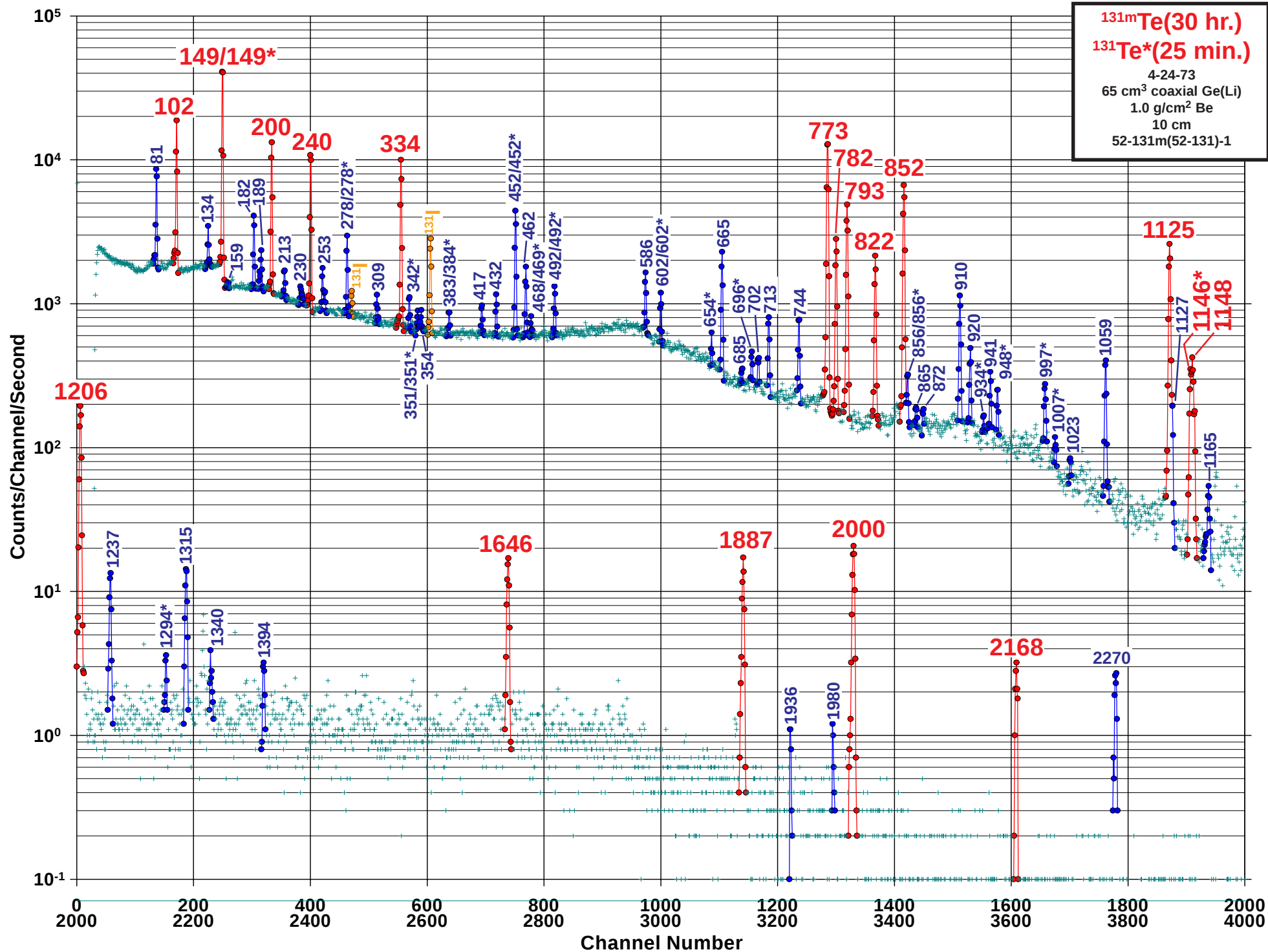
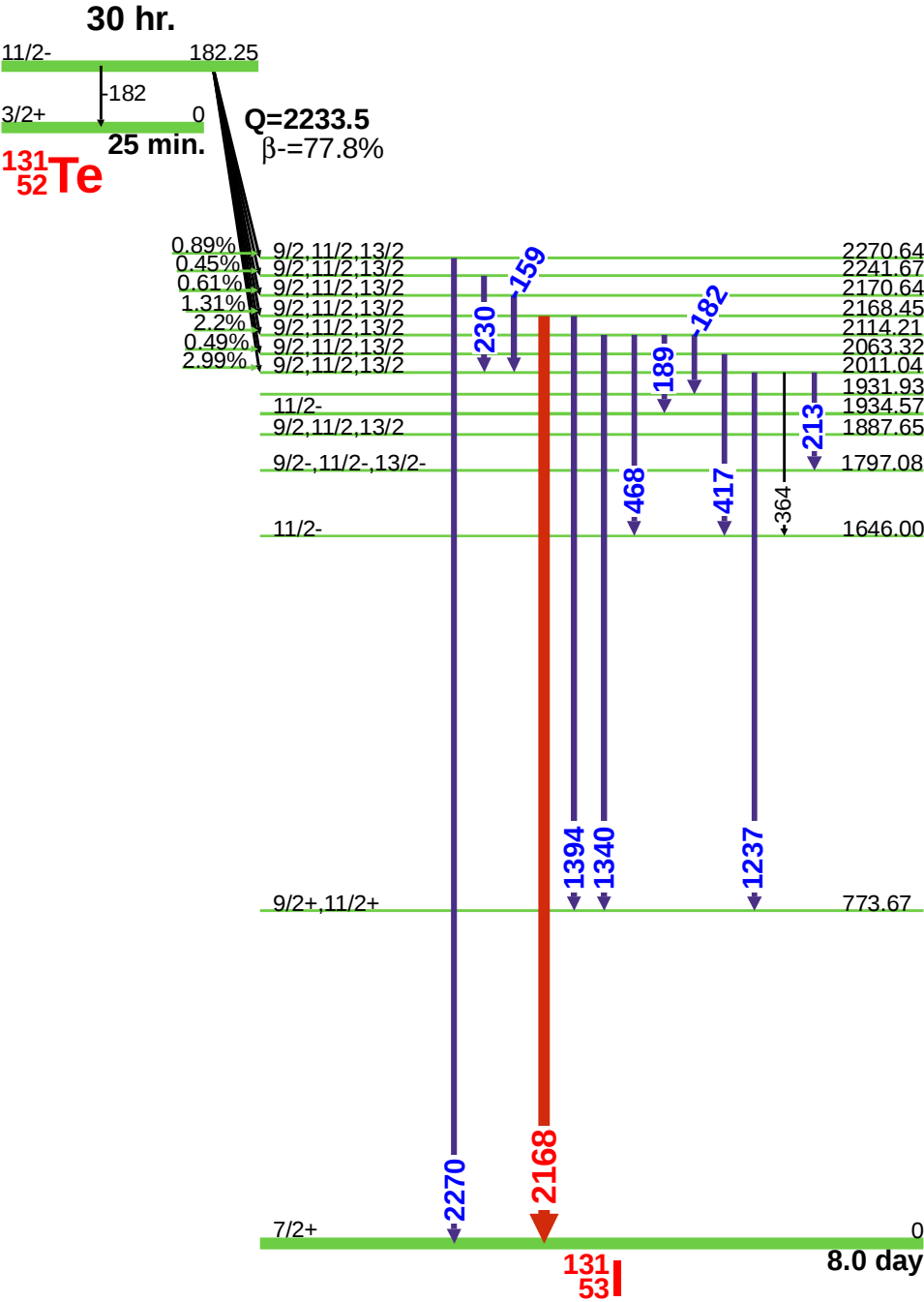




**$^{131m}\text{Te}$ (30 hr.) Decay Scheme**

gamma-rays emitted from high energy levels



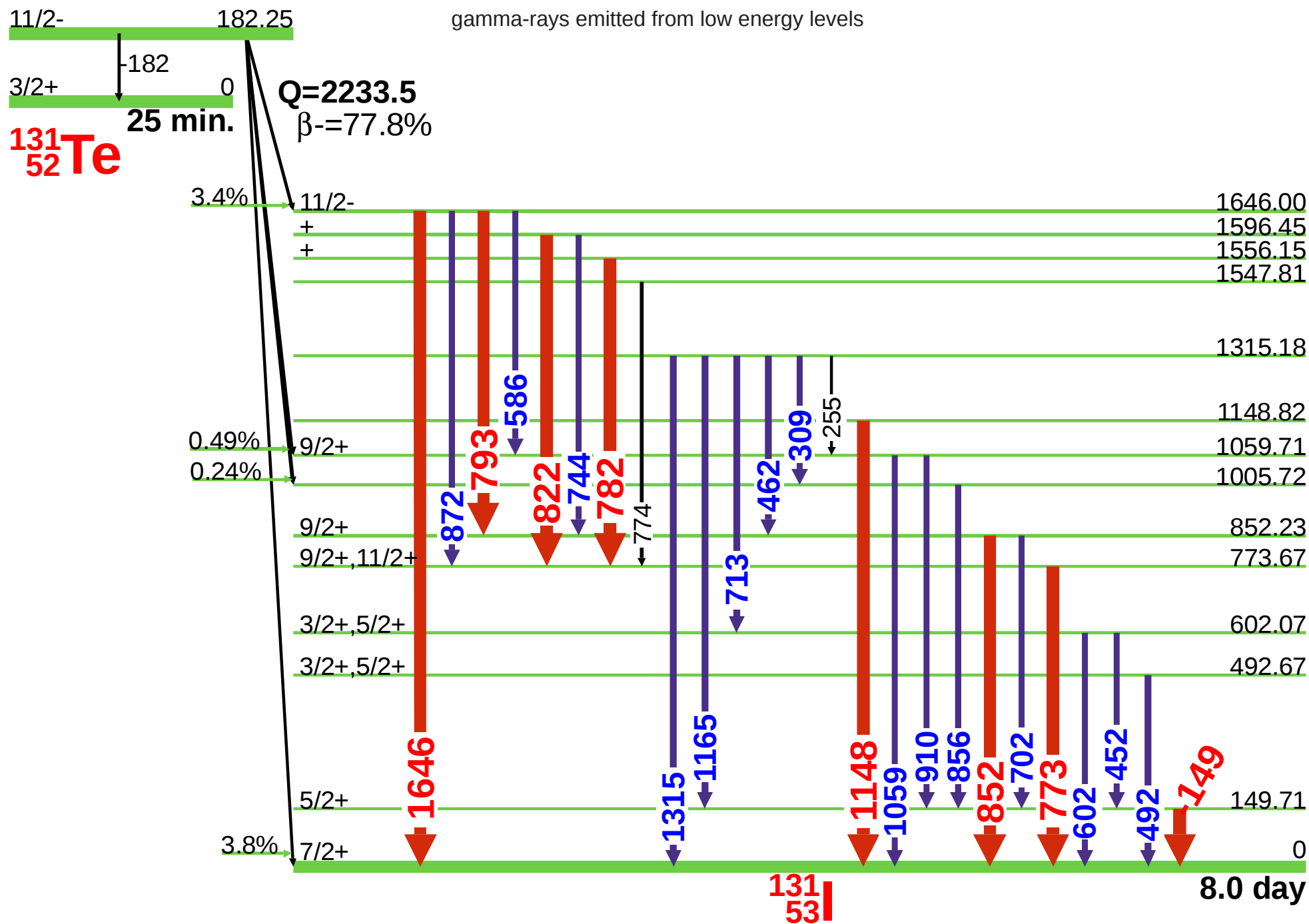
gamma-rays emitted from medium energy levels



30 hr.

 $^{131m}\text{Te}$ (30 hr.) Decay Scheme

gamma-rays emitted from low energy levels



# GAMMA-RAY ENERGIES AND INTENSITIES (page 1 of 3)

Nuclide:  $^{131m}\text{Te}$  $E_\gamma$ ,  $\sigma E_\gamma$ ,  $I_\gamma$ ,  $\sigma I_\gamma$  - 1998 ENSDF Data

Half Life: 30(2) hr.

Detector: 65 cm<sup>3</sup> coaxial Ge (Li)Method of Production:  $^{130}\text{Te}(n,\gamma)$ 

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 36.83            | 0.03              |                  | 0.0157         | 0.0020            | 4 |
| 51.00            | 0.05              |                  | 0.0081         | 0.0020            | 4 |
| 52.59            | 0.06              |                  | 0.0071         | 0.0020            | 4 |
| 54.10            | 0.10              |                  | 0.0015         | 0.0010            | 4 |
| 55.80            | 0.10              |                  | 0.0036         | 0.0015            | 4 |
| 60.84            | 0.07              |                  | 0.0076         | 0.0020            | 4 |
| 62.380           | 0.020             |                  | 0.048          | 0.003             | 4 |
| 63.20            | 0.10              |                  | 0.0056         | 0.0020            | 4 |
| 65.05            | 0.08              |                  | 0.0107         | 0.0025            | 4 |
| 66.95            | 0.05              |                  | 0.030          | 0.005             | 4 |
| 73.32            | 0.05              |                  | 0.035          | 0.004             | 4 |
| 78.57            | 0.08              |                  | 0.020          | 0.004             | 4 |
| 79.19            | 0.03              |                  | 0.167          | 0.006             | 4 |
| 81.140           | 0.020             | 10.35            | 5.33           | 0.13              | 2 |
| 86.430           | 0.020             |                  | 0.193          | 0.006             | 4 |
| 95.00            | 0.12              |                  | 0.0051         | 0.0025            | 4 |
| 96.40            | 0.20              |                  | 0.008          | 0.003             | 4 |
| 98.30            | 0.10              |                  | 0.018          | 0.004             | 4 |
| 100.00           | 0.10              |                  | 0.096          | 0.005             | 4 |
| 101.6            | 0.3               |                  | 0.223          | 0.021             | 4 |
| 102.060          | 0.010             | 18.56            | 10.40          | 0.26              | 1 |
| 103.3            | 0.3               |                  | 0.061          | 0.010             | 4 |
| 105.00           | 0.20              |                  | 0.036          | 0.005             | 4 |
| 109.40           | 0.20              |                  | 0.046          | 0.010             | 4 |
| 111.90           | 0.20              |                  | 0.041          | 0.010             | 4 |
| 113.50           | 0.10              |                  | 0.015          | 0.005             | 4 |
| 123.7            | 0.5               |                  | 0.0051         | 0.0025            | 4 |
| 125.2            | 0.3               |                  | 0.011          | 0.004             | 4 |
| 126.1            | 0.3               |                  | 0.008          | 0.004             | 4 |
| 127.4            | 0.4               |                  | 0.030          | 0.010             | 4 |
| 130.50           | 0.10              |                  | 0.091          | 0.010             | 4 |
| 132.20           | 0.10              |                  | 0.006          | 0.004             | 4 |
| 134.860          | 0.020             | 1.87             | 0.93           | 0.03              | 4 |
| 137.60           | 0.20              |                  | 0.10           | 0.05              | 4 |
| 149.3            | 0.3               |                  | 0.102          | 0.025             | 4 |
| 149.710          | 0.010             | 53.18            | 6.6            | 0.9               | 1 |

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 151.20           | 0.20              |                  | 0.10           | 0.04              | 4 |
| 155.90           | 0.20              |                  | 0.05           | 0.03              | 4 |
| 159.66           | 0.04              | 0.33             | 0.167          | 0.020             | 4 |
| 169.70           | 0.20              |                  | 0.041          | 0.010             | 4 |
| 172.00           | 0.20              |                  | 0.015          | 0.005             | 4 |
| 177.20           | 0.20              |                  | 0.086          | 0.015             | 4 |
| 182.250          | 0.020             | 3.93             | 0.96           | 0.25              | 3 |
| 183.11           | 0.08              |                  | 0.203          | 0.026             | 4 |
| 188.13           | 0.05              |                  | 0.279          | 0.016             | 4 |
| 189.76           | 0.04              | 1.58             | 0.66           | 0.05              | 4 |
| 190.52           | 0.06              |                  | 0.152          | 0.020             | 4 |
| 200.630          | 0.020             | 18.26            | 9.89           | 0.21              | 1 |
| 203.4            | 0.4               |                  | 0.025          | 0.010             | 4 |
| 207.50           | 0.10              |                  | 0.051          | 0.015             | 4 |
| 210.3            | 0.3               |                  | 0.020          | 0.005             | 4 |
| 211.9            | 0.4               |                  | 0.015          | 0.005             | 4 |
| 213.98           | 0.03              | 1.38             | 0.558          | 0.027             | 4 |
| 227.7            | 0.4               |                  | 0.020          | 0.015             | 4 |
| 230.65           | 0.05              | 0.68             | 0.254          | 0.016             | 4 |
| 232.30           | 0.10              |                  | 0.122          | 0.015             | 4 |
| 235.00           | 0.20              |                  | 0.020          | 0.015             | 4 |
| 240.930          | 0.010             | 19.25            | 9.94           | 0.18              | 1 |
| 253.170          | 0.020             | 1.70             | 0.852          | 0.020             | 4 |
| 255.44           | 0.07              | 0.80             | 0.406          | 0.016             | 4 |
| 261.40           | 0.20              |                  | 0.020          | 0.005             | 4 |
| 267.2            | 0.3               |                  | 0.020          | 0.015             | 4 |
| 269.2            | 0.3               |                  | 0.1420         | 0.0021            | 4 |
| 269.2            | 0.3               |                  | 0.1420         | 0.0021            | 4 |
| 278.560          | 0.020             | 4.58             | 2.33           | 0.06              | 3 |
| 281.4            | 0.3               |                  | 0.046          | 0.025             | 4 |
| 283.20           | 0.20              |                  | 0.51           | 0.05              | 4 |
| 290.30           | 0.20              |                  | 0.102          | 0.015             | 4 |
| 296.8            | 0.3               |                  | 0.066          | 0.010             | 4 |
| 302.70           | 0.20              |                  | 0.051          | 0.015             | 4 |
| 303.90           | 0.20              |                  | 0.051          | 0.010             | 4 |
| 309.47           | 0.06              | 1.12             | 0.49           | 0.05              | 4 |

# GAMMA-RAY ENERGIES AND INTENSITIES (page 2 of 3)

Nuclide:  $^{131m}\text{Te}$  $E_\gamma$ ,  $\sigma E_\gamma$ ,  $I_\gamma$ ,  $\sigma I_\gamma$  - 1998 ENSDF Data

Half Life: 30(2) hr.

Detector: 65 cm<sup>3</sup> coaxial Ge (Li)Method of Production:  $^{130}\text{Te}(n,\gamma)$ 

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 323.7            | 0.4               |                  | 0.020          | 0.010             | 4 |
| 331.2            | 0.6               |                  | 0.041          | 0.015             | 4 |
| 334.270          | 0.010             | 24.75            | 12.53          | 0.24              | 1 |
| 335.44           | 0.07              |                  | 0.18           | 0.03              | 4 |
| 342.92           | 0.05              |                  | 0.0            | 2.0               | 4 |
| 342.92           | 0.05              |                  | 0.51           | 0.15              | 4 |
| 345.9            | 0.3               |                  | 0.13           | 0.04              | 4 |
| 351.30           | 0.10              | 0.70             | 0.274          | 0.026             | 4 |
| 353.5            | 0.3               |                  | 0.10           | 0.05              | 4 |
| 354.70           | 0.10              | 0.85             | 0.299          | 0.016             | 4 |
| 357.4            | 0.3               |                  | 0.025          | 0.010             | 4 |
| 362.3            | 0.4               |                  | 0.10           | 0.05              | 4 |
| 364.98           | 0.10              |                  | 1.57           | 0.20              | 4 |
| 375.8            | 0.3               |                  | 0.015          | 0.005             | 4 |
| 377.8            | 0.3               |                  | 0.0507         | 0.0008            | 4 |
| 377.8            | 0.3               |                  | 0.0507         | 0.0008            | 4 |
| 379.3            | 0.3               |                  | 0.025          | 0.010             | 4 |
| 383.90           | 0.07              |                  | 0.26           | 0.04              | 4 |
| 403.3            | 0.4               |                  | 0.041          | 0.015             | 4 |
| 408.2            | 0.3               |                  | 0.08           | 0.04              | 4 |
| 417.40           | 0.20              | 1.42             | 0.365          | 0.026             | 4 |
| 432.40           | 0.07              | 1.92             | 0.87           | 0.04              | 3 |
| 452.30           | 0.04              | (14.80)          | 2.0            | 0.5               | 2 |
| 462.92           | 0.05              | 4.87             | 2.38           | 0.06              | 3 |
| 468.16           | 0.09              | 0.74             | 0.41           | 0.04              | 4 |
| 492.65           | 0.05              | (3.23)           | 0.10           | 0.20              | 3 |
| 506.80           | 0.20              |                  | 0.117          | 0.020             | 4 |
| 524.80           | 0.10              |                  | 0.178          | 0.020             | 4 |
| 530.70           | 0.10              |                  | 0.137          | 0.025             | 4 |
| 541.40           | 0.10              |                  | 0.15           | 0.03              | 4 |
| 546.70           | 0.20              |                  | 0.051          | 0.010             | 4 |
| 558.10           | 0.20              |                  | 0.030          | 0.010             | 4 |
| 572.70           | 0.20              |                  | 0.06           | 0.03              | 4 |
| 579.8            | 0.3               |                  | 0.10           | 0.03              | 4 |
| 586.30           | 0.03              | 6.29             | 2.59           | 0.11              | 3 |
| 597.00           | 0.20              |                  | 0.066          | 0.025             | 4 |

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 602.09           | 0.04              | 4.11             | 0.41           | 0.15              | 3 |
| 609.40           | 0.10              |                  | 0.183          | 0.020             | 4 |
| 637.3            |                   |                  | 0.0406         | 0.0006            | 4 |
| 657.20           | 0.20              |                  | 0.041          | 0.020             | 4 |
| 665.05           | 0.03              | 12.01            | 5.68           | 0.13              | 2 |
| 681.9            | 0.3               |                  | 0.041          | 0.010             | 4 |
| 685.90           | 0.10              | 0.72             | 0.203          | 0.016             | 4 |
| 695.62           | 0.08              |                  | 0.52           | 0.04              | 4 |
| 702.50           | 0.07              | 1.41             | 0.512          | 0.026             | 4 |
| 713.10           | 0.04              | 4.10             | 1.88           | 0.20              | 3 |
| 738.80           | 0.20              |                  | 0.086          | 0.015             | 4 |
| 744.20           | 0.04              | 4.39             | 2.08           | 0.06              | 3 |
| 749.0            | 0.8               |                  | 0.020          | 0.010             | 4 |
| 773.67           | 0.03              | 100              | 50.0           | 0.9               | 1 |
| 774.10           | 0.10              |                  | 0.71           | 0.10              |   |
| 782.49           | 0.04              | 20.0             | 10.20          | 0.22              | 1 |
| 793.75           | 0.03              | 35.92            | 18.2           | 0.4               | 1 |
| 801.60           | 0.20              |                  | 0.025          | 0.010             | 4 |
| 822.78           | 0.04              | 16.25            | 8.02           | 0.16              | 1 |
| 844.90           | 0.20              |                  | 0.20           | 0.05              | 4 |
| 848.90           | 0.20              |                  | 0.051          | 0.015             | 4 |
| 852.21           | 0.03              | 54.95            | 0.51           | 0.25              | 1 |
| 852.21           | 0.03              |                  | 27.0           | 0.7               |   |
| 856.05           | 0.06              | 1.50             | 0.81           | 0.05              | 3 |
| 865.10           | 0.20              | 0.52             | 0.25           | 0.05              | 4 |
| 872.3            | 0.3               | 0.34             | 0.132          | 0.015             | 4 |
| 881.6            | 0.3               |                  | 0.046          | 0.015             | 4 |
| 910.00           | 0.03              | 9.44             | 4.31           | 0.12              | 2 |
| 920.62           | 0.05              | 3.83             | 1.57           | 0.10              | 3 |
| 923.40           | 0.20              |                  | 0.15           | 0.03              | 4 |
| 930.0            | 0.4               |                  | 0.025          | 0.015             | 4 |
| 941.27           | 0.05              | 2.48             | 1.02           | 0.04              | 3 |
| 987.80           | 0.10              |                  | 0.203          | 0.016             | 4 |
| 995.1            | 0.3               |                  | 0.117          | 0.020             | 4 |
| 999.20           | 0.10              |                  | 0.223          | 0.026             | 4 |

# GAMMA-RAY ENERGIES AND INTENSITIES (page 3 of 3)

Nuclide:  $^{131m}\text{Te}$  $E_\gamma$ ,  $\sigma E_\gamma$ ,  $I_\gamma$ ,  $\sigma I_\gamma$  - 1998 ENSDF Data

Half Life: 30(2) hr.

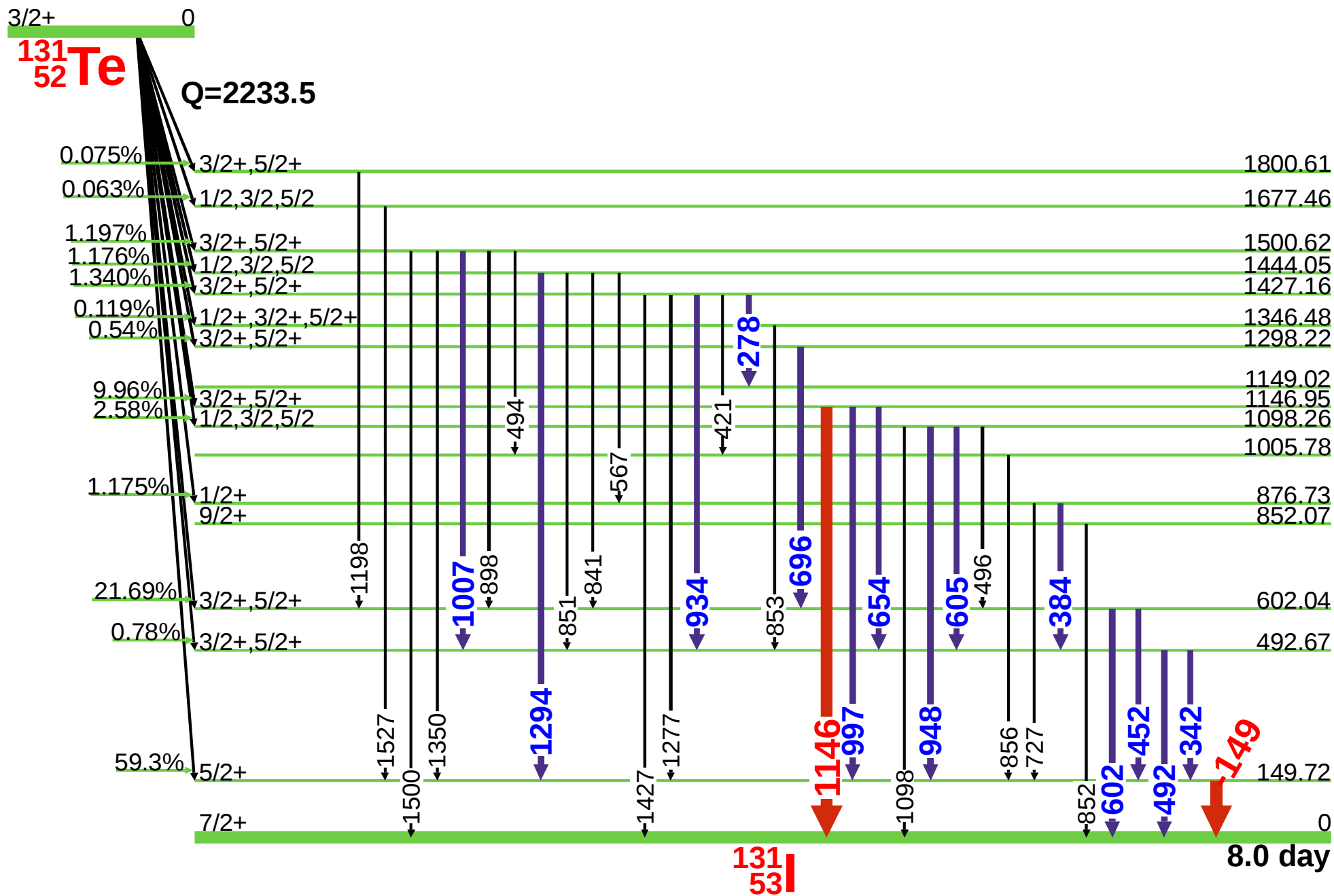
Detector: 65 cm<sup>3</sup> coaxial Ge (Li)Method of Production:  $^{130}\text{Te}(n,\gamma)$ 

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 1003.60          | 0.20              |                  | 0.036          | 0.020             | 4 |
| 1005.70          | 0.20              |                  | 0.096          | 0.020             | 4 |
| 1023.60          | 0.20              | 0.54             | 0.081          | 0.010             | 4 |
| 1027.8           | 0.4               |                  | 0.010          | 0.005             | 4 |
| 1035.40          | 0.20              |                  | 0.137          | 0.010             | 4 |
| 1059.69          | 0.04              | 4.29             | 2.03           | 0.06              | 3 |
| 1072.30          | 0.20              |                  | 0.030          | 0.005             | 4 |
| 1108.3           | 0.3               |                  | 0.030          | 0.010             | 4 |
| 1114.1           | 0.3               |                  | 0.015          | 0.005             | 4 |
| 1125.46          | 0.04              | 31.08            | 15.0           | 0.4               | 1 |
| 1127.96          | 0.06              | 1.83             | 1.27           | 0.10              | 3 |
| 1134.2           | 0.4               |                  | 0.010          | 0.005             | 4 |
| 1148.89          | 0.07              | 5.73             | 0.660          | 0.010             | 2 |
| 1148.89          | 0.07              |                  | 2.0            | 0.4               |   |
| 1150.90          | 0.09              | 0.69             | 0.86           | 0.10              | 3 |
| 1162.70          | 0.20              |                  | 0.036          | 0.010             | 4 |
| 1165.50          | 0.10              | 0.62             | 0.183          | 0.016             | 3 |
| 1181.4           | 0.4               |                  | 0.015          | 0.010             | 4 |
| 1206.60          | 0.04              | 26.23            | 12.78          | 0.28              | 1 |
| 1211.00          | 0.20              |                  | 0.081          | 0.015             | 4 |
| 1227.8           | 0.5               |                  | 0.0101         | 0.0002            | 4 |
| 1227.8           | 0.5               |                  | 0.0101         | 0.0002            | 4 |
| 1237.32          | 0.05              | 1.78             | 0.86           | 0.04              | 2 |
| 1254.2           | 0.4               |                  | 0.036          | 0.005             | 4 |

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| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 1315.16          | 0.08              | 2.34             | 0.91           | 0.10              | 2 |
| 1316.20          | 0.20              |                  | 0.13           | 0.05              | 4 |
| 1318.30          | 0.20              |                  | 0.051          | 0.010             | 4 |
| 1333.8           | 0.3               |                  | 0.071          | 0.010             | 4 |
| 1340.60          | 0.10              | 0.62             | 0.132          | 0.015             | 3 |
| 1376.8           | 0.4               |                  | 0.056          | 0.010             | 4 |
| 1389.6           | 0.3               |                  | 0.020          | 0.005             | 4 |
| 1394.83          | 0.09              | 0.36             | 0.142          | 0.010             | 4 |
| 1403.6           | 0.6               |                  | 0.015          | 0.010             | 4 |
| 1496.5           | 0.4               |                  | 0.076          | 0.010             | 4 |
| 1547.75          | 0.09              |                  | 0.091          | 0.010             | 4 |
| 1646.01          | 0.05              | 3.53             | 1.62           | 0.06              | 1 |
| 1696.8           | 0.5               |                  | 0.020          | 0.005             | 4 |
| 1830.6           | 0.4               |                  | 0.010          | 0.005             | 4 |
| 1880.1           | 0.3               |                  | 0.081          | 0.010             | 4 |
| 1887.70          | 0.07              | 3.93             | 1.78           | 0.06              | 1 |
| 1924.1           | 0.3               |                  | 0.0051         | 0.0025            | 4 |
| 1936.15          | 0.09              | 0.20             | 0.096          | 0.010             | 4 |
| 1980.3           | 0.3               | 0.25             | 0.041          | 0.010             | 4 |
| 2000.94          | 0.06              | 5.89             | 2.64           | 0.06              | 1 |
| 2168.54          | 0.09              | 0.92             | 0.457          | 0.026             | 1 |
| 2270.65          | 0.09              | 0.86             | 0.502          | 0.026             | 2 |
| 2332.7           | 0.4               |                  | 0.0036         | 0.0005            | 4 |

25 min.

 $^{131}\text{Te}(25 \text{ min.})$  Decay Scheme

<sup>1</sup>GAMMA-RAY ENERGIES AND INTENSITIES (page 1 of 2)Nuclide: <sup>131</sup>Te $E_\gamma$ ,  $\sigma E_\gamma$ ,  $I_\gamma$ ,  $\sigma I_\gamma$  - 1998 ENSDF Data

Half Life: 25.0(1) min.

Detector: 65 cm<sup>3</sup> coaxial Ge (Li)Method of Production: <sup>130</sup>Te(n, $\gamma$ )

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 109.40           | 0.04              |                  | 0.062          | 0.007             | 4 |
| 141.20           | 0.04              |                  | 0.028          | 0.005             | 4 |
| 149.716          | 0.005             | 100              | 68.8           | 0.4               | 1 |
| 151.10           | 0.10              |                  | 0.17           | 0.06              | 4 |
| 221.57           | 0.05              |                  | 0.033          | 0.005             | 4 |
| 267.5            | 0.3               |                  | 0.004          | 0.003             | 4 |
| 274.68           | 0.15              |                  | 0.0069         |                   | 4 |
| 278.170          | 0.020             | 0.29             | 0.098          | 0.005             | 4 |
| 280.17           | 0.12              |                  | 0.017          | 0.005             | 4 |
| 294.75           | 0.15              |                  | 0.0048         |                   | 4 |
| 297.09           | 0.05              |                  | 0.007          | 0.005             | 4 |
| 297.09           | 0.05              |                  | 0.043          | 0.005             | 4 |
| 299.94           | 0.06              |                  | 0.039          | 0.005             | 4 |
| 342.945          | 0.004             | 1.15             | 0.702          | 0.008             | 3 |
| 345.60           | 0.10              |                  | 0.014          | 0.004             | 4 |
| 351.48           | 0.07              |                  | 0.023          | 0.004             | 4 |
| 353.58           | 0.09              |                  | 0.019          | 0.004             | 4 |
| 384.059          | 0.003             | 1.45             | 0.894          | 0.009             | 2 |
| 402.36           | 0.14              |                  | 0.007          | 0.003             | 4 |
| 403.3            | 1.0               |                  | 0.007          | 0.003             | 4 |
| 421.32           | 0.07              | 0.12             | 0.042          | 0.008             | 4 |
| 438.30           | 0.20              |                  | 0.007          | 0.003             | 4 |
| 452.323          | 0.002             | 29.0             | 18.20          | 0.12              | 2 |
| 469.70           | 0.10              |                  | 0.015          | 0.006             | 4 |
| 492.660          | 0.010             | 7.72             | 4.83           | 0.03              | 3 |
| 494.85           | 0.05              | 0.24             | 0.076          | 0.007             | 4 |
| 496.23           | 0.08              |                  | 0.034          | 0.007             |   |
| 544.880          | 0.010             | 0.68             | 0.427          | 0.014             | 4 |
| 550.40           | 0.10              |                  | 0.028          | 0.007             | 4 |
| 567.33           | 0.04              | 0.18             | 0.102          | 0.006             | 4 |
| 574.90           | 0.10              |                  | 0.031          | 0.005             | 4 |
| 602.039          | 0.003             | 6.81             | 4.19           | 0.03              | 3 |
| 605.550          | 0.020             | 0.22             | 0.117          | 0.007             | 4 |
| 654.260          | 0.010             | 2.43             | 1.527          | 0.016             | 4 |
| 696.190          | 0.020             | 0.37             | 0.179          | 0.014             | 3 |

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 702.7            | 0.3               |                  | 0.008          | 0.006             | 4 |
| 727.000          | 0.020             | 0.82             | 0.468          | 0.007             | 4 |
| 744.4            | 0.3               |                  | 0.008          | 0.004             | 4 |
| 805.57           | 0.20              |                  | 0.014          | 0.006             | 4 |
| 825.00           | 0.20              |                  | 0.028          | 0.007             | 4 |
| 841.990          | 0.020             | 0.31             | 0.200          | 0.007             | 4 |
| 852.21           | 0.06              |                  | 0.044          | 0.005             | 4 |
| 853.83           | 0.05              |                  | 0.096          | 0.005             | 4 |
| 856.08           | 0.03              |                  | 0.131          | 0.007             | 4 |
| 881.15           | 0.09              |                  | 0.026          | 0.004             | 4 |
| 898.54           | 0.03              | 0.26             | 0.138          | 0.007             | 4 |
| 934.483          | 0.005             | 1.54             | 0.874          | 0.015             | 4 |
| 948.542          | 0.004             | 3.86             | 2.26           | 0.03              | 3 |
| 951.390          | 0.020             | 0.59             | 0.330          | 0.007             | 4 |
| 997.250          | 0.010             | 5.68             | 3.337          | 0.024             | 2 |
| 999.26           | 0.15              |                  | 0.028          | 0.007             | 4 |
| 1005.76          | 0.15              |                  | 0.014          | 0.007             | 4 |
| 1007.960         | 0.010             | 1.49             | 0.798          | 0.008             | 3 |
| 1035.5           | 0.5               |                  | 0.0028         | 0.0021            | 4 |
| 1066.8           | 0.3               |                  | 0.006          | 0.003             | 4 |
| 1098.250         | 0.020             | 0.31             | 0.172          | 0.007             | 4 |
| 1146.960         | 0.010             | 8.49             | 4.95           | 0.04              | 1 |
| 1148.51          | 0.06              |                  | 0.110          | 0.007             | 4 |
| 1148.9           | 1.0               |                  | 0.062          | 0.007             | 4 |
| 1155.80          | 0.20              |                  | 0.0041         | 0.0021            | 4 |
| 1184.70          | 0.20              |                  | 0.0055         | 0.0021            | 4 |
| 1198.30          | 0.20              |                  | 0.0055         | 0.0014            | 4 |
| 1265.20          | 0.20              |                  | 0.0048         | 0.0014            | 4 |
| 1277.440         | 0.010             | 0.20             | 0.118          | 0.005             | 4 |
| 1294.340         | 0.020             | 0.80             | 0.482          | 0.007             | 3 |
| 1297.98          | 0.16              |                  | 0.0048         | 0.0021            | 4 |
| 1308.10          | 0.20              |                  | 0.0069         | 0.0007            | 4 |
| 1350.91          | 0.04              | 0.093            | 0.060          | 0.004             | 4 |
| 1427.140         | 0.020             | 0.19             | 0.105          | 0.004             | 4 |
| 1500.62          | 0.03              | 0.21             | 0.115          | 0.004             | 4 |

<sup>1</sup>GAMMA-RAY ENERGIES AND INTENSITIES (page 2 of 2)

Nuclide: <sup>131</sup>Te

E<sub>γ</sub>, σE<sub>γ</sub>, I<sub>γ</sub>, σI<sub>γ</sub> - 1998 ENSDF Data

Half Life: 25.0(1) min.

Detector: 65 cm<sup>3</sup> coaxial Ge (Li)

Method of Production: <sup>130</sup>Te(n,γ)

| E <sub>γ</sub> (keV) | σE <sub>γ</sub> | I <sub>γ</sub> (rel) | I <sub>γ</sub> (%) | σI <sub>γ</sub> | S |
|----------------------|-----------------|----------------------|--------------------|-----------------|---|
| 1527.730             | 0.020           | 0.11                 | 0.0571             | 0.0028          | 4 |
| 1548.0               | 0.5             |                      | 0.0009             | 0.0005          | 4 |
| 1579.94              | 0.09            |                      | 0.0083             | 0.0007          | 4 |
| 1650.97              | 0.09            |                      | 0.0124             | 0.0007          | 4 |
| 1765.2               | 0.5             |                      | 0.0062             |                 | 4 |
| 1800.68              | 0.20            |                      | 0.0034             | 0.0007          | 4 |

| E <sub>γ</sub> (keV) | σE <sub>γ</sub> | I <sub>γ</sub> (rel) | I <sub>γ</sub> (%) | σI <sub>γ</sub> | S |
|----------------------|-----------------|----------------------|--------------------|-----------------|---|
| 1891.1               | 0.3             |                      | 0.0028             | 0.0014          | 4 |
| 1923.60              | 0.20            |                      | 0.0034             | 0.0007          | 4 |
| 1973.1               | 0.4             |                      | 0.0021             | 0.0007          | 4 |
| 2040.80              | 0.10            |                      | 0.0069             | 0.0007          | 4 |
| 2072.8               | 0.3             |                      | 0.0062             | 0.0014          | 4 |

