

## Analytical Report for E-Liquid Samples

<b>Certificate Number</b>	R2541	<b>Method: GCMS/FID</b>	<b>Date of receipt</b>	#####
<b>Batch Number</b>	FF3100	<b>Instrument: 7890B-5977</b>	<b>Date of report</b>	5-Sep-16
<b>Product Name</b>	FROMAGE FRAIS 0mg FF3100		<b>Expiry Date</b>	#####
<b>Mode of Detection</b>	<b>Compound</b>	<b>Concentration Units</b>	<b>Result</b>	<b>Limit of Detection</b>
<b>GC-MS (SIM)</b>	Diacetyl	ppm	Not Detected	1
	Acetyl Propionyl	ppm	Not Detected	1
	Acetoin	ppm	Not Detected	1
	Ethylene Glycol	ppm	Not Detected	10
	Diethylene Glycol	ppm	Not Detected	10
<b>GC-FID</b>	Nicotine	mg/mL	Not Detected	0.001
	<b>PG:VG Ratio</b>	<b>Propylene Glycol</b> 14	<b>Glycerin</b> 86	

Figure 1. GC-MS (SIM) chromatogram of sample.

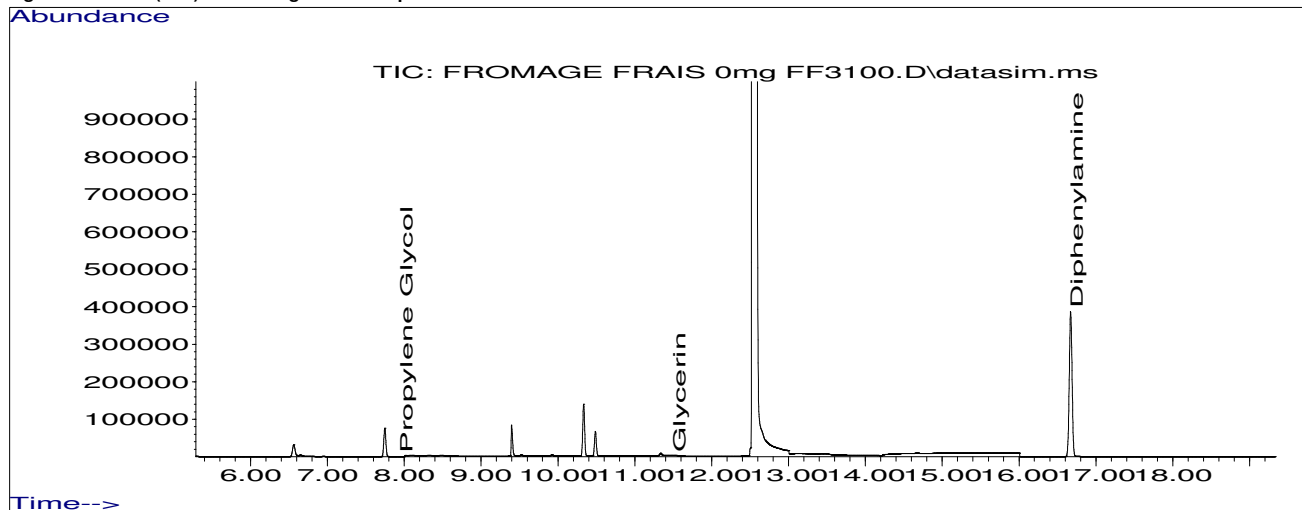


Figure 2. GC-FID chromatogram of sample.

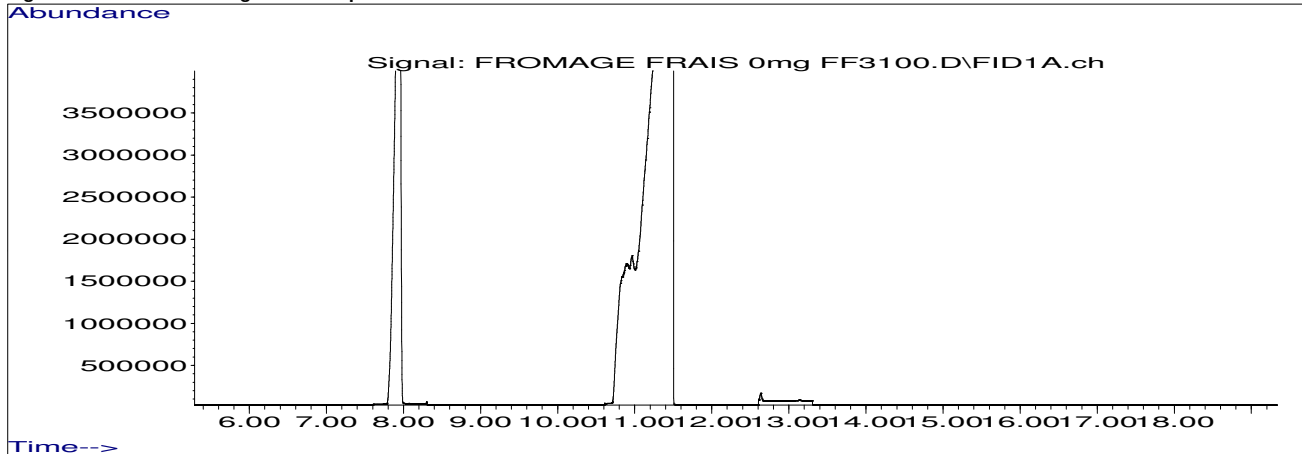
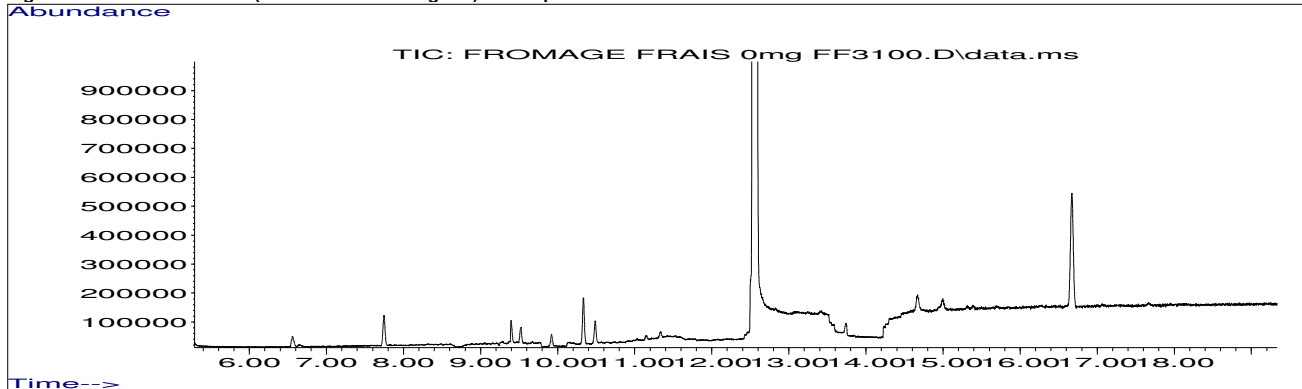


Figure 3: GC-MS Total Scan (Total Ion Chromatogram) of sample



GENERAL REPORT NOTES:

This report only relates to the Lot/batch number and sample name given above. Each sample has been analysed as received and so the lab does not bear any responsibility for variations in expected results due to inappropriate packaging, storage and transportation prior to receipt. All samples, upon receipt, are secured within access controlled storage.

Samples are analysed within quality controlled batches. Each batch consists of a set of matrix-matched control standards; independent standards; and internal calibration standard. The target compounds used are sourced from ISO Guide 34 compliant suppliers where possible; and the dilution/preparing of the calibration solutions were prepared in accordance to in-house procedures.

The metrological traceability of the gravimetric measurements employed in the analytical technique is assured in accordance to ISO/IEC 17025. The analytical balance employed was first checked before use with class E2 analytical weights, traceable to DKD. Cold storage is maintained within set limits (5±3°C) and monitored daily using calibrated thermometers that are NIST traceable.

The hyphenated analytical technique employed was Gas Chromatography with Mass Spectrometer and Flame Ionisation Detection (GC-MS-FID).

The quality control measures employed within each batch ensures that each analysis is acceptable to ±10% of the true value.

COMMON NAME	CHEMICAL NAME	CAS No.
Diacetyl	2,3-Butanedione	431-03-8
Acetyl Propionyl	2,3-Pentanedione	600-14-6
Acetoin	3-Hydroxybutan-2-one	513-86-0
Ethylene Glycol	1,2-Ethandiol	37221-95-7
Diethylene Glycol	Bis(2-Hydroxyethyl)ether	111-46-6
Propylene Glycol	1,2-Propanediol	190913-75-8
Glycerin	1,2,3-Propanetriol	29796-42-7
Nicotine	3-[(2S)-1-methylpyrrolidin-2-yl]pyridine	54-11-5
Diphenylamine	N-Phenylalanine	122-39-4

**Definitions:**

Not Detected: Target compound is less than the method detection limit or limit of quantification. If limits of detection are different from that quoted, a caveat will be included in the comment section of the report.

Limit of Detection: The least amount of a target substance that can be clearly differentiated from other components within the same matrix and distinguished from a blank sample.

<b>Analysed by:</b>	<b>Richard Gandon</b>	<b>Sequence File Path:</b>
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