

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021519\  
 Data File : BF112586.D  
 Acq On : 15 Feb 2019 18:42  
 Operator : JU/SJ  
 Sample : K1490-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1-214

Manual Integrations  
 APPROVED

Sohil  
 2/18/2019 12:06:34 PM

Quant Time: Feb 15 23:58:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 97294    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.12  | 136  | 387435   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.87  | 164  | 206566   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 430880   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.02 | 240  | 287901   | 20.00 | ng    | 0.01     |
| 87) Perylene-d12          | 15.50 | 264  | 265097   | 20.00 | ng    | 0.02     |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.47  | 112 | 1103267 | 240.86 | ng | 0.00  |
| 7) Phenol-d6                | 6.49  | 99  | 1421782 | 223.38 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.40  | 82  | 947964  | 140.98 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330 | 564173  | 234.64 | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 9.19  | 172 | 1774555 | 121.50 | ng | -0.01 |
| 79) Terphenyl-d14           | 12.96 | 244 | 2127410 | 139.17 | ng | 0.00  |

|                            |       |     |         |        |    |      |
|----------------------------|-------|-----|---------|--------|----|------|
| Target Compounds           |       |     |         | Qvalue |    |      |
| 10) Phenol                 | 6.50  | 94  | 27436   | 3.929  | ng | # 77 |
| 31) Naphthalene            | 8.13  | 128 | 103369  | 5.705  | ng | 98   |
| 37) 2-Methylnaphthalene    | 8.83  | 142 | 53082   | 4.280  | ng | 91   |
| 38) 1-Methylnaphthalene    | 8.93  | 142 | 38993   | 3.280  | ng | 99   |
| 50) Dimethylphthalate      | 9.58  | 163 | 116173  | 7.239  | ng | 98   |
| 52) Acenaphthene           | 9.90  | 154 | 53653   | 4.376  | ng | 96   |
| 55) Dibenzofuran           | 10.07 | 168 | 62265   | 3.323  | ng | # 92 |
| 58) Fluorene               | 10.42 | 166 | 60995   | 4.350  | ng | # 96 |
| 71) Phenanthrene           | 11.39 | 178 | 982475  | 43.859 | ng | 98   |
| 72) Anthracene             | 11.44 | 178 | 320625  | 14.369 | ng | 99   |
| 73) Carbazole              | 11.60 | 167 | 79637   | 3.618  | ng | 98   |
| 75) Fluoranthene           | 12.60 | 202 | 2242150 | 93.321 | ng | 98   |
| 78) Pyrene                 | 12.82 | 202 | 1987104 | 99.691 | ng | 100  |
| 81) Benzo(a)anthracene     | 14.01 | 228 | 1001545 | 59.178 | ng | 99   |
| 83) Chrysene               | 14.04 | 228 | 792822  | 49.076 | ng | 97   |
| 86) Indeno(1,2,3-cd)pyrene | 17.00 | 276 | 308311  | 24.085 | ng | # 91 |
| 88) Benzo(b)fluoranthene   | 15.07 | 252 | 854396m | 53.891 | ng |      |
| 89) Benzo(k)fluoranthene   | 15.09 | 252 | 259373m | 17.080 | ng |      |
| 90) Benzo(a)pyrene         | 15.44 | 252 | 572498  | 40.132 | ng | 97   |
| 91) Dibenzo(a,h)anthracene | 17.00 | 278 | 95525m  | 8.309  | ng |      |
| 92) Benzo(g,h,i)perylene   | 17.46 | 276 | 267141  | 24.628 | ng | 97   |

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

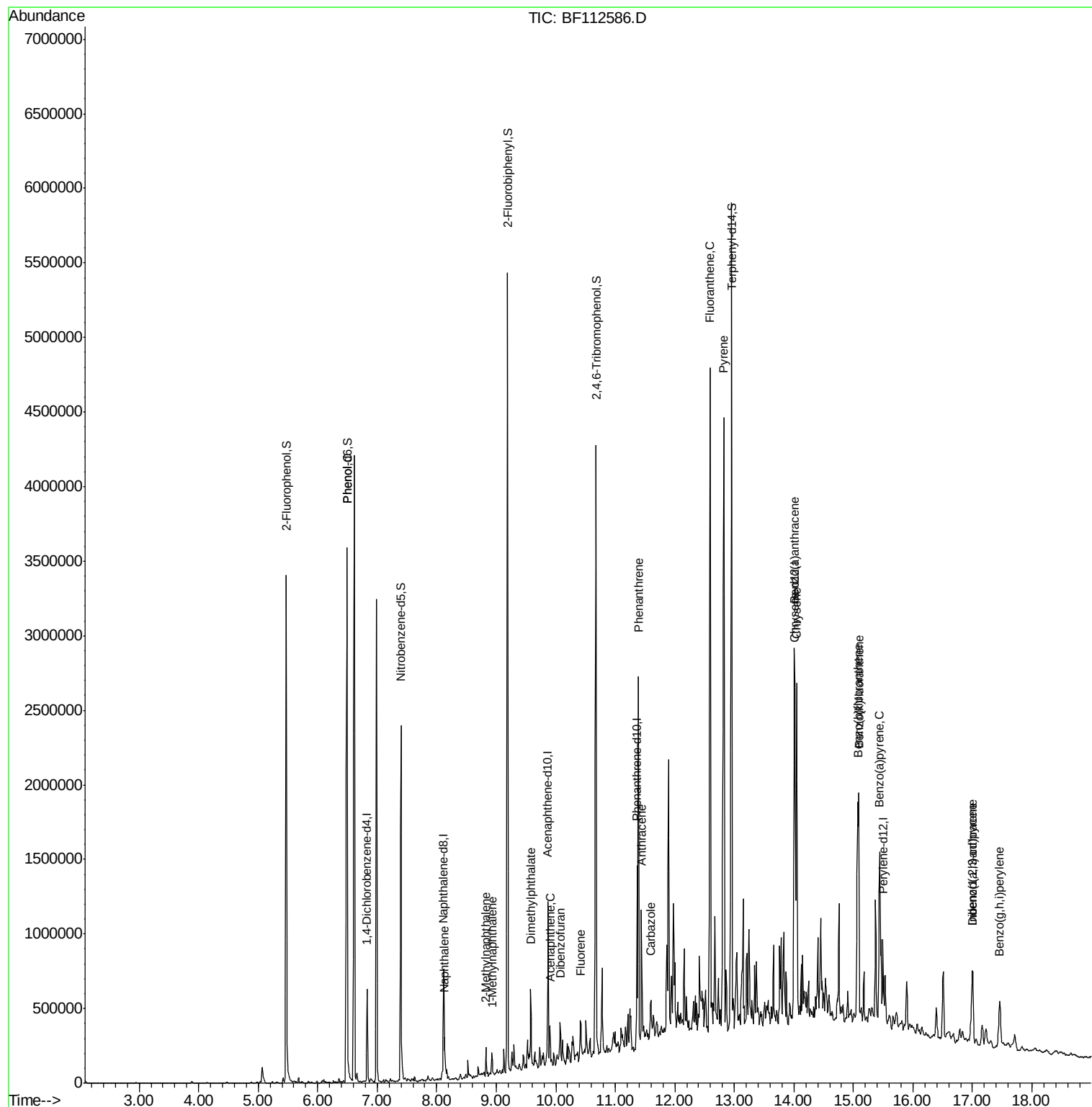
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021519\  
Data File : BF112586.D  
Acq On : 15 Feb 2019 18:42  
Operator : JU/SJ  
Sample : K1490-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

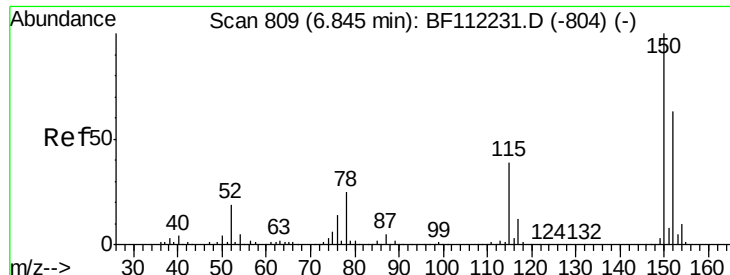
Instrument :  
BNA\_F  
ClientSampleID :  
TP-1-214

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2/18/2019 12:06:34 PM

Quant Time: Feb 15 23:58:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 28 10:38:18 2019  
Response via : Initial Calibration





#1

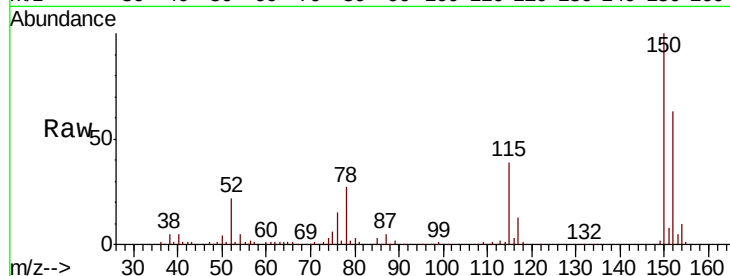
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. -0.02 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.2 | 127.4 | 191.0 |
| 115     | 62.8  | 45.5  | 68.3  |

Manual Integrations  
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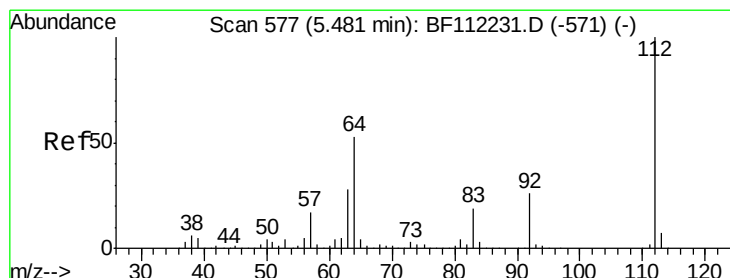
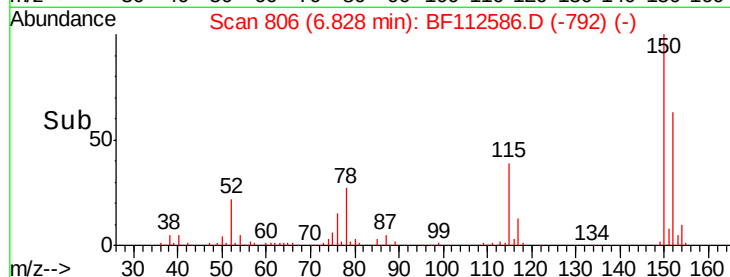
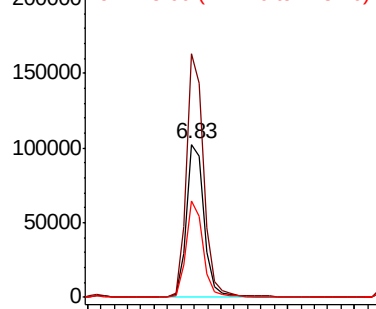


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

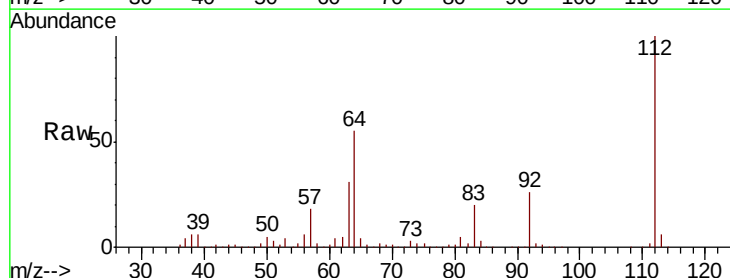
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 240.859 ng  
RT: 5.47 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.0  | 45.7  | 68.5  |
| 63      | 30.5  | 23.6  | 35.4  |

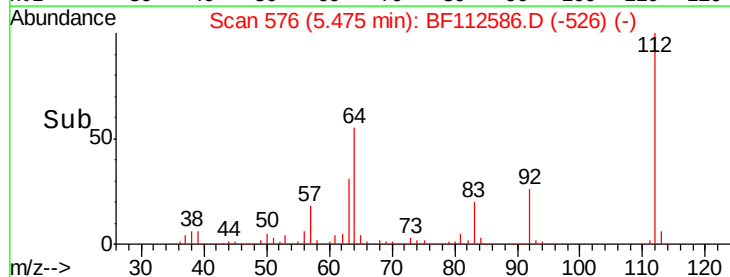
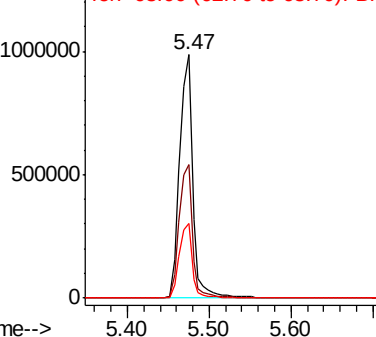


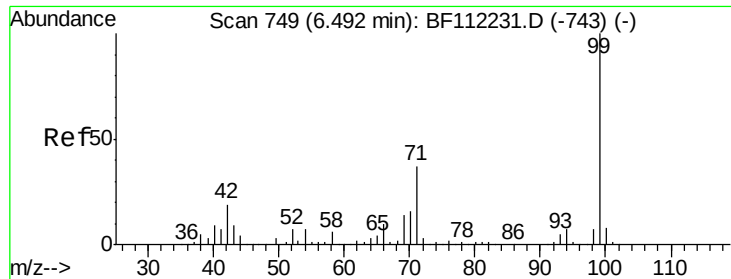
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 223.378 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

ClientSampled :

TP-1-214

Tot Ion: 99 Resp: 1421782

Ion Ratio Lower Upper

99 100

42 19.1 15.1 22.7

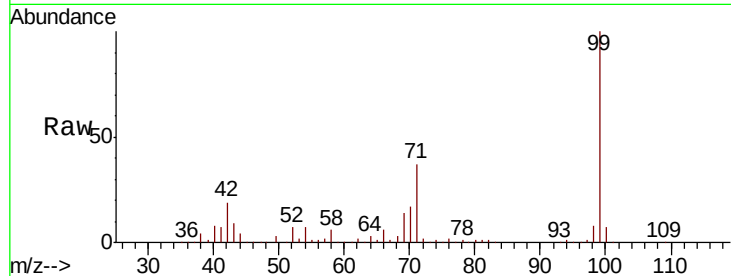
71 37.4 26.9 40.3

Manual Integrations

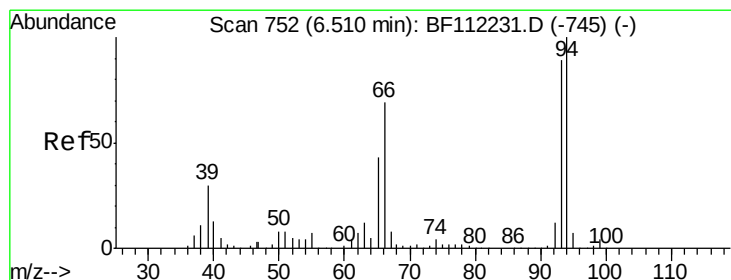
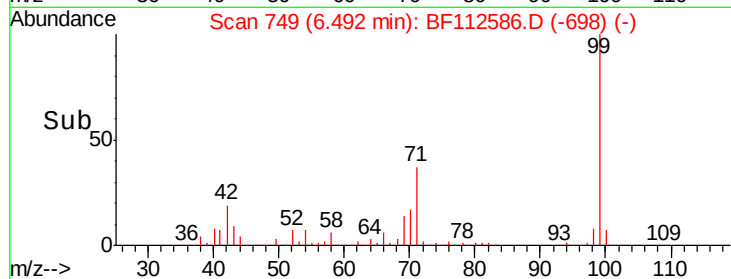
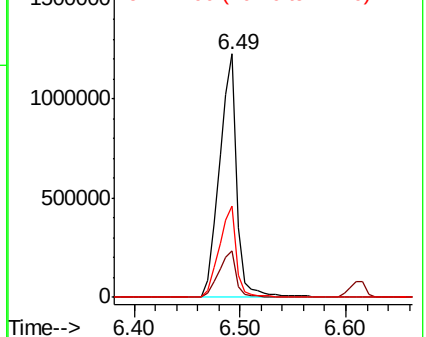
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.929 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

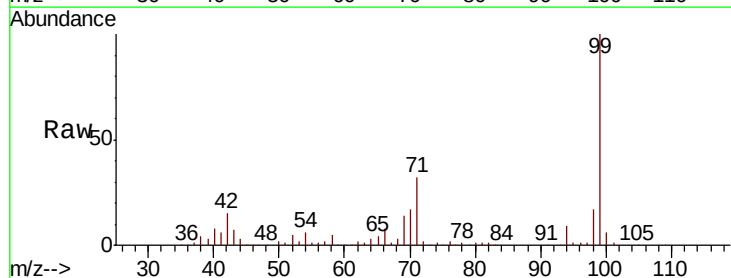
Tgt Ion: 94 Resp: 27436

Ion Ratio Lower Upper

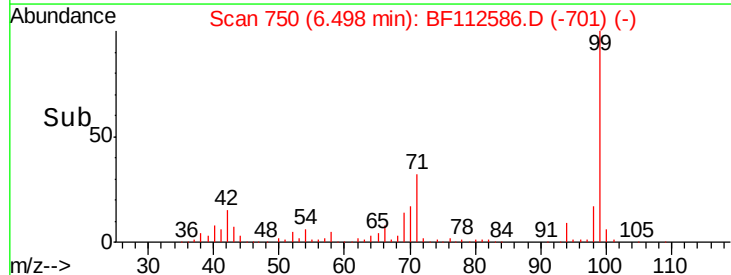
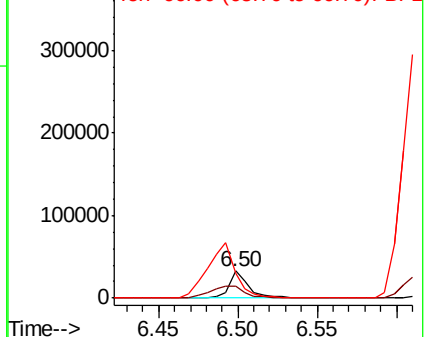
94 100

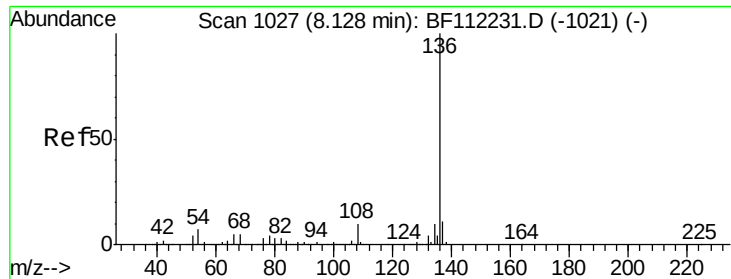
65 42.4 20.3 60.3

66 90.5 42.4 82.4#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





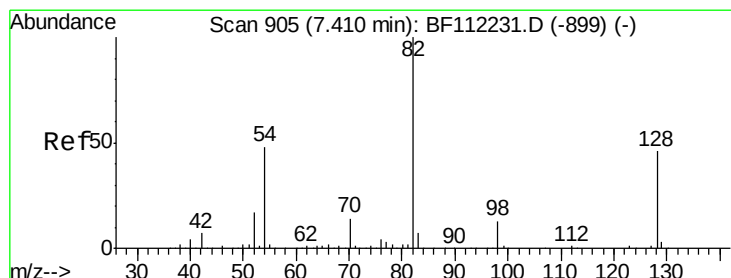
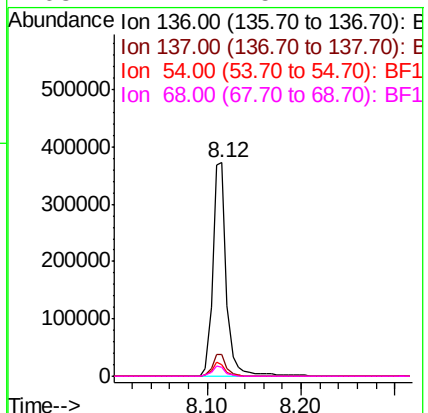
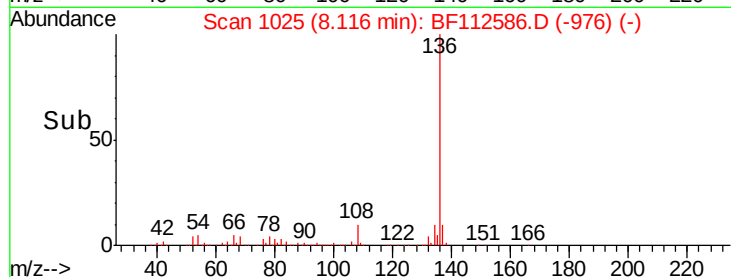
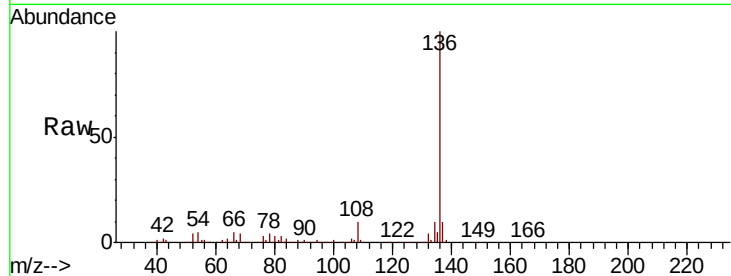
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampled :  
TP-1-214

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.4  | 9.1  | 13.7  |       |
| 54      | 5.4   | 5.9  | 8.9#  |       |
| 68      | 4.1   | 5.1  | 7.7#  |       |

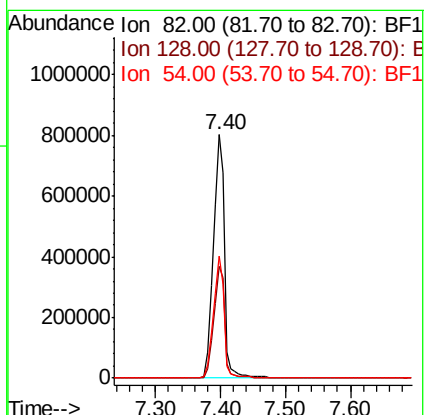
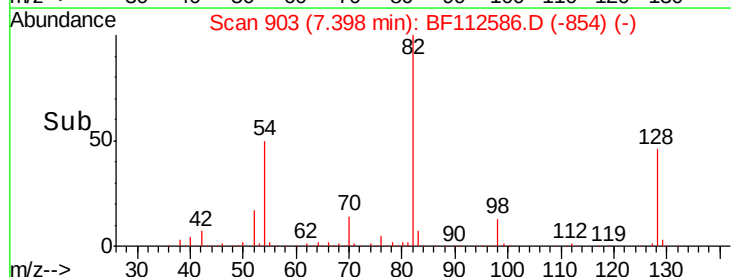
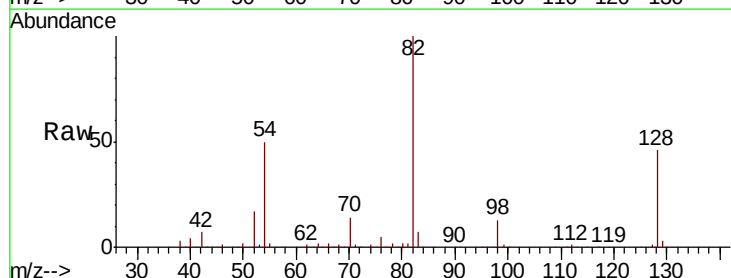
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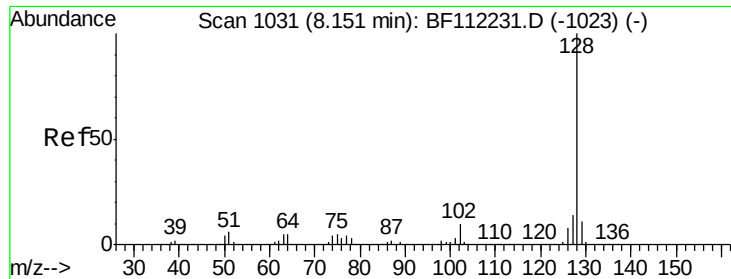
Sohil  
2/18/2019 12:06:34 PM



#23  
Nitrobenzene-d5  
Concen: 140.982 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 45.8  | 37.8 | 56.8  |       |
| 54      | 50.0  | 39.7 | 59.5  |       |





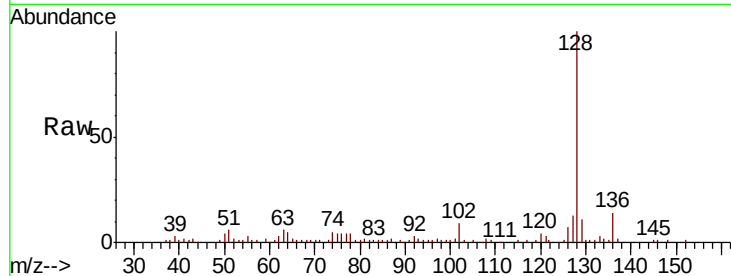
#31  
Naphthalene  
Concen: 5.705 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. -0.02 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampled :  
TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.9  | 9.6   | 14.4  |
| 127     | 13.2  | 11.1  | 16.7  |

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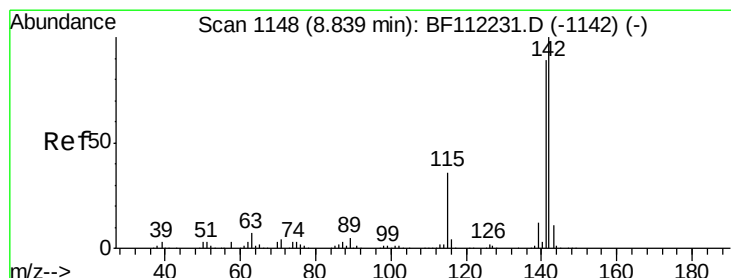
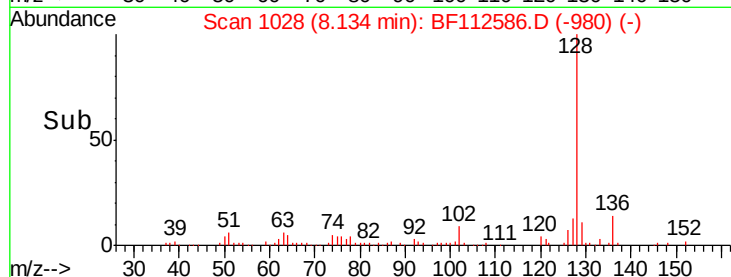
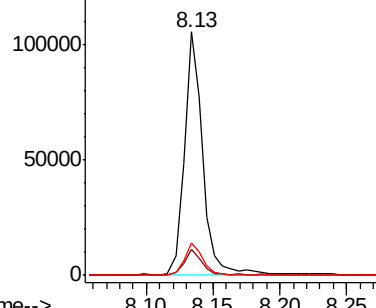


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37  
2-Methylnaphthalene  
Concen: 4.280 ng  
RT: 8.83 min Scan# 1146  
Delta R.T. -0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

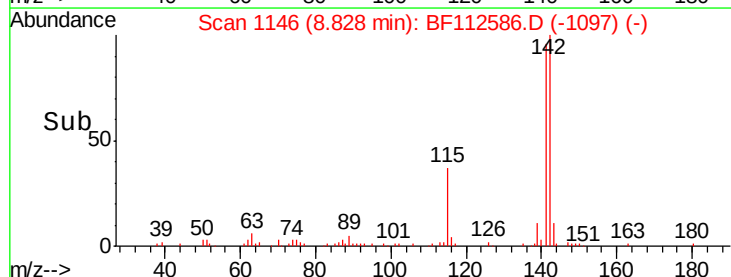
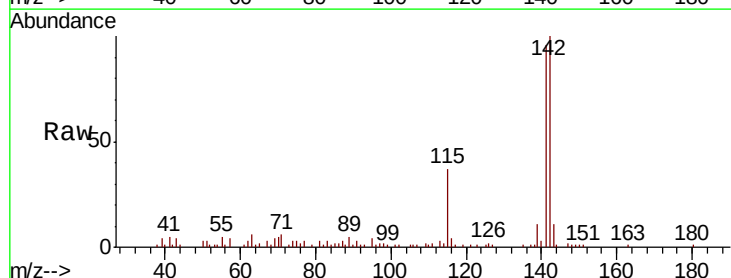
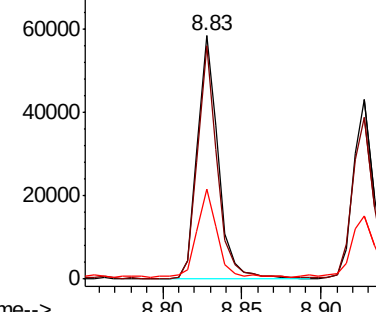
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 96.1  | 70.9  | 106.3 |
| 115     | 36.8  | 24.9  | 37.3  |

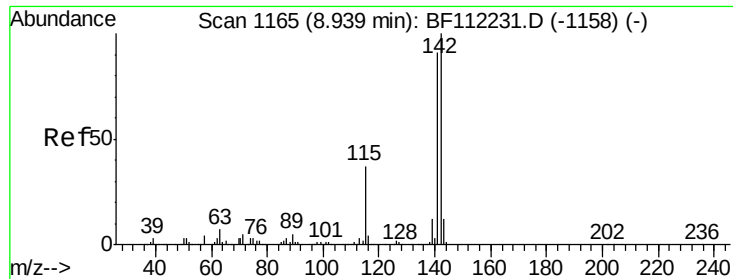
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





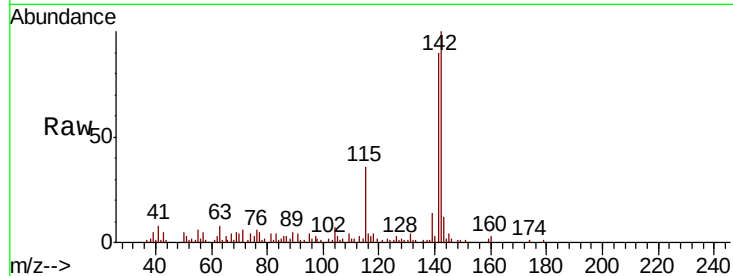
#38  
1-Methylnaphthalene  
Concen: 3.280 ng  
RT: 8.93 min Scan# 1163  
Delta R.T. -0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.0  | 72.6  | 108.8 |
| 116     | 4.0   | 2.8   | 4.2   |

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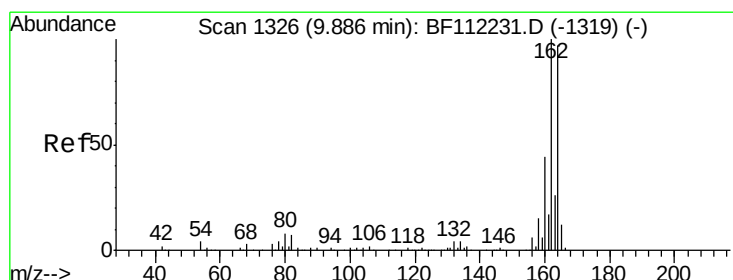
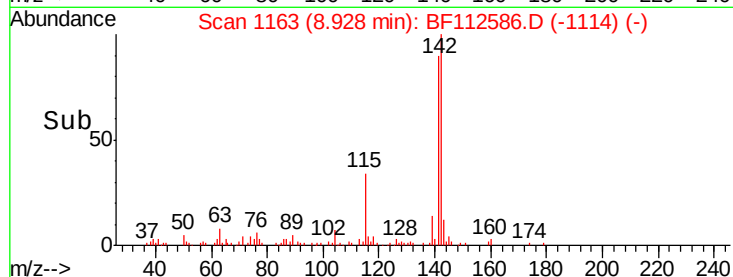
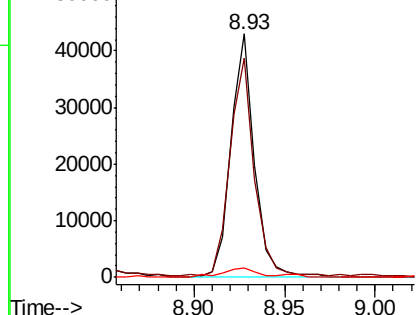


Abundance

Ion 142.00 (141.70 to 142.70): E

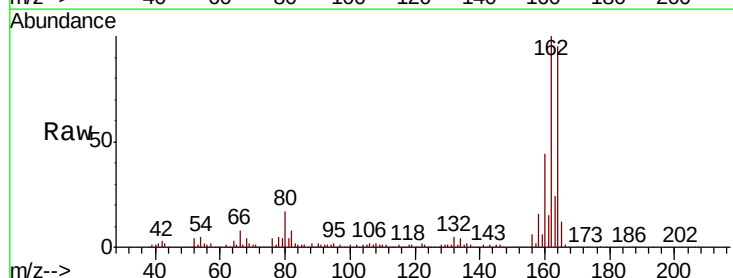
Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.87 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.7 | 82.2  | 123.4 |
| 160     | 46.0  | 36.2  | 54.4  |

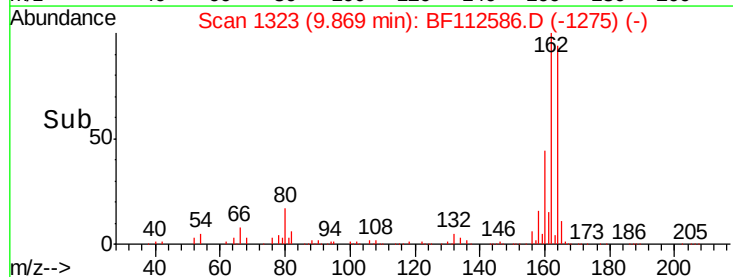
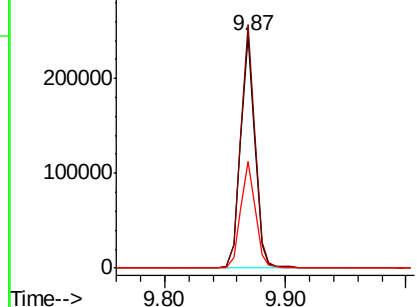


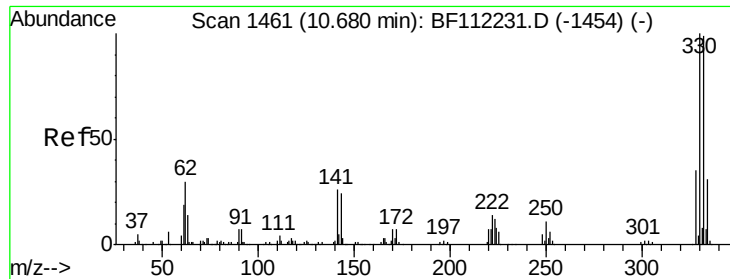
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 234.645 ng

RT: 10.67 min Scan# 1460

Delta R.T. -0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

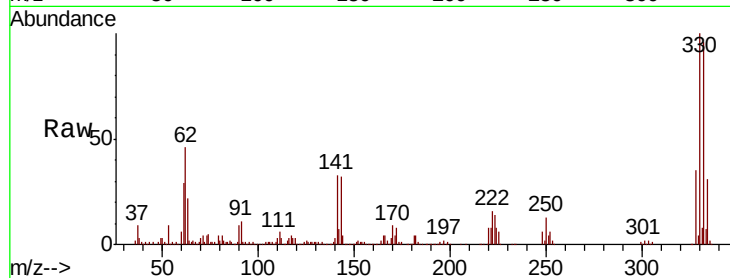
ClientSampled :

TP-1-214

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 564173 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.0  | 76.6  | 114.8  |
| 141       | 34.0  | 24.3  | 36.5   |

Manual Integrations  
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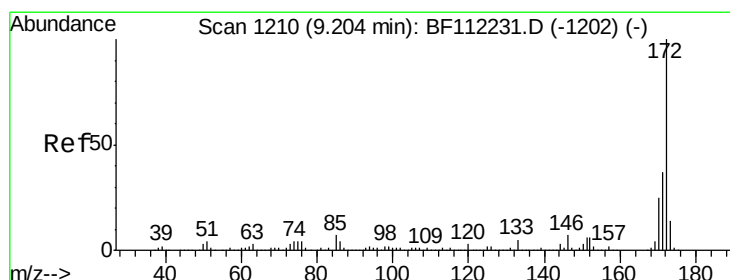
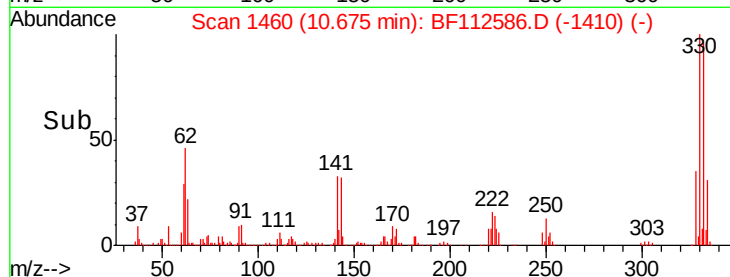
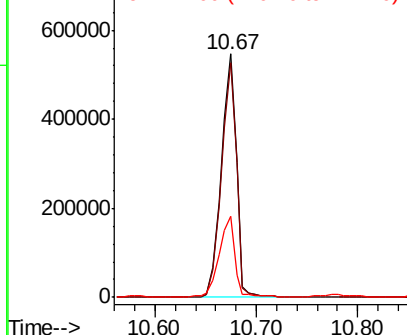


Abundance

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: 121.502 ng

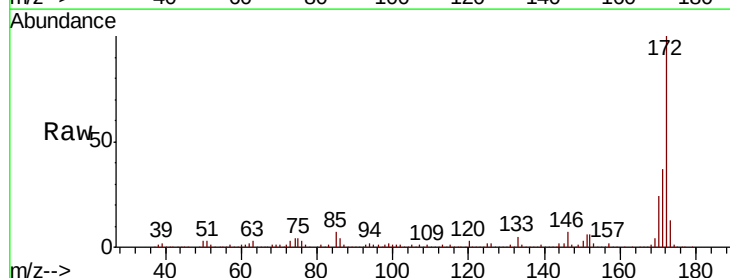
RT: 9.19 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1774555 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 37.5  | 30.5  | 45.7    |
| 170       | 24.2  | 20.2  | 30.4    |

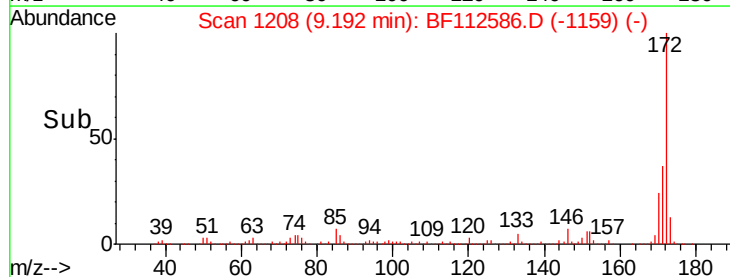
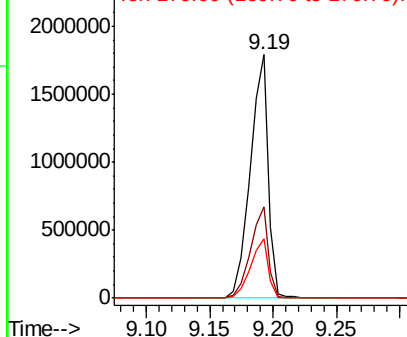


Abundance

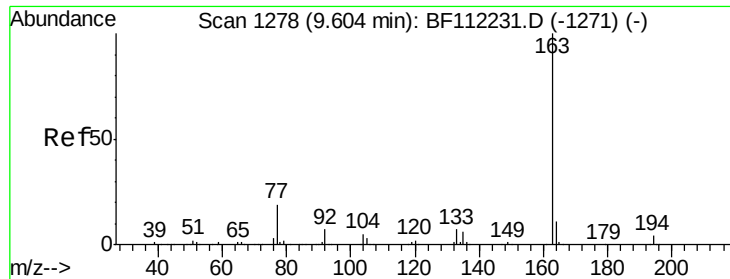
Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E







#50

Dimethylphthalate

Concen: 7.239 ng

RT: 9.58 min Scan# 1274

Delta R.T. -0.02 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

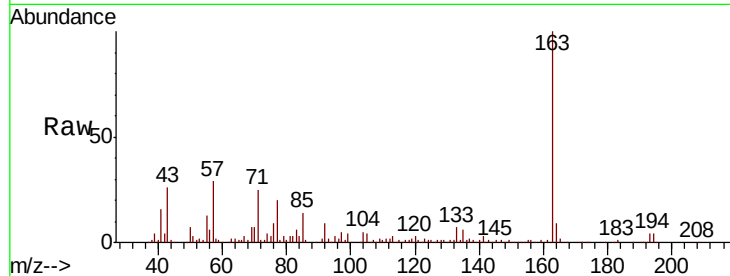
ClientSampled :

TP-1-214

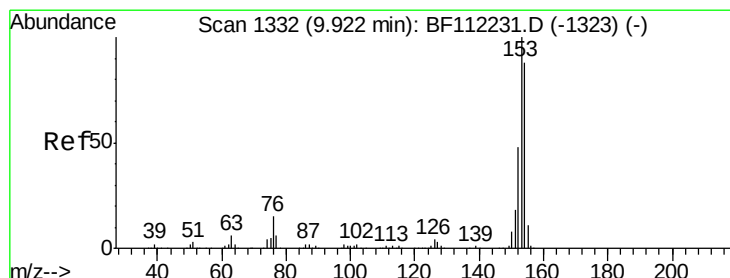
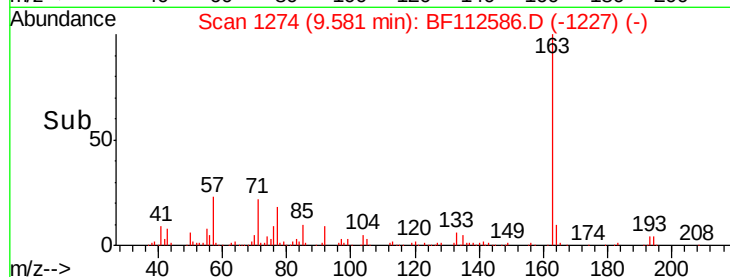
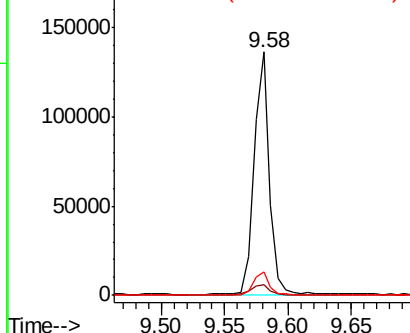
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 116173 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.2   | 3.3   | 4.9    |
| 164       | 9.5   | 8.5   | 12.7   |

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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



#52

Acenaphthene

Concen: 4.376 ng

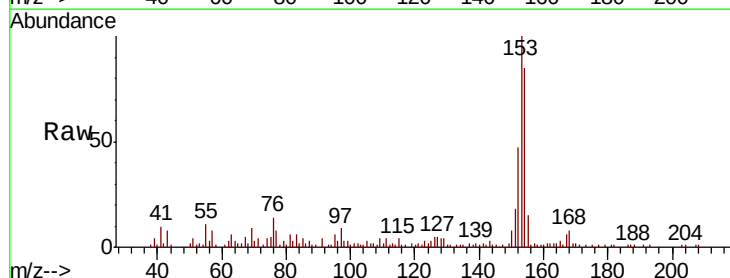
RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

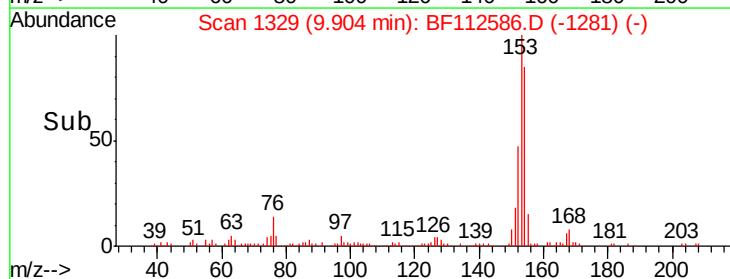
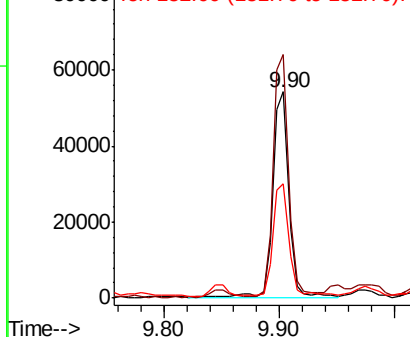
Lab File: BF112586.D

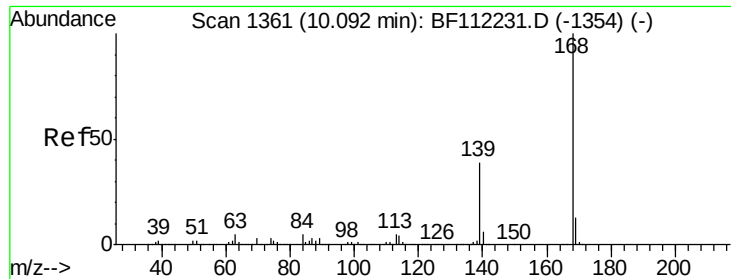
Acq: 15 Feb 2019 18:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 53653 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 118.2 | 89.8  | 134.6 |
| 152       | 55.2  | 43.5  | 65.3  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





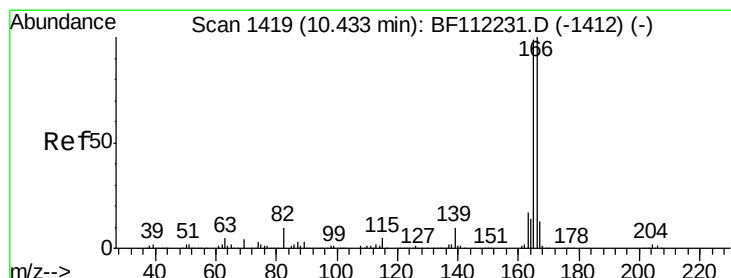
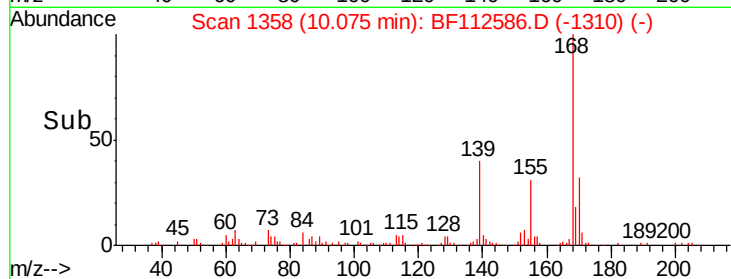
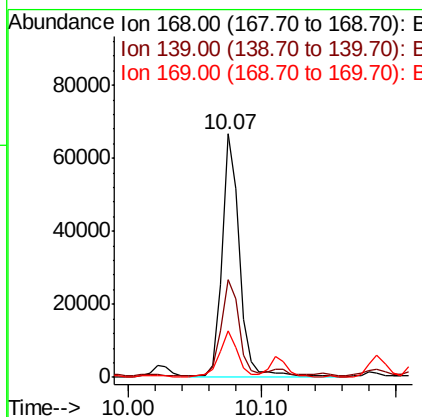
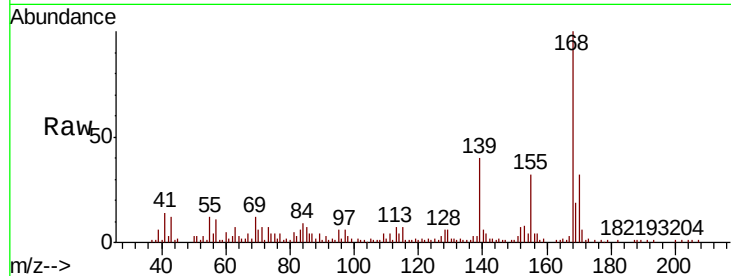
#55  
Dibenzofuran  
Concen: 3.323 ng  
RT: 10.07 min Scan# 1358  
Delta R.T. -0.02 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampled :  
TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.3  | 29.2  | 43.8  |
| 169     | 18.9  | 11.4  | 17.0  |

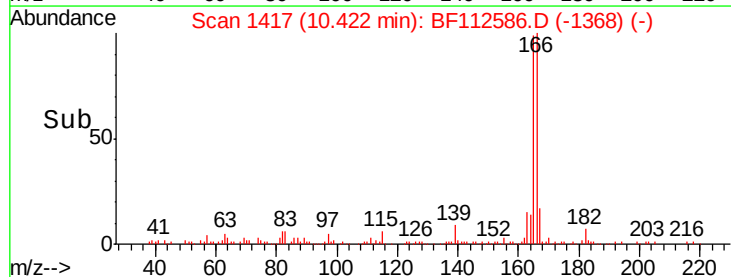
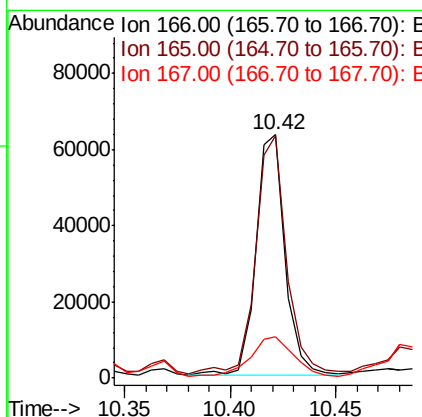
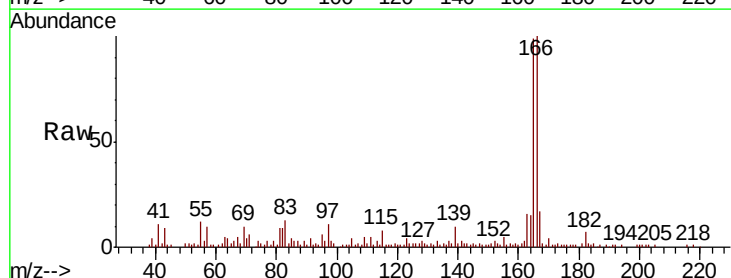
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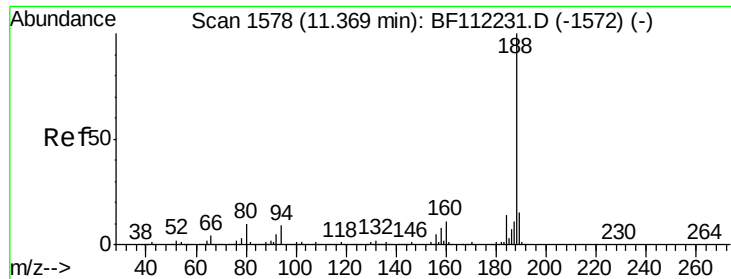
Sohil  
2/18/2019 12:06:34 PM



#58  
Fluorene  
Concen: 4.350 ng  
RT: 10.42 min Scan# 1417  
Delta R.T. -0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.4  | 77.1  | 115.7 |
| 167     | 17.0  | 11.3  | 16.9  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

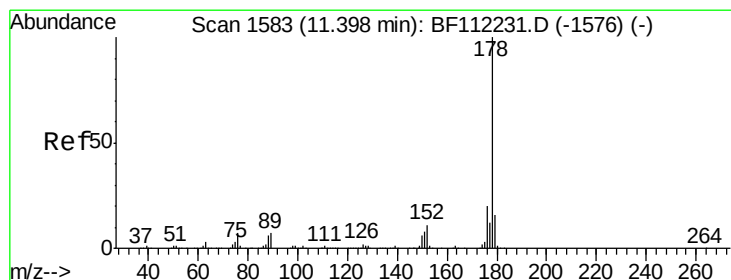
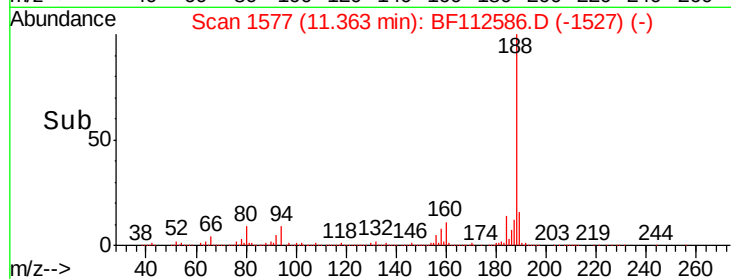
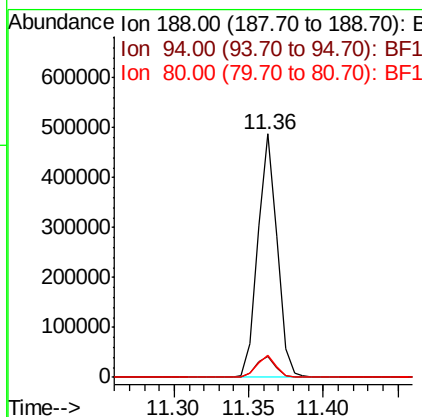
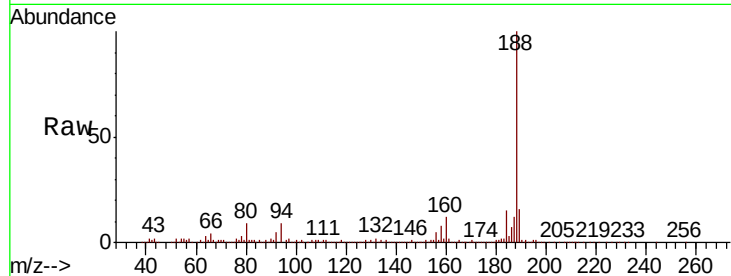
ClientSampleId :

TP-1-214

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 430880 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.7   | 8.2   | 12.2   |
| 80        | 9.2   | 8.9   | 13.3   |

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#71

Phenanthrene

Concen: 43.859 ng

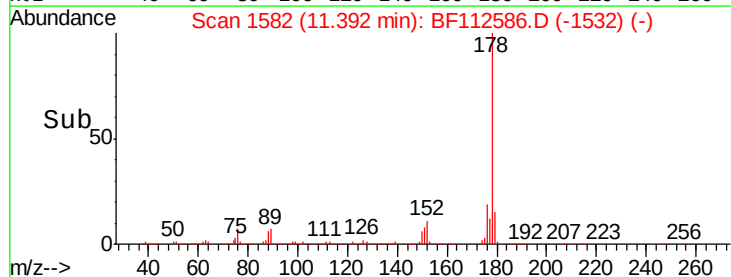
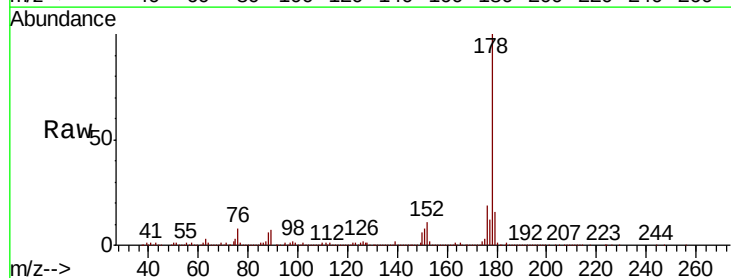
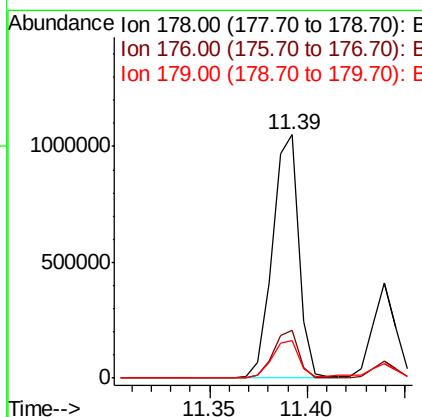
RT: 11.39 min Scan# 1582

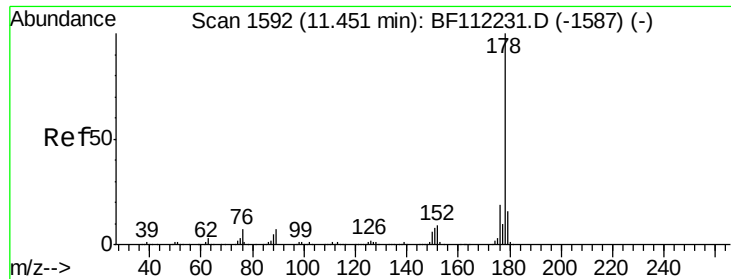
Delta R.T. -0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 982475 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.4  | 16.3  | 24.5   |
| 179       | 15.5  | 13.0  | 19.4   |





#72

Anthracene

Concen: 14.369 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

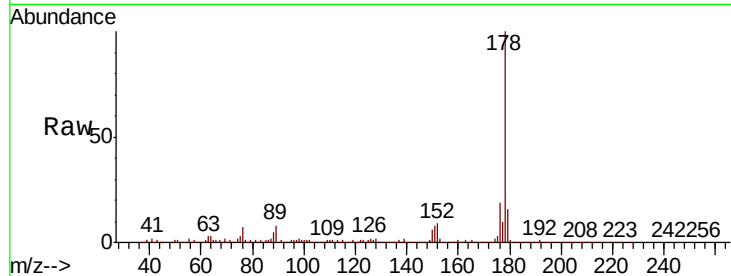
ClientSampled :

TP-1-214

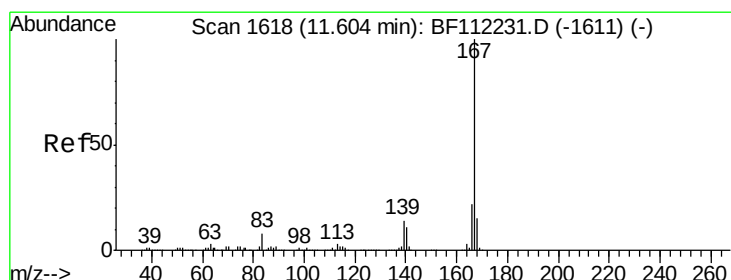
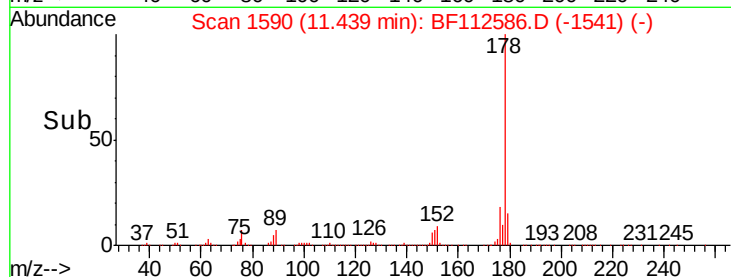
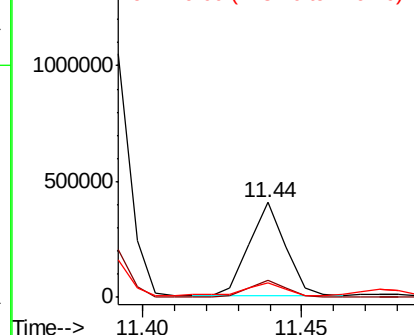
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 320625 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.5  | 15.5  | 23.3   |
| 179       | 15.6  | 12.8  | 19.2   |

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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



#73

Carbazole

Concen: 3.618 ng

RT: 11.60 min Scan# 1617

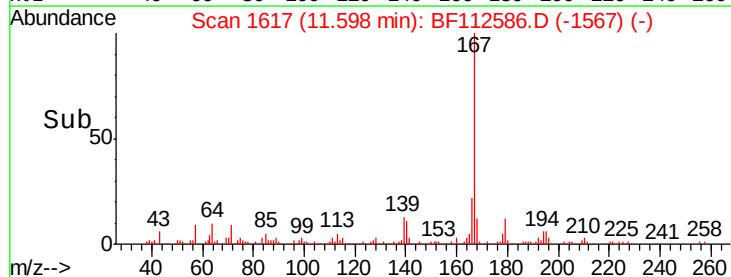
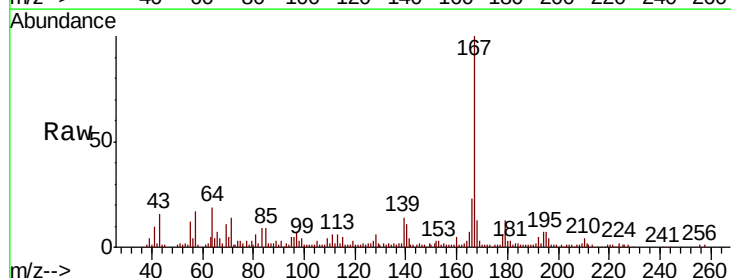
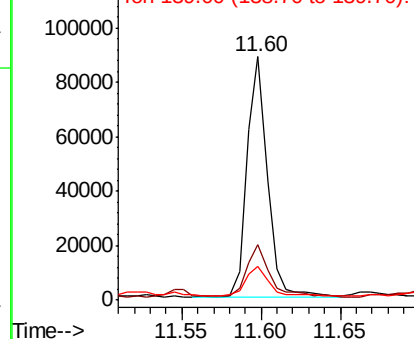
Delta R.T. -0.01 min

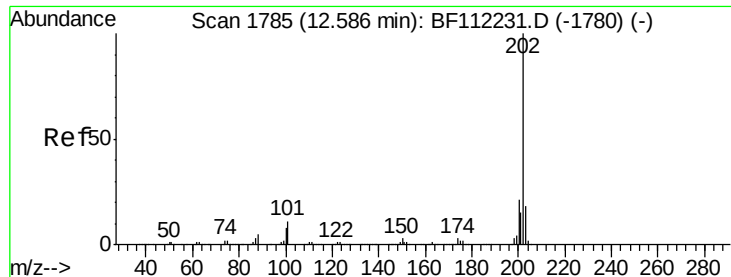
Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 79637 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.9  | 17.9  | 26.9  |
| 139       | 13.8  | 10.2  | 15.2  |

Abundance Ion 167.00 (166.70 to 167.70): E  
Ion 166.00 (165.70 to 166.70): E  
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 93.321 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

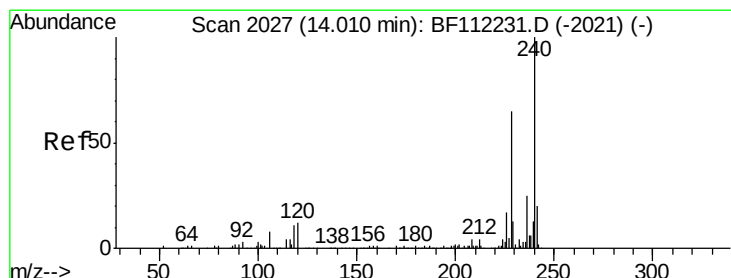
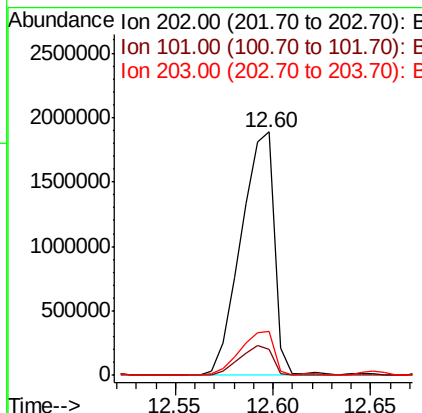
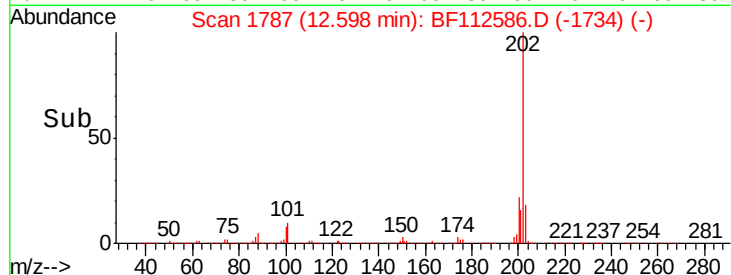
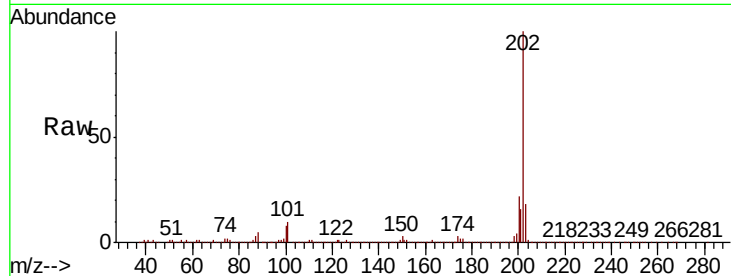
ClientSampled :

TP-1-214

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 2242150 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 10.5  | 0.0   | 31.8    |
| 203      | 17.8  | 0.0   | 38.4    |

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#76

Chrysene-d12

Concen: 20.000 ng

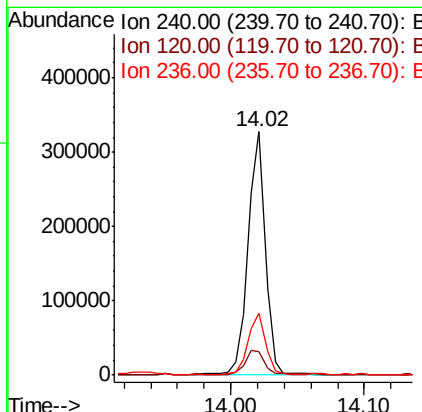
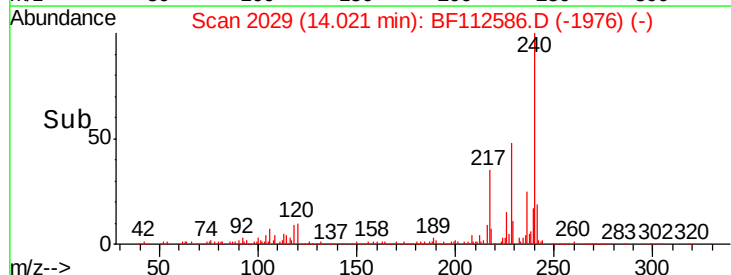
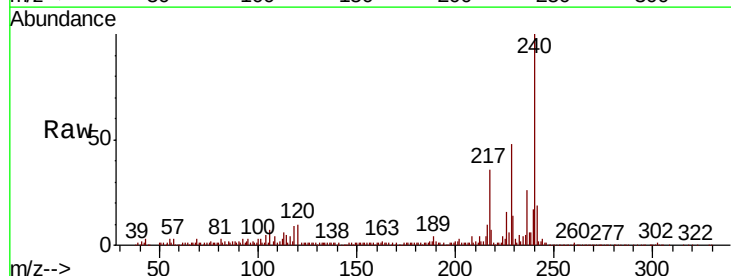
RT: 14.02 min Scan# 2029

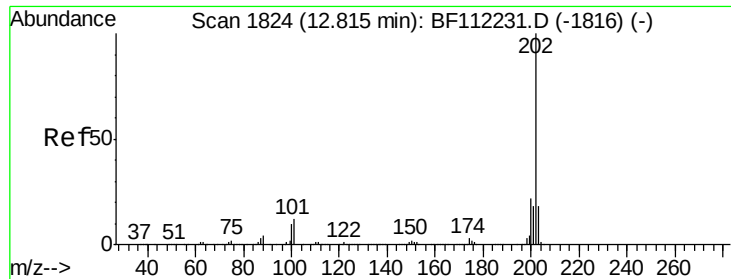
Delta R.T. 0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 287901 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 9.8   | 9.0   | 13.6   |
| 236      | 25.5  | 20.7  | 31.1   |





#78

Pvrene

Concen: 99.691 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

ClientSampleId :

TP-1-214

Tot Ion:202 Resp: 1987104

Ion Ratio Lower Upper

202 100

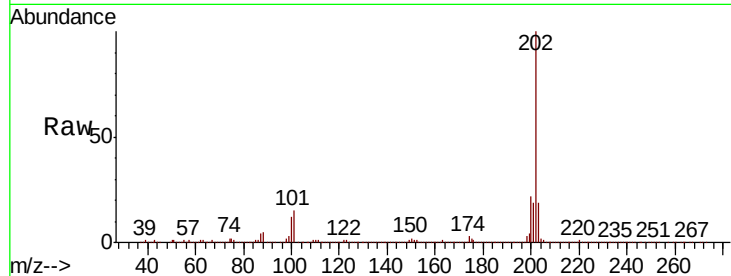
200 22.3 17.7 26.5

203 18.6 14.6 22.0

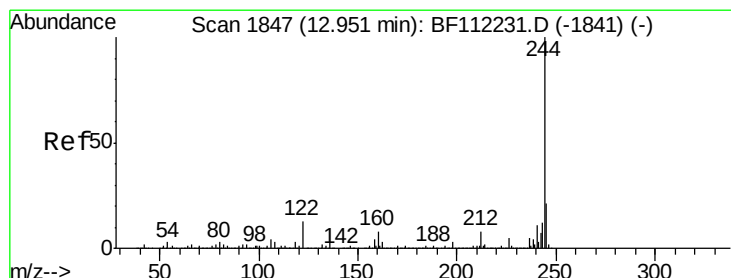
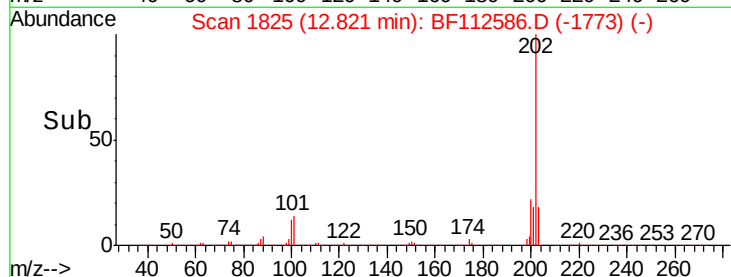
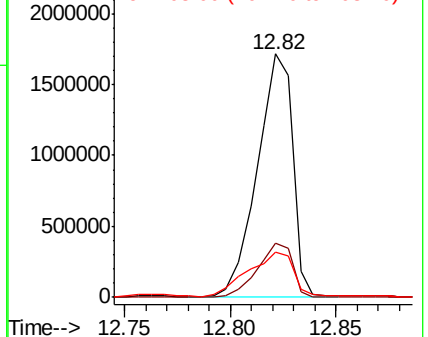
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 139.175 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

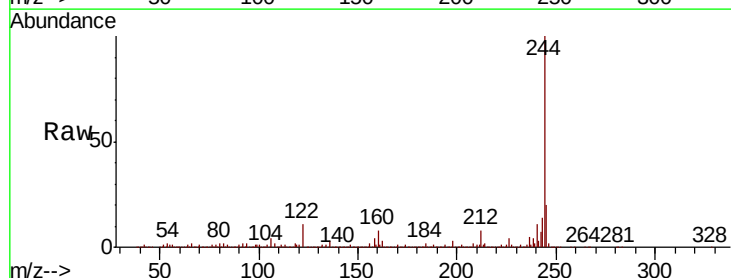
Tgt Ion:244 Resp: 2127410

Ion Ratio Lower Upper

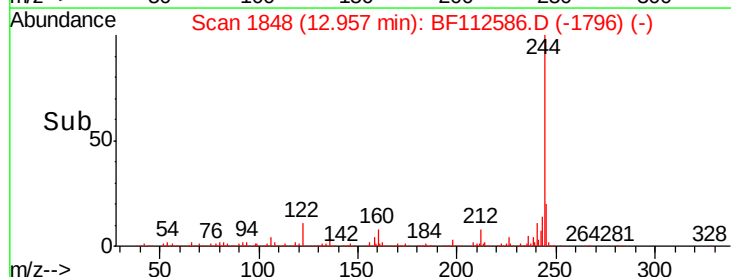
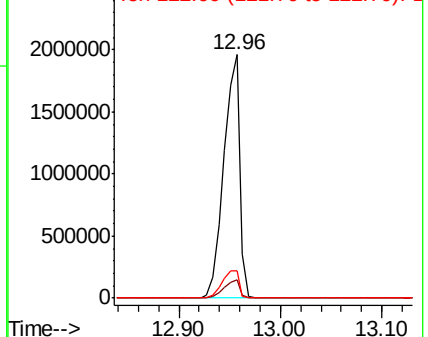
244 100

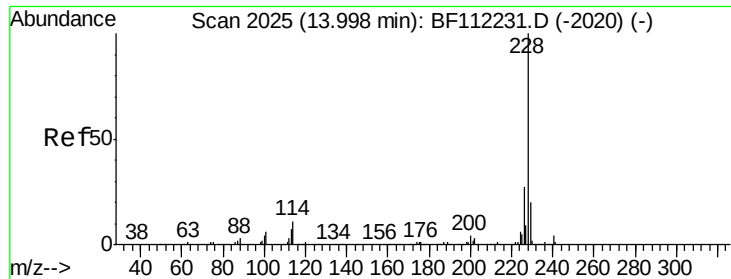
212 7.6 5.9 8.9

122 11.1 9.8 14.6



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: 59.178 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

Instrument :

BNA\_F

ClientSampled :

TP-1-214

Tot Ion:228 Resp: 1001545

Ion Ratio Lower Upper

228 100

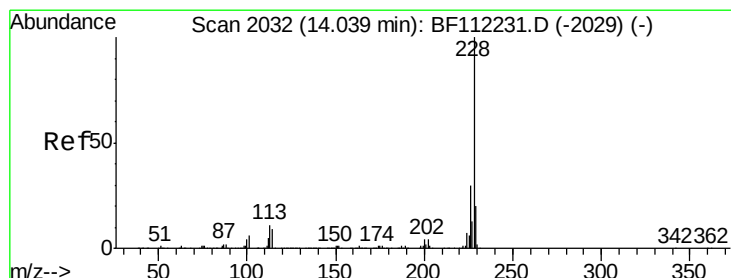
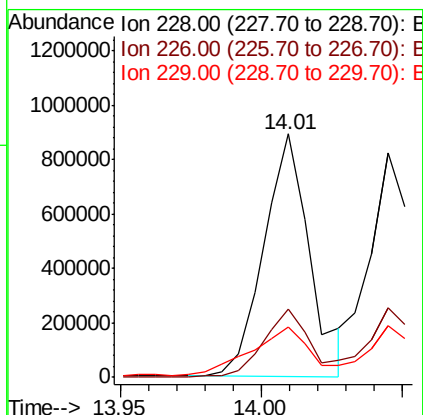
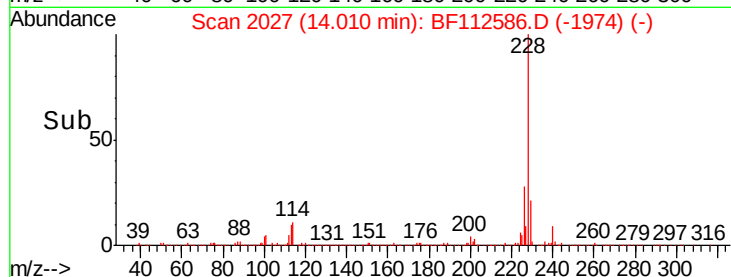
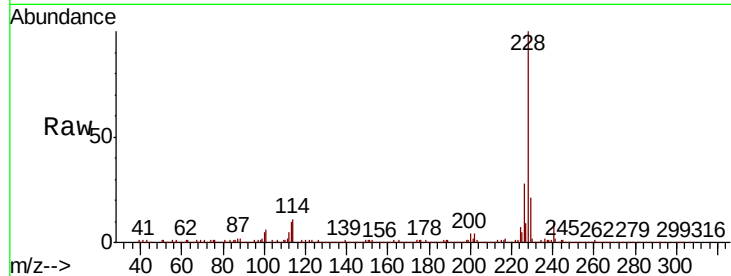
226 27.9 22.6 34.0

229 20.9 16.5 24.7

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#83

Chrysene

Concen: 49.076 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF112586.D

Acq: 15 Feb 2019 18:42

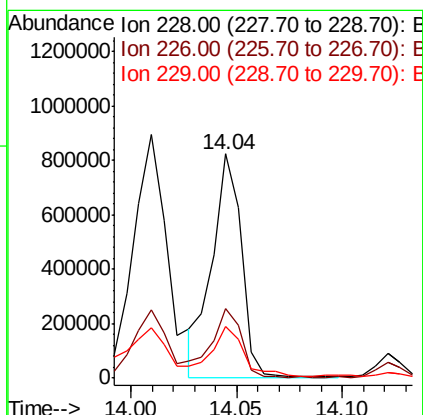
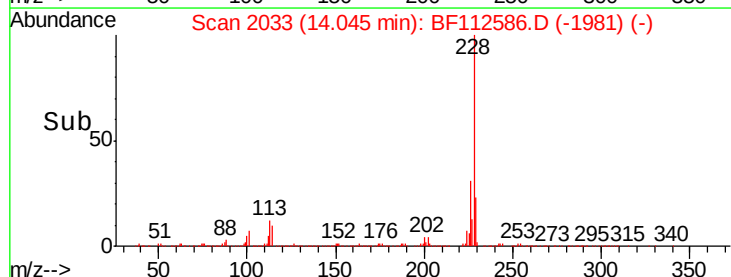
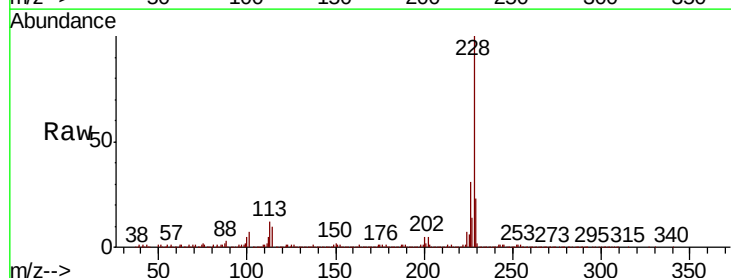
Tgt Ion:228 Resp: 792822

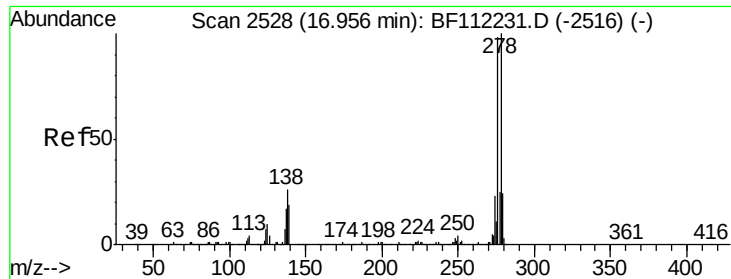
Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

229 23.2 16.6 24.8





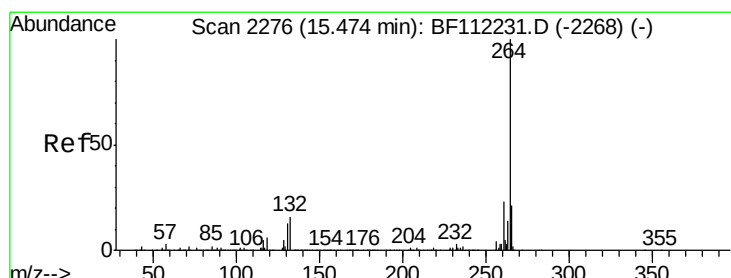
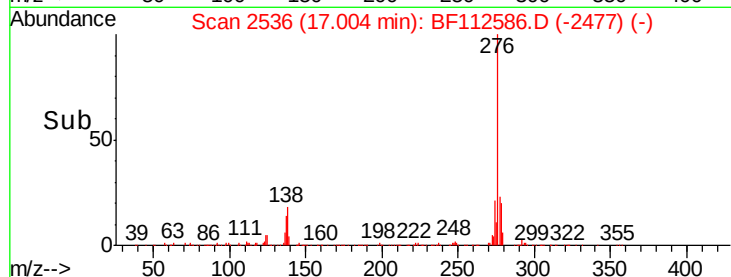
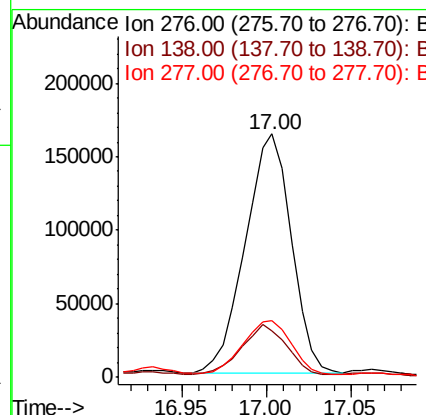
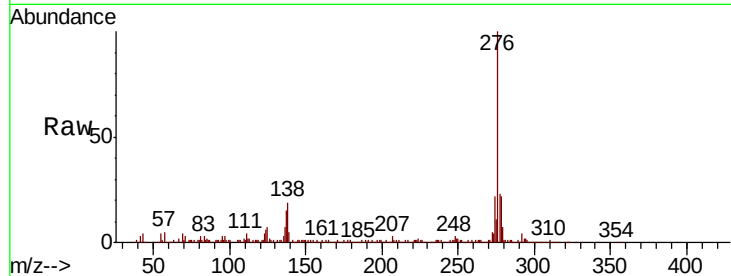
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 24.085 ng  
 RT: 17.00 min Scan# 2536  
 Delta R.T. 0.05 min  
 Lab File: BF112586.D  
 Acq: 15 Feb 2019 18:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.5  | 22.6  | 34.0# |
| 277     | 24.2  | 20.3  | 30.5  |

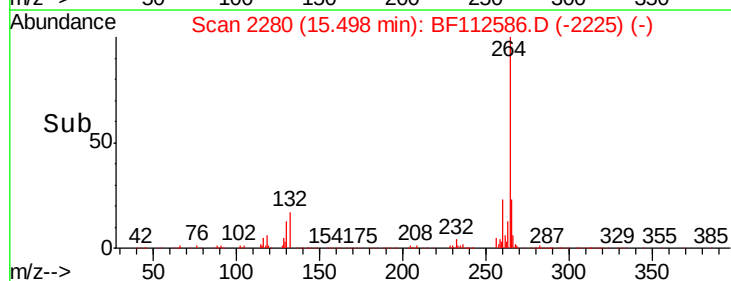
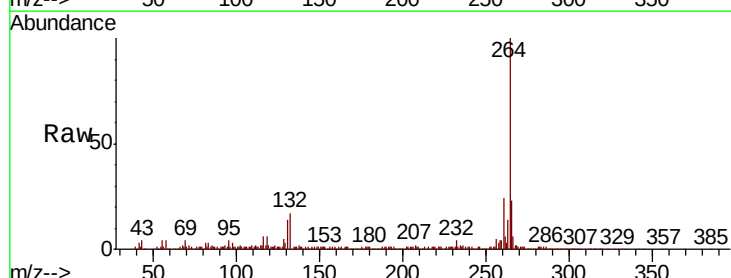
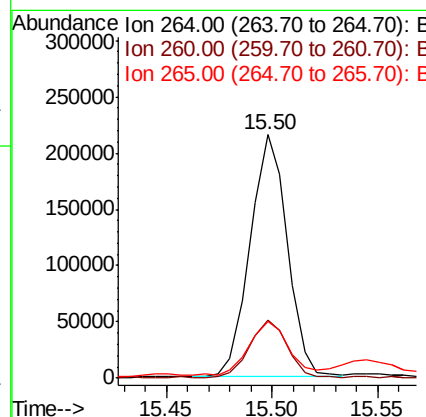
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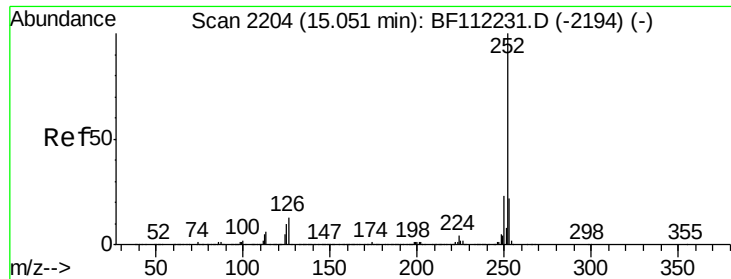


#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. 0.02 min  
 Lab File: BF112586.D  
 Acq: 15 Feb 2019 18:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 18.2  | 27.2  |
| 265     | 23.3  | 17.0  | 25.4  |







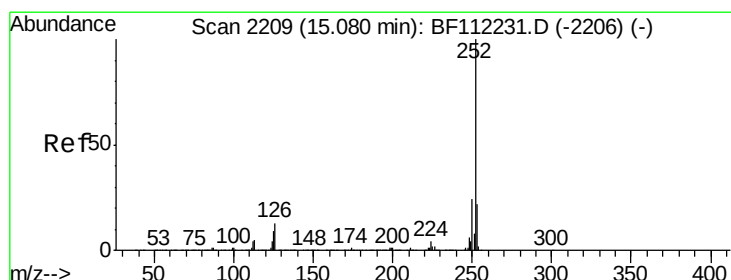
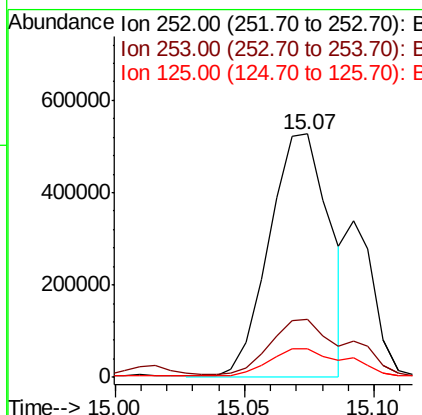
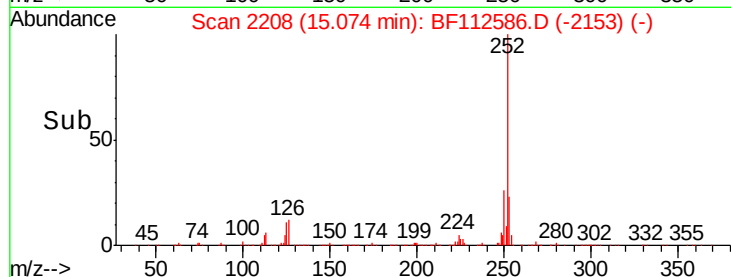
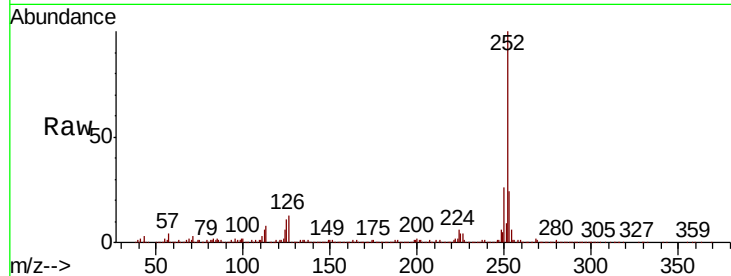
#88  
Benzo(b)fluoranthene  
Concen: 53.891 ng m  
RT: 15.07 min Scan# 2208  
Delta R.T. 0.02 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.0  | 27.0  |
| 125     | 11.5  | 8.7   | 13.1  |

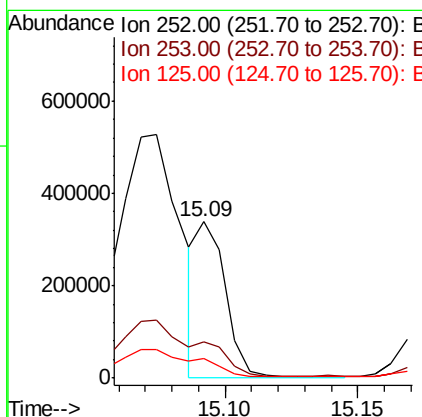
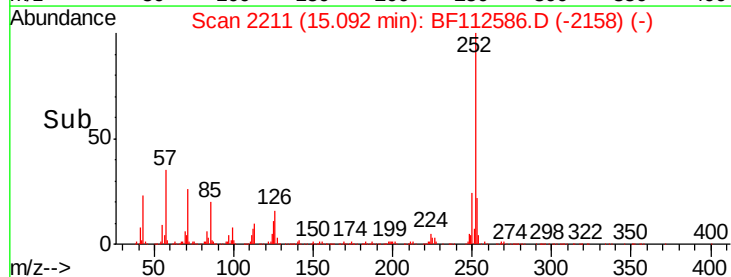
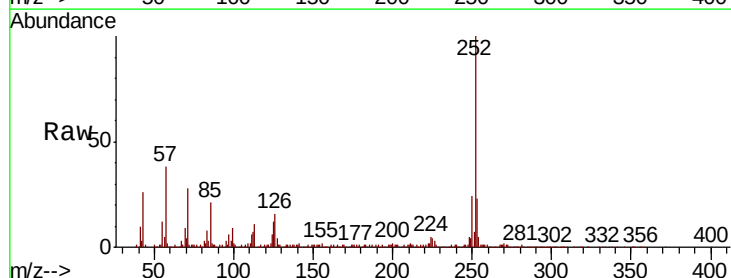
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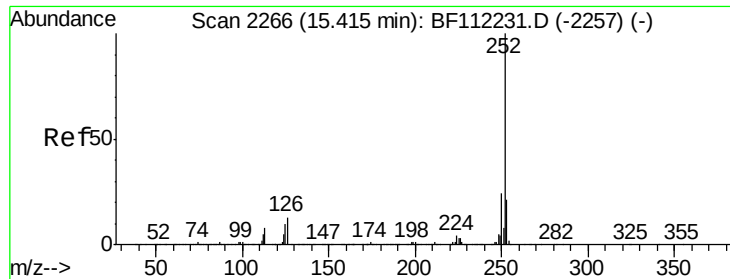
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#89  
Benzo(k)fluoranthene  
Concen: 17.080 ng m  
RT: 15.09 min Scan# 2211  
Delta R.T. 0.01 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.0  | 27.0  |
| 125     | 12.2  | 9.1   | 13.7  |





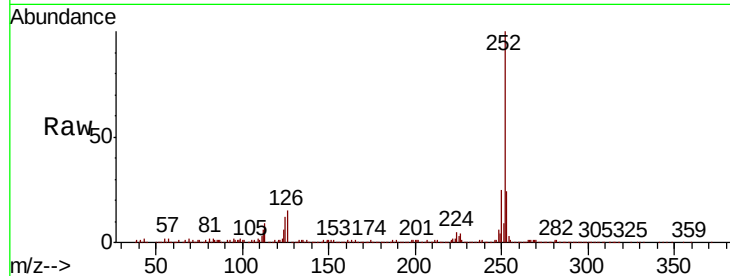
#90  
Benzo(a)pyrene  
Concen: 40.132 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.02 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-214

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.5  | 26.3  |
| 125     | 12.2  | 9.0   | 13.4  |

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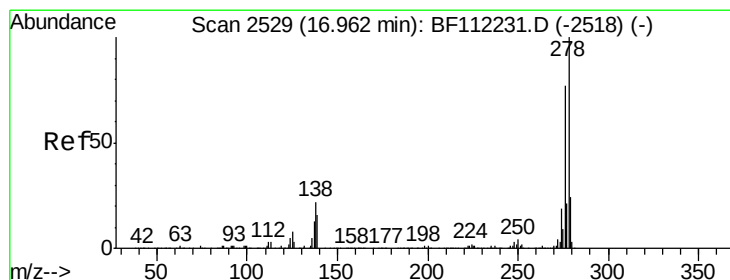
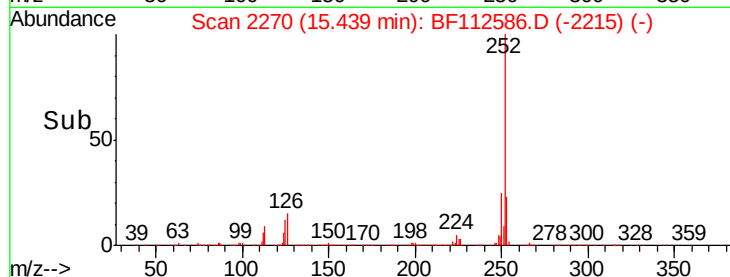
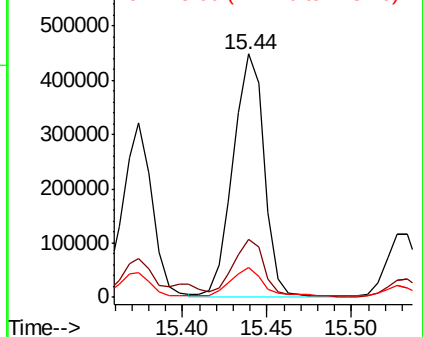


Abundance

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



#91  
Dibenzo(a,h)anthracene  
Concen: 8.309 ng m  
RT: 17.00 min Scan# 2535  
Delta R.T. 0.04 min  
Lab File: BF112586.D  
Acq: 15 Feb 2019 18:42

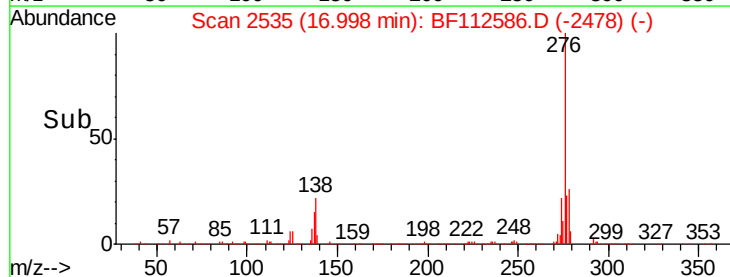
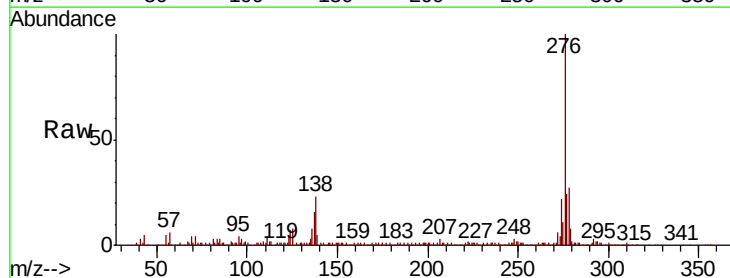
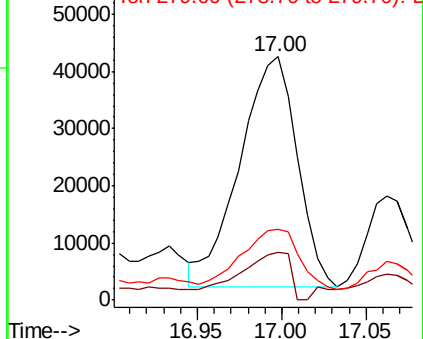
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.9  | 13.7  | 20.5  |
| 279     | 29.1  | 19.0  | 28.6  |

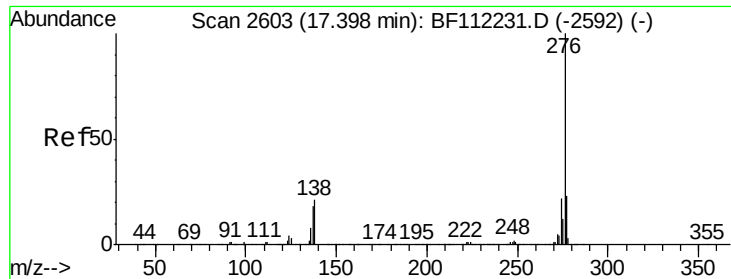
Abundance

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





#92  
 Benzo(a,h,i)perylene  
 Concen: 24.628 ng  
 RT: 17.46 min Scan# 2613  
 Delta R.T. 0.06 min  
 Lab File: BF112586.D  
 Acq: 15 Feb 2019 18:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1-214

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 267141 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.8  | 19.4  | 29.0   |
| 138       | 22.0  | 19.1  | 28.7   |

Manual Integrations  
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