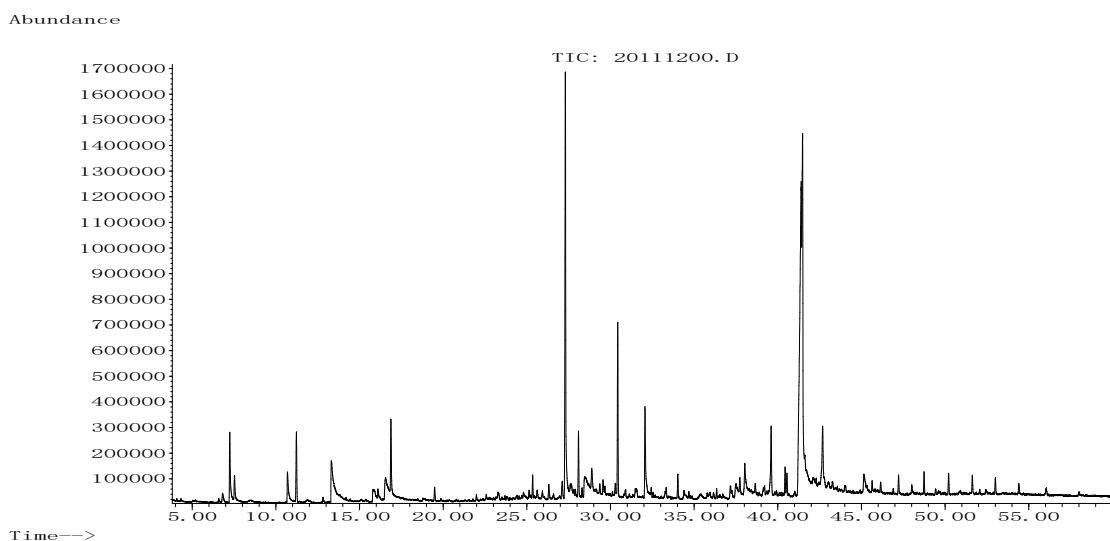
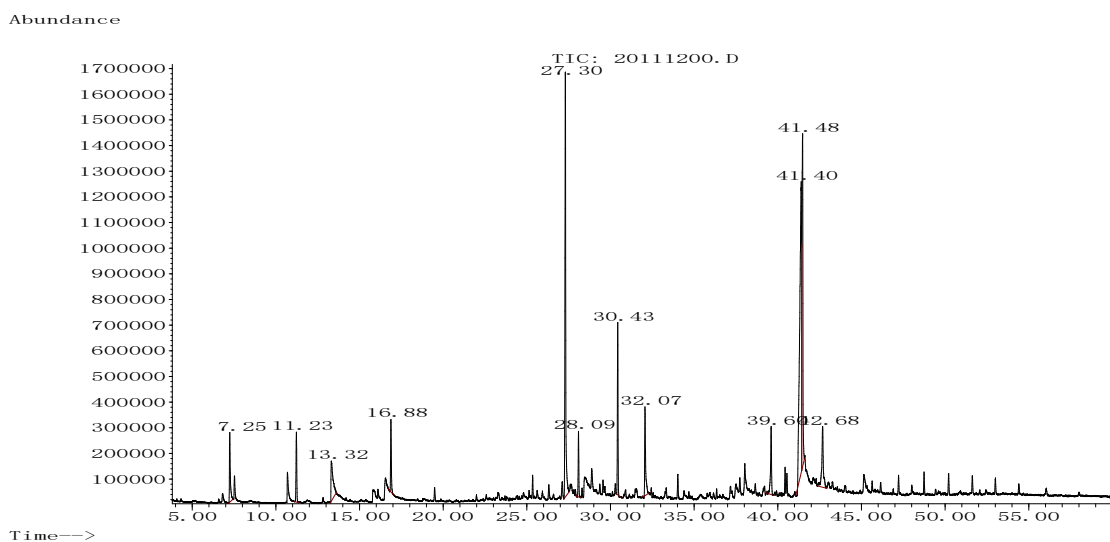


## The GC-MS results of *Duddingtonia flagrans*



### Area Percent Report

Data File : C:\MSDCHEM\1\DATA\20111200.D

Acq On : 12 Nov 2020 16:38

Sample : MAF-GM

Misc :

Vial: 1

Operator:

Inst : GCMS

Multiplr: 1.00

Sample Amount: 0.00

MS Integration Params: autoint1.e

Method : C:\MSDCHEM\1\METHODS\D-DDVP.M (Chemstation Integrator)

Title :

Signal : TIC

peak #	R.T. first min	max last scan scan	PK scan TY	peak height	corr. area	corr. % max.	% of total
1	7.245	880 892	936 PV	274578	11504382	11.88%	2.052%
2	7.528	936 945	1026 VB 5	103703	5360091	5.54%	0.956%
3	10.696	1488 1538	1619 PV 2	117921	7900252	8.16%	1.409%
4	11.230	1619 1638	1659 VV	275514	8845405	9.14%	1.578%
5	13.319	2020 2029	2119 VV 3	160928	20600532	21.28%	3.675%
6	13.827	2119 2124	2183 VV 3	26565	3457214	3.57%	0.617%
7	15.878	2504 2508	2541 VV 10	43051	3308607	3.42%	0.590%
8	16.102	2541 2550	2596 VV 6	45273	2796148	2.89%	0.499%
9	16.556	2612 2635	2682 PV 4	83282	10367834	10.71%	1.849%
10	16.877	2682 2695	2764 VV 2	305142	12667376	13.08%	2.260%
11	24.805	4169 4179	4224 VV 2	30535	2778061	2.87%	0.496%
12	25.350	4269 4281	4294 VV 3	96247	3042172	3.14%	0.543%
13	26.317	4437 4462	4494 PV 3	56923	2556214	2.64%	0.456%
14	27.118	4597 4612	4630 VV 8	69718	3060900	3.16%	0.546%
15	27.305	4630 4647	4691 VV 2	1661307	59122732	61.06%	10.547%
16	27.663	4707 4714	4735 VV 8	56372	3484371	3.60%	0.622%
17	28.090	4780 4794	4823 VV	255720	7742529	8.00%	1.381%
18	28.470	4849 4865	4901 VV 6	84219	10969189	11.33%	1.957%
19	28.683	4901 4905	4927 VV 6	57495	4056289	4.19%	0.724%
20	28.881	4927 4942	4971 VV 7	113740	8382606	8.66%	1.495%
21	29.362	5011 5032	5058 VV 4	54085	3599664	3.72%	0.642%
22	29.554	5058 5068	5081 VV 5	68082	2961899	3.06%	0.528%
23	30.291	5183 5206	5219 VV 9	51358	2527331	2.61%	0.451%
24	30.436	5219 5233	5260 VV	685237	18917805	19.54%	3.375%
25	32.065	5526 5538	5595 VV 3	351927	16858043	17.41%	3.007%
26	34.026	5890 5905	5956 VV 2	97625	3474236	3.59%	0.620%
27	34.400	5956 5975	6018 VV 9	34553	2950838	3.05%	0.526%
28	35.425	6134 6167	6207 VV 9	20720	2874163	2.97%	0.513%
29	37.178	6463 6495	6505 PV 6	51897	2649296	2.74%	0.473%
30	37.503	6533 6556	6583 VV 4	60439	5988987	6.19%	1.068%
31	37.728	6583 6598	6620 VV 9	83979	4921042	5.08%	0.878%
32	38.032	6637 6655	6698 VV 4	136392	11848258	12.24%	2.114%
33	38.657	6756 6772	6787 VV 8	59618	3435436	3.55%	0.613%
34	39.603	6911 6949	6978 VV 4	278898	14405728	14.88%	2.570%
35	40.436	7092 7105	7114 VV 5	119613	3725792	3.85%	0.665%
36	40.548	7114 7126	7139 VV 8	95699	3696097	3.82%	0.659%
37	41.398	7233 7285	7290 VV 8	1207526	96820174	100.00%	17.271%
38	41.478	7290 7300	7321 VV 7	1404363	67097490	69.30%	11.969%
39	41.617	7321 7326	7408 VV 7	163348	24569575	25.38%	4.383%
40	42.135	7408 7423	7445 VV 7	76958	7773995	8.03%	1.387%
41	42.295	7445 7453	7470 VV 10	72602	4491826	4.64%	0.801%
42	42.445	7470 7481	7496 VV 10	57210	4477079	4.62%	0.799%
43	42.680	7496 7525	7566 VV 4	273649	23004712	23.76%	4.104%
44	43.017	7566 7588	7609 VV 6	56829	6338107	6.55%	1.131%
45	43.273	7624 7636	7654 VV 6	56539	4085124	4.22%	0.729%

46	43.460	7654	7671	7682	VV 6	34927	2739017	2.83%	0.489%
47	45.148	7958	7987	8016	VV 10	81627	7842946	8.10%	1.399%
48	45.640	8068	8079	8099	VV 6	56980	2785183	2.88%	0.497%
49	46.147	8163	8174	8213	VV 5	50110	2899447	2.99%	0.517%
50	48.743	8643	8660	8680	VV 2	89296	2725935	2.82%	0.486%
51	50.213	8923	8935	8956	VV 4	84754	2741638	2.83%	0.489%
52	51.628	9164	9200	9222	VV 3	76498	3349732	3.46%	0.598%

Sum of corrected areas: 560579501

Information from Data File:

File: C:\MSDCHEM\1\DATA\20111200.D  
 Operator:  
 Date Acquired: 12 Nov 2020 16:38  
 Method File: DLK  
 Sample Name: MAF-GM  
 Misc Info:  
 Vial Number: 1

Search Libraries: C:\Database\wiley7n.l Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak  
 Integration Events: Chemstation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
<hr/>						
1	7.24	2.05	C:\Database\wiley7n.l			
			Cyclohexanol \$\$ Adronal \$\$ Adro...	8465	000108-93-0	95
			Cyclohexanol (CAS) \$\$ Anol \$\$ N...	8469	000108-93-0	95
			Cyclohexanol (CAS) \$\$ Anol \$\$ N...	8473	000108-93-0	94
<hr/>						
2	7.53	0.96	C:\Database\wiley7n.l			
			Cyclohexanone \$\$ Anon \$\$ Anone ...	7095	000108-94-1	90
			Cyclohexanone	7094	000108-94-1	90
			Cyclohexanone	7093	000108-94-1	90
<hr/>						
3	10.70	1.41	C:\Database\wiley7n.l			
			Cyclohexanamine, N,N-dimethyl- ...	23795	000098-94-2	91
			Cyclohexanamine, N,N-dimethyl-	23794	000098-94-2	83
			3-Piperidinone, 1-ethyl- \$\$ 1-E...	23649	043152-93-8	78
<hr/>						
4	11.23	1.58	C:\Database\wiley7n.l			
			Heptane, 2,2,4,6,6-pentamethyl-	74449	013475-82-6	83
			Heptane, 2,2,4,6,6-pentamethyl-...	74451	013475-82-6	83
			Heptane, 2,2,4,6,6-pentamethyl-...	74452	013475-82-6	83
<hr/>						
5	13.32	3.67	C:\Database\wiley7n.l			
			2-Pyrrolidinone, 1-methyl- (CAS...	7640	000872-50-4	90
			2-Pyrrolidinone, 1-methyl- \$\$ M...	7643	000872-50-4	80
			2-Pyrrolidinone, 1-methyl- (CAS...	7645	000872-50-4	78
<hr/>						
6	13.83	0.62	C:\Database\wiley7n.l			

			Acetoxy-(3-aminopropyl)butylborane	93915	000000-00-0	43
			Cyclopropane carboxylic acid, 1...	8073	000000-00-0	38
			4-Methyltetrahydropyran	8646	000000-00-0	30
7	15.88	0.59	C:\Database\wiley7n.l			
			3-azido-2-pyridone \$\$ 2(1H)-Pyr...	30629	022714-02-9	38
			ethyl 2-methylbuta-2,3-dienoate	22521	005717-41-9	38
			4-azido-5-tert-butyl-2-cyano-2-...	161642	074987-59-0	28
8	16.10	0.50	C:\Database\wiley7n.l			
			Nonanal	38507	000124-19-6	80
			Nonanal (CAS) \$\$ n-Nonanal \$\$ n...	38508	000124-19-6	64
			Dodecanal (CAS) \$\$ n-Dodecanal ...	93114	000112-54-9	35
9	16.56	1.85	C:\Database\wiley7n.l			
			Benzeneethanol (CAS) \$\$ Pheneth...	19944	000060-12-8	91
			Phenylethyl Alcohol	19948	000060-12-8	91
			Benzeneethanol (CAS) \$\$ Pheneth...	19951	000060-12-8	91
10	16.88	2.26	C:\Database\wiley7n.l			
			Octanoic acid, methyl ester (CA...	57752	000111-11-5	94
			Octanoic acid, methyl ester (CA...	57750	000111-11-5	91
			Octanoic acid, methyl ester (CA...	57748	000111-11-5	91
11	24.80	0.50	C:\Database\wiley7n.l			
			Benzaldehyde, 3-hydroxy-4-metho...	48685	000621-59-0	30
			Benzaldehyde, 4-hydroxy-3-metho...	48696	000121-33-5	30
			Vanillin	48699	000121-33-5	27
12	25.35	0.54	C:\Database\wiley7n.l			
			Tetradecane (CAS) \$\$ n-Tetradec...	113292	000629-59-4	97
			Tetradecane	113289	000629-59-4	96
			Tetradecane \$\$ n-Tetradecane \$\$...	113291	000629-59-4	95
13	26.32	0.46	C:\Database\wiley7n.l			
			Butanoic acid, hexyl ester (CAS...	76417	002639-63-6	64
			Butanoic acid, hexyl ester (CAS...	76419	002639-63-6	56
			Propanoic acid, 2-methyl-, hexy...	76451	002349-07-7	53
14	27.12	0.55	C:\Database\wiley7n.l			
			2,5-Cyclohexadiene-1,4-dione, 2...	144342	000719-22-2	92
			2,5-Cyclohexadiene-1,4-dione, 2...	144346	000719-22-2	91
			2,5-Cyclohexadiene-1,4-dione, 2...	144343	000719-22-2	91
15	27.31	10.55	C:\Database\wiley7n.l			
			1-Dodecanol (CAS) \$\$ n-Dodecano...	95935	000112-53-8	95
			1-Dodecanol	95931	000112-53-8	95
			1-Dodecanol (CAS) \$\$ n-Dodecano...	95929	000112-53-8	95
16	27.66	0.62	C:\Database\wiley7n.l			
			Butanoic acid, propyl ester (CA...	26467	000105-66-8	72
			Butanoic acid, butyl ester (CAS...	40296	000109-21-7	56
			Butanoic acid, propyl ester (CA...	26460	000105-66-8	56
17	28.09	1.38	C:\Database\wiley7n.l			
			Decane, 5,6-dipropyl-	154957	119209-20-0	86

			bis(2-Ethylhexyl) ether	177063 000000-00-0 80
			Nonane, 2,3-dimethyl- \$\$ 2,3-Di...	56263 002884-06-2 64
18	28.47	1.96	C:\Database\wiley7n.l	
			Acetamide, N-(2-phenylethyl)- \$...	63352 000877-95-2 90
			PHENYLETHYLAMINE ACET. \$\$ P.E.A...	63410 000000-00-0 90
			Acetamide, N-(2-phenylethyl)-	63353 000877-95-2 83
19	28.68	0.72	C:\Database\wiley7n.l	
			1-(phenylvinyl)-1-cyclopentene	74528 135312-78-6 35
			Pyrimidine, 4-methyl-2-phenyl- ...	74126 034771-48-7 27
			1,1-Difluoro-2-methyl-2-vinyl-c...	17728 000000-00-0 10
20	28.88	1.50	C:\Database\wiley7n.l	
			2,3-Dimethyl-1,4-dioxo-spiro[4....	112751 000000-00-0 53
			4-METHOXY-6-PENTYL-5,6-DIHYDRO-...	112203 000000-00-0 49
			3,5-Octanedione, 2,2,7-trimethyl-	92851 069725-37-7 47
21	29.36	0.64	C:\Database\wiley7n.l	
			3-AMINO-5-DIMETHYLAMINO-1,2,4-T...	23414 051108-33-9 53
			4-NITRO-1-METHYLPYRAZOLE \$\$ 4-N...	23345 003994-50-1 52
			1-Methyl-3-nitropyrzazole	23337 054210-32-1 50
22	29.55	0.53	C:\Database\wiley7n.l	
			1H-Imidazole, 4-methyl-5-nitro-	23382 014003-66-8 53
			3-Butenoic acid, 2,2-diethyl-3-...	55271 038477-06-4 53
			1H-Imidazole, 1-methyl-5-nitro-...	23371 003034-42-2 52
23	30.29	0.45	C:\Database\wiley7n.l	
			Hexadecane \$\$ n-Cetane \$\$ n-Hex...	154910 000544-76-3 78
			Hexadecane (CAS) \$\$ n-Hexadecan...	154903 000544-76-3 60
			Hexadecane (CAS) \$\$ n-Hexadecan...	154916 000544-76-3 53
24	30.44	3.37	C:\Database\wiley7n.l	
			2-Ethylhexyl 2-ethylhexanoate \$...	195503 007425-14-1 91
			2-Ethylhexyl 2-ethylhexanoate \$...	195502 007425-14-1 90
			2-Ethylhexyl 2-ethylhexanoate	195505 007425-14-1 52
25	32.07	3.01	C:\Database\wiley7n.l	
			Cyclododecane	71563 000294-62-2 94
			Cyclododecane	71568 000294-62-2 93
			Cyclododecane	71566 000294-62-2 93
26	34.03	0.62	C:\Database\wiley7n.l	
			Silane, dimethyl-2-propenyl(tet...	263186 077774-33-5 64
			N-{8-[(2-Methoxycarbonyl-acetyl...	314840 000000-00-0 40
			3-Acridinol, 9-phenyl-	215035 109553-65-3 38
27	34.40	0.53	C:\Database\wiley7n.l	
			1,3-DIPHENYL-1,3,5,5-TETRAMETHY...	294715 000000-00-0 59
			1-Methyl-3,6-diazahomoadamantan...	190827 000000-00-0 38
			1,3-Diphenyl-4H-1,2,4-triazolin...	191067 005055-73-2 35
28	35.43	0.51	C:\Database\wiley7n.l	
			1,3-Dimethyl-melamine	51410 000000-00-0 27
			Phenol, 3,5-dimethoxy-, acetate...	108701 023133-74-6 27

1,2,3-Trimethyl-5-(2-thia-n-hex... 177560 000000-00-0 22

29 37.18 0.47 C:\Database\wiley7n.l  
 vinylbital 150464 000000-00-0 35  
 N-METHYL-2-PROPYL-5-BUTYLPIPERI... 111130 000000-00-0 35  
 1,1'-Biphenyl (CAS) \$\$ Biphenyl... 53748 000092-52-4 30

30 37.50 1.07 C:\Database\wiley7n.l  
 p-(Methylthio)benzyl alcohol \$\$... 51750 003446-90-0 43  
 (+-)Boschnialactone \$\$ Cyclopen... 52265 016802-12-3 42  
 2,8-Diazaspiro(4,4)-nonane-1,9-... 51628 000000-00-0 37

31 37.73 0.88 C:\Database\wiley7n.l  
 Silane, (hexadecyloxy)trimethyl- 265324 006221-90-5 47  
 n-Tridecanoic acid, trimethylsi... 233386 000000-00-0 38  
 n-Pentadecanoic acid, trimethyl... 265153 000000-00-0 35

32 38.03 2.11 C:\Database\wiley7n.l  
 1,2-Benzenedicarboxylic acid, b... 223230 017851-53-5 38  
 1,2-Benzenedicarboxylic acid, m... 167331 024539-56-8 38  
 1,2-Benzenedicarboxylic acid, b... 254298 000084-64-0 38

33 38.66 0.61 C:\Database\wiley7n.l  
 Eicosane (CAS) \$\$ n-Eicosane 228990 000112-95-8 83  
 Eicosane \$\$ n-Eicosane 228983 000112-95-8 83  
 Eicosane (CAS) \$\$ n-Eicosane 228982 000112-95-8 70

34 39.60 2.57 C:\Database\wiley7n.l  
 Hexadecanoic acid, trimethylsil... 279149 055520-89-3 83  
 Hexadecanoic acid, trimethylsil... 279147 055520-89-3 38  
 Hexadecanoic acid, trimethylsil... 279148 055520-89-3 35

35 40.44 0.66 C:\Database\wiley7n.l  
 9,12-Octadecadienoic acid, meth... 243102 002566-97-4 99  
 10,13-Octadecadienoic acid, met... 243108 056554-62-2 97  
 9,12-Octadecadienoic acid, meth... 243170 002462-85-3 95

36 40.55 0.66 C:\Database\wiley7n.l  
 11-Octadecenoic acid, methyl ester 245515 052380-33-3 98  
 14-Octadecenoic acid, methyl ester 245519 056554-48-4 96  
 9-Octadecenoic acid (Z)-, methy... 245476 000112-62-9 95

37 41.40 17.27 C:\Database\wiley7n.l  
 9,12-Octadecadienoic acid (Z,Z)... 226103 000060-33-3 99  
 9,12-Octadecadienoic acid (Z,Z)... 226101 000060-33-3 97  
 9,12-Octadecadienoic acid (Z,Z)- 226099 000060-33-3 95

38 41.48 11.97 C:\Database\wiley7n.l  
 9-Octadecenoic acid, (E)- 228774 000112-79-8 94  
 HEPTADECENE-(8)-CARBONIC ACID-(1) 228686 000000-00-0 93  
 9-Octadecenoic acid (Z)- (CAS) ... 228694 000112-80-1 91

39 41.62 4.38 C:\Database\wiley7n.l  
 2-benzoyl-6,7-dimethoxy-4-methy... 277921 000000-00-0 86  
 2,4-Diphenyl-3-(methylthio)-5-n... 277863 072525-35-0 78  
 1-Dimethyl(chloromethyl)silylox... 317916 000000-00-0 72

40	42.14	1.39	C:\Database\wiley7n.l		
			Hexadecanamide	193941	000629-54-9 83
			9-Octadecenamide, (Z)- (CAS) \$\$...	227140	000301-02-0 80
			Octadecanamide \$\$ Stearamide \$\$...	229847	000124-26-5 80
41	42.30	0.80	C:\Database\wiley7n.l		
			Octadecane, 2,6,10,14-tetrameth...	261320	054964-82-8 70
			Docosane (CAS) \$\$ n-Docosane \$\$...	261309	000629-97-0 70
			(2S,3R)-3-dimethyl-t-butylsilox...	181197	097848-37-8 64
42	42.44	0.80	C:\Database\wiley7n.l		
			t-Butyl (3S)-2-(5,6-di-O-acetyl...	357865	087436-58-6 17
			2-Acetamido-8-hydroxy-10,10-dim...	243927	000000-00-0 10
			9,10-Dihydro-9,10-([1',7']-tric...	244140	078365-74-9 9
43	42.68	4.10	C:\Database\wiley7n.l		
			Oleic acid, trimethylsilyl ester	301854	021556-26-3 97
			11-TRANS-OCTADECENOIC ACID 1TMS	301861	000000-00-0 96
			Oleic acid, trimethylsilyl este...	301853	000000-00-0 95
44	43.02	1.13	C:\Database\wiley7n.l		
			1-Naphthalenamine, N-phenyl-	143056	000090-30-2 76
			Nonox A \$\$ 1-Naphthalenamine, N...	143057	000090-30-2 60
			2-Naphthalenamine, N-phenyl- (C...	143068	000135-88-6 59
45	43.27	0.73	C:\Database\wiley7n.l		
			1,1'-Biphenyl, 3-nitro- \$\$ Biph...	113852	002113-58-8 30
			1,1'-Biphenyl, 3-nitro- \$\$ Biph...	113854	002113-58-8 30
			Acenaphthylene, 1,2-dihydro-5-n...	113869	000602-87-9 27
46	43.46	0.49	C:\Database\wiley7n.l		
			Tributyl acetylcitrate	333403	000077-90-7 43
			Tributyl acetylcitrate \$\$ 1,2,3...	333402	000077-90-7 37
			Ethanone, 1-(4-bromophenyl)-2,2...	188728	016184-89-7 30
47	45.15	1.40	C:\Database\wiley7n.l		
			9-Octadecenamide, (Z)- \$\$ Adoge...	227139	000301-02-0 86
			9-Octadecenamide, (Z)-	227138	000301-02-0 83
			Erucylamide \$\$ 13-Docosenamide,...	287552	000112-84-5 64
48	45.64	0.50	C:\Database\wiley7n.l		
			Tetracosane	288783	000646-31-1 91
			Tetracosane (CAS) \$\$ n-Tetracosane	288788	000646-31-1 91
			Octadecane	193176	000593-45-3 89
49	46.15	0.52	C:\Database\wiley7n.l		
			Methyl n-amyl disulfide \$\$ Disu...	45811	072437-68-4 40
			1-Methoxyphospholane sulfide	45662	078870-70-9 37
			3-Methyl-1,2-thiazolo[4,5-b]pyr...	45916	000000-00-0 25
50	48.74	0.49	C:\Database\wiley7n.l		
			Tetracosane (CAS) \$\$ n-Tetracosane	288787	000646-31-1 97
			Tetracosane	288783	000646-31-1 95
			Hexacosane	311168	000630-01-3 94

51 50.21 0.49 C:\Database\wiley7n.l  
 Heptacosane 320678 000593-49-7 94  
 Heptacosane \$\$ n-Heptacosane 320679 000593-49-7 93  
 9-methylnonadecane 229008 000000-00-0 93

52 51.63 0.60 C:\Database\wiley7n.l  
 Octacosane (CAS) \$\$ n-Octacosane 329269 000630-02-4 98  
 Octadecane (CAS) \$\$ n-Octadecan... 193184 000593-45-3 89  
 Docosane 261314 000629-97-0 89

Tue Feb 02 19:05:52 2021

**The mortality of *M. incognita* treated with other eight metabolites (10 µL).**

	Mortality of <i>M. incognita</i> %		
	6 h	12 h	24 h
Heptane	1.27 %	1.80 %	3.76 %
2-Pyrrolidinone	1.10 %	1.54 %	1.80 %
Benzeneethanol	1.04 %	1.55 %	2.48 %
Tetradecane	1.57 %	2.06 %	3.50 %
1-Dodecanol	1.22 %	1.53 %	2.40 %
Cyclododecane	0.86 %	1.47 %	2.23 %
9-Octadecenoic acid	1.12 %	1.45 %	2.70 %
Tetracosane	1.29 %	1.44 %	4.03 %
control	1.55 %	2.12 %	2.90 %