


CERTIFICATE OF ANALYSIS

SAMPLE NAME		Oil of Agonis fragrans (Fragonia)	
FORM		Oil	
CUSTOMER NAME		Projects Etc Pty (Japan)	
CERTIFICATION DATE		29 January 2020	
CUSTOMER REFERENCE		AF20	
ARL JOB #	A200066	LAB REF. #	ARL2000108
ANALYSIS	GCFID - Area%		

TEST	RESULTS	TEST METHOD
	Area %	
α -thujene	0.30	ARL-TM101-4*
α -pinene	25.59	
sabinene	0.74	
β -pinene	1.73	
myrcene	2.37	
α -phellandrene	0.19	
α -terpinene	1.01	
limonene	2.20	
β -phellandrene	0.34	
p-cymene	1.44	
1,8-cineole	24.63	
γ -terpinene	2.34	
terpinolene	0.47	
linalool	10.84	
terpinen-4-ol	3.05	
α -terpineol	6.11	
myrtenol	4.27	
nerol	0.68	
geraniol	1.31	
methyl geranate	0.15	
myrtenyl acetate	0.77	
caryophyllene	0.95	
aromadendrene	0.38	
α -humulene	1.49	
cis calamenene	0.51	
bicyclogermacrene	1.45	
globulol	0.16	
viridiflorol	0.14	

* Assay by GC (FID detection –area percent report) with GCMS confirmation

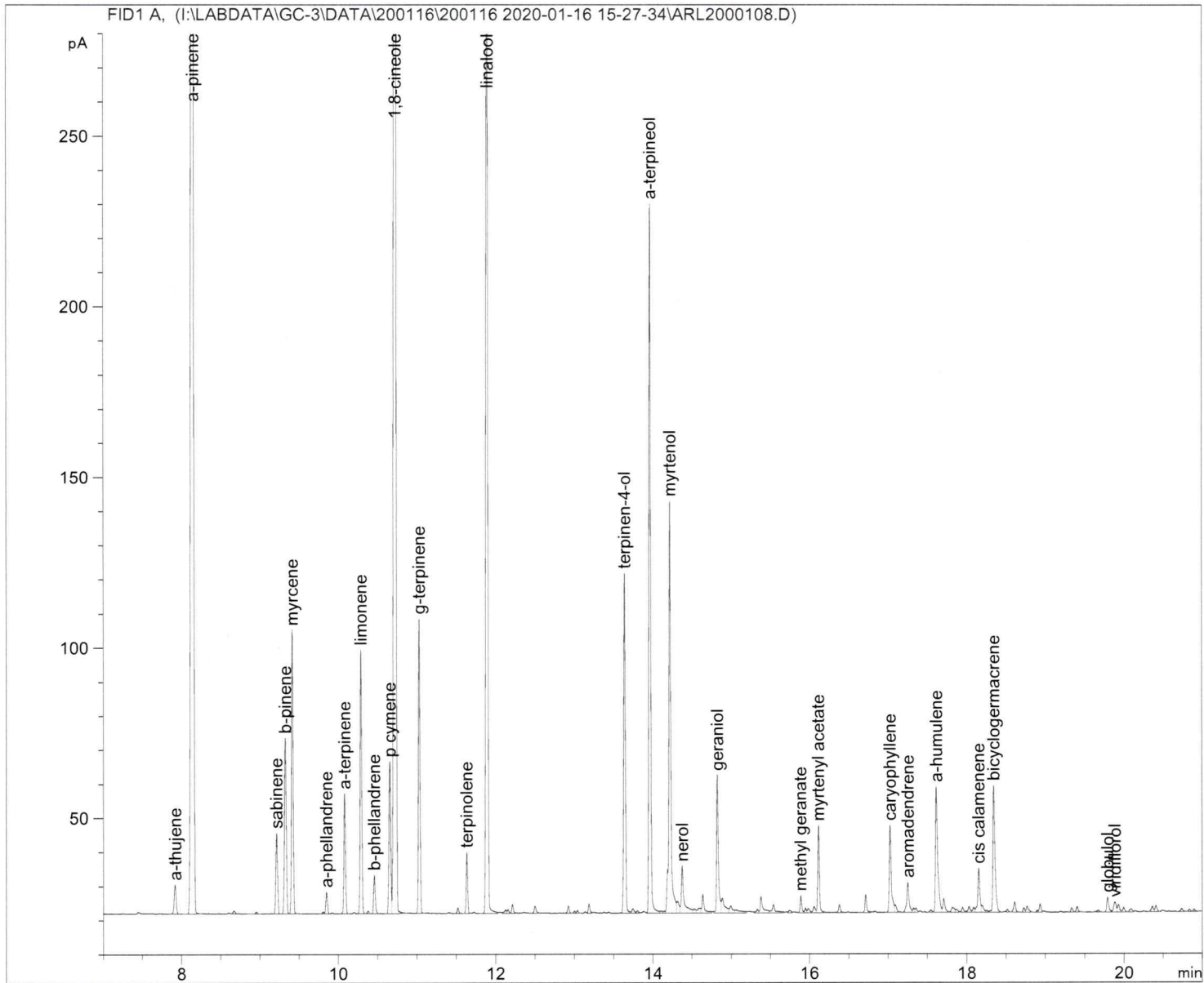


Anastasia Whitehall
LABORATORY ASSISTANT




Ashley Dowell
MANAGER - ARL

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Acq. Operator : Seq. Line : 4
Acq. Instrument : GC-3 Location : Vial 7
Injection Date : 16/01/2020 5:59:07 PM Inj : 1
Inj Volume : 1.000 µl
Acq. Method : Y:\DATA\200116\200116 2020-01-16 15-27-34\EO BASEMETHOD.M
Last changed : 7/01/2020 4:21:45 PM by AW
Analysis Method : I:\LABDATA\GC-3\METHODS\FRAGONIA.M
Last changed : 29/01/2020 2:18:22 PM
(modified after loading)
Method Info : Method to analyse essential oils



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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : Wednesday, 29 January 2020 2:10:47 PM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

843
29/1/20

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	7.920	BB	0.0275	14.75851	0.3041	a-thujene
2	8.147	BB	0.0295	1242.01013	25.5947	a-pinene
3	9.213	VV	0.0238	35.93799	0.7406	sabinene
4	9.323	VV	0.0255	83.92932	1.7296	b-pinene
5	9.414	VB	0.0216	114.78276	2.3654	myrcene
6	9.848	VV	0.0232	9.30070	0.1917	a-phellandrene
7	10.079	BB	0.0217	48.86795	1.0070	a-terpinene
8	10.289	VV	0.0221	106.67811	2.1984	limonene
9	10.458	VV	0.0232	16.61282	0.3423	b-phellandrene
10	10.655	VV	0.0249	70.04090	1.4434	p cymene
11	10.727	VB	0.0250	1194.97534	24.6254	1,8-cineole
12	11.029	BB	0.0208	113.39531	2.3368	g-terpinene
13	11.634	BB	0.0205	22.93149	0.4726	terpinolene
14	11.897	VV	0.0240	526.03851	10.8403	linalool
15	13.641	VV	0.0228	147.92822	3.0484	terpinen-4-ol
16	13.964	VB	0.0221	296.69498	6.1141	a-terpineol
17	14.218	VV	0.0255	207.09177	4.2676	myrtenol
18	14.371	VV	0.0334	32.85245	0.6770	nerol
19	14.823	BV	0.0239	63.72178	1.3131	geraniol
20	15.885	VV	0.0225	7.24908	0.1494	methyl geranate
21	16.114	VB	0.0228	37.60271	0.7749	myrtenyl acetate
22	17.024	VV	0.0271	46.02395	0.9484	caryophyllene
23	17.250	VV	0.0308	18.63838	0.3841	aromadendrene
24	17.615	VV	0.0288	72.09454	1.4857	a-humulene
25	18.153	VV	0.0286	24.82485	0.5116	cis calamenene
26	18.344	VV	0.0285	70.14041	1.4454	bicyclogermacrene
27	19.789	VV	0.0280	7.97474	0.1643	globulol
28	19.884	VV	0.0371	6.81355	0.1404	viridiflorol

Totals : 4639.91127 95.6168

*** End of Report ***

gkb
29/1/20