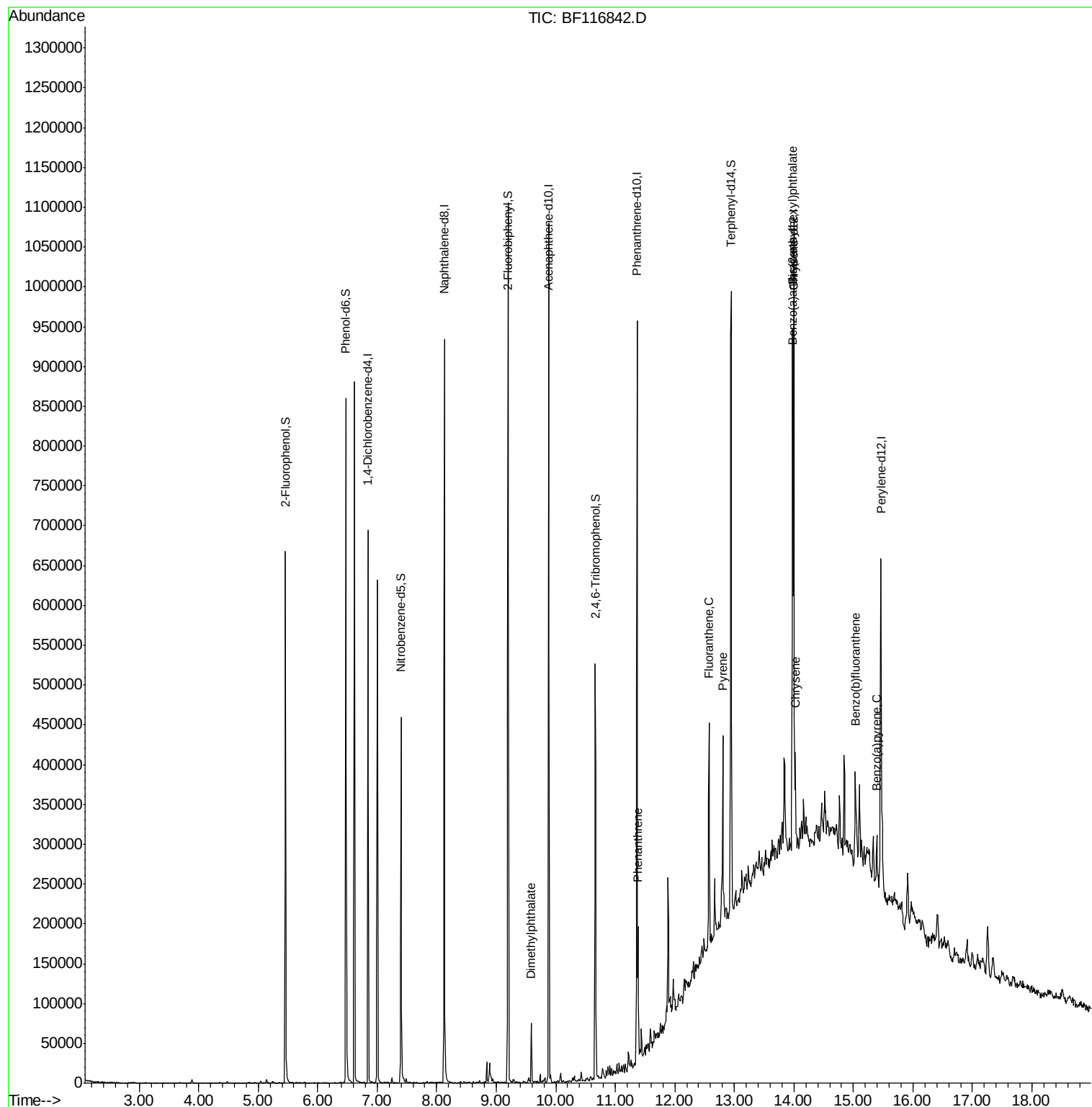
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\  
Data File : BF116842.D  
Acq On : 5 Sep 2019 17:08  
Operator : HP/JU  
Sample : K4694-01 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

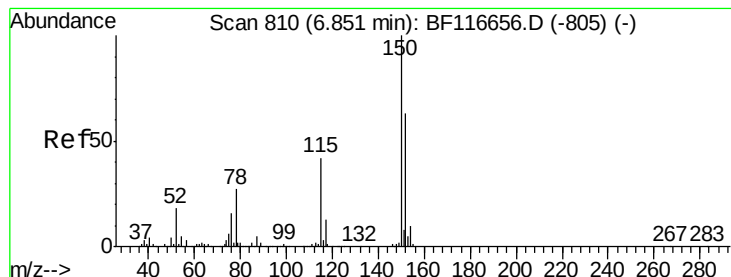
Instrument :  
BNA\_F  
ClientSampleId :  
T1-1-4-(0-1.5)

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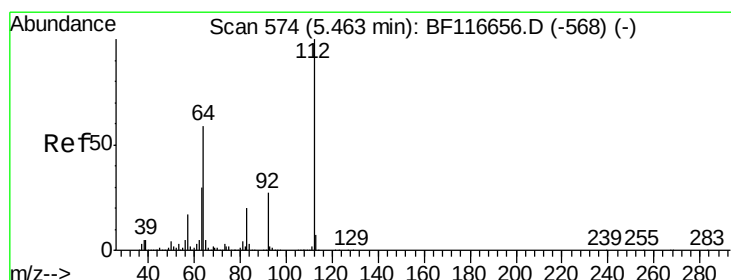
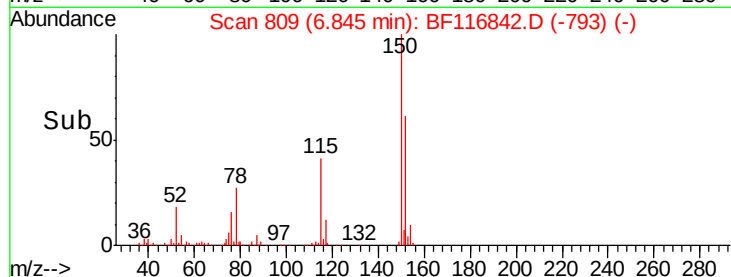
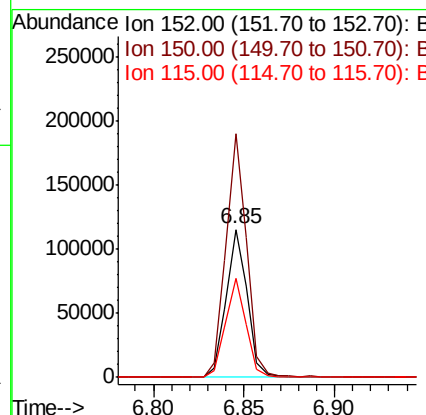
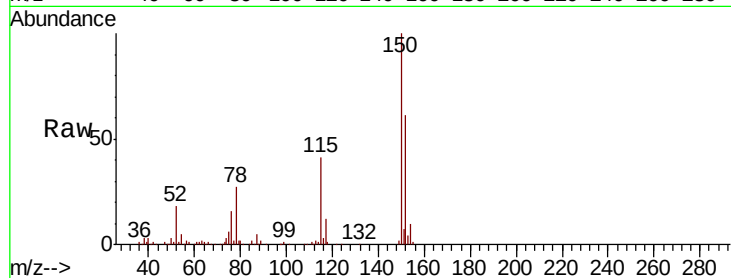
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 809  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-1-4-(0-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.6 | 124.4 | 186.6 |
| 115     | 67.2  | 49.9  | 74.9  |

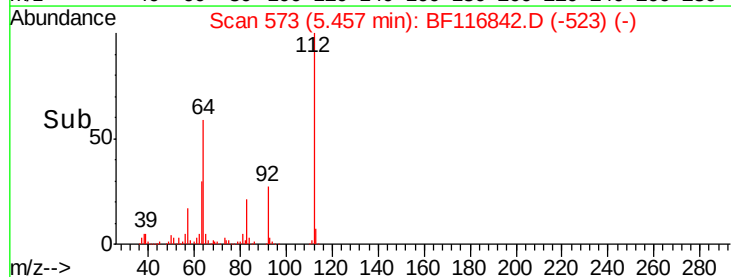
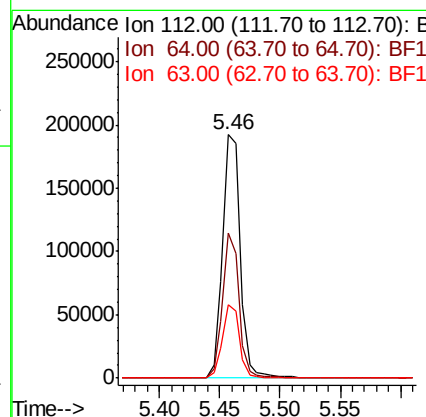
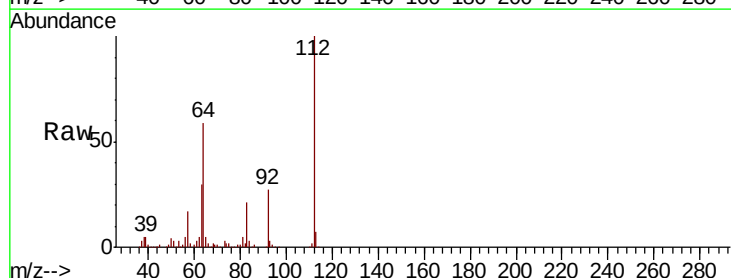
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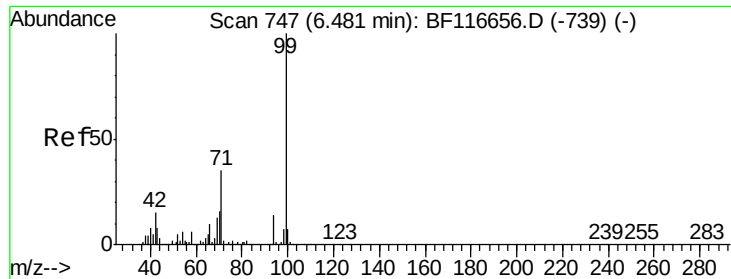
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#5  
 2-Fluorophenol  
 Concen: 33.940 ng  
 RT: 5.46 min Scan# 573  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.4  | 47.1  | 70.7  |
| 63      | 30.4  | 24.9  | 37.3  |





#7

Phenol-d6

Concen: 35.651 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116842.D

Acq: 5 Sep 2019 17:08

Instrument :

BNA\_F

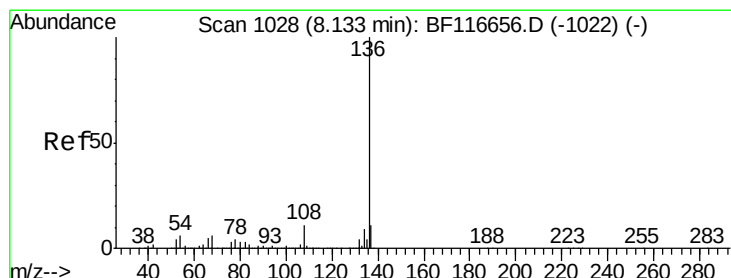
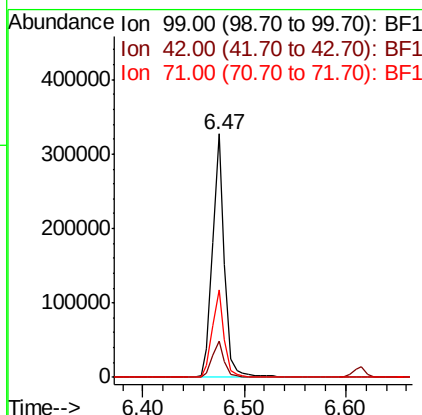
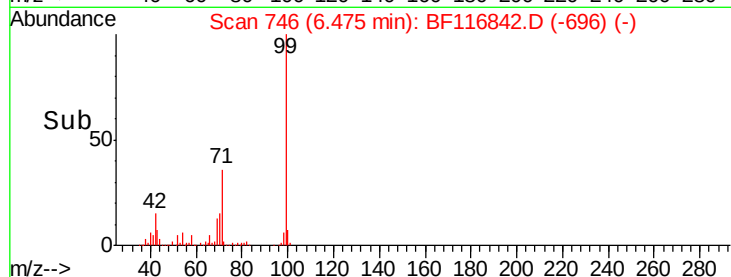
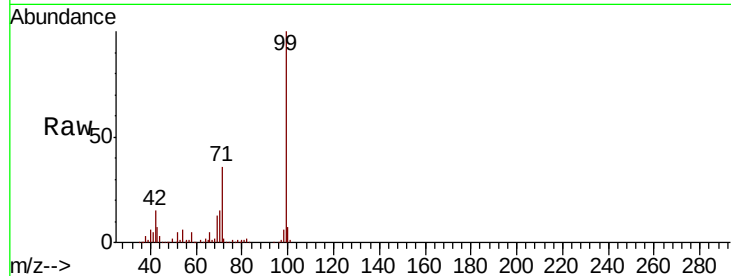
ClientSampleId :

T1-1-4-(0-1.5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 267998 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 14.7  | 13.7  | 20.5   |
| 71        | 35.9  | 30.8  | 46.2   |

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#21

Naphthalene-d8

Concen: 20.000 ng

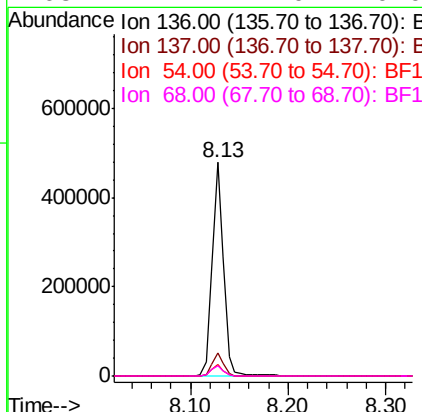
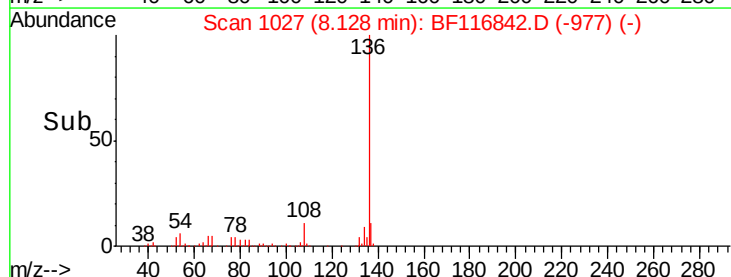
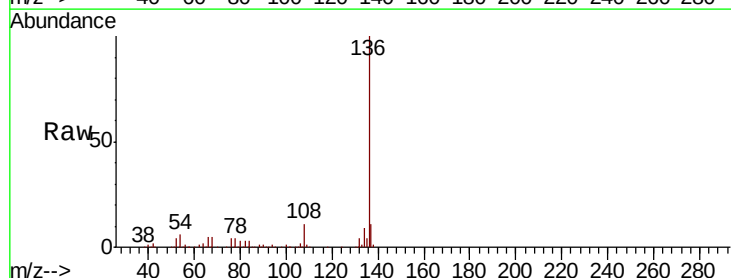
RT: 8.13 min Scan# 1027

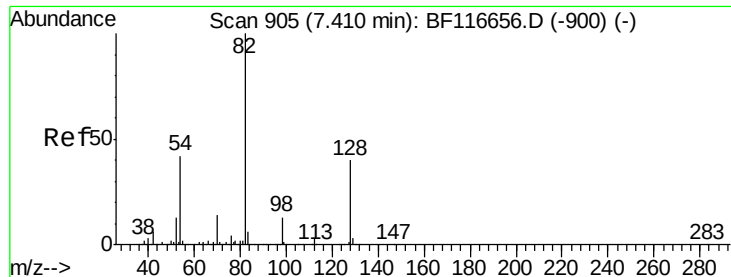
Delta R.T. -0.01 min

Lab File: BF116842.D

Acq: 5 Sep 2019 17:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 387946 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 8.9   | 13.3   |
| 54        | 5.6   | 4.8   | 7.2    |
| 68        | 4.7   | 4.0   | 6.0    |





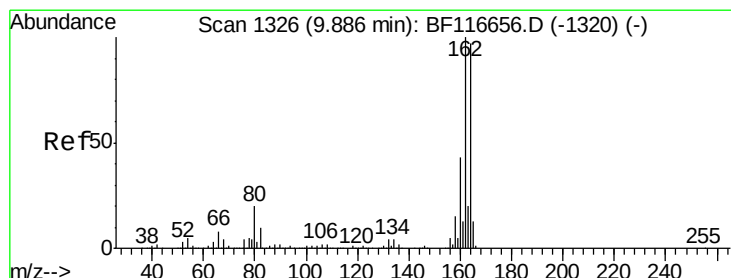
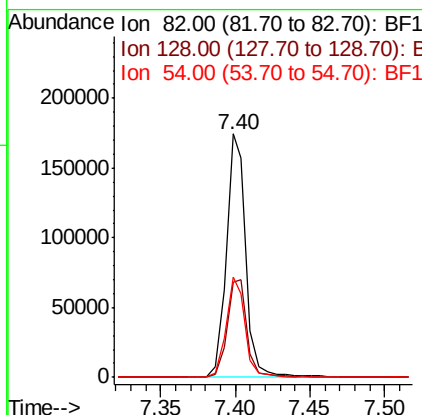
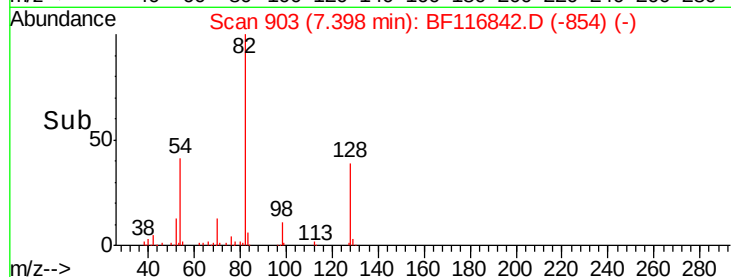
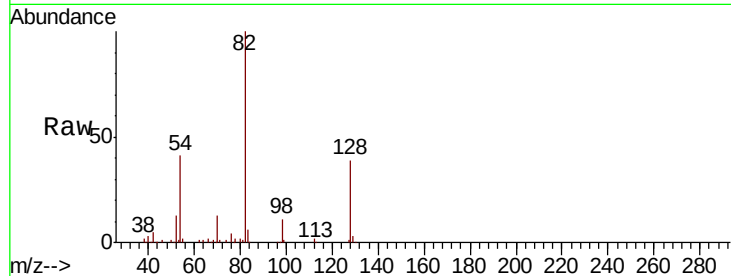
#23  
 Nitrobenzene-d5  
 Concen: 23.717 ng  
 RT: 7.40 min Scan# 903  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-1-4-(0-1.5)

| Tot Ion   | 82    | Resp  | 161171 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 39.2  | 32.8  | 49.2   |
| 54        | 41.4  | 36.9  | 55.3   |

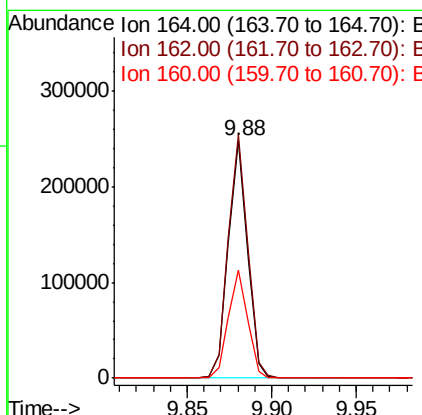
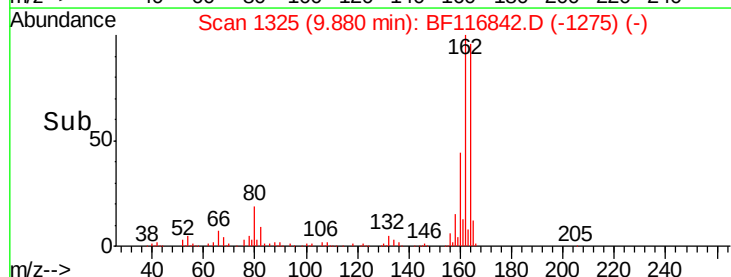
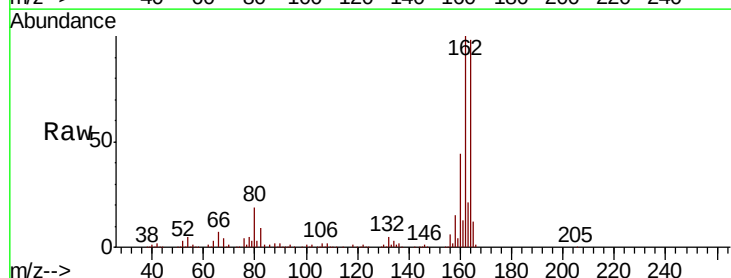
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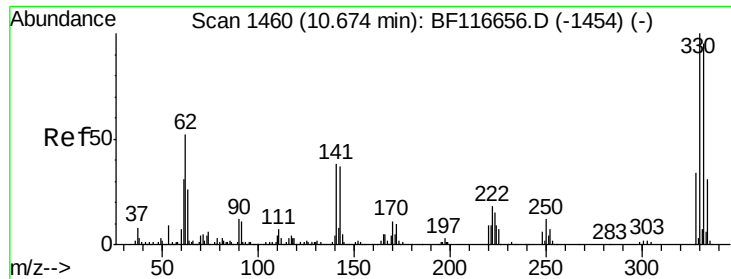
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.88 min Scan# 1325  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

| Tgt Ion   | 164   | Resp  | 196355 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.4 | 81.4  | 122.0  |
| 160       | 45.2  | 35.4  | 53.2   |





#42

2,4,6-Tribromophenol

Concen: 39.350 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116842.D

Acq: 5 Sep 2019 17:08

Instrument :

BNA\_F

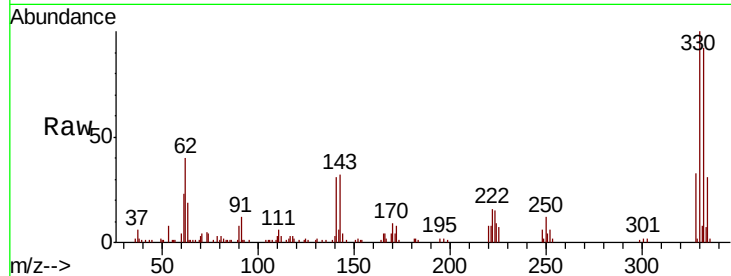
ClientSampleId :

T1-1-4-(0-1.5)

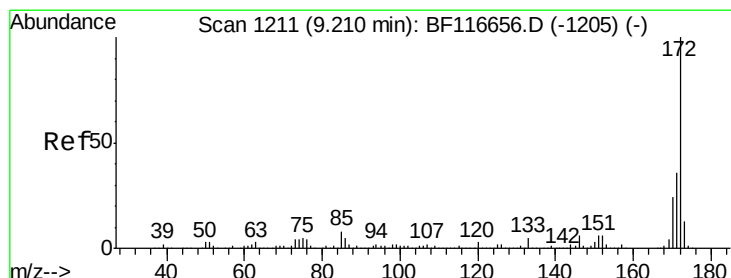
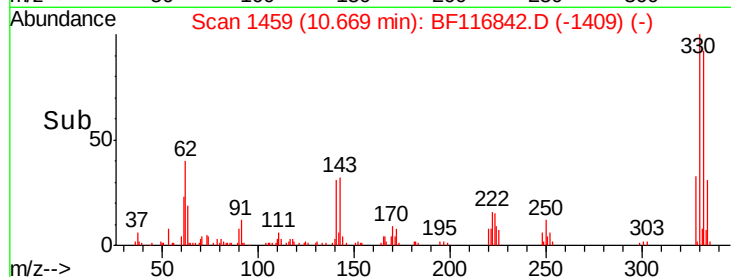
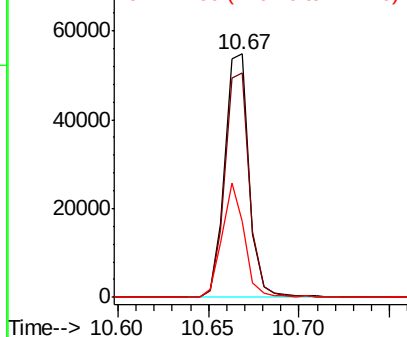
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 51654 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 92.7  | 76.9  | 115.3 |
| 141       | 42.5  | 31.4  | 47.2  |

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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



#45

2-Fluorobiphenyl

Concen: 26.054 ng

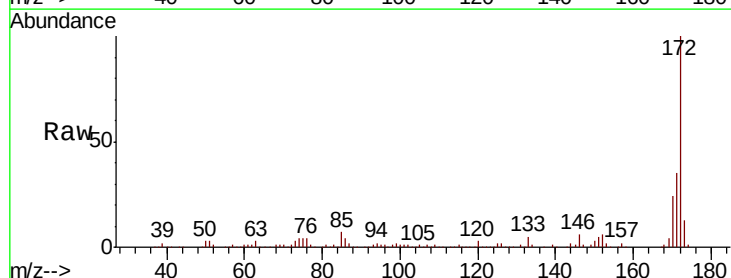
RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

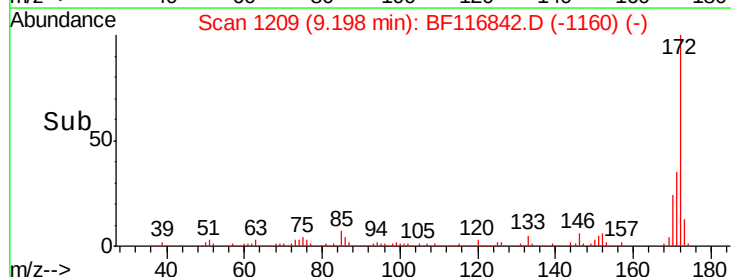
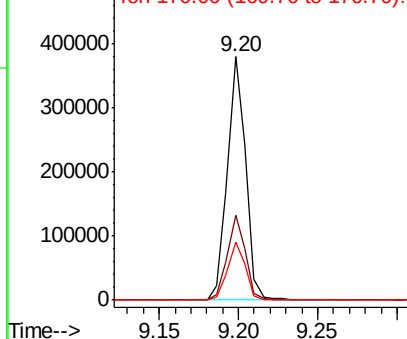
Lab File: BF116842.D

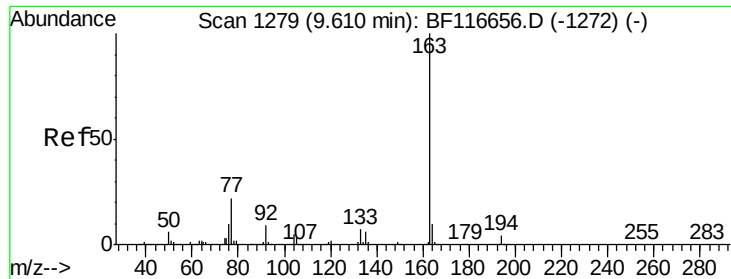
Acq: 5 Sep 2019 17:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 303269 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 34.6  | 27.8  | 41.6   |
| 170       | 23.8  | 18.9  | 28.3   |



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





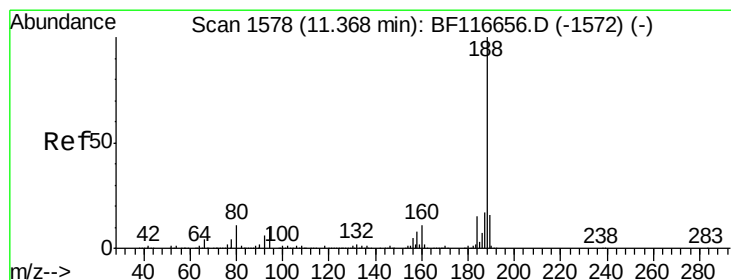
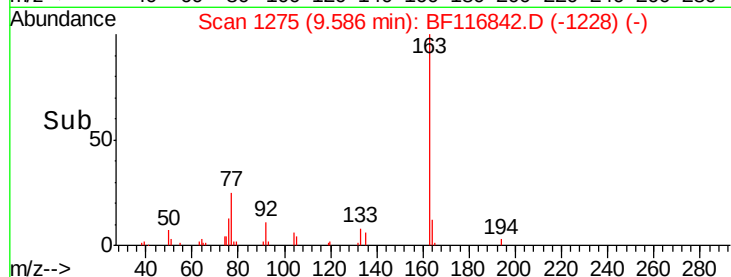
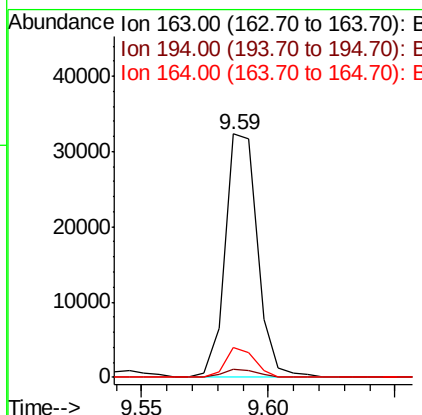
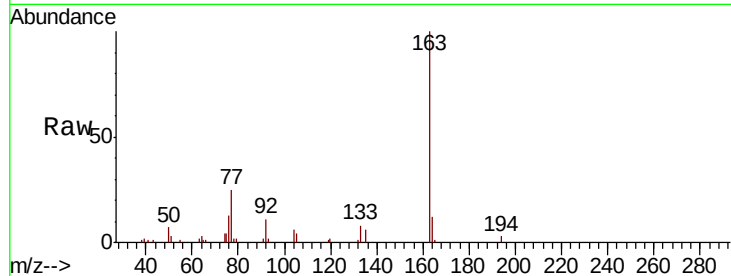
#50  
Dimethylphthalate  
Concen: 2.104 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF116842.D  
Acq: 5 Sep 2019 17:08

Instrument :  
BNA\_F  
ClientSampleId :  
T1-1-4-(0-1.5)

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 28527 |       |       |
| 194     | 3.4   |       | 2.8   | 4.2   |
| 164     | 12.4  |       | 8.6   | 12.8  |

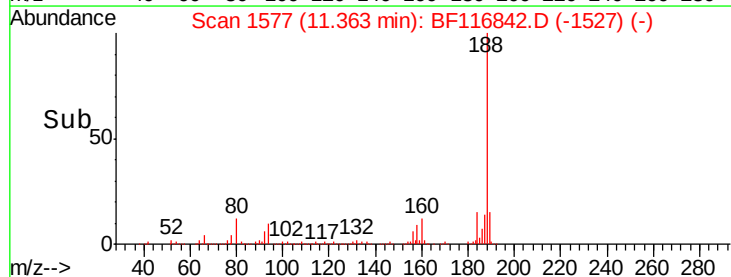
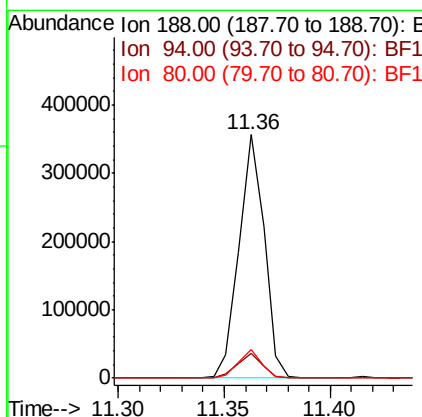
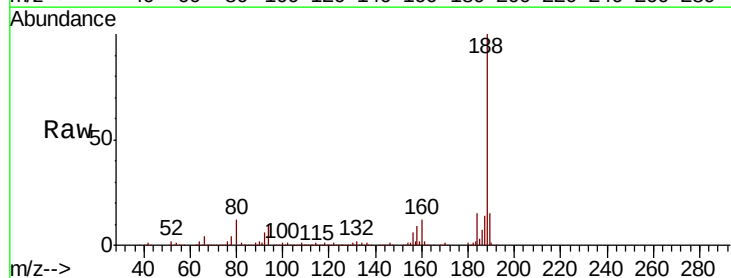
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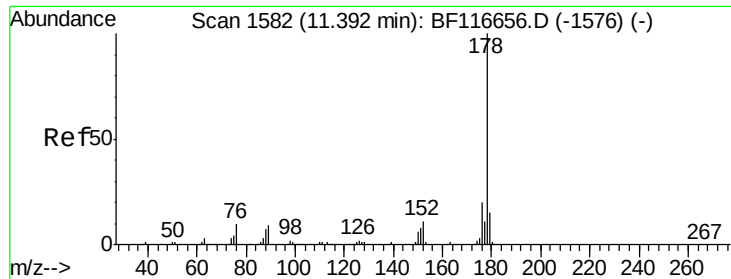
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF116842.D  
Acq: 5 Sep 2019 17:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 295491 |       |       |
| 94      | 10.0  |        | 7.3   | 10.9  |
| 80      | 11.7  |        | 8.4   | 12.6  |





#71

Phenanthrene

Concen: 3.274 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF116842.D

Acq: 5 Sep 2019 17:08

Instrument :

BNA\_F

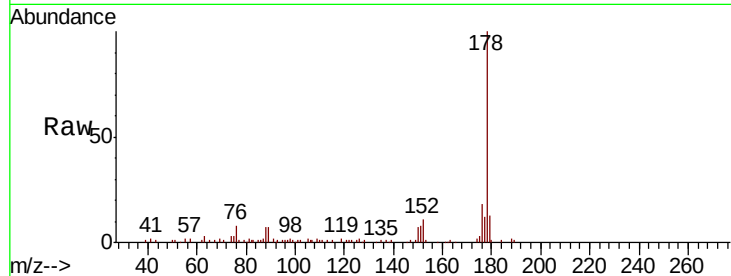
ClientSampleId :

T1-1-4-(0-1.5)

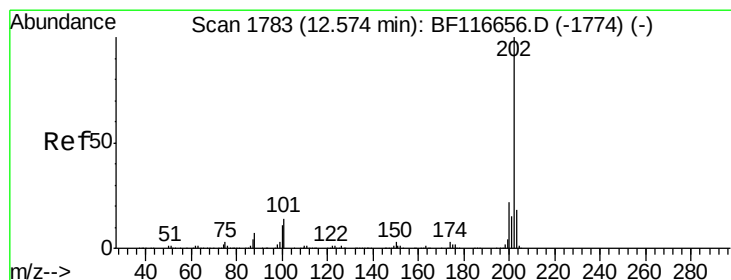
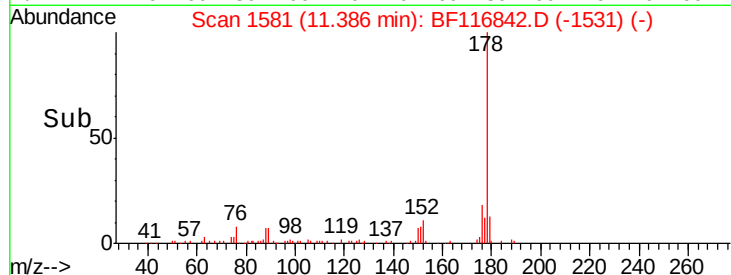
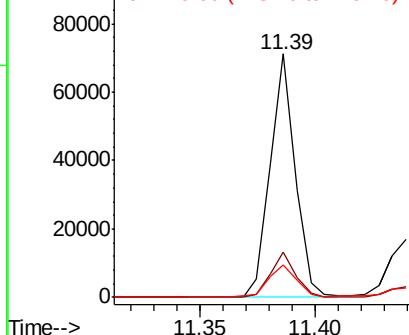
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 53858 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.4  | 15.4  | 23.0  |
| 179       | 13.4  | 12.2  | 18.2  |

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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



#75

Fluoranthene

Concen: 6.542 ng

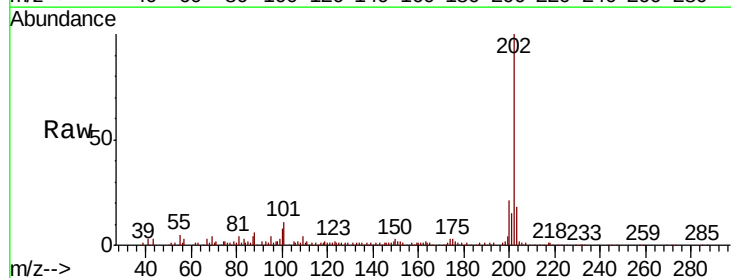
RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

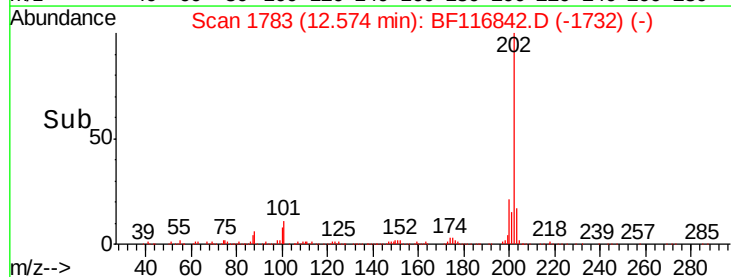
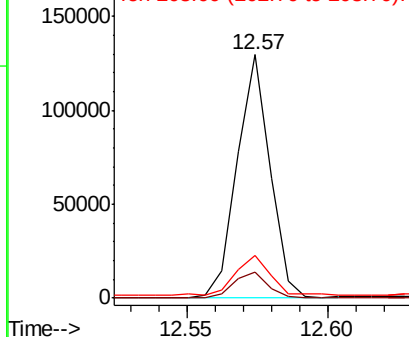
Lab File: BF116842.D

Acq: 5 Sep 2019 17:08

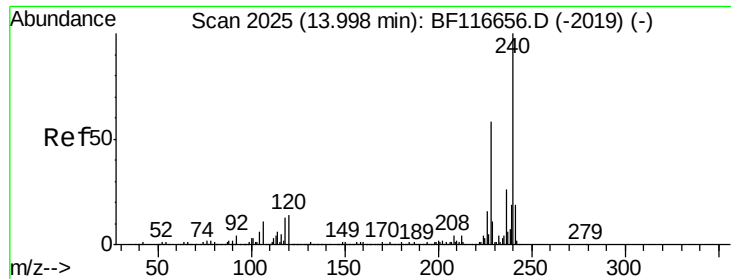
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 105755 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.6  | 0.0   | 31.3   |
| 203       | 17.6  | 0.0   | 37.6   |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E







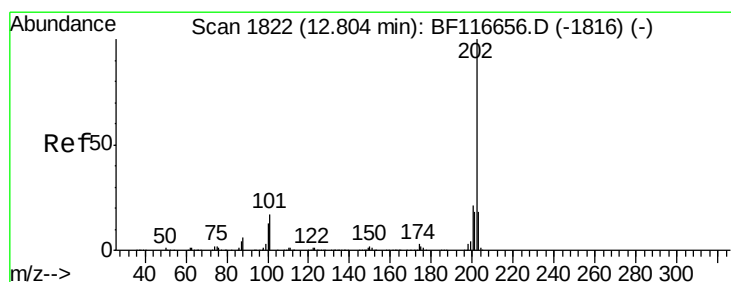
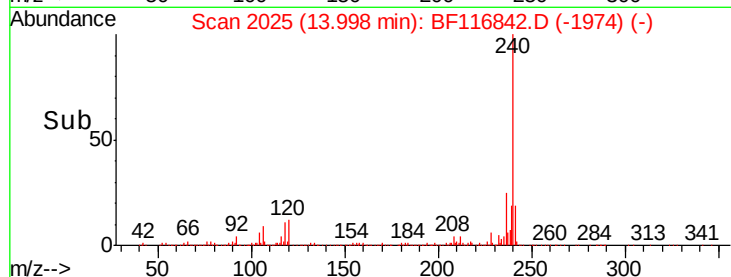
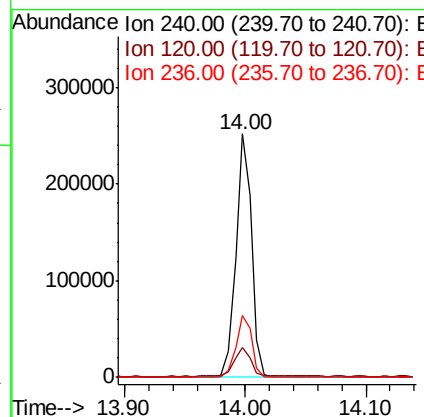
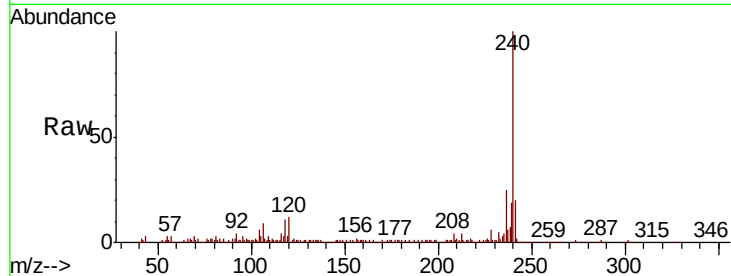
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. 0.00 min  
Lab File: BF116842.D  
Acq: 5 Sep 2019 17:08

Instrument :  
BNA\_F  
ClientSampleId :  
T1-1-4-(0-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.2  | 9.1   | 13.7  |
| 236     | 25.4  | 21.1  | 31.7  |

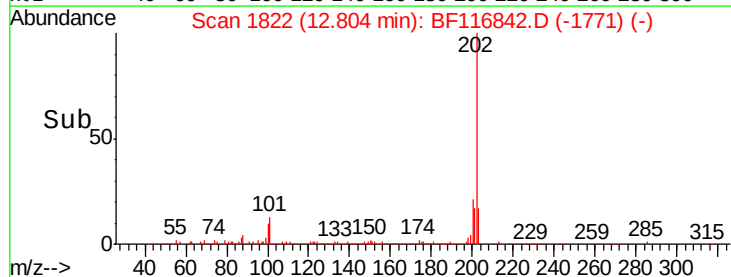
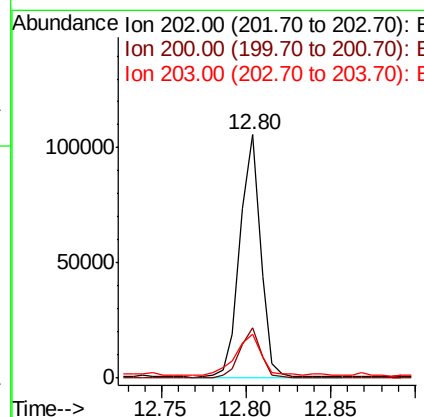
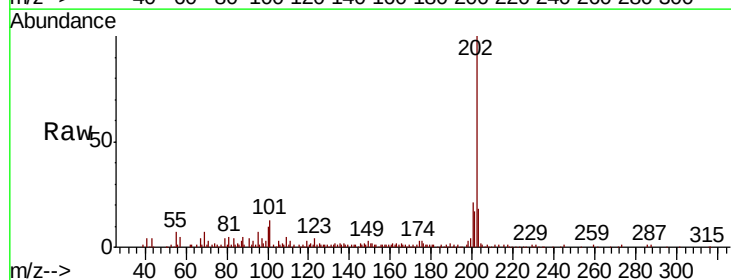
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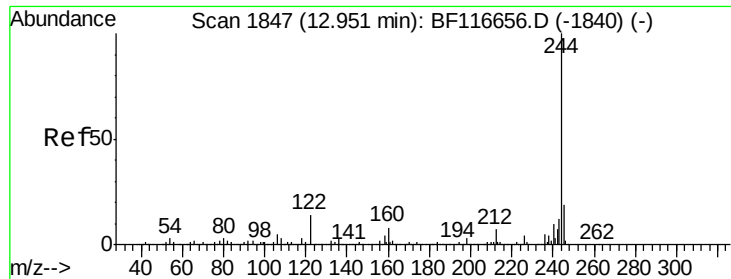
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#78  
Pyrene  
Concen: 4.463 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: BF116842.D  
Acq: 5 Sep 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.5  | 24.7  |
| 203     | 18.0  | 13.7  | 20.5  |





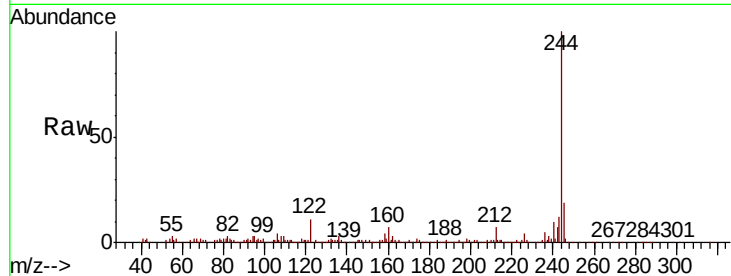
#79  
 Terphenyl-d14  
 Concen: 20.609 ng  
 RT: 12.94 min Scan# 1846  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-1-4-(0-1.5)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 252010 |       |       |
| 212     | 6.7   |        | 6.1   | 9.1   |
| 122     | 11.3  |        | 10.2  | 15.4  |

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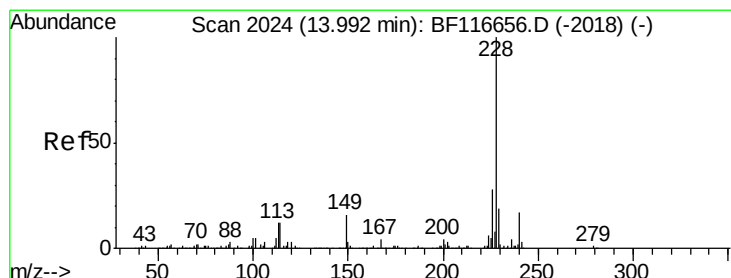
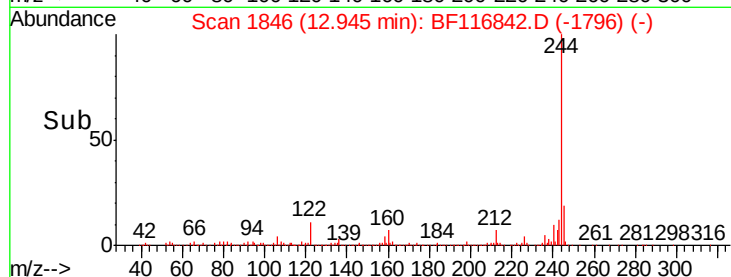
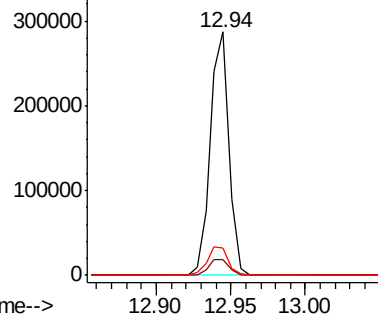


Abundance

Ion 244.00 (243.70 to 244.70): E

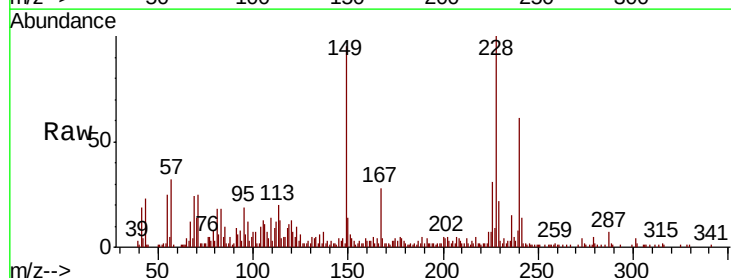
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81  
 Benzo(a)anthracene  
 Concen: 3.193 ng  
 RT: 13.99 min Scan# 2023  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 45718 |       |       |
| 226     | 31.0  |       | 22.0  | 33.0  |
| 229     | 21.9  |       | 16.4  | 24.6  |

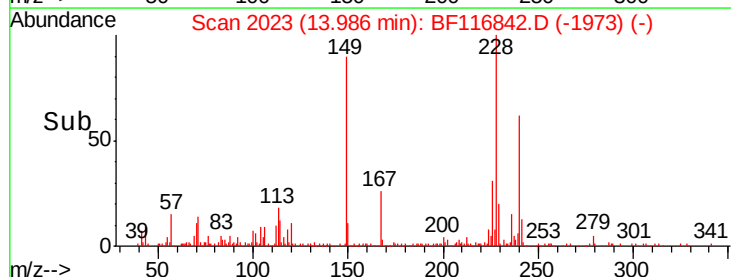
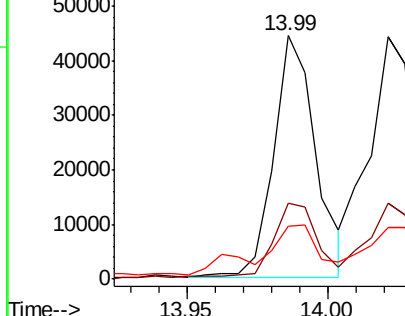


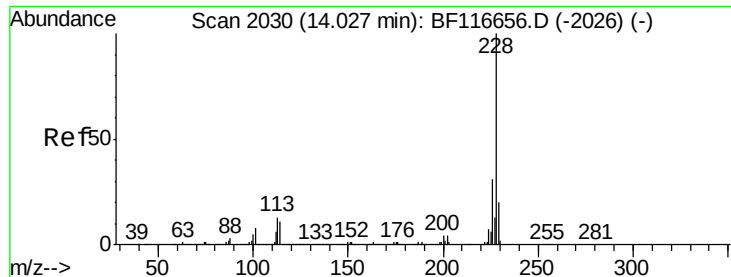
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





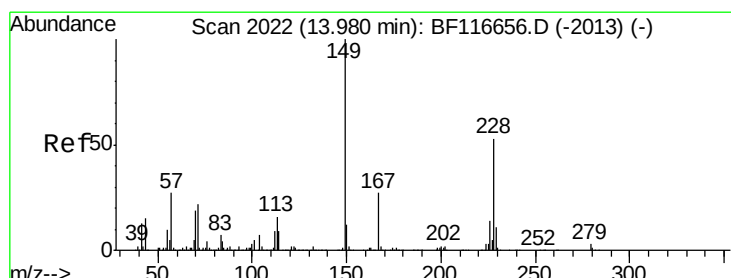
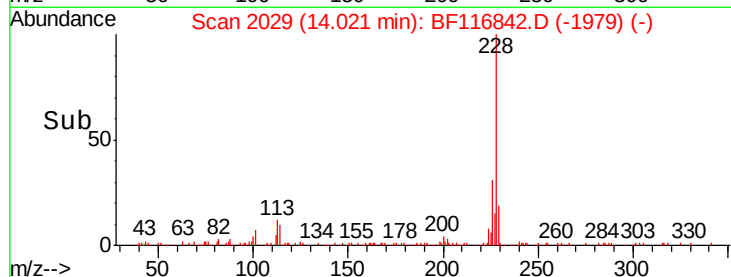
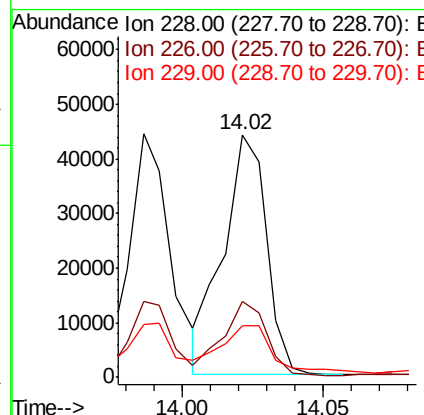
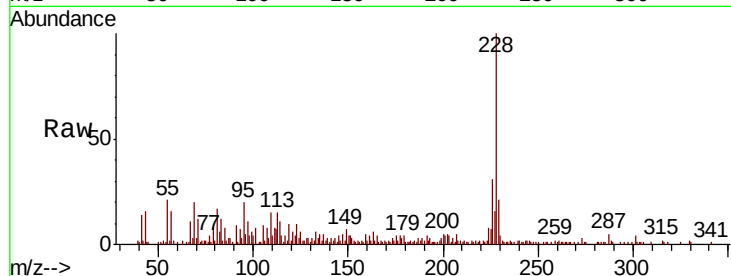
#83  
 Chrysene  
 Concen: 3.179 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-1-4-(0-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.4  | 24.0  | 36.0  |
| 229     | 21.0  | 15.4  | 23.0  |

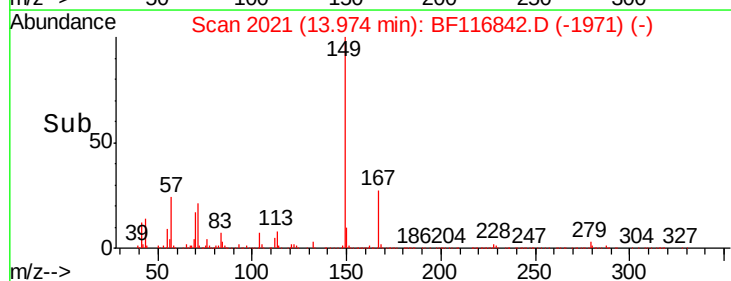
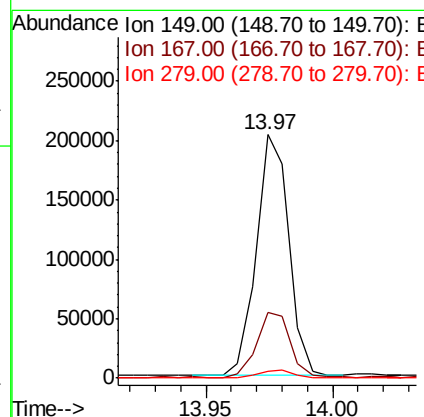
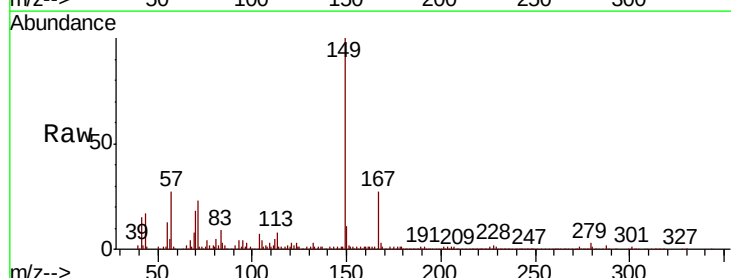
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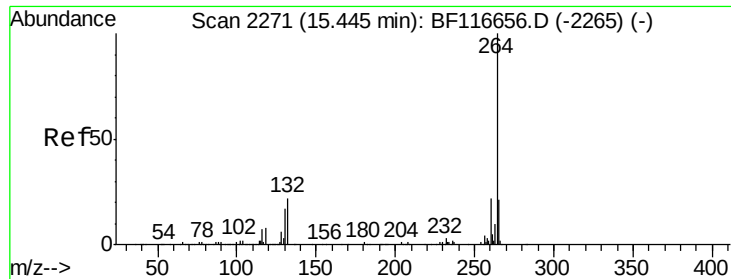
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#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 14.950 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.0  | 21.0  | 31.4  |
| 279     | 3.0   | 2.8   | 4.2   |





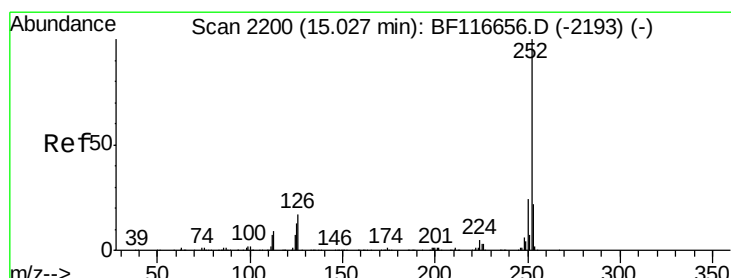
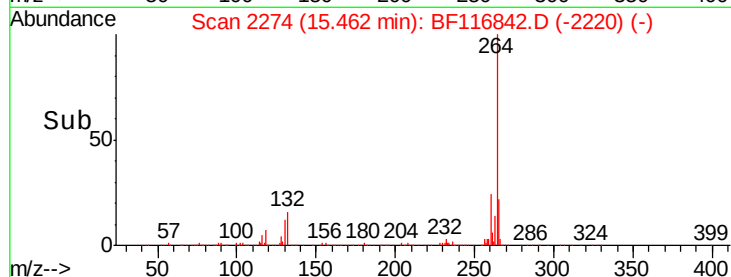
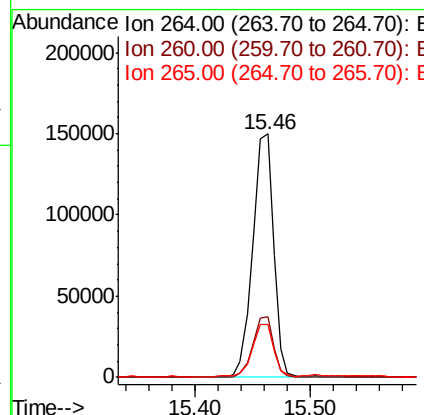
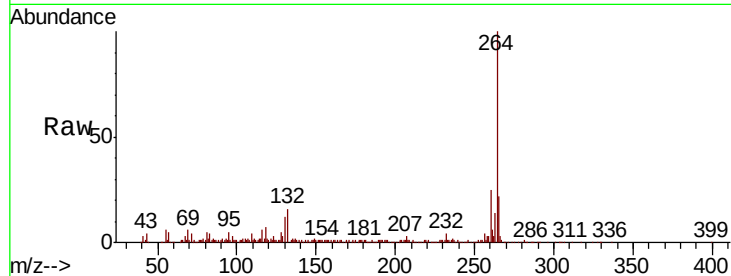
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.02 min  
Lab File: BF116842.D  
Acq: 5 Sep 2019 17:08

Instrument :  
BNA\_F  
ClientSampleId :  
T1-1-4-(0-1.5)

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 264     | 100  |       |      |       |       |
| 260     | 24.6 | 18.3  | 27.5 |       |       |
| 265     | 21.8 | 16.5  | 24.7 |       |       |

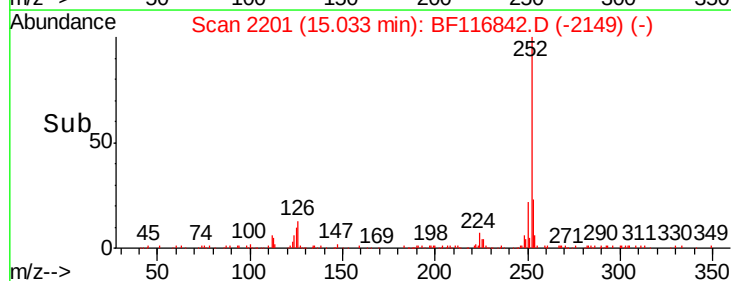
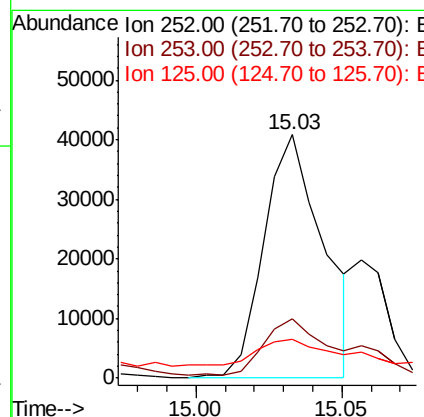
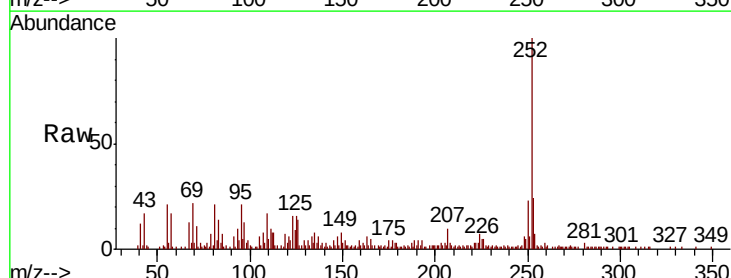
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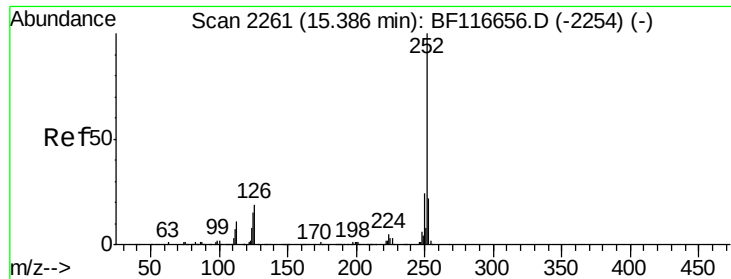
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#88  
Benzo(b)fluoranthene  
Concen: 5.040 ng m  
RT: 15.03 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: BF116842.D  
Acq: 5 Sep 2019 17:08

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 252     | 100  |       |       |       |       |
| 253     | 24.2 | 17.7  | 26.5  |       |       |
| 125     | 16.1 | 8.2   | 12.2# |       |       |





#90  
 Benzo(a)pyrene  
 Concen: 2.807 ng  
 RT: 15.39 min Scan# 2262  
 Delta R.T. 0.01 min  
 Lab File: BF116842.D  
 Acq: 5 Sep 2019 17:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-1-4-(0-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 18.1  | 27.1  |
| 125     | 18.1  | 9.8   | 14.8  |

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