

Expected background	Low- $p_{\text{T}}^{\text{miss}}$ category	High- $p_{\text{T}}^{\text{miss}}$ category
SM $h \rightarrow \gamma\gamma$ (Vh)	2.9 ± 0.1 (stat) ± 0.2 (syst)	1.26 ± 0.05 (stat) ± 0.09 (syst)
SM $h \rightarrow \gamma\gamma$ (ggh, t $\bar{t}h$, VBF)	5.3 ± 0.3 (stat) ± 1.2 (syst)	0.11 ± 0.01 (stat) ± 0.01 (syst)
Nonresonant background	125.1 ± 11.2 (stat)	4.5 ± 2.1 (stat)
Total background	133 ± 11 (stat) ± 1 (syst)	5.9 ± 2.1 (stat) ± 0.1 (syst)
Observed events	159	6