

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101617\  
 Data File : BF099570.D  
 Acq On : 17 Oct 2017 3:19  
 Operator : SJ/JU  
 Sample : I5821-01RE 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPSB-5A-2-BGSRE

Manual Integrations  
 APPROVED

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 10/17/2017 5:02:09 PM

Quant Time: Oct 17 04:32:19 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 11 16:25:21 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 111120   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 8.13  | 136  | 446087   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10        | 9.88  | 164  | 188396   | 20.00  | ng    | -0.01     |
| 63) Phenanthrene-d10        | 11.37 | 188  | 281793   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12            | 14.02 | 240  | 192216   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12            | 15.49 | 264  | 206142   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.46  | 112  | 428682   | 61.41  | ng    | 0.00      |
| 7) Phenol-d6                | 6.47  | 99   | 513564   | 59.64  | ng    | -0.01     |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 298484   | 42.91  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 88147    | 57.18  | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 592932   | 52.54  | ng    | -0.01     |
| 78) Terphenyl-d14           | 12.95 | 244  | 360164   | 42.61  | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 10) Phenol                  | 6.49  | 94   | 28338    | 2.943  | ng    | Qvalue 90 |
| 49) Dimethylphthalate       | 9.59  | 163  | 99215    | 6.978  | ng    | 99        |
| 57) Fluorene                | 10.43 | 166  | 25645    | 2.033  | ng    | 96        |
| 70) Phenanthrene            | 11.39 | 178  | 398835   | 26.442 | ng    | 99        |
| 71) Anthracene              | 11.45 | 178  | 85303    | 5.527  | ng    | 98        |
| 72) Carbazole               | 11.60 | 167  | 35142    | 2.325  | ng    | 98        |
| 74) Fluoranthene            | 12.59 | 202  | 440323   | 28.829 | ng    | 99        |
| 77) Pyrene                  | 12.82 | 202  | 402049   | 27.430 | ng    | 99        |
| 80) Benzo(a)anthracene      | 14.00 | 228  | 194489   | 16.710 | ng    | 99        |
| 82) Chrysene                | 14.04 | 228  | 165361   | 14.923 | ng    | 98        |
| 85) Indeno(1,2,3-cd)pyrene  | 16.97 | 276  | 84101    | 9.488  | ng    | 98        |
| 87) Benzo(b)fluoranthene    | 15.06 | 252  | 218899m  | 17.271 | ng    |           |
| 88) Benzo(k)fluoranthene    | 15.08 | 252  | 79038m   | 6.314  | ng    |           |
| 89) Benzo(a)pyrene          | 15.43 | 252  | 167592   | 14.405 | ng    | # 95      |
| 90) Dibenzo(a,h)anthracene  | 16.97 | 278  | 21880    | 2.350  | ng    | # 72      |
| 91) Benzo(g,h,i)perylene    | 17.43 | 276  | 76725    | 8.336  | ng    | 98        |

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

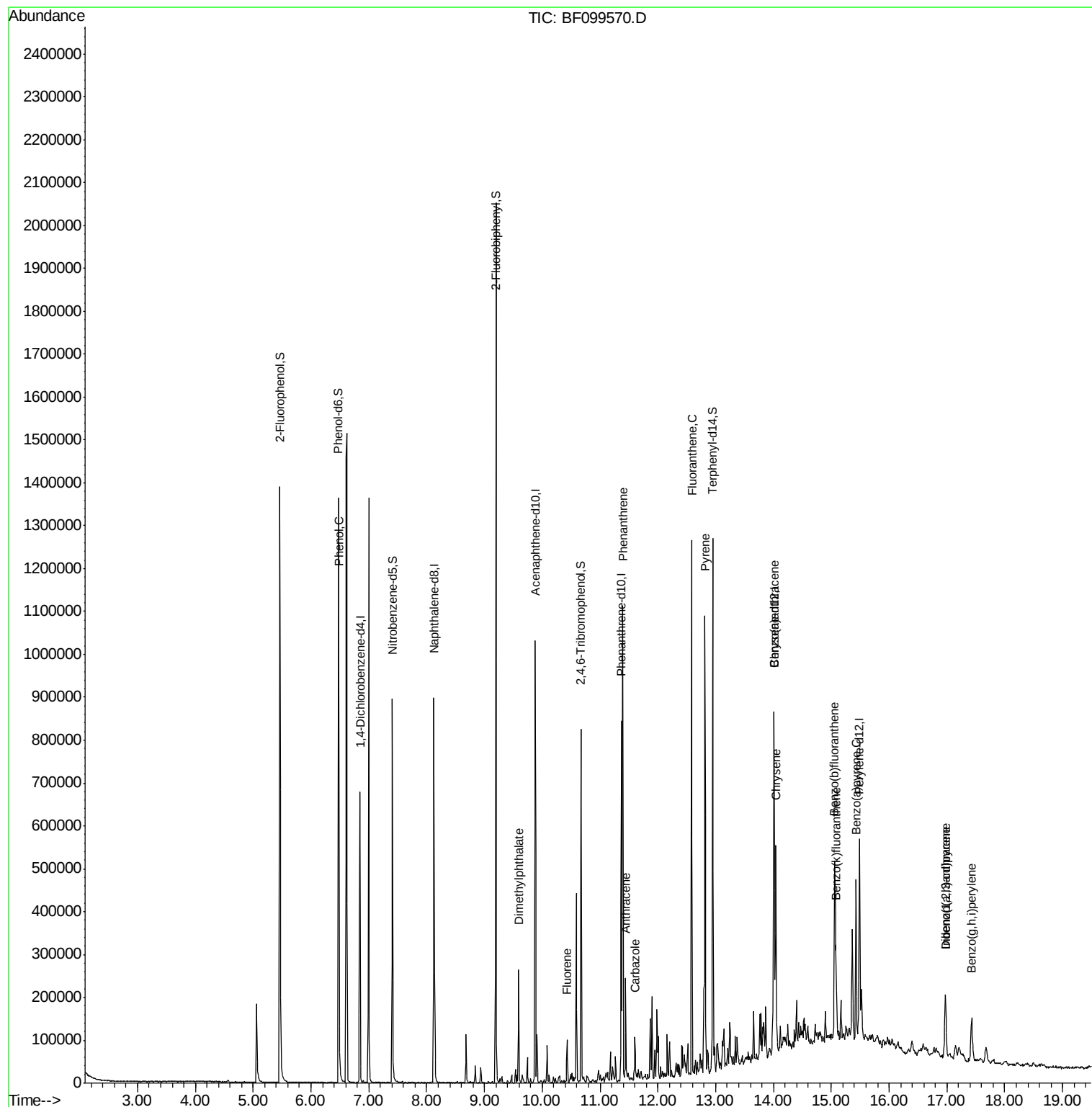
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101617\  
Data File : BF099570.D  
Acq On : 17 Oct 2017 3:19  
Operator : SJ/JU  
Sample : I5821-01RE 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

Manual Integrations  
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Quant Time: Oct 17 04:32:19 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 11 16:25:21 2017  
Response via : Initial Calibration





#1

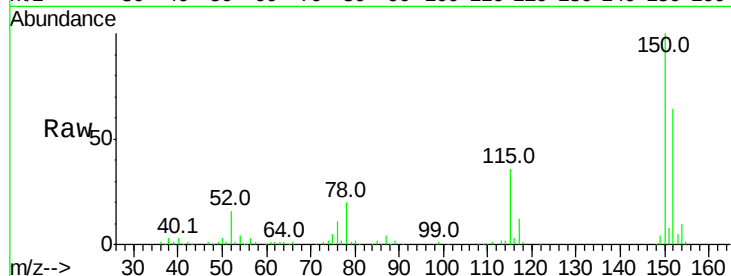
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.6 | 124.6 | 186.8 |
| 115     | 55.9  | 50.1  | 75.1  |

Manual Integrations  
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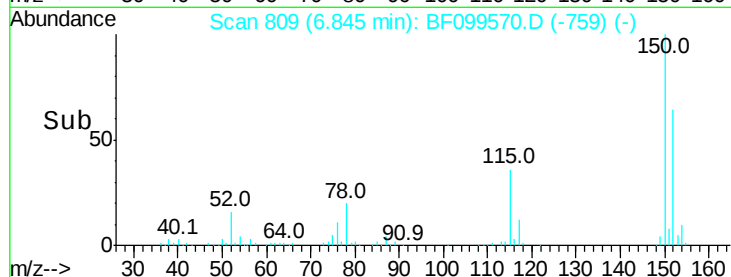
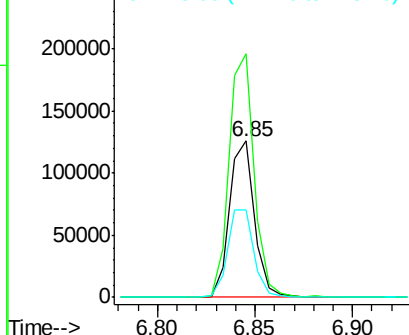


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

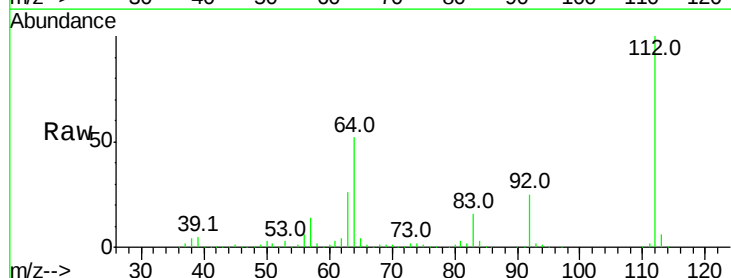
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 61.413 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.5  | 47.9  | 71.9  |
| 63      | 25.6  | 23.7  | 35.5  |

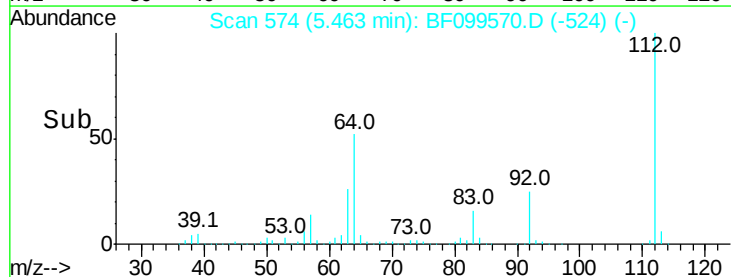
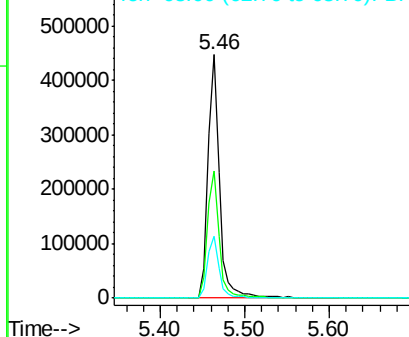


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 59.640 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

Instrument :

BNA\_F

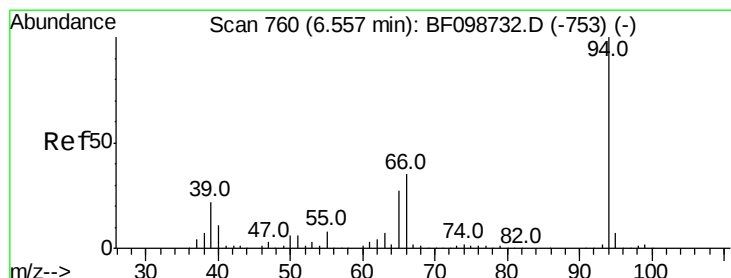
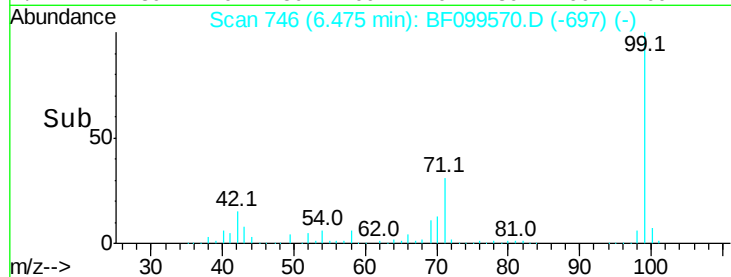
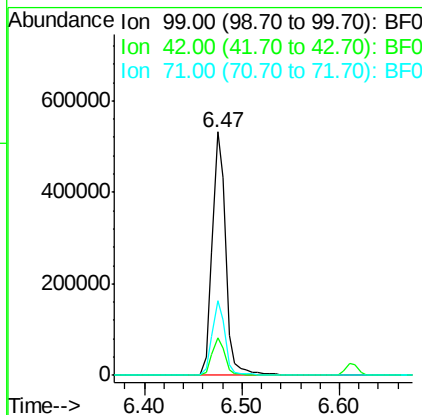
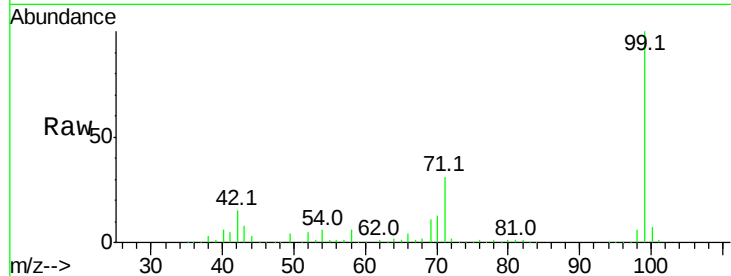
ClientSampleId :

WPSB-5A-2-BGSRE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 513564 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.4  | 14.5  | 21.7   |
| 71        | 30.8  | 25.4  | 38.0   |

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#10

Phenol

Concen: 2.943 ng

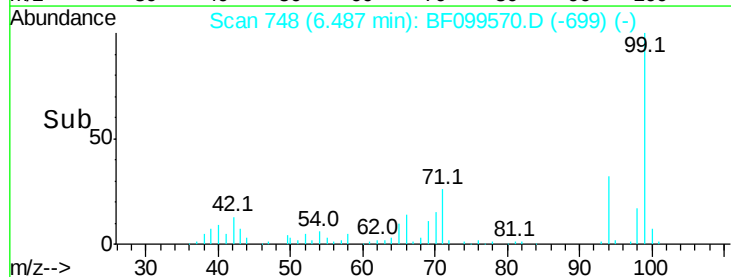
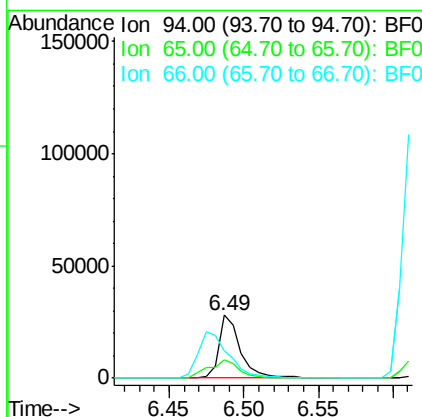
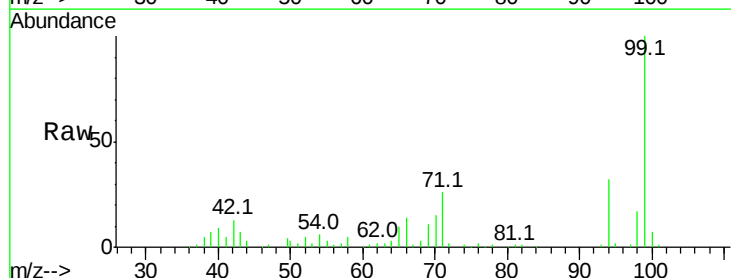
RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 28338 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 30.1  | 7.9   | 47.9  |
| 66        | 44.4  | 16.2  | 56.2  |





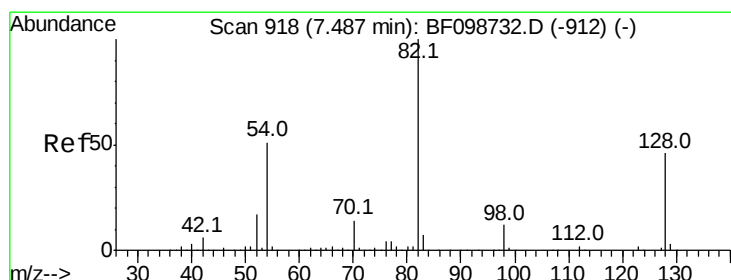
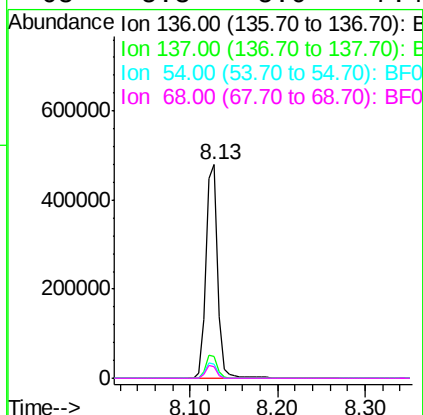
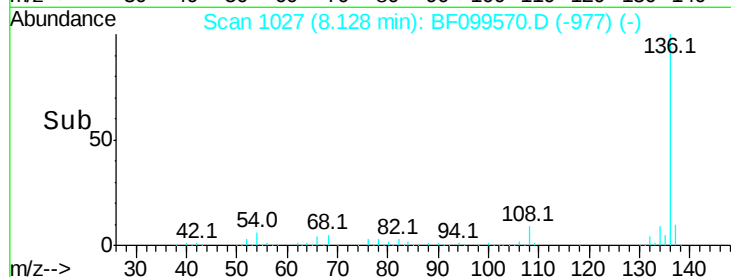
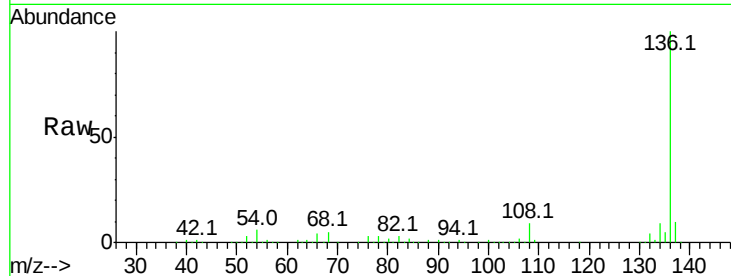
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.5  | 8.9  | 13.3  |       |
| 54      | 6.4   | 6.6  | 9.8   |       |
| 68      | 5.3   | 5.0  | 7.4   |       |

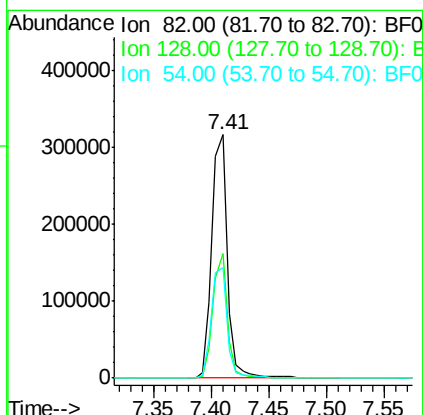
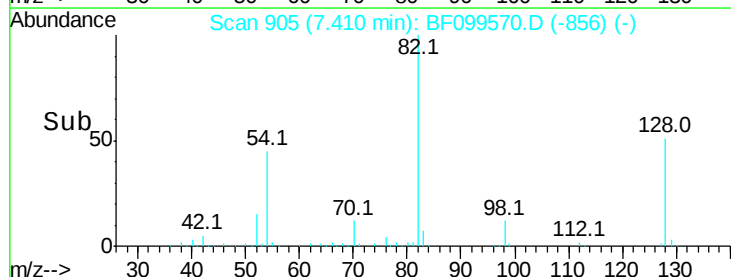
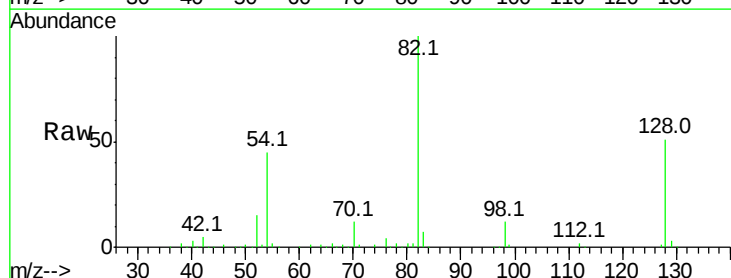
Manual Integrations  
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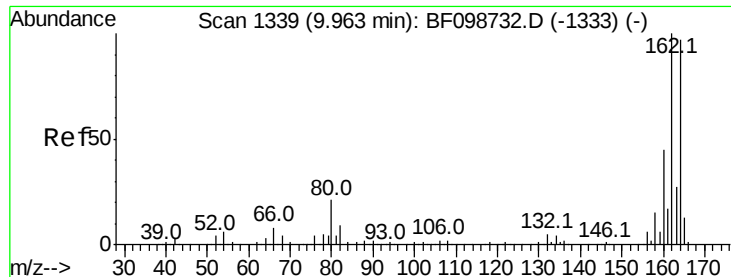
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#23  
Nitrobenzene-d5  
Concen: 42.911 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 51.3  | 36.1 | 54.1  |       |
| 54      | 45.4  | 41.4 | 62.2  |       |





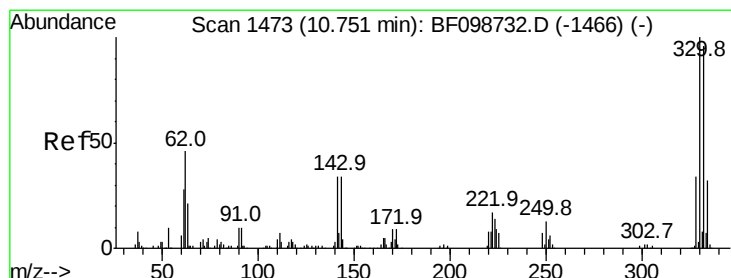
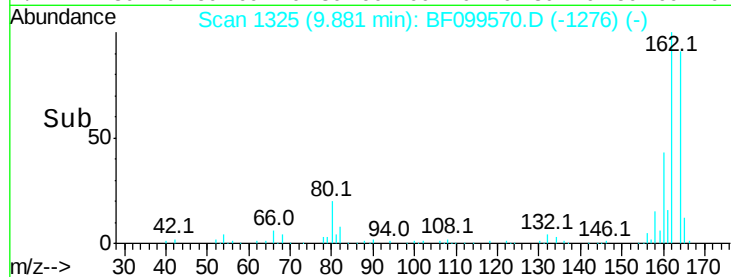
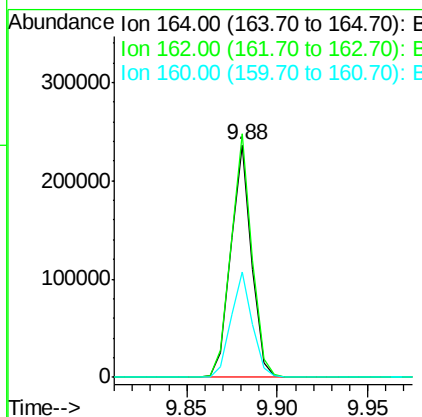
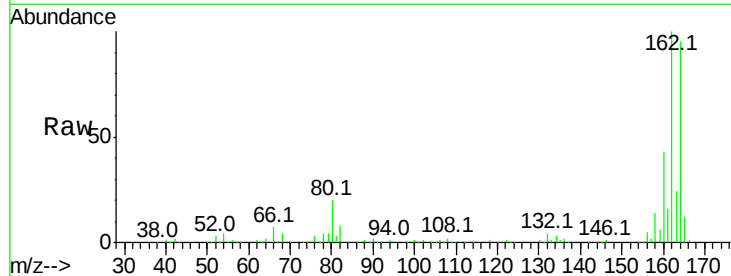
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 188396 |       |       |
| 162     | 104.9 | 86.1   | 129.1 |       |
| 160     | 45.3  | 38.3   | 57.5  |       |

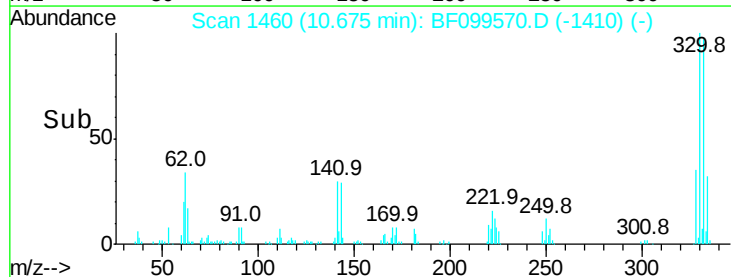
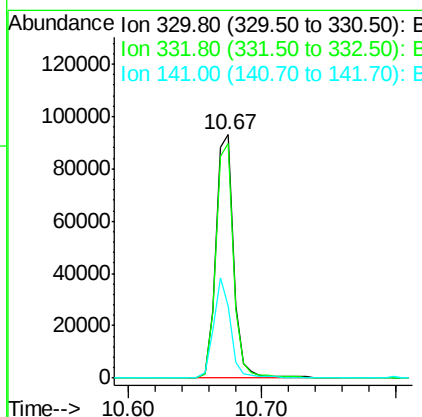
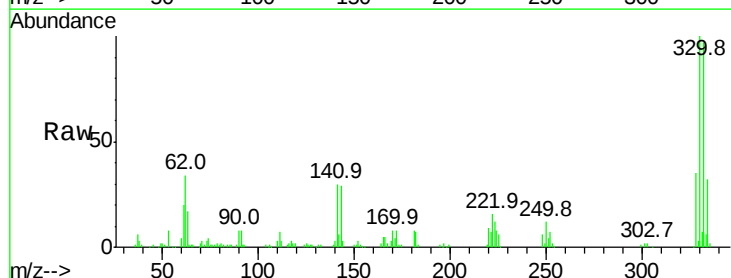
Manual Integrations  
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#41  
2,4,6-Tribromophenol  
Concen: 57.179 ng  
RT: 10.67 min Scan# 1460  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 88147 |       |       |
| 332     | 96.2  | 77.0  | 115.6 |       |
| 141     | 38.5  | 29.9  | 44.9  |       |





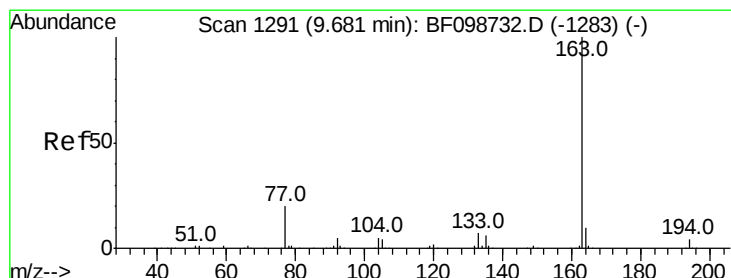
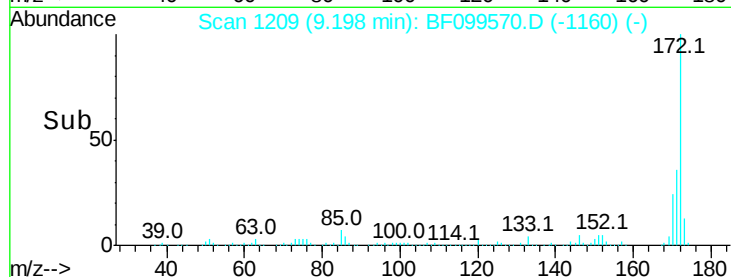
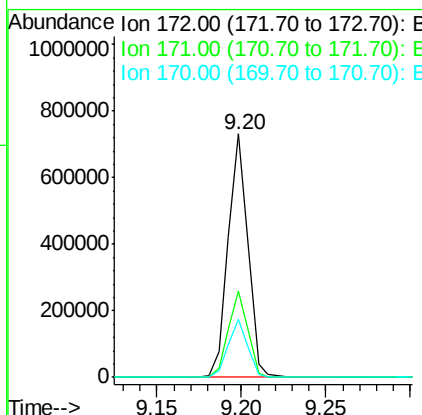
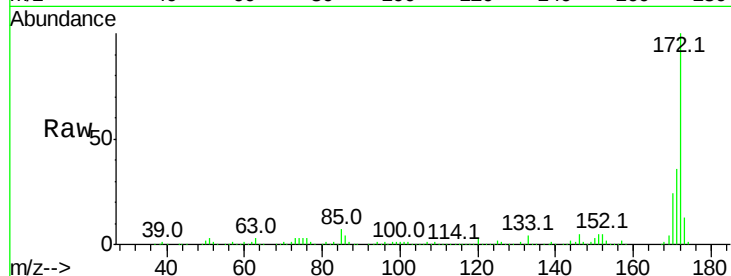
#44  
2-Fluorobiphenyl  
Concen: 52.541 ng  
RT: 9.20 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.6  | 29.7       | 44.5  |
| 170     | 23.8  | 19.6       | 29.4  |

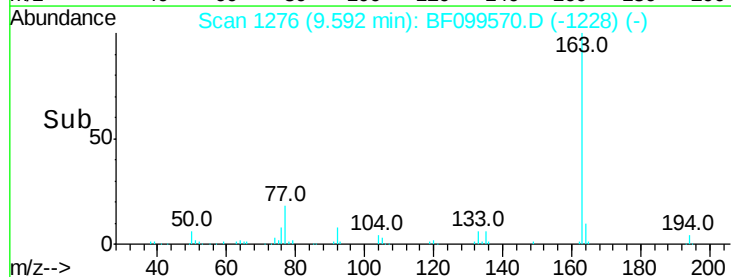
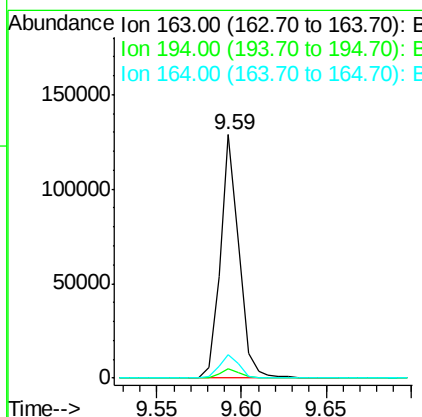
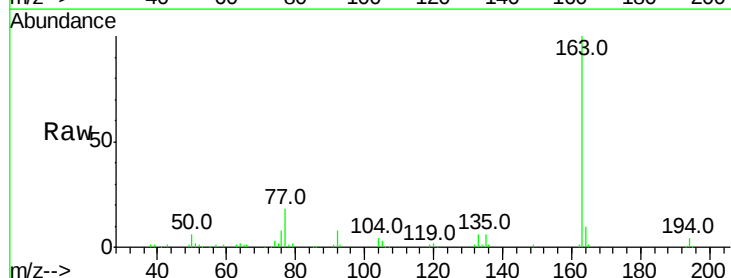
Manual Integrations  
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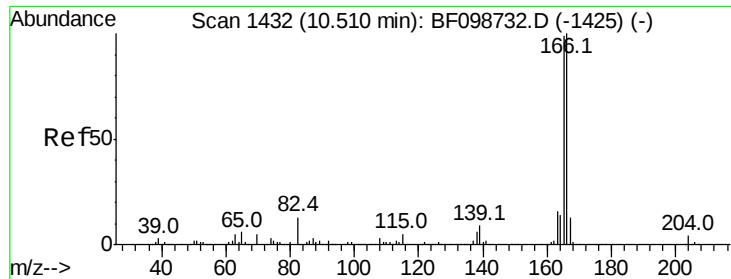
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#49  
Dimethylphthalate  
Concen: 6.978 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 3.6   | 2.7        | 4.1   |
| 164     | 9.9   | 8.2        | 12.2  |





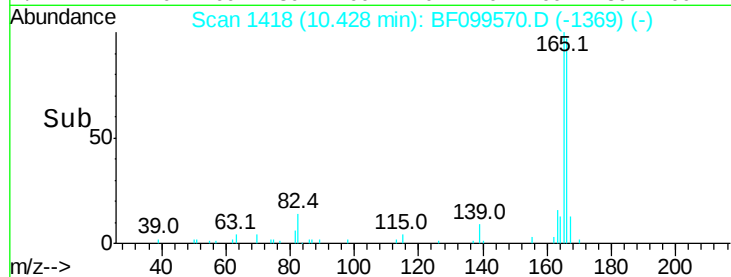
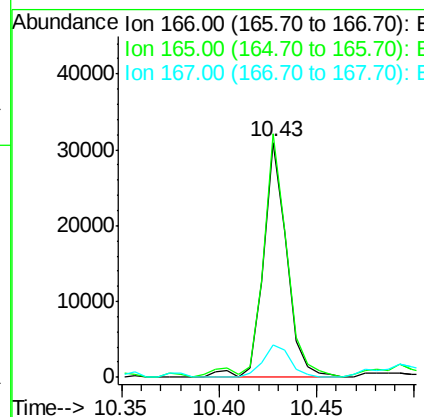
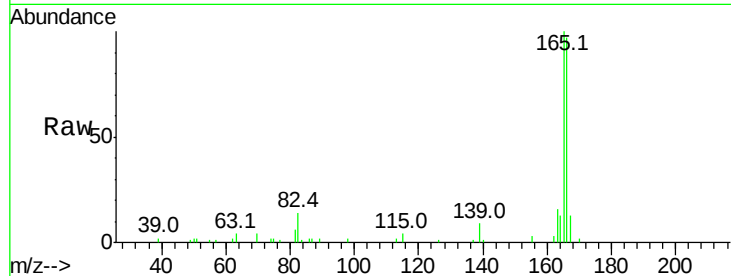
#57  
**Fluorene**  
 Concen: 2.033 ng  
 RT: 10.43 min Scan# 1418  
 Delta R.T. -0.01 min  
 Lab File: BF099570.D  
 Acq: 17 Oct 2017 3:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 103.6 | 79.8  | 119.8 |
| 167     | 13.9  | 10.6  | 16.0  |

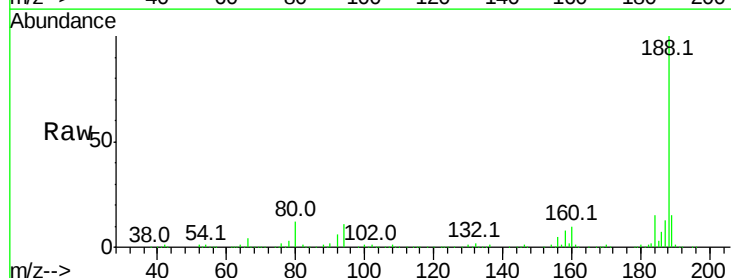
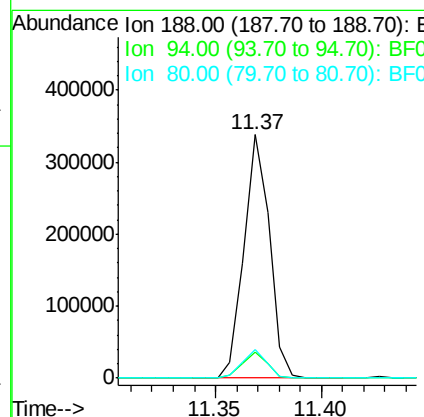
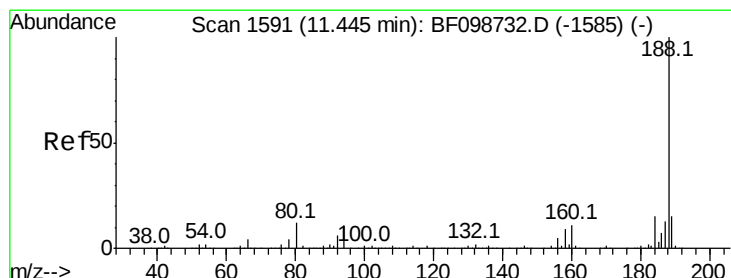
Manual Integrations  
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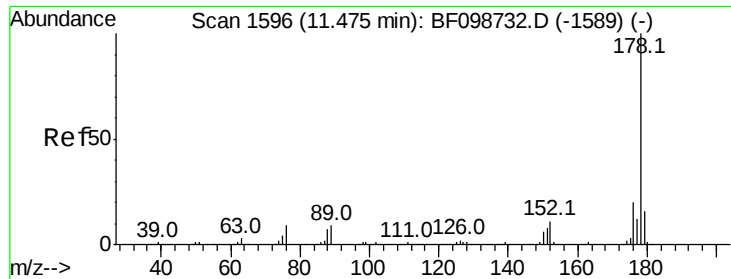
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#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.37 min Scan# 1578  
 Delta R.T. -0.01 min  
 Lab File: BF099570.D  
 Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 8.5   | 12.7  |
| 80      | 11.7  | 9.2   | 13.8  |





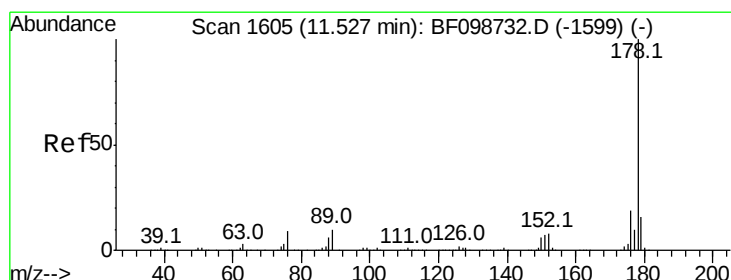
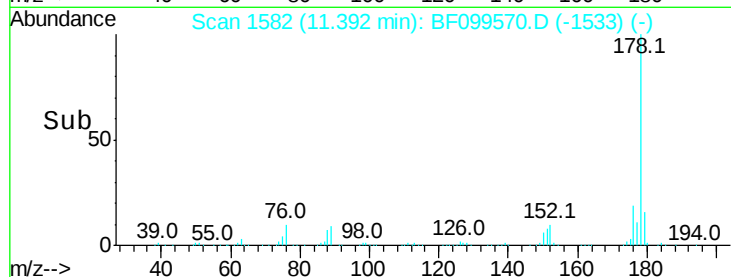
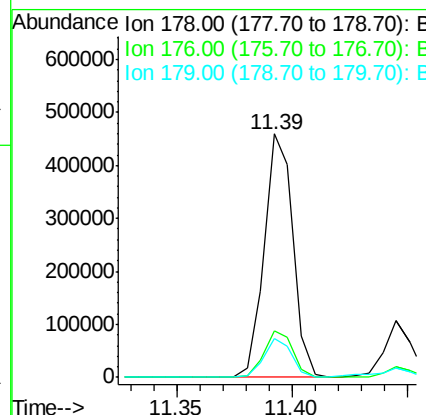
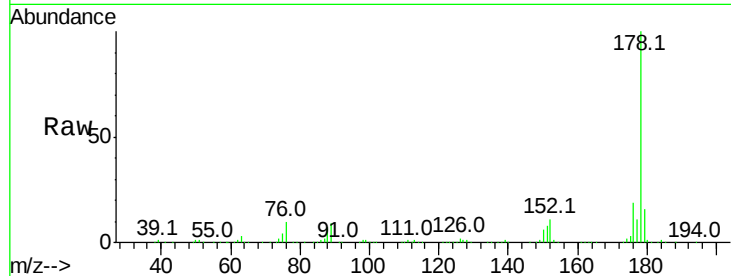
#70  
Phenanthrene  
Concen: 26.442 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.8  | 23.8  |
| 179     | 15.8  | 13.0  | 19.6  |

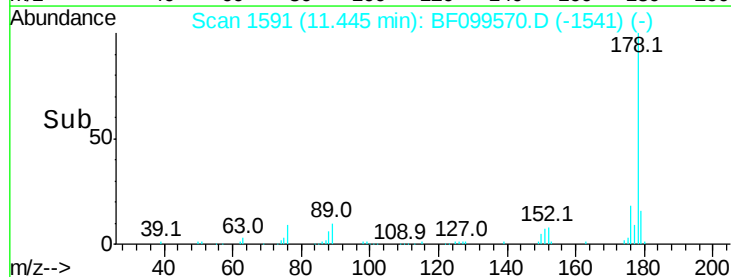
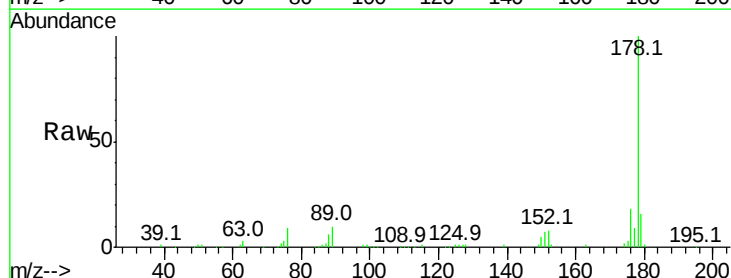
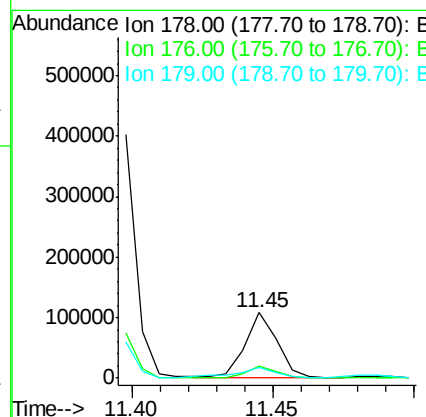
Manual Integrations  
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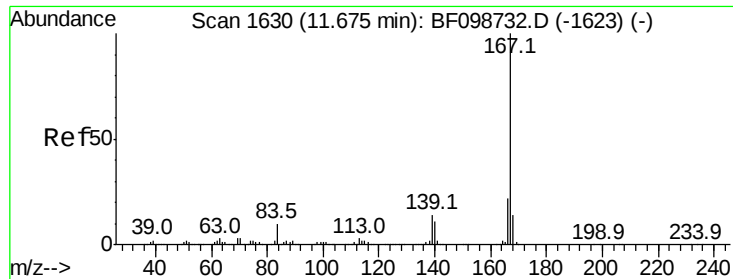
Sohil  
10/17/2017 5:02:09 PM



#71  
Anthracene  
Concen: 5.527 ng  
RT: 11.45 min Scan# 1591  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.0  | 15.4  | 23.2  |
| 179     | 16.0  | 12.6  | 19.0  |





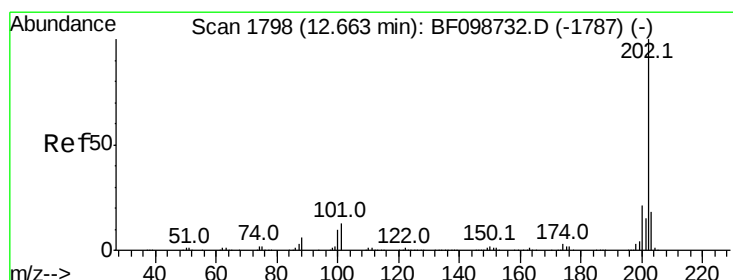
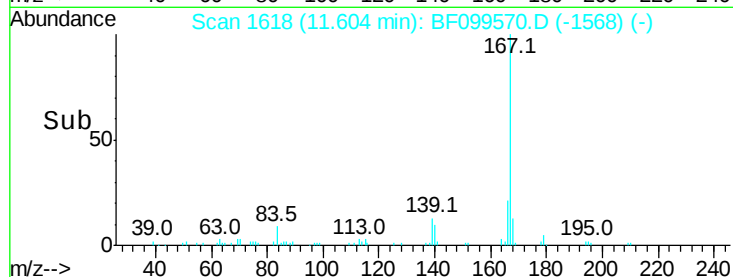
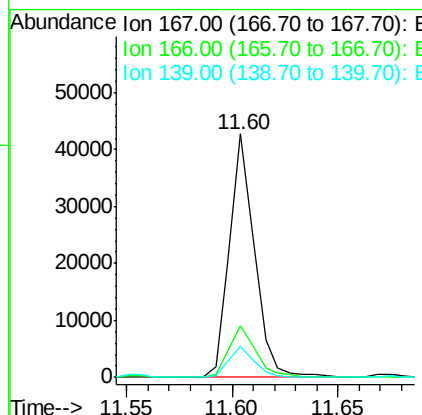
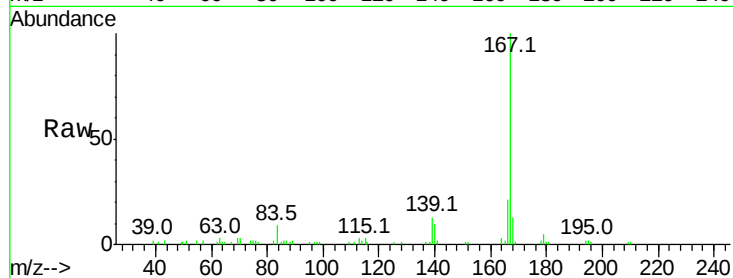
#72  
 Carbazole  
 Concen: 2.325 ng  
 RT: 11.60 min Scan# 1618  
 Delta R.T. -0.01 min  
 Lab File: BF099570.D  
 Acq: 17 Oct 2017 3:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.1  | 17.6  | 26.4  |
| 139     | 12.6  | 10.9  | 16.3  |

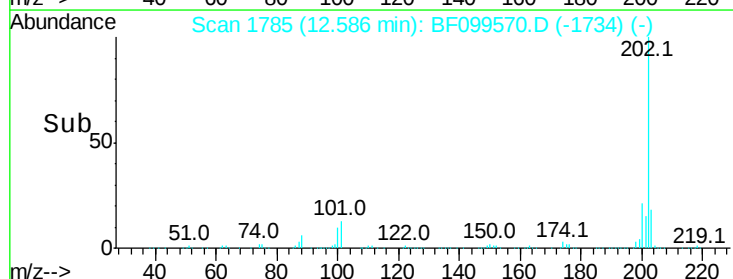
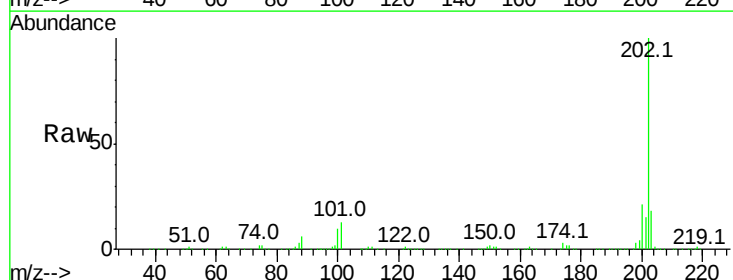
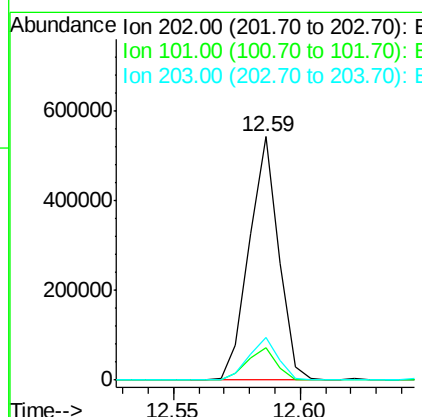
Manual Integrations  
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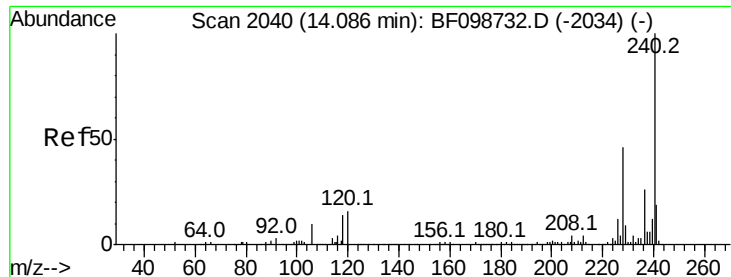
Sohil  
 10/17/2017 5:02:09 PM



#74  
 Fluoranthene  
 Concen: 28.829 ng  
 RT: 12.59 min Scan# 1785  
 Delta R.T. 0.00 min  
 Lab File: BF099570.D  
 Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.3  | 0.0   | 34.1  |
| 203     | 17.6  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

Instrument :

BNA\_F

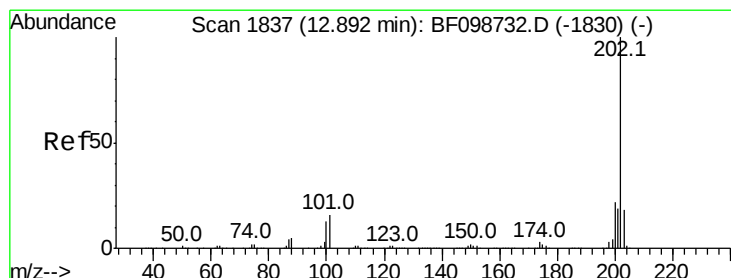
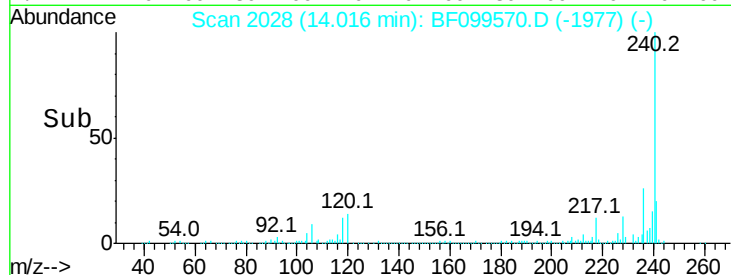
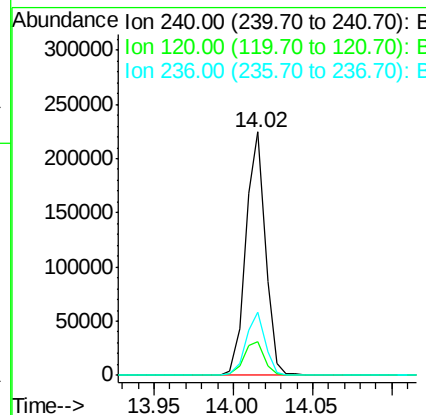
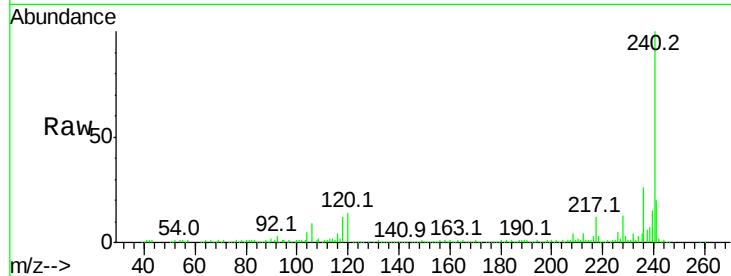
ClientSampleId :

WPSB-5A-2-BGSRE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 192216 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.9  | 9.5   | 14.3   |
| 236       | 26.0  | 20.7  | 31.1   |

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#77

Pyrene

Concen: 27.430 ng

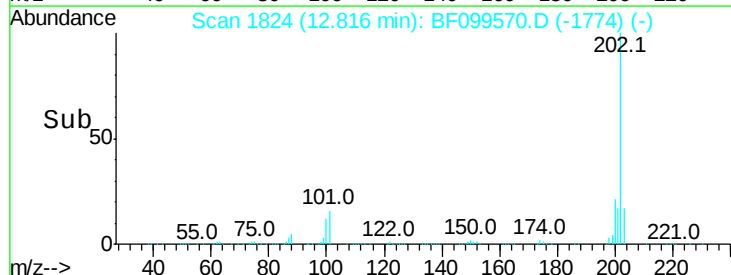
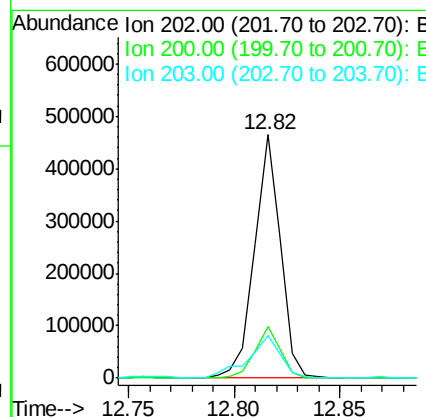
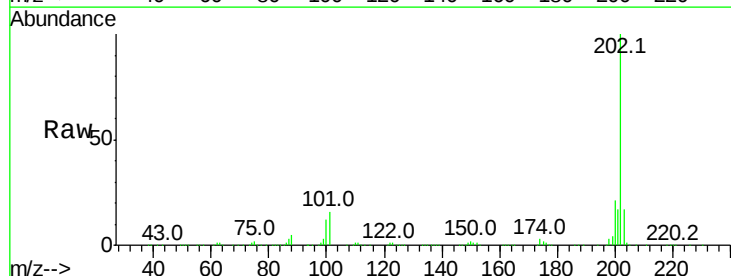
RT: 12.82 min Scan# 1824

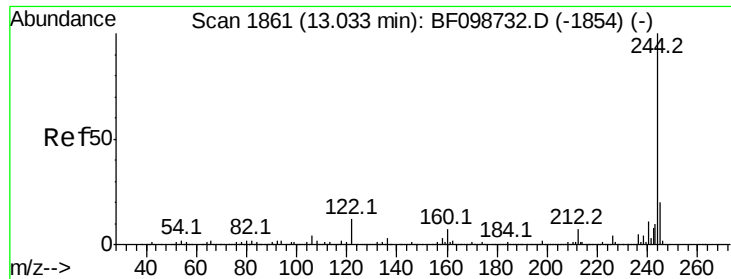
Delta R.T. -0.01 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 402049 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.3  | 17.4  | 26.2   |
| 203       | 17.3  | 14.3  | 21.5   |





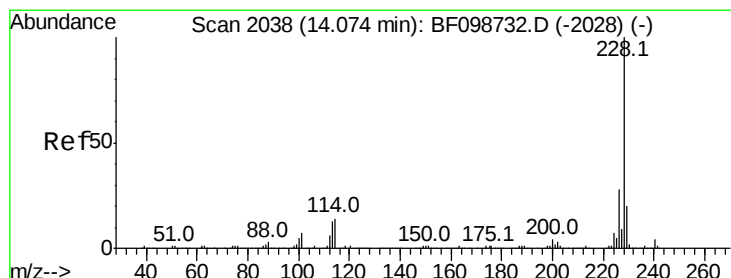
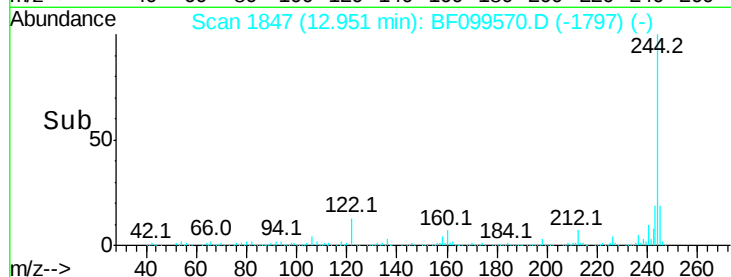
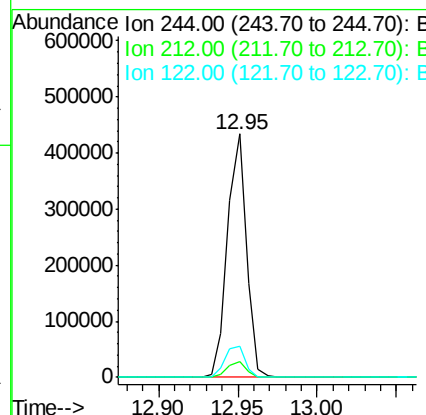
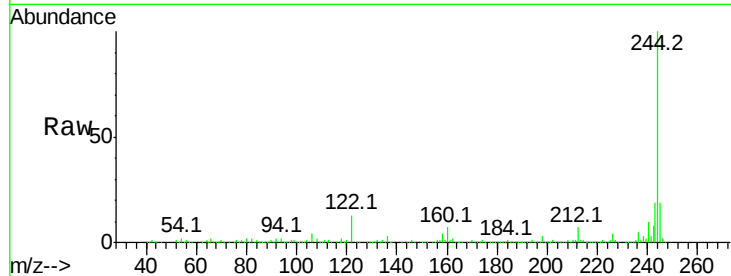
#78  
 Terphenyl-d14  
 Concen: 42.613 ng  
 RT: 12.95 min Scan# 1847  
 Delta R.T. -0.01 min  
 Lab File: BF099570.D  
 Acq: 17 Oct 2017 3:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.4   | 8.0   |
| 122     | 12.7  | 11.0  | 16.4  |

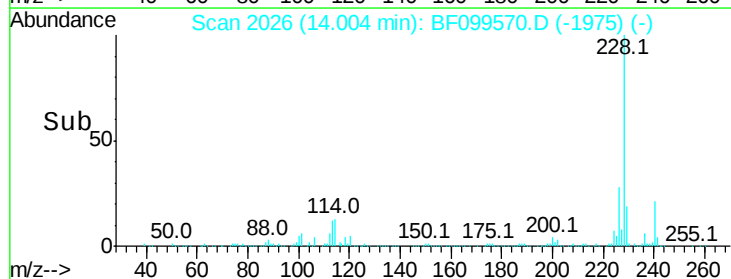
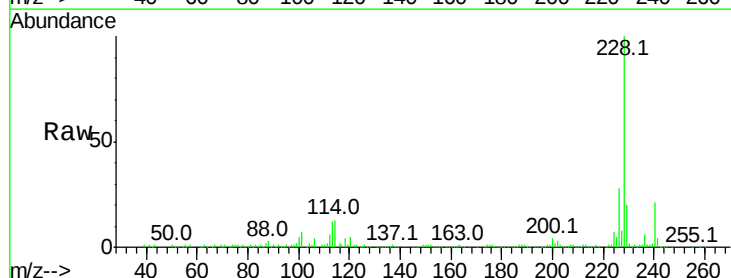
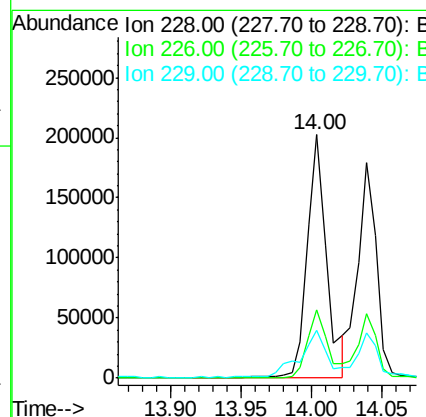
Manual Integrations  
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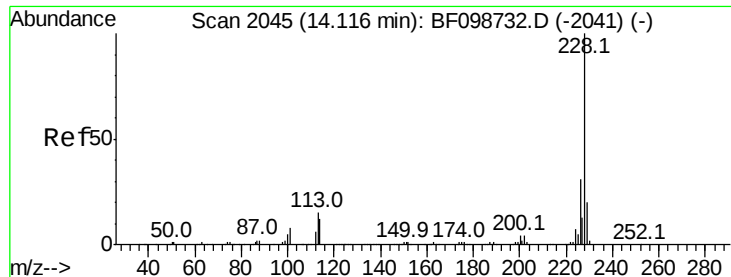
Sohil  
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#80  
 Benzo(a)anthracene  
 Concen: 16.710 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. 0.00 min  
 Lab File: BF099570.D  
 Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.6  | 33.8  |
| 229     | 19.7  | 15.8  | 23.6  |





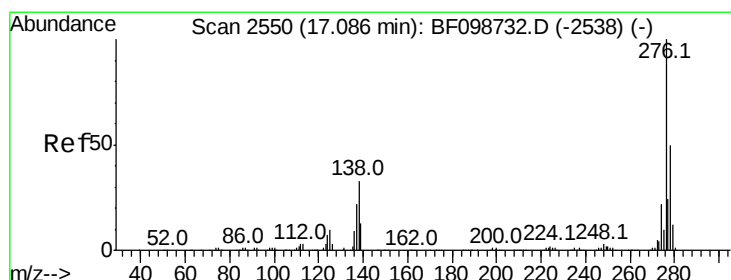
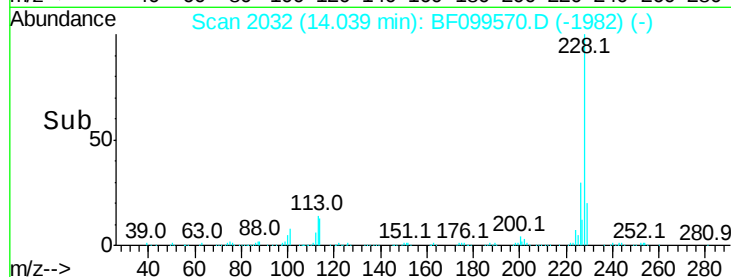
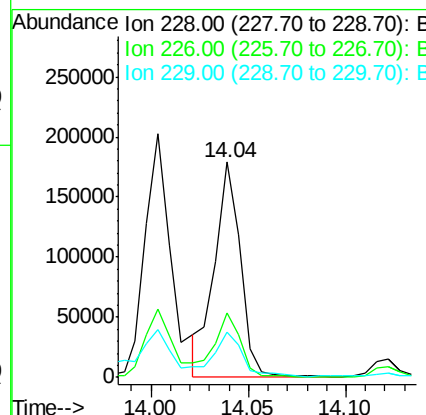
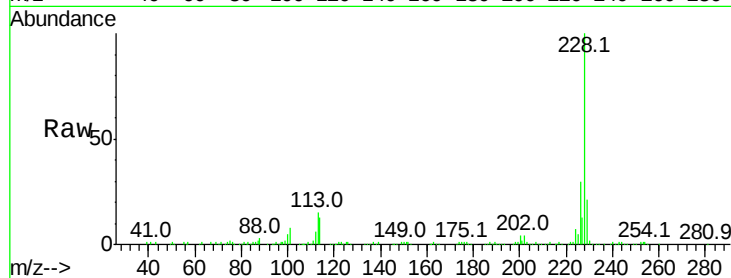
#82  
Chrysene  
Concen: 14.923 ng  
RT: 14.04 min Scan# 2032  
Delta R.T. -0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 165361 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.0  | 25.0  | 37.6   |
| 229       | 21.0  | 16.2  | 24.4   |

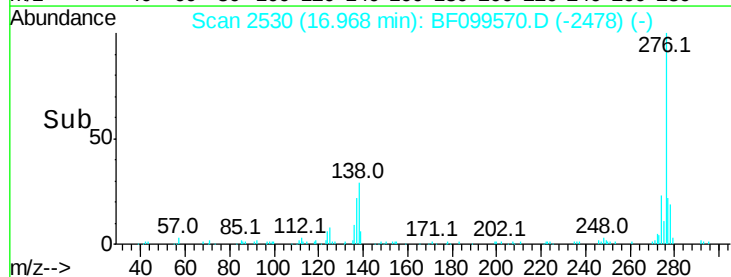
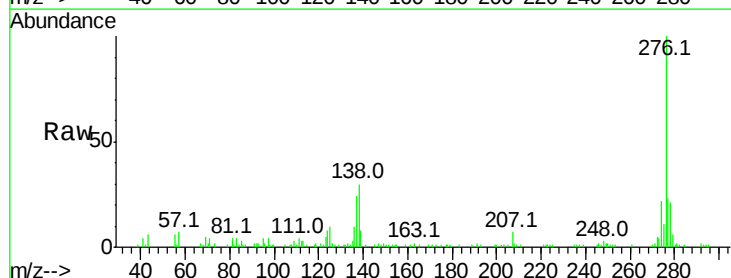
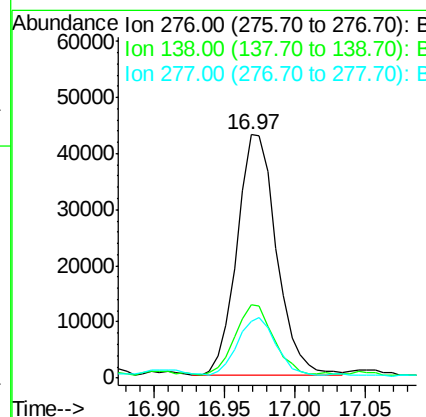
Manual Integrations  
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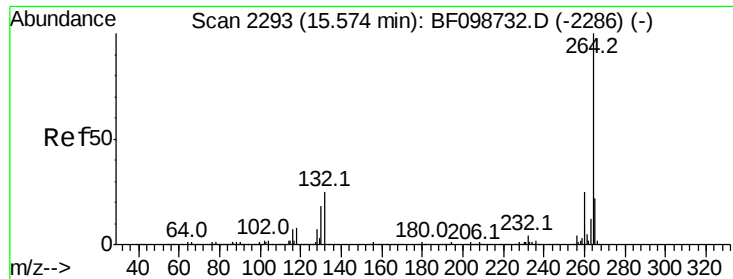
Sohil  
10/17/2017 5:02:09 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 9.488 ng  
RT: 16.97 min Scan# 2530  
Delta R.T. 0.01 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 84101 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 29.9  | 25.0  | 37.6  |
| 277       | 24.0  | 20.1  | 30.1  |





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2278

Delta R.T. 0.01 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

Instrument :

BNA\_F

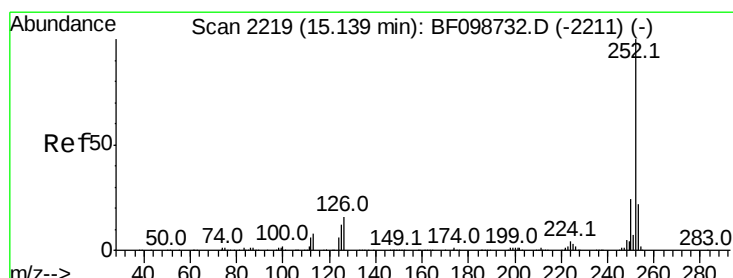
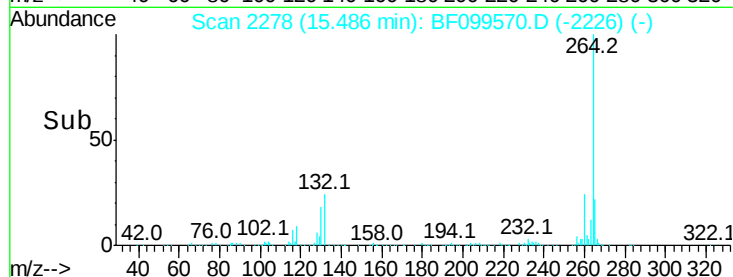
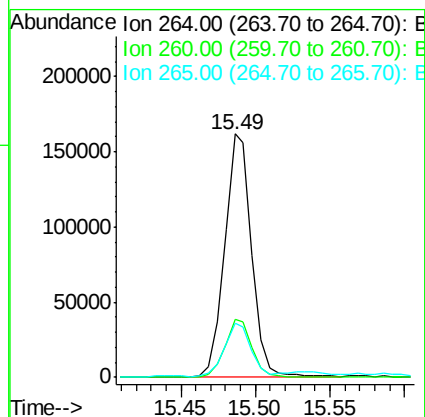
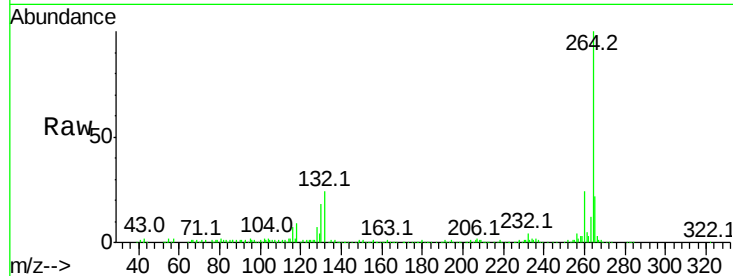
ClientSampleId :

WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 22.3  | 17.5  | 26.3  |

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#87

Benzo(b)fluoranthene

Concen: 17.271 ng m

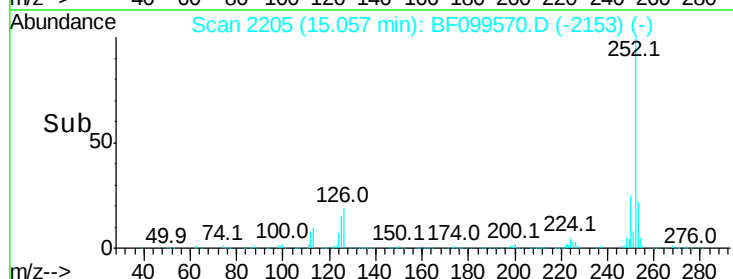
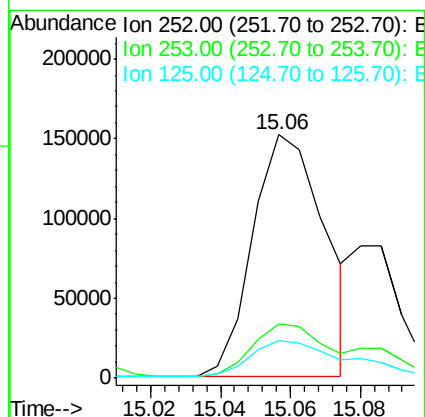
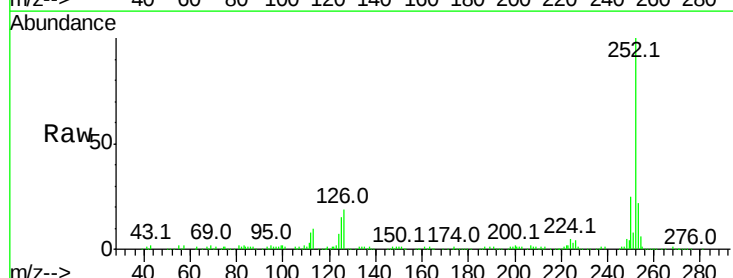
RT: 15.06 min Scan# 2205

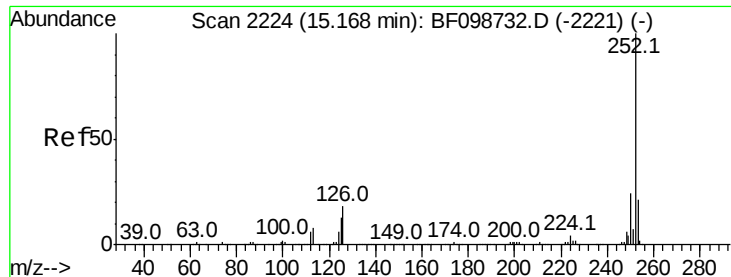
Delta R.T. 0.01 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.0  | 25.6  |
| 125     | 15.2  | 9.0   | 13.6# |





#88

Benzo(k)fluoranthene

Concen: 6.314 ng

RT: 15.08 min Scan# 2209

Delta R.T. 0.00 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

Instrument :

BNA\_F

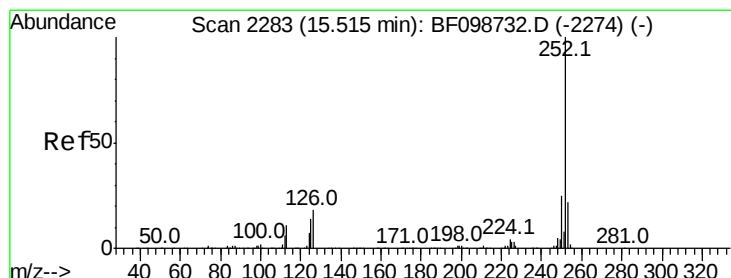
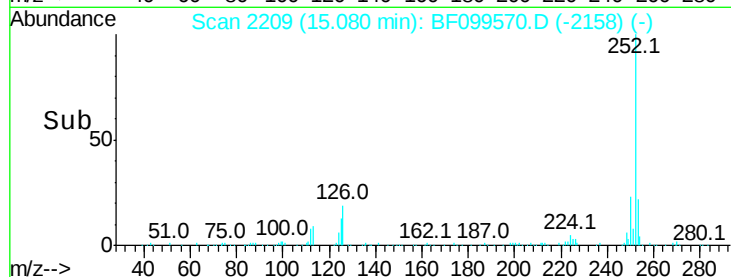
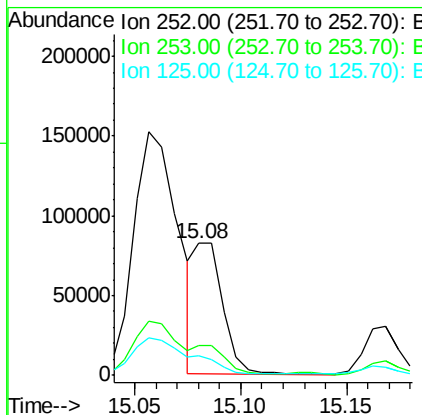
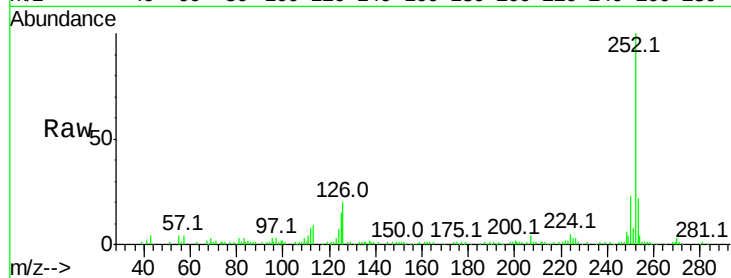
ClientSampleId :

WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.9  | 26.9  |
| 125     | 14.6  | 10.2  | 15.2  |

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#89

Benzo(a)pyrene

Concen: 14.405 ng

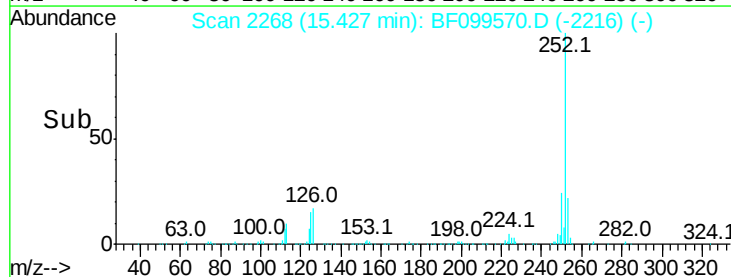
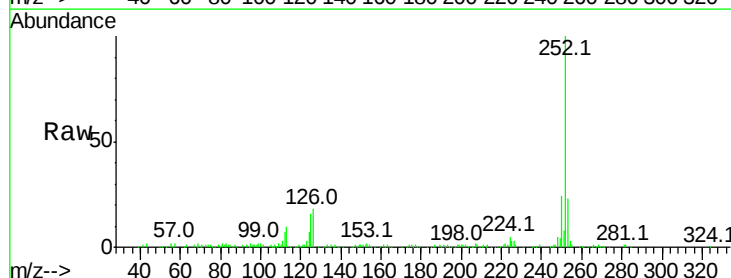
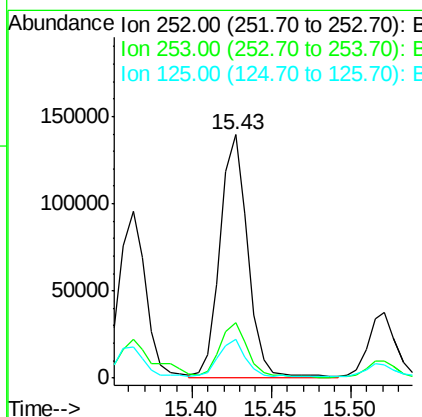
RT: 15.43 min Scan# 2268

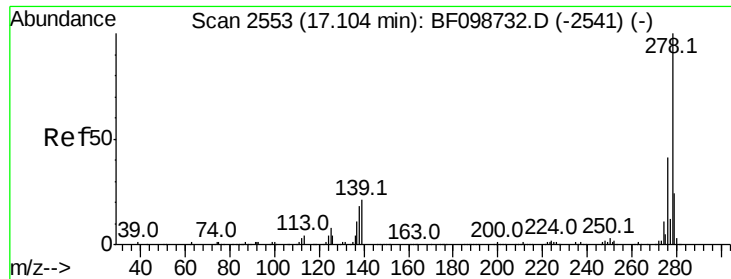
Delta R.T. 0.01 min

Lab File: BF099570.D

Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.1  | 25.7  |
| 125     | 16.0  | 9.8   | 14.6  |





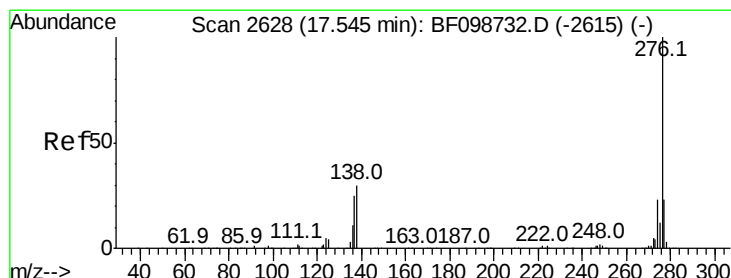
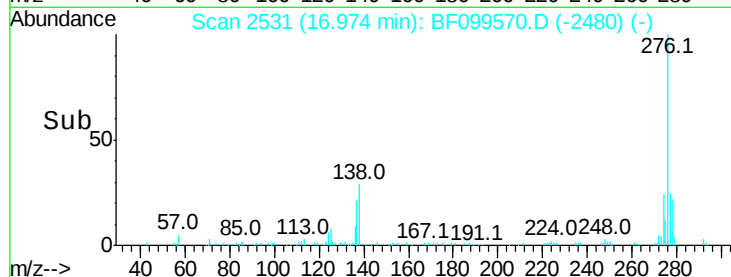
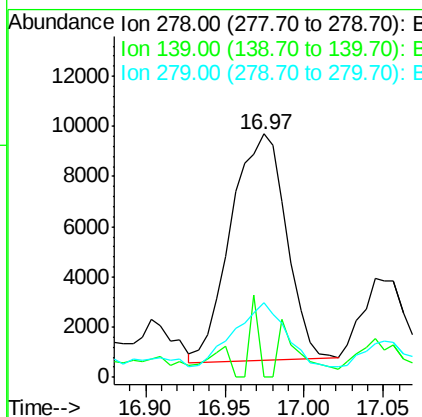
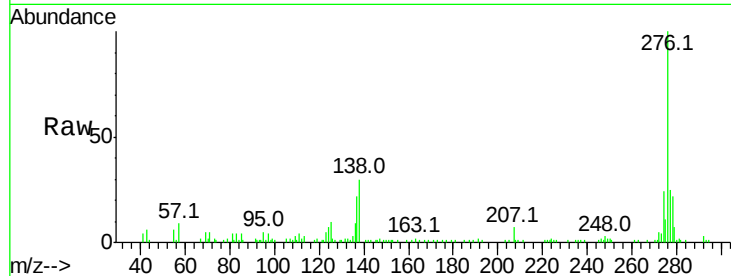
#90  
Dibenzo(a,h)anthracene  
Concen: 2.350 ng  
RT: 16.97 min Scan# 2531  
Delta R.T. 0.00 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

Instrument :  
BNA\_F  
ClientSampleId :  
WPSB-5A-2-BGSRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 15.9  | 23.9# |
| 279     | 30.7  | 19.0  | 28.4# |

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#91  
Benzo(g,h,i)perylene  
Concen: 8.336 ng  
RT: 17.43 min Scan# 2608  
Delta R.T. 0.02 min  
Lab File: BF099570.D  
Acq: 17 Oct 2017 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.6  | 17.9  | 26.9  |
| 138     | 28.4  | 21.8  | 32.8  |

