

Electronic Supplementary Information

Characterizing nuclear materials hidden in lead containers by neutron-tomography-driven prompt gamma activation imaging (PGAI-NT)

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Table 1: The comparison of the true and determined dimensions of each item shown in Figure 4 a) and b).

<i>Items in Figure 4a)</i>	<i>Measured dimension (mm)</i>	<i>True dimension (mm)</i>
Aluminum cylinder diameter	9.9	10.0
Aluminum cylinder height	24.2	24.2
Copper balls	4.8	~5
Lead container internal diameter	29.4	30
Lead container wall thickness	6.1	6
Screw total height	20.3	20.6
Screw major diameter	7.8	7.9
Screw hex cap width	14.1	14.3
Screw hex cap wrench size	12.6	12.6
Screw hex cap height	5.4	5.3
U ₃ O ₈ powder width	20.6	~22
U ₃ O ₈ powder height	14.4	~15
U ₃ O ₈ powder thickness	4.6	~5
Volume of the U ₃ O ₈ powder	121 mm ³	

<i>Items in Figure 4b)</i>	<i>Measured dimension (mm)</i>	<i>True dimension (mm)</i>
642 pellet diameter	11.4	11.5
642 pellet height	14.1	14.0
643 pellet diameter	5.9	5.8
643 pellet height	10.3	10.0
644 pellet diameter	11.9	11.5
644 pellet height	13.0	12.9
644 pellet through hole diameter	2.35	~2.5
595 pellet diameter	12.2	12.1
595 pellet height	13.5	13.3