

Kinematic selections		Search bins (GeV)	Vetoed events
Diphoton category			
	$p_T^\gamma > 40 \text{ GeV}$		
	$p_T^{\text{miss}} > 100 \text{ GeV}$	p_T^{miss} : [100, 115], [115,130], [130,150],	—
	$m_{\gamma\gamma} > 105 \text{ GeV}$	[150,185], [185,250], ≥ 250	
Lepton veto for p_T^ℓ	$> 25 \text{ GeV}$		
Photon+Lepton category			
	$p_T^\gamma > 35 \text{ GeV}$		
	$p_T^{\text{miss}} > 120 \text{ GeV}$	p_T^{miss} : [120, 200], [200, 400], ≥ 400	—
	$p_T^\ell > 25 \text{ GeV}$	H_T : [0,100], [100, 400], ≥ 400	
$m_T(\ell, p_T^{\text{miss}})$	$> 100 \text{ GeV}$	p_T^γ : [35,200], ≥ 200	
Photon+ S_T^γ category			
	$p_T^\gamma > 180 \text{ GeV}$		
	$p_T^{\text{miss}} > 300 \text{ GeV}$	S_T^γ : [600, 800], [800, 1000],	$H_T^\gamma > 2 \text{ TeV}$ if $p_T^{\text{miss}} > 350 \text{ GeV}$
	$S_T^\gamma > 600 \text{ GeV}$	[1000,1300], ≥ 1300	Diphoton, Lepton
$m_T(\gamma, p_T^{\text{miss}})$	$> 300 \text{ GeV}$		
Photon+ H_T^γ category			
	$p_T^\gamma > 100 \text{ GeV}$		
	$p_T^{\text{miss}} > 350 \text{ GeV}$	p_T^{miss} : [350,450], [450, 600], ≥ 600	$H_T^\gamma < 2 \text{ TeV}$
	$H_T^\gamma > 700 \text{ GeV}$	H_T^γ : [700, 2000], ≥ 2000	Diphoton, Lepton
$ \Delta\phi(\pm\vec{p}_T^{\text{miss}}, \vec{p}_T^\gamma) $	> 0.3		