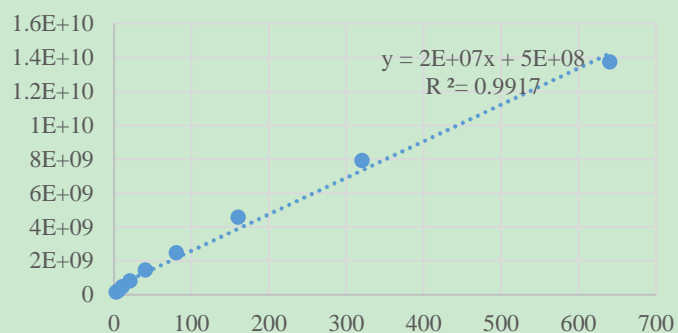


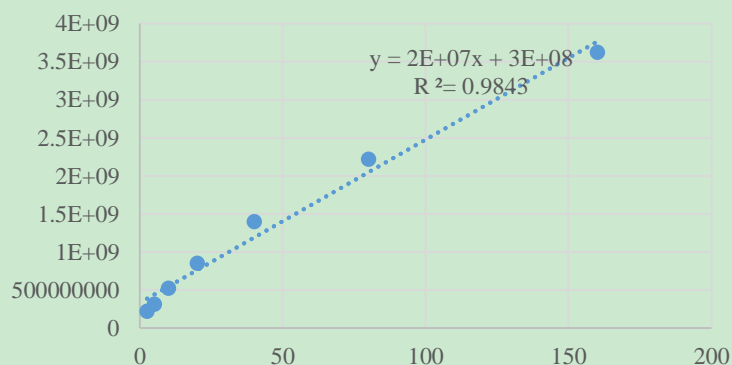
Table S1. Quantitative standards and calibration curves for the quantification of free and bound terpene compounds in grape.

Compounds	Free compounds		Bound compounds	
	Calibration curves	r ²	Calibration curves	r ²
Terpenes				
Linalool	$y = 2E+07x + 5E+08$	0.9917	$y = 2E+07x + 3E+08$	0.9843
Hotrienol	$y = 1E+06x + 2E+07$	0.987	$y = 1E+06x + 2E+07$	0.9964
α -Terpineol	$y = 6E+07x + 2E+08$	0.9908	$y = 2E+07x + 2E+07$	0.9864
α -Citral	$y = 2E+06x - 2E+06$	0.9968	$y = 143076x + 2E+06$	0.9904
Citronellol	$y = 2E+07x + 7E+06$	0.9918	$y = 5E+06x + 1E+07$	0.9930
Neral	$y = 476659x + 3E+06$	0.9871	$y = 776229x + 869192$	0.9964
Geraniol	$y = 1E+06x + 5E+07$	0.9616	$y = 8E+06x - 3E+07$	0.9975
Geranic acid	$y = 5E+06x - 4E+06$	0.9948	$y = 1E+07x + 2E+08$	0.9941
Citronellal	$y = 2E+06x - 3E+06$	0.9905	$y = 5E+06x + 2E+06$	0.9964
B-myrcene	$y = 1E+06x + 1E+06$	0.9944	$y = 2E+06x - 2E+06$	0.9989
D-limonene	$y = 2E+06x - 716796$	0.9981	$y = 781898x + 952605$	0.9982
Myrtenol	$y = 7E+06x + 6E+07$	0.9837	$y = 5E+06x + 3E+07$	0.9717
(<i>E</i>)-furanoid linalool	$y = 9E+06x + 5E+07$	0.988	$y = 2E+07x + 1E+08$	0.9961
(<i>Z</i>)-furanoid linalool	$y = 3E+07x - 8E+07$	0.9944	$y = 4E+06x + 3E+07$	0.9945

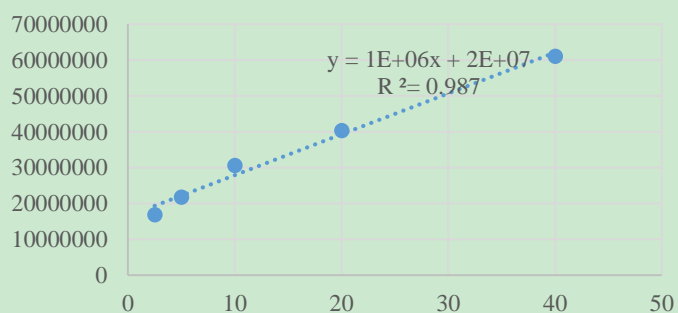
Linalool (free)



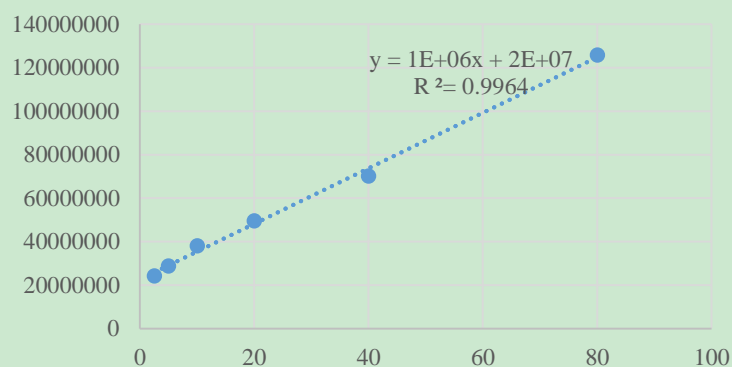
Linalool (bound)



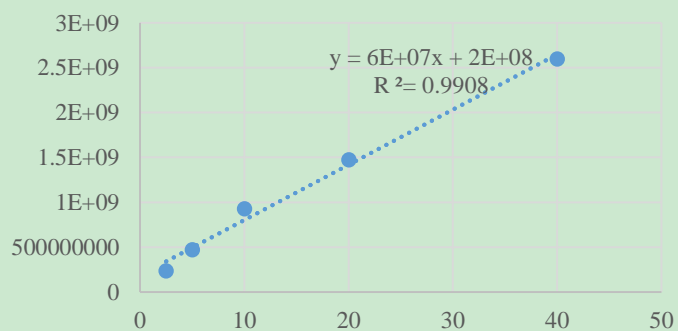
Hotrienol (free)



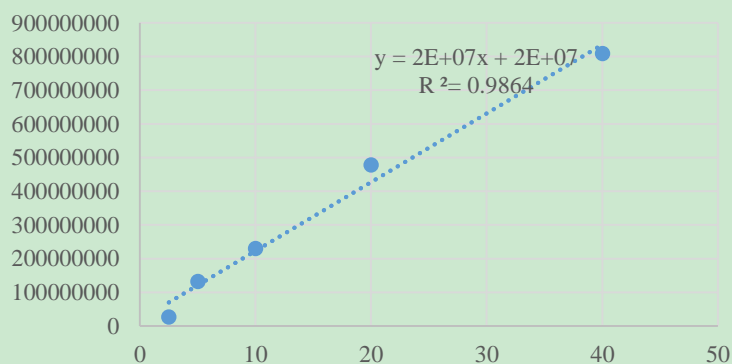
Hotrienol (bound)



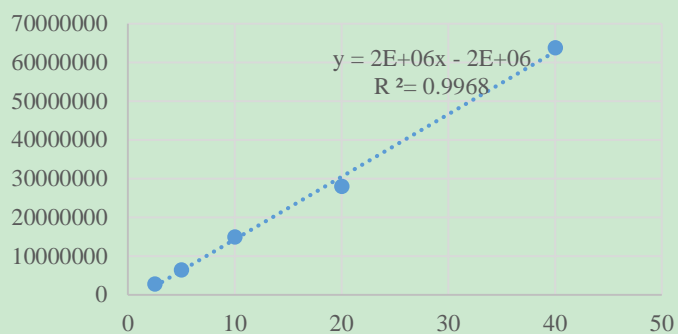
α -Terpenol (free)



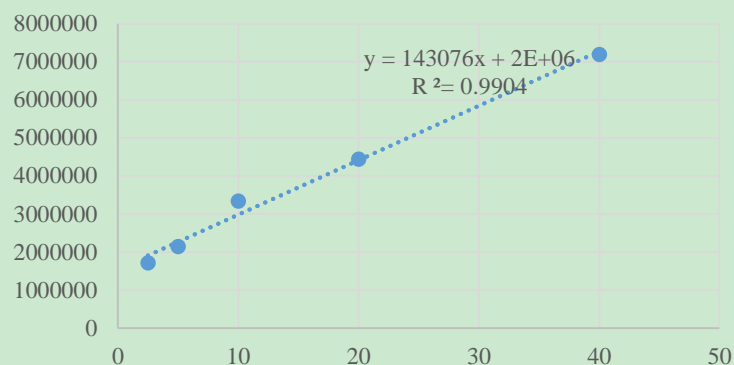
α -Terpenol (bound)



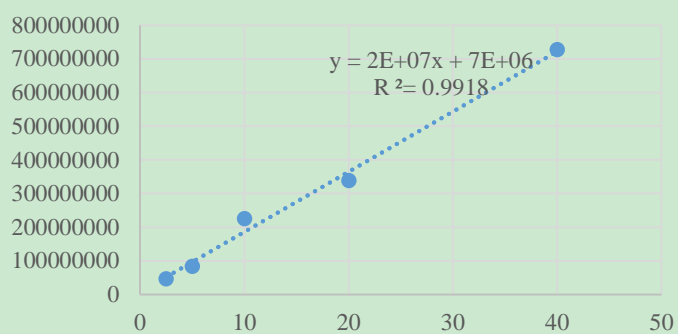
α -Citral (free)



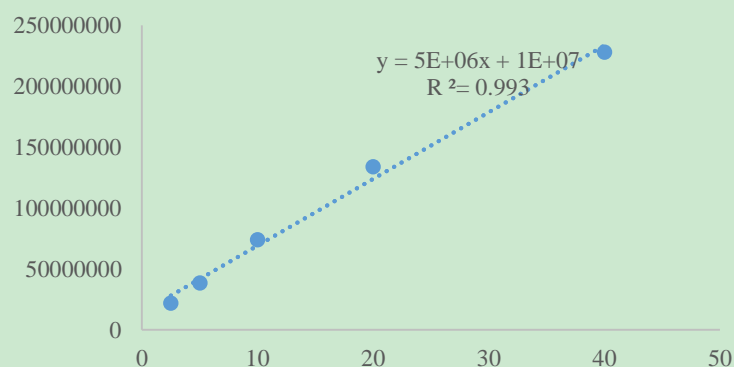
α -Citral (bound)



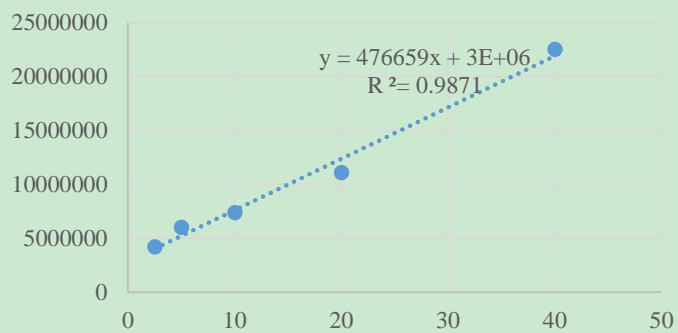
Citronellol (free)



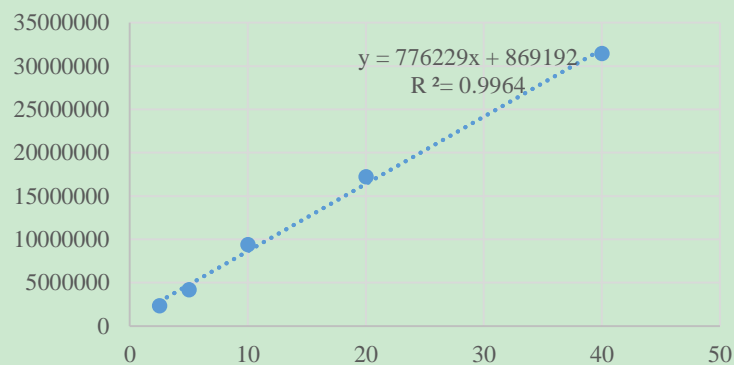
Citronellol (bound)



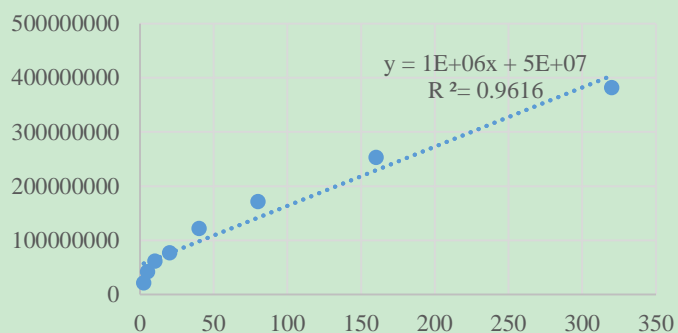
Neral (free)



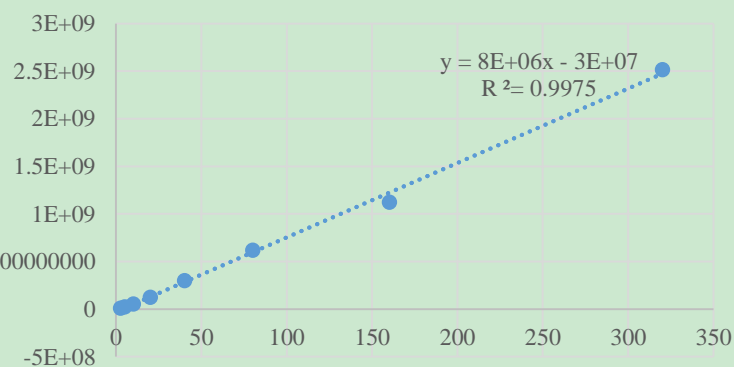
Neral (bound)



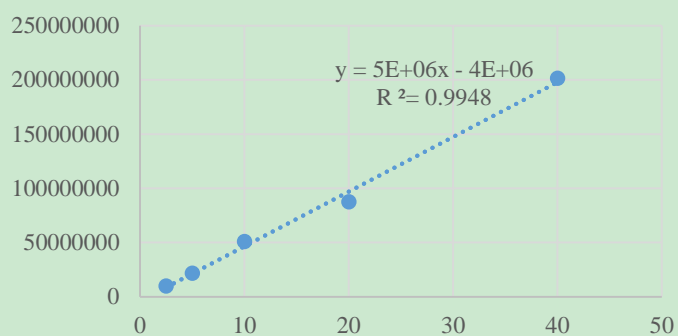
Geraniol (free)



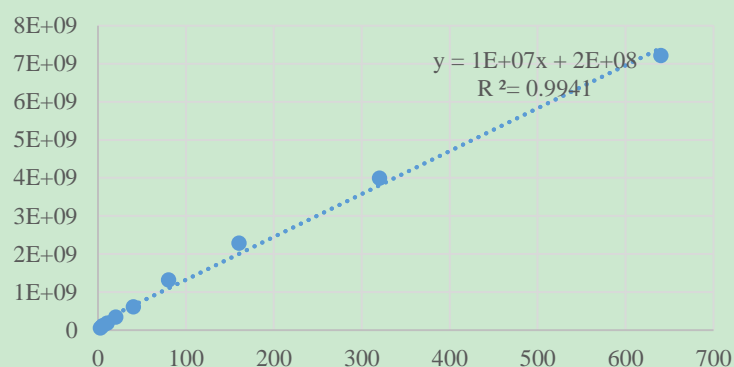
Geraniol (bound)



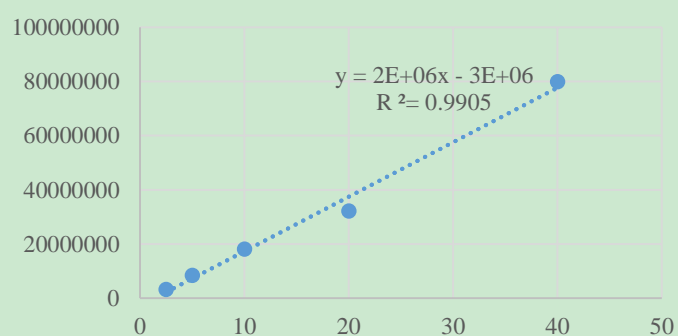
Geranic acid (free)



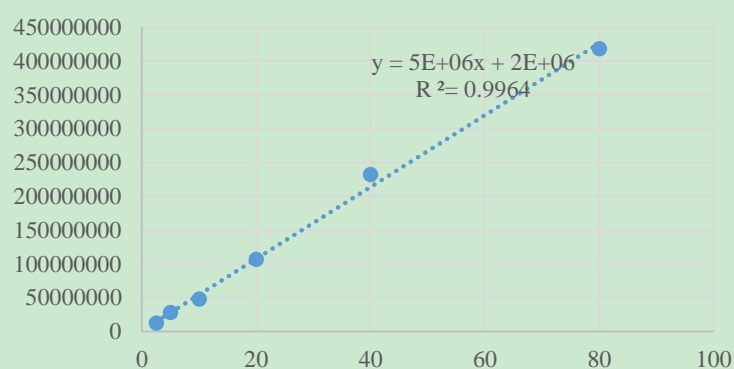
Geranic acid (bound)



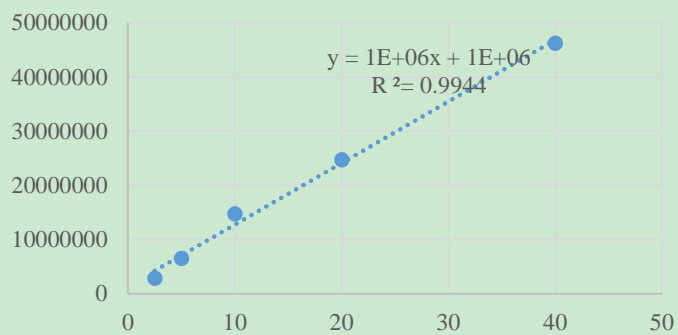
Citronellal (free)



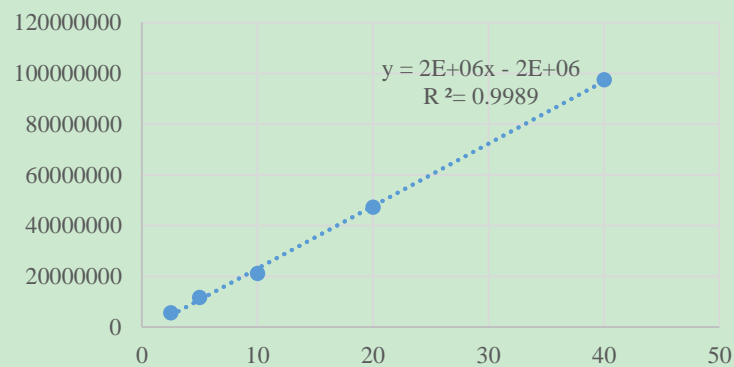
Citronellal (bound)



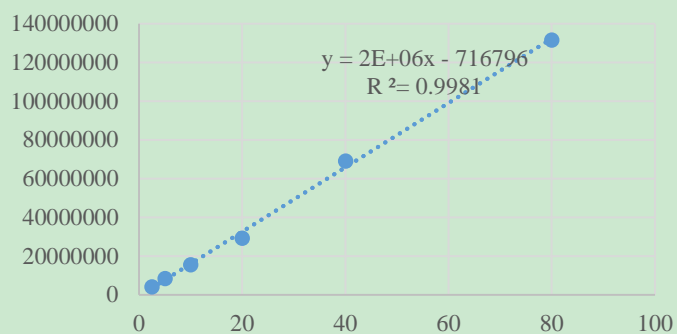
β -Myrcene (free)



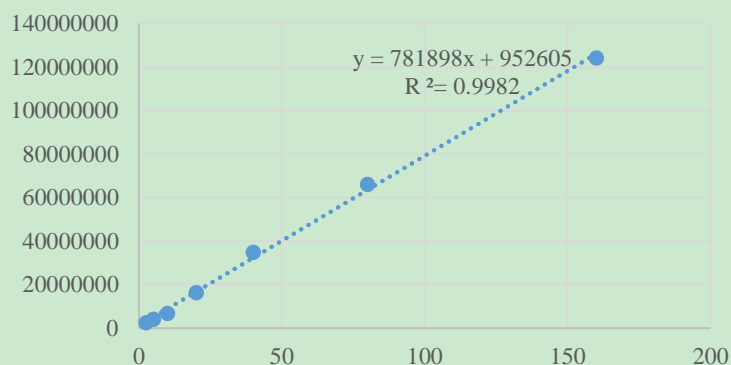
β -Myrcene (bound)



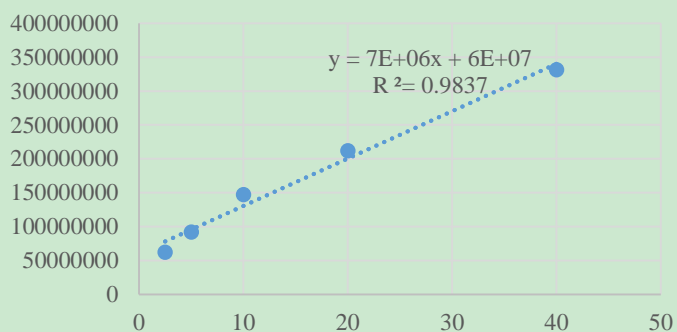
D-limonene (free)



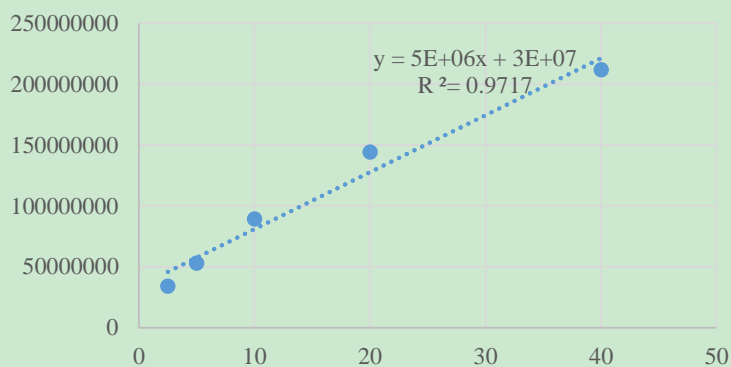
D-limonene (bound)



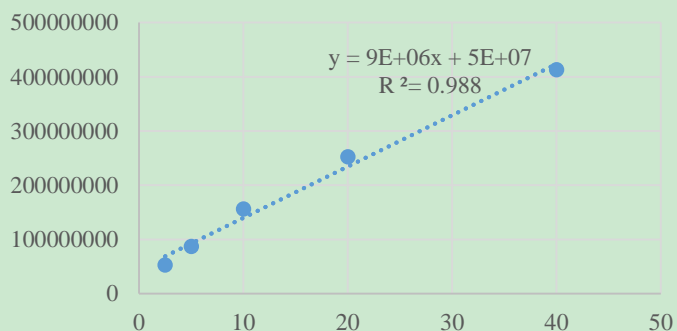
Myrtenol (free)



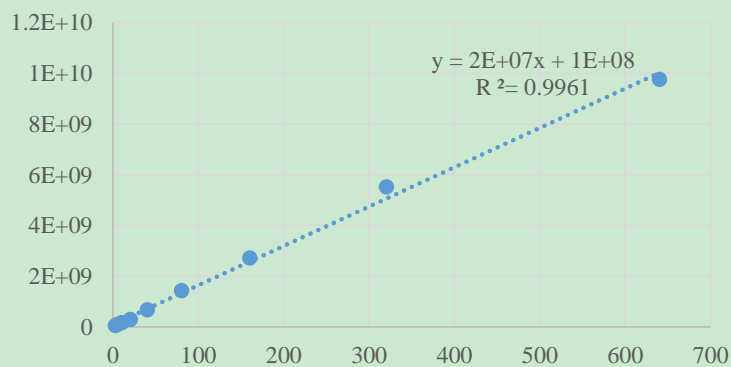
Myrtenol (bound)



(E)-furanoid linalool (free)



(E)-furanoid linalool (bound)



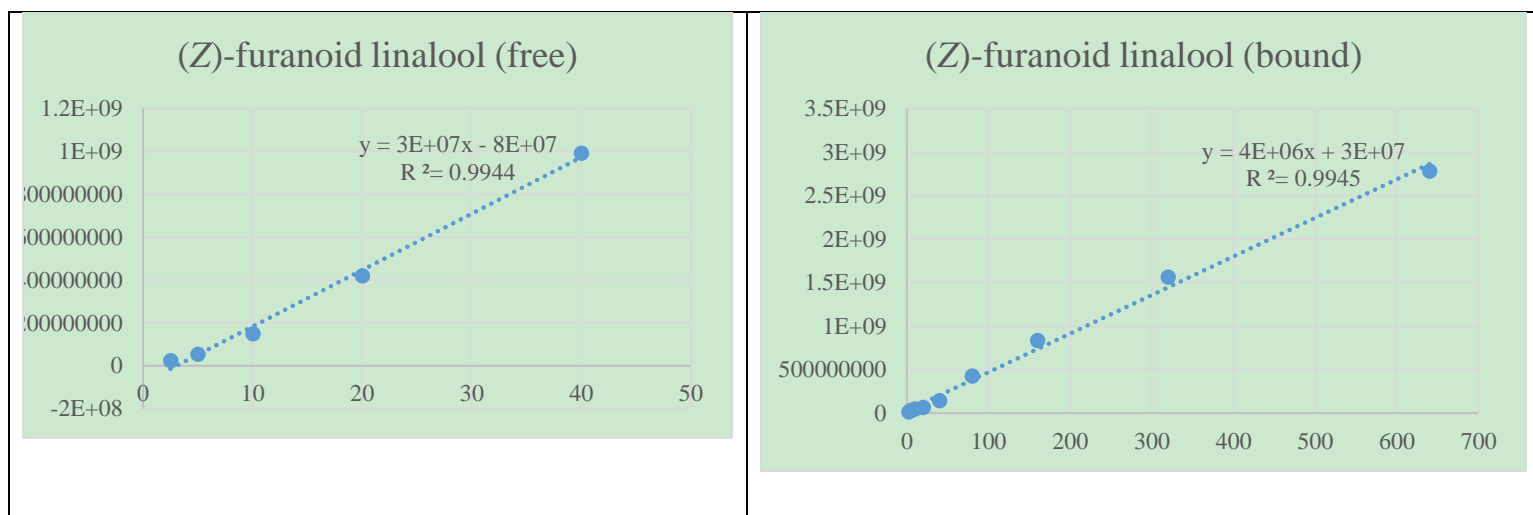


Figure S1. Calibration curves of free compounds (A. pH 3.2, citrate-phosphate buffer solution) and bound volatile compounds (B. pH 5.0, citrate-phosphate buffer solution). The standard solutions were diluted in order to obtain from 5-9 concentration levels. Linear range of free and bound standard were 2.5-640 ng/g.

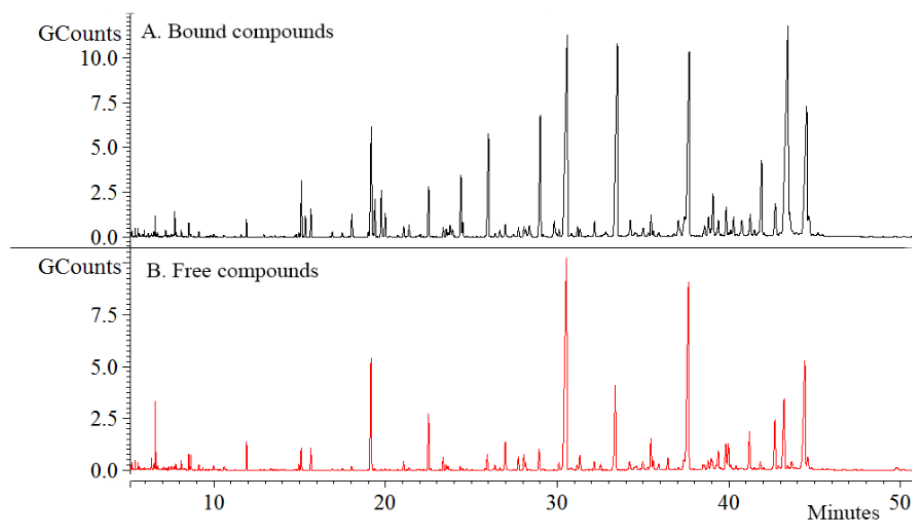


Fig S2 represented chromatogram of GC-MS. A. chromatogram for bound compounds. B. chromatogram for free compounds.

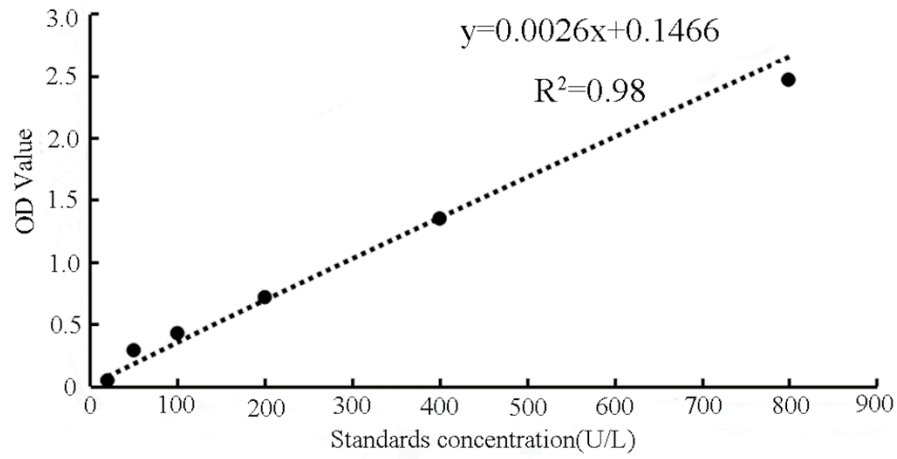


Fig S3 Calibration curves of TPS standards. The standard solutions were diluted in order to obtain from 5 concentration levels. Linear range of free and bound standard were 0-800 U/L.