

HLT selection	Rate (Hz)	Year	Target signal	Acronym
Four AK4 jets $p_{\text{T}} > 70, 50, 40, 35$ GeV, 2 b-jets	60	2022	HH $\rightarrow$ 4b, $t\bar{t}H(H \rightarrow b\bar{b})$	AK4: 4j2b
Four AK4 jets $p_{\text{T}} > 30$ GeV, $H_{\text{T}} > 280$ GeV, 2 b-jets	115	2023		
Four AK4 jets $p_{\text{T}} > 25$ GeV, $H_{\text{T}} > 250$ GeV, 2 b-jets	170	2024		
Four AK4 jets $p_{\text{T}} > 100, 88, 70, 30$ GeV, 1 c-jet $m_{\text{jj}} > 450$ GeV, $ \Delta\eta_{\text{jj}} > 3.5$	15	2023–24	VBF $H \rightarrow c\bar{c}$	AK4: VBF-4j1c
One AK8 jet $p_{\text{T}} > 250$ GeV, $m_{\text{SD}} > 40$ GeV, 1 $X \rightarrow b\bar{b}$ jet	47	2022	Merged $H \rightarrow b\bar{b}$	AK8: 1jX _{βb}
One AK8 jet $p_{\text{T}} > 230$ GeV, $m_{\text{SD}} > 40$ GeV, 1 $X \rightarrow b\bar{b}$ jet	17	2023–24		