Correct. Using the rules of exponents, this expression can be simplified like this: $\left(a^{-2}b^{3}c^{-5}\right)^{-4} \cdot \left(b^{6}c^{-2}\right)^{2} = a^{-2(-4)}b^{3(-4)}c^{-5(-4)} \cdot b^{6(2)}c^{-2(2)} = a^{8}b^{-12}c^{20} \cdot b^{12}c^{-4} = a^{8}b^{-12+12}c^{20-4} = a^{8}b^{0}c^{16}$.