

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF080318\  
 Data File : BF107966.D  
 Acq On : 4 Aug 2018 4:33  
 Operator : JU/SJ  
 Sample : J4321-01 10X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP1-NW-IMPACTED-0818

Quant Time: Aug 06 01:01:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 30 17:48:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 61264    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 365252   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 137460   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.50 | 188  | 294005   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 274430   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.70 | 264  | 202571   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 0.00  | 112  | 0        | 0.00 | ng    |          |
| 7) Phenol-d6                | 6.72  | 99   | 376      | 0.08 | ng    | 0.11     |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 901      | 0.14 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.81 | 330  | 2043     | 1.09 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 16834    | 1.71 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 20000    | 1.58 | ng    | 0.00     |

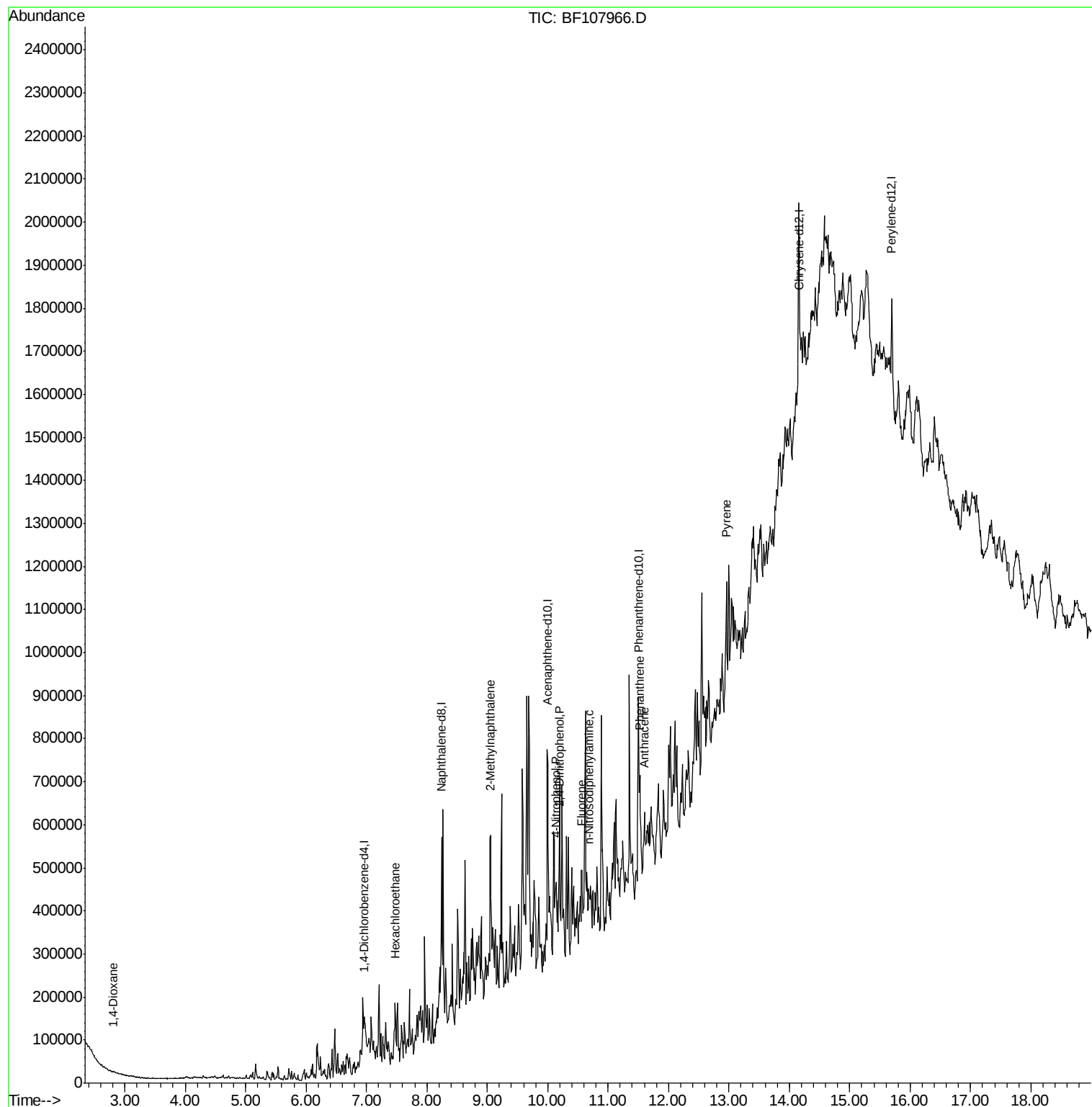
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane             | 2.82  | 88   | 278      | 5.938  | ng    | # 20   |
| 18) Hexachloroethane       | 7.48  | 117  | 7143     | 3.759  | ng    | # 1    |
| 37) 2-Methylnaphthalene    | 9.05  | 142  | 133495   | 12.517 | ng    | 93     |
| 53) 2,4-Dinitrophenol      | 10.21 | 184  | 333      | 8.692  | ng    | # 1    |
| 55) 4-Nitrophenol          | 10.14 | 139  | 2682     | 11.094 | ng    | # 43   |
| 57) Fluorene               | 10.55 | 166  | 20861    | 2.044  | ng    | # 86   |
| 65) n-Nitrosodiphenylamine | 10.69 | 169  | 21174    | 2.187  | ng    | # 51   |
| 70) Phenanthrene           | 11.52 | 178  | 104178   | 7.462  | ng    | # 93   |
| 71) Anthracene             | 11.60 | 178  | 37381    | 2.321  | ng    | # 1    |
| 77) Pyrene                 | 12.95 | 202  | 58820    | 2.977  | ng    | # 76   |

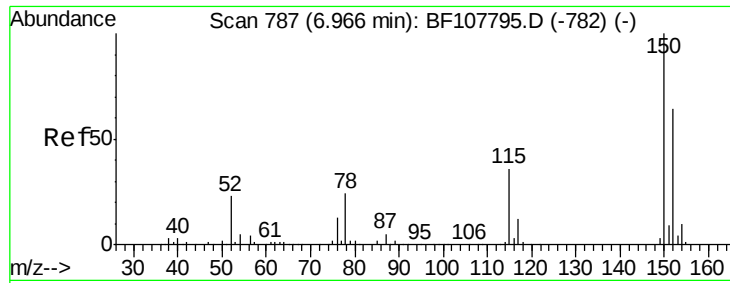
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 30 17:48:53 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.96 min Scan# 786

Delta R.T. -0.01 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

Instrument :

BNA\_F

ClientSampleId :

EP1-NW-IMPACTED-0818

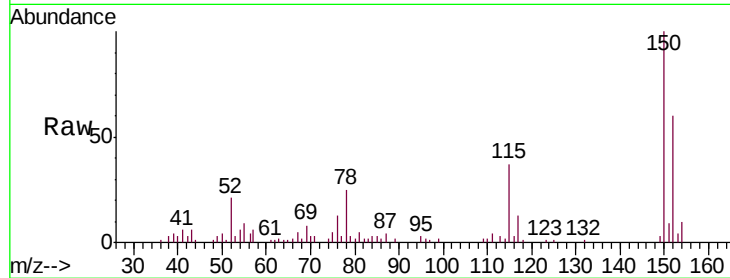
Tgt Ion:152 Resp: 61264

Ion Ratio Lower Upper

152 100

150 166.9 124.6 186.8

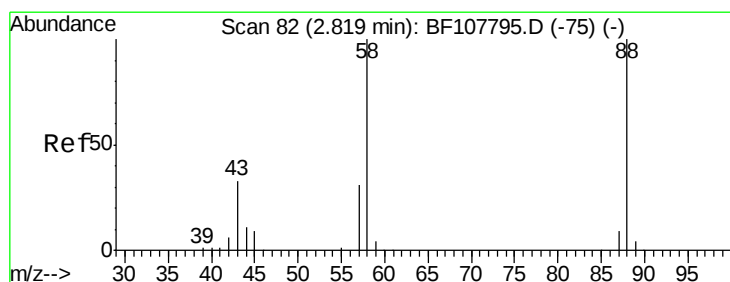
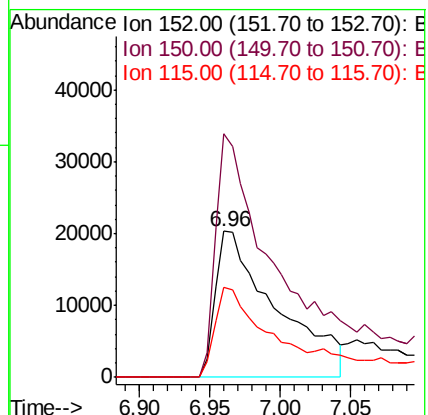
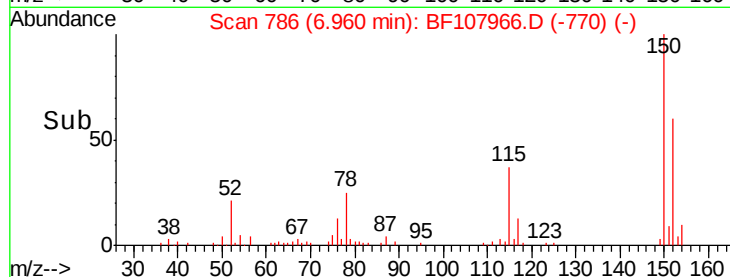
115 61.8 50.1 75.1



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: 5.938 ng

RT: 2.82 min Scan# 82

Delta R.T. 0.00 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

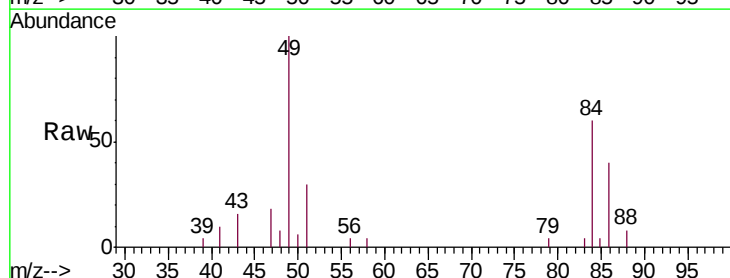
Tgt Ion: 88 Resp: 278

Ion Ratio Lower Upper

88 100

58 0.0 62.6 93.8#

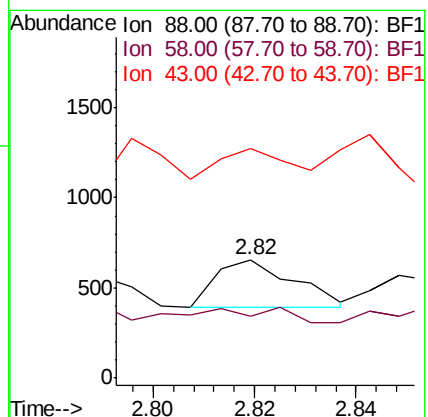
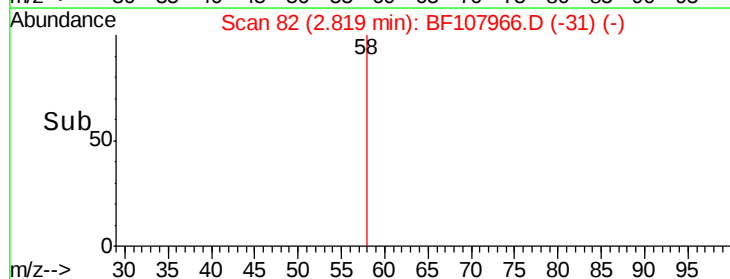
43 0.0 24.6 37.0#

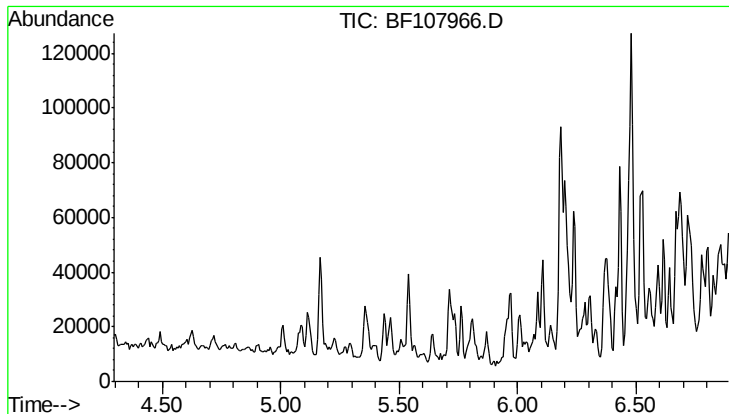


Abundance Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1

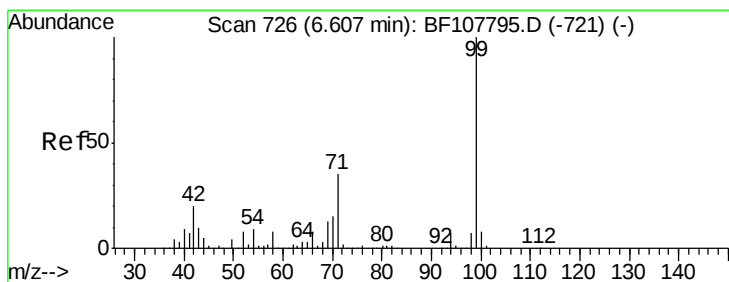
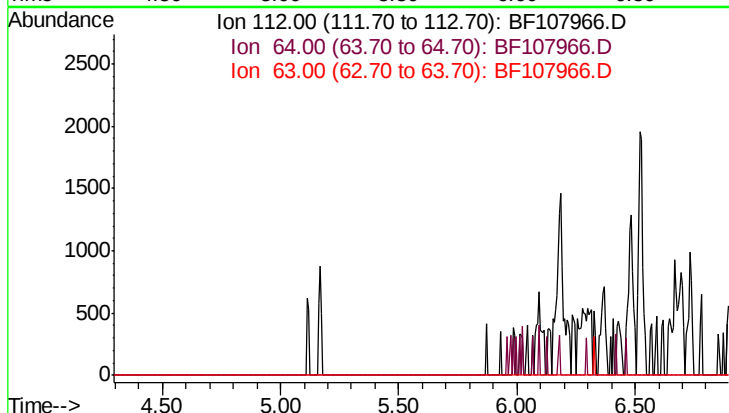




#5  
 2-Fluorophenol  
 Concen: 0.000 ng  
 Expected RT: 5.59 min  
 Lab File: BF107966.D  
 Acq: 4 Aug 2018 4:33

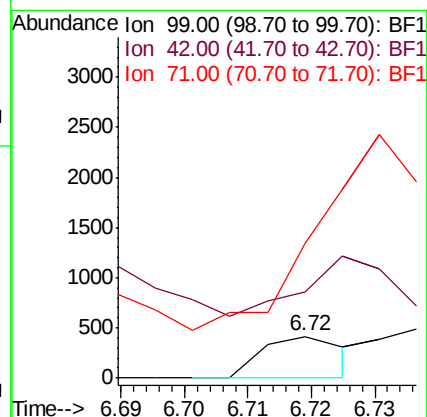
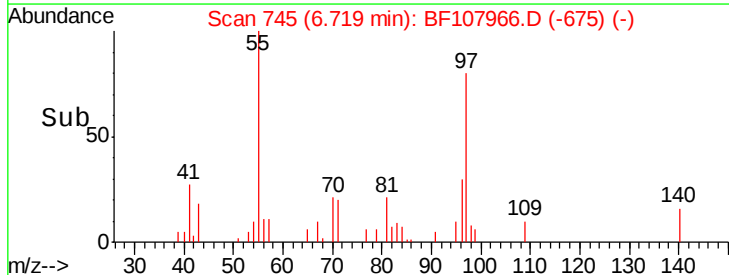
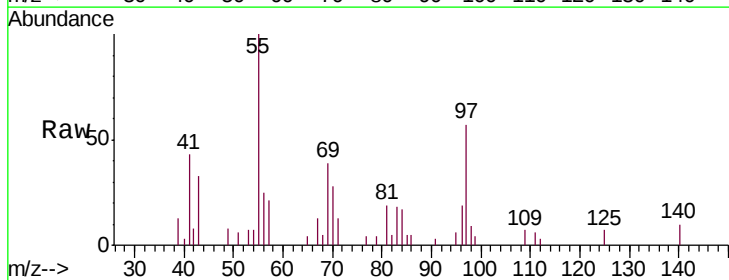
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP1-NW-IMPACTED-0818

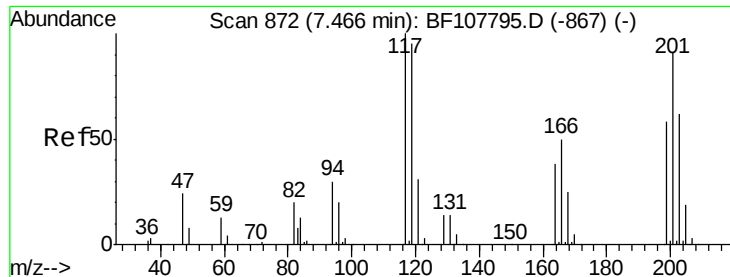
Tgt Ion: 112  
 Sig Exp Ratio  
 112 100  
 64 59.9  
 63 29.6



#7  
 Phenol-d6  
 Concen: 0.079 ng  
 RT: 6.72 min Scan# 745  
 Delta R.T. 0.11 min  
 Lab File: BF107966.D  
 Acq: 4 Aug 2018 4:33

Tgt Ion: 99 Resp: 376  
 Ion Ratio Lower Upper  
 99 100  
 42 207.2 14.5 21.7#  
 71 321.6 25.4 38.0#

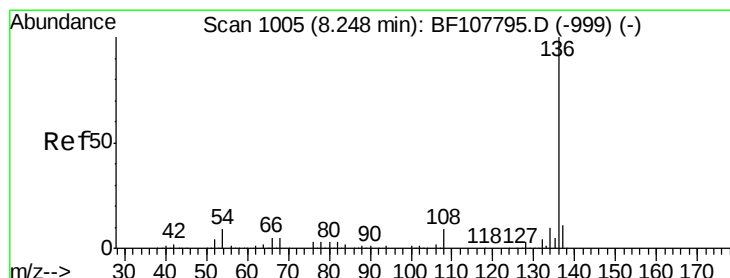
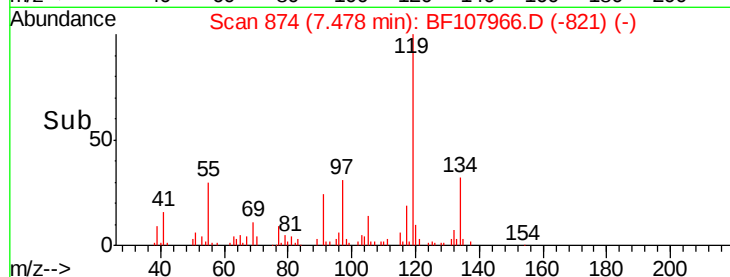
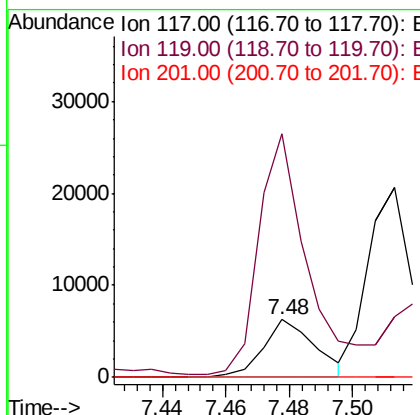
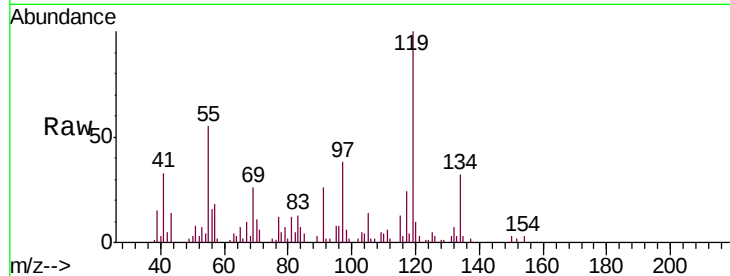




#18  
Hexachloroethane  
Concen: 3.759 ng  
RT: 7.48 min Scan# 874  
Delta R.T. 0.01 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

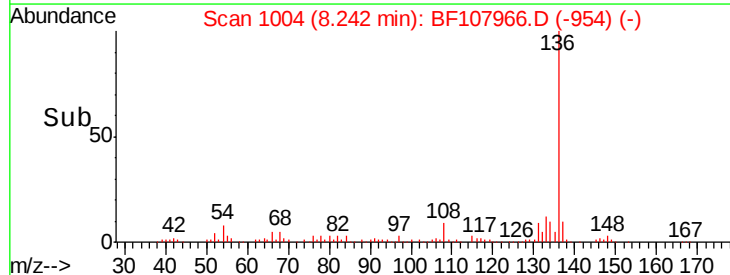
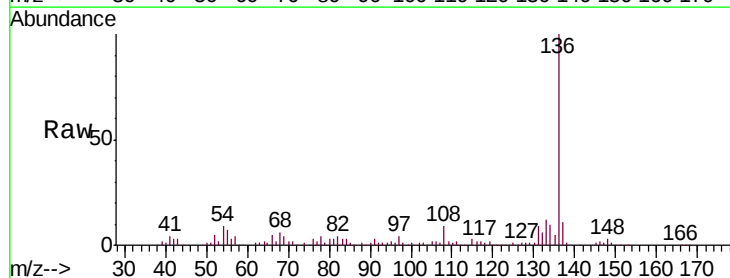
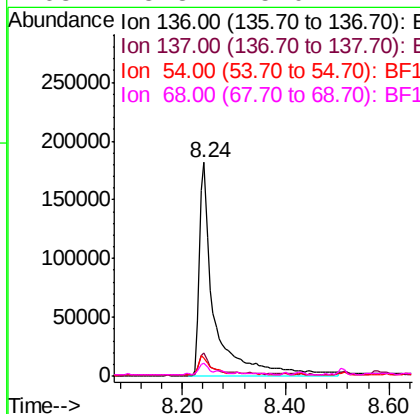
Instrument :  
BNA\_F  
ClientSampleId :  
EP1-NW-IMPACTED-0818

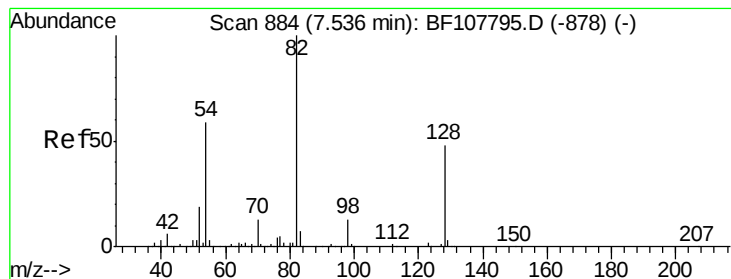
Tgt Ion:117 Resp: 7143  
Ion Ratio Lower Upper  
117 100  
119 422.7 75.8 113.8#  
201 0.0 75.7 113.5#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1004  
Delta R.T. -0.01 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

Tgt Ion:136 Resp: 365252  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.9 13.3  
54 8.7 6.6 9.8  
68 5.8 5.0 7.4





#23

Nitrobenzene-d5

Concen: 0.142 ng

RT: 7.54 min Scan# 885

Delta R.T. 0.01 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

Instrument :

BNA\_F

ClientSampleId :

EP1-NW-IMPACTED-0818

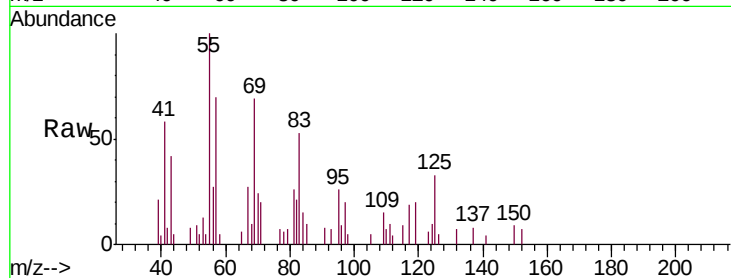
Tgt Ion: 82 Resp: 901

Ion Ratio Lower Upper

82 100

128 0.0 36.1 54.1#

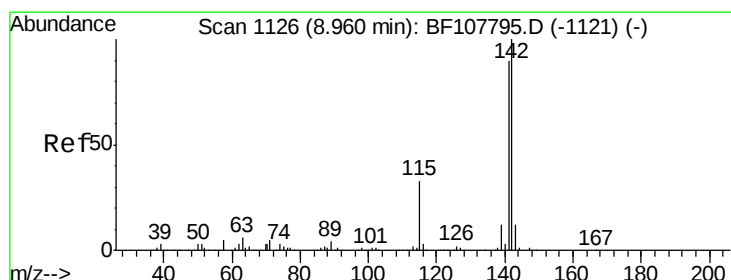
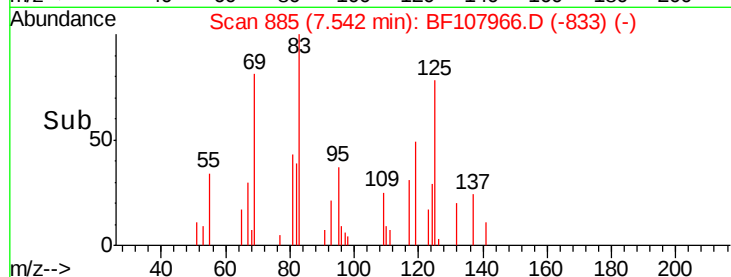
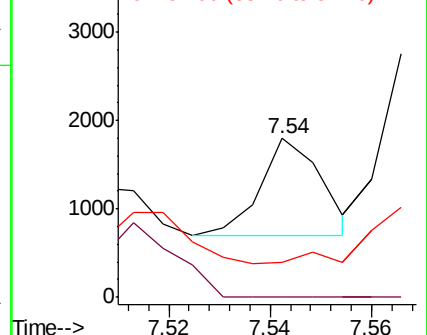
54 22.4 41.4 62.2#



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



#37

2-Methylnaphthalene

Concen: 12.517 ng

RT: 9.05 min Scan# 1142

Delta R.T. 0.09 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

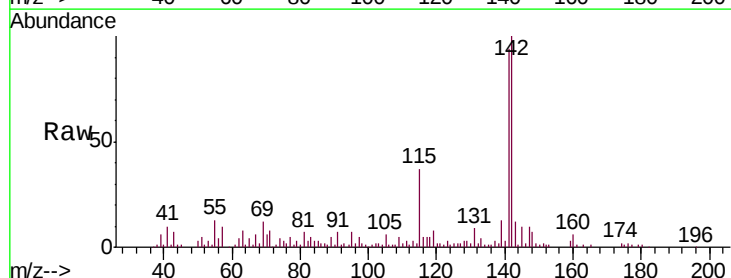
Tgt Ion: 142 Resp: 133495

Ion Ratio Lower Upper

142 100

141 93.9 70.8 106.2

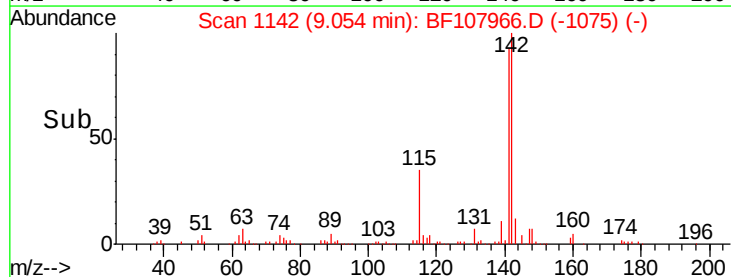
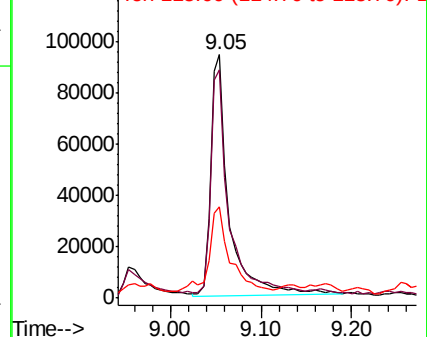
115 37.3 26.1 39.1

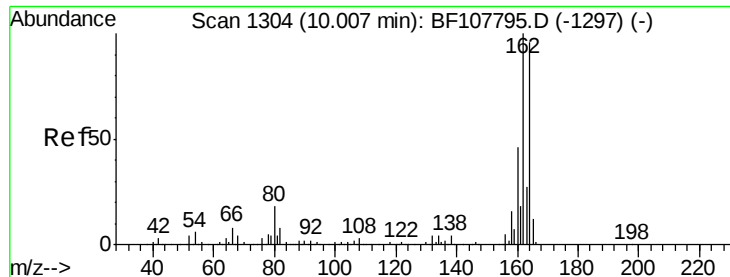


Abundance Ion 142.00 (141.70 to 142.70): BF1

Ion 141.00 (140.70 to 141.70): BF1

Ion 115.00 (114.70 to 115.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

Instrument :

BNA\_F

ClientSampleId :

EP1-NW-IMPACTED-0818

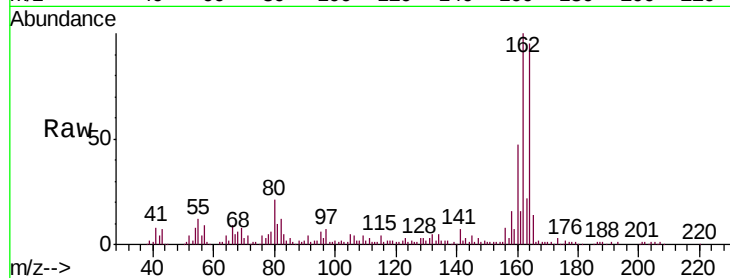
Tgt Ion:164 Resp: 137460

Ion Ratio Lower Upper

164 100

162 105.2 86.1 129.1

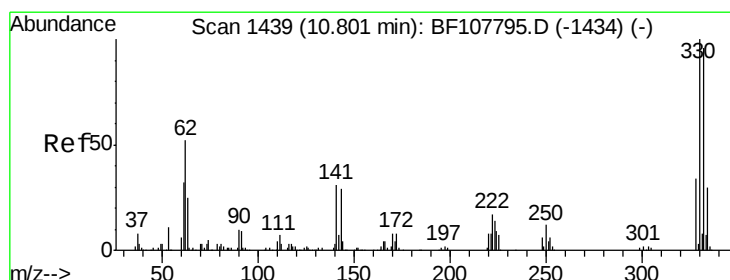
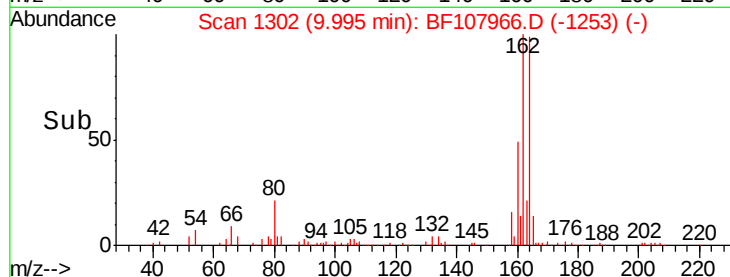
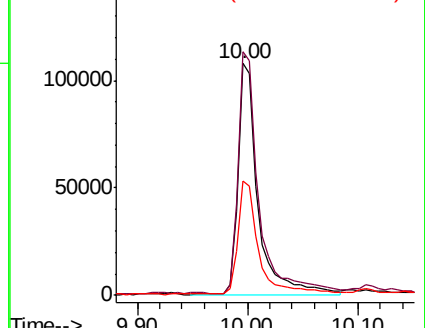
160 49.3 38.3 57.5



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: 1.094 ng

RT: 10.81 min Scan# 1440

Delta R.T. 0.01 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

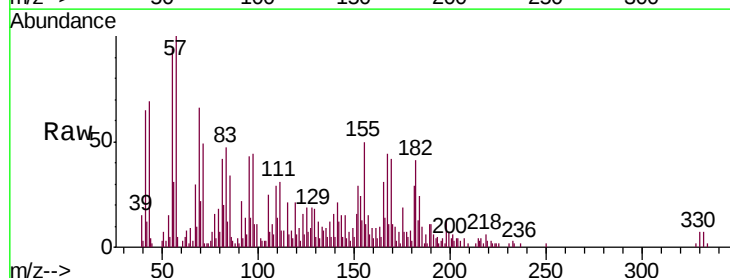
Tgt Ion:330 Resp: 2043

Ion Ratio Lower Upper

330 100

332 117.8 77.0 115.6#

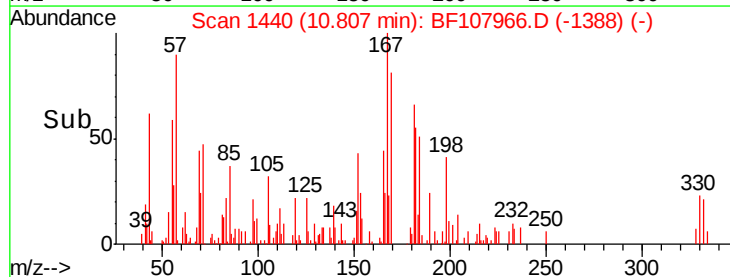
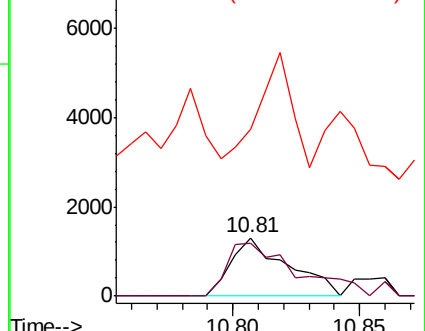
141 115.7 29.9 44.9#

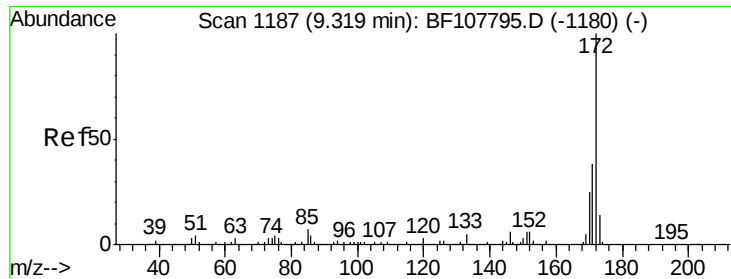


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

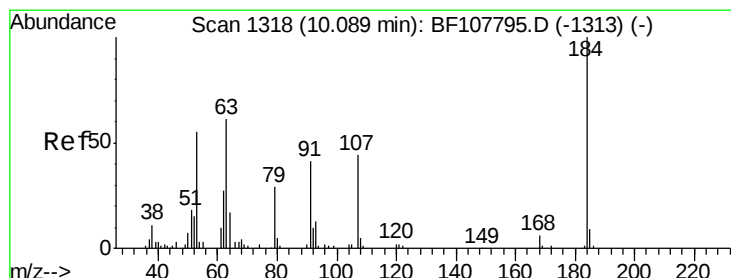
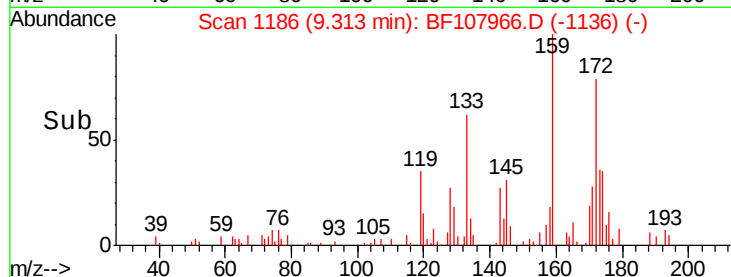
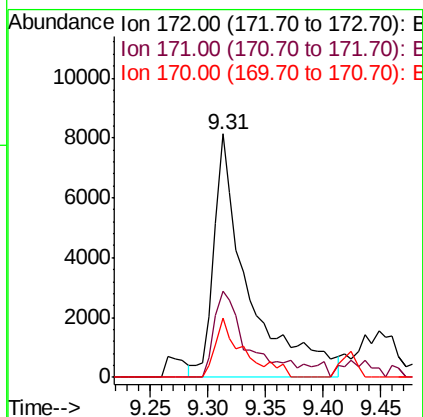
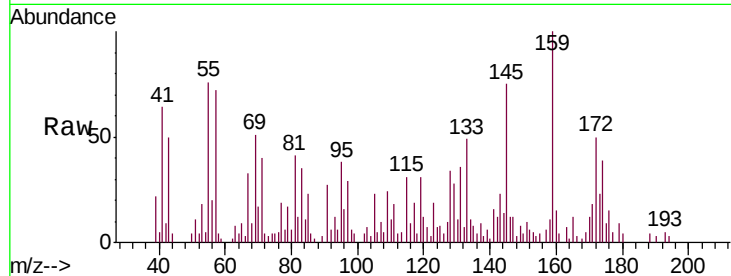




#44  
2-Fluorobiphenyl  
Concen: 1.707 ng  
RT: 9.31 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

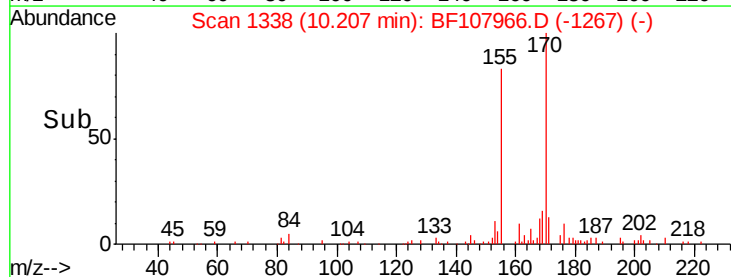
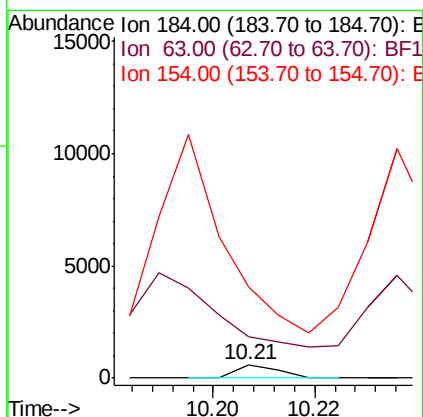
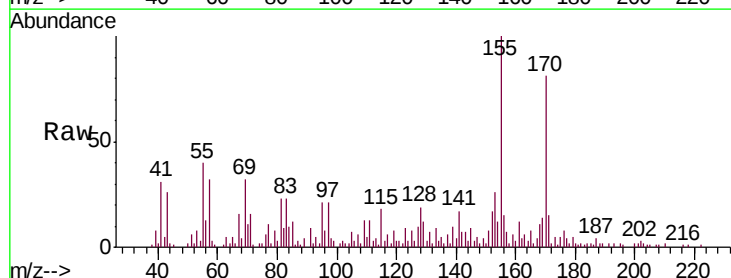
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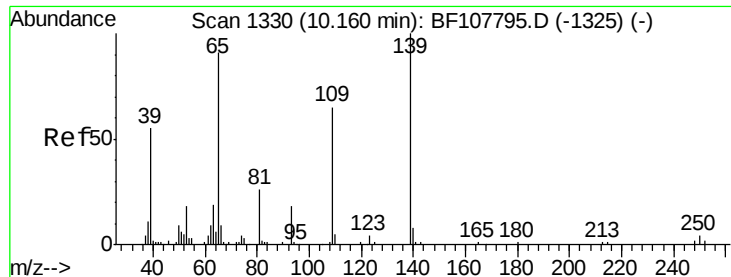
Tgt Ion:172 Resp: 16834  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.7 44.5  
170 24.6 19.6 29.4



#53  
2,4-Dinitrophenol  
Concen: 8.692 ng  
RT: 10.21 min Scan# 1338  
Delta R.T. 0.12 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

Tgt Ion:184 Resp: 333  
Ion Ratio Lower Upper  
184 100  
63 303.7 54.2 81.2#  
154 676.6 184.0 276.0#

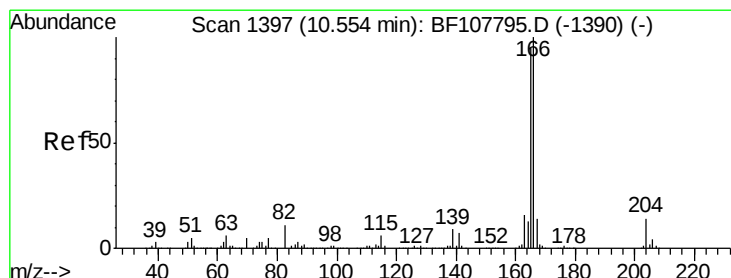
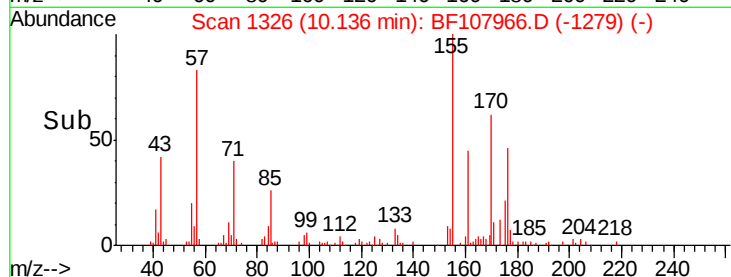
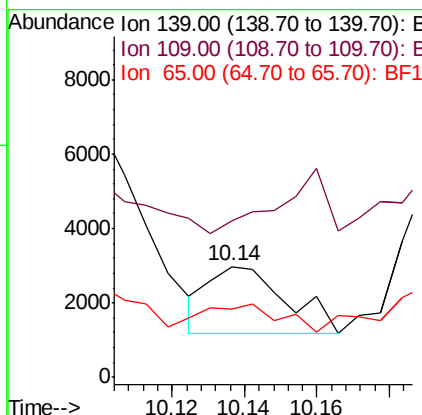
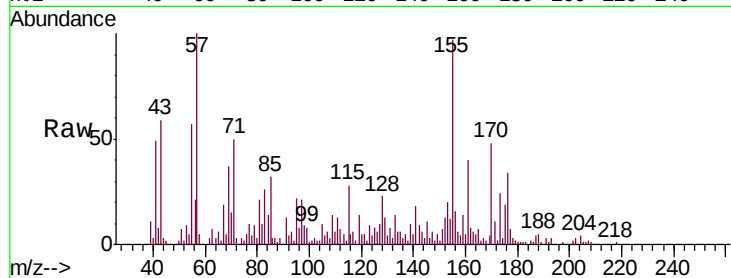




#55  
4-Nitrophenol  
Concen: 11.094 ng  
RT: 10.14 min Scan# 1326  
Delta R.T. -0.02 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

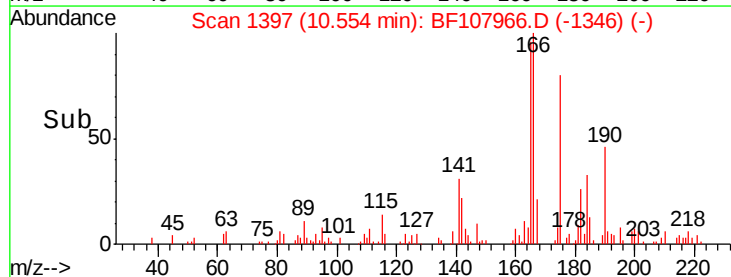
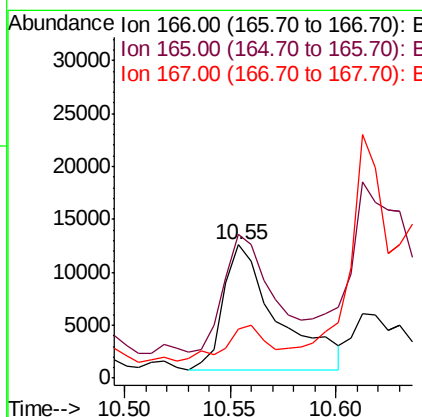
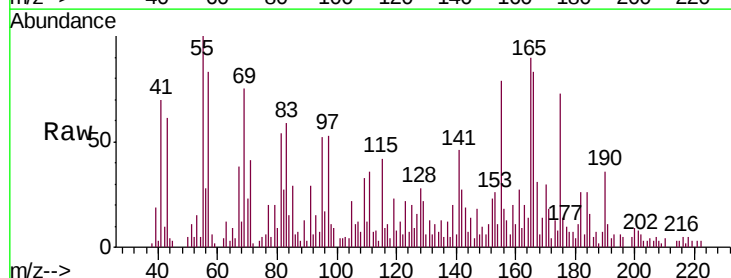
Instrument :  
BNA\_F  
ClientSampleId :  
EP1-NW-IMPACTED-0818

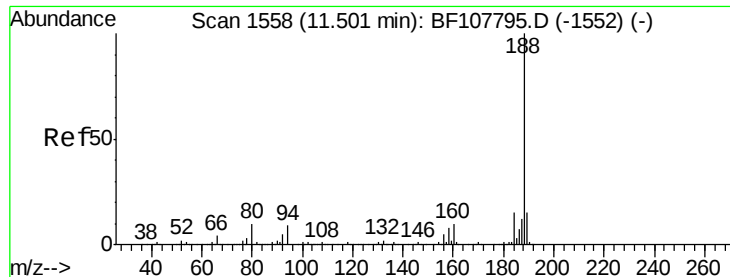
Tgt Ion:139 Resp: 2682  
Ion Ratio Lower Upper  
139 100  
109 141.7 48.4 88.4#  
65 62.0 72.6 112.6#



#57  
Fluorene  
Concen: 2.044 ng  
RT: 10.55 min Scan# 1397  
Delta R.T. 0.00 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

Tgt Ion:166 Resp: 20861  
Ion Ratio Lower Upper  
166 100  
165 107.6 79.8 119.8  
167 37.2 10.6 16.0#

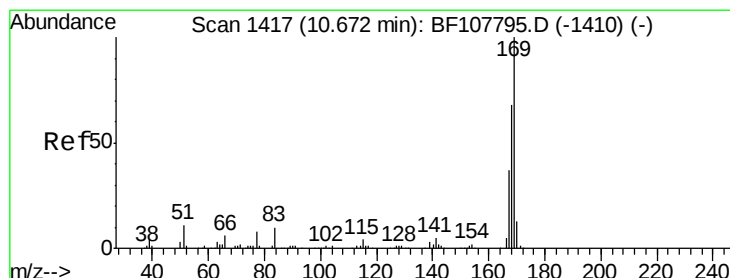
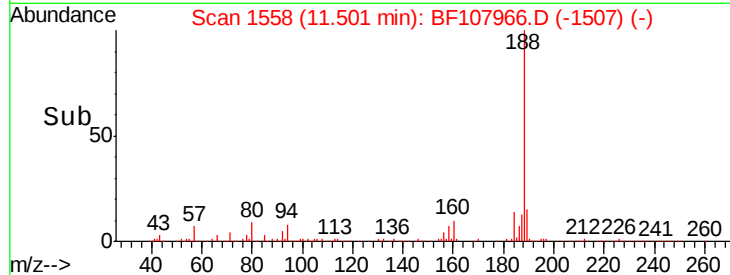
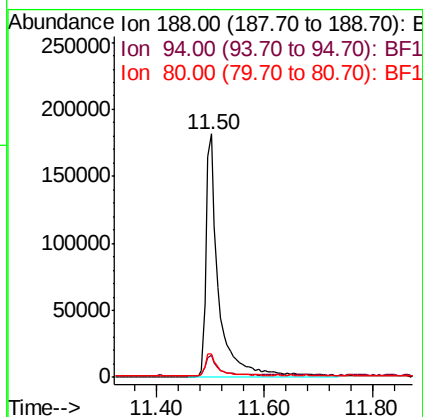
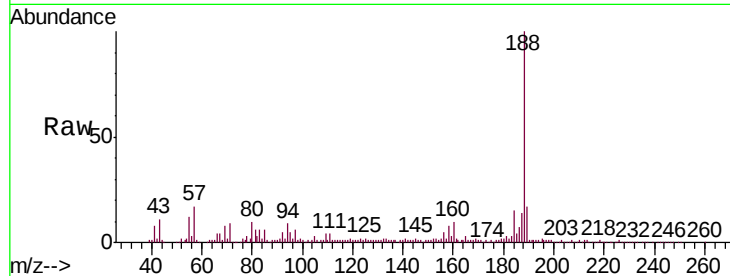




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1558  
Delta R.T. 0.00 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

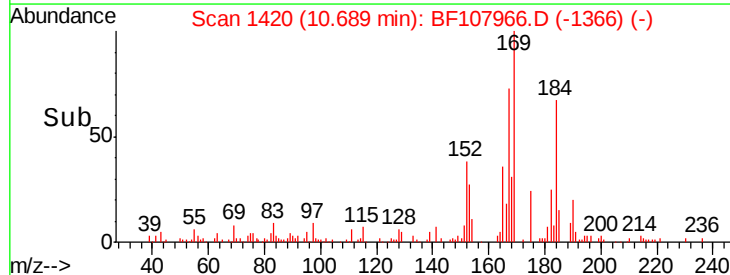
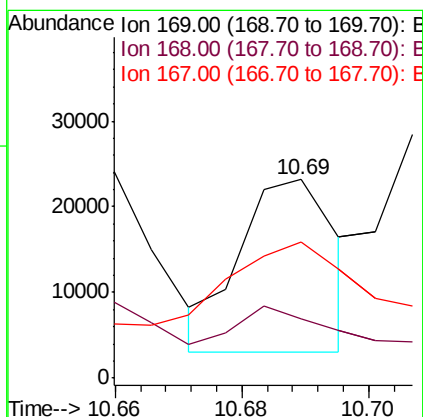
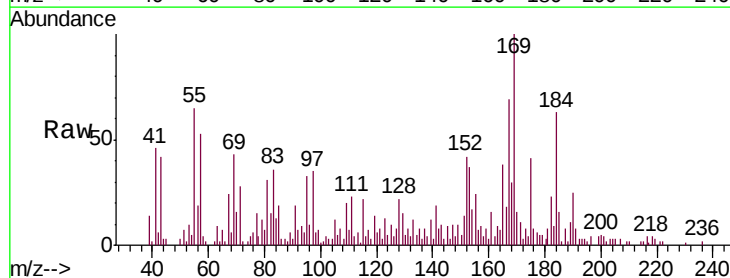
Instrument :  
BNA\_F  
ClientSampleId :  
EP1-NW-IMPACTED-0818

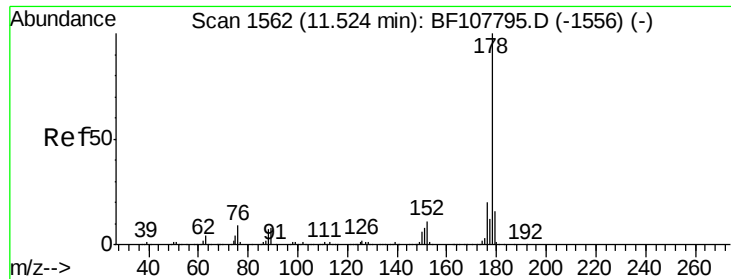
Tgt Ion:188 Resp: 294005  
Ion Ratio Lower Upper  
188 100  
94 8.9 8.5 12.7  
80 9.7 9.2 13.8



#65  
n-Nitrosodiphenylamine  
Concen: 2.187 ng  
RT: 10.69 min Scan# 1420  
Delta R.T. 0.02 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

Tgt Ion:169 Resp: 21174  
Ion Ratio Lower Upper  
169 100  
168 29.9 54.4 81.6#  
167 68.7 29.8 44.6#

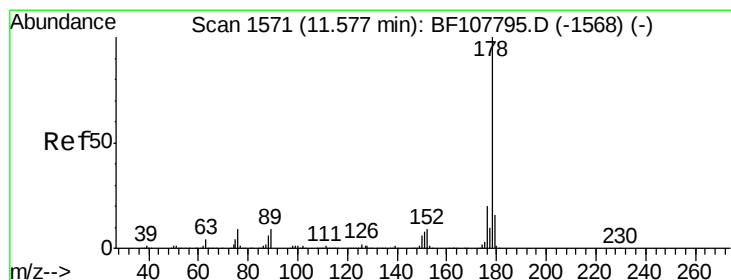
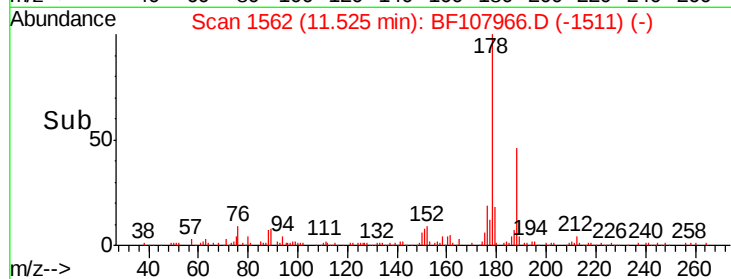
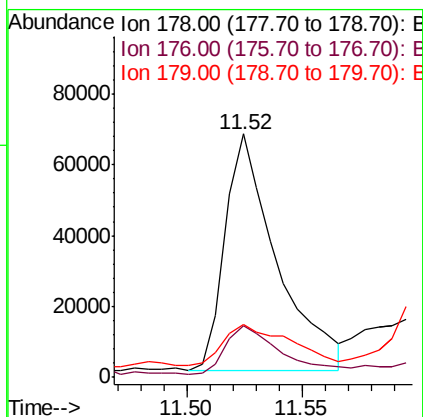
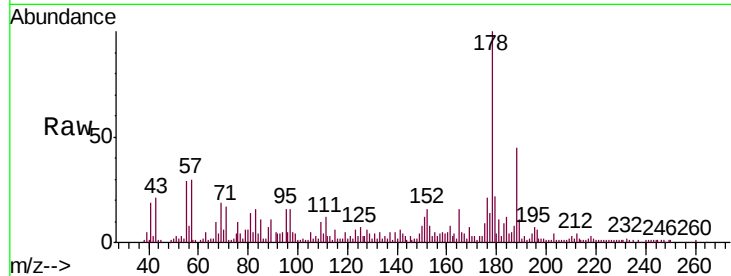




#70  
Phenanthrene  
Concen: 7.462 ng  
RT: 11.52 min Scan# 1562  
Delta R.T. 0.00 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

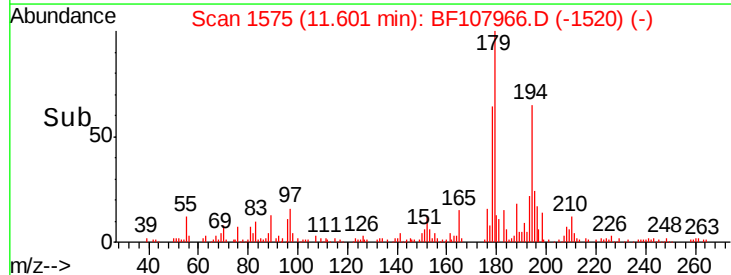
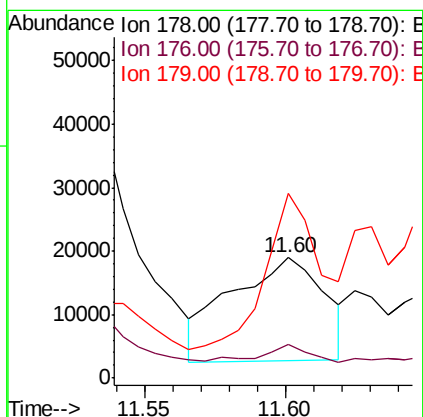
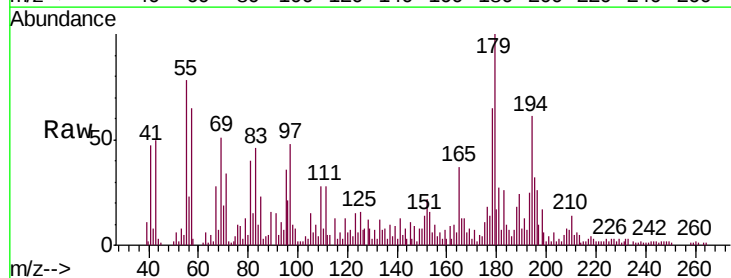
Instrument :  
BNA\_F  
ClientSampleId :  
EP1-NW-IMPACTED-0818

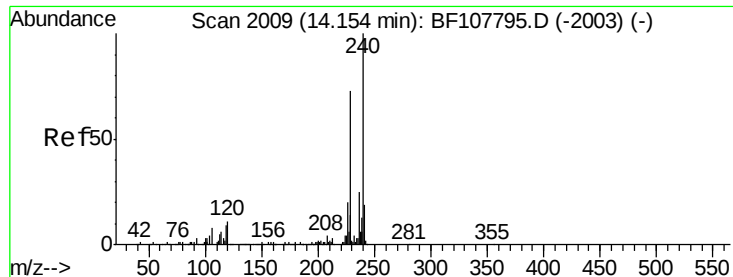
Tgt Ion:178 Resp: 104178  
Ion Ratio Lower Upper  
178 100  
176 20.9 15.8 23.8  
179 21.7 13.0 19.6#



#71  
Anthracene  
Concen: 2.321 ng  
RT: 11.60 min Scan# 1575  
Delta R.T. 0.02 min  
Lab File: BF107966.D  
Acq: 4 Aug 2018 4:33

Tgt Ion:178 Resp: 37381  
Ion Ratio Lower Upper  
178 100  
176 28.3 15.4 23.2#  
179 153.5 12.6 19.0#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

Instrument :

BNA\_F

ClientSampleId :

EP1-NW-IMPACTED-0818

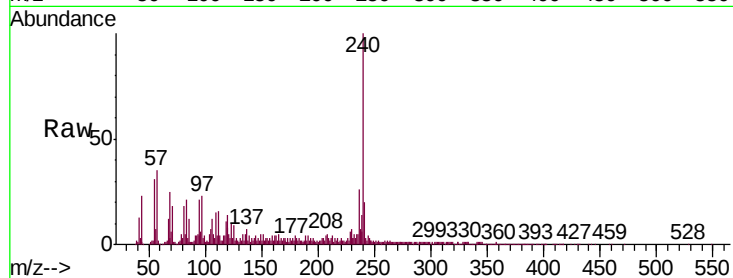
Tgt Ion:240 Resp: 274430

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

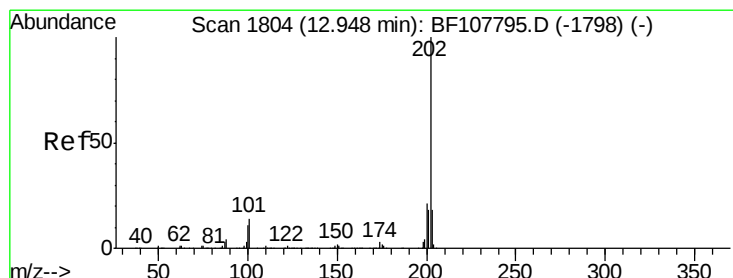
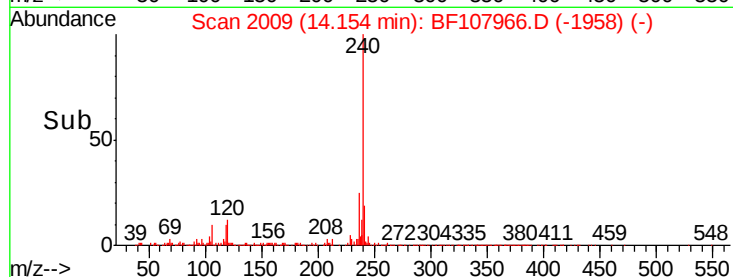
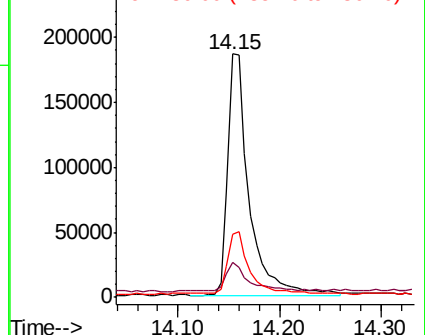
236 26.2 20.7 31.1



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



#77

Pyrene

Concen: 2.977 ng

RT: 12.95 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF107966.D

Acq: 4 Aug 2018 4:33

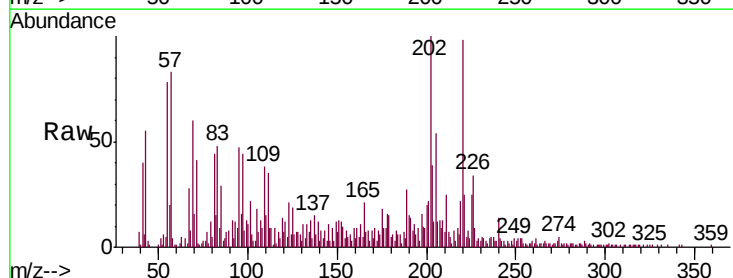
Tgt Ion:202 Resp: 58820

Ion Ratio Lower Upper

202 100

200 20.0 17.4 26.2

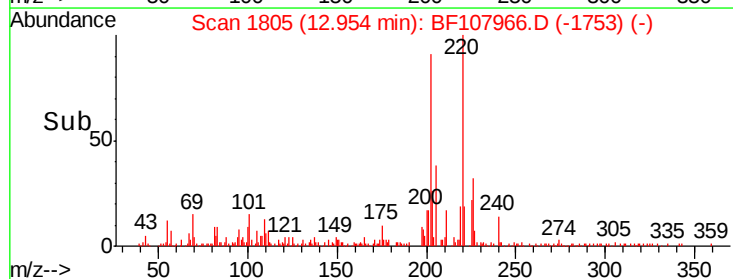
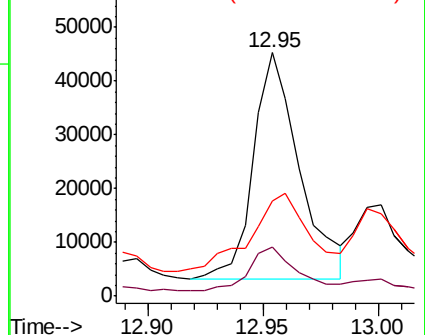
203 38.9 14.3 21.5#

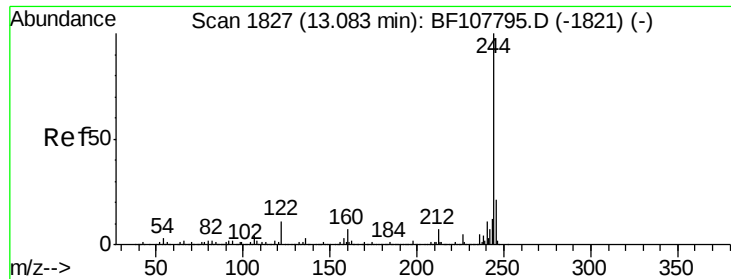


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

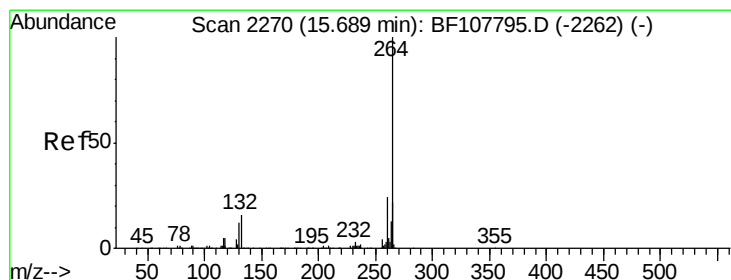
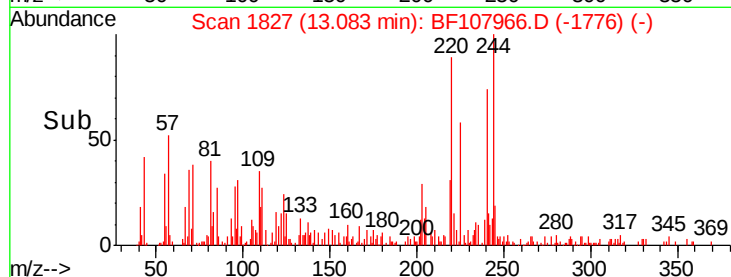
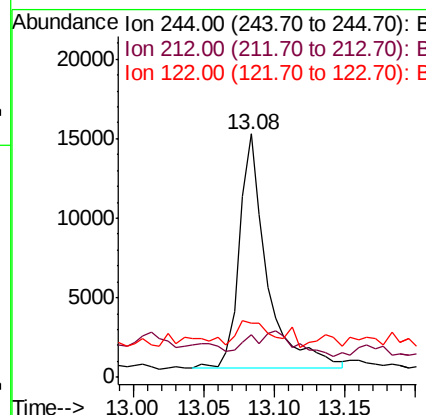
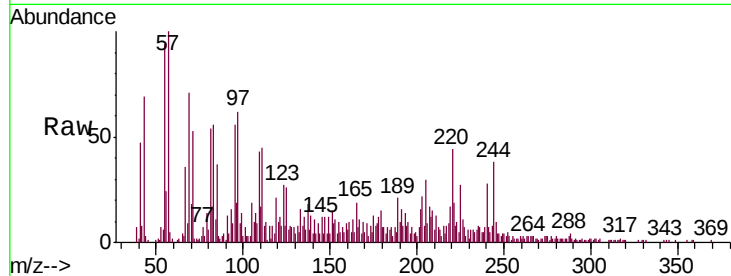




#78  
 Terphenyl-d14  
 Concen: 1.580 ng  
 RT: 13.08 min Scan# 1827  
 Delta R.T. 0.00 min  
 Lab File: BF107966.D  
 Acq: 4 Aug 2018 4:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP1-NW-IMPACTED-0818

Tgt Ion:244 Resp: 20000  
 Ion Ratio Lower Upper  
 244 100  
 212 17.6 5.4 8.0#  
 122 22.1 11.0 16.4#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.70 min Scan# 2272  
 Delta R.T. 0.01 min  
 Lab File: BF107966.D  
 Acq: 4 Aug 2018 4:33

Tgt Ion:264 Resp: 202571  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 22.2 17.5 26.3

