

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091918\  
 Data File : BF109143.D  
 Acq On : 19 Sep 2018 15:08  
 Operator : JU/SJ  
 Sample : J4967-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-UST-091718-02

Manual Integrations  
 APPROVED

Sohil  
 9/20/2018 10:06:34 AM

Quant Time: Sep 19 15:35:41 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 125785   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.00  | 136  | 421486   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.75  | 164  | 171377   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.23 | 188  | 321489   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.87 | 240  | 304407   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.29 | 264  | 233598   | 20.00  | ng    | 0.04     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 487400   | 64.36  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 605955   | 62.05  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 408290   | 54.33  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 131488   | 70.70  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 666361   | 60.92  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.82 | 244  | 636021   | 49.52  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 9) Benzaldehyde             | 6.26  | 77   | 29769    | 4.773  | ng    | 96       |
| 37) 2-Methylnaphthalene     | 8.71  | 142  | 33703    | 2.643  | ng    | 97       |
| 49) Dimethylphthalate       | 9.47  | 163  | 93219    | 7.610  | ng    | # 99     |
| 70) Phenanthrene            | 11.25 | 178  | 232498   | 14.753 | ng    | 98       |
| 71) Anthracene              | 11.30 | 178  | 36734m   | 2.299  | ng    |          |
| 74) Fluoranthene            | 12.44 | 202  | 310326   | 18.652 | ng    | 98       |
| 77) Pyrene                  | 12.67 | 202  | 277222   | 12.261 | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.85 | 228  | 134146   | 7.279  | ng    | # 88     |
| 82) Chrysene                | 13.89 | 228  | 170586   | 9.251  | ng    | # 95     |
| 85) Indeno(1,2,3-cd)pyrene  | 16.65 | 276  | 70669    | 4.794  | ng    | # 93     |
| 87) Benzo(b)fluoranthene    | 14.89 | 252  | 205380m  | 15.892 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.91 | 252  | 47808m   | 3.961  | ng    |          |
| 89) Benzo(a)pyrene          | 15.23 | 252  | 98299    | 8.565  | ng    | # 71     |
| 91) Benzo(a,h,i)perylene    | 17.07 | 276  | 69064    | 7.164  | ng    | # 93     |

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

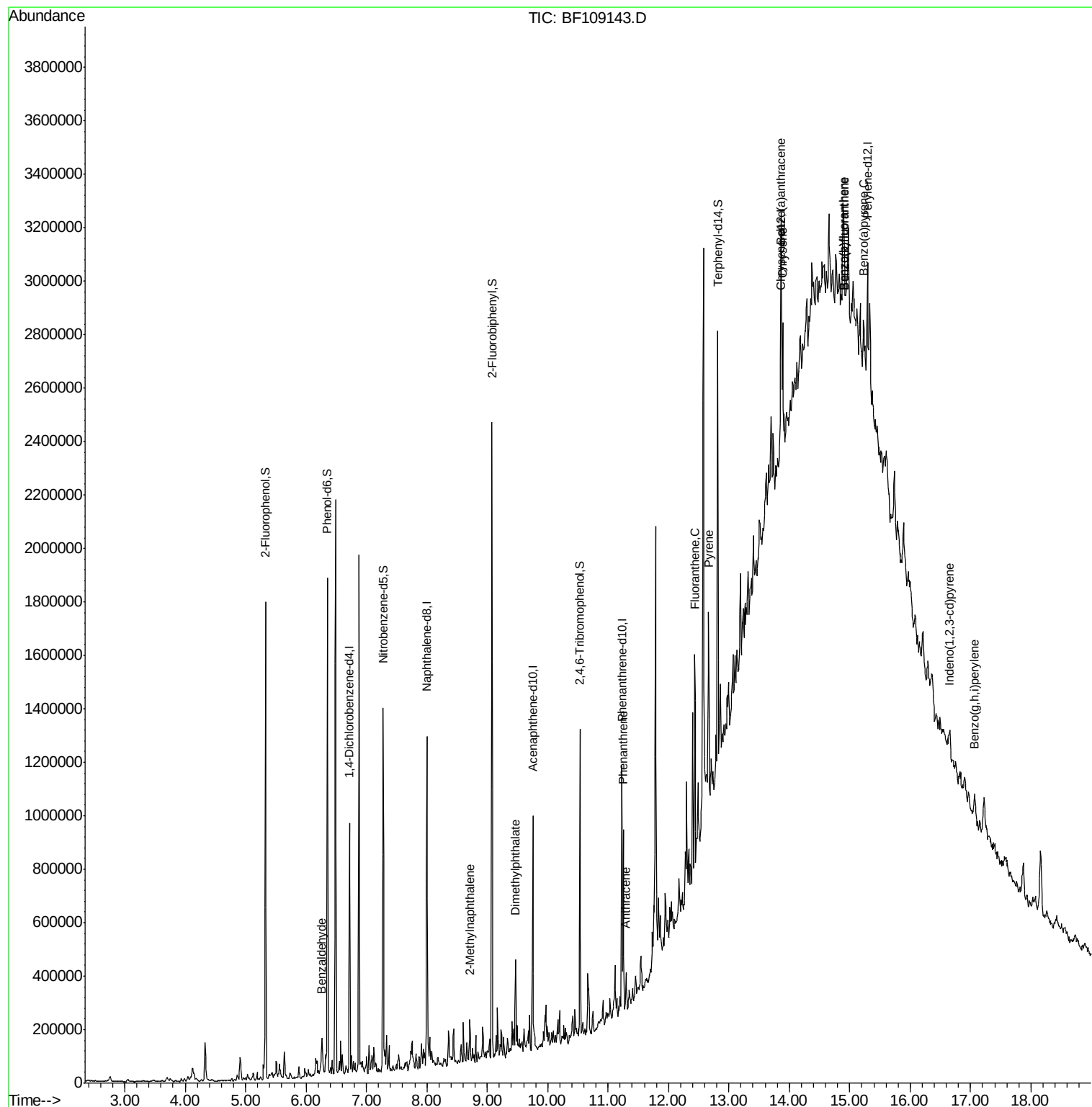
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091918\  
Data File : BF109143.D  
Acq On : 19 Sep 2018 15:08  
Operator : JU/SJ  
Sample : J4967-02  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

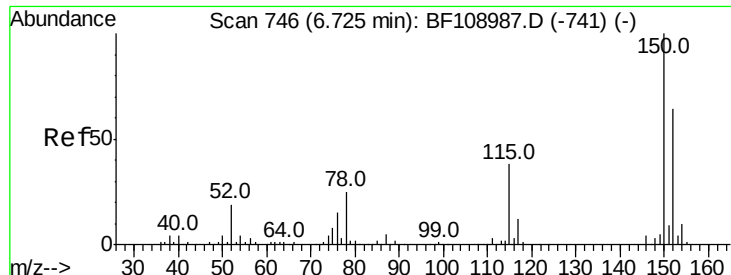
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

Quant Time: Sep 19 15:35:41 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 14 13:26:52 2018  
Response via : Initial Calibration

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#1

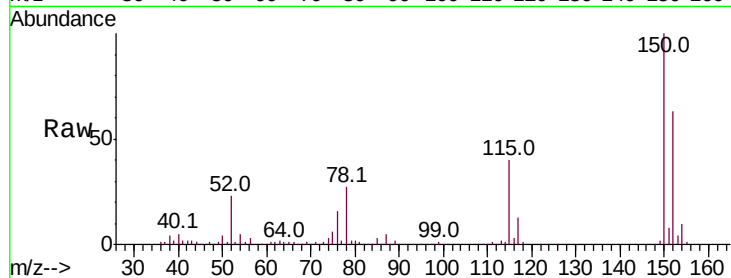
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 745  
Delta R.T. -0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.6 | 124.6 | 186.8 |
| 115     | 63.6  | 50.1  | 75.1  |

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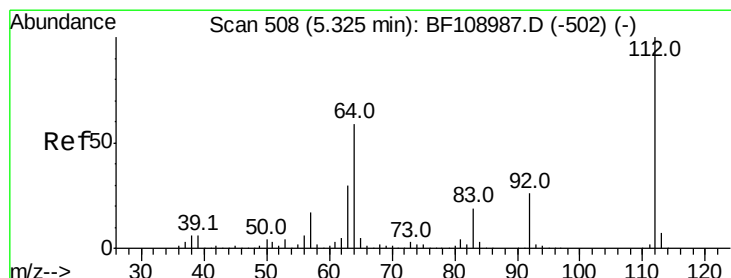
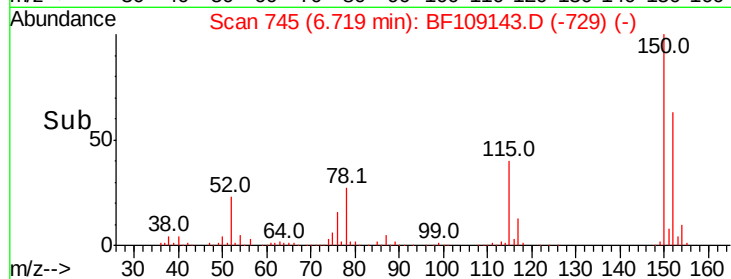
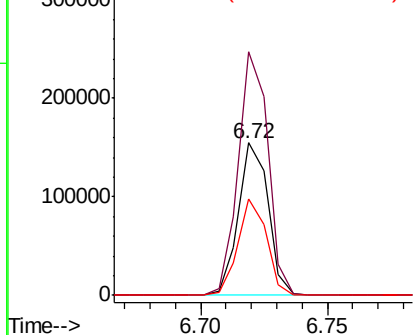


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

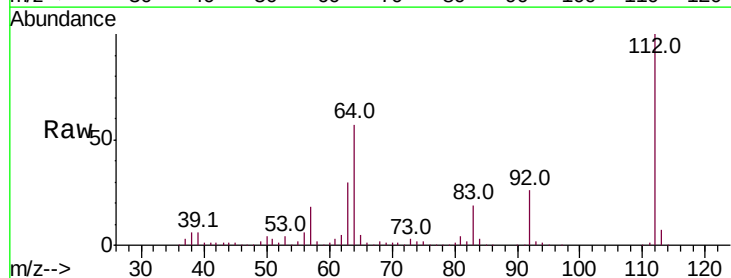
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 64.357 ng  
RT: 5.33 min Scan# 509  
Delta R.T. 0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 47.9  | 71.9  |
| 63      | 30.1  | 23.7  | 35.5  |

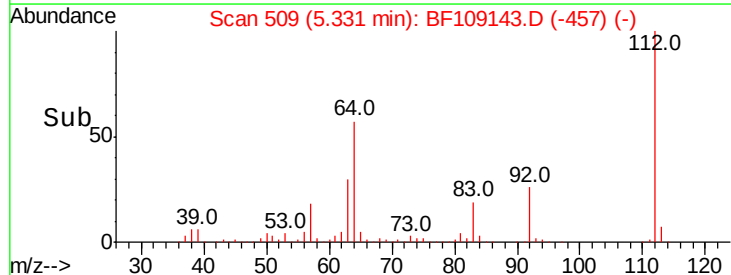
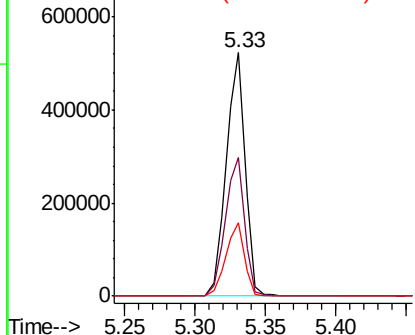


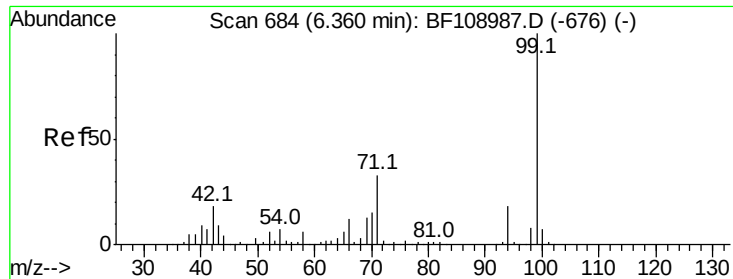
Abundance

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: 62.051 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

Instrument :

BNA\_F

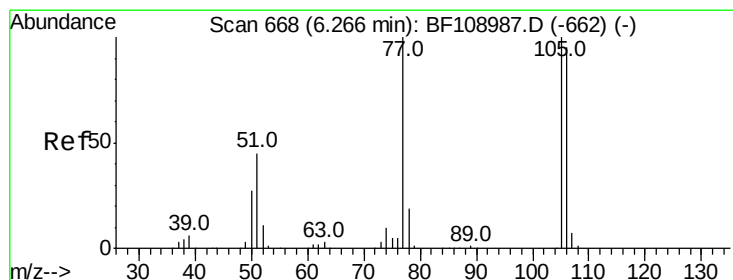
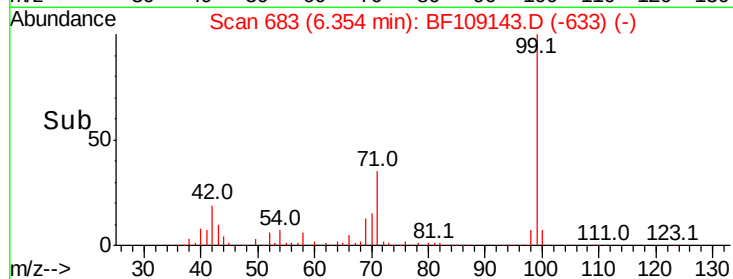
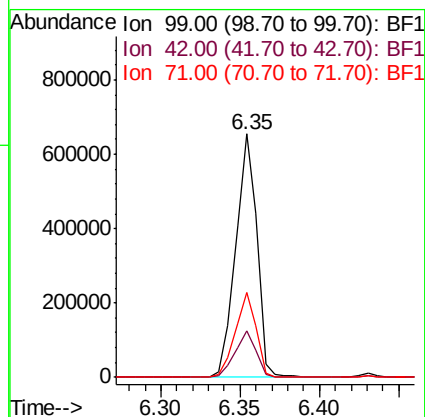
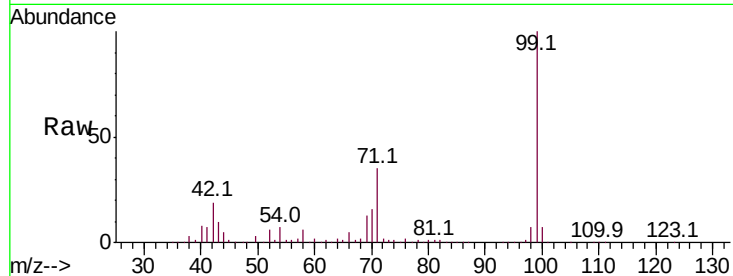
ClientSampleId :

SUP-UST-091718-02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 605955 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.0  | 14.5  | 21.7   |
| 71        | 34.9  | 25.4  | 38.0   |

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#9

Benzaldehyde

Concen: 4.773 ng

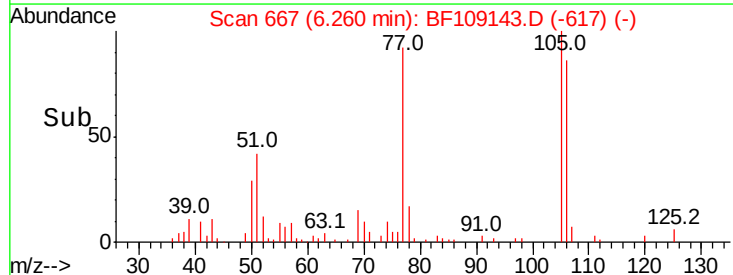
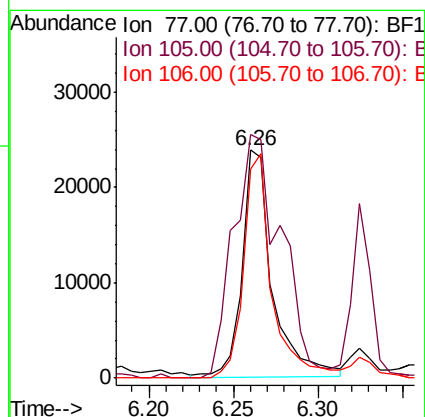
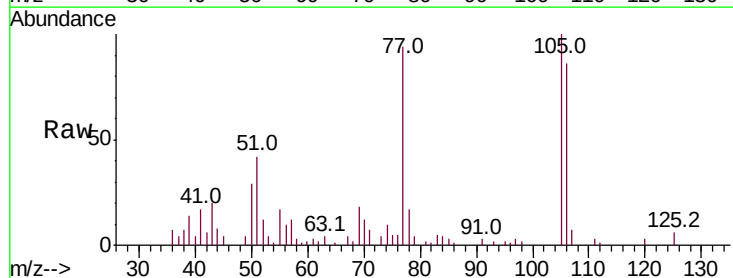
RT: 6.26 min Scan# 667

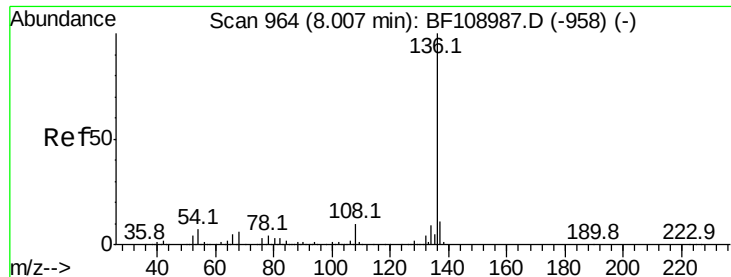
Delta R.T. -0.01 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 29769 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 105       | 106.9 | 81.1  | 121.1 |
| 106       | 91.9  | 74.5  | 114.5 |





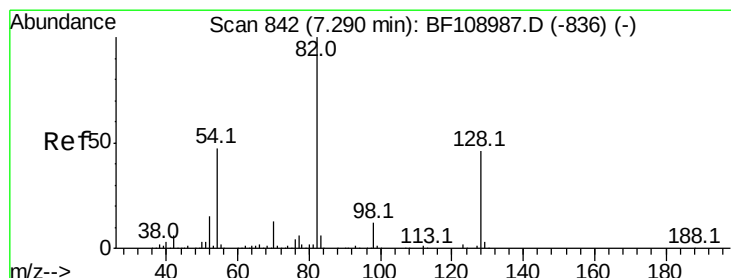
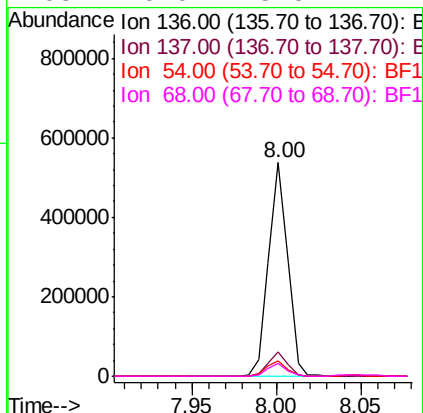
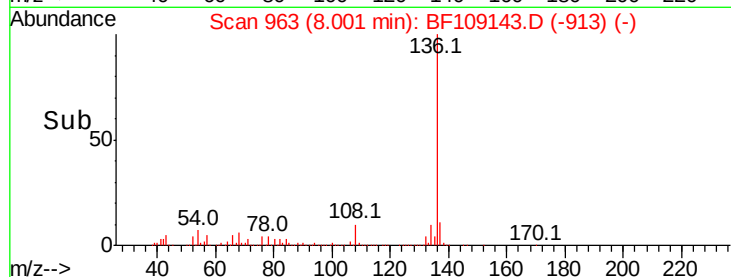
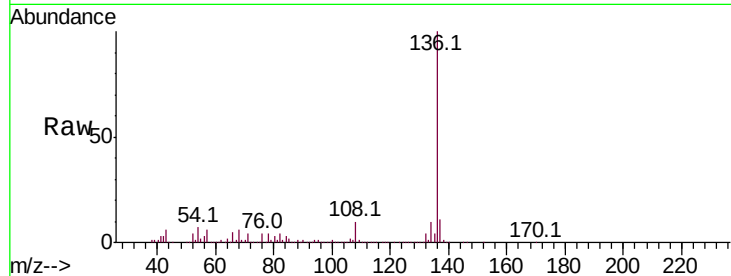
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 963  
Delta R.T. -0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.2  | 8.9  | 13.3  |       |
| 54      | 7.5   | 6.6  | 9.8   |       |
| 68      | 6.0   | 5.0  | 7.4   |       |

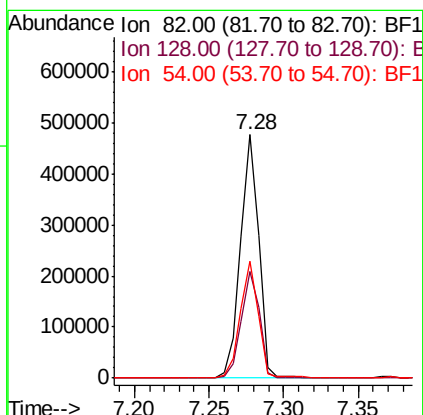
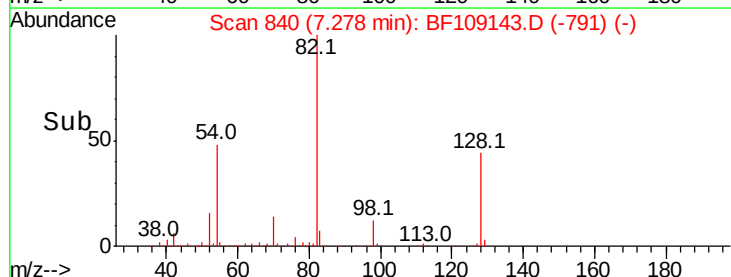
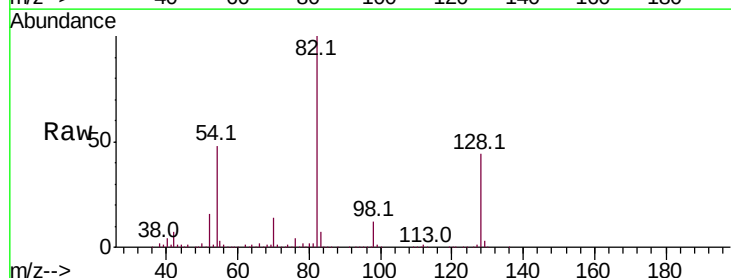
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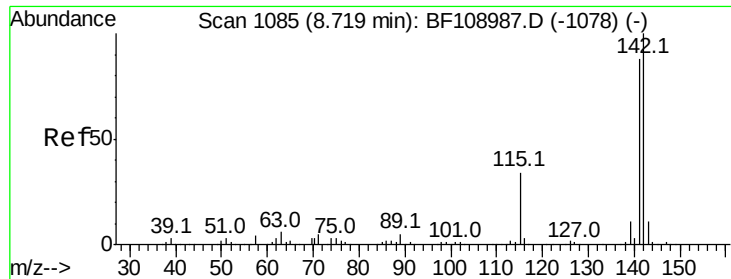
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#23  
Nitrobenzene-d5  
Concen: 54.332 ng  
RT: 7.28 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.6  | 36.1 | 54.1  |       |
| 54      | 48.1  | 41.4 | 62.2  |       |





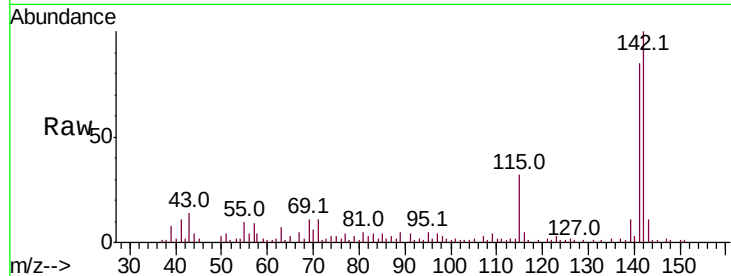
#37  
2-Methylnaphthalene  
Concen: 2.643 ng  
RT: 8.71 min Scan# 1084  
Delta R.T. -0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.6  | 70.8  | 106.2 |
| 115     | 32.4  | 26.1  | 39.1  |

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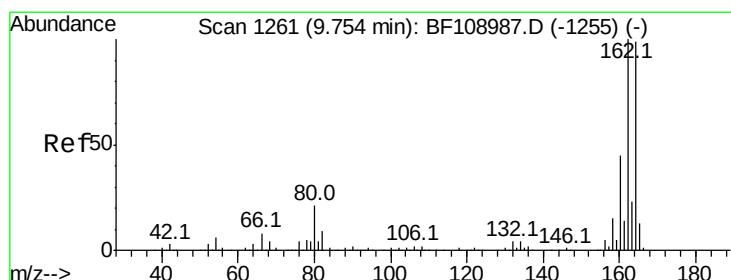
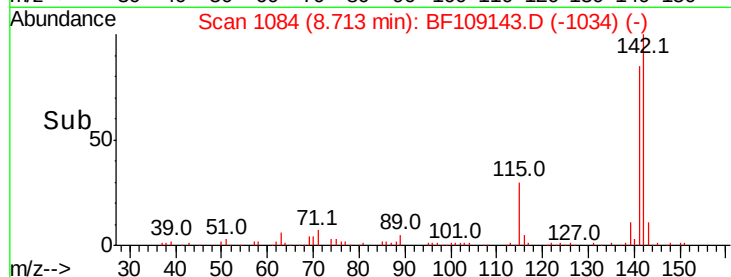
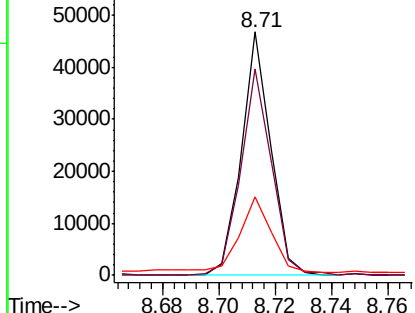


Abundance

Ion 142.00 (141.70 to 142.70): E

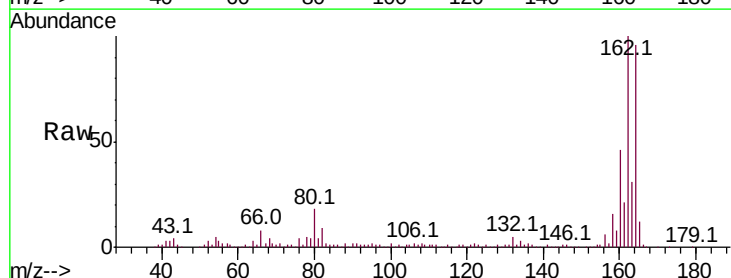
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1261  
Delta R.T. -0.00 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.3 | 86.1  | 129.1 |
| 160     | 47.5  | 38.3  | 57.5  |

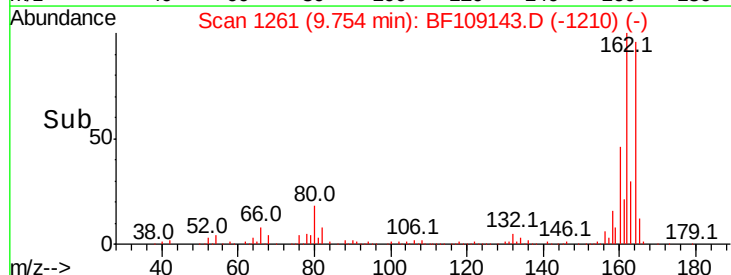
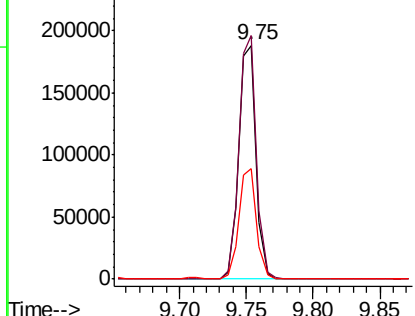


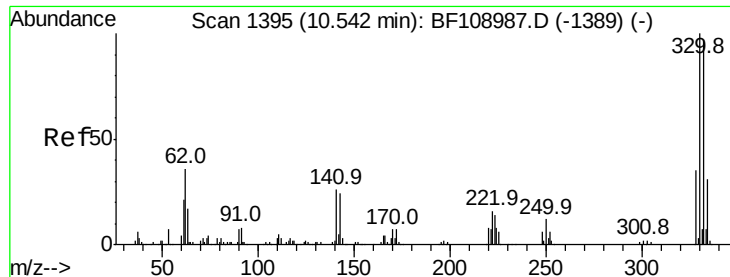
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 70.696 ng

RT: 10.54 min Scan# 1394

Delta R.T. -0.01 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

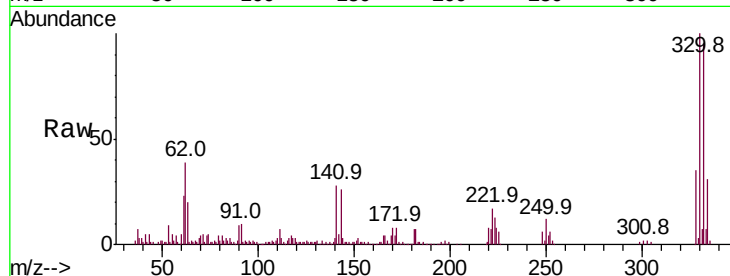
SUP-UST-091718-02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 131488 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.0  | 77.0  | 115.6  |
| 141       | 32.0  | 29.9  | 44.9   |

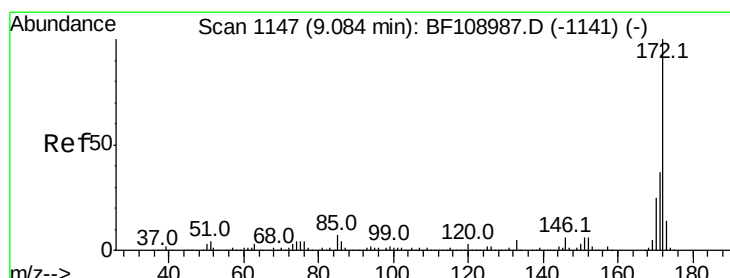
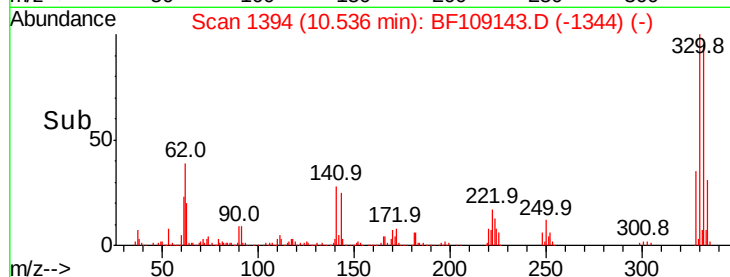
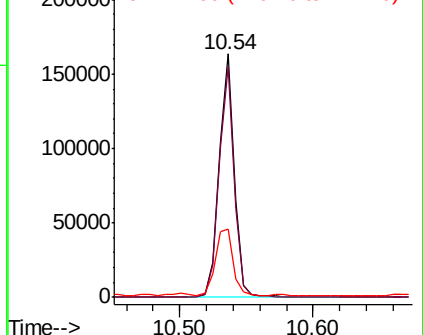
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Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 60.919 ng

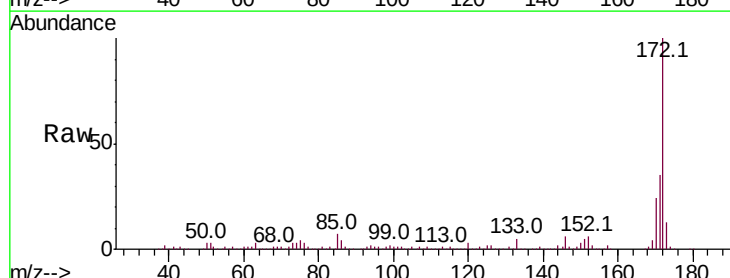
RT: 9.08 min Scan# 1146

Delta R.T. -0.01 min

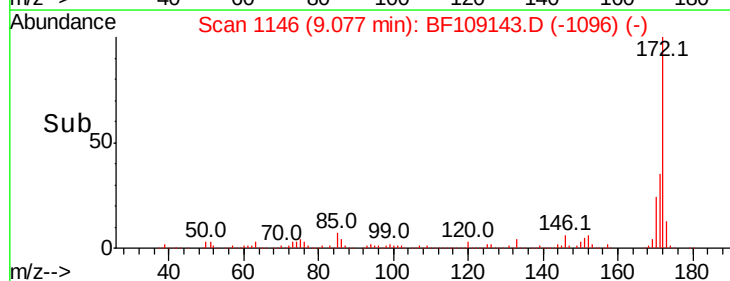
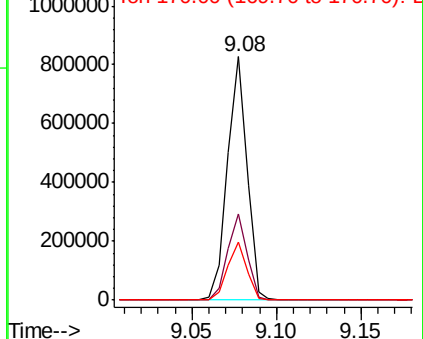
Lab File: BF109143.D

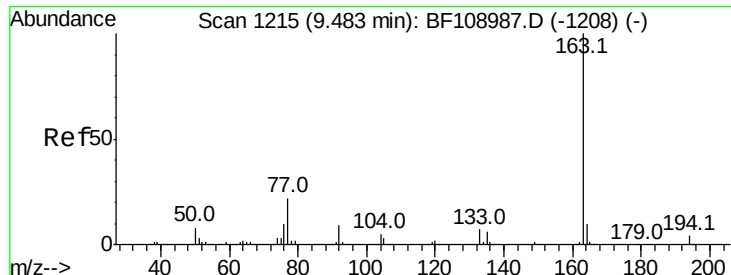
Acq: 19 Sep 2018 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 666361 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.5  | 29.7  | 44.5   |
| 170       | 24.1  | 19.6  | 29.4   |



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E





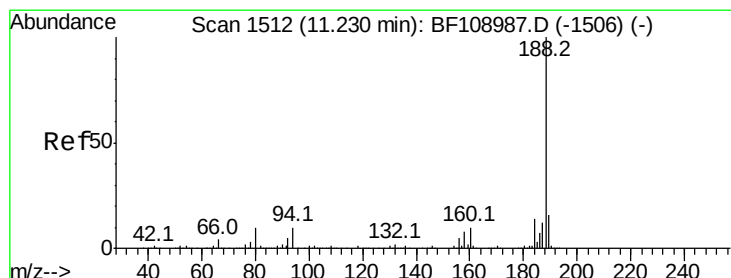
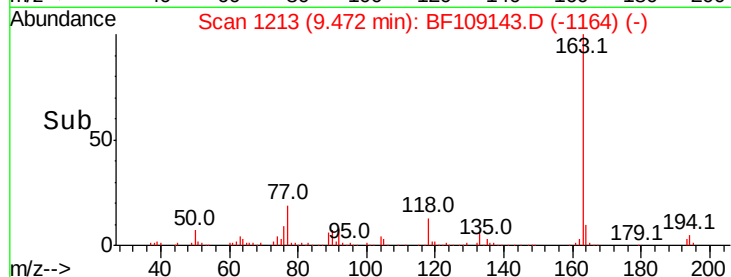
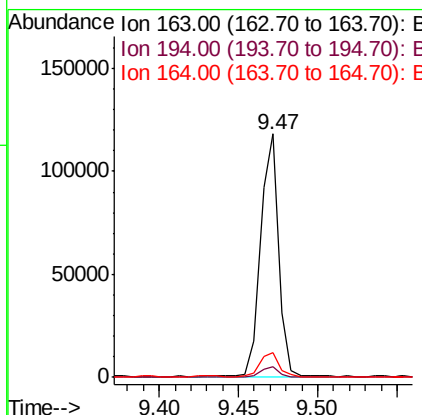
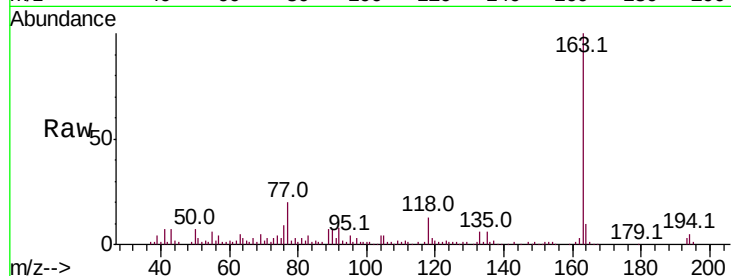
#49  
Dimethylphthalate  
Concen: 7.610 ng  
RT: 9.47 min Scan# 1213  
Delta R.T. -0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.6   | 2.7   | 4.1#  |
| 164     | 10.3  | 8.2   | 12.2  |

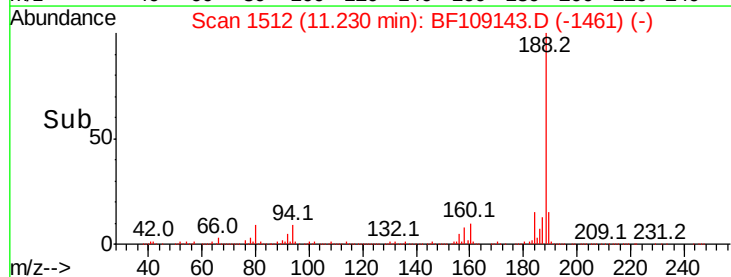
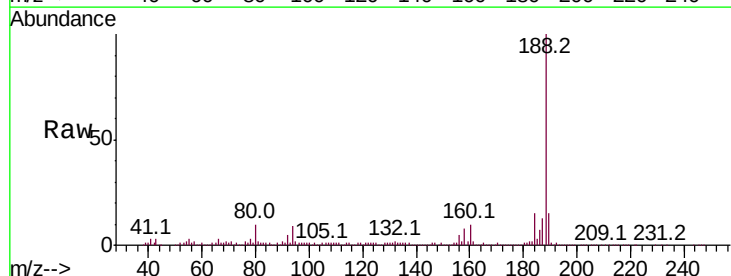
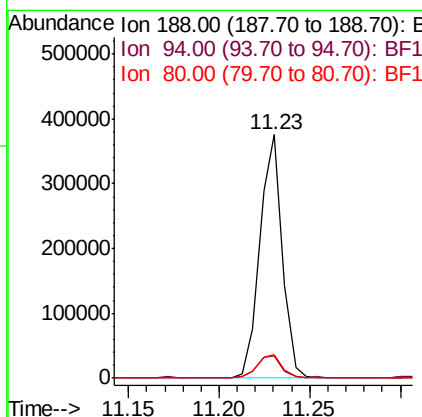
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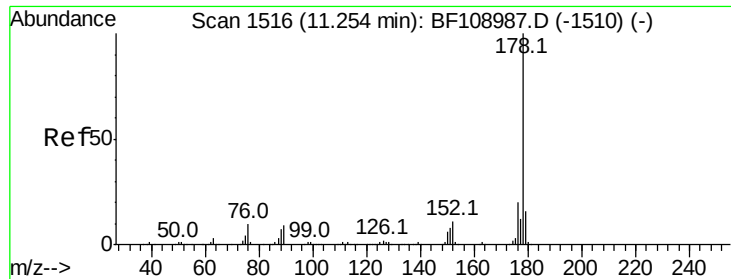


#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1512  
Delta R.T. -0.00 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.0   | 8.5   | 12.7  |
| 80      | 9.7   | 9.2   | 13.8  |







#70

Phenanthrene

Concen: 14.753 ng

RT: 11.25 min Scan# 1516

Delta R.T. -0.00 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

Instrument :

BNA\_F

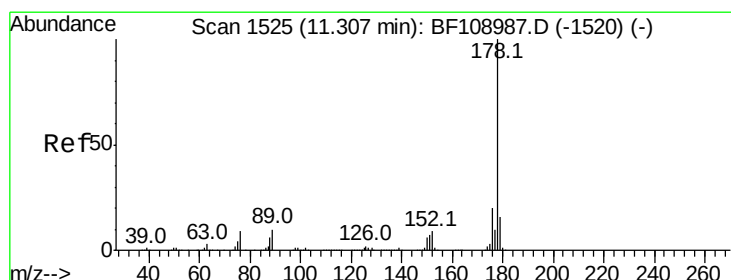
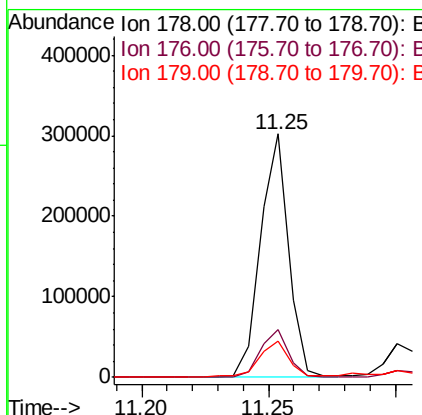
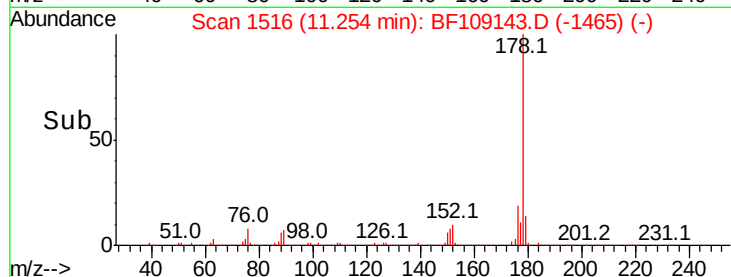
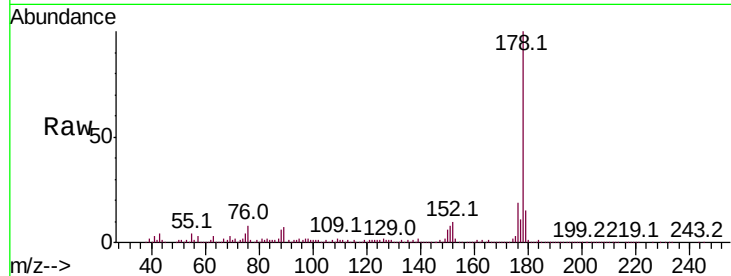
ClientSampleId :

SUP-UST-091718-02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 232498 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.4  | 15.8  | 23.8   |
| 179       | 14.9  | 13.0  | 19.6   |

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#71

Anthracene

Concen: 2.299 ng m

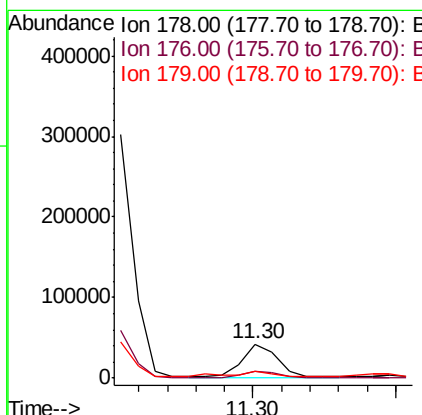
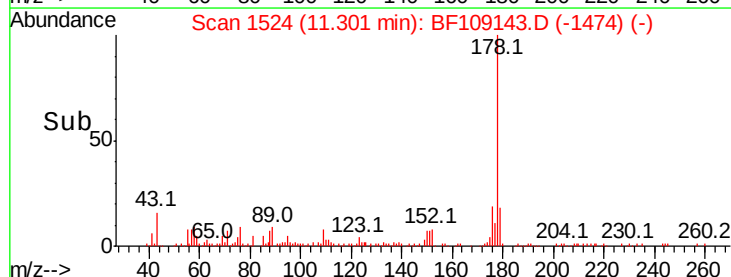
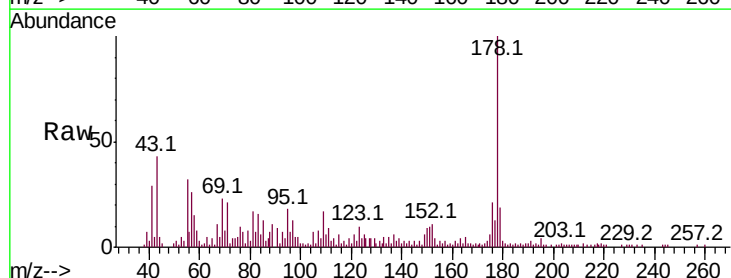
RT: 11.30 min Scan# 1524

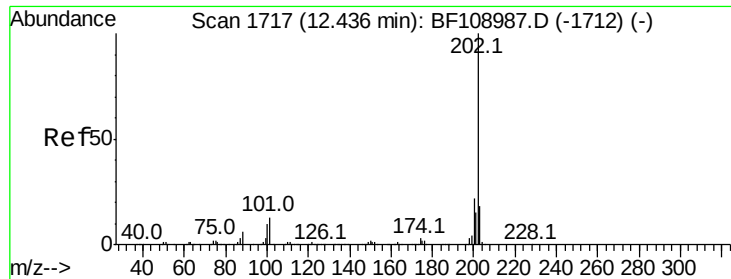
Delta R.T. -0.01 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 36734 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.6  | 15.4  | 23.2  |
| 179       | 19.3  | 12.6  | 19.0# |





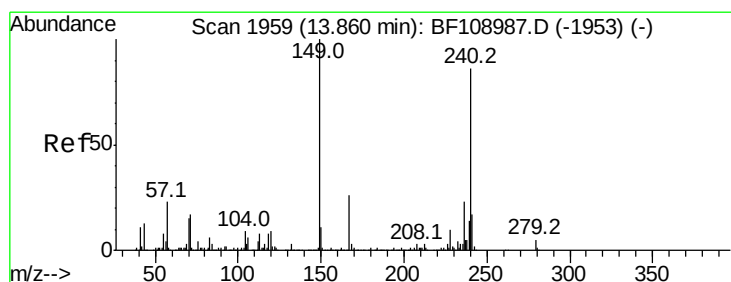
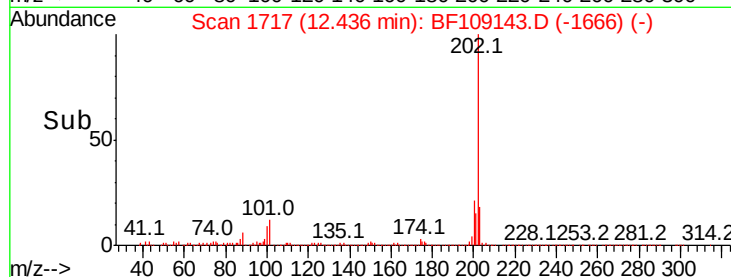
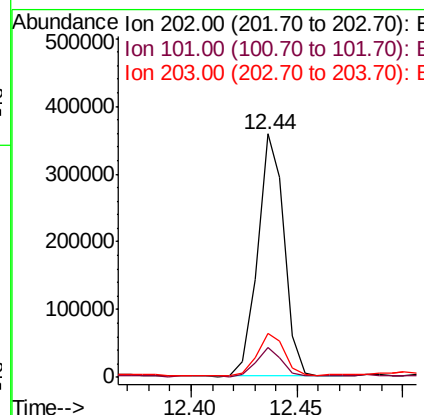
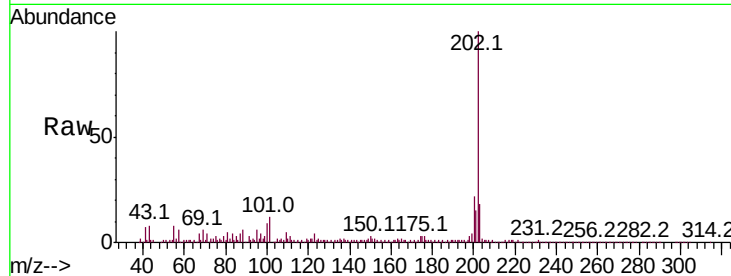
#74  
Fluoranthene  
Concen: 18.652 ng  
RT: 12.44 min Scan# 1717  
Delta R.T. -0.00 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 12.2  | 0.0  | 34.1  |       |
| 203     | 18.3  | 0.0  | 38.1  |       |

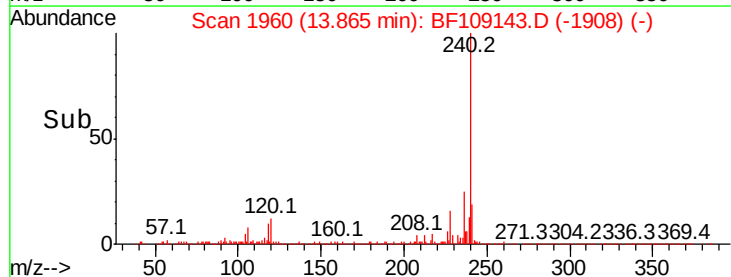
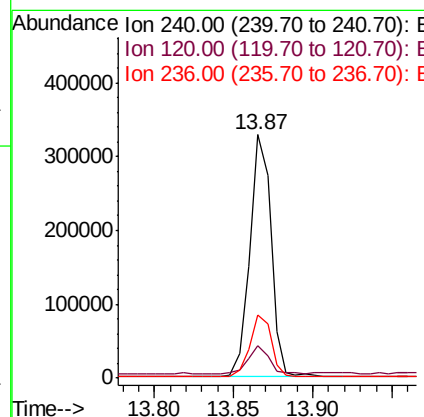
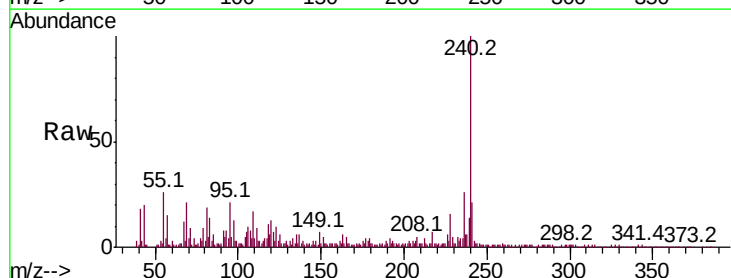
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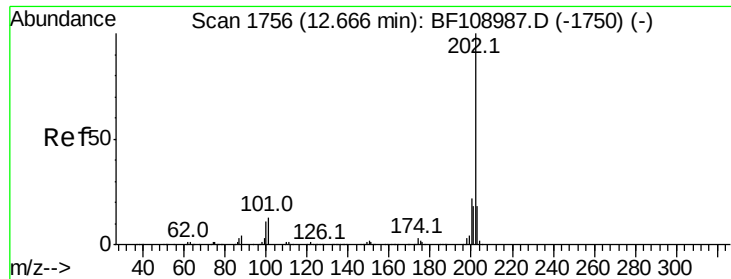
Sohil  
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#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.87 min Scan# 1960  
Delta R.T. 0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 13.2  | 9.5  | 14.3  |       |
| 236     | 26.0  | 20.7 | 31.1  |       |





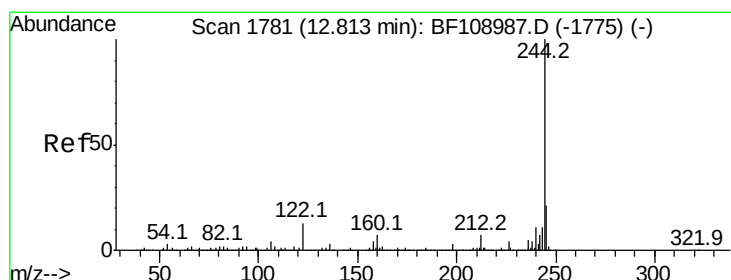
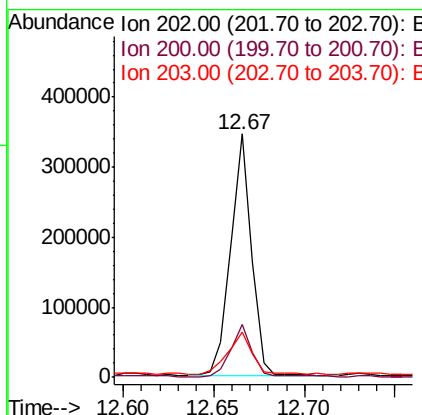
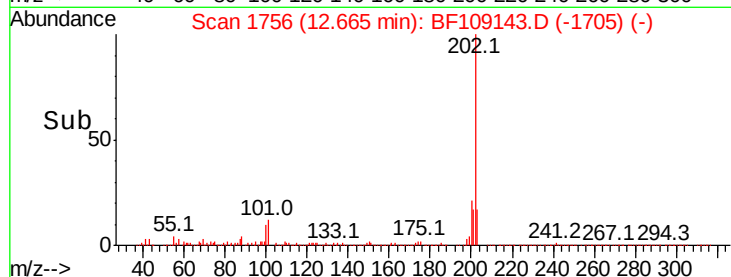
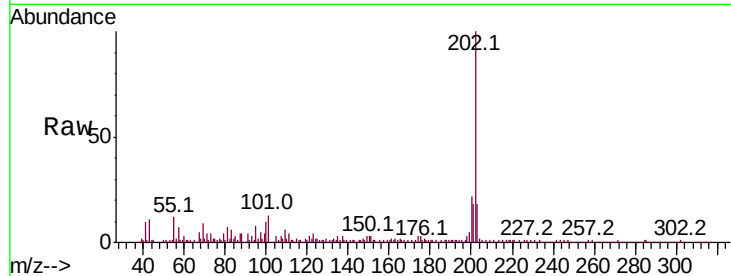
#77  
Pvrene  
Concen: 12.261 ng  
RT: 12.67 min Scan# 1756  
Delta R.T. -0.00 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.5  | 17.4  | 26.2  |
| 203     | 18.4  | 14.3  | 21.5  |

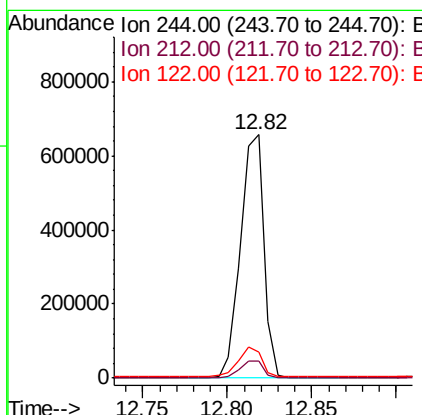
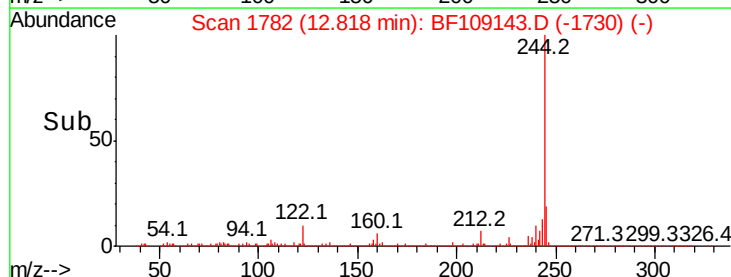
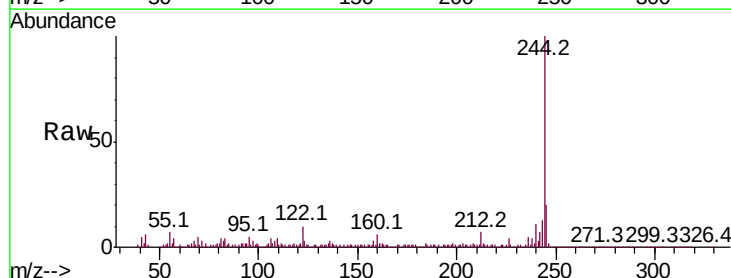
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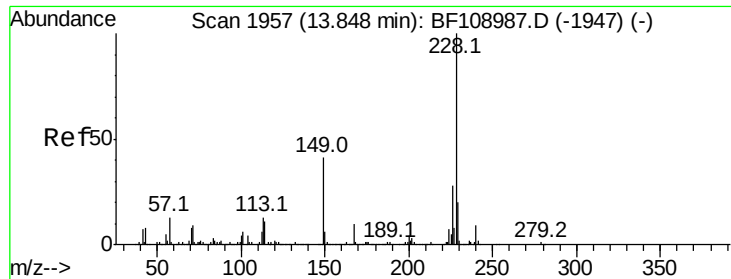
Sohil  
9/20/2018 10:06:34 AM



#78  
Terphenyl-d14  
Concen: 49.524 ng  
RT: 12.82 min Scan# 1782  
Delta R.T. 0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.4   | 8.0   |
| 122     | 10.5  | 11.0  | 16.4  |





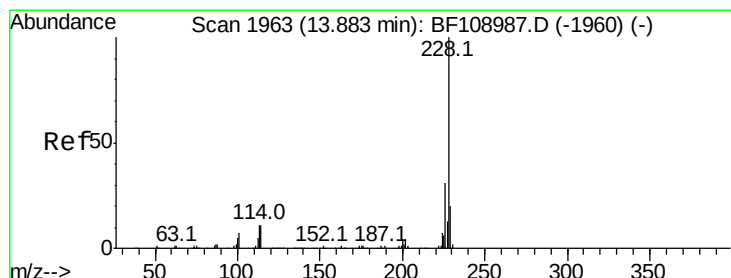
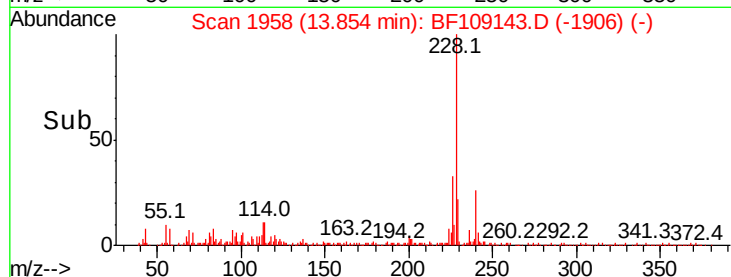
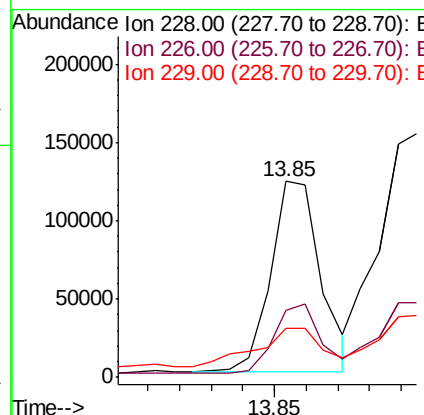
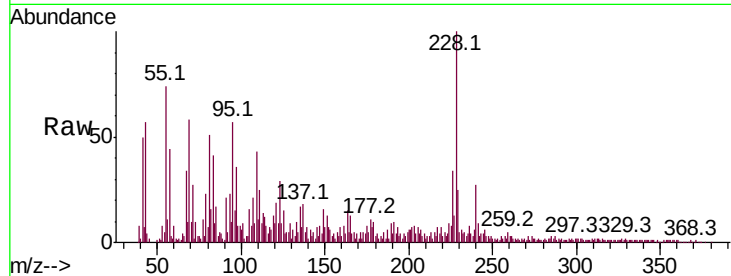
#80  
Benzo(a)anthracene  
Concen: 7.279 ng  
RT: 13.85 min Scan# 1958  
Delta R.T. 0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 34.3  | 22.6 | 33.8# |       |
| 229     | 25.3  | 15.8 | 23.6# |       |

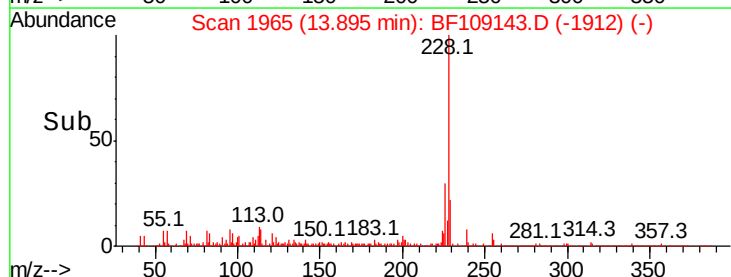
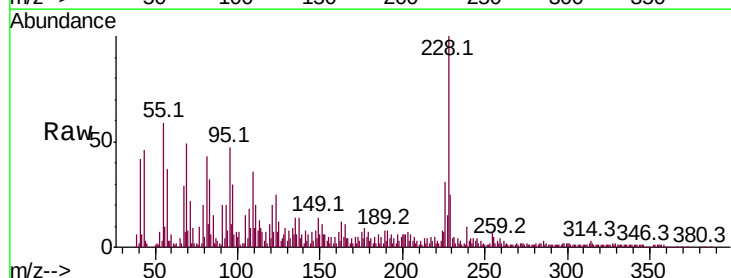
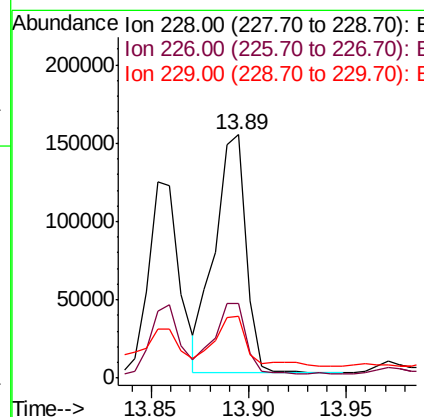
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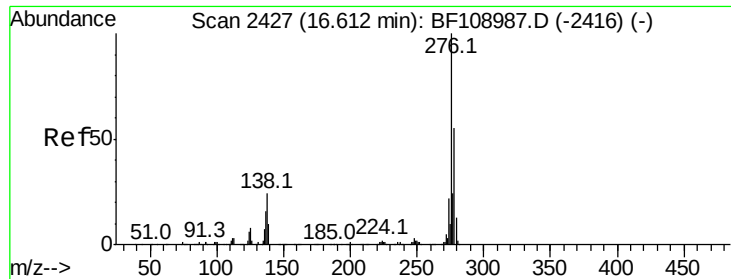
Sohil  
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#82  
Chrysene  
Concen: 9.251 ng  
RT: 13.89 min Scan# 1965  
Delta R.T. 0.01 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 30.5  | 25.0 | 37.6  |       |
| 229     | 25.2  | 16.2 | 24.4# |       |





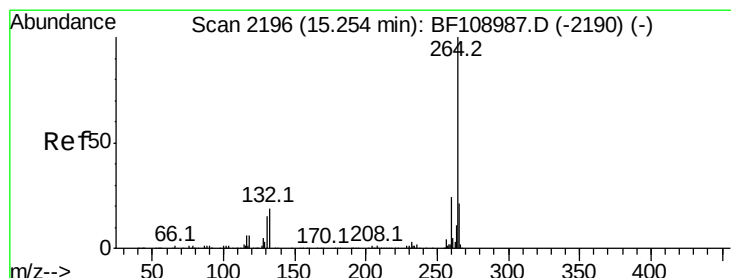
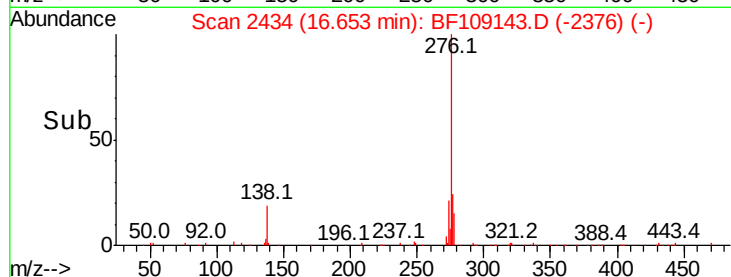
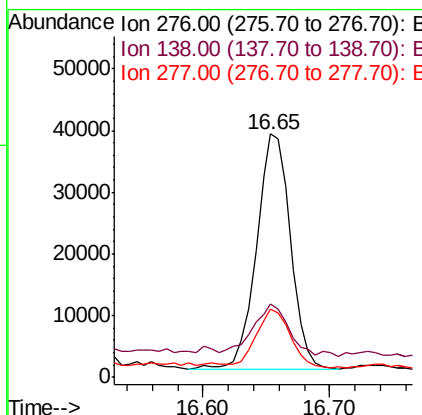
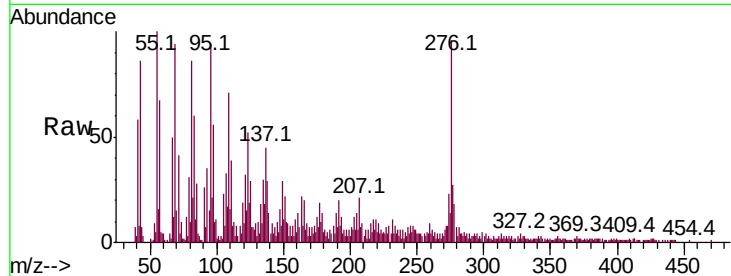
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.794 ng  
RT: 16.65 min Scan# 2434  
Delta R.T. 0.04 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.5  | 25.0  | 37.6# |
| 277     | 25.1  | 20.1  | 30.1  |

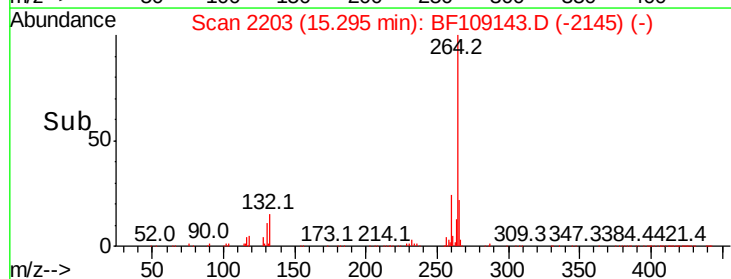
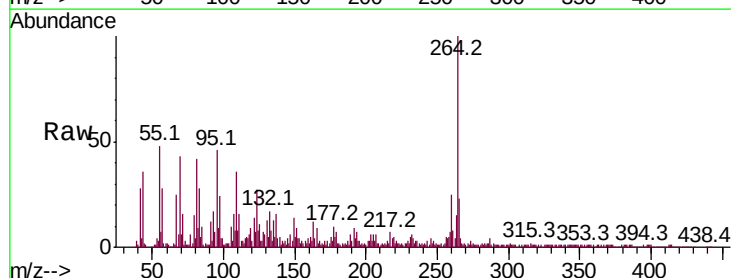
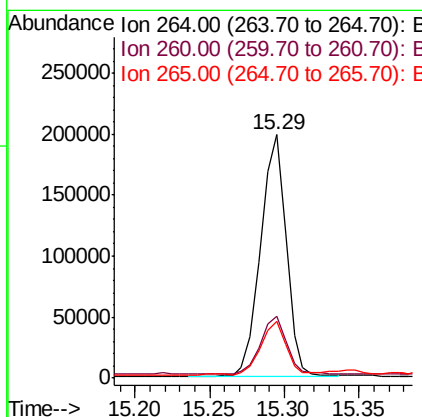
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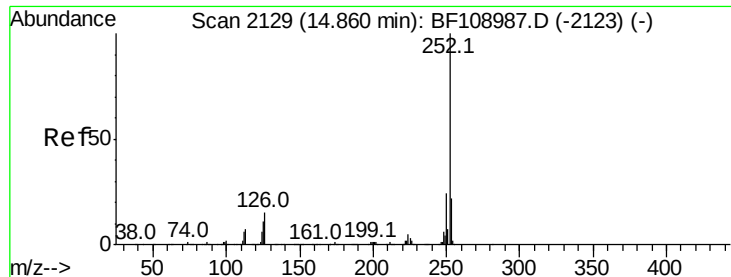
Sohil  
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.29 min Scan# 2203  
Delta R.T. 0.04 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.4  | 19.2  | 28.8  |
| 265     | 23.2  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 15.892 ng m

RT: 14.89 min Scan# 2134

Delta R.T. 0.03 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

Instrument :

BNA\_F

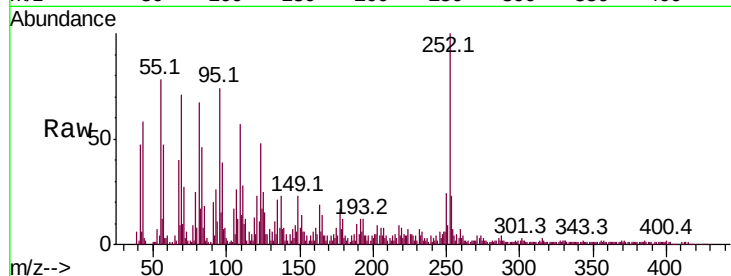
ClientSampleId :

SUP-UST-091718-02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 205380 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 17.0  | 25.6   |
| 125       | 25.4  | 9.0   | 13.6#  |

Manual Integrations  
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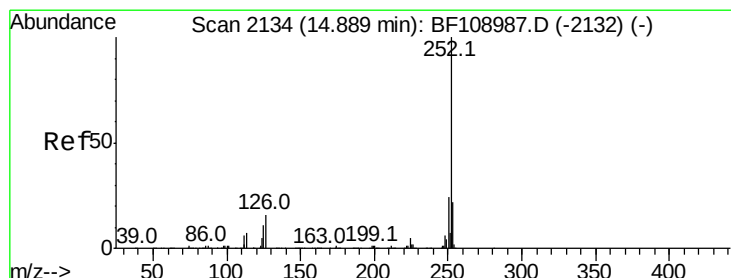
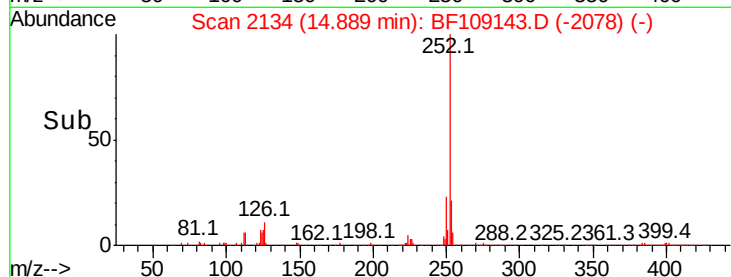
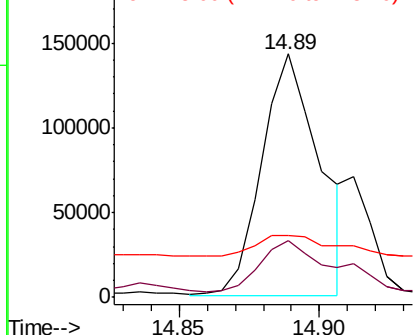


Abundance

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



#88

Benzo(k)fluoranthene

Concen: 3.961 ng m

RT: 14.91 min Scan# 2138

Delta R.T. 0.02 min

Lab File: BF109143.D

Acq: 19 Sep 2018 15:08

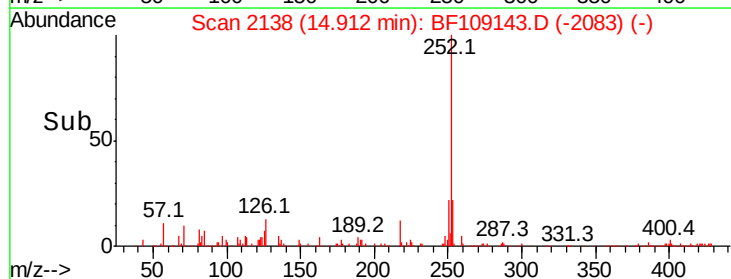
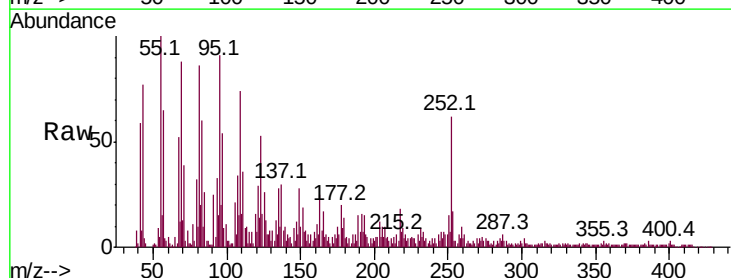
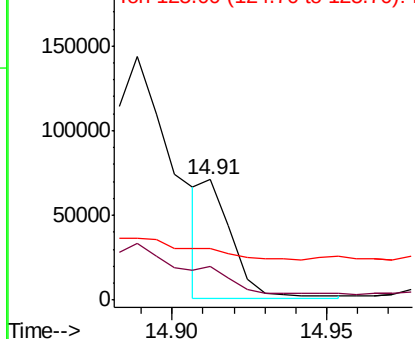
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 47808 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.1  | 17.9  | 26.9# |
| 125       | 42.4  | 10.2  | 15.2# |

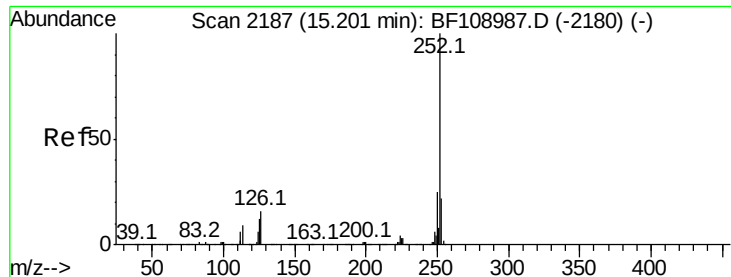
Abundance

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





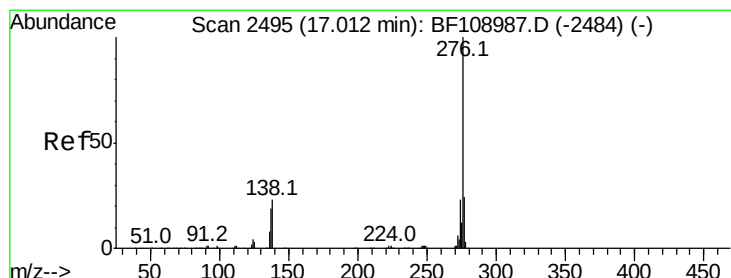
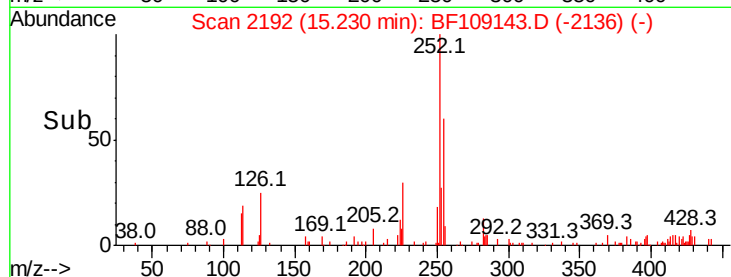
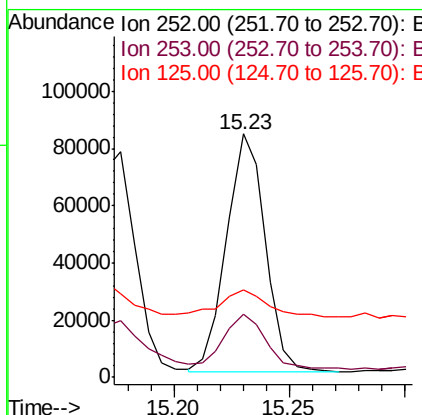
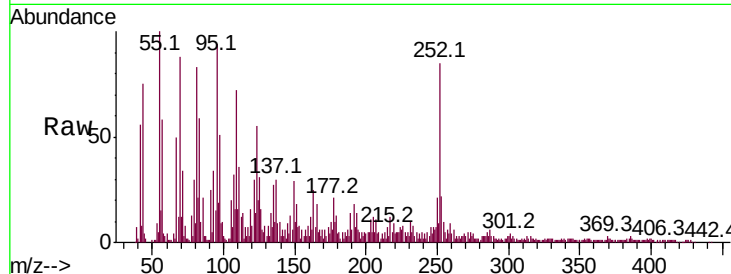
#89  
Benzo(a)pyrene  
Concen: 8.565 ng  
RT: 15.23 min Scan# 2192  
Delta R.T. 0.03 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-UST-091718-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.1  | 17.1  | 25.7# |
| 125     | 36.1  | 9.8   | 14.6# |

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#91  
Benzo(g,h,i)perylene  
Concen: 7.164 ng  
RT: 17.07 min Scan# 2504  
Delta R.T. 0.05 min  
Lab File: BF109143.D  
Acq: 19 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.1  | 17.9  | 26.9# |
| 138     | 28.4  | 21.8  | 32.8  |

