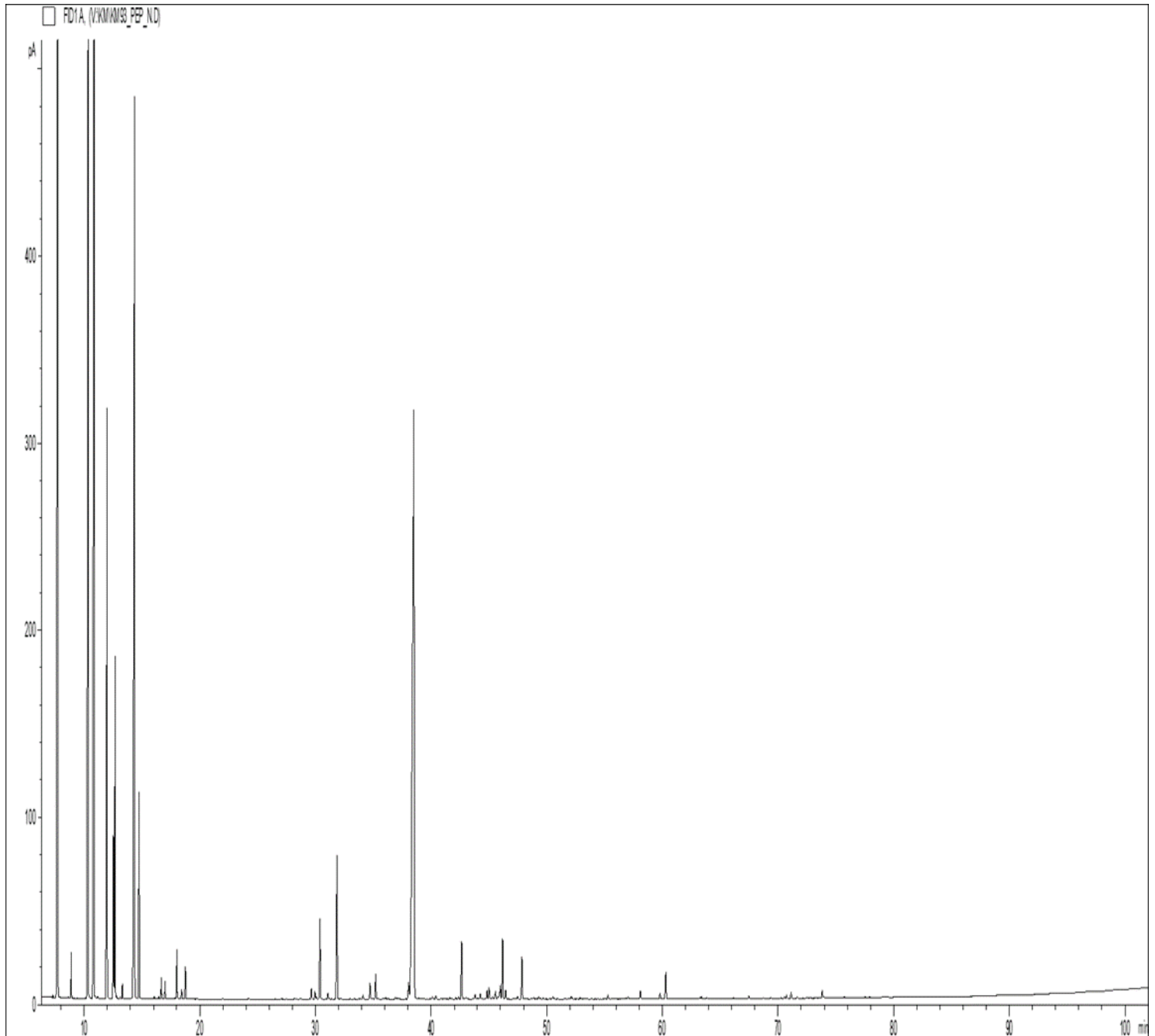


GCMS ANALYSIS

PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL – 50020

DATE: September 14, 2023



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	7,31	TRICYCLENENE	0,02
2	7,70	alpha-PINENE	14,70
3	7,74	alpha-THUYENE	1,54
4	8,63	alpha-FENCHENE	0,01
5	8,89	CAMPHENE	0,35
6	10,36	beta-PINENE	12,00
7	10,88	SABINENE	15,68
8	11,18	delta2-CARENE	0,02
9	11,99	delta3-CARENE	6,37
10	12,54	beta-MYRCENE	1,82
11	12,69	alpha-PHELLANDRENE	3,05
12	12,83	psi-LIMONENE	0,02
13	13,14	o-CYMENE	0,01
14	13,32	alpha-TERPINENE	0,13
15	14,38	LIMONENE	15,07
16	14,76	1,8-CINEOLE	1,96
17		beta-PHELLANDRENE	
18	16,08	cis-beta-OCIMENE	0,02
19	16,47	TERPENE ISOMER	0,02
20	16,68	gamma-TERPINENE	0,20
21	17,01	trans-beta-OCIMENE	0,17
22	17,88	m-CYMENE	0,02
23	18,03	p-CYMENE	0,49
24	18,43	ISOTERPINOLENE	0,09
25	18,76	TERPINOLENE	0,32
26	24,21	alpha-PINENE OXIDE	0,01
27	28,20	alpha,p-DIMETHYLSTYRENE	0,01
28	28,70	LIMONENE cis-1,2-EPOXIDE	0,01
29	29,66	alpha-CUBEBENE	0,12
30	29,95	trans-THUYANOL	0,09

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL – 50020

Peak	RT (min)	Compound name	%
31	30,09	ELEMENE ISOMER	0,03
32	30,41	delta-ELEMENE	1,01
33	31,09	ISOLEDENE	0,08
34	31,87	alpha-COPAENE	2,07
35	34,11	alpha-GURJUNENE	0,05
36	34,71	beta1-CUBEBENE	0,20
37	35,19	LINALOOL	0,29
38	36,09	trans-p-MENTH-2-EN-1-OL	0,02
39	36,89	ISOCARYOPHYLLENE	0,02
40	38,04	beta-ELEMENE	0,28
41		beta-CUBEBENE	
42	38,51	beta-CARYOPHYLLENE	17,17
43	38,90	6,9-GUAIADIENE	0,02
44	40,09	cis-p-MENTHA-2,8-DIEN-1-OL	0,02
45	40,41	CADINA-3,5-DIENE	0,04
46	41,18	SESQUITERPENE	0,01
47	41,61	trans-PINOCARVEOL	0,02
48	42,12	ZONARENE	0,02
49	42,37	E-beta-FARNESENE	0,03
50	42,63	alpha-HUMULENE	0,78
51	42,98	SESQUITERPENE	0,02
52	43,05	LAVANDULAL	0,02
53	43,80	gamma-MUUROLENE	0,06
54	44,04	LEDENE	0,01
55	44,25	alpha-TERPINEOL	0,08
56	44,83	GURJUNENE ISOMER	0,10
57	45,01	GERMACRENE D	0,15
58	45,32	MUUROLADIENE ISOMER	0,04
59	45,51	SESQUITERPENE	0,02
60	45,56	beta-SELINENE	0,09

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GCMS ANALYSIS (cont'd,)
PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL – 50020

Peak	RT (min)	Compound name	%
61	45,79	alpha-ZINGIBERENE	0,03
62	45,97	alpha-SELINENE	0,21
63		alpha-MUUROLENE	
64	46,17	beta-BISABOLENE	0,77
65	46,44	BICYCLOGERMACRENE	0,11
66	47,48	E,E-alpha-FARNESENE	0,03
67	47,85	delta-CADINENE	0,56
68	48,63	beta-SESQUIPELLANDRENE	0,02
69	48,87	trans-alpha-BISABOLENE	0,03
70	49,29	CADINA-1,4-DIENE	0,03
71	49,44	MYRTENOL	0,01
72	49,69	alpha-AMORPHENE	0,01
73	50,54	trans-SABINOL	0,03
74	51,60	GERMACRENE B	0,01
75	52,12	CALAMENENE	0,04
76	52,88	p-CYMENE-8-OL	0,01
77	55,28	Epi-CUBEBOL	0,04
78	57,01	HUMULENE EPOXIDE	0,03
79	58,09	CUBEBOL	0,10
80	59,79	ISOCARYOPHYLLENE OXIDE	0,09
81	60,28	CARYOPHYLLENE OXIDE	0,36
82	63,22	EPOXY-6,7-HUMULENE	0,02
83	63,36	NEROLIDOL	0,03
84	63,82	GERMACRENE D-4-OL	0,01
85	67,47	SPATHULENOL	0,03
86	68,74	SESQUITERPENOL	0,01
87	70,57	alpha-MUUROLOL	0,02
88	70,73	2-ACETYLCYCLOPENTANONE	0,04
89	71,13	delta-CADINOL	0,08
90	71,65	DITERPENE	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PEPPER BLACK ORGANIC ESSENTIAL OIL – 50020

Peak	RT (min)	Compound name	%
91	73,82	beta-NOOTKATOL	0,10
92	75,71	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,02
93	79,16	AROMATIC COMPOUND	0,01
94	80,02	SESQUITERPENIC OXIDE	0,02
		TOTAL	99,95

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