

| Category | Sub-categories | Selection |
|------------------|-------------------------------|---|
| Global selection | - | $p_{T1} > 25 \text{ GeV}, p_{T2} > 10 \text{ GeV}$ (2016) or 13 GeV $p_T^{\text{miss}} > 20 \text{ GeV}, p_T^{\ell\ell} > 30 \text{ GeV}, m_{\ell\ell} > 12 \text{ GeV}$ $e\mu$ pair with opposite charge |
| 2-jet VBF tagged | Signal region | $60 \text{ GeV} < m_T^H < 125 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$ 2 jets with $p_T > 30 \text{ GeV}$ no b-tagged jet with $p_T > 20 \text{ GeV}$ $m_{jj} > 120 \text{ GeV}$ |
| | Top control region | As signal region, no m_T^H requirement, $m_{\ell\ell} > 50 \text{ GeV}$ at least 1 of the leading jets b-tagged |
| | $\tau^+\tau^-$ control region | As signal region but with $m_T^H < 60 \text{ GeV}$ $30 \text{ GeV} < m_{\ell\ell} < 80 \text{ GeV}$ |