

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012419\  
 Data File : BF112211.D  
 Acq On : 24 Jan 2019 16:19  
 Operator : JU/SJ  
 Sample : K1016-07 2X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-3-012319

Quant Time: Jan 25 00:02:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 19 01:02:12 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 211606   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 810667   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.89  | 164  | 368938   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.38 | 188  | 595353   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.03 | 240  | 501089   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.50 | 264  | 386053   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 633449   | 54.33 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 795088   | 54.51 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 483617   | 41.22 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.68 | 330  | 197468   | 49.61 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.21  | 172  | 927803   | 36.87 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.98 | 244  | 669013   | 28.40 | ng    | 0.01     |

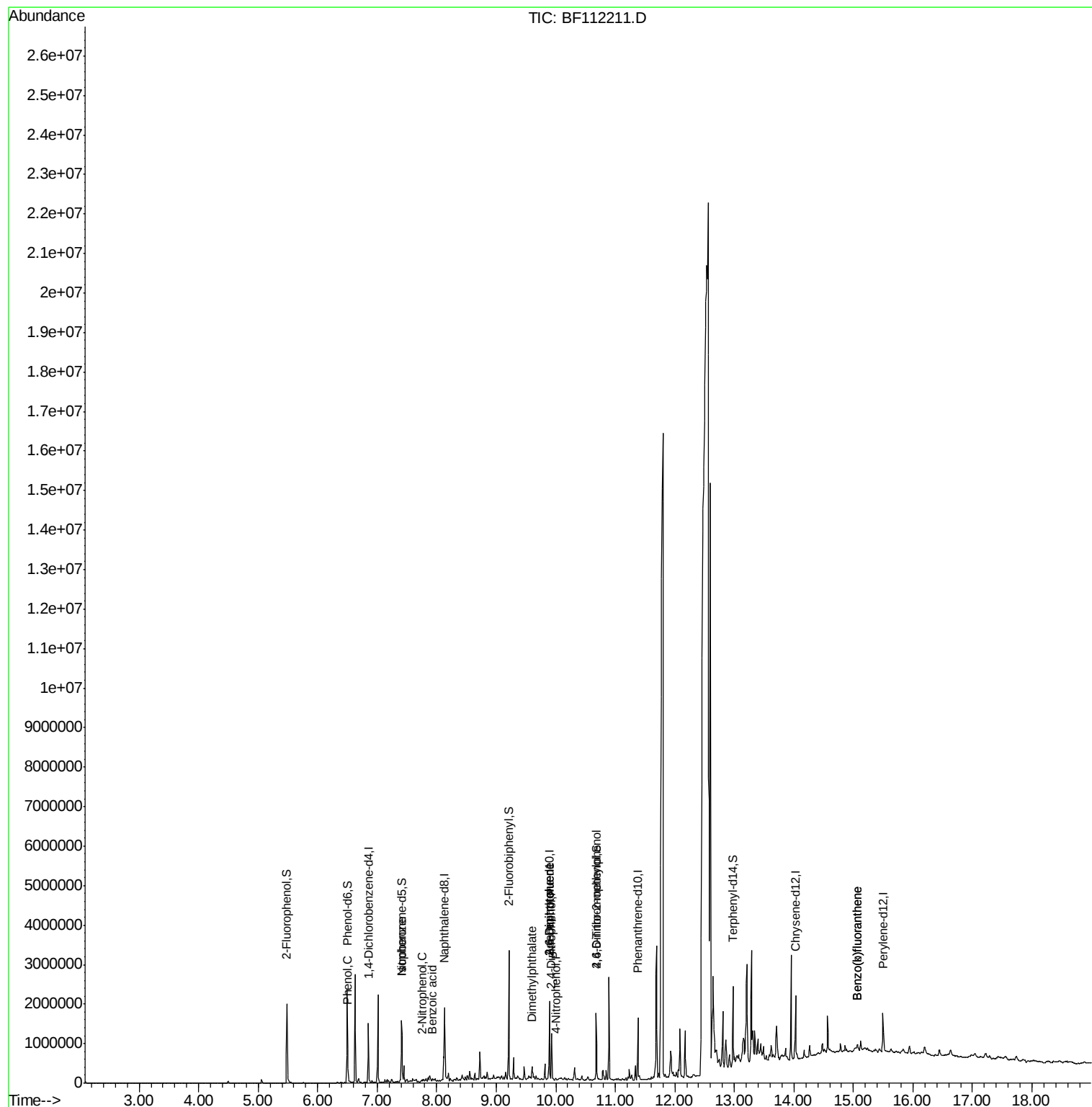
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.40  | 77   | 534      | Below Cal |       | # 5    |
| 10) Phenol                     | 6.51  | 94   | 68585    | 4.302     | ng    | # 72   |
| 25) Isophorone                 | 7.41  | 82   | 479421   | 21.153    | ng    | # 64   |
| 26) 2-Nitrophenol              | 7.76  | 139  | 280      | 5.719     | ng    | # 1    |
| 32) Benzoic acid               | 7.93  | 122  | 110      | 7.193     | ng    | # 34   |
| 50) Dimethylphthalate          | 9.60  | 163  | 81912    | 3.044     | ng    | 100    |
| 51) 2,6-Dinitrotoluene         | 9.89  | 165  | 49898    | 9.286     | ng    | # 34   |
| 54) 2,4-Dinitrophenol          | 9.93  | 184  | 2308     | 9.937     | ng    | # 45   |
| 56) 4-Nitrophenol              | 10.00 | 139  | 1097     | 5.892     | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 9.89  | 165  | 49898    | 11.125    | ng    | # 32   |
| 65) 4,6-Dinitro-2-methylphenol | 10.68 | 198  | 303      | 10.166    | ng    | # 1    |
| 88) Benzo(b)fluoranthene       | 15.07 | 252  | 71022    | 3.241     | ng    | # 80   |
| 89) Benzo(k)fluoranthene       | 15.07 | 252  | 71022    | 3.349     | ng    | # 80   |

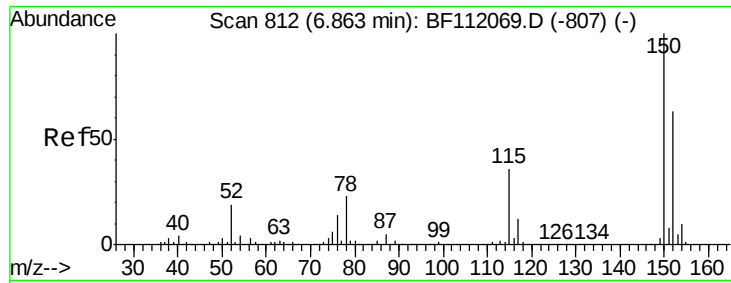
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012419\  
Data File : BF112211.D  
Acq On : 24 Jan 2019 16:19  
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Sample : K1016-07 2X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-RO-3-012319

Quant Time: Jan 25 00:01:59 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jan 19 01:02:12 2019  
Response via : Initial Calibration



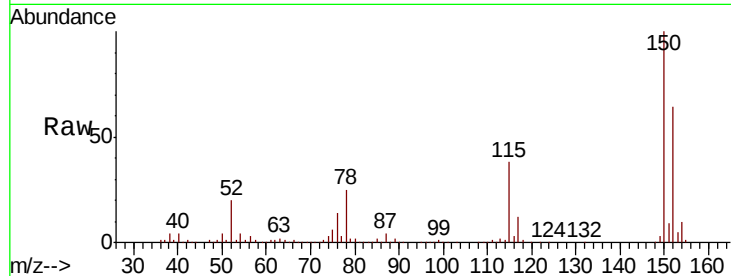


#1

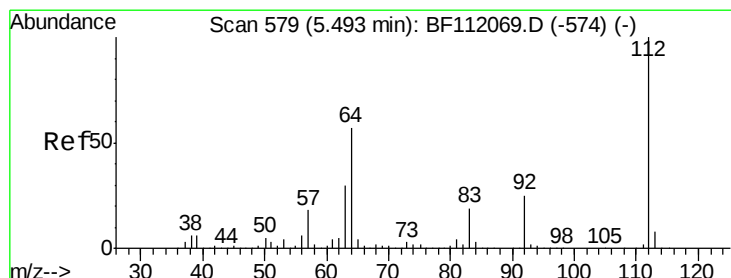
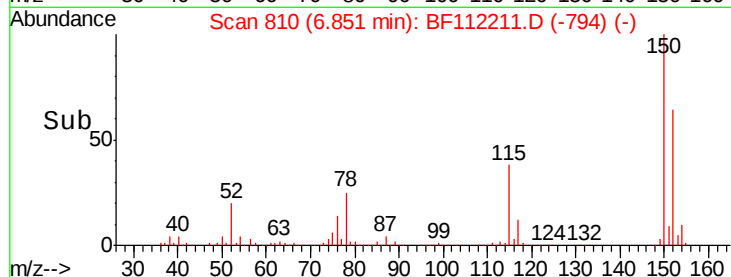
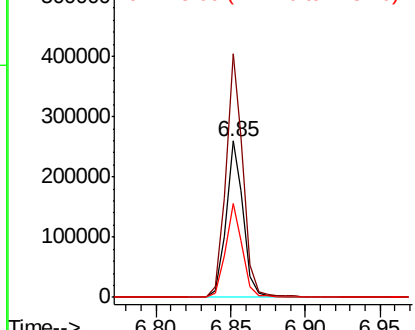
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.01 min  
Lab File: BF112211.D  
Acq: 24 Jan 2019 16:19

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-RO-3-012319

Tgt Ion:152 Resp: 211606  
Ion Ratio Lower Upper  
152 100  
150 155.8 127.4 191.0  
115 60.0 45.5 68.3



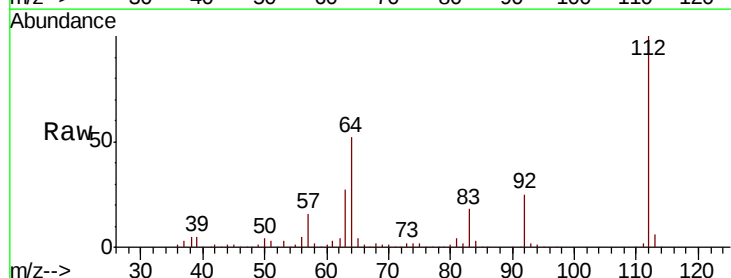
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



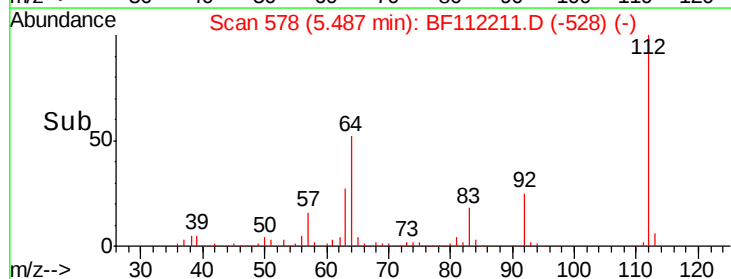
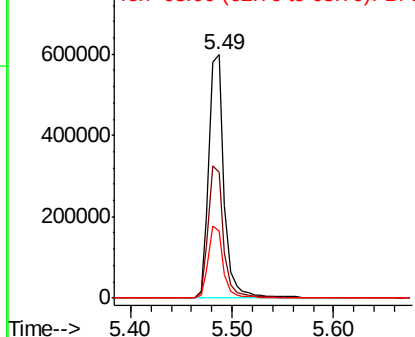
#5

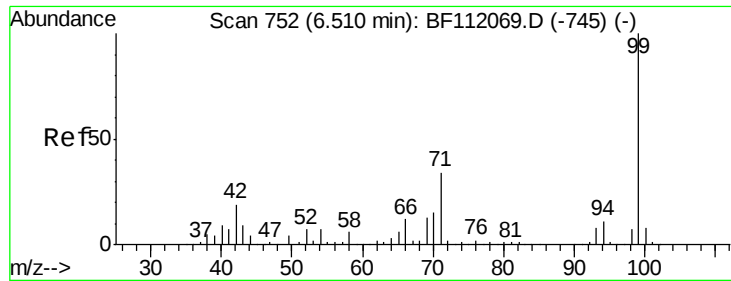
2-Fluorophenol  
Concen: 54.334 ng  
RT: 5.49 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: BF112211.D  
Acq: 24 Jan 2019 16:19

Tgt Ion:112 Resp: 633449  
Ion Ratio Lower Upper  
112 100  
64 51.8 45.7 68.5  
63 27.3 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: 54.508 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

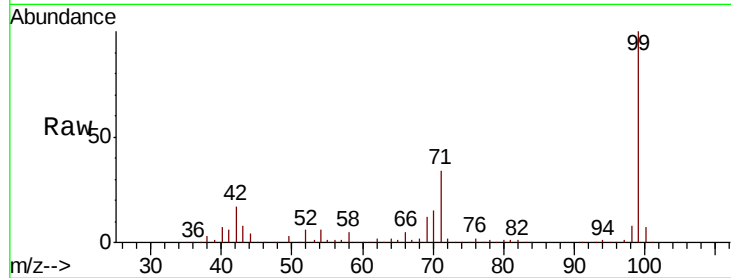
Tgt Ion: 99 Resp: 795088

Ion Ratio Lower Upper

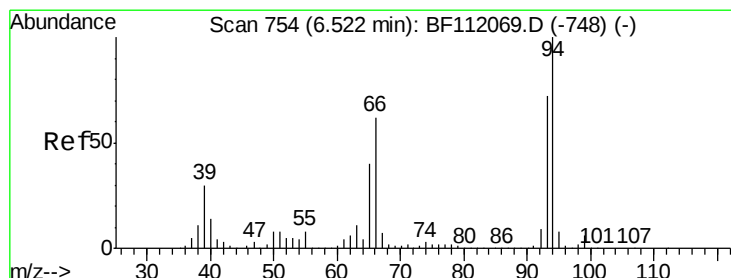
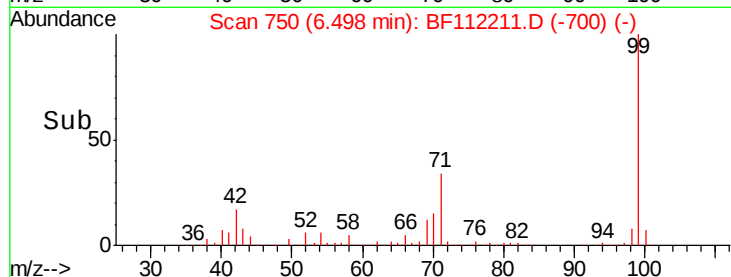
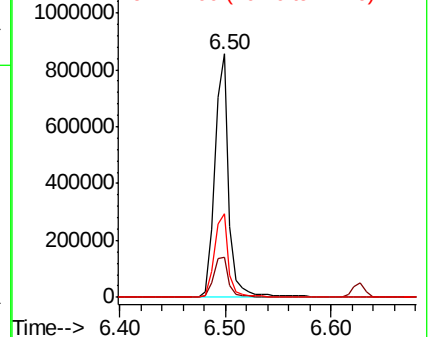
99 100

42 16.6 15.1 22.7

71 34.1 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: 4.302 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

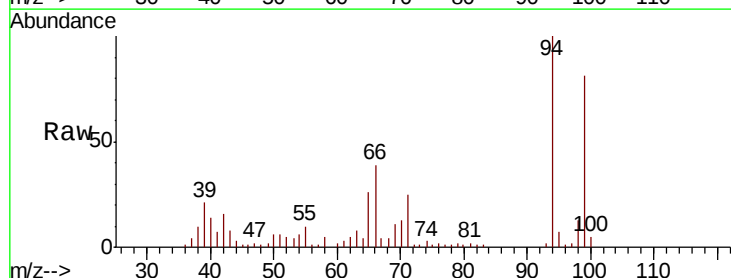
Tgt Ion: 94 Resp: 68585

Ion Ratio Lower Upper

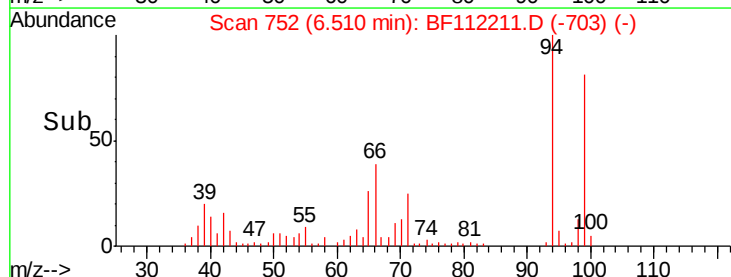
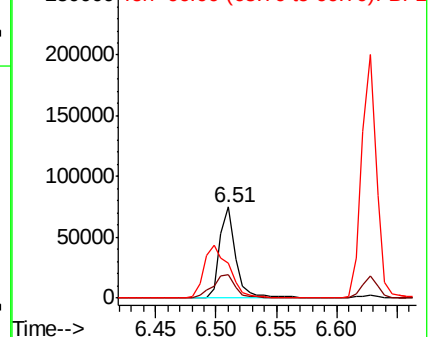
94 100

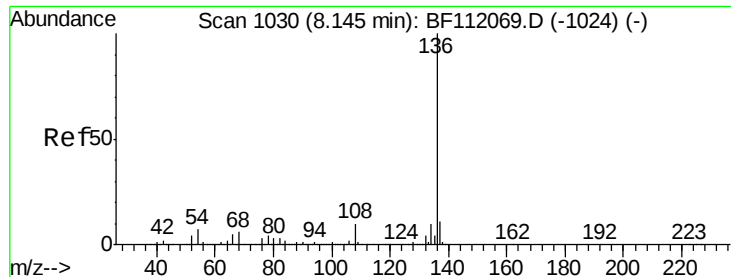
65 26.2 20.3 60.3

66 38.7 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





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

Tgt Ion: 136 Resp: 810667

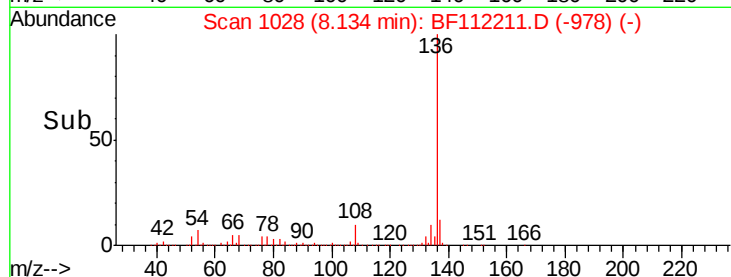
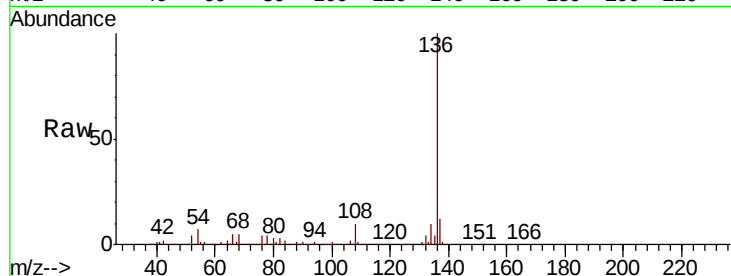
Ion Ratio Lower Upper

136 100

137 11.6 9.1 13.7

54 6.8 5.9 8.9

68 5.3 5.1 7.7

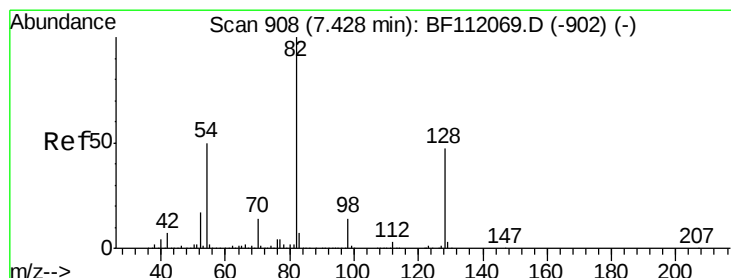
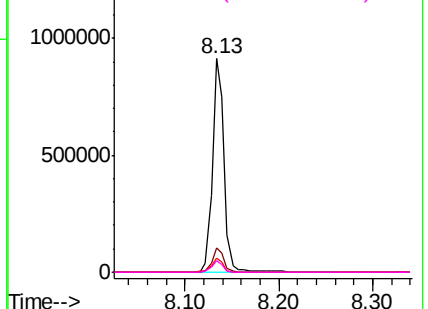


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 41.216 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

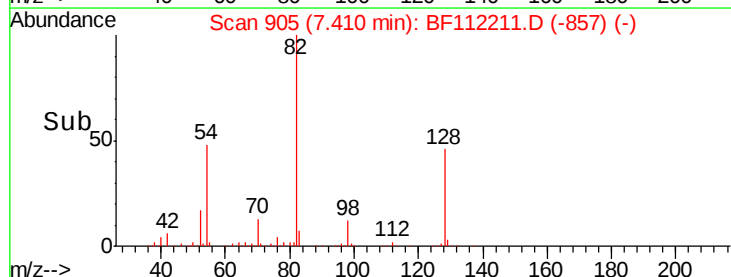
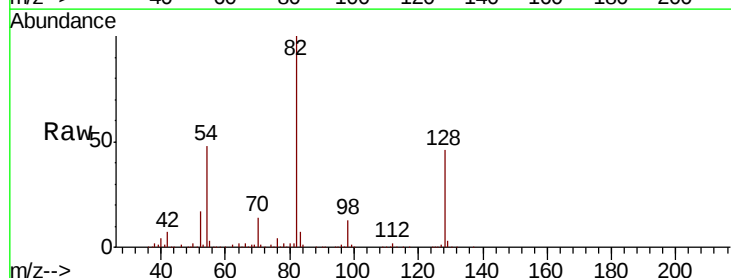
Tgt Ion: 82 Resp: 483617

Ion Ratio Lower Upper

82 100

128 45.7 37.8 56.8

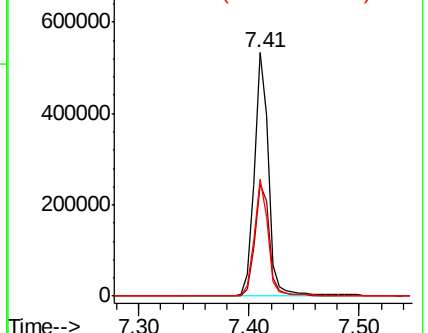
54 47.8 39.7 59.5

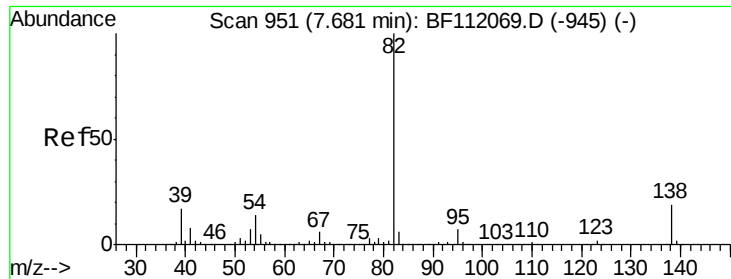


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 21.153 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.27 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

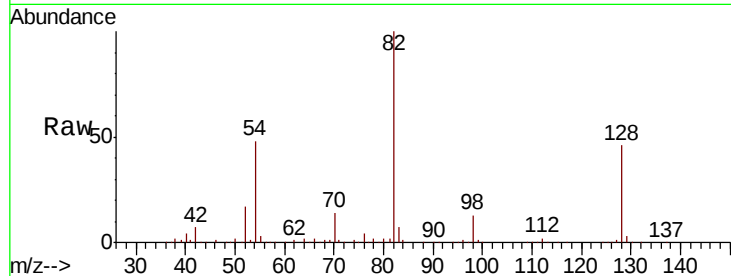
Tgt Ion: 82 Resp: 479421

Ion Ratio Lower Upper

82 100

95 0.2 5.7 8.5#

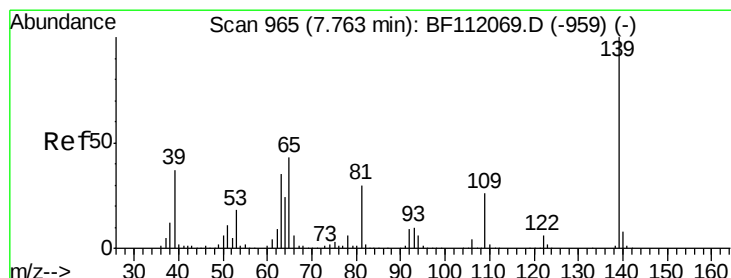
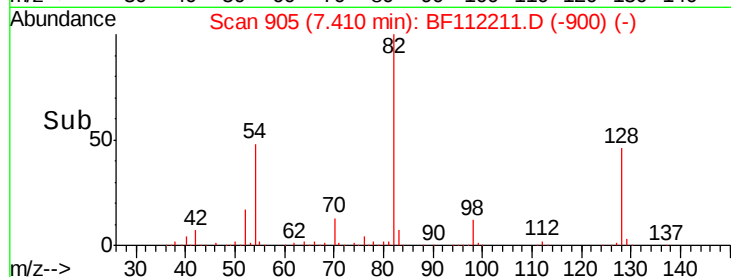
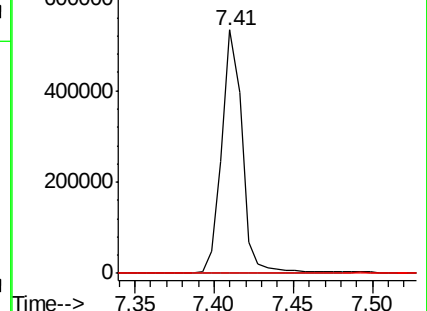
138 0.0 15.4 23.0#



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



#26

2-Nitrophenol

Concen: 5.719 ng

RT: 7.76 min Scan# 964

Delta R.T. 0.00 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

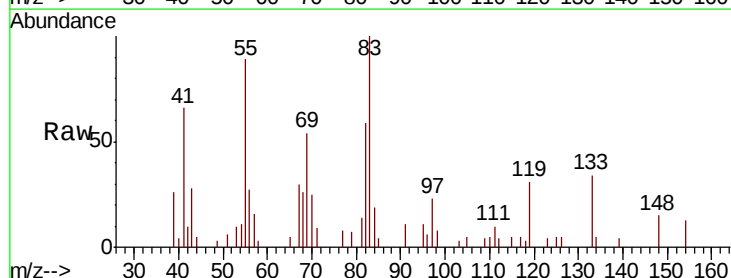
Tgt Ion: 139 Resp: 280

Ion Ratio Lower Upper

139 100

109 114.5 20.8 31.2#

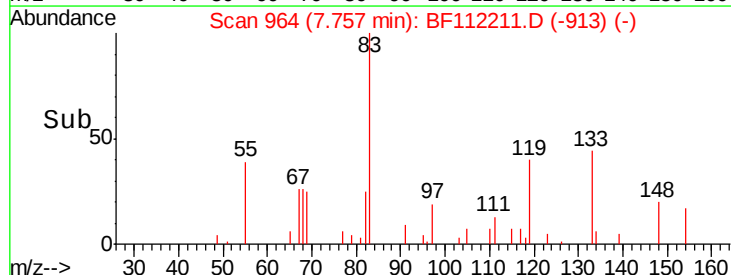
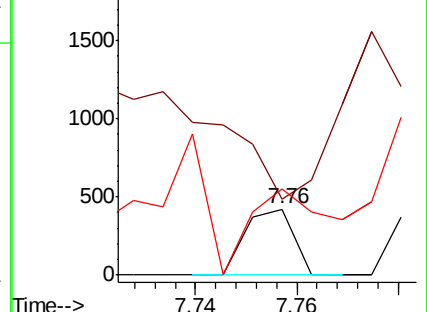
65 131.3 34.4 51.6#

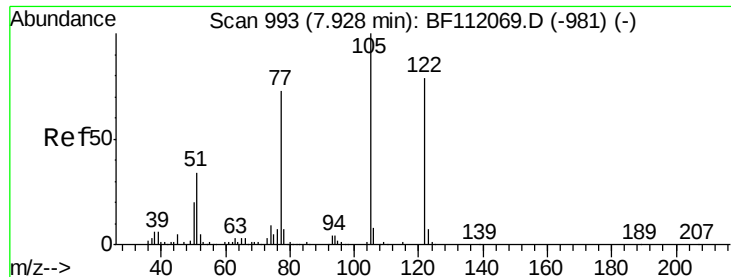


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#32

Benzoic acid

Concen: 7.193 ng

RT: 7.93 min Scan# 994

Delta R.T. -0.01 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

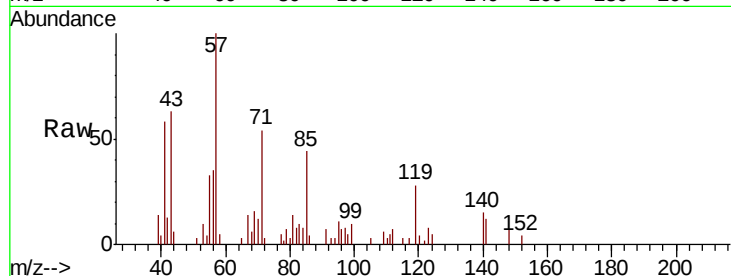
Tgt Ion:122 Resp: 110

Ion Ratio Lower Upper

122 100

105 126.5 101.2 141.2

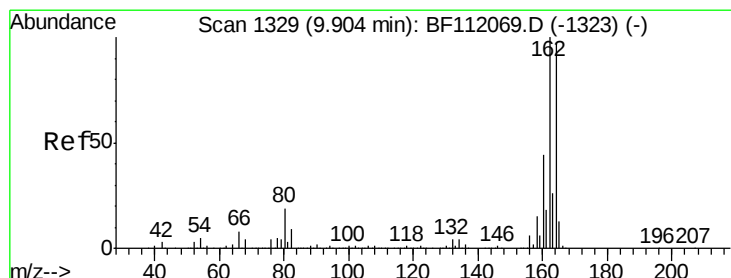
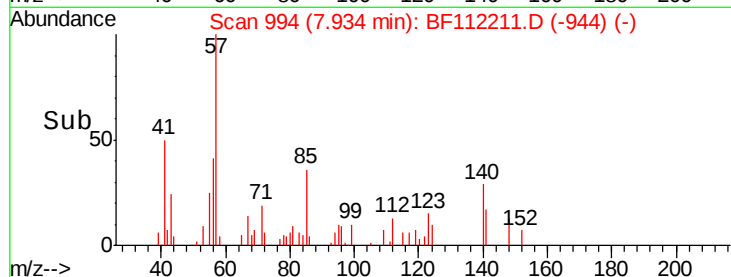
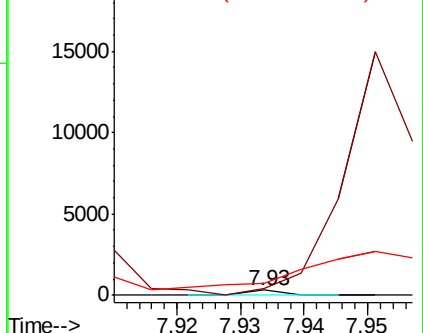
77 230.4 70.4 110.4#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

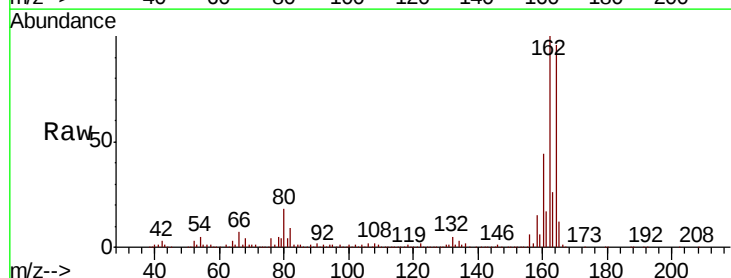
Tgt Ion:164 Resp: 368938

Ion Ratio Lower Upper

164 100

162 104.3 82.2 123.4

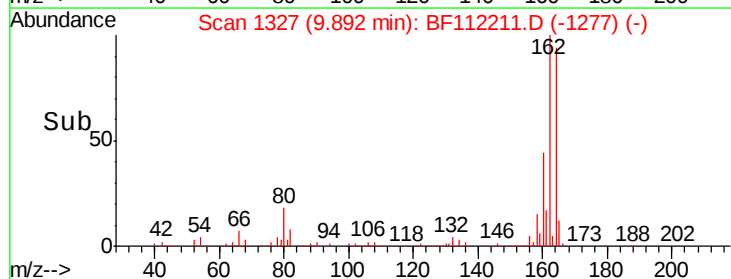
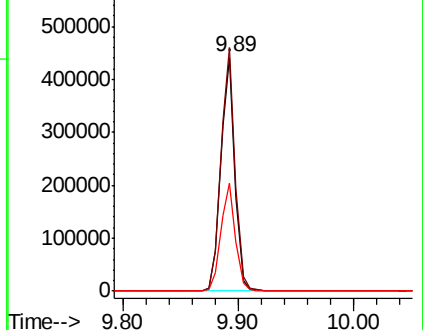
160 46.3 36.2 54.4

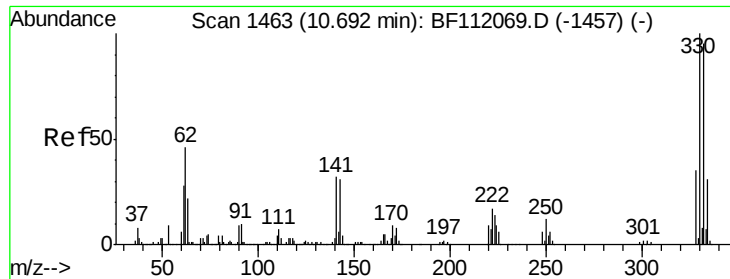


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

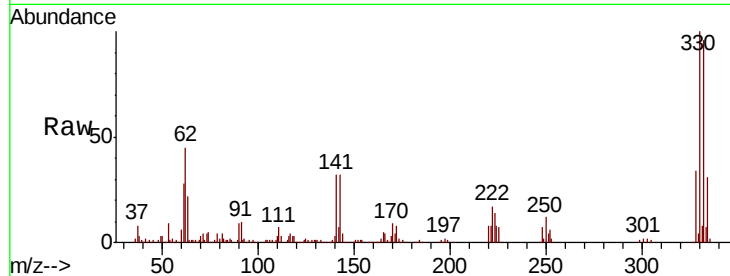




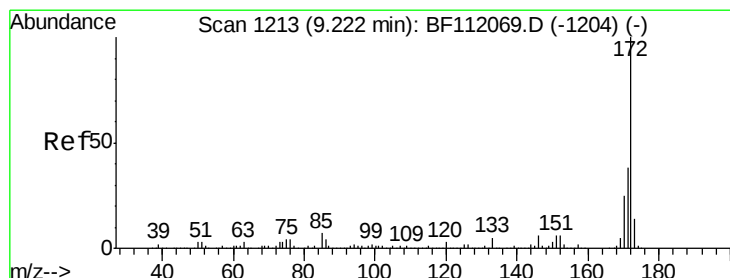
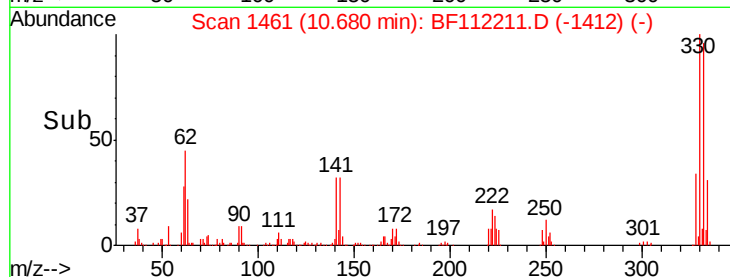
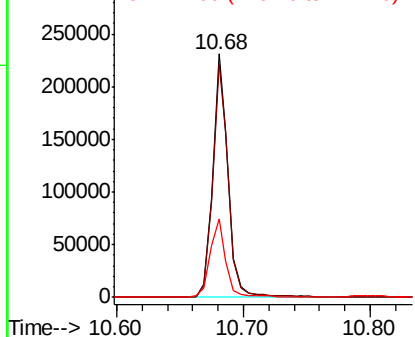
#42  
 2,4,6-Tribromophenol  
 Concen: 49.615 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. -0.01 min  
 Lab File: BF112211.D  
 Acq: 24 Jan 2019 16:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-3-012319

Tgt Ion:330 Resp: 197468  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 76.6 114.8  
 141 32.8 24.3 36.5

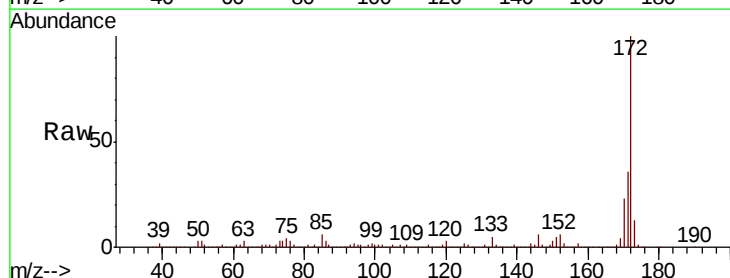


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

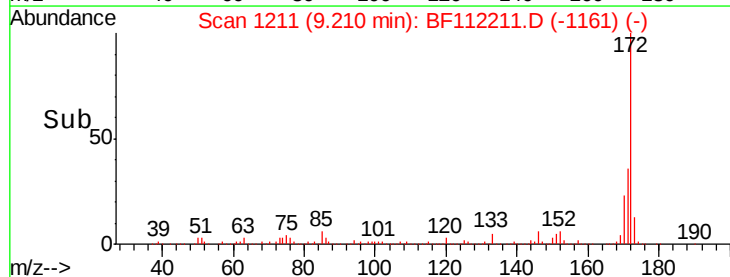
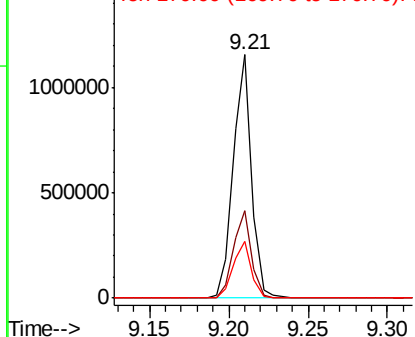


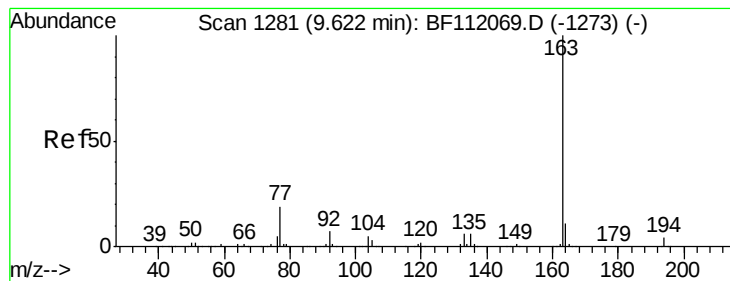
#45  
 2-Fluorobiphenyl  
 Concen: 36.870 ng  
 RT: 9.21 min Scan# 1211  
 Delta R.T. -0.01 min  
 Lab File: BF112211.D  
 Acq: 24 Jan 2019 16:19

Tgt Ion:172 Resp: 927803  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 30.5 45.7  
 170 23.5 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: 3.044 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

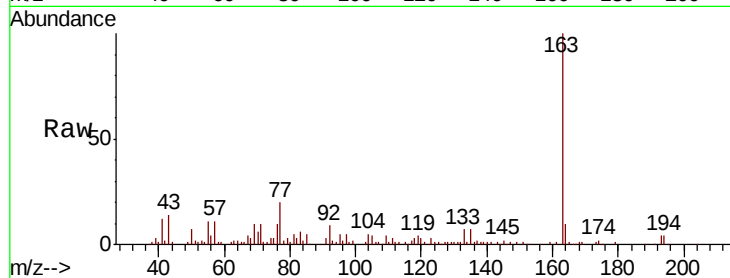
Tgt Ion:163 Resp: 81912

Ion Ratio Lower Upper

163 100

194 4.2 3.3 4.9

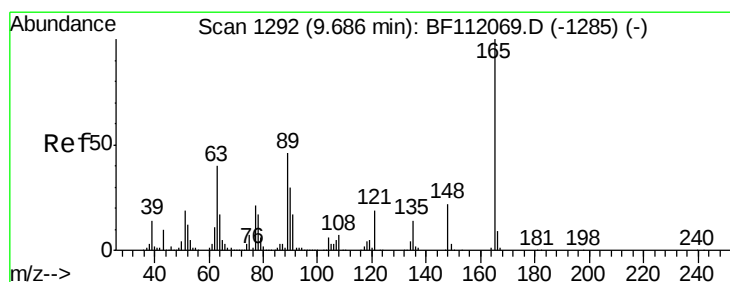
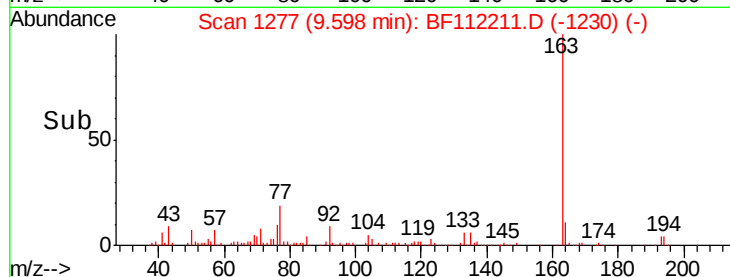
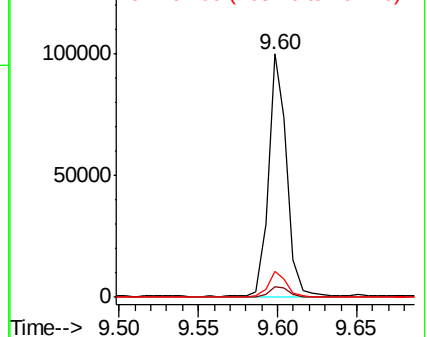
164 10.5 8.5 12.7



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: 9.286 ng

RT: 9.89 min Scan# 1327

Delta R.T. 0.21 min

Lab File: BF112211.D

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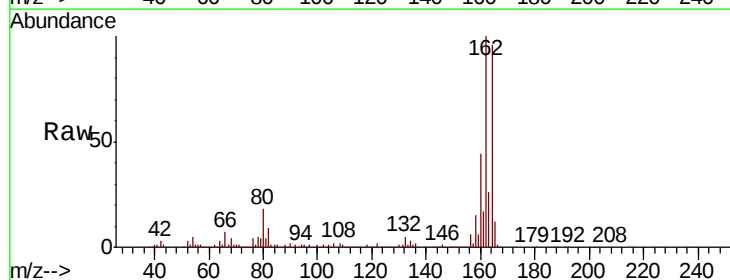
Tgt Ion:165 Resp: 49898

Ion Ratio Lower Upper

165 100

63 1.4 33.8 50.8#

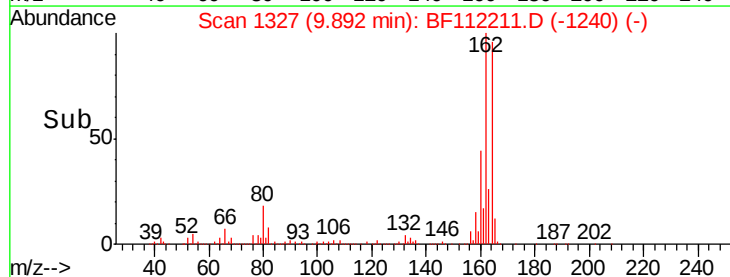
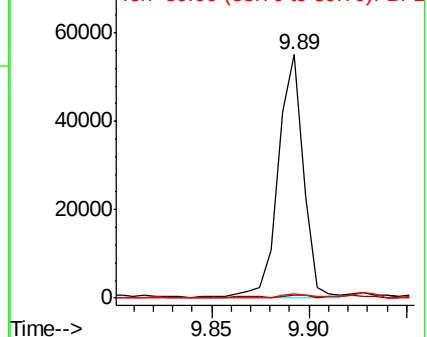
89 1.9 36.9 55.3#

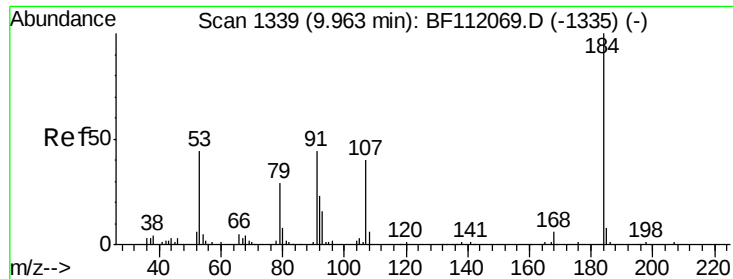


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

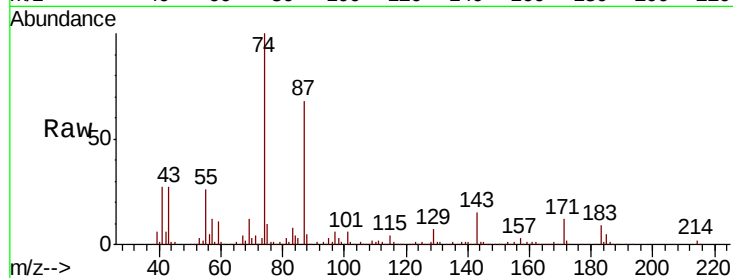




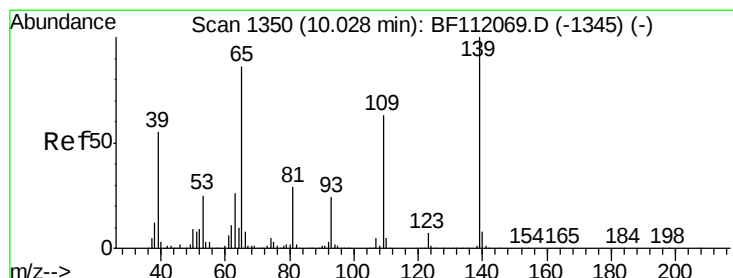
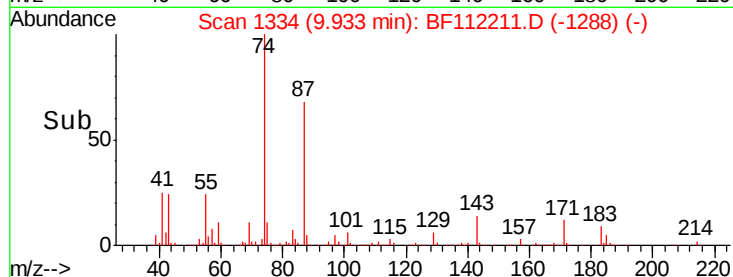
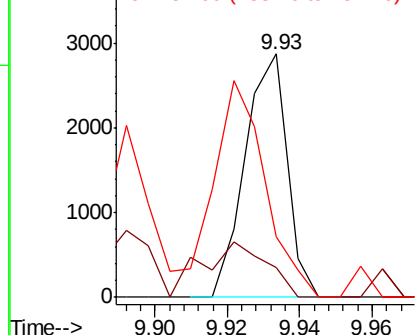
#54  
2,4-Dinitrophenol  
Concen: 9.937 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. -0.03 min  
Lab File: BF112211.D  
Acq: 24 Jan 2019 16:19

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-RO-3-012319

Tgt Ion:184 Resp: 2308  
Ion Ratio Lower Upper  
184 100  
63 12.4 47.1 70.7#  
154 25.0 48.9 73.3#

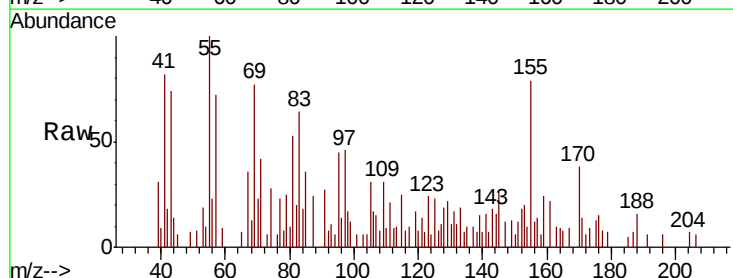


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 154.00 (153.70 to 154.70): E

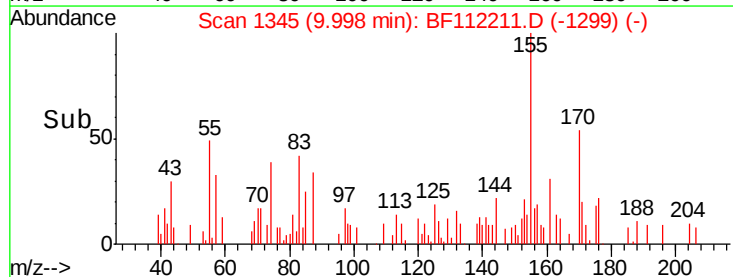
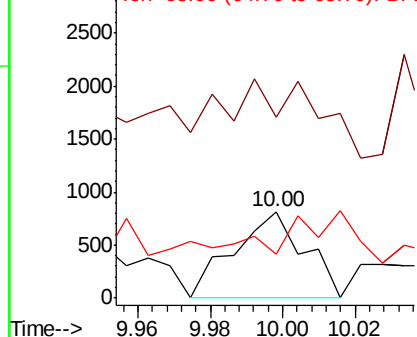


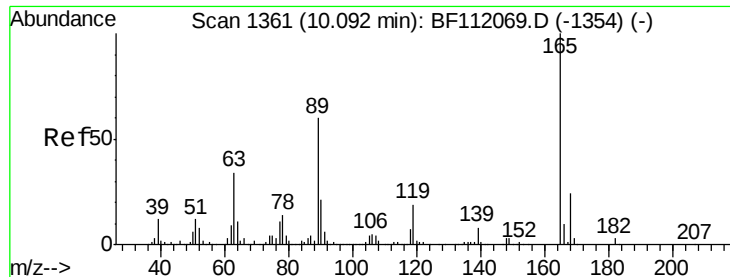
#56  
4-Nitrophenol  
Concen: 5.892 ng  
RT: 10.00 min Scan# 1345  
Delta R.T. -0.03 min  
Lab File: BF112211.D  
Acq: 24 Jan 2019 16:19

Tgt Ion:139 Resp: 1097  
Ion Ratio Lower Upper  
139 100  
109 209.0 42.8 82.8#  
65 51.3 66.1 106.1#



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

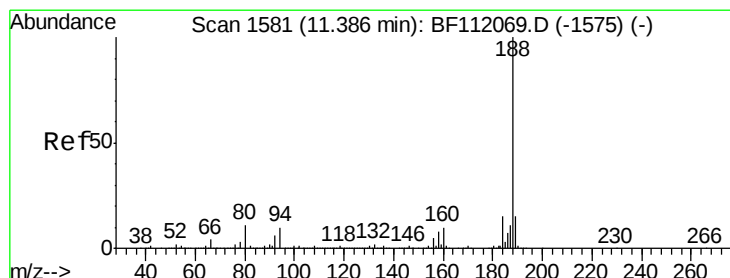
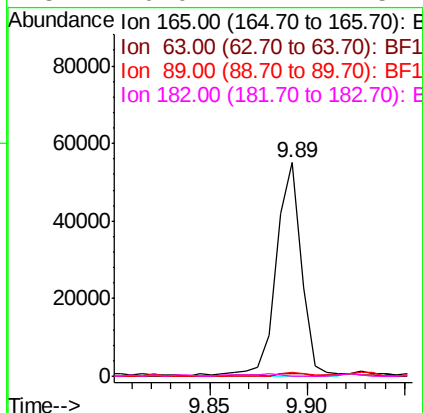
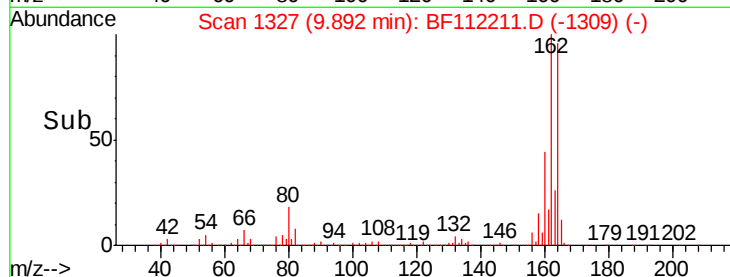
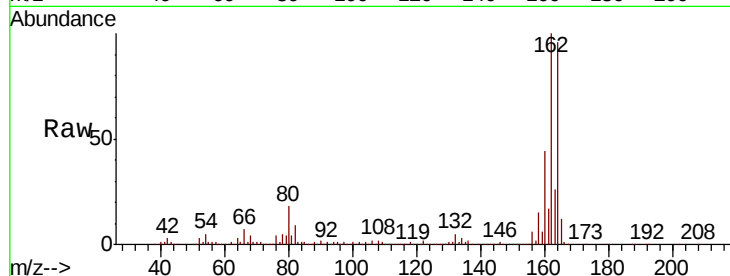




#57  
 2,4-Dinitrotoluene  
 Concen: 11.125 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. -0.19 min  
 Lab File: BF112211.D  
 Acq: 24 Jan 2019 16:19

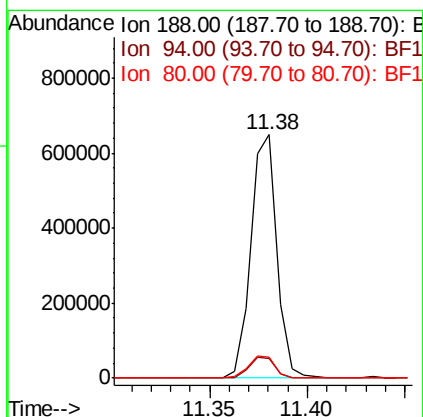
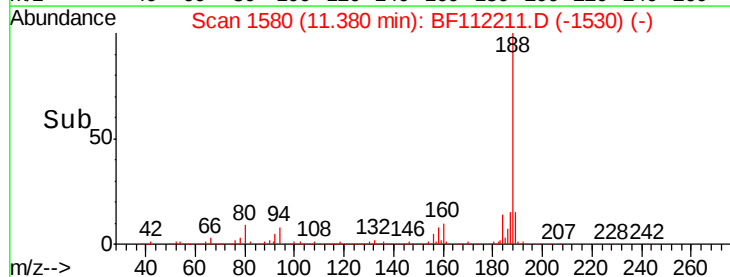
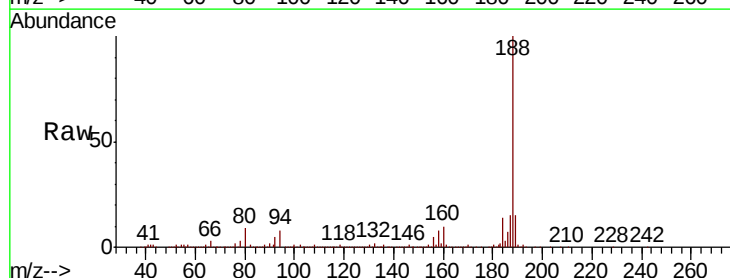
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-3-012319

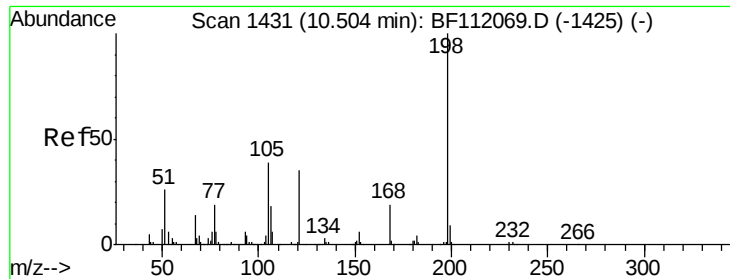
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 27.9  | 41.9# |
| 89      | 1.9   | 47.9  | 71.9# |
| 182     | 0.0   | 2.2   | 3.4#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.38 min Scan# 1580  
 Delta R.T. -0.01 min  
 Lab File: BF112211.D  
 Acq: 24 Jan 2019 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.0   | 8.2   | 12.2# |
| 80      | 8.6   | 8.9   | 13.3# |

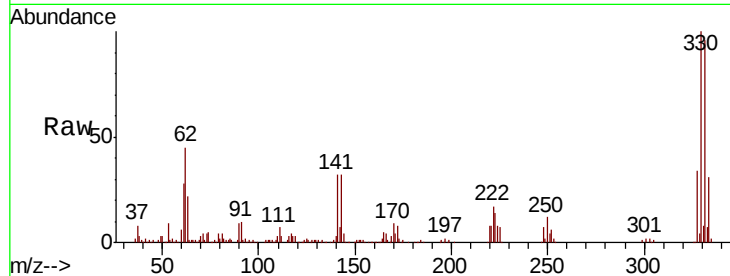




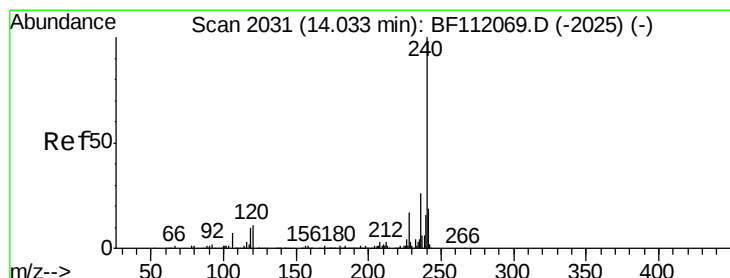
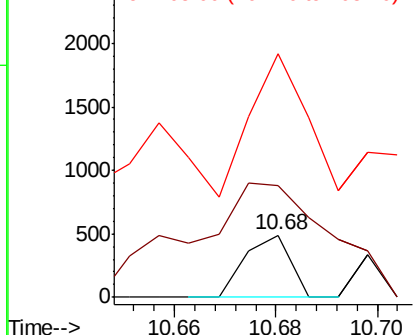
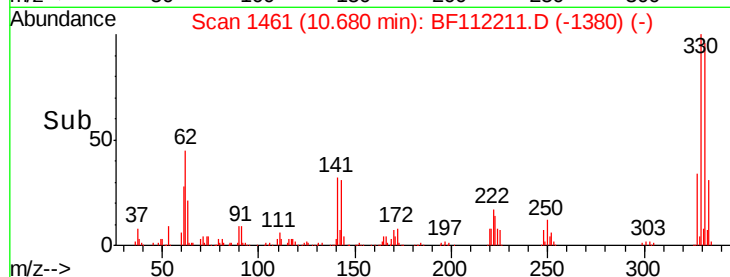
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 10.166 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. 0.18 min  
 Lab File: BF112211.D  
 Acq: 24 Jan 2019 16:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-3-012319

Tgt Ion:198 Resp: 303  
 Ion Ratio Lower Upper  
 198 100  
 51 180.8 17.2 57.2#  
 105 392.2 21.9 61.9#

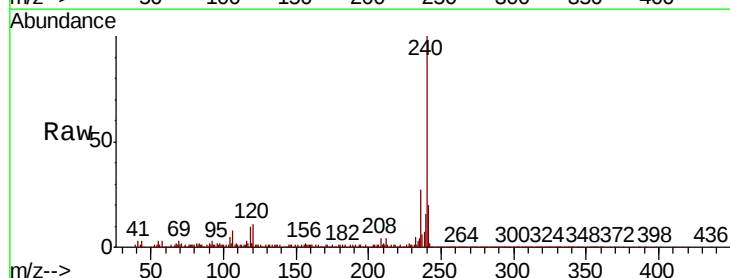


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

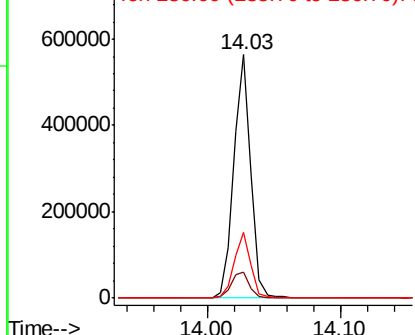
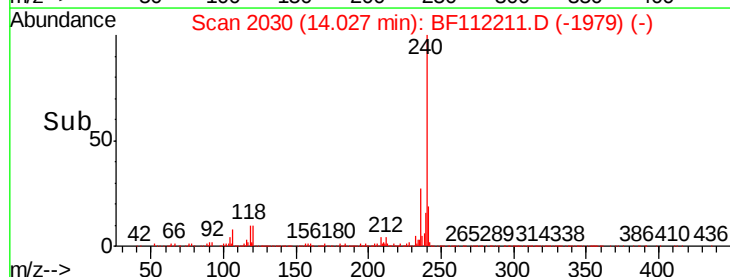


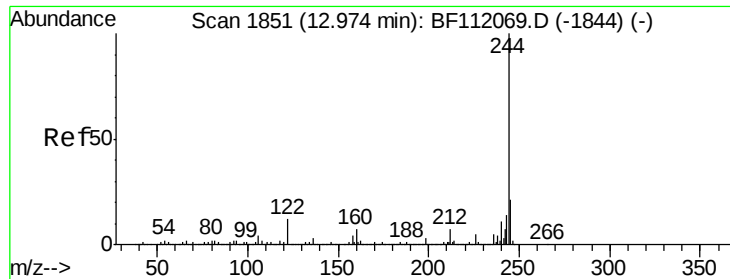
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. 0.00 min  
 Lab File: BF112211.D  
 Acq: 24 Jan 2019 16:19

Tgt Ion:240 Resp: 501089  
 Ion Ratio Lower Upper  
 240 100  
 120 10.7 9.0 13.6  
 236 26.8 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





#79

Terphenyl-d14

Concen: 28.403 ng

RT: 12.98 min Scan# 1852

Delta R.T. 0.01 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

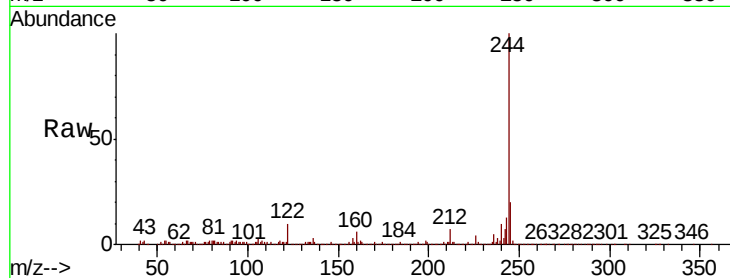
Tgt Ion:244 Resp: 669013

Ion Ratio Lower Upper

244 100

212 6.9 5.9 8.9

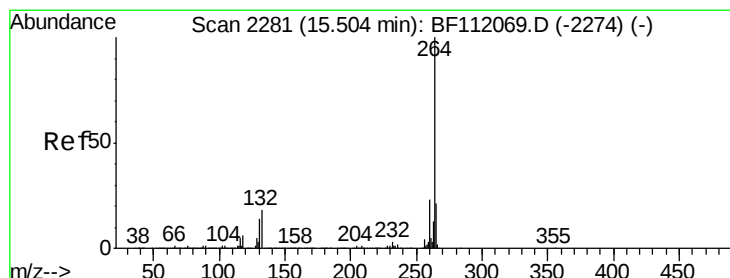
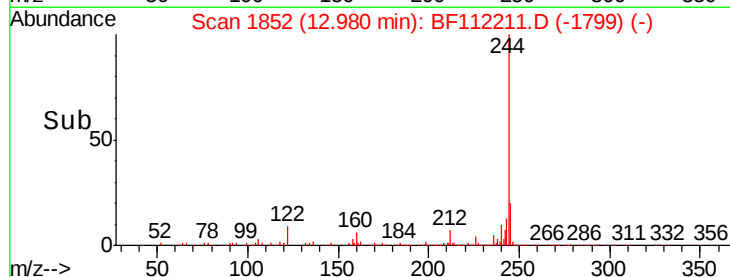
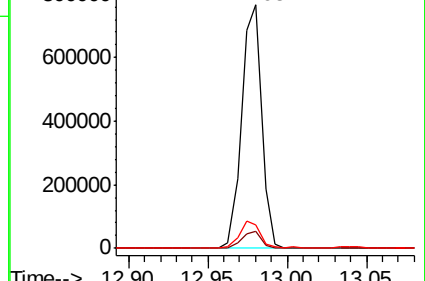
122 9.6 9.8 14.6#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

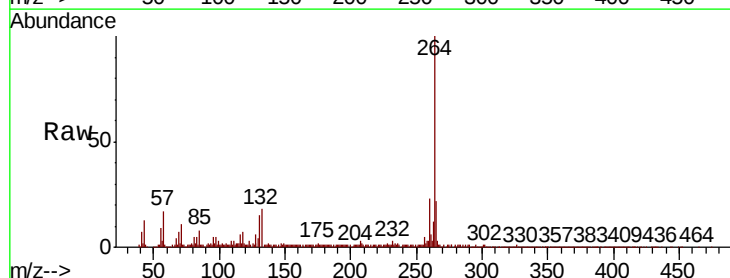
Tgt Ion:264 Resp: 386053

Ion Ratio Lower Upper

264 100

260 22.7 18.2 27.2

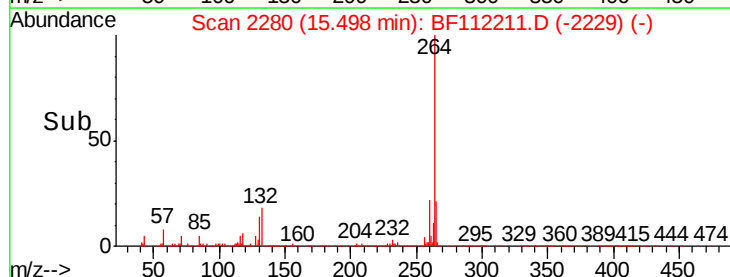
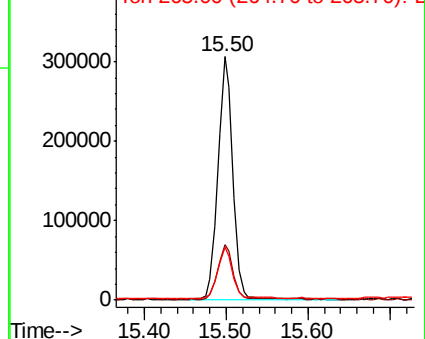
265 22.0 17.0 25.4

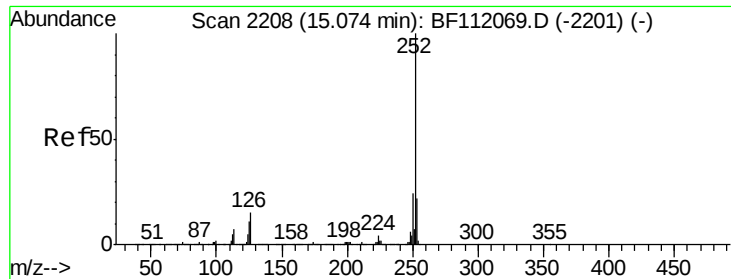


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 3.241 ng

RT: 15.07 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

Instrument :

BNA\_F

ClientSampleId :

TR-05-RO-3-012319

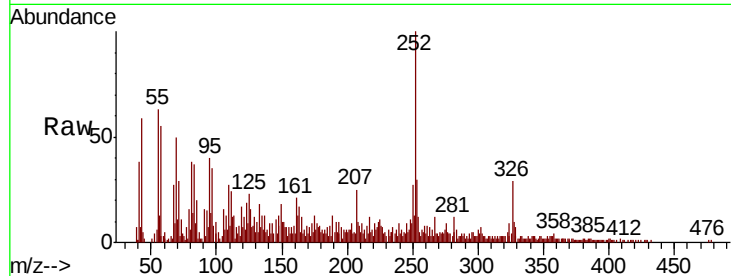
Tgt Ion:252 Resp: 71022

Ion Ratio Lower Upper

252 100

253 29.6 18.0 27.0#

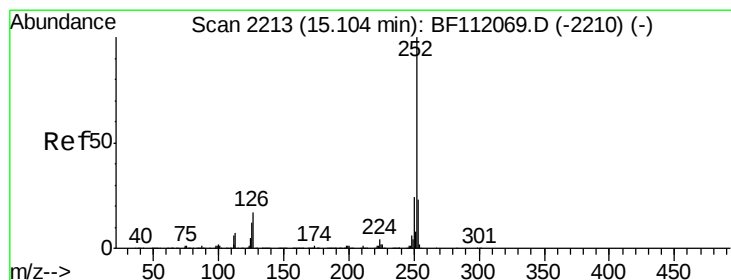
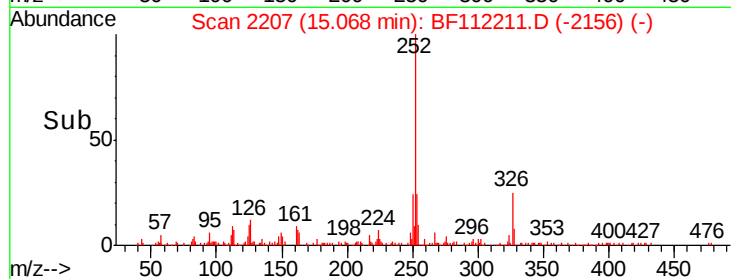
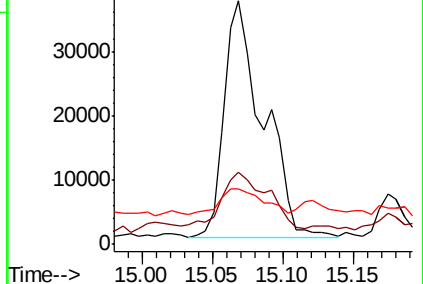
125 22.8 8.7 13.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 3.349 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.03 min

Lab File: BF112211.D

Acq: 24 Jan 2019 16:19

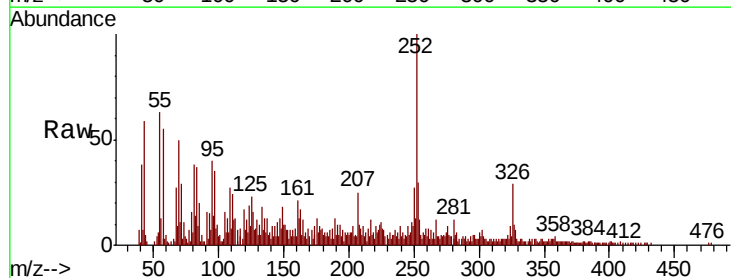
Tgt Ion:252 Resp: 71022

Ion Ratio Lower Upper

252 100

253 29.6 18.0 27.0#

125 22.8 9.1 13.7#



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

