mass (flask empty) = 17.3223 g
Mass (water) = 24.5 – 17.3223 = 7.17 g
Water density = 0.9977 g/mL
Flask volume = 24.5 / 0.9977 = 7.194 mL
Average flask volume = 9.44 mL
Absolute Deviation = 9.44 – 7.194 = 2.2414
Average absolute deviation = 2.0462
Relative Deviation = 2.2414 – 2.0462 = 0.238
Relative Average Deviation (RAD) = 0.21714

For Part C:

Mass (before addition) = 40.7 g
Mass (after addition) = 45.9 g
Mass (water added) = 45.9 – 40.7 = 5.2 g
Water density = 0.9977 g/mL
Pipet Volume = 5.2 / 0.9977 = 5.21 mL
Average pipet volume = 5.09 mL
Absolute deviation = 5.21 – 5.09 = 0.12
Average absolute value = 0.304
Relative deviation = Absolute Dev. / V (avg.) = 0.12 / 5.09 = 0.02
Relative average deviation (RAD) = 0.056