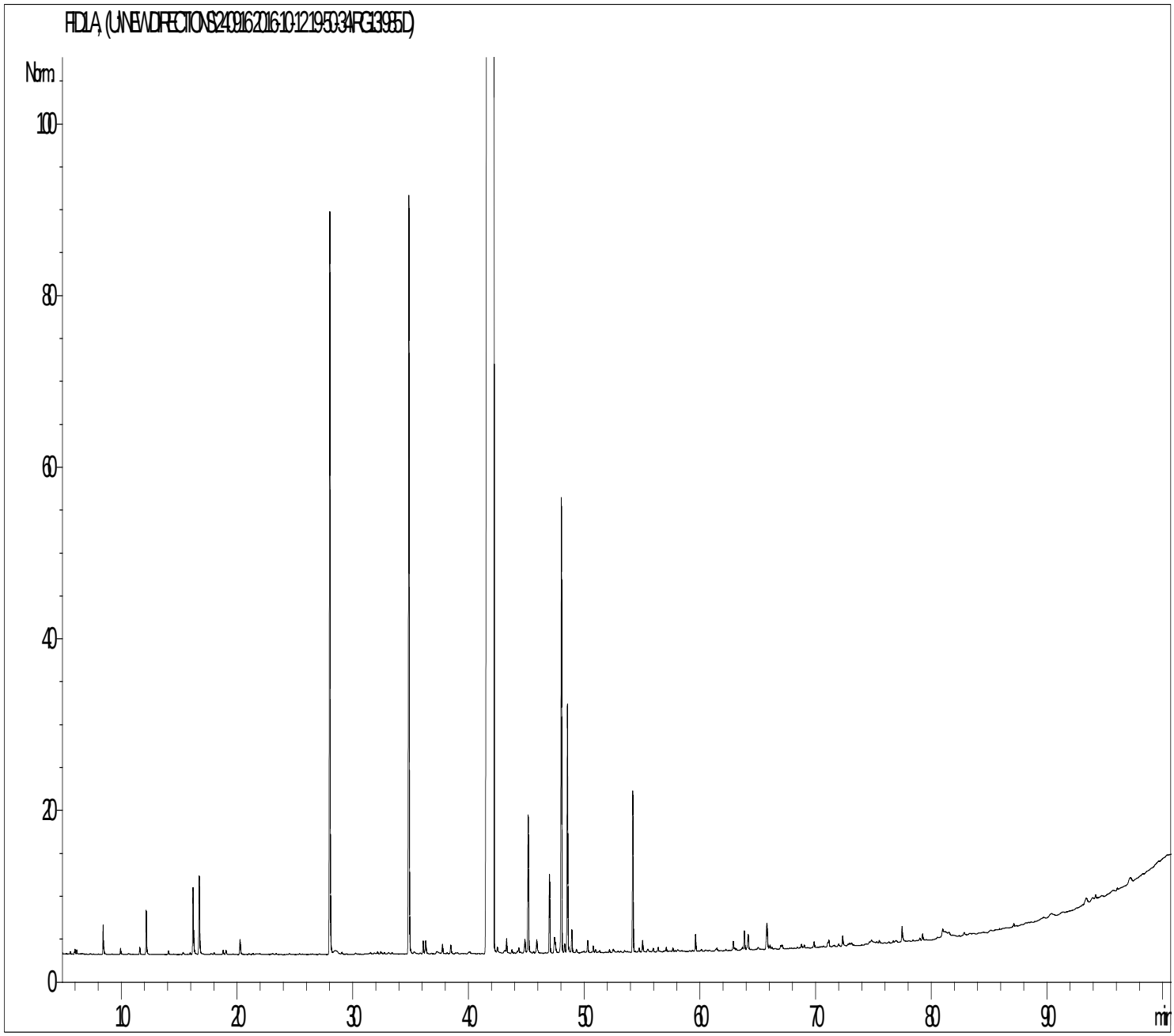
NEW DIRECTIONS
AROMATICS

GCMS ANALYSIS

PRODUCT NAME: RUE ESSENTIAL OIL – 11216
DATE: October 31, 2016



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.

NEW DIRECTIONS AROMATICS

GCMS ANALYSIS *(cont'd.)*

PRODUCT NAME: RUE ESSENTIAL OIL – 11216

Peak	RT (min)	Compound	%
1	4,8	ACETONE	0,02
2	8,4	α-PINENE	0,03
3	8,5	α-THUYENE	0,01
4	9,9	CAMPHENE	0,01
5	11,5	β-PINENE	0,01
6	12,1	SABINENE	0,06
7	14,0	β-MYRCENE	0,01
8	15,3	2-HEPTANONE	0,01
9	16,2	LIMONENE	0,13
10	16,7	1,8-CINEOLE	0,13
11	16,8	β-PHELLANDRENE	0,01
12	18,8	γ-TERPINENE	0,01
13	19,0	Trans-β-OCIMENE	0,01
14	20,2	p-CYMENE	0,03
15	28,0	2-NONANONE	1,28
16	28,5	NONANOL	0,03
17	34,8	2-DECANONE	1,37
18	36,0	CAMPHRE	0,02
19	36,3	BENZALDEHYDE	0,03
20	37,7	LINALOL	0,02
21	38,4	1-OCTANOL	0,02
22	42,2	**2-UNDECANONE**	**94,09**
23	42,3	β-CARYOPHYLLENE	0,10
24	42,5	SESQUITERPENE	0,01
25	43,3	DECENYLE ACETATE ISOMER	0,02
26	44,3	ALIPHATIC ALCOHOL	0,02
27	44,8	2-UNDECENAL	0,02
28	45,1	UNDECYLE ACETATE ISOMER	0,24
29	45,8	3-DEDECANONE	0,03
30	47,0	DODECENYLE ACETATE ISOMER	0,14
31	47,4	α-TERPINEOLE	0,05
32	48,0	2-DODECANONE	0,80

Disclaimer & Caution
Please refer to the Material Safety Data Sheet (MSDS) and all other relevant technical information specific to the product, prior to use. The user of this product is solely responsible for determining the suitability of the product for their particular use and to be in compliance with all laws and regulations applying to the use of this product. New Directions Aromatics Inc. shall not be held responsible for any damages or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge, wrongful application or the improper handling or use of this product. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained. The information on the New Directions Aromatics Inc. website is obtained from current and reliable sources but makes no representation as to its comprehensiveness or accuracy. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.

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GCMS ANALYSIS *(cont'd.)*

PRODUCT NAME: RUE ESSENTIAL OIL – 11216

Peak	RT (min)	Compound	%
33	48,3	SESQUITERPENE	0,01
34	48,5	2-UNDECANOL	0,41
35	48,9	Z,E-FARNESENE ISOMER	0,04
36	50,3	α-FARNESENE	0,02
37	50,8	AROMATIC COMPOUND	0,01
38	52,5	METHYL SALICYLATE	0,02
39	54,2	2-TRIDECANONE	0,29
40	55,0	AROMATIC COMPOUND	0,02
41	59,6	INSATURED ALIPHATIC KETONE	0,03
42	62,9	AROMATIC COMPOUND	0,03
43	63,8	CARYOPHYLLENE OXIDE	0,05
44	64,1	AROMATIC COMPOUND	0,04
45	65,7	TRIDECANE-2,4-DIONE Mw=212	0,07
46	69,9	AROMATIC COMPOUND	0,01
47	71,1	PENTADECANONE TRIMETHYL	0,02
48	72,3	CAPRYLIC ACID	0,02
49	77,5	CAPRIC ACID	0,03
50	79,2	CARYOPHYLLA-3,7-DIEN-6-OL	0,01
51	81,0	DITERPENE Mw=272	0,06
52	104,9	PALMITIC ACID	0,03
		TOTAL	**99,99**

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