

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080719\  
 Data File : BF116043.D  
 Acq On : 7 Aug 2019 11:54  
 Operator : HP/JU  
 Sample : K4152-06  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-H1-H4-COMP-(30)

Manual Integrations  
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 8/8/2019 4:46:43 PM

Quant Time: Aug 07 14:22:15 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   | 6.84  | 152  | 140523   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.12  | 136  | 541882   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.87  | 164  | 292223   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.36 | 188  | 508880   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.00 | 240  | 311475   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.47 | 264  | 294871   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 896532   | 106.80 | ng    | 0.00     |
| 7) Phenol-d6                | 6.48  | 99   | 1154744  | 109.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 739078   | 78.73  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 197626   | 69.75  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1191477  | 76.37  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.95 | 244  | 1261995  | 85.38  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.59  | 163  | 288225   | 14.486 | ng    | 98       |
| 71) Phenanthrene            | 11.39 | 178  | 132700   | 5.101  | ng    | 98       |
| 74) Di-n-butylphthalate     | 11.96 | 149  | 137354   | 4.929  | ng    | # 97     |
| 75) Fluoranthene            | 12.58 | 202  | 219549   | 8.061  | ng    | 92       |
| 78) Pyrene                  | 12.81 | 202  | 183152   | 7.801  | ng    | # 94     |
| 81) Benzo(a)anthracene      | 13.99 | 228  | 84671    | 4.253  | ng    | 97       |
| 83) Chrysene                | 14.03 | 228  | 65585    | 3.393  | ng    | 96       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.94 | 276  | 33990    | 2.094  | ng    | # 92     |
| 88) Benzo(b)fluoranthene    | 15.04 | 252  | 77684m   | 4.556  | ng    |          |
| 90) Benzo(a)pyrene          | 15.40 | 252  | 57083    | 3.745  | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 17.39 | 276  | 32825    | 2.533  | ng    | # 94     |

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

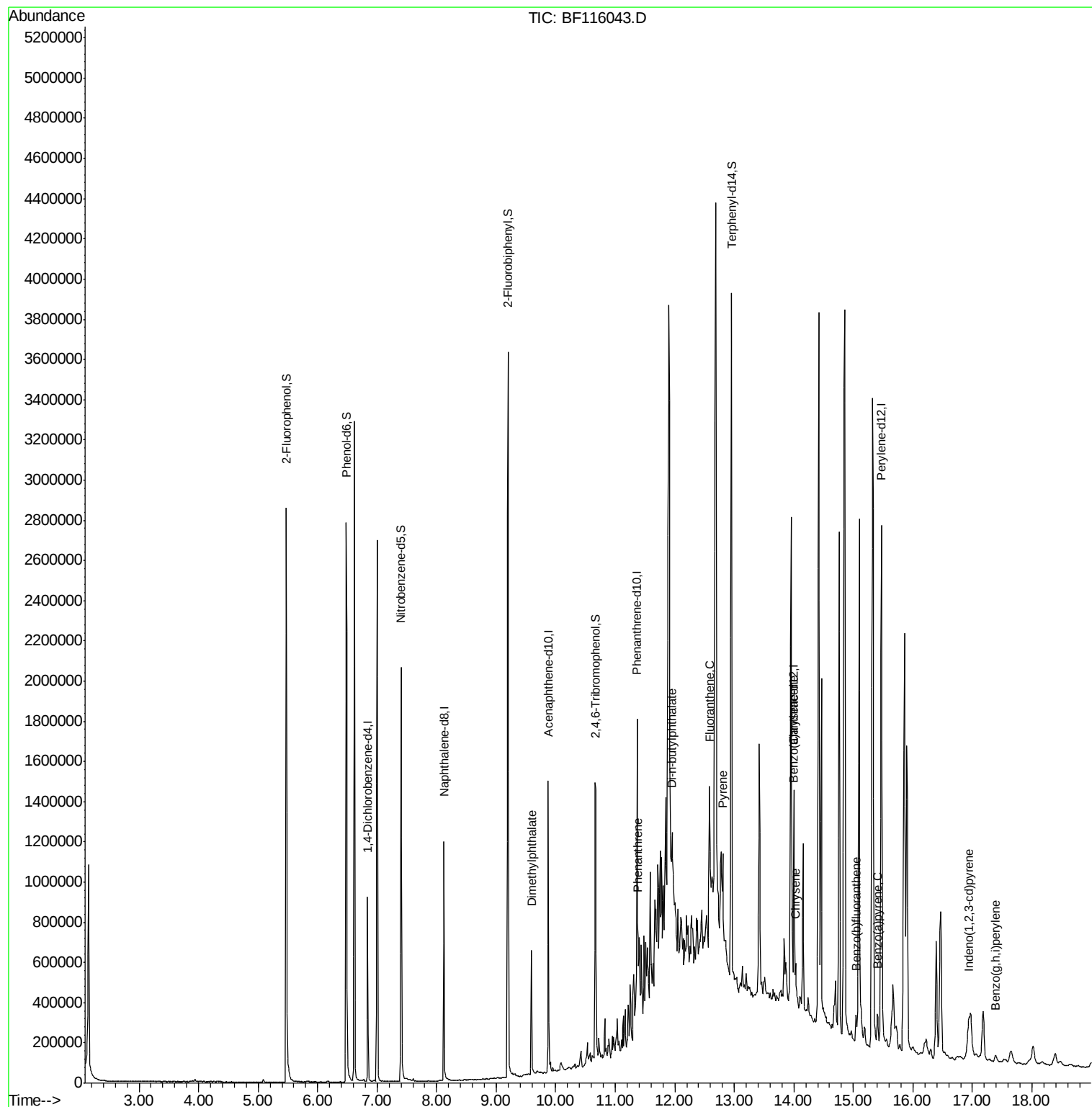
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080719\  
Data File : BF116043.D  
Acq On : 7 Aug 2019 11:54  
Operator : HP/JU  
Sample : K4152-06  
Misc :  
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Instrument :  
BNA\_F  
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2S-H1-H4-COMP-(30)

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Quant Time: Aug 07 14:22:15 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





#1

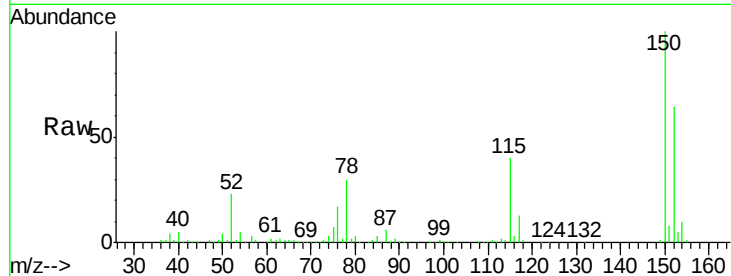
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

Instrument :  
BNA\_F  
ClientSampleId :  
2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 126.2 | 189.2 |
| 115     | 63.7  | 49.9  | 74.9  |

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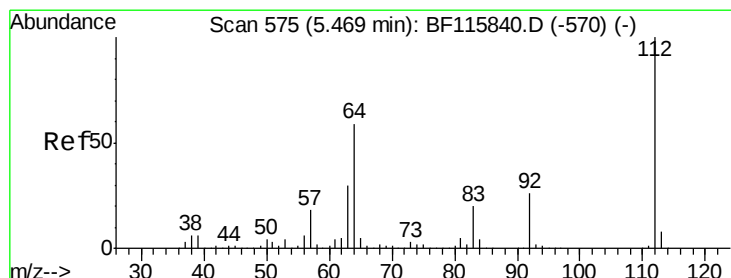
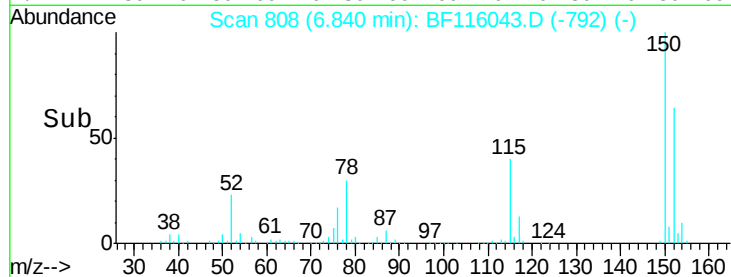
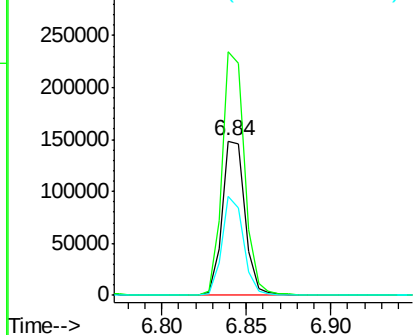


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

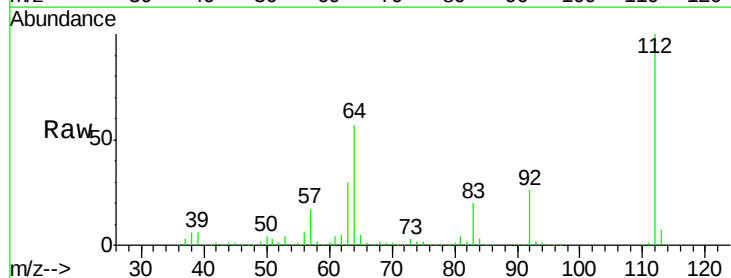
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 106.805 ng  
RT: 5.47 min Scan# 576  
Delta R.T. 0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.1  | 45.4  | 68.2  |
| 63      | 29.8  | 23.7  | 35.5  |

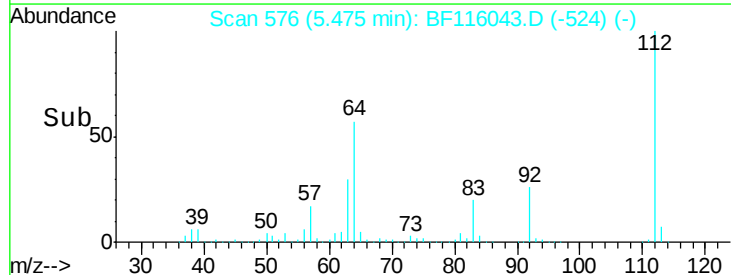
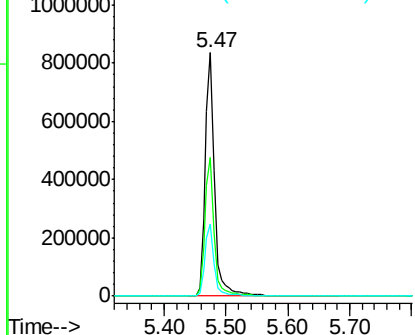


Abundance

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: 109.034 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116043.D

Acq: 7 Aug 2019 11:54

Instrument :

BNA\_F

ClientSampleId :

2S-H1-H4-COMP-(30)

Tot Ion: 99 Resp: 1154744

Ion Ratio Lower Upper

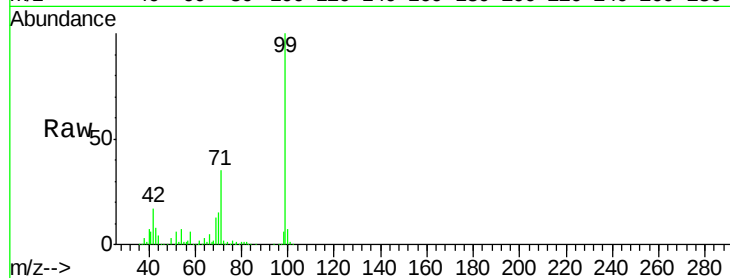
99 100

42 17.1 13.8 20.8

71 34.6 27.3 40.9

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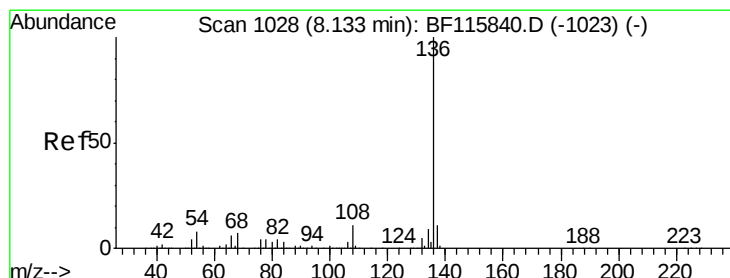
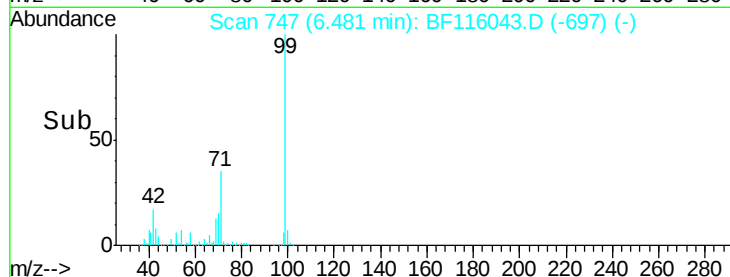
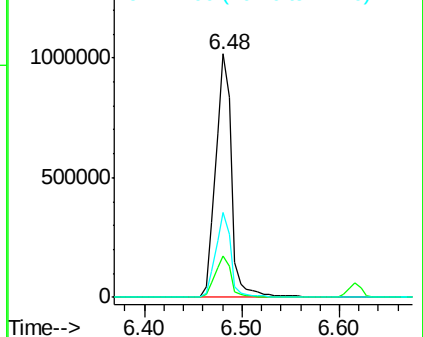
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF116043.D

Acq: 7 Aug 2019 11:54

Tgt Ion: 136 Resp: 541882

Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 7.1 5.8 8.6

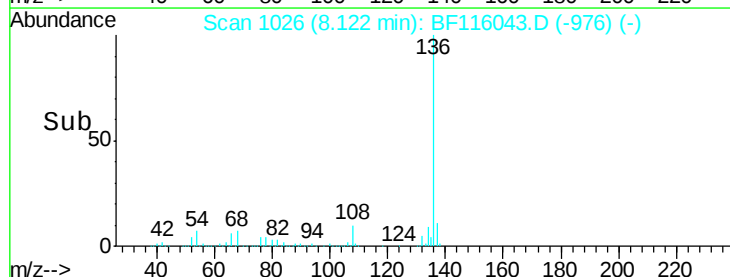
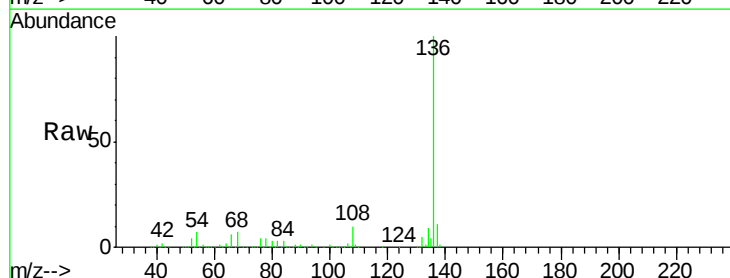
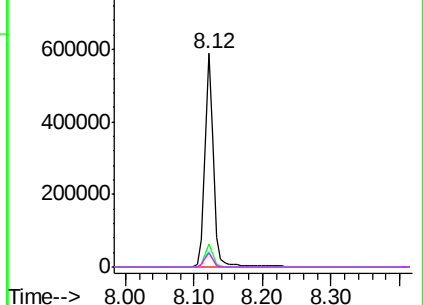
68 6.7 5.2 7.8

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





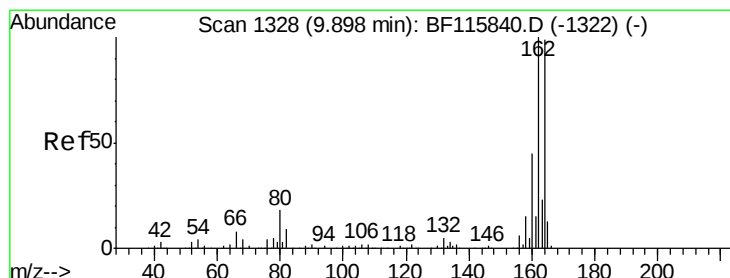
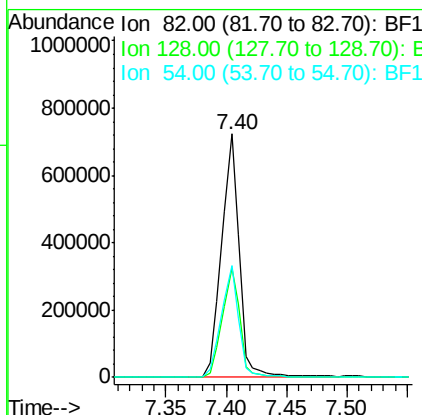
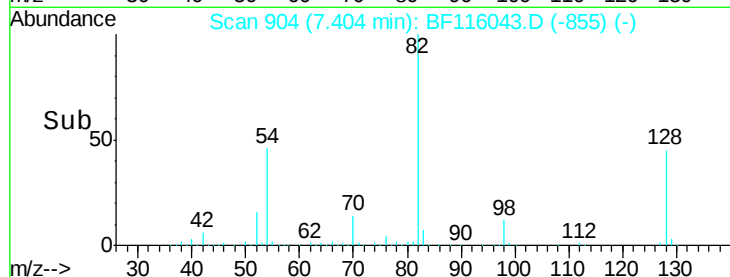
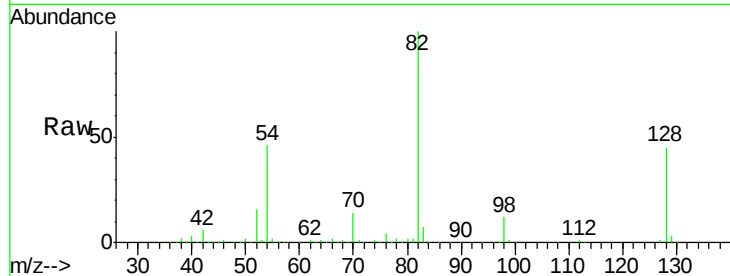
#23  
 Nitrobenzene-d5  
 Concen: 78.729 ng  
 RT: 7.40 min Scan# 904  
 Delta R.T. -0.01 min  
 Lab File: BF116043.D  
 Acq: 7 Aug 2019 11:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.8  | 36.5  | 54.7  |
| 54      | 45.8  | 36.0  | 54.0  |

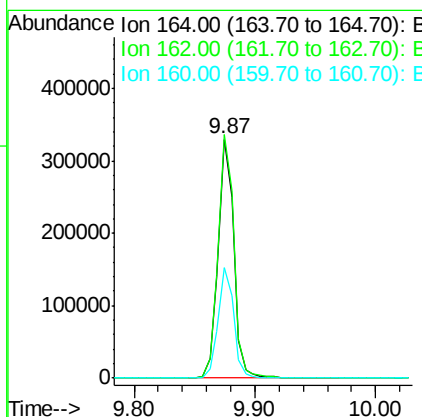
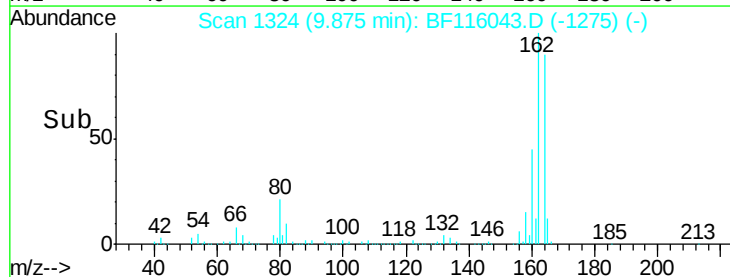
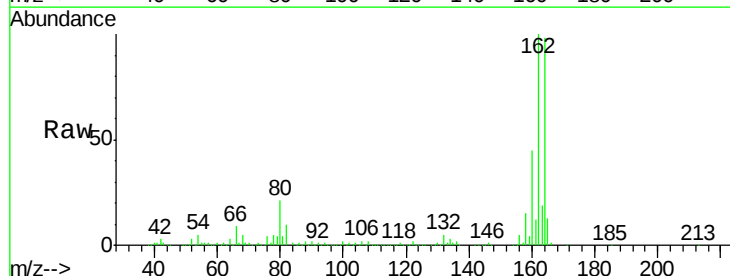
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. -0.01 min  
 Lab File: BF116043.D  
 Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.1 | 82.6  | 124.0 |
| 160     | 46.1  | 37.6  | 56.4  |





#42

2,4,6-Tribromophenol

Concen: 69.754 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116043.D

Acq: 7 Aug 2019 11:54

Instrument :

BNA\_F

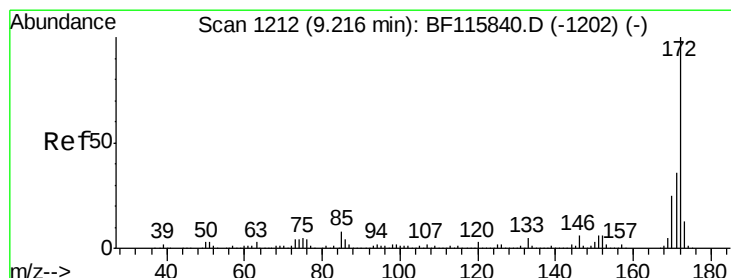
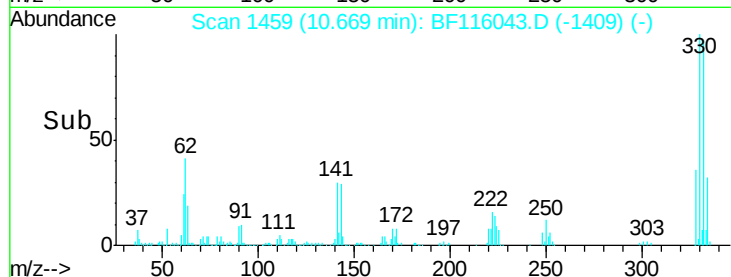
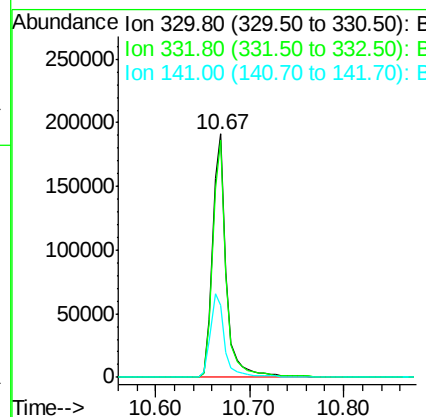
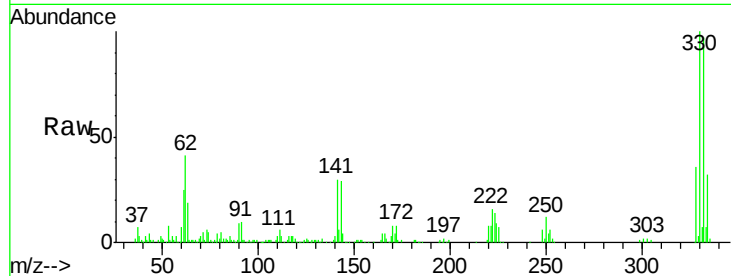
ClientSampleId :

2S-H1-H4-COMP-(30)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 197626 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.0  | 76.8  | 115.2  |
| 141       | 36.2  | 26.3  | 39.5   |

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#45

2-Fluorobiphenyl

Concen: 76.371 ng

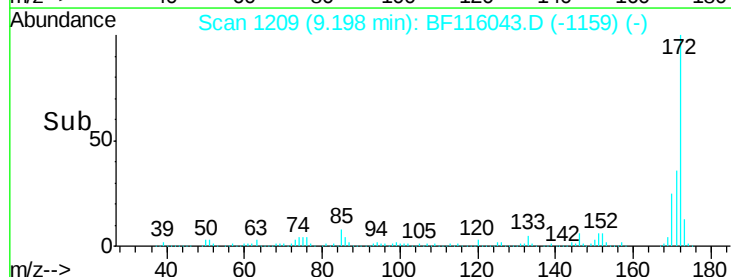
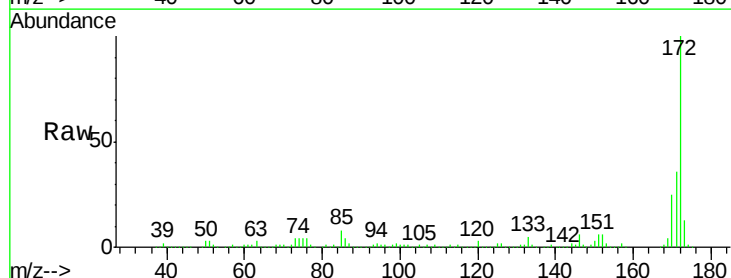
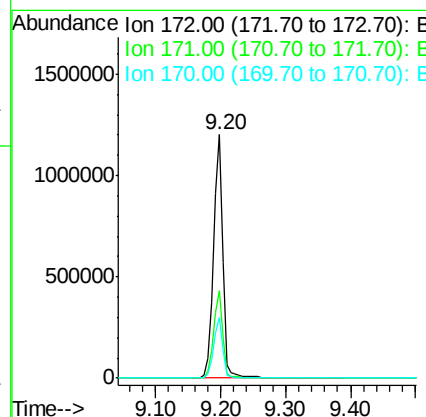
RT: 9.20 min Scan# 1209

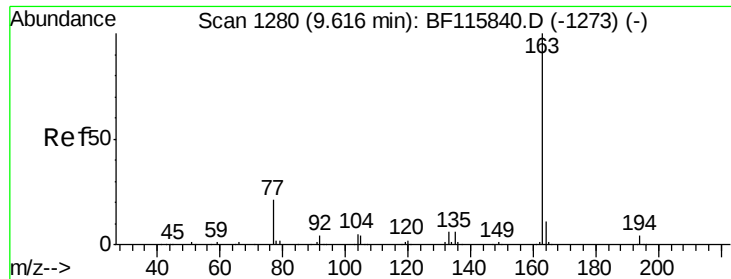
Delta R.T. -0.01 min

Lab File: BF116043.D

Acq: 7 Aug 2019 11:54

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1191477 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 36.1  | 29.6  | 44.4    |
| 170       | 24.9  | 20.1  | 30.1    |





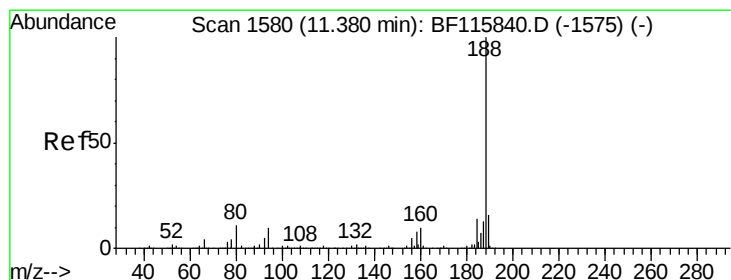
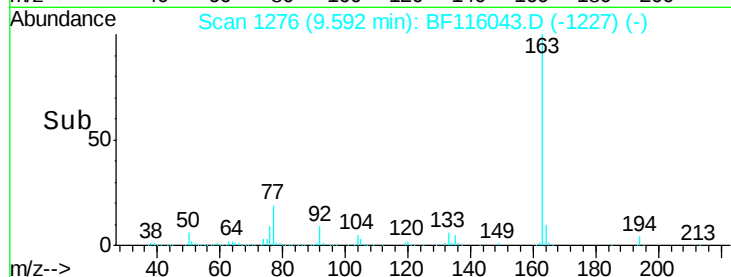
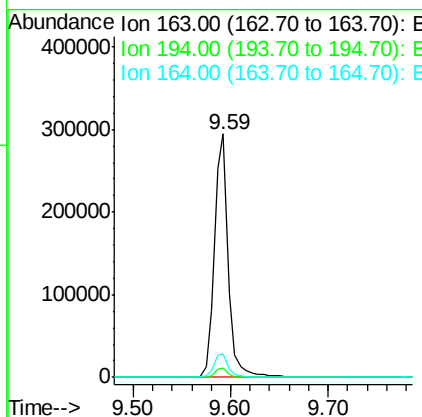
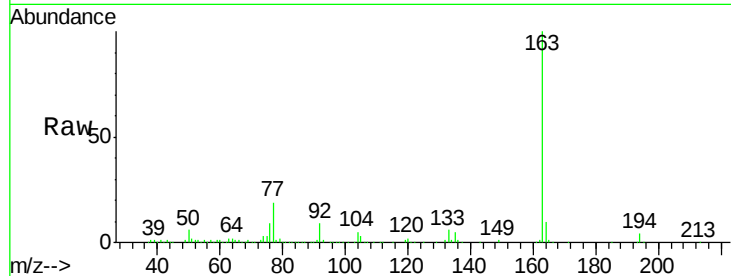
#50  
Dimethylphthalate  
Concen: 14.486 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

Instrument :  
BNA\_F  
ClientSampleId :  
2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 288225 |       |       |
| 194     | 3.9   |        | 3.0   | 4.6   |
| 164     | 9.6   |        | 8.4   | 12.6  |

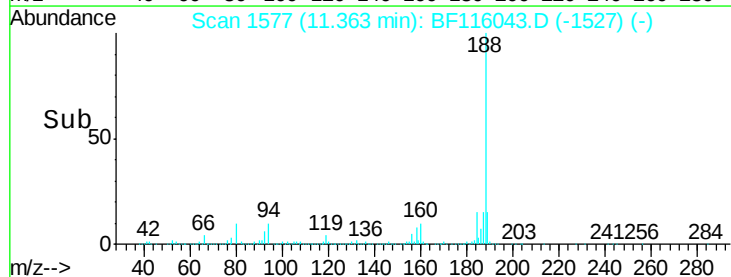
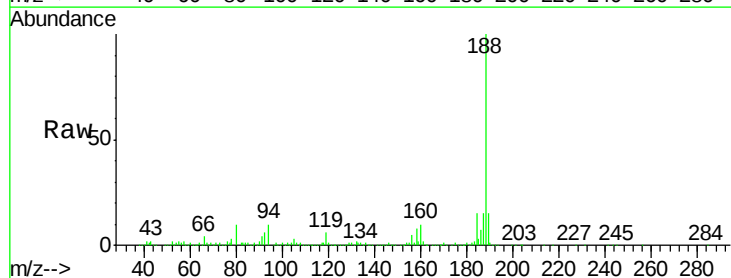
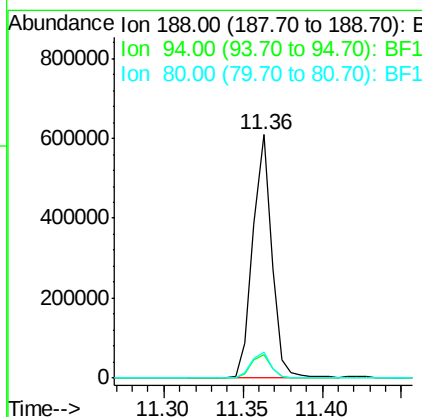
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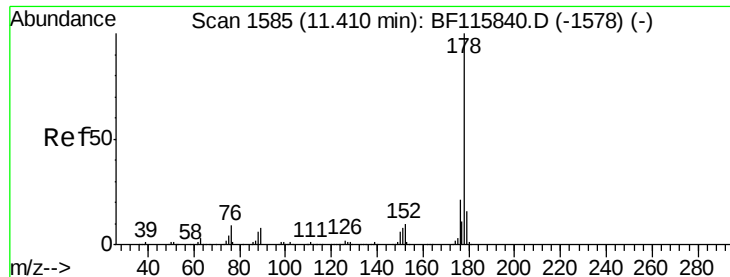
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 508880 |       |       |
| 94      | 9.9   |        | 8.1   | 12.1  |
| 80      | 10.5  |        | 8.7   | 13.1  |





#71

Phenanthrene

Concen: 5.101 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF116043.D

Acq: 7 Aug 2019 11:54

Instrument :

BNA\_F

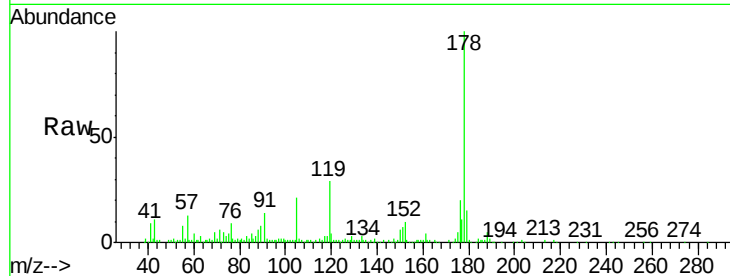
ClientSampleId :

2S-H1-H4-COMP-(30)

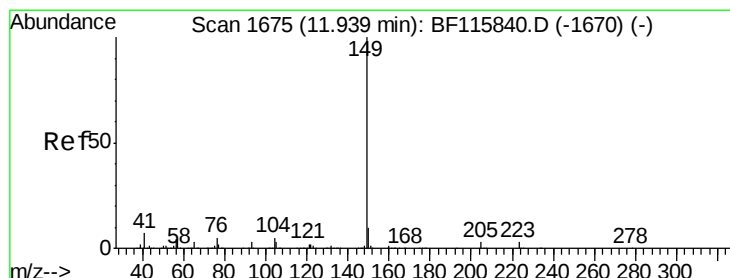
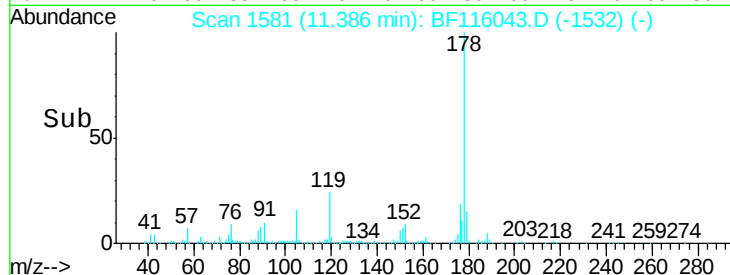
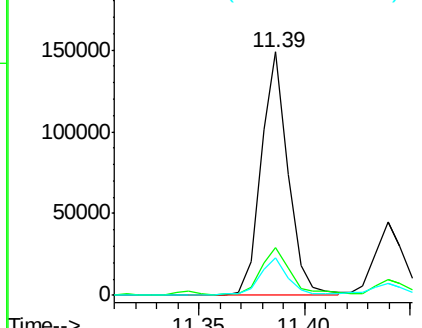
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 132700 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.6  | 16.6  | 24.8   |
| 179       | 15.2  | 12.5  | 18.7   |

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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



#74

Di-n-butylphthalate

Concen: 4.929 ng

RT: 11.96 min Scan# 1678

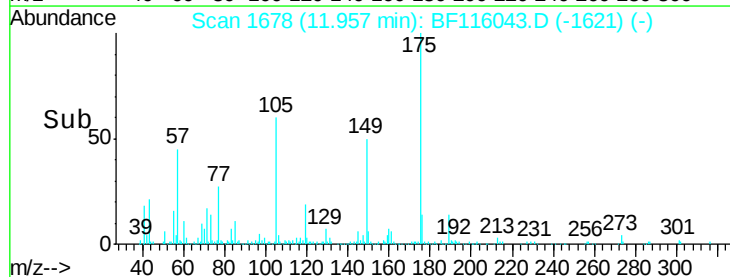
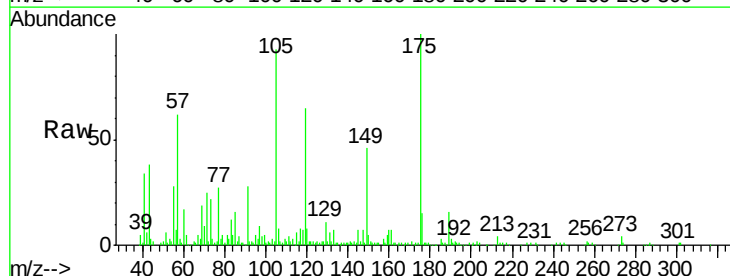
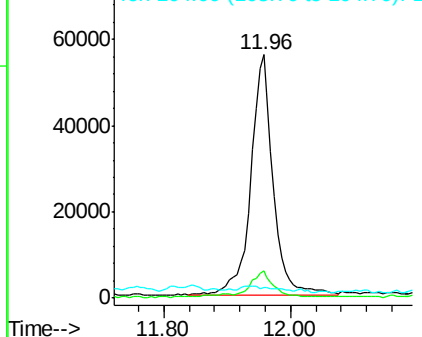
Delta R.T. 0.04 min

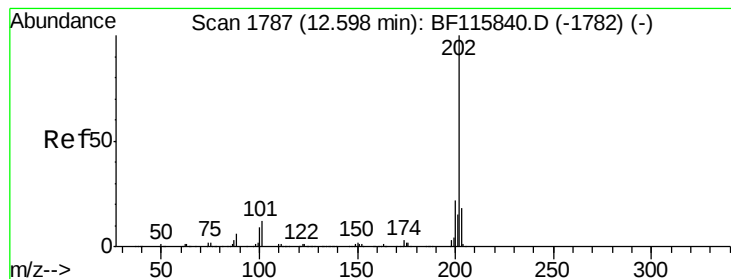
Lab File: BF116043.D

Acq: 7 Aug 2019 11:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 137354 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 11.1  | 8.0   | 12.0   |
| 104       | 4.2   | 4.5   | 6.7#   |

Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E





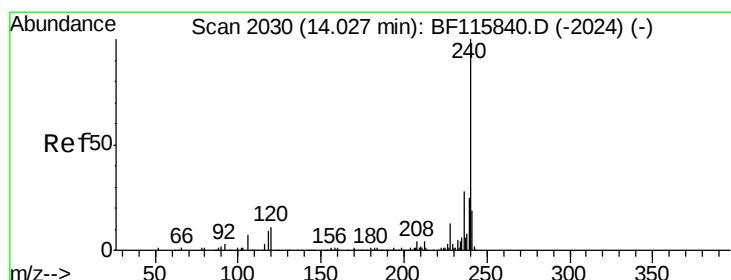
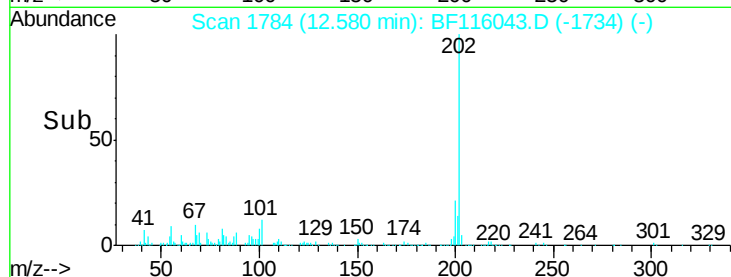
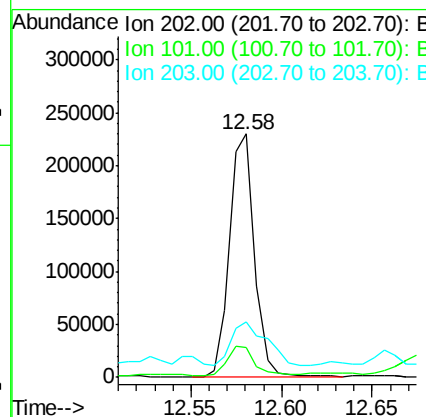
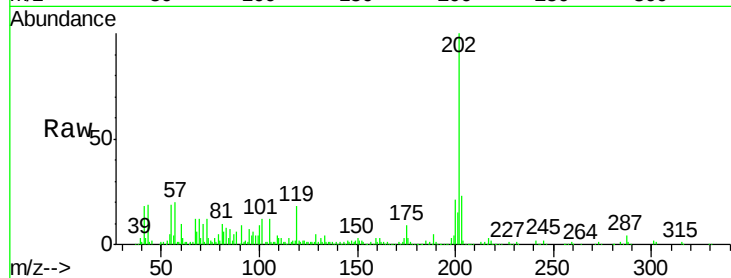
#75  
 Fluoranthene  
 Concen: 8.061 ng  
 RT: 12.58 min Scan# 1784  
 Delta R.T. -0.01 min  
 Lab File: BF116043.D  
 Acq: 7 Aug 2019 11:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 219549 |       |       |
| 101     | 12.3  | 0.0    | 31.2  |       |
| 203     | 23.0  | 0.0    | 37.8  |       |

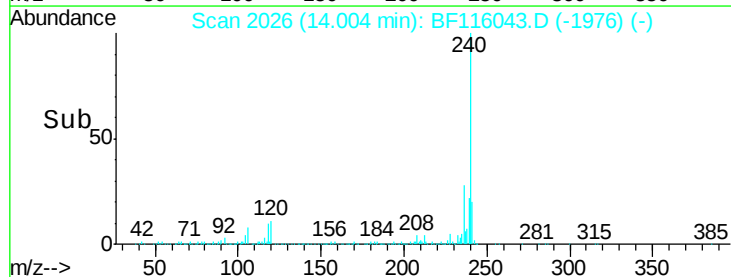
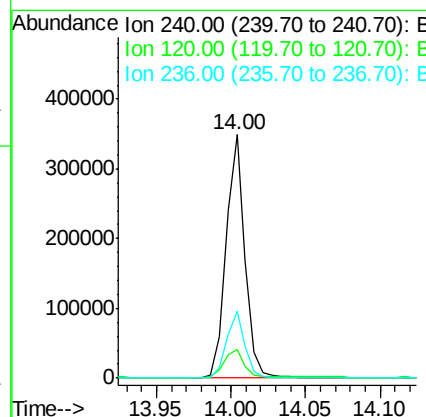
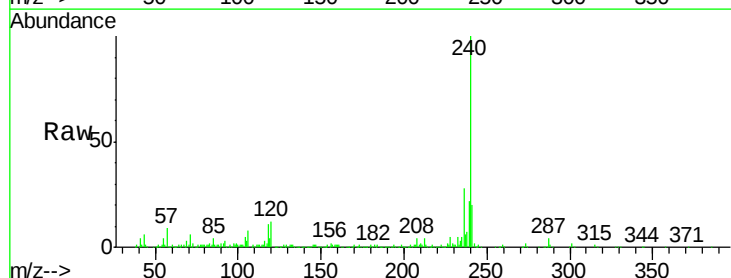
Manual Integrations  
 APPROVED

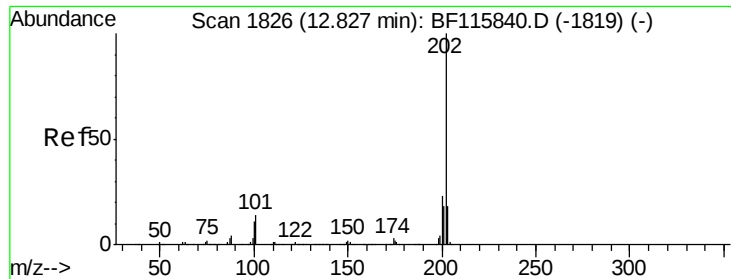
mohammad  
 8/8/2019 4:46:43 PM



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. -0.01 min  
 Lab File: BF116043.D  
 Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 311475 |       |       |
| 120     | 11.8  | 10.7   | 16.1  |       |
| 236     | 27.7  | 22.2   | 33.2  |       |





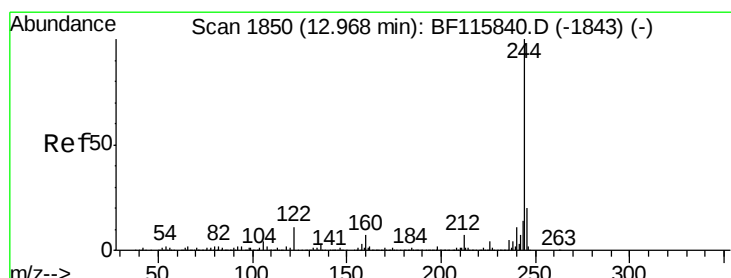
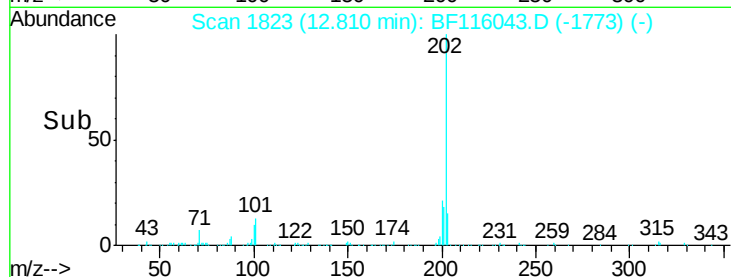
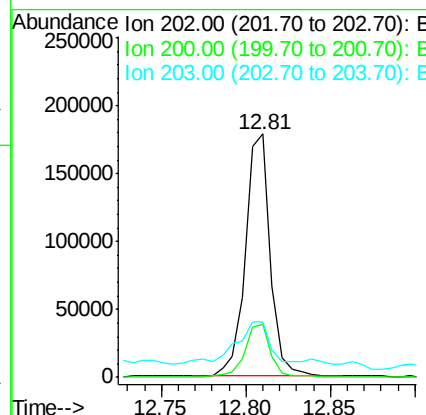
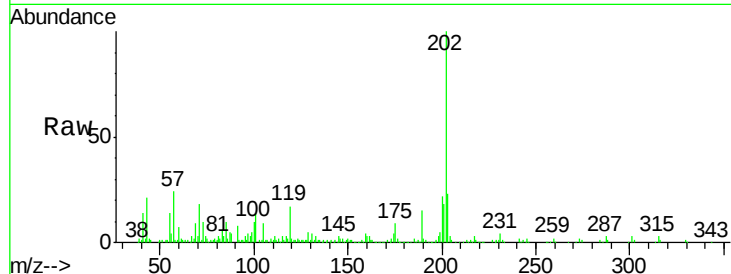
#78  
Pvrene  
Concen: 7.801 ng  
RT: 12.81 min Scan# 1823  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

Instrument :  
BNA\_F  
ClientSampleId :  
2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 21.6  | 18.0       | 27.0       |
| 203     | 22.6  | 14.1       | 21.1       |

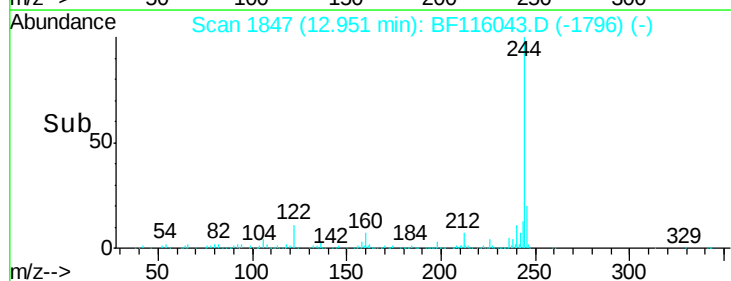
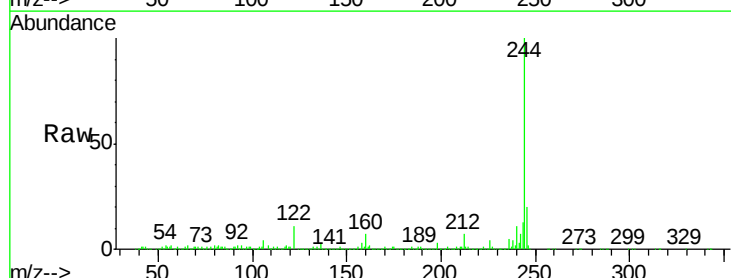
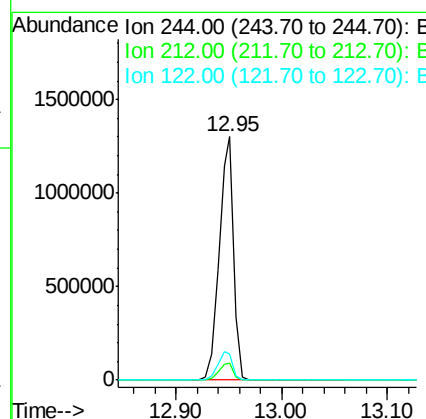
Manual Integrations  
APPROVED

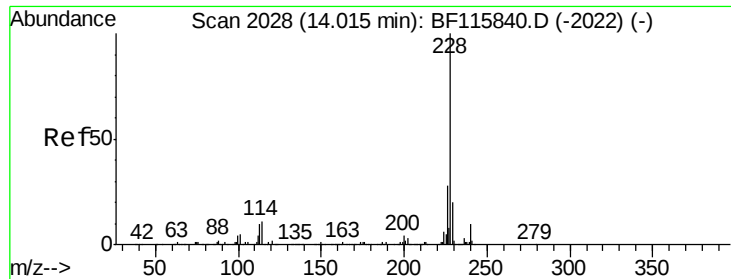
mohammad  
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#79  
Terphenyl-d14  
Concen: 85.375 ng  
RT: 12.95 min Scan# 1847  
Delta R.T. 0.00 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 7.1   | 5.8        | 8.8        |
| 122     | 10.7  | 9.0        | 13.4       |





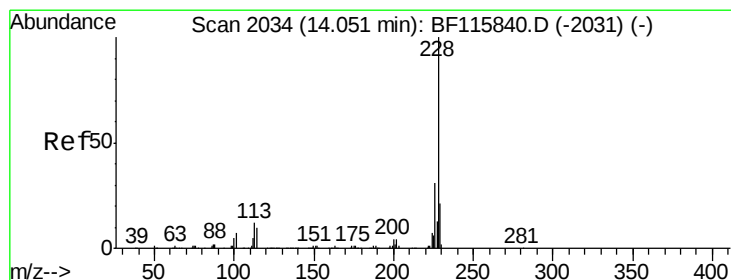
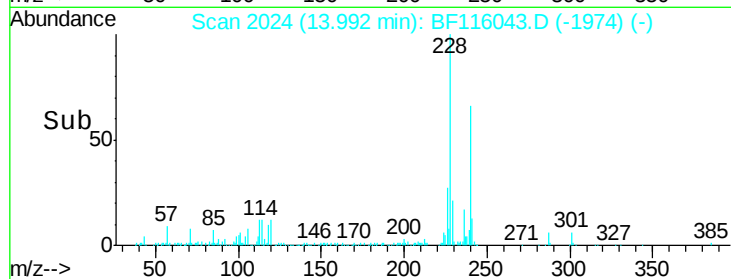
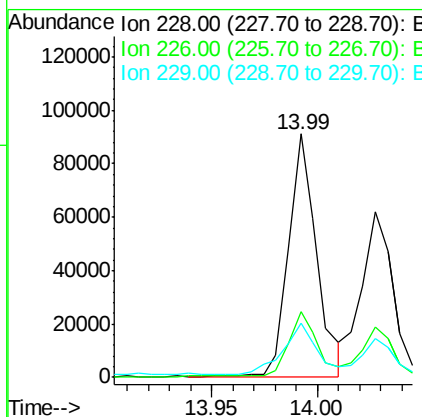
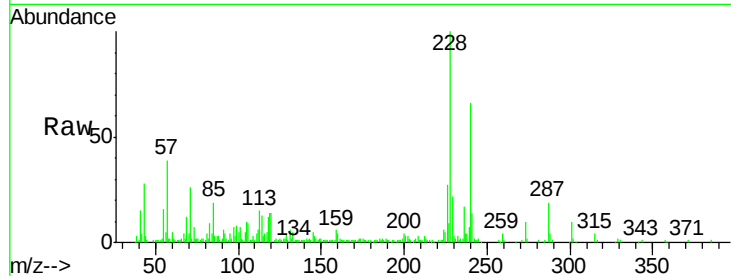
#81  
Benzo(a)anthracene  
Concen: 4.253 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

Instrument :  
BNA\_F  
ClientSampleId :  
2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.1  | 22.7  | 34.1  |
| 229     | 22.0  | 16.2  | 24.4  |

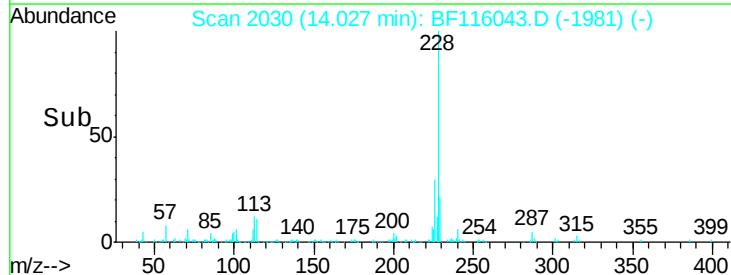
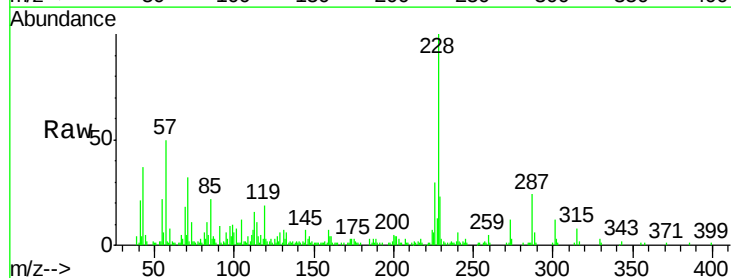
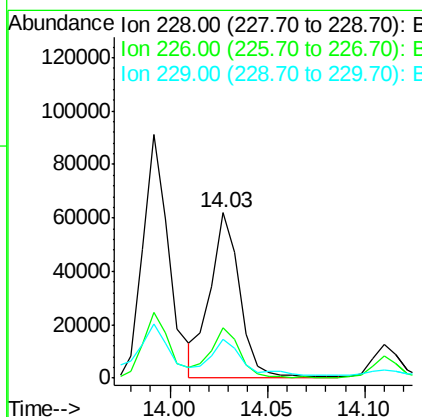
Manual Integrations  
APPROVED

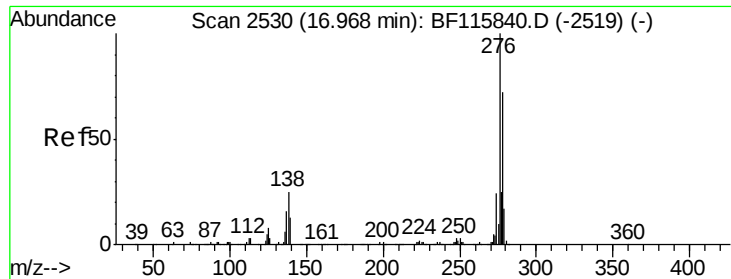
mohammad  
8/8/2019 4:46:43 PM



#83  
Chrysene  
Concen: 3.393 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 25.5  | 38.3  |
| 229     | 23.2  | 16.6  | 24.8  |





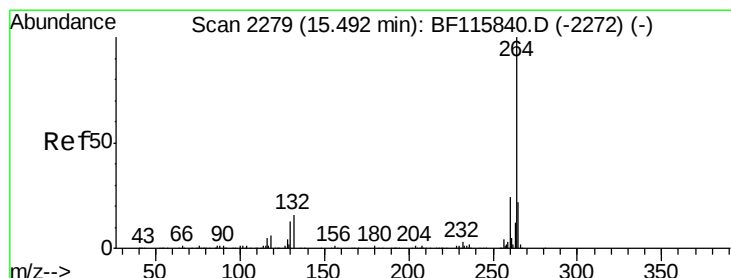
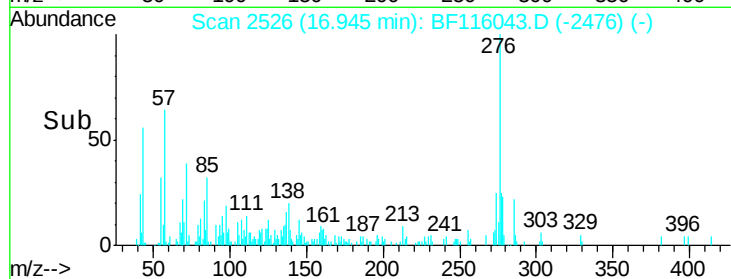
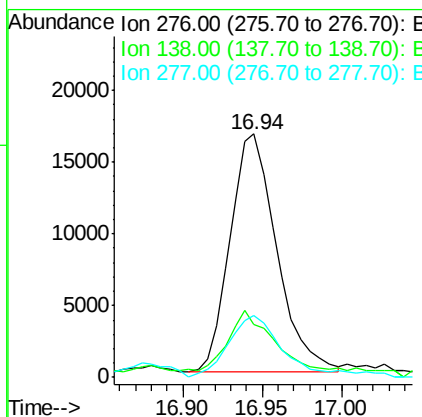
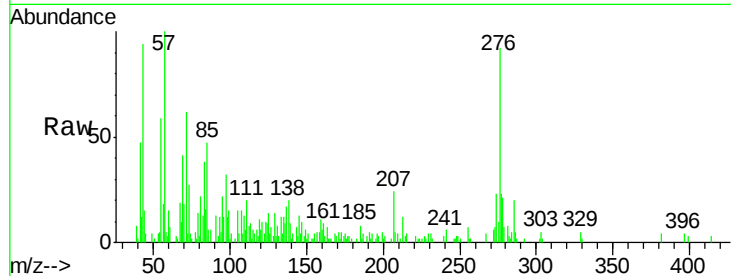
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.094 ng  
RT: 16.94 min Scan# 2526  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

Instrument :  
BNA\_F  
ClientSampleId :  
2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.9  | 20.4  | 30.6  |
| 277     | 31.2  | 20.0  | 30.0  |

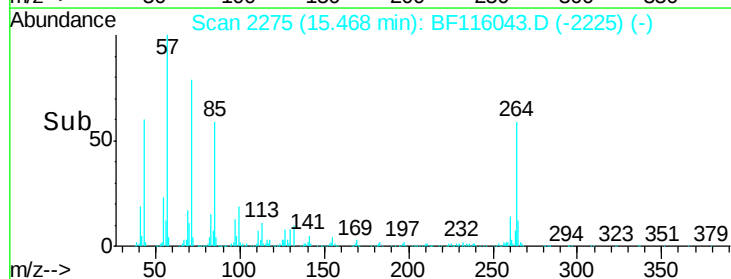
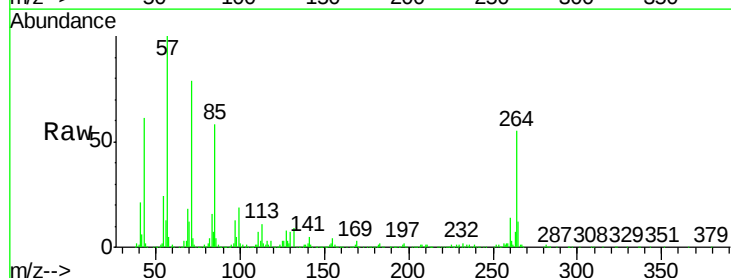
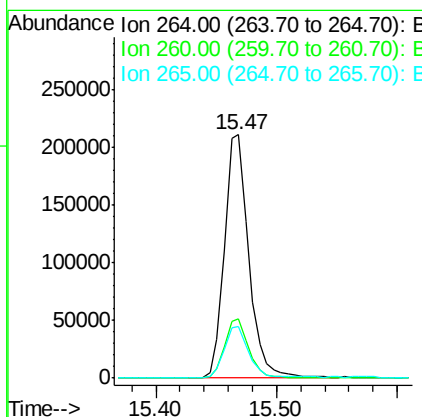
Manual Integrations  
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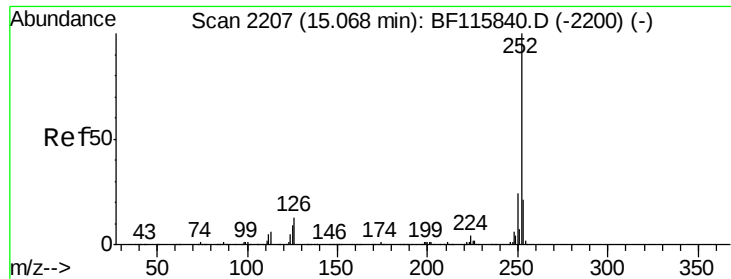
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.7  | 29.5  |
| 265     | 21.2  | 17.4  | 26.0  |





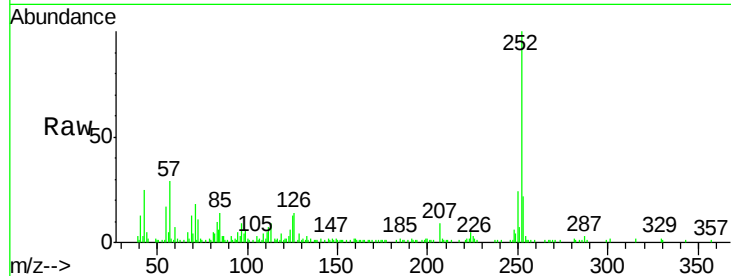
#88  
Benzo(b)fluoranthene  
Concen: 4.556 ng m  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

Instrument :  
BNA\_F  
ClientSampleId :  
2S-H1-H4-COMP-(30)

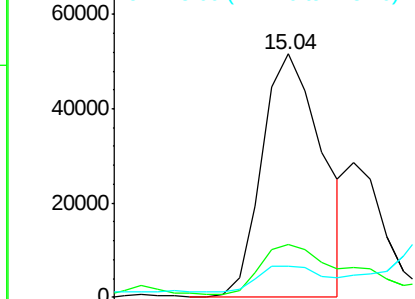
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.8  | 26.8  |
| 125     | 12.8  | 8.4   | 12.6  |

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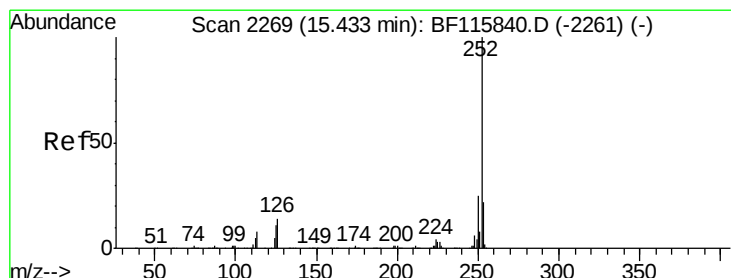
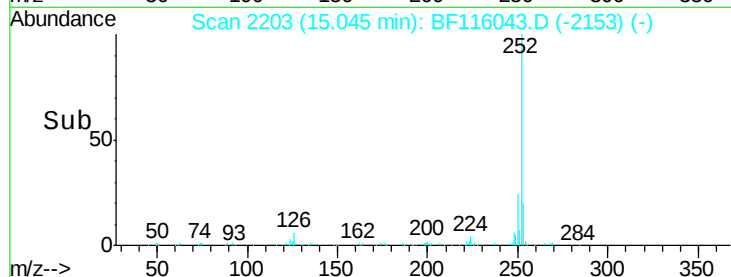
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

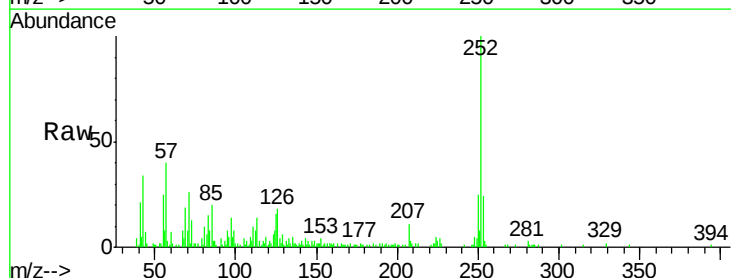


Time-->

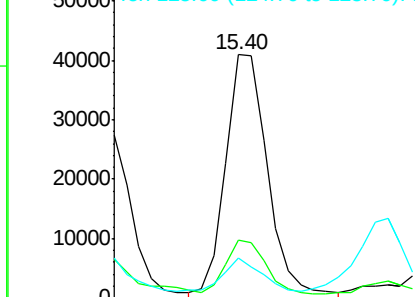


#90  
Benzo(a)pyrene  
Concen: 3.745 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. -0.01 min  
Lab File: BF116043.D  
Acq: 7 Aug 2019 11:54

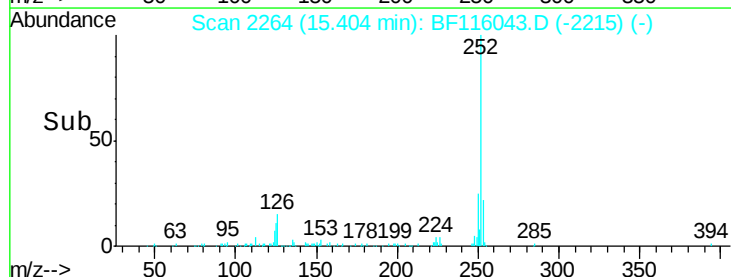
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.0  | 27.0  |
| 125     | 16.4  | 8.9   | 13.3  |

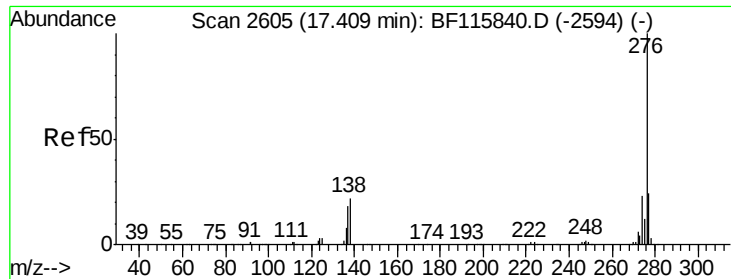


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



Time-->





#92  
 Benzo(a,h,i)perylene  
 Concen: 2.533 ng  
 RT: 17.39 min Scan# 2601  
 Delta R.T. 0.00 min  
 Lab File: BF116043.D  
 Acq: 7 Aug 2019 11:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-H1-H4-COMP-(30)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 18.4  | 27.6  |
| 138     | 26.1  | 17.0  | 25.6  |

Manual Integrations  
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