

Selection	Additional information	Requirement	
		2017	2018
Signal muon candidates		4 PF loose muons	$\geq 3$ PF loose muons and $\leq 1$ SA muon
$p_T$ ( $ \eta $ )	2 signal muons	$p_T > 13 \text{ GeV}$ ( $ \eta  < 2.0$ )	$p_T > 24 \text{ GeV}$ ( $ \eta  < 2.0$ )
	All 4 signal muons	$p_T > 8 \text{ GeV}$ ( $ \eta  < 2.4$ )	$p_T > 8 \text{ GeV}$ ( $ \eta  < 2.4$ )
Invariant mass	Each dimuon	$m_{\mu\mu_i} < 60 \text{ GeV}$	$m_{\mu\mu_i} < 60 \text{ GeV}$
Fitted dimuon vertex probability	Each dimuon	$P_{\mu\mu_i} > 0.15$	$P_{\mu\mu_i} > P(L_{xy}, \Delta R, N_{SA})$
Dimuon isolation	Each dimuon	$\text{Iso}_{\mu\mu_i} < 2.3 \text{ GeV}$ ( $\Delta R < 0.4$ )	$\text{Iso}_{\mu\mu_i} < 2.3 \text{ GeV}$ ( $\Delta R < 0.4$ )
Fiducial volume	Each dimuon	N/A	$L_{xy} < 16.0 \text{ cm}$ $L_z < 51.6 \text{ cm}$