ALPHA PARTICLE RANGE & ENERGY LOSS

DBP

ADDITIONAL DATA

PRESSURE TRANSDUCER CALIBRATION

$P_{ATM} = 768.7$ mm Hg, 20°C ON 3 DEC 2020

$V_{ATM} = 5.070$ V

$P_{VACUUM} = 0$ (DEFINED)

$V_{VACUUM} = -0.024$ V

DATA SETS MCA COUNTING TIME = 300 s REAL TIME

N2_data.CSV
Ar_data.CSV
} TAKEN DEC 2019

FOR THESE, SOURCE-DETECTOR DISTANCE = 43.0 ± 0.5 mm

ROOM TEMPERATURE = 22°C

Air_data.CSV
He_data.CSV
} TAKEN DEC 2020

FOR THESE SOURCE-DETECTOR DISTANCE = 45.0 mm

ROOM TEMPERATURE = 20°C

ORTEC 575A GAIN = 4.90 (FINE) × 10 (COARSE)

DETECTOR BIAS VOLTAGE = +35.00 ± 0.01 V