DETERMINATION OF VOLATILES IN WATER LILY FLOWERS USING GAS CHROMATOGRAPHY–MASS SPECTROMETRY

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SUPPLEMENTAL MATERIAL

Supplemental Table 1. Types and concentrations (ng/g) of volatile compounds in hardy water lily flowers. Cultivars are coded as in Table 1

[illegible]

bicyclo[5.3.0]decane	33.695	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cis,cis,cis-7,10,13-hexadecatrienal	37.759	0.00	0.00	0.00	36.77±0.09	0.00	0.00	0.00	0.00	1.01±0.08	4.21±0.05	0.00	5.82±0.08	0.00	0.00	0.00	0.00	0.00	23.80±0.01	15.85±0.06	0.00	0.00	0.00	0.00	5.48±0.07	0.00	11.26±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
caryophyllene	45.158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cyclodecene	37.558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.05±0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cyclohexene,1-methyl-4-(1-methylethylidene)	14.193	0.00	0.00	0.00	0.00	16.66±0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cyclopentadecane	30.197	0.00	0.00	53.48±0.03	0.00	0.00	0.00	0.00	27.09±0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.76±0.06	5.84±0.03	70.98±0.03	0.00	0.00	13.49±0.01	0.00	0.00	0.00	0.00	0.00	29.89±0.02	0.00	0.00	0.00	0.00	0.00	0.00
cycloundecene,1-methyl	37.577	36.22±0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
dibutyl phthalate	43.851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.02±0.07	0.00	0.00	0.00	0.00	
dodecane	18.319	0.00	0.00	0.00	20.44±0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.45±0.03	0.00	0.00	0.00	19.38±0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
eicosane	47.011	4.85±0.04	3.48±0.03	8.25±0.07	0.00	6.86±0.09	6.92±0.06	14.23±0.08	0.00	0.00	0.00	16.26±0.07	0.00	0.00	0.00	9.03±0.08	0.00	0.00	0.00	10.48±0.02	0.00	10.32±0.09	8.01±0.02	0.00	0.00	11.99±0.01	0.00	0.00	10.22±0.03	7.08±0.08	0.00	8.23±0.03	0.00	0.00	
hebeicosane	49.573	35.85±0.05	49.62±0.03	20.79±0.08	31.99±0.01	32.75±0.08	47.40±0.07	43.12±0.08	41.67±0.05	6.89±0.06	32.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hecadecane	34.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.99±0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
heneicosane	49.567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.48±0.05	57.87±0.08	21.97±0.09	38.04±0.01	29.42±0.04	63.58±0.03	25.15±0.06	23.71±0.07	26.30±0.01	47.46±0.05	60.92±0.03	41.93±0.05	42.41±0.08	70.36±0.09	104.42±0.01	52.49±0.04	40.09±0.04	70.81±0.04	50.13±0.03	66.08±0.09	38.79±0.06	33.65±0.04	40.42±0.04
heptadecane	38.952	133.26±0.03	188.05±0.03	215.07±0.02	478.70±0.02	346.76±0.08	320.10±0.08	217.83±0.07	88.72±0.06	313.56±0.03	251.92±0.06	40.80±0.09	116.25±0.08	21.82±0.08	28.60±0.06	8.45±0.08	36.50±0.08	27.78±0.01	64.12±0.03	99.74±0.03	41.19±0.07	22.42±0.06	15.01±0.07	0.00	73.28±0.03	24.64±0.04	28.95±0.03	99.49±0.02	14.62±0.05	24.59±0.01	39.66±0.02	24.81±0.01	13.95±0.09	48.45±0.09	86.70±0.06
hexadecane	34.757	0.00	24.80±0.04	17.90±0.07	172.17±0.02	40.93±0.01	20.75±0.06	24.07±0.03	11.48±0.02	49.39±0.02	11.80±0.02	40.80±0.03	116.25±0.08	21.82±0.09	28.60±0.07	8.45±0.06	36.50±0.06	27.78±0.05	64.12±0.03	99.74±0.08	41.19±0.01	22.42±0.05	15.01±0.03	0.00	73.28±0.08	24.64±0.01	28.95±0.09	99.49±0.05	14.62±0.06	24.59±0.01	39.66±0.02	24.81±0.02	13.95±0.06	48.45±0.01	86.70±0.09
hexadecane,2,6,10,14-teramethyl-	49.567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.69±0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lilac alcohol	18.853	0.00	0.00	0.00	111.84±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.50±0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lilac alcohol A	18.841	0.00	0.00	0.00	76.47±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lilac alcohol B	18.803	106.69±0.01	0.00	3.70	50.06±0.02	33.51±0.02	0.00	11.36±0.06	0.00	18.06±0.04	89.14±0.08	0.00	184.37±0.07	0.00	204.66±0.05	0.00	0.00	101.48±0.04	203.87±0.04	77.01±0.07	0.00	100.52±0.04	0.00	24.74±0.04	0.00	0.00	0.00	0.00	0.00	49.02±0.09	0.00	76.65±0.03	0.00	19.06±0.03	
Lilac alcohol C	18.878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lilac alcohol D	18.809	49.81±0.02	0.00	5.83±0.06	0.00	0.00	8.97±0.05	0.00	61.67±0.09	15.47±0.06	0.00	13.39±0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.57±0.07	30.88±0.02	0.00	32.31±0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nonadecane	44.806	40.17±0.03	61.91±0.08	165.37±0.05	151.73±0.03	10.59±0.09	13.17±0.04	32.62±0.07	6.85±0.07	5.82±0.08	65.77±0.07	233.03±0.01	115.50±0.06	107.29±0.01	46.93±0.04	70.39±0.07	160.17±0.06	132.56±0.03	95.61±0.06	116.85±0.05	170.70±0.03	63.95±0.02	100.29±0.01	154.61±0.05	150.56±0.06	119.61±0.03	167.84±0.08	127.64±0.07	138.61±0.07	247.08±0.08	105.44±0.02	176.50±0.07	80.94±0.07	155.09±0.01	99.89±0.04
octadecane	42.093	0.00	0.00	26.76±0.04	20.32±0.04	13.92±0.03	36.69±0.01	8.43±0.07	13.85±0.01	0.00	67.44±0.02	0.00	0.00	0.00	0.00	0.00	14.88±0.07	5.48±0.03	0.00	15.58±0.06	40.17±0.02	0.00	9.98±0.06	0.00	17.11±0.05	15.04±0.00	13.20±0.07	15.07±0.08	12.55±0.01	10.53±0.08	9.13±0.07	15.71±0.03	28.47±0.02	0.00	
pentadecane	30.888	339.22±0.05	12.90±0.06	719.06±0.03	1525.85±0.05	1962.5±0.07	1673.73±0.02	661.79±0.03	120.68±0.05	2201.60±0.02	1179.85±0.06	452.06±0.03	4743.96±0.05	2488.98±0.06	4290.42±0.07	553.04±0.08	1287.78±0.02	2199.86±0.02	4694.2±0.05	3820.46±0.03	1432.31±0.03	2186.03±0.01	2068.18±0.07	2422.5±0.04	3362.44±0.04	31.98±0.06	2582.95±0.06	3614.8±0.09	260.70±0.09	28.58±0.09	2268.70±0.09	1308.1±0.03	1600.41±0.02	515.45±0.05	10243.21±0.03

phthalic acid,isobutyl ester	43.789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.54±0.03	0.00	31.88±0.04	0.00	4.90±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tricyclo[4.2.1.1(2.5)]decan-3-ol	37.772	0.00	0.00	0.00	18.04±0.06	18.17±0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
tetradecanal	42.677	0.00	0.00	26.03±0.02	92.60±0.07	65.01±0.04	0.00	58.15±0.05	14.22±0.03	114.23±0.04	9.32±0.04	0.00	0.00	43.46±0.01	21.44±0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.74±0.05	0.00	0.00	0.00	0.00	0.00	0.00	28.21±0.01	0.00	0.00	
tetradecane	26.598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.07±0.08	227.34±0.06	0.00	20.53±0.02	0.00	64.35±0.09	13.89±0.01	110.90±0.08	165.88±0.02	95.96±0.04	0.00	0.00	61.42±0.08	58.47±0.03	0.00	0.00	106.06±0.01	12.36±0.08	0.00	18.67±0.05	28.58±0.04	0.00	11.72±0.09	91.92±0.03	
tricyclo[4.2.1.1(2.5)]decan-3-ol	37.847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.09±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
tridecane	22.251	0.00	724.58±0.04	53.95±0.06	641.96±0.08	125.34±0.03	28.05±0.01	89.13±0.07	41.93±0.01	153.58±0.05	10.29±0.04	130.52±0.09	424.45±0.05	0.00	13.78±0.01	0.00	596.70	9.77±0.01	247.95±0.09	198.07±0.03	121.15±0.05	0.00	0.00	265.21±0.02	76.29±0.02	0.00	0.00	152.11±0.02	102.95±0.07	0.00	19.74±0.04	55.43±0.05	17.80±0.09	20.56±0.07	96.97±0.06	
undecane	14.721	0.00	0.00	54.30±0.07	52.19±0.08	17.98±0.06	0.00	79.27±0.02	92.59±0.08	198.19±0.07	19.00±0.02	235.03±0.01	575.48±0.04	74.75±0.01	0.00	22.16±0.08	777.01	38.26±0.01	261.29±0.02	213.570.03	171.22±0.01	0.00	0.00	467.43±0.06	105.76±0.07	0.00	12.81±0.03	288.82±0.06	118.49±0.06	96.07±0.01	24.21±0.03	108.19±0.06	32.62±0.08	53.12±0.05	129.83±0.05	
Z-5-nonadecene	44.417	0.00	0.00	18.70±0.04	13.19±0.06	14.83±0.03	0.00	13.09±0.04	12.32±0.06	25.13±0.09	0.00	21.61±0.02	17.92±0.03	16.98±0.01	0.00	0.00	17.02	23.59±0.04	16.89±0.02	31.51±0.05	12.27±0.04	0.00	0.00	41.98±0.08	8.55±0.02	11.03±0.03	24.38±0.04	18.03±0.05	0.00	10.32±0.02	33.64±0.07	0.00	0.00	21.93±0.08		

Supplemental Table 2. Types and concentrations (ng/g) of volatile compounds in tropical water lily flowers. Cultivars are coded as in Table 1.

Compounds	RT	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
	(min)																						
		31.57±0.0																					
(E,E,E)-3,7,11,15-tetramethylhexadeca-1,3,6,10,14-pentaene	45.001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00
		76.63±0.0																					
1,11-dodecadien	49.046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	5.84±0.05	0.00	0.00	0.00
1,3,6-heptatriene,2,5,5-trimethyl-	47.595	5.27±0.01	0.00	0.00	13.82±0.08	11.56±0.04	0.00	0.00	9.69±0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		2169.69±0.																					
1,3-cyclohexadiene,1-methyl-4-(1-methyl)-	47.595	0.00	0.00	0.00	0.00	0.00	0.00	02	0.00	13.10±0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-cyclohexadiene,5-(1,5-dimethyl)	47.589	88.67±0.02	20.07±0.08	69.89±0.09	43.84±0.06	38.76±0.03	0.00	0.00	39.88±0.01	9.91±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		189.14±0.0																					
1,3,6,10-dodecateraene,3,7,11-trimethyl-(Z,E)	47.595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.51±0.04	0.00	19.73±0.04	0.00
		3138.89±0.																					
1,3-cyclohexadiene,5-(1,5-dimethyl-4-hexenyl)-2-methyl	28.802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.35±0.04	05	0.00	0.00	97.38±0.04	22.86±0.05	51.59±0.04	0.00	18.58±0.05	0.00	0.00	78.30±0.05	0.00
		254.50±0.0																					
1,3-cyclooctadiene(Z,Z)	29.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00

				187.56±0.0			292.80±0.0							85.89±0.0	187.63±0.0	147.65±0.0		178.23±0.0	198.53±0.0				
1,4-cyclooctadiene	44.417	0.00	54.41±0.07	1	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	9	4	4	0.00	0.00	2	4	0.00	0.00	0.00
1,5,5-trimethyl-6-methylene-cyclohexene	30.209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.31±0.04	0.00	0.00	0.00	0.00	0.00
														12.97±0.0						17.71±0.0			
1,5,9-cyclotetradecatriene,1,5,9-trimethyl-12-(1-methylethenyl)	30.191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	
																						10.58±0.0	
1,5,9-cyclododecatriene,1,5,9-trimethyl-	30.159	0.00	0.00	0.00	0.00	0.00	57.90±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
1,6,10,14-hedecatraen,3,7,11-trimethyl	48.537	0.00	7.92±0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10±0.04
			759.02±0.0			594.82±0.0	1271.10±0.	942.93±0.0		337.99±0.0	1369.58±0.		888.79±0.0	455.83±0.0		1868.96±0.		883.65±0.0	866.34±0.0	298.03±0.0	2098.55±0.		2387.12±0.
1,6,10-dodecatriene,7,11-diimethyl-3-methylene	43.267	3	747.84±0.05	2	01	2	0.00	1	02	90.14±0.02	5	6	0.00	0.00	02	64.77±0.02	2	4	4	04	0.00	02	0.00
														15.24±0.0									
1H-3a,7-Methanoazulene,2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl	33.965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.29±0.07
1H-cycloprop[e]azulene,decahydro-1,1,7-trimethyl-4methylene	29.895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20±0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.81±0.07	0.00	0.00
2-butanone,4-(2,6,6-trimethyl-1-cyclohexen-1-yl)	21.661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.64±0.07	14.93±0.07	32.18±0.07	0.00	0.00	0.00
1-nonadecene	33.846	0.00	0.00	7.32±0.03	0.00	0.00	6.37±0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-pentadecene	37.753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.85±0.07	0.00	0.00
1-tridecene	30.982	0.00	0.00	0.00	75.40±0.09	63.20±0.01	0.00	0.00	28.44±0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
							137.48±0.0																
2-heptadecanone	37.759	70.56±0.04	113.88±0.04	87.04±0.04	51.45±0.08	2	0.00	49.90±0.09	44.97±0.01	13.60±0.01	0.00	15.52±0.07	0.00	0.00	7.93±0.07	22.71±0.03	0.00	0.00	89.01±0.07	62.82±0.03	0.00	35.55±0.03	0.00
2-heptadecanone,6,10,14-trimethyl-	30.197	0.00	0.00	6.65±0.05	0.00	4.96±0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2-octene,(E)	43.851	0.00	5.64±0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.77±0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																						16.05±0.0	
2-propenoic,3-phenyl,ethyl	38.952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00
3,4-octadiene,7-methyl-	34.757	0.00	0.00	0.00	6.25±0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.92±0.07	0.00	0.00	0.00	0.00	0.00	0.00
							136.53±0.0			112.48±0.0													
3-buten-2-one,4-(2,6,6-trimethyl-2-cyclohexen-1-yl)	49.567	0.00	0.00	6	0.00	0.00	0.00	3	0.00	32.71±0.02	46.88±0.06	10.40±0.05	0.00	0.00	9.95±0.03	0.00	20.86±0.03	90.39	26.84±0.03	29.06	0.00	0.00	0.00
5-tetradecene	18.809	29.16±0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-tridecene(E)	44.806	0.00	0.00	0.00	0.00	0.00	7.11±0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			3835.29±0.	10498.93±0.	3957.57±0.	3291.56±0.	3801.19±0.	329.24±0.0	118.16±0.0		1835.80±0.	5130.39±0.	5636.28±0.	23.69±0.0	205.42±0.	6603.41±0.	4290.53±0.	5908.53±0.	6801.67±0.	4381.60±0.	4694.50±0.	20.74±0.0	5542.10±0.
6,9-Heptadecadiene	42.093	06	01	07	09	03	7	4	0.00	03	07	05	8	09	03	09	03	03	09	03	9	03	0.00
														14.50±0.0						23.76±0.0			
7-hexadecene	43.789	0.00	0.00	0.00	0.00	0.00	17.61±0.06	0.00	0.00	0.00	0.00	8.36±0.06	8	0.00	12.29±0.03	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00

7,11,15-trimethyl-3-methylene-hexadeca-1,6,10,14-tetraene	42.677	0.00	0.00	0.00	6.40±0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		998.46±0.0	1084.47±0.0							1443.68±0.	2010.70±0.	1677.43±0.	149.41±0.	298.96±0.	1756.20±0.	1585.91±0.	1914.29±0.	2725.80±0.		1536.84±0.	301.69±0.	1297.44±0.	
8-heptadecene	26.598	7	2	11.47±0.08	21.18±0.09	36.77±0.06	55.57±0.04	25.10±0.02	20.18±0.01	02	05	07	09	09	09	09	03	09	864.70	09	03	09	5.29±0.09
8-dodecen-1-ol,acetate,(Z-)	37.847	0.00	0.00	0.00	0.00	0.00	0.00	9.26±0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,12,15-octadecantrienal	22.251	0.00	0.00	0.00	4.63±0.07	6.54±0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,12-octadecadienoic acid, methyl ester	14.721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,17-octadecadienal,(Z-)	44.417	0.00	0.00	0.00	0.00	9.79±0.05	0.00	6.80±0.04	12.17±0.02	0.00	0.00	7.20±0.05	8.75±0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45	0.00
9-eicosyne	43.864	0.00	7.81±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-nonadecene	44.417	0.00	0.00	5.81±0.09	5.35±0.06	4.80±0.05	12.00±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.850.06	0.00	0.00	0.00	0.00
acetic acid,phenylmethyl ester	17.195	76.25±0.08	24.03±0.09	0.00	41.79±0.05	34.77±0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					184.06±0.0																		
alpha-Farnesene	30.982	0.00	81.85±0.08	0.00	5	3.17±0.05	0.00	85.33±0.04	235.1±0.04	76.66±0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	256.070.06	0.00	0.00	0.00	0.00
						100.33±0.0																	
benzene,1,2-dimethoxy-4-(2-propenly)-	26.918	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
						402.90±0.0																	
benzene,1,3,5-trimethoxy	27.263	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
							541.27±0.																
benzene,1,4-diethoxy-2-methyl	20.317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	320.480.06	0.00	6
						4881.77±0.			3033.37±0.														
benzoic acid, ethyl ester	17.541	0.00	0.00	0.00	13.19±0.04	04	0.00	0.00	03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
benzyl benzoate	41.358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.23±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					266.40±0.0	143.69±0.0	188.66±0.0		210.13±0.0		466.55±0.0	294.06±0.0				237.23±0.0							
bicyclo [3.1.1]hept-2-ene,2,6-dimethyl-6-(4-methyl-3-entenyl)-	27.961	70.37±0.09	89.89±0.07	1	3	5	0.00	29.00±0.05	1	37.86±0.01	6	6	0.00	6.65±0.09	557.190.06	1	499.680.06	0.00	93.13±0.01	0.00	0.00	320.730.06	0.00
bicyclo[2,2,2]octane,2-methyl	37.558	0.00	11.14±0.06	6.38±0.02	0.00	6.47±0.06	0.00	9.46±0.06	6.48±0.02	0.00	16.44±0.05	10.00±0.07	0.00	0.00	25.24±0.01	0.00	0.00	0.00	0.00	0.00	0.00	6.74±0.01	0.00
bicyclo[3.3.1]nonane	33.689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.630.06	0.00	0.00	57.450.06	0.00	0.00	0.00
Bicyclo[5.2.0]nonane,2-methyl-4,8,8-trimethyl-4-vinyl	45.151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
bicyclo[5.3.0]decane	33.695	0.00	0.00	0.00	5.12±0.02	6.30±0.09	8.49±0.04	10.60	6.31±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cis,cis,cis,-7,10,13-hexadecatrienal	37.759	0.00	0.00	0.00	35.42±0.01	0.00	0.00	47.21±0.01	2	84.26±0.02	7	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cis-7-dodecen-1-yl acetate	33.689	0.00	11.23±0.05	0.00	13.29±0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclobutanecarboxylic	15.455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.670.06	18.760.06

Cyclobutanecarboxylic acid,octyl ester	15.487	51.65 ± 0.05	0.00	0.00	9.44 ± 0.02	34.44 ± 0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.76 ± 0.0	
cyclodecene	37.558	0.00	12.55 ± 0.04	7.57 ± 0.03	10.67 ± 0.04	6.89 ± 0.07	33.06 ± 0.03	7.42 ± 0.02	0.00	0.00	32.32 ± 0.05	17.37 ± 0.07	0.00	0.00	0.00	16.84 ± 0.01	0.00	0.00	49.84	0.00	59.12	0.00	8		
Cycloheptane, 4-methylene-1-methyl-2-(2-methyl-1-propen-1-yl)-1-vinyl-	45.529	0.00	0.00	0.00	0.00	0.00	7.49 ± 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
														22.37 ± 0.0		102.76 ± 0.0									
cyclohexene,1-methyl-4-(1-methylethylidene)	14.193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cyclohexadecane	47.293	0.00	0.00	16.15 ± 0.04	0.00	0.00	0.00	0.00	0.00	12.04 ± 0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1-methylethenyl)-, [1S-(1.alpha.,2.beta.,4.beta.)]-	45.949	0.00	0.00	0.00	0.00	0.00	66.70 ± 0.03	0.00	0.00	0.00	0.00	0.00	08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	06	0.00	433.39 ± 0.		
		361.07 ± 0.0		394.54 ± 0.0	205.50 ± 0.0	247.71 ± 0.0			266.62 ± 0.0		1203.84 ± 0.	376.11 ± 0.0		38.15 ± 0.0					225.89 ± 0.0				711.47 ± 0.0		
cyclohexene,3-(1,5-dimethyl-4-hexenyl)-6-methylene-	31.691	7	241.12 ± 0.03	5	3	9	0.00	41.69 ± 0.01	2	31.24 ± 0.02	06	6	0.00	4	27.56 ± 0.06	316.52	21.78 ± 0.06	7.40 ± 0.01	1	0.00	0.00	6	7.53 ± 0.08		
cyclopentadecane	30.197	0.00	58.24 ± 0.02	0.00	31.37 ± 0.03	13.92 ± 0.08	28.64 ± 0.06	0.00	0.00	7.63 ± 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.00 ± 0.01	0.00		
																								144.67 ± 0.0	
cyclotetradecane	30.039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
E-7-dodecen-1-ol acetate	33.557	0.00	0.00	0.00	0.00	0.00	6.18 ± 0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ethanol,2-(9,12-octadecadienoic)-,(Z,Z)	33.689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00 ± 0.01	4.69 ± 0.01	15.94 ± 0.01	0.00	6.78 ± 0.01	0.00		
eicosane	47.011	0.00	0.00	0.00	0.00	0.00	7.13 ± 0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
															62.00 ± 0.0										
heneicosane	49.567	28.24 ± 0.04	40.56 ± 0.01	30.37 ± 0.06	33.99 ± 0.05	36.85 ± 0.08	92.83 ± 0.04	17.70 ± 0.02	36.37 ± 0.03	19.34 ± 0.02	17.75 ± 0.06	21.51 ± 0.06	0.00	4	16.55 ± 0.08	22.99	15.41 ± 0.08	13.41	24.12 ± 0.08	20.82	7.88	44.28	6.69 ± 0.08		
		203.36 ± 0.0		403.23 ± 0.0	149.79 ± 0.0	163.96 ± 0.0		125.26 ± 0.0	137.10 ± 0.0	169.66 ± 0.0	252.47 ± 0.0	179.61 ± 0.0	69.06 ± 0.0	24.05 ± 0.0	228.47 ± 0.0	105.04 ± 0.0	230.41 ± 0.0	683.42 ± 0.0	202.19 ± 0.0	203.99 ± 0.0	171.83 ± 0.	211.94 ± 0.0	23.61 ± 0.0		
heptadecane	38.952	6	212.01 ± 0.09	7	6	7	33.82 ± 0.05	3	3	2	6	5	4	4	2	2	2	2	2	2	02	2	8		
														17.98 ± 0.0								40.11 ± 0.0			
hexadecane	34.757	0.00	62.27 ± 0.08	10.58 ± 0.08	10.09 ± 0.04	11.24 ± 0.06	9.90 ± 0.06	13.77 ± 0.08	9.95 ± 0.03	0.00	17.30 ± 0.07	10.13 ± 0.05	8	0.00	0.00	0.00	8.45 ± 0.06	34.43 ± 0.07	0.00	25.25 ± 0.06	7	15.04 ± 0.06	0.00		
															27.80 ± 0.0										
kaurene	48.135	0.00	5.93 ± 0.07	8.59 ± 0.09	6.41 ± 0.08	5.86 ± 0.05	96.50 ± 0.07	6.74 ± 0.07	6.71 ± 0.04	7.11 ± 0.08	6.77 ± 0.06	5.79 ± 0.08	0.00	4	8.42 ± 0.02	5.72 ± 0.07	9.62 ± 0.07	16.57 ± 0.07	15.25 ± 0.07	37.98 ± 0.07	0.00	5.90 ± 0.07	0.00		
		127.14 ± 0.0		131.36 ± 0.0	116.28 ± 0.0	111.86 ± 0.0			124.79 ± 0.0						49.98 ± 0.0						30.16 ± 0.0	155.76 ± 0.0			
nonadecane	44.806	4	142.34 ± 0.05	1	3	5	39.80 ± 0.08	38.18 ± 0.04	5	62.07 ± 0.02	59.05 ± 0.05	68.02 ± 0.09	6.08 ± 0.08	4	75.48 ± 0.08	52.29 ± 0.08	83.27 ± 0.02	96.85 ± 0.02	84.19 ± 0.08	0.00	2	2	0.00		
octadecane	42.093	0.00	0.00	0.00	0.00	25.93 ± 0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.05 ± 0.02	0.00	0.00	0.00		
		2267.35 ± 0.	2264.85 ± 0.0	4182.57 ± 0.	2068.87 ± 0.	1965.03 ± 0.	2682.77 ± 0.	2213.21 ± 0.	2544.96 ± 0.	883.15 ± 0.0	4861.75 ± 0.		468.86 ± 0.	765.52 ± 0.	4603.22 ± 0.	1484.43 ± 0.	3102.32 ± 0.	3870.58 ± 0.	983.03 ± 0.0	3644.31 ± 0.	679.15 ± 0.	3738.46 ± 0.	706.42 ± 0.		
pentadecane	30.888	05	3	01	08	06	07	05	06	3	05	0.00	04	04	08	08	08	08	2	08	02	02	08		
phthalic acid,isobutyl ester	43.789	0.00	0.00	0.00	9.95 ± 0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
														102.72 ± 0.										136.27 ± 0.	
tricyclo[4,2,1,1(2,5)]decan-3-ol	37.847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.48 ± 0.03	26.57 ± 0.04	02	0.00	39.83 ± 0.08	0.00	13.04 ± 0.08	24.29 ± 0.08	0.00	40.44	108.84	20.61	08		

							258.11±0.0															154.36±0.0	
tridecane	22.251	0.00	8.70±0.02	12.35±0.02	9.85±0.02	8.27±0.03	9	20.07±0.04	10.49±0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00
													23.41±0.0	231.97±0.							21.83±0.0		46.81±0.0
undecane	14.721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.03±0.05	13.75±0.04	5	03	21.12±0.03	0.00	9.87±0.07	15.43±0.05	0.00	7.60±0.03	4	11.51±0.06	1
		4353.17±0.		5384.57±0.																			
Z,Z-10,12-Hexadecadienal	37.571	01	0.00	03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Z-5-nonadecene	44.417	39.97±0.01	37.82±0.01	6.79±0.01	43.06±0.01	44.34±0.06	64.51±0.09	14.02±0.03	34.36±0.03	19.24±0.04	14.14±0.04	27.23±0.09	0.00	0.00	0.00	25.47±0.07	5.90±0.05	22.49±0.04	0.00	32.94±0.03	0.00	32.10±0.02	36.6±0.09