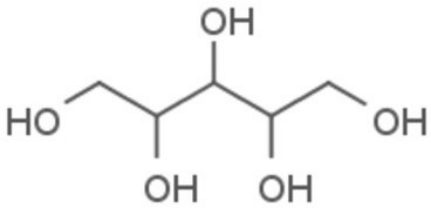
5.0. Supplementary information

Supplementary table 1 | Primers used for relative RT-PCR experiments

Transcript name	Forward primer sequence	Reverse Primer sequence	Amplicon size (bp)
MiFBA6	CCAGAGGTGATTGCTGAGTA	GTGACCATGGTTTCTTTCCC	157
MiDHS1	GAATCCTAAGGCCTCATCGA	CGCAGCCACTCTTAATCTTC	154
MiCHS1	GTGTCTACCAGGCTGACTAC	TAGCGCTTCTTGATCATGGA	118
MiTPS14	GATTGGCCATTATTGACGCT	ATGGGTCACTGGTCGATATC	108
MiGAD1	AAGTGATGAGCAGTGGAAGA	CATCCATCAAATAAGCCGCA	146
MiWun1	CTTTTCCGGGTCTAGTCCTT	TCGCTCACATCTCTCTTTGT	142
MiGI	ATCCCACTTGCATCTAACCA	CCTCATGGGGTTACAGTTCT	128
MiNRX1	GAATCACCAGGTAAGGGACA	TTTCGGGTGATGAGGATGAA	141
MiCAT1	GTGTCTACCAGGCTGACTAC	TAGCGCTTCTTGATCATGGA	118
MiPER42	TAAGTGTCCAGACCCAATCC	CACAATTAGCAAGCCCTTGT	127
MiGSTF6	TCCTCAGCAATGTATTGGGT	TGGTAAACATGAGAGCTGGT	136
MiACT1	AAGATCAAGGTGGTAGCTCC	ATGGACCCGACTCATCATAC	127

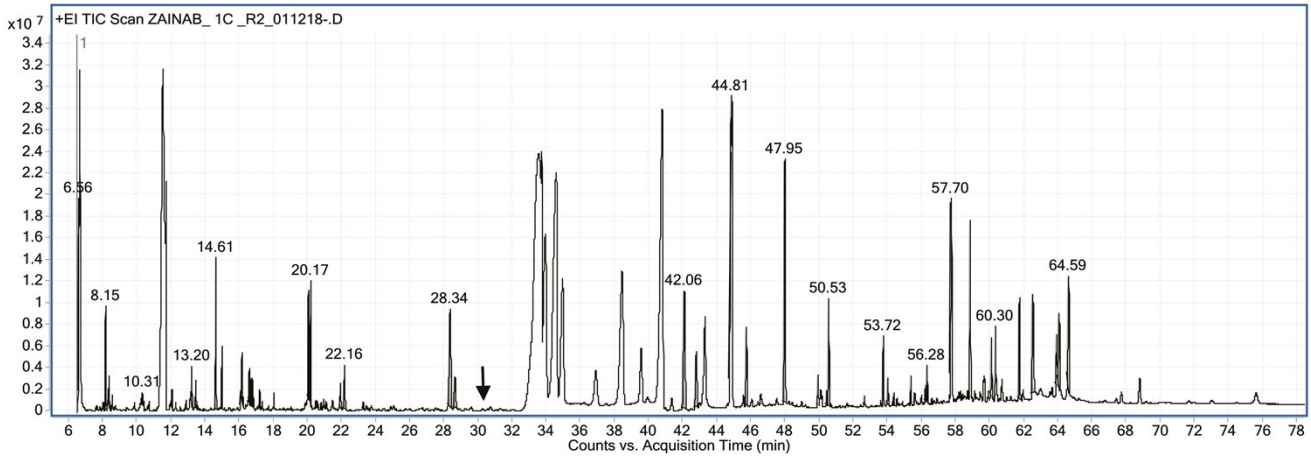
Supplementary figure S1 | GC-MS Chromatograms and internal standard



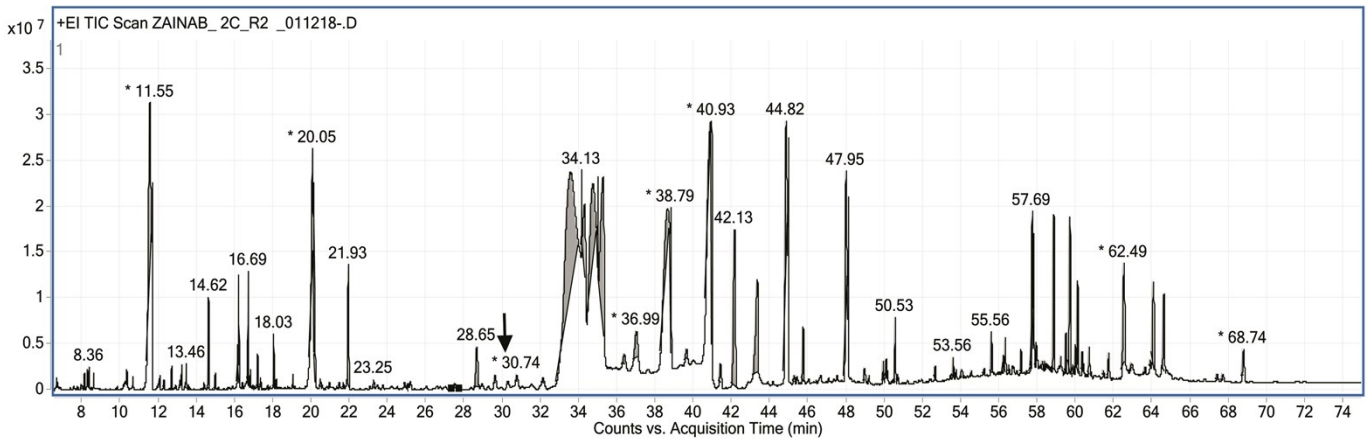
Ribitol

Representative GC–MS trace volatiles analyzed in the methanol extracts of Chaunsa mango (A) Inflorescence (Stage 1, Day 0), (B) nascent fruitlets (Stage 2, 18 DAF), (C) fruitlets (Stage 3, 34 DAF), (D) un-ripe fruit (Stage 4, 62 DAF), (E) un-ripe fruit (Stage 5, 79 DAF), (F) un-ripe fruit (Stage 6, 92 DAF), (G) harvested un-ripe mango (Stage 7, 10 DAH) and (H) harvested ripe mango (Stage 8, 15 DAH). As analyzed on 7000C triple quadrupole mass spectrometer, coupled to a gas chromatograph. The arrow represents the internal standard ribitol peak in the region (retention time, 30.47 minutes). The main regions and peaks are described in the chromatograms.

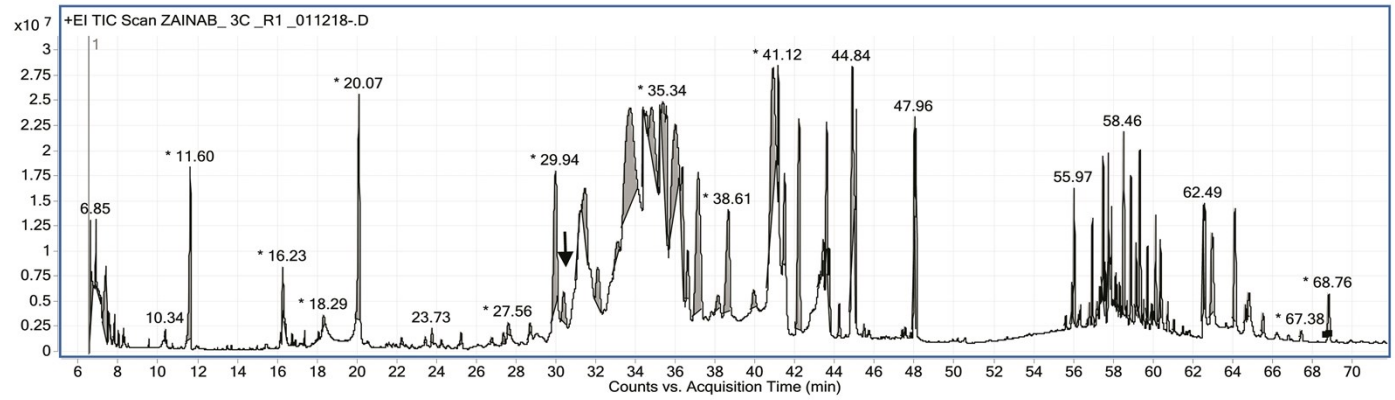
(A)



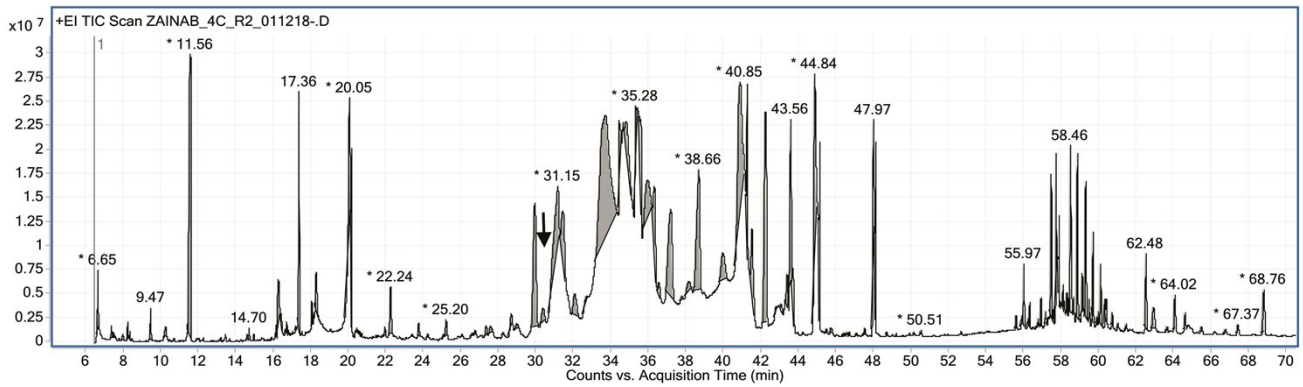
(B)


x10 7
+EI TIC Scan ZAINAB_ 2C_R2 _011218-.D
* 11.55
* 20.05
34.13
* 40.93
44.82
47.95
* 38.79
42.13
57.69
16.69
21.93
14.62
* 62.49
18.03
50.53
55.56
28.65
* 36.99
53.56
* 68.74
8.36
13.46
* 30.74
23.25
Counts vs. Acquisition Time (min)

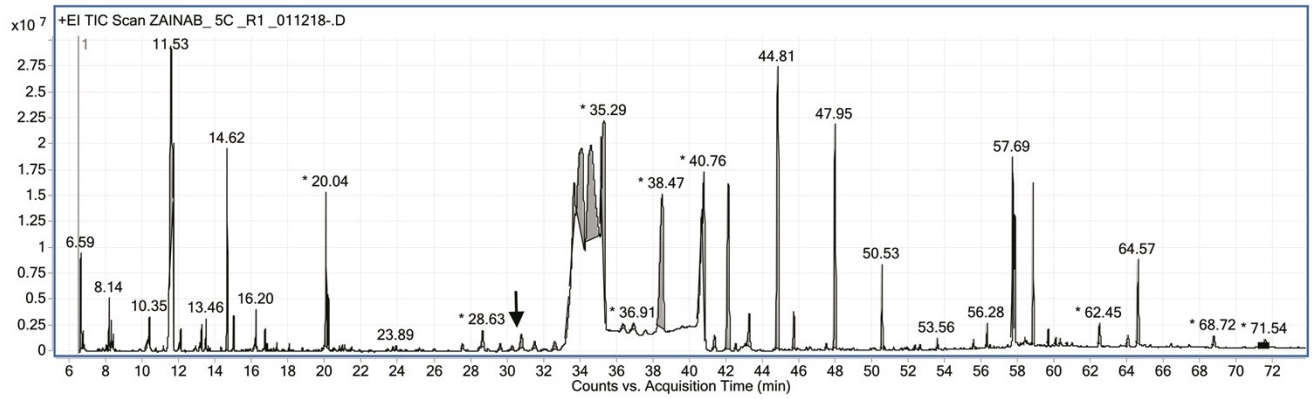
(C)


x10 7
+EI TIC Scan ZAINAB_ 3C _R1 _011218-.D
* 41.12
44.84
* 20.07
* 35.34
47.96
58.46
* 11.60
* 29.94
55.97
62.49
6.85
* 38.61
* 16.23
* 68.76
* 18.29
10.34
23.73
* 27.56
* 67.38
Counts vs. Acquisition Time (min)

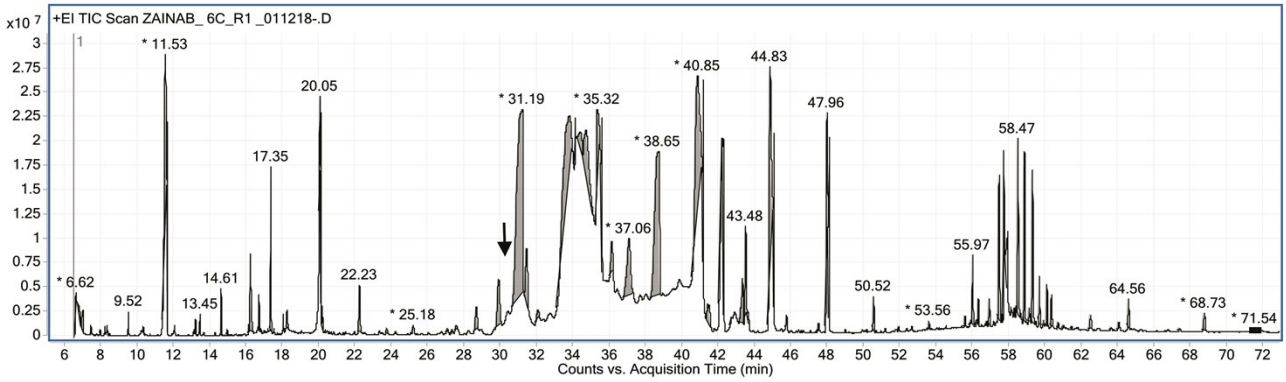
(D)


x10 7
+EI TIC Scan ZAINAB_4C_R2_011218-.D
* 6.65
9.47
* 11.56
14.70
17.36
* 20.05
* 22.24
* 25.20
* 31.15
* 35.28
* 38.66
* 40.85
* 44.84
43.56
47.97
* 50.51
55.97
58.46
62.48
* 64.02
* 67.37
* 68.76
Counts vs. Acquisition Time (min)

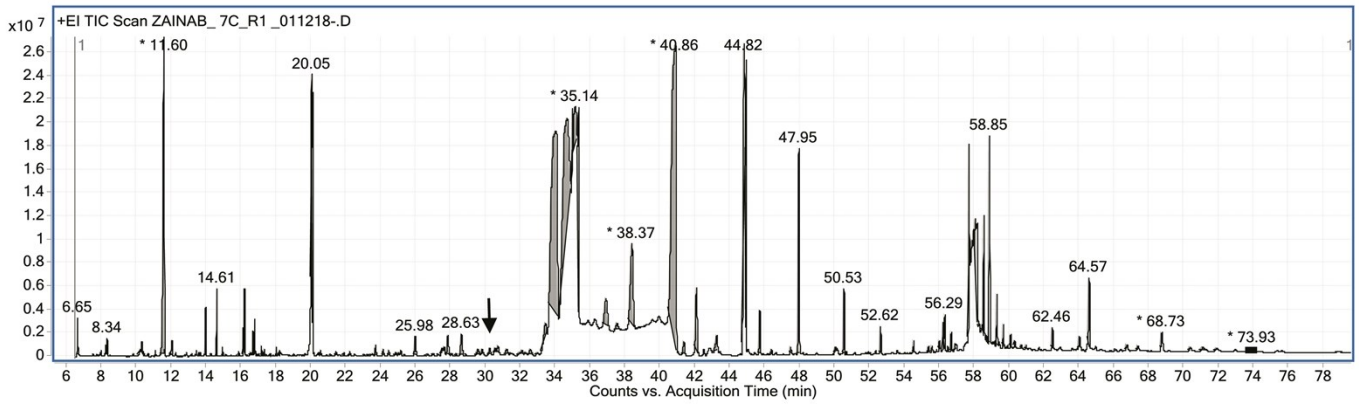
(E)


x10 7
+EI TIC Scan ZAINAB_ 5C _R1 _011218-.D
6.59
8.14
10.35
11.53
13.46
14.62
16.20
* 20.04
23.89
* 28.63
* 35.29
* 36.91
* 38.47
* 40.76
44.81
47.95
50.53
53.56
56.28
57.69
64.57
* 62.45
* 68.72
* 71.54
Counts vs. Acquisition Time (min)

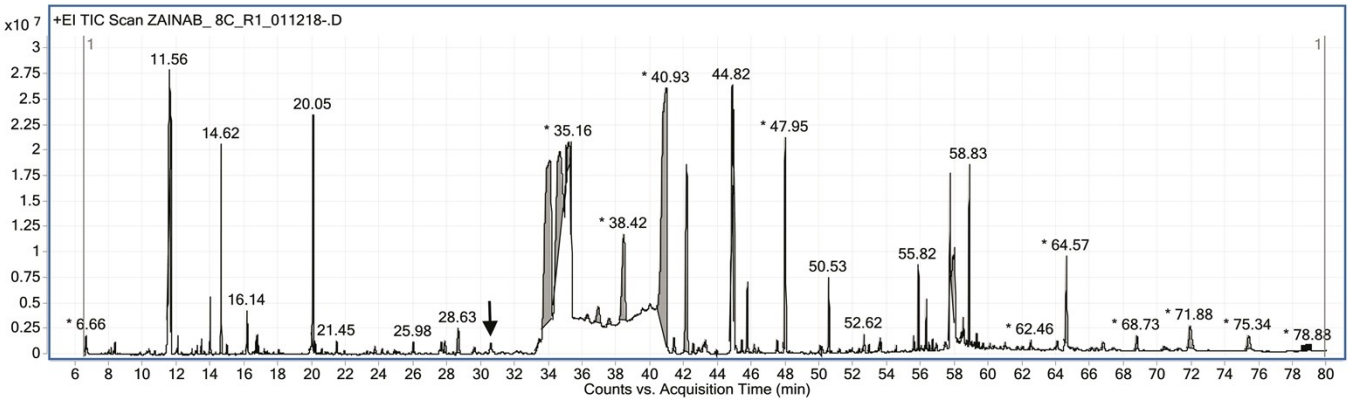
(F)


x10 7
+EI TIC Scan ZAINAB_ 6C_R1 _011218-.D
* 6.62
9.52
* 11.53
13.45
14.61
17.35
20.05
22.23
* 25.18
* 31.19
* 35.32
* 37.06
* 38.65
* 40.85
43.48
44.83
47.96
50.52
* 53.56
55.97
58.47
64.56
* 68.73
* 71.54
Counts vs. Acquisition Time (min)

(G)


x10 7
+EI TIC Scan ZAINAB_ 7C_R1 _011218-.D
* 11.60
20.05
* 35.14
* 40.86
44.82
47.95
58.85
* 38.37
14.61
6.65
8.34
25.98
28.63
50.53
52.62
56.29
62.46
64.57
* 68.73
* 73.93
Counts vs. Acquisition Time (min)

(H)


x10 7
+EI TIC Scan ZAINAB_ 8C_R1_011218-.D
11.56
14.62
20.05
* 35.16
* 40.93
44.82
* 47.95
58.83
* 38.42
* 64.57
50.53
55.82
16.14
* 6.66
21.45
25.98
28.63
52.62
* 62.46
* 68.73
* 71.88
* 75.34
* 78.88
Counts vs. Acquisition Time (min)