

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\  
 Data File : BF120029.D  
 Acq On : 16 Apr 2020 12:07  
 Operator : MA/SJ  
 Sample : L2230-21 5X  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-12-B

Manual Integrations  
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 4/17/2020 1:48:05 PM

Quant Time: Apr 16 12:38:47 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 16 10:48:04 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|--------------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 140643   | 20.00 | ng    | 0.00           |
| 21) Naphthalene-d8             | 8.01  | 136  | 530160   | 20.00 | ng    | 0.00           |
| 39) Acenaphthene-d10           | 9.76  | 164  | 252073   | 20.00 | ng    | 0.00           |
| 64) Phenanthrene-d10           | 11.25 | 188  | 428136   | 20.00 | ng    | 0.00           |
| 76) Chrysene-d12               | 13.89 | 240  | 249611   | 20.00 | ng    | 0.00           |
| 87) Perylene-d12               | 15.32 | 264  | 255277   | 20.00 | ng    | 0.00           |
| System Monitoring Compounds    |       |      |          |       |       |                |
| 5) 2-Fluorophenol              | 5.32  | 112  | 158332   | 19.46 | ng    | 0.00           |
| 7) Phenol-d6                   | 6.35  | 99   | 202751   | 19.33 | ng    | -0.01          |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 124627   | 12.16 | ng    | -0.02          |
| 42) 2,4,6-Tribromophenol       | 10.55 | 330  | 42925    | 13.91 | ng    | -0.01          |
| 45) 2-Fluorobiphenyl           | 9.09  | 172  | 261204   | 14.71 | ng    | 0.00           |
| 79) Terphenyl-d14              | 12.84 | 244  | 210642   | 14.20 | ng    | -0.01          |
| Target Compounds               |       |      |          |       |       |                |
| 50) Dimethylphthalate          | 9.49  | 163  | 43318    | 2.222 | ng    | Qvalue<br># 99 |
| 71) Phenanthrene               | 11.27 | 178  | 102760   | 4.510 | ng    | 99             |
| 75) Fluoranthene               | 12.46 | 202  | 144746   | 5.887 | ng    | 96             |
| 78) Pyrene                     | 12.69 | 202  | 130020   | 6.179 | ng    | 98             |
| 81) Benzo(a)anthracene         | 13.88 | 228  | 64512    | 3.929 | ng    | 98             |
| 83) Chrysene                   | 13.92 | 228  | 56798    | 3.404 | ng    | 95             |
| 84) Bis(2-ethylhexyl)phthalate | 13.88 | 149  | 41796    | 3.023 | ng    | 95             |
| 85) Di-n-octyl phthalate       | 14.49 | 149  | 56471    | 2.399 | ng    | # 94           |
| 86) Indeno(1,2,3-cd)pyrene     | 16.69 | 276  | 40062    | 2.724 | ng    | 96             |
| 88) Benzo(b)fluoranthene       | 14.90 | 252  | 79643m   | 4.337 | ng    |                |
| 90) Benzo(a)pyrene             | 15.25 | 252  | 58714    | 3.803 | ng    | # 94           |
| 92) Benzo(a,h,i)perylene       | 17.11 | 276  | 37381    | 2.769 | ng    | # 94           |

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

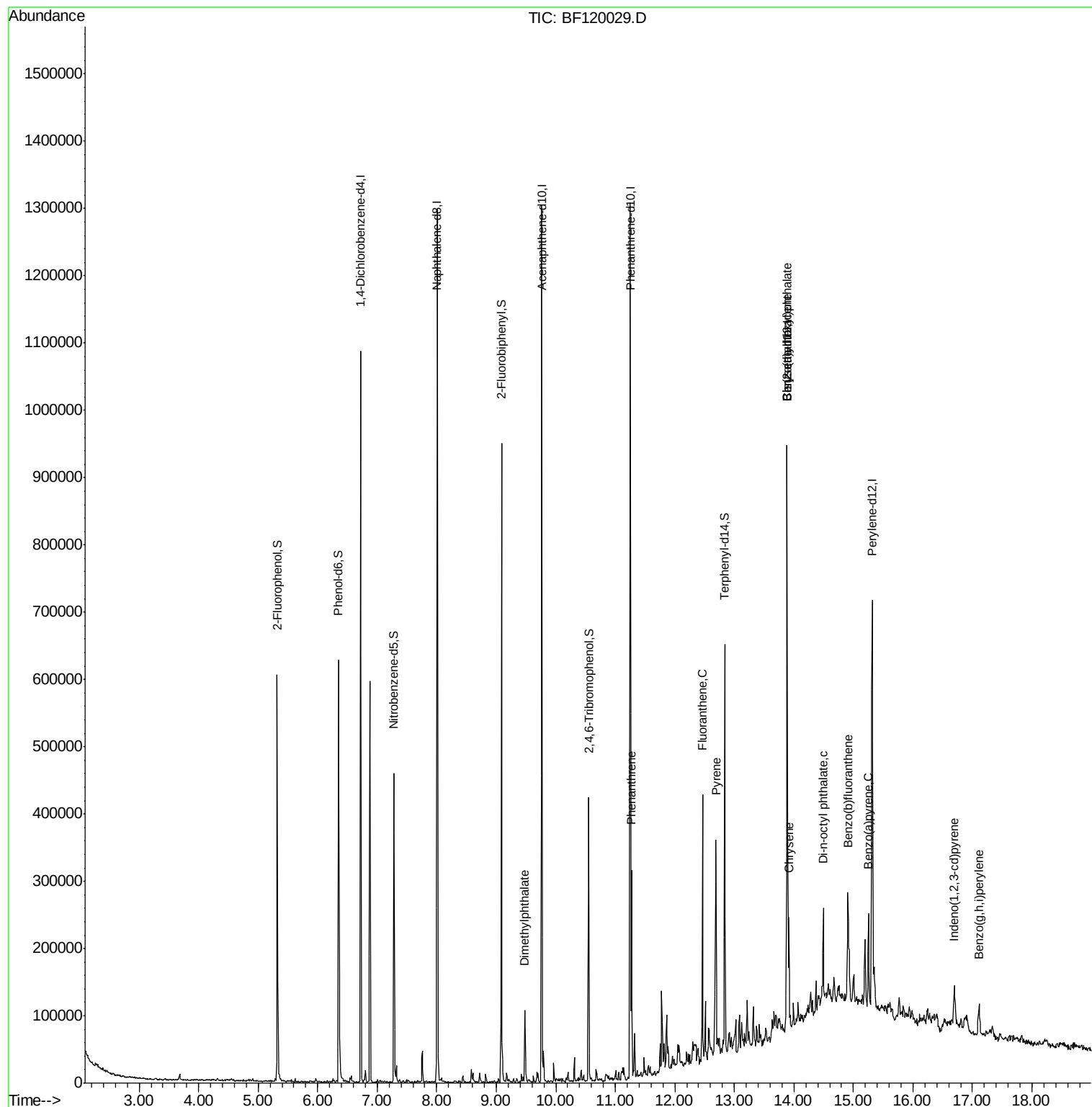
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\  
Data File : BF120029.D  
Acq On : 16 Apr 2020 12:07  
Operator : MA/SJ  
Sample : L2230-21 5X  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

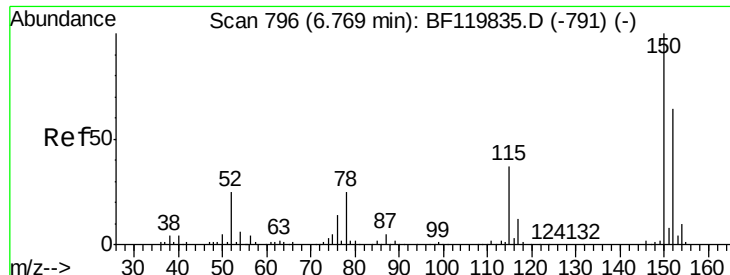
Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

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Quant Time: Apr 16 12:38:47 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Apr 16 10:48:04 2020  
Response via : Initial Calibration





#1

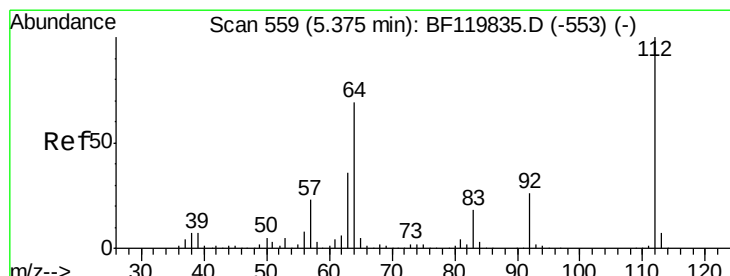
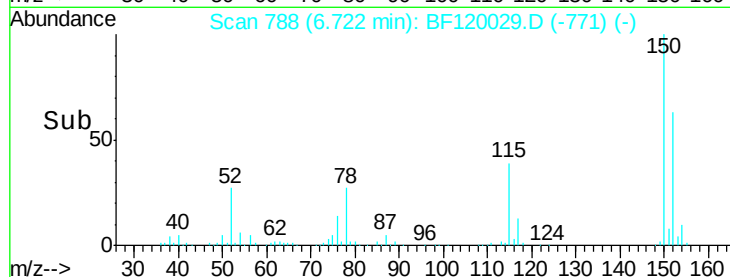
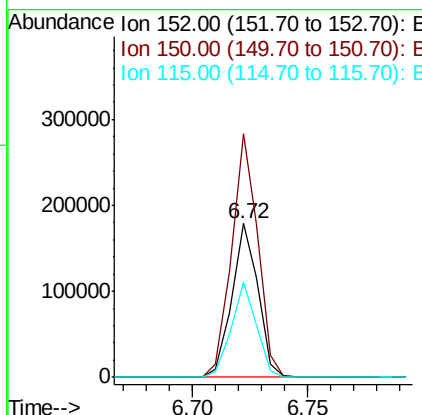
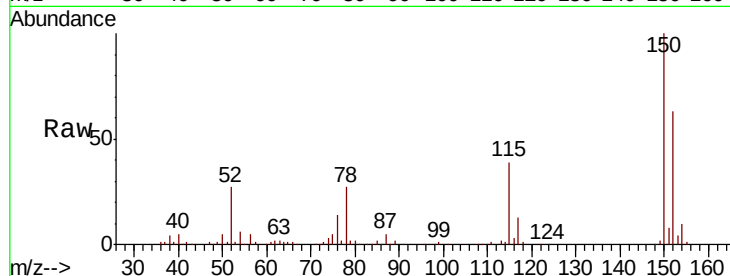
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. 0.00 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 124.8 | 187.2 |
| 115     | 61.7  | 46.5  | 69.7  |

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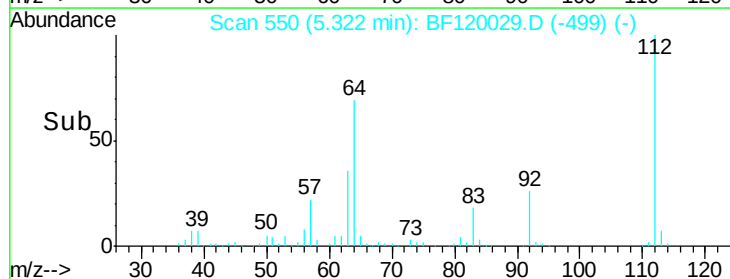
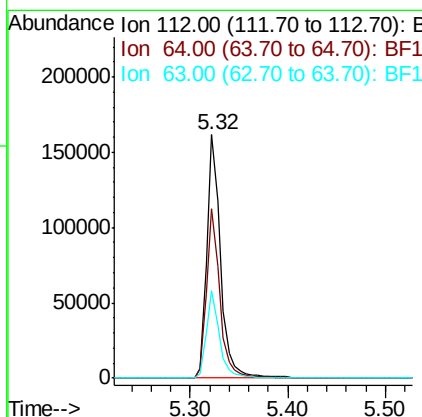
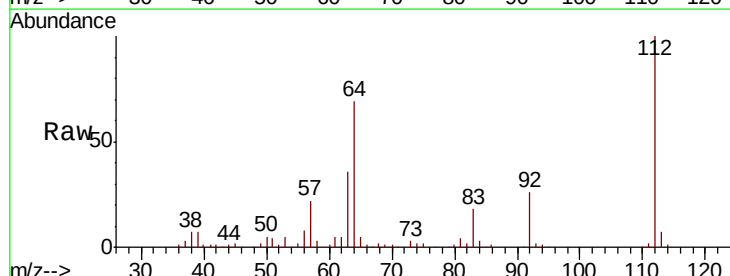
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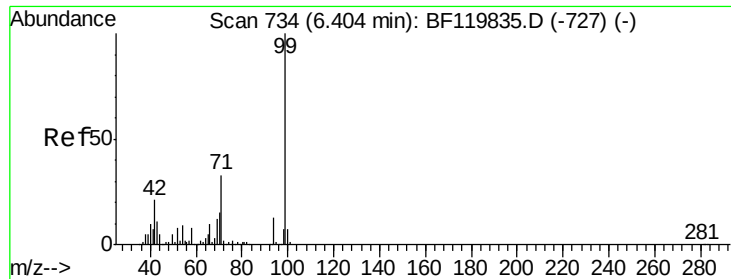


#5

2-Fluorophenol  
Concen: 19.455 ng  
RT: 5.32 min Scan# 550  
Delta R.T. 0.00 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.3  | 55.5  | 83.3  |
| 63      | 35.8  | 29.1  | 43.7  |





#7

Phenol-d6

Concen: 19.335 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120029.D

Acq: 16 Apr 2020 12:07

Instrument :

BNA\_F

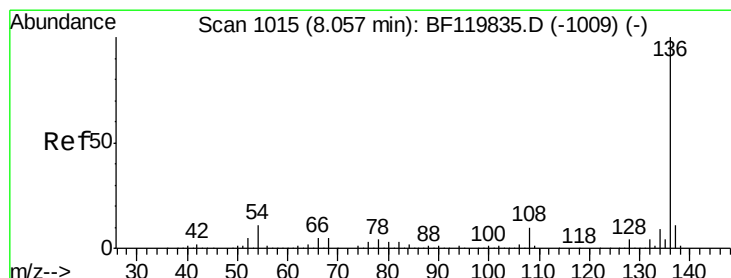
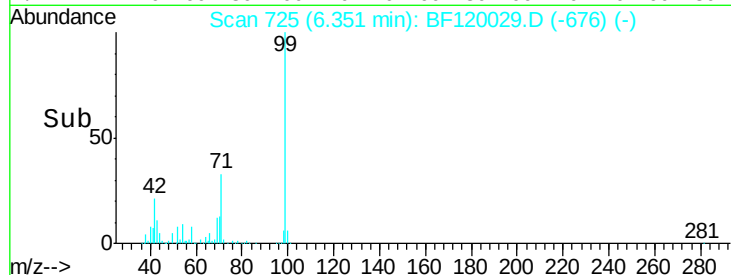
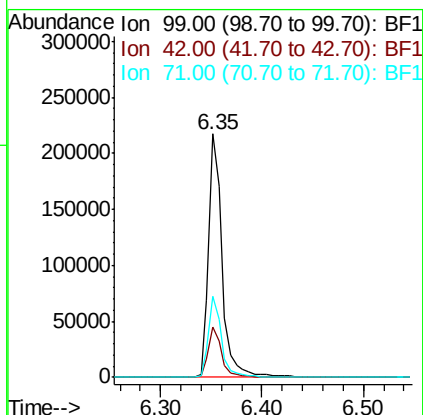
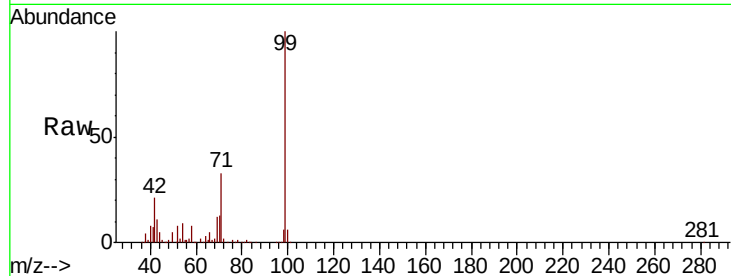
ClientSampleId :

TP-12-B

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 202751 |       |       |
| 42      | 20.8 | 16.9  | 25.3   |       |       |
| 71      | 33.5 | 26.3  | 39.5   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

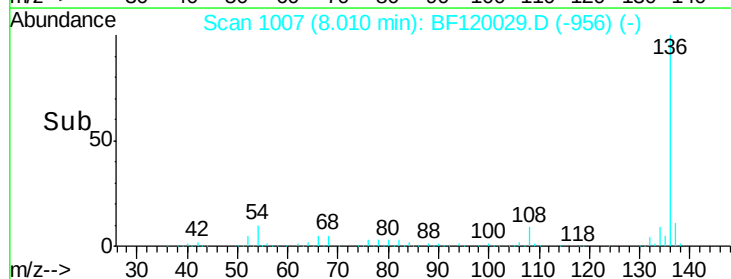
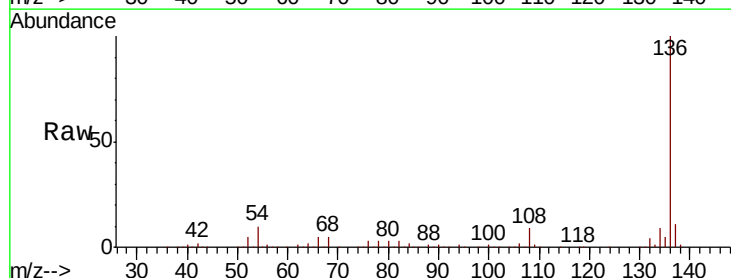
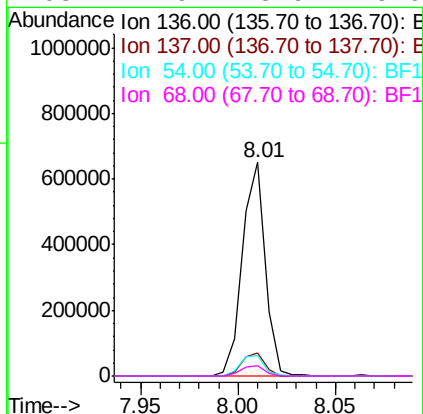
RT: 8.01 min Scan# 1007

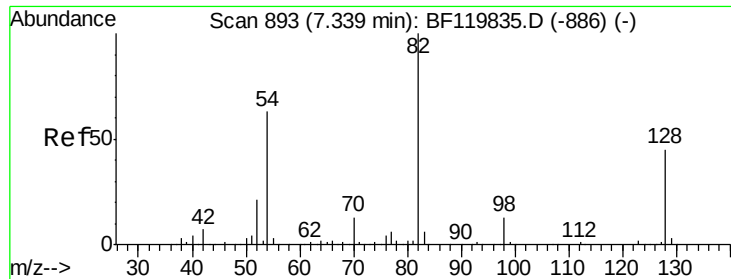
Delta R.T. 0.00 min

Lab File: BF120029.D

Acq: 16 Apr 2020 12:07

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 530160 |       |       |
| 137     | 10.9 | 8.7   | 13.1   |       |       |
| 54      | 9.5  | 8.5   | 12.7   |       |       |
| 68      | 4.9  | 3.9   | 5.9    |       |       |





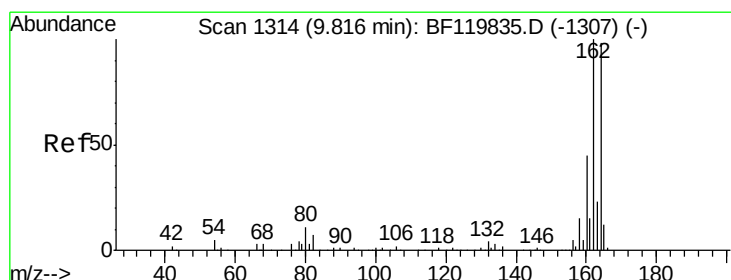
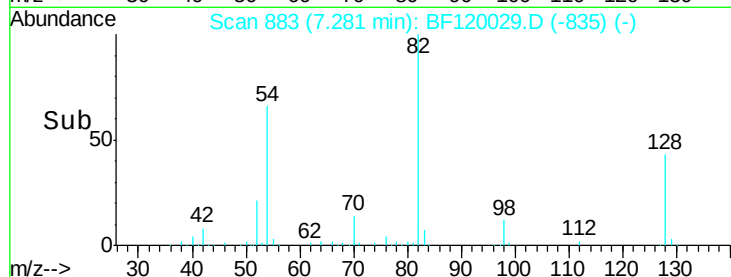
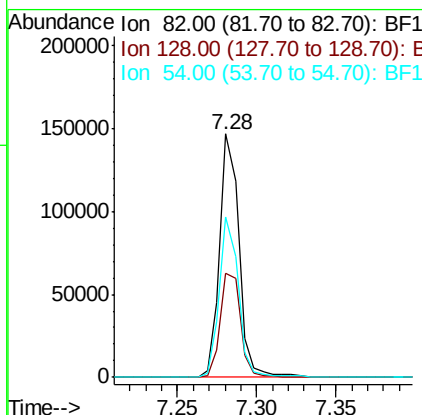
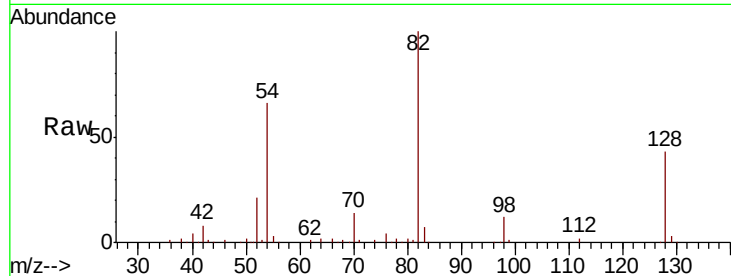
#23  
Nitrobenzene-d5  
Concen: 12.161 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.8  | 36.2  | 54.4  |
| 54      | 66.0  | 50.4  | 75.6  |

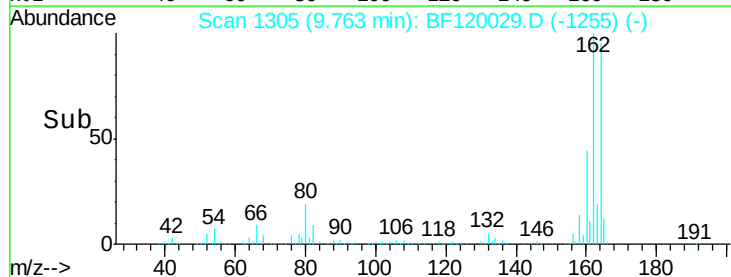
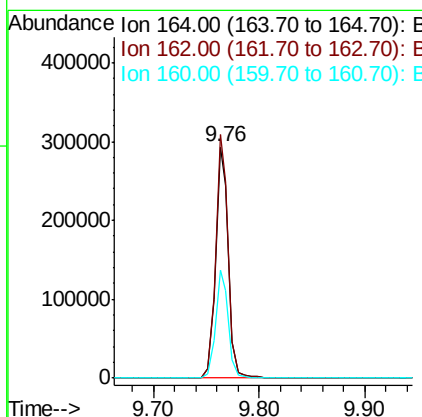
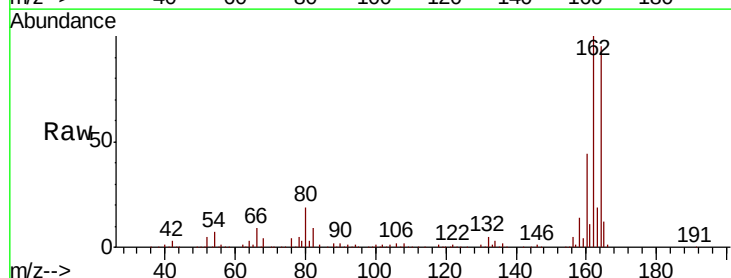
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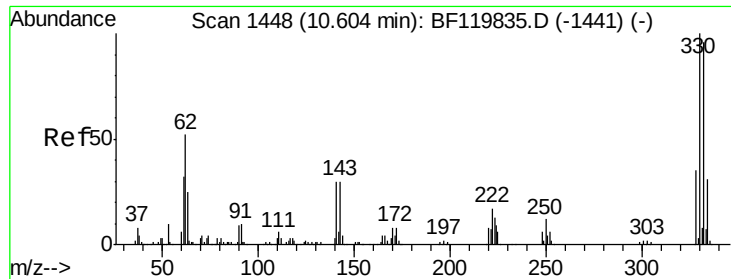
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.4 | 81.9  | 122.9 |
| 160     | 46.6  | 36.6  | 54.8  |





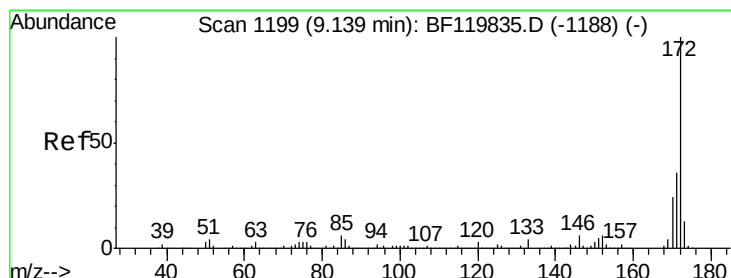
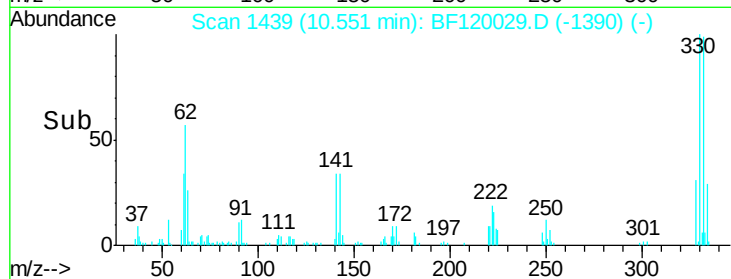
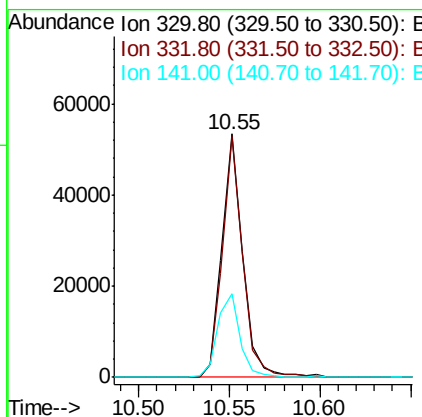
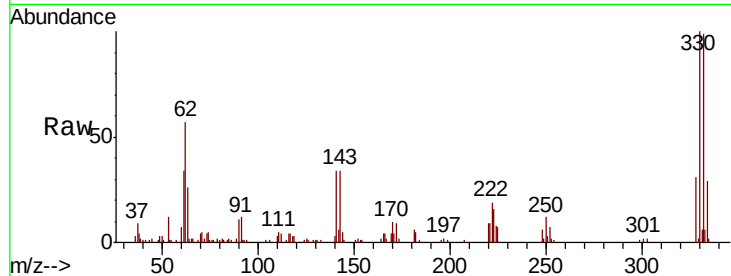
#42  
 2,4,6-Tribromophenol  
 Concen: 13.909 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF120029.D  
 Acq: 16 Apr 2020 12:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.3  | 76.8  | 115.2 |
| 141     | 36.6  | 25.1  | 37.7  |

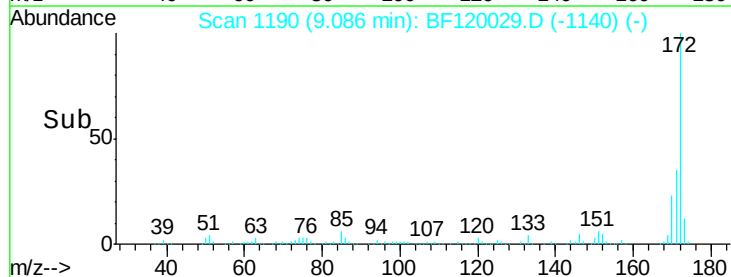
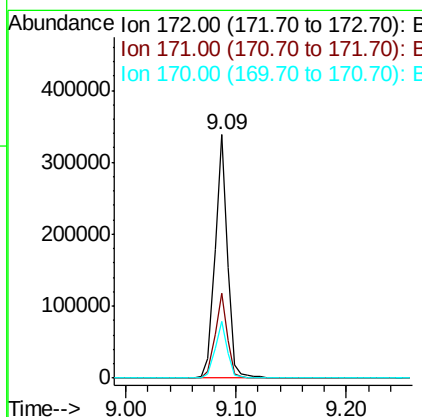
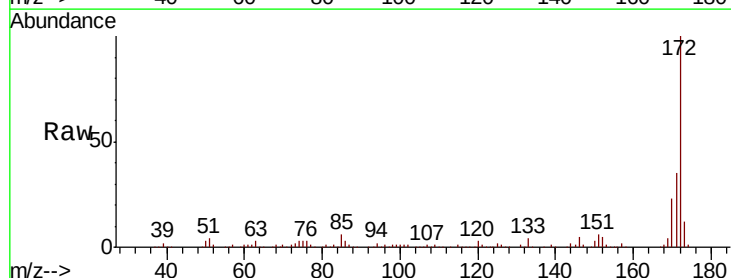
Manual Integrations  
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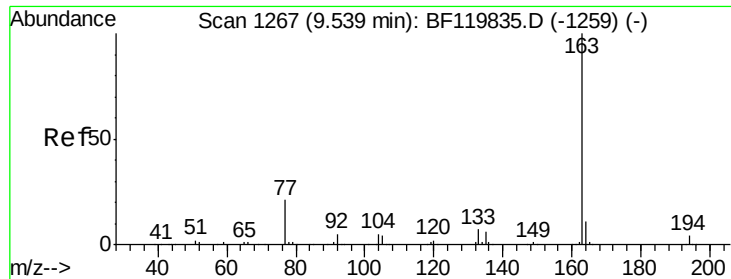
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#45  
 2-Fluorobiphenyl  
 Concen: 14.712 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF120029.D  
 Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 28.9  | 43.3  |
| 170     | 23.2  | 19.4  | 29.2  |





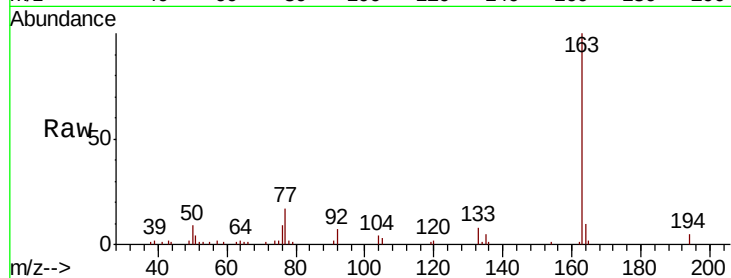
#50  
Dimethylphthalate  
Concen: 2.222 ng  
RT: 9.49 min Scan# 1258  
Delta R.T. -0.02 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

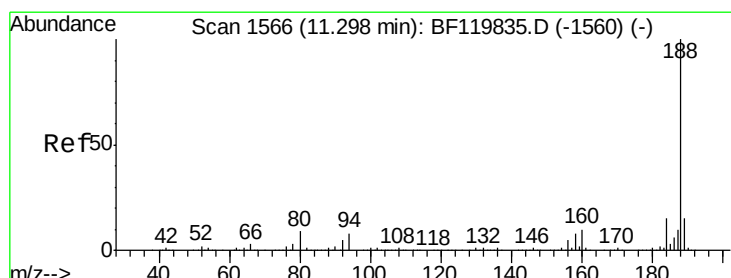
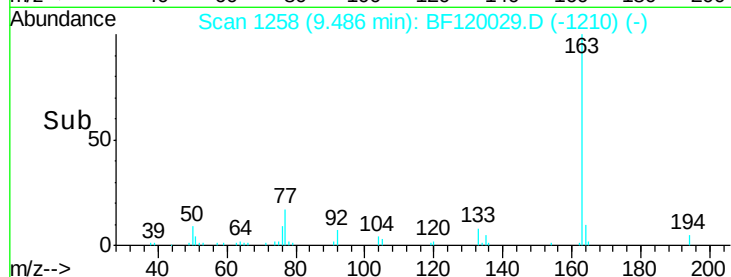
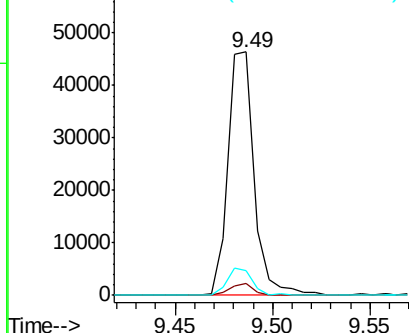
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.0   | 3.0   | 4.4#  |
| 164     | 10.3  | 8.4   | 12.6  |

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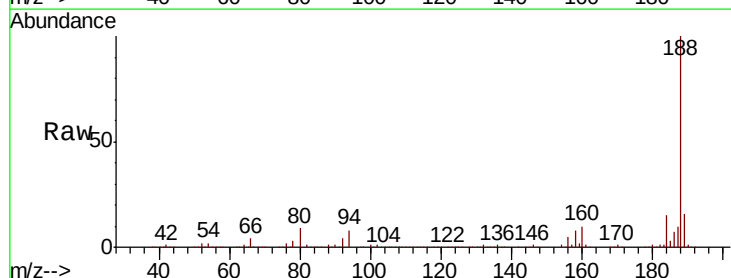


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

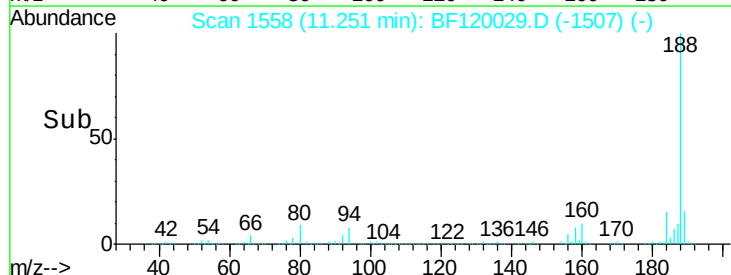
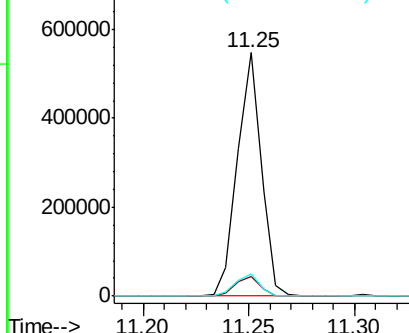


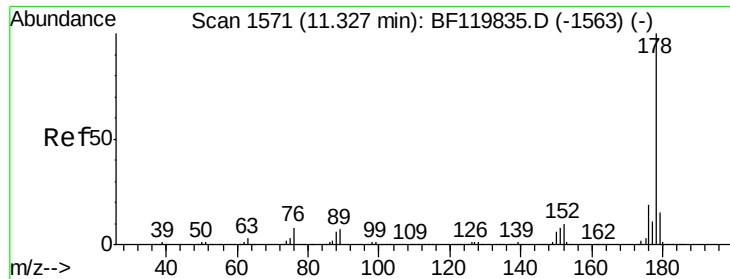
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. 0.00 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.2   | 6.7   | 10.1  |
| 80      | 9.1   | 7.4   | 11.2  |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





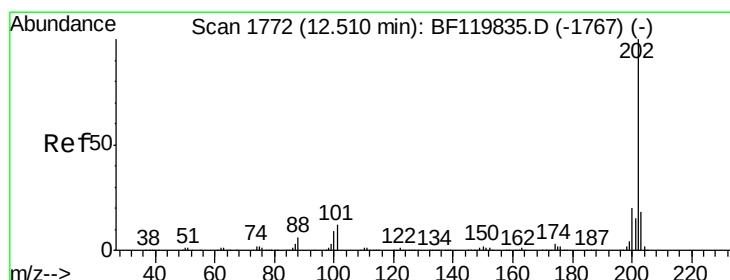
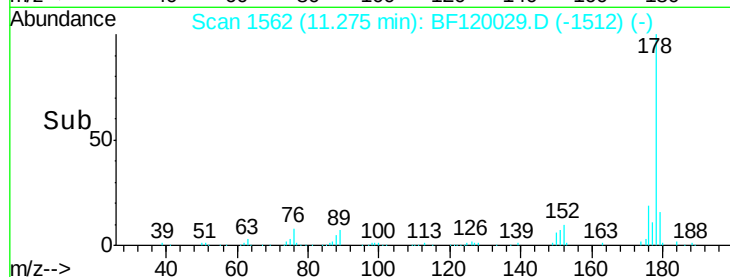
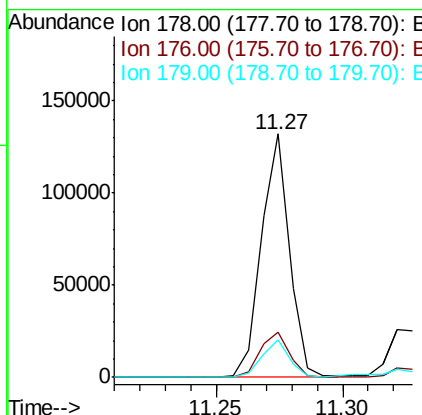
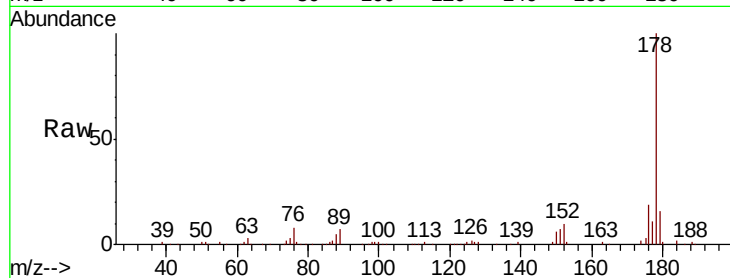
#71  
Phenanthrene  
Concen: 4.510 ng  
RT: 11.27 min Scan# 1562  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.1  | 22.7  |
| 179     | 15.6  | 12.2  | 18.4  |

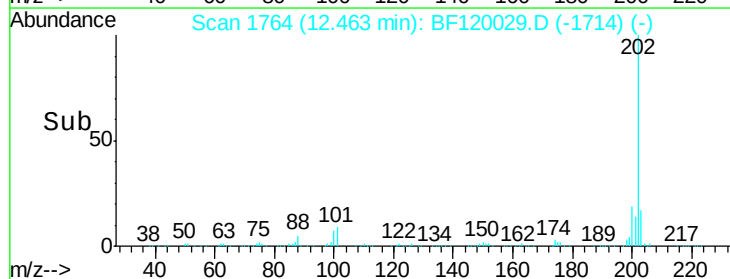
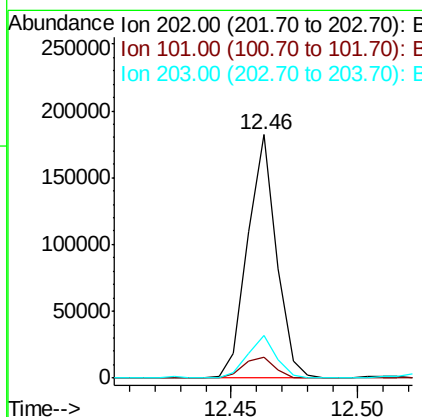
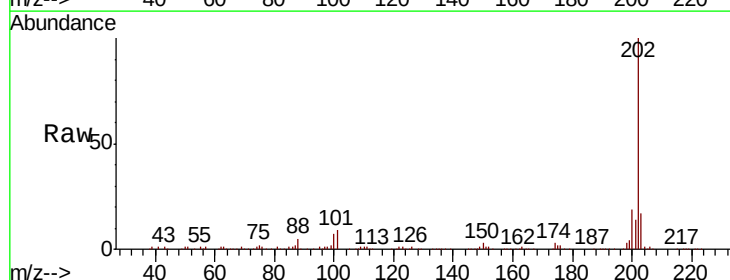
Manual Integrations  
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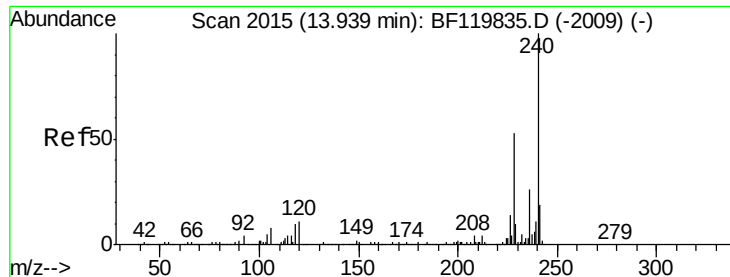


#75  
Fluoranthene  
Concen: 5.887 ng  
RT: 12.46 min Scan# 1764  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.6   | 0.0   | 32.3  |
| 203     | 17.3  | 0.0   | 37.6  |







#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF120029.D

Acq: 16 Apr 2020 12:07

Instrument :

BNA\_F

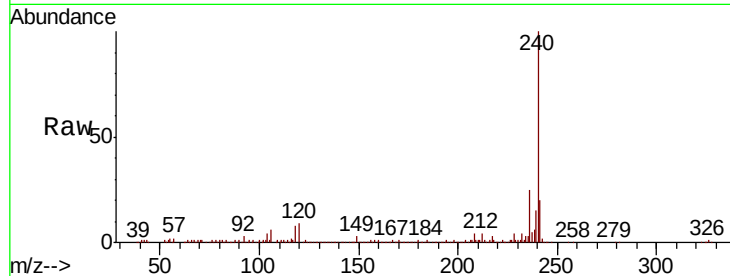
ClientSampled :

TP-12-B

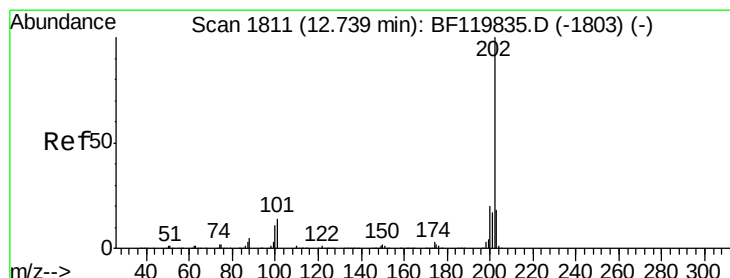
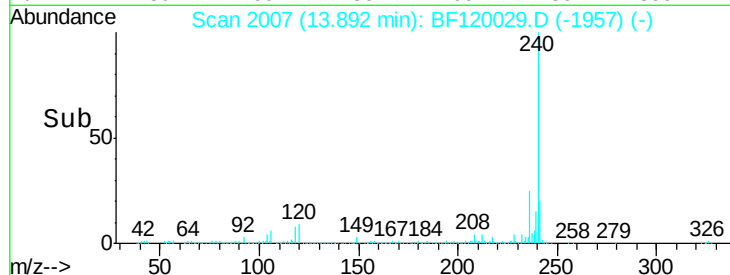
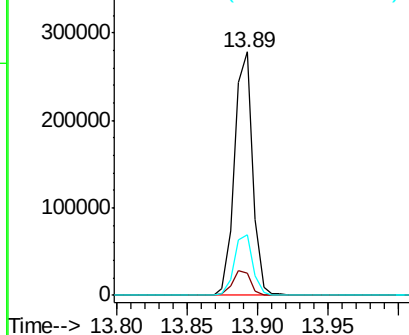
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 249611 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.9   | 9.0   | 13.6#  |
| 236       | 25.0  | 20.7  | 31.1   |

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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



#78

Pyrene

Concen: 6.179 ng

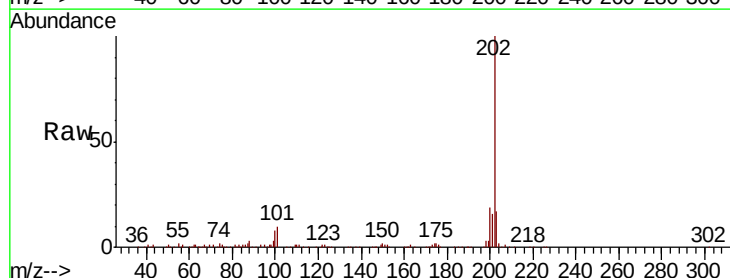
RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

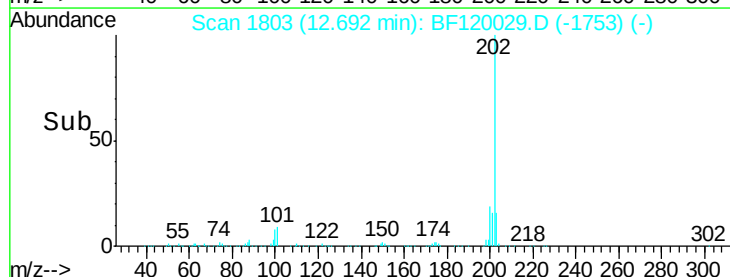
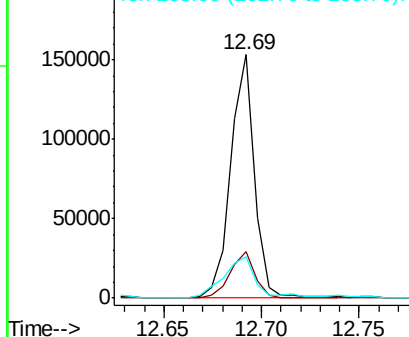
Lab File: BF120029.D

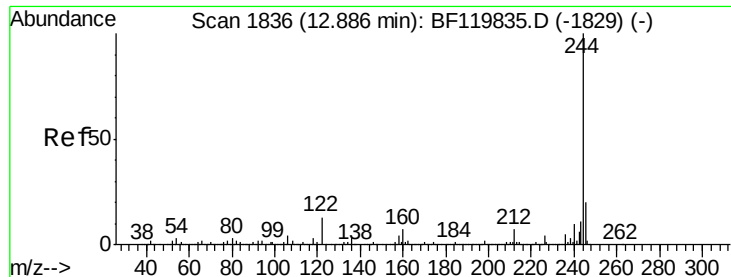
Acq: 16 Apr 2020 12:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 130020 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 19.1  | 16.2  | 24.2   |
| 203       | 17.0  | 14.1  | 21.1   |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





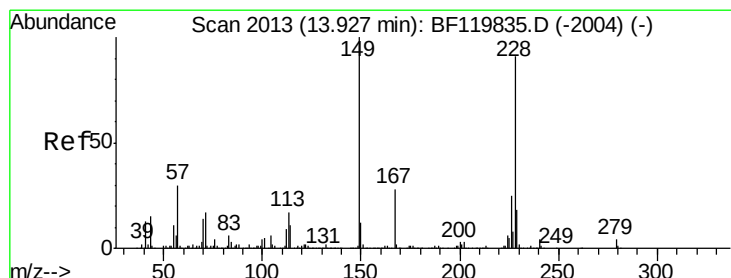
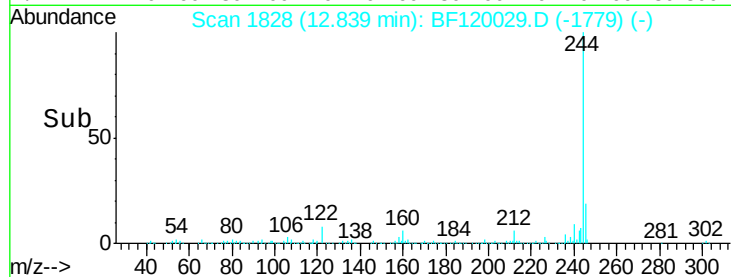
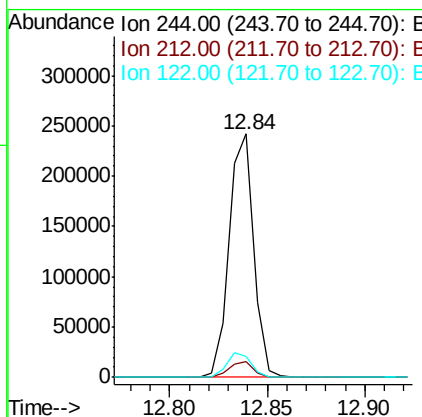
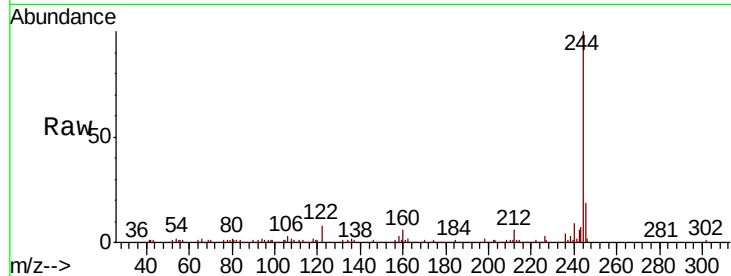
#79  
 Terphenyl-d14  
 Concen: 14.200 ng  
 RT: 12.84 min Scan# 1828  
 Delta R.T. -0.01 min  
 Lab File: BF120029.D  
 Acq: 16 Apr 2020 12:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.2   | 5.4   | 8.0   |
| 122     | 8.4   | 10.3  | 15.5  |

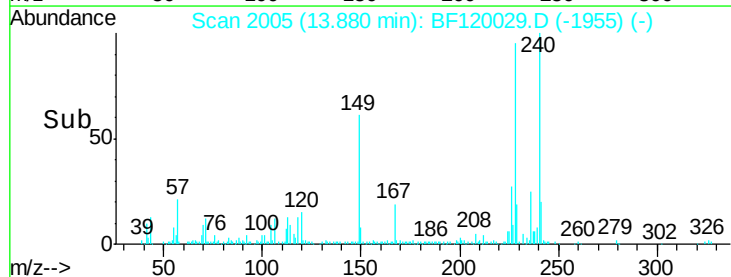
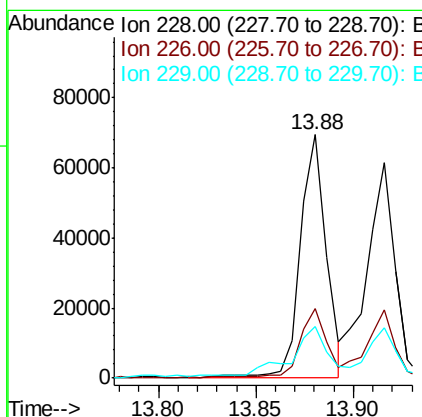
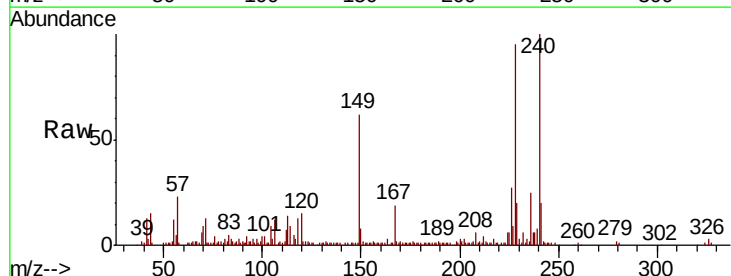
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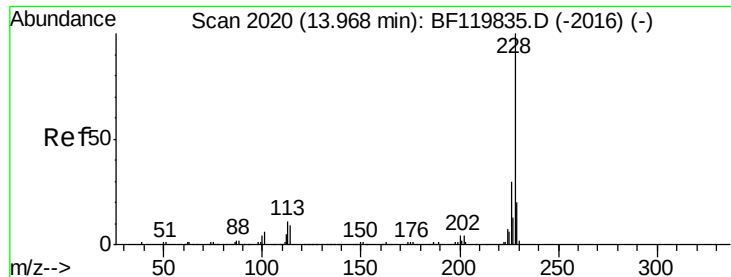
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#81  
 Benzo(a)anthracene  
 Concen: 3.929 ng  
 RT: 13.88 min Scan# 2005  
 Delta R.T. -0.01 min  
 Lab File: BF120029.D  
 Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 21.9  | 32.9  |
| 229     | 21.2  | 15.9  | 23.9  |





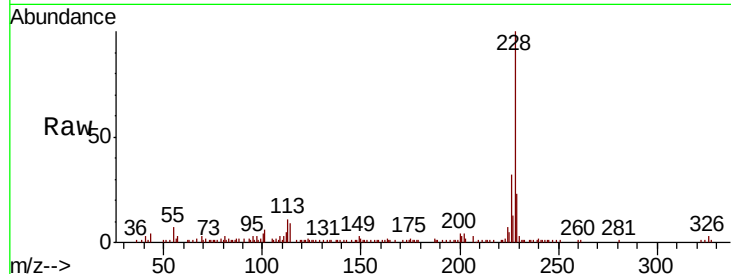
#83  
Chrysene  
Concen: 3.404 ng  
RT: 13.92 min Scan# 2011  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.7  | 24.2  | 36.2  |
| 229     | 23.2  | 15.9  | 23.9  |

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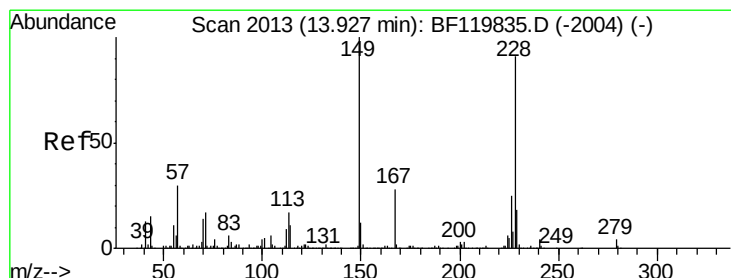
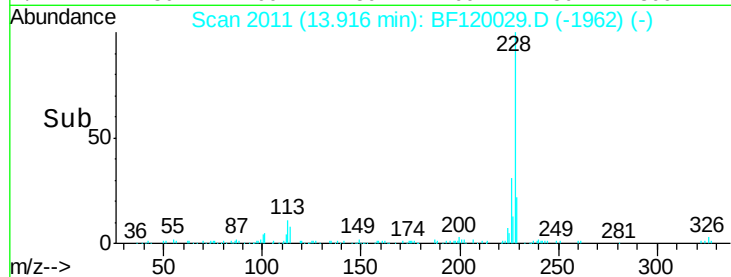
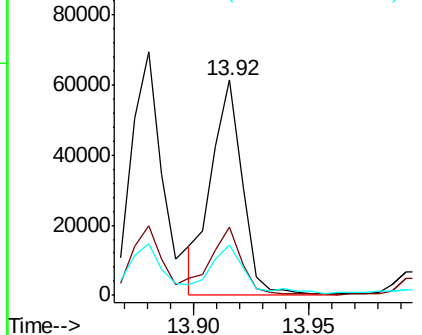


Abundance

Ion 228.00 (227.70 to 228.70): E

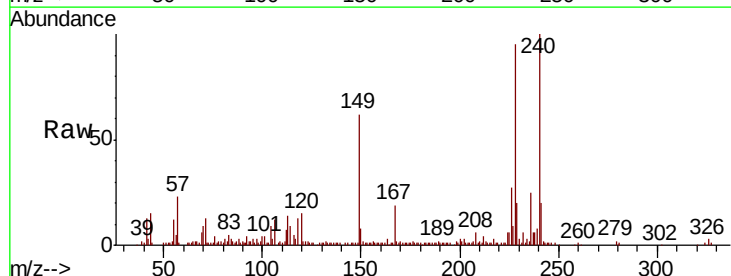
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 3.023 ng  
RT: 13.88 min Scan# 2005  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 30.4  | 22.2  | 33.2  |
| 279     | 3.9   | 3.4   | 5.0   |

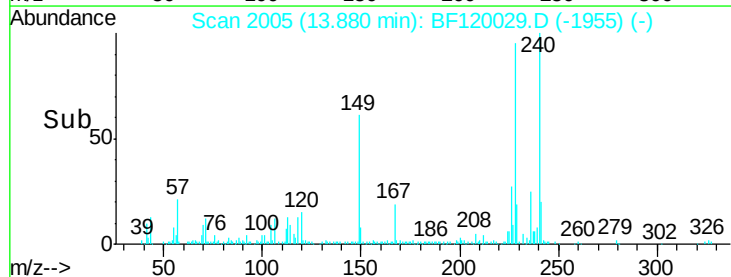
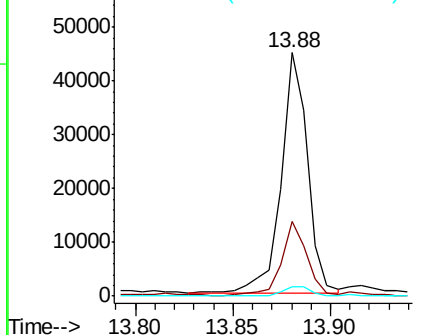


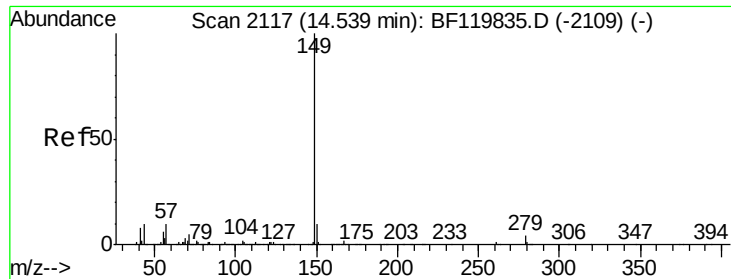
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 2.399 ng

RT: 14.49 min Scan# 2109

Delta R.T. -0.01 min

Lab File: BF120029.D

Acq: 16 Apr 2020 12:07

Instrument :

BNA\_F

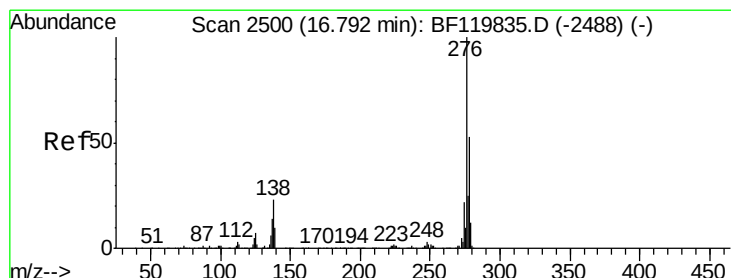
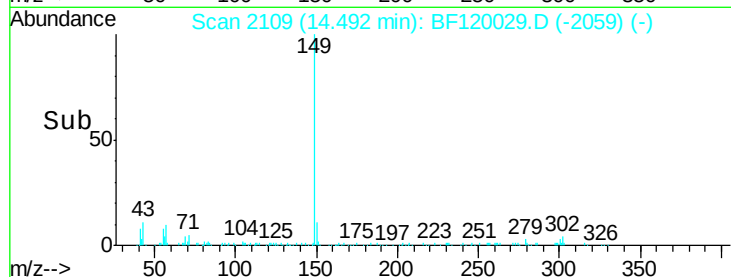
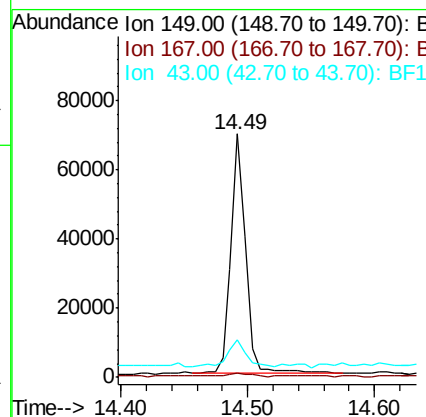
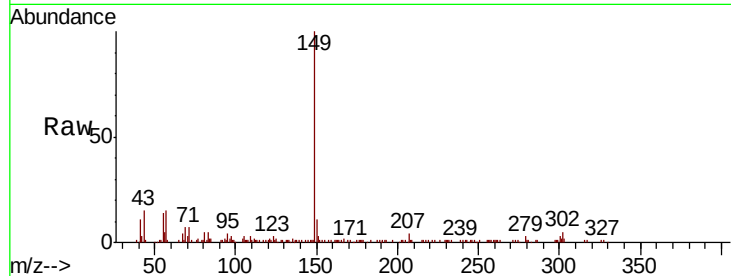
ClientSampleId :

TP-12-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 56471 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 3.2   | 1.2   | 1.8#  |
| 43        | 14.0  | 9.2   | 13.8# |

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#86

Indeno(1,2,3-cd)pyrene

Concen: 2.724 ng

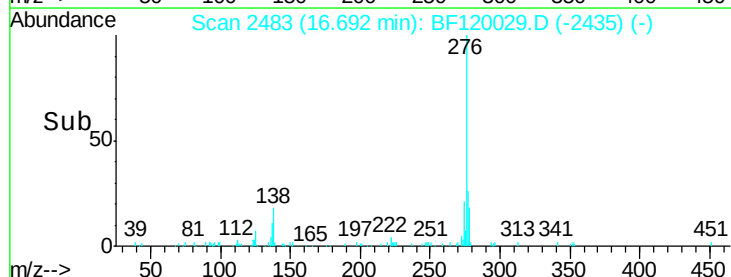
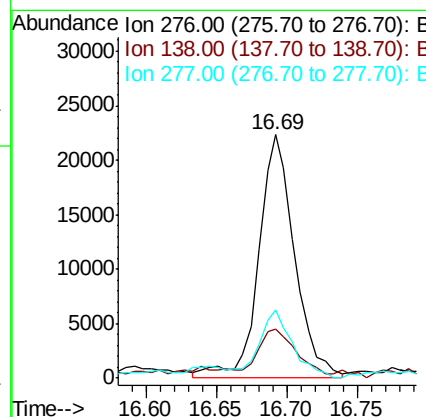
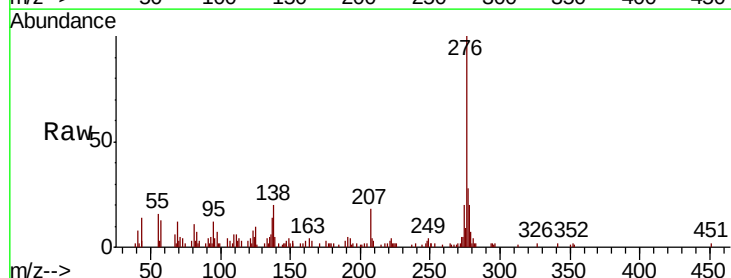
RT: 16.69 min Scan# 2483

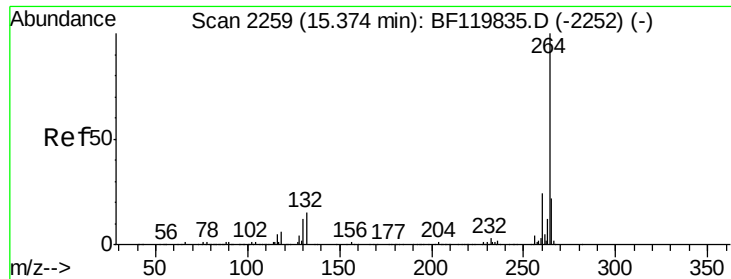
Delta R.T. -0.02 min

Lab File: BF120029.D

Acq: 16 Apr 2020 12:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 40062 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.7  | 18.0  | 27.0  |
| 277       | 24.9  | 20.1  | 30.1  |





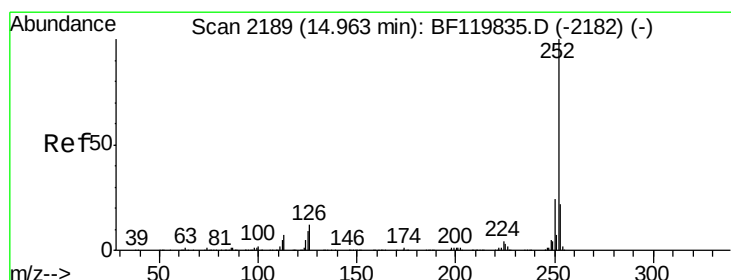
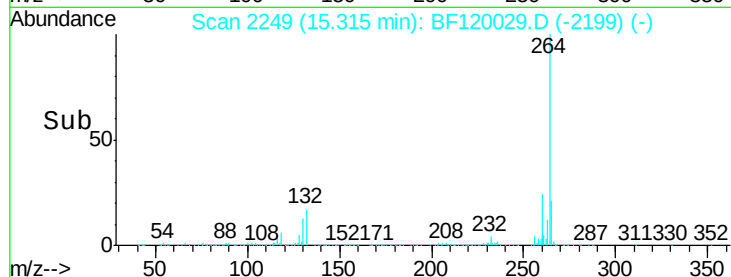
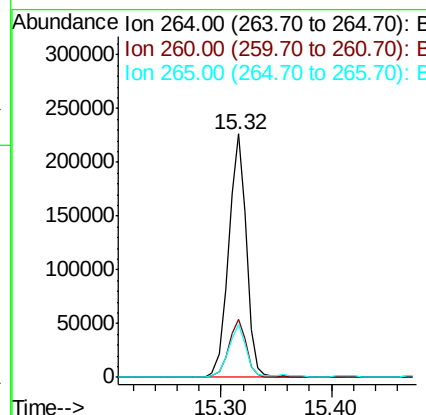
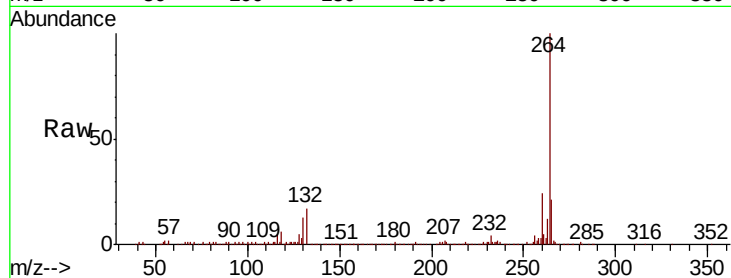
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.32 min Scan# 2249  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.3  | 28.9  |
| 265     | 21.5  | 17.6  | 26.4  |

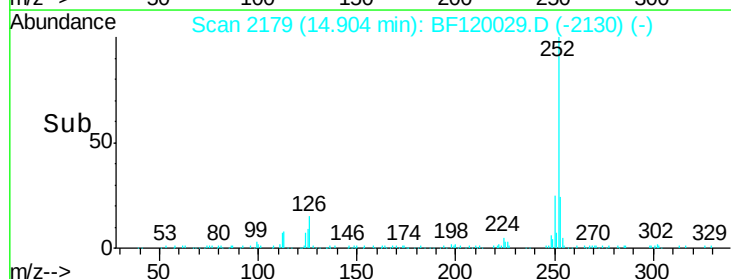
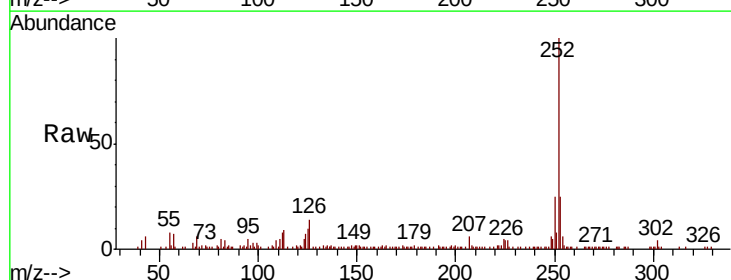
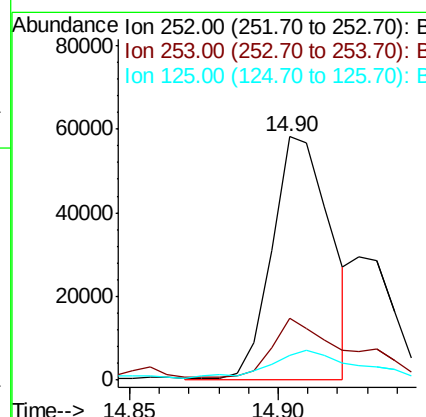
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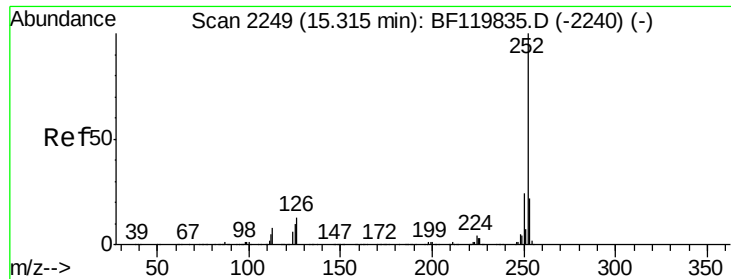
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#88  
Benzo(b)fluoranthene  
Concen: 4.337 ng m  
RT: 14.90 min Scan# 2179  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 17.7  | 26.5  |
| 125     | 10.1  | 7.4   | 11.2  |





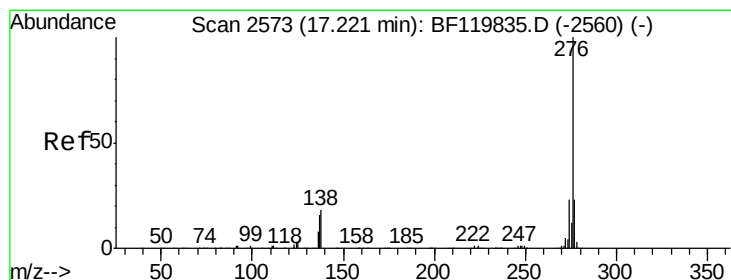
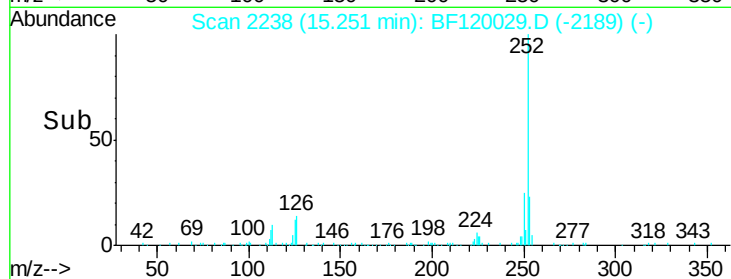
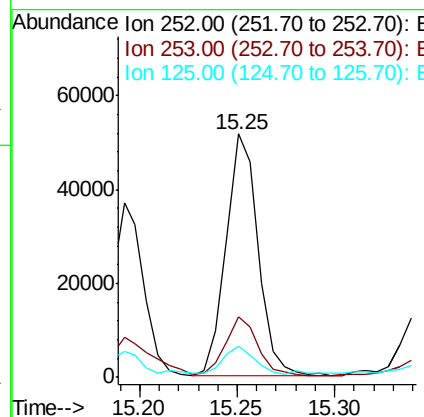
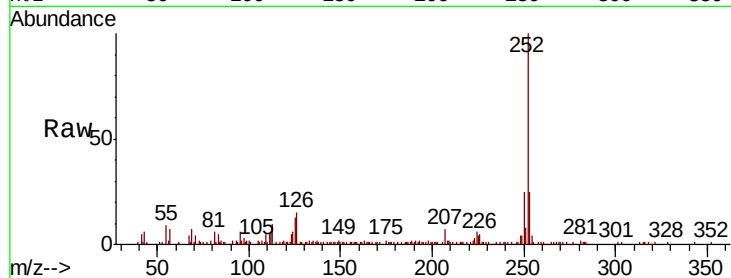
#90  
Benzo(a)pyrene  
Concen: 3.803 ng  
RT: 15.25 min Scan# 2238  
Delta R.T. -0.01 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 17.4  | 26.2  |
| 125     | 12.9  | 8.3   | 12.5# |

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#92  
Benzo(g,h,i)perylene  
Concen: 2.769 ng  
RT: 17.11 min Scan# 2554  
Delta R.T. -0.02 min  
Lab File: BF120029.D  
Acq: 16 Apr 2020 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 18.5  | 27.7  |
| 138     | 23.4  | 14.6  | 22.0# |

