

FIG. 1
A

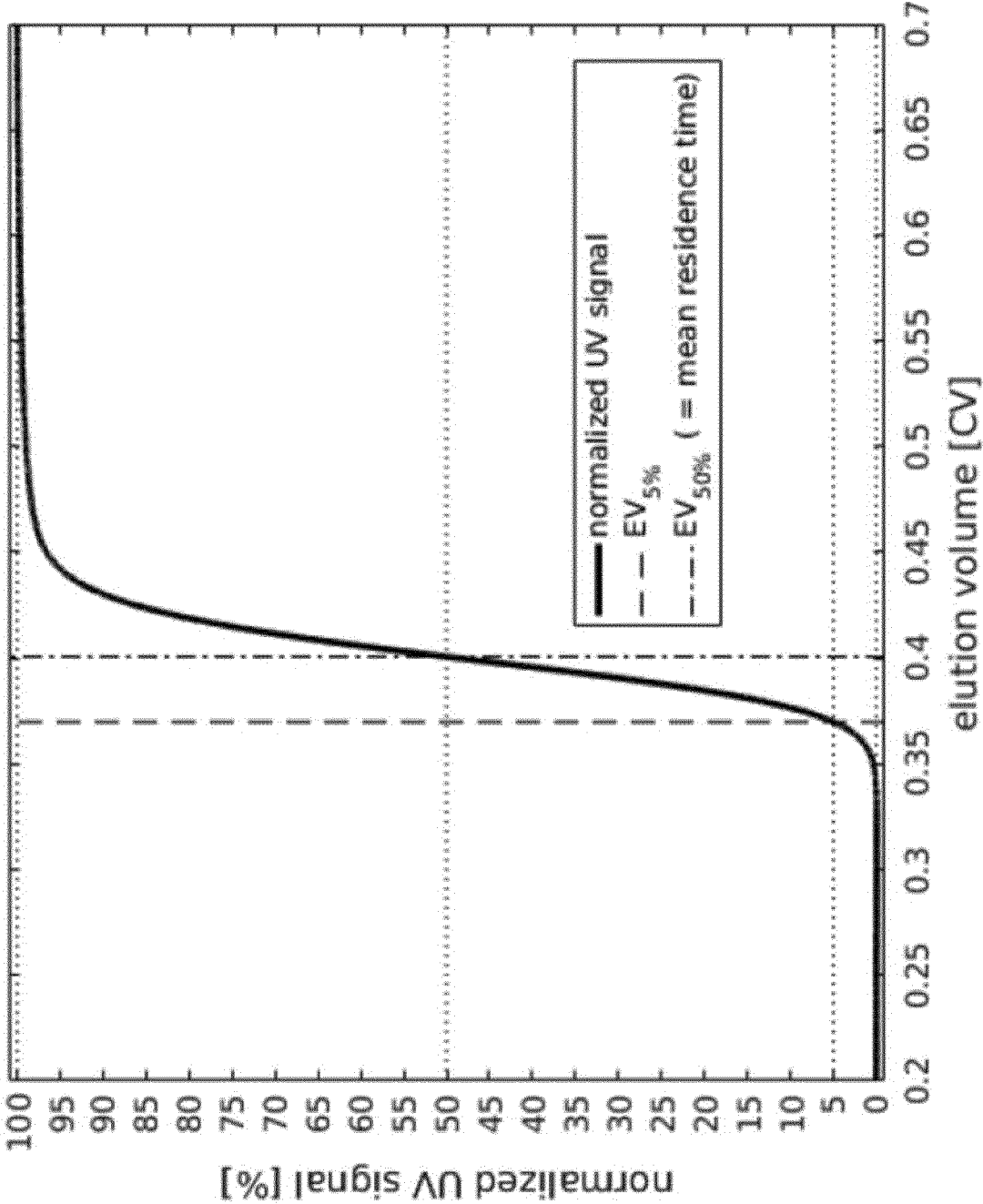


FIG. 1, continued
B

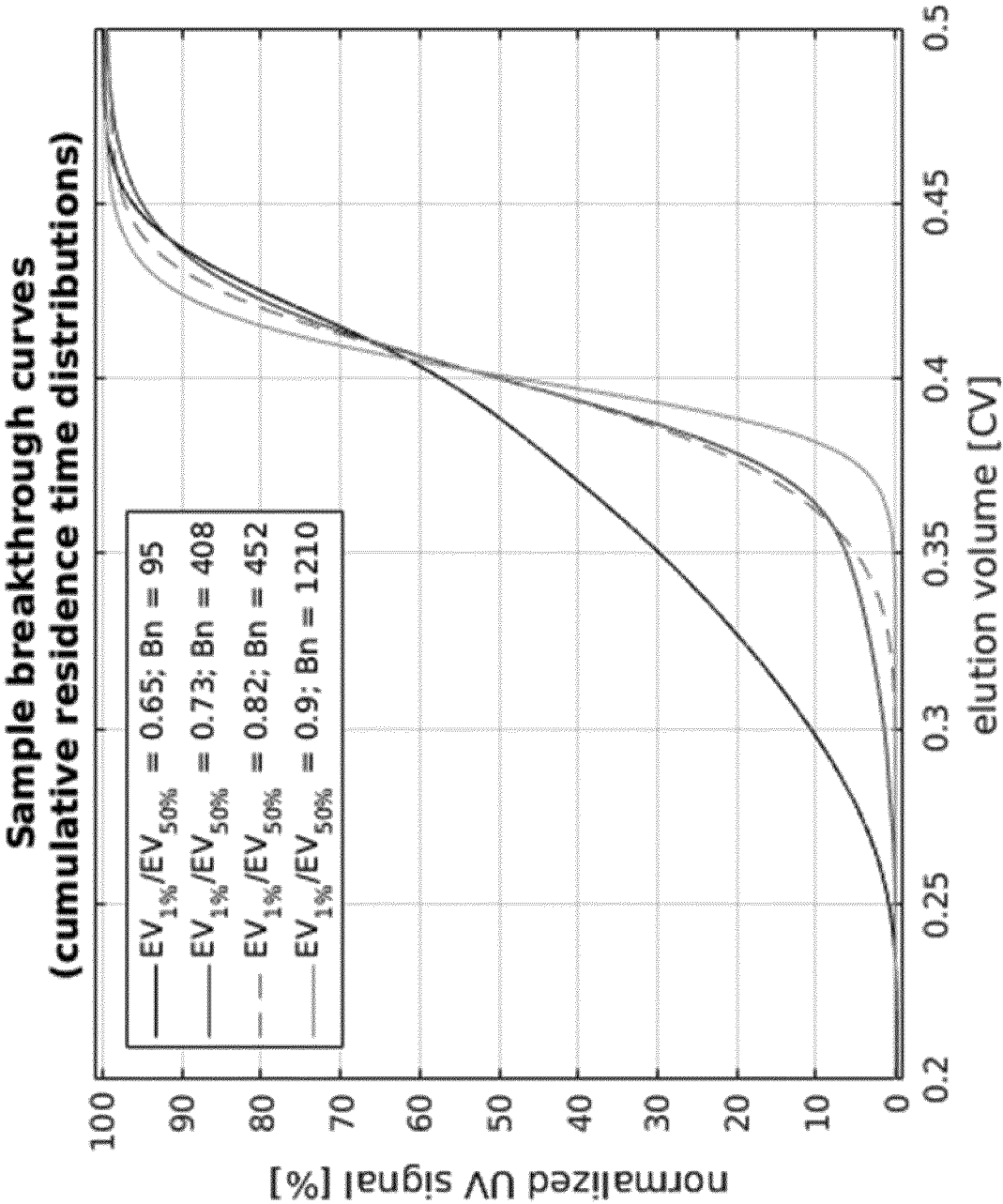


FIG. 2

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Column number	Column height [cm]	Column diameter [mm]	Linear velocity [cm/h]	Beads diameter [mm]	Beads diameter range [mm]	EV _{5%} / EV _{50%} Acetone	EV _{5%} / EV _{50%} SD	Bodenstein number Acetone	Bodenstein number SD
2	29.3	10.00	50.00	0.375	0.250	0.896	0.899	589	634
2	29.3	10.00	100.00	0.375	0.250	0.887	0.888	516	543
2	29.3	10.00	200.00	0.375	0.250	0.880	0.879	477	477
2	29.3	10.00	300.00	0.375	0.250	0.875	0.875	452	446
4	28.8	10.00	50.00	0.350	0.100	0.915	0.912	793	726
4	28.8	10.00	100.00	0.350	0.100	0.906	0.903	671	652
4	28.8	10.00	200.00	0.350	0.100	0.897	0.895	578	565
4	28.8	10.00	300.00	0.350	0.100	0.893	0.890	540	527
15	10.9	16.00	50.00	1.150	0.300	0.815	0.830	149	166
15	10.9	16.00	100.00	1.150	0.300	0.805	0.814	129	139
15	10.9	16.00	200.00	1.150	0.300	0.795	0.801	114	121
15	10.9	16.00	300.00	1.150	0.300	0.794	0.797	110	114
5	28.5	10.00	50.00	0.150	0.100	0.933	0.896	965	647
5	28.5	10.00	100.00	0.150	0.100	0.930	0.927	889	824
5	28.5	10.00	200.00	0.150	0.100	0.926	0.923	799	752
5	28.5	10.00	300.00	0.150	0.100	0.924	0.921	765	719
6	28.5	10.00	50.00	1.150	0.300	0.838	0.846	167	203
6	28.5	10.00	100.00	1.150	0.300	0.797	0.828	84	161
6	28.5	10.00	200.00	1.150	0.300	0.816	0.813	140	136
6	28.5	10.00	300.00	1.150	0.300	0.799	0.806	119	127
7	10.2	10.00	50.00	1.150	0.300	0.779	0.796	97	108
7	10.2	10.00	100.00	1.150	0.300	0.773	0.776	92	91
7	10.2	10.00	200.00	1.150	0.300	0.750	0.759	75	80
7	10.2	10.00	300.00	1.150	0.300	0.740	0.751	71	75
14	11.6	16.00	50.00	0.350	0.100	0.906	0.903	523	492
14	11.6	16.00	100.00	0.350	0.100	0.898	0.898	428	448
14	11.6	16.00	200.00	0.350	0.100	0.892	0.891	395	399
14	11.6	16.00	300.00	0.350	0.100	0.889	0.888	373	376
10	10.4	5.00	50.00	0.250	0.100	0.861	0.852	192	175
10	10.4	5.00	100.00	0.250	0.100	0.843	0.837	151	141
10	10.4	5.00	200.00	0.250	0.100	0.834	0.827	147	132
10	10.4	5.00	300.00	0.250	0.100	0.827	0.825	141	137
11	10.5	5.00	50.00	0.375	0.250	0.883	0.880	265	257
11	10.5	5.00	100.00	0.375	0.250	0.868	0.865	207	199
11	10.5	5.00	200.00	0.375	0.250	0.860	0.856	205	189
11	10.5	5.00	300.00	0.375	0.250	0.853	0.853	189	186
12	21.3	5.00	50.00	0.375	0.250	0.901	0.898	410	390
12	21.3	5.00	100.00	0.375	0.250	0.888	0.881	324	245
12	21.3	5.00	200.00	0.375	0.250	0.877	0.874	297	277
12	21.3	5.00	300.00	0.375	0.250	0.871	0.869	277	267
13	10.3	16.00	50.00	0.375	0.250	0.893	0.889	377	351
13	10.3	16.00	100.00	0.375	0.250	0.886	0.883	339	315
13	10.3	16.00	300.00	0.375	0.250	0.877	0.872	292	272
2	29.3	10	50	0.375	0.25	/	0.899	/	634
2	29.3	10	100	0.375	0.25	/	0.888	/	543
2	29.3	10	200	0.375	0.25	/	0.879	/	477

FIG. 3

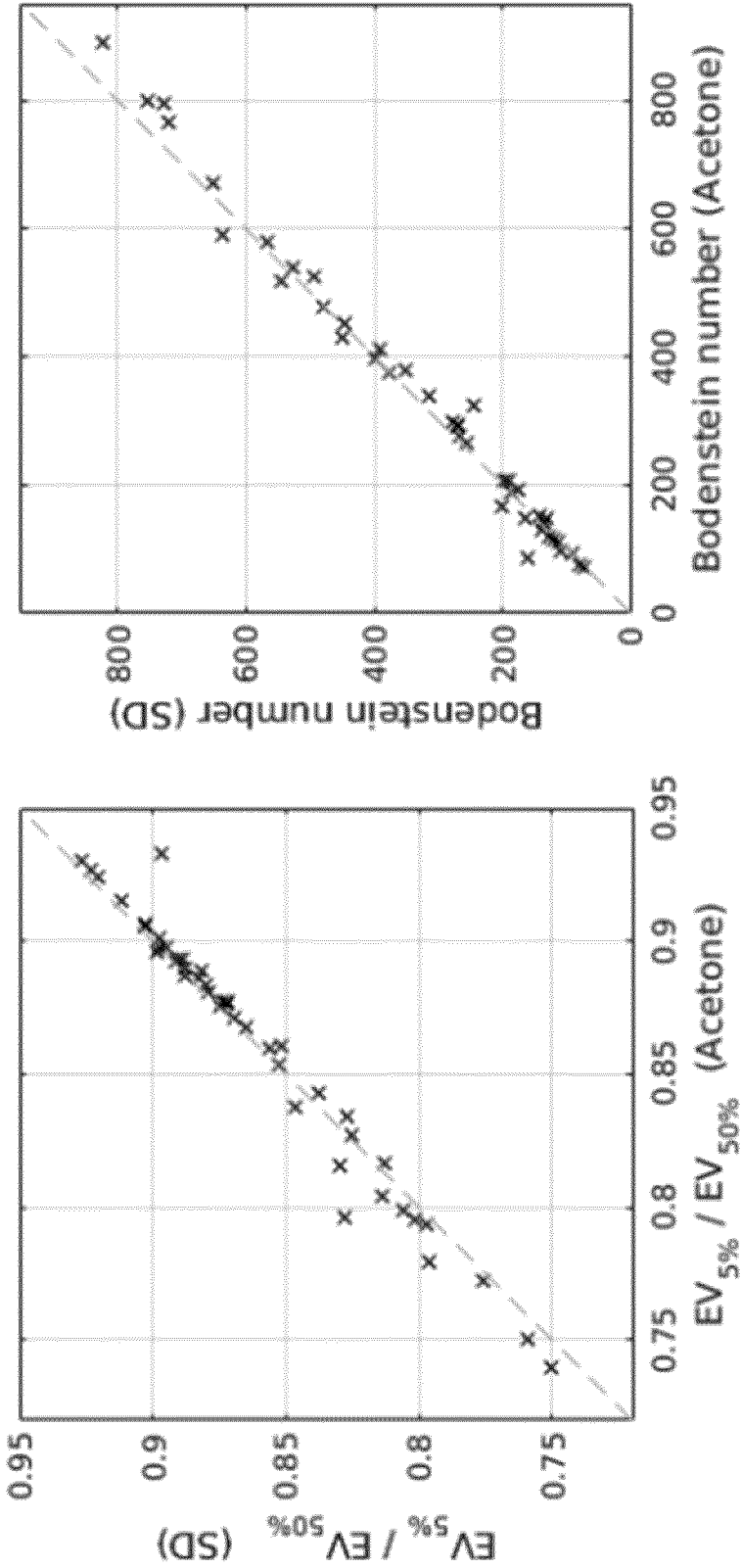


FIG. 4

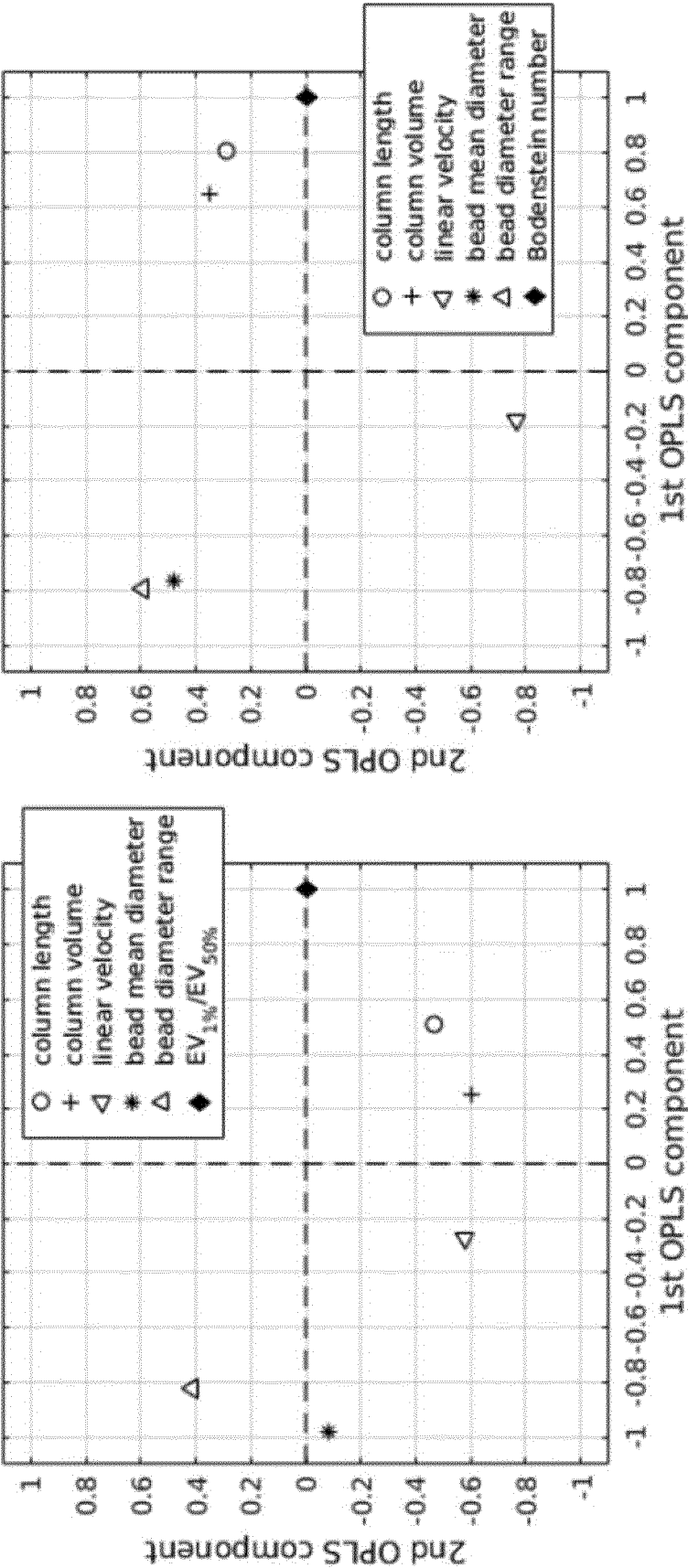


FIG. 5

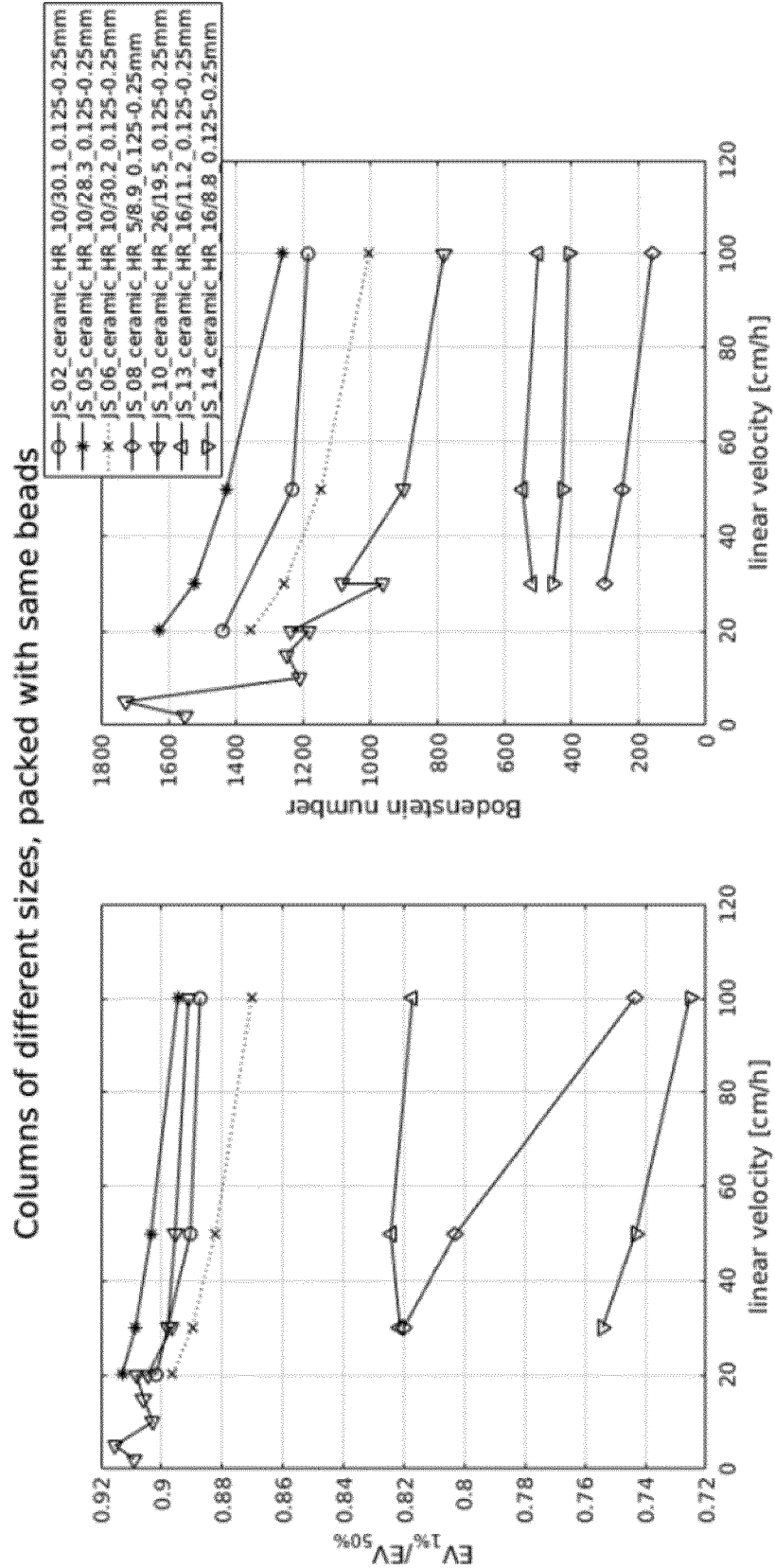


FIG. 6

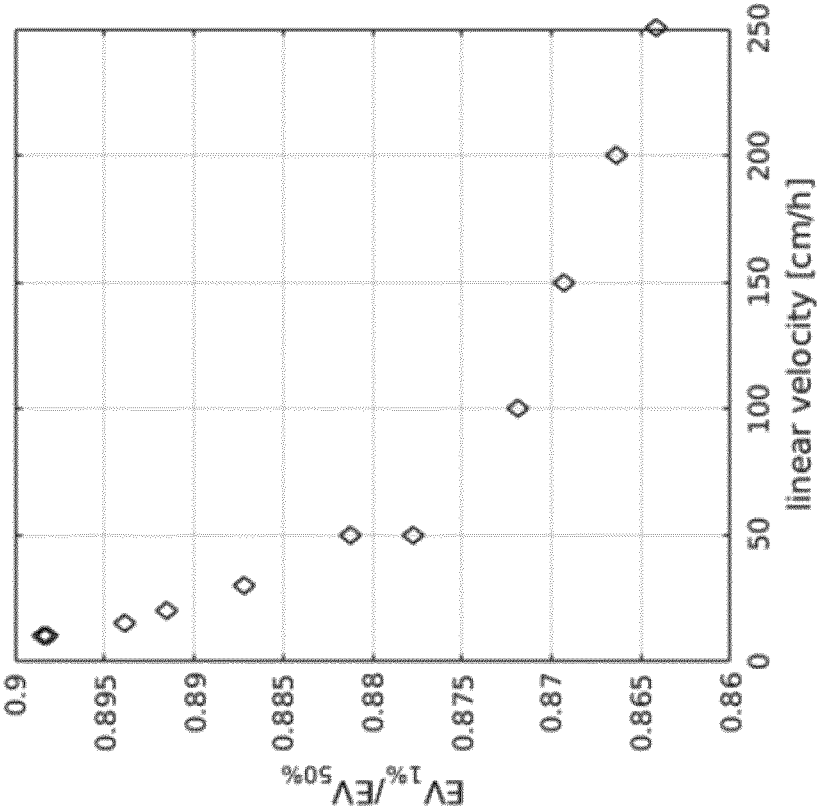


FIG. 7

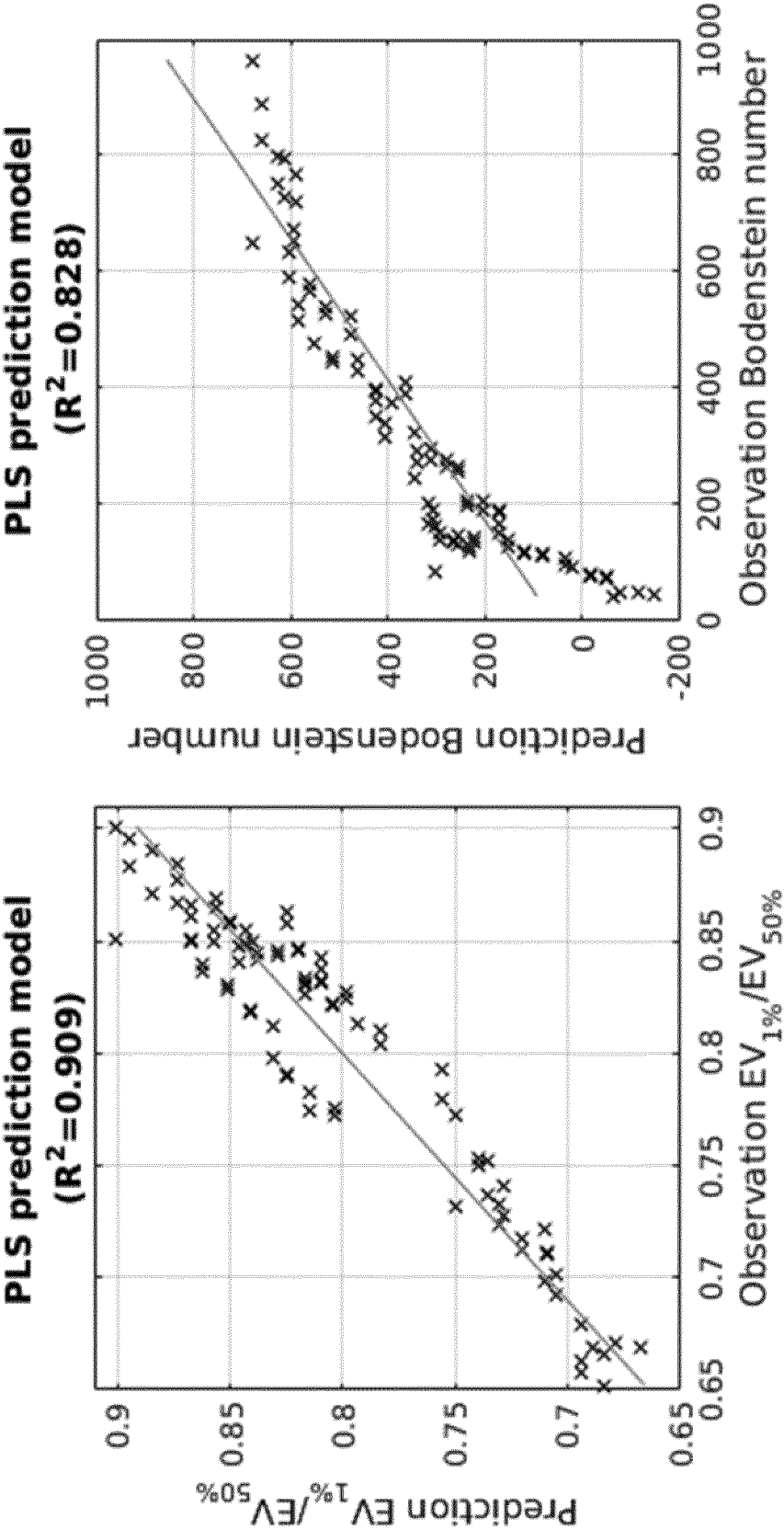


FIG. 8

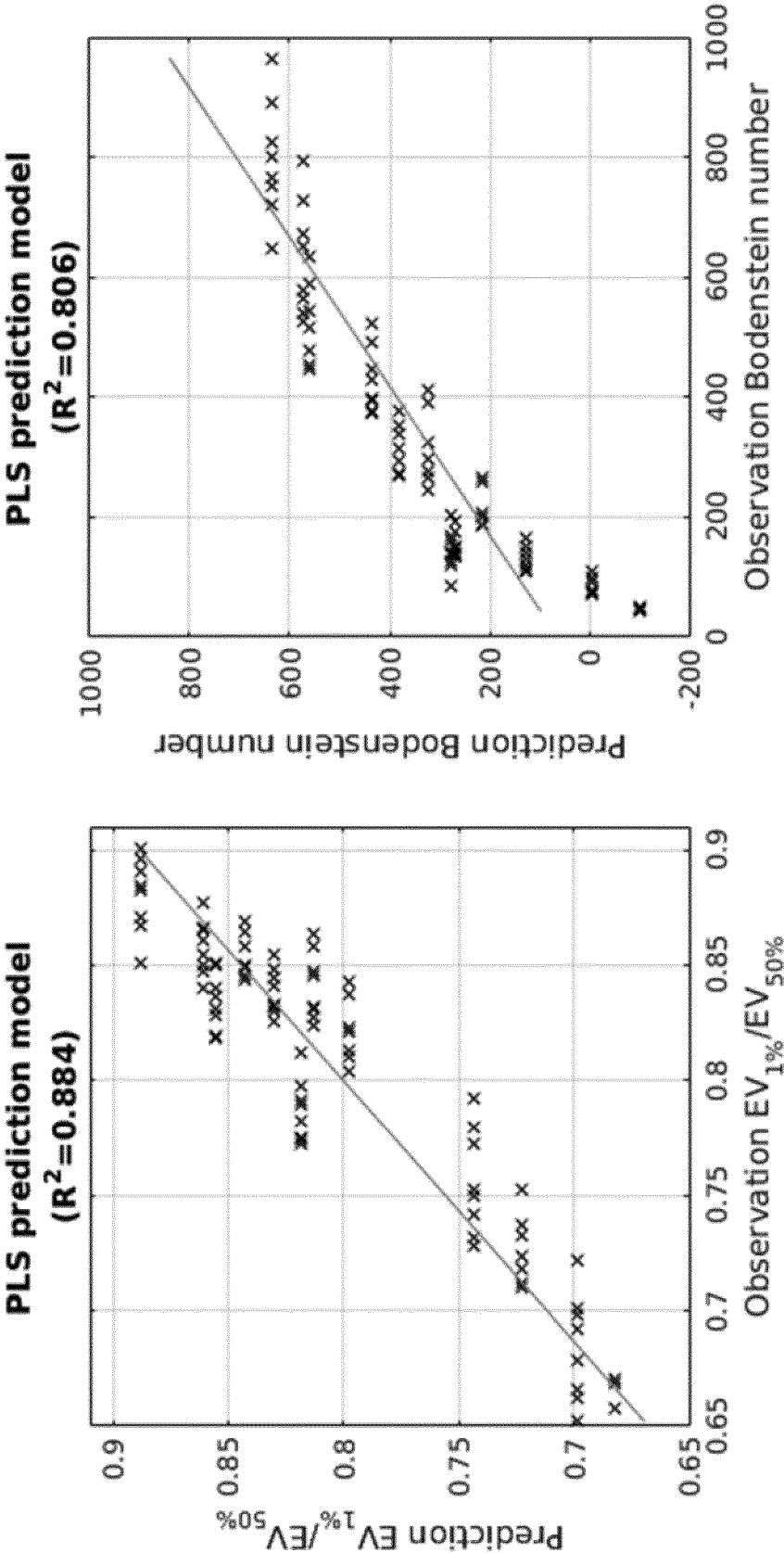


FIG. 9

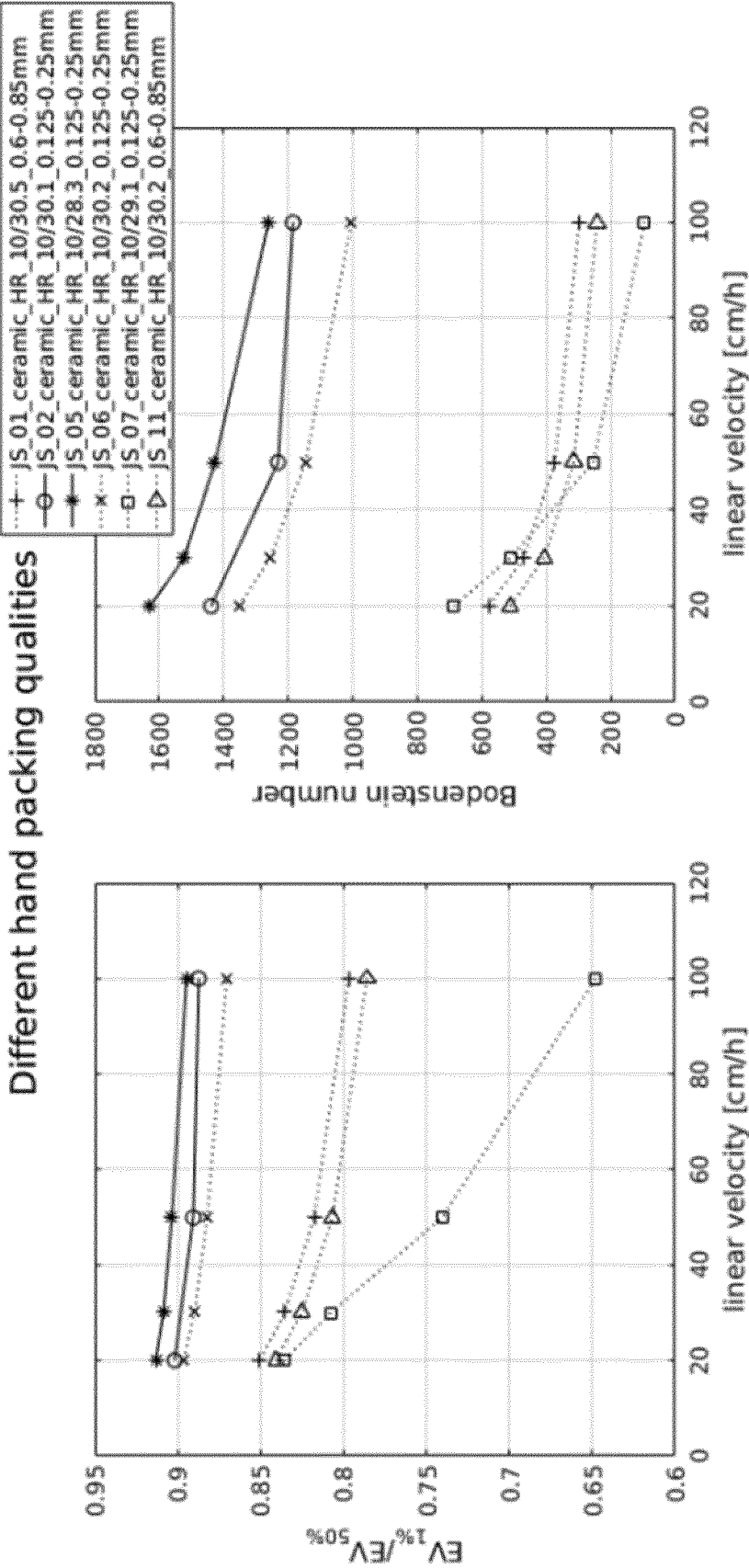


FIG. 10

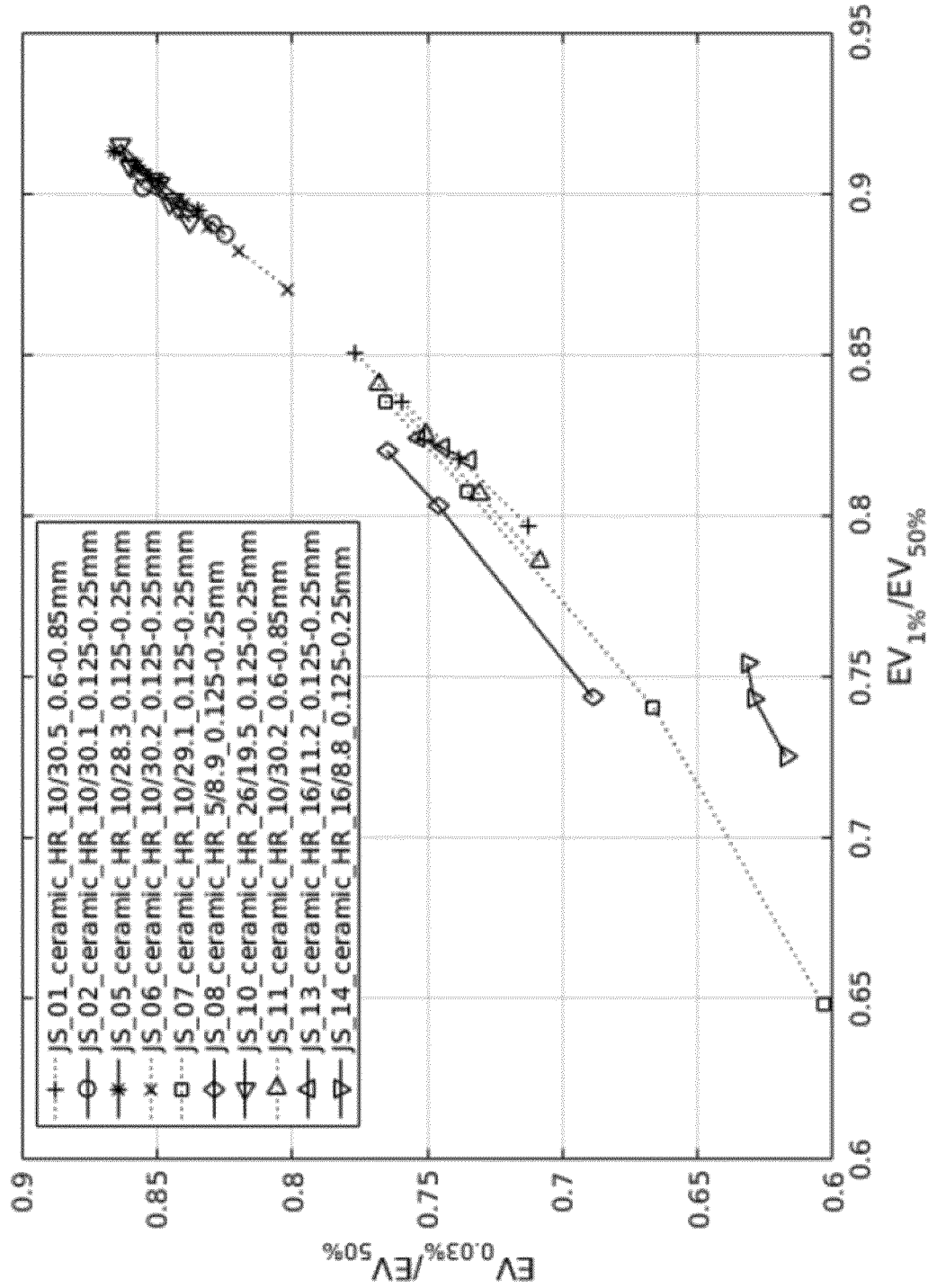


FIG. 11

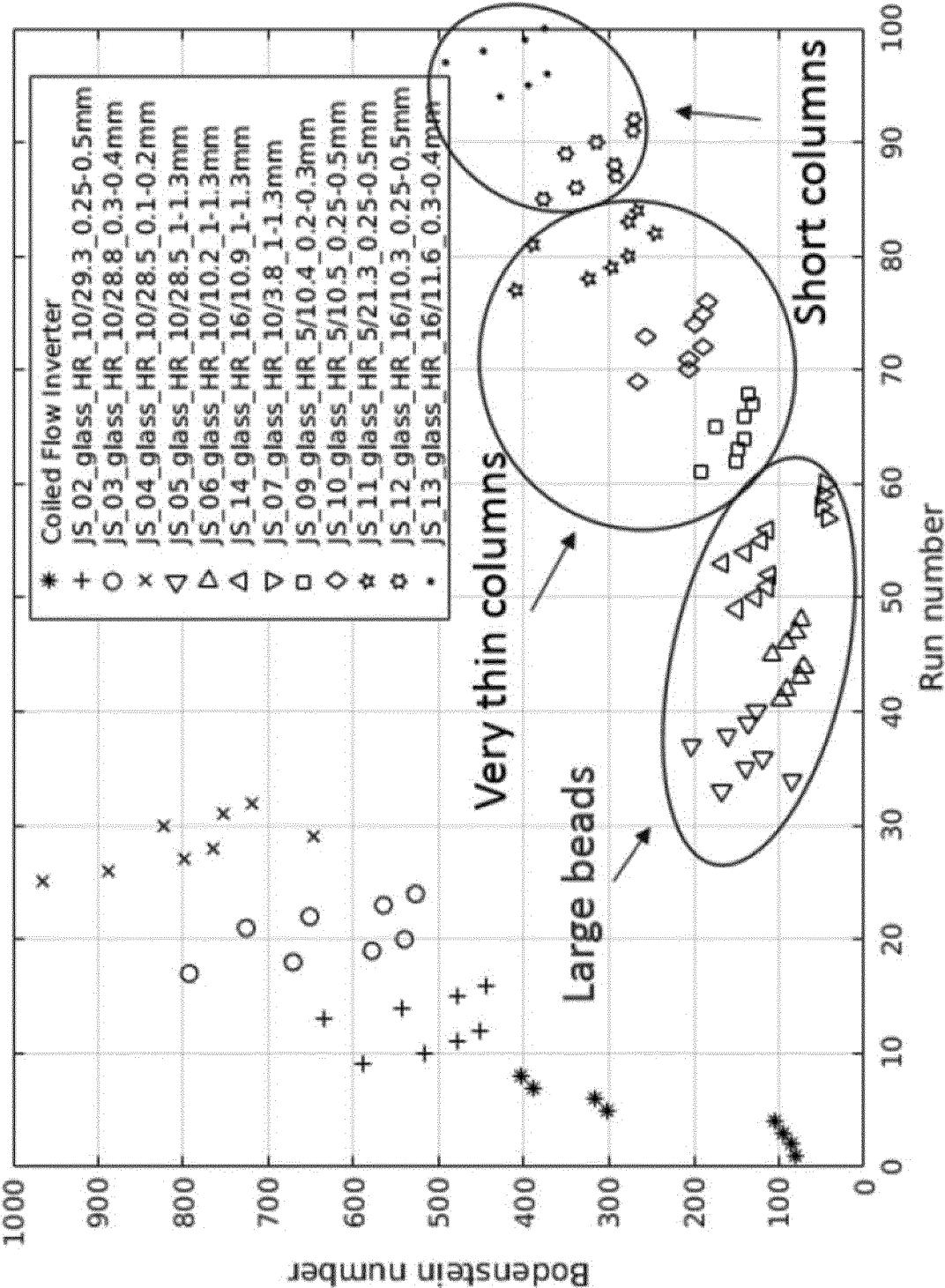


FIG. 12

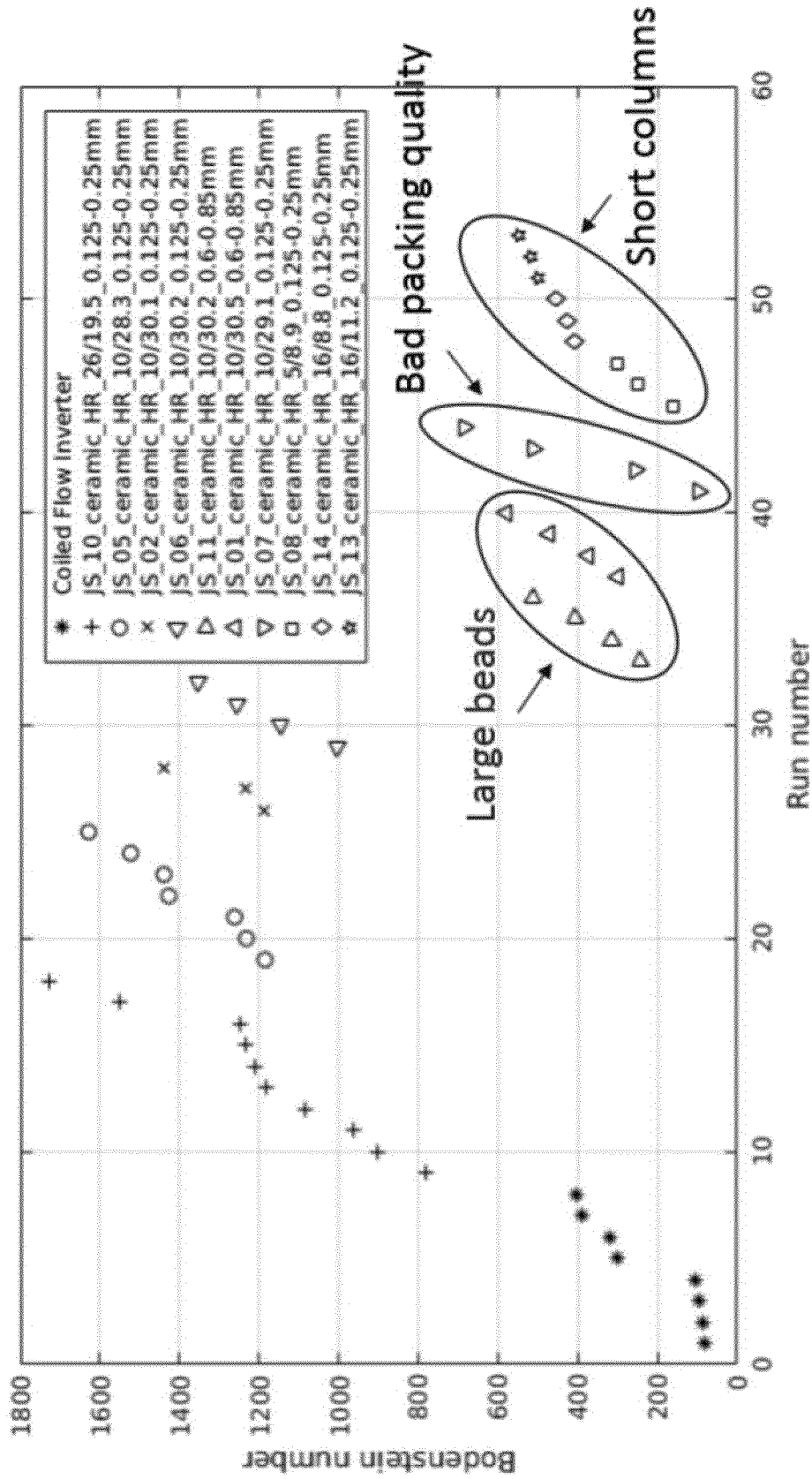


FIG. 13

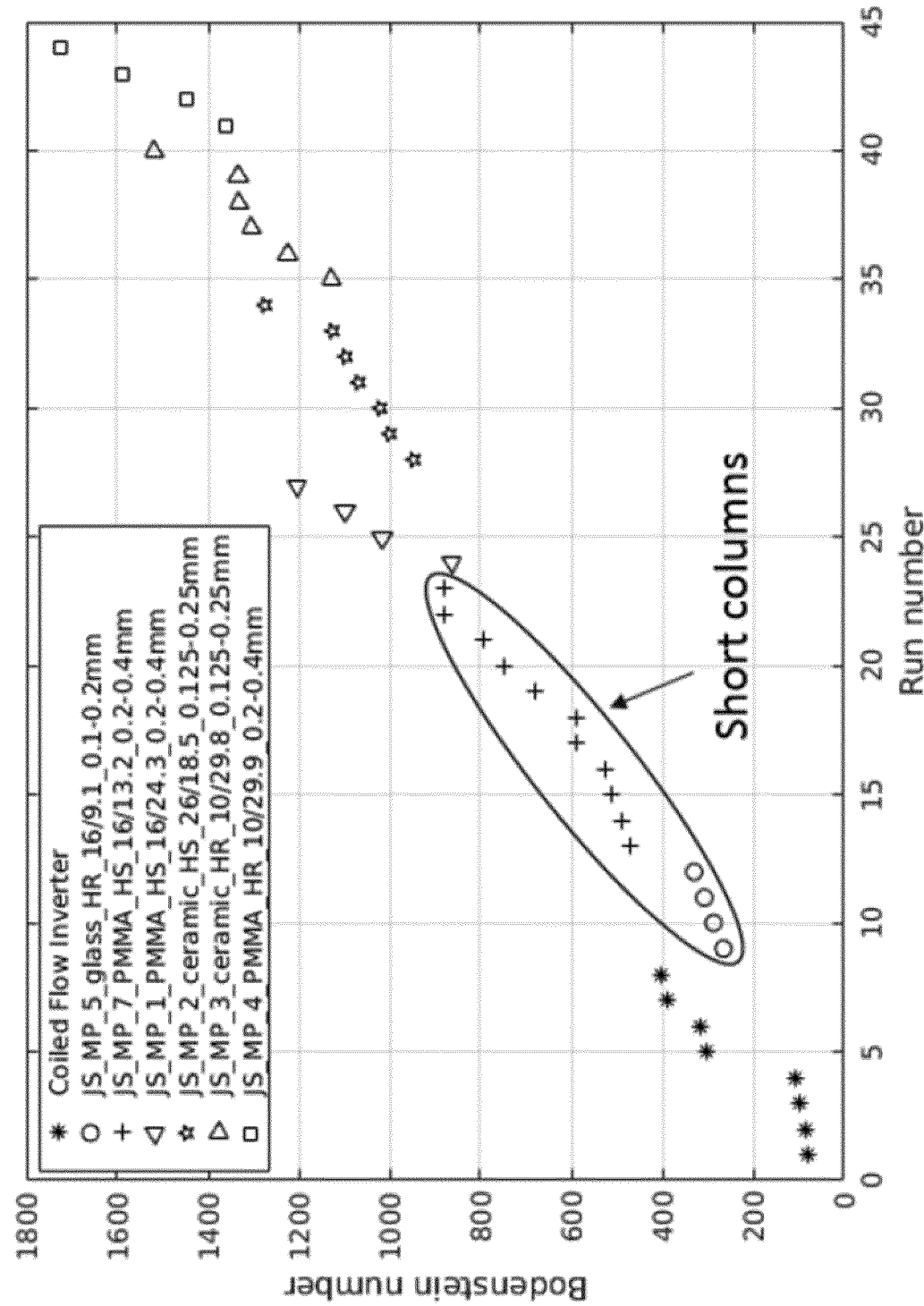


FIG. 14

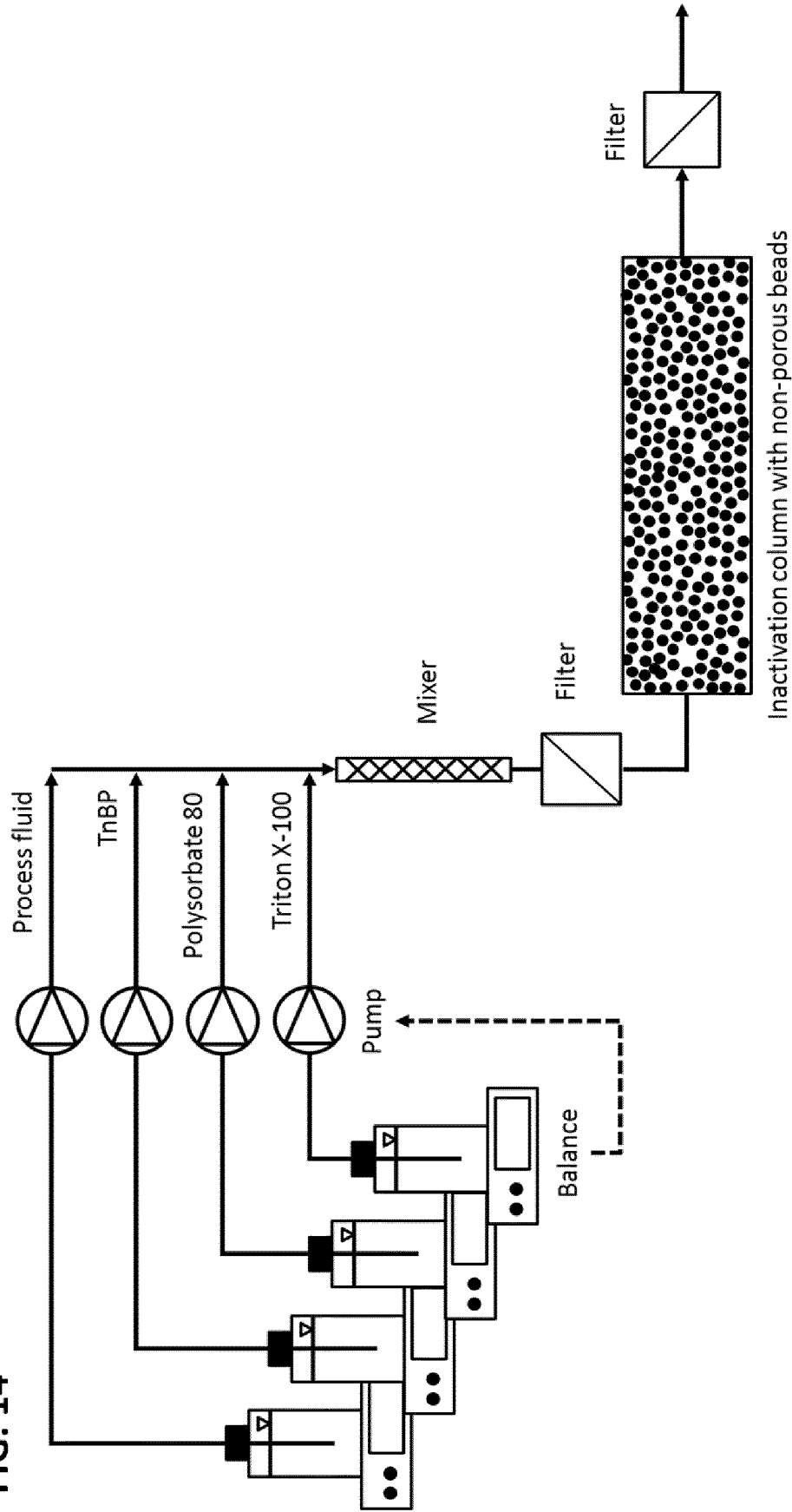


FIG. 15

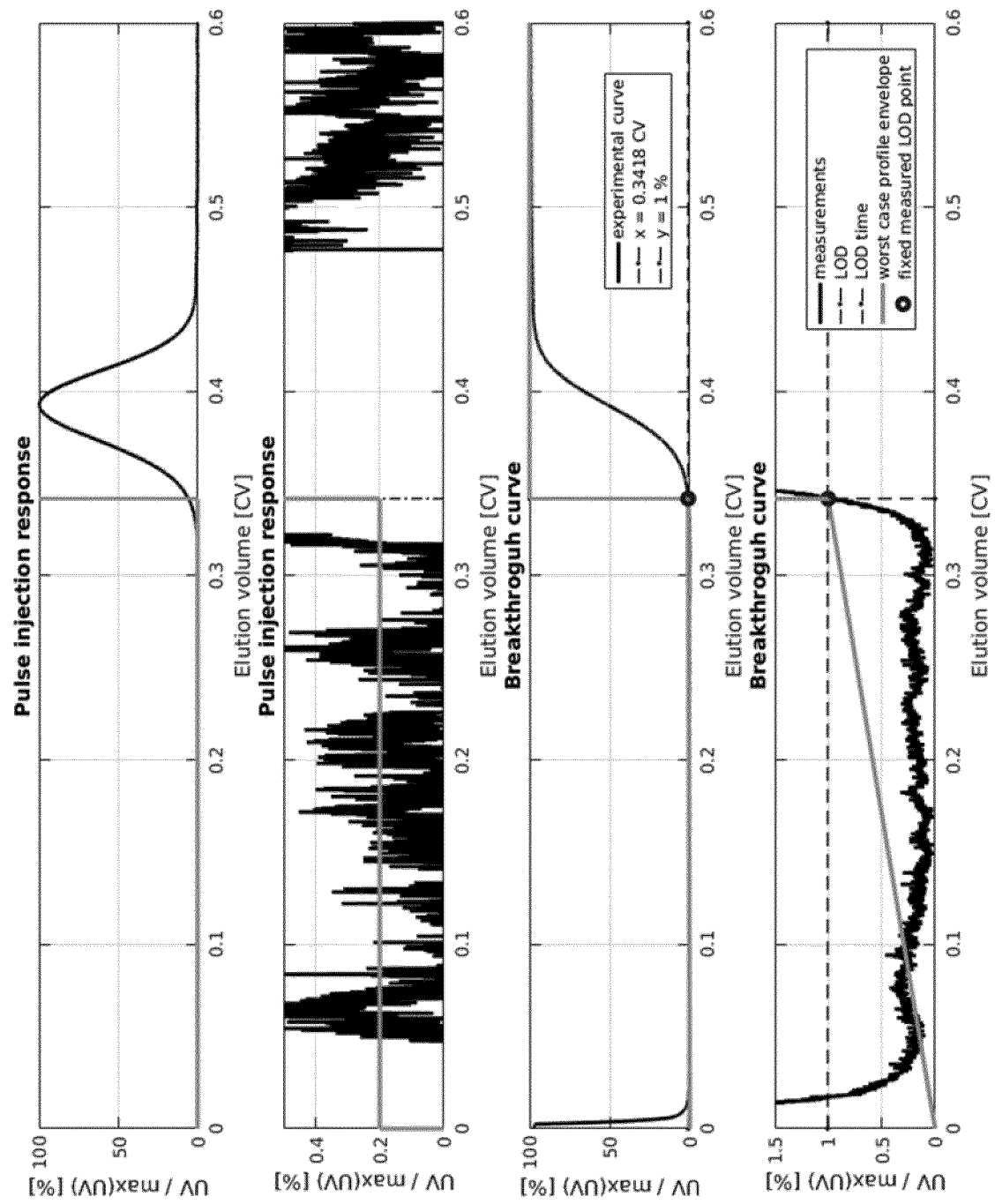


FIG. 16
A

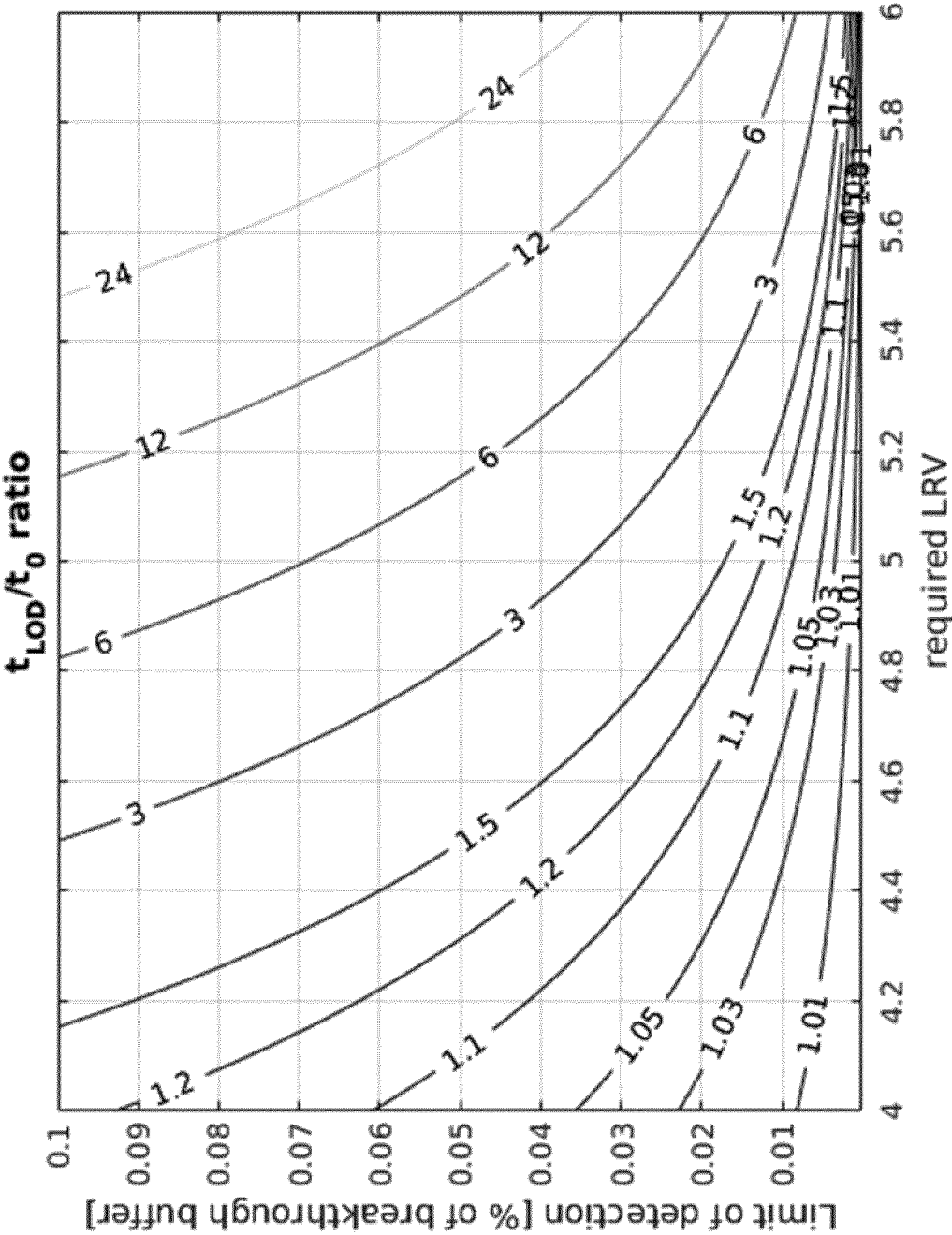
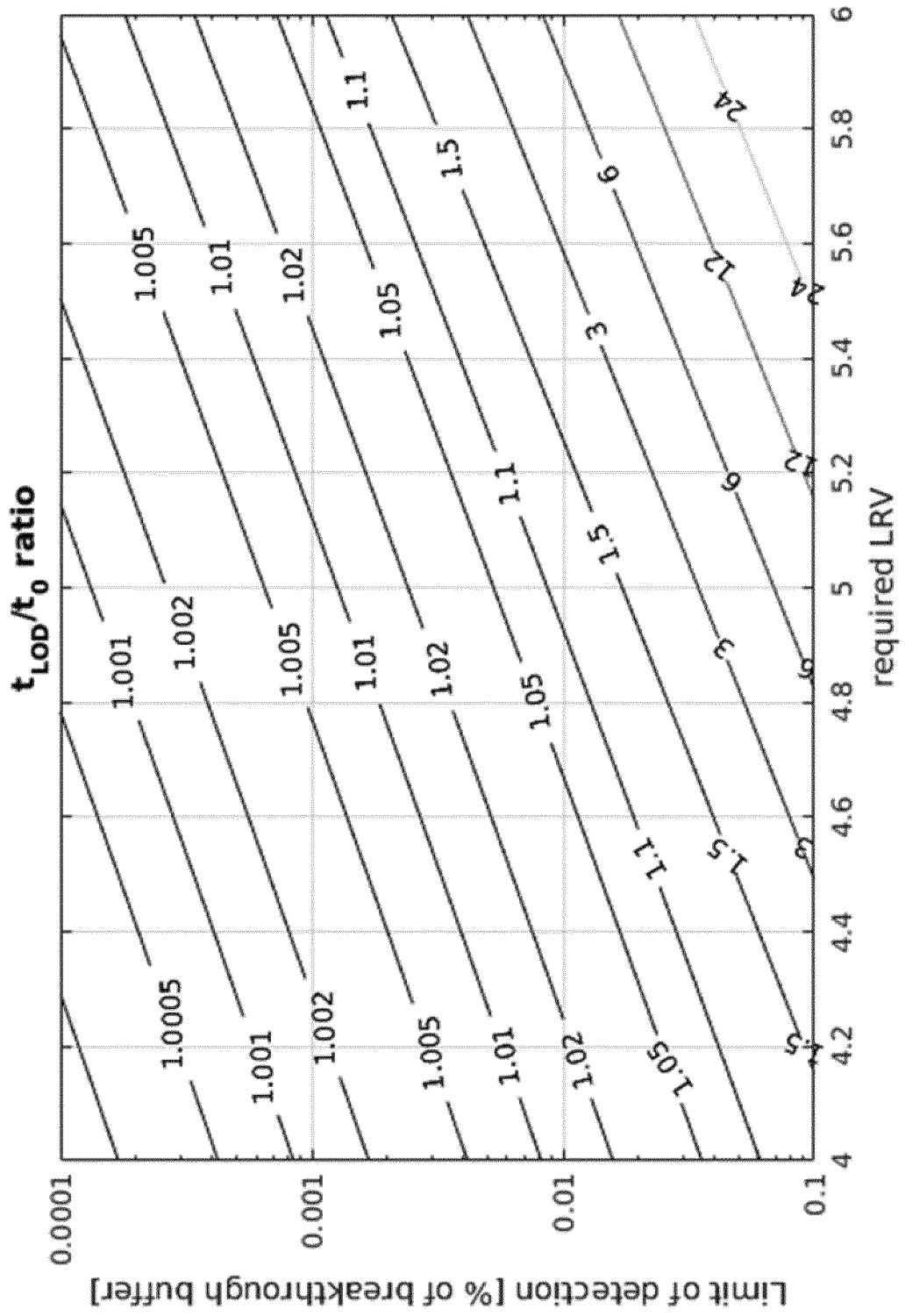
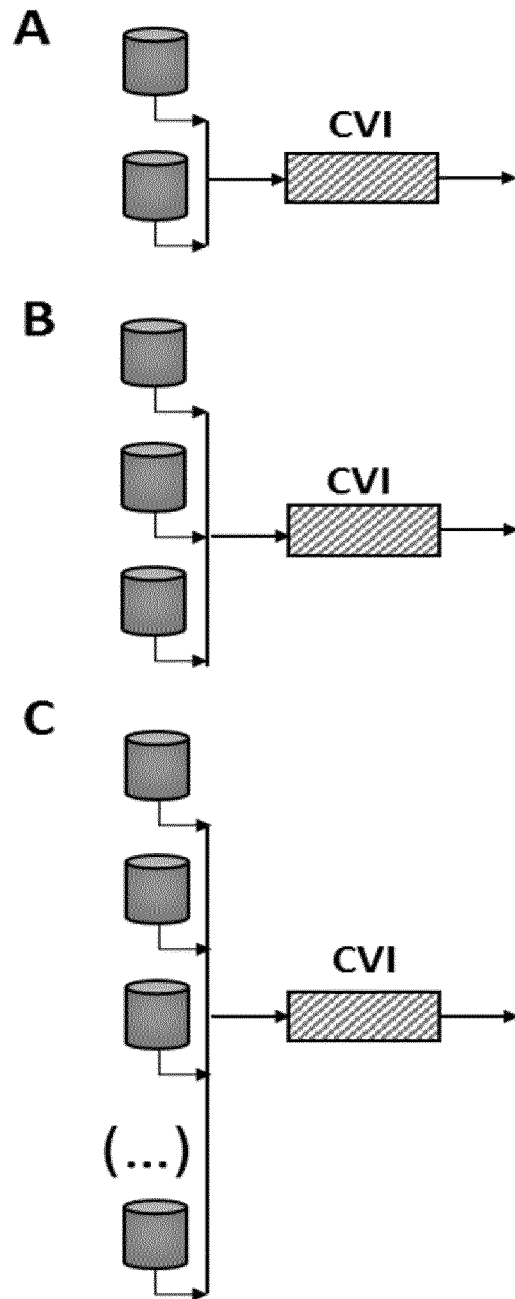


FIG. 16, continued
B



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FIG. 17

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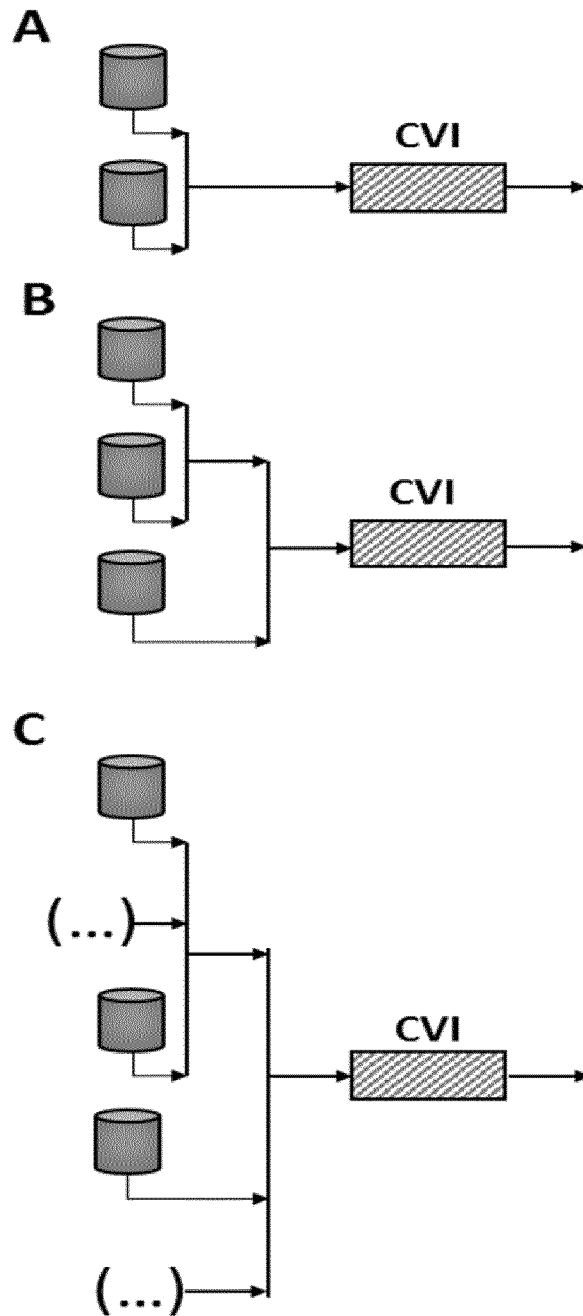
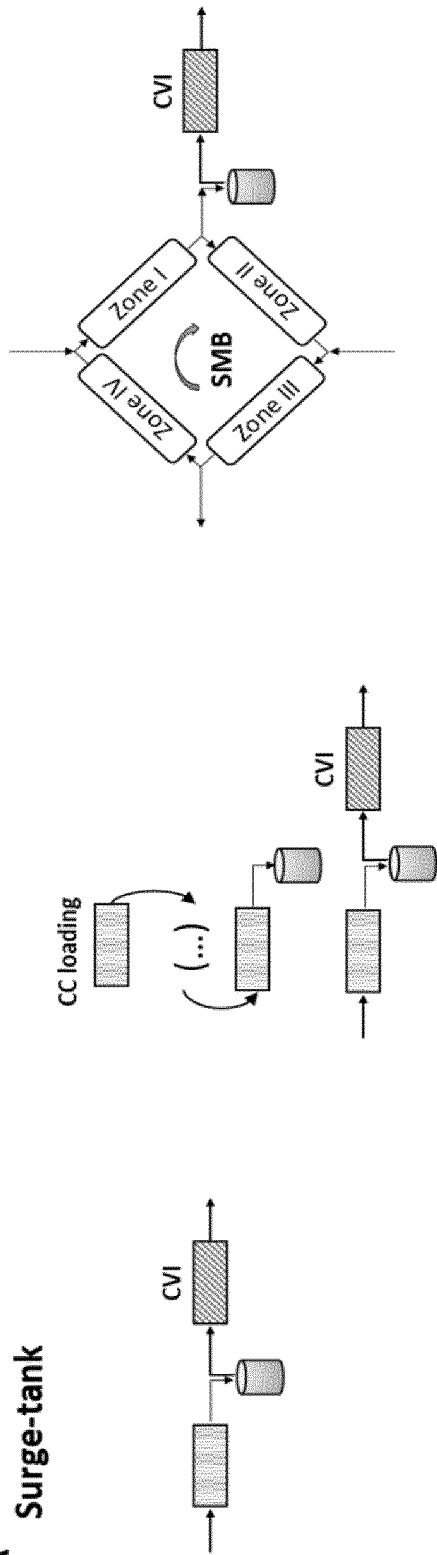
FIG. 18

FIG. 19

A Surge-tank



B Straight-through processing

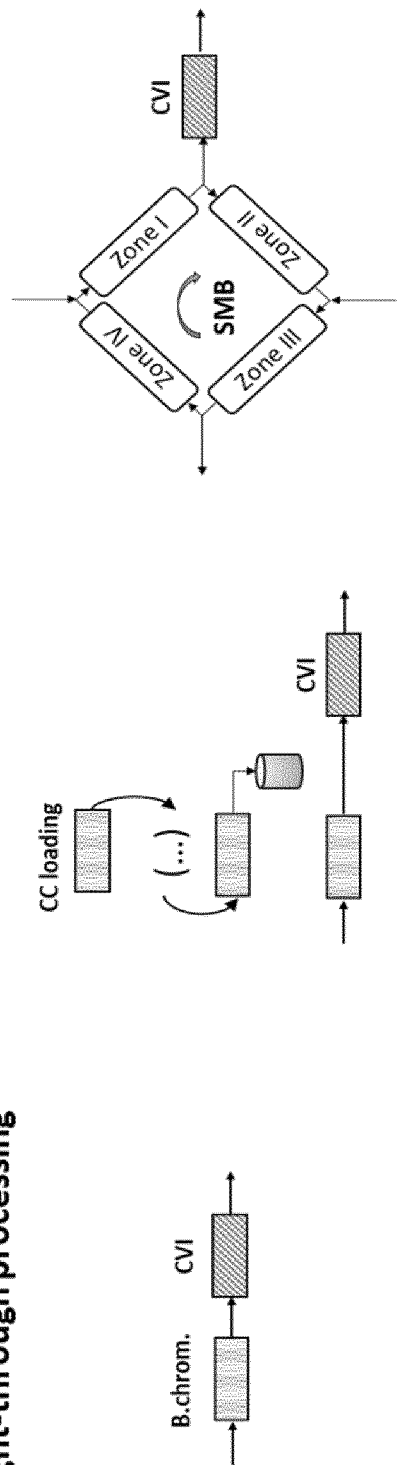


FIG. 20

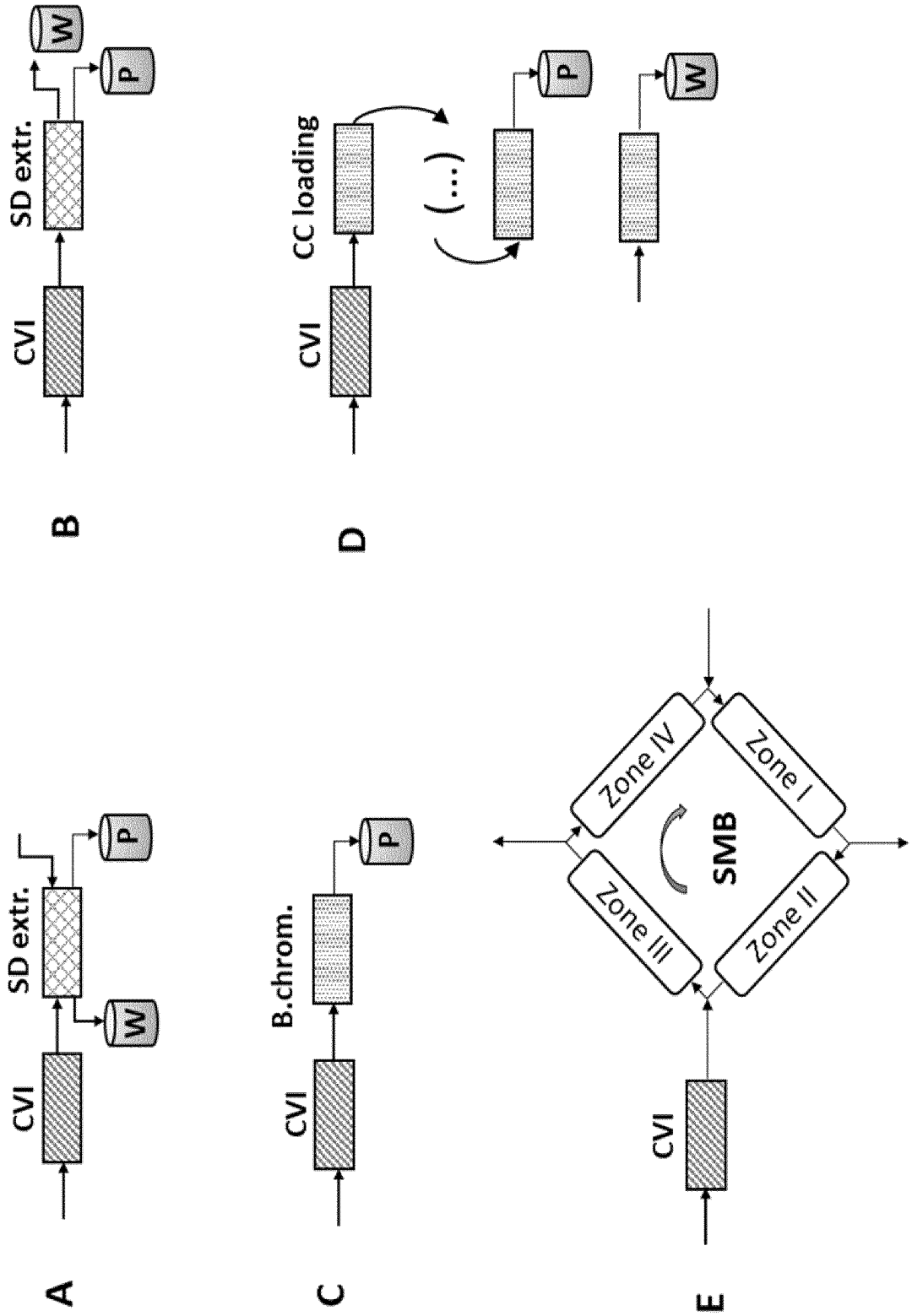


FIG. 21
A

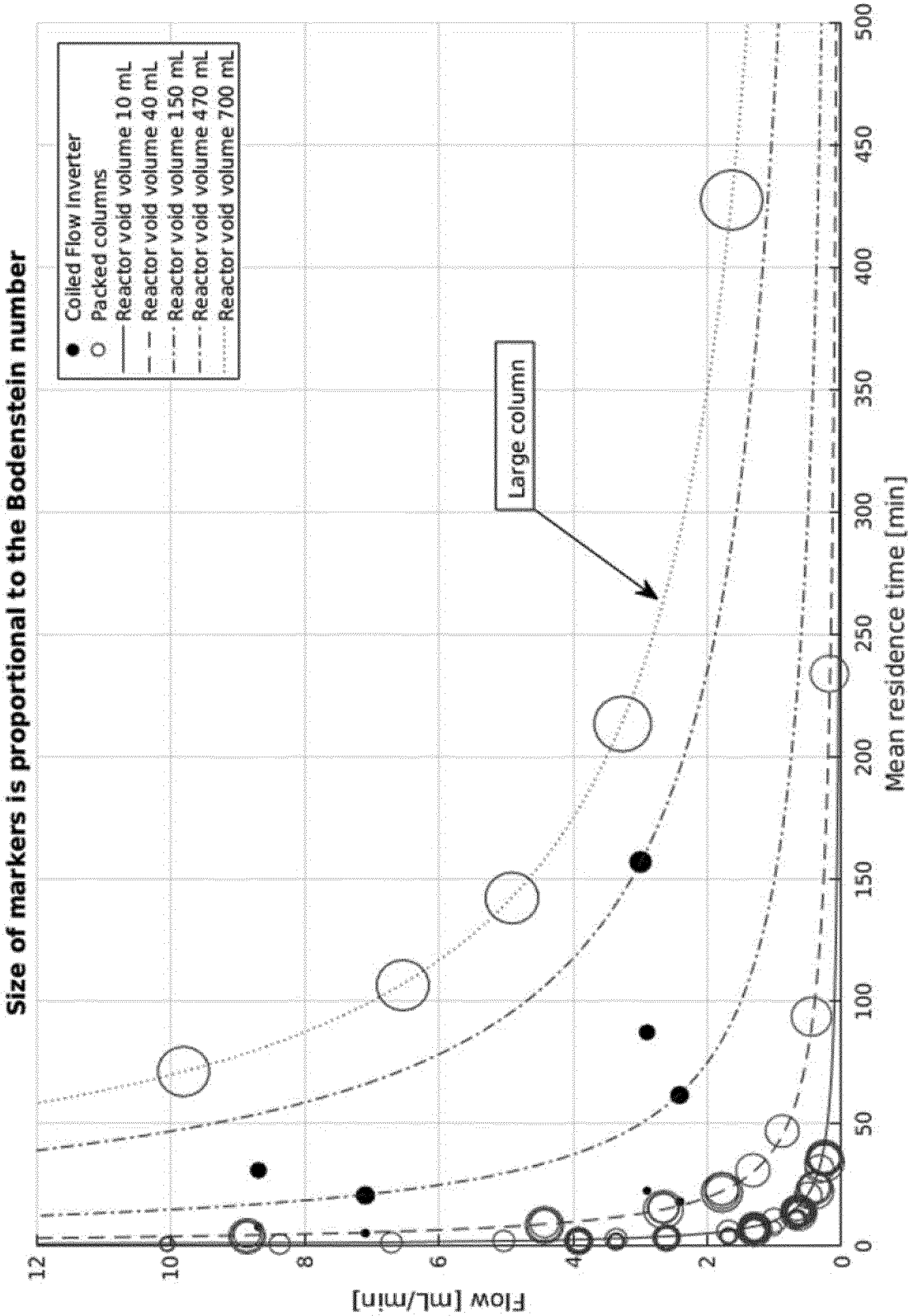


FIG. 21, continued
B

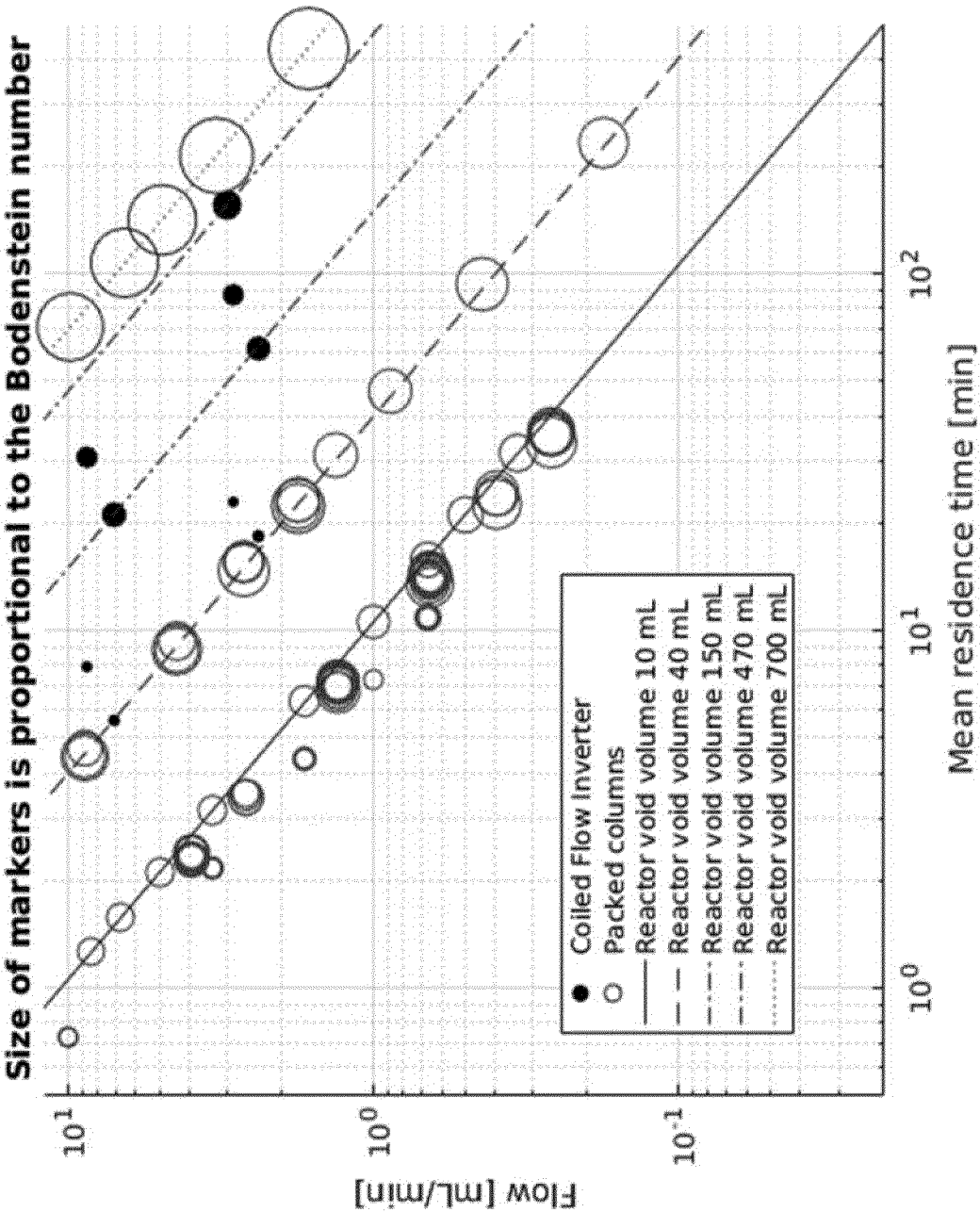
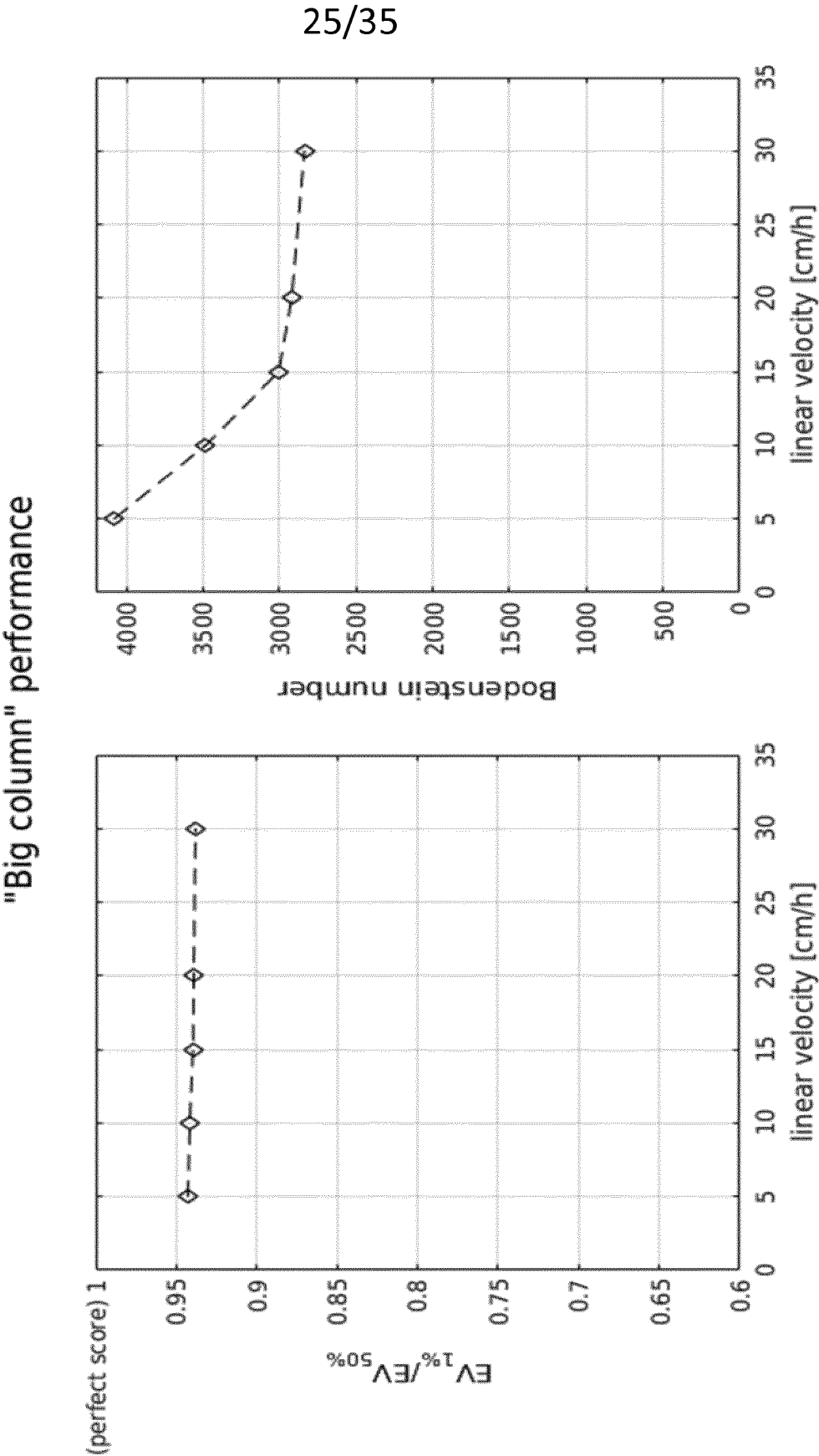
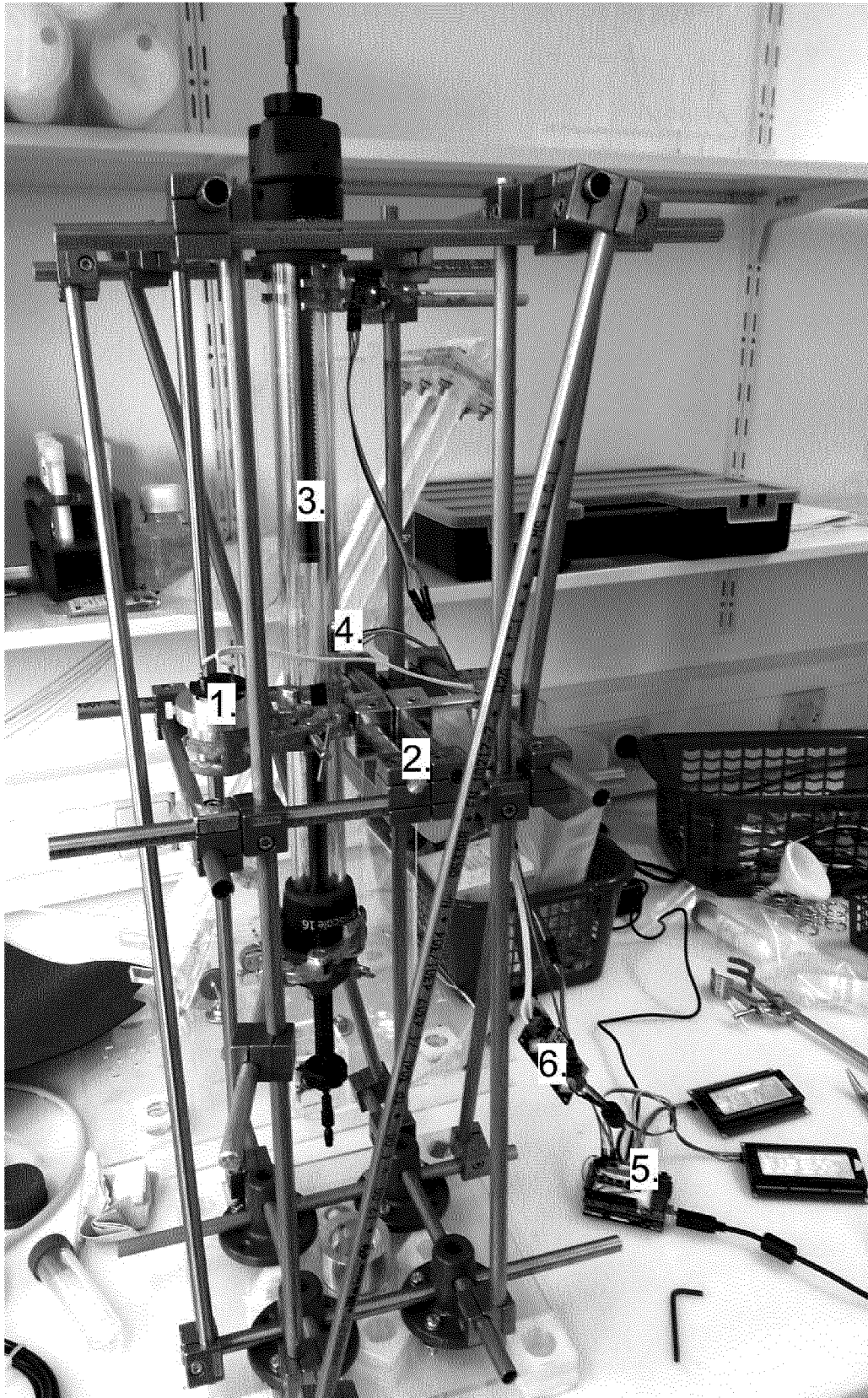


FIG. 21, continued
C



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FIG. 22



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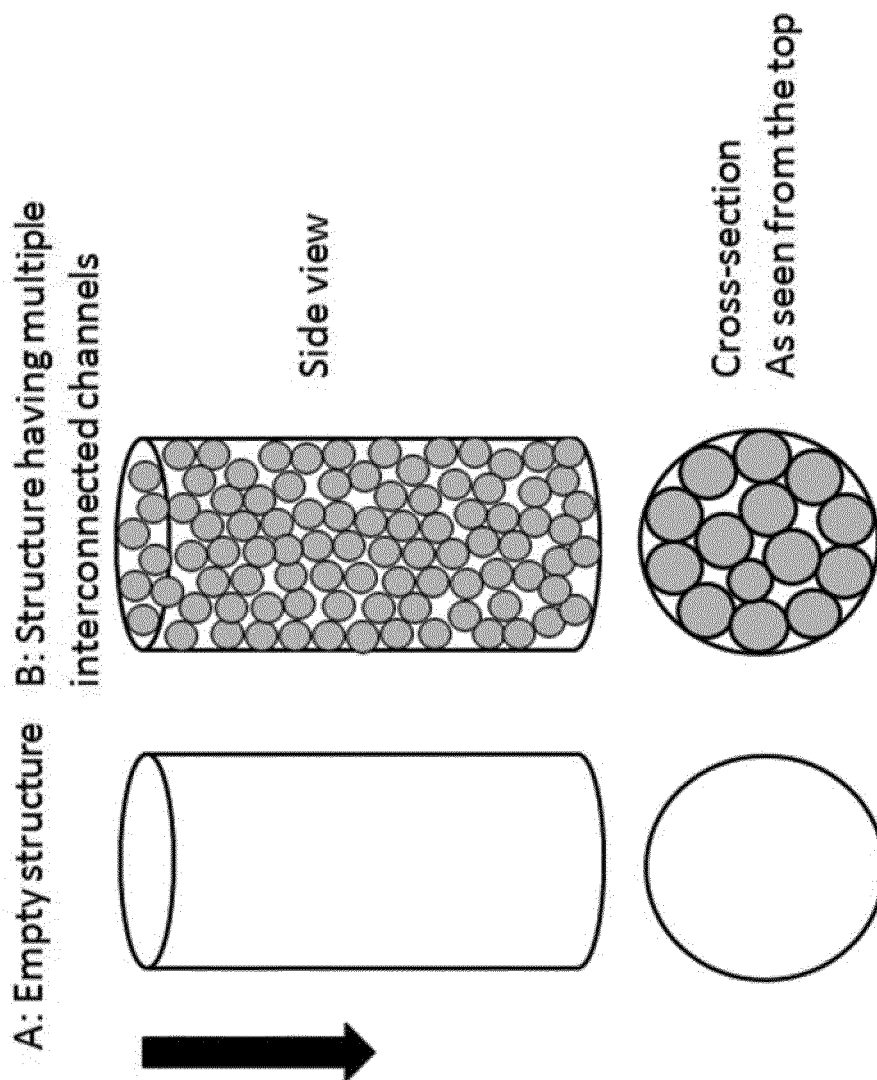


FIG. 23

FIG. 24

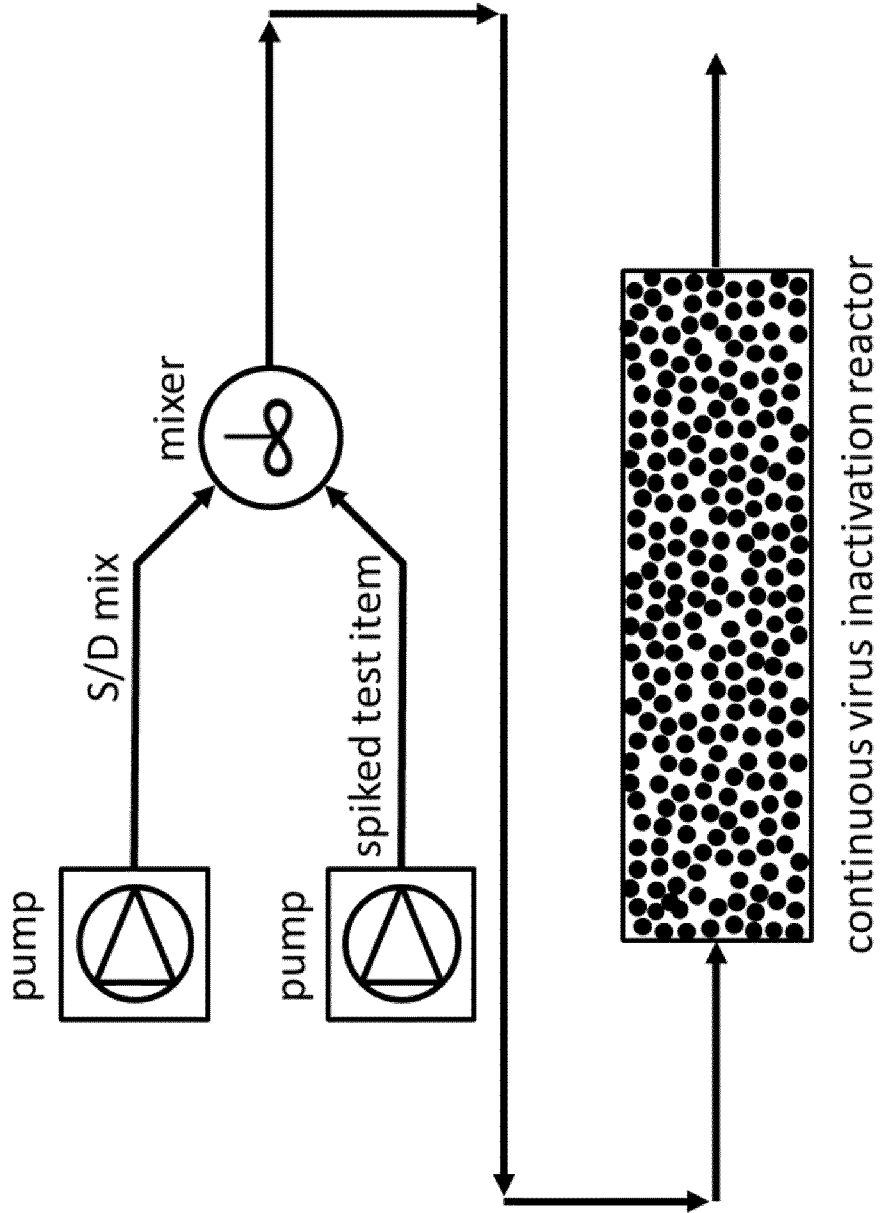


FIG. 25

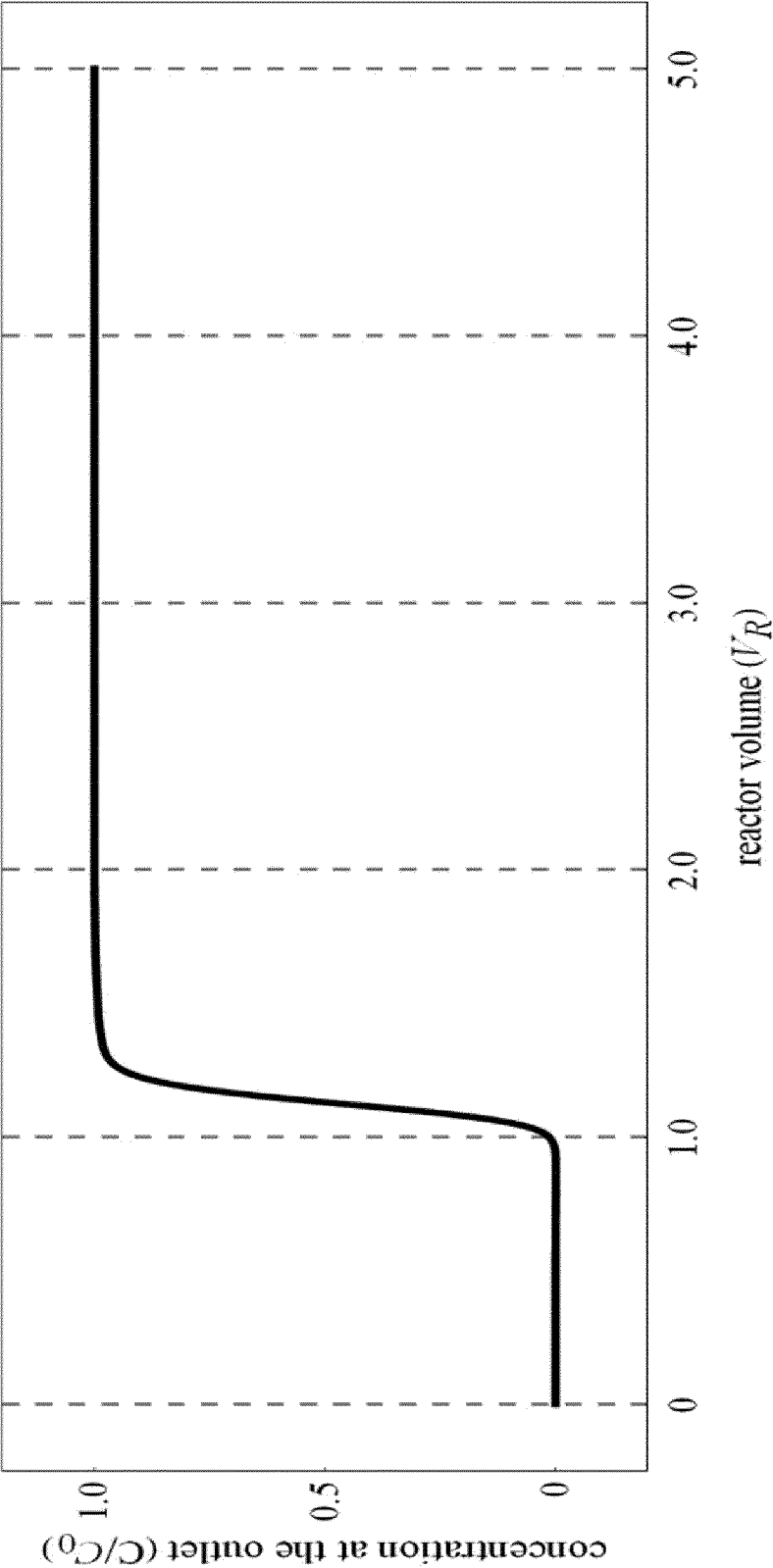


FIG. 26

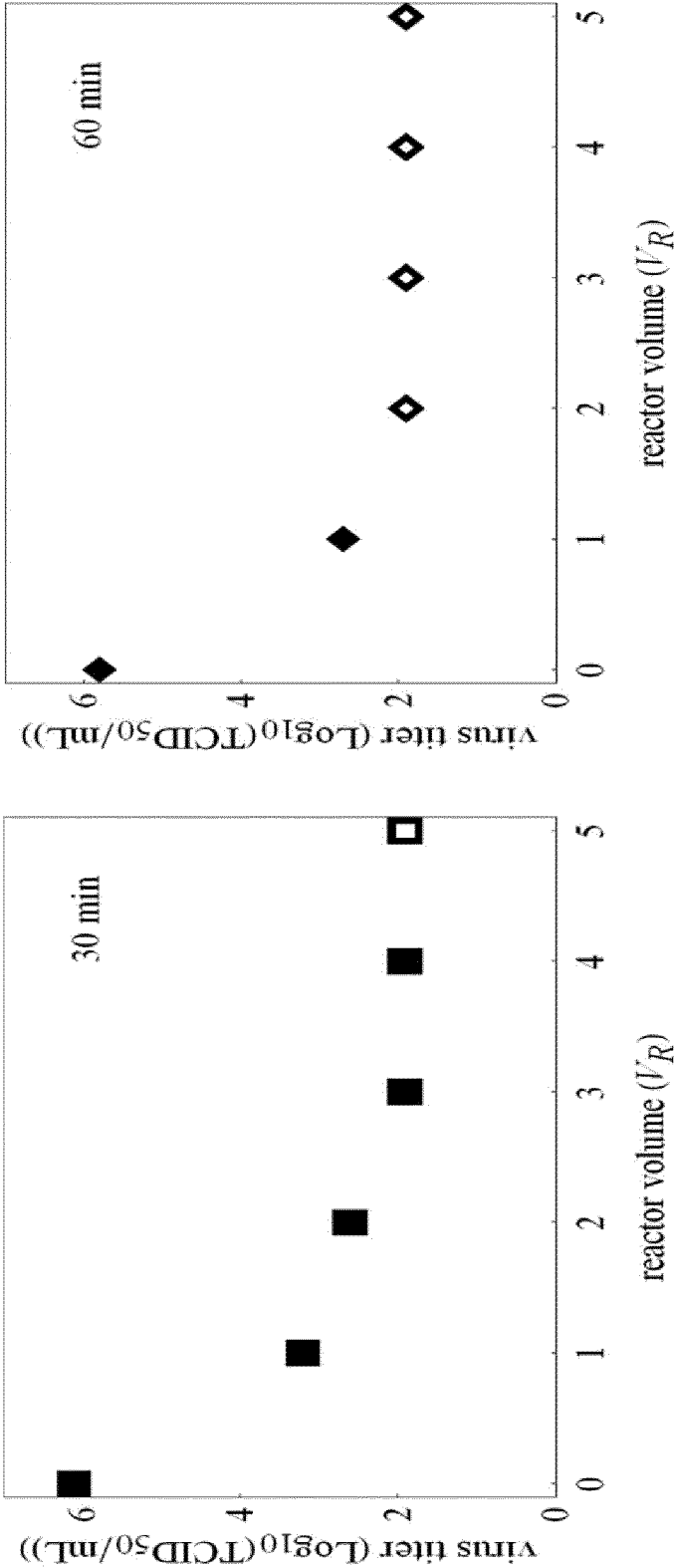
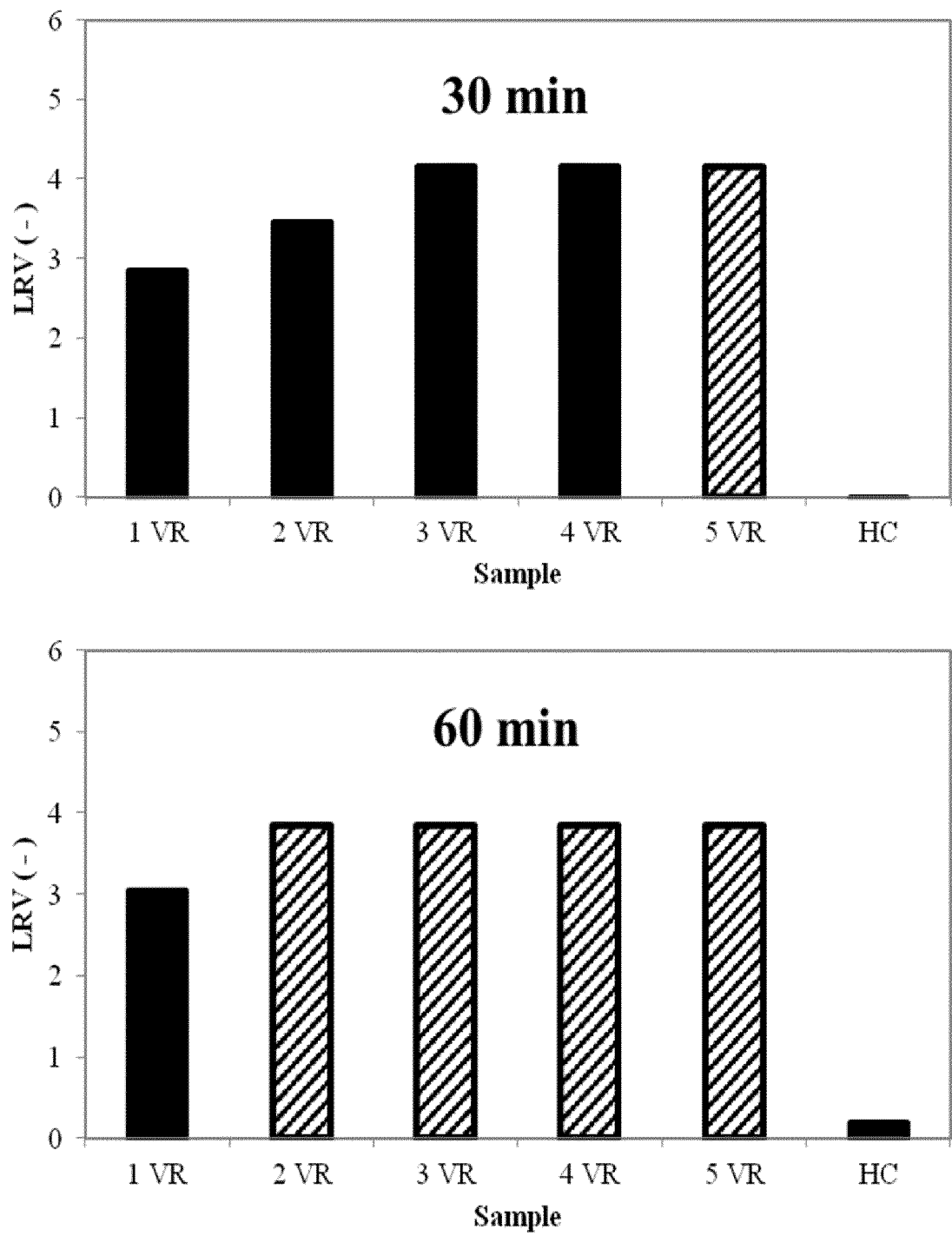


FIG. 27



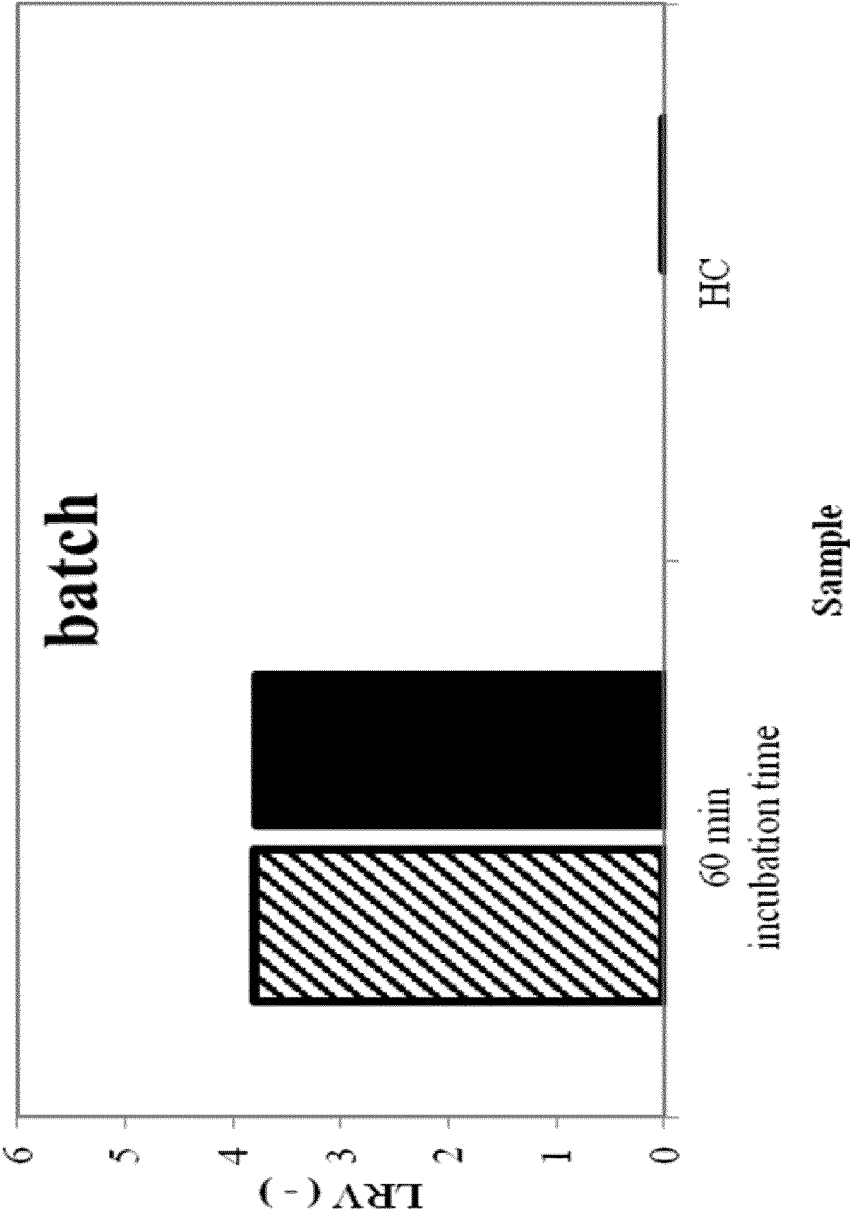


FIG. 28

FIG. 29

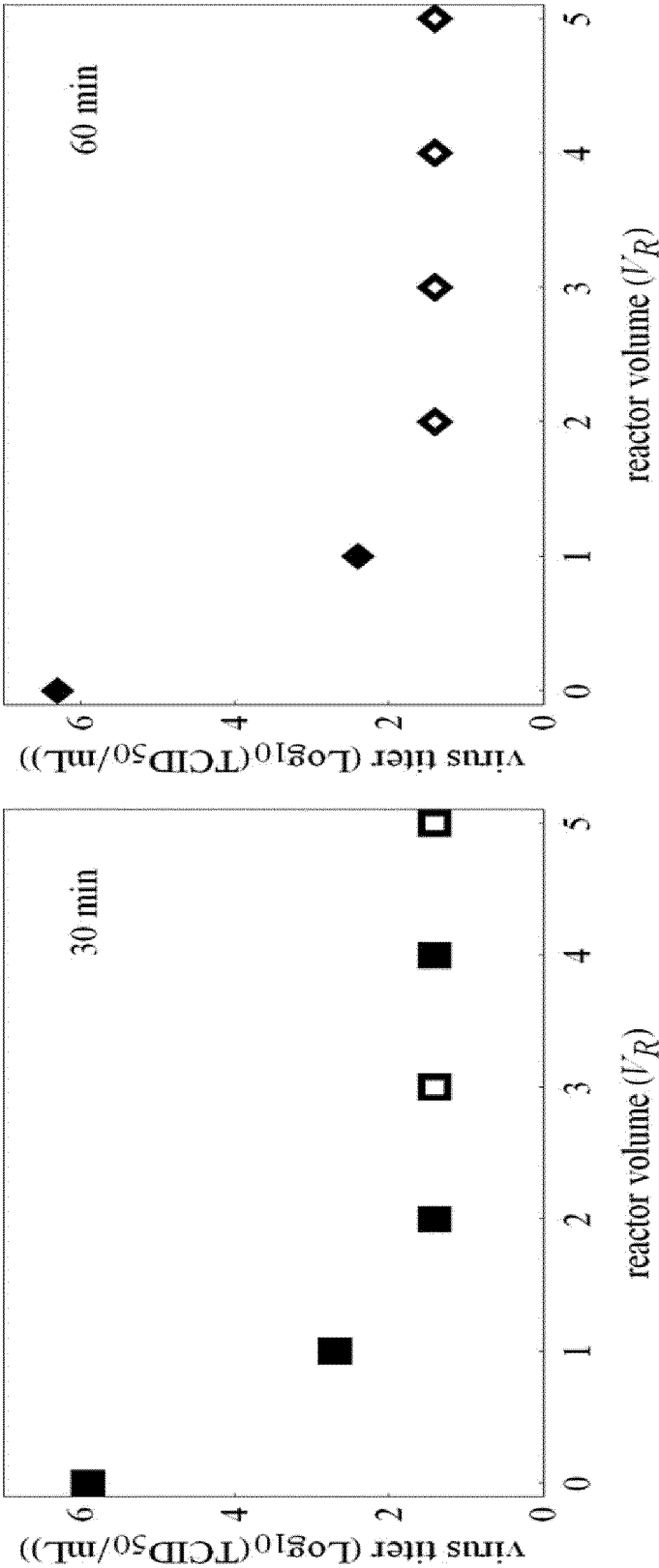


FIG. 30

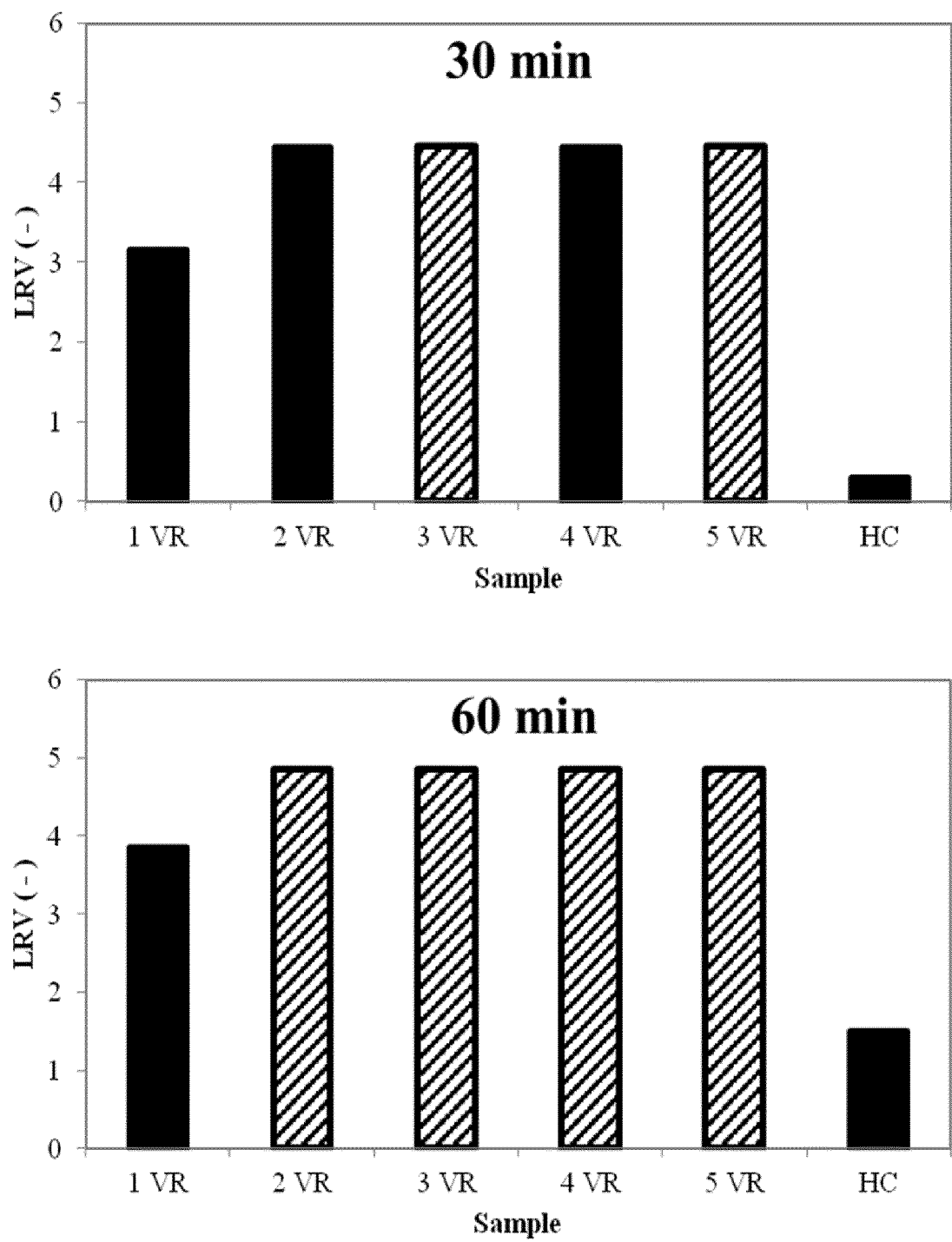


FIG. 31

