

$$\begin{aligned}
& \frac{1/2[12]\langle 13\rangle[14]\langle 46\rangle^2}{\langle 56\rangle\langle 1|2+3|1\rangle^2\langle 4|5+6|4\rangle} + \\
& \frac{-35/18[12]\langle 13\rangle[15]^2}{[14][56]\langle 1|2+3|1\rangle^2} + \\
& \frac{1/2\langle 13\rangle[14]\langle 46\rangle^2}{\langle 12\rangle\langle 56\rangle\langle 1|2+3|1\rangle\langle 4|5+6|4\rangle} + \\
& \frac{3/2[12]\langle 13\rangle\langle 24\rangle[45]\langle 46\rangle}{\langle 12\rangle\langle 56\rangle[56]\langle 1|2+3|1\rangle\langle 4|5+6|4\rangle} + \\
& \frac{\langle 13\rangle[15](-31/18[14]\langle 46\rangle-29/9[12]\langle 26\rangle-31/18[13]\langle 36\rangle)}{\langle 12\rangle[14]\langle 56\rangle[56]\langle 1|2+3|1\rangle} + \\
& \frac{-1/3[12]\langle 13\rangle[15]\langle 46\rangle}{\langle 56\rangle[56]\langle 1|2+3|1\rangle\langle 1|5+6|1\rangle} + \\
& \frac{[12]\langle 13\rangle[45](-29/18[12]\langle 26\rangle-29/18[13]\langle 36\rangle-31/9[14]\langle 46\rangle)}{[14]\langle 56\rangle[56]\langle 1|2+3|1\rangle\langle 1|2+3|4\rangle} + \\
& \frac{1/2[12][14]\langle 16\rangle^2}{[34]\langle 56\rangle\langle 1|5+6|1\rangle\langle 1|2+3|4\rangle} + \\
& \frac{1/3[12]\langle 13\rangle\langle 16\rangle\langle 46\rangle}{\langle 14\rangle\langle 56\rangle\langle 1|5+6|1\rangle\langle 1|2+3|4\rangle} + \\
& \frac{[45](29/9[12]\langle 13\rangle\langle 26\rangle+31/18[13]\langle 36\rangle+11/9[13][14]\langle 46\rangle+1/2[14][14]\langle 36\rangle)}{\langle 12\rangle[14]\langle 56\rangle[56]\langle 1|2+3|4\rangle} + \\
& \frac{-1/4[25]\langle 26\rangle+1/4[45]\langle 46\rangle}{\langle 12\rangle[34]\langle 56\rangle[56]} + \\
& (123456 \rightarrow \overline{-432165})
\end{aligned}$$