

Analysis	Channel	Category	Number of signal events for $m_H = 125 \text{ GeV}$		
			ggH	VBF	VH + $t\bar{t}H$
$H \rightarrow \gamma^* \gamma \rightarrow \mu\mu\gamma$	$\mu\mu$	EB, high R_9	9.18	0.47	0.33
	$\mu\mu$	EB, low R_9	5.17	0.27	0.18
	$\mu\mu$	EE	3.80	0.20	0.25
	$\mu\mu$	Dijet tag	0.45	0.39	0.01
$H \rightarrow Z\gamma \rightarrow \ell\ell\gamma$	$ee + \mu\mu$	Lepton tag	0.08	0.014	0.33
	ee	Dijet tag	0.34	0.47	0.02
	ee	Boosted	3.38	0.56	0.33
	ee	Untagged 1	5.2	0.15	0.06
	ee	Untagged 2	3.2	0.09	0.04
	ee	Untagged 3	3.9	0.12	0.06
	ee	Untagged 4	2.8	0.08	0.04
	$\mu\mu$	Dijet tag	0.44	0.62	0.02
	$\mu\mu$	Boosted	4.51	0.74	0.44
	$\mu\mu$	Untagged 1	7.6	0.22	0.097
	$\mu\mu$	Untagged 2	4.8	0.14	0.06
	$\mu\mu$	Untagged 3	4.1	0.12	0.06
	$\mu\mu$	Untagged 4	3.5	0.11	0.06