

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\  
 Data File : BF115949.D  
 Acq On : 2 Aug 2019 16:29  
 Operator : HP/JU  
 Sample : PB121932BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

Quant Time: Aug 02 23:41:15 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 142999   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 593195   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 316799   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 540709   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.03 | 240  | 388743   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.49 | 264  | 332465   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 997613  | 116.79 | ng | 0.02 |
| 7) Phenol-d6             | 6.49  | 99  | 1258146 | 116.74 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.42  | 82  | 833453  | 81.10  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.69 | 330 | 350128  | 113.99 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.22  | 172 | 1419347 | 83.92  | ng | 0.00 |
| 79) Terphenyl-d14        | 12.97 | 244 | 1530596 | 82.97  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.72 | 88  | 175875  | 40.756 | ng | 100    |
| 3) Pyridine                    | 3.46 | 79  | 450875  | 37.403 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 3.41 | 42  | 204672  | 43.024 | ng | 98     |
| 6) Aniline                     | 6.52 | 93  | 505313  | 32.739 | ng | 95     |
| 8) 2-Chlorophenol              | 6.65 | 128 | 432710  | 45.810 | ng | 98     |
| 9) Benzaldehyde                | 6.40 | 77  | 240602  | 32.356 | ng | 99     |
| 10) Phenol                     | 6.50 | 94  | 551198  | 43.431 | ng | 90     |
| 11) bis(2-Chloroethyl)ether    | 6.59 | 93  | 417925  | 44.790 | ng | 100    |
| 12) 1,3-Dichlorobenzene        | 6.79 | 146 | 468399  | 42.908 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 6.87 | 146 | 472301  | 43.210 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.02 | 146 | 435094  | 43.231 | ng | 98     |
| 15) Benzyl Alcohol             | 7.00 | 79  | 372326  | 45.523 | ng | 99     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45  | 553342  | 43.477 | ng | 95     |
| 17) 2-Methylphenol             | 7.11 | 107 | 368629  | 46.089 | ng | 99     |
| 18) Hexachloroethane           | 7.36 | 117 | 175305  | 43.562 | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70  | 296657  | 44.420 | ng | 100    |
| 20) 3+4-Methylphenols          | 7.26 | 107 | 434717  | 45.930 | ng | 89     |
| 22) Acetophenone               | 7.26 | 105 | 588145  | 45.209 | ng | 97     |
| 24) Nitrobenzene               | 7.43 | 77  | 489598  | 44.123 | ng | 99     |
| 25) Isophorone                 | 7.67 | 82  | 870249  | 44.287 | ng | 100    |
| 26) 2-Nitrophenol              | 7.75 | 139 | 240098  | 45.903 | ng | 100    |
| 27) 2,4-Dimethylphenol         | 7.79 | 122 | 388761  | 49.402 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.88 | 93  | 527274  | 43.292 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.00 | 162 | 379265  | 45.645 | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 8.07 | 180 | 405037  | 42.764 | ng | 99     |
| 31) Naphthalene                | 8.16 | 128 | 1245775 | 44.628 | ng | 99     |
| 32) Benzoic acid               | 7.94 | 122 | 258946  | 46.673 | ng | 100    |
| 33) 4-Chloroaniline            | 8.20 | 127 | 315018  | 25.257 | ng | 100    |
| 34) Hexachlorobutadiene        | 8.27 | 225 | 229149  | 42.003 | ng | 100    |
| 35) Caprolactam                | 8.59 | 113 | 65581   | 24.404 | ng | 98     |
| 36) 4-Chloro-3-methylphenol    | 8.70 | 107 | 394720  | 45.664 | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.85 | 142 | 843824  | 45.900 | ng | 99     |
| 38) 1-Methylnaphthalene        | 8.95 | 142 | 780980  | 44.904 | ng | 99     |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.02 | 216 | 380552  | 44.933 | ng | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 9.01  | 237  | 247392   | 66.172 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol      | 9.13  | 196  | 250638   | 42.994 | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 9.18  | 196  | 268606   | 44.574 | ng    | 99       |
| 46) 1,1'-Biphenyl              | 9.32  | 154  | 1003874  | 44.884 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 9.35  | 162  | 796902   | 42.810 | ng    | 99       |
| 48) 2-Nitroaniline             | 9.44  | 65   | 254465   | 41.356 | ng    | 91       |
| 49) Acenaphthylene             | 9.76  | 152  | 1216266  | 44.785 | ng    | 99       |
| 50) Dimethylphthalate          | 9.62  | 163  | 929733   | 43.102 | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.68  | 165  | 207721   | 44.313 | ng    | 87       |
| 52) Acenaphthene               | 9.93  | 154  | 720363   | 43.237 | ng    | 100      |
| 53) 3-Nitroaniline             | 9.85  | 138  | 171457   | 29.602 | ng    | 90       |
| 54) 2,4-Dinitrophenol          | 9.97  | 184  | 183591   | 77.296 | ng    | 92       |
| 55) Dibenzofuran               | 10.10 | 168  | 1074942  | 44.366 | ng    | 97       |
| 56) 4-Nitrophenol              | 10.03 | 139  | 328396   | 88.505 | ng    | 99       |
| 57) 2,4-Dinitrotoluene         | 10.09 | 165  | 271569   | 43.512 | ng    | 99       |
| 58) Fluorene                   | 10.45 | 166  | 829328   | 44.489 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.23 | 232  | 223845   | 44.153 | ng    | 98       |
| 60) Diethylphthalate           | 10.32 | 149  | 874312   | 43.414 | ng    | 100      |
| 61) 4-Chlorophenyl-phenylether | 10.43 | 204  | 411012   | 43.535 | ng    | 99       |
| 62) 4-Nitroaniline             | 10.47 | 138  | 232662   | 38.869 | ng    | 97       |
| 63) Azobenzene                 | 10.60 | 77   | 918896   | 44.361 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 131951   | 46.050 | ng    | 96       |
| 66) n-Nitrosodiphenylamine     | 10.56 | 169  | 736758   | 45.270 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 10.93 | 248  | 255631   | 44.164 | ng    | 92       |
| 68) Hexachlorobenzene          | 11.00 | 284  | 286285   | 42.772 | ng    | 98       |
| 69) Atrazine                   | 11.08 | 200  | 234159   | 43.735 | ng    | 97       |
| 70) Pentachlorophenol          | 11.20 | 266  | 280610   | 86.354 | ng    | 98       |
| 71) Phenanthrene               | 11.41 | 178  | 1213304  | 43.893 | ng    | 99       |
| 72) Anthracene                 | 11.46 | 178  | 1248990  | 44.646 | ng    | 99       |
| 73) Carbazole                  | 11.62 | 167  | 1127833  | 44.437 | ng    | 99       |
| 74) Di-n-butylphthalate        | 11.94 | 149  | 1339844  | 45.254 | ng    | 100      |
| 75) Fluoranthene               | 12.60 | 202  | 1261026  | 43.576 | ng    | 99       |
| 77) Benzidine                  | 12.72 | 184  | 486925   | 37.075 | ng    | 97       |
| 78) Pyrene                     | 12.83 | 202  | 1282544  | 43.767 | ng    | 100      |
| 80) Butylbenzylphthalate       | 13.44 | 149  | 561968   | 45.336 | ng    | 97       |
| 81) Benzo(a)anthracene         | 14.02 | 228  | 1086103  | 43.712 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine     | 13.97 | 252  | 335695   | 38.888 | ng    | 98       |
| 83) Chrysene                   | 14.06 | 228  | 1063474  | 44.086 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 14.00 | 149  | 761326   | 47.263 | ng    | 99       |
| 85) Di-n-octyl phthalate       | 14.61 | 149  | 1233912  | 48.227 | ng    | # 99     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.99 | 276  | 841171   | 41.518 | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 15.07 | 252  | 965991   | 50.250 | ng    | 97       |
| 89) Benzo(k)fluoranthene       | 15.10 | 252  | 940821   | 50.247 | ng    | 100      |
| 90) Benzo(a)pyrene             | 15.44 | 252  | 886293   | 51.576 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene     | 16.99 | 278  | 714808   | 48.055 | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 17.42 | 276  | 684548   | 46.859 | ng    | 99       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 810

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

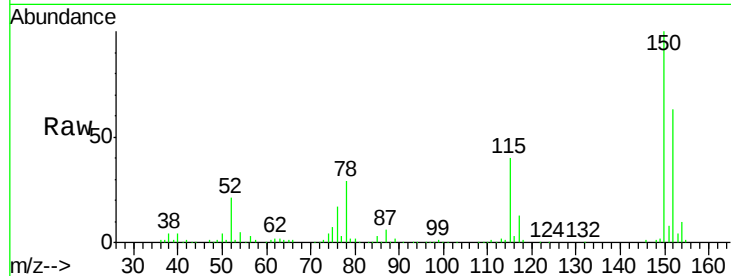
Tot Ion:152 Resp: 142999

Ion Ratio Lower Upper

152 100

150 158.1 127.4 191.0

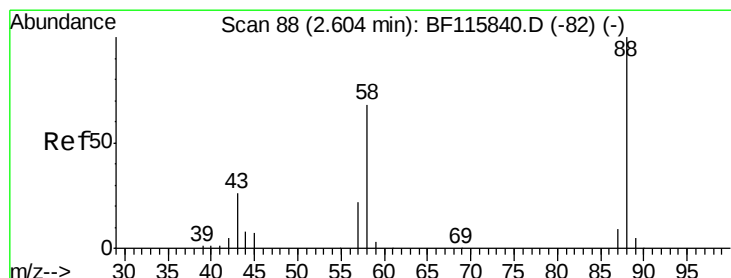
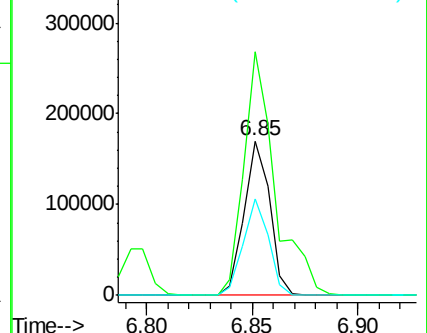
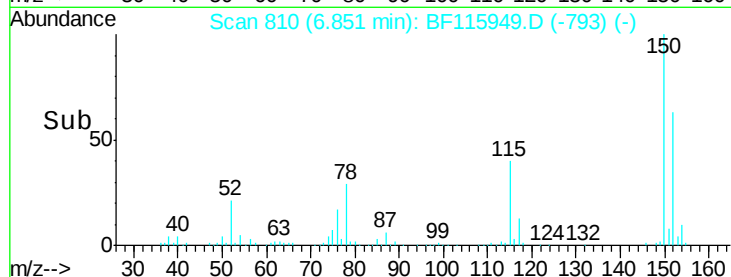
115 62.8 51.8 77.8



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: 40.756 ng

RT: 2.72 min Scan# 108

Delta R.T. 0.12 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

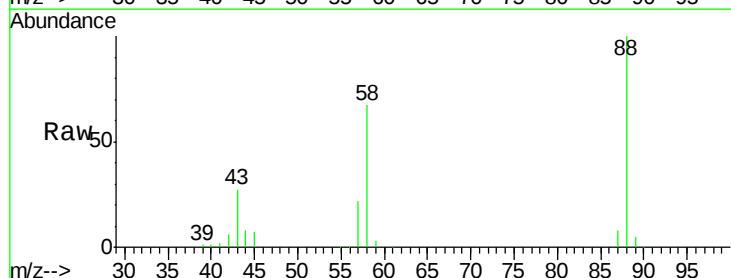
Tgt Ion: 88 Resp: 175875

Ion Ratio Lower Upper

88 100

58 67.9 54.1 81.1

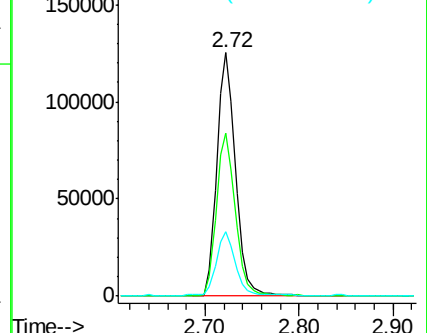
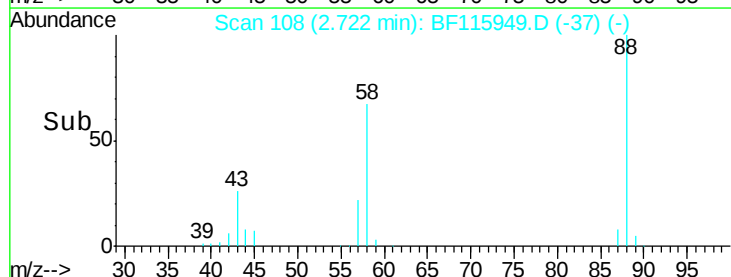
43 26.3 20.7 31.1

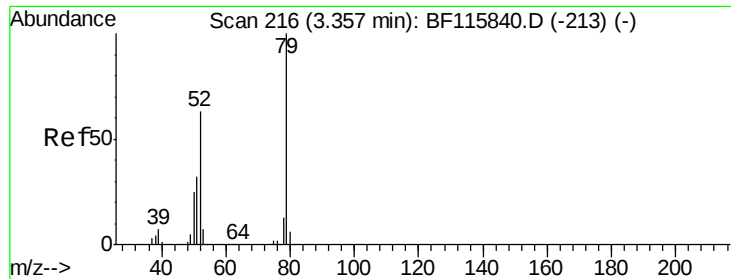


Abundance Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1





#3

Pvridine

Concen: 37.403 ng

RT: 3.46 min Scan# 234

Delta R.T. 0.11 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

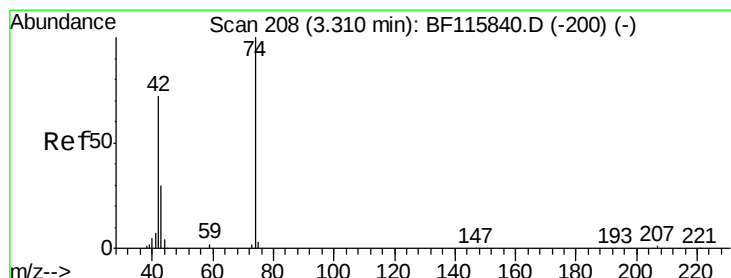
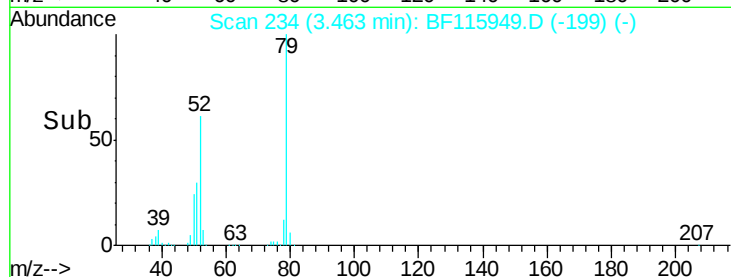
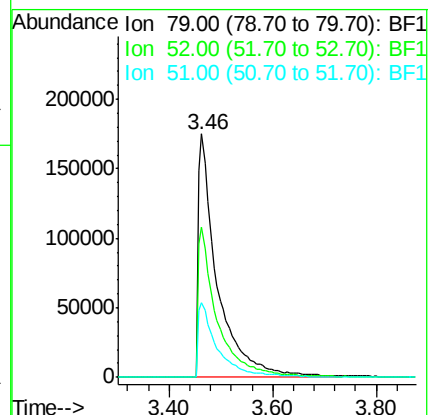
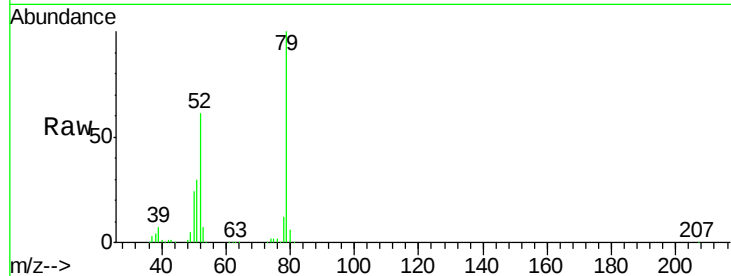
Tot Ion: 79 Resp: 450875

Ion Ratio Lower Upper

79 100

52 61.5 50.2 75.4

51 30.5 25.8 38.6



#4

n-Nitrosodimethylamine

Concen: 43.024 ng

RT: 3.41 min Scan# 225

Delta R.T. 0.10 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

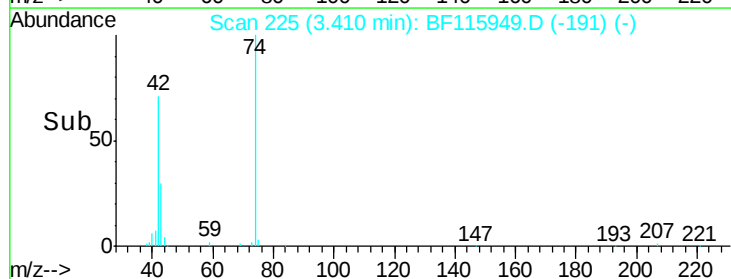
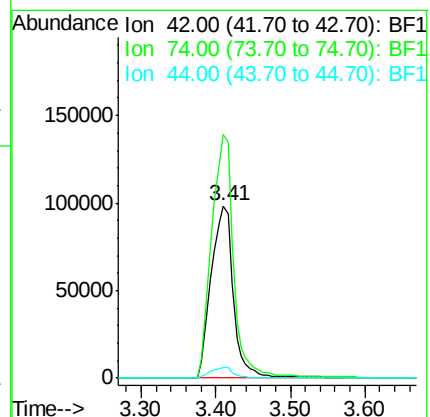
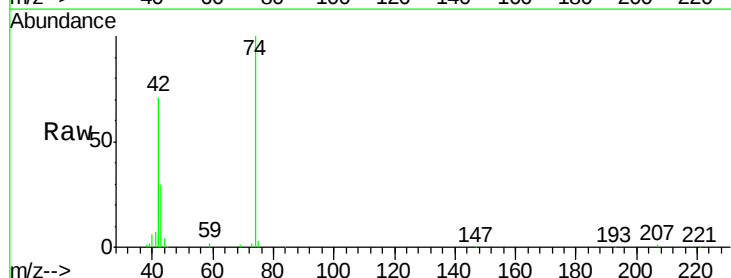
Tgt Ion: 42 Resp: 204672

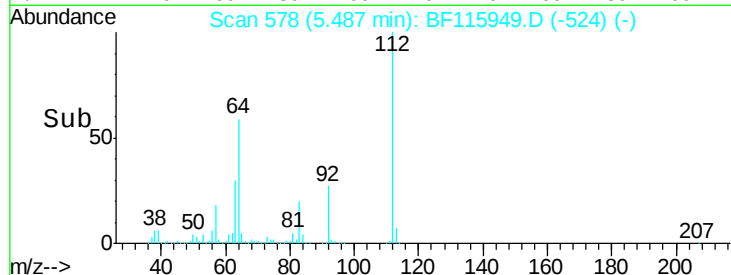
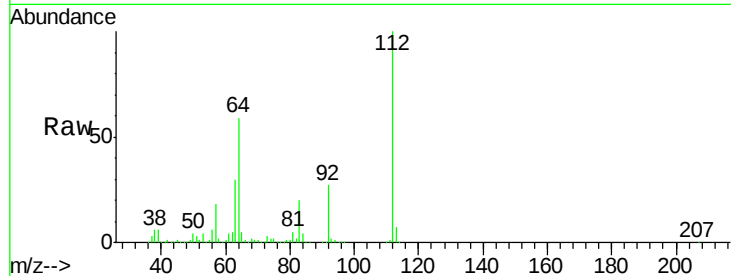
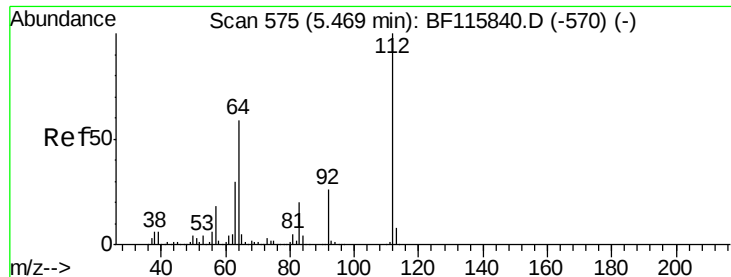
Ion Ratio Lower Upper

42 100

74 141.4 111.0 166.4

44 6.2 4.7 7.1

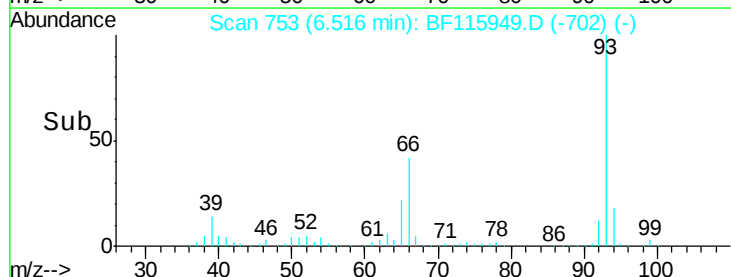
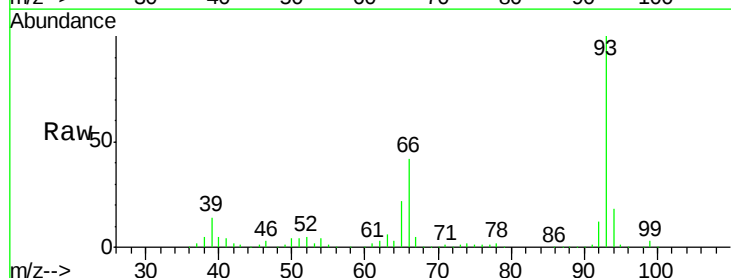
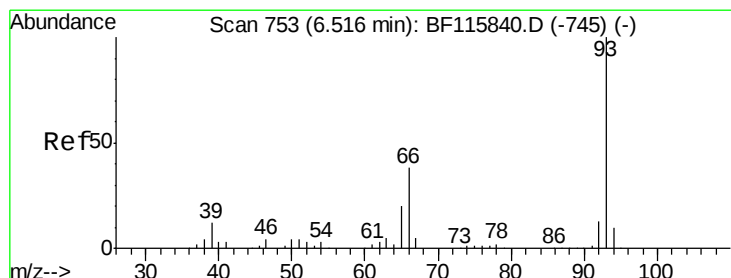
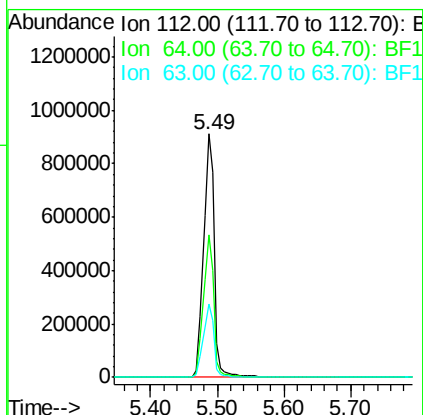




#5  
2-Fluorophenol  
Concen: 116.789 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.02 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

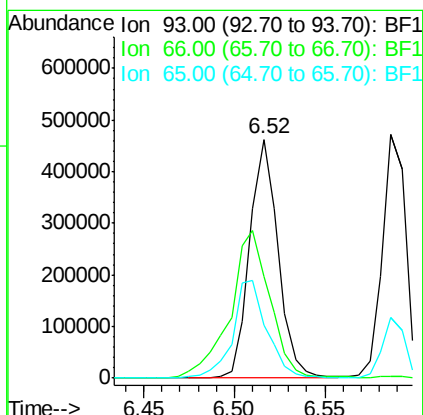
Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

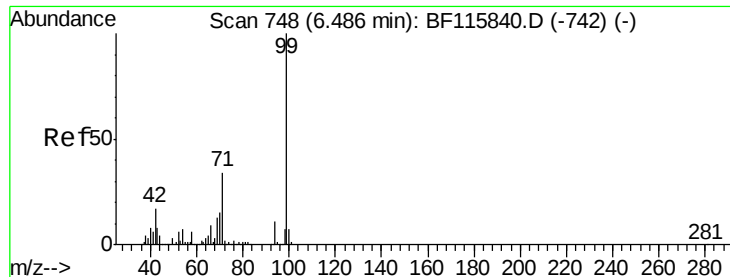
Tot Ion:112 Resp: 997613  
Ion Ratio Lower Upper  
112 100  
64 58.8 46.8 70.2  
63 30.2 24.2 36.2



#6  
Aniline  
Concen: 32.739 ng  
RT: 6.52 min Scan# 753  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion: 93 Resp: 505313  
Ion Ratio Lower Upper  
93 100  
66 42.5 31.4 47.0  
65 22.2 16.5 24.7





#7

Phenol-d6

Concen: 116.740 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

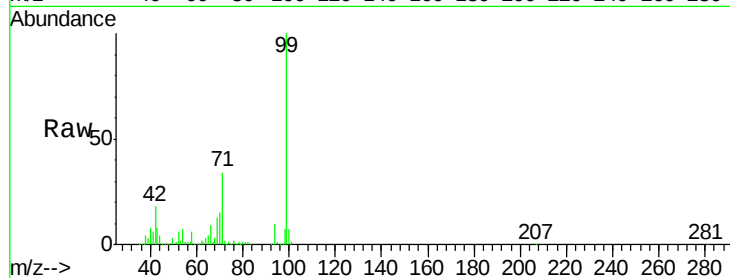
Tot Ion: 99 Resp: 1258146

Ion Ratio Lower Upper

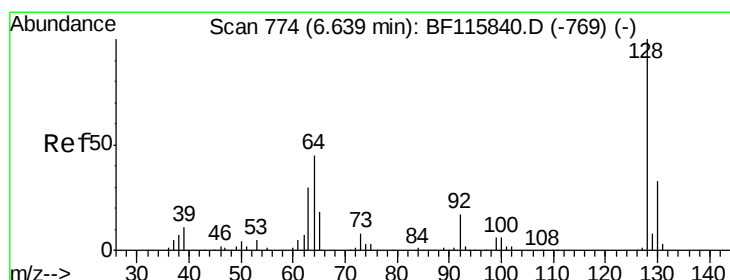
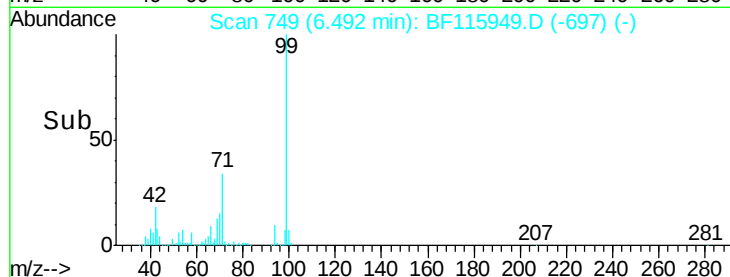
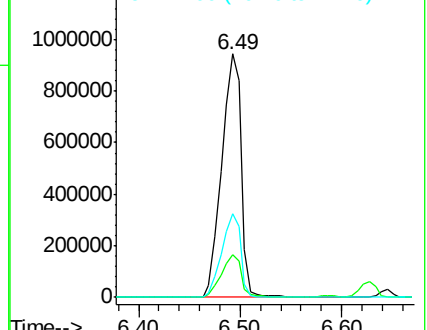
99 100

42 17.5 13.8 20.6

71 34.5 27.1 40.7



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



#8

2-Chlorophenol

Concen: 45.810 ng

RT: 6.65 min Scan# 775

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

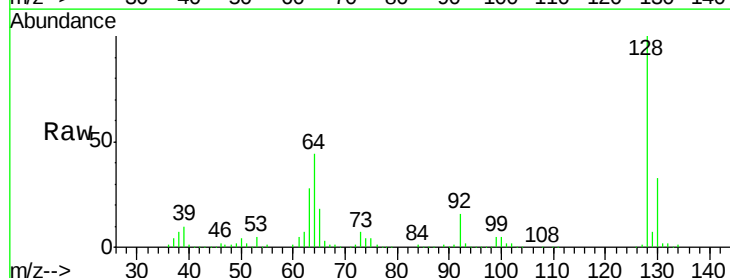
Tgt Ion: 128 Resp: 432710

Ion Ratio Lower Upper

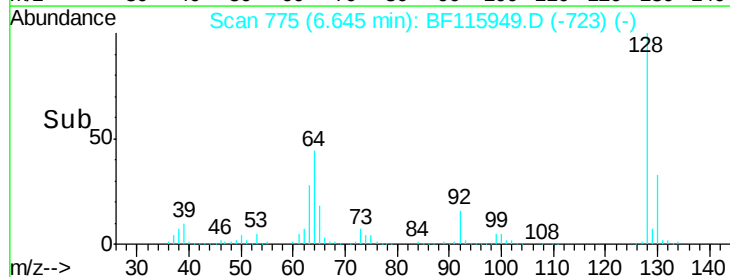
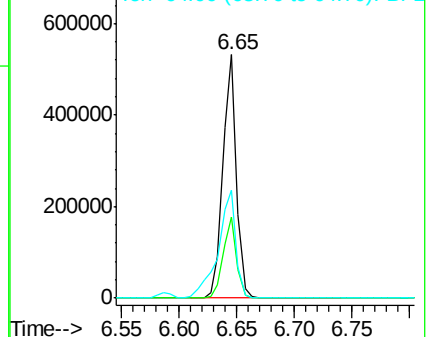
128 100

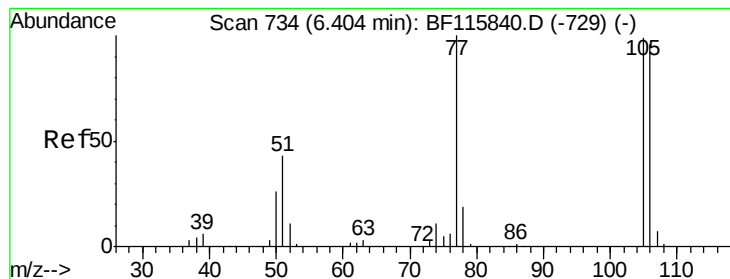
130 33.2 12.9 52.9

64 44.1 26.1 66.1



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 32.356 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.00 min

Lab File: BF115949.D

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Instrument :

BNA\_F

ClientSampleId :

PB121932BS

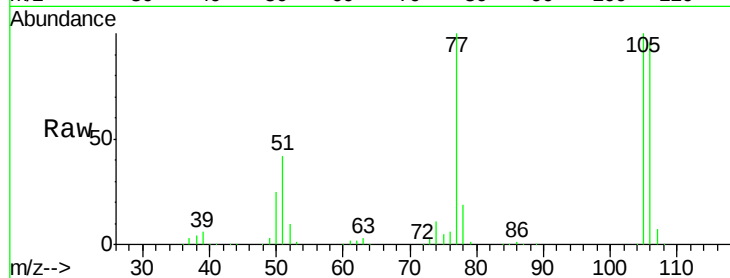
Tot Ion: 77 Resp: 240602

Ion Ratio Lower Upper

77 100

105 100.1 79.0 119.0

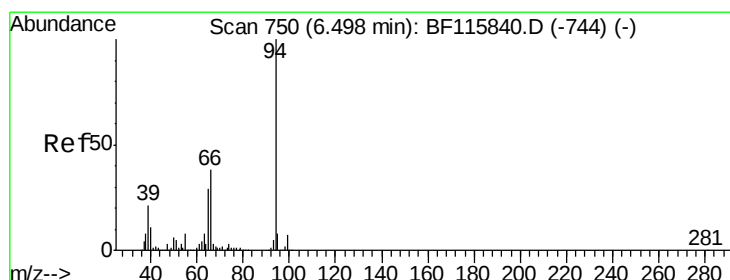
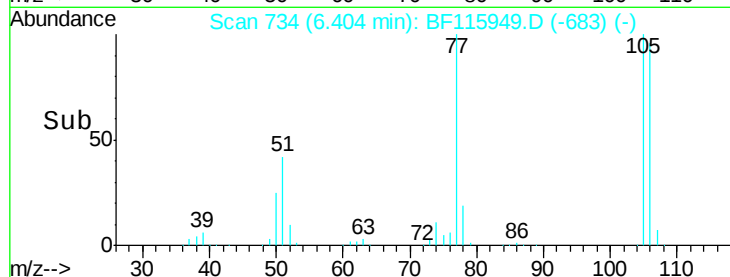
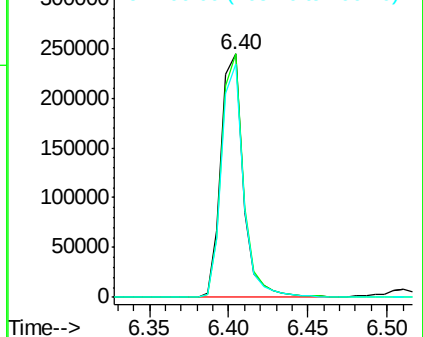
106 95.9 76.2 116.2



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 43.431 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

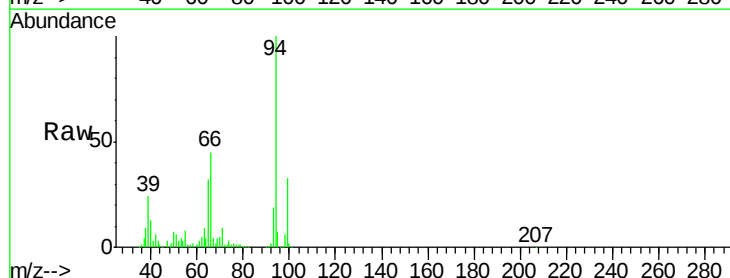
Tgt Ion: 94 Resp: 551198

Ion Ratio Lower Upper

94 100

65 32.5 8.9 48.9

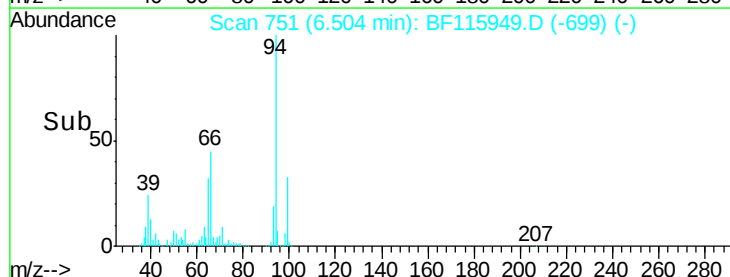
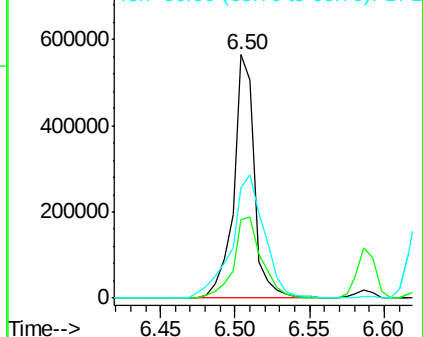
66 45.5 18.0 58.0



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





#11

bis(2-Chloroethyl)ether

Concen: 44.790 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

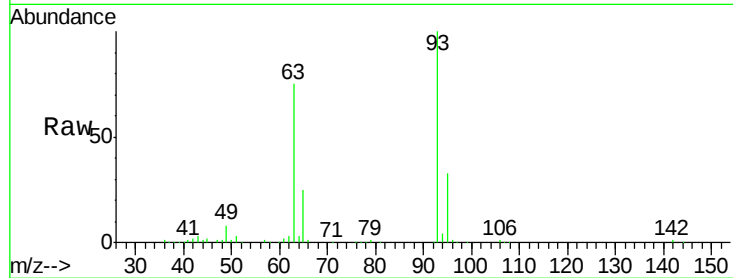
Tot Ion: 93 Resp: 417925

Ion Ratio Lower Upper

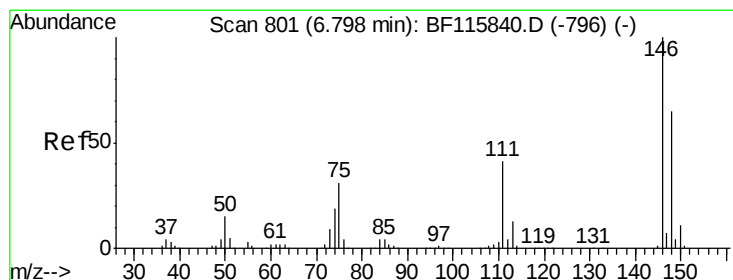
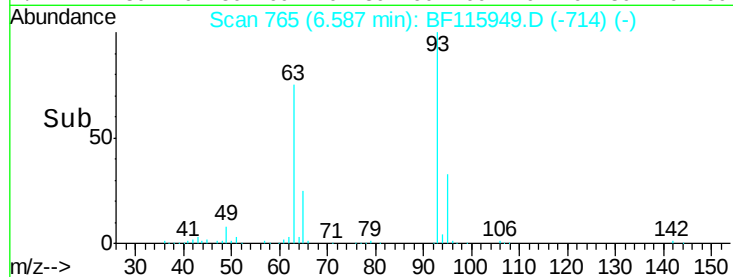
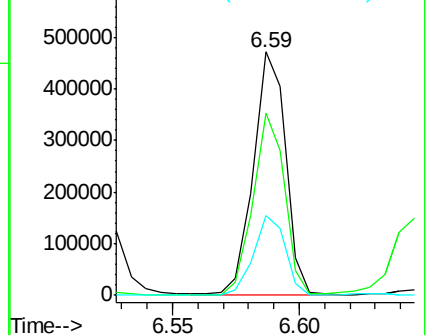
93 100

63 74.9 54.9 94.9

95 32.7 13.3 53.3



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1



#12

1,3-Dichlorobenzene

Concen: 42.908 ng

RT: 6.79 min Scan# 800

Delta R.T. -0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

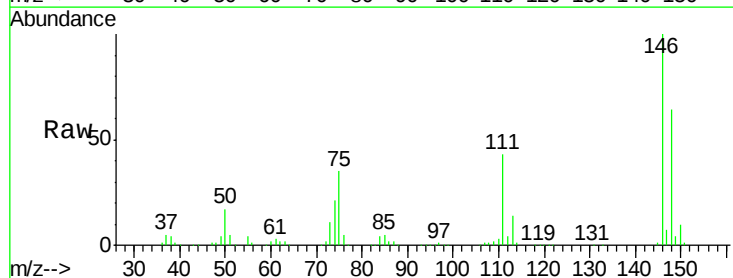
Tgt Ion: 146 Resp: 468399

Ion Ratio Lower Upper

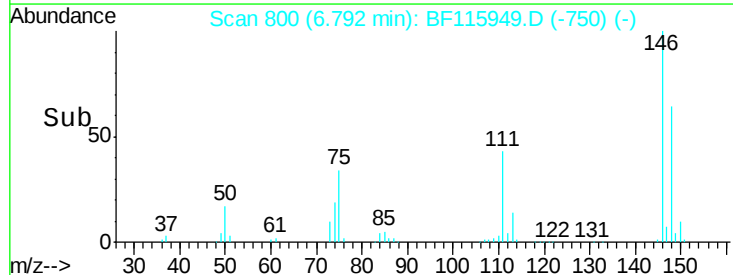
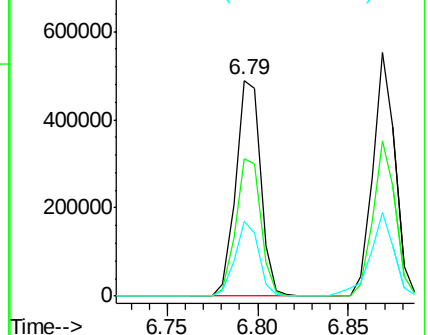
146 100

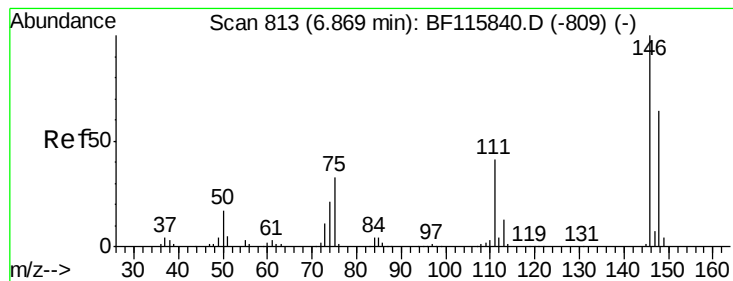
148 63.7 52.1 78.1

75 34.5 25.0 37.6



Abundance Ion 146.00 (145.70 to 146.70): E  
Ion 148.00 (147.70 to 148.70): E  
Ion 75.00 (74.70 to 75.70): BF1





#13

1,4-Dichlorobenzene

Concen: 43.210 ng

RT: 6.87 min Scan# 813

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

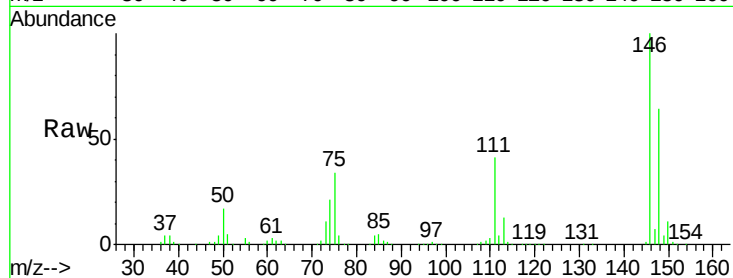
Tot Ion:146 Resp: 472301

Ion Ratio Lower Upper

146 100

148 63.7 51.2 76.8

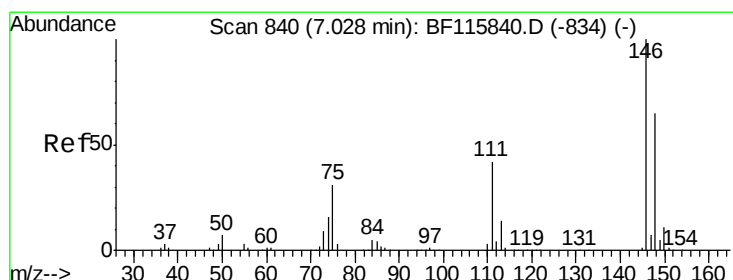
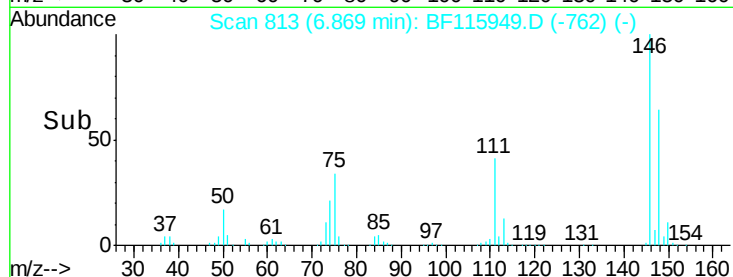
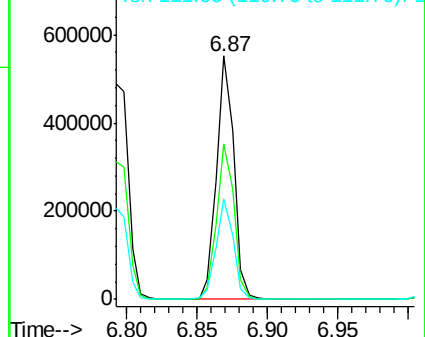
111 41.1 33.2 49.8



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 43.231 ng

RT: 7.02 min Scan# 839

Delta R.T. -0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

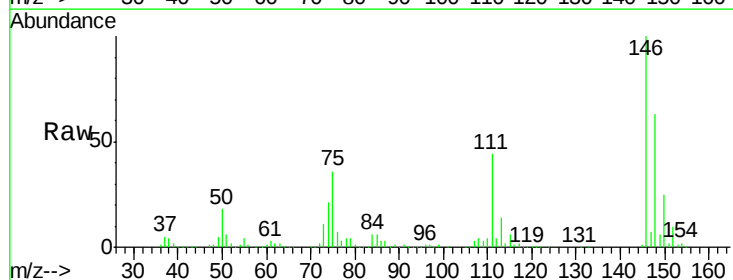
Tgt Ion:146 Resp: 435094

Ion Ratio Lower Upper

146 100

148 63.1 51.6 77.4

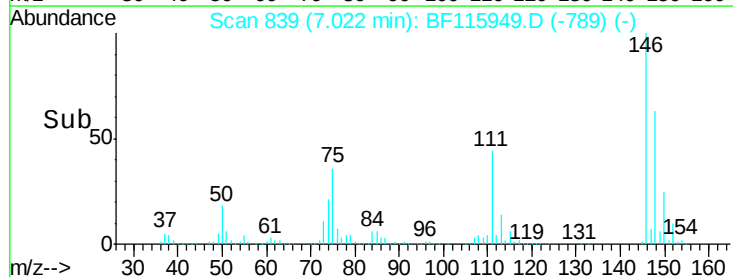
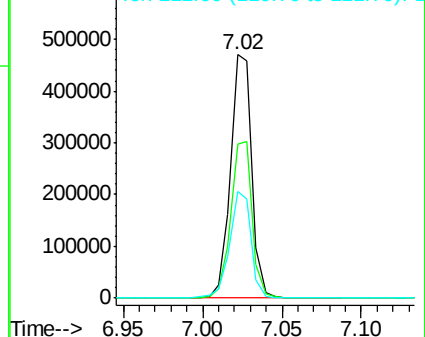
111 43.5 33.6 50.4

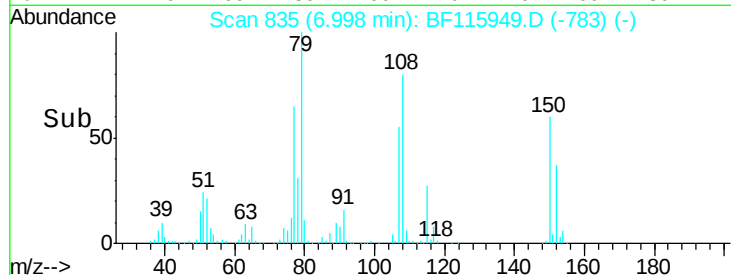
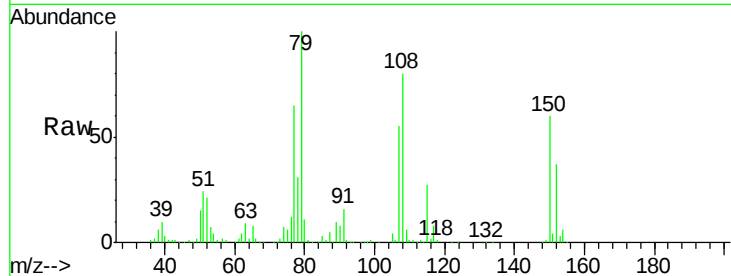


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 45.523 ng

RT: 7.00 min Scan# 835

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

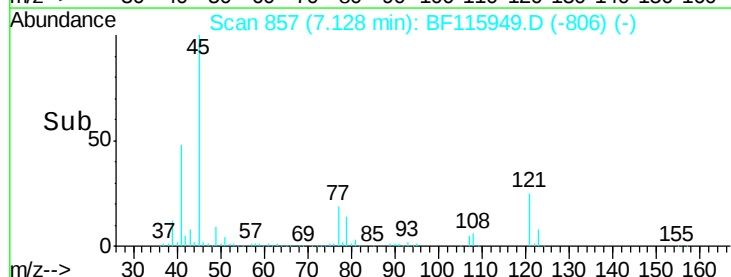
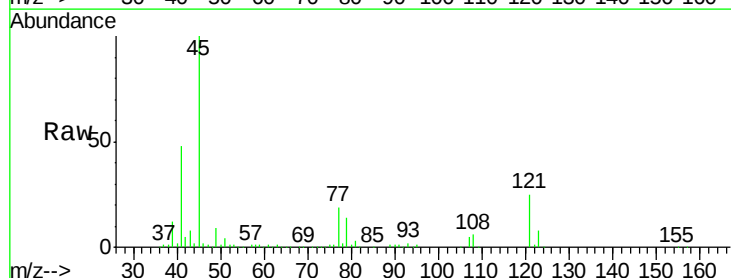
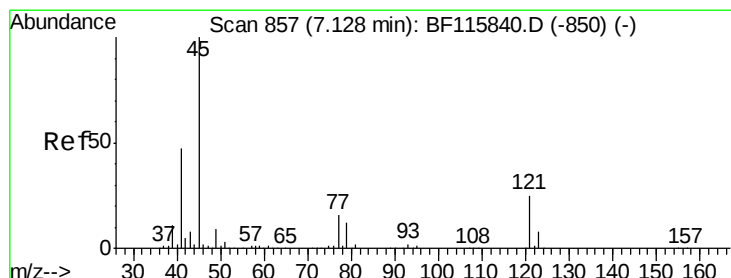
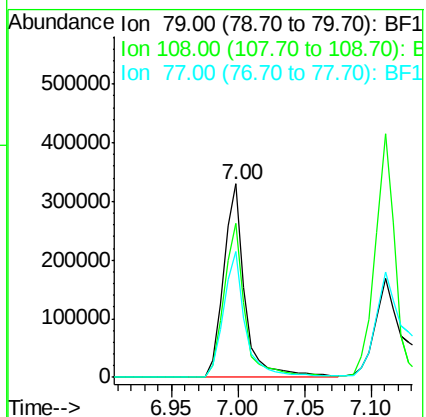
Tot Ion: 79 Resp: 372326

Ion Ratio Lower Upper

79 100

108 79.7 62.8 94.2

77 65.4 52.0 78.0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 43.477 ng

RT: 7.13 min Scan# 857

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

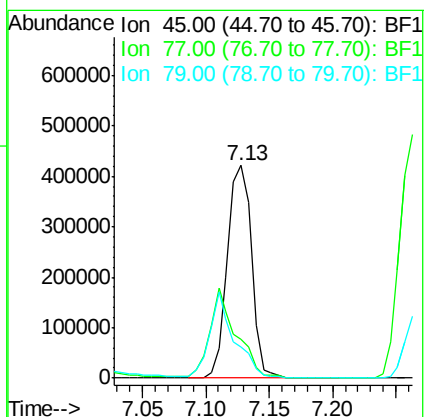
Tgt Ion: 45 Resp: 553342

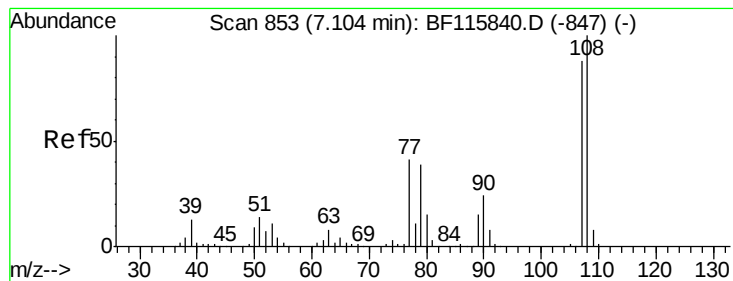
Ion Ratio Lower Upper

45 100

77 18.6 0.0 36.3

79 14.4 0.0 32.5

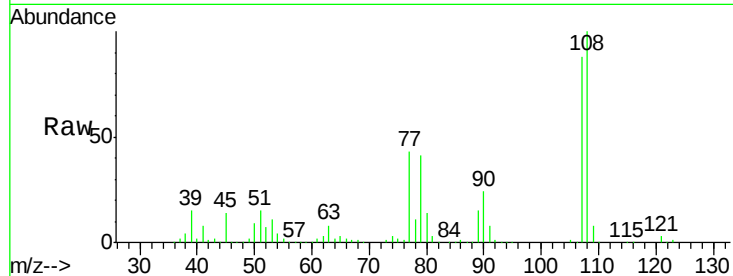




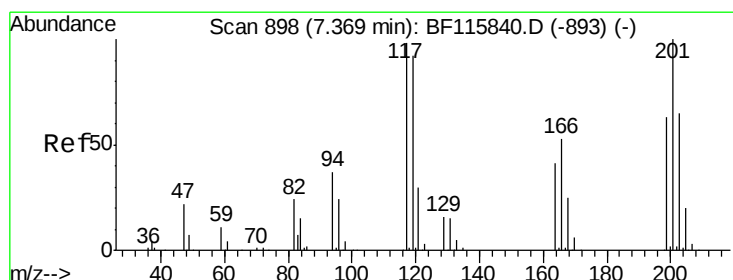
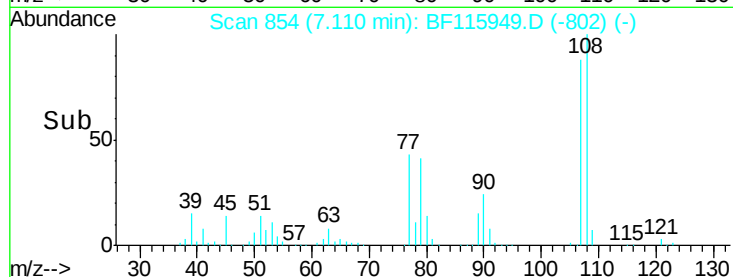
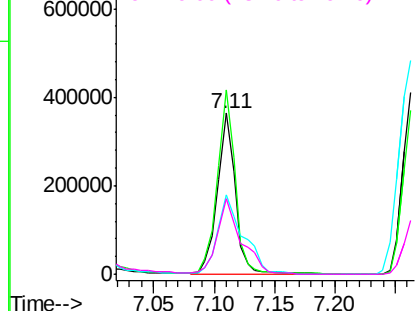
#17  
2-Methylphenol  
Concen: 46.089 ng  
RT: 7.11 min Scan# 854  
Delta R.T. 0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 107   | Resp: | 368629 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 114.2 | 91.4  | 137.0  |
| 77       | 49.4  | 37.6  | 56.4   |
| 79       | 46.7  | 36.2  | 54.4   |

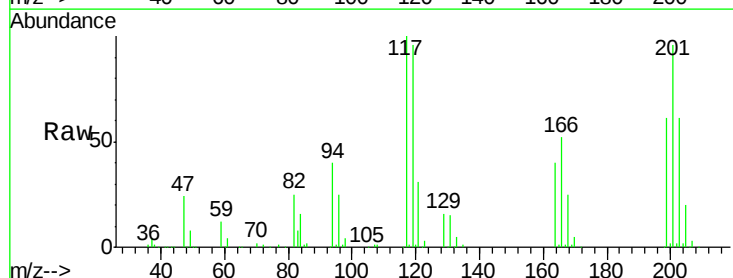


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

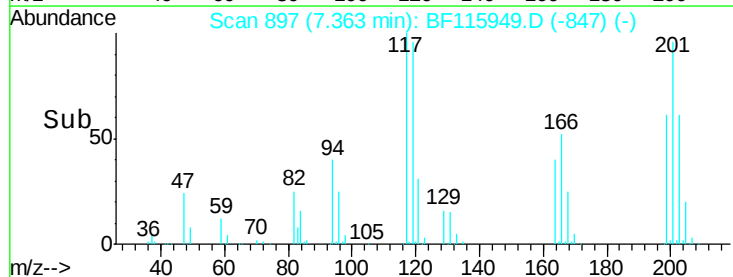
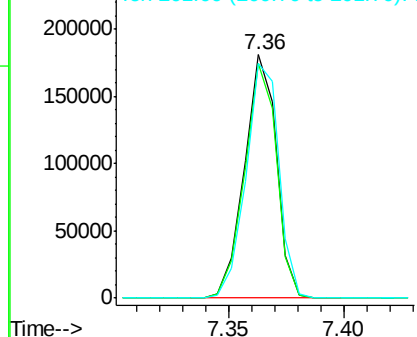


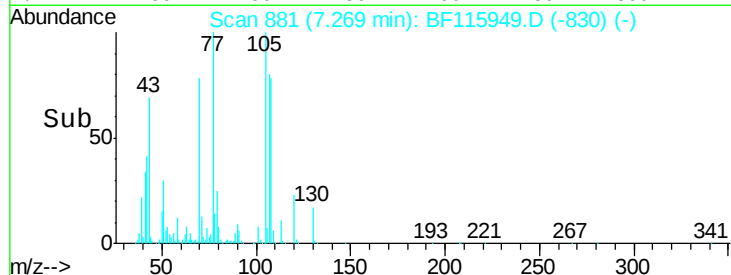
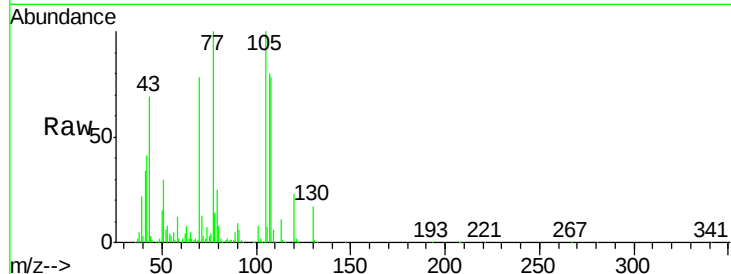
#18  
Hexachloroethane  
Concen: 43.562 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 175305 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 96.2  | 75.8  | 113.6  |
| 201      | 96.4  | 82.0  | 123.0  |



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

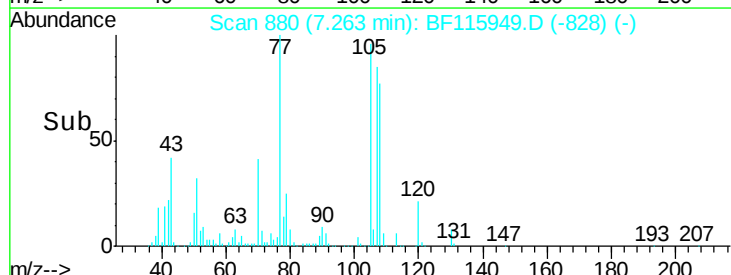
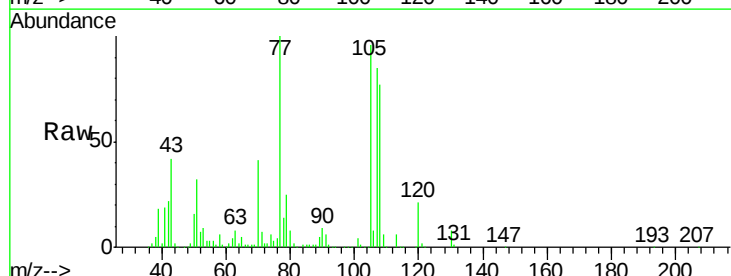
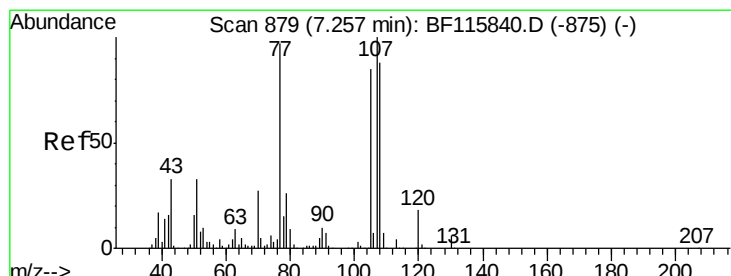
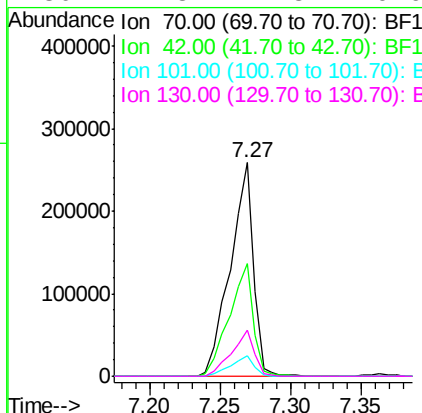




#19  
n-Nitroso-di-n-propylamine  
Concen: 44.420 ng  
RT: 7.27 min Scan# 881  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

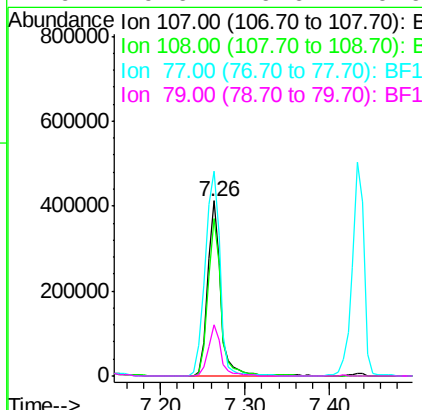
Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

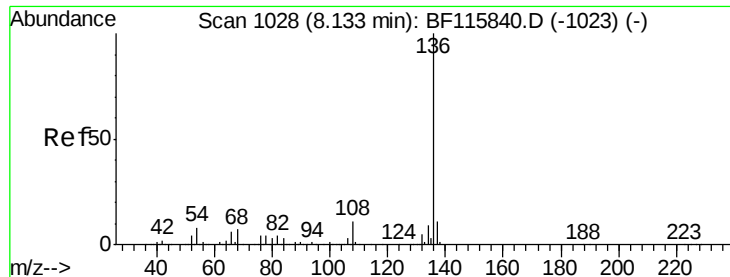
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 70    | Resp: | 296657 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 52.5  | 41.8  | 62.8   |
| 101      | 9.7   | 7.7   | 11.5   |
| 130      | 21.8  | 17.8  | 26.6   |



#20  
3+4-Methylphenols  
Concen: 45.930 ng  
RT: 7.26 min Scan# 880  
Delta R.T. 0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 434717 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 90.1  | 67.9  | 107.9  |
| 77       | 117.1 | 77.3  | 117.3  |
| 79       | 29.6  | 6.6   | 46.6   |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

Tot Ion:136 Resp: 593195

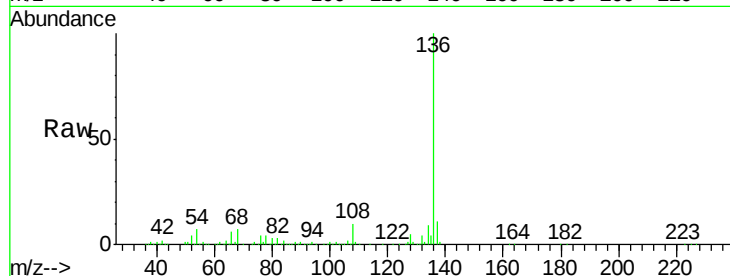
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 7.1 6.1 9.1

68 6.5 5.4 8.2

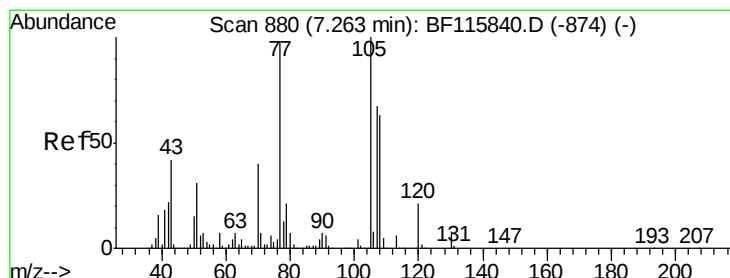
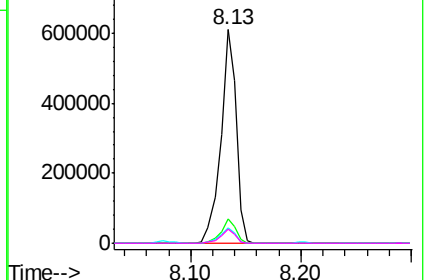
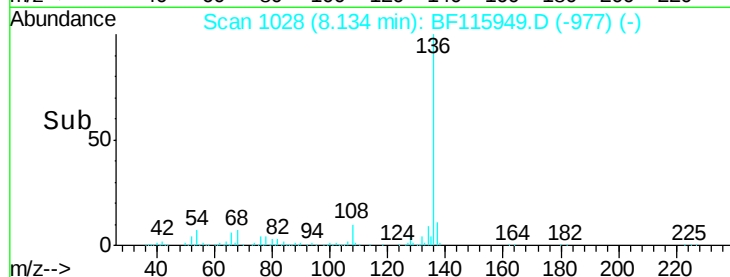


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 45.209 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Tgt Ion:105 Resp: 588145

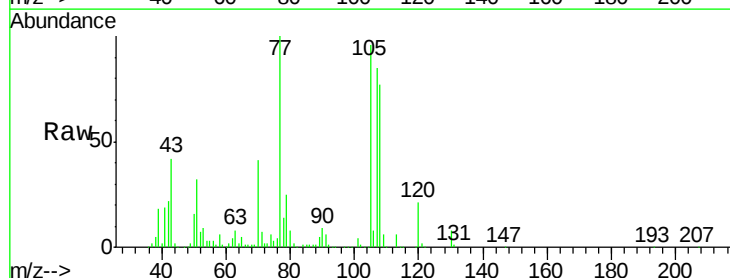
Ion Ratio Lower Upper

105 100

71 7.1 5.4 8.0

51 33.3 24.6 36.8

120 21.6 17.0 25.6

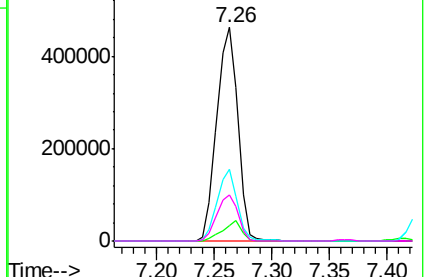
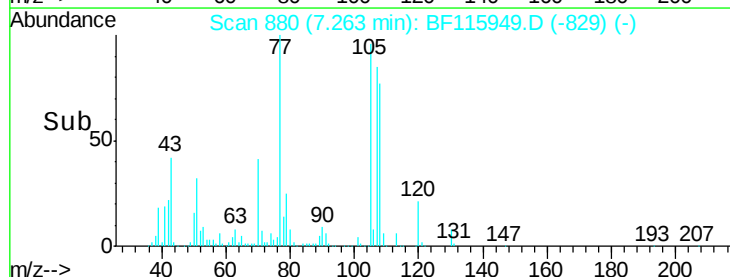


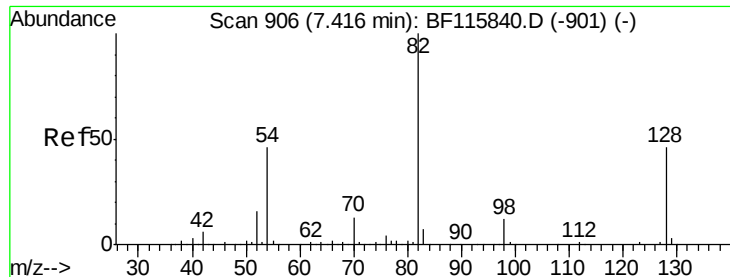
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

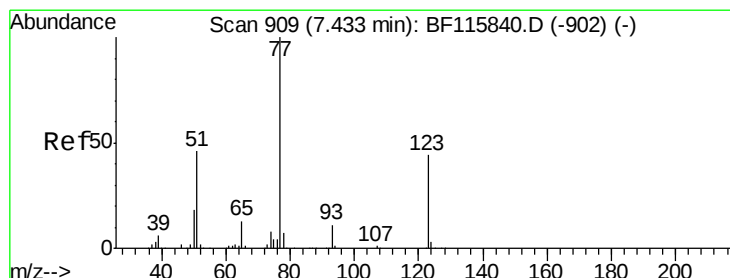
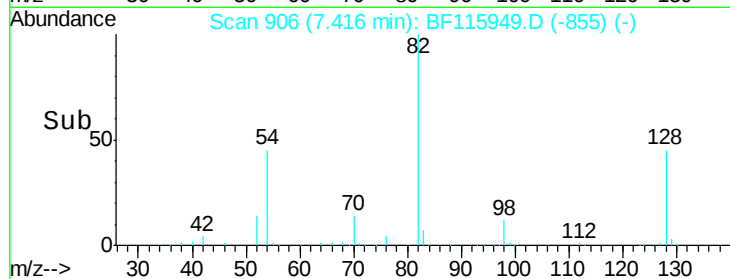
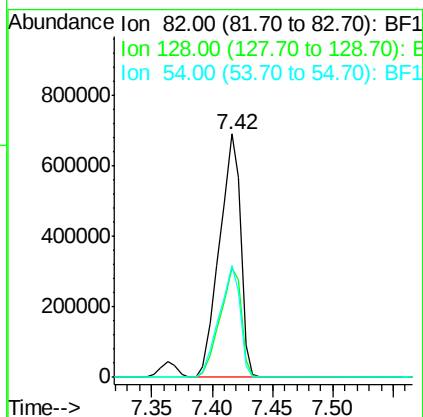
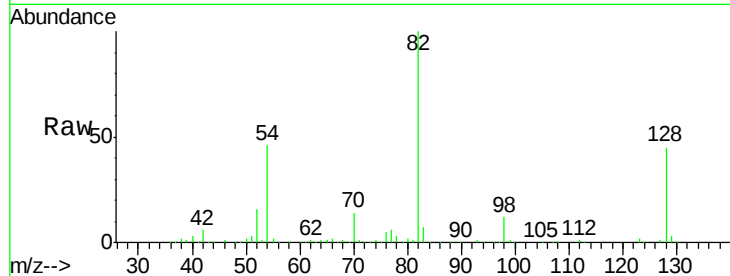




#23  
Nitrobenzene-d5  
Concen: 81.102 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

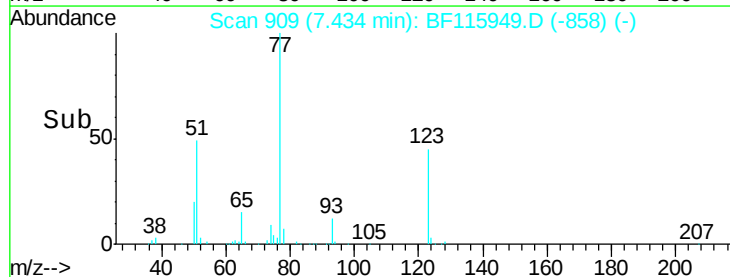
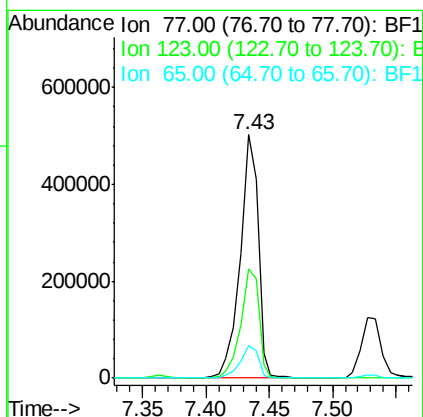
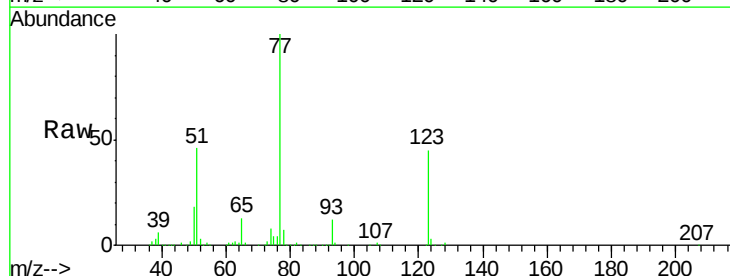
Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

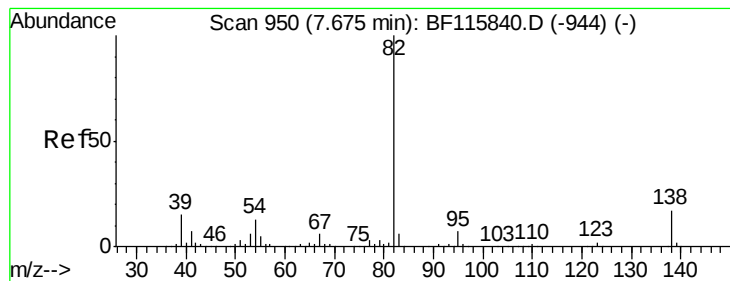
Tot Ion: 82 Resp: 833453  
Ion Ratio Lower Upper  
82 100  
128 45.1 36.6 55.0  
54 46.1 36.6 55.0



#24  
Nitrobenzene  
Concen: 44.123 ng  
RT: 7.43 min Scan# 909  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion: 77 Resp: 489598  
Ion Ratio Lower Upper  
77 100  
123 44.7 35.5 53.3  
65 13.4 10.6 15.8





#25

Isophorone

Concen: 44.287 ng

RT: 7.67 min Scan# 950

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

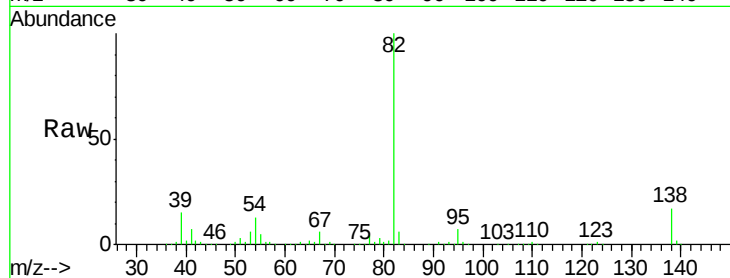
Tot Ion: 82 Resp: 870249

Ion Ratio Lower Upper

82 100

95 6.9 5.5 8.3

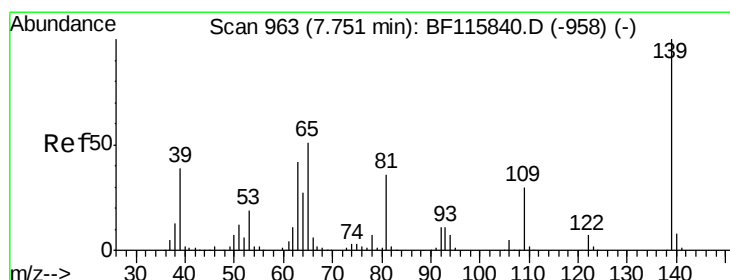
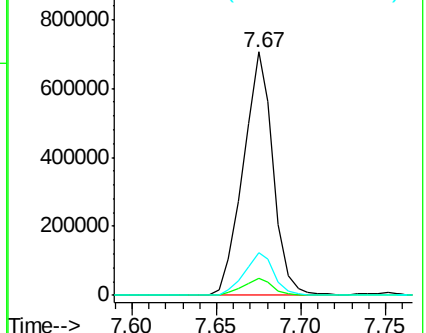
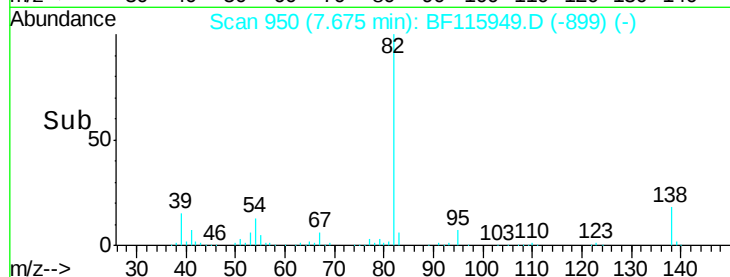
138 17.4 13.9 20.9



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: 45.903 ng

RT: 7.75 min Scan# 963

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

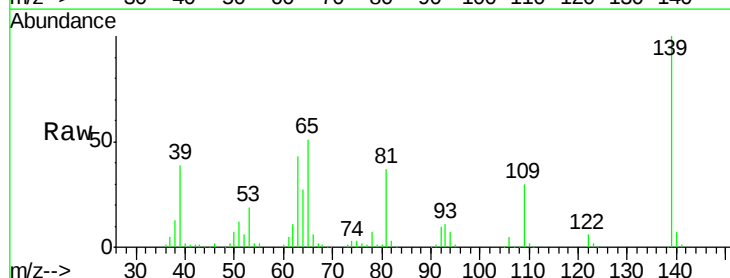
Tgt Ion: 139 Resp: 240098

Ion Ratio Lower Upper

139 100

109 29.7 23.6 35.4

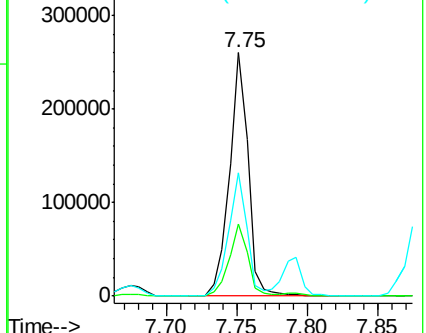
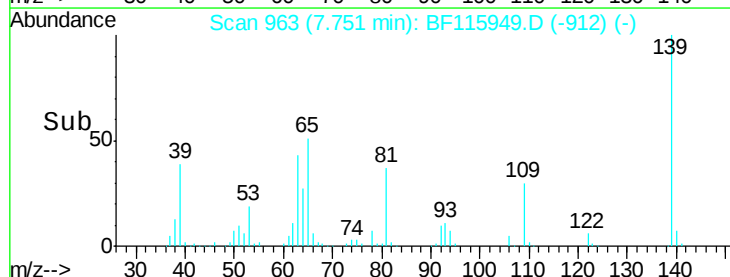
65 50.9 40.6 60.8



Abundance Ion 139.00 (138.70 to 139.70): BF1

Ion 109.00 (108.70 to 109.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

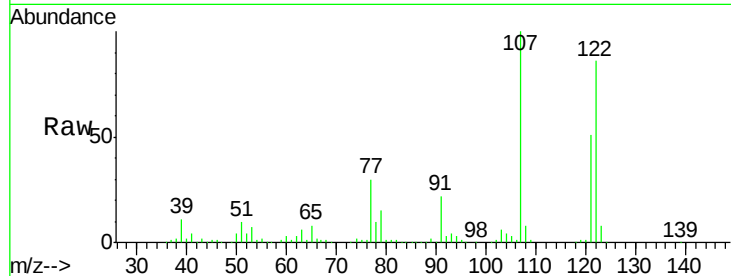




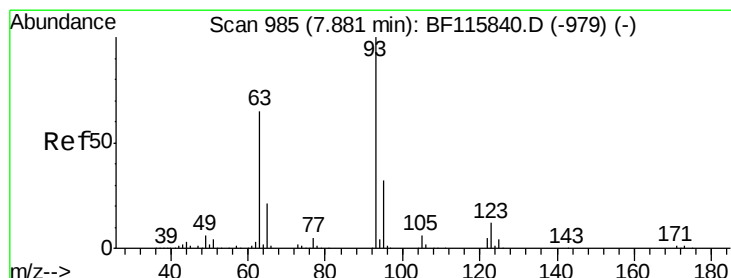
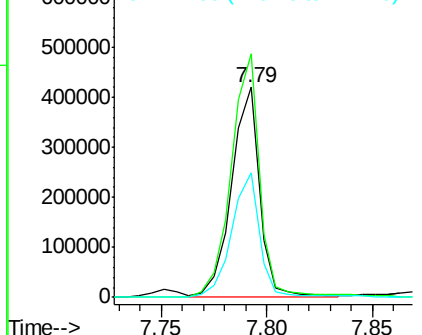
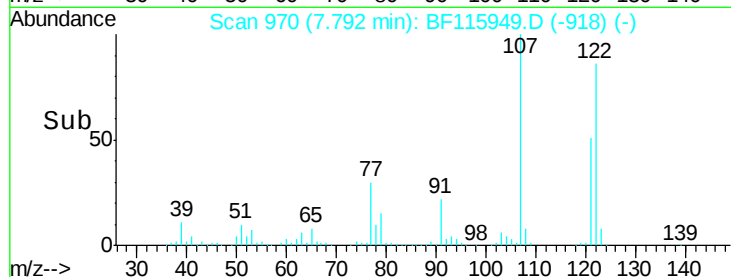
#27  
 2,4-Dimethylphenol  
 Concen: 49.402 ng  
 RT: 7.79 min Scan# 970  
 Delta R.T. 0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

Tot Ion:122 Resp: 388761  
 Ion Ratio Lower Upper  
 122 100  
 107 115.9 91.7 137.5  
 121 59.4 46.6 70.0

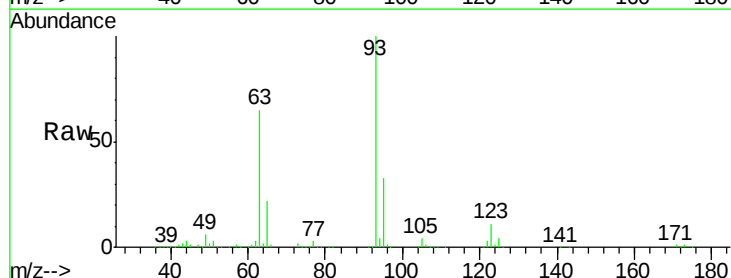


Abundance Ion 122.00 (121.70 to 122.70): E  
 Ion 107.00 (106.70 to 107.70): E  
 Ion 121.00 (120.70 to 121.70): E

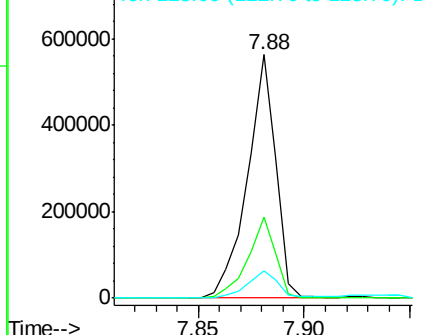
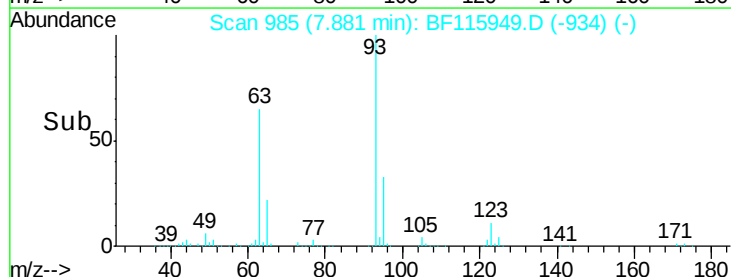


#28  
 bis(2-Chloroethoxy)methane  
 Concen: 43.292 ng  
 RT: 7.88 min Scan# 985  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion: 93 Resp: 527274  
 Ion Ratio Lower Upper  
 93 100  
 95 33.1 26.0 39.0  
 123 11.4 9.5 14.3



Abundance Ion 93.00 (92.70 to 93.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 123.00 (122.70 to 123.70): E

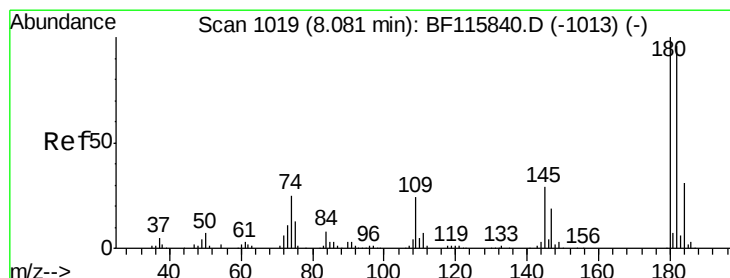
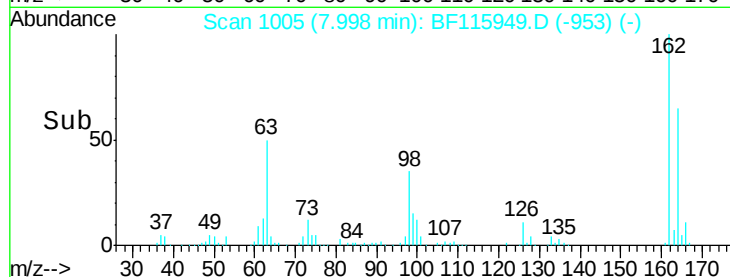
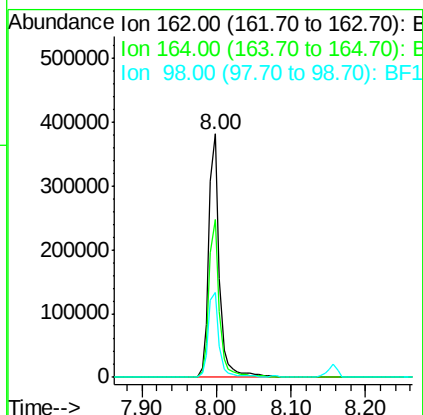
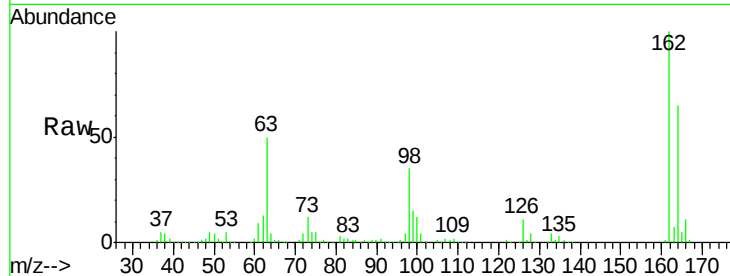




#29  
 2,4-Dichlorophenol  
 Concen: 45.645 ng  
 RT: 8.00 min Scan# 1005  
 Delta R.T. 0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

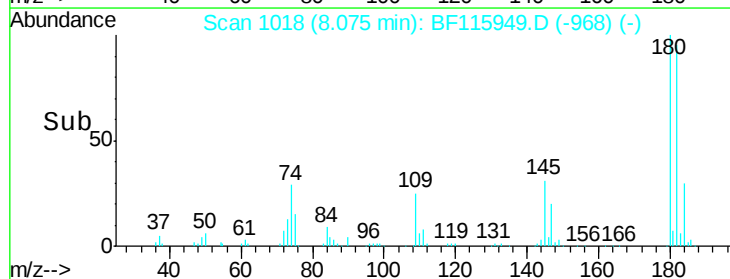
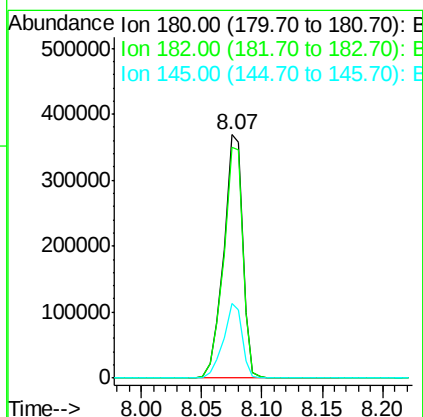
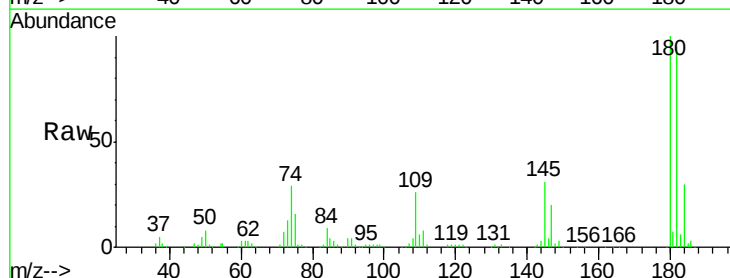
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

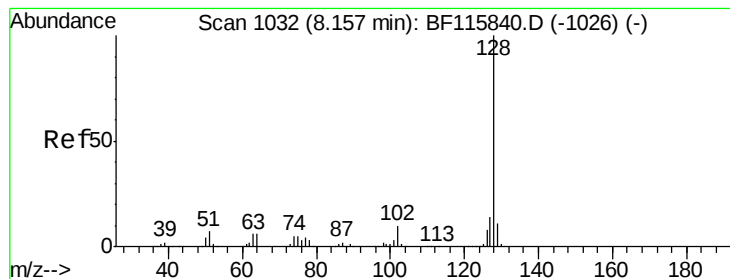
Tot Ion:162 Resp: 379265  
 Ion Ratio Lower Upper  
 162 100  
 164 65.0 43.2 83.2  
 98 34.7 17.3 57.3



#30  
 1,2,4-Trichlorobenzene  
 Concen: 42.764 ng  
 RT: 8.07 min Scan# 1018  
 Delta R.T. -0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion:180 Resp: 405037  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 76.6 114.8  
 145 30.6 23.2 34.8





#31

Naphthalene

Concen: 44.628 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

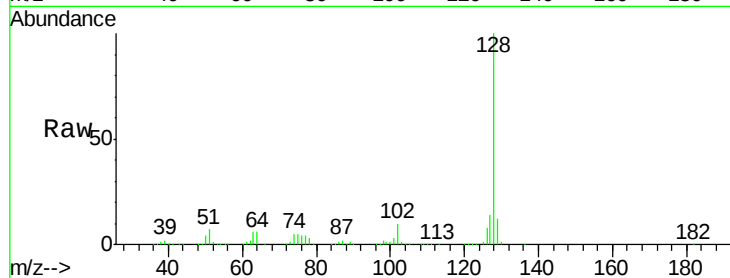
Tot Ion:128 Resp: 1245775

Ion Ratio Lower Upper

128 100

129 11.7 9.2 13.8

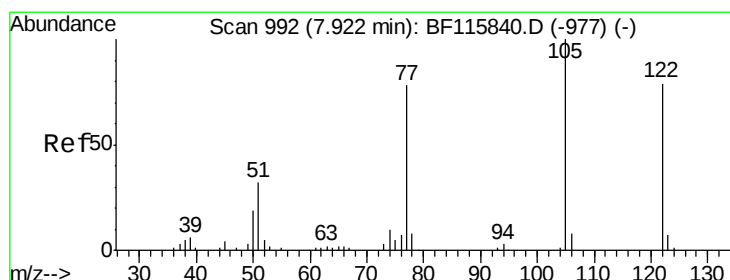
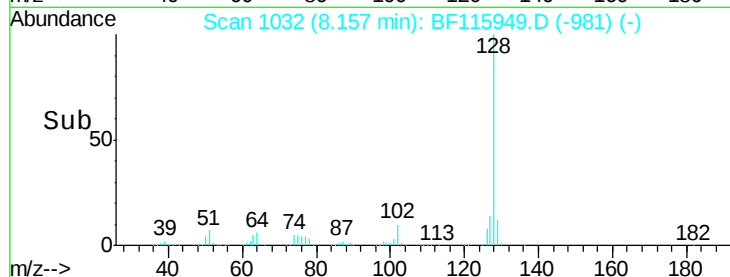
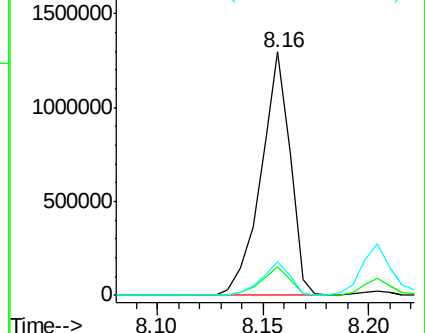
127 14.1 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 46.673 ng

RT: 7.94 min Scan# 995

Delta R.T. 0.02 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

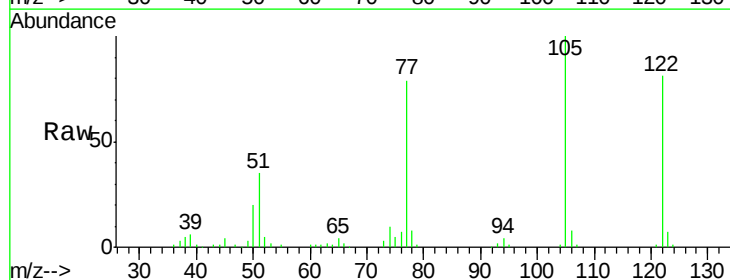
Tgt Ion:122 Resp: 258946

Ion Ratio Lower Upper

122 100

105 123.7 103.1 143.1

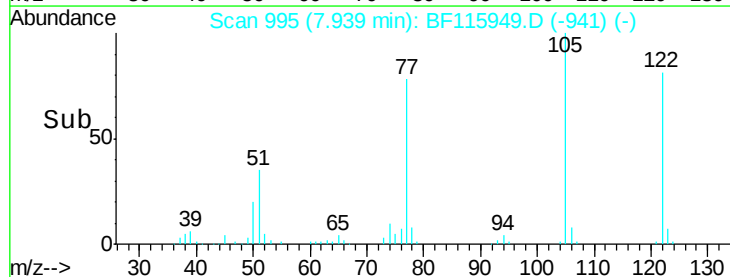
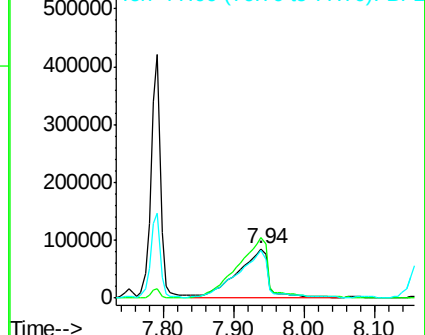
77 97.2 76.8 116.8

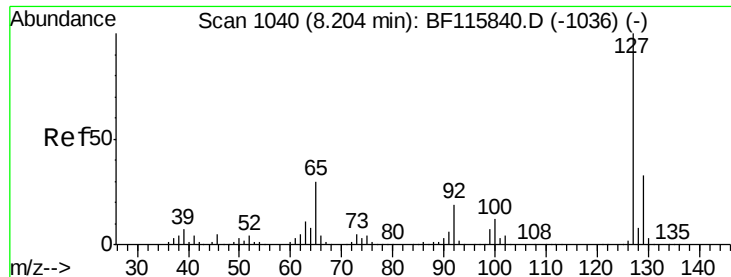


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

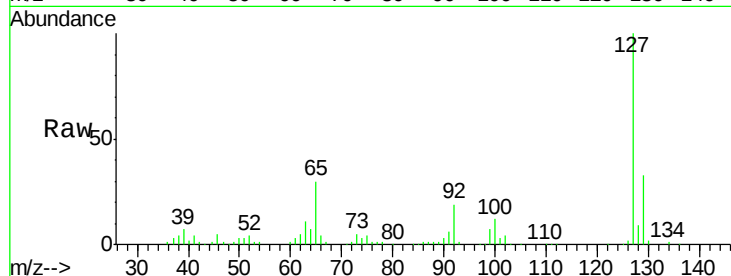




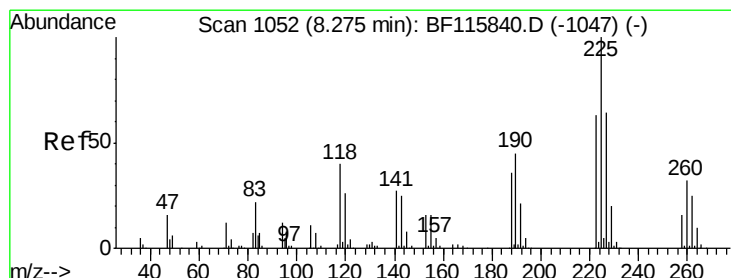
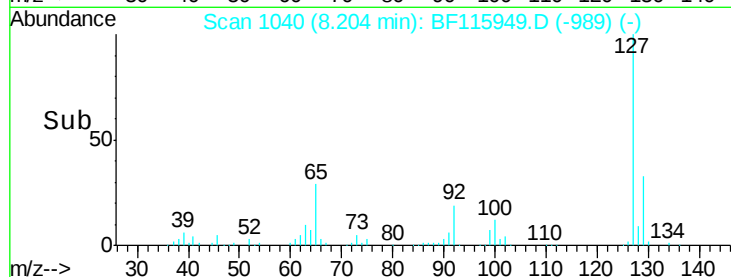
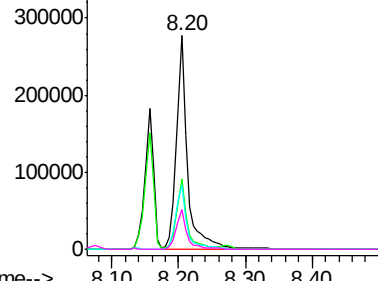
#33  
4-Chloroaniline  
Concen: 25.257 ng  
RT: 8.20 min Scan# 1040  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 127   | Resp: | 315018 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 32.7  | 26.0  | 39.0   |
| 65       | 29.8  | 23.9  | 35.9   |
| 92       | 18.7  | 14.9  | 22.3   |

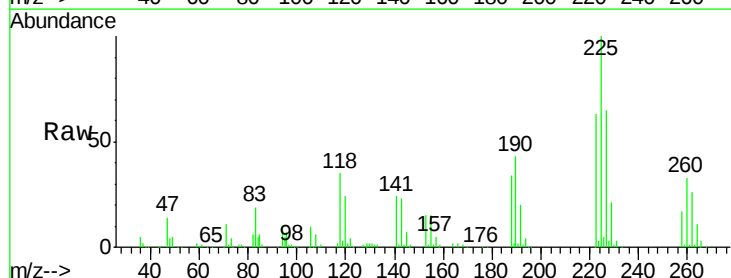


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1

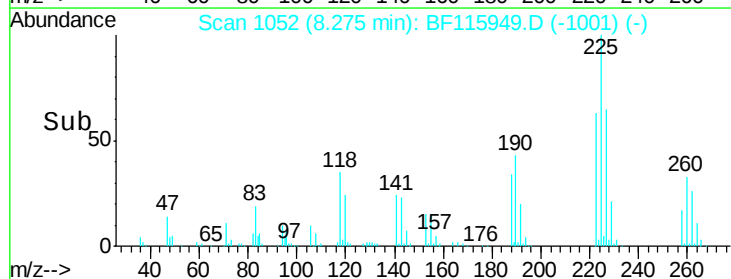
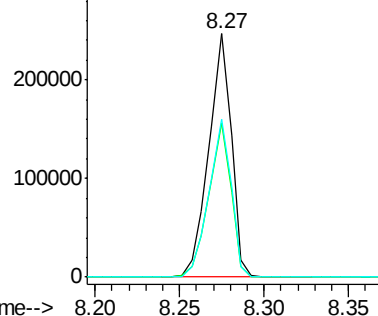


#34  
Hexachlorobutadiene  
Concen: 42.003 ng  
RT: 8.27 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 229149 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 63.2  | 50.4  | 75.6   |
| 227      | 64.9  | 51.6  | 77.4   |



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

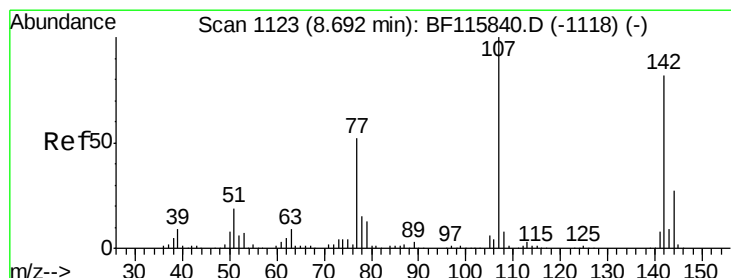
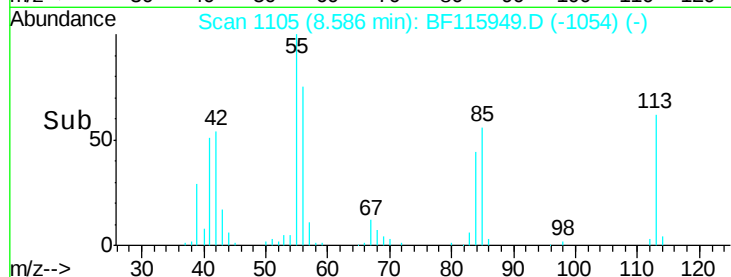
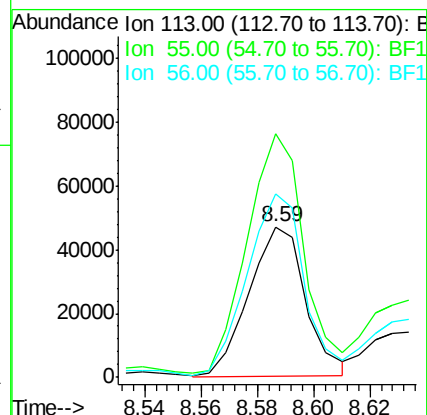
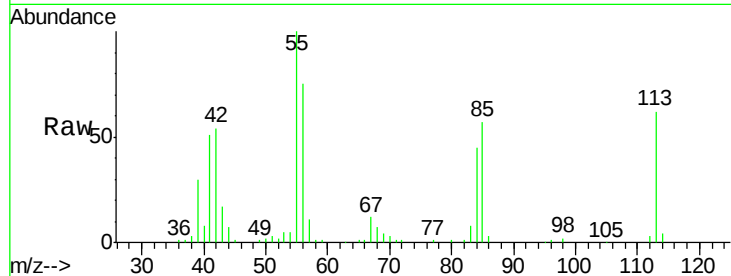




#35  
 Caprolactam  
 Concen: 24.404 ng  
 RT: 8.59 min Scan# 1105  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

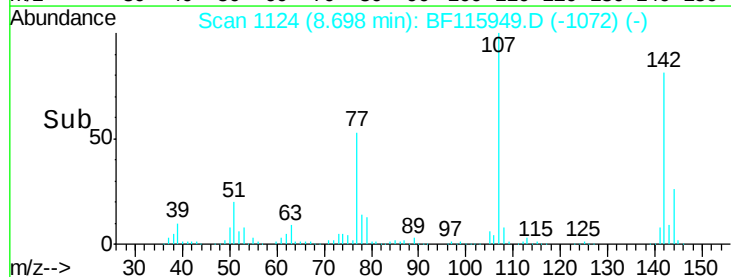
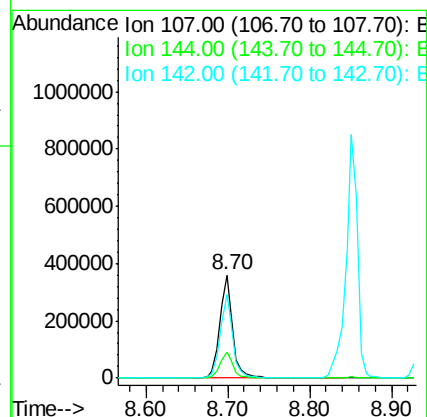
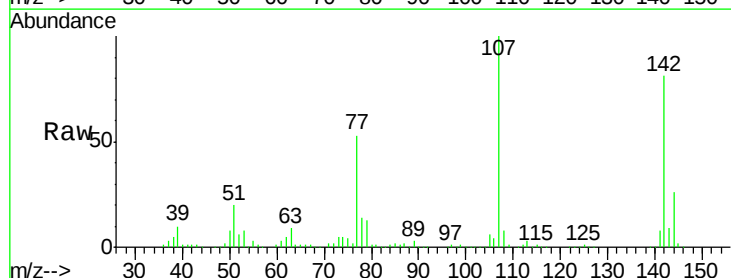
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

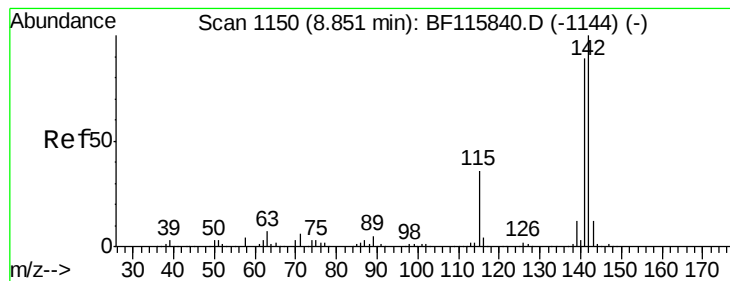
Tot Ion:113 Resp: 65581  
 Ion Ratio Lower Upper  
 113 100  
 55 161.5 138.1 178.1  
 56 121.5 100.6 140.6



#36  
 4-Chloro-3-methylphenol  
 Concen: 45.664 ng  
 RT: 8.70 min Scan# 1124  
 Delta R.T. 0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion:107 Resp: 394720  
 Ion Ratio Lower Upper  
 107 100  
 144 25.7 21.4 32.0  
 142 81.1 65.5 98.3

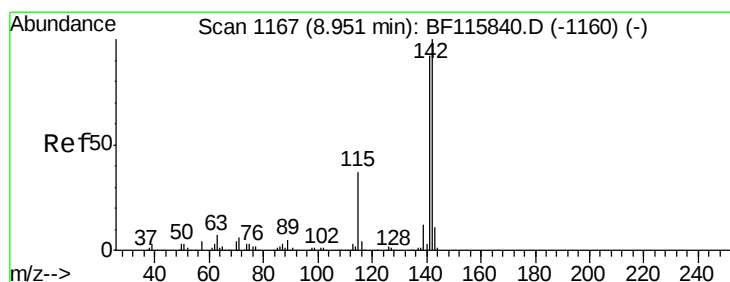
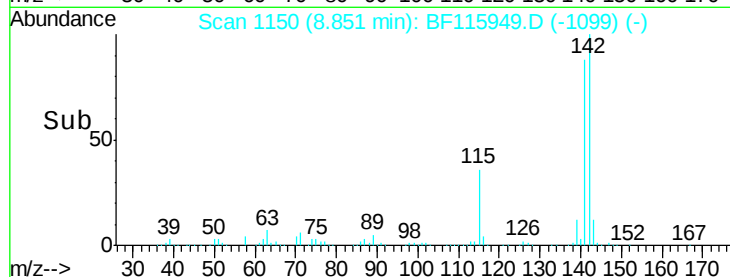
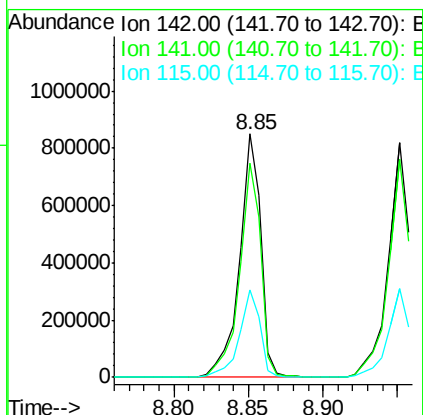
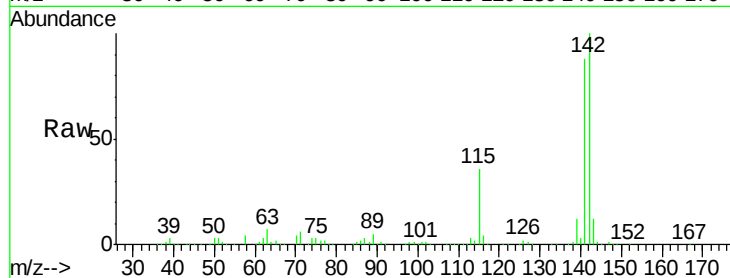




#37  
 2-Methylnaphthalene  
 Concen: 45.900 ng  
 RT: 8.85 min Scan# 1150  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

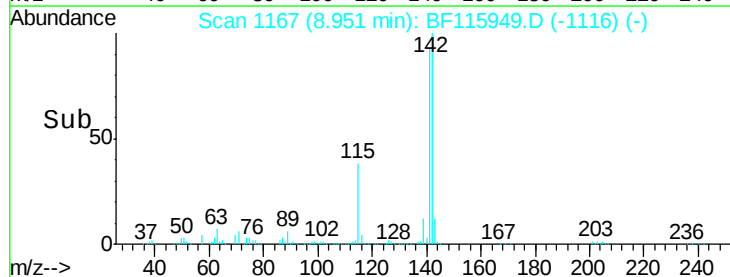
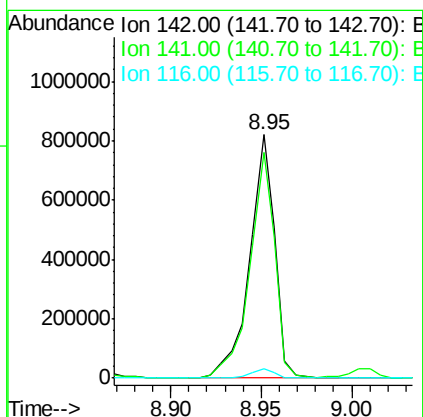
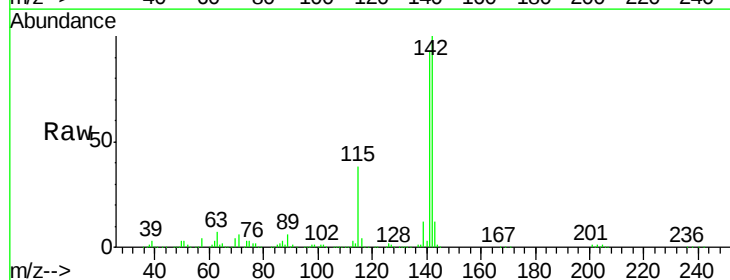
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

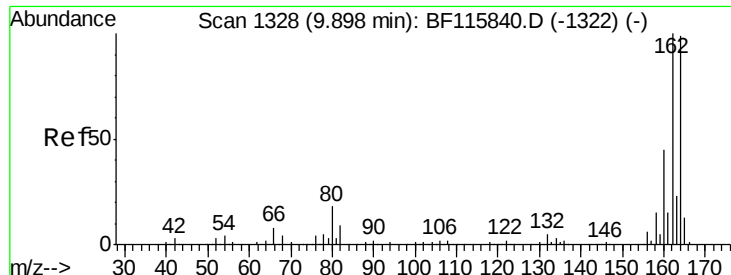
Tot Ion:142 Resp: 843824  
 Ion Ratio Lower Upper  
 142 100  
 141 87.8 71.4 107.2  
 115 36.0 28.9 43.3



#38  
 1-Methylnaphthalene  
 Concen: 44.904 ng  
 RT: 8.95 min Scan# 1167  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion:142 Resp: 780980  
 Ion Ratio Lower Upper  
 142 100  
 141 92.9 73.8 110.6  
 116 4.0 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

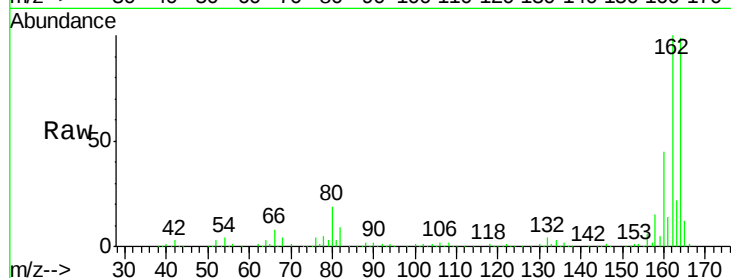
Tot Ion:164 Resp: 316799

Ion Ratio Lower Upper

164 100

162 100.7 80.8 121.2

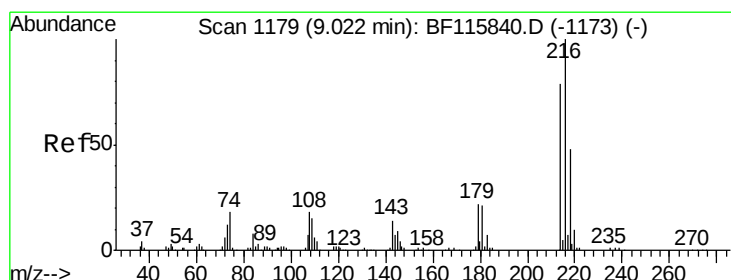
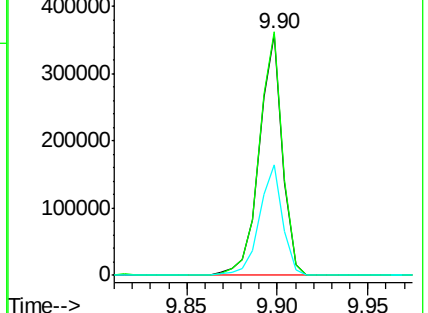
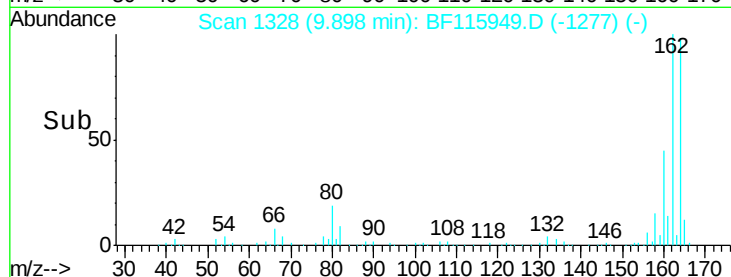
160 45.6 36.2 54.4



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



#40

1,2,4,5-Tetrachlorobenzene

Concen: 44.933 ng

RT: 9.02 min Scan# 1179

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Tgt Ion:216 Resp: 380552

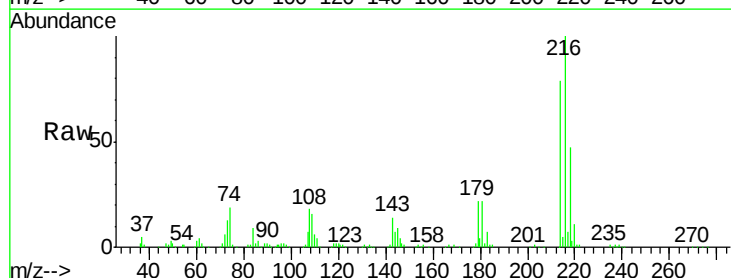
Ion Ratio Lower Upper

216 100

214 79.1 62.8 94.2

179 22.0 17.6 26.4

108 21.1 16.1 24.1

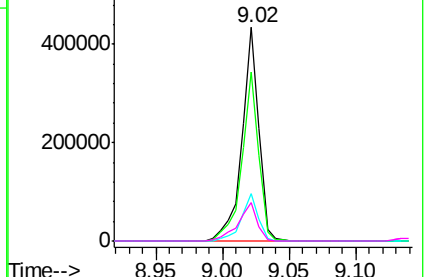
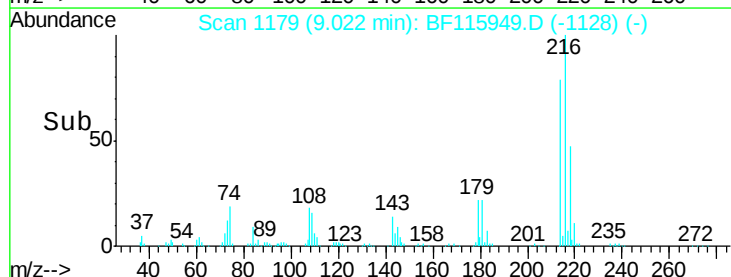


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

Hexachlorocyclopentadiene

Concen: 66.172 ng

RT: 9.01 min Scan# 1177

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

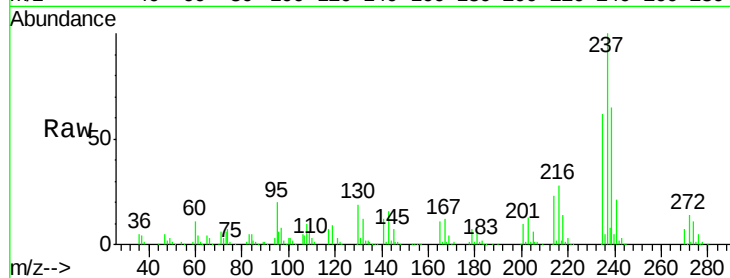
Tot Ion:237 Resp: 247392

Ion Ratio Lower Upper

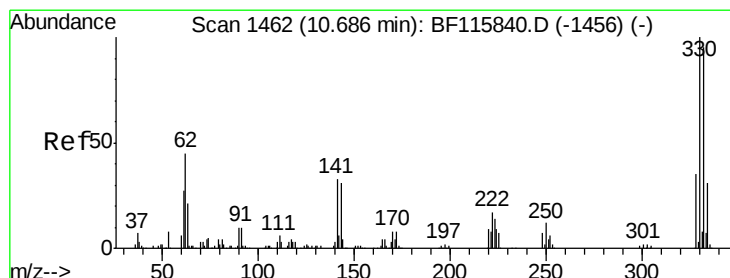
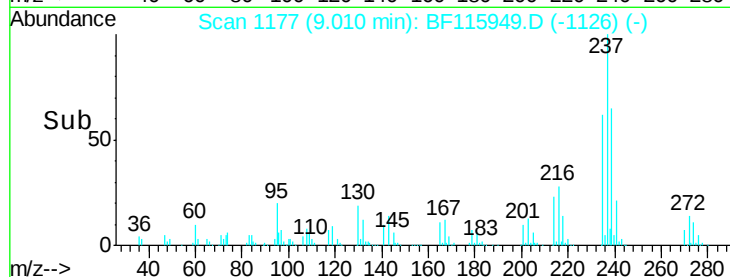
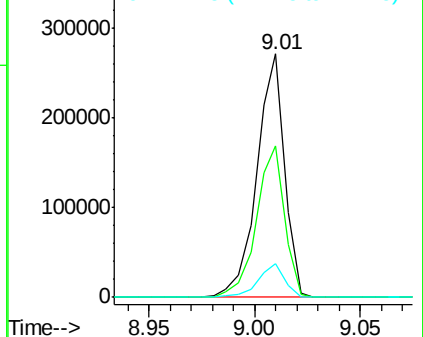
237 100

235 62.0 42.5 82.5

272 13.9 0.0 33.3



Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 113.994 ng

RT: 10.69 min Scan# 1463

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

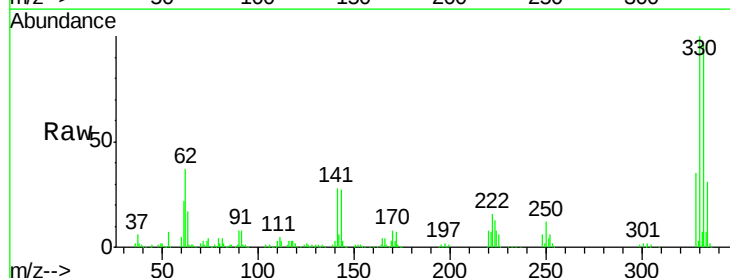
Tgt Ion:330 Resp: 350128

Ion Ratio Lower Upper

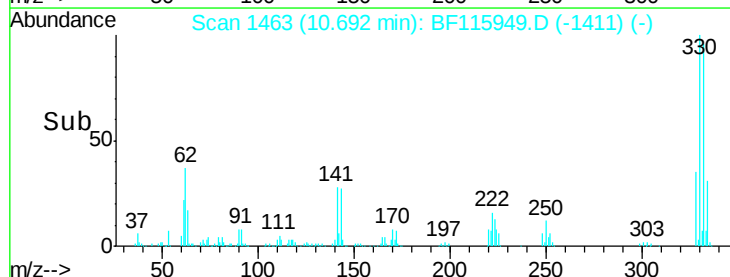
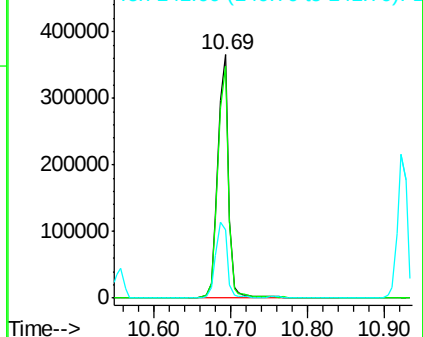
330 100

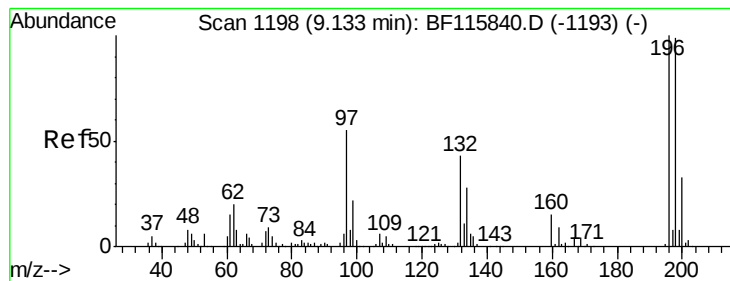
332 96.7 77.7 116.5

141 33.8 28.1 42.1



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





#43

2,4,6-Trichlorophenol

Concen: 42.994 ng

RT: 9.13 min Scan# 1198

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

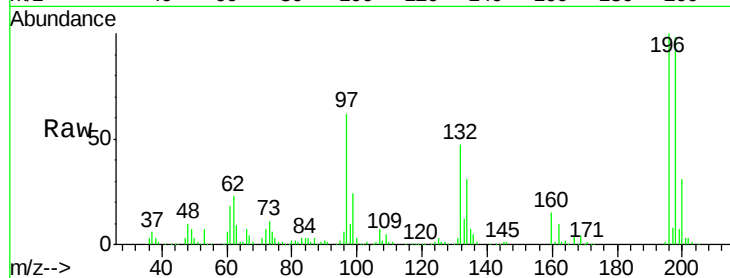
Tot Ion:196 Resp: 250638

Ion Ratio Lower Upper

196 100

198 98.4 79.1 118.7

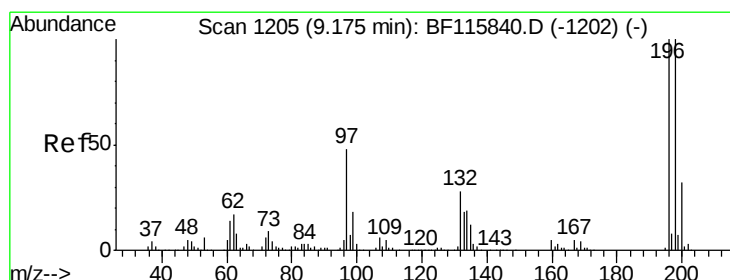
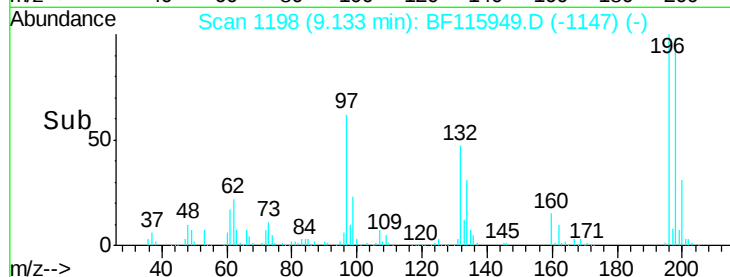
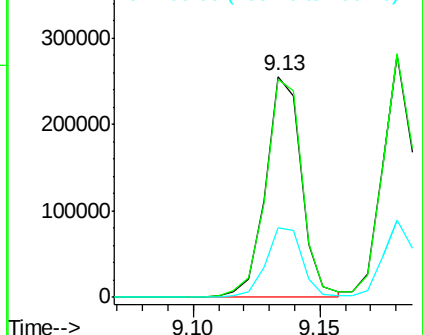
200 31.3 26.0 39.0



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#44

2,4,5-Trichlorophenol

Concen: 44.574 ng

RT: 9.18 min Scan# 1206

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Tgt Ion:196 Resp: 268606

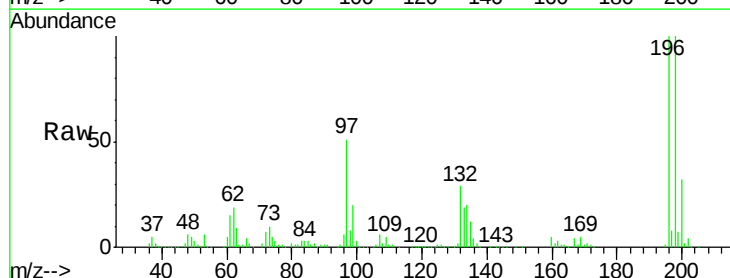
Ion Ratio Lower Upper

196 100

198 100.5 80.1 120.1

97 50.8 38.9 58.3

132 29.3 22.6 33.8

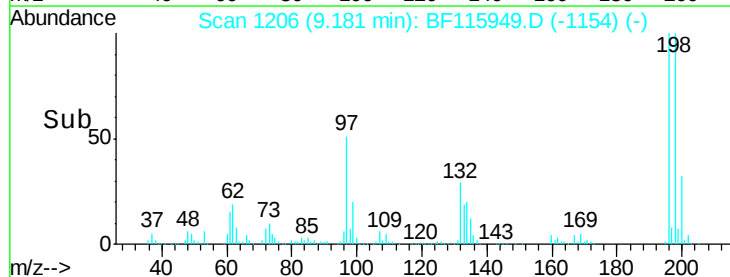
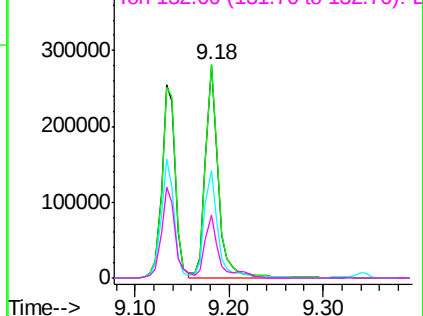


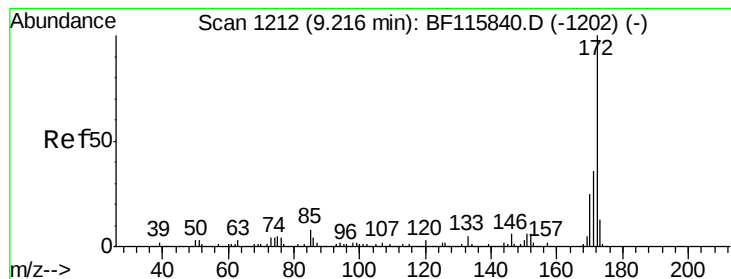
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF1

Ion 132.00 (131.70 to 132.70): E





#45

2-Fluorobiphenyl

Concen: 83.919 ng

RT: 9.22 min Scan# 1212

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

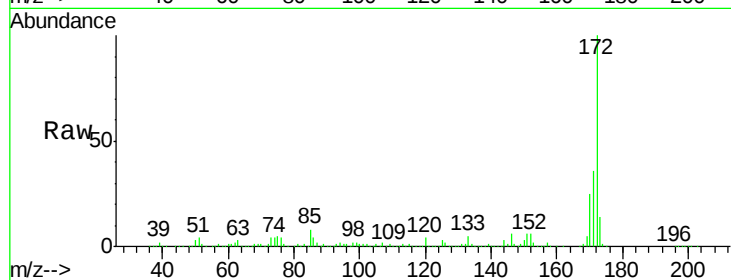
BNA\_F

ClientSampleId :

PB121932BS

Tot Ion:172 Resp: 1419347

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.4  | 29.1  | 43.7  |
| 170 | 25.0  | 20.1  | 30.1  |

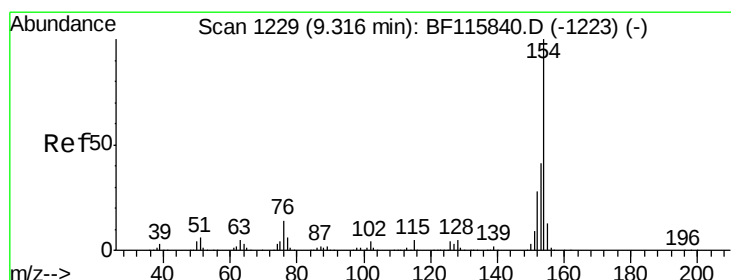
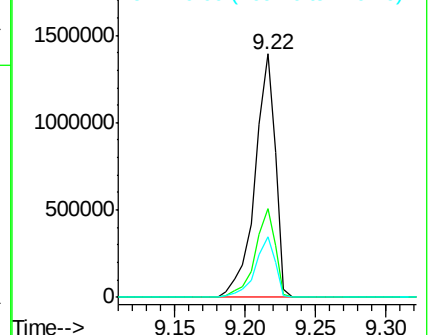
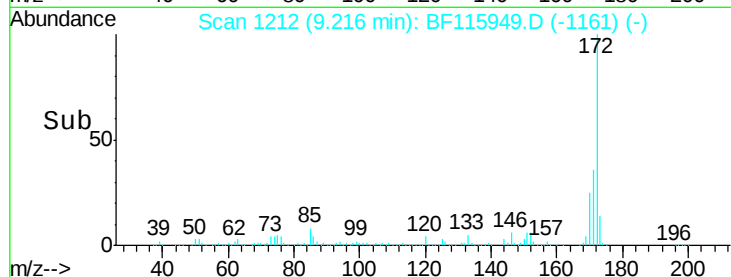


Abundance

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



#46

1,1'-Biphenyl

Concen: 44.884 ng

RT: 9.32 min Scan# 1229

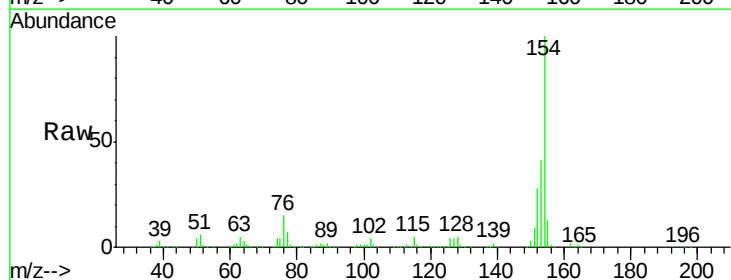
Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Tgt Ion:154 Resp: 1003874

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 41.4  | 20.9  | 60.9  |
| 76  | 14.7  | 0.0   | 34.3  |

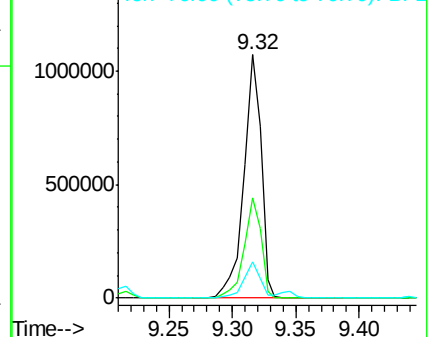
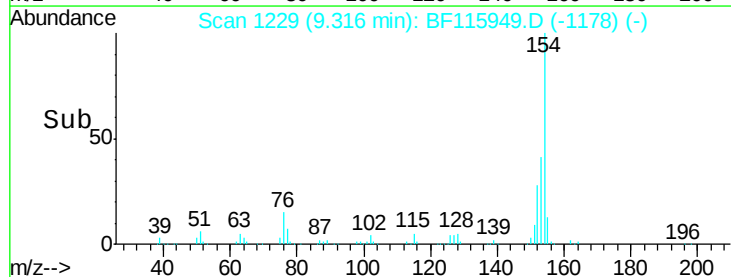


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1

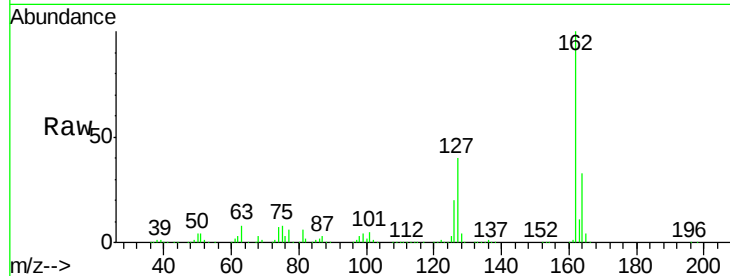




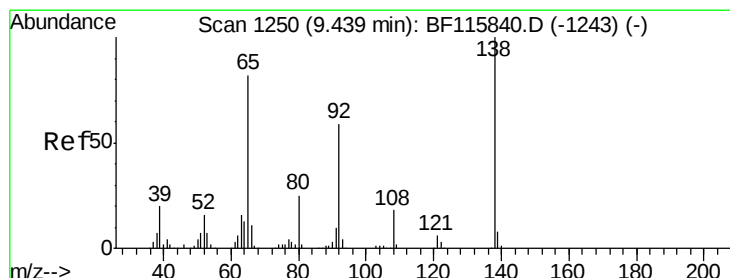
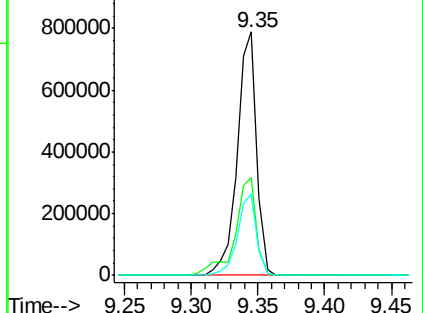
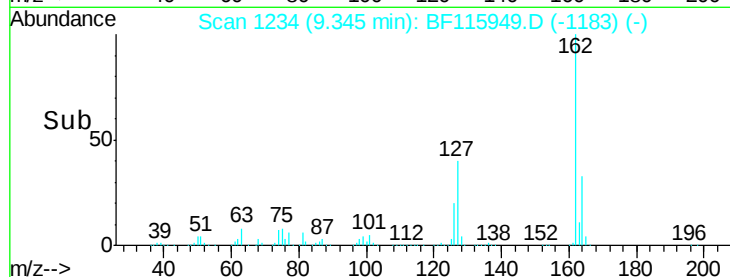
#47  
 2-Chloronaphthalene  
 Concen: 42.810 ng  
 RT: 9.35 min Scan# 1234  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 39.9  | 31.3  | 46.9  |
| 164     | 33.5  | 26.6  | 40.0  |

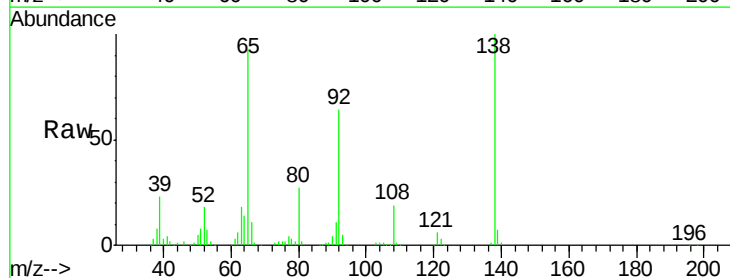


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E

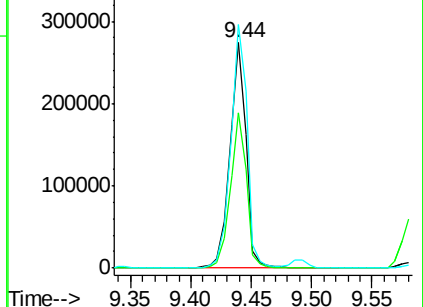
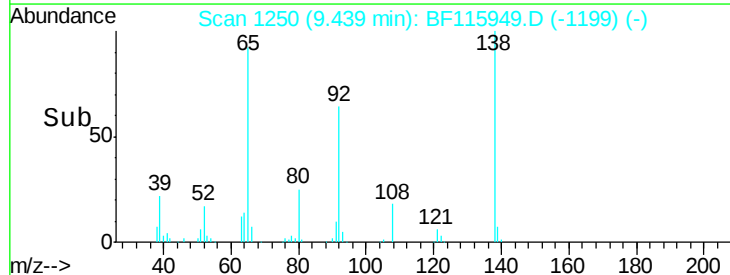


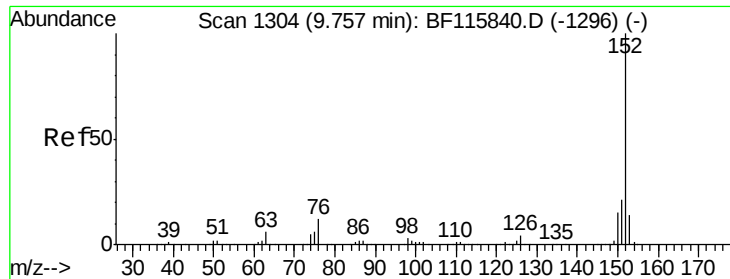
#48  
 2-Nitroaniline  
 Concen: 41.356 ng  
 RT: 9.44 min Scan# 1250  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 68.8  | 57.1  | 85.7  |
| 138     | 108.1 | 97.1  | 145.7 |



Abundance Ion 65.00 (64.70 to 65.70): BF1  
 Ion 92.00 (91.70 to 92.70): BF1  
 Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 44.785 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

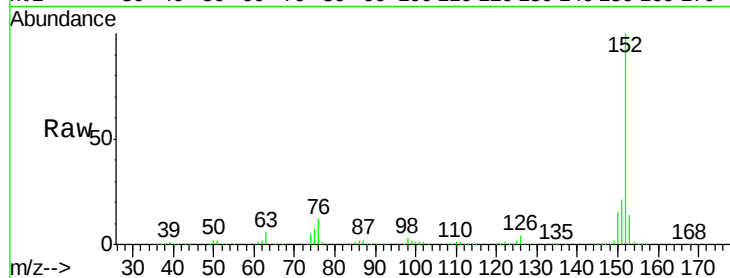
Tot Ion:152 Resp: 1216266

Ion Ratio Lower Upper

152 100

151 21.4 16.8 25.2

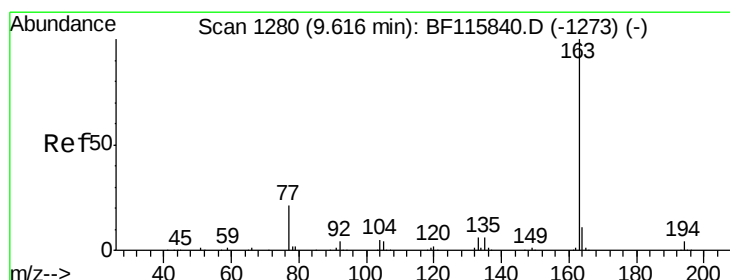
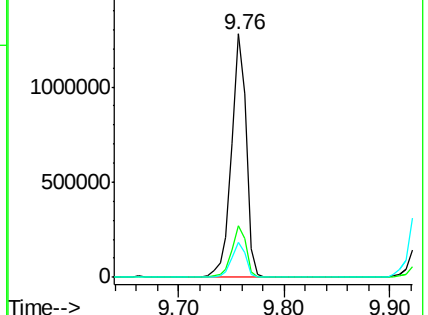
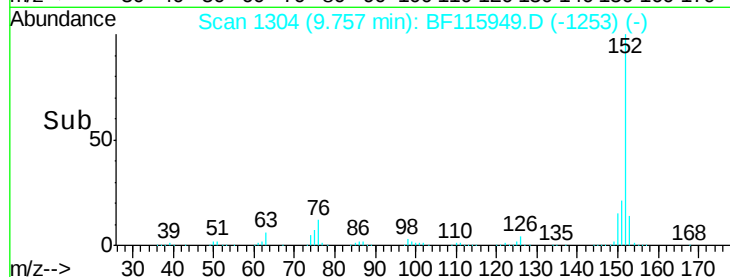
153 14.2 11.6 17.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 43.102 ng

RT: 9.62 min Scan# 1281

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

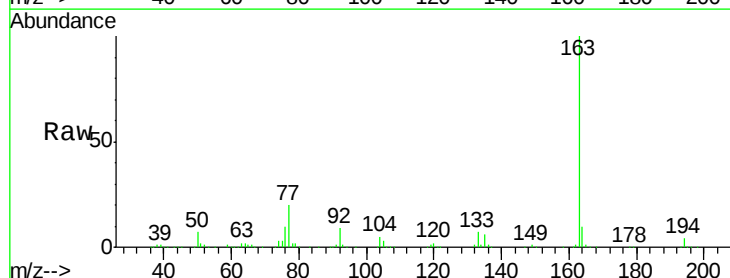
Tgt Ion:163 Resp: 929733

Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

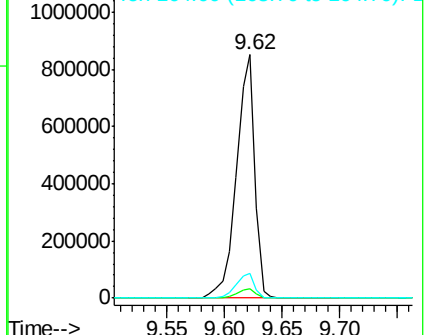
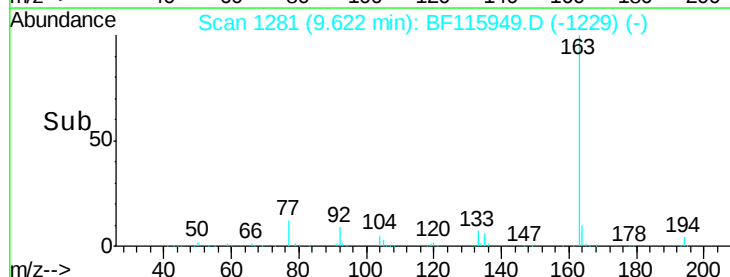
164 10.2 8.4 12.6

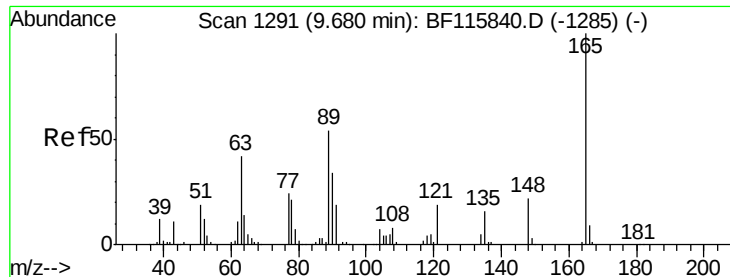


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 44.313 ng

RT: 9.68 min Scan# 1291

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

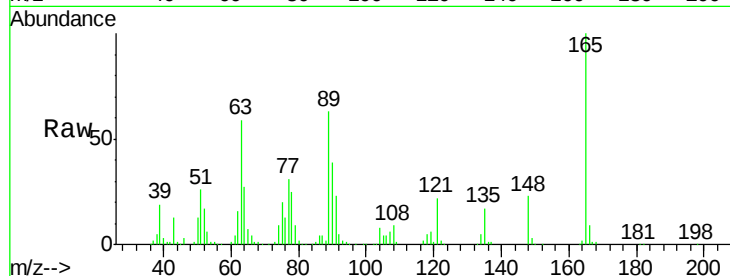
Tot Ion:165 Resp: 207721

Ion Ratio Lower Upper

165 100

63 58.6 39.4 59.2

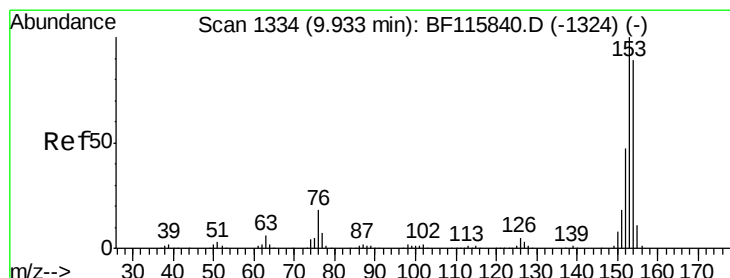
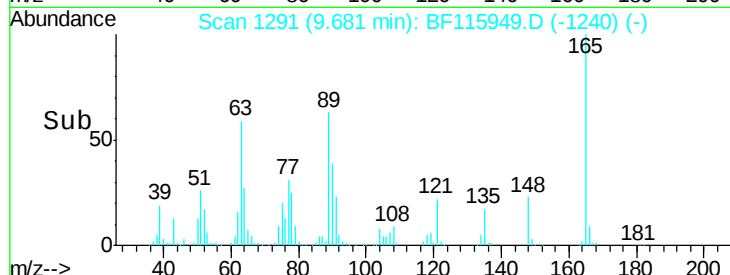
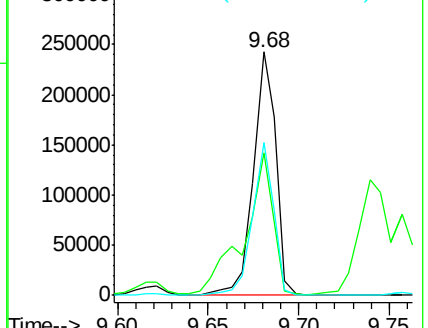
89 62.7 43.0 64.6



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



#52

Acenaphthene

Concen: 43.237 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

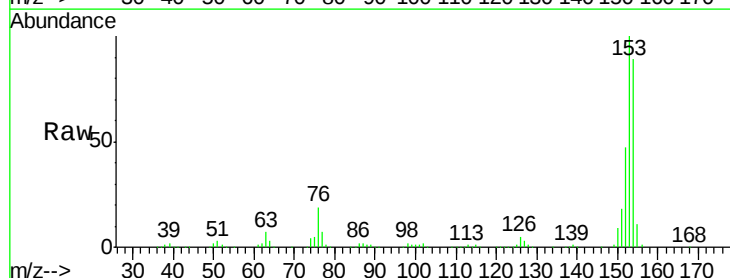
Tgt Ion:154 Resp: 720363

Ion Ratio Lower Upper

154 100

153 112.1 90.1 135.1

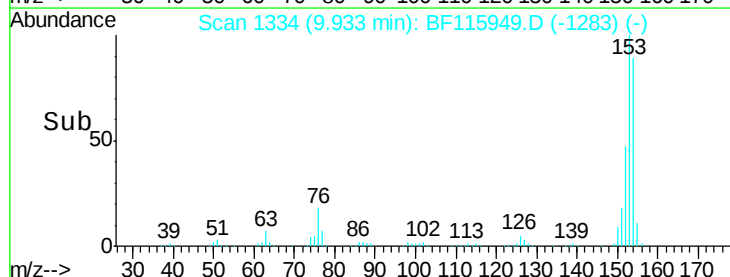
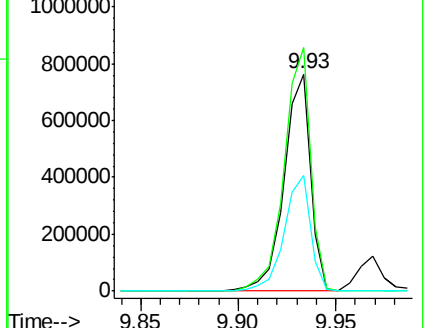
152 53.1 42.6 63.8

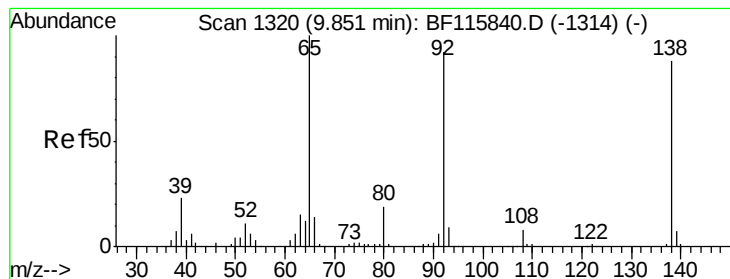


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#53

3-Nitroaniline

Concen: 29.602 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

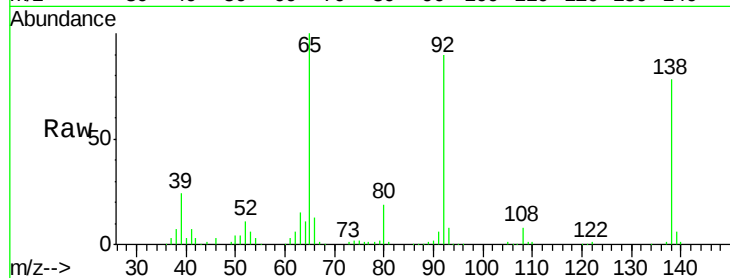
Tot Ion:138 Resp: 171457

Ion Ratio Lower Upper

138 100

108 10.0 7.4 11.2

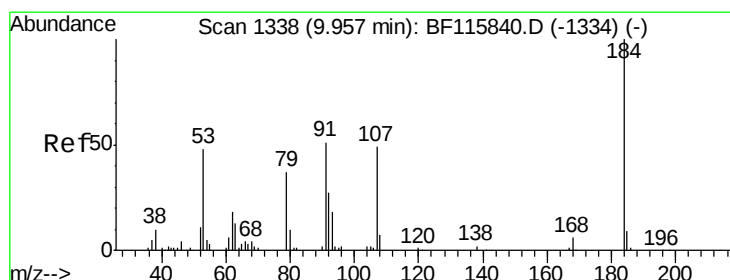
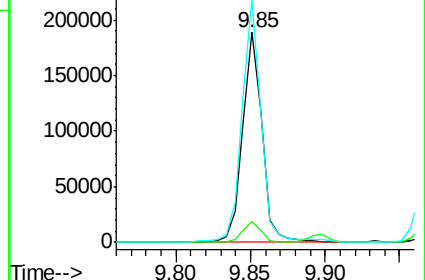
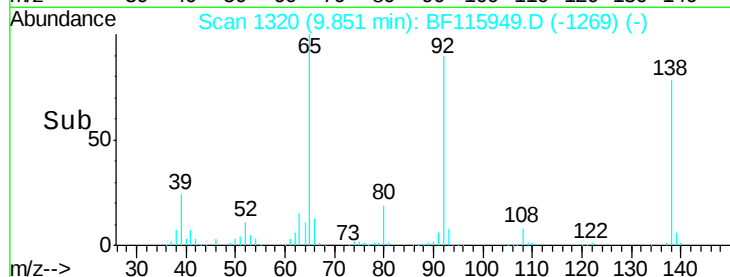
92 115.8 83.9 125.9



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54

2,4-Dinitrophenol

Concen: 77.296 ng

RT: 9.97 min Scan# 1340

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

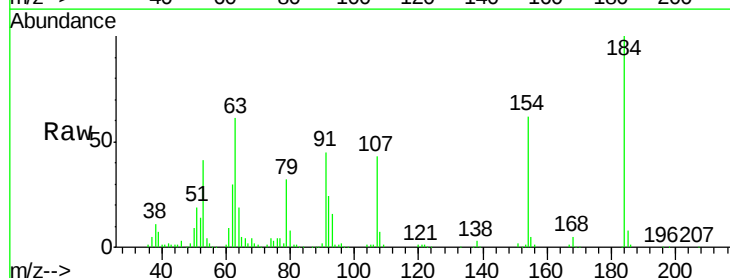
Tgt Ion:184 Resp: 183591

Ion Ratio Lower Upper

184 100

63 61.2 56.7 85.1

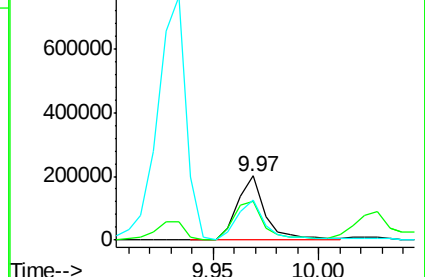
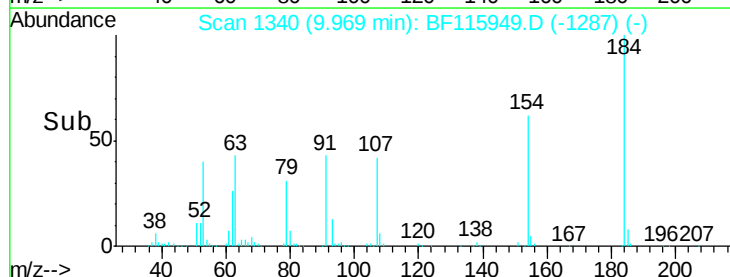
154 62.0 51.9 77.9

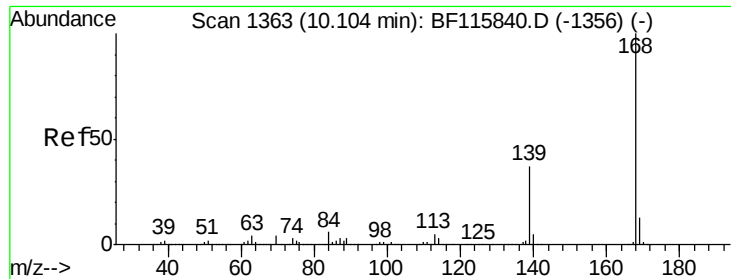


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

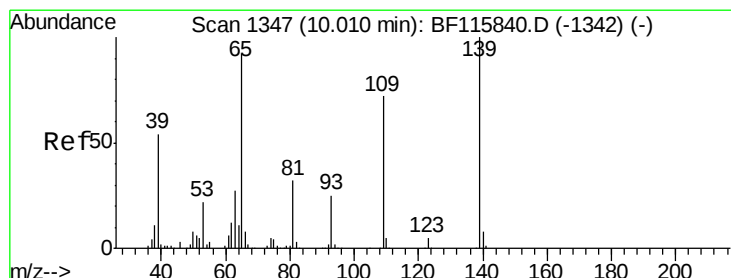
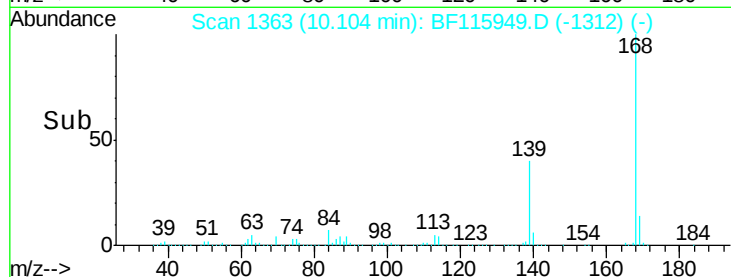
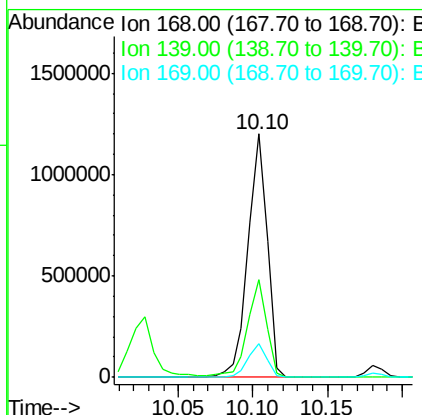
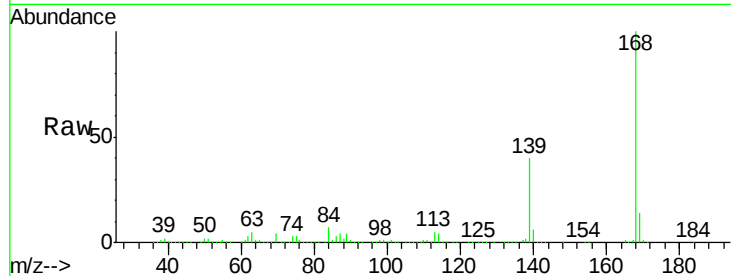




#55  
Dibenzenofuran  
Concen: 44.366 ng  
RT: 10.10 min Scan# 1363  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

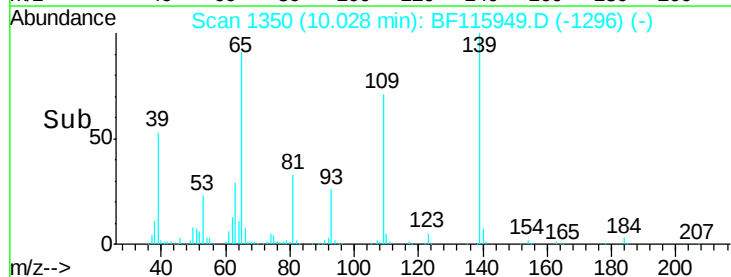
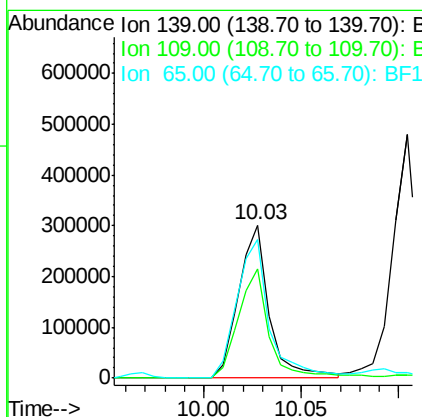
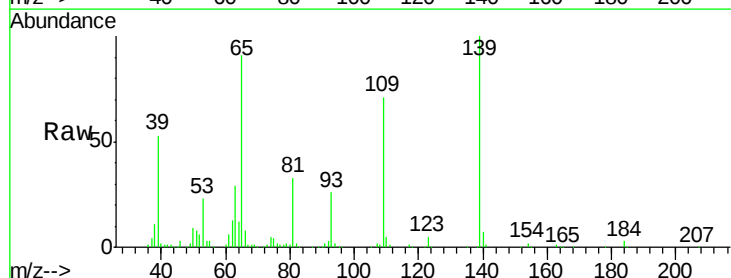
Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

Tot Ion:168 Resp: 1074942  
Ion Ratio Lower Upper  
168 100  
139 39.9 30.2 45.2  
169 13.8 10.8 16.2



#56  
4-Nitrophenol  
Concen: 88.505 ng  
RT: 10.03 min Scan# 1350  
Delta R.T. 0.02 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion:139 Resp: 328396  
Ion Ratio Lower Upper  
139 100  
109 71.4 52.0 92.0  
65 90.9 72.6 112.6

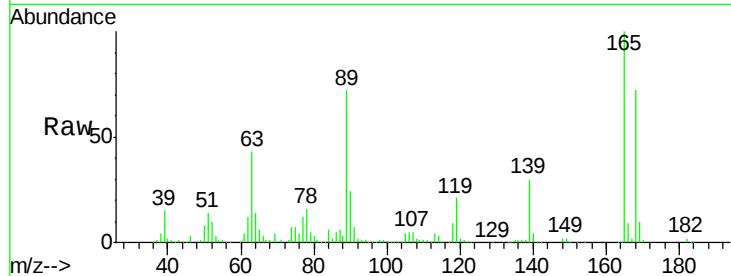




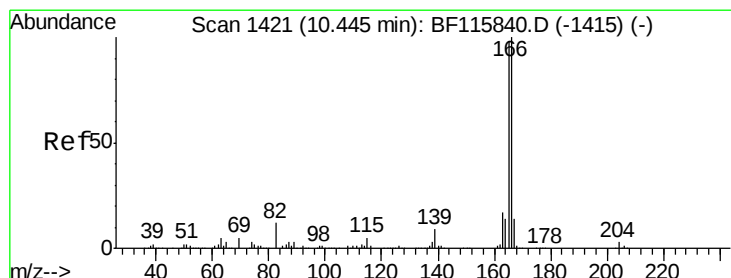
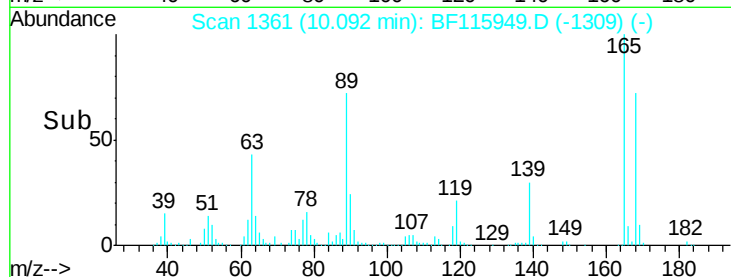
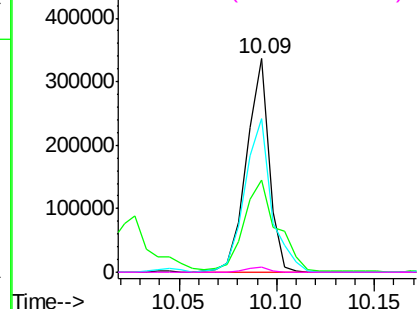
#57  
2,4-Dinitrotoluene  
Concen: 43.512 ng  
RT: 10.09 min Scan# 1361  
Delta R.T. 0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

Tot Ion:165 Resp: 271569  
Ion Ratio Lower Upper  
165 100  
63 43.4 33.2 49.8  
89 71.9 57.3 85.9  
182 2.5 2.1 3.1

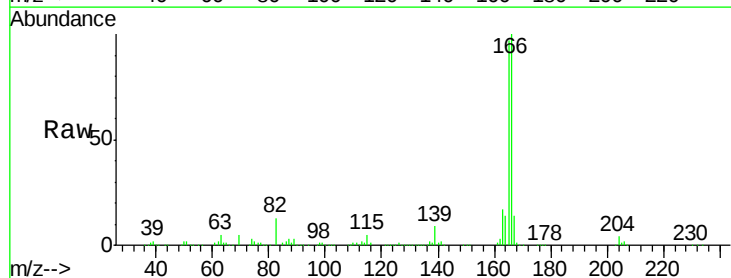


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

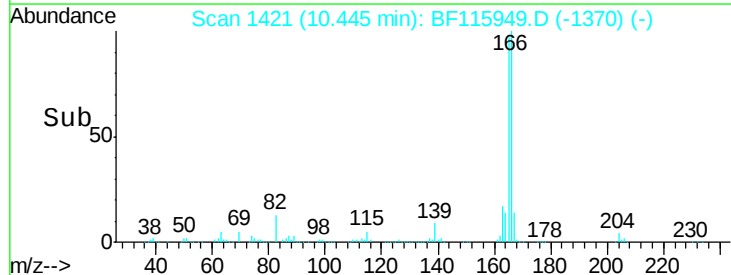
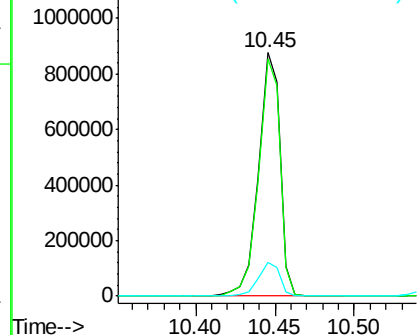


#58  
Fluorene  
Concen: 44.489 ng  
RT: 10.45 min Scan# 1421  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion:166 Resp: 829328  
Ion Ratio Lower Upper  
166 100  
165 97.2 78.6 118.0  
167 13.7 10.9 16.3



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#59

2,3,4,6-Tetrachlorophenol

Concen: 44.153 ng

RT: 10.23 min Scan# 1384

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

Tot Ion:232 Resp: 223845

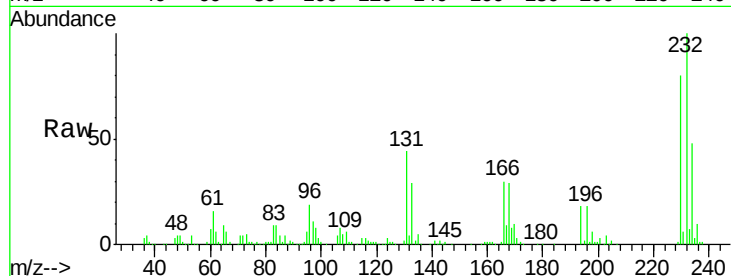
Ion Ratio Lower Upper

232 100

131 48.3 37.6 56.4

130 2.4 1.8 2.8

166 30.2 24.6 37.0

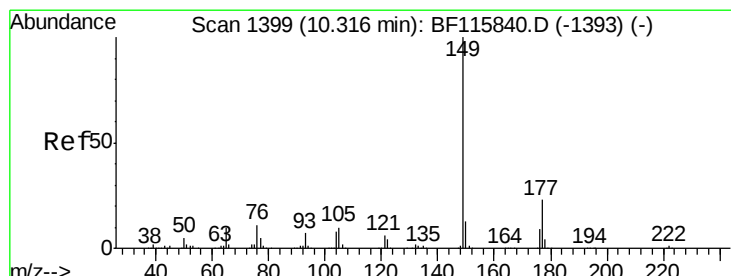
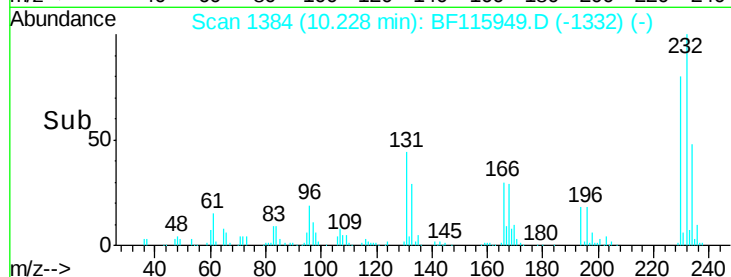
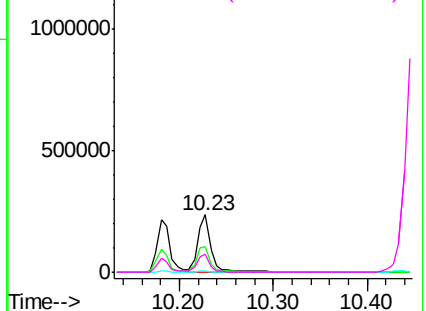


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#60

Diethylphthalate

Concen: 43.414 ng

RT: 10.32 min Scan# 1400

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

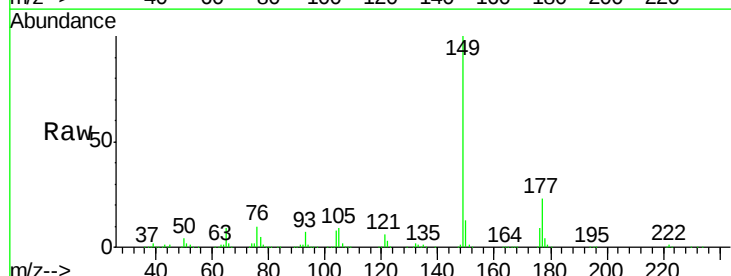
Tgt Ion:149 Resp: 874312

Ion Ratio Lower Upper

149 100

177 23.2 18.4 27.6

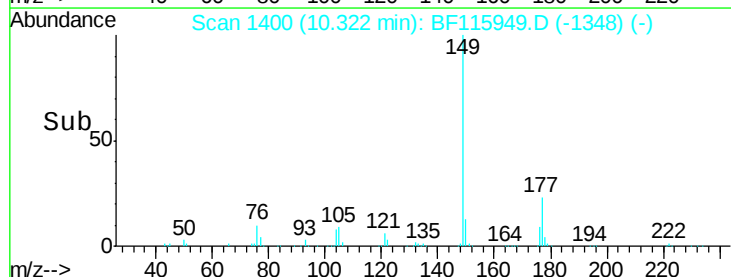
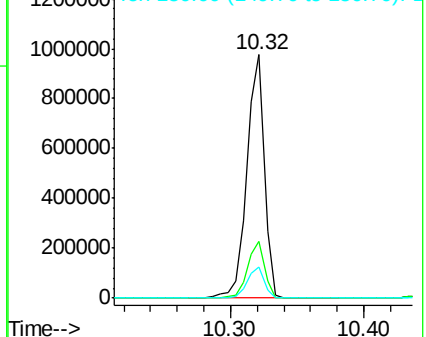
150 12.8 10.1 15.1

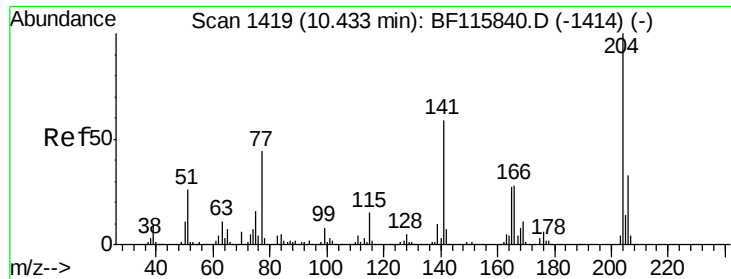


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

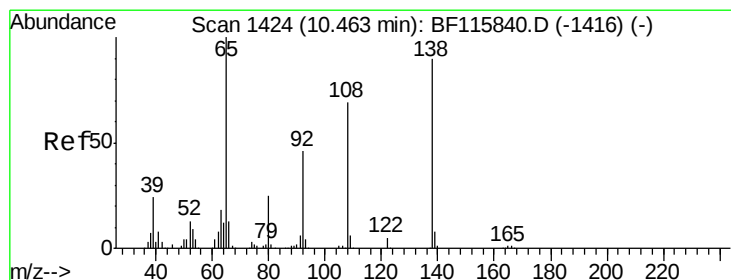
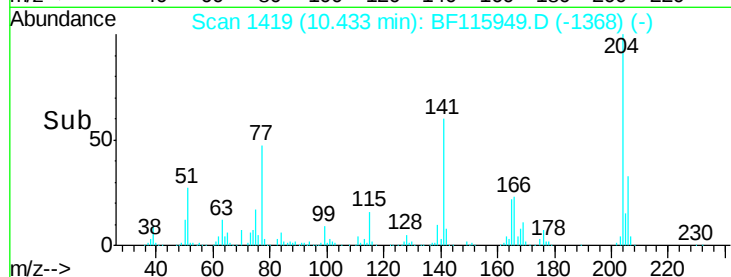
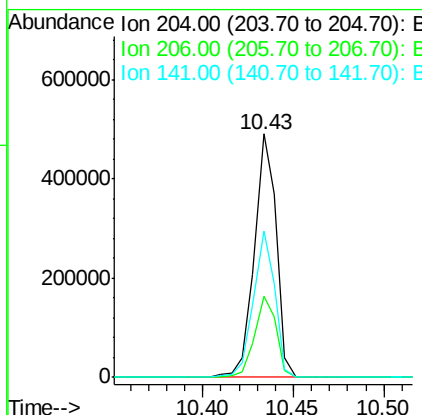
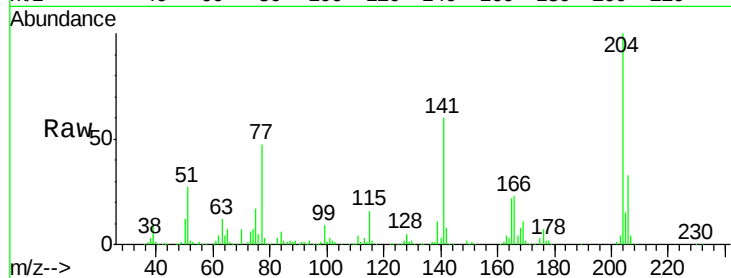




#61  
 4-Chlorophenyl-phenylether  
 Concen: 43.535 ng  
 RT: 10.43 min Scan# 1419  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

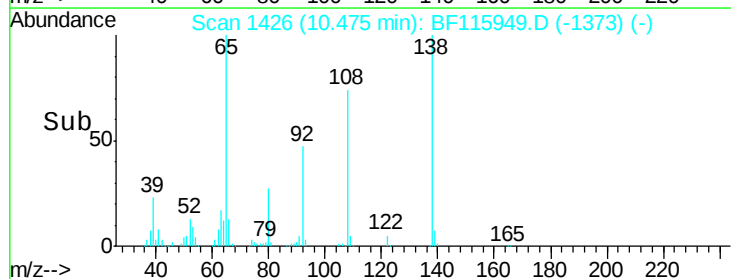
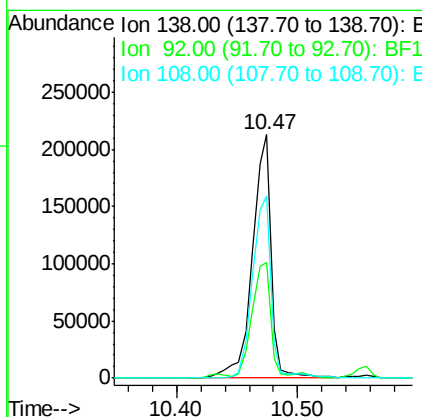
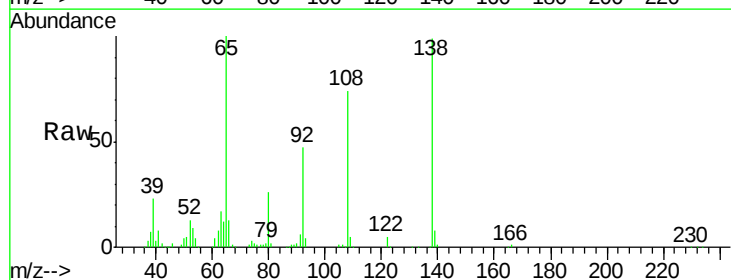
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

Tot Ion:204 Resp: 411012  
 Ion Ratio Lower Upper  
 204 100  
 206 33.1 26.4 39.6  
 141 60.3 47.0 70.4



#62  
 4-Nitroaniline  
 Concen: 38.869 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. 0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion:138 Resp: 232662  
 Ion Ratio Lower Upper  
 138 100  
 92 47.6 31.0 71.0  
 108 74.8 56.7 96.7





#63

Azobenzene

Concen: 44.361 ng

RT: 10.60 min Scan# 1447

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

Tot Ion: 77 Resp: 918896

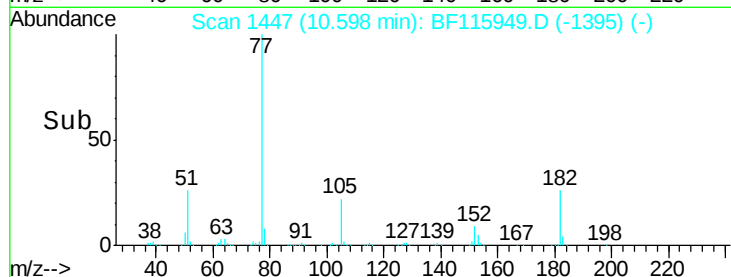
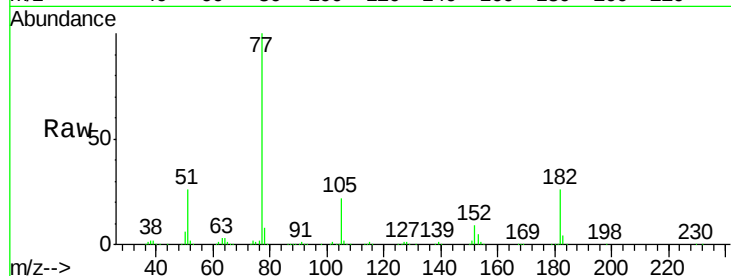
Ion Ratio Lower Upper

77 100

182 26.0 2.6 42.6

105 22.1 1.6 41.6

51 26.2 7.4 47.4

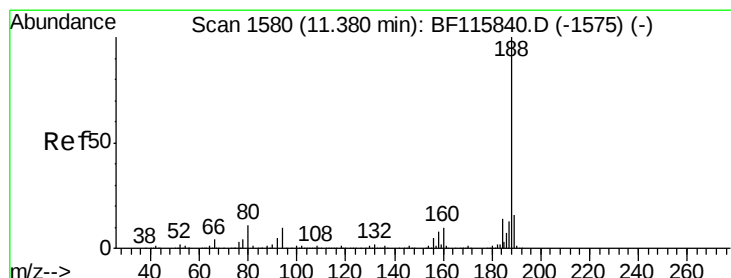
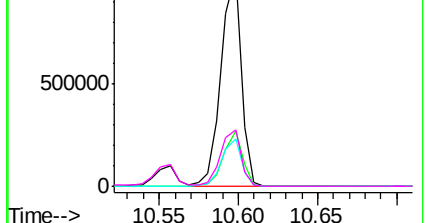


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1581

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

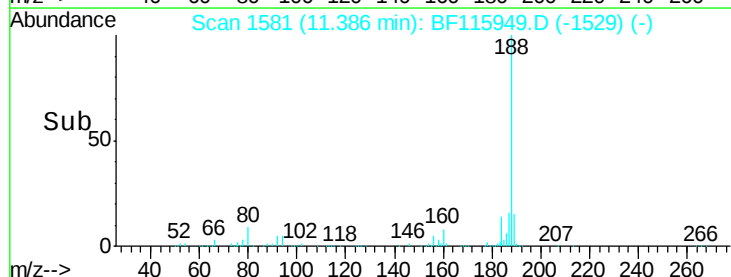
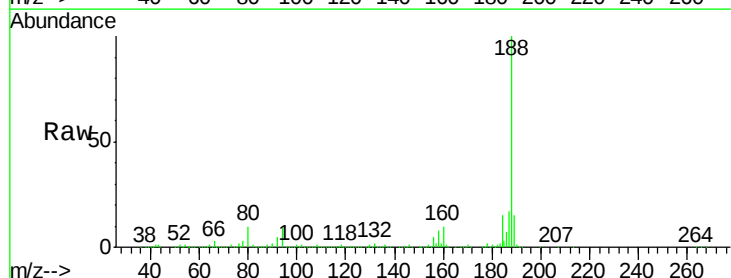
Tgt Ion: 188 Resp: 540709

Ion Ratio Lower Upper

188 100

94 9.2 8.0 12.0

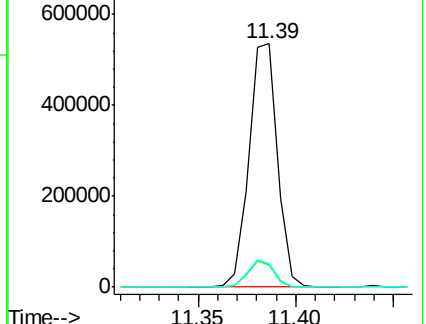
80 9.7 8.6 12.8



Abundance Ion 188.00 (187.70 to 188.70): BF1

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: 46.050 ng

RT: 10.50 min Scan# 1431

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

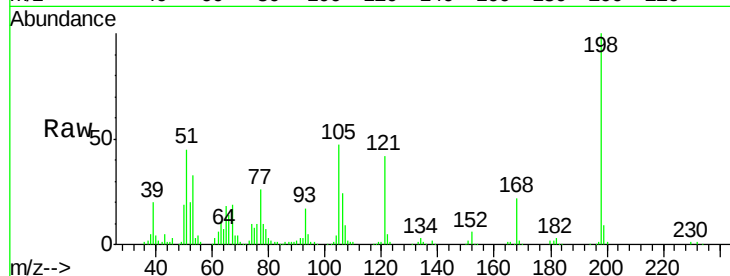
Tot Ion:198 Resp: 131951

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 198 | 100   |       |       |
| 51  | 44.5  | 21.1  | 61.1  |
| 105 | 46.8  | 24.5  | 64.5  |

198 100

51 44.5 21.1 61.1

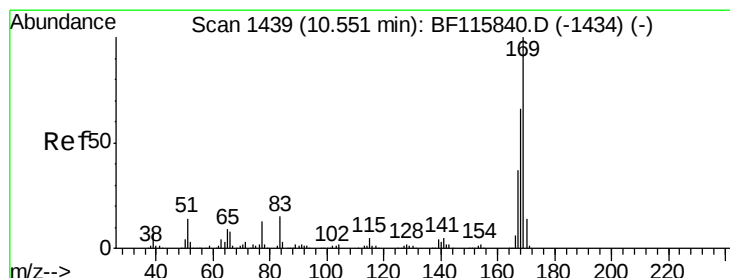
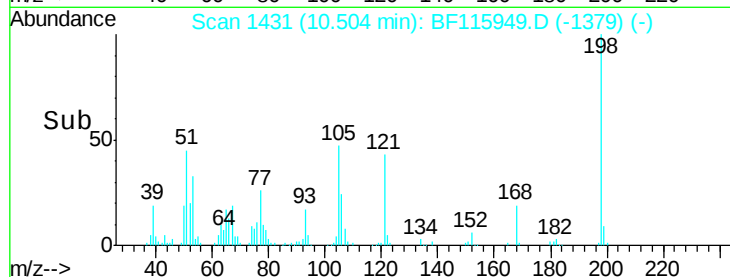
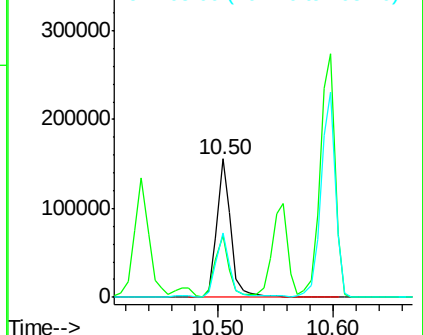
105 46.8 24.5 64.5



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



#66

n-Nitrosodiphenylamine

Concen: 45.270 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

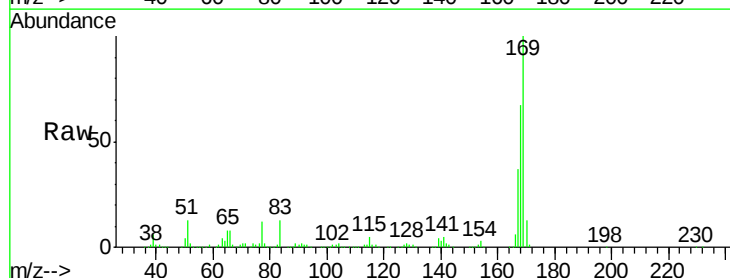
Tgt Ion:169 Resp: 736758

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 169 | 100   |       |       |
| 168 | 67.1  | 53.0  | 79.6  |
| 167 | 37.1  | 29.9  | 44.9  |

169 100

168 67.1 53.0 79.6

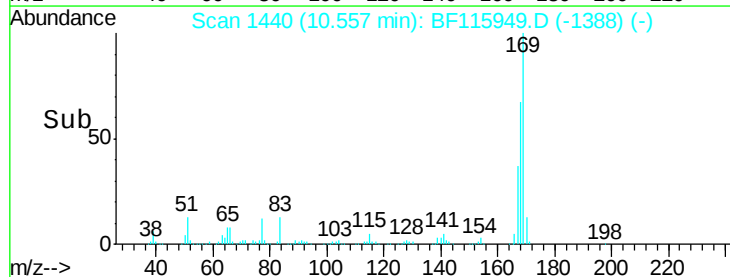
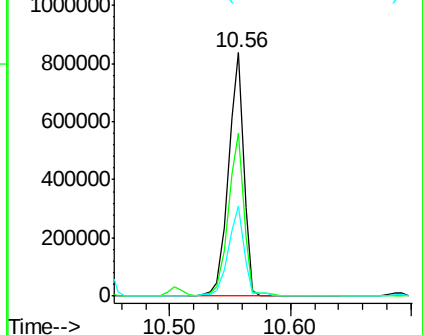
167 37.1 29.9 44.9

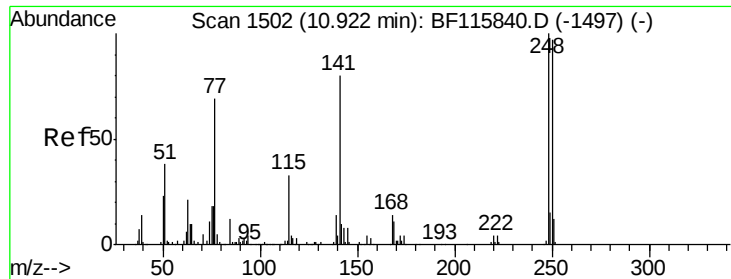


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

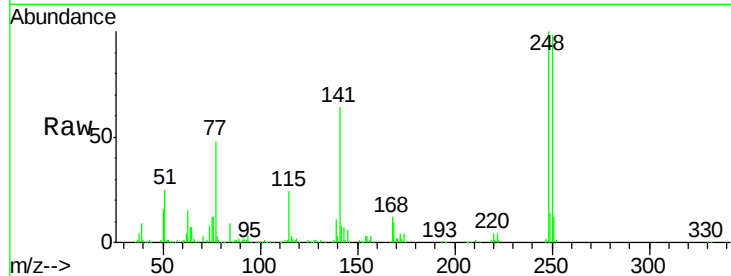




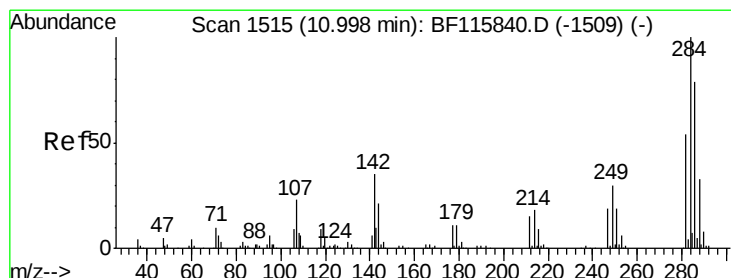
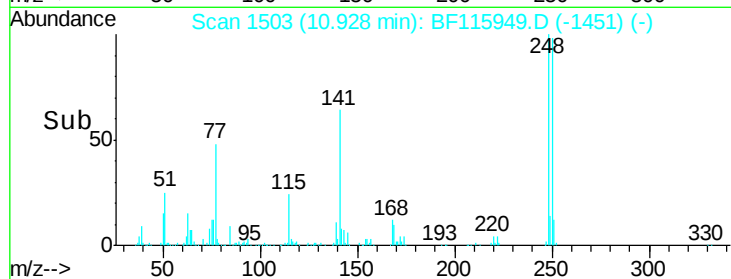
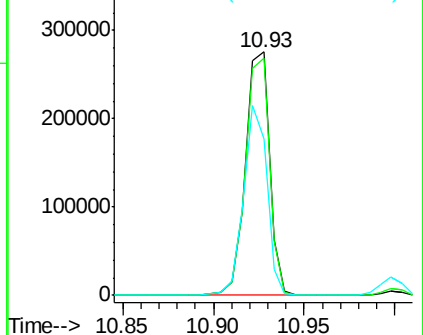
#67  
4-Bromophenyl-phenylether  
Concen: 44.164 ng  
RT: 10.93 min Scan# 1503  
Delta R.T. 0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

Tot Ion:248 Resp: 255631  
Ion Ratio Lower Upper  
248 100  
250 97.6 77.8 116.6  
141 64.5 64.3 96.5

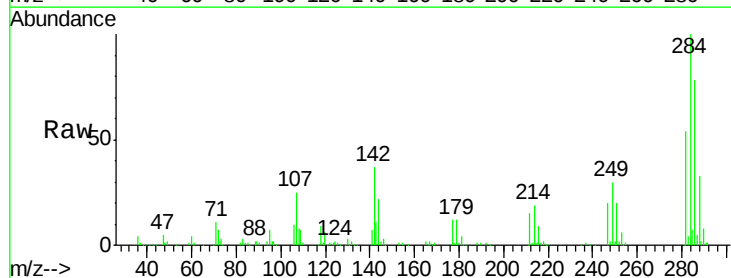


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

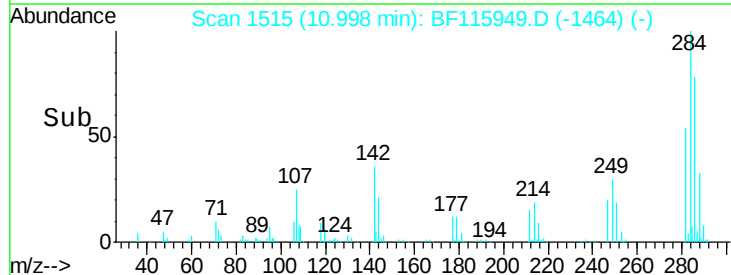
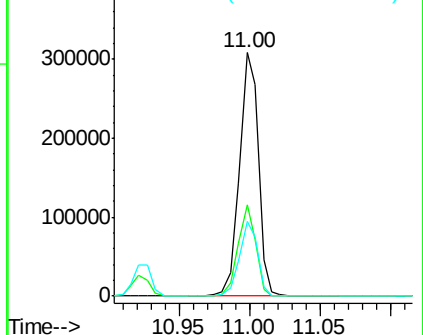


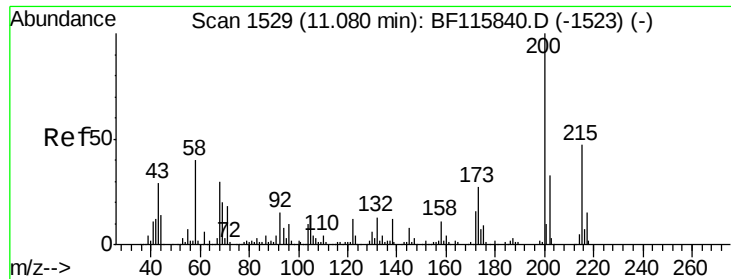
#68  
Hexachlorobenzene  
Concen: 42.772 ng  
RT: 11.00 min Scan# 1515  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion:284 Resp: 286285  
Ion Ratio Lower Upper  
284 100  
142 37.4 28.2 42.2  
249 30.5 24.0 36.0



Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

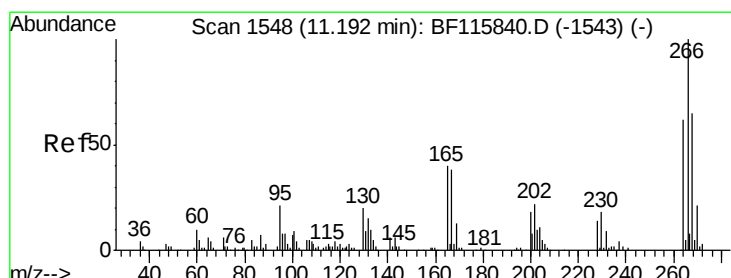
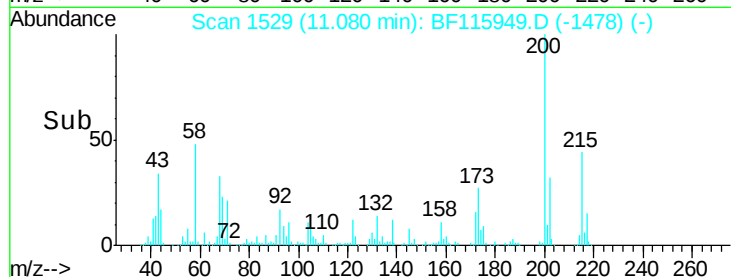
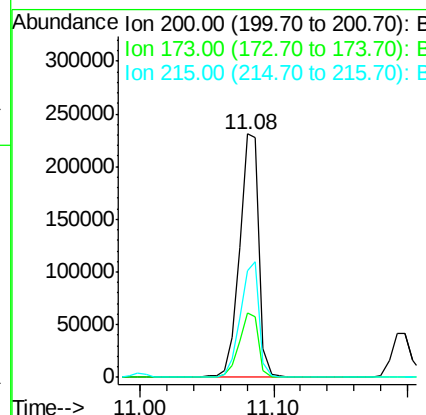
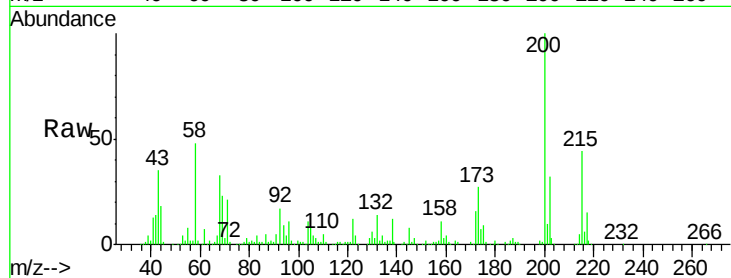




#69  
 Atrazine  
 Concen: 43.735 ng  
 RT: 11.08 min Scan# 1529  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

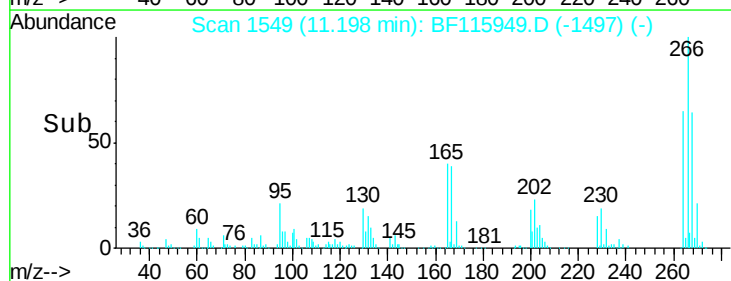
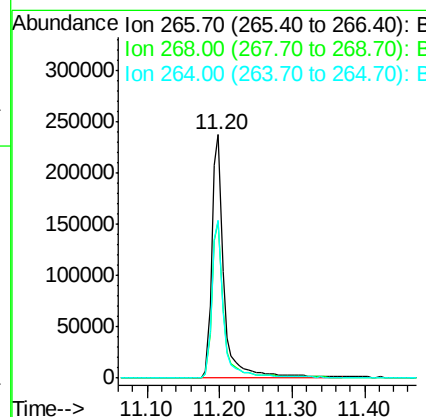
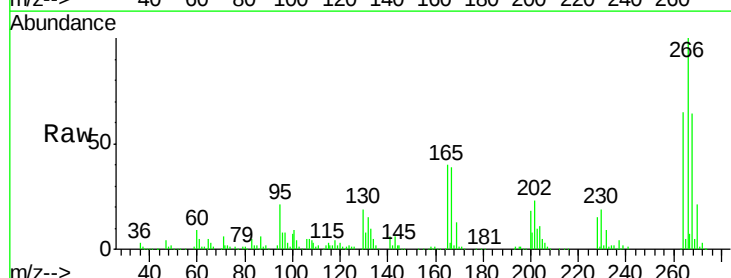
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

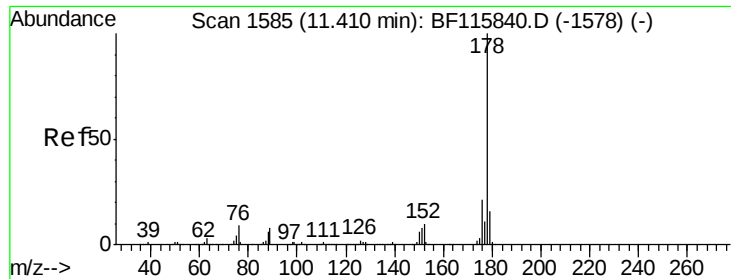
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 26.7  | 7.3   | 47.3  |
| 215     | 44.0  | 26.9  | 66.9  |



#70  
 Pentachlorophenol  
 Concen: 86.354 ng  
 RT: 11.20 min Scan# 1549  
 Delta R.T. 0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 64.3  | 51.6  | 77.4  |
| 264     | 64.9  | 49.4  | 74.0  |





#71

Phenanthrene

Concen: 43.893 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

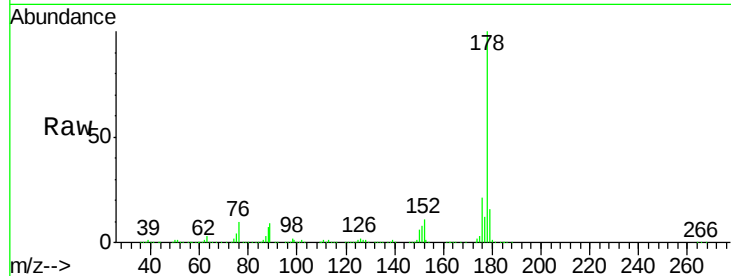
Tot Ion:178 Resp: 1213304

Ion Ratio Lower Upper

178 100

176 20.9 16.5 24.7

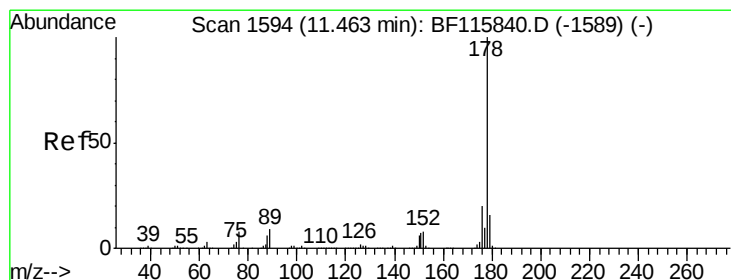
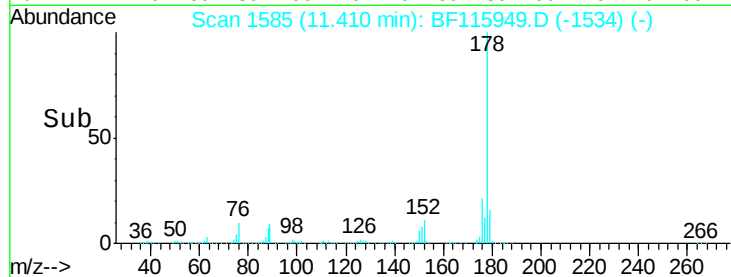
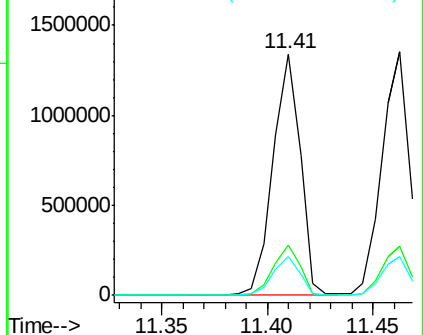
179 16.2 12.6 18.8



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



#72

Anthracene

Concen: 44.646 ng

RT: 11.46 min Scan# 1594

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

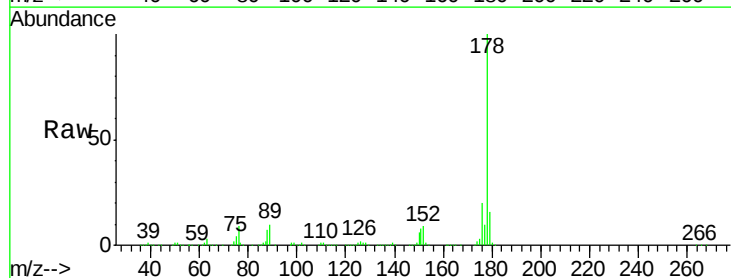
Tgt Ion:178 Resp: 1248990

Ion Ratio Lower Upper

178 100

176 20.2 15.7 23.5

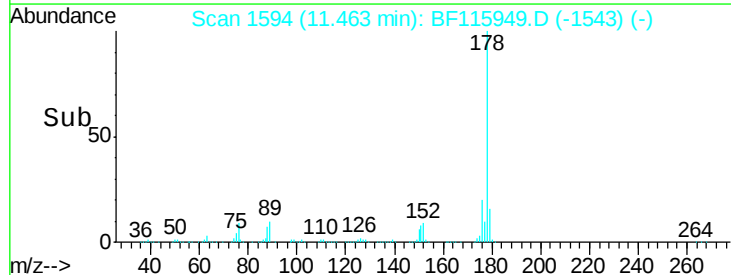
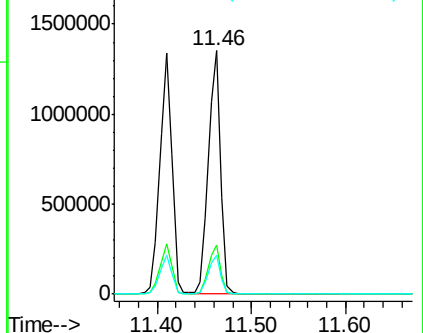
179 15.9 12.4 18.6

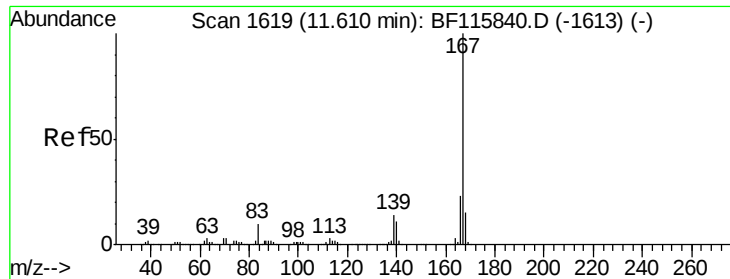


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

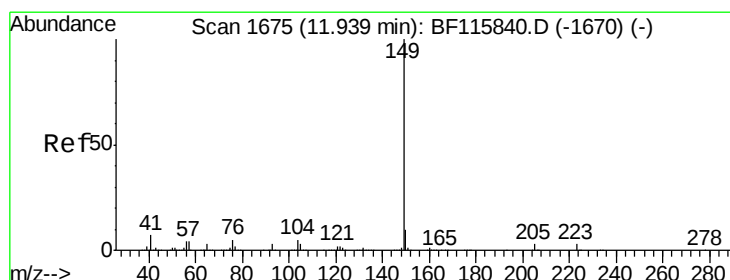
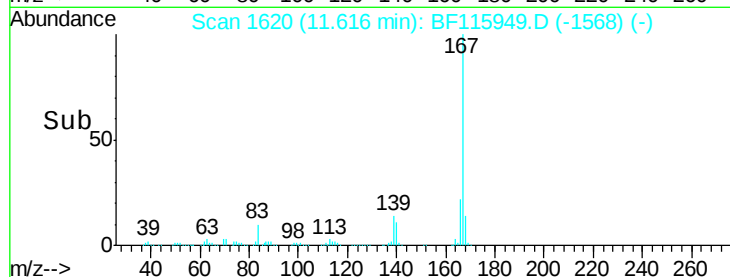
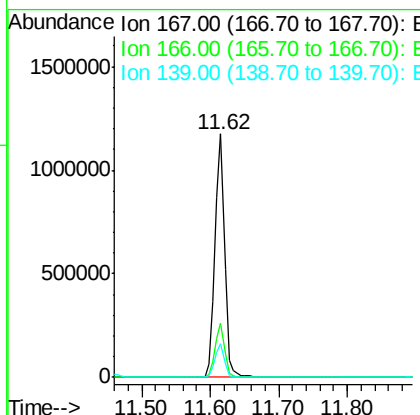
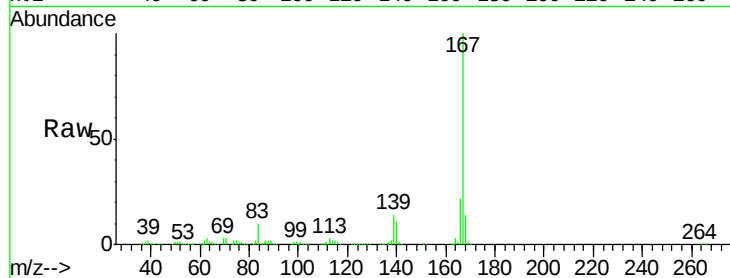




#73  
 Carbazole  
 Concen: 44.437 ng  
 RT: 11.62 min Scan# 1620  
 Delta R.T. 0.01 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

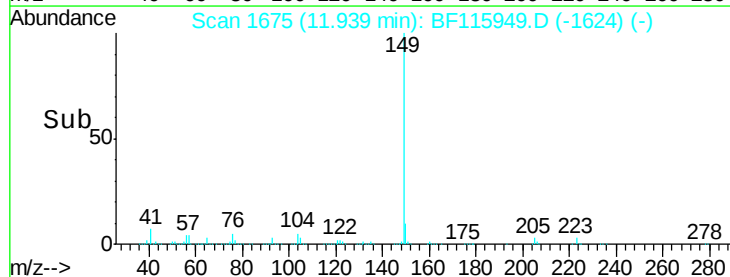
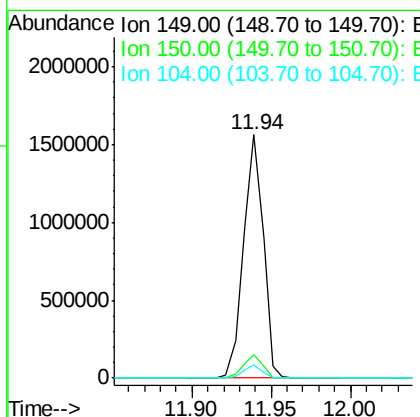
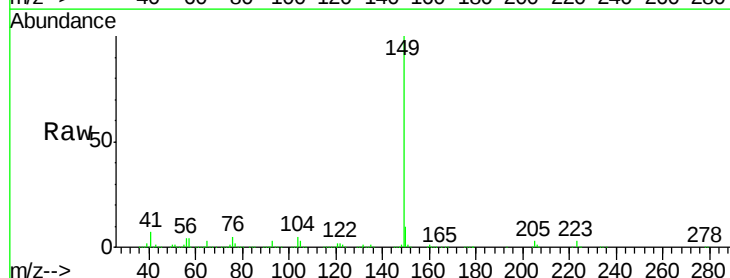
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

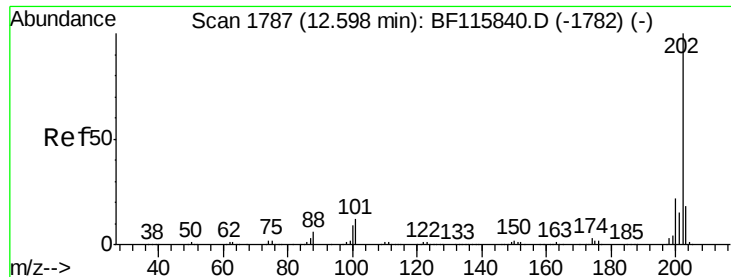
Tot Ion:167 Resp: 1127833  
 Ion Ratio Lower Upper  
 167 100  
 166 22.4 18.0 27.0  
 139 13.8 11.4 17.2



#74  
 Di-n-butylphthalate  
 Concen: 45.254 ng  
 RT: 11.94 min Scan# 1675  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion:149 Resp: 1339844  
 Ion Ratio Lower Upper  
 149 100  
 150 9.7 7.7 11.5  
 104 5.4 4.3 6.5

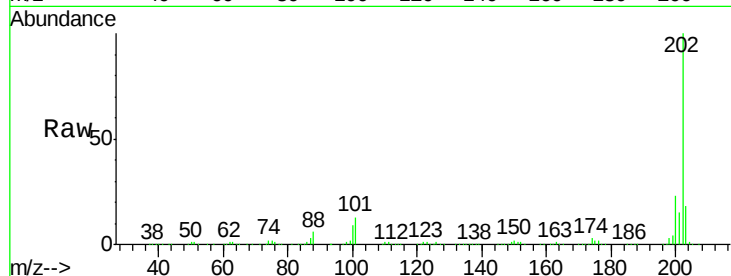




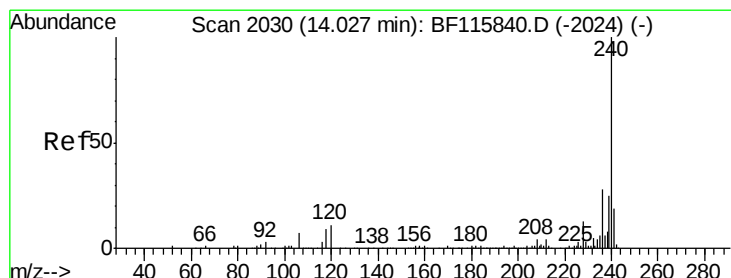
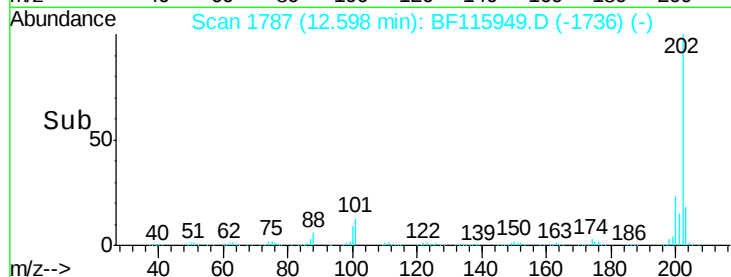
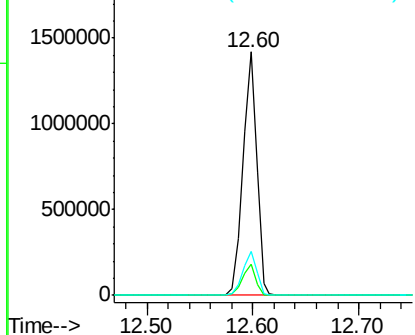
#75  
 Fluoranthene  
 Concen: 43.576 ng  
 RT: 12.60 min Scan# 1787  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121932BS

Tot Ion:202 Resp: 1261026  
 Ion Ratio Lower Upper  
 202 100  
 101 12.6 0.0 31.5  
 203 18.1 0.0 37.9

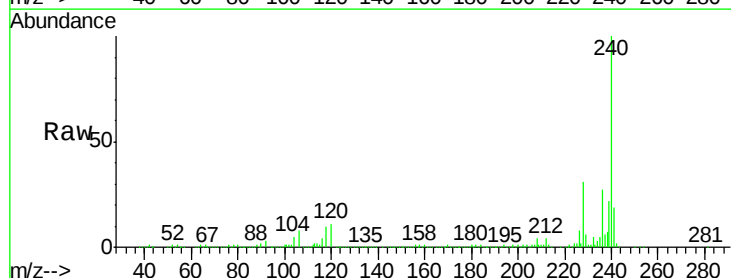


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

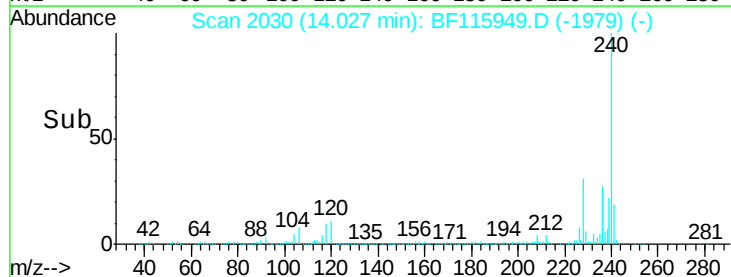
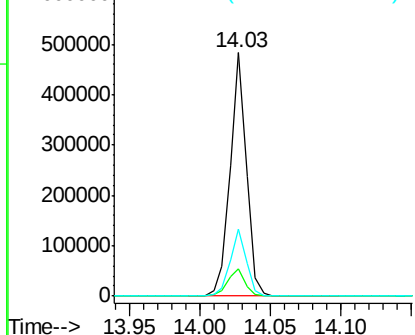


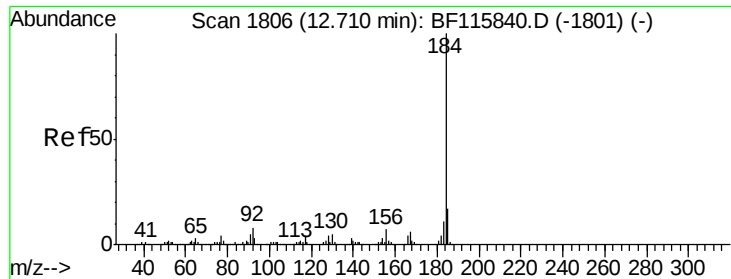
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. 0.00 min  
 Lab File: BF115949.D  
 Acq: 2 Aug 2019 16:29

Tgt Ion:240 Resp: 388743  
 Ion Ratio Lower Upper  
 240 100  
 120 11.3 8.5 12.7  
 236 27.5 22.2 33.2



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

Benzidine

Concen: 37.075 ng

RT: 12.72 min Scan# 1807

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

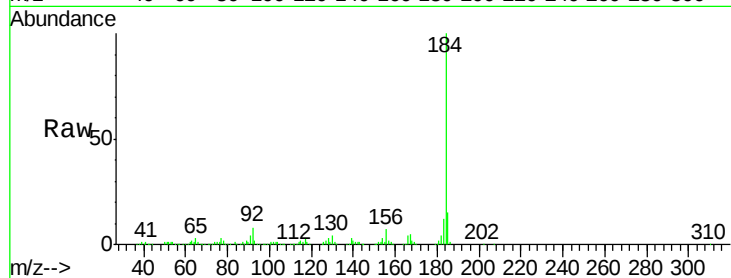
Tot Ion:184 Resp: 486925

Ion Ratio Lower Upper

184 100

185 14.7 13.4 20.2

183 11.6 9.1 13.7



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

12.72

600000

500000

400000

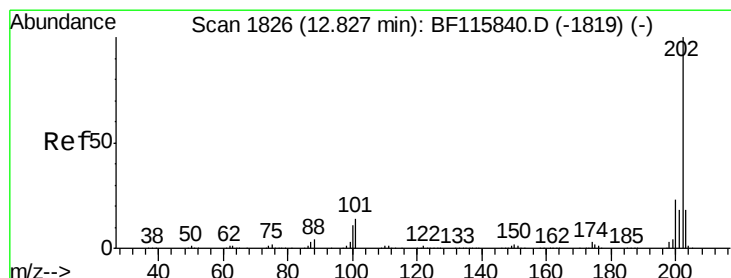
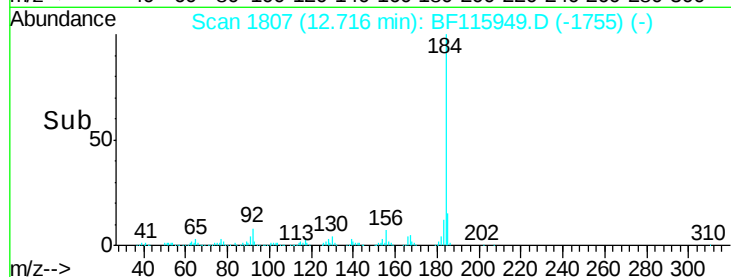
300000

200000

100000

0

Time--> 12.60 12.70 12.80



#78

Pyrene

Concen: 43.767 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

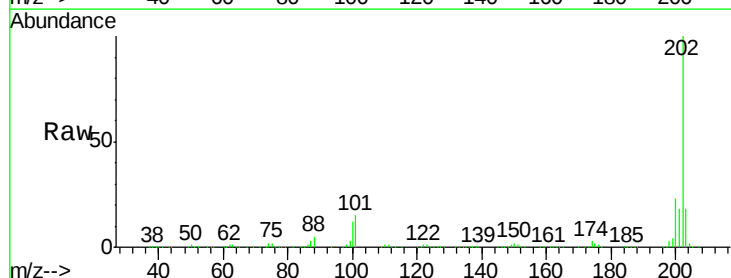
Tgt Ion:202 Resp: 1282544

Ion Ratio Lower Upper

202 100

200 22.8 18.2 27.2

203 18.2 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

12.83

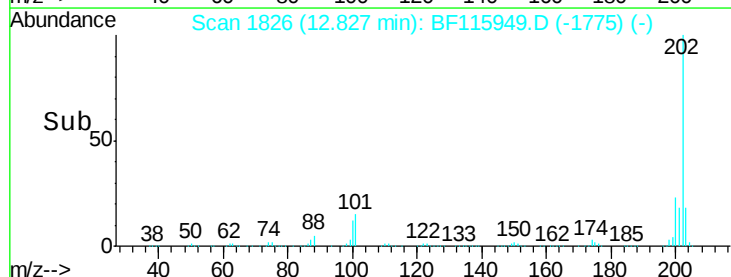
1500000

1000000

500000

0

Time--> 12.80 12.90





#79

Terphenyl-d14

Concen: 82.965 ng

RT: 12.97 min Scan# 1850

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

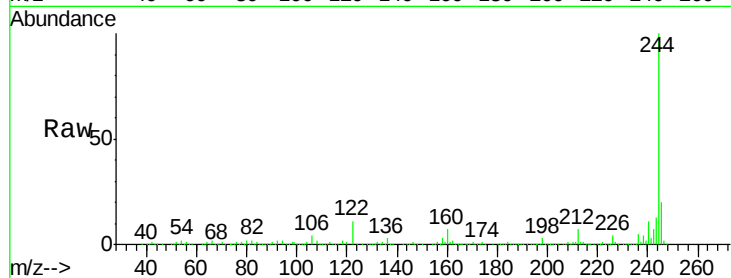
Tot Ion:244 Resp: 1530596

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.9   | 5.6   | 8.4   |
| 122 | 10.9  | 8.6   | 13.0  |

244 100

212 6.9 5.6 8.4

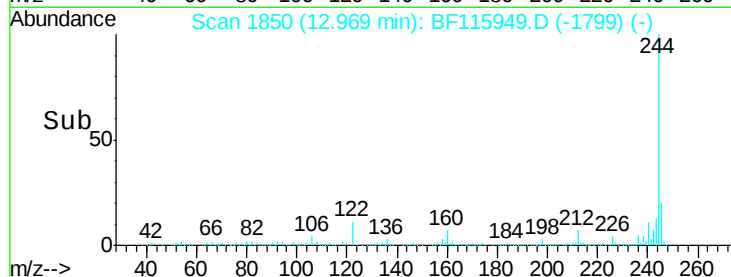
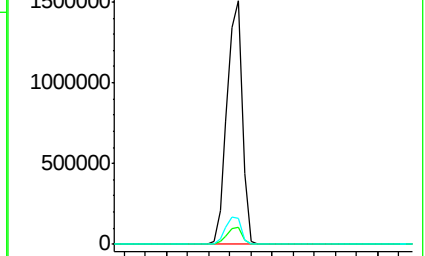
122 10.9 8.6 13.0



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



#80

Butylbenzylphthalate

Concen: 45.336 ng

RT: 13.44 min Scan# 1930

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

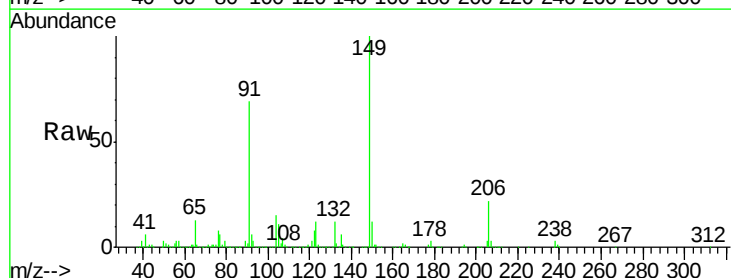
Tgt Ion:149 Resp: 561968

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 91  | 68.8  | 57.0  | 85.6  |
| 206 | 21.9  | 16.9  | 25.3  |

149 100

91 68.8 57.0 85.6

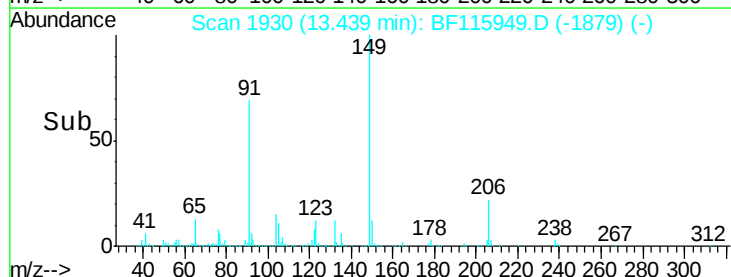
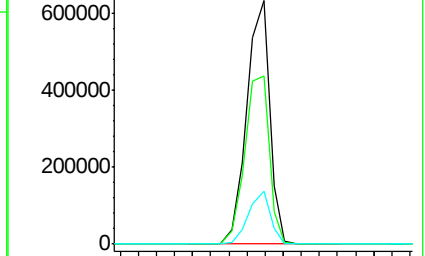
206 21.9 16.9 25.3

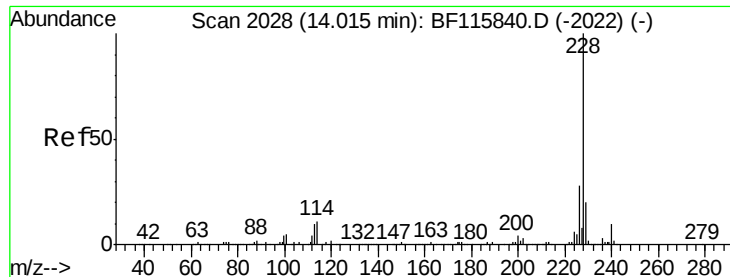


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 43.712 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

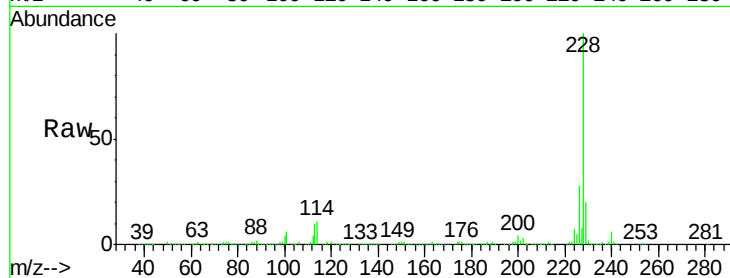
Tot Ion:228 Resp: 1086103

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.3  | 22.5  | 33.7  |
| 229 | 20.3  | 16.1  | 24.1  |

228 100

226 28.3 22.5 33.7

229 20.3 16.1 24.1

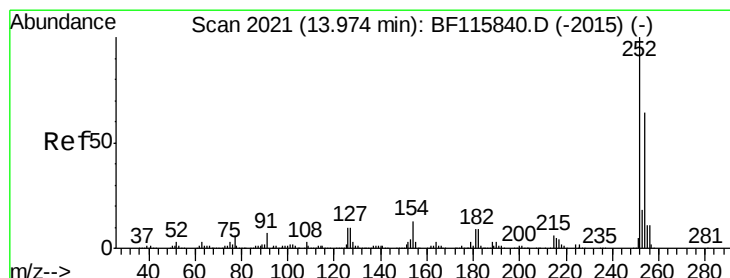
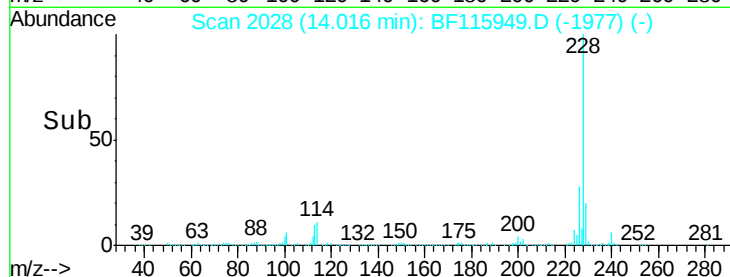
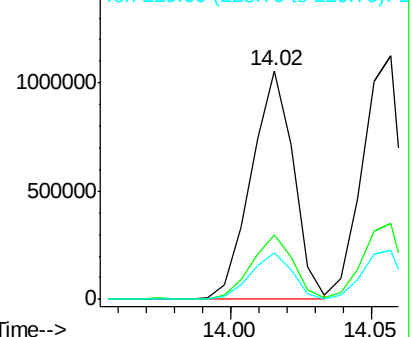


Abundance

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



#82

3,3'-Dichlorobenzidine

Concen: 38.888 ng

RT: 13.97 min Scan# 2021

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

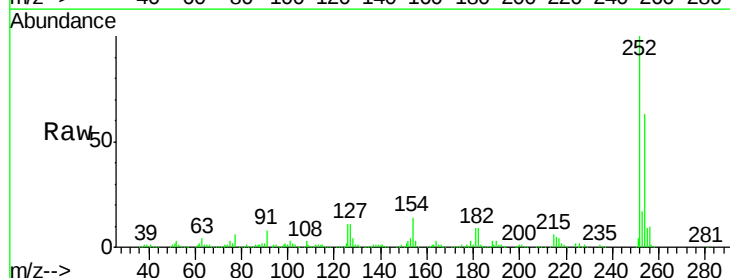
Tgt Ion:252 Resp: 335695

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 254 | 63.0  | 51.2  | 76.8  |
| 126 | 11.3  | 8.1   | 12.1  |

252 100

254 63.0 51.2 76.8

126 11.3 8.1 12.1

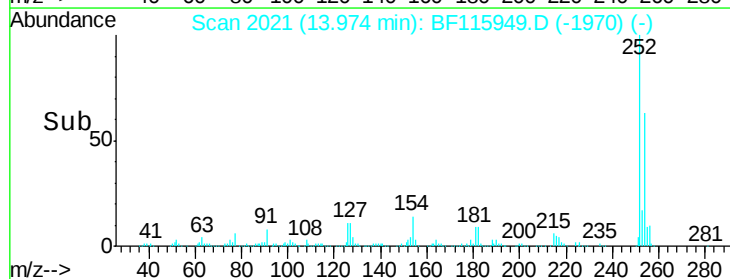
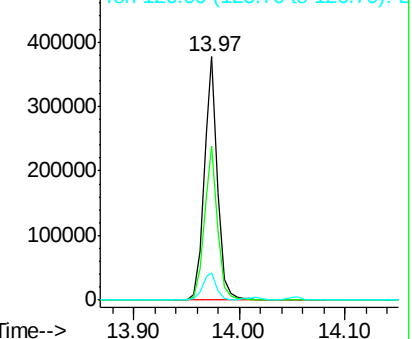


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#83

Chrysene

Concen: 44.086 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

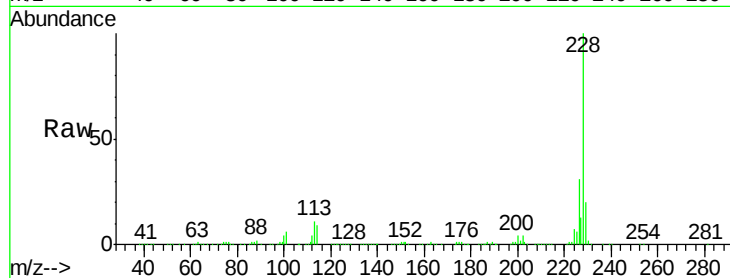
Tot Ion:228 Resp: 1063474

Ion Ratio Lower Upper

228 100

226 31.2 24.8 37.2

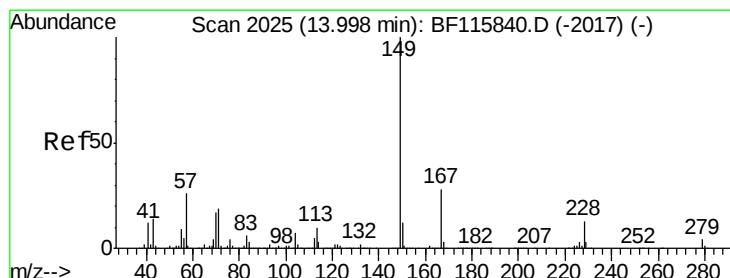
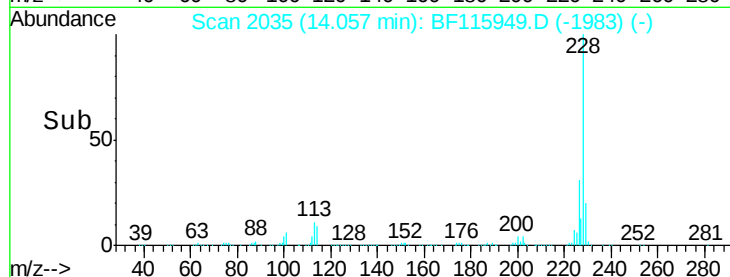
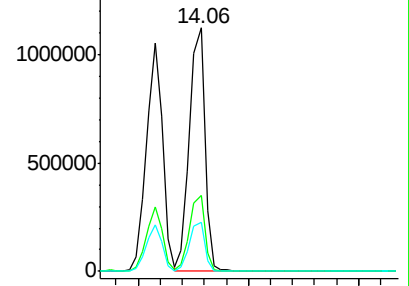
229 20.1 16.4 24.6



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 47.263 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

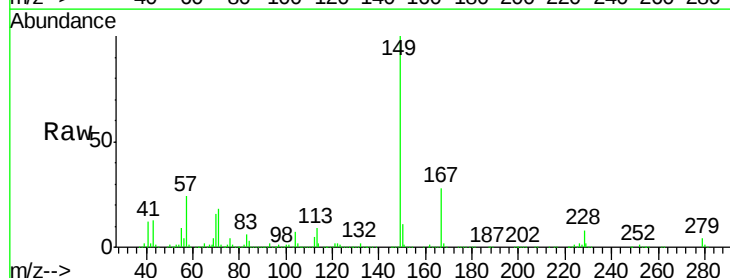
Tgt Ion:149 Resp: 761326

Ion Ratio Lower Upper

149 100

167 27.7 22.4 33.6

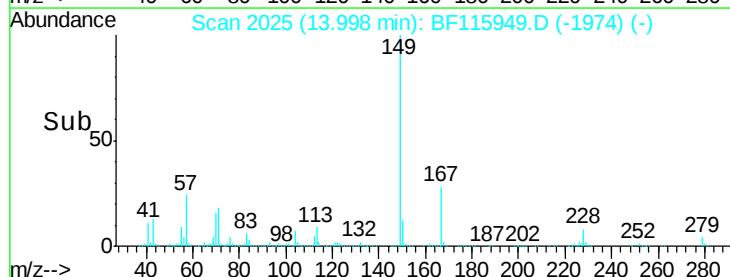
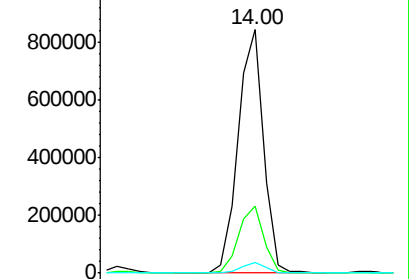
279 4.3 3.3 4.9

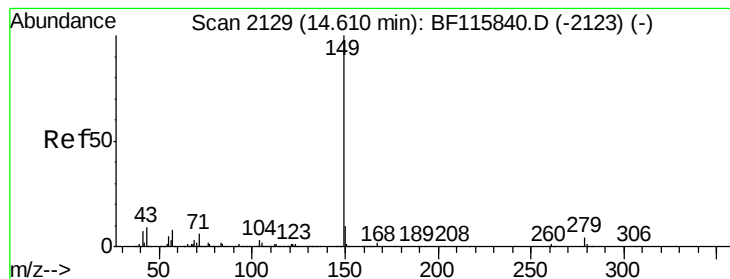


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 48.227 ng

RT: 14.61 min Scan# 2129

Delta R.T. 0.00 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

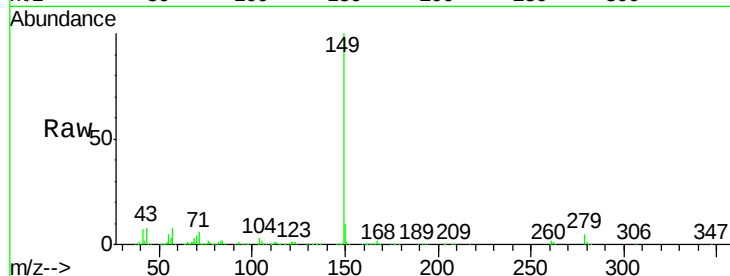
Tot Ion:149 Resp: 1233912

Ion Ratio Lower Upper

149 100

167 2.4 1.2 1.8#

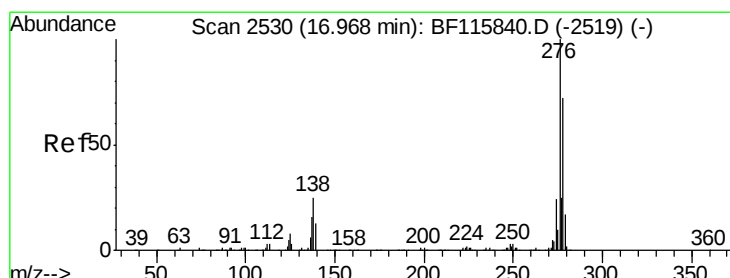
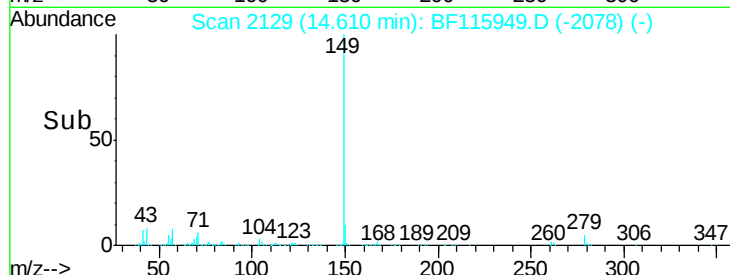
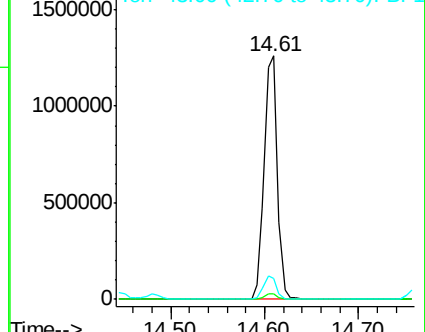
43 9.4 7.4 11.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#86

Indeno(1,2,3-cd)pyrene

Concen: 41.518 ng

RT: 16.99 min Scan# 2533

Delta R.T. 0.02 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

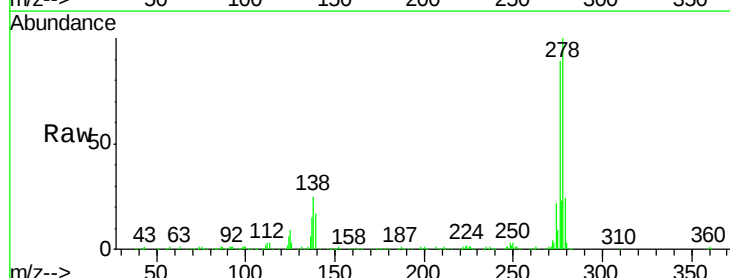
Tgt Ion:276 Resp: 841171

Ion Ratio Lower Upper

276 100

138 25.8 19.6 29.4

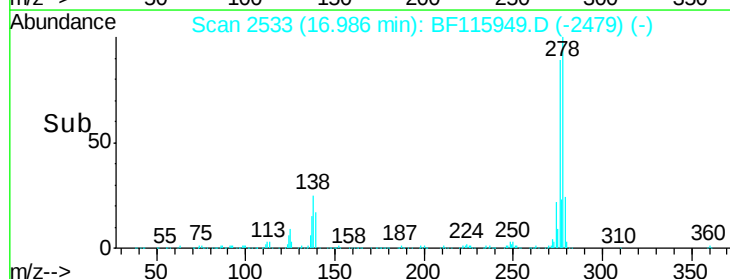
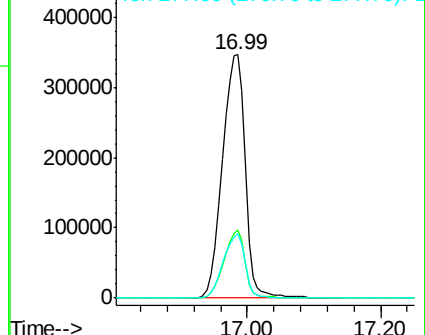
277 25.3 20.1 30.1

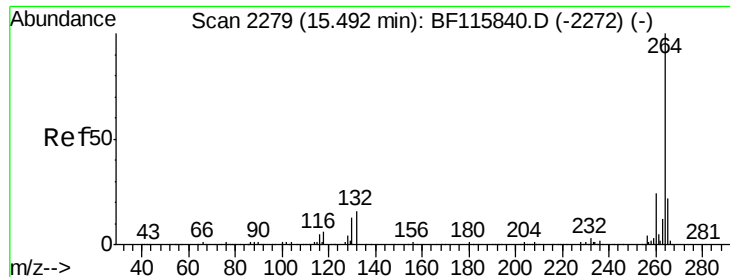


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



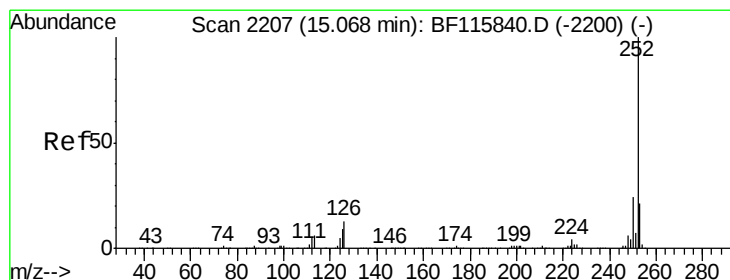
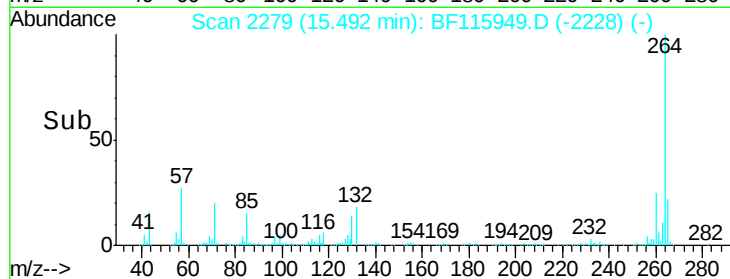
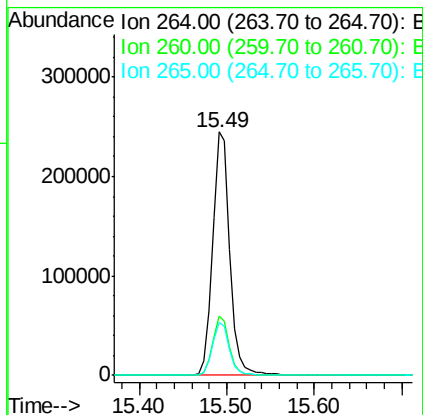
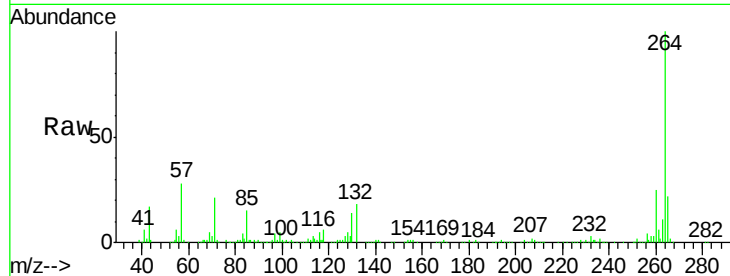


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.49 min Scan# 2279  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

Tot Ion:264 Resp: 332465  

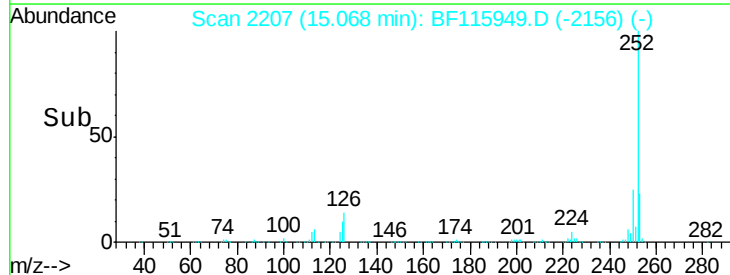
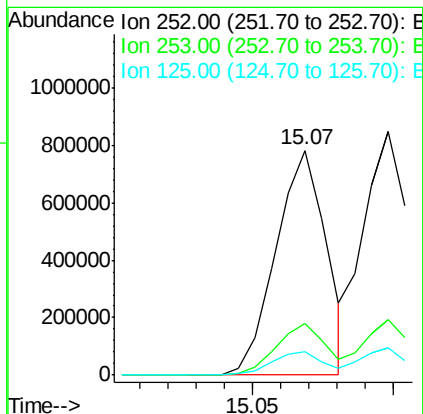
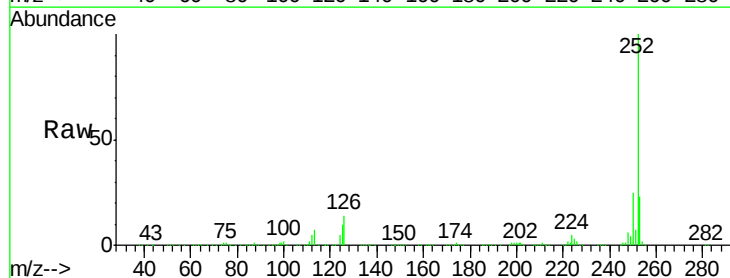
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.5  | 19.4  | 29.2  |
| 265 | 21.8  | 17.5  | 26.3  |



#88  
Benzo(b)fluoranthene  
Concen: 50.250 ng  
RT: 15.07 min Scan# 2207  
Delta R.T. 0.00 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion:252 Resp: 965991  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.7  | 17.2  | 25.8  |
| 125 | 10.4  | 7.4   | 11.0  |

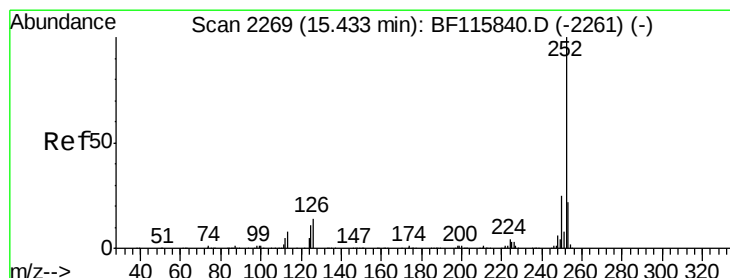
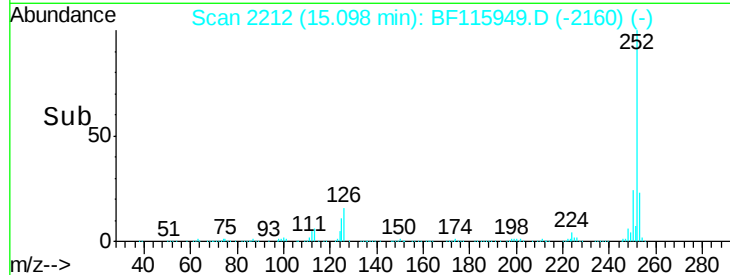
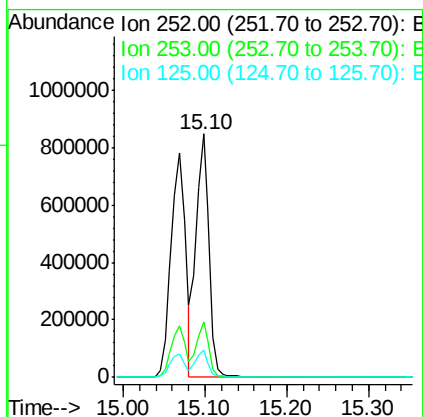
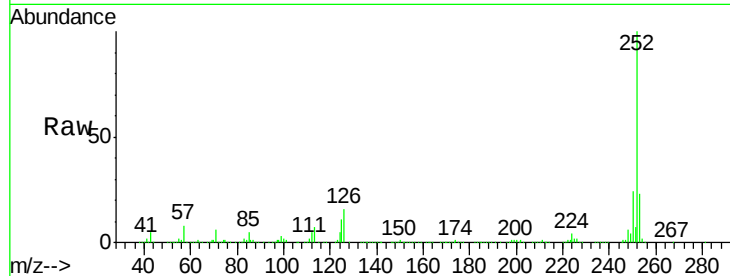




#89  
Benzo(k)fluoranthene  
Concen: 50.247 ng  
RT: 15.10 min Scan# 2212  
Delta R.T. 0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

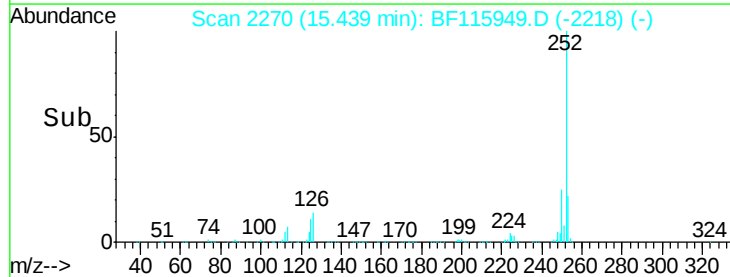
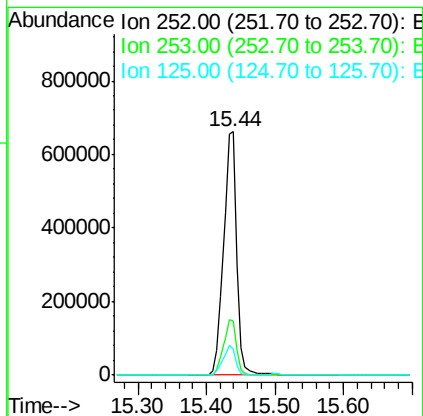
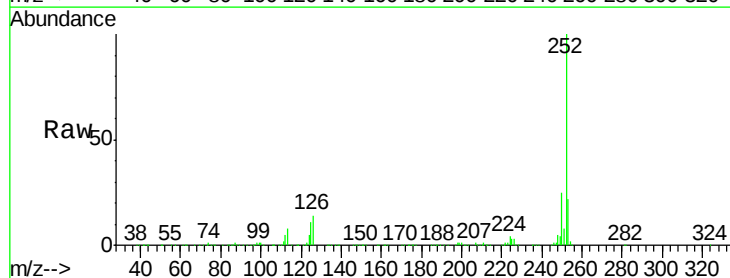
Instrument :  
BNA\_F  
ClientSampleId :  
PB121932BS

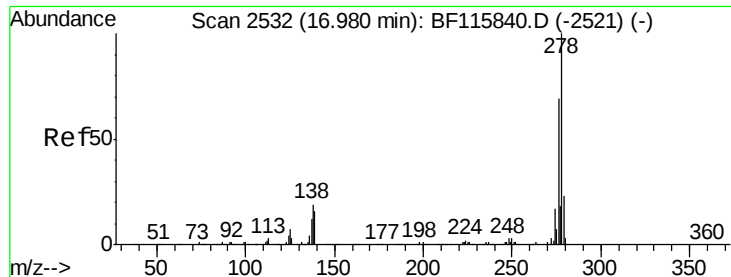
Tot Ion:252 Resp: 940821  
Ion Ratio Lower Upper  
252 100  
253 22.6 18.2 27.4  
125 11.0 8.9 13.3



#90  
Benzo(a)pyrene  
Concen: 51.576 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.01 min  
Lab File: BF115949.D  
Acq: 2 Aug 2019 16:29

Tgt Ion:252 Resp: 886293  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.8 26.6  
125 10.8 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 48.055 ng

RT: 16.99 min Scan# 2534

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

Instrument :

BNA\_F

ClientSampleId :

PB121932BS

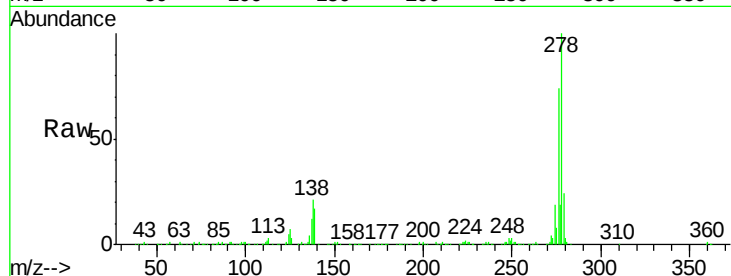
Tot Ion:278 Resp: 714808

Ion Ratio Lower Upper

278 100

139 16.5 12.6 19.0

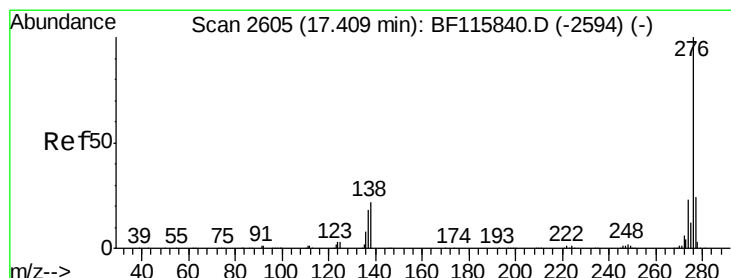
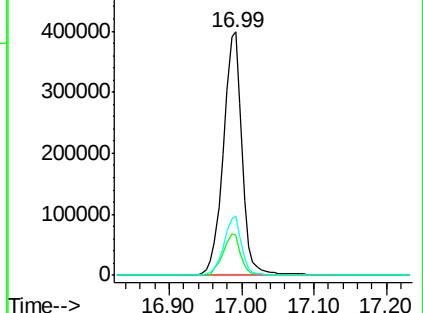
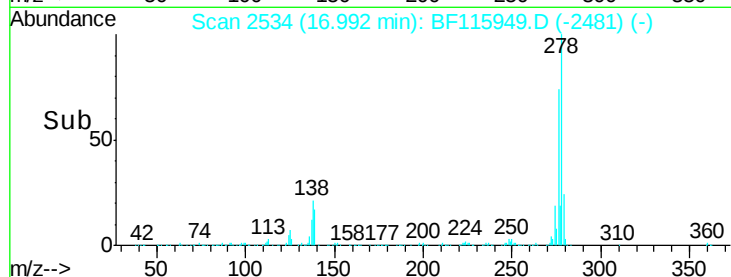
279 24.1 18.8 28.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 46.859 ng

RT: 17.42 min Scan# 2607

Delta R.T. 0.01 min

Lab File: BF115949.D

Acq: 2 Aug 2019 16:29

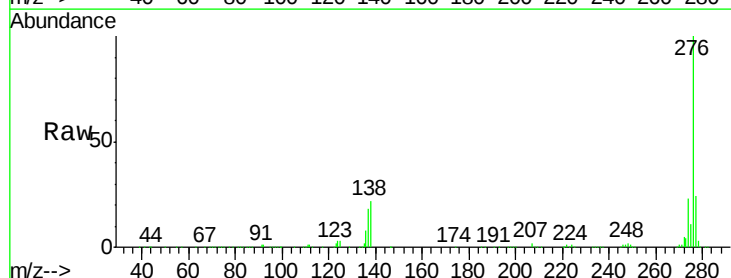
Tgt Ion:276 Resp: 684548

Ion Ratio Lower Upper

276 100

277 23.9 19.5 29.3

138 22.1 17.8 26.8



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

