

Event classes		Expected SM Higgs boson signal yield ($m_H=125$ GeV)								Bkg. (GeV^{-1})
		Total	ggH	VBF	WH	ZH	$t\bar{t}H$	σ_{eff} (GeV)	σ_{HM} (GeV)	
7 TeV 5.1 fb^{-1}	Untagged 0	5.8	79.8%	9.9%	6.0%	3.5%	0.8%	1.11	0.98	11.0
	Untagged 1	22.7	91.9%	4.2%	2.4%	1.3%	0.2%	1.27	1.09	69.5
	Untagged 2	27.1	91.9%	4.1%	2.4%	1.4%	0.2%	1.78	1.40	135.
	Untagged 3	34.1	92.1%	4.0%	2.4%	1.3%	0.2%	2.36	2.01	312.
	VBF dijet 0	1.6	19.3%	80.1%	0.3%	0.2%	0.1%	1.41	1.17	0.5
	VBF dijet 1	3.0	38.1%	59.5%	1.2%	0.7%	0.4%	1.65	1.32	3.5
	VH tight ℓ	0.3	—	—	77.2%	20.6%	2.2%	1.61	1.31	0.1
	VH loose ℓ	0.2	3.6%	1.1%	79.1%	15.2%	1.0%	1.63	1.32	0.2
	VH E_T^{miss}	0.3	4.5%	1.1%	41.5%	44.6%	8.2%	1.60	1.14	0.2
	VH dijet	0.4	27.1%	2.8%	43.7%	24.3%	2.1%	1.54	1.24	0.5
$t\bar{t}H$ tags	0.2	3.1%	1.1%	2.2%	1.3%	92.3%	1.40	1.13	0.2	
8 TeV 19.7 fb^{-1}	Untagged 0	6.0	75.7%	11.9%	6.9%	3.6%	1.9%	1.05	0.79	4.7
	Untagged 1	50.8	85.2%	7.9%	4.0%	2.4%	0.6%	1.19	1.00	120.
	Untagged 2	117.	91.1%	4.7%	2.5%	1.4%	0.3%	1.46	1.15	418.
	Untagged 3	153.	91.6%	4.4%	2.4%	1.4%	0.3%	2.04	1.56	870.
	Untagged 4	121.	93.1%	3.6%	2.0%	1.1%	0.2%	2.62	2.14	1400.
	VBF dijet 0	4.5	17.8%	81.8%	0.2%	0.1%	0.1%	1.30	0.94	0.8
	VBF dijet 1	5.6	28.5%	70.5%	0.6%	0.2%	0.2%	1.43	1.07	2.7
	VBF dijet 2	13.7	43.8%	53.2%	1.4%	0.8%	0.8%	1.59	1.24	22.1
	VH tight ℓ	1.4	0.2%	0.2%	76.9%	19.0%	3.7%	1.63	1.24	0.4
	VH loose ℓ	0.9	2.6%	1.1%	77.9%	16.8%	1.5%	1.60	1.16	1.2
	VH E_T^{miss}	1.8	16.3%	2.7%	34.4%	35.4%	11.1%	1.68	1.17	1.3
	VH dijet	1.6	30.3%	3.1%	40.6%	23.4%	2.6%	1.31	1.06	1.0
$t\bar{t}H$ lepton	0.5	—	—	1.6%	1.6%	96.8%	1.34	1.03	0.2	
$t\bar{t}H$ multijet	0.6	4.1%	0.9%	0.8%	0.9%	93.3%	1.34	1.03	0.6	