

Defect ASICs summary

	Feb/02- Sep/02	Sep/02-Dec/02	Dec/02-Feb/03	All
Total	113	102	206	421
# of Hybrid with defect ASICs	11	20	22	53
# of defect ASICs	11	20	27	58
Rate (Hybrid)	9.73%	19.61%	10.68%	12.58%
Rate (ASIC)	0.81%	1.63%	1.09%	1.14%

Defect ASICs breakdown

	No.
DEAD	5
STUCK CELL	2
Large gain spread	9
Trim DAC loading failed	0
Negative offset	7
High offset	2
Low gain	1
Abnormal calibration line	1
Total	27
Rate(ASIC)	1.14%

Summary of Defect Channels in Hybrids

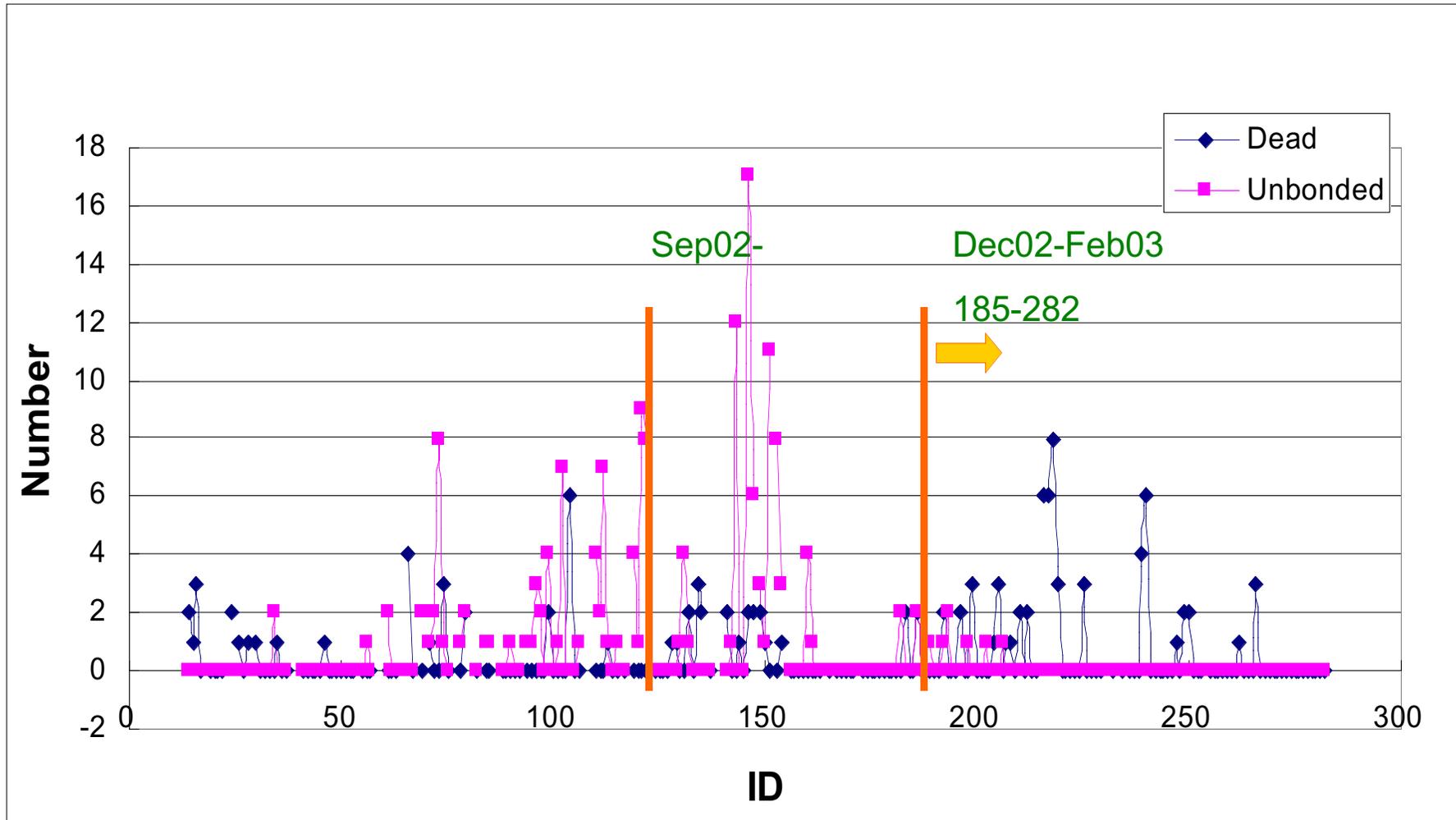
	Feb/02- Sep/02 (1-165)	Sep/02-Dec/02 (166-244)	Dec/02-Feb/03 (245-343)	All (1-343)
Entry(hybrid)	137	77	95	309
Pipeline(ch)	2	4	0	6
DEAD(ch)	2	9	0	11
STUCK(ch)	3	13	0	16
Noisy(ch)	29	15	18	62
Total(ch)	36	41	18	95
average(ch)	0.26	0.53	0.19	0.31

Summary of Defect Channels in Modules

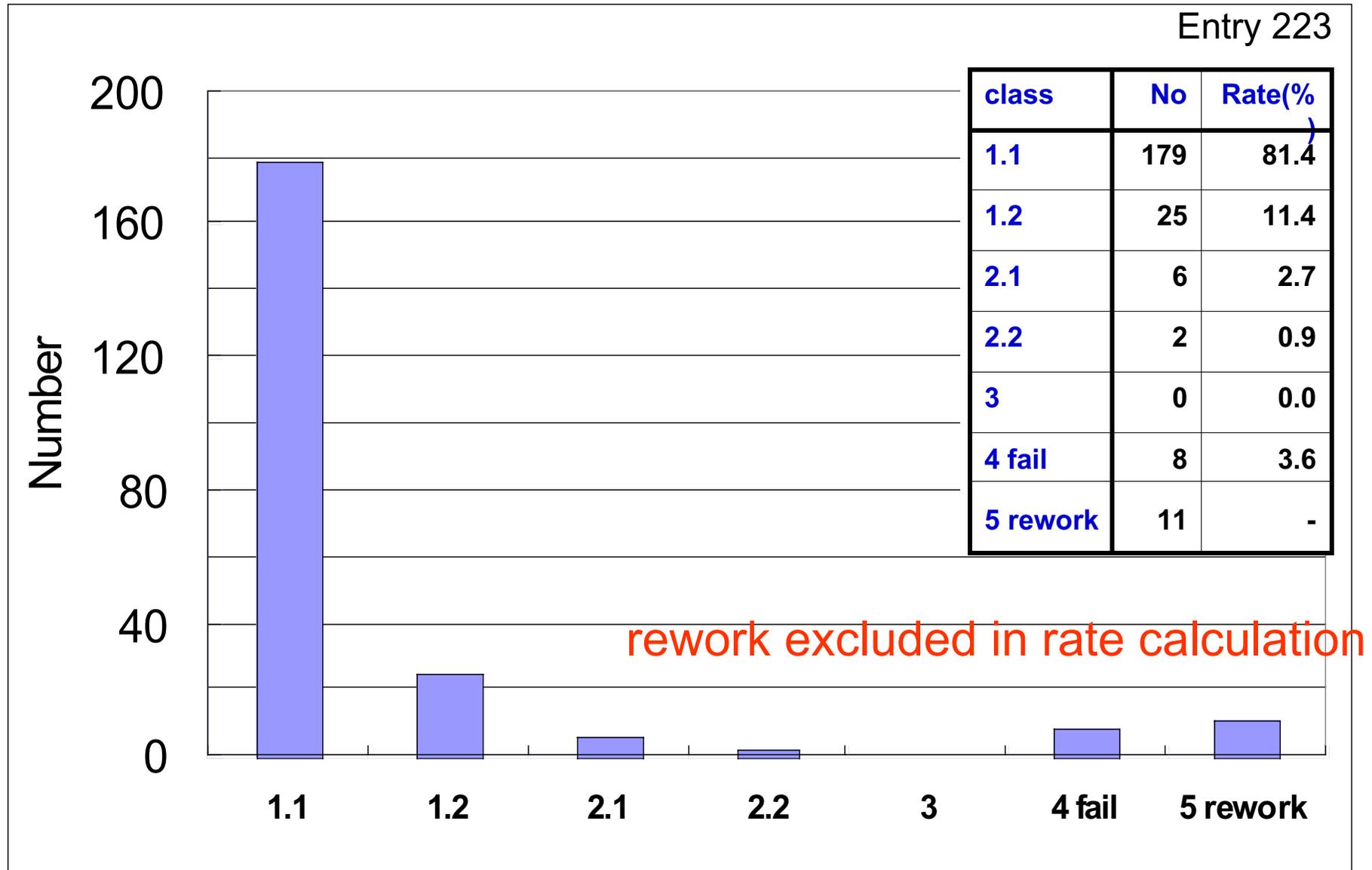
	Feb/02- Sep/02 (1-125)	Sep/02- Dec/02 (126-184)	Dec/02-Feb/03 (185-282)	All (1-282)
Entry(Module)	95	50	90	235
Pipeline(ch)	1(1)	1(1)	3(4)	5(6)
DEAD(ch)	3(2)	0(0)	9(9)	12(11)
STUCK(ch)	3(3)	0(0)	13(13)	16(16)
Noisy(ch)	32(17)	25(14)	40(19)	97(50)
unbonded(ch)	95	76	9	180
Total(ch)	134	102	74	310
average(ch)	1.4	2.0	0.8	1.3

* (Hybrid)

Defect Channels in Modules



Module Class categories



Failure Modules

Module ID	Reason
20220170200018	facing scratch
20220170200025	IV
20220170200029	sensor scratch
20220170200034	IV
20220170200146	# of unbonded 16
20220170200160	IV
20220170200188	sensor surface distortion
20220170200202	IV

Rework Modules

Module ID	Reason
20220170200010	ASIC to replace
20220170200023	ASIC to replace
20220170200038	ASIC to replace
20220170200040	ASIC to replace
20220170200090	WB damaged due to miss handling
20220170200155	link1 (PA-ASIC) half-unbonded
20220170200230	Hybrid connector to repair
20220170200231	Hybrid connector to repair
20220170200233	Hybrid connector to repair
20220170200245	Hybrid connector to repair
20220170200254	Hybrid connector to repair
total	11