

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022020\  
 Data File : BF118969.D  
 Acq On : 20 Feb 2020 20:10  
 Operator : CG/JU  
 Sample : L1546-13  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 INDIAN-ISLAND-(7)

Manual Integrations  
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 2/21/2020 2:18:52 PM

Quant Time: Feb 21 02:35:22 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 20 17:40:17 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.76  | 152  | 212070   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.04  | 136  | 791560   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.79  | 164  | 411072   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.27 | 188  | 679214   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.90 | 240  | 426234   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.33 | 264  | 476278   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 1245756  | 98.17  | ng    | 0.00     |
| 7) Phenol-d6                | 6.40  | 99   | 1526376  | 98.90  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 1008040  | 67.24  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.58 | 330  | 482843   | 89.79  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.12  | 172  | 1812774  | 64.96  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.86 | 244  | 1554788  | 62.80  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 32) Benzoic acid            | 7.77  | 122  | 4164     | 7.141  | ng    | 93       |
| 50) Dimethylphthalate       | 9.50  | 163  | 117672   | 3.743  | ng    | 99       |
| 71) Phenanthrene            | 11.29 | 178  | 309859   | 8.365  | ng    | 99       |
| 75) Fluoranthene            | 12.48 | 202  | 293670   | 7.469  | ng    | 99       |
| 78) Pyrene                  | 12.71 | 202  | 458710   | 13.402 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.89 | 228  | 162400   | 5.592  | ng    | 95       |
| 83) Chrysene                | 13.93 | 228  | 185236   | 6.401  | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.73 | 276  | 69406    | 2.477  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 14.93 | 252  | 135235m  | 4.308  | ng    |          |
| 90) Benzo(a)pyrene          | 15.27 | 252  | 118788   | 4.192  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.15 | 276  | 77623    | 3.151  | ng    | 99       |

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

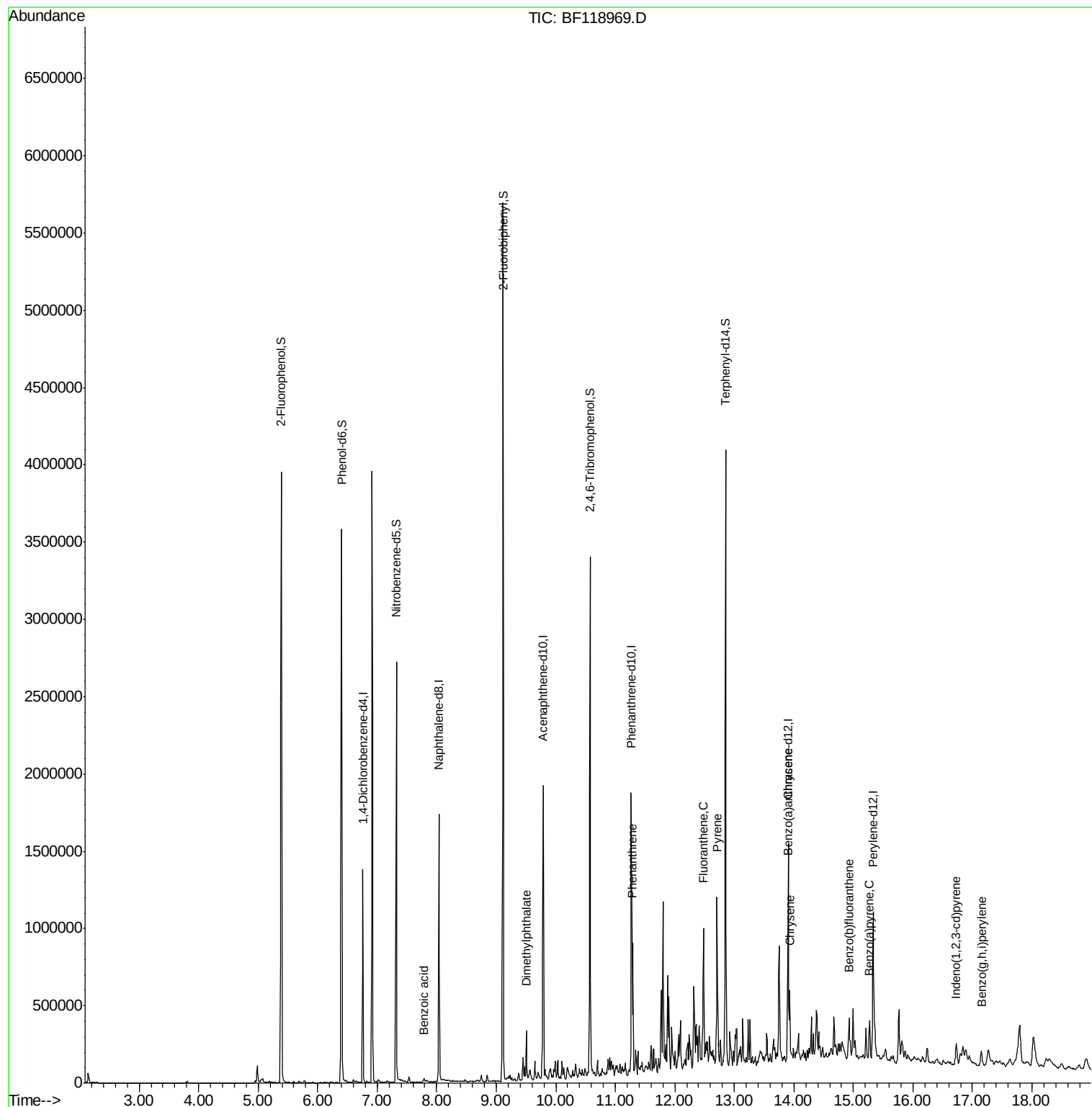
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022020\  
Data File : BF118969.D  
Acq On : 20 Feb 2020 20:10  
Operator : CG/JU  
Sample : L1546-13  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

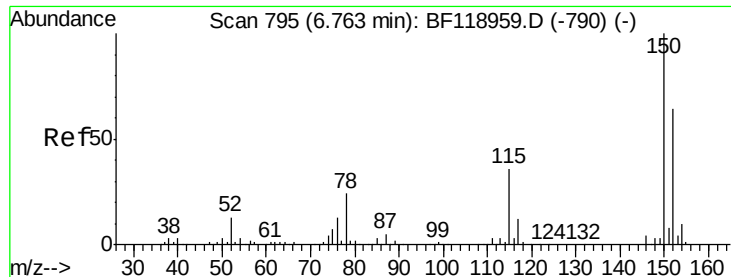
Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

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Quant Time: Feb 21 02:35:22 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 20 17:40:17 2020  
Response via : Initial Calibration





#1

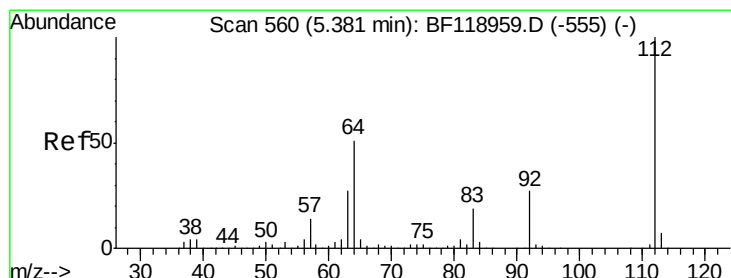
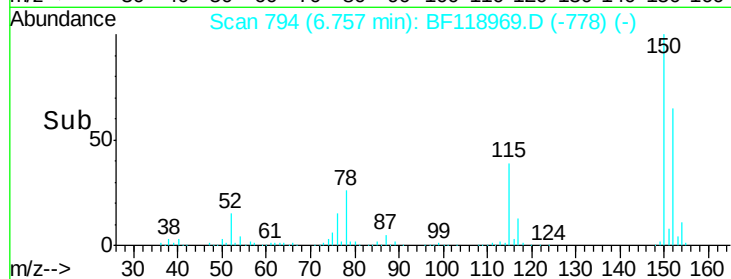
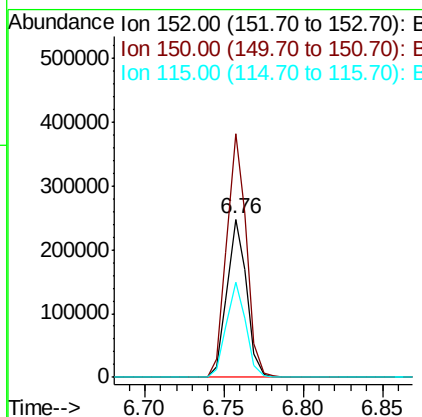
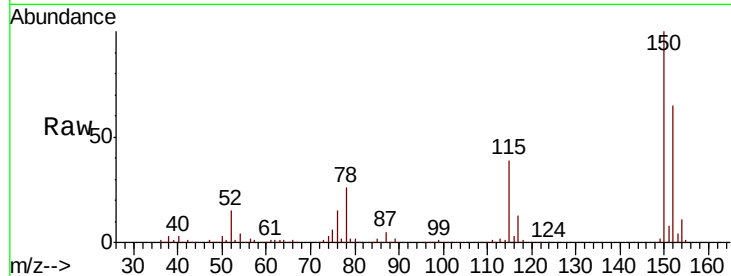
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.76 min Scan# 794  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.6 | 124.3 | 186.5 |
| 115     | 60.1  | 44.6  | 67.0  |

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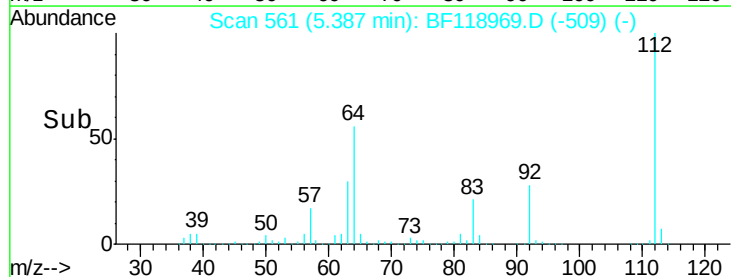
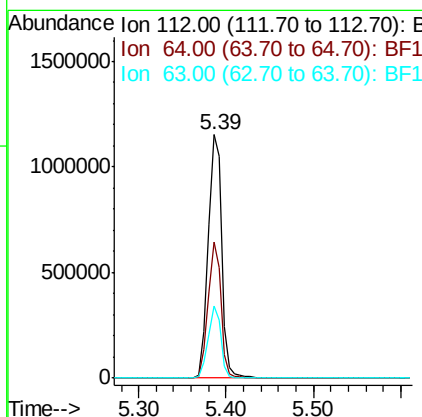
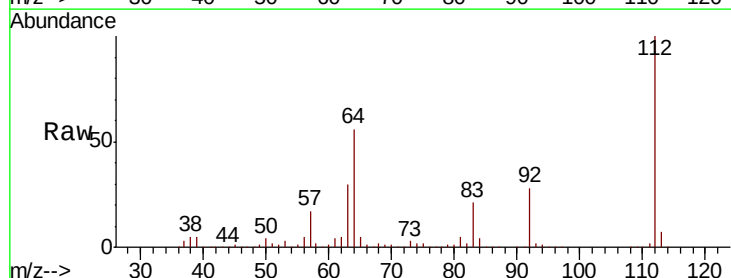
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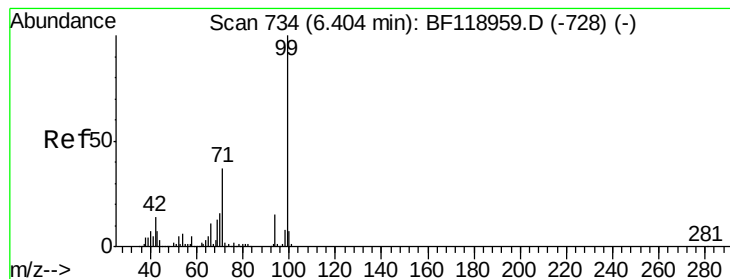


#5

2-Fluorophenol  
Concen: 98.169 ng  
RT: 5.39 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.1  | 40.4  | 60.6  |
| 63      | 29.8  | 21.3  | 31.9  |





#7

Phenol-d6

Concen: 98.902 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.00 min

Lab File: BF118969.D

Acq: 20 Feb 2020 20:10

Instrument :

BNA\_F

ClientSampleId :

INDIAN-ISLAND-(7)

Tot Ion: 99 Resp: 1526376

Ion Ratio Lower Upper

99 100

42 14.3 11.4 17.0

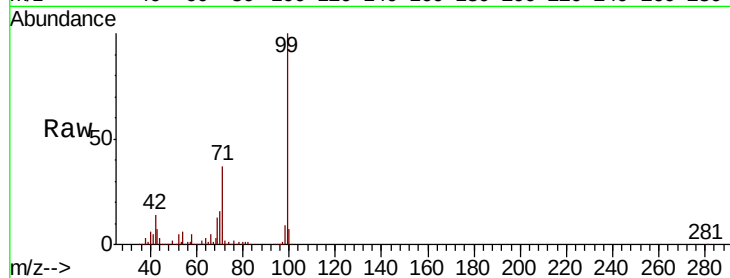
71 37.1 29.8 44.6

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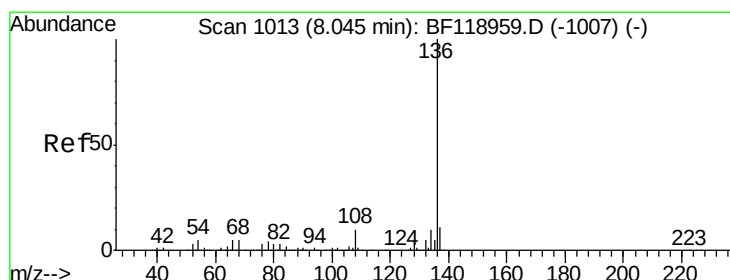
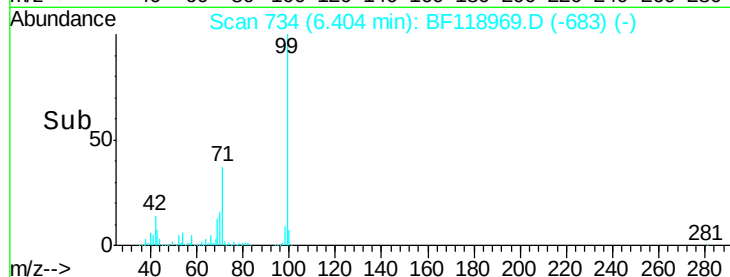
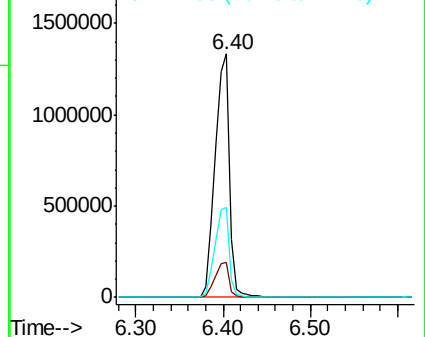
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.04 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF118969.D

Acq: 20 Feb 2020 20:10

Tgt Ion: 136 Resp: 791560

Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 4.9 3.8 5.6

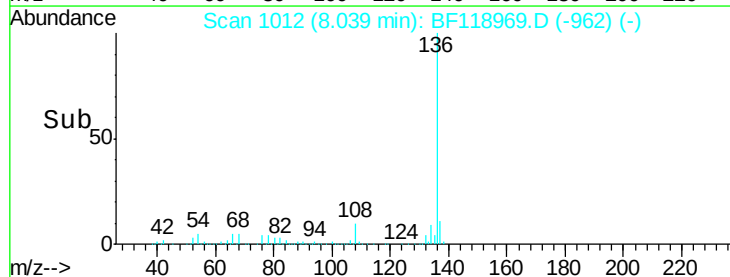
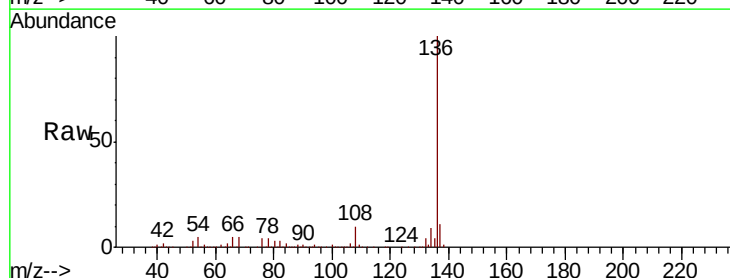
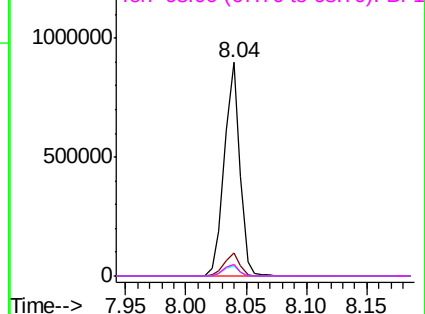
68 5.2 4.2 6.2

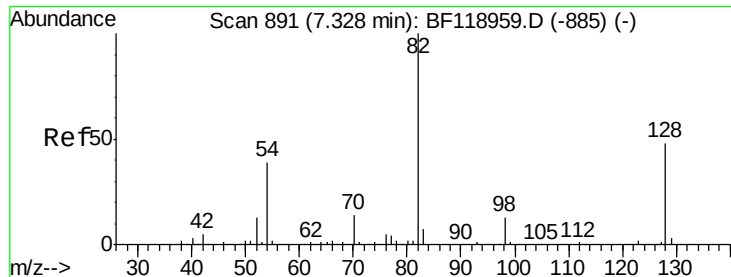
Abundance Ion 136.00 (135.70 to 136.70): E

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





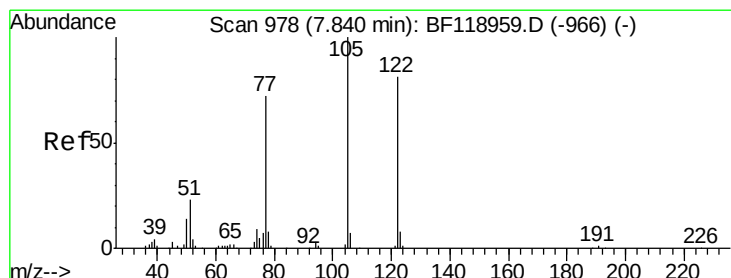
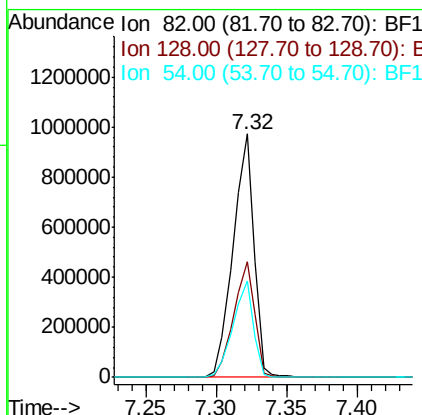
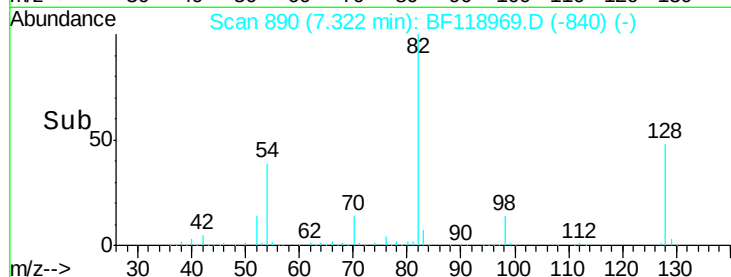
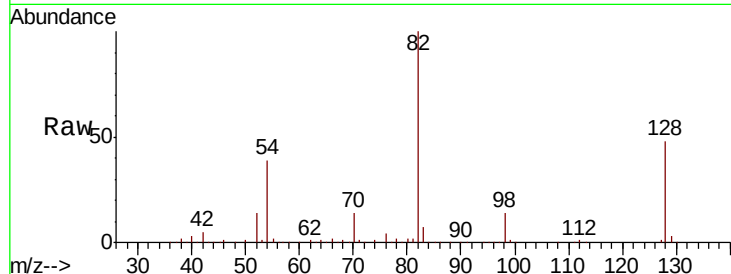
#23  
 Nitrobenzene-d5  
 Concen: 67.240 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. -0.01 min  
 Lab File: BF118969.D  
 Acq: 20 Feb 2020 20:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 INDIAN-ISLAND-(7)

| Tot Ion | 82    | Resp  | 1008040 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 82      | 100   |       |         |
| 128     | 47.7  | 38.2  | 57.2    |
| 54      | 39.5  | 31.3  | 46.9    |

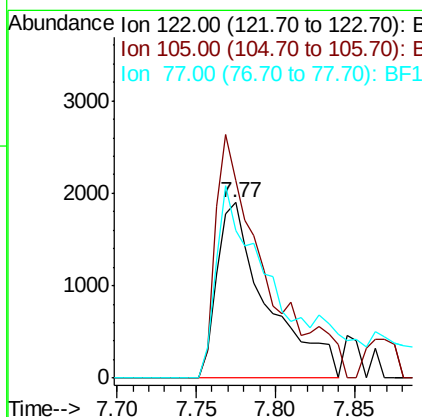
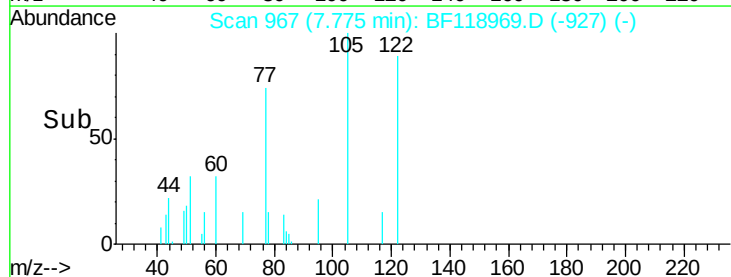
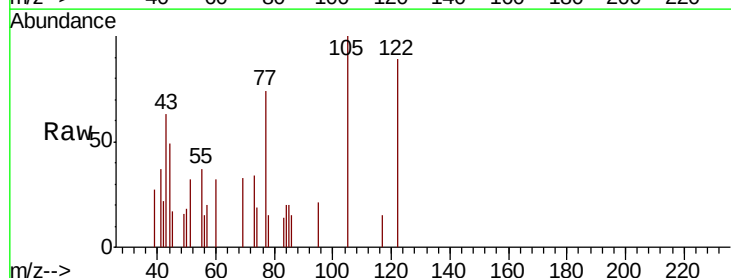
Manual Integrations  
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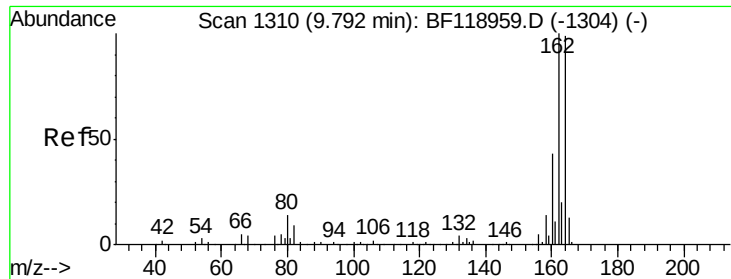
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#32  
 Benzoic acid  
 Concen: 7.141 ng  
 RT: 7.77 min Scan# 967  
 Delta R.T. -0.06 min  
 Lab File: BF118969.D  
 Acq: 20 Feb 2020 20:10

| Tgt Ion | 122   | Resp  | 4164  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 122     | 100   |       |       |
| 105     | 112.8 | 102.2 | 142.2 |
| 77      | 83.9  | 68.6  | 108.6 |





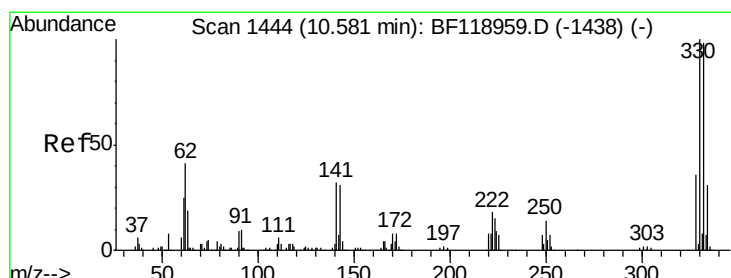
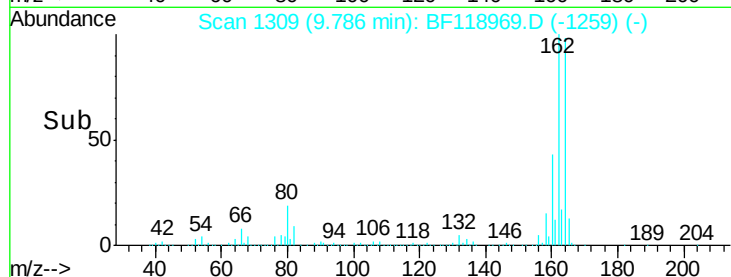
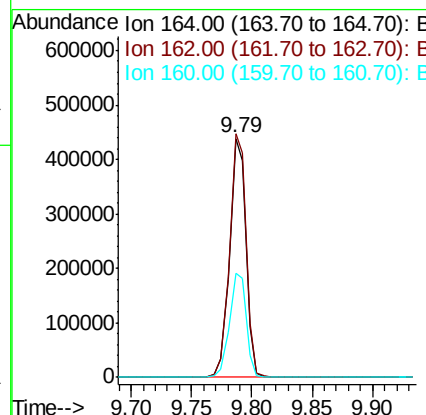
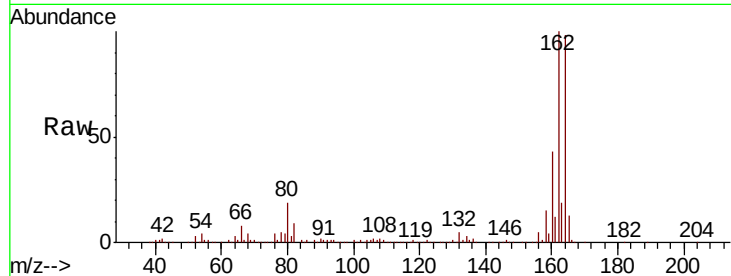
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.79 min Scan# 1309  
 Delta R.T. -0.01 min  
 Lab File: BF118969.D  
 Acq: 20 Feb 2020 20:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.9 | 81.2 | 121.8 |       |
| 160     | 43.8  | 35.2 | 52.8  |       |

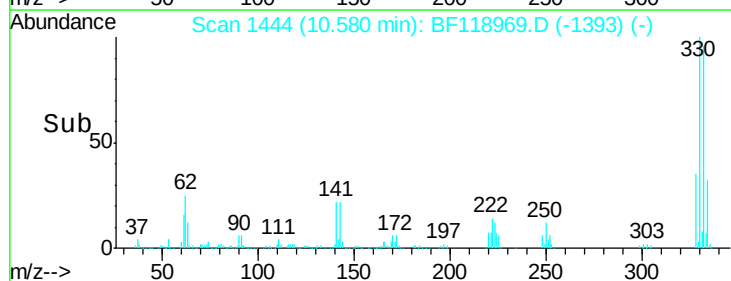
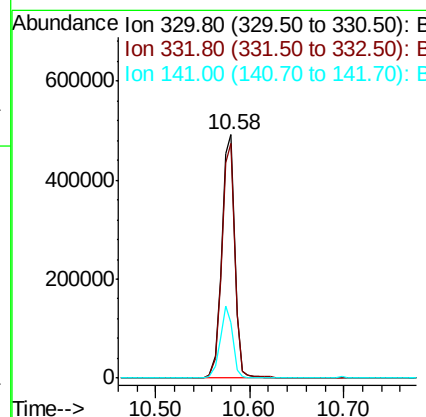
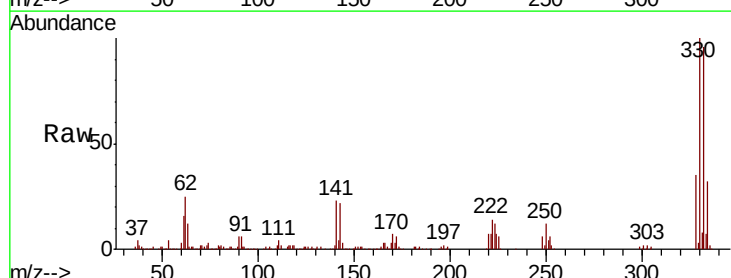
Manual Integrations  
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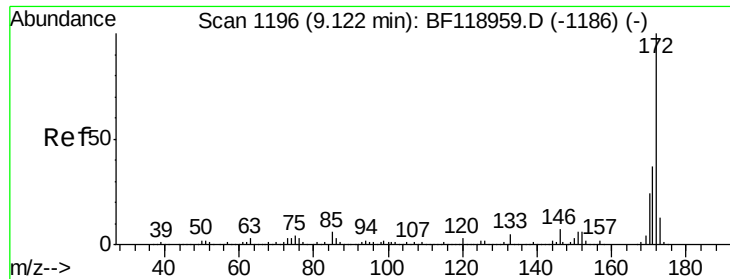
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#42  
 2,4,6-Tribromophenol  
 Concen: 89.789 ng  
 RT: 10.58 min Scan# 1444  
 Delta R.T. -0.00 min  
 Lab File: BF118969.D  
 Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.3  | 77.1 | 115.7 |       |
| 141     | 29.0  | 23.0 | 34.6  |       |





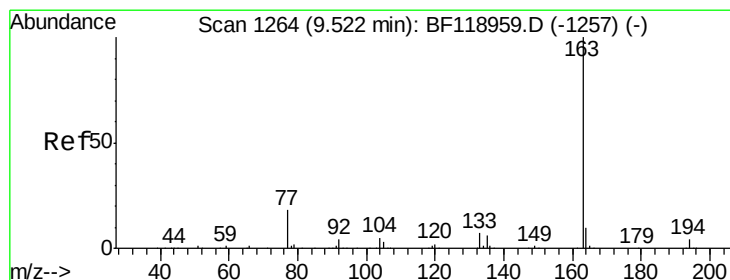
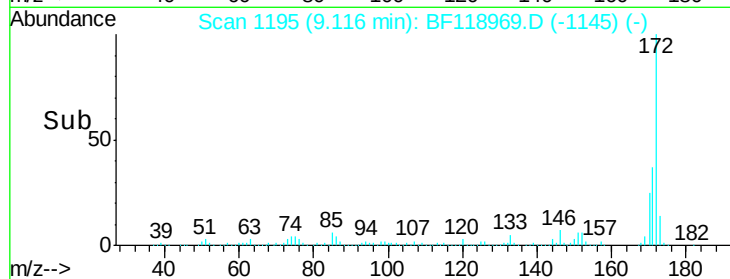
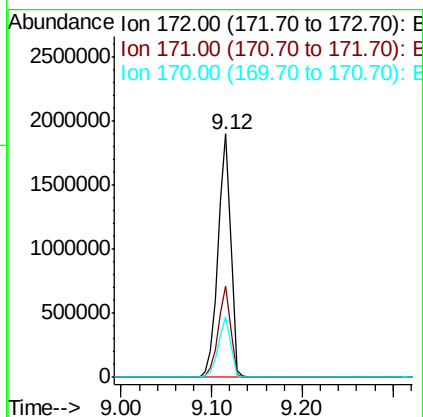
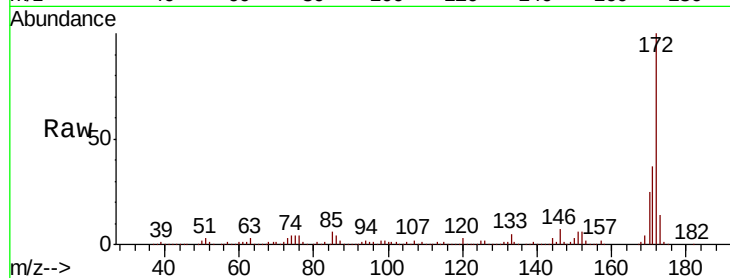
#45  
2-Fluorobiphenyl  
Concen: 64.965 ng  
RT: 9.12 min Scan# 1195  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 29.4  | 44.2  |
| 170     | 25.0  | 19.6  | 29.4  |

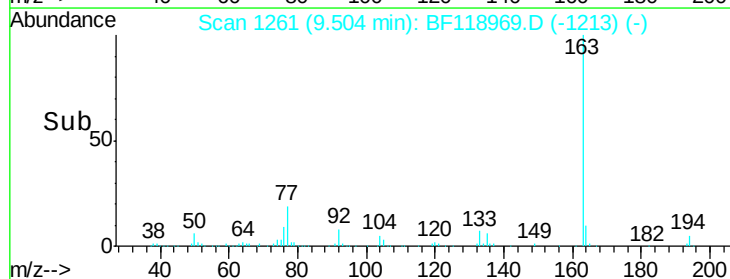
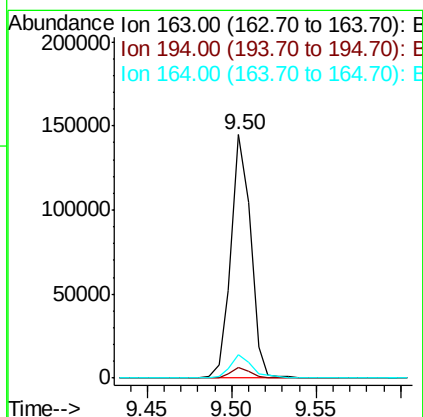
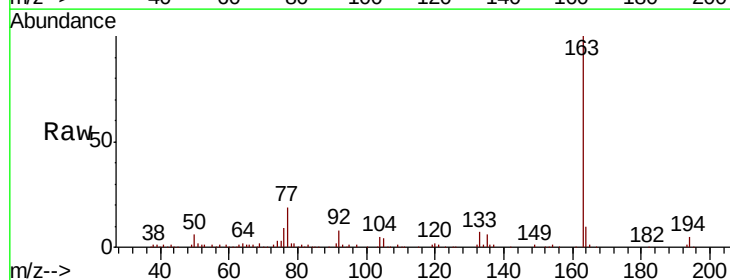
Manual Integrations  
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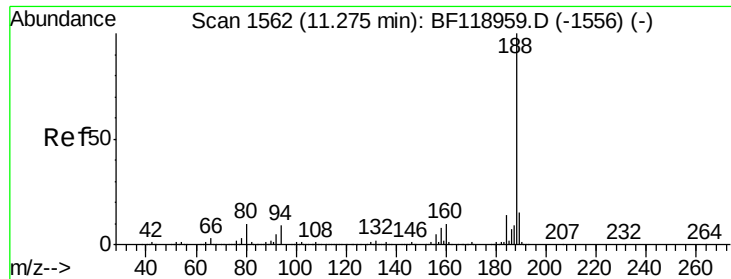
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#50  
Dimethylphthalate  
Concen: 3.743 ng  
RT: 9.50 min Scan# 1261  
Delta R.T. -0.02 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.5   | 3.4   | 5.2   |
| 164     | 9.8   | 8.2   | 12.2  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF118969.D

Acq: 20 Feb 2020 20:10

Instrument :

BNA\_F

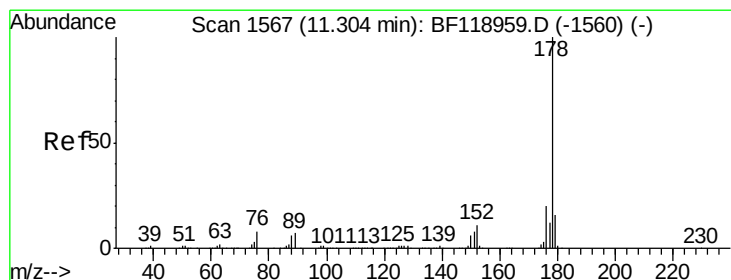
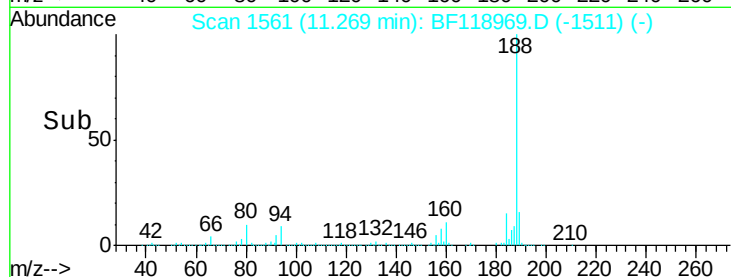
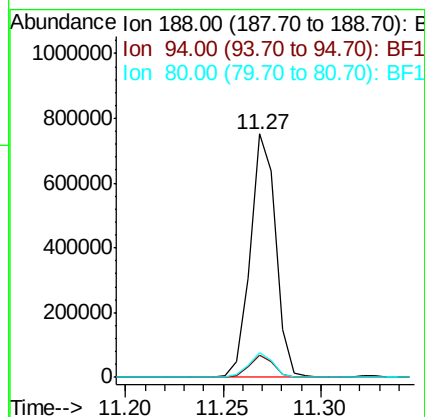
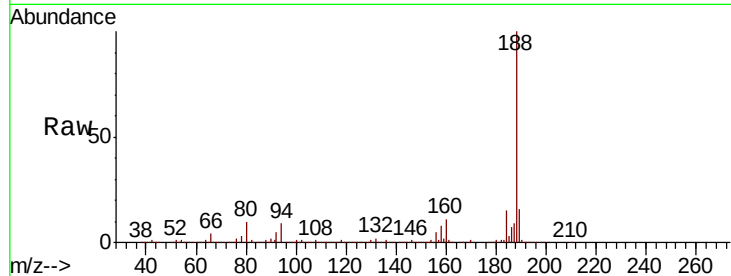
ClientSampleId :

INDIAN-ISLAND-(7)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 679214 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.3   | 7.0   | 10.6   |
| 80        | 10.4  | 7.9   | 11.9   |

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#71

Phenanthrene

Concen: 8.365 ng

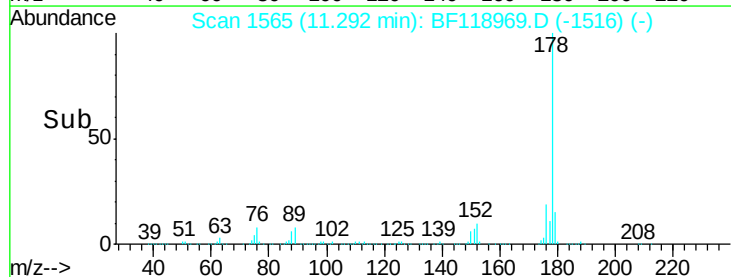
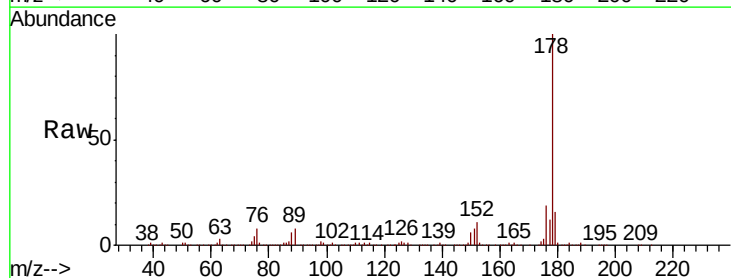
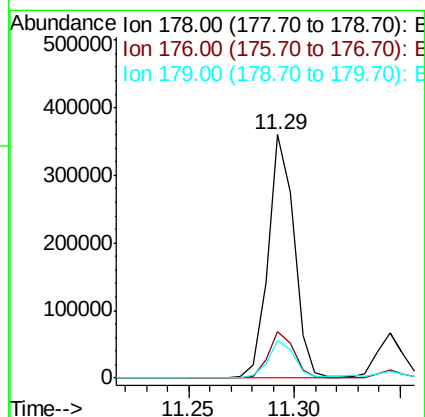
RT: 11.29 min Scan# 1565

Delta R.T. -0.01 min

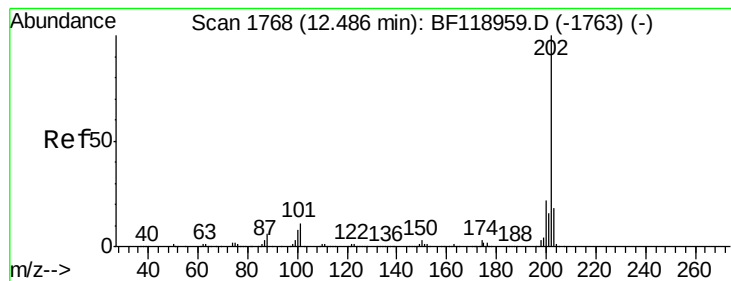
Lab File: BF118969.D

Acq: 20 Feb 2020 20:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 309859 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.9  | 15.6  | 23.4   |
| 179       | 15.5  | 12.6  | 18.8   |







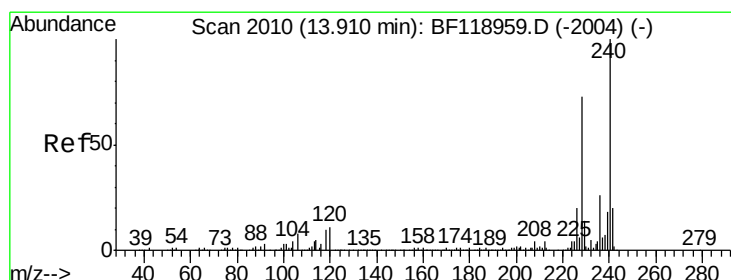
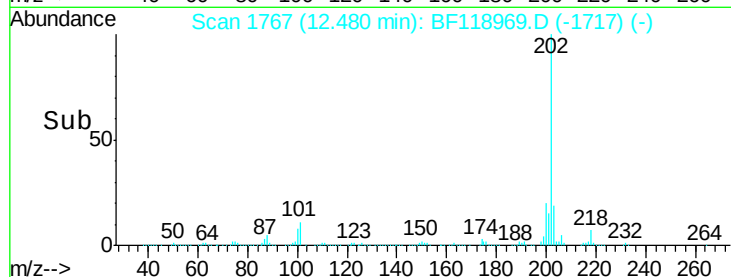
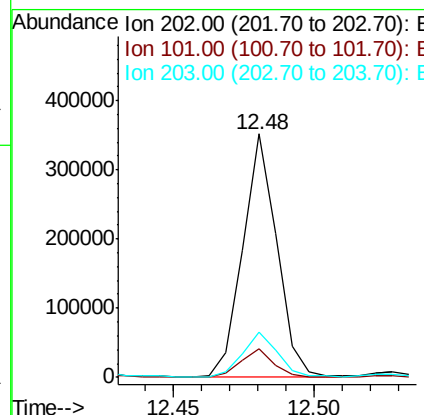
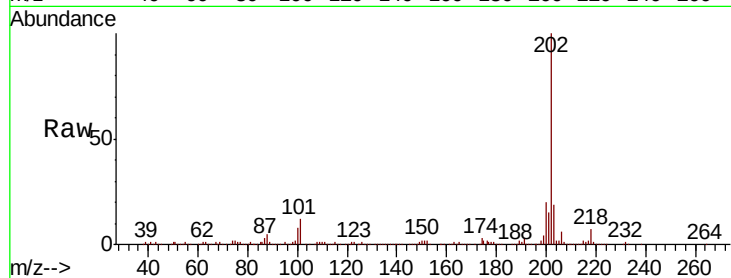
#75  
Fluoranthene  
Concen: 7.469 ng  
RT: 12.48 min Scan# 1767  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 11.5  | 0.0        | 31.1       |
| 203     | 18.6  | 0.0        | 38.1       |

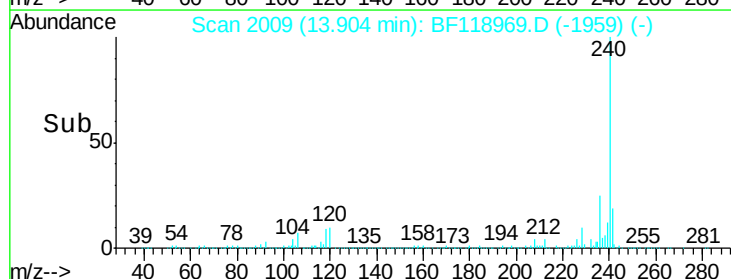
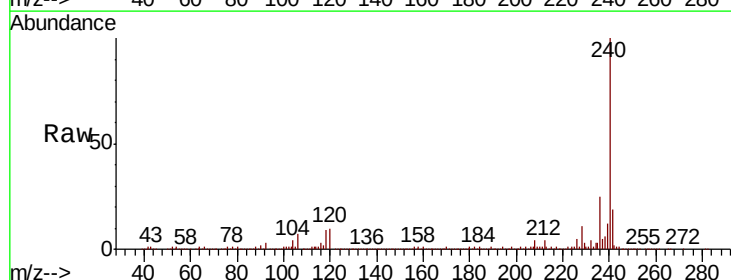
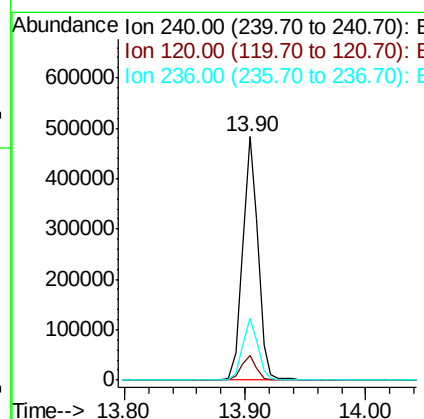
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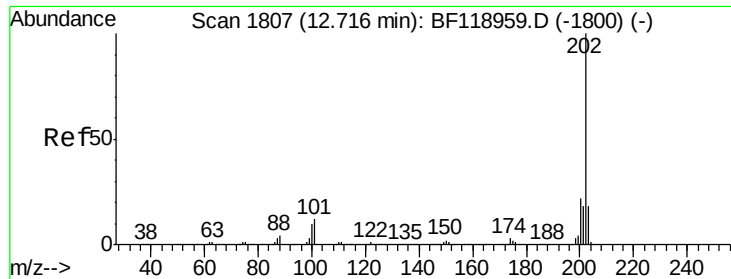
mohammad  
2/21/2020 2:18:52 PM



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.90 min Scan# 2009  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 10.2  | 8.9        | 13.3       |
| 236     | 25.4  | 20.6       | 30.8       |





#78

Pvrene

Concen: 13.402 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF118969.D

Acq: 20 Feb 2020 20:10

Instrument :

BNA\_F

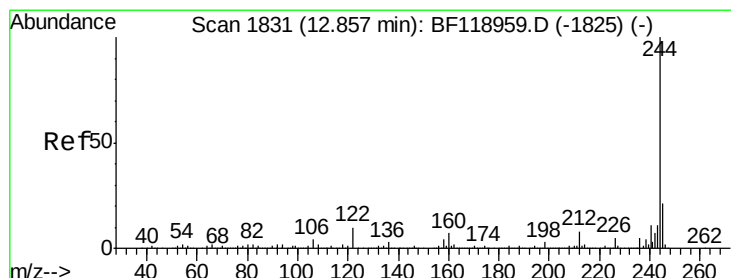
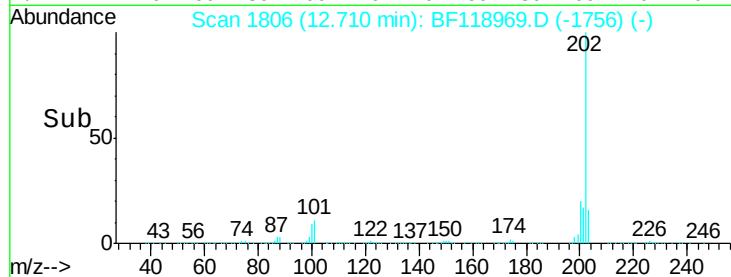
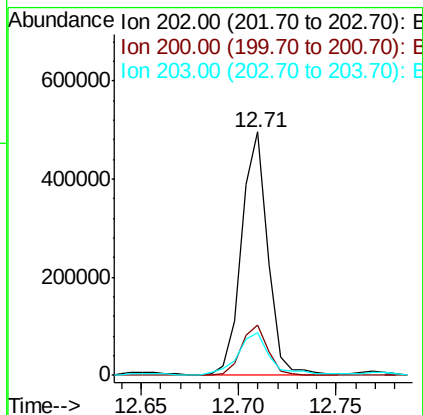
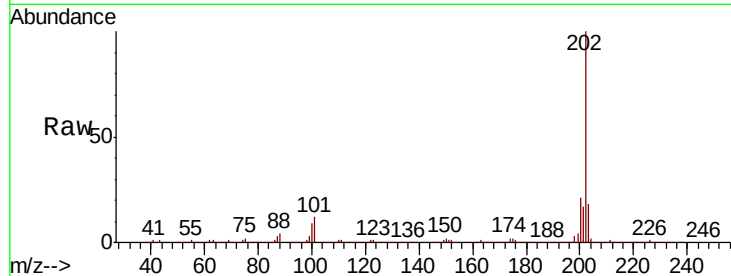
ClientSampleId :

INDIAN-ISLAND-(7)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 458710 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.6  | 17.4  | 26.0   |
| 203       | 17.6  | 14.5  | 21.7   |

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2/21/2020 2:18:52 PM



#79

Terphenyl-d14

Concen: 62.802 ng

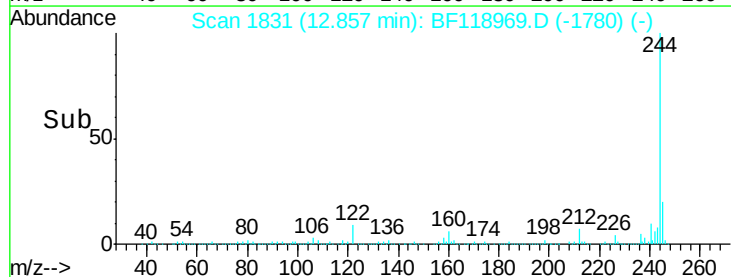
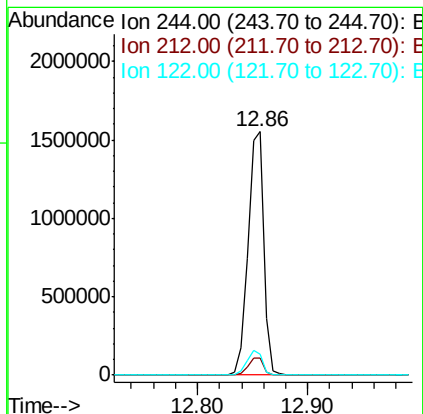
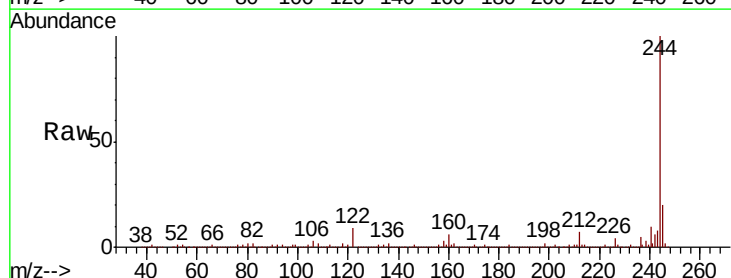
RT: 12.86 min Scan# 1831

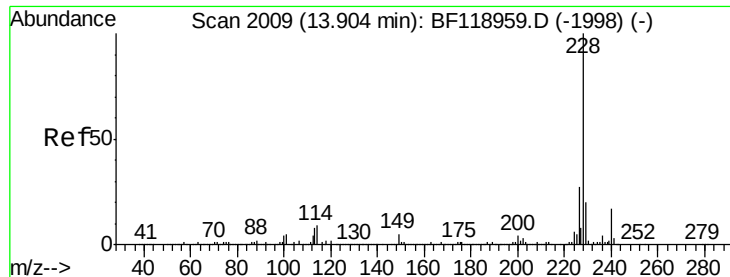
Delta R.T. -0.00 min

Lab File: BF118969.D

Acq: 20 Feb 2020 20:10

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1554788 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.0   | 6.3   | 9.5     |
| 122       | 8.7   | 8.4   | 12.6    |





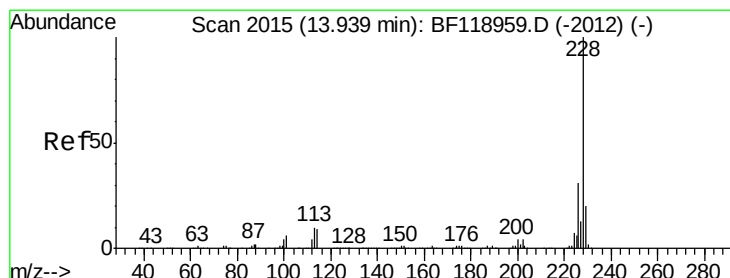
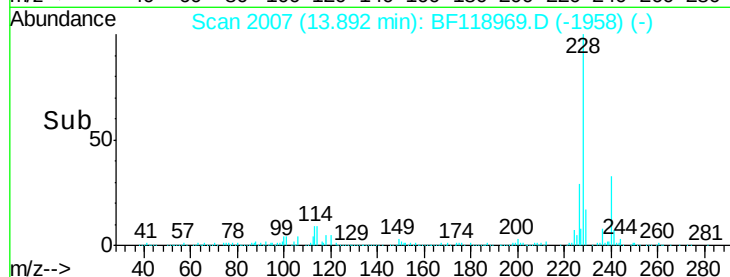
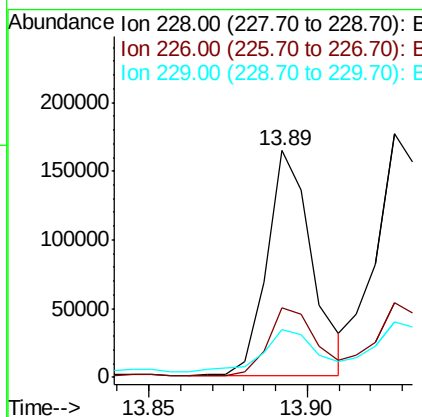
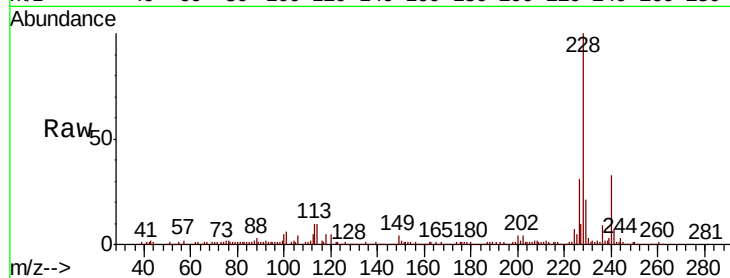
#81  
Benzo(a)anthracene  
Concen: 5.592 ng  
RT: 13.89 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 21.8  | 32.8  |
| 229     | 21.2  | 16.0  | 24.0  |

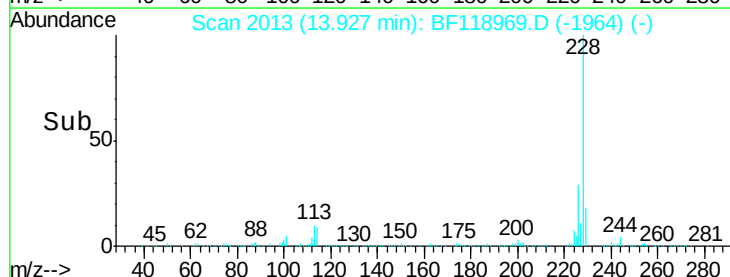
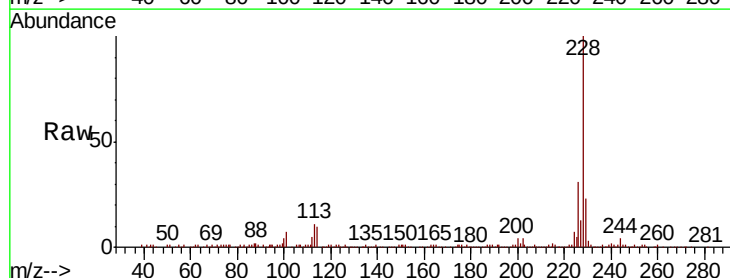
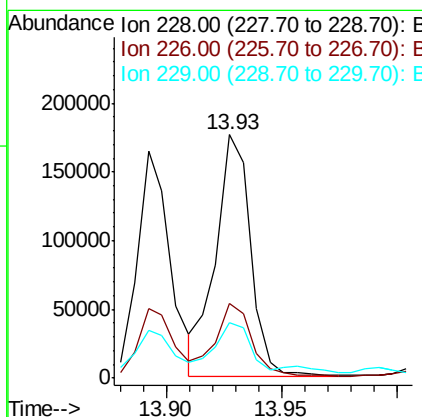
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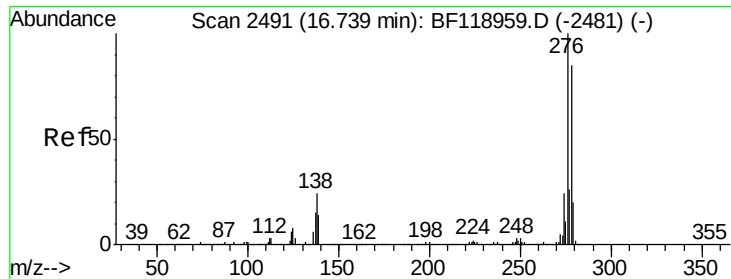
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2/21/2020 2:18:52 PM



#83  
Chrysene  
Concen: 6.401 ng  
RT: 13.93 min Scan# 2013  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 24.6  | 37.0  |
| 229     | 22.6  | 16.2  | 24.2  |





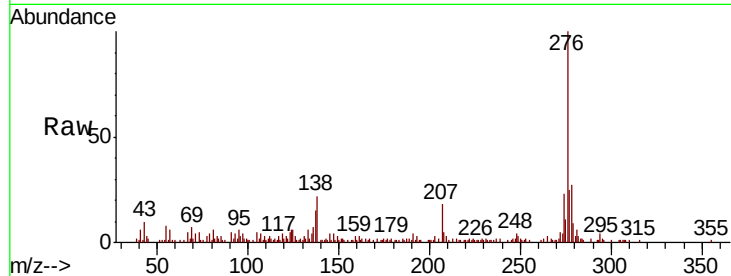
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.477 ng  
RT: 16.73 min Scan# 2489  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.5  | 18.7  | 28.1  |
| 277     | 24.9  | 20.3  | 30.5  |

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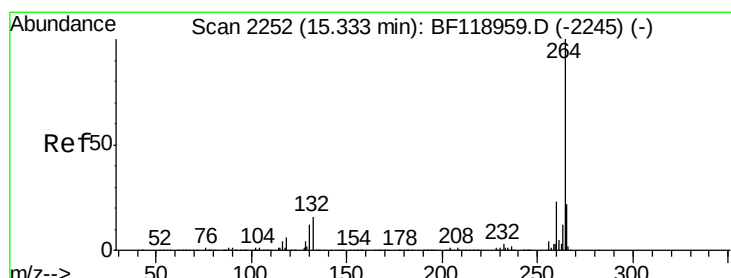
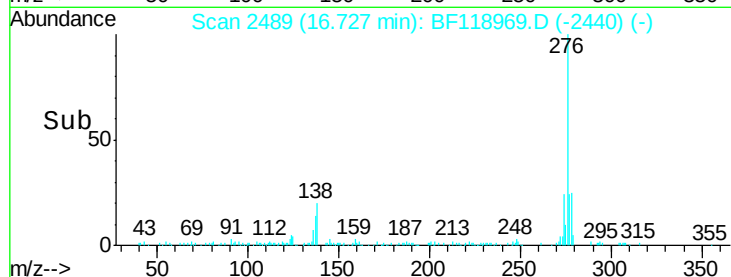
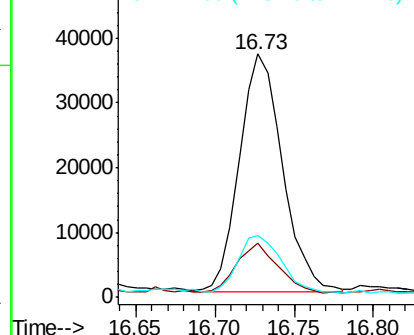


Abundance

Ion 276.00 (275.70 to 276.70): E

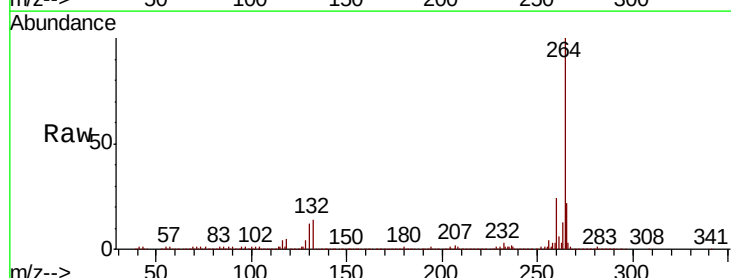
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.33 min Scan# 2252  
Delta R.T. -0.00 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.6  | 28.0  |
| 265     | 22.2  | 17.3  | 25.9  |

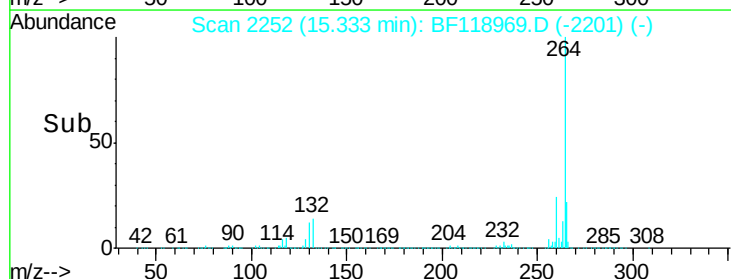
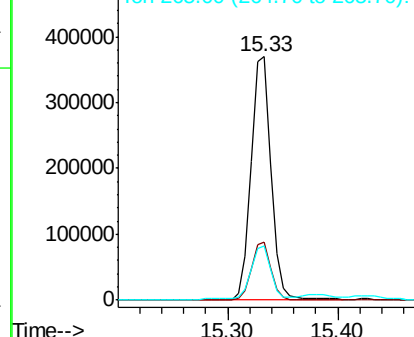


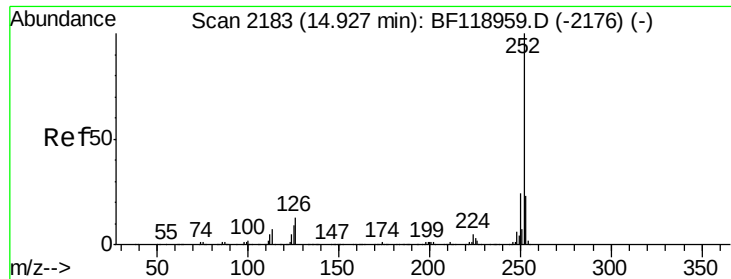
Abundance

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





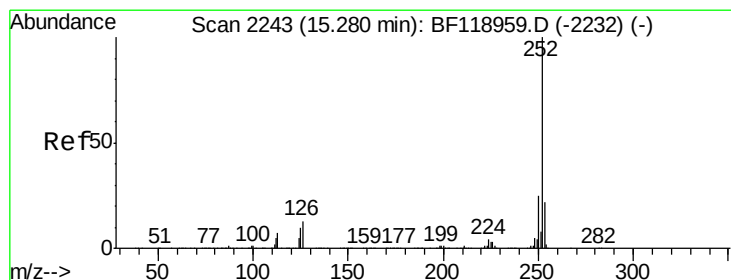
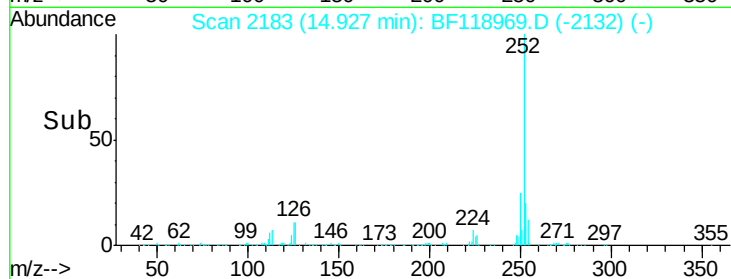
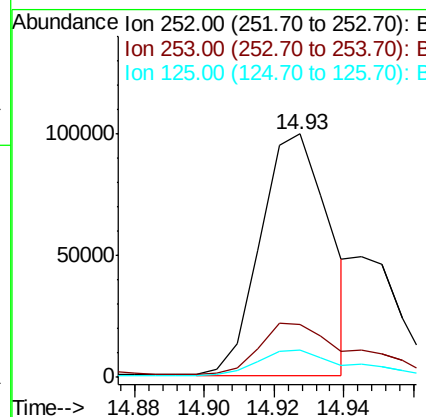
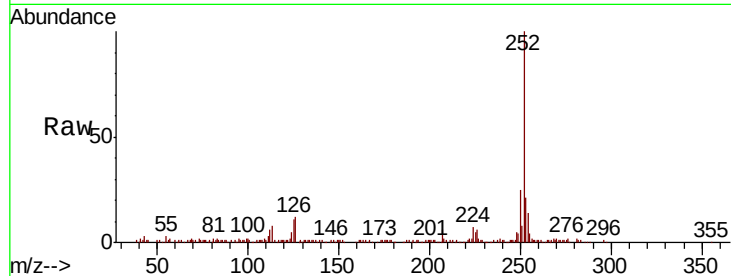
#88  
Benzo(b)fluoranthene  
Concen: 4.308 ng m  
RT: 14.93 min Scan# 2183  
Delta R.T. -0.00 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

Instrument :  
BNA\_F  
ClientSampleId :  
INDIAN-ISLAND-(7)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 18.2  | 27.2  |
| 125     | 11.4  | 7.4   | 11.0  |

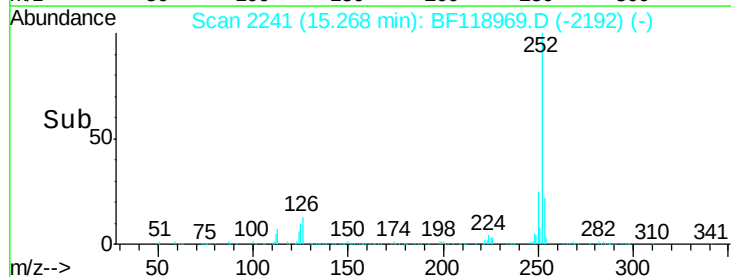
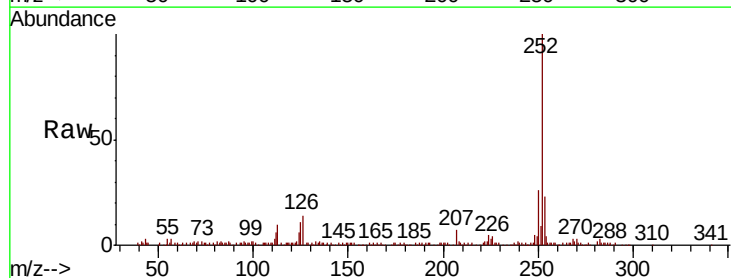
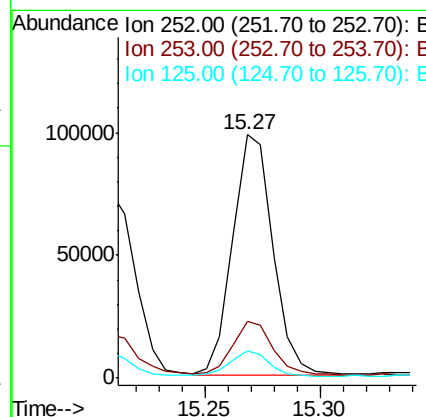
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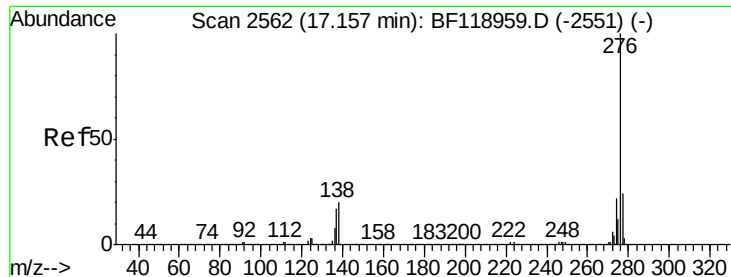
mohammad  
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#90  
Benzo(a)pyrene  
Concen: 4.192 ng  
RT: 15.27 min Scan# 2241  
Delta R.T. -0.01 min  
Lab File: BF118969.D  
Acq: 20 Feb 2020 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.9  | 26.9  |
| 125     | 11.3  | 7.8   | 11.6  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 3.151 ng  
 RT: 17.15 min Scan# 2561  
 Delta R.T. -0.01 min  
 Lab File: BF118969.D  
 Acq: 20 Feb 2020 20:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 INDIAN-ISLAND-(7)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 77623 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.4  | 19.2  | 28.8  |
| 138       | 21.2  | 16.2  | 24.4  |

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