

Table 1 Analysis of variance for experimental design for different characters

Source of variation	d.f.	Days to 50% flowering	Days to first harvest	Plant height (cm)	Average fruit weight (g)	Number of fruits/plant	Total yield (kg/plant)	Fruit Harvesting Span (days)	Fruit shape index	Pericarp thickness (cm)	Number of locules per fruit	TSS (%)	Lycopene content (mg/100 g)
Replication	2	1.11	27.41	1138.82**	53.24**	58.50**	0.07	110.98**	0.01	0.02**	0.63**	0.01	0.09
Parent	14	54.34**	278.39**	2185.79**	553.77**	266.15**	0.24**	122.12**	0.04**	0.06**	0.94**	0.37**	1.48**
Line	10	51.45**	195.08**	2576.53**	736.98**	348.95**	0.26**	143.23**	0.05**	0.07**	0.51**	0.44**	1.47**
Tester	3	81.41**	594.74**	1407.98**	91.21**	78.42**	0.19**	70.88**	0.01**	0.05**	1.17**	0.23**	1.62**
Line vs Tester	1	2.01	162.39**	611.89**	109.34**	1.28	0.18*	64.73*	0.04*	0.09*	1.28**	0.07	1.24**
Parent vs Hybrid	1	132.41**	0.06	371.28*	26.11*	230.21**	1.16**	153.75**	0.02**	0.05**	1.56**	0.64**	0.00
Hybrid	43	78.12**	171.76**	1702.79**	692.18**	323.88**	0.59**	172.76**	0.04**	0.06**	1.10**	0.57**	1.52**
Error	116	6.75	18.26	65.49	6.05	7.28	0.29	14.12	0.002	0.002	0.07	0.043	0.095

*, ** significant at 5% and 1% level, respectively