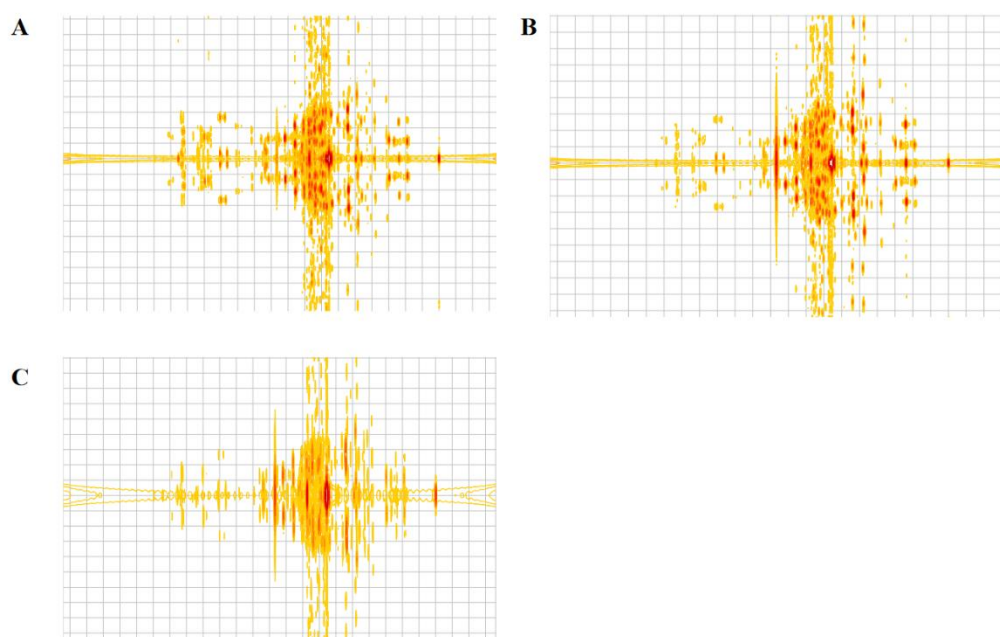


Supplementary Material



Supplementary Figure S1 (A) 2D J-resolve of FH-142; (B) 2D J-resolve of 496; (C) 2D J-resolve of MAC

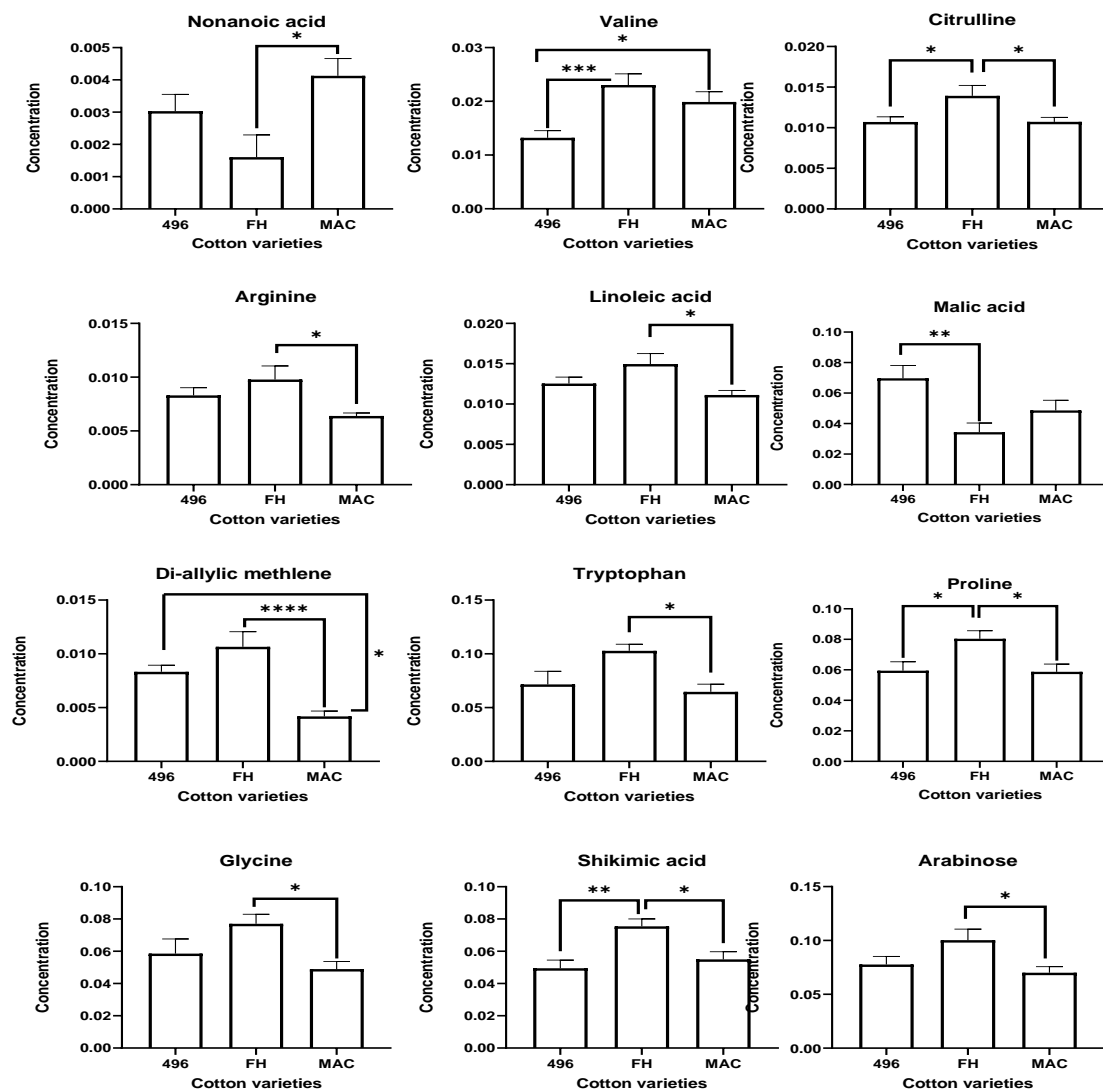


Figure S2 (A) Relative quantification of metabolites

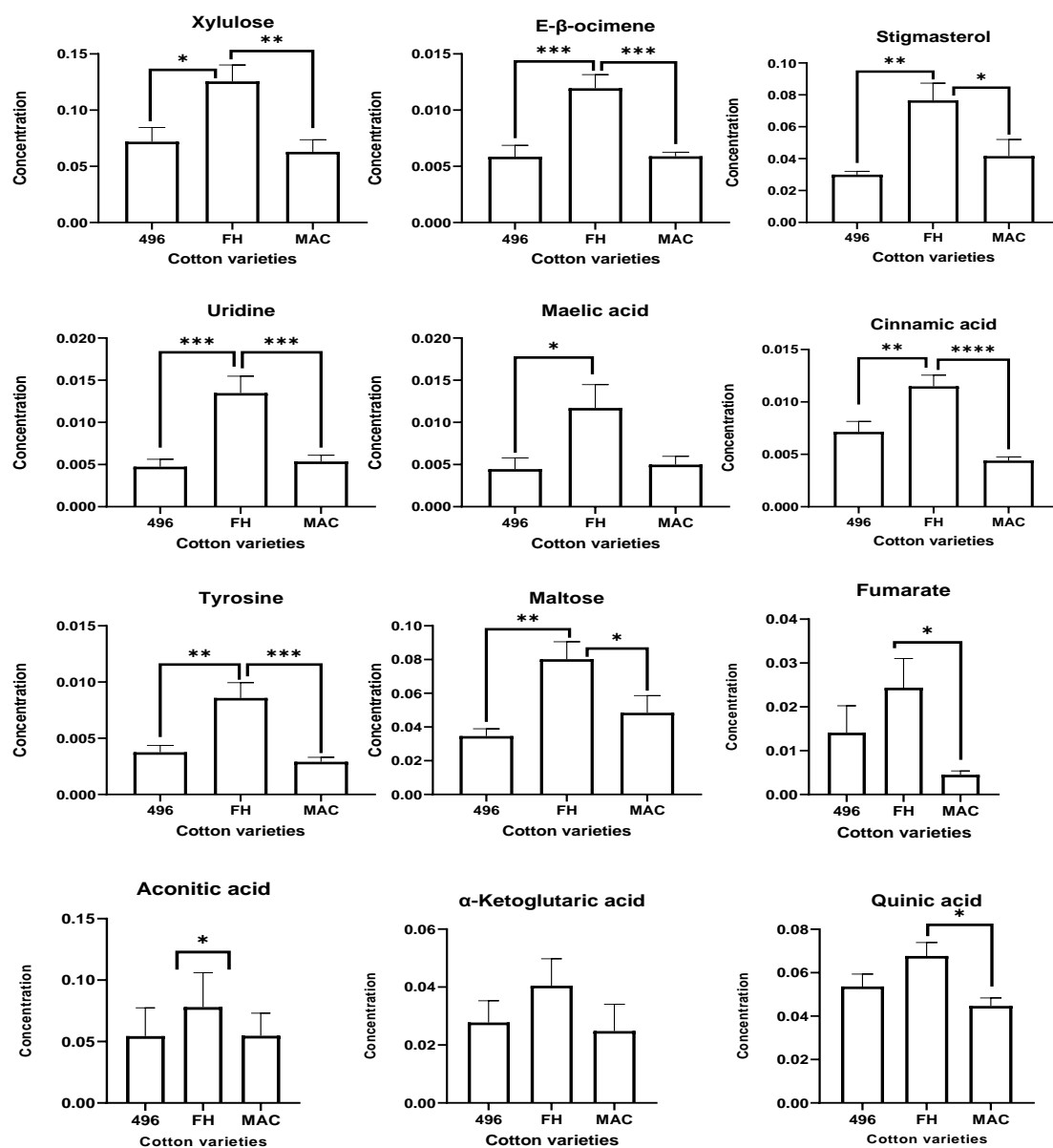


Figure S2 (B) Relative quantification of metabolites

Supplementary Table S1 Relative quantification of metabolites in different cotton varieties

Sr. No.	Metabolites	Concentration of metabolites \pm SEM			Probability		
		496	FH	MAC	496×FH	496×MAC	FH × MAC
1	Nonanoic acid	0.0030 \pm 0.0005	0.0016 \pm 0.0006	0.0041 \pm 0.0005	ns	Ns	*
2	Valine	0.0132 \pm 0.0013	0.0230 \pm 0.0020	0.0198 \pm 0.0019	* *	*	ns
3	Citrulline	0.0107 \pm 0.0006	0.0139 \pm 0.0012	0.0107 \pm 0.0005	*	Ns	*
4	Arginine	0.0083 \pm 0.0007	0.0097 \pm 0.0012	0.0063 \pm 0.0002	ns	Ns	*
5	Malic acid	0.0697 \pm 0.0083	0.0343 \pm 0.0060	0.0486 \pm 0.0066	* *	Ns	ns
6	Di-allylic methylene	0.0083 \pm 0.0006	0.0107 \pm 0.0014	0.0041 \pm 0.0005	ns	* *	* * * *
7	Asparagine	0.0053 \pm 0.0005	0.0052 \pm 0.0013	0.0021 \pm 0.0005	ns	*	*
8	Tryptophan	0.0716 \pm 0.0123	0.103 \pm 0.0061	0.0646 \pm 0.0071	ns	Ns	*
9	Proline	0.0594 \pm 0.0058	0.0804 \pm 0.0052	0.0587 \pm 0.0050	*	Ns	*
10	Glycine	0.0585 \pm 0.0090	0.0771 \pm 0.0059	0.0489 \pm 0.0047	ns	Ns	*
11	Shikimic acid	0.0494 \pm 0.0051	0.0755 \pm 0.0045	0.0550 \pm 0.0047	* *	Ns	*

12	Arabinose	0.0777 ± 0.0074	0.100 ± 0.0102	0.0701 ± 0.0055	ns	Ns	*
13	Xylulose	0.0719 ± 0.0126	0.126 ± 0.0146	0.0629 ± 0.0108	*	Ns	* *
14	E-β- ocimene	0.0058 ± 0.0010	0.0119 ± 0.0012	0.0058 ± 0.0003	* * *	Ns	* * *
15	Stigmaster ol	0.0299 ± 0.0020	0.0765 ± 0.0109	0.0416 ± 0.0104	* *	Ns	*
16	Maltose	0.0346 ± 0.0043	0.0802 ± 0.0104	0.0484 ± 0.0102	* *	Ns	*
17	Uridine	0.0047 ± 0.0008	0.0135 ± 0.0020	0.0053 ± 0.0007	* * *	Ns	* * *
18	Maelic acid	0.0044 ± 0.0013	0.0117± 0.0027	0.0050 ± 0.0009	*	Ns	ns
19	Cinnamic acid	0.0071 ± 0.0010	0.0115 ± 0.0010	0.0044 ± 0.0003	* *	ns	* * * *
20	Tyrosine	0.0037 ± 0.0005	0.0085 ± 0.0013	0.0029 ± 0.0003	* *	Ns	* * *
21	Fumarate	0.0141± 0.0061	0.0243± 0.066	0.0045± 0.0008	ns	Ns	*
22	Aconitic acid	0.0541± 0.0066	0.0780± 0.0080	0.0546± 0.0053	*	Ns	ns
23	α- Ketoglutari c acid	0.0277± 0.0075	0.0404± 0.0093	0.0248± 0.0092	ns	Ns	ns
24	Succinic acid	0.0176± 0.0093	0.0315± 0.0172	0.0134± 0.0048	ns	Ns	ns
25	Quinic acid	0.0536± 0.0057	0.0677± 0.0061	0.0446± 0.0036	ns	Ns	*
26	Ferulic acid	0.0047± 0.0008	0.0090± 0.001	0.0045± 0.0004	* *	Ns	* * *