

$$\begin{aligned}
& \frac{2[12]\langle 23\rangle[45]^2\langle 3|1+2|4]}{[24][56]\langle 2|1+3|4\rangle^3} + \\
& \frac{2\langle 34\rangle[45]^2\langle 3|1+2|4]s_{123}}{[56]\langle 1|2+3|4\rangle\langle 2|1+3|4\rangle^2\langle 4|5+6|4]} + \\
& \frac{-1/3\langle 23\rangle\langle 34\rangle\langle 46\rangle^2[56]}{\langle 24\rangle^3\langle 1|2+3|4]s_{123}} + \\
& \frac{1/6\langle 34\rangle\langle 46\rangle\langle 3|1+2|5]}{\langle 24\rangle^2\langle 1|2+3|4]s_{123}} + \\
& \frac{1/2\langle 23\rangle\langle 34\rangle[45]\langle 46\rangle}{\langle 24\rangle^2\langle 1|2+3|4\rangle\langle 2|1+3|4]} + \\
& \frac{3/2\langle 34\rangle[45]\langle 46\rangle\langle 3|1+2|4]}{\langle 24\rangle\langle 1|2+3|4\rangle\langle 2|1+3|4\rangle\langle 4|5+6|4]} + \\
& \frac{-1/3\langle 3|1+2|5\rangle^2\langle 4|5+6|4]}{\langle 24\rangle[56]\langle 1|2+3|4\rangle\langle 2|1+3|4]s_{123}}
\end{aligned}$$