

Analysis categories	BDT discriminant	$\sigma_{eff}$ (GeV)	$S$	ggH mode fraction (%)	VBF mode fraction (%)	$B$	$S / \sqrt{B}$
ggH cat 0	0.89–1.00	1.7	22	94.2	5.8	79	2.5
ggH cat 1	0.77–0.89	2.1	55	96.4	3.6	399	2.8
ggH cat 2	0.46–0.77	2.4	60	96.0	4.0	1046	1.9
ggH cat 3	0.00–0.46	2.5	21	94.4	5.6	3755	0.3
VBF cat 0	0.94–1.00	1.9	2	23.7	76.3	1	2.2
VBF cat 1	0.78–0.94	2.2	2	42.2	57.8	10	0.8
VBF cat 2	0.00–0.78	2.4	2	61.8	38.2	161	0.2