

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\  
 Data File : BF116368.D  
 Acq On : 17 Aug 2019 20:07  
 Operator : HP/JU  
 Sample : K4223-05  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-3

Manual Integrations  
 APPROVED

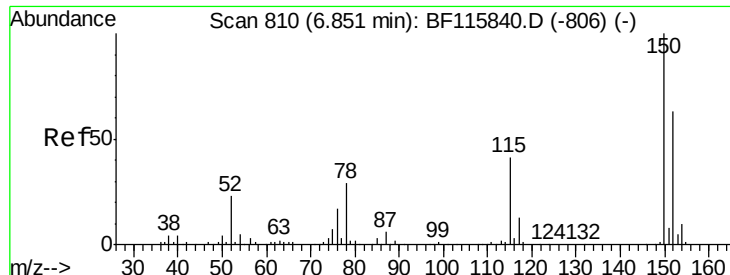
Jagrut  
 8/19/2019 3:31:13 PM

Quant Time: Aug 19 07:29:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 137239   | 20.00  | ng    | -0.04    |
| 21) Naphthalene-d8          | 8.09  | 136  | 520454   | 20.00  | ng    | -0.04    |
| 39) Acenaphthene-d10        | 9.84  | 164  | 258607   | 20.00  | ng    | -0.05    |
| 64) Phenanthrene-d10        | 11.33 | 188  | 393945   | 20.00  | ng    | -0.04    |
| 76) Chrysene-d12            | 13.97 | 240  | 252675   | 20.00  | ng    | -0.04    |
| 87) Perylene-d12            | 15.43 | 264  | 279619   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.44  | 112  | 930320   | 113.48 | ng    | -0.03    |
| 7) Phenol-d6                | 6.46  | 99   | 1193608  | 115.40 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 754768   | 83.71  | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 276234   | 110.17 | ng    | -0.04    |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 1078482  | 78.11  | ng    | -0.04    |
| 79) Terphenyl-d14           | 12.90 | 244  | 853445   | 71.17  | ng    | -0.05    |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.56  | 163  | 254236   | 14.438 | ng    | 98       |
| 71) Phenanthrene            | 11.35 | 178  | 61651    | 3.061  | ng    | 99       |
| 75) Fluoranthene            | 12.55 | 202  | 100679   | 4.775  | ng    | 98       |
| 78) Pyrene                  | 12.77 | 202  | 82790    | 4.347  | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 36405    | 2.254  | ng    | # 94     |
| 83) Chrysene                | 14.00 | 228  | 39639    | 2.528  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.01 | 252  | 49038m   | 3.033  | ng    |          |
| 90) Benzo(a)pyrene          | 15.37 | 252  | 32598    | 2.255  | ng    | # 91     |

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





#1

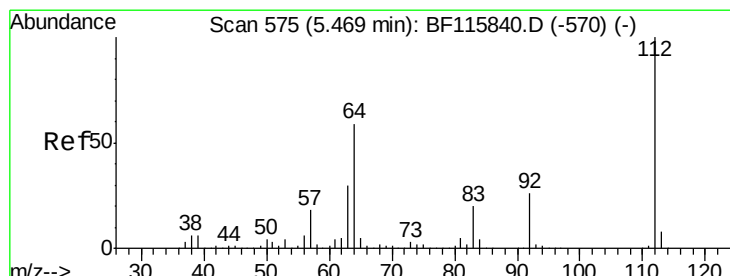
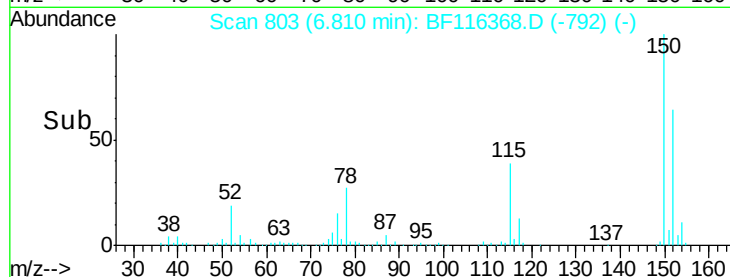
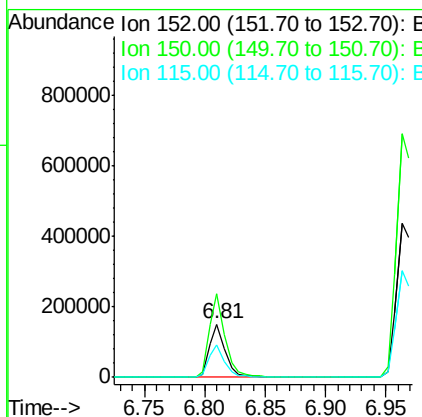
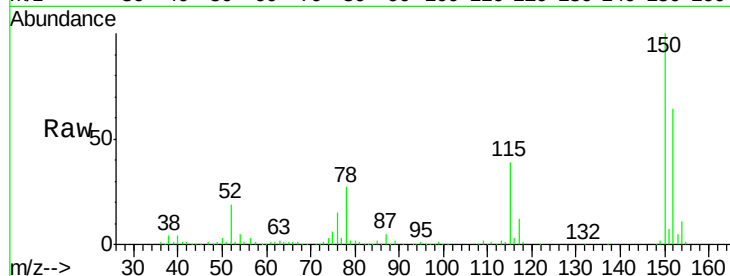
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.04 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

Instrument :  
BNA\_F  
ClientSampled :  
SP-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.3 | 126.2 | 189.2 |
| 115     | 60.9  | 49.9  | 74.9  |

Manual Integrations  
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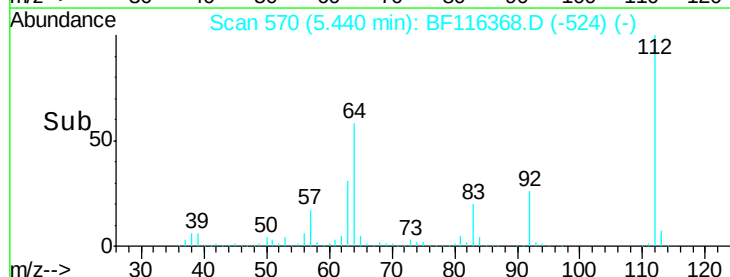
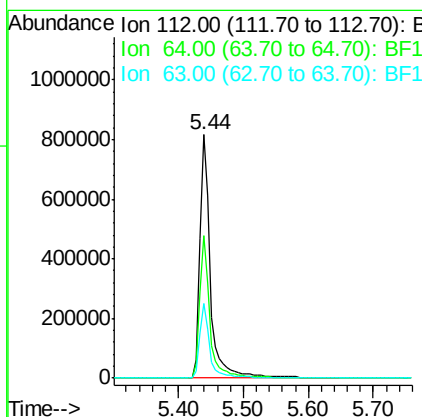
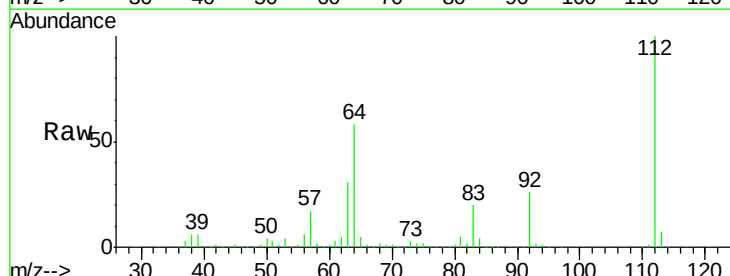
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8/19/2019 3:31:13 PM

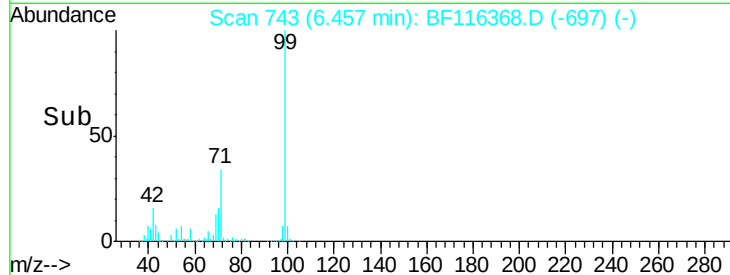
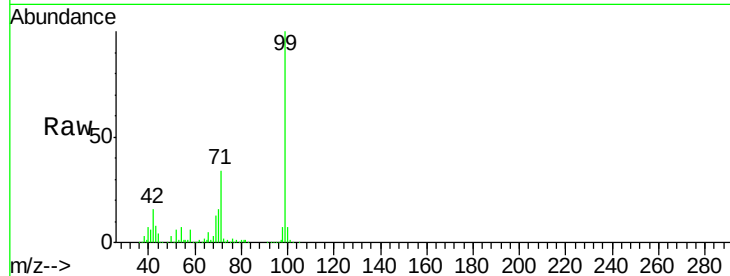
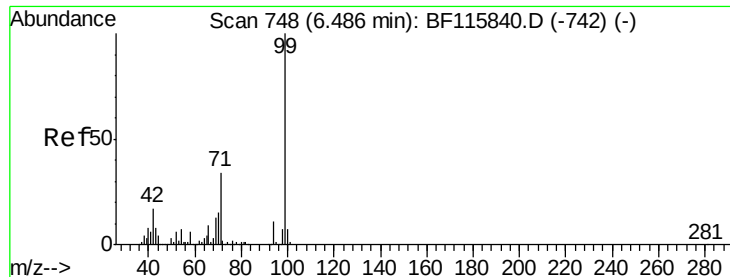


#5

2-Fluorophenol  
Concen: 113.482 ng  
RT: 5.44 min Scan# 570  
Delta R.T. -0.03 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.4  | 45.4  | 68.2  |
| 63      | 30.5  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 115.400 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

Tot Ion: 99 Resp: 1193608

Ion Ratio Lower Upper

99 100

42 16.5 13.8 20.8

71 34.3 27.3 40.9

Instrument :

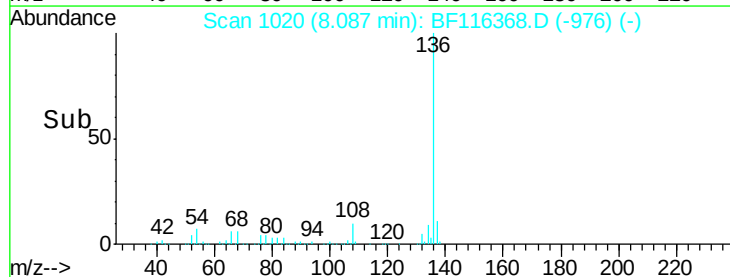
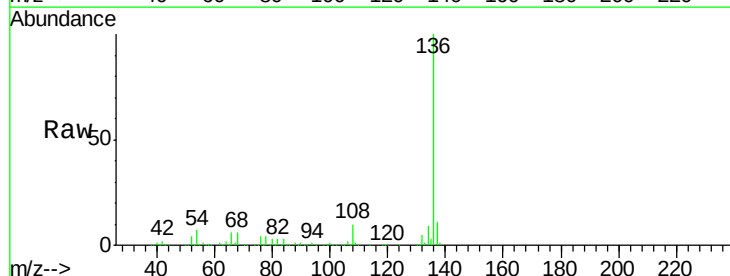
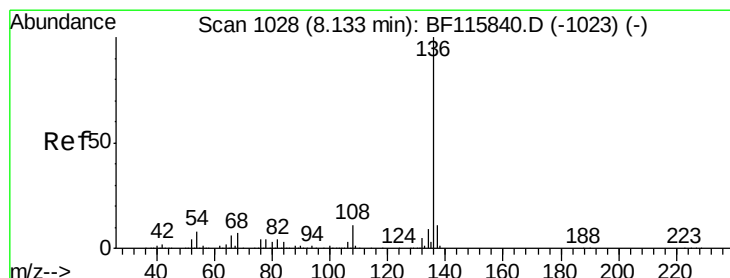
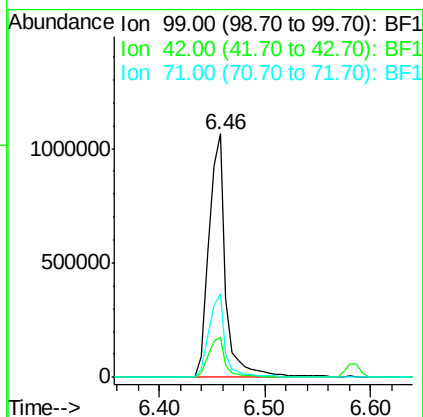
BNA\_F

ClientSampled :

SP-3

Manual Integrations  
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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.04 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

Tgt Ion: 136 Resp: 520454

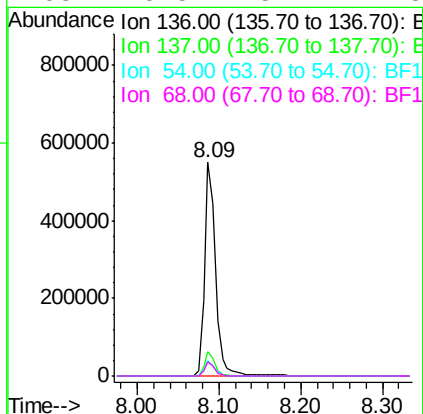
Ion Ratio Lower Upper

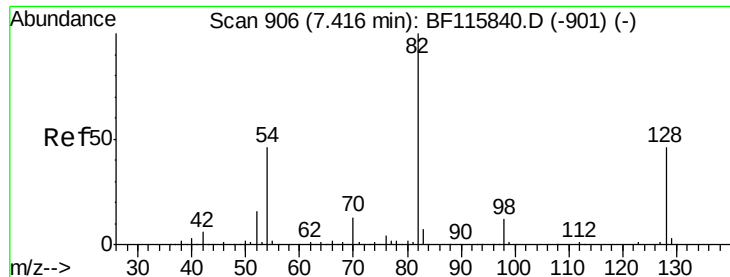
136 100

137 11.2 9.0 13.4

54 7.4 5.8 8.6

68 6.5 5.2 7.8





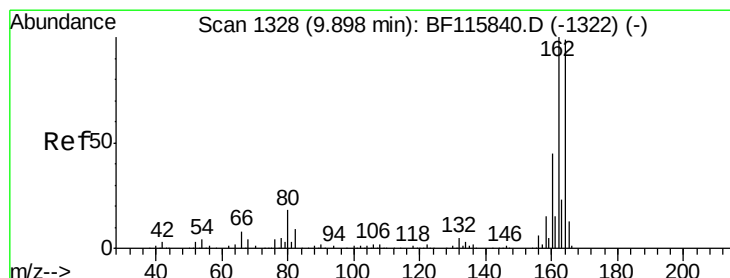
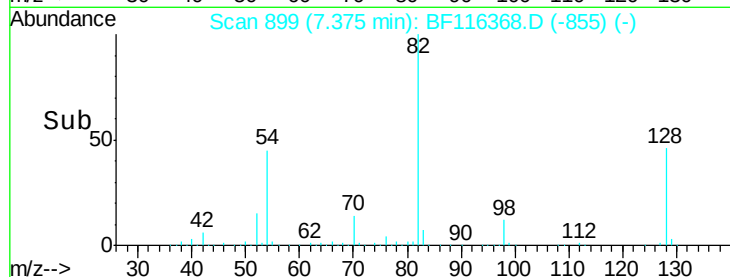
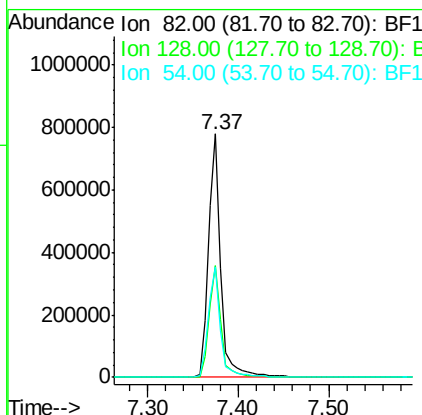
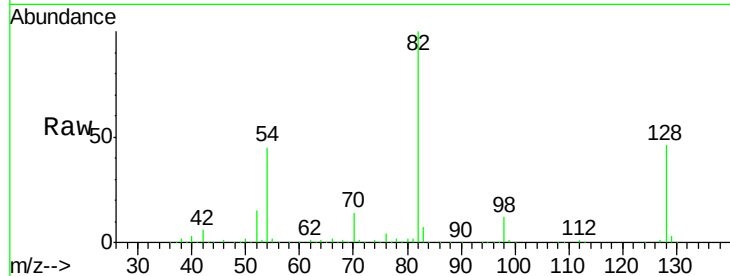
#23  
 Nitrobenzene-d5  
 Concen: 83.711 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. -0.04 min  
 Lab File: BF116368.D  
 Acq: 17 Aug 2019 20:07

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-3

| Tot Ion   | 82   | Resp  | 754768 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 45.9 | 36.5  | 54.7   |
| 54        | 45.2 | 36.0  | 54.0   |

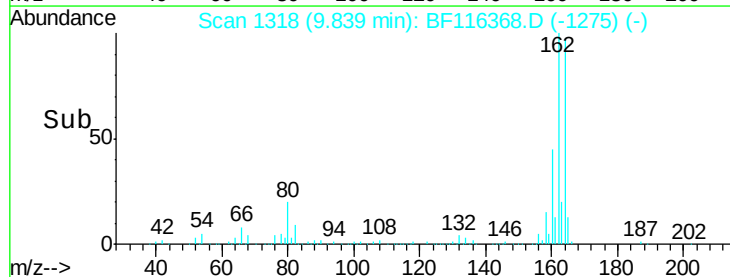
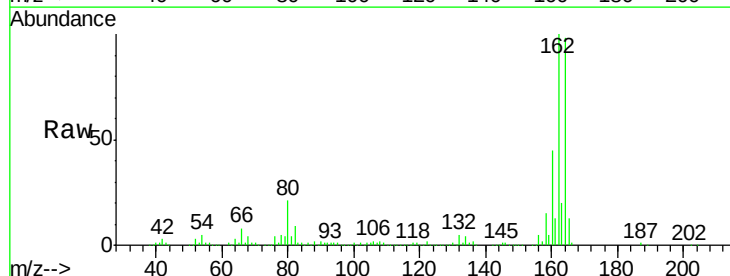
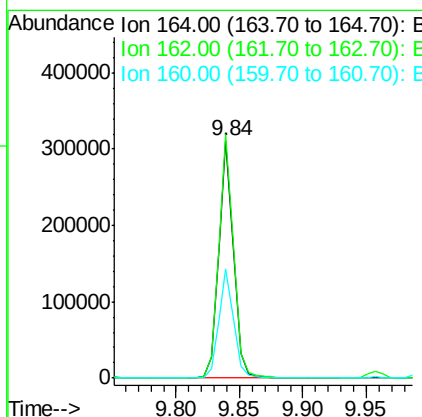
Manual Integrations  
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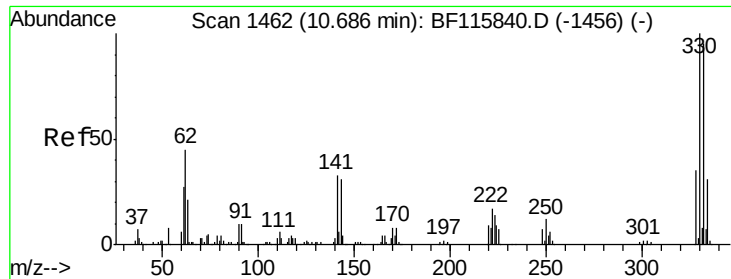
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.05 min  
 Lab File: BF116368.D  
 Acq: 17 Aug 2019 20:07

| Tgt Ion   | 164   | Resp  | 258607 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 102.5 | 82.6  | 124.0  |
| 160       | 46.1  | 37.6  | 56.4   |





#42

2,4,6-Tribromophenol

Concen: 110.173 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.04 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

Instrument :

BNA\_F

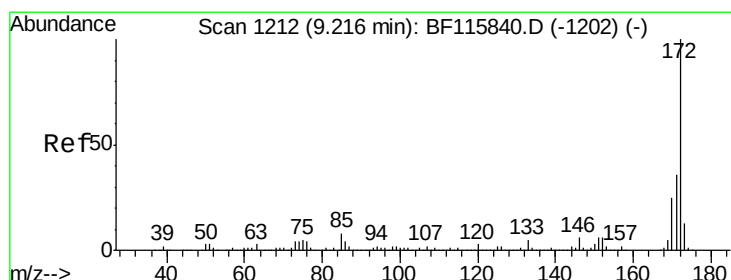
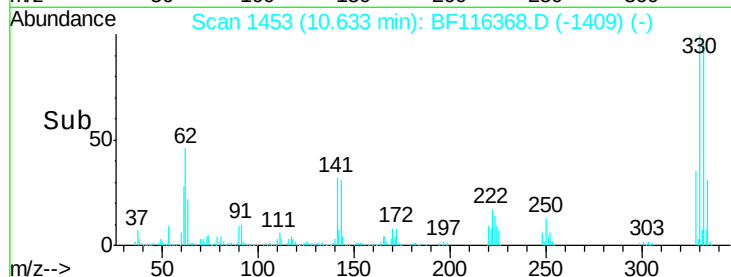
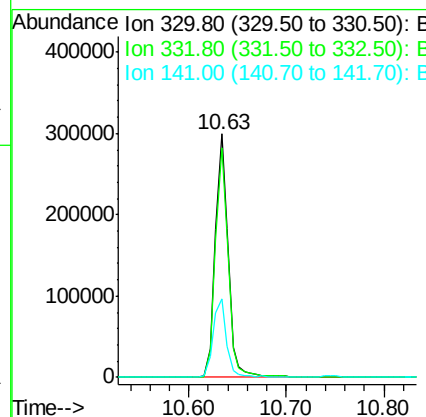
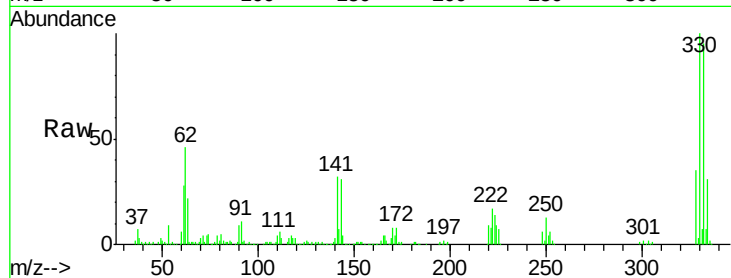
ClientSampled :

SP-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 276234 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 94.7  | 76.8  | 115.2  |
| 141       | 33.3  | 26.3  | 39.5   |

Manual Integrations  
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#45

2-Fluorobiphenyl

Concen: 78.114 ng

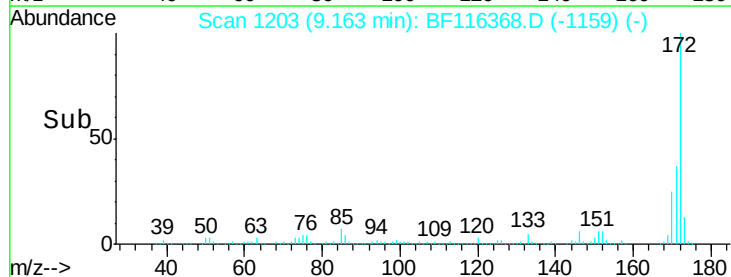
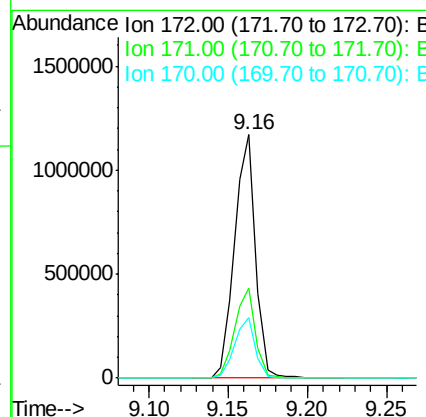
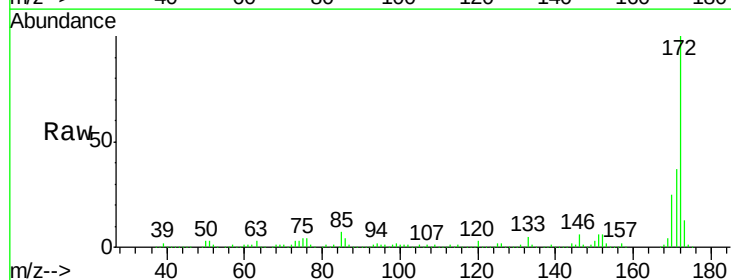
RT: 9.16 min Scan# 1203

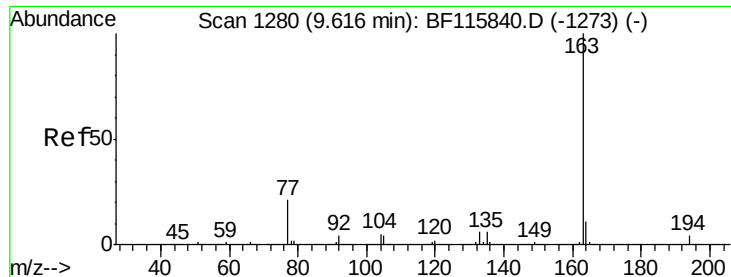
Delta R.T. -0.04 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1078482 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 36.8  | 29.6  | 44.4    |
| 170       | 25.0  | 20.1  | 30.1    |





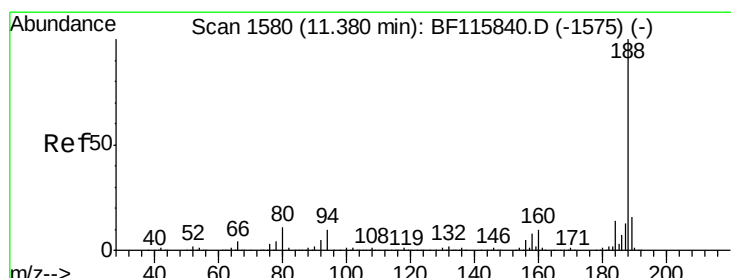
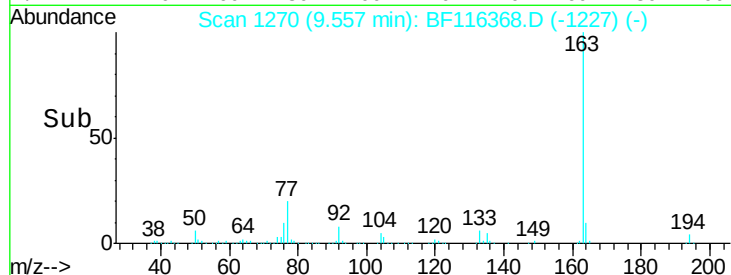
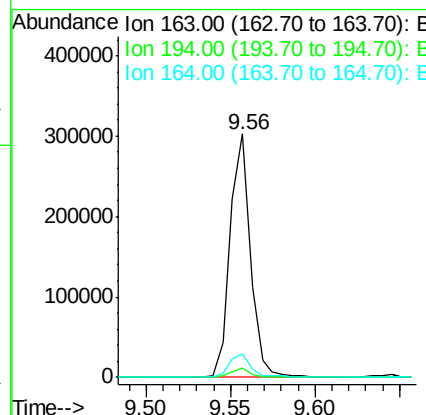
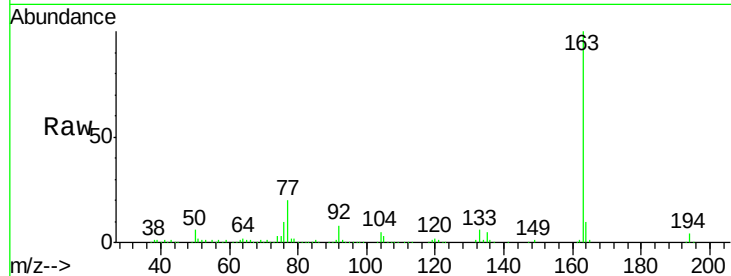
#50  
Dimethylphthalate  
Concen: 14.438 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.05 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

Instrument :  
BNA\_F  
ClientSampled :  
SP-3

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 163     | 100 |       | 254236 |       |       |
| 194     | 3.7 |       | 3.0    | 4.6   |       |
| 164     | 9.7 |       | 8.4    | 12.6  |       |

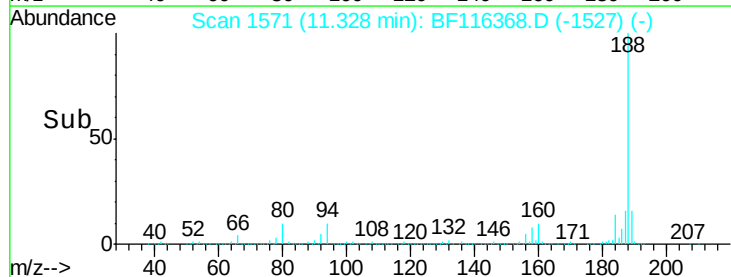
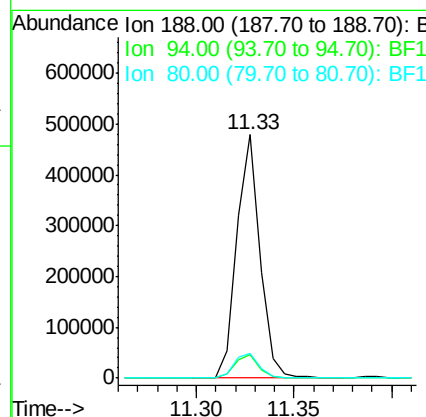
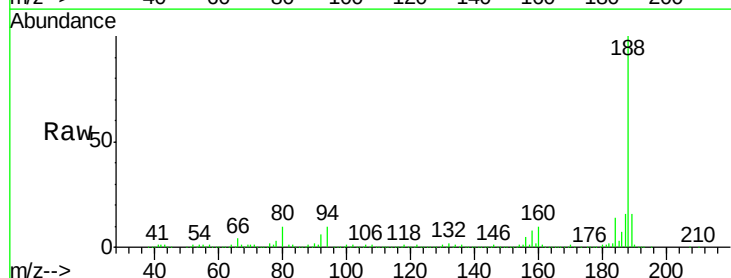
Manual Integrations  
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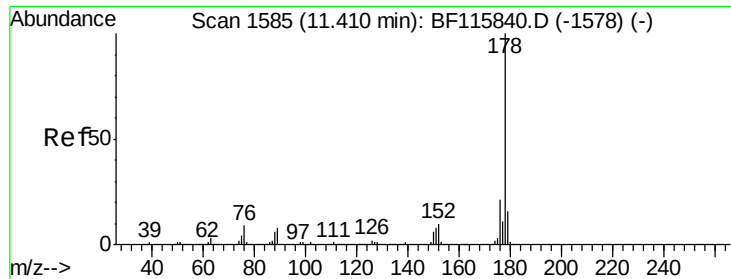
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.04 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 188     | 100  |       | 393945 |       |       |
| 94      | 9.8  |       | 8.1    | 12.1  |       |
| 80      | 10.3 |       | 8.7    | 13.1  |       |





#71

Phenanthrene

Concen: 3.061 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.05 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

Instrument :

BNA\_F

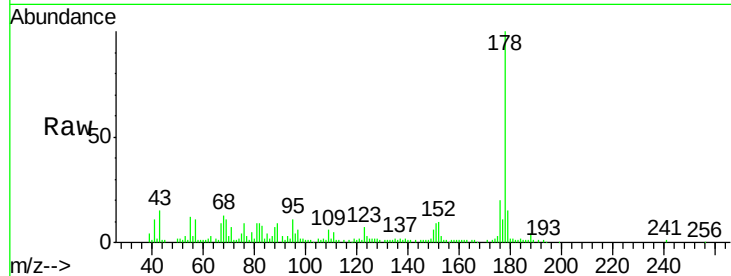
ClientSampleId :

SP-3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 61651 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.0  | 16.6  | 24.8  |
| 179       | 15.5  | 12.5  | 18.7  |

Manual Integrations  
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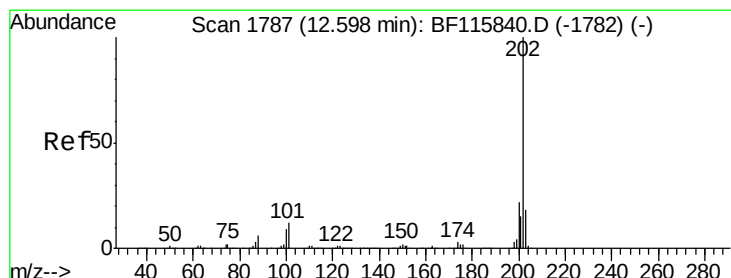
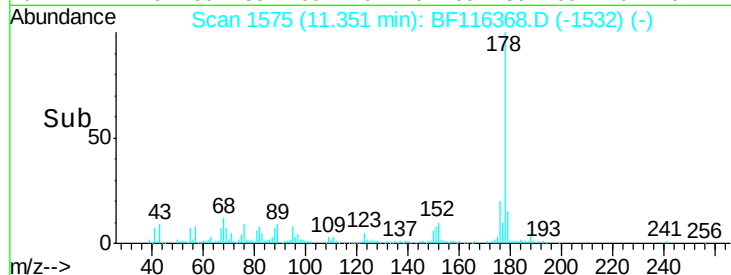
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

11.35

Time-->



#75

Fluoranthene

Concen: 4.775 ng

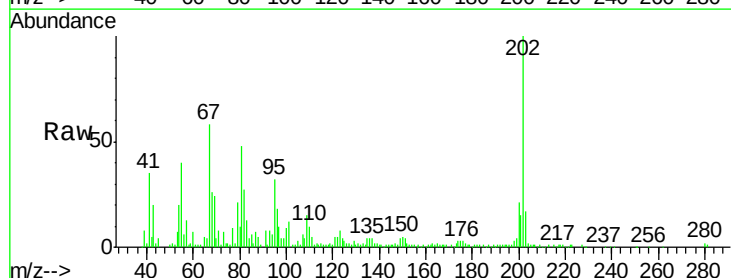
RT: 12.55 min Scan# 1778

Delta R.T. -0.04 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 100679 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.2  | 0.0   | 31.2   |
| 203       | 17.0  | 0.0   | 37.8   |



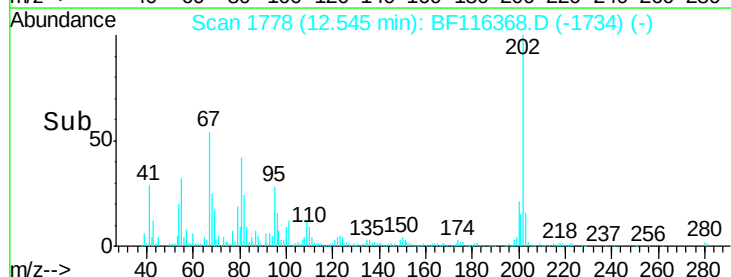
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

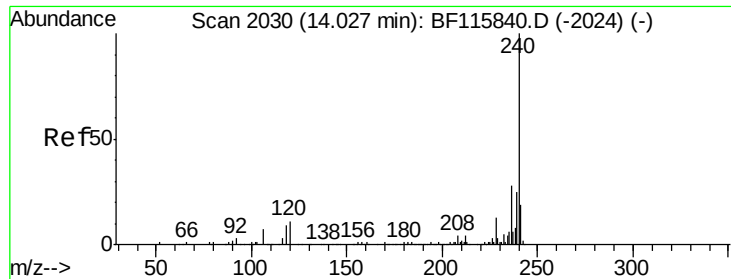
Ion 203.00 (202.70 to 203.70): E

12.55

Time-->







#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.04 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

Instrument :

BNA\_F

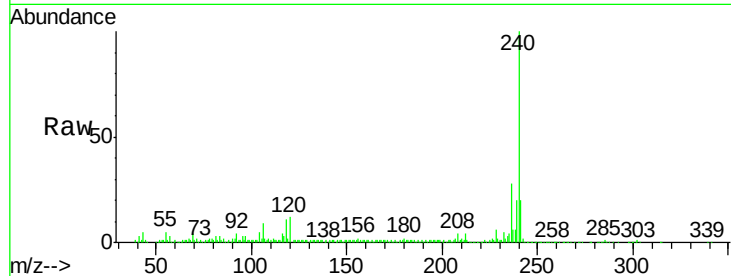
ClientSampled :

SP-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 252675 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.4  | 10.7  | 16.1   |
| 236       | 27.5  | 22.2  | 33.2   |

Manual Integrations  
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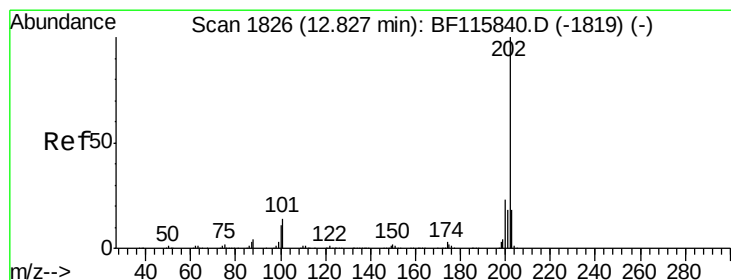
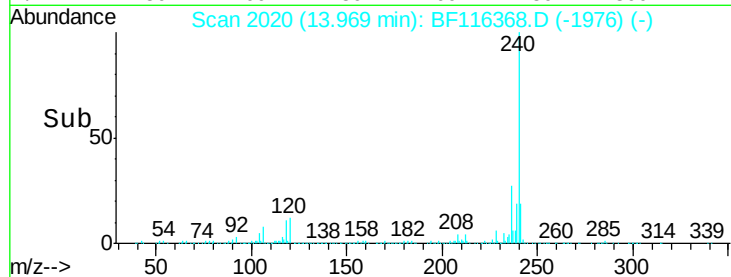
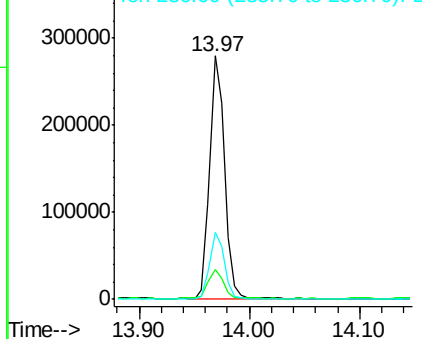
Jagrut  
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 4.347 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.04 min

Lab File: BF116368.D

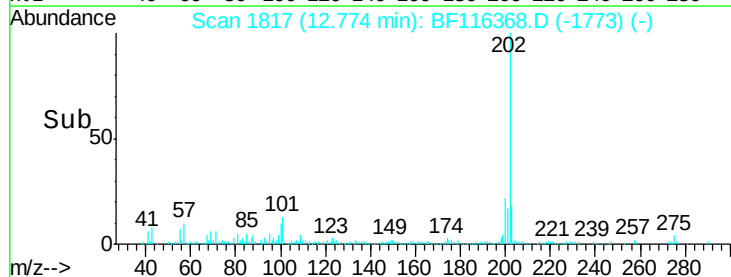
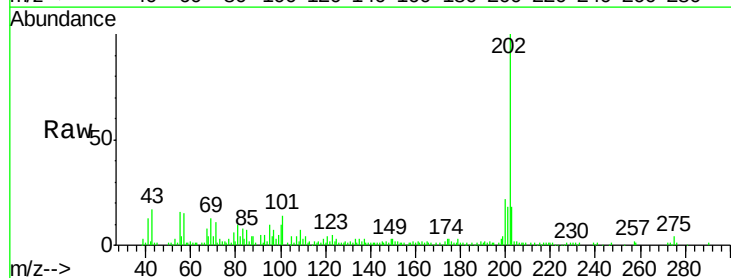
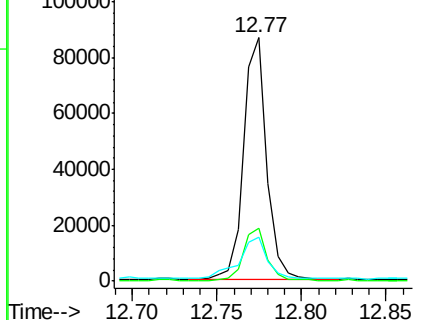
Acq: 17 Aug 2019 20:07

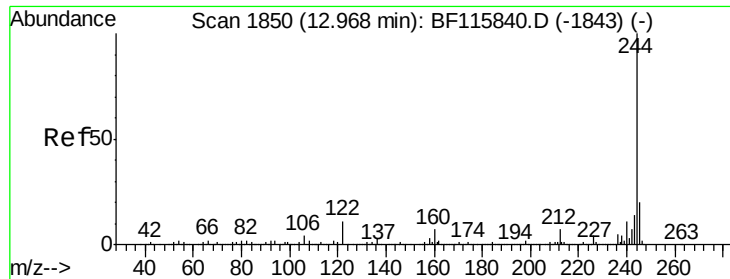
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 82790 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.7  | 18.0  | 27.0  |
| 203       | 18.2  | 14.1  | 21.1  |

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 71.172 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.05 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

Instrument :

BNA\_F

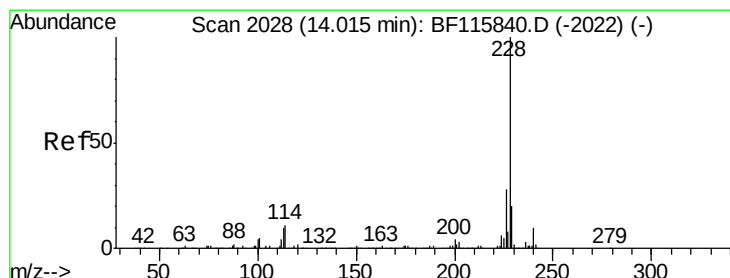
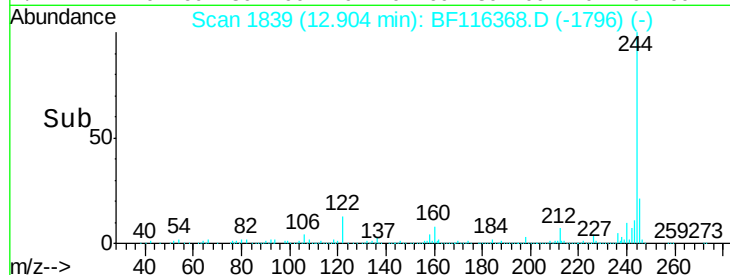
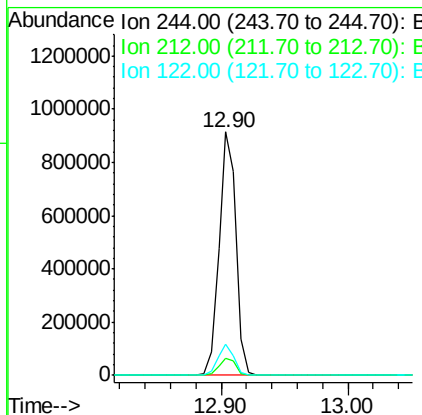
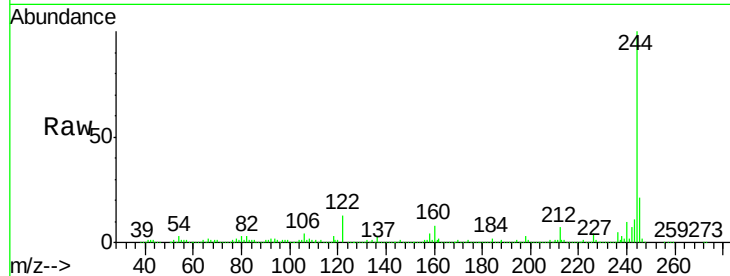
ClientSampleId :

SP-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 853445 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.3   | 5.8   | 8.8    |
| 122       | 12.8  | 9.0   | 13.4   |

Manual Integrations  
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#81

Benzo(a)anthracene

Concen: 2.254 ng

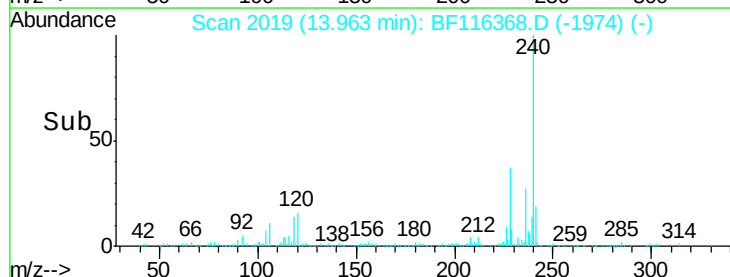
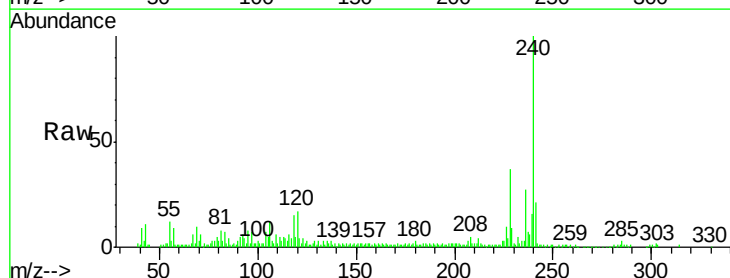
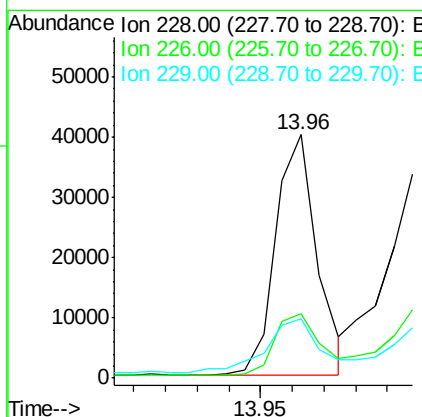
RT: 13.96 min Scan# 2019

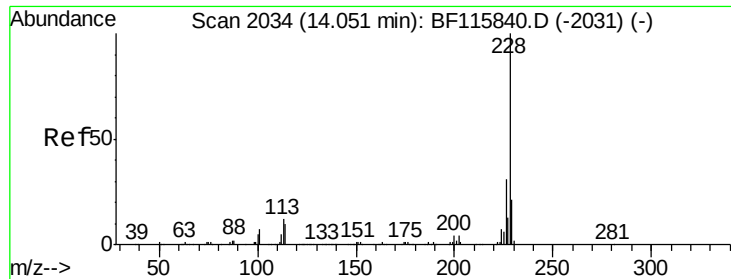
Delta R.T. -0.04 min

Lab File: BF116368.D

Acq: 17 Aug 2019 20:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 36405 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 26.5  | 22.7  | 34.1  |
| 229       | 24.5  | 16.2  | 24.4# |





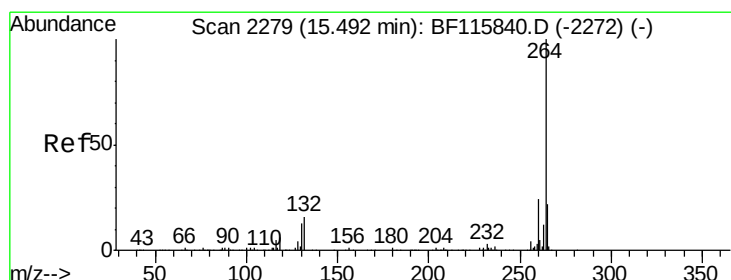
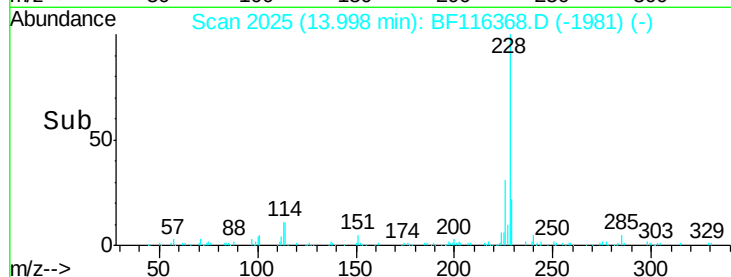
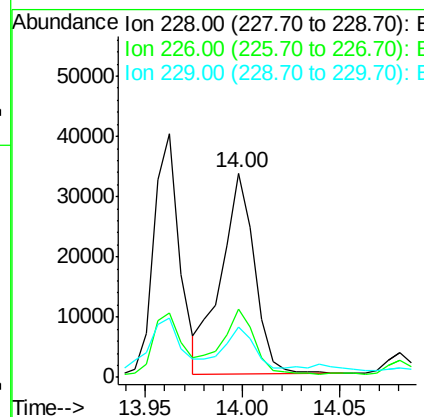
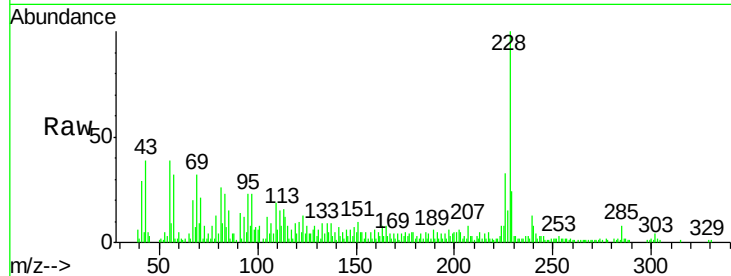
#83  
Chrysene  
Concen: 2.528 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.04 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

Instrument :  
BNA\_F  
ClientSampled :  
SP-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.4  | 25.5  | 38.3  |
| 229     | 24.4  | 16.6  | 24.8  |

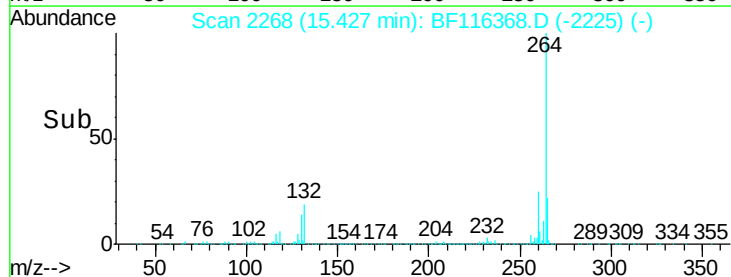
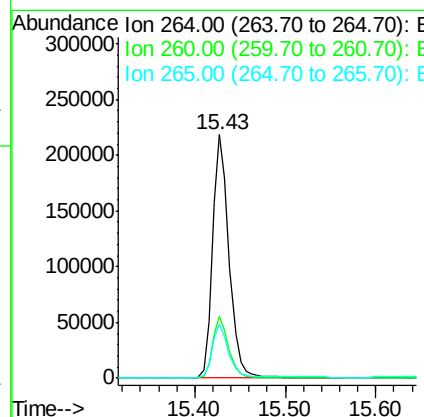
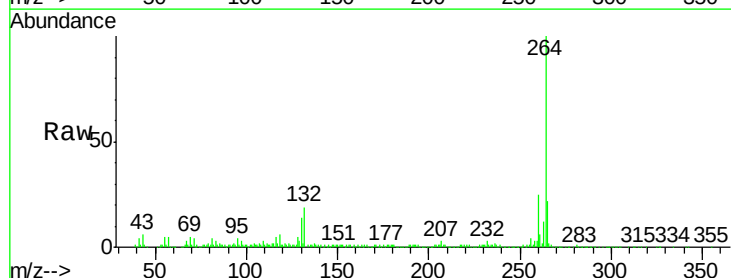
Manual Integrations  
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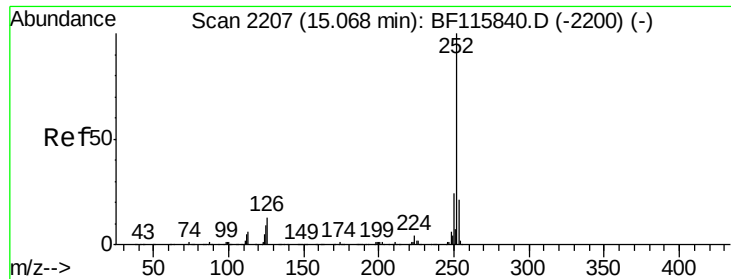
Jagrut  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. -0.05 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 19.7  | 29.5  |
| 265     | 22.0  | 17.4  | 26.0  |





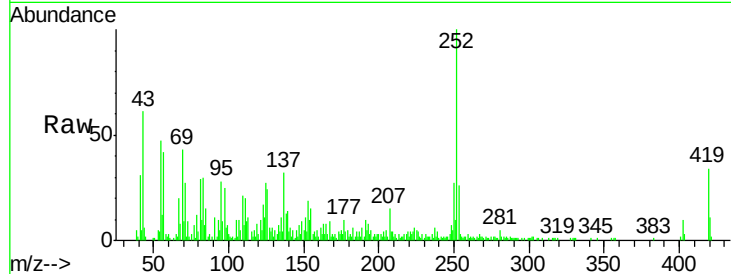
#88  
Benzo(b)fluoranthene  
Concen: 3.033 ng/mL  
RT: 15.01 min Scan# 2197  
Delta R.T. -0.04 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

Instrument :  
BNA\_F  
ClientSampled :  
SP-3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 26.1  | 17.8       | 26.8  |
| 125     | 26.8  | 8.4        | 12.6  |

Manual Integrations  
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Jagrut  
8/19/2019 3:31:13 PM

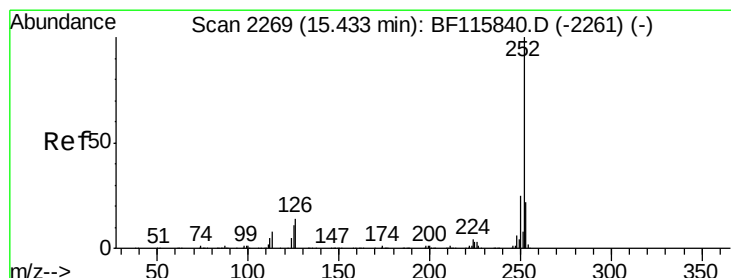
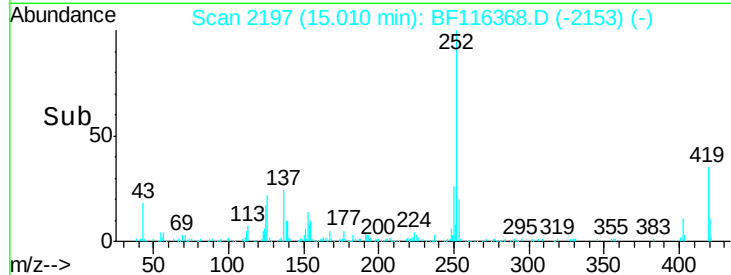
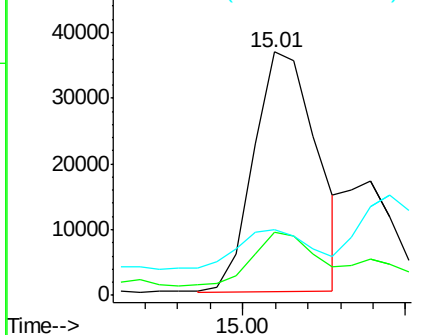


Abundance

Ion 252.00 (251.70 to 252.70): E

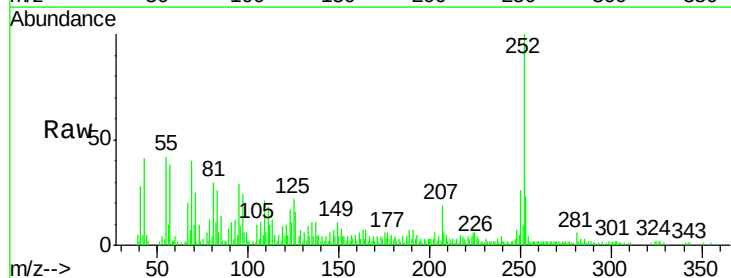
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90  
Benzo(a)pyrene  
Concen: 2.255 ng/mL  
RT: 15.37 min Scan# 2259  
Delta R.T. -0.04 min  
Lab File: BF116368.D  
Acq: 17 Aug 2019 20:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.6  | 18.0       | 27.0  |
| 125     | 21.5  | 8.9        | 13.3  |



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

