

Process	Signal region event yield					
	$\tau_{\text{had}}\tau_{\text{had}}$		$\tau_{\text{lep}}\tau_{\text{had}}$ SLT		$\tau_{\text{lep}}\tau_{\text{had}}$ LTT	
SM HH (ggF)	5.4	± 1.1	5.9	± 1.2	1.42	± 0.29
SM HH (VBF)	0.167 ± 0.022		0.200 ± 0.027		0.0547 ± 0.0066	
SM HH (ggF + VBF)	5.6	± 1.1	6.1	± 1.2	1.47	± 0.29
Top-quark	3 850	± 330	65 300	$\pm 5\,600$	4 400	± 460
$Z \rightarrow \tau^+\tau^- + (bb, bc, cc)$	1 200	± 210	1 210	± 130	406	± 67
Single Higgs boson	74	± 15	154	± 20	24.4	± 5.0
Jet \rightarrow fake $\tau_{\text{had-vis}}$ (combined)	—		33 900	$\pm 6\,500$	1 750	± 510
Jet \rightarrow fake $\tau_{\text{had-vis}}$ (multi-jet)	1 350	± 150	—		—	
Jet \rightarrow fake $\tau_{\text{had-vis}}$ ($t\bar{t}$)	2 490	± 330	—		—	
Other backgrounds	228	± 42	1 090	± 210	119	± 21
Total background	9 200	± 640	101 700	$\pm 8\,600$	6 700	± 700
Observed data	8 380		98 456		6 351	