

CERTIFICATE OF ANALYSIS

SAMPLE NAME		Cedarwood oil Atlas	
FORM		Oil	
CUSTOMER NAME		Buckley & Phillips Aromatics	
CERTIFICATION DATE		22 March 2019	
CUSTOMER REFERENCE		18363	
ARL JOB #	A190548	LAB REF. #	ARL1901308
ANALYSIS	GCFID - Area%	METHOD	ARL-TM101-3

TEST	RESULTS	TEST METHOD
	Area %	
4-acetyl 1-methyl cyclohexene	0.43	ARL-TM101-3*
α -himachalene	16.52	
γ -himachalene	9.70	
himachala 1,4 diene	1.90	
β -himachalene	48.12	
AR himachalene	0.48	
dehydro α -himachalene	0.55	
dehydro γ -himachalene	0.76	
α -cuprenene	0.33	
β -himachalene oxide	0.43	
himachalol	0.52	
(Z)- γ -atlantone	0.75	
(E)- γ -atlantone	0.84	
deodarone	0.60	
(Z) - α -atlantone	2.00	
(E) - α -atlantone	3.15	

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



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Samantha Morrow
ANALYTICAL OFFICER



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Ashley Dowell
MANAGER - ARL

Sample Name: Cedarwood Atlas 18363

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 Area Percent Report
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Sorted By : Signal
 Calib. Data Modified : 3/18/2019 3:52:25 PM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	43.696	BB	0.0946	19.05330	0.42960	cyclohexene,4aclme
2	64.042	VB	0.1004	732.84216	16.52353	a - himachalene
3	66.416	VB	0.0997	430.12286	9.69806	g - himachalene
4	66.960	BB	0.1009	84.24652	1.89952	himachal 1,4 diene
5	68.286	BV	0.1369	2134.41040	48.12496	b - himachalene
6	69.807	VV	0.1033	21.25915	0.47933	AR himachalene
7	70.534	VV	0.0962	24.23945	0.54653	dehydro a-himacalene
8	72.422	VB	0.0930	33.62332	0.75811	dehydro g-himacalene
9	73.007	BB	0.1027	14.41455	0.32501	a-cuprenene
10	83.244	VB	0.0976	19.12686	0.43126	b-himachalene oxide
11	84.928	VV	0.0918	22.91603	0.51669	himachalol
12	87.695	BB	0.0910	33.04262	0.74502	cis g atlantone
13	88.355	BB	0.0661	37.29282	0.84085	trans g atlantone
14	88.627	BB	0.0671	26.60085	0.59977	deodarone
15	89.187	VV	0.0752	88.74242	2.00089	cis a atlantone
16	90.926	VB	0.0539	139.54190	3.14628	trans a atlantone

Totals : 3861.47523 87.0654

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 *** End of Report ***

yjs
 17/3/19