

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040919\  
 Data File : BF113663.D  
 Acq On : 9 Apr 2019 16:06  
 Operator : JU/SJ  
 Sample : K2316-09  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20190177-AMND-COMP-CS-4

Manual Integrations  
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 4/10/2019 6:20:37 PM

Quant Time: Apr 10 06:04:54 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  | 99533    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.96  | 136  | 378709   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.71  | 164  | 184398   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.19 | 188  | 380497   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 13.83 | 240  | 305530   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.23 | 264  | 283897   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 505316   | 86.57  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.33  | 99   | 786924   | 109.39 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 493312   | 76.30  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.50 | 330  | 202267   | 91.31  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.03  | 172  | 904932   | 79.01  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.77 | 244  | 1051740  | 70.09  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 50) Dimethylphthalate          | 9.43  | 163  | 123068   | 9.054  | ng    | 100      |
| 71) Phenanthrene               | 11.22 | 178  | 176859   | 9.354  | ng    | 97       |
| 72) Anthracene                 | 11.27 | 178  | 42582    | 2.214  | ng    | 99       |
| 75) Fluoranthene               | 12.40 | 202  | 316111   | 15.602 | ng    | 98       |
| 78) Pyrene                     | 12.63 | 202  | 259103   | 11.145 | ng    | 98       |
| 81) Benzo(a)anthracene         | 13.82 | 228  | 132604   | 7.524  | ng    | 99       |
| 83) Chrysene                   | 13.85 | 228  | 114655   | 6.417  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 13.80 | 149  | 392558   | 34.310 | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene     | 16.60 | 276  | 52252    | 3.168  | ng    | 100      |
| 88) Benzo(b)fluoranthene       | 14.84 | 252  | 137383m  | 7.906  | ng    |          |
| 89) Benzo(k)fluoranthene       | 14.86 | 252  | 37405m   | 2.398  | ng    |          |
| 90) Benzo(a)pyrene             | 15.18 | 252  | 89388    | 5.789  | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 17.00 | 276  | 50706    | 3.440  | ng    | # 93     |

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

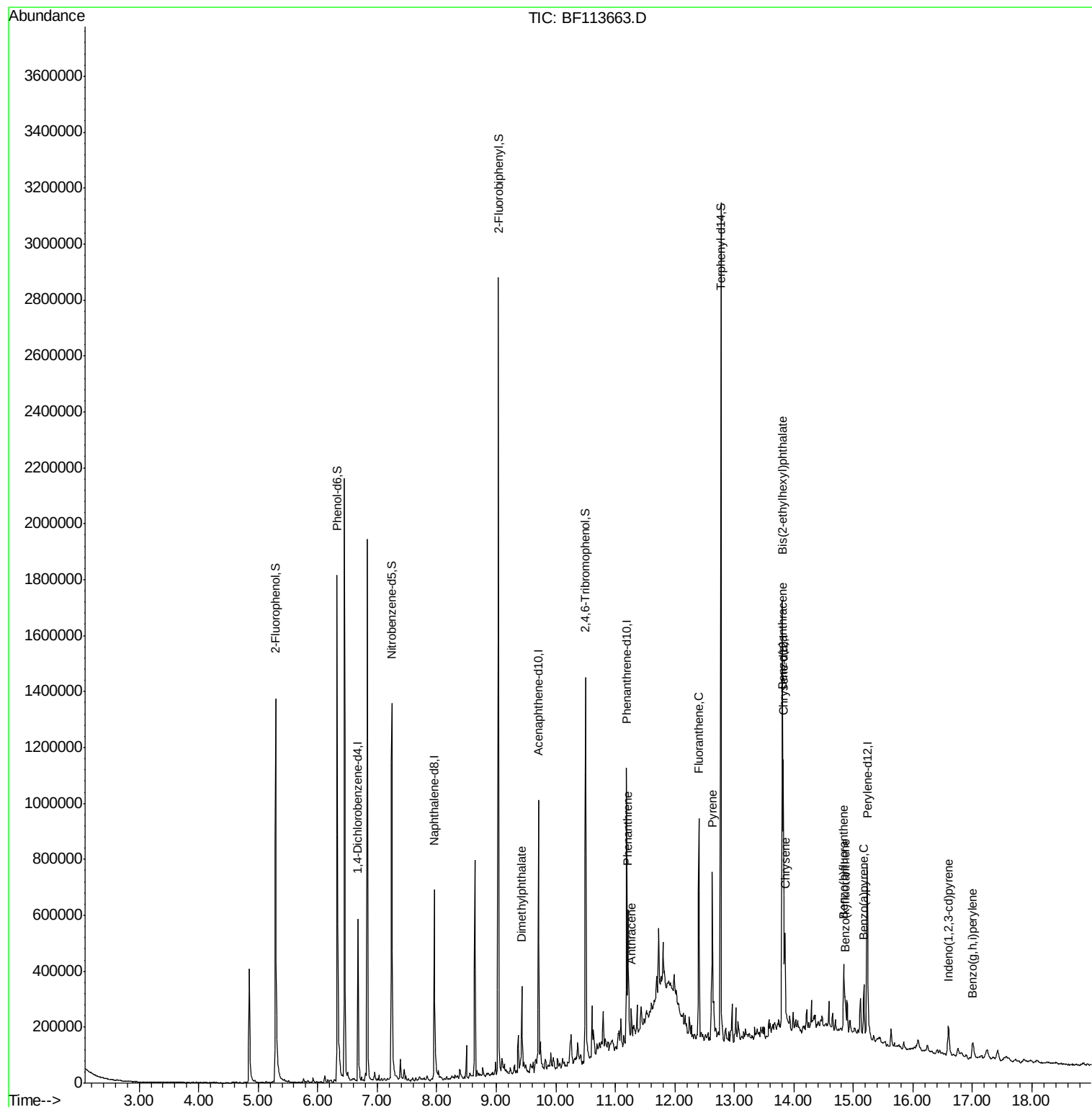
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040919\  
Data File : BF113663.D  
Acq On : 9 Apr 2019 16:06  
Operator : JU/SJ  
Sample : K2316-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

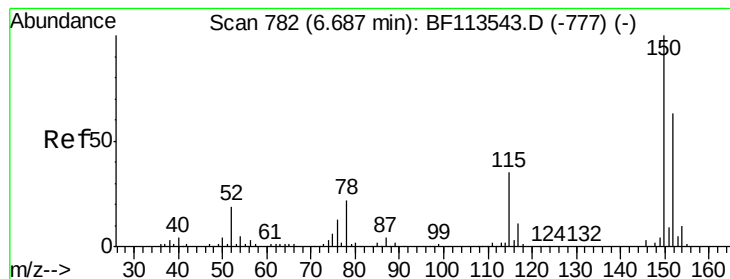
Instrument :  
BNA\_F  
ClientSampleId :  
20190177-AMND-COMP-CS-4

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Quant Time: Apr 10 06:04:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
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QLast Update : Thu Apr 04 04:05:31 2019  
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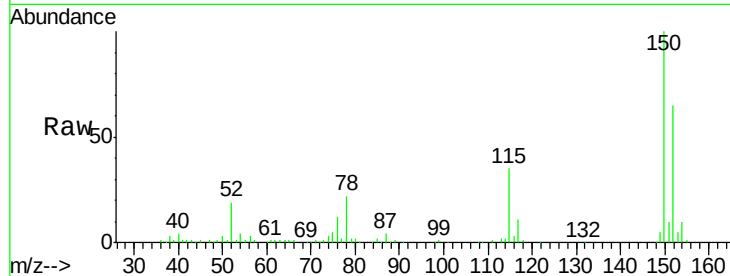
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.68 min Scan# 781  
 Delta R.T. -0.01 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.0 | 124.7 | 187.1 |
| 115     | 53.4  | 46.0  | 69.0  |

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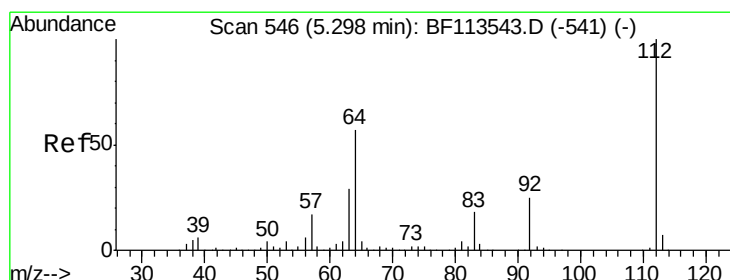
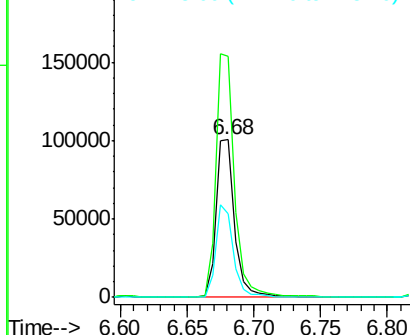
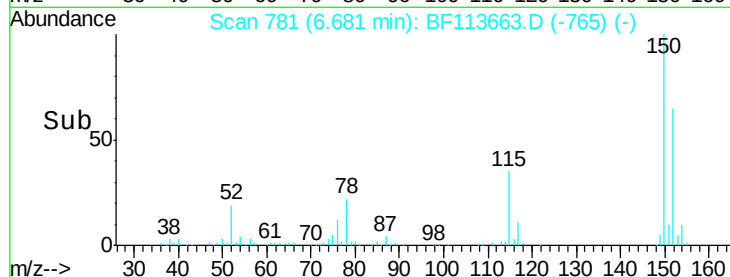


Abundance

Ion 152.00 (151.70 to 152.70): E

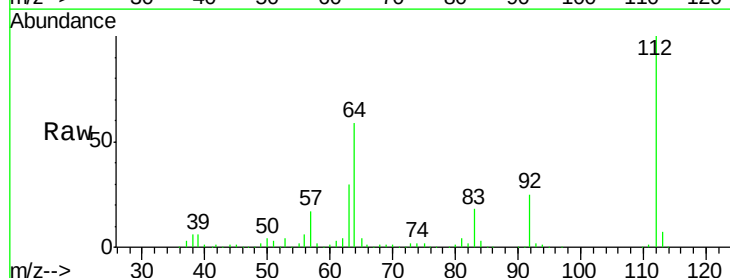
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5  
 2-Fluorophenol  
 Concen: 86.572 ng  
 RT: 5.29 min Scan# 545  
 Delta R.T. -0.01 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.7  | 49.2  | 73.8  |
| 63      | 29.5  | 24.9  | 37.3  |

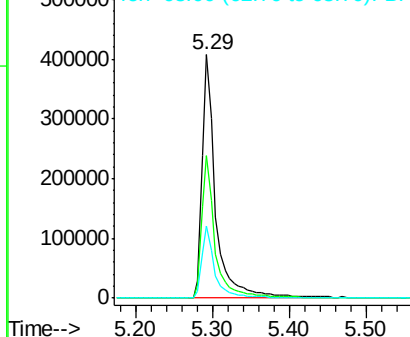
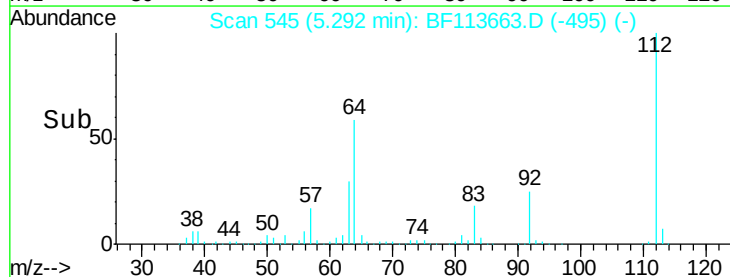


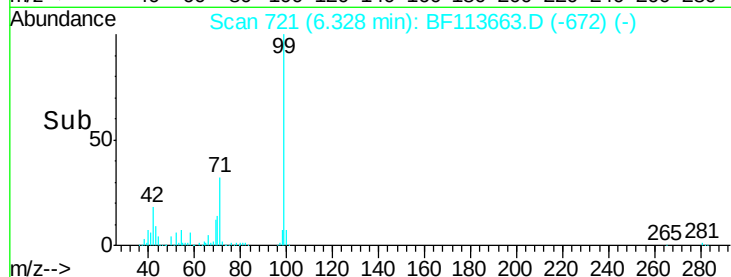
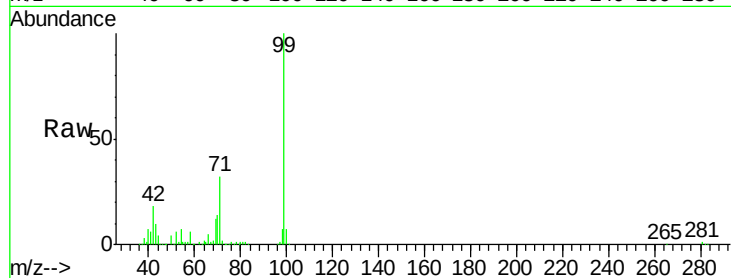
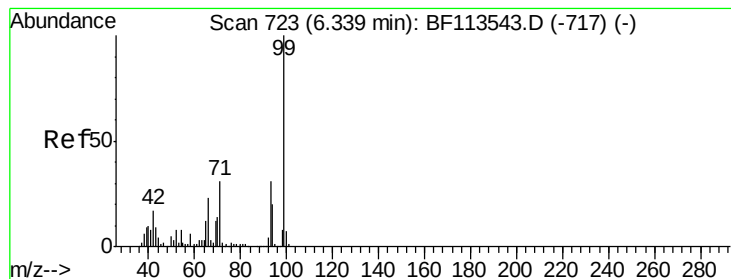
Abundance

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





#7

Phenol-d6

Concen: 109.385 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113663.D

Acq: 9 Apr 2019 16:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 786924 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.3  | 14.8  | 22.2   |
| 71       | 31.6  | 24.9  | 37.3   |

Instrument :

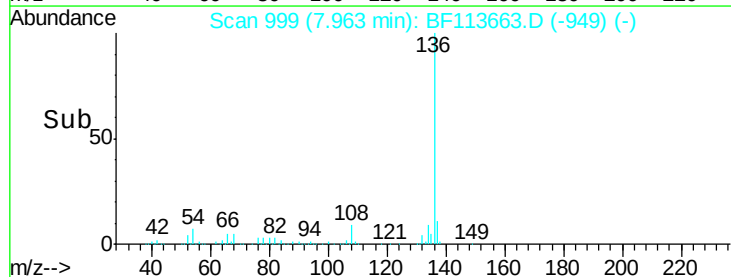
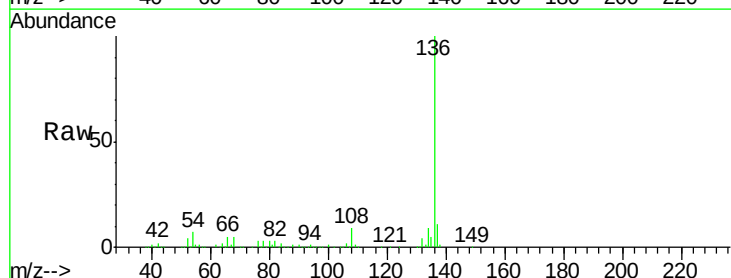
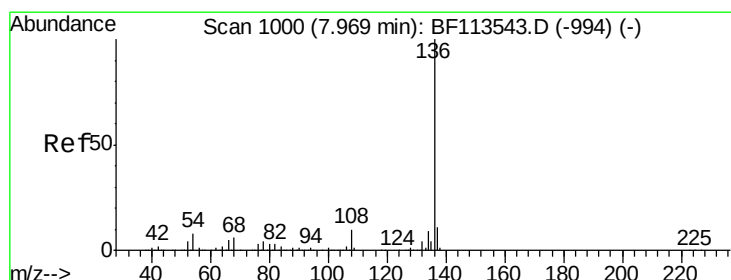
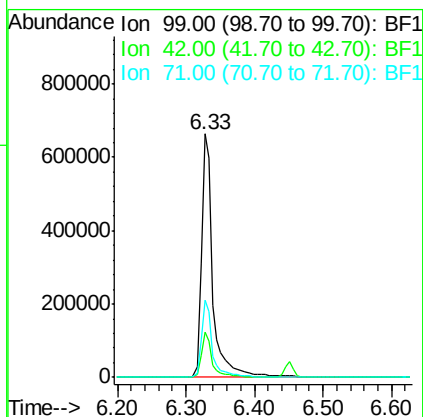
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ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.000 ng

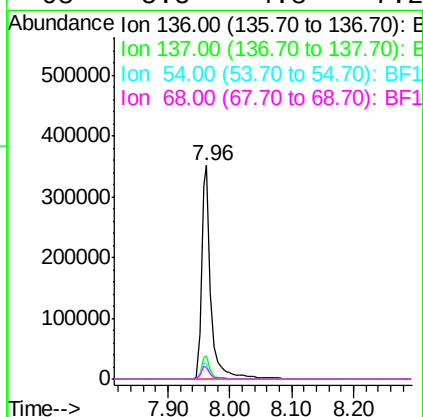
RT: 7.96 min Scan# 999

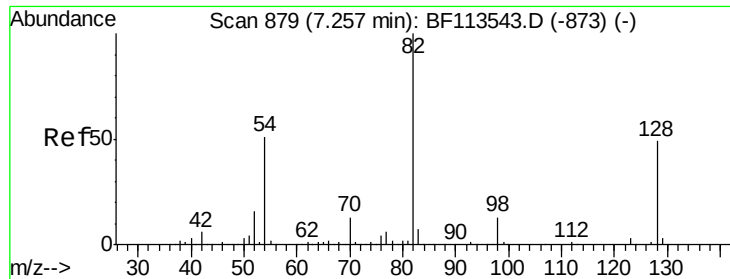
Delta R.T. -0.01 min

Lab File: BF113663.D

Acq: 9 Apr 2019 16:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 378709 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.9   | 13.3   |
| 54       | 7.2   | 7.0   | 10.6   |
| 68       | 5.5   | 4.8   | 7.2    |





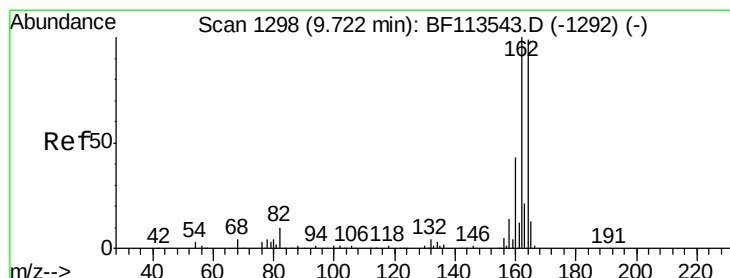
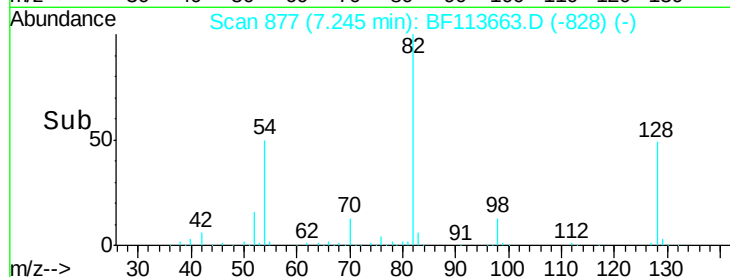
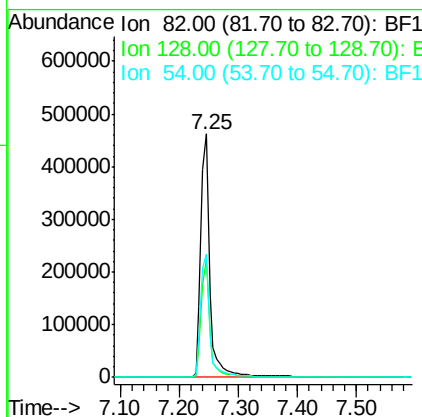
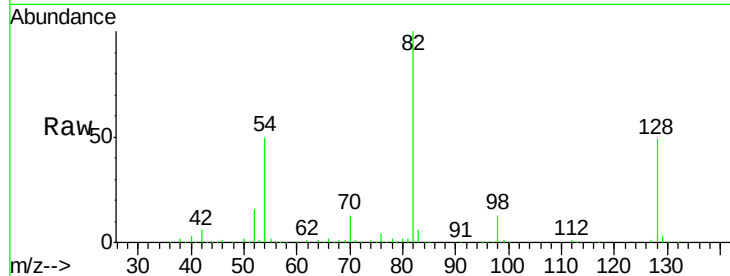
#23  
Nitrobenzene-d5  
Concen: 76.301 ng  
RT: 7.25 min Scan# 877  
Delta R.T. -0.01 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 493312 |       |       |
| 128     | 48.6  | 36.5   | 54.7  |       |
| 54      | 50.4  | 42.2   | 63.2  |       |

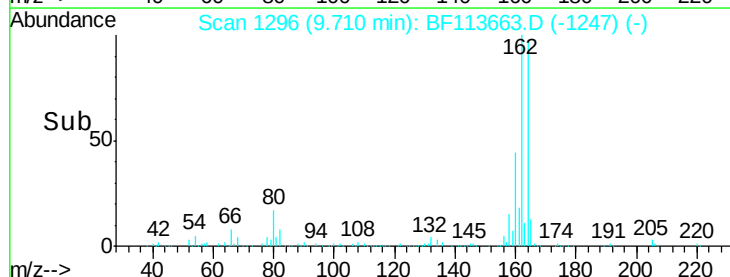
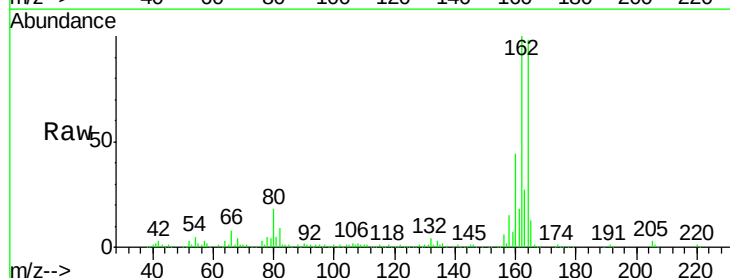
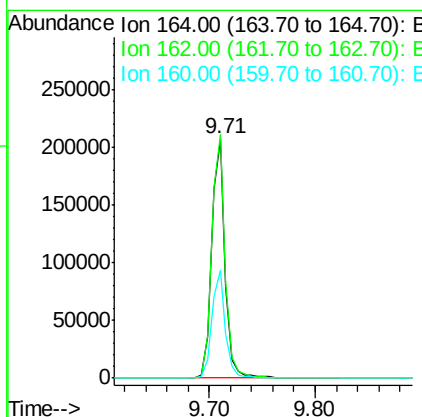
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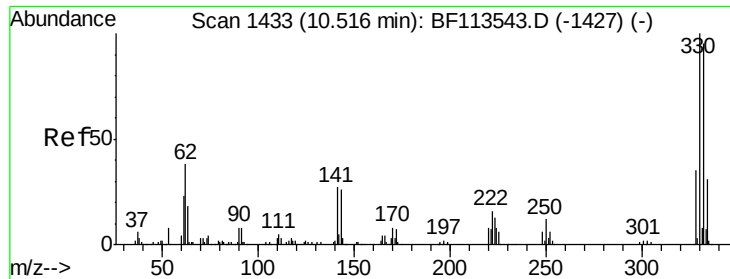
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.71 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 184398 |       |       |
| 162     | 101.9 | 81.8   | 122.6 |       |
| 160     | 45.1  | 36.4   | 54.6  |       |





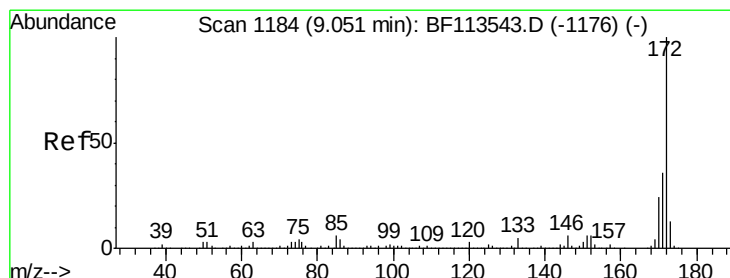
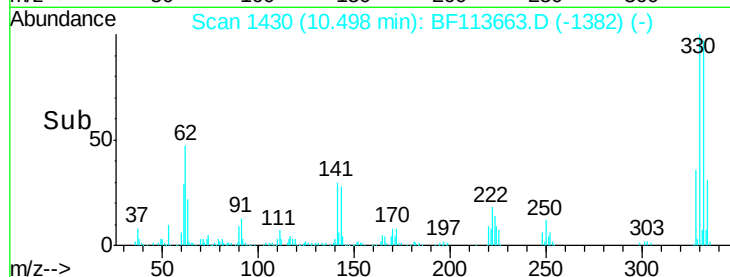
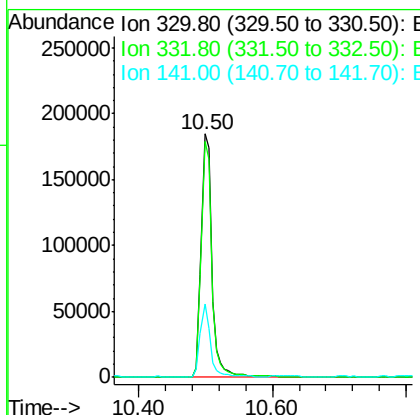
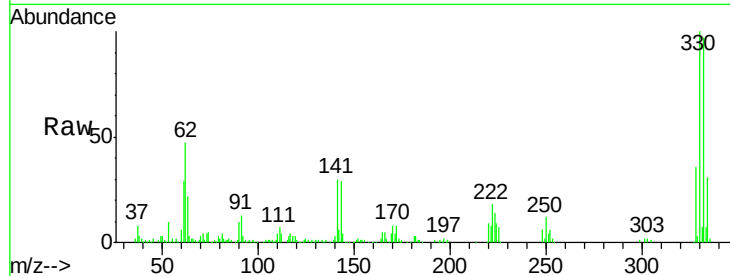
#42  
 2,4,6-Tribromophenol  
 Concen: 91.314 ng  
 RT: 10.50 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 202267 |       |       |
| 332     | 95.1  | 77.8   | 116.6 |       |
| 141     | 27.2  | 22.7   | 34.1  |       |

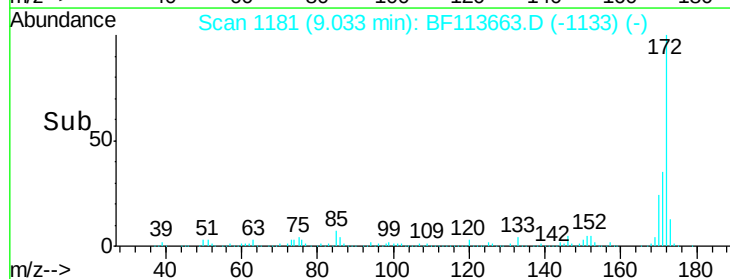
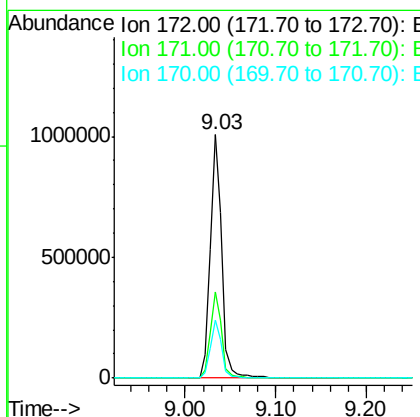
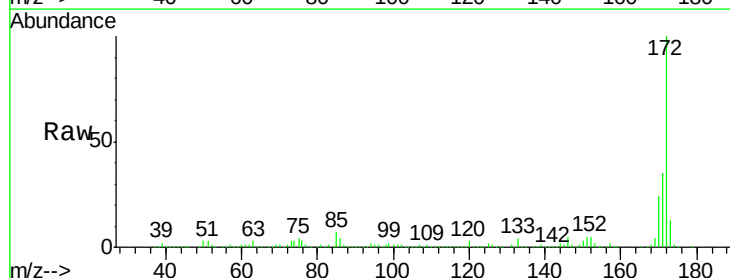
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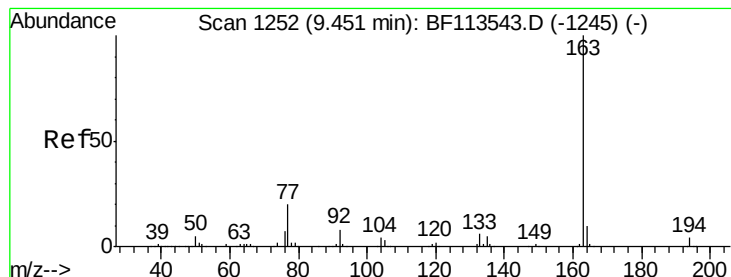
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#45  
 2-Fluorobiphenyl  
 Concen: 79.005 ng  
 RT: 9.03 min Scan# 1181  
 Delta R.T. -0.02 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 904932 |       |       |
| 171     | 35.4  | 29.0   | 43.6  |       |
| 170     | 23.9  | 19.5   | 29.3  |       |





#50

Dimethylphthalate

Concen: 9.054 ng

RT: 9.43 min Scan# 1248

Delta R.T. -0.02 min

Lab File: BF113663.D

Acq: 9 Apr 2019 16:06

Instrument :

BNA\_F

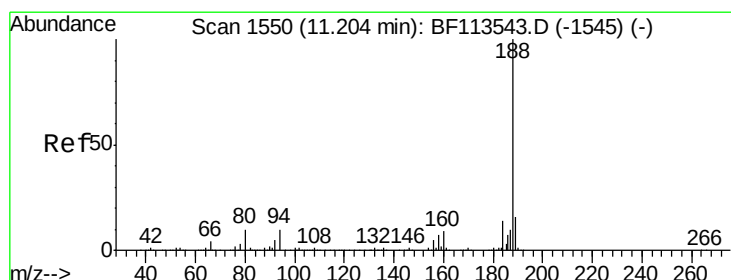
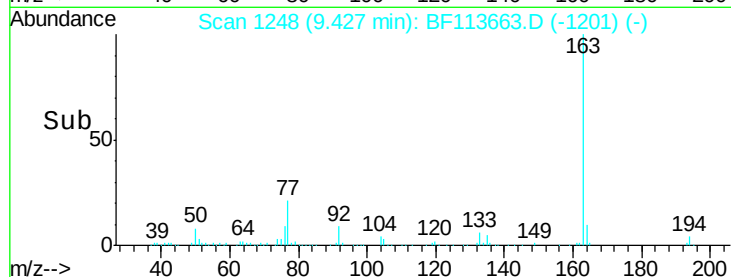
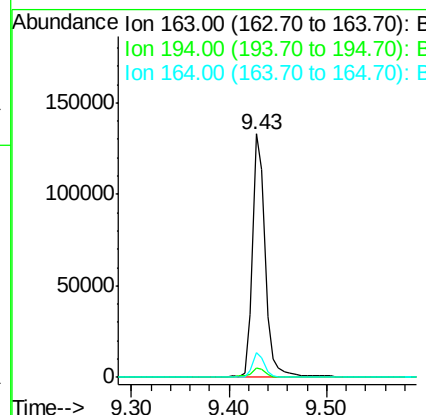
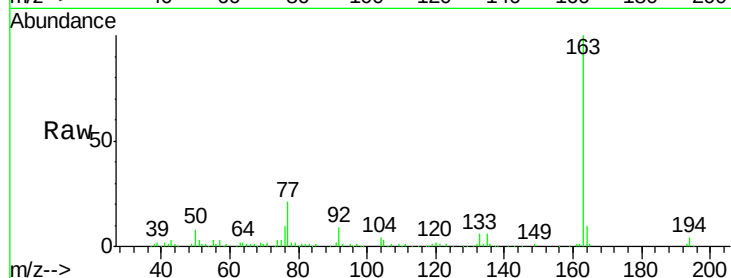
ClientSampleId :

20190177-AMND-COMP-CS-4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 123068 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.8   | 3.0   | 4.6    |
| 164       | 10.2  | 8.1   | 12.1   |

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#64

Phenanthrene-d10

Concen: 20.000 ng

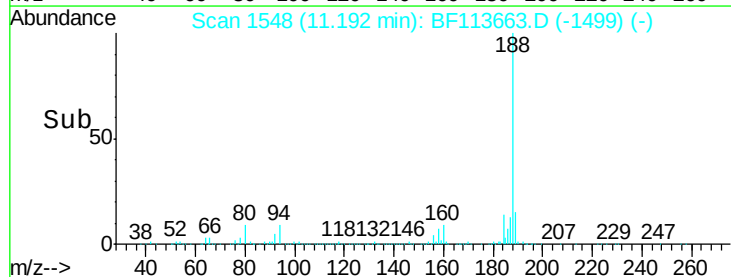
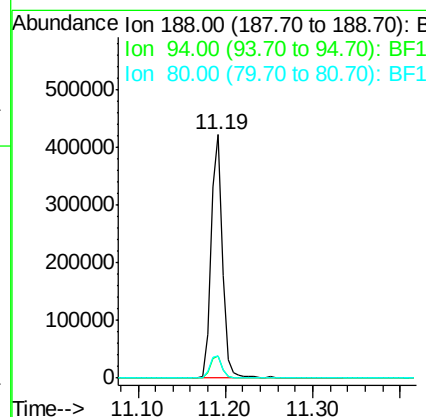
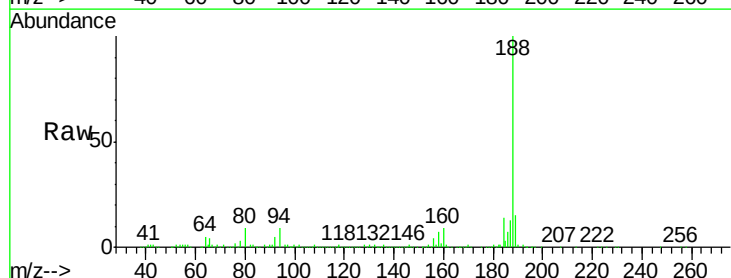
RT: 11.19 min Scan# 1548

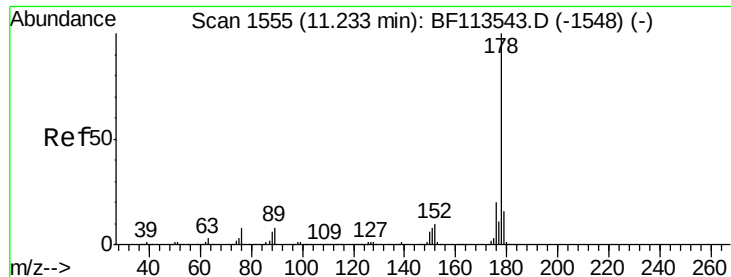
Delta R.T. -0.01 min

Lab File: BF113663.D

Acq: 9 Apr 2019 16:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 380497 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.9   | 7.0   | 10.6   |
| 80        | 9.0   | 7.7   | 11.5   |





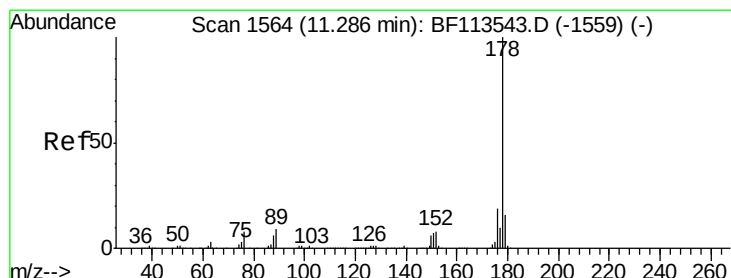
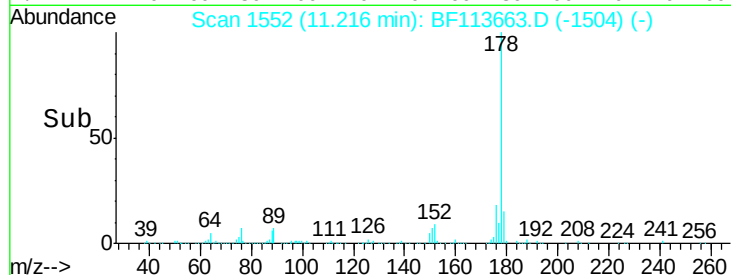
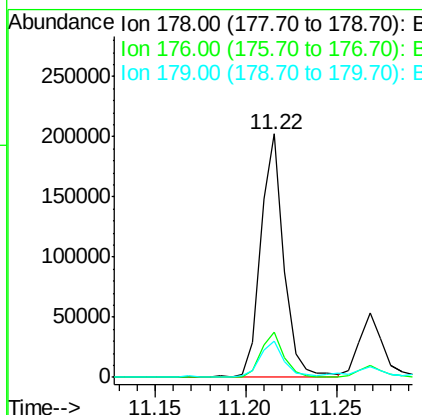
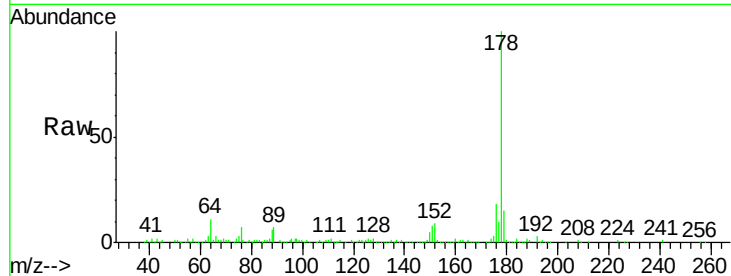
#71  
Phenanthrene  
Concen: 9.354 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.02 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 176859 |       |       |
| 176     | 18.5  | 16.2   | 24.2  |       |
| 179     | 14.8  | 12.7   | 19.1  |       |

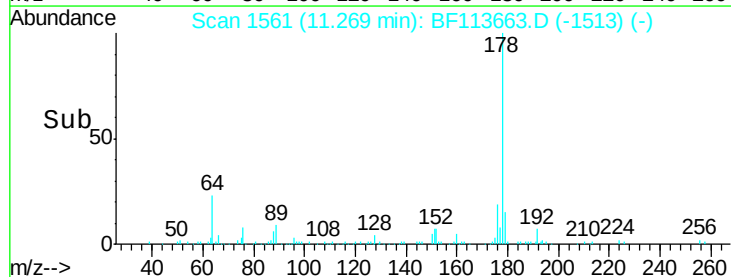
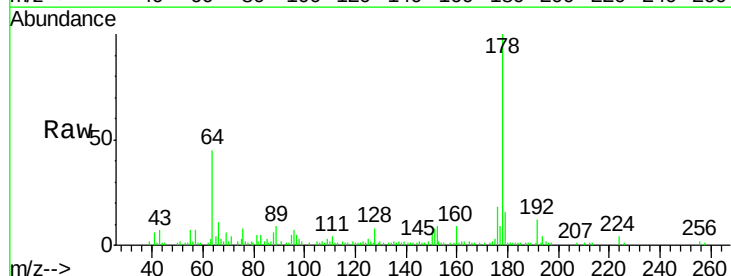
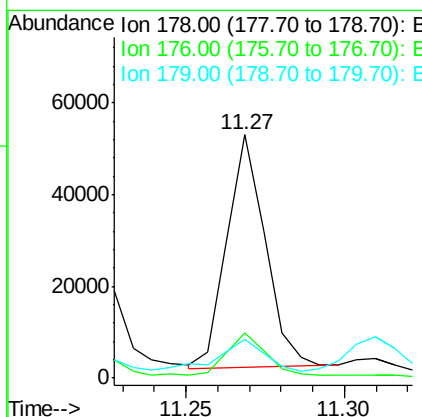
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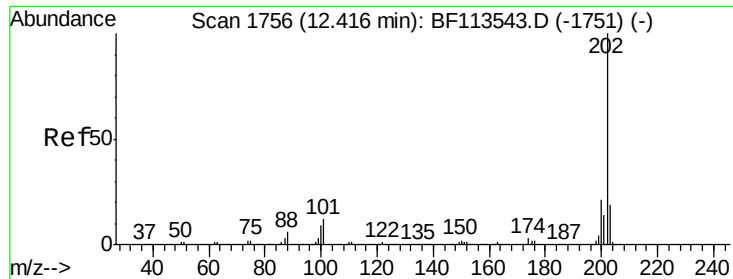


#72  
Anthracene  
Concen: 2.214 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. -0.02 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 42582 |       |       |
| 176     | 18.5  | 15.4  | 23.2  |       |
| 179     | 15.7  | 12.8  | 19.2  |       |







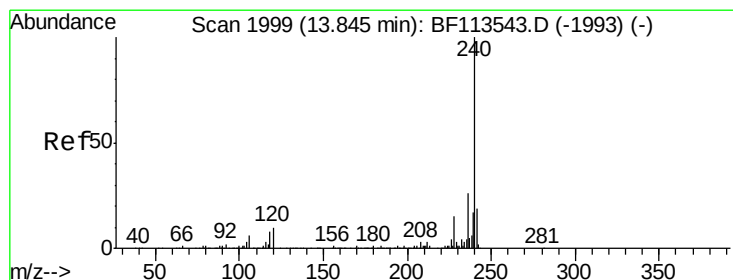
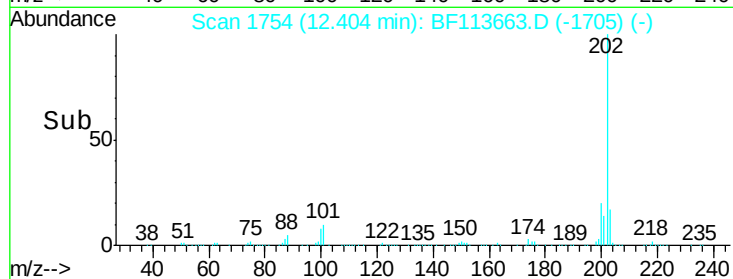
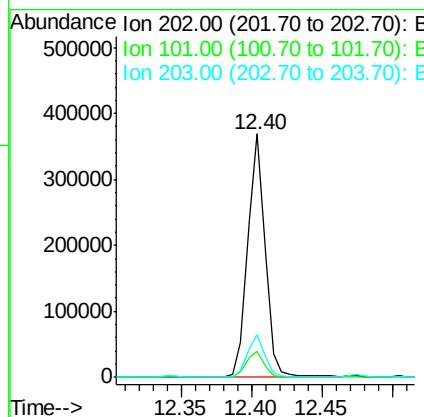
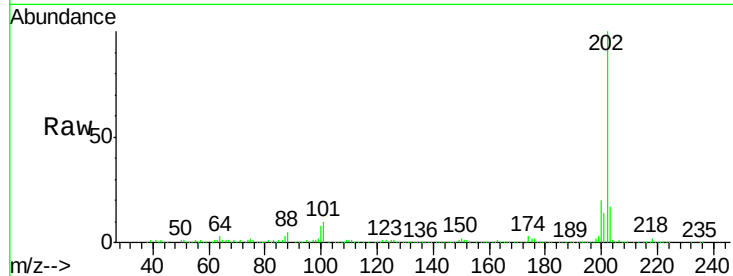
#75  
 Fluoranthene  
 Concen: 15.602 ng  
 RT: 12.40 min Scan# 1754  
 Delta R.T. -0.01 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.5  | 0.0        | 31.4       |
| 203     | 17.5  | 0.0        | 38.0       |

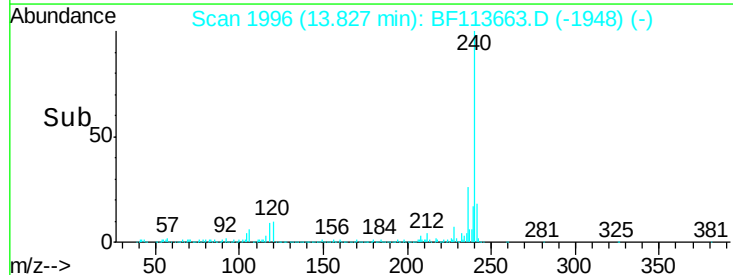
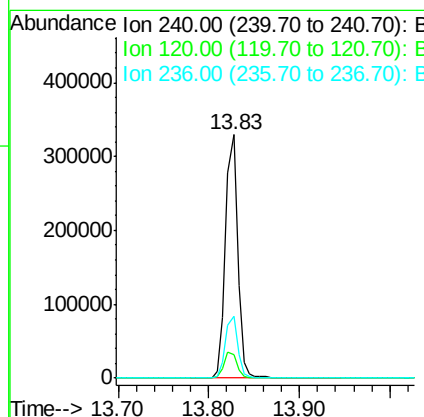
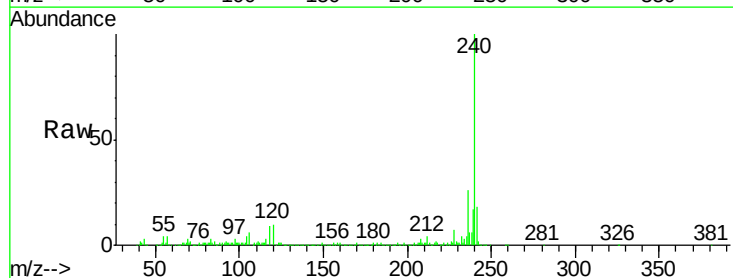
Manual Integrations  
 APPROVED

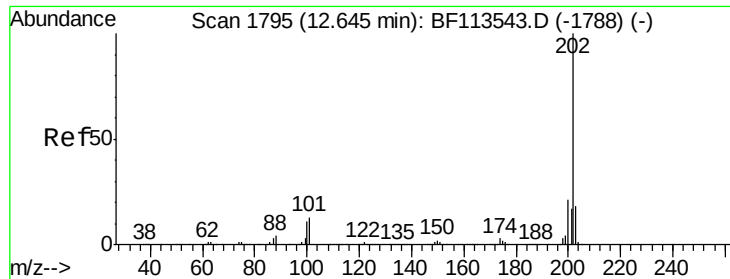
Sohil  
 4/10/2019 6:20:37 PM



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.83 min Scan# 1996  
 Delta R.T. -0.02 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 9.8   | 8.8        | 13.2       |
| 236     | 25.6  | 20.9       | 31.3       |





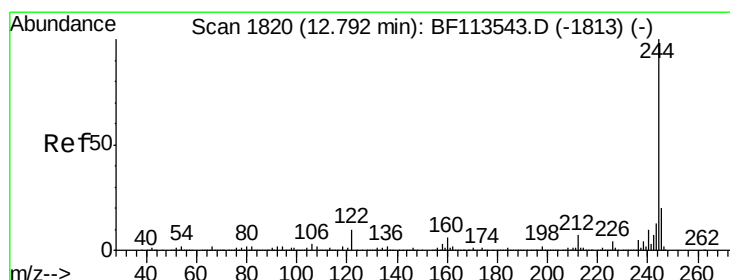
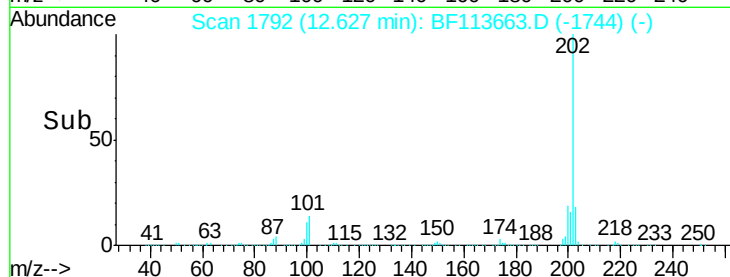
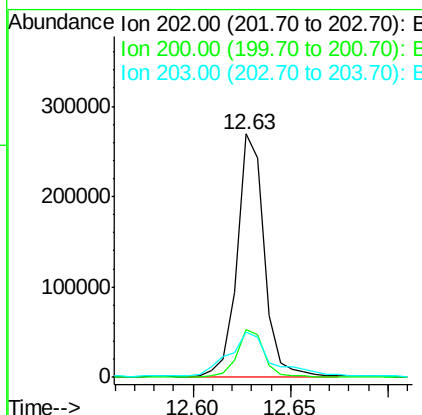
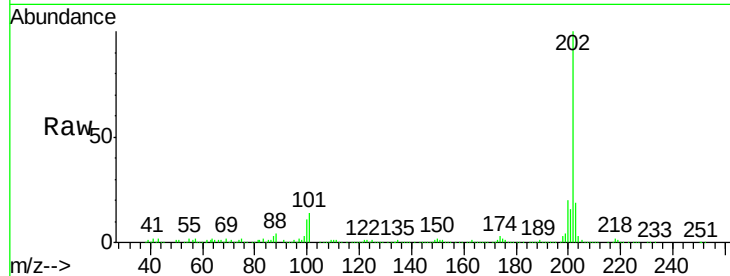
#78  
 Pyrene  
 Concen: 11.145 ng  
 RT: 12.63 min Scan# 1792  
 Delta R.T. -0.02 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 259103 |       |       |
| 200     | 19.6  | 16.8   | 25.2  |       |
| 203     | 18.6  | 14.4   | 21.6  |       |

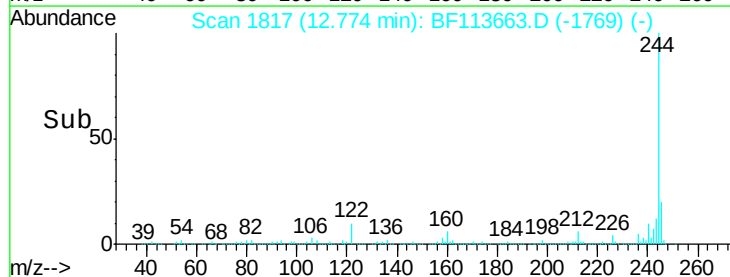
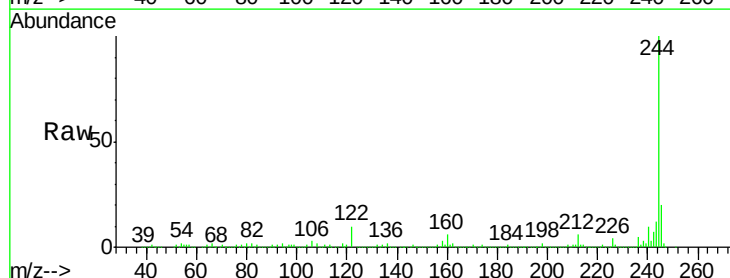
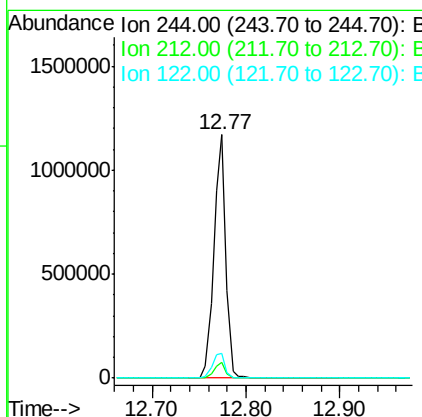
Manual Integrations  
 APPROVED

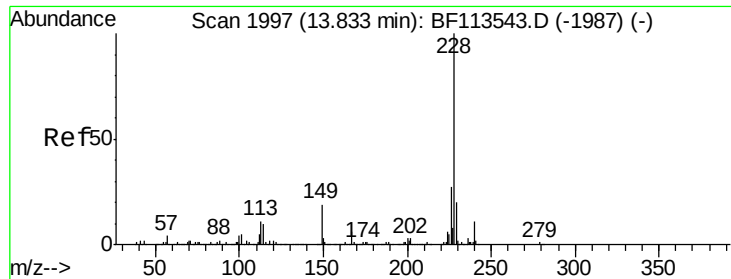
Sohil  
 4/10/2019 6:20:37 PM



#79  
 Terphenyl-d14  
 Concen: 70.087 ng  
 RT: 12.77 min Scan# 1817  
 Delta R.T. -0.02 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 244     | 100   | 1051740 |       |       |
| 212     | 6.5   | 5.5     | 8.3   |       |
| 122     | 10.0  | 8.6     | 13.0  |       |





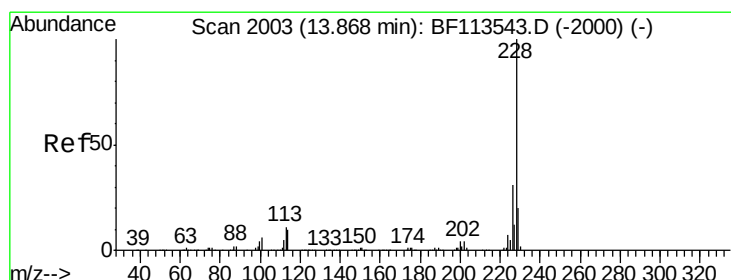
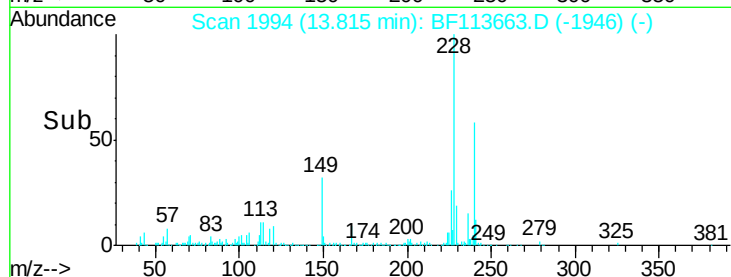
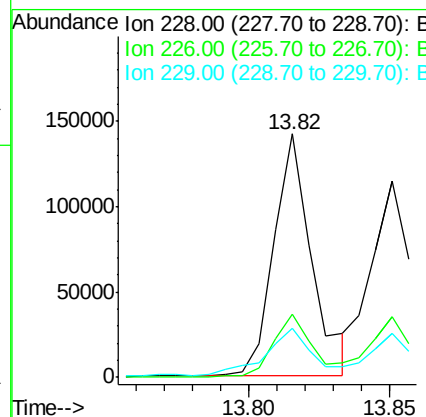
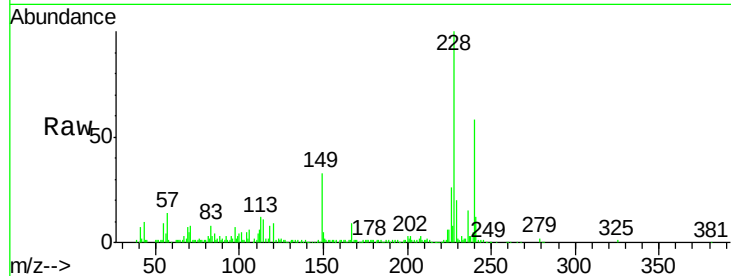
#81  
Benzo(a)anthracene  
Concen: 7.524 ng  
RT: 13.82 min Scan# 1994  
Delta R.T. -0.02 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.2  | 21.8  | 32.8  |
| 229     | 20.1  | 16.2  | 24.4  |

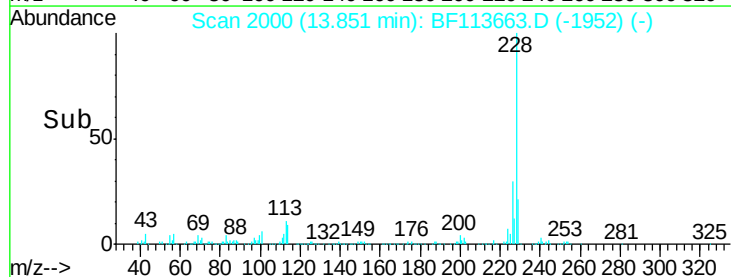
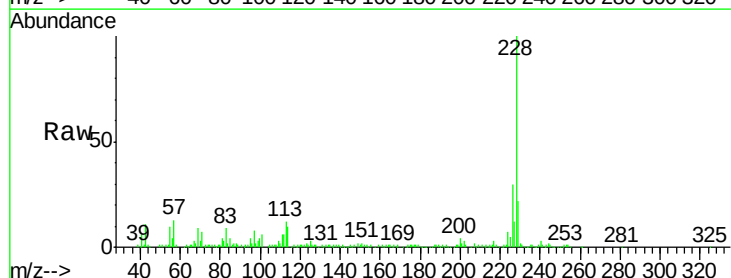
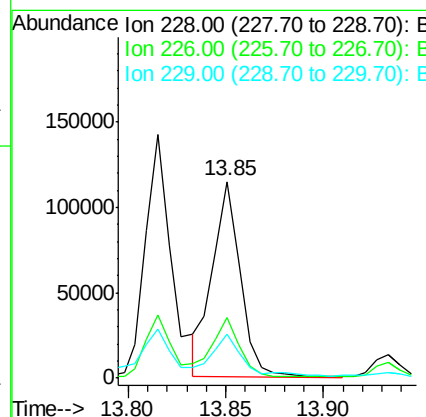
Manual Integrations  
APPROVED

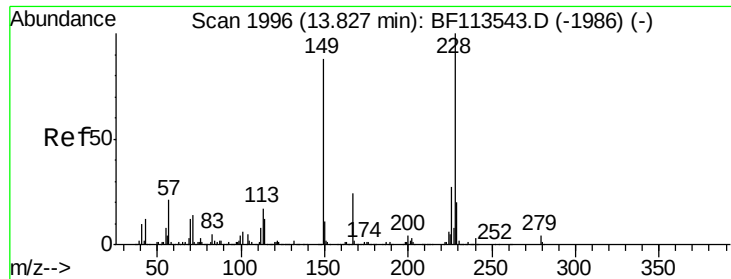
Sohil  
4/10/2019 6:20:37 PM



#83  
Chrysene  
Concen: 6.417 ng  
RT: 13.85 min Scan# 2000  
Delta R.T. -0.02 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 24.3  | 36.5  |
| 229     | 22.1  | 16.3  | 24.5  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 34.310 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.02 min

Lab File: BF113663.D

Acq: 9 Apr 2019 16:06

Instrument :

BNA\_F

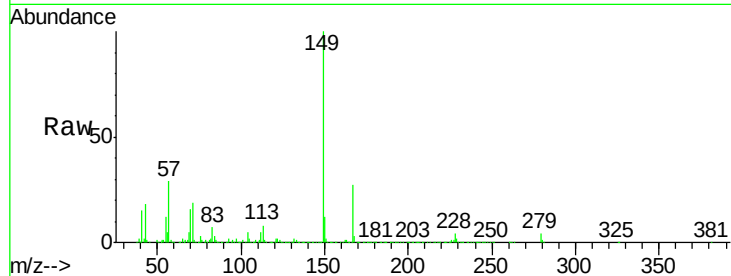
ClientSampleId :

20190177-AMND-COMP-CS-4

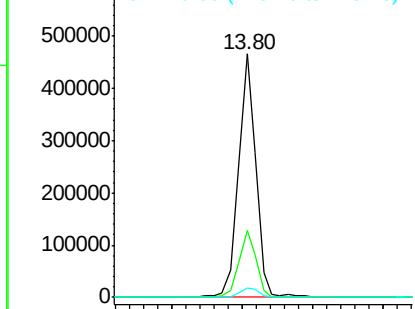
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 392558 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 27.5  | 21.8  | 32.8   |
| 279       | 4.1   | 2.9   | 4.3    |

Manual Integrations  
APPROVED

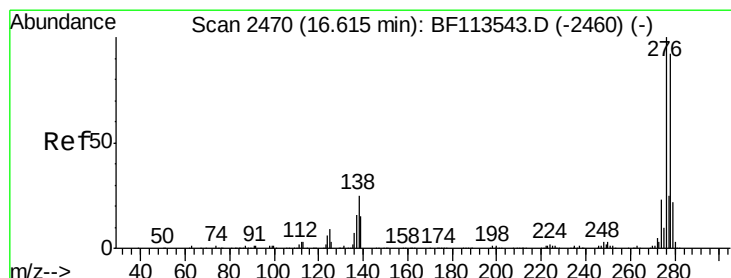
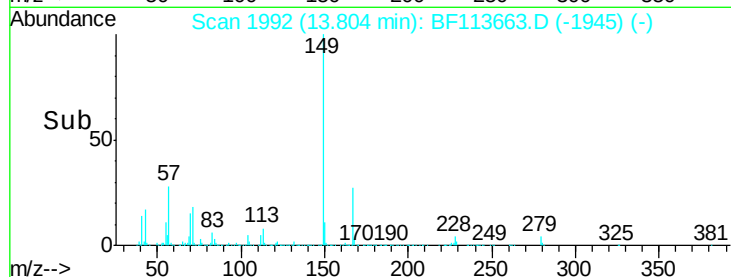
Sohil  
4/10/2019 6:20:37 PM



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



Time-->



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.168 ng

RT: 16.60 min Scan# 2467

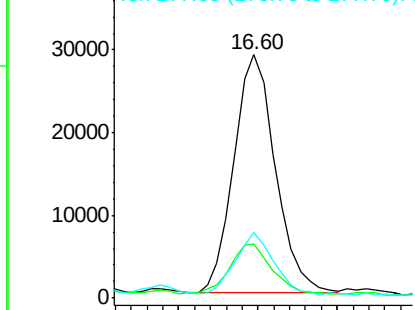
Delta R.T. -0.02 min

Lab File: BF113663.D

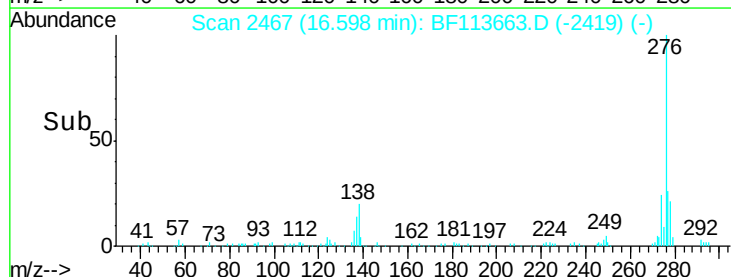
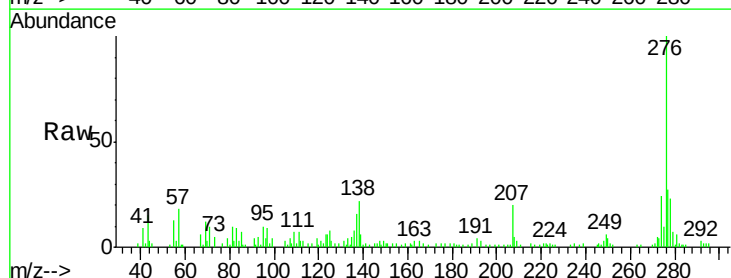
Acq: 9 Apr 2019 16:06

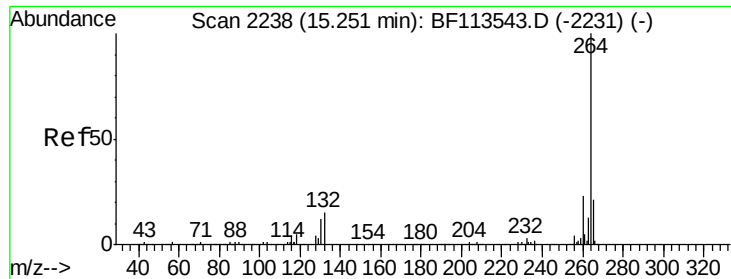
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 52252 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.7  | 18.1  | 27.1  |
| 277       | 25.1  | 20.2  | 30.4  |

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



Time-->





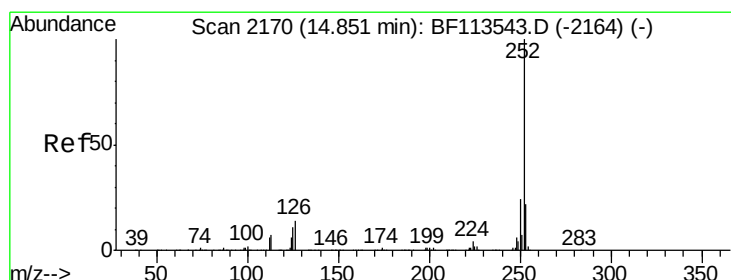
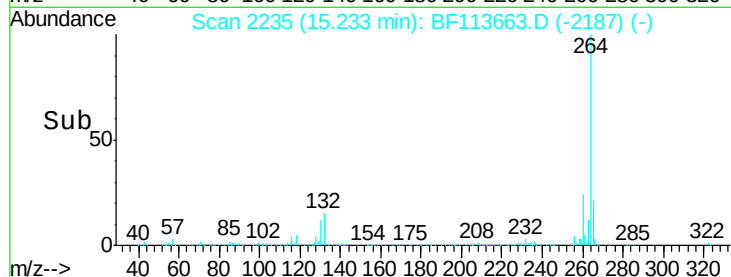
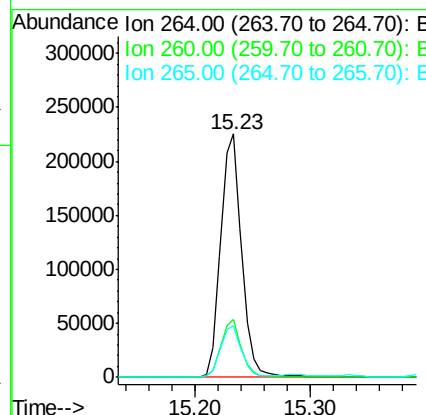
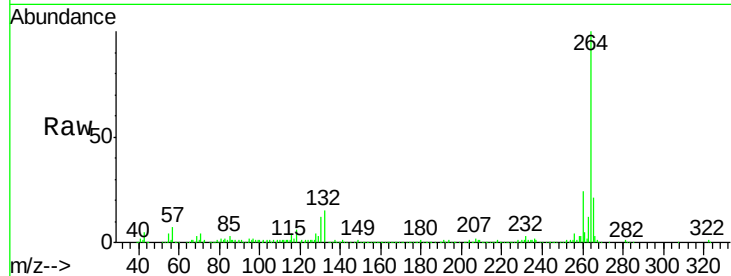
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.23 min Scan# 2235  
Delta R.T. -0.02 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 283897 |       |       |
| 260     | 24.1  | 19.1   | 28.7  |       |
| 265     | 21.3  | 17.1   | 25.7  |       |

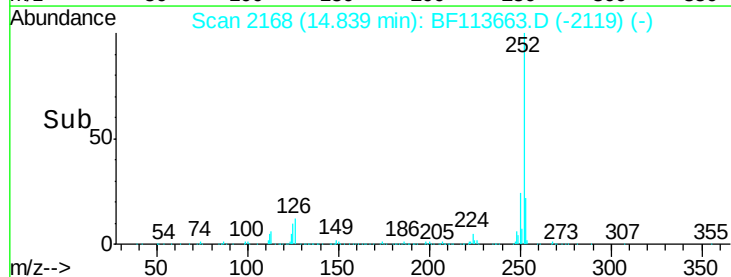
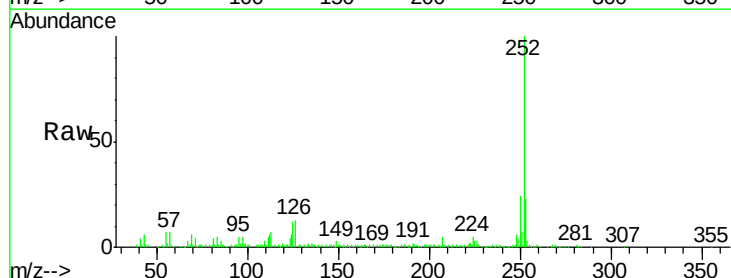
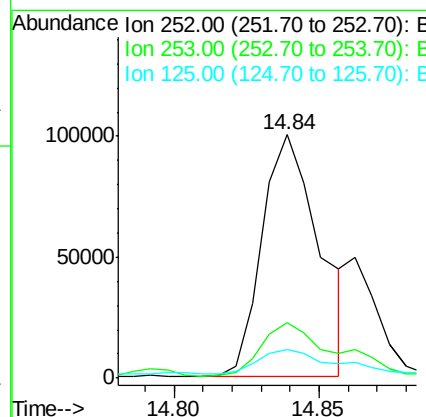
Manual Integrations  
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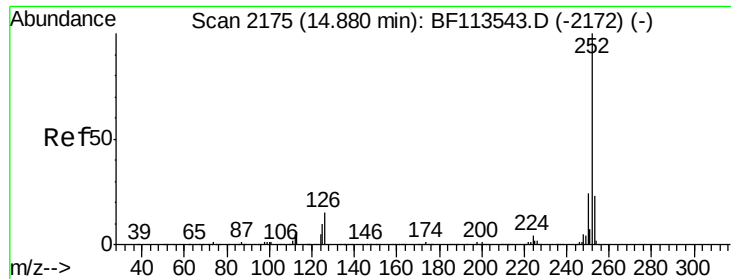
Sohil  
4/10/2019 6:20:37 PM



#88  
Benzo(b)fluoranthene  
Concen: 7.906 ng m  
RT: 14.84 min Scan# 2168  
Delta R.T. -0.01 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 137383 |       |       |
| 253     | 22.9  | 18.0   | 27.0  |       |
| 125     | 11.7  | 7.6    | 11.4  |       |





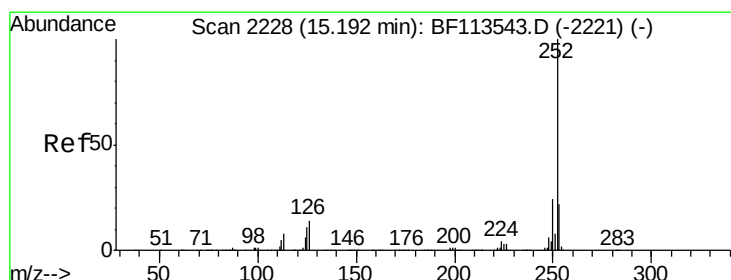
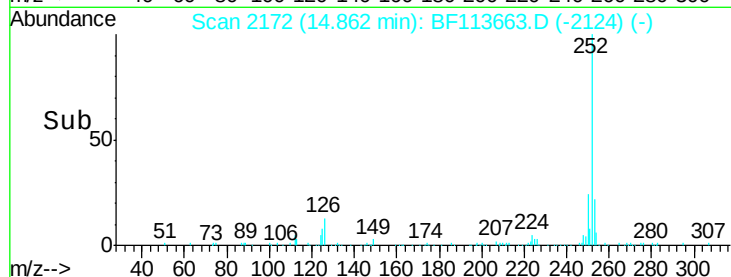
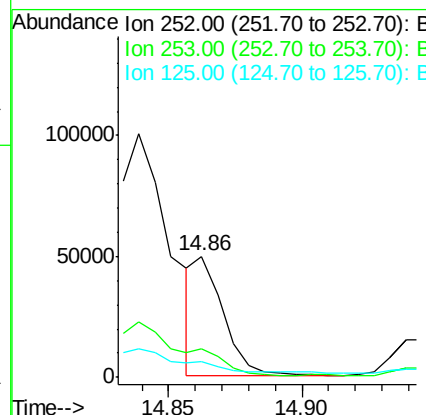
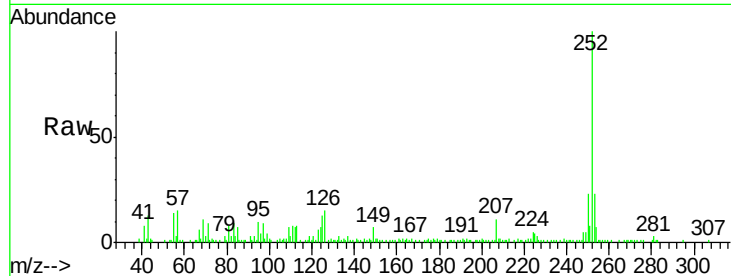
#89  
Benzo(k)fluoranthene  
Concen: 2.398 ng m  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.02 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.7  | 26.5  |
| 125     | 13.0  | 7.3   | 10.9  |

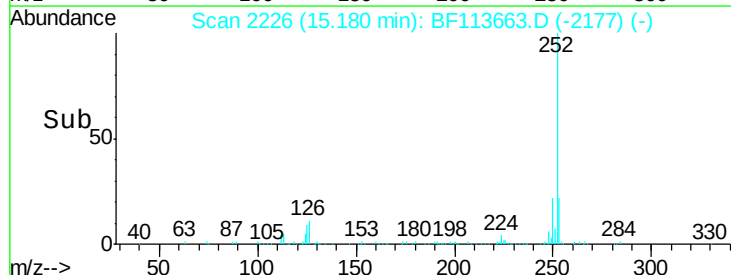
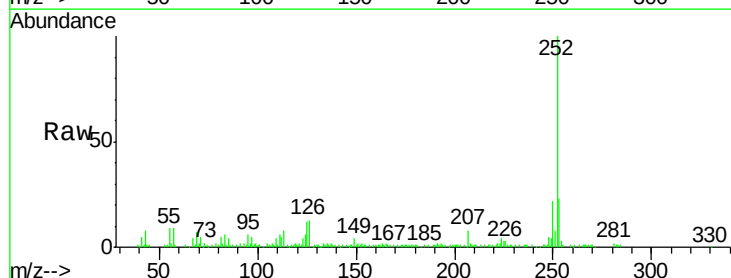
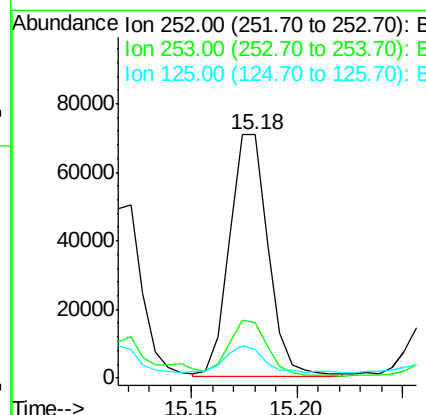
Manual Integrations  
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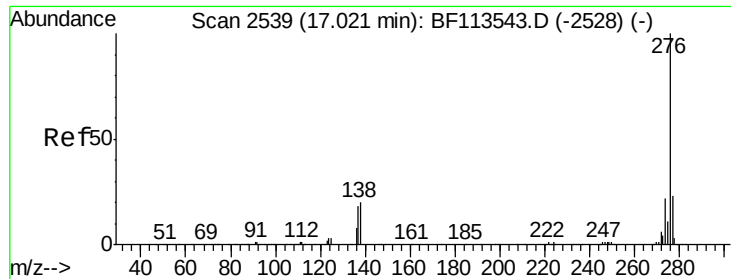
Sohil  
4/10/2019 6:20:37 PM



#90  
Benzo(a)pyrene  
Concen: 5.789 ng  
RT: 15.18 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BF113663.D  
Acq: 9 Apr 2019 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.9  | 26.9  |
| 125     | 11.8  | 8.8   | 13.2  |





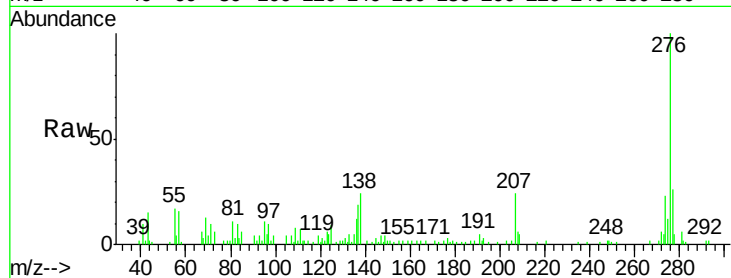
#92  
 Benzo(g,h,i)perylene  
 Concen: 3.440 ng  
 RT: 17.00 min Scan# 2536  
 Delta R.T. -0.02 min  
 Lab File: BF113663.D  
 Acq: 9 Apr 2019 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20190177-AMND-COMP-CS-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.6  | 18.8  | 28.2  |
| 138     | 24.2  | 15.6  | 23.4  |

Manual Integrations  
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 4/10/2019 6:20:37 PM



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

