



Certificate of Calibration

Calibration and Voltage Plateau

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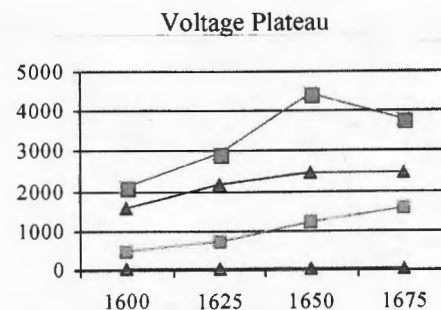
Meter: Manufacturer: Ludlum Model Number: 2360 Serial Number: 145481
Detector: Manufacturer: Ludlum Model Number: 43-37 Serial Number: PR178371

☒ Mechanical Check ☒ THR/WIN Operation HV Check (+/- 2.5%): ☒ 500 V ☒ 1000 V ☒ 1500 V
☐ F/S Response Check ☒ Reset Check Cable Length: ☐ 39-inch ☐ 72-inch ☒ Other: 60"
☒ Geotropism ☒ Audio Check
☒ Meter Zeroed ☒ Battery Check (Min 4.4 VDC) Alpha Threshold: 100 mV Barometric Pressure: 24.45 inches Hg
Source Distance: ☒ Contact ☐ 6 inches ☐ Other: Beta Threshold: 4 Temperature: 70 °F
Source Geometry: ☐ Side ☒ Below ☐ Other: Beta Window: 40 mV Relative Humidity: 20 %

Instrument found within tolerance: ☒ Yes ☐ No

Range/Multiplier	Reference Setting	"As Found Reading"	Meter Reading	Integrated 1-Min. Count	
				α	β
x 1000	400 Kcpm	400	400	398751	398764
x 1000	100 Kcpm	100	100		
x 100	40 Kcpm	400	400	39878	39880
x 100	10 Kcpm	100	100		
x 10	4 Kcpm	400	400	3988	3989
x 10	1 Kcpm	100	100		
x 1	400 cpm	400	400	399	399
x 1	100 cpm	100	100		

High Voltage	Alpha Source		Beta Source		Background	
	α	β	α	β	α	β
1600	1589	1290	31	2627	27	480
1625	2233	1551	34	3709	31	761
1650	2493	1971	29	5656	31	1220
1675	2499	2278	60	5403	27	1587



Background Alpha Background Beta
Net Alpha Net Beta

Comments: HV Plateau Scaler Count Time = 1 min. Recommended HV = 1650 @ 5000'

Reference Instruments and/or Sources:

Ludlum pulser serial number: ☐ 97743 ☒ 201932

Fluke multimeter serial number ☒ 87490128

☒ Alpha Source: Th-230 (s/n 4098-03) 12,800 dpm on 1/4/12

☐ Gamma Source Cs-137 @ 5.2 uCi (1/4/12) sn: 4097-03

☒ Beta Source: Tl-204 (sn: 4099-03) 17,700 dpm on 1/4/12

☐ Other Source:

Calibrated By:

Calibration Date: 5-17-16

Calibration Due: 5-17-17

Reviewed By:

Date: 5/17/16

ERG Form ITC. 101.C

This calibration conforms to the requirements and acceptable calibration conditions of ANSI N323A - 1997