

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021219\  
 Data File : BF112512.D  
 Acq On : 12 Feb 2019 15:45  
 Operator : JU/SJ  
 Sample : K1459-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M-10-S

Manual Integrations  
 APPROVED

Sohil  
 2/13/2019 11:12:10 AM

Quant Time: Feb 13 04:13:22 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  | 112414   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.12  | 136  | 432715   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.87  | 164  | 197759   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.36 | 188  | 335580   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.00 | 240  | 259077   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.49 | 264  | 278120   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 399113   | 75.41 | ng    | -0.01    |
| 7) Phenol-d6                | 6.48  | 99   | 509489   | 69.28 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 328368   | 43.73 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 130613   | 56.74 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 657383   | 47.01 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.94 | 244  | 528800   | 38.44 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.59  | 163  | 48005    | 3.124 | ng    | 99       |
| 75) Fluoranthene            | 12.57 | 202  | 110087   | 5.883 | ng    | 98       |
| 78) Pyrene                  | 12.80 | 202  | 103622   | 5.777 | ng    | 96       |
| 81) Benzo(a)anthracene      | 14.00 | 228  | 60584    | 3.978 | ng    | 96       |
| 83) Chrysene                | 14.03 | 228  | 55422    | 3.812 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.98 | 276  | 43643    | 3.789 | ng    | # 91     |
| 88) Benzo(b)fluoranthene    | 15.06 | 252  | 89755m   | 5.396 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.08 | 252  | 35262m   | 2.213 | ng    |          |
| 90) Benzo(a)pyrene          | 15.42 | 252  | 71598    | 4.784 | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 17.43 | 276  | 42585    | 3.742 | ng    | 94       |

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

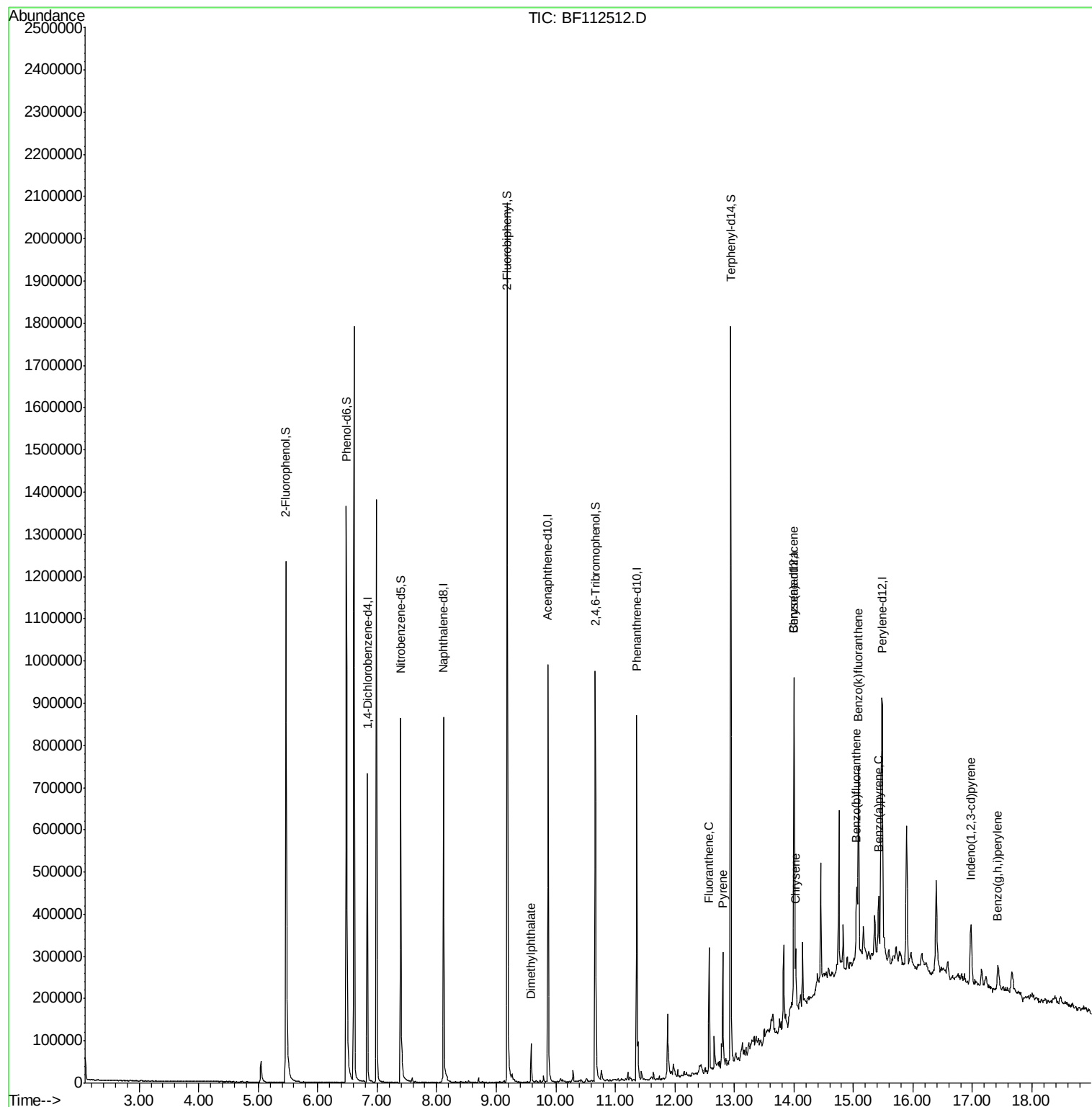
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021219\  
Data File : BF112512.D  
Acq On : 12 Feb 2019 15:45  
Operator : JU/SJ  
Sample : K1459-03  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

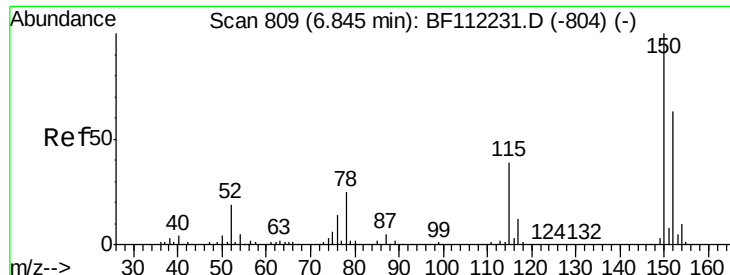
Instrument :  
BNA\_F  
ClientSampled :  
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Quant Time: Feb 13 04:13:22 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 28 10:38:18 2019  
Response via : Initial Calibration





#1

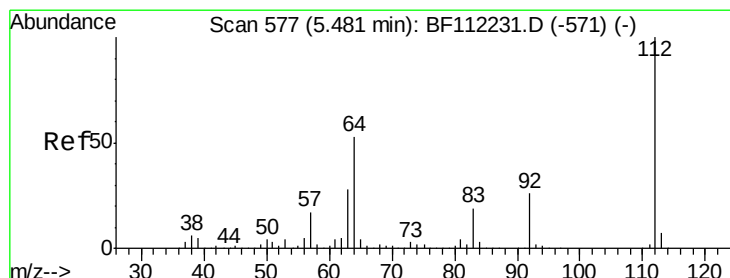
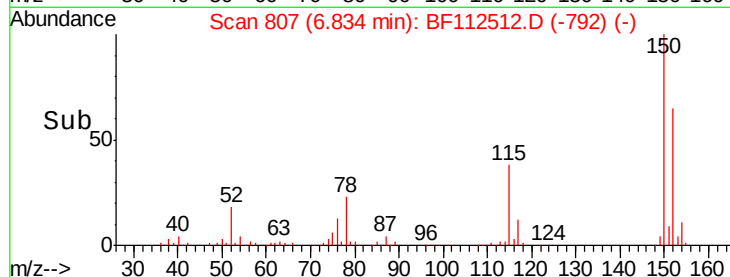
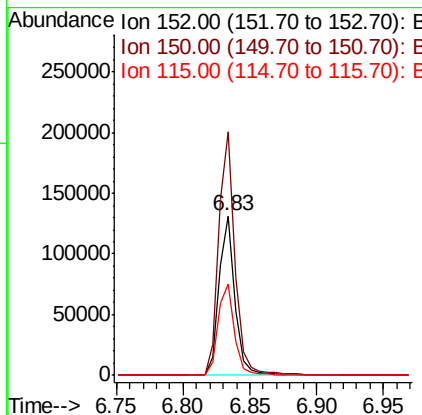
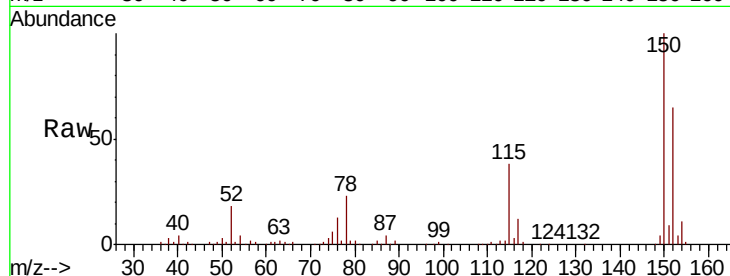
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 807  
Delta R.T. -0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Instrument :  
BNA\_F  
ClientSampled :  
M-10-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.8 | 127.4 | 191.0 |
| 115     | 57.7  | 45.5  | 68.3  |

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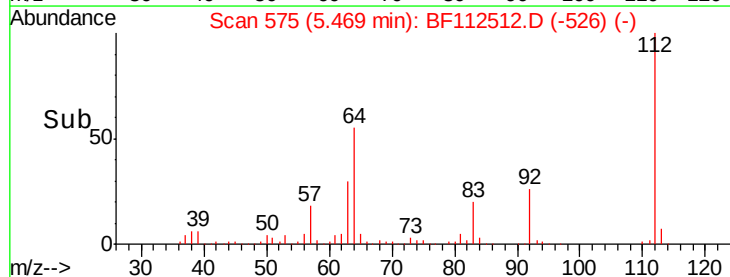
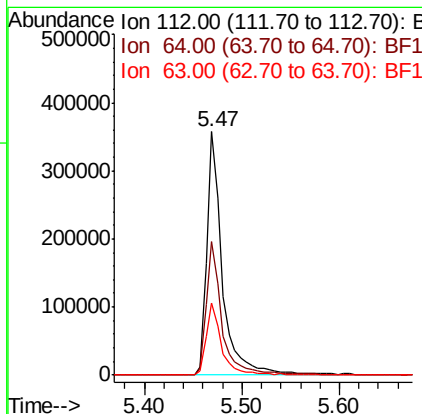
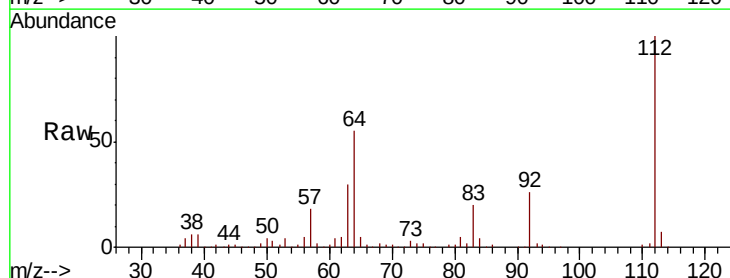
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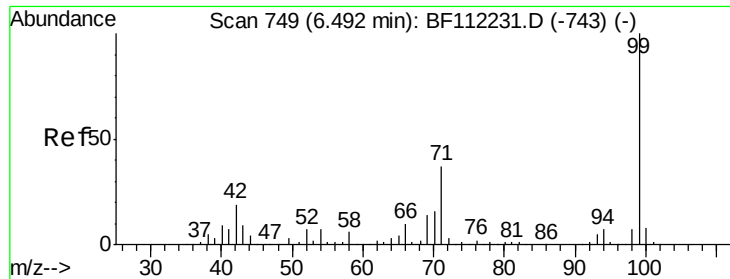


#5

2-Fluorophenol  
Concen: 75.413 ng  
RT: 5.47 min Scan# 575  
Delta R.T. -0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.1  | 45.7  | 68.5  |
| 63      | 29.8  | 23.6  | 35.4  |





#7

Phenol-d6

Concen: 69.280 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112512.D

Acq: 12 Feb 2019 15:45

Instrument :

BNA\_F

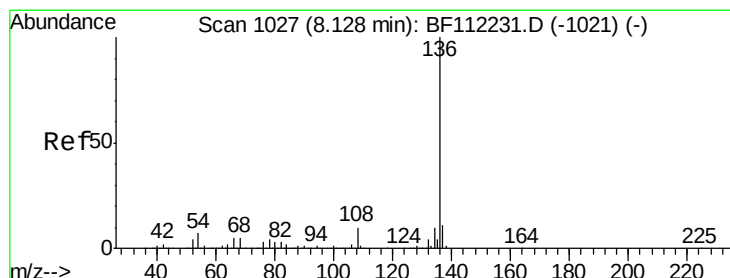
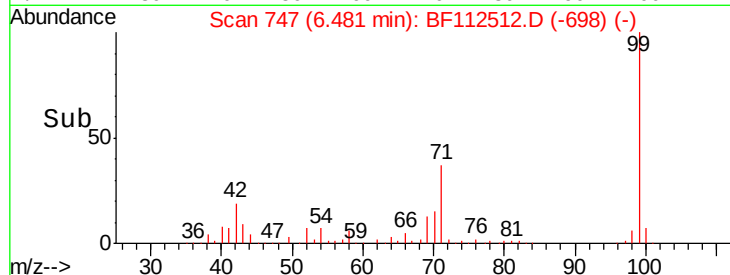
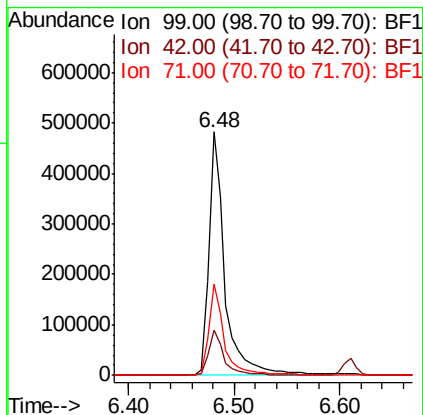
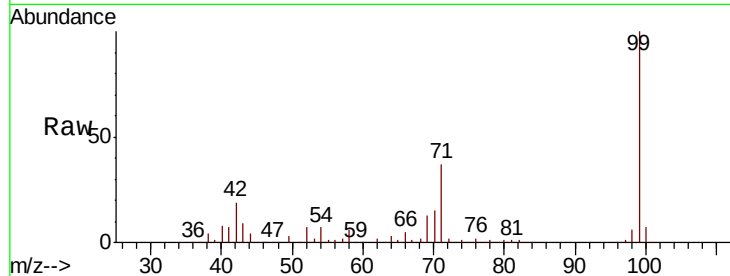
ClientSampleId :

M-10-S

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 509489 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.7  | 15.1  | 22.7   |
| 71       | 37.3  | 26.9  | 40.3   |

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#21

Naphthalene-d8

Concen: 20.000 ng

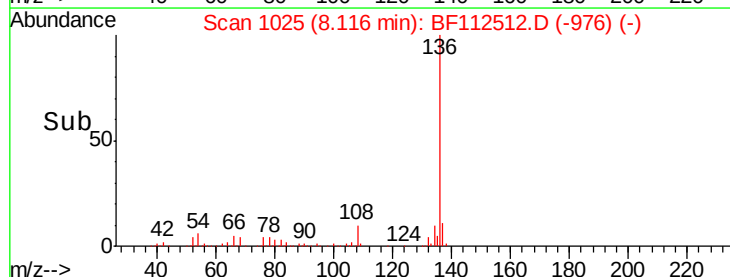
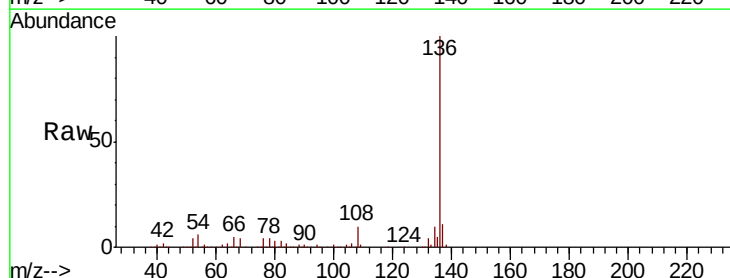
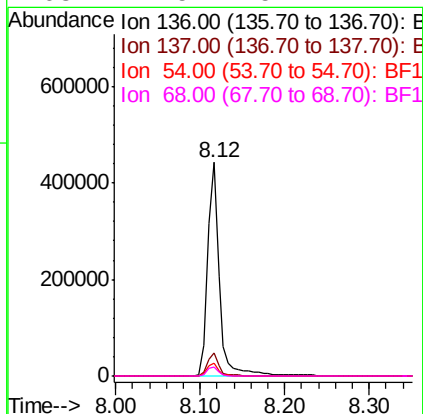
RT: 8.12 min Scan# 1025

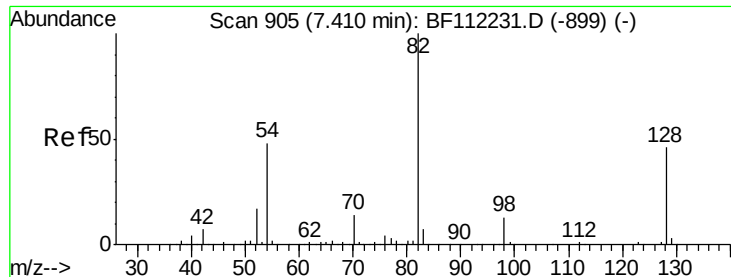
Delta R.T. -0.01 min

Lab File: BF112512.D

Acq: 12 Feb 2019 15:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 432715 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.1   | 13.7   |
| 54       | 6.2   | 5.9   | 8.9    |
| 68       | 4.5   | 5.1   | 7.7#   |





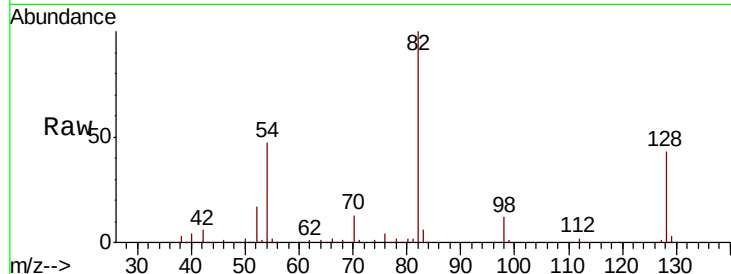
#23  
 Nitrobenzene-d5  
 Concen: 43.725 ng  
 RT: 7.39 min Scan# 902  
 Delta R.T. -0.02 min  
 Lab File: BF112512.D  
 Acq: 12 Feb 2019 15:45

Instrument :  
 BNA\_F  
 ClientSampled :  
 M-10-S

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.3  | 37.8 | 56.8  |       |
| 54      | 47.2  | 39.7 | 59.5  |       |

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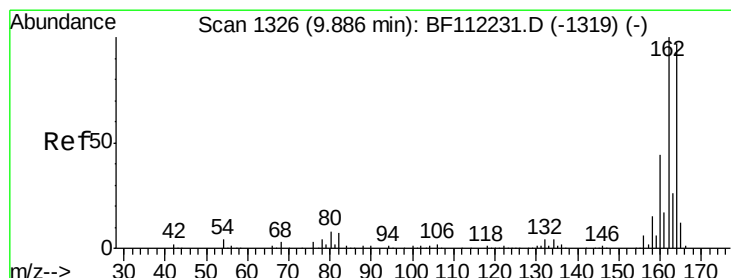
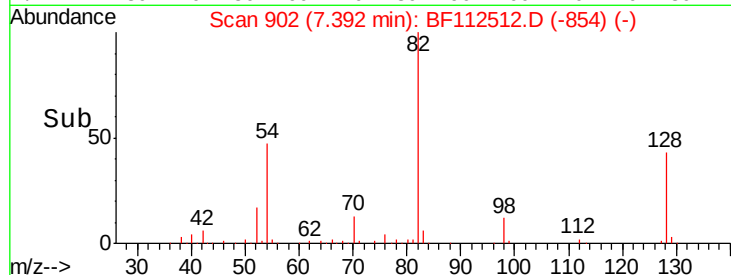
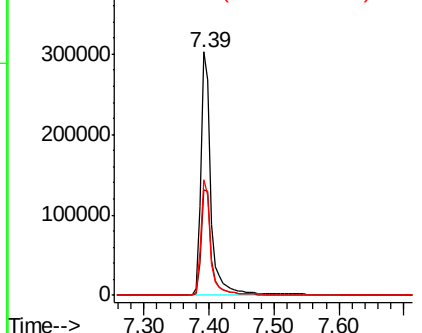


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. -0.02 min  
 Lab File: BF112512.D  
 Acq: 12 Feb 2019 15:45

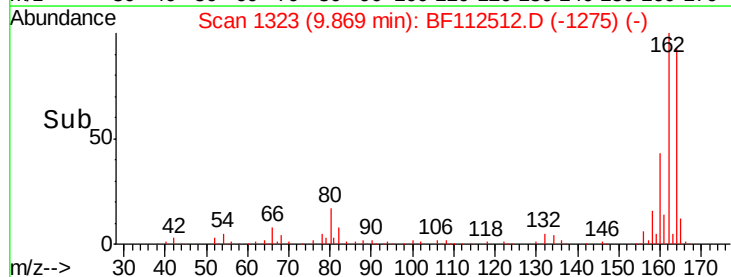
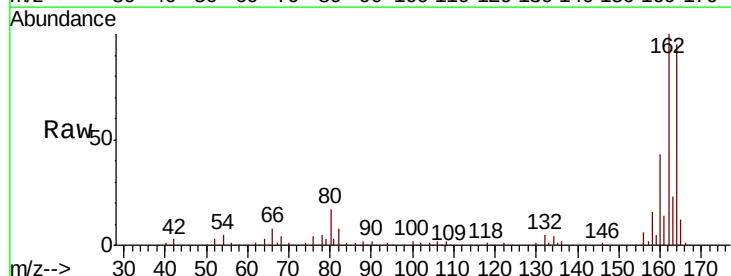
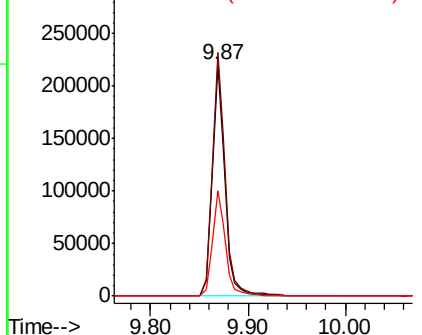
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 105.4 | 82.2 | 123.4 |       |
| 160     | 45.6  | 36.2 | 54.4  |       |

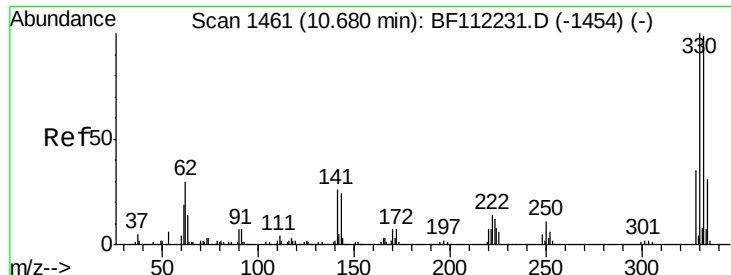
Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





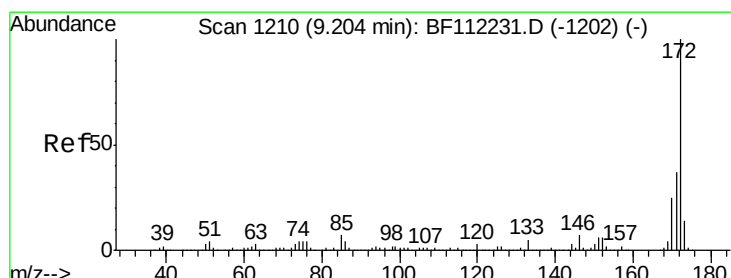
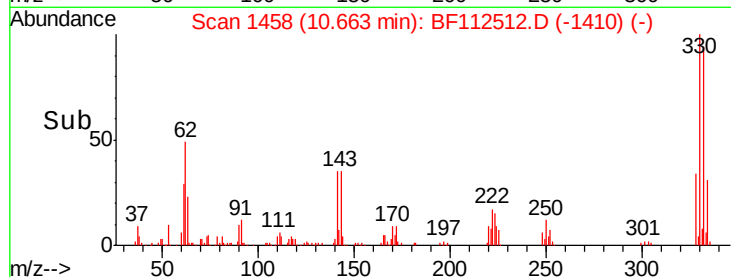
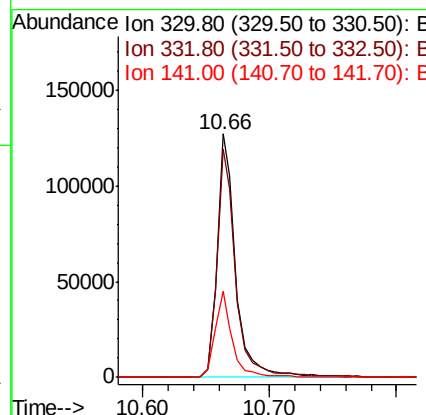
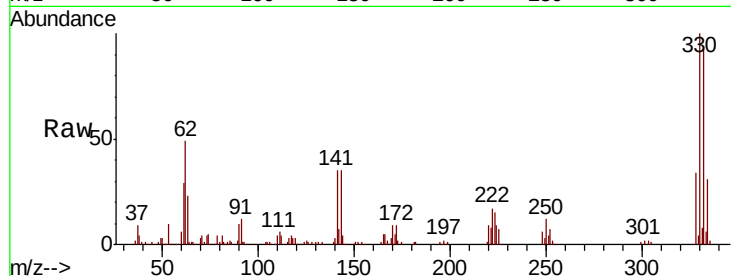
#42  
 2,4,6-Tribromophenol  
 Concen: 56.742 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.02 min  
 Lab File: BF112512.D  
 Acq: 12 Feb 2019 15:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M-10-S

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 130613 |       |       |
| 332     | 95.2  | 76.6   | 114.8 |       |
| 141     | 32.9  | 24.3   | 36.5  |       |

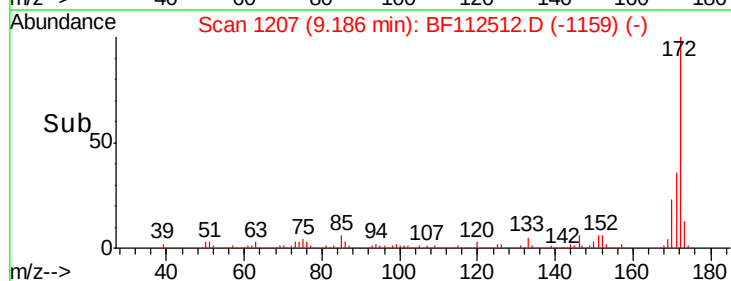
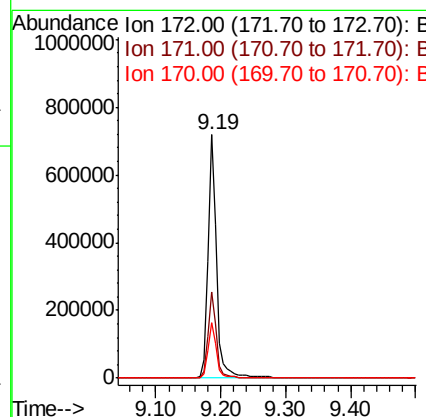
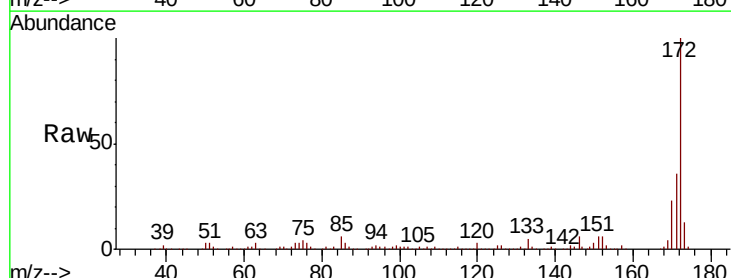
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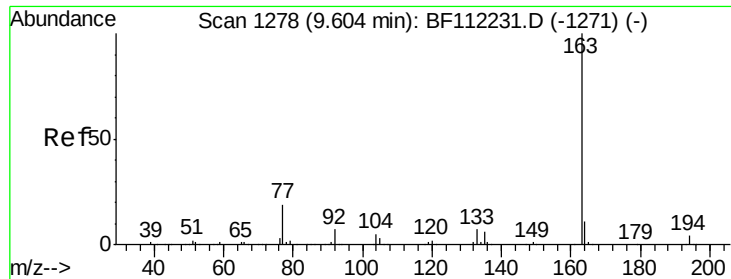
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#45  
 2-Fluorobiphenyl  
 Concen: 47.015 ng  
 RT: 9.19 min Scan# 1207  
 Delta R.T. -0.02 min  
 Lab File: BF112512.D  
 Acq: 12 Feb 2019 15:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 657383 |       |       |
| 171     | 35.6  | 30.5   | 45.7  |       |
| 170     | 22.8  | 20.2   | 30.4  |       |





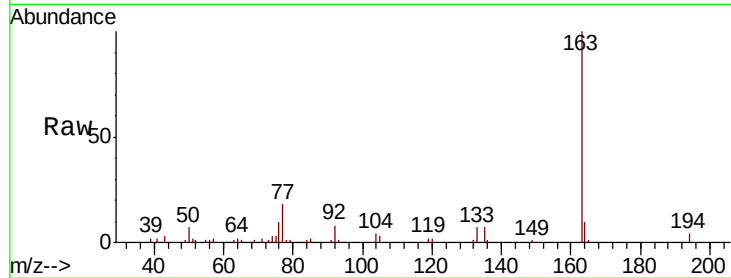
#50  
Dimethylphthalate  
Concen: 3.124 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Instrument :  
BNA\_F  
ClientSampled :  
M-10-S

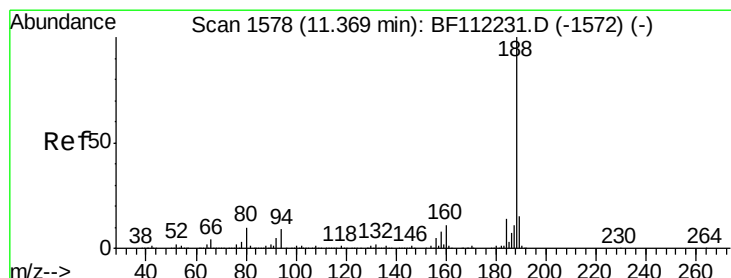
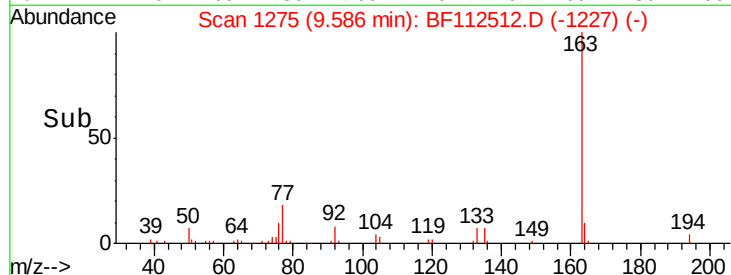
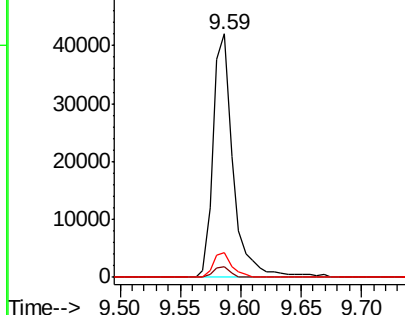
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.2   | 3.3   | 4.9   |
| 164     | 9.9   | 8.5   | 12.7  |

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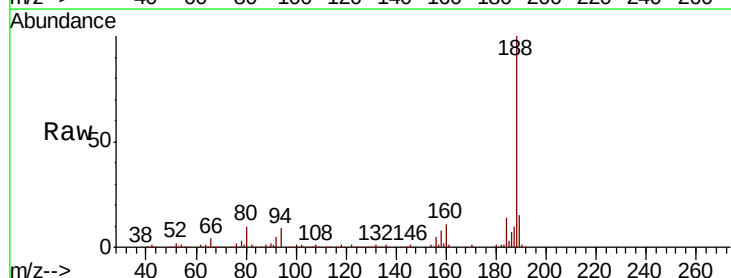


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

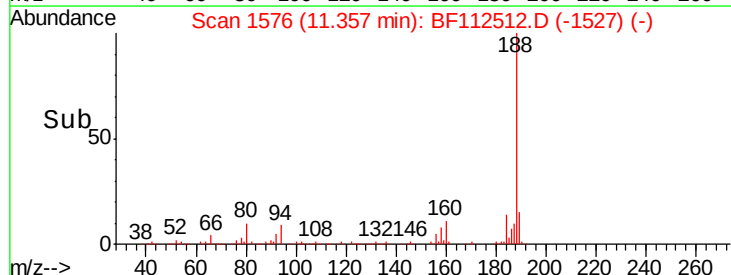
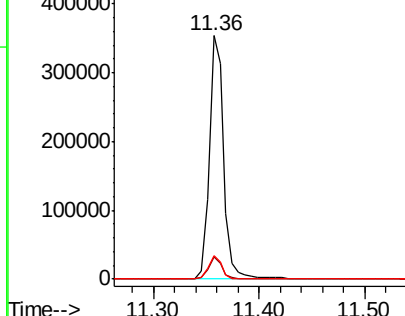


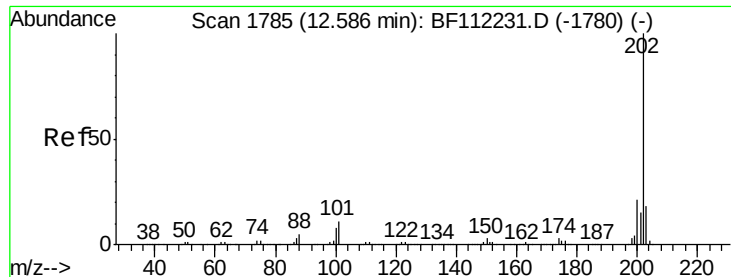
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1576  
Delta R.T. -0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.9   | 8.2   | 12.2  |
| 80      | 9.7   | 8.9   | 13.3  |



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





#75

Fluoranthene

Concen: 5.883 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112512.D

Acq: 12 Feb 2019 15:45

Instrument :

BNA\_F

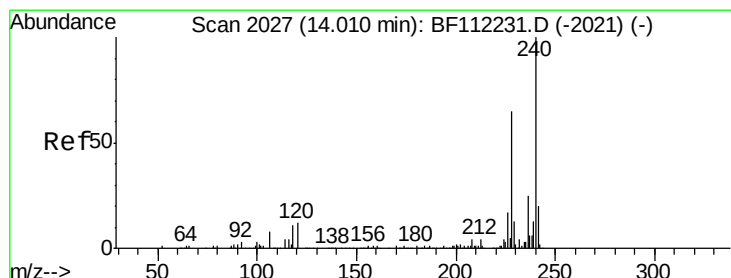
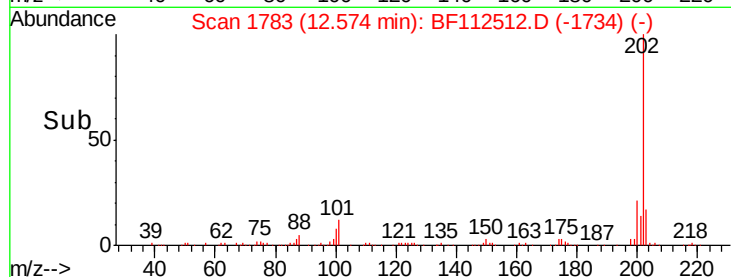
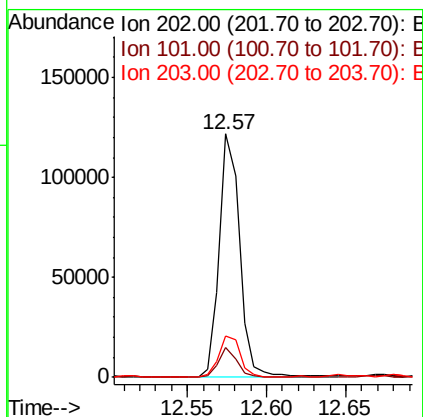
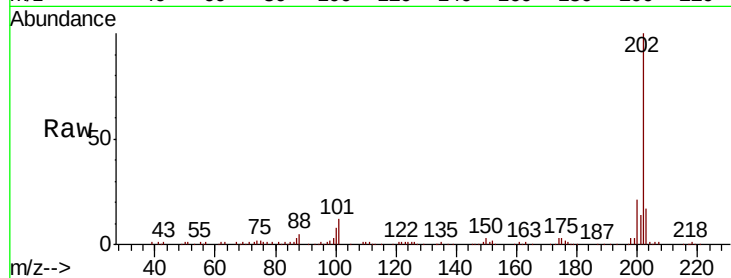
ClientSampleId :

M-10-S

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 110087 |       |       |
| 101     | 12.2 | 0.0   | 31.8   |       |       |
| 203     | 17.0 | 0.0   | 38.4   |       |       |

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#76

Chrysene-d12

Concen: 20.000 ng

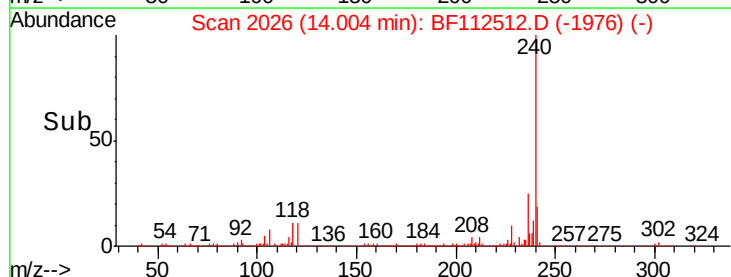
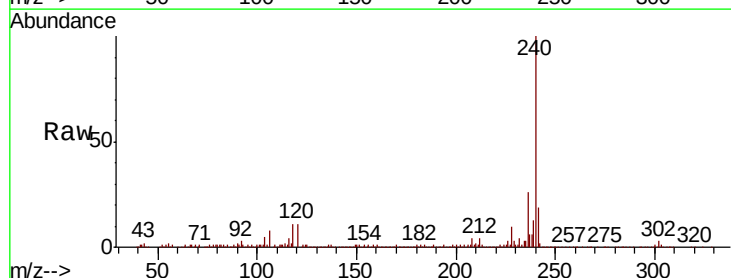
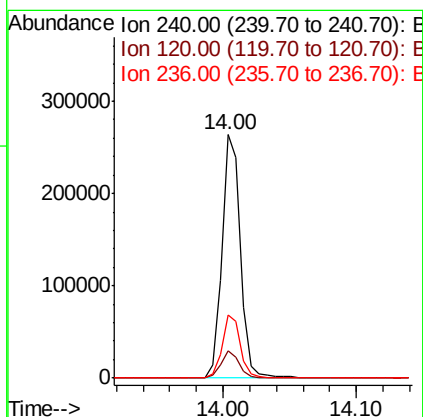
RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

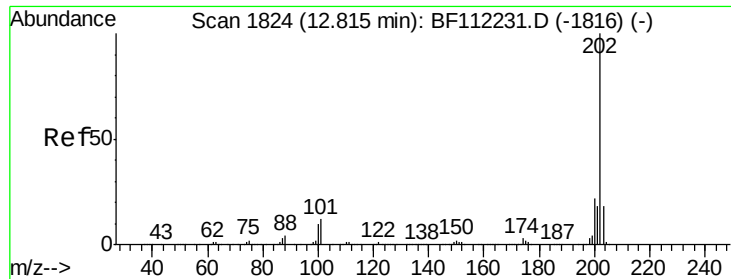
Lab File: BF112512.D

Acq: 12 Feb 2019 15:45

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 259077 |       |       |
| 120     | 11.1 | 9.0   | 13.6   |       |       |
| 236     | 25.7 | 20.7  | 31.1   |       |       |







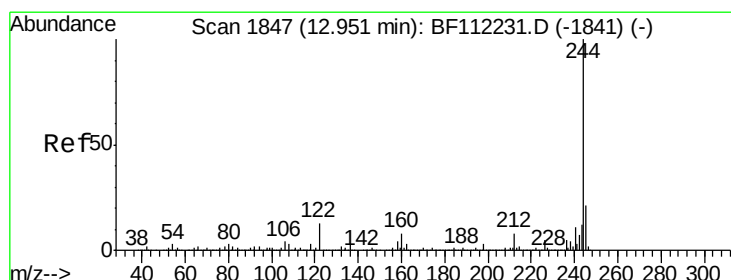
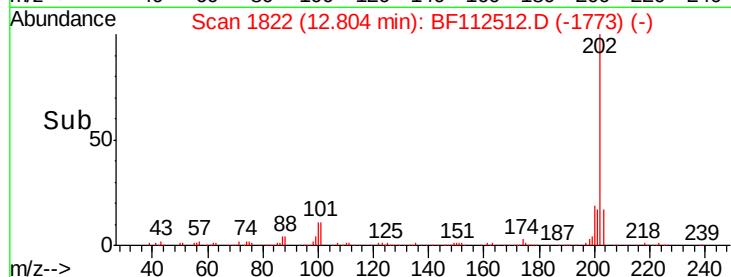
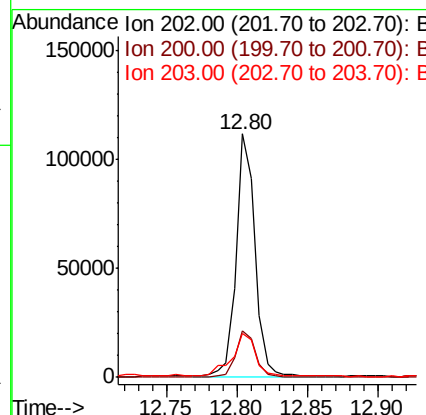
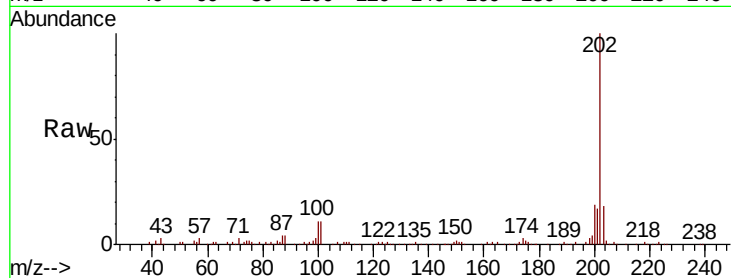
#78  
Pvrene  
Concen: 5.777 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. -0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
M-10-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.3  | 17.7  | 26.5  |
| 203     | 17.8  | 14.6  | 22.0  |

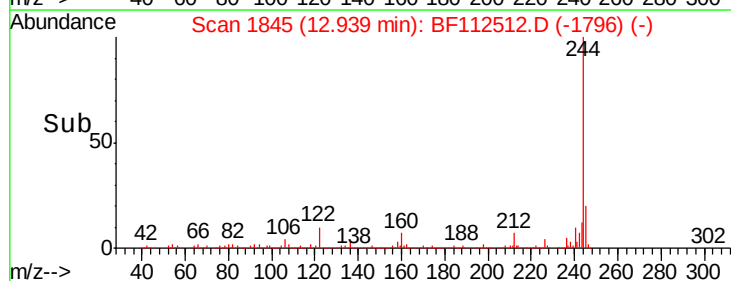
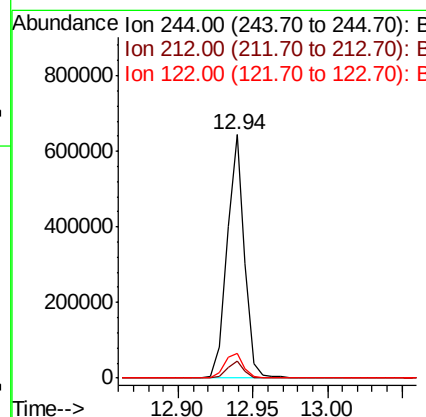
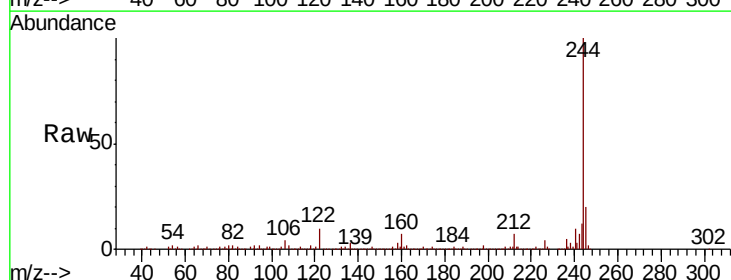
Manual Integrations  
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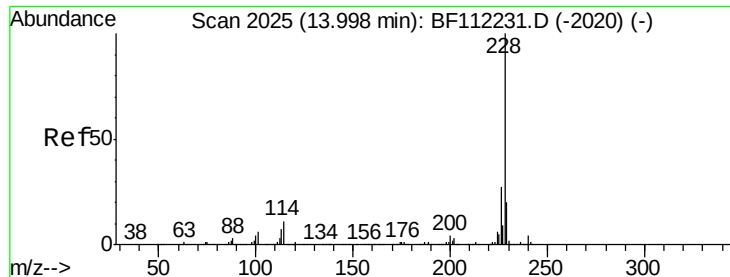
Sohil  
2/13/2019 11:12:10 AM



#79  
Terphenyl-d14  
Concen: 38.443 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. -0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.9   | 8.9   |
| 122     | 10.2  | 9.8   | 14.6  |





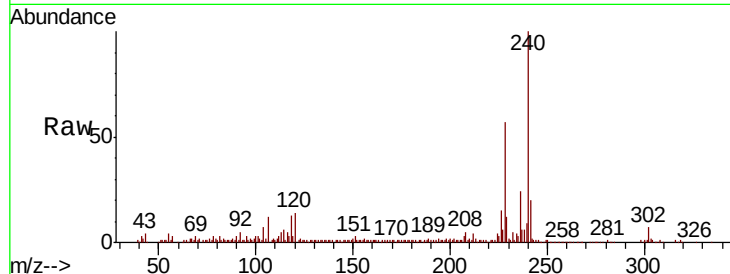
#81  
Benzo(a)anthracene  
Concen: 3.978 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. 0.00 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
M-10-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.0  | 22.6  | 34.0  |
| 229     | 21.7  | 16.5  | 24.7  |

Manual Integrations  
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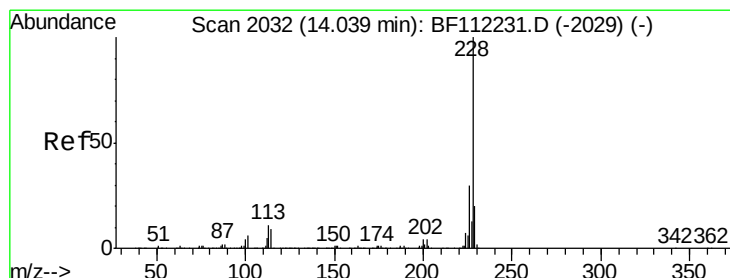
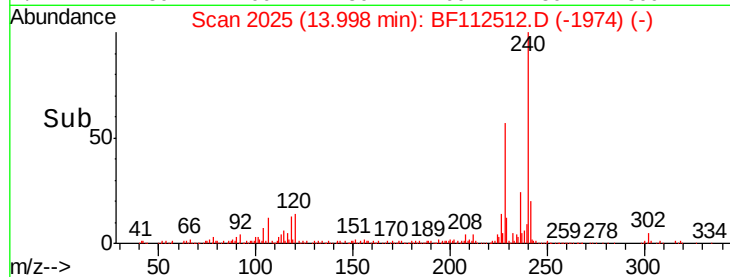
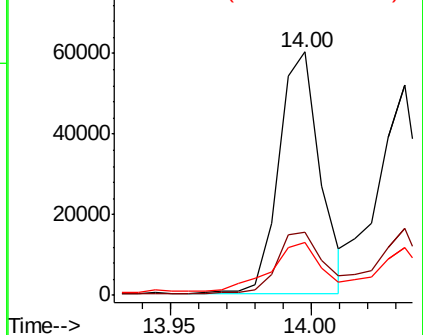


Abundance

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: 3.812 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

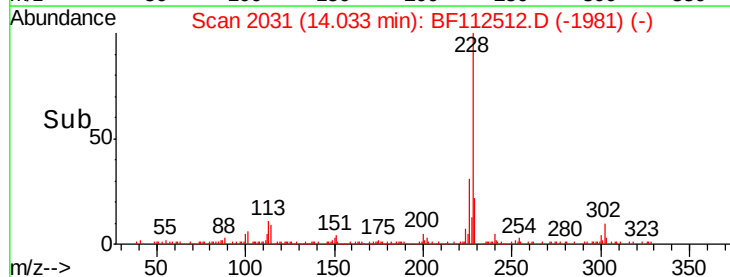
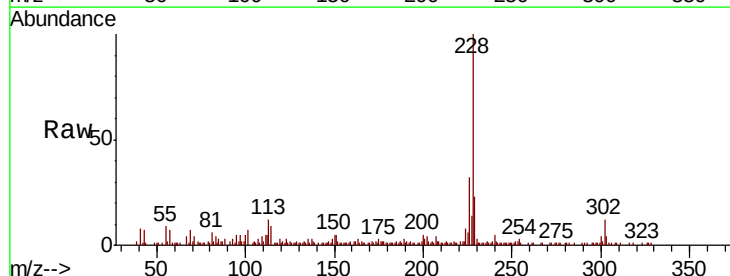
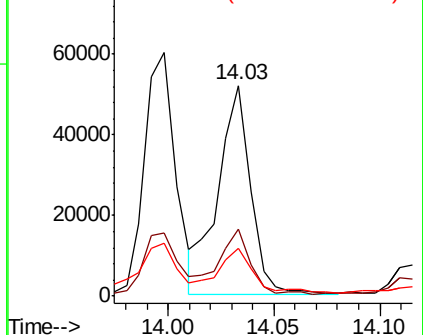
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 25.0  | 37.6  |
| 229     | 22.7  | 16.6  | 24.8  |

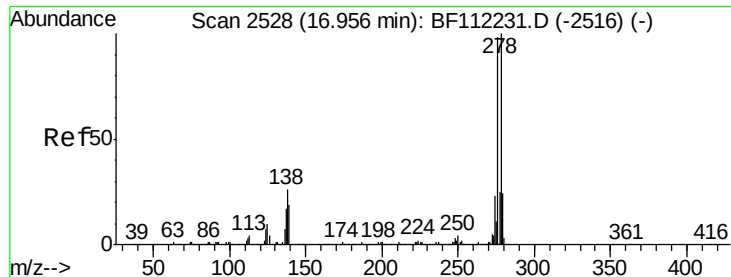
Abundance

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





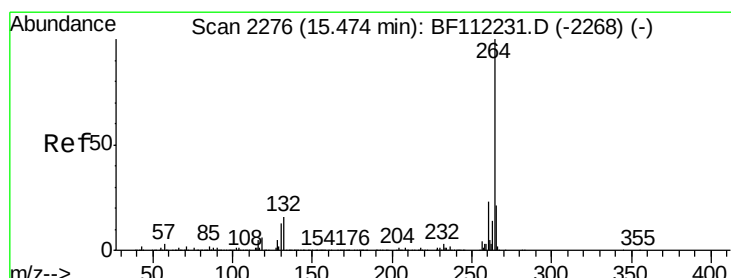
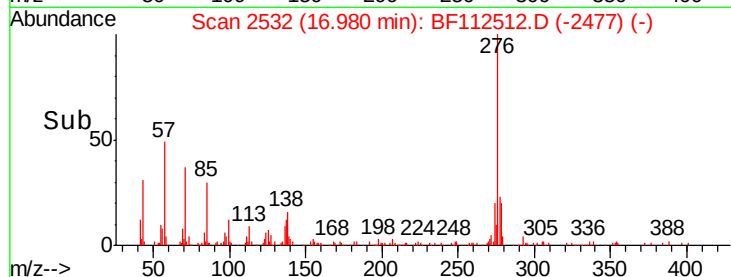
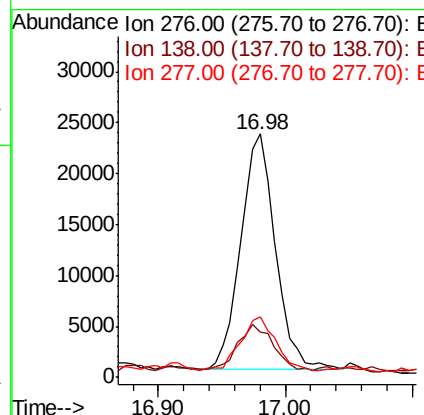
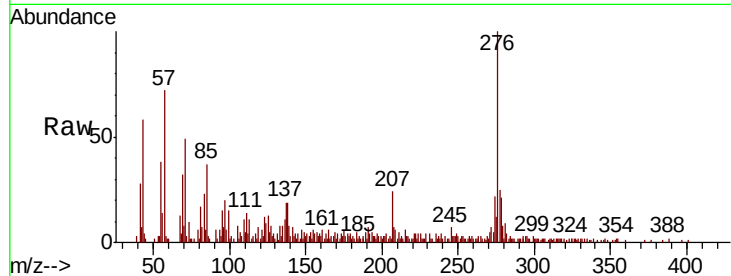
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 3.789 ng  
RT: 16.98 min Scan# 2532  
Delta R.T. 0.02 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
M-10-S

Tot Ion: 276 Resp: 43643  
Ion Ratio Lower Upper  
276 100  
138 21.4 22.6 34.0#  
277 23.6 20.3 30.5

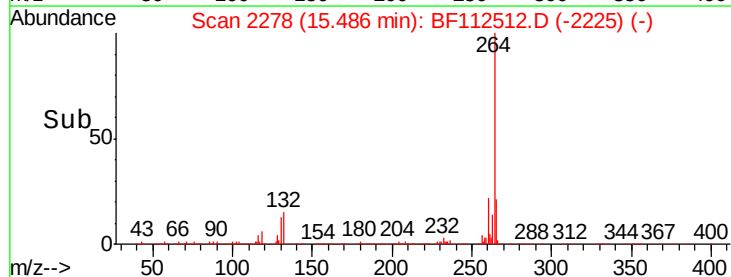
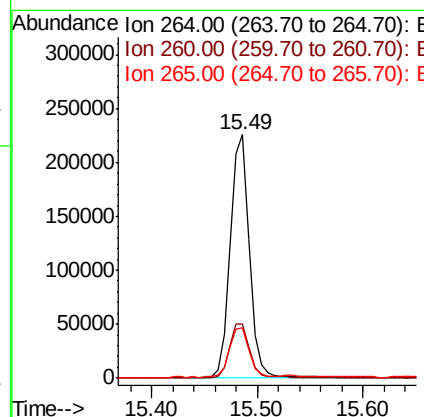
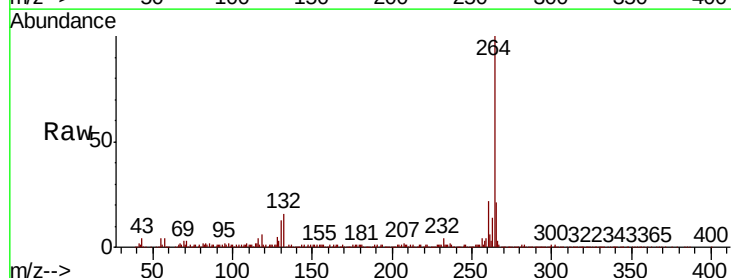
Manual Integrations  
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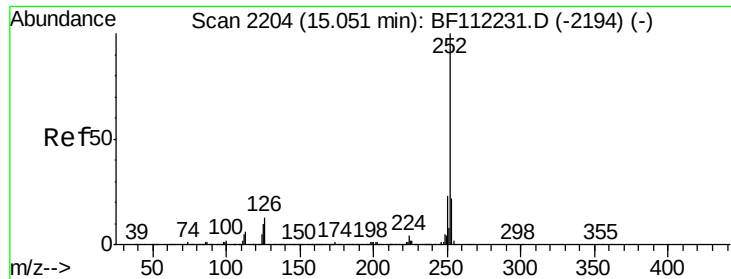
Sohil  
2/13/2019 11:12:10 AM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.49 min Scan# 2278  
Delta R.T. 0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Tgt Ion: 264 Resp: 278120  
Ion Ratio Lower Upper  
264 100  
260 22.1 18.2 27.2  
265 20.9 17.0 25.4





#88

Benzo(b)fluoranthene

Concen: 5.396 ng m

RT: 15.06 min Scan# 2205

Delta R.T. 0.01 min

Lab File: BF112512.D

Acq: 12 Feb 2019 15:45

Instrument :

BNA\_F

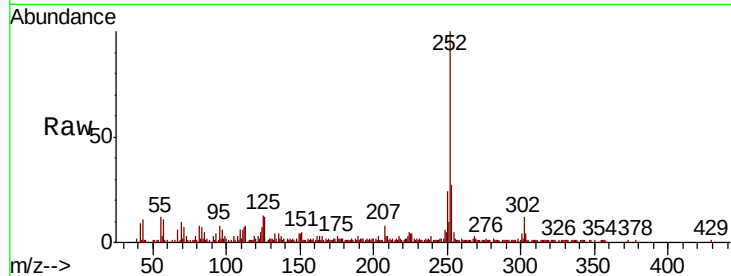
ClientSampled :

M-10-S

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 89755 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.7  | 18.0  | 27.0  |
| 125       | 13.0  | 8.7   | 13.1  |

Manual Integrations  
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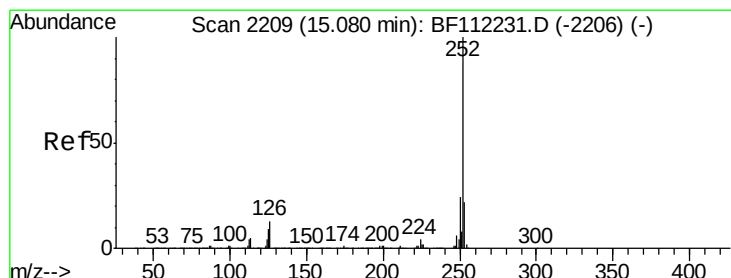
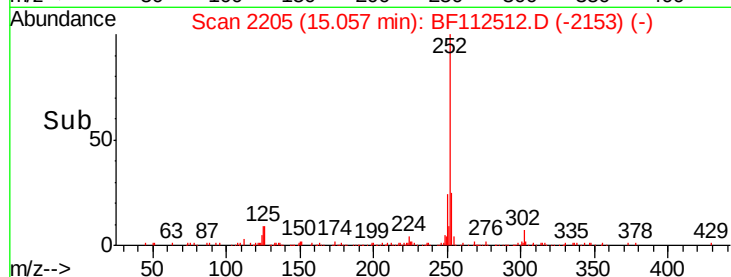
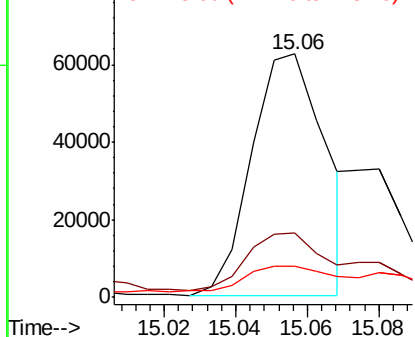


Abundance

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



#89

Benzo(k)fluoranthene

Concen: 2.213 ng m

RT: 15.08 min Scan# 2209

Delta R.T. 0.00 min

Lab File: BF112512.D

Acq: 12 Feb 2019 15:45

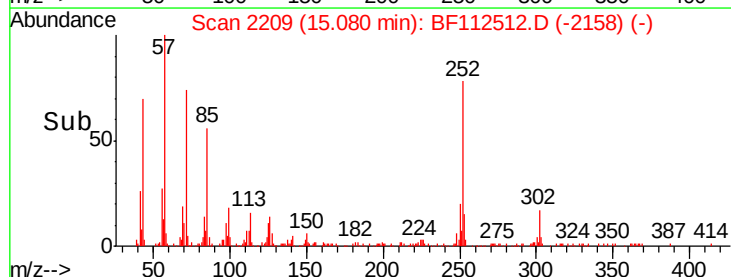
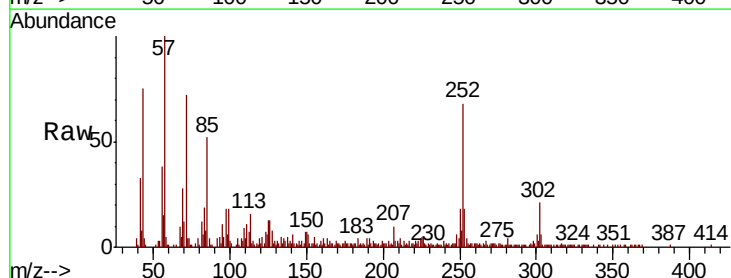
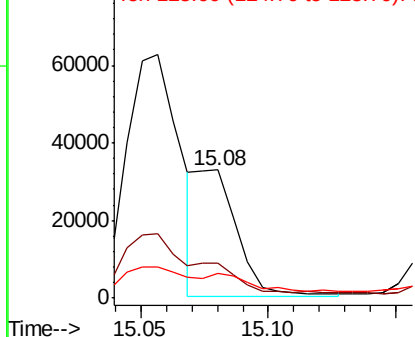
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 35262 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.3  | 18.0  | 27.0# |
| 125       | 18.9  | 9.1   | 13.7# |

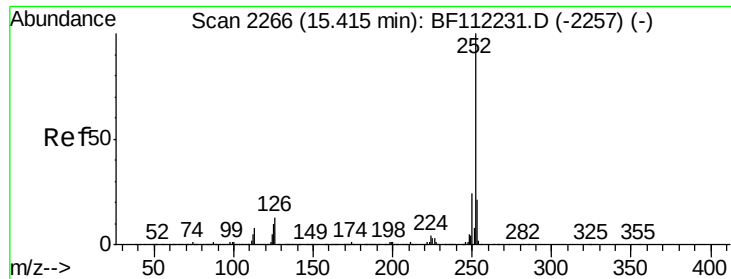
Abundance

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





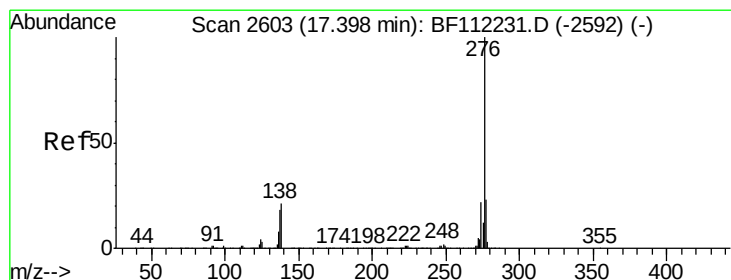
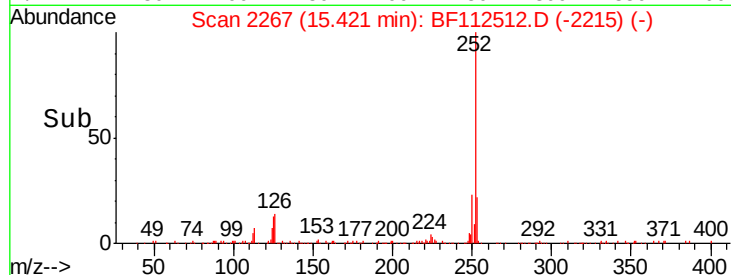
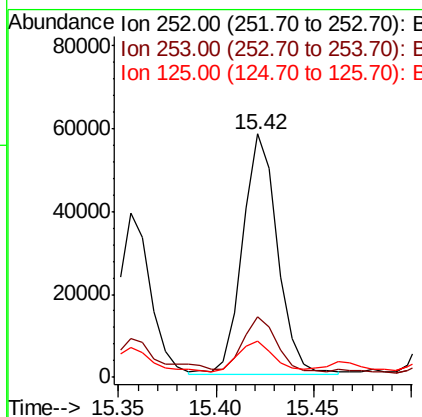
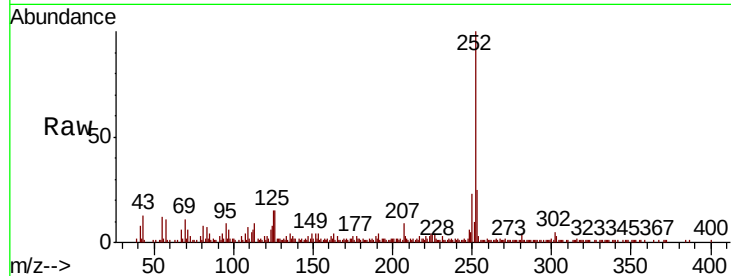
#90  
Benzo(a)pyrene  
Concen: 4.784 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. 0.01 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
M-10-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.5  | 26.3  |
| 125     | 15.1  | 9.0   | 13.4  |

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#92  
Benzo(g,h,i)perylene  
Concen: 3.742 ng  
RT: 17.43 min Scan# 2608  
Delta R.T. 0.03 min  
Lab File: BF112512.D  
Acq: 12 Feb 2019 15:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.1  | 19.4  | 29.0  |
| 138     | 27.0  | 19.1  | 28.7  |

