Pentagon integrals in the final result

$$P_1 = \int d^d k_1 \frac{1}{P(0,0)P(0,-q_2)P(0,q_1)P(m_W^2,-q_2+q_5)P(m_W^2,q_1-q_3)},$$

$$P_2 = \int d^d k_1 \frac{1}{P(0,0)P(0,q_3+q_5)P(m_W^2,q_1-q_4)P(m_W^2,q_1)P(m_Z^2,q_3)},$$

$$P_3 = \int d^d k_1 \frac{1}{P(0,0)P(0,-q_2+q_3)P(m_W^2,q_1-q_4)P(m_W^2,q_1)P(m_Z^2,q_3)},$$

$$P_4 = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1+q_2)P(m_W^2,q_5)P(m_W^2,q_4+q_5)P(m_Z^2,q_2)},$$

$$P_5 = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1-q_5)P(m_W^2,q_3)P(m_W^2,q_4+q_3)P(m_Z^2,q_1)},$$

$$P_6 = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1-q_3)P(m_Z^2,-q_2)P(m_Z^2,q_4-q_2)P(m_Z^2,q_1)},$$

$$P_7 = \int d^d k_1 \frac{1}{P(0,0)P(0,-q_2+q_5)P(m_Z^2,-q_2)P(m_Z^2,q_1-q_4)P(m_Z^2,q_1)},$$

$$P_8 = \int d^d k_1 \frac{1}{P(0,0)P(0,-q_2+q_3)P(m_Z^2,-q_2)P(m_Z^2,q_1-q_4)P(m_Z^2,q_1)},$$

$$P_9 = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1-q_5)P(m_Z^2,-q_2)P(m_Z^2,q_4-q_2)P(m_Z^2,q_1)},$$

$$P_{10} = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1-q_5)P(m_W^2,-q_2)P(m_W^2,q_4-q_2)P(m_W^2,q_1)},$$

$$P_{11} = \int d^d k_1 \frac{1}{P(0,0)P(0,-q_2+q_3)P(m_W^2,-q_2)P(m_W^2,q_1-q_4)P(m_W^2,q_1)}$$

$$P_{12} = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1+q_2)P(m_W^2,q_2)P(m_Z^2,q_5)P(m_Z^2,q_4+q_5)}$$

$$P_{13} = \int d^d k_1 \frac{1}{P(0,0)P(0,-q_2+q_3)P(m_W^2,q_3)P(m_Z^2,q_1-q_4)P(m_Z^2,q_1)}$$

$$P_{14} = \int d^d k_1 \frac{1}{P(0,0)P(0,q_3+q_5)P(m_W^2,q_3)P(m_Z^2,q_1-q_4)P(m_Z^2,q_1)}$$

$$P_{15} = \int d^d k_1 \frac{1}{P(0,0)P(0,q_1-q_5)P(m_W^2,q_1)P(m_Z^2,q_3)P(m_Z^2,q_4+q_3)}$$

where

$$P(m^2,q) = (k_1-q)^2 - m^2 + i\epsilon,$$