Figure S1. Prepared cavities on experimental teeth (a). Silicon mounting template for an experimental group of teeth (b). An experimental group of teeth embedded in autopolymerising acrylic resin (c). Incipient dentin decay (d).

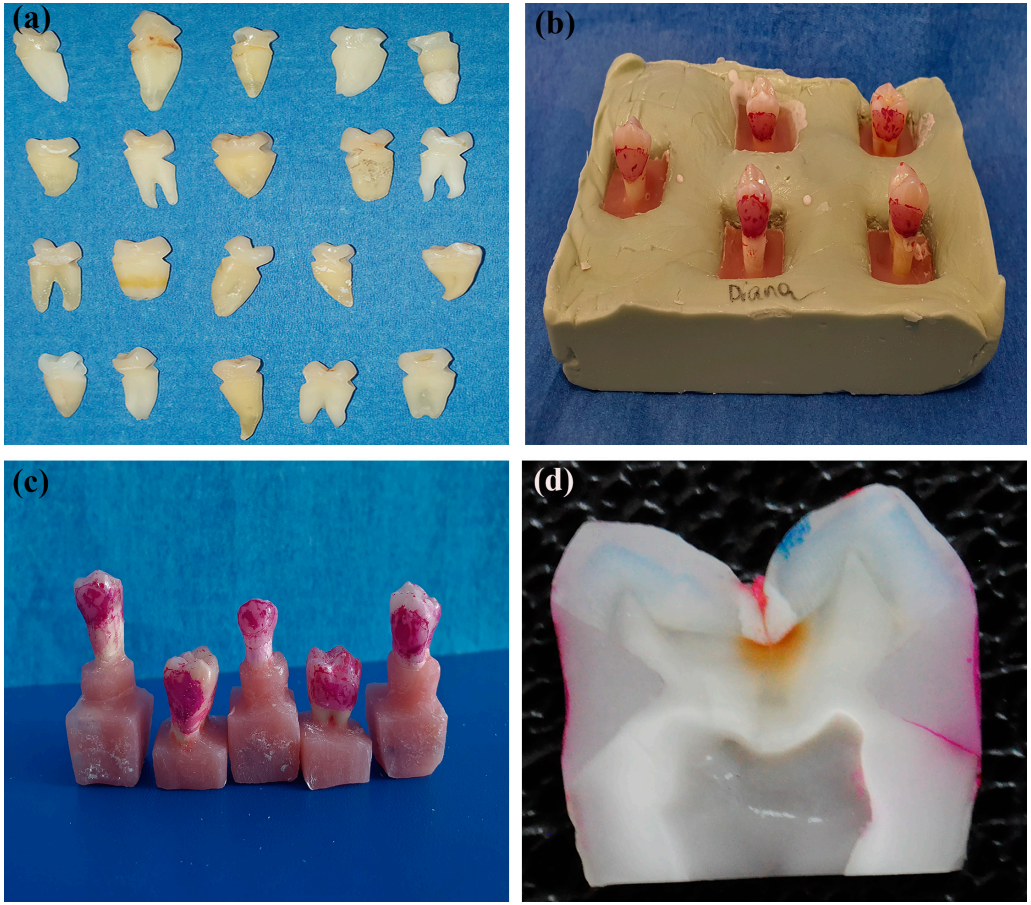

Table S1. Energy-dispersive X-ray analysis of elemental composition in the tested composite resin materials [percent weight (%wt)].

Element	B (average ±SD)			BF (average ±SD)			D (average ±SD)			DF (average ±SD)		
	material	enamel	dentine	material	enamel	dentine	material	enamel	dentine	material	enamel	dentine
0	35,2±0,8	38,95±4,83	40,76±1,27	28,82±1,38	38,4±1.34	38,22±0,87	42,94±3.11	40,68±2.76	39,18±2.67	32,42±5,86	38,42±2.37	38,34±1,89
C	39,38±2,5	14±2,91	22,34±2,99	50,76±2,14	20,5±3.2	29,22±3,41	27.52±2.67	14,06±2.82	26,2±6.52	42,8±3.59	16,76±5.11	26,16±2.8
Ca	0,16±0,08	30,15±1.44	24.94±1.25	0,12±0.08	28,18±1.65	22,2±4.26	0	30,72±1.39	23,56±3.35	0	30,7±4.35	24.08±1.45
P	0	14,05±0.6	11,76±0.75	0	12,92±0.61	10.4±0.74	0	14.52±0.58	11,06±1.47	0	14,12±1.61	11,34±0.55
Si	9,2±1,09	0	0	4.9±0.1	0	0	15,68±1.10	0	0	11,66±2.04	0	0
Sr	8,92±0,58	0	0	8,56±0.61	0	0	0	0	0	0	0	0
Al	5,14±0,26	0	0	4,36±0.23	0	0	2.768±0.14	0	0	1,98±0.27	0	0
Mg	0,05±0,07	0.1±0.17	0.36±0.32	0	0	0	0	0	0	0	0	0
Ba	0,325±0,12	0	0	0	0	0	11.14±1.27	0	0	11,14±3,15	0	0
F	1,975±0,51	0	0	2.52±0.31	0	0	0	0	0	0	0	0
Na	0,125±0,25	0	0	0	0	0	0	0	0	0	0	0

B=Beautiful II LS®; BF=Beautiful Flow Plus®; D=Dynamic Plus®; DF=Dynamic Flow®; SD=standard deviation