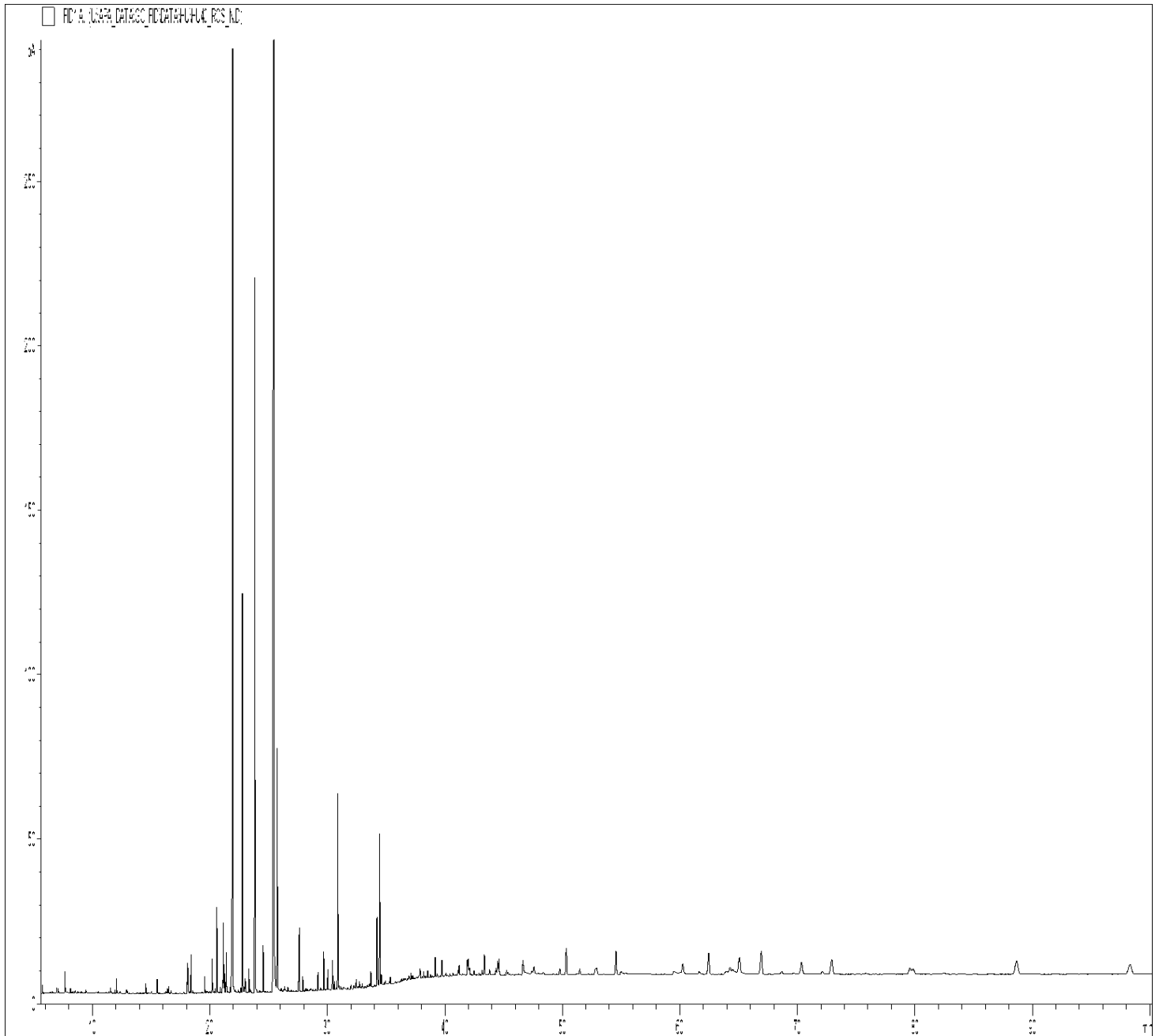


GCMS ANALYSIS

PRODUCT NAME: ROSE ABSOLUTE (BULGARIA) – 12013

DATE: July 5, 2022



*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: ROSE ABSOLUTE (BULGARIA) – 12013

Peak	RT (min)	COMPONENT name	%
1	4.50	ETHYL FORMATE	0.07
2	4.72	ETHANOL	1.73
3	5.75	$\alpha$ -PINENE	0.05
4	6.94	$\beta$ -PINENE	0.03
5	7.09	SABINENE	0.03
6	7.66	$\beta$ -MYRCENE	0.14
7	8.12	HEPTANAL	0.03
8	9.45	$\gamma$ -TERPINENE	0.03
9	11.54	1-HEXANOL	0.04
10	11.91	ROSE cis-OXIDE	0.03
11	12.05	2-PENTANONE, 4-HYDROXY-4-METHYL-	0.11
12	12.95	ROSEFURAN	0.03
13	14.53	trans-THUYANOL	0.07
14	15.50	PENTADECANE	0.11
15	16.37	$\beta$ -BOURBONENE	0.04
16	16.47	LINALOOL	0.05
17	16.68	trans-p-MENTH-2-EN-1-OL	0.03
18	18.05	$\beta$ -ELEMENE	0.09
19	18.11	$\alpha$ -GUAIENE	0.26
20	18.14	HEXADECANE	0.04
21	18.39	$\beta$ -CARYOPHYLLENE	0.30
22	19.55	CITRONELLYL ACETATE	0.12
23	20.19	$\alpha$ -HUMULENE	0.20
24	20.25	NERAL	0.11
25	20.42	METHYL GERANATE	0.04
26	20.59	HEPTADECANE	0.75
27	20.89	ACIPHYLLENE	0.05
28	21.06	1-HEPTADECENE	0.11
29	21.15	GERMACRENE D	0.64
30	21.23	$\alpha$ -BULNESENE	0.20

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ROSE ABSOLUTE (BULGARIA) – 12013

Peak	RT (min)	COMPONENT name	%
31	21.38	GERANIAL	0.39
32	21.73	E,E- $\alpha$ -FARNESENE	0.05
33	21.83	GERANYL ACETATE	0.32
34	21.92	<b>CITRONELLOL</b>	<b>8.59</b>
35	22.42	NERYL PROPIONATE	0.03
36	22.63	2-PHENYLETHYL FORMATE	0.04
37	22.76	<b>NEROL</b>	<b>3.28</b>
38	22.93	cis-ISOGERANIOL	0.04
39	23.00	OCTADECANE	0.12
40	23.32	2-PHENYLETHYL ACETATE	0.20
41	23.44	OCTADECENE ISOMER	0.06
42	23.81	<b>GERANIOL</b>	<b>6.51</b>
43	24.22	ALIPHATIC ESTER	0.04
44	24.53	BENZYL ALCOHOL	0.43
45	25.44	<b>PHENYLETHYL ALCOHOL</b>	<b>52.38</b>
46		NONADECANE	
47	25.73	9-NONADECENE	2.14
48	26.07	NONADECENE ISOMER	0.02
49	26.34	ENANTHIC ACID	0.05
50	26.43	NONADECENE ISOMER	0.02
51	26.63	NONADECENE ISOMER	0.04
52	27.54	EICOSANE	0.12
53	27.60	METHYLEUGENOL	0.54
54	27.90	5-EICOSENE	0.13
55	28.16	NEROLIDOL	0.04
56	28.29	EICOSENE ISOMER	0.03
57	29.20	ELEMOL	0.16
58	29.42	SESQUITERPENIC OXIDE	0.04
59	29.68	HENEICOSANE	0.32
60	30.02	10-HENEICOSENE	0.18

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ROSE ABSOLUTE (BULGARIA) – 12013

Peak	RT (min)	COMPONENT name	%
61	30.33	HENEICOSENE ISOMER	0.03
62	30.42	HENEICOSENE ISOMER	0.26
63	30.59	HENEICOSENE ISOMER	0.07
64	30.75	HENEICOSENE ISOMER	0.02
65	30.87	EUGENOL	1.77
66	30.99	HENEICOSENE ISOMER	0.03
67	31.13	HENEICOSENE ISOMER	0.03
68	32.00	POGOSTOL	0.05
69	32.26	α-EUDESOL	0.06
70	32.47	β-EUDESOL	0.11
71	32.74	CITRONELIC ACID	0.07
72	32.97	ETHYL PALMITATE	0.04
73	33.41	Z,E-FARNESYL ACETATE	0.05
74	33.60	DOCOSENE ISOMER	0.06
75	33.71	FARNESOL ISOMER	0.15
76	34.22	GERANIC ACID	0.70
77	34.28	TRICOSENE ISOMER	0.06
78	34.45	E,E-FARNESOL	1.34
79	34.60	9-TRICOSENE	0.15
80	34.94	TRICOSENE ISOMER	0.08
81	35.27	TRICOSENE ISOMER	0.04
82	35.36	PHENYLETHYLIC ESTER	0.08
83	36.93	TETRACOSENE ISOMER	0.07
84	37.13	LAURIC ACID	0.07
85	37.26	PENTACOSANE	0.04
86	37.90	PHENYLETHYLIC ESTER	0.13
87	38.20	ETHYL LINOLEATE	0.05
88	38.55	PENTACOSENE ISOMER	0.07
89	38.79	PENTACOSENE ISOMER	0.04
90	39.18	METHYL LINOLENATE	0.22

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ROSE ABSOLUTE (BULGARIA) – 12013

Peak	RT (min)	COMPONENT name	%
91	39.35	CITRONELIC ESTER	0.04
92	39.76	MYRISTYL CAPRYLATE	0.18
93	40.10	BENZYL BENZOATE	0.04
94	40.43	AROMATIC COMPOUND	0.04
95	40.71	AROMATIC COMPOUND	0.02
96	41.12	MYRISTIC ACID	0.07
97	41.22	TERPENIC COMPOUND	0.13
98	41.93	MYRISTYL PELARGONATE	0.18
99	42.00	HEPTACOSENE ISOMER	0.21
100	42.10	PHENYLETHYLIC ESTER	0.09
101	42.48	HEPTACOSENE ISOMER	0.06
102	43.16	PHENYLETHYLIC ESTER	0.06
103	43.37	OCTACOSENE ISOMER	0.28
104	43.81	AROMATIC COMPOUND	0.07
105	44.36	PHENYLETHYLIC ESTER	0.09
106	44.51	PENTADECYL PELARGONATE	0.21
107	44.61	PALMITYL CAPRYLATE	0.22
108	45.26	ALIPHATIC ALCOHOL	0.07
109	45.38	AROMATIC COMPOUND	0.05
110	46.66	PALMITIC ACID	0.68
111	47.40	TERPENIC COMPOUND	0.04
112	47.59	PALMITYL PELARGONATE	0.13
113	48.38	AROMATIC COMPOUND	0.05
114	49.79	NONACOSENE ISOMER	0.12
115	50.34	AROMATIC ESTER	0.50
116	51.48	PHENYLETHYLIC ESTER	0.11
117	52.81	ALIPHATIC ESTER	0.11
118	52.92	DITERPENIC COMPOUND	0.18
119	54.57	ALIPHATIC ESTER	0.53
120	54.99	STEARIC ACID	0.18

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ROSE ABSOLUTE (BULGARIA) – 12013

Peak	RT (min)	COMPONENT name	%
121	57.43	AROMATIC COMPOUND	0.05
122	59.32	LINOLEIC ACID	0.71
123	60.26	AROMATIC ESTER	0.25
124	61.67	DITERPENIC COMPOUND	0.11
125	62.45	PHENYLETHYLIC ESTER	0.65
126	63.66	LINOLENIC ACID	0.78
127	64.29	DITERPENIC COMPOUND	0.14
128	64.52	PHENYLETHYLIC ESTER	0.09
129	65.09	ALIPHATIC ALCOHOL	0.50
130	66.94	GERANIC ESTER	0.80
131	68.66	ALIPHATIC ESTER	0.12
132	69.70	ALIPHATIC ESTER	0.09
133	70.35	DITERPENIC COMPOUND	0.41
134	72.13	DITERPENIC COMPOUND	0.12
135	72.94	ALIPHATIC ESTER	0.61
136	79.58	DITERPENIC COMPOUND	0.31
137	79.88	PHENYLETHYLIC ESTER	0.23
138	88.65	AROMATIC ESTER	0.78
139	98.32	AROMATIC ESTER	0.66
		<b>TOTAL</b>	<b>99.86</b>

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