

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG110725\  
 Data File : BG064721.D  
 Acq On : 7 Nov 2025 18:15  
 Operator : RC/JU  
 Sample : Q3551-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MANHOLE

Quant Time: Nov 08 00:58:55 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG102425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 03 18:16:26 2025  
 Response via : Initial Calibration

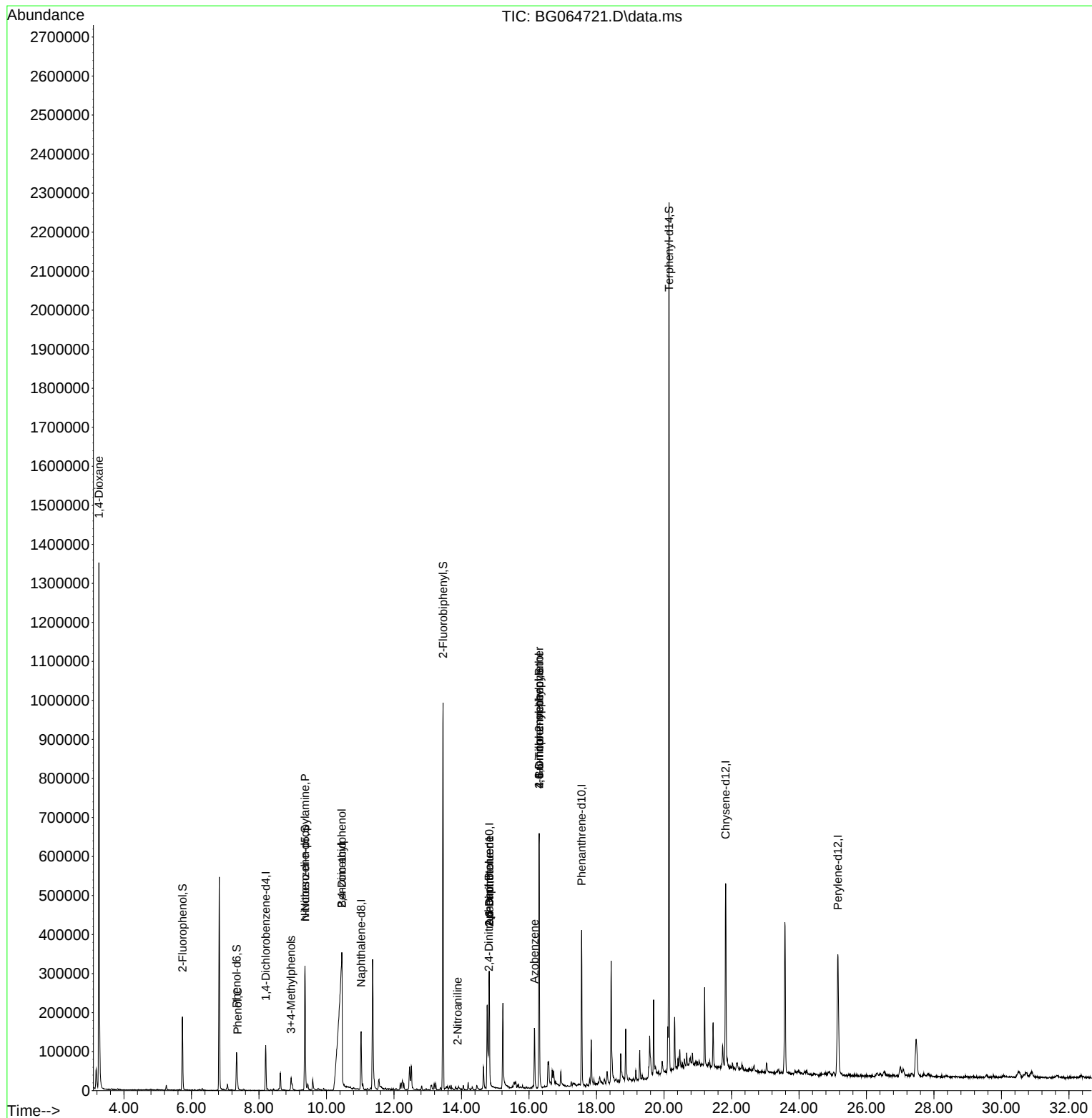
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.200  | 152  | 32143    | 20.000  | ng    | -0.02    |
| 21) Naphthalene-d8            | 11.027 | 136  | 129572   | 20.000  | ng    | -0.02    |
| 39) Acenaphthene-d10          | 14.822 | 164  | 106337   | 20.000  | ng    | -0.02    |
| 64) Phenanthrene-d10          | 17.560 | 188  | 265224   | 20.000  | ng    | #-0.02   |
| 76) Chrysene-d12              | 21.826 | 240  | 334889   | 20.000  | ng    | #-0.03   |
| 86) Perylene-d12              | 25.151 | 264  | 384191   | 20.000  | ng    | -0.05    |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.733  | 112  | 77114    | 40.269  | ng    | -0.02    |
| 7) Phenol-d6                  | 7.337  | 99   | 55048    | 20.949  | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 9.364  | 82   | 186672   | 86.531  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 16.303 | 330  | 158625   | 103.355 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 13.453 | 172  | 529460   | 75.470  | ng    | -0.02    |
| 79) Terphenyl-d14             | 20.151 | 244  | 1219626  | 68.728  | ng    | -0.02    |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.259  | 88   | 11183    | 13.190  | ng    | # 1      |
| 10) Phenol                    | 7.366  | 94   | 10509    | 3.616   | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 9.364  | 70   | 24783    | 13.647  | ng    | # 75     |
| 20) 3+4-Methylphenols         | 8.952  | 107  | 16009    | 5.900   | ng    | 92       |
| 27) 2,4-Dimethylphenol        | 10.457 | 122  | 441153   | 229.109 | ng    | # 1      |
| 32) Benzoic acid              | 10.457 | 122  | 441153   | 229.764 | ng    | 92       |
| 48) 2-Nitroaniline            | 13.882 | 65   | 84       | 3.266   | ng    | # 10     |
| 51) 2,6-Dinitrotoluene        | 14.822 | 165  | 14310    | 13.143  | ng    | # 19     |
| 54) 2,4-Dinitrophenol         | 14.810 | 184  | 86       | 5.669   | ng    | # 21     |
| 57) 2,4-Dinitrotoluene        | 14.822 | 165  | 14310    | 9.506   | ng    | # 22     |
| 63) Azobenzene                | 16.162 | 77   | 41596    | 5.457   | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 16.303 | 198  | 418      | 5.744   | ng    | 81       |
| 67) 4-Bromophenyl-phenylether | 16.303 | 248  | 10314    | 3.282   | ng    | # 1      |
| -----                         |        |      |          |         |       |          |

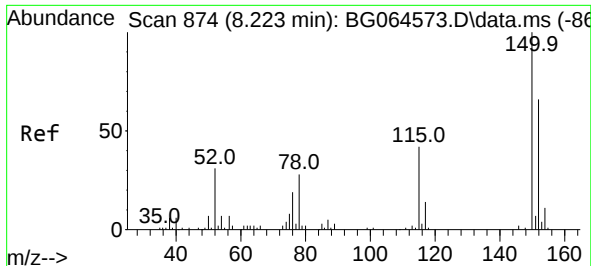
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG110725\  
Data File : BG064721.D  
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Sample : Q3551-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

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BNA\_G  
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Quant Time: Nov 08 00:58:55 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG102425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 03 18:16:26 2025  
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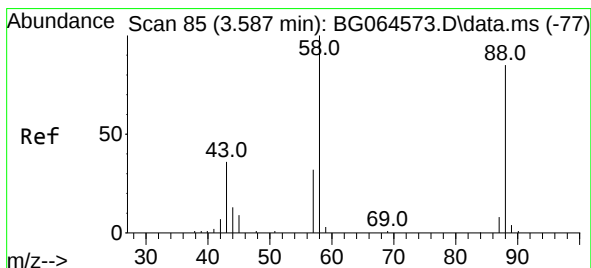
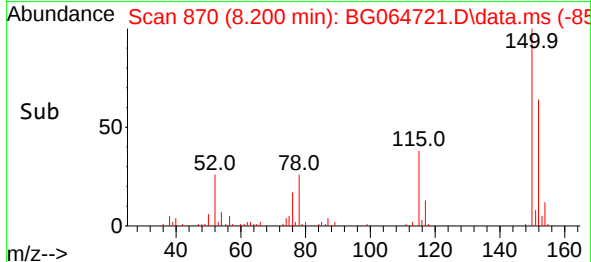
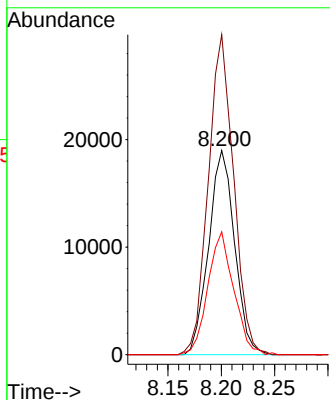
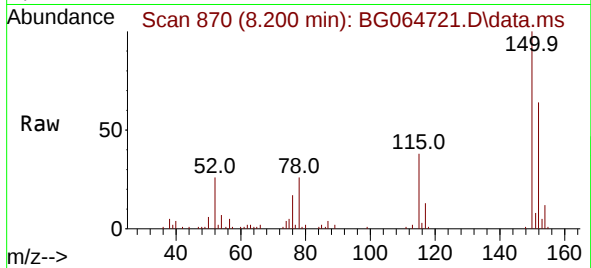




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.200 min Scan# 81  
Delta R.T. -0.023 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

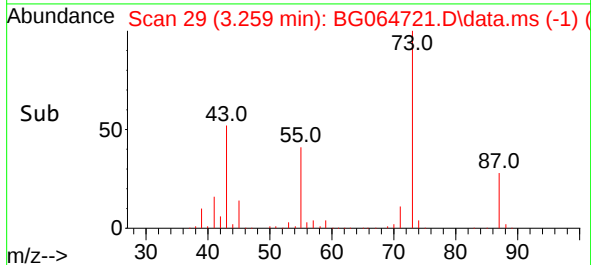
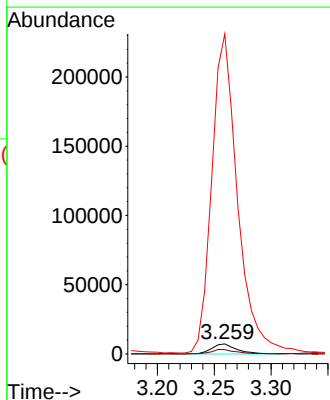
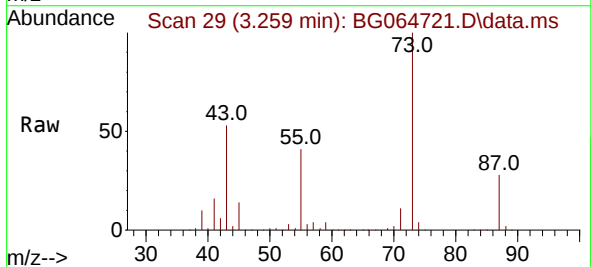
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

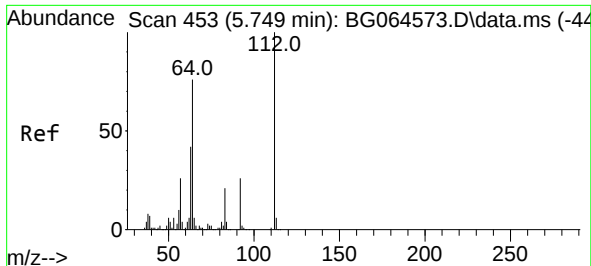
Tgt Ion:152 Resp: 32143  
Ion Ratio Lower Upper  
152 100  
150 156.7 122.2 183.4  
115 60.2 50.8 76.2



#2  
1,4-Dioxane  
Concen: 13.190 ng  
RT: 3.259 min Scan# 29  
Delta R.T. -0.328 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion: 88 Resp: 11183  
Ion Ratio Lower Upper  
88 100  
58 46.0 92.4 138.6#  
43 3265.0 33.0 49.6#

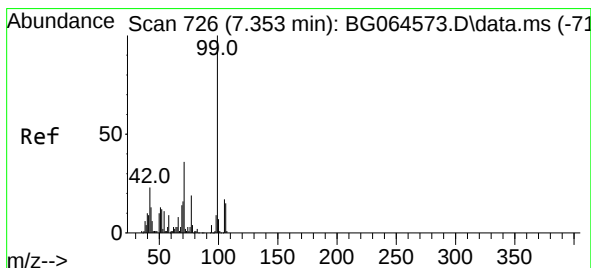
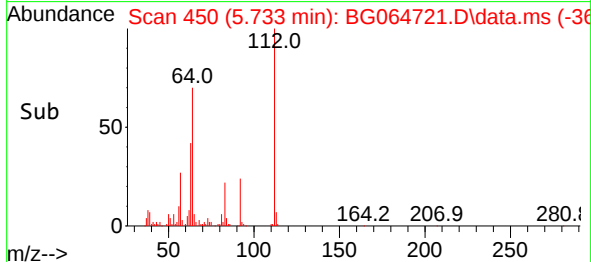
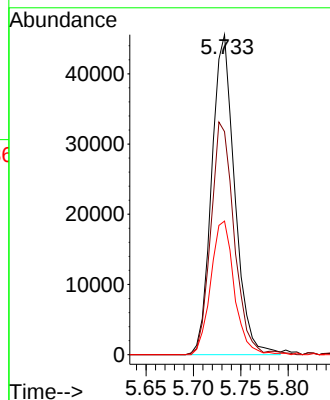
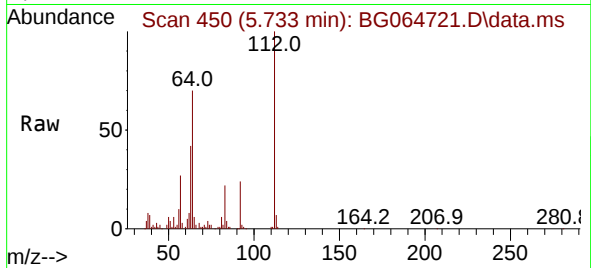




#5  
2-Fluorophenol  
Concen: 40.269 ng  
RT: 5.733 min Scan# 41  
Delta R.T. -0.017 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

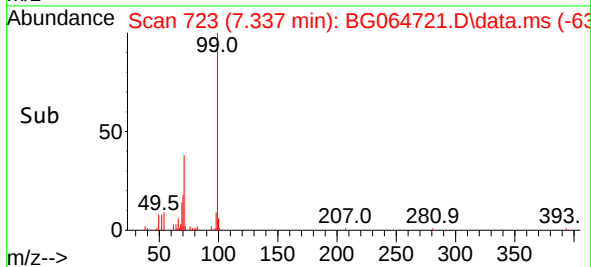
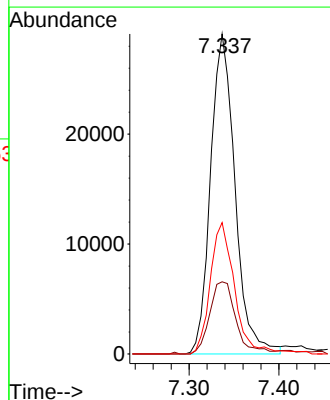
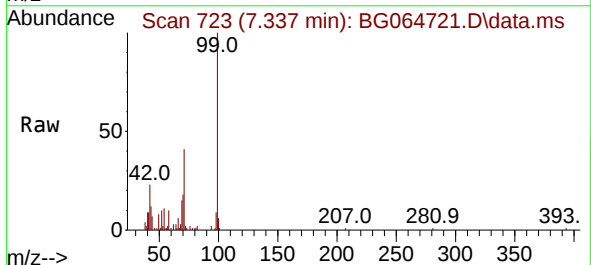
Instrument :  
BNA\_G  
ClientSampleId :  
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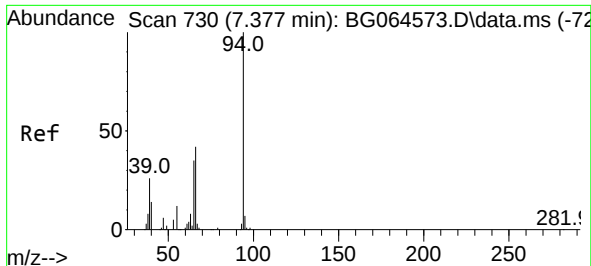
Tgt Ion:112 Resp: 77114  
Ion Ratio Lower Upper  
112 100  
64 69.7 60.7 91.1  
63 41.7 33.4 50.0



#7  
Phenol-d6  
Concen: 20.949 ng  
RT: 7.337 min Scan# 723  
Delta R.T. -0.017 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion: 99 Resp: 55048  
Ion Ratio Lower Upper  
99 100  
42 22.5 18.3 27.5  
71 41.1 28.6 43.0

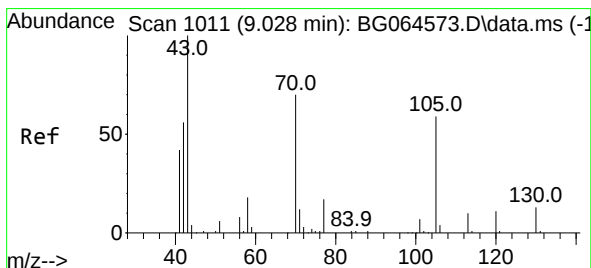
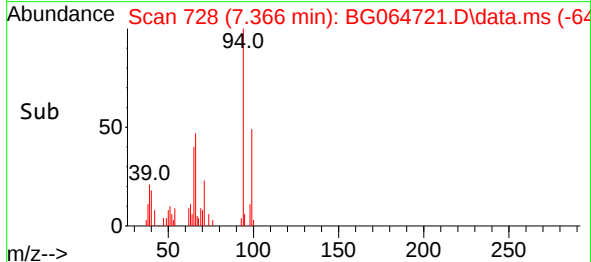
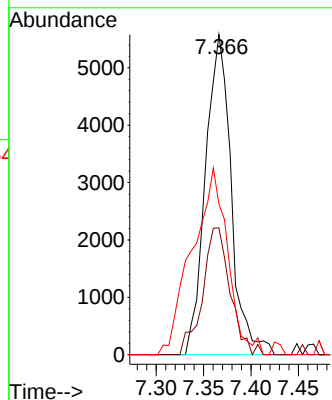
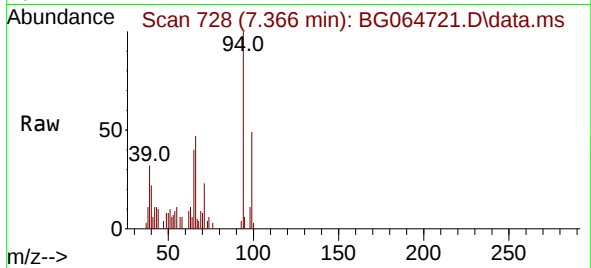




#10  
Phenol  
Concen: 3.616 ng  
RT: 7.366 min Scan# 71  
Delta R.T. -0.011 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

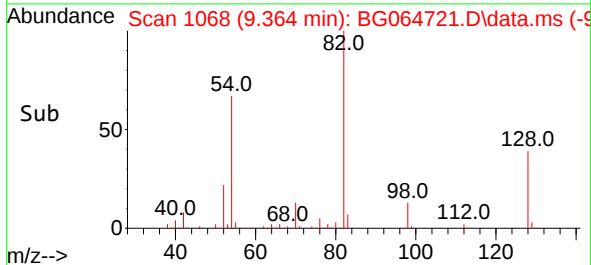
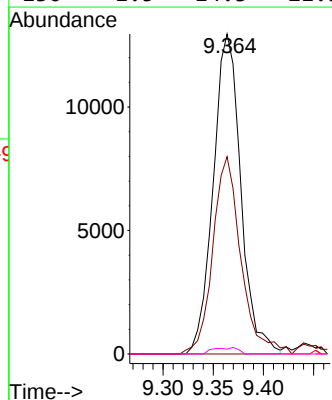
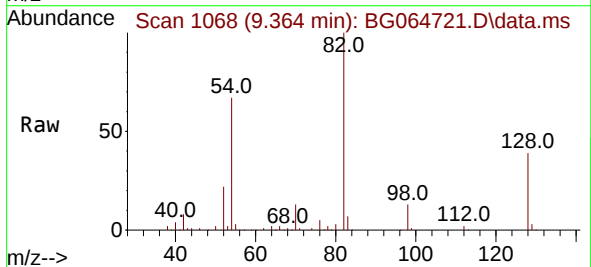
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

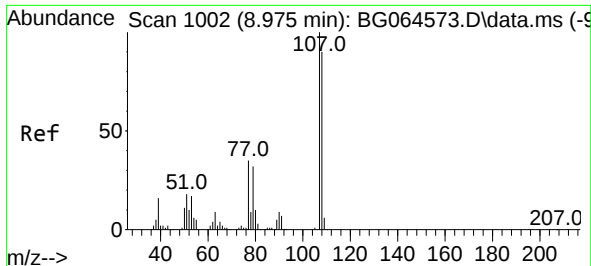
Tgt Ion: 94 Resp: 10509  
Ion Ratio Lower Upper  
94 100  
65 39.6 15.8 55.8  
66 47.1 24.0 64.0



#19  
n-Nitroso-di-n-propylamine  
Concen: 13.647 ng  
RT: 9.364 min Scan# 1068  
Delta R.T. 0.336 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion: 70 Resp: 24783  
Ion Ratio Lower Upper  
70 100  
42 61.7 65.2 97.8#  
101 0.0 7.9 11.9#  
130 1.5 14.3 21.5#

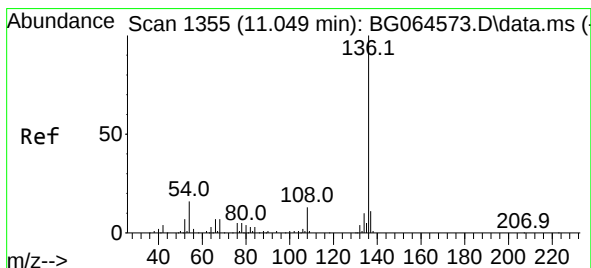
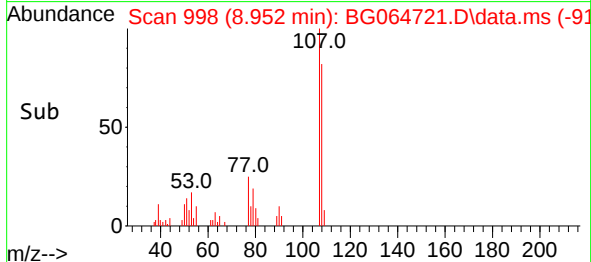
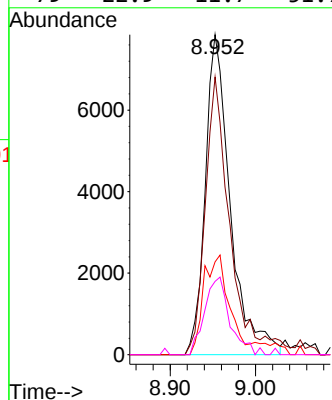
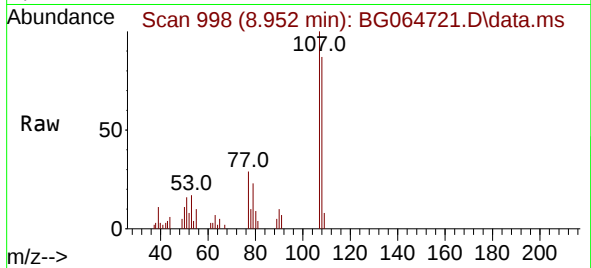




#20  
3+4-Methylphenols  
Concen: 5.900 ng  
RT: 8.952 min Scan# 91  
Delta R.T. -0.022 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

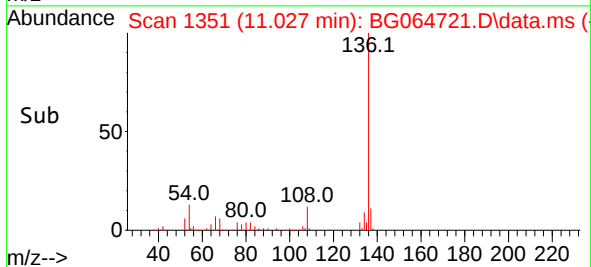
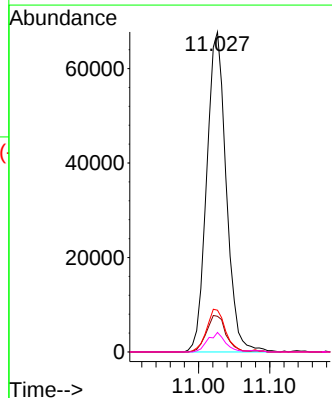
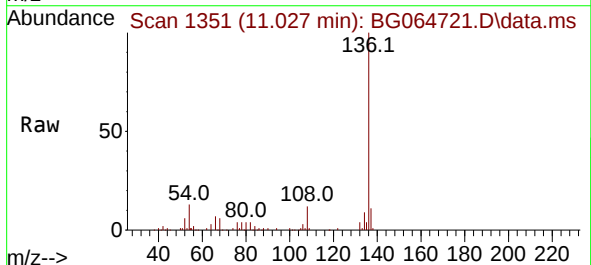
Instrument :  
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ClientSampleId :  
MANHOLE

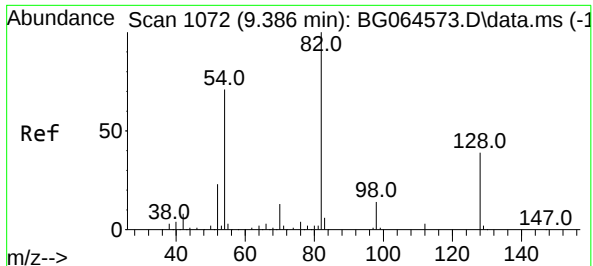
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:107 | Resp: | 16009 |       |
| Ion         | Ratio | Lower | Upper |
| 107         | 100   |       |       |
| 108         | 86.7  | 70.3  | 110.3 |
| 77          | 29.0  | 14.6  | 54.6  |
| 79          | 22.9  | 11.7  | 51.7  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.027 min Scan# 1351  
Delta R.T. -0.022 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:136 | Resp: | 129572 |
| Ion | Ratio   | Lower | Upper  |
| 136 | 100     |       |        |
| 137 | 11.1    | 9.2   | 13.8   |
| 54  | 13.6    | 12.6  | 19.0   |
| 68  | 6.1     | 5.7   | 8.5    |





#23

Nitrobenzene-d5

Concen: 86.531 ng

RT: 9.364 min Scan# 1068

Delta R.T. -0.022 min

Lab File: BG064721.D

Acq: 7 Nov 2025 18:15

Instrument :

BNA\_G

ClientSampleId :

MANHOLE

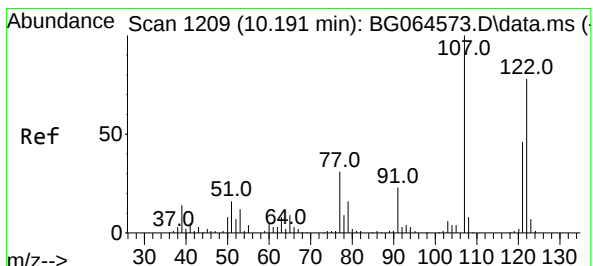
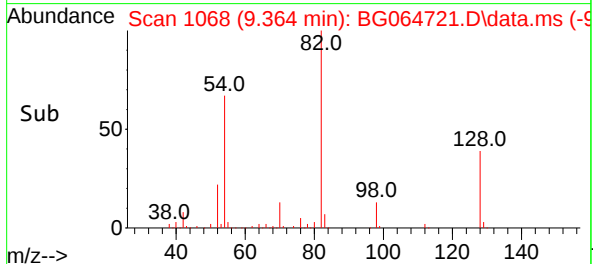
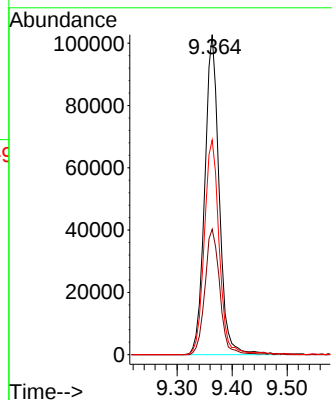
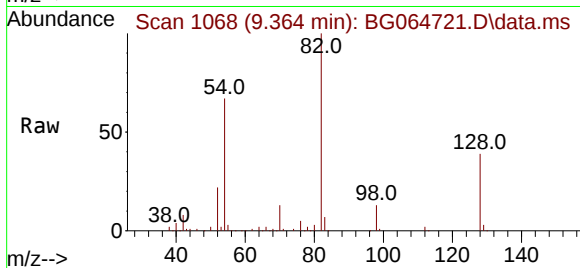
Tgt Ion: 82 Resp: 186672

Ion Ratio Lower Upper

82 100

128 39.2 31.3 46.9

54 67.1 56.6 84.8



#27

2,4-Dimethylphenol

Concen: 229.109 ng

RT: 10.457 min Scan# 1254

Delta R.T. 0.266 min

Lab File: BG064721.D

Acq: 7 Nov 2025 18:15

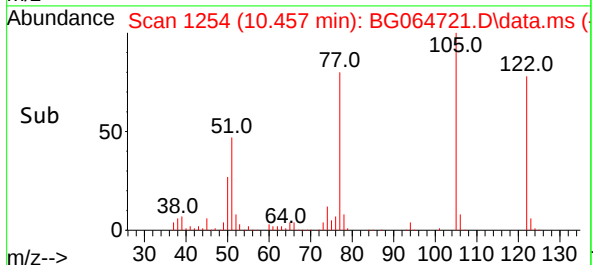
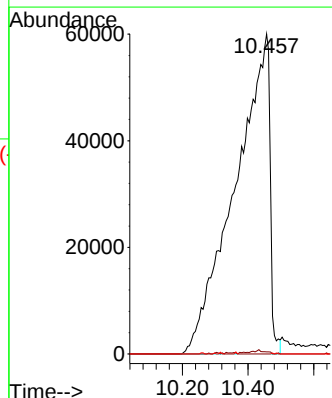
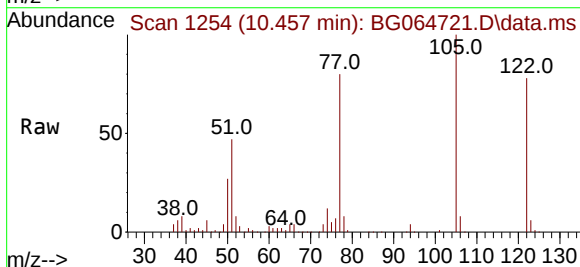
Tgt Ion:122 Resp: 441153

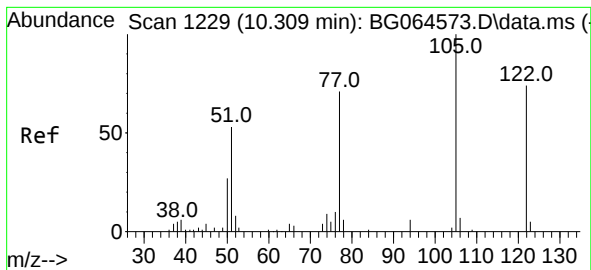
Ion Ratio Lower Upper

122 100

107 0.6 103.0 154.4#

121 0.0 47.8 71.8#

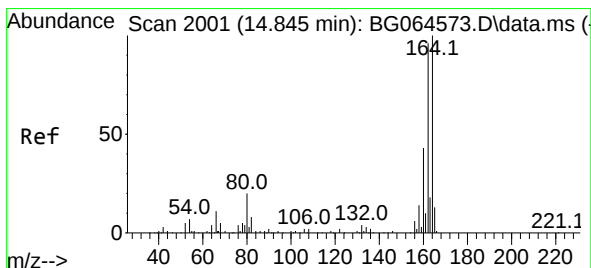
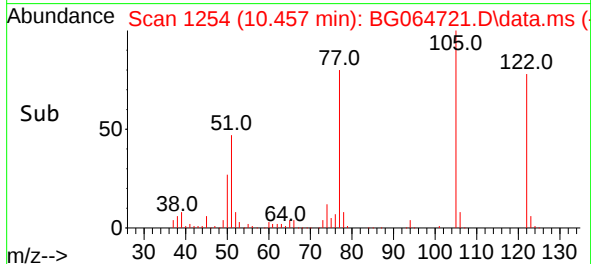
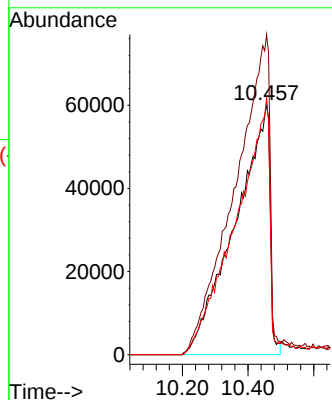
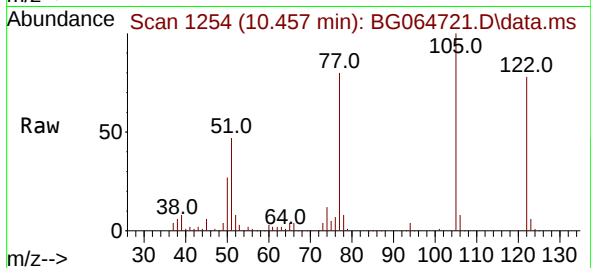




#32  
Benzoic acid  
Concen: 229.764 ng  
RT: 10.457 min Scan# 11  
Delta R.T. 0.148 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

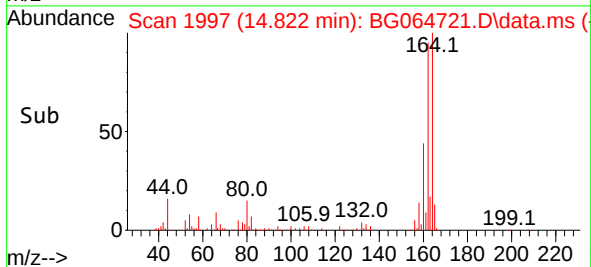
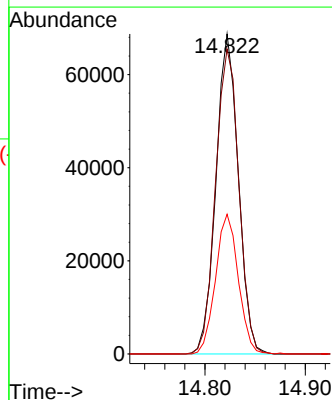
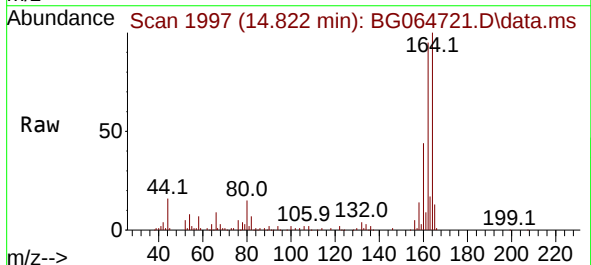
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

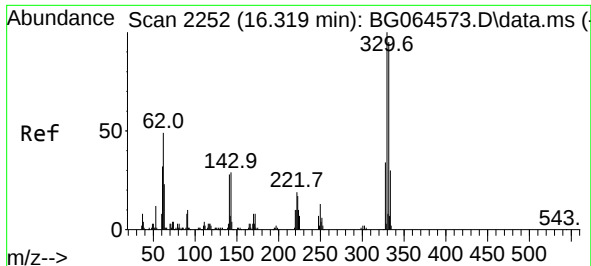
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Ion Ratio Lower Upper  
122 100  
105 128.2 104.2 144.2  
77 103.1 70.2 110.2



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.822 min Scan# 1997  
Delta R.T. -0.022 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion:164 Resp: 106337  
Ion Ratio Lower Upper  
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162 95.2 77.0 115.6  
160 43.7 34.4 51.6

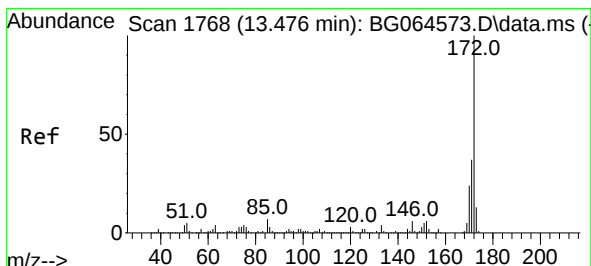
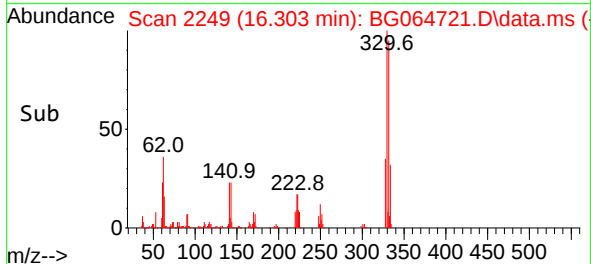
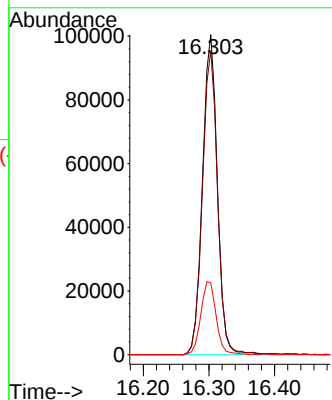
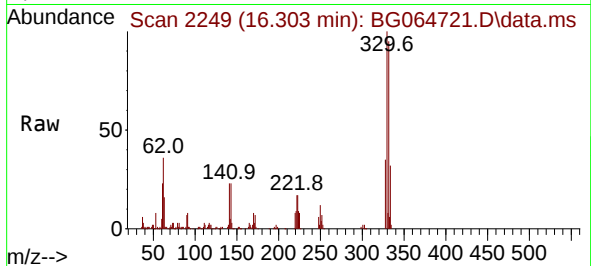




#42  
2,4,6-Tribromophenol  
Concen: 103.355 ng  
RT: 16.303 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

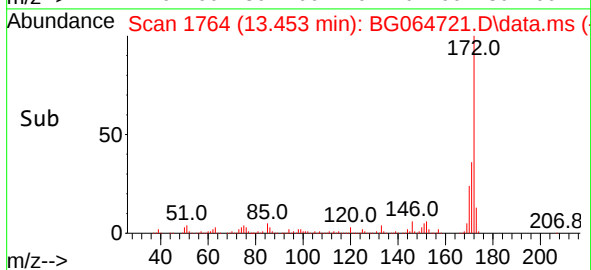
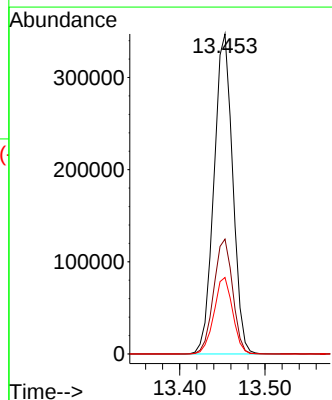
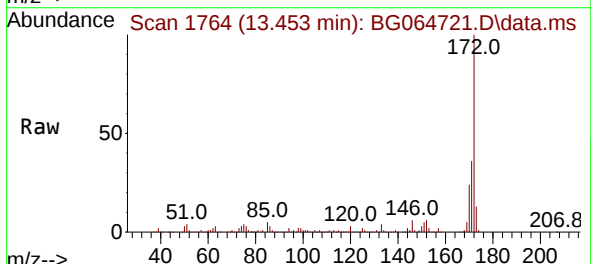
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

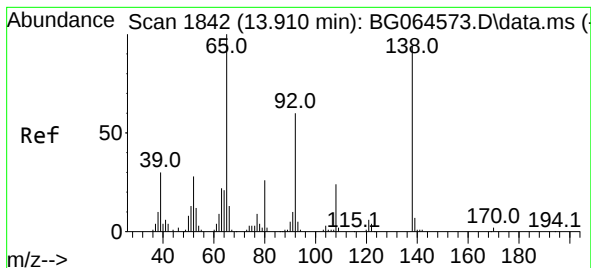
Tgt Ion:330 Resp: 158625  
Ion Ratio Lower Upper  
330 100  
332 96.4 78.0 117.0  
141 23.5 21.8 32.6



#45  
2-Fluorobiphenyl  
Concen: 75.470 ng  
RT: 13.453 min Scan# 1764  
Delta R.T. -0.022 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion:172 Resp: 529460  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.4 44.0  
170 23.9 19.1 28.7

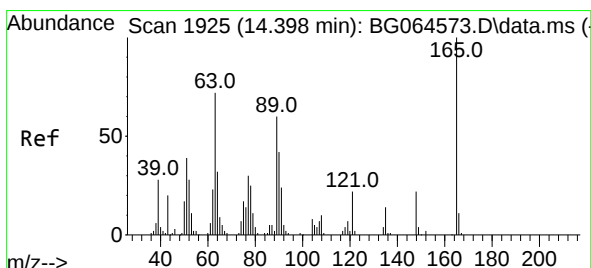
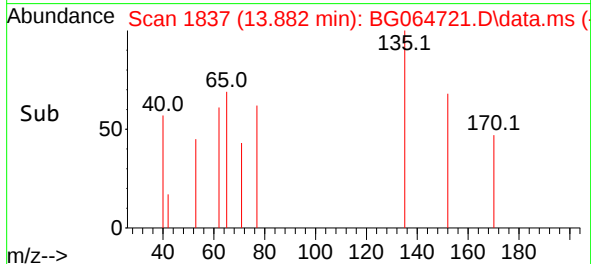
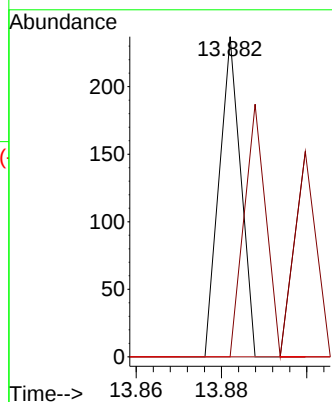
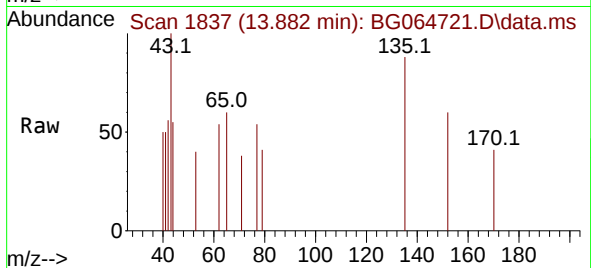




#48  
2-Nitroaniline  
Concen: 3.266 ng  
RT: 13.882 min Scan# 11  
Delta R.T. -0.028 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

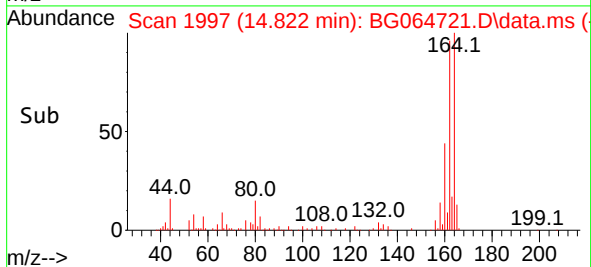
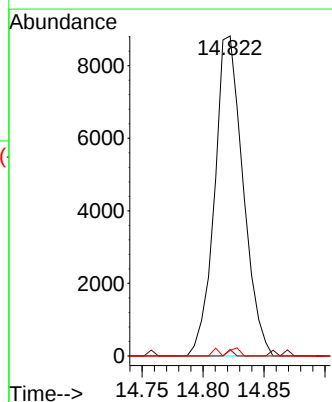
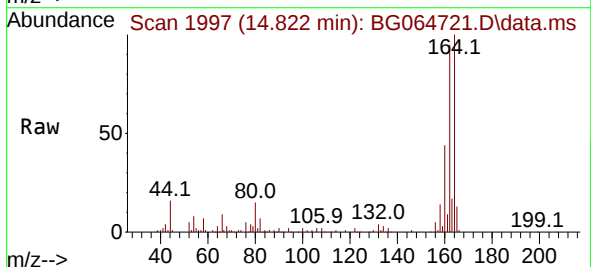
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

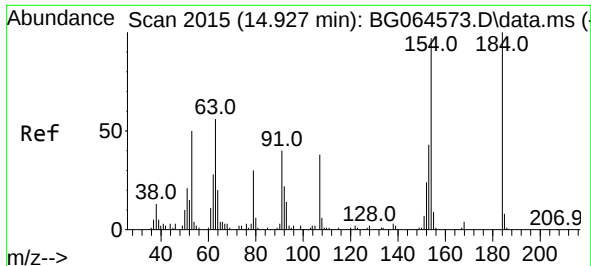
Tgt Ion: 65 Resp: 84  
Ion Ratio Lower Upper  
65 100  
92 0.0 48.3 72.5#  
138 0.0 74.9 112.3#



#51  
2,6-Dinitrotoluene  
Concen: 13.143 ng  
RT: 14.822 min Scan# 1997  
Delta R.T. 0.424 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion:165 Resp: 14310  
Ion Ratio Lower Upper  
165 100  
63 2.0 57.4 86.0#  
89 1.7 47.8 71.8#

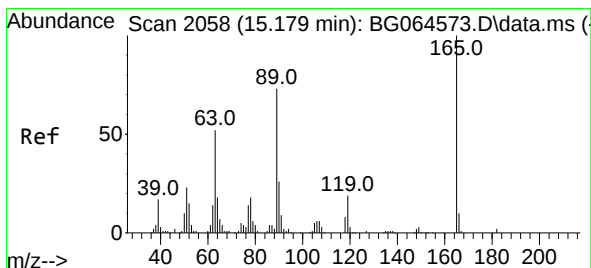
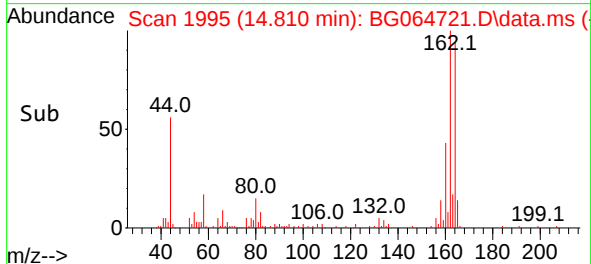
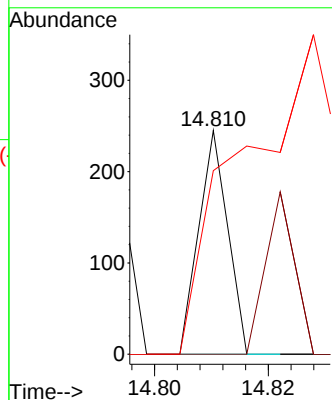
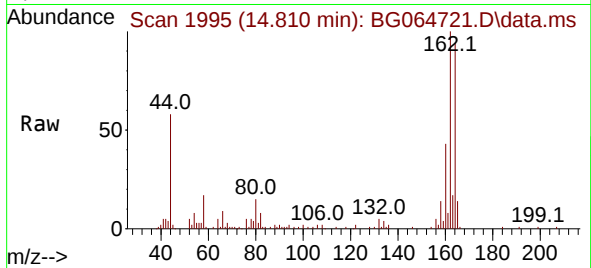




#54  
2,4-Dinitrophenol  
Concen: 5.669 ng  
RT: 14.810 min Scan# 1995  
Delta R.T. -0.117 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

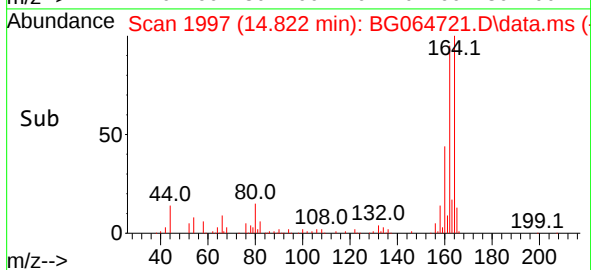
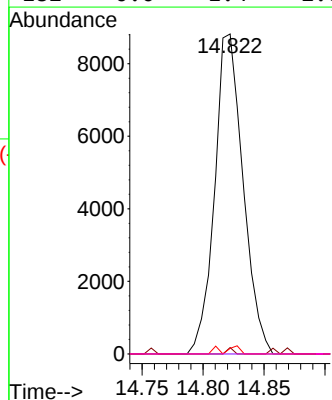
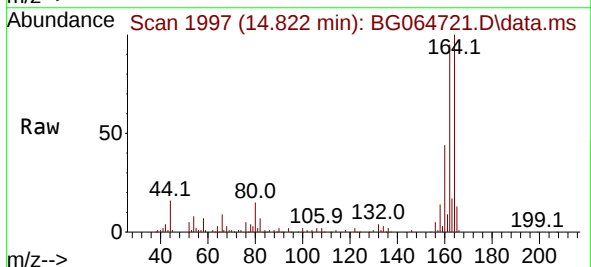
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

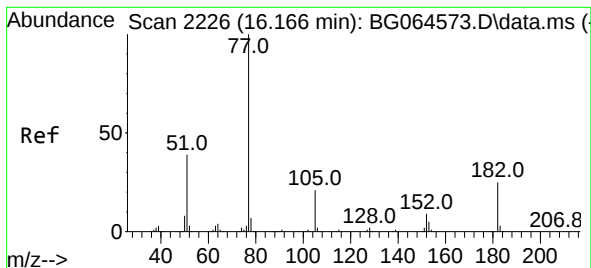
Tgt Ion:184 Resp: 86  
Ion Ratio Lower Upper  
184 100  
63 0.0 56.6 85.0#  
154 82.0 158.6 238.0#



#57  
2,4-Dinitrotoluene  
Concen: 9.506 ng  
RT: 14.822 min Scan# 1997  
Delta R.T. -0.357 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion:165 Resp: 14310  
Ion Ratio Lower Upper  
165 100  
63 2.0 41.8 62.8#  
89 1.7 58.1 87.1#  
182 0.0 1.4 2.0#





#63

Azobenzene

Concen: 5.457 ng

RT: 16.162 min Scan# 21

Delta R.T. -0.005 min

Lab File: BG064721.D

Acq: 7 Nov 2025 18:15

Instrument :

BNA\_G

ClientSampleId :

MANHOLE

Tgt Ion: 77 Resp: 41596

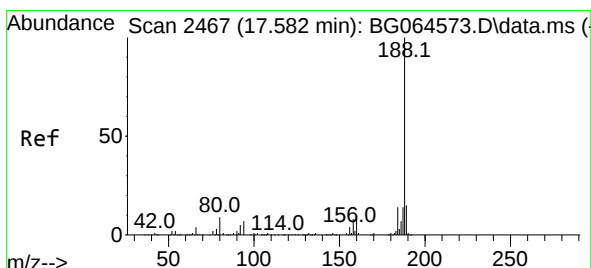
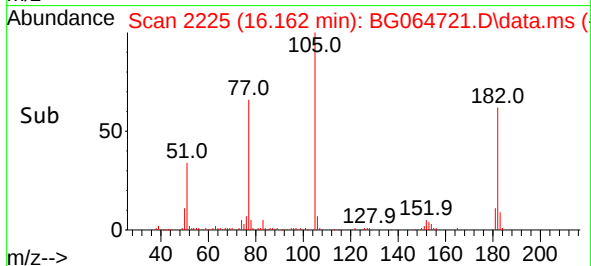
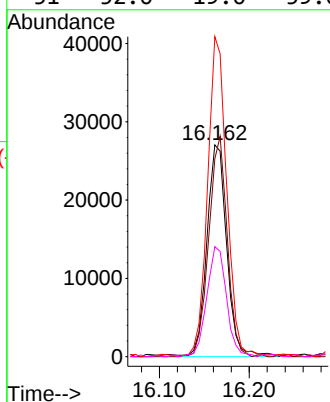
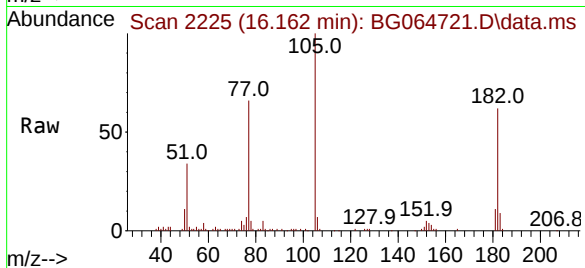
Ion Ratio Lower Upper

77 100

182 93.4 4.9 44.9#

105 151.1 1.3 41.3#

51 52.0 19.0 59.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.560 min Scan# 2463

Delta R.T. -0.022 min

Lab File: BG064721.D

Acq: 7 Nov 2025 18:15

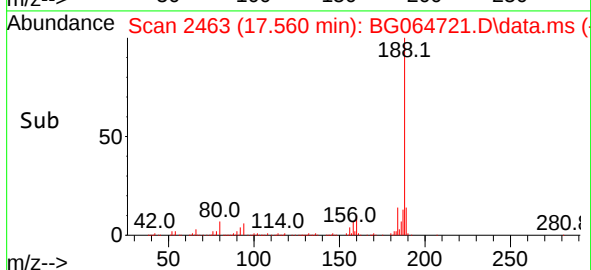
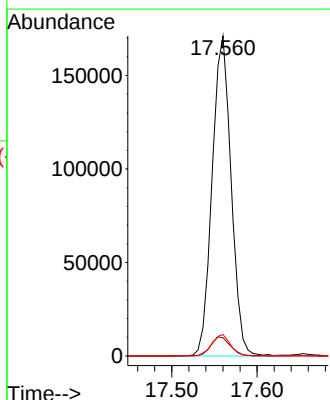
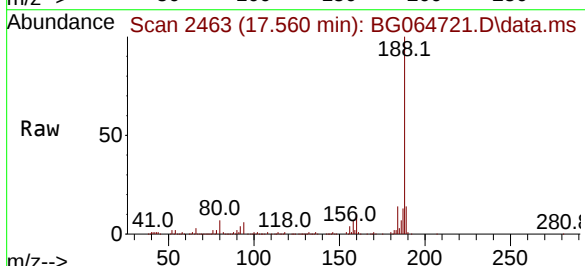
Tgt Ion:188 Resp: 265224

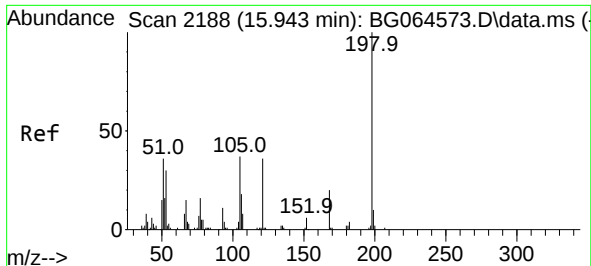
Ion Ratio Lower Upper

188 100

94 5.7 5.7 8.5

80 6.7 6.8 10.2#

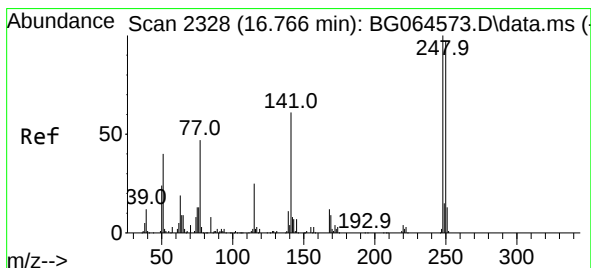
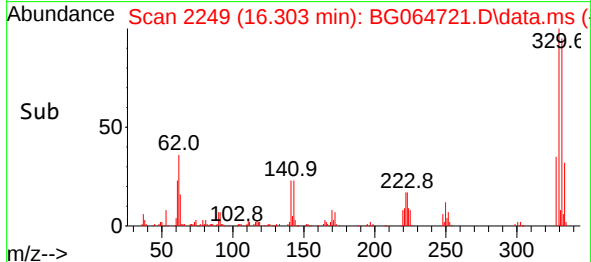
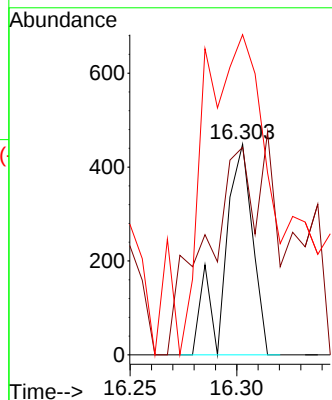
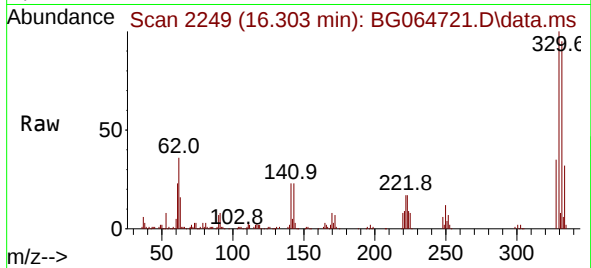




#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.744 ng  
RT: 16.303 min Scan# 2188  
Delta R.T. 0.360 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

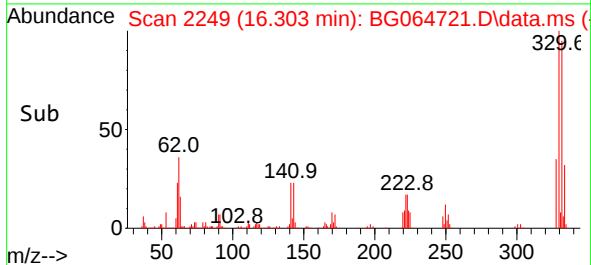
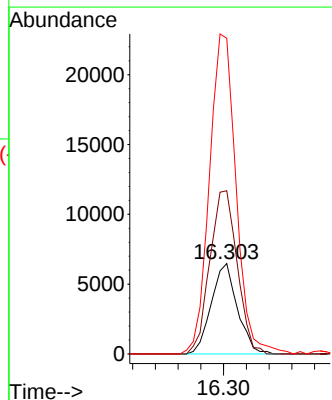
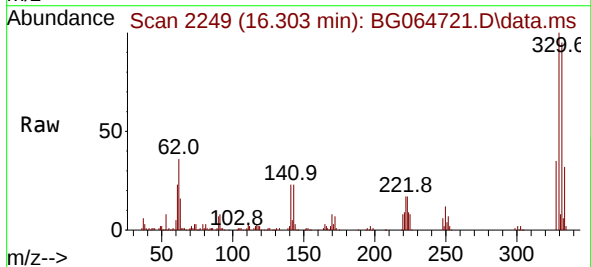
Instrument :  
BNA\_G  
ClientSampleId :  
MANHOLE

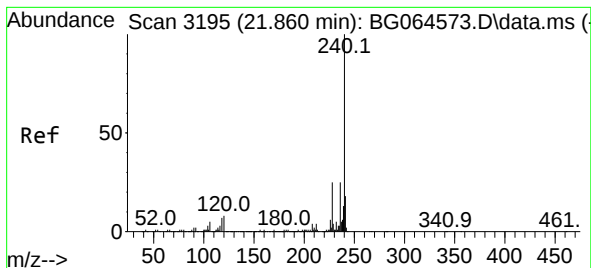
Tgt Ion:198 Resp: 418  
Ion Ratio Lower Upper  
198 100  
51 31.0 24.7 64.7  
105 47.9 18.0 58.0



#67  
4-Bromophenyl-phenylether  
Concen: 3.282 ng  
RT: 16.303 min Scan# 2249  
Delta R.T. -0.463 min  
Lab File: BG064721.D  
Acq: 7 Nov 2025 18:15

Tgt Ion:248 Resp: 10314  
Ion Ratio Lower Upper  
248 100  
250 180.4 77.7 116.5#  
141 348.9 48.6 72.8#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.826 min Scan# 31

Delta R.T. -0.034 min

Lab File: BG064721.D

Acq: 7 Nov 2025 18:15

Instrument :

BNA\_G

ClientSampleId :

MANHOLE

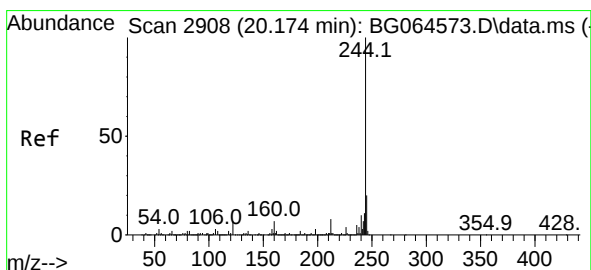
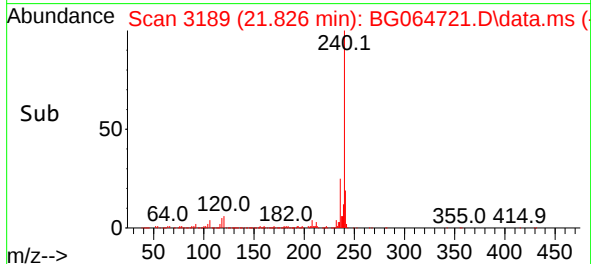
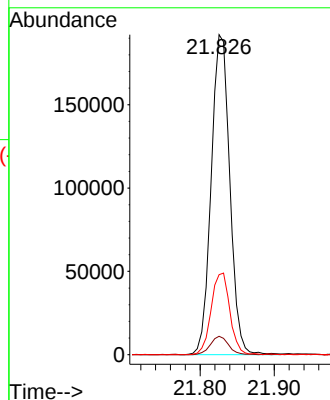
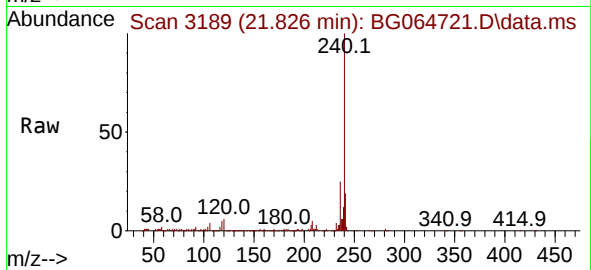
Tgt Ion:240 Resp: 334889

Ion Ratio Lower Upper

240 100

120 5.8 6.5 9.7#

236 25.0 20.2 30.2



#79

Terphenyl-d14

Concen: 68.728 ng

RT: 20.151 min Scan# 2904

Delta R.T. -0.022 min

Lab File: BG064721.D

Acq: 7 Nov 2025 18:15

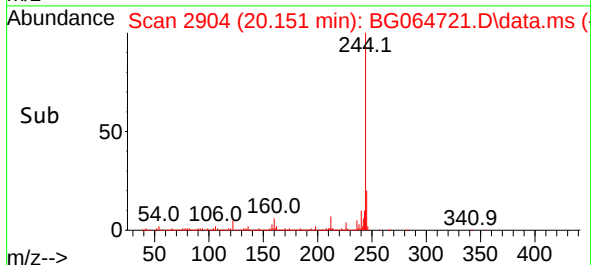
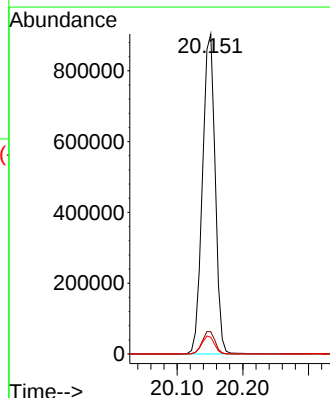
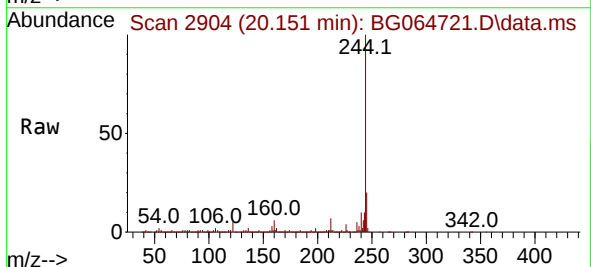
Tgt Ion:244 Resp: 1219626

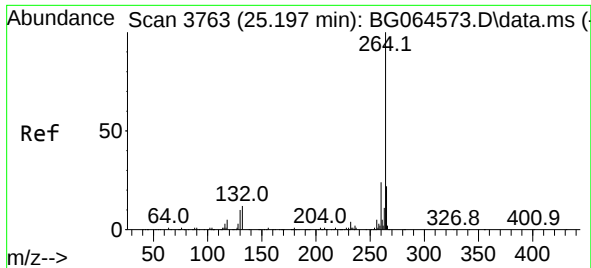
Ion Ratio Lower Upper

244 100

212 6.9 6.1 9.1

122 5.3 5.6 8.4#





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.151 min Scan# 31  
 Delta R.T. -0.046 min  
 Lab File: BG064721.D  
 Acq: 7 Nov 2025 18:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MANHOLE

Tgt Ion:264 Resp: 384191  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 19.0  | 28.4  |
| 265 | 22.2  | 17.6  | 26.4  |

