

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040819\  
 Data File : BF113645.D  
 Acq On : 8 Apr 2019 17:58  
 Operator : JU/SJ  
 Sample : K2264-04  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 293-72-11966-238

Manual Integrations  
 APPROVED

Sohil  
 4/10/2019 6:20:00 PM

Quant Time: Apr 09 10:12:02 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 04:05:31 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.68  | 152  | 110199   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.96  | 136  | 424787   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.71  | 164  | 214443   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.19 | 188  | 435823   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12            | 13.83 | 240  | 305756   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12            | 15.24 | 264  | 294881   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.29  | 112  | 521840   | 80.75  | ng    | 0.00     |
| 7) Phenol-d6                | 6.33  | 99   | 693702   | 87.09  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.25  | 82   | 403035   | 55.58  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330  | 216429   | 84.02  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.03  | 172  | 795877   | 59.75  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.77 | 244  | 832405   | 55.43  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.43  | 163  | 72545    | 4.589  | ng    | 99       |
| 71) Phenanthrene            | 11.22 | 178  | 415729   | 19.197 | ng    | 98       |
| 72) Anthracene              | 11.27 | 178  | 80980    | 3.675  | ng    | 98       |
| 75) Fluoranthene            | 12.40 | 202  | 535247   | 23.065 | ng    | 99       |
| 78) Pyrene                  | 12.63 | 202  | 461621   | 19.842 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.82 | 228  | 206773   | 11.723 | ng    | 99       |
| 83) Chrysene                | 13.85 | 228  | 187045   | 10.461 | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.60 | 276  | 97061    | 5.880  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 14.84 | 252  | 223213m  | 12.366 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.86 | 252  | 66193m   | 4.086  | ng    |          |
| 90) Benzo(a)pyrene          | 15.18 | 252  | 159111   | 9.920  | ng    | 99       |
| 92) Benzo(a,h,i)perylene    | 17.01 | 276  | 91877    | 6.001  | ng    | 97       |

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

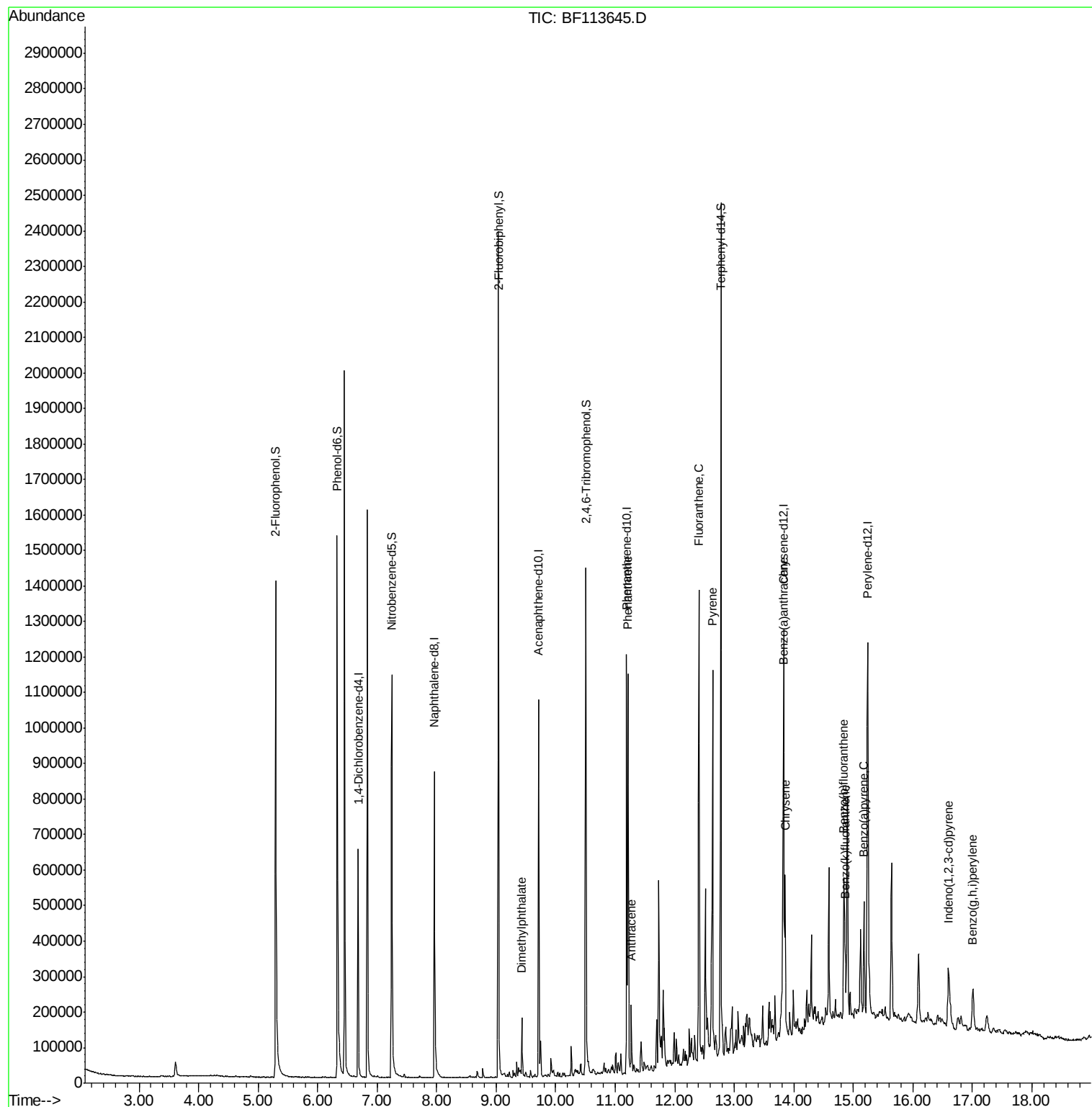
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040819\  
Data File : BF113645.D  
Acq On : 8 Apr 2019 17:58  
Operator : JU/SJ  
Sample : K2264-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
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293-72-11966-238

Manual Integrations  
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Quant Time: Apr 09 10:12:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Apr 04 04:05:31 2019  
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#1

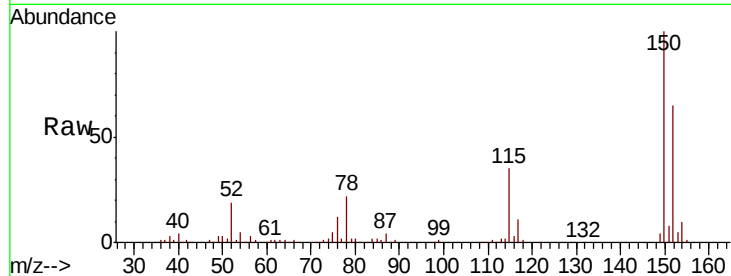
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.68 min Scan# 781  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampleId :  
293-72-11966-238

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.9 | 124.7 | 187.1 |
| 115     | 53.7  | 46.0  | 69.0  |

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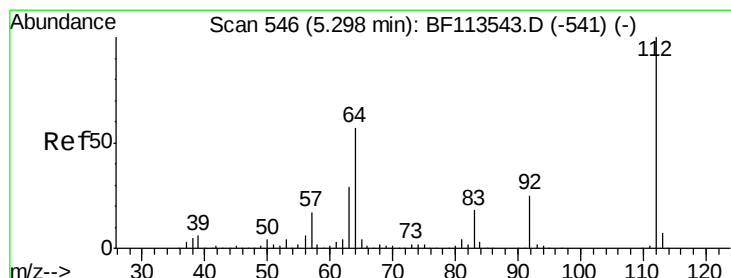
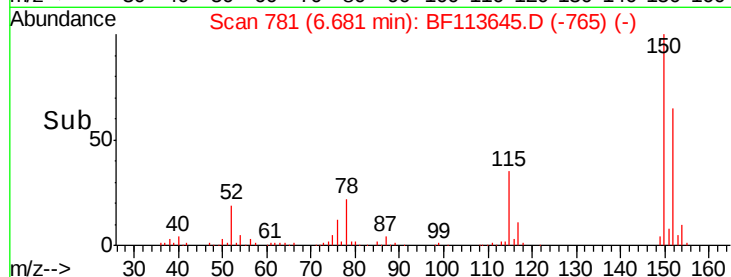
Abundance

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

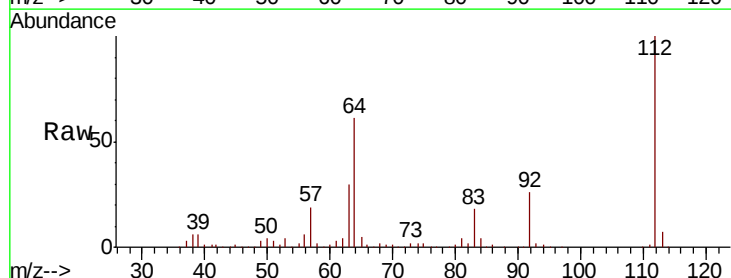
Time-->



#5

2-Fluorophenol  
Concen: 80.750 ng  
RT: 5.29 min Scan# 545  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.7  | 49.2  | 73.8  |
| 63      | 30.4  | 24.9  | 37.3  |



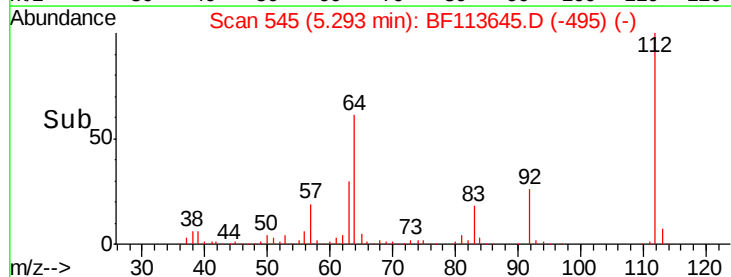
Abundance

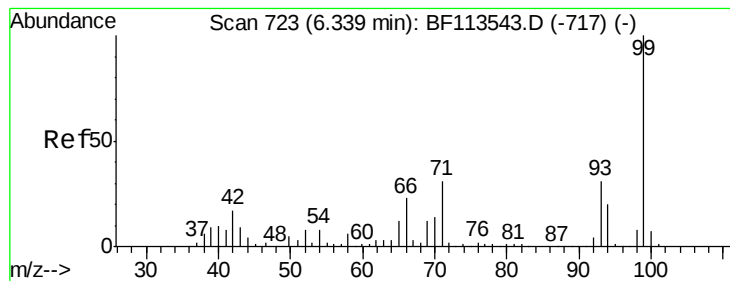
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 87.094 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF113645.D

Acq: 8 Apr 2019 17:58

Instrument :

BNA\_F

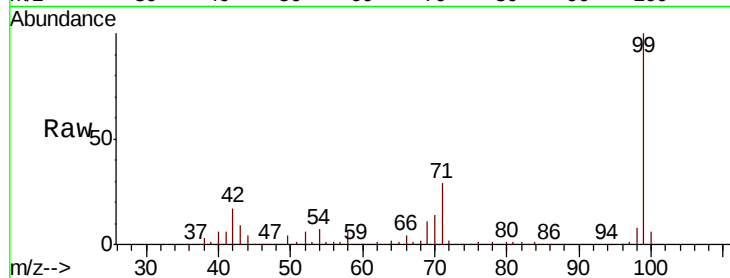
ClientSampleId :

293-72-11966-238

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 693702 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 16.5  | 14.8  | 22.2   |
| 71       | 29.2  | 24.9  | 37.3   |

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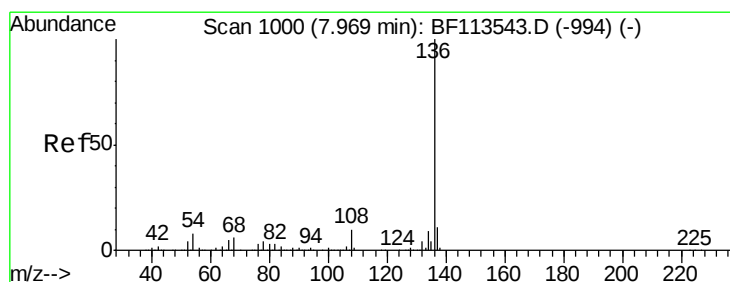
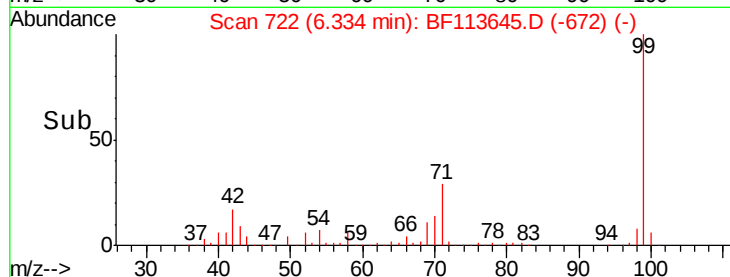
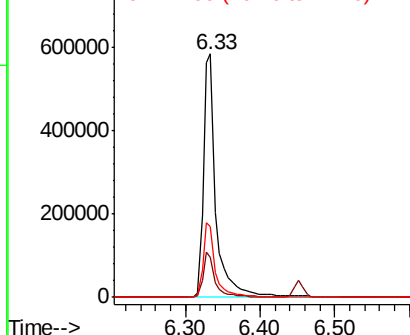


Abundance

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 999

Delta R.T. -0.01 min

Lab File: BF113645.D

Acq: 8 Apr 2019 17:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 424787 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 7.8   | 7.0   | 10.6   |
| 68       | 5.9   | 4.8   | 7.2    |

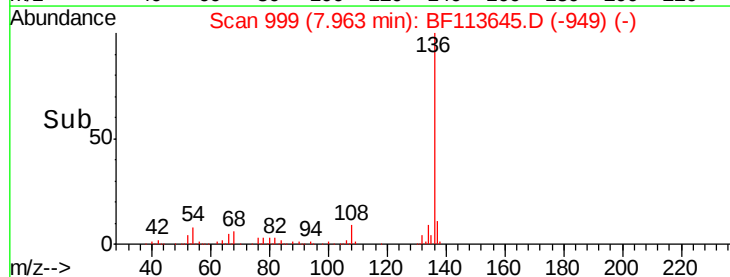
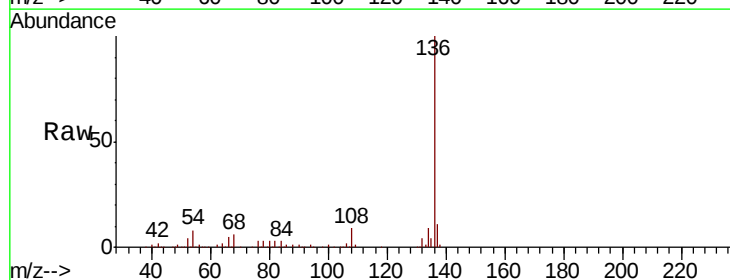
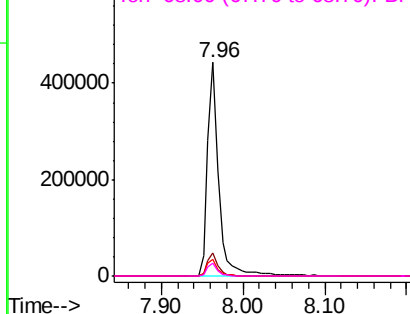
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





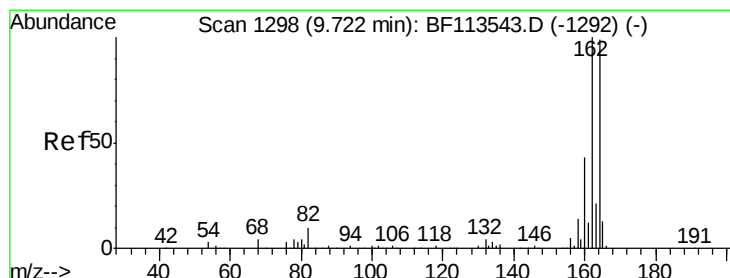
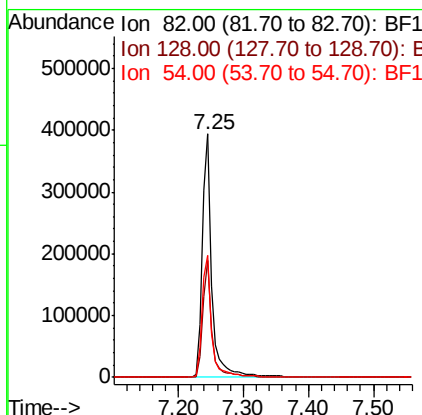
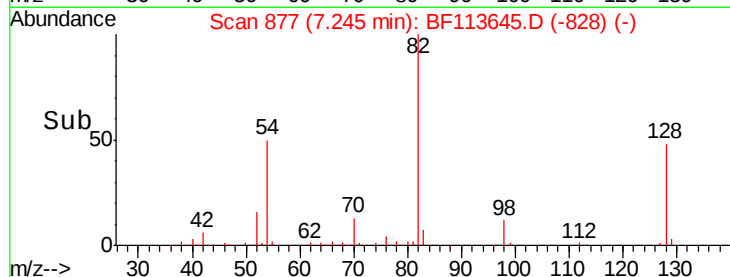
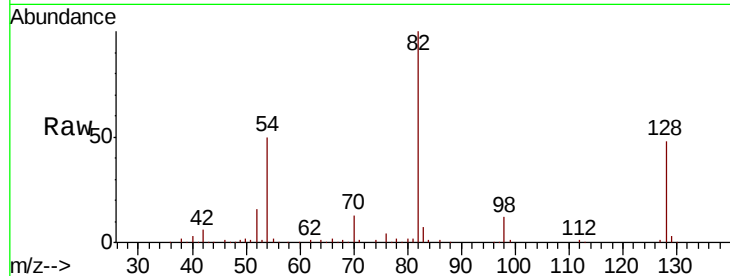
#23  
Nitrobenzene-d5  
Concen: 55.576 ng  
RT: 7.25 min Scan# 877  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampled :  
293-72-11966-238

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.0  | 36.5  | 54.7  |
| 54      | 50.0  | 42.2  | 63.2  |

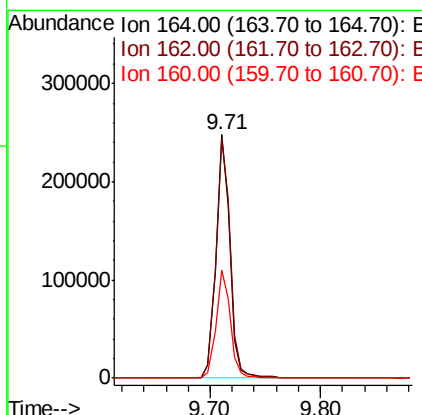
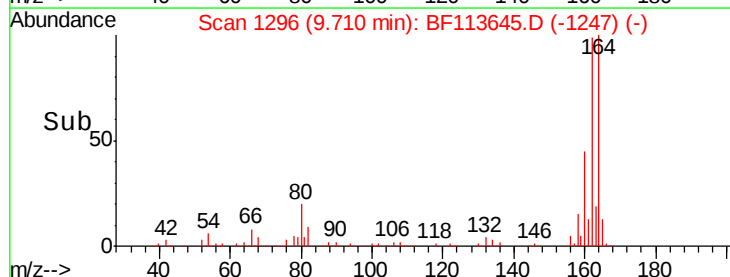
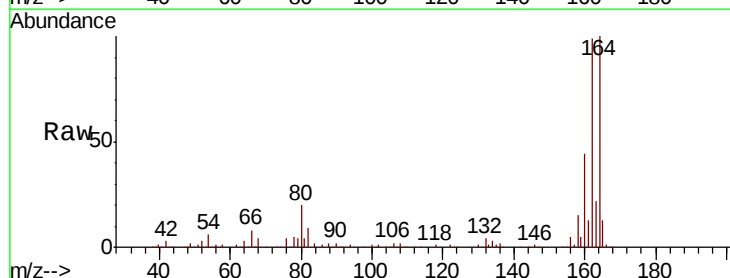
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.71 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.6  | 81.8  | 122.6 |
| 160     | 44.4  | 36.4  | 54.6  |





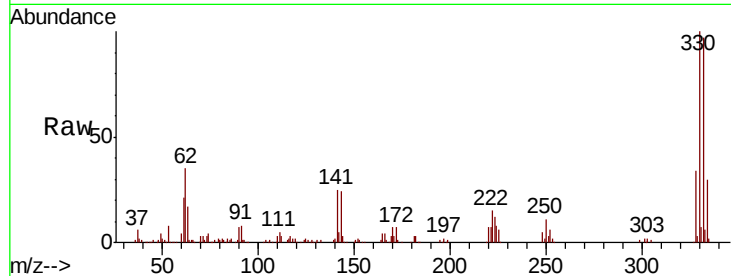
#42  
 2,4,6-Tribromophenol  
 Concen: 84.018 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. -0.01 min  
 Lab File: BF113645.D  
 Acq: 8 Apr 2019 17:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 293-72-11966-238

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 216429 |       |       |
| 332     | 95.5  | 77.8   | 116.6 |       |
| 141     | 27.2  | 22.7   | 34.1  |       |

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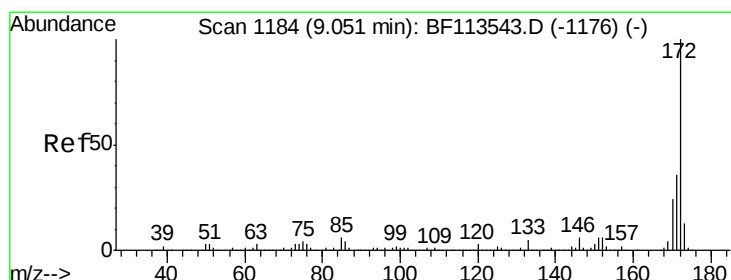
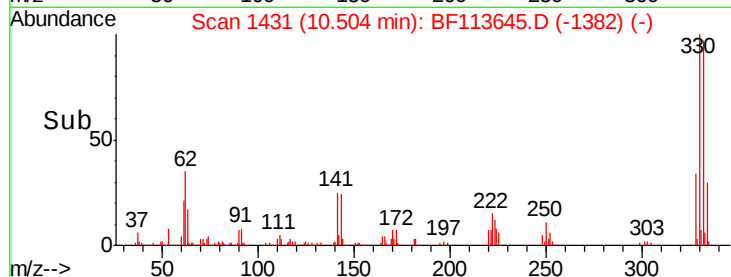
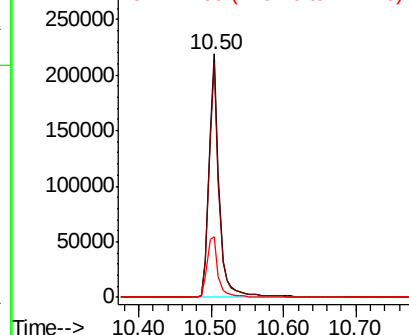


Abundance

Ion 329.80 (329.50 to 330.50): E

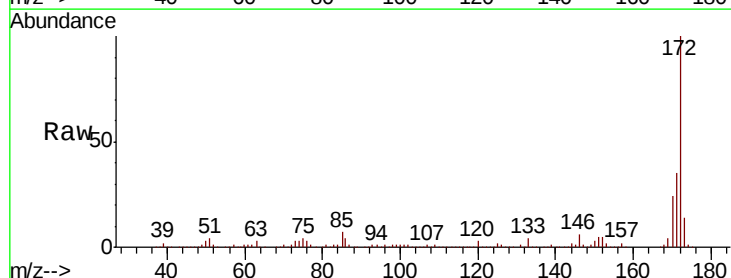
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 59.749 ng  
 RT: 9.03 min Scan# 1181  
 Delta R.T. -0.02 min  
 Lab File: BF113645.D  
 Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 795877 |       |       |
| 171     | 35.1  | 29.0   | 43.6  |       |
| 170     | 24.0  | 19.5   | 29.3  |       |

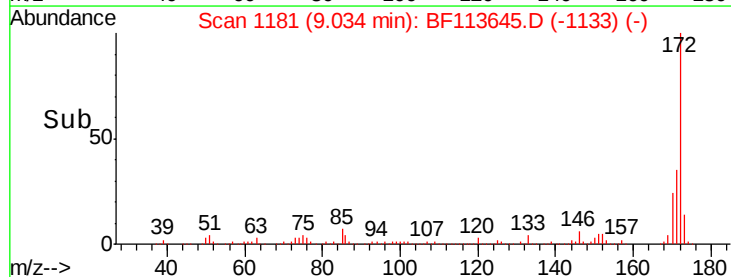
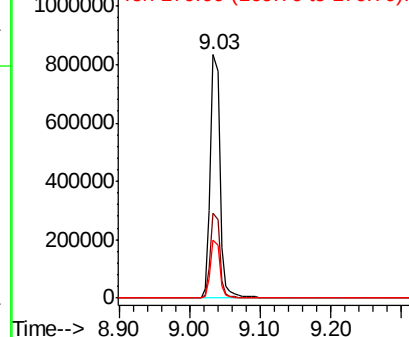


Abundance

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





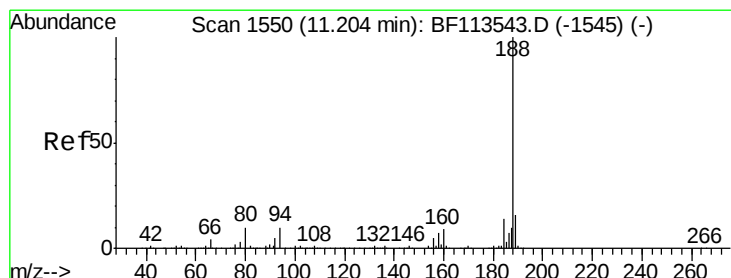
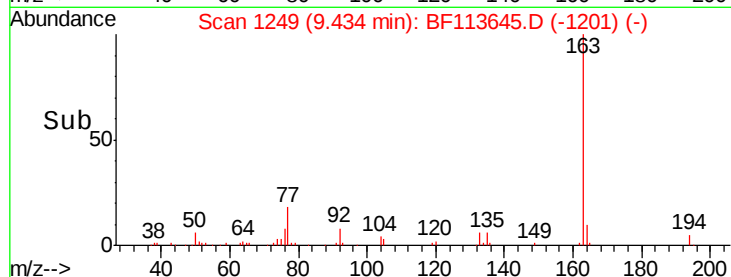
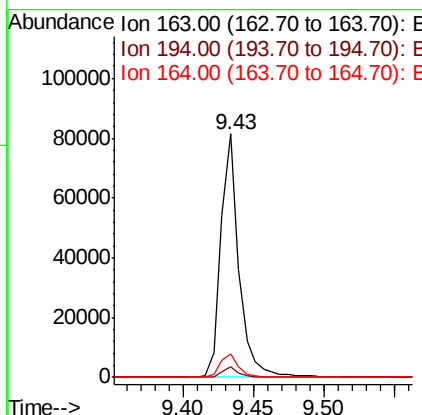
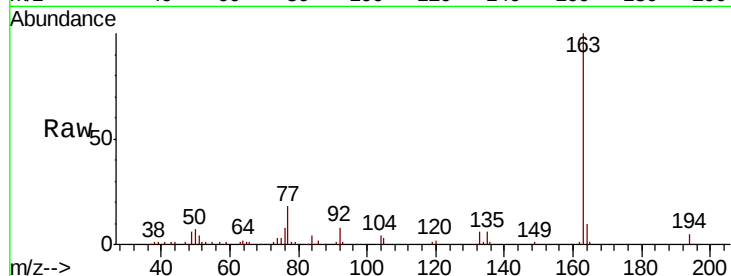
#50  
Dimethylphthalate  
Concen: 4.589 ng  
RT: 9.43 min Scan# 1249  
Delta R.T. -0.02 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampleId :  
293-72-11966-238

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.6   | 3.0   | 4.6   |
| 164     | 9.7   | 8.1   | 12.1  |

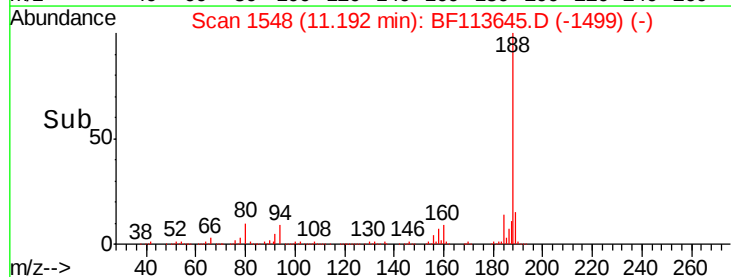
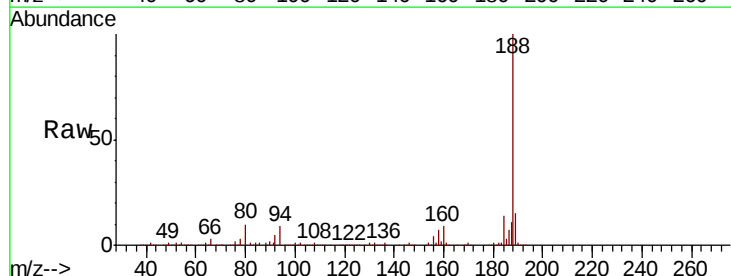
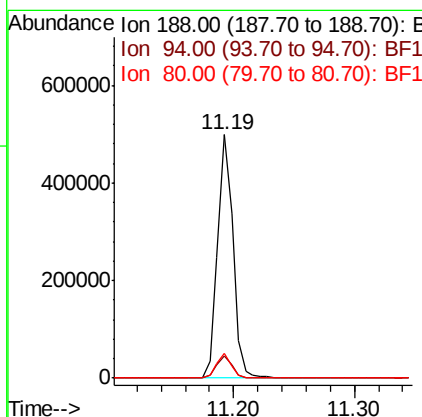
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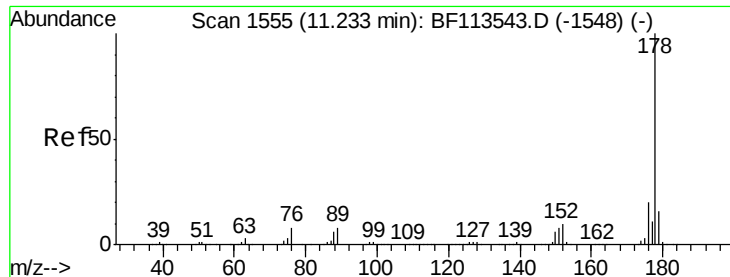
Sohil  
4/10/2019 6:20:00 PM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.19 min Scan# 1548  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 7.0   | 10.6  |
| 80      | 9.9   | 7.7   | 11.5  |





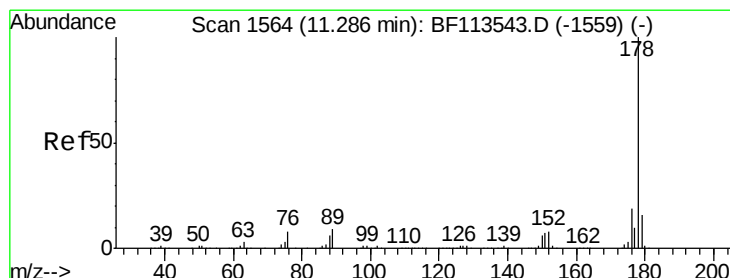
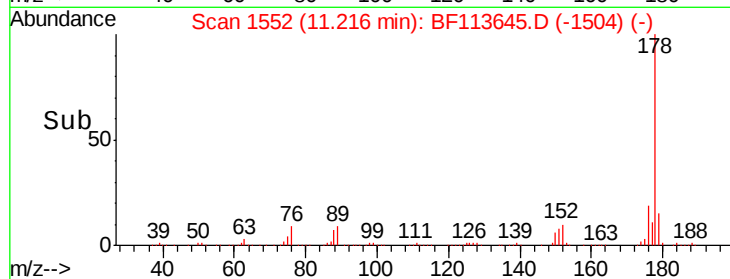
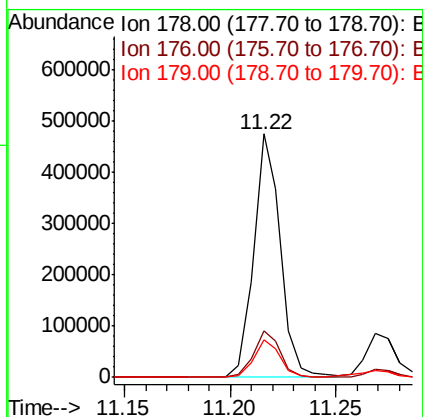
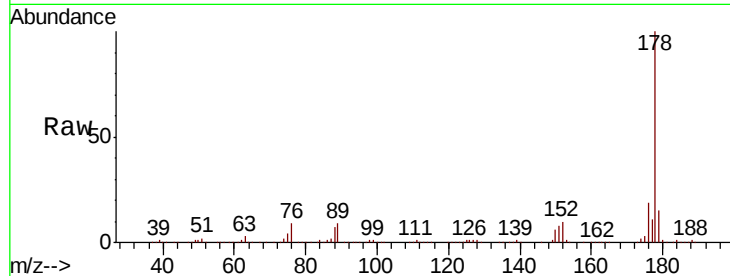
#71  
Phenanthrene  
Concen: 19.197 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.02 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampleId :  
293-72-11966-238

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 16.2  | 24.2  |
| 179     | 15.5  | 12.7  | 19.1  |

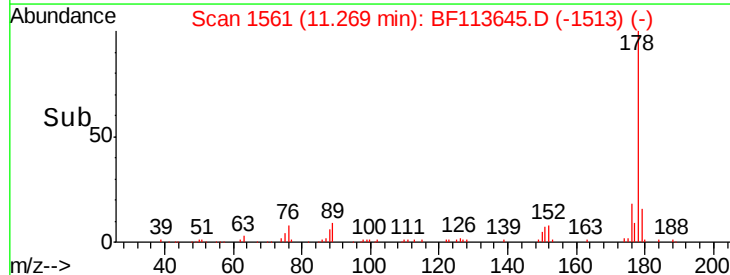
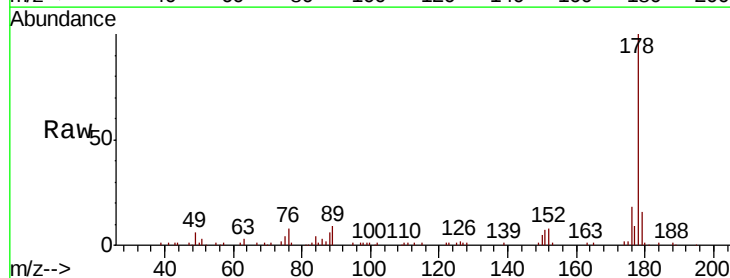
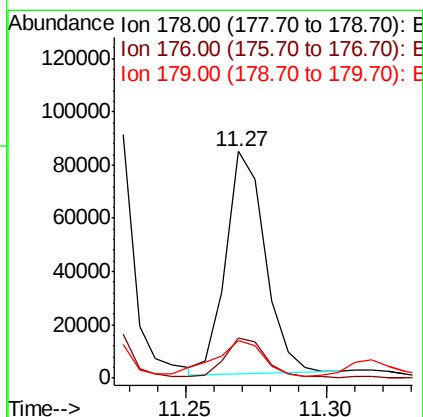
Manual Integrations  
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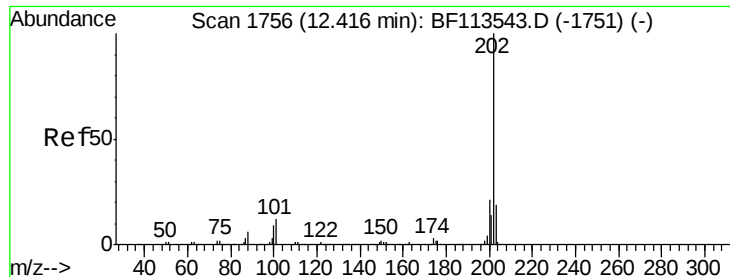
Sohil  
4/10/2019 6:20:00 PM



#72  
Anthracene  
Concen: 3.675 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. -0.02 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.9  | 15.4  | 23.2  |
| 179     | 16.5  | 12.8  | 19.2  |





#75

Fluoranthene

Concen: 23.065 ng

RT: 12.40 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF113645.D

Acq: 8 Apr 2019 17:58

Instrument :

BNA\_F

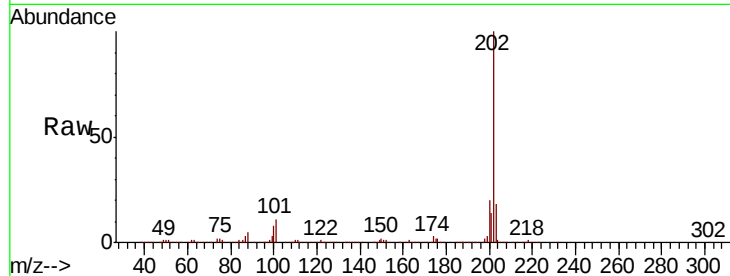
ClientSampleId :

293-72-11966-238

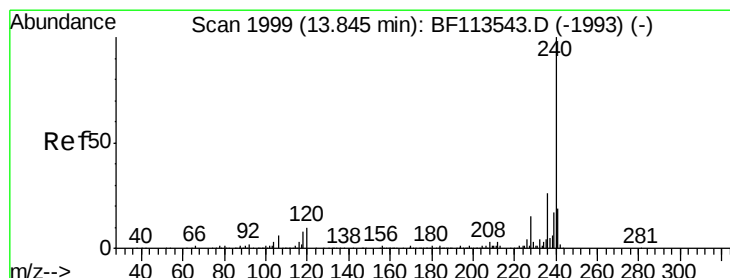
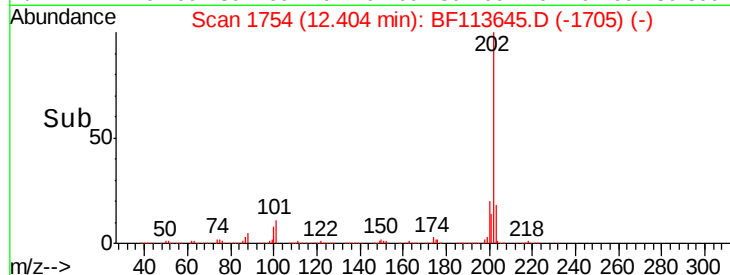
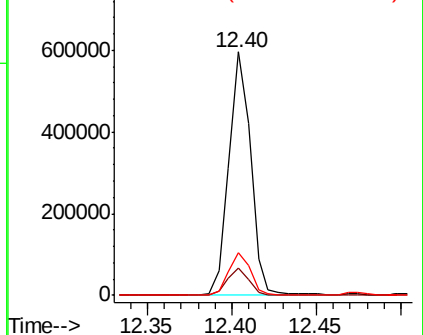
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 535247 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.2  | 0.0   | 31.4   |
| 203       | 17.6  | 0.0   | 38.0   |

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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: 13.83 min Scan# 1996

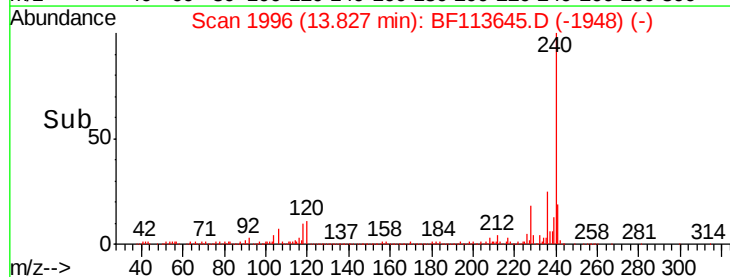
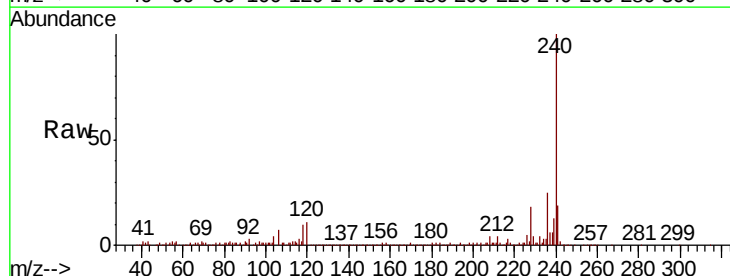
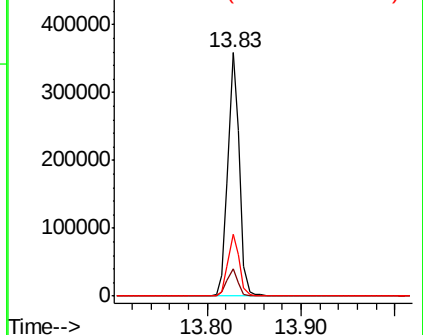
Delta R.T. -0.02 min

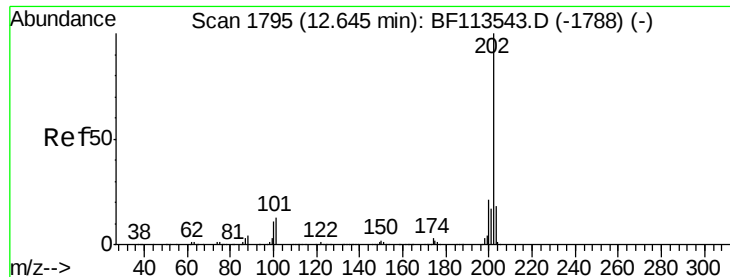
Lab File: BF113645.D

Acq: 8 Apr 2019 17:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 305756 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.4  | 8.8   | 13.2   |
| 236       | 25.2  | 20.9  | 31.3   |

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





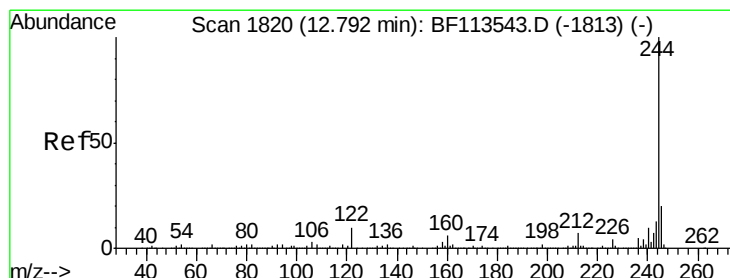
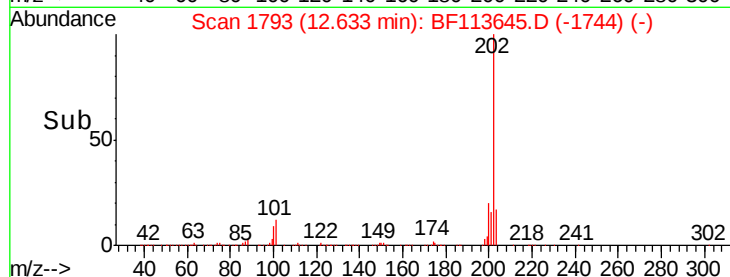
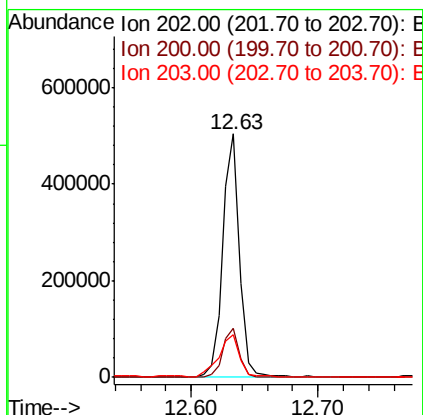
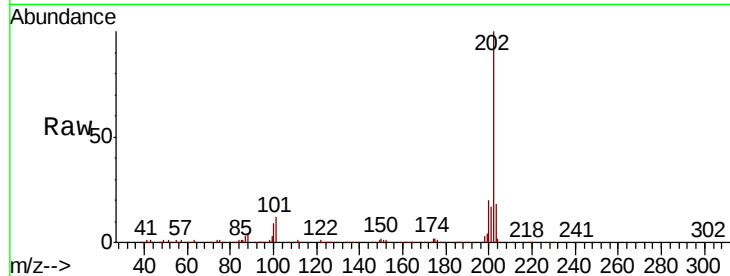
#78  
Pvrene  
Concen: 19.842 ng  
RT: 12.63 min Scan# 1793  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampleId :  
293-72-11966-238

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.2  | 16.8  | 25.2  |
| 203     | 17.5  | 14.4  | 21.6  |

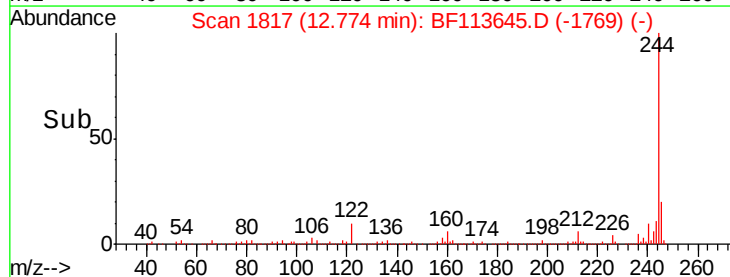
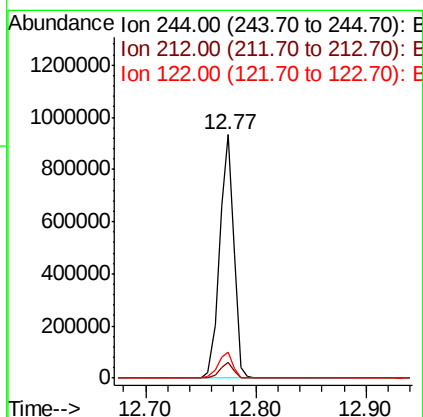
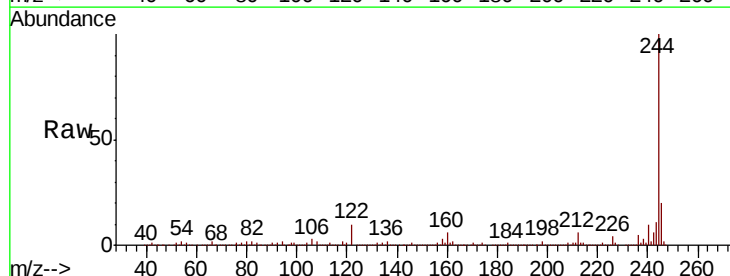
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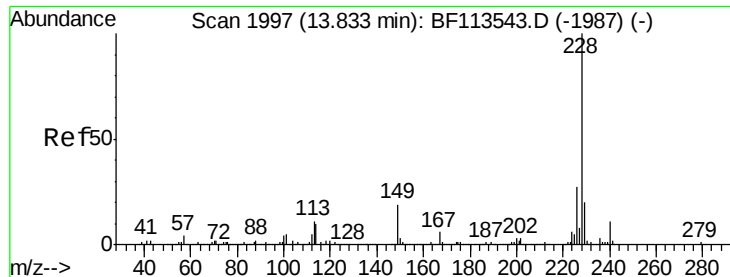
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#79  
Terphenyl-d14  
Concen: 55.429 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.02 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.3   | 5.5   | 8.3   |
| 122     | 10.4  | 8.6   | 13.0  |





#81

Benzo(a)anthracene

Concen: 11.723 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.02 min

Lab File: BF113645.D

Acq: 8 Apr 2019 17:58

Instrument :

BNA\_F

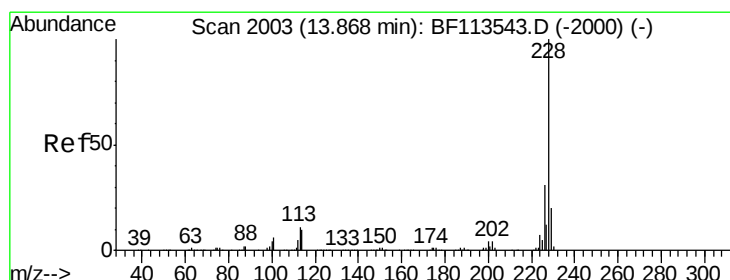
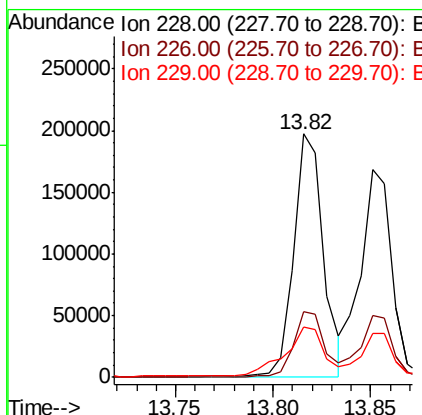
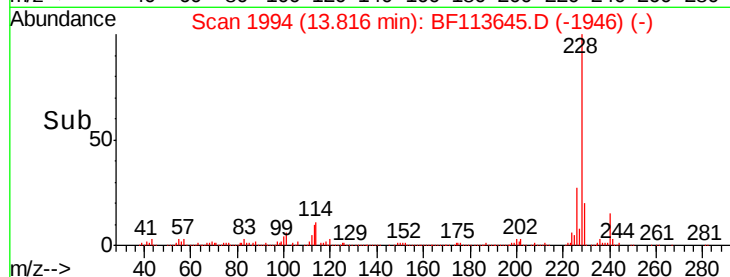
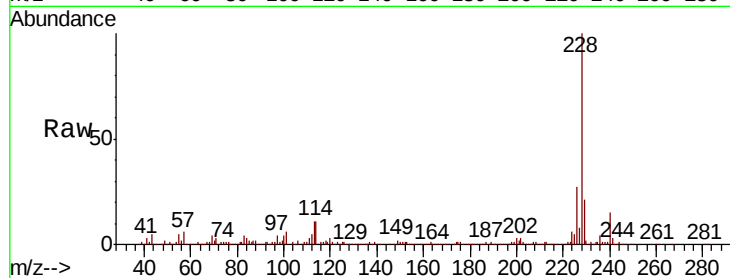
ClientSampleId :

293-72-11966-238

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 206773 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.2  | 21.8  | 32.8   |
| 229       | 20.9  | 16.2  | 24.4   |

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#83

Chrysene

Concen: 10.461 ng

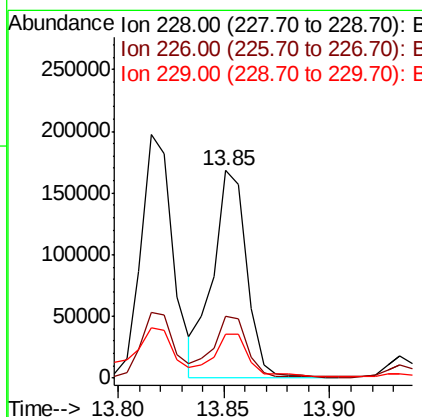
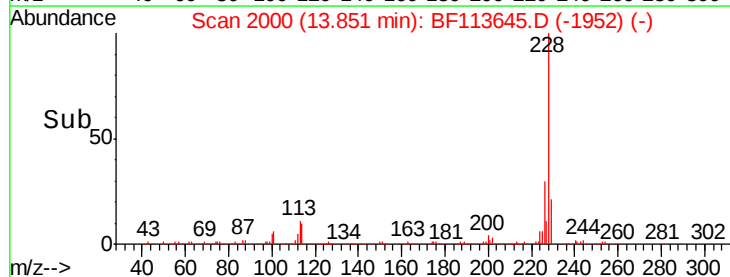
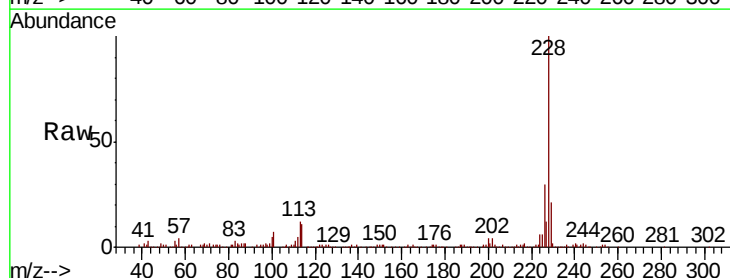
RT: 13.85 min Scan# 2000

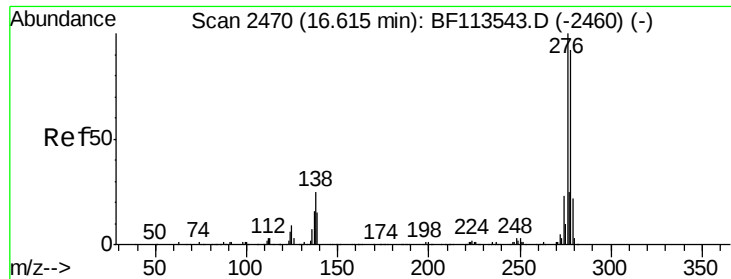
Delta R.T. -0.02 min

Lab File: BF113645.D

Acq: 8 Apr 2019 17:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 187045 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.0  | 24.3  | 36.5   |
| 229       | 21.5  | 16.3  | 24.5   |





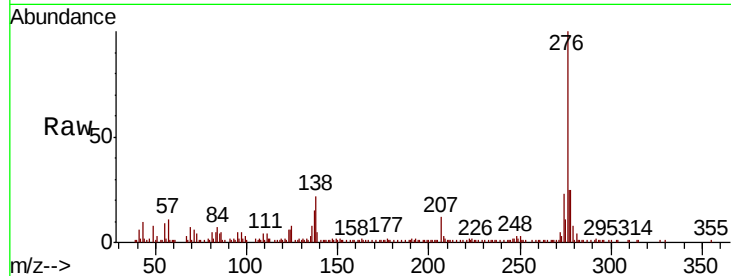
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.880 ng  
 RT: 16.60 min Scan# 2467  
 Delta R.T. -0.02 min  
 Lab File: BF113645.D  
 Acq: 8 Apr 2019 17:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 293-72-11966-238

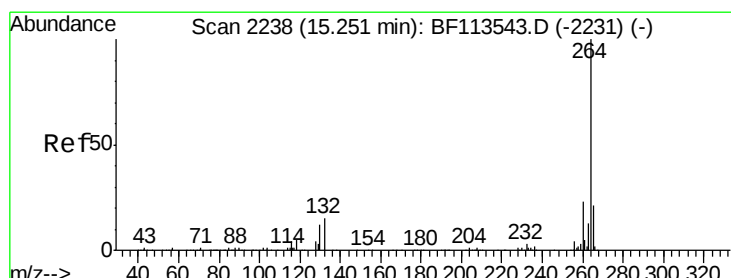
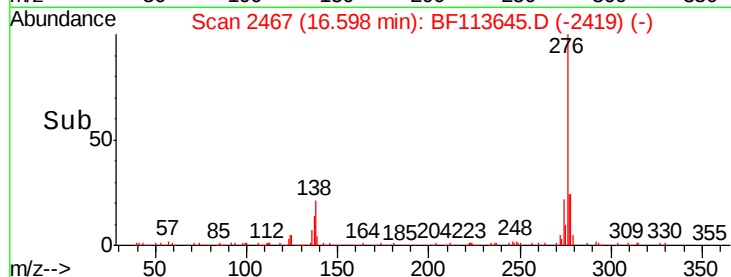
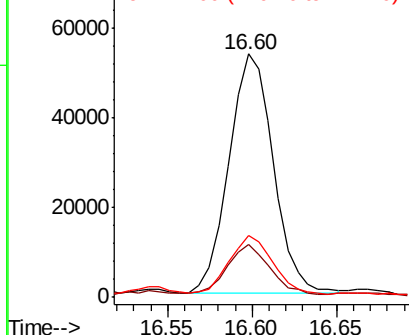
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.1  | 18.1  | 27.1  |
| 277     | 23.8  | 20.2  | 30.4  |

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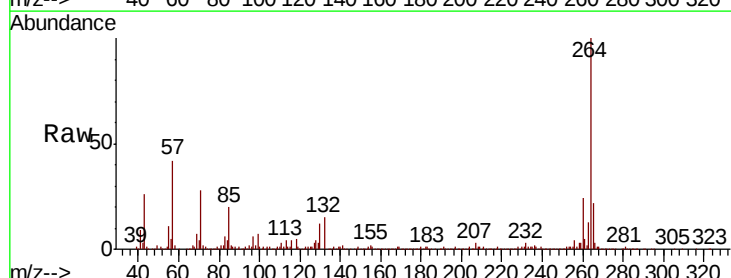


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

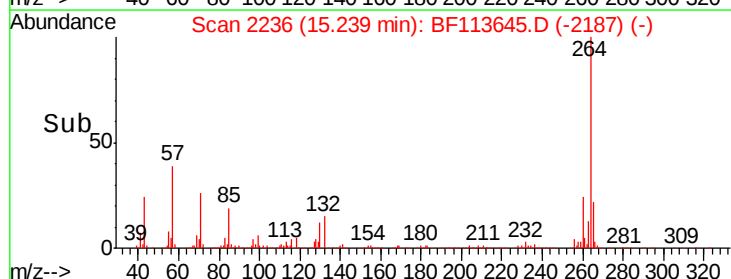
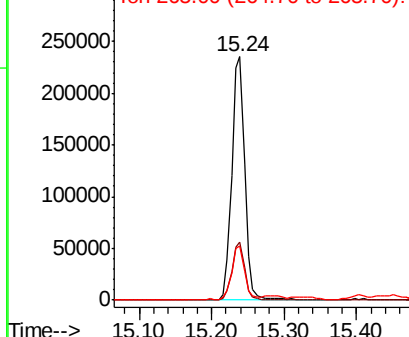


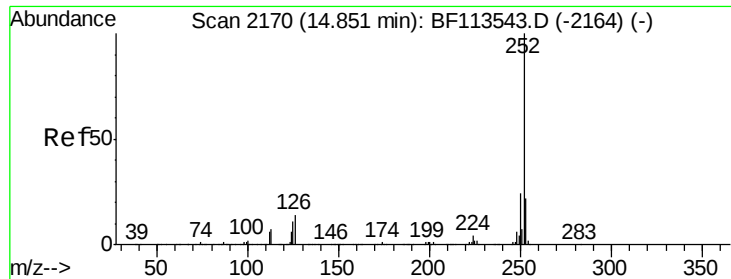
#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.24 min Scan# 2236  
 Delta R.T. -0.01 min  
 Lab File: BF113645.D  
 Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.1  | 28.7  |
| 265     | 22.0  | 17.1  | 25.7  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E





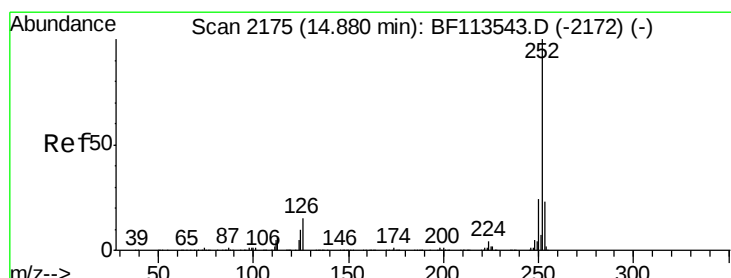
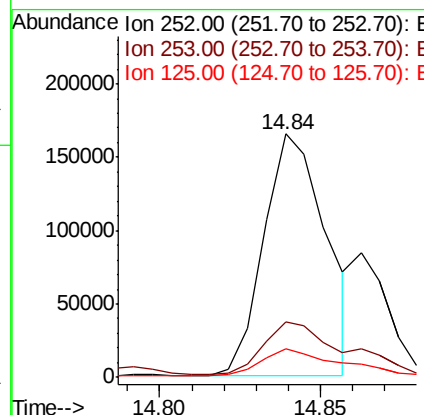
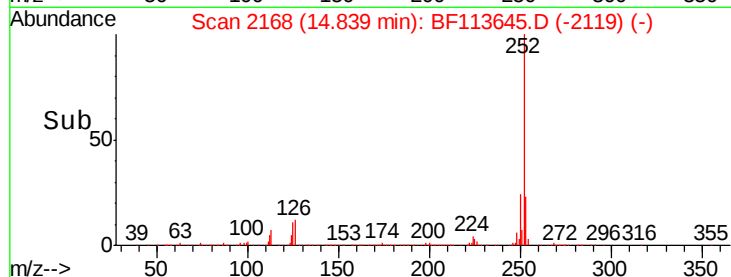
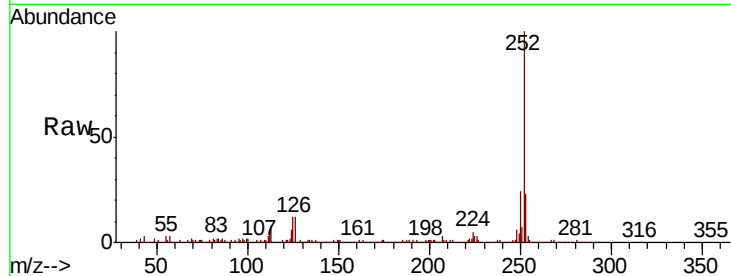
#88  
Benzo(b)fluoranthene  
Concen: 12.366 ng m  
RT: 14.84 min Scan# 2168  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampleId :  
293-72-11966-238

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.0  | 27.0  |
| 125     | 11.6  | 7.6   | 11.4  |

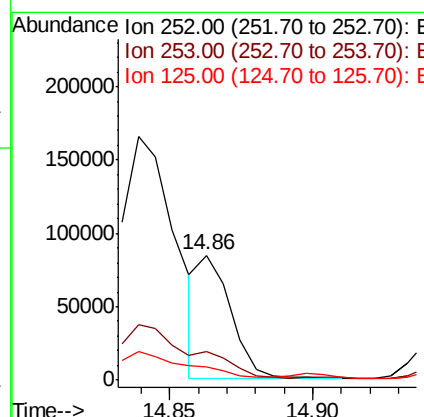
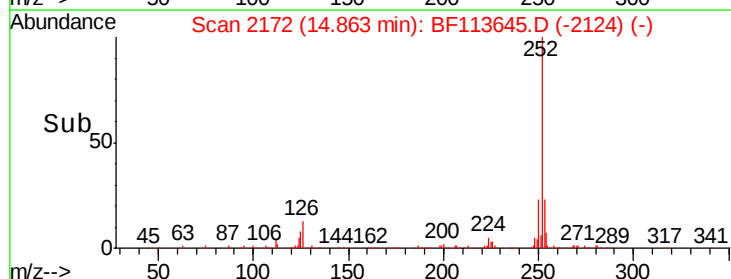
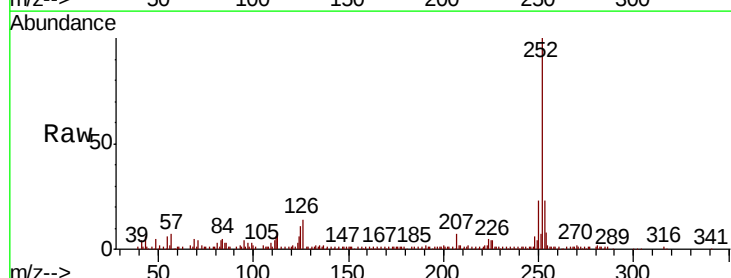
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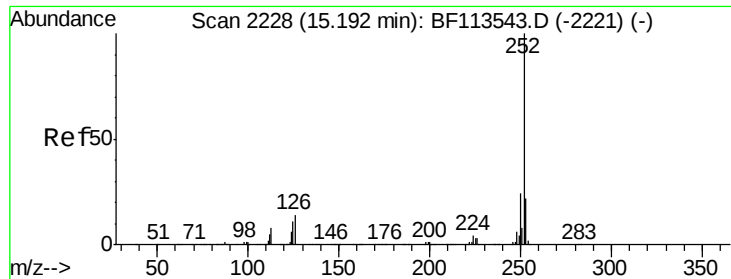
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#89  
Benzo(k)fluoranthene  
Concen: 4.086 ng m  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.02 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.7  | 26.5  |
| 125     | 10.7  | 7.3   | 10.9  |





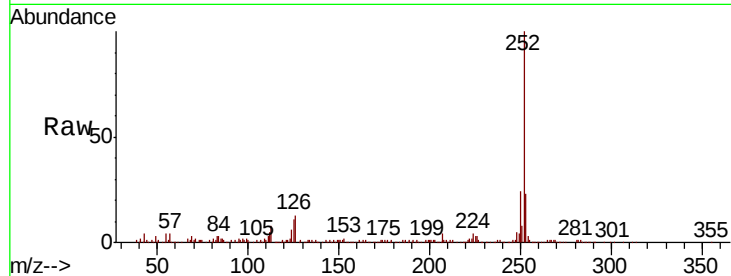
#90  
Benzo(a)pyrene  
Concen: 9.920 ng  
RT: 15.18 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

Instrument :  
BNA\_F  
ClientSampleId :  
293-72-11966-238

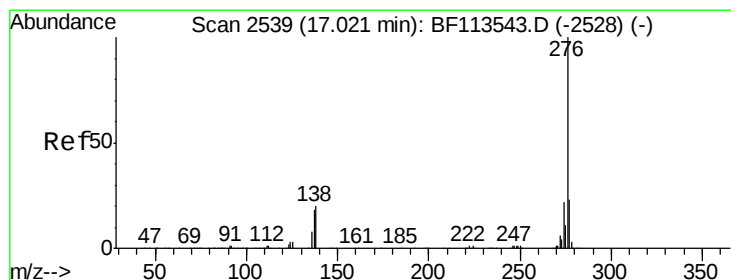
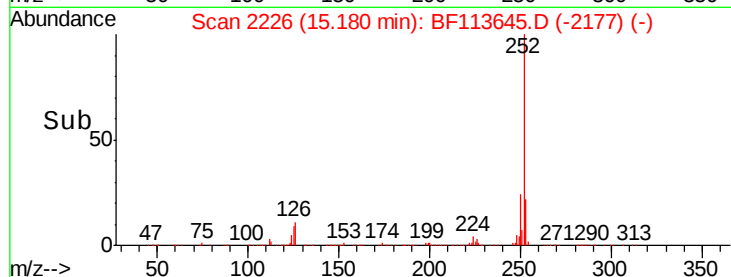
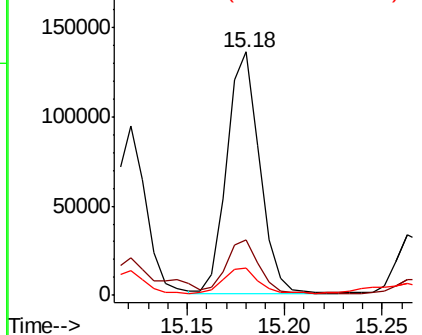
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 159111 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.9  | 26.9   |
| 125       | 11.5  | 8.8   | 13.2   |

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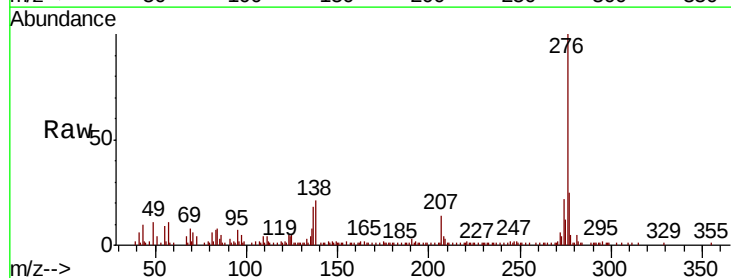


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 6.001 ng  
RT: 17.01 min Scan# 2537  
Delta R.T. -0.01 min  
Lab File: BF113645.D  
Acq: 8 Apr 2019 17:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 91877 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.8  | 18.8  | 28.2  |
| 138       | 20.7  | 15.6  | 23.4  |



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

