

$$\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})^2(23)(56)} + \\ & \frac{-4803541/18720s_{134}(34)(24)(26)^2(34)}{(12)(23)(56)(21+4|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|)} + \\ & \frac{(24)(26)(35)(-7873/300(13)(13)+7873/300(24)(24)-46051877/93600(34)(34)+1836181/7800(12)(12))}{(12)(21+4|3|)} + \\ & \frac{-1836181/7800(12)(23)(24)(26)^2}{(56)(21+4|3|)} + \\ & \frac{-5(4(1+2|3|(36)(34)(26)(s_{123}-s_{124})(34))}{(12)(56)(21+4|3|)^2(35+6|3|)} + \\ & \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}^2(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(4)^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)} + \\ & -2945233/280800(46)(34)(23)(12)^2(24)(13)(35) \dots \{111 \text{ terms}\} \dots -10(46)(23)(34)(23)^2(12)(34)(35) + \\ & \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)(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)(4$$