



Observed and expected distributions in the VBF category in bins of  $m_{\tau\tau}$ ,  $m_{J\bar{J}}$ , and  $D_{0h+}$  in the  $f_{a2}$  analysis for the  $e\mu + e\tau_h + \mu\tau_h$  (upper) and  $\tau_h\tau_h$  (middle and lower) decay channels.