

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
 Data File : BF100781.D  
 Acq On : 21 Nov 2017 15:38  
 Operator : SJ/JU  
 Sample : I6340-10  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-2B

Manual Integrations  
 APPROVED

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 11/22/2017 5:04:12 PM

Quant Time: Nov 22 05:59:37 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 17 15:22:08 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 83733    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.15  | 136  | 327871   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.91  | 164  | 149882   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 279350   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 14.03 | 240  | 173309   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.51 | 264  | 186826   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 473064   | 90.56  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 585470   | 90.89  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 335215   | 67.59  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 143029   | 93.65  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.23  | 172  | 521281   | 52.96  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.97 | 244  | 369148   | 48.94  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.51  | 94   | 13636    | 2.017  | ng    | 97       |
| 49) Dimethylphthalate          | 9.62  | 163  | 186609   | 16.307 | ng    | 99       |
| 70) Phenanthrene               | 11.42 | 178  | 42370    | 2.881  | ng    | 99       |
| 74) Fluoranthene               | 12.60 | 202  | 90132    | 5.782  | ng    | 96       |
| 77) Pyrene                     | 12.83 | 202  | 70599    | 5.715  | ng    | 98       |
| 80) Benzo(a)anthracene         | 14.02 | 228  | 23982    | 2.298  | ng    | 97       |
| 82) Chrysene                   | 14.06 | 228  | 34708    | 3.434  | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 14.00 | 149  | 134919   | 20.361 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.98 | 276  | 21493    | 2.629  | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 15.07 | 252  | 43342m   | 3.916  | ng    |          |
| 89) Benzo(a)pyrene             | 15.44 | 252  | 25366    | 2.585  | ng    | # 91     |
| 91) Benzo(a,h,i)perylene       | 17.43 | 276  | 20826    | 2.651  | ng    | 95       |

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

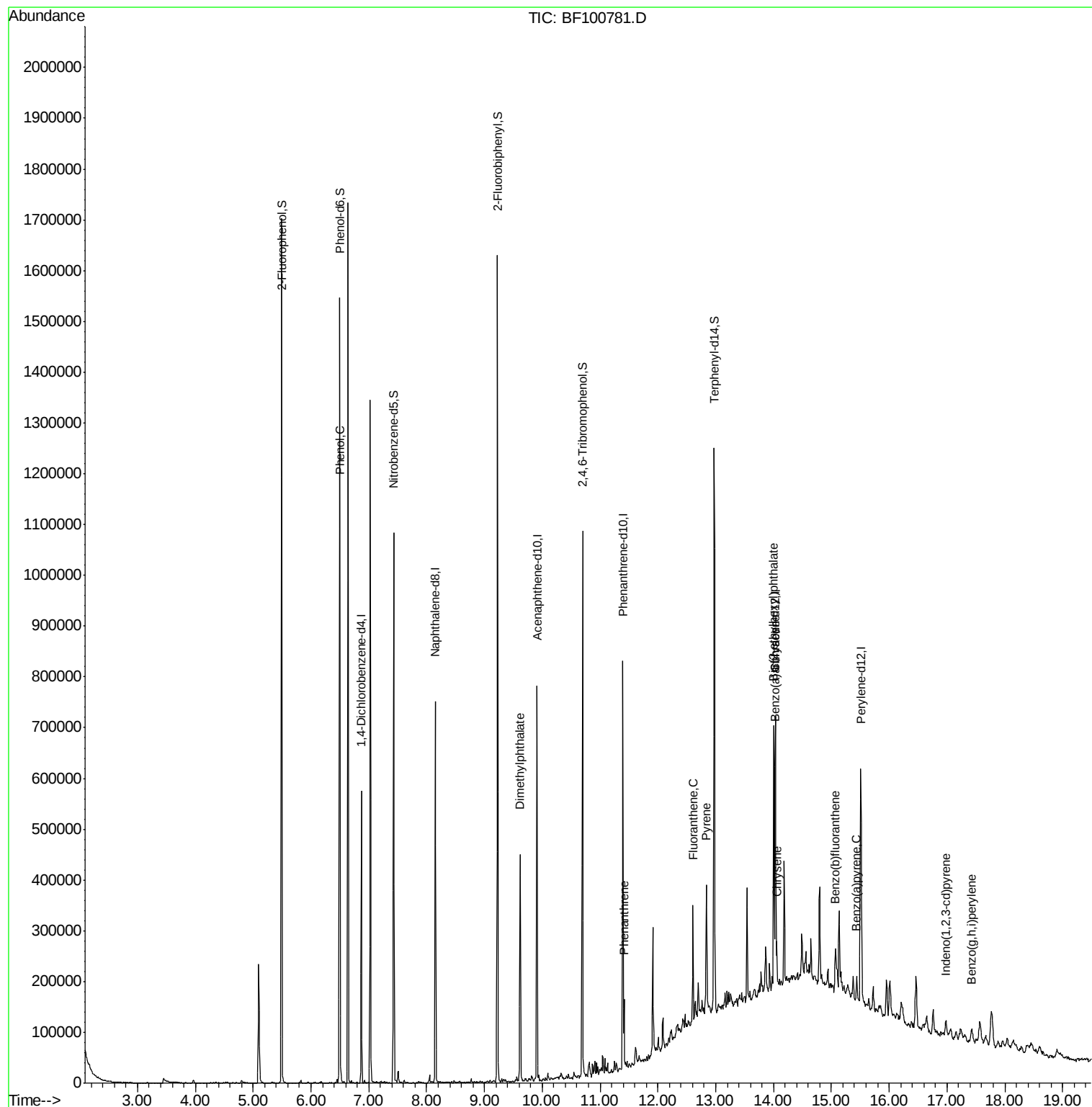
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
Data File : BF100781.D  
Acq On : 21 Nov 2017 15:38  
Operator : SJ/JU  
Sample : I6340-10  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

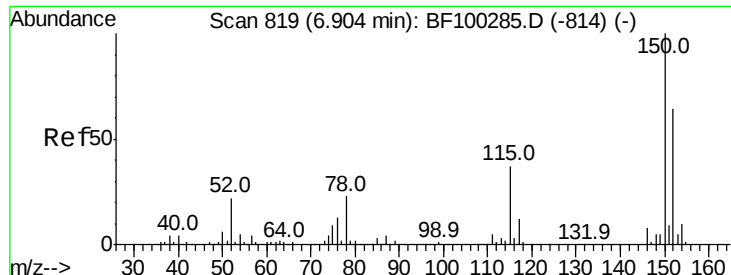
Instrument :  
BNA\_F  
ClientSampleId :  
HL-2B

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Quant Time: Nov 22 05:59:37 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 17 15:22:08 2017  
Response via : Initial Calibration





#1

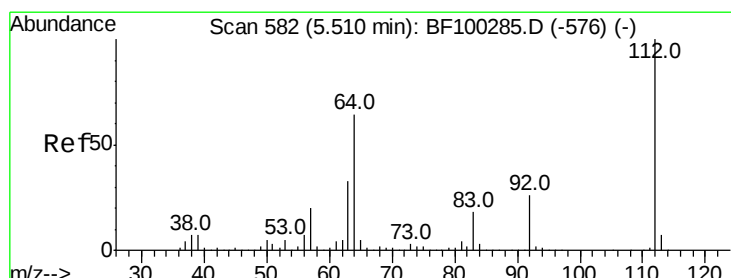
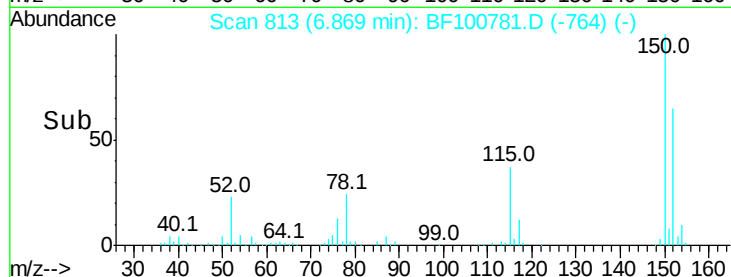
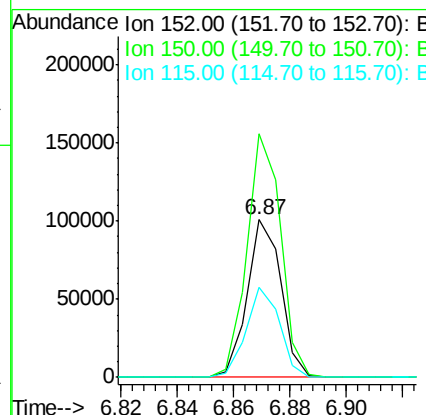
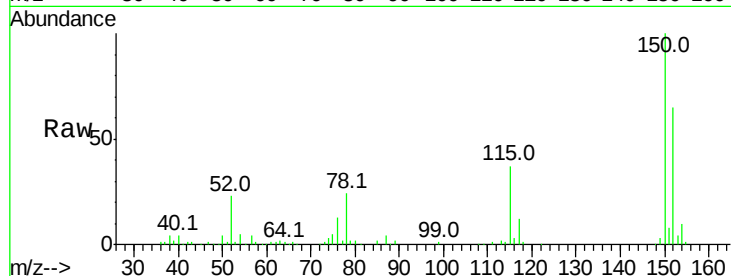
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampled :  
HL-2B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.7 | 124.6 | 186.8 |
| 115     | 57.3  | 50.1  | 75.1  |

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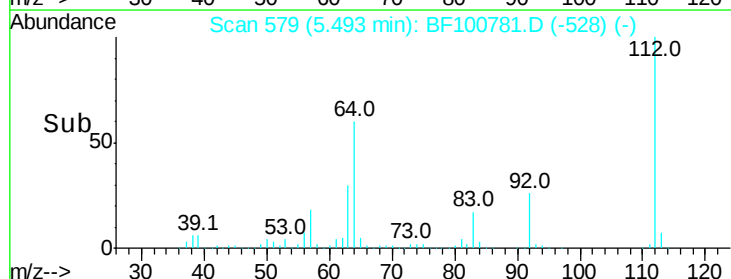
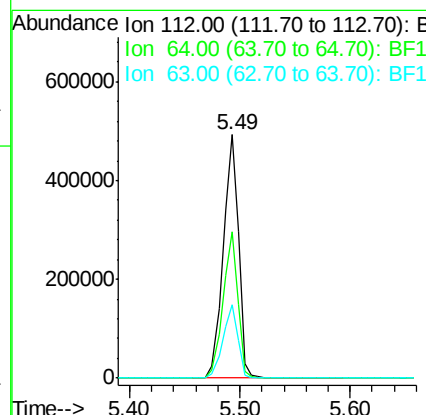
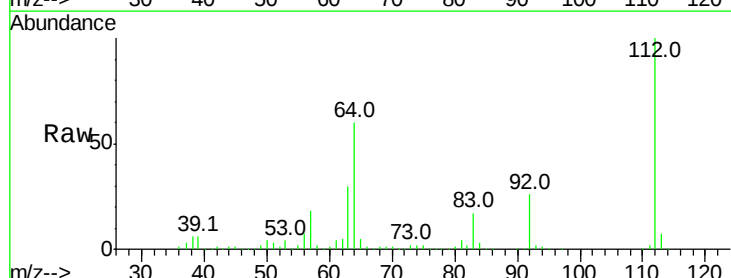
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#5

2-Fluorophenol  
Concen: 90.564 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.00 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.0  | 47.9  | 71.9  |
| 63      | 30.1  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 90.893 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

Instrument :

BNA\_F

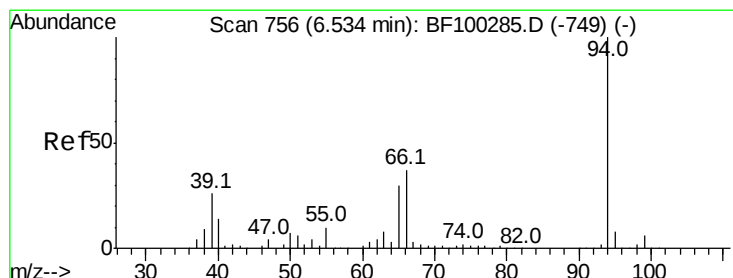
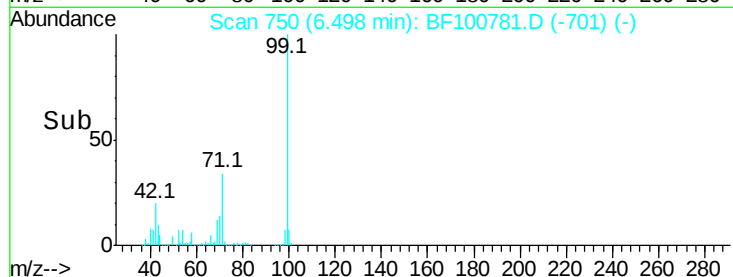
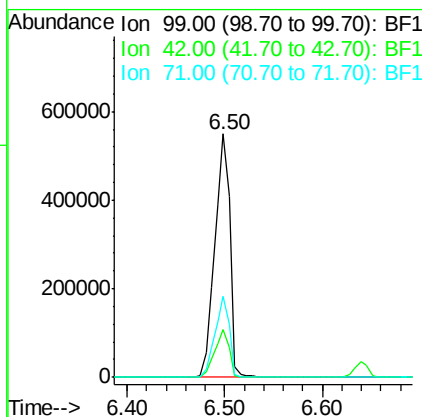
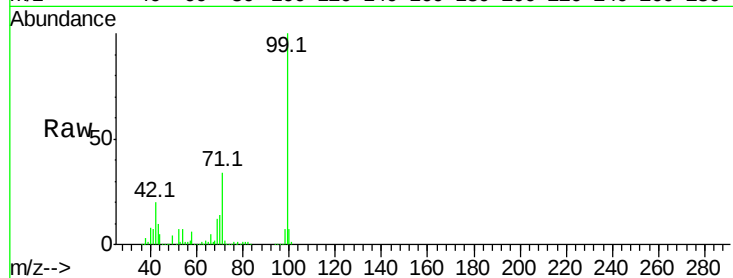
ClientSampled :

HL-2B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 585470 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.5  | 14.5  | 21.7   |
| 71        | 33.5  | 25.4  | 38.0   |

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#10

Phenol

Concen: 2.017 ng

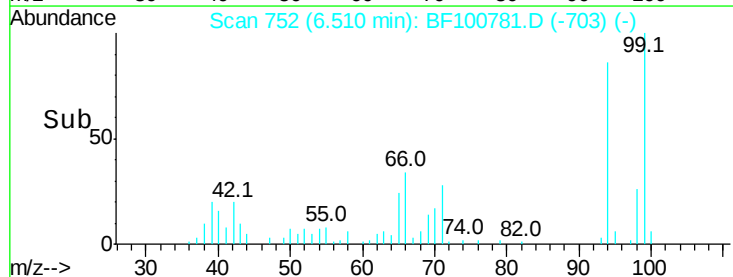
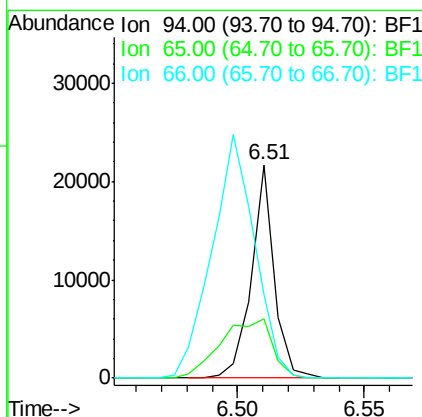
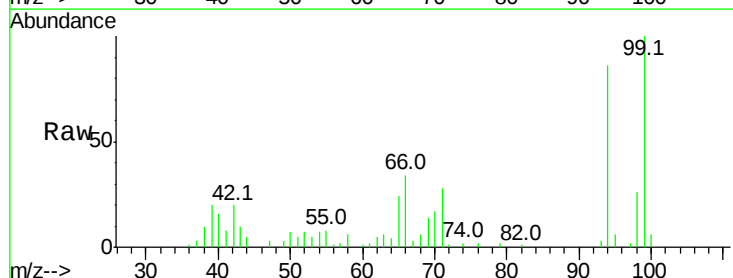
RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 13636 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 27.8  | 7.9   | 47.9  |
| 66        | 39.2  | 16.2  | 56.2  |





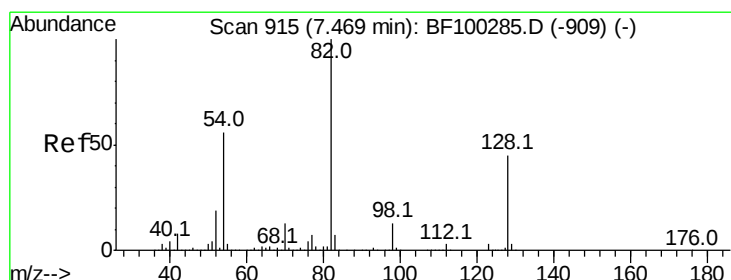
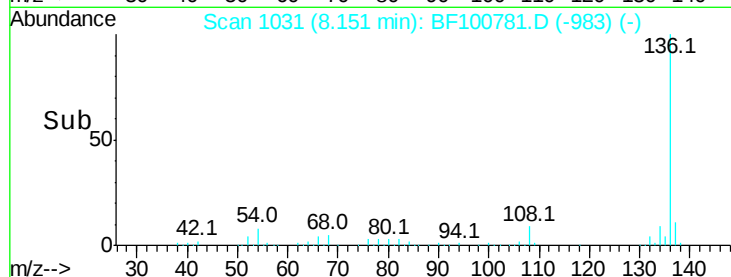
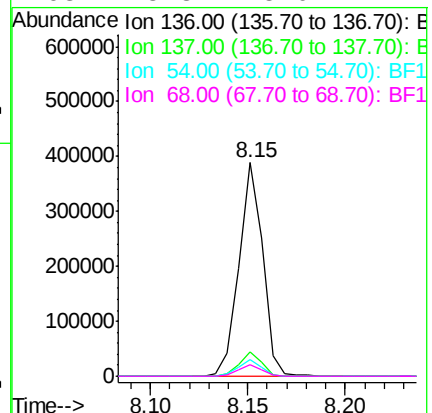
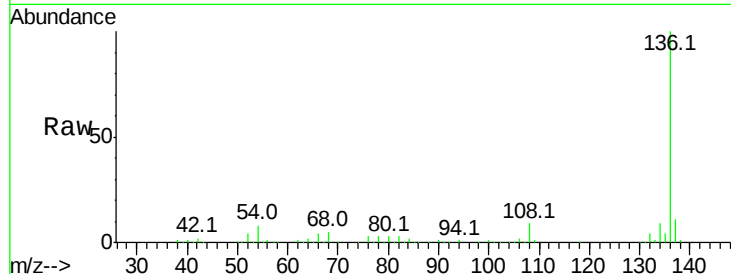
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.02 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampled :  
HL-2B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.2  | 8.9  | 13.3  |       |
| 54      | 7.8   | 6.6  | 9.8   |       |
| 68      | 5.3   | 5.0  | 7.4   |       |

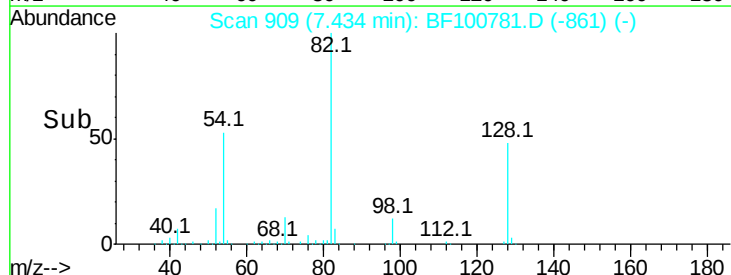
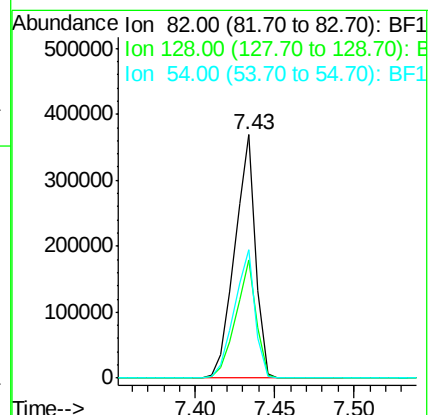
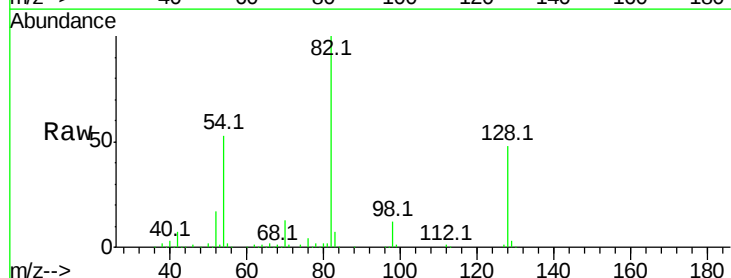
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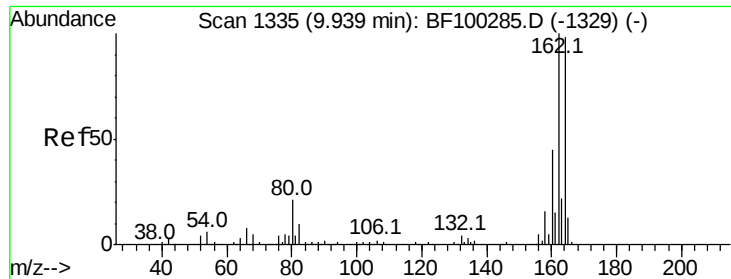
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#23  
Nitrobenzene-d5  
Concen: 67.594 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.02 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 48.4  | 36.1 | 54.1  |       |
| 54      | 52.9  | 41.4 | 62.2  |       |





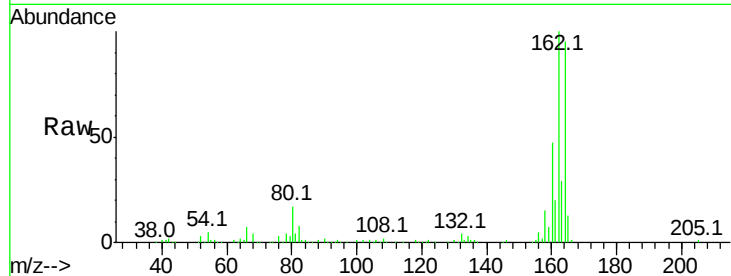
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.01 min  
 Lab File: BF100781.D  
 Acq: 21 Nov 2017 15:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-2B

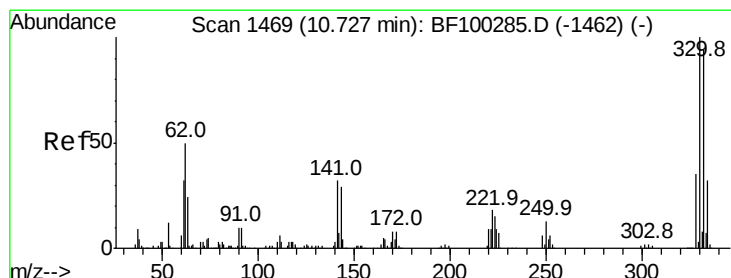
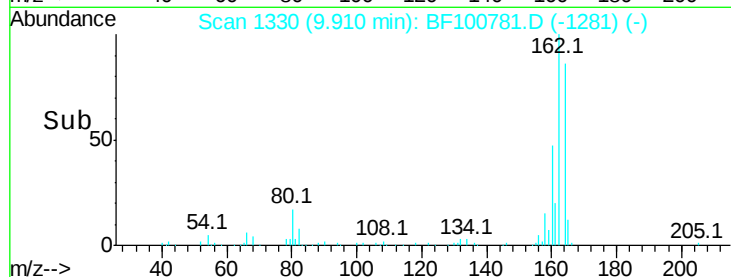
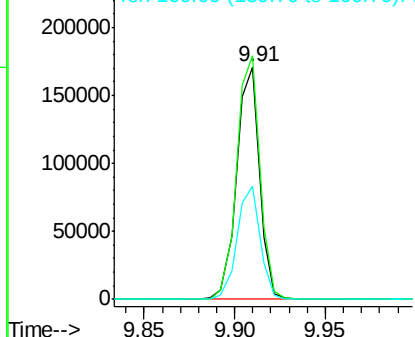
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.8 | 86.1 | 129.1 |       |
| 160     | 48.9  | 38.3 | 57.5  |       |

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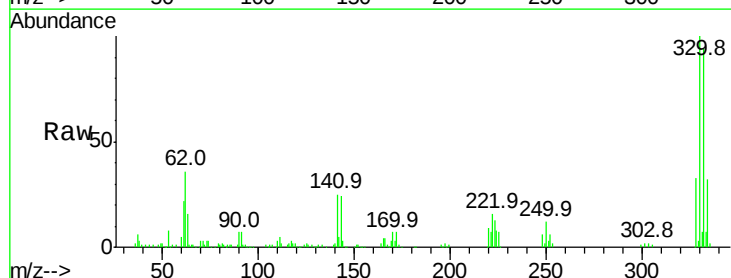


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

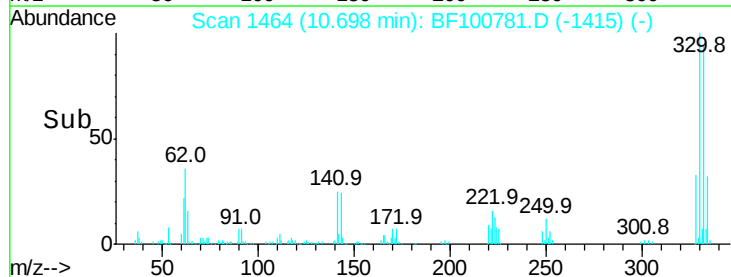
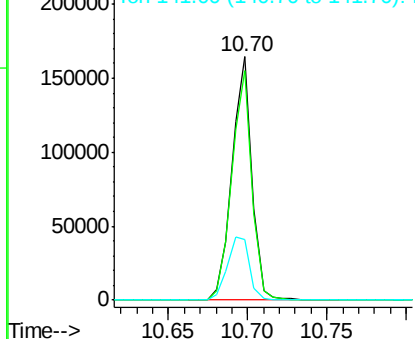


#41  
 2,4,6-Tribromophenol  
 Concen: 93.648 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.01 min  
 Lab File: BF100781.D  
 Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.4  | 77.0 | 115.6 |       |
| 141     | 29.1  | 29.9 | 44.9# |       |



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





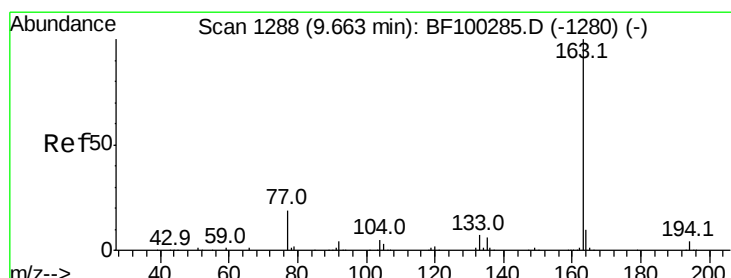
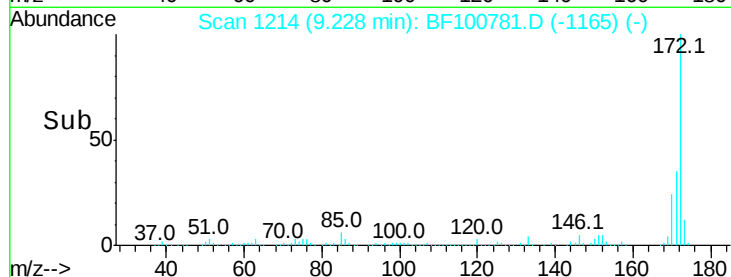
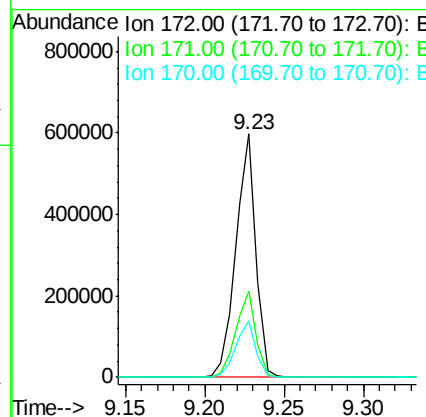
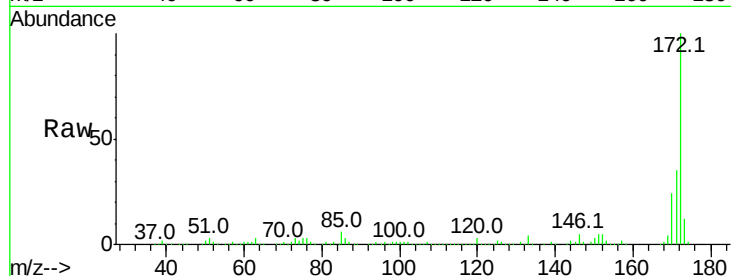
#44  
2-Fluorobiphenyl  
Concen: 52.959 ng  
RT: 9.23 min Scan# 1214  
Delta R.T. -0.01 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 521281 |       |       |
| 171     | 35.2  |        | 29.7  | 44.5  |
| 170     | 23.5  |        | 19.6  | 29.4  |

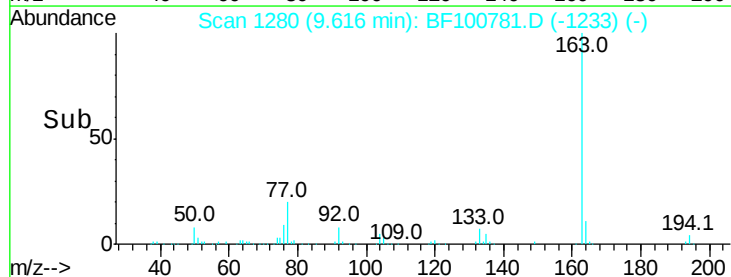
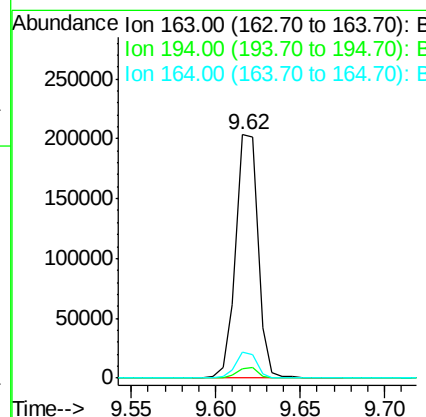
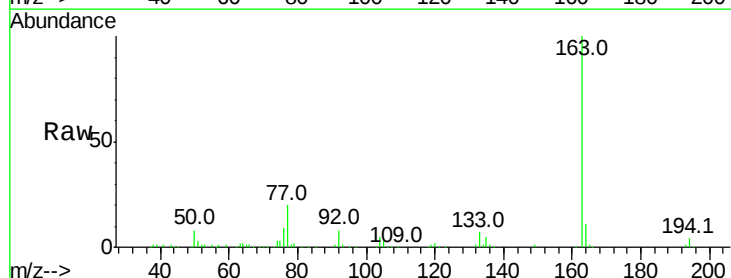
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#49  
Dimethylphthalate  
Concen: 16.307 ng  
RT: 9.62 min Scan# 1280  
Delta R.T. -0.02 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 186609 |       |       |
| 194     | 3.8   |        | 2.7   | 4.1   |
| 164     | 10.6  |        | 8.2   | 12.2  |





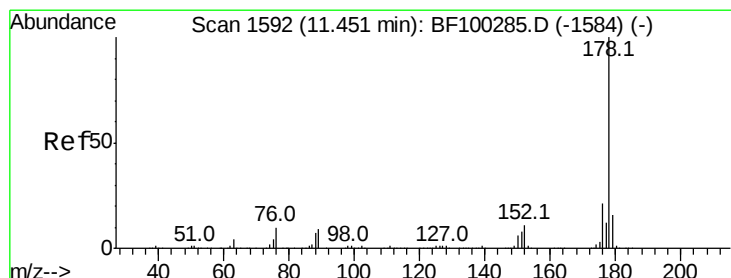
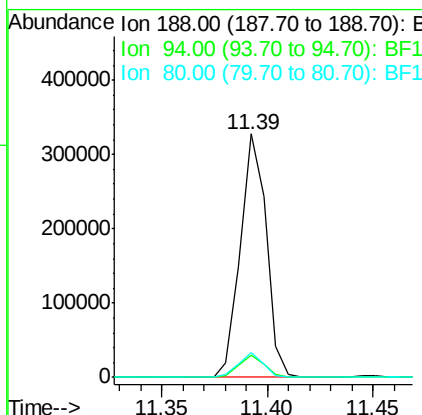
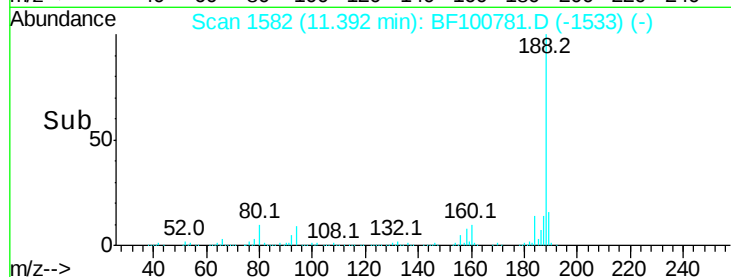
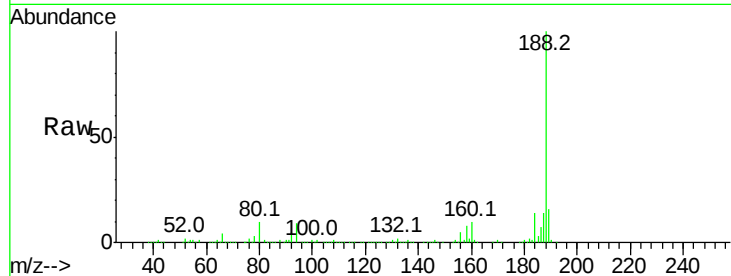
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. -0.01 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampled :  
HL-2B

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.3   | 8.5        | 12.7  |
| 80      | 9.9   | 9.2        | 13.8  |

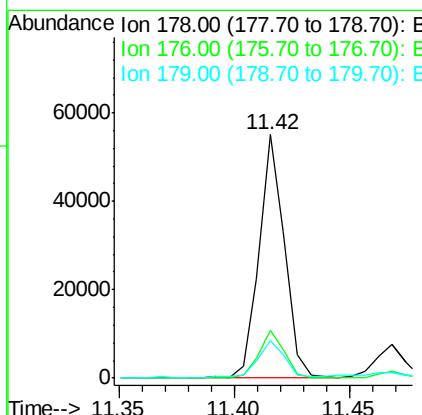
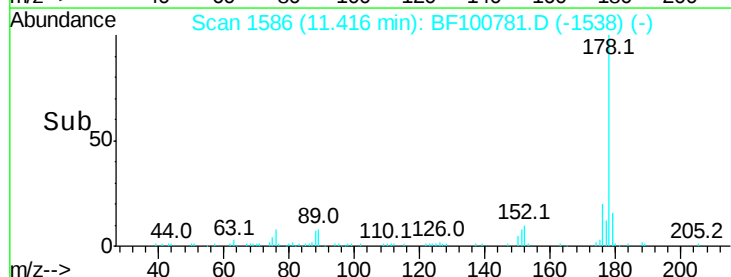
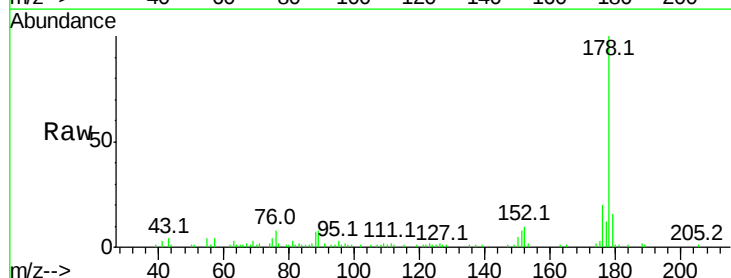
Manual Integrations  
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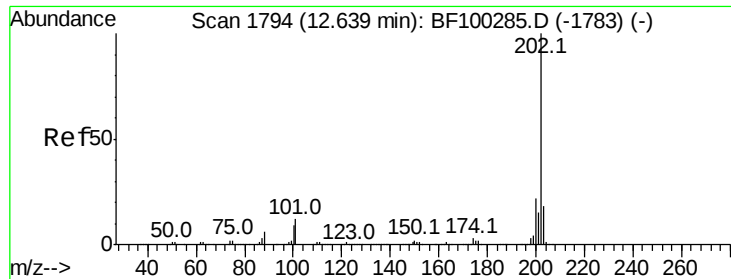
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#70  
Phenanthrene  
Concen: 2.881 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.02 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.6  | 15.8       | 23.8  |
| 179     | 15.5  | 13.0       | 19.6  |





#74

Fluoranthene

Concen: 5.782 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.02 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

Instrument :

BNA\_F

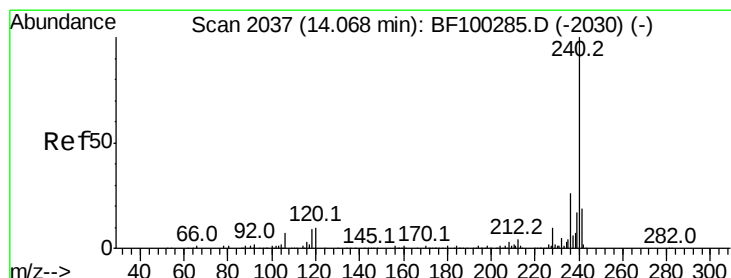
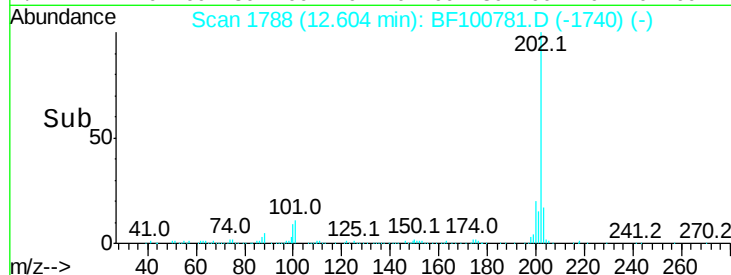
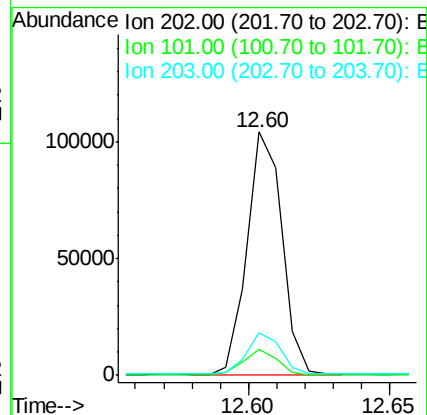
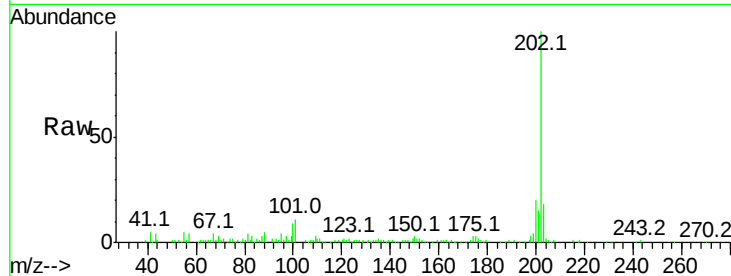
ClientSampled :

HL-2B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 90132 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.6  | 0.0   | 34.1  |
| 203       | 17.7  | 0.0   | 38.1  |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

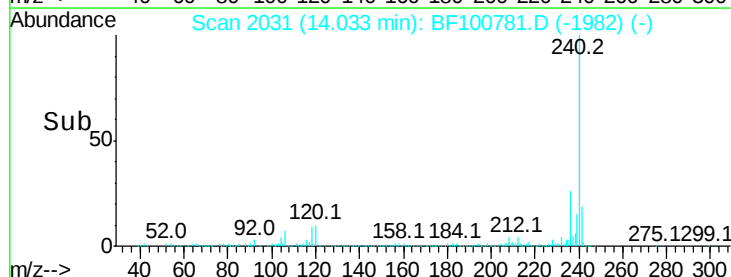
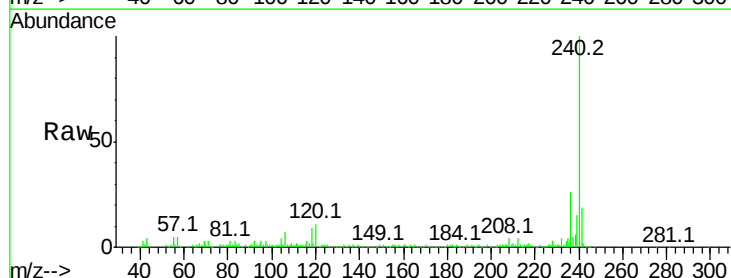
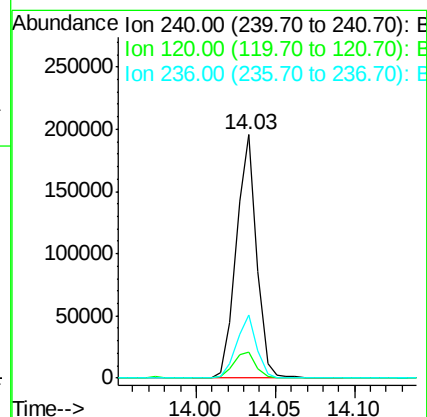
RT: 14.03 min Scan# 2031

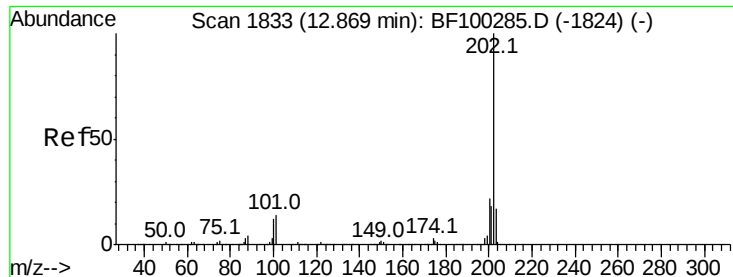
Delta R.T. -0.01 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 173309 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.6  | 9.5   | 14.3   |
| 236       | 25.7  | 20.7  | 31.1   |





#77

Pvrene

Concen: 5.715 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

Instrument :

BNA\_F

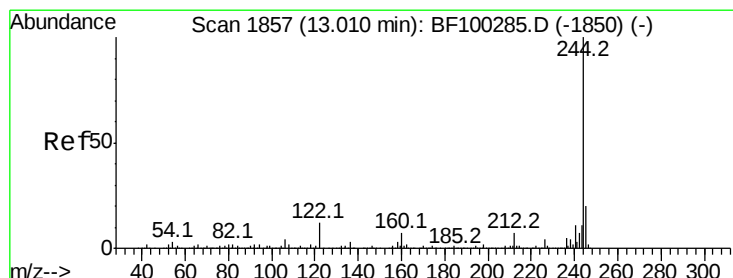
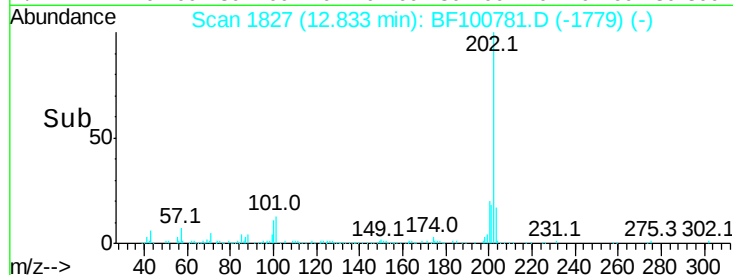
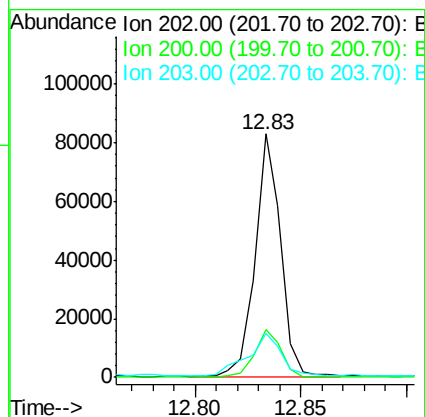
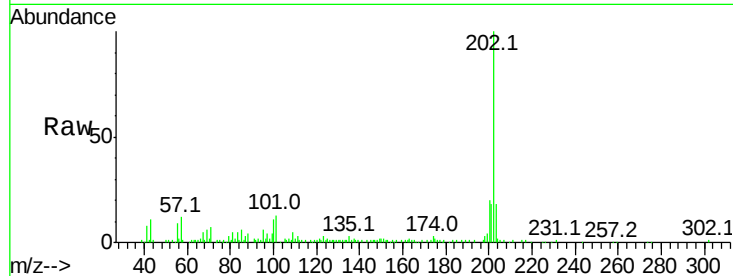
ClientSampled :

HL-2B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 70599 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 19.8  | 17.4  | 26.2  |
| 203       | 18.0  | 14.3  | 21.5  |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 48.941 ng

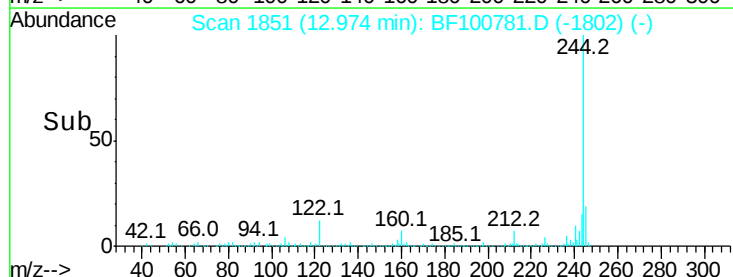
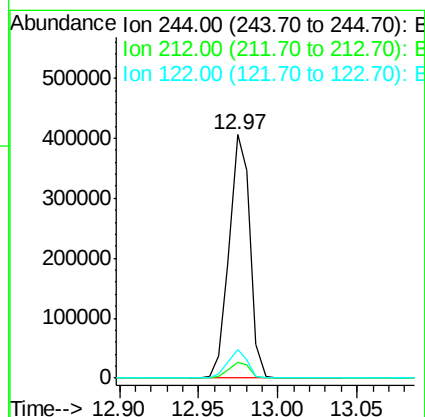
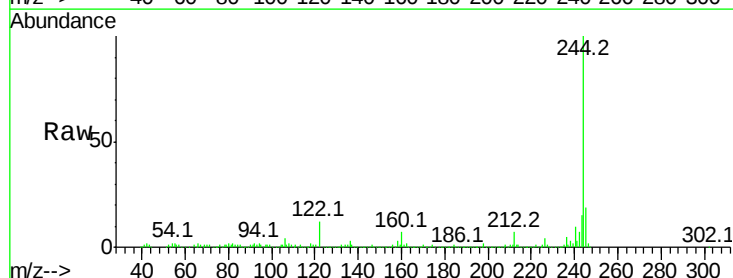
RT: 12.97 min Scan# 1851

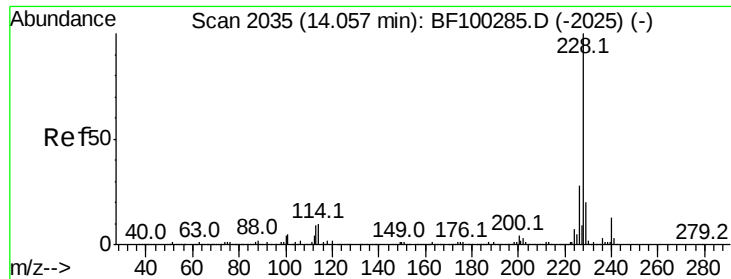
Delta R.T. -0.01 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 369148 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.7   | 5.4   | 8.0    |
| 122       | 11.9  | 11.0  | 16.4   |





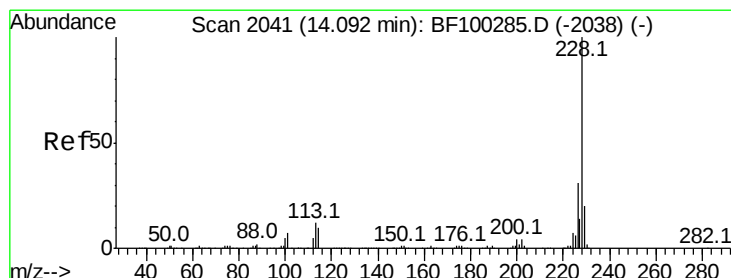
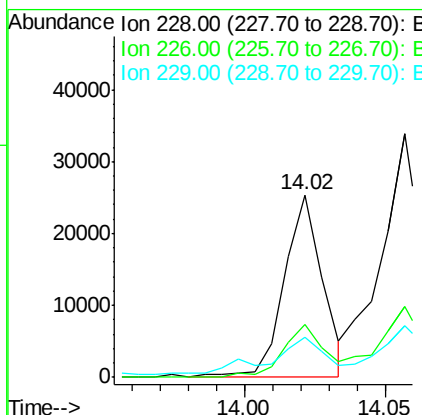
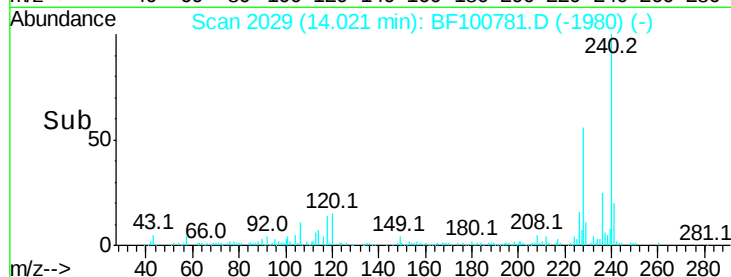
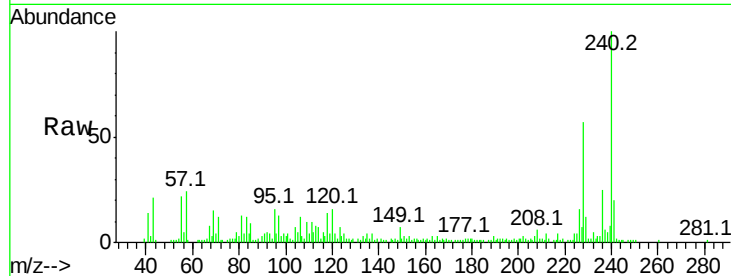
#80  
Benzo(a)anthracene  
Concen: 2.298 ng  
RT: 14.02 min Scan# 2029  
Delta R.T. -0.01 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampled :  
HL-2B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.6  | 33.8  |
| 229     | 21.7  | 15.8  | 23.6  |

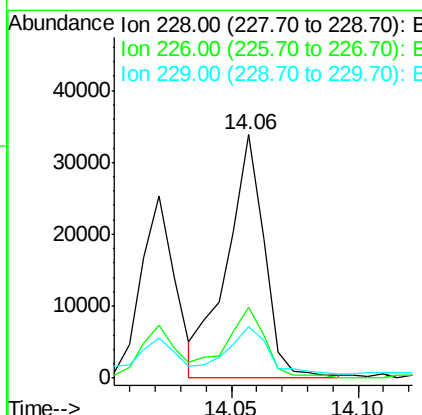
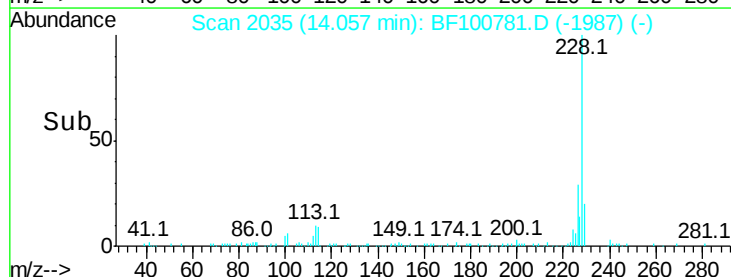
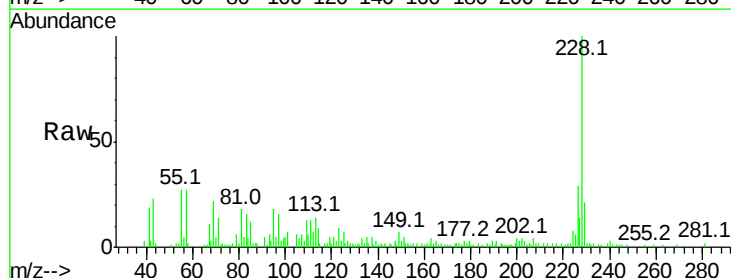
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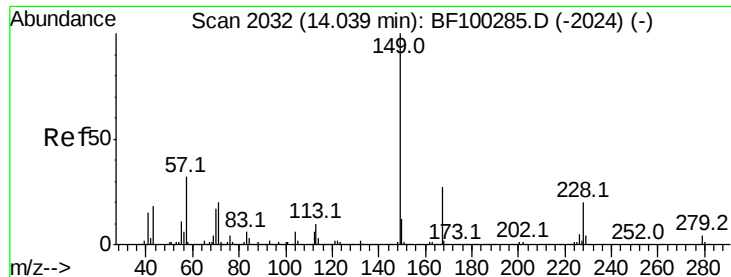
Sohil  
11/22/2017 5:04:12 PM



#82  
Chrysene  
Concen: 3.434 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.02 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 25.0  | 37.6  |
| 229     | 21.2  | 16.2  | 24.4  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 20.361 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

Instrument :

BNA\_F

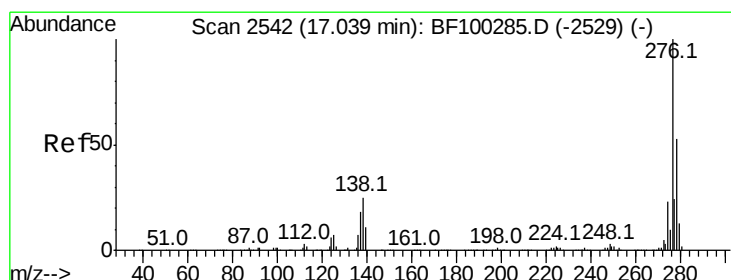
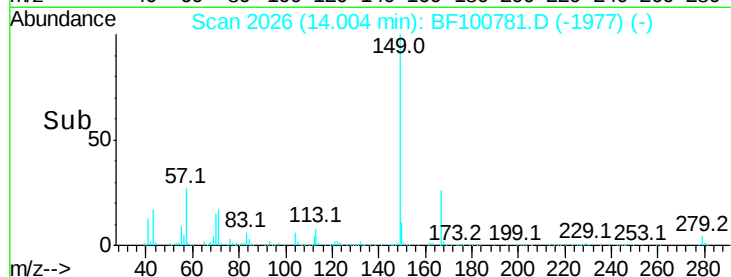
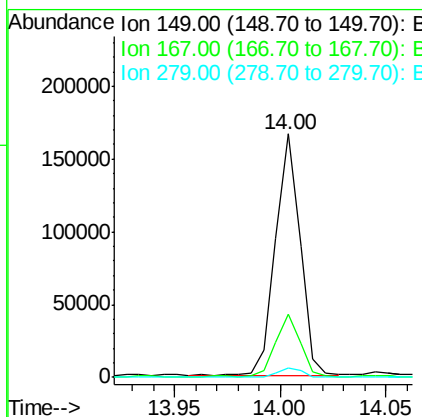
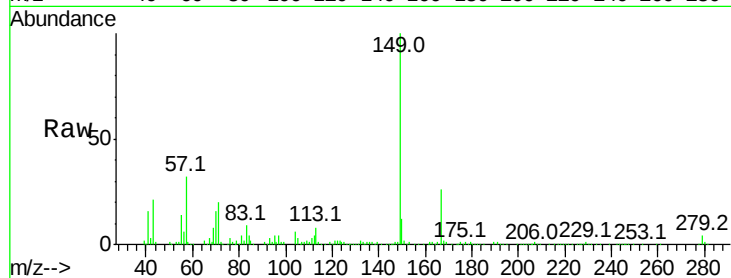
ClientSampleId :

HL-2B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 134919 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 26.0  | 21.3  | 31.9   |
| 279       | 3.8   | 3.0   | 4.4    |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.629 ng

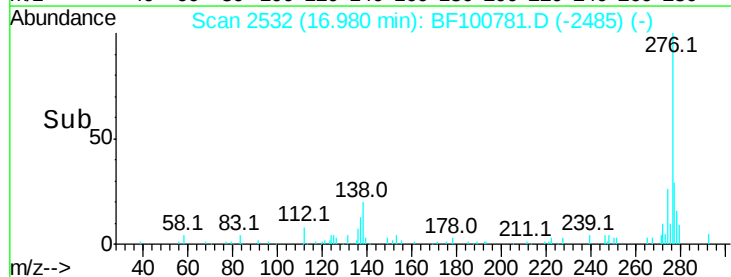
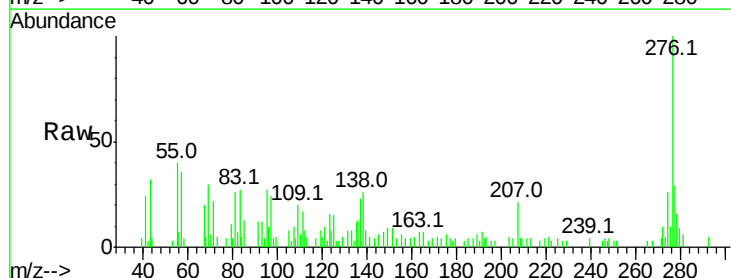
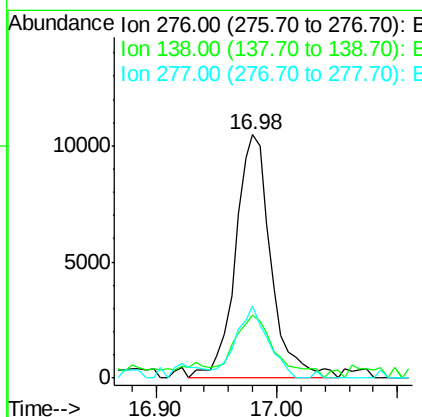
RT: 16.98 min Scan# 2532

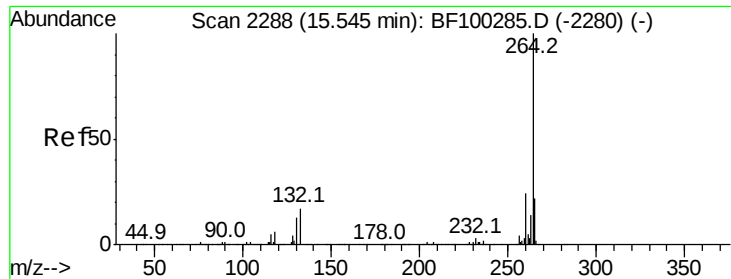
Delta R.T. -0.02 min

Lab File: BF100781.D

Acq: 21 Nov 2017 15:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 21493 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 29.9  | 25.0  | 37.6  |
| 277       | 26.9  | 20.1  | 30.1  |





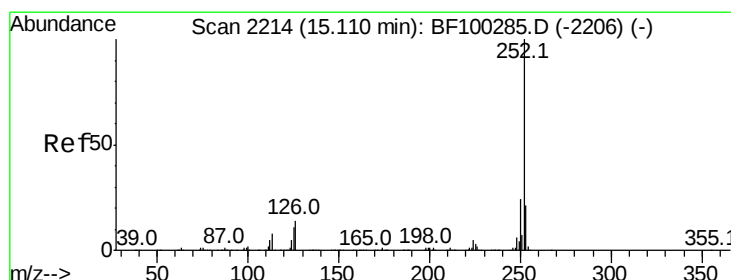
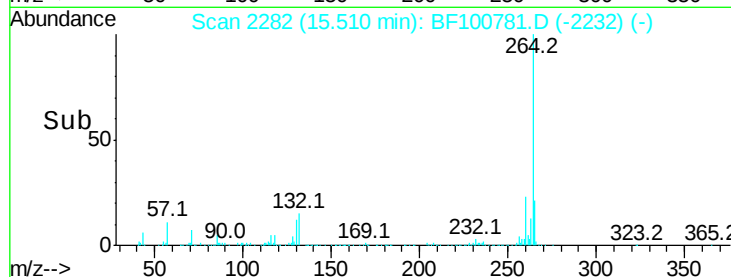
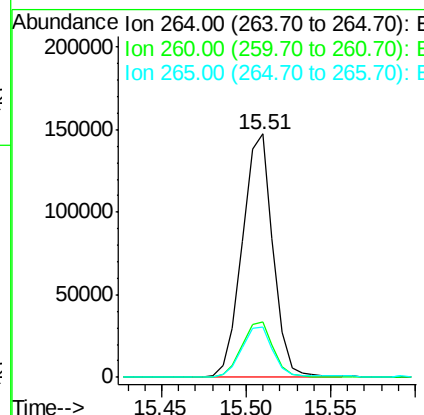
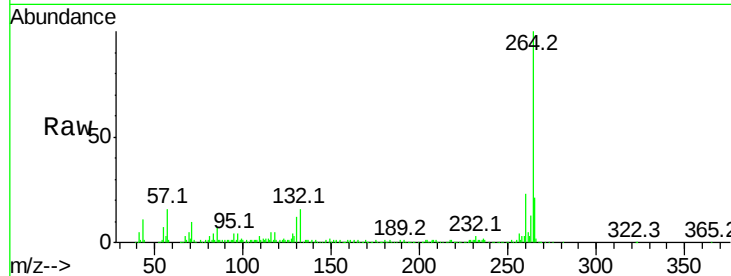
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2282  
Delta R.T. -0.01 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.2  | 28.8  |
| 265     | 20.6  | 17.5  | 26.3  |

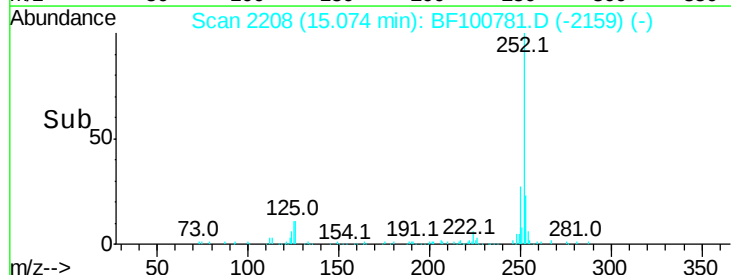
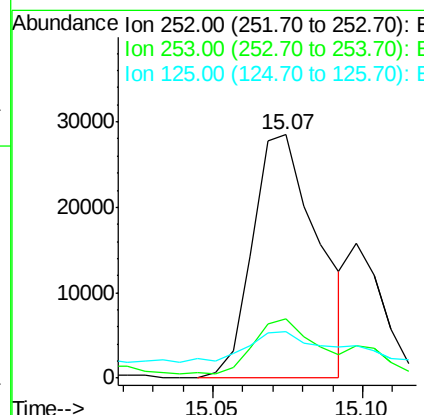
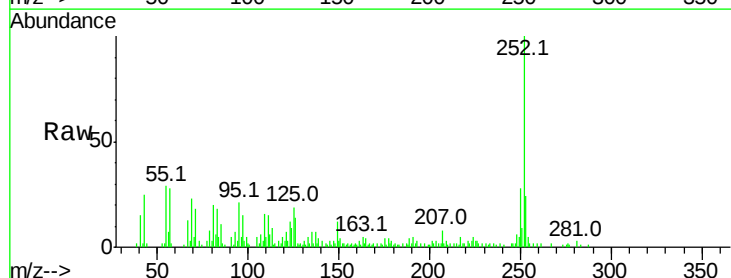
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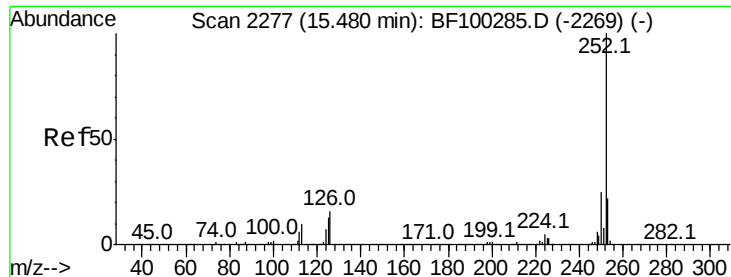
Sohil  
11/22/2017 5:04:12 PM



#87  
Benzo(b)fluoranthene  
Concen: 3.916 ng m  
RT: 15.07 min Scan# 2208  
Delta R.T. -0.01 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.0  | 25.6  |
| 125     | 19.1  | 9.0   | 13.6  |





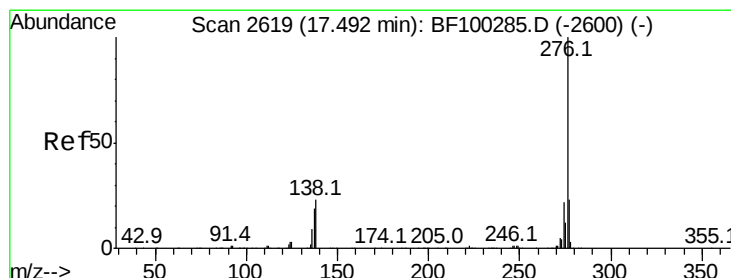
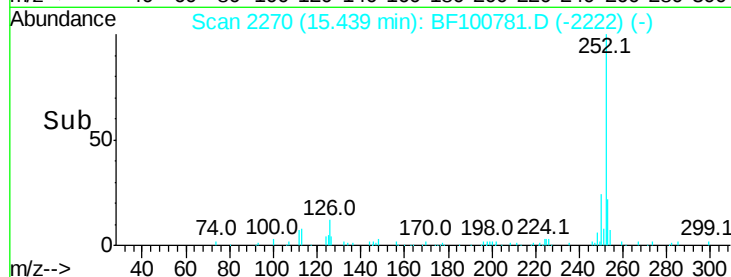
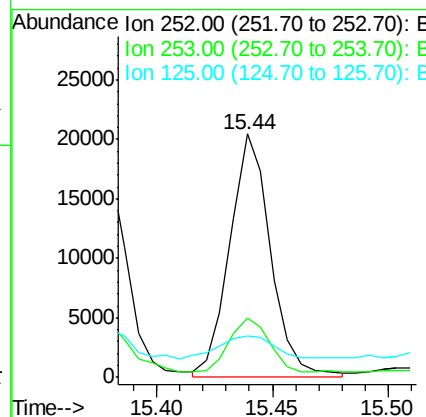
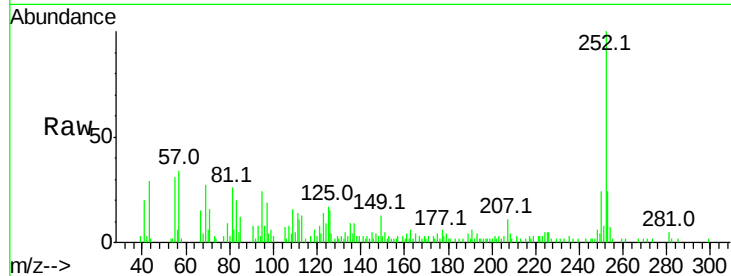
#89  
Benzo(a)pyrene  
Concen: 2.585 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. -0.02 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.1  | 25.7  |
| 125     | 17.2  | 9.8   | 14.6  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 2.651 ng  
RT: 17.43 min Scan# 2608  
Delta R.T. -0.03 min  
Lab File: BF100781.D  
Acq: 21 Nov 2017 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.6  | 17.9  | 26.9  |
| 138     | 25.3  | 21.8  | 32.8  |

