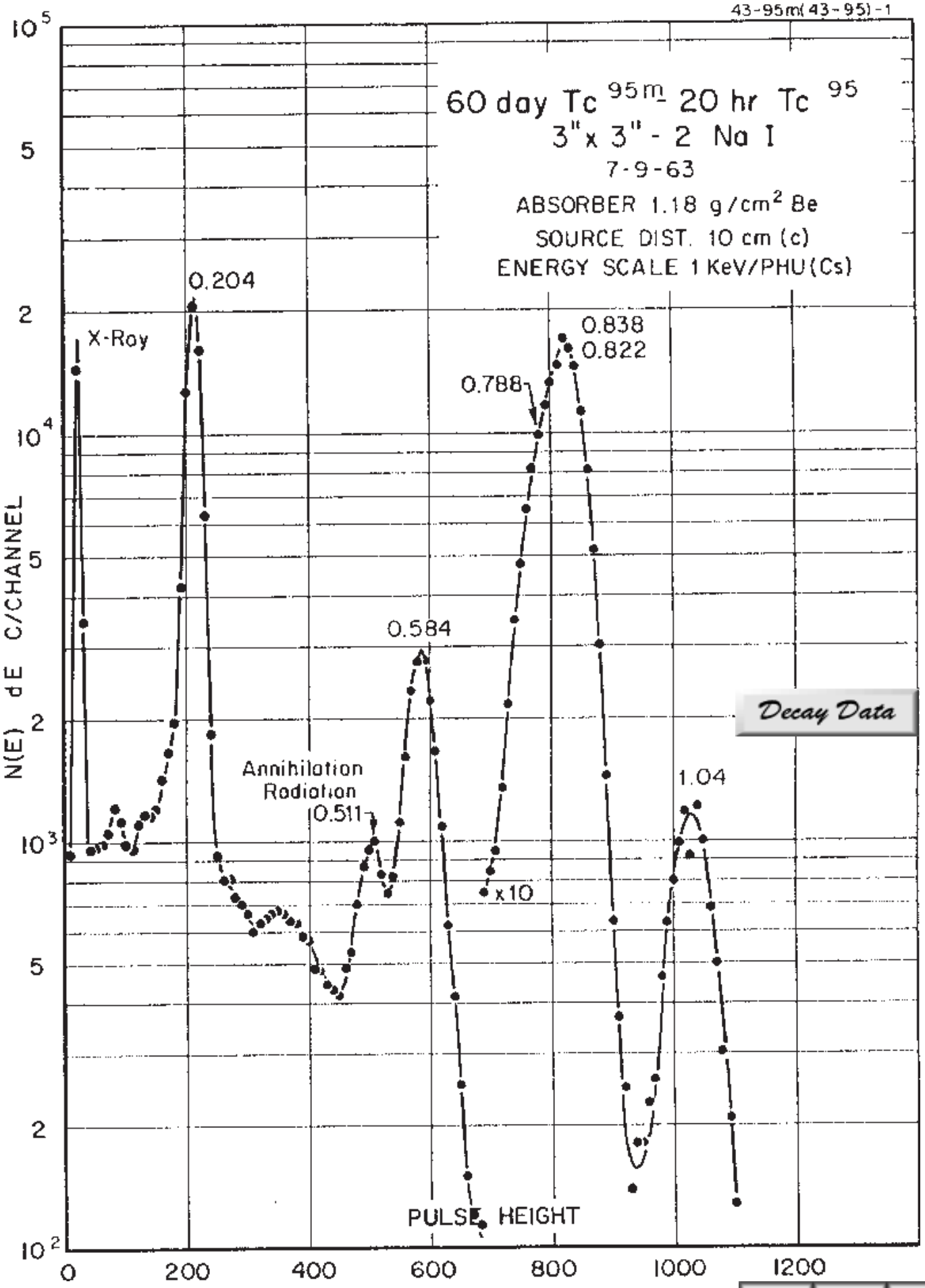


Decay Data

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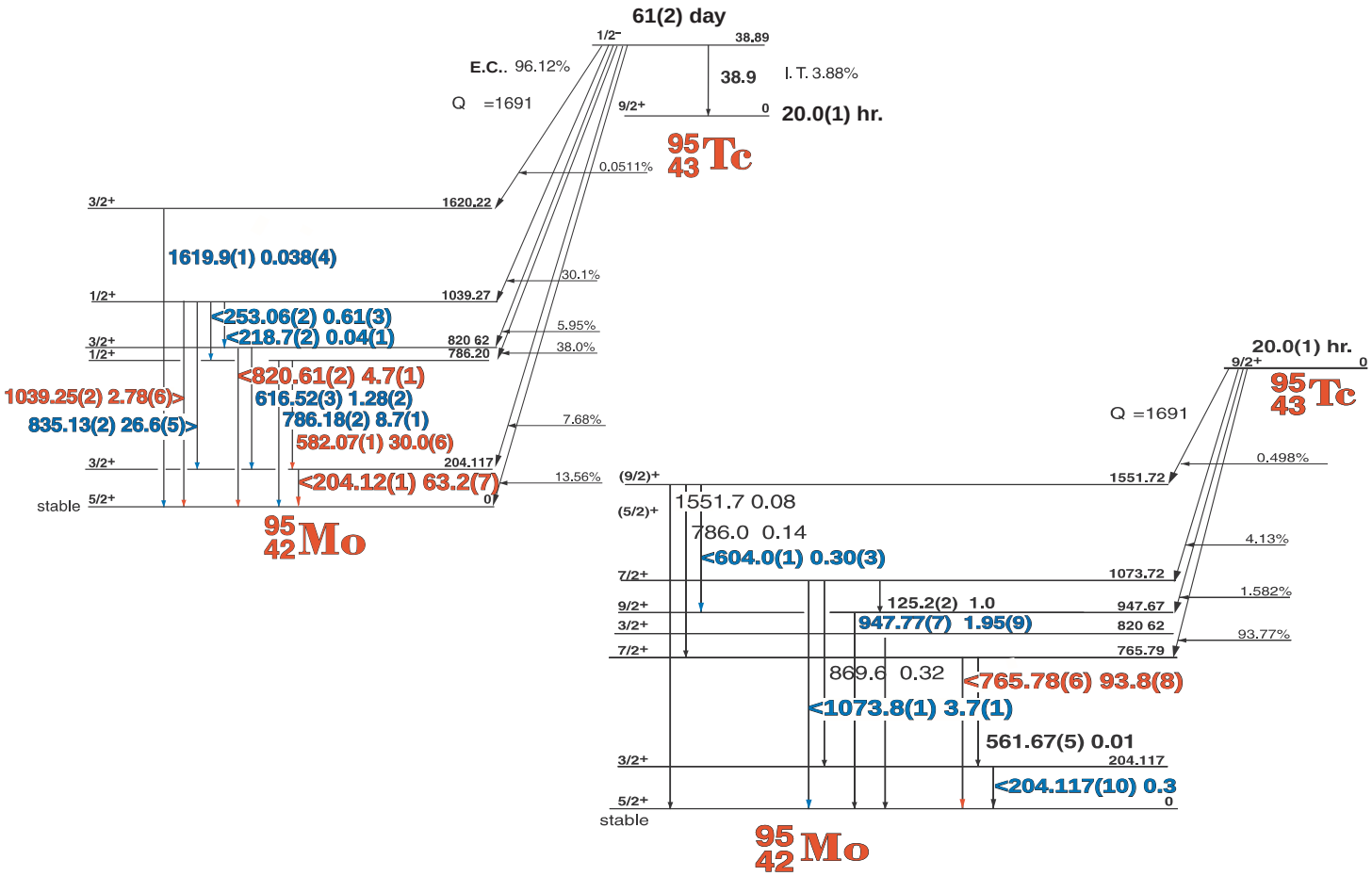
# 61(2) day $Tc^{95m}$ - 20.0(1) hr. $Tc^{95}$ Decay Scheme




43-95m(43-95)-1

## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide $Tc^{95m}$ -$Tc^{95}$ Half Life 61 Day ( 20.0 Hr.)
Detector 3" x 3" -2 NaI Method of Production: $Ru^{96}(\gamma,n,K)$

| | $E_\gamma$(KeV)[S] | $\Delta E_\gamma$ | $I_\gamma$(rel) | $I_\gamma$(%)[E] | $\Delta I_\gamma$ | S |
|---|---|---|---|---|---|---|
| $^{95m}$Tc | | | | | | |
| | 204.117 | ± 0.010 | 100 | 63.2 | ± 0.7 | 1 |
| | 218.7 | ± 0.2 | 0.06 | 0.04 | ± 0.01 | 4 |
| | 253.064 | ± 0.020 | 0.95 | 0.61 | ± 0.3 | 3 |
| | 582.068 | ± 0.013 | 49.6 | 30.0 | ± 0.6 | 1 |
| | 616.516 | ± 0.030 | 2.23 | 1.28 | ± 0.02 | 2 |
| $^{95}$Tc | 765.786 | ± 0.019 | 5.7 | 3.6 | ± 0.3 | 1 |
| | 786.184 | ± 0.017 | 14.5 | 8.7 | ± 0.1 | 1 |
| | 820.608 | ± 0.019 | 7.9 | 4.7 | ± 0.1 | 1 |
| | 835.132 | ± 0.018 | 44.9 | 26.6 | ± 0.5 | 1 |

| $E_\gamma$(KeV)[S] | $\Delta E_\gamma$ | $I_\gamma$(rel) | $I_\gamma$(%)[E] | $\Delta I_\gamma$ | S |
|---|---|---|---|---|---|
| $^{95}$Tc | | | | | |
| 604.0 | ± 0.1 | | 0.30 | 0.03 | 5 |
| 765.786 | ± 0.019 | 100 | 93.8 | ± 0.8 | 1 |
| 947.77 | ± 0.07 | 2.10 | 1.05 | ± 0.09 | 4 |
| 1073.80 | ± 0.12 | 3.9 | 3.7 | ± 0.1 | 3 |

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