

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\  
 Data File : BF114674.D  
 Acq On : 30 May 2019 21:41  
 Operator : HP/JU  
 Sample : K3068-07  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4S(4-5)

Manual Integrations  
 APPROVED

mohammad  
 6/3/2019 8:47:27 AM

Quant Time: May 31 07:08:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 19:08:51 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 412369   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.97  | 136  | 1526740  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.72  | 164  | 718731   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.19 | 188  | 1209221  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12               | 13.82 | 240  | 837916   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12               | 15.20 | 264  | 804483   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.30  | 112  | 2177804  | 92.72 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.33  | 99   | 2660910  | 94.01 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 1664981  | 68.04 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.50 | 330  | 548876   | 80.15 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.05  | 172  | 2738161  | 68.45 | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.77 | 244  | 2216037  | 49.72 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 10) Phenol                     | 6.34  | 94   | 81887    | 2.395 | ng    | 94       |
| 50) Dimethylphthalate          | 9.44  | 163  | 236586   | 4.724 | ng    | 99       |
| 71) Phenanthrene               | 11.22 | 178  | 548149   | 8.886 | ng    | 96       |
| 75) Fluoranthene               | 12.40 | 202  | 631557   | 9.888 | ng    | 96       |
| 78) Pyrene                     | 12.62 | 202  | 554064   | 7.817 | ng    | 97       |
| 81) Benzo(a)anthracene         | 13.80 | 228  | 249747   | 3.879 | ng    | 97       |
| 83) Chrysene                   | 13.84 | 228  | 266374   | 4.330 | ng    | 96       |
| 84) Bis(2-ethylhexyl)phthalate | 13.82 | 149  | 273070   | 6.201 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 16.52 | 276  | 125974   | 2.045 | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 14.82 | 252  | 364217m  | 7.188 | ng    |          |
| 90) Benzo(a)pyrene             | 15.14 | 252  | 215193   | 4.834 | ng    | # 92     |
| 92) Benzo(a,h,i)perylene       | 16.92 | 276  | 160791   | 4.212 | ng    | 95       |

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

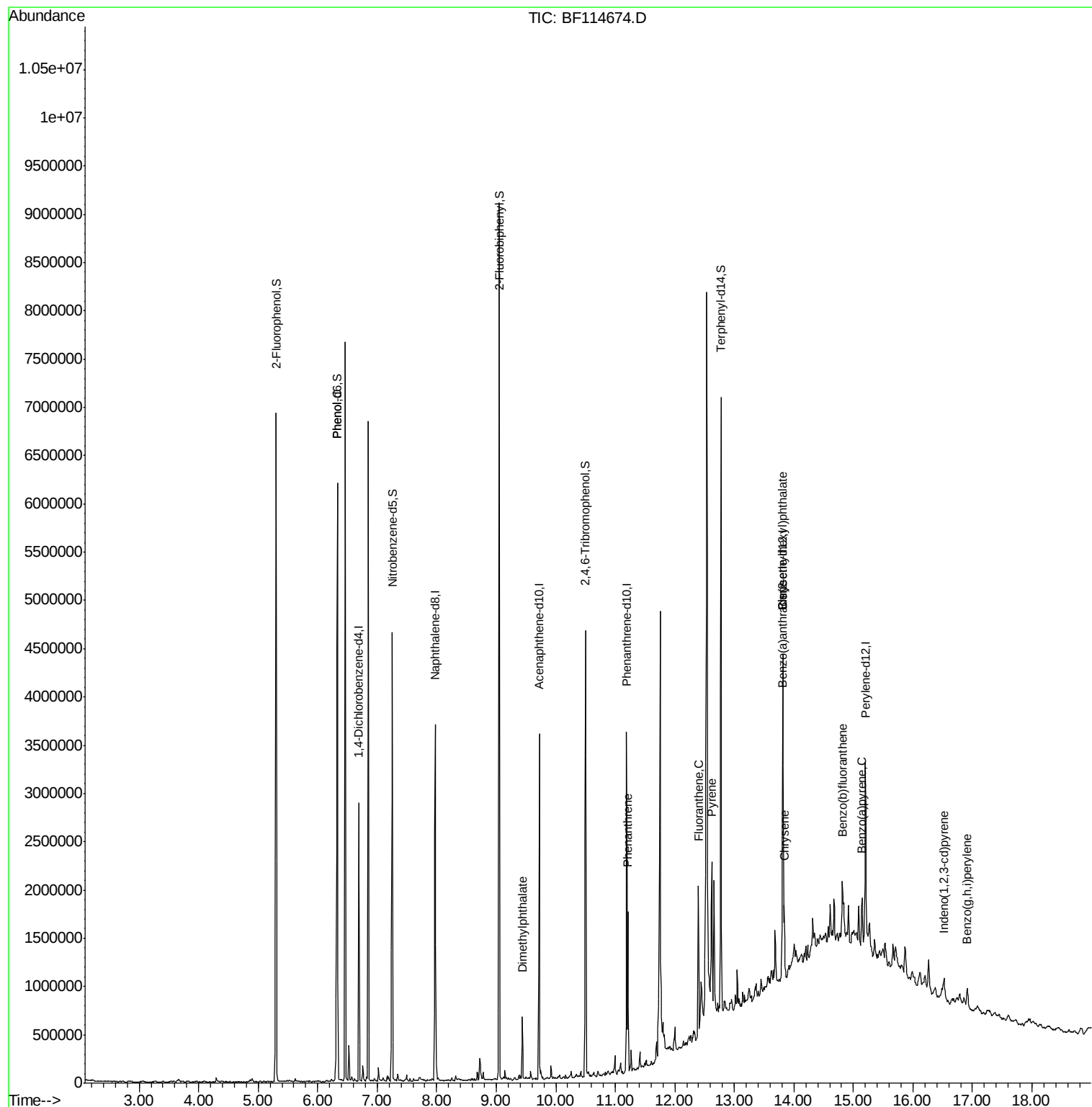
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\  
Data File : BF114674.D  
Acq On : 30 May 2019 21:41  
Operator : HP/JU  
Sample : K3068-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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B-4S(4-5)

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Quant Time: May 31 07:08:49 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 19:08:51 2019  
Response via : Initial Calibration





#1

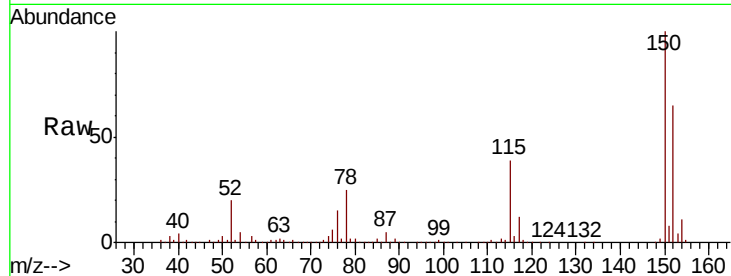
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.69 min Scan# 783  
Delta R.T. -0.00 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
B-4S(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.8 | 124.4 | 186.6 |
| 115     | 60.0  | 48.7  | 73.1  |

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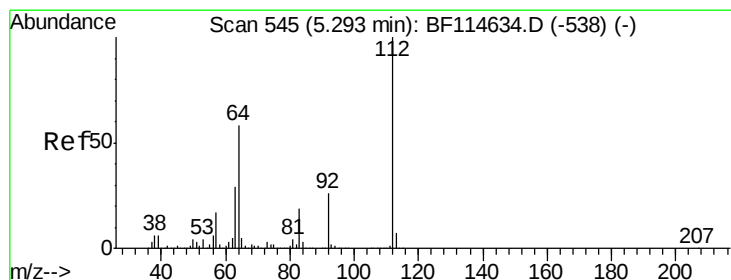
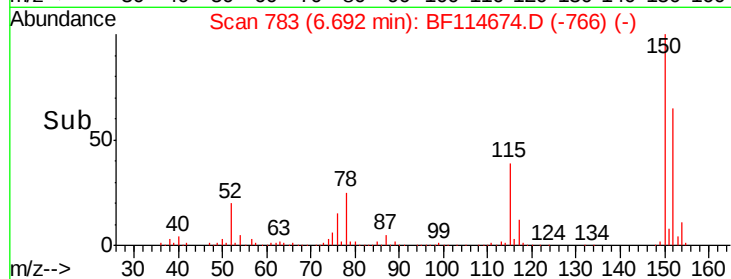
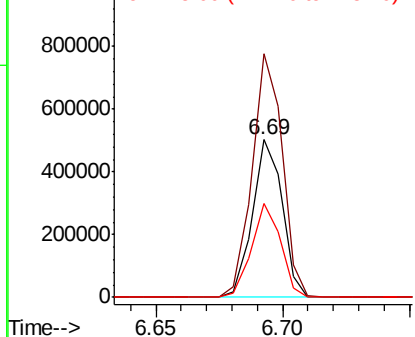


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

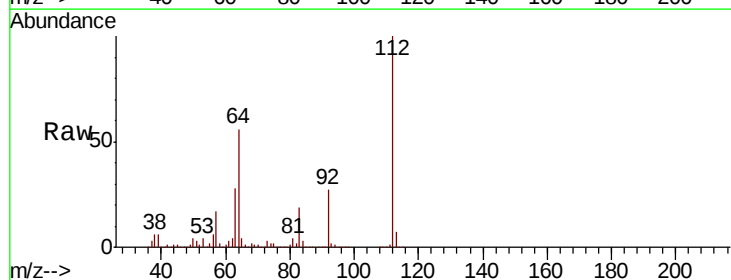
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 92.723 ng  
RT: 5.30 min Scan# 547  
Delta R.T. 0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.6  | 46.1  | 69.1  |
| 63      | 28.5  | 23.4  | 35.2  |

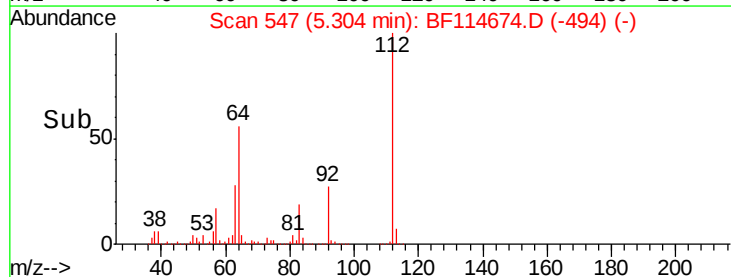
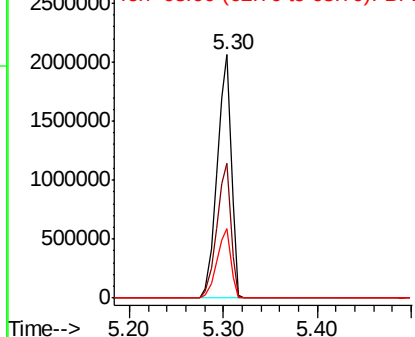


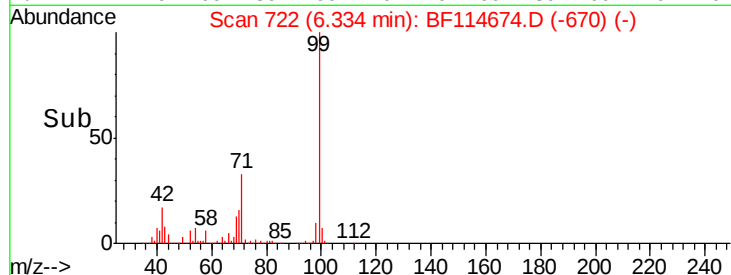
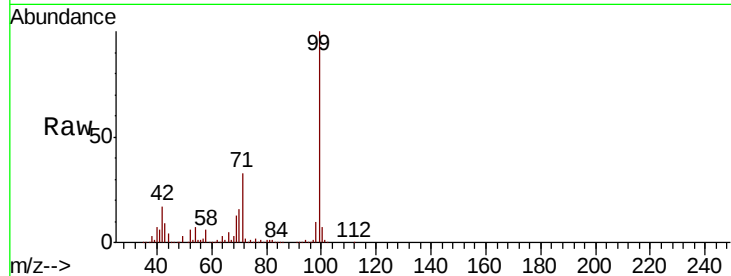
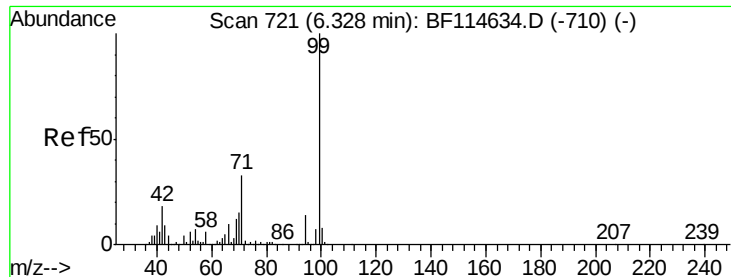
Abundance

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: 94.015 ng

RT: 6.33 min Scan# 722

Delta R.T. 0.01 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 99    | Resp: | 2660910 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 16.9  | 14.7  | 22.1    |
| 71       | 33.3  | 26.6  | 40.0    |

Instrument :

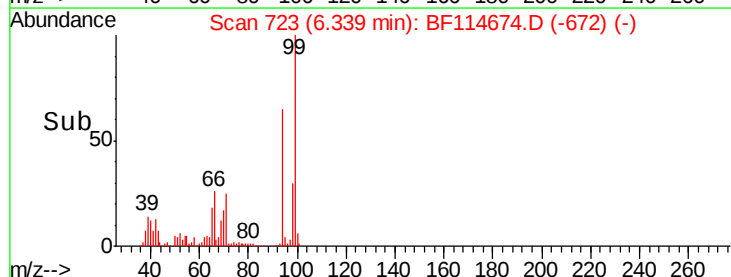
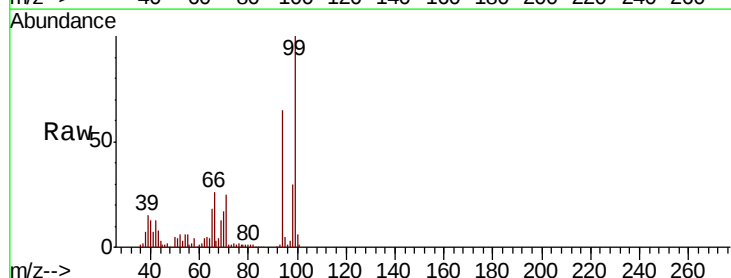
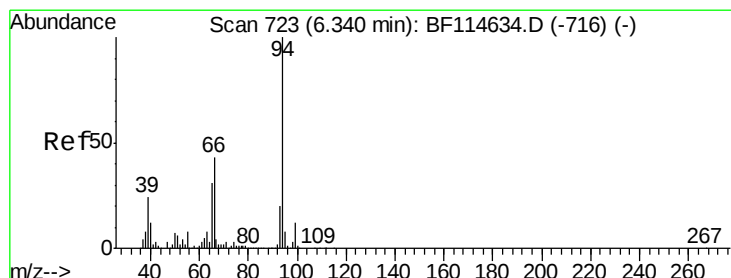
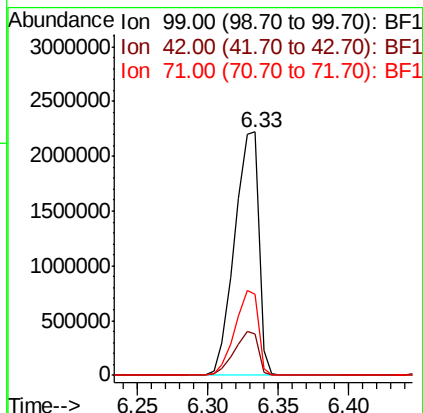
BNA\_F

ClientSampleId :

B-4S(4-5)

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#10

Phenol

Concen: 2.395 ng

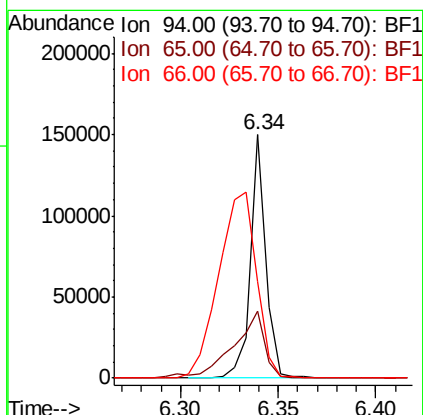
RT: 6.34 min Scan# 723

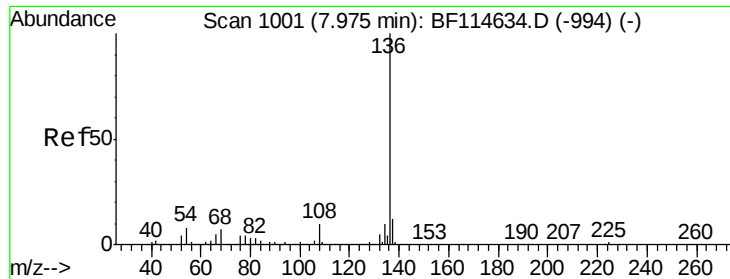
Delta R.T. -0.00 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 81887 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 27.4  | 11.0  | 51.0  |
| 66       | 39.4  | 23.0  | 63.0  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

Instrument :

BNA\_F

ClientSampleId :

B-4S(4-5)

Tot Ion:136 Resp: 1526740

Ion Ratio Lower Upper

136 100

137 11.4 9.3 13.9

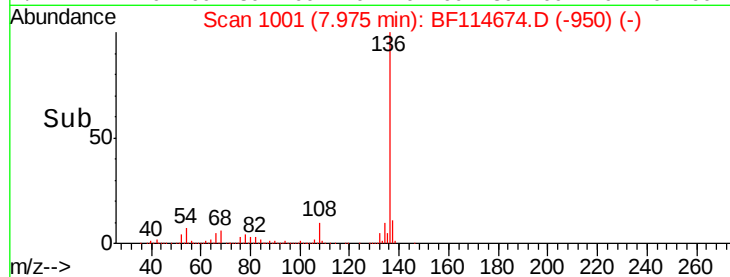
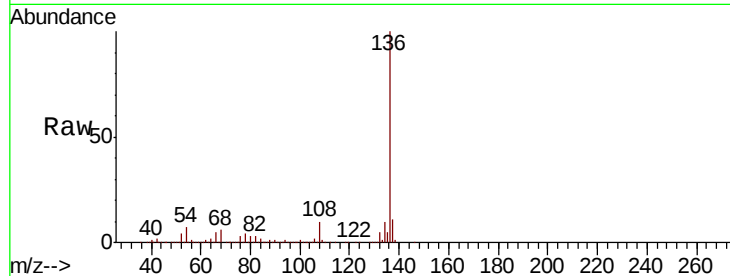
54 6.8 6.3 9.5

68 5.8 5.4 8.0

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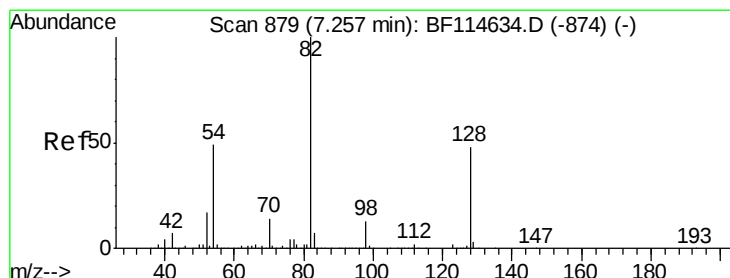
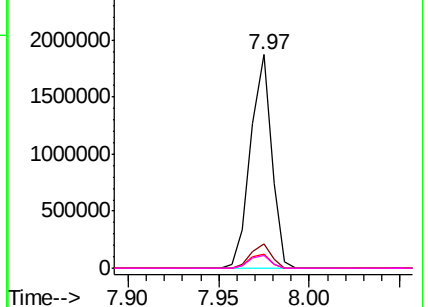


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 68.038 ng

RT: 7.25 min Scan# 878

Delta R.T. -0.01 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

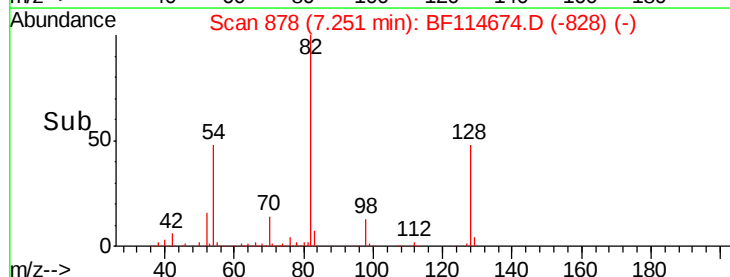
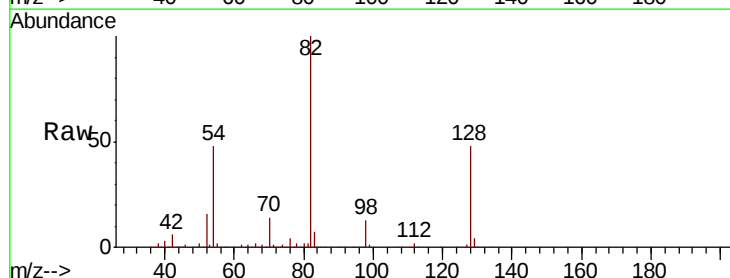
Tgt Ion: 82 Resp: 1664981

Ion Ratio Lower Upper

82 100

128 48.2 38.5 57.7

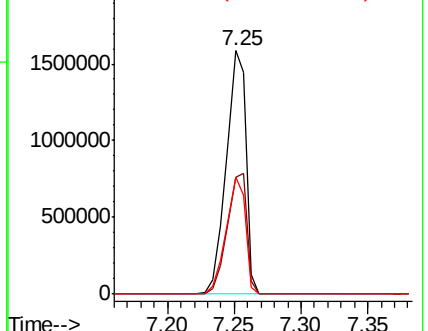
54 48.2 39.1 58.7

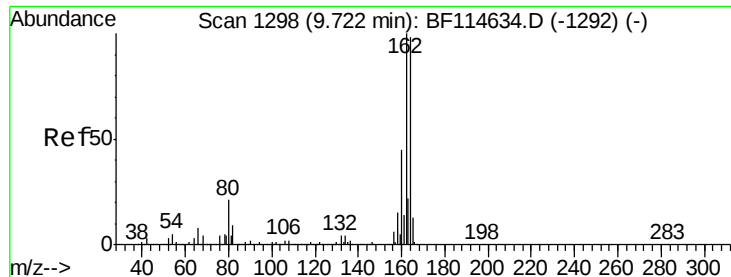


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





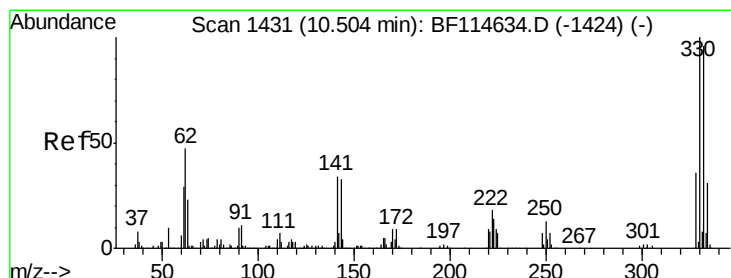
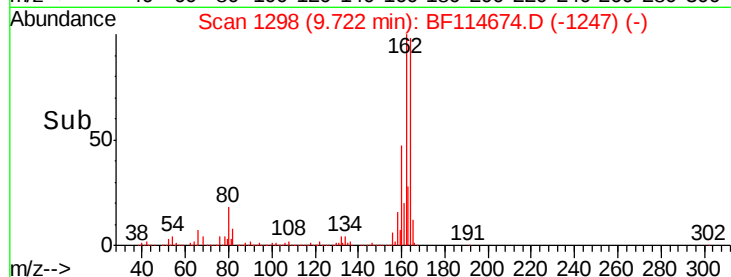
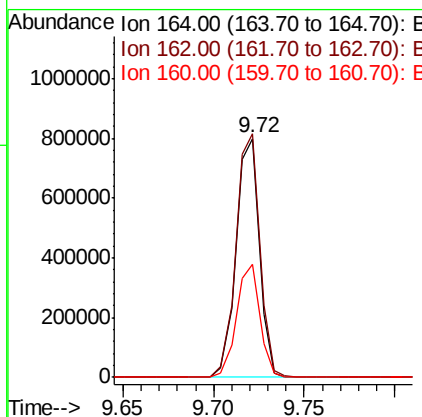
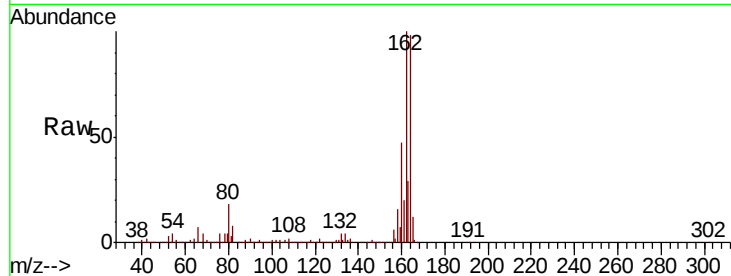
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.72 min Scan# 1298  
Delta R.T. -0.00 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampled :  
B-4S(4-5)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 718731 |       |       |
| 162     | 102.0 |        | 81.4  | 122.2 |
| 160     | 47.5  |        | 36.6  | 54.8  |

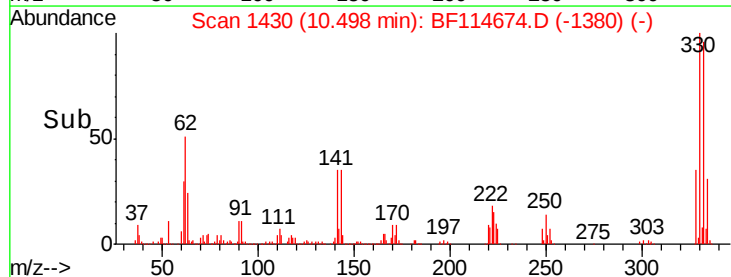
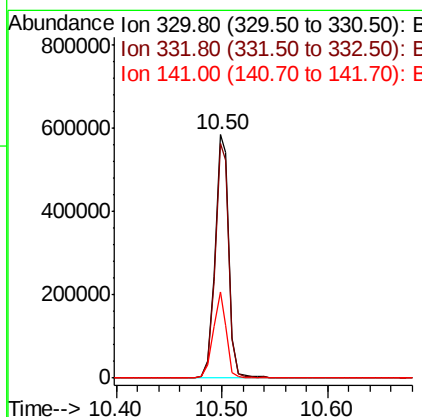
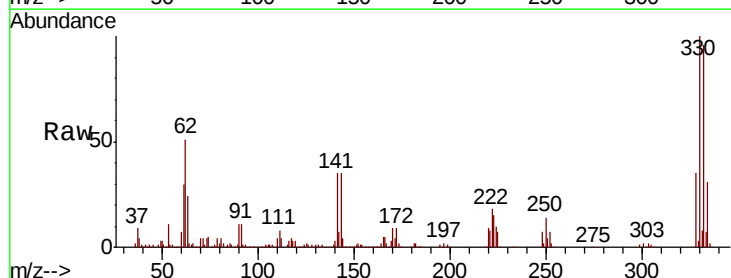
Manual Integrations  
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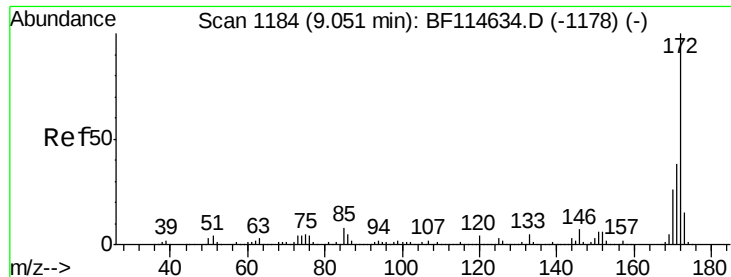
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#42  
2,4,6-Tribromophenol  
Concen: 80.147 ng  
RT: 10.50 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 548876 |       |       |
| 332     | 96.2  |        | 75.8  | 113.8 |
| 141     | 33.2  |        | 27.8  | 41.8  |





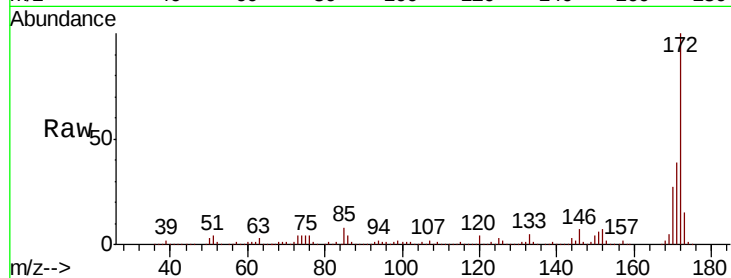
#45  
2-Fluorobiphenyl  
Concen: 68.449 ng  
RT: 9.05 min Scan# 1184  
Delta R.T. 0.00 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
B-4S(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.0  | 30.6  | 45.8  |
| 170     | 26.6  | 20.7  | 31.1  |

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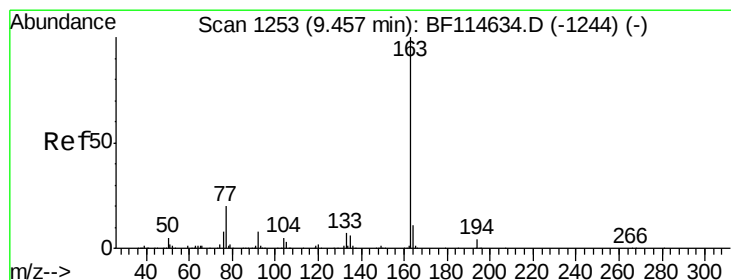
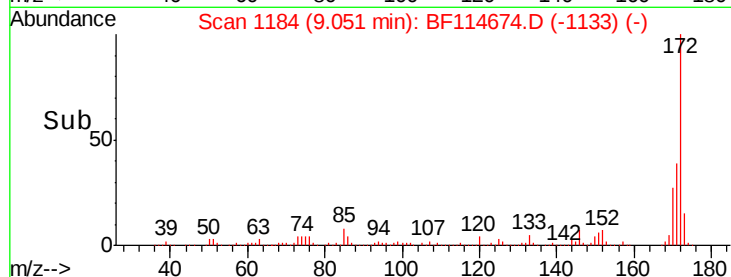
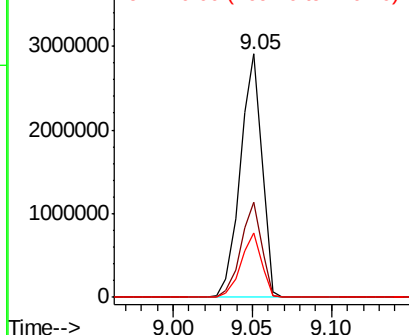


Abundance

Ion 172.00 (171.70 to 172.70): E

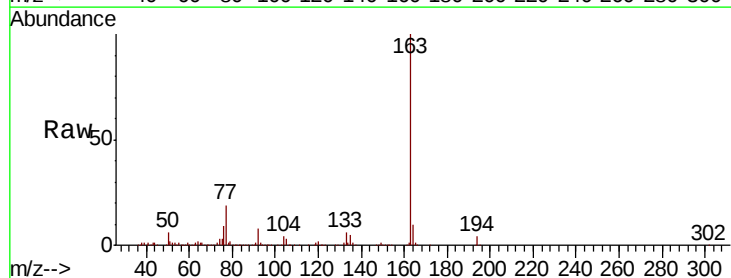
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 4.724 ng  
RT: 9.44 min Scan# 1250  
Delta R.T. -0.02 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.8   | 3.4   | 5.0   |
| 164     | 10.4  | 8.6   | 13.0  |

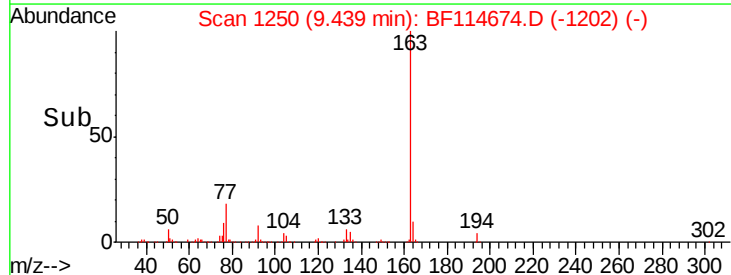
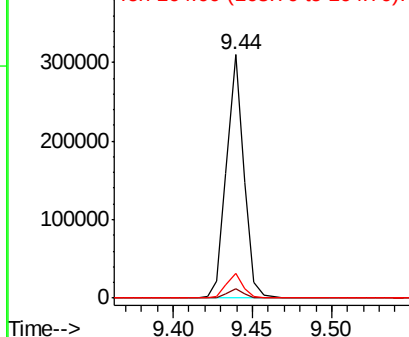


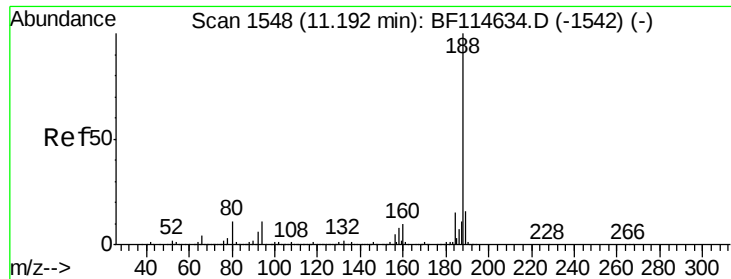
Abundance

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





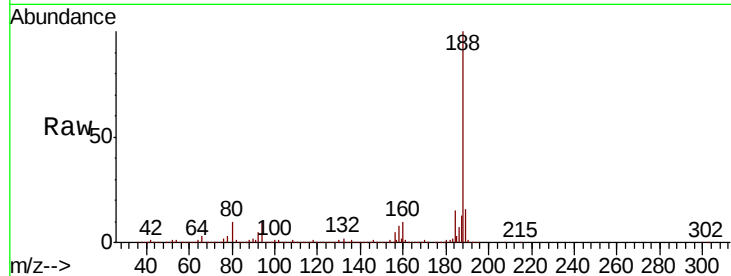
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.19 min Scan# 1548  
Delta R.T. -0.00 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
B-4S(4-5)

| Tot Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 188     | 100   | 1209221 |       |       |
| 94      | 9.7   |         | 8.6   | 13.0  |
| 80      | 10.2  |         | 9.0   | 13.6  |

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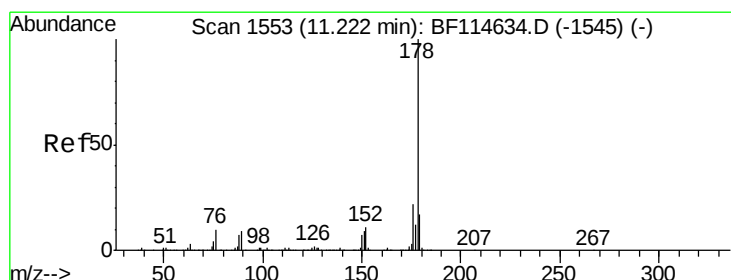
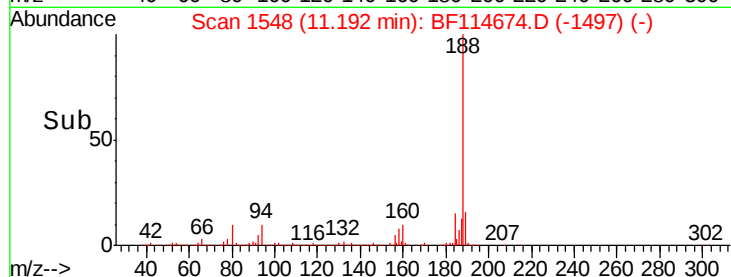
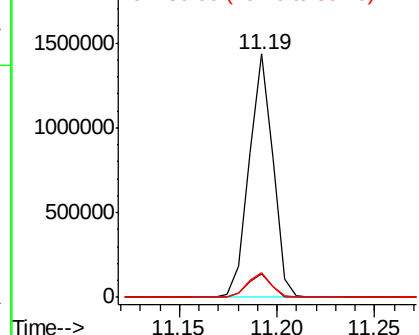


Abundance

Ion 188.00 (187.70 to 188.70): E

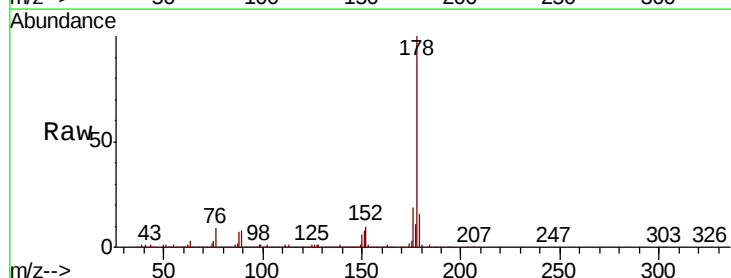
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71  
Phenanthrene  
Concen: 8.886 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 548149 |       |       |
| 176     | 19.4  |        | 17.2  | 25.8  |
| 179     | 15.8  |        | 13.9  | 20.9  |

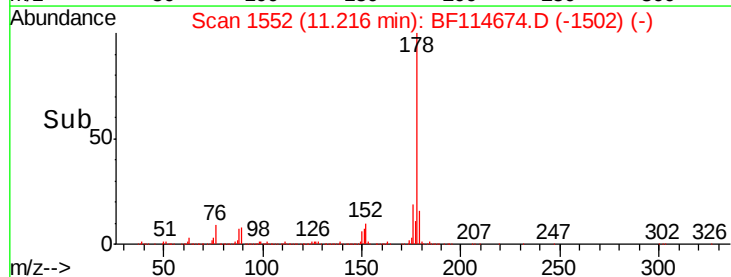
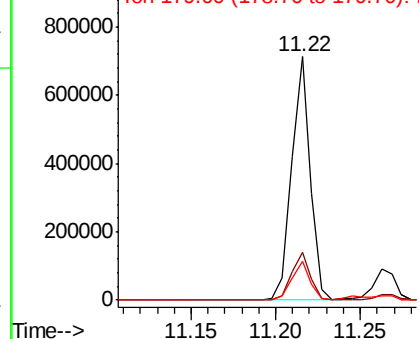


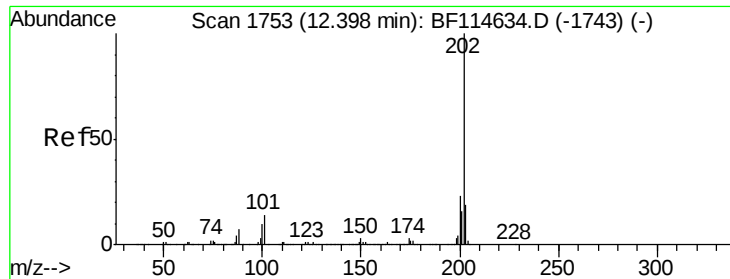
Abundance

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





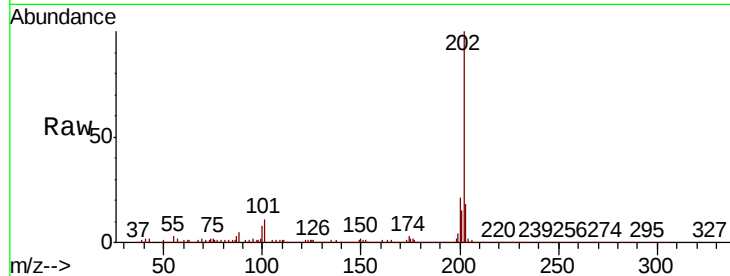
#75  
 Fluoranthene  
 Concen: 9.888 ng  
 RT: 12.40 min Scan# 1753  
 Delta R.T. 0.00 min  
 Lab File: BF114674.D  
 Acq: 30 May 2019 21:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-4S(4-5)

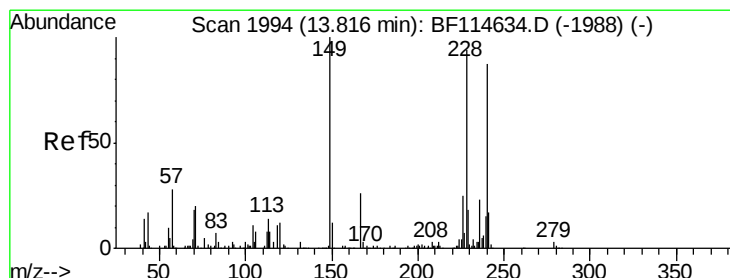
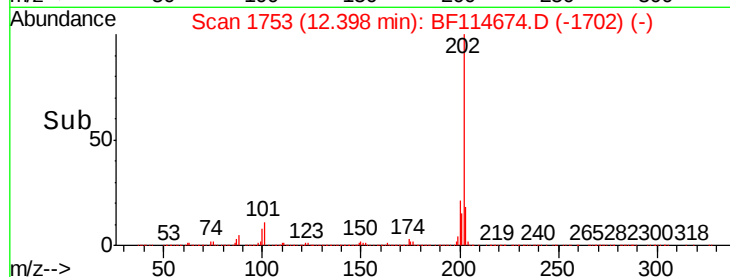
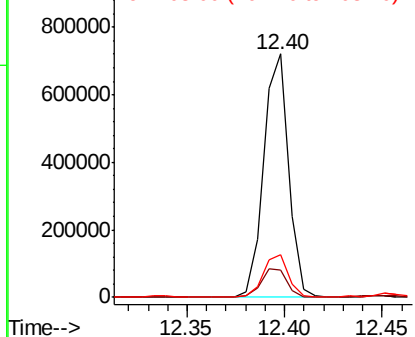
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.3  | 0.0        | 33.9  |
| 203     | 17.7  | 0.0        | 39.1  |

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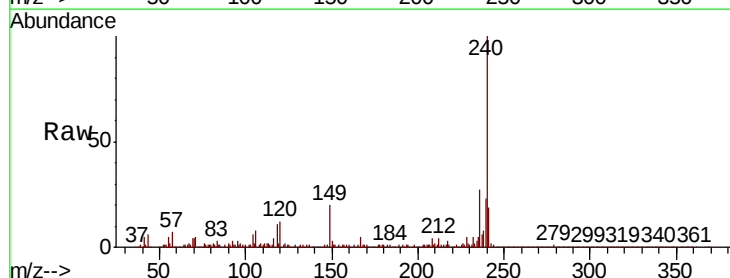


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

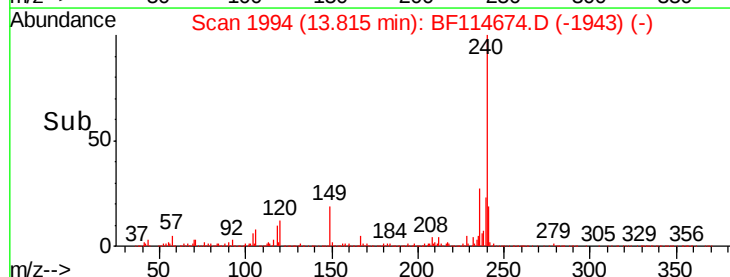
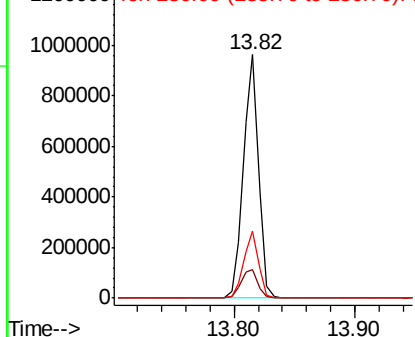


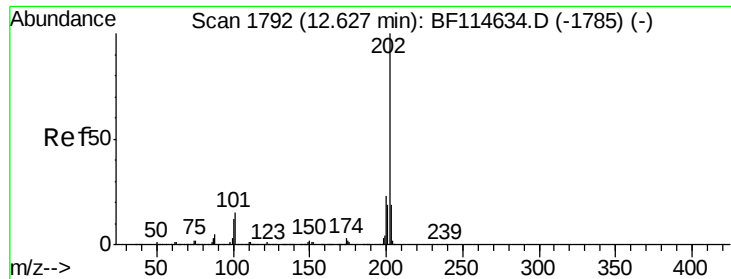
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.82 min Scan# 1994  
 Delta R.T. -0.00 min  
 Lab File: BF114674.D  
 Acq: 30 May 2019 21:41

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 11.9  | 11.2       | 16.8  |
| 236     | 27.3  | 21.2       | 31.8  |



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





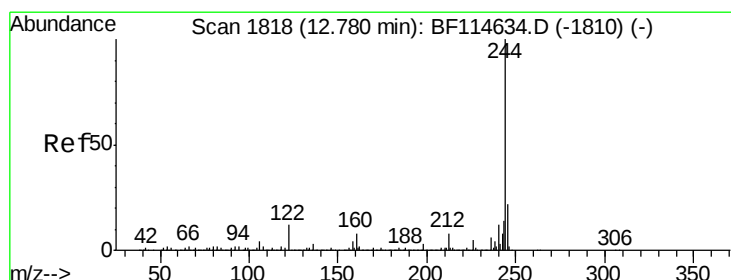
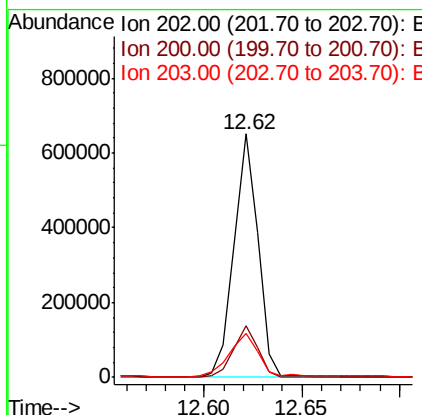
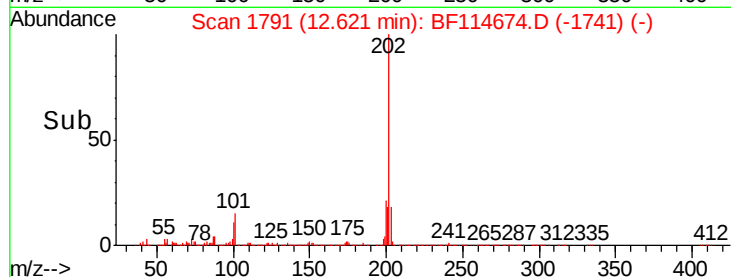
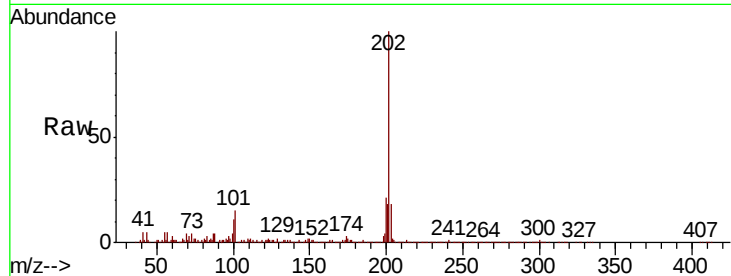
#78  
Pvrene  
Concen: 7.817 ng  
RT: 12.62 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
B-4S(4-5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.2  | 18.6       | 28.0  |
| 203     | 18.3  | 15.4       | 23.2  |

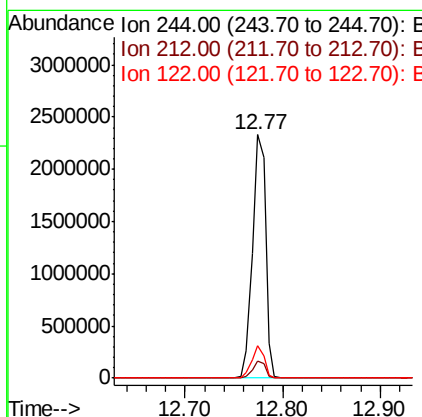
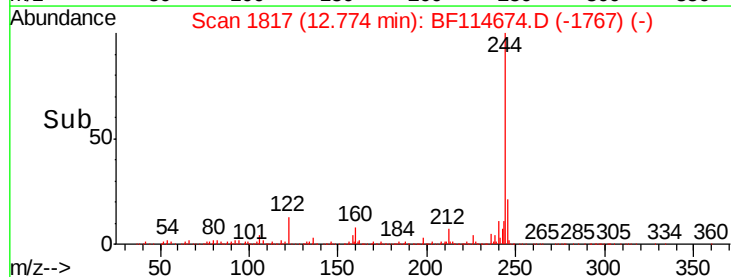
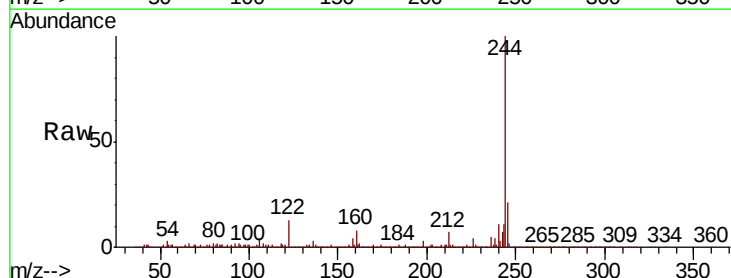
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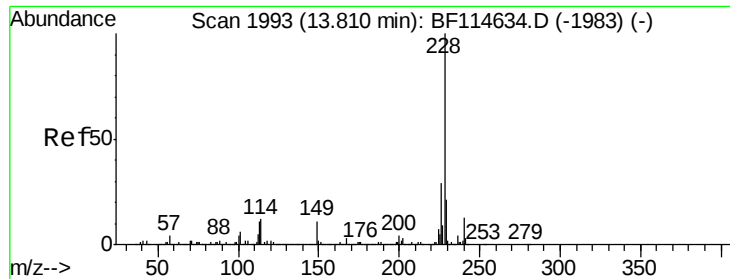
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#79  
Terphenyl-d14  
Concen: 49.724 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
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| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.0   | 6.1        | 9.1   |
| 122     | 13.1  | 9.8        | 14.8  |





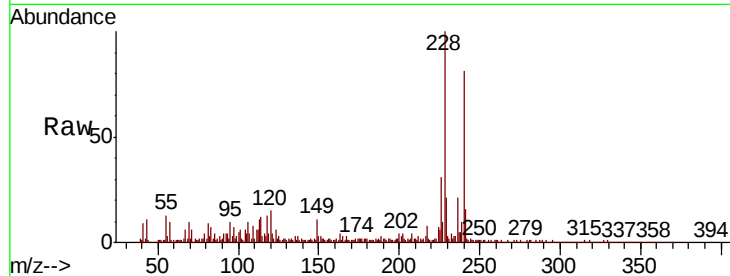
#81  
Benzo(a)anthracene  
Concen: 3.879 ng  
RT: 13.80 min Scan# 1992  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
B-4S(4-5)

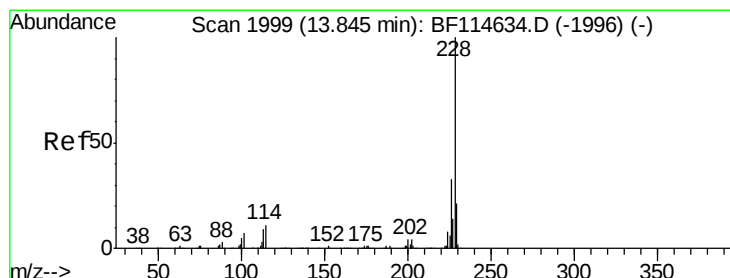
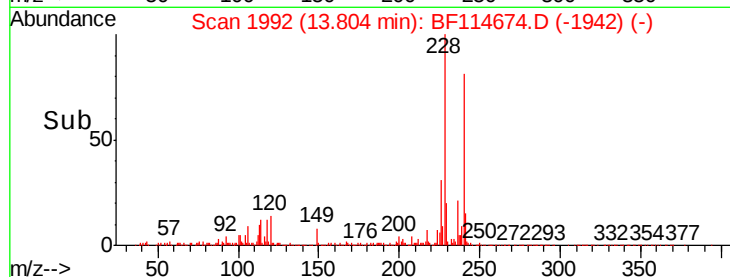
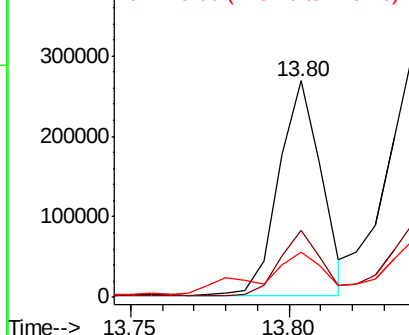
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 228     | 100  |       | 249747 |       |       |
| 226     | 31.2 | 23.0  | 34.6   |       |       |
| 229     | 21.1 | 17.0  | 25.4   |       |       |

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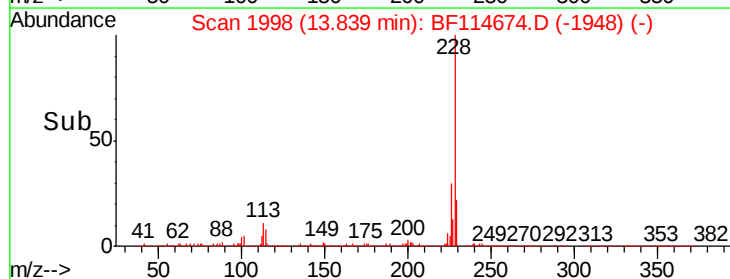
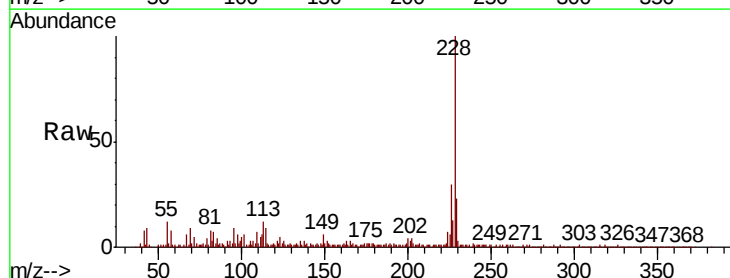
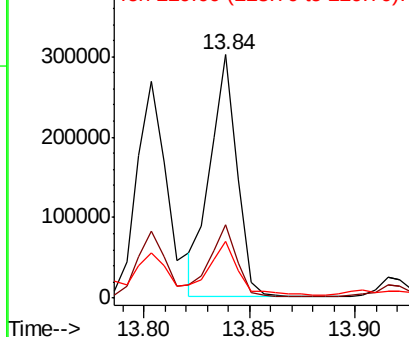
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

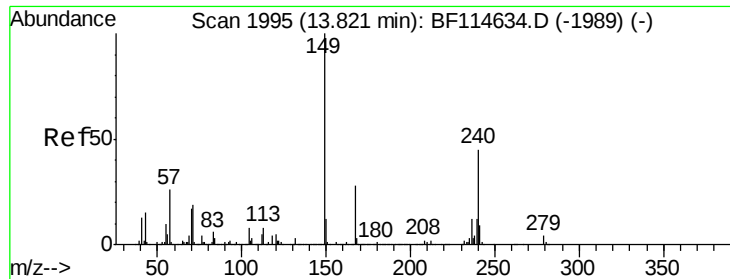


#83  
Chrysene  
Concen: 4.330 ng  
RT: 13.84 min Scan# 1998  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 228     | 100  |       | 266374 |       |       |
| 226     | 30.4 | 26.4  | 39.6   |       |       |
| 229     | 23.4 | 17.1  | 25.7   |       |       |

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: 6.201 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.00 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

Instrument :

BNA\_F

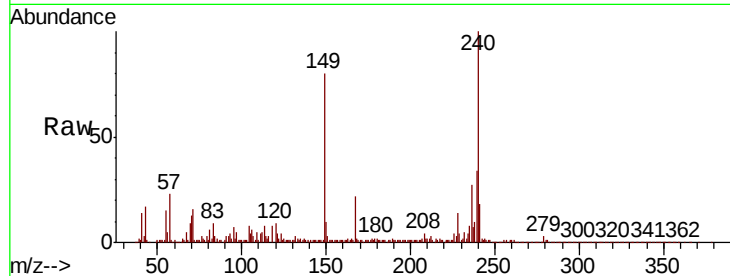
ClientSampleId :

B-4S(4-5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 273070 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 27.3  | 22.6  | 33.8   |
| 279       | 3.7   | 3.0   | 4.4    |

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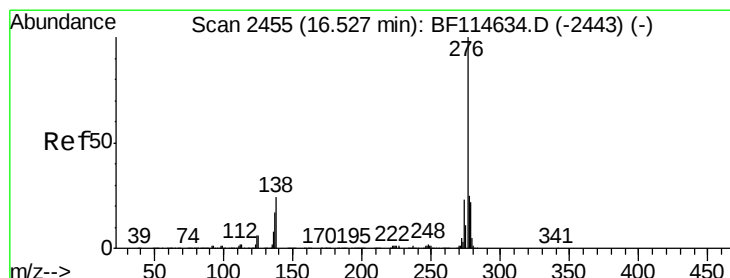
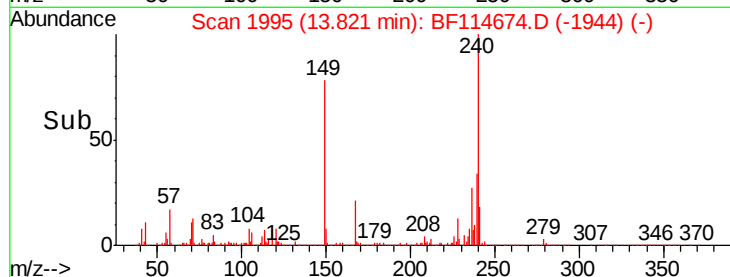
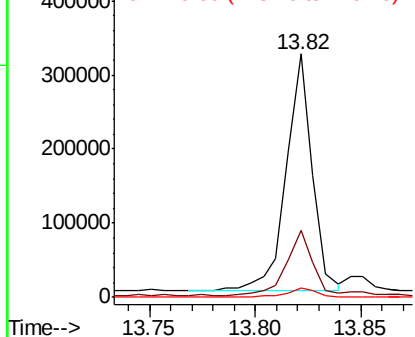


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.045 ng

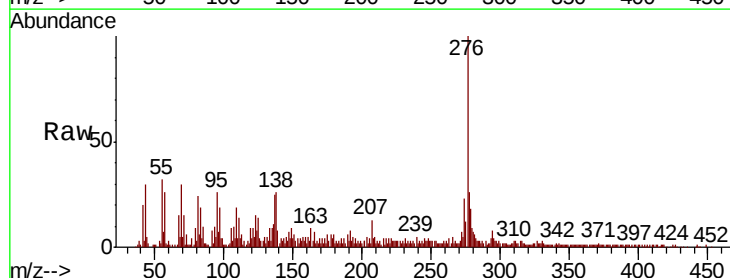
RT: 16.52 min Scan# 2454

Delta R.T. -0.01 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 125974 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 28.8  | 23.0  | 34.6   |
| 277       | 30.2  | 20.5  | 30.7   |

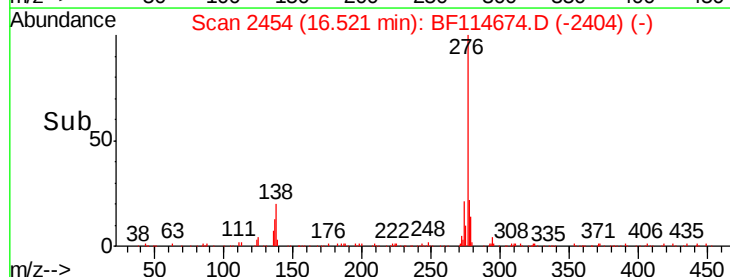
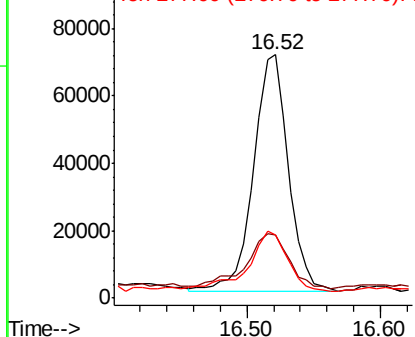


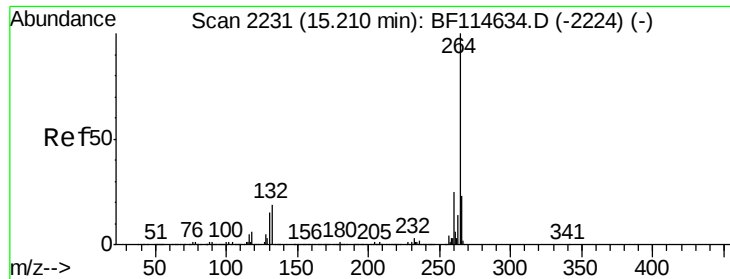
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BF114674.D

Acq: 30 May 2019 21:41

Instrument :

BNA\_F

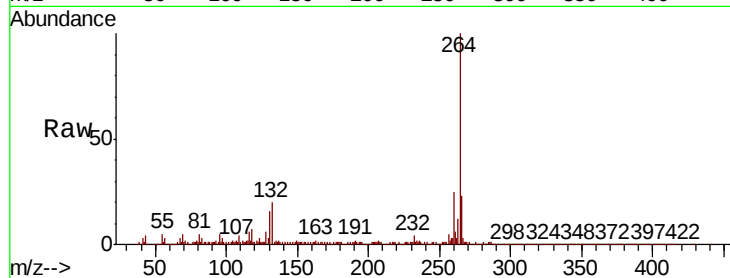
ClientSampleId :

B-4S(4-5)

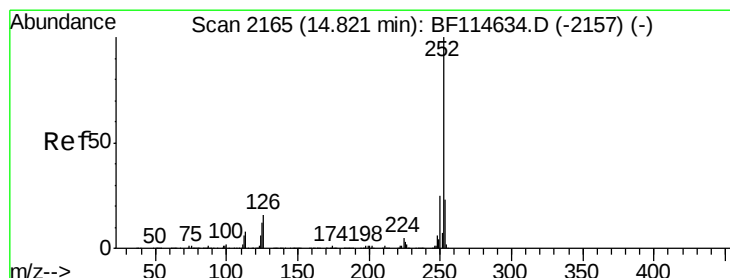
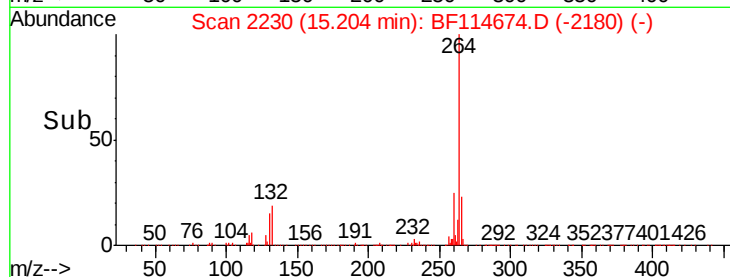
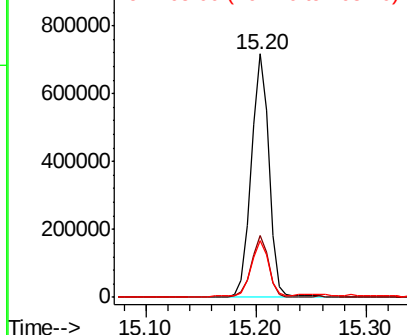
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 804483 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 25.1  | 19.7  | 29.5   |
| 265       | 23.1  | 18.1  | 27.1   |

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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 7.188 ng m

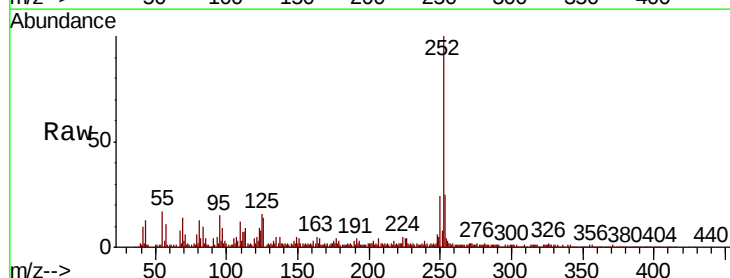
RT: 14.82 min Scan# 2164

Delta R.T. -0.01 min

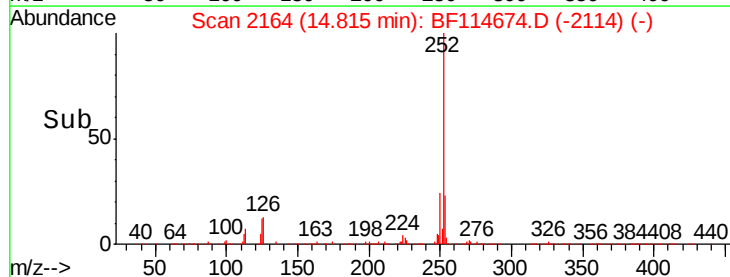
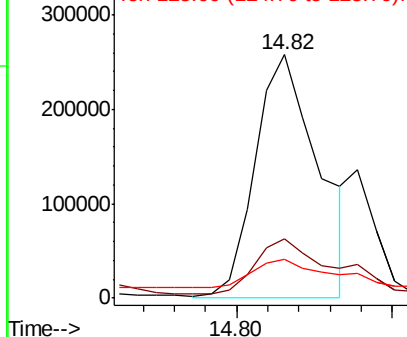
Lab File: BF114674.D

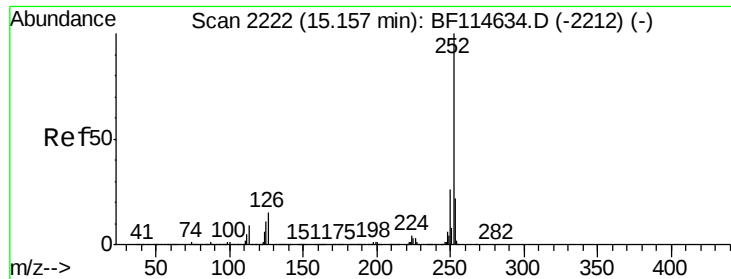
Acq: 30 May 2019 21:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 364217 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.6  | 18.7  | 28.1   |
| 125       | 15.8  | 9.4   | 14.2#  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





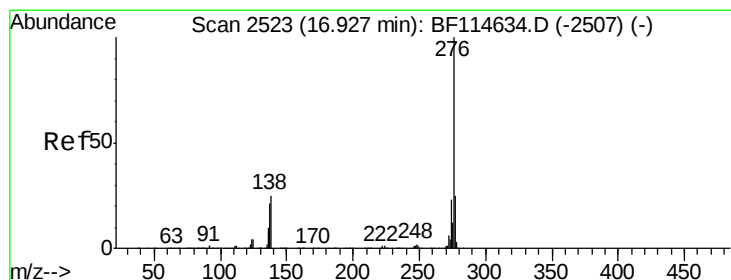
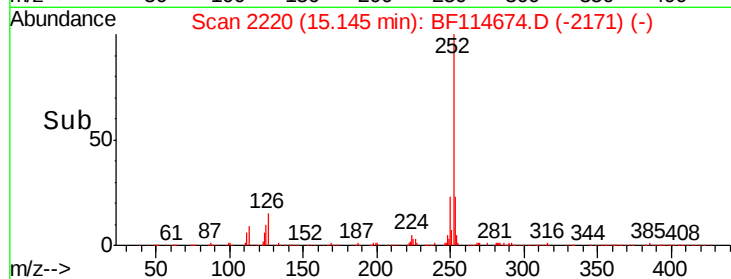
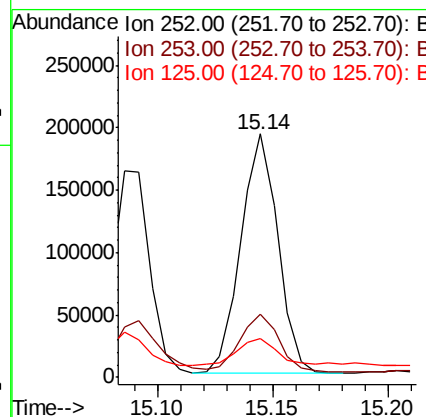
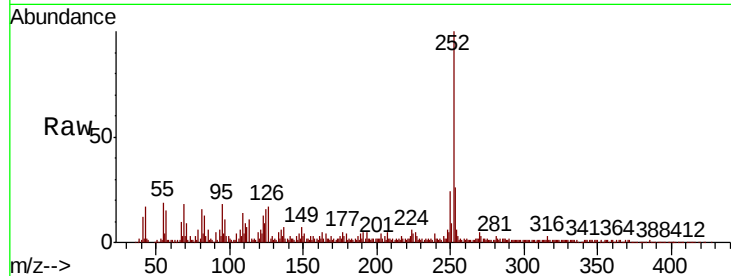
#90  
Benzo(a)pyrene  
Concen: 4.834 ng  
RT: 15.14 min Scan# 2220  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
B-4S(4-5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 25.8  | 18.0       | 27.0  |
| 125     | 15.9  | 9.2        | 13.8  |

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#92  
Benzo(g,h,i)perylene  
Concen: 4.212 ng  
RT: 16.92 min Scan# 2521  
Delta R.T. -0.01 min  
Lab File: BF114674.D  
Acq: 30 May 2019 21:41

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 25.6  | 19.7       | 29.5  |
| 138     | 28.7  | 19.8       | 29.8  |

