

Category	Signature	Trigger	Signature
<b>H → Hadrons</b>	Lepton + Jets ( $t\bar{t}H \rightarrow \ell\nu jjbbbb$ )	Single Lepton	$1 e/\mu, p_T > 30 \text{ GeV}$ $\geq 4 \text{ jets} + \geq 2 \text{ b-tags}, p_T > 30 \text{ GeV}$
	Dilepton ( $t\bar{t}H \rightarrow \ell\nu\ell\nu jjbbbb$ )	Dilepton	$1 e/\mu, p_T > 20 \text{ GeV}$ $1 e/\mu, p_T > 10 \text{ GeV}$ $\geq 3 \text{ jets} + \geq 2 \text{ b-tags}, p_T > 30 \text{ GeV}$
	Hadronic $\tau$ ( $t\bar{t}H \rightarrow \ell\nu\tau_h[\nu]\tau_h[\nu]jjbb$ )	Single Lepton	$1 e/\mu, p_T > 30 \text{ GeV}$ $2 \tau_h, p_T > 20 \text{ GeV}$ $\geq 2 \text{ jets} + 1\text{-}2 \text{ b-tags}, p_T > 30 \text{ GeV}$
<b>H → Photons</b>	Leptonic ( $t\bar{t}H \rightarrow \ell\nu jjbb\gamma\gamma$ , $t\bar{t}H \rightarrow \ell\nu\ell\nu bb\gamma\gamma$ )	Diphoton	$2 \gamma, p_T > m_{\gamma\gamma}/2 (25) \text{ GeV for 1}^{\text{st}} (2^{\text{nd}})$ $\geq 1 e/\mu, p_T > 20 \text{ GeV}$ $\geq 2 \text{ jets} + \geq 1 \text{ b-tags}, p_T > 25 \text{ GeV}$
	Hadronic ( $t\bar{t}H \rightarrow jjjjbb\gamma\gamma$ )	Diphoton	$2 \gamma, p_T > m_{\gamma\gamma}/2 (25) \text{ GeV for 1}^{\text{st}} (2^{\text{nd}})$ $0 e/\mu, p_T > 20 \text{ GeV}$ $\geq 4 \text{ jets} + \geq 1 \text{ b-tags}, p_T > 25 \text{ GeV}$
	Same-Sign Dilepton ( $t\bar{t}H \rightarrow \ell^\pm\nu\ell^\pm[\nu]jj[j]bb$ )	Dilepton	$2 e/\mu, p_T > 20 \text{ GeV}$ $\geq 4 \text{ jets} + \geq 1 \text{ b-tags}, p_T > 25 \text{ GeV}$
<b>H → Leptons</b>	3 Lepton ( $t\bar{t}H \rightarrow \ell\nu\ell[\nu]\ell[\nu]j[j]bb$ )	Dilepton, Trielectron	$1 e/\mu, p_T > 20 \text{ GeV}$ $1 e/\mu, p_T > 10 \text{ GeV}$ $1 e(\mu), p_T > 7(5) \text{ GeV}$ $\geq 2 \text{ jets} + \geq 1 \text{ b-tags}, p_T > 25 \text{ GeV}$
	4 Lepton ( $t\bar{t}H \rightarrow \ell\nu\ell\nu\ell[\nu]\ell[\nu]bb$ )	Dilepton, Trielectron	$1 e/\mu, p_T > 20 \text{ GeV}$ $1 e/\mu, p_T > 10 \text{ GeV}$ $2 e(\mu), p_T > 7(5) \text{ GeV}$ $\geq 2 \text{ jets} + \geq 1 \text{ b-tags}, p_T > 25 \text{ GeV}$