

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN013020\  
 Data File : BN009507.D  
 Acq On : 31 Jan 2020 12:41  
 Operator : CG/JU  
 Sample : L1271-02MS  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Jan 31 22:18:28 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN012220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jan 22 15:13:20 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.45  | 152  | 161414   | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.22 | 136  | 682841   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.09 | 164  | 505313   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.85 | 188  | 837338   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.05 | 240  | 715179   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.16 | 264  | 794705   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.09  | 96  | 29540  | 7.57  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.65  | 99  | 276450 | 19.31 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.81  | 67  | 198610 | 19.55 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 6.99  | 132 | 221276 | 21.17 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 177944 | 15.62 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.60  | 128 | 115340 | 23.22 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.31  | 143 | 124817 | 23.96 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.85  | 165 | 214478 | 20.77 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.35 | 131 | 238712 | 19.14 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.52 | 166 | 675048 | 18.05 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.79 | 160 | 794298 | 17.89 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.32 | 143 | 122894 | 17.66 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.09 | 176 | 614492 | 18.72 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.25 | 200 | 88538  | 17.46 | ng/ul | 0.02  |
| 70) Anthracene-d10             | 16.95 | 188 | 861059 | 22.23 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.25 | 212 | 948016 | 24.64 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.03 | 264 | 950689 | 23.70 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |          |         | Ovalue |    |
|--------------------------------|-------|-----|----------|---------|--------|----|
| 4) Benzaldehyde                | 6.62  | 77  | 83010    | 11.049  | ng/ul# | 1  |
| 6) Phenol                      | 6.68  | 94  | 414804   | 27.661  | ng/ul  | 96 |
| 10) 2-Chlorophenol             | 7.03  | 128 | 262904   | 24.180  | ng/ul  | 95 |
| 14) Acetophenone               | 8.25  | 105 | 125346   | 6.810   | ng/ul# | 33 |
| 15) N-Nitroso-di-n-propylamine | 8.26  | 70  | 228193   | 22.829  | ng/ul  | 88 |
| 17) Hexachloroethane           | 8.50  | 117 | 39403    | 7.823   | ng/ul# | 9  |
| 24) 2,4-Dimethylphenol         | 9.42  | 107 | 15353    | 1.166   | ng/ul# | 68 |
| 30) 4-Chloroaniline            | 10.32 | 127 | 12159092 | 967.348 | ng/ul# | 16 |
| 32) Caprolactam                | 11.15 | 113 | 4099     | 1.183   | ng/ul# | 1  |
| 33) 4-Chloro-3-methylphenol    | 11.53 | 107 | 283115   | 23.067  | ng/ul  | 91 |
| 34) 2-Methylnaphthalene        | 11.78 | 142 | 46891    | 1.854   | ng/ul  | 86 |
| 40) 1,1'-Biphenyl              | 12.92 | 154 | 4567890  | 119.381 | ng/ul  | 98 |
| 44) Dimethylphthalate          | 13.56 | 163 | 155283   | 4.033   | ng/ul  | 99 |
| 47) Acenaphthylene             | 13.82 | 152 | 679814   | 14.191  | ng/ul# | 62 |
| 49) Acenaphthene               | 14.16 | 153 | 1553075  | 47.522  | ng/ul  | 99 |
| 52) 4-Nitrophenol              | 14.33 | 109 | 112030   | 17.390  | ng/ul# | 69 |
| 53) Dibenzofuran               | 14.50 | 168 | 1802421  | 39.695  | ng/ul  | 99 |
| 54) 2,4-Dinitrotoluene         | 14.49 | 165 | 397654   | 36.393  | ng/ul# | 55 |
| 58) Fluorene                   | 15.15 | 166 | 3202625  | 84.175  | ng/ul# | 97 |
| 64) N-Nitrosodiphenylamine     | 15.37 | 169 | 144119   | 5.813   | ng/ul# | 86 |
| 68) Pentachlorophenol          | 16.52 | 266 | 108029   | 19.852  | ng/ul  | 88 |
| 69) Phenanthrene               | 16.98 | 178 | 1735310  | 36.729  | ng/ul  | 99 |
| 71) Anthracene                 | 16.98 | 178 | 1735310  | 36.073  | ng/ul  | 97 |

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jan 22 15:13:20 2020  
 Response via : Initial Calibration

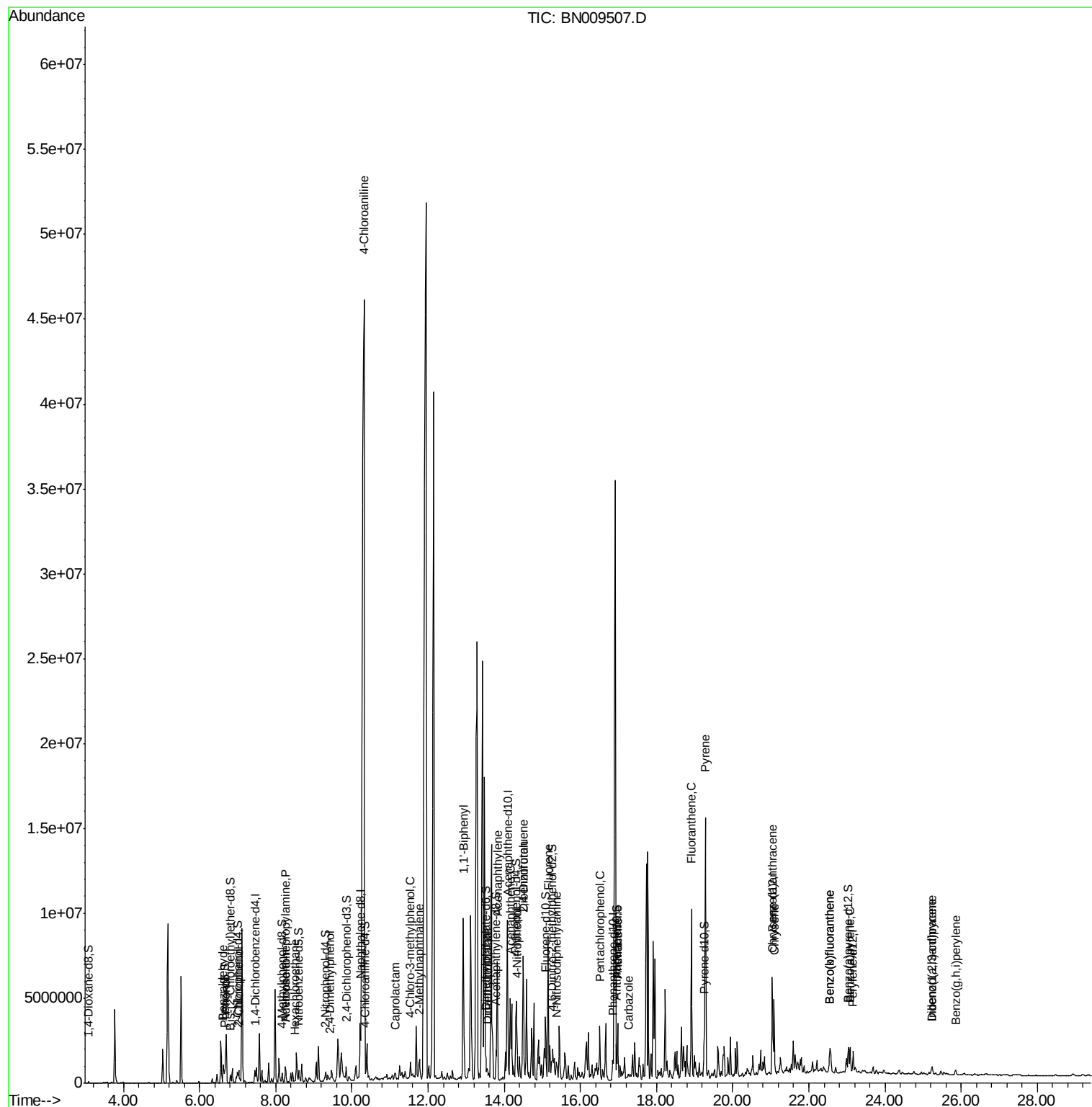
| Internal Standards         | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|----------------------------|-------|------|----------|---------|--------|----------|
| 74) Carbazole              | 17.25 | 167  | 54747    | 1.329   | ng/ul# | 77       |
| 76) Fluoranthene           | 18.92 | 202  | 4977769  | 91.907  | ng/ul  | 99       |
| 79) Pyrene                 | 19.29 | 202  | 9139077  | 176.485 | ng/ul  | 97       |
| 82) Benzo(a)anthracene     | 21.04 | 228  | 2453799  | 50.383  | ng/ul  | 95       |
| 84) Chrysene               | 21.09 | 228  | 2266821  | 47.780  | ng/ul  | 98       |
| 87) Benzo(b)fluoranthene   | 22.55 | 252  | 1118905  | 22.267  | ng/ul# | 97       |
| 88) Benzo(k)fluoranthene   | 22.55 | 252  | 1118905  | 22.646  | ng/ul# | 98       |
| 90) Benzo(a)pyrene         | 23.07 | 252  | 870343   | 19.297  | ng/ul  | 99       |
| 91) Indeno(1,2,3-cd)pyrene | 25.23 | 276  | 387614   | 7.091   | ng/ul  | 94       |
| 92) Dibenzo(a,h)anthracene | 25.23 | 278  | 162641   | 3.527   | ng/ul  | 96       |
| 93) Benzo(a,h,i)perylene   | 25.86 | 276  | 318438   | 7.004   | ng/ul  | 98       |

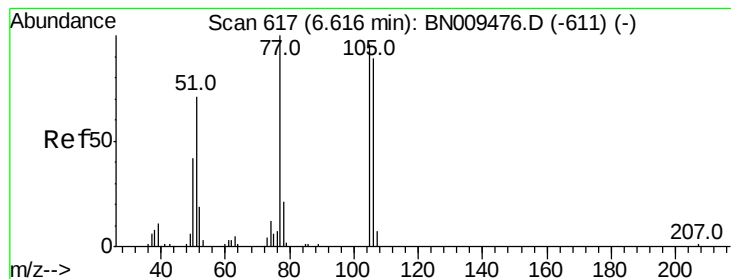
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 22 15:13:20 2020  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 11.049 ng/ul

RT: 6.62 min Scan# 618

Delta R.T. -0.00 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampled :

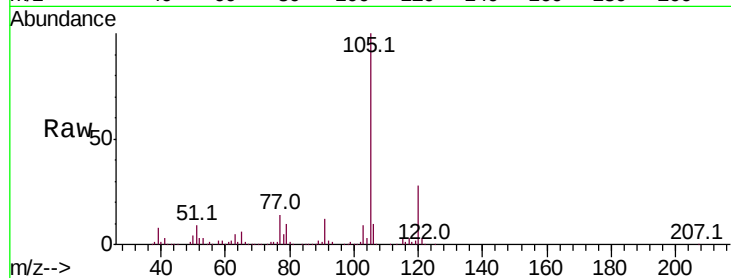
Tot Ion: 77 Resp: 83010

Ion Ratio Lower Upper

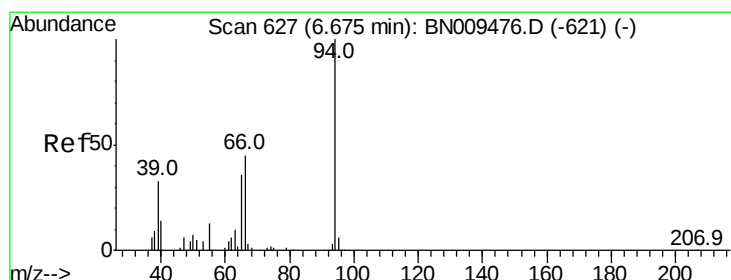
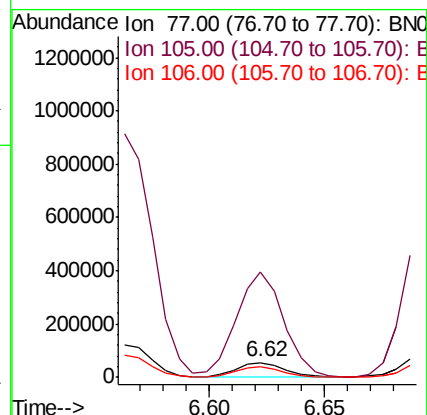
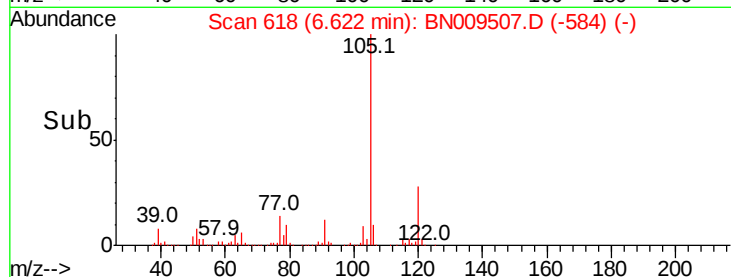
77 100

105 706.0 70.2 105.4#

106 69.5 65.6 98.4



Abundance Ion 77.00 (76.70 to 77.70): BNC  
Ion 105.00 (104.70 to 105.70): BNC  
Ion 106.00 (105.70 to 106.70): BNC



#6

Phenol

Concen: 27.661 ng/ul

RT: 6.68 min Scan# 627

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

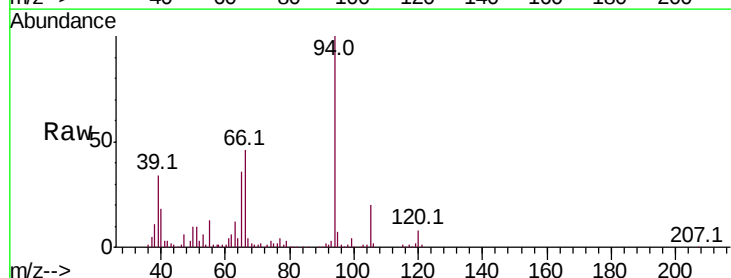
Tgt Ion: 94 Resp: 414804

Ion Ratio Lower Upper

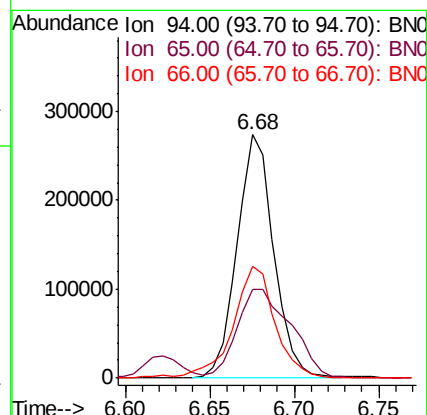
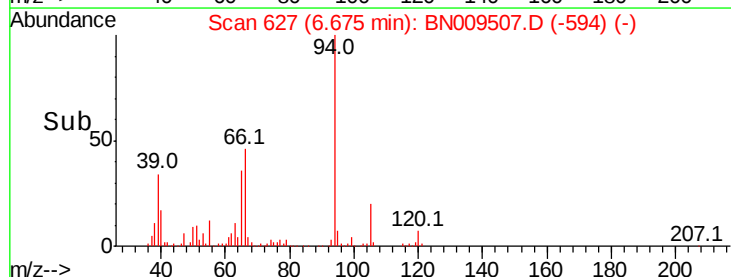
94 100

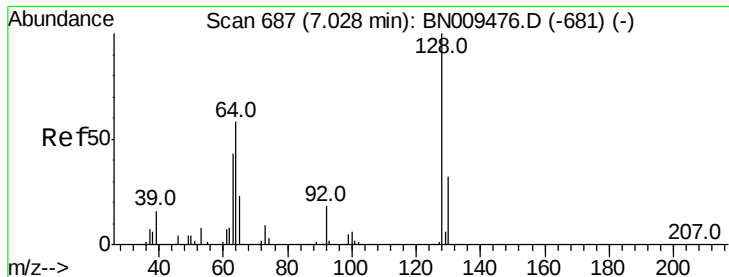
65 36.4 29.4 44.0

66 45.7 39.8 59.8



Abundance Ion 94.00 (93.70 to 94.70): BNC  
Ion 65.00 (64.70 to 65.70): BNC  
Ion 66.00 (65.70 to 66.70): BNC

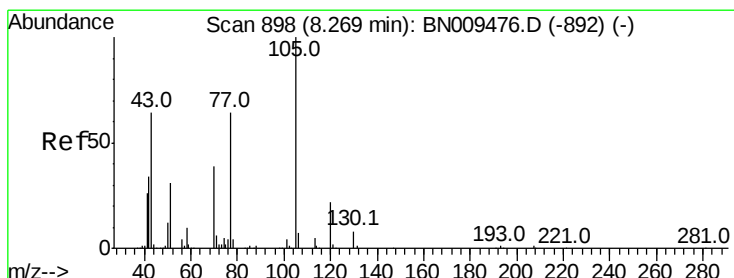
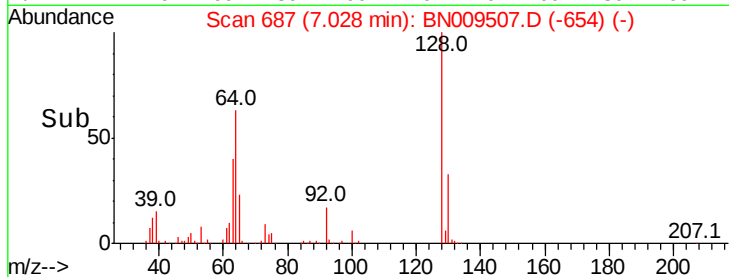
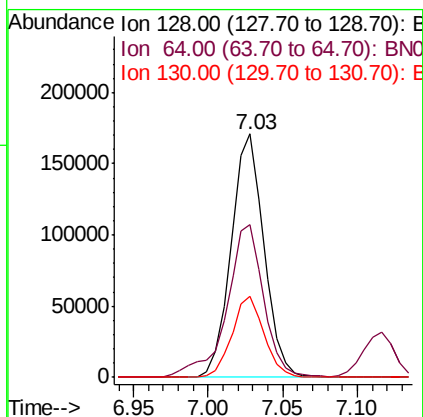
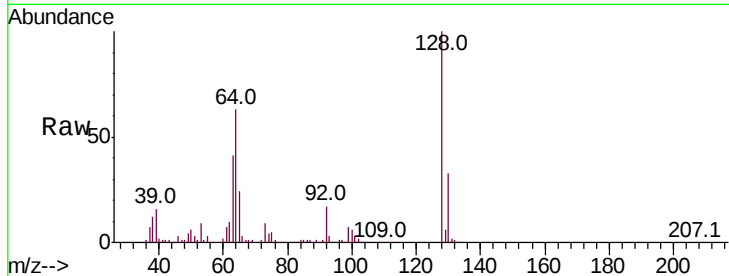




#10  
2-Chlorophenol  
Concen: 24.180 ng/ul  
RT: 7.03 min Scan# 687  
Delta R.T. -0.01 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

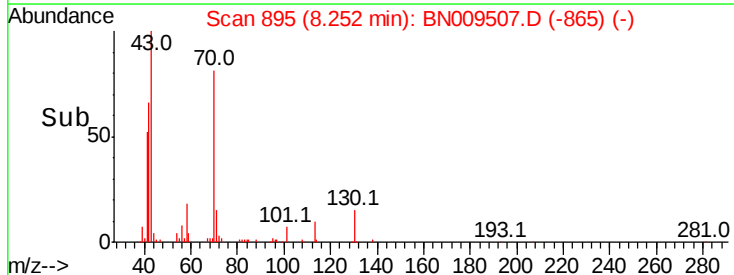
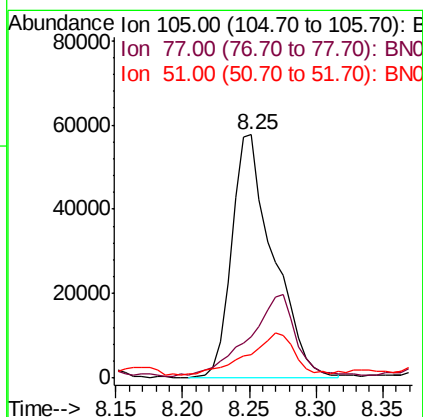
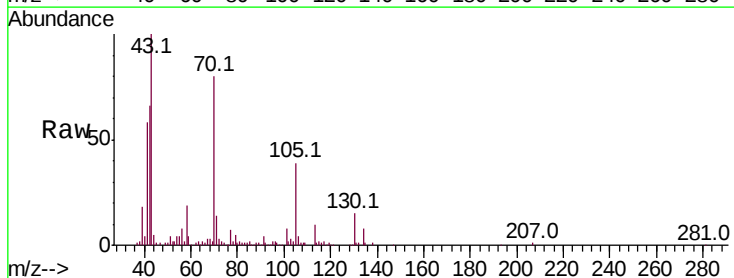
Instrument :  
BNA\_N  
ClientSampleId :

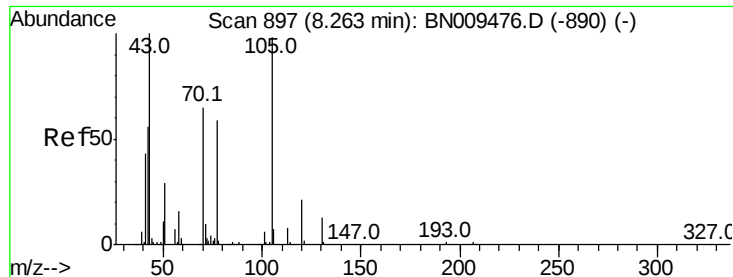
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 64      | 62.8  | 54.3  | 81.5  |
| 130     | 33.4  | 27.9  | 41.9  |



#14  
Acetophenone  
Concen: 6.810 ng/ul  
RT: 8.25 min Scan# 895  
Delta R.T. -0.02 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 77      | 16.8  | 66.4  | 99.6# |
| 51      | 9.6   | 35.6  | 53.4# |





#15

N-Nitroso-di-n-propylamine

Concen: 22.829 ng/ul

RT: 8.26 min Scan# 896

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampleId :

Tot Ion: 70 Resp: 228193

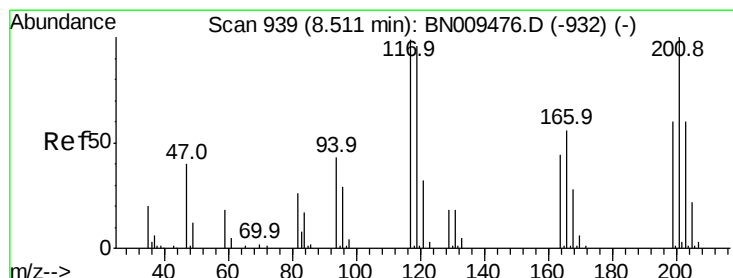
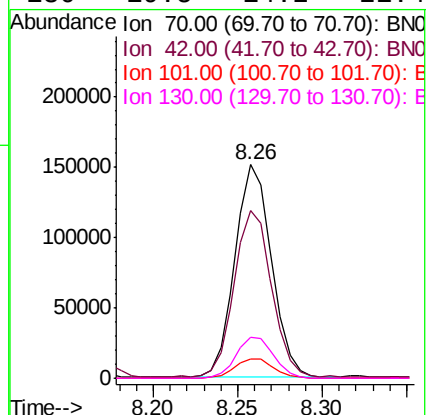
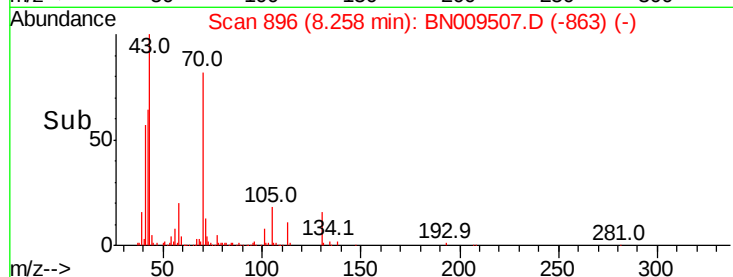
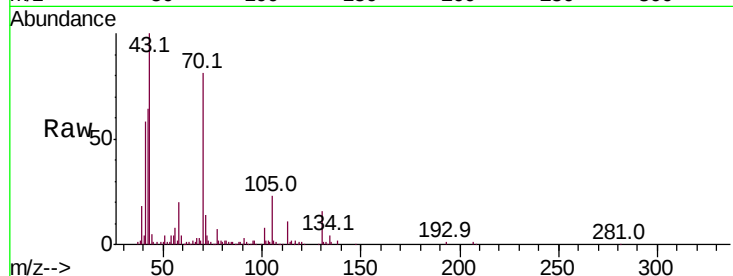
Ion Ratio Lower Upper

70 100

42 78.3 73.6 110.4

101 9.3 7.5 11.3

130 19.5 14.2 21.4



#17

Hexachloroethane

Concen: 7.823 ng/ul

RT: 8.50 min Scan# 938

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

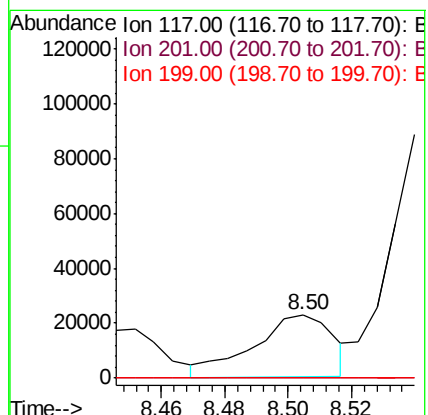
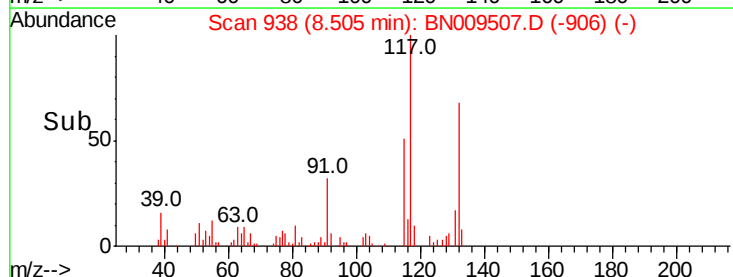
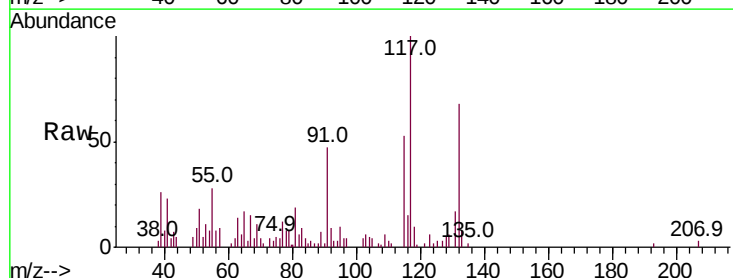
Tgt Ion: 117 Resp: 39403

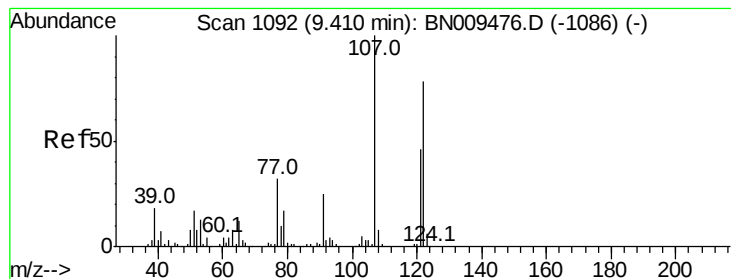
Ion Ratio Lower Upper

117 100

201 0.0 76.5 114.7#

199 0.0 46.6 69.8#





#24

2,4-Dimethylphenol

Concen: 1.166 ng/ul

RT: 9.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampleId :

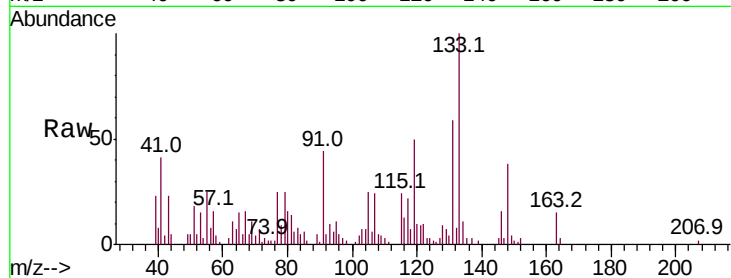
Tot Ion:107 Resp: 15353

Ion Ratio Lower Upper

107 100

121 37.8 39.0 58.4#

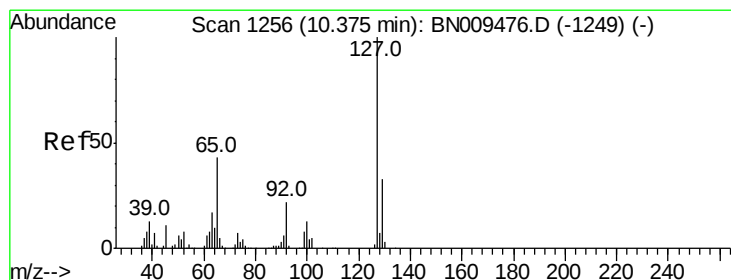
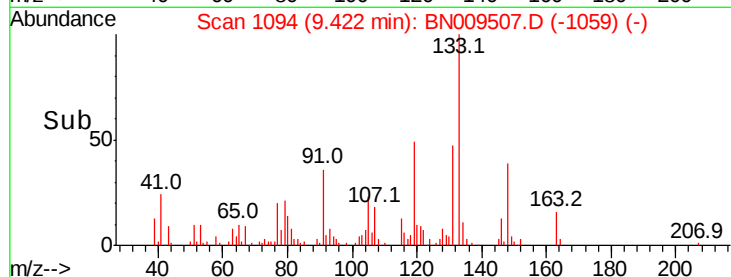
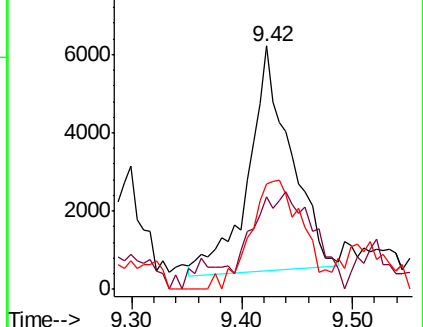
122 43.0 64.1 96.1#



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E



#30

4-Chloroaniline

Concen: 967.348 ng/ul

RT: 10.32 min Scan# 1247

Delta R.T. -0.06 min

Lab File: BN009507.D

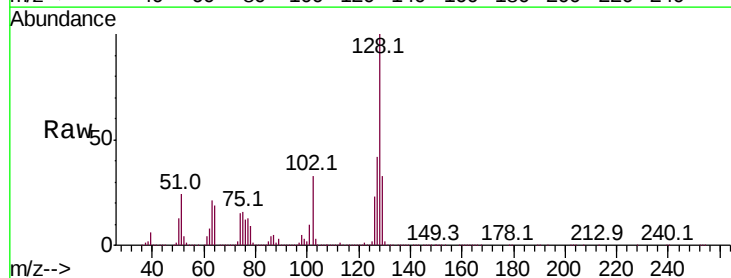
Acq: 31 Jan 2020 12:41

Tgt Ion:127 Resp:12159092

Ion Ratio Lower Upper

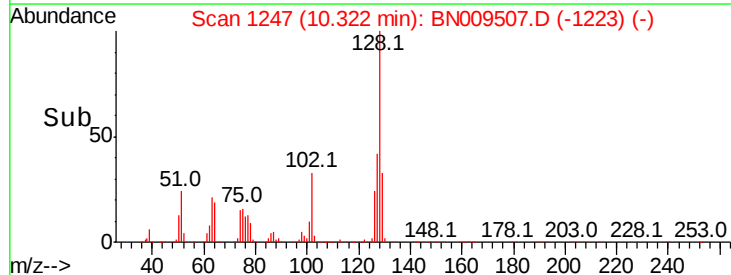
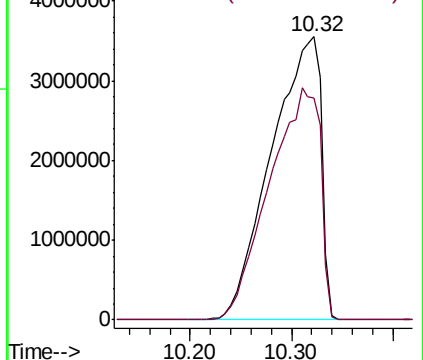
127 100

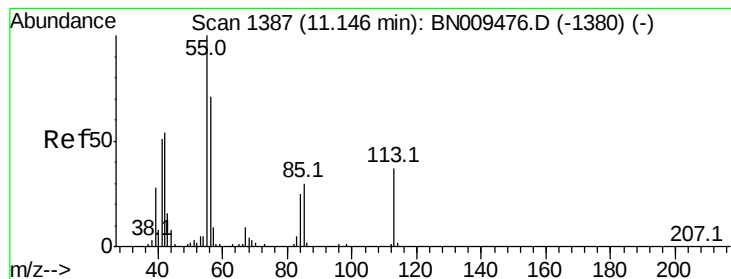
129 78.3 25.4 38.2#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E





#32

Caprolactam

Concen: 1.183 ng/ul

RT: 11.15 min Scan# 1388

Delta R.T. -0.00 min

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BNA\_N

ClientSampleId :

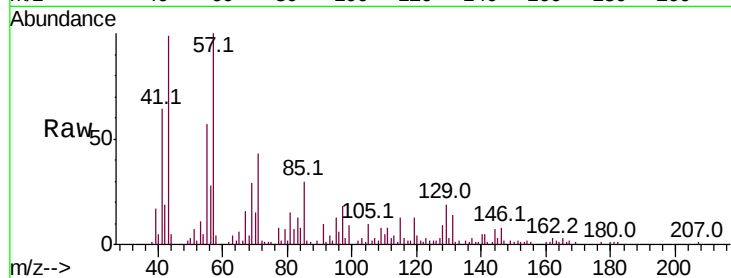
Tot Ion:113 Resp: 4099

Ion Ratio Lower Upper

113 100

55 1391.0 214.0 321.0#

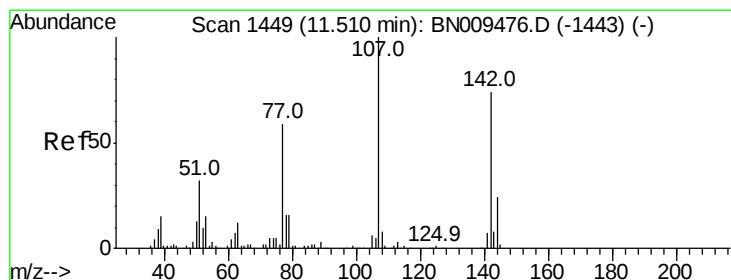
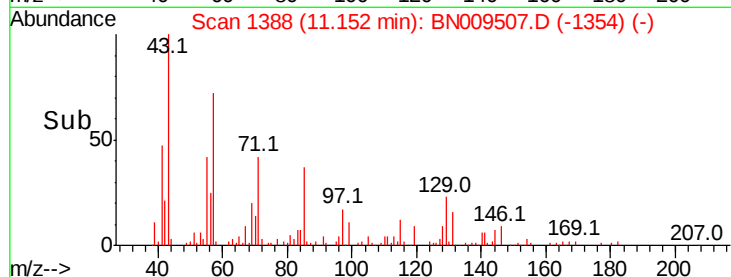
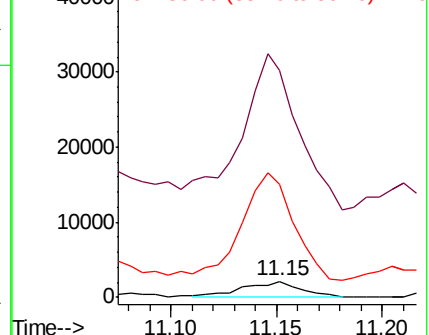
56 697.6 157.5 236.3#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BN0

Ion 56.00 (55.70 to 56.70): BN0



#33

4-Chloro-3-methylphenol

Concen: 23.067 ng/ul

RT: 11.53 min Scan# 1453

Delta R.T. 0.02 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

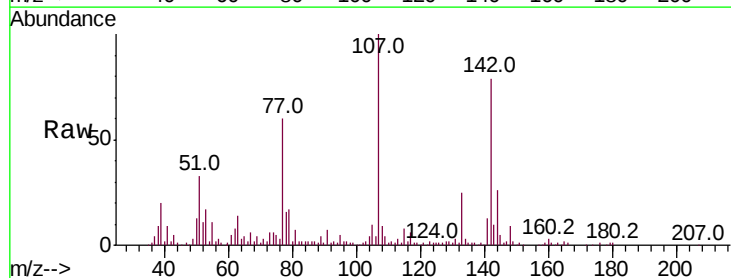
Tgt Ion:107 Resp: 283115

Ion Ratio Lower Upper

107 100

144 26.5 18.9 28.3

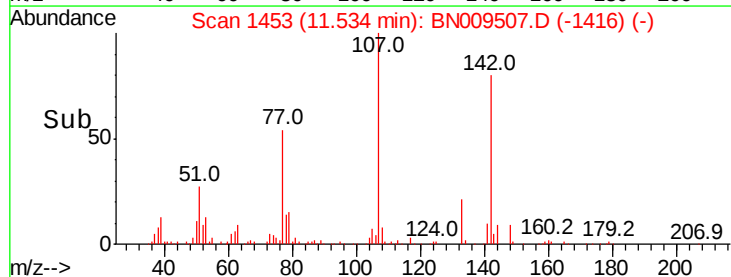
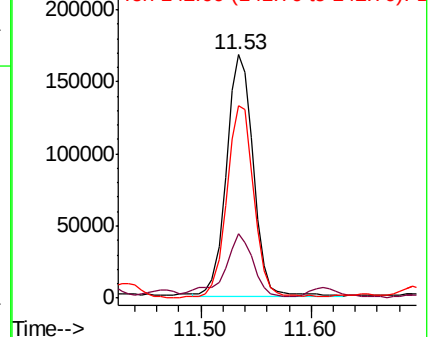
142 79.2 56.8 85.2

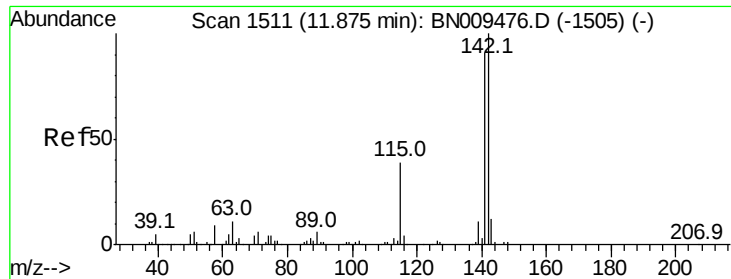


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

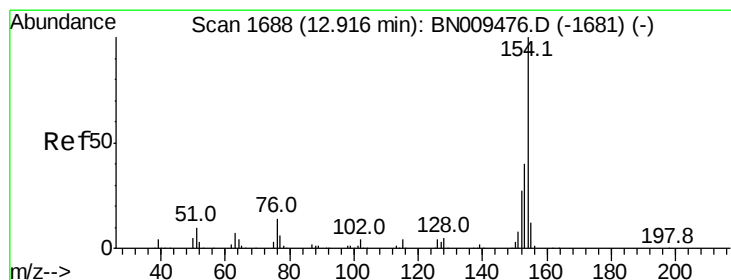
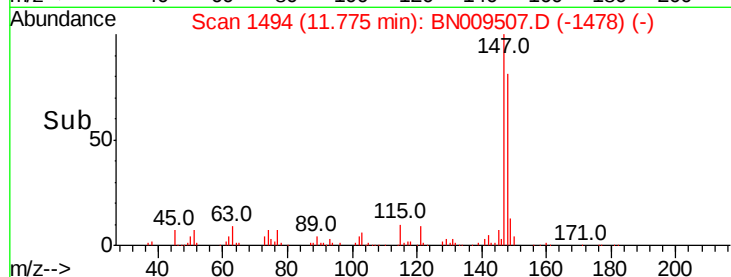
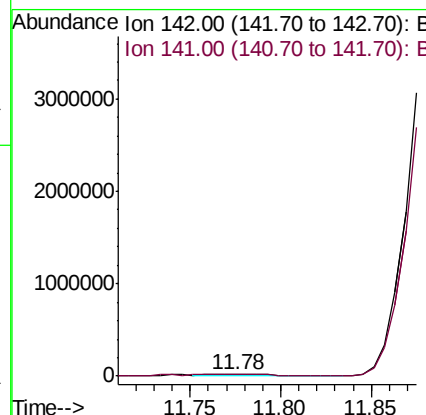
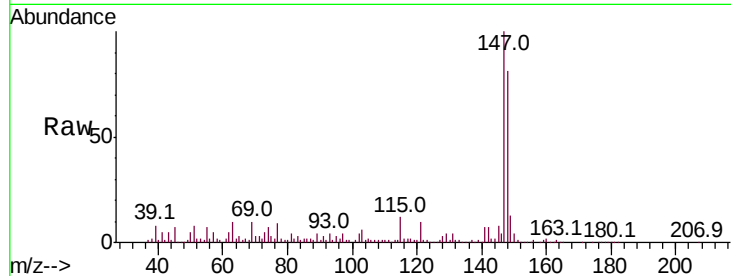




#34  
 2-Methylnaphthalene  
 Concen: 1.854 ng/ul  
 RT: 11.78 min Scan# 1494  
 Delta R.T. -0.11 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

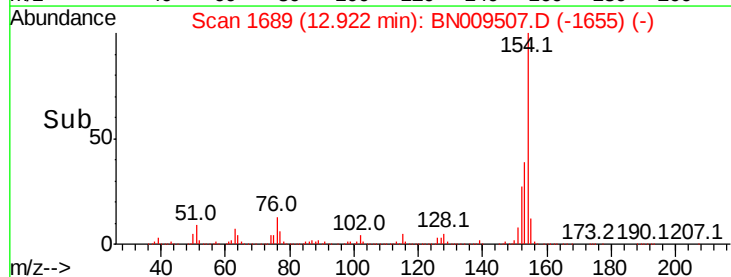
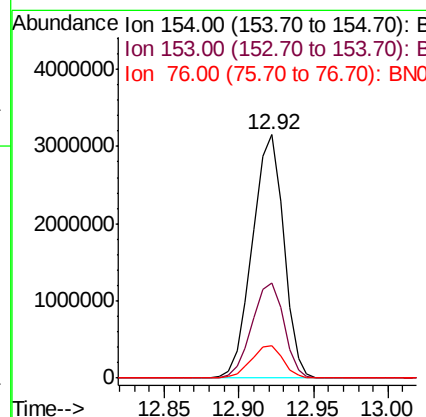
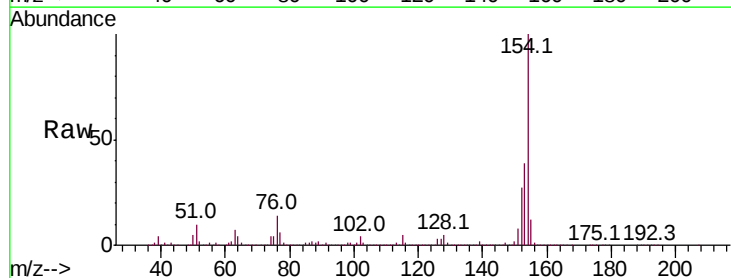
Instrument :  
 BNA\_N  
 ClientSampleId :

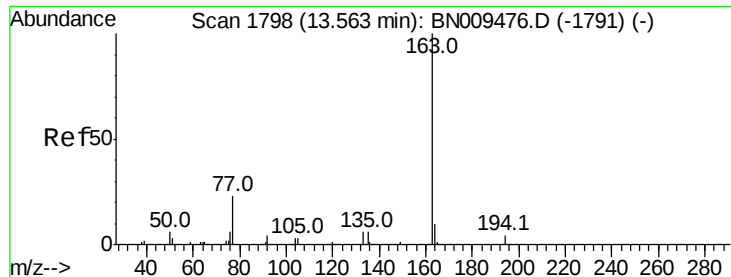
Tot Ion:142 Resp: 46891  
 Ion Ratio Lower Upper  
 142 100  
 141 99.7 69.3 103.9



#40  
 1,1'-Biphenyl  
 Concen: 119.381 ng/ul  
 RT: 12.92 min Scan# 1689  
 Delta R.T. -0.00 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

Tgt Ion:154 Resp: 4567890  
 Ion Ratio Lower Upper  
 154 100  
 153 39.3 32.6 49.0  
 76 13.5 11.4 17.0

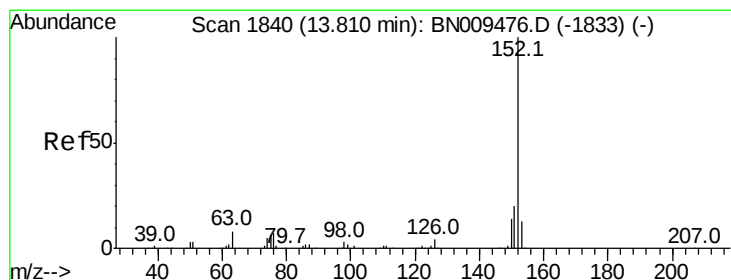
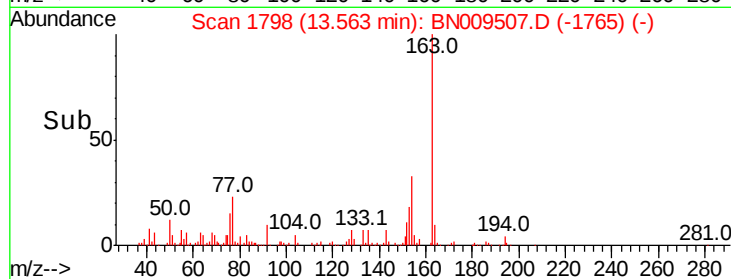
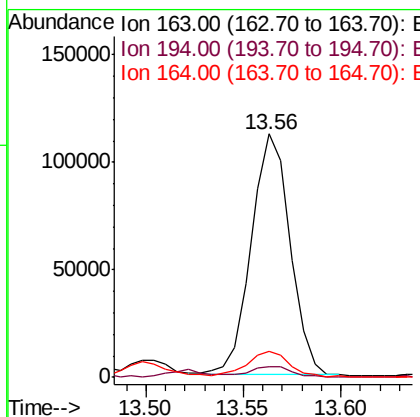
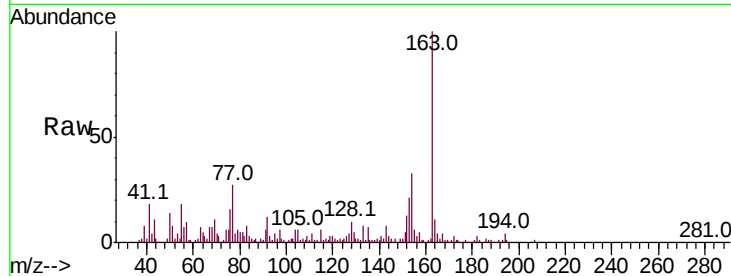




#44  
Dimethylphthalate  
Concen: 4.033 ng/ul  
RT: 13.56 min Scan# 1798  
Delta R.T. -0.01 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

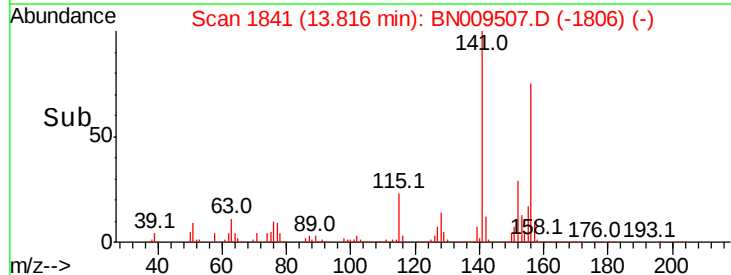
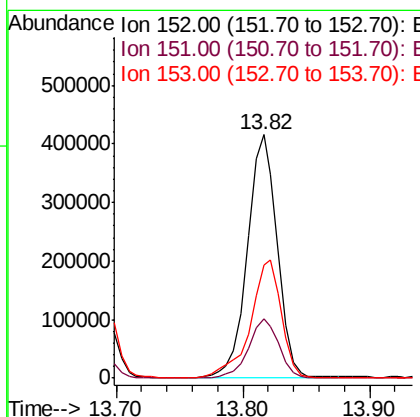
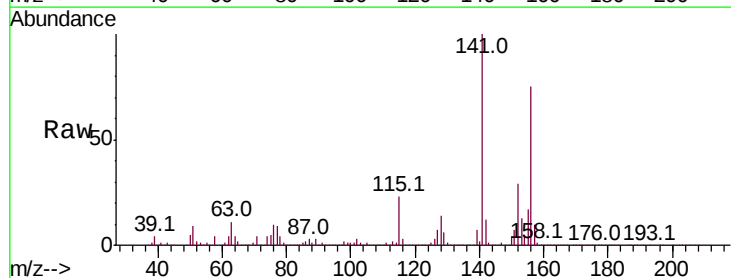
Instrument :  
BNA\_N  
ClientSampled :

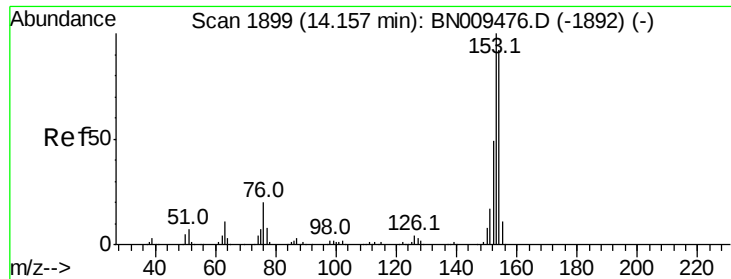
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.5   | 3.1   | 4.7   |
| 164     | 10.9  | 8.3   | 12.5  |



#47  
Acenaphthylene  
Concen: 14.191 ng/ul  
RT: 13.82 min Scan# 1841  
Delta R.T. 0.01 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 24.3  | 16.2  | 24.4  |
| 153     | 46.5  | 10.8  | 16.2# |





#49

Acenaphthene

Concen: 47.522 ng/ul

RT: 14.16 min Scan# 1899

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampled :

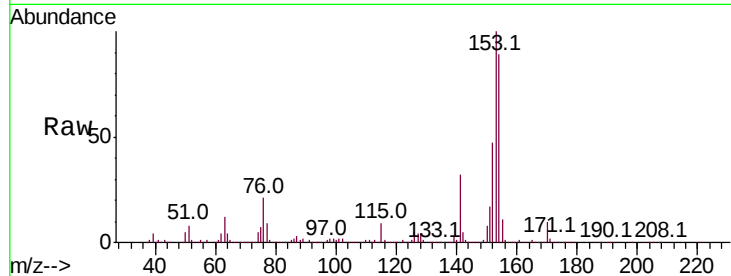
Tot Ion:153 Resp: 1553075

Ion Ratio Lower Upper

153 100

152 46.5 36.3 54.5

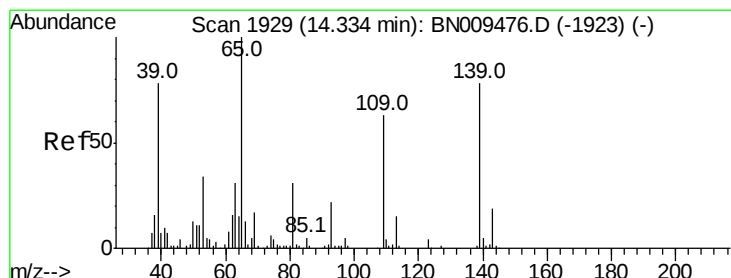
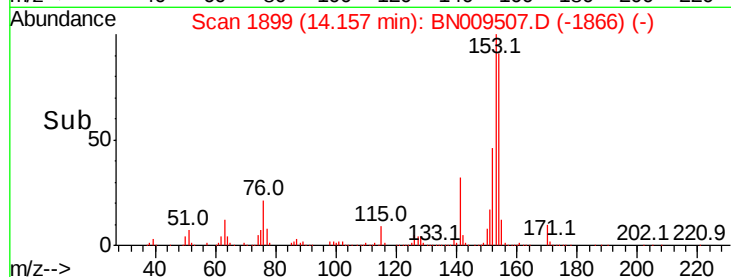
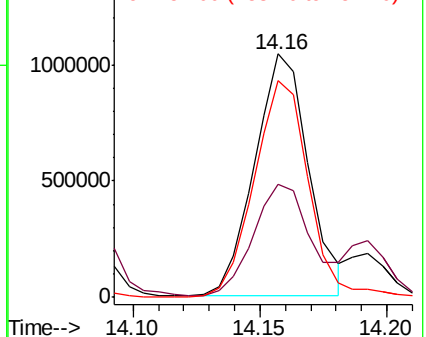
154 89.1 71.4 107.0



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#52

4-Nitrophenol

Concen: 17.390 ng/ul

RT: 14.33 min Scan# 1929

Delta R.T. -0.00 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

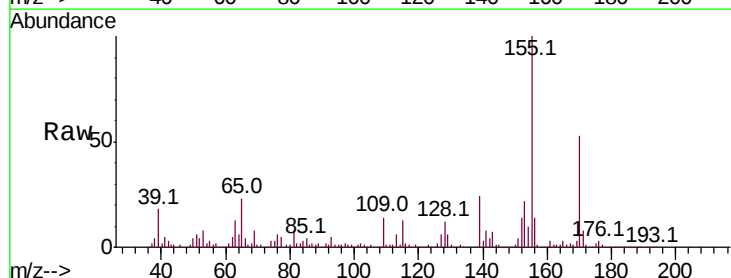
Tgt Ion:109 Resp: 112030

Ion Ratio Lower Upper

109 100

139 173.8 85.3 127.9#

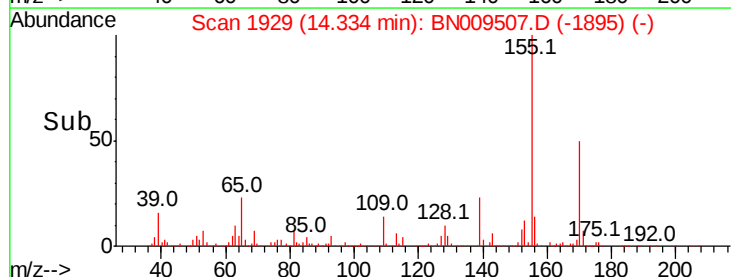
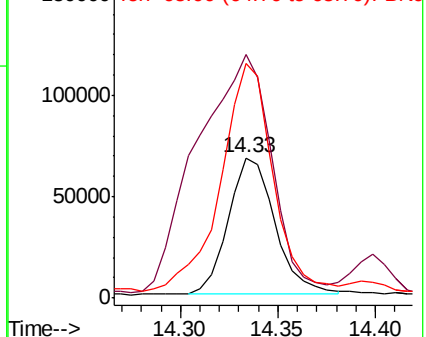
65 167.7 125.7 188.5

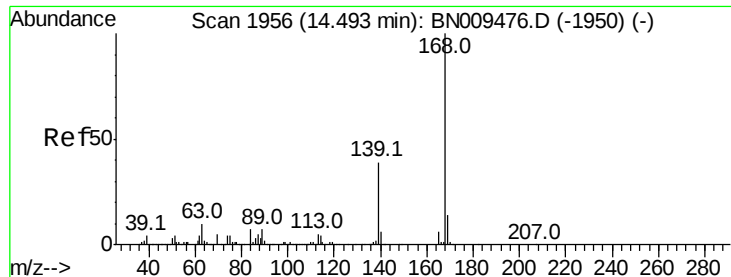


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BNC





#53

Dibenzenofuran

Concen: 39.695 ng/ul

RT: 14.50 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

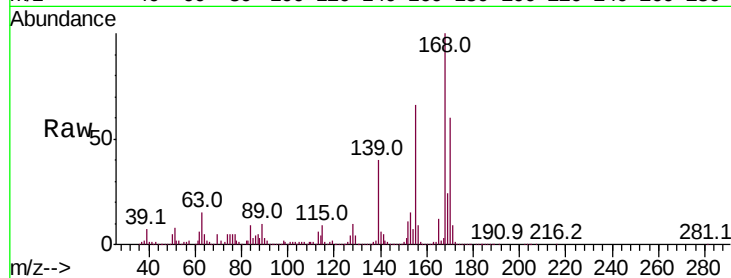
ClientSampled :

Tot Ion:168 Resp: 1802421

Ion Ratio Lower Upper

168 100

139 39.7 31.4 47.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

1500000

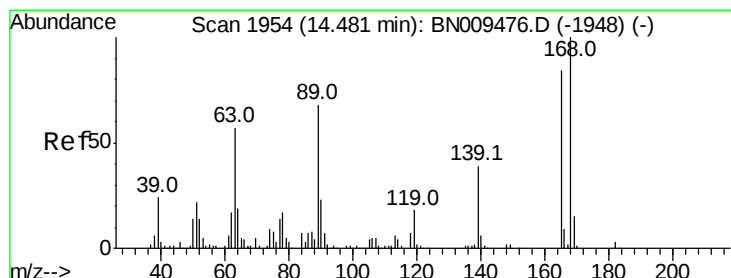
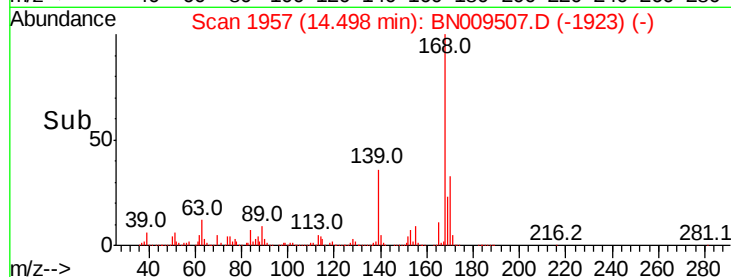
1000000

500000

0

14.45 14.50 14.55

Time-->



#54

2,4-Dinitrotoluene

Concen: 36.393 ng/ul

RT: 14.49 min Scan# 1956

Delta R.T. 0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

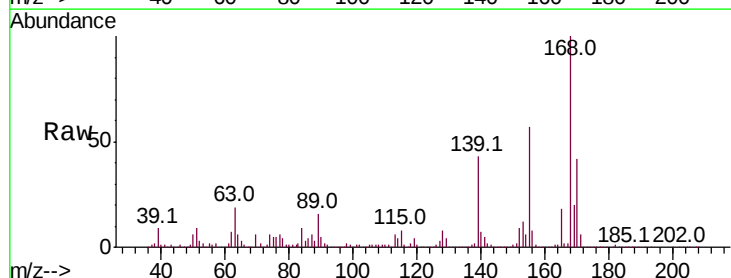
Tgt Ion:165 Resp: 397654

Ion Ratio Lower Upper

165 100

63 107.0 55.4 83.0#

182 3.8 2.0 3.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN0

Ion 182.00 (181.70 to 182.70): E

250000

200000

150000

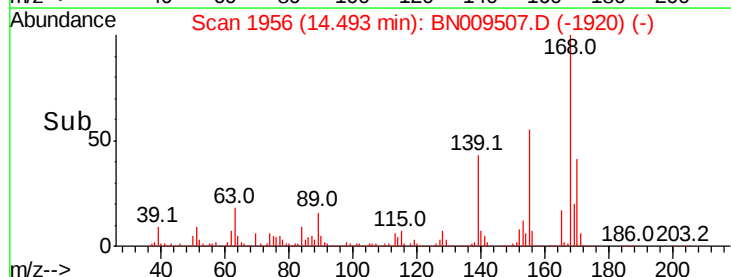
100000

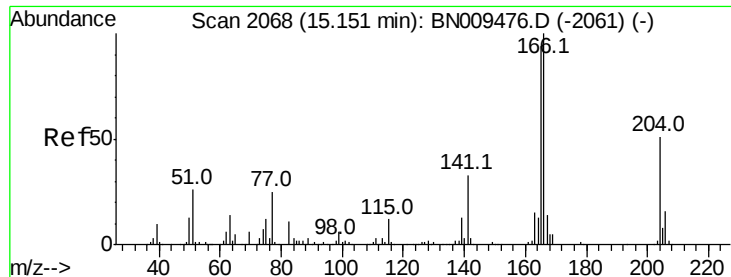
50000

0

14.40 14.49 14.50

Time-->

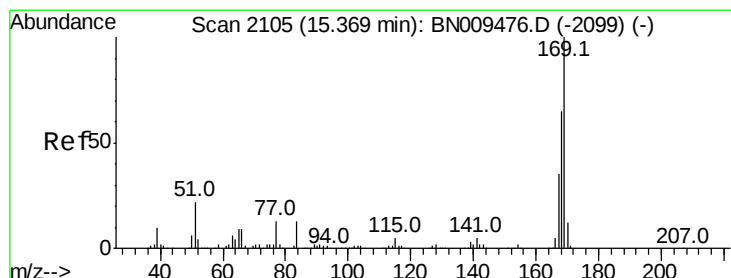
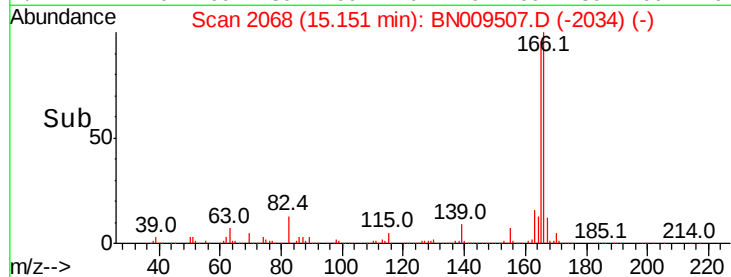
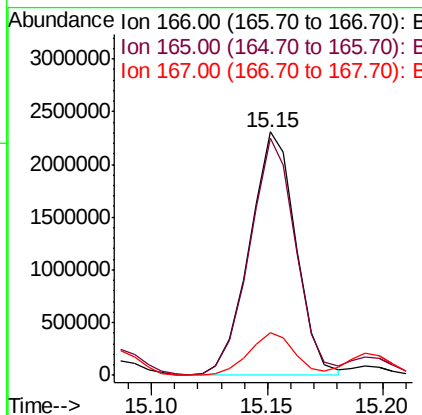
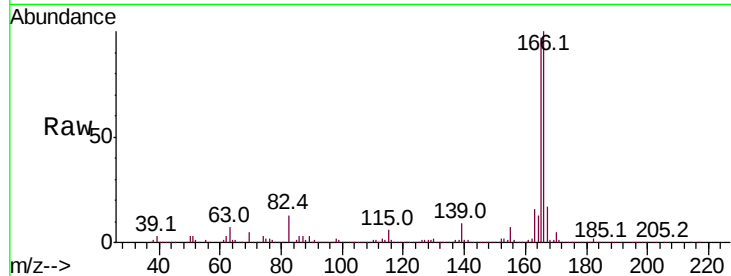




#58  
 Fluorene  
 Concen: 84.175 ng/ul  
 RT: 15.15 min Scan# 2068  
 Delta R.T. -0.00 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

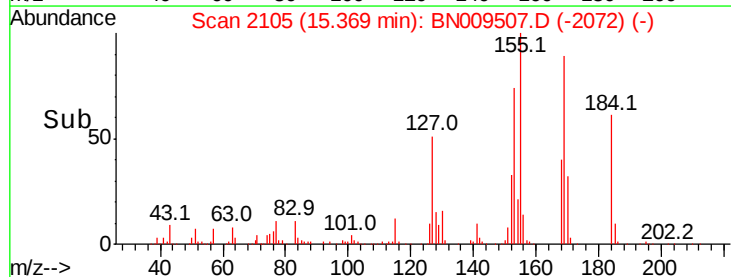
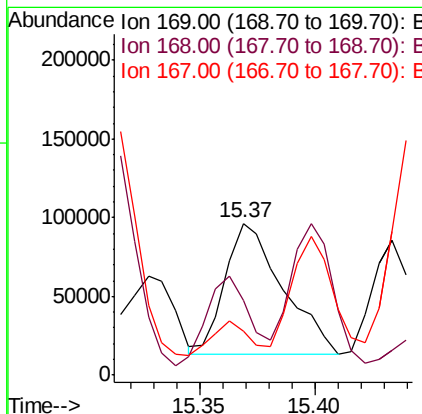
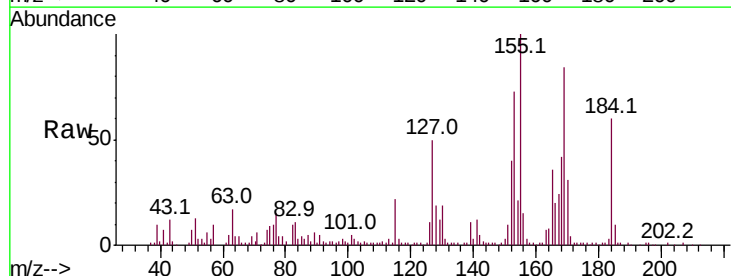
Instrument :  
 BNA\_N  
 ClientSampled :

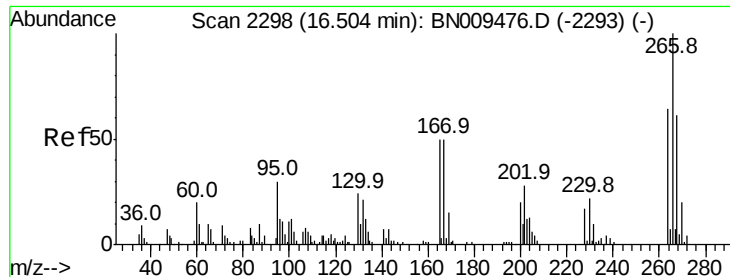
Tot Ion:166 Resp: 3202625  
 Ion Ratio Lower Upper  
 166 100  
 165 97.2 76.5 114.7  
 167 17.3 10.9 16.3#



#64  
 N-Nitrosodiphenylamine  
 Concen: 5.813 ng/ul  
 RT: 15.37 min Scan# 2105  
 Delta R.T. -0.01 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

Tgt Ion:169 Resp: 144119  
 Ion Ratio Lower Upper  
 169 100  
 168 49.6 49.8 74.8#  
 167 28.7 27.6 41.4

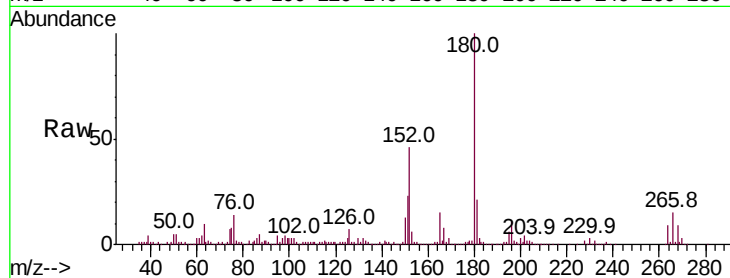




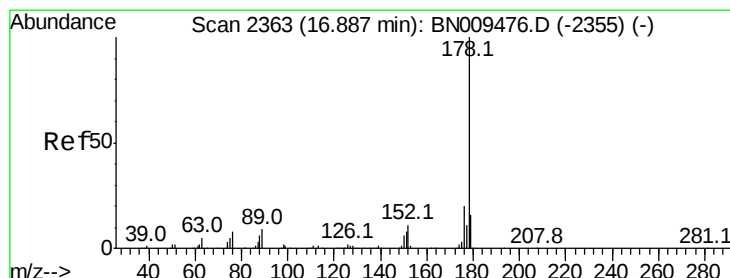
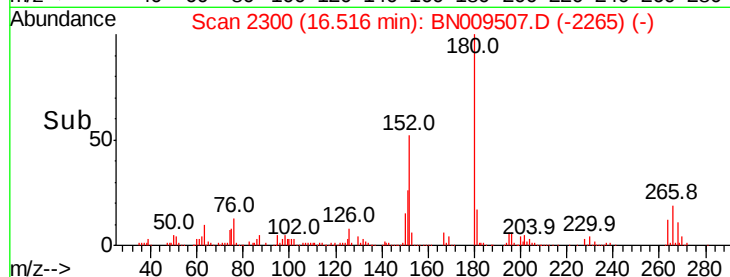
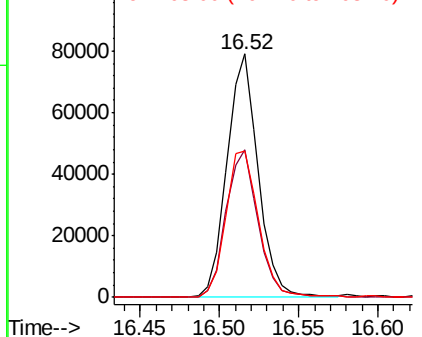
#68  
 Pentachlorophenol  
 Concen: 19.852 ng/ul  
 RT: 16.52 min Scan# 2300  
 Delta R.T. 0.01 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

Instrument :  
 BNA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 60.9  | 54.0  | 81.0  |
| 268     | 59.9  | 58.8  | 88.2  |

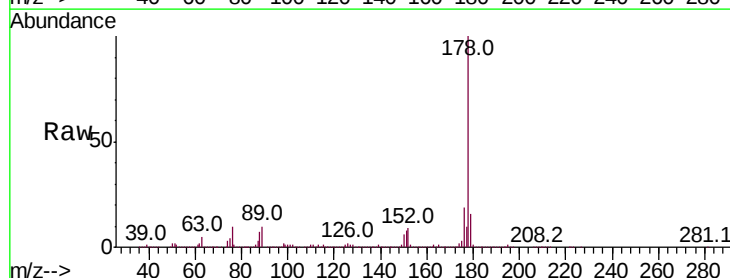


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

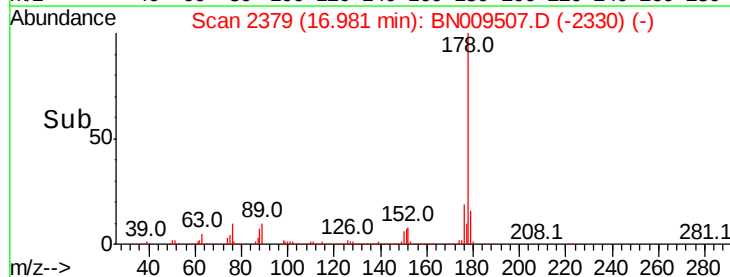
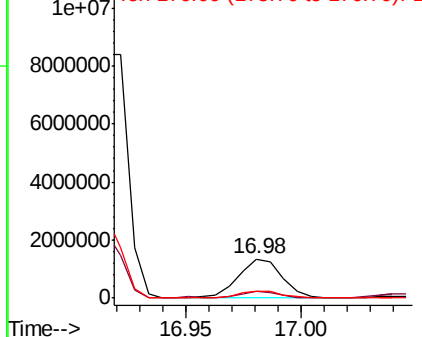


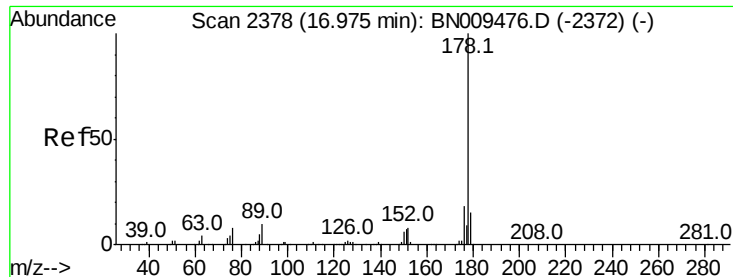
#69  
 Phenanthrene  
 Concen: 36.729 ng/ul  
 RT: 16.98 min Scan# 2379  
 Delta R.T. 0.09 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.2  | 13.3  | 19.9  |
| 176     | 19.0  | 15.5  | 23.3  |



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 36.073 ng/ul

RT: 16.98 min Scan# 2379

Delta R.T. -0.00 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampled :

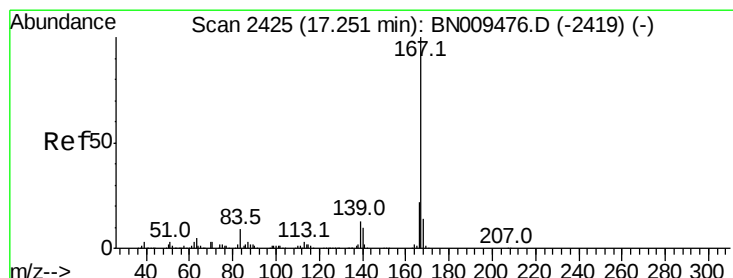
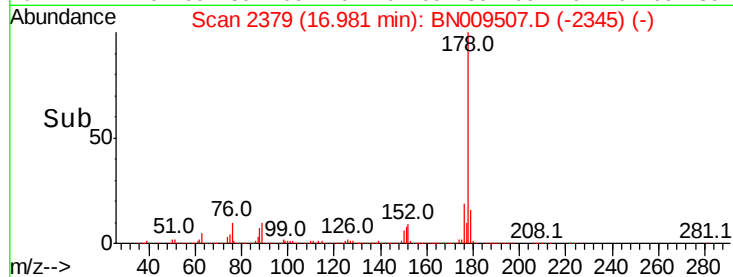
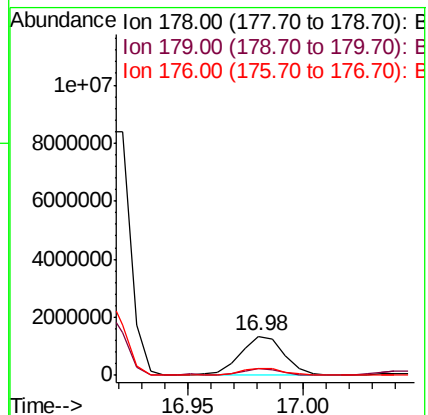
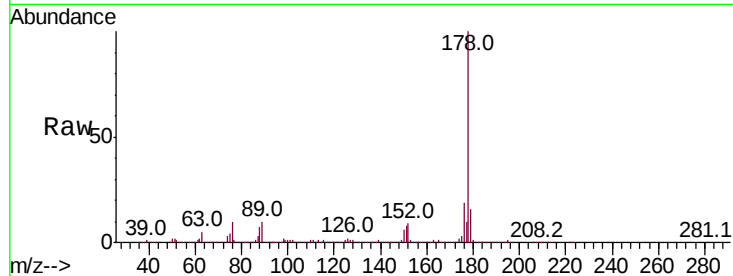
Tot Ion:178 Resp: 1735310

Ion Ratio Lower Upper

178 100

179 16.2 11.8 17.6

176 19.0 14.6 22.0



#74

Carbazole

Concen: 1.329 ng/ul

RT: 17.25 min Scan# 2425

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

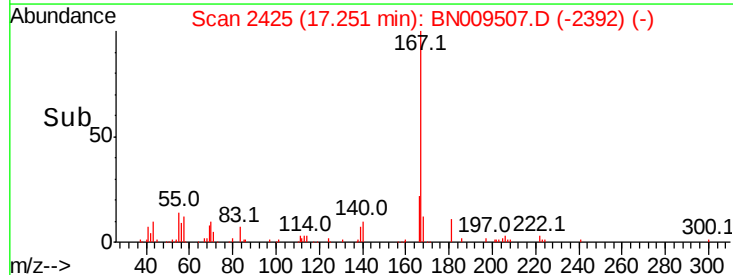
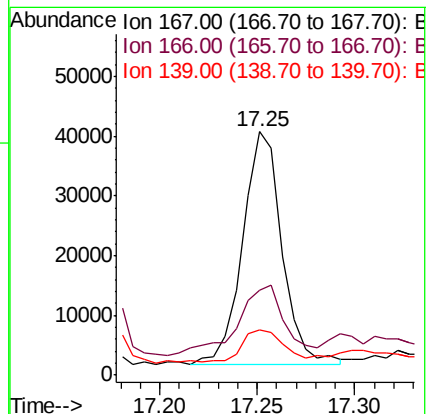
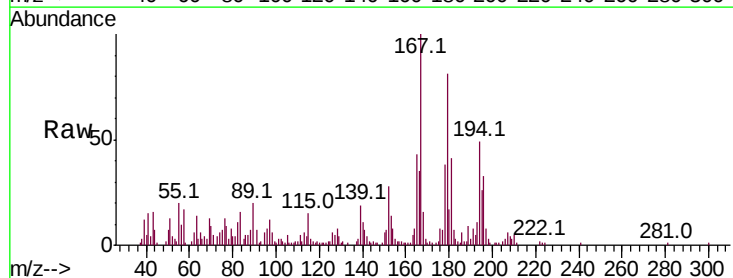
Tgt Ion:167 Resp: 54747

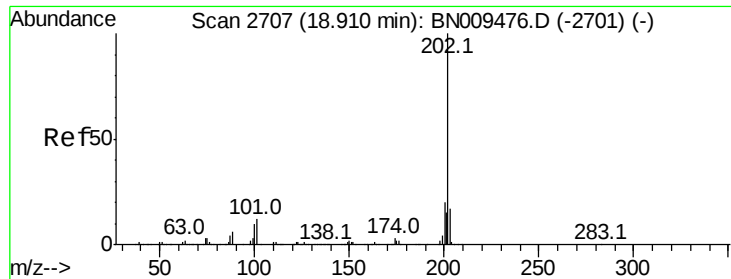
Ion Ratio Lower Upper

167 100

166 34.9 17.4 26.2#

139 18.8 10.6 15.8#





#76

Fluoranthene

Concen: 91.907 ng/ul

RT: 18.92 min Scan# 2708

Delta R.T. -0.00 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampleId :

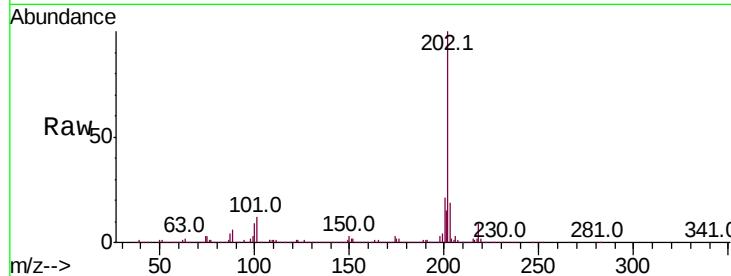
Tot Ion:202 Resp: 4977769

Ion Ratio Lower Upper

202 100

101 12.4 9.7 14.5

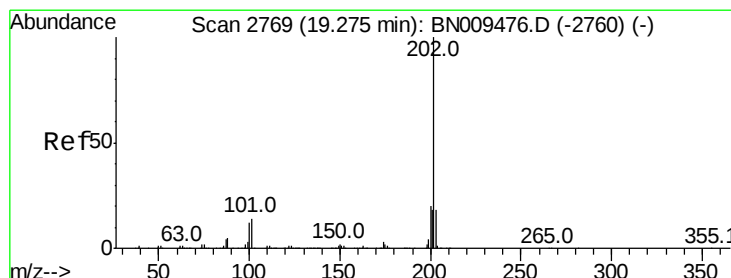
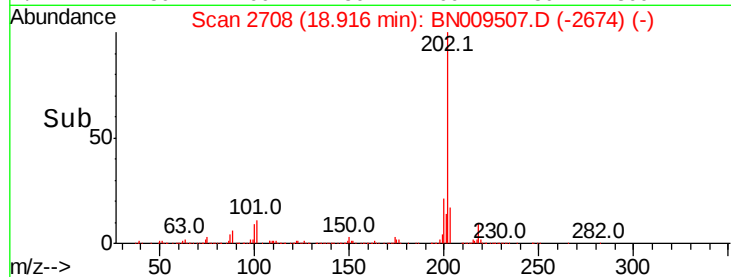
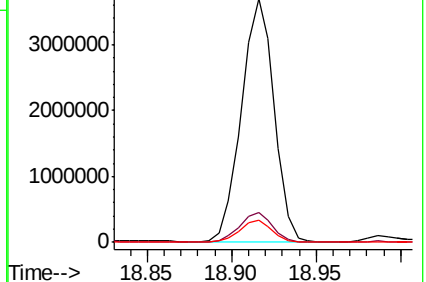
100 9.1 7.1 10.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 176.485 ng/ul

RT: 19.29 min Scan# 2771

Delta R.T. 0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

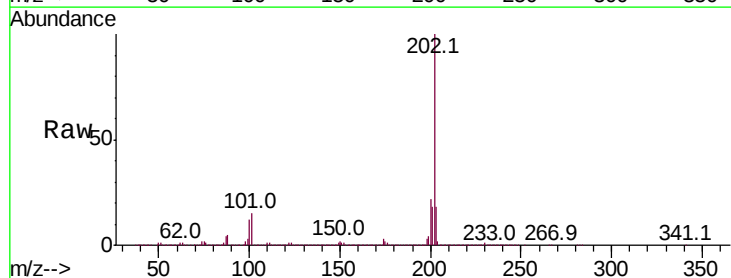
Tgt Ion:202 Resp: 9139077

Ion Ratio Lower Upper

202 100

101 14.7 10.9 16.3

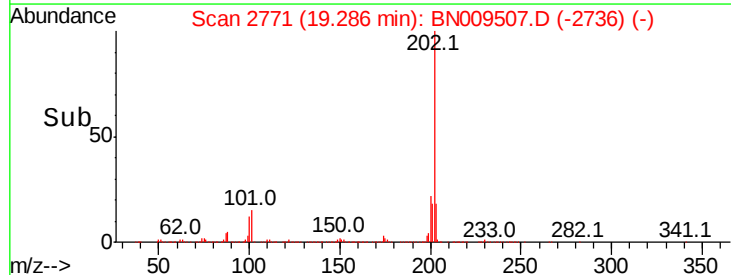
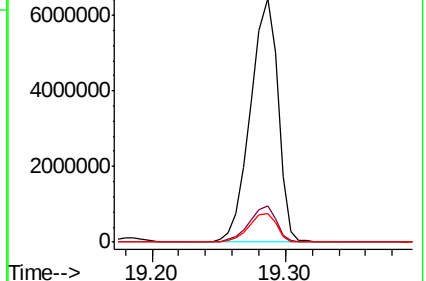
100 12.0 8.6 12.8

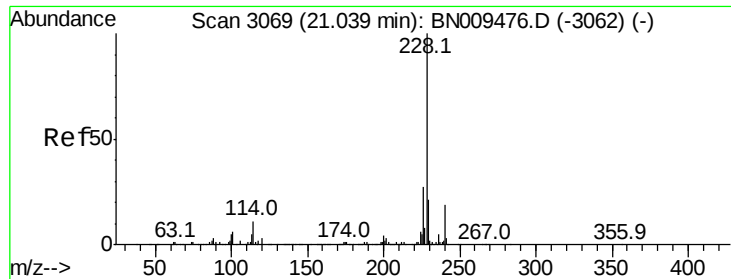


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

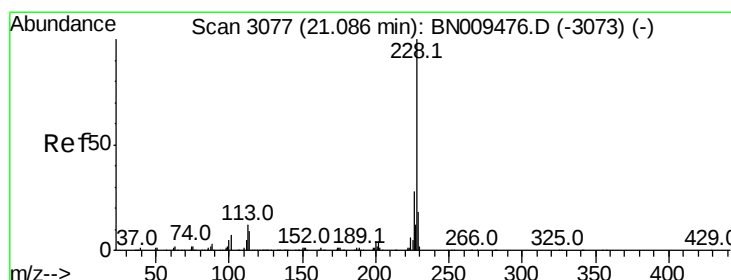
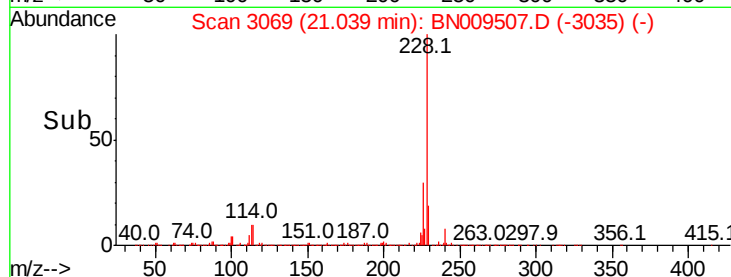
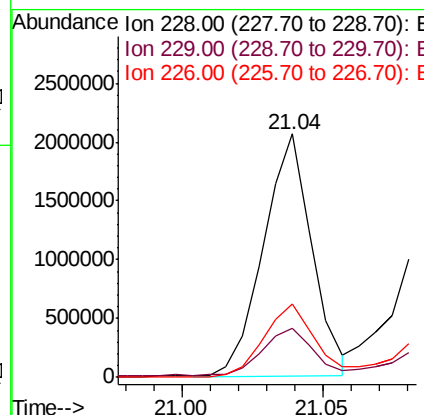
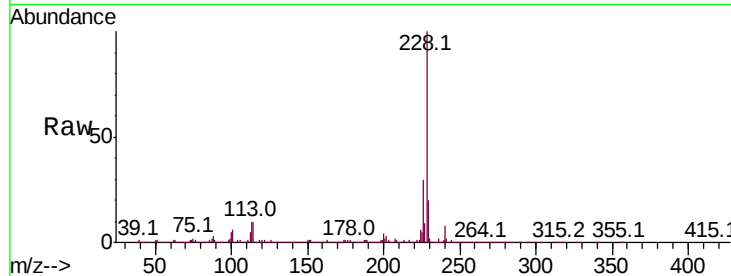




#82  
Benzo(a)anthracene  
Concen: 50.383 ng/ul  
RT: 21.04 min Scan# 3069  
Delta R.T. -0.00 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

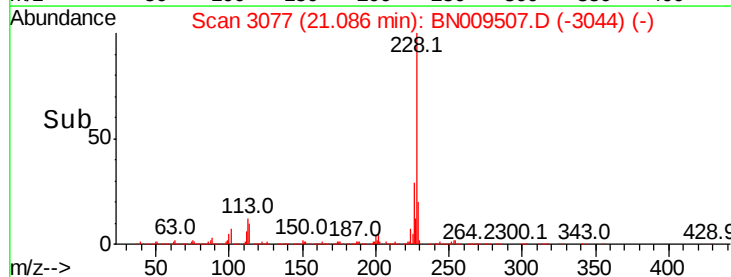
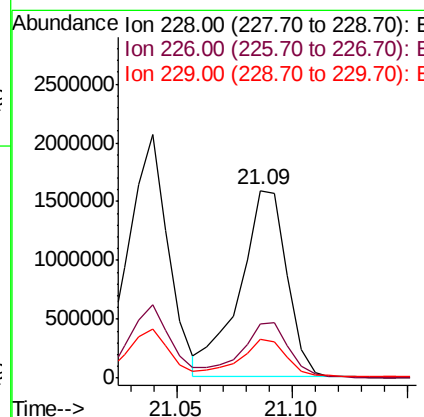
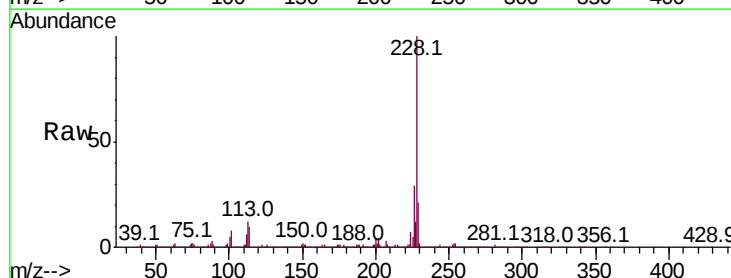
Instrument :  
BNA\_N  
ClientSampleId :

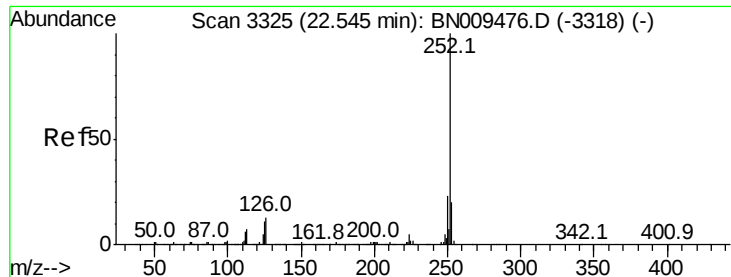
Tot Ion:228 Resp: 2453799  
Ion Ratio Lower Upper  
228 100  
229 20.1 15.9 23.9  
226 30.1 20.9 31.3



#84  
Chrysene  
Concen: 47.780 ng/ul  
RT: 21.09 min Scan# 3077  
Delta R.T. -0.01 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

Tgt Ion:228 Resp: 2266821  
Ion Ratio Lower Upper  
228 100  
226 29.2 22.9 34.3  
229 20.7 15.4 23.0

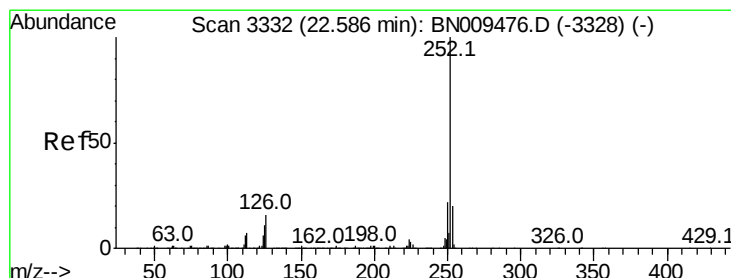
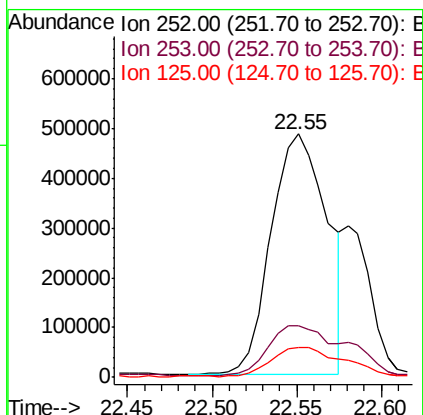
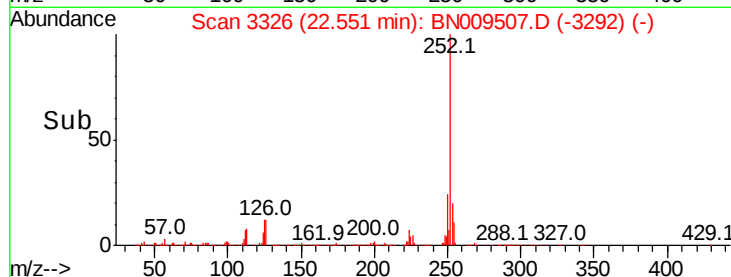
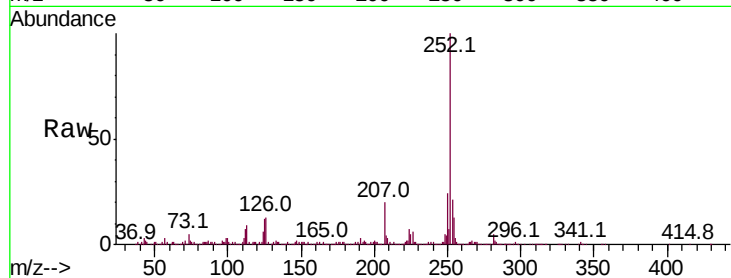




#87  
Benzo(b)fluoranthene  
Concen: 22.267 ng/ul  
RT: 22.55 min Scan# 3326  
Delta R.T. -0.00 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

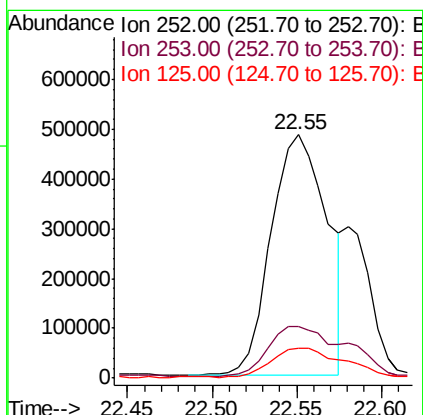
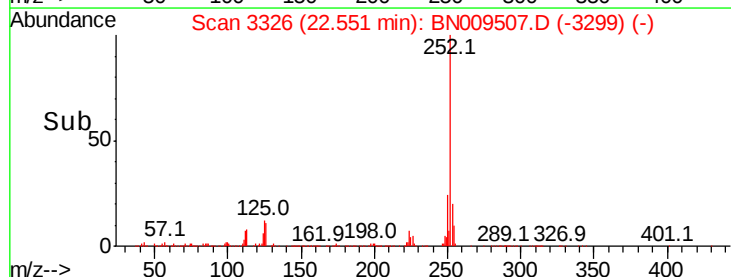
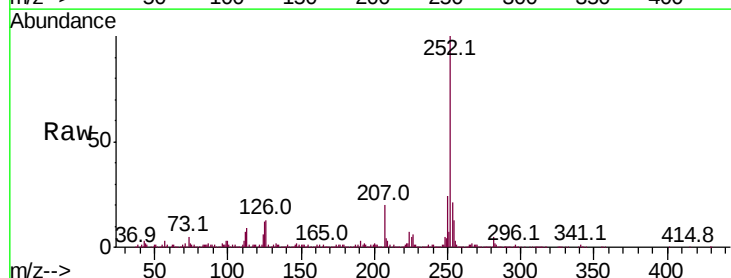
Instrument :  
BNA\_N  
ClientSampleId :

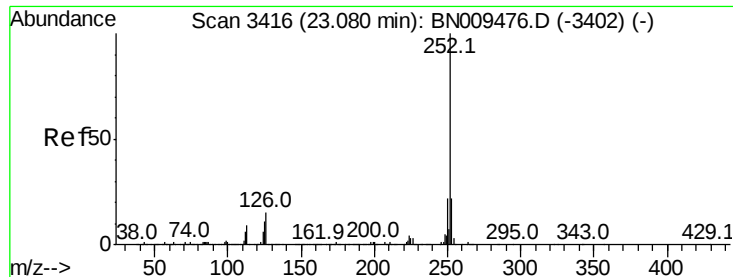
Tot Ion:252 Resp: 1118905  
Ion Ratio Lower Upper  
252 100  
253 21.3 16.5 24.7  
125 12.3 8.2 12.2#



#88  
Benzo(k)fluoranthene  
Concen: 22.646 ng/ul  
RT: 22.55 min Scan# 3326  
Delta R.T. -0.04 min  
Lab File: BN009507.D  
Acq: 31 Jan 2020 12:41

Tgt Ion:252 Resp: 1118905  
Ion Ratio Lower Upper  
252 100  
253 21.3 17.0 25.4  
125 12.3 7.8 11.8#





#90

Benzo(a)pyrene

Concen: 19.297 ng/ul

RT: 23.07 min Scan# 3415

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

Instrument :

BNA\_N

ClientSampleId :

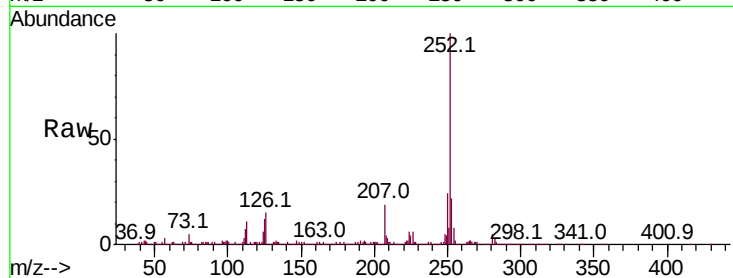
Tot Ion:252 Resp: 870343

Ion Ratio Lower Upper

252 100

253 22.0 18.0 27.0

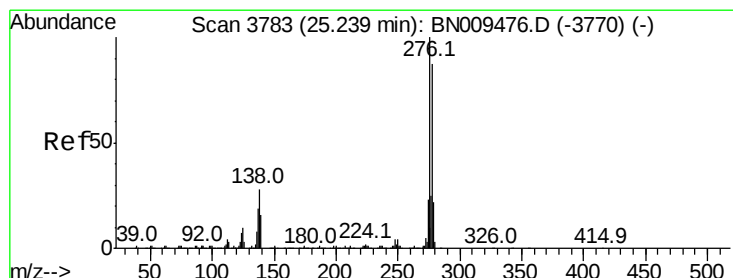
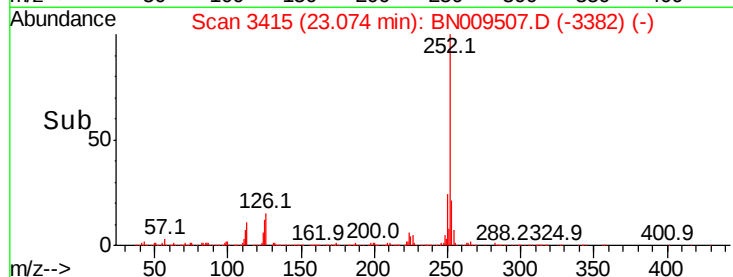
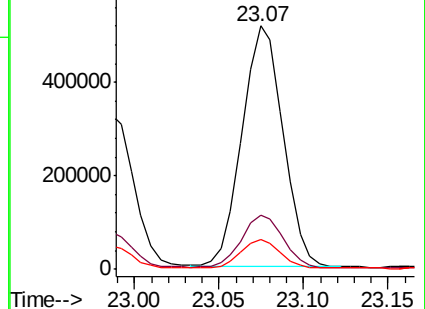
125 12.0 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Indeno(1,2,3-cd)pyrene

Concen: 7.091 ng/ul

RT: 25.23 min Scan# 3782

Delta R.T. -0.01 min

Lab File: BN009507.D

Acq: 31 Jan 2020 12:41

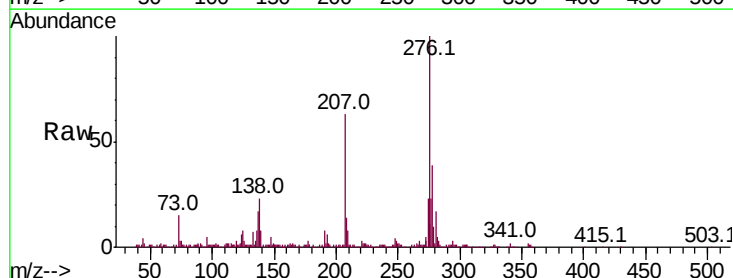
Tgt Ion:276 Resp: 387614

Ion Ratio Lower Upper

276 100

138 23.1 21.4 32.0

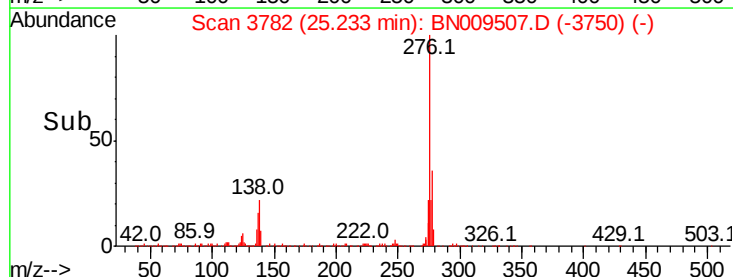
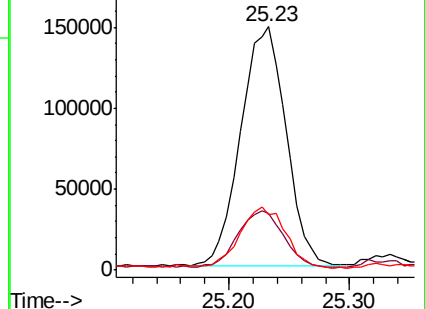
277 22.7 20.4 30.6

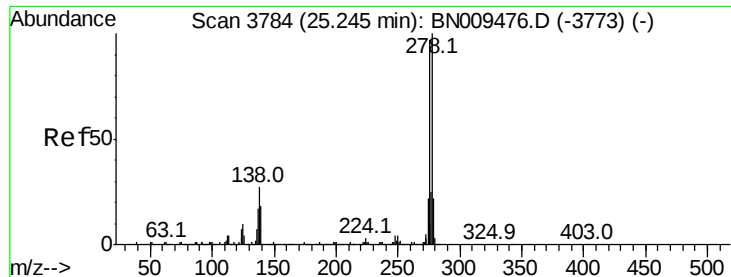


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

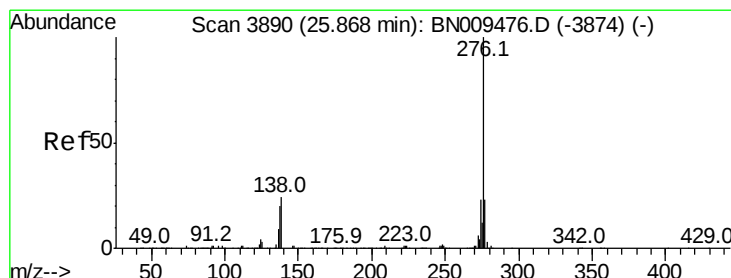
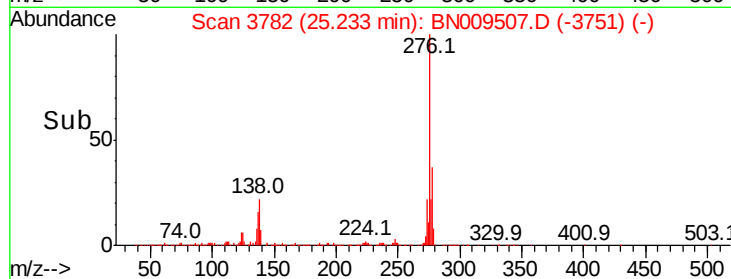
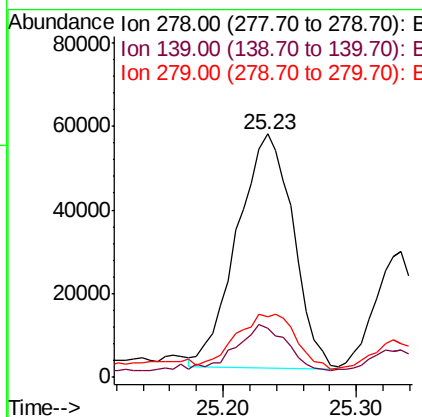
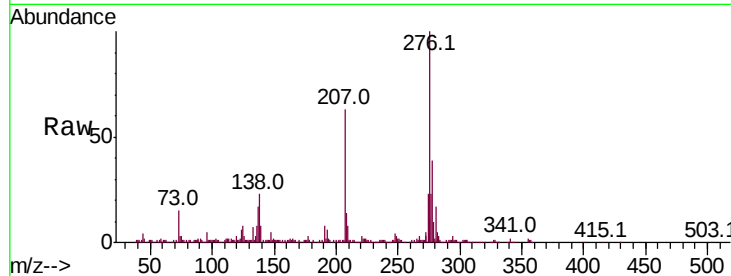




#92  
 Dibenzo(a,h)anthracene  
 Concen: 3.527 ng/ul  
 RT: 25.23 min Scan# 3782  
 Delta R.T. -0.02 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:278 Resp: 162641  
 Ion Ratio Lower Upper  
 278 100  
 139 20.3 13.9 20.9  
 279 25.1 19.3 28.9



#93  
 Benzo(g,h,i)perylene  
 Concen: 7.004 ng/ul  
 RT: 25.86 min Scan# 3888  
 Delta R.T. -0.02 min  
 Lab File: BN009507.D  
 Acq: 31 Jan 2020 12:41

Tgt Ion:276 Resp: 318438  
 Ion Ratio Lower Upper  
 276 100  
 138 22.3 16.6 24.8  
 277 23.9 18.7 28.1

