

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062520\  
 Data File : BF120706.D  
 Acq On : 25 Jun 2020 16:24  
 Operator : JU/CG  
 Sample : L2815-11 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-062420

Quant Time: Jun 25 16:58:59 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 11 11:28:22 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 150085   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 565417   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.83  | 164  | 291793   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.32 | 188  | 572582   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.96 | 240  | 403240   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.42 | 264  | 419374   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.41  | 112  | 423509   | 48.38 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 520394   | 47.73 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 321886   | 31.82 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 161764   | 47.68 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 673931   | 35.34 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.91 | 244  | 790716   | 43.31 | ng    | 0.00     |

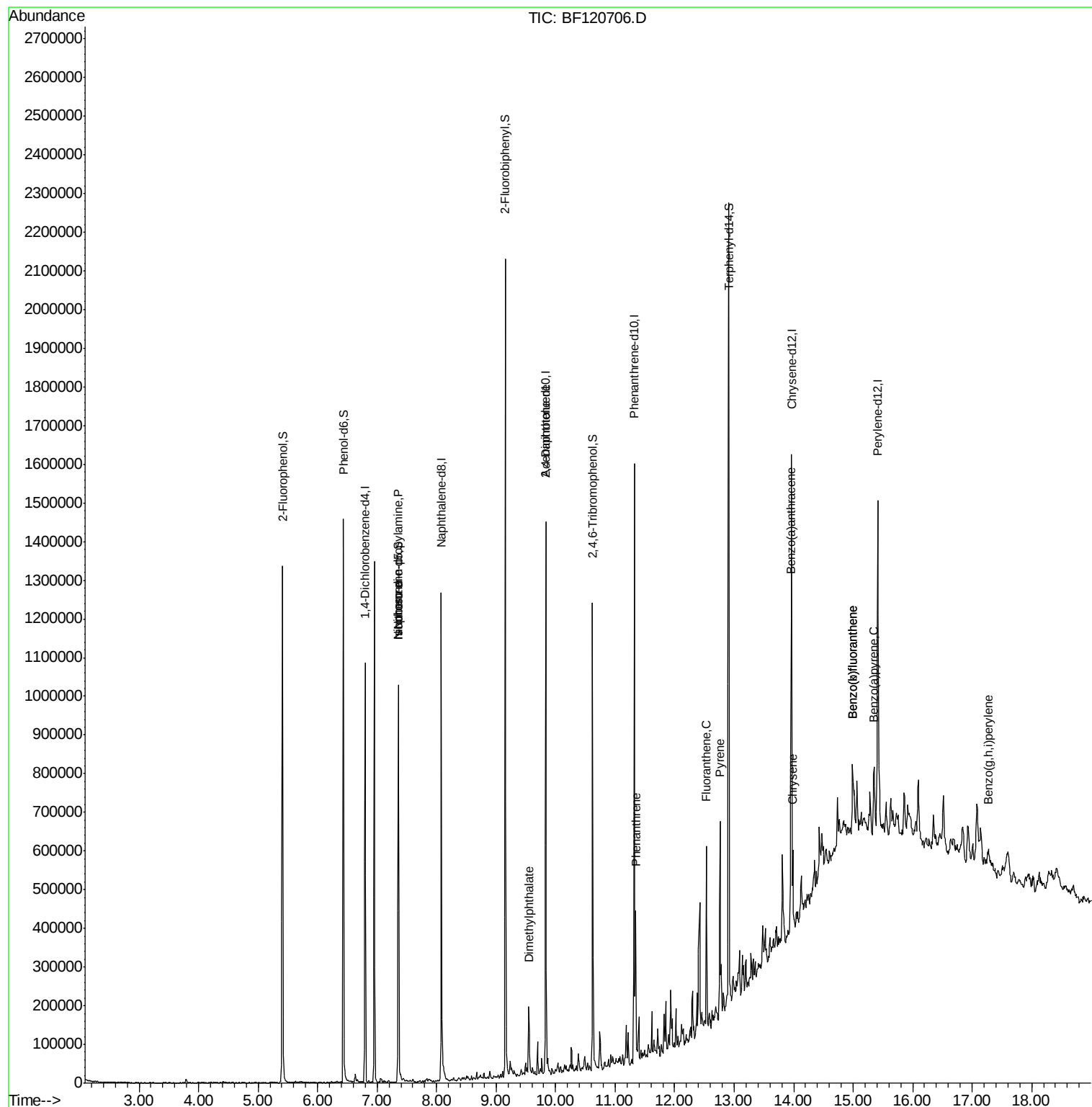
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 41340    | 6.536  | ng    | # 76   |
| 25) Isophorone                 | 7.36  | 82   | 321884   | 16.336 | ng    | # 62   |
| 50) Dimethylphthalate          | 9.55  | 163  | 69428    | 3.304  | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 38018    | 6.016  | ng    | # 30   |
| 71) Phenanthrene               | 11.34 | 178  | 128471   | 4.514  | ng    | 97     |
| 75) Fluoranthene               | 12.53 | 202  | 177968   | 5.469  | ng    | 97     |
| 78) Pyrene                     | 12.76 | 202  | 202165   | 7.077  | ng    | 99     |
| 81) Benzo(a)anthracene         | 13.95 | 228  | 83572    | 3.450  | ng    | 92     |
| 83) Chrysene                   | 13.99 | 228  | 83092    | 3.344  | ng    | 96     |
| 88) Benzo(b)fluoranthene       | 14.99 | 252  | 122383   | 4.899  | ng    | # 92   |
| 89) Benzo(k)fluoranthene       | 14.99 | 252  | 122383   | 5.536  | ng    | # 92   |
| 90) Benzo(a)pyrene             | 15.35 | 252  | 73204    | 3.274  | ng    | # 92   |
| 92) Benzo(a,h,i)perylene       | 17.27 | 276  | 43756    | 2.122  | ng    | # 88   |

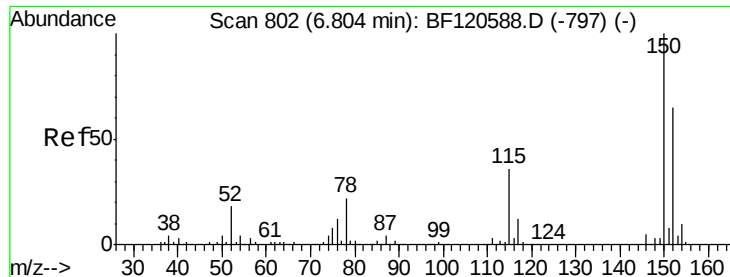
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062520\  
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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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Quant Time: Jun 25 16:58:59 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
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Response via : Initial Calibration



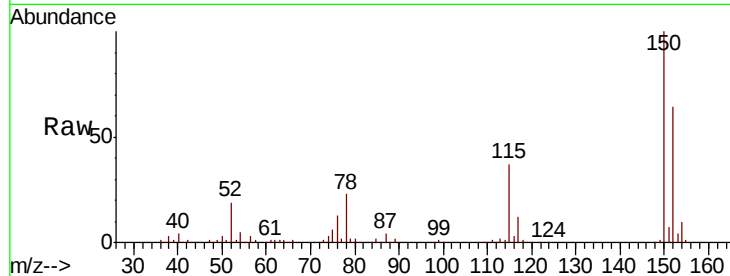


#1

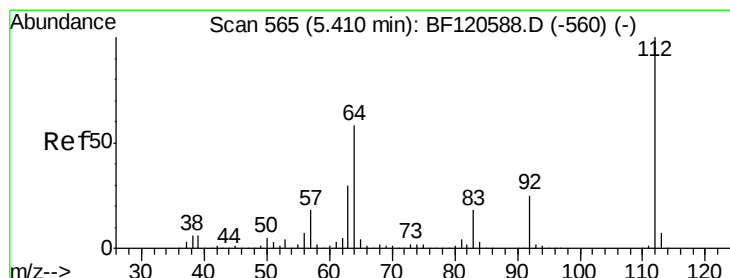
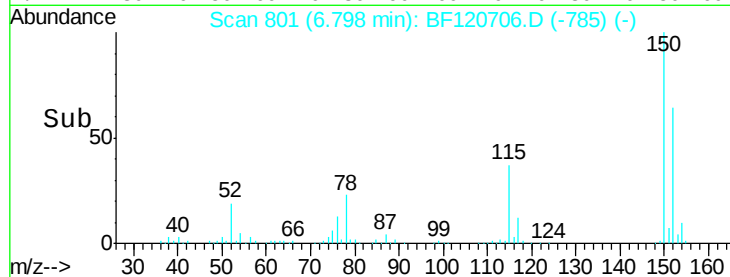
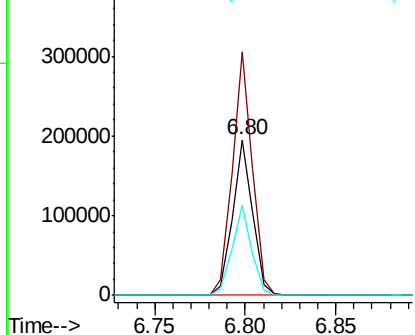
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-062420

Tot Ion:152 Resp: 150085  
Ion Ratio Lower Upper  
152 100  
150 156.5 123.2 184.8  
115 57.8 43.9 65.9



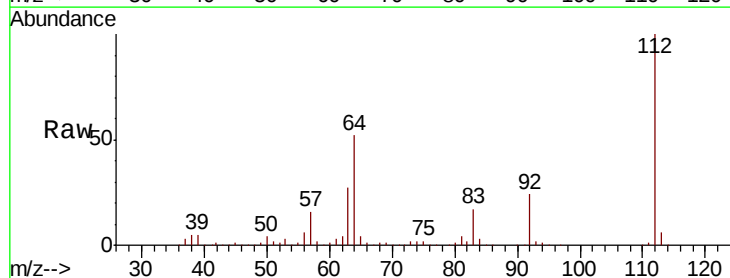
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



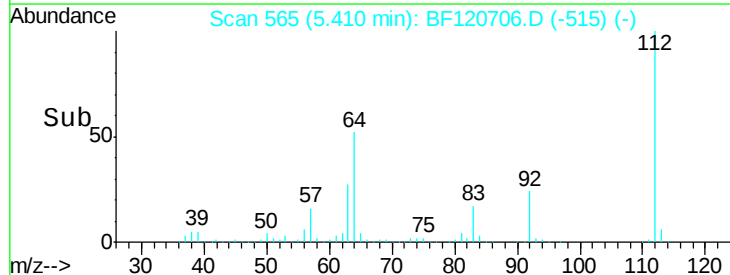
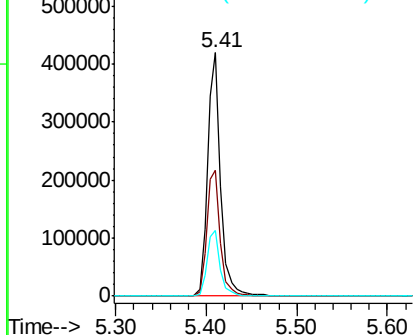
#5

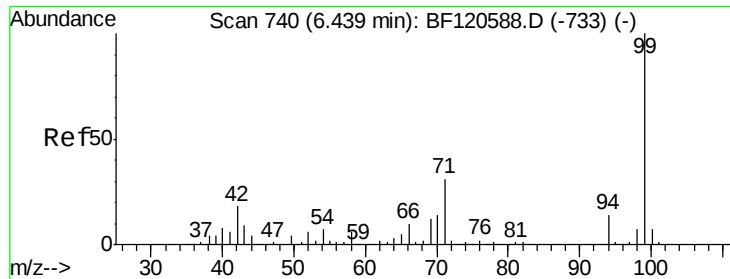
2-Fluorophenol  
Concen: 48.378 ng  
RT: 5.41 min Scan# 565  
Delta R.T. -0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

Tgt Ion:112 Resp: 423509  
Ion Ratio Lower Upper  
112 100  
64 51.7 46.1 69.1  
63 26.9 23.7 35.5



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: 47.729 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Instrument :

BNA\_F

ClientSampleId :

OR-02-062420

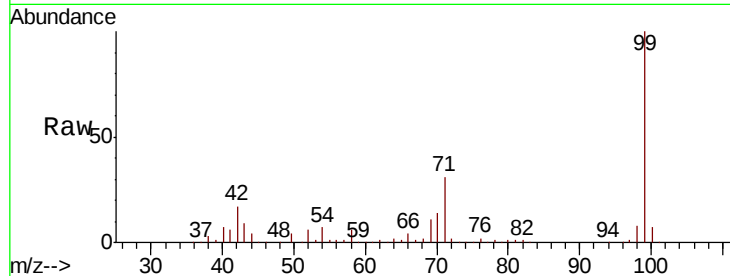
Tot Ion: 99 Resp: 520394

Ion Ratio Lower Upper

99 100

42 16.8 14.0 21.0

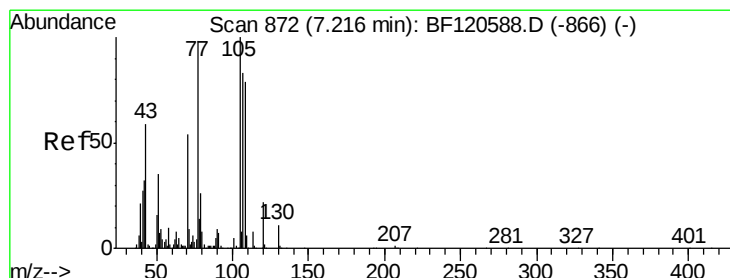
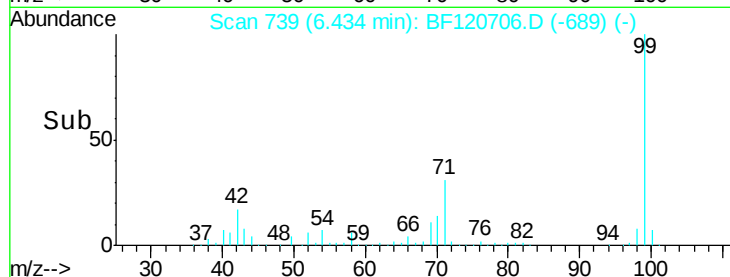
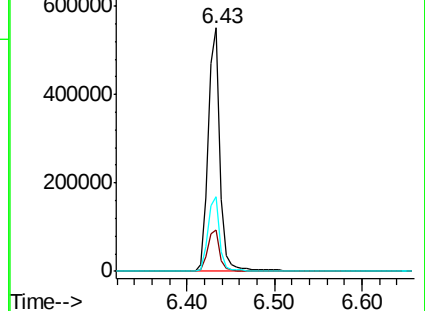
71 30.5 24.9 37.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.536 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.14 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Tgt Ion: 70 Resp: 41340

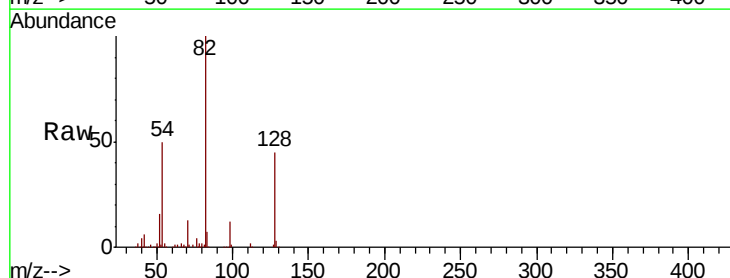
Ion Ratio Lower Upper

70 100

42 46.3 47.7 71.5#

101 0.0 7.6 11.4#

130 1.9 16.7 25.1#

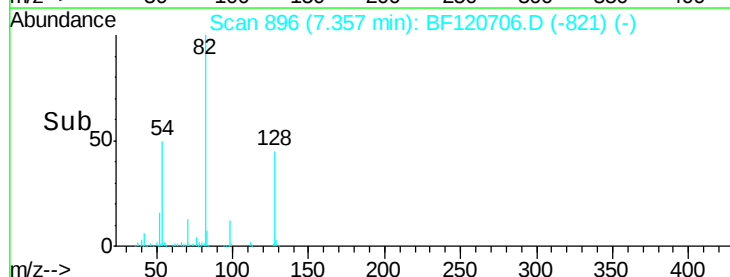
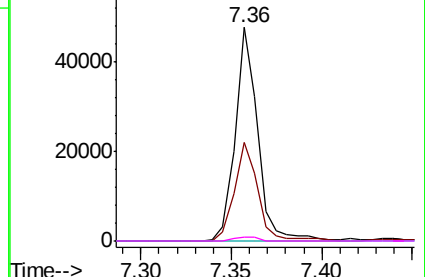


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

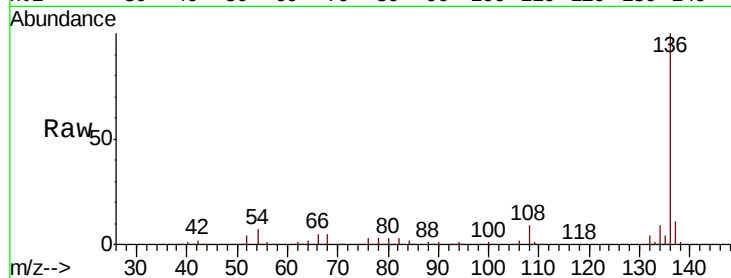




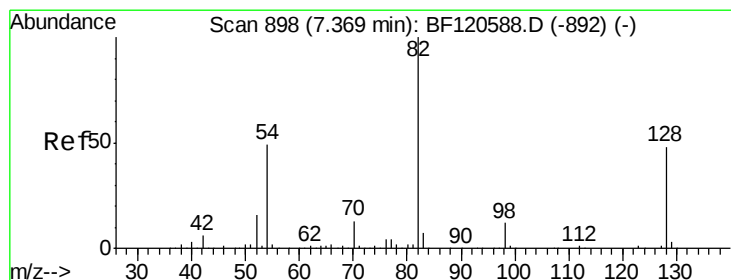
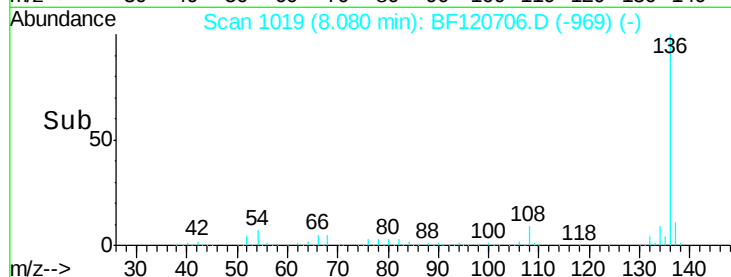
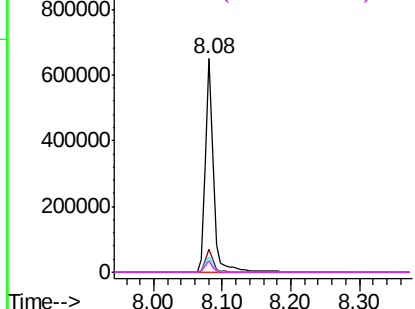
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

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BNA\_F  
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OR-02-062420

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 565417      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.0  | 8.6 13.0    |
| 54          | 7.2   | 5.8 8.6     |
| 68          | 5.4   | 4.4 6.6     |

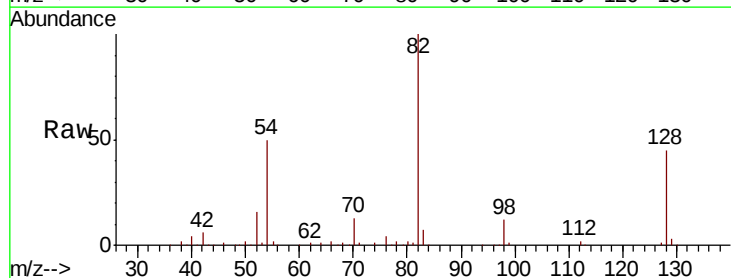


Abundance Ion 136.00 (135.70 to 136.70): E  
1000000  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

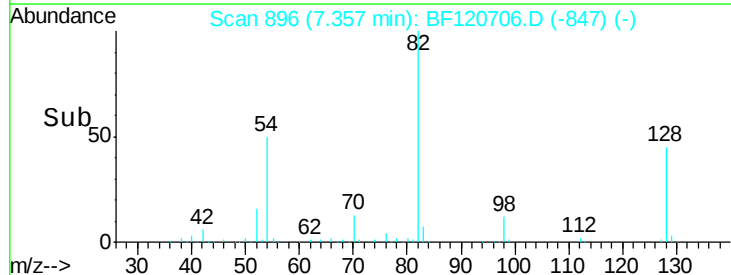
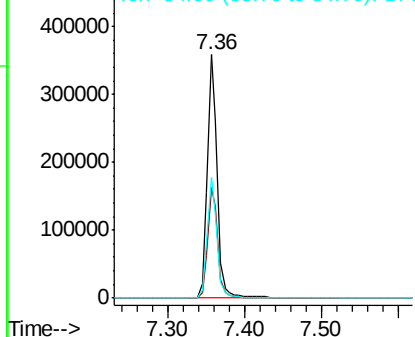


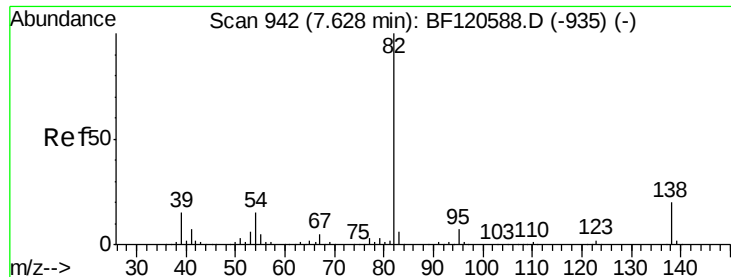
#23  
Nitrobenzene-d5  
Concen: 31.821 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 321886      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 45.4  | 38.0 57.0   |
| 54          | 49.6  | 38.8 58.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
500000  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

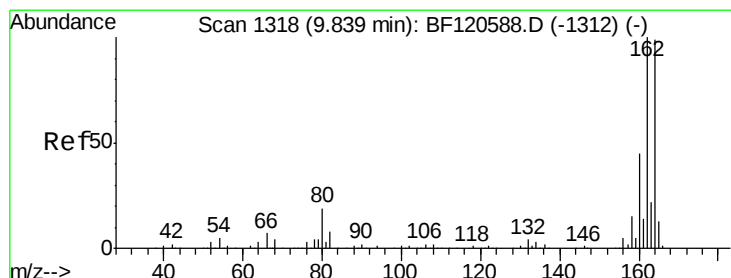
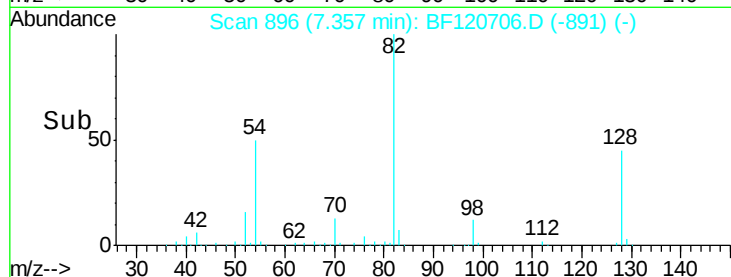
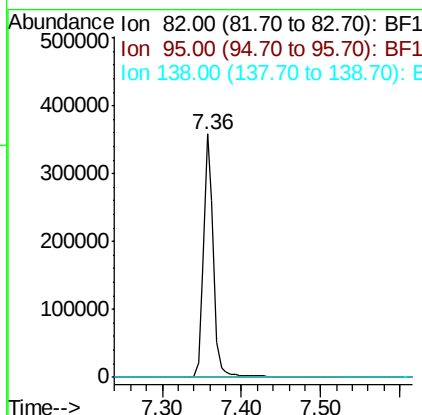
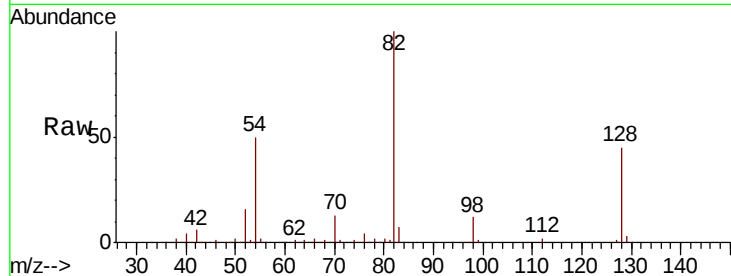




#25  
Isophorone  
Concen: 16.336 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.27 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

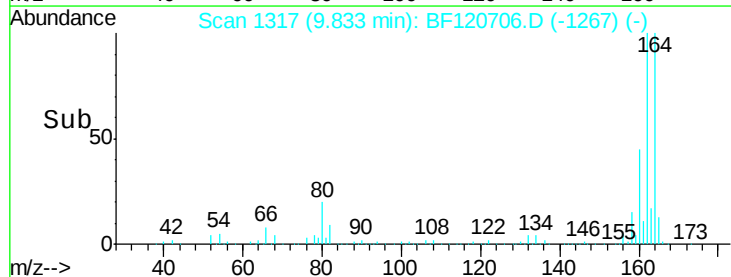
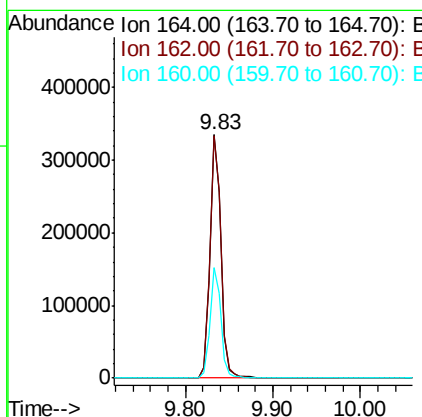
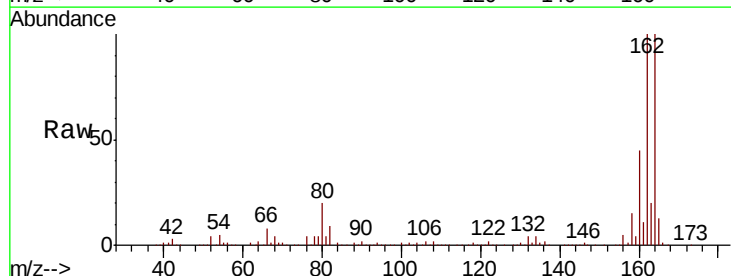
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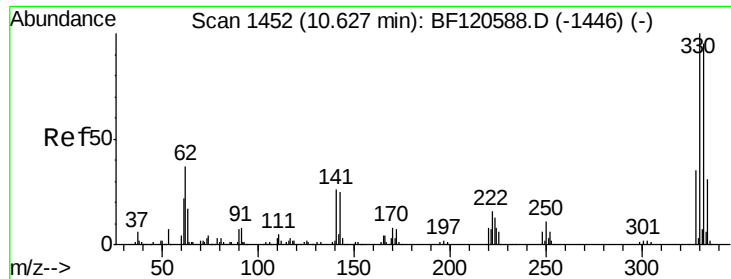
Tot Ion: 82 Resp: 321884  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 16.2 24.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

Tgt Ion: 164 Resp: 291793  
Ion Ratio Lower Upper  
164 100  
162 99.8 80.6 120.8  
160 45.2 36.2 54.2

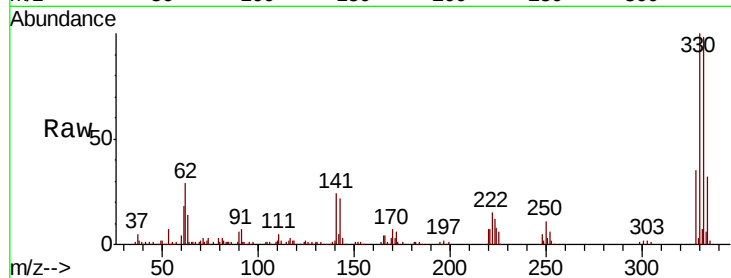




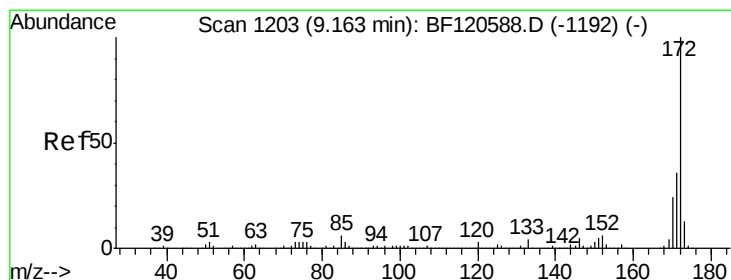
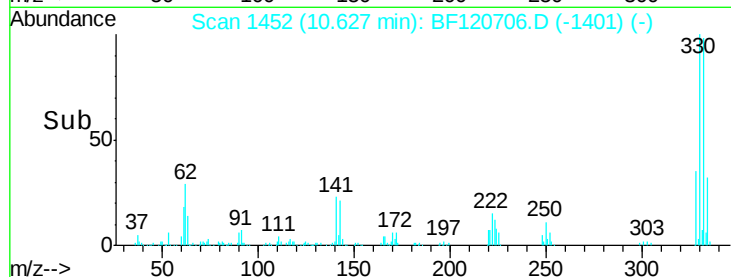
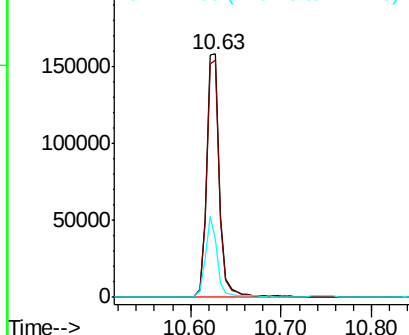
#42  
 2,4,6-Tribromophenol  
 Concen: 47.683 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.00 min  
 Lab File: BF120706.D  
 Acq: 25 Jun 2020 16:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-062420

Tot Ion:330 Resp: 161764  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 76.8 115.2  
 141 29.7 23.2 34.8

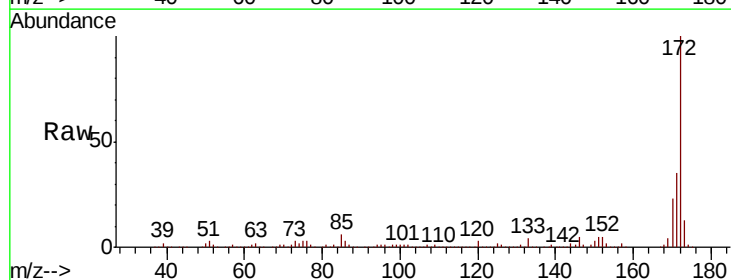


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

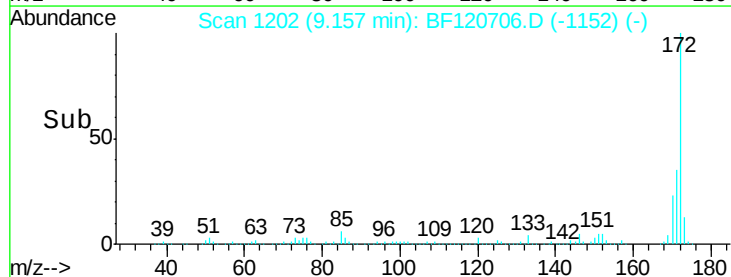
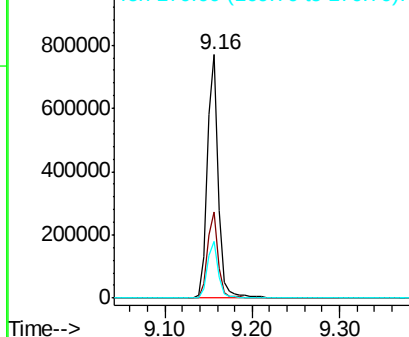


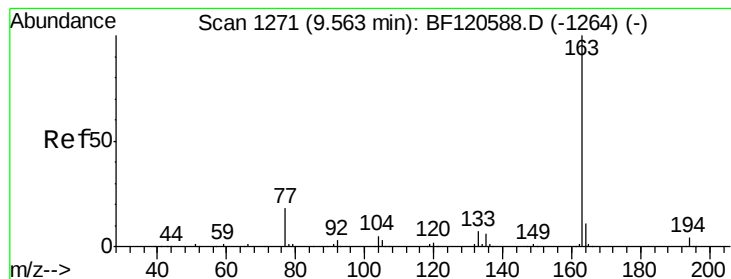
#45  
 2-Fluorobiphenyl  
 Concen: 35.337 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. -0.01 min  
 Lab File: BF120706.D  
 Acq: 25 Jun 2020 16:24

Tgt Ion:172 Resp: 673931  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 29.0 43.4  
 170 23.5 19.4 29.2



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: 3.304 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Instrument :

BNA\_F

ClientSampleId :

OR-02-062420

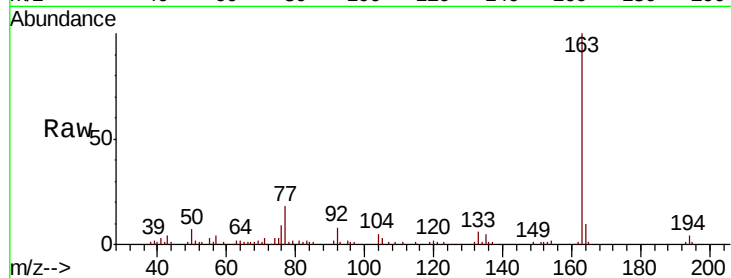
Tot Ion:163 Resp: 69428

Ion Ratio Lower Upper

163 100

194 3.9 3.1 4.7

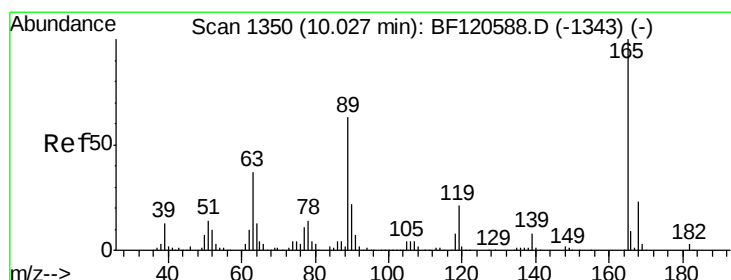
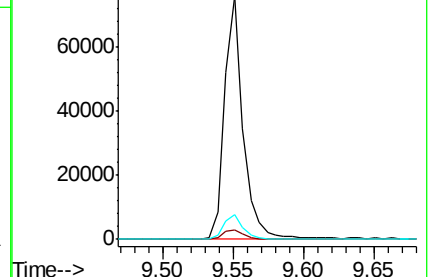
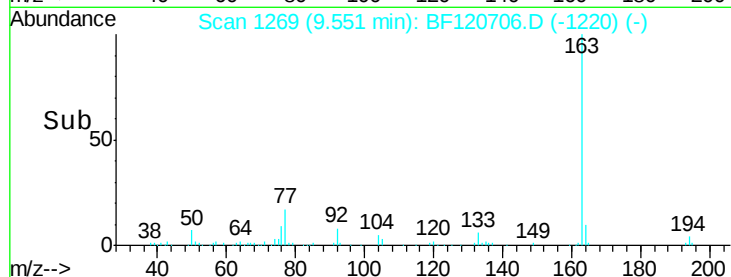
164 10.0 8.5 12.7



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



#57

2,4-Dinitrotoluene

Concen: 6.016 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.19 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Tgt Ion:165 Resp: 38018

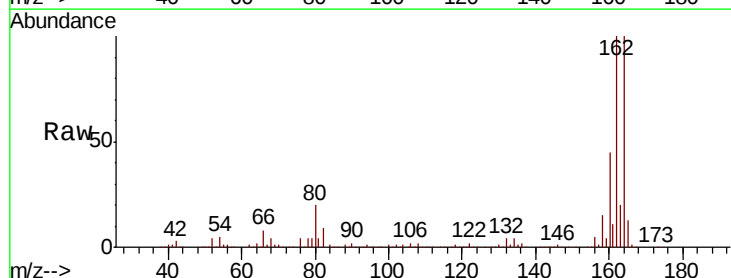
Ion Ratio Lower Upper

165 100

63 1.1 29.8 44.8#

89 1.7 50.4 75.6#

182 0.0 2.1 3.1#

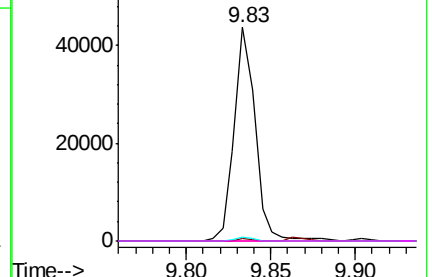
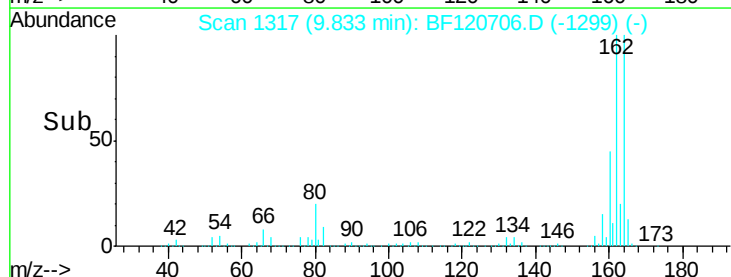


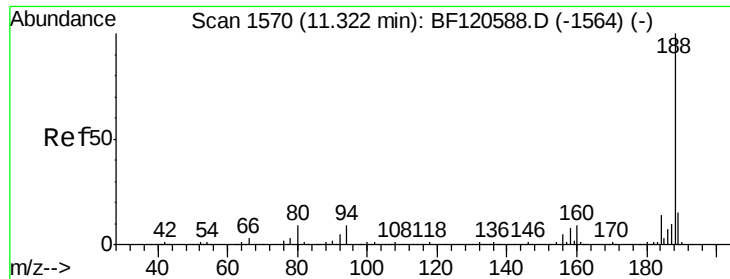
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Instrument :

BNA\_F

ClientSampleId :

OR-02-062420

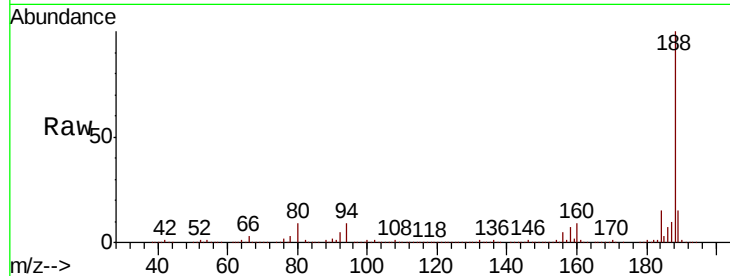
Tot Ion:188 Resp: 572582

Ion Ratio Lower Upper

188 100

94 9.1 7.2 10.8

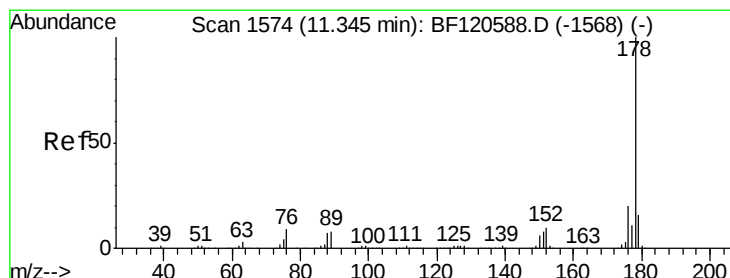
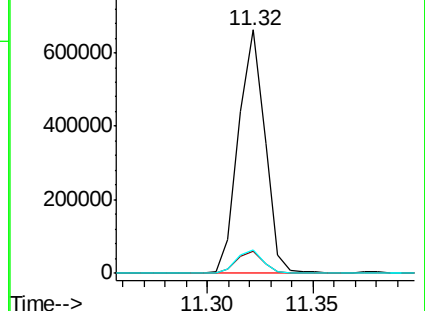
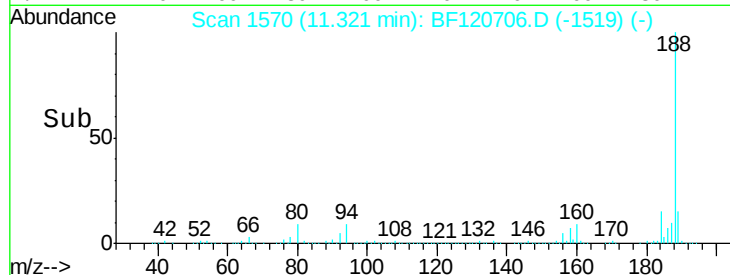
80 9.4 7.4 11.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 4.514 ng

RT: 11.34 min Scan# 1574

Delta R.T. 0.00 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

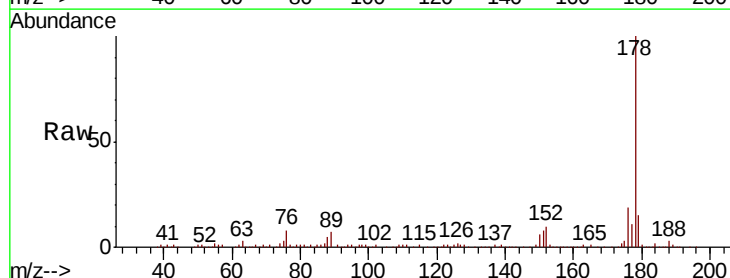
Tgt Ion:178 Resp: 128471

Ion Ratio Lower Upper

178 100

176 18.6 15.9 23.9

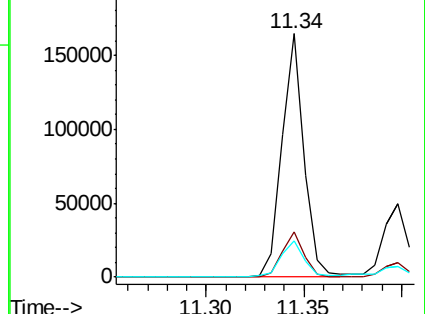
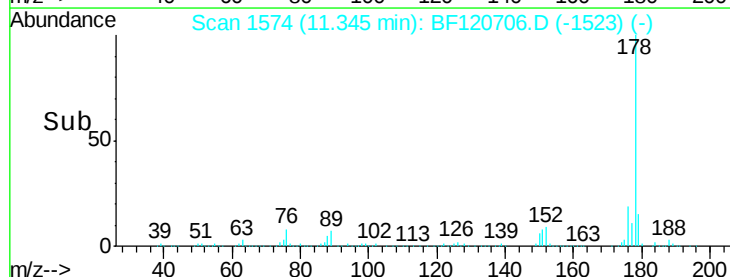
179 15.0 12.8 19.2

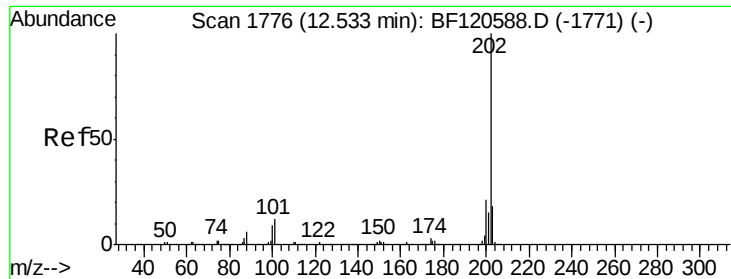


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 5.469 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.00 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Instrument :

BNA\_F

ClientSampleId :

OR-02-062420

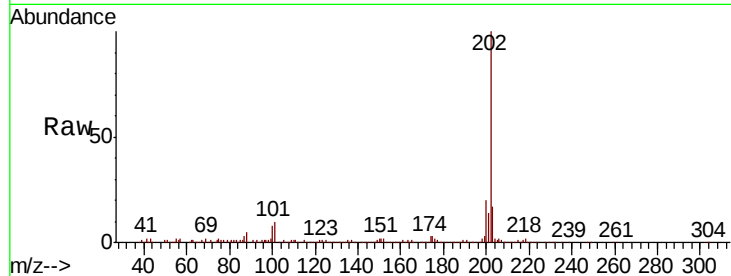
Tot Ion:202 Resp: 177968

Ion Ratio Lower Upper

202 100

101 10.5 0.0 32.0

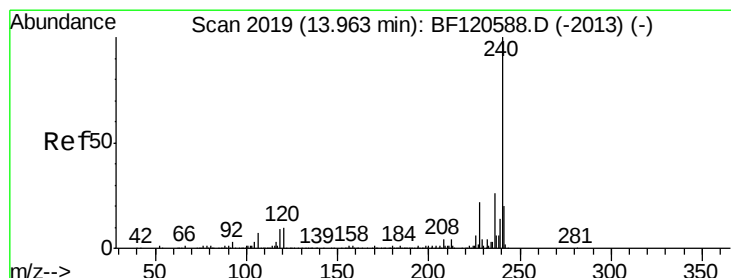
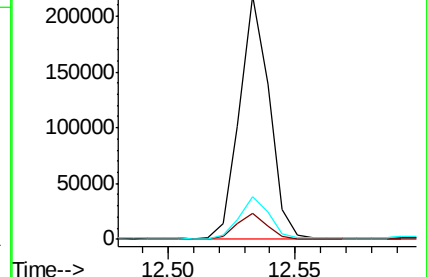
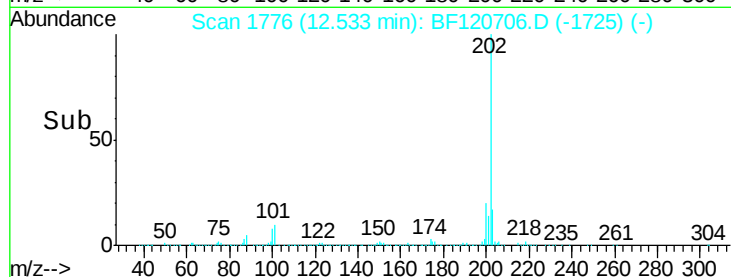
203 17.5 0.0 38.3



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: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

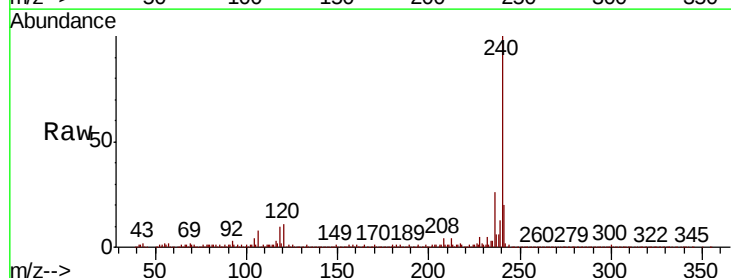
Tgt Ion:240 Resp: 403240

Ion Ratio Lower Upper

240 100

120 11.2 8.3 12.5

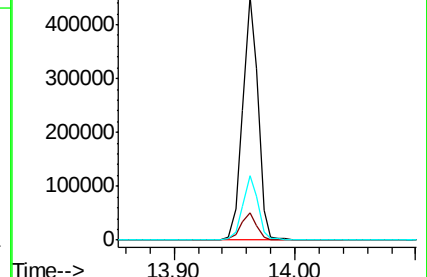
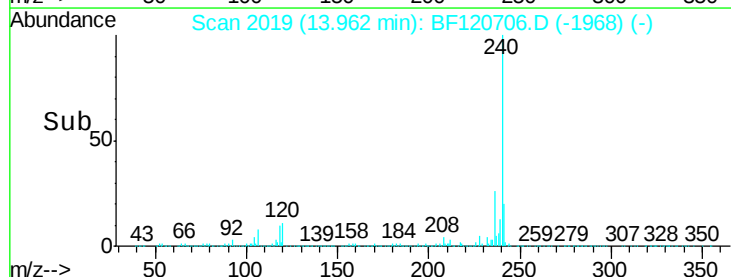
236 26.4 21.0 31.4

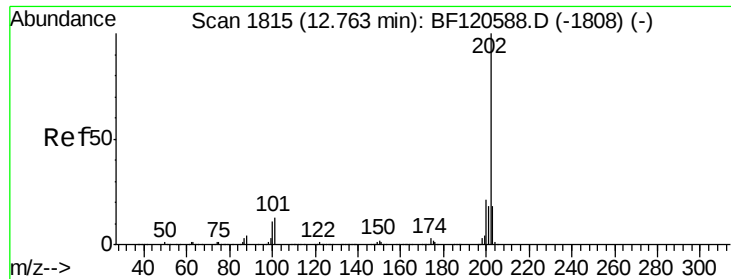


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

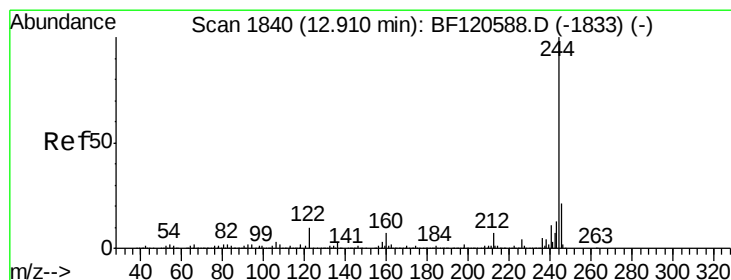
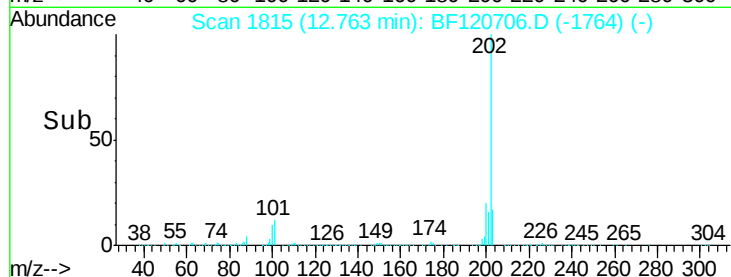
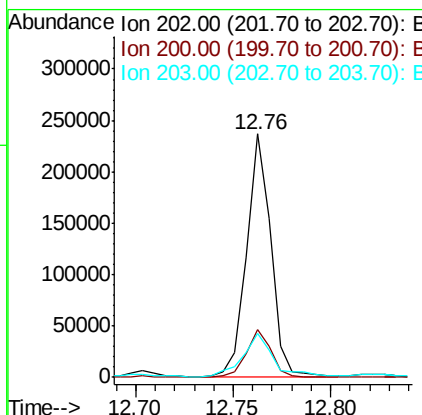
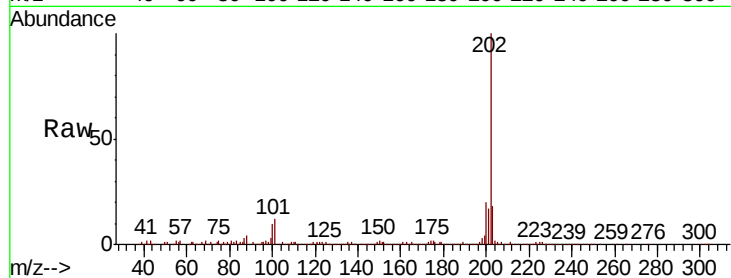




#78  
Pvrene  
Concen: 7.077 ng  
RT: 12.76 min Scan# 1815  
Delta R.T. 0.00 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

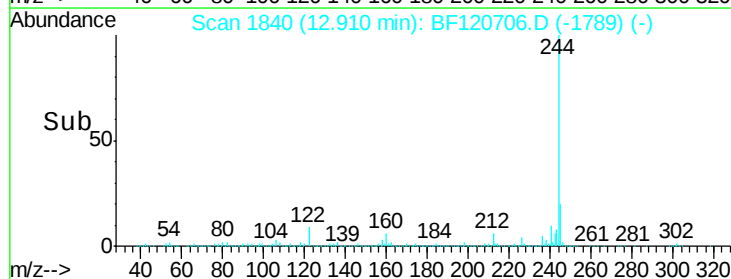
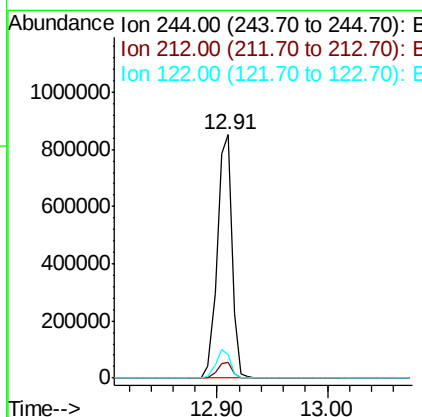
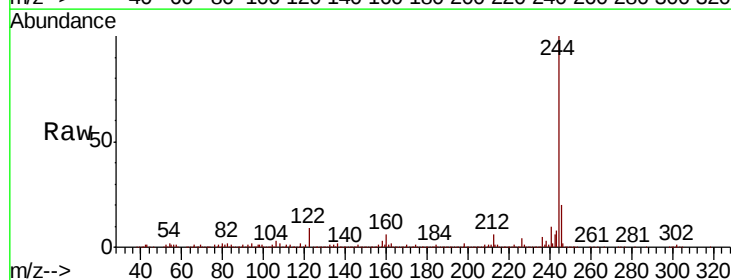
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-062420

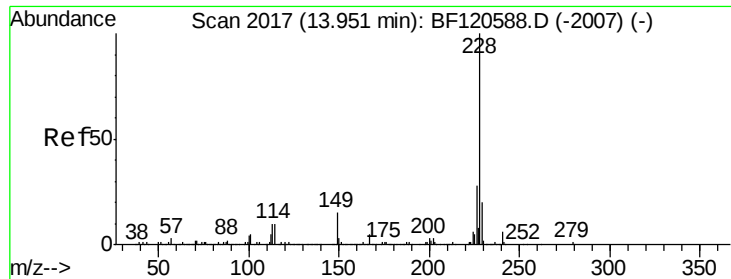
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.9  | 16.8  | 25.2  |
| 203     | 17.9  | 14.3  | 21.5  |



#79  
Terphenyl-d14  
Concen: 43.314 ng  
RT: 12.91 min Scan# 1840  
Delta R.T. 0.00 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.7   | 8.5   |
| 122     | 9.4   | 8.3   | 12.5  |





#81

Benzo(a)anthracene

Concen: 3.450 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Instrument :

BNA\_F

ClientSampleId :

OR-02-062420

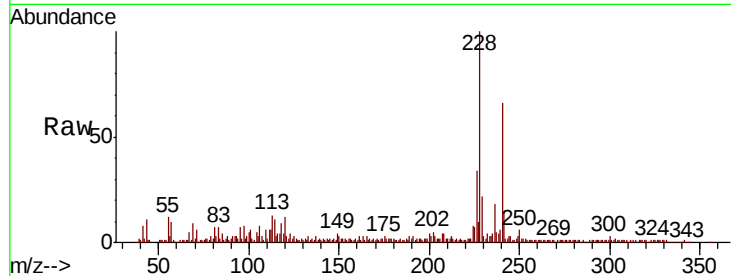
Tot Ion:228 Resp: 83572

Ion Ratio Lower Upper

228 100

226 33.7 22.5 33.7

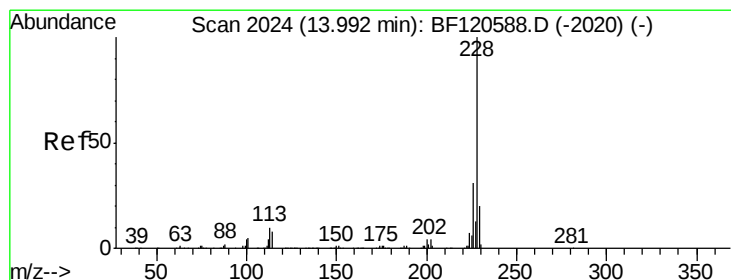
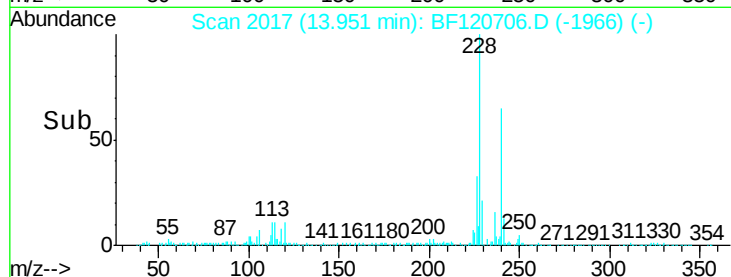
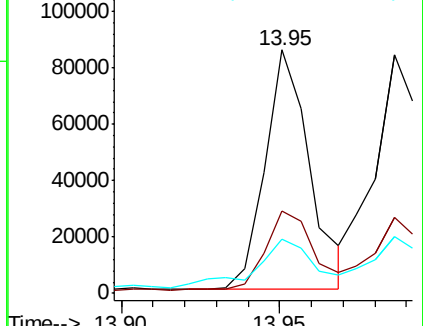
229 22.2 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 3.344 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

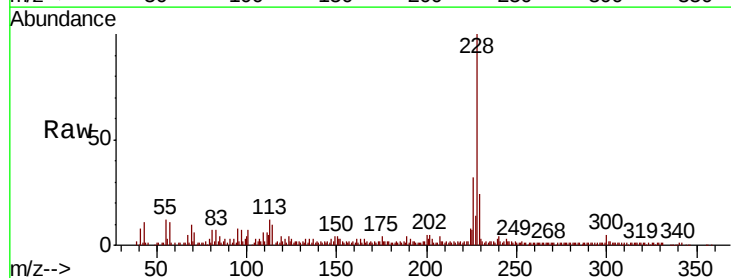
Tgt Ion:228 Resp: 83092

Ion Ratio Lower Upper

228 100

226 31.9 24.9 37.3

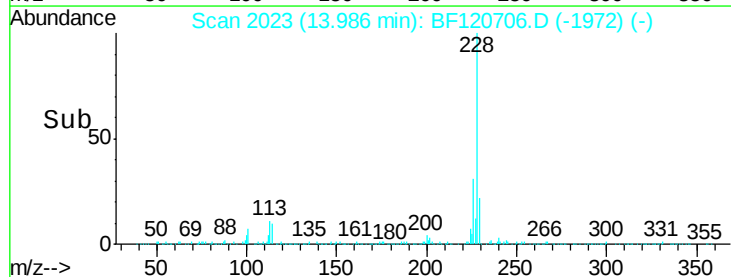
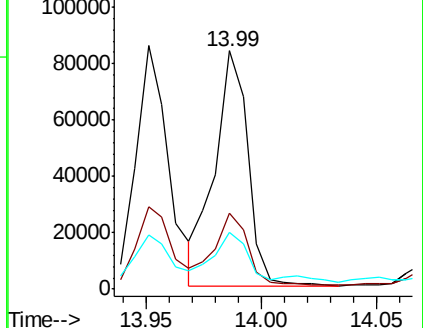
229 24.0 16.1 24.1

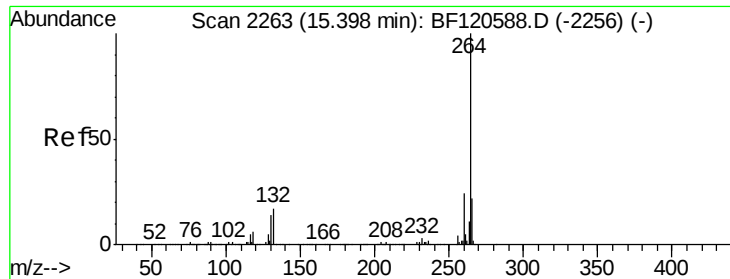


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

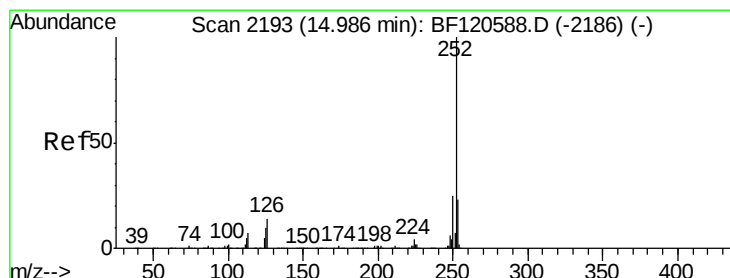
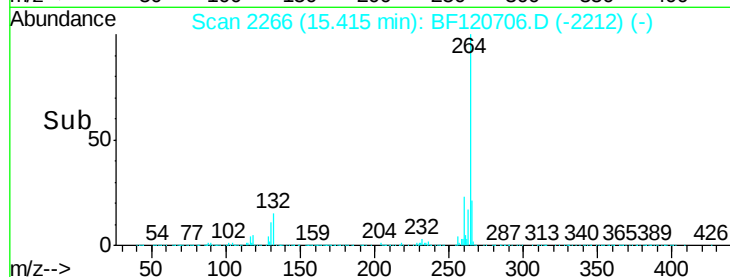
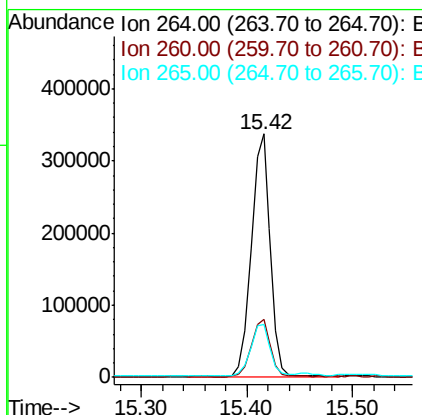
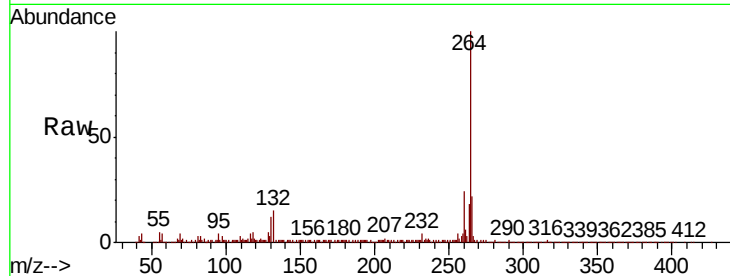




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2266  
Delta R.T. 0.02 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

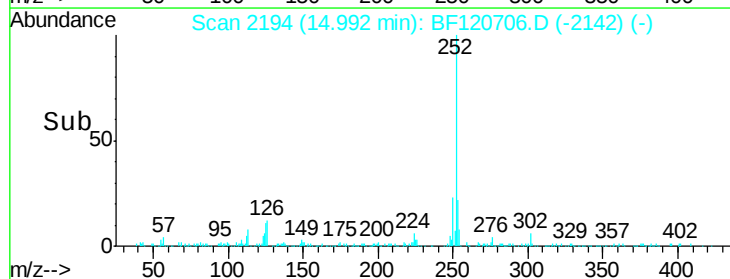
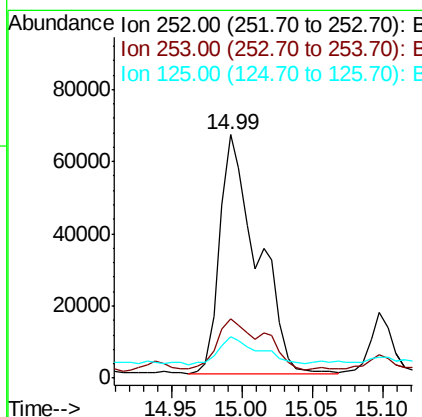
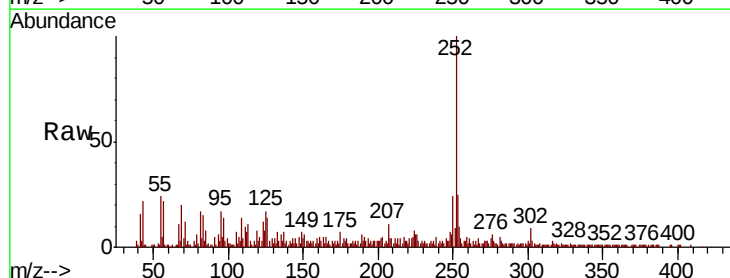
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-062420

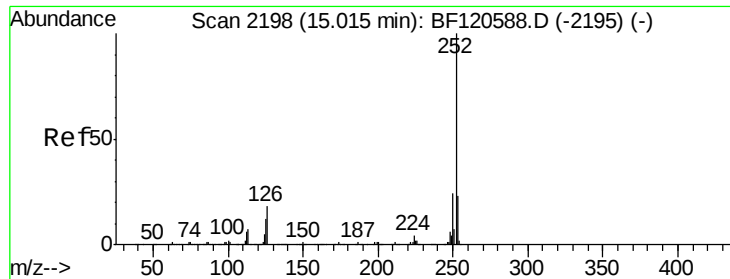
Tot Ion:264 Resp: 419374  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.3 28.9  
265 22.0 17.8 26.8



#88  
Benzo(b)fluoranthene  
Concen: 4.899 ng  
RT: 14.99 min Scan# 2194  
Delta R.T. 0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

Tgt Ion:252 Resp: 122383  
Ion Ratio Lower Upper  
252 100  
253 24.5 18.1 27.1  
125 16.9 8.3 12.5#

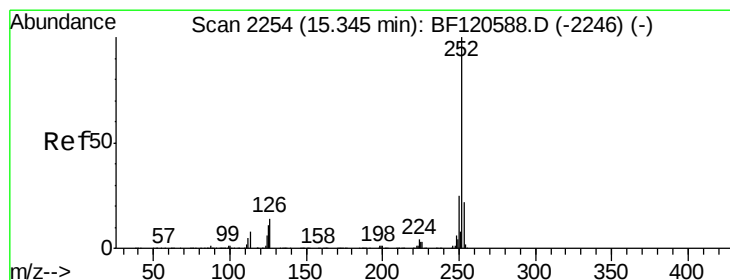
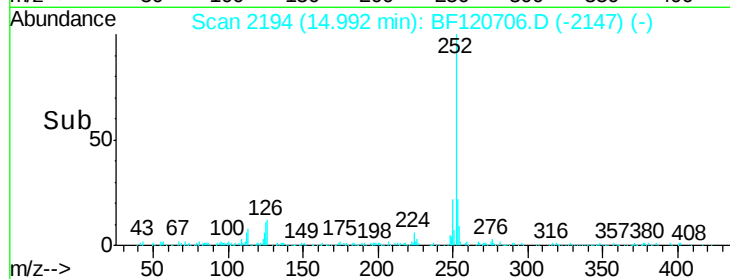
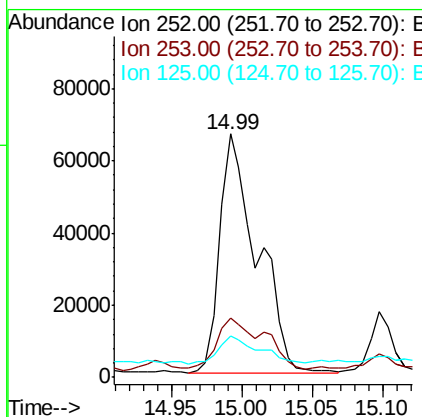
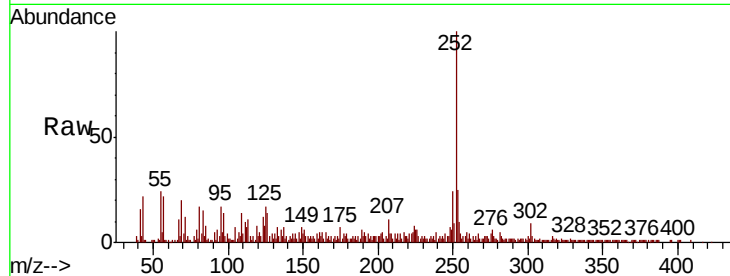




#89  
Benzo(k)fluoranthene  
Concen: 5.536 ng  
RT: 14.99 min Scan# 2194  
Delta R.T. -0.02 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

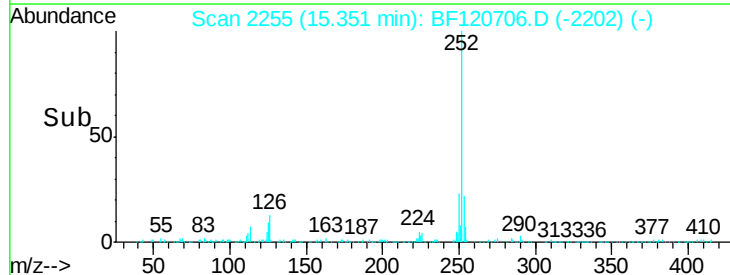
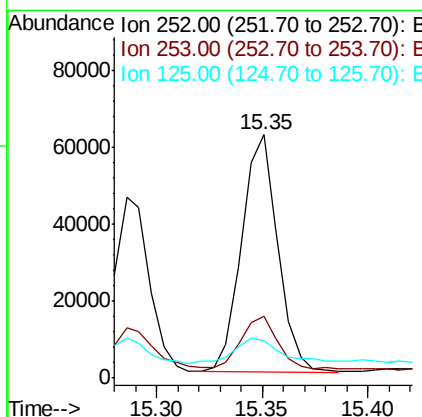
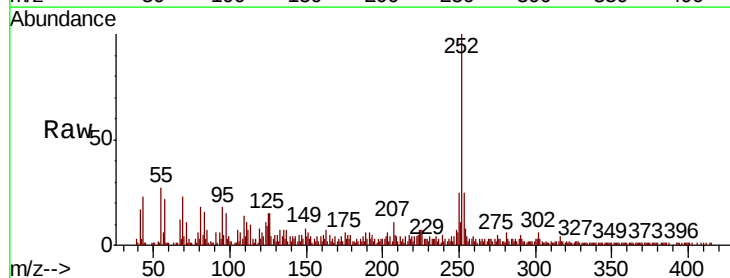
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-062420

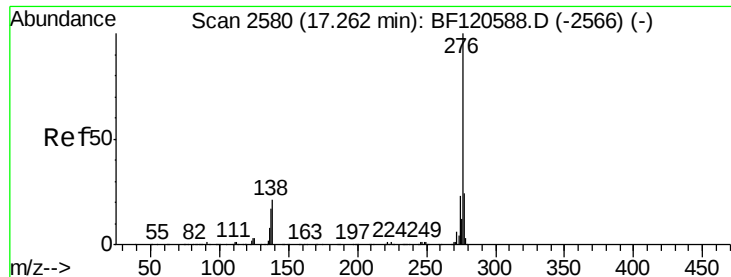
Tot Ion:252 Resp: 122383  
Ion Ratio Lower Upper  
252 100  
253 24.5 18.0 27.0  
125 16.9 8.3 12.5#



#90  
Benzo(a)pyrene  
Concen: 3.274 ng  
RT: 15.35 min Scan# 2255  
Delta R.T. 0.01 min  
Lab File: BF120706.D  
Acq: 25 Jun 2020 16:24

Tgt Ion:252 Resp: 73204  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.8 26.8  
125 15.3 8.6 12.8#





#92

Benzo(a,h,i)perylene

Concen: 2.122 ng

RT: 17.27 min Scan# 2582

Delta R.T. 0.02 min

Lab File: BF120706.D

Acq: 25 Jun 2020 16:24

Instrument :

BNA\_F

ClientSampleId :

OR-02-062420

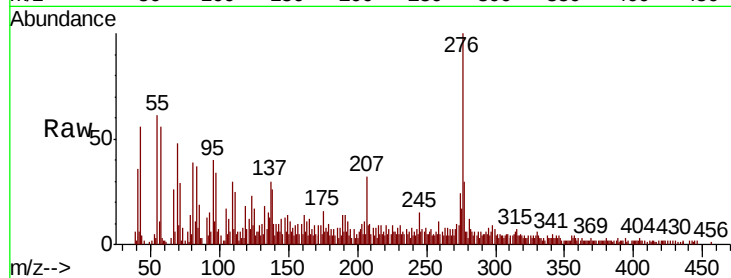
Tot Ion:276 Resp: 43756

Ion Ratio Lower Upper

276 100

277 30.3 19.6 29.4#

138 26.2 16.5 24.7#



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

