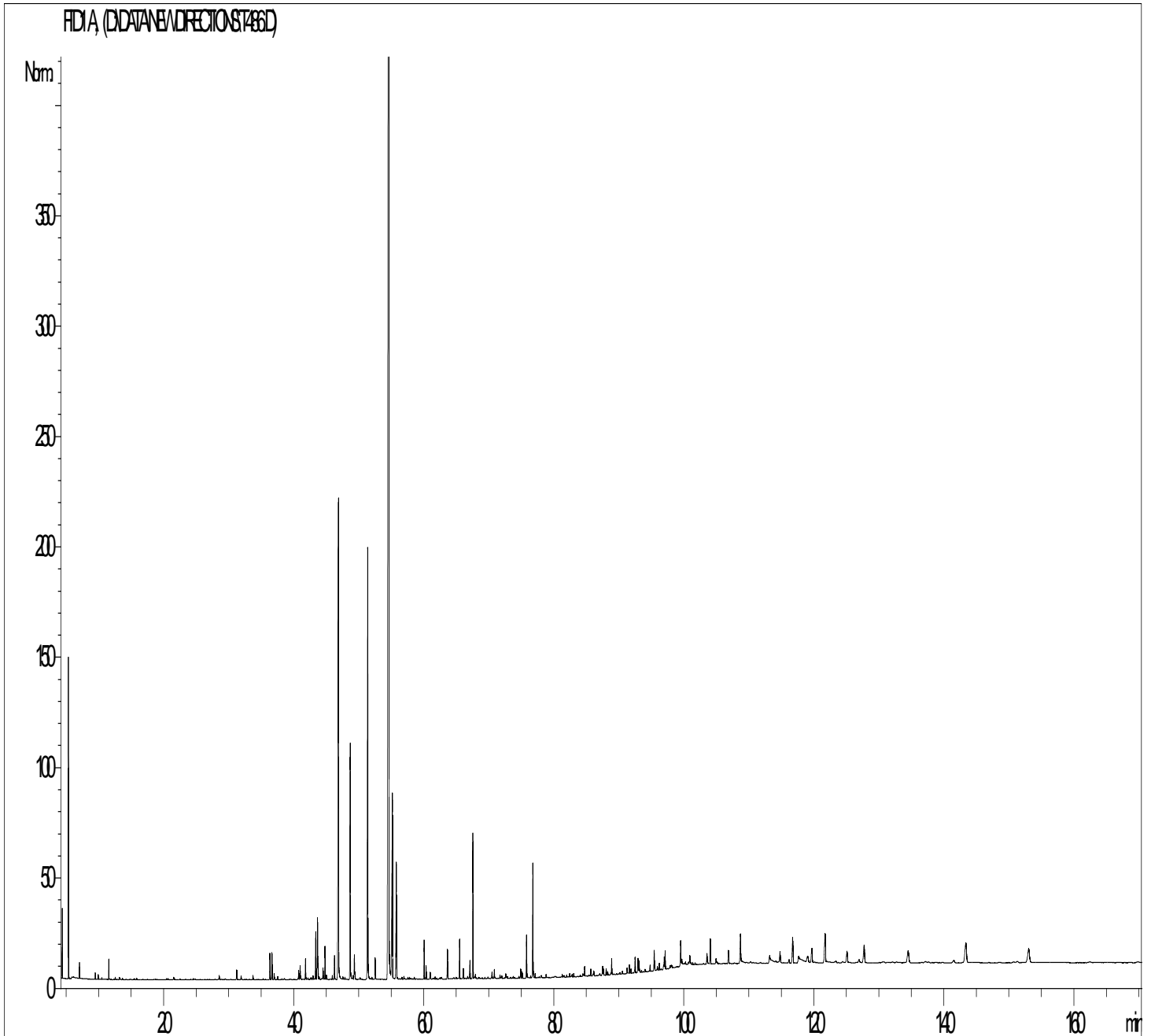




GCMS ANALYSIS

PRODUCT NAME: ROSE ABSOLUTE BULGARIA - 12013

DATE: October 10, 2018



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)	Compound name	%
1	4,3	ACETONE	0,28
2	5,3	ETHANOL	1,64
3	7,0	alpha-PINENE	0,09
4	9,4	Cis-beta-OCIMENE	0,05
5	9,9	Trans-beta-OCIMENE	0,03
6	10,5	ALIPHATIC ESTER	0,01
7	11,5	beta-MYRCENE	0,16
8	12,5	HEPTANAL	0,02
9	13,2	ALIPHATIC ESTER	0,02
10	15,8	ALIPHATIC ESTER	0,01
11	21,5	ALIPHATIC ESTER	0,02
12	21,6	ALIPHATIC ESTER	0,02
13	28,5	ALIPHATIC ALCOHOL	0,05
14	31,2	PENTADECANE	0,12
15	31,9	beta-BOURBONENE	0,05
16	33,7	ESTER ALIPHATIQUE	0,05
17	36,3	alpha-GUAIENE	0,35
18	36,6	beta-CARYOPHYLLENE	0,36
19	36,9	ALIPHATIC ALCOHOL	0,07
20	37,5	ALIPHATIC ESTER	0,04
21	40,7	CITRONELLYL ACETATE	0,12
22	40,9	alpha-HUMULENE	0,19
23	41,8	NERAL	0,27
24	42,2	SESQUITERPENE	0,02
25	42,7	alpha-TERPINEOL	0,03
26	42,9	ACYPHYLLENE	0,05
27	43,3	GERMACRENE D	0,68
28	43,6	HEPTADECANE	0,88
29	43,7	SESQUITERPENE	0,17
30	43,9	SESQUITERPENE	0,04

Disclaimer & Caution

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: ROSE ABSOLUTE BULGARIA - 12013

Peak	RT (min)	Compound name	%
31	44,5	8-HEPTADECENE	0,16
32	44,7	GERANIAL	0,42
33	45,0	ALIPHATIC ESTER	0,06
34	45,9	alpha-FARNESENE + delta-CADINENE	0,05
35	46,2	GERANYL ACETATE	0,33
36	46,8	CITRONELLOL	8,52
37	47,5	PHENYLETHYLIC ESTER	0,04
38	47,8	ALIPHATIC ALCOHOL	0,04
39	48,6	NEROL	3,32
40	49,1	Cis-ISOGERANIOL	0,04
41	49,3	2-PHENYLETHYL ACETATE	0,33
42	49,4	Trans-ISOGERANIOL	0,09
43	51,4	GERANIOL	6,63
44	52,5	BENZYL ALCOHOL	0,31
45	54,6	PHENYLETHYLIC ALCOHOL	48,70
46	28,4	CITRONELLOL	6,62
46	55,2	NONADECANE C19	3,90
47	55,8	9-NONADECENE C19	1,93
48	56,6	ALIPHATIC ESTER	0,02
49	56,9	ALIPHATIC ALCOHOL	0,04
50	57,5	AROMATIC COMPOUND	0,03
51	60,0	METHYLEUGENOL	0,50
52	60,3	EICOSANE	0,18
53	60,9	EICOSENE	0,10
54	61,7	ALIPHATIC ESTER	0,03
55	63,6	ELEMOL	0,39
56	65,5	HENEICOSANE C21	0,55
57	66,0	HENEICOSENE ISOMER	0,14
58	66,7	HENEICOSENE ISOMER	0,04
59	67,0	HENEICOSENE ISOMER	0,27
60	67,5	EUGENOL	1,99

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: ROSE ABSOLUTE BULGARIA - 12013

Peak	RT (min)	Compound name	%
61	67,9	gamma-EUDESOL	0,08
62	70,5	alpha-EUDESOL	0,09
63	70,8	beta-EUDESOL	0,13
64	71,7	AROMATIC COMPOUND	0,06
65	71,9	DOCOSENE ISOMER	0,04
66	72,6	ETHYL PALMITATE	0,06
67	74,9	FARNESYL ACETATE	0,13
68	75,1	TRICOSANE C23 Mw=324	0,08
69	75,8	GERANIC ACID	0,62
70	76,7	TRICOSENE + FARNESOL	1,58
71	77,1	TRICOSENE ISOMER	0,06
72	78,8	CITRONELIC ESTER	0,04
73	81,3	ALIPHATIC ESTER	0,03
74	82,4	ALIPHATIC ESTER	0,05
75	83,0	GERANIC ESTER	0,04
76	84,4	ALIPHATIC ESTER	0,05
77	84,7	ALIPHATIC ESTER	0,12
78	85,6	ALIPHATIC ALCOHOL	0,09
79	86,1	ALIPHATIC ESTER	0,05
80	87,5	ETHYL LINOLENATE	0,15
81	87,6	CITRONELIC ESTER	0,08
82	88,0	AROMATIC COMPOUND	0,08
83	88,3	BENZYLIC ESTER	0,05
84	88,8	MYRISTYL CAPRYLATE	0,19
85	91,2	ALIPHATIC ALCOHOL	0,09
86	91,6	AROMATIC COMPOUND	0,11
87	91,8	ALIPHATIC ESTER	0,07
88	92,5	AROMATIC COMPOUND	0,25
89	92,9	ALIPHATIC ESTER	0,16
90	93,0	ALIPHATIC ALCOHOL	0,17
61	67,9	gamma-EUDESOL	0,08

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: ROSE ABSOLUTE BULGARIA - 12013

Peak	RT (min)	Compound name	%
91	94,7	ALIPHATIC ALCOHOL	0,08
92	95,4	ALIPHATIC ESTER	0,32
93	95,9	ALIPHATIC ALCOHOL	0,05
94	96,2	PHENYLETHYL ESTER	0,09
95	96,9	OCTADECYL CAPRYLATE	0,23
96	97,2	ALIPHATIC ESTER	0,24
97	99,5	PALMITIC ACID	0,36
98	99,6	AROMATIC COMPOUND	0,04
99	100,9	NONACOSYL ACETATE	0,15
100	103,5	NONACOSANOL	0,19
101	104,0	CITRONELIC ESTER	0,41
102	104,9	PHENYLETHYL ESTER	0,07
103	106,8	NERYL ESTER	0,27
104	108,7	GERANYL ESTER	0,65
105	113,2	LINOLEIC ACID	0,43
106	114,8	CITRONELIC ESTER	0,25
107	116,2	ALIPHATIC ESTER	0,09
108	116,7	PHENYLETHYL ESTER	0,67
109	117,6	LINOLENIC ACID	0,53
110	119,0	ALIPHATIC ESTER	0,24
111	119,7	ALIPHATIC ESTER	0,40
112	121,7	GERANYL ESTER	0,87
113	125,0	ALIPHATIC ESTER	0,35
114	126,9	ALIPHATIC ESTER	0,10
115	127,7	ALIPHATIC ESTER	0,61
116	134,5	PHENYLETHYL ESTER	0,57
117	141,5	GERANYL ESTER	0,10
118	143,3	METHYLPHENYL ESTER	0,97
119	153,0	PHENYLMETHYL ESTER	0,74
		TOTAL	99.91

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