

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090920\  
 Data File : BF121544.D  
 Acq On : 9 Sep 2020 13:01  
 Operator : JU/CG  
 Sample : L3877-02DL2 250X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1DL2

Quant Time: Sep 09 13:26:22 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 17:52:18 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 292881   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 1121098  | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.87  | 164  | 596135   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 1147447  | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.99 | 240  | 1015434  | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.46 | 264  | 978598   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 1112     | 0.06 | ng    | -0.01    |
| 7) Phenol-d6                | 6.46  | 99   | 1592     | 0.07 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 2222     | 0.14 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 705      | 0.12 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 3262     | 0.09 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.94 | 244  | 5419     | 0.11 | ng    | -0.02    |

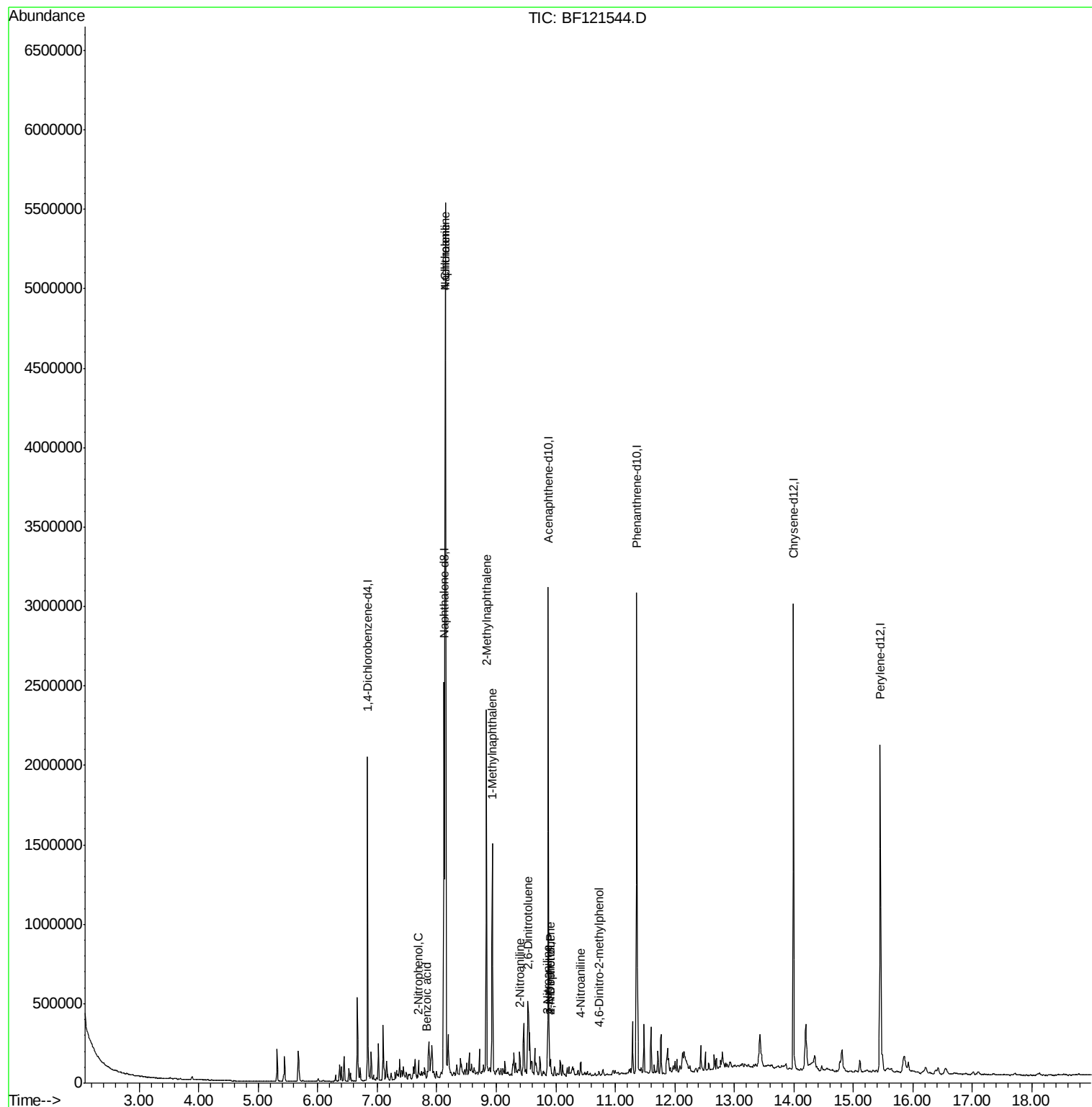
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.40  | 77   | 3735     | Below Cal | #     | 1      |
| 26) 2-Nitrophenol              | 7.69  | 139  | 335      | 4.811     | ng    | # 1    |
| 31) Naphthalene                | 8.15  | 128  | 2507293  | 45.048    | ng    | # 99   |
| 32) Benzoic acid               | 7.83  | 122  | 237      | 6.691     | ng    | # 1    |
| 33) 4-Chloroaniline            | 8.15  | 127  | 343669   | 13.863    | ng    | # 33   |
| 37) 2-Methylnaphthalene        | 8.83  | 142  | 598133   | 16.220    | ng    | # 98   |
| 38) 1-Methylnaphthalene        | 8.93  | 142  | 355474   | 10.209    | ng    | # 99   |
| 48) 2-Nitroaniline             | 9.39  | 65   | 685      | 6.704     | ng    | # 17   |
| 51) 2,6-Dinitrotoluene         | 9.55  | 165  | 2678     | 6.721     | ng    | # 72   |
| 53) 3-Nitroaniline             | 9.85  | 138  | 110      | 5.462     | ng    | # 84   |
| 54) 2,4-Dinitrophenol          | 9.82  | 184  | 120      | Below Cal | #     | 1      |
| 56) 4-Nitrophenol              | 9.91  | 139  | 968      | 7.967     | ng    | # 84   |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 3229     | 7.566     | ng    | # 64   |
| 62) 4-Nitroaniline             | 10.42 | 138  | 143      | 4.548     | ng    | # 20   |
| 65) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 809      | 5.813     | ng    | # 1    |

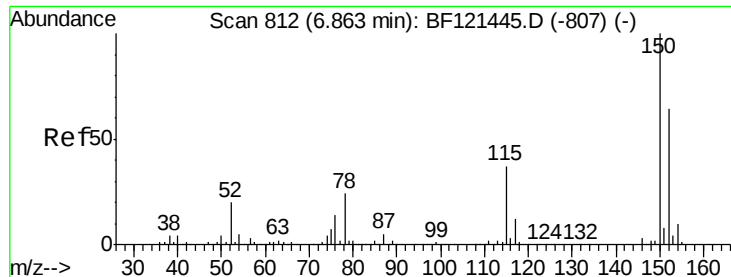
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090920\  
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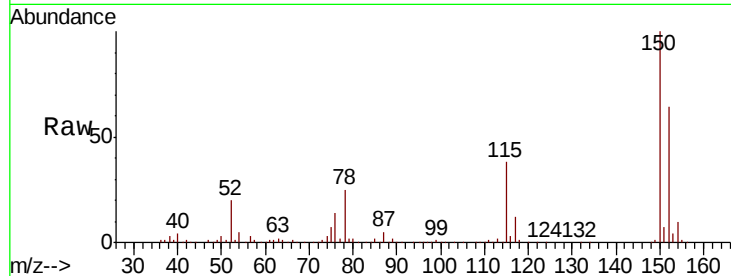


#1

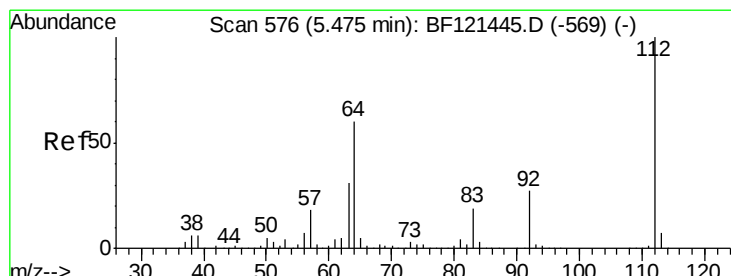
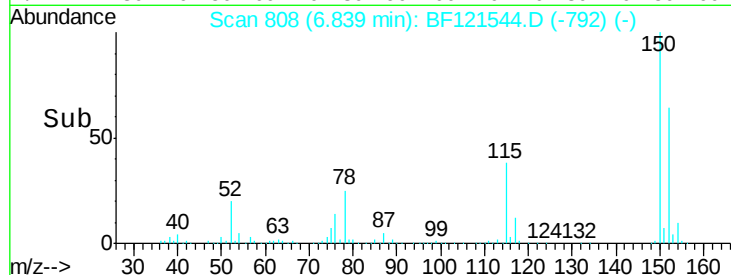
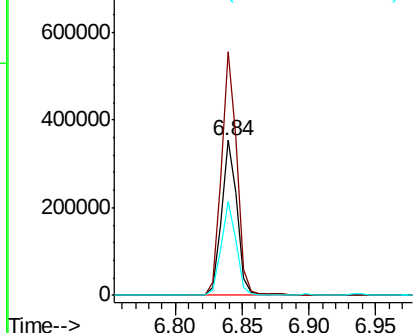
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1DL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.1 | 126.1 | 189.1 |
| 115     | 60.4  | 48.4  | 72.6  |



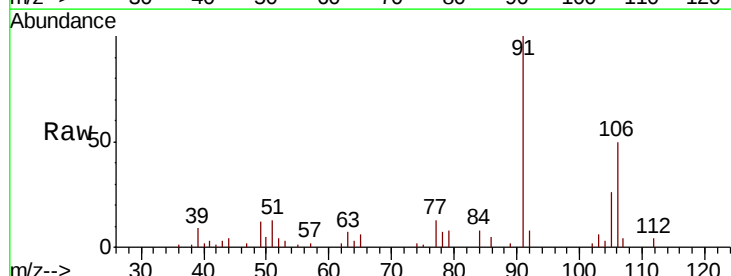
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



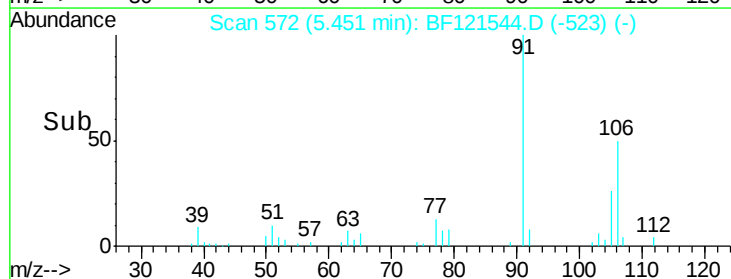
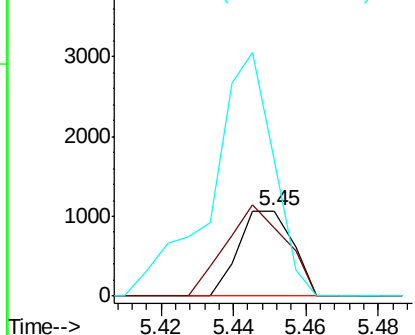
#5

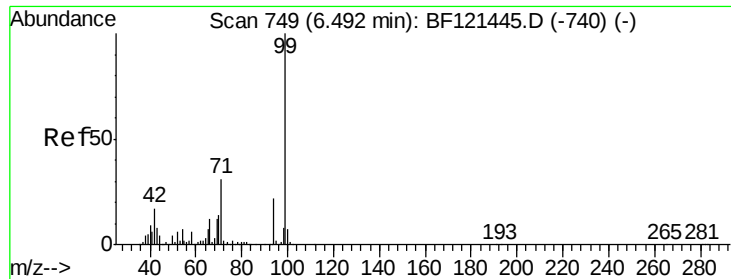
2-Fluorophenol  
Concen: 0.064 ng  
RT: 5.45 min Scan# 572  
Delta R.T. -0.01 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 80.7  | 46.0  | 69.0# |
| 63      | 159.2 | 23.4  | 35.2# |



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: 0.065 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

Instrument :

BNA\_F

ClientSampleId :

TP-1DL2

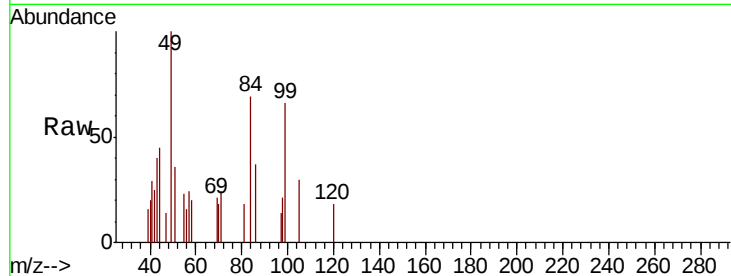
Tot Ion: 99 Resp: 1592

Ion Ratio Lower Upper

99 100

42 37.9 13.0 19.4#

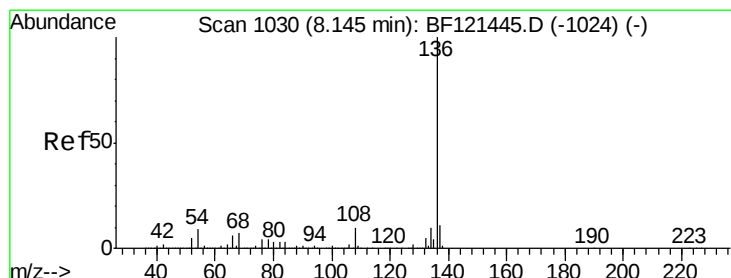
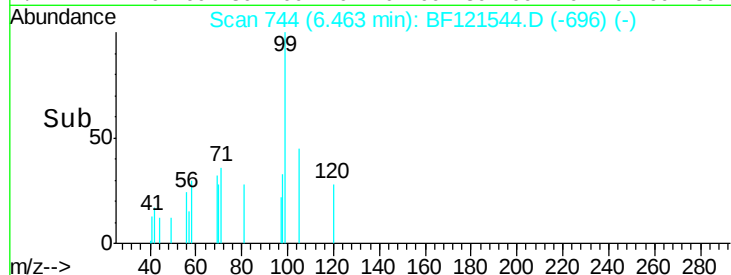
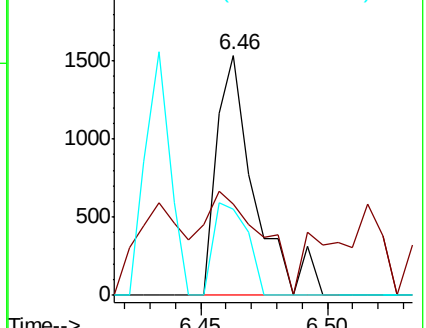
71 35.9 24.8 37.2



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

Tgt Ion: 136 Resp: 1121098

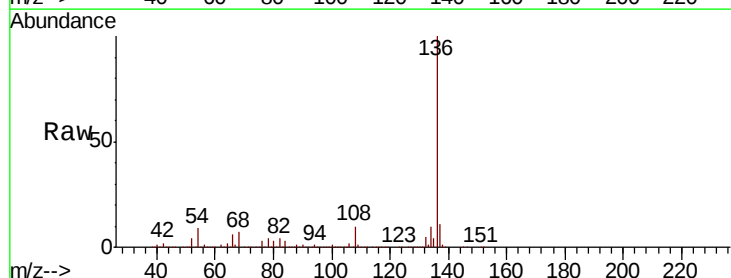
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 8.7 6.2 9.4

68 7.0 5.1 7.7

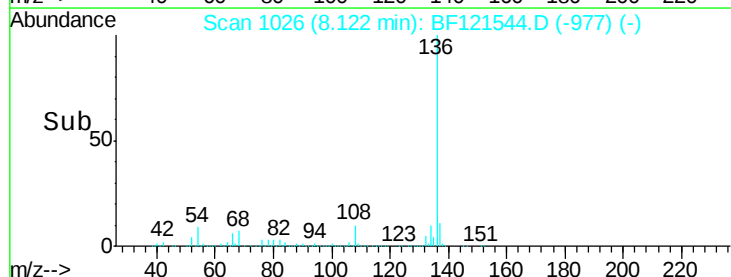
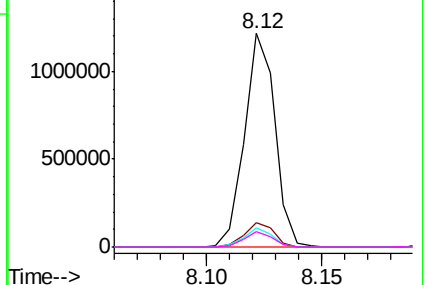


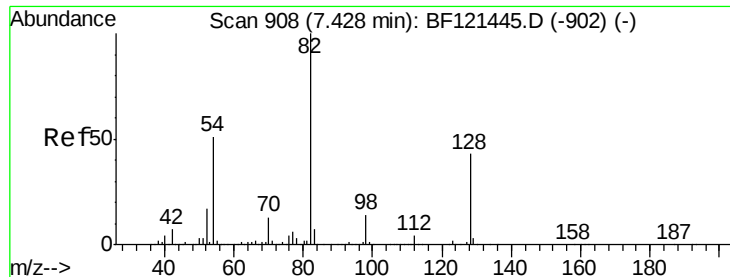
Abundance Ion 136.00 (135.70 to 136.70): E

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

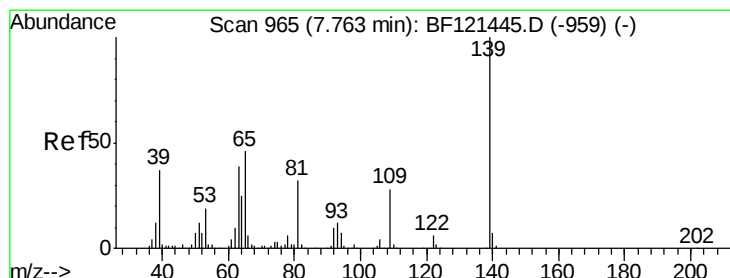
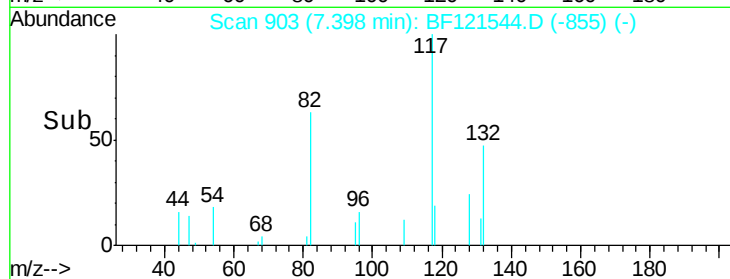
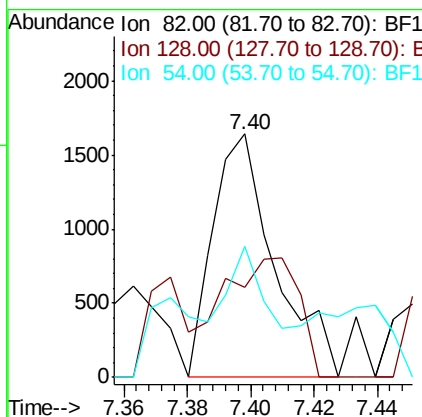
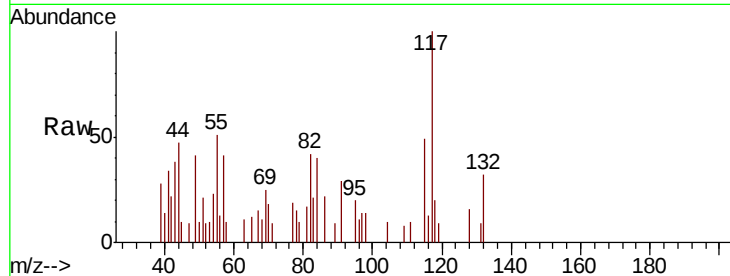




#23  
Nitrobenzene-d5  
Concen: 0.135 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.02 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

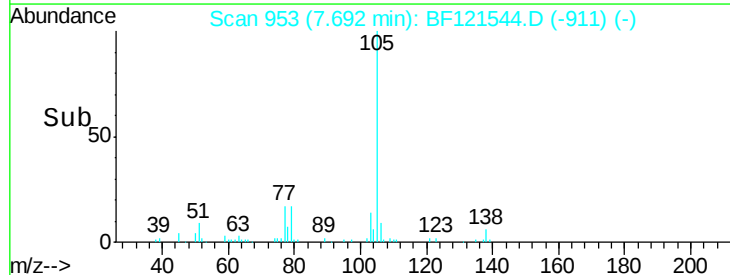
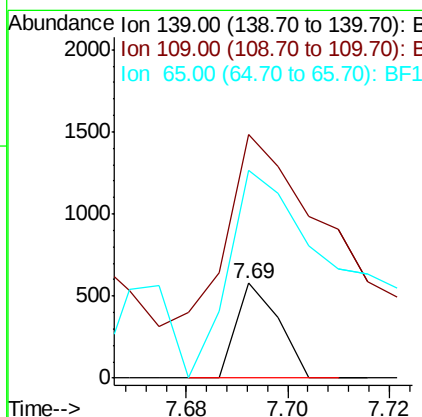
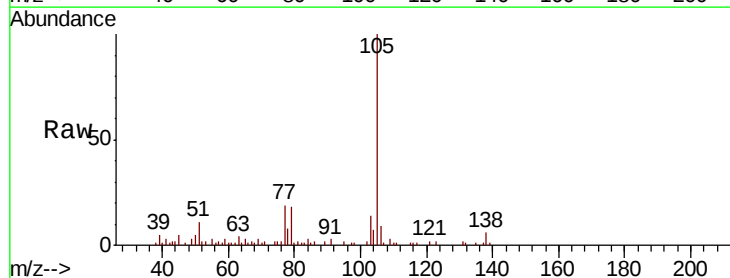
Instrument :  
BNA\_F  
ClientSampled :  
TP-1DL2

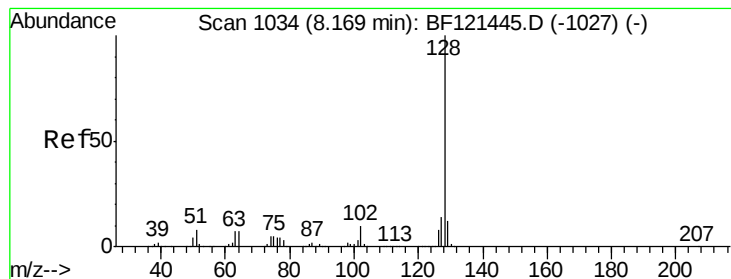
| Tot Ion   | 82    | Resp  | 2222  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 37.2  | 37.3  | 55.9# |
| 54        | 54.0  | 39.0  | 58.6  |



#26  
2-Nitrophenol  
Concen: 4.811 ng  
RT: 7.69 min Scan# 953  
Delta R.T. -0.05 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

| Tgt Ion   | 139   | Resp  | 335   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 257.0 | 22.0  | 33.0# |
| 65        | 219.1 | 39.3  | 58.9# |





#31

Naphthalene

Concen: 45.048 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

Instrument :

BNA\_F

ClientSampleId :

TP-1DL2

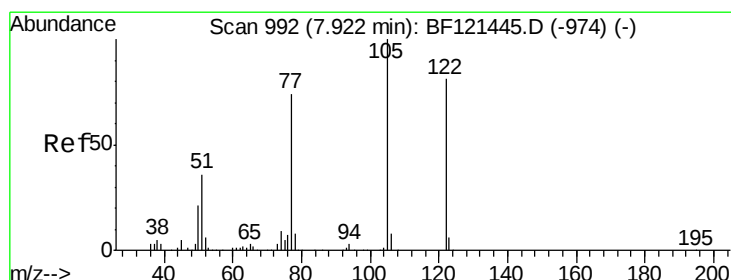
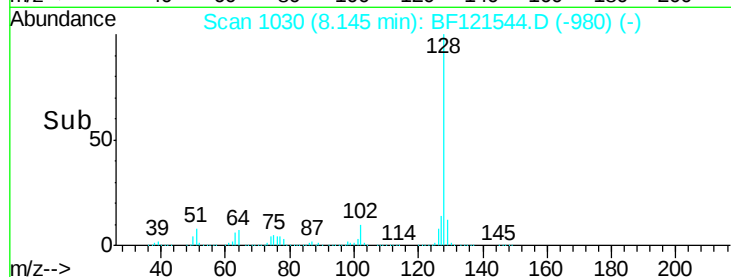
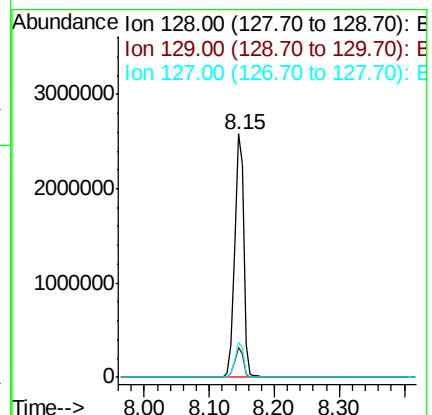
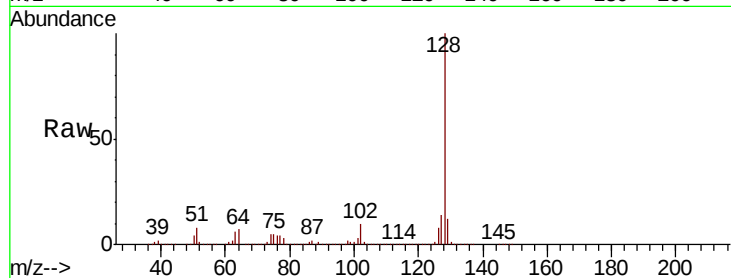
Tot Ion:128 Resp: 2507293

Ion Ratio Lower Upper

128 100

129 12.2 9.7 14.5

127 14.4 11.1 16.7



#32

Benzoic acid

Concen: 6.691 ng

RT: 7.83 min Scan# 976

Delta R.T. -0.09 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

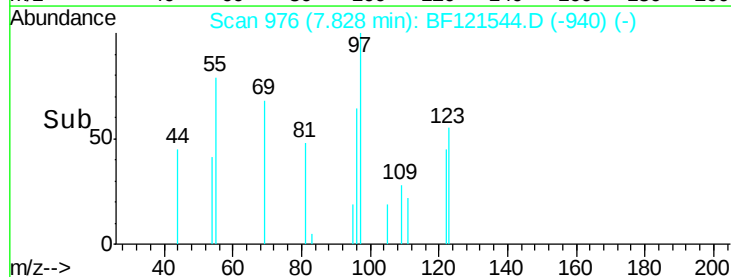
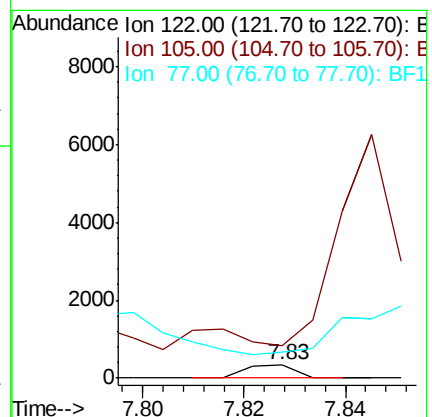
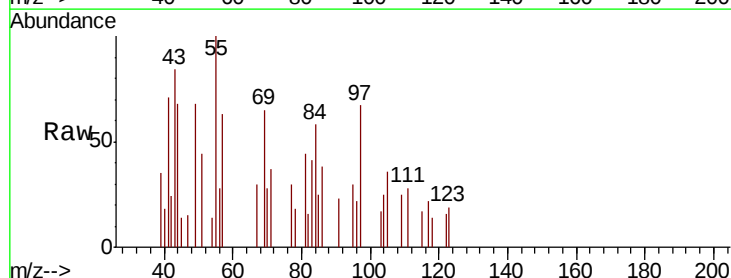
Tgt Ion:122 Resp: 237

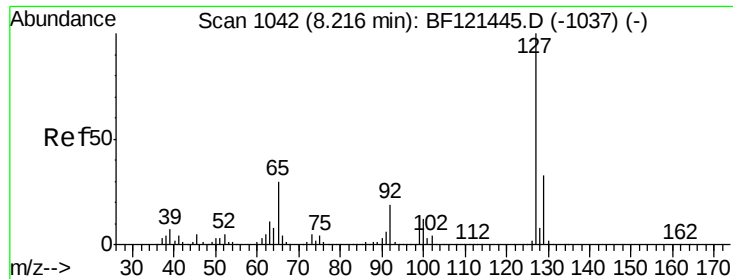
Ion Ratio Lower Upper

122 100

105 232.7 102.2 142.2#

77 190.7 69.8 109.8#

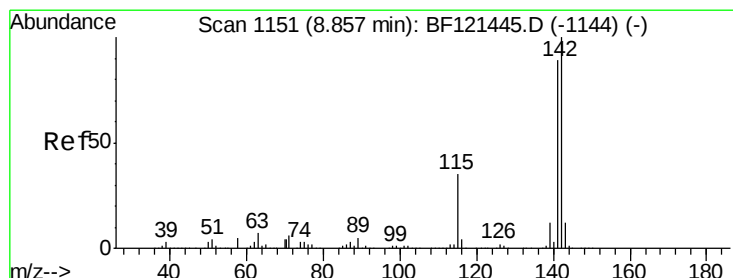
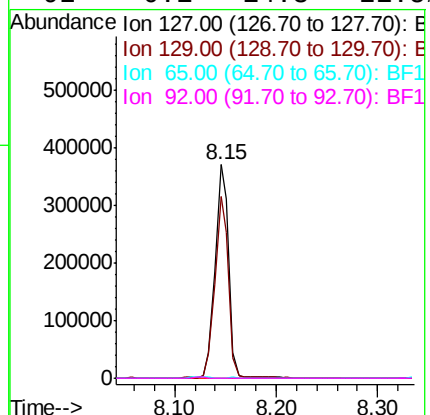
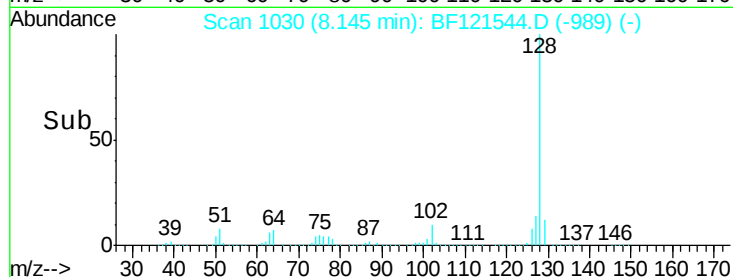
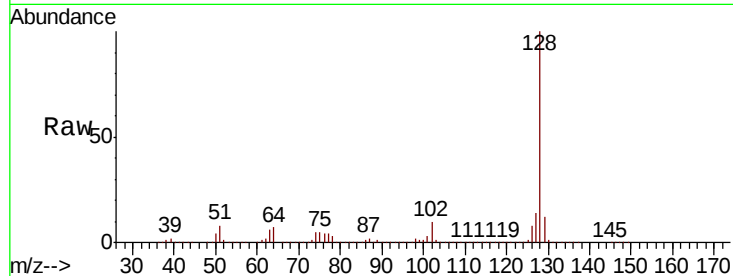




#33  
4-Chloroaniline  
Concen: 13.863 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.06 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

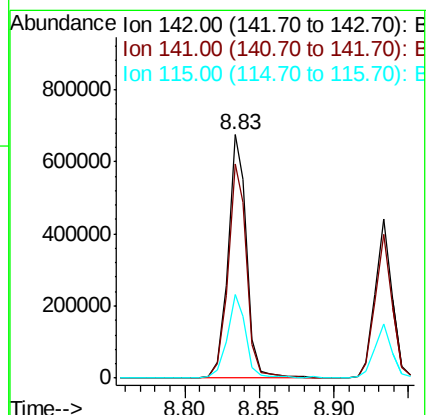
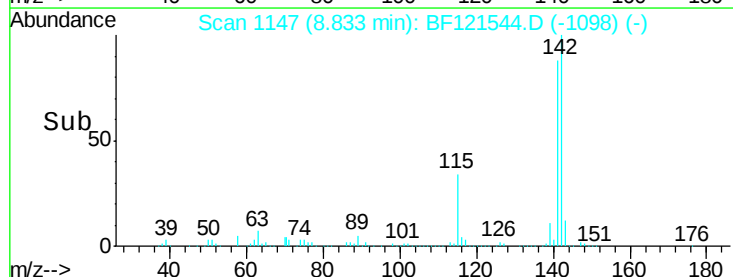
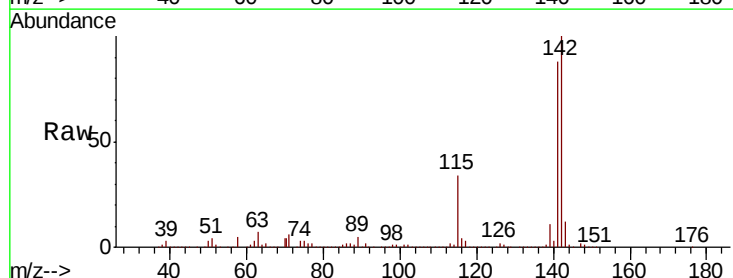
Instrument :  
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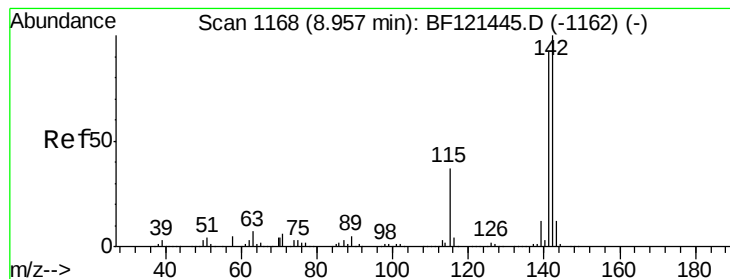
Tot Ion:127 Resp: 343669  
Ion Ratio Lower Upper  
127 100  
129 85.0 26.2 39.4#  
65 0.0 21.8 32.6#  
92 0.1 14.3 21.5#



#37  
2-Methylnaphthalene  
Concen: 16.220 ng  
RT: 8.83 min Scan# 1147  
Delta R.T. -0.01 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

Tgt Ion:142 Resp: 598133  
Ion Ratio Lower Upper  
142 100  
141 87.9 71.9 107.9  
115 34.5 27.7 41.5

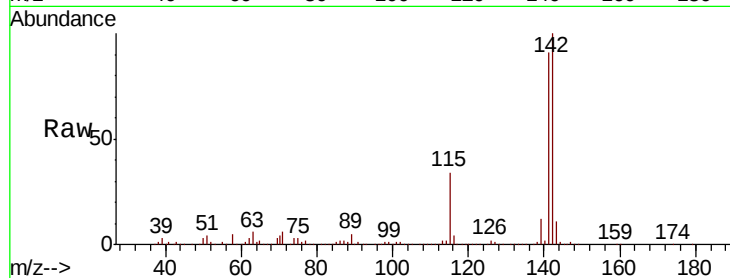




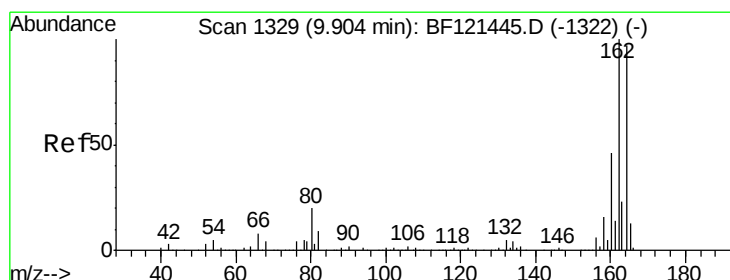
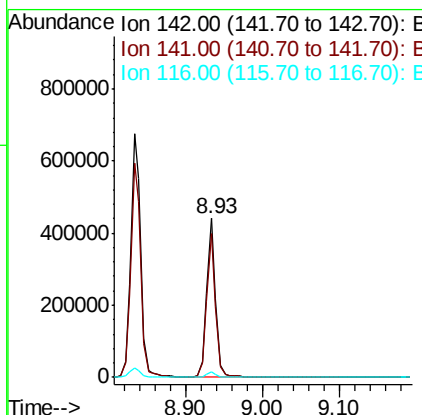
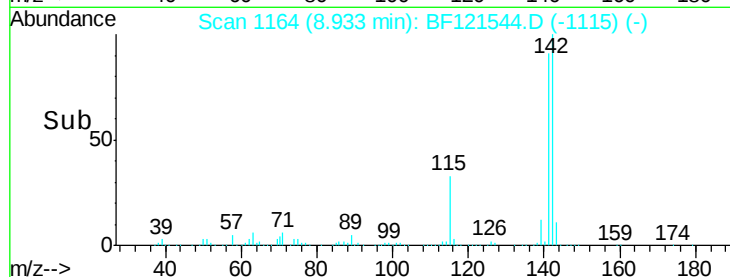
#38  
 1-Methylnaphthalene  
 Concen: 10.209 ng  
 RT: 8.93 min Scan# 1164  
 Delta R.T. -0.01 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1DL2

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 142   | Resp: | 355474 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 90.8  | 73.7  | 110.5  |
| 116      | 3.6   | 3.0   | 4.4    |

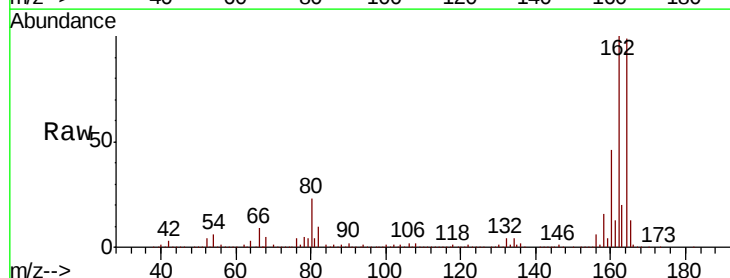


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 116.00 (115.70 to 116.70): E

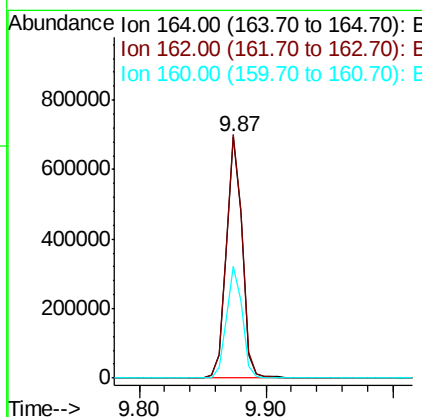
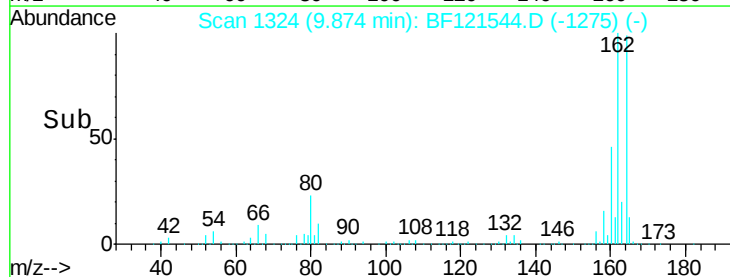


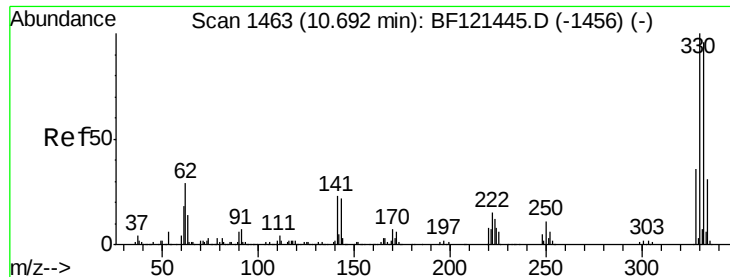
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. -0.01 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 596135 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 100.8 | 80.5  | 120.7  |
| 160      | 46.4  | 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: 0.117 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

Instrument :

BNA\_F

ClientSampleId :

TP-1DL2

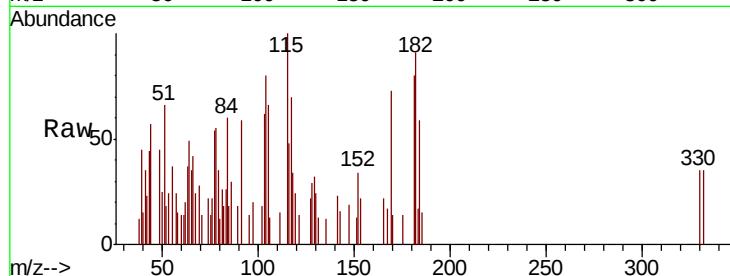
Tot Ion:330 Resp: 705

Ion Ratio Lower Upper

330 100

332 101.1 76.2 114.2

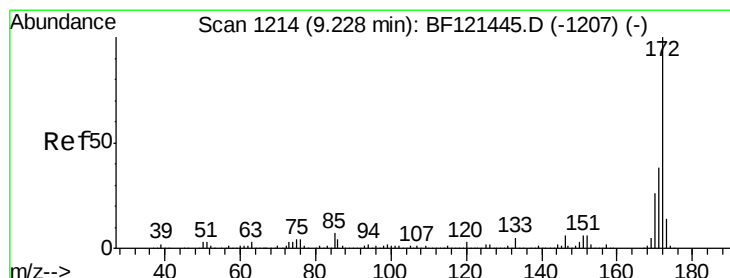
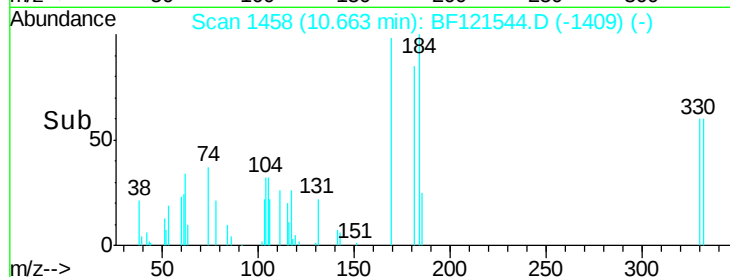
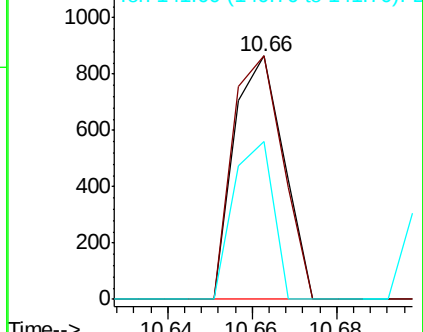
141 51.8 22.6 34.0#



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: 0.088 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.02 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

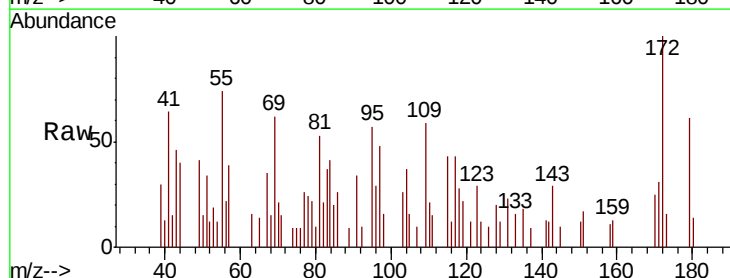
Tgt Ion:172 Resp: 3262

Ion Ratio Lower Upper

172 100

171 31.5 30.4 45.6

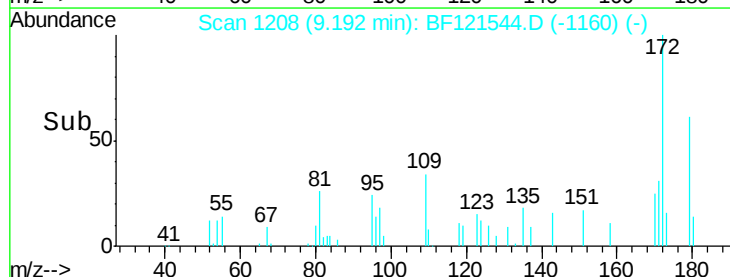
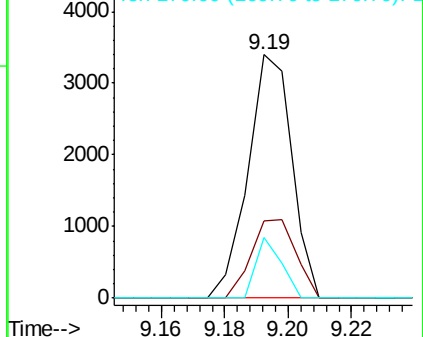
170 24.9 20.7 31.1

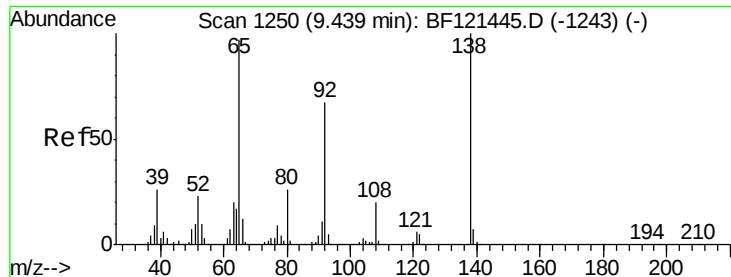


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

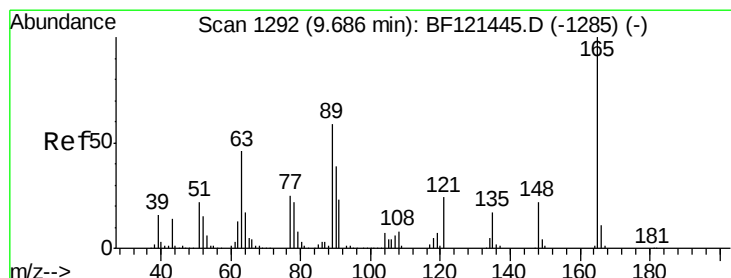
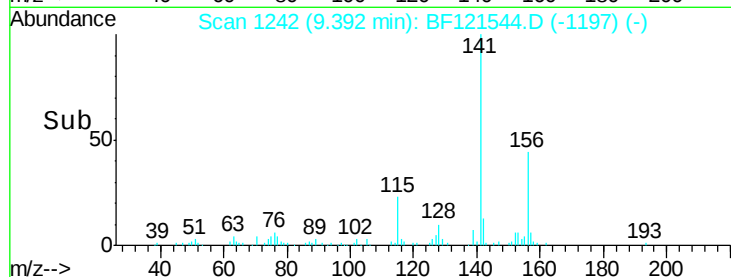
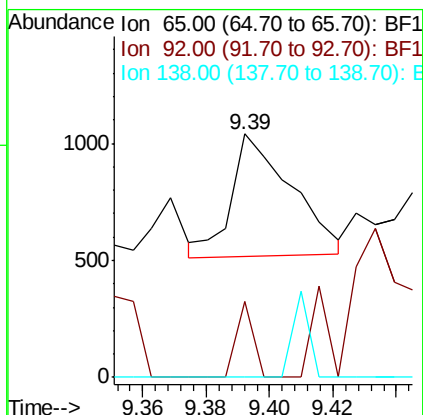
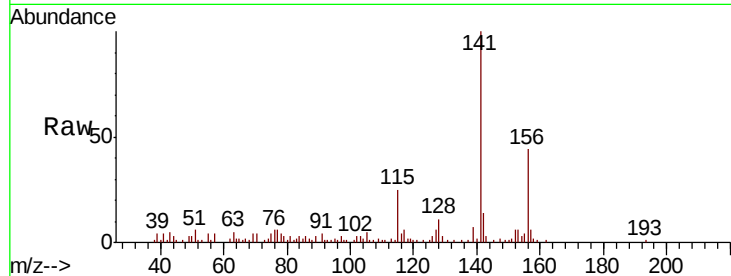




#48  
2-Nitroaniline  
Concen: 6.704 ng  
RT: 9.39 min Scan# 1242  
Delta R.T. -0.04 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

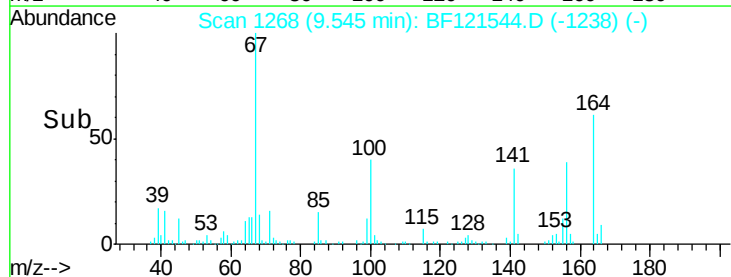
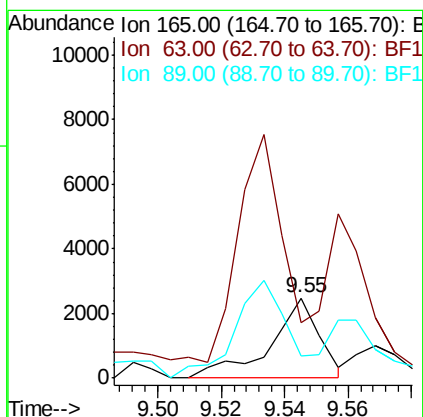
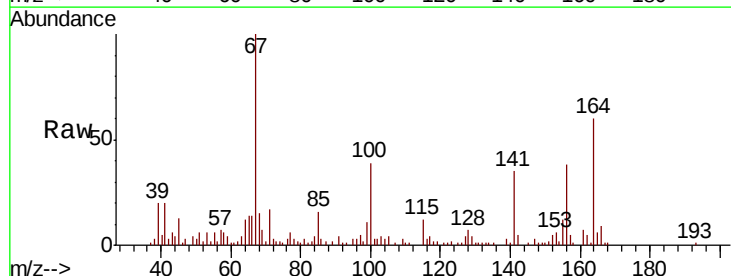
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1DL2

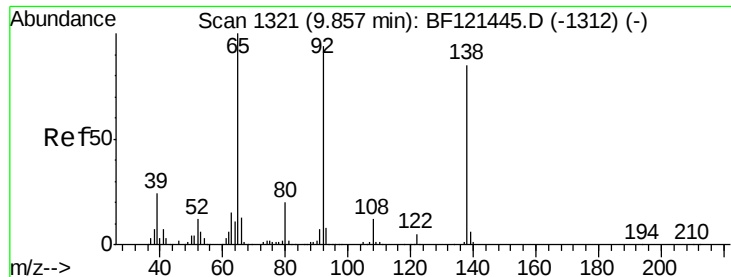
Tot Ion: 65 Resp: 685  
Ion Ratio Lower Upper  
65 100  
92 31.2 58.6 87.8#  
138 0.0 88.6 133.0#



#51  
2,6-Dinitrotoluene  
Concen: 6.721 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.12 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

Tgt Ion: 165 Resp: 2678  
Ion Ratio Lower Upper  
165 100  
63 68.6 47.4 71.0  
89 27.0 47.9 71.9#

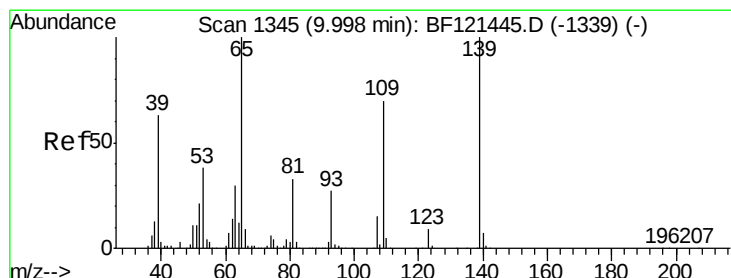
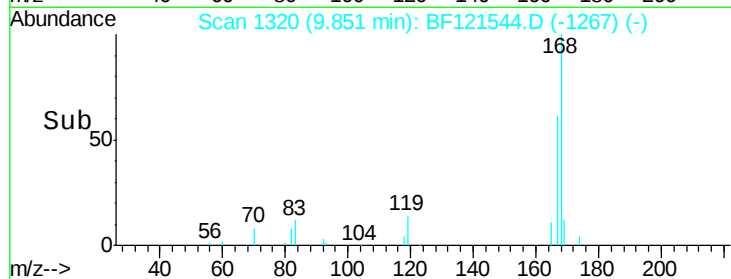
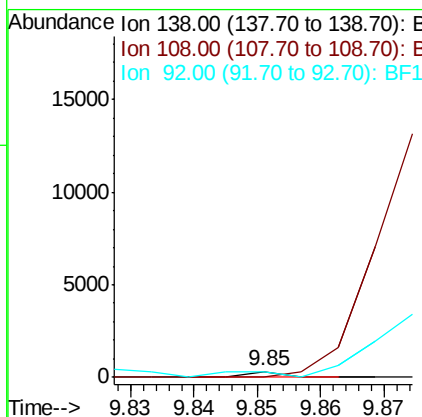
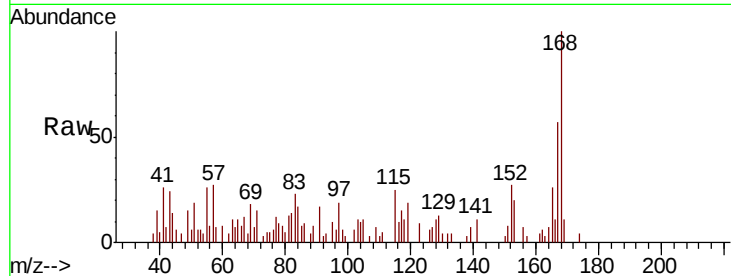




#53  
 3-Nitroaniline  
 Concen: 5.462 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. 0.01 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

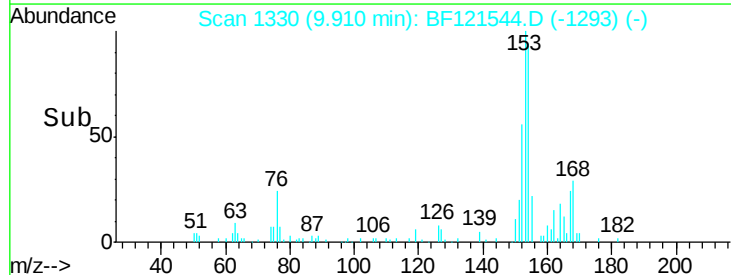
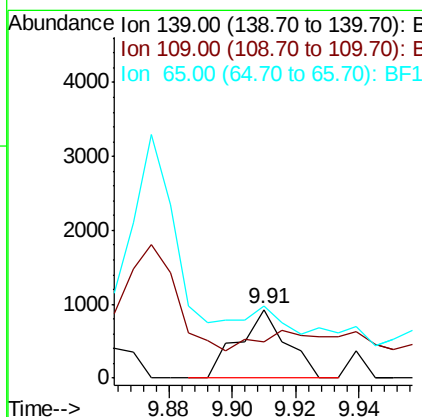
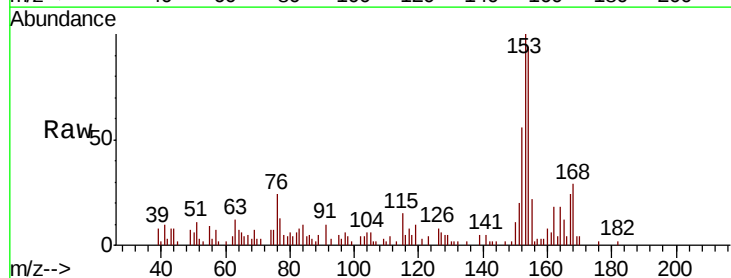
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1DL2

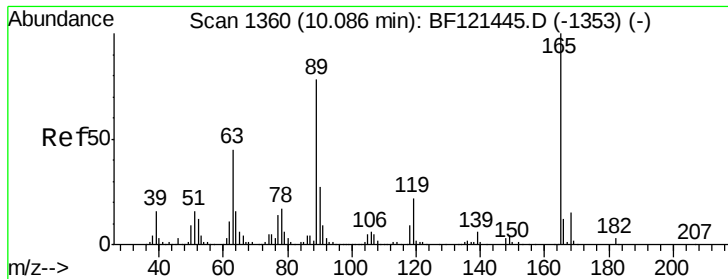
Tot Ion:138 Resp: 110  
 Ion Ratio Lower Upper  
 138 100  
 108 0.0 8.7 13.1#  
 92 98.1 91.1 136.7



#56  
 4-Nitrophenol  
 Concen: 7.967 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.08 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

Tgt Ion:139 Resp: 968  
 Ion Ratio Lower Upper  
 139 100  
 109 52.3 44.3 84.3  
 65 105.1 70.2 110.2

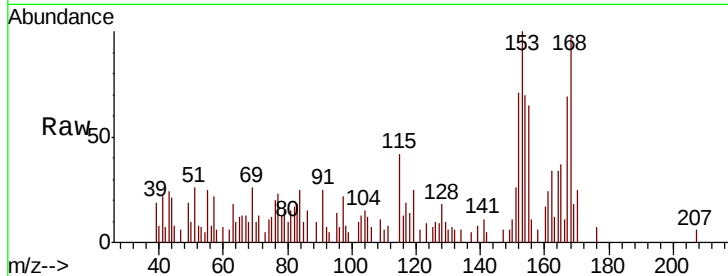




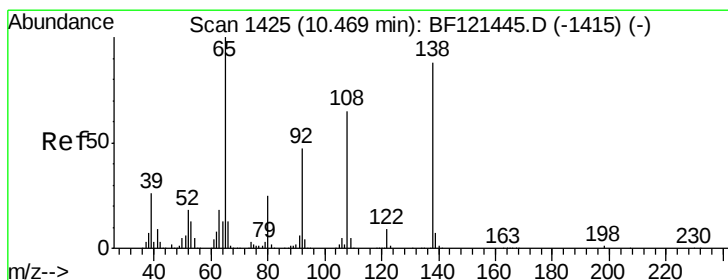
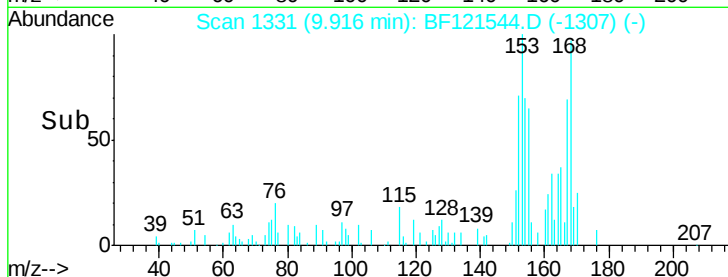
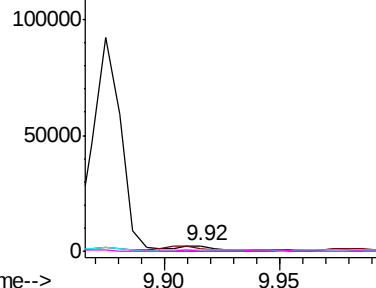
#57  
 2,4-Dinitrotoluene  
 Concen: 7.566 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.16 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1DL2

Tot Ion:165 Resp: 3229  
 Ion Ratio Lower Upper  
 165 100  
 63 47.1 33.6 50.4  
 89 25.9 56.4 84.6#  
 182 0.0 2.2 3.4#

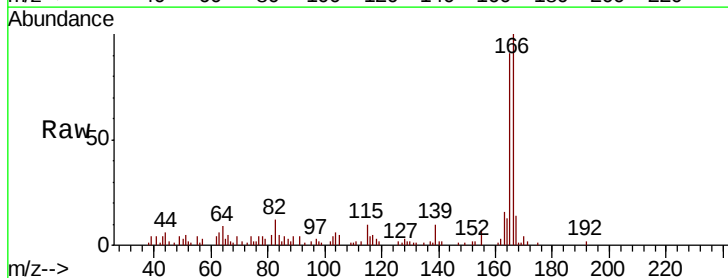


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

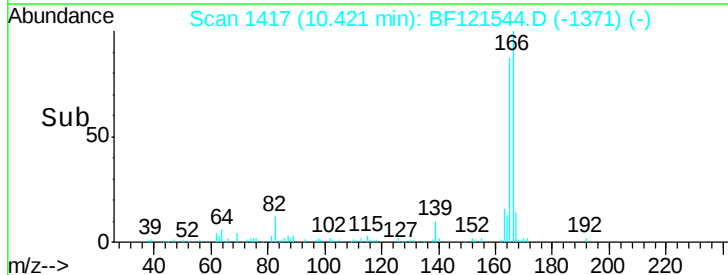
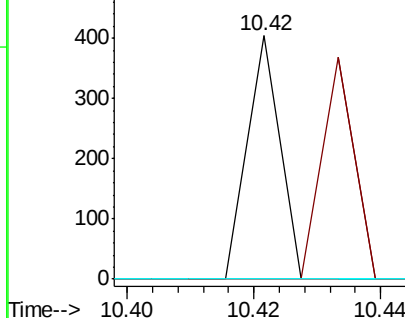


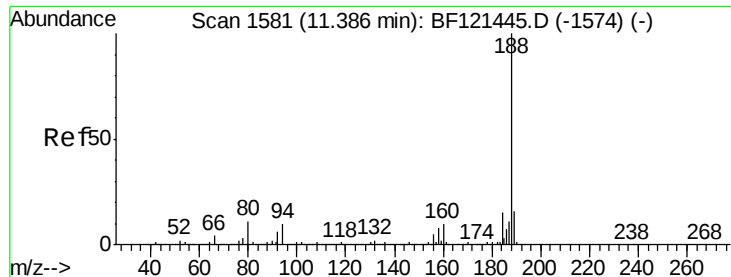
#62  
 4-Nitroaniline  
 Concen: 4.548 ng  
 RT: 10.42 min Scan# 1417  
 Delta R.T. -0.03 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

Tgt Ion:138 Resp: 143  
 Ion Ratio Lower Upper  
 138 100  
 92 0.0 32.2 72.2#  
 108 0.0 49.1 89.1#



Abundance Ion 138.00 (137.70 to 138.70): E  
 Ion 92.00 (91.70 to 92.70): BF1  
 Ion 108.00 (107.70 to 108.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

Instrument :

BNA\_F

ClientSampleId :

TP-1DL2

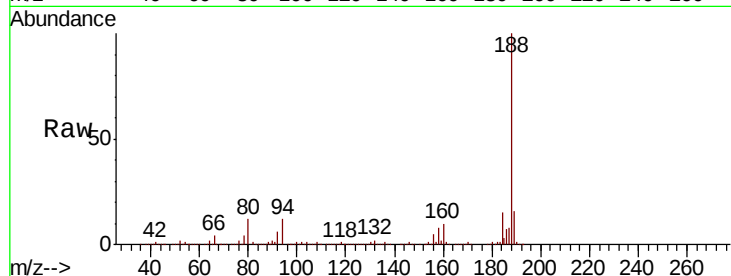
Tot Ion:188 Resp: 1147447

Ion Ratio Lower Upper

188 100

94 11.5 8.8 13.2

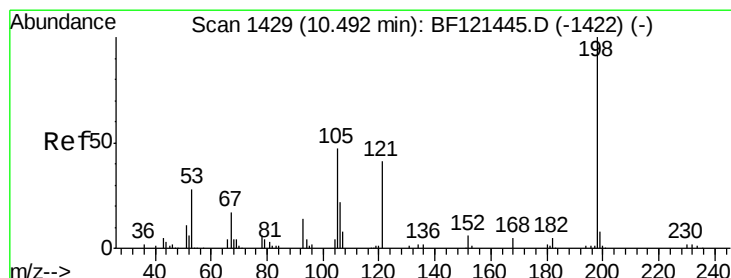
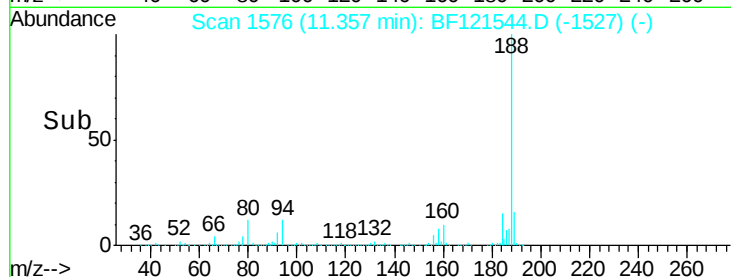
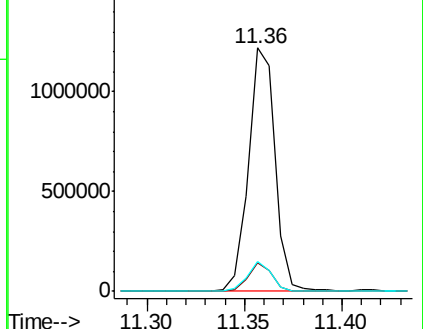
80 12.0 9.1 13.7



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



#65

4,6-Dinitro-2-methylphenol

Concen: 5.813 ng

RT: 10.73 min Scan# 1469

Delta R.T. 0.25 min

Lab File: BF121544.D

Acq: 9 Sep 2020 13:01

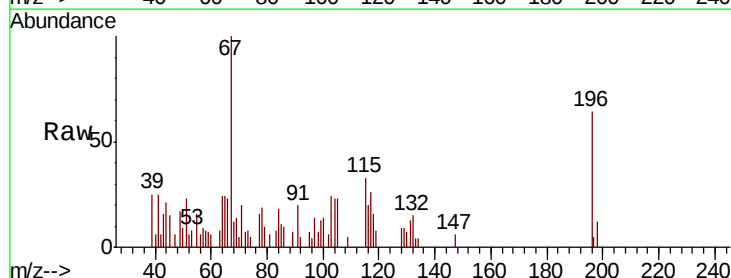
Tgt Ion:198 Resp: 809

Ion Ratio Lower Upper

198 100

51 188.9 24.9 64.9#

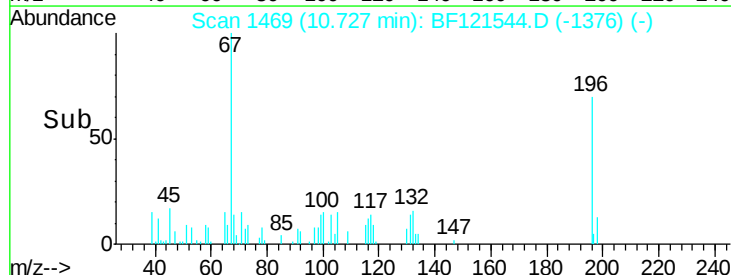
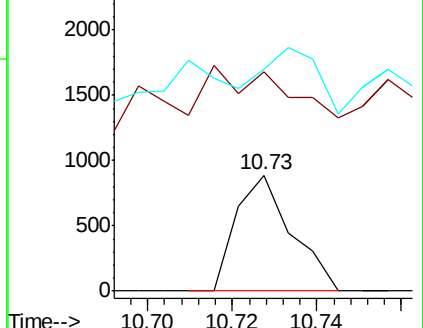
105 191.0 25.8 65.8#

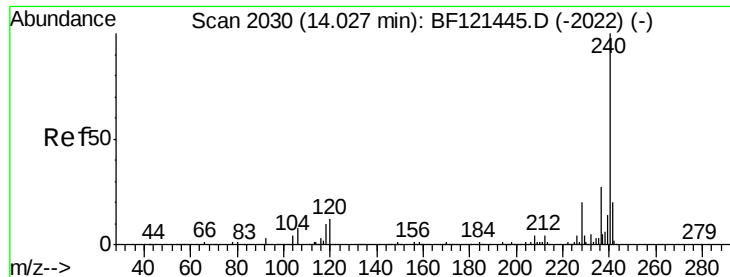


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

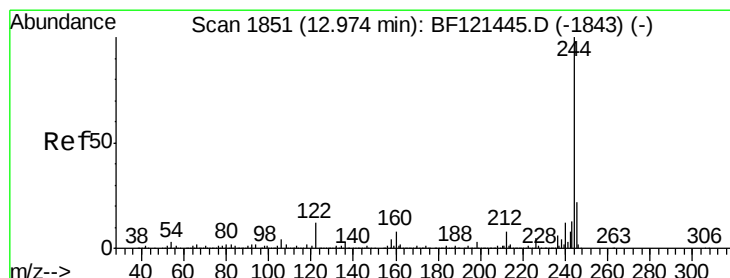
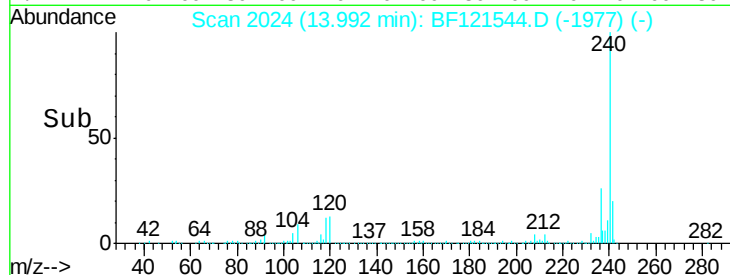
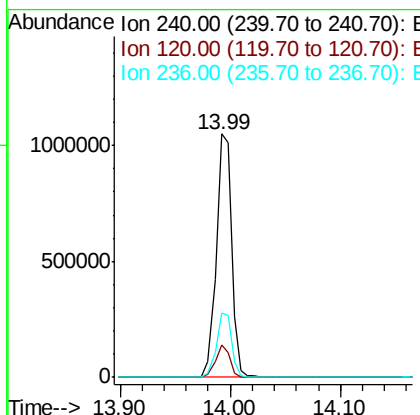
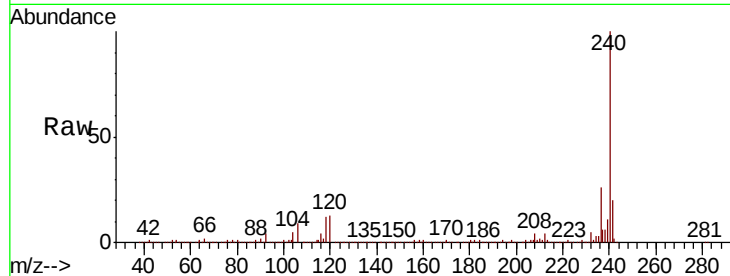




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.02 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

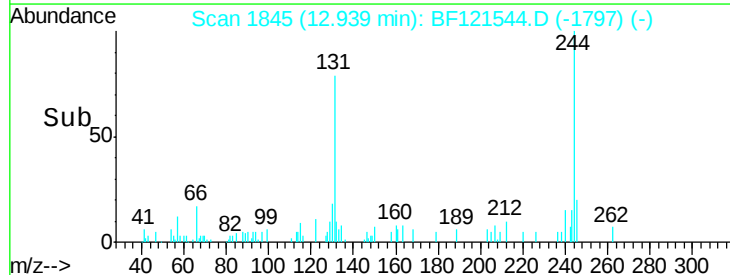
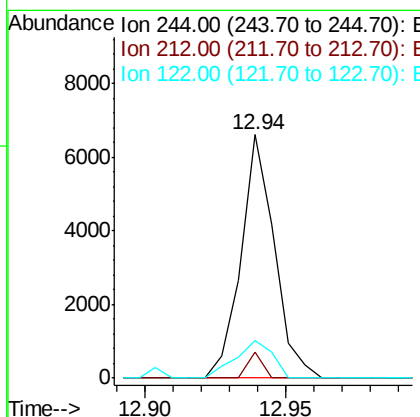
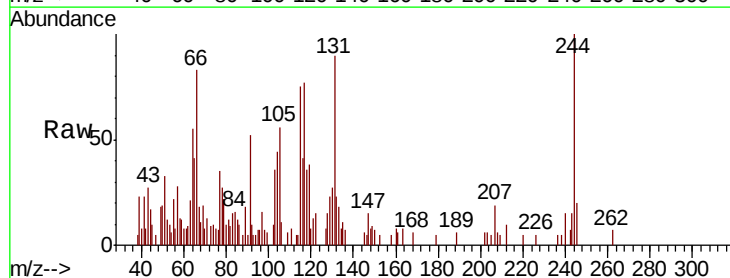
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1DL2

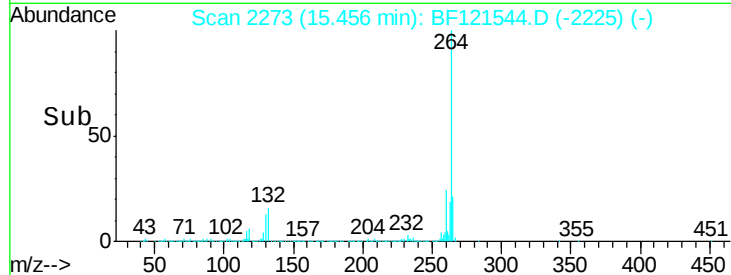
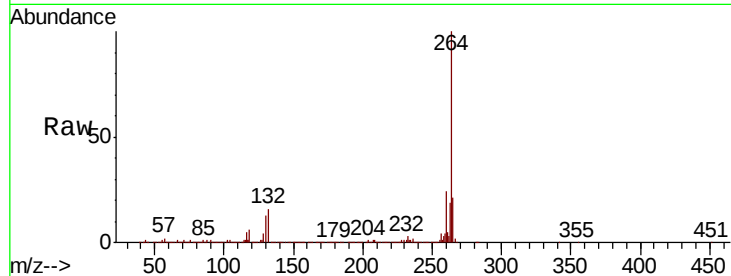
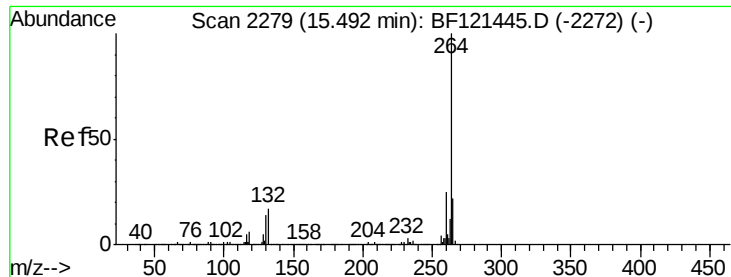
Tot Ion:240 Resp: 1015434  
 Ion Ratio Lower Upper  
 240 100  
 120 13.4 8.0 12.0#  
 236 26.2 21.4 32.2



#79  
 Terphenyl-d14  
 Concen: 0.112 ng  
 RT: 12.94 min Scan# 1845  
 Delta R.T. -0.02 min  
 Lab File: BF121544.D  
 Acq: 9 Sep 2020 13:01

Tgt Ion:244 Resp: 5419  
 Ion Ratio Lower Upper  
 244 100  
 212 10.5 6.0 9.0#  
 122 15.2 9.3 13.9#





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. -0.02 min  
Lab File: BF121544.D  
Acq: 9 Sep 2020 13:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1DL2

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 978598 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.4  | 19.7  | 29.5   |
| 265      | 21.2  | 17.4  | 26.2   |

