

$$\begin{aligned} & \frac{(13)(34)(35)(46)(-7873/1800(13)(13)-7873/1800(34)(34))}{(14)^2(23)(34)(21+4|3)s_{123}} + \\ & \frac{-7873/1800(46)(34)(26)(41+3|2)}{(14)(24)(56)(21+4|3)s_{123}} + \\ & \frac{-7873/1800(45)(46)(23)(13)^2(34)}{(14)^2(23)(34)(12+3|4)s_{123}} + \\ & \frac{(45)(-7873/1800(12)^2(12)(13)(34)^2(35)\dots\{5\text{ terms}\}\dots-5627/900(12)(15)(12)(14)(24)(13)^2)}{(12)(14)(23)(24)(34)(56)(12+3|4)s_{123}} + \\ & \frac{-5/6(46)^2(34)^2(24)(14)}{(24)(56)(42+3|4)s_{123}} + \\ & \frac{(34)(46)(24)(-13273/360(46)(12)(14)(14)(34)\dots\{8\text{ terms}\}\dots+1127/300(14)(36)(24)^2(24))}{(14)^2(23)(24)(34)(56)(42+3|4)s_{123}} + \\ & \frac{(46)(24)(-13273/360(34)(24)(46)-13273/540(34)(23)(36)-32611/2700(13)(12)(46))}{(14)(34)(56)(42+3|4)s_{123}} + \\ & \frac{(24)(46)(-13873/360(34)(13)(24)(46)\dots\{3\text{ terms}\}\dots+59603/1800(12)(24)(24)(46))}{(23)(24)(34)(56)(42+3|4)s_{123}} + \\ & \frac{5/3(34)(12)(24)(46)^2}{(23)(24)(56)(42+3|4)s_{123}} + \\ & \frac{(13)(45)(5627/900(34)^2(25)(12)^2-5627/900(12)(15)(14)(13)(34)-7873/360(45)(14)(24)(13)(34)+7873/450(13)^2(25)(24)^2)}{(12)(14)(24)(34)(56)(21+3|4)s_{123}} + \\ & \frac{-1127/1800(34)^2(46)^2}{(14)(24)^2(56)s_{123}} + \\ & \frac{(46)(-1127/300(12)(36)(14)(14)(34)\dots\{9\text{ terms}\}\dots-23623/1350(36)(23)(23)(24)(13))}{(12)(14)(23)(24)(34)(56)s_{123}} + \\ & \frac{(36)(-21373/900(12)(23)(36)(24)(34)\dots\{3\text{ terms}\}\dots+7873/360(12)(14)(24)(26)(13))}{(12)(14)(23)(24)(34)(56)s_{123}} + \\ & \frac{(34)(45)(-1127/300(34)(12)(14)(15)\dots\{4\text{ terms}\}\dots-3373/300(13)(34)(24)(35))}{(12)(14)(23)(24)(34)(56)s_{123}} + \\ & \frac{-5/3(34)(13)(24)(46)^2}{(23)(24)^2(34)(56)s_{123}} + \\ & \frac{15/2(s_{13}-s_{14}-s_{24})(42+3|1)(26)(s_{134}-s_{124})(35))}{(21+4|3)\Delta_{14}(23)(56)} + \\ & \frac{-4803541/18720s_{134}(34)(24)(26)^2(34)}{(12)(23)(56)(21+4|3)^3} + \\ & \frac{(24)(26)^2(34)(34)(30(13)(13)-5365141/18720(14)(14)+48859877/93600(23)(23)-30(24)(24))}{(12)(23)(56)(21+4|3)^3} + \\ & \frac{(24)(26)(35)(-7873/300(13)(13)+7873/300(24)(24)-46051877/93600(34)(34)+1836181/7800(12)(12))}{(12)(21+4|3)^3} + \\ & \frac{-1836181/7800(12)(23)(24)(26)^2}{(56)(21+4|3)^3} + \\ & \frac{-5(4(1+2|3)(36)(34)(26)(s_{123}-s_{124})(34))}{(12)(56)(21+4|3)^2(35+6|3)^2} + \\ & \frac{-15(36)(45+6|4)(34)(24)(26)(34)}{(12)(23)(56)(21+4|3)^2(35+6|3)} + \\ & \frac{25/4(s_{13}-s_{14}-s_{24})(42+3|1)(26)(31+4|2)(s_{134}-s_{124})(35))}{(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{(24)(12)(23)(23)(45)^2(15(4)(14)(24)(24)(14)\dots\{11\text{ terms}\}\dots-5(34)(13)(34)(13))}{(14)(56)(12+3|4)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{15/4(45)(24)(12)(36)(13)^2(34)(14)(34)^2\dots\{95\text{ terms}\}\dots-5/2(24)^2(46)(13)^2(23)(24)(13)^2(35)}{(56)(56)(12+3|4)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{(24)(35)(46)(31+4|2)(2473/1440(13)(13)\dots\{3\text{ terms}\}\dots+19127/7200(12)(12))}{(14)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{5(46)(34)(31+4|3)(34)(23)(5)}{(14)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{(34)(46)(s_{23}-s_{56})(-5/8(34)(34)^2(46)-5/8(13)(16)(13)^2)}{(14)(56)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{(45)(24)(12)(136753063/149760(45)(24)(13)(24)(34)\dots\{30\text{ terms}\}\dots+15/4(12)^2(12)^2(15))}{(14)(56)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{5(45)(31+5|23)(12)(23)(24)(13)}{(14)(56)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{-2945233/280800(46)(34)(23)(12)^2(24)(13)(35)\dots\{111\text{ terms}\}\dots-10(46)(23)(34)(23)^2(12)(34)(35)}{(56)(56)(21+4|3)^2\Delta_{14}(23)(56)} + \\ & \frac{(13)(24)(26)(-5(34)^2(45)(14)(34)^2\dots\{31\text{ terms}\}\dots+7873/600(24)(23)(23)(24)(13)(35))}{(12)(14)(23)(56)(56)(12+3|4)(21+4|3)^2} + \\ & \frac{(26)(7873/600(45)(24)(23)(13)(23)^2(24)\dots\{4\text{ terms}\}\dots+7873/1800(45)(24)^3(13)(23)(24)^2)}{(14)(23)(34)(56)(56)(12+3|4)(21+4|3)^2} + \\ & \frac{(12)(26)(57397/3600(13)^2(45)(13)^2(23)\dots\{11\text{ terms}\}\dots+25873/3600(45)(12)(23)(13)(12)(13))}{(14)(23)(56)(56)(12+3|4)(21+4|3)^2} + \\ & \frac{(24)(36)(45)(124873/5400(14)(24)(24)(14)\dots\{11\text{ terms}\}\dots+5623/900(34)(24)(34)(24))}{(23)(56)(56)(12+3|4)(21+4|3)^2} + \\ & \frac{5(24)(12)(36)(13)(34)(35)\dots\{4\text{ terms}\}\dots+5(45)(46)(13)(34)(13)(34)}{(56)(56)(12+3|4)(21+4|3)^2} + \\ & \frac{(46)(122117/4320(24)(12)^2(23)(13)(23)(24)(26)\dots\{11\text{ terms}\}\dots-5(12)(23)(36)(34)^2(23)(24)^2)}{(12)(23)(24)(34)(56)(12+4|3)(21+4|3)^2} + \\ & \frac{1836181/23400(12)(14)(24)(26)^2(34)(13)}{(12)(23)(56)(12+4|3)(21+4|3)^2} + \\ & \frac{(13)(26)(36)(-57317/10800(12)(13)(14)(24)\dots\{9\text{ terms}\}\dots-145127/2700(14)(24)(34)(24))}{(23)(34)(56)(12+4|3)(21+4|3)^2} + \\ & \frac{(13)(-16873/600(12)^2(25)(36)(13)(24)(34)\dots\{4\text{ terms}\}\dots+16873/600(25)(13)(24)^2(26)(13)^2)}{(14)(23)(24)(34)(56)(56)(21+4|3)^2} + \\ & \frac{(13)(24)(35)(46)(36119/600(13)(13)\dots\{4\text{ terms}\}\dots+21373/900(12)(12))}{(12)(14)(56)(56)(21+4|3)^2} + \\ & \frac{(12)(24)(56)(56)(21+4|3)^2}{(12)(24)(56)(56)(21+4|3)^2} + \\ & \frac{(12)(26)(-15(45)(13)(14)(12)\dots\{9\text{ terms}\}\dots-13727/720(12)(13)(13)(35))}{(14)(23)(56)(56)(21+4|3)^2} + \\ & \frac{(13)(23)(35)(46)(-1439681/7800(13)(13)\dots\{4\text{ terms}\}\dots+48373/900(12)(12))}{(24)(34)(56)(56)(21+4|3)^2} + \\ & \frac{(24)(12841067/93600(25)(13)(36)(23)\dots\{10\text{ terms}\}\dots-18447061/93600(34)(45)(13)(36))}{(23)(56)(56)(21+4|3)^2} + \\ & \frac{-853697/10800(25)(13)(46)(23)\dots\{3\text{ terms}\}\dots+1582681/7800(46)(14)(15)(14)}{(56)(56)(21+4|3)^2} + \\ & \frac{-45/2(6(1+4|3)(34)(36)(s_{123}-s_{124}))}{(12)(56)(21+4|3)(35+6|3)^2} + \\ & \frac{(36)(34)(s_{123}-s_{124})(10(23)(26)+15(34)(46))}{(12)(56)(21+4|3)(3$$