**DISCOVERAD LABORATORY TESTSHEET**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| REFERENCES | | | | | | | | | | | | | | | |
| PRODUCT NAME | | | | | | ***DiscoveRAD*** | | | | | | | | | |
| PRODUCT CODE | | | | | | ***WSRAD501AAAA*** | | | | | | | | | |
| SOFTWARE VERSION | | | | | | ***12345*** | | | | | | | | | |
| PRODUCT IDENTIFICATION | | | | | | **CAEN PID S/N** | | | | | | | | | | |
| 21470 | | | | | | | | | | |
| **INDEX OF PERFORMED TESTS** | | | | | | | | | | | | | | | |
| COMPONENTS CHECKLIST | | | | | | | | | | | | ***PASSED*** | | | |
| FUNCTIONAL TESTS | | | | | | | | | | | | ***PASSED*** | | | |
| IDENTIFICATION TEST | | | | | | | | | | | | ***PASSED*** | | | |
| AMBIENT DOSE EQUIVALENT | | | | | | | | | | | | ***PASSED*** | | | |
| DOSE RATE TEST | | | | | | | | | | | | ***PASSED*** | | | |
| NEUTRON STATIC TEST | | | | | | | | | | | | ***PASSED*** | | | |
| **DATE** | | | | | | | | | | **SITE** | | | | | |
| 7/24/2025 | | | | | | | | | | CAEN SyS Laboratory | | | | | |
| **SIGNATURE** | | | | | | | | | | | | | | | |
| **Test department operator**  *Simone Ciurli*  **Immagine che contiene testo  Descrizione generata automaticamente** | | | | | | | | | | | | | | | |
| COMPONENTS CHECKLIST | | | | | | | | | | | | | | | |
| **ITEM** | | **OUTCOME** | | | | | | **ITEM** | | | | | **OUTCOME** | | | |
| WRIST LANYARD | | ** | | | | | | AC/DC PLUG | | | | | ** | | | |
| BELT HOLSTER | | ** | | | | | | MANUAL | | | | | ** | | | |
| 2x USB CABLES | | ** | | | | | |  | | | | |  | | | |
| **Battery 1 PID** | | **OUTCOME** | | | | | | **Battery 2 PID** | | | | | **OUTCOME** | | | |
| 12345 | | ** | | | | | | 67890 | | | | | ** | | | |
| FUNCTIONAL TESTS | | | | | | | | | | | | | | | |
| SPECTRUM STABILIZATION | | | | ** | | | | | | | | | | | |
| FINDER MODE | | | | ** | | | | | | | | | | | |
| * VISUAL ALARM | | | | ** | | | | | | | | | | | |
| * AUDIO ALARM | | | | ** | | | | | | | | | | | |
| * VIBRATION ALARM | | | | ** | | | | | | | | | | | |
| CALIBRATION CHECK | | | | ** | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| EASY FINDER MODE | | | | ** | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| WI-FI CONNECTION | | | | ** | | | | | | | | | | | |
| WEB INTERFACE | | | | ** | | | | | | | | | | | |
| IDENTIFICATION TEST | | | | | | | | | | | | | | | |
| **SOURCE** | | | **ACTIVITY** | | | | | | **REF. DATE** | | | | | **DISTANCE (cm)** | | |
| *Cs-137* | | | *327.90 kBq* | | | | | | *24/7/2025* | | | | | 30 | | |
| *Am-241* | | | 409.90 kBq | | | | | | *24/7/2025* | | | | | 35 | | |
| *Co-60* | | | 7.44 kBq | | | | | | *24/7/2025* | | | | | 5 | | |
| NOTE | | | | | | Am-241, Cs-137 and Co-60 sources are positioned to trigger a gamma alarm | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| AMBIENT DOSE EQUIVALENT H\*(10) TEST | | | | | | | | | | | | | | | |
| NOTE | | | | | | After the warm-up of the system, with no sources around, check the average dose rate | | | | | | | | | |
| BACKGROUND DOSE RATE (µSv/h\*) | | | | | | 0.042 | | | | | | | | | |
| **SOURCE** | | | | | **ACTIVITY** | | | | | | **REF. DATE** | | | | |
| *Cs-137* | | | | | *9 MBq* | | | | | | *18/07/2022* | | | | |
| **DISTANCE (cm)** | **MEASURED AMBIENT DOSE - BKG (µSv/h\*)** | | | | | | **ACCEPTABLE AMBIENT DOSE RANGE (µSv/h\*)  (MIN – MAX)** | | | | | | | | **OUTCOME** | |
| 30 | **0.724** | | | | | | 0.194 – 0.361 | | | | | | | | *O* | |
| 50 | **0.248** | | | | | | 0.070 – 0.130 | | | | | | | | ** | |
| 80 | **0.074** | | | | | | 0.027 – 0.051 | | | | | | | | ** | |
| NEUTRON STATIC TEST | | | | | | | | | | | | | | | |
| NOTE | | | | | | Cf-252 source is positioned to trigger a neutron alarm | | | | | | | | | |
|  | | | | | | | | | | | | | | | |