Table S1: Paramaters used to calculate the modelled emissions with L+T or T algorithms, specific standardised emissions factors for L+T algorithm (EF_{L+T}), specific standardised emissions factors for T algorithm (ER_T) and experimental coefficient β . Means \pm se, n = 5.

Table S1:

		Spring			Summer			Autumn		
Compounds	Treatment	EF _{L+T}	EFT	β	EF _{L+T}	EFT	β	EF _{L+T}	EFT	β
Isoprene	ND	28.5 ± 4.6			118.0 ± 8.4			6.4 ± 1.1		
	AD	17.8 ± 2.4			$84.8{\pm}9.0$			12.0 ± 2.8		
MACR+MVK+ISOPOOH	ND	0.2 ± 0.03	0.7 ± 0.15	0.5 ± 0.01	0.3 ± 0.02	0.4 ± 0.1	0.5 ± 0.1	0.1 ± 0.01	1.6 ± 0.3	0.7 ± 0.1
	AD	0.1 ± 0.01	0.9 ± 0.28	0.6 ± 0.04	0.2 ± 0.03	0.2 ± 0.04	0.6 ± 0.1	0.1 ± 0.02	5.0 ± 1.6	0.9 ± 0.03
Methanol	ND	1.0 ± 0.2	2.6 ± 0.8	0.3 ± 0.1	0.7 ± 0.04	0.9 ± 0.04	0.3 ± 0.04	0.3 ± 0.1	1.1 ± 0.3	0.4 ± 0.1
	AD	0.8 ± 0.1	2.2 ± 0.2	0.3 ± 0.04	0.5 ± 0.1	0.6 ± 0.04	0.3 ± 0.1	0.4 ± 0.1	1.4 ± 0.4	0.4 ± 0.04
Acetone	ND	0.6 ± 0.2	1.8 ± 0.5	0.4 ± 0.01	0.9 ± 0.1	1.1 ± 0.2	0.4 ± 0.1	0.6 ± 0.2	2.4 ± 0.6	0.4 ± 0.03
	AD	0.5 ± 0.1	2.1 ± 0.4	0.5 ± 0.02	0.4 ± 0.03	0.5 ± 0.1	0.3 ± 0.1	0.8 ± 0.3	4.3 ± 1.8	0.5 ± 0.1
Formaldehyde	ND	0.3 ± 0.1	0.8 ± 0.2	0.4 ± 0.02	0.3 ± 0.03	0.4 ± 0.1	0.4 ± 0.1	0.4 ± 0.1	1.6 ± 0.4	0.4 ± 0.04
	AD	0.2 ± 0.02	1.3 ± 0.2	0.5 ± 0.03	0.2 ± 0.03	0.2 ± 0.1	0.4 ± 0.2	0.6 ± 0.1	2.7 ± 0.7	0.5 ± 0.02
Acetaldehyde	ND	2.4 ± 0.7	9.4 ± 2.7	0.5 ± 0.03	1.7 ± 0.4	1.6 ± 0.3	0.4 ± 0.1	2.5 ± 0.6	34.0 ± 3.1	0.7 ± 0.02
	AD	2.1 ± 0.9	7.9 ± 4.2	0.5 ± 0.1	0.9 ± 0.1	0.9 ± 0.1	0.5 ± 0.1	2.5 ± 0.7	37.8 ± 4.3	0.7 ± 0.1

Figure S1: Diurnal pattern of measured MACR+MVK+ISOPOOH emissions rates (μ gC.g_{DM}⁻¹.h⁻¹). Points (means \pm SE, n=5) represent measured emissions, yellow line is ER_{L+T} and dotted line is ER_T according to treatment and season. R² and slope (sl) of correlations between measured and modelled emissions were presented in yellow frame for L+T and in white frame for T.

Figure S2: Diurnal pattern of measured acetone emissions rates (μ gC.g_{DM}⁻¹.h⁻¹). Points (means ± SE, n=5) represent measured emissions, yellow line is ER_{L+T} and dotted line is ER_T according to treatment and season. R² and slope (sl) of correlations between measured and modelled emissions were presented in yellow frame for L+T and in white frame for T.

Figure S3: Diurnal pattern of measured formaldehyde emissions rate ($\mu gC.g_{DM}^{-1}.h^{-1}$). Points (means \pm SE, n=5) represent measured emissions, yellow line is ER_{L+T} and dotted line is ER_T according to treatment and seasons. R² and slope (sl) of correlations between measured and modelled emissions were presented in yellow frame for L+T and in white frame for T.

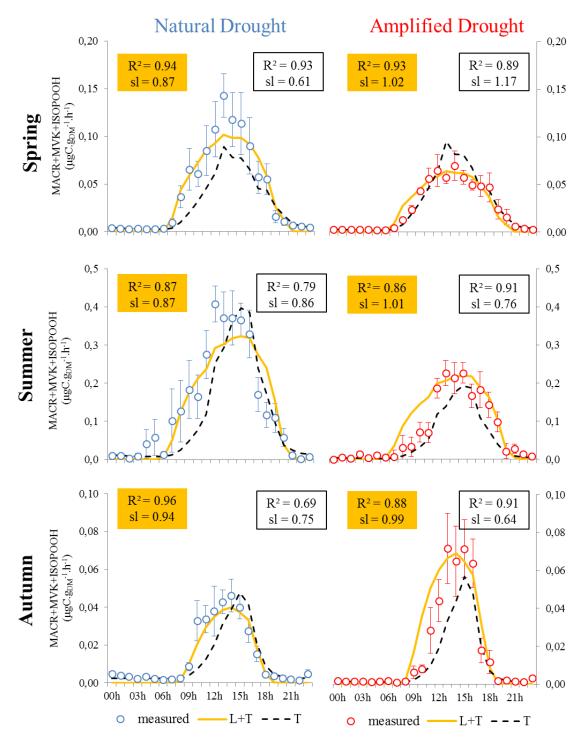


Figure S1:

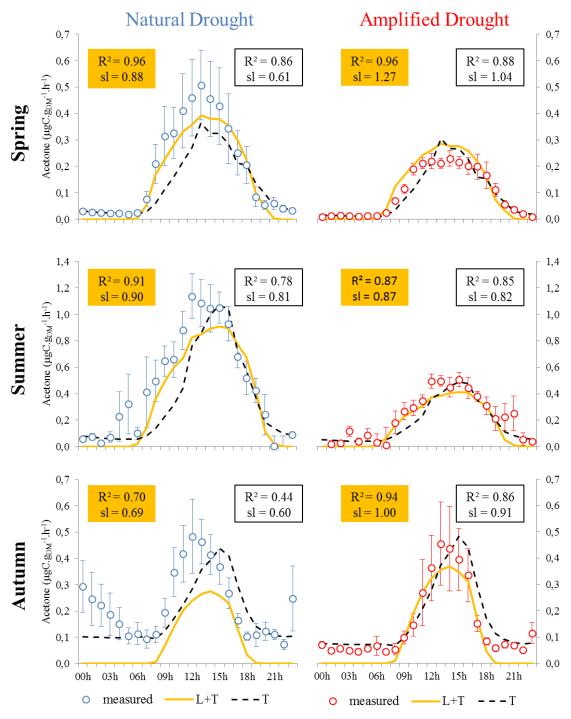


Figure S2:

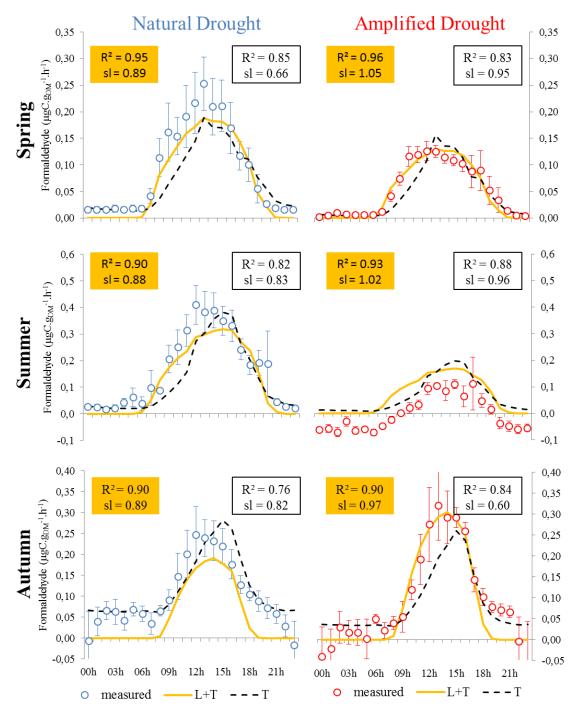


Figure S3: