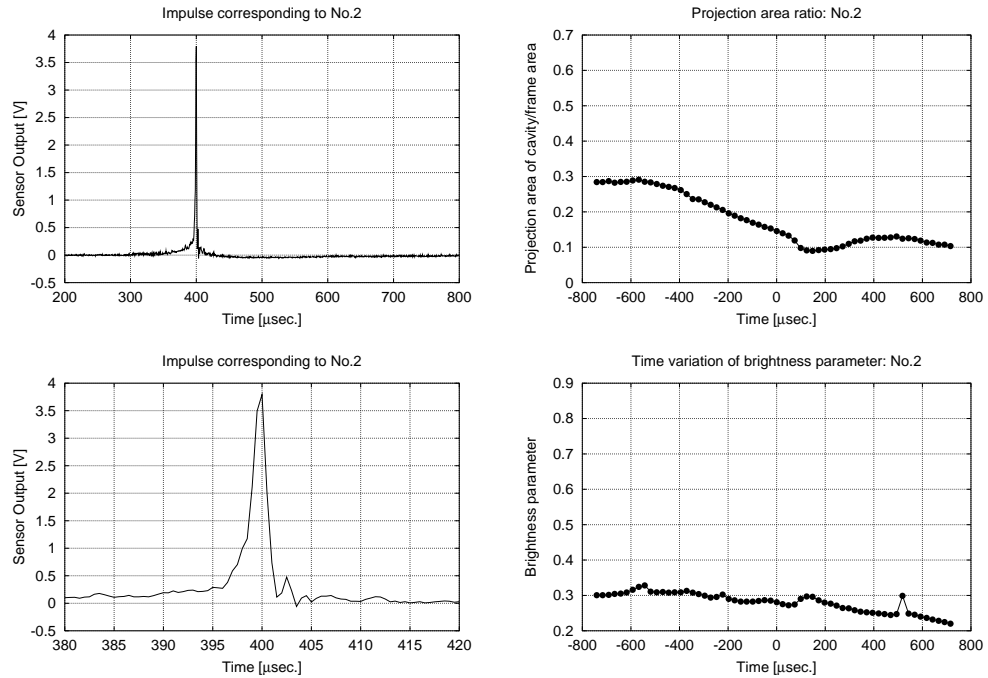


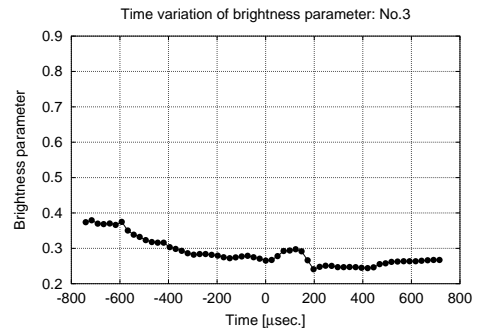
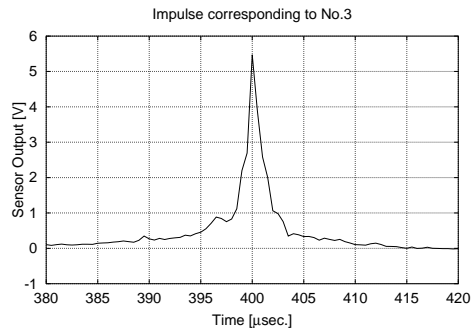
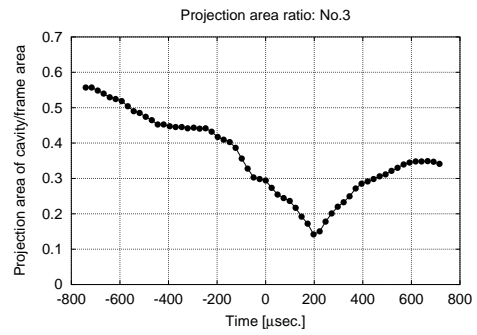
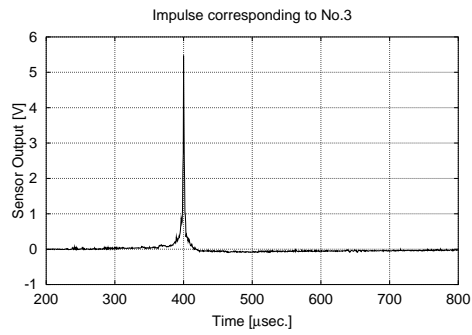
No.1 Impulsive force: 63.8N
Collapsing type: Spherical

Fig. D.1: Output voltage of impulsive force sensors and summarized parameters corresponding to Fig. C.1



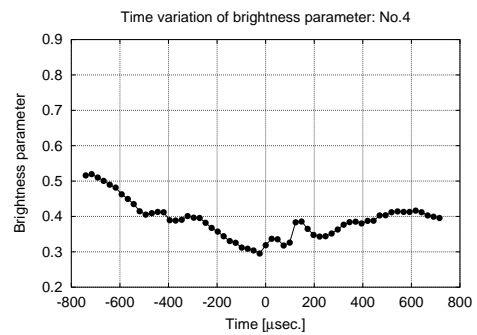
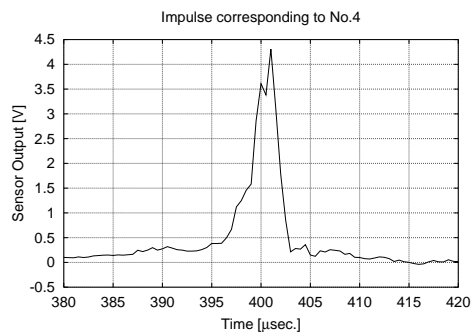
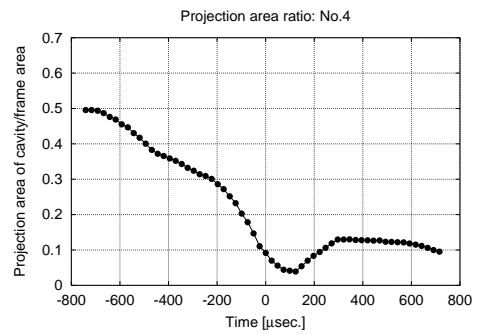
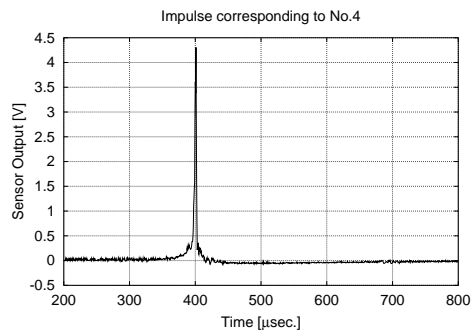
No.2 Impulsive force: 67.2N
Collapsing type: Cylindrical

Fig. D.1: (continued)



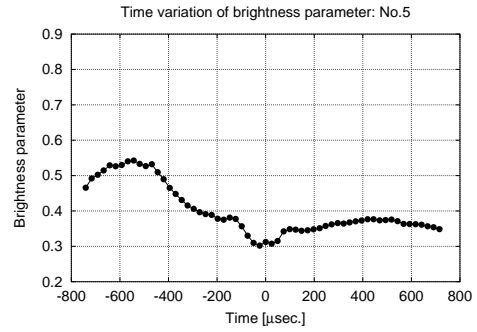
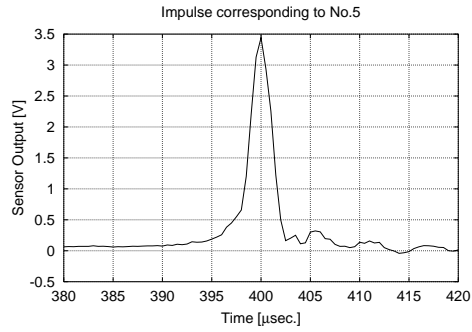
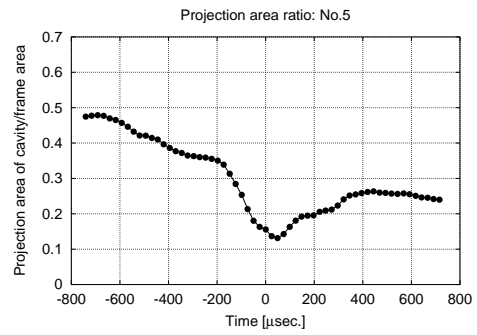
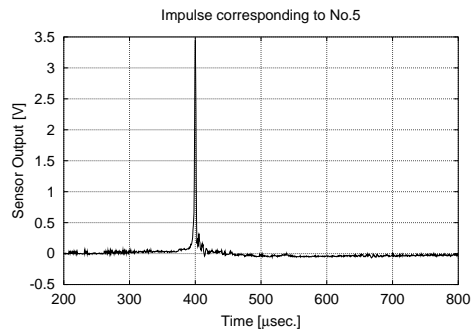
No.3 Impulsive force: 89.7N
Collapsing type: Spherical

Fig. D.1: (continued)



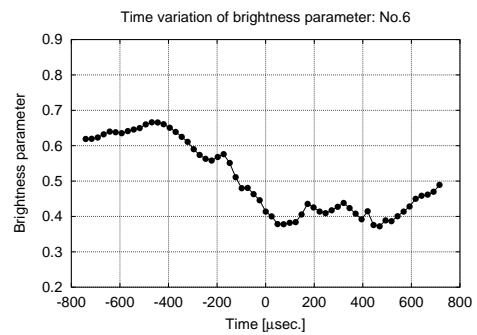
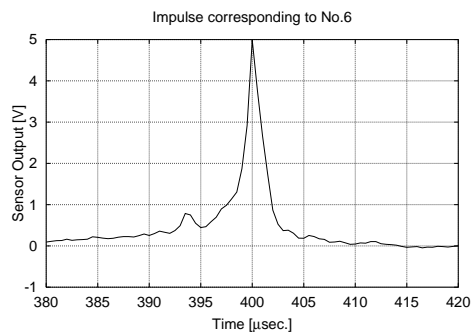
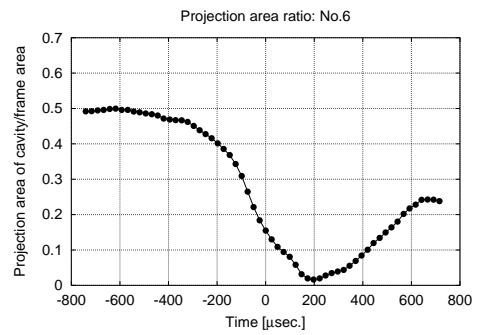
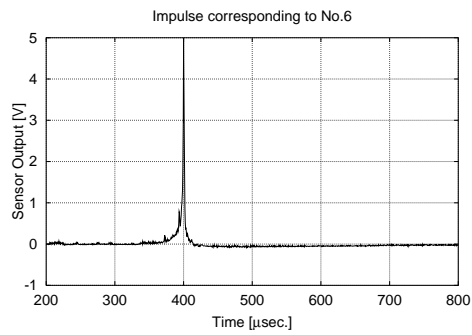
No.4 Impulsive force: 70.1N
Collapsing type: Spherical

Fig. D.1: (continued)



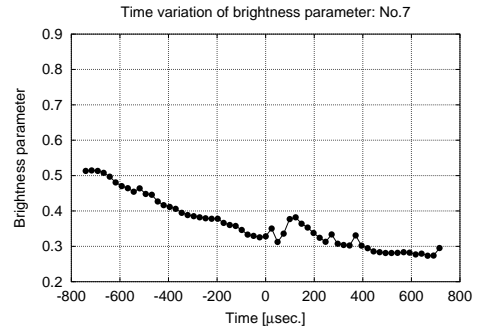
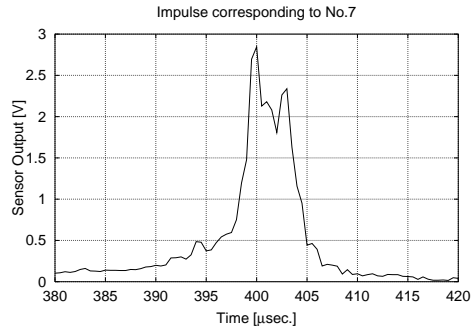
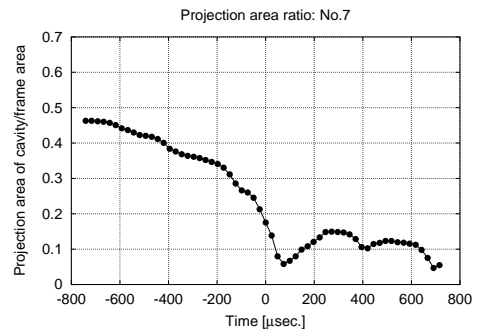
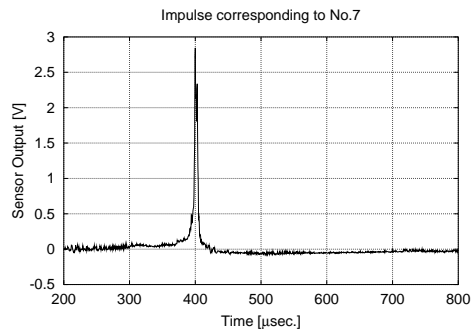
No.5 Impulsive force: 56.5 N
Collapsing type: Spherical

Fig. D.1: (continued)



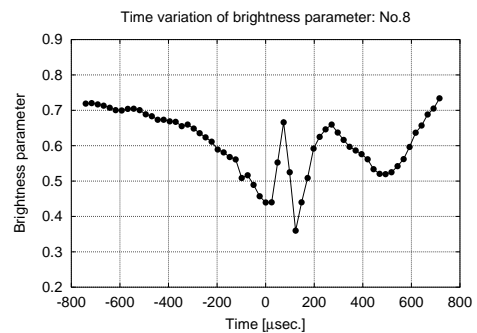
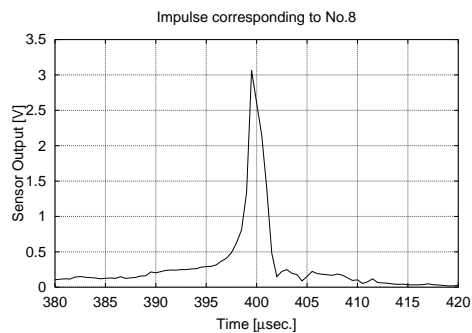
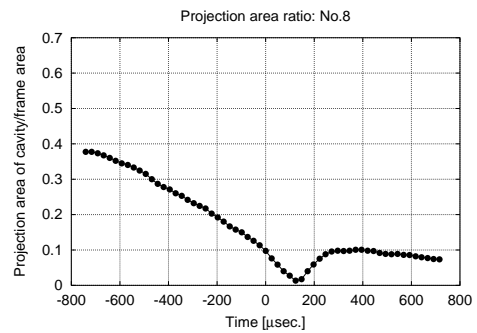
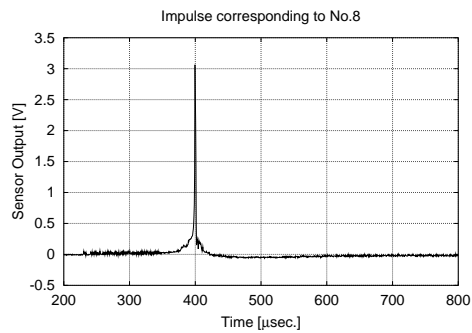
No.6 Impulsive force: 81.4 N
Collapsing type: Axial

Fig. D.1: (continued)



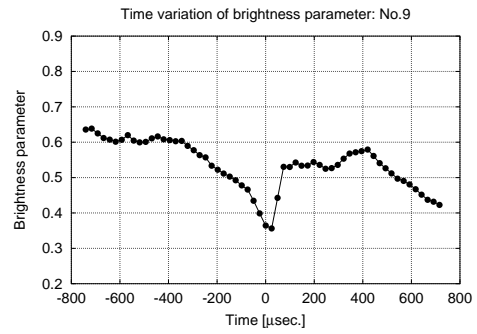
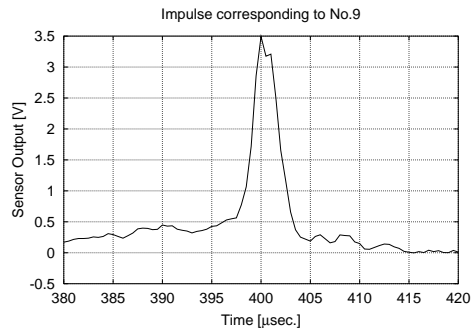
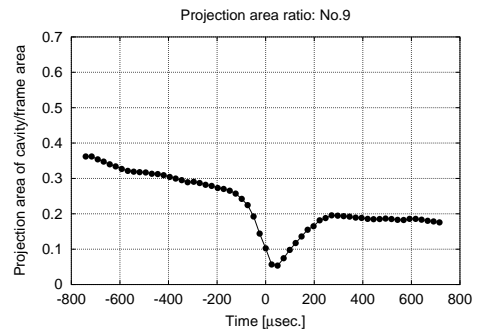
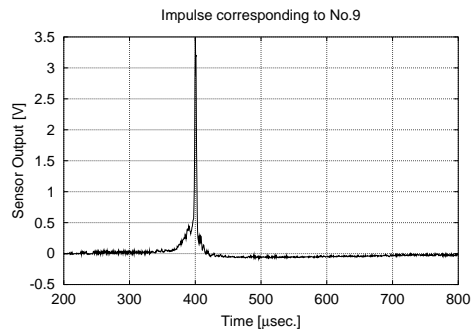
No.7 Impulsive force: 53.6 N
Collapsing type: Spherical

Fig. D.1: (continued)



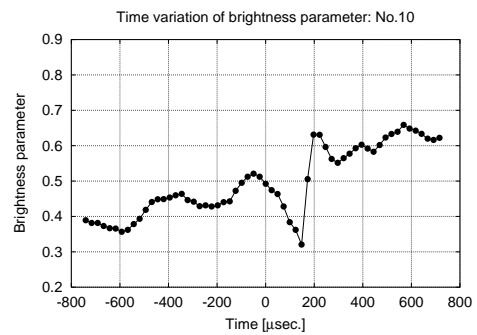
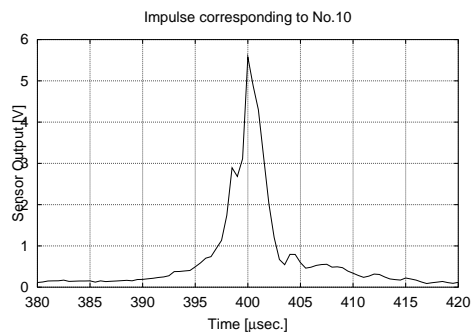
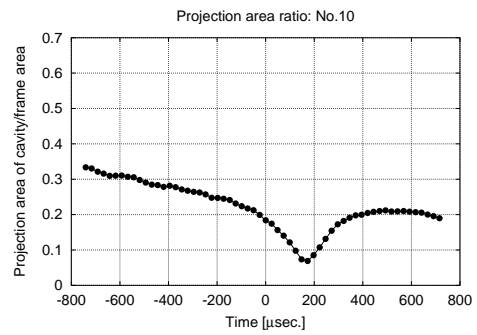
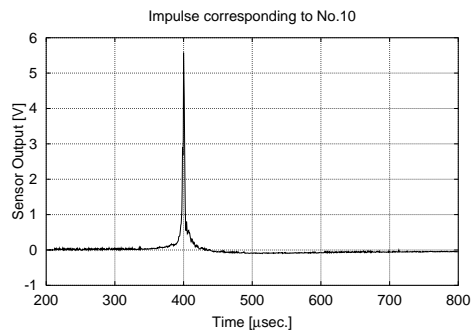
No.8 Impulsive force: 50.5 N
Collapsing type: Axial

Fig. D.1: (continued)



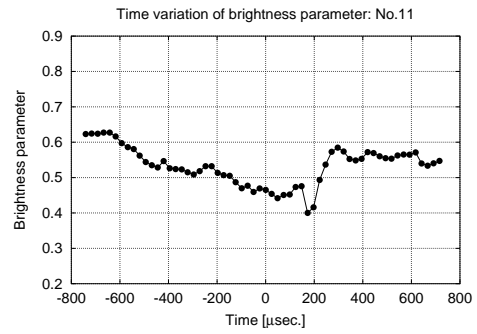
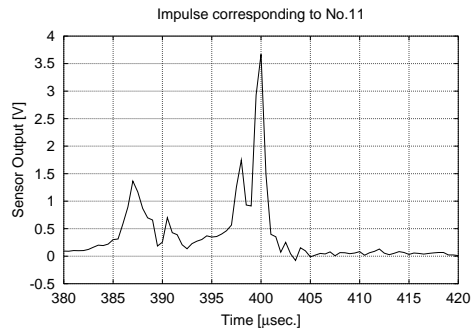
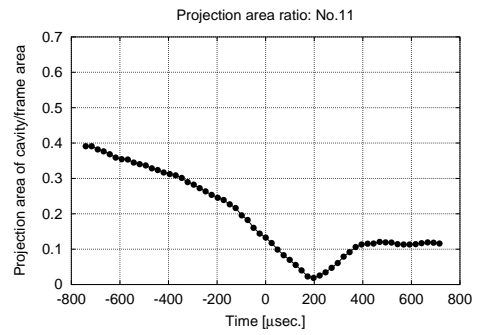
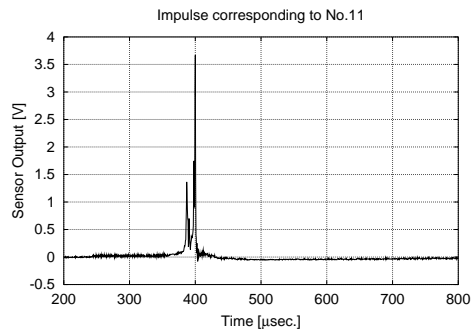
No.9 Impulsive force: 59.1 N
Collapsing type: Spherical

Fig. D.1: (continued)



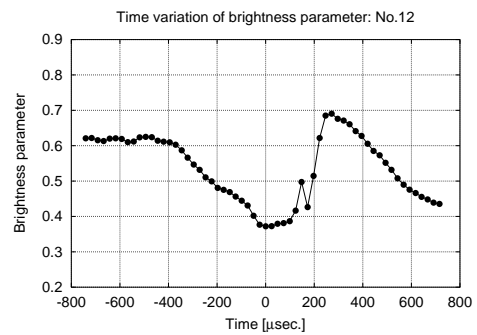
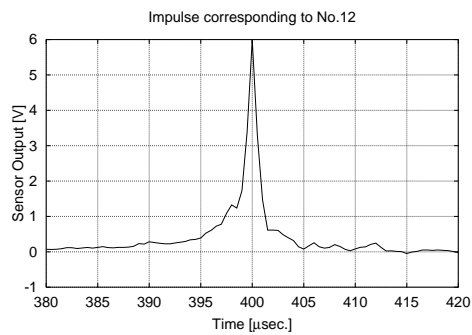
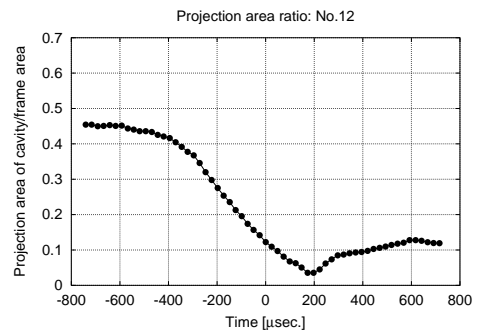
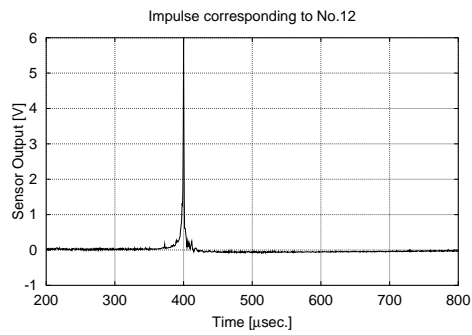
No.10 Impulsive force: 92.2 N
Collapsing type: Spherical

Fig. D.1: (continued)



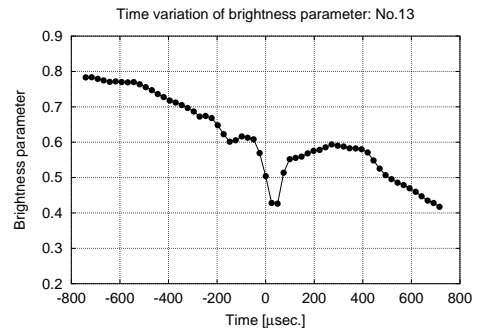
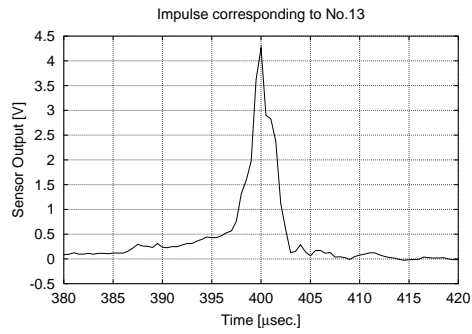
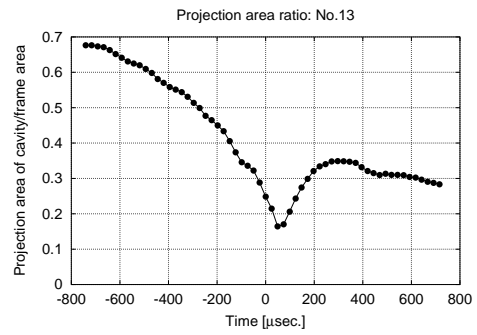
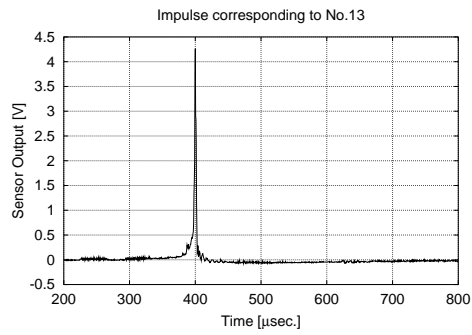
No.11 Impulsive force: 70.6 N
Collapsing type: Spherical

Fig. D.1: (continued)



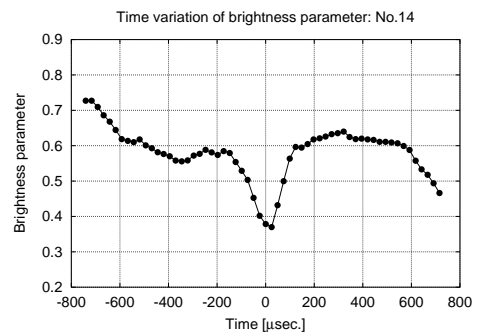
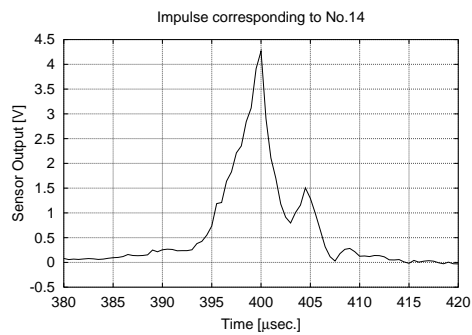
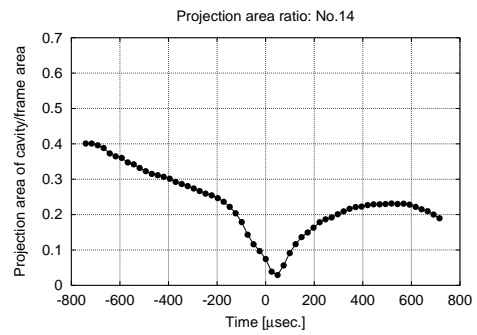
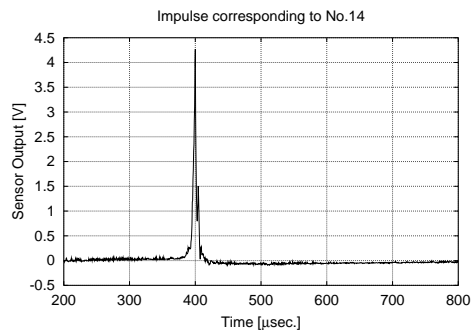
No.12 Impulsive force: 98.6 N
Collapsing type: Spherical

Fig. D.1: (continued)



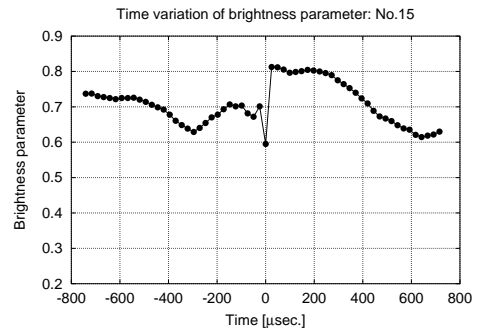
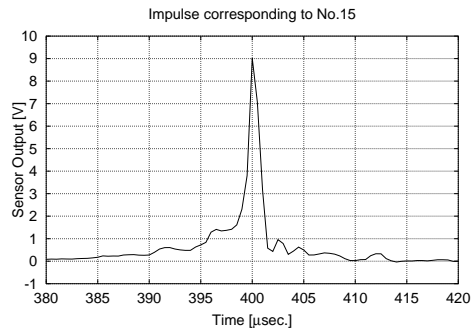
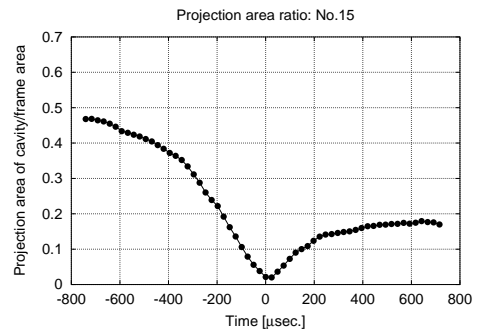
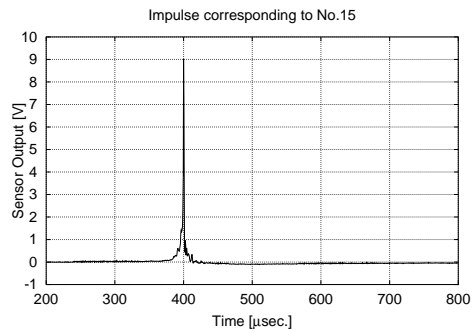
No.13 Impulsive force: 75.1 N
Collapsing type: Spherical

Fig. D.1: (continued)



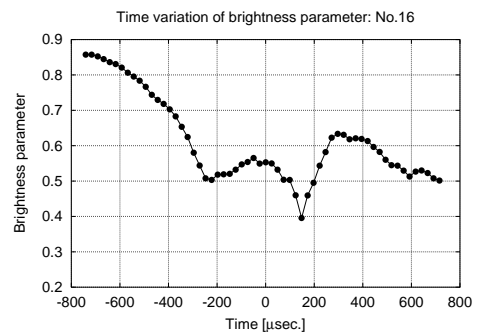
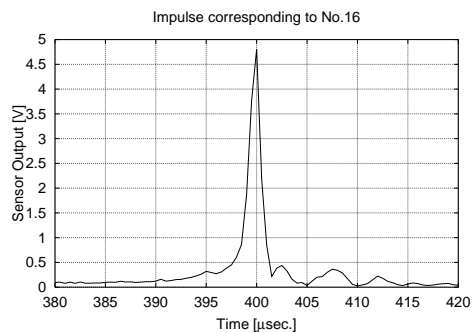
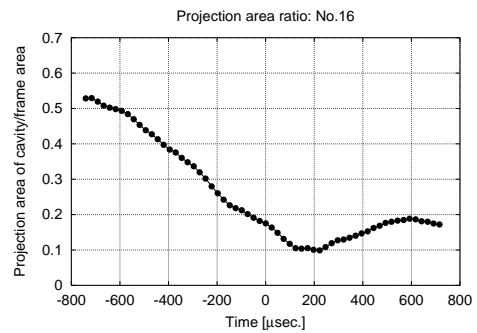
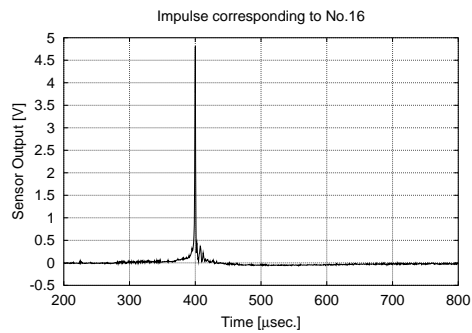
No.14 Impulsive force: 74.0 N
Collapsing type: Spherical

Fig. D.1: (continued)



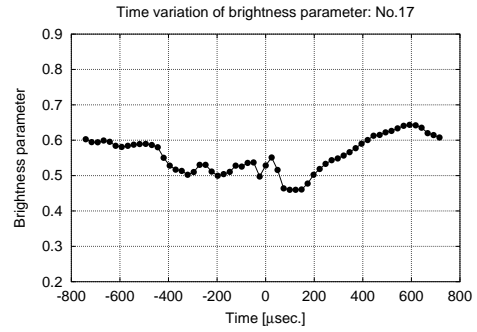
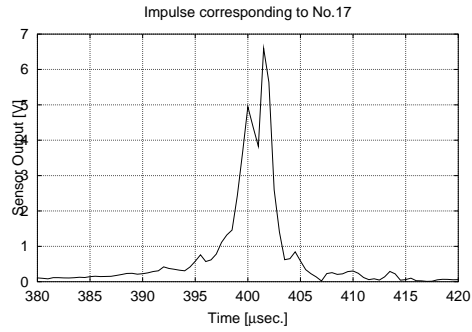
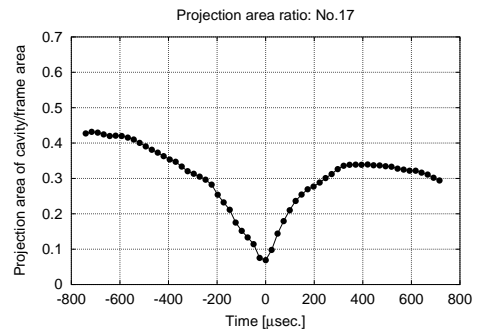
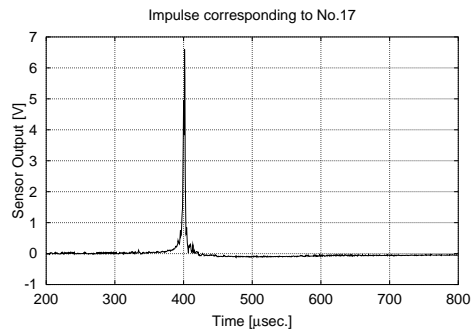
No.15 Impulsive force: 148.7N
Collapsing type: Spherical

Fig. D.1: (continued)



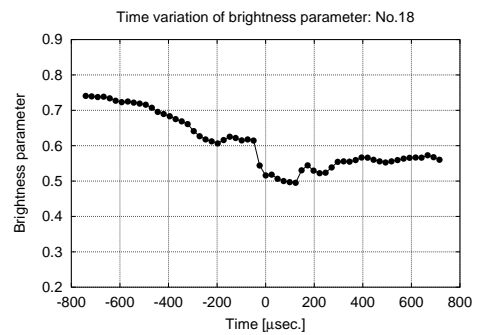
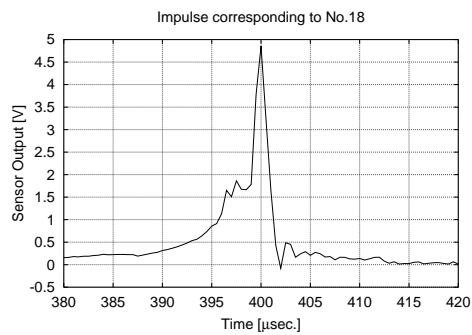
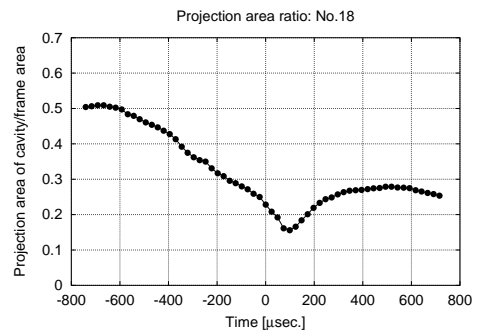
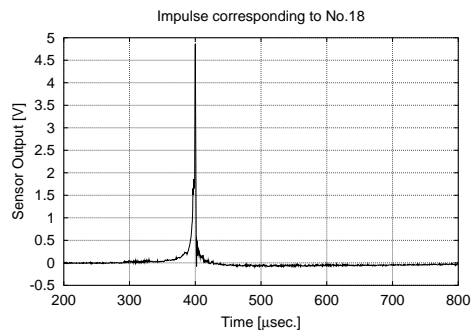
No.16 Impulsive force: 79.4N
Collapsing type: Spherical

Fig. D.1: (continued)



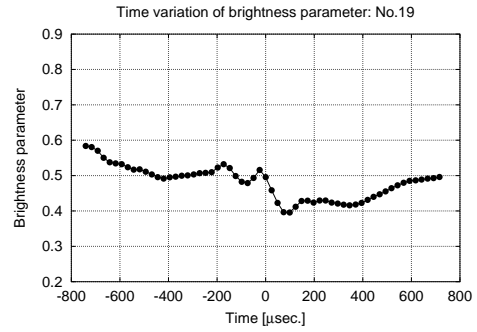
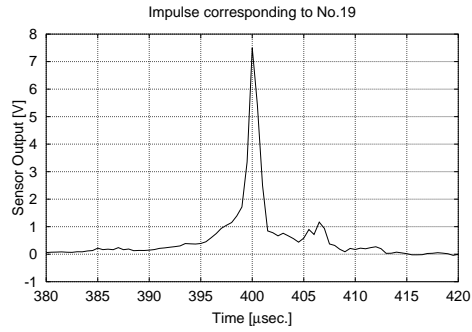
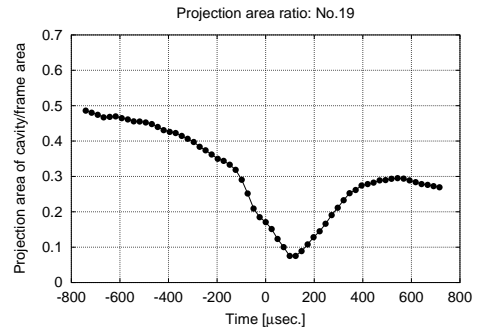
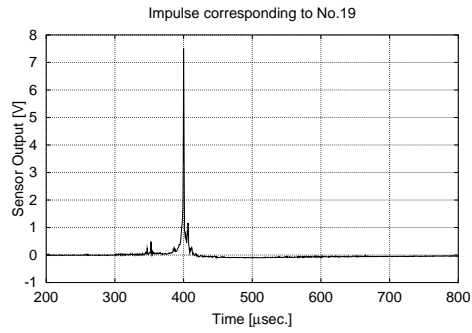
No.17 Impulsive force: 117.9 N
Collapsing type: Spherical

Fig. D.1: (continued)



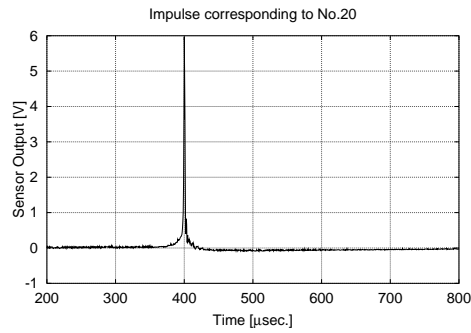
No.18 Impulsive force: 83.9 N
Collapsing type: Axial

Fig. D.1: (continued)

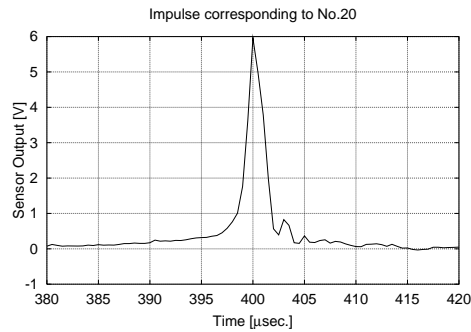


No.19 Impulsive force: 124.3 N
Collapsing type: Spherical

Fig. D.1: (continued)



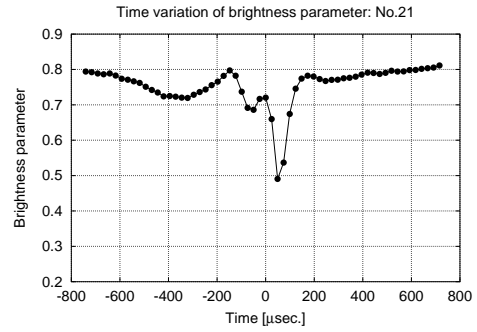
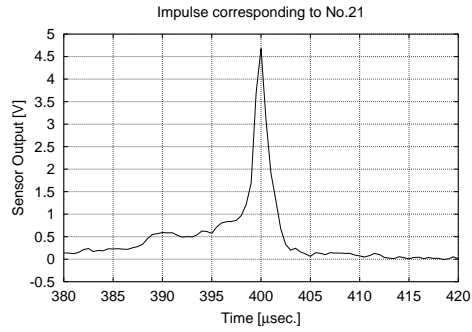
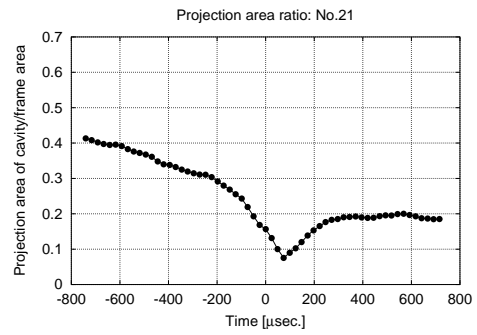
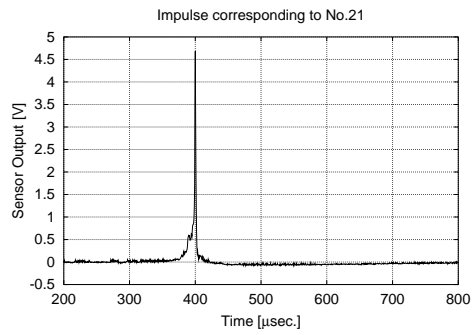
Projection area
not available



Brightness parameter
not available

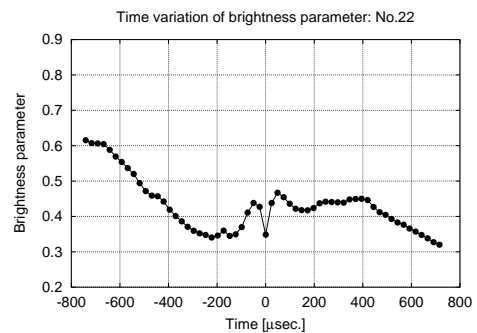
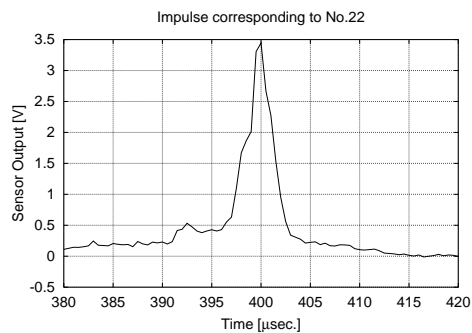
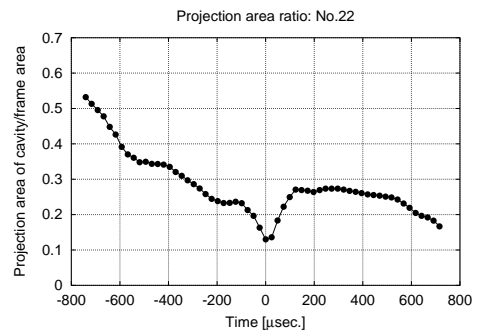
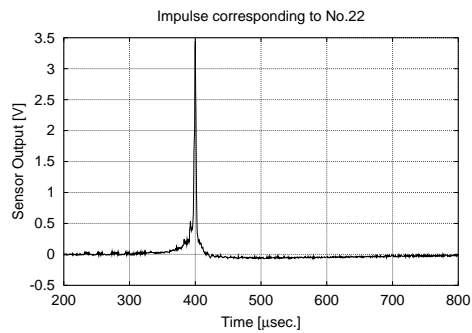
No.20 Impulsive force: 97.3 N
Collapsing type: Spherical

Fig. D.1: (continued)



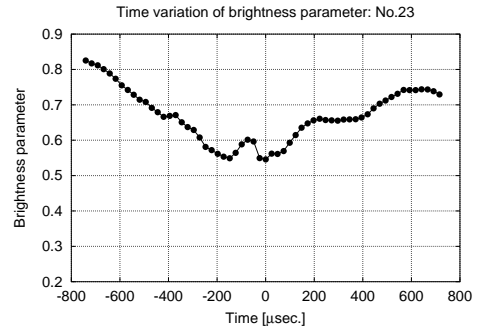
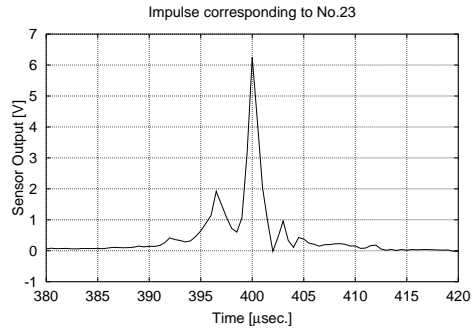
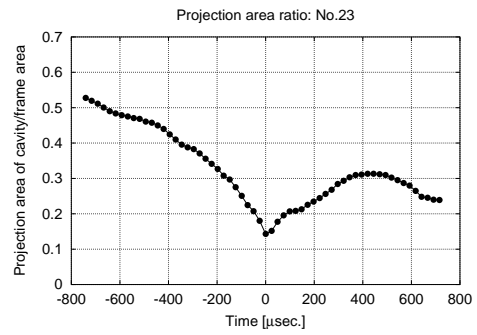
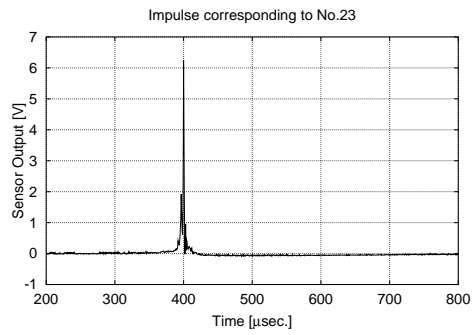
No.21 Impulsive force: 79.7 N
Collapsing type: Spherical

Fig. D.1: (continued)



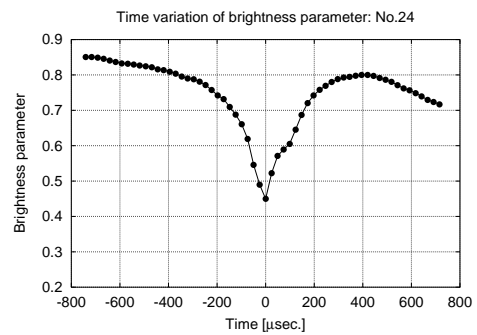
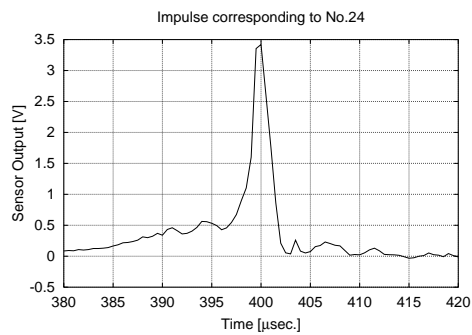
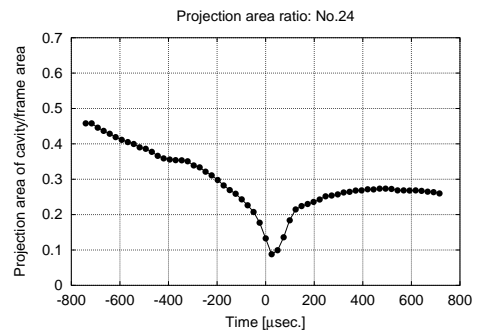
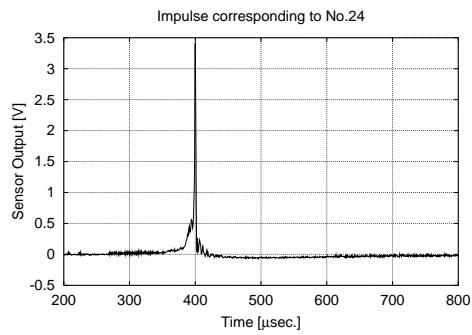
No.22 Impulsive force: 61.7 N
Collapsing type: Axial

Fig. D.1: (continued)



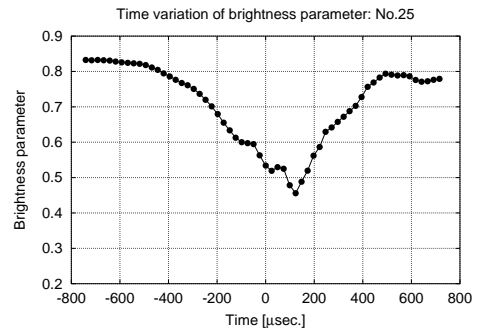
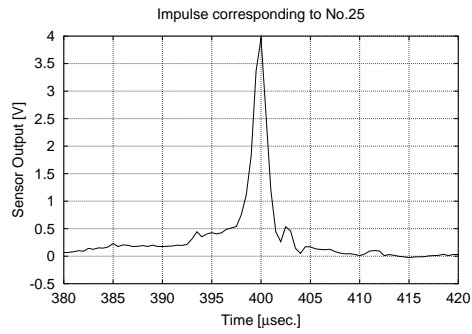
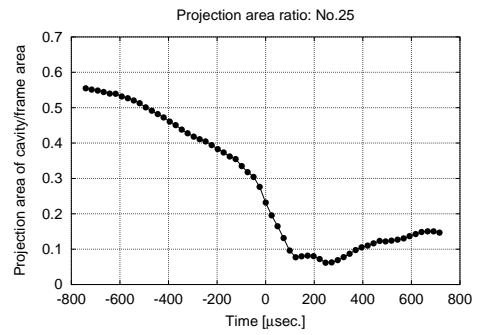
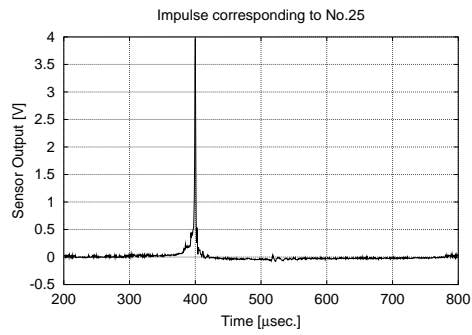
No.23 Impulsive force: 101.9 N
Collapsing type: Spherical

Fig. D.1: (continued)



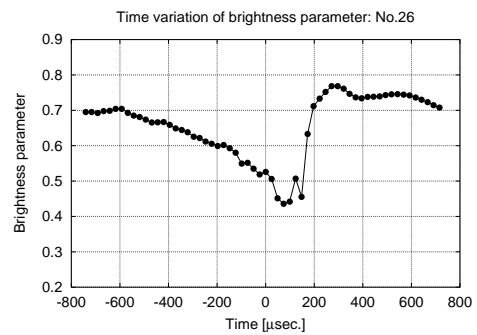
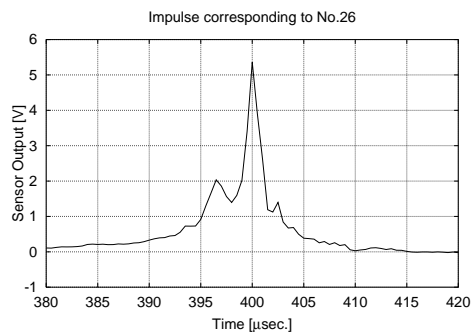
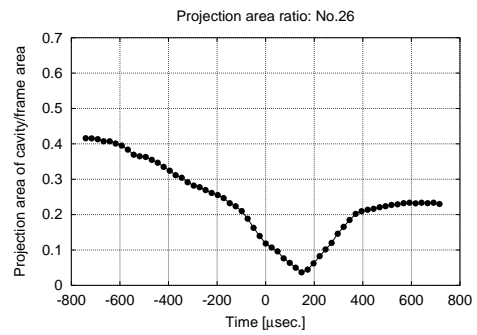
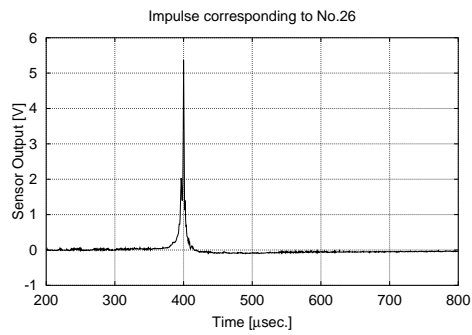
No.24 Impulsive force: 61.9 N
Collapsing type: Cylindrical

Fig. D.1: (continued)



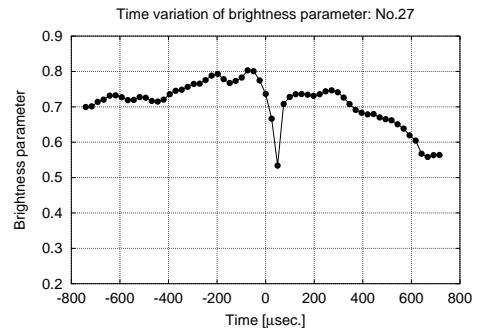
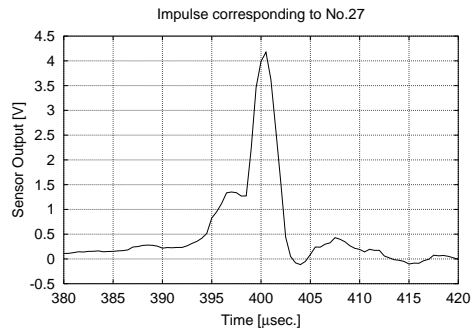
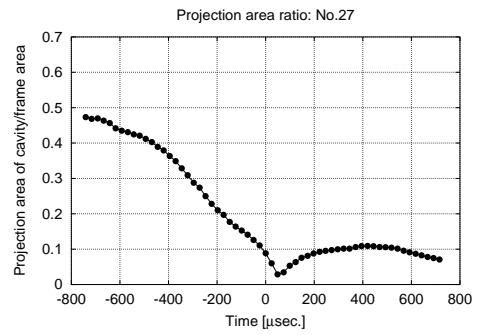
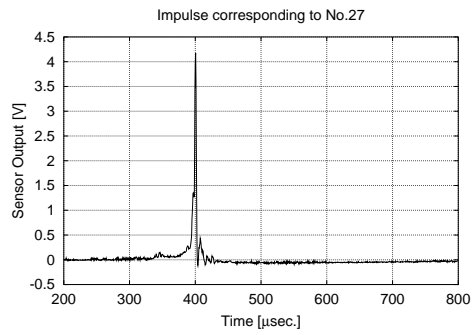
No.25 Impulsive force: 68.5 N
Collapsing type: Spherical

Fig. D.1: (continued)



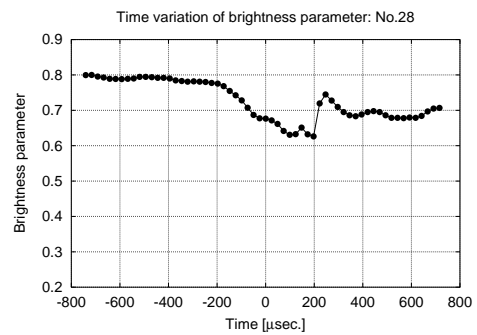
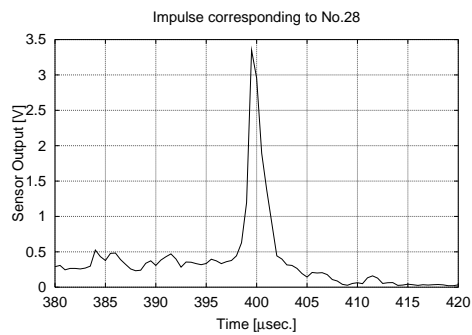
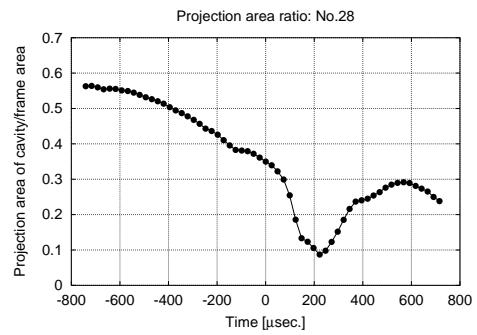
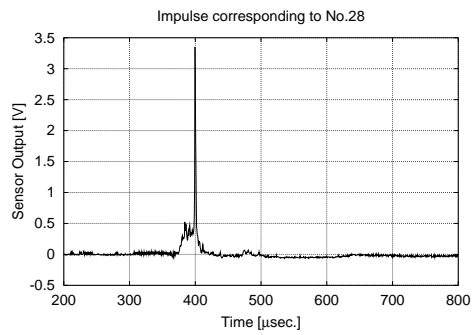
No.26 Impulsive force: 87.9 N
Collapsing type: Axial

Fig. D.1: (continued)



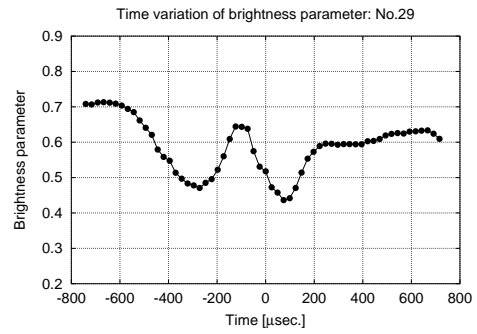
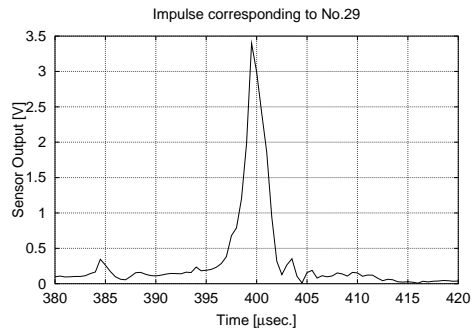
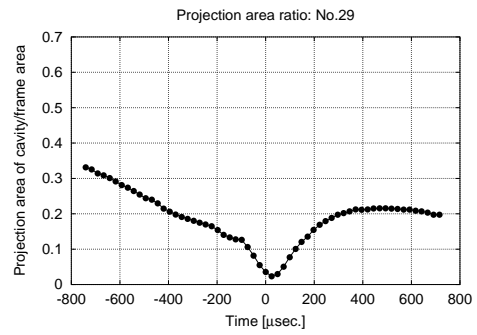
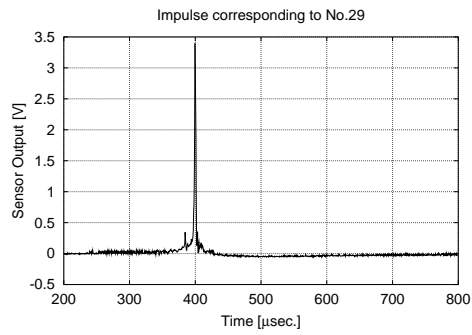
No.27 Impulsive force: 69.1 N
Collapsing type: Spherical

Fig. D.1: (continued)



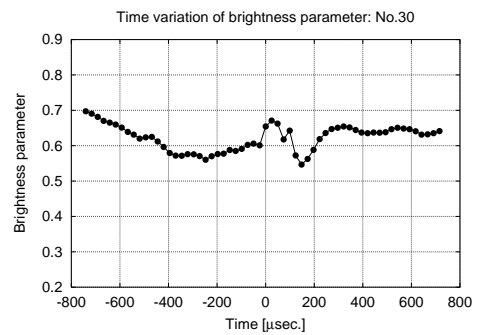
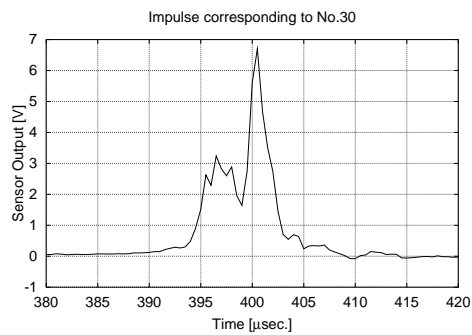
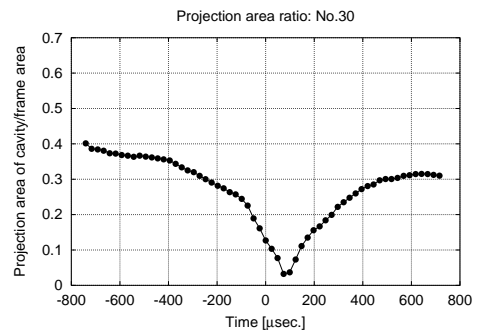
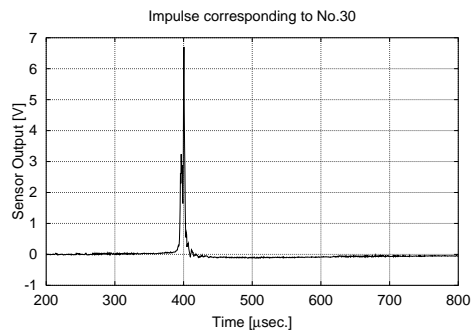
No.28 Impulsive force: 59.3 N
Collapsing type: Spherical

Fig. D.1: (continued)



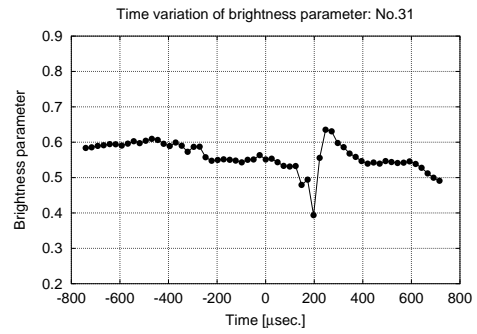
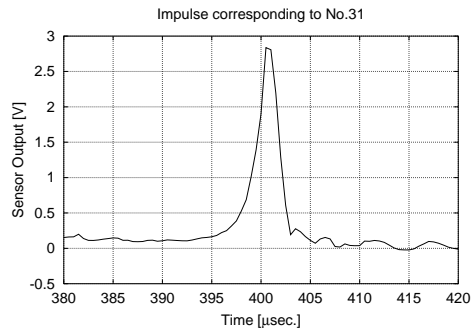
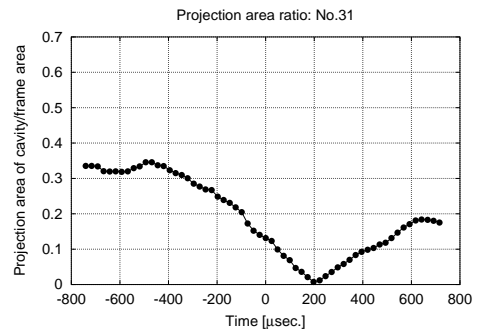
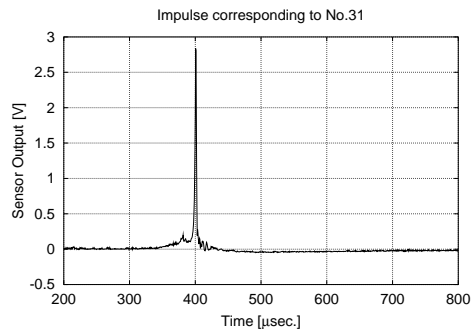
No.29 Impulsive force: 56.8 N
Collapsing type: Spherical

Fig. D.1: (continued)



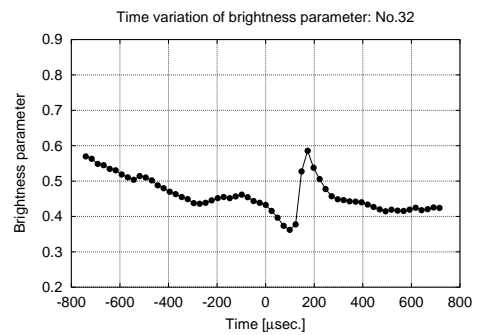
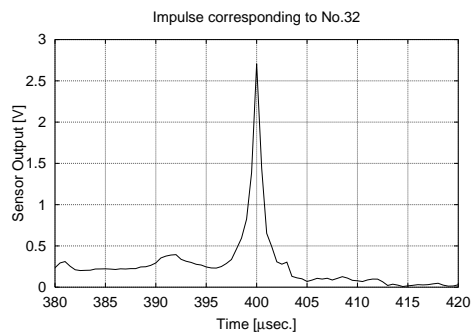
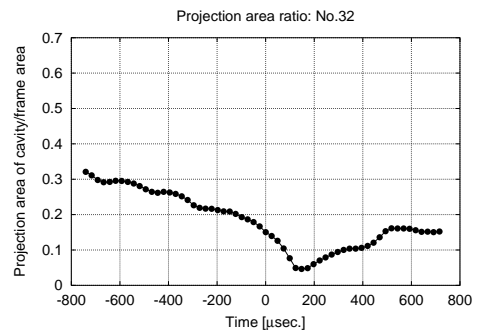
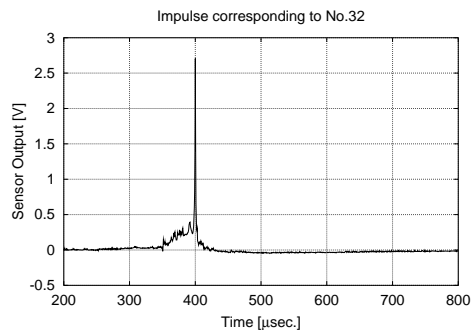
No.30 Impulsive force: 113.0 N
Collapsing type: Spherical

Fig. D.1: (continued)



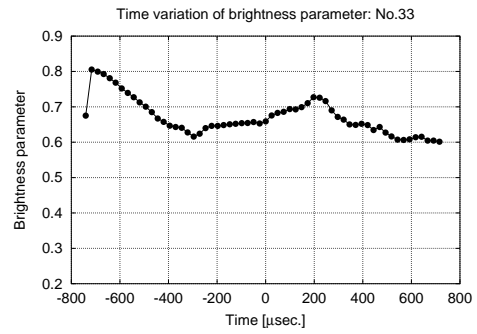
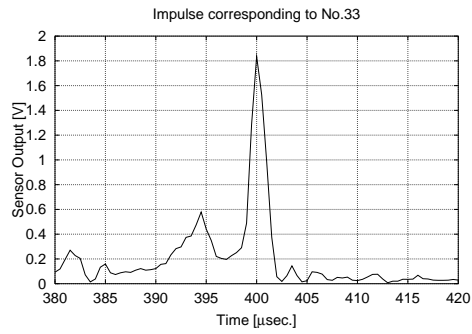
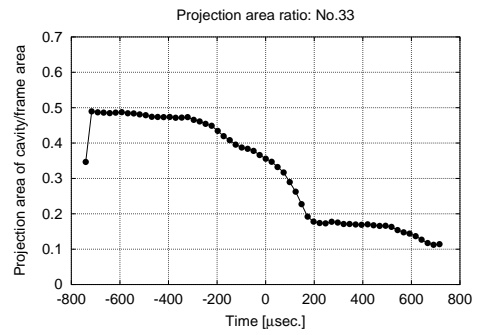
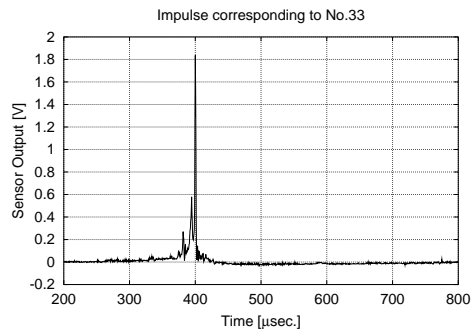
No.31 Impulsive force: 47.9 N
Collapsing type: Spherical

Fig. D.1: (continued)



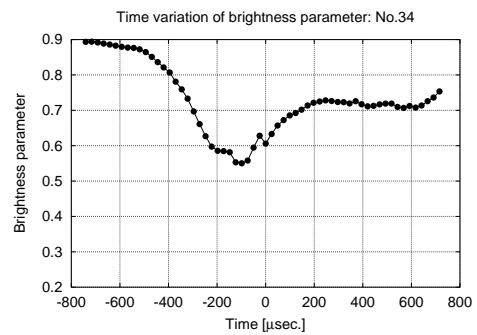
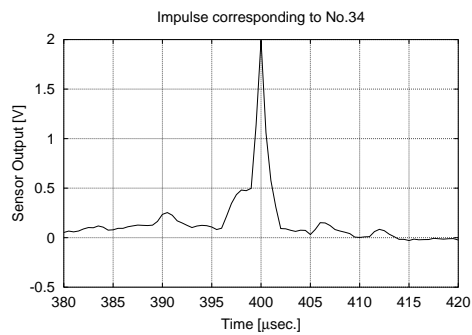
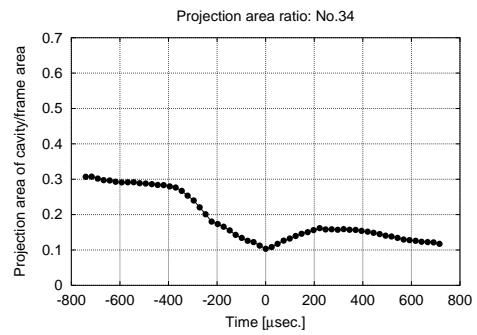
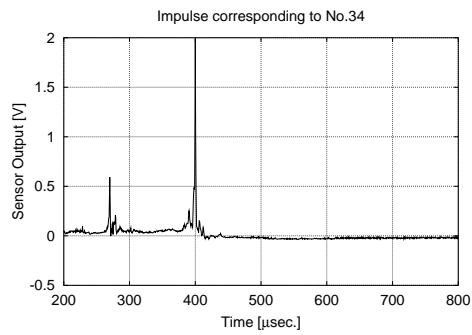
No.32 Impulsive force: 44.1 N
Collapsing type: Cylindrical

Fig. D.1: (continued)



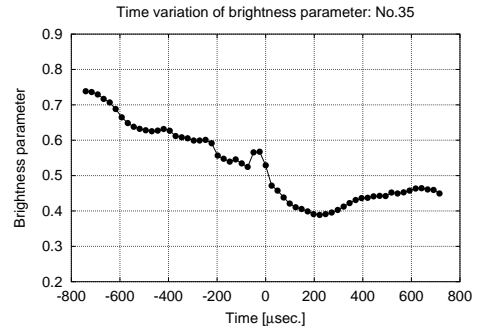
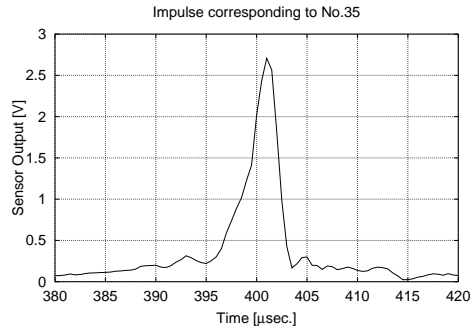
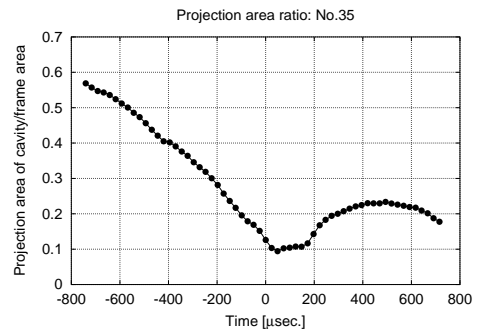
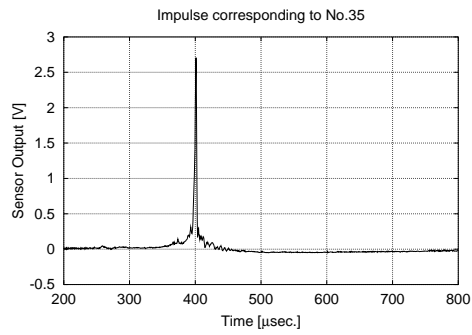
No.33 Impulsive force: 29.9 N
Collapsing type: Spherical

Fig. D.1: (continued)



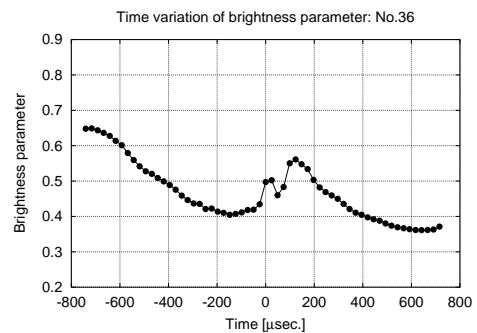
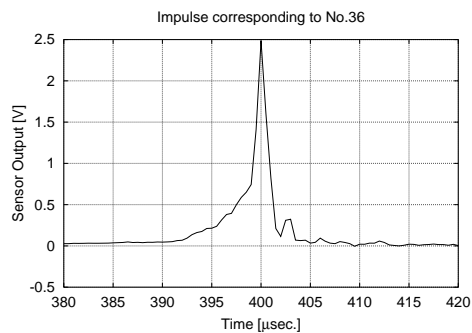
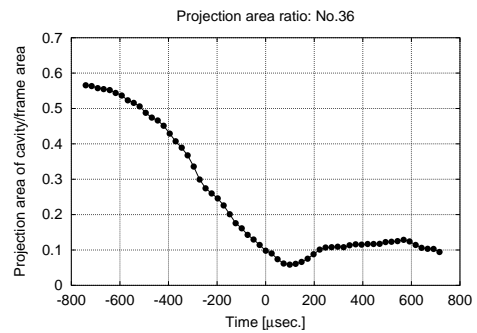
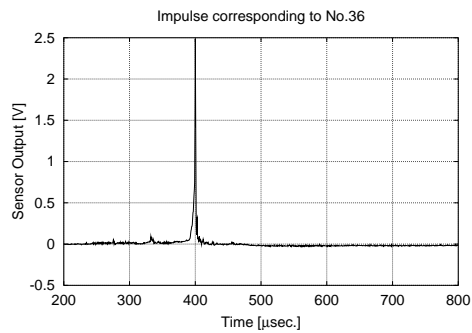
No.34 Impulsive force: 32.7 N
Collapsing type: Cylindrical

Fig. D.1: (continued)



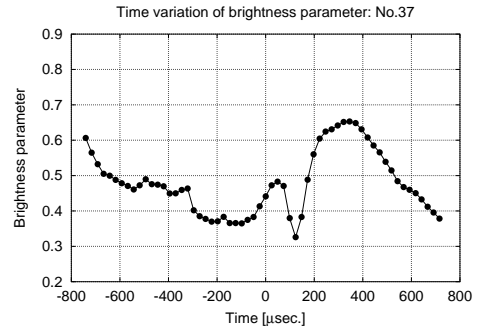
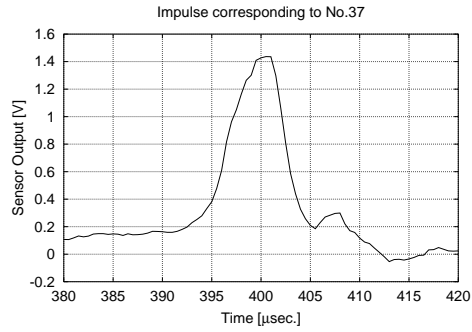
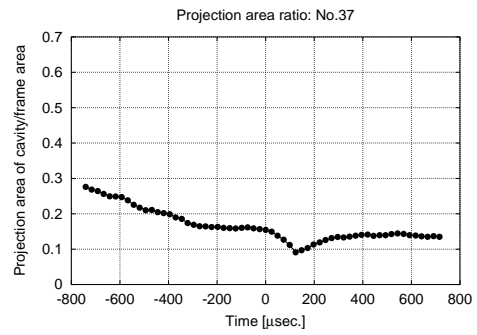
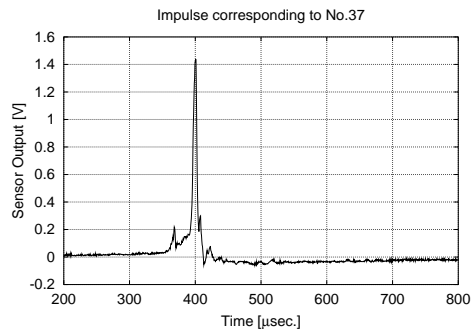
No.35 Impulsive force: 44.4 N
Collapsing type: Spherical

Fig. D.1: (continued)



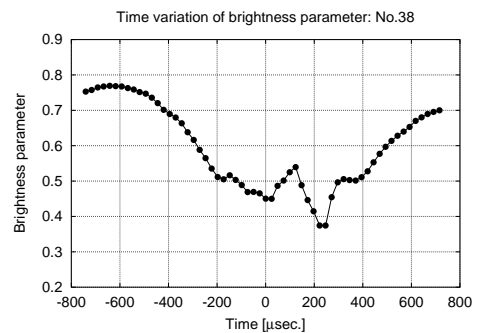
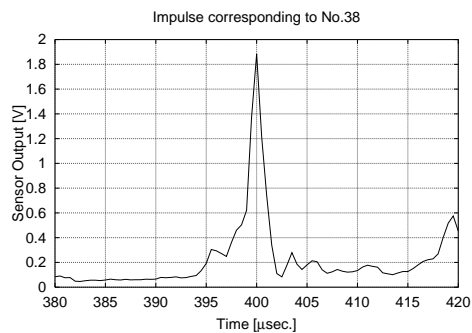
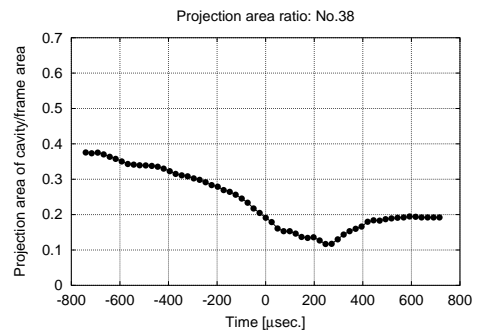
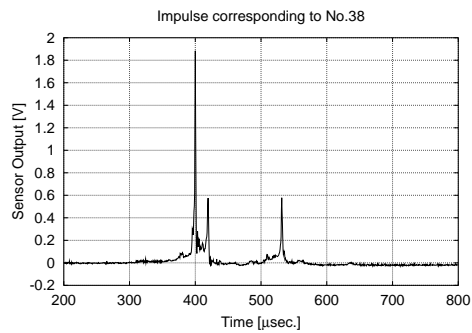
No.36 Impulsive force: 41.0 N
Collapsing type: Spherical

Fig. D.1: (continued)



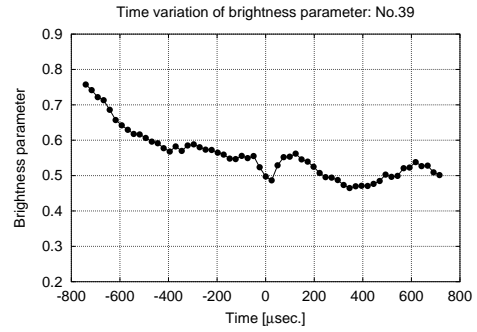
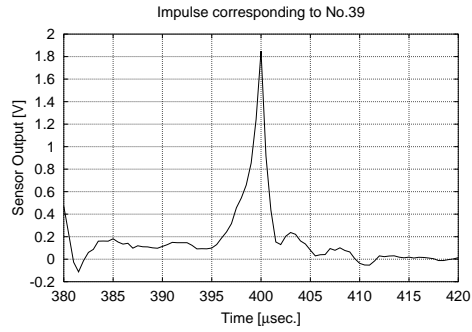
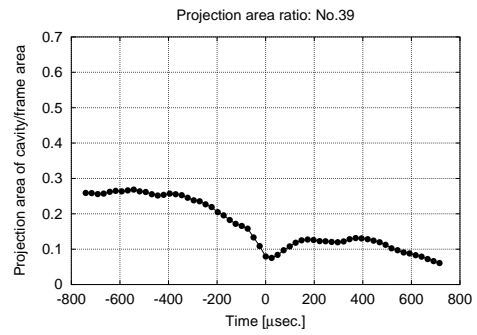
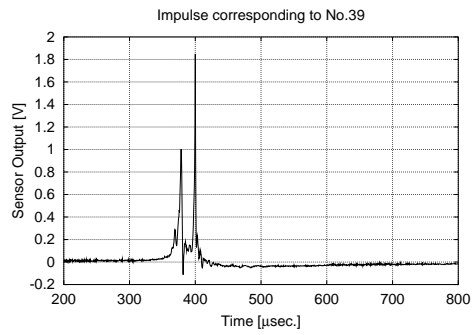
No.37 Impulsive force: 23.5 N
Collapsing type: Spherical

Fig. D.1: (continued)



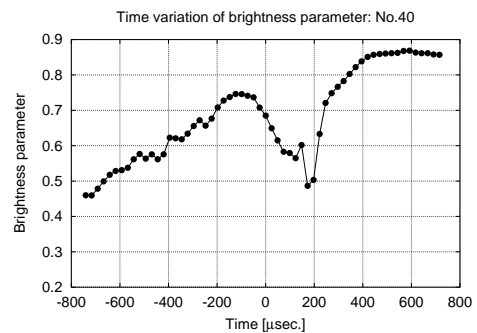
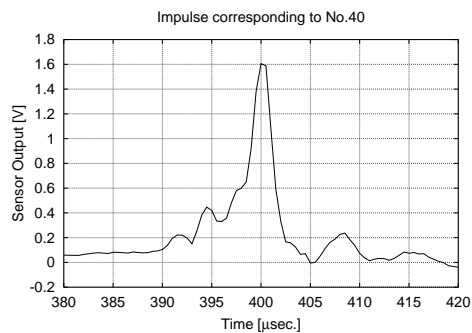
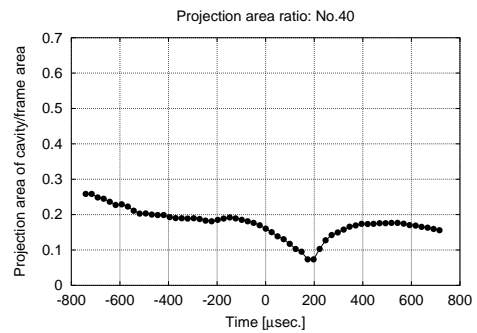
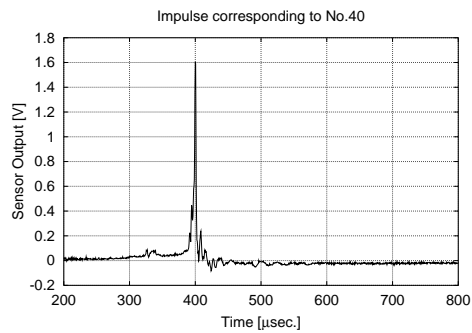
No.38 Impulsive force: 30.8 N
Collapsing type: Axial

Fig. D.1: (continued)



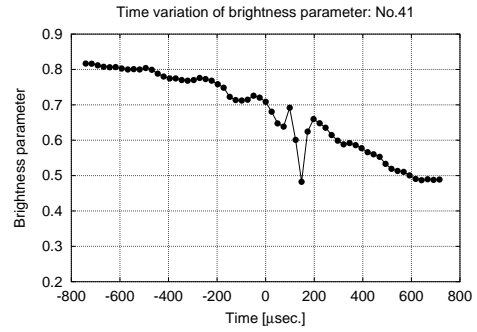
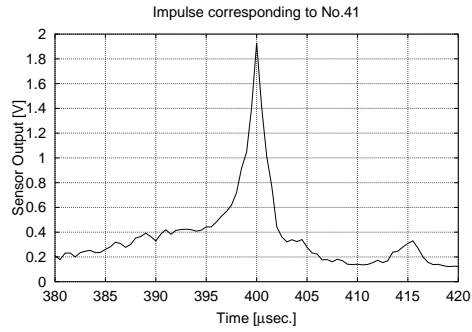
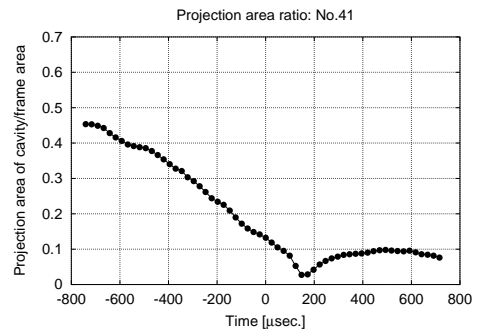
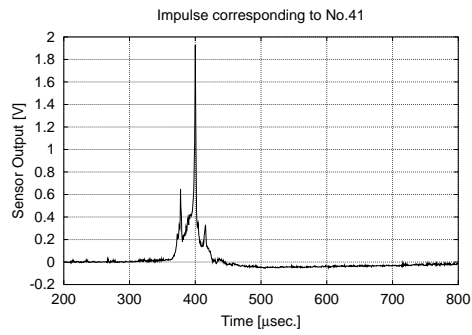
No.39 Impulsive force: 30.9 N
Collapsing type: Axial

Fig. D.1: (continued)



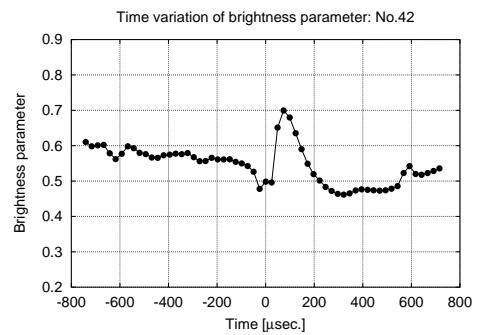
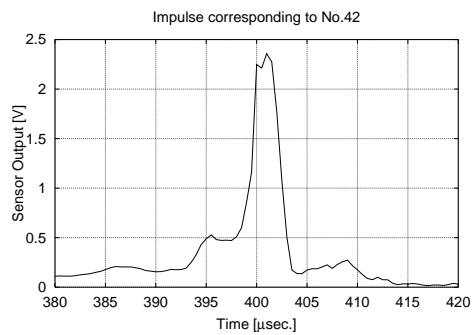
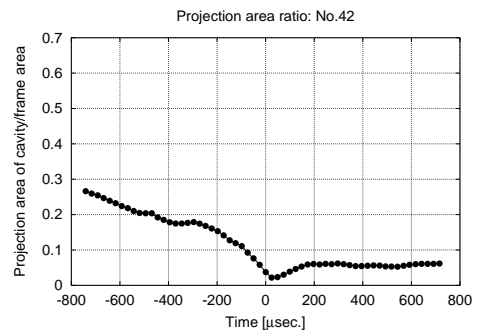
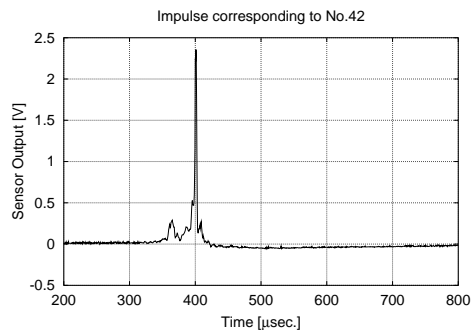
No.40 Impulsive force: 26.6 N
Collapsing type: Spherical

Fig. D.1: (continued)



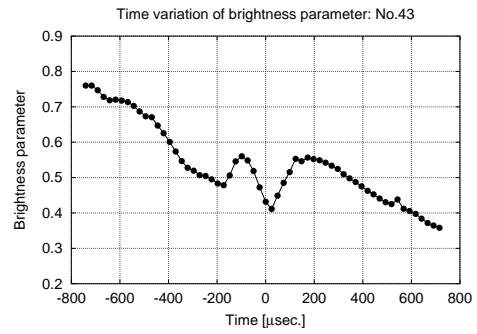
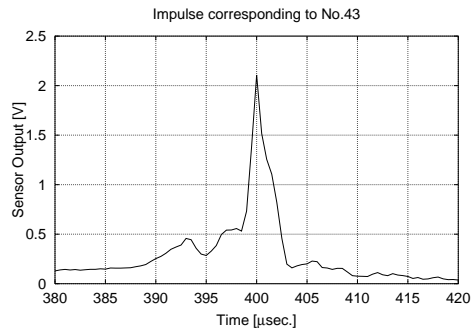
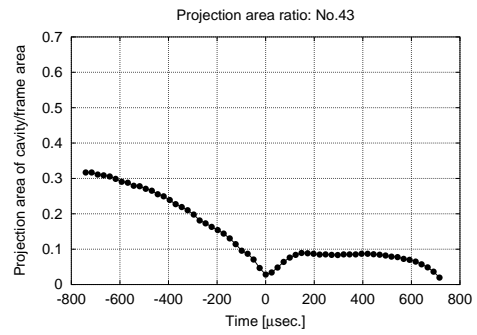
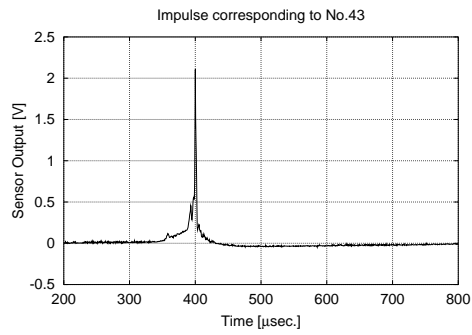
No.41 Impulsive force: 31.8 N
Collapsing type: Spherical

Fig. D.1: (continued)



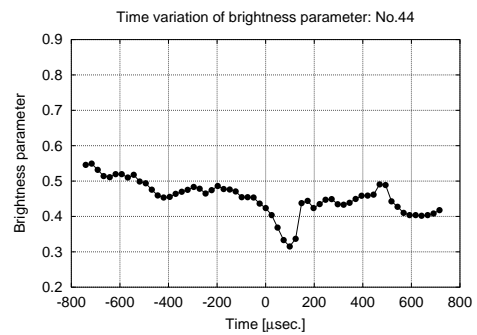
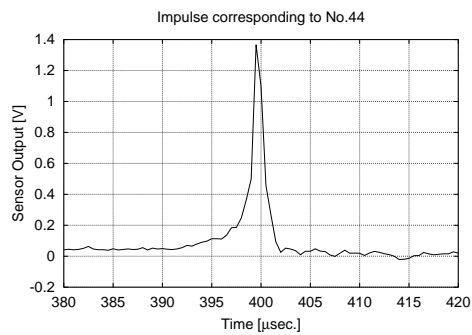
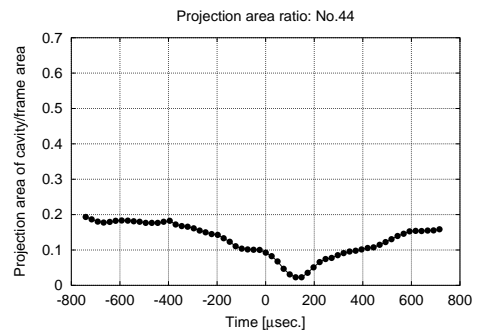
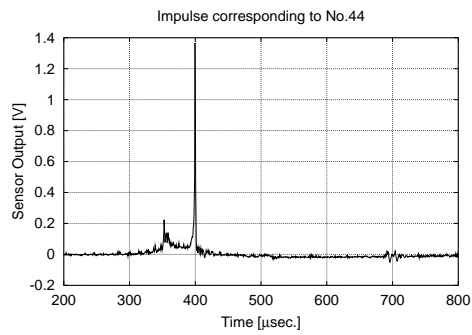
No.42 Impulsive force: 38.8 N
Collapsing type: Spherical

Fig. D.1: (continued)



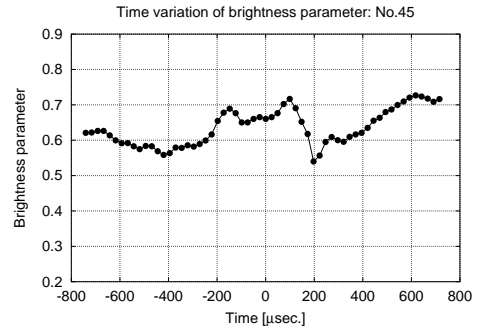
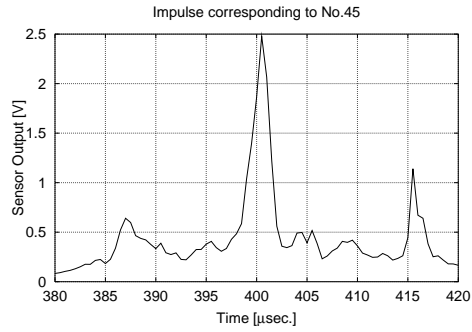
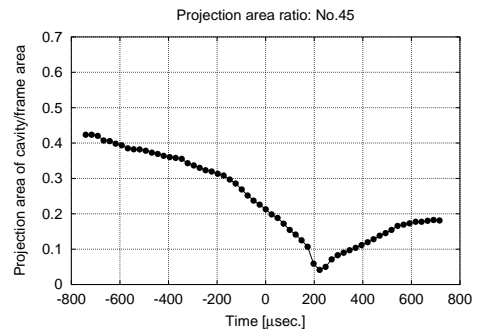
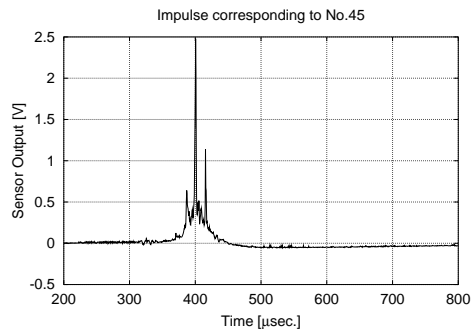
No.43 Impulsive force: 34.6 N
Collapsing type: Spherical

Fig. D.1: (continued)



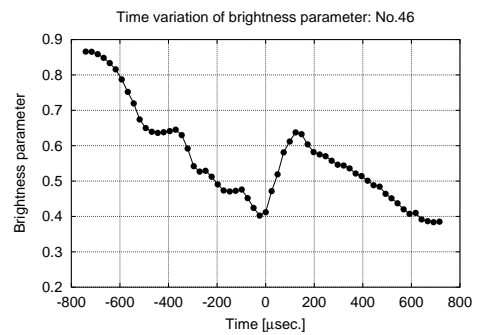
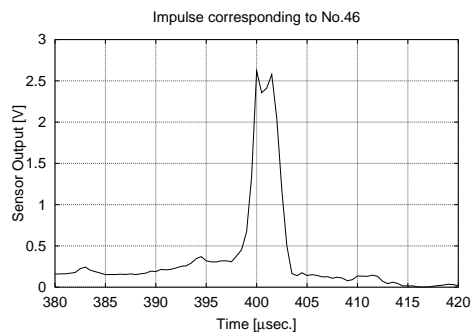
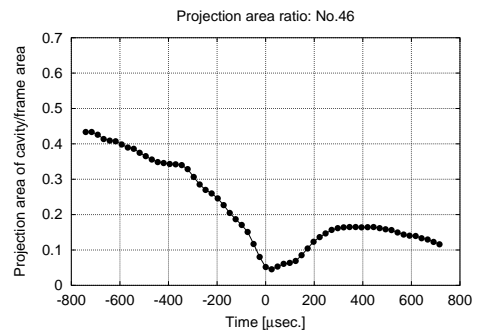
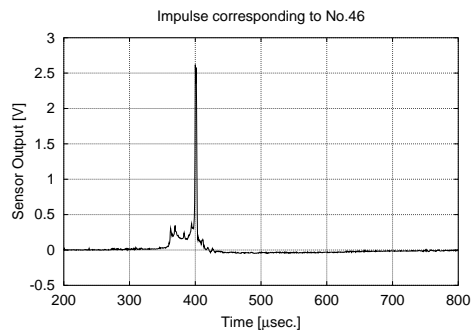
No.44 Impulsive force: 24.7 N
Collapsing type: Axial

Fig. D.1: (continued)



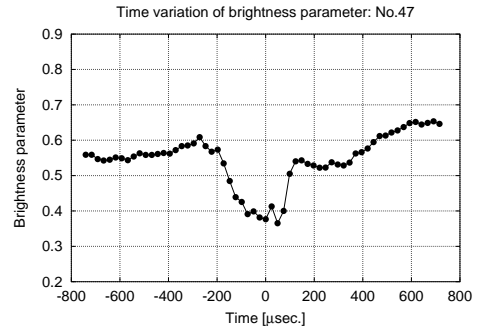
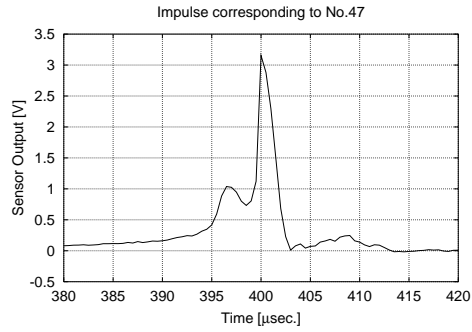
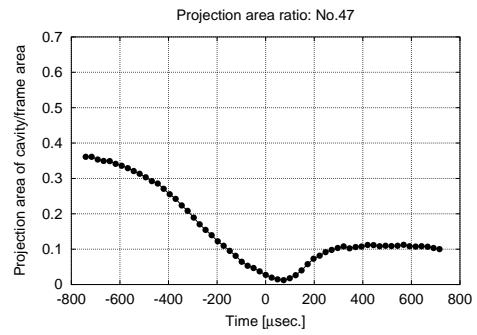
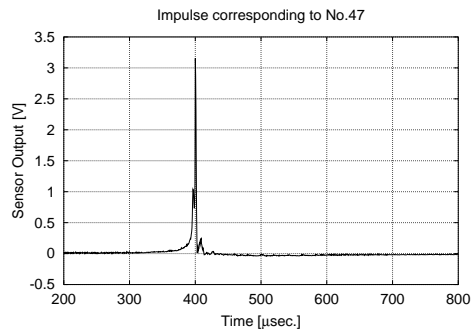
No.45 Impulsive force: 40.3 N
Collapsing type: Spherical

Fig. D.1: (continued)



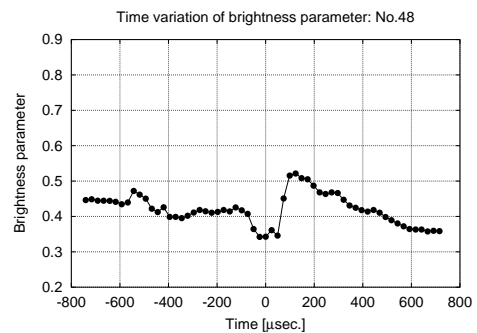
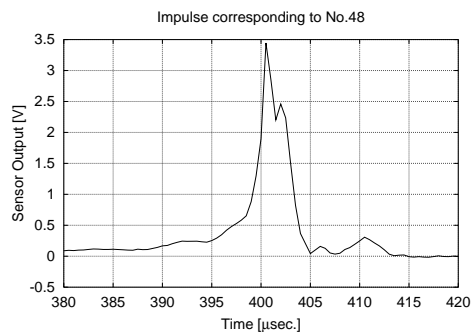
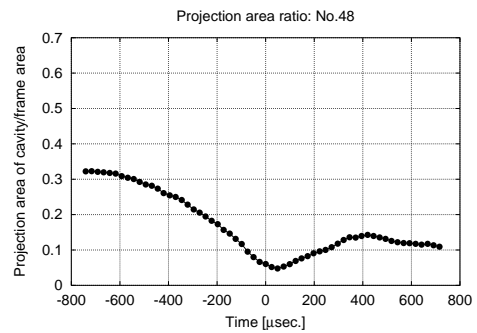
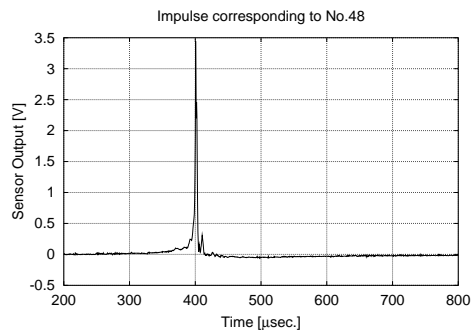
No.46 Impulsive force: 42.7 N
Collapsing type: Spherical

Fig. D.1: (continued)



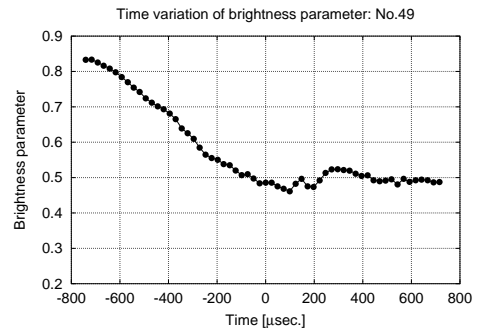
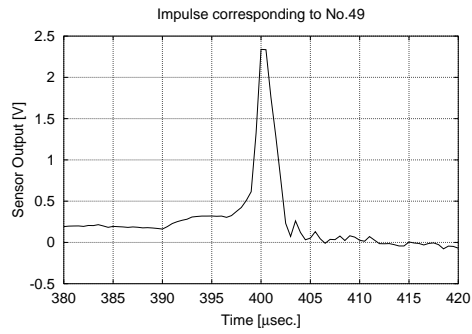
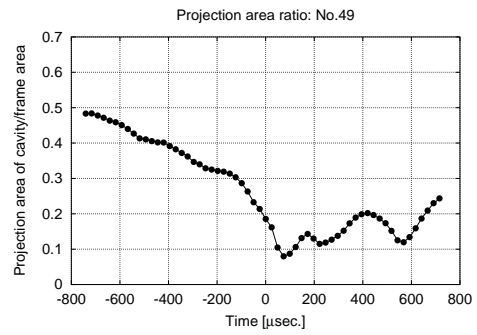
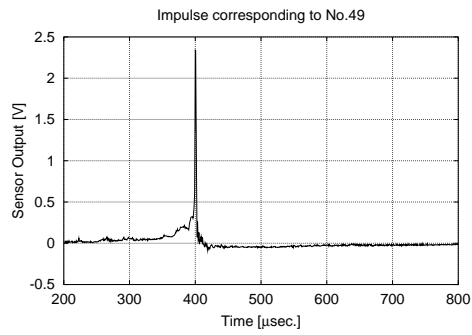
No.47 Impulsive force: 53.2 N
Collapsing type: Axial

Fig. D.1: (continued)



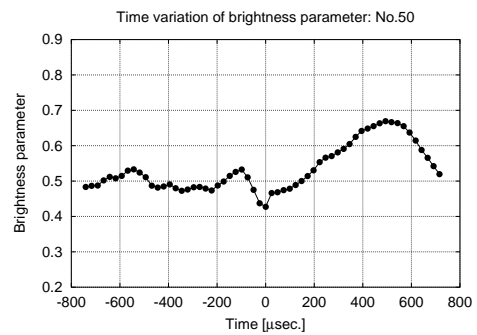
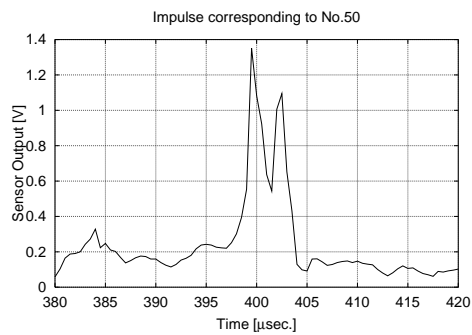
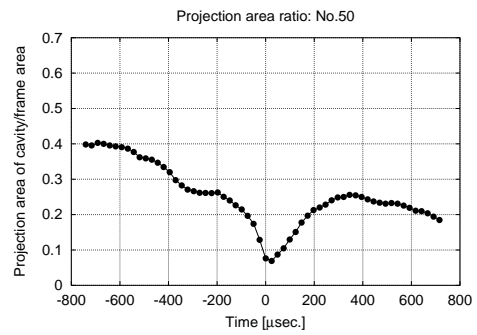
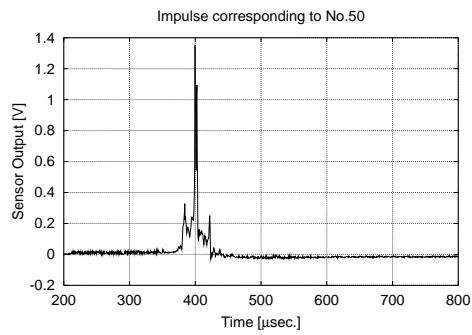
No.48 Impulsive force: 58.1 N
Collapsing type: Spherical

Fig. D.1: (continued)



No.49 Impulsive force: 39.9 N
Collapsing type: Spherical

Fig. D.1: (continued)



No.50 Impulsive force: 22.9 N
Collapsing type: Spherical

Fig. D.1: (continued)