

**Supplementary Materials: Table S1.** E-nose analytical conditions, **Table S2.** GC-MS analytical conditions, **Table S3.** Details of the primers are listed in the table. **Table S4.** Chromatogram of 'Shiny Gold', 'Yvonne', '10C3-894' and '10C3-424' obtained from GC-MS analyses.

**Table S1.** E-nose analytical conditions

<b>Headspace injection</b>	
Injected volume ( $\mu\text{l}$ )	1000
Injected speed ( $\mu\text{l/s}$ )	1000
<b>Acquisition parameters</b>	
Acquisition time (s)	500
Acquisition period (s)	1
Acquisition duration (s)	120
<b>Agitator</b>	
Agitation speed (rpm)	500
<b>Oven</b>	
Incubation time (s)	120
Incubation temperature ( $^{\circ}\text{C}$ )	40
Flow (ml/min)	150

**Table S2.** GC-MS analytical conditions

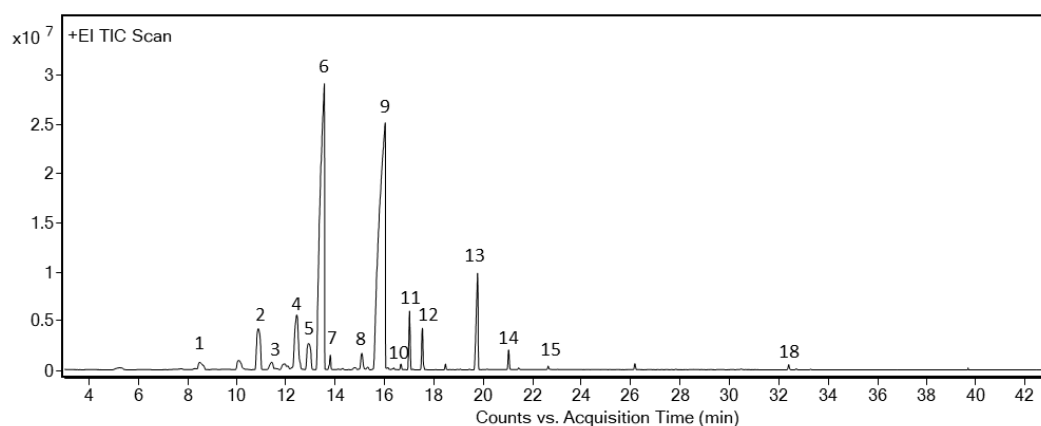
Incubation temperature	30 $^{\circ}\text{C}$ for 10 min
Desorption time	1 min
Injection penetration	50 mm
<b>SPME</b>	
Fiber type	Divinylbenzene-carboxen polydimethylsiloxane
Coating	80 $\mu\text{m}$
<b>GC</b>	
Inlet temperature	230 $^{\circ}\text{C}$
Gas type	Helium
Flow rate	1 ml/min
Oven condition	40 $^{\circ}\text{C}$
Column	30 m X 0.25 mm, 0.25 $\mu\text{m}$
Inlet mode	Splitless
Electron Ionization mode	70 eV
Mass scan range	20-500 amu (3.0 scans/sec)

**Table S3.** Details of the primers are listed in the table

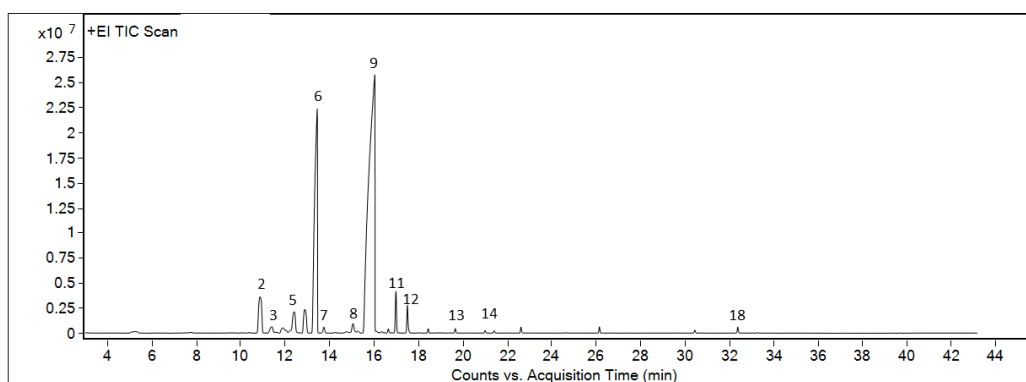
S. No.	Gene ID	Gene name	Forward Primer*	Reverse Primer*
1	101085	<i>TPS 2</i>	CTTCAGTGTCTCAGCCTTTG	ACTTCCTCCTTTAACTTCCTA
2	37065	<i>TPS 3</i>	CCAGATGTAGTACGCCAGTC	TGCTACCGATTTCAGTGATT
3	37061	<i>TPS 4</i>	CCACTACATTGGAGGATGCC	CAGATTGTCCACCACCTTG
4	62996	<i>TPS 5</i>	TCAGTGTCTCAGCCTTTGCG	TGTTTCATCACCCATGTAGCC
5	67117	<i>TPS 6</i>	AGACGAAAGAAGAAAGAGGT	TACAGTGAGAAGAAGGCAGA
6	38400	<i>TPS 8</i>	CTTGGAGCTTCCACTACATT	CACCACCTTGATAATTCCTT
7	-	<i>LIS</i>	CGGTGGAAGGAGAAAATCAA	TAGGCATGTATCCGCTGTGA

\*Source: Primers used in the study were previously reported in *Freesia hybrida* [16].

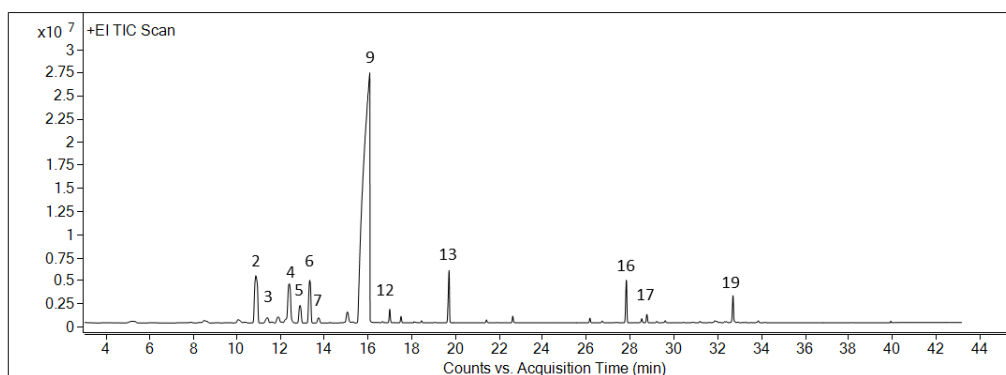
**Table S4.** Chromatogram obtained from the analysis through GC-MS to detect the volatile compounds of (a) 'Shiny Gold', (b) 'Yvonne', (c) '10C3-894', (d) '10C3-424', and (e) Respective compounds detected and their retention time.



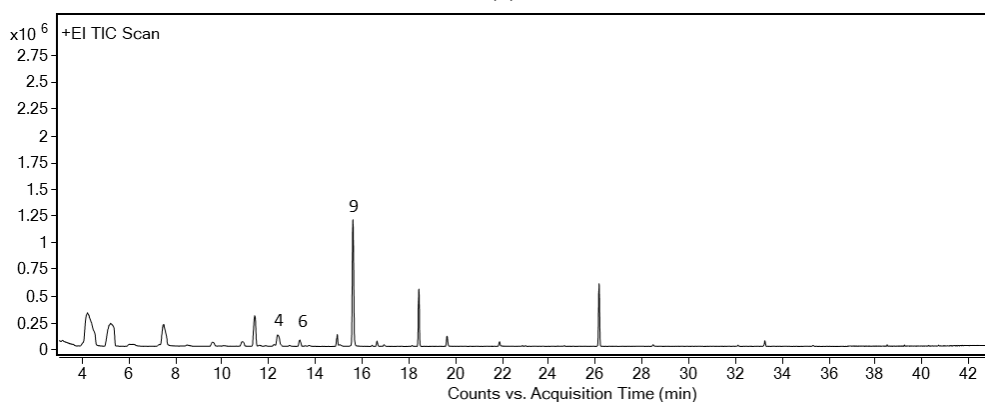
(a)



(b)



(c)



(d)

(e) Respective compounds detected and their retention time

No.	RT (min)	Compounds
1	8.3	$\alpha$ -Thujene
2	10.9	$\beta$ -Myrcene
3	11.9	(+)-4-Carene
4	12.4	D-Limonene
5	12.9	2-Norpinene,3,6,6-trimethyl
6	13.6	$\beta$ -Ocimene
7	13.8	$\gamma$ -Terpinene
8	15.1	Terpinolene
9	16.0	Linalool
10	16.2	1,3,8-p-Menthatriene
11	17.0	2,4,6-Octatriene, 2,6-dimethyl-, (E,E)-
12	17.5	allo-Ocimene
13	19.8	$\alpha$ -Terpineol
14	21.0	$\beta$ -Cyclocitral

15	22.6	Nerol
16	27.8	$\alpha$ -Cubebene
17	28.8	$\alpha$ -Cyperene
18	32.4	trans- $\beta$ -Ionone
19	32.7	$\alpha$ -Selinene