Channel	Trigger requirement	Lepton selection		
		p_T (GeV)	η	Isolation
$\tau_h\tau_h$	$\tau_h(35)$ & $\tau_h(35)$	$p_T^{\tau_h} > 50$ & 40	$|\eta^{\tau_h}| < 2.1$	MVA τ_h ID
$\mu\tau_h$	$\mu(22)$	$p_T^{\mu} > 23$	$|\eta^{\mu}| < 2.1$	$I^{\mu} < 0.15$
		$p_T^{\tau_h} > 30$	$|\eta^{\tau_h}| < 2.3$	MVA τ_h ID
	$\mu(19)$ & $\tau_h(21)$	$20 < p_T^{\mu} < 23$	$|\eta^{\mu}| < 2.1$	$I^{\mu} < 0.15$
		$p_T^{\tau_h} > 30$	$|\eta^{\tau_h}| < 2.3$	MVA τ_h ID
$e\tau_h$	$e(25)$	$p_T^{e} > 26$	$|\eta^{e}| < 2.1$	$I^{e} < 0.1$
		$p_T^{\tau_h} > 30$	$|\eta^{\tau_h}| < 2.3$	MVA τ_h ID
$e\mu$	$e(12)$ & $\mu(23)$	$p_T^{e} > 13$	$|\eta^{e}| < 2.5$	$I^{e} < 0.15$
		$p_T^{\mu} > 24$	$|\eta^{\mu}| < 2.4$	$I^{\mu} < 0.2$
	$e(23)$ & $\mu(8)$	$p_T^{e} > 24$	$|\eta^{e}| < 2.5$	$I^{e} < 0.15$
		$p_T^{\mu} > 15$	$|\eta^{\mu}| < 2.4$	$I^{\mu} < 0.2$