

Channel	Year	L1 trigger	HLT
MET	2016	$p_{T,L1}^{\text{miss}} > 110$ or 120 GeV	$p_T^{\text{miss}} > 170$ GeV
	2017/2018	$p_{T,L1}^{\text{miss}} > 120$ GeV	$p_T^{\text{miss}} > 180$ GeV
1 electron	2016	$E_{T,L1} > 27$ GeV	$p_T(e) > 32$ GeV
	2017/2018	$E_{T,L1} > 30$ GeV	$p_T(e) > 35$ GeV
1 muon	2016	$p_{T,L1}(\mu) > 22$ GeV	$p_T(\mu) > 24$ GeV
	2017/2018	$p_{T,L1}(\mu) > 25$ GeV	$p_T(\mu) > 27$ GeV
2 electrons	2016–2018	$E_{T,L1}(1) > 22$ and $E_{T,L1}(2) > 10$ GeV	$p_T(e_1) > 22$ and $p_T(e_2) > 10$ GeV
2 muons	2016–2018	$p_{T,L1}(\mu_1) > 15$ and $p_{T,L1}(\mu_2) > 8$ GeV	$p_T(\mu_1) > 17$ and $p_T(\mu_2) > 8$ GeV
FH	2016	Four $E_{T,L1} > 50$ or $H_T > 280$ GeV	Four jets with $p_T > 45$ GeV
		Two $E_{T,L1} > 100$ or one $E_{T,L1} > 200$ GeV	Two jets with $p_T > 100$ GeV and $\Delta\eta_{1,2} < 1.6$
		Two $E_{T,L1} > 100$ or one $E_{T,L1} > 170$ GeV or $H_T > 280$ GeV	Two jets with $p_T > 90$ GeV and two jets with $p_T > 30$ GeV
2017	Four $E_{T,L1} > 60$ or $H_T > 380$ or $E_{T,L1,1} > 70$, $E_{T,L1,2} > 55$, $E_{T,L1,3} > 40$, $E_{T,L1,4} > 35$ and $H_{T,L1} > 280$ GeV	Four jets with $p_{T,1} > 75$ GeV, $p_{T,3} > 45$, $p_{T,4} > 40$ GeV, and $H_T > 300$ GeV	
	Two $E_{T,L1} > 100$ GeV with $\Delta\eta_{1,2} < 1.6$	Two jets with $p_T > 100$ GeV and $\Delta\eta_{1,2} < 1.6$	
2018	Four $E_{T,L1} > 60$ or $H_T > 380$ GeV or $E_{T,L1,1} > 70$, $E_{T,L1,2} > 55$, $E_{T,L1,3} > 40$ GeV, $E_{T,L1,4} > 40$ and $H_{T,L1} > 320$ GeV	Four jets with $p_{T,1} > 75$, $p_{T,2} > 60$ GeV, $p_{T,3} > 45$, $p_{T,4} > 40$ GeV, and $H_T > 330$ GeV	
	Two $E_{T,L1} > 112$ GeV with $\Delta\eta_{1,2} < 1.6$ or two $E_{T,L1} > 150$ GeV	Two jets with $p_T > 116$ GeV and $\Delta\eta_{1,2} < 1.6$	