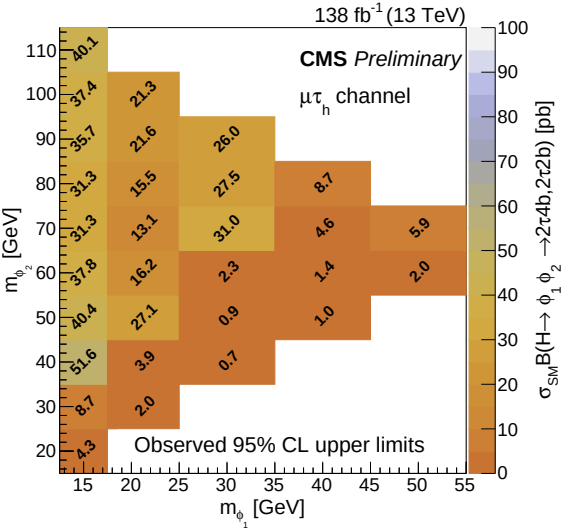
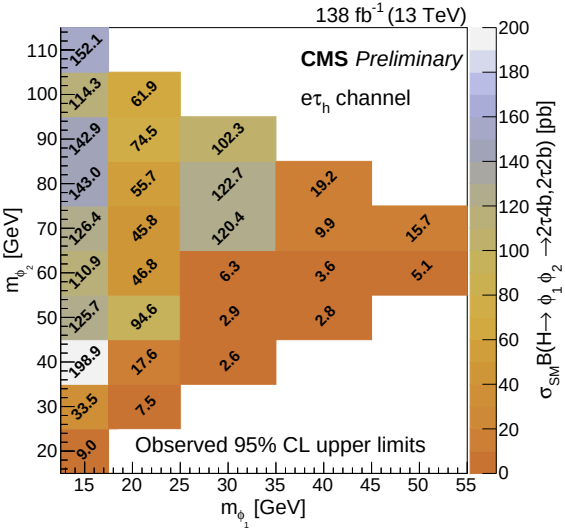
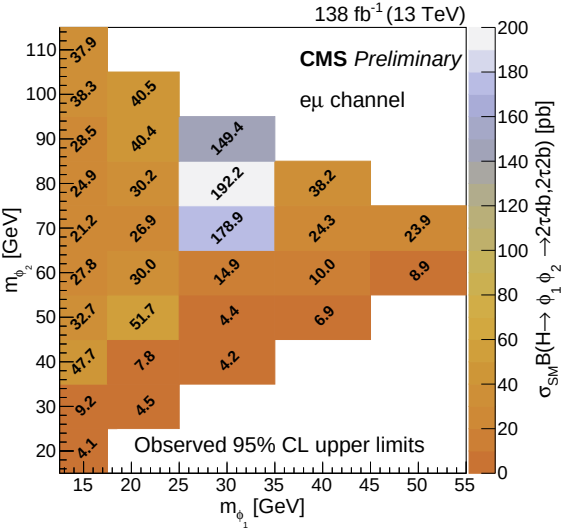
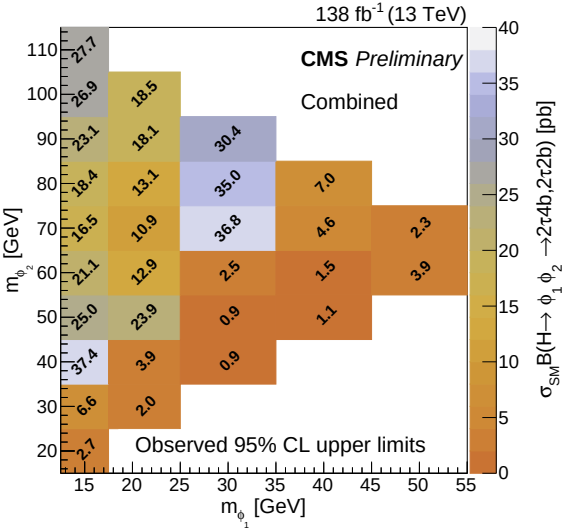

138 fb^{-1} (13 TeV)
CMS Preliminary
$\mu\tau_h$ channel
Observed 95% CL upper limits
m_{ϕ_2} [GeV]
m_{ϕ_1} [GeV]
$\sigma_{SM}B(H\to\phi_1\phi_2\to 2\tau 4b, 2\tau 2b)$ [pb]
40.1
37.4 21.3
35.7 21.6 26.0
31.3 15.5 27.5 8.7
31.3 13.1 31.0 4.6 5.9
37.8 16.2 2.3 1.4 2.0
40.4 27.1 0.9 1.0
51.6 3.9 0.7
8.7 2.0
4.3


138 fb^{-1} (13 TeV)
CMS Preliminary
$e\tau_h$ channel
Observed 95% CL upper limits
m_{ϕ_2} [GeV]
m_{ϕ_1} [GeV]
$\sigma_{SM}B(H\to\phi_1\phi_2\to 2\tau 4b, 2\tau 2b)$ [pb]
152.1
114.3 61.9
142.9 74.5 102.3
143.0 55.7 122.7 19.2
126.4 45.8 120.4 9.9 15.7
110.9 46.8 6.3 3.6 5.1
125.7 94.6 2.9 2.8
198.9 17.6 2.6
33.5 7.5
9.0


138 fb^{-1} (13 TeV)
CMS Preliminary
$e\mu$ channel
Observed 95% CL upper limits
m_{ϕ_2} [GeV]
m_{ϕ_1} [GeV]
$\sigma_{SM}B(H\to\phi_1\phi_2\to 2\tau 4b, 2\tau 2b)$ [pb]
37.9
38.3 40.5
28.5 40.4 149.4
24.9 30.2 192.2 38.2
21.2 26.9 178.9 24.3 23.9
27.8 30.0 14.9 10.0 8.9
32.7 51.7 4.4 6.9
47.7 7.8 4.2
9.2 4.5
4.1


138 fb^{-1} (13 TeV)
CMS Preliminary
Combined
Observed 95% CL upper limits
m_{ϕ_2} [GeV]
m_{ϕ_1} [GeV]
$\sigma_{SM}B(H\to\phi_1\phi_2\to 2\tau 4b, 2\tau 2b)$ [pb]
27.7
26.9 18.5
23.1 18.1 30.4
18.4 13.1 35.0 7.0
16.5 10.9 36.8 4.6 2.3
21.1 12.9 2.5 1.5 3.9
25.0 23.9 0.9 1.1
37.4 3.9 0.9
6.6 2.0
2.7