

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\  
 Data File : BF099655.D  
 Acq On : 19 Oct 2017 9:39  
 Operator : SJ/JU  
 Sample : I5935-06  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-101617-B

Manual Integrations  
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Sohil  
 10/19/2017 6:15:55 PM

Quant Time: Oct 19 17:36:42 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 18 15:18:49 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 88306    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.11  | 136  | 314668   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.86  | 164  | 111406   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.35 | 188  | 179087   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.99 | 240  | 187342   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.46 | 264  | 147052   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 732966   | 132.13 | ng    | 0.02     |
| 7) Phenol-d6                | 6.47  | 99   | 776572   | 113.48 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 513767   | 104.71 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 136880   | 150.15 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.18  | 172  | 856951   | 128.41 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.93 | 244  | 691080   | 83.89  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.13  | 128  | 226349   | 15.316 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.82  | 142  | 53756    | 5.595  | ng    | 96       |
| 51) Acenaphthene            | 9.89  | 154  | 28668    | 4.112  | ng    | 97       |
| 54) Dibenzofuran            | 10.07 | 168  | 44133    | 4.755  | ng    | 97       |
| 57) Fluorene                | 10.41 | 166  | 23066    | 3.092  | ng    | 99       |
| 70) Phenanthrene            | 11.37 | 178  | 41145    | 4.292  | ng    | 98       |
| 72) Carbazole               | 11.59 | 167  | 26004    | 2.707  | ng    | 95       |

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

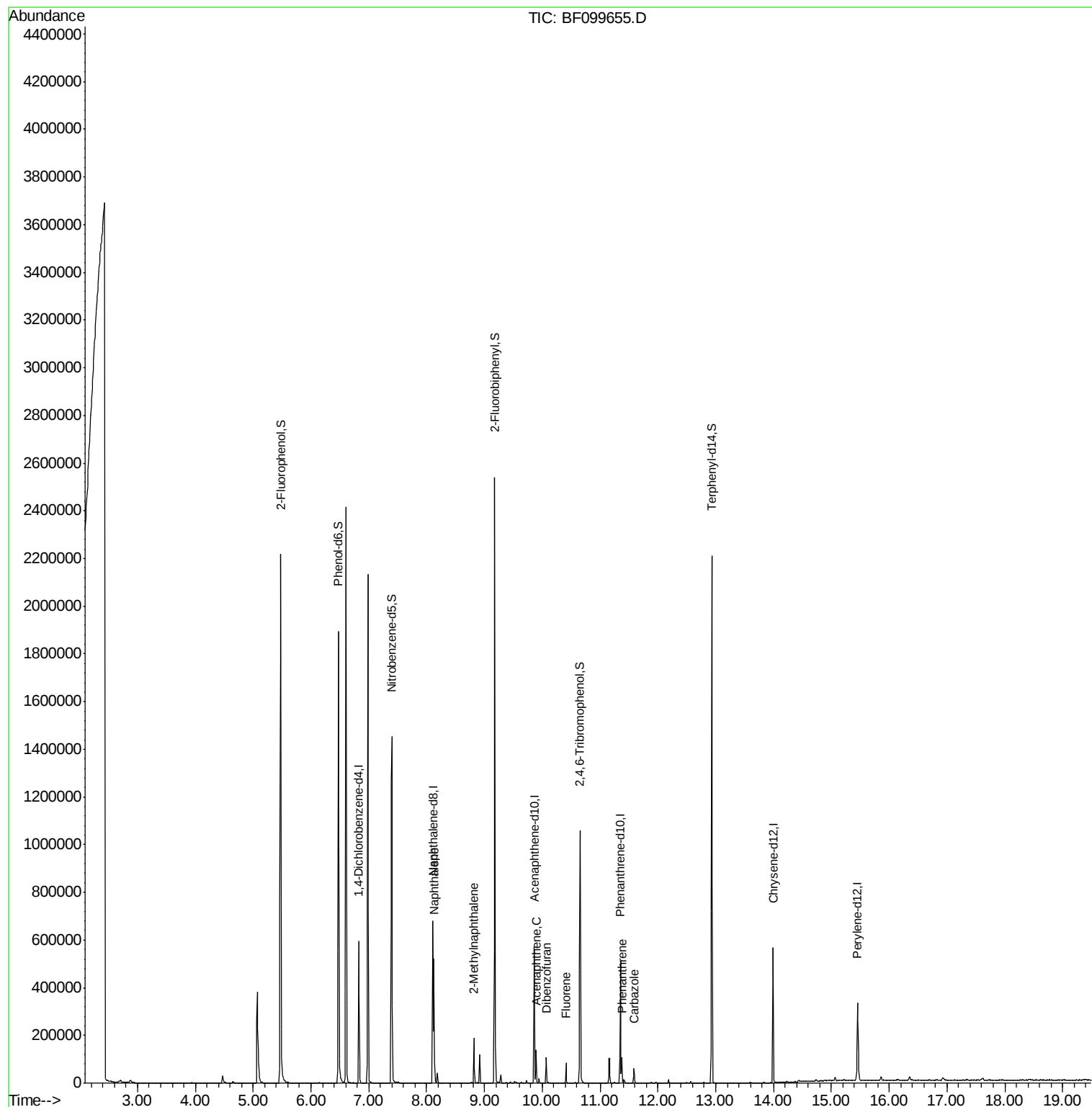
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\  
Data File : BF099655.D  
Acq On : 19 Oct 2017 9:39  
Operator : SJ/JU  
Sample : I5935-06  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

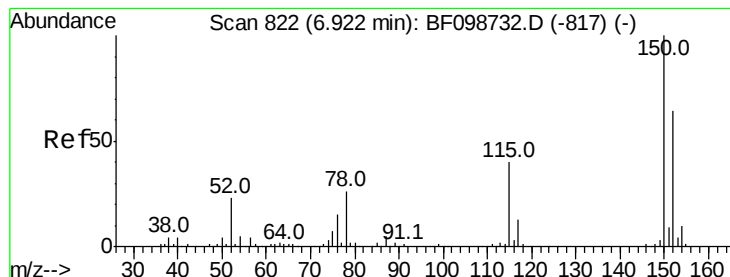
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101617-B

Manual Integrations  
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Quant Time: Oct 19 17:36:42 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 18 15:18:49 2017  
Response via : Initial Calibration





#1

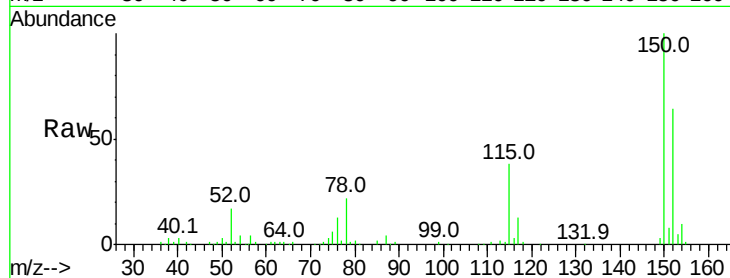
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101617-B

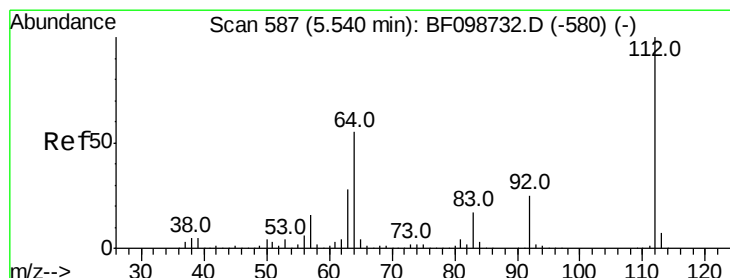
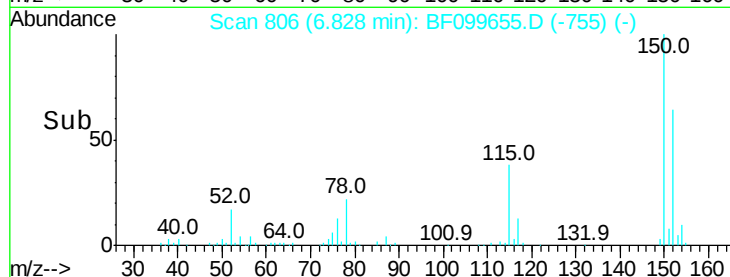
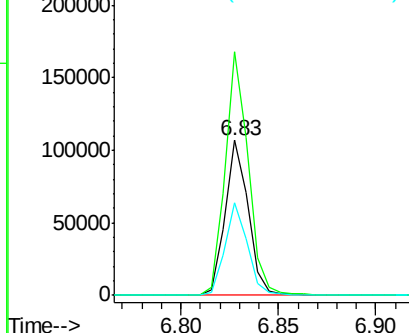
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.8 | 124.6 | 186.8 |
| 115     | 59.6  | 50.1  | 75.1  |

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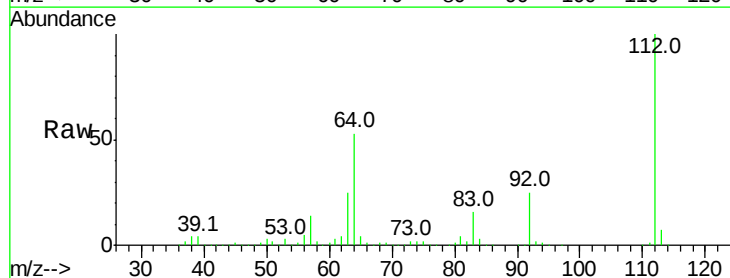
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



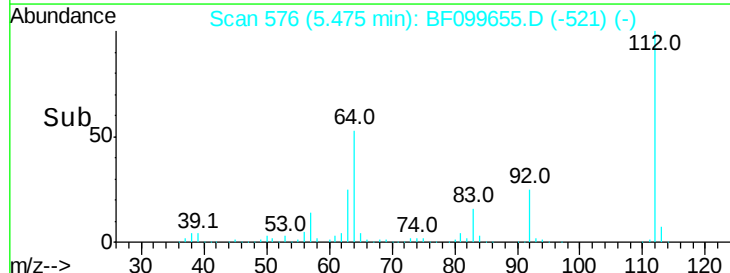
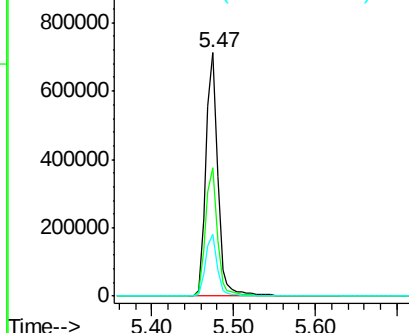
#5

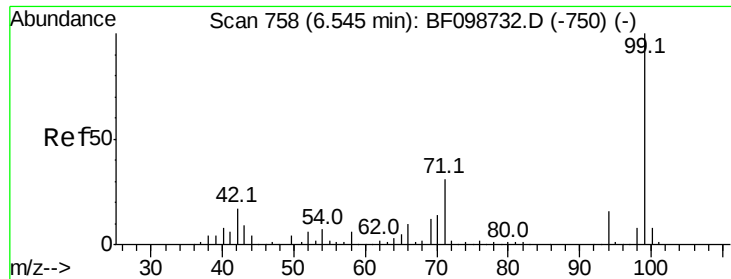
2-Fluorophenol  
Concen: 132.132 ng  
RT: 5.47 min Scan# 576  
Delta R.T. 0.02 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.0  | 47.9  | 71.9  |
| 63      | 25.4  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 113.482 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

Instrument :

BNA\_F

ClientSampleId :

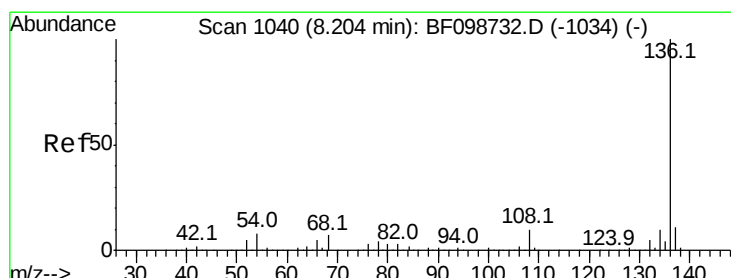
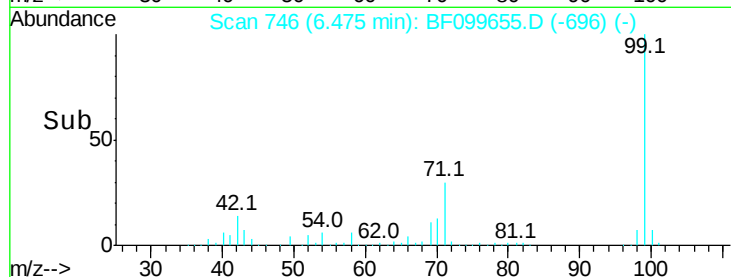
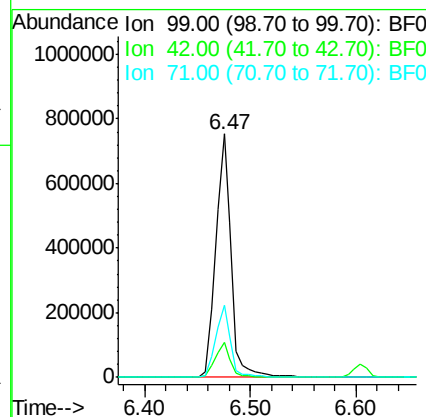
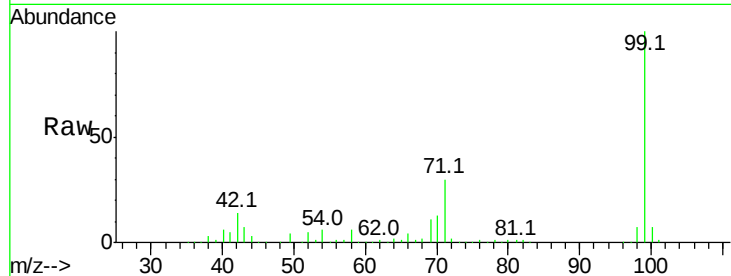
CL-02-101617-B

Tot Ion: 99 Resp: 776572

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 14.5  | 14.5  | 21.7# |
| 71  | 29.6  | 25.4  | 38.0  |

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

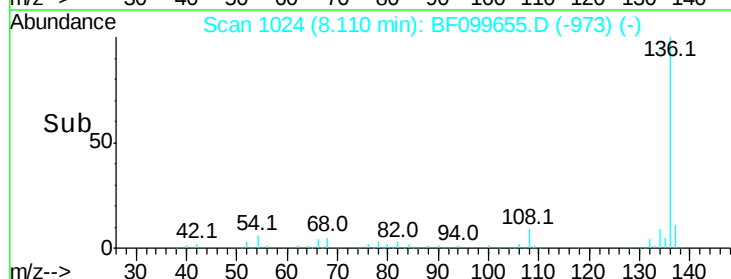
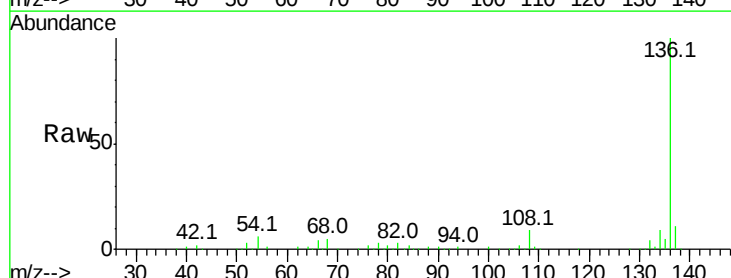
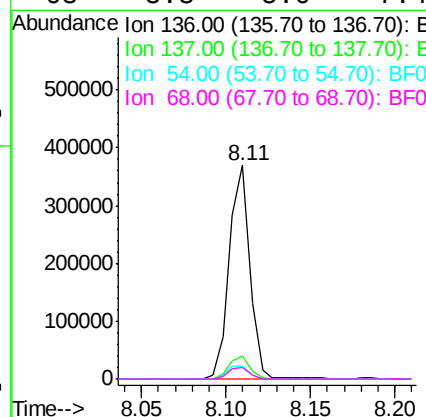
Delta R.T. 0.00 min

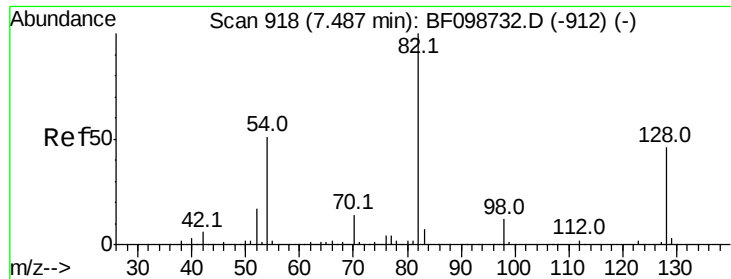
Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

Tgt Ion: 136 Resp: 314668

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.6  | 8.9   | 13.3  |
| 54  | 6.3   | 6.6   | 9.8#  |
| 68  | 5.3   | 5.0   | 7.4   |





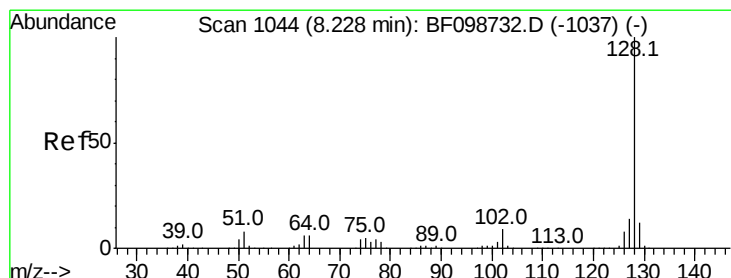
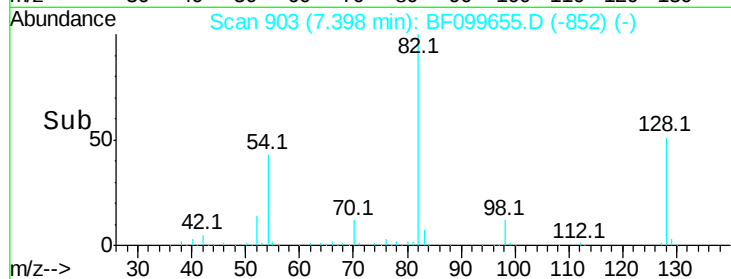
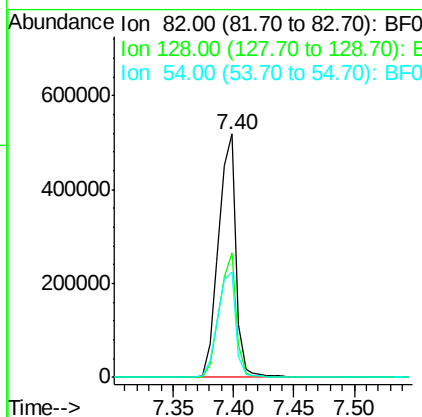
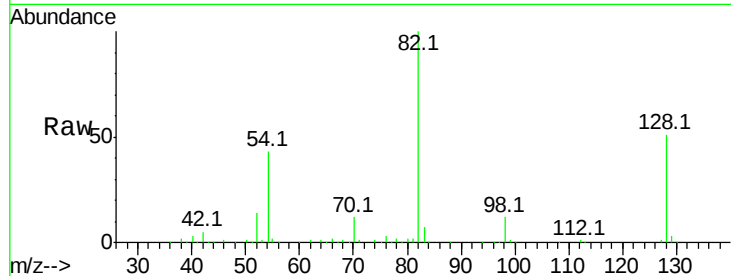
#23  
 Nitrobenzene-d5  
 Concen: 104.707 ng  
 RT: 7.40 min Scan# 903  
 Delta R.T. 0.00 min  
 Lab File: BF099655.D  
 Acq: 19 Oct 2017 9:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-101617-B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 51.2  | 36.1 | 54.1  |       |
| 54      | 43.5  | 41.4 | 62.2  |       |

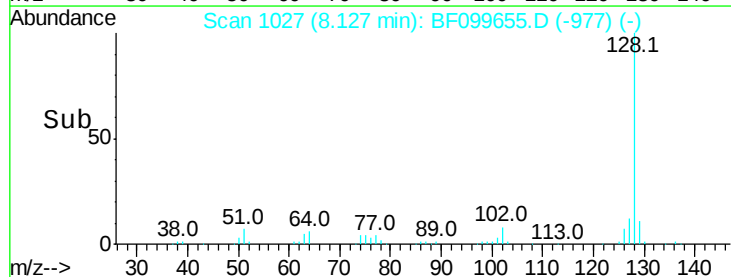
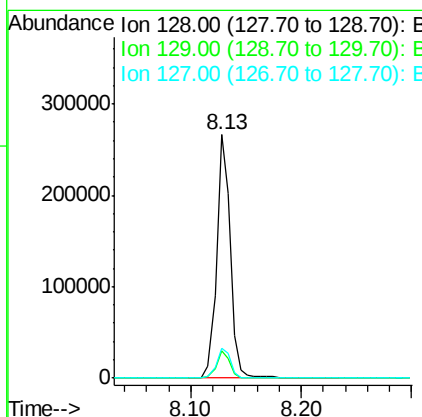
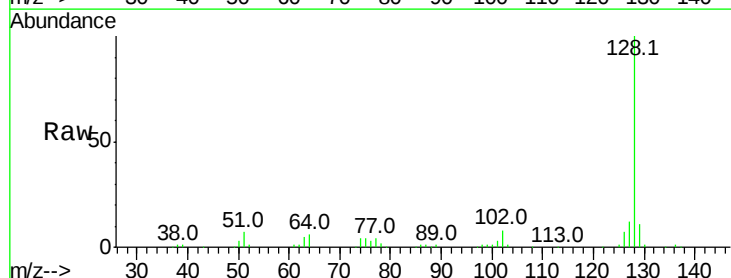
Manual Integrations  
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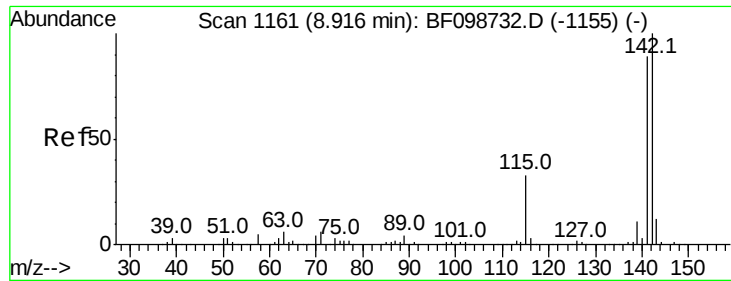
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#31  
 Naphthalene  
 Concen: 15.316 ng  
 RT: 8.13 min Scan# 1027  
 Delta R.T. -0.01 min  
 Lab File: BF099655.D  
 Acq: 19 Oct 2017 9:39

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 11.0  | 8.8  | 13.2  |       |
| 127     | 12.4  | 10.9 | 16.3  |       |





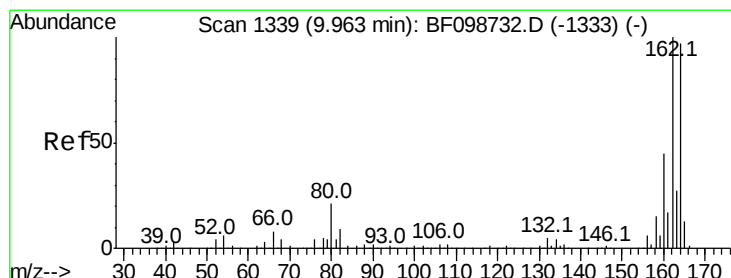
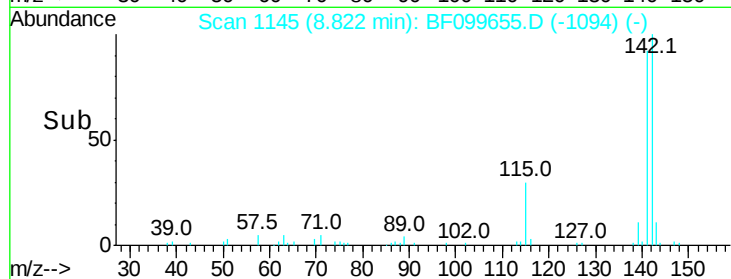
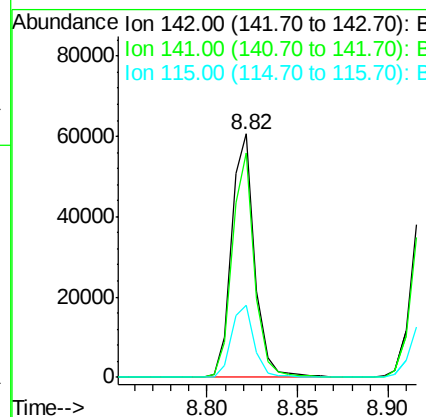
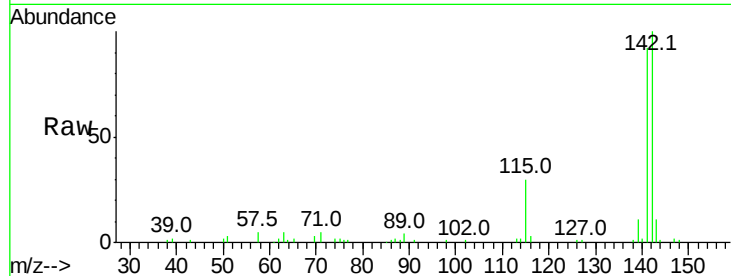
#37  
2-Methylnaphthalene  
Concen: 5.595 ng  
RT: 8.82 min Scan# 1145  
Delta R.T. 0.00 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101617-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.2  | 70.8  | 106.2 |
| 115     | 29.7  | 26.1  | 39.1  |

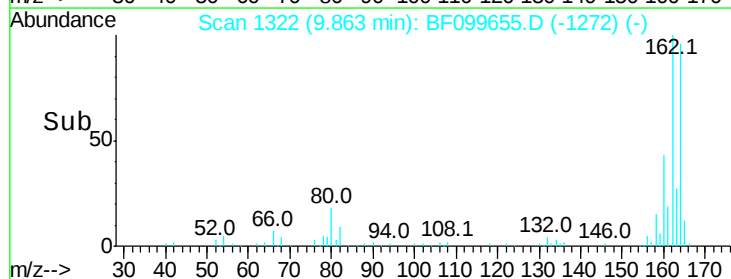
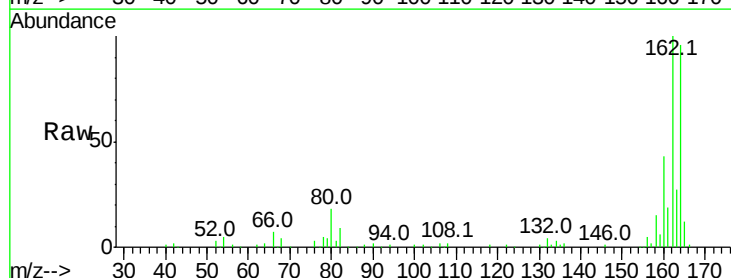
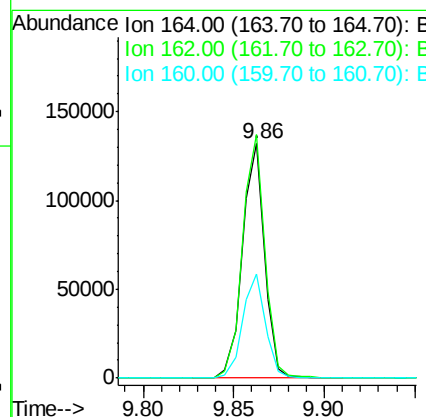
Manual Integrations  
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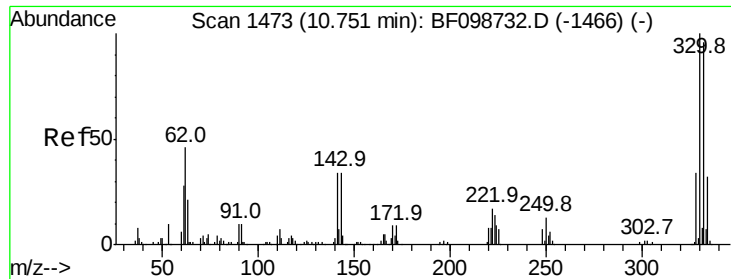
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10/19/2017 6:15:55 PM



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. -0.01 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.0 | 86.1  | 129.1 |
| 160     | 44.2  | 38.3  | 57.5  |





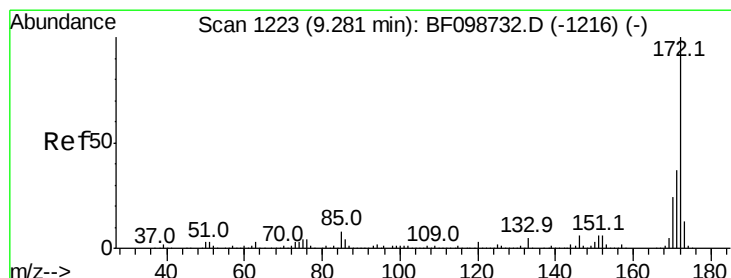
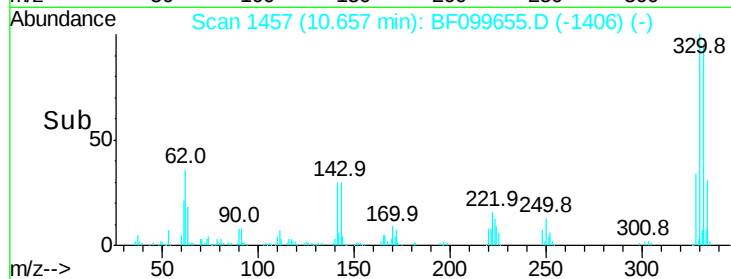
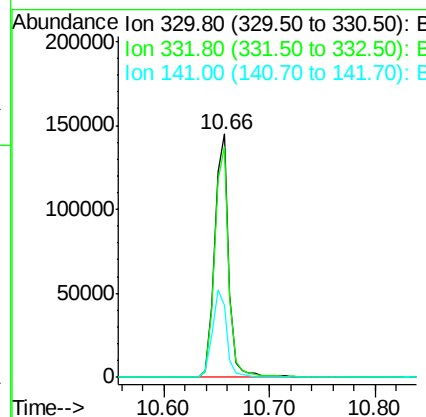
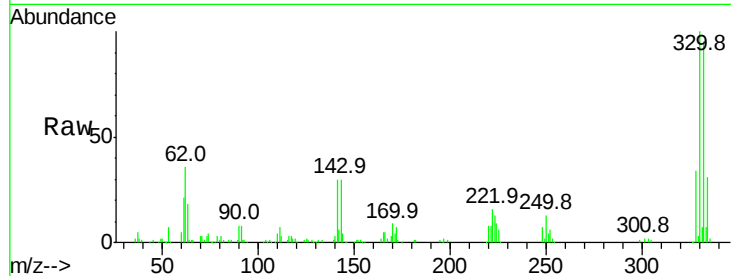
#41  
 2,4,6-Tribromophenol  
 Concen: 150.153 ng  
 RT: 10.66 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: BF099655.D  
 Acq: 19 Oct 2017 9:39

Instrument :  
 BNA\_F  
 ClientSampled :  
 CL-02-101617-B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.7  | 77.0 | 115.6 |       |
| 141     | 36.2  | 29.9 | 44.9  |       |

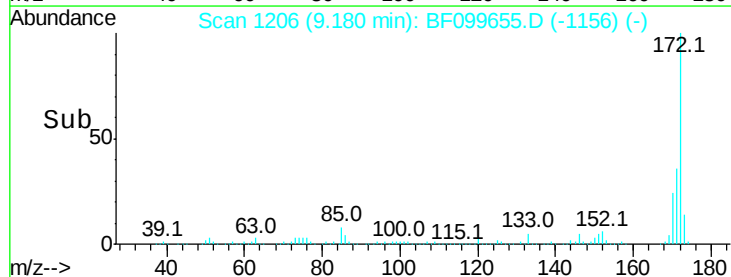
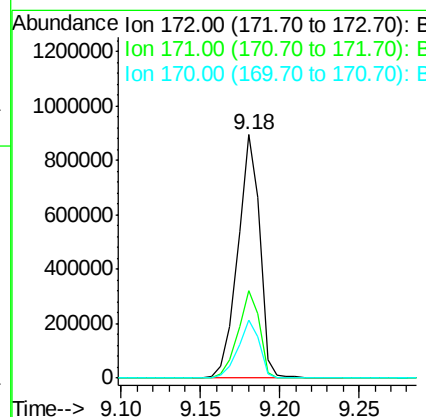
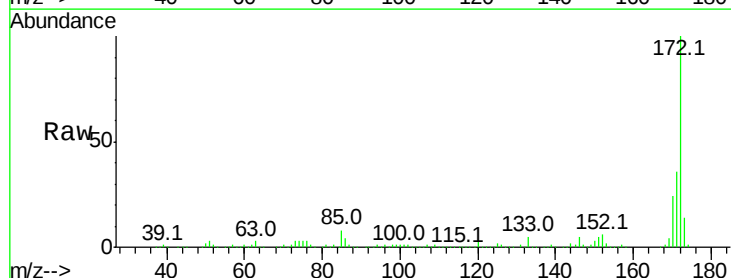
Manual Integrations  
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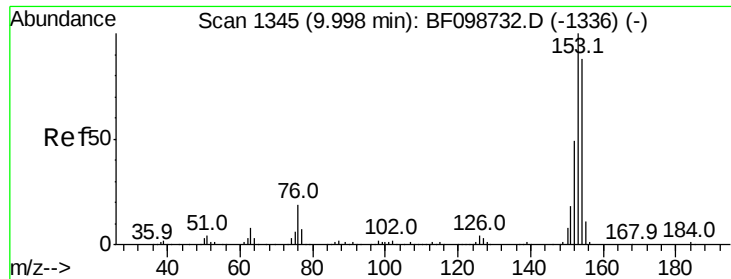
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 10/19/2017 6:15:55 PM



#44  
 2-Fluorobiphenyl  
 Concen: 128.414 ng  
 RT: 9.18 min Scan# 1206  
 Delta R.T. -0.01 min  
 Lab File: BF099655.D  
 Acq: 19 Oct 2017 9:39

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.8  | 29.7 | 44.5  |       |
| 170     | 23.7  | 19.6 | 29.4  |       |





#51

Acenaphthene

Concen: 4.112 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

Instrument :

BNA\_F

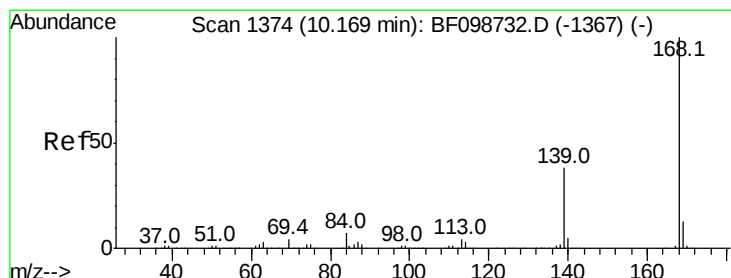
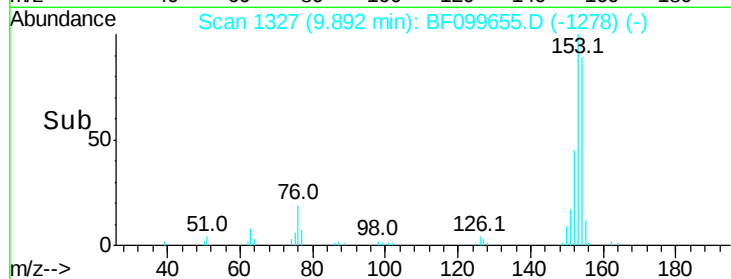
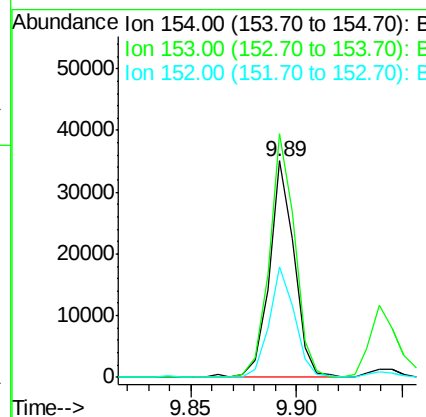
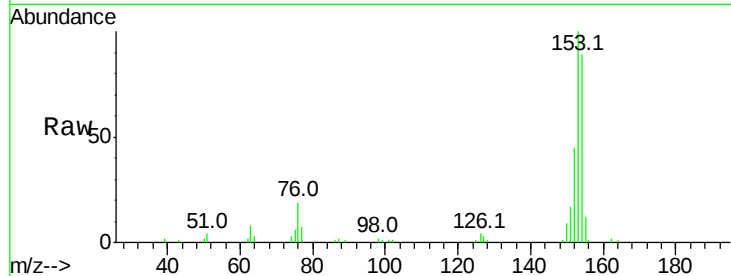
ClientSampleId :

CL-02-101617-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 28668 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 112.5 | 91.2  | 136.8 |
| 152       | 50.9  | 43.8  | 65.8  |

Manual Integrations  
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#54

Dibenzofuran

Concen: 4.755 ng

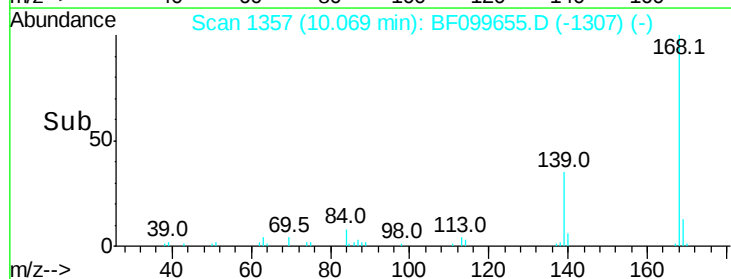
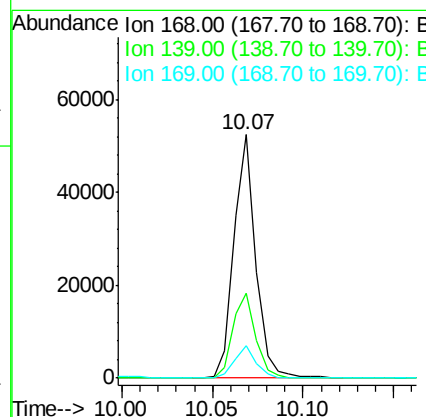
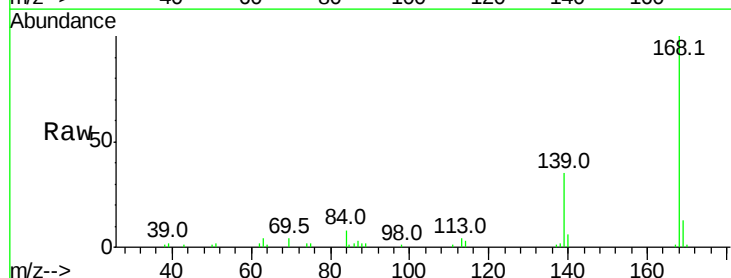
RT: 10.07 min Scan# 1357

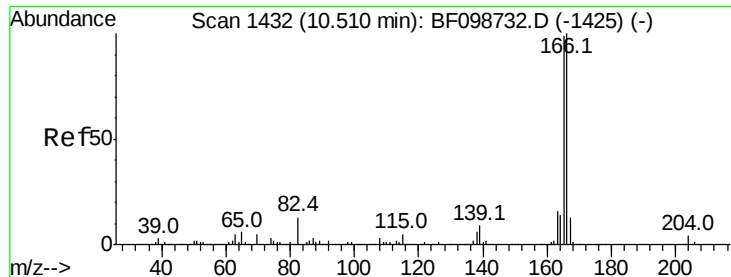
Delta R.T. -0.01 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 44133 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 34.9  | 30.1  | 45.1  |
| 169       | 13.4  | 10.9  | 16.3  |





#57

Fluorene

Concen: 3.092 ng

RT: 10.41 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

Instrument :

BNA\_F

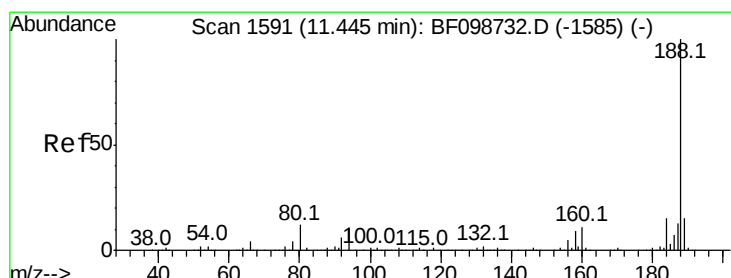
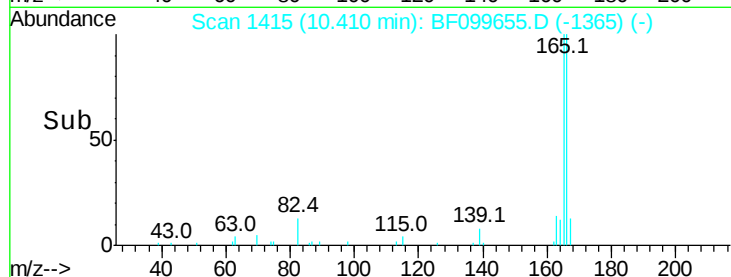
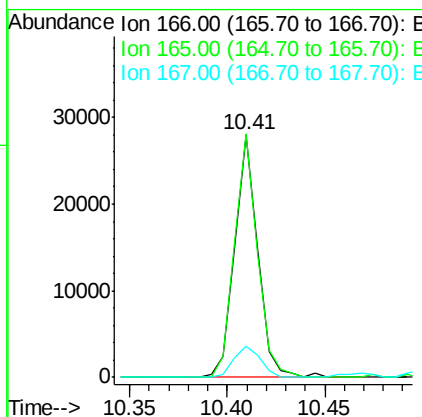
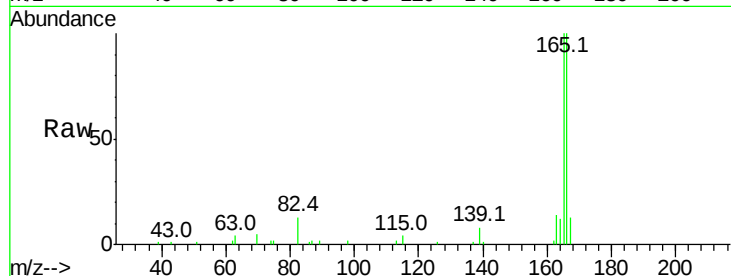
ClientSampleId :

CL-02-101617-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 23066 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.3 | 79.8  | 119.8 |
| 167       | 12.9  | 10.6  | 16.0  |

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#63

Phenanthrene-d10

Concen: 20.000 ng

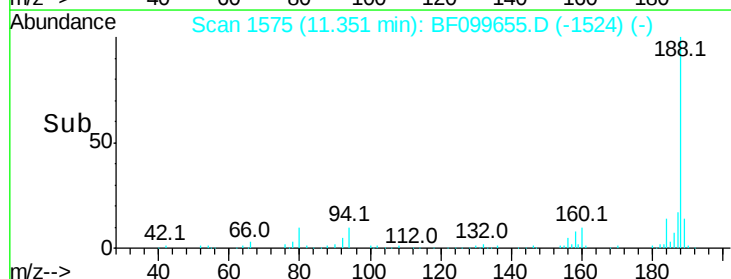
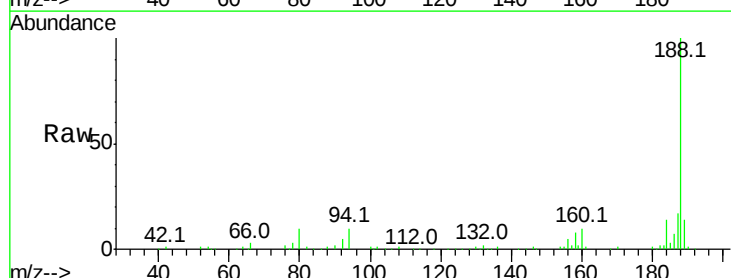
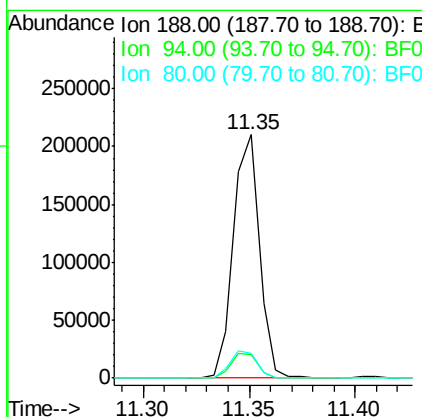
RT: 11.35 min Scan# 1575

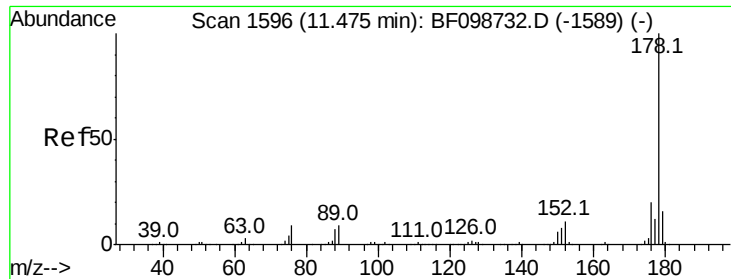
Delta R.T. 0.00 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 179087 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.6   | 8.5   | 12.7   |
| 80        | 10.0  | 9.2   | 13.8   |





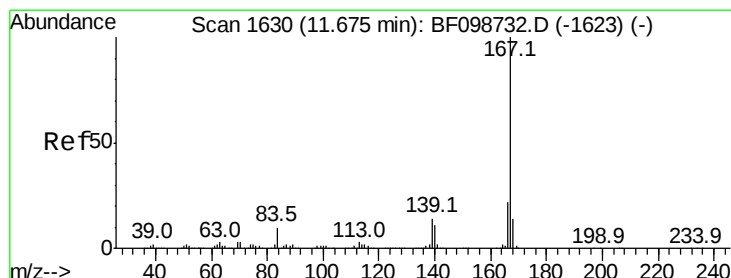
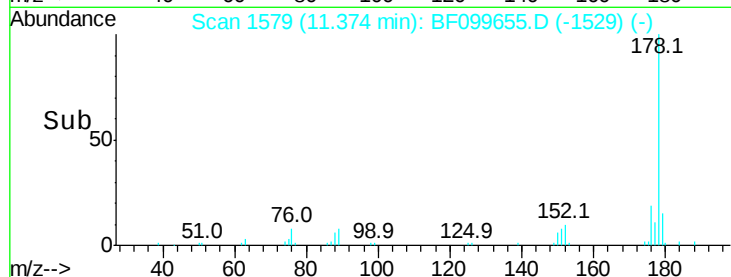
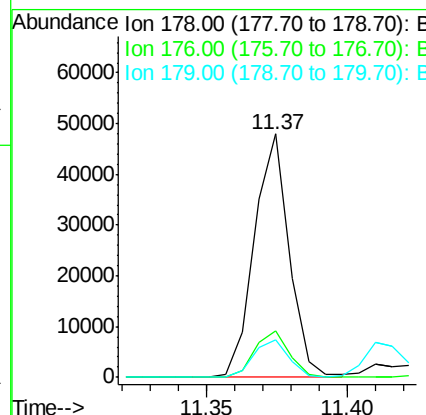
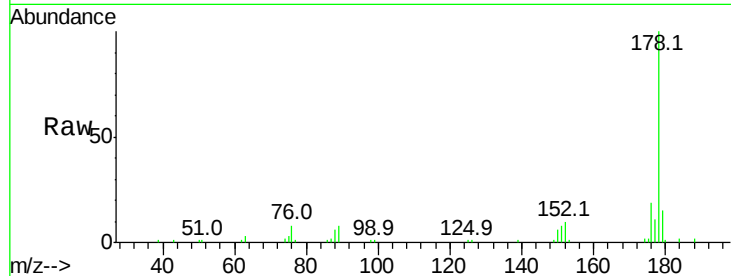
#70  
Phenanthrene  
Concen: 4.292 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. -0.01 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101617-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 15.8  | 23.8  |
| 179     | 15.4  | 13.0  | 19.6  |

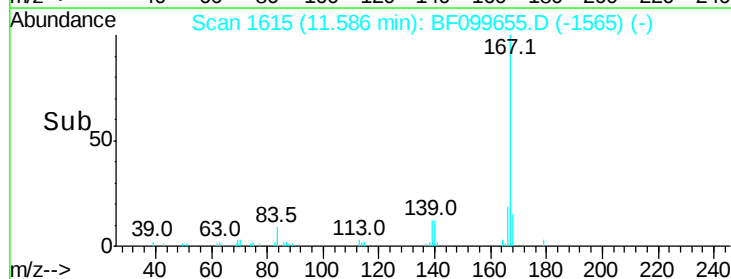
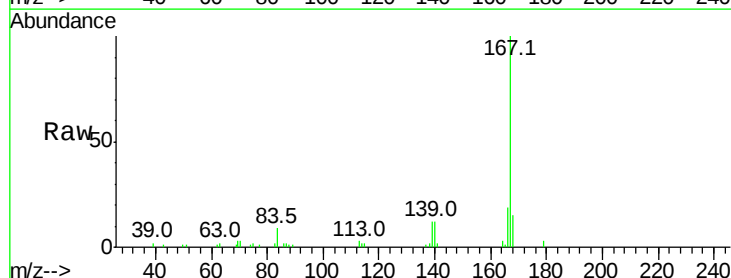
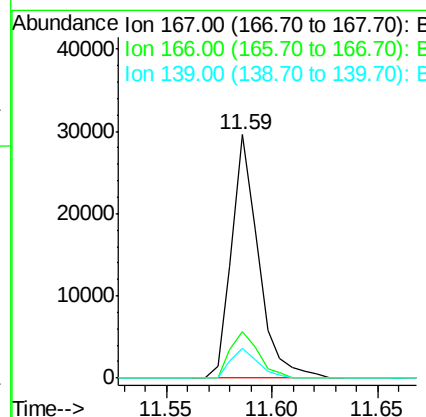
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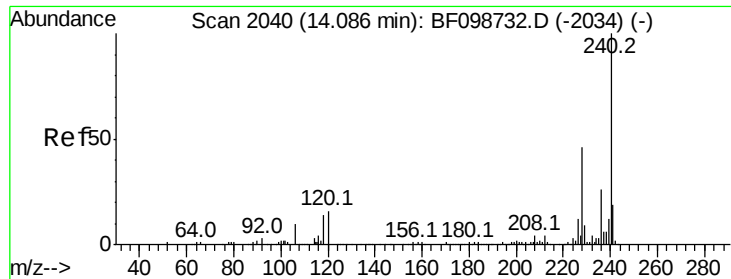
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#72  
Carbazole  
Concen: 2.707 ng  
RT: 11.59 min Scan# 1615  
Delta R.T. -0.01 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 19.3  | 17.6  | 26.4  |
| 139     | 12.2  | 10.9  | 16.3  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

Instrument :

BNA\_F

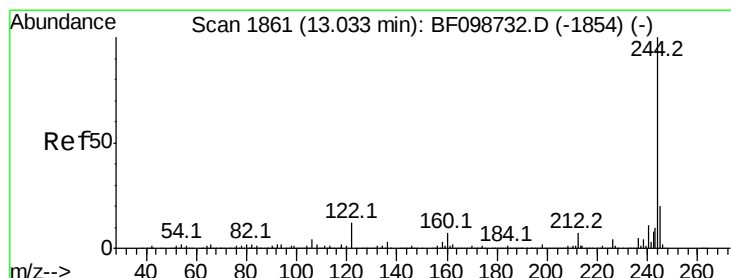
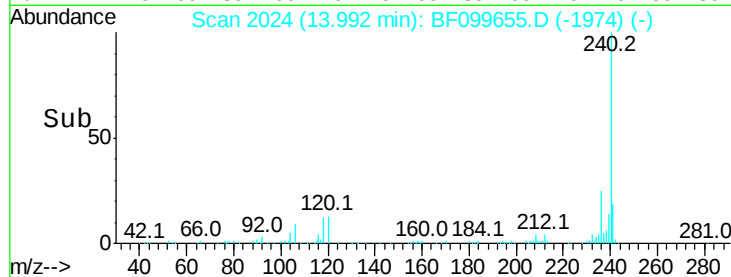
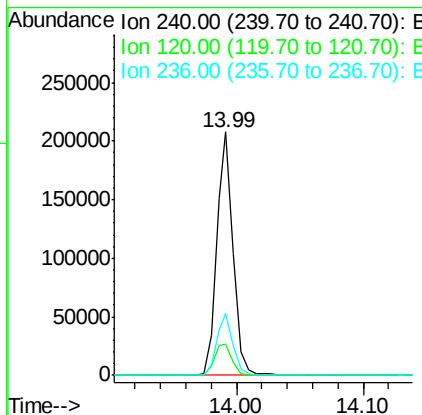
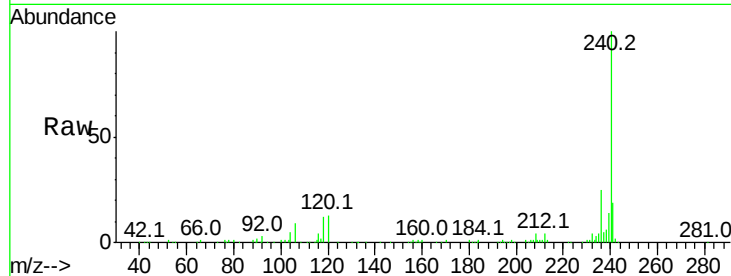
ClientSampleId :

CL-02-101617-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.0  | 9.5   | 14.3  |
| 236     | 25.2  | 20.7  | 31.1  |

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#78

Terphenyl-d14

Concen: 83.892 ng

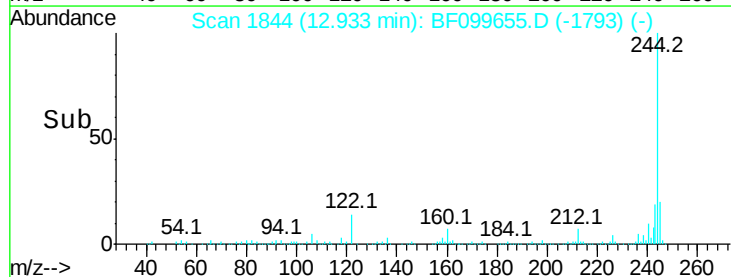
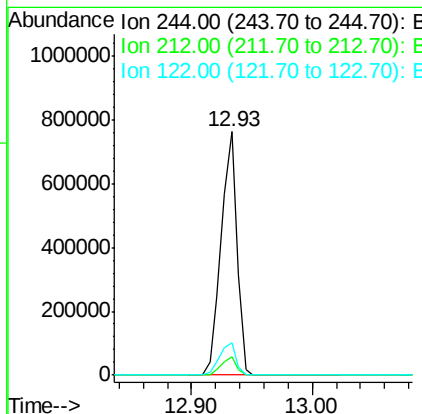
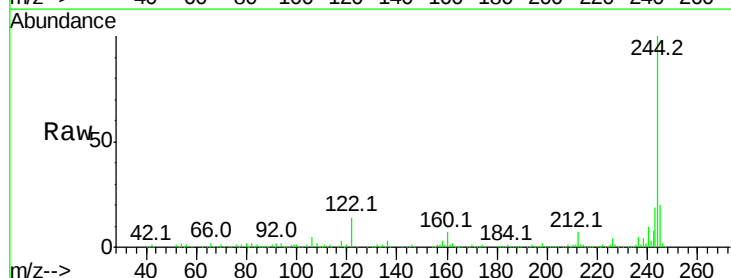
RT: 12.93 min Scan# 1844

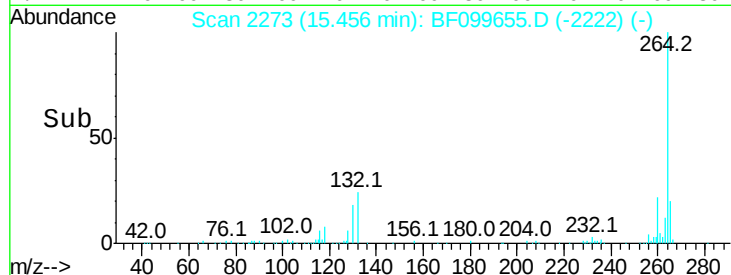
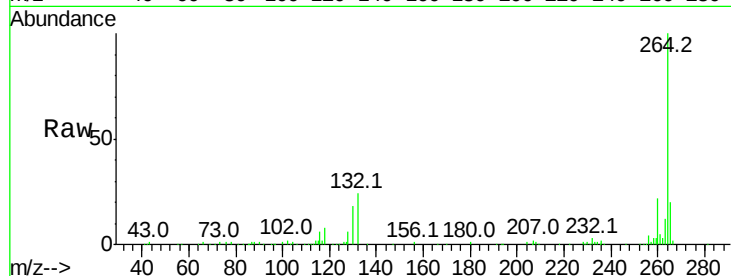
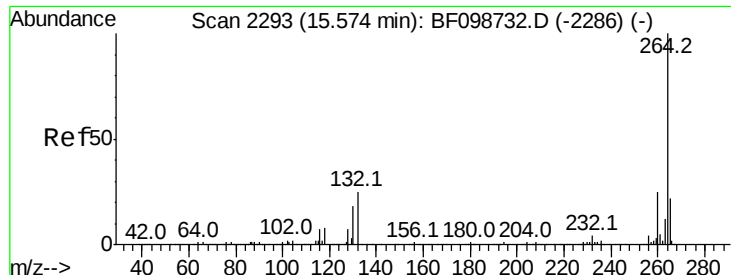
Delta R.T. 0.00 min

Lab File: BF099655.D

Acq: 19 Oct 2017 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 5.4   | 8.0   |
| 122     | 13.5  | 11.0  | 16.4  |





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: BF099655.D  
Acq: 19 Oct 2017 9:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101617-B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 264     | 100   |      |       |       |
| 260     | 22.1  | 19.2 | 28.8  |       |
| 265     | 20.4  | 17.5 | 26.3  |       |

Manual Integrations  
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