GRD Fin $=$ final \% grade $=[(($ ave $\%$ click $) * 0.10)+(($ MidFinAve $) * 0.30)+(($ RPT lab ave \%)*0.60) $]$ (this grade calculation is exactly as described in your syllabus)
ave \% click is the average of your clicker grades, the dropped clicker is shown with an " x "
MidFinAve = average of your midterm and final exam, the higher of grade - 10\% and actual grade was used for your midterm and final exam grade RPT lab ave $\%=$ the average of all of your lab reports, the lowest of the lab reports was dropped, shown with an "x"
Lett Fin was assigned as ( $90 \%$ and above for the GRD Fin column) is $A,(80 \%$ and above) is B, C dropped down quite a bit. I used normal round up rules but The $A / B$ and $B / C$ lines were very firm (as I said I would do in the syllabus). If you had an excused absence, the deadline was the last day of classes $-I$ actually accepted excuses until the last day of lecture class. The exucuses were posted on the bulletin board for about 1.5 weeks so you should have seen the "ex" posting. I have documentation of what grades were submitted by your teaching assistant because they all were required to email their excel spreadsheets. I did not adjust your TA submitted grades at all because by the end of the semester the averages were almost identical. (even though the averages started out with nearly a 20 point difference at the beginning of the semester.) If your TA did not submit a grade for you and did not email me a change of grade you got the grade which I received from your TA. Obviously I am not going to make up grades which your TA did not submit to me.
Everything was posted on the bulletin board earlier except for the excused absence calculation and the dropping of your clicker and lowest lab report grade. The only grade supplied by your TA are the lab report grades. Your clicker quiz grades, your Lab Midterm and your Lab Final exam grades are from me. ( $60 \%$ lab report grades, $10 \%$ clicker quiz grade, $30 \%$ lab midterm and lab final exam combined - the ratio was the same as from the syllabus from the last $\sim 15$ years)

I enjoyed teaching you this semester and best wishes.
posted by Dr. Hahn 5/20/16

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | RPT |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | click | click | click | click | click | click | click | click | click | ave | mid | final | MidFin | recrst | extra | MM | chrom | GC | oxid | NMR | UnKn | E2 | lab | GRD | Lett |
| pin | 2/1 | 2/8 | 2/15 | 2/22 | 2/29 | 3_21 | 4_4 | 4_11 | 4_18 | \% clic | count | counte | Ave | sum | sum | sum | sum | sum | sum | sum | sum | sum | ave \% | Fin | Fin |
| 0107 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | x0 | 8.3 | 7.5 | 10.0 | 94.8 | 86.0 | 76.0 | 81.0 | 82.5 | 94.5 | 94.0 | 95.0 | 93.0 | 91.0 | 97.0 | 95.0 | x84 | 92.8 | 89.4 | B |
| 0125 | 7.5 | 7.5 | 10.0 | 7.5 | 10.0 | 10.0 | 8.3 | 5.9 | x0 | 83.4 | 77.0 | 87.0 | 82.0 | 76.0 | 95.5 | 90.0 | 90.0 | 100.0 | 94.0 | 93.0 | 90.0 | $\times 0$ | 91.1 | 87.6 | B |
| 0329 | 10.0 | 10.0 | 7.5 | 10.0 | 10.0 | 10.0 | 8.3 | x7.5 | 10.0 | 94.8 | 85.5 | 88.5 | 87.0 | 90.0 | 100.0 | 92.0 | 96.0 | 100.0 | 98.0 | x91 | 100.0 | 97.0 | 96.6 | 93.6 | A |
| 0422 | 10.0 | 10.0 | 5.0 | 8.8 | 10.0 | 8.3 | 6.7 | $\times 5$ | 7.5 | 82.8 | 79.0 | 69.0 | 74.0 | 91.0 | 94.5 | 96.0 | 95.0 | 97.0 | 96.0 | 92.0 | 95.0 | x90 | 94.6 | 87.2 | B |
| 0517 | 10.0 | 10.0 | 7.5 | x6.25 | 10.0 | 10.0 | 6.7 | 7.5 | 10.0 | 89.6 | 73.5 | 63.5 | 68.5 | 79.5 | 96.5 | 90.0 | 90.0 | 100.0 | 84.0 | 94.0 | x75 | 89.0 | 90.4 | 83.7 | B |
| 0748 | 10.0 | 10.0 | 7.5 | 7.5 | 8.8 | 10.0 | 6.7 | x5 | 10.0 | 88.0 | 73.0 | 72.5 | 72.8 | 83.5 | 91.0 | 92.0 | 86.0 | 98.0 | 82.0 | 20.0 | 94.0 | $\times 20$ | 80.8 | 79.1 | C |
| 0818 | 10.0 | 10.0 | 7.5 | 8.8 | 10.0 | 8.3 | 8.3 | 10.0 | $\times 7.5$ | 91.1 | 75.0 | 78.0 | 76.5 | 94.5 | 87.0 | 92.0 | 90.0 | 99.0 | 90.0 | 97.0 | x78 | 91.0 | 92.6 | 87.6 | B |
| 0830 | 10.0 | 10.0 | 5.0 | x0 | 10.0 | 10.0 | 6.7 | 7.5 | 7.5 | 83.3 | 82.5 | 92.5 | 87.5 | 93.0 | 89.5 | 88.0 | 90.0 | 100.0 | 89.0 | 89.0 | x80 | 98.0 | 92.1 | 89.8 | A |
| 0924 | 7.5 | 7.5 | 7.5 | 7.5 | 10.0 | 8.3 | 8.3 | x7.5 | 7.5 | 80.2 | 65.0 | 72.0 | 68.5 | x0 | 81.5 | 76.0 | 92.0 | 100.0 | 86.5 | 94.0 | 65.0 | 84.5 | 84.9 | 79.5 | B |
| 1001 | 10.0 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | 8.3 | x7.5 | 10.0 | 96.3 | 95.5 | 100.0 | 97.8 | 96.5 | 96.5 | 96.0 | 98.0 | 99.0 | 96.0 | 96.0 | 100.0 | $\times 20$ | 97.3 | 97.3 | A |
| 1022 | 10.0 | 10.0 | 7.5 | 7.5 | 10.0 | 10.0 | 8.3 | 7.5 | x5 | 88.5 | 70.5 | 80.5 | 75.5 | 90.0 | 96.5 | 94.0 | 98.0 | 100.0 | $\times 89$ | 97.0 | 100.0 | 97.0 | 96.6 | 89.4 | B |
| 1023 | 10.0 | 10.0 | 10.0 | 7.5 | 10.0 | 10.0 | $\times 6.65$ | 7.5 | 10.0 | 93.7 | 86.0 | 93.0 | 89.5 | 96.0 | 96.5 | 84.0 | 100.0 | 100.0 | 89.0 | 95.0 | 100.0 | x83 | 95.1 | 93.3 | A |
| 1028 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | $\times 6.65$ | 7.5 | 10.0 | 96.9 | 88.0 | 87.0 | 87.5 | 91.0 | 95.0 | 90.0 | 95.0 | 97.0 | 94.0 | 95.0 | 100.0 | x84 | 94.6 | 92.7 | A |
| 1111 | 10.0 | 7.5 | 10.0 | 10.0 | 10.0 | 10.0 | 8.3 | $\times 7.5$ | 10.0 | 94.8 | 83.5 | 73.5 | 78.5 | 100.0 | 95.5 | 82.0 | 100.0 | 100.0 | 89.0 | 86.0 | 100.0 | $\times 0$ | 94.1 | 89.5 | A |
| 1126 | 7.5 | 10.0 | 10.0 | 7.5 | 10.0 | 6.7 | x6.65 | 7.5 | 10.0 | 86.4 | 78.5 | 79.0 | 78.8 | 100.0 | 99.0 | $\times 54$ | 100.0 | 98.5 | 88.8 | 93.0 | 70.0 | 98.0 | 93.4 | 88.3 | B |
| 1168 | 10.0 | 10.0 | 7.5 | 7.5 | 10.0 | 10.0 | $\times 6.65$ | 10.0 | 10.0 | 93.7 | 87.0 | 97.0 | 92.0 | $\times 86.5$ | 91.5 | 96.0 | 92.0 | 98.0 | 90.0 | 96.0 | 100.0 | 94.0 | 94.7 | 93.8 | A |
| 1195 | 10.0 | 10.0 | 5.0 | x0 | 10.0 | 10.0 | 8.3 | 7.5 | 7.5 | 85.4 | 79.0 | 69.0 | 74.0 | 86.0 | 94.5 | 88.0 | 90.0 | 95.0 | 87.0 | 87.0 | 85.0 | $\times 20$ | 89.1 | 84.2 | B |
| 1208 | 10.0 | 7.5 | 7.5 | 6.3 | 10.0 | 10.0 | x8.32 | 10.0 | 10.0 | 89.1 | 74.0 | 82.5 | 78.3 | 90.0 | 89.5 | 84.0 | 90.0 | 100.0 | 82.0 | 91.0 | 75.0 | x49.5 | 87.7 | 85.0 | B |
| 1229 | 10.0 | 10.0 | 10.0 | 7.5 | 8.8 | 8.3 | x6.65 | 7.5 | 7.5 | 87.0 | 70.5 | 76.0 | 73.3 | 87.5 | 99.0 | 100.0 | 91.0 | 97.0 | x76 | 94.0 | 87.0 | 90.0 | 93.2 | 86.6 | B |


| 1294 | 7.5 | 10.0 | 7.5 | 8.8 | 10.0 | 0.0 | O 0.0 | 0.0 | x0 | 54.7 | 78.0 | 68.0 | 73.0 | 73.0 | 91.0 | 100.0 | 94.0 | 99.0 | 0.0 | 0.0 | 0.0 | $\times 0$ | 57.1 | 61.6 | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1396 | 10.0 | 7.5 | 7.5 | 7.5 | 10.0 | 10.0 | 08.3 | 7.5 | x7.5 | 85.4 | 93.0 | 90.5 | 91.8 | 100.0 | 93.0 | 96.0 | 94.0 | 100.0 | 92.0 | 92.0 | 100.0 | $\times 0$ | 95.9 | 93 | A |
| 35 | 0 | 10.0 | 10.0 | 6.3 | 8.8 | 10.0 | 0 | $\times 5$ | 0.0 | 91.6 | 94 | 92.0 | 93.0 | 7.0 | 89.0 | 8.0 | 0.0 | 7.0 | 6.5 | 89. | 100.0 | $\times 74$ | 89. | 90.8 | A |
| 1516 | 10.0 | 10.0 | 10.0 | 7.5 | 10. | 10.0 | 0.7 | $\times 5$ | . 0 | 92.7 | 83.5 | 93.5 | 88.5 | 100.0 | 94.5 | 98 | 90.0 | 98.0 | 96.0 | 98.0 | $\times 89$ | 97 | 96. | 93.7 | A |
| 1517 | 0.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 0 10.0 | x5 | 7.5 | 96. | 90.0 | 100. | 95.0 | 97.0 | . | $\times 66$ | 100. | 98.5 | 89.0 | 97.0 | 100. | 100. | 97.6 | 96.7 | A |
| 15 | 7.5 | 10.0 | 0.0 | 7.5 | 10.0 | 10 | O 8.3 | $\times 0$ | 10.0 | 79. | 72 | 81.5 | 76.8 | 83.0 | 86.0 | 92.0 | 84.0 | 6.0 | 91.0 | 97.0 | 8.0 | $\times 20$ | 88.4 | 84.0 | B |
| 1571 | 10.0 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | $\times 6.65$ | 7.5 | 7.5 | 92.2 | 95.5 | 85.5 | 90.5 | 93.0 | 96.5 | 88.0 | 98.0 | 100.0 | 88.8 | 95.0 | 100.0 | $\times 0$ | 94.9 | 93.3 | A |
| 1671 | 10.0 | 10. | 10.0 | 7.5 | 10.0 | 10 | 0.8 | $\times 7.5$ | 10.0 | 94.8 | 87.5 | 7.5 | 92. | 100.0 | 95.5 | 84.0 | 100.0 | 0 | $\times 84$ | 87.0 | 100.0 | 98 | 95 | 94.6 | A |
| 1728 | 7.5 | 10.0 | 7.5 | 8.8 | 0 | 10 | 0 8.3 | $\times 7.5$ | 0 | 90.1 | 86.5 | 76.5 | 81.5 | 96.0 | 85.0 | 8.0 | 2.0 | 0 | 9,0 | 92.0 | 8.0 | x0 | 92.1 | 88.7 | B |
| 1812 | 10.0 | x0 | 10.0 | 7.5 | 10.0 | 10.0 | 8.3 | 7.5 | 10.0 | 91.6 | 83.5 | 83.5 | 83.5 | 0 | $\times 0$ | 96.0 | 92.0 | 100.0 | 84.0 | 94.0 | 5.0 | 84 | 89.4 | 87.9 | B |
| 1878 | $\times 7.5$ | 10.0 | 7.5 | 7.5 | 10. | 10.0 | - 8.3 | 7.5 | 10.0 | 88.5 | 65.5 | 66.0 | 65.8 | 100.0 | 85. | 96.0 | 92.0 | 100.0 | 89.0 | 92.0 | 85.0 | x0 | 92.4 | 84.0 | B |
| 1965 | 7.5 | 7.5 | $10.0 \times$ | $\times 5$ | 8.8 | 10.0 | - 8.3 | 7.5 | 10.0 | 87.0 | 59.5 | 6.0 | 62.8 | 99.0 | 6.5 | 4.0 | 95.0 | 0.0 | 0.0 | 92.5 | $\times 65$ | 73.0 | 91.3 | 82.3 | B |
| 2020 | 10.0 | 7.5 | 10.0 | 7.5 | 0.0 | $\times 0$ | 8.3 | 5.0 | 5.0 | 66. | 70.0 | 65.5 | 67.8 | 79.5 | 5.0 | 6.0 | 93.0 | 97.0 | 94.0 | $\times 92$ | 97. | 95. | 93.4 | 83.1 | B |
| 2223 | 10.0 | 7.5 | 7.5 | 7.5 | 10.0 | 10.0 | 0.6 .7 | $\times 5$ | 7.5 | 83.3 | 76.5 | 70.0 | 73.3 | 80.0 | 91.0 | 98.0 | 91.0 | 96.0 | 84.0 | 85.0 | $\times 63$ | 80.0 | 88.1 | 83.2 | B |
| 2269 | 0.0 | 7.5 | 10.0 | 8.8 | 10 | $\times 0$ | 6.7 | 7.5 | 10.0 | 75.5 | 90.0 | 100.0 | 95.0 | 95.5 | 99.0 | .0 | $\times 0$ | 98.0 | 95.0 | 92.0 | 97. | 90 | 95.3 | 93.2 | A |
| 235 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | $\times 6.65$ | 7.5 | 10.0 | 96 | 89 | 98.5 | 93.8 | 4.5 | 3.0 | 90.0 | 93.0 | 98.0 | 99.0 | 95.0 | 0.0 | $\times 20$ | 94.1 | 44.2 | A |
| 2396 | 7.5 | 10.0 | $\times 5$ | 10.0 | 8.8 | 10.0 | - 8.3 | 7.5 | 7.5 | 87.0 | 76.0 | 66.0 | 71.0 | 99.0 | 95.5 | $\times 90$ | 94.0 | 97.0 | 91.0 | 93.0 | 8.0 | 90 | 94.7 | 86.8 | B |
| 2412 | 10.0 | 10.0 | 10.0 | 7.5 | 8.8 | $\times 0$ | 6.7 | 7.5 | 10.0 | 88.0 | 87.5 | 89.0 | 88.3 | 100.0 | 95.5 | 92. | 6.0 | 100.0 | 86.0 | 93. | 5.0 | $\times 80.5$ | 94 | 92.1 | A |
| 24 | 7.5 | 10.0 | 7.5 | 8.8 | 8.8 | 8.3 | 8.3 | $\times 5$ | 0.0 | 86.4 | 90.0 | 0.0 | 95.0 | 9.0 | 2.0 | 88. | 93.0 | 97.0 | $\times 87$ | 33. | 6.0 | 90.0 | 93 | 93.2 | A |
| 2486 | 7.5 | 10. | $\times 5$ | 8.8 | 10. | 8.3 | 8.3 | 7.5 | 10.0 | 88.0 | 74.5 | 79.0 | 76.8 | 86.0 | 89.5 | x72 | 88.0 | 97.5 | 84.0 | 93.6 | 100. | 79.0 | 89 | 85.6 | B |
| 2567 | 10.0 | 0.0 | 10. | 7.5 | 10.0 | 10.0 | $\times 4.98$ | 10.0 | 10.0 | 84.4 | 82.5 | 87.0 | 84.8 | 100.0 | 96.5 | 98 | 96.0 | 100.0 | 86.0 | x75 | 0.0 | 79.0 | 94.4 | 90.5 | A |
| 2868 | 7.5 | 7.5 | $\times 5$ | 8.8 | 10.0 | 10 | 6.7 | 7.5 | 7.5 7.5 | 81 | 97 | 10 | 98.8 | 10 | 94.5 | $\times 86$ | 99.0 | 100.0 | 93. | 89. | 100.0 | 100 | 96.9 | 96.0 | A |
| 2915 | 10.0 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | $\times 6.6$ | 7.5 | 7.5 7.5 | 92 | 90 | 0.0 | 90.0 | 95 | 100.0 | 44. | 94.0 | 8.5 | $\times 88$ | 95.0 | 100. | 95.0 | 96.4 | 94.1 | A |
| 3004 | $\times 5$ | 10. | 7.5 | 10.0 | 10.0 | 8.3 | 6.7 | 7.5 | 7.5 | 84.3 | 80.0 | , | 85.0 | $\times 87$ |  | 92.0 | 95. | 99.0 |  | 94. | 90.0 | 93 | 93.5 | 90.0 | A |
| 3095 | 7.5 | 7.5 | 10.0 | 7.5 | 10.0 | 8. | $3.7 \times$ | $\times 5$ | 10.0 | 84.3 | 68.0 | 78.0 | 73.0 | 88.5 | 95.5 | 92 | 95.0 | 98.0 | 91.0 | 93.0 | 90.0 | $\times 85$ | 92.9 | 86.1 | B |
| 3167 | 10.0 | 10.0 | $10.0 \times$ | $\times 6.25$ | 8.8 | 6.7 | 6.7 | 10.0 | 7.5 | 86 | 85. | 79.5 | 82.3 | 88.5 | 96.0 | 100.0 | 95. | 99.0 | 98.0 | 96.0 | . | $\times 85$ | 95.8 | 90.9 | A |
| 3282 | 10.0 | 10.0 | 10. | 8.8 | 10 | 10.0 | 8.3 | 7.5 | $\times 7.5$ | 93.2 | 78.0 | 9.5 | 78.8 | 90.0 | 39.0 | 90.0 | $\times 0$ | 99.0 | 93.0 | 86.0 | 90 | 95.0 | 85.3 | 84.1 | B |
| 3284 | 0.0 | 10.0 | 7.5 | 8.8 | 8.8 | 8.3 | $8.3 \times$ | $\times 0$ | 10.0 | 89.6 | 87.5 | 77.5 | 82.5 | 72.5 | 94.5 | 98.0 | 90.0 | 93.0 | 88.0 | 85.0 | $\times 75$ | 84 | 88. | 86.6 | B |
| 3506 | 7.5 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | 8.3 | $\times 5$ | 10.0 | 93 | 76 | 75.0 | 75.8 | 94. | 88.0 | 92.0 | 97.0 | 99.0 | 87.0 | 87.0 | 96 | $\times 85$ | 92 | 87.6 | B |
| 3552 | 10.0 | 10.0 | 10.0 | 8.8 | 8.8 | 10.0 | 10.0 | x7.5 | 10.0 | 96.9 | 82.0 |  |  | $\times 83$ | 95.5 | 94.0 | 96.0 | 98.5 | 86. | 94.0 | 100.0 | 91 | 94.4 | 92.4 | A |
| 3641 | 10.0 | 10.0 | 7.5 | 7.5 | 10.0 | 10.0 | 8.3 | 7.5 | $\times 5$ |  | 88.5 |  |  | 100.0 |  | 94.0 | 88.0 | 100.0 | $\times 91$ |  | 100.0 | 97.0 |  | 94.5 | A |
| 38 | 7.5 | 10.0 | 7.5 | 10.0 | 10. | 10 | 8.3 $\times$ | $\times 5$ | 7.5 | 88 | 75 | 78.5 | 76.8 | 4. | 90.0 | 4.0 | 88.0 | 98.5 | 84.0 | 93.5 | 89. | $\times 80.5$ | 89 | 85.3 | B |
| 4228 | 10.0 | 10.0 | 10.0 | 8.8 | 8.8 | 10 | 8.3 | $\times 0$ | 10. | 94. | 89.0 | 79.0 | 84.0 | 92.0 | 95.0 | 88.0 | 92.0 | 99.0 | 98.0 | 95.0 | x88 | 90. | 93.6 | 90.9 | A |
| 46 | 7.5 | 7.5 | $\times 0$ | 8.8 | 10.0 | 10 | - 8.3 | 7.5 | 10. | 87.0 | 84.5 | 93.5 |  | 100.0 | 6.5 | 90.0 | 100 | 100 | 93.0 | 95.5 | 100.0 | $\times 34$ | 96.9 | 93.7 | A |
| 497 | 10.0 | 7.5 | 7.5 | 8.8 | 10.0 | 8.3 | 8.3 | $\times 0$ |  | 84.9 | 73.5 | 3 |  | 86.5 | 88.0 | 88.0 | 87.0 | 97.0 | 86.0 | 93.0 | $\times 20$ | 80.0 | 88 | 81.9 | B |
| 5179 | 7.5 | 10.0 | 10.0 | 7.5 | 10.0 | 10.0 | 6.7 ${ }^{\text {¢ }}$ | $\times 5$ | 7.5 | 86 | 82.0 | 92.0 | 87.0 | 98.0 | 99.0 | 8.0 | 90.0 | 8.0 | 95.0 | $97.0 \times$ | $\times 89$ | 97.0 | 96.5 | 92.6 | A |
| 5190 | 10.0 | 10.0 | 0.0 | 0.0 | 10.0 | $\times 0$ | 8.3 | 5. | 0.0 | 54.2 | 70.0 | 62.0 | 66.0 | 92.0 | 4.0 | 94.0 | 96.0 | 99. | $\times 0$ | 87.0 | 89. | 80.0 | 91.4 | 80.0 | B |
| 5554 | 10.0 | 10.0 | $\times 5$ | 7.5 | 10.0 | 10.0 | 6.7 | 7.5 | 7.5 | 86.4 | 90.0 | 100 | 95.0 | 98.0 | 92.5 | 2.0 | 8.0 | 100.0 | 95.0 | $\times 65$ | 92 | 97 | 94.3 | 93.7 | A |
| 55 | . 0 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | 8. | $\times 5$ | 7.5 | 93. | 87. | 90.0 | 88.8 | 95.5 | 99. | 96. | 93.0 | 98.0 | 84 | $0.0 \times$ | $\times 70$ | 90 | 93.2 | 91.9 | A |
|  | 10.0 | 10. | 10. | 0.0 | 10.0 | 10. | 0. | x | 0.0 | 62.5 | 83.0 | 93.0 | 88.0 | 93.0 | 94. | 98.0 | 96.0 | 97.0 | 97.0 | 94.0 | 100.0 | $\times 20$ | 96.2 | 90.4 | A |
| 5895 | 10.0 | 7.5 | 7.5 | 10.0 | 10.0 | 8.3 | x6.65 | 7.5 | 7.5 | 85.4 | 91.0 | 93.0 | 92.0 | 97.0 | 100.0 | 4.0 | 96. | 98.0 | 98.0 | 93. | 100.0 | $\times 34$ | 97. | 94.3 | A |
| 6187 | 10.0 | 10.0 | $7.5 \times$ | x7.5 | 10.0 | 8.3 | 10.0 | 7.5 | 10.0 | 91. | 85.5 | 75.5 | 80.5 | 89.0 | 95.5 | 84.0 | 100.0 | 100.0 | 93.0 | 90.5 | $\times 40$ | 84. | 92. | 88.6 | B |
| 6244 | 10.0 | 7.5 | 10.0 | 8.8 | 10.0 | 10.0 | $10.0 \times$ | x7.5 | 10.0 | 95.3 | 83.0 | 93. | 88.0 | 92.0 | 94.5 | 92.0 | 91.0 | 97.0 | 92.0 | 94.0 | 97.0 | $\times 90$ | 93.7 | 92 | A |
| 6275 | 10.0 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | $8.3 \times$ | $\times 5$ | 7.5 | 93 | 71.0 | 78. | 74. | 82.0 | 89.5 | 88.0 | 96.0 | 100.0 | 94.0 | 87.0 | 100.0 | x80.5 | 92.1 | 86.9 | B |
| 6340 | 7.5 | 7.5 | 10.0 | 7.5 | 0 | 0.0 | $\times 0$ | 7.5 | 10.0 | 62.5 | 82.0 | 92.0 | 87. | 92.0 | $\times 0$ | 92.0 | 95 | 96. | 91.0 | 93.0 | 85.0 | 91. | 91 | 87 | B |


| 6457 | 10.0 | 10.0 | 7.5 | 8.8 | 10.0 | 10.0 | 10.0 | $\times 5$ | 10.0 | 95.3 | 84.5 | 94.5 | 89.5 | 95.5 | 92.5 | x0 | 94.0 | 100.0 | 79.0 | 91.0 | 95.0 | 78.5 | 90.7 | 90.8 | A |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7043 | 10.0 | 7.5 | $\times 5$ | 7.5 | 10.0 | 10.0 | 8.3 | 7.5 | 5.0 | 82.3 | 90.0 | 100.0 | 95.0 | 91.0 | 88.0 | $\times 84$ | 95.0 | 97.0 | 94.0 | 91.0 | 96.0 | 91.0 | 92.9 | 92.5 | A |
| 7777 | 7.5 | 10.0 | 10.0 | 8.8 | 10.0 | 8.3 | $\times 6.65$ | 7.5 | 10.0 | 90.1 | 84.5 | 94.5 | 89.5 | 92.0 | 98.0 | 96.0 | 95.0 | 97.0 | 95.0 | x91 | 94.0 | 94.0 | 95.1 | 92.9 | A |
| 7788 | 10.0 | 10.0 | 10.0 | 8.8 | 10.0 | 10.0 | 6.7 | $\times 5$ | 7.5 | 91.1 | 73.5 | 63.5 | 68.5 | 91.0 | 91.5 | 88.0 | 86.0 | 96.0 | 94.0 | 97.0 | 87.0 | $\times 82$ | 91.3 | 84.4 | B |
| 8492 | 10.0 | 10.0 | 7.5 | 8.8 | 10.0 | x3.32 | 8.3 | 5.0 | 5.0 | 80.7 | 84.5 | 86.5 | 85.5 | 80.0 | 88.0 | 78.0 | 92.0 | 100.0 | 84.0 | 80.0 | 100.0 | x66 | 87.8 | 86.4 | B |
| 9121 | 10.0 | 10.0 | $\times 0$ | 0.0 | 10.0 | 10.0 | 0.0 | 5.0 | 7.5 | 65.6 | 80.0 | 70.0 | 75.0 | 87.5 | 86.0 | 88.0 | 80.0 | 94.0 | 87.0 | 94.0 | $\times 20$ | 76.0 | 86.6 | 81.0 | B |
| 9608 | 10.0 | 7.5 | 10.0 | 7.5 | 10.0 | 10.0 | 8.3 | 7.5 | x7.5 | 88.5 | 82.5 | 84.0 | 83.3 | 93.0 | 100.0 | 98.0 | 96.0 | 100.0 | 88.0 | x75 | 100.0 | 79.0 | 94.3 | 90. | A |
| max | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 96.9 | 97.5 | 100.0 | 98.8 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.0 | 98.0 | 100.0 | 100.0 | 97.8 | 97.3 |  |
| min | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.2 | 59.5 | 62.0 | 62.8 | 72.5 | 39.0 | 76.0 | 80.0 | 87.0 | 0.0 | 0.0 | 0.0 | 73.0 | 57.1 | 61.6 |  |
| ave | 9.2 | 9.2 | 8.6 | 8.0 | 9.5 | 9.2 | 7.6 | 7.3 | 8.6 | 86.6 | 81.6 | 83.4 | 82.5 | 91.5 | 92.8 | 91.5 | 93.6 | 98.2 | 89.0 | 90.0 | 91.7 | 90.0 | 92.2 | 88.7 |  |
| ave \% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

