

Final state	Trigger	Selection criteria
$\mu\tau_h$	$\mu(50)$	$p_T^\mu > 52, p_T^{\tau_h} > 30$
$\mu\tau_h$	Iso $\mu(27)$	$p_T^\mu > 28, p_T^{\tau_h} > 30, I_{rel}^\mu < 0.3, p_T^{\text{miss}} > 30$
$e\tau_h$	$e(115)$	$p_T^e > 120, p_T^{\tau_h} > 30$
$e\tau_h$	Iso $e(35)$	$p_T^e > 38, p_T^{\tau_h} > 30, I_{rel}^e < 0.3, p_T^{\text{miss}} > 30$
μe	$\mu(50)$	$p_T^\mu > 52, p_T^e > 10$
μe	Iso $\mu(27)$	$p_T^\mu > 28, p_T^e > 10, I_{rel}^{\mu,e} < 0.3, p_T^{\text{miss}} > 30$
$e\mu$	$e(115)$	$p_T^e > 120, p_T^\mu > 10$
$e\mu$	Iso $e(35)$	$p_T^e > 38, p_T^\mu > 10, I_{rel}^{\mu,e} < 0.3, p_T^{\text{miss}} > 30$
$\tau_h\tau_h$ (2016)	$p_T^{\text{AK8}}(360) \& m^{\text{AK8}}(30)$	$p_T^{\text{AK8}} > 450, m^{\text{AK8}} > 30$
$\tau_h\tau_h$ (2016)	$H_T(300) \& p_T^{\text{miss}}(110)$	$H_T > 400, p_T^{\text{miss}} > 180$
$\tau_h\tau_h$ (2017–2018)	$p_T^{\text{AK8}}(400) \& m^{\text{AK8}}(30)$	$p_T^{\text{AK8}} > 450, m^{\text{AK8}} > 30$
$\tau_h\tau_h$ (2017–2018)	$H_T(500) \& p_T^{\text{miss}}(100) \& H_T^{\text{miss}}(100)$	$H_T > 700, (p_T^{\text{miss}} + H_T^{\text{miss}}) > 280$