$$\frac{-1/2i\langle 15]\langle 3|1+6|5]^3\langle 4|2+3|1]^2\Pi_{462}}{[16\rangle\langle 23\rangle[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]^4} +$$

$$\frac{-1/4i[15][25]\langle 46\rangle\langle 3|1+6|5]^2\langle 4|2+3|1]\langle 5|1+6|4]\Pi_{462}}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]^3\Delta_{624}} +$$

$$\frac{[15\rangle\langle 3|1+6|5]^2\langle 4|2+3|1](-3/2i[12]\langle 23\rangle\langle 24\rangle[24]\dots\langle 9\text{ terms}\rangle\dots-1i[13]\langle 34\rangle\langle 35\rangle[45])}{[16\rangle\langle 23\rangle[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]^3} +$$

$$\frac{[15\rangle\langle 3|1+6|5\rangle\langle 5|1+6|4]\Pi_{462}(-1/8i[12]^2\langle 13\rangle\langle 14\rangle^2[14][15\rangle\langle 26\rangle\dots\langle 105\text{ terms}\rangle\dots-3/16i[15][24]\langle 34\rangle^3[34]^2\langle 46\rangle)}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]^2\Delta_{624}^2} +$$

$$\frac{[15]\langle 3|1+6|5]\Pi_{462}(1/2i\langle 12\rangle[12]^2\langle 14\rangle[14]\langle 36\rangle\dots\langle 10\text{ terms}\rangle\dots-1i[13\rangle\langle 23\rangle[24][26\rangle\langle 36\rangle\langle 46\rangle)}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]^2\Delta_{624}} +$$

$$\frac{[15]\langle 3|1+6|5](-1/2i[12]^2\langle 13\rangle[14]\langle 23\rangle\langle 24\rangle\dots\langle 23\text{ terms}\rangle\dots-3/2i[13][14]\langle 34\rangle^2\langle 35\rangle[45])}{[16\rangle\langle 23\rangle[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]^2} +$$

$$\frac{[15\rangle\langle 5|1+6|4](5/16i\langle 12\rangle^3[12]^4\langle 13\rangle[15\rangle\langle 36\rangle\dots\langle 147\text{ terms}\rangle\dots-5/4i[13\rangle\langle 15\rangle[15\rangle\langle 23\rangle[25\rangle\langle 26\rangle[26]^2\langle 36\rangle^2)}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]\Delta_{624}^2} +$$

$$\frac{[15\rangle\langle 5|1+6|4]\Pi_{462}(3/32i\langle 12\rangle^2[12]^3\langle 13\rangle[15\rangle\langle 36\rangle\dots\langle 119\text{ terms}\rangle\dots+1/4i[15\rangle\langle 23\rangle[25]^2\langle 35\rangle\langle 36\rangle[36\rangle\langle 56\rangle)}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]\Delta_{624}^2} +$$

$$\frac{[15\rangle\langle 5|1+6|4](1i\langle 12\rangle[12]^2\langle 13\rangle[15\rangle\langle 36\rangle\dots\langle 43\text{ terms}\rangle\dots-5/8i[16][25\rangle\langle 36\rangle^3[36])}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]\Delta_{624}} +$$

$$\frac{[15]\Pi_{462}(-3/4i\langle 12\rangle[12]^2\langle 13\rangle[14\rangle\langle 36\rangle\dots\langle 25\text{ terms}\rangle\dots-7/8i[14][26\rangle\langle 36\rangle^3[36])}{[56\rangle\langle 2|1+6|5]\langle 4|1+6|5]\Delta_{624}} +$$

$$\frac{-1/2i\langle 12\rangle[12]^4[15\rangle\langle 23\rangle^3\dots\langle 35\text{ terms}\rangle\dots-3/2i[13][14]^2[15\rangle\langle 34\rangle^3\langle 35\rangle[45]}{[16\rangle\langle 23\rangle[56\rangle\langle 2|1+6|5]\langle 4|2+3|1]\langle 4|1+6|5]} +$$

$$\frac{[15](-935/32i\langle 13\rangle^2[13]^2[14]^2\langle 15\rangle[24\rangle\langle 34\rangle\langle 36\rangle\dots\langle 262\text{ terms}\rangle\dots-47/32i[12\rangle\langle 35\rangle^2[45]^2\langle 56\rangle^3[56]^2)}{[56\rangle\langle 2|1+6|5]\Delta_{624}^2} +$$

$$\frac{7/4i\langle 12\rangle[12]^2\langle 13\rangle[14]^2\langle 36\rangle\dots\langle 21\text{ terms}\rangle\dots+45/8i[12][16\rangle\langle 23\rangle[24]^2\langle 26\rangle\langle 36\rangle}{[56\rangle\langle 2|1+6|5]\Delta_{624}} +$$

$$(123456\to\overline{654321}) +$$

$$\frac{-1/2i\langle 13\rangle^3[46]^3s_{123}^2\Pi_{624}}{\langle 12\rangle\langle 23\rangle[45][56\rangle\langle 1|2+3|6]^4} +$$

$$\frac{\langle 13\rangle[46]s_{123}^2\Pi_{624}(1/4i[12\rangle\langle 13\rangle\langle 15\rangle[46]-1/4i\langle 13\rangle[14]\langle 15\rangle[26]-1/4i\langle 13\rangle[23\rangle\langle 35\rangle[46]-1/4i\langle 15\rangle[26\rangle\langle 35\rangle[45])}{\langle 12\rangle[56\rangle\langle 1|2+3|6]^3\Delta_{624}} +$$

$$\frac{\langle 13\rangle^2[46]^2s_{123}(3/2i\langle 12\rangle[12\rangle\langle 13\rangle[14]\dots\langle 15\text{ terms}\rangle\dots-3/2i\langle 23\rangle[24\rangle\langle 45\rangle[45])}{\langle 12\rangle\langle 23\rangle[45][56\rangle\langle 1|2+3|6]^3} +$$

$$\frac{-3/16i\langle 13\rangle^2\langle 15\rangle[26][46]^2\langle 6|2+3|1]^2s_{123}\Pi_{624}}{\langle 12\rangle[56\rangle\langle 1|2+3|6]^2\Delta_{624}^2} +$$

$$\frac{\langle 13\rangle[46]\langle 6|2+3|1]s_{123}(3/4i[12\rangle\langle 13\rangle\langle 15\rangle[46]+1/4i\langle 13\rangle[14]\langle 15\rangle[26]-3/4i\langle 13\rangle[23\rangle\langle 35\rangle[46]+1/4i\langle 15\rangle[26\rangle\langle 35\rangle[45])}{\langle 12\rangle[56\rangle\langle 1|2+3|6]^2\Delta_{624}} +$$

$$\frac{\langle 13\rangle[46]s_{123}\Pi_{624}(3/4i\langle 12\rangle[12][24\rangle\langle 35\rangle\dots\langle 7\text{ terms}\rangle\dots+1/4i[23\rangle\langle 35\rangle^2[45])}{\langle 12\rangle[56\rangle\langle 1|2+3|6]^2\Delta_{624}} +$$

$$\frac{\langle 13\rangle[46](3/2i\langle 12\rangle[12\rangle\langle 13\rangle^2[14]^2\dots\langle 24\text{ terms}\rangle\dots-3/2i\langle 23\rangle^2[24]^2\langle 45\rangle[45])}{\langle 12\rangle\langle 23\rangle[45][56\rangle\langle 1|2+3|6]^2} +$$

$$\frac{5/128i\langle 16\rangle[16]\langle 23\rangle[23]\langle 45\rangle[45]\langle 3|1+6|2]\langle 5|1+6|4]\langle 6|2+3|1]\Pi_{624}\Pi_{246}\Pi_{462}}{\langle 1|2+3|6]\langle 2|1+6|3]\langle 4|1+6|5]\Delta_{624}^3} +$$

$$\frac{\langle 16\rangle[16]\langle 23\rangle[23]\langle 45\rangle[45]\langle 3|1+6|2]\langle 5|1+6|4]\langle 6|2+3|1](5/32i\Pi_{624}-5/32i\Pi_{246}-5/32i\Pi_{462})}{\langle 1|2+3|6]\langle 2|1+6|3]\langle 4|1+6|5]\Delta_{624}^2} +$$

$$\frac{\langle 13\rangle[46]\langle 6|2+3|1]^2s_{123}(-1/8i[12]\langle 13\rangle\langle 15\rangle[46]\dots\langle 4\text{ terms}\rangle\dots-1/2i\langle 15\rangle[26\rangle\langle 35\rangle[45])}{\langle 12\rangle[56\rangle\langle 1|2+3|6]\Delta_{624}^2} +$$

$$\frac{\langle 13\rangle[46]\langle 6|2+3|1]\Pi_{624}(-5/8i\langle 12\rangle^2[12]^2[24\rangle\langle 35\rangle\dots\langle 19\text{ terms}\rangle\dots+1/16i\langle 15\rangle[15][23\rangle\langle 35\rangle^2[45])}{\langle 12\rangle[56\rangle\langle 1|2+3|6]\Delta_{624}^2} +$$

$$\frac{\langle 13\rangle[46]\Pi_{624}(-1/4i[12][14\rangle\langle 15\rangle\langle 36\rangle\dots\langle 3\text{ terms}\rangle\dots-1/4i[16][24\rangle\langle 36\rangle\langle 56\rangle)}{\langle 12\rangle[56\rangle\langle 1|2+3|6]\Delta_{624}} +$$

$$\frac{\langle 13\rangle[46](-1/4i[12\rangle\langle 13\rangle[14][23\rangle\langle 26\rangle\langle 35\rangle\dots\langle 20\text{ terms}\rangle\dots+1/4i[15][24\rangle\langle 35\rangle^2[35\rangle\langle 56\rangle)}{\langle 12\rangle[56\rangle\langle 1|2+3|6]\Delta_{624}} +$$

$$\frac{\langle 13\rangle[46]\Pi_{624}(1i[12][14\rangle\langle 15\rangle\langle 36\rangle\dots\langle 3\text{ terms}\rangle\dots-1/2i[16][24\rangle\langle 36\rangle\langle 56\rangle)}{\langle 12\rangle[56\rangle\langle 1|2+3|6]\Delta_{624}} +$$

$$\frac{-3/2i\langle 13\rangle^3[14]^3\dots\langle 4\text{ terms}\rangle\dots-1/2i\langle 23\rangle^3[24]^3}{\langle 12\rangle\langle 23\rangle[45][56\rangle\langle 1|2+3|6]} +$$

$$\frac{-1/2i\langle 12\rangle[12]^2\langle 15\rangle[24\rangle\langle 35\rangle\dots\langle 7\text{ terms}\rangle\dots-1/2i[24]^3\langle 25\rangle\langle 34\rangle\langle 45\rangle}{\langle 12\rangle[23\rangle\langle 45\rangle[56\rangle\langle 1|2+3|6]} +$$

$$\frac{-1/2i\langle 12\rangle[12]^3\langle 14\rangle\langle 15\rangle[24\rangle\langle 25\rangle\dots\langle 99\text{ terms}\rangle\dots-1/2i[24]^3\langle 25\rangle\langle 34\rangle[35\rangle\langle 45\rangle^2}{\langle 12\rangle[23\rangle\langle 45\rangle[56\rangle\langle 1|2+6|3]\langle 4|1+5|6]} +$$

$$\frac{2i\langle 12\rangle[12][14]^2\langle 16\rangle^3\langle 56\rangle\dots\langle 43\text{ terms}\rangle\dots-5i\langle 16\rangle[24\rangle\langle 26\rangle[45\rangle\langle 56\rangle^3[56]}{\langle 12\rangle\langle 16\rangle\langle 1|2+6|3]\langle 2|1+6|5]\langle 6|1+2|3]} +$$

$$\frac{1/2i\langle 12\rangle[12]^3[16]^2\langle 23\rangle\langle 36\rangle\dots\langle 24\text{ terms}\rangle\dots+1/2i[14]^2[16]^2[24]\langle 34\rangle^2\langle 46\rangle}{[16\rangle[56\rangle\langle 2|1+6|5]\langle 4|2+3|1]\langle 4|1+5|6]} +$$

$$\frac{-967/32i\langle 13\rangle^2[13]^2[14]^2\langle 15\rangle[24\rangle\langle 34\rangle\langle 36\rangle\dots\langle 639\text{ terms}\rangle\dots-33/8i[12\rangle\langle 36\rangle^2[46]^2\langle 56\rangle^3[56]^2}{\langle 12\rangle[56\rangle\Delta_{624}^2} +$$

$$\frac{-297/8i\langle 13\rangle[13][14][24\rangle\langle 35\rangle\langle 36\rangle\dots\langle 23\text{ terms}\rangle\dots+11i[14][26\rangle\langle 36\rangle^2[46\rangle\langle 56\rangle}{\langle 12\rangle[56\rangle\Delta_{624}}$$