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# SARS-CoV-2 Variants in Paraguay: Detection and Surveillance with an Economical and Scalable Molecular Protocol 

File S1. Spike SNP Performance.

Spike SNP assays were performed as separate runs on the same day using the following conditions: $52^{\circ} \mathrm{C}$ for $15 \mathrm{~min}, 94^{\circ} \mathrm{C}$ for 2 min , and 45 cycles of $94^{\circ} \mathrm{C}$ for 15 s and 60 ${ }^{\circ} \mathrm{C}$ for 60 s . At $60^{\circ} \mathrm{C}$, a fluorescent signal was acquired in all channels. Thresholds for each channel were set during assay optimization and used for all subsequent analyses. During the analysis of the Spike SNP data, outlier removal was performed for signals that did not reach $10 \%$ (K417, 490S) or $20 \%(452 \mathrm{R}, 484 \mathrm{~K}, 501 \mathrm{Y}, 452 \mathrm{Q}, 484 \mathrm{Q}, 478 \mathrm{~K})$ of the maximum fluorescence in a given channel. Samples were considered positive in the Spike SNP assay if an exponential curve was generated with one or more probes.


Figure S1. 478K and 484Q probes do not interfere with detection despite overlapping sequences. Dilutions of RNA from B.1.617.2 (delta variant, 478K) and B.1.617.1 (484Q) were tested in Spike SNP triplexes containing probes for $452 \mathrm{Q}, 490$, and either 478 K or 484 Q (solid curves), or a Spike SNP quadruplex assay containing all 4 probes on a single run (dotted curves). Amplification curves are shown for undiluted eluate, 100-fold and 1000-fold dilutions for each variant.


Figure S2. Performance of unmodified hydrolysis probes compared to probes that include LNA bases for the detection of mutations that cause $452 \mathrm{R}, 484 \mathrm{~K}$ and 501 Y . Controls containing the particular mutation were tested on a single run using both probes. Ct values are displayed. Curves generated from probes containing LNA bases are shown as solid lines; those generated with unmodified probes are displayed as thin, dotted lines.
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Table S1. Spike SNP and N2RP line data for 201 clinical samples tested from Paraguay.

| Código (PY21) | N2 | RNase P | 417K | 452R | 484K | 501Y | 452Q | 484Q | 490S | Qualitative Spike SNP Result | SNPs Confirmed (amplicon sequencing) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PY21-1 | 25.71 | 22.26 | N | N | 31.98 | 30.56 | N | N | N | Pos | Yes |
| PY21-2 | 24.13 | 18.30 | 27.18 | 27.43 | bleed | N | N | N | N | Pos | Yes |
| PY21-3 | 14.41 | 16.75 | 17.22 | 17.73 | bleed | N | N | N | N | Pos | Yes |
| PY21-4 | 13.90 | 16.62 | N | N | 18.40 | 16.65 | N | N | N | Pos | Yes |
| PY21-5 | 20.50 | 20.32 | N | N | 24.72 | 23.10 | N | N | N | Pos | Yes |
| PY21-6 | 13.54 | 16.26 | N | N | 17.98 | 16.32 | N | N | N | Pos | Yes |
| PY21-7 | 19.94 | 18.99 | N | N | 24.49 | 22.95 | N | N | N | Pos | Yes |
| PY21-8 | 25.00 | 19.99 | N | N | 29.40 | 28.00 | N | N | N | Pos | Yes |
| PY21-9 | 22.75 | 22.33 | N | N | 27.21 | 25.65 | N | N | N | Pos | Yes |
| PY21-10 | 32.56 | 23.67 | N | N | 37.10 | 35.92 | N | N | N | Pos | NA |
| PY21-11 | 20.42 | 21.01 | N | N | 24.90 | 23.45 | N | N | N | Pos | Yes |
| PY21-12 | 26.71 | 21.44 | N | N | 32.04 | 30.68 | N | N | N | Pos | Yes |
| PY21-13 | 21.39 | 20.69 | N | N | 25.15 | 23.63 | N | N | N | Pos | Yes |
| PY21-14 | 24.25 | 20.83 | N | N | 28.27 | 26.86 | N | N | N | Pos | Yes |
| PY21-15 | 29.22 | 17.77 | N | N | 34.78 | 33.56 | N | N | N | Pos | NA |
| PY21-16 | 12.95 | - | N | N | 16.58 | 14.81 | N | N | N | Pos | Yes |
| PY21-17 | 22.14 | 19.06 | N | N | 26.88 | 25.31 | N | N | N | Pos | Yes |
| PY21-18 | 23.12 | 20.80 | N | N | 28.30 | 26.82 | N | N | N | Pos | Yes |
| PY21-19 | 13.06 | - | N | N | 18.02 | 16.34 | N | N | N | Pos | Yes |
| PY21-20 | 12.74 | 15.28 | N | N | 17.27 | 15.57 | N | N | N | Pos | Yes |
| PY21-21 | 30.12 | 21.73 | N | N | 34.40 | 32.92 | N | N | N | Pos | Poor Quality |
| PY21-22 | 20.01 | 20.34 | N | N | 24.61 | 23.05 | N | N | N | Pos | Yes |
| PY21-23 | 12.76 | 15.60 | N | N | 17.26 | 15.51 | N | N | N | Pos | Yes |
| PY21-24 | 18.07 | 20.77 | N | N | 21.91 | 20.35 | N | N | N | Pos | Yes |
| PY21-25 | 18.73 | 16.36 | 22.35 | N | 22.94 | N | N | N | N | Pos | Yes |
| PY21-26 | 18.34 | 21.58 | 21.14 | N | 21.82 | N | N | N | N | Pos | Yes |
| PY21-27 | 23.89 | 21.75 | 26.13 | N | N | N | N | N | N | Pos | Yes |
| PY21-28 | 18.02 | 17.09 | 20.67 | N | N | N | N | N | N | Pos | Yes |
| PY21-29 | 13.18 | 15.56 | 15.76 | N | N | N | N | N | N | Pos | Yes |
| PY21-30 | 19.75 | 18.55 | 22.06 | N | N | N | N | N | N | Pos | Yes |
| PY21-31 | 32.03 | 18.46 | 36.66 | N | N | N | N | N | N | Pos | NA |
| PY21-32 | 18.13 | 17.27 | 20.56 | N | N | N | N | N | N | Pos | Yes |
| PY21-33 | 21.86 | 17.67 | 25.02 | N | N | N | N | N | N | Pos | Yes |
| PY21-34 | 13.36 | 13.81 | 15.61 | N | N | N | N | N | N | Pos | Yes |
| PY21-35 | 17.71 | 17.75 | 20.00 | N | N | N | N | N | N | Pos | Yes |
| PY21-36 | 35.12 | 19.11 | N | N | N | N | N | N | N | Neg | NA |
| PY21-37 | 20.10 | 18.38 | 23.06 | N | N | N | N | N | N | Pos | Yes |
| PY21-38 | 14.05 | 14.23 | 16.31 | N | 16.93 | N | N | N | N | Pos | Yes |
| PY21-39 | 18.85 | 18.56 | 21.70 | N | N | N | N | N | N | Pos | Yes |
| PY21-40 | 11.45 | 15.20 | 13.46 | N | N | N | N | N | N | Pos | Yes |
| PY21-41 | 15.23 | 15.29 | 17.94 | N | N | N | N | N | 20.08 | Pos | Yes |
| PY21-42 | 28.35 | 20.53 | 31.24 | N | N | N | N | N | N | Pos | Yes |
| PY21-43 | 20.88 | 18.21 | 23.65 | N | N | N | N | N | N | Pos | Yes |
| PY21-44 | 21.07 | 19.85 | 23.54 | N | N | N | N | N | N | Pos | Yes |
| PY21-45 | 33.46 | 22.47 | 37.97 | N | N | N | N | N | N | Pos | NA |
| PY21-46 | 17.73 | 17.51 | 20.04 | N | N | N | N | N | N | Pos | Yes |


| PY21-47 | 13.38 | 17.07 | 15.87 | N | N | N | N | N | N | Pos | Yes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PY21-48 | 36.58 | 19.67 | N | N | N | N | N | N | N | Neg | NA |
| PY21-49 | 24.60 | 20.98 | 27.53 | N | 27.90 | N | N | N | N | Pos | Yes |
| PY21-50 | 26.73 | 20.10 | 30.04 | N | N | N | N | N | N | Pos | Yes |
| PY21-51 | 28.67 | 23.28 | N | N | 33.11 | 31.81 | N | N | N | Pos | Yes |
| PY21-52 | 19.80 | 17.30 | 22.62 | N | 23.03 | N | N | N | N | Pos | Yes |
| PY21-53 | 22.69 | 16.63 | 25.79 | N | N | N | N | N | N | Pos | Yes |
| PY21-54 | 22.81 | 21.79 | N | N | 26.81 | 25.37 | N | N | N | Pos | Yes |
| PY21-55 | 18.52 | 18.25 | N | N | 21.64 | 20.17 | N | N | N | Pos | Yes |
| PY21-56 | 24.98 | 20.71 | 28.28 | N | 28.56 | N | N | N | N | Pos | Yes |
| PY21-57 | 15.78 | 15.30 | N | N | 18.85 | 17.23 | N | N | N | Pos | Yes |
| PY21-58 | 16.97 | 16.73 | N | N | 20.77 | 19.33 | N | N | N | Pos | Yes |
| PY21-59 | 30.11 | 17.75 | N | N | 35.32 | 34.64 | N | N | N | Pos | Poor Quality |
| PY21-60 | 16.34 | 16.39 | N | N | 19.67 | 18.17 | N | N | N | Pos | Yes |
| PY21-61 | 30.47 | 25.74 | 34.26 | N | 38.36 | N | N | N | N | Pos | NA |
| PY21-62 | 27.65 | 17.16 | 31.02 | N | N | N | N | N | N | Pos | Yes |
| PY21-63 | 25.50 | 20.98 | 28.72 | N | 29.03 | N | N | N | N | Pos | Yes |
| PY21-64 | 27.76 | 17.83 | 30.96 | N | N | N | N | N | N | Pos | Yes |
| PY21-65 | 32.12 | 19.33 | 37.27 | N | 35.75 | 35.53 | N | N | N | Pos | NA |
| PY21-66 | 13.46 | 13.38 | N | N | 16.29 | 14.68 | N | N | N | Pos | Yes |
| PY21-67 | 16.14 | 15.94 | N | N | 19.76 | 18.19 | N | N | N | Pos | Yes |
| PY21-68 | 20.75 | 16.78 | N | N | 23.55 | 22.08 | N | N | N | Pos | Yes |
| PY21-69 | 19.67 | 17.37 | 22.58 | N | 23.00 | N | N | N | N | Pos | Yes |
| PY21-70 | 27.31 | 18.45 | 30.49 | N | 30.71 | N | N | N | N | Pos | Yes |
| PY21-71 | 26.11 | 20.47 | N | N | 29.32 | 27.96 | N | N | N | Pos | Yes |
| PY21-72 | 31.12 | 21.02 | 34.45 | N | 34.49 | N | N | N | N | Pos | Yes |
| PY21-73 | 22.59 | 18.93 | N | N | 25.46 | 23.97 | N | N | N | Pos | Yes |
| PY21-74 | 32.82 | 21.65 | N | N | 37.87 | N | N | N | N | Pos | NA |
| PY21-75 | 16.68 | 16.84 | N | N | 19.84 | 18.34 | N | N | N | Pos | Yes |
| PY21-76 | 16.73 | 16.80 | N | N | 20.71 | 19.29 | N | N | N | Pos | Yes |
| PY21-77 | 16.29 | 17.07 | N | N | 19.49 | 17.90 | N | N | N | Pos | Yes |
| PY21-78 | 13.83 | 14.75 | N | N | 16.82 | 15.16 | N | N | N | Pos | Yes |
| PY21-79 | 18.64 | 17.90 | N | N | 21.30 | 19.80 | N | N | N | Pos | Yes |
| PY21-80 | 27.00 | 19.87 | 30.24 | N | N | N | N | N | N | Pos | Yes |
| PY21-81 | 12.02 | 16.81 | N | N | 14.96 | 13.28 | N | N | N | Pos | Yes |
| PY21-82 | 14.39 | 14.80 | N | N | 18.25 | 16.65 | N | N | N | Pos | Yes |
| PY21-83 | 18.24 | 17.68 | N | N | 21.63 | 20.13 | N | N | N | Pos | Yes |
| PY21-84 | 18.14 | 16.15 | N | N | 21.19 | 19.65 | N | N | N | Pos | Yes |
| PY21-85 | 15.90 | 15.25 | N | N | 19.24 | 17.61 | N | N | N | Pos | Yes |
| PY21-86 | 15.26 | 15.42 | N | N | 18.43 | 16.79 | N | N | N | Pos | Yes |
| PY21-87 | 18.17 | 17.16 | N | N | 21.36 | 19.80 | N | N | N | Pos | Yes |
| PY21-88 | 23.18 | 22.09 | N | N | 26.34 | 24.92 | N | N | N | Pos | Yes |
| PY21-89 | 27.49 | 19.10 | N | N | 31.19 | 29.78 | N | N | N | Pos | Yes |
| PY21-90 | 15.33 | 20.54 | N | N | 19.29 | 17.75 | N | N | N | Pos | Yes |
| PY21-91 | 18.09 | 16.31 | N | N | 21.68 | 20.13 | N | N | N | Pos | Yes |
| PY21-92 | 17.78 | 17.18 | 21.04 | N | N | N | N | N | N | Pos | Yes |
| PY21-93 | 16.73 | 17.34 | 19.09 | N | N | N | N | N | N | Pos | Yes |
| PY21-94 | 19.15 | 16.68 | 21.90 | N | N | N | N | N | N | Pos | Yes |
| PY21-95 | 23.17 | 19.33 | 26.31 | N | N | N | N | N | N | Pos | Yes |
| PY21-96 | 23.61 | 19.09 | 26.66 | N | N | N | N | N | N | Pos | Yes |
| PY21-97 | 25.70 | 19.58 | 28.84 | N | 29.24 | N | N | N | N | Pos | Yes |
| PY21-98 | 17.41 | 16.99 | 20.49 | N | N | N | N | N | N | Pos | Yes |


| PY21-99 | 29.19 | 18.62 | 32.61 | N | N | N | N | N | N | Pos | NA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PY21-100 | 16.07 | 15.54 | N | N | 20.32 | 18.79 | N | N | N | Pos | Yes |
| PY21-101 | 18.35 | 17.88 | 21.64 | N | N | N | N | N | N | Pos | Yes |
| PY21-102 | 21.03 | 20.02 | 23.46 | 23.87 | bleed | N | N | N | N | Pos | Yes |
| PY21-103 | 30.65 | 21.78 | 34.72 | N | 34.90 | N | N | N | N | Pos | NA |
| PY21-104 | 15.42 | 15.59 | 18.57 | N | N | N | N | N | N | Pos | Yes |
| PY21-105 | 22.81 | 20.08 | 25.49 | N | N | N | N | N | N | Pos | Yes |
| PY21-106 | 28.74 | 27.92 | 32.90 | N | N | N | N | N | N | Pos | Yes |
| PY21-107 | 23.27 | 19.81 | 27.93 | N | N | N | N | N | N | Pos | Yes |
| PY21-108 | 32.62 | 29.92 | 35.23 | N | N | N | N | N | N | Pos | Yes |
| PY21-109 | 14.92 | 14.57 | 17.28 | N | N | N | N | N | N | Pos | Yes |
| PY21-110 | 31.47 | 16.53 | 34.51 | N | N | N | N | N | N | Pos | NA |
| PY21-111 | 19.77 | 18.28 | 23.34 | N | 23.79 | N | N | N | N | Pos | Yes |
| PY21-112 | 16.98 | 17.44 | 20.06 | N | N | N | N | N | N | Pos | Yes |
| PY21-113 | 21.02 | 17.16 | 23.32 | N | N | N | N | N | N | Pos | Yes |
| PY21-114 | 17.27 | 16.03 | 20.20 | N | 20.67 | N | N | N | N | Pos | Yes |
| PY21-115 | 28.88 | 18.79 | 31.64 | N | 31.83 | N | N | N | N | Pos | Yes |
| PY21-116 | 17.97 | 17.79 | 20.64 | N | N | N | N | N | N | Pos | Yes |
| PY21-117 | 25.52 | 18.77 | 28.61 | N | 29.03 | N | N | N | N | Pos | Yes |
| PY21-118 | 14.28 | 14.77 | 16.65 | 16.96 | bleed | N | N | N | N | Pos | Yes |
| PY21-119 | 30.80 | 19.37 | 33.38 | N | N | N | N | N | N | Pos | Poor Quality |
| PY21-120 | 20.82 | 19.86 | 23.51 | N | N | N | N | N | N | Pos | Yes |
| PY21-121 | 31.77 | 21.84 | 38.68 | N | N | N | N | N | N | Pos | NA |
| PY21-122 | 20.30 | 19.79 | N | N | 24.19 | 22.83 | N | N | N | Pos | Yes |
| PY21-123 | 33.87 | 20.09 | N | N | 35.94 | 35.00 | N | N | N | Pos | NA |
| PY21-124 | 15.97 | 16.11 | 19.03 | N | 19.46 | N | N | N | N | Pos | Yes |
| PY21-125 | 15.70 | 16.22 | N | N | 19.82 | 18.24 | N | N | N | Pos | Yes |
| PY21-126 | 16.06 | 18.75 | 18.96 | N | 19.39 | N | N | N | N | Pos | Yes |
| PY21-127 | 22.22 | 20.64 | N | N | 26.02 | 24.65 | N | N | N | Pos | Yes |
| PY21-128 | 21.98 | 20.87 | 24.83 | N | N | N | N | N | N | Pos | Yes |
| PY21-129 | 20.17 | 19.03 | N | N | 24.15 | 22.76 | N | N | N | Pos | Yes |
| PY21-130 | 13.51 | 13.95 | N | N | 17.01 | 15.45 | N | N | N | Pos | Yes |
| PY21-131 | 21.28 | 19.21 | N | N | 24.90 | 23.46 | N | N | N | Pos | Yes |
| PY21-132 | 17.65 | 17.93 | N | N | 21.17 | 19.65 | N | N | N | Pos | Yes |
| PY21-133 | 20.26 | 18.39 | N | N | 23.69 | 22.23 | N | N | N | Pos | Yes |
| PY21-134 | 25.54 | 21.90 | N | N | 28.63 | 27.25 | N | N | N | Pos | Yes |
| PY21-135 | 14.41 | 15.68 | N | N | 18.10 | 16.52 | N | N | N | Pos | Yes |
| PY21-136 | 25.85 | 25.41 | 28.61 | N | N | N | N | N | N | Pos | Yes |
| PY21-137 | 31.81 | 19.09 | 35.50 | N | N | N | N | N | N | Pos | NA |
| PY21-138 | 23.55 | 23.28 | 26.85 | N | N | N | N | N | N | Pos | Yes |
| PY21-139 | 27.80 | 25.90 | 32.56 | N | N | N | N | N | N | Pos | Yes |
| PY21-140 | 22.14 | 19.18 | 25.92 | N | N | N | N | N | N | Pos | Yes |
| PY21-141 | 24.45 | 21.17 | 27.55 | N | N | N | N | N | N | Pos | Yes |
| PY21-142 | 21.66 | 19.60 | 25.67 | N | N | N | N | N | N | Pos | Yes |
| PY21-143 | 19.74 | 19.96 | 23.56 | N | N | N | N | N | N | Pos | Yes |
| PY21-144 | 18.41 | 19.73 | 22.74 | N | N | N | N | N | N | Pos | Yes |
| PY21-145 | 19.69 | 19.52 | 23.36 | N | N | N | N | N | N | Pos | Yes |
| PY21-146 | 23.05 | 18.79 | 26.89 | N | N | N | N | N | N | Pos | Yes |
| PY21-147 | 19.34 | 20.56 | 22.75 | N | N | N | N | N | N | Pos | Yes |
| PY21-148 | 15.89 | 17.79 | 19.03 | N | N | N | N | N | N | Pos | Yes |
| PY21-149 | 15.73 | 17.85 | 18.83 | N | N | N | N | N | N | Pos | Yes |
| PY21-150 | 20.13 | 19.64 | 23.67 | N | N | N | N | N | N | Pos | Yes |


| PY21-151 | 22.19 | 20.42 | 26.52 | N | 27.03 | N | N | N | N | Pos | Yes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PY21-152 | 23.81 | 21.47 | 27.47 | N | N | N | N | N | N | Pos | Yes |
| PY21-153 | 21.22 | 22.38 | 24.78 | N | N | N | N | N | N | Pos | Yes |
| PY21-154 | 21.21 | 22.96 | 25.05 | N | N | N | N | N | N | Pos | Yes |
| PY21-155 | 26.80 | 22.71 | 29.56 | N | N | N | N | N | N | Pos | Yes |
| PY21-156 | 19.66 | 21.11 | 23.17 | N | N | 22.10 | N | N | N | Pos | Yes |
| PY21-157 | 15.24 | 17.24 | 18.52 | N | 19.17 | N | N | N | N | Pos | Yes |
| PY21-158 | 12.73 | 15.10 | N | N | 17.01 | 15.36 | N | N | N | Pos | Yes |
| PY21-159 | 28.52 | 22.35 | N | N | 33.10 | 31.57 | N | N | N | Pos | Yes |
| PY21-160 | 15.45 | 17.75 | N | N | 19.02 | 17.32 | N | N | N | Pos | Yes |
| PY21-161 | 16.35 | 17.78 | N | N | 20.72 | 19.01 | N | N | N | Pos | Yes |
| PY21-162 | 27.73 | 25.54 | N | N | 33.53 | 32.05 | N | N | N | Pos | Yes |
| PY21-163 | 20.61 | 21.03 | N | N | 25.44 | 23.79 | N | N | N | Pos | Yes |
| PY21-164 | 20.16 | 22.00 | N | N | 24.11 | 22.50 | N | N | N | Pos | Yes |
| PY21-165 | 16.48 | 18.52 | N | N | 20.18 | 18.54 | N | N | N | Pos | Yes |
| PY21-166 | 17.52 | 19.45 | 19.99 | N | 20.62 | N | N | N | N | Pos | Yes |
| PY21-167 | 16.47 | 18.72 | N | N | 20.13 | 18.51 | N | N | N | Pos | Yes |
| PY21-168 | 14.16 | 19.68 | N | N | 17.71 | 15.99 | N | N | N | Pos | Yes |
| PY21-169 | 18.30 | 20.40 | N | N | 21.70 | 20.26 | N | N | N | Pos | Yes |
| PY21-170 | 15.00 | 17.13 | N | N | 18.88 | 17.29 | N | N | N | Pos | Yes |
| PY21-171 | 15.83 | 18.01 | N | N | 19.38 | 17.77 | N | N | N | Pos | Yes |
| PY21-172 | 23.04 | 20.52 | N | N | 27.66 | 26.22 | N | N | N | Pos | Yes |
| PY21-173 | 16.49 | 18.65 | N | N | 20.39 | 18.83 | N | N | N | Pos | Yes |
| PY21-174 | 17.35 | 19.66 | N | N | 20.92 | 19.42 | N | N | N | Pos | Yes |
| PY21-175 | 17.15 | 18.86 | N | N | 21.45 | 19.88 | N | N | N | Pos | Yes |
| PY21-176 | 14.79 | 17.10 | N | N | 18.51 | 16.93 | N | N | N | Pos | Yes |
| PY21-177 | 19.42 | 20.59 | N | N | 23.24 | 21.71 | N | N | N | Pos | Yes |
| PY21-178 | 16.11 | 18.31 | N | N | 19.60 | 18.03 | N | N | N | Pos | Yes |
| PY21-179 | 17.56 | 19.73 | 20.11 | 20.63 | bleed | N | N | N | N | Pos | Yes |
| PY21-180 | 18.64 | 20.81 | N | N | 22.28 | 20.66 | N | N | N | Pos | Yes |
| PY21-181 | 15.48 | 17.43 | N | N | 19.82 | 18.22 | N | N | N | Pos | Yes |
| PY21-182 | 20.09 | 22.15 | N | N | 24.82 | 23.23 | N | N | N | Pos | Yes |
| PY21-183 | 19.26 | 18.21 | N | N | 23.04 | 21.45 | N | N | N | Pos | Yes |
| PY21-184 | 16.12 | 17.41 | N | N | 20.51 | 18.92 | N | N | N | Pos | Yes |
| PY21-185 | 14.35 | 16.70 | N | N | 18.43 | 16.77 | N | N | N | Pos | Yes |
| PY21-186 | 14.93 | 17.23 | N | N | 18.88 | 17.22 | N | N | N | Pos | Yes |
| PY21-187 | 12.42 | 17.55 | N | N | 16.44 | 14.86 | N | N | N | Pos | Yes |
| PY21-188 | 21.31 | 19.21 | 23.88 | 24.33 | bleed | N | N | N | N | Pos | Yes |
| PY21-189 | 21.52 | 20.86 | N | N | 26.20 | 24.90 | N | N | N | Pos | Yes |
| PY21-190 | 16.63 | 18.69 | N | N | 20.40 | 18.97 | N | N | N | Pos | Yes |
| PY21-191 | 23.43 | 22.34 | N | N | 27.54 | 26.20 | N | N | N | Pos | Yes |
| PY21-192 | 23.58 | 23.04 | N | N | 27.43 | 26.15 | N | N | N | Pos | Yes |
| PY21-193 | 16.16 | 18.10 | N | N | 19.76 | 18.33 | N | N | N | Pos | Yes |
| PY21-194 | 24.84 | 19.53 | N | N | 28.52 | 27.10 | N | N | N | Pos | Yes |
| PY21-195 | 19.14 | 20.79 | N | N | 22.81 | 21.42 | N | N | N | Pos | Yes |
| PY21-196 | 22.72 | 21.56 | 25.61 | 26.09 | bleed | N | N | N | N | Pos | Poor Quality |
| PY21-197 | 16.83 | 18.73 | N | N | 20.50 | 19.07 | N | N | N | Pos | Yes |
| PY21-198 | 18.09 | 19.58 | N | N | 22.76 | 21.43 | N | N | N | Pos | Yes |
| PY21-199 | 18.31 | 20.23 | N | N | 21.88 | 20.52 | N | N | N | Pos | Yes |
| PY21-200 | 17.47 | 19.48 | N | N | 20.77 | 19.39 | N | N | N | Pos | Yes |
| PY21-201 | 32.62 | 23.67 | N | N | N | N | N | N | N | Neg | NA |

Abbreviations: bleed, signifies low signal from orange (452R) detected in red (484K); N, no positive signal detected; N2, SARS-CoV-2 N2 target; NA, no amplicon sequence generated; Neg, negative; Pos, positive; SNP, single nucleotide polymorphism detected in the Spike SNP rRT-PCR; "-", altered RNase P curve from high N2 signal

