

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
 Data File : BF111633.D  
 Acq On : 20 Dec 2018 12:21  
 Operator : JU/SJ  
 Sample : J6490-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11929

Manual Integrations  
 APPROVED

Sohil  
 12/21/2018 2:46:34 PM

Quant Time: Dec 20 14:13:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 195922   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.17  | 136  | 745038   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.93  | 164  | 373235   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.42 | 188  | 654103   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.04 | 240  | 462146   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.52 | 264  | 490758   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 1188461  | 103.40 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 1566856  | 107.11 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 974828   | 76.16  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.72 | 330  | 430149   | 97.54  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.26  | 172  | 1879767  | 73.41  | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.00 | 244  | 1620359  | 66.49  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.53  | 94   | 65842    | 3.989  | ng    | 99       |
| 50) Dimethylphthalate          | 9.64  | 163  | 139275   | 5.103  | ng    | 97       |
| 71) Phenanthrene               | 11.44 | 178  | 125138   | 3.607  | ng    | 94       |
| 75) Fluoranthene               | 12.62 | 202  | 169770   | 4.833  | ng    | 94       |
| 78) Pyrene                     | 12.85 | 202  | 132230   | 4.052  | ng    | 94       |
| 81) Benzo(a)anthracene         | 14.03 | 228  | 74149    | 2.811  | ng    | 97       |
| 83) Chrysene                   | 14.07 | 228  | 62196    | 2.399  | ng    | 92       |
| 84) Bis(2-ethylhexyl)phthalate | 14.03 | 149  | 58537    | 3.493  | ng    | # 97     |
| 88) Benzo(b)fluoranthene       | 15.09 | 252  | 75059m   | 2.617  | ng    |          |
| 90) Benzo(a)pyrene             | 15.46 | 252  | 53904    | 2.069  | ng    | # 95     |

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

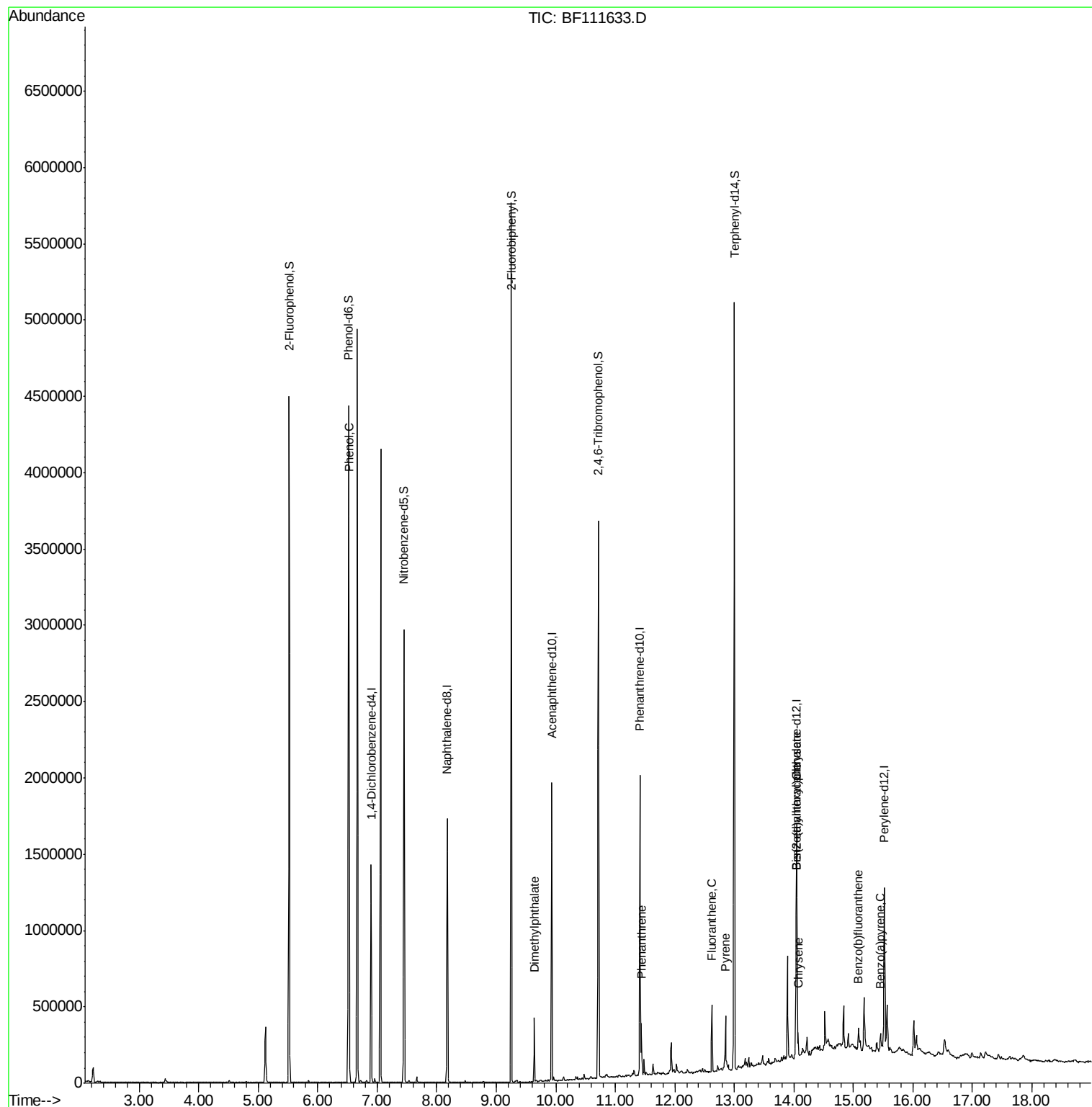
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111633.D  
Acq On : 20 Dec 2018 12:21  
Operator : JU/SJ  
Sample : J6490-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

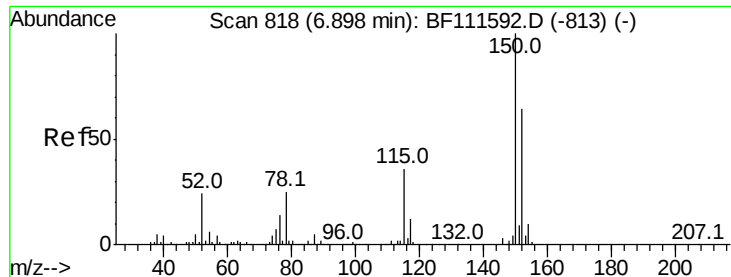
Instrument :  
BNA\_F  
ClientSampleId :  
72-11929

Manual Integrations  
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Quant Time: Dec 20 14:13:04 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 19 17:39:39 2018  
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#1

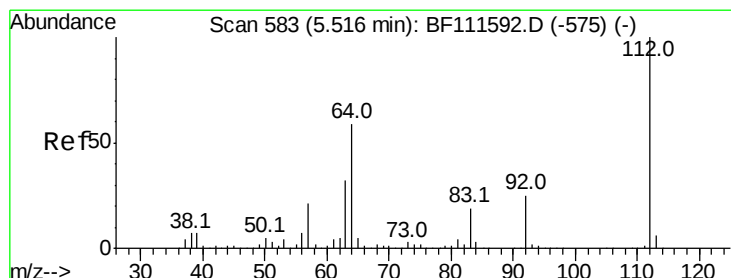
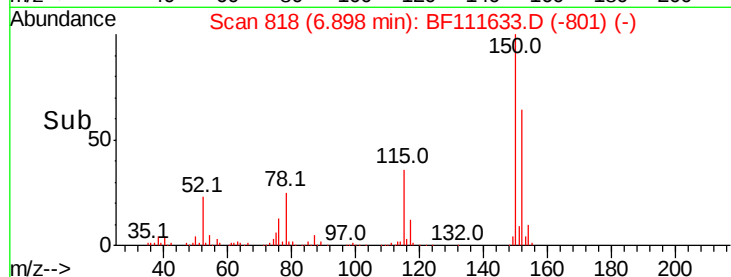
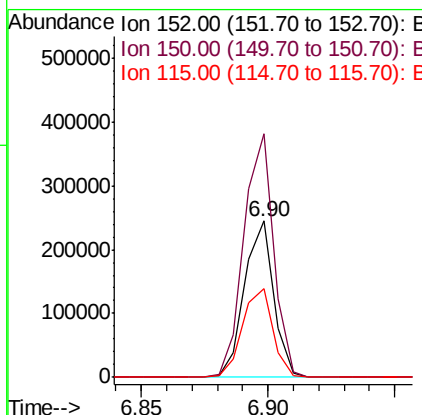
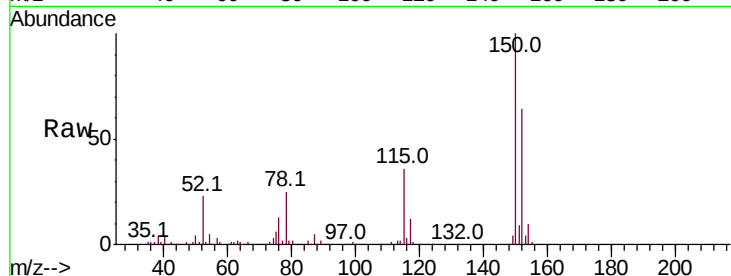
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

Instrument :  
BNA\_F  
ClientSampleId :  
72-11929

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.1 | 126.6 | 189.8 |
| 115     | 56.7  | 50.7  | 76.1  |

Manual Integrations  
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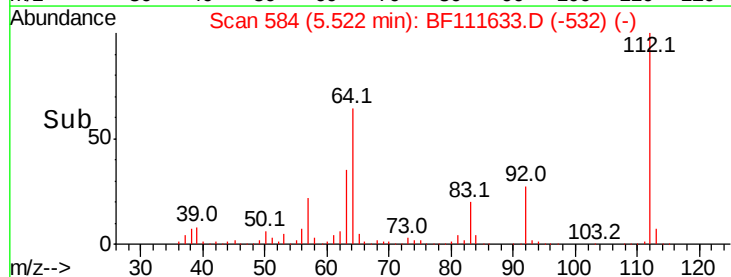
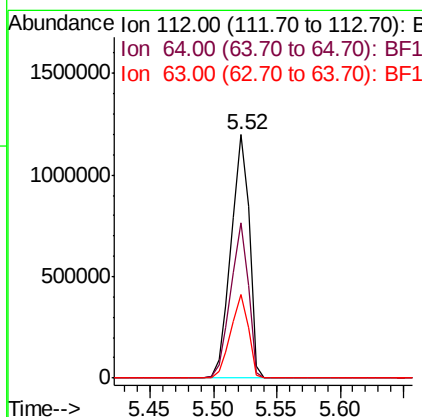
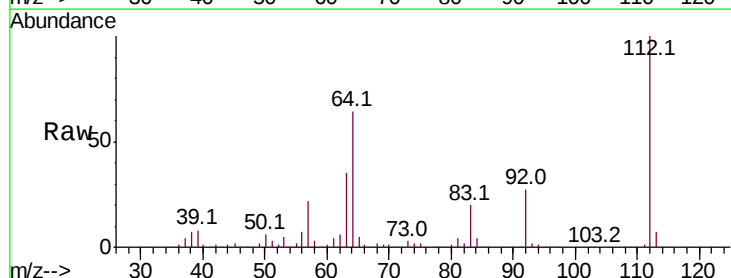
Sohil  
12/21/2018 2:46:34 PM

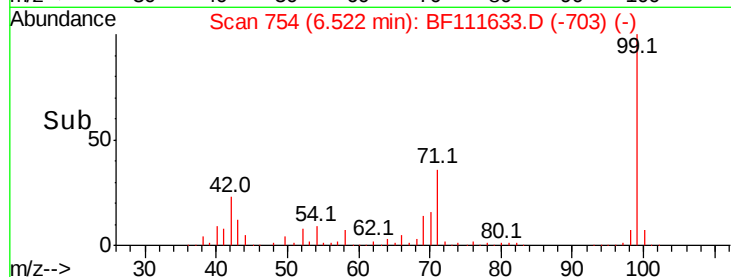
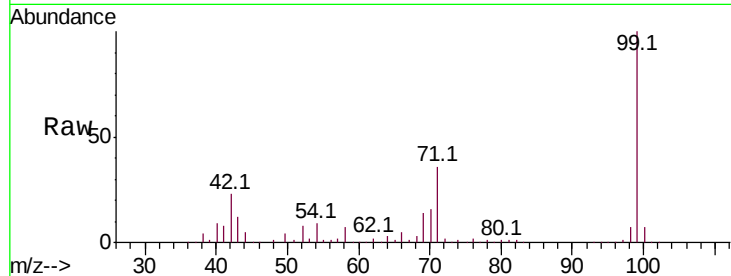
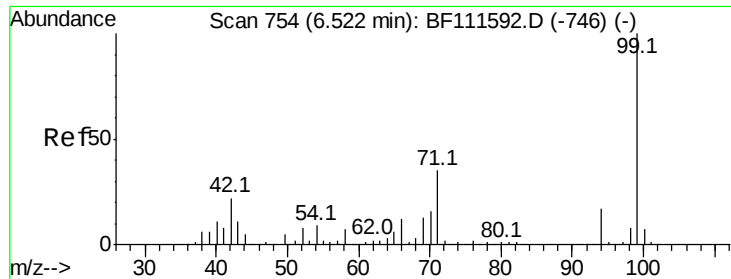


#5

2-Fluorophenol  
Concen: 103.397 ng  
RT: 5.52 min Scan# 584  
Delta R.T. 0.01 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.0  | 51.8  | 77.6  |
| 63      | 34.5  | 26.8  | 40.2  |





#7

Phenol-d6

Concen: 107.113 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

Tot Ion: 99 Resp: 1566856

Ion Ratio Lower Upper

99 100

42 23.2 17.4 26.0

71 36.4 26.1 39.1

Instrument :

BNA\_F

ClientSampled :

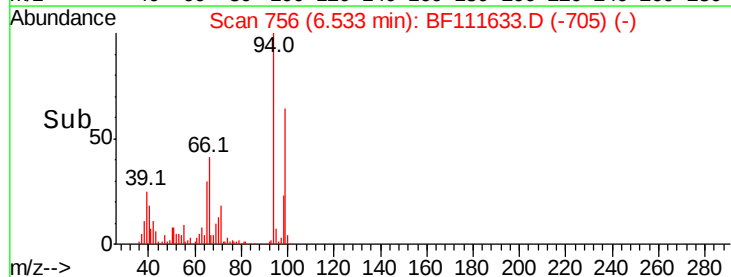
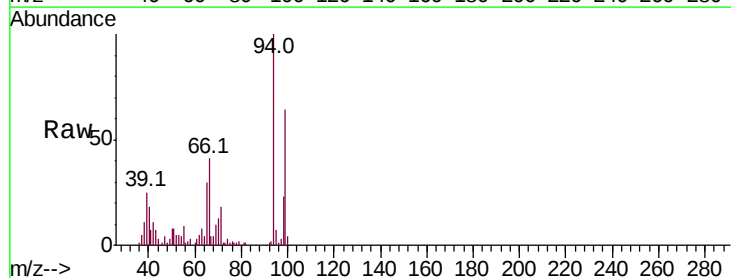
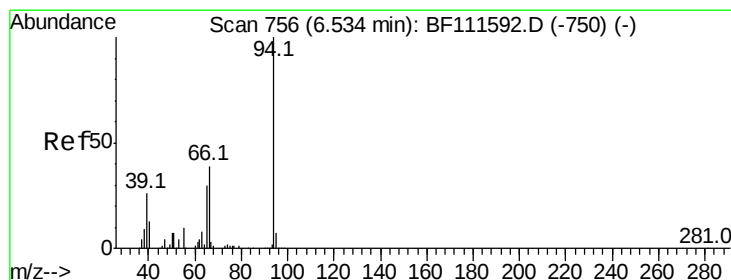
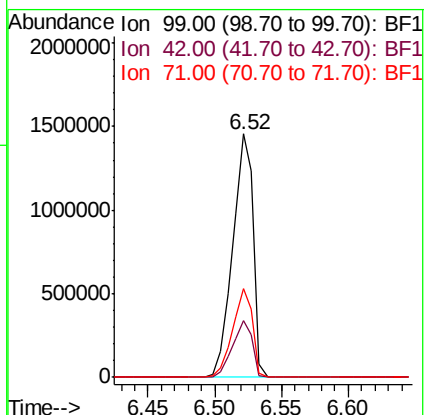
72-11929

Manual Integrations

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#10

Phenol

Concen: 3.989 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.00 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

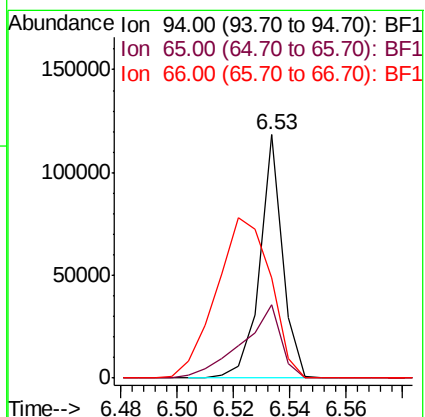
Tgt Ion: 94 Resp: 65842

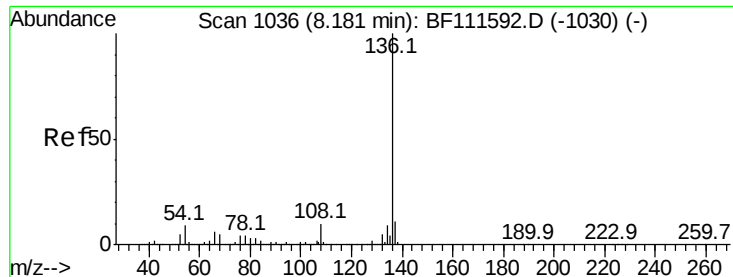
Ion Ratio Lower Upper

94 100

65 29.9 11.7 51.7

66 41.1 21.0 61.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

Instrument :

BNA\_F

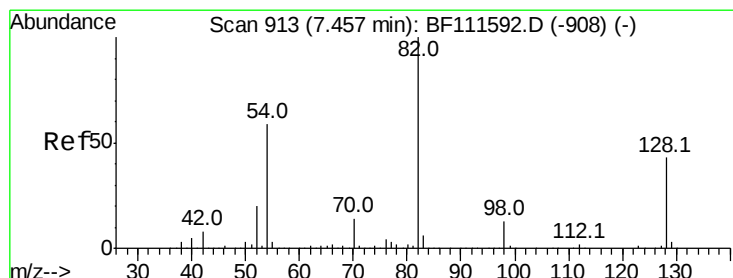
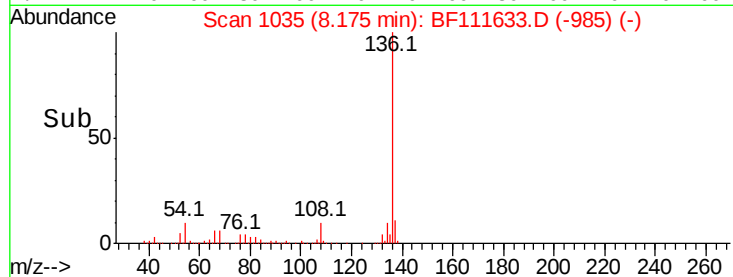
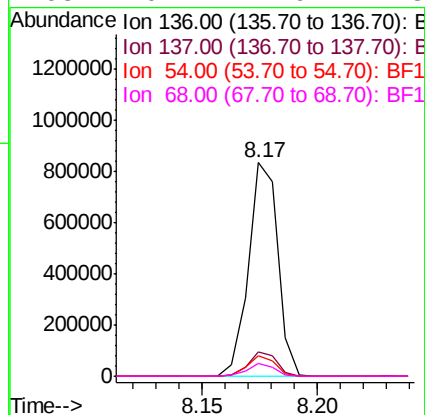
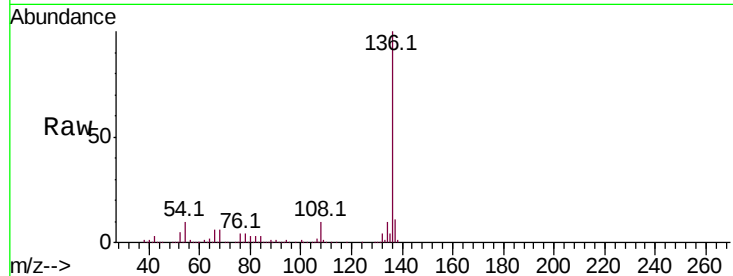
ClientSampleId :

72-11929

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.3  | 9.1  | 13.7  |       |
| 54      | 9.7   | 7.7  | 11.5  |       |
| 68      | 6.1   | 4.9  | 7.3   |       |

Manual Integrations  
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#23

Nitrobenzene-d5

Concen: 76.161 ng

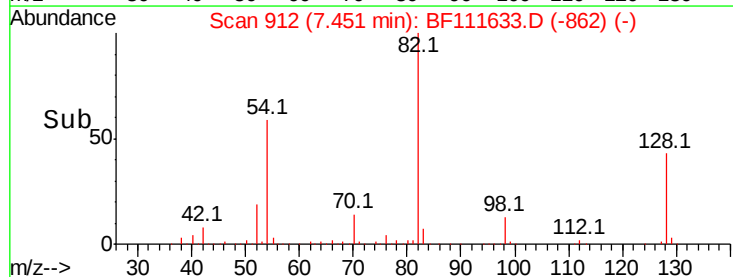
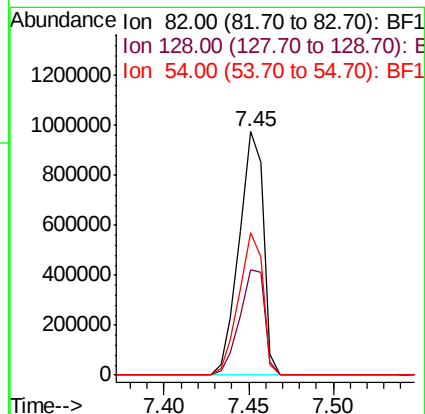
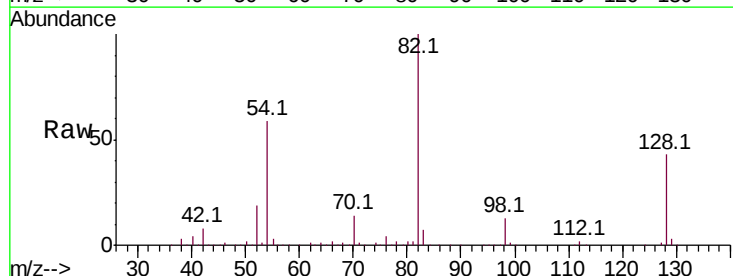
RT: 7.45 min Scan# 912

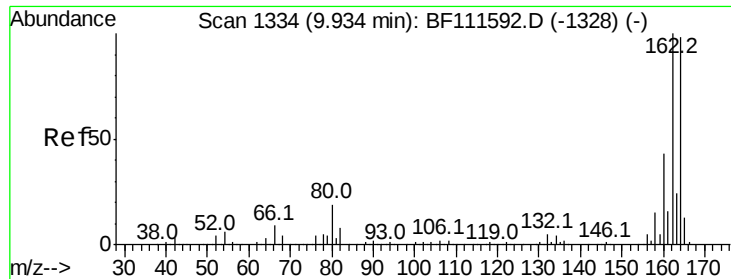
Delta R.T. -0.01 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.1  | 37.4 | 56.2  |       |
| 54      | 58.5  | 47.6 | 71.4  |       |





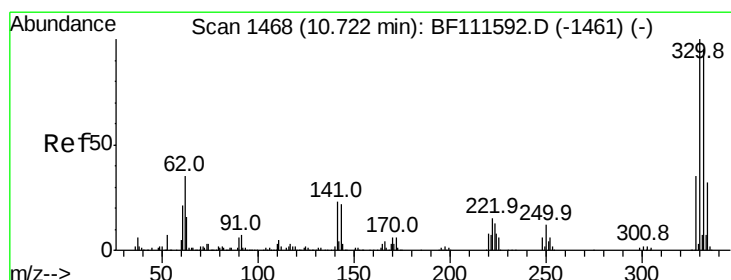
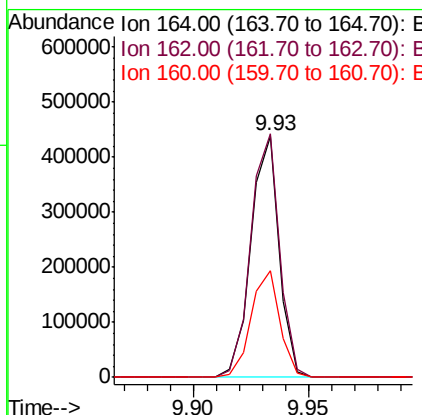
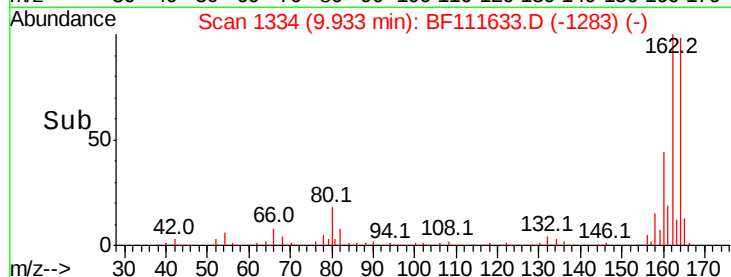
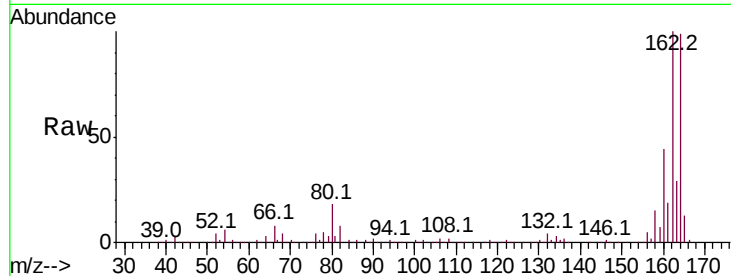
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

Instrument :  
BNA\_F  
ClientSampled :  
72-11929

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 373235 |       |       |
| 162     | 101.0 | 81.4   | 122.0 |       |
| 160     | 44.4  | 35.7   | 53.5  |       |

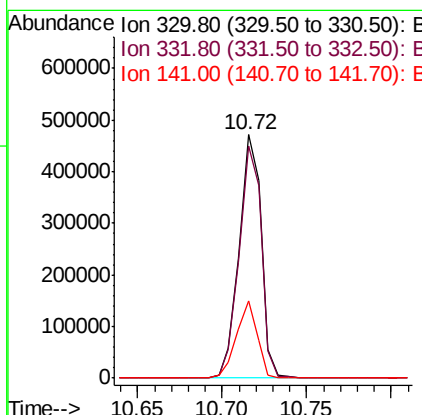
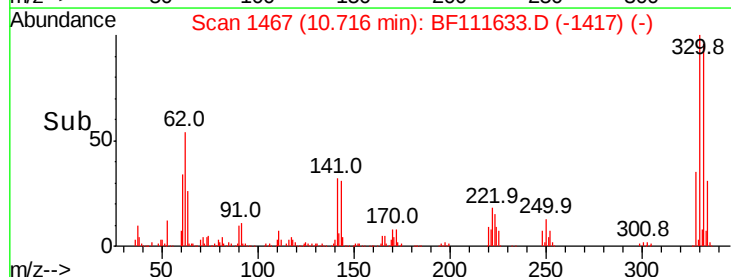
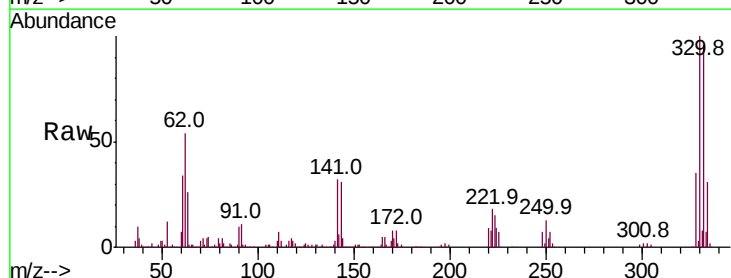
Manual Integrations  
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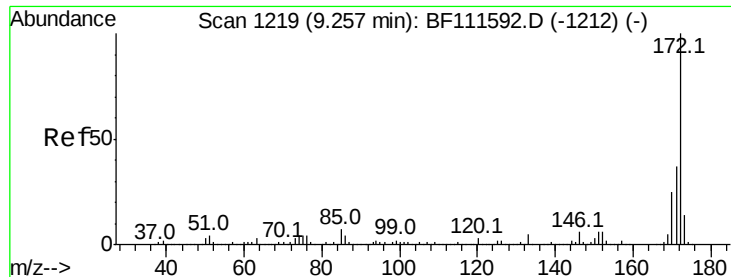
Sohil  
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#42  
2,4,6-Tribromophenol  
Concen: 97.538 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. -0.01 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 430149 |       |       |
| 332     | 96.8  | 76.0   | 114.0 |       |
| 141     | 29.7  | 31.0   | 46.6# |       |





#45

2-Fluorobiphenyl

Concen: 73.410 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.00 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

Instrument :

BNA\_F

ClientSampleId :

72-11929

Tot Ion:172 Resp: 1879767

Ion Ratio Lower Upper

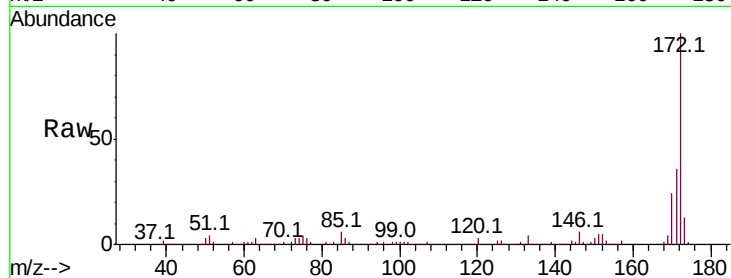
172 100

171 36.4 33.0 49.4

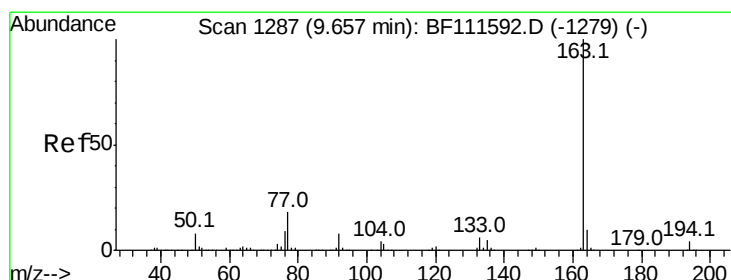
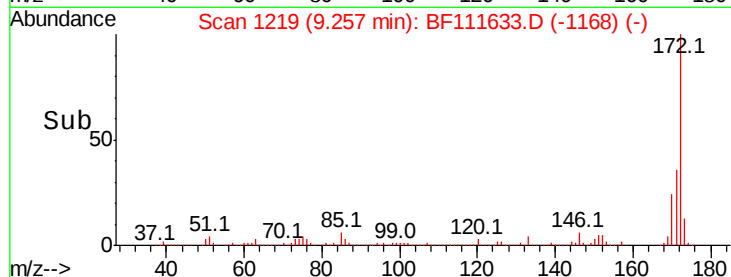
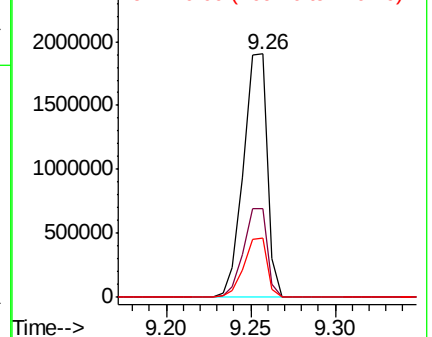
170 24.3 22.3 33.5

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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: 5.103 ng

RT: 9.64 min Scan# 1284

Delta R.T. -0.02 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

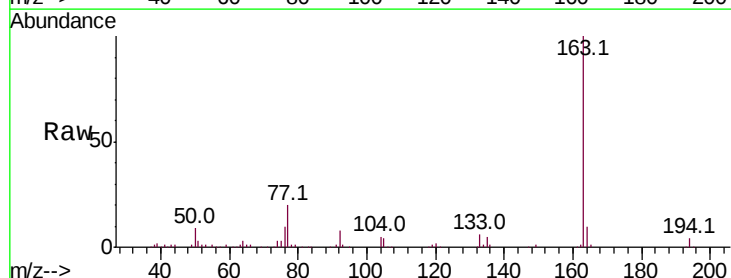
Tgt Ion:163 Resp: 139275

Ion Ratio Lower Upper

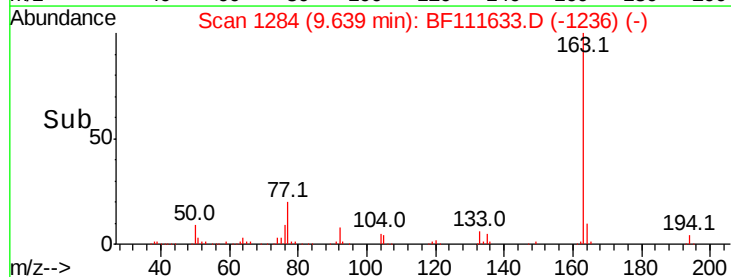
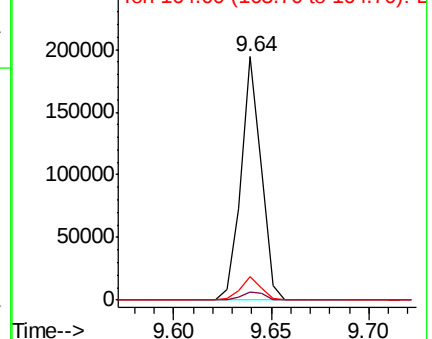
163 100

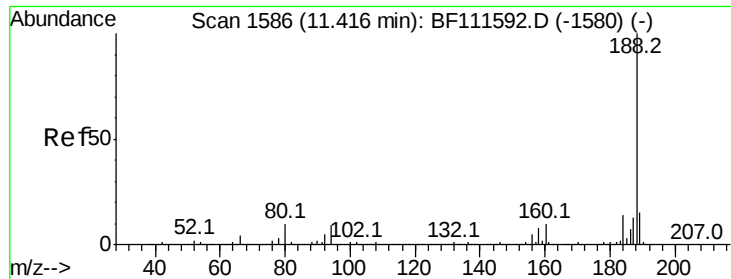
194 3.6 3.0 4.6

164 9.7 8.9 13.3



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





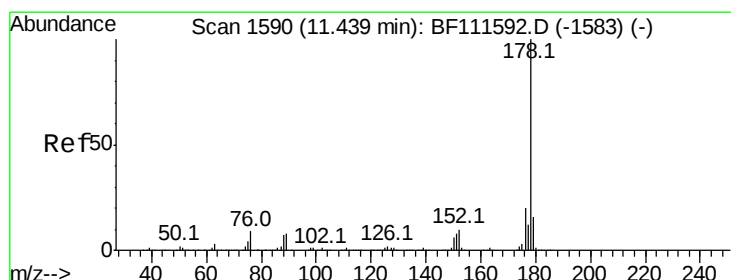
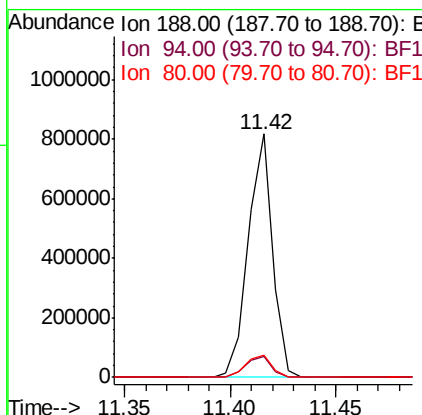
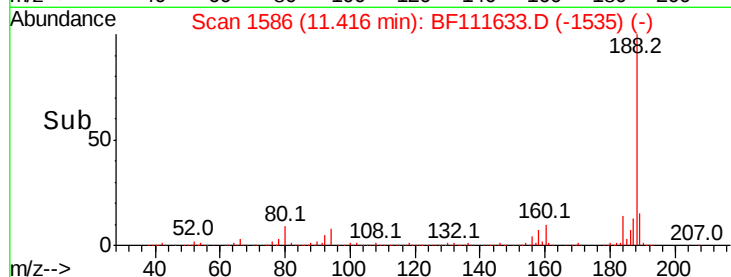
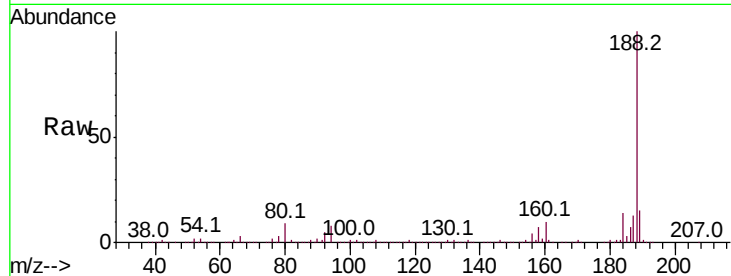
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

Instrument :  
BNA\_F  
ClientSampled :  
72-11929

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.3   | 9.6        | 14.4# |
| 80      | 8.9   | 9.8        | 14.6# |

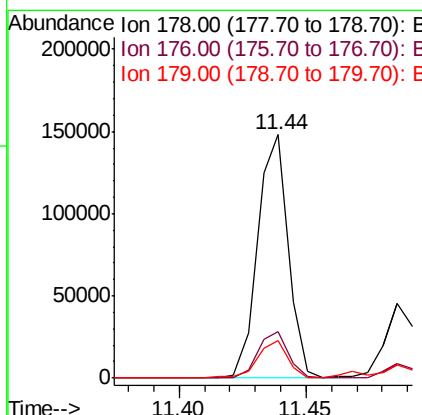
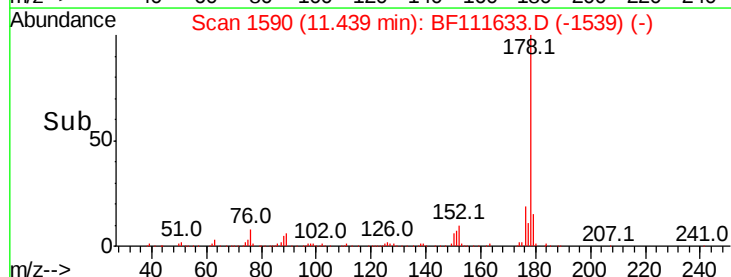
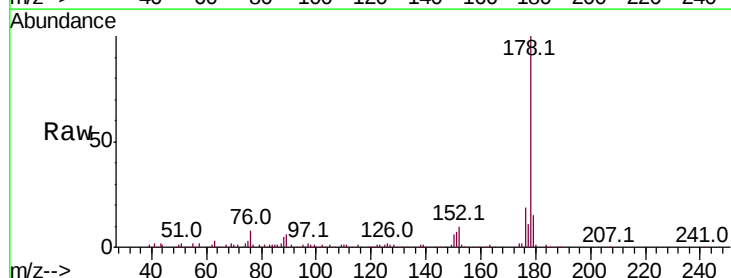
Manual Integrations  
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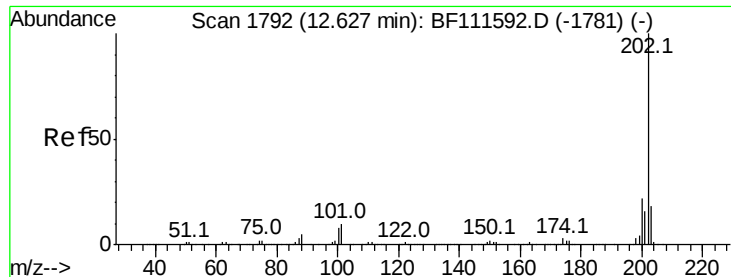
Sohil  
12/21/2018 2:46:34 PM



#71  
Phenanthrene  
Concen: 3.607 ng  
RT: 11.44 min Scan# 1590  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.0  | 18.1       | 27.1  |
| 179     | 15.3  | 14.0       | 21.0  |





#75

Fluoranthene

Concen: 4.833 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

Instrument :

BNA\_F

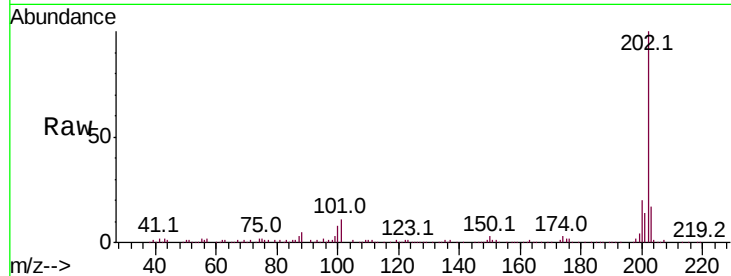
ClientSampled :

72-11929

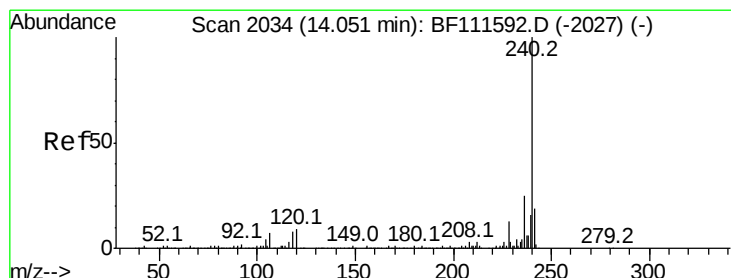
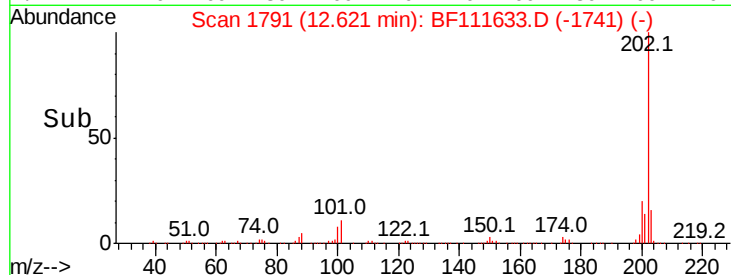
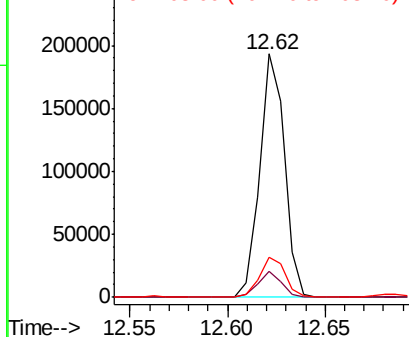
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 169770 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.7  | 0.0   | 33.8   |
| 203       | 16.7  | 0.0   | 38.6   |

Manual Integrations  
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12/21/2018 2:46:34 PM



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

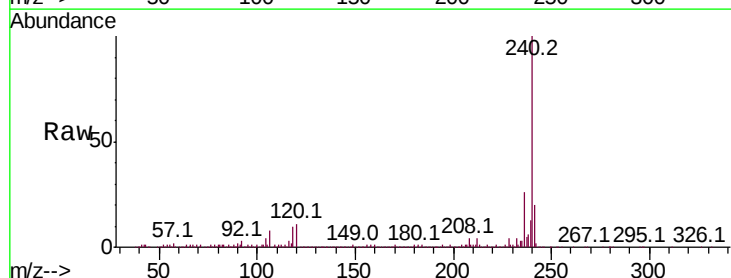
RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

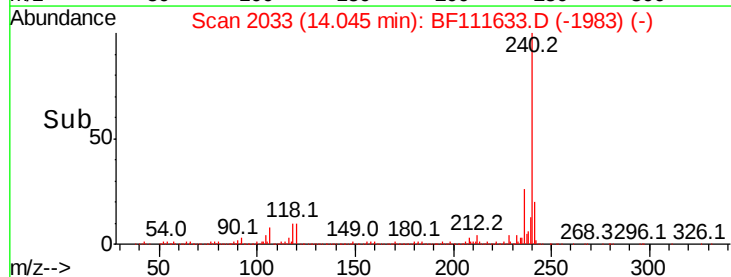
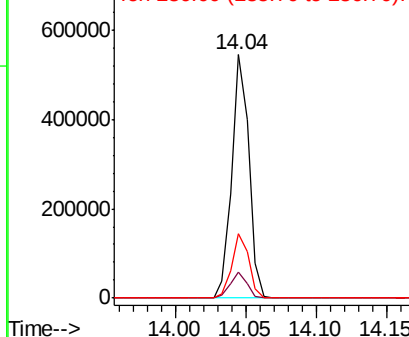
Lab File: BF111633.D

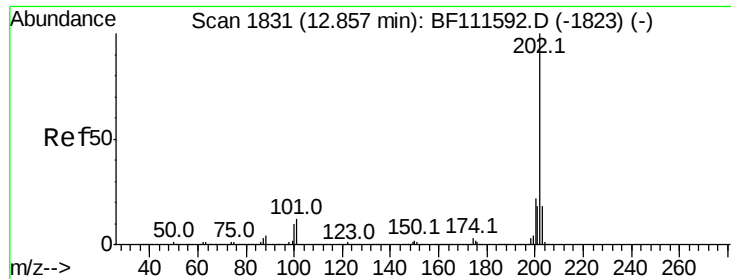
Acq: 20 Dec 2018 12:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 462146 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.6  | 12.2  | 18.2#  |
| 236       | 26.3  | 20.2  | 30.2   |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





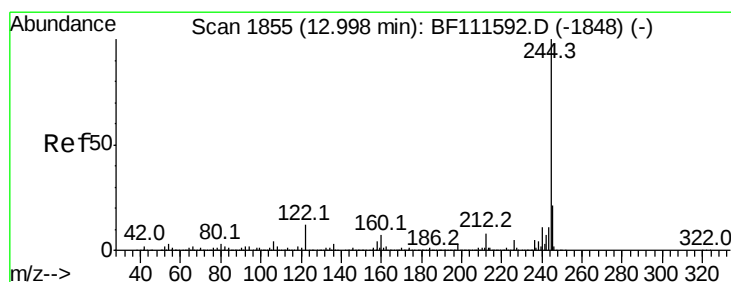
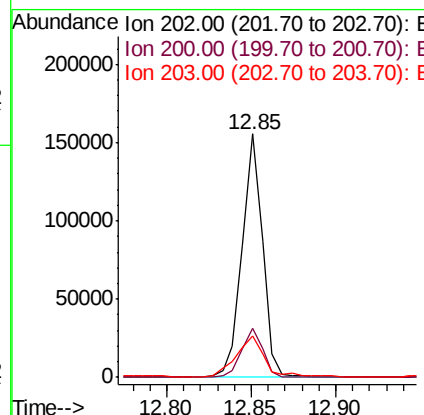
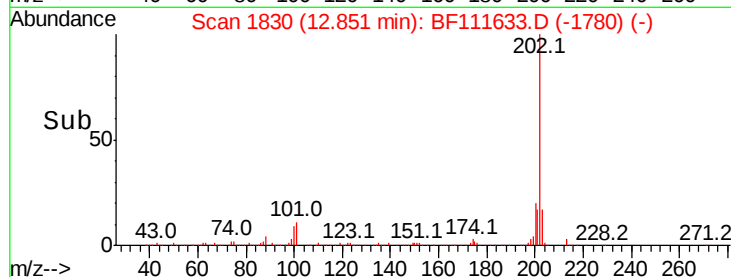
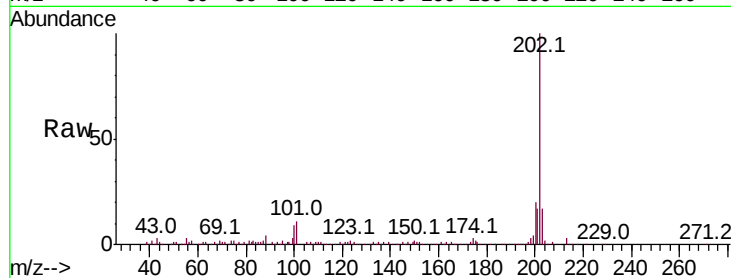
#78  
Pvrene  
Concen: 4.052 ng  
RT: 12.85 min Scan# 1830  
Delta R.T. -0.01 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

Instrument :  
BNA\_F  
ClientSampleId :  
72-11929

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.1  | 19.0       | 28.4  |
| 203     | 17.0  | 15.2       | 22.8  |

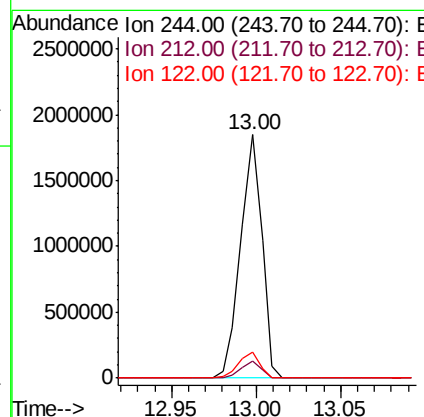
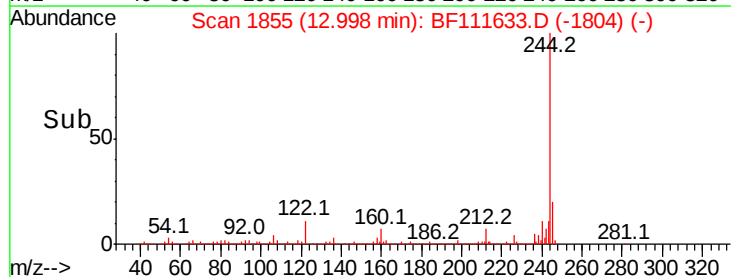
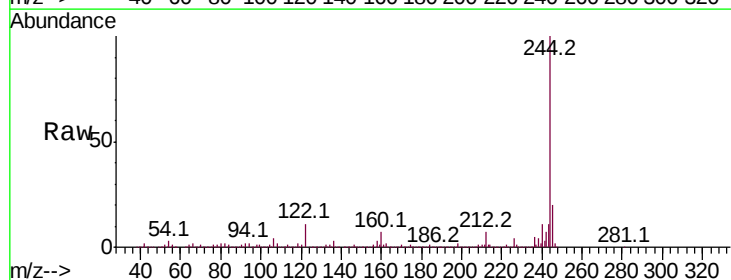
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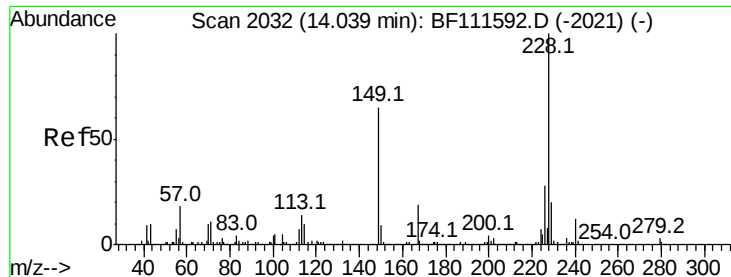
Sohil  
12/21/2018 2:46:34 PM



#79  
Terphenyl-d14  
Concen: 66.491 ng  
RT: 13.00 min Scan# 1855  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.0   | 5.7        | 8.5   |
| 122     | 10.8  | 13.1       | 19.7# |





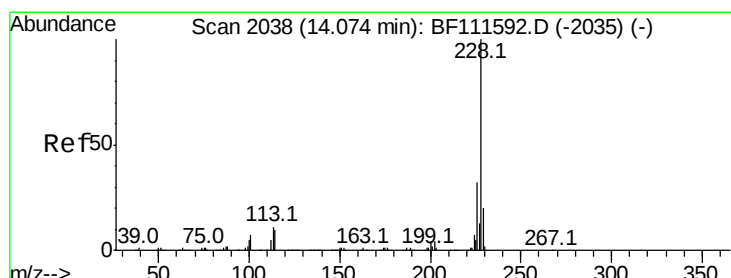
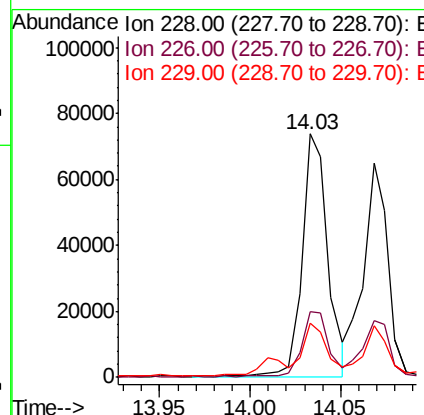
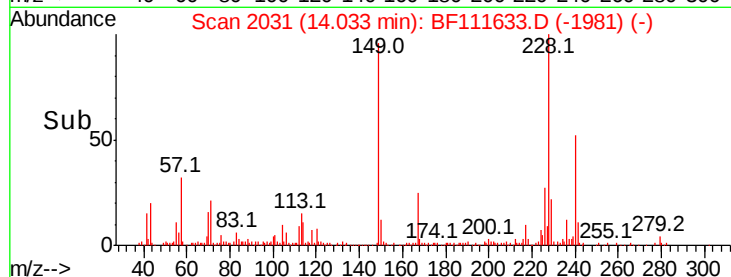
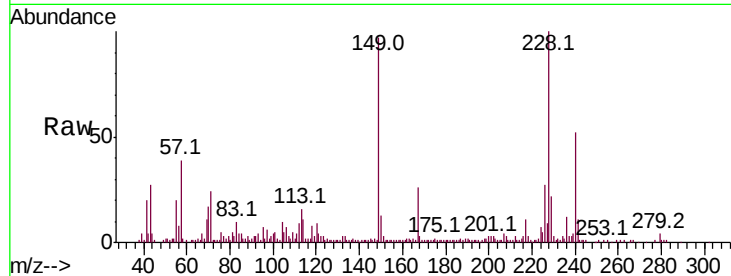
#81  
Benzo(a)anthracene  
Concen: 2.811 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.01 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

Instrument :  
BNA\_F  
ClientSampleId :  
72-11929

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.8  | 22.6  | 34.0  |
| 229     | 22.4  | 16.3  | 24.5  |

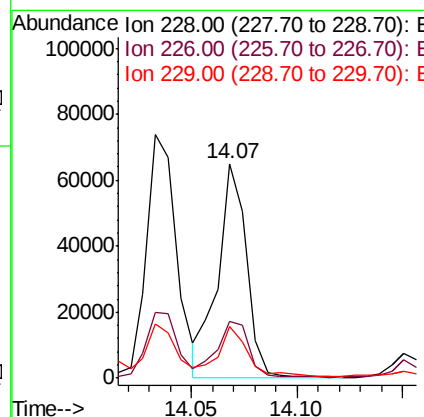
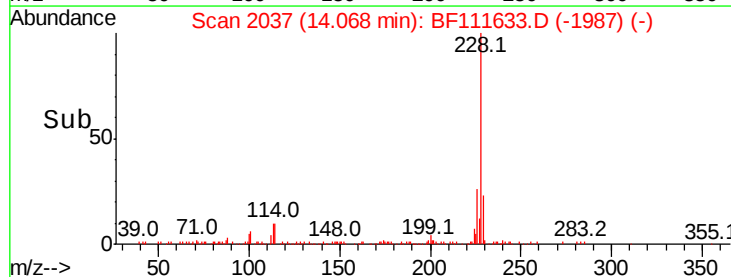
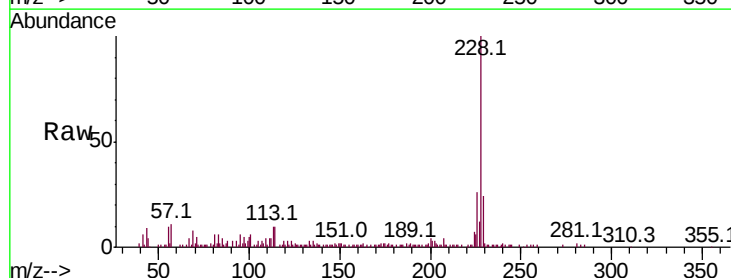
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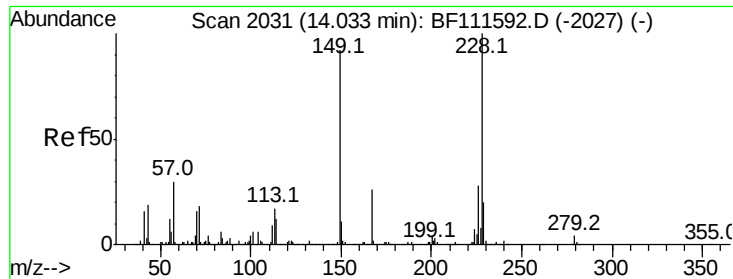
Sohil  
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#83  
Chrysene  
Concen: 2.399 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.01 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.4  | 25.3  | 37.9  |
| 229     | 24.0  | 17.2  | 25.8  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.493 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

Instrument :

BNA\_F

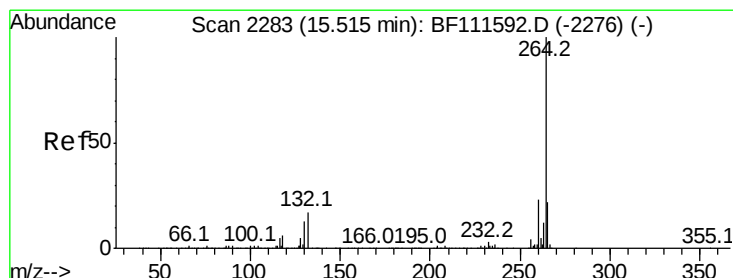
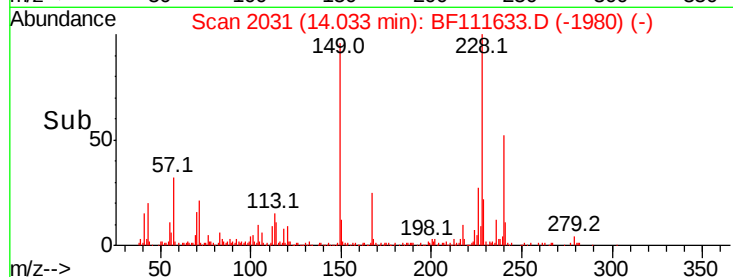
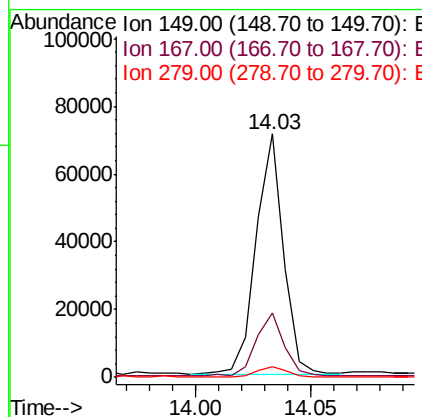
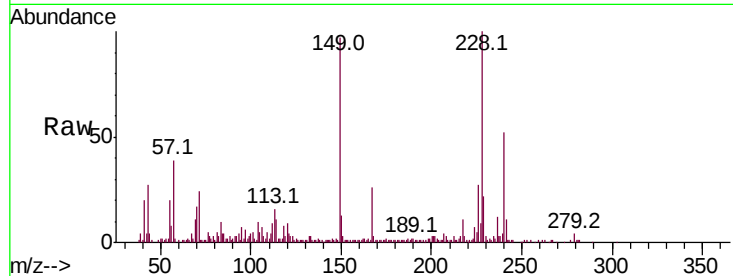
ClientSampleId :

72-11929

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 58537 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 26.7  | 22.5  | 33.7  |
| 279       | 4.2   | 2.6   | 4.0#  |

Manual Integrations  
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#87

Perylene-d12

Concen: 20.000 ng

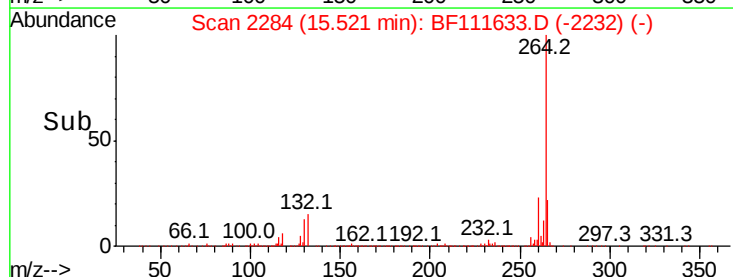
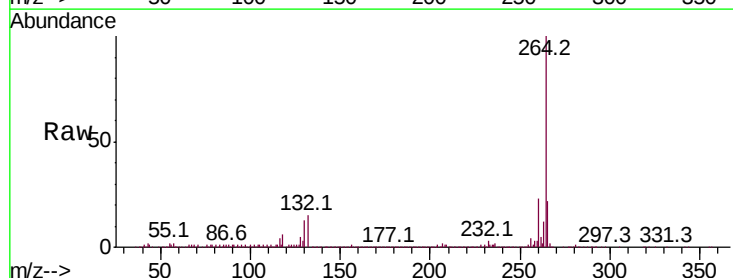
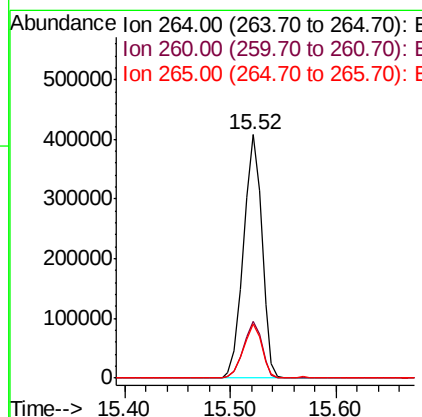
RT: 15.52 min Scan# 2284

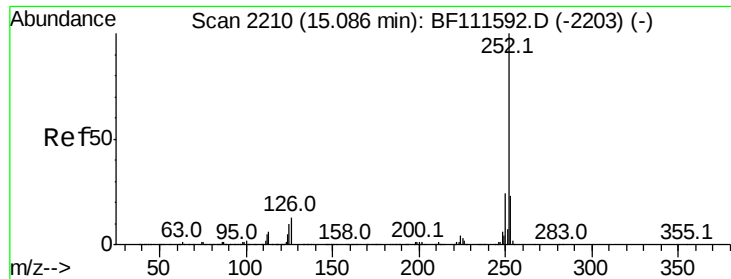
Delta R.T. 0.01 min

Lab File: BF111633.D

Acq: 20 Dec 2018 12:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 490758 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.5  | 18.3  | 27.5   |
| 265       | 22.1  | 17.7  | 26.5   |





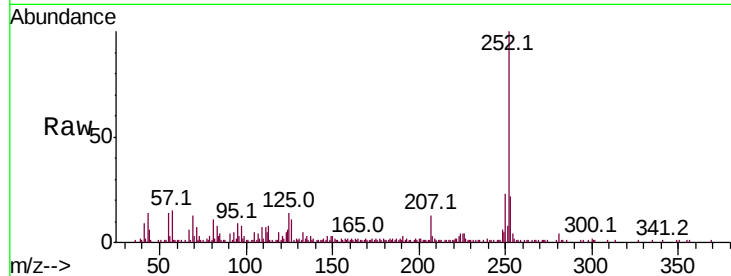
#88  
Benzo(b)fluoranthene  
Concen: 2.617 ng m  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

Instrument :  
BNA\_F  
ClientSampleId :  
72-11929

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.2  | 27.2  |
| 125     | 13.7  | 10.4  | 15.6  |

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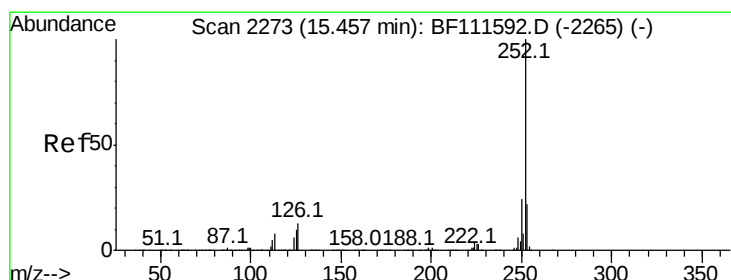
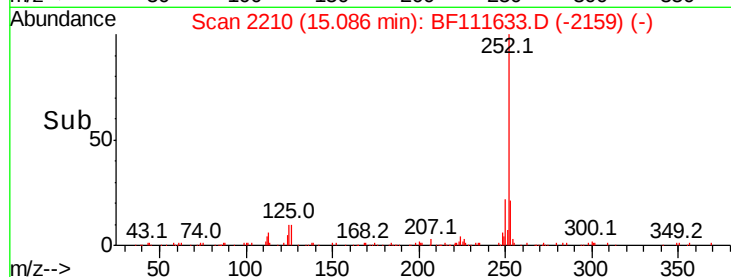
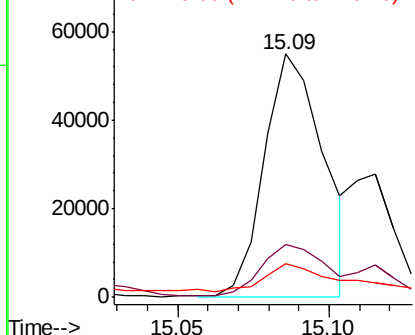


Abundance

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



#90  
Benzo(a)pyrene  
Concen: 2.069 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. -0.00 min  
Lab File: BF111633.D  
Acq: 20 Dec 2018 12:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.8  | 26.8  |
| 125     | 10.9  | 12.3  | 18.5  |

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

