

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012819\  
 Data File : BF112286.D  
 Acq On : 28 Jan 2019 20:34  
 Operator : JU/SJ  
 Sample : K1261-01 2X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EL-EAST-OF-JDHS

Quant Time: Jan 29 00:07:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 206228   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 789072   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.87  | 164  | 364878   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 606239   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.00 | 240  | 432802   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.47 | 264  | 427169   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.47  | 112 | 606052 | 62.42 | ng | -0.01 |
| 7) Phenol-d6                | 6.48  | 99  | 749148 | 55.53 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.40  | 82  | 453685 | 33.13 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330 | 182016 | 42.86 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 9.19  | 172 | 766807 | 29.72 | ng | -0.01 |
| 79) Terphenyl-d14           | 12.94 | 244 | 507257 | 22.07 | ng | -0.01 |

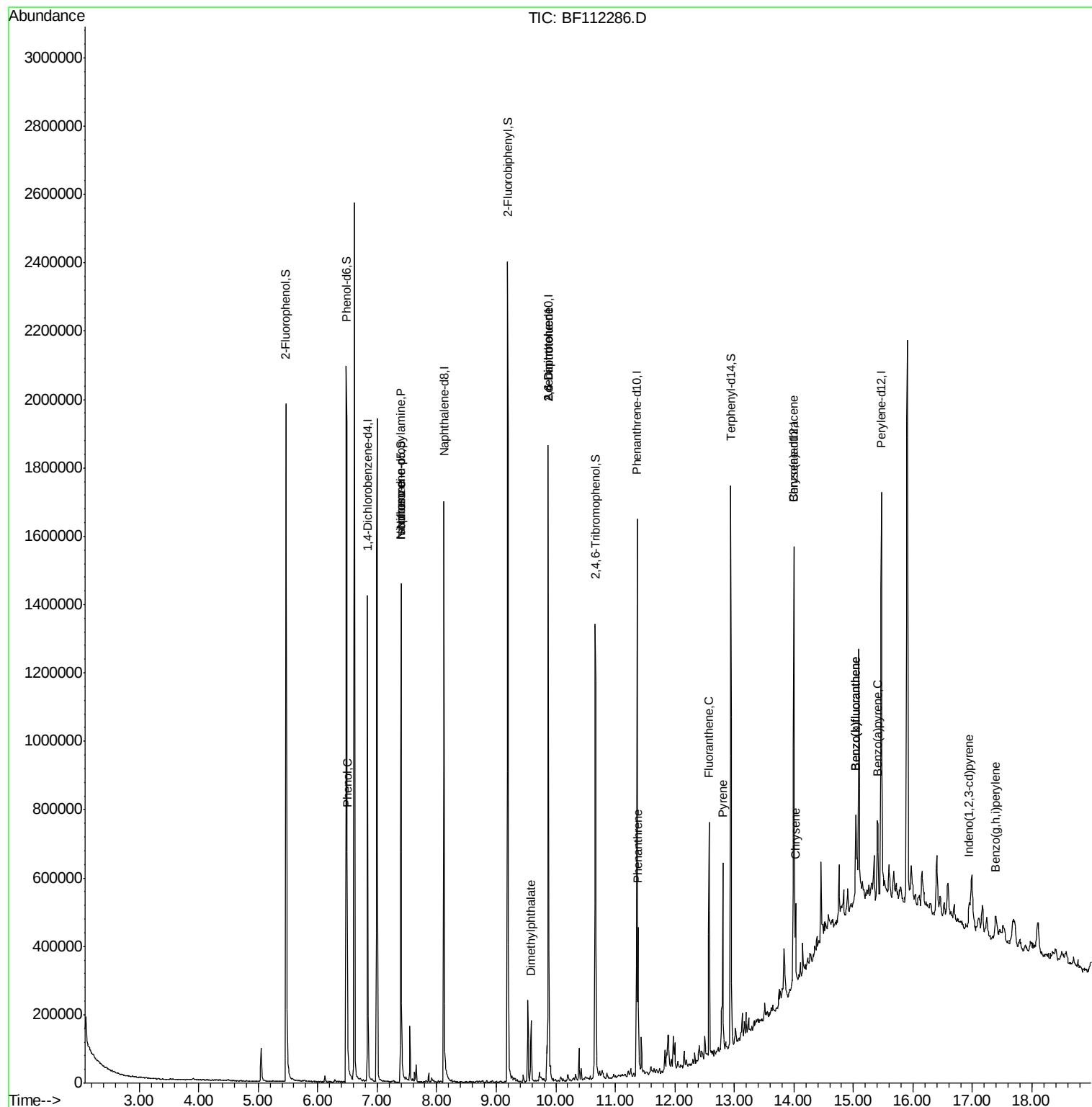
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 6.50  | 94  | 67748  | 4.577  | ng | # 73 |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70  | 61249  | 6.584  | ng | # 75 |
| 25) Isophorone                 | 7.40  | 82  | 453680 | 21.117 | ng | # 64 |
| 50) Dimethylphthalate          | 9.59  | 163 | 66801  | 2.356  | ng | 98   |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165 | 47863  | 7.539  | ng | # 34 |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165 | 47863  | 5.922  | ng | # 32 |
| 71) Phenanthrene               | 11.39 | 178 | 158348 | 5.024  | ng | 95   |
| 75) Fluoranthene               | 12.57 | 202 | 264491 | 7.824  | ng | 99   |
| 78) Pyrene                     | 12.80 | 202 | 217124 | 7.246  | ng | 97   |
| 81) Benzo(a)anthracene         | 13.99 | 228 | 114110 | 4.485  | ng | 96   |
| 83) Chrysene                   | 14.03 | 228 | 88116  | 3.628  | ng | 96   |
| 86) Indeno(1,2,3-cd)pyrene     | 16.94 | 276 | 51753  | 2.689  | ng | 94   |
| 88) Benzo(b)fluoranthene       | 15.04 | 252 | 175863 | 6.884  | ng | # 93 |
| 89) Benzo(k)fluoranthene       | 15.04 | 252 | 175863 | 7.187  | ng | # 94 |
| 90) Benzo(a)pyrene             | 15.40 | 252 | 94443  | 4.109  | ng | # 94 |
| 92) Benzo(g,h,i)perylene       | 17.39 | 276 | 49887  | 2.854  | ng | 96   |

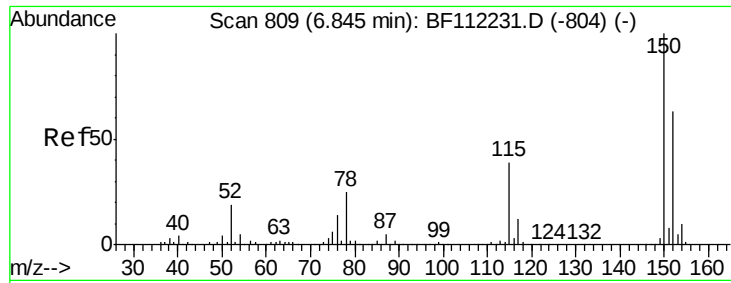
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012819\  
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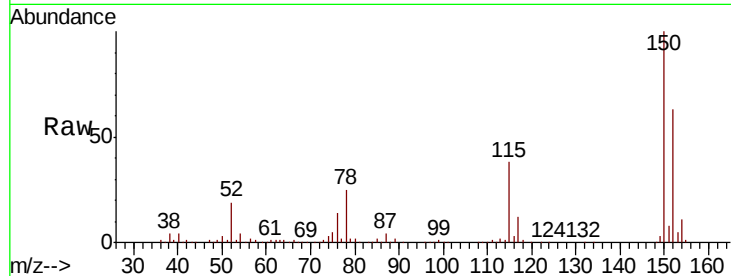


#1

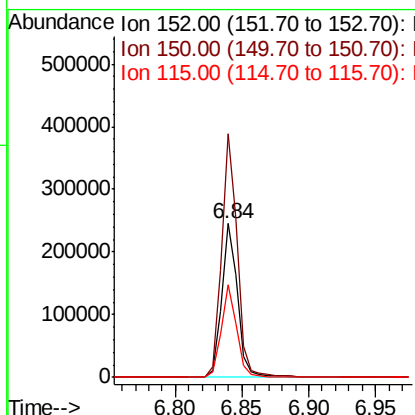
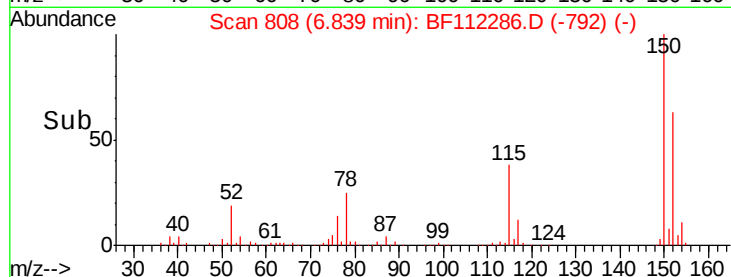
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Instrument :  
BNA\_F  
ClientSampleId :  
EL-EAST-OF-JDHS

Tgt Ion:152 Resp: 206228  
Ion Ratio Lower Upper  
152 100  
150 158.6 127.4 191.0  
115 60.2 45.5 68.3



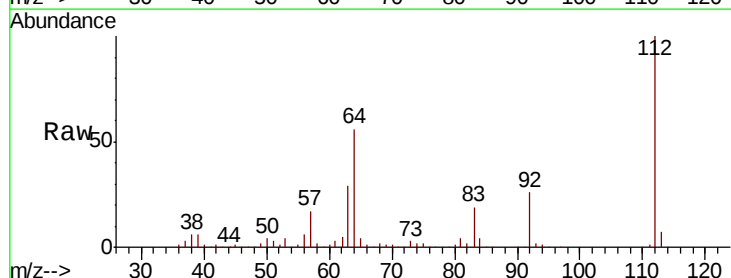
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



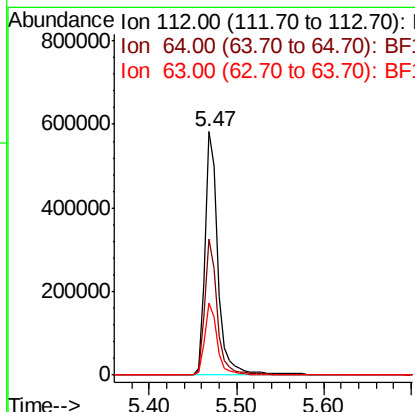
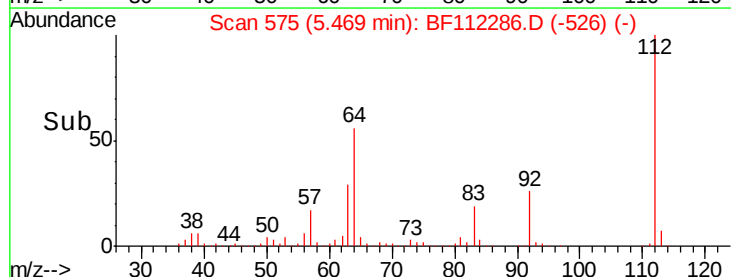
#5

2-Fluorophenol  
Concen: 62.421 ng  
RT: 5.47 min Scan# 575  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Tgt Ion:112 Resp: 606052  
Ion Ratio Lower Upper  
112 100  
64 56.1 45.7 68.5  
63 29.4 23.6 35.4



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: 55.528 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

Instrument :

BNA\_F

ClientSampleId :

EL-EAST-OF-JDHS

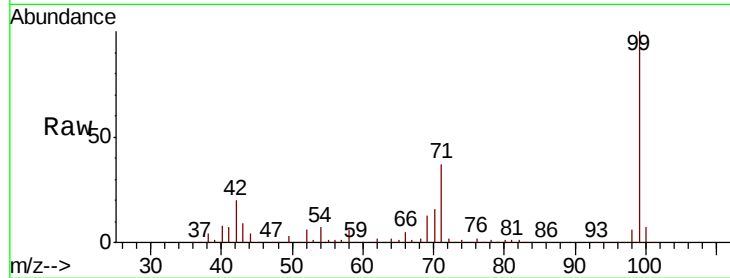
Tgt Ion: 99 Resp: 749148

Ion Ratio Lower Upper

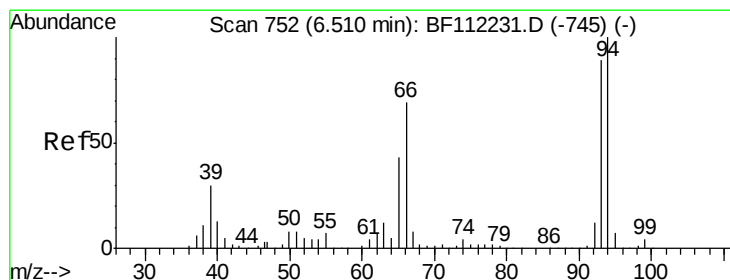
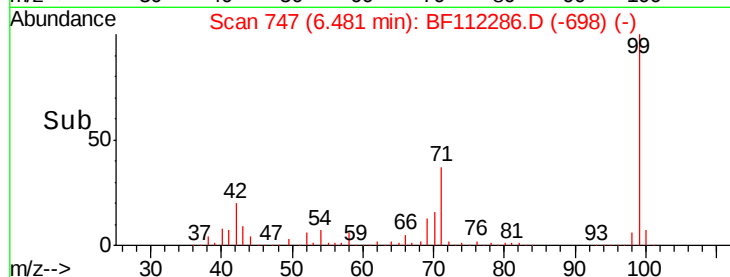
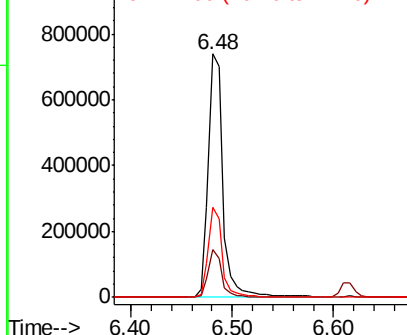
99 100

42 19.7 15.1 22.7

71 36.9 26.9 40.3



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



#10

Phenol

Concen: 4.577 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

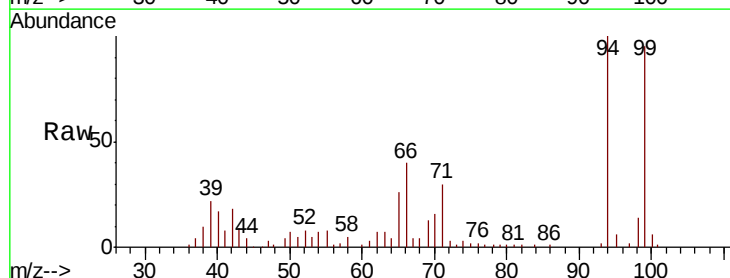
Tgt Ion: 94 Resp: 67748

Ion Ratio Lower Upper

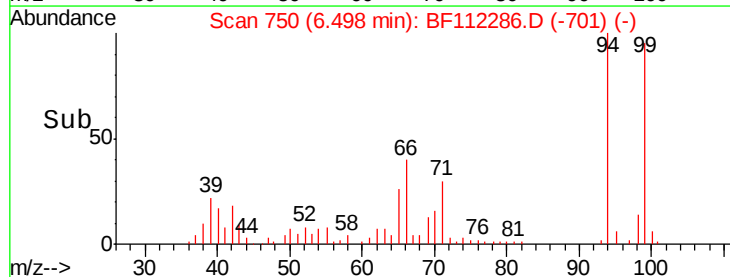
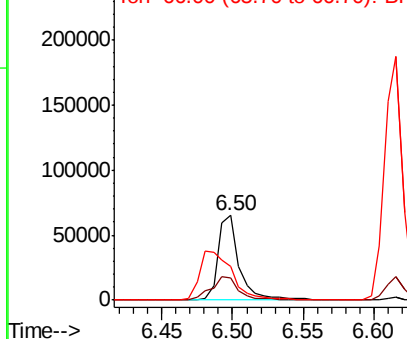
94 100

65 26.0 20.3 60.3

66 40.0 42.4 82.4#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

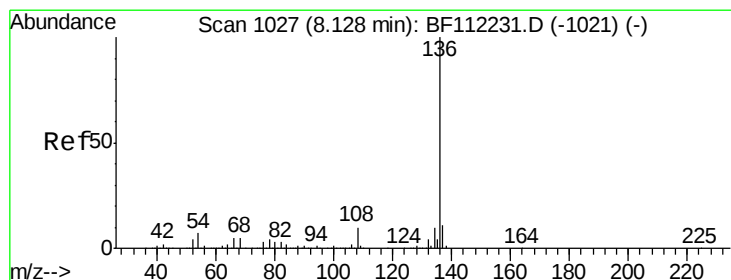
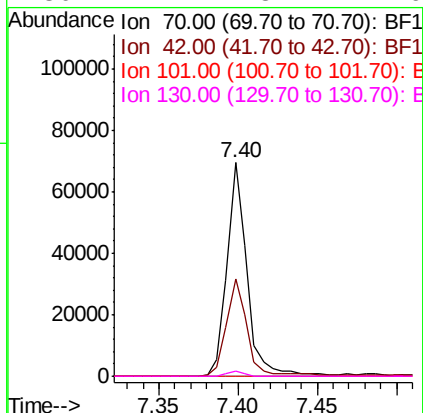
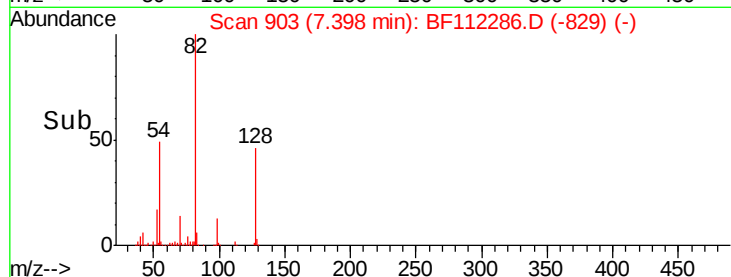
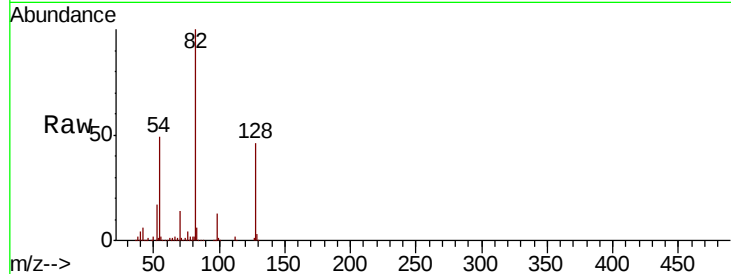




#19  
n-Nitroso-di-n-propylamine  
Concen: 6.584 ng  
RT: 7.40 min Scan# 903  
Delta R.T. 0.14 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

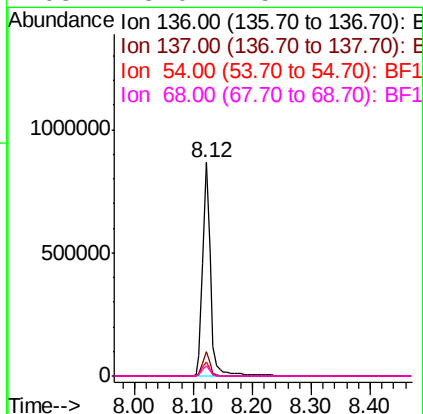
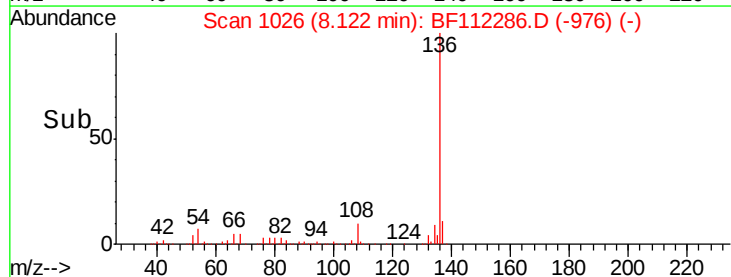
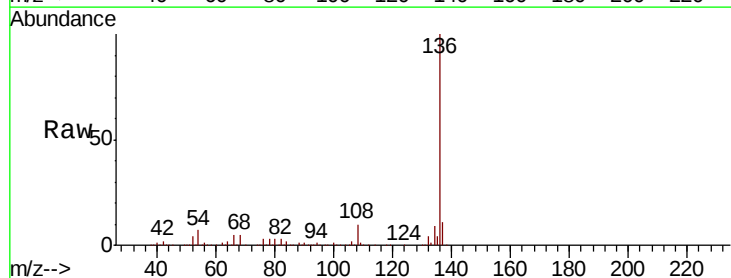
Instrument :  
BNA\_F  
ClientSampleId :  
EL-EAST-OF-JDHS

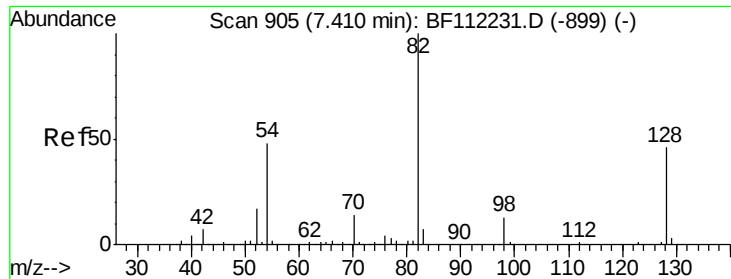
Tgt Ion: 70 Resp: 61249  
Ion Ratio Lower Upper  
70 100  
42 45.6 47.6 71.4#  
101 0.0 7.9 11.9#  
130 2.2 18.4 27.6#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1026  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Tgt Ion: 136 Resp: 789072  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.1 13.7  
54 6.5 5.9 8.9  
68 5.0 5.1 7.7#

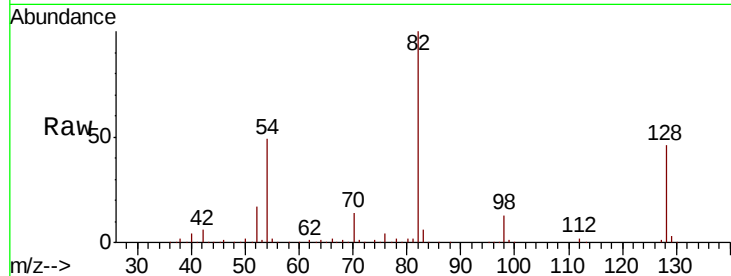




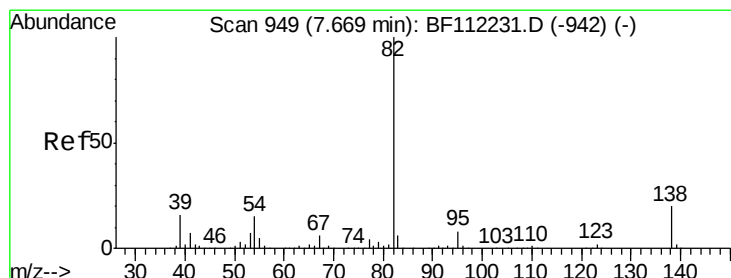
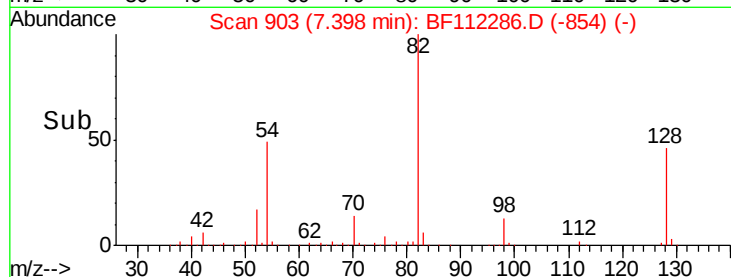
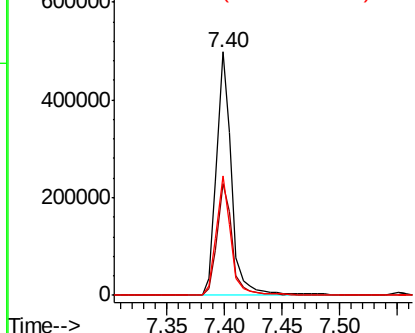
#23  
Nitrobenzene-d5  
Concen: 33.129 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Instrument :  
BNA\_F  
ClientSampleId :  
EL-EAST-OF-JDHS

Tgt Ion: 82 Resp: 453685  
Ion Ratio Lower Upper  
82 100  
128 45.9 37.8 56.8  
54 49.1 39.7 59.5

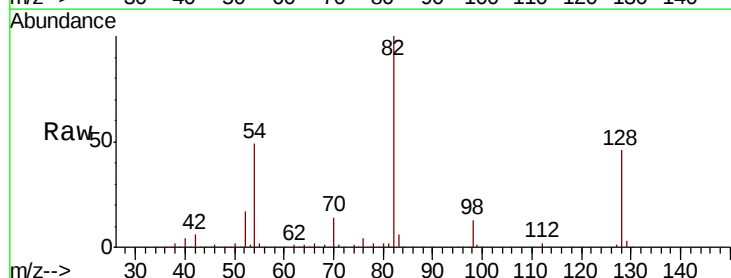


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

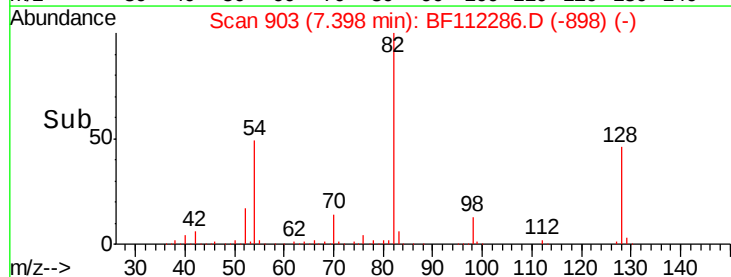
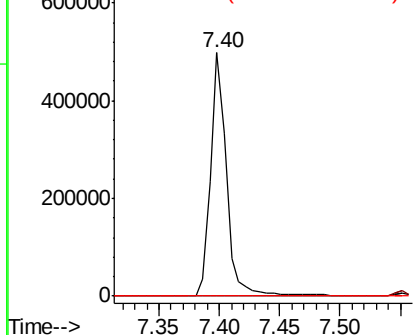


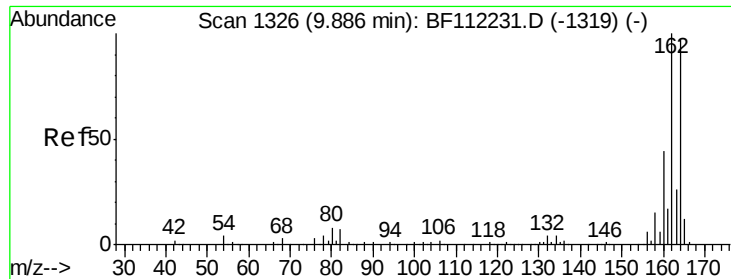
#25  
Isophorone  
Concen: 21.117 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.27 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Tgt Ion: 82 Resp: 453680  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.7 8.5#  
138 0.0 15.4 23.0#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

Instrument :

BNA\_F

ClientSampleId :

EL-EAST-OF-JDHS

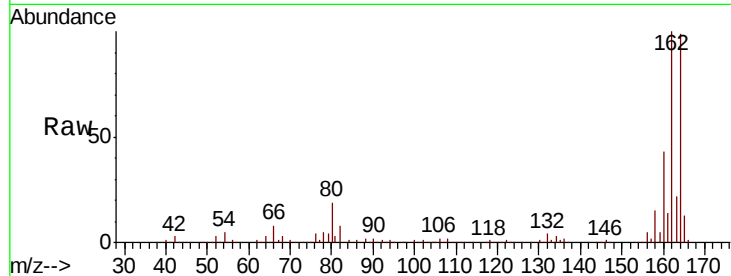
Tgt Ion:164 Resp: 364878

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.4

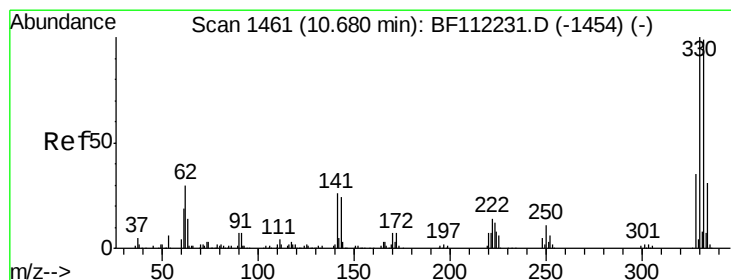
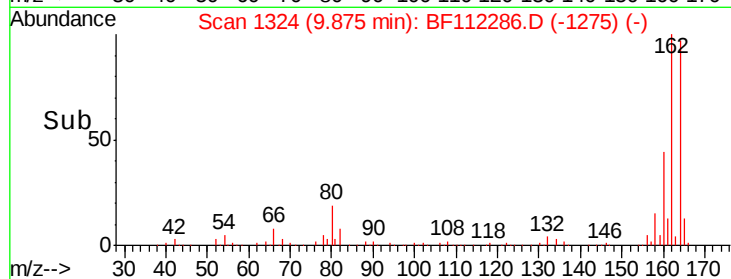
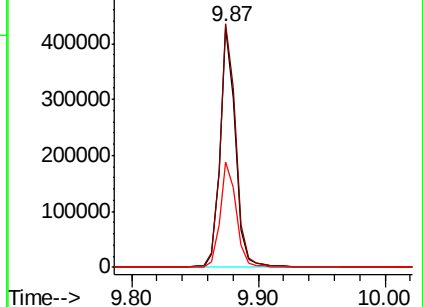
160 44.1 36.2 54.4



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



#42

2,4,6-Tribromophenol

Concen: 42.857 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

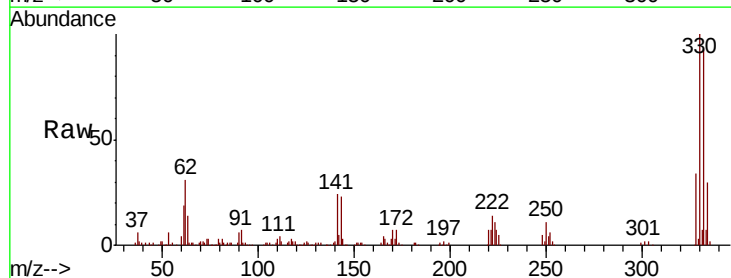
Tgt Ion:330 Resp: 182016

Ion Ratio Lower Upper

330 100

332 95.9 76.6 114.8

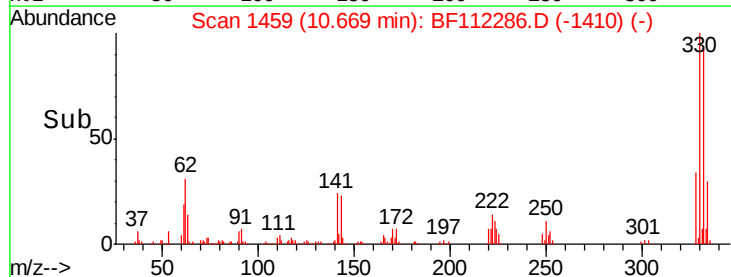
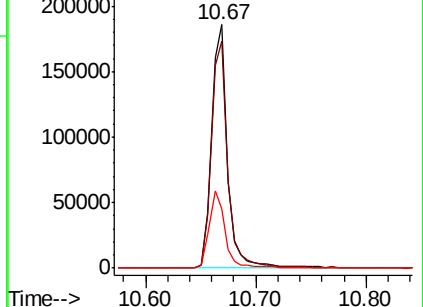
141 32.0 24.3 36.5



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

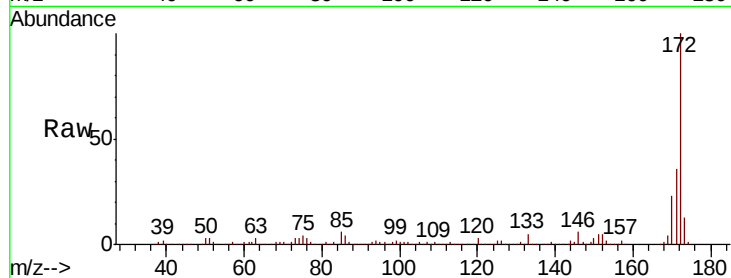




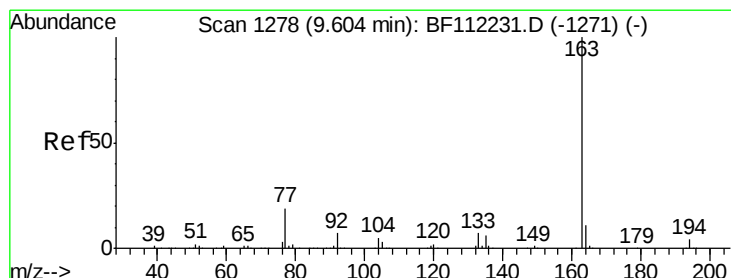
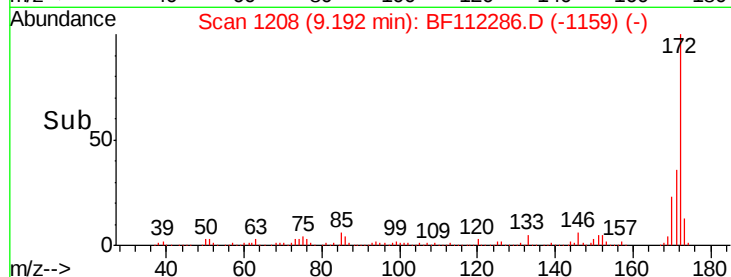
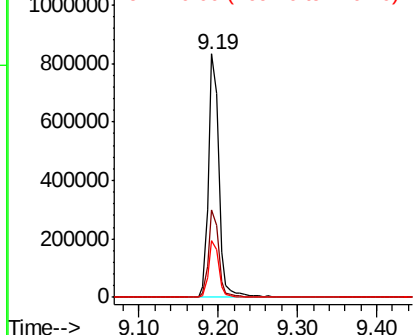
#45  
 2-Fluorobiphenyl  
 Concen: 29.723 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. -0.01 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

Instrument :  
 BNA\_F  
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Tgt Ion:172 Resp: 766807  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 30.5 45.7  
 170 23.1 20.2 30.4

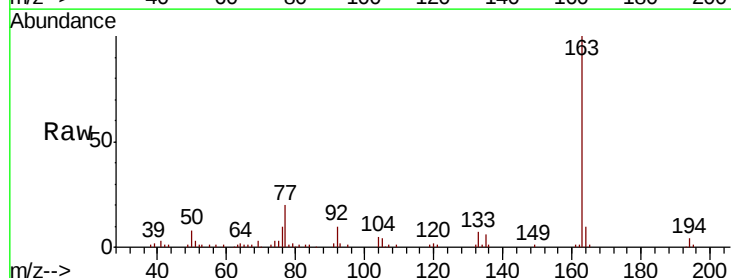


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

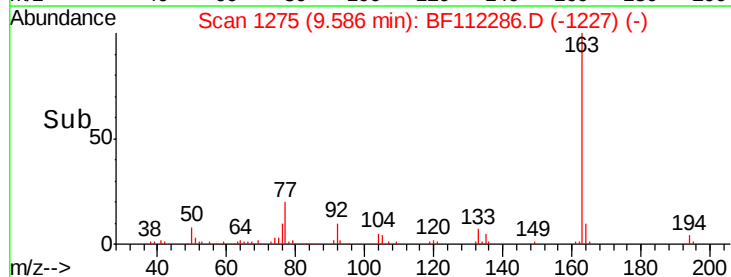
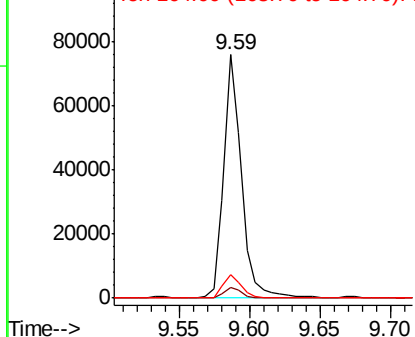


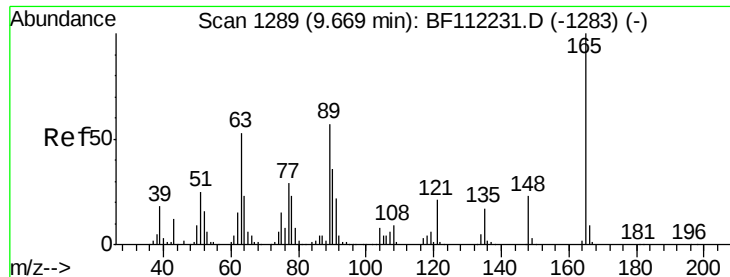
#50  
 Dimethylphthalate  
 Concen: 2.356 ng  
 RT: 9.59 min Scan# 1275  
 Delta R.T. -0.02 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

Tgt Ion:163 Resp: 66801  
 Ion Ratio Lower Upper  
 163 100  
 194 4.3 3.3 4.9  
 164 9.6 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E  
 Ion 194.00 (193.70 to 194.70): E  
 Ion 164.00 (163.70 to 164.70): E

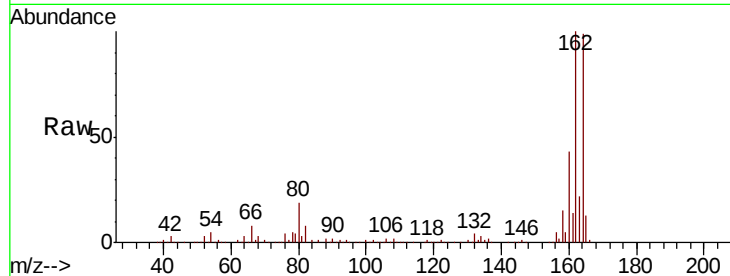




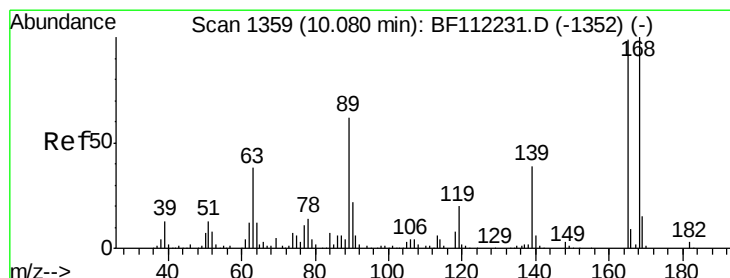
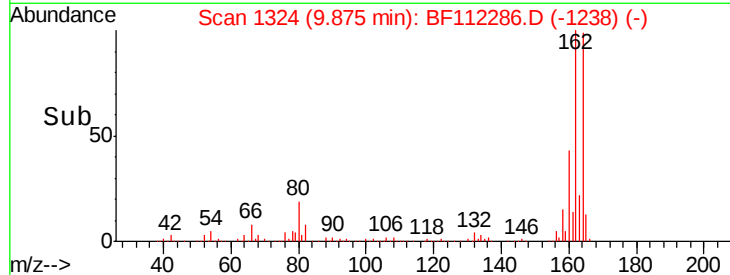
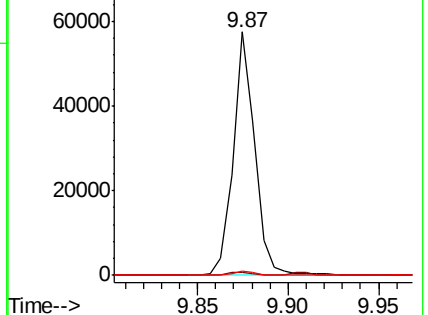
#51  
 2,6-Dinitrotoluene  
 Concen: 7.539 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. 0.21 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EL-EAST-OF-JDHS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 33.8  | 50.8# |
| 89      | 1.7   | 36.9  | 55.3# |

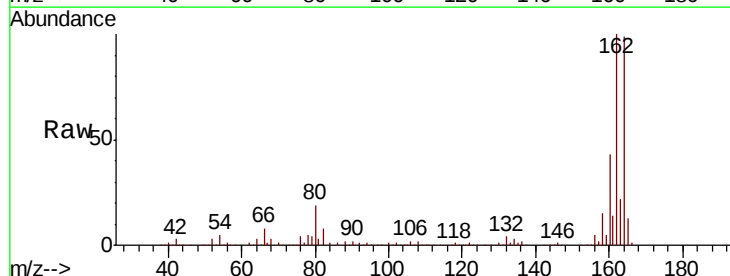


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

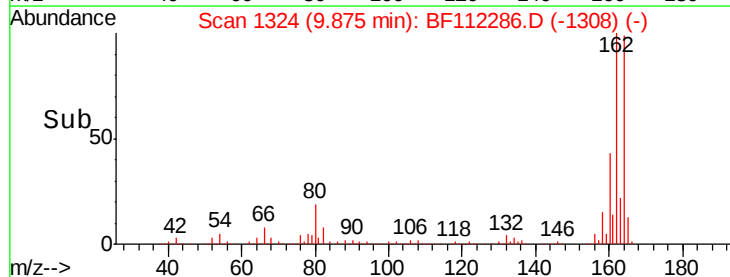
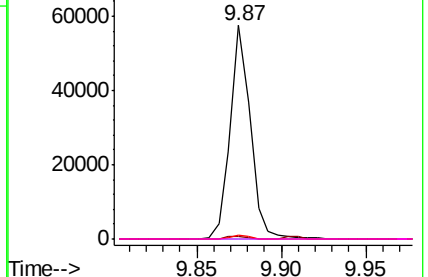


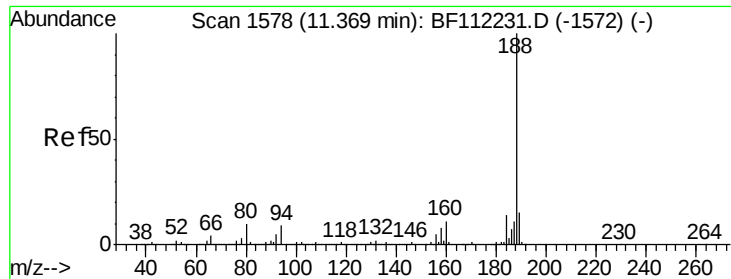
#57  
 2,4-Dinitrotoluene  
 Concen: 5.922 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. -0.21 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 27.9  | 41.9# |
| 89      | 1.7   | 47.9  | 71.9# |
| 182     | 0.0   | 2.2   | 3.4#  |



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

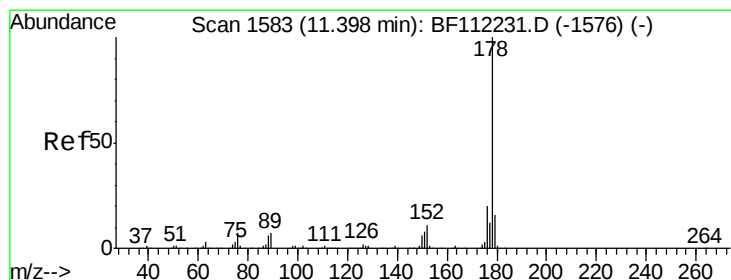
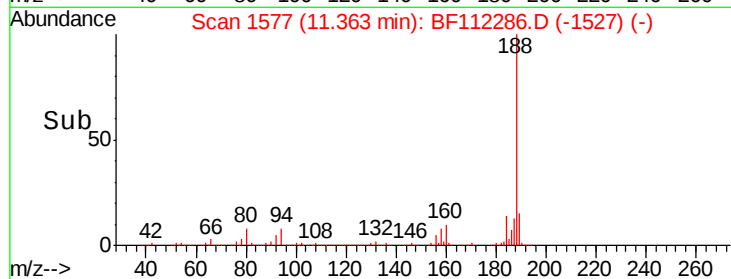
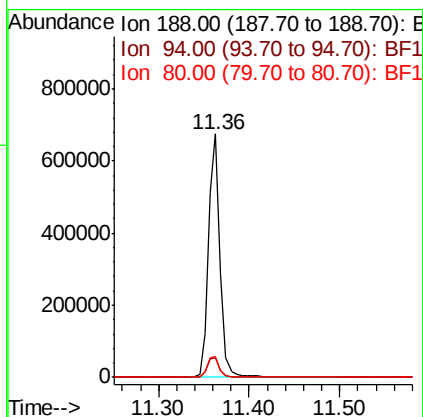
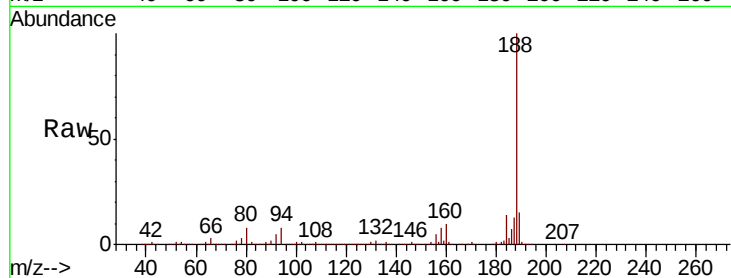




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

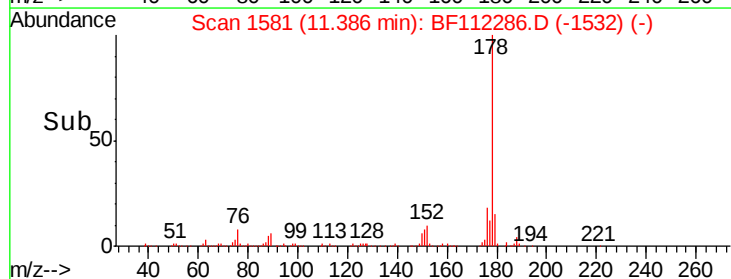
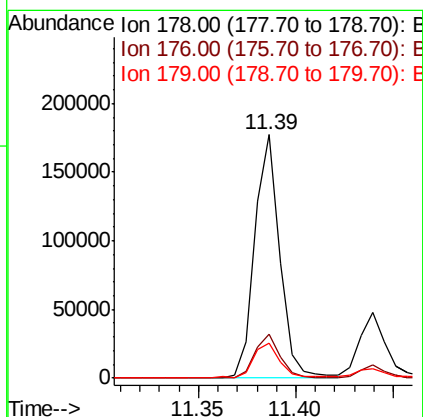
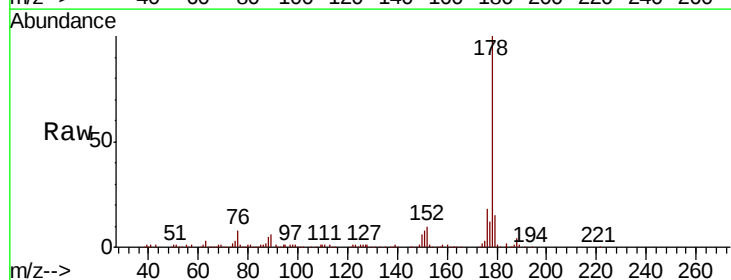
Instrument :  
BNA\_F  
ClientSampleId :  
EL-EAST-OF-JDHS

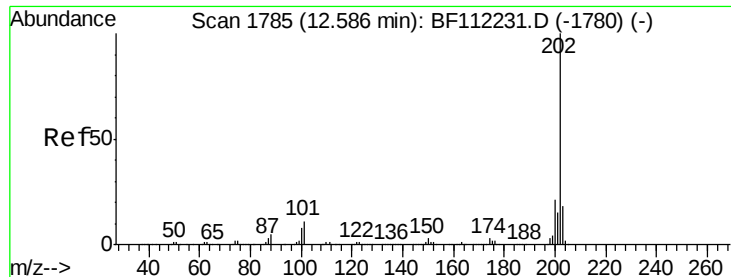
Tgt Ion:188 Resp: 606239  
Ion Ratio Lower Upper  
188 100  
94 8.0 8.2 12.2#  
80 8.3 8.9 13.3#



#71  
Phenanthrene  
Concen: 5.024 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Tgt Ion:178 Resp: 158348  
Ion Ratio Lower Upper  
178 100  
176 18.0 16.3 24.5  
179 14.6 13.0 19.4





#75

Fluoranthene

Concen: 7.824 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

Instrument :

BNA\_F

ClientSampleId :

EL-EAST-OF-JDHS

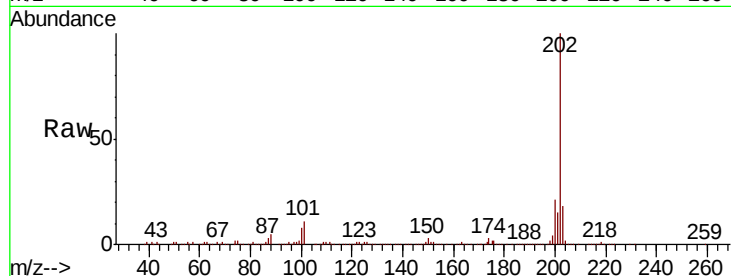
Tgt Ion: 202 Resp: 264491

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.8

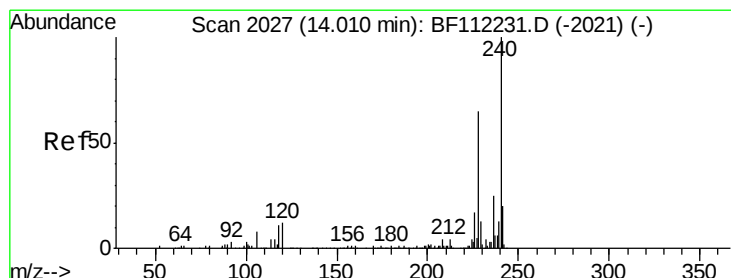
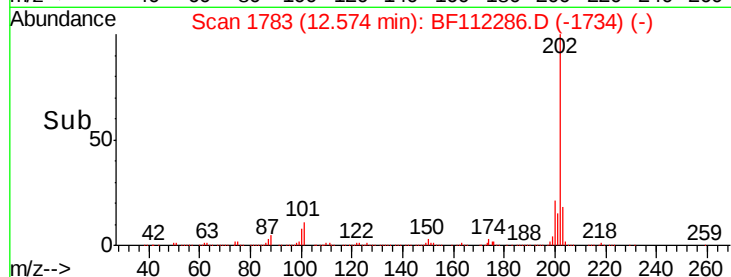
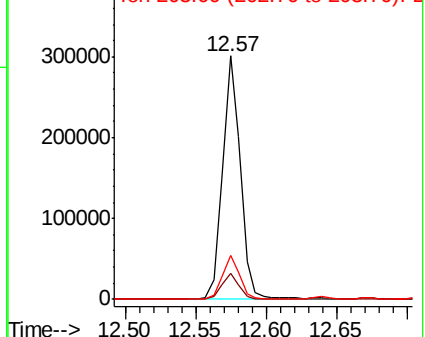
203 18.2 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

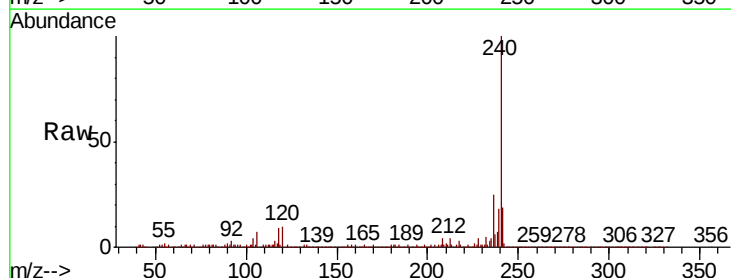
Tgt Ion: 240 Resp: 432802

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.6

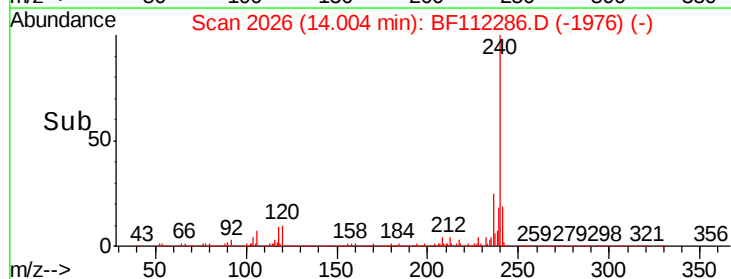
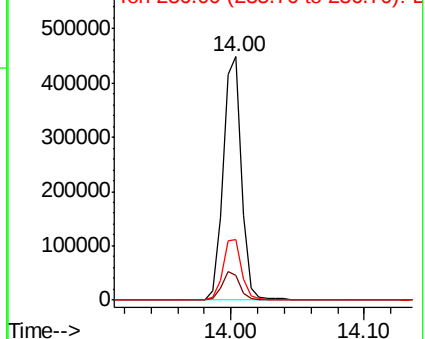
236 24.8 20.7 31.1

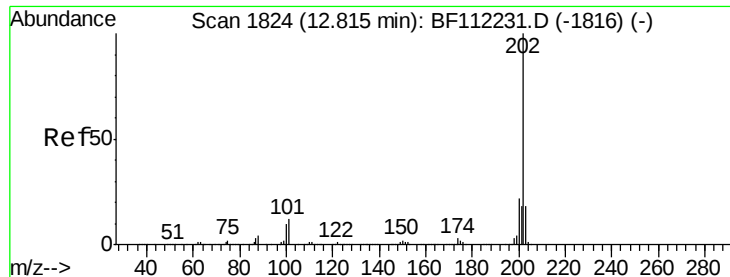


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

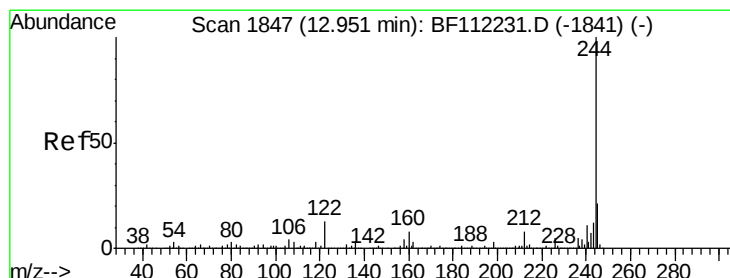
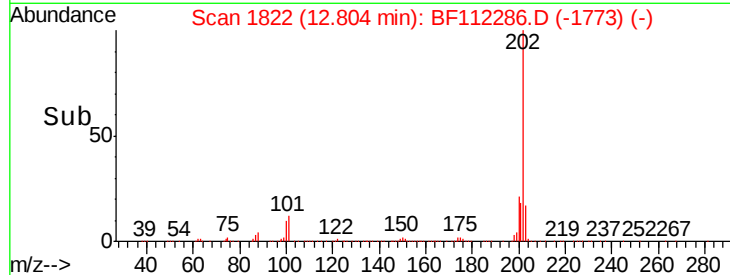
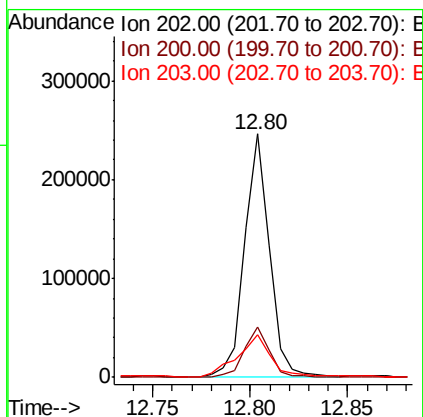
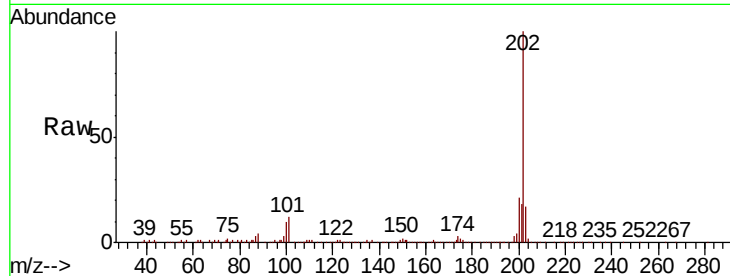




#78  
 Pyrene  
 Concen: 7.246 ng  
 RT: 12.80 min Scan# 1822  
 Delta R.T. -0.01 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

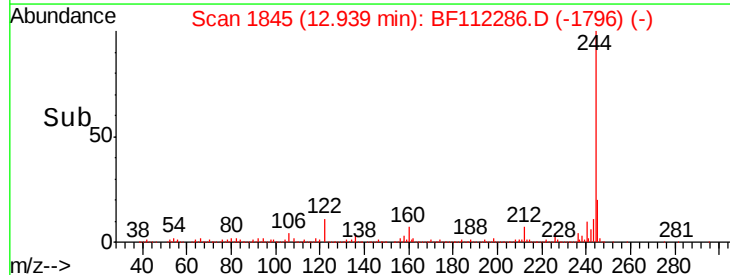
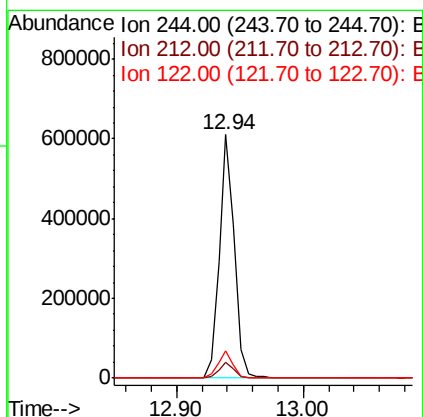
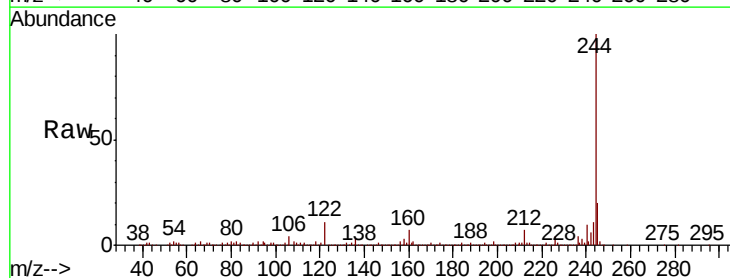
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EL-EAST-OF-JDHS

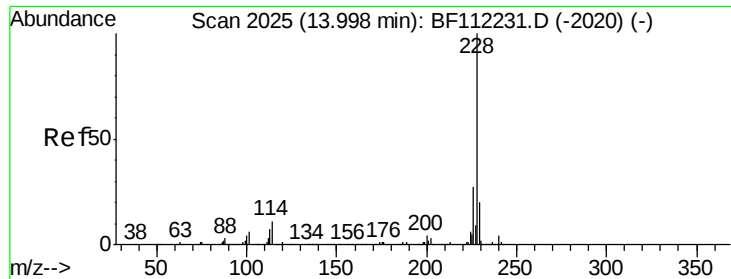
Tgt Ion: 202 Resp: 217124  
 Ion Ratio Lower Upper  
 202 100  
 200 20.6 17.7 26.5  
 203 17.4 14.6 22.0



#79  
 Terphenyl-d14  
 Concen: 22.075 ng  
 RT: 12.94 min Scan# 1845  
 Delta R.T. -0.01 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

Tgt Ion: 244 Resp: 507257  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.9 8.9  
 122 11.1 9.8 14.6





#81

Benzo(a)anthracene

Concen: 4.485 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

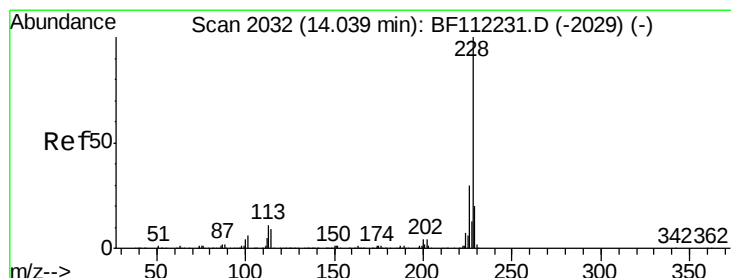
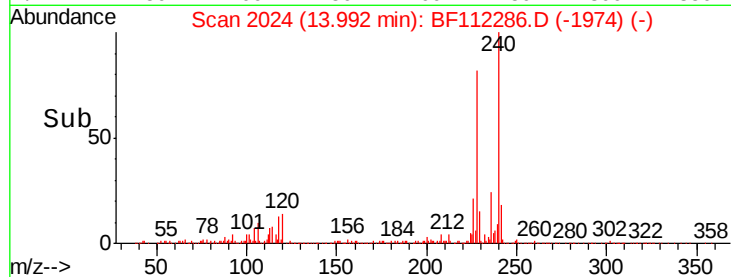
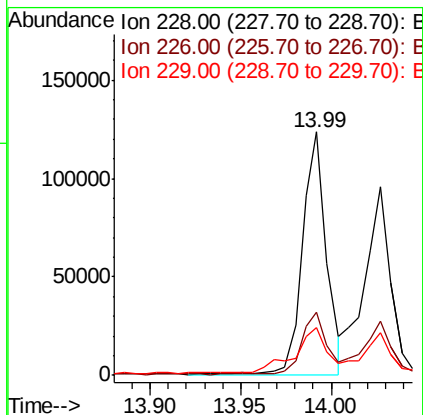
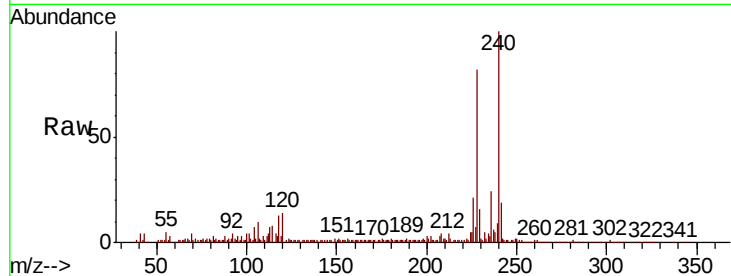
Instrument :

BNA\_F

ClientSampleId :

EL-EAST-OF-JDHS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 114110 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 26.0  | 22.6  | 34.0   |
| 229      | 19.5  | 16.5  | 24.7   |



#83

Chrysene

Concen: 3.628 ng

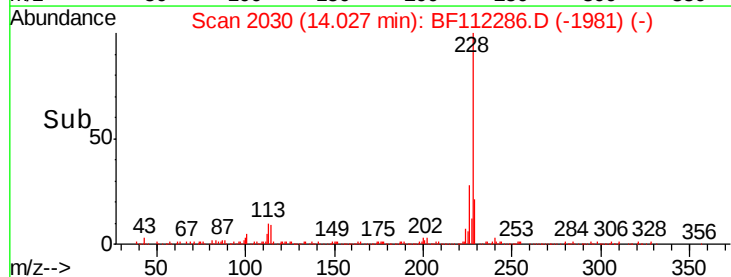
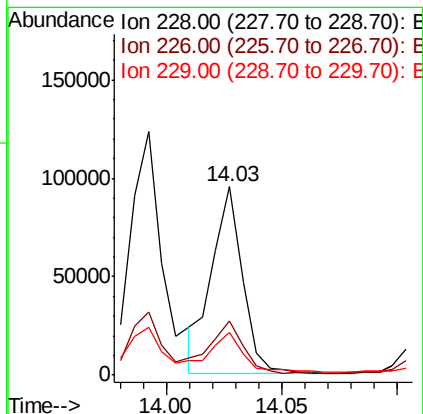
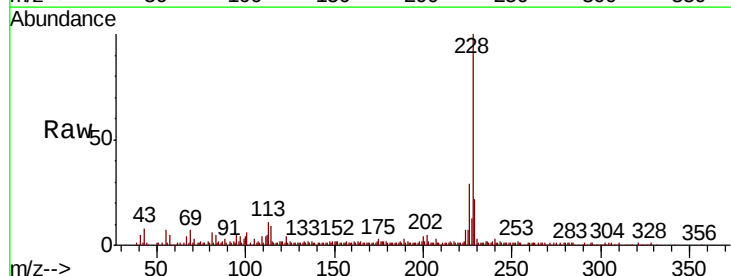
RT: 14.03 min Scan# 2030

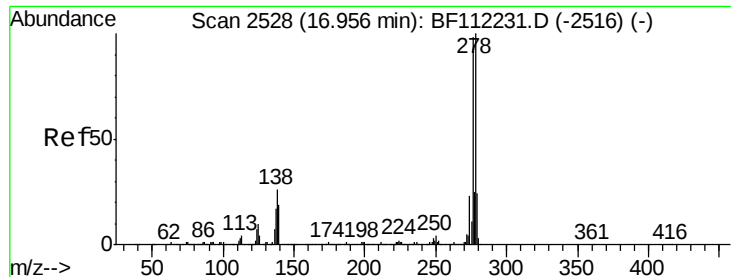
Delta R.T. -0.01 min

Lab File: BF112286.D

Acq: 28 Jan 2019 20:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 88116 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 28.9  | 25.0  | 37.6  |
| 229      | 22.4  | 16.6  | 24.8  |

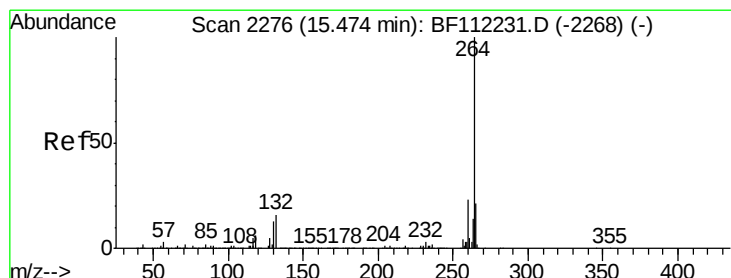
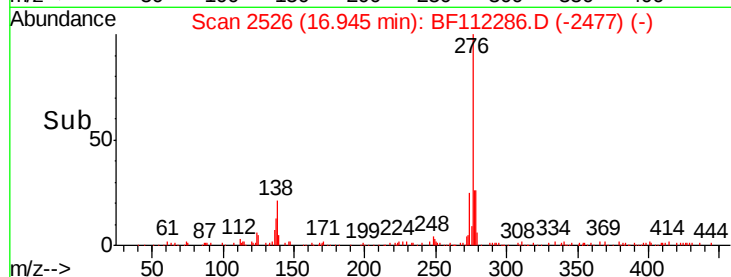
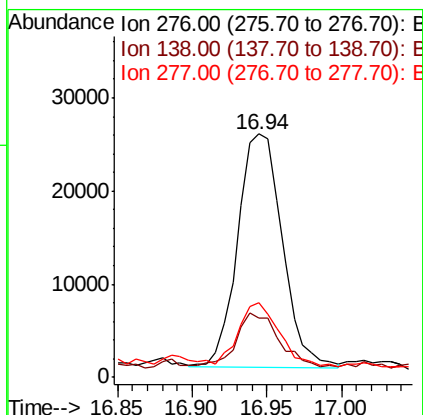
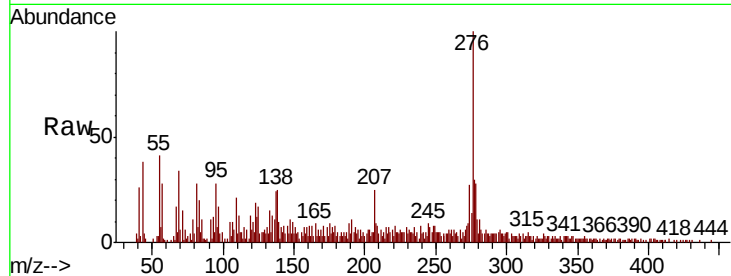




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.689 ng  
 RT: 16.94 min Scan# 2526  
 Delta R.T. -0.01 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

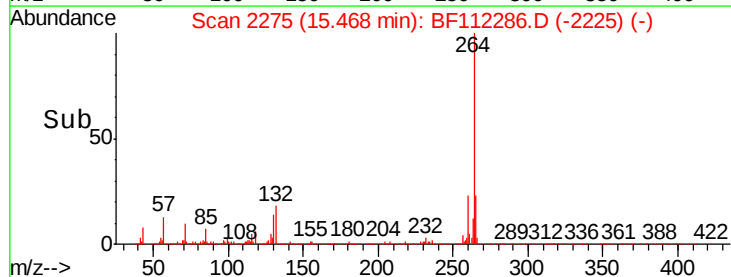
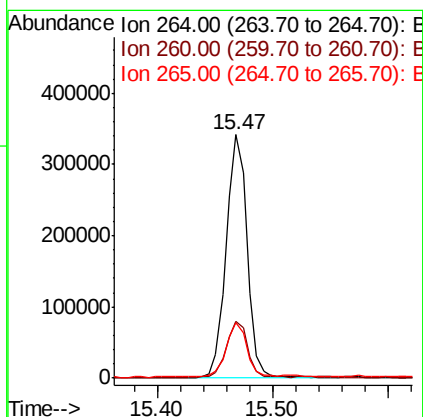
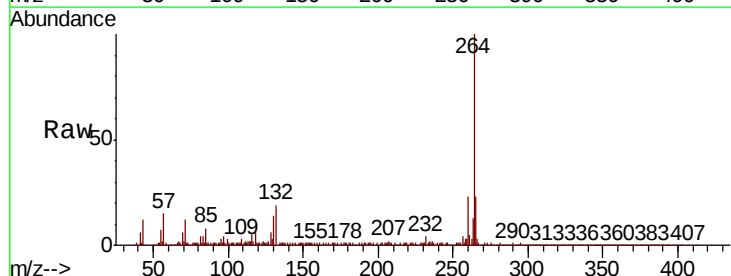
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EL-EAST-OF-JDHS

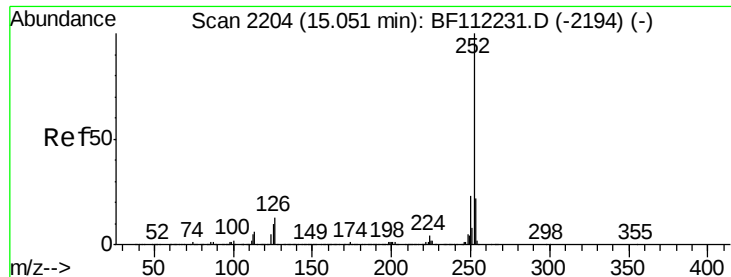
Tgt Ion:276 Resp: 51753  
 Ion Ratio Lower Upper  
 276 100  
 138 22.8 22.6 34.0  
 277 25.2 20.3 30.5



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2275  
 Delta R.T. -0.01 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

Tgt Ion:264 Resp: 427169  
 Ion Ratio Lower Upper  
 264 100  
 260 23.3 18.2 27.2  
 265 23.0 17.0 25.4

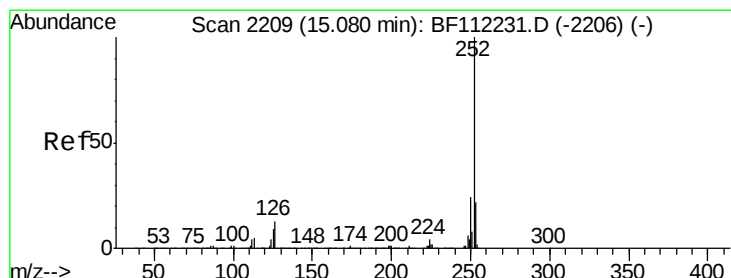
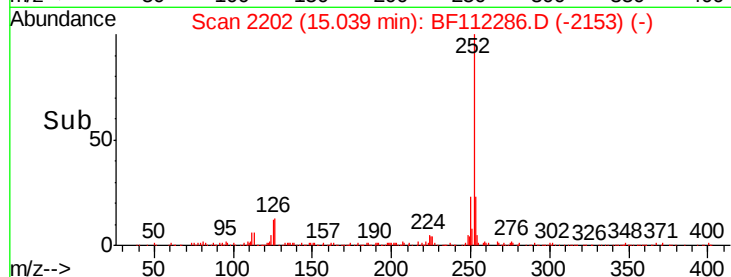
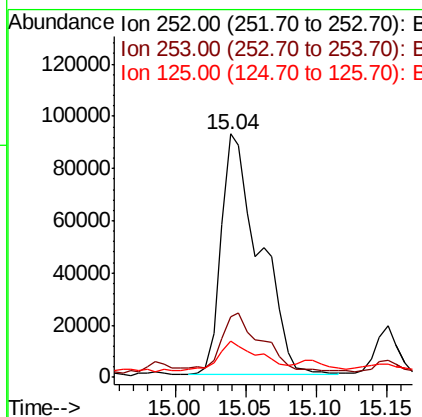
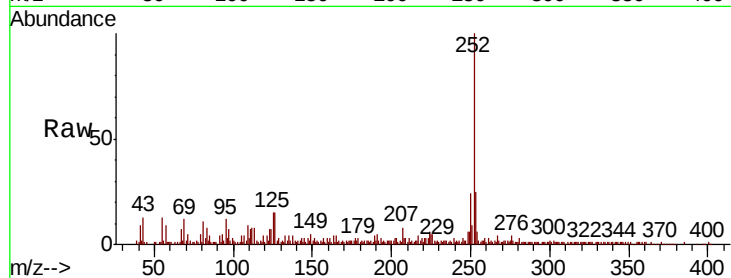




#88  
 Benzo(b)fluoranthene  
 Concen: 6.884 ng  
 RT: 15.04 min Scan# 2202  
 Delta R.T. -0.01 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

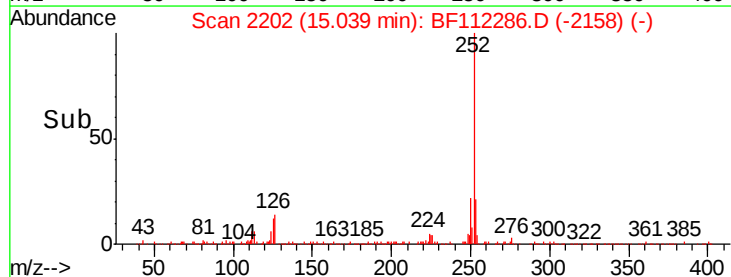
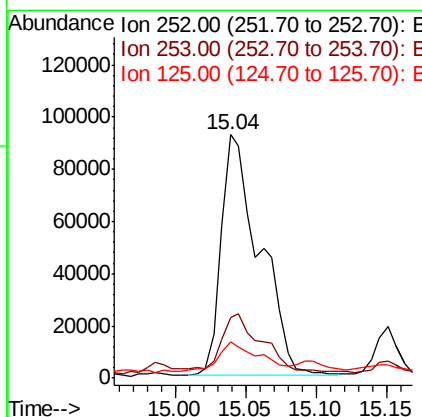
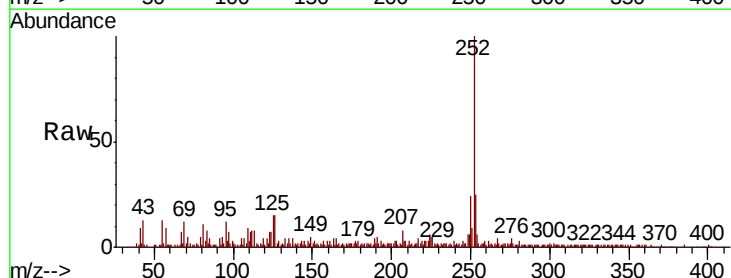
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EL-EAST-OF-JDHS

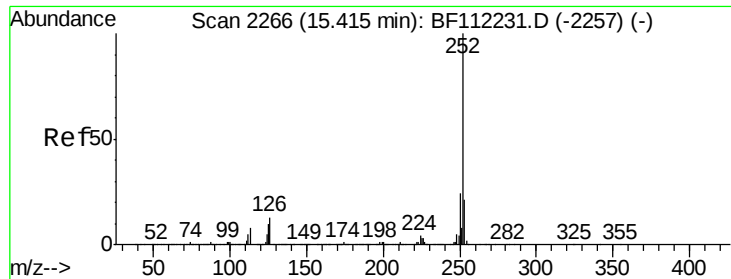
Tgt Ion: 252 Resp: 175863  
 Ion Ratio Lower Upper  
 252 100  
 253 24.7 18.0 27.0  
 125 15.0 8.7 13.1#



#89  
 Benzo(k)fluoranthene  
 Concen: 7.187 ng  
 RT: 15.04 min Scan# 2202  
 Delta R.T. -0.04 min  
 Lab File: BF112286.D  
 Acq: 28 Jan 2019 20:34

Tgt Ion: 252 Resp: 175863  
 Ion Ratio Lower Upper  
 252 100  
 253 24.7 18.0 27.0  
 125 15.0 9.1 13.7#

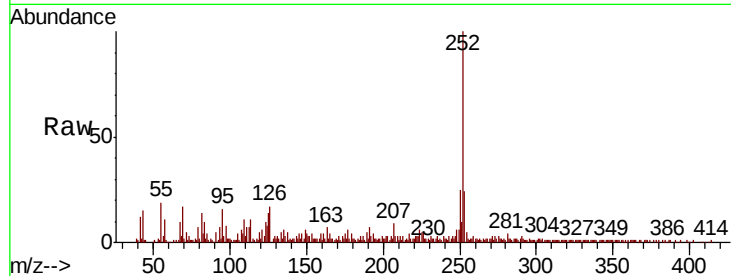




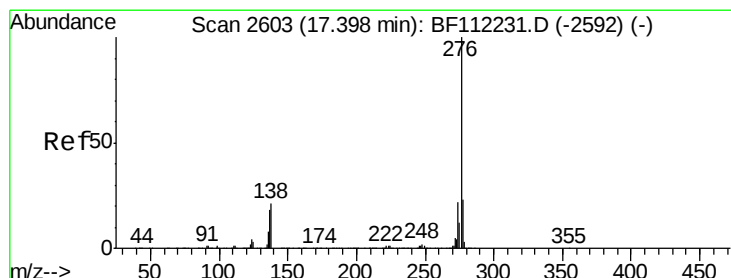
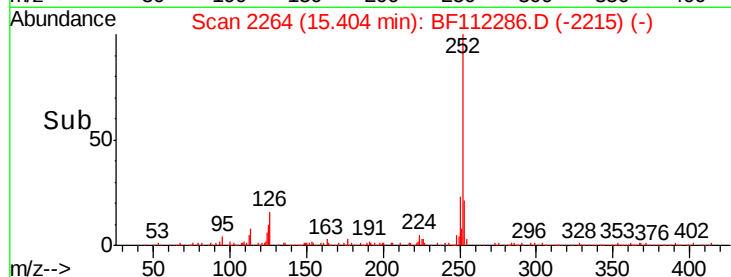
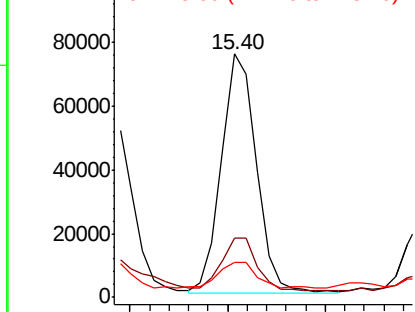
#90  
Benzo(a)pyrene  
Concen: 4.109 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Instrument :  
BNA\_F  
ClientSampleId :  
EL-EAST-OF-JDHS

Tgt Ion:252 Resp: 94443  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.5 26.3  
125 14.3 9.0 13.4#

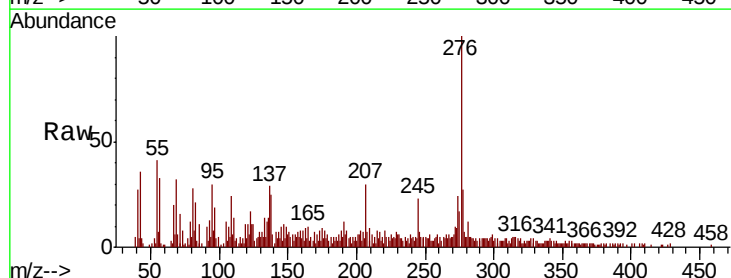


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 2.854 ng  
RT: 17.39 min Scan# 2602  
Delta R.T. -0.01 min  
Lab File: BF112286.D  
Acq: 28 Jan 2019 20:34

Tgt Ion:276 Resp: 49887  
Ion Ratio Lower Upper  
276 100  
277 27.4 19.4 29.0  
138 24.8 19.1 28.7



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

