THERMAL-NEUTRON CAPTURE GAMMA-RAYS II

May 1997

J. K. Tuli

National Nuclear Data Center

Department of Advanced Technology
Brookhaven National Laboratory
Associated Universities, Inc.
Upton, Long Island, New York 11973

MASTER

Under Contract No. DE-AC02-76CH00016 with the
United States Department of Energy

HA
DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency, contractor, or subcontractor thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency, contractor or subcontractor thereof.

DISCLAIMER

**Portions of this document may be illegible
in electronic image products. Images are
produced from the best available original
document.**

Thermal-Neutron Capture Gamma-Rays II

J. K. Tuli
National Nuclear Data Center
Brookhaven National Laboratory
Upton, NY 11973-5000, USA

May 5, 1997

The energy and photon intensity of gamma rays as seen in thermal-neutron capture are presented ordered by Z, A of target nuclii. All gamma-rays with intensity of $\geq 2\%$ of the strongest transition are included. The strongest transition is indicated in each case. Where the target nuclide mass number is indicated as 'nat' the natural target was used. The gamma energies given are in keV. The gamma intensities given are relative to 100 for the strongest transition.

All data for $A > 44$ are taken from *Evaluated Nuclear Structure Data File (4/97)*, a computer file of evaluated nuclear structure data maintained by the National Nuclear Data Center, Brookhaven National Laboratory, on behalf of the Nuclear Structure and and Decay and Decay Data network, coordinated by the International Atomic Energy Agency, Vienna. These data are published in *Nuclear Data Sheets*, Academic Press, San Diego, CA. The data for $A \leq 44$ is taken from "Prompt Gamma Rays from Thermal-Neutron Capture", M. A. Lone, R. A. Leavitt, D. A. Harrison, *Atomic Data and Nuclear Data Tables* 26, 511 (1981).

This research was supported by the Division of Nuclear Physics, Office of High Energy and Nuclear Physics, U. S. Department of Energy.

CAPTURE GAMMAS - ordered by nucleus

Page- 1

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target Nuclide=natH		2157.40	12.18
Strongest G= 2223.30		2174.70	8.85
2223.30	100.00	2356.70	14.83
		2520.64	22.81
Target Nuclide=natLi		2831.09	7.23
Strongest G= 2032.50		3013.78	2.89
477.60	2.90	3532.09	32.93
980.70	11.00	3677.75	52.74
1052.70	5.50	3855.11	2.76
2032.50	100.00	3884.33	2.83
7246.70	4.50	4508.85	53.08
		5269.22	100.00
Target Nuclide= 9Be		5297.96	70.70
Strongest G= 6809.41		5533.37	62.16
853.53	40.72	5562.06	33.64
2590.15	36.52	5619.10	3.63
3367.61	52.88	6322.39	59.80
3443.51	18.18	6419.40	3.70
5956.73	2.75	6505.40	2.86
6809.41	100.00	6759.40	3.06
		7299.08	30.27
Target Nuclide=natB		7413.60	4.00
Strongest G= 4443.00		8310.37	12.82
4443.00	100.00	9149.39	5.52
4710.20	45.00	10829.18	47.49
6759.30	52.00		
7005.10	62.99		
Target Nuclide=natC			
Strongest G= 4945.33			
1261.74	43.66		
3683.93	47.46		
4945.33	100.00		
Target Nuclide=natO			
Strongest G= 870.89			
		870.89	100.00
		1087.88	82.00
		2184.47	82.00
		3271.00	18.00
Target Nuclide= 19F			
Strongest G= 582.20			
		582.20	100.00
		2452.80	78.57
		2528.10	64.90
		2601.90	68.97
		2632.10	41.32
		2661.70	48.85
		2682.80	59.68
		2699.30	34.64
		3016.80	30.80
		3051.90	40.32
		3074.40	70.74
		3262.60	26.42
		3488.70	56.30
		3522.30	20.12
		3589.30	85.33
		3630.30	29.65
		4127.20	23.89
		4199.90	17.67
		4260.40	18.28
		4293.70	18.74
		4416.10	22.50
Target Nuclide= 23Na			
Strongest G= 472.40			
		472.40	100.00
		560.20	3.68
		781.10	4.41
		799.90	3.66
		870.60	36.64
		1345.50	3.18
		1634.40	12.45
		1748.90	3.51
		1889.60	3.79
		1949.00	3.34
		1983.70	2.76
		2027.20	28.58
		2057.00	2.09
		2123.80	3.88
		2137.50	2.17
		2197.70	3.66
		2361.30	3.49
		2397.70	3.14
		2414.90	9.28
		2517.60	24.70

CAPTURE GAMMAS - ordered by nucleus

Page- 2

E(g) (keV)	I(g) / I(g) (max) %	E(g) (keV)	I(g) / I(g) (max) %
Target= 23Na cont.			
2594.10	3.09	4966.60	2.84
2808.90	6.43	5295.90	2.61
2862.70	16.96	5451.80	6.79
2903.10	4.23	5526.90	2.86
2982.40	5.32	6111.40	4.67
3026.20	5.78	6354.80	3.13
3098.10	13.96	8154.40	9.75
3213.50	2.21	Target Nuclide= 27Al	
3370.50	5.82	Strongest G= 7723.85	
3411.60	2.49	248.90	24.94
3504.70	3.29	252.10	20.60
3588.00	24.99	259.30	9.41
3644.40	2.91	550.70	3.35
3878.50	8.99	559.00	3.35
3982.00	31.14	597.10	5.91
4187.80	2.42	758.00	6.53
5616.70	8.64	830.40	6.27
6395.40	37.07	984.00	19.94
Target Nuclide= natMg		1408.85	3.94
Strongest G= 3916.70		1525.95	2.92
277.70	6.27	1589.97	3.65
326.60	4.52	1622.51	12.21
390.00	13.74	1658.70	2.99
436.30	4.50	1927.17	2.92
479.60	4.11	1983.75	2.55
559.60	12.40	2108.25	6.56
585.20	52.55	2138.99	6.38
608.40	5.35	2240.70	11.08
693.00	8.33	2271.98	5.50
976.20	10.86	2282.86	10.68
1129.40	17.40	2298.00	2.33
1632.80	11.31	2577.62	5.07
1690.10	15.98	2590.34	9.81
1714.00	7.26	2625.83	3.54
1750.00	6.19	2821.40	10.72
1808.90	61.64	2960.01	29.13
1890.20	17.79	3033.89	25.56
1982.40	3.85	3302.97	4.05
2043.40	8.62	3465.08	22.46
2048.40	7.98	3560.49	2.48
2541.00	4.61	3591.12	14.98
2658.60	2.20	3650.95	3.61
2828.10	87.43	3789.40	3.06
2880.30	7.77	3849.20	9.30
2963.60	3.21	3875.46	7.80
3054.10	26.53	4015.63	2.19
3139.50	2.32	4133.32	23.41
3209.40	2.30	4259.54	21.87
3301.10	18.28	4428.33	2.66
3413.60	13.31	4460.13	8.02
3743.70	2.80	4659.61	7.62
3830.70	13.82	4690.71	14.36
3916.70	100.00	4733.97	18.23
4216.50	3.17	4754.77	2.19
		4764.34	2.44
		Target Nuclide= natSi	
		Strongest G= 3539.11	
		246.90	5.53
		250.50	5.34
		752.39	2.18
		1273.33	23.43
		1757.64	5.88
		1764.44	4.41
		1775.04	5.88
		2029.77	3.31
		2092.90	31.65
		2235.21	2.35
		2426.01	4.49
		2781.49	3.19
		3054.16	2.07
		3539.11	100.00
		3661.39	5.72
		3955.15	3.32
		4934.39	92.19
		5107.23	5.51
		6380.70	18.19
		6743.16	2.00
		6747.17	2.06
		7200.57	11.43
		8472.91	3.59
		Target Nuclide= 31P	
		Strongest G= 3900.30	
		227.30	4.07
		233.00	2.76
		243.60	13.66
		250.90	16.98
		325.30	8.90
		336.50	4.82
		371.50	3.63
		427.70	3.38
		436.10	6.83
		449.30	5.45
		472.40	12.47
		479.50	11.65
		557.60	21.43
		595.20	24.56
		636.20	76.32

CAPTURE GAMMAS - ordered by nucleus

Page- 3

E(g) (keV)	I(g) / I(g) (max) %	E(g) (keV)	I(g) / I(g) (max) %
Target= 31P	cont.	3610.60	2.26
706.50	10.65	3768.20	2.76
869.00	12.66	3900.30	100.00
915.30	7.39	3924.90	22.68
944.60	7.08	3960.30	2.44
1032.40	8.58	4129.60	2.38
1070.60	53.57	4146.80	2.01
1321.40	9.77	4200.00	16.48
1380.60	12.41	4364.30	28.70
1413.10	87.97	4408.30	2.26
1629.90	17.61	4490.50	9.84
1674.10	22.24	4613.70	2.82
1688.20	14.79	4629.20	2.57
1734.20	24.37	4671.30	86.47
1760.10	9.84	4877.10	4.39
1890.00	37.91	4911.90	3.76
1941.90	33.21	5088.30	3.57
1999.80	6.77	5194.80	6.89
2021.80	10.34	5266.20	27.32
2034.10	8.33	5532.40	2.51
2114.30	43.48	5704.80	19.99
2154.20	95.43	5778.30	5.64
2172.60	16.23	5816.50	2.51
2244.60	9.09	6061.90	2.07
2250.60	7.08	6194.60	4.07
2262.70	6.33	6275.70	2.76
2276.00	5.58	6319.50	3.57
2285.10	5.08	6392.00	2.44
2295.40	9.96	6418.90	3.51
2309.10	3.63	6504.70	2.82
2424.70	10.40	6707.80	3.20
2460.70	4.20	6785.30	81.33
2553.90	3.26	6915.30	4.39
2586.10	30.01	7179.20	2.57
2603.10	4.64	7306.20	3.45
2657.00	10.71	7421.20	33.27
2705.10	4.07	7788.60	2.13
2774.20	2.51	7856.20	6.27
2863.10	13.41		
2886.20	19.17	Target Nuclide=natS	
2992.10	2.07	Strongest G= 841.10	
3058.30	36.78	841.10	100.00
3087.80	2.44	2379.70	58.90
3121.90	6.02	2490.80	3.59
3152.00	2.32	2753.20	7.72
3168.00	2.13	2864.70	2.36
3185.40	10.78	2931.10	29.57
3273.80	33.27	3220.80	35.86
3318.10	2.51	3370.40	6.96
3336.70	2.07	3723.10	3.75
3368.30	3.51	4430.80	5.82
3444.10	5.64	4639.10	2.74
3482.10	2.32	4869.80	15.18
3522.80	82.39	5047.20	4.17
3551.00	5.58	5420.50	78.20
3594.00	3.20	7800.00	5.18
		8640.90	3.52
		Target Nuclide=natCl	
		Strongest G= 1950.93	
		436.13	3.08
		516.73	85.17
		589.90	2.99
		786.26	44.20
		788.40	69.06
		936.89	2.30
		1131.14	5.85
		1162.58	5.99
		1164.72	91.76
		1170.83	2.12
		1327.34	4.42
		1600.82	19.15
		1639.79	2.35
		1647.97	2.44
		1675.80	4.05
		1786.32	2.72
		1828.35	2.99
		1840.35	3.27
		1896.90	4.01
		1936.85	2.21
		1950.93	100.00
		1959.13	67.31
		1984.50	2.53
		2003.33	2.03
		2021.79	2.07
		2034.36	2.53
		2037.94	2.39
		2075.16	3.96
		2092.24	2.12
		2106.50	3.55
		2156.01	2.30
		2282.32	6.45
		2288.92	2.21
		2311.08	4.51
		2418.11	2.62
		2467.55	3.22
		2470.51	3.18
		2489.21	2.26
		2492.71	3.41
		2537.93	2.21
		2623.24	3.36
		2675.96	11.88
		2801.79	2.72
		2845.47	4.93
		2863.94	31.91
		2871.08	2.81
		2876.88	2.62
		2895.81	2.53
		2974.60	6.22
		2994.66	5.16
		3001.32	3.36
		3015.91	4.97

CAPTURE GAMMAS - ordered by nucleus

Page- 4

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target=natCl cont.		3978.67	2.16
3061.71	18.19	4002.77	2.97
3116.08	5.89	4061.75	3.19
3332.84	3.96	4136.38	6.43
3375.00	2.76	4201.00	4.25
3428.75	4.47	4361.22	8.53
3561.15	4.37	4386.40	3.09
3599.49	2.53	4992.21	3.96
3821.55	4.88	5013.81	2.04
3825.95	3.59	5043.33	3.83
3981.07	4.88	5069.35	2.68
4054.23	3.50	5173.75	5.59
4082.81	3.36	5380.63	17.29
4440.48	4.97	5510.02	6.35
4524.98	2.44	5695.96	12.08
4548.38	2.03	5730.09	4.64
4616.62	3.31	5752.36	11.66
4729.02	3.45	6999.46	5.21
4944.62	3.22	7770.22	13.01
4979.94	18.60		
5017.95	2.53	Target Nuclide=natCa	
5247.09	2.44	Strongest G= 1942.00	
5517.34	7.97	520.00	11.33
5584.94	2.30	696.30	2.23
5715.26	25.32	707.70	2.69
5902.91	5.25	726.90	4.07
6086.57	3.41	836.60	2.27
6110.88	92.08	867.20	2.99
6619.53	36.88	980.10	2.59
6627.64	20.90	1155.60	2.58
6977.66	10.41	1388.30	4.20
7413.80	47.97	1649.20	2.69
7790.16	39.36	1671.70	3.68
8578.36	13.40	1691.30	2.72
		1703.70	2.63
Target Nuclide=natAr		1724.00	4.01
Strongest G= 167.30		1825.80	2.94
167.30	100.00	1942.00	100.00
348.70	8.29	2000.80	13.74
516.00	31.78	2009.20	10.31
837.69	12.06	2077.60	2.67
1044.29	7.54	2094.20	3.06
1186.78	65.58	2118.40	3.18
1353.98	2.89	2129.80	4.82
2130.74	5.53	2149.40	2.18
2566.01	3.52	2294.60	3.43
2614.31	3.64	2660.20	2.10
2771.80	10.80	2811.00	4.56
2781.70	2.14	3585.70	3.14
2810.50	7.41	3610.20	8.74
3150.17	5.03	3759.70	3.63
3365.45	5.28	4418.90	20.59
3451.85	2.51	4749.70	3.78
3700.42	12.31	5515.00	3.32
4745.01	69.10	5900.60	5.86
5581.99	14.57	6419.90	53.60

Page- 5

E (g) (keV)	I (g) / I (g) (max) %	E (g) (keV)	I (g) / I (g) (max) %
Target Nuclide= 44Ca	547.11	6.01	4499.20
Strongest G= 174.27	554.53	28.62	4721.07
174.27	100.00	28.98	4883.68
348.70	5.45	36.04	4891.92
465.00	6.75	3.96	4975.27
814.30	6.23	2.19	4993.96
1169.20	5.19	7.49	5163.54
1260.63	23.77	9.19	5210.06
1434.80	11.43	9.33	5267.42
1725.70	57.14	5.41	5286.21
1900.00	15.32	2.16	5335.85
2075.10	10.26	5.94	5445.99
2415.20	2.86	2.47	5481.65
2667.70	4.29	4.13	5583.80
2716.00	2.08	5.34	5624.06
2799.10	4.42	2.51	5665.82
3243.50	3.12	4.59	5743.48
3576.80	2.21	5.94	5897.22
3996.20	13.38	5.37	6046.22
4173.30	3.12	2.01	6055.11
4572.80	5.32	4.20	6170.54
5165.70	12.60	6.36	6300.78
5515.00	70.52	6.25	6318.06
5980.10	13.90	3.22	6349.84
		2.65	6364.14
Target Nuclide= 46Ca	1335.07	11.13	6457.73
Strongest G= 2013.57	1509.30	2.08	6557.09
861.65	12.35	5.12	6641.17
1772.67	4.49	5.05	6716.78
2013.57	100.00	8.37	6839.17
2044.22	10.20	2.58	6840.38
2795.50	2.14	4.38	6874.14
3218.10	9.69	3.00	7117.45
4400.60	10.61	6.33	7233.46
5262.10	75.51	2.86	7635.57
		4.63	8132.55
Target Nuclide= 48Ca	2005.19	5.27	8175.21
Strongest G= 5146.60	2106.25	2.08	8315.72
2023.16	33.33	3.07	8470.43
3123.00	33.33	2.54	8532.19
5146.60	100.00	2.65	8759.92
		2.16	
Target Nuclide= 45Sc	2477.35	2.40	Target Nuclide= 46Ti
Strongest G= 227.77	2635.66	6.64	Strongest G= 158.60
52.01	70.67	2.23	158.60
142.53	95.41	2.19	242.00
147.01	77.03	5.76	838.00
216.37	37.81	2.05	887.00
227.77	100.00	3.43	1314.00
228.71	53.00	3.14	1391.50
280.72	3.29	3.00	1525.00
295.24	60.78	2.08	1556.00
399.70	3.22	2.19	1608.00
476.20	3.89	3.32	1793.40
485.99	9.05	2.58	1818.40
539.42	11.52	2.05	2000.00

CAPTURE GAMMAS - ordered by nucleus

Page- 6

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target= 46Ti cont.			
2556.00	40.00	3921.70	2.57
3685.00	3.00	4881.38	5.27
3903.00	2.00	4966.88	3.38
3925.00	10.00	6418.55	35.67
3961.00	2.00	6556.00	5.95
4352.00	2.33	6760.13	54.15
4625.00	2.67		
4959.00	15.33	Target Nuclide= 49Ti	
5205.00	12.00	Strongest G= 1553.79	
5328.00	9.33	523.76	2.19
5700.00	3.00	1121.13	60.20
6086.00	14.33	1207.93	2.42
6328.00	16.33	1472.26	11.52
7083.00	40.00	1497.05	9.70
7334.00	31.67	1553.79	100.00
		2205.72	10.20
		2511.11	4.30
Target Nuclide= 47Ti		2618.33	20.10
Strongest G= 983.52		2704.92	4.42
423.63	2.65	2856.13	2.89
928.29	2.37	3271.41	3.85
944.10	8.16	4228.43	4.05
983.52	100.00	4747.73	2.05
1312.10	33.93	4992.42	4.54
1437.49	23.56	5558.94	6.20
1614.04	2.98	5752.69	4.77
2036.35	6.63	6058.10	10.13
2092.01	2.30	6766.73	17.98
2161.76	7.85	6791.41	7.66
2240.38	7.46	8263.51	8.66
2375.21	7.20	9384.41	5.13
2387.25	2.87		
2633.20	9.74	Target Nuclide= 50Ti	
2868.59	3.45	Strongest G= 1166.60	
3403.83	2.70	1166.60	100.00
3473.90	4.40	2198.90	41.49
5583.84	3.85	2904.30	12.71
5986.26	2.63	3174.60	19.90
6480.39	4.27	3197.40	23.74
7168.70	17.88	3466.70	69.54
7238.40	3.78	4173.80	51.56
7590.81	3.48	5206.10	84.89
7843.52	2.60	6373.50	10.07
8009.10	6.09		
9204.69	6.79	Target Nuclide= 50V	
		Strongest G= 1609.20	
Target Nuclide= 48Ti		320.10	11.00
Strongest G= 1381.74		1090.40	18.50
341.71	29.01	1173.50	7.10
1381.74	100.00	1492.70	9.20
1498.66	5.72	1609.20	100.00
1585.94	11.93	1776.60	39.20
1761.97	6.26	1801.30	2.90
1793.48	3.01	1813.30	31.30
3026.68	2.42	2004.70	17.90
3027.20	2.57	2089.00	3.60
		2128.50	4.00
		2293.10	5.50
		2333.90	2.00
		2411.70	2.20
		2514.60	5.50
		3377.60	3.90
		3599.70	2.19
		6604.60	2.00
		6927.20	2.15
		7149.00	2.19
		7177.70	3.31
		7437.20	4.88
		7665.90	6.63
		9442.60	2.96
		Target Nuclide= 51V	
		Strongest G= 22.76	
		17.15	12.50
		22.76	100.00
		124.45	10.42
		125.08	71.67
		147.85	12.50
		295.00	10.83
		419.47	15.42
		436.61	22.08
		645.69	54.17
		698.13	3.33
		712.90	4.42
		793.54	15.42
		823.19	25.00
		845.98	20.00
		1001.62	4.83
		1097.20	5.00
		1307.28	3.13
		1325.00	2.08
		1333.60	2.58
		1358.50	12.92
		1401.65	5.83
		1418.78	5.83
		1558.79	27.92
		1611.77	2.00
		1622.42	2.17
		1634.04	2.21
		1664.18	4.50
		1693.90	4.50
		1775.42	3.38
		1777.91	13.75
		1952.92	5.83
		1960.10	3.13
		2002.00	3.42
		2020.76	2.13
		2051.00	2.25
		2083.64	3.21
		2100.83	2.46
		2145.84	13.75
		2410.44	2.71

CAPTURE GAMMAS - ordered by nucleus

Page- 7

E (g) (keV)	I (g) / I (g) (max) %	E (g) (keV)	I (g) / I (g) (max) %
Target= 51V	cont.	7938.58	100.00
2420.00	5.00		504.72
2841.64	2.96		541.40
3502.68	2.88	Target Nuclide= 53Cr	558.70
3534.13	2.25	Strongest G= 834.85	716.43
3578.05	3.17	834.85	1140.40
4116.92	7.83	1784.69	1401.70
4452.19	4.71	1994.56	1705.40
4883.30	5.88	2239.07	1747.00
4992.91	3.04	2601.91	1876.20
5142.28	16.08	3719.84	1915.20
5210.07	20.04	4847.54	1987.60
5515.76	32.92	5999.95	2016.50
5551.21	2.29	6283.02	2023.90
5562.00	2.08	6645.64	2044.70
5752.03	31.25	6890.16	2063.20
5892.05	10.21	7100.11	2090.40
6464.84	37.33	8884.16	2122.50
6517.26	68.75	9718.85	2138.50
6874.12	43.33		2147.30
7162.84	52.92	Target Nuclide= 54Cr	2176.60
7287.89	5.25	Strongest G= 6246.40	2183.10
7293.54	8.63	241.85	2205.30
7310.66	20.92	324.03	2211.30
		565.89	2294.80
		840.93	2331.20
Target Nuclide= 50Cr		908.27	2338.40
Strongest G= 749.02		1474.28	2342.60
749.02	100.00	2379.48	2368.40
888.20	2.71	2894.30	2428.60
1149.40	5.63	3221.10	2437.80
1537.20	2.38	3351.50	2594.50
1899.30	15.38	3558.60	2598.60
2001.10	2.63	4771.80	2610.60
2348.90	2.87	5421.30	2622.70
2376.70	6.75	5680.40	2677.70
3262.80	2.00	6004.40	2832.90
5221.90	2.87	6246.40	2864.40
5491.40	2.20		2926.90
5494.50	2.50	Target Nuclide= 55Mn	2970.20
6135.70	9.50	Strongest G= 26.60	3003.40
6370.90	5.00	26.60	3047.50
7362.00	17.13	83.90	3266.80
8484.00	32.50	104.62	3346.90
8512.10	46.25	188.52	3399.60
		212.02	3409.10
Target Nuclide= 52Cr		215.13	3498.90
Strongest G= 7938.58		229.87	3580.60
564.03	27.40	271.17	3626.80
2120.00	4.11	274.28	3642.30
2320.90	25.69	314.39	3752.30
2670.80	7.19	335.54	3815.00
3616.60	6.17	340.99	3820.40
4322.13	5.30	354.11	3857.80
5269.00	9.58	375.18	3927.10
5618.23	24.66	454.30	3979.40
7374.58	19.52	459.71	4103.70

CAPTURE GAMMAS - ordered by nucleus

Page- 8

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %
Target= 55Mn cont.				
4223.50	4.06	4495.00	5.15	2433.50 3.03
4230.60	2.00	4589.60	3.94	2513.50 2.42
4268.50	3.83	4707.00	2.73	2726.00 10.91
4381.00	3.00	4802.80	4.39	2781.00 5.15
4446.00	4.39	5507.50	3.64	2820.00 2.88
4550.60	3.78	5745.40	3.48	2876.00 8.64
4567.20	10.78	6268.90	4.85	3071.00 2.42
4588.70	2.39	6826.80	2.88	3162.00 2.12
4643.90	4.67	7246.30	3.03	3326.00 8.64
4690.00	5.56	8886.40	18.64	3540.00 2.73
4725.00	15.33	9297.80	100.00	3881.80 2.12
4829.70	6.94			4139.90 3.64
4841.00	3.50	Target Nuclide= 56Fe		4322.10 3.18
4875.20	4.00	Strongest G= 7631.18		4626.50 5.00
4907.90	3.78	136.52	14.14	4749.80 4.55
4935.20	2.00	230.29	3.00	4823.90 3.64
4949.40	11.22	352.36	32.76	5001.00 2.12
4969.80	2.00	366.75	5.79	5044.00 16.21
5015.00	34.00	692.03	16.38	5223.00 16.06
5035.50	5.67	898.28	6.55	5493.90 16.52
5068.30	15.17	920.85	2.62	5691.60 3.79
5181.60	21.06	1019.02	6.00	5721.80 3.79
5199.10	4.72	1260.60	8.62	5747.00 3.64
5254.30	6.89	1358.71	3.10	5905.60 3.79
5404.50	2.17	1612.78	18.55	6163.10 5.00
5432.90	7.39	1725.29	21.72	6414.30 2.42
5437.00	7.06	2129.48	2.31	6506.40 10.30
5527.40	37.33	2721.17	4.72	6960.70 15.91
5760.90	9.67	3103.10	2.31	7262.20 17.27
5920.50	4.56	3186.00	2.34	8369.70 17.88
6030.60	2.89	3267.05	4.45	9233.70 3.33
6103.90	11.11	3412.90	5.55	10044.10 4.09
6429.10	4.06	3436.40	5.62	
6783.30	19.00	3921.50	4.62	Target Nuclide= 58Fe
6928.70	13.00	4217.98	23.34	Strongest G= 287.03
7057.80	61.11	4405.74	5.66	287.03 100.00
7159.70	33.11	4809.83	6.38	570.87 8.31
7243.80	68.33	4948.30	2.93	591.20 5.53
7270.30	19.44	5920.35	33.10	727.40 34.24
		6018.42	34.14	1211.24 3.31
		6380.47	3.83	1235.54 4.00
Target Nuclide= 54Fe		7278.82	20.69	1918.71 9.64
Strongest G= 9297.80		7631.18	100.00	2160.20 3.92
412.00	28.79	7645.58	86.21	4133.40 6.07
931.00	3.18			4618.86 5.76
1638.00	2.58	Target Nuclide= 57Fe		4661.81 13.90
1918.00	3.18	Strongest G= 810.50		5419.50 12.03
2052.00	3.03	810.50	100.00	5854.25 25.25
2470.00	5.91	863.60	27.42	6293.63 79.66
2618.00	3.64	1107.30	5.15	6580.89 5.76
2670.00	2.27	1446.30	5.30	
3028.00	3.94	1674.20	26.67	Target Nuclide= 59Co
3380.00	2.27	1862.50	2.42	Strongest G= 58.90
3552.00	2.12	1971.00	11.06	58.90 100.00
3792.00	2.73	2065.50	9.55	158.46 5.08
4455.00	2.42	2273.30	19.70	229.72 31.63

CAPTURE GAMMAS - ordered by nucleus

Page- 9

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target= 59Co cont.				
254.23	5.73	8120.51	8.60	3158.00
277.08	29.08	8533.36	48.00	3270.00
391.22	4.77	8998.41	100.00	3370.00
435.71	3.25			3860.00
447.68	14.58	Target Nuclide= 59Ni		6532.00
461.04	2.23	Strongest G=11386.70		6623.00
484.21	3.52	7069.20	2.24	7078.00
497.28	9.29	7367.90	10.68	7326.00
555.97	24.94	7516.60	11.16	7436.00
710.65	3.00	7652.20	2.90	7703.40
717.42	3.73	7799.40	3.87	8551.30
726.71	2.04	8069.30	16.56	9422.30
785.73	11.10	8192.70	9.53	10594.60
945.33	4.25	8263.20	8.57	
1507.37	3.08	9102.20	42.93	Target Nuclide= 62Ni
1515.77	11.56	9227.50	5.71	Strongest G= 6838.20
1830.79	11.46	10053.60	39.24	155.50
1852.71	2.94	11386.70	100.00	362.10
2032.95	2.48			5837.00
2727.18	3.19	Target Nuclide= 60Ni		6320.30
3749.23	2.90	Strongest G= 7819.60		6838.20
4906.16	3.54	655.30	3.33	
5181.74	5.56	815.90	5.64	Target Nuclide= 63Ni
5270.36	2.19	937.70	2.56	Strongest G= 1345.84
5602.99	2.46	1031.60	7.95	930.81
5614.68	2.17	1099.10	4.87	1187.02
5639.13	2.00	1184.70	6.92	1345.84
5660.51	14.87	2123.93	9.59	1680.07
5742.78	4.52	5695.70	17.18	3522.66
5925.98	3.77	5696.03	11.08	4788.96
5976.13	14.38	5824.10	5.38	4953.45
6486.61	13.02	6633.60	2.31	5389.13
6706.22	15.71	6634.79	2.03	6193.58
6877.40	17.54	6719.10	5.13	6631.34
6985.61	5.75	6720.40	4.03	7380.62
7056.11	3.67	7536.70	59.74	8311.45
7214.79	7.71	7537.29	56.15	9656.89
7491.99	6.00	7819.60	100.00	
		7820.25	96.15	Target Nuclide= 64Ni
Target Nuclide= 58Ni				Strongest G= 6034.80
Strongest G= 8998.41		Target Nuclide= 61Ni		63.60
339.42	14.20	Strongest G= 1172.80		310.20
465.00	46.00	756.80	2.04	629.00
877.97	15.20	875.64	18.82	692.60
1188.80	3.60	1128.73	8.95	1107.40
1301.47	3.60	1163.30	7.63	1346.00
1950.05	3.40	1172.80	100.00	4680.30
2554.14	3.22	1185.90	3.29	5405.80
2842.10	3.54	1220.80	6.84	5787.80
4858.61	2.92	1886.20	2.24	6034.80
5312.64	3.48	1985.10	5.39	
5817.19	7.20	2084.20	5.26	Target Nuclide= 63Cu
6105.28	4.70	2097.30	9.47	Strongest G= 7916.26
6583.85	5.22	2301.41	13.68	159.28
7697.12	2.50	2345.64	5.92	202.95
		2799.40	2.37	212.39

CAPTURE GAMMAS - ordered by nucleus

Page- 10

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target= 63Cu cont.		997.65	3.56	4164.00 2.43
264.88	2.45	1052.19	4.85	4583.00 3.60
278.24	72.51	1212.52	4.34	4829.00 4.79
343.94	17.82	1355.18	5.49	4870.00 2.70
376.85	2.11	1439.37	4.59	5520.00 2.93
384.74	4.59	1559.86	13.66	5541.00 3.31
449.51	3.23	1582.51	3.90	5560.00 7.89
467.99	5.47	1633.89	2.66	5762.00 2.01
503.65	4.83	1637.49	5.78	5777.00 9.62
534.11	2.18	1743.40	5.71	6037.00 10.59
579.75	7.49	1746.20	2.63	6510.00 8.45
608.75	23.56	1820.21	2.27	7069.00 14.48
617.43	2.24	1832.39	2.98	7112.00 14.06
648.80	8.64	1866.68	2.32	7863.00 100.00
663.06	6.13	2215.88	3.98	
767.79	2.05	3429.40	2.56	Target Nuclide= 66Zn
878.28	3.08	3900.18	2.95	Strongest G= 6960.00
1138.82	2.48	4117.22	2.15	5911.00 25.34
1158.83	2.27	4198.32	2.66	6390.00 4.13
1320.31	2.21	4326.66	2.07	6655.00 36.09
2497.89	2.48	4385.13	8.54	6867.00 66.12
4320.24	4.08	4401.69	2.51	6960.00 100.00
4658.53	2.33	4479.82	2.61	
5190.09	2.02	5043.00	14.29	Target Nuclide= 67Zn
5258.67	3.11	5047.98	8.54	Strongest G= 1077.35
5418.49	5.59	5245.88	17.80	578.54 3.00
6010.83	4.80	5320.23	15.00	805.75 12.11
6394.86	4.20	5853.41	2.71	864.17 2.00
6618.15	3.41	6048.84	4.17	1077.35 100.00
6674.85	6.01	6243.19	5.95	1126.07 6.51
6988.96	10.60	6600.66	35.12	1261.00 11.31
7177.07	7.73	6680.01	33.66	1339.96 12.60
7253.05	12.54	6790.64	6.41	1546.13 2.00
7307.31	27.07	7065.72	5.44	1673.29 7.31
7572.32	5.26			1744.16 4.11
7638.00	48.94	Target Nuclide= 64Zn		1883.09 18.71
7756.91	4.77	Strongest G= 7863.00		2106.83 2.00
7916.26	100.00	560.00	2.30	2209.75 4.91
		654.00	3.56	2418.50 2.60
Target Nuclide= 65Cu		751.00	24.48	2857.60 2.51
Strongest G= 186.01		770.00	3.14	3287.20 2.37
89.18	26.59	794.00	5.02	6262.60 2.33
186.01	100.00	864.00	3.77	6768.40 3.11
190.10	2.02	909.00	14.44	6910.60 6.00
237.82	9.76	932.00	2.93	7188.40 3.49
315.71	10.00	1260.00	3.77	7859.30 2.25
385.78	46.34	1294.00	4.60	8314.70 2.72
436.91	4.63	1350.00	12.55	9120.10 3.85
465.15	54.39	1416.00	3.35	
543.85	10.22	1578.00	2.51	Target Nuclide= 68Zn
768.30	2.44	1592.00	3.77	Strongest G= 1008.00
822.68	9.83	1826.00	7.95	436.00 34.89
831.20	6.61	2086.00	3.56	532.00 27.66
878.82	2.46	2212.00	5.02	760.00 7.23
937.51	2.78	2432.00	2.64	835.00 64.68
972.11	4.73	3150.00	2.09	1008.00 100.00

CAPTURE GAMMAS - ordered by nucleus

Page- 11

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %
Target= 68Zn cont.				
1180.00	17.02	4696.00	3.20	465.35
1218.00	5.53	4711.00	2.40	488.81
1252.00	14.47	4823.00	2.28	527.61
1452.00	3.40	4956.00	2.93	535.61
1595.00	10.21	5489.00	4.00	601.40
1812.00	8.51	5627.00	2.20	630.30
1830.00	5.96	5807.00	2.80	660.02
2312.00	10.21	6346.50	2.53	709.00
2344.00	19.15	6391.00	6.53	2068.00
2378.00	6.38	6513.60	5.33	2475.00
3192.00	2.13	7003.60	3.47	3804.00
3920.00	3.40			2.00
3972.00	2.13	Target Nuclide= 71Ga		2.00
4072.00	5.11	Strongest G= 145.09		2.60
4106.00	15.32	79.89	4.80	4338.00
4138.00	39.57	88.85	5.40	4375.00
4426.00	9.36	103.23	10.20	4476.00
4500.00	5.53	106.36	3.00	4543.00
4652.00	9.36	109.92	3.20	4792.00
4888.00	14.04	112.42	30.60	4839.00
5230.00	8.09	120.99	2.20	4867.00
5474.00	88.51	132.40	2.80	4890.00
5647.00	16.17	136.00	2.00	5160.00
6482.00	20.85	139.60	3.20	5196.00
		142.30	3.60	5223.00
		145.09	100.00	5234.00
Target Nuclide= 69Ga		153.76	6.00	5333.00
Strongest G= 508.40		163.16	4.00	5339.00
154.00	6.40	165.51	34.80	5601.00
187.50	41.33	181.57	8.00	5650.00
318.40	24.00	184.05	19.60	5691.00
362.00	2.93	191.98	39.00	5721.00
374.10	8.80	194.62	21.20	5780.00
393.00	17.33	197.92	27.40	5901.00
410.00	4.27	202.08	2.40	5919.00
427.00	3.87	210.33	3.60	6007.00
508.40	100.00	212.20	15.60	6110.00
574.00	4.27	228.88	8.20	6128.00
632.00	3.33	231.02	2.20	6190.00
646.00	4.93	246.84	2.00	6310.00
651.20	21.33	248.97	23.60	6322.00
691.00	64.00	257.33	3.40	6359.00
691.20	64.00	264.06	4.40	6519.00
755.00	2.67	266.13	6.80	
798.70	2.13	276.36	7.60	Target Nuclide= 70Ge
995.20	2.93	302.61	10.40	Strongest G= 499.85
1044.00	2.53	306.14	2.80	174.88
1135.00	6.00	313.82	4.00	247.30
1139.90	6.67	315.80	2.80	283.50
1203.00	3.47	376.40	4.20	306.20
1244.00	3.47	390.72	7.20	308.20
1312.00	4.00	393.26	12.80	326.00
1359.00	2.27	402.85	2.40	331.30
1456.00	2.27	408.09	2.80	350.10
1518.00	2.93	411.28	3.60	365.40
1725.00	2.00	444.70	4.00	391.30

CAPTURE GAMMAS - ordered by nucleus

Page- 12

E (g) (keV)	I (g) / I (g) (max) %	E (g) (keV)	I (g) / I (g) (max) %
Target= 70Ge cont.			
444.80	6.16	6276.25	5.40
457.20	3.13	6319.99	4.31
499.85	100.00	6584.32	2.61
517.70	6.64	6707.45	11.61
526.60	5.69	6915.68	9.57
561.80	4.31	7415.58	5.17
571.90	10.43		
615.40	6.64	Target Nuclide= 72Ge	Target Nuclide= 73Ge
632.20	3.93	Strongest G= 326.00	Strongest G= 595.85
639.40	4.03	53.47	492.94
708.16	48.34	68.75	595.85
747.00	6.16	233.60	100.00
788.70	8.06	284.70	608.35
798.30	4.31	297.24	22.44
808.20	8.53	316.90	701.49
831.30	29.38	326.00	6.19
851.00	7.58	430.20	867.90
883.50	6.16	432.70	59.12
886.40	5.21	474.00	939.23
916.60	5.69	485.30	3.15
920.20	5.69	488.00	961.05
935.10	5.21	528.40	14.49
1017.40	5.21	531.10	999.78
1033.70	2.94	541.80	1101.27
1095.80	37.91	560.30	15.59
1139.40	31.75	650.10	1105.56
1204.50	2.13	679.30	8.26
1298.80	29.38	739.40	1131.36
1378.80	9.95	757.50	5.63
1415.70	2.94	763.30	1204.21
1600.10	2.37	784.70	10.08
1632.00	10.90	913.70	1471.61
1743.20	2.94	961.60	7.21
1777.80	2.37	975.90	1489.33
1941.00	2.94	1250.10	2.65
1965.30	4.74	48.59	5.01
2033.00	6.64	5.49	2.61
2223.00	5.69	3140.80	1631.56
2351.00	4.74	3334.50	2.40
3375.50	3.13	3704.40	1635.49
3710.30	2.89	3789.90	1940.48
3845.90	2.09	3852.40	2073.71
3859.50	2.65	3898.40	5237.10
3991.10	2.13	4008.00	2.85
4032.80	2.75	4062.30	5368.00
4391.70	3.18	4076.60	4.81
4514.30	2.75	4217.90	6200.19
4881.81	3.93	4299.30	7091.21
5063.50	2.27	4363.50	2.93
5269.60	2.13	4381.20	5.01
5383.88	2.99	4492.00	8030.47
5450.71	6.78	4594.00	2.04
5817.15	7.16	4650.70	8732.01
6037.21	11.37	4890.70	
6116.86	10.66	5238.30	
		5518.30	
		5518.30	
		5650.86	
		5740.21	
		33.80	
			Target Nuclide= 74Ge
			Strongest G= 574.70
			111.80
			121.10
			124.70
			139.20
			177.30
			204.00
			223.70
			253.70
			299.70
			316.90
			316.90
			445.20
			445.80
			574.70
			737.10
			762.40
			841.60
			884.50

CAPTURE GAMMAS - ordered by nucleus

Page- 13

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target= 74Ge cont.		5912.85	100.00
928.10	13.46		6393.37
932.70	6.99		6403.80
1222.00	32.71	Target Nuclide= 75As	6419.41
1248.80	24.06	Strongest G= 6810.55	6465.13
1545.00	23.83	44.42	6526.21
3278.50	3.53	86.79	6535.03
3302.90	3.23	165.05	6542.76
3337.70	3.98	5533.91	6584.23
3348.30	2.71	5540.53	6588.12
3502.20	3.01	5546.02	6600.73
3538.70	2.93	5568.96	6620.61
3553.30	4.36	5580.19	6659.45
3607.50	3.31	5601.34	6690.83
3635.50	2.18	5614.96	6777.91
3745.30	2.33	5629.51	6784.42
3761.30	4.21	5645.72	6810.55
3826.10	2.11	5655.19	6822.13
3846.80	3.83	5663.78	6828.67
3934.90	3.46	5675.86	6857.62
4012.00	3.83	5684.18	6881.38
4194.30	4.06	5690.52	6926.64
4410.60	7.59	5698.03	6976.16
4436.40	11.35	5723.36	7020.15
4500.90	2.93	5757.19	7028.19
4706.00	26.32	5778.10	7063.67
4746.10	3.01	5786.79	7163.49
4815.00	4.44	5816.37	7207.56
4988.50	8.50	5834.19	7241.60
5000.30	9.77	5854.90	7284.10
5075.90	4.06	5869.64	
5088.00	15.49	5877.66	Target Nuclide= 74Se
5368.60	9.47	5884.71	Strongest G= 286.57
5420.50	3.46	5906.24	112.39
5621.10	6.32	5931.21	141.32
5743.80	2.26	5942.96	286.57
5831.20	3.98	5970.12	292.84
5930.90	10.38	5976.18	377.39
6252.10	46.09	5986.65	427.88
6505.60	11.73	6006.34	431.65
		6013.99	516.04
		6019.17	572.97
Target Nuclide= 76Ge		6027.52	608.70
Strongest G= 5912.85		6059.48	610.71
159.50	6.88	6098.00	676.07
195.60	3.23	6114.00	733.90
431.50	17.63	6142.79	839.88
808.20	48.39	6180.15	911.95
850.80	34.84	6203.57	952.12
3895.20	23.23	6223.06	962.63
4008.50	16.13	6231.25	978.81
4193.20	53.76	6294.88	1144.45
4514.30	5.16	6305.37	5570.93
4821.80	3.44	6343.37	6225.27
5049.10	58.06	6357.58	6437.80
5420.10	16.13	6370.04	7006.74
5444.70	5.38	6388.96	7734.12

CAPTURE GAMMAS - ordered by nucleus

Page- 14

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target Nuclide= 75Se			
Strongest G= 559.10			
472.81	3.64	6818.80	2.27
559.10	100.00	6853.22	6.36
563.18	3.64	6871.03	3.18
657.04	30.00	6896.38	8.64
665.36	2.27	6913.31	8.64
695.14	2.27	6935.23	4.55
771.76	25.00	6947.32	5.45
809.83	5.45	6953.60	3.18
954.51	3.18	6974.31	5.00
1129.85	12.73	7039.09	3.18
1147.53	5.00	7090.27	2.27
1159.73	6.36	7109.20	14.09
1212.91	12.73	7138.63	9.09
1216.11	21.82	7152.02	19.55
1228.62	8.18	7187.50	5.91
1568.02	3.18	7221.08	8.64
1596.34	2.27	7237.90	3.18
1787.83	2.27	7247.43	6.82
1853.00	3.18	7280.80	2.73
2110.00	3.18	7292.70	7.27
2949.00	3.18	7384.10	2.27
5215.00	7.27	7407.60	3.18
5949.33	3.18	7423.00	10.45
5958.52	7.27	7430.30	2.27
5977.60	4.09	7502.64	8.18
5984.50	2.73	7549.53	14.09
6014.00	15.91	7590.30	4.09
6121.81	18.64	7595.81	6.36
6156.50	3.64	7644.94	3.64
6249.16	4.09	7676.10	2.27
6265.54	8.64	7803.11	10.45
6274.60	2.27	7858.92	3.64
6281.19	5.00	7884.87	11.82
6292.44	5.91	7934.42	8.64
6332.95	8.18	7962.08	6.36
6402.34	9.55	7992.11	23.64
6480.09	4.09	8048.21	5.91
6535.41	3.18	8084.14	15.91
6551.03	4.09	8176.40	2.27
6565.11	2.73	8203.58	25.91
6577.03	4.09	8284.00	4.09
6631.00	6.36	8293.20	3.64
6664.88	11.36	8336.50	8.18
6669.70	2.73	8341.80	8.18
6680.00	5.91	8483.70	11.36
6695.37	2.27	8724.40	100.00
6715.50	5.00	9127.30	2.27
6729.30	2.73	9365.90	2.27
6737.17	4.09	9464.90	2.27
6752.16	2.73	9937.50	4.55
6769.90	24.55	10594.50	15.91
6784.43	7.73	Target Nuclide= 76Se	
6802.60	7.27	Strongest G= 239.00	
6807.80	6.82	87.87	13.58
		125.84	4.49

Page - 15

E(g) (keV)	I(g) %	I(g) / I(g) (max) %	E(g) (keV)	I(g) %	I(g) / I(g) (max) %
Target= 76Se cont.		9188.70	7.06	4955.89	5.49
3700.62	2.06	9883.50	10.74	5165.75	19.27
3859.01	2.02			5182.27	3.24
3882.92	2.72	Target Nuclide= 78Se		5224.11	16.00
3900.67	3.46	Strongest G= 6866.80		5436.64	7.85
3968.35	2.30	1772.60	18.91	5816.00	7.27
3972.96	2.47	2311.90	7.27	5873.79	34.91
4174.78	2.22	2380.77	8.36	6434.71	19.64
4185.94	2.51	2526.36	8.36	6462.00	2.91
4354.73	2.43	2539.60	10.91	6866.80	100.00
4378.25	5.14	2547.02	8.00		
4526.81	6.71	2552.18	6.55	Target Nuclide= 80Se	
4545.64	2.88	2697.24	5.09	Strongest G= 467.74	
4561.66	3.25	2738.70	4.36	102.89	2.53
4565.50	9.05	2742.40	4.73	467.74	100.00
4609.56	3.54	2806.36	3.27	491.33	14.12
4926.58	2.92	2811.25	4.36	765.04	3.51
4962.62	2.26	2830.04	2.91	835.74	2.51
5025.85	9.14	2848.47	6.18	949.65	2.85
5078.72	2.02	2874.92	8.00	1257.14	2.53
5154.47	3.25	2930.11	4.36	1406.70	2.96
5205.47	2.59	2935.20	3.27	1725.40	13.44
5600.99	18.85	2946.42	4.73	1784.80	2.05
5795.46	7.70	2954.31	3.64	2162.30	2.51
6006.97	17.86	2976.52	8.36	2570.00	3.12
6016.16	6.17	3096.60	2.18	2694.00	3.01
6231.57	6.13	3219.30	3.64	2731.30	2.44
6413.40	11.65	3236.93	4.36	2910.10	3.08
6600.73	38.68	3255.52	2.91	2966.00	2.46
7179.49	15.97	3286.30	3.64	3056.50	2.28
7418.47	22.63	3398.79	4.00	3175.40	2.64
		3410.70	2.55	3748.30	3.87
Target Nuclide= 77Se		3427.13	4.36	4366.20	4.56
Strongest G= 613.72		3457.52	2.73	4447.50	4.24
545.30	3.10	3472.20	4.00	4976.10	19.82
613.72	100.00	3614.50	2.47	6233.00	75.17
687.25	3.01	3682.70	4.65		
694.92	20.44	3732.90	3.85	Target Nuclide= 79Br	
884.86	4.63	3787.60	4.36	Strongest G= 37.05	
889.10	4.49	3793.80	3.27	37.05	100.00
1144.96	3.49	3878.00	2.40	50.11	2.29
1198.60	2.54	3891.40	2.07	59.47	31.37
1240.13	4.75	3903.10	3.02	195.60	23.62
1308.59	14.85	3931.40	3.20	211.60	2.36
1382.16	3.26	3961.40	2.07	219.38	19.56
1713.55	8.97	3983.00	3.82	223.63	8.12
1721.50	3.60	4000.10	5.42	234.32	10.70
1923.15	2.90	4059.10	8.00	236.45	2.18
1995.87	5.32	4081.30	4.07	244.24	18.82
6243.84	2.06	4129.30	2.58	245.20	39.85
6315.26	2.06	4274.20	3.89	271.37	23.25
6498.64	2.21	4300.80	8.15	274.53	8.12
7209.08	2.65	4438.40	2.22	294.35	5.61
8162.74	2.65	4517.20			

CAPTURE GAMMAS - ordered by nucleus

Page- 16

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target= 79Br cont.					
343.40	6.27	412.79	2.30	1116.14	2.08
366.62	14.02	417.26	3.06	1117.29	2.08
389.19	2.99	453.30	4.21	1125.66	6.78
432.24	4.50	465.94	8.74	1133.40	4.75
452.61	3.43	466.63	3.01	1149.49	2.35
459.78	2.47	479.93	2.68	1157.46	7.16
468.98	16.97	483.89	15.30	1168.82	3.01
542.52	6.27	495.04	11.48	1187.29	3.83
549.55	3.03	498.78	3.61	1193.47	3.22
608.82	2.36	512.49	7.65	1198.10	2.24
660.59	4.50	541.90	2.35	1201.11	4.37
690.05	4.54	542.07	3.83	1230.20	2.62
702.06	3.62	549.30	3.28	1260.23	2.73
721.46	2.07	565.41	4.32	1364.88	2.35
765.91	3.25	566.10	18.58	1405.05	2.08
815.40	2.51	570.18	2.13	1539.99	2.51
830.74	3.14	581.30	3.50	1542.68	2.68
860.38	2.07	582.49	3.06	1545.27	3.17
914.47	3.06	595.20	2.02	1547.43	4.10
1055.34	2.29	608.12	8.74	1549.75	5.30
1248.75	3.10	609.35	3.28	1551.93	6.61
1555.35	2.07	620.10	3.55	1554.57	7.43
5509.50	2.58	621.27	2.68	1650.42	4.75
5916.70	2.18	641.77	2.13	1667.79	2.08
6356.50	2.29	643.29	2.24	1831.82	3.77
7031.74	2.95	684.88	10.93	1864.76	2.73
7078.44	3.51	688.65	2.30	2004.05	3.28
7423.35	3.62	702.65	2.68	2030.38	5.25
7577.60	8.12	716.18	16.07	2170.97	3.22
		717.71	12.84	2265.20	6.12
		735.06	3.01	2330.43	2.13
Target Nuclide= 81Br					
Strongest G= 29.11					
29.11	100.00	746.91	3.22	2361.13	2.51
184.64	11.48	766.53	3.11	2397.53	2.08
208.63	2.90	771.60	5.74	2417.69	2.46
221.10	3.11	774.10	4.75	2955.30	2.02
225.22	2.40	781.39	3.01	3411.24	2.02
244.83	53.01	786.70	2.24	3652.63	2.02
250.21	6.99	815.00	4.54	3674.01	2.51
264.43	12.57	816.48	2.73	4159.72	2.46
278.36	5.19	838.99	2.40	4234.47	2.46
287.74	91.80	856.12	4.04	4245.98	2.62
315.77	7.87	866.63	2.73	4552.96	4.04
316.85	3.39	880.75	4.15	4618.87	3.17
329.76	2.35	891.13	3.44	4712.17	2.40
339.88	4.21	895.86	8.63	4896.59	2.62
345.01	48.09	910.74	17.70	4908.03	2.19
346.99	2.68	932.76	4.54	4939.13	4.75
350.38	2.51	952.26	2.84	5017.09	2.90
356.73	3.11	968.80	2.08	5054.61	6.83
369.58	2.51	976.49	11.37	5094.00	2.73
374.12	5.41	1012.96	7.60	5100.33	2.57
397.13	4.04	1034.68	6.99	5116.36	6.07
400.93	8.36	1037.11	2.57	5131.14	6.72
402.74	5.36	1073.93	3.50	5183.03	4.75
		1079.99	9.40	5252.20	11.31
		1101.70	2.68	5285.99	5.08

CAPTURE GAMMAS - ordered by nucleus

Page- 17

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target= 81Br cont.				
5413.64	2.40	1077.55	2.27	176.10
5439.42	3.17	1124.44	6.83	198.80
5471.06	2.90	1213.42	39.90	223.90
5534.00	5.79	1463.86	34.20	240.40
5556.84	4.97	1543.27	2.34	323.10
5652.62	8.80	1712.11	3.10	361.80
5685.72	4.70	1741.70	2.10	421.60
5689.43	3.61	1897.79	10.81	488.00
5697.79	5.14	1979.34	5.17	514.80
5725.18	5.03	2160.48	2.78	525.20
5837.47	2.62	2675.40	2.12	530.00
5849.39	9.73	3529.21	3.51	536.90
5912.91	8.80	4394.10	2.19	538.90
6042.76	8.63	4892.90	3.00	555.30
6104.24	16.56	6306.80	2.30	557.00
6116.47	4.81	6519.10	4.20	564.90
6222.16	8.03	6803.50	3.10	569.10
6349.15	11.69	6880.70	6.70	669.10
6360.20	5.30	6931.70	2.60	691.90
6366.21	3.93			727.80
6413.58	10.00	Target Nuclide= 86Kr		748.60
6437.72	14.26	Strongest G= 1475.94		817.30
6452.70	3.55	181.59	8.00	873.20
6482.95	3.44	341.30	17.00	882.00
6570.28	3.06	531.91	80.00	913.80
6604.50	2.19	773.10	10.00	944.70
6621.89	3.28	866.15	37.00	1026.90
6745.99	8.09	892.15	26.00	1032.80
6769.88	3.28	944.20	13.00	1105.30
6830.60	2.08	1055.40	11.00	1177.80
6951.51	4.81	1064.80	7.00	1221.00
7051.75	3.44	1304.90	17.00	1305.20
7172.63	20.55	1475.94	100.00	1389.60
7229.91	6.17	1839.80	21.00	1440.00
7301.90	6.61	2005.20	10.00	1667.90
7546.83	4.64	2062.90	25.00	1889.30
		2122.40	29.00	2130.00
		2295.20	33.00	2149.70
Target Nuclide= 83Kr		2331.50	11.00	2570.40
Strongest G= 881.74		2348.20	31.00	2585.70
87.70	3.40	2887.80	26.00	5760.70
140.00	2.16	3143.30	45.00	5885.70
198.40	2.01	3392.60	85.00	5980.20
367.70	2.56	4039.60	43.00	6064.50
419.40	3.03	4983.10	28.00	6188.70
425.30	14.24			6352.00
448.11	2.84	Target Nuclide= 85Rb		6385.00
473.10	4.01	Strongest G= 557.00		6471.20
612.00	2.01	53.90	7.37	6520.30
802.62	7.31	60.90	12.11	6831.40
881.74	100.00	85.90	6.32	7345.80
938.12	2.16	96.30	3.16	7623.90
943.36	3.43	114.10	6.84	
946.50	2.15	120.30	3.68	
963.44	3.18	139.30	4.21	
1016.20	5.20	165.70	10.53	

CAPTURE GAMMAS - ordered by nucleus

Page- 18

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target Nuclide= 86Sr				
Strongest G= 484.79				
355.08	3.83	5302.56	4.55	1515.24
380.57	4.83	5361.55	33.45	1538.09
484.79	100.00	5408.78	19.31	1556.79
542.04	4.69	5577.42	4.83	1698.85
865.41	23.45	5751.14	7.00	1807.59
911.33	4.79	6013.36	12.21	1810.64
1228.41	31.72	6258.38	4.69	1847.36
1236.71	17.24	6317.80	7.24	1856.74
1296.01	16.21	7554.39	4.62	1913.61
1541.19	3.79	8039.18	83.45	1940.17
1547.07	2.41			10.77
1721.59	3.21			1987.96
1765.21	4.66	Target Nuclide= 87Sr		2.13
1770.46	15.52	Strongest G= 1836.03		14.10
1812.35	5.48	434.92	2.08	2007.60
1915.97	2.86	585.63	4.70	2023.14
1919.94	2.86	850.65	21.36	12.31
1977.09	10.00	898.04	56.00	3.36
1995.44	4.10	934.49	2.09	2105.80
2026.00	17.93	1218.51	5.92	2113.10
2145.84	3.07	1368.67	3.30	3.38
2193.01	13.79	1382.39	2.15	5.92
2251.86	3.38	1534.44	3.50	2.05
2288.20	8.97	1565.49	2.40	2369.54
2485.08	2.45	1706.65	2.46	2.36
2552.20	4.17	1717.77	7.44	2.72
2617.13	3.24	1799.10	3.65	24.36
2618.91	2.21	1836.03	100.00	2.23
2630.66	15.52	2111.39	2.57	8.21
2677.83	9.66	2202.96	3.05	3.08
2902.61	2.07	2276.53	3.63	2.49
3036.80	2.24	2391.16	4.02	2.97
3218.39	2.14	2577.86	2.09	5.54
3321.61	4.17	3009.42	4.56	3.85
3360.41	2.34	6101.72	4.35	3.26
3365.18	2.48	6266.90	7.05	2.72
3386.99	3.00	6660.40	5.70	2.33
3463.82	3.45	6885.12	4.25	3.62
3560.99	2.03	6941.85	4.37	2.85
3638.25	3.93	7527.51	6.24	5.85
3644.36	3.69			2.38
3677.83	3.17	Target Nuclide= 88Sr		4.03
3688.68	2.24	Strongest G= 1031.96		6.79
3784.27	3.72	560.74	5.38	24.62
3876.74	4.59	846.73	30.77	3.03
3992.26	3.83	912.82	3.85	13.85
4091.04	4.17	934.55	43.59	2.72
4203.95	3.62	1031.96	100.00	6.49
4231.32	2.55	1169.27	8.97	10.97
4245.65	3.48	1228.90	2.28	
4263.15	9.00	1248.21	28.21	
4347.22	2.28	1319.83	2.15	
4652.28	6.00	1326.38	5.13	
5276.54	4.07	1403.34	2.82	
		1405.22	13.85	
		1419.56	4.36	
		1473.29	7.18	

CAPTURE GAMMAS - ordered by nucleus

Page- 19

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target Nuclide= 89Y		1426.80	100.00	689.91 6.06
Strongest G= 6080.49		1641.50	25.79	693.76 3.00
202.61	30.30	1650.00	26.32	751.78 4.58
574.17	24.25	1826.70	23.16	755.28 4.19
776.70	95.44	1916.20	18.42	775.99 5.42
1211.65	6.36	2474.40	31.58	782.57 2.12
1371.21	4.54	2531.40	30.00	812.46 2.91
1416.68	3.18	3274.40	18.42	835.72 12.71
1558.56	2.58	3458.10	47.37	876.41 2.46
1571.82	2.27	3551.60	11.58	878.85 6.70
1641.07	2.58	3639.50	22.11	879.75 2.51
1815.13	3.78	4204.20	16.32	883.80 6.60
2546.83	3.34	4262.60	11.05	894.24 6.50
2749.34	4.09	4278.30	51.05	897.00 4.88
3301.44	2.27	5312.20	52.63	911.56 6.06
4107.76	7.27	6470.00	31.58	944.55 2.56
5645.65	2.58	6735.00	31.58	946.84 16.16
6080.49	100.00			957.34 8.82
Target Nuclide= 90Zr		Target Nuclide= 94Zr		1007.80 2.27
Strongest G= 1466.00		Strongest G= 2294.00		1052.90 2.22
1205.00	67.57	1619.00	85.00	1100.11 2.86
1466.00	100.00	2254.10	85.00	1107.42 2.86
1880.00	25.68	2294.00	100.00	1118.00 4.09
2041.00	52.70	3117.40	20.00	1119.10 11.33
2533.00	6.08	Target Nuclide= 93Nb		1120.40 3.15
2557.00	26.35	Strongest G= 99.41		1122.65 2.22
2576.00	26.35	17.98	25.12	1129.02 5.47
2639.00	16.89	54.71	3.00	1160.00 2.32
2694.00	35.14	56.49	2.76	1188.30 2.02
3082.00	15.54	57.54	4.43	1192.20 4.33
3475.00	31.08	78.67	11.92	1206.52 7.54
3983.00	24.32	99.41	100.00	1222.98 3.60
Target Nuclide= 91Zr		113.40	52.46	1228.21 3.30
Strongest G= 934.46		138.61	4.53	1239.38 3.00
448.22	4.80	161.26	6.45	1291.30 3.60
492.37	2.42	253.11	45.57	1308.10 2.22
560.96	22.50	254.85	2.46	1392.40 2.96
844.19	6.10	255.93	61.08	1419.60 6.11
902.86	3.40	270.46	2.46	1441.20 3.45
912.76	9.20	293.20	22.07	1459.60 4.93
934.46	100.00	309.91	22.86	4015.90 2.41
990.54	2.70	329.17	4.09	4130.30 2.02
1132.13	7.60	337.53	20.15	4738.97 5.27
1405.16	23.20	355.36	2.32	4791.59 2.12
1847.26	4.60	455.96	3.00	4827.62 2.32
1988.75	2.63	458.46	8.08	4913.62 2.61
2105.13	2.11	484.36	2.17	5070.26 2.96
2693.80	4.00	499.43	21.77	5103.33 7.68
Target Nuclide= 92Zr		518.12	20.05	5179.99 2.66
Strongest G= 1426.80		525.77	2.76	5193.37 4.19
267.10	7.89	527.57	4.19	5207.94 2.41
335.80	2.11	562.34	9.85	5252.51 2.96
433.60	2.11	590.60	3.10	5307.93 2.51
		635.99	2.22	5348.56 2.41
		642.59	2.17	5363.80 2.22
				5496.15 6.75

CAPTURE GAMMAS - ordered by nucleus

Page- 20

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target= 93Nb cont.		4027.80	3.81	Strongest G=	180.70
5591.32	2.56	4543.10	7.14	13.49	71.56
5894.93	6.16	5305.10	2.43	43.51	21.74
6831.18	6.01			81.12	36.42
7186.54	3.35	Target Nuclide= 97Mo		113.93	4.86
		Strongest G= 787.42		118.56	4.86
Target Nuclide= 92Mo		259.01	4.47	125.06	4.77
Strongest G= 7126.18		644.89	9.35	138.40	2.02
6577.67	30.83	672.63	2.53	140.80	2.20
7126.18	100.00	713.88	2.58	147.93	3.76
8069.13	13.75	722.70	30.65	157.47	74.50
		787.42	100.00	180.70	100.00
Target Nuclide= 94Mo		791.50	2.00	181.50	2.94
Strongest G= 7165.00		971.01	4.68	185.96	2.57
4877.00	8.20	1023.60	7.74	216.82	2.20
5155.00	11.30	1230.23	15.81	223.80	3.39
5323.00	2.60	1285.42	2.19	230.18	2.48
5922.00	13.00	1317.40	3.06	233.30	2.66
6045.00	7.70	1419.39	2.53	234.10	3.12
6326.00	13.00	1432.31	7.90	236.78	11.56
6721.00	14.00	1545.95	3.87	237.55	87.16
7165.00	100.00	1774.70	2.26	274.90	6.06
		2017.40	3.03	276.10	52.11
Target Nuclide= 95Mo		5874.72	2.02	277.98	4.40
Strongest G= 778.26		6624.80	16.94	280.25	33.76
608.67	5.81			281.05	41.74
719.53	14.35	Target Nuclide= 98Mo		283.50	3.85
736.86	5.65	Strongest G= 97.60		287.86	2.75
778.26	100.00	97.60	100.00	289.63	6.15
847.67	17.10	139.80	28.57	292.00	3.67
849.95	21.45	174.80	17.14	293.81	18.62
1091.30	10.11	197.40	2.00	294.59	40.09
1200.10	5.55	253.30	31.43	305.50	67.89
1317.33	4.50	264.10	14.86	309.00	6.79
1497.84	6.06	351.00	45.71	311.21	2.11
2663.80	2.00	379.74	4.00	329.93	3.76
5712.30	2.94	385.50	2.29	335.34	2.02
6919.40	6.77	427.60	6.57	351.60	18.26
		450.90	15.71	358.41	3.94
Target Nuclide= 96Mo		525.60	12.57	364.99	2.02
Strongest G= 481.00		534.30	10.86	369.79	3.67
118.60	3.81	548.90	2.29	388.59	4.22
238.40	7.14	631.80	19.14	392.90	2.29
407.20	15.24	656.00	6.00	395.80	3.49
481.00	100.00	674.10	7.14	398.00	3.94
658.30	4.29	928.70	6.57	399.00	4.59
679.60	24.29	1100.80	14.29	406.80	3.21
720.50	52.38	3333.10	4.57	412.10	3.58
1008.50	3.10	3996.00	8.00	415.90	2.57
1024.00	2.38	4461.00	4.00	420.43	4.95
1091.90	10.00	4902.20	5.14	436.70	2.48
1265.20	5.71	5020.50	4.86	441.01	17.80
1284.80	4.29	5576.40	6.57	454.00	3.03
2152.40	2.10	5926.50	7.14	459.00	3.03
2512.90	2.48			466.35	16.88
3813.10	3.43	Target Nuclide=100Mo		480.10	11.01

CAPTURE GAMMAS - ordered by nucleus

Page- 21

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=100Mo	cont.	1030.85	8.53	263.55	10.66
526.55	16.97	1042.60	11.01	276.55	6.35
539.60	5.50	1052.80	7.34	299.48	23.57
540.21	9.82	1054.40	6.42	300.93	4.34
554.20	2.39	1084.80	2.39	338.96	5.14
555.34	16.06	1097.48	7.71	344.88	2.52
560.30	3.49	1107.90	3.85	384.99	2.15
567.40	8.72	1119.90	11.01	399.15	2.27
569.17	6.15	1153.00	6.42	470.68	2.13
583.96	14.50	1157.50	7.16		
586.40	10.09	1229.70	2.84	Target Nuclide= 99Ru	
603.69	2.39	1287.30	3.58	Strongest G= 539.66	
608.21	12.94	1300.32	5.60	302.07	2.40
623.38	4.31	1405.57	5.23	403.28	2.70
626.17	2.02	1433.20	12.39	539.66	100.00
631.79	2.39	1447.70	3.58	590.92	2.40
639.62	3.49	3289.10	7.16	687.00	26.00
645.70	3.58	3420.60	3.21	822.61	5.70
651.10	2.66	3537.80	14.50	1341.46	4.80
664.90	3.12	3552.00	3.39	1361.96	3.20
679.40	2.48	3572.60	11.74	1627.18	4.30
682.90	4.31	3698.70	17.52	5566.77	2.00
691.70	3.94	3711.70	10.73	5737.66	2.30
695.00	10.09	3762.10	11.28	5811.97	2.00
696.20	9.17	3778.60	8.35	5893.43	4.30
697.70	2.75	3837.40	7.06	5941.27	3.20
707.50	2.57	3938.50	6.33	6002.96	2.20
716.41	33.03	3950.90	15.41	6209.99	6.20
719.67	12.11	4048.50	13.49	6298.11	4.10
722.44	9.72	4106.70	38.26	6324.70	4.30
737.00	4.13	4298.80	3.39	6340.45	10.70
757.80	2.66	4387.30	24.31	6346.55	3.40
760.10	2.02	4495.30	3.21	6372.36	3.10
765.90	6.42	4543.80	4.22	6608.40	2.30
783.60	3.49	4829.40	5.69	6689.80	5.60
790.00	2.48	5103.70	62.39	6795.53	2.20
797.10	5.50	5398.10	4.59	7006.73	2.30
806.70	2.84			7102.90	10.00
810.80	4.86	Target Nuclide= 99Tc		7505.90	6.30
823.08	5.50	Strongest G= 172.15		7610.17	4.90
840.63	3.12	62.89	4.55	8310.63	2.20
853.10	5.23	63.85	2.05		
854.10	4.86	75.53	4.92	Target Nuclide=100Ru	
902.98	4.86	86.85	3.32	Strongest G= 6267.00	
918.50	4.59	90.68	2.19	3406.60	8.70
924.51	3.03	91.41	7.56	3516.10	11.59
926.30	3.67	105.71	4.80	3923.60	11.59
929.10	4.22	166.68	2.52	4033.50	18.84
940.40	6.15	168.83	3.69	4142.40	23.19
962.40	4.04	172.15	100.00	4176.50	8.70
967.90	12.29	196.44	3.07	4187.00	17.39
970.90	10.28	213.20	3.61	4200.70	5.80
972.60	29.36	217.14	3.05	4241.10	23.19
973.40	8.81	223.47	10.06	4475.20	20.29
1007.80	4.31	225.38	4.59	4484.30	31.88
1025.02	3.49	252.22	2.58	4715.30	43.48

CAPTURE GAMMAS - ordered by nucleus

Page- 22

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=100Ru cont.		630.00	2.72	1716.50	4.32
4785.00	4.35	639.00	2.72	1730.30	8.56
4805.00	21.74	658.80	4.96	1732.00	4.16
4831.00	5.80	660.50	2.24	1838.90	4.00
4840.50	7.25	661.50	7.04	1859.60	2.32
4921.90	34.78	733.30	2.24	1880.10	2.16
4958.60	5.80	736.90	7.44	1889.80	4.64
5302.70	59.42	769.20	3.12	1937.80	2.00
5826.60	13.04	771.50	4.08	1959.50	5.12
6081.80	2.90	774.90	5.12	2027.80	2.72
6267.00	100.00	803.80	2.08	2031.80	2.16
6674.80	7.25	805.20	2.32	2075.60	2.56
		830.60	2.48	2100.60	2.40
Target Nuclide=102Ru		863.10	6.40	2180.40	2.72
Strongest G= 174.00		868.20	3.92	2204.80	2.72
133.40	3.76	870.70	2.08	2223.80	12.00
136.10	97.60	874.10	4.00	2304.60	2.56
160.10	2.24	902.50	3.44	2315.50	2.00
171.30	3.52	904.90	5.84	2341.00	2.40
174.00	100.00	907.40	4.08	2449.00	4.08
201.80	2.80	932.40	4.72	2481.90	2.24
210.20	15.04	937.50	7.44	2505.00	2.00
210.60	24.80	978.00	2.56	2549.30	2.56
246.10	3.12	994.90	2.56	2577.10	3.36
250.50	28.48	1001.20	2.16	2619.50	4.96
257.50	4.16	1034.40	3.52	2765.90	2.56
269.90	7.60	1043.10	2.72	2830.00	2.00
270.40	31.44	1048.10	2.32	2892.00	4.56
287.30	3.84	1050.30	2.56	3053.50	5.60
294.40	69.60	1076.40	2.16	3164.70	4.80
314.90	3.52	1104.60	2.40	3287.00	2.56
343.30	7.92	1172.10	2.08	3290.80	2.00
346.20	31.92	1180.80	3.60	3320.10	5.36
359.00	9.68	1183.90	2.96	3347.70	2.80
365.00	2.08	1198.60	7.28	3358.20	4.48
373.90	4.64	1209.50	2.24	3655.80	10.08
378.40	11.20	1233.20	4.16	3675.30	5.68
380.30	4.08	1240.60	2.00	3714.90	4.08
388.50	7.12	1243.20	2.48	3724.30	2.56
403.10	35.68	1246.20	5.28	3749.40	2.88
417.90	2.88	1288.30	2.88	3764.90	3.12
428.80	3.76	1298.40	3.20	3787.50	2.72
432.00	28.48	1310.50	2.16	3859.60	2.16
455.90	5.12	1321.20	2.56	3947.10	7.04
487.20	3.52	1332.20	10.16	4008.80	12.16
501.20	12.56	1343.70	3.04	4025.60	14.32
539.60	4.64	1369.60	5.60	4065.30	6.88
545.50	22.80	1400.60	3.76	4159.10	2.24
554.60	25.84	1430.00	4.88	4166.90	2.64
562.90	22.16	1461.60	2.16	4218.10	7.52
568.40	2.16	1481.10	2.16	4236.30	3.36
576.20	2.80	1484.50	2.16	4260.80	7.20
589.30	6.88	1564.30	3.60	4269.90	16.00
592.10	7.28	1581.10	2.56	4326.00	7.04
623.40	3.92	1604.40	7.60	4331.60	2.32
625.80	10.40	1699.60	5.44	4351.30	18.16

CAPTURE GAMMAS - ordered by nucleus

Page- 23

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=102Ru cont.		540.60	4.29	5125.50	20.67
4396.00	9.36	562.70	3.13	5415.00	17.67
4501.50	6.32	565.02	22.70	5444.00	9.63
4514.80	5.68	578.00	9.82	5528.00	3.07
4627.40	22.24	618.00	3.44	5588.40	23.31
4800.90	3.52	631.30	8.47	5637.10	4.91
4830.80	5.36	640.34	65.03	5750.70	9.82
4884.70	4.64	646.25	5.77	5787.00	2.33
5457.60	3.36	684.00	2.09	5889.00	6.75
5668.90	2.88	686.95	2.15	5909.90	22.09
5885.50	2.48	714.10	4.29		
		739.35	5.52	Target Nuclide=103Rh	
Target Nuclide=104Ru		757.20	5.09	Strongest G= 217.85	
Strongest G= 143.21		792.40	3.19	180.84	3.49
20.56	26.99	797.40	2.27	217.85	100.00
55.85	4.91	824.45	4.17	3725.18	2.02
75.25	13.50	878.50	2.39	3823.12	2.08
82.49	38.04	1004.10	3.50	3849.80	2.07
107.92	84.66	1008.20	3.25	3859.14	2.22
113.34	6.75	1090.70	5.09	3931.70	2.03
138.36	39.26	1131.80	4.29	3948.72	2.11
143.21	100.00	1135.30	2.58	3969.56	2.68
157.81	17.79	1159.50	2.52	4023.40	3.00
159.30	93.87	1534.10	5.52	4135.13	3.05
162.25	4.29	1575.30	2.39	4249.61	2.10
169.18	3.87	1910.50	2.33	4273.60	2.57
174.26	4.91	2039.60	4.17	4305.21	2.69
208.89	4.91	2088.60	2.15	4329.27	2.21
213.66	9.14	2092.40	2.27	4358.41	2.07
225.70	21.47	2156.40	4.60	4447.59	3.72
242.45	2.27	2162.10	3.80	4483.33	3.86
252.07	32.52	2288.90	5.89	4488.66	2.46
272.65	19.63	2307.80	2.82	4506.46	2.33
280.26	6.50	2392.70	2.21	4542.32	2.32
300.92	5.46	2440.40	5.03	4546.81	2.58
301.61	2.15	2451.80	5.34	4598.64	2.83
305.05	3.07	2578.00	2.76	4604.29	2.21
306.76	9.20	2721.10	2.64	4631.62	3.30
309.51	2.58	3300.90	3.37	4633.18	2.03
314.75	2.45	3345.30	3.80	4636.43	2.82
321.50	53.37	3405.70	3.37	4668.17	2.86
322.38	5.52	3475.00	2.58	4727.30	3.47
331.64	3.07	3482.50	4.79	4836.08	4.57
333.28	2.09	3492.30	4.05	4851.05	2.33
333.90	4.29	3506.10	7.85	4860.93	2.66
352.78	3.19	3531.70	2.58	4902.54	2.72
357.94	8.59	3539.50	2.21	4915.76	5.04
358.51	3.07	3720.70	2.09	4926.16	3.05
439.00	3.74	3761.70	7.06	5006.24	2.74
442.00	9.82	4174.80	16.01	5020.64	2.07
445.60	6.75	4216.60	8.96	5108.80	3.02
462.89	34.36	4580.10	2.70	5153.61	7.02
466.20	6.13	4584.40	10.43	5158.11	2.14
480.10	3.19	4943.70	3.68	5202.70	2.25
490.78	15.34	5023.40	76.69	5205.23	5.32
539.44	6.13	5107.90	6.75	5238.29	2.71

CAPTURE GAMMAS - ordered by nucleus

Page- 24

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=103Rh cont.		298.20	4.24	
5266.40	12.72	320.16	9.36	Target Nuclide=110Pd
5322.80	2.19	325.28	41.08	Strongest G= 4902.50
5346.65	16.15	326.87	16.46	1691.40 46.27
5349.46	3.22	333.96	21.58	2241.00 74.63
5434.96	3.47	336.58	7.07	3094.80 37.31
5464.92	2.14	339.53	38.38	3288.00 58.21
5508.50	2.03	358.70	2.86	3488.00 89.55
5522.30	7.09	359.43	23.13	3499.00 44.78
5527.77	2.97	378.19	8.18	3524.40 29.85
5547.87	4.04	396.76	3.43	3624.00 74.63
5616.83	4.07	414.34	2.02	3712.00 23.88
5674.70	2.78	426.14	3.94	3867.70 40.30
5798.46	6.04	428.40	6.40	4174.30 73.13
5813.04	4.47	433.55	19.83	4902.50 100.00
5916.99	16.15	455.70	2.59	
6046.76	10.72	461.19	4.41	Target Nuclide=107Ag
6110.01	3.55	491.58	3.23	Strongest G= 79.14
6172.36	9.37	601.58	5.25	46.44 12.46
6211.60	9.36	623.47	2.09	74.52 7.21
6303.36	2.41	685.91	7.68	78.52 6.07
6354.89	5.51	722.03	4.71	79.14 100.00
6785.70	5.80	754.91	8.99	101.48 5.25
6998.77	2.07	810.55	4.88	102.31 2.08
		831.57	3.94	113.60 5.57
Target Nuclide=105Pd		846.33	3.74	113.80 5.41
Strongest G= 511.86		966.44	2.63	117.89 16.39
429.65	2.87	1019.87	4.21	178.42 2.85
511.86	100.00	3168.70	2.26	193.08 27.38
616.23	18.73	3229.10	3.43	201.02 3.18
622.02	3.80	3738.70	6.50	201.75 3.33
717.44	20.67	3911.50	4.44	206.61 40.49
748.45	2.07	3925.50	2.86	215.38 15.90
804.38	2.27	4033.90	4.88	239.32 3.51
1045.93	6.40	4066.00	3.37	259.28 15.41
1050.42	7.07	4129.10	3.37	294.56 17.87
1128.11	6.27	4230.00	3.37	300.10 10.33
1572.60	4.07	4238.50	2.86	329.18 5.97
		4312.60	4.48	508.47 2.51
Target Nuclide=108Pd		4425.30	2.86	527.38 2.26
Strongest G= 113.40		4443.70	2.53	599.96 2.51
94.45	11.68	4509.20	3.67	626.56 3.03
98.26	5.56	4538.00	2.19	636.66 2.16
113.40	100.00	4552.10	2.02	7076.18 2.62
152.94	32.05	4674.10	2.22	7269.36 2.95
178.03	24.24	4775.70	3.94	
188.99	5.56	4794.00	23.00	Target Nuclide=109Ag
200.15	4.04	4920.30	5.99	Strongest G= 198.69
211.88	11.31	5006.10	2.15	68.55 4.00
215.39	2.26	5099.70	2.53	72.90 11.89
245.08	51.85	5211.80	9.23	79.85 12.86
249.24	6.53	5431.70	3.94	93.40 6.76
264.98	4.51	5480.30	4.34	105.82 14.59
266.35	9.26	5720.30	7.14	117.61 54.05
276.30	10.98	5828.60	6.43	152.76 3.35
291.43	20.30	5887.50	2.53	166.71 2.86

CAPTURE GAMMAS - ordered by nucleus

Page- 25

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=109Ag cont.					
194.61	5.41	276.09	15.42	96.07	53.43
195.51	5.41	287.73	86.67	112.46	3.43
198.69	100.00	306.87	25.83	126.37	12.11
220.35	2.16	310.54	2.38	140.46	6.03
220.85	2.16	311.65	100.00	141.17	6.72
235.74	56.76	312.72	2.88	155.27	6.96
237.05	16.22	322.29	4.67	162.39	72.06
266.11	2.70	340.25	37.50	171.07	8.53
267.22	27.57	378.01	4.25	173.89	10.78
268.96	7.57	412.41	4.21	175.07	2.45
359.51	6.76	435.35	3.25	186.21	67.65
360.62	6.76	437.16	3.67	202.60	5.05
380.09	2.11	451.42	8.04	234.60	2.11
381.20	8.92	472.50	5.00	235.28	9.36
		502.60	4.92	272.97	100.00
		527.42	2.17	284.90	13.14
Target Nuclide=111Cd					
Strongest G= 617.54		538.20	3.42	290.95	7.65
606.85	5.20	570.94	3.67	293.64	2.94
617.54	100.00	693.00	14.58	295.52	8.77
798.07	6.00	719.60	3.79	298.66	28.92
851.20	7.50	725.40	2.21	305.13	2.94
1468.87	4.40	728.40	2.38	315.01	2.06
		775.05	8.42	320.91	4.46
		793.16	2.38	335.46	28.92
Target Nuclide=113Cd					
Strongest G= 558.46		798.10	2.33	337.72	7.65
558.46	100.00	813.30	2.13	375.95	8.14
576.08	6.01	825.70	9.17	379.58	3.04
651.26	18.94	841.60	4.58	384.41	8.82
725.30	5.99	843.20	2.25	385.10	28.43
805.89	6.87	872.30	2.33	410.39	2.25
1209.71	5.58	874.40	2.33	422.20	4.31
1283.49	2.27	906.80	3.75	433.71	17.35
1364.34	6.24	914.00	4.17	471.82	12.35
1399.64	4.64	918.00	8.75	474.22	2.01
1489.56	3.20	940.40	2.38	475.88	4.41
1660.37	3.75	1013.70	3.08	490.03	2.40
2550.10	2.06	1059.80	3.33	492.53	8.68
2660.10	3.72	1089.50	5.00	517.95	8.33
5824.60	3.97	1102.70	4.58	521.59	5.49
		1119.70	2.88	548.69	5.69
		1151.90	3.46	555.45	2.45
Target Nuclide=113In					
Strongest G= 311.65		1225.90	2.25	556.15	4.90
30.73	24.17	1239.70	2.46	556.75	9.80
34.36	10.42	1253.70	2.71	559.93	2.01
38.13	10.83	1267.70	4.13	567.75	2.75
92.83	3.04	1333.20	2.50	577.51	5.25
105.45	2.42	1344.20	2.00	602.30	7.84
121.97	43.33	6254.90	2.75	608.36	9.22
139.29	27.92			632.40	3.92
147.31	14.58	Target Nuclide=115In		634.07	3.77
150.10	2.50	Strongest G= 272.97		647.98	2.60
156.42	3.42	22.80	22.06	657.15	3.53
190.29	3.67	60.92	66.18	693.44	3.58
196.43	4.25	85.57	76.96	718.96	3.33
261.56	3.33	95.38	2.94	730.85	4.12
		96.04	34.31	749.62	4.07

CAPTURE GAMMAS - ordered by nucleus

Page- 26

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=115In cont.		966.00	100.00	124.03	4.72
758.89	2.94	1041.10	37.00	141.44	7.75
764.54	4.31	1051.40	19.00	148.24	34.01
771.00	3.58	1060.70	10.00	148.65	2.11
791.50	3.28	1091.70	52.00	166.45	9.58
796.40	2.16	1100.70	63.00	184.05	3.94
801.15	2.25	1121.20	90.00	194.08	6.90
814.07	2.55	1141.70	17.00	201.59	11.76
819.50	2.45	1254.50	27.00	204.56	4.58
822.60	2.89	1403.50	100.00	229.71	2.75
847.53	5.15	1653.00	38.00	232.19	5.00
885.06	2.65	1816.60	100.00	233.17	11.97
903.70	3.14	1852.30	50.00	255.50	3.94
915.32	2.25	1899.90	29.00	272.27	2.46
934.11	2.65	2103.70	56.00	274.00	3.94
944.27	5.10	2113.60	100.00	282.64	33.80
947.69	2.70	2163.70	17.00	286.52	4.44
963.11	2.40	2242.80	83.00	330.55	3.94
968.94	2.11	2285.20	100.00	332.28	8.31
972.52	4.41	2524.00	100.00	378.13	5.85
992.10	2.75			419.92	8.17
1023.37	2.55	Target Nuclide=124Sn		422.22	2.82
1077.09	4.22	Strongest G= 187.63		448.70	3.24
5892.50	4.22	187.63	100.00	485.43	2.11
		616.40	100.00	491.22	4.15
Target Nuclide=115Sn		714.50	22.00	514.12	3.38
Strongest G= 1293.59		827.00	100.00	542.29	3.31
463.25	9.33	856.90	50.00	546.01	2.82
733.89	7.00	902.10	78.00	603.60	2.25
818.72	10.00	936.90	100.00	631.83	8.31
931.86	8.33	971.50	35.00	648.23	3.17
972.61	11.33	1043.60	50.00	747.00	3.87
1097.33	2.90	1159.60	65.00	806.47	2.25
1252.12	2.30	1230.00	77.00	812.03	2.54
1292.00	3.67	1259.50	100.00	824.54	2.89
1293.59	100.00	1275.20	100.00	841.85	2.39
1356.85	5.33	1460.60	100.00	920.77	7.32
2112.31	11.33	1541.90	100.00	927.29	2.04
2225.40	3.67	2034.50	83.00	960.31	2.46
2585.66	2.43	2221.50	17.00	1018.53	3.73
2843.85	2.47	2256.70	100.00	1037.99	2.46
3333.73	4.03			5563.50	3.10
4695.85	2.17	Target Nuclide=121Sb		5619.30	2.04
5361.99	2.40	Strongest G= 61.41		5885.19	6.06
		7.34	4.23	6009.30	2.75
Target Nuclide=120Sn		28.61	42.96	6523.19	9.15
Strongest G= 925.70		45.73	3.52	6727.91	5.21
553.20	21.00	61.41	100.00		
782.90	41.00	71.47	12.32	Target Nuclide=123Sb	
809.00	18.00	76.06	5.00	Strongest G= 87.60	
810.50	50.00	78.09	61.97	39.96	13.03
848.20	40.00	88.27	10.77	40.80	49.79
868.80	82.00	101.55	3.59	44.09	7.63
908.50	60.00	105.82	26.76	87.60	100.00
925.70	100.00	114.87	40.28	88.39	9.22
942.90	100.00	121.50	51.41	103.65	29.66

CAPTURE GAMMAS - ordered by nucleus

Page- 27

E (g) (keV)	I (g) / I (g) (max) %	E (g) (keV)	I (g) / I (g) (max) %
Target=123Sb cont.			
119.81	2.33	772.04	3.50
133.84	26.17	775.45	4.66
137.92	9.75	823.66	3.18
143.21	13.03	828.86	2.86
155.18	38.14	830.93	2.65
167.60	21.50	832.06	2.54
173.80	8.05	896.96	2.33
185.12	5.51	972.06	3.28
206.90	2.01	976.58	2.12
246.32	22.56	982.03	4.45
246.59	2.01	983.97	4.66
252.83	18.01	1012.77	2.44
256.65	2.01	1014.71	2.65
265.63	10.49	1019.32	2.01
269.40	4.34	5225.00	3.92
275.28	6.36	5230.20	2.01
276.27	4.45	5338.30	3.60
288.01	8.16	5408.00	7.31
313.95	7.20	5414.40	3.39
322.12	16.10	5446.70	4.13
331.46	22.56	5598.30	2.44
334.98	8.69	5604.50	4.56
338.30	6.25	5868.80	10.06
351.57	16.10	6028.30	3.71
384.53	32.10	6048.34	8.47
390.51	2.86	6082.90	7.73
400.77	2.44	6252.70	2.01
402.88	3.07	6335.72	7.63
410.28	5.93	6363.72	12.71
419.06	3.18	6379.69	22.25
430.26	2.86	6456.54	3.60
430.48	2.54	6467.27	9.32
441.92	4.77	Target Nuclide=122Te	
443.21	2.86	Strongest G= 158.90	
443.94	2.33	136.71	14.05
455.24	4.45	158.90	100.00
462.00	4.66	280.94	8.11
463.90	3.71	285.11	36.97
466.96	5.51	329.51	35.95
473.12	6.25	346.19	6.49
501.15	6.04	439.89	43.03
555.06	9.53	477.68	9.19
561.23	2.01	482.42	3.51
564.73	3.18	505.67	18.92
571.06	3.71	528.93	13.03
598.67	24.05	624.56	8.54
610.91	3.07	735.86	5.19
620.48	2.22	772.68	2.86
634.00	4.87	783.60	5.95
709.33	2.22	812.12	5.03
723.42	2.12	821.43	2.76
737.70	2.12	877.75	2.49
743.91	2.54	897.54	7.24
763.48	4.56	945.59	8.11
768.40	2.33	1036.61	3.35
Target Nuclide=123Te			
Strongest G= 602.40			
		353.68	3.72
		602.40	100.00
		645.57	11.56
		712.86	2.60
		722.40	23.03
		1324.10	2.47
		1436.00	2.15
		1488.30	2.80
		1578.90	2.16
		1720.10	2.30
		2746.90	3.15
		6324.30	2.07
Target Nuclide=128Te			
Strongest G= 3721.80			
		2290.00	17.41
		2524.90	26.87
		2579.40	6.47
		3377.20	50.75
		3702.90	52.74
		3721.80	100.00
		3815.10	11.94
		4042.80	9.95

CAPTURE GAMMAS - ordered by nucleus

Page- 28

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target Nuclide=130Te		164.14	2.64	5421.22 26.14
Strongest G= 295.90		193.56	6.78	5464.01 2.14
257.00	6.67	202.85	3.84	5494.47 7.29
295.90	100.00	224.09	4.41	5529.34 2.89
364.50	6.67	248.74	7.44	5555.22 5.86
408.60	4.63	268.31	4.04	5581.76 3.23
642.30	11.11	278.31	2.07	5623.95 3.19
754.00	6.11	301.90	11.83	5675.16 4.71
837.00	6.11	314.35	2.80	5731.99 2.14
854.50	6.30	344.76	5.35	5801.06 2.06
1041.40	10.93	374.22	2.90	5821.73 44.29
1051.80	5.74	374.45	2.01	5955.32 2.50
1069.70	2.41	385.45	4.22	6019.50 34.43
1075.60	3.15	392.01	3.08	6125.50 6.86
1379.00	5.37	416.55	3.42	6146.49 20.43
1383.80	4.81	420.84	7.14	6204.16 20.00
1441.60	3.15	502.55	2.27	6254.99 3.90
1643.50	3.89	526.65	2.39	6374.41 2.14
1724.90	3.15	613.17	2.23	6408.43 100.00
1858.60	4.63	638.60	2.21	6451.47 3.16
2047.70	3.33	692.95	4.26	6455.97 5.00
2215.60	7.96	694.90	3.62	6460.44 2.14
2239.60	2.96	696.49	2.78	
2286.80	54.07	698.37	2.35	Target Nuclide=129Xe
2361.10	3.15	700.79	4.22	Strongest G= 535.70
2511.00	4.81	743.43	3.08	535.70 100.00
2582.50	9.07	744.98	2.01	585.50 29.60
2706.10	16.11	747.45	2.53	669.00 11.00
2927.50	28.52	782.89	2.96	1125.00 5.70
3001.80	10.00	790.20	2.01	1263.00 4.30
3346.90	62.04	898.62	2.01	
3417.60	14.07	1141.72	2.01	Target Nuclide=131Xe
3480.70	2.78	5197.60	3.58	Strongest G= 667.50
3538.10	2.96	5559.20	4.08	483.70 7.80
3690.10	3.70	6307.10	2.27	506.50 3.90
3698.70	2.78			522.70 2.90
4247.30	3.15	Target Nuclide=129I		570.10 2.80
4545.70	2.78	Strongest G= 6408.43		600.20 6.80
		3.98	38.57	629.70 19.90
Target Nuclide=127I		4.37	3.86	630.20 18.50
Strongest G= 133.61		12.81	3.29	667.50 100.00
27.40	23.03	41.47	2.07	667.80 100.00
42.76	2.70	47.82	3.70	772.50 24.40
52.37	11.73	69.59	18.57	773.00 13.20
58.09	19.84	85.11	8.29	1028.70 5.40
67.09	7.20	125.76	3.39	1030.00 3.70
106.25	4.85	159.99	6.29	1136.10 2.40
124.28	12.63	169.79	3.46	1315.00 10.80
126.99	2.11	184.02	3.00	1317.60 13.20
133.40	3.46	184.98	9.14	1801.10 4.40
133.61	100.00	214.84	2.00	1887.60 2.50
142.14	9.64	235.60	3.93	6380.50 2.80
147.10	6.80	286.59	2.71	6466.00 5.94
153.01	12.51	309.79	7.19	6466.80 13.20
156.51	6.28	465.48	2.73	
160.76	10.56	567.43	2.31	

CAPTURE GAMMAS - ordered by nucleus

Page- 29

E(g) (keV)	I(g) / I(g) (max) %		E(g) (keV)	I(g) / I(g) (max) %	
Target Nuclide=136Xe					
Strongest G= 601.01		377.30	3.43	6307.32	3.15
268.35	2.10	386.86	2.09	6320.62	4.72
385.16	30.00	442.83	3.44	6388.54	3.82
538.93	9.90	450.36	8.39	6440.06	7.68
601.01	100.00	502.84	2.75	6514.23	4.06
701.23	2.30	510.79	3.50	6656.95	2.40
893.23	2.30	519.34	2.33	6697.61	2.13
950.18	3.50	524.15	2.56	6697.76	23.62
1302.67	12.00	525.60	3.58	6714.93	9.72
1335.49	2.50	528.42	2.09	6831.30	3.86
1535.09	6.70	529.51	5.20	6891.34	2.09
1841.49	3.00	539.41	4.76		
2088.93	5.30	554.64	2.52	Target Nuclide=134Cs	
2183.88	12.00	570.83	2.09	Strongest G= 7339.31	
3039.37	15.00	622.06	3.49	4477.80	6.27
3424.55	46.00	638.03	2.20	4767.40	10.84
		648.49	3.09	4890.42	14.46
		708.65	2.85	4907.60	4.10
Target Nuclide=133Cs		718.66	2.21	4942.91	48.19
Strongest G= 11.24		841.01	3.23	5090.40	6.99
7.52	8.27	930.11	2.40	5194.00	7.71
11.24	100.00	966.45	2.57	5294.00	10.36
17.22	2.99	998.54	2.01	5333.80	3.86
38.62	2.17	1077.81	2.38	5337.93	20.24
60.03	58.27	1209.80	2.17	5349.19	11.33
67.26	7.09	1462.19	2.36	5359.20	2.27
74.05	9.06	5473.40	4.72	5371.80	31.57
87.25	4.88	5493.48	22.83	5403.29	31.81
93.19	2.20	5505.61	34.25	5465.20	6.51
113.76	24.41	5565.82	4.96	5481.27	17.83
116.38	76.77	5568.00	5.63	5545.70	7.95
116.61	8.66	5572.10	21.26	5550.50	13.49
118.37	6.38	5611.80	2.09	5607.61	14.22
120.59	12.99	5625.15	11.38	5663.50	67.47
127.50	5.59	5637.05	2.32	5853.60	8.92
130.24	35.04	5637.25	25.59	5865.00	3.18
174.31	6.50	5640.65	2.24	5876.85	15.42
176.40	35.43	5720.04	2.76	5894.70	8.67
179.02	3.98	5728.96	10.55	5930.00	5.18
186.85	3.50	5748.60	12.91	5987.33	9.88
198.30	14.57	5791.06	15.91	6019.92	10.89
205.61	21.26	5803.04	11.10	6029.00	7.23
211.32	3.19	5858.68	3.43	6113.20	13.49
218.34	4.09	5899.61	8.46	6160.43	68.67
219.76	5.24	5915.09	5.31	6210.00	5.11
234.33	15.75	5950.24	4.80	6339.80	25.78
245.86	9.09	5975.41	6.26	6391.22	23.86
256.63	2.61	5979.44	4.45	6416.12	25.06
261.16	5.12	6051.67	22.44	6457.15	14.94
268.99	2.72	6055.84	3.62	6466.49	7.64
293.29	2.00	6138.71	5.00	6486.90	59.52
295.43	2.30	6150.11	2.64	6502.21	5.04
307.25	17.09	6175.19	2.52	6529.80	2.24
309.77	2.90	6175.55	24.80	6552.05	9.81
356.16	2.64	6189.40	15.79	6671.30	2.89
356.35	3.74	6247.43	2.64	6747.01	13.73

CAPTURE GAMMAS - ordered by nucleus

Page- 30

E (g) (keV)	I (g) / I (g) (max) %	E (g) (keV)	I (g) / I (g) (max) %
Target=134Cs cont.			
6787.60	3.23	3224.00	2.49
6819.56	5.18	3395.00	2.07
6932.77	14.70	3502.00	3.13
6938.76	38.07	3589.00	2.59
7009.52	7.42	3777.00	2.51
7101.93	7.90	4240.00	33.16
7339.31	100.00	4720.00	91.19
7465.40	2.24	6610.00	10.36
Target Nuclide=134Ba		Target Nuclide=137Ba	
Strongest G= 5389.00		Strongest G= 1435.88	
4520.00	85.00	409.00	3.01
4895.00	28.33	463.00	17.99
5146.00	13.33	547.30	2.01
5389.00	100.00	871.00	4.81
5810.00	11.67	1009.90	4.01
6265.00	11.67	1147.00	3.51
6399.00	13.33	1343.90	2.01
		1413.00	2.01
		1435.88	100.00
Target Nuclide=135Ba			
Strongest G= 818.70		1444.99	21.30
157.80	2.70	1495.82	5.76
732.60	9.69	1615.00	4.01
760.70	2.09	1778.60	4.01
818.70	100.00	2023.55	3.93
1048.30	12.15	2217.73	20.05
1234.90	2.00	2639.27	8.07
1235.60	6.38	3338.60	4.21
1261.80	44.66	3436.18	2.06
1310.60	4.05	3504.02	2.08
1403.60	2.45	3714.65	2.08
1536.50	2.33	4252.10	2.28
1551.04	11.90	4288.03	2.16
1581.50	4.56	4323.39	2.61
1613.73	8.22	4332.21	3.38
1666.81	2.70	4369.47	2.11
1713.20	3.56	4689.61	5.49
1821.90	2.70	4968.39	4.79
1842.99	2.70	5107.35	2.21
2080.03	3.55	5272.93	2.91
2128.89	5.46	5449.19	2.68
2976.04	8.58	5730.83	24.81
3436.18	2.45	6028.48	3.66
5312.39	3.80	Target Nuclide=138Ba	
6062.36	2.43	Strongest G= 627.26	
9107.42	2.99	454.67	27.00
		627.26	100.00
Target Nuclide=136Ba			
Strongest G= 1897.50		1047.40	3.00
1897.50	100.00	1105.00	2.00
2180.10	2.31	1420.10	5.00
2378.60	9.84	1558.00	2.50
2660.10	12.85	1854.00	3.00
3030.90	2.38	1952.30	3.00
3117.90	2.88	2242.00	5.00
		2522.50	8.50
		Target Nuclide=139La	
		Strongest G= 5097.73	
		14.18	4.06
		29.96	24.90
		34.65	2.81
		54.94	21.04
		63.18	32.81
		132.68	2.19
		155.56	25.00
		162.66	62.50
		169.39	4.69
		209.14	5.31
		215.00	3.75
		218.23	96.88
		235.77	13.54
		237.66	39.58
		255.05	2.50
		258.88	3.23
		272.30	66.67
		279.93	7.81
		283.61	5.52
		288.25	91.67
		290.91	3.33
		304.84	2.29
		310.13	2.60
		389.18	3.96
		396.94	4.79
		422.66	45.83
		426.47	4.69
		443.20	2.29
		478.01	3.44
		495.59	9.58
		528.60	2.08
		543.20	4.17
		549.03	12.50
		553.11	6.98
		567.36	39.58
		574.30	3.65
		595.09	12.50
		602.02	5.52
		623.62	6.98
		628.28	4.37
		640.89	6.56
		658.26	11.46
		667.64	8.54
		697.90	3.33
		708.25	13.54
		710.07	6.77
		722.55	26.04
		736.98	3.02

CAPTURE GAMMAS - ordered by nucleus

Page- 31

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target= ¹³⁹ La cont.					
782.90	3.96	2607.17	5.10	3606.47	8.23
796.29	3.23	2617.76	2.19	3610.03	8.13
821.70	2.92	2640.00	2.29	3665.63	20.10
848.90	2.40	2661.56	3.85	3679.64	20.63
868.10	5.52	2668.01	3.65	3683.89	4.79
882.30	4.06	2688.09	3.75	3691.35	5.21
887.94	2.60	2698.20	2.71	3718.32	5.73
892.30	4.79	2714.63	2.08	3727.70	11.15
941.94	4.79	2724.27	2.19	3735.30	2.50
953.80	2.08	2735.14	2.81	3738.56	5.10
978.10	2.81	2739.01	2.92	3744.87	3.44
992.10	6.56	2747.65	2.81	3900.98	7.81
1006.40	3.23	2757.73	7.60	3951.14	2.92
1020.90	6.35	2764.51	4.27	4044.42	4.37
1032.60	2.08	2767.58	4.27	4060.02	4.37
1037.00	3.02	2804.82	3.02	4105.95	3.54
1041.50	2.50	2837.49	2.81	4125.31	2.71
1054.40	2.19	2852.55	2.08	4389.55	37.40
1097.80	3.96	2863.07	10.83	4416.28	37.50
1101.80	4.79	2925.00	6.56	4502.72	24.58
1104.90	3.54	2961.34	3.75	4558.94	7.29
1117.50	6.04	2969.27	6.15	4842.67	98.96
1125.50	4.37	2977.34	2.40	4888.59	22.40
1133.70	3.44	2988.53	6.77	4998.27	2.19
1157.50	2.40	3017.07	10.10	5097.73	100.00
1176.90	2.60	3031.28	5.00	5126.26	16.98
1188.90	2.19	3035.56	7.71	5130.90	2.40
1225.20	7.50	3040.94	4.37	5160.91	13.12
1233.10	5.21	3051.49	2.71		
1253.90	2.71	3057.66	2.92	Target Nuclide= ¹³⁶ Ce	
1284.00	4.58	3082.98	21.35	Strongest G= 434.00	
1291.90	5.10	3095.50	2.81	160.20	69.76
1296.90	4.27	3112.38	4.69	329.00	10.48
1330.50	7.19	3115.94	2.60	354.10	29.84
1341.20	2.50	3137.21	3.54	416.30	43.55
1385.10	2.40	3142.75	4.79	434.00	100.00
1406.40	3.02	3163.79	4.79	514.20	70.16
1414.20	2.60	3189.10	8.02	590.60	6.05
1418.60	6.56	3197.53	3.13	603.00	23.39
1432.80	3.75	3213.35	2.08	627.10	3.55
1447.50	11.46	3219.81	4.37	665.50	20.32
1452.10	5.10	3265.27	7.92	706.50	2.82
1470.70	2.71	3281.25	7.50	712.80	12.02
1476.90	2.40	3319.00	4.79	726.80	2.82
1489.20	4.69	3383.39	3.54	763.10	15.08
1495.70	8.85	3395.44	2.40	766.10	9.56
1500.00	3.54	3404.81	2.50	825.70	23.79
2345.21	2.40	3417.24	2.71	836.70	14.48
2512.57	2.71	3424.29	3.44	866.60	28.27
2517.05	4.79	3425.40	8.54	900.80	2.06
2532.39	2.81	3437.84	3.54	905.30	19.44
2555.76	3.44	3442.20	6.04	914.30	2.66
2561.85	3.85	3459.91	2.92	921.20	2.26
2564.79	5.52	3477.14	6.35	1018.70	3.15
2598.16	3.44	3488.77	2.50	1064.50	6.85
		3596.45	2.29	1088.70	15.73

CAPTURE GAMMAS - ordered by nucleus

Page- 32

E(g) (keV)	I(g) / I(g) (max) %		E(g) (keV)	I(g) / I(g) (max) %
Target=136Ce cont.		3084.00	5.10	699.80 20.62
1105.10	14.11	3153.10	3.80	705.50 7.22
1110.70	25.97	3200.20	2.60	718.60 5.15
1270.70	4.84	3232.50	4.10	729.50 9.28
1347.00	4.72	3310.40	3.20	738.00 6.19
1437.60	5.08	3517.00	2.90	747.60 18.56
1527.60	2.38	3525.70	2.90	753.10 2.06
1627.30	2.98	3573.10	4.30	771.30 4.12
1691.40	2.34	3991.70	7.20	790.50 6.19
1800.10	3.02	4283.90	9.80	801.10 9.28
1886.90	3.47	4337.80	100.00	805.60 5.15
1895.40	2.18			817.20 2.06
2040.40	2.42	Target Nuclide=141Pr		823.40 4.12
2060.40	3.39	Strongest G= 176.86		832.10 3.09
2180.70	10.81	32.28	5.15	844.30 3.09
2319.40	2.10	47.30	3.09	866.20 13.40
2391.40	5.44	54.57	2.06	879.70 8.25
2501.00	4.64	60.06	8.25	894.10 10.31
2505.40	2.86	64.51	8.25	920.00 2.16
		68.61	9.28	936.50 8.25
Target Nuclide=138Ce		85.00	14.43	943.70 8.25
Strongest G= 5476.00		86.06	10.31	957.50 14.43
4938.00	52.00	104.57	3.61	966.70 4.12
5476.00	100.00	115.53	4.23	975.80 7.22
5540.00	14.00	124.57	2.78	991.20 16.49
		126.85	28.87	1005.40 21.65
Target Nuclide=140Ce		140.91	42.27	1024.70 3.09
Strongest G= 662.00		176.86	100.00	1101.90 7.22
475.00	29.01	182.79	39.18	1107.90 13.40
662.00	100.00	187.79	4.54	1131.10 6.19
1146.60	2.90	200.52	3.51	1138.10 7.22
1288.90	2.41	294.81	2.78	1150.70 23.71
1497.30	2.81	334.10	2.06	1157.70 9.28
1748.70	3.39	341.58	7.53	1163.00 10.31
2905.90	3.01	360.62	2.89	1177.90 5.88
3003.30	3.91	403.70	3.30	1218.10 3.92
3017.10	4.70	431.50	4.12	1231.20 5.98
3092.50	2.81	439.80	3.09	1248.50 3.20
3239.00	2.70	449.30	3.51	1273.50 4.85
3435.00	2.00	460.00	9.79	1318.30 7.22
3619.70	4.00	509.00	15.46	1328.20 3.09
4291.40	22.09	516.60	13.40	1331.80 11.34
4766.60	48.00	527.83	4.43	1413.10 7.22
		546.38	16.49	1450.00 9.28
Target Nuclide=142Ce		557.40	14.43	1467.40 15.46
Strongest G= 4337.80		560.20	11.34	1577.70 14.54
766.00	47.20	569.90	10.31	1683.80 9.79
789.40	16.10	573.40	11.34	1702.80 3.92
808.30	34.20	612.20	17.53	1796.60 10.00
862.20	14.80	620.20	20.62	1889.80 5.98
1136.00	2.10	631.20	15.46	1943.30 2.89
1154.10	8.80	634.20	13.40	2244.60 2.47
1172.30	2.00	645.70	35.05	2285.00 2.16
1572.20	5.70	654.90	7.22	2469.19 2.16
1949.90	3.40	663.60	2.06	2482.33 2.37
2018.80	3.20	687.20	9.28	2561.43 3.09

CAPTURE GAMMAS - ordered by nucleus

Page- 33

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target=141Pr cont.		5843.02	15.98
2598.78	3.51		1646.80
2645.52	2.06		1660.90
2726.17	2.16	Target Nuclide=142Nd	1671.80
2837.90	3.40	Strongest G= 742.09	1677.40
2943.61	3.30	546.78	1688.70
2948.15	2.68	563.84	1706.60
2997.24	2.78	742.09	1743.60
3052.44	2.47	814.41	1759.90
3063.18	2.89	866.27	1812.30
3137.25	2.27	1032.86	1816.90
3150.63	2.06	1057.54	1821.60
3226.97	2.47	1110.63	1845.90
3266.89	2.27	1224.10	1895.70
3277.26	3.30	1262.58	1968.60
3285.31	2.78	1383.80	2204.10
3307.07	2.68	1513.53	2535.00
3365.54	3.09	1555.58	2635.80
3426.92	2.06	1852.39	3051.00
3467.26	2.47	1910.75	3129.00
3532.83	2.16	2937.30	3719.00
3535.33	3.20	3200.80	3872.00
3549.71	3.51	3593.30	4011.00
3582.48	2.27	4322.50	4042.00
3602.51	6.08	4347.20	4163.30
3650.20	5.57	4817.63	4542.00
3654.47	5.15	5381.49	4836.90
3664.35	2.27		4975.80
3678.37	2.47	Target Nuclide=144Nd	
3713.73	4.74	Strongest G= 852.80	Target Nuclide=145Nd
3771.88	2.37	352.70	Strongest G= 7110.80
3790.37	14.54	552.90	453.70
3811.64	2.58	564.00	589.40
3892.63	3.40	708.20	735.90
3911.08	4.23	713.40	735.90
3923.07	2.37	780.50	4567.90
4012.21	2.47	794.10	4634.00
4134.04	3.81	811.90	4780.80
4163.89	3.40	852.80	4814.50
4177.00	4.02	933.40	4975.10
4252.14	3.51	937.00	5002.50
4276.55	4.33	1088.50	5011.90
4372.53	2.89	1146.60	5043.30
4440.54	2.27	1161.10	5048.30
4496.44	9.59	1213.00	5073.20
4692.12	30.10	1218.30	5094.70
4722.86	9.79	1244.50	5207.60
4801.24	14.95	1249.70	5344.80
5052.76	3.40	1265.90	5367.30
5096.11	20.62	1271.50	5468.70
5137.89	8.87	1376.10	5575.30
5140.73	28.76	1450.30	5587.50
5205.98	3.30	1489.90	5645.70
5666.16	39.90	1506.60	5777.40
5770.72	3.81	1512.30	5787.40
5825.27	4.54	1520.50	6093.90
		1525.50	6375.00
			6521.30

CAPTURE GAMMAS - ordered by nucleus

Page- 34

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=145Nd cont.		944.07	12.86	2664.80	2.44
7110.80	100.00	957.34	2.94	2696.30	4.45
		962.03	8.74	2701.21	5.71
Target Nuclide=146Nd		977.08	5.46	2796.19	15.80
Strongest G= 314.67		998.25	2.27	2806.51	2.52
49.93	37.82	1033.18	2.44	2868.13	3.45
77.99	82.35	1065.02	2.77	2874.98	3.53
86.68	36.13	1083.43	3.45	2911.78	3.70
100.08	3.53	1090.66	2.35	2914.30	2.69
114.78	2.52	1107.42	6.81	3014.86	2.86
127.92	44.54	1119.25	4.54	3040.43	2.77
140.36	3.19	1130.57	2.52	3081.83	2.52
140.90	18.49	1150.45	3.28	3108.17	6.30
167.87	7.14	1153.73	2.10	3258.19	7.39
186.75	4.03	1158.98	2.69	3283.89	2.61
201.93	3.70	1164.40	3.70	3312.70	5.55
214.59	5.46	1183.49	3.87	3394.80	2.02
229.67	2.52	1185.70	4.12	3430.00	2.10
249.03	15.38	1186.89	10.50	3451.08	10.08
264.70	2.02	1208.79	5.21	3509.41	3.61
305.75	2.18	1230.30	5.71	3747.32	2.61
310.34	2.52	1235.47	3.87	3768.72	5.63
314.67	100.00	1242.24	2.44	3847.00	3.03
316.82	5.71	1375.50	3.36	3893.80	2.35
328.84	5.80	1377.79	6.97	4023.13	2.52
335.70	60.50	1465.06	3.19	4069.31	2.02
366.99	4.62	1519.59	2.77	4660.53	28.07
388.82	13.87	1526.46	3.45	4687.78	26.89
389.94	3.36	1774.00	6.30	4828.61	5.04
410.03	2.10	1782.50	4.12	4977.40	11.01
413.68	13.45	1788.20	2.02	5077.56	3.87
436.91	3.45	1840.86	6.97		
447.48	2.52	1847.60	3.19	Target Nuclide=148Nd	
466.75	12.61	1851.10	2.18	Strongest G= 165.09	
478.03	2.52	1856.05	4.20	33.00	4.98
493.48	3.36	1942.52	9.16	56.73	5.82
503.56	15.13	1987.84	3.53	80.45	4.33
516.78	11.18	2001.21	2.69	108.52	15.92
525.35	3.36	2030.80	2.52	116.74	7.21
554.77	8.82	2041.00	2.27	119.89	3.03
577.95	15.13	2096.13	4.96	120.39	28.36
604.57	46.22	2122.50	2.35	138.45	43.28
621.68	4.20	2135.22	5.88	156.06	5.72
627.44	2.44	2158.40	2.52	162.34	2.34
631.48	26.89	2209.49	4.29	165.09	100.00
641.38	21.01	2315.40	3.11	182.69	4.88
699.58	9.66	2371.41	5.38	197.19	7.86
701.93	3.95	2374.69	7.90	200.84	2.64
726.84	4.54	2392.50	2.44	207.71	3.98
797.23	7.48	2404.80	2.18	212.61	2.84
840.62	4.62	2496.49	2.86	215.72	3.03
897.57	11.01	2522.10	2.10	224.35	3.13
899.05	2.35	2534.10	2.18	224.44	2.39
903.87	10.42	2554.50	2.02	227.48	13.43
906.94	3.11	2608.87	2.44	238.64	10.45
942.03	5.55	2653.70	4.20	258.33	30.85

CAPTURE GAMMAS - ordered by nucleus

Page- 35

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=148Nd cont.					
265.29	4.33	1185.67	9.00	60.52	3.69
285.51	2.89	1186.97	16.77	69.88	2.61
313.09	2.04	1204.59	2.64	77.15	9.91
316.24	4.13	1219.60	3.93	83.30	12.88
321.12	6.42	1230.54	3.68	83.35	2.43
332.94	38.31	1259.62	3.18	86.28	2.16
365.95	26.87	1261.67	4.68	86.88	2.52
383.57	5.02	1278.47	2.64	95.92	2.16
403.51	3.48	1378.82	2.99	102.48	3.15
406.40	11.44	1384.45	3.03	105.75	22.97
410.29	5.17	1552.50	4.78	131.38	10.00
430.76	2.99	1596.25	3.48	155.26	8.47
432.95	6.87	1678.52	3.63	166.60	31.62
450.72	3.83	1799.12	2.29	170.25	3.69
459.52	3.03	1884.77	4.88	173.71	4.86
464.45	4.48	1938.31	2.79	176.07	4.50
495.49	3.28	1951.49	2.99	189.06	100.00
517.44	9.70	1958.10	2.09	191.89	2.97
528.91	5.47	2294.79	3.38	193.51	2.52
530.48	4.68	2359.69	2.29	196.13	4.05
539.24	3.13	2532.30	2.89	201.96	13.87
543.39	2.39	2644.65	2.79	212.54	4.68
570.72	4.28	2797.75	2.54	227.13	6.31
576.03	4.33	2835.25	3.43	249.56	15.32
581.65	2.49	2893.77	2.44	251.68	3.15
606.70	2.64	2947.17	3.23	257.38	2.52
608.09	3.03	3053.98	2.29	276.85	5.41
657.80	4.58	3165.43	2.64	280.16	8.11
675.90	10.45	3210.92	2.39	296.68	4.05
748.02	4.48	3260.97	3.78	298.07	5.77
750.94	3.08	3359.19	2.04	306.24	3.15
780.18	6.97	3416.28	7.11	309.04	7.30
829.04	2.44	3448.02	2.89	313.35	4.86
846.76	4.28	3485.67	10.10	317.91	3.96
870.58	3.43	3617.86	2.94	321.12	4.68
884.81	4.78	3789.19	4.98	329.42	5.41
897.65	17.71	3859.54	5.02	382.06	5.05
915.22	2.99	3888.35	2.19	391.21	4.14
917.22	2.24	3954.77	11.19	401.17	4.14
918.69	5.07	4199.49	4.03	415.59	5.50
944.30	24.33	4224.33	2.24	421.67	4.50
960.13	2.34	4329.74	4.63	437.63	13.42
962.17	15.67	4672.82	39.90	473.64	4.41
977.17	10.65	4753.26	8.06	474.21	15.32
998.40	4.33	4873.68	2.64	484.50	22.16
1004.02	3.03			495.31	17.21
1046.14	3.53	Target Nuclide=150Nd		523.22	9.01
1065.66	3.53	Strongest G= 189.06		539.24	5.32
1107.64	14.83	22.51	3.69	539.95	8.11
1119.24	9.30	30.70	30.63	542.78	20.18
1137.04	4.08	35.23	6.40	547.42	7.03
1141.34	4.13	53.41	4.05	548.37	3.24
1153.82	4.23	54.44	2.70	555.72	2.61
1159.02	4.43	57.67	41.26	563.03	9.10
1183.81	5.67	59.16	3.60	588.20	5.41
		60.12	2.97	595.83	9.82

CAPTURE GAMMAS - ordered by nucleus

Page- 36

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=150Nd cont.		2492.65	6.49	1183.00	2.40
604.01	3.42	2898.17	3.69	1344.00	3.40
626.23	17.48	2921.72	2.34	1465.00	3.00
635.89	8.11	3002.19	9.37	6248.00	2.20
641.00	5.32	3007.21	2.97		
642.28	13.78	3022.38	3.96	Target Nuclide=148Sm	
643.33	7.57	3034.02	5.23	Strongest G= 5532.70	
657.61	31.53	3040.02	5.23	4870.10	45.00
663.03	12.43	3066.10	2.79	4914.20	56.00
668.56	17.12	3240.16	7.48	4968.90	33.00
678.30	33.33	3382.56	33.33	5281.70	25.00
685.49	5.68	3498.12	7.03	5412.30	33.00
713.62	5.50	3542.46	2.25	5491.50	20.00
714.49	4.41	3588.61	8.20	5532.70	100.00
724.49	3.87	3696.48	2.70	5617.10	20.00
760.29	3.42	3759.15	3.69	5725.50	14.00
761.36	4.32	3897.66	3.15		
787.42	6.94	3925.00	3.24	Target Nuclide=149Sm	
794.95	4.41	4114.20	3.51	Strongest G= 333.94	
852.56	9.01	4122.42	4.59	333.94	100.00
876.26	7.21	4150.60	3.06	439.39	58.52
880.19	9.37	4183.67	4.77	505.44	10.82
891.82	4.77	4348.50	7.48	584.24	9.84
893.40	2.16	4370.45	6.85	675.77	3.26
941.89	14.77	4441.39	4.59	712.23	5.03
968.74	8.47	4454.67	4.50	737.47	10.82
970.75	8.56	4487.82	25.14	1170.20	3.44
1022.47	3.87	4735.30	2.34		
1028.52	2.16	4827.64	5.23	Target Nuclide=150Sm	
1032.61	9.28	4839.07	6.76	Strongest G= 167.77	
1056.64	4.14	5276.79	10.00	25.71	8.15
1072.86	5.23	5334.61	2.70	46.54	3.58
1074.80	6.76			46.59	3.58
1110.53	5.32	Target Nuclide=144Sm		46.82	3.46
1137.62	14.23	Strongest G= 5862.96		56.17	3.09
1150.46	2.34	4078.80	3.36	56.33	2.10
1154.45	9.73	4596.70	2.35	58.47	2.22
1164.60	11.62	4624.10	4.96	60.86	2.59
1172.20	5.59	4784.50	16.50	62.92	3.46
1185.89	15.14	5149.80	48.60	64.89	20.99
1192.99	20.81	5862.96	100.00	65.84	22.22
1256.49	25.23			69.71	6.67
1267.56	33.33	Target Nuclide=147Sm		70.71	2.59
1316.47	25.23	Strongest G= 550.00		76.22	3.09
1323.34	9.10	413.70	8.60	81.57	6.30
1341.22	27.03	432.40	2.60	98.06	5.31
1365.80	8.20	479.10	15.20	100.02	28.40
1376.48	18.92	497.70	4.00	101.93	22.22
1383.97	4.32	550.00	100.00	104.85	41.98
1389.51	11.80	572.30	4.40	139.31	3.58
1420.02	19.82	611.10	22.00	147.55	61.73
1436.87	2.16	630.20	38.00	157.37	2.47
1450.00	8.65	884.20	2.40	162.95	10.62
1464.10	5.68	905.50	2.00	163.60	27.16
1523.65	9.01	915.20	3.60	167.77	100.00
1555.75	3.51	1109.00	2.80	168.42	17.28

CAPTURE GAMMAS - ordered by nucleus

Page- 37

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %
Target=150Sm cont.				
177.19	5.43	611.90	2.10	3953.00 11.11
187.01	5.19	612.28	3.09	4017.00 13.58
187.90	5.31	620.56	7.04	4157.00 7.90
188.47	4.44	629.44	3.21	4187.00 35.80
192.61	2.35	632.07	2.59	4211.00 5.31
201.97	20.99	635.83	4.07	4251.00 8.15
209.03	10.86	636.32	9.01	4292.00 19.75
215.26	2.10	636.70	2.22	4319.00 5.56
227.21	2.84	669.23	3.46	4386.00 5.68
232.44	3.70	671.43	8.64	4399.00 16.05
236.20	3.09	672.52	2.72	4409.00 4.81
236.81	5.06	698.51	2.35	4513.00 4.69
237.11	12.59	704.29	4.20	4579.00 13.58
240.11	4.94	717.11	7.04	4616.00 4.94
250.83	18.52	717.90	9.01	4645.00 23.46
275.24	8.64	735.50	2.59	4712.00 3.46
280.15	53.09	736.20	3.33	4752.00 18.27
280.21	2.59	741.80	2.59	4773.40 8.15
290.78	6.42	752.40	3.58	4826.00 10.74
302.67	2.22	753.00	2.47	4854.50 7.65
306.83	4.94	769.70	4.07	4874.40 7.78
309.04	32.10	773.00	2.47	4893.00 10.49
310.50	4.32	783.57	4.94	4923.40 14.81
323.98	3.95	785.20	2.35	4933.30 2.96
340.14	24.69	787.40	2.10	5075.30 3.70
344.96	2.10	790.30	2.22	5094.00 3.58
349.20	3.95	792.10	2.47	5147.30 27.16
349.86	5.68	795.80	2.35	5240.80 4.07
350.85	7.90	807.60	2.35	5251.40 4.69
353.40	3.09	818.80	5.56	5281.10 67.90
366.28	2.10	822.00	3.21	5282.60 7.28
378.91	3.83	834.80	2.84	5289.90 5.43
379.92	2.59	838.70	3.33	5310.80 58.02
404.62	6.91	843.80	2.84	5491.70 30.86
405.20	3.83	845.90	5.19	5591.60 35.80
410.87	2.72	848.80	4.20	
440.94	3.95	853.00	8.02	Target Nuclide=151Sm
443.81	10.74	856.30	3.70	Strongest G= 3751.00
445.76	14.07	876.80	2.47	3575.00 48.00
448.61	12.84	886.00	3.70	3676.00 4.00
451.47	9.38	891.80	3.70	3714.00 39.65
470.47	2.96	905.40	3.33	3751.00 100.00
495.25	4.07	907.40	3.70	3939.00 30.09
497.49	8.02	910.50	4.94	3953.00 35.13
505.04	13.58	913.30	4.20	4017.00 44.00
505.70	2.84	922.10	4.07	4399.00 52.00
514.79	3.09	948.70	6.30	4495.00 4.87
516.36	6.42	951.30	8.64	4616.00 16.00
535.51	3.09	993.60	4.57	5243.00 9.57
565.12	2.96	1020.80	4.69	6023.00 11.65
575.28	2.22	1073.10	7.41	6163.00 9.57
588.15	2.59	1110.90	6.17	6206.00 5.91
597.81	2.10	3575.00	14.81	6246.00 2.78
598.12	2.84	3714.00	12.35	6296.00 10.78
603.67	2.59	3751.00	30.86	6328.00 10.43
		3939.00	8.64	6357.00 3.65

CAPTURE GAMMAS - ordered by nucleus

Page- 38

E(g) (keV)	I(g) / I(g) (max) %		E(g) (keV)	I(g) / I(g) (max) %	
Target=151Sm cont.					
6490.00	4.87	442.51	11.36	912.00	5.30
6500.00	2.78	445.15	2.42	924.40	8.94
6607.00	5.22	459.92	4.85	941.20	10.91
6643.00	2.43	470.65	28.18	954.20	9.09
6886.00	4.87	473.63	33.79	969.90	10.00
6965.00	3.13	481.14	10.45	979.40	17.88
7172.00	16.87	482.51	2.73	988.60	5.61
7215.00	3.13	488.57	2.12	1023.80	8.64
8136.00	16.87	502.21	3.48	1041.30	10.76
		516.72	7.12	3225.60	2.88
		524.22	2.27	3371.80	8.64
Target Nuclide=152Sm		532.90	2.12	3934.60	7.12
Strongest G= 127.30		535.40	2.12	3943.50	5.15
28.31	31.82	564.70	2.12	4312.00	4.24
35.84	93.94	567.50	7.88	4343.00	13.18
37.34	3.33	568.52	3.48	4509.20	10.15
46.00	3.94	579.90	2.42	4524.50	3.94
53.53	2.12	583.00	4.24	4546.00	12.73
55.03	2.58	586.40	4.09	4645.00	2.12
83.34	25.76	589.80	2.73	4697.80	14.55
90.87	37.42	593.77	3.33	4884.70	5.61
91.46	12.12	605.90	2.88	4946.10	2.42
108.71	3.79	614.44	2.58	5117.90	6.06
119.76	43.03	622.76	21.52	5172.40	9.24
127.30	100.00	627.60	5.45	5238.00	16.36
129.36	10.45	630.24	27.58	5387.10	6.21
147.06	3.64	646.28	3.48	5453.30	3.64
166.64	11.82	659.95	31.36	5462.70	5.00
173.34	2.12	662.90	2.42	5740.90	65.91
175.37	18.33	675.30	2.42	5832.40	16.52
182.90	22.58	681.70	4.39	5868.20	2.12
196.87	3.18	689.40	3.94		
212.84	2.27	693.20	4.24	Target Nuclide=154Sm	
222.66	3.64	698.41	5.30	Strongest G= 4987.06	
223.17	3.79	702.61	3.33	16.55	14.63
254.79	6.82	707.08	3.48	53.03	12.03
269.17	11.97	714.91	15.00	59.75	4.53
276.71	24.55	727.37	6.36	74.66	5.01
278.17	3.03	734.89	25.00	285.92	6.16
307.21	14.09	743.10	2.73	350.11	2.52
313.54	3.64	746.70	3.64	409.87	10.24
317.80	2.12	749.90	2.88	564.51	4.64
321.13	40.00	753.60	8.33	582.07	6.38
329.39	2.88	767.62	10.45	600.99	24.24
350.20	2.42	772.30	6.21	617.55	8.72
354.76	15.30	780.72	8.18	641.88	2.64
362.30	12.27	788.72	15.00	658.40	2.49
369.63	4.55	808.40	3.94	664.87	2.08
390.24	10.15	825.20	7.42	721.06	3.16
396.49	6.52	834.10	7.27	725.12	6.61
397.90	50.15	839.00	13.18	745.00	2.52
404.17	28.03	858.00	3.48	750.50	3.82
407.30	2.58	871.30	4.24	754.46	2.49
413.75	2.73	878.60	13.64	761.63	2.64
414.97	46.06	891.40	3.18	778.16	9.21
439.53	4.24	902.90	11.06	779.13	2.38

CAPTURE GAMMAS - ordered by nucleus

Page- 39

E(g) (keV)	I(g)/I(g) (max) %	E(g) (keV)	I(g)/I(g) (max) %
Target=154Sm cont.	221.21	5.00	90.52 3.55
791.08 9.17			94.26 5.75
804.76 5.09	Target Nuclide=152Eu		100.86 18.76
812.82 3.86	Strongest G= 97.43		102.96 2.74
815.15 3.19	54.19 6.46		108.89 4.17
819.88 30.36	68.25 5.26		145.42 2.77
830.99 2.08	69.67 19.27		145.90 4.06
831.95 2.12	83.37 22.92		239.29 2.20
844.11 8.13	83.66 11.30		263.11 2.07
853.80 2.23	86.58 5.99		281.68 5.24
865.84 8.61	96.88 20.31		319.22 2.53
877.60 15.00	97.43 100.00		
882.16 2.52	103.18 63.02	Target Nuclide=153Gd	
882.98 2.90	109.70 8.49	Strongest G= 123.07	
883.26 2.90	123.07 2.45	123.07 100.00	
886.93 3.34	126.67 12.24	247.92 46.15	
902.45 3.53	128.79 3.18	444.48 6.69	
902.94 2.52	132.00 2.03	557.58 12.00	
904.72 2.52	141.54 3.91	676.59 4.47	
915.49 15.37	151.62 25.00	692.41 19.82	
930.65 8.28	151.91 13.59	723.30 3.27	
968.09 7.54	156.07 3.02	756.77 3.85	
982.14 5.01	166.55 2.76	815.51 5.96	
983.64 4.83	172.30 2.08	845.46 2.47	
1010.99 2.90	193.06 24.48	850.64 2.44	
1012.91 2.38	223.54 5.78	873.18 15.24	
1014.37 2.60	241.69 14.74	880.64 3.27	
1053.60 3.12	242.64 2.08	892.78 3.09	
1106.64 6.31	244.77 5.47	996.26 13.93	
1345.78 2.78	247.94 2.24	1004.73 13.35	
1406.12 2.60	268.20 3.91	1047.18 4.11	
1410.22 2.71	287.99 4.43	1059.03 4.40	
1619.59 6.64	302.66 3.65	1118.24 9.49	
1625.13 4.60	509.02 2.03	1128.56 10.25	
1928.17 2.45	513.87 4.06	1241.30 11.67	
1950.84 3.64	521.37 3.54	1246.10 3.20	
1958.75 2.45	531.40 3.13	1274.40 11.20	
4876.30 62.29	533.37 4.58	1291.33 10.22	
4891.12 2.75	539.04 4.17	1414.50 2.84	
4941.60 2.12	554.89 5.21	1494.07 3.16	
4987.06 100.00	578.66 2.81	1592.80 2.18	
5028.86 19.60	596.60 4.27	1652.36 2.22	
5807.10 2.30	603.30 2.24	1900.73 3.31	
	609.20 6.15	2187.02 2.47	
Target Nuclide=151Eu	667.93 3.02	2388.82 2.33	
Strongest G= 89.85			
24.11 2.48	Target Nuclide=153Eu	Target Nuclide=154Gd	
32.63 9.57	Strongest G= 68.17	Strongest G= 86.55	
46.15 4.53	0.91 21.51	45.30 4.56	
51.98 4.32	14.63 2.07	60.01 6.67	
71.03 2.45	28.82 11.18	86.06 4.56	
72.52 2.33	31.78 7.53	86.55 100.00	
73.43 4.44	39.74 9.06	105.31 52.59	
77.26 10.99	45.80 4.09	148.65 2.93	
89.85 100.00	68.17 100.00	160.59 2.41	
143.22 2.30	80.86 2.34	161.33 2.96	

CAPTURE GAMMAS - ordered by nucleus

Page- 40

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=154Gd cont.		960.55	4.23	5549.00	10.45
163.31	15.19	969.86	8.66	5564.00	31.36
180.10	8.07	987.92	7.25	5621.00	4.09
181.69	9.63	1009.53	3.20	5659.00	5.00
200.46	4.93	1040.43	10.53	5664.00	4.55
208.09	2.37	1065.15	20.39	5677.00	5.91
216.07	4.56	1067.19	8.06	5794.00	29.55
220.78	6.33	1079.24	4.40	5884.00	21.36
226.99	3.41	1119.94	3.42	6359.60	77.27
239.54	2.56	1129.41	3.06		
261.37	3.11	1153.60	14.79	Target Nuclide=157Gd	
262.32	10.74	1154.19	14.79	Strongest G= 181.93	
268.63	2.00	1159.04	24.65	79.51	53.19
287.00	5.96	1169.09	7.04	181.93	100.00
340.69	2.70	1174.22	5.53	255.66	4.75
346.06	3.04	1180.37	9.51	277.54	6.16
364.02	4.37	1187.14	16.87	539.60	2.07
367.23	3.26	1208.90	3.42	606.42	3.55
367.93	3.11	1218.67	3.20	743.05	2.02
390.55	4.11	1222.36	7.01	768.40	2.13
450.56	4.56	1230.68	19.54	780.14	13.64
451.37	4.22	1242.47	10.25	852.86	2.95
463.46	3.00	1250.66	5.67	870.86	3.11
505.59	3.15	1257.98	2.36	874.97	2.35
532.13	2.74	1266.38	3.24	897.59	17.84
554.84	9.48	1277.43	9.08	902.60	2.13
559.37	8.44	1366.44	4.89	915.00	5.84
598.97	2.26	1421.44	3.06	917.47	3.82
614.85	8.78	1449.84	5.35	944.09	46.64
615.30	5.96	1605.20	2.01	944.62	2.18
634.54	2.00	1682.20	5.46	962.06	29.73
710.42	2.44	1826.30	2.32	977.06	21.06
729.16	3.37	1965.20	4.05	998.36	8.13
907.62	2.48	2017.90	2.46	1004.00	6.06
926.30	2.11	2127.70	2.11	1010.16	3.00
1062.80	2.11	2211.60	2.04	1097.01	9.82
1146.41	2.37	6033.80	2.04	1107.63	24.60
1476.99	2.15	6347.10	2.64	1108.19	2.45
4944.30	7.04	6429.40	2.92	1116.48	6.22
5422.10	7.04	6481.70	2.46	1119.16	17.02
5820.30	17.04	7287.70	4.15	1141.44	7.91
5843.00	6.67	7381.60	2.01	1180.31	3.22
5876.00	2.56			1183.97	13.48
5984.50	6.30	Target Nuclide=156Gd		1185.99	23.35
6329.90	2.37	Strongest G= 5268.00		1187.13	20.57
		4274.00	32.27	1219.87	3.44
Target Nuclide=155Gd		4360.00	25.91	1237.52	3.00
Strongest G= 199.21		4745.00	21.36	1259.83	5.84
88.97	69.72	4836.00	10.45	1263.54	8.95
199.21	100.00	5111.00	17.27	1278.92	3.16
296.53	9.47	5268.00	100.00	1300.85	3.49
356.43	2.43	5297.00	54.55	1323.39	9.27
626.28	3.70	5321.00	8.64	1327.14	4.31
841.20	4.01	5408.00	11.36	1372.90	2.67
877.56	2.08	5485.00	6.82	1437.89	4.42
959.86	7.39	5533.00	34.09	1517.44	3.76

CAPTURE GAMMAS - ordered by nucleus

Page- 41

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=157Gd cont.				
1663.71	2.13	1338.00	11.28	140.79
1857.00	2.89	1490.00	29.79	141.54
1888.20	3.11	3712.00	15.11	150.60
1943.40	2.62	3787.00	23.40	153.68
1955.90	4.15	3832.00	13.83	158.94
1970.90	2.29	3884.00	10.85	163.24
2014.60	2.51	4090.00	12.98	176.83
2180.30	2.29	4112.00	5.96	178.88
4925.20	3.71	4145.00	7.45	181.87
5403.20	2.07	4227.00	19.36	184.46
5582.10	2.56	4255.00	21.28	185.19
5676.70	2.02	4298.00	34.04	193.43
5903.20	7.69	4324.00	20.85	199.13
6750.00	15.06	4362.00	3.83	199.21
		4507.00	5.11	242.98
		4599.00	5.11	243.26
Target Nuclide=158Gd		4737.00	2.98	248.05
Strongest G= 5942.00		4784.00	4.26	254.34
3647.00	4.00	4811.00	4.68	270.76
3746.00	3.78	5241.00	12.13	275.72
3785.00	4.89	5280.00	100.00	278.81
3951.00	4.44	5321.00	18.51	279.04
3962.00	2.44			284.15
4045.00	10.89	Target Nuclide=159Tb		288.18
4102.00	6.00	Strongest G= 75.05		295.76
4221.00	4.67	15.41	2.27	302.74
4305.00	5.11	22.95	6.99	308.13
4334.00	3.33	29.02	6.99	310.47
4384.00	4.44	32.65	6.11	315.85
4553.00	2.00	33.16	7.16	317.60
4606.00	2.67	40.30	4.80	319.87
4659.00	3.78	41.89	20.61	339.49
4802.00	26.67	50.87	19.48	340.79
4815.00	5.78	54.13	19.48	341.71
4834.00	4.22	59.64	33.36	345.38
4865.00	11.78	62.37	2.71	348.92
4899.00	2.22	63.69	47.25	351.10
4968.00	3.11	64.11	37.99	352.51
4983.00	4.67	64.82	4.37	354.54
5161.00	3.56	75.05	100.00	356.23
5199.00	5.33	75.79	4.63	357.74
5259.00	2.89	78.87	6.20	361.71
5268.00	5.11	83.89	2.10	363.80
5306.00	4.22	87.72	6.81	372.96
5345.00	6.67	89.41	4.10	373.03
5385.00	19.11	93.31	9.52	374.66
5434.00	35.56	94.83	2.62	376.20
5477.00	4.44	97.51	23.84	378.71
5942.00	100.00	97.97	2.53	382.19
		101.07	2.62	399.50
Target Nuclide=160Gd		104.07	4.80	402.64
Strongest G= 5280.00		112.37	4.10	404.65
394.70	91.49	124.57	2.45	409.02
469.00	91.49	131.06	2.18	410.88
804.30	16.81	135.60	19.65	413.49
1273.00	21.28	140.68	2.88	414.87

CAPTURE GAMMAS - ordered by nucleus

Page- 42

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=159Tb cont.		945.42	2.53	624.57	5.14
420.64	3.93	951.59	2.01	644.66	2.24
427.17	5.68	976.76	2.53	644.81	4.10
437.44	3.67	991.40	2.53	654.92	2.08
442.20	2.45	1001.00	3.23	656.36	2.35
447.39	4.28	1006.50	2.45	672.63	5.41
451.61	10.74	1050.30	2.79	678.32	6.83
453.27	2.45	1061.15	2.36	687.09	2.13
459.54	2.53	1068.20	3.32	699.14	4.64
460.14	2.10	1073.95	2.97	702.56	11.09
464.24	7.60	1085.85	2.10	727.03	4.32
464.46	5.68	1091.25	2.01	729.82	4.75
476.72	3.76	1107.48	2.71	736.10	2.24
480.09	2.01	1119.25	2.18	764.98	2.08
481.25	4.45	1186.70	3.76	770.76	2.62
484.11	2.01	5228.50	2.45	772.73	7.10
499.53	2.53	5245.60	2.88	781.93	3.11
515.27	2.97	5250.20	2.10	793.35	2.02
519.78	2.71	5776.40	5.59	798.51	6.67
525.21	2.62	5842.30	2.79	805.44	2.08
525.67	7.42	5890.60	7.42	825.71	3.99
526.00	2.01	5953.50	4.28	831.83	2.13
527.37	2.62	5993.70	4.98	842.37	6.23
532.70	4.80	6138.10	5.15	842.59	2.84
541.48	5.33	6218.60	8.73	850.86	3.83
585.60	2.10	6241.90	2.01	852.18	2.79
590.68	3.14			896.47	2.02
591.51	4.89	Target Nuclide=160Dy		902.26	2.02
593.37	2.97	Strongest G= 6087.25		955.06	2.57
595.57	2.18	43.82	5.41	1005.13	5.03
600.20	7.07	48.91	70.49	1047.18	3.06
628.64	4.98	57.20	9.29	1049.35	5.41
634.77	2.45	74.57	48.09	1079.26	2.57
649.52	2.36	81.20	5.41	1091.26	3.99
655.82	3.58	103.06	3.83	1098.13	2.84
664.44	4.10	238.48	4.97	1109.11	3.61
666.50	2.45	286.48	15.52	1132.80	3.55
683.45	2.97	292.41	48.09	1137.04	2.73
684.91	4.54	319.67	7.49	1156.85	2.46
708.05	5.07	333.71	6.12	1158.55	2.57
709.31	2.71	341.32	2.62	1181.44	2.79
712.15	2.01	343.66	15.25	1208.38	2.19
724.40	2.18	392.63	4.48	1227.94	3.33
752.87	2.18	418.49	2.08	1232.23	3.01
766.71	5.59	475.69	4.81	1247.46	2.73
771.77	2.97	533.12	2.08	1256.81	2.73
795.63	3.58	546.56	3.50	1268.50	2.62
817.70	2.62	550.25	9.51	1281.40	2.57
832.26	3.06	554.81	2.68	1283.48	7.54
834.95	4.10	566.01	4.32	1287.37	2.19
836.86	2.36	567.38	3.22	1302.70	2.02
851.04	6.46	585.97	2.08	1303.98	3.83
874.78	2.45	589.34	7.27	1332.85	3.50
915.17	2.97	590.78	2.19	1342.64	3.83
920.60	2.53	603.76	6.89	1350.74	5.46
944.07	4.45	607.58	11.91	1354.80	2.95

CAPTURE GAMMAS - ordered by nucleus

Page- 43

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=160Dy cont.		6087.25	100.00	289.54 5.62
1356.40	2.19			311.43 5.83
1360.80	3.99	Target Nuclide=161Dy		316.30 25.74
1365.91	3.33	Strongest G= 185.01		318.10 4.55
1370.57	5.46	80.66	30.77	338.55 13.43
1375.30	2.13	185.01	100.00	345.40 5.89
1379.50	2.24	185.29	3.33	347.21 4.17
1391.89	4.21	236.02	3.08	347.90 15.25
1394.30	3.39	260.07	20.00	351.14 100.00
1401.50	2.35	282.86	20.00	354.25 26.65
1404.00	3.22	295.13	3.33	369.30 2.41
1422.10	2.57	311.20	3.08	371.53 8.08
1433.30	2.73	321.94	2.38	386.49 10.49
1438.36	4.21	327.01	2.05	389.73 68.59
1448.70	3.06	334.06	13.85	391.33 8.56
1453.50	2.13	529.11	2.13	393.10 5.89
1456.90	2.24	572.88	4.10	398.96 8.56
1462.80	3.44	634.21	2.31	401.94 17.12
1464.50	2.95	647.66	7.69	407.64 3.32
1467.70	2.08	697.40	10.00	415.07 14.29
1475.30	2.62	795.54	28.21	421.86 74.26
1478.10	3.01	807.65	46.15	423.32 3.16
1489.76	2.24	842.50	3.08	427.67 18.08
1501.52	2.30	850.70	2.31	431.04 3.00
1504.89	2.46	882.31	66.67	434.81 2.46
1516.54	2.79	888.17	43.59	441.12 5.72
1523.12	2.73	901.30	2.05	442.30 2.62
1528.31	3.88	912.00	2.82	462.25 2.14
1529.80	2.68	917.13	17.95	475.41 16.69
1531.60	2.90	937.00	2.56	479.50 3.58
1535.08	2.95	944.70	11.28	494.53 9.52
1542.50	2.95	970.10	2.56	507.47 4.44
1553.30	2.02	980.30	15.38	515.07 2.19
1561.24	2.62	1092.50	10.00	533.10 3.10
1567.90	2.24	1125.00	8.72	559.59 3.80
1586.14	4.10	1129.70	17.44	583.98 7.17
1665.70	4.04	1195.60	8.97	608.40 7.87
1702.40	4.26	1205.60	2.05	630.10 2.84
1717.30	7.10	1220.00	7.44	637.41 3.32
1722.50	5.41	1253.30	6.41	668.85 4.76
1729.20	3.61	1276.90	24.62	707.70 3.32
5055.20	2.84	1309.00	4.36	711.50 5.72
5074.90	7.65	1373.10	4.10	726.09 2.35
5096.40	23.83			768.70 2.62
5117.80	2.57	Target Nuclide=162Dy		771.10 3.32
5135.20	9.67	Strongest G= 351.14		820.80 7.17
5151.30	7.81	73.44	9.20	833.55 4.76
5270.80	3.50	167.34	4.98	845.20 8.56
5306.50	2.24	177.44	4.60	868.30 3.32
5332.10	3.61	212.14	6.26	896.80 3.80
5356.00	3.99	250.88	41.89	994.20 2.35
5382.90	2.95	260.33	4.49	1002.50 5.24
5594.80	3.22	263.11	2.25	1026.20 2.35
5677.60	17.54	266.54	4.12	1142.00 5.72
5844.60	7.98	267.97	5.46	1225.00 6.21
6035.95	14.64	285.58	6.90	4009.00 4.60

CAPTURE GAMMAS - ordered by nucleus

Page- 44

E (g) (keV)	I (g) / I (g) (max) %	E (g) (keV)	I (g) / I (g) (max) %
Target=162Dy cont.		Target Nuclide=164Dy	
4036.00	2.57	Strongest G= 184.26	76.59 14.11
4078.00	3.69	50.43 13.89	165.95 2.37
4268.00	3.00	72.77 2.06	166.48 9.11
4315.00	7.28	83.40 2.22	172.74 17.10
4576.00	2.41	108.16 11.11	176.94 100.00
4778.00	2.84	116.77 2.33	238.06 12.48
5072.00	2.51	139.10 3.89	252.12 15.23
5217.00	9.04	184.26 100.00	260.65 13.61
5217.60	9.04	271.73 2.00	273.44 25.97
5218.20	9.04	331.15 2.89	662.46 8.99
5221.81	9.04	343.33 2.67	675.22 8.86
5450.18	10.01	349.24 8.89	769.91 23.60
5849.23	4.49	354.34 2.00	780.57 25.34
5881.28	5.03	380.04 2.67	852.13 64.92
		385.98 20.00	857.16 28.84
Target Nuclide=163Dy		392.68 6.67	887.73 14.36
Strongest G= 688.44		403.09 2.00	946.85 15.23
73.39	35.42	411.67 22.22	
123.32	3.88	414.99 18.33	
148.70	8.13	420.84 6.67	
168.84	89.58	430.45 2.67	
206.78	4.17	447.95 11.11	
211.11	15.83	465.34 22.22	
212.16	2.58	470.18 6.67	
215.08	55.42	474.48 2.00	
259.09	8.33	477.06 13.33	
277.50	30.42	496.92 27.78	
294.58	21.67	499.35 7.78	
309.12	6.67	500.58 6.11	
415.00	25.83	506.48 4.00	
548.54	4.17	508.93 4.44	
585.90	25.00	524.25 3.33	
610.98	4.17	533.81 2.67	
673.70	41.67	535.93 4.00	
688.44	100.00	538.51 42.22	
754.80	95.83	569.82 5.00	
761.70	75.00	584.05 14.44	
782.40	5.42	596.71 3.11	
819.00	2.08	932.80 3.33	
832.00	3.75	981.70 2.44	
843.20	14.17	995.70 3.33	
858.30	2.50	1017.40 2.22	
911.30	11.25	1073.50 2.67	
966.00	2.92	1257.00 2.00	
5195.90	2.63	3417.00 5.28	
5677.50	3.92	4124.15 6.89	
5722.90	4.75	4612.92 3.39	
5733.60	3.25	5110.80 3.67	
5856.80	5.25	5142.39 4.33	
6826.60	2.96	5145.51 5.06	
7411.30	2.04	5177.25 3.50	
		5557.27 16.89	
		5607.75 21.00	
		Target Nuclide=165Ho	
		Strongest G= 136.66	
		19.84 3.96	
		54.24 9.09	
		69.76 10.18	
		82.47 3.53	
		87.60 4.51	
		98.86 2.04	
		108.20 3.09	
		111.33 2.29	
		116.84 57.45	
		126.23 3.85	
		136.66 100.00	
		149.31 15.27	
		167.45 3.45	
		181.09 4.62	
		199.71 2.91	
		221.18 14.18	
		233.12 2.29	
		239.14 15.27	
		245.01 3.78	
		289.12 8.36	
		290.61 6.18	
		304.60 9.45	
		328.25 2.65	
		333.63 5.82	
		335.62 2.25	
		371.76 10.91	
		391.90 4.11	
		401.57 7.64	
		410.28 5.09	
		411.10 2.73	
		412.10 2.18	
		416.48 2.91	
		421.14 2.55	
		425.31 4.73	
		426.00 13.45	
		Target Nuclide=165Dy	

CAPTURE GAMMAS - ordered by nucleus

Page- 45

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=165Ho cont.				
455.61	6.18	794.00	2.01	719.55
457.38	2.18	798.79	66.18	720.39
463.90	2.18	810.53	17.43	730.66
481.32	3.09	878.52	3.32	737.69
487.59	4.73	898.52	2.42	741.36
489.40	11.64	962.70	2.35	748.28
509.00	2.55	971.00	3.32	798.89
512.70	2.91	1011.40	4.01	811.04
533.50	2.18	1019.37	5.53	815.99
542.87	12.73	1037.83	8.37	821.16
543.67	8.73	1058.51	2.35	823.39
554.30	2.18	1146.68	4.43	829.96
577.00	2.55	1173.41	3.32	853.47
613.80	2.55	1201.70	3.53	914.94
624.00	2.18	1223.30	3.39	928.93
633.50	2.91	1273.00	4.70	1012.19
658.90	2.18	1280.50	3.04	1167.40
661.00	2.18	1294.50	3.04	1277.59
689.70	2.91	1298.00	3.18	1277.59
715.30	2.18	1341.50	3.46	1310.03
5108.66	2.25	1353.50	5.88	1323.91
5813.55	3.42	1373.30	2.01	1331.32
		1381.50	5.74	1351.54
		1437.70	2.42	1392.21
		1441.50	2.77	1877.77
Target Nuclide=166Er				
Strongest G= 207.80				
57.07	8.64	1453.90	5.88	4633.80
79.32	2.56	1523.80	2.63	4639.40
131.70	2.07	1708.50	2.28	4643.40
148.39	2.56	4486.70	2.84	4647.40
207.80	100.00	4682.00	3.04	4653.20
321.34	6.02	4716.60	4.70	4660.00
341.70	2.97	4775.30	4.15	4665.40
346.55	40.25	4787.00	2.84	4671.40
394.60	5.05	5051.30	2.63	4688.50
416.99	2.56	5210.20	8.16	4693.30
471.40	2.42	5257.70	3.18	4702.50
474.00	6.36	5351.00	2.84	4707.80
487.91	6.43	6171.20	16.53	4715.40
494.39	8.23	6228.23	65.42	4721.70
495.70	4.29			4729.20
498.57	10.65	Target Nuclide=167Er		4737.60
511.00	7.88	Strongest G= 184.29		4740.90
528.70	7.88	79.80	28.21	6.92
531.54	48.89	98.98	5.08	23.03
544.98	8.64	99.29	3.97	10.62
554.80	3.18	184.29	100.00	13.51
573.78	20.26	198.24	57.44	5.31
583.79	2.77	217.42	4.92	3.77
591.82	6.43	284.65	25.90	12.97
593.87	11.48	422.32	2.97	12.77
603.76	5.33	447.52	5.72	5.03
613.53	2.01	543.67	3.46	3.72
617.14	2.28	559.51	4.05	26.15
645.74	4.15	568.82	2.18	5.33
691.80	2.35	631.70	13.79	6.46
		715.16	3.10	11.03
				2.44
				6.38

CAPTURE GAMMAS - ordered by nucleus

Page- 46

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=167Er cont.		5398.10	3.59	Strongest G=	64.55
4863.60	4.82	5405.90	15.44	27.60	11.16
4869.70	6.72	5425.30	2.51	64.55	100.00
4875.90	5.05	5434.30	19.64	74.60	19.85
4881.10	5.64	5460.20	7.38	84.90	4.18
4890.80	5.21	5468.80	13.33	99.30	2.90
4896.40	16.28	5473.40	2.62	149.60	29.40
4916.70	4.51	5503.60	11.44	151.50	34.98
4921.60	58.97	5508.60	11.95	159.59	32.51
4951.70	2.82	5516.40	2.33	167.40	4.51
4960.40	4.18	5533.20	6.77	368.80	2.25
4964.90	4.23	5571.00	18.03	422.80	2.04
4980.50	5.44	5585.70	6.67	429.90	42.06
4984.50	18.79	5623.10	14.74	470.20	19.10
4993.80	7.69	5642.00	17.28	477.60	7.94
5001.60	16.05	5673.72	32.31	497.50	68.24
5019.40	2.31	5682.00	9.74	507.10	7.51
5024.80	3.33	5690.50	3.64	524.80	22.21
5032.20	15.41	5711.40	13.51	534.70	12.34
5038.00	31.03	5715.20	3.59	545.00	2.15
5043.50	6.87	5740.30	2.82	562.00	18.24
5058.10	2.05	5748.80	14.28	589.60	19.10
5070.80	20.38	5769.20	7.97	599.20	31.01
5082.40	3.33	5772.30	29.49	616.80	2.58
5087.60	6.15	5777.60	3.85	631.50	2.15
5097.70	6.87	5788.20	7.79	640.00	6.65
5107.70	2.67	5799.20	3.33	650.00	21.46
5111.50	24.56	5857.60	25.36	663.00	5.04
5114.60	18.59	5866.40	14.00	665.10	3.65
5119.40	10.00	5878.34	69.23	682.40	9.44
5141.80	7.46	5932.60	2.90	695.00	19.10
5169.90	46.15	5943.30	17.36	704.90	15.88
5185.10	2.69	5950.80	15.92	714.50	38.95
5192.50	3.79	6034.70	7.41	732.20	34.12
5200.00	12.41	6051.96	38.72	756.50	3.22
5207.80	5.41	6063.40	16.54	760.70	3.86
5212.50	24.79	6113.50	2.87	768.00	6.01
5218.70	8.82	6116.90	5.41	772.10	11.37
5233.30	4.03	6137.83	49.74	779.40	4.08
5242.50	16.97	6155.80	27.69	785.40	27.79
5254.40	6.31	6197.42	17.69	787.90	7.83
5258.60	16.28	6202.10	13.33	795.60	19.85
5272.20	4.67	6229.74	51.54	798.60	5.47
5277.40	14.87	6339.90	4.92	823.40	8.80
5285.70	7.28	6360.40	23.59	836.70	11.16
5292.60	53.85	6367.42	18.72	853.20	3.86
5295.80	10.26	6495.10	9.74	858.70	2.58
5320.50	6.95	6578.40	28.21	870.50	7.83
5336.80	2.05	6677.38	78.97	896.10	8.05
5344.20	4.56	6776.60	2.03	915.00	2.47
5348.10	8.64	6950.20	5.69	918.50	9.23
5359.70	61.54	7222.60	2.18	936.50	4.40
5369.20	25.64	7507.40	4.33	939.60	2.68
5373.20	16.28	7691.70	2.10	944.40	2.47
5378.66	15.05			968.40	6.55
5388.20	2.23	Target Nuclide=168Er		978.50	4.18

CAPTURE GAMMAS - ordered by nucleus

Page- 47

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=168Er cont.		Strongest G=	197.90	635.41 46.90
989.60	42.92	197.90	100.00	647.27 5.87
998.20	4.51	279.10	10.38	660.19 7.29
1002.10	7.94	359.00	4.72	667.87 4.26
1013.80	19.85	501.70	9.75	670.25 2.71
1019.90	14.27	538.20	2.46	690.94 16.77
1029.80	18.24	556.10	4.09	707.78 4.13
1042.50	7.08	562.80	6.29	719.98 64.52
1046.60	3.65	663.40	4.09	726.42 19.10
1052.60	15.67	706.90	11.64	760.95 5.94
1078.50	7.40	715.20	3.05	761.86 18.00
1094.50	54.83	794.00	2.93	764.46 3.35
1117.80	5.04	904.00	14.15	824.68 2.71
1275.30	3.33	941.50	3.77	827.15 10.52
1277.60	2.04	1021.70	2.24	897.45 3.81
1295.50	2.47	1175.40	2.08	960.59 2.26
1312.10	4.08	1220.30	2.52	979.74 2.58
1322.50	3.54	1235.00	3.46	981.01 7.23
1330.80	2.36	1297.80	2.63	1009.64 6.13
1356.00	2.79	2104.00	4.72	1023.72 4.45
1359.60	3.76	3548.00	2.52	1037.45 2.71
1387.00	2.68	3577.40	7.55	1061.60 2.19
1393.30	2.25	3628.60	2.61	1067.64 2.58
1396.50	3.00	4054.60	3.14	1076.56 8.71
1407.90	3.33	4185.40	4.40	1086.35 4.00
1412.70	11.91	4461.60	9.75	1095.58 3.61
1417.80	2.36	4777.10	2.40	1099.45 2.00
1423.20	6.65			1109.40 3.55
3765.20	2.90	Target Nuclide=168Yb		1140.78 2.00
3783.70	4.40	Strongest G=	191.21	1144.55 5.03
3817.90	3.22	62.72	29.10	1151.36 2.84
3822.70	13.52	70.88	4.52	1155.75 5.55
3877.90	11.91	75.04	6.84	1163.14 4.26
3940.10	2.58	87.38	7.42	1183.63 5.03
4006.10	6.55	91.97	4.26	1188.21 4.65
4074.30	18.24	104.29	3.23	1197.80 4.71
4105.40	4.83	144.58	7.48	1207.50 8.26
4135.90	2.15	156.90	17.35	1209.80 2.58
4154.70	2.47	165.01	4.45	1221.10 6.97
4163.80	2.25	191.21	100.00	1232.64 8.06
4219.50	3.11	291.23	3.10	1246.50 3.61
4293.00	2.15	378.62	15.23	1248.30 5.55
4355.90	3.33	470.80	2.06	1257.20 10.58
4449.40	2.90	478.45	2.19	1263.08 10.90
4473.50	2.68	555.19	2.84	1266.40 7.23
4515.10	2.36	560.37	5.61	1284.70 10.06
4532.40	3.54	563.24	2.45	1295.60 8.00
4616.50	47.64	570.47	8.39	1304.70 10.06
4887.10	2.47	572.73	22.52	1325.50 4.77
4908.80	81.76	576.40	10.90	1336.00 4.32
4922.40	2.15	590.70	41.35	1373.60 9.61
5142.90	6.01	611.63	2.97	1380.30 3.23
5441.00	23.82	622.09	15.74	1391.80 2.13
5938.20	52.36	623.03	16.19	1410.60 6.97
		627.85	2.13	1414.40 2.77
Target Nuclide=170Er		633.07	4.65	1417.70 4.52

CAPTURE GAMMAS - ordered by nucleus

Page- 48

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %
Target=168Yb cont.		1141.90	8.18	961.48
1432.50	7.42	1205.40	25.00	964.20
1448.30	7.48	1240.50	35.00	1030.00
1480.10	7.94	1370.50	30.45	1039.15
1485.20	9.81	1388.10	15.91	1076.25
1497.60	4.52	1434.90	22.73	1093.66
1505.90	8.32	1470.00	34.09	1119.78
1518.50	2.84	1491.00	29.55	1143.02
1530.50	5.10	2194.70	18.64	1150.20
1540.70	4.77	2401.30	23.64	1154.98
1551.50	2.39	2479.00	4.55	1387.22
1563.00	5.03	2625.00	8.18	1397.97
1578.20	2.90	2959.00	10.00	1521.11
1583.60	3.48	3257.00	7.27	1599.79
1594.50	5.29	3422.30	8.64	2401.39
1604.80	3.48	3600.30	10.91	3667.80
1614.60	3.68	3727.00	2.27	3767.80
1623.60	3.03	3753.00	2.27	3856.50
1625.30	12.19	3810.00	2.27	3941.10
1637.20	6.52	3822.00	4.55	3957.20
1649.50	4.39	3974.40	6.82	3975.90
1659.80	4.84	4120.20	8.18	3998.50
1676.00	6.00	4136.90	12.27	4010.50
1689.20	3.29	4144.80	9.09	4028.60
1743.80	5.23	4168.40	5.00	4034.40
4927.60	2.06	4241.30	7.73	4056.30
5247.40	6.45	4324.10	5.45	4063.60
5468.30	2.90	4351.60	5.91	4091.70
5595.60	2.06	4477.70	10.45	4102.00
6053.40	4.71	4494.40	2.73	4111.00
6207.10	4.00	4512.00	2.27	4142.90
6779.80	26.32	4537.80	2.27	4163.00
6842.50	6.06	4568.30	5.00	4220.30
		4607.70	7.27	4252.80
Target Nuclide=170Yb		4642.30	3.64	4264.60
Strongest G= 6614.70		4703.20	6.82	4271.70
669.60	36.36	4725.90	11.36	4278.40
691.10	18.64	4743.60	10.00	4300.10
698.90	17.27	4784.00	4.55	4305.10
776.40	54.55	4898.20	2.27	4338.40
804.70	63.64	4914.00	5.00	4362.30
832.60	50.00	5078.50	7.73	4378.90
840.40	37.73	5179.00	4.09	4385.00
845.30	36.82	5284.40	4.09	4391.80
869.70	19.55	5575.80	10.91	4432.40
876.00	10.00	5624.00	19.55	4449.30
886.30	36.82	5627.00	19.55	4462.00
906.40	33.18	5708.30	6.82	4475.90
909.70	40.45	6547.70	18.18	4513.30
921.50	36.36	6614.70	100.00	4524.60
963.90	36.36			4529.00
991.30	37.73	Target Nuclide=171Yb		4554.20
1039.40	25.45	Strongest G= 5538.80		4592.90
1099.00	15.91	78.74	13.57	4631.70
1116.00	13.64	181.53	10.71	4637.80
1129.20	14.55	857.64	4.24	4658.60

CAPTURE GAMMAS - ordered by nucleus

Page- 49

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %
Target=171Yb cont.		120.00	9.09	1624.28
4672.70	6.04	141.10	2.80	1632.92
4684.70	2.66	399.40	100.00	1634.20
4719.10	2.66	461.80	9.47	1657.33
4730.10	2.22	568.40	7.58	1674.76
4736.20	2.54	611.30	2.88	1681.13
4759.10	11.03	674.20	4.55	1689.29
4764.90	3.40	769.10	2.58	1709.05
4878.00	4.34	1030.60	5.68	1710.87
4888.70	8.90	4101.80	2.05	1774.25
4899.20	5.52	4875.50	2.05	1782.30
4920.60	3.70	5135.90	2.20	1784.60
4944.50	2.54	5293.60	8.33	1807.48
4982.50	4.14	5336.80	9.85	1857.80
4999.10	2.02	5968.10	10.61	1869.87
5017.80	3.08			1882.07
5025.50	2.76	Target Nuclide=173Yb		1886.40
5059.40	3.08	Strongest G= 176.65		1918.96
5076.20	2.44	76.47	39.00	1933.66
5147.00	14.21	88.23	2.25	1979.74
5174.90	3.28	176.65	100.00	1984.07
5184.60	3.18	224.35	5.60	1998.15
5231.60	2.66	245.04	3.30	2003.90
5242.40	4.46	272.92	13.75	2024.79
5271.90	4.98	288.00	23.00	2036.92
5286.40	2.34	319.55	5.25	2044.60
5391.30	5.20	366.53	3.85	2067.80
5411.50	2.44	409.77	7.30	2083.30
5515.28	3.70	443.61	2.55	2085.90
5538.80	100.00	533.04	2.20	2095.64
5555.06	2.02	992.13	4.15	2112.80
5643.63	5.30	1128.90	6.95	2124.40
5677.23	2.54	1215.05	9.65	2163.10
5690.89	23.75	1241.90	58.50	2170.48
5706.90	2.66	1305.53	30.00	2244.50
5791.20	3.28	1307.88	9.60	2258.36
5824.84	20.57	1319.02	4.00	2274.00
5915.86	2.07	1353.18	2.10	2277.10
6009.15	17.71	1407.01	2.30	2285.10
6124.62	5.84	1410.73	3.75	2287.80
6169.84	8.70	1437.63	2.20	2314.20
6225.00	5.84	1442.36	2.10	2339.00
6542.44	6.58	1448.46	3.20	2349.40
6553.03	2.22	1456.15	3.65	2388.96
6614.12	8.58	1462.32	5.00	2400.98
6820.62	2.86	1484.54	6.15	2452.00
6864.28	2.96	1525.98	2.50	2478.42
6901.32	3.28	1529.68	4.30	2498.80
6976.22	5.62	1532.79	6.45	2511.10
8018.97	10.60	1543.91	4.10	2515.40
		1547.97	7.65	2523.80
Target Nuclide=172Yb		1552.13	5.35	2541.00
Strongest G= 399.40		1557.49	14.60	2548.80
76.50	7.95	1565.13	3.15	2586.60
82.80	3.52	1598.36	5.10	2605.10
116.10	11.74	1621.09	2.15	2635.90

CAPTURE GAMMAS - ordered by nucleus

Page- 50

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=173Yb cont.		599.70	3.45	2308.70	3.25
4752.13	2.85	606.30	11.75	2355.40	2.15
5301.12	2.45	622.90	12.50	2366.80	3.80
5830.27	4.30	633.30	5.50	2411.40	2.40
5903.20	3.05	637.80	5.50	2431.50	2.25
7211.30	2.60	662.30	4.90	2522.40	2.20
7387.90	3.50	666.80	4.90	2554.90	3.50
		696.20	5.50	2557.30	3.20
Target Nuclide=174Yb		698.50	18.50	2647.90	4.20
Strongest G= 514.86		791.30	14.50	2658.50	3.20
41.22	11.48	825.10	5.50	2711.80	4.05
46.75	2.62	833.80	4.75	2825.10	4.90
87.97	2.79	842.30	5.00	3087.00	11.00
95.27	2.13	847.40	2.40	3171.50	3.20
104.53	4.59	859.60	4.20	3189.60	3.30
311.27	2.82	871.80	7.60	3323.40	6.00
363.96	8.52	888.10	3.05	3387.40	25.50
428.63	6.56	896.20	7.60	3404.60	4.40
436.16	5.41	906.70	4.35	3426.00	7.50
477.40	8.20	936.70	2.50	3498.20	2.80
482.08	2.46	943.80	32.45	3740.50	2.45
514.86	100.00	953.20	7.00	3865.00	9.00
534.72	5.36	982.50	7.00	3908.20	33.00
639.27	15.08	987.40	6.15	4150.00	5.50
811.39	9.84	993.90	4.70	4246.50	35.50
871.69	2.56	998.50	2.75	4282.00	14.50
1378.50	4.43	1004.00	11.00	4357.40	2.45
3089.00	2.30	1029.60	6.50	4568.30	2.55
3632.30	4.26	1069.50	6.50	4626.70	16.00
3714.40	2.46	1080.10	27.50	4699.00	2.70
3884.00	7.70	1104.10	3.70	5233.90	3.55
3929.20	4.10	1162.50	2.35		
4830.00	2.62	1254.60	4.40	Target Nuclide=175Lu	
5266.70	15.25	1276.80	5.20	Strongest G= 71.51	
		1303.50	2.05	38.74	5.33
Target Nuclide=176Yb		1327.20	2.35	46.45	5.33
Strongest G= 104.50		1367.80	3.50	64.46	2.33
104.50	100.00	1488.50	4.35	66.23	6.67
107.30	65.00	1588.00	2.85	71.51	100.00
124.60	50.00	1608.00	3.40	71.83	3.33
141.10	23.00	1609.70	2.00	73.13	4.00
151.60	85.00	1633.30	5.50	90.86	2.50
227.00	31.50	1738.30	3.85	93.44	2.00
310.50	5.50	1755.20	8.95	99.15	3.10
328.40	6.00	1765.90	2.20	112.91	25.00
344.40	8.50	1803.20	7.05	115.13	2.47
363.90	8.50	1810.60	6.45	129.76	4.00
434.40	9.00	2004.40	2.45	139.37	8.33
477.10	11.50	2018.90	3.40	144.47	2.33
491.90	29.00	2056.40	6.30	147.54	4.33
499.70	5.50	2079.20	2.75	153.46	13.33
534.30	2.00	2104.90	2.20	182.41	6.67
550.50	2.70	2123.40	3.10	185.33	2.13
563.50	9.65	2201.50	2.40	186.98	3.20
573.20	5.00	2260.30	3.05	188.27	7.67
588.70	3.95	2288.90	2.70	192.19	30.33

CAPTURE GAMMAS - ordered by nucleus

Page- 51

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=175Lu cont.		168.61	6.43	1374.90	3.60
197.24	3.67	171.87	11.43	1446.00	2.37
201.54	12.67	185.60	22.14	1455.40	4.73
214.09	4.00	188.08	6.67	1644.00	5.38
216.98	6.00	191.49	3.57	5066.50	4.89
219.24	4.67	195.56	4.05	5252.60	3.87
222.09	3.00	207.80	5.00	5333.60	2.10
225.39	32.00	235.90	4.29	5799.10	2.58
227.99	11.67	244.31	2.62	5842.20	29.57
233.72	7.67	259.40	10.71	6512.10	8.06
238.66	4.67	268.80	21.19	6582.80	4.95
251.17	2.90	301.11	3.57		
262.66	3.33	313.33	2.38	Target Nuclide=176Hf	
263.73	13.67	319.04	22.38	Strongest G=	508.60
271.84	3.10	346.43	2.05	112.90	35.00
277.68	3.67	348.03	3.81	337.50	5.00
284.62	10.33	364.59	4.29	339.50	5.00
299.40	2.27	367.44	15.24	349.00	5.00
310.16	29.00	393.38	2.17	357.40	9.00
330.53	4.00	413.70	4.76	367.40	5.00
335.83	25.67	457.90	4.69	395.40	7.00
338.51	2.67	550.36	2.74	398.70	5.00
341.70	2.03	552.07	3.64	403.30	5.00
359.94	3.87	761.66	14.29	508.60	100.00
392.46	2.40	876.49	3.50	510.40	11.00
422.69	2.10	899.10	2.17	619.10	5.00
425.40	4.43	907.93	2.05	623.00	5.00
527.47	5.33	916.28	2.38		
549.47	3.13	1014.05	3.45	Target Nuclide=177Hf	
563.89	10.67	1061.87	2.45	Strongest G=	6112.40
578.55	4.67	1065.96	3.07	93.18	16.92
596.90	2.10	1080.21	3.33	213.44	37.59
632.90	2.67	1088.12	4.00	325.56	8.53
672.70	2.37	1367.01	2.31	1077.82	2.33
692.00	2.00	5570.50	2.17	1081.45	3.16
709.40	2.50	6803.60	2.55	1102.83	3.03
722.70	3.33			1167.06	4.23
838.70	9.00	Target Nuclide=174Hf		1174.67	4.21
5331.50	3.40	Strongest G=	125.70	1175.31	4.92
5446.10	2.00	115.70	4.68	1207.20	3.76
5983.40	2.77	125.70	100.00	1229.30	4.44
		177.40	6.45	1269.35	2.13
Target Nuclide=176Lu		197.00	20.97	1340.46	2.43
Strongest G=	150.39	342.60	3.01	5526.20	4.89
81.45	2.12	439.50	5.91	5575.60	34.96
94.13	4.52	441.50	2.58	5598.60	2.26
111.70	6.90	588.00	2.96	5605.20	9.40
119.84	7.62	670.50	27.96	5612.30	18.05
121.62	34.76	714.10	4.78	5628.40	13.53
135.78	2.17	784.10	5.27	5639.50	14.29
138.61	42.14	813.00	5.38	5669.60	12.03
144.75	7.14	859.40	4.46	5683.90	9.77
145.87	9.05	866.70	11.83	5712.40	14.29
147.16	21.19	997.70	5.91	5734.80	2.26
150.39	100.00	1072.00	5.38	5756.30	10.15
162.49	36.90	1095.00	6.45	5763.70	24.06

CAPTURE GAMMAS - ordered by nucleus

Page- 52

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=177Hf cont.				
5807.80	42.11	5774.50	26.17	3295.90 3.00
5822.70	3.76	5778.10	70.47	3328.10 4.30
5868.00	6.02	5830.40	2.01	3423.30 3.14
5986.50	2.26	5847.40	67.11	3436.60 3.24
5990.50	13.91	5904.60	5.37	3491.90 2.51
6064.70	14.66	5956.90	19.46	3498.90 2.46
6093.10	10.53	5978.80	6.38	3554.10 7.73
6112.40	100.00	6013.00	7.38	3732.80 2.66
6130.20	4.14	6018.80	9.40	3753.80 2.46
6175.90	6.02	6096.60	4.30	3799.10 4.54
6192.80	3.38	7079.30	13.02	3828.80 2.03
6216.80	8.65			3851.60 12.08
6241.90	8.65	Target Nuclide=180Hf		3889.80 3.04
6303.90	13.91	Strongest G= 5695.90		3957.70 3.24
6349.70	7.52	206.00	10.14	3978.60 18.84
6357.90	37.59	322.80	3.24	4065.40 5.31
6366.40	3.76	481.90	14.01	4200.40 2.32
6451.80	11.65	615.20	2.75	4373.00 7.25
7319.90	5.64	883.20	2.22	4542.10 3.19
7533.20	3.38	999.50	3.96	5444.00 5.80
		1071.20	4.35	5649.70 30.43
		1086.90	2.95	5695.90 100.00
Target Nuclide=178Hf		1108.00	2.42	
Strongest G= 214.34		1117.70	5.80	Target Nuclide=180Ta
45.86	7.40	1132.80	3.33	Strongest G= 0.00
55.44	3.07	1184.30	2.46	
101.30	2.77	1230.30	5.80	Target Nuclide=181Ta
105.90	2.05	1262.00	4.01	Strongest G= 270.41
160.70	2.78	1302.50	2.32	46.50 4.60
161.19	3.49	1322.70	2.90	47.81 5.00
193.31	6.78	1329.80	4.20	53.14 2.00
202.28	3.98	1356.30	2.03	54.47 2.00
214.34	100.00	1494.20	2.27	55.76 3.10
258.61	2.61	1617.10	2.90	56.68 2.70
303.98	18.30	1672.20	3.86	56.72 3.70
729.52	2.43	1716.70	2.37	58.12 2.00
1003.69	5.50	1797.70	4.35	59.26 2.90
4343.71	2.67	1805.20	2.27	59.28 5.80
5723.62	10.00	1843.40	6.28	65.57 3.00
		1848.60	3.24	65.62 4.00
Target Nuclide=179Hf		2095.50	2.03	65.67 4.20
Strongest G= 5572.40		2140.90	2.51	66.36 2.20
215.25	2.32	2353.70	3.33	67.41 2.30
4707.80	75.17	2598.00	7.25	71.90 2.30
4738.30	18.79	2646.30	2.80	72.55 3.00
4827.20	23.49	2679.90	3.62	72.93 2.10
4852.70	30.20	2714.20	5.31	73.24 2.30
4910.60	66.44	2759.70	2.46	73.33 5.50
5066.60	10.07	2844.40	3.57	73.50 2.20
5071.10	38.93	2899.70	2.03	73.58 2.80
5074.50	10.07	2922.80	7.25	74.27 5.50
5234.40	36.91	2930.50	2.03	74.30 2.40
5353.30	9.40	2953.60	2.32	75.41 3.00
5477.90	29.53	2970.70	2.32	75.51 3.60
5572.40	100.00	3052.30	3.77	82.65 4.50
5677.80	20.81	3081.70	2.13	83.37 2.30

CAPTURE GAMMAS - ordered by nucleus

Page- 53

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=181Ta cont.				
85.29	2.00	629.64	2.10	4925.90
85.60	2.50	657.25	2.30	4937.80
90.12	2.00	709.03	2.00	4949.30
92.48	2.50	717.21	4.90	4961.70
94.17	5.90	725.33	4.90	4980.20
95.15	3.10	726.06	3.10	5005.60
97.47	2.50	728.94	6.00	5034.60
97.83	12.00	744.94	2.10	5062.50
99.83	12.00	759.85	2.90	5075.80
100.55	2.30	760.13	2.50	5102.20
104.11	2.80	791.86	3.60	5123.00
107.86	5.00	796.96	2.40	5165.40
114.32	23.00	804.26	2.90	5227.70
114.38	6.80	818.12	2.00	5245.80
114.68	7.40	871.28	4.90	5280.60
118.90	7.60	875.25	3.80	5343.30
122.68	3.90	894.75	3.00	5396.60
122.97	2.90	905.94	3.20	5402.70
125.13	2.20	959.02	3.90	5411.90
133.88	46.00	984.64	6.50	5434.60
139.46	5.30	987.48	3.10	5497.00
141.24	3.30	3882.70	26.00	5515.70
143.18	10.00	3902.30	19.00	5557.40
146.77	8.00	3982.10	33.00	5583.80
154.09	4.40	4033.10	12.00	5665.50
156.09	10.00	4045.70	30.00	5702.10
159.05	2.30	4053.90	28.00	5769.90
171.58	2.00	4102.60	12.00	5792.50
173.20	58.00	4118.10	9.00	5812.60
176.16	6.60	4138.40	17.00	5889.60
178.62	3.40	4157.90	23.00	5912.10
190.34	7.90	4172.70	22.00	5948.70
195.11	2.80	4219.80	27.00	5965.00
210.54	3.30	4315.60	69.00	5985.00
214.21	2.30	4348.80	12.00	6062.90
233.71	2.80	4366.20	23.00	
237.76	2.80	4383.20	18.00	Target Nuclide=182Ta
270.41	100.00	4444.00	26.00	Strongest G= 459.10
279.14	24.00	4458.20	15.00	73.10
346.46	3.70	4483.10	41.00	75.50
360.53	6.90	4536.10	25.00	113.80
377.25	4.60	4566.40	24.00	143.20
382.19	2.50	4580.00	25.00	158.10
396.95	2.40	4618.00	36.00	159.10
402.62	47.00	4629.70	11.00	315.90
473.80	2.00	4666.60	9.00	459.10
480.02	2.10	4673.40	13.00	481.20
481.24	4.00	4691.70	31.00	481.20
507.74	2.50	4739.40	25.00	663.20
508.92	2.30	4782.30	74.00	691.70
509.94	2.10	4793.10	36.00	783.70
511.20	6.90	4802.90	33.00	806.50
512.43	2.00	4821.80	11.00	984.60
535.26	2.90	4833.20	26.00	
559.10	2.10	4890.60	3.30	Target Nuclide=182W
		4912.60	22.00	Strongest G= 6190.00
				818.20
				926.80
				980.20

CAPTURE GAMMAS - ordered by nucleus

Page- 54

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=182W	cont.	1430.97	5.23	7300.00	7.67
1026.40	21.76	1500.80	2.44	7411.20	30.68
1594.70	2.53	1503.74	2.90		
1615.00	3.24	1585.50	2.44	Target Nuclide=184W	
1626.70	3.76	1624.80	2.73	Strongest G= 4573.60	
1628.30	3.47	1629.44	3.35	110.40	2.61
1736.10	4.71	1633.45	2.61	173.50	8.69
2080.20	2.12	1735.27	2.10	177.00	13.20
2179.40	2.24	1765.60	2.33	188.40	2.61
4249.00	55.88	1786.07	3.18	265.60	7.19
4330.00	11.76	1834.63	2.50	272.80	8.95
4518.00	14.71	1848.42	2.10	416.90	11.83
4558.00	7.06	1869.70	3.69	418.40	15.49
5164.00	52.94	1877.30	2.16	450.70	20.46
6146.00	32.94	1895.70	2.50	463.80	5.23
6190.00	100.00	1902.80	2.16	482.60	2.75
		1945.30	5.68	517.30	15.69
Target Nuclide=183W		1949.60	4.77	570.10	29.22
Strongest G= 111.22		1986.60	2.10	580.50	20.26
111.22	100.00	1995.33	5.28	636.60	42.09
124.07	3.52	2015.32	5.17	640.10	52.42
215.33	5.34	2035.00	5.34	664.20	65.36
226.74	36.19	2056.34	4.49	675.20	18.56
252.85	36.53	2097.60	2.56	715.40	7.52
294.96	5.17	2110.00	2.10	734.00	16.08
318.02	10.23	2183.62	4.77	744.70	29.08
382.78	2.33	2258.60	2.61	757.50	46.14
418.85	4.38	2267.60	2.44	768.30	14.84
482.92	3.07	2284.20	5.63	788.10	22.88
607.62	5.51	2328.20	4.60	804.00	15.10
641.87	4.26	2370.40	2.44	822.50	65.42
687.17	2.10	2458.40	2.90	840.00	13.07
710.08	5.23	2690.70	2.90	888.80	24.71
711.58	5.40	2703.90	3.98	894.60	34.58
724.39	8.86	2733.10	2.22	903.30	41.70
743.19	2.56	4160.00	2.39	912.60	73.20
757.31	13.47	4226.70	3.24	944.30	20.26
763.10	3.52	4306.60	4.15	949.10	7.52
769.40	3.81	4384.60	2.95	975.70	15.62
792.06	61.36	4442.90	2.05	993.00	6.54
871.56	2.10	4596.70	2.84	1007.40	21.37
891.27	30.97	4609.10	3.18	1027.80	26.14
894.75	35.00	4647.10	4.32	1031.90	29.41
903.26	63.18	5015.90	7.95	1048.00	6.54
996.06	2.73	5021.90	2.22	1075.00	6.54
1004.47	2.27	5116.40	5.63	1098.00	6.54
1010.25	17.73	5164.80	2.33	1104.00	6.54
1022.57	2.90	5242.90	2.95	1110.00	6.54
1098.28	2.10	5284.60	5.57	1122.60	22.22
1121.39	6.88	5533.70	2.56	1126.40	44.58
1275.07	15.68	5796.70	11.48	1153.30	10.13
1313.72	3.81	6024.50	17.78	1158.40	24.25
1319.84	6.65	6190.60	12.95	1165.10	52.29
1386.36	12.56	6289.50	11.70	1173.70	20.52
1391.23	2.22	6408.50	21.48	1181.60	76.47
1412.05	4.49	6507.70	4.77	1195.70	30.13

CAPTURE GAMMAS - ordered by nucleus

Page- 55

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=184W	cont.	533.20	2.27	1139.50	5.49
1330.40	28.10	540.86	2.84	1170.30	3.59
1345.60	19.61	547.20	2.40	1271.50	2.71
1408.00	24.58	557.20	18.85	1298.30	3.53
1452.00	24.18	577.30	31.15	1328.50	5.55
1458.30	22.88	588.72	3.03	1358.00	2.46
3873.30	7.19	611.32	7.63	1384.00	2.46
4097.50	3.99	616.30	13.11	1398.00	7.38
4182.20	6.21	628.89	2.46	1414.40	6.31
4218.70	32.68	635.71	2.52	1448.00	7.38
4312.80	28.10	640.64	2.71	2367.20	2.65
4395.30	7.97	647.60	3.47	2481.20	2.65
4468.70	21.57	656.30	7.57	2584.30	4.10
4508.50	3.92	658.00	11.29	2708.80	3.09
4535.80	72.81	661.50	3.34	2738.90	2.21
4573.60	100.00	670.30	6.24	2759.70	3.09
4691.70	7.39	694.21	6.75	2832.10	6.31
4746.30	56.21	706.60	7.12	2849.80	5.11
4932.00	28.43	726.03	2.46	3099.00	3.09
4980.50	15.95	738.80	5.23	3114.80	6.31
4986.80	18.17	746.01	8.13	3148.30	7.44
5025.30	6.27	762.85	5.74	3154.00	5.23
5091.70	65.36	782.38	18.85	3193.70	4.48
5730.00	3.40	788.79	9.65	3207.10	3.28
5754.10	36.93	803.35	3.85	3225.50	6.24
		813.67	6.05	3266.90	2.71
Target Nuclide=186W		815.91	13.11	3314.50	4.41
Strongest G=	59.20	832.13	7.94	3376.20	3.53
59.20	100.00	840.18	20.49	3423.30	2.02
77.80	18.03	848.80	7.88	3443.30	3.34
124.30	4.41	852.20	5.49	3452.90	4.73
127.62	10.03	861.40	5.74	3469.40	14.94
145.75	81.97	863.80	5.17	3492.50	7.88
148.91	3.03	866.80	9.21	3510.50	3.03
157.40	2.84	872.80	5.49	3529.70	6.12
197.47	2.27	877.60	5.67	3534.30	7.31
201.40	41.80	881.60	6.56	3561.60	9.77
204.81	17.21	891.70	12.67	3577.20	4.60
226.00	11.16	909.08	13.18	3710.20	2.96
227.49	2.02	914.07	3.78	3739.30	4.92
253.40	3.78	932.80	2.14	3760.80	2.77
273.02	43.44	979.20	2.71	3774.80	2.52
276.40	2.02	989.60	6.31	3848.70	7.06
289.90	9.21	1007.60	3.09	3902.80	4.10
303.25	8.13	1012.30	5.55	3920.50	2.96
354.80	5.23	1018.30	3.91	3965.10	3.78
376.65	7.06	1027.20	2.84	4018.20	2.52
390.36	2.27	1057.93	4.48	4083.80	4.41
423.74	7.44	1067.40	9.02	4118.80	2.65
428.20	2.27	1071.15	8.64	4136.10	2.96
467.40	3.09	1082.30	8.39	4158.40	4.10
473.99	9.90	1086.00	2.71	4249.60	16.08
495.00	2.27	1093.90	4.98	4331.90	5.67
499.84	7.63	1101.40	4.35	4384.60	7.82
527.90	5.23	1107.20	3.91	4447.60	7.12
531.12	7.94	1134.75	4.35	4491.20	3.09

CAPTURE GAMMAS - ordered by nucleus

Page- 56

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=186W	cont.	251.84	35.38	131.08	5.09
4557.60	5.55	254.99	26.92	138.73	2.27
4575.10	13.11	257.45	27.69	141.76	13.64
4580.00	3.15	260.87	2.31	145.15	3.36
4627.10	18.85	261.27	13.08	145.72	5.82
4630.00	6.31	271.47	2.08	150.97	2.91
4650.10	5.99	285.10	4.31	156.42	6.09
4684.80	22.13	307.56	6.00	157.19	3.73
4690.00	6.31	316.47	49.23	167.33	17.73
5260.00	25.22	319.44	3.31	178.13	3.09
5261.80	74.59	341.38	2.00	181.94	4.36
5320.00	18.92	354.10	7.38	188.81	11.82
5320.90	52.27	355.63	2.08	190.37	2.00
		360.43	7.46	193.35	5.45
Target Nuclide=185Re		363.45	2.92	199.51	12.27
Strongest G= 59.01		378.42	12.69	205.35	5.18
40.35	11.08	390.91	25.38	207.85	54.55
59.01	100.00	411.18	2.46	208.84	11.82
61.93	9.23	413.21	3.08	211.52	3.27
74.57	11.54	418.37	2.00	216.02	3.27
87.27	15.38	477.90	3.85	217.10	2.45
92.12	4.54	479.30	5.38	219.45	7.82
99.36	3.92	496.59	3.62	227.08	27.27
99.70	2.08	580.00	2.08	236.65	20.91
103.31	9.38	607.50	2.38	251.24	13.36
106.55	4.92	631.00	2.77	256.92	11.82
111.34	10.54	694.10	3.46	274.32	11.82
111.67	12.31	715.10	2.08	275.51	8.18
111.81	6.69	728.10	2.23	284.59	3.27
122.53	11.54	761.60	3.00	290.67	58.18
123.51	2.92	796.50	2.31	291.49	11.36
127.35	5.31	4772.90	2.85	300.21	11.82
139.42	2.46	4861.10	4.62	318.37	2.09
140.10	4.92	5008.30	3.69	338.22	4.45
141.26	3.46	5028.90	3.69	352.13	2.27
143.92	10.00	5140.20	3.46	358.78	2.73
144.15	33.08	5177.60	2.00	362.66	8.55
147.42	10.77	5279.20	2.54	375.52	6.00
148.99	5.23	5354.80	2.31	386.21	2.64
149.52	6.23	5911.10	8.77	389.46	2.00
150.50	4.38			406.51	3.36
151.69	21.54	Target Nuclide=187Re		431.62	2.27
164.47	2.92	Strongest G= 63.58		437.70	2.64
167.74	3.69	63.58	100.00	441.10	2.64
169.43	2.31	65.14	2.18	449.80	3.00
174.27	7.69	72.06	5.00	474.80	2.45
176.11	3.23	74.86	15.91	518.60	2.27
176.55	2.62	92.36	3.00	554.40	2.45
179.45	7.69	92.46	10.00	565.80	2.18
182.19	2.23	93.58	2.64	580.50	3.36
189.31	6.00	105.86	22.73	602.60	3.64
209.82	2.46	107.43	3.27	609.20	6.55
210.68	25.38	111.59	5.45	626.60	5.82
214.65	50.00	111.68	5.00	646.60	2.00
223.04	4.23	115.16	3.36	662.90	4.18
232.10	4.38	127.73	3.27	666.00	2.09

CAPTURE GAMMAS - ordered by nucleus

Page- 57

E (g) (keV)		I (g) / I (g) (max) %		E (g) (keV)		I (g) / I (g) (max) %	
Target=187Re cont.				848.90	3.50	462.50	9.71
673.00	2.09	965.00	4.80	485.00	50.00		
684.20	2.82	1014.60	4.50	491.50	30.39		
694.10	2.27	1078.30	4.40	501.90	35.29		
701.40	3.82	5084.00	12.00	515.60	29.41		
714.80	3.91	5118.00	8.00	522.00	66.67		
744.20	3.09	5206.00	6.00	536.30	14.71		
794.90	4.82	5271.00	7.00	563.20	12.75		
829.20	5.82	5415.00	5.00	566.50	14.71		
4987.90	2.00	5447.00	7.00	576.20	20.59		
5000.80	2.09	5508.00	8.00	587.00	51.96		
5012.70	4.09	5564.00	10.00	590.50	16.67		
5073.20	7.27	5659.00	5.00	610.40	38.24		
5134.80	3.00	5744.00	10.00	622.80	21.57		
5348.70	3.55	5781.00	5.00	651.60	83.33		
5688.80	2.09	5827.00	3.00	665.90	29.41		
5702.10	2.36	5983.00	7.00	671.60	11.76		
5871.60	6.64	6156.00	48.00	713.00	42.16		
		6217.00	4.00	716.60	18.63		
Target Nuclide=184Os		6496.00	9.00	732.30	12.75		
Strongest G=	431.20	6588.00	100.00	746.50	15.69		
128.10	16.80			776.50	27.45		
158.40	26.80	Target Nuclide=186Os		785.80	33.33		
181.60	4.60	Strongest G= 427.10		801.50	15.69		
222.40	24.70	146.40	5.59	822.20	21.57		
239.70	3.50	162.50	8.73	835.70	29.41		
254.80	16.50	177.40	90.20	860.00	18.63		
278.30	3.70	180.80	42.16	977.60	14.71		
300.20	7.70	203.70	4.61	981.90	26.47		
314.10	2.60	208.20	3.04	1013.30	52.94		
322.70	10.00	221.30	5.10	5699.00	3.43		
336.00	2.10	223.90	14.71	6217.00	6.37		
342.90	4.40	225.80	5.69				
376.80	5.50	241.40	10.10	Target Nuclide=187Os			
382.70	2.20	252.80	3.73	Strongest G= 155.00			
406.20	21.00	255.20	10.39	155.00	100.00		
419.50	8.70	258.30	46.08	323.00	9.08		
431.20	100.00	262.60	4.90	478.00	23.54		
447.60	4.20	277.80	10.39	487.50	2.00		
462.50	10.20	298.50	14.22	623.90	2.35		
508.20	8.00	299.80	30.39	633.10	26.92		
539.60	24.60	306.10	6.27	634.90	18.00		
551.80	31.40	313.80	19.61	829.40	4.92		
589.70	30.40	315.90	11.76	931.40	3.85		
609.30	4.20	344.50	14.71	1149.70	4.00		
620.60	3.50	348.70	10.78	1209.70	2.71		
626.30	7.40	355.40	8.24	1323.00	2.00		
643.20	10.10	384.90	19.61	1332.30	2.32		
669.20	8.30	400.80	98.04	1435.70	2.46		
741.70	5.30	412.40	24.51	1457.40	2.35		
746.30	3.40	421.40	15.69	1802.10	2.11		
751.50	11.40	427.10	100.00	2260.60	3.18		
759.90	2.80	439.20	5.88	4812.50	4.23		
775.90	4.00	442.60	7.65	5573.20	3.38		
837.50	3.50	448.30	22.55	5702.90	2.57		
842.10	7.20	454.80	14.71	5920.80	2.29		

CAPTURE GAMMAS - ordered by nucleus

Page- 58

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target Nuclide=188Os		828.89	2.53	413.23
Strongest G= 5414.90		927.92	4.39	423.69
36.23	11.25	987.33	2.19	433.77
59.12	30.55	1114.70	2.26	442.23
66.60	12.54	1195.80	3.04	495.68
69.60	22.51	1265.70	2.01	499.78
197.60	25.08	1437.00	2.03	527.50
216.70	21.86	1546.30	2.36	537.57
219.40	26.69	1672.50	2.61	544.82
234.00	23.15	1680.60	3.04	556.32
245.20	34.08	5529.00	2.07	579.49
272.40	27.97	5680.90	2.03	636.97
275.90	7.07	5932.20	6.17	652.73
296.50	15.76	6246.50	2.01	663.88
323.60	23.47	7234.30	3.19	706.65
343.50	69.77	7792.80	2.48	719.53
346.80	30.87			720.28
403.30	12.22	Target Nuclide=190Os		767.83
410.60	35.05	Strongest G= 5146.79		787.36
454.60	35.69	57.48	14.65	817.08
462.40	39.23	67.55	3.26	847.34
469.90	69.45	138.07	4.82	874.54
474.70	30.87	172.33	4.06	881.31
483.00	20.90	175.68	37.63	899.73
495.60	14.47	193.88	3.16	950.79
498.90	15.11	229.81	10.39	993.28
505.80	48.55	235.14	28.00	1003.45
558.00	32.15	239.89	9.73	1050.57
594.90	46.95	242.21	5.47	1060.11
3980.00	12.86	272.75	35.27	1069.01
4026.00	11.90	275.22	25.74	1089.54
4221.20	45.02	291.65	5.27	1102.68
4449.00	11.25	295.03	5.42	1111.65
4527.00	18.01	304.28	3.76	1156.46
4546.10	37.94	304.49	2.16	1214.01
4928.00	37.30	304.95	2.01	1221.25
5363.00	9.97	305.02	4.01	1233.42
5370.20	31.19	314.99	2.66	1255.20
5414.90	100.00	316.45	4.32	1257.40
5481.60	38.26	329.71	2.46	1259.50
5884.50	43.73	332.69	6.77	1263.83
		339.21	3.61	1265.70
Target Nuclide=189Os		339.71	5.27	1267.67
Strongest G= 186.72		345.67	5.22	1268.07
186.72	100.00	347.51	2.16	4460.31
197.70	2.55	349.14	8.43	4530.87
361.14	21.68	352.51	7.38	4556.49
371.26	26.11	353.84	19.62	4615.75
397.39	4.41	355.67	5.07	4665.75
407.18	2.75	359.21	3.71	5010.41
407.54	2.92	362.59	5.57	5037.34
557.97	38.91	364.86	5.77	5120.71
569.31	32.12	366.21	18.16	5146.79
605.26	4.91	397.27	3.61	5250.66
630.90	2.84	403.16	9.28	5271.03
725.07	3.15	413.07	5.62	5341.60

CAPTURE GAMMAS - ordered by nucleus

Page- 59

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=190Os cont.		1129.49	2.84	4571.90 17.57
5674.35	7.58	1200.70	9.86	4589.80 20.27
5684.35	42.65	3340.90	20.58	4601.10 4.05
		3363.50	8.70	4611.40 4.05
Target Nuclide=191Os		3393.60	9.86	4626.70 5.41
Strongest G= 205.80		3452.30	6.38	4637.70 6.76
201.32	7.90	3485.50	5.22	4645.00 10.81
205.80	100.00	3493.60	4.93	4662.70 9.46
271.60	9.00	3506.60	10.43	4668.00 8.11
283.27	28.00	3519.70	9.57	4679.60 4.05
292.48	6.30	3535.30	6.38	4695.60 2.70
329.31	7.90	3668.80	12.46	4702.80 2.70
374.49	55.00	3735.30	4.64	4711.40 6.76
379.16	19.00	3745.00	11.59	4727.00 8.11
420.53	25.00	3753.30	3.19	4733.10 12.16
453.10	18.00	3798.70	6.96	4748.90 12.16
484.55	46.00	3818.60	7.25	4760.00 9.46
489.04	52.00	3900.80	14.49	4764.90 10.81
555.59	5.90	3980.60	20.58	4778.00 16.22
580.39	26.00	3992.80	2.90	4787.80 2.70
		4053.40	7.54	4800.40 6.76
Target Nuclide=192Os		4059.70	6.67	4809.60 12.16
Strongest G= 5276.00		4069.00	6.67	4816.80 6.76
41.49	14.20	4082.10	4.93	4830.50 4.05
84.90	2.20	4198.20	9.86	4841.50 2.70
102.73	9.30	4225.10	11.88	4849.40 8.11
131.12	13.33	4250.10	6.96	4856.80 21.62
201.10	5.94	4295.50	11.59	4865.20 20.27
204.35	24.38	4301.50	6.09	4873.70 9.46
222.78	3.10	4366.70	15.65	4891.90 10.81
237.47	2.09	4405.70	17.10	4897.10 13.51
242.59	8.14	4413.50	20.00	4907.00 4.05
254.19	6.03	4530.70	67.25	4915.50 22.97
265.60	28.99	4694.90	21.16	4924.50 4.05
281.40	6.75	5276.00	100.00	4932.30 5.41
295.68	3.83	5348.30	3.19	4939.20 10.81
307.08	5.48	5481.00	4.35	4944.20 17.57
382.86	2.70	5542.00	5.22	4952.80 4.05
393.47	5.88	5583.30	67.83	4968.00 9.46
399.02	5.71			4977.80 17.57
434.95	2.58	Target Nuclide=193Os		4983.50 21.62
455.75	3.45	Strongest G= 218.51		4992.00 9.46
517.18	2.26	218.51	100.00	5001.60 10.81
544.53	2.49	438.03	29.00	5018.50 18.92
709.23	3.57	656.53	55.00	5029.10 8.11
785.96	2.75			5040.40 25.68
786.76	3.88	Target Nuclide=191Ir		5052.90 10.81
788.54	2.20	Strongest G= 6080.60		5064.30 5.41
825.70	2.03	4495.10	8.11	5087.70 18.92
847.31	2.52	4505.70	8.11	5105.20 6.76
889.48	4.55	4521.30	6.76	5119.90 6.76
910.90	6.09	4530.80	22.97	5128.00 22.97
951.17	15.71	4539.10	10.81	5137.70 14.86
982.26	4.87	4549.60	6.76	5146.70 40.54
983.14	4.87	4556.60	6.76	5155.60 6.76
983.96	3.80	4563.30	5.41	5165.70 31.08

CAPTURE GAMMAS - ordered by nucleus

Page- 60

E(g) (keV)	I(g) / I(g) (max) %		E(g) (keV)	I(g) / I(g) (max) %
Target=191Ir cont.		Target Nuclide=193Ir		
5178.00	2.70	Strongest G= 371.50	153.05	23.62
5185.20	8.11	37.41	158.41	2.21
5195.30	21.62	37.68	160.82	16.11
5218.50	21.62	39.22	161.00	19.98
5248.50	8.11	43.12	162.37	2.38
5258.80	10.81	54.39	162.77	11.37
5282.50	22.97	56.35	163.12	2.26
5291.00	2.70	56.84	165.37	12.80
5303.60	24.32	74.81	165.45	16.78
5313.40	5.41	76.74	166.27	43.38
5326.30	25.68	76.98	166.89	2.21
5332.10	13.51	77.88	169.56	11.26
5347.30	5.41	78.67	169.87	7.17
5356.00	20.27	79.48	171.84	2.28
5375.30	9.46	82.34	176.53	2.76
5384.40	8.11	82.57	176.65	7.28
5400.00	10.81	83.40	179.23	4.23
5420.00	8.11	84.29	180.68	2.37
5430.50	25.68	84.79	180.93	2.40
5447.50	21.62	90.19	181.07	2.08
5460.00	25.68	90.30	182.15	4.23
5484.40	9.46	90.46	184.69	43.71
5493.30	6.76	91.09	186.16	4.23
5516.40	21.62	92.02	187.53	2.34
5533.70	44.59	93.17	188.72	2.68
5552.30	10.81	95.57	193.93	10.04
5564.40	55.41	96.02	194.22	21.52
5585.10	4.05	100.41	195.52	9.92
5594.60	21.62	109.40	198.00	2.10
5611.50	35.14	112.23	198.10	2.66
5639.60	4.05	113.19	198.83	6.95
5654.80	28.38	113.45	204.19	4.22
5666.10	83.78	115.47	205.07	2.68
5680.00	9.46	116.73	208.32	2.32
5687.80	48.65	117.50	208.44	2.06
5707.40	9.46	117.88	211.13	2.77
5725.80	6.76	123.85	212.35	7.33
5745.90	9.46	124.32	213.72	2.87
5757.20	16.22	129.57	219.16	8.72
5781.30	43.24	131.90	224.09	8.51
5806.60	16.22	132.88	225.41	5.46
5829.40	5.41	136.10	226.64	9.27
5865.50	25.68	138.69	228.07	5.74
5906.30	21.62	138.95	228.20	4.64
5957.50	87.84	139.80	229.27	2.54
5970.40	9.46	142.12	231.90	5.65
5983.60	2.70	142.20	233.93	2.65
6003.60	8.11	143.59	234.54	4.03
6056.10	4.05	145.22	234.82	21.08
6080.60	100.00	146.17	235.49	3.80
6092.10	20.27	147.63	235.71	4.22
6140.70	2.70	147.98	240.77	3.13
		148.93	241.76	3.64
		152.40	242.31	5.02
		152.96	242.57	2.40
			245.12	6.69

CAPTURE GAMMAS - ordered by nucleus

Page- 61

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=193Ir cont.		342.16	3.01	411.90	5.96
245.49	14.46	342.47	4.65	412.49	3.53
245.73	3.37	345.24	3.71	413.53	3.97
245.94	3.53	346.69	3.42	414.78	29.14
247.65	2.20	347.06	4.24	418.14	28.81
248.60	11.37	347.23	2.66	419.54	2.10
250.69	2.32	353.96	24.28	420.85	6.34
251.70	2.21	354.29	2.54	424.21	2.98
252.04	2.46	357.77	2.65	425.27	3.09
252.29	5.19	359.74	3.21	425.44	2.42
255.31	17.00	360.42	13.36	430.05	2.15
259.95	2.98	360.86	5.41	431.53	4.53
262.74	6.42	361.44	2.76	432.45	2.06
264.03	2.73	364.26	3.09	432.74	2.76
264.74	37.31	364.52	2.43	432.85	5.19
267.83	9.38	364.88	4.53	432.94	3.97
269.52	2.14	367.22	3.31	433.37	2.43
271.68	26.60	370.52	3.09	434.90	2.10
275.29	26.82	371.50	100.00	435.84	4.30
277.49	2.44	372.48	2.08	436.28	2.87
278.50	84.11	373.85	3.25	436.54	2.54
281.98	2.10	377.35	2.32	437.19	2.54
282.65	2.04	377.46	2.10	437.32	2.65
285.15	2.76	378.18	2.21	440.46	10.49
288.42	5.46	378.61	3.31	440.93	2.10
290.52	2.41	380.31	3.31	441.21	3.42
294.41	3.53	382.91	4.08	441.35	2.21
294.53	19.32	382.98	4.89	444.04	3.09
298.86	2.01	383.46	3.42	444.25	2.65
299.57	2.11	383.68	16.89	445.76	4.19
299.77	2.10	385.16	2.32	446.07	2.76
301.88	2.10	385.24	2.98	446.69	2.10
302.70	3.09	386.02	3.86	447.31	2.98
304.67	6.51	386.71	4.97	447.47	3.41
305.69	2.57	388.92	2.04	447.68	2.76
308.98	27.04	389.08	4.75	450.71	2.98
309.51	2.01	389.17	3.75	450.89	3.50
310.59	12.80	389.28	3.42	451.83	2.47
311.49	7.73	389.70	3.20	452.16	3.64
314.07	12.58	390.78	2.65	452.35	3.60
316.42	2.87	390.96	27.37	454.09	4.19
317.12	3.76	391.50	3.64	455.89	4.22
319.39	2.43	392.00	2.35	458.06	7.51
319.85	4.19	394.33	2.32	458.29	19.43
324.27	8.61	394.52	2.02	458.84	2.76
324.99	14.02	396.12	2.91	459.77	8.06
329.32	2.10	396.32	3.09	460.25	37.09
329.54	2.05	396.78	5.76	461.77	2.10
330.42	8.02	398.87	3.42	462.22	3.53
333.44	2.43	399.59	3.54	463.46	2.21
335.10	4.75	401.78	5.57	464.46	6.62
337.53	29.03	405.35	5.26	465.37	5.67
338.15	2.36	405.60	4.86	465.61	2.87
340.81	36.20	407.33	6.07	466.40	7.28
341.73	2.76	407.54	3.53	466.60	6.51
341.90	3.31	410.58	2.91	467.41	11.48

CAPTURE GAMMAS - ordered by nucleus

Page- 62

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=193Ir	cont.	546.90	10.60	626.21	5.41
468.26	4.75	547.56	13.69	630.37	2.09
468.99	4.19	549.00	4.86	631.48	2.10
470.36	3.97	551.04	2.65	635.33	8.39
471.58	9.60	552.08	7.06	635.90	2.32
472.10	10.04	553.77	2.10	637.12	4.64
474.36	2.43	554.39	4.30	639.91	6.73
477.71	6.40	556.76	3.75	642.05	8.28
478.39	5.96	557.10	7.17	643.80	5.30
478.71	3.86	557.73	5.08	646.96	2.76
479.95	3.64	558.07	2.21	648.65	7.06
480.08	3.57	558.54	5.19	649.21	3.53
480.97	2.10	566.36	3.31	651.17	6.84
482.00	2.10	567.42	2.14	652.99	2.87
482.11	3.64	568.44	6.07	656.82	4.42
482.47	4.08	569.78	7.06	659.14	5.08
482.85	3.97	570.69	3.20	662.51	2.21
483.01	3.20	574.84	4.53	663.27	2.21
484.04	2.21	575.69	13.02	665.91	5.19
487.18	26.38	576.82	5.08	675.08	2.54
488.41	2.32	578.96	4.08	677.02	2.65
488.79	2.10	579.62	2.76	677.99	5.74
490.44	2.32	580.91	4.62	679.90	3.42
490.74	2.19	582.71	2.32	680.84	5.08
492.74	4.19	584.81	3.09	684.76	5.96
496.82	2.10	588.40	4.08	685.79	3.64
498.09	3.09	596.28	2.32	687.10	3.75
499.46	28.48	597.13	3.53	688.97	5.41
500.66	3.75	598.08	5.41	689.63	2.65
501.04	5.52	599.65	7.06	690.76	3.97
505.16	2.54	600.47	20.53	691.11	5.30
505.69	2.76	601.87	4.19	692.02	7.95
506.54	2.87	603.04	12.25	698.62	12.47
509.93	8.61	603.95	2.32	700.11	2.98
510.40	13.58	605.39	3.20	700.59	5.08
510.67	22.08	605.76	2.48	701.45	3.42
511.24	14.24	606.88	5.96	704.47	3.53
511.69	14.90	607.57	2.65	706.54	10.04
511.98	12.25	608.69	5.30	708.55	25.83
513.02	7.51	609.76	14.79	709.47	7.28
518.06	6.29	610.15	3.97	710.92	3.97
520.35	2.21	610.76	16.11	713.23	3.97
520.57	7.95	611.27	2.43	713.77	6.73
520.89	8.06	612.76	10.71	716.15	3.31
521.19	8.06	613.48	3.20	717.21	8.50
525.55	2.54	614.58	3.20	719.33	3.64
527.18	2.21	615.25	4.08	720.96	2.32
530.26	2.87	615.73	6.62	722.29	6.84
530.77	6.73	616.40	5.08	722.93	4.19
531.39	4.87	617.10	6.51	724.09	2.10
534.10	2.25	618.07	2.43	725.39	4.53
534.89	2.21	619.28	2.32	727.66	4.19
535.94	2.65	622.67	4.86	735.59	2.65
536.34	6.84	623.25	5.41	738.25	3.97
538.03	2.43	623.80	5.63	740.66	5.52
546.23	3.09	624.72	6.84	743.87	6.07

E (g) (keV)	I (g) / I (g) (max) %
----------------	--------------------------

E (g) (keV)	I (g) / I (g) (max) %
----------------	--------------------------

Target=193Ir cont.		891.39	5.63	5316.90	2.65
745.33	6.40	892.57	12.36	5358.20	6.51
747.47	12.36	893.26	21.52	5467.40	7.40
748.57	6.62	895.07	3.97	5488.00	5.52
749.93	9.27	899.61	6.18	5518.90	2.87
751.83	4.75	909.18	9.05	5565.50	2.87
753.14	4.19	911.13	22.30	5630.90	5.08
755.82	3.64	912.51	10.15	5643.70	4.53
757.49	7.73	915.50	2.43	5729.10	13.36
759.70	3.75	921.73	5.74	5788.40	6.84
761.33	10.60	923.60	5.74	5822.10	7.06
762.23	5.08	924.24	9.49	5918.00	3.75
763.37	3.09	925.90	5.52	5927.40	3.42
768.39	3.53	938.78	32.67	5954.50	9.60
769.82	3.53	941.30	5.63	5982.80	2.54
771.72	4.53	945.70	4.97	6023.00	2.10
773.92	4.53	951.58	9.27	6066.10	3.86
776.19	3.97	954.05	10.26		
781.49	3.64	956.34	6.29	Target Nuclide=194Ir	
783.87	3.20	956.98	5.96	Strongest G=	300.26
785.51	14.13	960.21	8.39	54.40	22.73
787.07	7.06	961.30	14.24	56.84	13.96
787.72	4.64	962.05	5.63	69.18	42.21
788.46	6.18	964.59	14.57	88.77	12.66
788.98	8.28	966.61	6.29	111.30	7.14
789.86	4.30	974.99	10.60	127.33	12.66
795.08	4.53	985.76	9.82	147.70	12.66
797.03	9.38	988.99	8.17	164.33	38.31
801.61	5.85	1006.40	3.64	175.22	74.03
803.73	5.85	1010.75	12.14	178.53	14.29
804.24	6.84	1014.60	6.40	181.48	8.77
804.76	9.93	1023.45	10.82	185.22	10.06
807.80	19.65	1233.80	7.51	201.82	17.86
809.86	4.30	1454.80	7.62	206.71	11.36
812.25	5.52	1465.80	7.73	217.34	7.79
814.64	4.19	1476.50	4.64	224.69	10.39
822.58	3.86	1479.80	6.07	229.96	13.64
823.53	3.09	1527.30	5.74	233.51	19.81
825.94	8.94	4494.80	2.43	238.32	12.99
829.23	12.69	4577.30	2.98	239.04	13.64
830.99	3.64	4584.60	2.10	239.79	9.42
832.31	5.08	4599.80	2.43	241.60	4.22
833.95	4.19	4612.50	2.65	249.14	17.21
842.48	6.07	4642.70	4.97	252.68	12.34
844.78	15.78	4753.40	5.63	265.86	13.96
846.60	4.30	4807.30	2.54	278.73	30.84
851.26	6.29	4826.30	2.54	286.52	53.25
853.78	11.04	4838.70	3.97	300.26	100.00
856.03	7.73	4854.70	2.76	302.21	15.58
863.40	3.53	5013.90	2.21	307.38	15.91
865.00	7.95	5028.10	4.97	308.48	47.40
866.63	6.40	5071.40	4.08	308.69	30.52
876.46	8.83	5158.10	2.43	314.22	30.84
882.66	3.42	5178.20	2.10	335.35	10.71
889.73	6.84	5184.90	2.21	342.85	16.88
890.89	12.25	5262.80	4.86	347.45	4.87

CAPTURE GAMMAS - ordered by nucleus

Page- 64

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=194Ir cont.					
359.45	27.92	140.38	11.50	687.69	4.40
386.58	28.57	172.91	50.50	688.96	3.00
393.36	22.73	197.48	5.00	705.07	3.10
403.89	26.95	199.53	26.50	715.11	2.60
406.57	15.26	211.41	100.00	738.27	3.00
410.09	13.64	216.01	5.20	739.74	4.10
412.03	17.21	222.23	6.40	776.71	2.90
415.92	24.68	239.26	21.50	913.90	2.70
428.63	14.94	243.85	4.50	915.30	3.70
449.10	9.09	255.74	3.90	917.10	2.70
453.81	10.06	259.35	10.50	926.85	2.50
454.31	26.62	285.58	6.00	929.10	2.50
459.19	56.82	287.82	3.70	930.70	2.20
486.90	46.75	290.25	29.00	948.70	3.80
489.50	7.14	299.11	3.70	1005.60	10.10
494.21	29.55	300.81	23.20	1024.91	2.80
495.76	37.01	313.45	3.30	1030.60	2.70
506.04	23.38	319.31	8.20	1033.13	2.90
508.02	21.10	319.84	7.30	1046.93	11.30
514.00	37.66	320.82	7.90	1049.09	3.70
515.11	10.71	325.40	9.00	1061.45	8.60
518.60	35.39	328.47	2.80	1066.77	3.40
539.21	8.44	356.39	6.60	1076.04	3.30
542.52	7.47	368.67	14.60	1091.27	12.60
574.39	6.17	373.46	2.70		
581.79	13.96	378.13	4.70	Target Nuclide=195Pt	
588.90	37.66	379.50	4.60	Strongest G= 355.68	
589.99	36.04	388.10	2.60	326.35	8.50
600.86	15.26	389.80	30.90	332.98	41.10
634.02	13.96	391.38	2.60	355.68	100.00
636.34	25.00	395.07	13.40	521.17	6.00
657.24	15.91	407.91	6.00	672.90	3.00
661.18	25.32	409.05	5.40	779.63	3.90
682.76	32.14	409.72	5.40	1005.89	2.40
710.27	7.47	414.33	12.00	1047.04	3.00
760.36	21.75	418.74	6.60	1091.33	3.00
860.92	13.31	419.70	48.50	1491.60	2.30
874.54	8.12	425.98	7.20	1802.30	2.60
1538.88	6.10	430.62	6.30	1978.60	2.60
1723.18	11.01	432.41	10.80	5173.40	3.20
6288.10	3.47	432.65	4.80	5255.30	10.40
6370.89	6.75	452.80	4.00	5307.60	2.60
6471.55	2.24	464.67	6.00	5393.70	2.30
6649.95	3.34	472.22	5.30	5612.50	2.50
6692.55	3.80	524.85	18.60	6034.00	2.40
6732.23	3.31	531.26	4.00		
6803.18	8.18	533.25	5.20	Target Nuclide=196Pt	
6819.80	5.55	534.42	4.60	Strongest G= 5846.30	
7162.60	30.57	544.13	4.00	71.53	82.24
		590.90	15.90	98.58	28.04
		594.26	4.60	130.99	10.28
Target Nuclide=194Pt					
Strongest G= 211.41					
98.89	59.90	612.87	7.00	135.21	23.37
100.65	13.10	617.71	2.10	138.13	17.76
123.34	13.00	635.59	3.90	157.38	2.24
		640.33	2.00	167.32	9.16
		647.48	7.50	216.05	10.28

CAPTURE GAMMAS - ordered by nucleus

Page- 65

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=196Pt cont.					
227.62	3.74	146.26	3.43	498.15	4.14
233.27	3.46	146.58	3.43	510.11	2.13
246.15	8.32	154.71	4.02	511.23	7.92
259.25	2.24	158.35	20.57	515.75	3.90
269.12	55.14	166.13	4.14	524.81	3.43
274.08	27.11	168.24	58.16	528.87	21.99
299.34	17.76	169.86	2.01	529.62	4.37
371.45	2.43	170.00	18.44	539.99	5.56
390.38	3.27	170.29	4.49	543.69	4.73
430.89	18.69	180.76	7.09	548.64	6.86
439.35	6.36	188.06	6.97	551.41	4.85
441.81	8.13	191.08	2.01	565.52	3.78
456.81	16.82	192.28	41.84	571.38	5.08
502.44	28.98	192.84	19.86	573.63	2.01
517.11	18.69	202.87	2.96	576.99	2.48
523.77	10.28	204.04	6.97	601.92	5.44
527.18	2.52	206.10	2.60	625.05	3.66
542.22	10.28	214.73	2.13	640.29	5.08
558.42	14.95	214.84	100.00	654.56	6.74
578.31	7.67	215.16	2.01	672.32	3.90
595.17	5.52	219.29	5.20	689.71	2.72
620.10	3.55	234.47	4.85	702.11	3.43
625.50	14.02	235.92	43.97	739.50	3.07
636.73	5.80	236.03	3.43	746.06	3.66
649.22	93.45	247.43	65.25	834.87	3.43
658.74	3.27	260.73	10.17	835.86	3.66
676.12	2.90	261.25	56.74	868.29	2.60
695.04	3.65	266.50	2.96	876.76	2.01
701.93	5.24	271.07	2.25	992.00	2.13
708.35	33.64	271.74	2.36	4787.20	2.84
4868.40	16.82	275.92	2.60	4800.70	13.71
5098.50	93.45	277.09	3.07	4832.10	2.01
5137.80	15.89	291.55	14.89	4854.00	4.96
5344.00	3.65	307.54	6.38	4865.20	4.26
5420.60	5.80	311.73	6.86	4887.50	4.49
5577.20	9.35	314.74	3.78	4897.40	4.96
5715.90	7.67	328.29	21.28	4905.50	5.67
5747.80	2.52	337.34	2.25	4931.60	3.07
5846.30	100.00	343.44	10.17	4958.20	11.58
		346.71	5.79	4999.10	5.67
		350.63	12.29	5035.20	3.43
Target Nuclide=197Au		355.32	3.78	5042.50	3.43
Strongest G= 214.84		370.86	5.44	5080.90	4.49
35.80	6.38	378.09	2.25	5086.30	9.10
55.15	31.21	380.99	40.43	5103.00	16.08
66.35	4.73	383.09	3.07	5109.50	2.84
75.17	64.78	393.65	2.72	5118.70	3.43
77.15	19.15	403.20	2.72	5141.10	6.38
90.95	5.20	418.59	8.98	5149.90	8.51
97.19	58.16	439.25	8.63	5153.50	10.64
101.87	17.02	440.08	12.29	5174.70	4.14
103.50	6.86	444.15	7.21	5206.40	2.84
108.85	5.91	449.33	6.26	5217.80	2.84
137.68	6.86	456.10	3.90	5223.10	2.48
142.83	2.25	457.82	3.66	5226.10	7.80
145.06	4.61	458.13	2.25	5244.40	9.46

CAPTURE GAMMAS - ordered by nucleus

Page- 66

E(g) (keV)	I(g) / I(g) (max) %	E(g) (keV)	I(g) / I(g) (max) %
Target=197Au cont.			
5272.10	7.09	610.19	2.81
5279.50	6.74	628.32	2.45
5303.00	3.55	664.91	7.19
5308.00	3.66	685.63	4.82
5346.20	2.48	706.72	5.25
5355.00	6.03	714.58	14.39
5365.20	3.90	715.83	4.82
5387.20	3.90	735.94	3.74
5396.60	4.14	746.48	11.01
5462.90	4.14	753.06	12.66
5474.40	3.78	755.53	3.02
5493.70	7.80	780.34	12.66
5524.40	14.78	791.78	9.50
5539.90	3.19	819.89	7.27
5594.60	7.68	842.32	7.12
5620.60	6.26	860.45	4.60
5710.70	21.28	902.61	5.90
5724.30	10.17	924.75	4.32
5808.20	4.49	968.33	23.74
5839.70	2.84	992.68	8.92
5880.00	5.44	1072.64	6.12
5941.20	5.67	1103.96	6.91
5983.30	18.44	1159.44	5.97
6106.70	9.10	1249.72	11.94
6145.30	5.32	1419.74	3.09
6149.80	11.82	1430.62	2.30
6165.50	3.19	1446.81	4.53
6252.60	71.87	1456.64	2.16
6264.90	8.39	1496.77	3.31
6276.80	16.19	1543.50	2.88
6320.00	44.21	1572.16	3.74
6457.80	31.44	1572.16	3.74
6513.20	21.99	5813.90	13.31
		6187.98	4.89
		6334.60	7.70
		6424.88	4.68
		6480.28	4.89
		7260.45	6.33
		7267.09	3.45
Target Nuclide=198Au			
Strongest G= 493.77			
185.77	29.28		
191.71	17.55		
219.42	4.46		
239.86	4.10		
246.46	74.82		
317.06	97.84		
323.66	6.83		
425.34	2.16		
465.81	3.67		
468.13	5.32		
474.72	6.12		
493.77	100.00		
505.48	24.68		
521.40	2.66		
524.12	2.88		
542.99	66.91		
562.82	5.47		
590.21	9.86		
601.34	7.91		
Target Nuclide=199Hg			
Strongest G= 367.94			
		367.94	100.00
		579.30	2.36
		661.36	6.87
		886.20	4.33
		1202.35	3.14
		1205.75	3.48
		1225.44	3.39
		1262.96	5.51
		1273.43	2.80
		1408.00	2.71
		1570.45	7.89
		1693.13	13.99
		2002.10	6.53
		2639.90	2.80
		3185.80	2.54
Target Nuclide=201Hg			
Strongest G= 439.50			
		222.10	3.05
		439.50	100.00
		520.30	28.36
		680.30	4.06
		908.50	3.28
		950.30	2.78
		960.10	3.67
		1306.90	2.36
		1354.80	5.00
		1384.00	4.45
		1526.70	2.81
		1686.70	2.34
		1722.00	4.14
		1840.40	2.56
		5473.40	7.03
		5626.90	2.58
		5930.20	6.56
		5960.50	6.56
		6192.00	2.42
		6571.50	2.50
		6793.80	4.06
		7314.40	4.22
		7753.90	12.97
Target Nuclide=203Tl			
Strongest G= 139.90			
		139.90	100.00
		292.80	11.25
		319.30	35.63
		347.90	27.50
		348.30	27.50
		384.10	3.13
		396.00	7.50
		425.10	9.38
		437.70	3.56
		471.90	8.75
		488.30	7.50
		489.50	7.50
		541.00	3.94
		562.90	2.75
		626.70	9.38
		629.90	9.38
		678.80	2.50

Page- 67

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=203Tl cont.		649.40	41.11	6729.36	64.67
713.10	3.75	711.00	7.78		
737.10	9.38	732.30	36.67	Target Nuclide=207Pb	
764.30	3.75	767.70	6.67	Strongest G= 7367.77	
818.50	2.19	840.40	27.78	7367.77	100.00
872.70	8.75	851.20	28.89		
910.90	7.50	961.50	5.56	Target Nuclide=209Bi	
949.90	2.75	1055.20	12.22	Strongest G= 319.70	
1110.00	2.38	1181.60	14.44	91.32	4.49
1121.00	2.75	2378.00	7.78	110.79	3.67
1155.00	3.75	3221.00	4.44	116.50	4.69
1235.00	3.75	4012.00	2.22	154.85	11.63
1293.00	2.56	4516.00	2.22	162.18	67.35
1478.00	5.00	4660.00	3.33	319.70	100.00
4197.50	3.25	4873.00	2.22	408.80	2.45
4226.60	4.25	5015.00	33.33	673.96	9.18
4344.80	3.81	5051.00	2.22	769.22	2.65
4496.90	4.19	5104.00	2.22	774.93	4.69
4542.10	3.06	5143.00	15.56	808.78	3.67
4602.30	2.69	5169.00	2.22	900.15	3.06
4688.90	9.50	5298.00	3.33	971.86	2.22
4706.90	5.63	5386.00	2.22	1337.09	4.08
4753.60	12.44	5422.00	8.89	1596.37	2.06
4841.60	3.81	5505.00	27.78	2505.60	5.10
4868.40	2.50	5854.00	17.78	2598.50	5.10
4914.80	14.56	5868.00	20.00	2624.39	6.94
4945.00	3.00	6198.00	31.11	2828.23	7.96
5015.70	5.31	6238.00	11.11	2897.90	3.88
5129.10	4.25	6504.00	4.44	3081.33	3.67
5181.50	12.75			3214.80	2.45
5262.80	7.06	Target Nuclide=204Pb		3356.87	7.14
5281.20	17.81	Strongest G= 2.33		3396.17	6.94
5405.30	11.63	2.33 100.00		3632.94	5.31
5452.00	6.25	260.50	12.67	4054.72	49.59
5522.40	2.00	262.80	4.27	4101.80	29.80
5534.30	11.13	540.60	3.47	4165.12	4.51
5604.40	24.00	573.80	9.87	4171.15	61.63
5642.70	27.44	576.30	3.20	4257.08	8.78
5918.60	7.56	996.40	3.07	4284.70	2.24
6026.40	2.13	1050.90	2.80		
6167.50	15.44	1120.30	2.53	Target Nuclide=226Ra	
6183.60	7.13	1371.87	9.07	Strongest G= 90.04	
6223.40	6.25	1543.90	11.33	64.27	33.06
6337.10	2.00	1655.80	2.13	90.04	100.00
6515.70	11.69	1812.03	13.33	98.62	11.67
		1909.30	2.00	101.89	30.28
Target Nuclide=205Tl		2117.00	2.13	107.31	6.67
Strongest G= 304.90		4245.40	2.67	110.61	3.06
266.10	88.89	4379.17	2.80	113.03	2.22
278.20	8.89	4613.58	14.67	120.71	9.72
304.90	100.00	4644.04	5.07	135.28	7.22
330.20	51.11	4812.48	2.67	135.52	12.78
369.30	31.11	4919.27	12.53	145.14	5.56
384.60	3.33	5356.50	9.07	151.18	2.78
535.50	8.89	5927.94	4.27	151.55	2.50
540.90	6.67	6468.86	14.27	153.27	3.61

CAPTURE GAMMAS - ordered by nucleus

Page- 68

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %
Target=226Ra cont.		695.20	3.06	3962.60 5.17
160.30	2.22	696.98	8.61	3981.82 6.83
161.05	5.28	752.14	7.50	4023.87 3.83
161.17	3.89	756.15	2.50	4062.44 13.61
163.56	22.78	866.10	17.50	4085.10 2.61
175.23	4.44	892.04	11.67	4096.72 19.28
175.87	18.06	990.36	15.83	4113.98 18.72
182.39	3.61	3885.60	6.94	4157.42 6.28
187.27	2.50	4178.00	4.44	4182.51 5.06
194.26	3.06	4277.20	8.06	4242.45 12.72
202.39	8.61	4399.50	2.50	4271.70 2.78
206.54	5.00	4471.30	12.50	4278.73 15.06
225.47	5.00			4284.91 72.78
257.12	2.50	Target Nuclide=230Th		4297.14 6.11
284.31	3.61	Strongest G= 185.71		4404.39 28.33
294.52	2.22	59.32	2.17	4424.61 9.67
310.27	2.78	89.44	7.17	4523.95 11.11
316.62	2.22	143.76	17.78	4527.09 45.56
321.76	3.61	163.36	2.28	4563.45 36.11
340.45	8.33	185.71	100.00	4738.10 10.00
347.25	6.39	198.93	10.00	4769.80 2.78
348.80	3.89	221.40	53.33	4845.92 12.00
368.12	2.50	233.47	3.78	4896.82 5.28
369.67	17.50	239.55	2.22	5117.69 3.28
378.73	6.94	240.88	14.44	
381.56	12.22	272.18	3.44	Target Nuclide=232Th
382.08	4.17	275.13	3.61	Strongest G= 3473.00
384.35	32.22	282.47	12.22	54.54 2.16
396.49	10.56	301.74	2.17	159.22 9.59
401.80	5.00	307.06	9.06	182.12 2.16
402.70	2.22	368.93	4.28	201.68 2.88
405.98	3.06	372.22	3.56	211.87 7.19
411.14	2.22	405.12	5.56	229.02 7.43
411.85	2.50	407.90	8.67	230.78 3.36
413.03	11.11	424.03	2.00	233.28 3.36
433.82	20.56	443.63	5.22	236.81 2.88
437.07	5.00	460.75	3.00	256.19 42.45
438.77	6.67	466.23	3.00	258.33 3.84
449.26	6.94	498.77	6.94	263.02 3.36
455.66	5.28	514.99	2.61	277.55 6.47
456.06	7.50	528.04	3.89	278.19 4.08
473.33	6.94	647.53	3.56	281.36 7.43
475.02	10.56	687.66	3.72	297.08 2.16
479.34	6.11	689.93	2.72	313.81 4.32
514.84	12.50	709.22	3.11	316.64 18.23
532.87	3.33	811.41	2.11	319.07 34.29
534.34	3.33	982.44	2.44	320.79 2.40
548.79	6.11	1014.33	2.28	327.53 4.56
572.71	2.50	1186.82	2.11	329.88 9.59
585.80	7.78	3843.60	2.83	331.31 12.95
611.82	3.33	3866.66	6.83	335.93 36.93
629.76	7.78	3899.07	5.89	354.31 17.27
631.33	3.61	3904.26	7.11	361.80 2.16
641.77	3.33	3917.71	8.17	365.11 2.16
671.40	3.06	3946.19	4.06	366.62 2.40
679.98	3.89	3958.49	54.44	381.36 2.40

CAPTURE GAMMAS - ordered by nucleus

Page- 69

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=232Th	cont.	667.47	6.95	918.68	6.71
405.44	4.56	681.85	38.85	940.53	7.43
432.25	2.16	684.97	5.76	942.83	7.91
456.27	2.16	694.40	2.40	951.40	2.16
464.96	11.51	696.85	7.67	967.13	9.59
471.28	2.88	701.80	3.60	970.16	6.71
472.30	69.54	703.61	2.88	977.11	11.51
487.84	8.15	704.98	10.79	979.78	5.28
506.25	3.36	705.16	12.47	990.88	6.71
521.66	3.60	705.63	8.39	996.15	3.84
522.76	43.41	707.35	3.12	1001.90	2.64
526.63	3.60	711.18	2.16	1004.26	5.76
529.91	3.12	713.72	10.55	1012.97	17.99
531.58	18.23	714.38	5.76	1014.85	18.94
535.28	3.36	715.06	8.63	1022.60	11.27
539.60	27.82	721.95	4.08	1023.62	17.99
542.97	3.12	725.48	8.87	1031.10	2.16
548.18	18.47	735.30	6.24	1034.27	9.35
548.95	3.12	741.22	6.24	1044.68	5.76
553.39	3.36	751.25	3.12	1052.11	5.28
556.93	18.23	752.62	4.08	1055.39	5.76
561.09	15.11	764.98	3.36	1062.34	6.47
564.56	18.23	769.83	2.88	1073.91	12.95
566.63	91.13	780.77	2.16	1081.40	2.16
569.19	4.56	786.45	2.64	1097.20	4.32
574.37	3.12	788.14	3.36	1101.15	9.35
577.89	43.17	793.89	3.84	1105.50	3.36
578.61	9.83	797.25	10.55	1109.40	3.36
579.99	5.28	798.08	7.43	1117.70	4.32
582.44	3.84	806.44	2.40	1125.70	4.56
583.07	12.71	808.71	10.79	1128.90	2.64
583.93	24.46	814.74	11.75	1133.75	5.76
585.56	3.84	825.37	3.84	1145.66	4.80
586.14	18.71	826.77	8.39	1151.70	3.60
588.72	4.80	828.67	11.03	1154.30	3.60
590.04	2.16	830.41	9.11	1158.00	3.60
593.21	18.47	832.09	9.59	1164.20	6.24
595.34	3.84	833.63	15.59	1166.80	2.88
599.08	5.76	835.05	13.43	1171.33	4.08
602.23	5.04	836.65	8.15	1176.53	6.24
605.44	23.74	839.50	2.64	1185.10	3.84
612.10	9.11	842.47	2.16	1196.50	6.24
622.95	4.80	844.55	3.60	1212.20	2.40
627.20	17.27	846.93	6.95	2485.70	14.39
628.38	5.04	850.01	3.84	2503.70	16.79
629.79	3.84	853.25	4.56	2524.80	14.15
631.74	3.12	860.01	4.08	2542.40	11.75
632.47	2.16	861.64	5.76	2545.40	13.67
638.10	2.16	869.87	6.24	2551.90	14.39
642.07	6.47	872.34	9.83	2558.20	11.27
647.70	2.64	875.03	5.04	2591.00	11.99
658.23	4.32	885.74	3.36	2596.90	18.94
659.30	5.28	890.36	6.24	2606.70	12.71
660.49	2.40	891.74	8.15	2610.00	14.63
661.88	3.36	907.42	4.80	2630.10	13.67
665.25	34.05	913.63	4.80	2636.20	9.83

CAPTURE GAMMAS - ordered by nucleus

Page- 70

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=232Th	cont.				
2641.20	18.94	3341.70	29.26	323.85	2.86
2653.40	23.98	3363.70	8.15	332.84	12.86
2659.50	23.50	3377.90	24.22	341.51	10.57
2671.80	15.83	3391.10	9.11	345.00	10.00
2689.10	10.79	3398.30	30.94	367.15	3.14
2703.20	20.14	3436.15	35.25	371.33	2.00
2712.40	20.14	3448.50	37.89	373.74	2.00
2716.70	8.87	3461.60	12.47	375.04	28.57
2720.00	22.78	3473.00	100.00	376.09	4.00
2732.80	15.83	3503.10	8.63	378.83	2.86
2739.70	10.31	3509.50	23.74	380.17	54.86
2744.80	11.75	3523.10	10.55	392.55	8.86
2759.90	8.63	3526.90	18.94	393.14	60.29
2771.60	8.15	3530.10	24.94	399.53	4.29
2784.20	13.91	3548.10	6.95	412.31	6.86
2790.40	7.43	3600.90	8.15	413.71	26.00
2795.30	9.59	3603.50	13.43	422.60	5.14
2807.30	21.10	3615.30	7.67	445.74	5.71
2815.60	6.47	3635.30	10.07	454.56	2.57
2822.00	16.31	3654.20	4.80	478.10	10.29
2824.90	24.46	3712.60	7.67	491.13	11.71
2838.30	11.99	3725.20	14.15	504.84	10.86
2841.90	8.63	3735.60	17.51	558.30	3.43
2850.90	11.51	3746.20	14.87	564.07	2.29
2880.90	16.79	3755.10	17.51	582.75	3.43
2891.40	7.43	3802.70	10.31	595.44	2.86
2923.80	8.39	3839.20	3.12	599.24	11.71
2926.60	5.76	3862.00	10.79	602.37	5.71
2944.30	2.88	3867.20	2.16	608.40	3.71
2970.30	11.03	3882.90	2.40	611.63	2.86
2980.70	17.75	3933.20	2.88	612.84	11.14
2989.50	11.75	3946.40	42.45	615.80	6.00
3009.90	5.52	3971.80	7.19	617.21	14.29
3045.10	5.76	4016.60	5.52	618.34	20.00
3049.60	6.00	4045.10	18.23	621.90	5.71
3055.70	10.79	4073.00	13.43	624.75	17.43
3058.60	9.11	4104.60	3.60	624.78	8.57
3070.60	9.11	4202.00	15.59	633.09	57.14
3087.00	16.07	4213.80	3.12	637.77	100.00
3118.00	9.83	4246.90	14.87	640.40	6.57
3127.60	10.55	4450.40	9.35	642.60	2.00
3132.70	12.23	4523.80	2.40	645.89	38.29
3148.30	38.37	4769.60	7.91	649.50	5.71
3174.00	16.55			652.05	37.43
3184.90	15.83	Target Nuclide=234U		654.80	2.57
3196.50	27.34	Strongest G= 637.77		658.16	13.14
3228.90	10.55	68.70	2.29	658.86	25.71
3231.60	11.27	77.60	4.57	664.52	16.57
3245.50	5.28	116.26	5.43	670.70	5.14
3261.20	7.19	129.30	92.29	679.83	4.29
3268.90	3.60	161.45	4.29	685.86	18.57
3276.50	9.35	182.85	2.29	690.73	9.71
3288.05	21.58	195.70	2.29	691.88	2.57
3295.30	8.87	203.55	14.57	693.81	7.14
3326.60	18.23	263.92	4.57	698.30	4.29
		316.44	7.43	703.68	20.00

CAPTURE GAMMAS - ordered by nucleus

Page- 71

E(g) (keV)	I(g)/I(g) (max) %		E(g) (keV)	I(g)/I(g) (max) %	
Target=234U	cont.	983.20	2.86	1337.10	7.14
714.57	12.57	986.92	10.00	1344.50	3.14
718.23	16.86	990.13	18.29	1349.70	2.00
720.55	2.29	992.64	8.29	1354.40	5.43
727.86	4.29	995.40	11.43	1357.90	12.00
733.93	3.71	1002.20	9.71	1367.10	3.43
735.91	11.43	1009.20	2.86	1369.30	5.14
747.97	35.43	1015.90	7.14	1372.00	2.29
750.72	3.71	1019.80	5.14	1377.40	2.57
756.19	4.00	1032.70	4.29	1382.50	11.43
756.87	4.86	1045.00	9.43	1386.90	3.14
760.26	2.86	1047.50	7.43	1391.30	8.00
760.98	2.86	1057.30	4.86	1393.90	2.86
766.47	4.57	1060.10	2.86	1397.20	2.86
767.29	4.29	1072.60	8.29	1399.90	6.57
769.15	8.57	1078.20	2.00	1412.70	6.86
769.87	42.00	1085.80	3.71	1422.90	2.29
775.30	6.57	1090.90	4.00	1425.60	5.43
775.96	2.00	1095.60	5.14	1435.90	2.57
779.42	5.43	1099.00	2.86	1438.30	4.57
786.90	10.00	1111.40	2.00	1449.00	3.71
792.58	7.71	1115.60	2.00	1450.90	2.00
798.92	6.29	1124.40	2.00	1461.60	4.57
803.40	3.14	1142.20	16.57	1464.30	5.14
805.65	10.00	1145.00	2.29	1468.30	2.29
808.19	3.14	1157.70	2.57	1477.90	5.14
813.51	16.29	1164.80	4.57	1493.70	2.57
823.60	2.29	1167.70	2.29	1496.20	2.29
828.82	4.29	1173.00	6.00	3809.50	2.29
831.55	10.00	1177.00	2.00	3813.70	2.57
840.26	5.43	1185.50	7.71	3834.20	3.43
843.78	17.14	1194.20	6.86	3848.70	8.86
849.90	2.29	1197.50	2.86	3858.40	3.14
852.41	7.14	1202.50	2.57	3884.50	18.29
863.67	4.86	1220.60	5.71	3893.10	2.86
878.75	6.00	1224.40	5.14	3909.30	6.00
889.50	9.14	1226.60	4.00	3915.10	15.71
892.30	3.43	1233.10	10.00	3939.00	6.00
905.00	3.43	1245.40	4.00	3995.20	4.57
911.80	2.86	1246.40	6.57	4000.50	4.57
916.78	2.00	1252.40	4.00	4025.00	8.86
918.20	2.86	1265.40	4.86	4031.80	3.14
927.80	3.43	1269.00	5.14	4103.10	16.57
938.90	2.00	1272.30	2.29	4112.00	2.57
941.20	2.29	1279.80	2.29	4154.80	27.14
944.90	3.43	1283.60	7.14	4168.30	10.57
948.50	20.00	1293.60	13.43	4223.90	2.86
950.94	20.29	1296.70	5.43	4262.70	4.29
955.40	12.86	1301.30	8.00	4286.90	2.86
962.20	2.00	1304.80	2.57	4295.10	10.57
965.30	2.86	1308.10	8.00	4405.60	2.86
968.37	11.43	1318.20	3.14	4432.60	2.00
969.82	7.43	1319.60	3.71	4492.30	2.57
977.51	5.43	1324.30	2.57	4527.80	25.43
978.90	2.86	1331.40	4.86	4536.90	3.14
981.20	3.43	1333.90	2.86	4594.00	22.00

Page- 72

E (g) (keV)	I (g) / I (g) (max) %
----------------	--------------------------

Target=234U	cont.	612.25	37.19	430.85	4.70
5245.90	2.29	629.72	11.56	461.55	2.30
		638.51	6.56	496.61	3.90
Target Nuclide=235U		687.93	4.38	538.30	2.60
Strongest G=	642.20	690.03	6.88	541.20	2.80
642.20	100.00	715.72	3.44	555.25	2.30
687.50	31.03	723.95	3.13	557.20	2.80
810.90	4.66	726.23	5.31	584.35	3.00
852.20	2.24	768.00	3.13	606.70	2.40
886.20	2.93	787.16	3.13	620.10	3.80
903.50	4.66	794.06	3.13	646.80	4.20
909.10	13.10	827.90	3.75	648.20	3.70
912.70	5.52	831.84	8.44		
915.10	6.90	842.50	3.75	Target Nuclide=238Pu	
920.50	4.14	853.23	8.75	Strongest G=	462.20
922.10	9.31	893.30	2.50	392.70	6.98
943.00	16.21	983.42	4.06	429.70	32.56
956.20	17.76	1029.35	5.94	434.90	72.09
958.30	7.76	1060.60	2.50	448.50	4.65
959.90	5.52	1066.82	4.69	462.20	100.00
977.40	10.17	1089.60	2.19	470.10	55.81
990.20	2.59	1167.00	3.13	484.30	9.30
1006.00	7.59	1196.50	2.50	492.20	53.49
1014.10	13.10	3197.20	2.59	497.60	32.56
1064.70	2.07	3583.10	6.72	499.40	11.63
6395.70	5.52	3611.90	2.31	695.60	9.30
		3982.80	4.13	744.60	18.60
Target Nuclide=238U		3991.40	3.81	752.50	23.26
Strongest G=	11.98	4060.36	22.81	790.40	39.53
11.98	100.00			797.30	23.26
48.23	40.63	Target Nuclide=237Np		798.20	27.91
133.80	60.94	Strongest G=	182.85	805.10	6.98
250.07	5.31	49.37	48.00	817.50	23.26
292.59	2.50	60.16	3.50	825.50	51.16
487.22	4.38	72.89	4.20	888.40	11.63
496.74	5.31	73.81	3.10	925.70	2.33
521.85	15.63	82.23	4.10	933.60	9.30
535.42	4.38	102.64	3.20	4547.10	16.98
539.30	15.63	107.21	4.80	4714.70	4.19
542.12	3.75	109.69	9.90	4759.00	2.33
542.34	5.63	115.76	2.40	4821.80	55.81
552.07	32.81	136.00	4.20	4842.00	8.37
554.05	13.44	152.94	4.00	4848.80	4.65
554.10	4.38	153.74	2.90	4894.90	4.65
562.03	5.00	156.43	34.00	5154.60	8.14
563.17	2.19	160.63	2.90	5176.90	53.49
580.32	6.88	182.85	100.00	5646.60	4.65
581.98	2.50	189.08	3.40		
588.88	3.75	215.49	5.60	Target Nuclide=239Pu	
590.39	5.31	217.60	2.20	Strongest G=	5575.00
592.33	7.19	232.37	4.50	5123.80	58.00
593.61	17.19	236.00	5.10	5292.70	38.00
600.28	4.69	243.92	27.00	5575.00	100.00
600.51	9.06	250.30	2.50	5633.60	10.00
605.58	8.44	297.70	6.00	5673.30	9.00
611.37	2.19	332.15	6.90	5936.60	13.00

Page- 73

Target=239Pu cont.		220.80	7.80	136.38	3.43
6491.20	30.00	230.40	22.46	222.83	5.39
		236.80	2.72	225.12	2.87
Target Nuclide=240Pu		240.20	4.49	244.47	19.57
Strongest G= 4276.50		243.70	4.96	248.10	4.78
577.40	6.67	251.20	5.20	287.50	2.91
593.60	17.14	254.80	3.78	288.52	2.52
598.70	6.67	257.80	2.36	291.41	3.09
608.10	17.14	268.00	3.55	296.85	5.70
629.70	8.57	274.45	51.77	307.45	3.96
639.80	8.57	293.10	4.26	314.38	4.09
671.30	2.38	296.35	6.62	317.21	6.96
680.60	2.38	312.75	2.48	318.65	3.13
688.70	2.38	322.55	6.86	319.53	6.65
758.70	2.38	324.55	2.84	330.96	2.65
772.00	2.86	328.55	5.44	338.46	2.35
781.30	9.52	332.70	9.69	341.17	9.57
784.40	2.38	335.45	27.42	353.69	2.13
794.20	10.00	346.90	3.78	366.00	3.96
800.50	3.81	366.35	4.26	375.78	2.43
803.30	8.57	368.70	13.24	527.25	2.91
841.00	3.81	371.90	2.25	941.95	2.22
4151.30	85.71	376.60	8.51	982.36	2.00
4276.50	100.00	382.75	2.01	983.14	2.43
4300.00	71.43	384.70	5.67	1084.18	2.26
4391.50	80.95	390.95	4.37	1408.32	2.39
4400.20	38.10	406.95	2.36	4217.30	7.17
4456.90	42.86	435.05	11.11	4297.30	2.61
4472.30	47.62	448.00	3.19	4305.40	2.39
5070.80	14.29	450.65	3.78	4322.20	2.61
5080.30	47.62	453.45	3.78	4338.10	10.39
		466.90	2.72	4369.00	13.30
Target Nuclide=241Pu		479.85	6.62	4417.30	9.35
Strongest G= 5476.90		493.30	3.19	4435.40	4.09
3871.70	8.00	496.25	2.60	4454.40	4.39
4217.00	10.50	544.15	2.60	4467.20	10.09
4482.70	11.00	574.90	3.55	4474.90	15.96
4564.30	5.50	579.30	2.01	4485.00	3.17
5157.00	23.50	616.80	4.26	4490.90	9.48
5245.20	6.50	619.20	2.36	4507.20	7.17
5269.60	8.50	640.70	4.49	4523.60	13.78
5289.90	36.00	653.05	3.66	4533.40	5.35
5476.90	100.00	659.30	2.13	4557.00	4.35
6162.00	5.50	662.55	15.84	4566.90	2.17
6264.40	6.00	709.40	3.07	4585.90	11.74
		722.15	8.51	4632.70	5.00
Target Nuclide=241Am		1164.75	3.19	4655.10	2.17
Strongest G= 186.40		5174.00	2.36	4670.30	3.87
146.50	11.35			4696.00	5.65
154.65	89.13	Target Nuclide=243Am		4751.00	11.30
169.20	6.86	Strongest G= 87.65		4757.20	10.87
182.00	4.26	72.80	2.83	4781.50	3.91
186.40	100.00	75.35	66.52	4829.60	3.04
191.80	21.28	87.65	100.00	4909.50	54.35
194.90	43.97	91.93	2.70	4920.50	4.13
208.00	33.57	113.56	4.91	4934.60	8.26

CAPTURE GAMMAS - ordered by nucleus

Page- 74

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=243Am cont.		167.65	2.51	550.30	6.10
4951.60	11.74	171.59	4.46	588.92	9.54
5004.80	3.91	181.78	5.28	589.84	4.92
5017.30	2.22	193.24	2.82	602.24	4.36
5069.60	2.17	193.80	4.10	621.59	6.31
5077.20	2.91	208.01	8.10	630.19	4.10
5242.90	4.96	218.70	2.92	658.45	5.08
		225.94	2.15	705.65	5.23
Target Nuclide=248Cm		230.64	4.05	724.44	11.44
Strongest G= 1408.28		236.78	2.46	743.07	5.64
40.11	9.13	240.25	3.03	772.80	6.36
40.15	10.26	240.62	6.05	778.44	3.23
41.55	7.69	240.78	4.77	786.29	14.26
57.96	8.92	257.74	8.26	787.35	3.54
58.06	7.59	265.72	2.36	819.58	8.62
59.28	22.15	267.16	6.72	830.70	23.74
59.37	12.77	269.67	6.31	831.06	25.64
65.14	5.79	269.91	6.26	832.70	12.46
66.81	7.85	275.39	3.74	846.23	30.26
66.90	5.13	280.77	4.62	860.80	6.36
67.21	4.67	302.59	4.36	861.39	4.82
68.18	4.00	312.12	2.72	891.25	6.51
75.74	7.38	314.16	3.44	899.92	7.23
75.86	4.21	316.33	3.08	914.74	7.33
76.65	3.23	339.23	2.10	941.96	18.67
78.39	3.28	340.01	5.90	957.63	3.95
83.92	2.10	340.37	5.33	963.06	4.10
84.70	3.28	343.02	3.08	968.23	7.79
97.80	2.26	343.17	2.46	981.68	41.03
102.66	19.23	348.75	3.69	982.13	47.69
102.78	14.72	349.56	2.67	983.06	60.00
114.86	4.00	349.83	3.38	983.92	42.56
115.06	8.00	353.77	2.00	1012.19	26.67
115.31	2.31	357.68	2.87	1013.69	45.13
117.71	2.46	366.69	3.69	1014.87	25.64
125.06	2.72	373.89	2.46	1073.59	8.72
129.15	4.26	400.20	6.10	1127.37	11.28
129.86	5.59	400.40	7.33	1135.01	14.36
130.26	7.85	400.58	8.67	1175.78	10.77
133.66	6.97	400.82	6.67	1186.71	20.51
137.19	3.23	401.63	3.44	1193.67	11.28
137.82	5.79	415.07	2.26	1225.21	15.38
138.36	4.46	422.02	18.41	1239.76	7.69
146.48	3.95	422.94	3.79	1252.34	11.28
147.84	2.05	434.01	2.97	1269.50	19.49
148.15	2.92	447.31	2.26	1278.95	14.36
149.74	2.36	468.26	10.67	1283.46	47.18
150.27	5.08	470.20	15.38	1284.78	15.38
153.85	2.00	494.48	13.95	1313.51	16.41
158.54	5.08	497.38	3.38	1334.56	18.46
158.88	2.72	505.95	5.64	1342.02	13.33
159.21	5.08	524.55	5.38	1365.19	13.85
159.76	4.62	531.72	5.13	1408.28	100.00
161.39	3.23	535.55	3.95	1435.74	17.44
162.31	4.10	539.36	4.97	1480.06	6.15
165.82	2.92	548.63	2.72	1525.72	41.54

CAPTURE GAMMAS - ordered by nucleus

Page- 75

E (g) (keV)	I (g) / I (g) (max) %		E (g) (keV)	I (g) / I (g) (max) %	
Target=248Cm cont.		3509.70	19.44	3796.10	10.87
1590.50	29.23	3538.30	51.28	3854.50	2.82
1622.91	82.56	3560.60	18.62	4022.90	6.62
3399.00	5.38	3663.50	15.13	4219.00	29.28
3444.90	37.38	3702.10	4.72	4243.50	18.05
3450.10	3.44	3750.70	31.64	4406.50	3.85