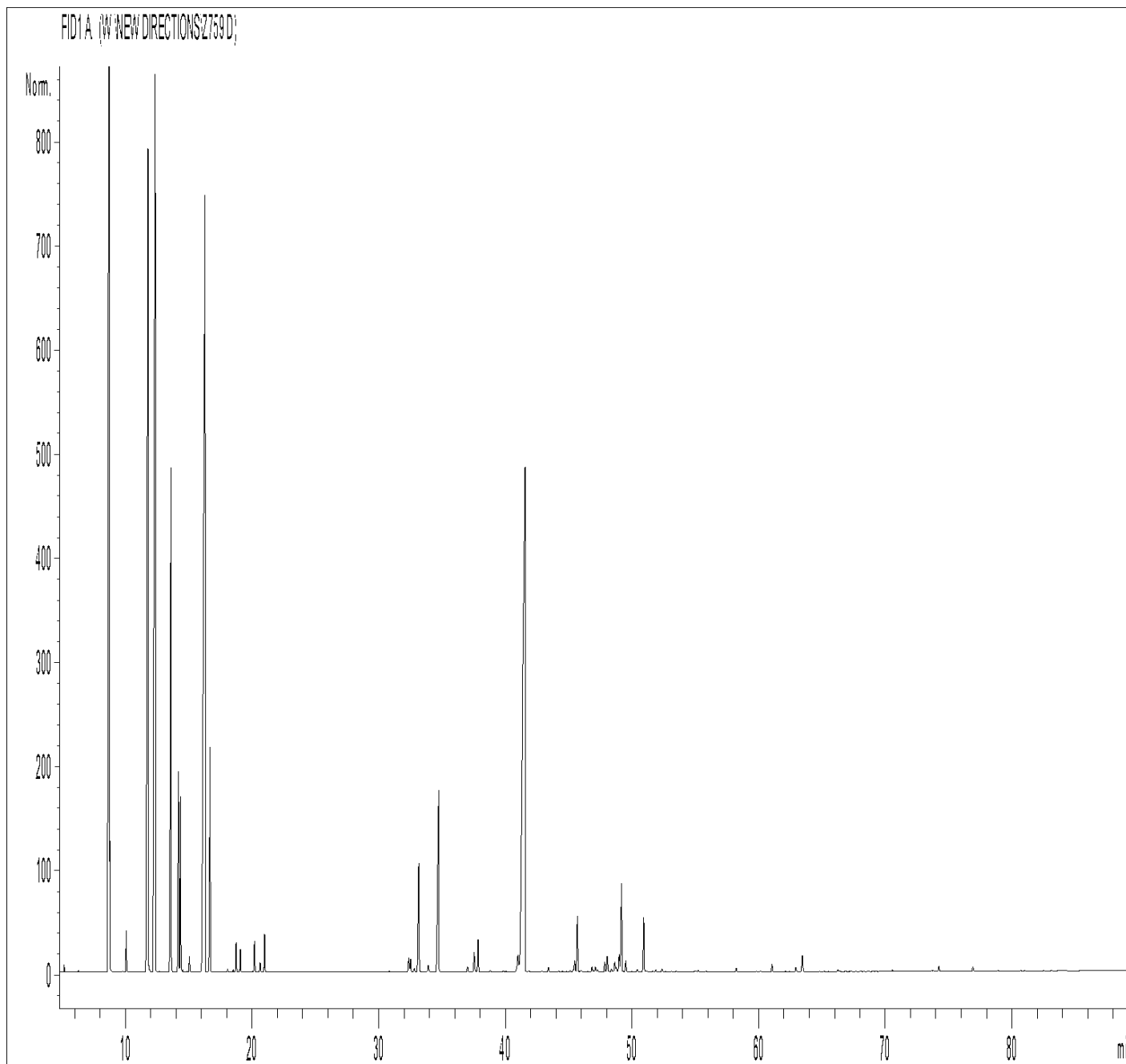


GCMS ANALYSIS

PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL - 50020

DATE: October 4, 2019



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL - 50020

Peak	RT (min)	Compound name	%
1	5,17	ACETONE	0,03
2	8,71	alpha-PINENE	13,07
3	8,76	alpha-THUYENE	1,71
4	10,06	CAMPHENE	0,35
5	11,78	beta-PINENE	11,95
6	12,35	SABINENE	13,68
7	12,39	PINADIENE	0,01
8	13,60	delta3-CARENE	6,47
9	14,20	beta-MYRCENE	2,28
10	14,35	alpha-PHELLANDRENE	1,41
11	14,42	TERPENE ISOMER	0,02
12	14,51	psi-LIMONENE	0,02
13	15,05	alpha-TERPINENE	0,15
14	16,28	LIMONENE	16,45
15	16,67	1,8-CINEOLE	0,03
16	16,68	beta-PHELLANDRENE	2,25
17	18,06	cis-beta-OCIMENE	0,03
18	18,50	TERPENE ISOMER	0,02
19	18,74	gamma-TERPINENE	0,29
20	19,07	trans-beta-OCIMENE	0,21
21	20,02	m-CYMENE	0,01
22	20,19	p-CYMENE	0,30
23	20,63	ISOTERPINOLENE	0,10
24	20,99	TERPINOLENE	0,39
25	32,36	alpha-CUBEBENE	0,19
26	32,51	trans-THUYANOL	0,15
27	32,80	ELEMENE ISOMER	0,06
28	33,16	delta-ELEMENE	1,54
29	33,91	CYCLOSATIVENE	0,11
30	34,73	alpha-COPAENE	3,09

Disclaimer & Caution

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL - 50020

Peak	RT (min)	Compound name	%
31	37,01	alpha-GURJUNENE	0,07
32	37,55	beta1-CUBEBENE	0,28
33	37,84	cis-THUYANOL	0,07
34	37,85	LINALOOL	0,29
35	38,81	trans-p-MENTH-2-EN-1-OL	0,02
36	39,84	SESQUITERPENE	0,02
37	41,00	beta-ELEMENE	0,32
38	41,56	beta-CARYOPHYLLENE	17,64
39	42,87	cis-p-MENTH-2-EN-1-OL	0,02
40	43,40	CADINA-3,5-DIENE	0,06
41	44,21	SESQUITERPENE	0,01
42	44,51	GERMACRENE A	0,01
43	45,13	trans-PINOCARVEOL	0,02
44	45,40	ALLO-AROMADENDRENE	0,02
45	45,47	ZONARENE	0,06
46	45,48	SESQUITERPENE	0,09
47	45,70	alpha-HUMULENE	0,74
48	46,00	SESQUITERPENE	0,03
49	46,85	gamma-MUUROLENE	0,08
50	47,11	alpha-TERPINEOL	0,07
51	47,27	LEDENE	0,03
52	47,86	GURJUNENE ISOMER	0,13
53	48,06	GERMACRENE D	0,23
54	48,37	MUUROLADIENE ISOMER	0,05
55	48,66	beta-SELINENE	0,15
56	48,76	alpha-ZINGIBERENE	0,03
57	48,77	alpha-SELINENE	0,03
58	48,99	alpha-MUUROLENE	0,26
59	49,18	beta-BISABOLENE	1,18
60	49,52	BICYCLOGERMACRENE	0,15

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL - 50020

Peak	RT (min)	Compound name	%
61	50,41	E,E-alpha-FARNESENE	0,03
62	50,94	delta-CADINENE	0,70
63	51,64	beta-SESQUIPHELLANDRENE	0,01
64	51,87	trans-alpha-BISABOLENE	0,03
65	52,37	CADINA-1,4-DIENE	0,04
66	53,50	trans-SABINOL	0,01
67	55,23	CALAMENENE	0,03
68	55,86	p-CYMENE-8-OL	0,01
69	58,24	Epi-CUBEBOL	0,04
70	60,15	HUMULENE EPOXIDE	0,02
71	61,06	CUBEBOL	0,10
72	62,95	ISOCARYOPHYLLENE EPOXIDE	0,05
73	63,46	CARYOPHYLLENE EPOXIDE	0,22
74	66,27	NEROLIDOL	0,02
75	70,57	SPATHULENOL	0,02
76	73,68	alpha-MUUROLOL	0,01
77	73,79	ACETOXY KETONE COMPOUND	0,01
78	74,25	delta-CADINOL	0,06
79	76,93	beta-NOOTKATOL	0,05
80	78,90	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,01
		TOTAL	100,00

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