

(a) Reference Standard	y_{CO_2} ppm	$\delta^{13}\text{C}\text{‰}$	$\delta^{18}\text{O}\text{‰}$	$^{13}_r$	$^{18}_r$	R_{sum}	y_{626} ppm	y_{636} ppm	y_{628} ppm
Calibration tank data							Reference mole fractions		
CB11138	396.74	-8.38	0.30	0.011087	0.002089	1.016112	390.45	4.3287	1.6313
CB11483	452.06	-8.19	-2.11	0.011089	0.002084	1.016103	444.90	4.9333	1.8543
CA06845	416.06	-10.69	-2.71	0.011061	0.002083	1.016072	409.48	4.5291	1.7056
CB09950	392.91	-8.38	-0.20	0.011087	0.002088	1.016110	386.68	4.2870	1.6147
							Measured mole fractions		
CB11138							426.50	4.9011	1.8942
CB11483							486.46	5.5937	2.1768
CA06845							447.49	5.1310	1.9891
CB09950							422.33	4.8533	1.8731
							Calibration coefficients		
						Slope a	1.10146	1.14563	1.26747
						Intercept b	-3.56	-0.0579	-0.1733
(b) Reference standard	y_{CO_2} ppm	$\delta^{13}\text{C}\text{‰}$	$\delta^{18}\text{O}\text{‰}$	$^{13}_r$	$^{18}_r$	X_{sum}	y'_{626} ppm	y'_{636} ppm	y'_{628} ppm
Calibration tank data							Reference normalised mole fractions		
CB11138	396.74	-8.38	0.30	0.011087	0.002089	0.999909	396.78	393.45	396.90
CB11483	452.06	-8.19	-2.11	0.011089	0.002084	0.999900	452.11	448.40	451.15
CA06845	416.06	-10.69	-2.71	0.011061	0.002083	0.999869	416.11	411.67	414.99
CB09950	392.91	-8.38	-0.20	0.011087	0.002088	0.999906	392.95	389.66	392.87
							Measured normalised mole fractions		
CB11138							433.41	445.48	460.87
CB11483							494.34	508.43	529.62
CA06845							454.74	466.38	483.96
CB09950							429.17	441.13	455.74
							Calibration coefficients		
						Slope a	1.10146	1.14563	1.26748
						Intercept b	-3.62	-5.27	-42.16