

Cut	Unweighted yield	Weighted yield
$\sigma \cdot \mathcal{L}$	–	123.3
Total MC events	30000	–
Derivation skim	29755	122.2
$E_{\text{T}}^{\text{miss}} > 250 \text{ GeV}$	26606	109.2
$N_{\text{j}} \geq 4$	23395	95.8
$N_b \geq 2$	11651	47.1
Lepton veto	7627	30.7
$p_{\text{T}}^{j_4} > 40 \text{ GeV}$	6924	27.9
$p_{\text{T}}^{j_2} > 80 \text{ GeV}$	6898	27.8
$ \Delta\phi_{\min}(\mathbf{p}_{\text{T},1-4}, \mathbf{p}_{\text{T}}^{\text{miss}}) > 0.4$	6000	24.1
Pass $E_{\text{T}}^{\text{miss}}$ trigger	6000	24.1
$\mathcal{S} > 5$	5994	24.1
$m_{\text{T}}^{b,\min} > 50 \text{ GeV}$	5879	23.6
τ veto	5376	21.6
$m_{\text{T}}^{b,\min} > 200 \text{ GeV}$	4721	19.1
$m_1^{R=1.2} > 120 \text{ GeV}$	4380	17.7
$m_2^{R=1.2} > 120 \text{ GeV}$	2204	8.9
$m_{\text{T}2,\chi^2} > 450 \text{ GeV}$	1786	7.2
$m_1^{R=0.8} > 60 \text{ GeV}$	1754	7.0
$\mathcal{S} > 25$	1162	4.7
$j_1^{R=1.2}(b)$	1087	4.4
$j_2^{R=1.2}(b)$	1008	4.0
$\Delta R(b_1, b_2) > 1$	939	3.8