



# Certificate of Calibration

Calibration and Voltage Plateau

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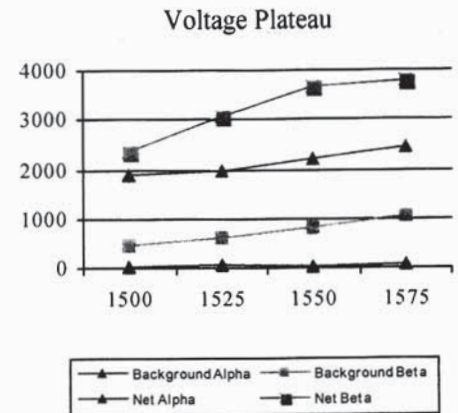
Meter: Manufacturer: Ludlum Model Number: 2360 Serial Number: 278586  
 Detector: Manufacturer: Ludlum Model Number: 43-37 Serial Number: PR216982

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: 24.33 inches Hg  
Source Distance:  Contact     6 inches     Other:      Beta Threshold: 4              Temperature: 75 °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	
				$\alpha$	$\beta$
x 1000	400 Kcpm	400	400	399312	399321
x 1000	100 Kcpm	100	100		
x 100	40 Kcpm	400	400	39940	39943
x 100	10 Kcpm	100	100		
x 10	4 Kcpm	400	400	3995	3995
x 10	1 Kcpm	100	100		
x 1	400 cpm	400	400	400	399
x 1	100 cpm	100	100		

High Voltage	Alpha Source		Beta Source		Background	
	$\alpha$	$\beta$	$\alpha$	$\beta$	$\alpha$	$\beta$
1500	1972	1270	79	2880	55	493
1525	2086	1390	125	3700	91	618
1550	2249	1523	115	4496	50	828
1575	2546	2005	102	4889	82	1085



Comments: HV Plateau Scaler Count Time = 1 min. Recommended HV = 1550 @ 5200'

### Reference Instruments and/or Sources:

Ludlum pulser serial number:  97743     201932  
 Alpha Source: Th-230 (s/n 4098-03) 12,800 dpm on 1/4/12  
 Beta Source: ~~Th-230~~ (sn: 4099-03) 17,700 dpm on 1/4/12

Fluke multimeter serial number  87490128  
 Gamma Source Cs-137 @ 5.2 uCi (1/4/12) sn: 4097-03  
 Other Source:

Calibrated By:   
 Reviewed By:

Calibration Date: 3.22.17      Calibration Due: 3.22-18  
 Date: 3/22/17

ERG Form ITC. 101.C

This calibration conforms to the requirements and acceptable calibration conditions of ANSI N323.A - 1997