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# GC ANALYSIS REPORT

## DESCRIPTION / POPIS

NAME / NÁZEV	INCI NAME	CAS-No
Grapefruit	Citrus Paradisi Peel Oil Expressed	8016-20-4

## SPECIFICATION / SPECIFIKACE

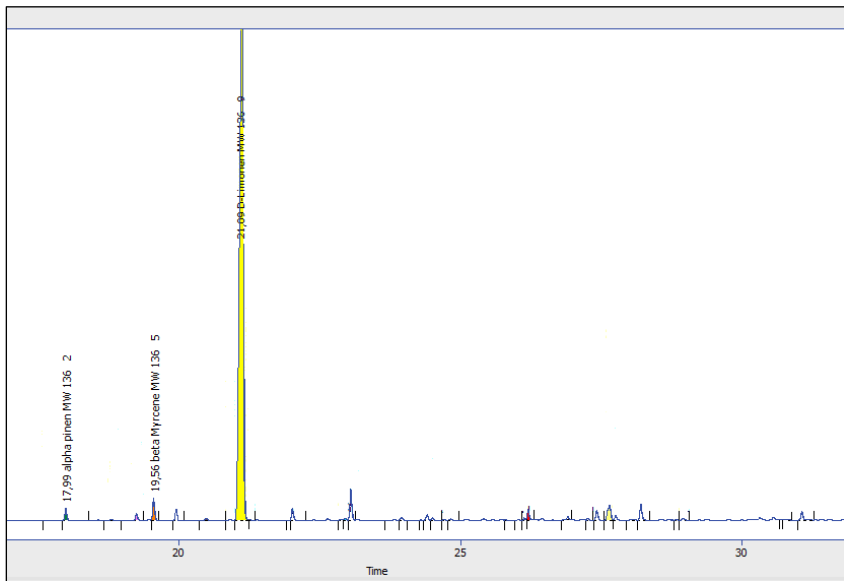
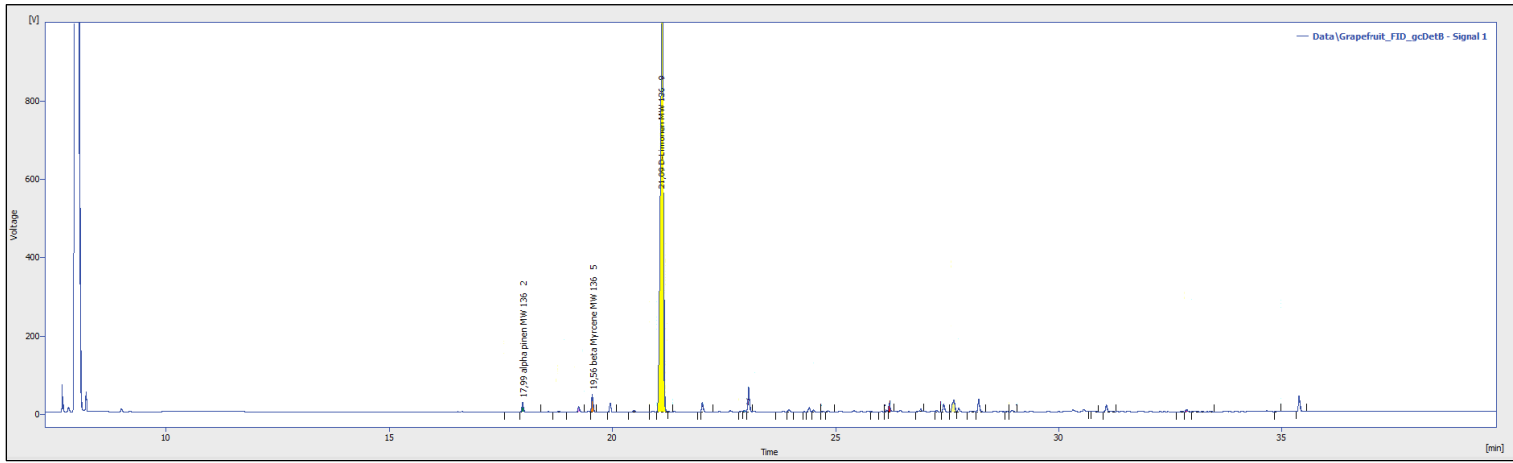
ORIGIN / PŮVOD	COLOUR / BARVA	ODOUR / VŮNĚ, ZÁPACH
USA	Yellow	Citrus

APPEARANCE / VZHLED	SOURCE / ZDROJ	PRODUCTION / VÝROBA
Clear liquid	Fruit peels	Cold pressed

## COMPONENTS / SLOŽKY

COMPOUND / SLOUČENINA	RELATIVE CONTENT / OBSAH [%]	RETENTION TIME / RETENČNÍ ČAS
D-Limonen	86,2	21,09
Linalyl acetate	1,6	27,65
$\beta$ -Myrcene	1,2	19,56
$\alpha$ -Pinen	0,7	17,99
Estragole	0,6	26,22
Sabinene	0,4	19,25

# CHROMATOGRAM WITH IDENTIFICATION PEAKS



## Grapefruit

Botanical name: *Citrus x paradisi* Macfady  
Family: Rutaceae

### Essential oil

Source: Fruit peel, by expression

#### Key constituents:

(+)-Limonene	84.8–95.4%
$\beta$ -Myrcene	1.4–3.6%
$\alpha$ -Pinene	0.2–1.6%
Sabinene	0.4–1.0%
Nootkatone	0.1–0.8%

#### Non-volatile compounds

Bergapten	0.012–0.19%
Epoxy-bergamottin	0.1126%
Bergamottin	<0.11%

(Dugo et al 1999a, Lawrence 1989 p. 91–92, 1993 p167–168, SCCP 2005b)

Quality: Grapefruit oil may be adulterated with orange terpenes, or with purified limonene (Burfield 2000).

[1]

[1] TISSERAND, Robert a Rodney YOUNG. *Essential oil safety: a guide for health care professionals*. Second edition. Edinburgh: Elsevier, 2013. ISBN 9780443062414.