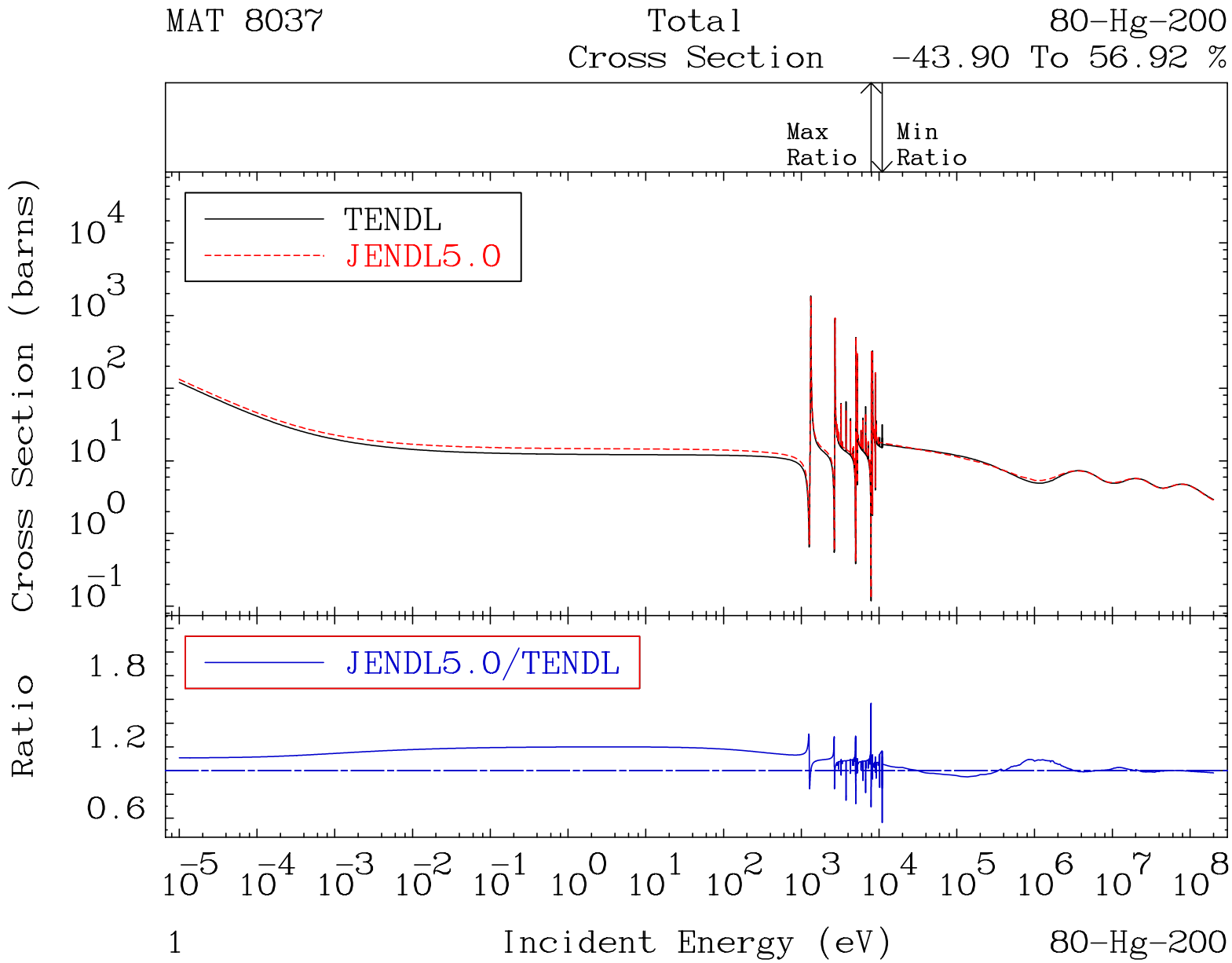
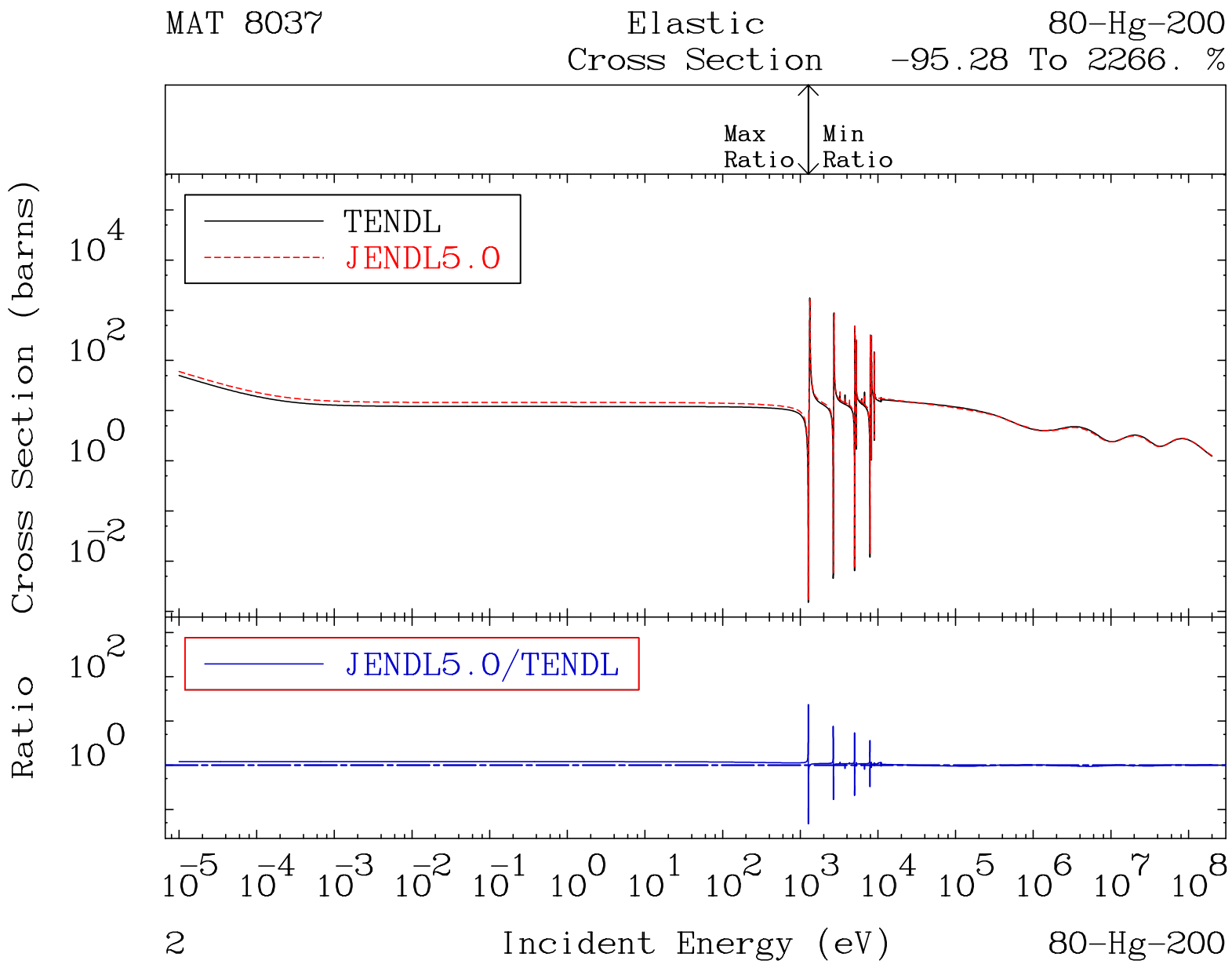
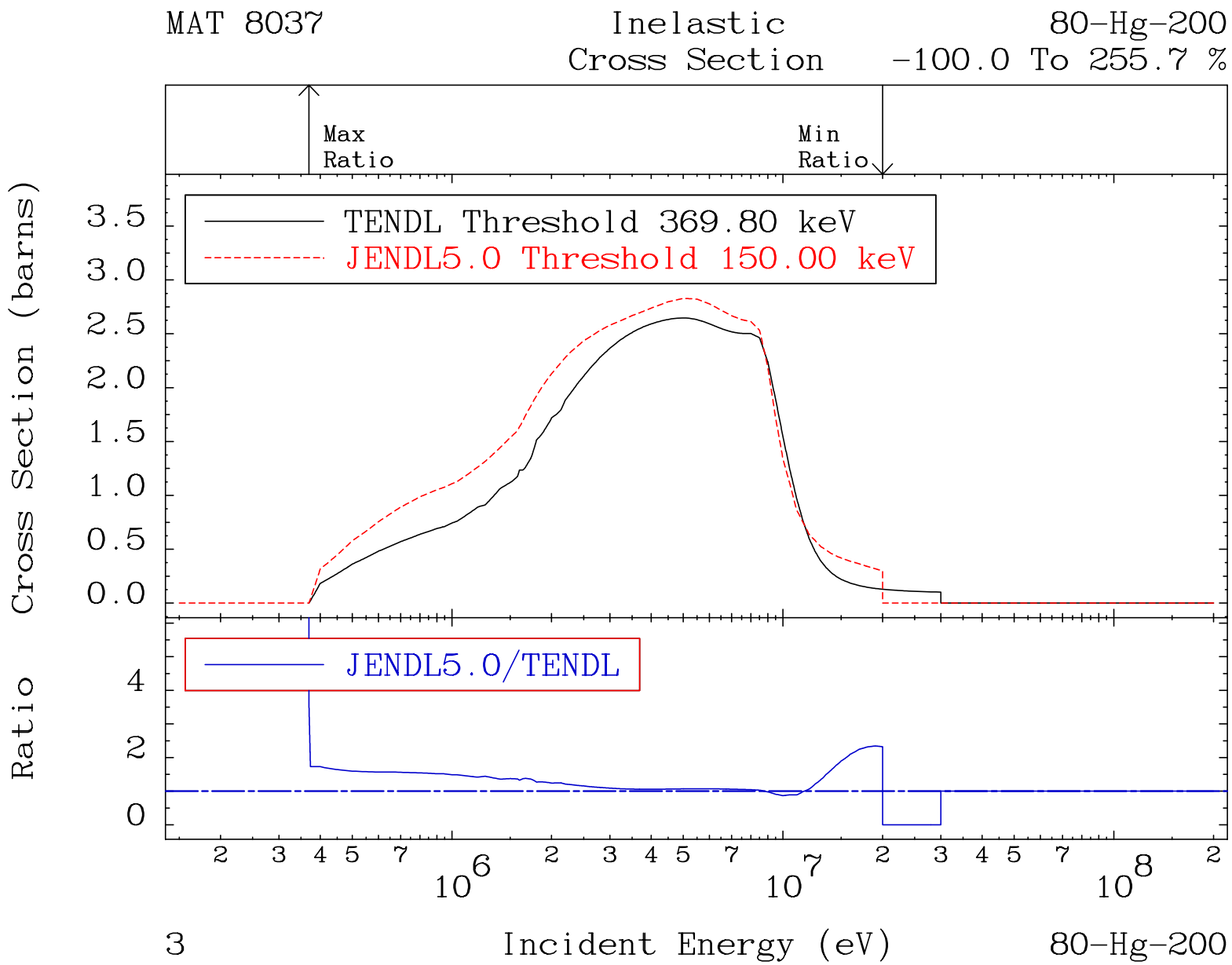
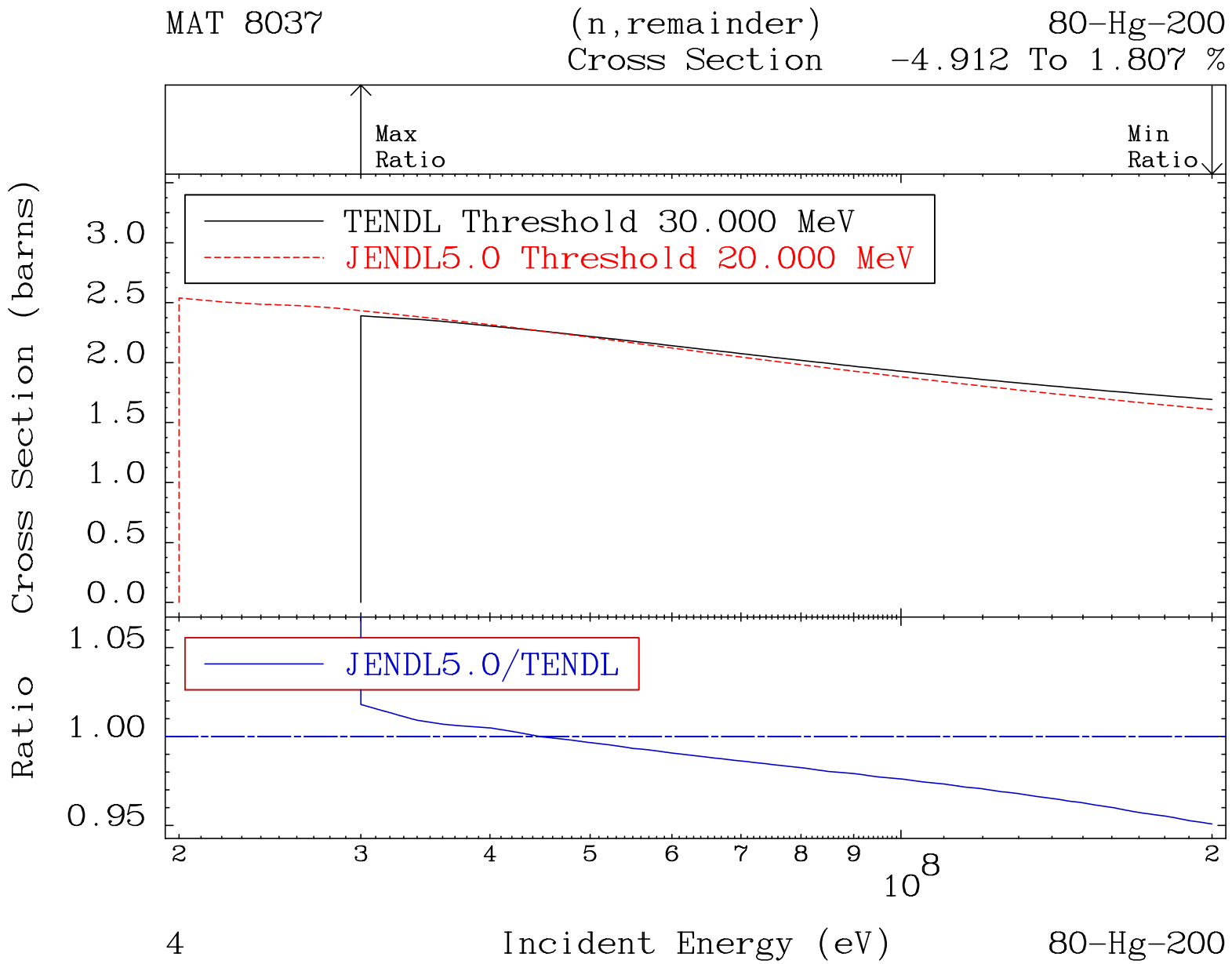
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

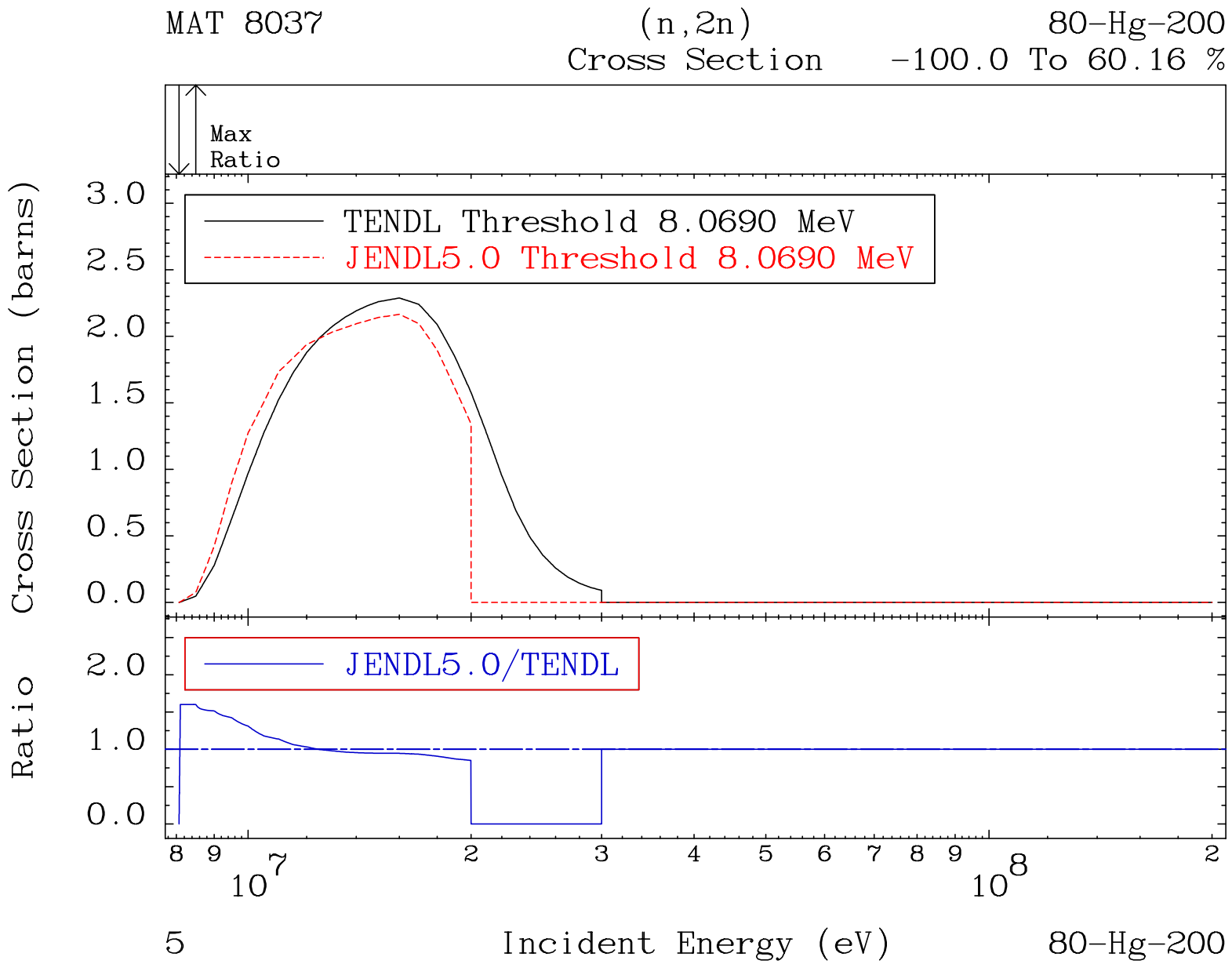
Press Mouse Button to Start

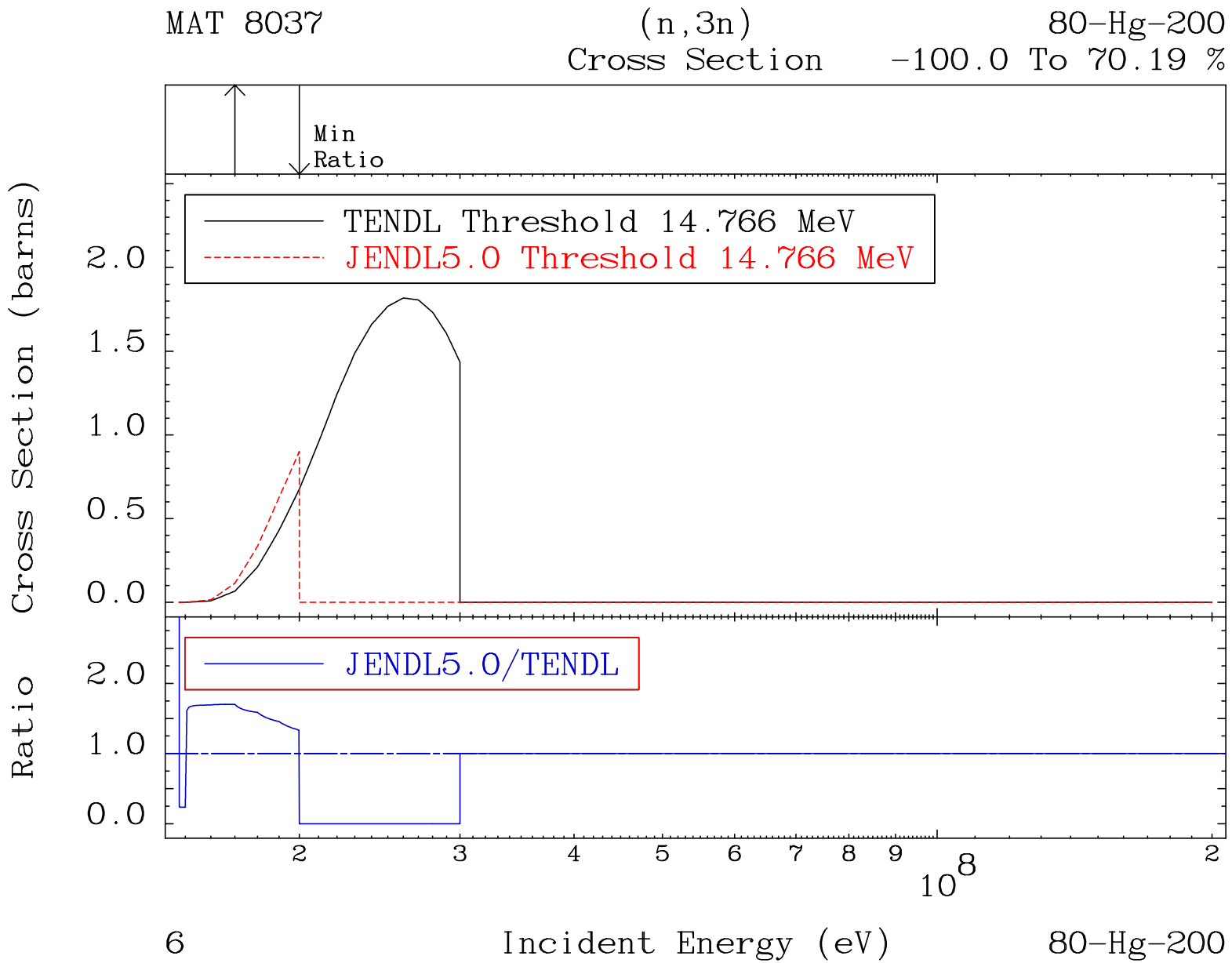

MAT 8037
Total
Cross Section
80-Hg-200
-43.90 To 56.92 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
80-Hg-200
1

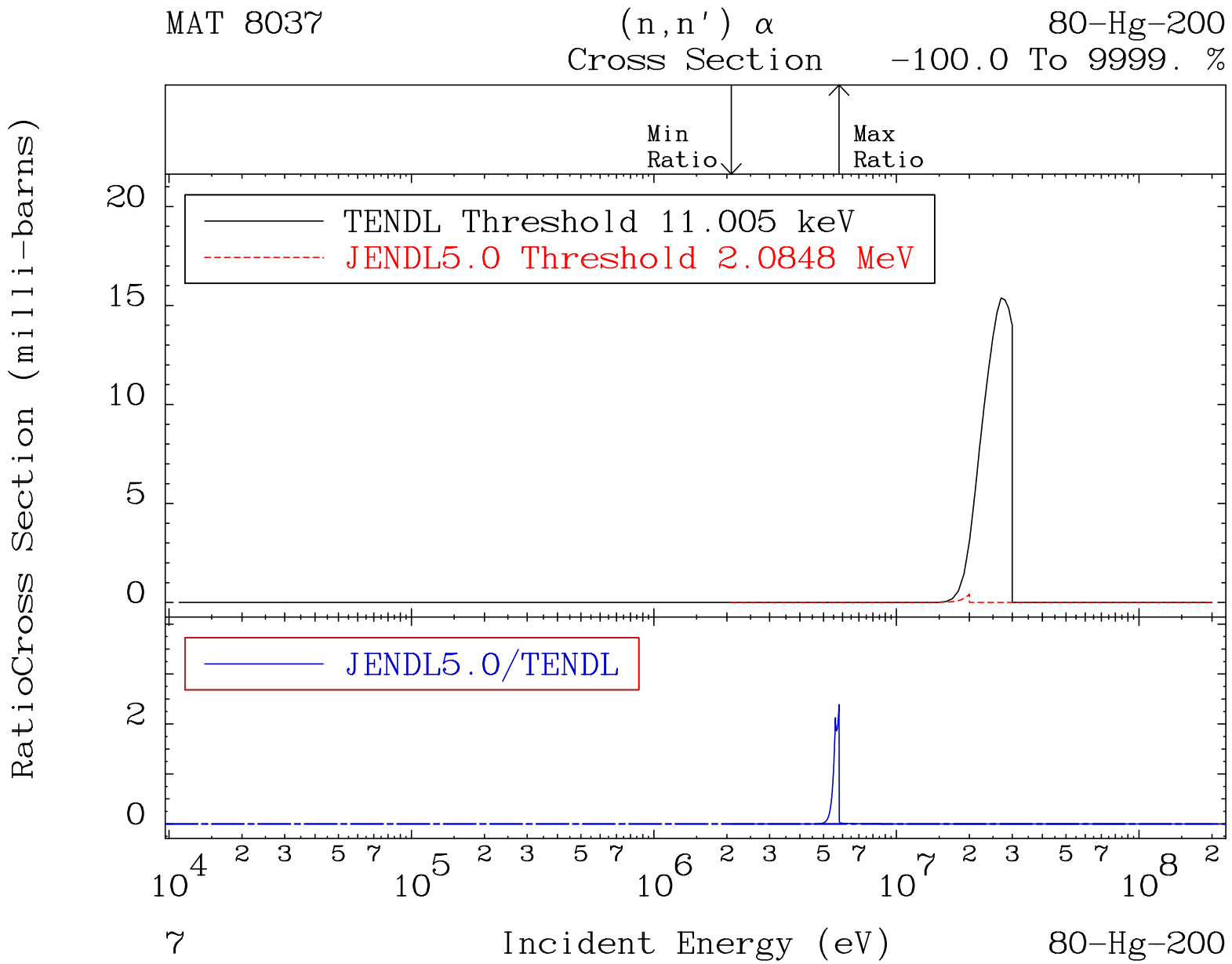

MAT 8037
Elastic
Cross Section
80-Hg-200
-95.28 To 2266. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
80-Hg-200

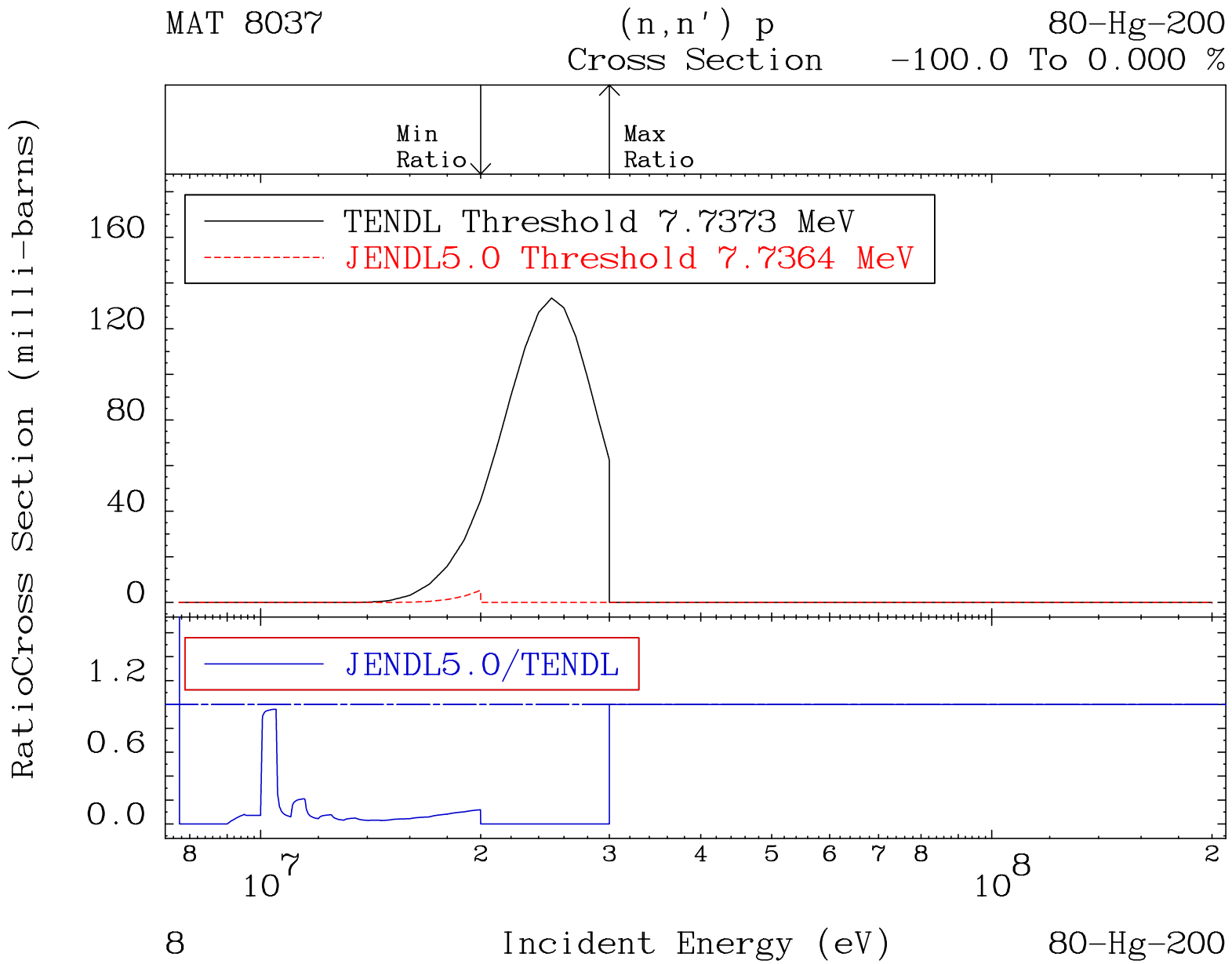

MAT 8037
Inelastic
Cross Section
80-Hg-200
-100.0 To 255.7 %
Max
Ratio
Min
Ratio
TENDL Threshold 369.80 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
3
80-Hg-200

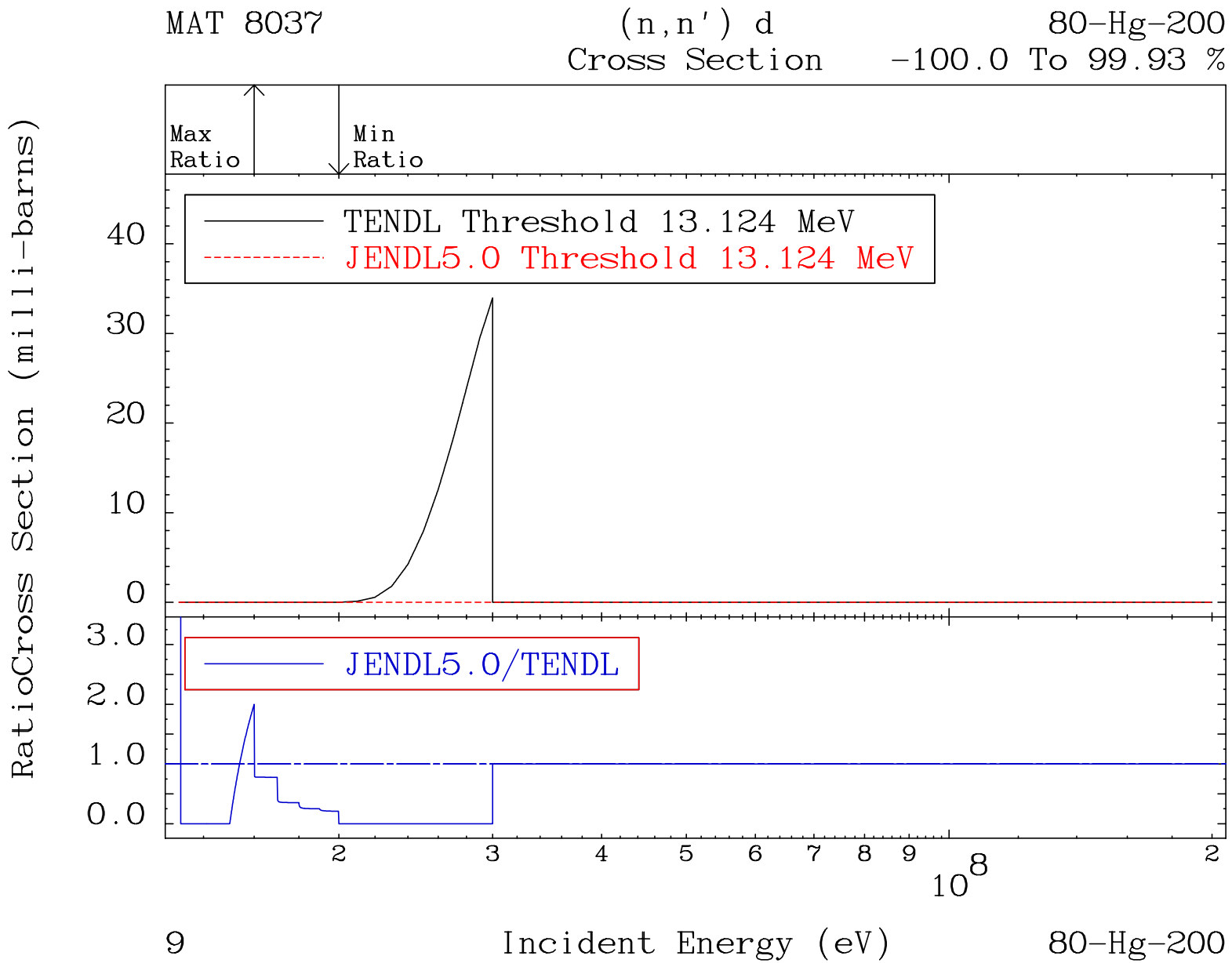

MAT 8037
(n,remainder)
Cross Section
80-Hg-200
-4.912 To 1.807 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.05
1.00
0.95
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
80-Hg-200

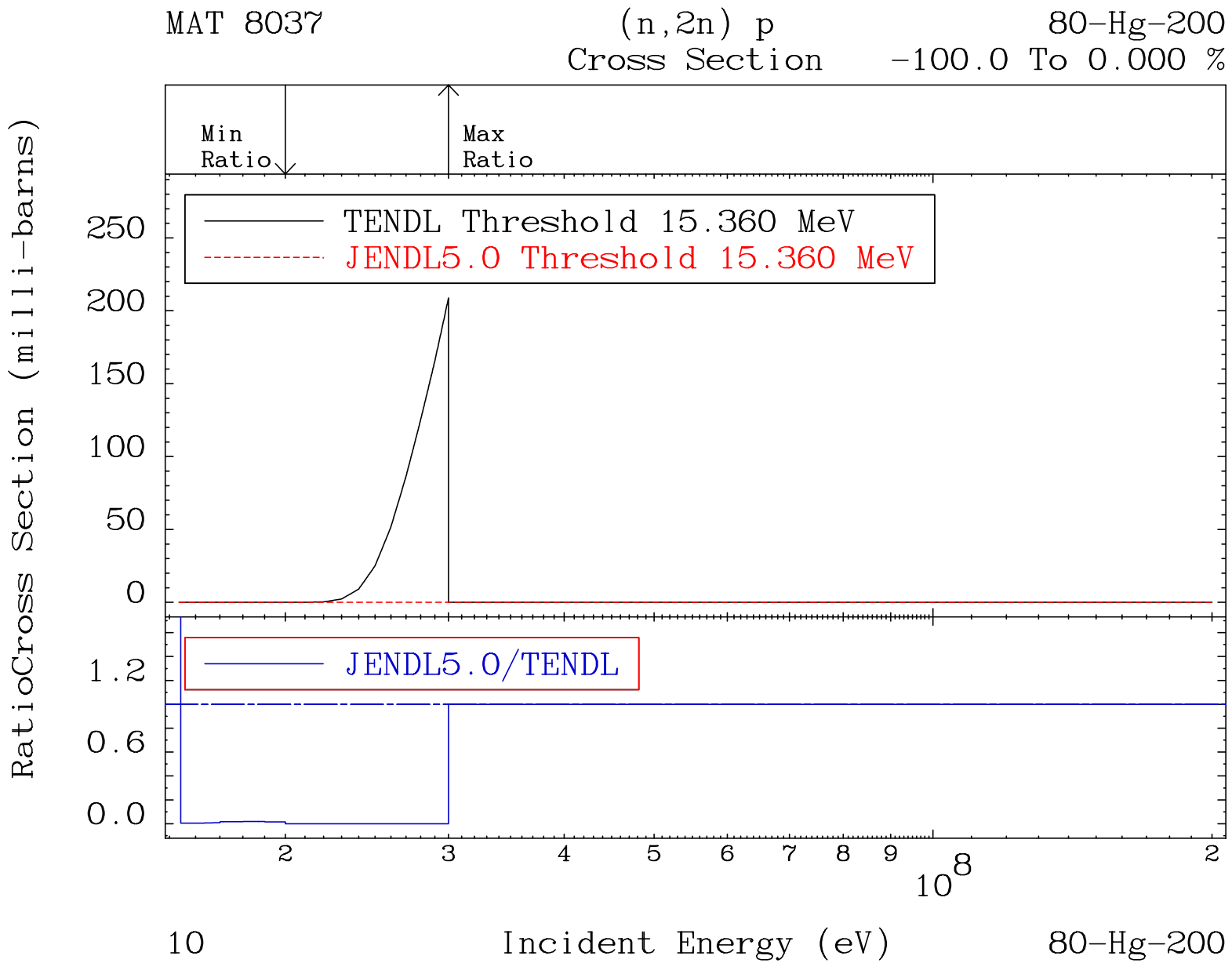

MAT 8037
(n,2n)
Cross Section
80-Hg-200
-100.0 To 60.16 %
Max
Ratio
TENDL Threshold 8.0690 MeV
JENDL5.0 Threshold 8.0690 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
80-Hg-200

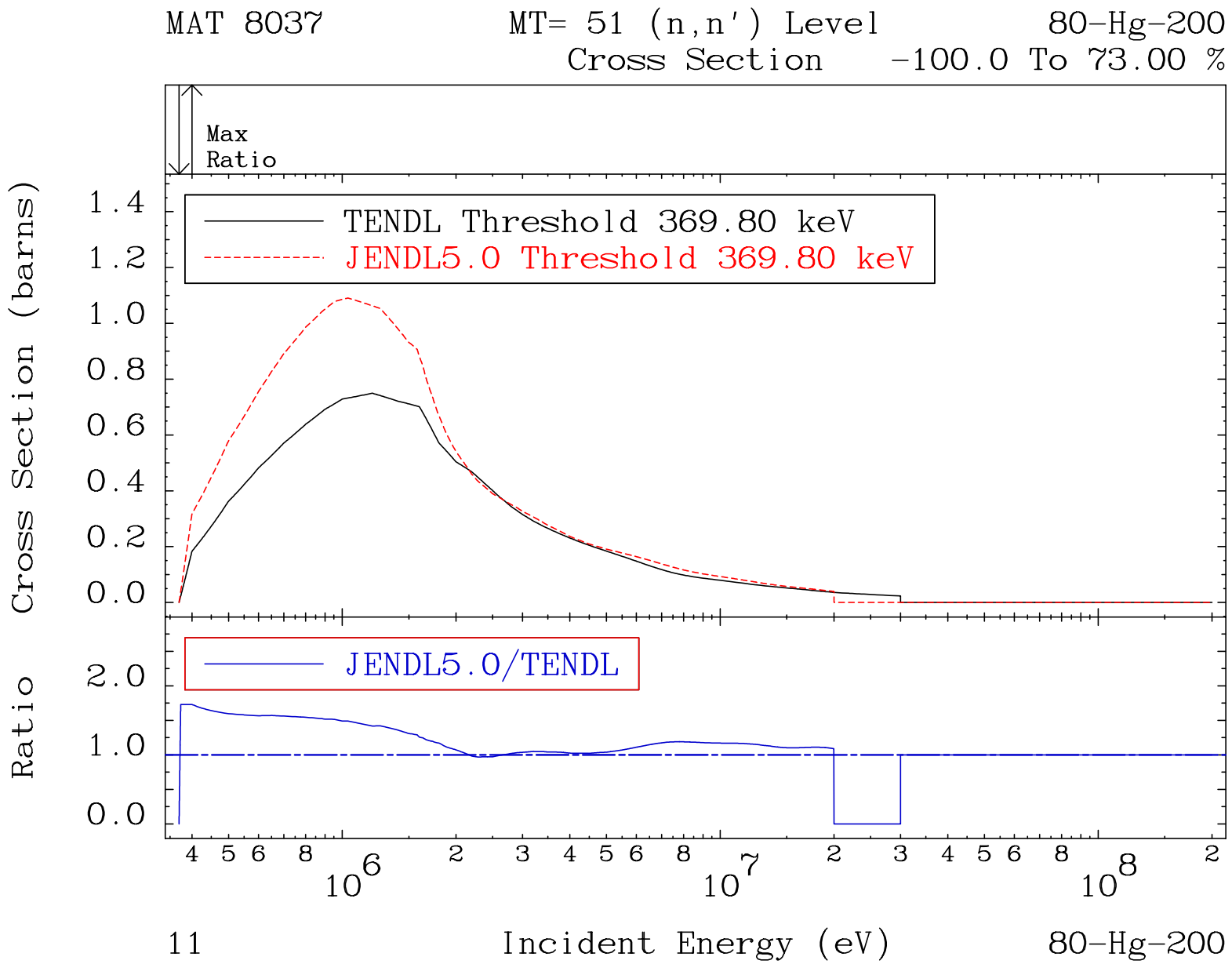

MAT 8037
(n,3n)
Cross Section
80-Hg-200
-100.0 To 70.19 %
Min
Ratio
TENDL Threshold 14.766 MeV
JENDL5.0 Threshold 14.766 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
80-Hg-200

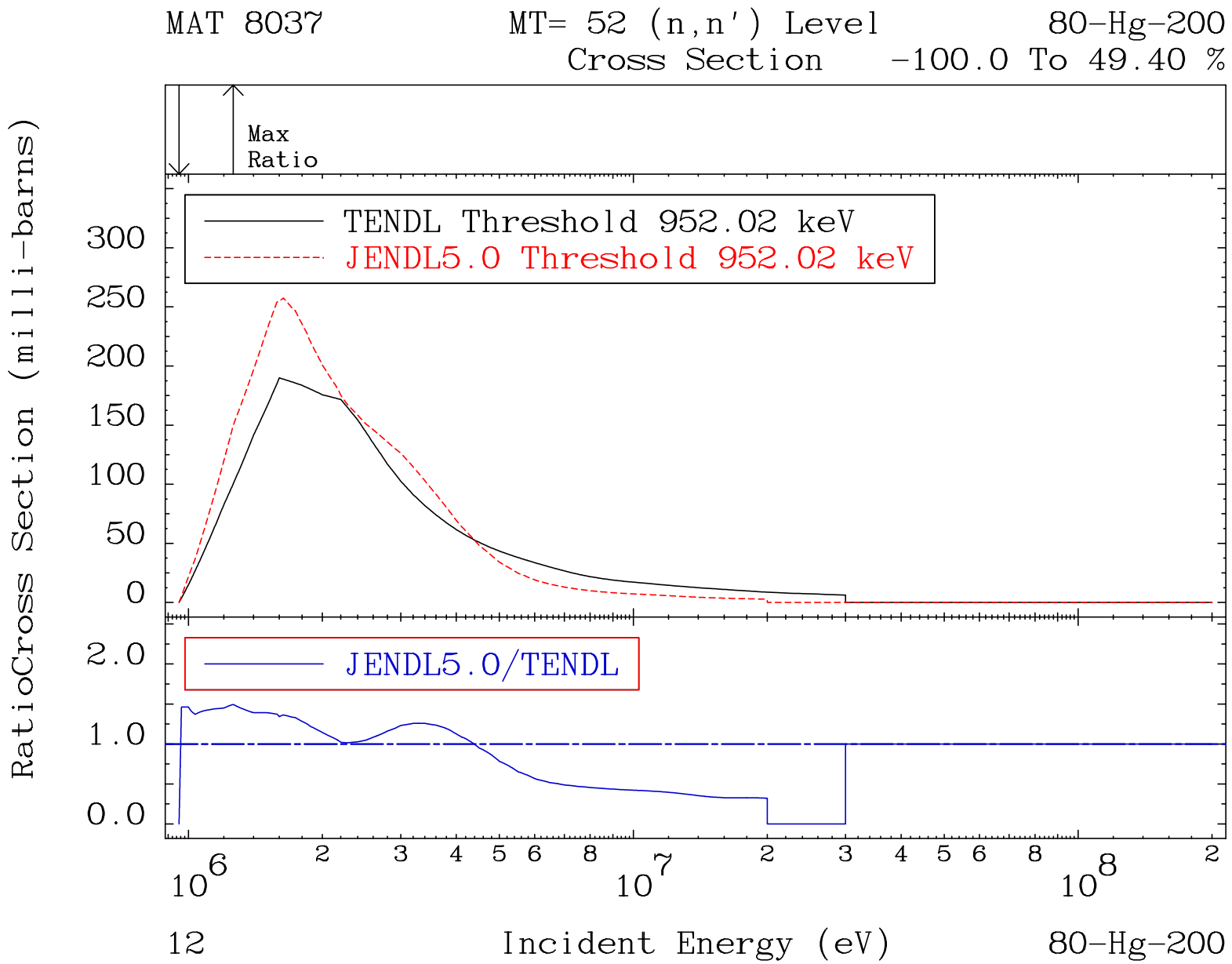

MAT 8037
(n,n') α
Cross Section
80-Hg-200
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.005 keV
JENDL5.0 Threshold 2.0848 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80-Hg-200

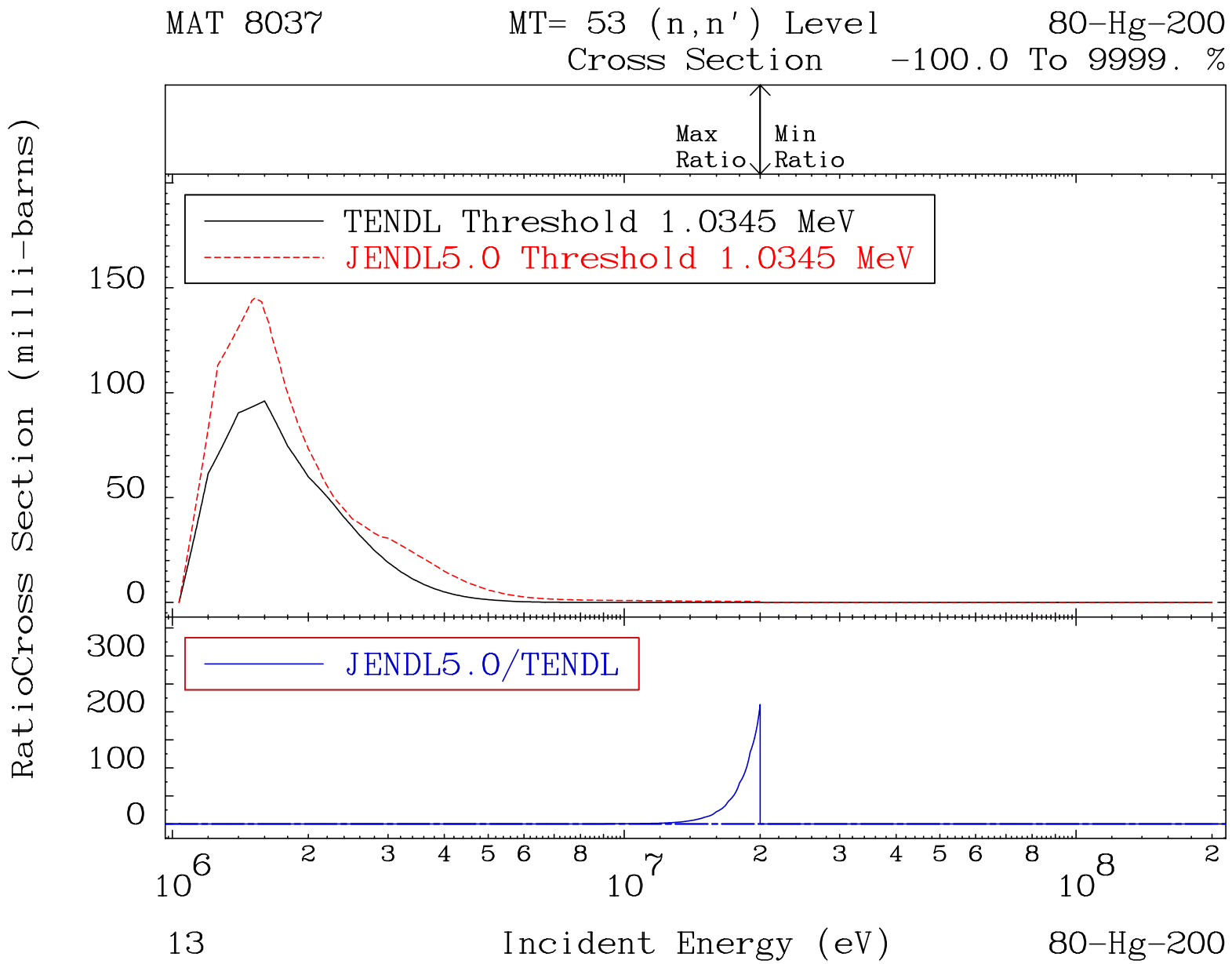

MAT 8037
(n,n') p
Cross Section
80-Hg-200
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.7373 MeV
JENDL5.0 Threshold 7.7364 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
80-Hg-200

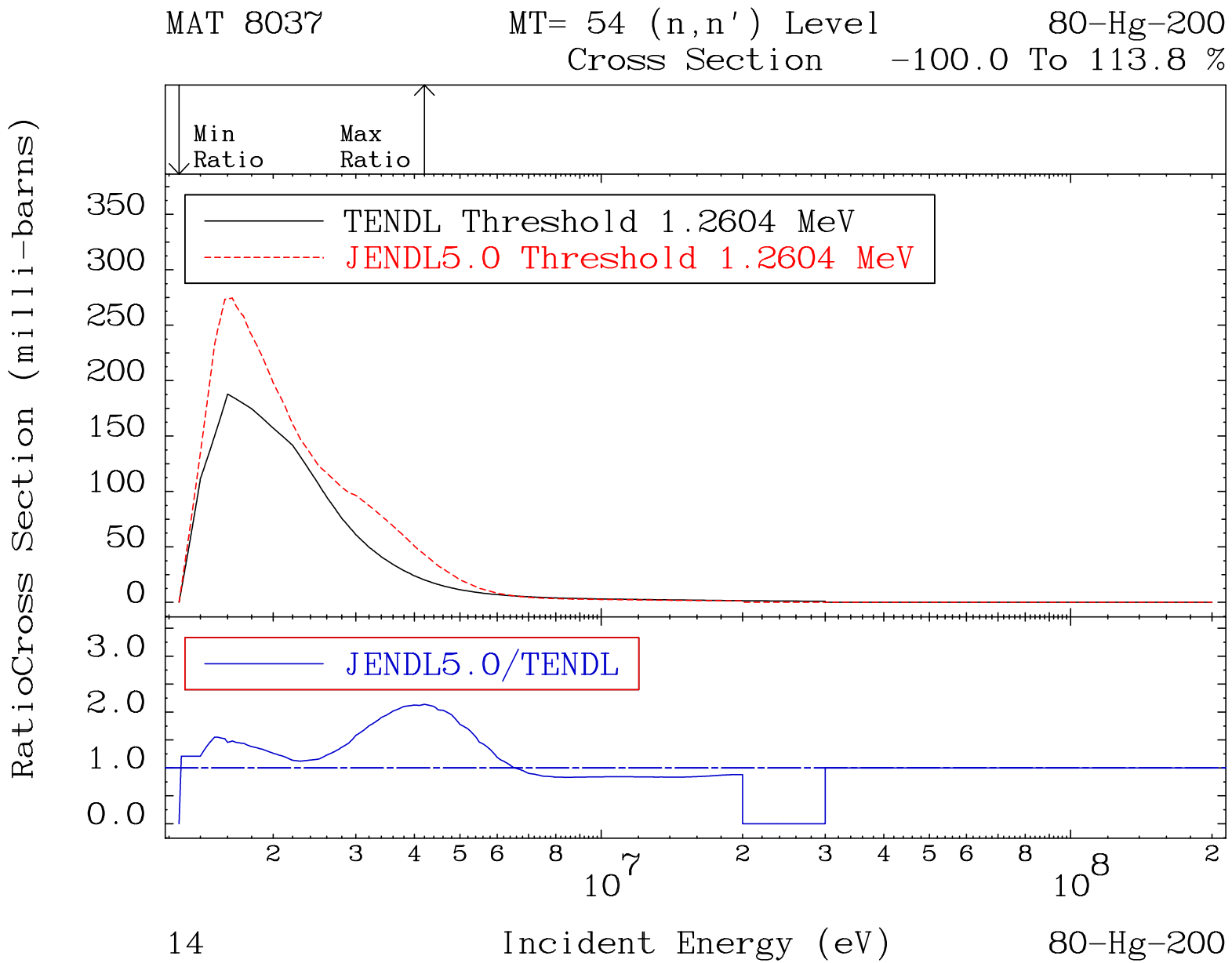

MAT 8037
(n,n') d
Cross Section
80-Hg-200
-100.0 To 99.93 %
Max Ratio
Min Ratio
TENDL Threshold 13.124 MeV
JENDL5.0 Threshold 13.124 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
9
Incident Energy (eV)
80-Hg-200

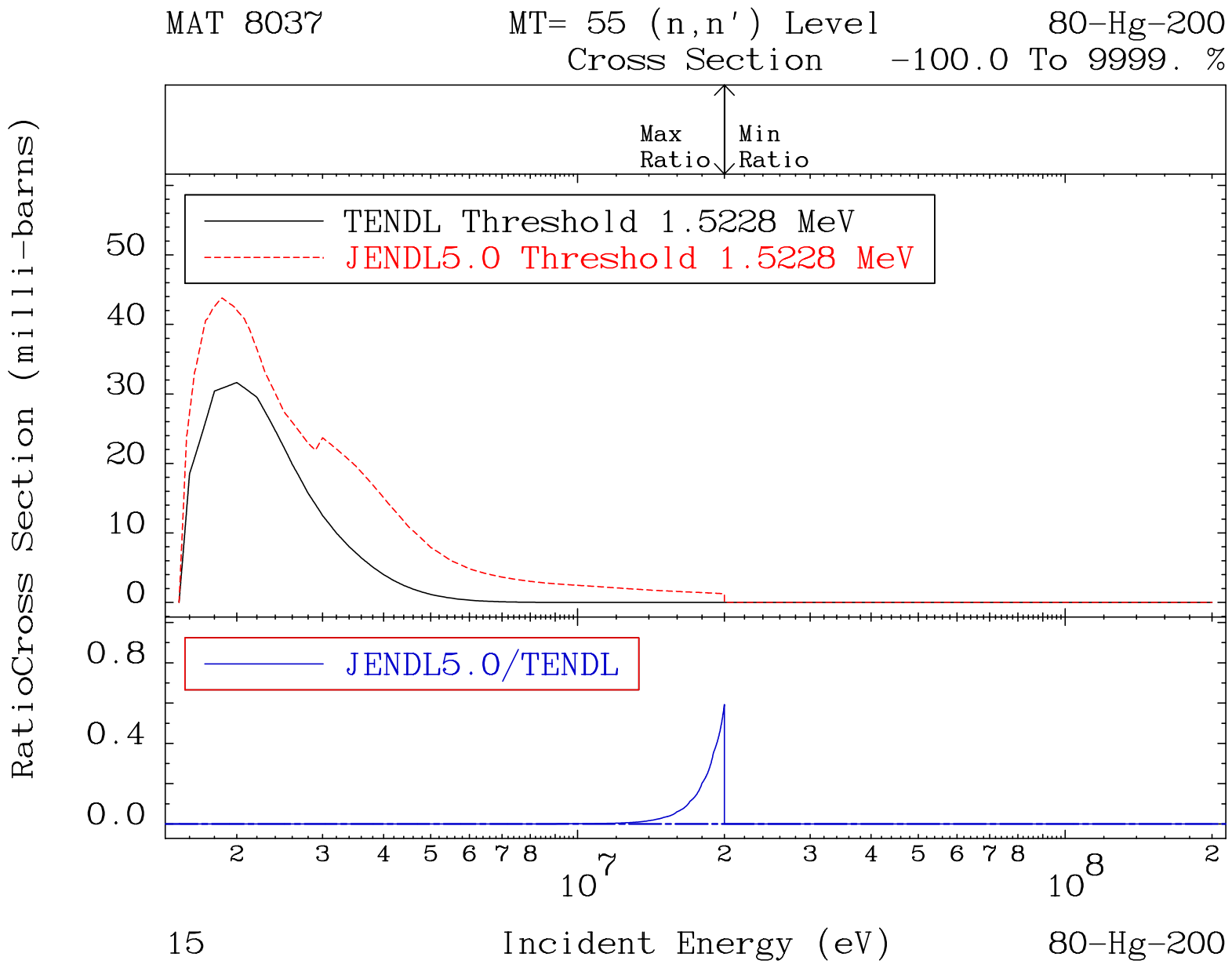

MAT 8037
(n,2n) p
Cross Section
80-Hg-200
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.360 MeV
JENDL5.0 Threshold 15.360 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
80-Hg-200

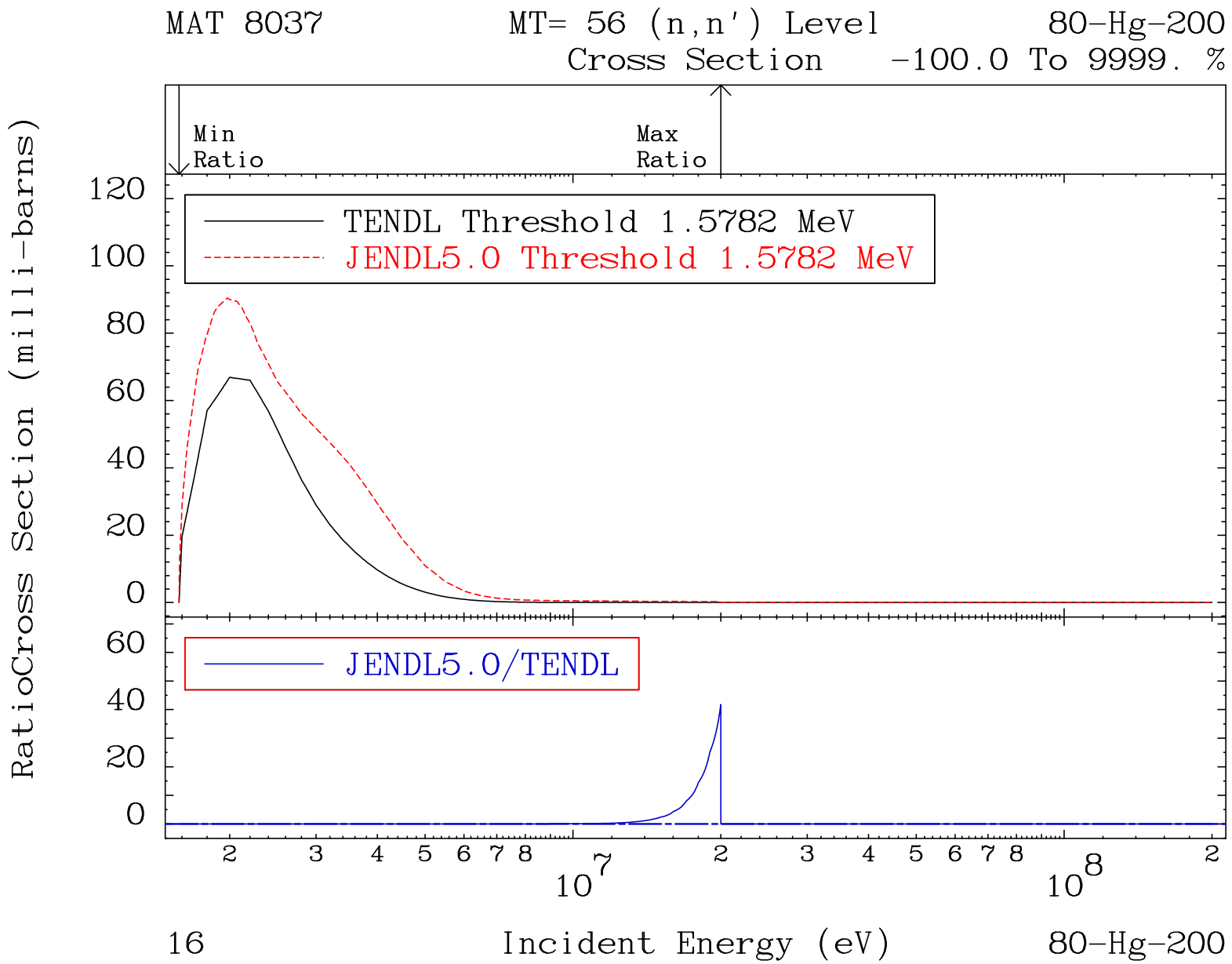

MAT 8037
MT= 51 (n,n') Level
Cross Section
80-Hg-200
-100.0 To 73.00 %
Max
Ratio
TENDL Threshold 369.80 keV
JENDL5.0 Threshold 369.80 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
11
80-Hg-200

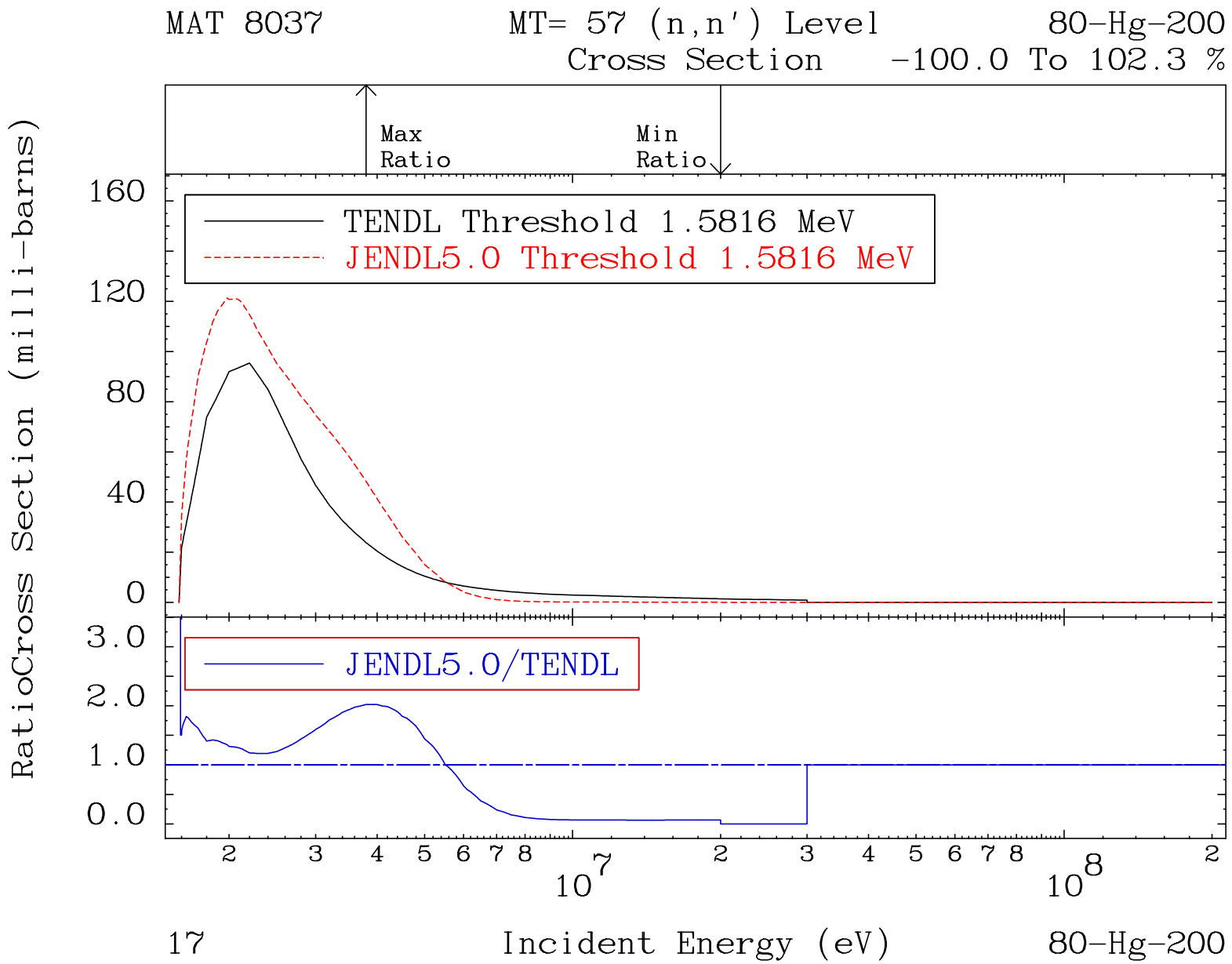

MAT 8037
MT= 52 (n,n') Level
Cross Section
80-Hg-200
-100.0 To 49.40 %
Max
Ratio
TENDL Threshold 952.02 keV
JENDL5.0 Threshold 952.02 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
12
80-Hg-200

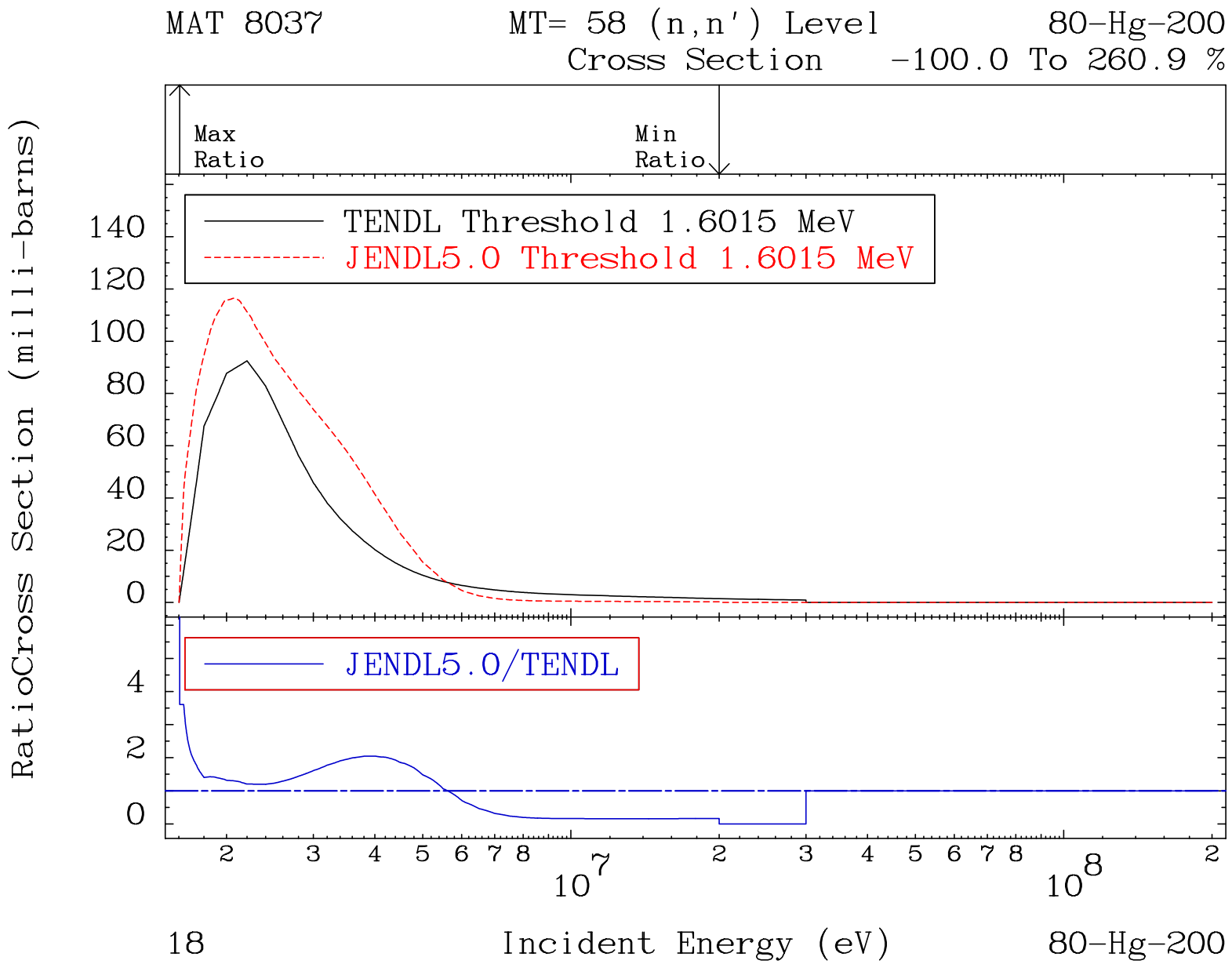

MAT 8037
MT= 53 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0345 MeV
JENDL5.0 Threshold 1.0345 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
300
200
100
0
2 3 4 5 6 8
10^6
10^7
10^8
13
Incident Energy (eV)
80-Hg-200

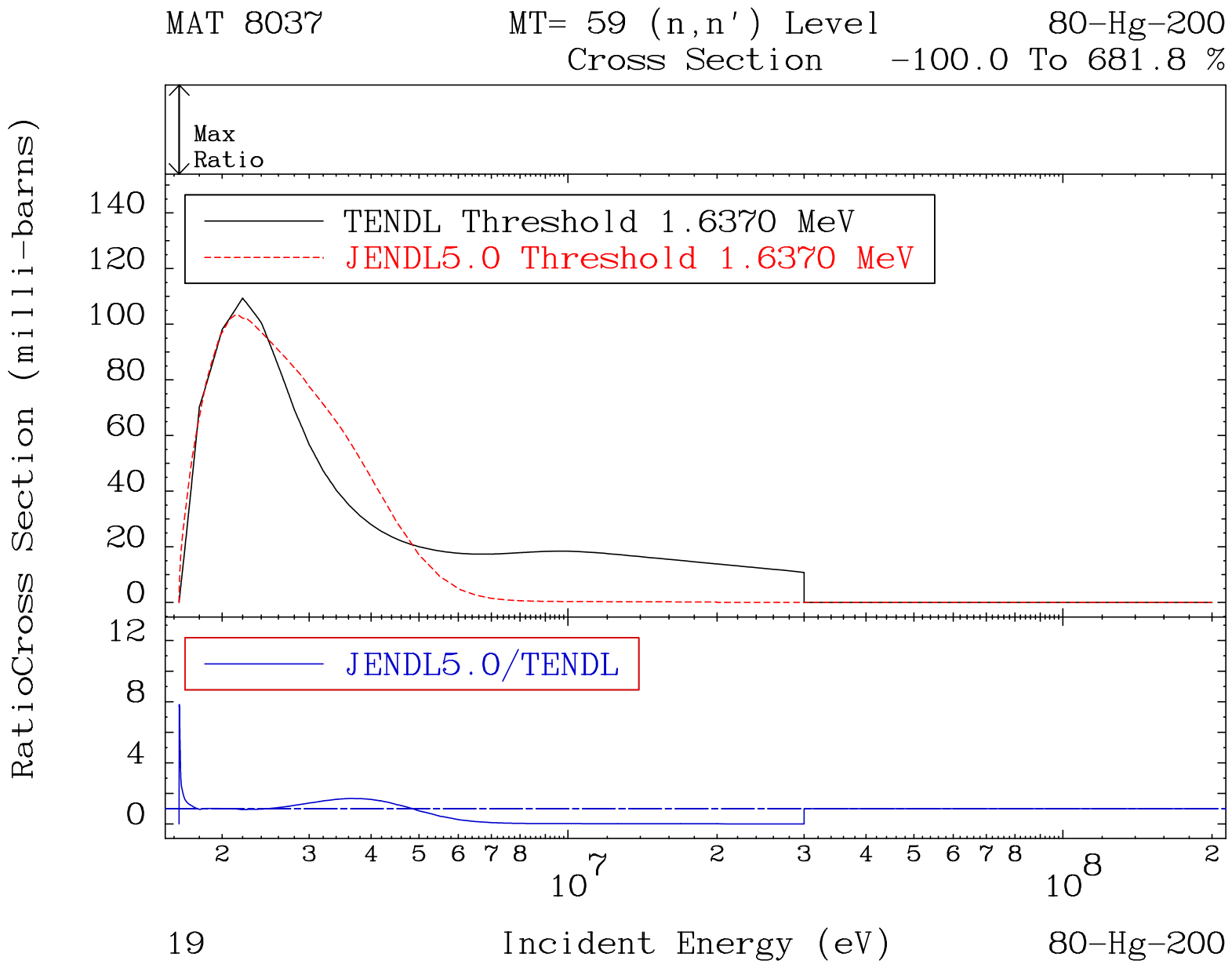

MAT 8037
MT= 54 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 113.8 %
Min Ratio
Max Ratio
TENDL Threshold 1.2604 MeV
JENDL5.0 Threshold 1.2604 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
3.0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
14
Incident Energy (eV)
80-Hg-200

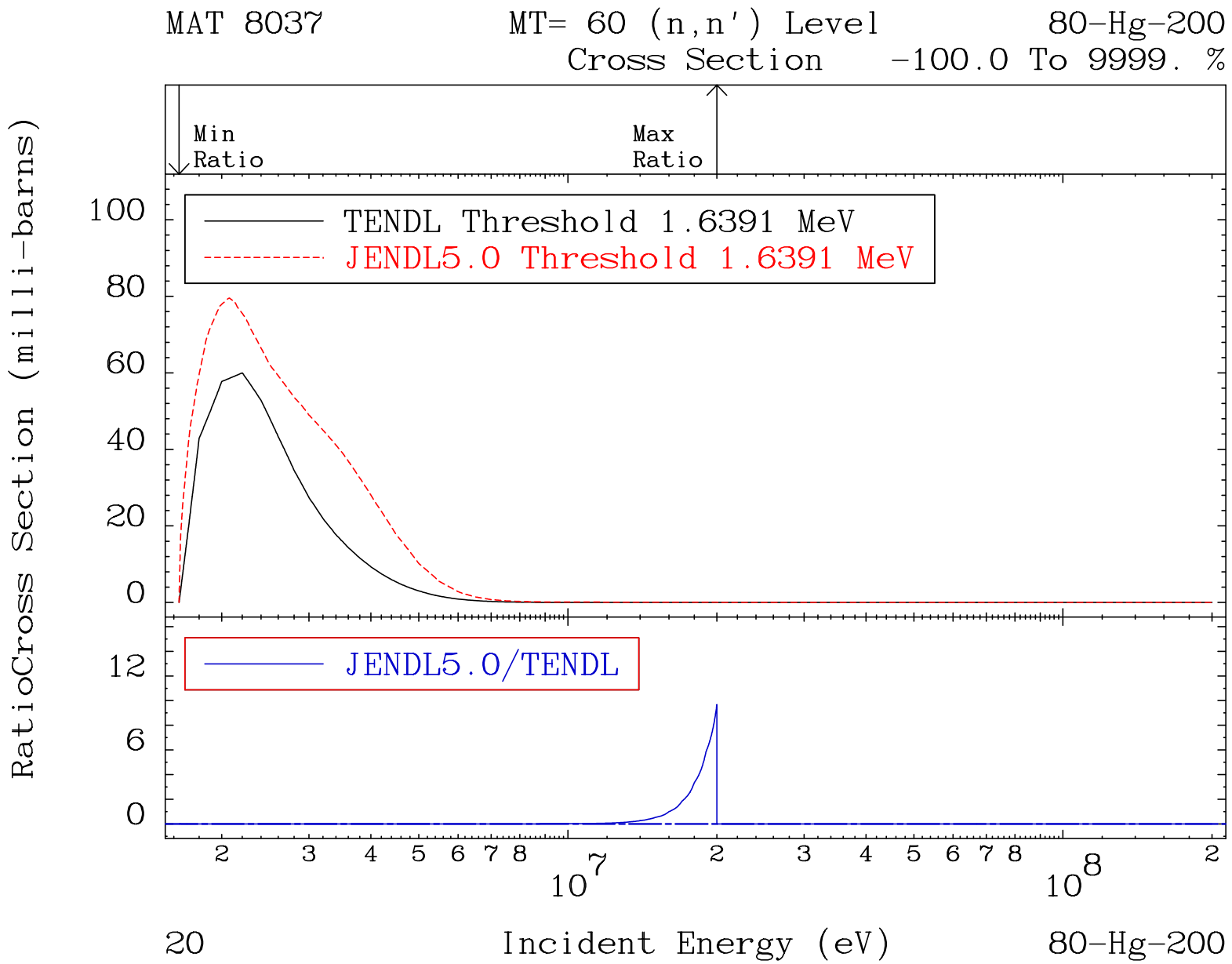

MAT 8037
MT= 55 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5228 MeV
JENDL5.0 Threshold 1.5228 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
80-Hg-200

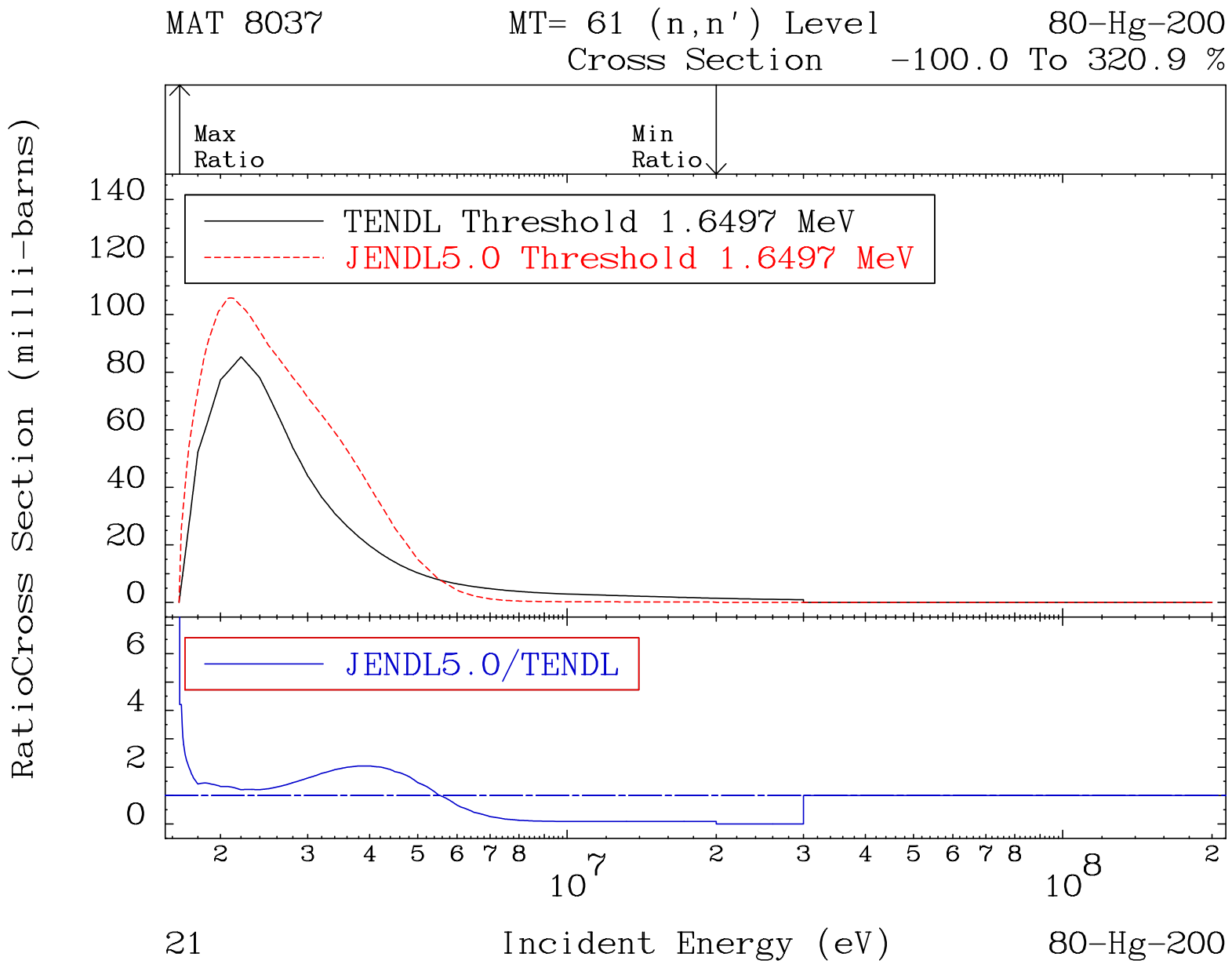

MAT 8037
MT= 56 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5782 MeV
JENDL5.0 Threshold 1.5782 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
60
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
80-Hg-200

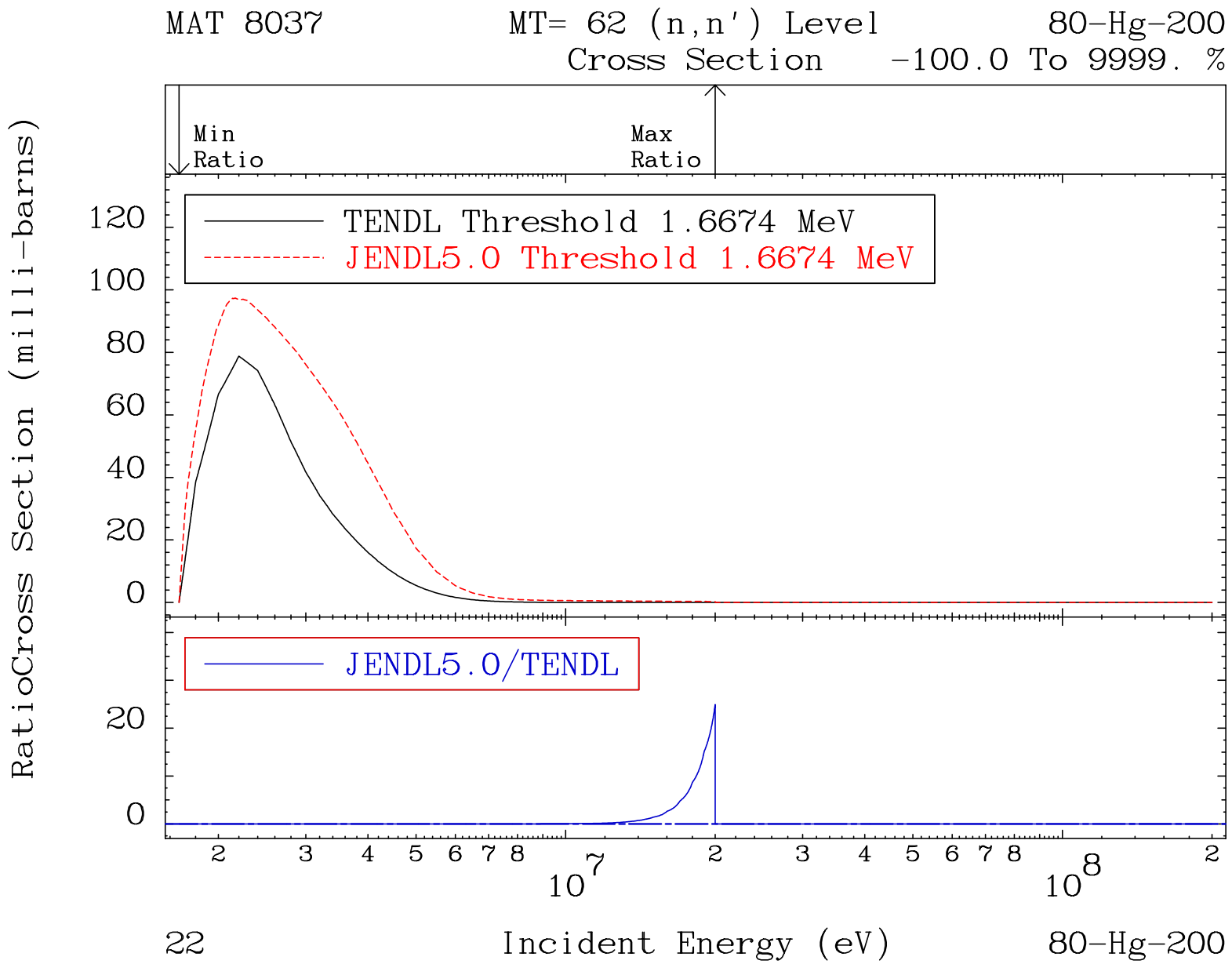

MAT 8037
MT= 57 (n,n') Level
80-Hg-200
Cross Section -100.0 To 102.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.5816 MeV
JENDL5.0 Threshold 1.5816 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
80-Hg-200

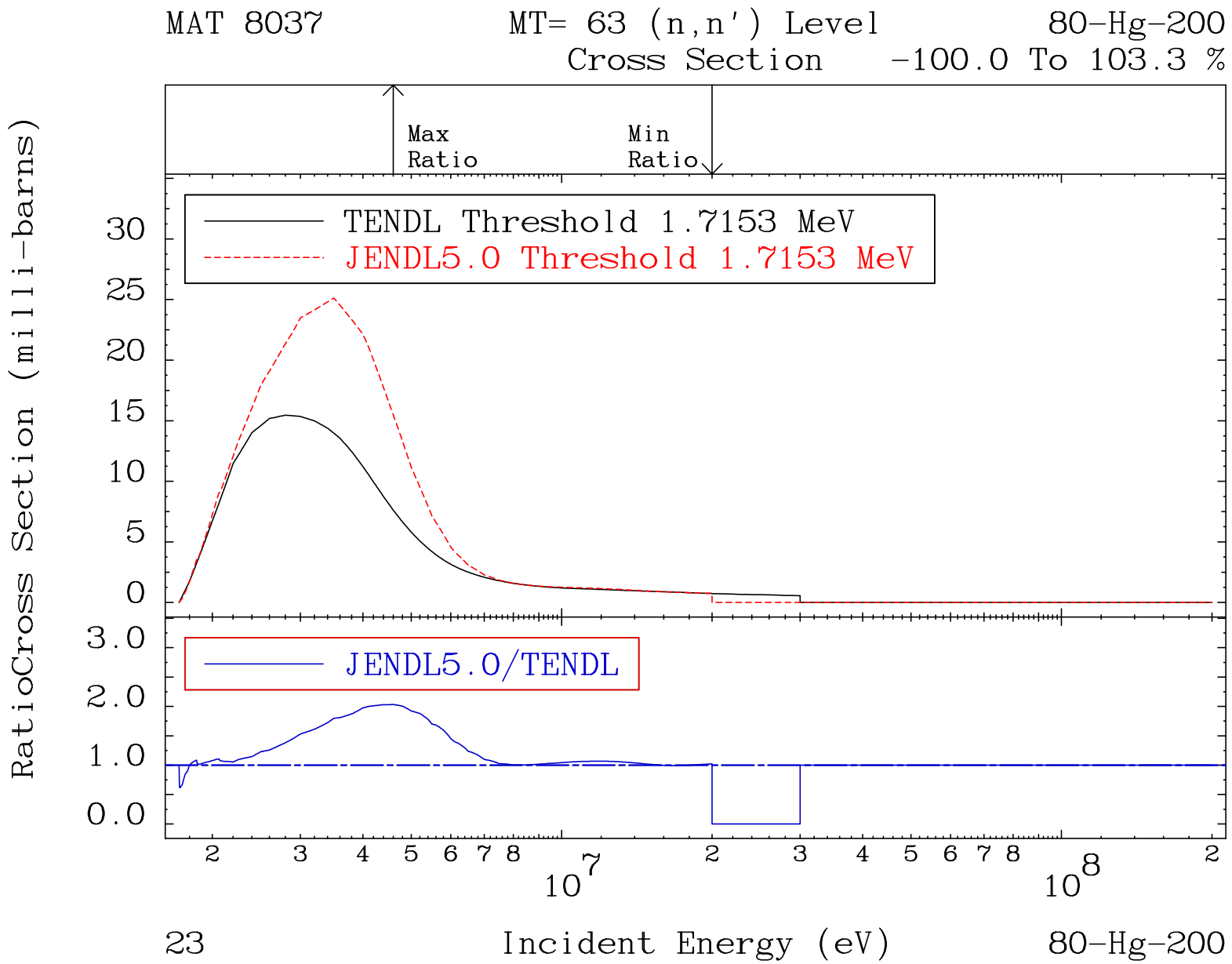

MAT 8037
MT= 58 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 260.9 %
Max Ratio
Min Ratio
TENDL Threshold 1.6015 MeV
JENDL5.0 Threshold 1.6015 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
80-Hg-200

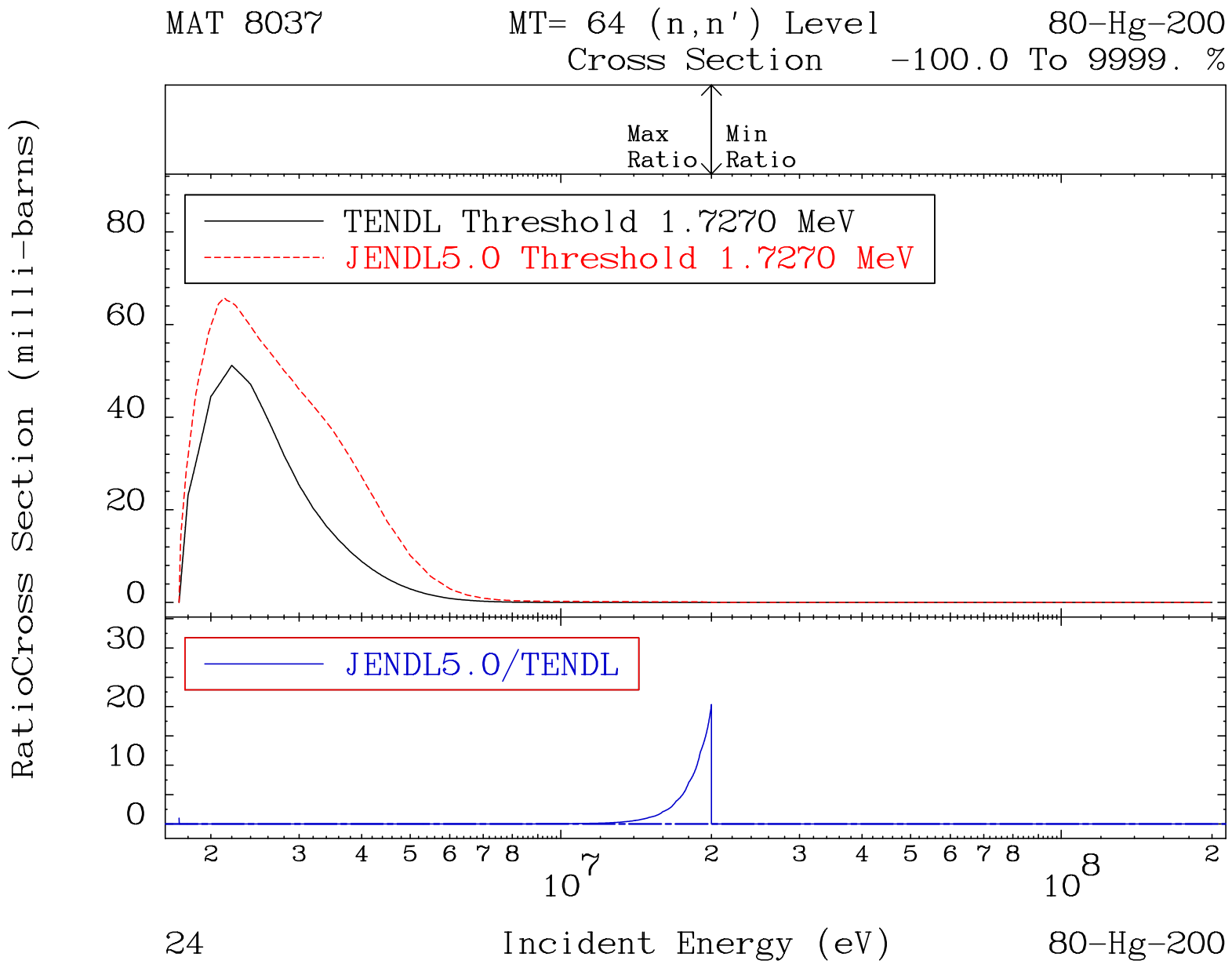

MAT 8037
MT= 59 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 681.8 %
Max
Ratio
TENDL Threshold 1.6370 MeV
JENDL5.0 Threshold 1.6370 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
80-Hg-200

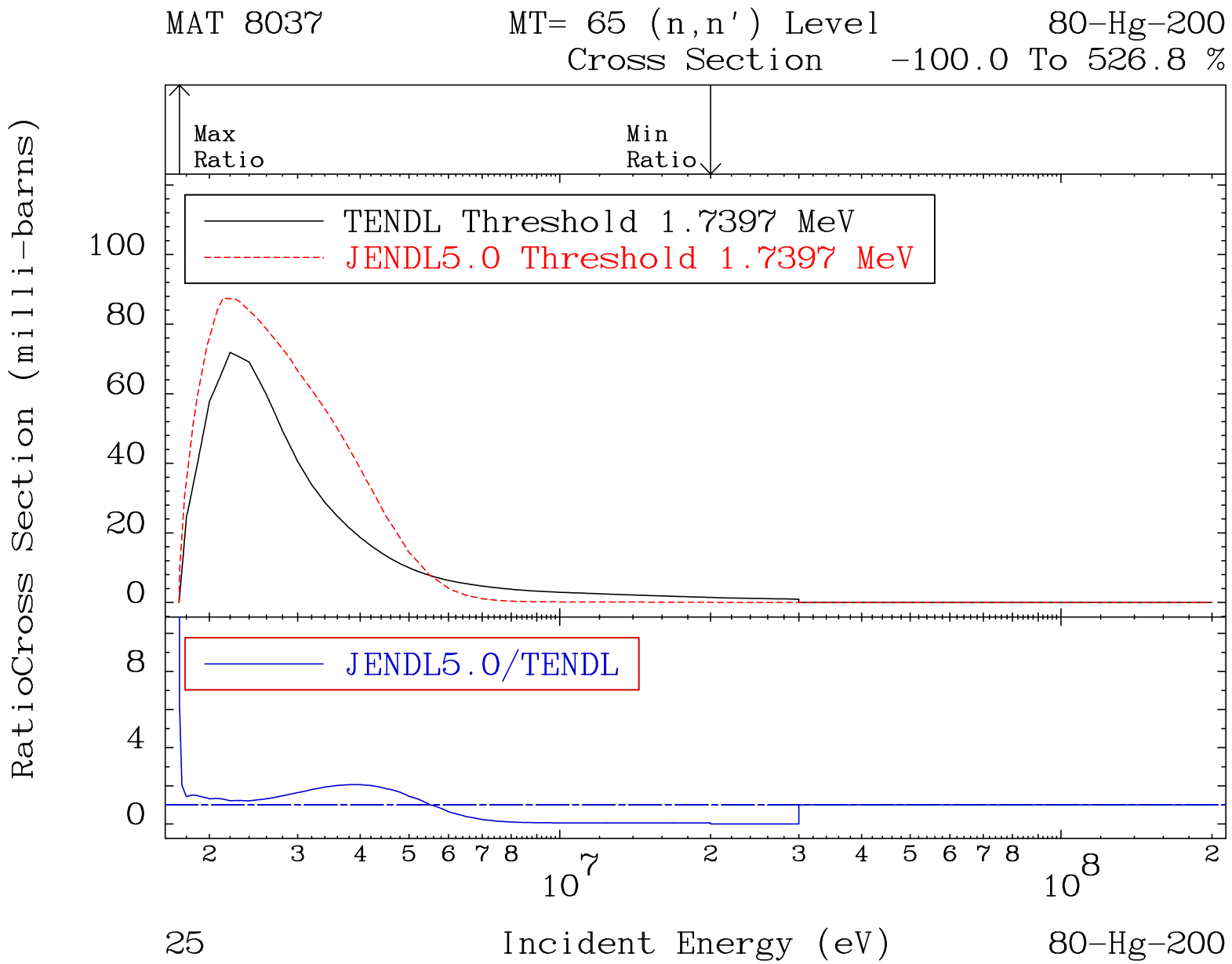

MAT 8037
MT= 60 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6391 MeV
JENDL5.0 Threshold 1.6391 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
12
6
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
80-Hg-200

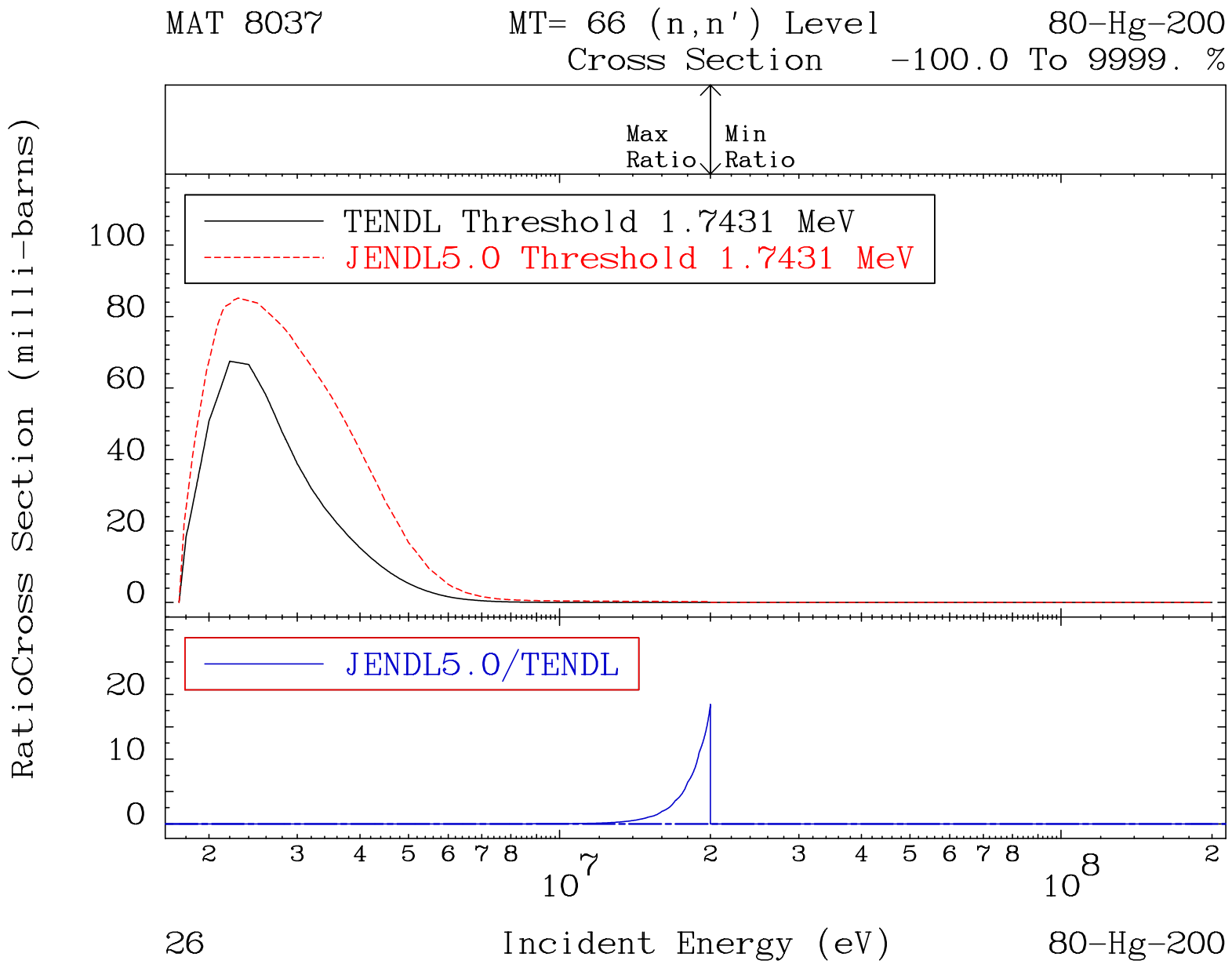

MAT 8037
MT= 61 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 320.9 %
Max Ratio
Min Ratio
TENDL Threshold 1.6497 MeV
JENDL5.0 Threshold 1.6497 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
6
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
80-Hg-200

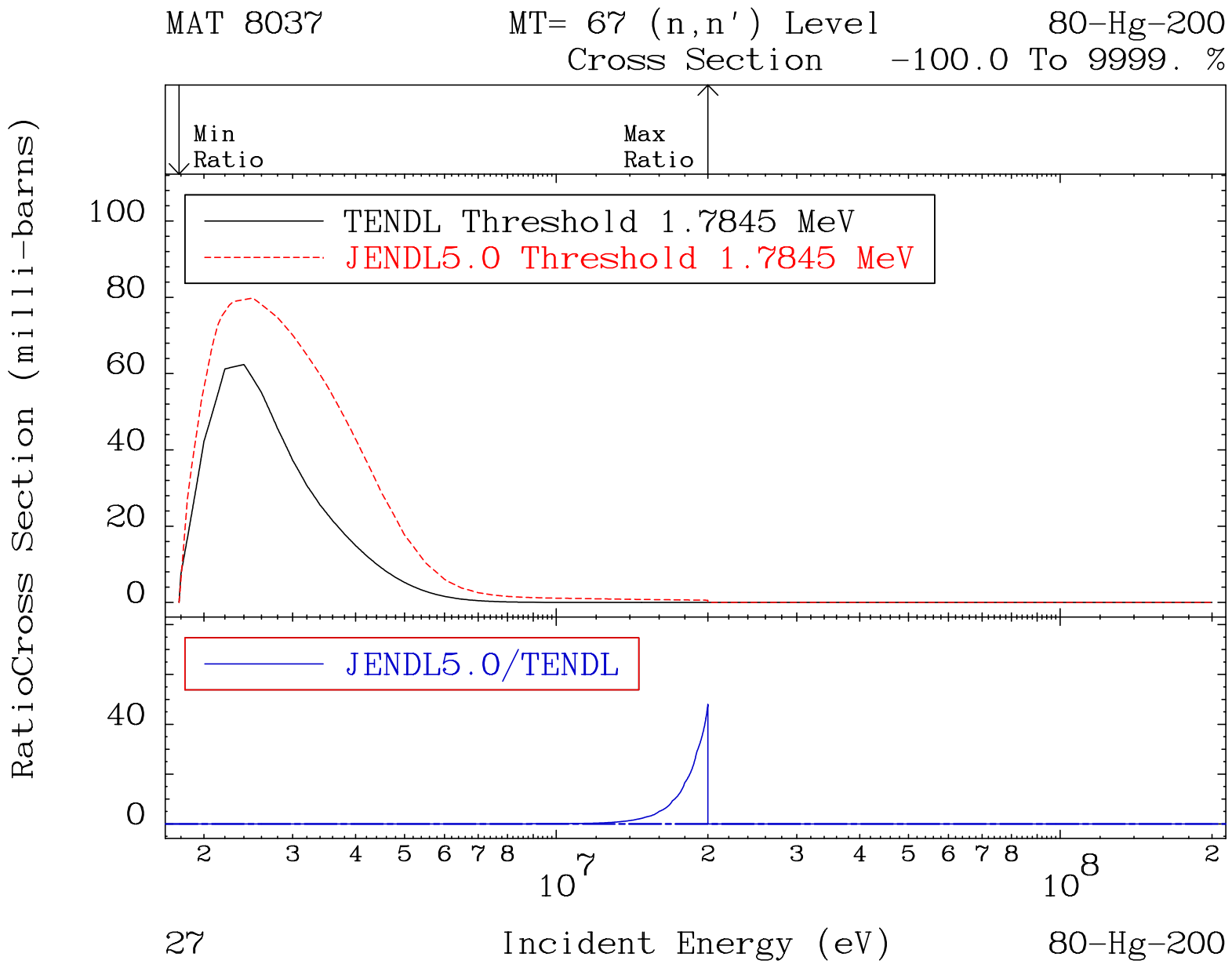

MAT 8037
MT= 62 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6674 MeV
JENDL5.0 Threshold 1.6674 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
80-Hg-200

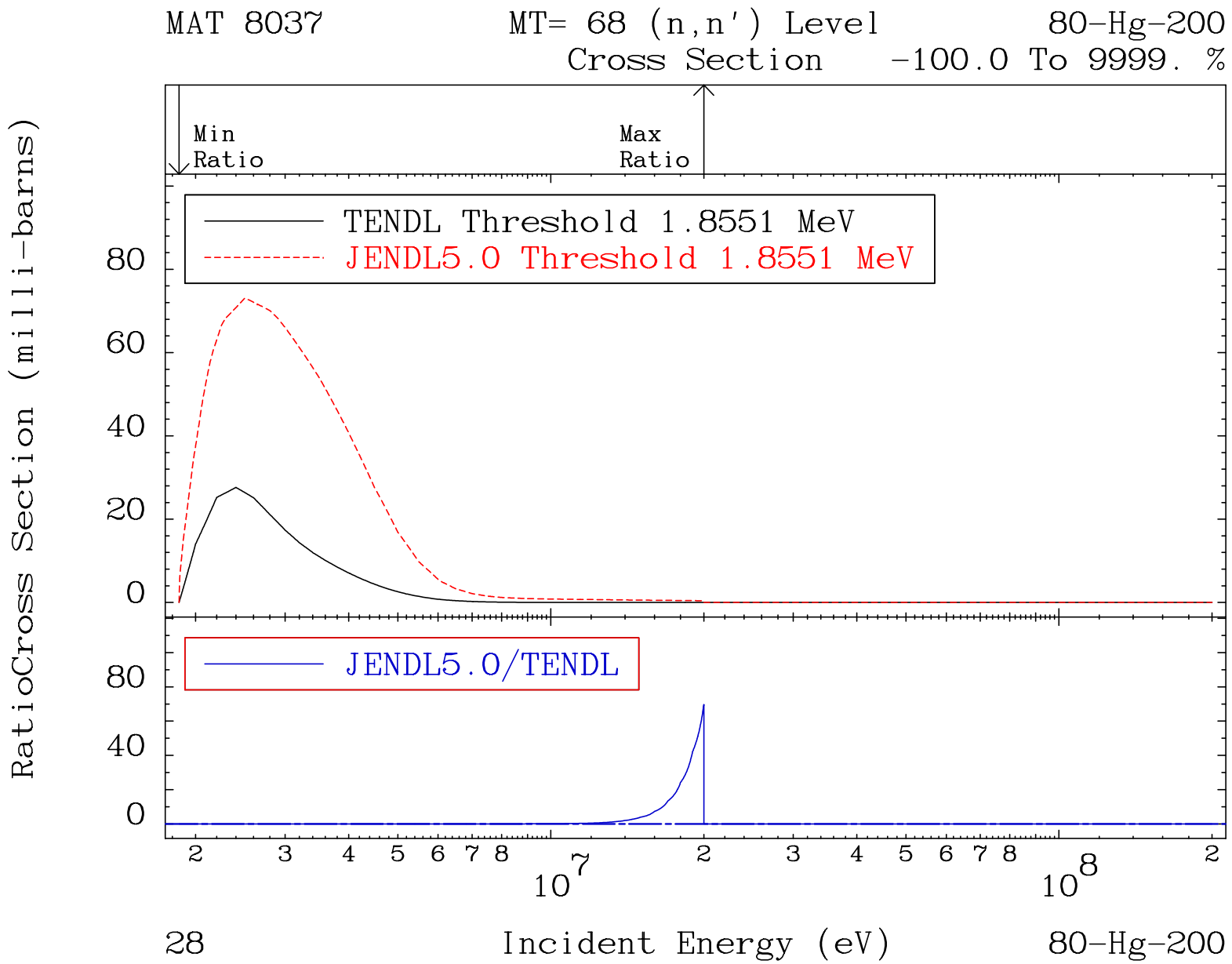

MAT 8037
MT= 63 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 103.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.7153 MeV
JENDL5.0 Threshold 1.7153 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
80-Hg-200

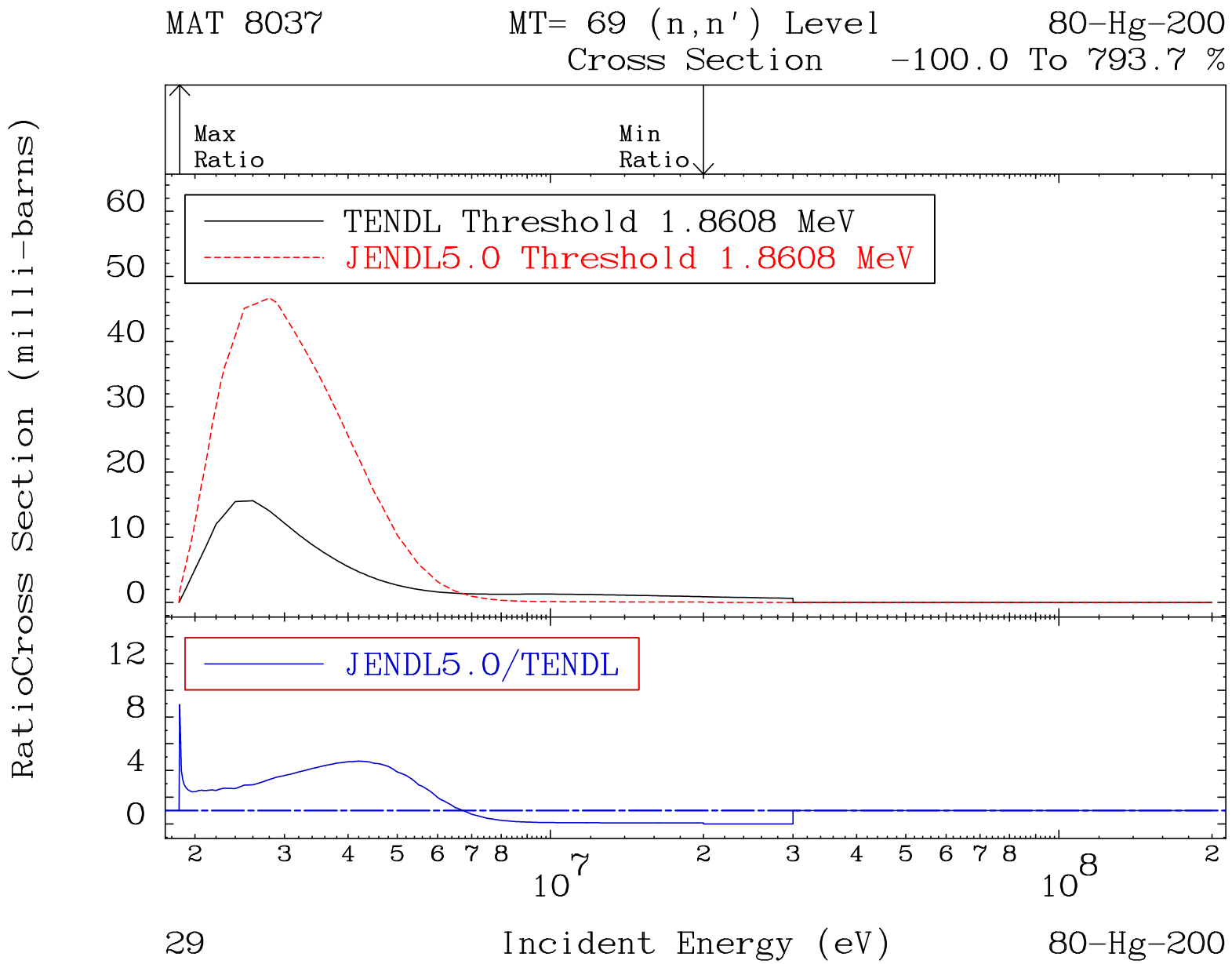

MAT 8037
MT= 64 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.7270 MeV
JENDL5.0 Threshold 1.7270 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
80-Hg-200

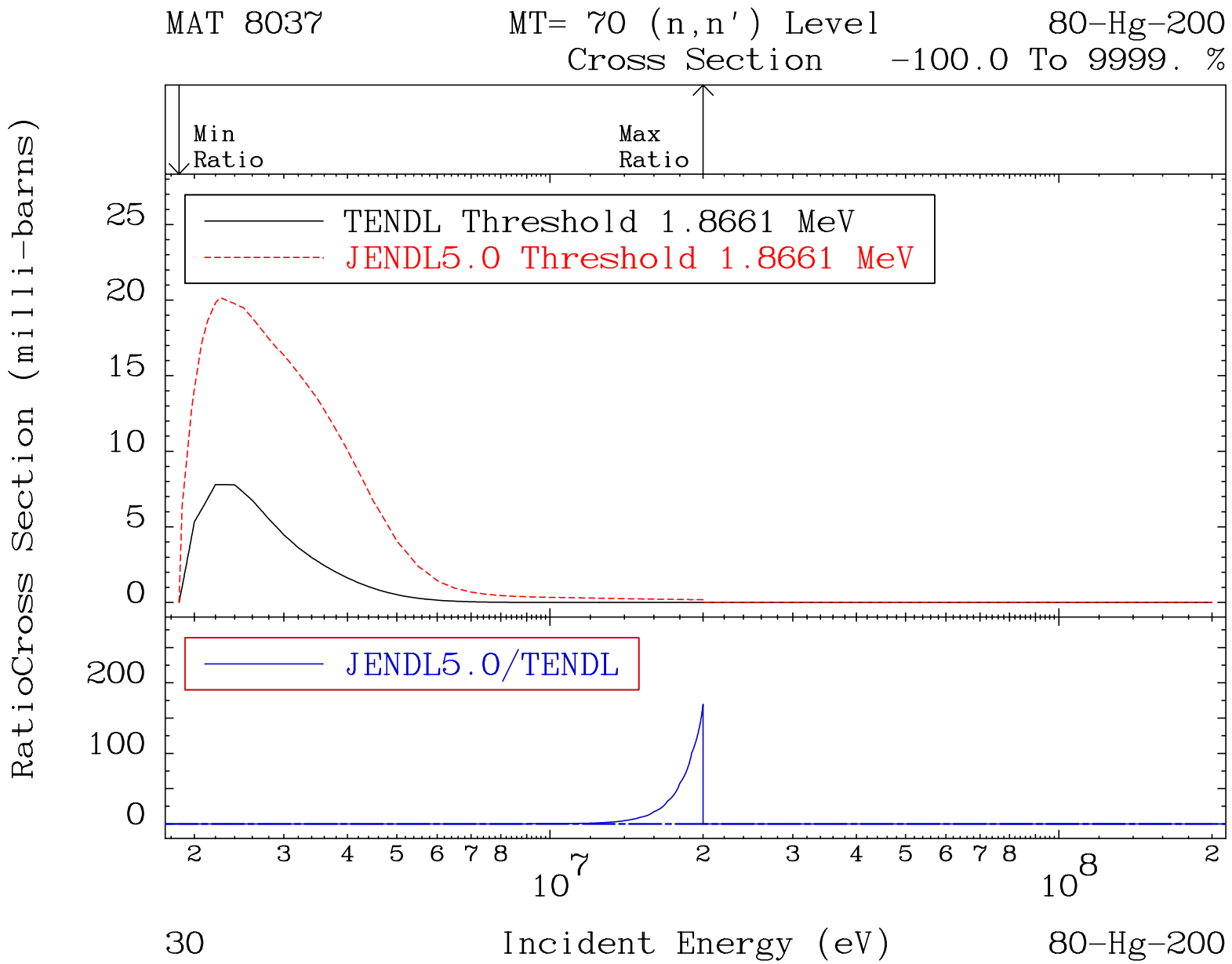

MAT 8037
MT= 65 (n,n') Level
80-Hg-200
Cross Section -100.0 To 526.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.7397 MeV
JENDL5.0 Threshold 1.7397 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
80-Hg-200

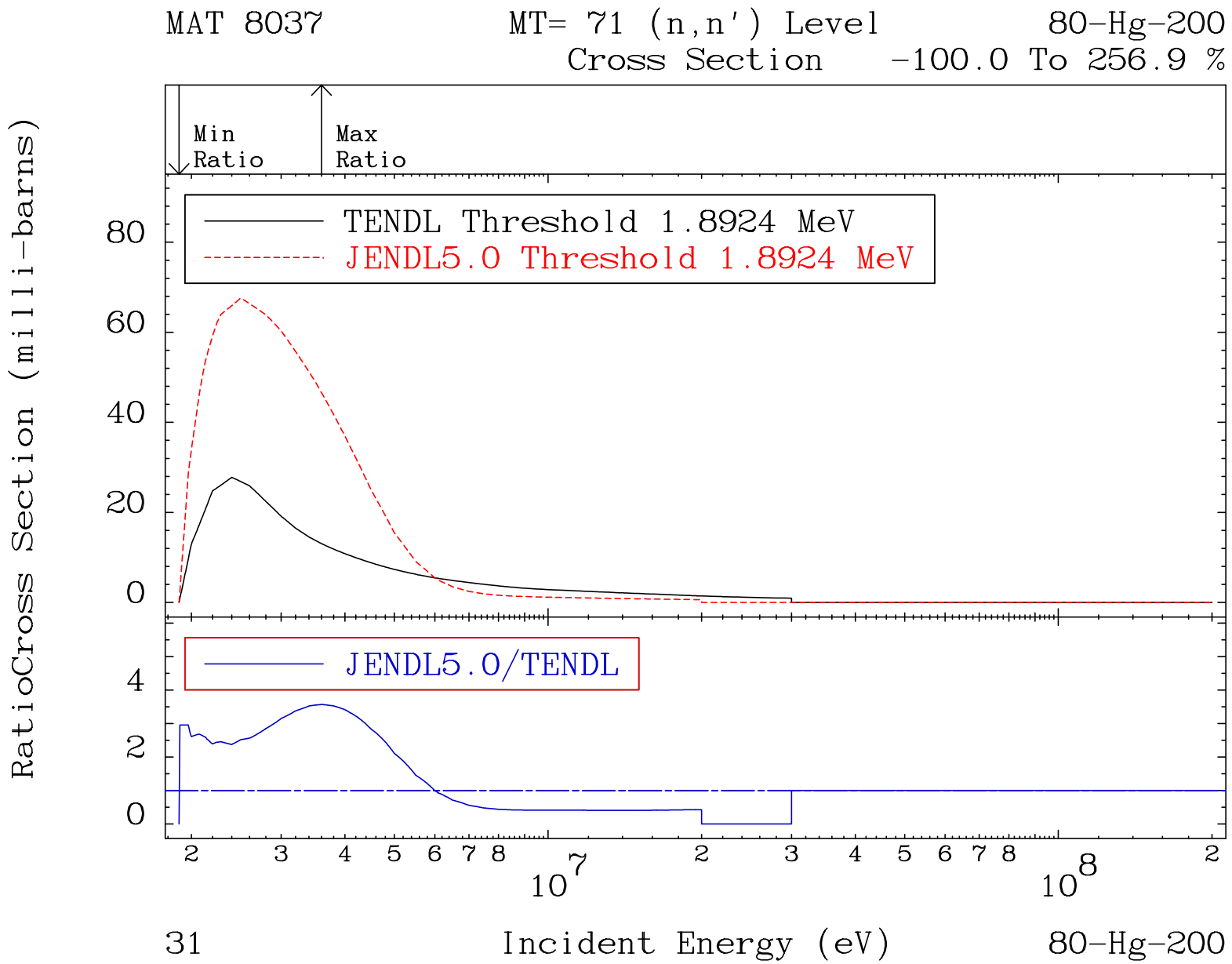

MAT 8037
MT= 66 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.7431 MeV
JENDL5.0 Threshold 1.7431 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
20
10
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
80-Hg-200

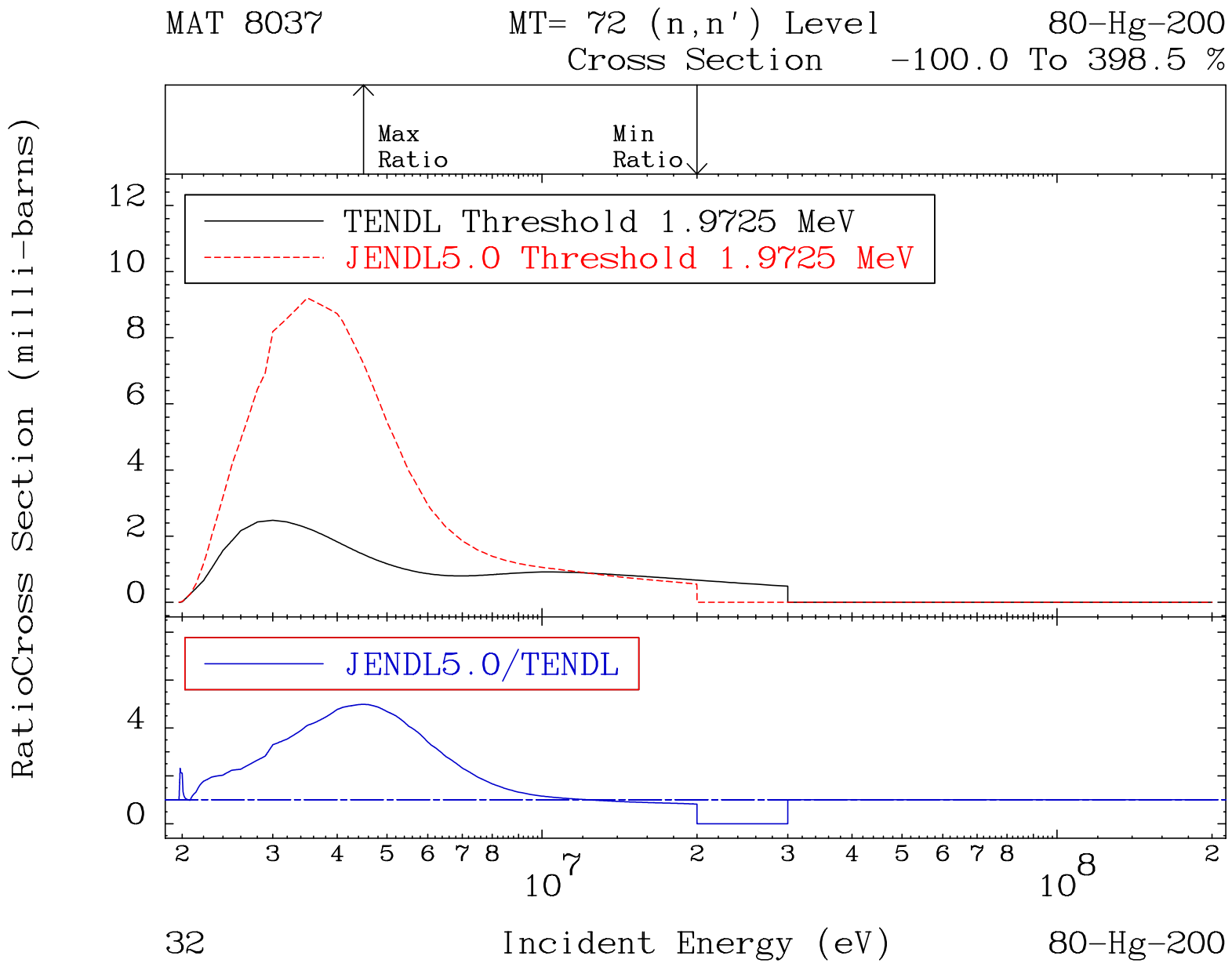

MAT 8037
MT= 67 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7845 MeV
JENDL5.0 Threshold 1.7845 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
80-Hg-200

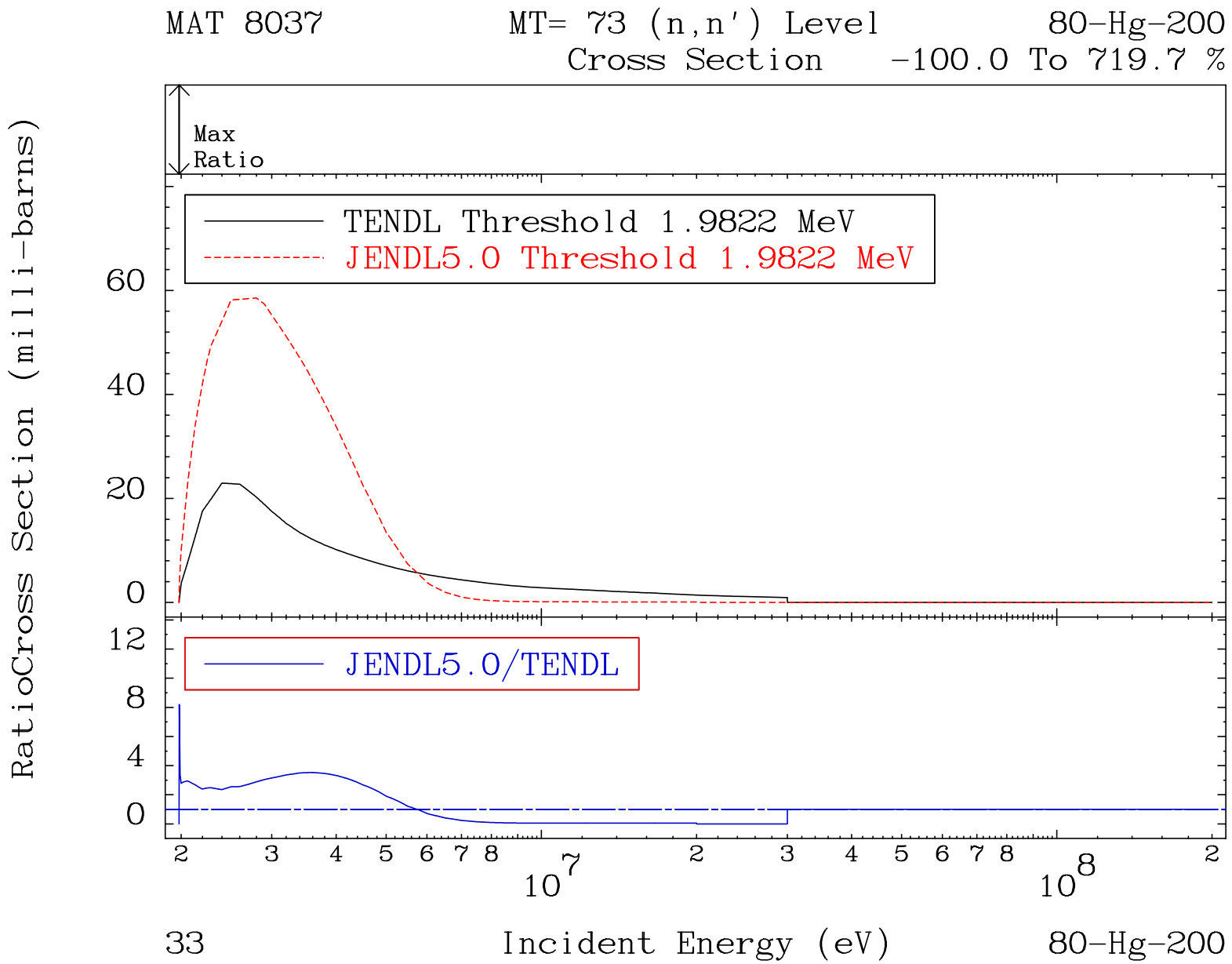

MAT 8037
MT= 68 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8551 MeV
JENDL5.0 Threshold 1.8551 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
80-Hg-200

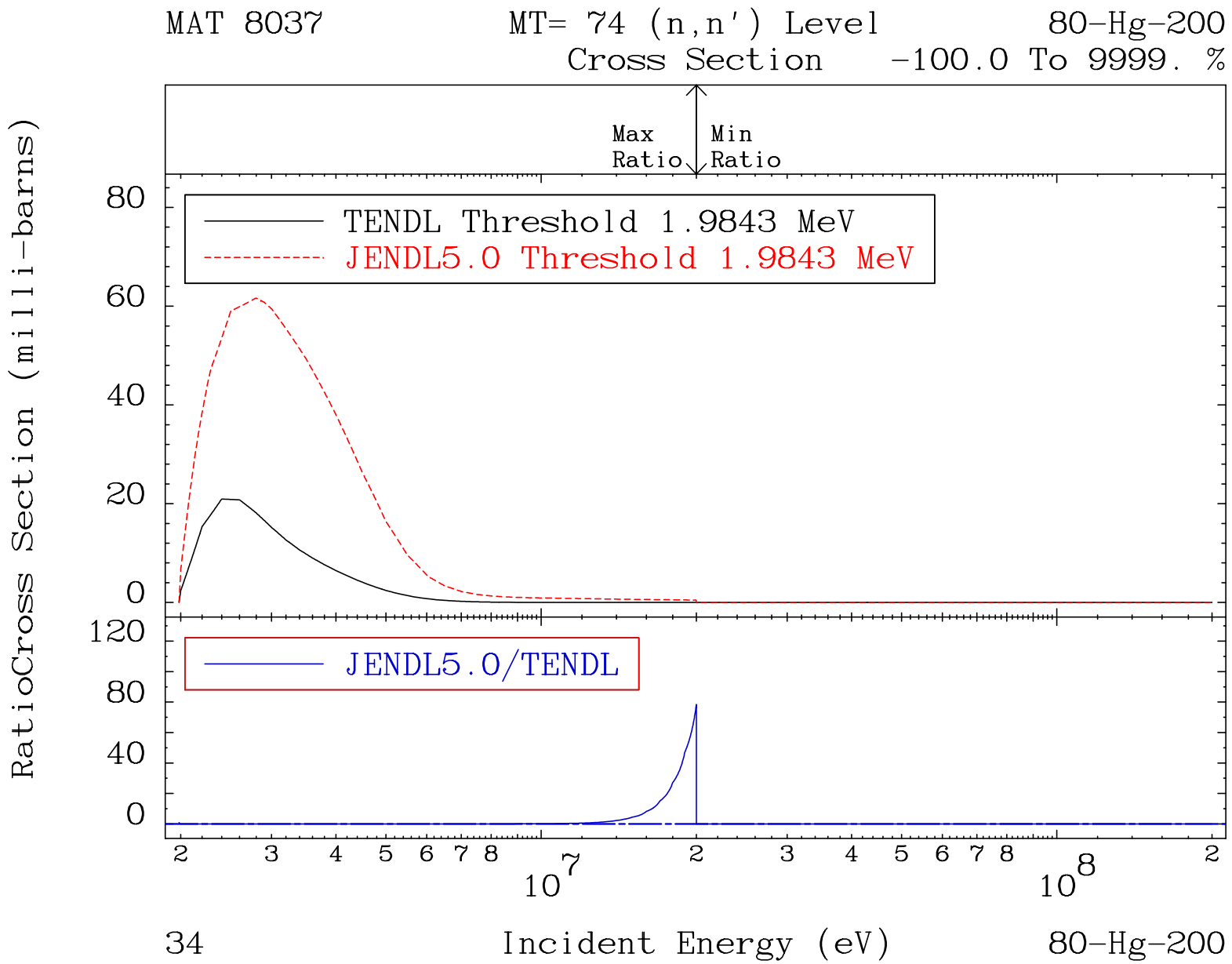

MAT 8037
MT= 69 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 793.7 %
Max Ratio
Min Ratio
TENDL Threshold 1.8608 MeV
JENDL5.0 Threshold 1.8608 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
12
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
80-Hg-200

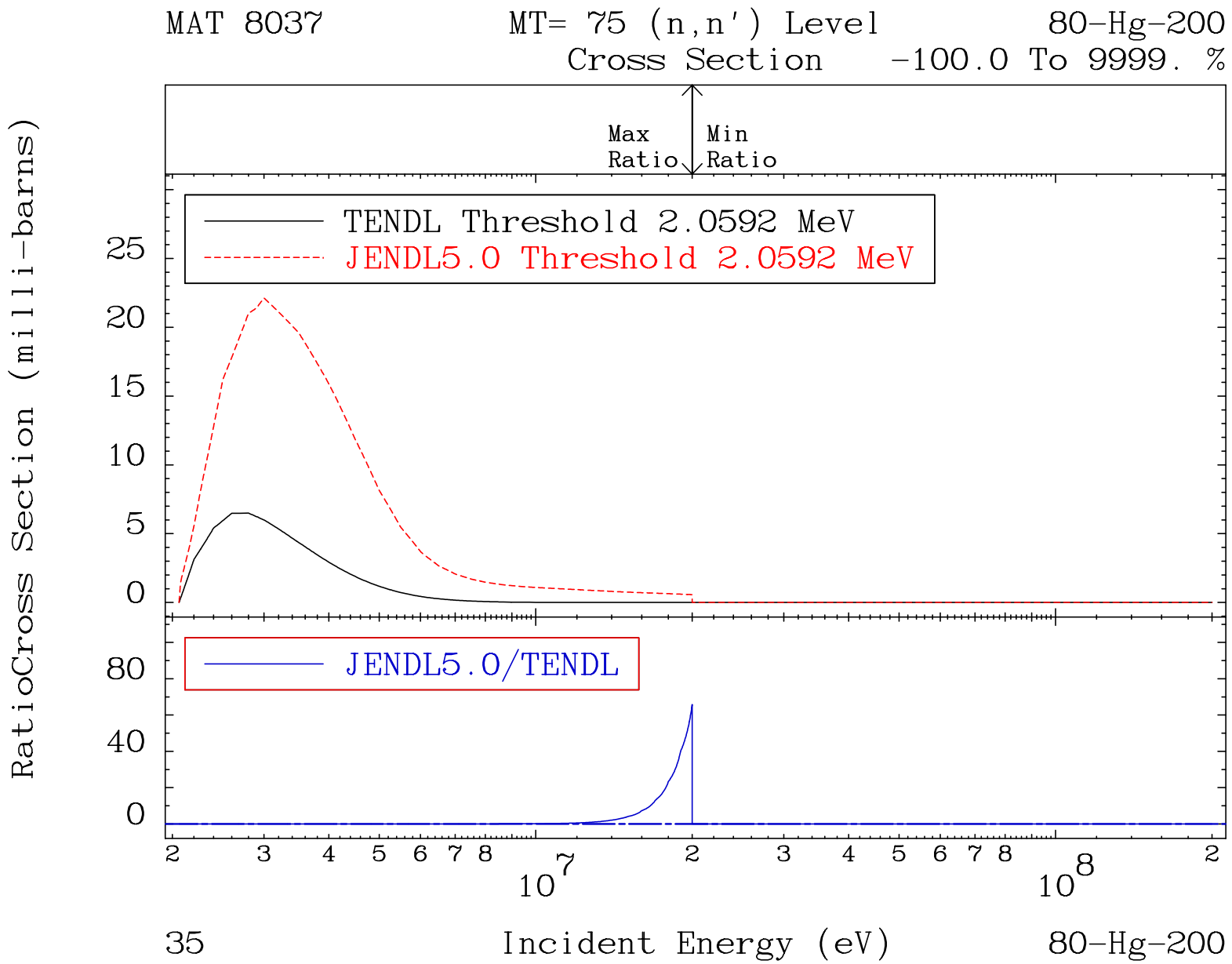

MAT 8037
MT= 70 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8661 MeV
JENDL5.0 Threshold 1.8661 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
80-Hg-200

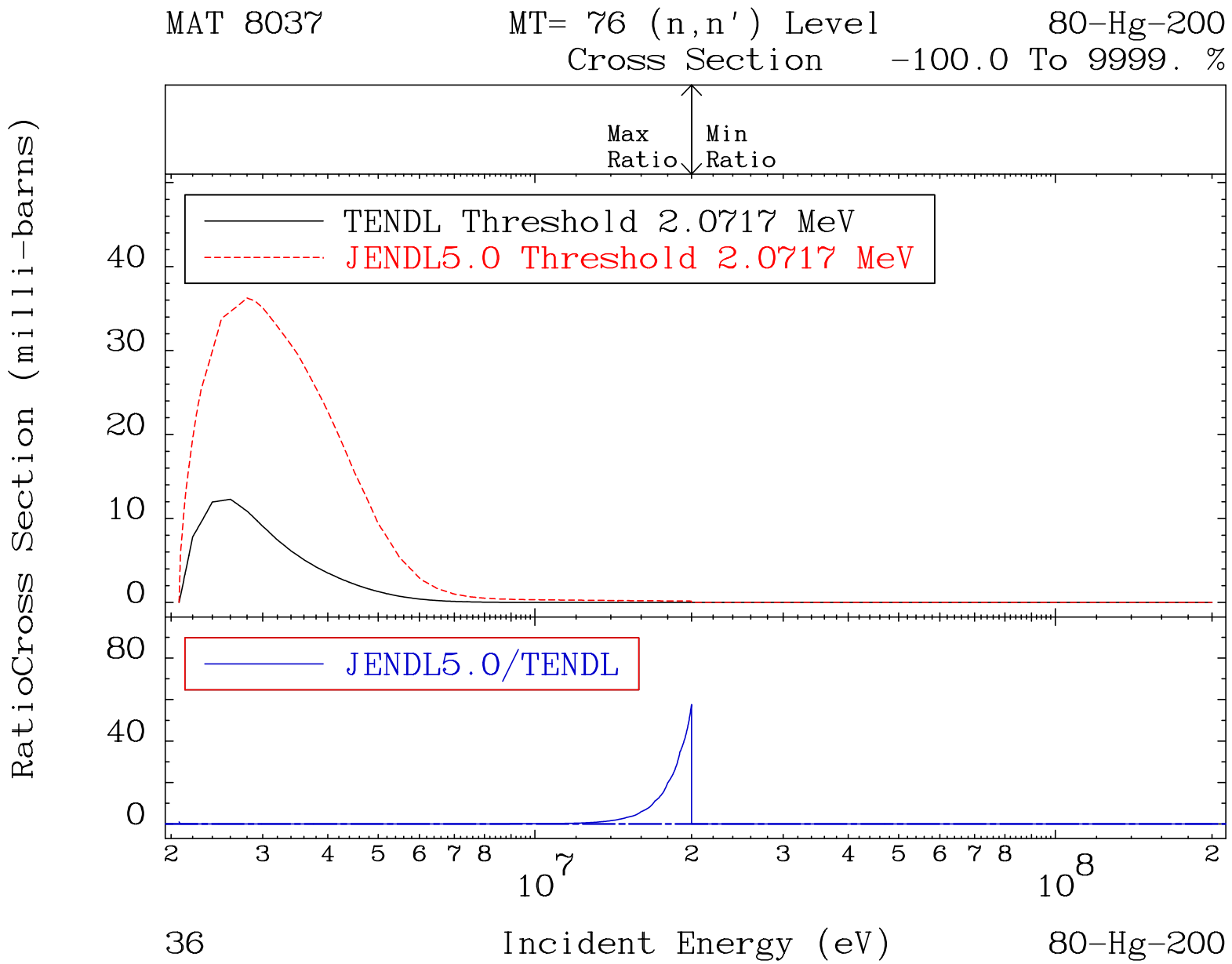

MAT 8037
MT= 71 (n,n') Level
80-Hg-200
Cross Section -100.0 To 256.9 %
Min Ratio
Max Ratio
TENDL Threshold 1.8924 MeV
JENDL5.0 Threshold 1.8924 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
80-Hg-200

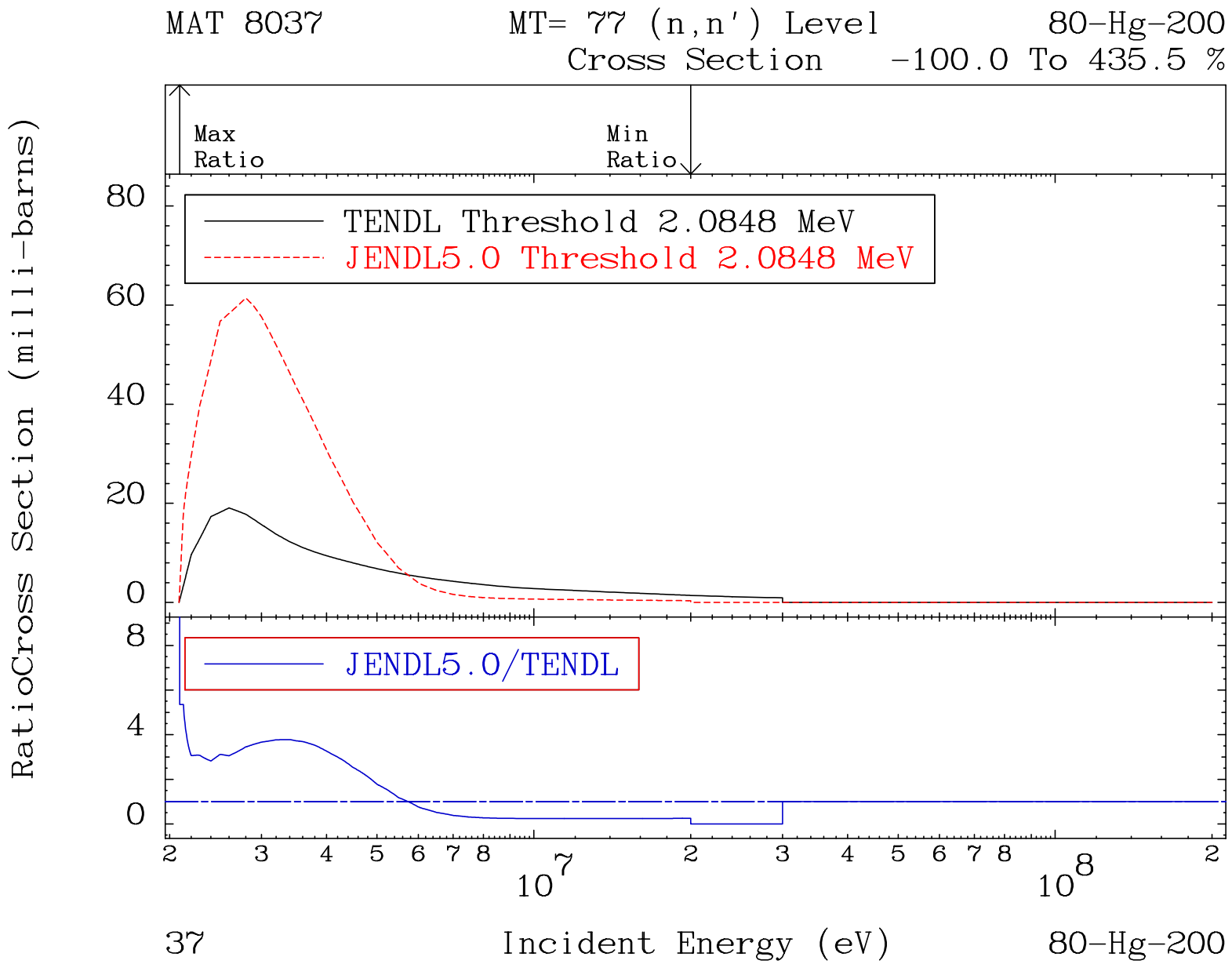

MAT 8037
MT= 72 (n,n') Level
80-Hg-200
Cross Section -100.0 To 398.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.9725 MeV
JENDL5.0 Threshold 1.9725 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
32
80-Hg-200

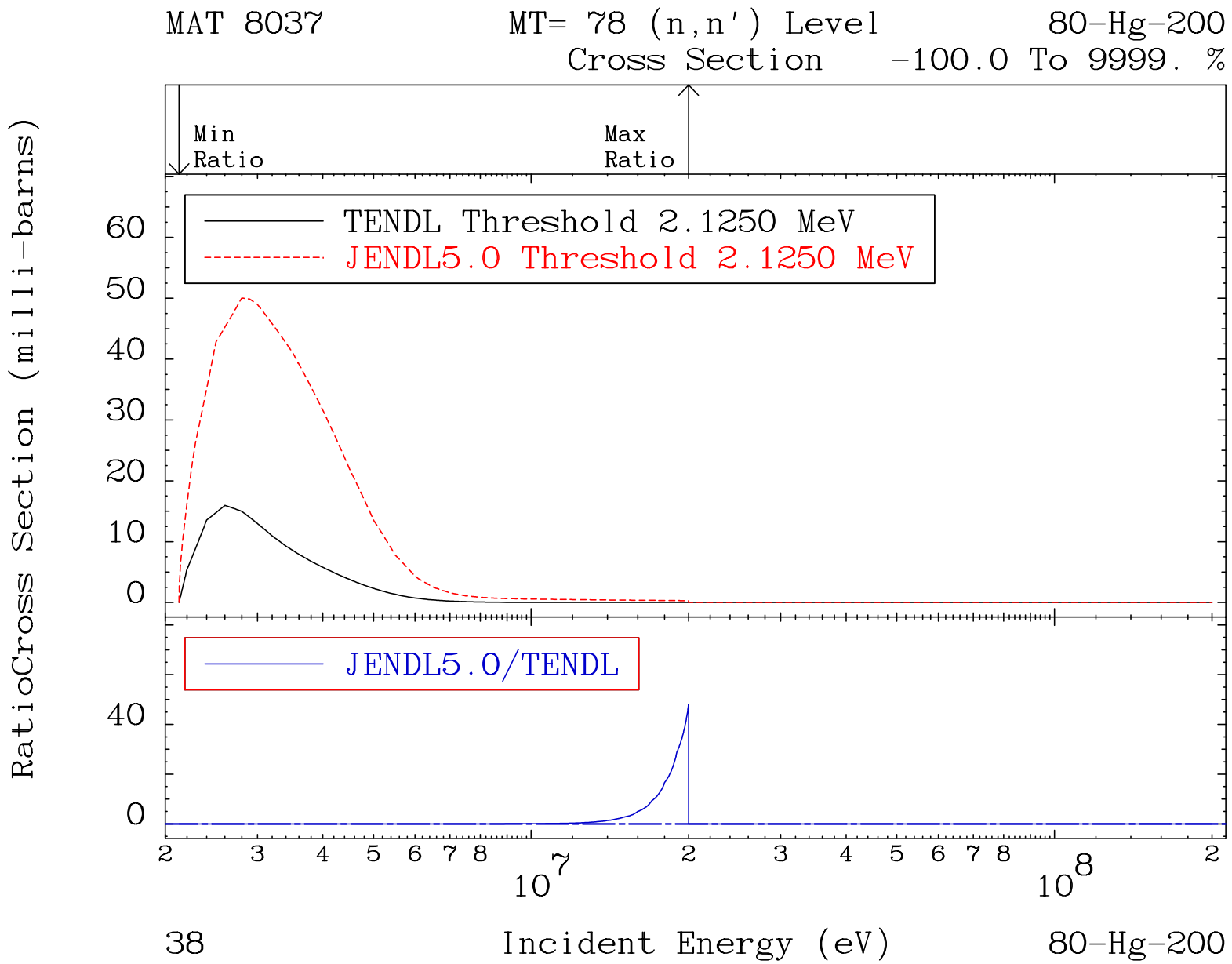

MAT 8037
MT= 73 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 719.7 %
Max
Ratio
TENDL Threshold 1.9822 MeV
JENDL5.0 Threshold 1.9822 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
12
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
80-Hg-200

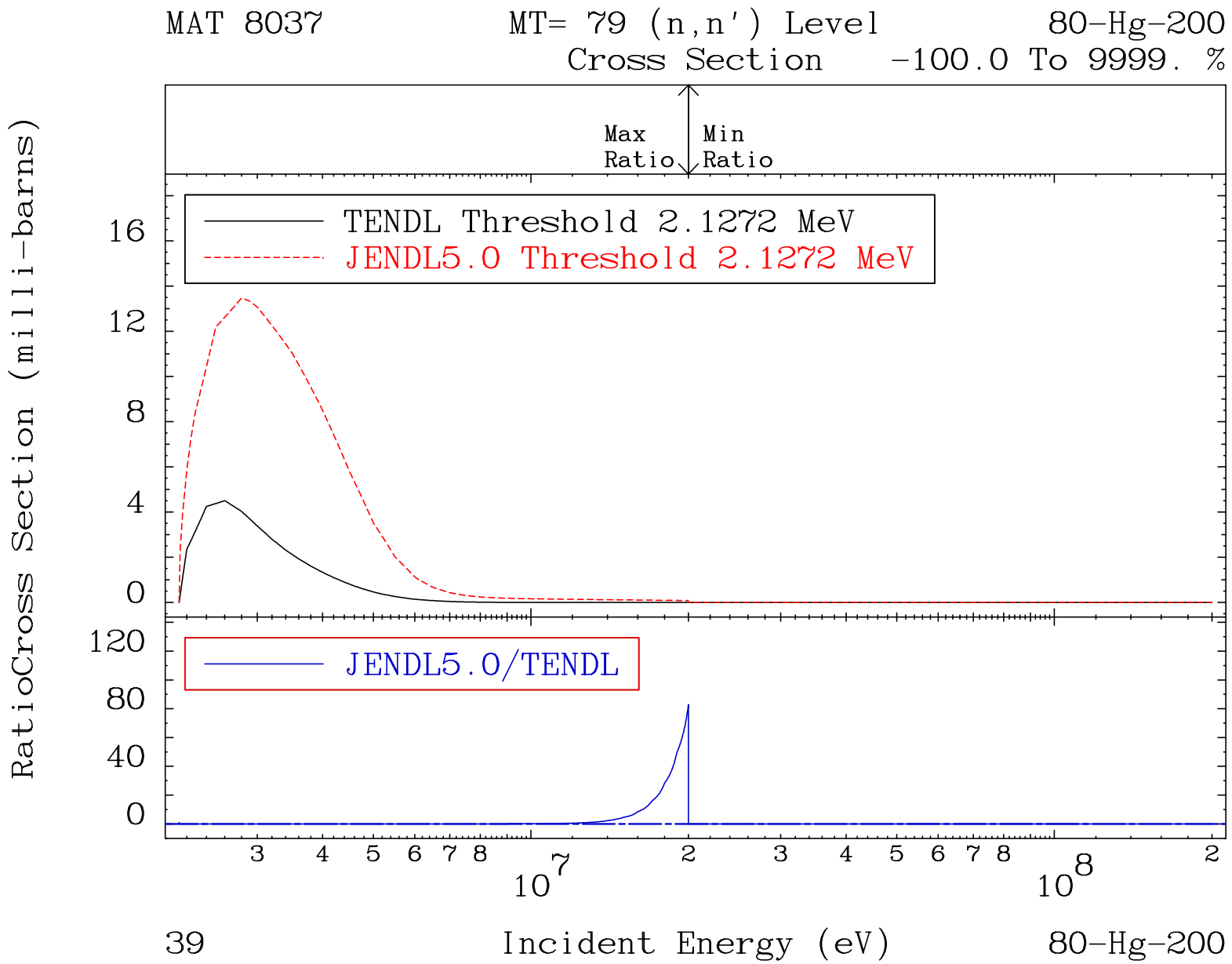

MAT 8037
MT= 74 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9843 MeV
JENDL5.0 Threshold 1.9843 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
80-Hg-200

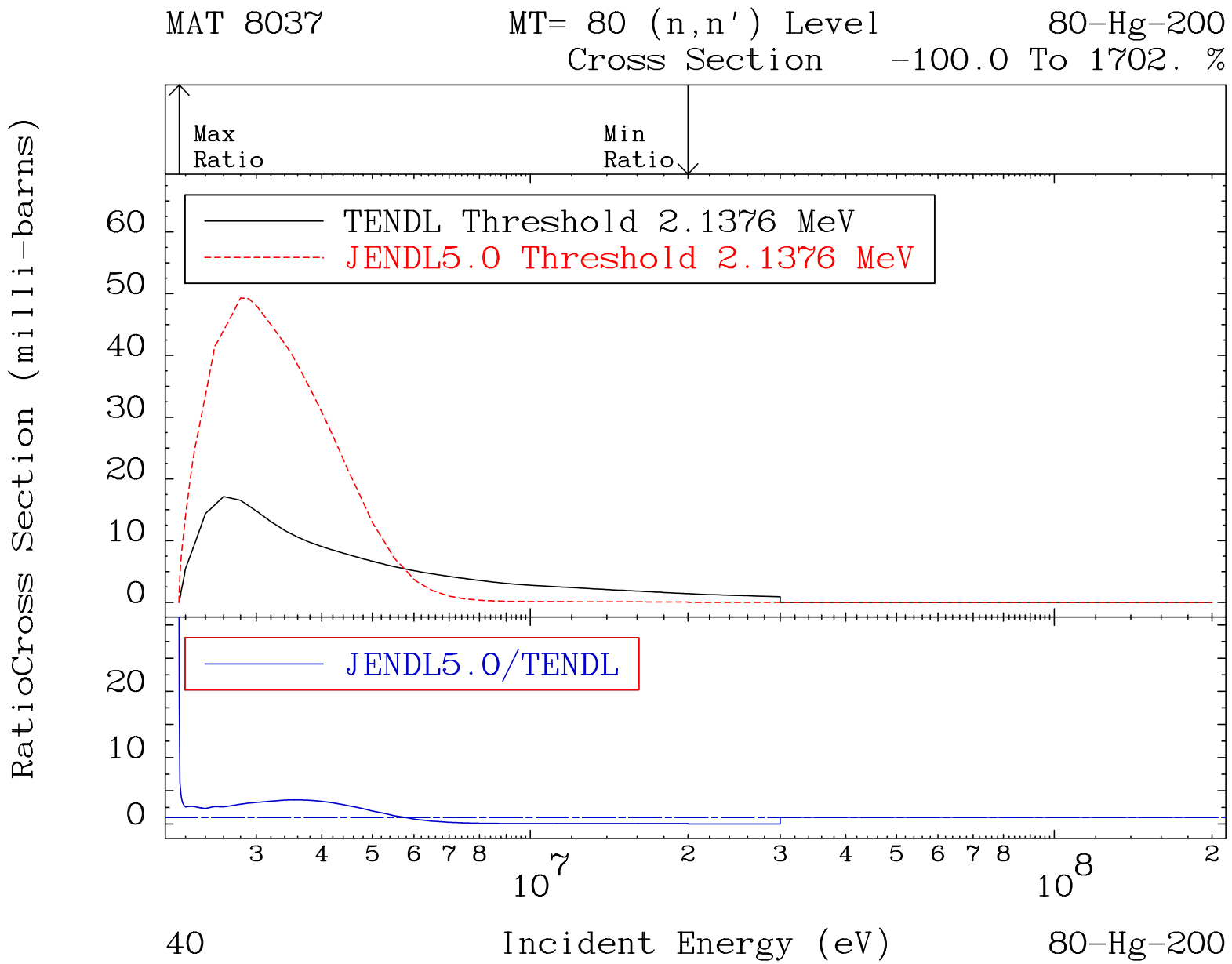

MAT 8037
MT= 75 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.0592 MeV
JENDL5.0 Threshold 2.0592 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
80-Hg-200

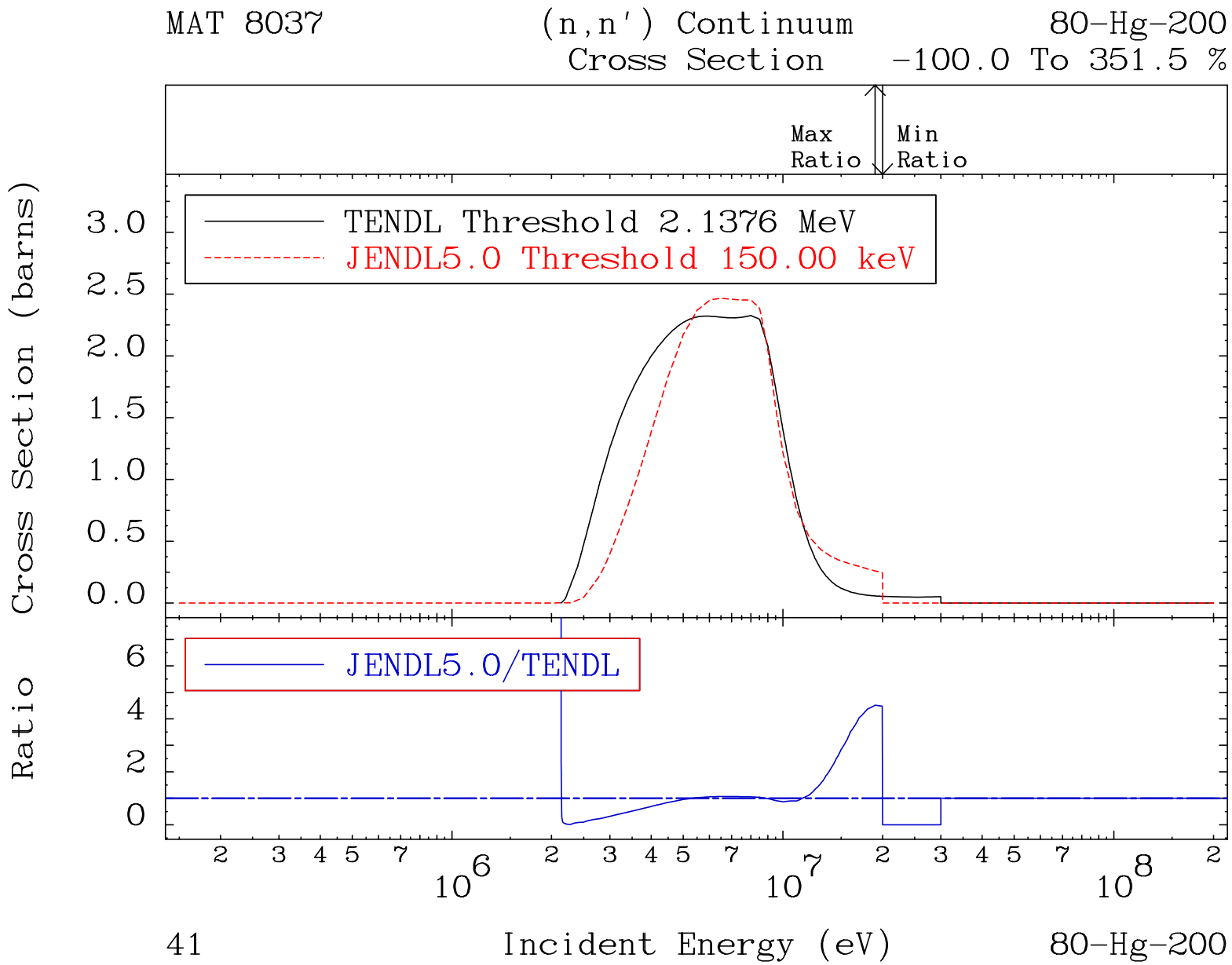

MAT 8037
MT= 76 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.0717 MeV
JENDL5.0 Threshold 2.0717 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
80-Hg-200

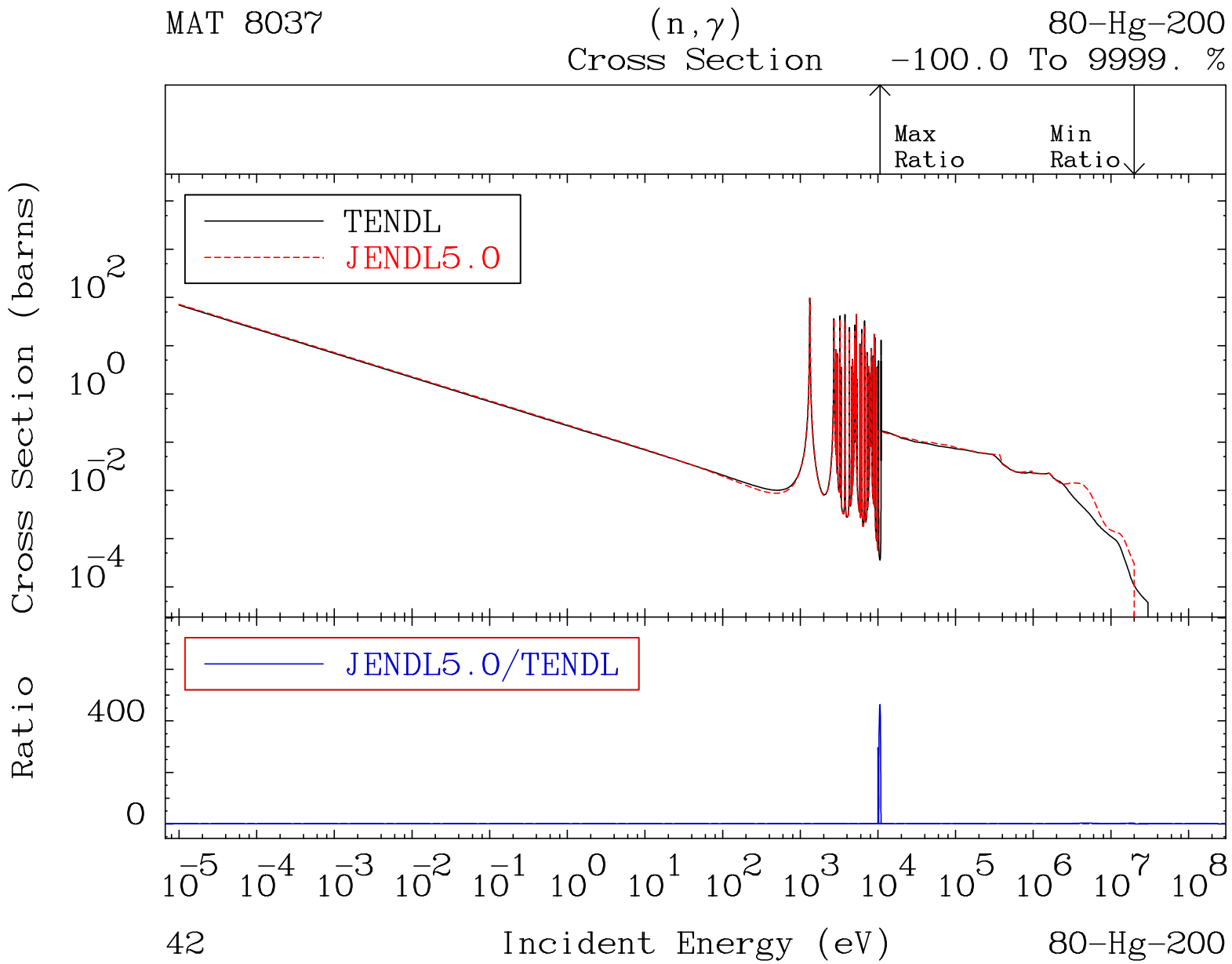

MAT 8037
MT= 77 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 435.5 %
Max Ratio
Min Ratio
TENDL Threshold 2.0848 MeV
JENDL5.0 Threshold 2.0848 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
80-Hg-200

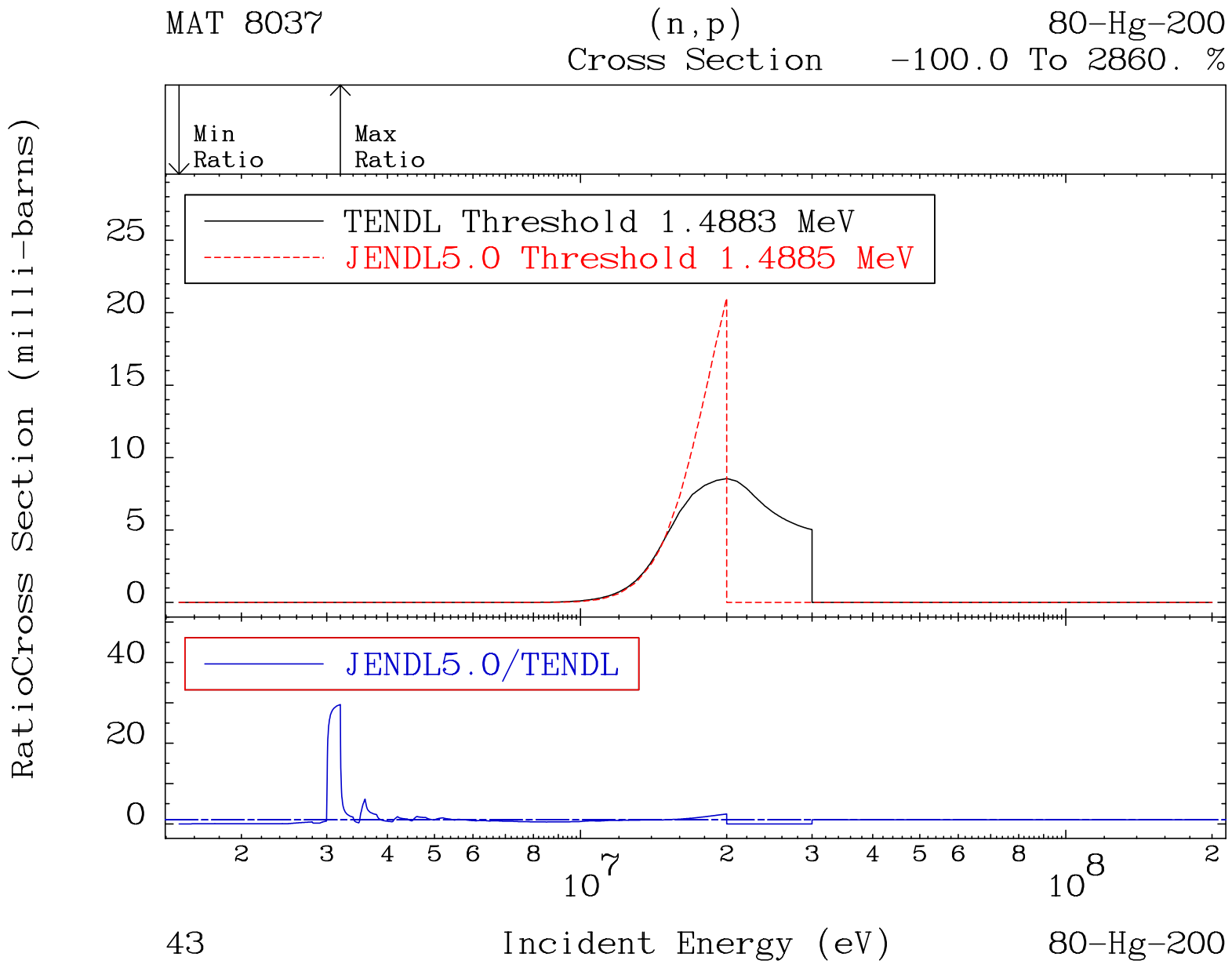

MAT 8037
MT= 78 (n,n') Level
80-Hg-200
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1250 MeV
JENDL5.0 Threshold 2.1250 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
80-Hg-200

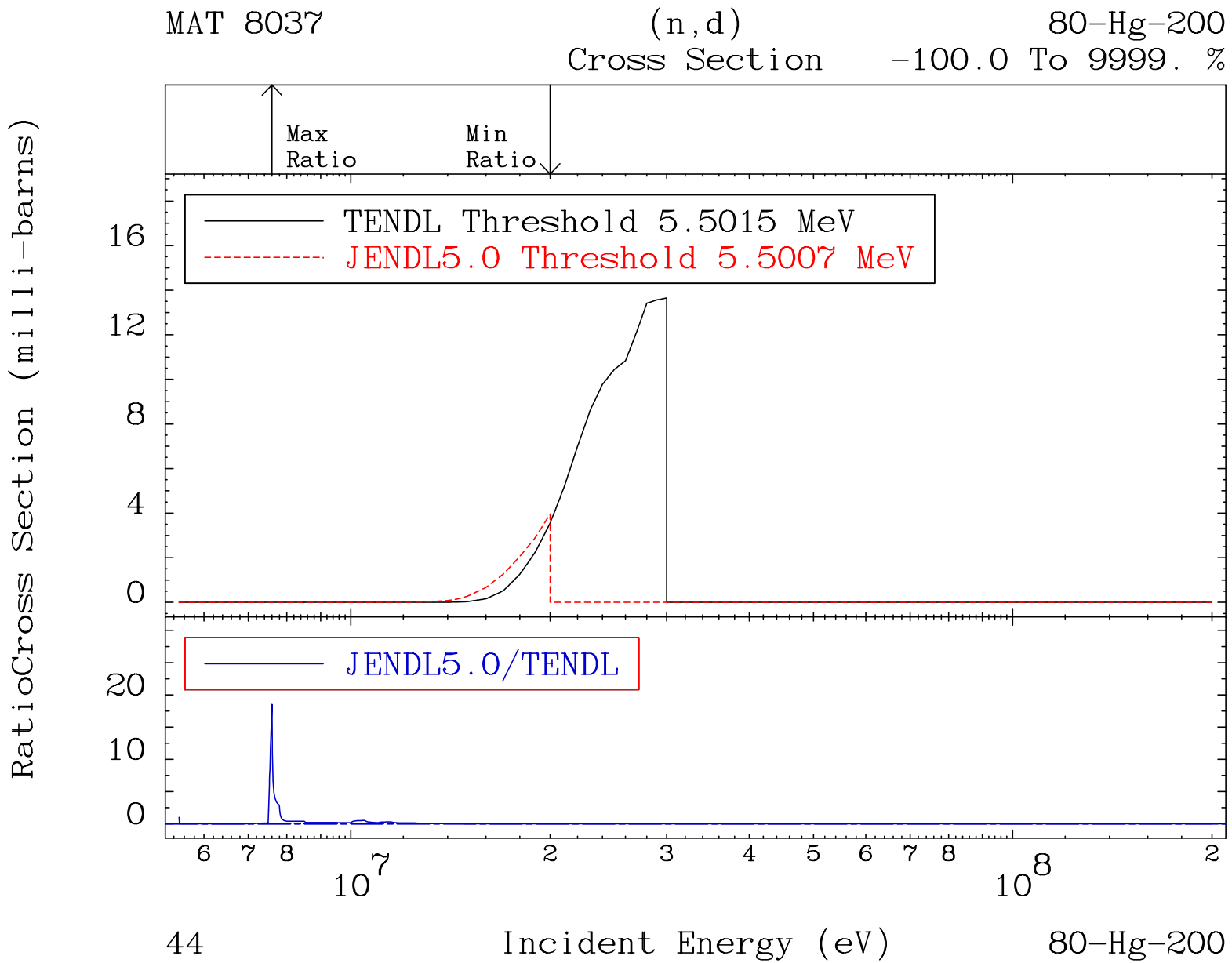

MAT 8037
MT= 79 (n,n') Level
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1272 MeV
JENDL5.0 Threshold 2.1272 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
120
80
40
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
80-Hg-200

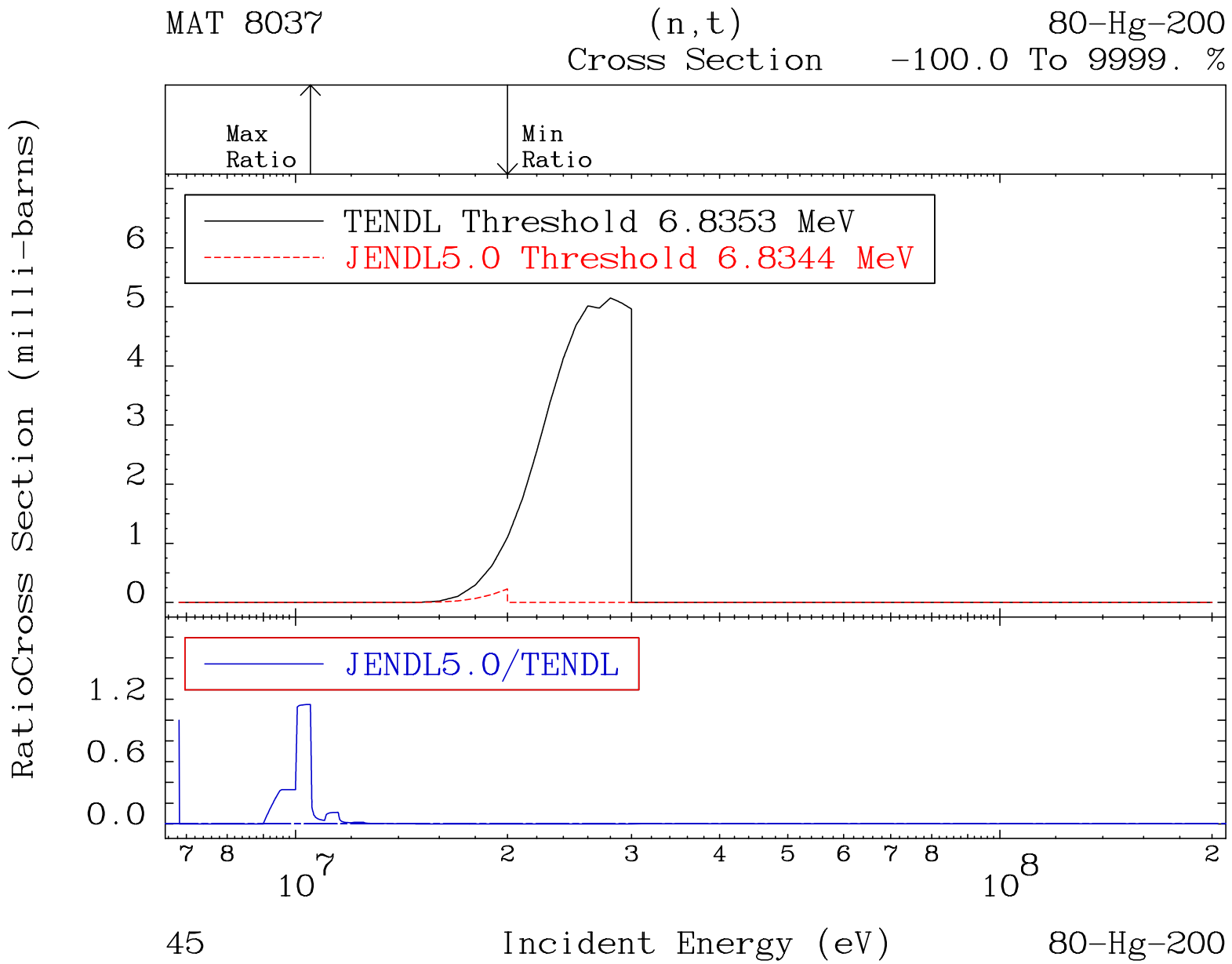

MAT 8037
MT= 80 (n,n') Level
80-Hg-200
Cross Section -100.0 To 1702. %
Max Ratio
Min Ratio
TENDL Threshold 2.1376 MeV
JENDL5.0 Threshold 2.1376 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
20
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
80-Hg-200

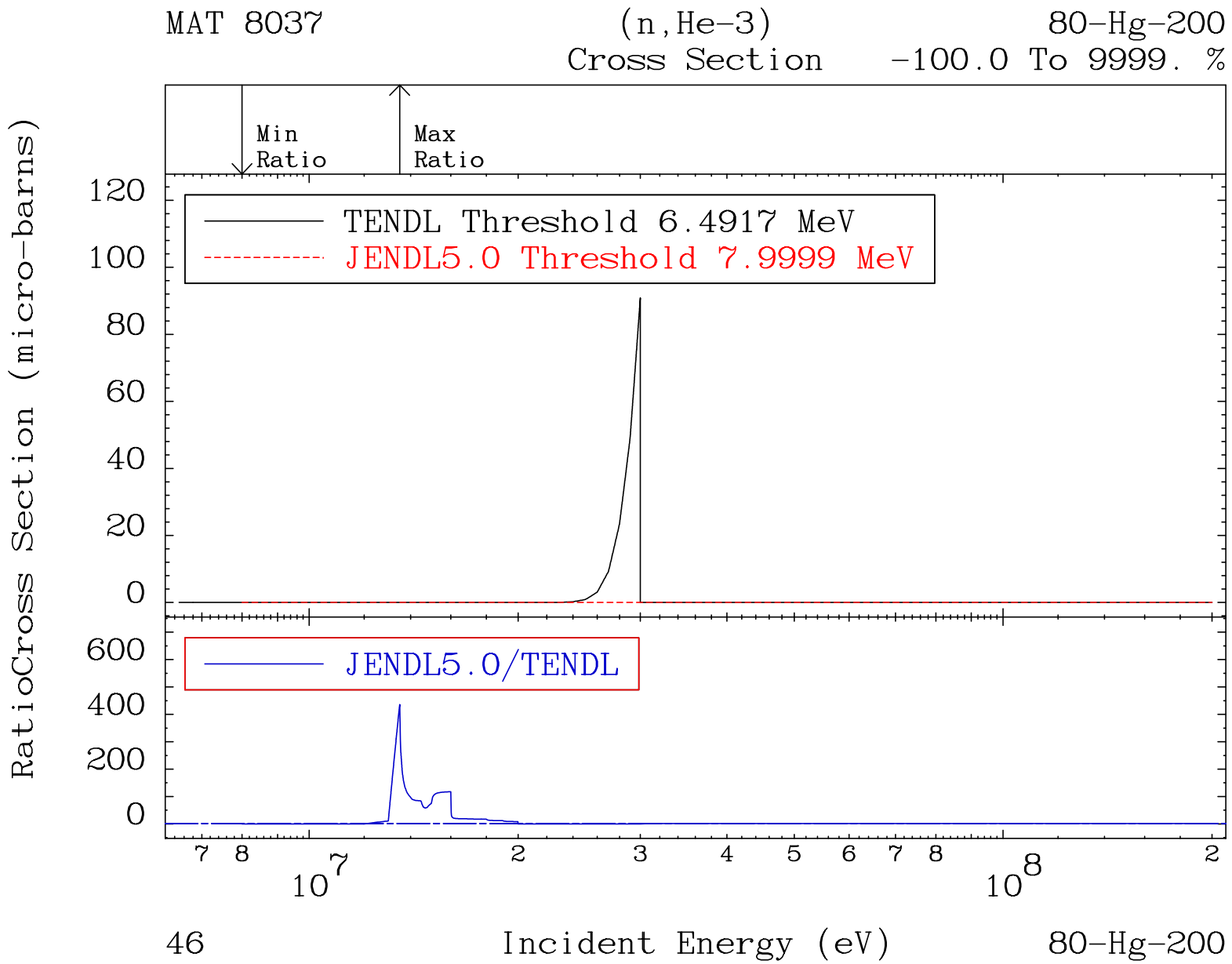

MAT 8037
(n,n') Continuum
Cross Section
80-Hg-200
-100.0 To 351.5 %
Max Ratio
Min Ratio
TENDL Threshold 2.1376 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
80-Hg-200

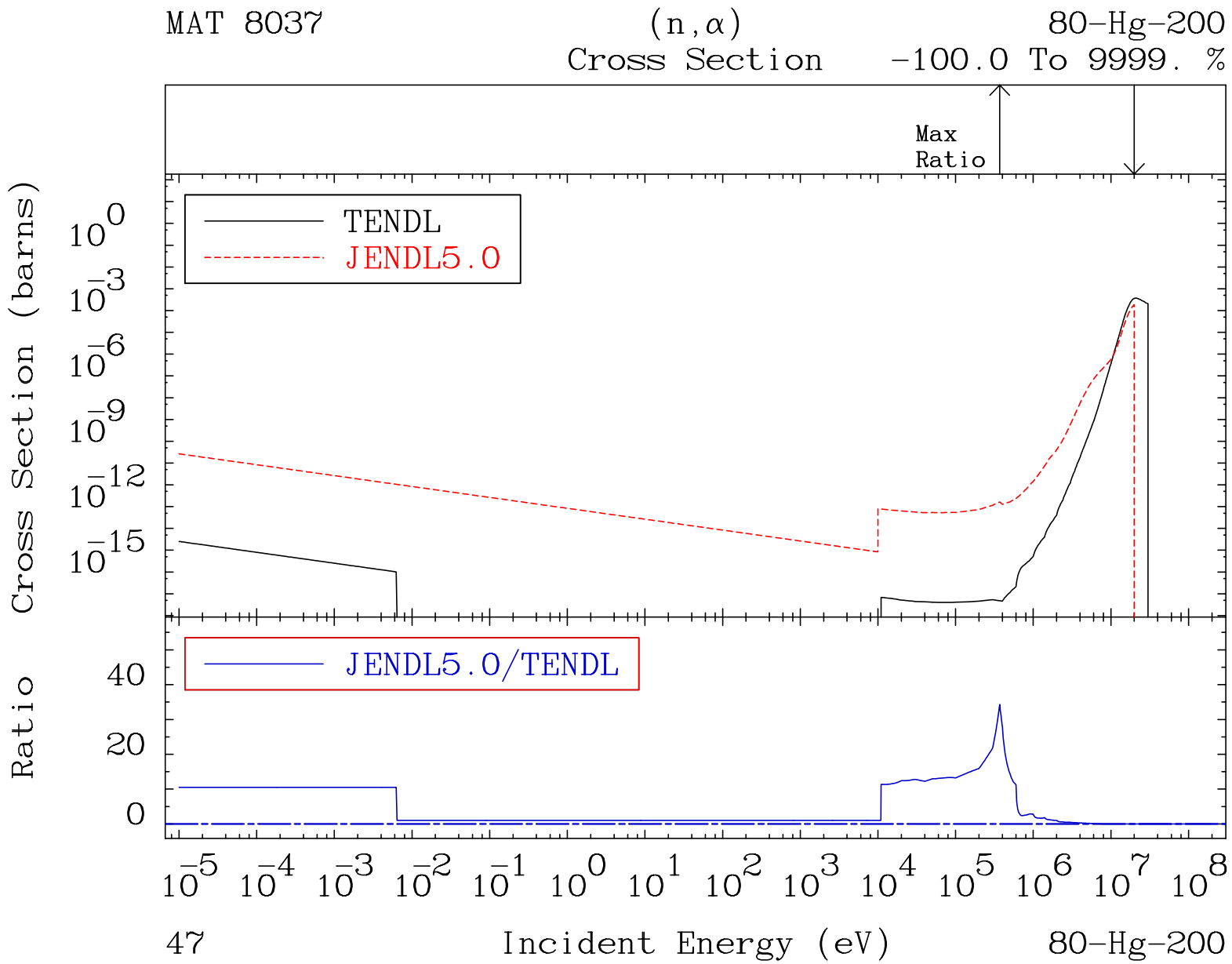

MAT 8037
(n,γ)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^2
10^0
10^-2
10^-4
JENDL5.0/TENDL
Ratio
400
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
80-Hg-200

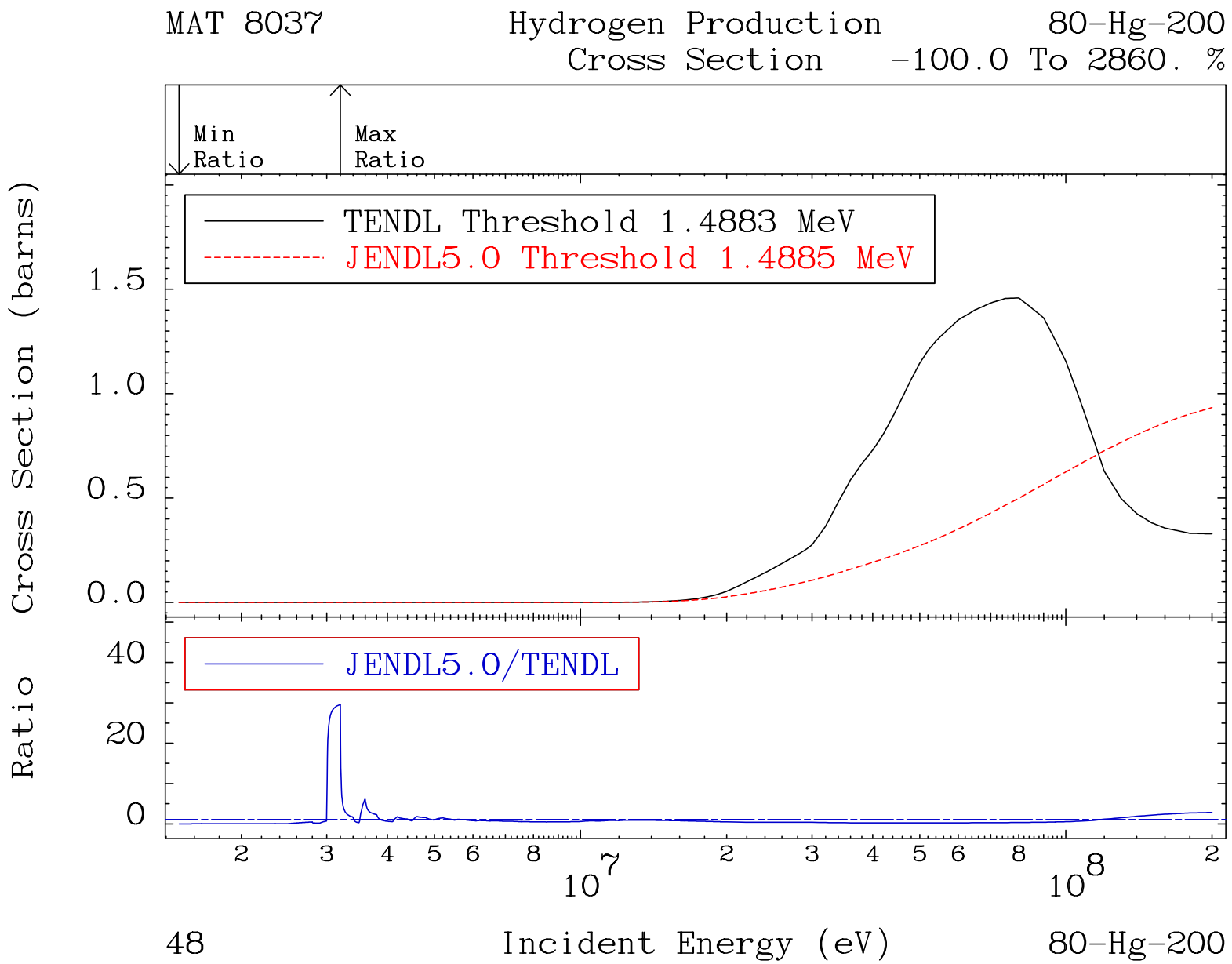

MAT 8037
(n,p)
Cross Section
80-Hg-200
-100.0 To 2860. %
Min Ratio
Max Ratio
TENDL Threshold 1.4883 MeV
JENDL5.0 Threshold 1.4885 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
43
80-Hg-200

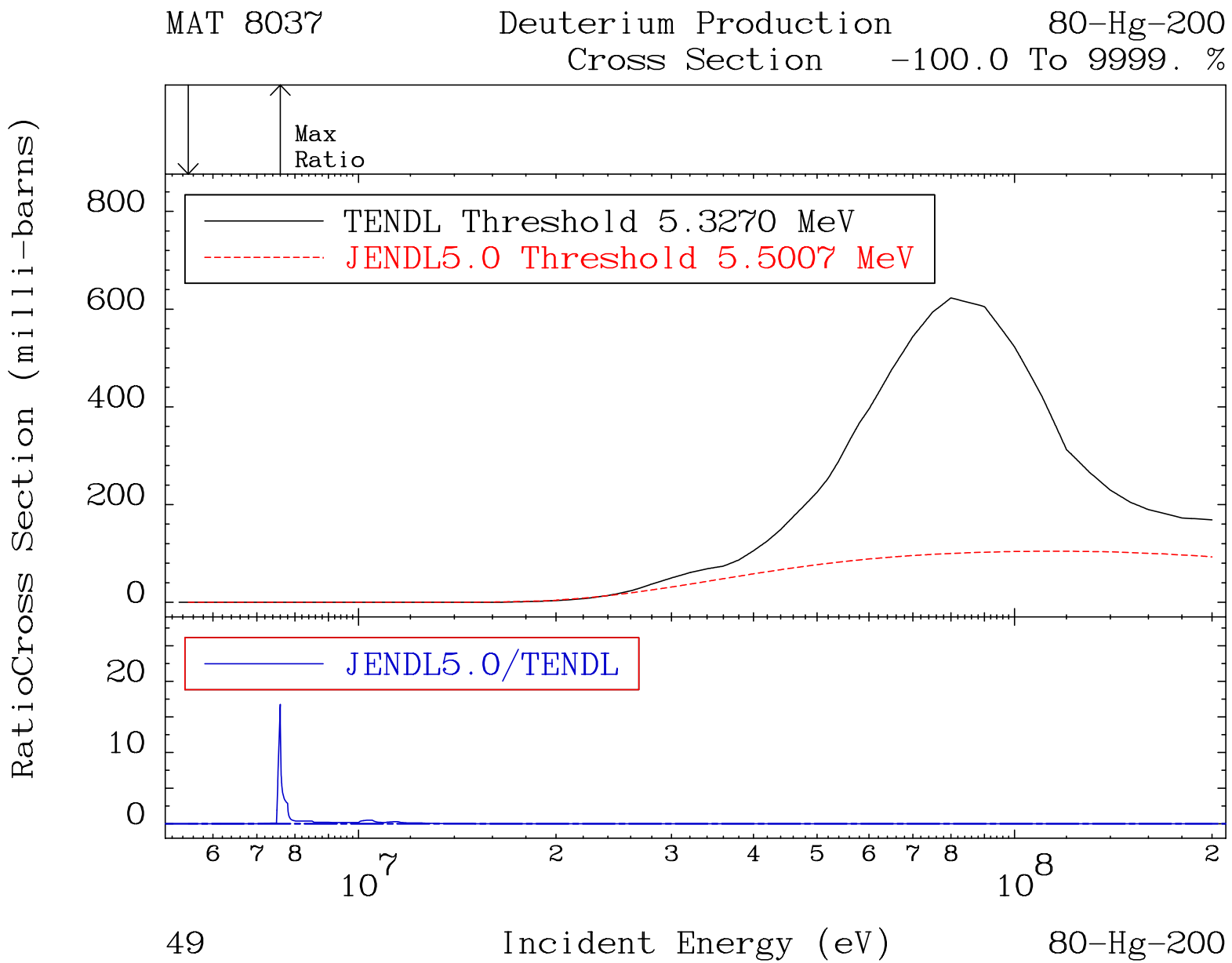

MAT 8037
(n,d)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.5015 MeV
JENDL5.0 Threshold 5.5007 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
80-Hg-200

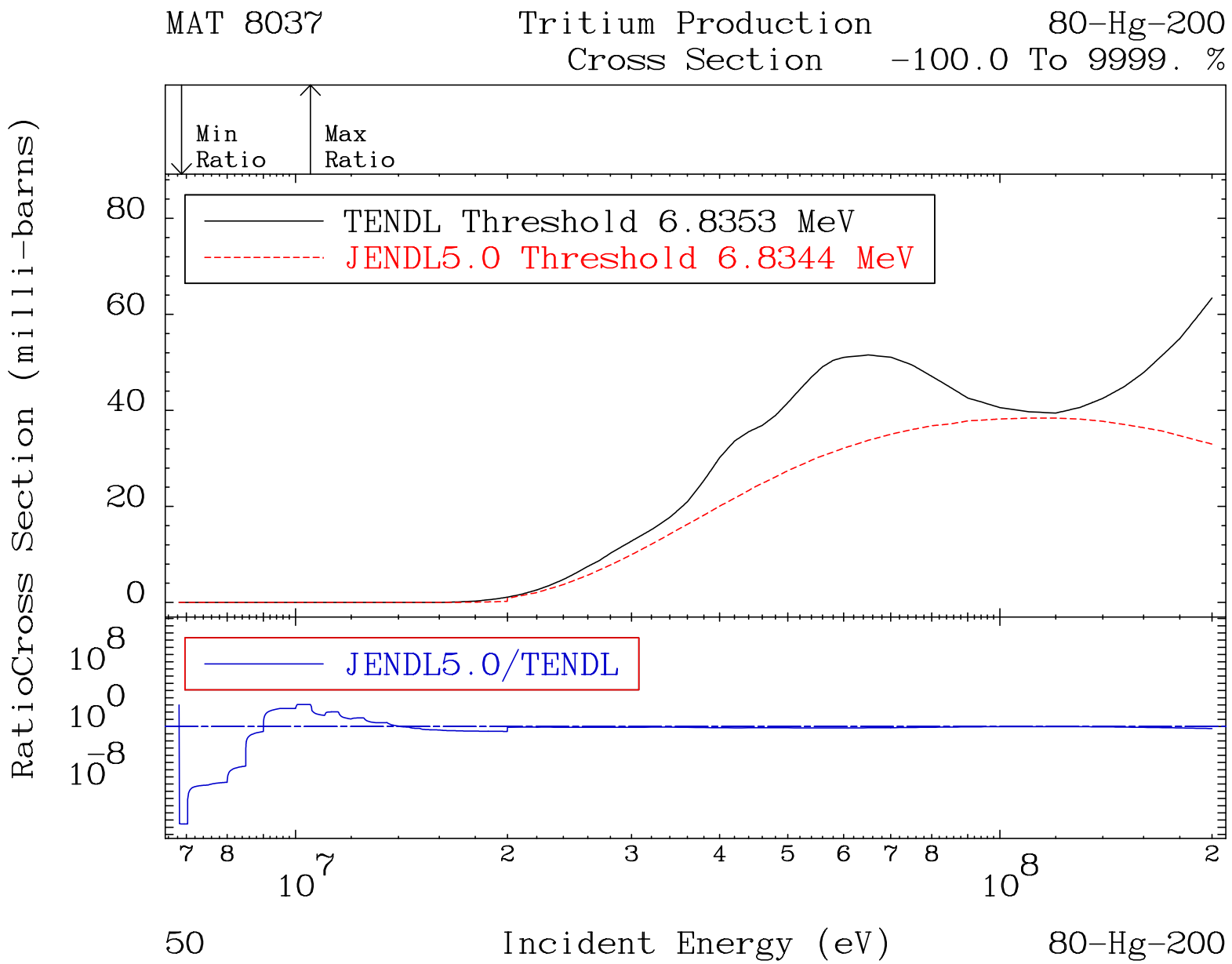

MAT 8037
(n,t)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.8353 MeV
JENDL5.0 Threshold 6.8344 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
45
80-Hg-200

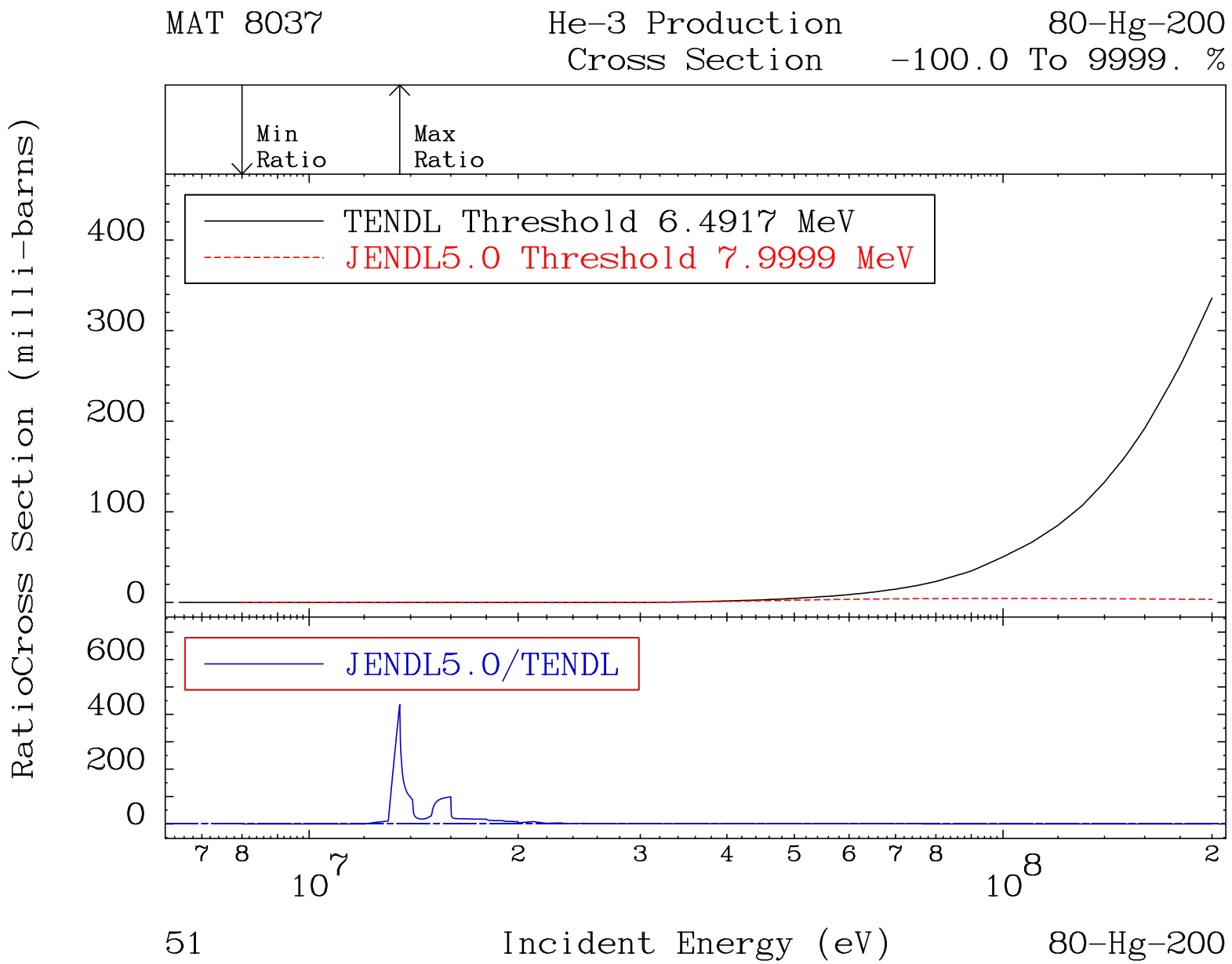

MAT 8037
(n,He-3)
Cross Section
80-Hg-200
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.4917 MeV
JENDL5.0 Threshold 7.9999 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
120
100
80
60
40
20
0
600
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
80-Hg-200

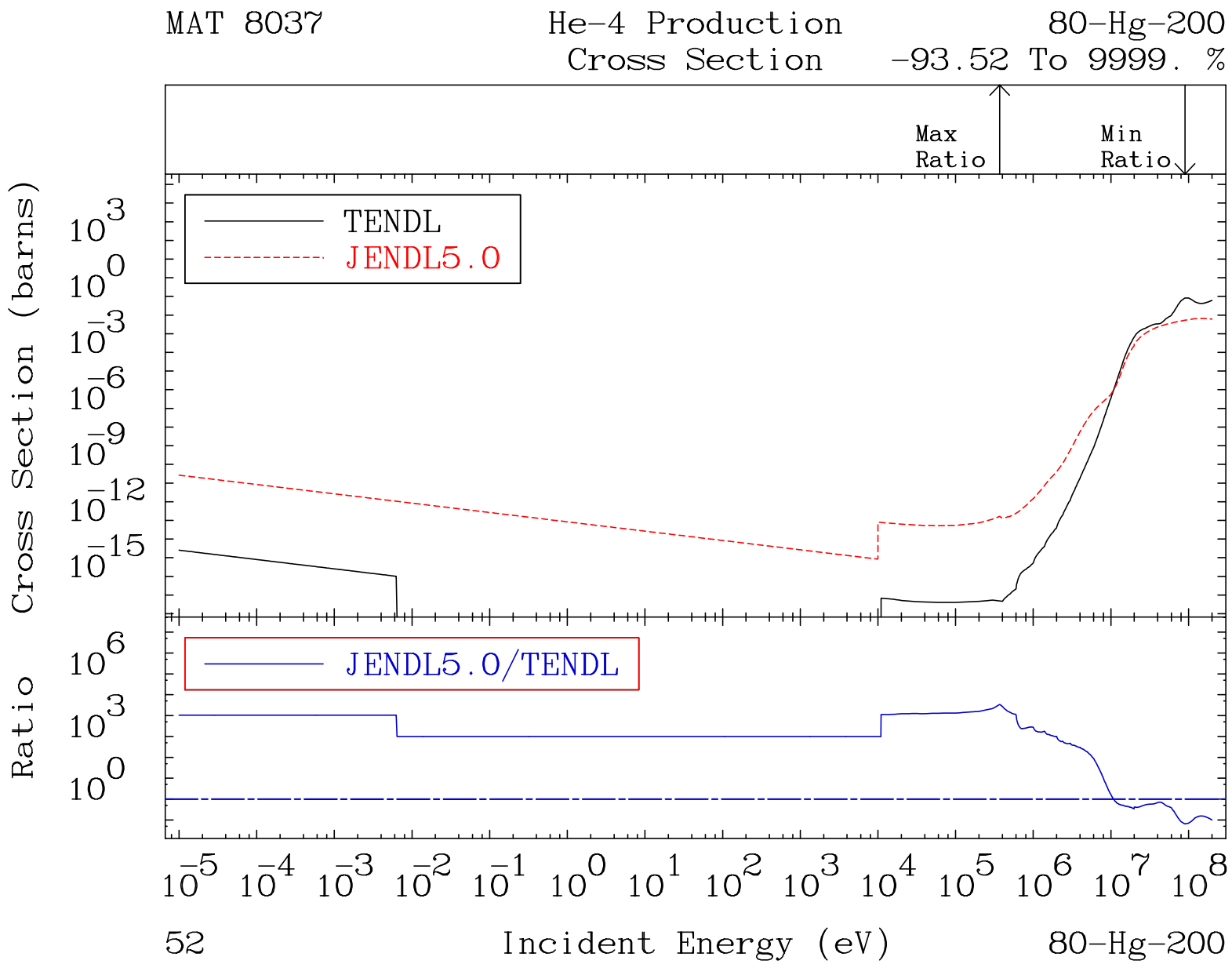

MAT 8037
(n,α)
Cross Section
80-Hg-200
-100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
JENDL5.0/TENDL
Ratio
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
47
Incident Energy (eV)
80-Hg-200

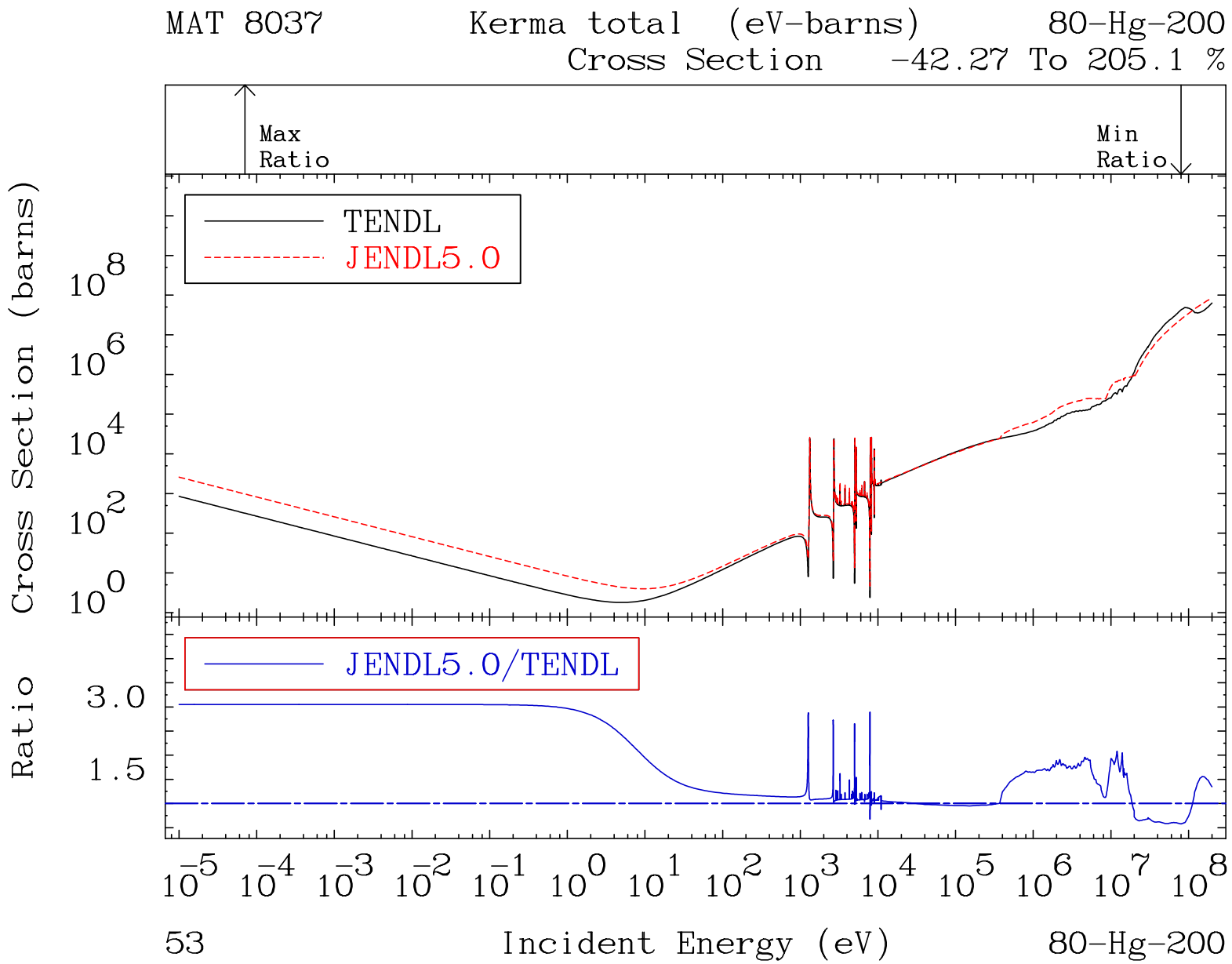

MAT 8037
Hydrogen Production
80-Hg-200
Cross Section
-100.0 To 2860. %
Min Ratio
Max Ratio
TENDL Threshold 1.4883 MeV
JENDL5.0 Threshold 1.4885 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
40
20
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
48
Incident Energy (eV)
80-Hg-200

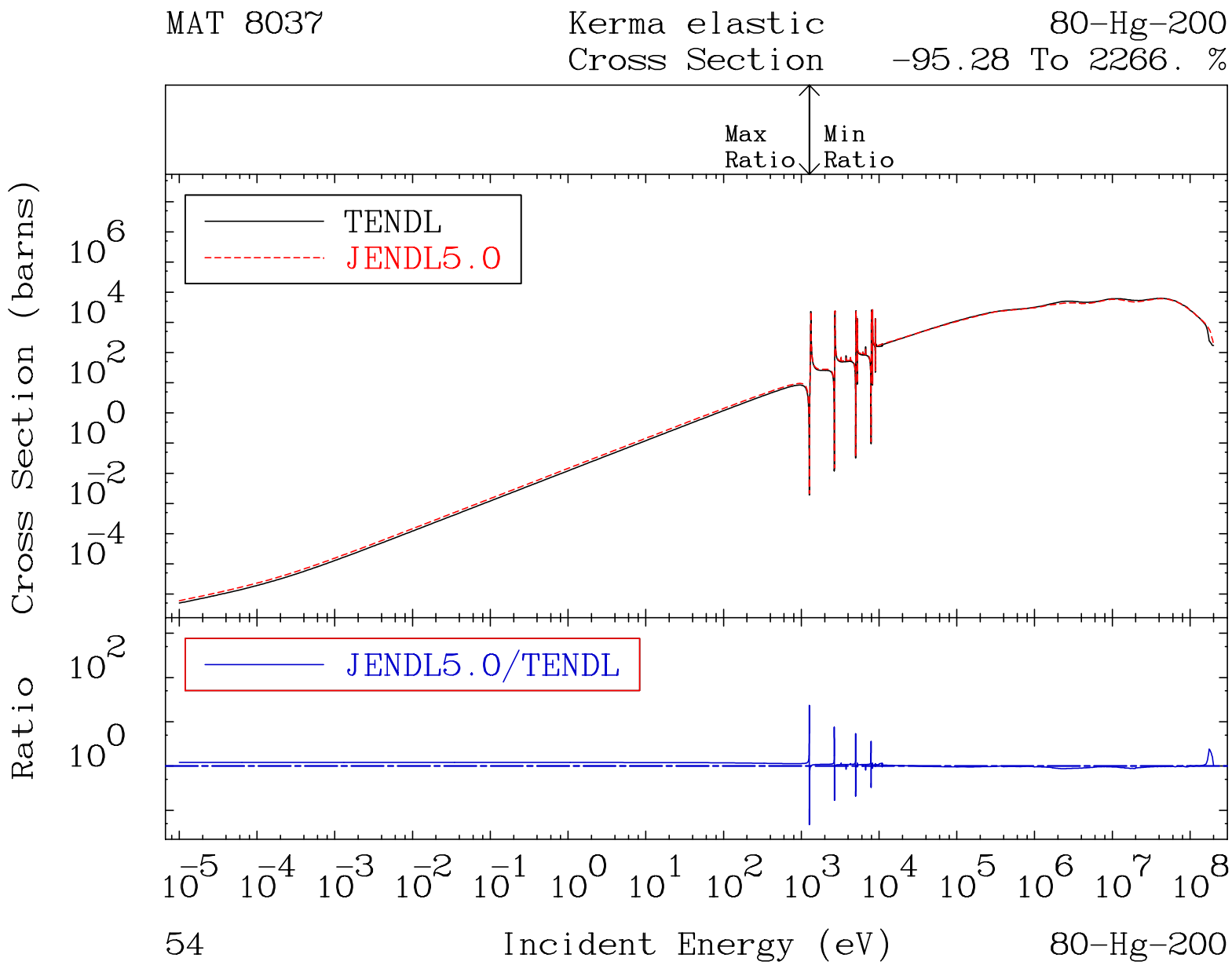

MAT 8037
Deuterium Production
80-Hg-200
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.3270 MeV
JENDL5.0 Threshold 5.5007 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
80-Hg-200

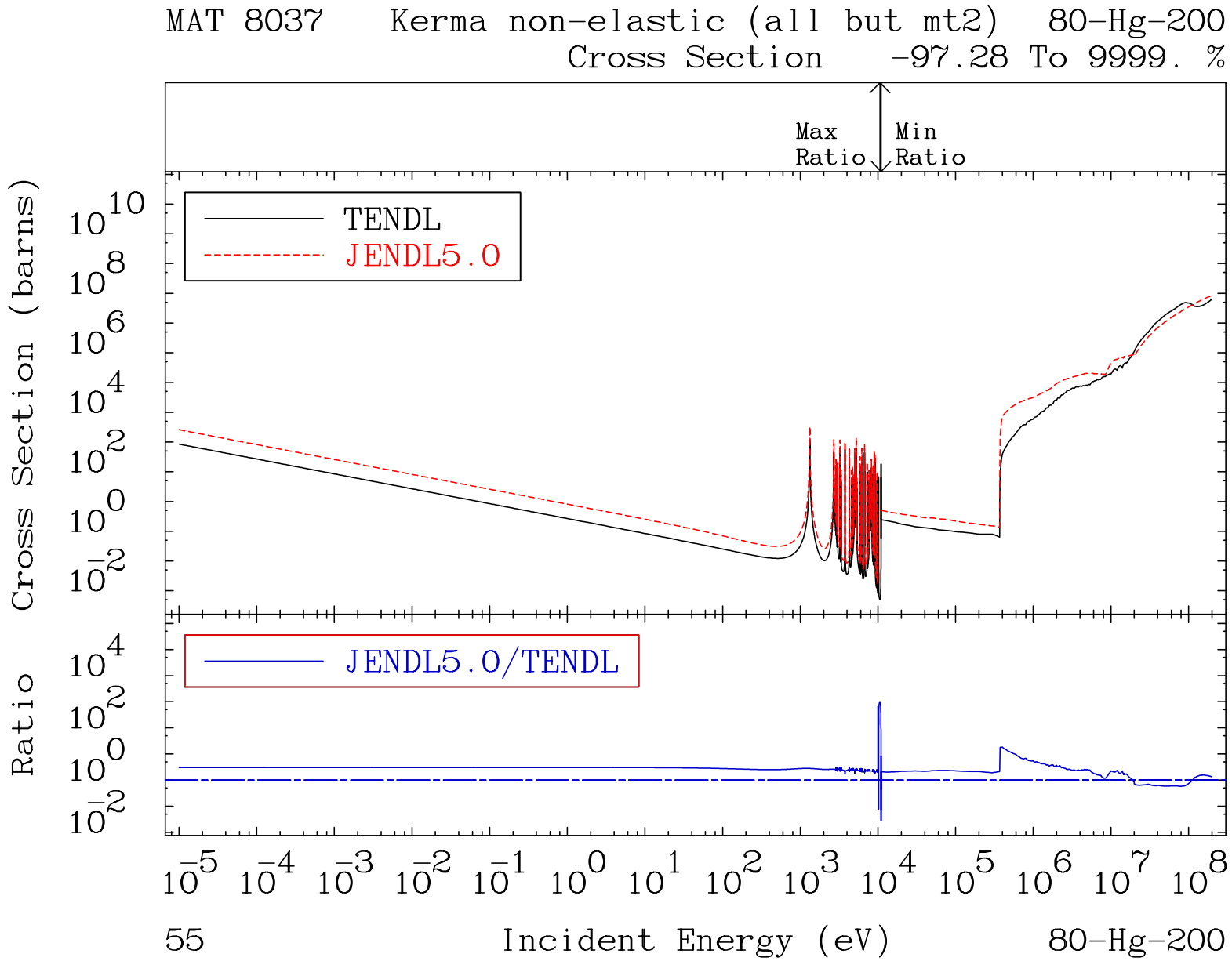

MAT 8037
Tritium Production
80-Hg-200
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.8353 MeV
JENDL5.0 Threshold 6.8344 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^8
10^0
10^-8
7 8 10^7 2 3 4 5 6 7 8 10^8 2
50
Incident Energy (eV)
80-Hg-200

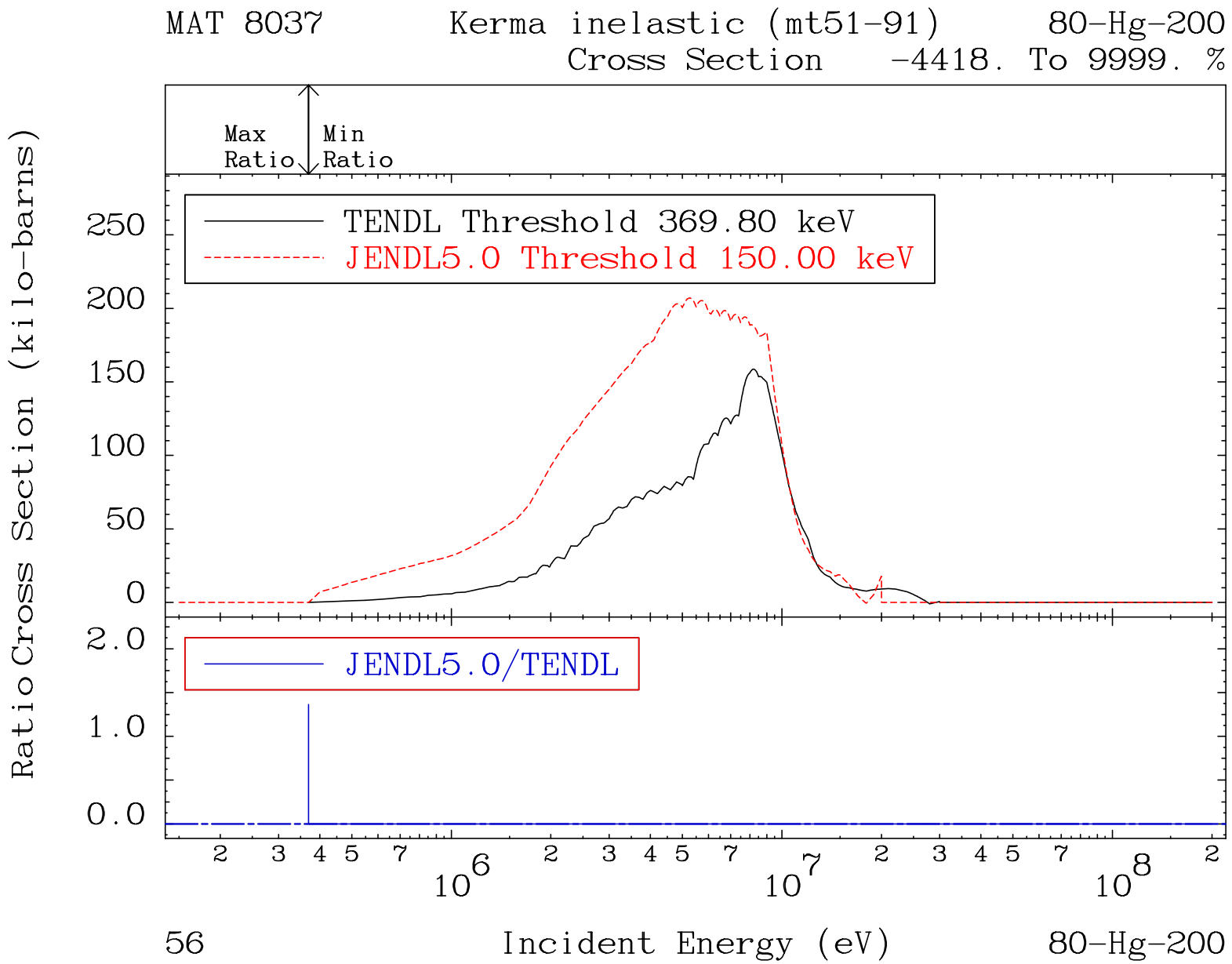

MAT 8037
He-3 Production
Cross Section
80-Hg-200
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.4917 MeV
JENDL5.0 Threshold 7.9999 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
600
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
51
Incident Energy (eV)
80-Hg-200

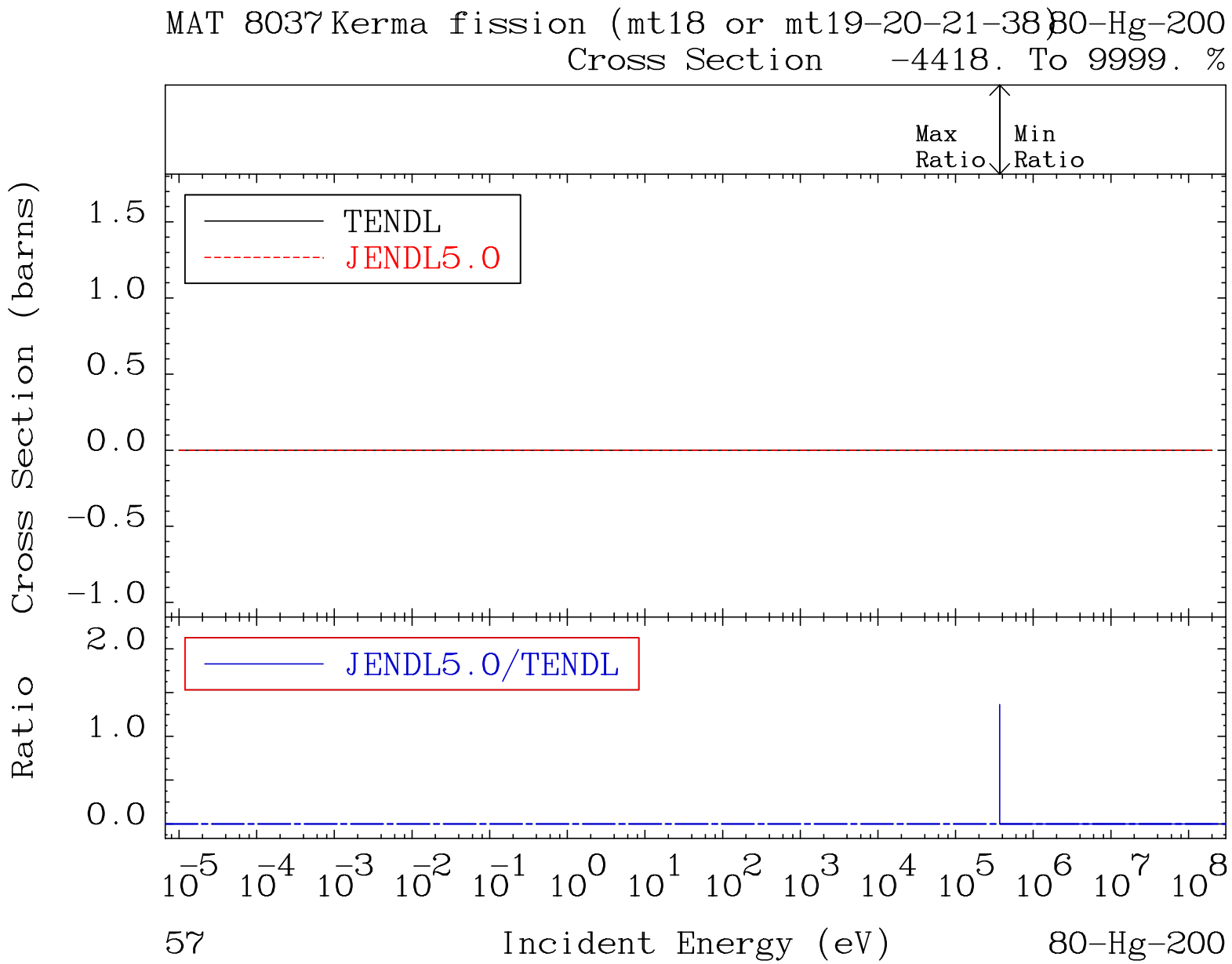

MAT 8037
He-4 Production
Cross Section
80-Hg-200
-93.52 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
80-Hg-200

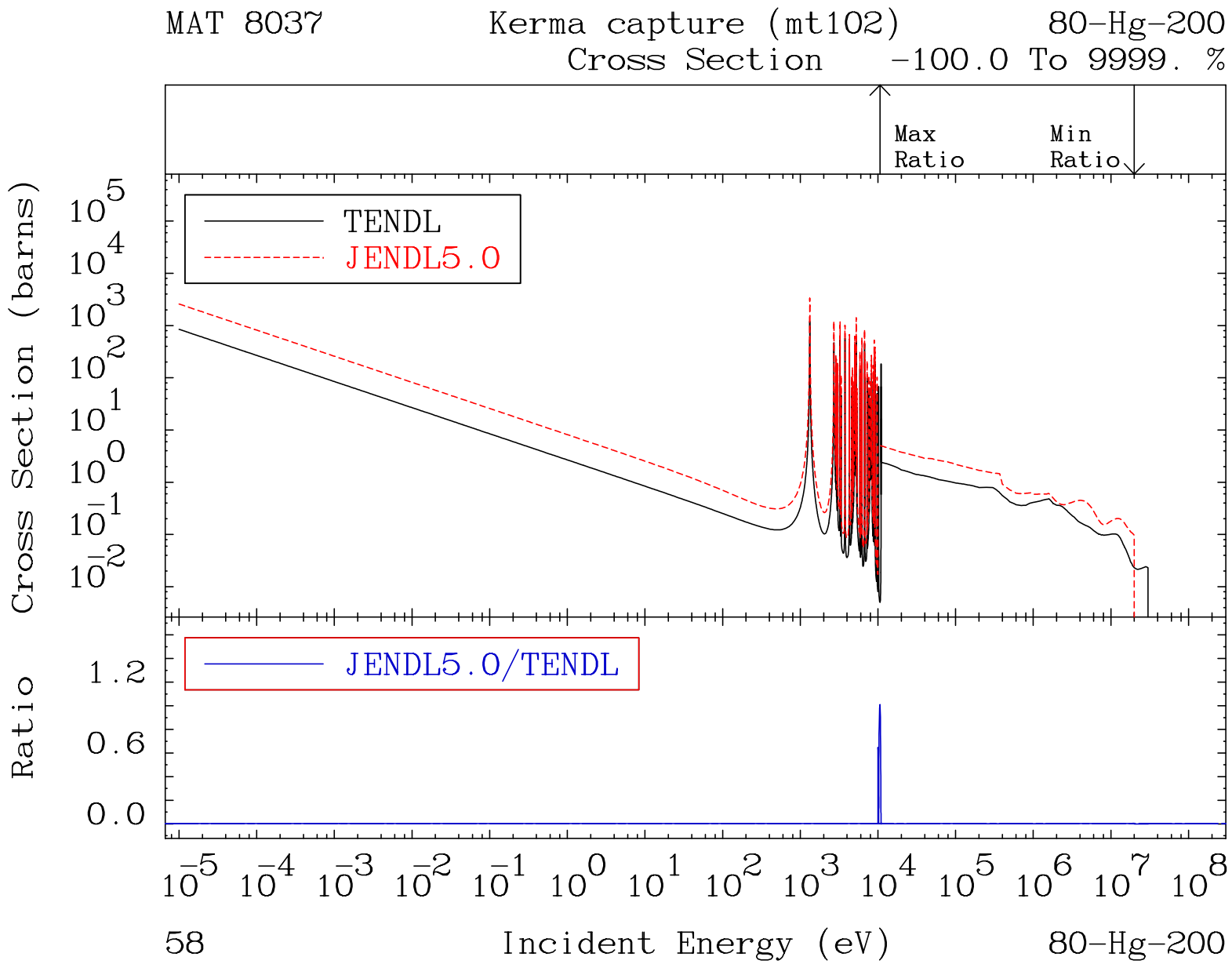

MAT 8037
Kerma total (eV-barns)
80-Hg-200
Cross Section -42.27 To 205.1 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
80-Hg-200

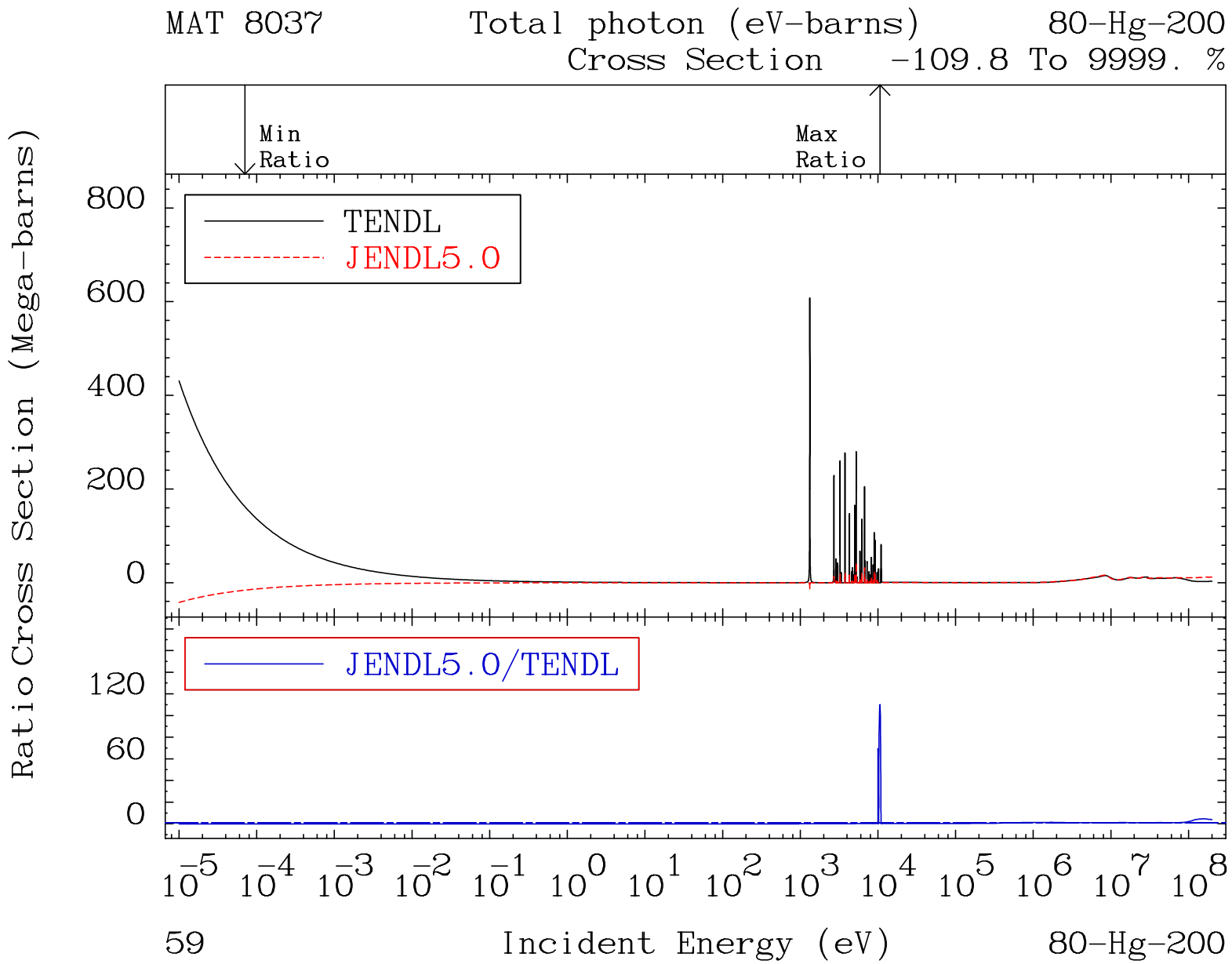

MAT 8037
Kerma elastic
Cross Section
80-Hg-200
-95.28 To 2266. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
80-Hg-200

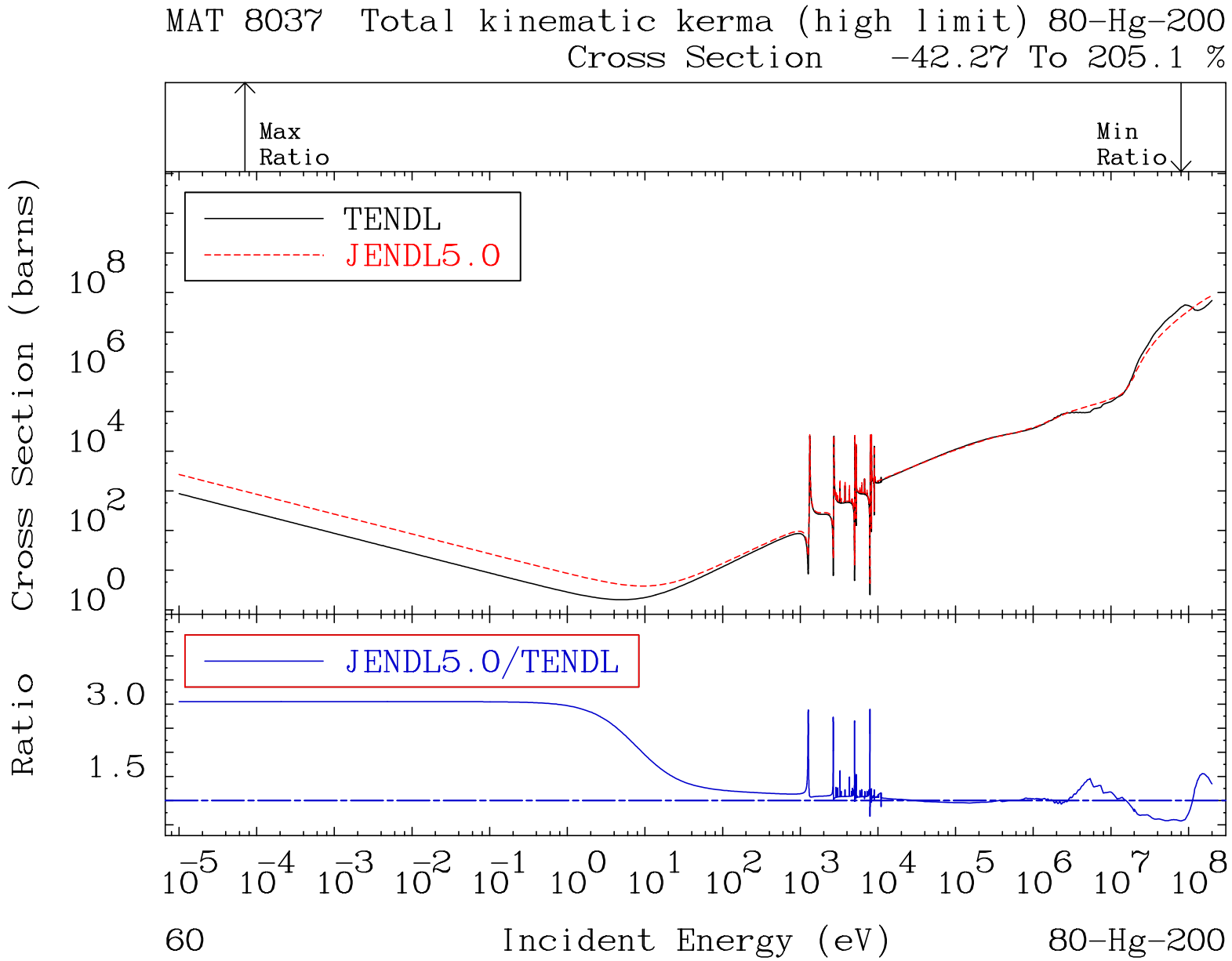

MAT 8037 Kerma non-elastic (all but mt2) 80-Hg-200
Cross Section -97.28 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
80-Hg-200

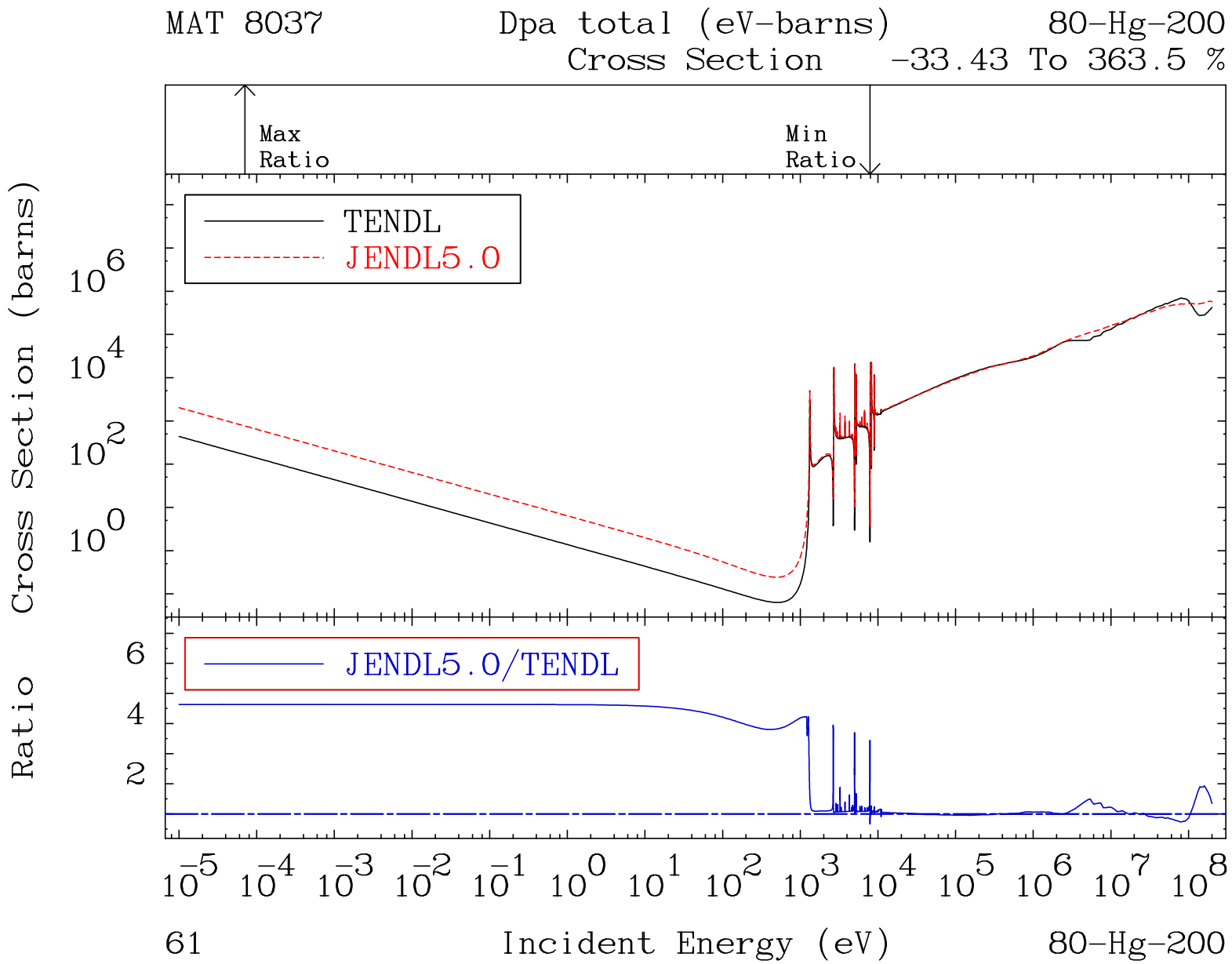

MAT 8037
Kerma inelastic (mt51-91)
80-Hg-200
Cross Section -4418. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 369.80 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (kilo-barns)
Ratio
250
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
56
80-Hg-200

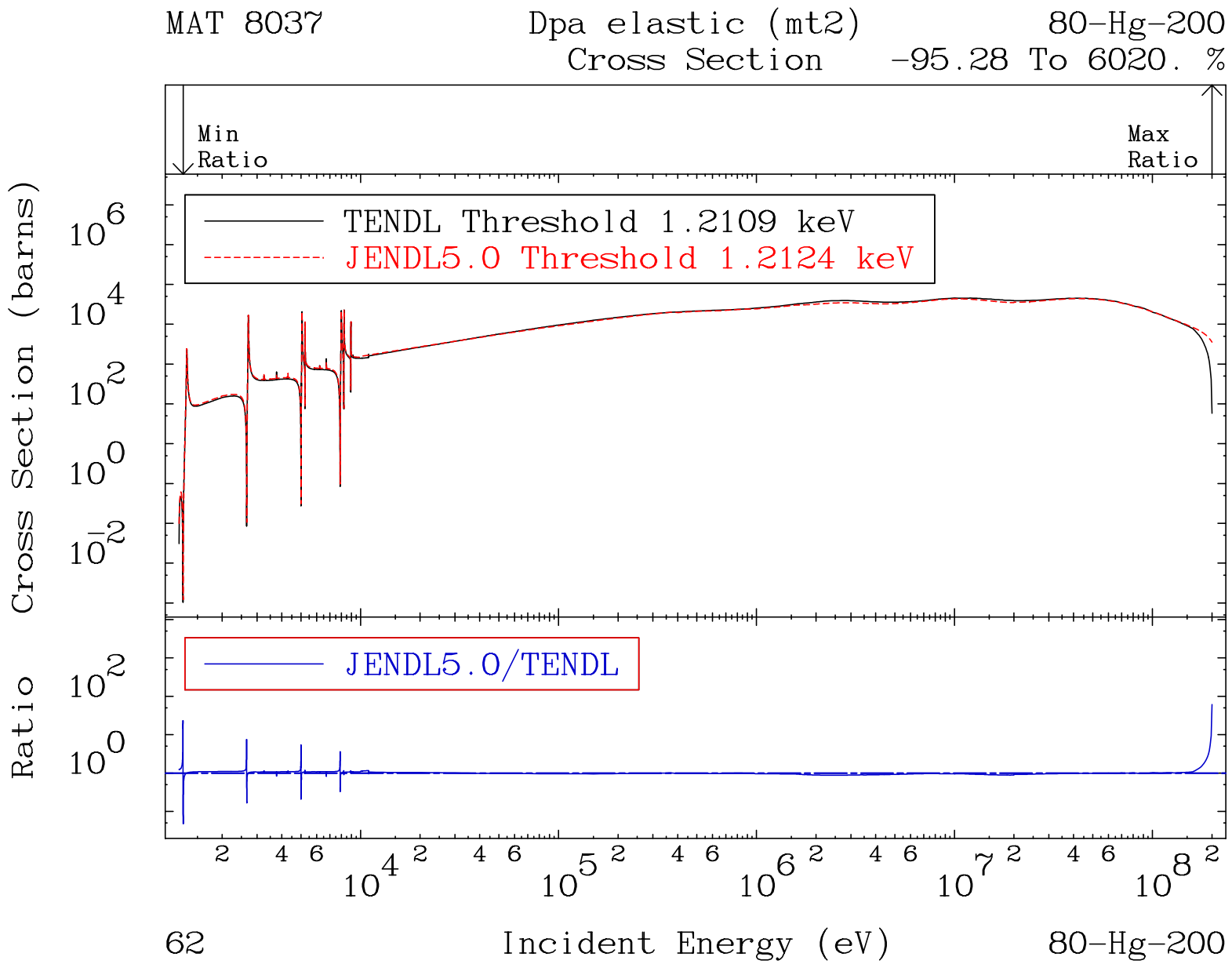

MAT 8037 Kerma fission (mt18 or mt19-20-21-38) 80-Hg-200
Cross Section -4418. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
57
Incident Energy (eV)
80-Hg-200

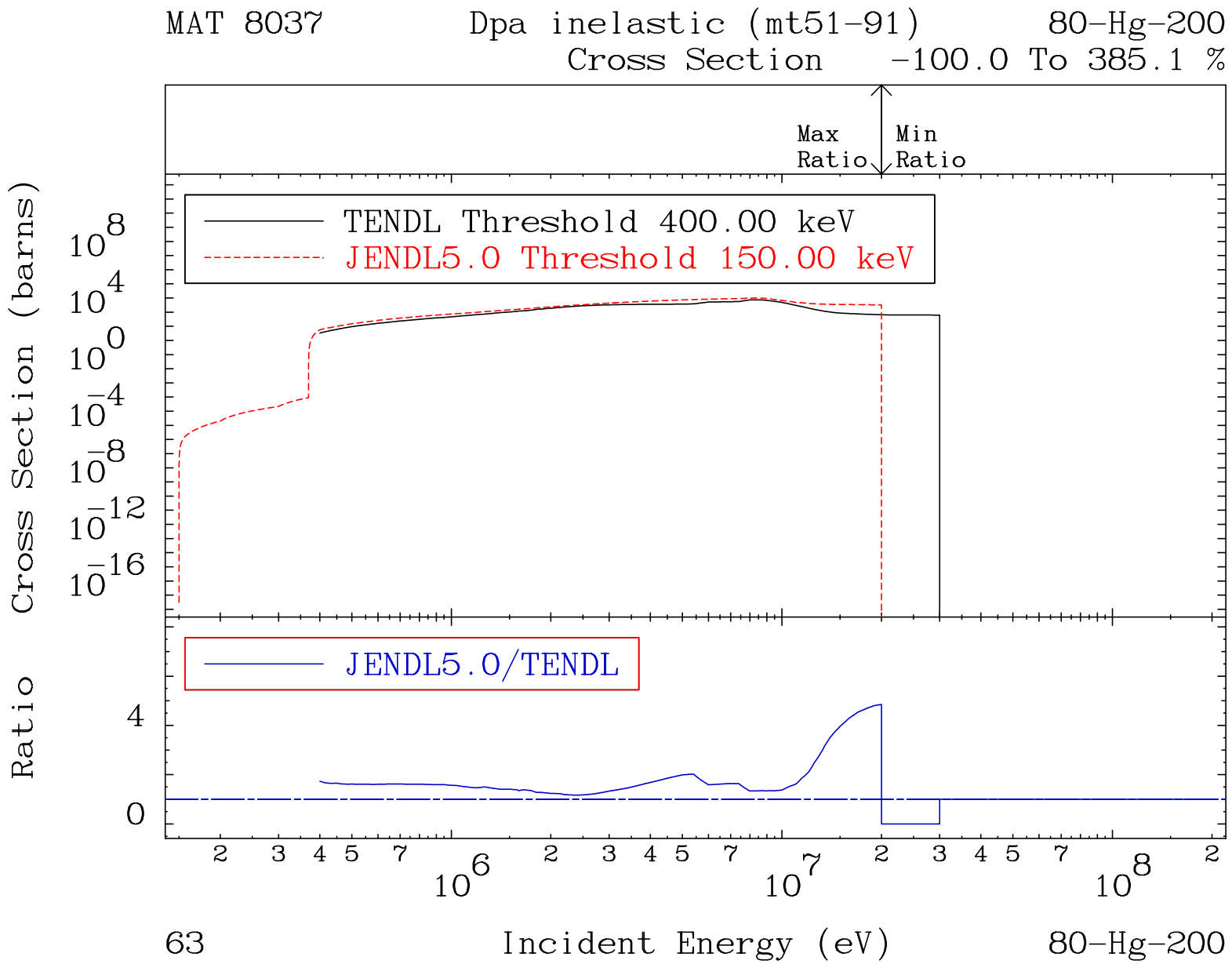

MAT 8037
Kerma capture (mt102)
80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
80-Hg-200

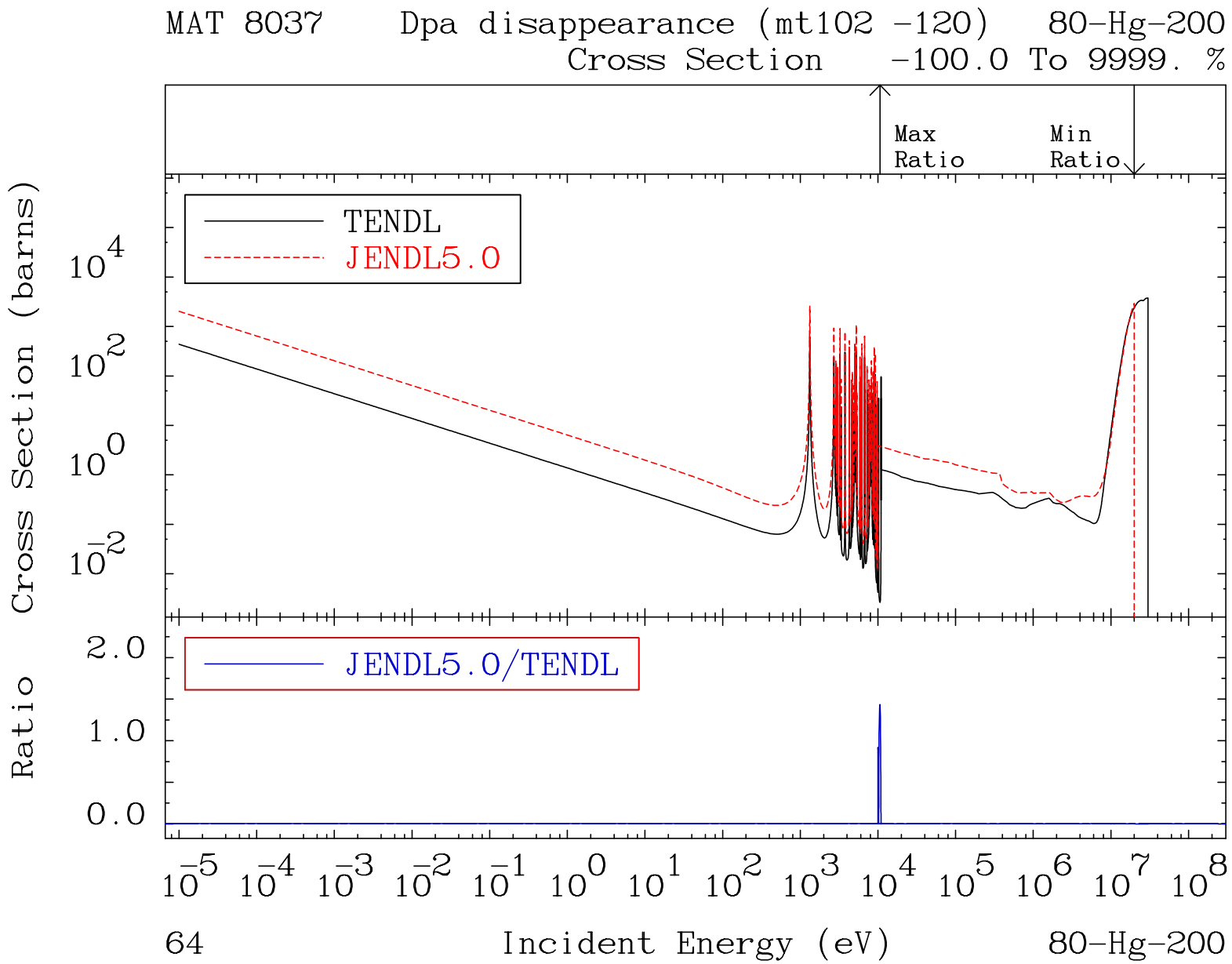

MAT 8037
Total photon (eV-barns)
80-Hg-200
Cross Section -109.8 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
800
600
400
200
0
120
60
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
59
Incident Energy (eV)
80-Hg-200

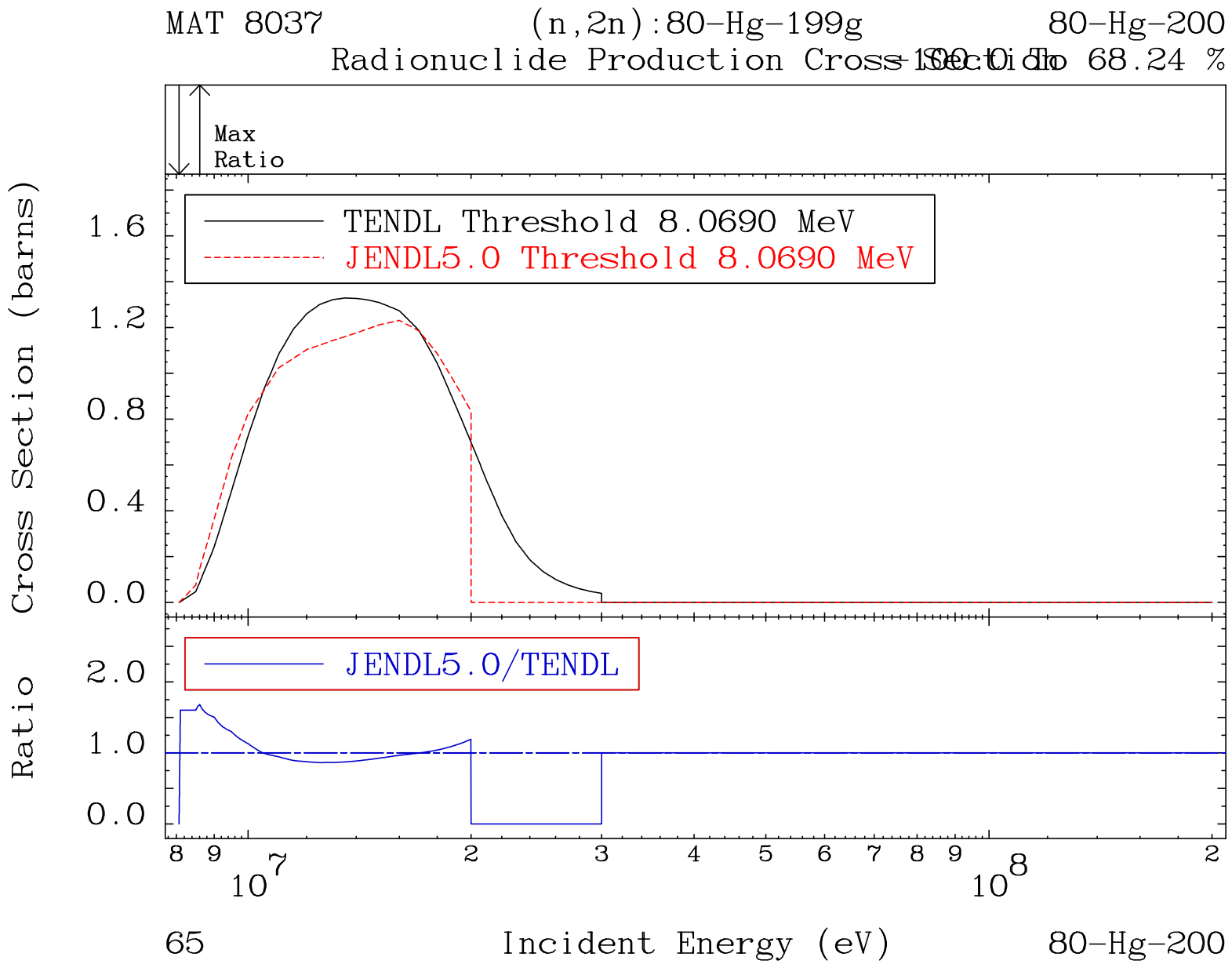

MAT 8037 Total kinematic kerma (high limit) 80-Hg-200
Cross Section -42.27 To 205.1 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
80-Hg-200

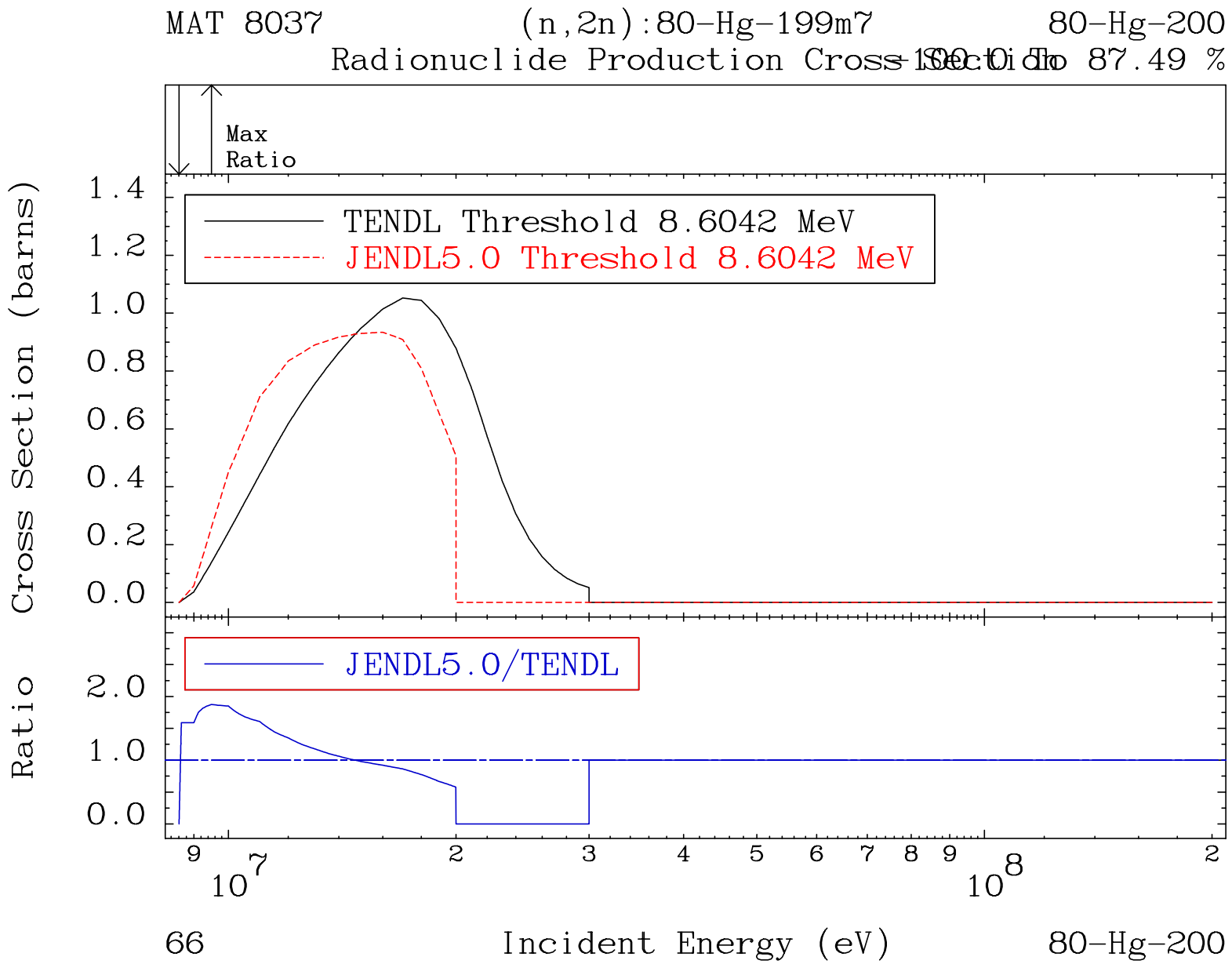

MAT 8037
Dpa total (eV-barns)
80-Hg-200
Cross Section
-33.43 To 363.5 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
80-Hg-200

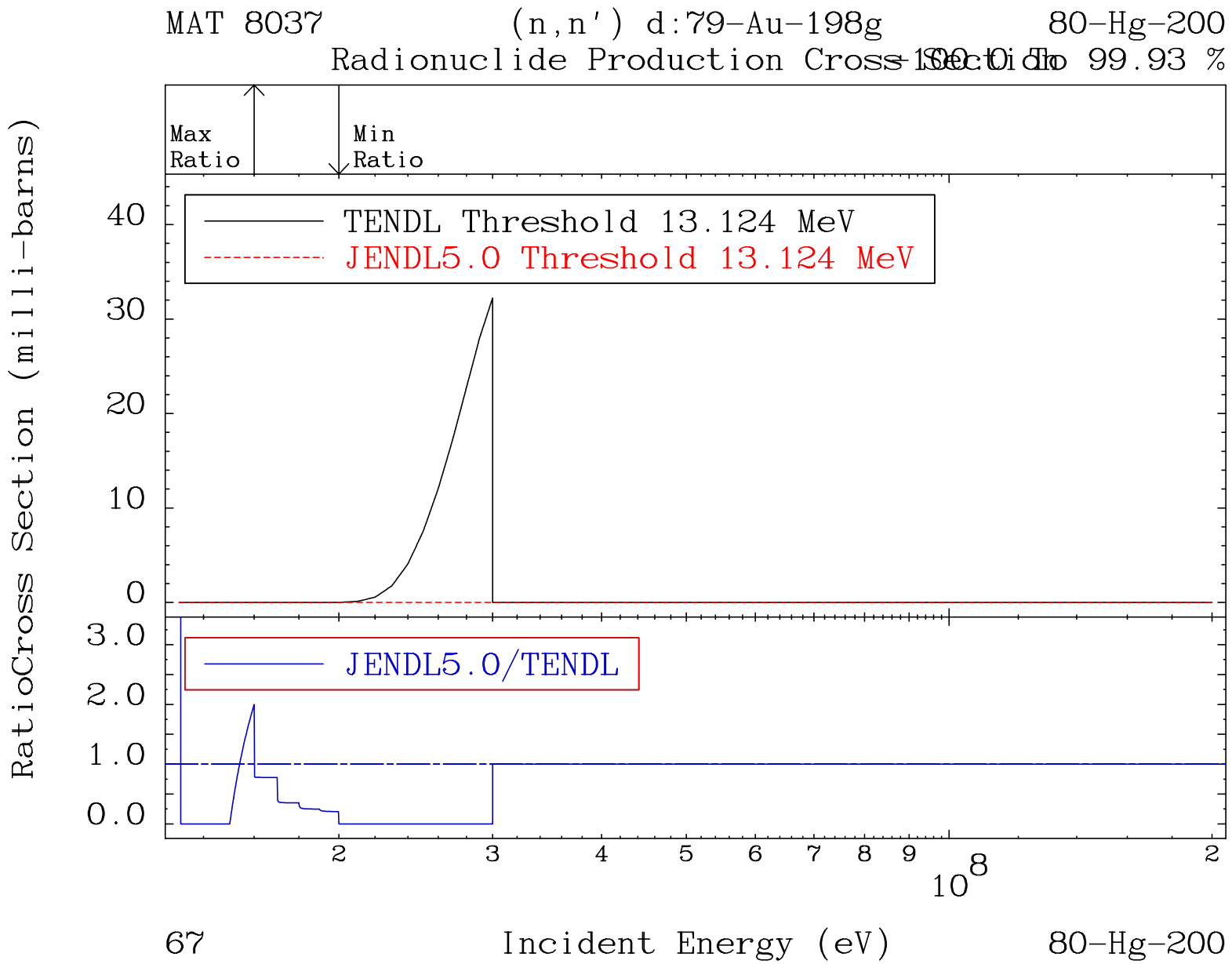

MAT 8037
Dpa elastic (mt2)
Cross Section
80-Hg-200
-95.28 To 6020. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2109 keV
JENDL5.0 Threshold 1.2124 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
80-Hg-200

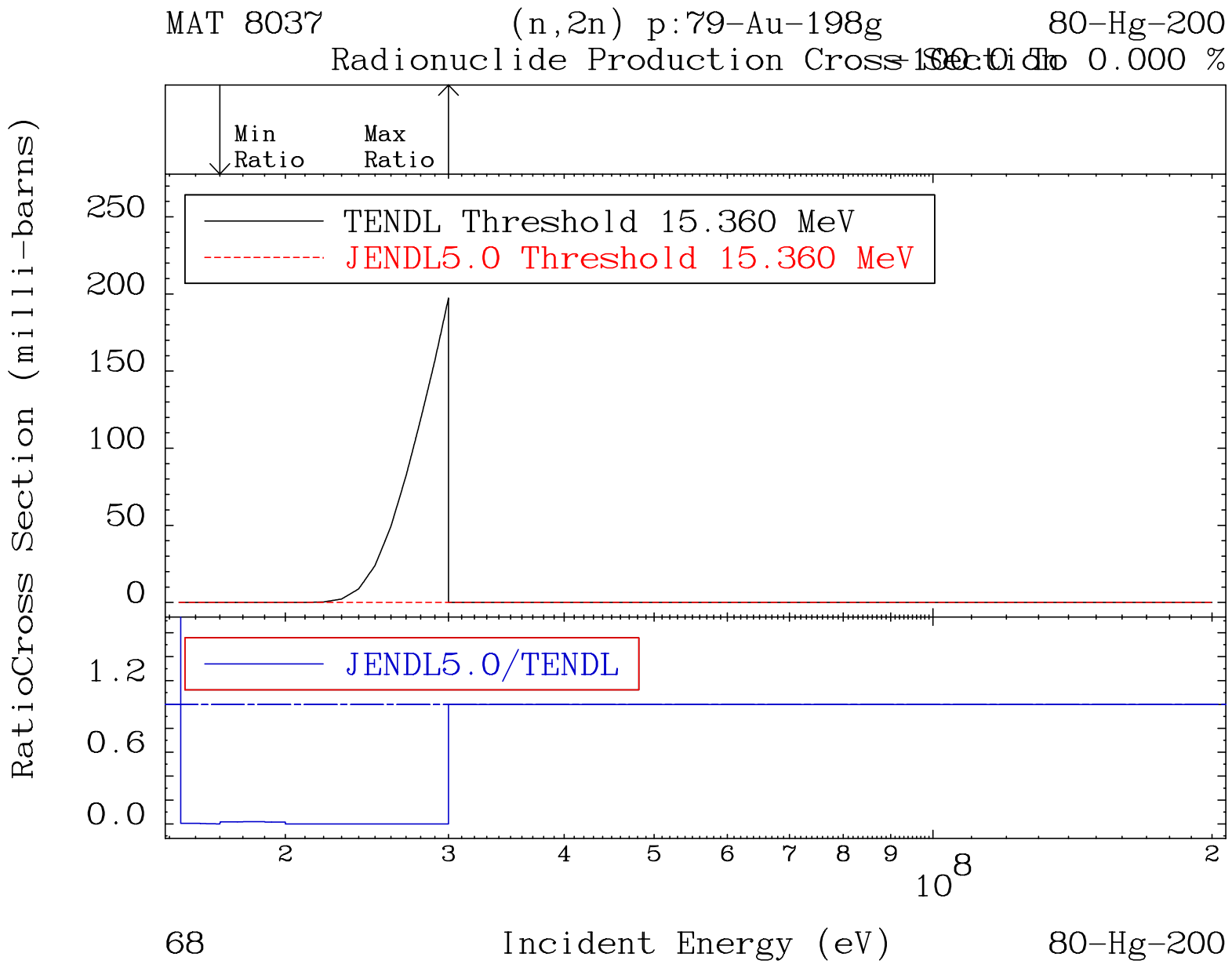

MAT 8037
Dpa inelastic (mt51-91)
80-Hg-200
Cross Section -100.0 To 385.1 %
Max Ratio
Min Ratio
TENDL Threshold 400.00 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
63
80-Hg-200

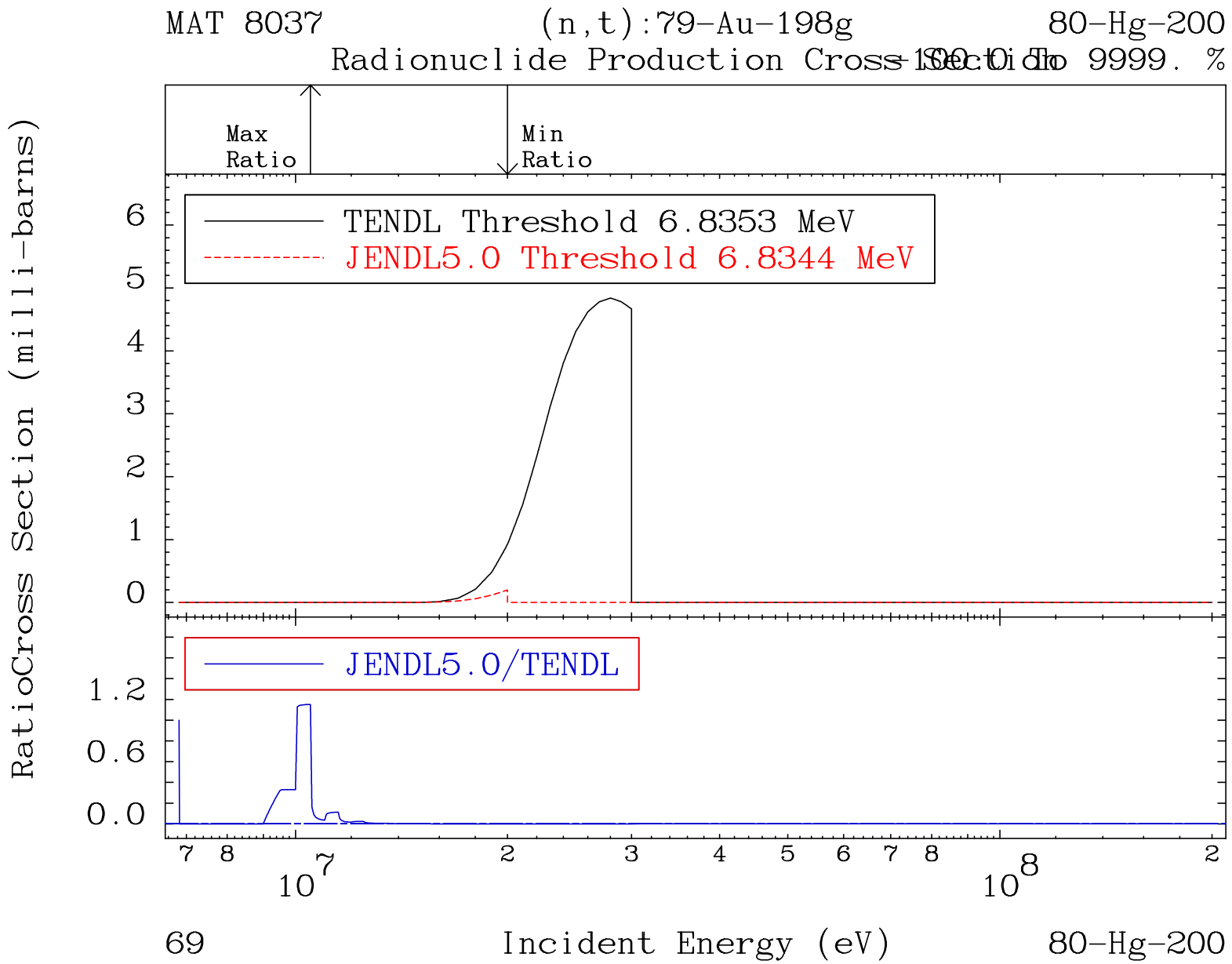

MAT 8037 Dpa disappearance (mt102 -120) 80-Hg-200
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
80-Hg-200


MAT 8037
(n,2n):80-Hg-199g
80-Hg-200
Radionuclide Production Cross Section To 68.24 %
Max
Ratio
TENDL Threshold 8.0690 MeV
JENDL5.0 Threshold 8.0690 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2.0
1.0
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
80-Hg-200


MAT 8037
(n,2n):80-Hg-199m7
80-Hg-200
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.6042 MeV
JENDL5.0 Threshold 8.6042 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
80-Hg-200


MAT 8037
(n,n') d:79-Au-198g
80-Hg-200
Radionuclide Production Cross Section To 99.93 %
Max Ratio
Min Ratio
TENDL Threshold 13.124 MeV
JENDL5.0 Threshold 13.124 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
67
Incident Energy (eV)
80-Hg-200


MAT 8037
(n,2n) p:79-Au-198g
80-Hg-200
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.360 MeV
JENDL5.0 Threshold 15.360 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
68
80-Hg-200


MAT 8037
(n,t):79-Au-198g
80-Hg-200
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 6.8353 MeV
JENDL5.0 Threshold 6.8344 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
80-Hg-200