

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
 Data File : BF110728.D  
 Acq On : 13 Nov 2018 19:26  
 Operator : JU/SJ  
 Sample : J5925-15  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6S

Manual Integrations  
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 11/14/2018 1:52:21 PM

Quant Time: Nov 14 05:49:27 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 95421    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.23  | 136  | 372014   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10        | 9.98  | 164  | 157216   | 20.00  | ng    | -0.01       |
| 64) Phenanthrene-d10        | 11.48 | 188  | 231184   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12            | 14.13 | 240  | 166486   | 20.00  | ng    | -0.01       |
| 87) Perylene-d12            | 15.66 | 264  | 157383   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.57  | 112  | 810067   | 137.89 | ng    | 0.01        |
| 7) Phenol-d6                | 6.57  | 99   | 1028149  | 136.87 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 655111   | 101.41 | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol    | 10.78 | 330  | 192777   | 121.69 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl        | 9.30  | 172  | 1054284  | 95.77  | ng    | 0.00        |
| 79) Terphenyl-d14           | 13.06 | 244  | 655275   | 73.71  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.59  | 94   | 110393   | 12.673 | ng    | Qvalue # 66 |
| 31) Naphthalene             | 8.25  | 128  | 280830   | 16.080 | ng    | 99          |
| 37) 2-Methylnaphthalene     | 8.94  | 142  | 172580   | 15.074 | ng    | 98          |
| 38) 1-Methylnaphthalene     | 9.04  | 142  | 102527   | 9.312  | ng    | 100         |
| 50) Dimethylphthalate       | 9.69  | 163  | 129939   | 11.077 | ng    | 100         |
| 52) Acenaphthene            | 10.02 | 154  | 49165    | 5.113  | ng    | 96          |
| 55) Dibenzofuran            | 10.19 | 168  | 60179    | 4.277  | ng    | 93          |
| 58) Fluorene                | 10.53 | 166  | 39856    | 3.688  | ng    | 99          |
| 71) Phenanthrene            | 11.50 | 178  | 42630    | 3.442  | ng    | 99          |
| 88) Benzo(b)fluoranthene    | 15.20 | 252  | 27418m   | 2.912  | ng    |             |
| 90) Benzo(a)pyrene          | 15.59 | 252  | 18863    | 2.205  | ng    | 95          |

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

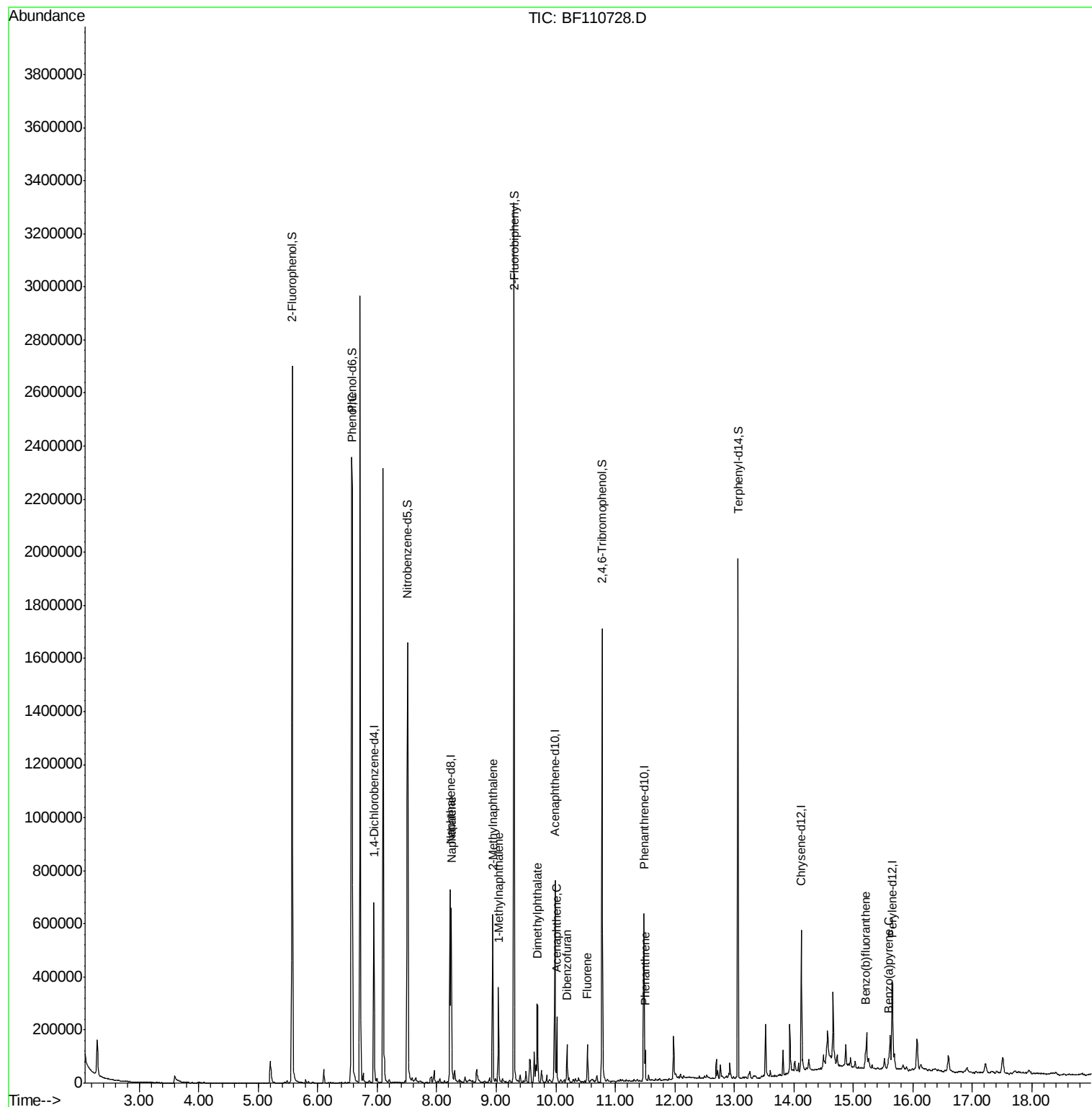
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110728.D  
Acq On : 13 Nov 2018 19:26  
Operator : JU/SJ  
Sample : J5925-15  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

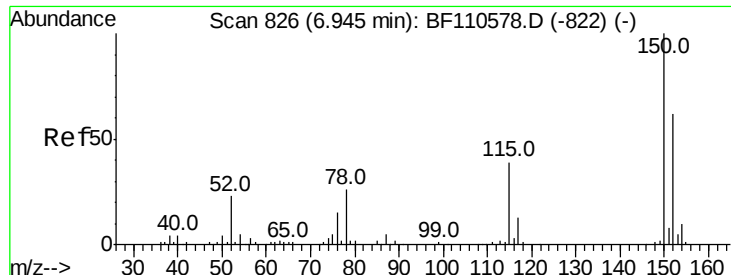
Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 12:43:10 2018  
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#1

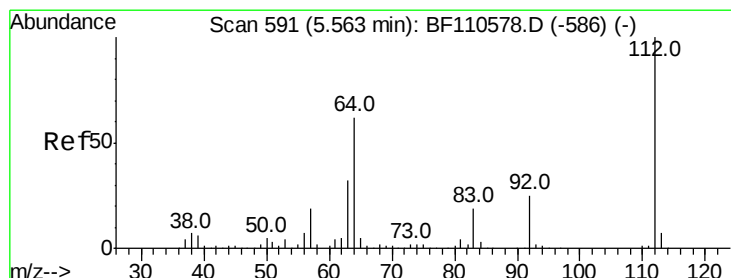
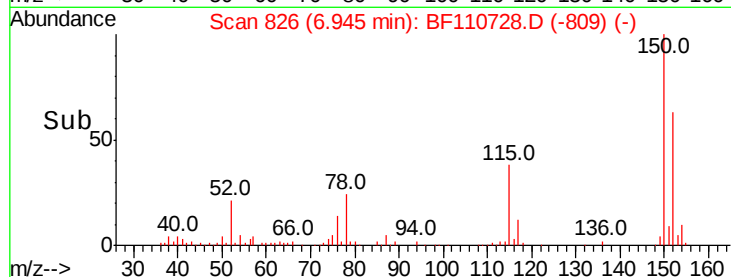
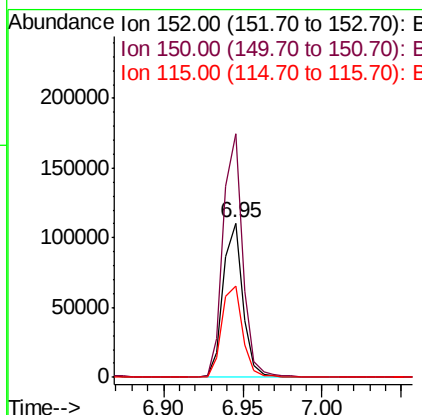
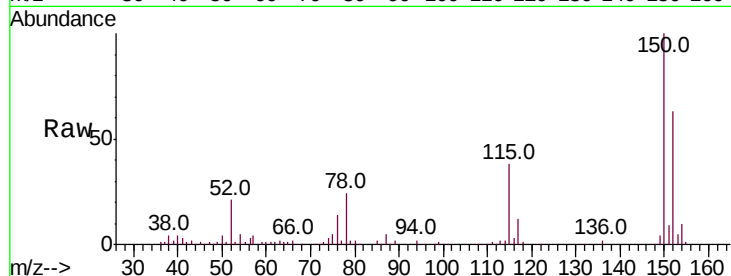
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 826  
Delta R.T. 0.00 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampled :  
TP-6S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.7 | 122.7 | 184.1 |
| 115     | 59.3  | 49.1  | 73.7  |

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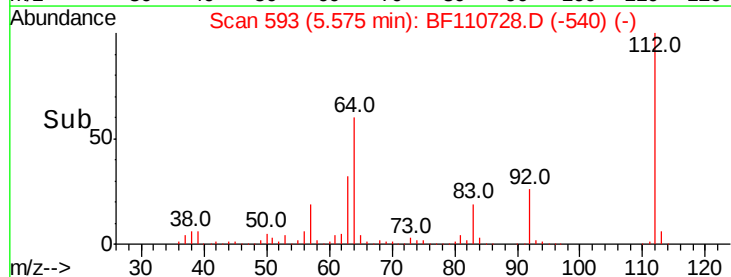
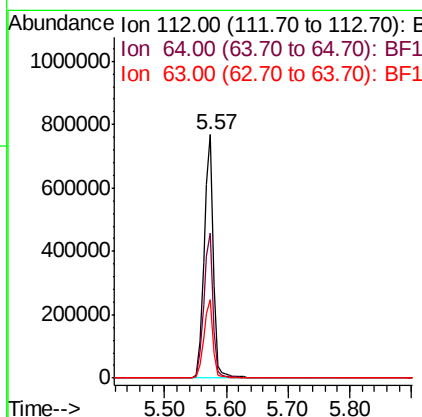
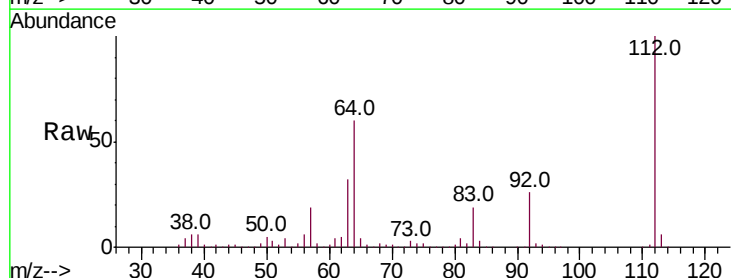
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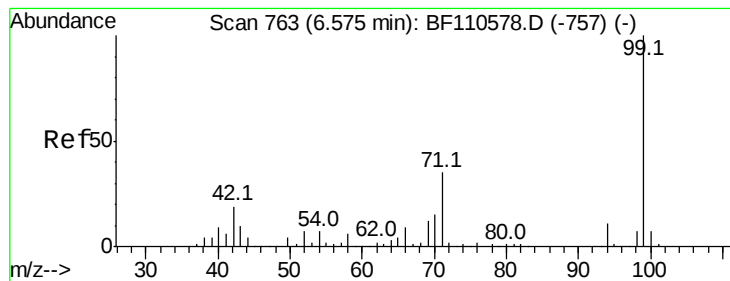


#5

2-Fluorophenol  
Concen: 137.895 ng  
RT: 5.57 min Scan# 593  
Delta R.T. 0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.8  | 44.1  | 66.1  |
| 63      | 32.1  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 136.865 ng

RT: 6.57 min Scan# 763

Delta R.T. 0.00 min

Lab File: BF110728.D

Acq: 13 Nov 2018 19:26

Instrument :

BNA\_F

ClientSampled :

TP-6S

Tot Ion: 99 Resp: 1028149

Ion Ratio Lower Upper

99 100

42 19.9 15.8 23.6

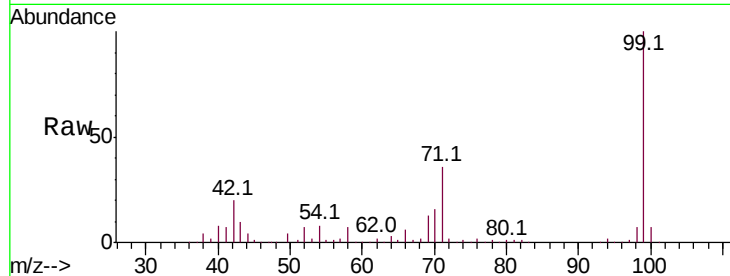
71 35.9 28.0 42.0

Manual Integrations

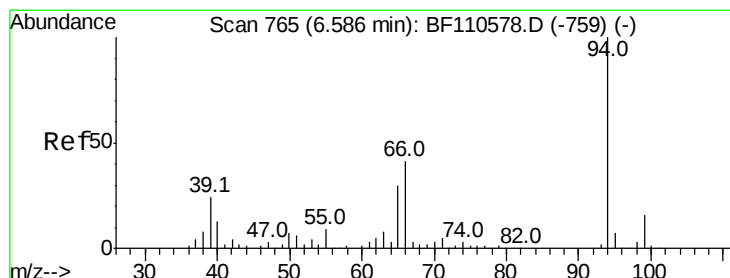
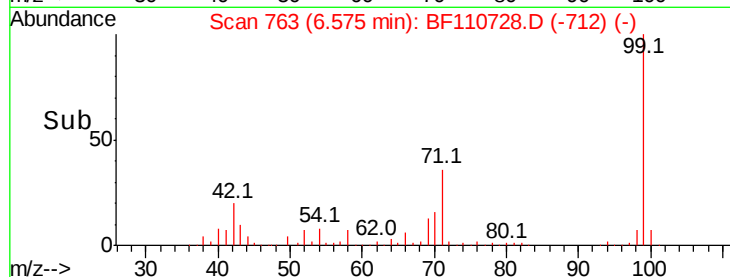
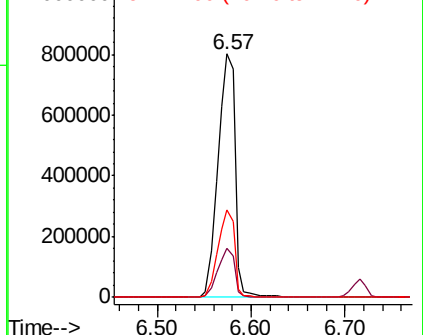
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 12.673 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.00 min

Lab File: BF110728.D

Acq: 13 Nov 2018 19:26

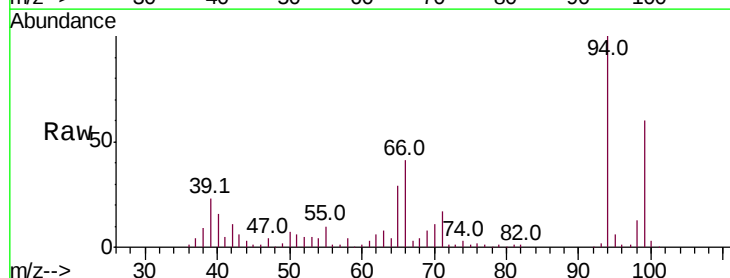
Tgt Ion: 94 Resp: 110393

Ion Ratio Lower Upper

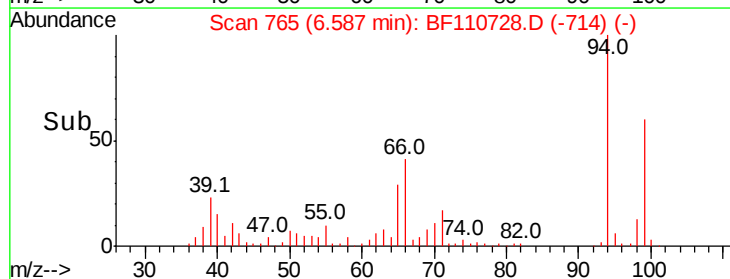
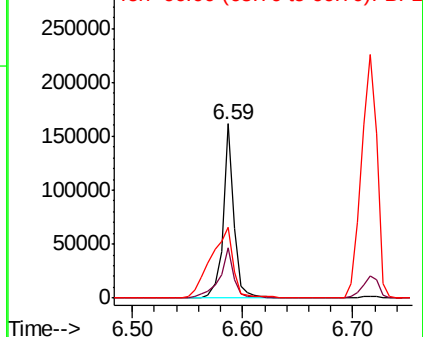
94 100

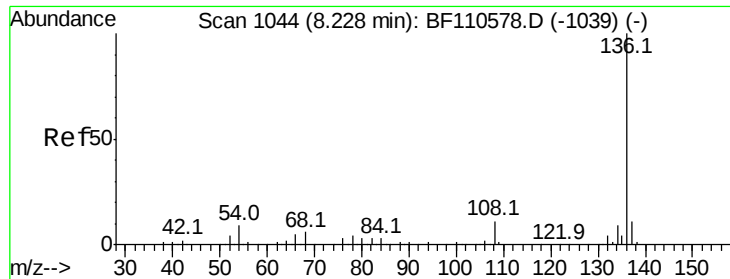
65 29.2 25.3 65.3

66 41.0 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





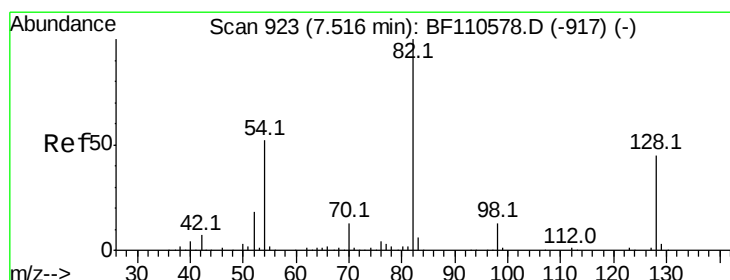
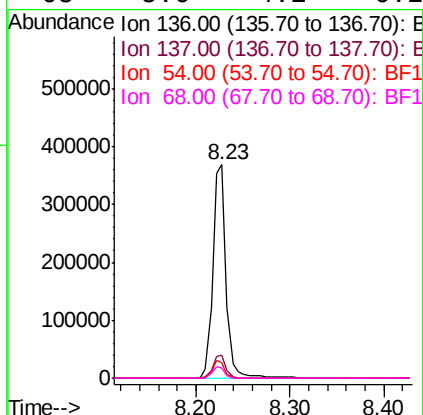
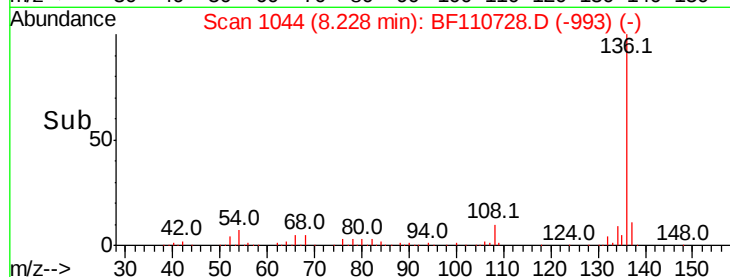
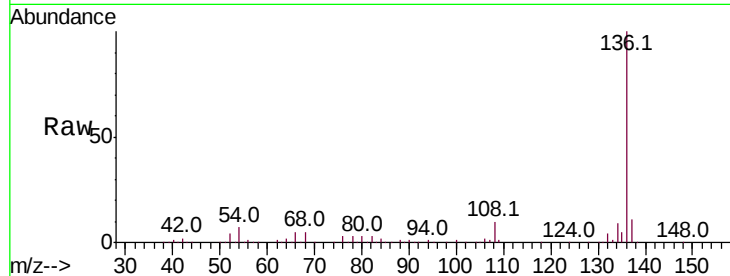
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.23 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.9  | 8.8  | 13.2  |       |
| 54      | 7.1   | 5.4  | 8.2   |       |
| 68      | 5.0   | 4.2  | 6.2   |       |

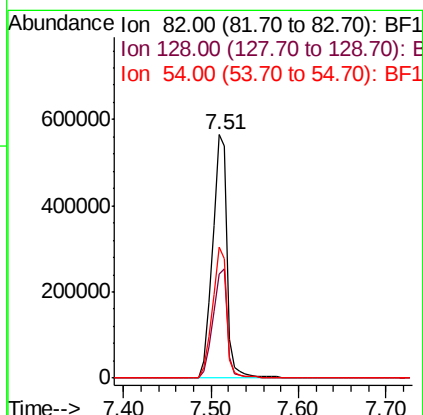
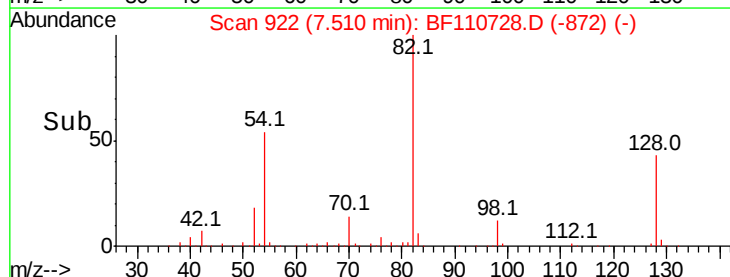
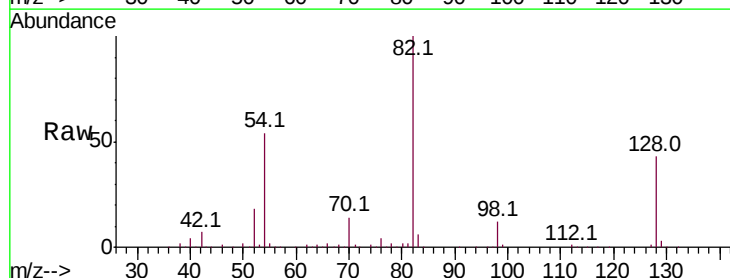
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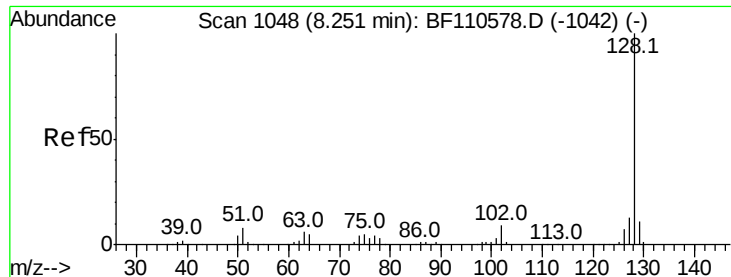
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#23  
Nitrobenzene-d5  
Concen: 101.414 ng  
RT: 7.51 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 42.7  | 34.2 | 51.2  |       |
| 54      | 53.6  | 38.6 | 58.0  |       |





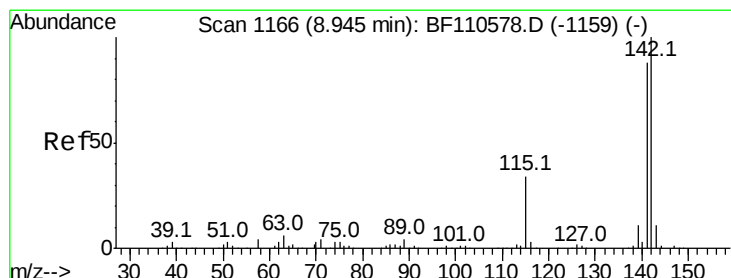
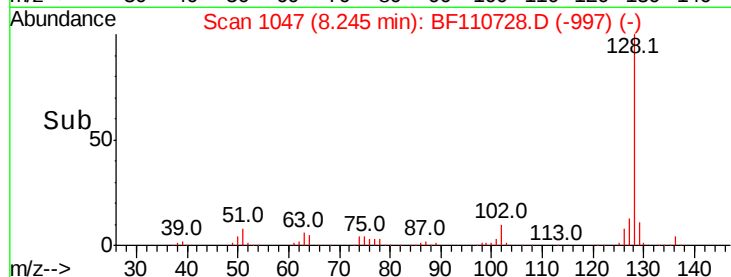
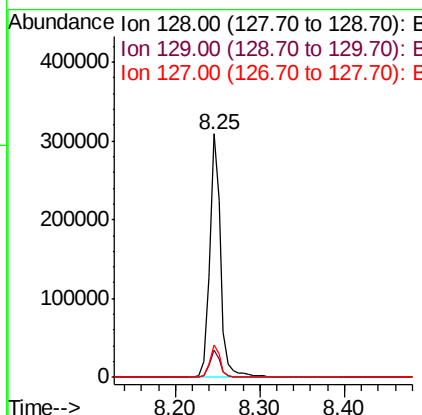
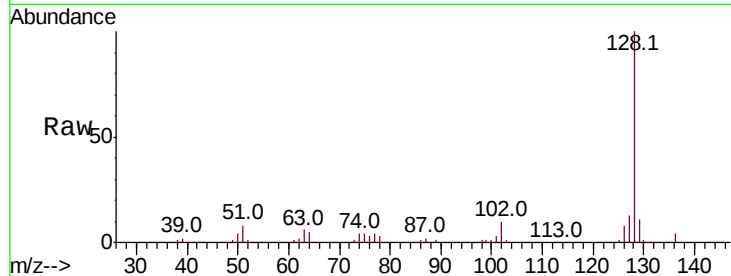
#31  
Naphthalene  
Concen: 16.080 ng  
RT: 8.25 min Scan# 1047  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 11.4  | 8.8  | 13.2  |       |
| 127     | 13.1  | 10.8 | 16.2  |       |

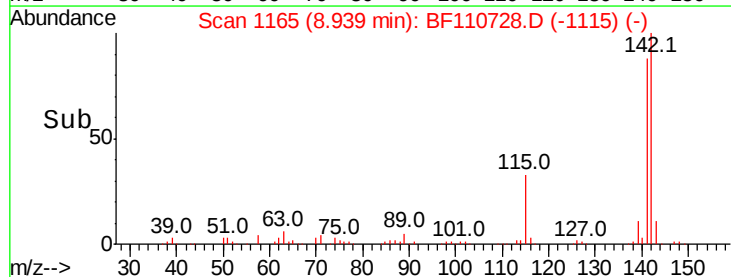
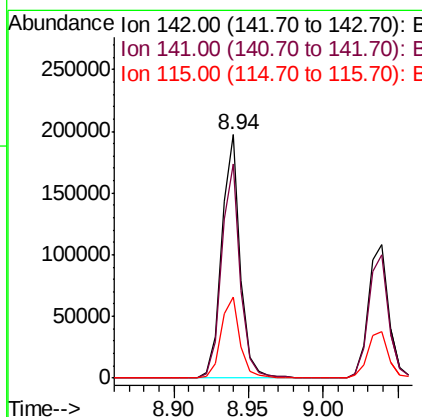
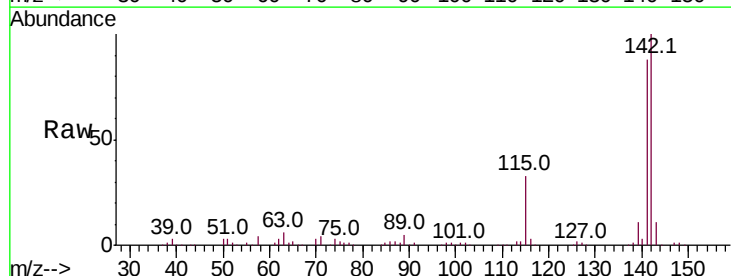
Manual Integrations  
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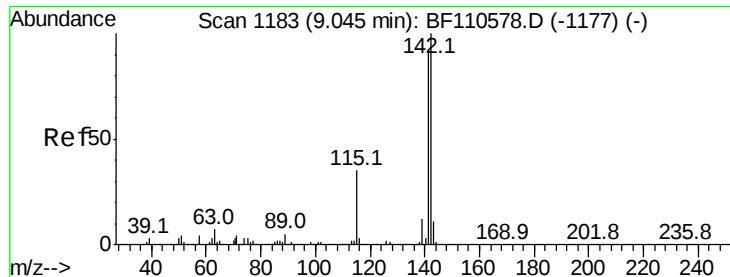
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#37  
2-Methylnaphthalene  
Concen: 15.074 ng  
RT: 8.94 min Scan# 1165  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 142     | 100   |      |       |       |
| 141     | 88.1  | 71.4 | 107.2 |       |
| 115     | 33.4  | 28.7 | 43.1  |       |





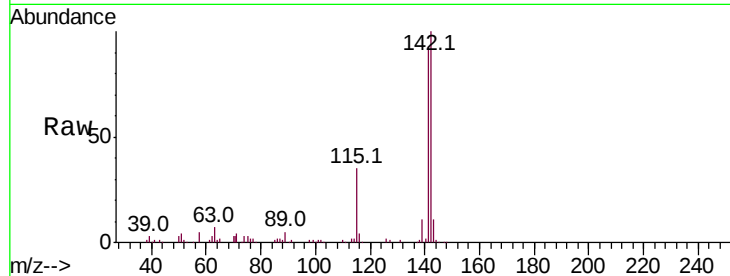
#38  
1-Methylnaphthalene  
Concen: 9.312 ng  
RT: 9.04 min Scan# 1182  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampled :  
TP-6S

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 142     | 100   |      |       |       |
| 141     | 92.8  | 74.2 | 111.4 |       |
| 116     | 3.6   | 2.6  | 4.0   |       |

Manual Integrations  
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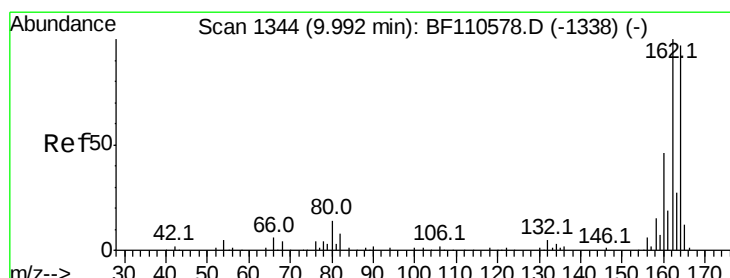
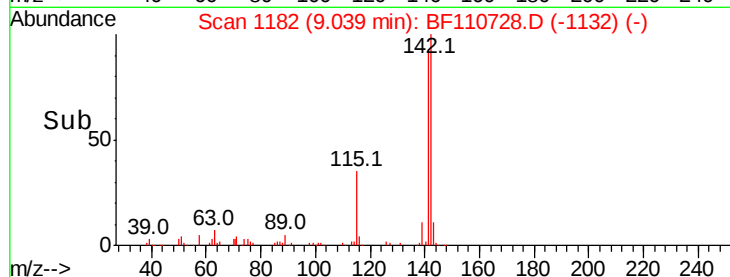
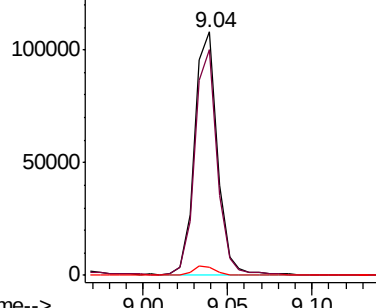


Abundance

Ion 142.00 (141.70 to 142.70): E

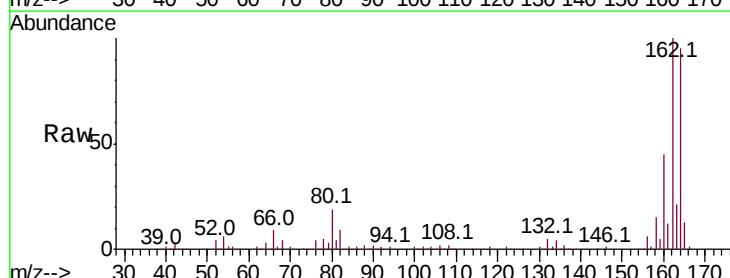
Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.98 min Scan# 1342  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.8 | 83.0 | 124.6 |       |
| 160     | 46.6  | 37.0 | 55.6  |       |

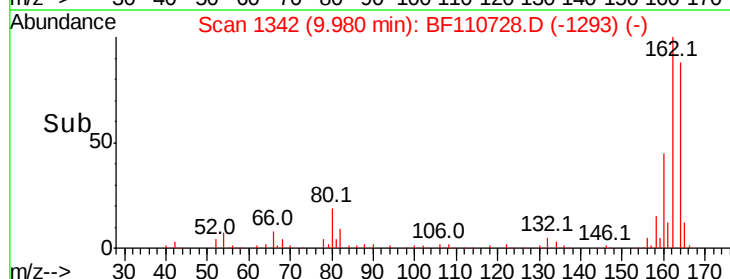
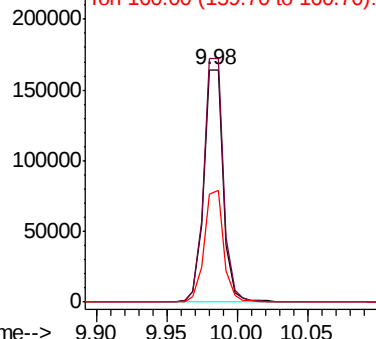


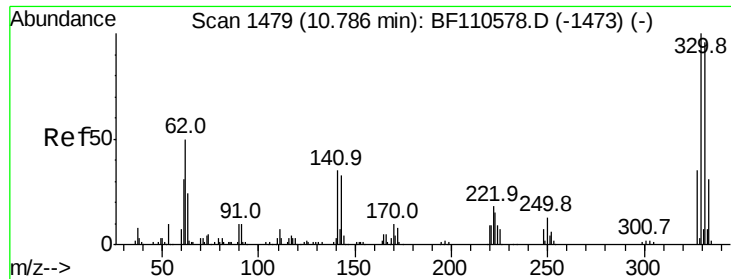
Abundance

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





#42

2,4,6-Tribromophenol

Concen: 121.691 ng

RT: 10.78 min Scan# 1478

Delta R.T. -0.01 min

Lab File: BF110728.D

Acq: 13 Nov 2018 19:26

Instrument :

BNA\_F

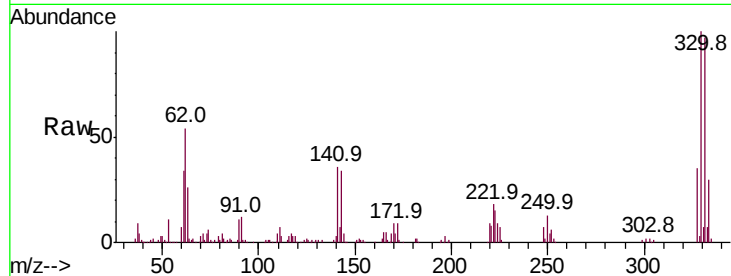
ClientSampled :

TP-6S

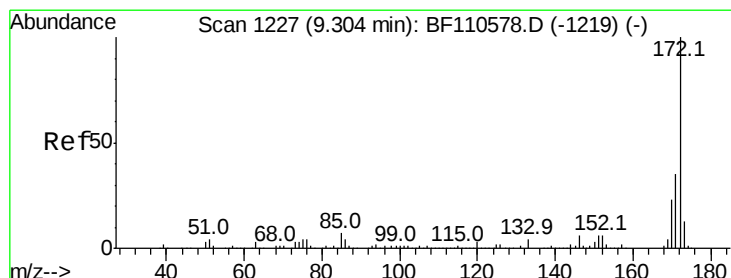
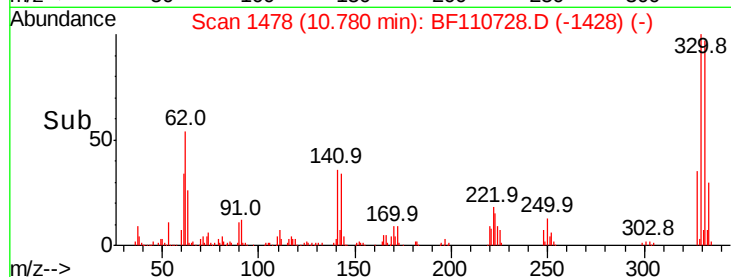
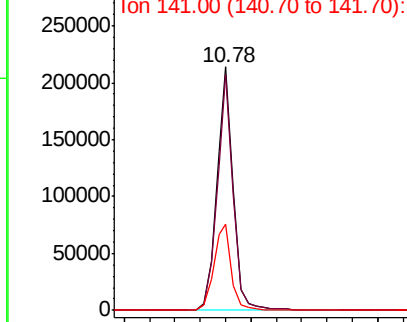
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 192777 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.5  | 77.1  | 115.7  |
| 141       | 38.3  | 27.0  | 40.4   |

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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



#45

2-Fluorobiphenyl

Concen: 95.773 ng

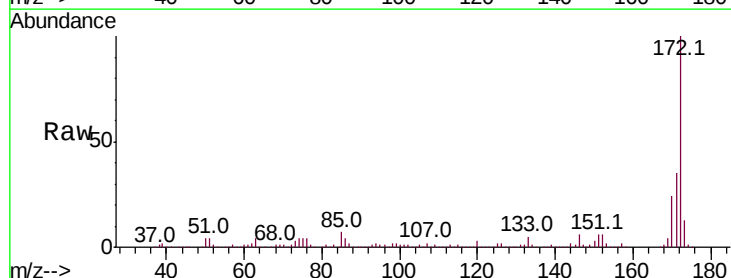
RT: 9.30 min Scan# 1226

Delta R.T. -0.01 min

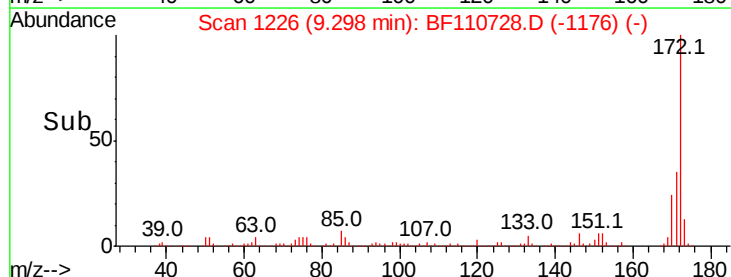
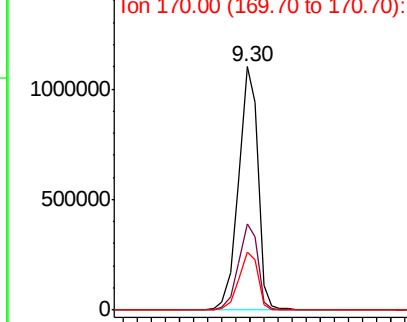
Lab File: BF110728.D

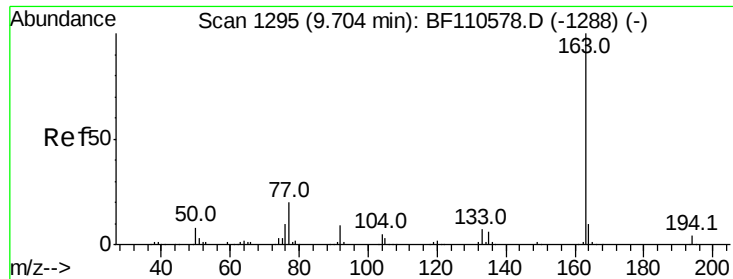
Acq: 13 Nov 2018 19:26

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1054284 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 35.5  | 28.6  | 43.0    |
| 170       | 23.8  | 19.7  | 29.5    |



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E





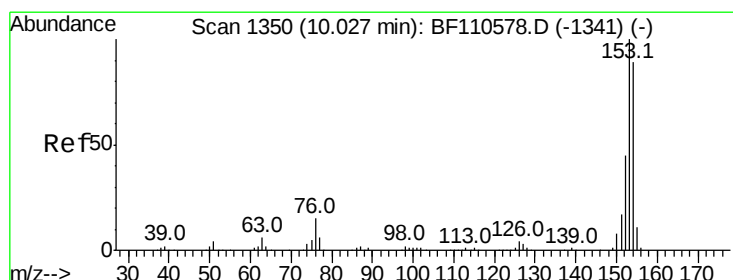
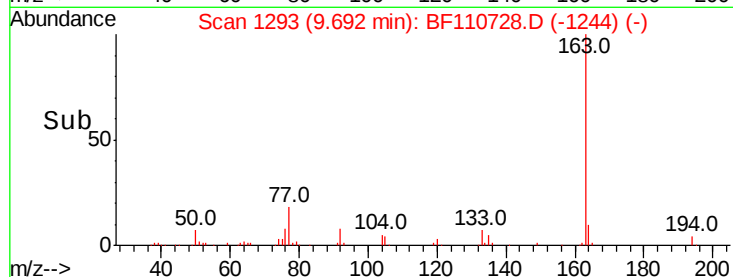
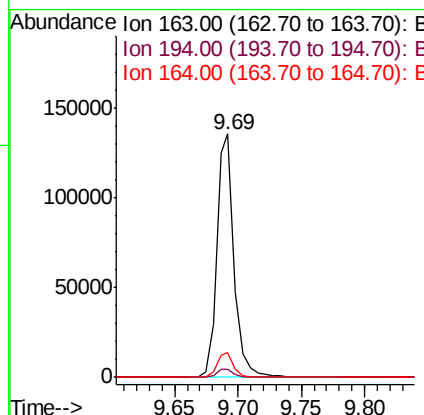
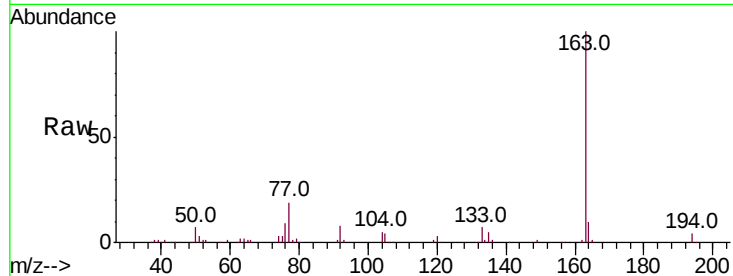
#50  
Dimethylphthalate  
Concen: 11.077 ng  
RT: 9.69 min Scan# 1293  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 129939 |       |       |
| 194     | 3.5   |        | 3.2   | 4.8   |
| 164     | 10.1  |        | 8.1   | 12.1  |

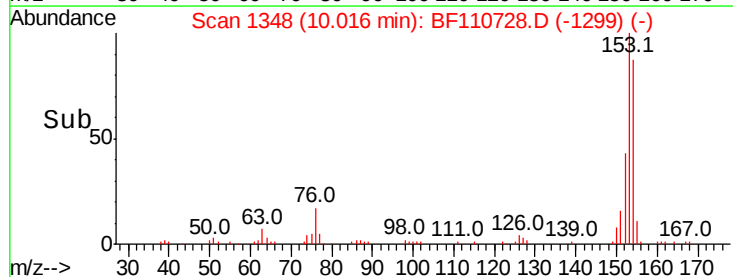
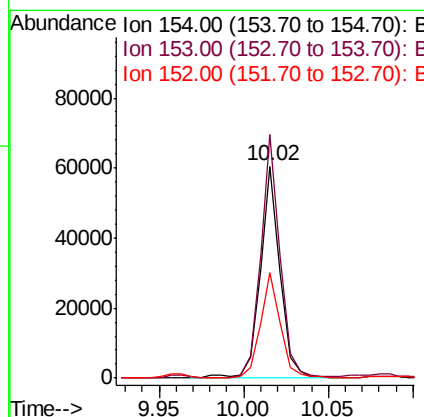
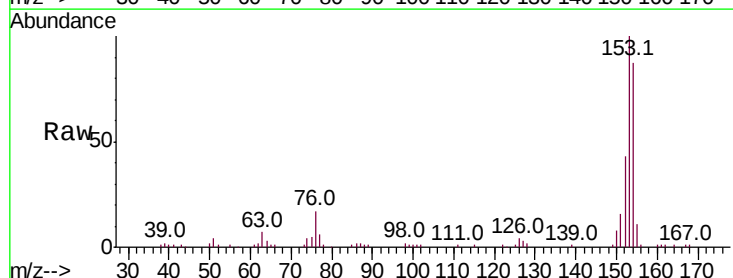
Manual Integrations  
APPROVED

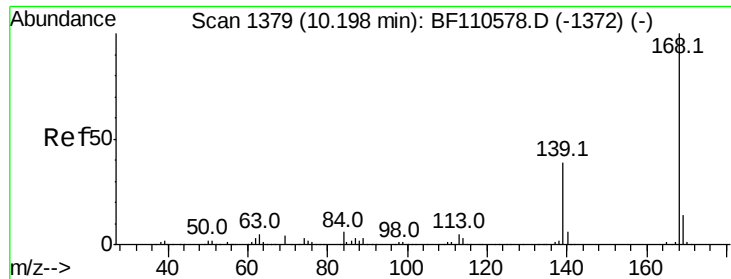
Sohil  
11/14/2018 1:52:21 PM



#52  
Acenaphthene  
Concen: 5.113 ng  
RT: 10.02 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 49165 |       |       |
| 153     | 114.8 |       | 90.1  | 135.1 |
| 152     | 49.6  |       | 43.4  | 65.2  |





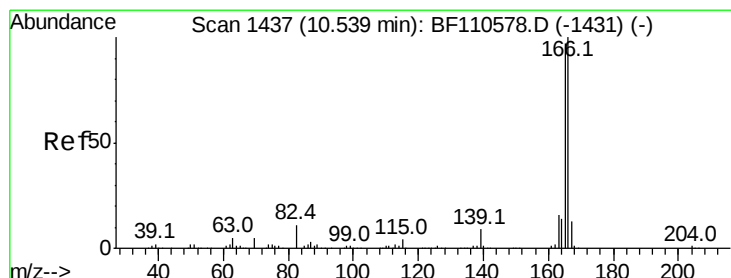
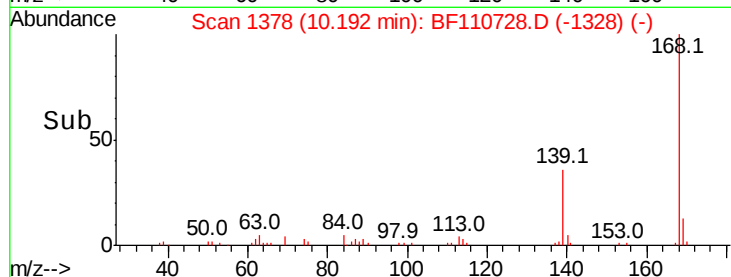
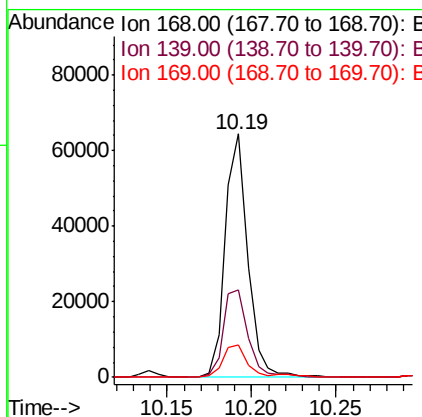
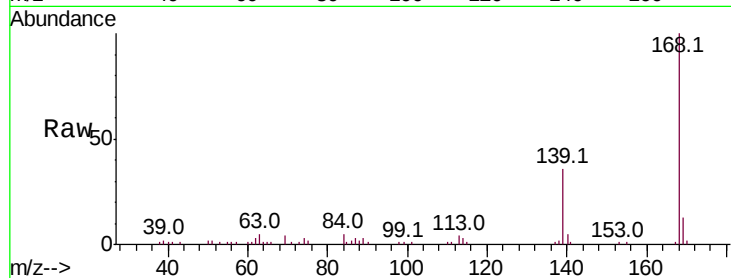
#55  
Dibenzenofuran  
Concen: 4.277 ng  
RT: 10.19 min Scan# 1378  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 35.9  | 33.0  | 49.6  |
| 169     | 13.3  | 11.3  | 16.9  |

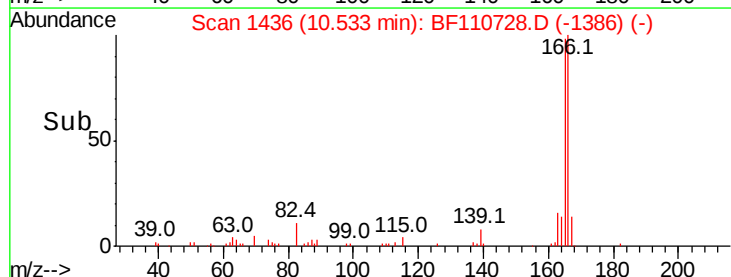
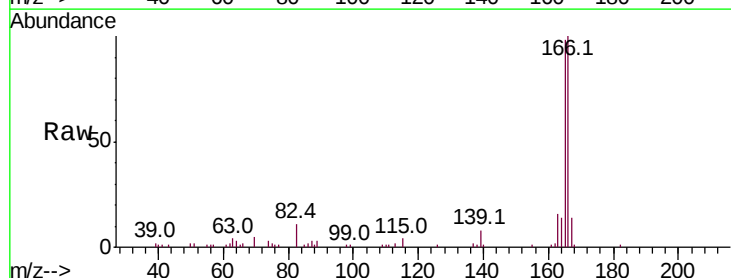
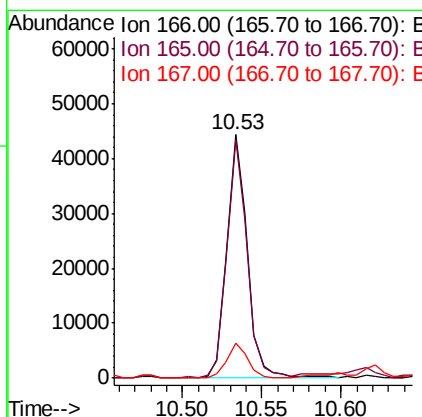
Manual Integrations  
APPROVED

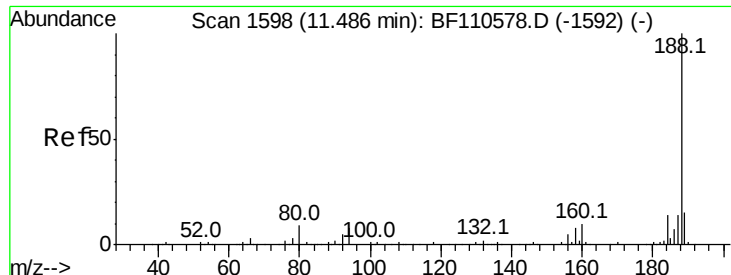
Sohil  
11/14/2018 1:52:21 PM



#58  
Fluorene  
Concen: 3.688 ng  
RT: 10.53 min Scan# 1436  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.8  | 78.6  | 117.8 |
| 167     | 14.2  | 10.8  | 16.2  |





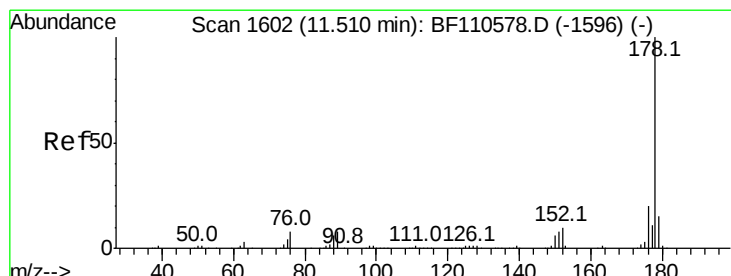
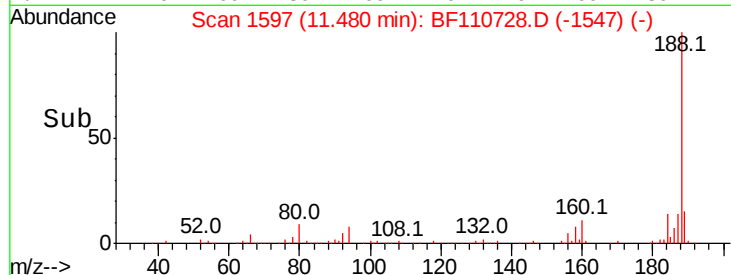
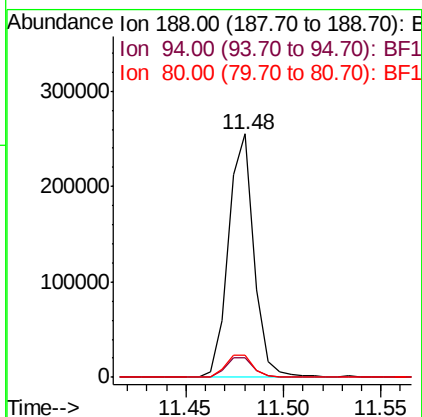
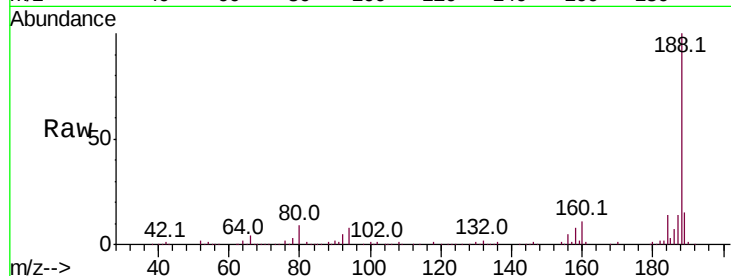
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.48 min Scan# 1597  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 231184 |       |       |
| 94      | 8.3   | 7.2    | 10.8  |       |
| 80      | 8.9   | 7.9    | 11.9  |       |

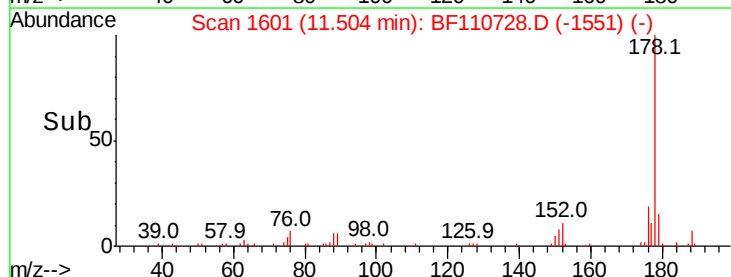
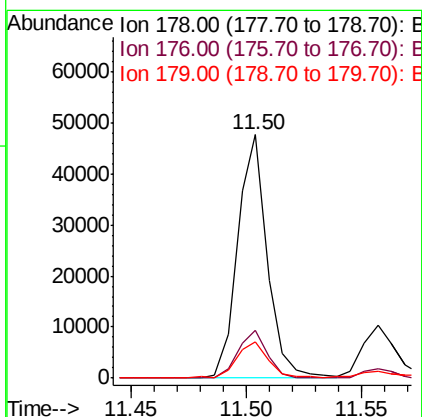
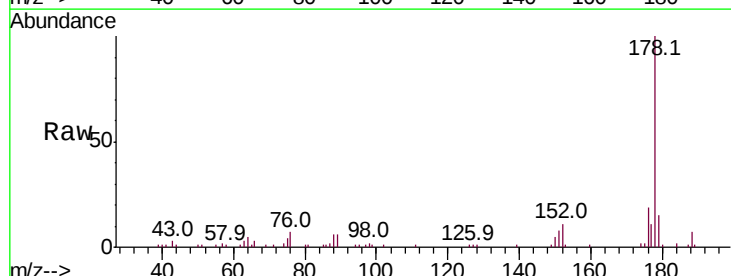
Manual Integrations  
APPROVED

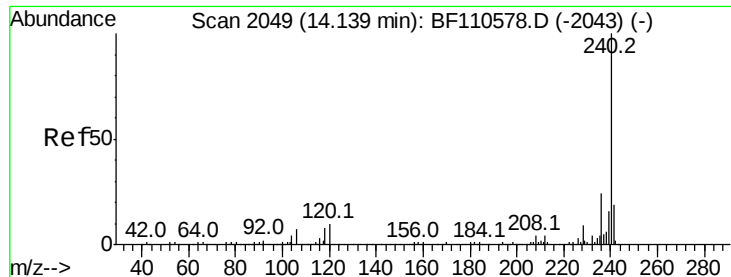
Sohil  
11/14/2018 1:52:21 PM



#71  
Phenanthrene  
Concen: 3.442 ng  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 42630 |       |       |
| 176     | 19.4  | 15.5  | 23.3  |       |
| 179     | 15.0  | 12.5  | 18.7  |       |





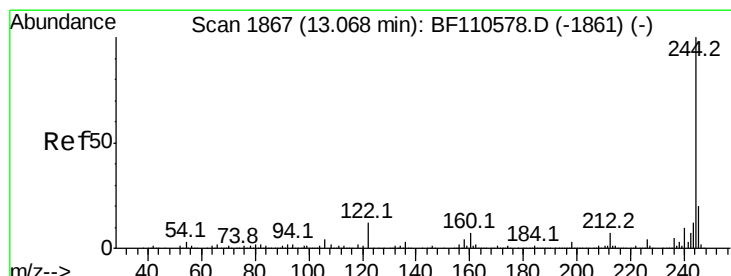
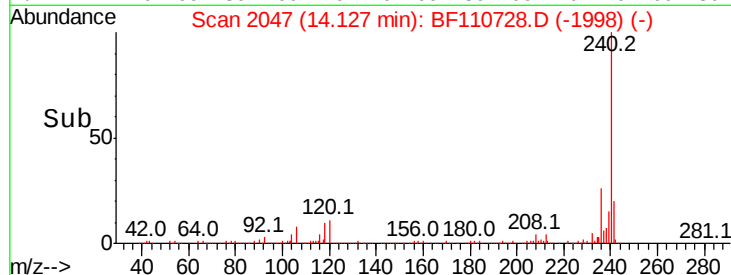
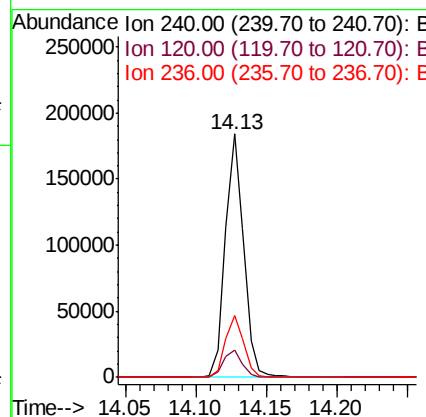
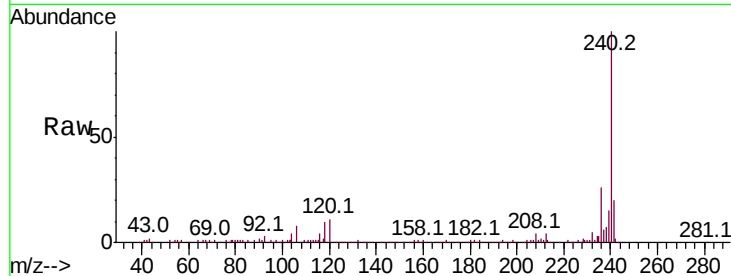
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.13 min Scan# 2047  
 Delta R.T. -0.01 min  
 Lab File: BF110728.D  
 Acq: 13 Nov 2018 19:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-6S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.2  | 8.3   | 12.5  |
| 236     | 25.6  | 21.2  | 31.8  |

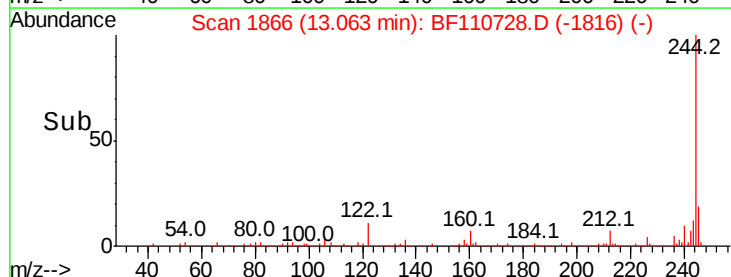
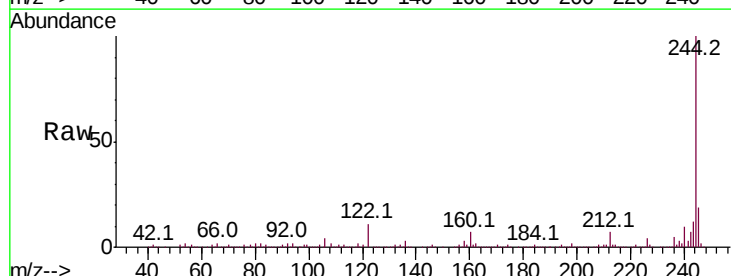
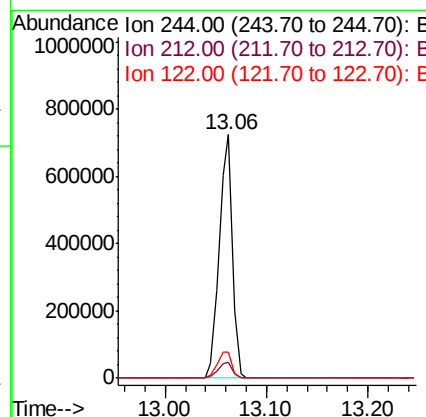
Manual Integrations  
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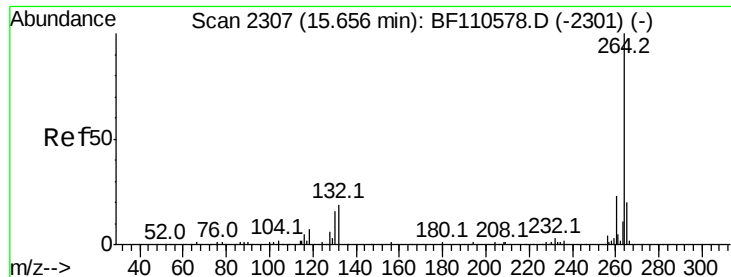
Sohil  
 11/14/2018 1:52:21 PM



#79  
 Terphenyl-d14  
 Concen: 73.710 ng  
 RT: 13.06 min Scan# 1866  
 Delta R.T. -0.01 min  
 Lab File: BF110728.D  
 Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.8   | 8.8   |
| 122     | 10.6  | 8.7   | 13.1  |





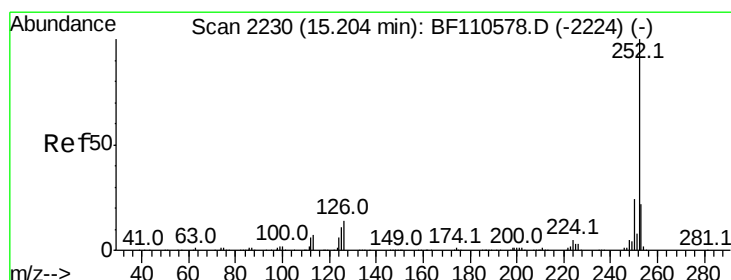
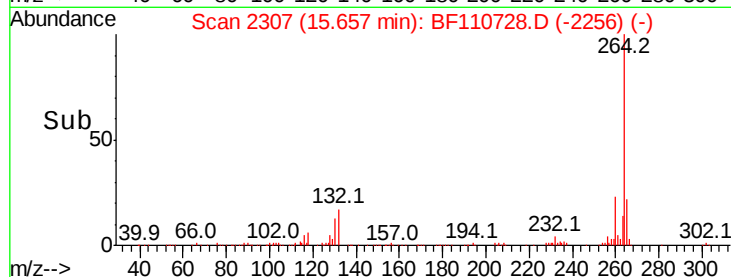
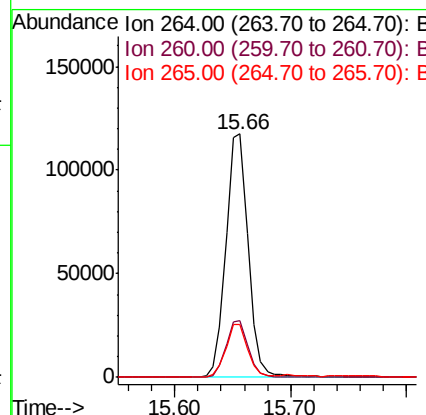
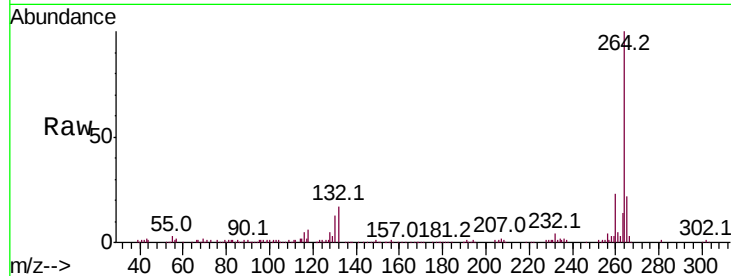
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.66 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.7  | 28.1  |
| 265     | 21.7  | 16.7  | 25.1  |

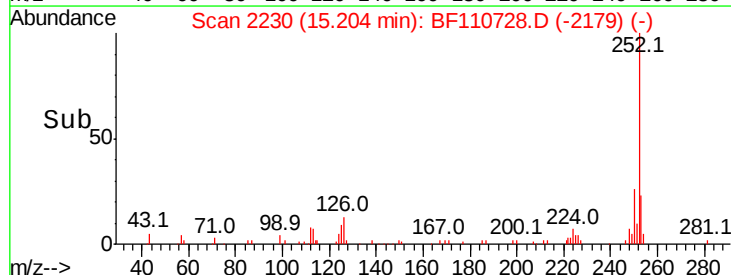
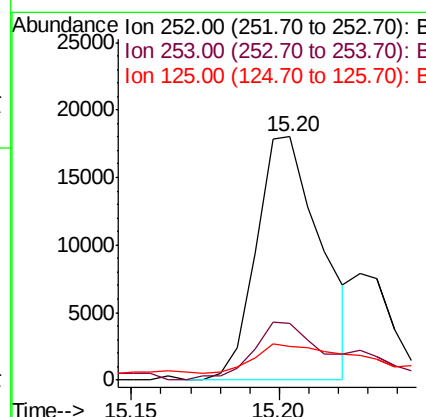
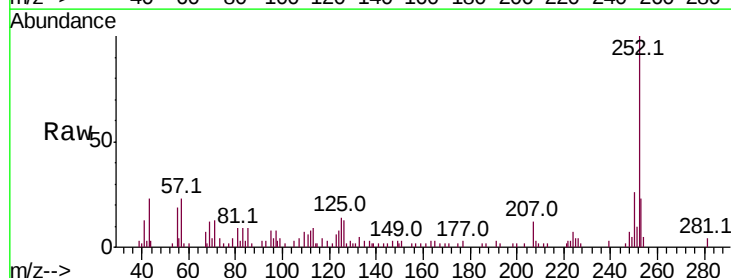
Manual Integrations  
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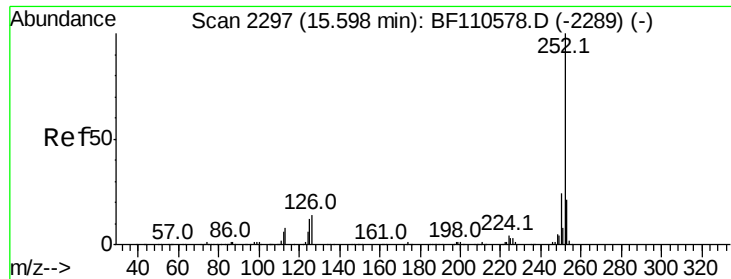
Sohil  
11/14/2018 1:52:21 PM



#88  
Benzo(b)fluoranthene  
Concen: 2.912 ng m  
RT: 15.20 min Scan# 2230  
Delta R.T. 0.00 min  
Lab File: BF110728.D  
Acq: 13 Nov 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.2  | 25.8  |
| 125     | 13.7  | 8.2   | 12.4# |





#90

Benzo(a)pyrene

Concen: 2.205 ng

RT: 15.59 min Scan# 2296

Delta R.T. -0.01 min

Lab File: BF110728.D

Acq: 13 Nov 2018 19:26

Instrument :

BNA\_F

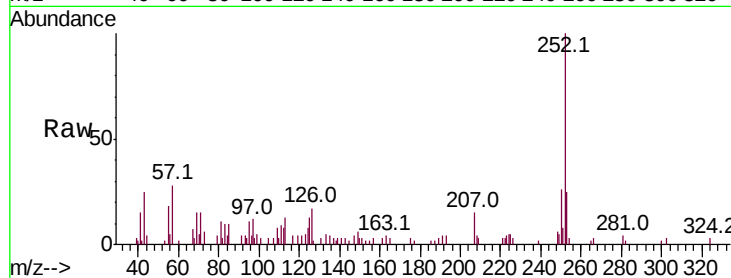
ClientSampleId :

TP-6S

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 18863 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.0  | 18.2  | 27.4  |
| 125       | 13.4  | 9.0   | 13.6  |

Manual Integrations  
APPROVED

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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

