

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:22:45 BST 2023

Experiment info

| | |
|------|-------------------------------|
| Name | csg524 Sample 4 Measurement 2 |
| Type | Contact angle |
| Date | 16-May-2023 14:11 |

Solid

| | |
|------------------------------|-------------------------|
| Name | polypropylene untreated |
| γ_{tot} [mN/m] | 25.700 |
| γ_{d} [mN/m] | 25.300 |
| γ_{+} [mN/m] | 0.090 |
| γ_{-} [mN/m] | 0.500 |
| ρ [g/cm ³] | |

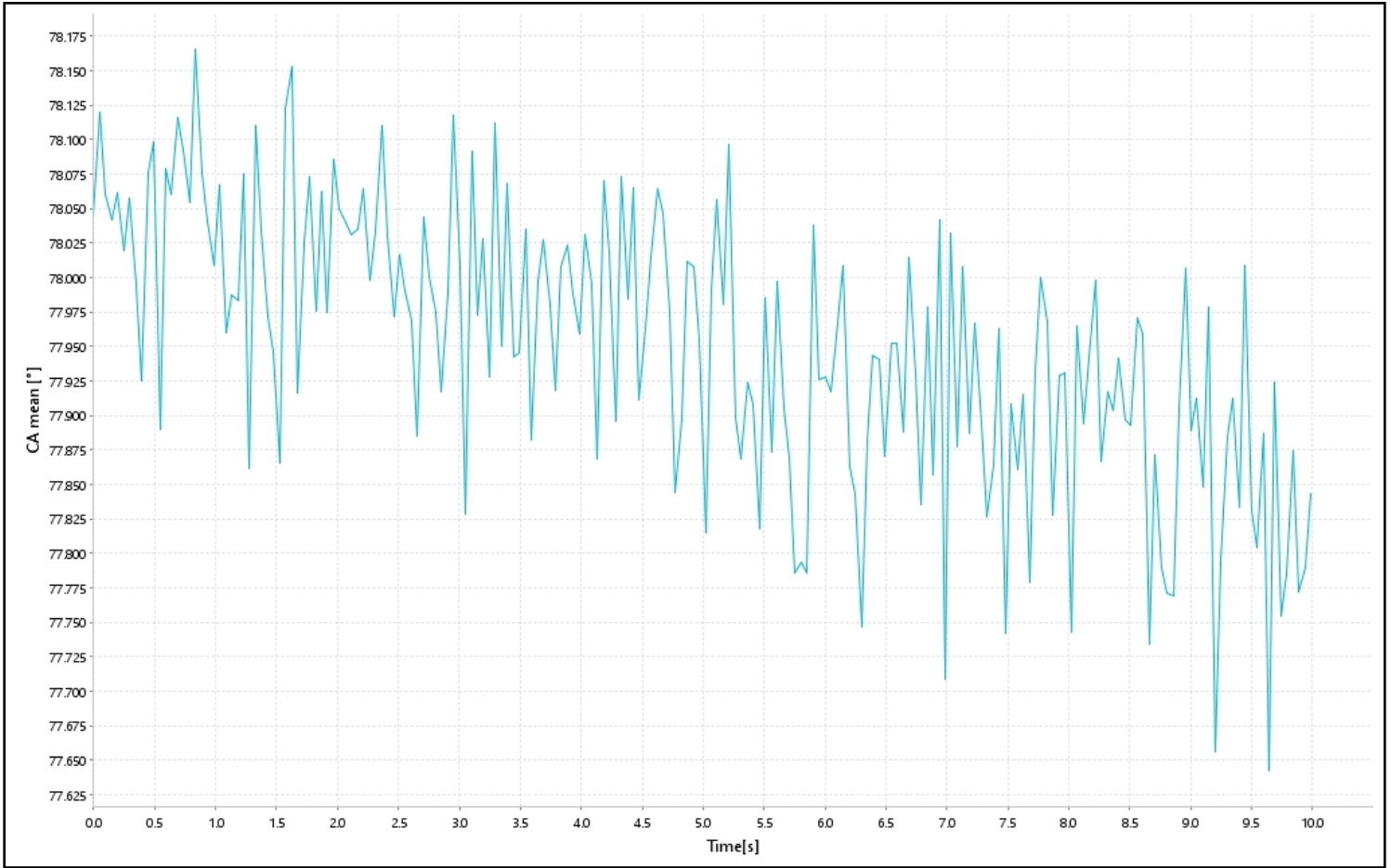
Heavy phase

| | |
|------------------------------|------------|
| Name | Water 20 C |
| γ_{tot} [mN/m] | 72.800 |
| γ_{d} [mN/m] | 21.800 |
| γ_{+} [mN/m] | 25.500 |
| γ_{-} [mN/m] | 25.500 |
| ρ [g/cm ³] | 0.9980 |
| η [mPa.s] | 1.002 |
| Temperature [°C] | 20.000 |
| Molecular weight [g/mol] | 18.010 |

Light phase

| | |
|------------------------------|--------|
| Name | Air |
| γ_{tot} [mN/m] | |
| γ_{d} [mN/m] | |
| γ_{+} [mN/m] | |
| γ_{-} [mN/m] | |
| ρ [g/cm ³] | 0.0012 |
| η [mPa.s] | |
| Temperature [°C] | 20.000 |
| Molecular weight [g/mol] | 0.029 |





Detailed results

| Time [s] | CA left [°] | CA right [°] | CA mean [°] | Volume [μl] | Baseline [mm] |
|----------|-------------|--------------|-------------|-------------|---------------|
| 0.00 | 76.34 | 79.75 | 78.05 | 0.35 | 1.19 |
| 0.05 | 76.41 | 79.83 | 78.12 | 0.35 | 1.19 |
| 0.10 | 76.25 | 79.87 | 78.06 | 0.35 | 1.19 |
| 0.15 | 76.23 | 79.85 | 78.04 | 0.35 | 1.19 |
| 0.20 | 76.47 | 79.66 | 78.06 | 0.35 | 1.19 |
| 0.25 | 76.62 | 79.42 | 78.02 | 0.34 | 1.19 |
| 0.30 | 76.57 | 79.55 | 78.06 | 0.34 | 1.19 |
| 0.34 | 76.42 | 79.58 | 78.00 | 0.35 | 1.19 |
| 0.39 | 76.10 | 79.75 | 77.93 | 0.35 | 1.19 |
| 0.44 | 76.20 | 79.95 | 78.08 | 0.35 | 1.19 |
| 0.49 | 76.35 | 79.84 | 78.10 | 0.35 | 1.19 |
| 0.54 | 76.53 | 79.25 | 77.89 | 0.34 | 1.19 |
| 0.59 | 76.85 | 79.31 | 78.08 | 0.34 | 1.20 |
| 0.64 | 76.77 | 79.35 | 78.06 | 0.34 | 1.19 |
| 0.69 | 76.61 | 79.63 | 78.12 | 0.34 | 1.19 |
| 0.74 | 76.38 | 79.81 | 78.09 | 0.35 | 1.19 |
| 0.79 | 76.47 | 79.63 | 78.05 | 0.34 | 1.19 |
| 0.84 | 76.81 | 79.52 | 78.17 | 0.34 | 1.19 |
| 0.89 | 76.72 | 79.43 | 78.08 | 0.34 | 1.19 |
| 0.93 | 76.54 | 79.54 | 78.04 | 0.34 | 1.19 |
| 0.98 | 76.29 | 79.73 | 78.01 | 0.35 | 1.19 |
| 1.03 | 76.23 | 79.91 | 78.07 | 0.35 | 1.19 |
| 1.08 | 76.24 | 79.68 | 77.96 | 0.35 | 1.19 |
| 1.13 | 76.41 | 79.56 | 77.99 | 0.35 | 1.19 |
| 1.18 | 76.49 | 79.47 | 77.98 | 0.34 | 1.19 |
| 1.23 | 76.57 | 79.58 | 78.08 | 0.34 | 1.19 |
| 1.28 | 76.34 | 79.38 | 77.86 | 0.34 | 1.19 |
| 1.33 | 76.48 | 79.74 | 78.11 | 0.35 | 1.19 |
| 1.38 | 76.29 | 79.78 | 78.04 | 0.35 | 1.19 |
| 1.43 | 76.43 | 79.51 | 77.97 | 0.35 | 1.19 |
| 1.48 | 76.35 | 79.54 | 77.95 | 0.35 | 1.19 |
| 1.53 | 76.20 | 79.53 | 77.87 | 0.35 | 1.19 |
| 1.57 | 76.50 | 79.75 | 78.12 | 0.35 | 1.19 |
| 1.62 | 76.50 | 79.81 | 78.15 | 0.35 | 1.19 |
| 1.67 | 76.34 | 79.49 | 77.92 | 0.34 | 1.19 |
| 1.72 | 76.57 | 79.48 | 78.02 | 0.34 | 1.19 |

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|------|-------|-------|-------|------|------|
| 1.77 | 76.35 | 79.80 | 78.07 | 0.35 | 1.19 |
| 1.82 | 76.26 | 79.69 | 77.98 | 0.35 | 1.19 |
| 1.87 | 76.25 | 79.88 | 78.06 | 0.35 | 1.19 |
| 1.92 | 76.27 | 79.68 | 77.97 | 0.35 | 1.19 |
| 1.97 | 76.38 | 79.80 | 78.09 | 0.35 | 1.19 |
| 2.02 | 76.29 | 79.81 | 78.05 | 0.35 | 1.19 |
| 2.07 | 76.21 | 79.87 | 78.04 | 0.35 | 1.19 |
| 2.12 | 76.33 | 79.73 | 78.03 | 0.35 | 1.19 |
| 2.17 | 76.38 | 79.69 | 78.03 | 0.35 | 1.19 |
| 2.21 | 76.46 | 79.67 | 78.06 | 0.35 | 1.19 |
| 2.26 | 76.33 | 79.66 | 78.00 | 0.35 | 1.19 |
| 2.31 | 76.32 | 79.74 | 78.03 | 0.35 | 1.19 |
| 2.36 | 76.45 | 79.78 | 78.11 | 0.35 | 1.19 |
| 2.41 | 76.48 | 79.58 | 78.03 | 0.34 | 1.19 |
| 2.46 | 76.31 | 79.63 | 77.97 | 0.35 | 1.19 |
| 2.51 | 76.29 | 79.75 | 78.02 | 0.35 | 1.19 |
| 2.56 | 76.35 | 79.63 | 77.99 | 0.35 | 1.19 |
| 2.61 | 76.25 | 79.69 | 77.97 | 0.35 | 1.19 |
| 2.66 | 76.21 | 79.57 | 77.89 | 0.35 | 1.19 |
| 2.71 | 76.45 | 79.64 | 78.04 | 0.35 | 1.19 |
| 2.76 | 76.49 | 79.51 | 78.00 | 0.34 | 1.19 |
| 2.80 | 76.42 | 79.53 | 77.97 | 0.35 | 1.19 |
| 2.85 | 76.20 | 79.64 | 77.92 | 0.35 | 1.19 |
| 2.90 | 76.20 | 79.78 | 77.99 | 0.35 | 1.19 |
| 2.95 | 76.48 | 79.76 | 78.12 | 0.35 | 1.19 |
| 3.00 | 76.56 | 79.46 | 78.01 | 0.34 | 1.19 |
| 3.05 | 76.35 | 79.31 | 77.83 | 0.34 | 1.19 |
| 3.10 | 76.52 | 79.66 | 78.09 | 0.35 | 1.19 |
| 3.15 | 76.27 | 79.67 | 77.97 | 0.35 | 1.19 |
| 3.20 | 76.24 | 79.82 | 78.03 | 0.35 | 1.19 |
| 3.25 | 76.25 | 79.61 | 77.93 | 0.35 | 1.19 |
| 3.30 | 76.35 | 79.87 | 78.11 | 0.35 | 1.19 |
| 3.35 | 76.22 | 79.69 | 77.95 | 0.35 | 1.19 |
| 3.40 | 76.55 | 79.59 | 78.07 | 0.35 | 1.19 |
| 3.44 | 76.43 | 79.45 | 77.94 | 0.34 | 1.19 |
| 3.49 | 76.39 | 79.50 | 77.95 | 0.34 | 1.19 |
| 3.54 | 76.40 | 79.67 | 78.03 | 0.35 | 1.19 |
| 3.59 | 76.22 | 79.54 | 77.88 | 0.35 | 1.19 |
| 3.64 | 76.33 | 79.67 | 78.00 | 0.35 | 1.19 |
| 3.69 | 76.40 | 79.66 | 78.03 | 0.35 | 1.19 |
| 3.74 | 76.44 | 79.52 | 77.98 | 0.34 | 1.19 |
| 3.79 | 76.19 | 79.64 | 77.92 | 0.35 | 1.19 |
| 3.84 | 76.24 | 79.78 | 78.01 | 0.35 | 1.19 |
| 3.89 | 76.24 | 79.81 | 78.02 | 0.35 | 1.19 |
| 3.94 | 76.31 | 79.67 | 77.99 | 0.35 | 1.19 |
| 3.99 | 76.33 | 79.59 | 77.96 | 0.35 | 1.19 |
| 4.03 | 76.57 | 79.49 | 78.03 | 0.34 | 1.19 |
| 4.08 | 76.52 | 79.47 | 77.99 | 0.34 | 1.19 |
| 4.13 | 76.25 | 79.48 | 77.87 | 0.35 | 1.19 |
| 4.18 | 76.42 | 79.72 | 78.07 | 0.35 | 1.19 |
| 4.23 | 76.33 | 79.71 | 78.02 | 0.35 | 1.19 |
| 4.28 | 76.23 | 79.56 | 77.90 | 0.35 | 1.19 |
| 4.33 | 76.42 | 79.73 | 78.07 | 0.35 | 1.19 |
| 4.38 | 76.50 | 79.47 | 77.98 | 0.34 | 1.19 |
| 4.43 | 76.75 | 79.38 | 78.07 | 0.34 | 1.19 |
| 4.48 | 76.55 | 79.27 | 77.91 | 0.34 | 1.19 |
| 4.53 | 76.27 | 79.66 | 77.96 | 0.35 | 1.19 |
| 4.58 | 76.19 | 79.84 | 78.01 | 0.35 | 1.19 |
| 4.63 | 76.40 | 79.73 | 78.06 | 0.35 | 1.19 |
| 4.67 | 76.54 | 79.55 | 78.05 | 0.34 | 1.19 |
| 4.72 | 76.61 | 79.34 | 77.98 | 0.34 | 1.19 |
| 4.77 | 76.39 | 79.29 | 77.84 | 0.34 | 1.19 |
| 4.82 | 76.44 | 79.35 | 77.90 | 0.34 | 1.19 |
| 4.87 | 76.67 | 79.35 | 78.01 | 0.34 | 1.19 |
| 4.92 | 76.60 | 79.41 | 78.01 | 0.34 | 1.19 |
| 4.97 | 76.45 | 79.46 | 77.96 | 0.34 | 1.19 |
| 5.02 | 76.22 | 79.41 | 77.82 | 0.34 | 1.19 |
| 5.07 | 76.47 | 79.51 | 77.99 | 0.34 | 1.19 |
| 5.12 | 76.44 | 79.68 | 78.06 | 0.35 | 1.19 |
| 5.17 | 76.21 | 79.75 | 77.98 | 0.35 | 1.19 |
| 5.22 | 76.63 | 79.57 | 78.10 | 0.34 | 1.19 |
| 5.26 | 76.52 | 79.28 | 77.90 | 0.34 | 1.19 |

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| 5.31 | 76.41 | 79.33 | 77.87 | 0.34 | 1.19 |
| 5.36 | 76.42 | 79.43 | 77.92 | 0.35 | 1.19 |
| 5.41 | 76.29 | 79.52 | 77.91 | 0.34 | 1.19 |
| 5.46 | 76.31 | 79.33 | 77.82 | 0.34 | 1.19 |
| 5.51 | 76.41 | 79.57 | 77.99 | 0.34 | 1.19 |
| 5.56 | 76.29 | 79.46 | 77.87 | 0.34 | 1.19 |
| 5.61 | 76.49 | 79.50 | 78.00 | 0.34 | 1.19 |
| 5.66 | 76.41 | 79.40 | 77.91 | 0.34 | 1.19 |
| 5.71 | 76.40 | 79.34 | 77.87 | 0.34 | 1.19 |
| 5.76 | 76.13 | 79.44 | 77.79 | 0.34 | 1.19 |
| 5.81 | 76.18 | 79.41 | 77.79 | 0.35 | 1.19 |
| 5.86 | 76.11 | 79.47 | 77.79 | 0.35 | 1.19 |
| 5.90 | 76.48 | 79.60 | 78.04 | 0.35 | 1.19 |
| 5.95 | 76.44 | 79.41 | 77.93 | 0.34 | 1.19 |
| 6.00 | 76.42 | 79.44 | 77.93 | 0.34 | 1.19 |
| 6.05 | 76.10 | 79.74 | 77.92 | 0.35 | 1.19 |
| 6.10 | 76.11 | 79.82 | 77.97 | 0.35 | 1.19 |
| 6.15 | 76.16 | 79.86 | 78.01 | 0.35 | 1.19 |
| 6.20 | 76.34 | 79.39 | 77.86 | 0.34 | 1.19 |
| 6.25 | 76.51 | 79.18 | 77.84 | 0.34 | 1.19 |
| 6.30 | 76.30 | 79.20 | 77.75 | 0.34 | 1.19 |
| 6.35 | 76.18 | 79.58 | 77.88 | 0.35 | 1.19 |
| 6.40 | 76.25 | 79.64 | 77.94 | 0.35 | 1.19 |
| 6.45 | 76.23 | 79.65 | 77.94 | 0.35 | 1.19 |
| 6.49 | 76.13 | 79.61 | 77.87 | 0.35 | 1.19 |
| 6.54 | 76.49 | 79.41 | 77.95 | 0.34 | 1.19 |
| 6.59 | 76.55 | 79.36 | 77.95 | 0.34 | 1.19 |
| 6.64 | 76.38 | 79.40 | 77.89 | 0.34 | 1.19 |
| 6.69 | 76.29 | 79.74 | 78.01 | 0.35 | 1.19 |
| 6.74 | 76.18 | 79.68 | 77.93 | 0.35 | 1.19 |
| 6.79 | 76.03 | 79.64 | 77.84 | 0.35 | 1.19 |
| 6.84 | 76.27 | 79.69 | 77.98 | 0.35 | 1.19 |
| 6.89 | 76.22 | 79.49 | 77.86 | 0.34 | 1.19 |
| 6.94 | 76.54 | 79.55 | 78.04 | 0.34 | 1.19 |
| 6.99 | 76.31 | 79.11 | 77.71 | 0.34 | 1.19 |
| 7.04 | 76.47 | 79.60 | 78.03 | 0.34 | 1.19 |
| 7.09 | 76.26 | 79.50 | 77.88 | 0.35 | 1.19 |
| 7.13 | 76.31 | 79.71 | 78.01 | 0.35 | 1.19 |
| 7.18 | 76.24 | 79.53 | 77.89 | 0.35 | 1.19 |
| 7.23 | 76.26 | 79.67 | 77.97 | 0.35 | 1.19 |
| 7.28 | 76.32 | 79.47 | 77.89 | 0.35 | 1.19 |
| 7.33 | 76.18 | 79.47 | 77.83 | 0.35 | 1.19 |
| 7.38 | 76.25 | 79.47 | 77.86 | 0.35 | 1.19 |
| 7.43 | 76.36 | 79.57 | 77.96 | 0.35 | 1.19 |
| 7.48 | 76.32 | 79.17 | 77.74 | 0.34 | 1.19 |
| 7.53 | 76.32 | 79.50 | 77.91 | 0.34 | 1.19 |
| 7.58 | 76.17 | 79.56 | 77.86 | 0.35 | 1.19 |
| 7.63 | 76.12 | 79.72 | 77.92 | 0.35 | 1.19 |
| 7.68 | 76.18 | 79.37 | 77.78 | 0.34 | 1.19 |
| 7.73 | 76.26 | 79.61 | 77.93 | 0.35 | 1.19 |
| 7.77 | 76.40 | 79.60 | 78.00 | 0.35 | 1.19 |
| 7.82 | 76.42 | 79.52 | 77.97 | 0.34 | 1.19 |
| 7.87 | 76.28 | 79.38 | 77.83 | 0.34 | 1.19 |
| 7.92 | 76.24 | 79.62 | 77.93 | 0.35 | 1.19 |
| 7.97 | 76.25 | 79.62 | 77.93 | 0.35 | 1.19 |
| 8.02 | 76.13 | 79.35 | 77.74 | 0.35 | 1.19 |
| 8.07 | 76.38 | 79.55 | 77.97 | 0.35 | 1.19 |
| 8.12 | 76.28 | 79.50 | 77.89 | 0.35 | 1.19 |
| 8.17 | 76.28 | 79.61 | 77.94 | 0.35 | 1.19 |
| 8.22 | 76.36 | 79.64 | 78.00 | 0.35 | 1.19 |
| 8.27 | 76.33 | 79.40 | 77.87 | 0.34 | 1.19 |
| 8.32 | 76.32 | 79.52 | 77.92 | 0.34 | 1.19 |
| 8.36 | 76.19 | 79.62 | 77.90 | 0.35 | 1.19 |
| 8.41 | 76.30 | 79.59 | 77.94 | 0.35 | 1.19 |
| 8.46 | 76.31 | 79.49 | 77.90 | 0.35 | 1.19 |
| 8.51 | 76.29 | 79.49 | 77.89 | 0.34 | 1.19 |
| 8.56 | 76.46 | 79.48 | 77.97 | 0.34 | 1.20 |
| 8.61 | 76.45 | 79.47 | 77.96 | 0.34 | 1.19 |
| 8.66 | 76.24 | 79.23 | 77.73 | 0.34 | 1.19 |
| 8.71 | 76.31 | 79.43 | 77.87 | 0.34 | 1.19 |
| 8.76 | 76.22 | 79.36 | 77.79 | 0.34 | 1.19 |
| 8.81 | 76.18 | 79.36 | 77.77 | 0.35 | 1.19 |

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|------|-------|-------|-------|------|------|
| 8.86 | 76.13 | 79.41 | 77.77 | 0.35 | 1.19 |
| 8.91 | 76.18 | 79.62 | 77.90 | 0.35 | 1.19 |
| 8.96 | 76.29 | 79.72 | 78.01 | 0.35 | 1.20 |
| 9.00 | 76.23 | 79.55 | 77.89 | 0.35 | 1.19 |
| 9.05 | 76.31 | 79.51 | 77.91 | 0.35 | 1.19 |
| 9.10 | 76.16 | 79.53 | 77.85 | 0.35 | 1.19 |
| 9.15 | 76.30 | 79.66 | 77.98 | 0.35 | 1.20 |
| 9.20 | 75.94 | 79.38 | 77.66 | 0.35 | 1.19 |
| 9.25 | 76.21 | 79.38 | 77.79 | 0.34 | 1.19 |
| 9.30 | 76.49 | 79.28 | 77.88 | 0.34 | 1.19 |
| 9.35 | 76.44 | 79.39 | 77.91 | 0.34 | 1.19 |
| 9.40 | 76.42 | 79.25 | 77.83 | 0.34 | 1.19 |
| 9.45 | 76.40 | 79.62 | 78.01 | 0.35 | 1.20 |
| 9.50 | 76.14 | 79.52 | 77.83 | 0.35 | 1.19 |
| 9.55 | 76.12 | 79.49 | 77.80 | 0.35 | 1.19 |
| 9.59 | 76.13 | 79.65 | 77.89 | 0.35 | 1.19 |
| 9.64 | 76.02 | 79.27 | 77.64 | 0.35 | 1.19 |
| 9.69 | 76.39 | 79.46 | 77.92 | 0.35 | 1.19 |
| 9.74 | 76.22 | 79.29 | 77.75 | 0.34 | 1.19 |
| 9.79 | 76.21 | 79.36 | 77.78 | 0.34 | 1.19 |
| 9.84 | 76.20 | 79.55 | 77.87 | 0.35 | 1.19 |
| 9.89 | 76.12 | 79.42 | 77.77 | 0.35 | 1.19 |
| 9.94 | 76.11 | 79.47 | 77.79 | 0.35 | 1.19 |
| 9.99 | 76.26 | 79.42 | 77.84 | 0.35 | 1.19 |