

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121318\  
 Data File : BE098426.D  
 Acq On : 14 Dec 2018 9:05  
 Operator : SJ/JU  
 Sample : J6335-16  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 14 10:10:01 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

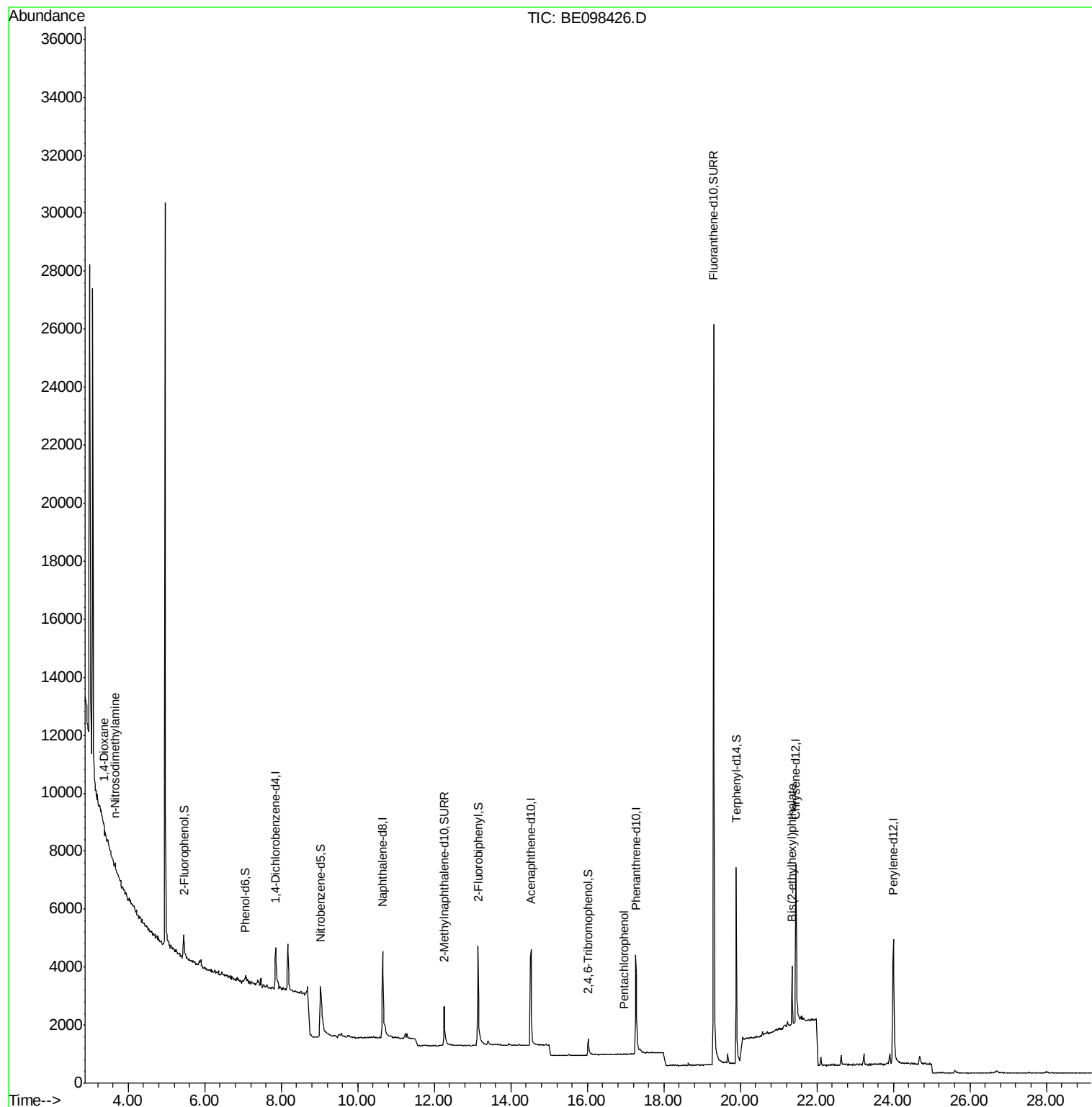
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|--------------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.86  | 152  | 958      | 0.40  | ng    | 0.00           |
| 7) Naphthalene-d8              | 10.65 | 136  | 4246     | 0.40  | ng    | -0.01          |
| 13) Acenaphthene-d10           | 14.53 | 164  | 2703     | 0.40  | ng    | 0.00           |
| 19) Phenanthrene-d10           | 17.27 | 188  | 6534     | 0.40  | ng    | -0.01          |
| 27) Chrysene-d12               | 21.45 | 240  | 8098     | 0.40  | ng    | -0.01          |
| 34) Perylene-d12               | 24.00 | 264  | 7789     | 0.40  | ng    | -0.01          |
| System Monitoring Compounds    |       |      |          |       |       |                |
| 4) 2-Fluorophenol              | 5.45  | 112  | 578      | 0.26  | ng    | 0.00           |
| 5) Phenol-d6                   | 7.06  | 99   | 448      | 0.14  | ng    | 0.00           |
| 8) Nitrobenzene-d5             | 9.03  | 82   | 1465     | 0.38  | ng    | 0.01           |
| 11) 2-Methylnaphthalene-d10    | 12.25 | 152  | 2889     | 0.42  | ng    | -0.01          |
| 14) 2,4,6-Tribromophenol       | 16.02 | 330  | 506      | 0.51  | ng    | 0.00           |
| 15) 2-Fluorobiphenyl           | 13.15 | 172  | 4785     | 0.42  | ng    | 0.00           |
| 25) Fluoranthene-d10           | 19.30 | 212  | 39728    | 0.47  | ng    | 0.00           |
| 29) Terphenyl-d14              | 19.89 | 244  | 6829     | 0.35  | ng    | -0.01          |
| Target Compounds               |       |      |          |       |       |                |
| 2) 1,4-Dioxane                 | 3.37  | 88   | 42       | 0.025 | ng    | Qvalue<br># 12 |
| 3) n-Nitrosodimethylamine      | 3.67  | 42   | 85       | 0.057 | ng    | # 100          |
| 22) Pentachlorophenol          | 16.95 | 266  | 8        | 0.030 | ng    | # 68           |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 2346     | 0.050 | ng    | # 97           |

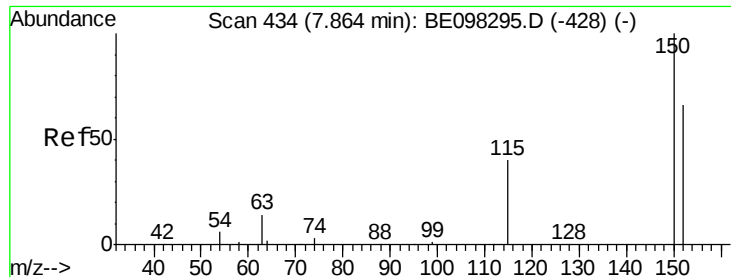
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121318\  
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Sample : J6335-16  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 14 10:10:01 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 10 14:59:55 2018  
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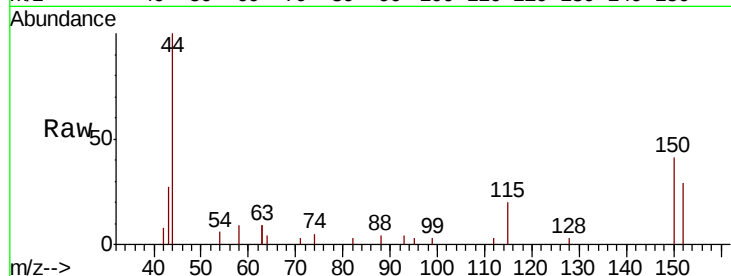


#1

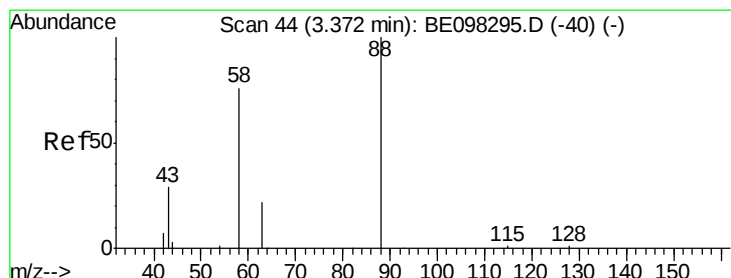
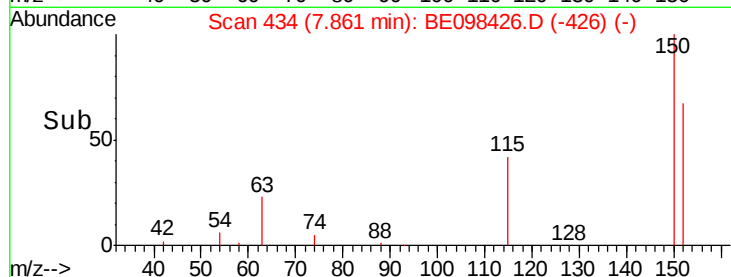
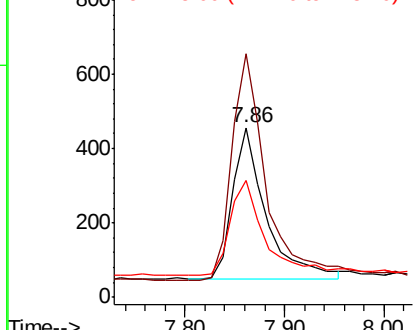
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. -0.00 min  
Lab File: BE098426.D  
Acq: 14 Dec 2018 9:05

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 143.3 | 124.2 | 186.4 |
| 115     | 68.7  | 53.9  | 80.9  |



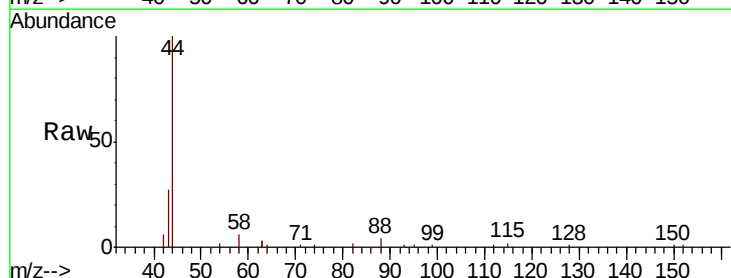
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



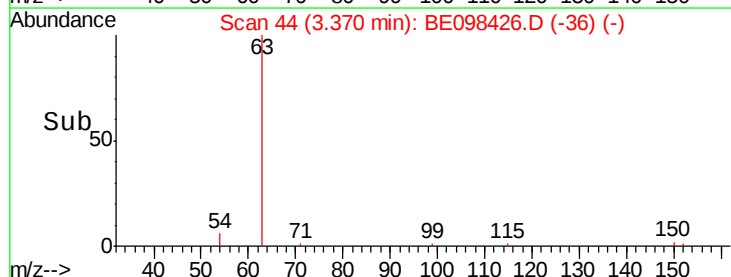
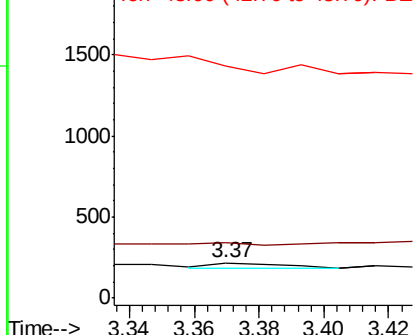
#2

1,4-Dioxane  
Concen: 0.025 ng  
RT: 3.37 min Scan# 44  
Delta R.T. -0.00 min  
Lab File: BE098426.D  
Acq: 14 Dec 2018 9:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 88      | 100   |       |        |
| 58      | 0.0   | 75.0  | 112.6# |
| 43      | 0.0   | 38.3  | 57.5#  |



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0



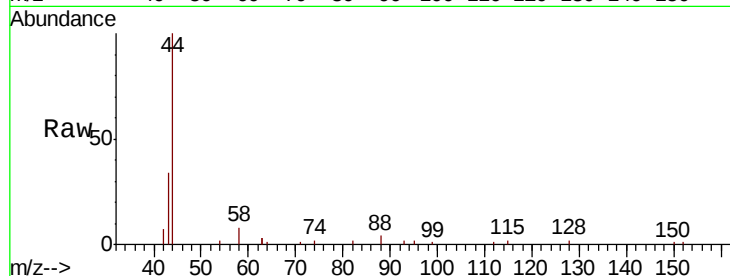


#3

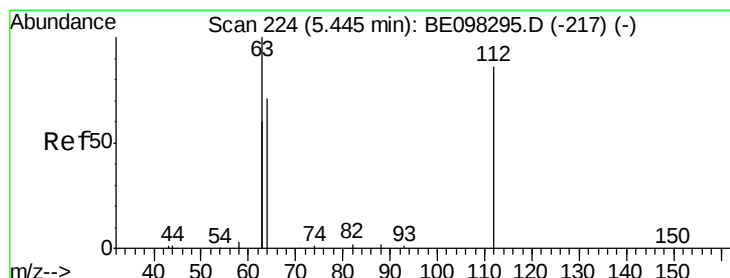
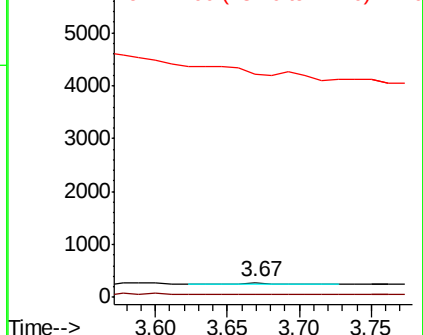
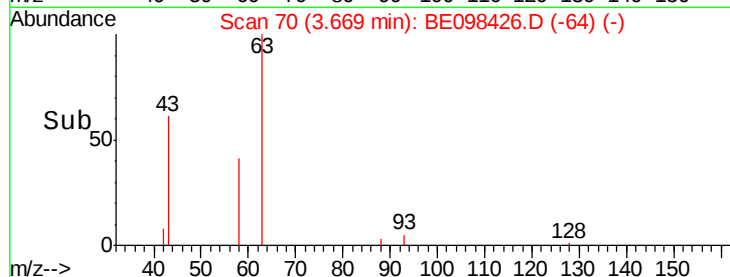
n-Nitrosodimethylamine  
 Concen: 0.057 ng  
 RT: 3.67 min Scan# 70  
 Delta R.T. -0.03 min  
 Lab File: BE098426.D  
 Acq: 14 Dec 2018 9:05

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 12.9  | 0.0   | 0.0#  |
| 44      | 0.0   | 0.0   | 0.0   |



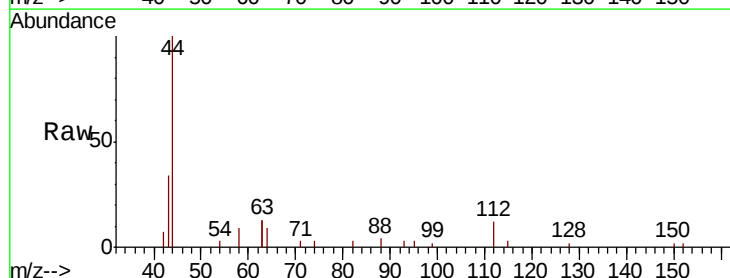
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



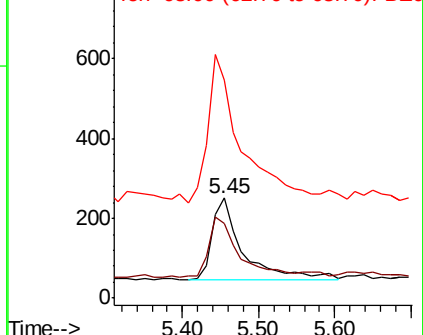
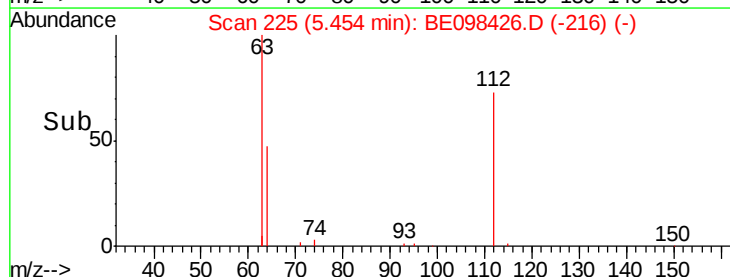
#4

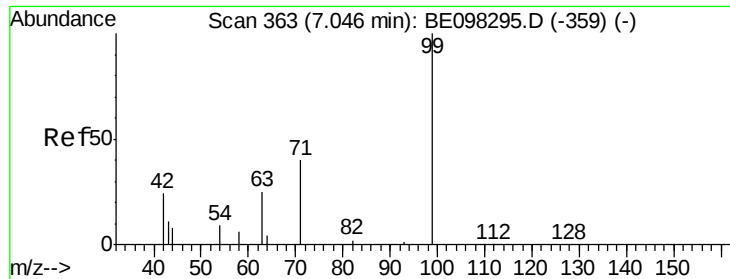
2-Fluorophenol  
 Concen: 0.258 ng  
 RT: 5.45 min Scan# 225  
 Delta R.T. 0.01 min  
 Lab File: BE098426.D  
 Acq: 14 Dec 2018 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.6  | 59.8  | 89.8  |
| 63      | 182.0 | 133.7 | 200.5 |



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BE0  
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.141 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098426.D

Acq: 14 Dec 2018 9:05

Instrument :

BNA\_F

ClientSampleId :

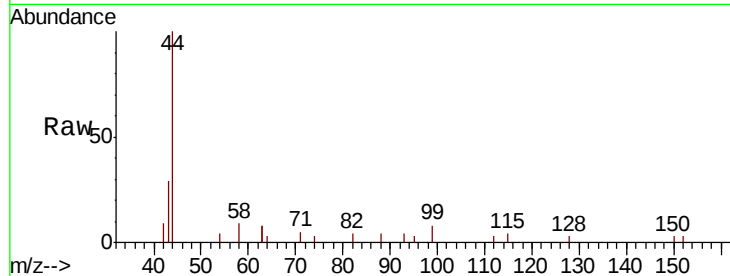
Tot Ion: 99 Resp: 448

Ion Ratio Lower Upper

99 100

42 25.2 26.3 39.5#

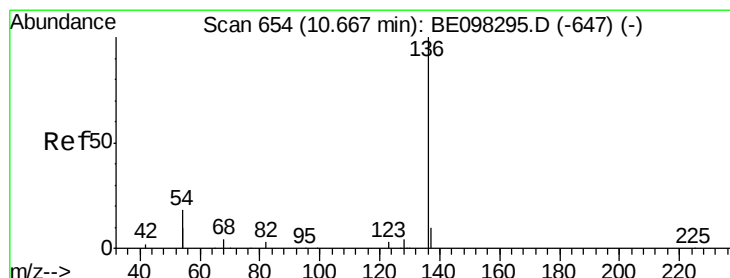
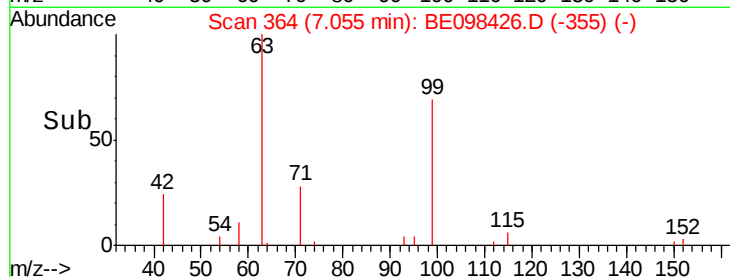
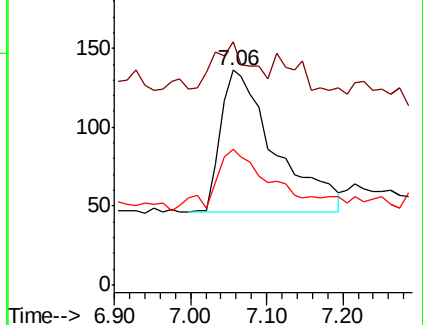
71 44.6 33.6 50.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098426.D

Acq: 14 Dec 2018 9:05

Tgt Ion: 136 Resp: 4246

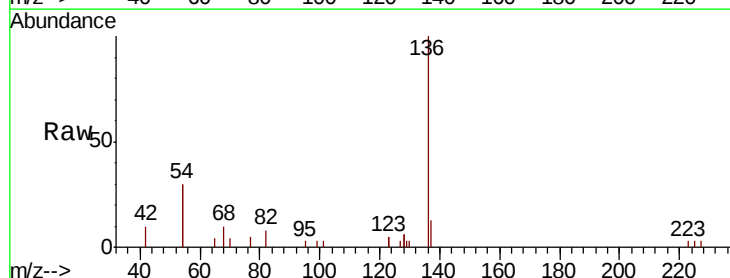
Ion Ratio Lower Upper

136 100

137 12.9 9.2 13.8

54 60.6 28.4 42.6#

68 9.6 5.4 8.0#

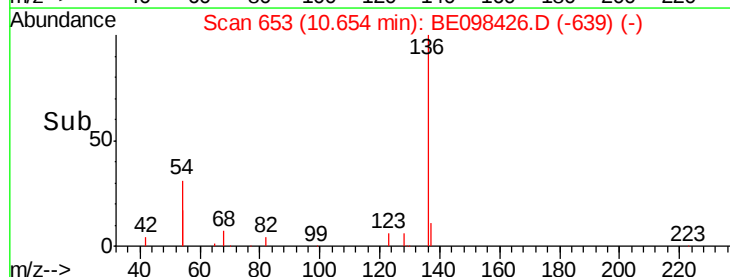
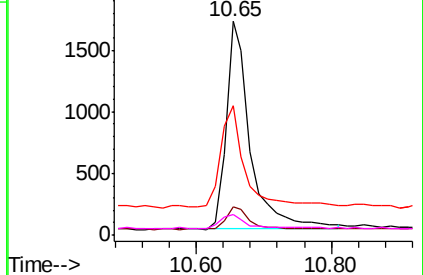


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

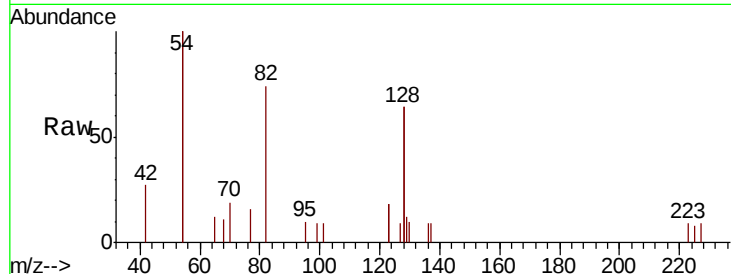




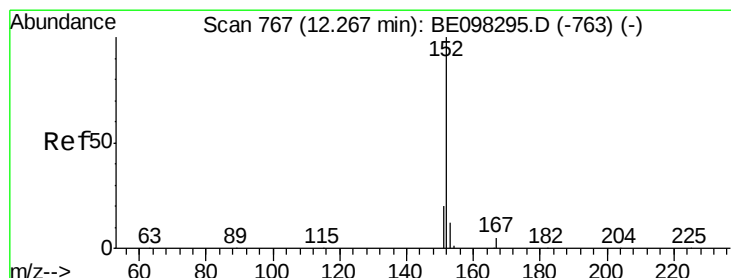
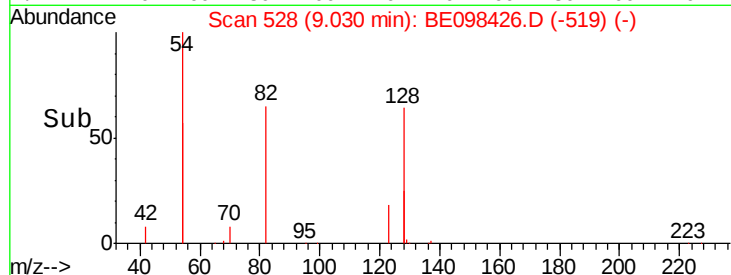
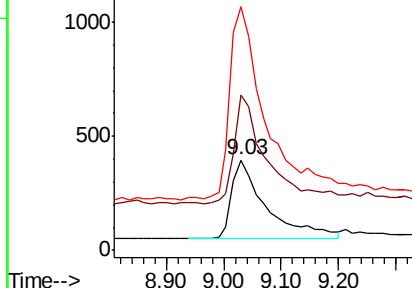
#8  
 Nitrobenzene-d5  
 Concen: 0.379 ng  
 RT: 9.03 min Scan# 528  
 Delta R.T. 0.01 min  
 Lab File: BE098426.D  
 Acq: 14 Dec 2018 9:05

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion   | 82    | Resp  | 1465   |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 171.8 | 102.4 | 153.6# |
| 54        | 269.0 | 221.8 | 332.8  |

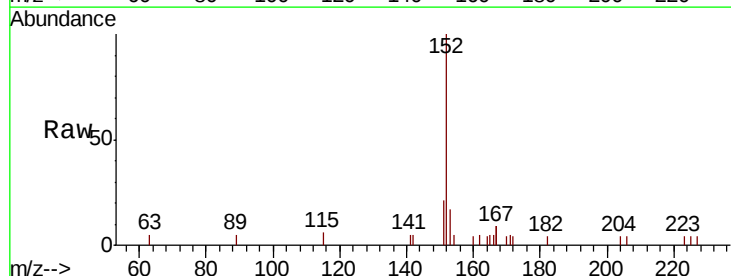


Abundance Ion 82.00 (81.70 to 82.70): BE0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BE0

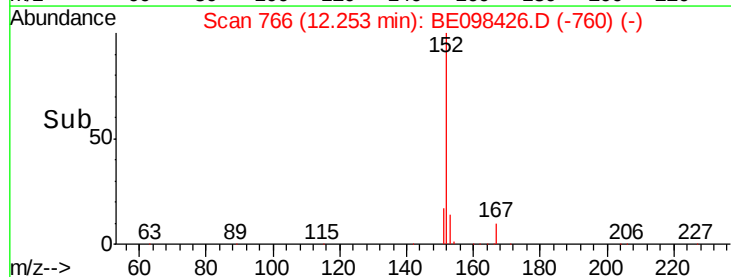
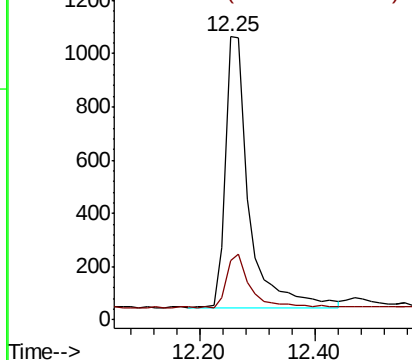


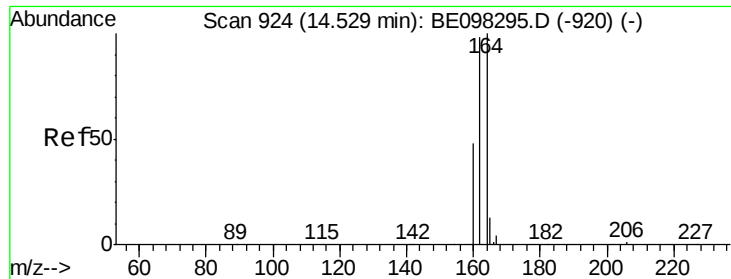
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.418 ng  
 RT: 12.25 min Scan# 766  
 Delta R.T. -0.01 min  
 Lab File: BE098426.D  
 Acq: 14 Dec 2018 9:05

| Tgt Ion   | 152   | Resp  | 2889 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.7  | 16.2  | 24.4 |



Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 151.00 (150.70 to 151.70): E

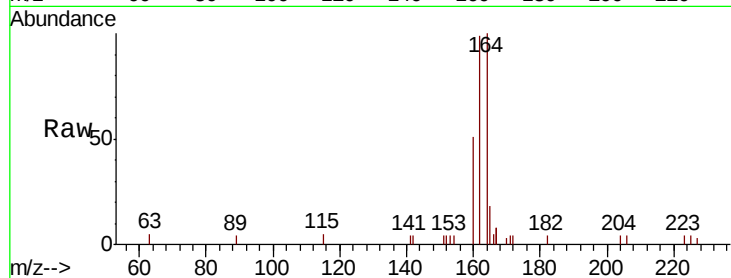




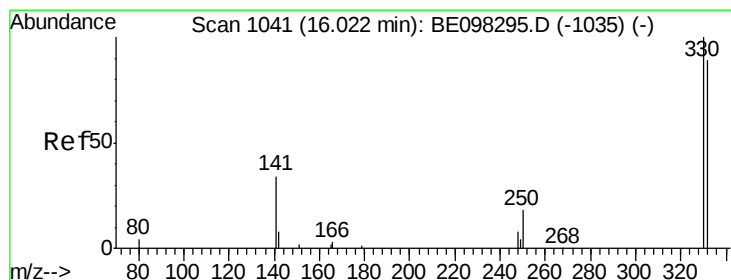
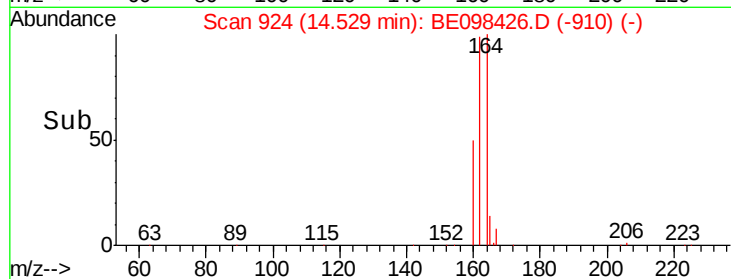
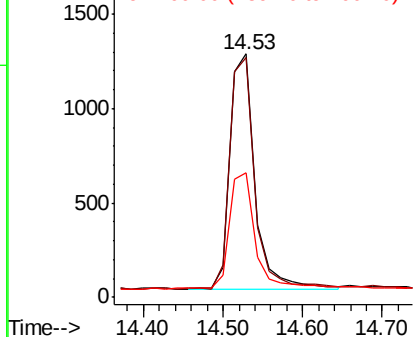
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: BE098426.D  
Acq: 14 Dec 2018 9:05

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 2703  
Ion Ratio Lower Upper  
164 100  
162 98.7 77.6 116.4  
160 51.4 36.0 54.0

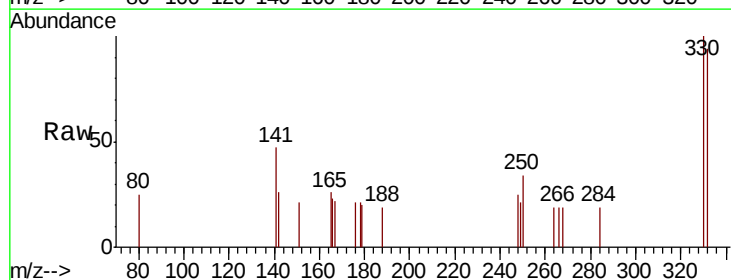


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

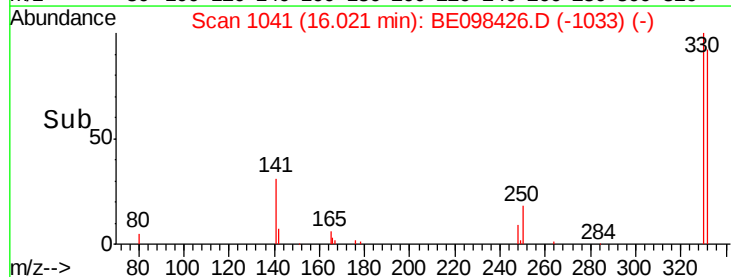
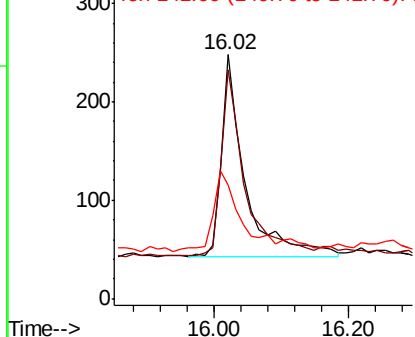


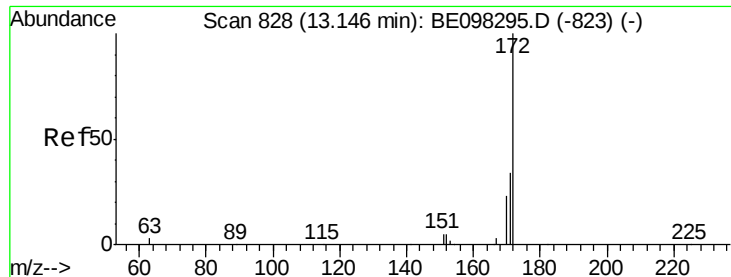
#14  
2,4,6-Tribromophenol  
Concen: 0.510 ng  
RT: 16.02 min Scan# 1041  
Delta R.T. -0.00 min  
Lab File: BE098426.D  
Acq: 14 Dec 2018 9:05

Tgt Ion:330 Resp: 506  
Ion Ratio Lower Upper  
330 100  
332 90.3 76.2 114.4  
141 41.1 39.0 58.4



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

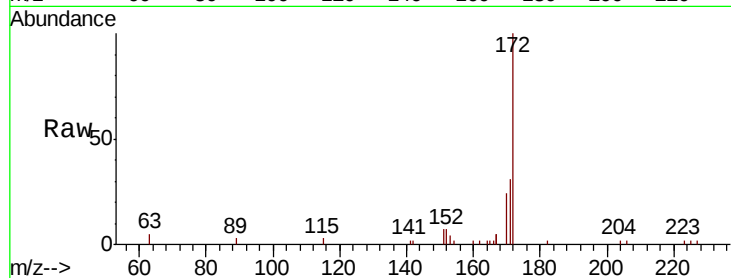




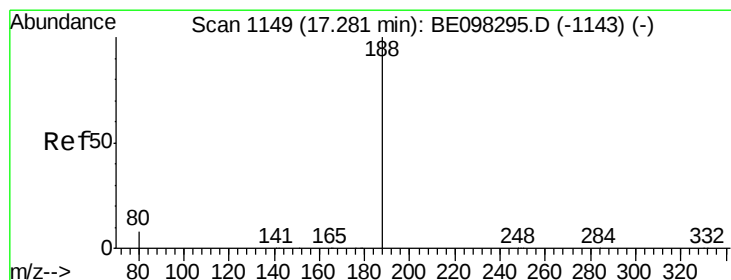
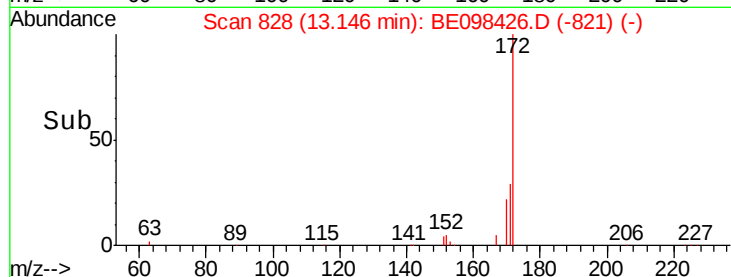
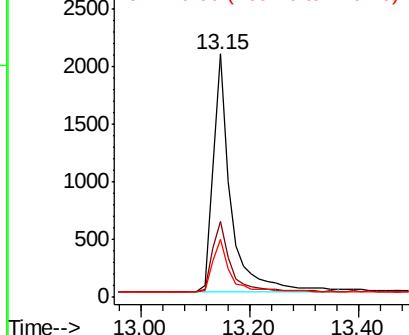
#15  
2-Fluorobiphenyl  
Concen: 0.420 ng  
RT: 13.15 min Scan# 828  
Delta R.T. 0.00 min  
Lab File: BE098426.D  
Acq: 14 Dec 2018 9:05

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 4785  
Ion Ratio Lower Upper  
172 100  
171 31.0 27.5 41.3  
170 23.7 19.6 29.4

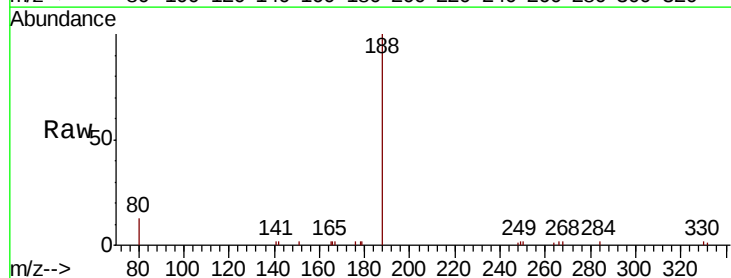


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

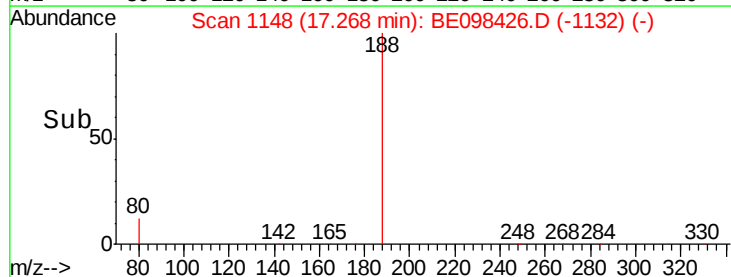
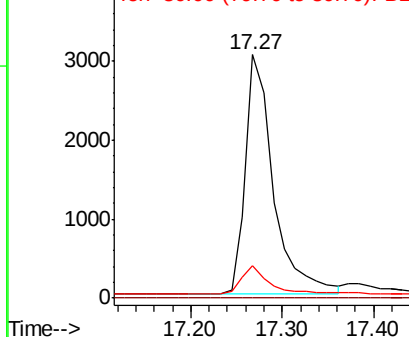


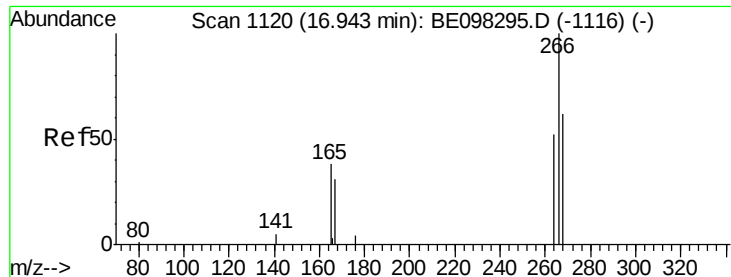
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1148  
Delta R.T. -0.01 min  
Lab File: BE098426.D  
Acq: 14 Dec 2018 9:05

Tgt Ion:188 Resp: 6534  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.1 7.2 10.8#



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

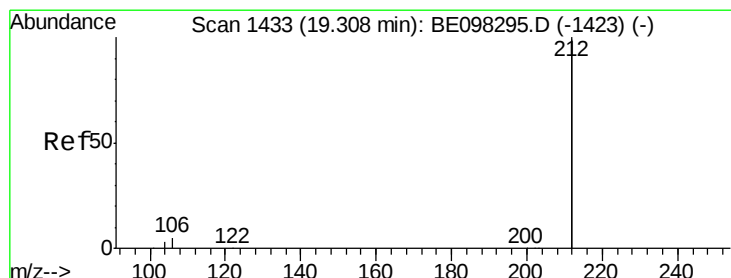
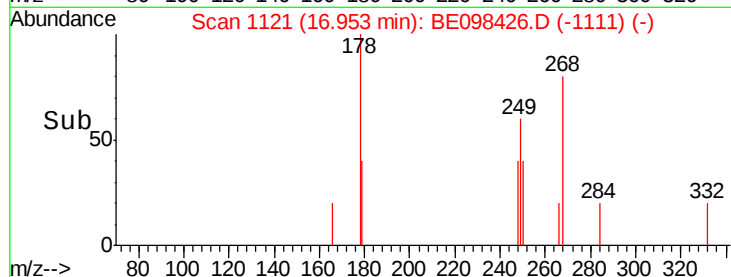
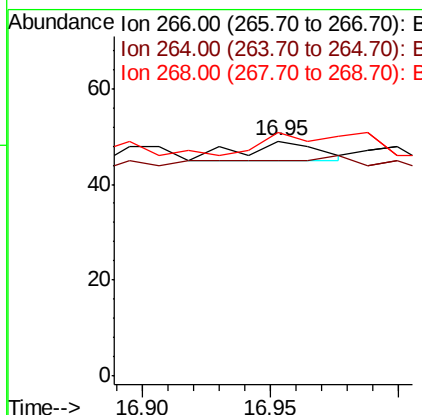
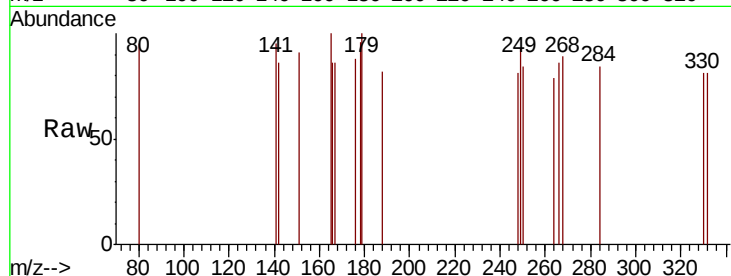




#22  
 Pentachlorophenol  
 Concen: 0.030 ng  
 RT: 16.95 min Scan# 1121  
 Delta R.T. 0.01 min  
 Lab File: BE098426.D  
 Acq: 14 Dec 2018 9:05

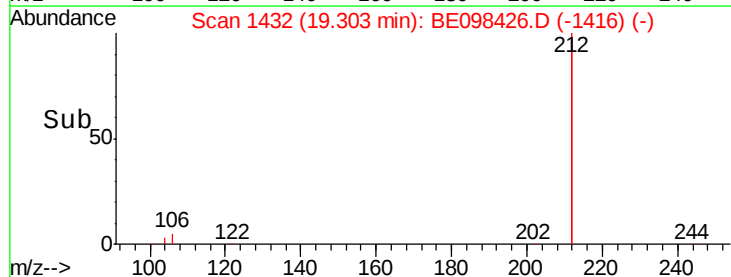
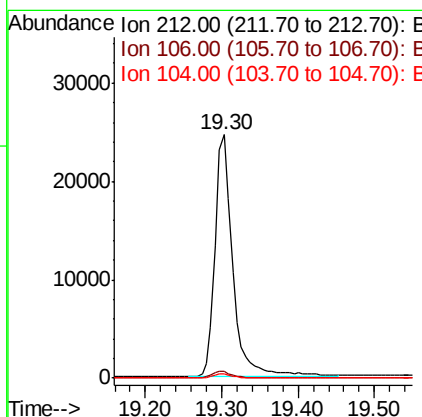
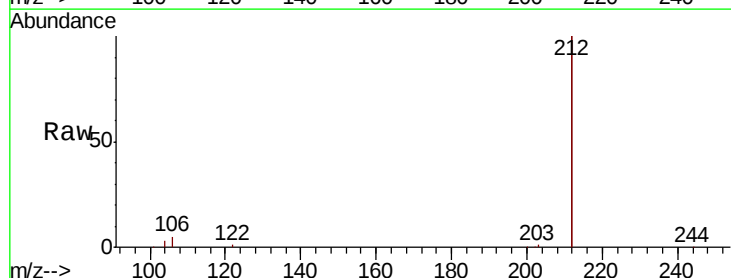
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:266 Resp: 8  
 Ion Ratio Lower Upper  
 266 100  
 264 91.8 59.0 88.4#  
 268 104.1 55.1 82.7#



#25  
 Fluoranthene-d10  
 Concen: 0.474 ng  
 RT: 19.30 min Scan# 1432  
 Delta R.T. -0.01 min  
 Lab File: BE098426.D  
 Acq: 14 Dec 2018 9:05

Tgt Ion:212 Resp: 39728  
 Ion Ratio Lower Upper  
 212 100  
 106 2.7 2.2 3.2  
 104 1.5 1.3 1.9





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098426.D

Acq: 14 Dec 2018 9:05

Instrument :

BNA\_F

ClientSampleId :

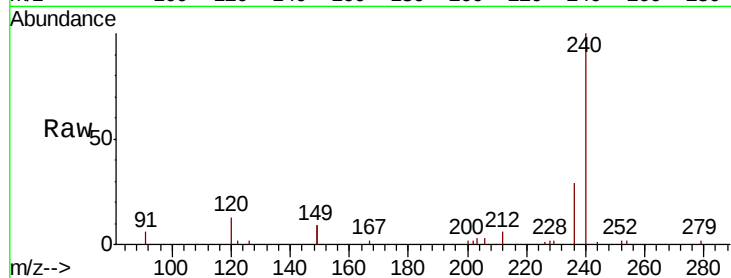
Tot Ion:240 Resp: 8098

Ion Ratio Lower Upper

240 100

120 13.1 9.5 14.3

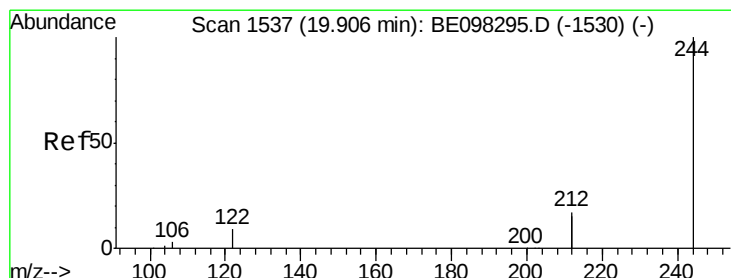
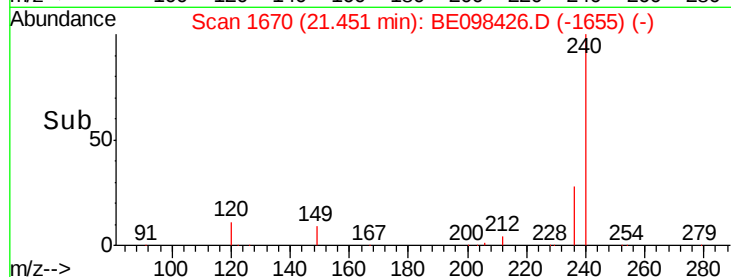
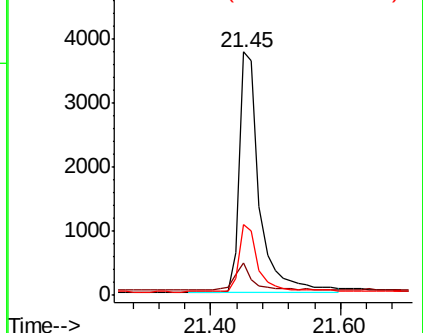
236 29.2 22.7 34.1



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



#29

Terphenyl-d14

Concen: 0.347 ng

RT: 19.89 min Scan# 1535

Delta R.T. -0.01 min

Lab File: BE098426.D

Acq: 14 Dec 2018 9:05

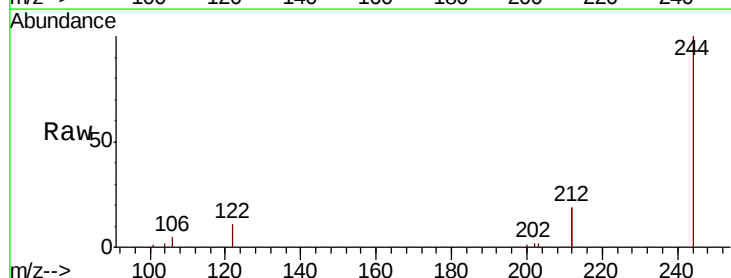
Tgt Ion:244 Resp: 6829

Ion Ratio Lower Upper

244 100

212 38.2 27.4 41.0

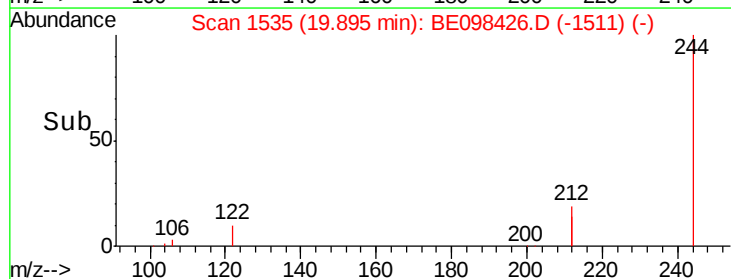
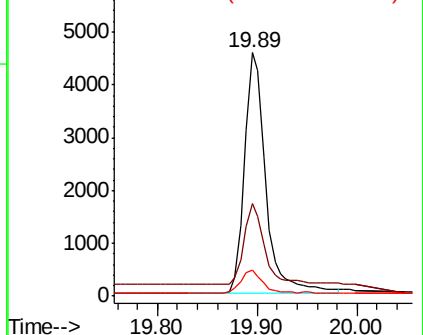
122 10.8 8.3 12.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.050 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098426.D

Acq: 14 Dec 2018 9:05

Instrument :

BNA\_F

ClientSampleId :

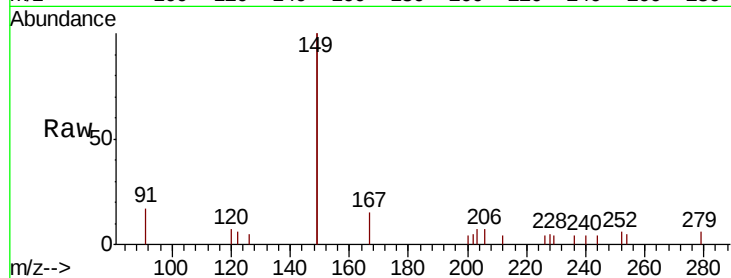
Tot Ion:149 Resp: 2346

Ion Ratio Lower Upper

149 100

167 7.9 5.7 8.5

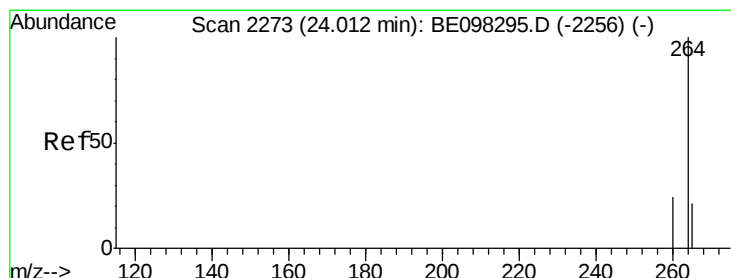
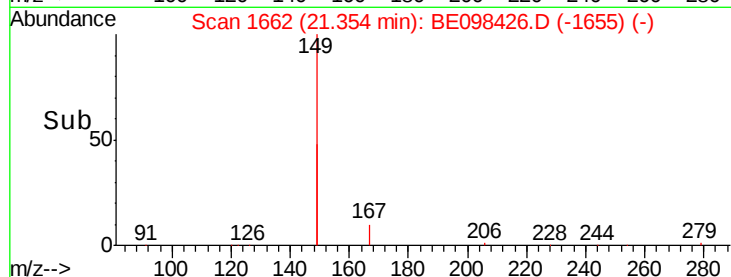
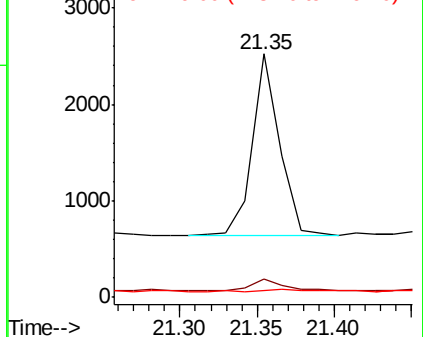
279 2.5 1.0 1.4#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.00 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BE098426.D

Acq: 14 Dec 2018 9:05

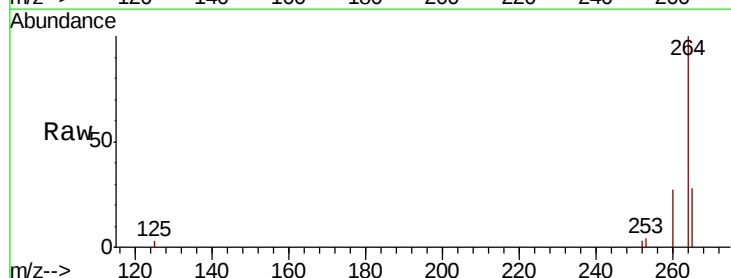
Tgt Ion:264 Resp: 7789

Ion Ratio Lower Upper

264 100

260 26.5 20.2 30.2

265 28.4 25.2 37.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

