Signal		**Validation**	
≥ 3 AK8 jets			
$p_{\mathrm{T}} > 200\,\mathrm{GeV}$ (all jets)			
$|\eta| < 2.4$ (all jets)			
$m_{\mathrm{reg}} > 50\,\mathrm{GeV}$ (all jets)			
Jet assignment			
$\mathrm{H} \to \mathrm{b\overline{b}}$: highest T_{Xbb} score			
$\mathrm{V} \to \mathrm{q\overline{q}}$: out of the remaining jets, the two highest p_{T}			
$\mathbf{V \to q\overline{q}}$ **jet selection**			
$70 < m_{\mathrm{reg}} < 100\,\mathrm{GeV}$ (both jets)			
$T_{\mathrm{Wqq}} > \mathrm{LP\ WP}$ (both jets)			
$\mathbf{H \to b\overline{b}}$ **jet selection**			
$100 < m_{\mathrm{reg}}^{\mathrm{bb}} < 150\,\mathrm{GeV}$		$75 < m_{\mathrm{reg}}^{\mathrm{bb}} < 100\,\mathrm{GeV}$ or $150 < m_{\mathrm{reg}}^{\mathrm{bb}} < 175\,\mathrm{GeV}$	
Pass	**Fail**	**Pass**	**Fail**
$T_{\mathrm{Xbb}}^{\mathrm{bb}} > \mathrm{HP\ WP}$	$T_{\mathrm{Xbb}}^{\mathrm{bb}} < \mathrm{HP\ WP}$	$T_{\mathrm{Xbb}}^{\mathrm{bb}} > \mathrm{HP\ WP}$	$T_{\mathrm{Xbb}} < \mathrm{HP\ WP}$