

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110917\  
 Data File : BF100357.D  
 Acq On : 9 Nov 2017 22:50  
 Operator : SJ/JU  
 Sample : I6379-07 50X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-(1-4)

Manual Integrations  
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Sohil  
 11/10/2017 1:15:22 PM

Quant Time: Nov 10 02:58:02 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 09 16:04:38 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 163585   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.18  | 136  | 657109   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.94  | 164  | 304733   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.42 | 188  | 548160   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.06 | 240  | 332508   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.54 | 264  | 355973   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 18531    | 1.82  | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 23658    | 1.88  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 12692    | 1.28  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.72 | 330  | 5381     | 1.73  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.25  | 172  | 29385    | 1.47  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.00 | 244  | 22692    | 1.57  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 70) Phenanthrene            | 11.45 | 178  | 172686   | 5.983 | ng    | 98       |
| 74) Fluoranthene            | 12.63 | 202  | 219654   | 7.181 | ng    | 96       |
| 77) Pyrene                  | 12.86 | 202  | 183029   | 7.722 | ng    | 97       |
| 80) Benzo(a)anthracene      | 14.05 | 228  | 73254    | 3.658 | ng    | 95       |
| 82) Chrysene                | 14.09 | 228  | 68585    | 3.537 | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.02 | 276  | 34949    | 2.228 | ng    | # 92     |
| 87) Benzo(b)fluoranthene    | 15.10 | 252  | 78874m   | 3.740 | ng    |          |
| 89) Benzo(a)pyrene          | 15.47 | 252  | 57722    | 3.087 | ng    | 97       |

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

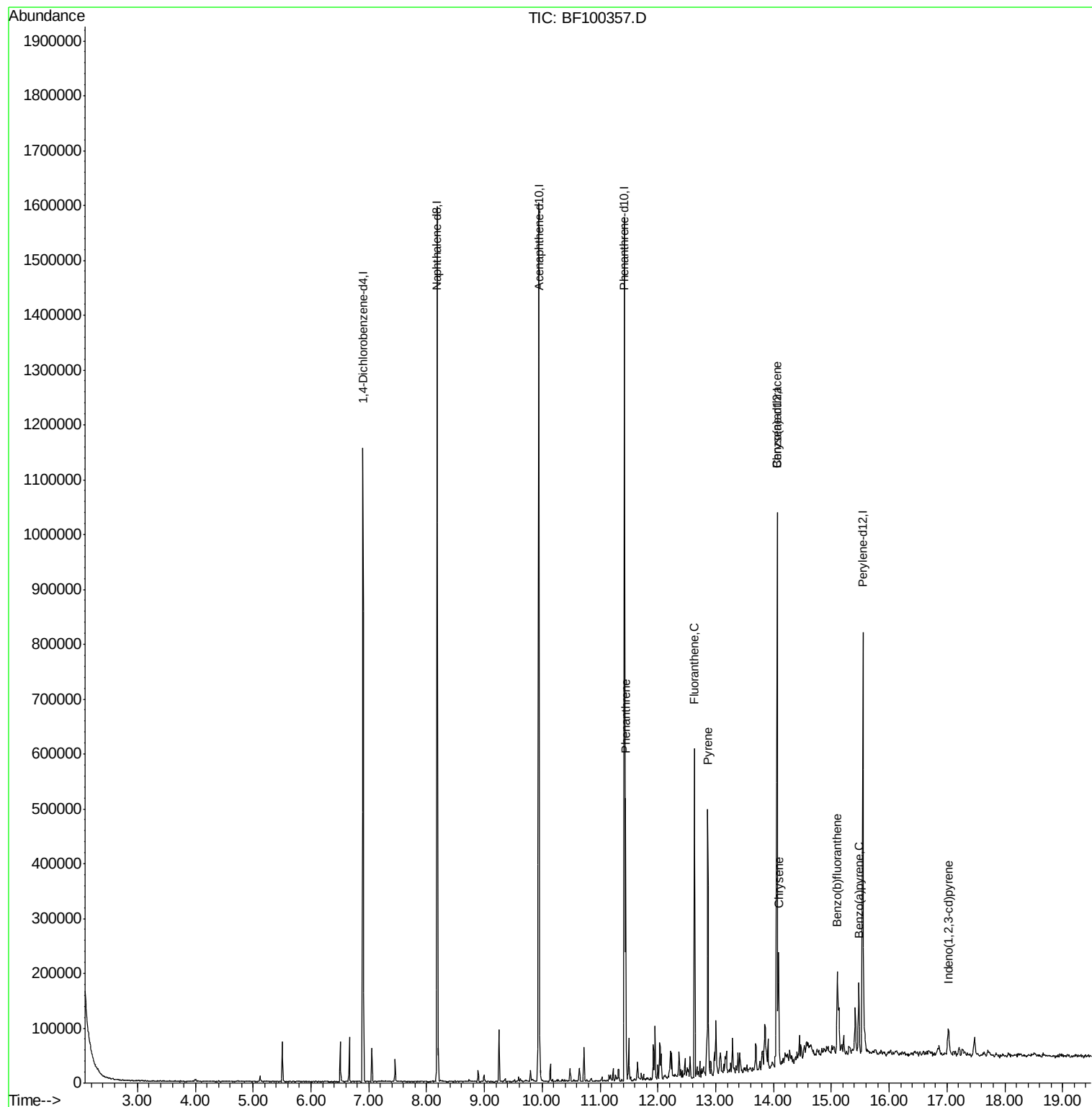
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF110917\  
Data File : BF100357.D  
Acq On : 9 Nov 2017 22:50  
Operator : SJ/JU  
Sample : I6379-07 50X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

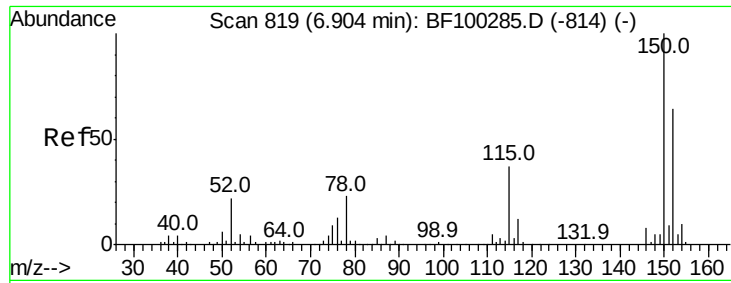
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-(1-4)

Manual Integrations  
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Quant Time: Nov 10 02:58:02 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 09 16:04:38 2017  
Response via : Initial Calibration





#1

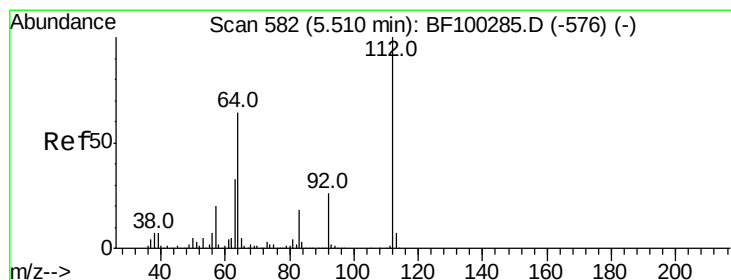
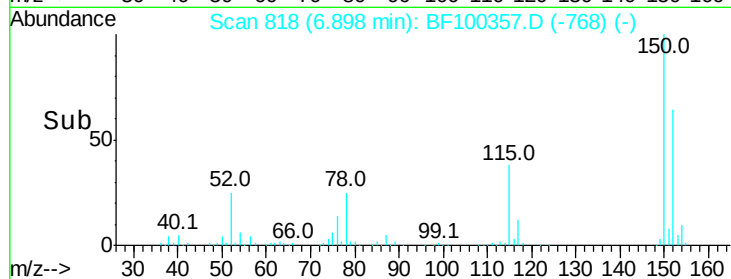
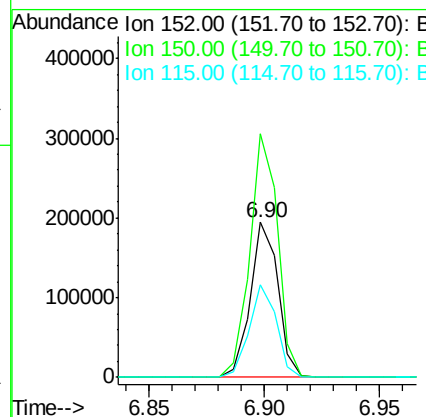
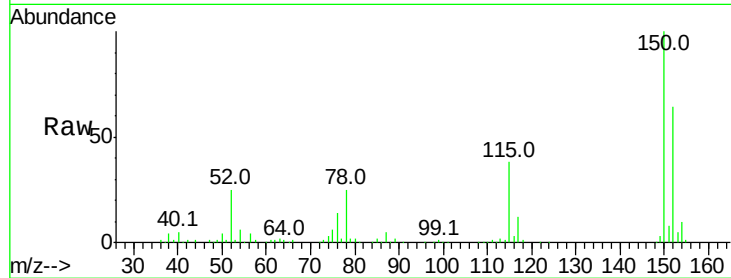
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-(1-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.2 | 124.6 | 186.8 |
| 115     | 60.1  | 50.1  | 75.1  |

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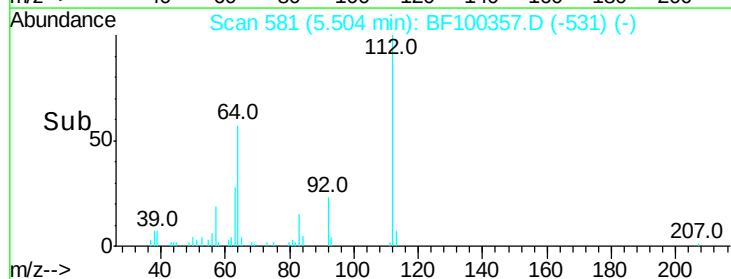
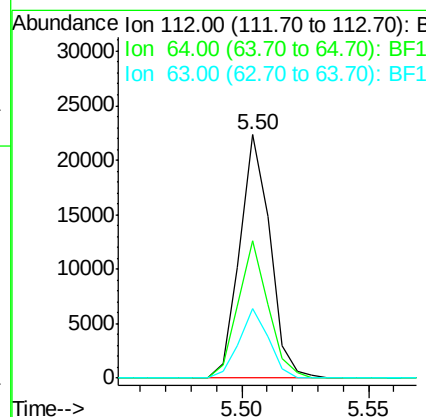
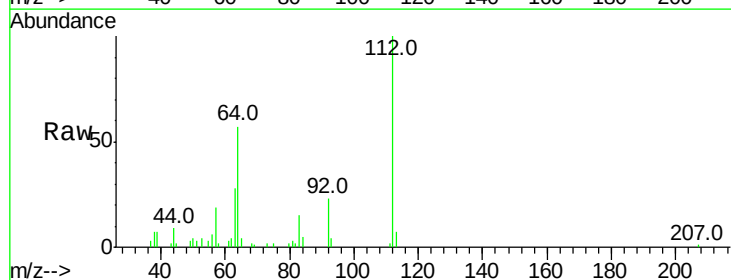
Sohil  
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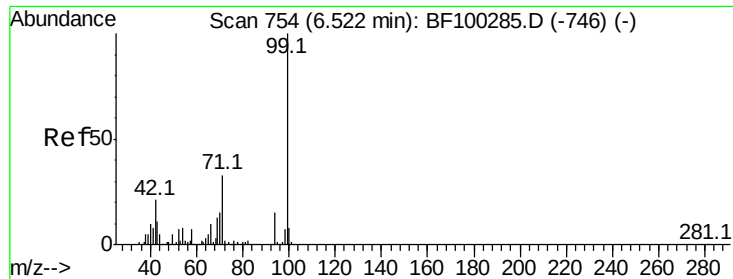


#5

2-Fluorophenol  
Concen: 1.816 ng  
RT: 5.50 min Scan# 581  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.6  | 47.9  | 71.9  |
| 63      | 28.5  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 1.880 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.02 min

Lab File: BF100357.D

Acq: 9 Nov 2017 22:50

Instrument :

BNA\_F

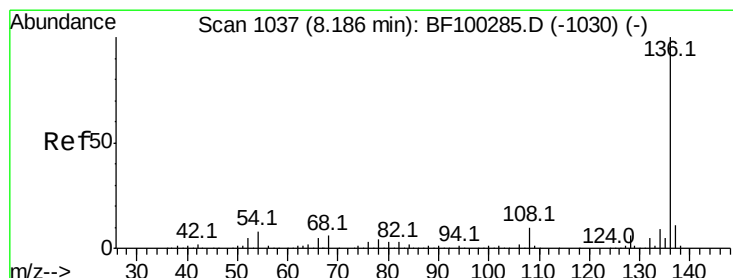
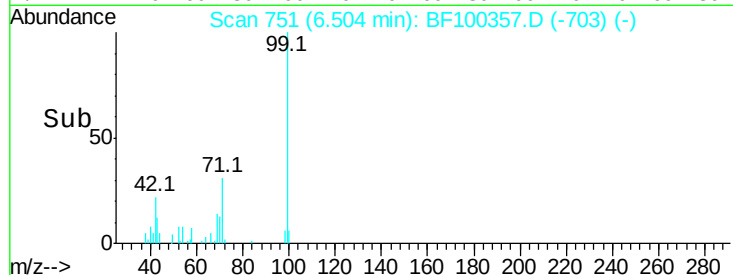
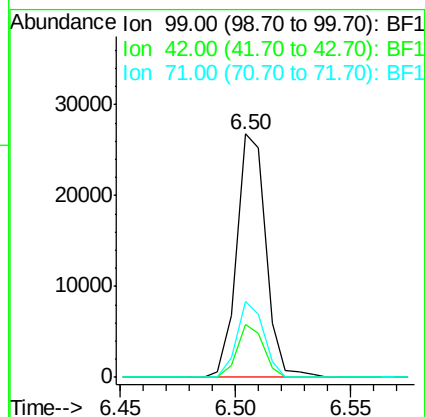
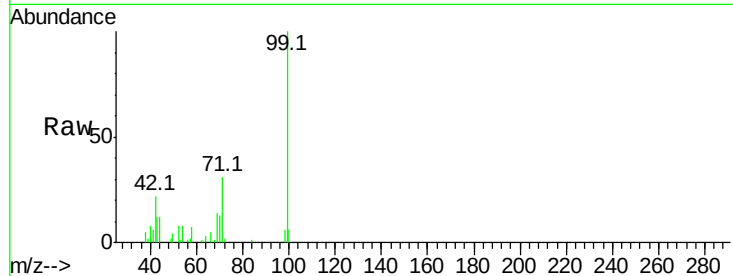
ClientSampled :

TP-3-(1-4)

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 99      | 100  |       | 23658 |       |       |
| 42      | 21.6 | 14.5  | 21.7  |       |       |
| 71      | 31.2 | 25.4  | 38.0  |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

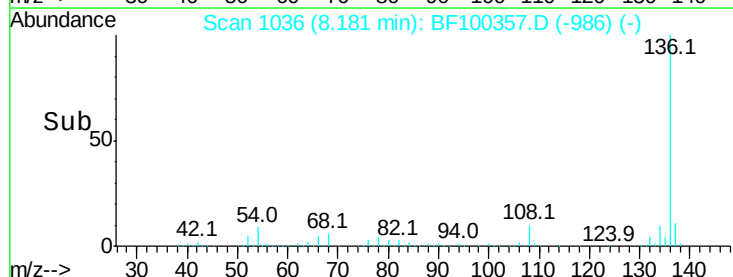
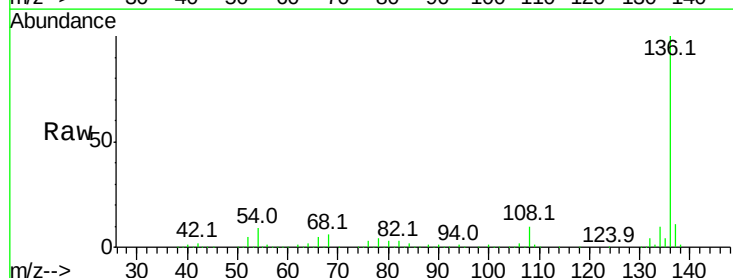
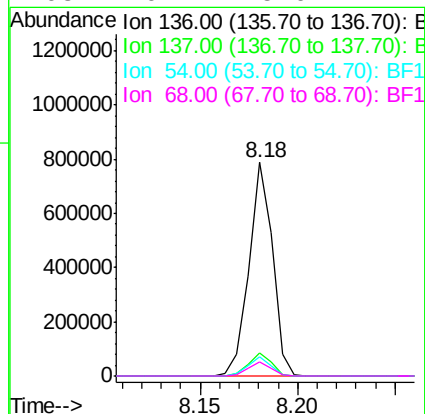
RT: 8.18 min Scan# 1036

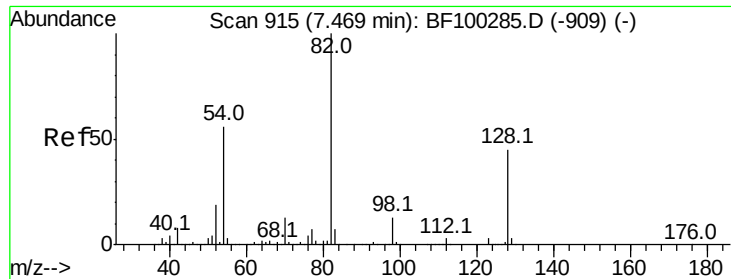
Delta R.T. -0.01 min

Lab File: BF100357.D

Acq: 9 Nov 2017 22:50

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 657109 |       |       |
| 137     | 11.0 | 8.9   | 13.3   |       |       |
| 54      | 9.3  | 6.6   | 9.8    |       |       |
| 68      | 6.4  | 5.0   | 7.4    |       |       |





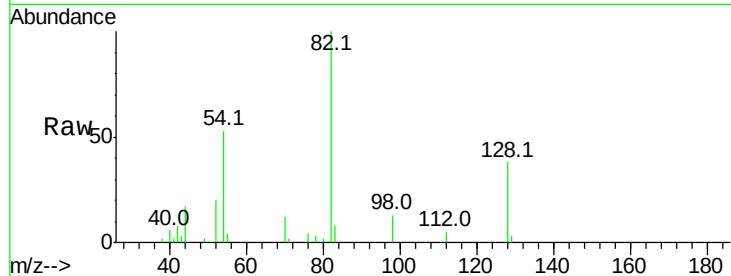
#23  
Nitrobenzene-d5  
Concen: 1.277 ng  
RT: 7.45 min Scan# 912  
Delta R.T. -0.02 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampled :  
TP-3-(1-4)

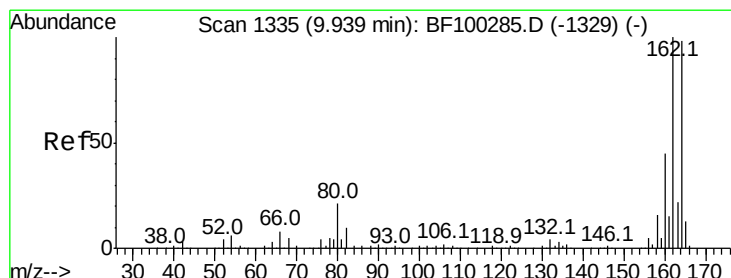
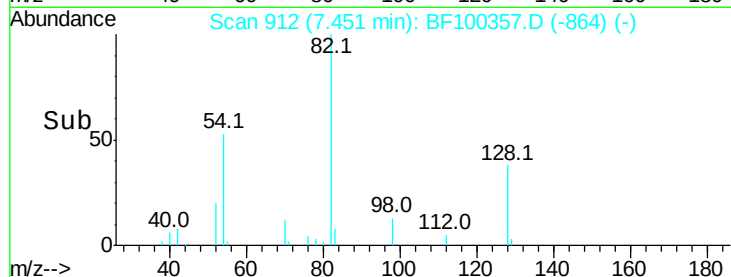
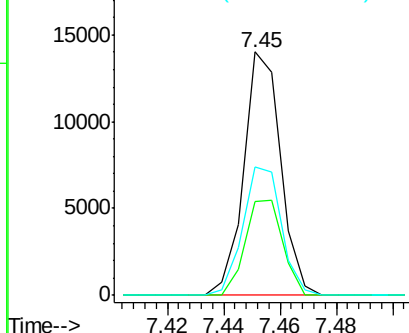
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.4  | 36.1  | 54.1  |
| 54      | 52.5  | 41.4  | 62.2  |

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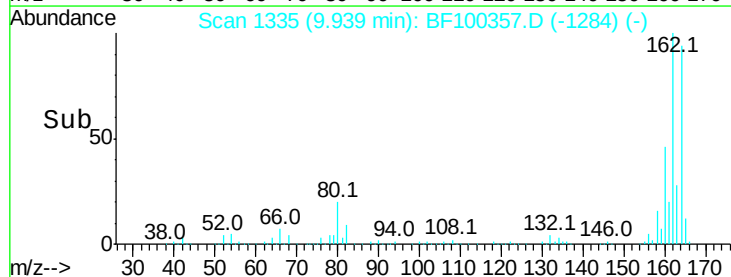
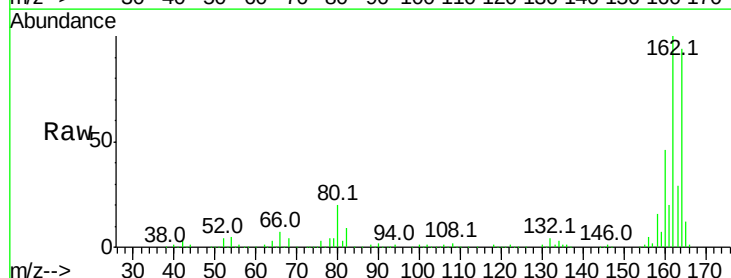
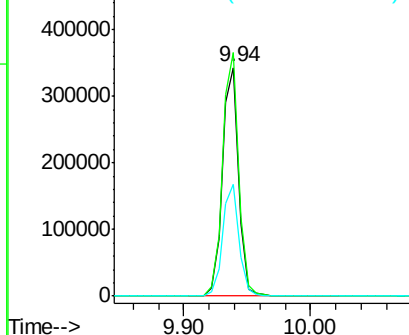
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

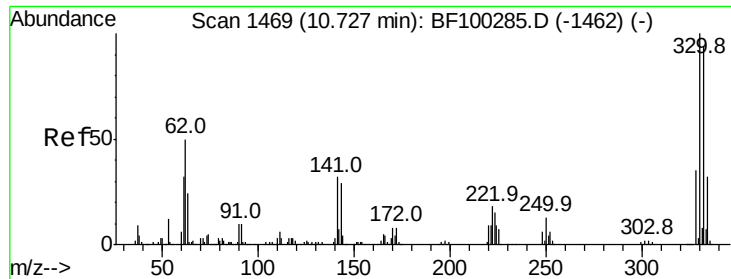


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. 0.00 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.6 | 86.1  | 129.1 |
| 160     | 49.2  | 38.3  | 57.5  |

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





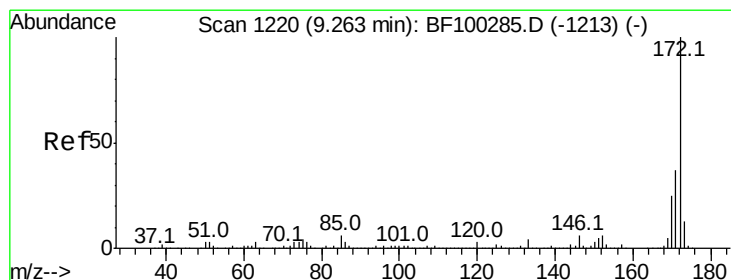
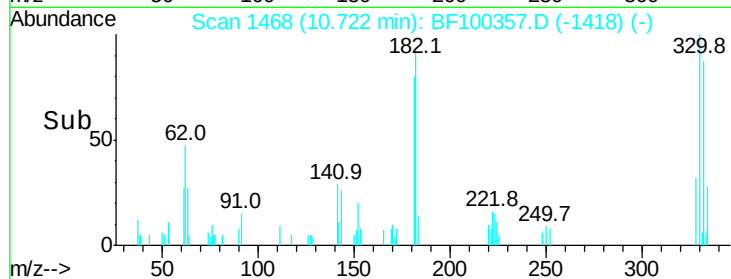
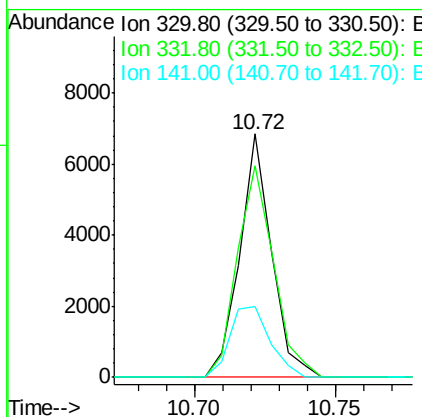
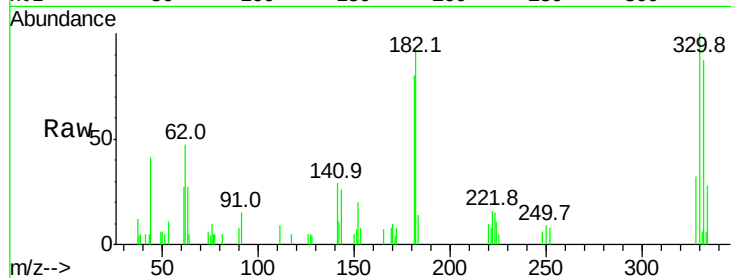
#41  
 2,4,6-Tribromophenol  
 Concen: 1.733 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. -0.01 min  
 Lab File: BF100357.D  
 Acq: 9 Nov 2017 22:50

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-3-(1-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 99.1  | 77.0  | 115.6 |
| 141     | 36.9  | 29.9  | 44.9  |

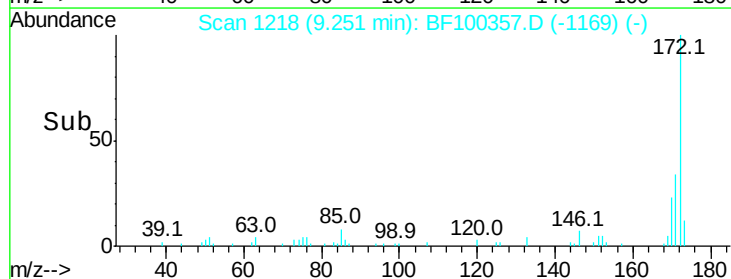
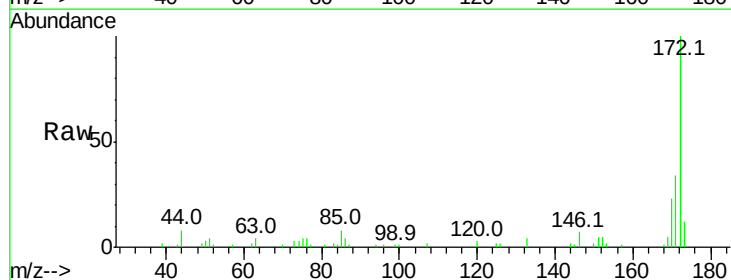
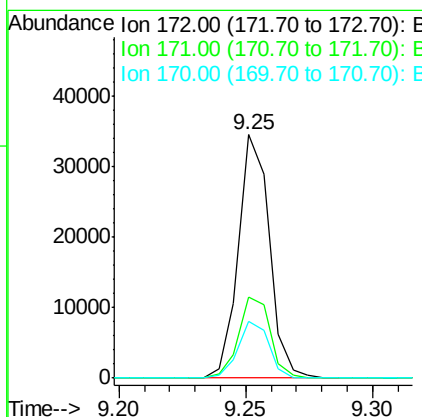
Manual Integrations  
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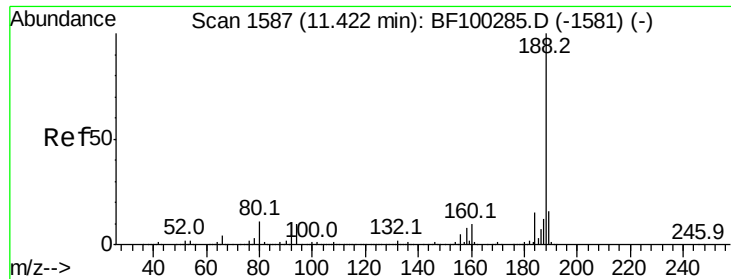
Sohil  
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#44  
 2-Fluorobiphenyl  
 Concen: 1.468 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: BF100357.D  
 Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.5  | 29.7  | 44.5  |
| 170     | 23.2  | 19.6  | 29.4  |





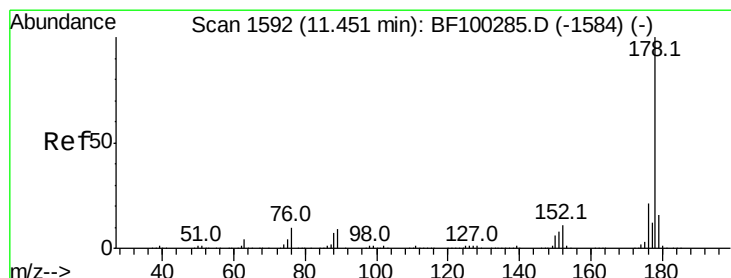
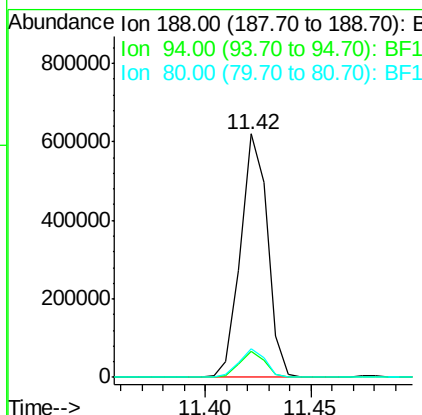
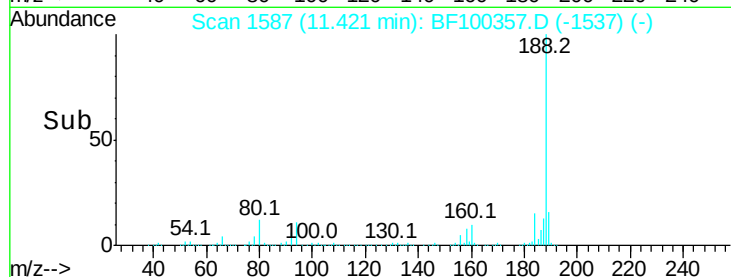
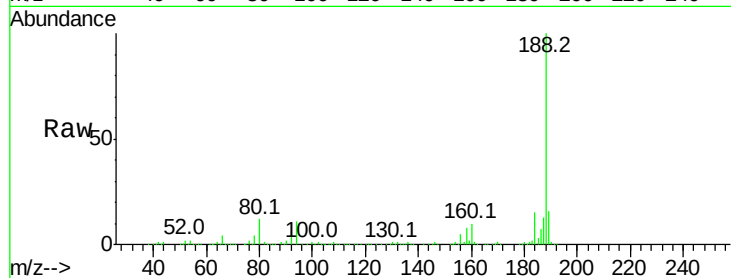
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1587  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-(1-4)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 10.9  | 8.5  | 12.7  |       |
| 80      | 11.9  | 9.2  | 13.8  |       |

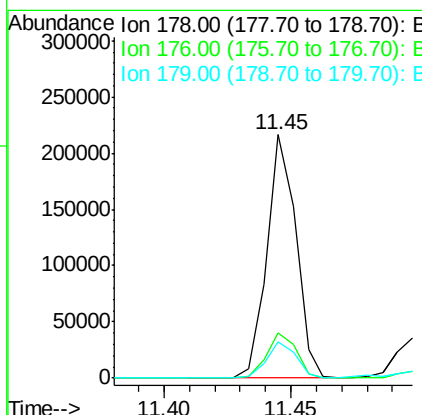
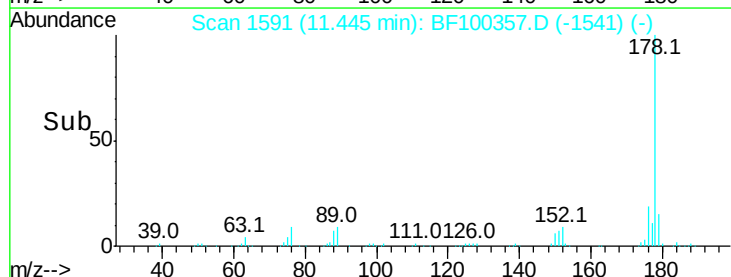
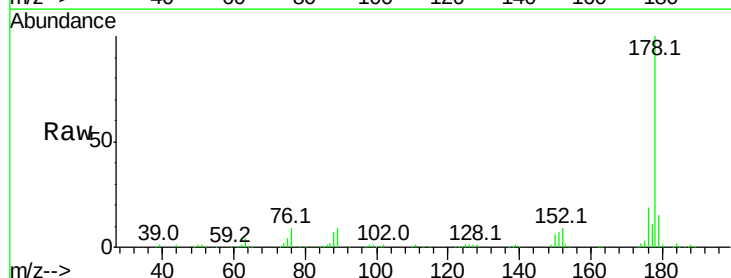
Manual Integrations  
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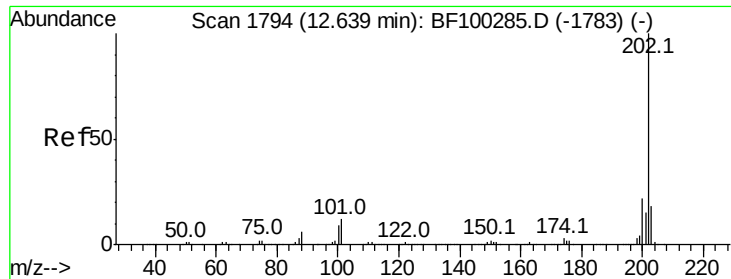
Sohil  
11/10/2017 1:15:22 PM



#70  
Phenanthrene  
Concen: 5.983 ng  
RT: 11.45 min Scan# 1591  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 176     | 18.8  | 15.8 | 23.8  |       |
| 179     | 15.1  | 13.0 | 19.6  |       |





#74

Fluoranthene

Concen: 7.181 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.01 min

Lab File: BF100357.D

Acq: 9 Nov 2017 22:50

Instrument :

BNA\_F

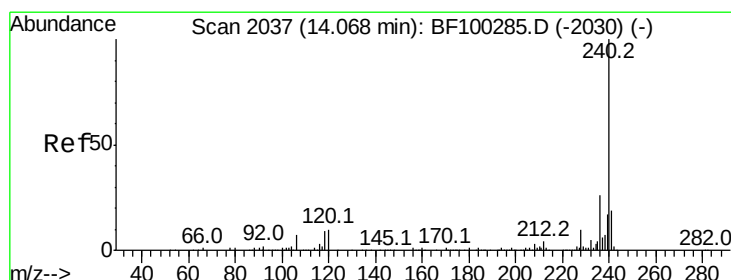
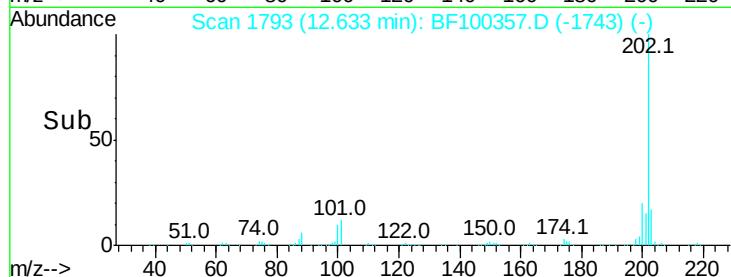
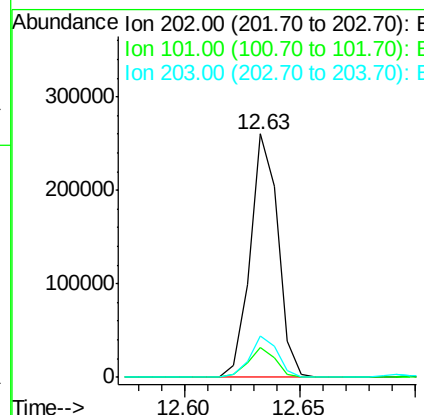
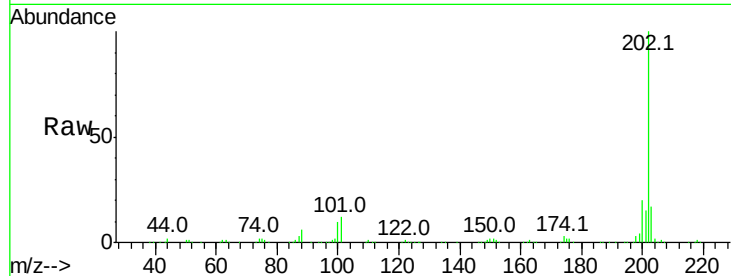
ClientSampled :

TP-3-(1-4)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 219654 |       |       |
| 101     | 12.2 | 0.0   | 34.1   |       |       |
| 203     | 16.9 | 0.0   | 38.1   |       |       |

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#75

Chrysene-d12

Concen: 20.000 ng

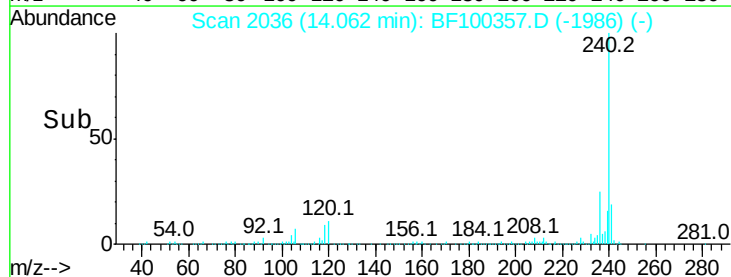
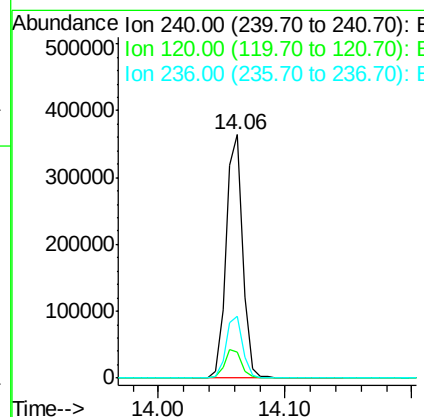
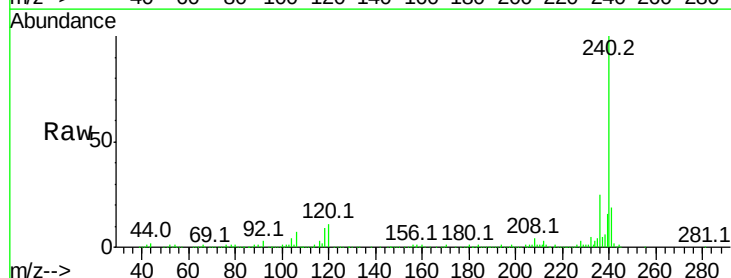
RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

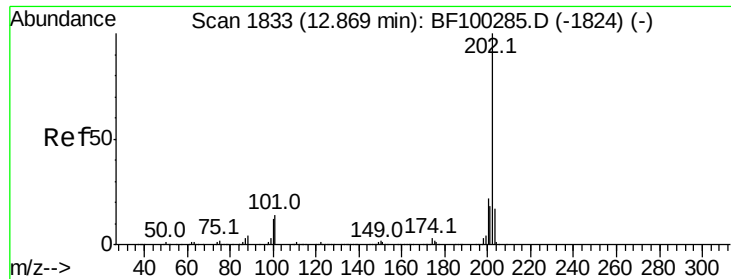
Lab File: BF100357.D

Acq: 9 Nov 2017 22:50

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 332508 |       |       |
| 120     | 10.7 | 9.5   | 14.3   |       |       |
| 236     | 25.2 | 20.7  | 31.1   |       |       |







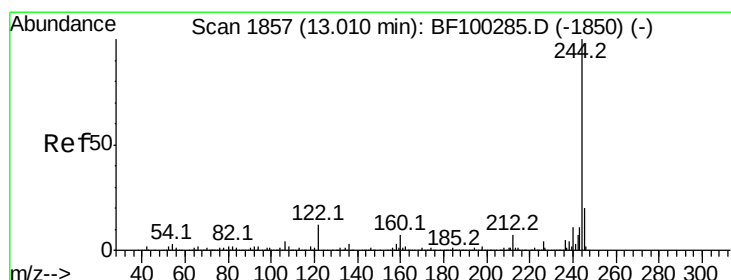
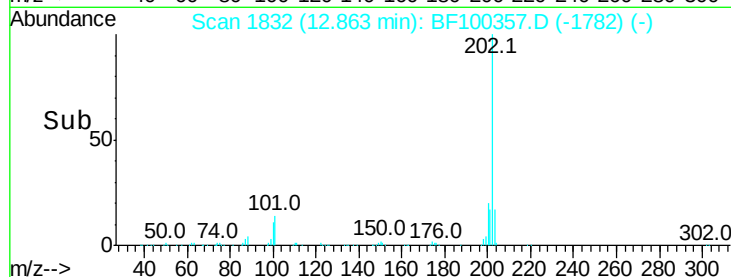
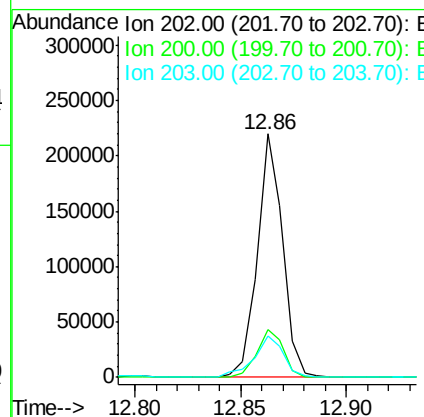
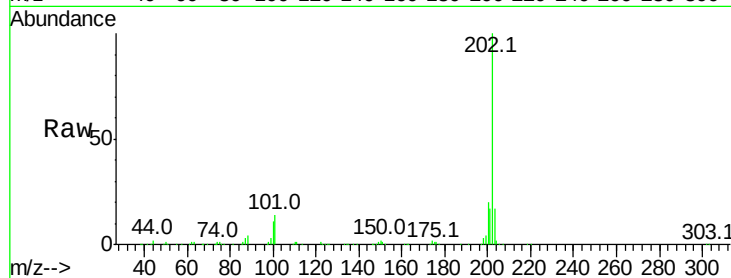
#77  
Pvrene  
Concen: 7.722 ng  
RT: 12.86 min Scan# 1832  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-(1-4)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 19.8  | 17.4       | 26.2  |
| 203     | 17.1  | 14.3       | 21.5  |

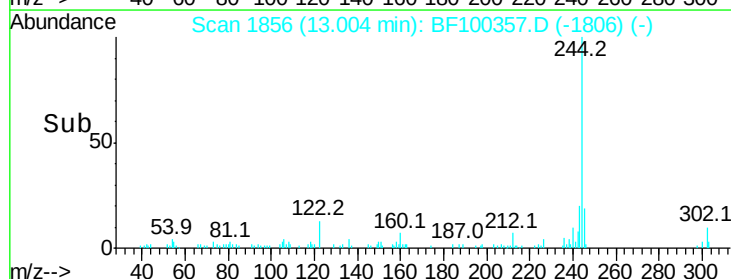
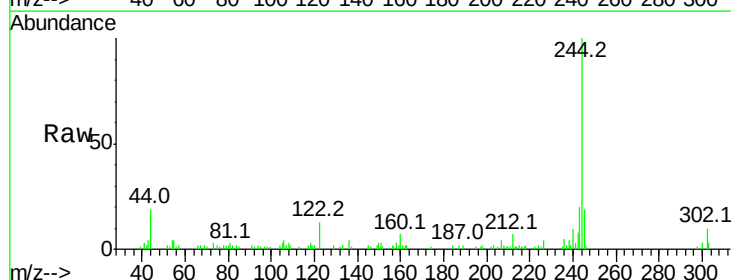
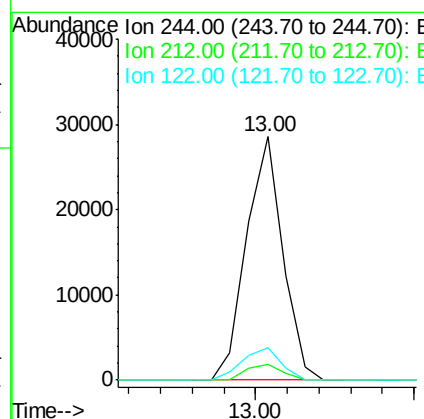
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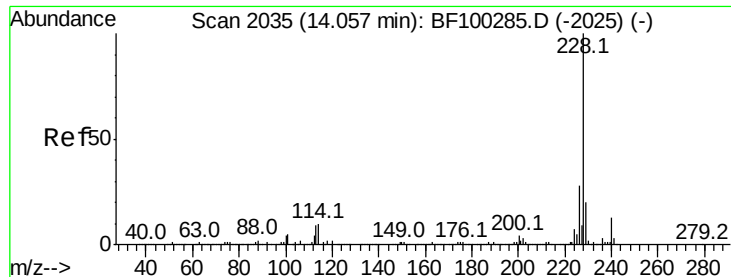
Sohil  
11/10/2017 1:15:22 PM



#78  
Terphenyl-d14  
Concen: 1.568 ng  
RT: 13.00 min Scan# 1856  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.5   | 5.4        | 8.0   |
| 122     | 13.3  | 11.0       | 16.4  |





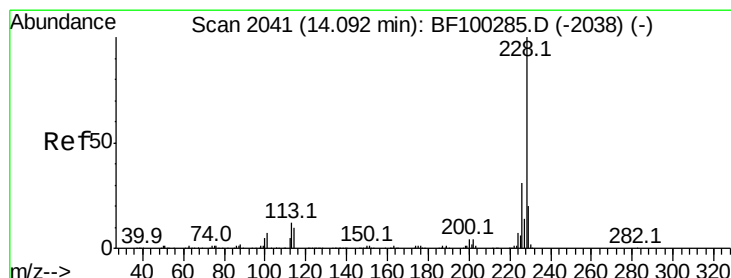
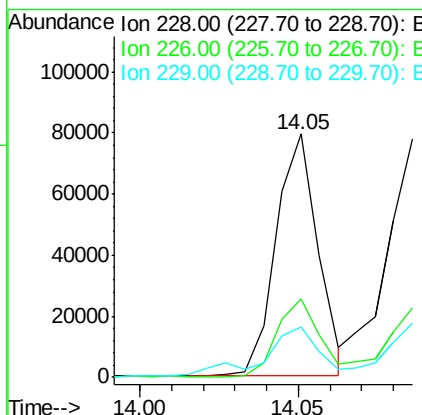
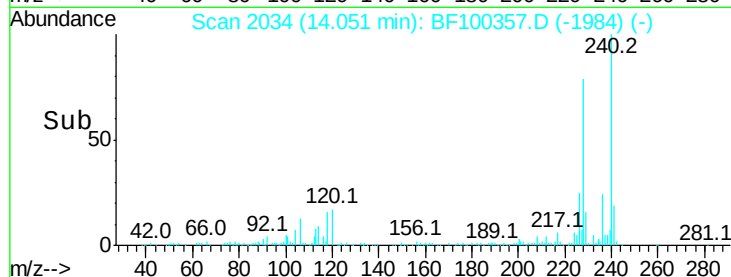
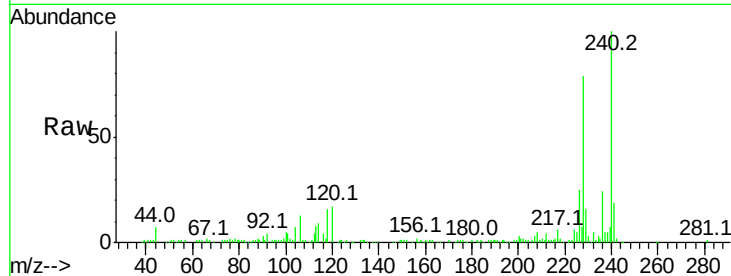
#80  
Benzo(a)anthracene  
Concen: 3.658 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampled :  
TP-3-(1-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 22.6  | 33.8  |
| 229     | 20.7  | 15.8  | 23.6  |

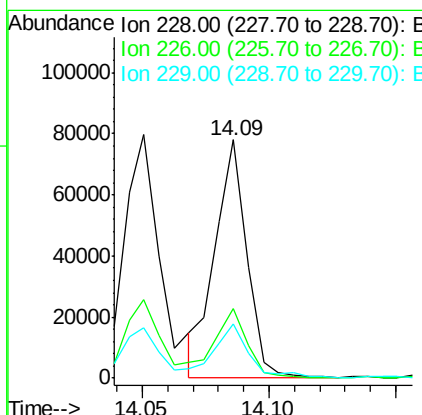
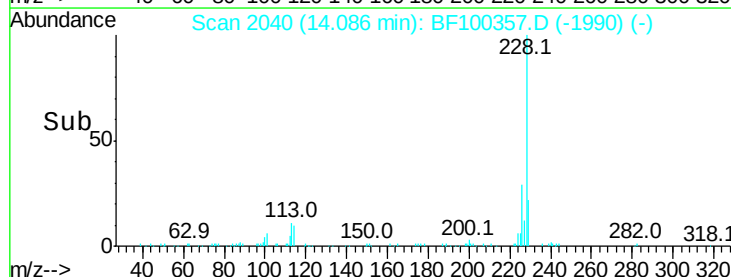
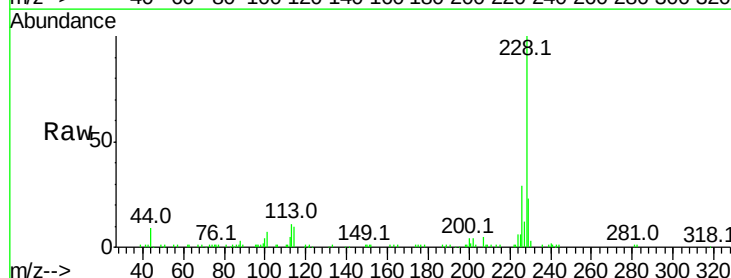
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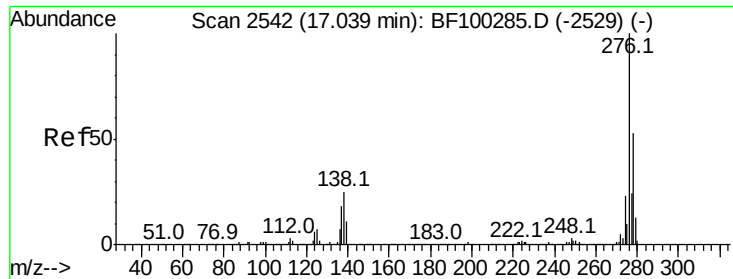
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11/10/2017 1:15:22 PM



#82  
Chrysene  
Concen: 3.537 ng  
RT: 14.09 min Scan# 2040  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.1  | 25.0  | 37.6  |
| 229     | 22.8  | 16.2  | 24.4  |





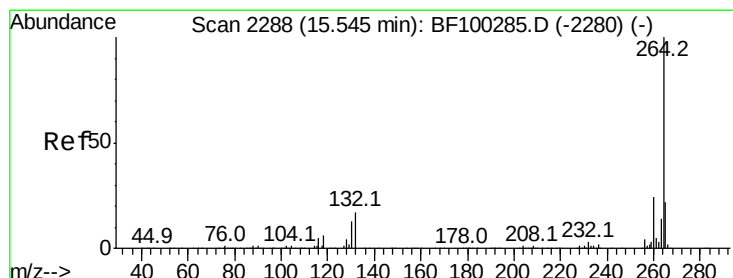
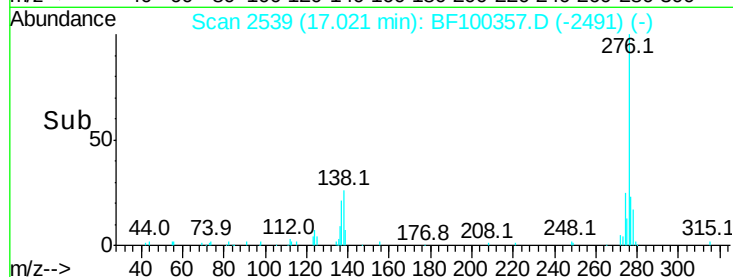
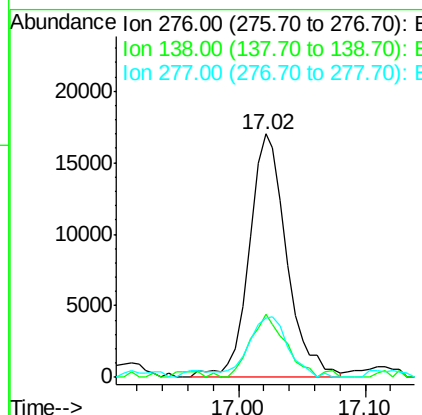
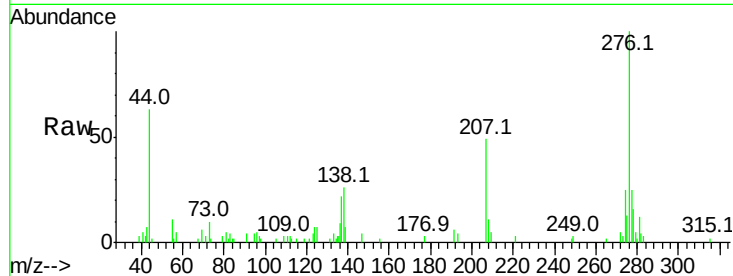
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.228 ng  
RT: 17.02 min Scan# 2539  
Delta R.T. -0.02 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampled :  
TP-3-(1-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.2  | 25.0  | 37.6# |
| 277     | 26.1  | 20.1  | 30.1  |

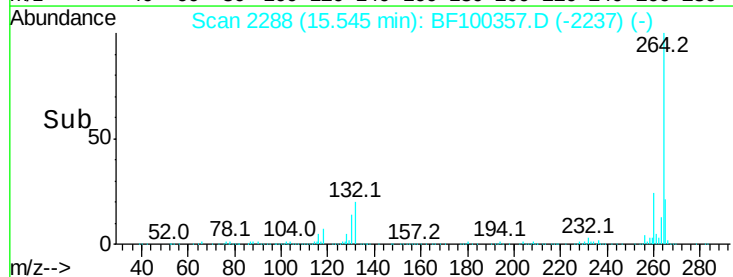
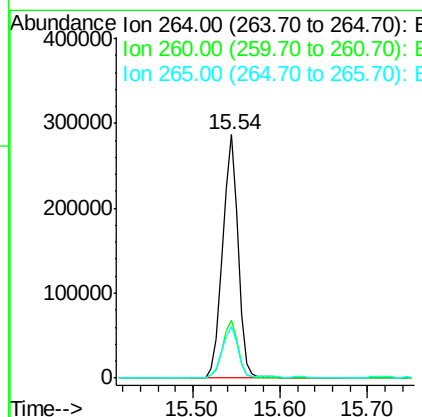
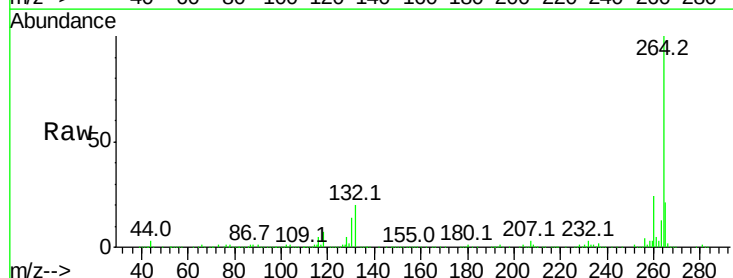
Manual Integrations  
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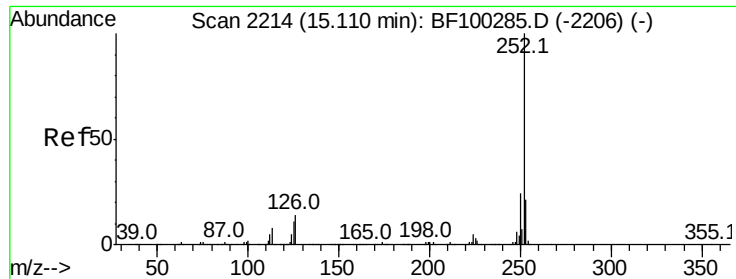
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11/10/2017 1:15:22 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2288  
Delta R.T. 0.00 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.2  | 28.8  |
| 265     | 21.4  | 17.5  | 26.3  |





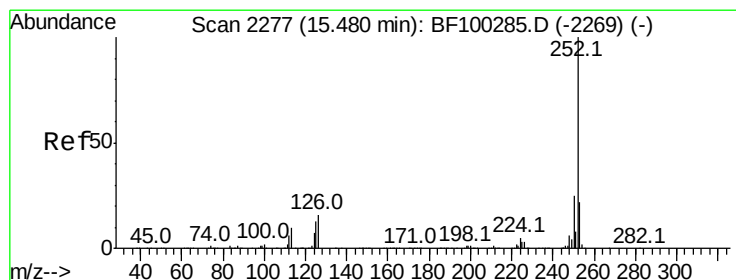
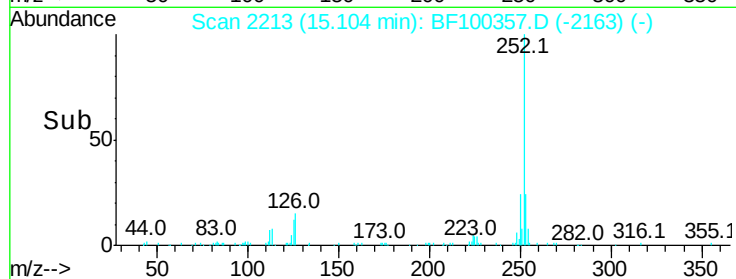
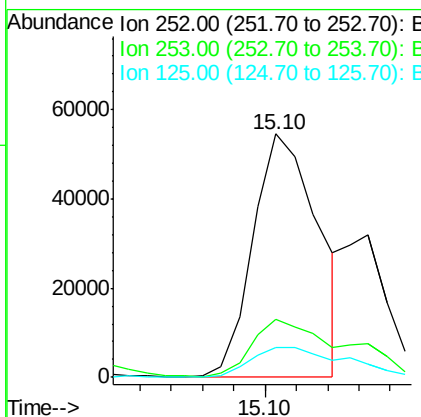
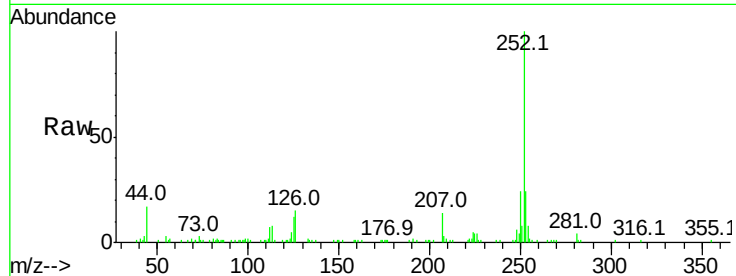
#87  
Benzo(b)fluoranthene  
Concen: 3.740 ng m  
RT: 15.10 min Scan# 2213  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-(1-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.0  | 25.6  |
| 125     | 12.0  | 9.0   | 13.6  |

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#89  
Benzo(a)pyrene  
Concen: 3.087 ng  
RT: 15.47 min Scan# 2276  
Delta R.T. -0.01 min  
Lab File: BF100357.D  
Acq: 9 Nov 2017 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.1  | 25.7  |
| 125     | 12.3  | 9.8   | 14.6  |

