

Process	$t\bar{t}H(H\rightarrow c\bar{c})$ SR	$t\bar{t}H(H\rightarrow b\bar{b})$ SR	$t\bar{t}Z(Z\rightarrow c\bar{c})$ SR	$t\bar{t}Z(Z\rightarrow b\bar{b})$ SR	$t\bar{t}+\geq 2b$ CR	$t\bar{t}+b$ CR	$t\bar{t}+\geq 2c$ CR	$t\bar{t}+c$ CR	$t\bar{t}+\text{light}$ CR
$t\bar{t}H(H\rightarrow c\bar{c})$	-2.5 ± 4.4	-0.06 ± 0.62	-0.5 ± 1.8	-0.02 ± 0.35	-0.13 ± 0.83	-0.04 ± 0.51	-1.2 ± 2.8	-0.4 ± 1.5	-4.4 ± 5.2
	(1.5 ± 2.8)	(0.03 ± 0.37)	(0.3 ± 1.1)	(0.01 ± 0.21)	(0.08 ± 0.50)	(0.02 ± 0.31)	(0.7 ± 1.7)	(0.24 ± 0.97)	(2.7 ± 3.2)
$t\bar{t}H(H\rightarrow b\bar{b})$	2.4 ± 3.1	20.2 ± 9.6	1.3 ± 2.1	6.4 ± 4.7	37 ± 12	18.6 ± 8.1	4.1 ± 3.4	1.8 ± 2.4	45 ± 11
	(2.7 ± 3.4)	(22 ± 11)	(1.4 ± 2.2)	(7.1 ± 5.2)	(40 ± 13)	(20.8 ± 9.0)	(4.4 ± 3.6)	(2.1 ± 2.6)	(50 ± 13)
$t\bar{t}Z(Z\rightarrow c\bar{c})$	1.9 ± 2.7	0.11 ± 0.64	9.9 ± 7.1	0.21 ± 0.90	0.4 ± 1.1	0.12 ± 0.71	4.3 ± 4.2	1.2 ± 2.2	14.2 ± 7.4
$t\bar{t}Z(Z\rightarrow b\bar{b})$	0.7 ± 2.1	3.8 ± 4.7	1.1 ± 2.7	16 ± 11	19 ± 11	9.1 ± 7.2	2.1 ± 3.1	0.9 ± 2.2	23 ± 10
$t\bar{t}+\geq 2b$	12.7 ± 7.9	45 ± 16	11.8 ± 7.4	52 ± 17	370 ± 42	121 ± 24	52 ± 15	14.3 ± 8.0	385 ± 40
$t\bar{t}+b$	19 ± 14	14 ± 13	16 ± 12	17 ± 14	120 ± 32	303 ± 56	54 ± 22	37 ± 19	727 ± 81
$t\bar{t}+\geq 2c$	67 ± 21	1.9 ± 3.7	63 ± 20	2.4 ± 3.3	16.0 ± 7.7	5.5 ± 5.6	214 ± 35	44 ± 15	524 ± 52
$t\bar{t}+c$	61 ± 28	1.7 ± 4.0	49 ± 24	3.4 ± 6.8	16 ± 11	23 ± 16	121 ± 37	166 ± 43	1290 ± 120
$t\bar{t}+\text{light}$	50 ± 14	1.7 ± 2.7	44 ± 12	1.8 ± 2.7	8.1 ± 4.7	11.2 ± 6.1	60 ± 14	54 ± 13	1470 ± 74
Other	15 ± 18	2.8 ± 7.3	24 ± 24	5.4 ± 9.7	22 ± 17	8.5 ± 8.1	32 ± 25	13 ± 14	313 ± 75
Total	228 ± 14	90.7 ± 7.9	220 ± 14	103.6 ± 9.1	608 ± 22	499 ± 19	541 ± 27	332 ± 18	4790 ± 110
Data	236	93	204	92	605	463	546	343	4784