

Species	This study				References				
	White cell FTIR and SIFT-MS analysis of grab samples – prescribed fires in NSW				Open-path FTIR – average values		Lawson et al. (2015)		Akagi et al. (2011)
	MM	Ref.	ER	EF	ER	EF	ER	EF	EF
Ammonia	17	CO			0.023 (0.007)	1.6 (0.6)			0.8 (0.4)
Acetylene	26	CO <sub>2</sub>	0.00037 ± 0.00008	0.35 ± 0.09					0.26 (0.04)
Hydrogen cyanide	27	CO	0.0063 ± 0.0007	0.7 ± 0.2			0.0057	0.7	0.7 (0.2)
Ethene	28	CO	0.009 ± 0.001	1.1 ± 0.2	0.011 (0.003)	1.2 (0.2)			1.2 (0.2)
Ethane	30	CO	0.0038 ± 0.0003	0.48 ± 0.09	0.004 (0.001)	0.5 (0.2)	0.0032	0.41	0.6 (0.2)
Formaldehyde	30	CO	0.018 ± 0.003	2.3 ± 0.5		1.7 (0.4)	0.011	1.6	2.1 (0.4)
Methanol	32	CO	0.022 ± 0.002	3.0 ± 0.5	0.016 (0.005)	2 (1)	0.014	2.1	1.7 (0.5)
Acetonitrile	41	CO	0.0038 ± 0.0005	0.7 ± 0.1			0.0013	0.25	0.12 (0.05)
Acetaldehyde	44	CO	0.007 ± 0.001	1.3 ± 0.3			0.0044	0.92	0.8 (0.2)
Ethanol	46	CO	0.00021	0.04 ± 0.01					0.10 (0.05)
Formic acid	46	CO			0.003 (0.001)	0.45 (0.16)			0.29 (0.09)
Butadiene	54	CO <sub>2</sub>	0.000074 ± 0.000009	0.23 ± 0.04					0.19 (0.05)
Sum of acetone and propanal	58	CO	0.0034 ± 0.0005	0.8 ± 0.2			0.002	0.54	0.54 (0.15) (acetone) 0.11 (0.05) (propanal) 2.1 (0.7)
Acetic acid	60	CO			0.020 (0.009)	4.5 (1.6)			
Pyrrrole	67	CO	0.0006 ± 0.0003	0.16 ± 0.08					0.012 (0.009) (pyrrrole) 0.047 (0.026) (MM67)
Sum of furan and isoprene	68	CO	0.0019 ± 0.0003	0.5 ± 0.1			0.0053	1.7	0.3 (0.1) (furan) 0.10(0.004) (isoprene) 0.18 (0.08) (MM68)
Sum of MACR, MVK and 2-butenal	70	CO	0.0035 ± 0.0009	1.0 ± 0.3			0.0012	0.38	0.05 (0.02) (methacrolein) 0.16 (0.04) (methyl vinyl ketone) 0.2 (0.1) (2-butenal) 0.3 (0.2) (MM70)
Butanone	72	CO	0.00082 ± 0.00007	0.25 ± 0.05			0.001	0.35	0.13 (0.04) (butanone) 0.09 (0.04) (MM72)
Benzene	78	CO <sub>2</sub>	0.00014 ± 0.00002	0.39 ± 0.07				0.69	0.3 (0.1)
Toluene	92	CO	0.0006 ± 0.0001	0.23 ± 0.05			0.00069	0.30	0.19 (0.05)
Sum of C <sub>8</sub> H <sub>10</sub> species	106	CO	0.00025 ± 0.00005	0.11 ± 0.03			0.00053	0.26	0.17 (0.14) (C <sub>8</sub> aromatics) 0.2 (0.1) (benzaldehyde)
Monoterpenes	136	CO	0.0009 ± 0.0002	0.5 ± 0.1			0.00018	0.11	0.9 (0.3)