Program Complot
(Version 2021-1)
by
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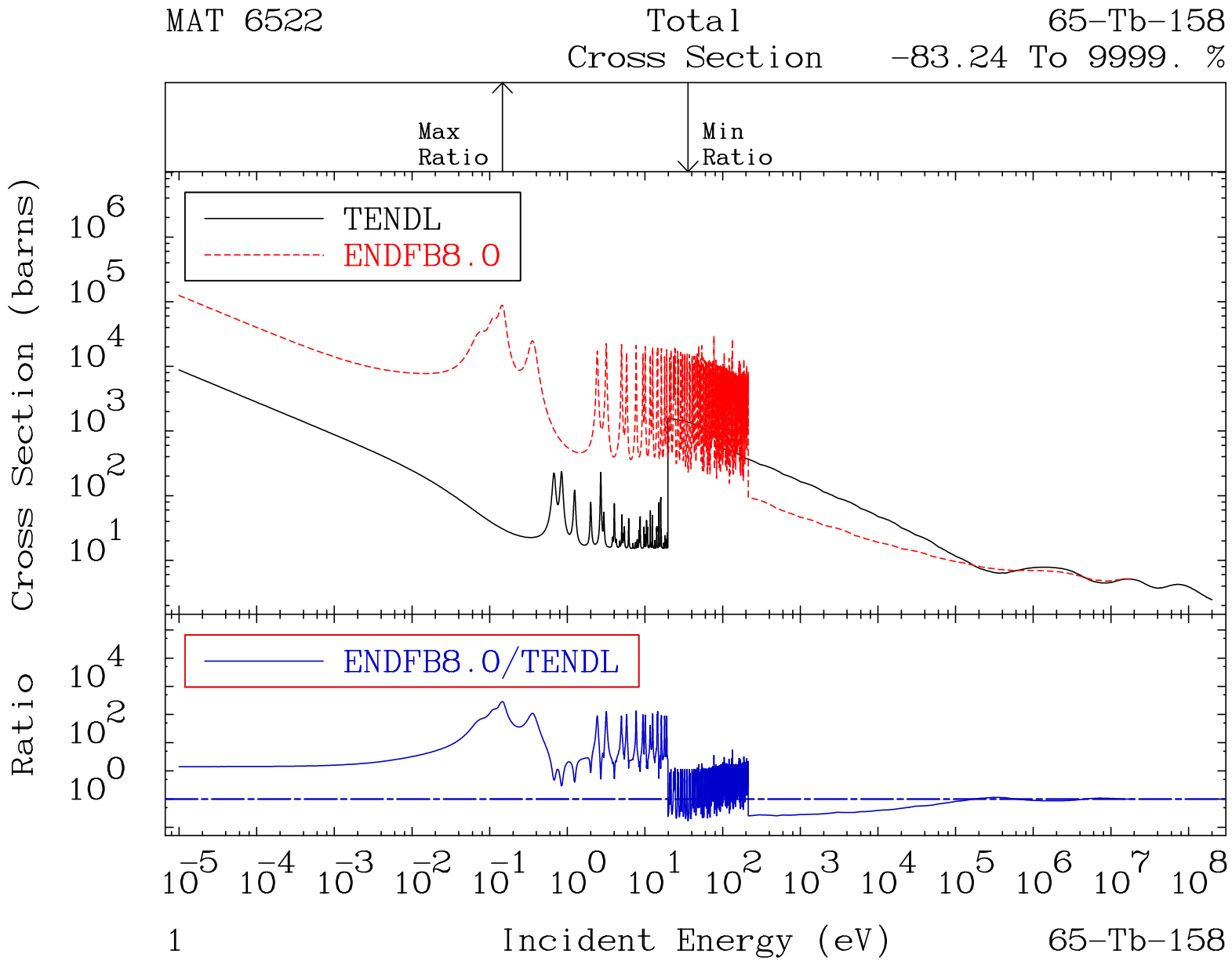
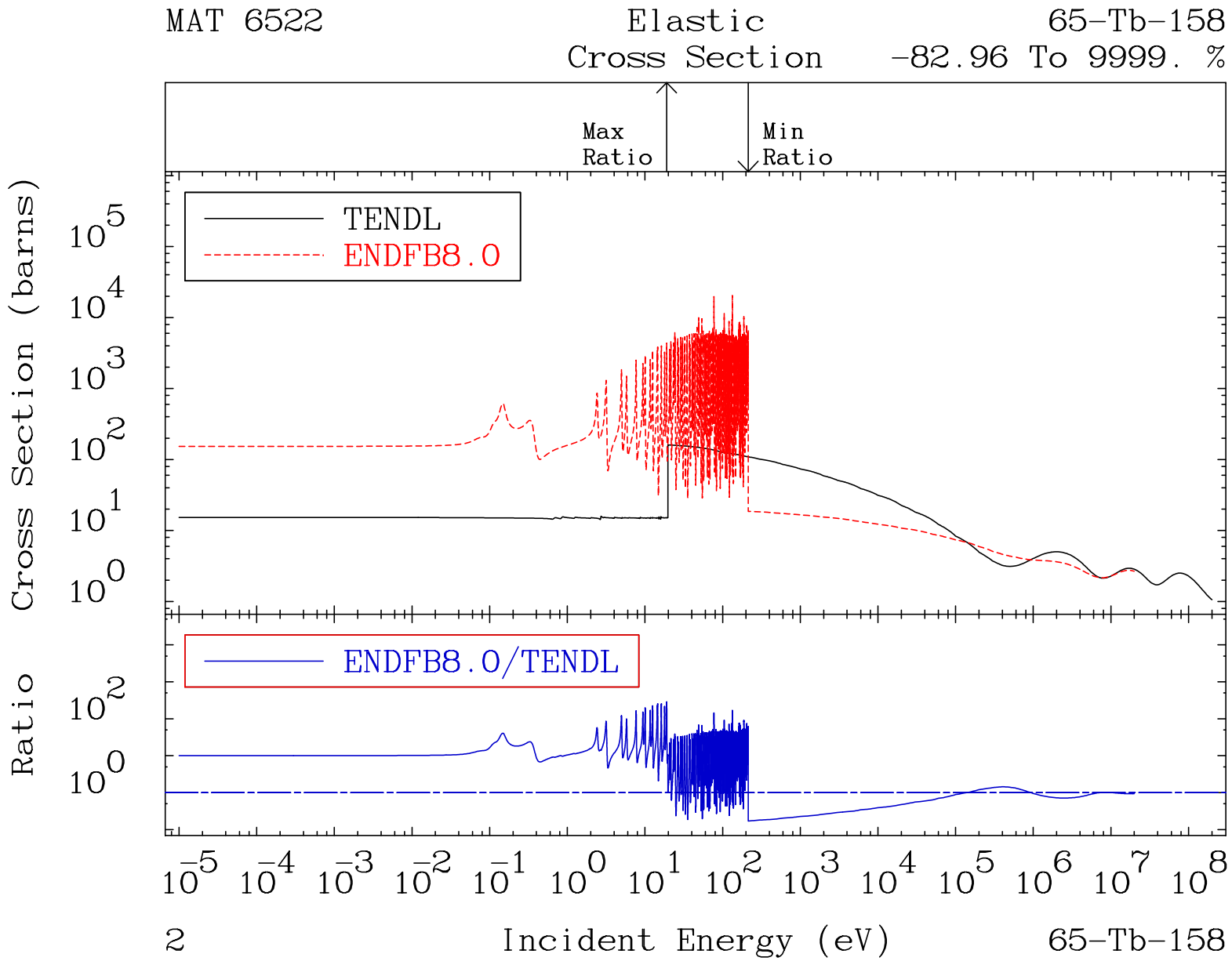
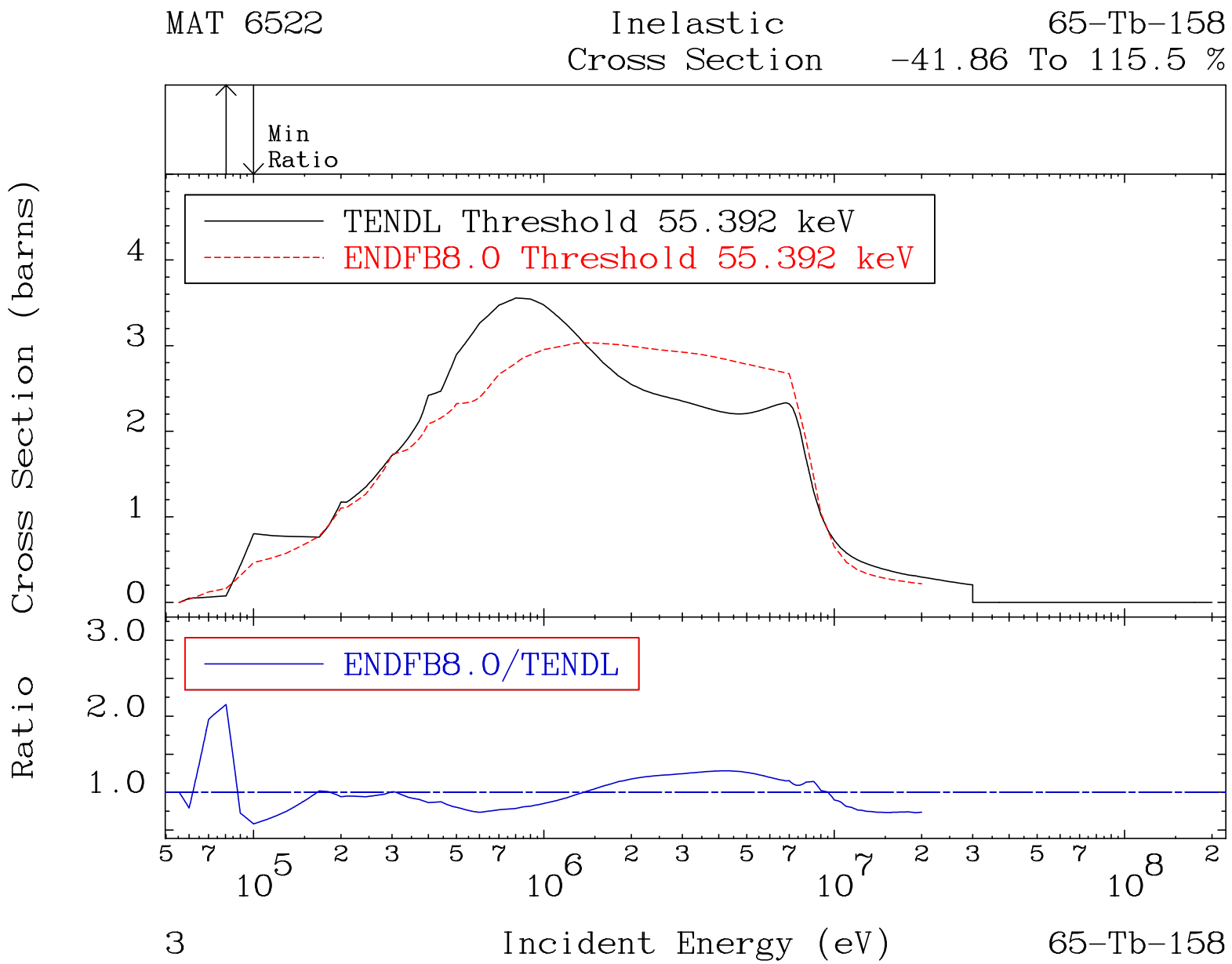
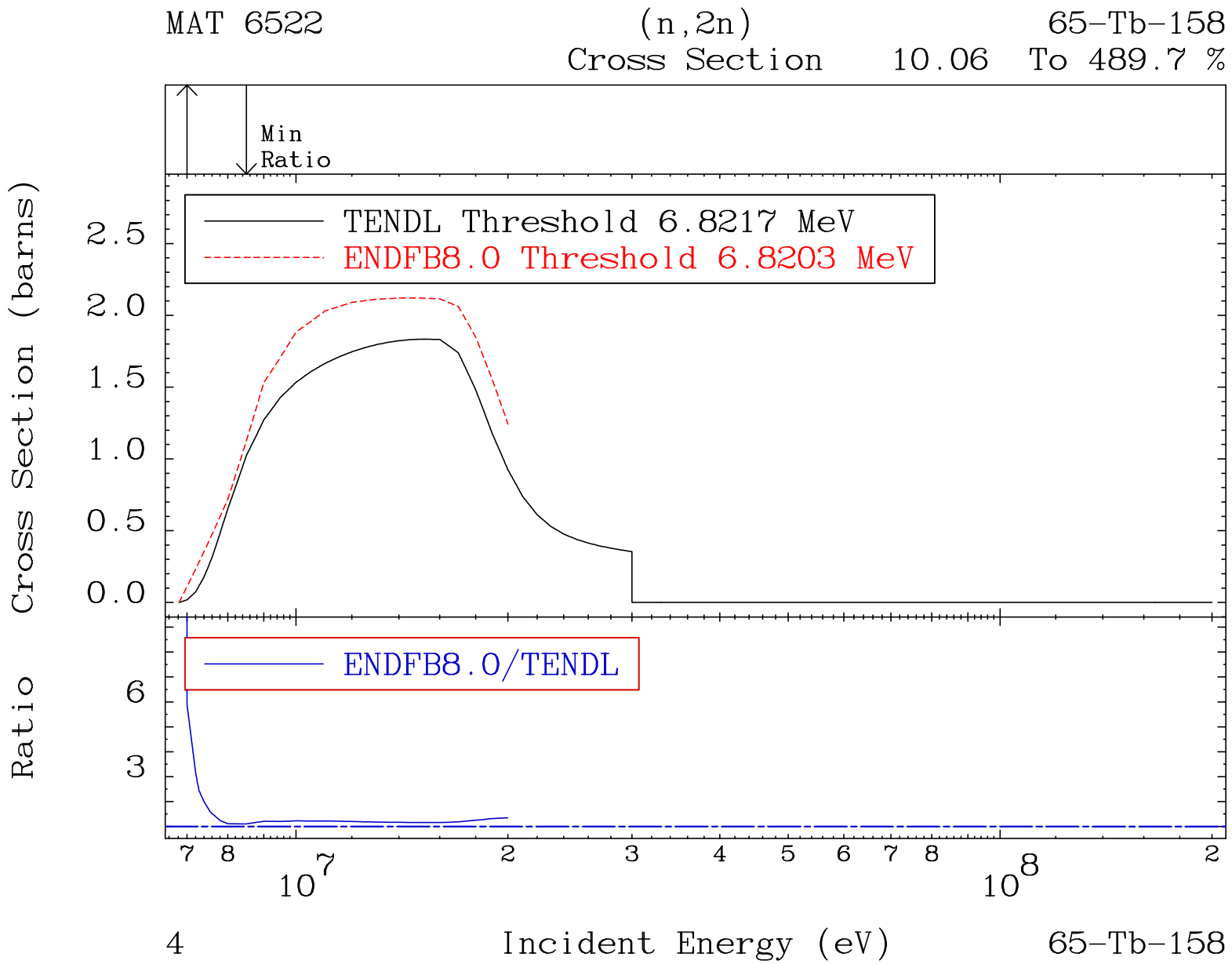
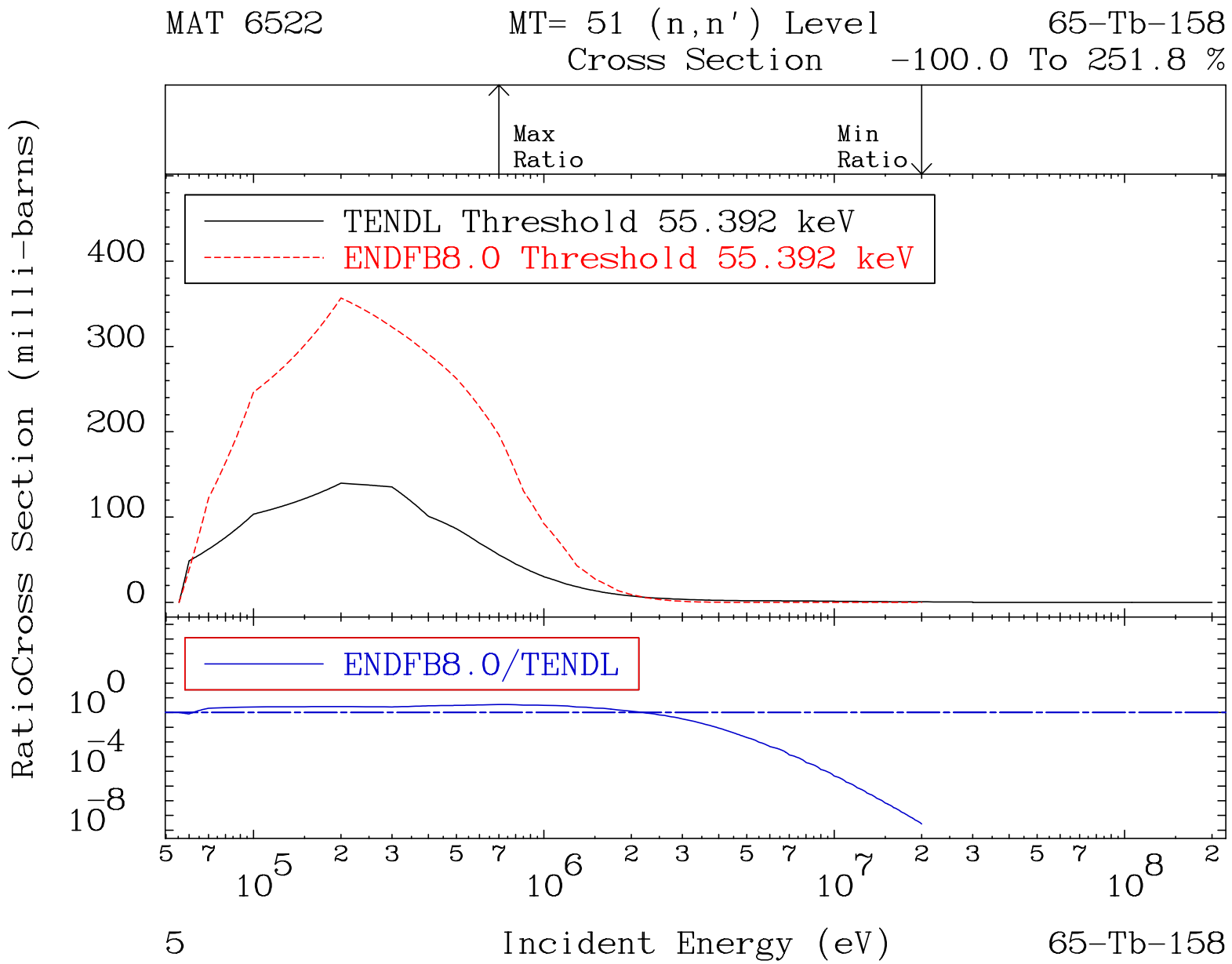
Press Mouse Button to Start

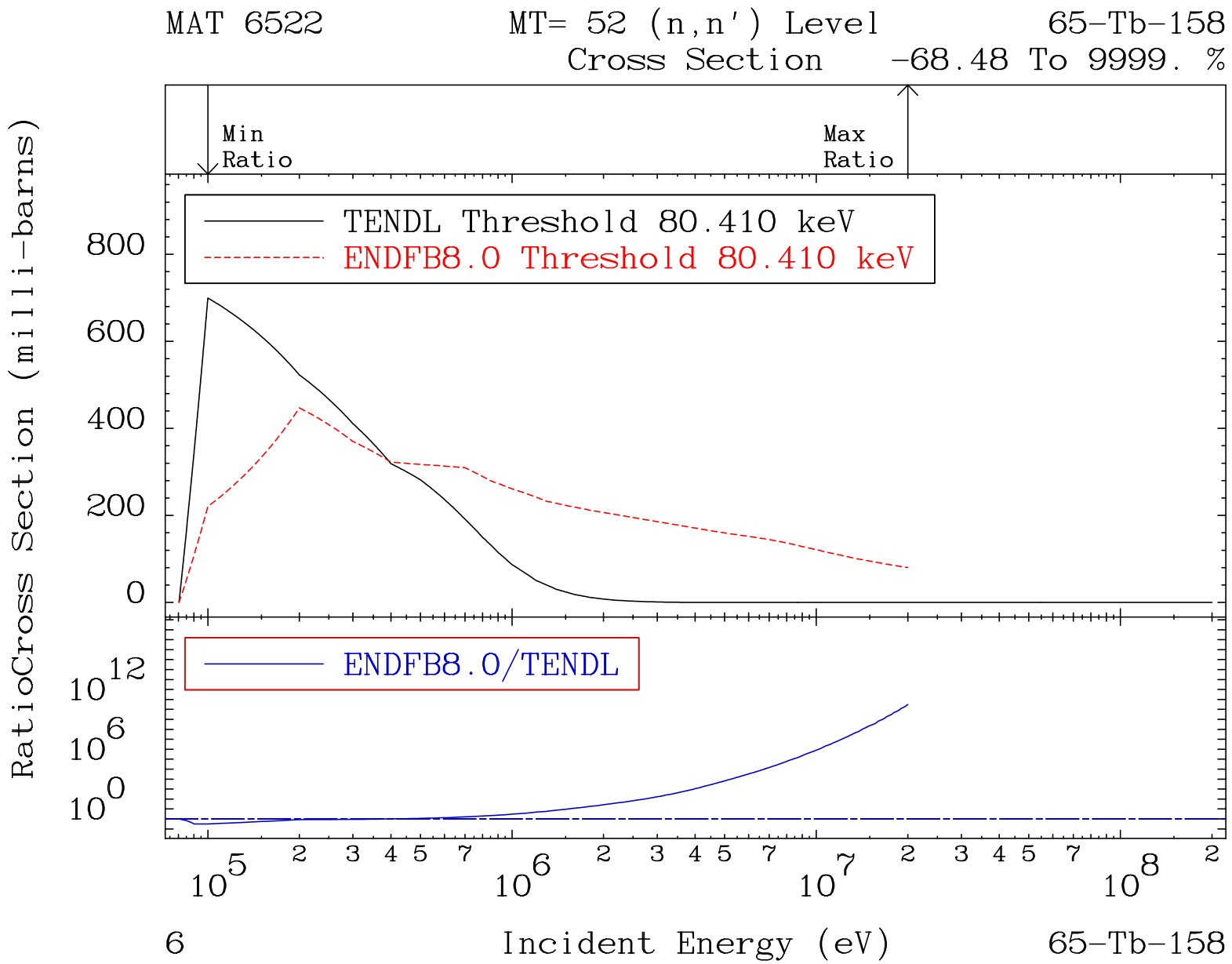

MAT 6522
Total
Cross Section
65-Tb-158
-83.24 To 9999. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
1
65-Tb-158

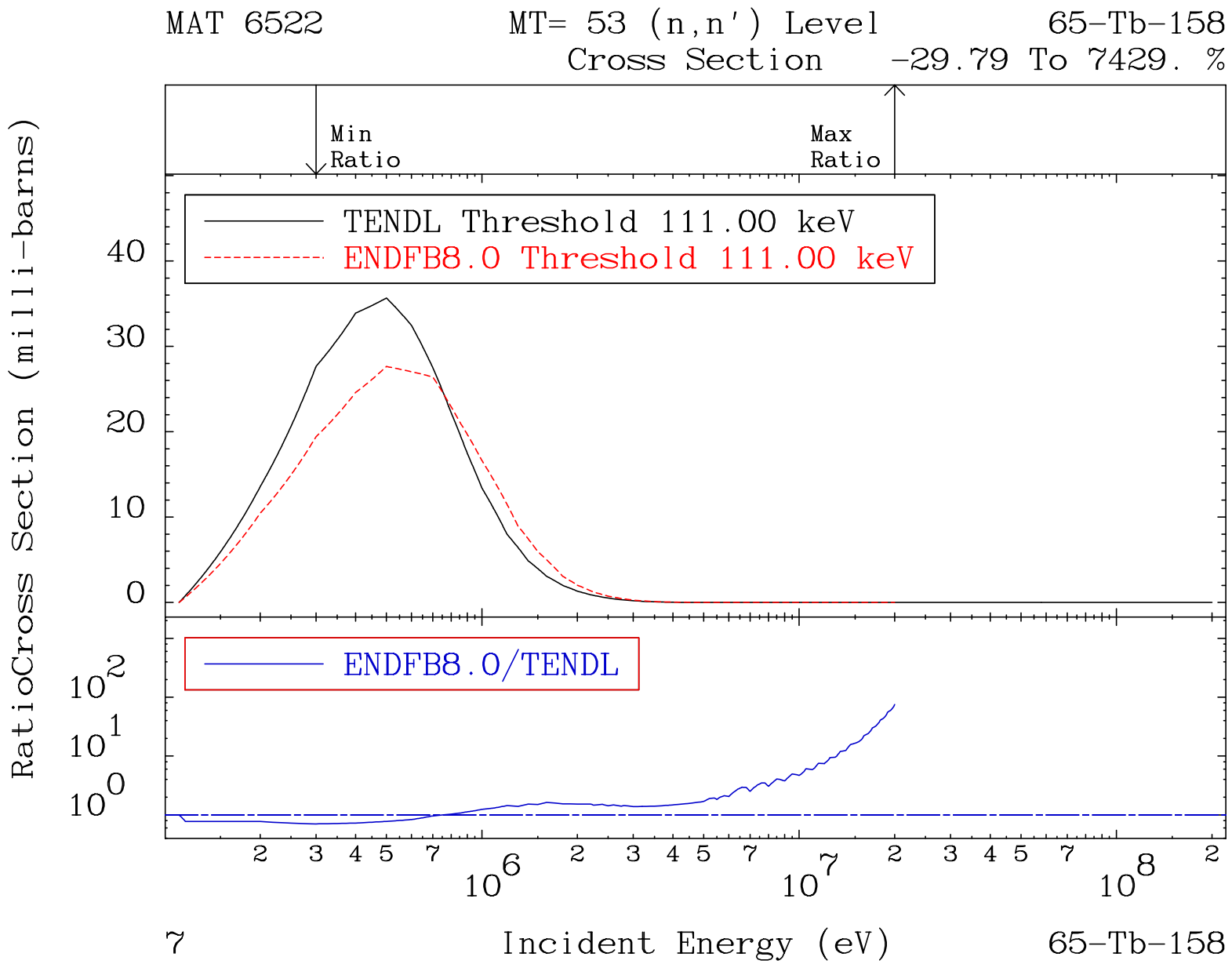

MAT 6522
Elastic
Cross Section
65-Tb-158
-82.96 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
65-Tb-158

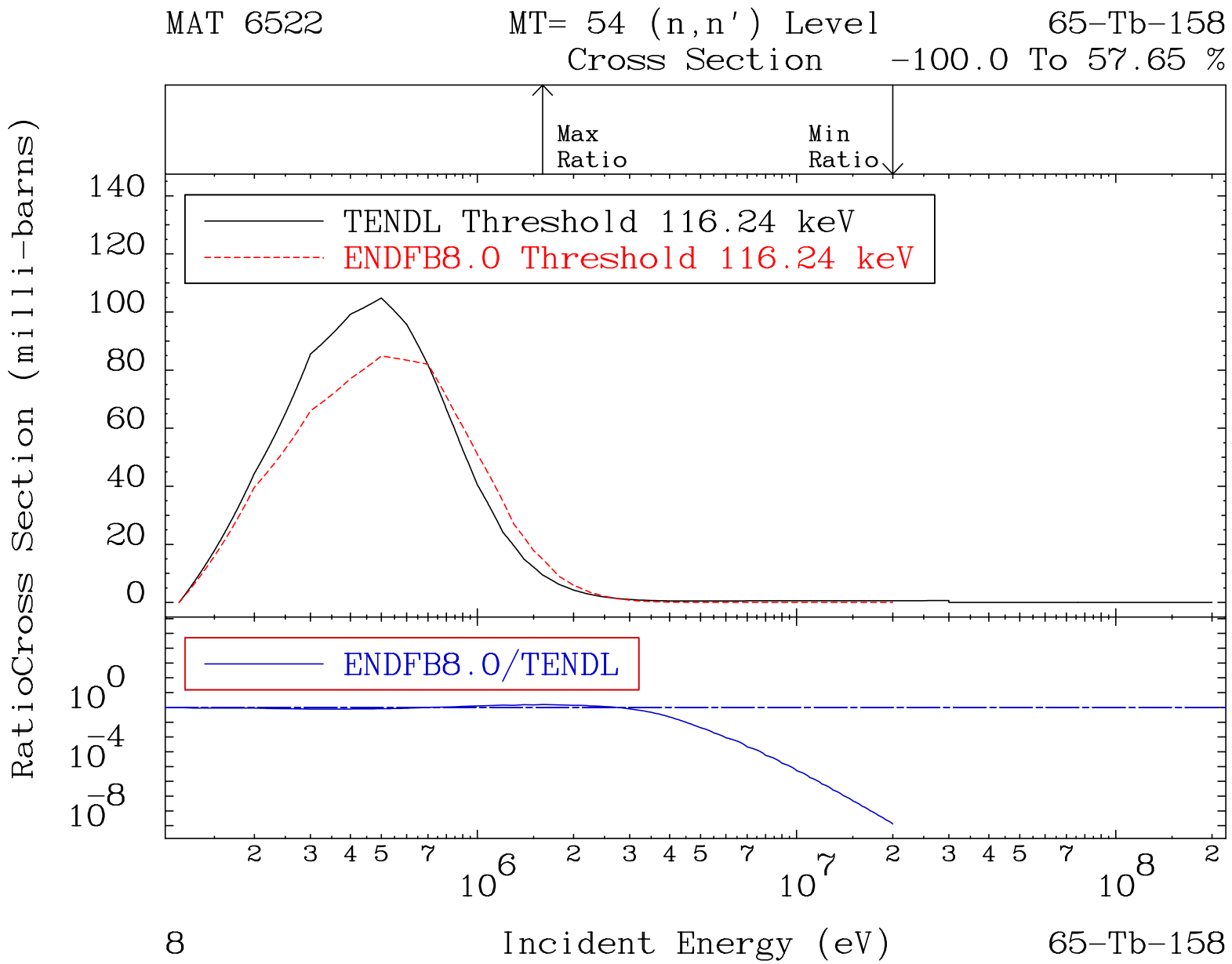

MAT 6522
Inelastic
Cross Section
65-Tb-158
-41.86 To 115.5 %
Min
Ratio
TENDL Threshold 55.392 keV
ENDFB8.0 Threshold 55.392 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65-Tb-158
3

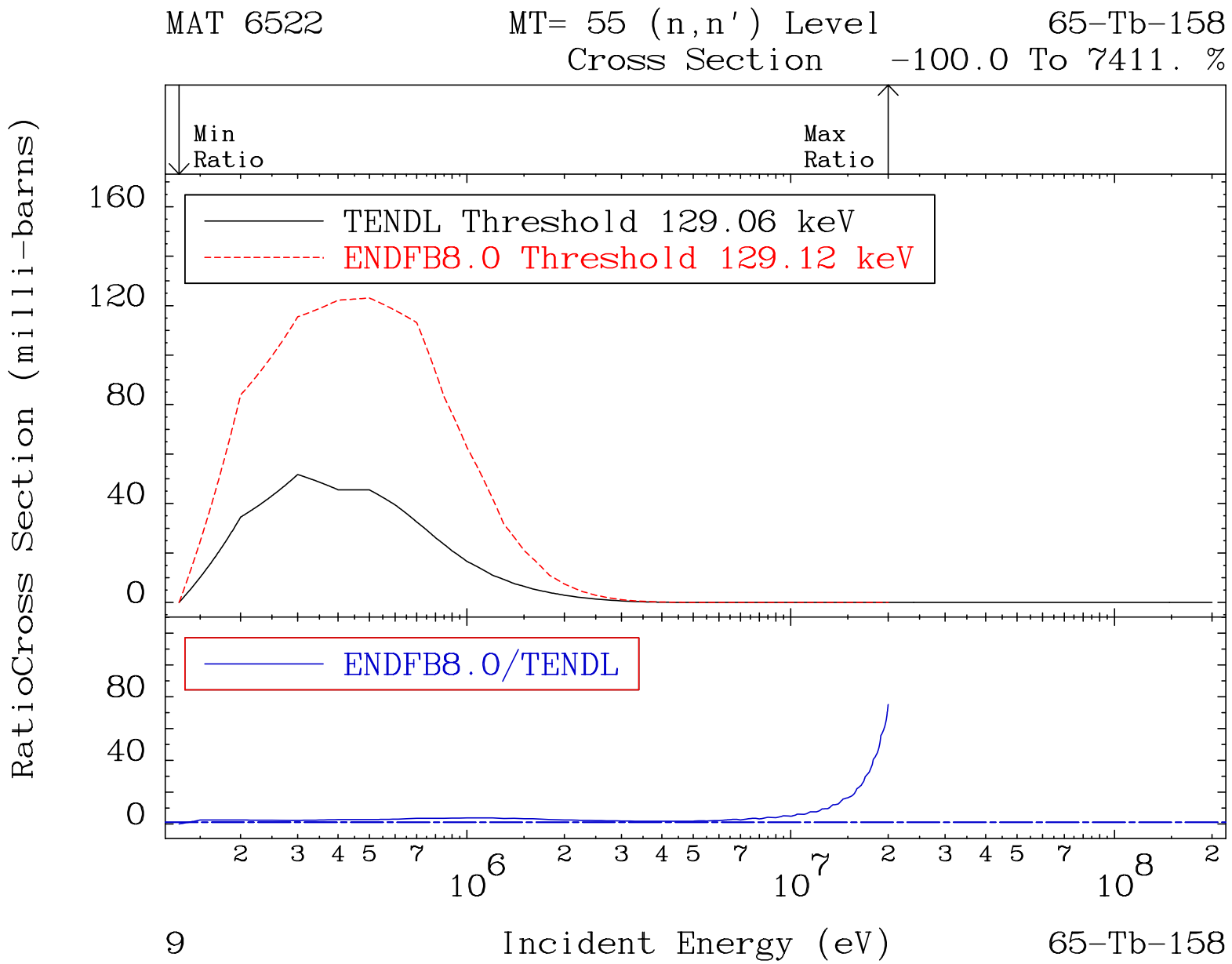

MAT 6522
(n,2n)
65-Tb-158
Cross Section 10.06 To 489.7 %
Min
Ratio
TENDL Threshold 6.8217 MeV
ENDFB8.0 Threshold 6.8203 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
6
3
7 8
10^7
2 3 4 5 6 7 8
10^8
2
4
Incident Energy (eV)
65-Tb-158

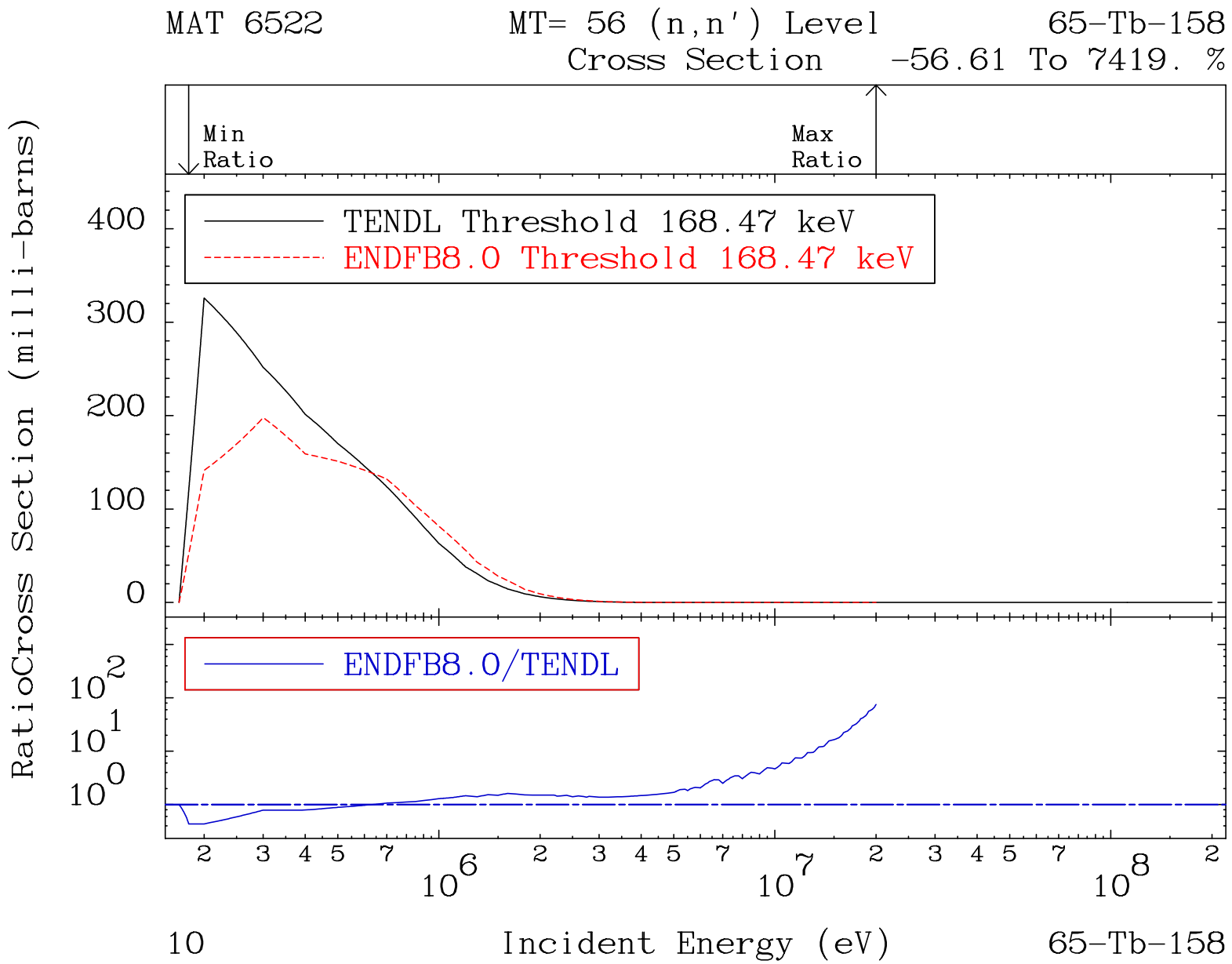

MAT 6522
MT= 51 (n,n') Level
65-Tb-158
Cross Section -100.0 To 251.8 %
Max Ratio
Min Ratio
TENDL Threshold 55.392 keV
ENDFB8.0 Threshold 55.392 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65-Tb-158

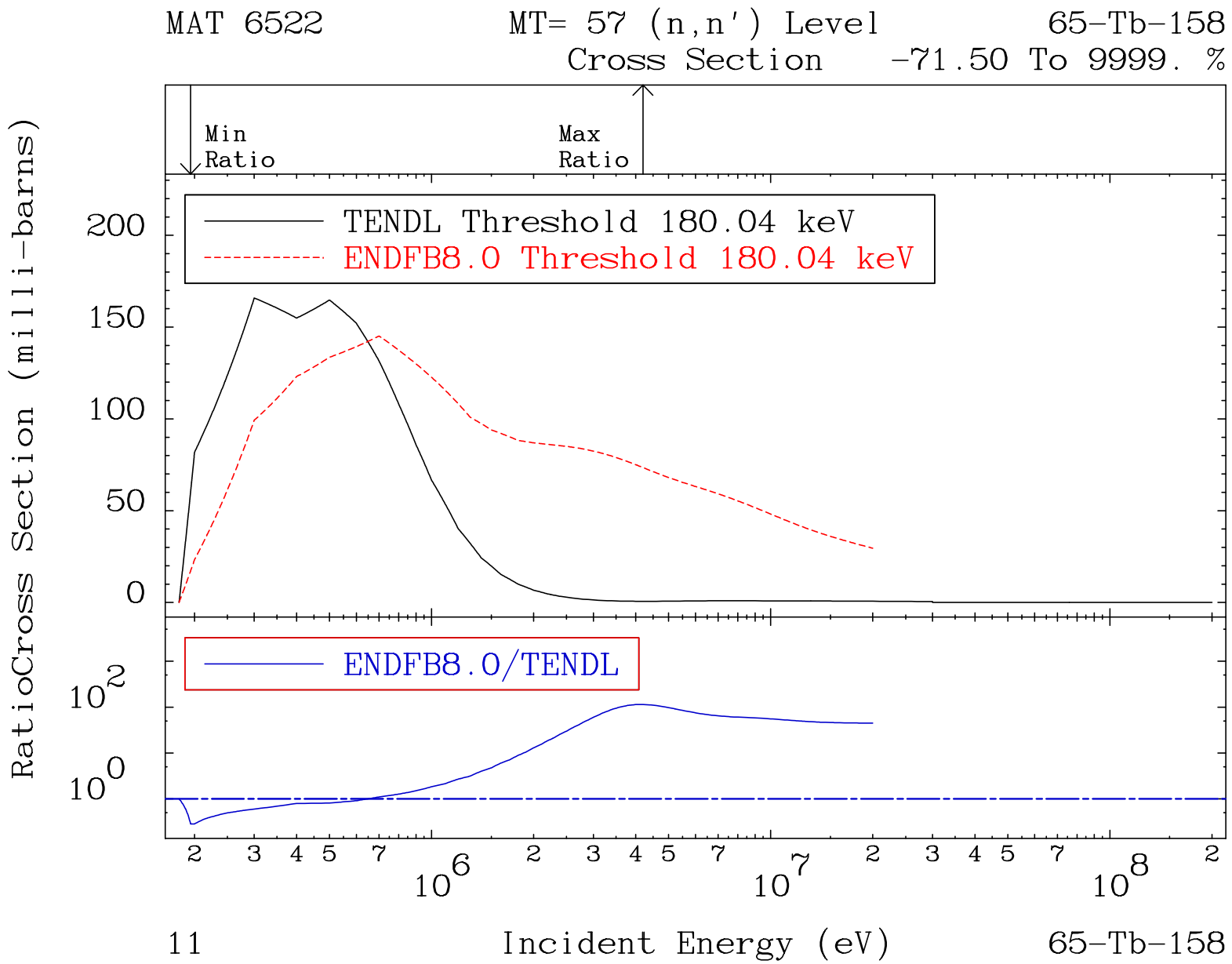

MAT 6522
MT= 52 (n,n') Level
65-Tb-158
Cross Section -68.48 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 80.410 keV
ENDFB8.0 Threshold 80.410 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
10^12
10^6
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
6
65-Tb-158

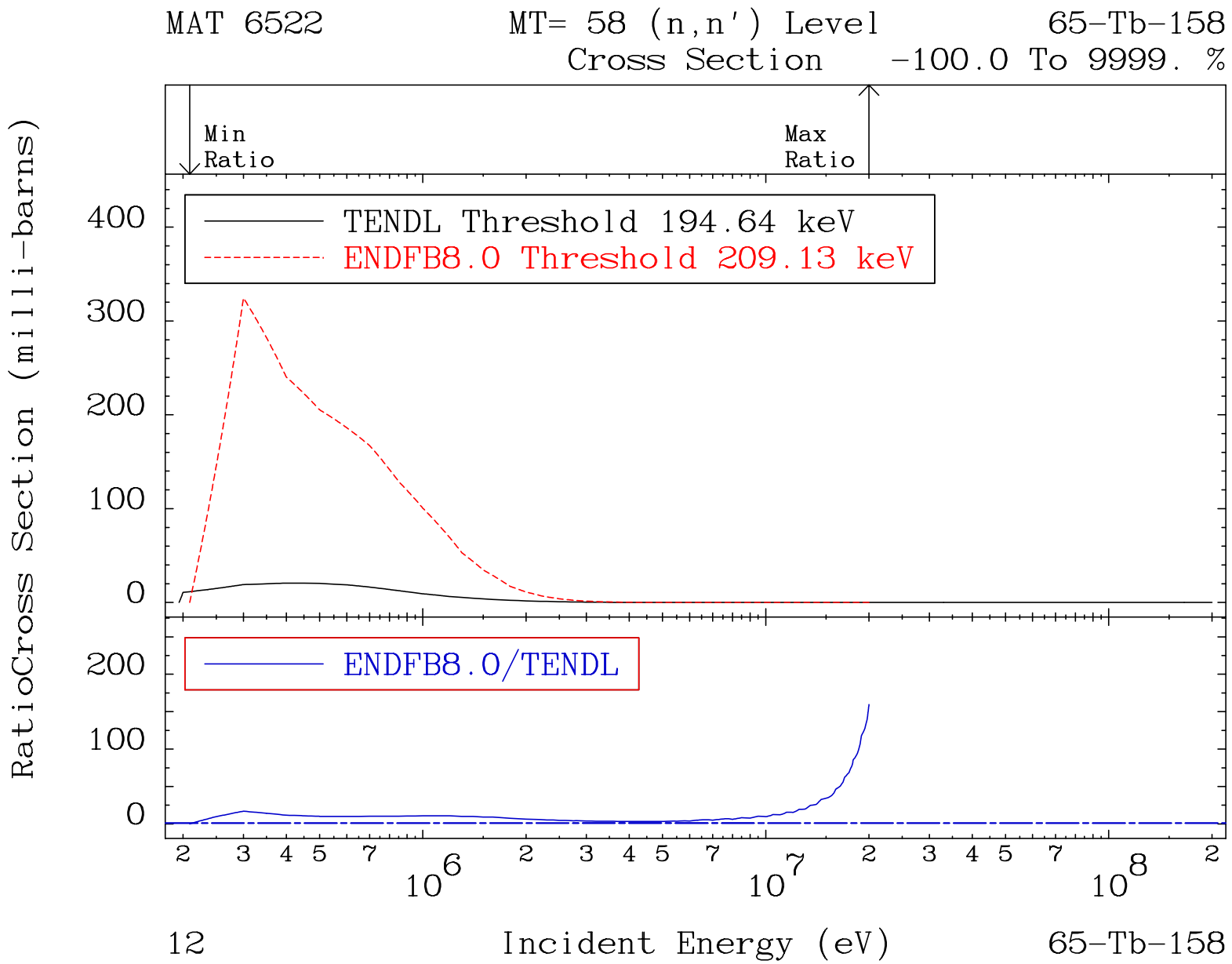

MAT 6522
MT= 53 (n,n') Level
65-Tb-158
Cross Section -29.79 To 7429. %
Min Ratio
Max Ratio
TENDL Threshold 111.00 keV
ENDFB8.0 Threshold 111.00 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65-Tb-158

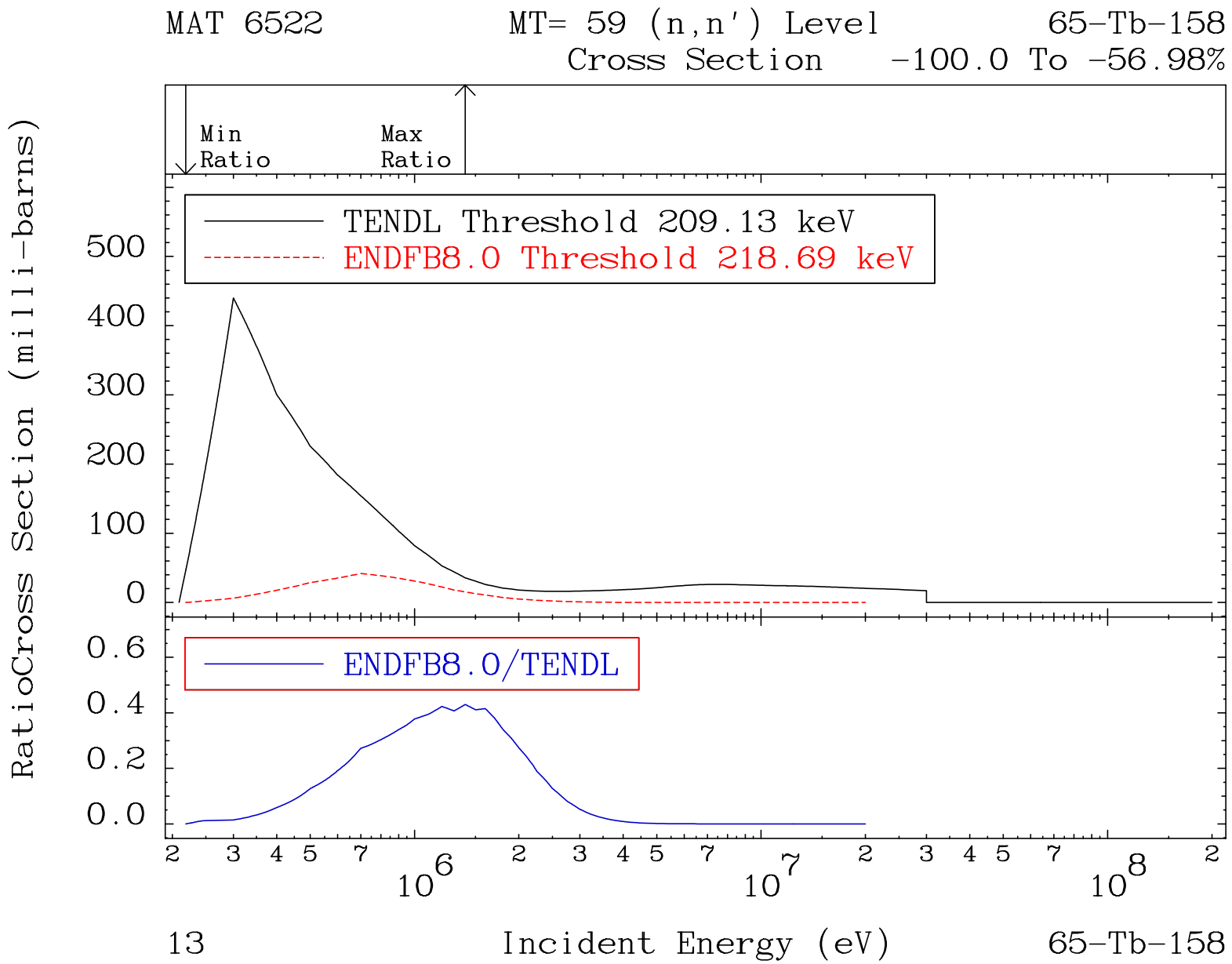

MAT 6522
MT= 54 (n,n') Level
65-Tb-158
Cross Section -100.0 To 57.65 %
Max Ratio
Min Ratio
TENDL Threshold 116.24 keV
ENDFB8.0 Threshold 116.24 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
8
65-Tb-158

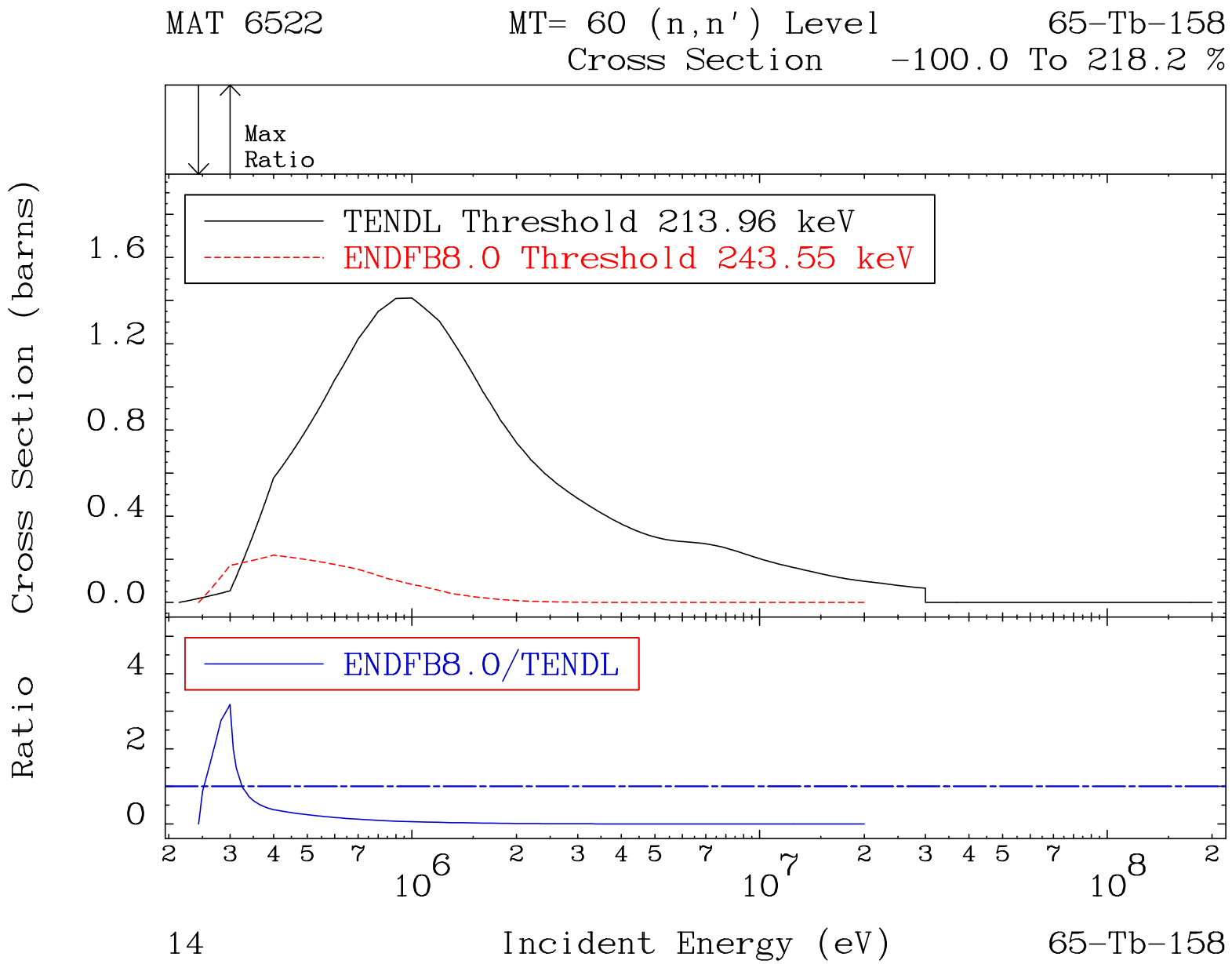

MAT 6522
MT= 55 (n,n') Level
65-Tb-158
Cross Section -100.0 To 7411. %
Min Ratio
Max Ratio
TENDL Threshold 129.06 keV
ENDFB8.0 Threshold 129.12 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
80
40
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
9
Incident Energy (eV)
65-Tb-158

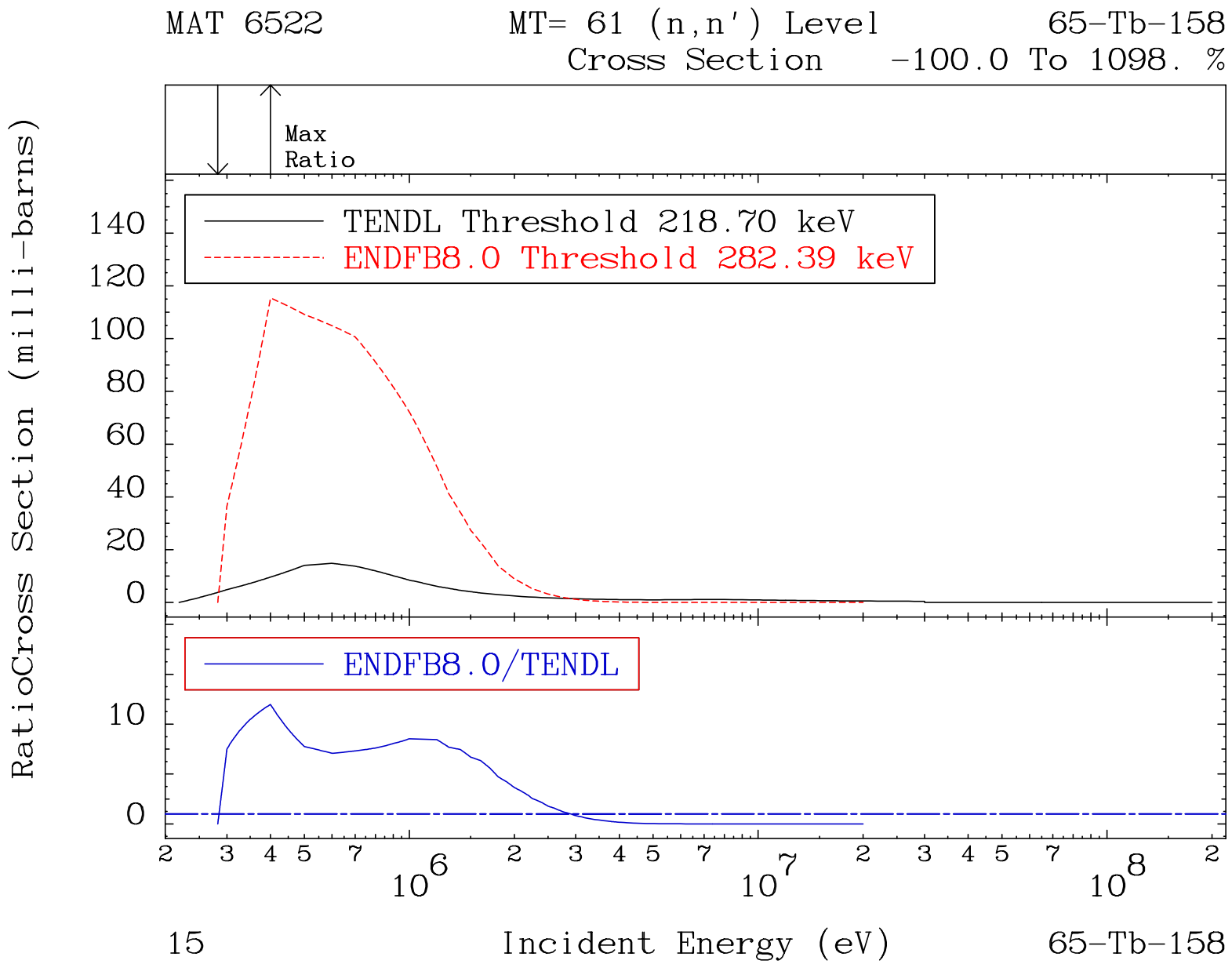

MAT 6522
MT= 56 (n,n') Level
65-Tb-158
Cross Section -56.61 To 7419. %
Min Ratio
Max Ratio
TENDL Threshold 168.47 keV
ENDFB8.0 Threshold 168.47 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10
65-Tb-158

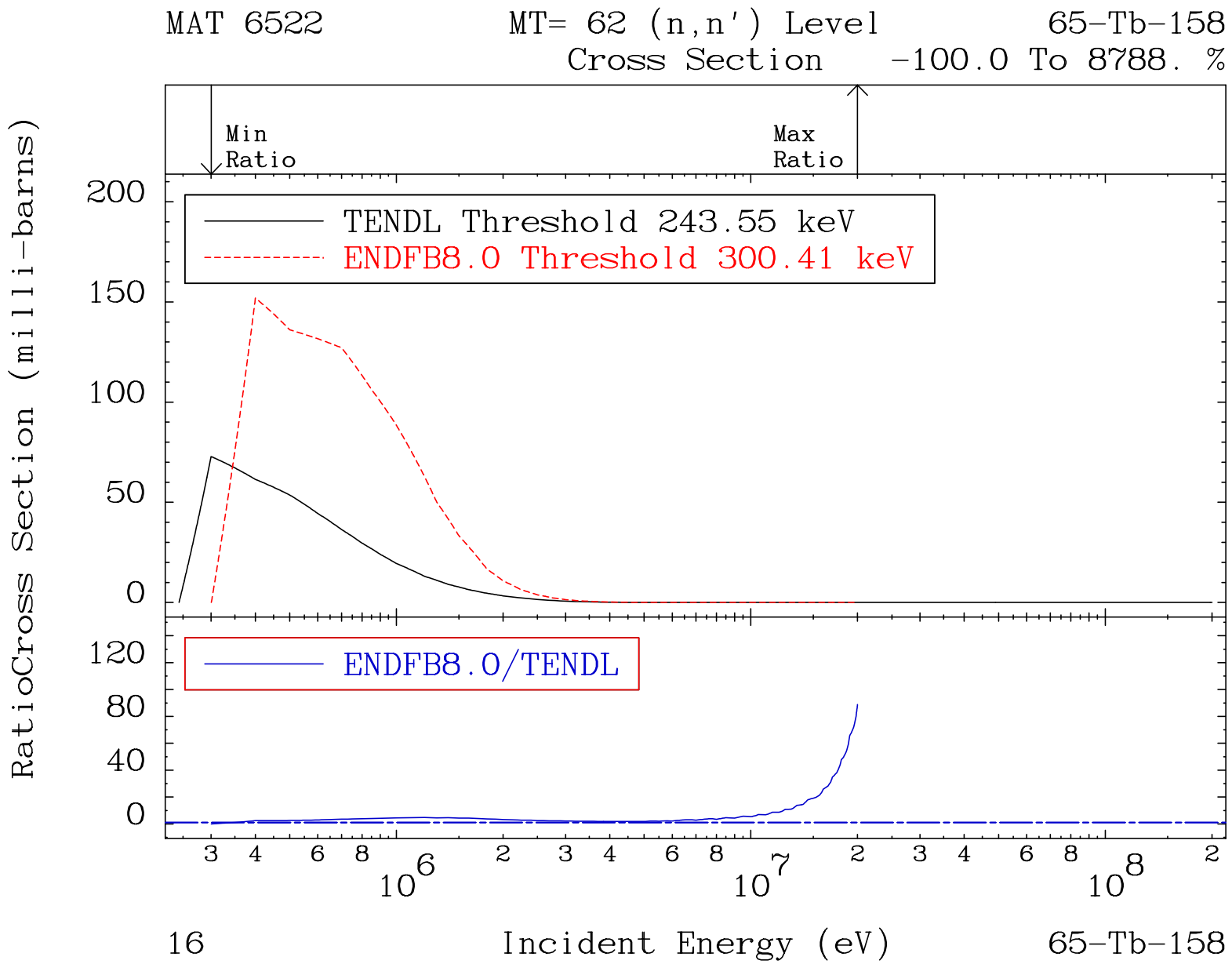

MAT 6522
MT= 57 (n,n') Level
65-Tb-158
Cross Section -71.50 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 180.04 keV
ENDFB8.0 Threshold 180.04 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^2
10^0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
11
Incident Energy (eV)
65-Tb-158

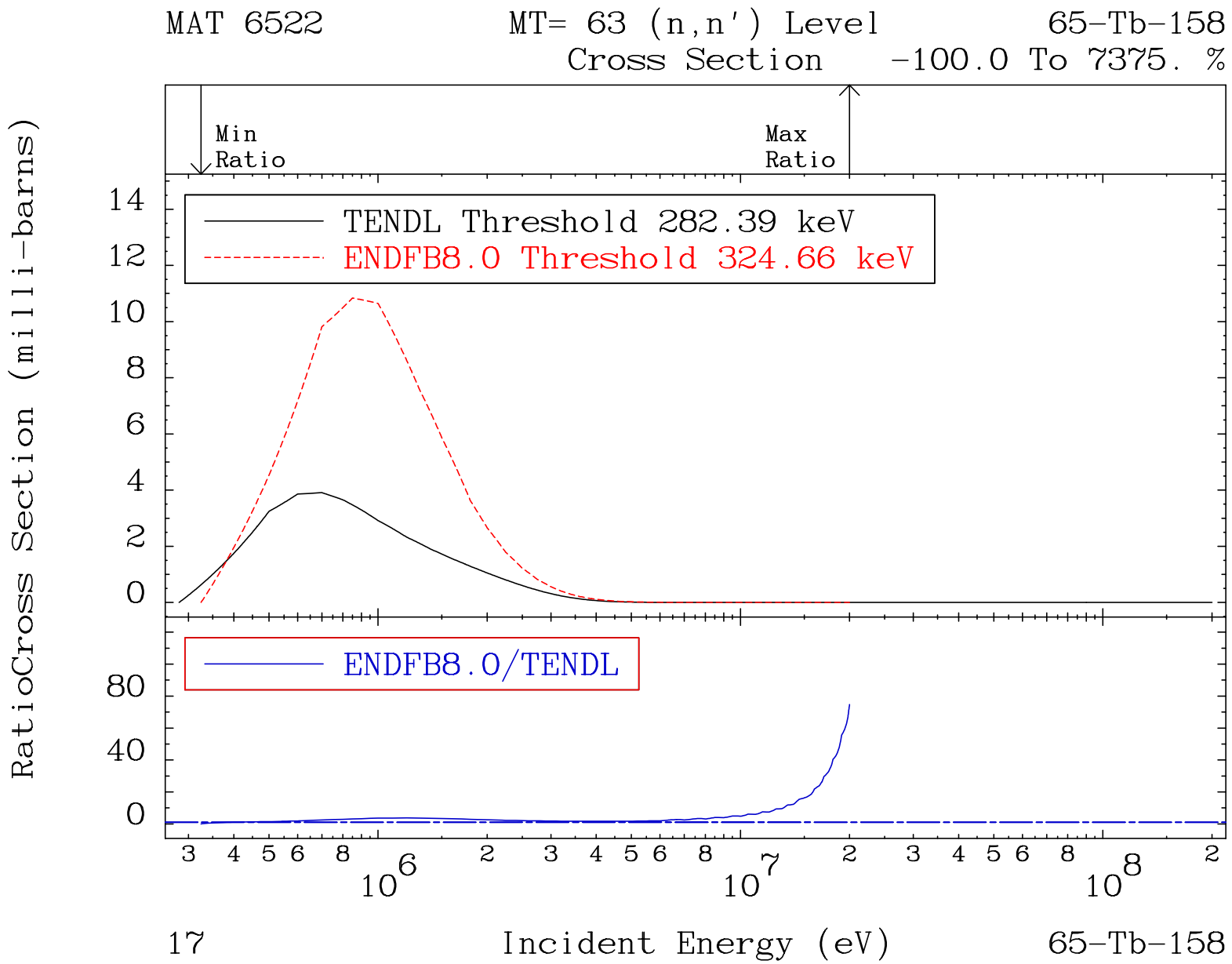

MAT 6522
MT= 58 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 194.64 keV
ENDFB8.0 Threshold 209.13 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
200
100
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
12
Incident Energy (eV)
65-Tb-158

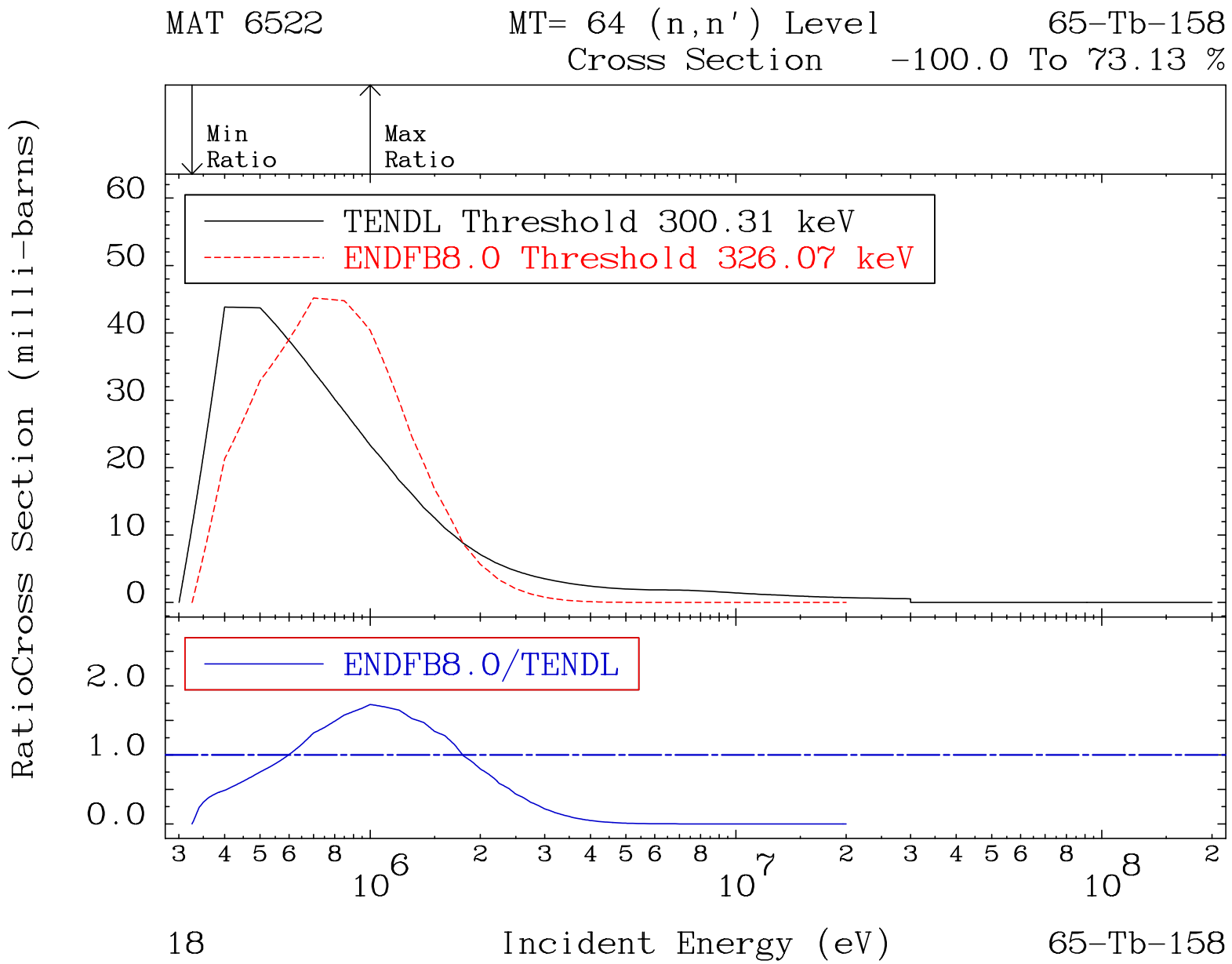

MAT 6522
MT= 59 (n,n') Level
65-Tb-158
Cross Section -100.0 To -56.98%
Min Ratio
Max Ratio
TENDL Threshold 209.13 keV
ENDFB8.0 Threshold 218.69 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
0.6
0.4
0.2
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
13
Incident Energy (eV)
65-Tb-158

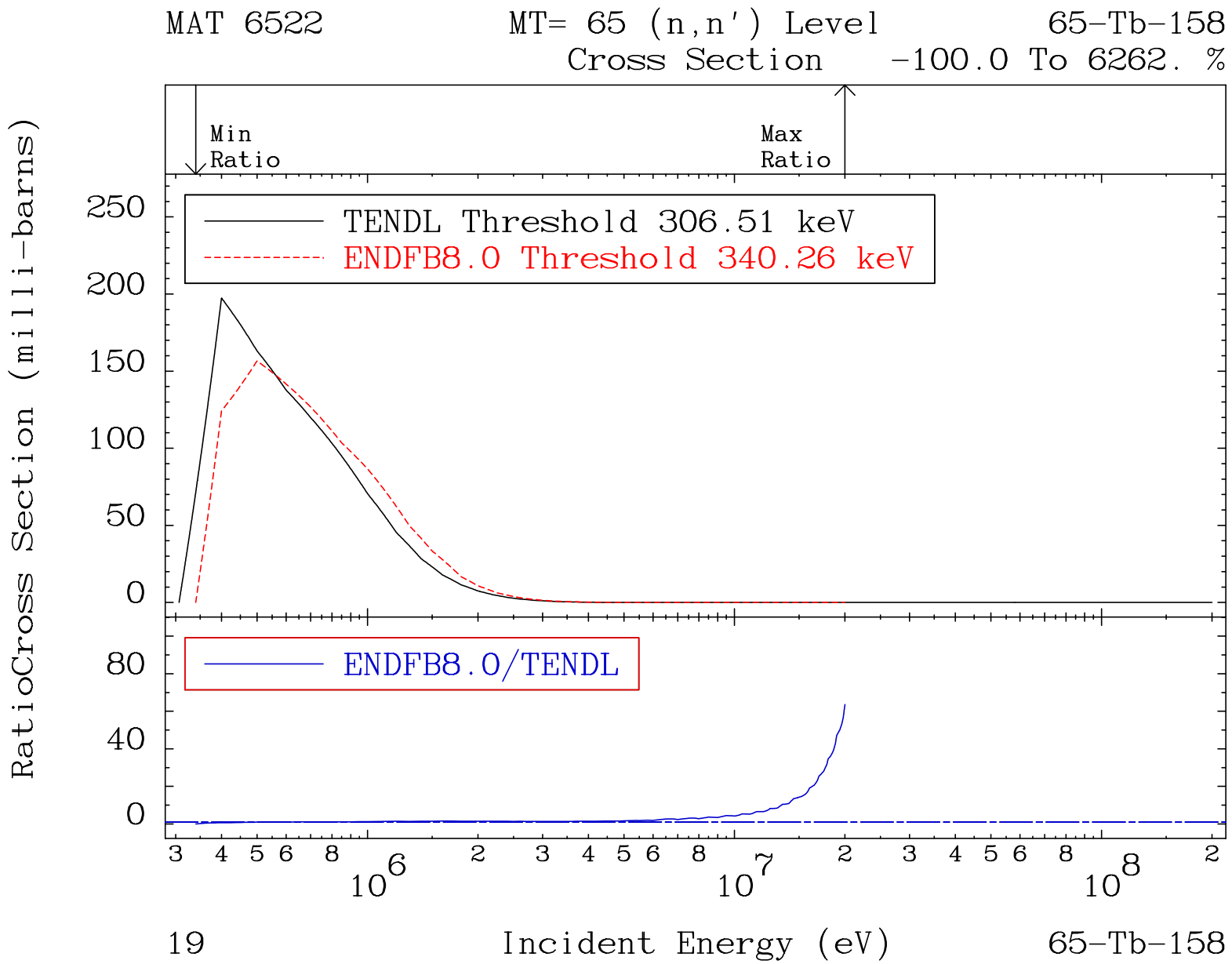

MAT 6522
MT= 60 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 218.2 %
Max
Ratio
TENDL Threshold 213.96 keV
ENDFB8.0 Threshold 243.55 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
14
Incident Energy (eV)
65-Tb-158

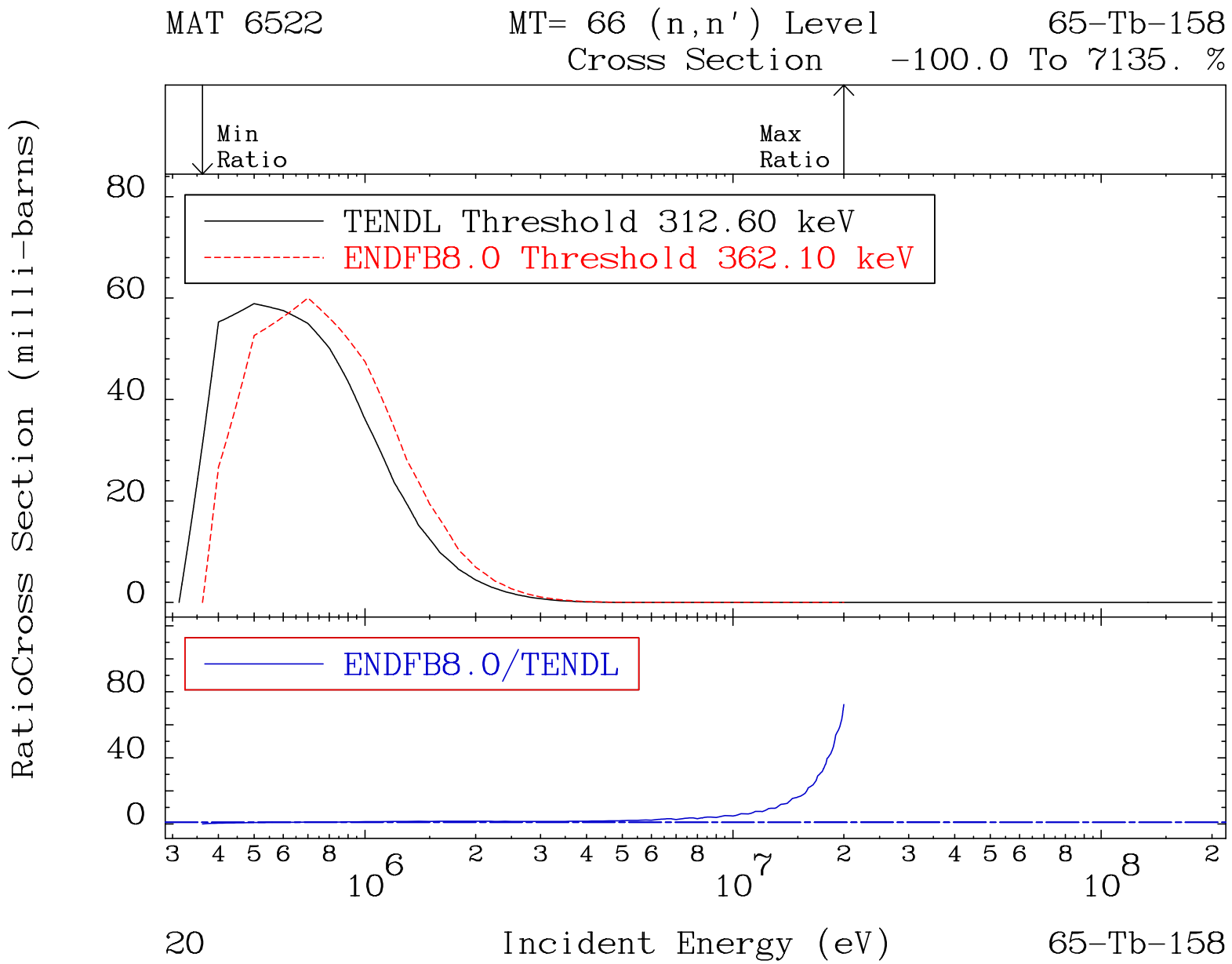

MAT 6522
MT= 61 (n,n') Level
65-Tb-158
Cross Section -100.0 To 1098. %
Max
Ratio
TENDL Threshold 218.70 keV
ENDFB8.0 Threshold 282.39 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
15
Incident Energy (eV)
65-Tb-158

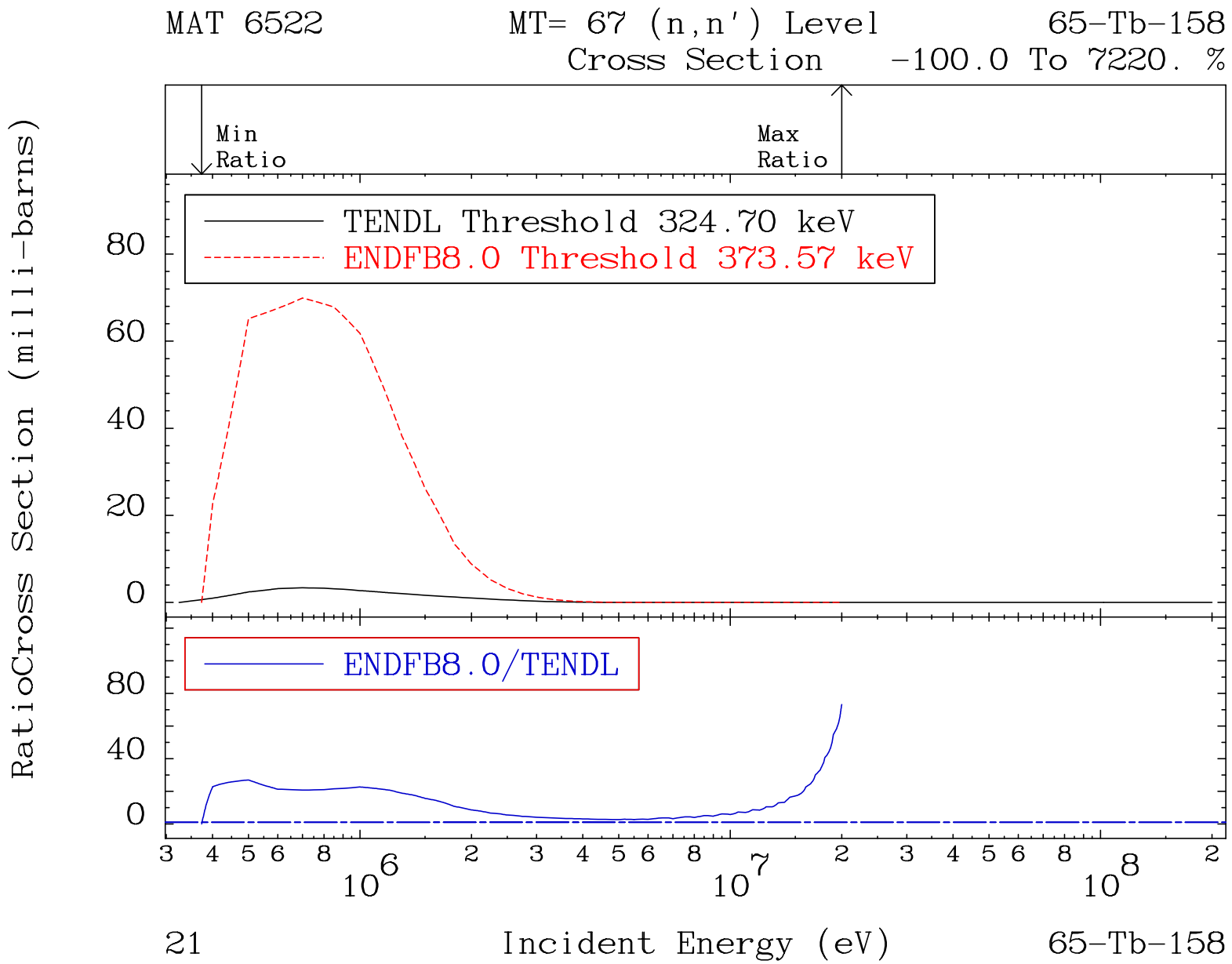

MAT 6522
MT= 62 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 8788. %
Min Ratio
Max Ratio
TENDL Threshold 243.55 keV
ENDFB8.0 Threshold 300.41 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
120
80
40
0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
16
Incident Energy (eV)
65-Tb-158

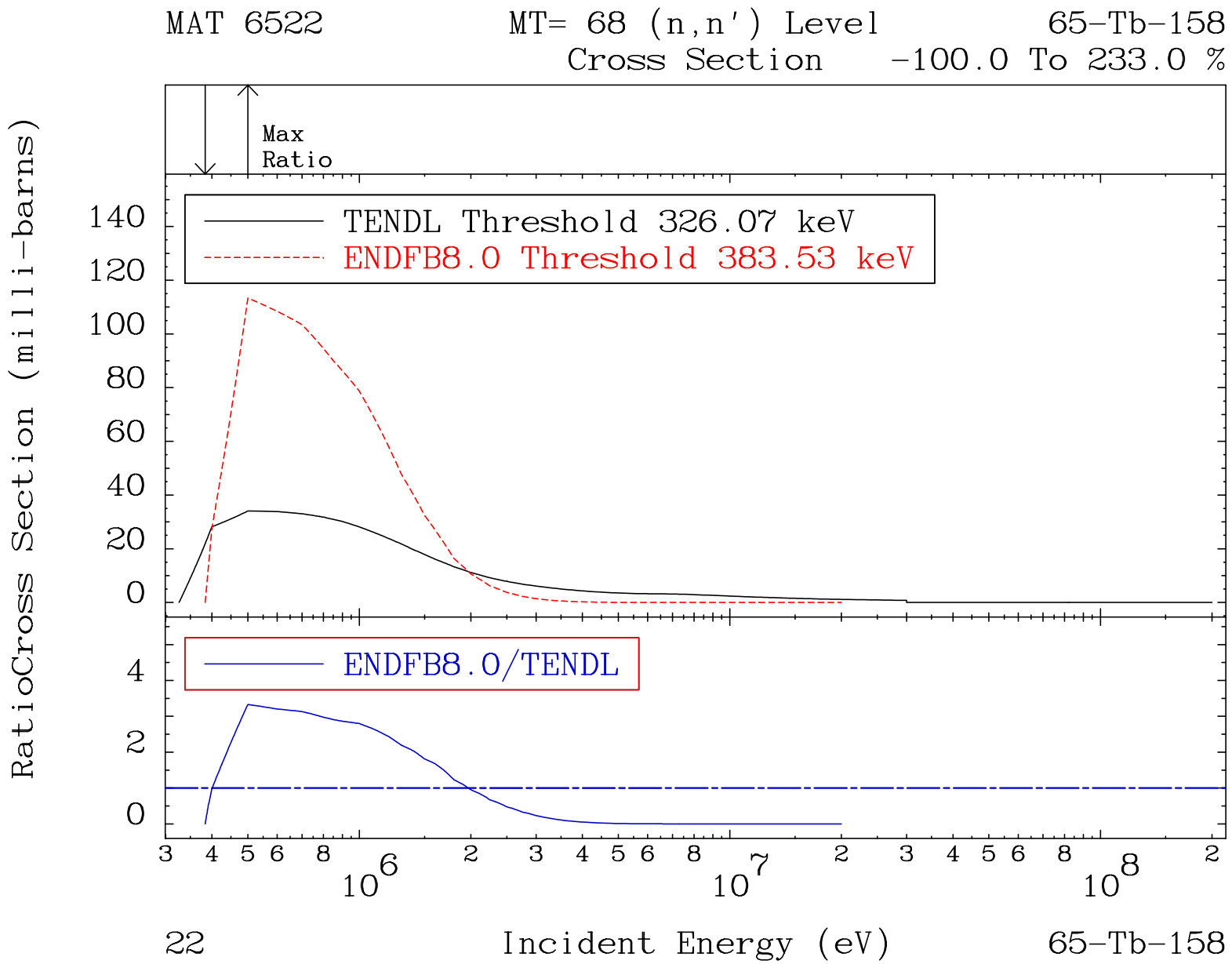

MAT 6522
MT= 63 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 7375. %
Min Ratio
Max Ratio
TENDL Threshold 282.39 keV
ENDFB8.0 Threshold 324.66 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
17
65-Tb-158

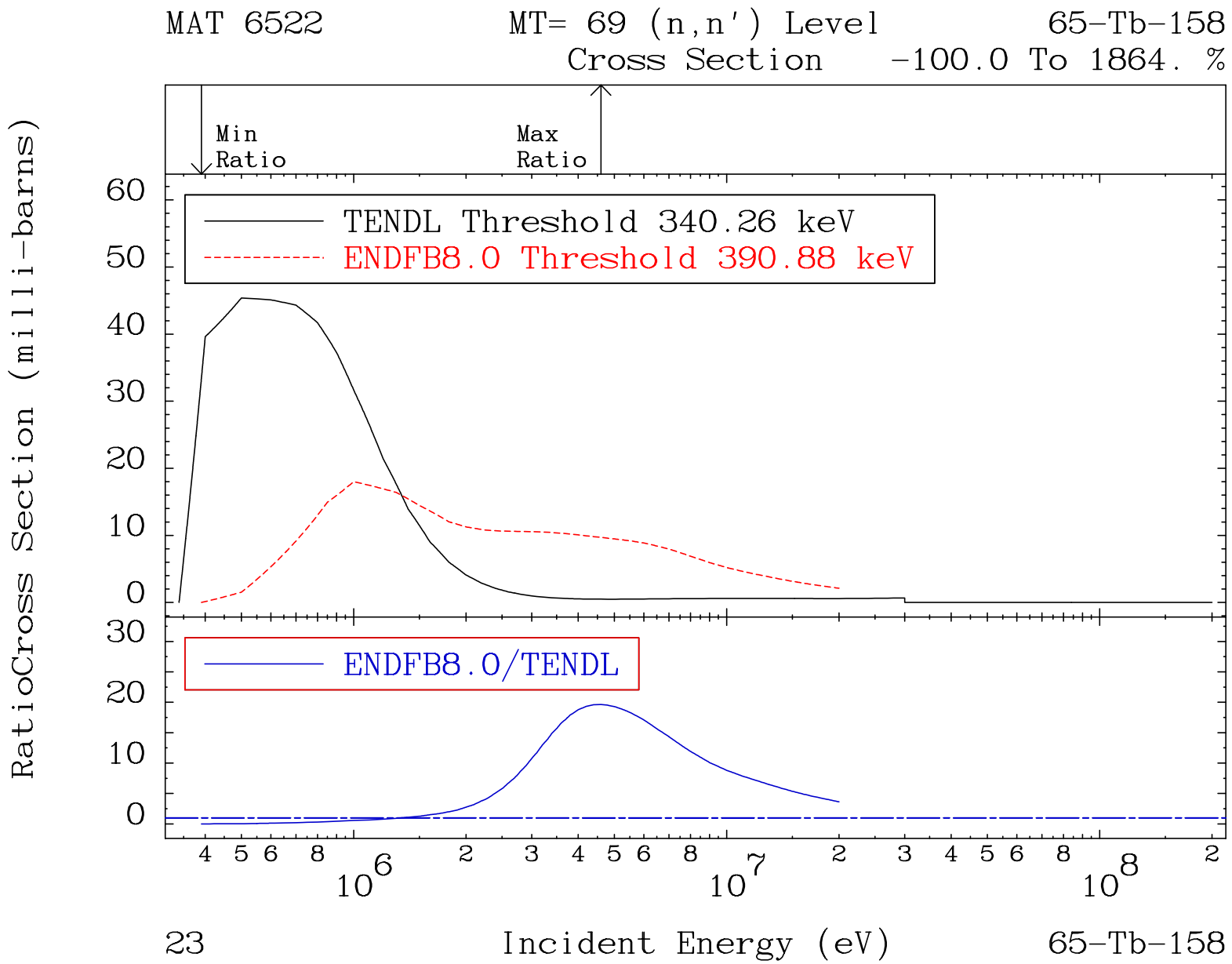

MAT 6522
MT= 64 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 73.13 %
Min Ratio
Max Ratio
TENDL Threshold 300.31 keV
ENDFB8.0 Threshold 326.07 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
65-Tb-158

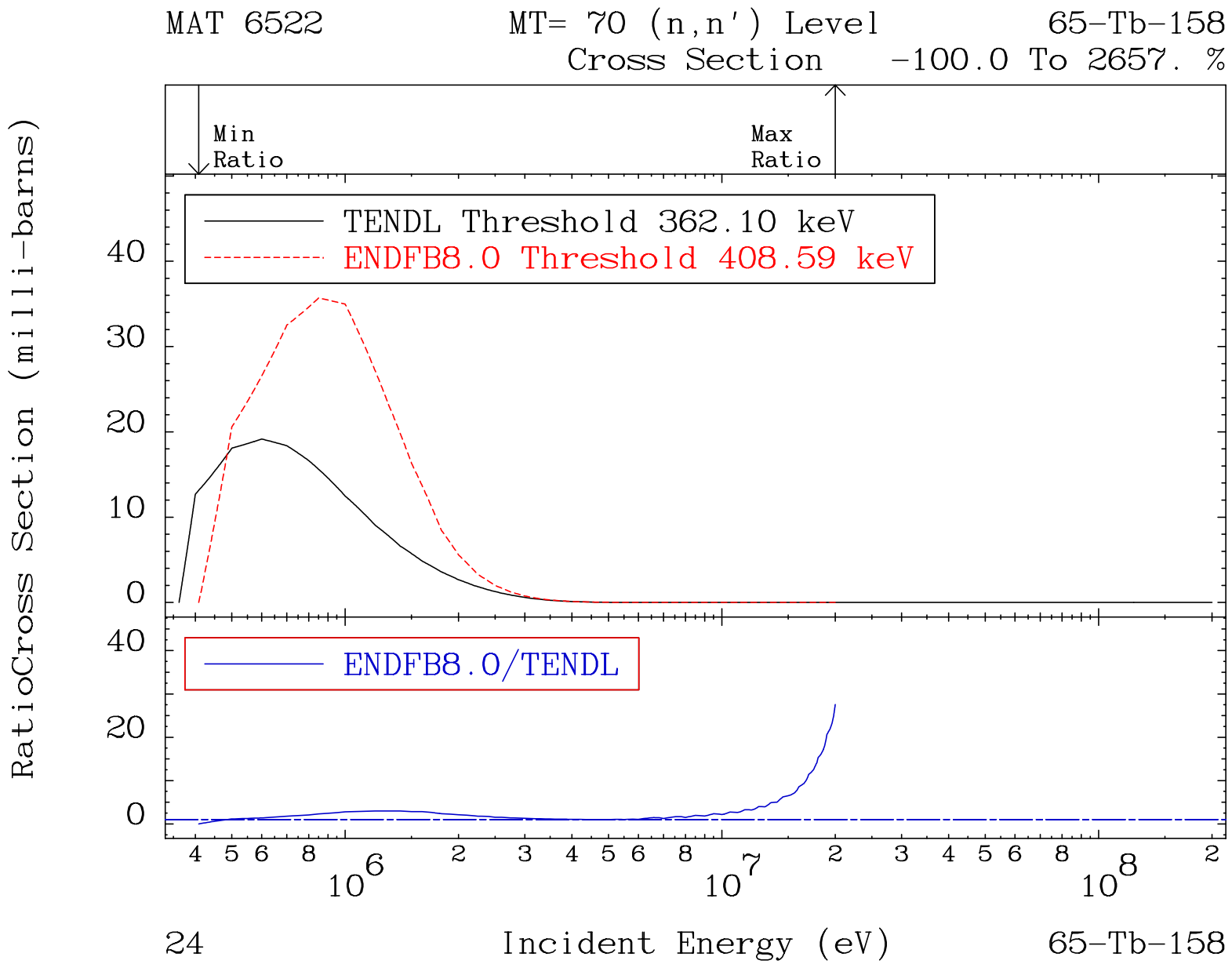

MAT 6522
MT= 65 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 6262. %
Min Ratio
Max Ratio
TENDL Threshold 306.51 keV
ENDFB8.0 Threshold 340.26 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
80
40
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
65-Tb-158

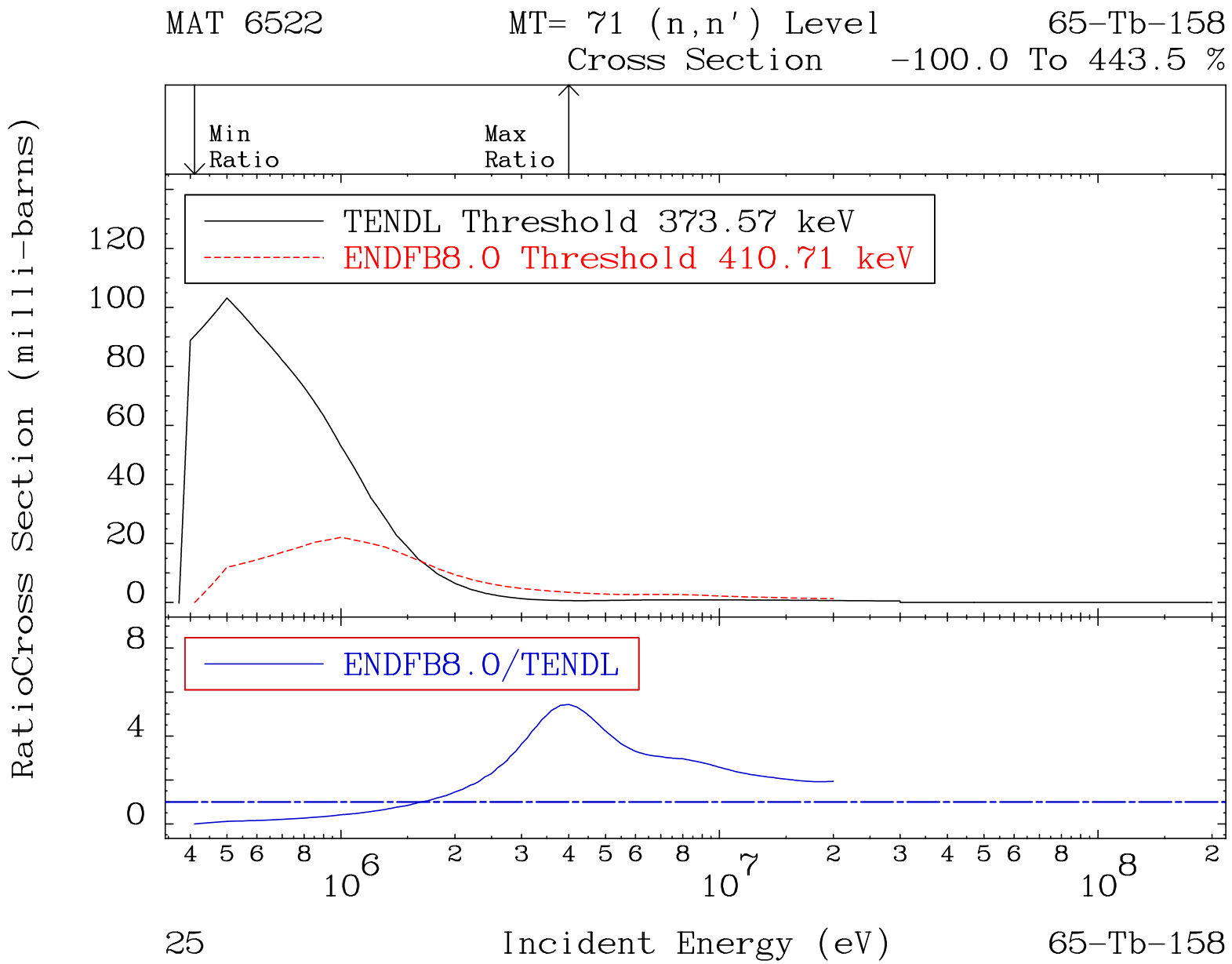

MAT 6522
MT= 66 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 7135. %
Min Ratio
Max Ratio
TENDL Threshold 312.60 keV
ENDFB8.0 Threshold 362.10 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
65-Tb-158

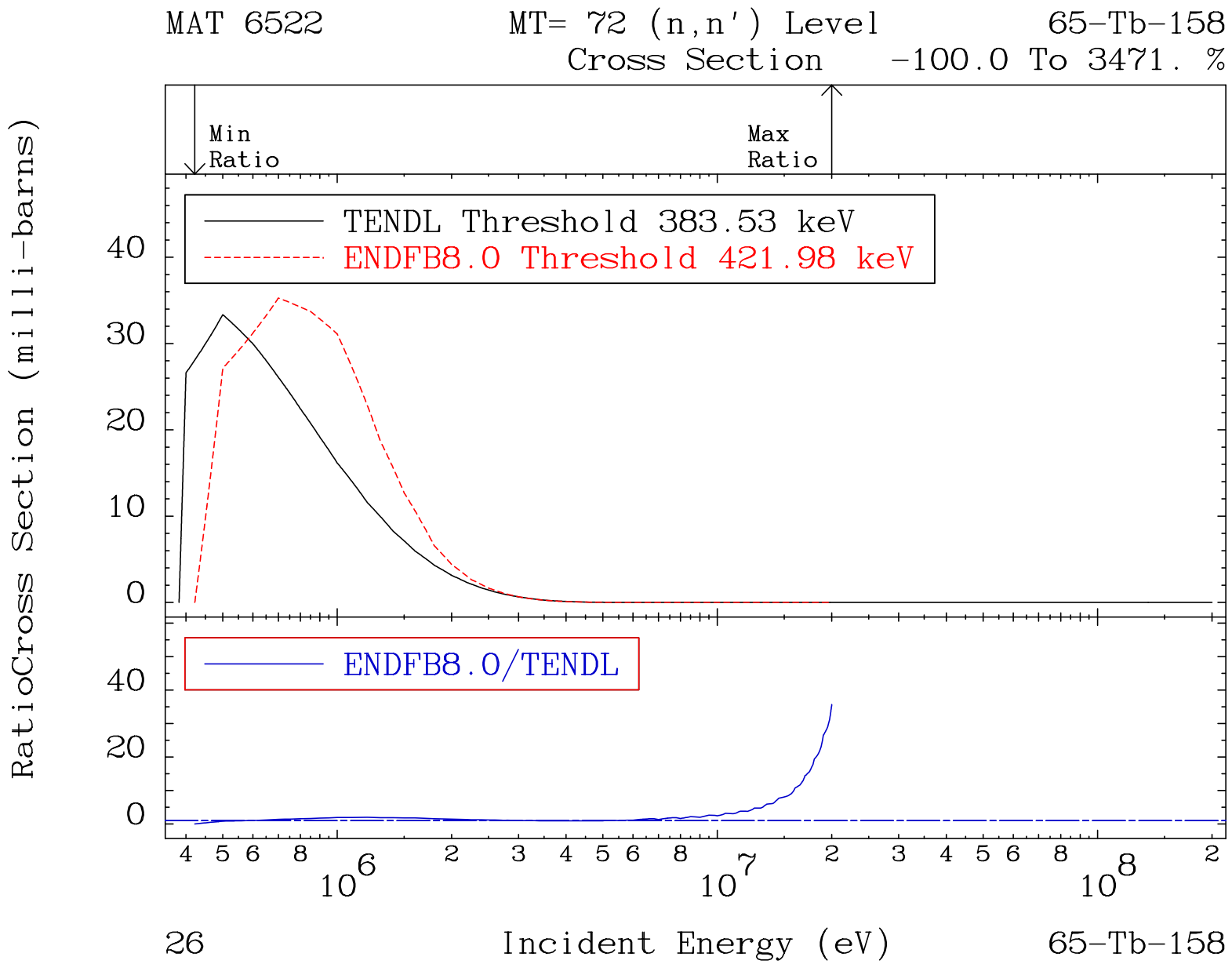

MAT 6522
MT= 67 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 7220. %
Min Ratio
Max Ratio
TENDL Threshold 324.70 keV
ENDFB8.0 Threshold 373.57 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
65-Tb-158

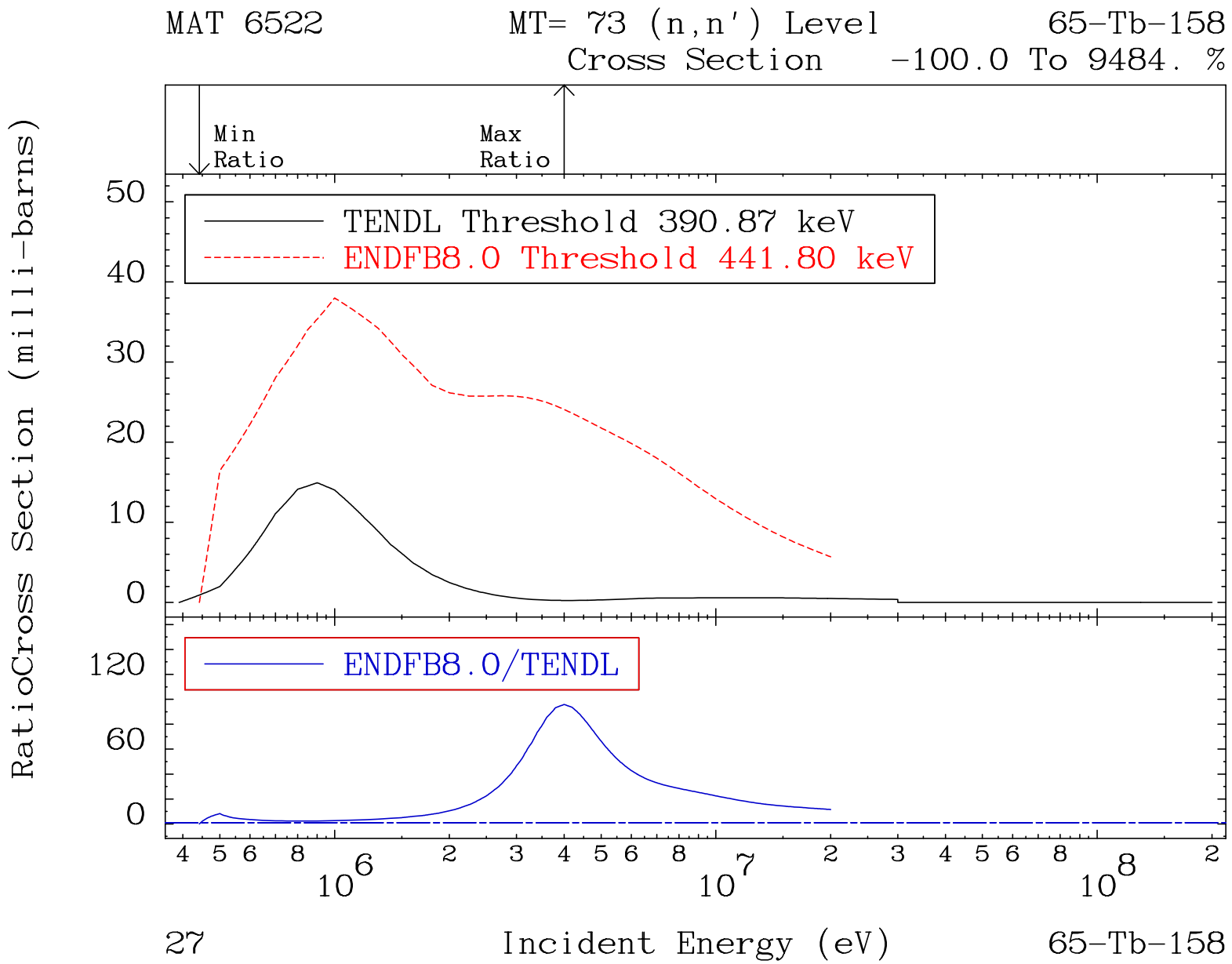

MAT 6522
MT= 68 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 233.0 %
Max
Ratio
TENDL Threshold 326.07 keV
ENDFB8.0 Threshold 383.53 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
4
2
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
65-Tb-158

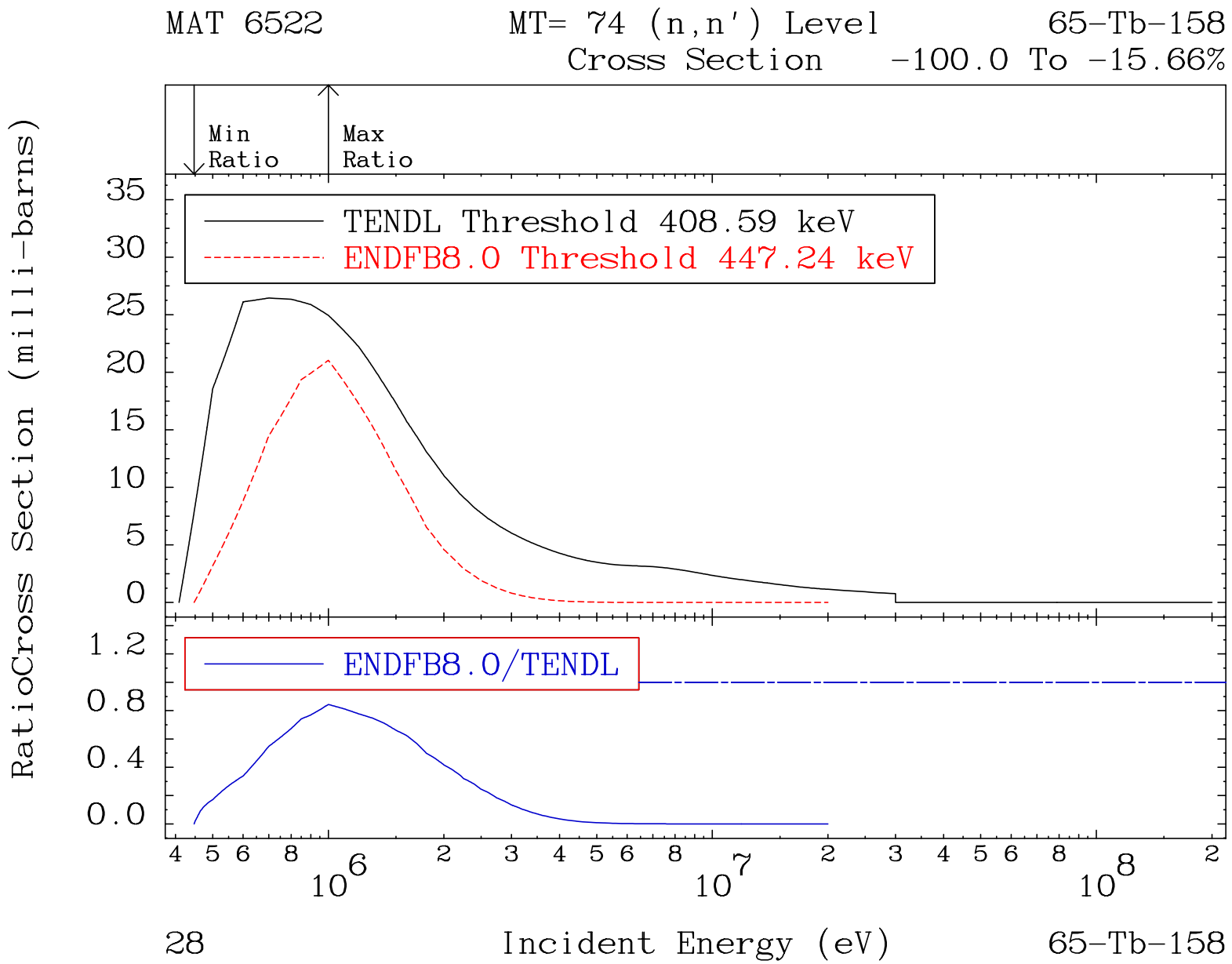

MAT 6522
MT= 69 (n,n') Level
65-Tb-158
Cross Section -100.0 To 1864. %
Min Ratio
Max Ratio
TENDL Threshold 340.26 keV
ENDFB8.0 Threshold 390.88 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
65-Tb-158

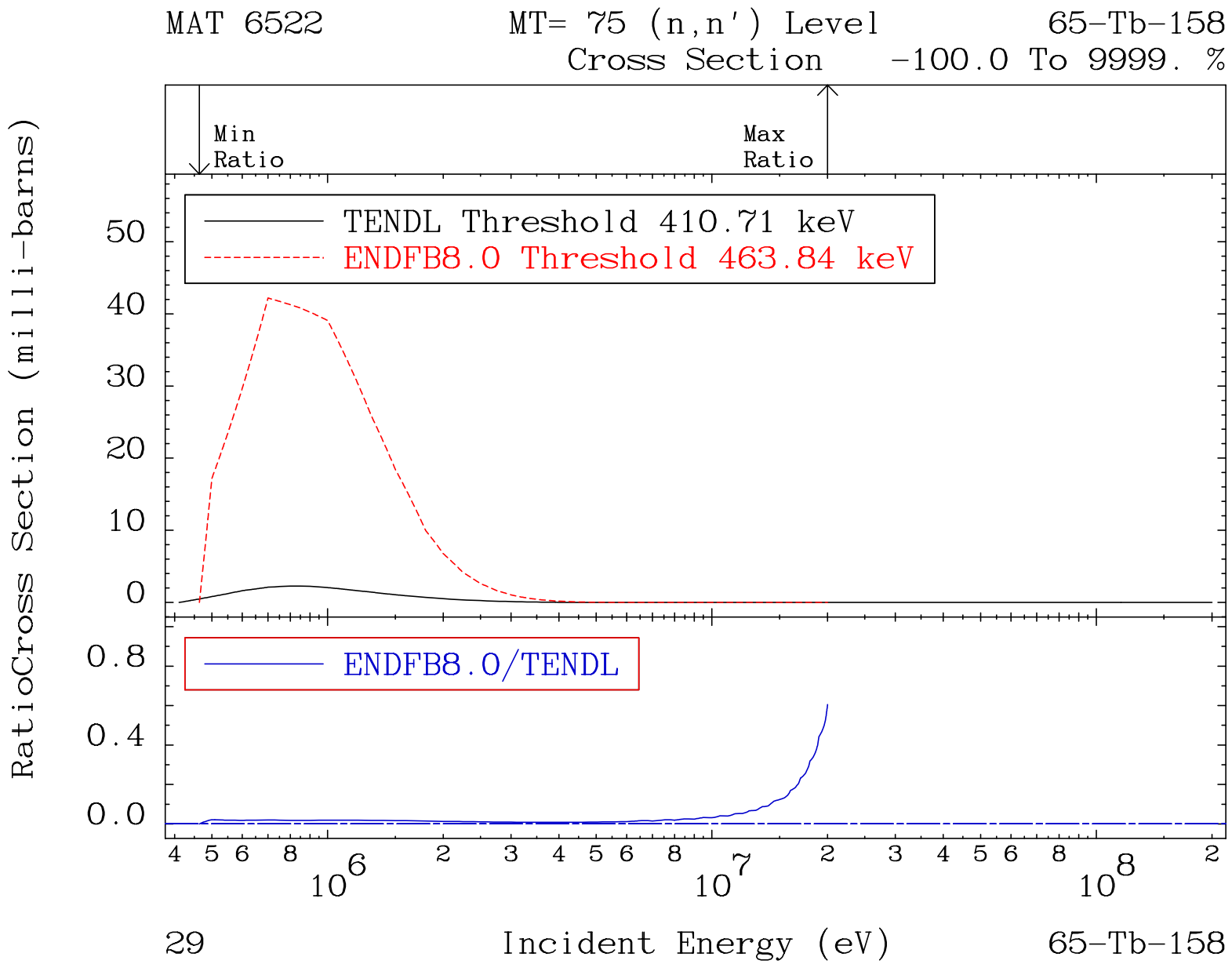

MAT 6522
MT= 70 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 2657. %
Min Ratio
Max Ratio
TENDL Threshold 362.10 keV
ENDFB8.0 Threshold 408.59 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
40
20
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
65-Tb-158

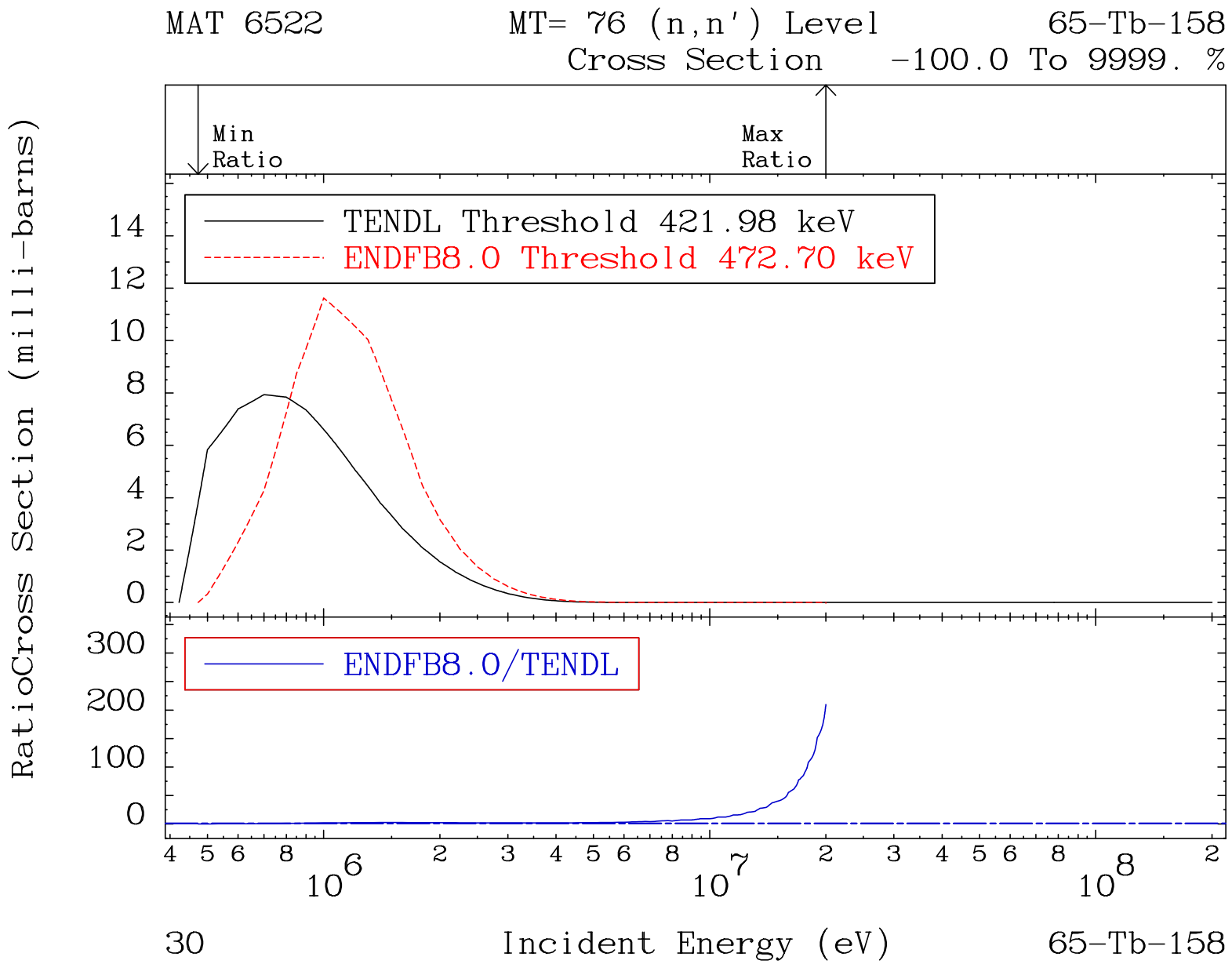

MAT 6522
MT= 71 (n,n') Level
65-Tb-158
Cross Section -100.0 To 443.5 %
Min Ratio
Max Ratio
TENDL Threshold 373.57 keV
ENDFB8.0 Threshold 410.71 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
8
4
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
65-Tb-158

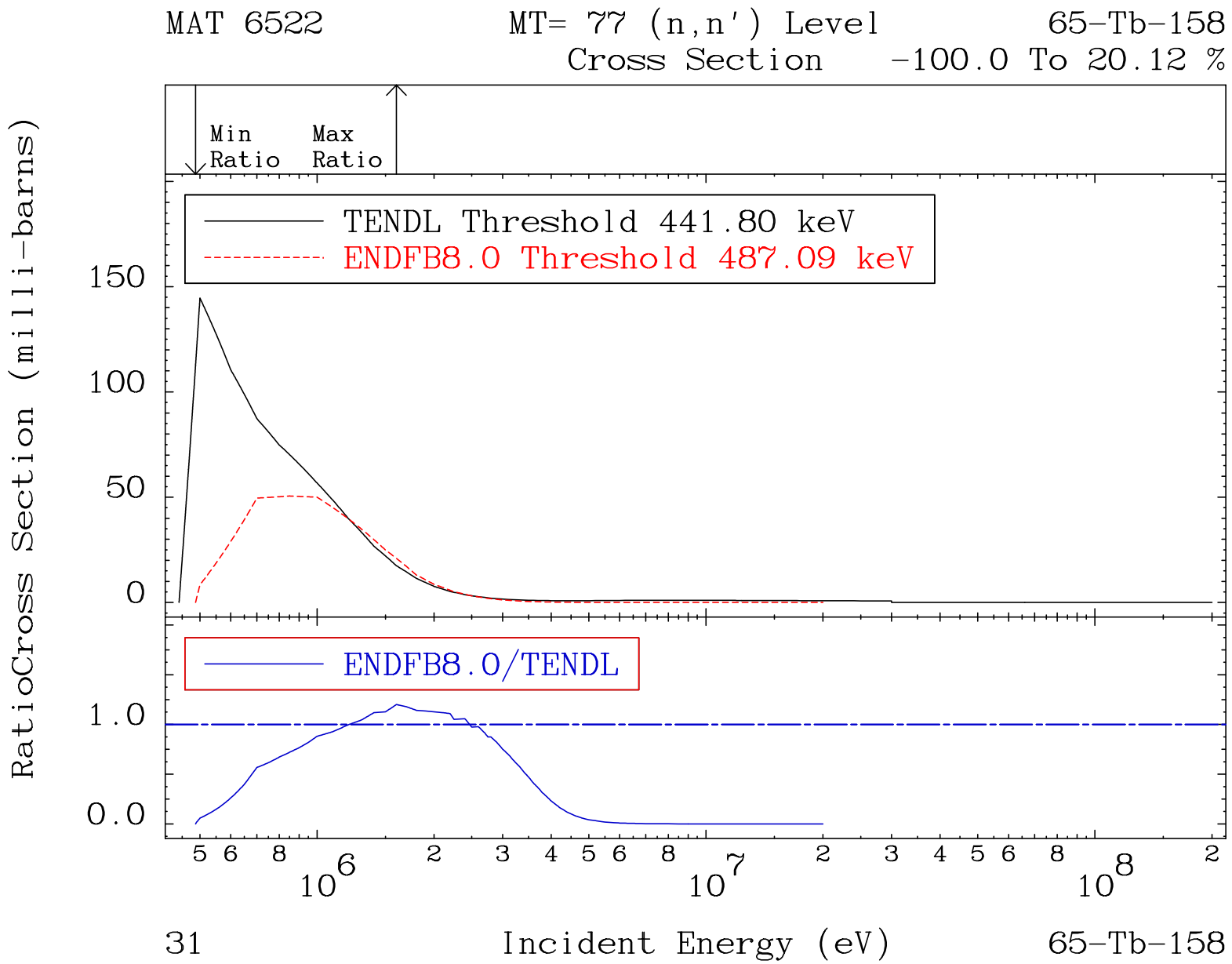

MAT 6522
MT= 72 (n,n') Level
65-Tb-158
Cross Section -100.0 To 3471. %
Min Ratio
Max Ratio
TENDL Threshold 383.53 keV
ENDFB8.0 Threshold 421.98 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
40
20
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
26
Incident Energy (eV)
65-Tb-158

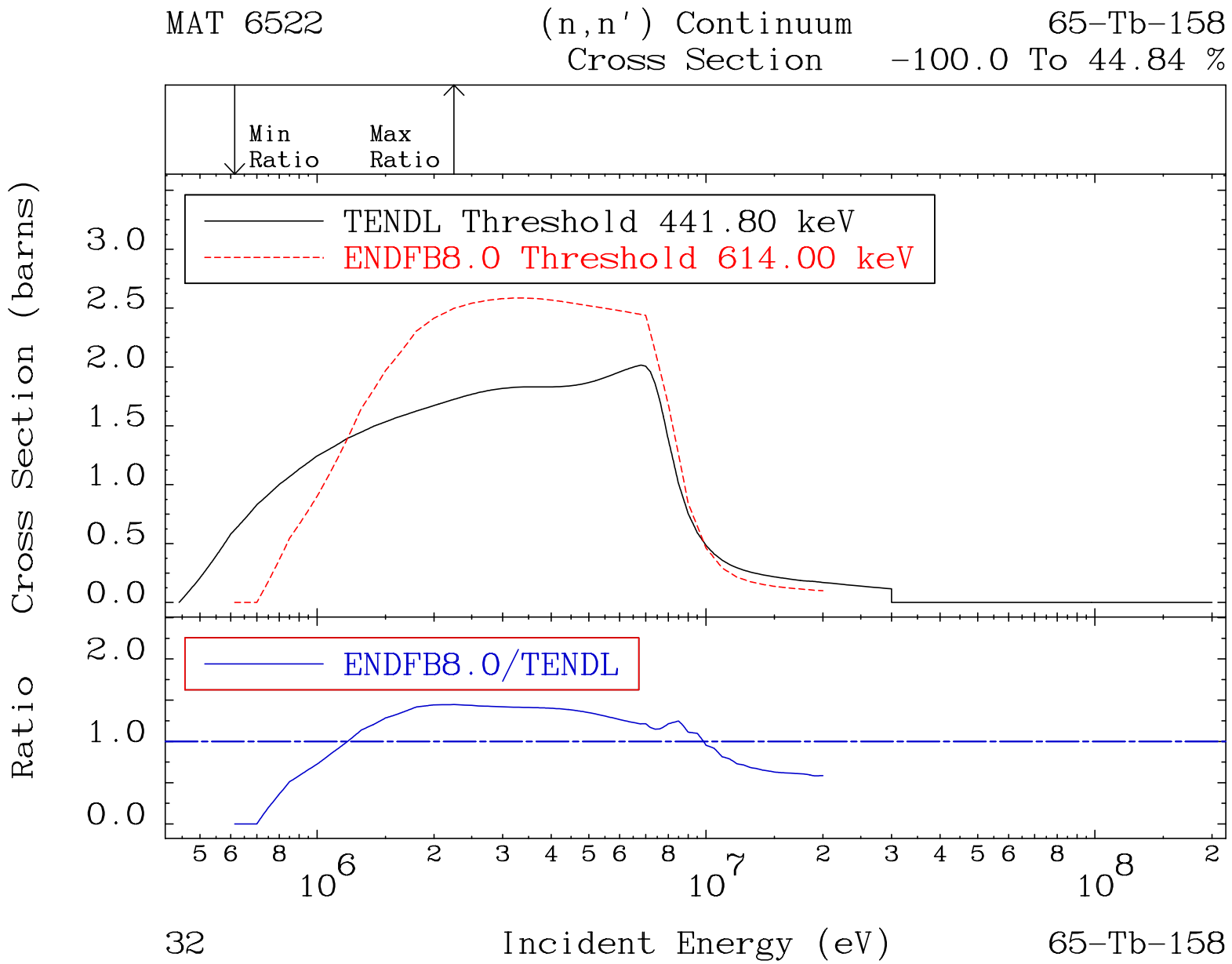

MAT 6522
MT= 73 (n,n') Level
65-Tb-158
Cross Section -100.0 To 9484. %
Min Ratio
Max Ratio
TENDL Threshold 390.87 keV
ENDFB8.0 Threshold 441.80 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
120
60
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
65-Tb-158

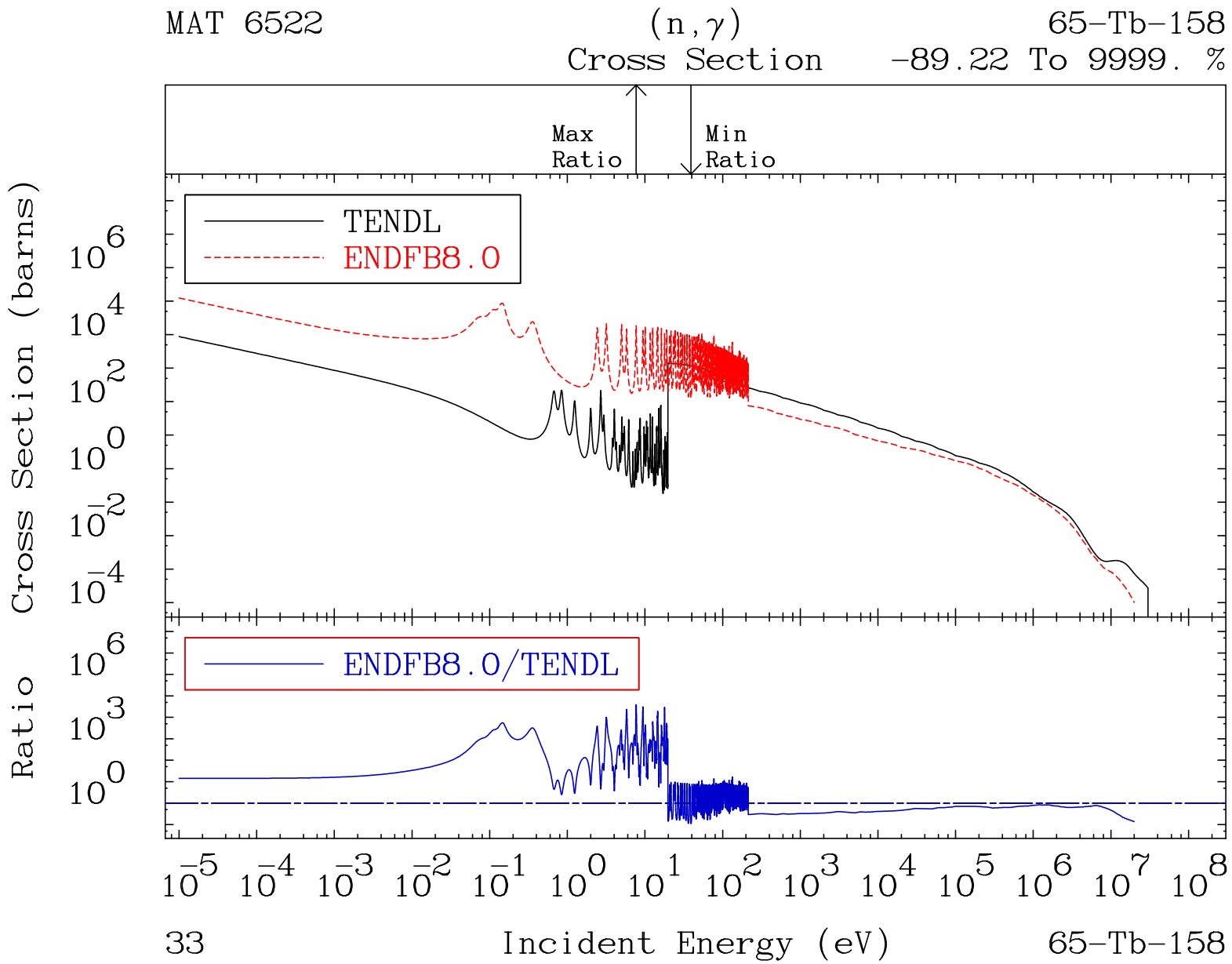

MAT 6522
MT= 74 (n,n') Level
65-Tb-158
Cross Section -100.0 To -15.66%
Min Ratio
Max Ratio
TENDL Threshold 408.59 keV
ENDFB8.0 Threshold 447.24 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
65-Tb-158

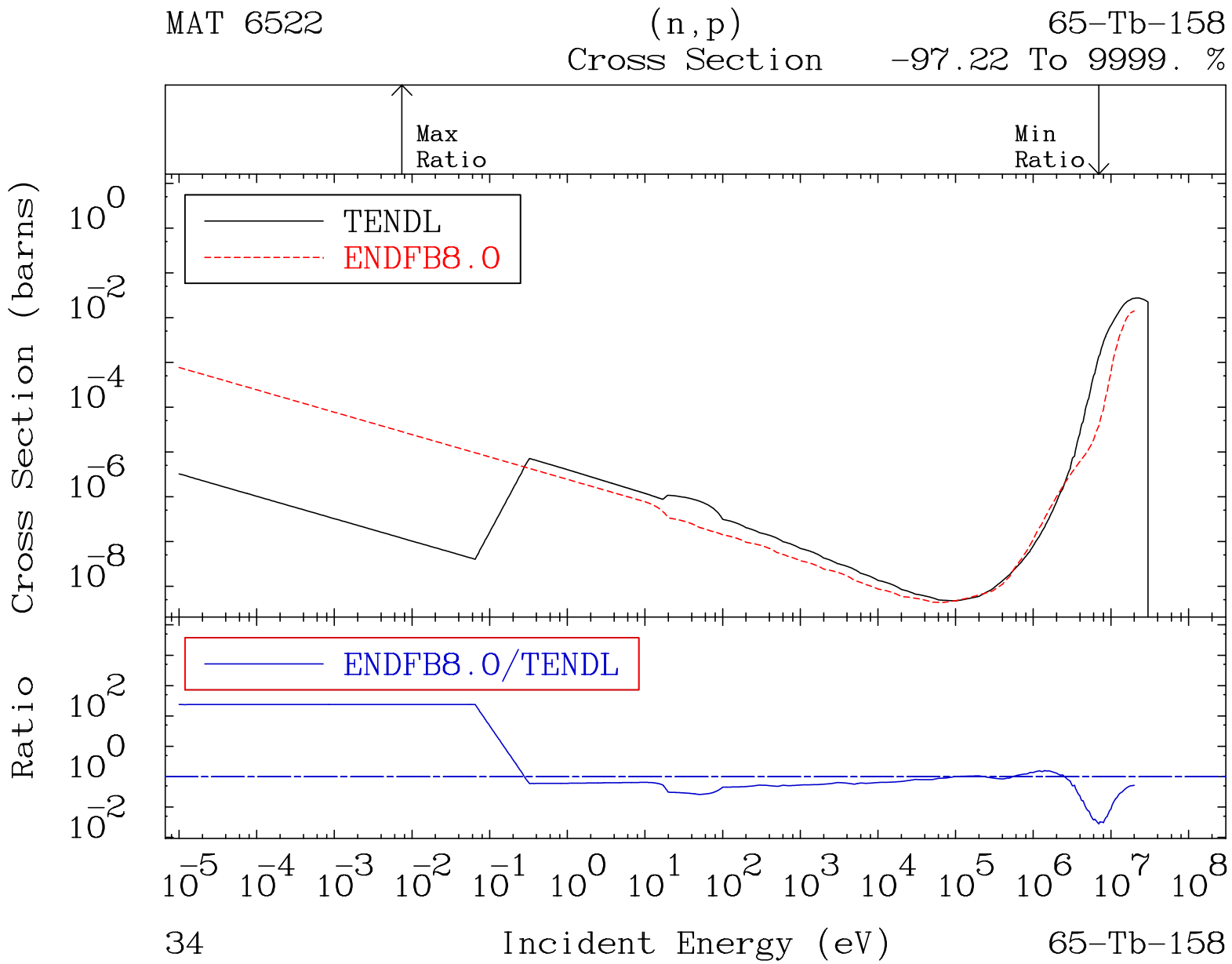

MAT 6522
MT= 75 (n,n') Level
65-Tb-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 410.71 keV
ENDFB8.0 Threshold 463.84 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
29
Incident Energy (eV)
65-Tb-158

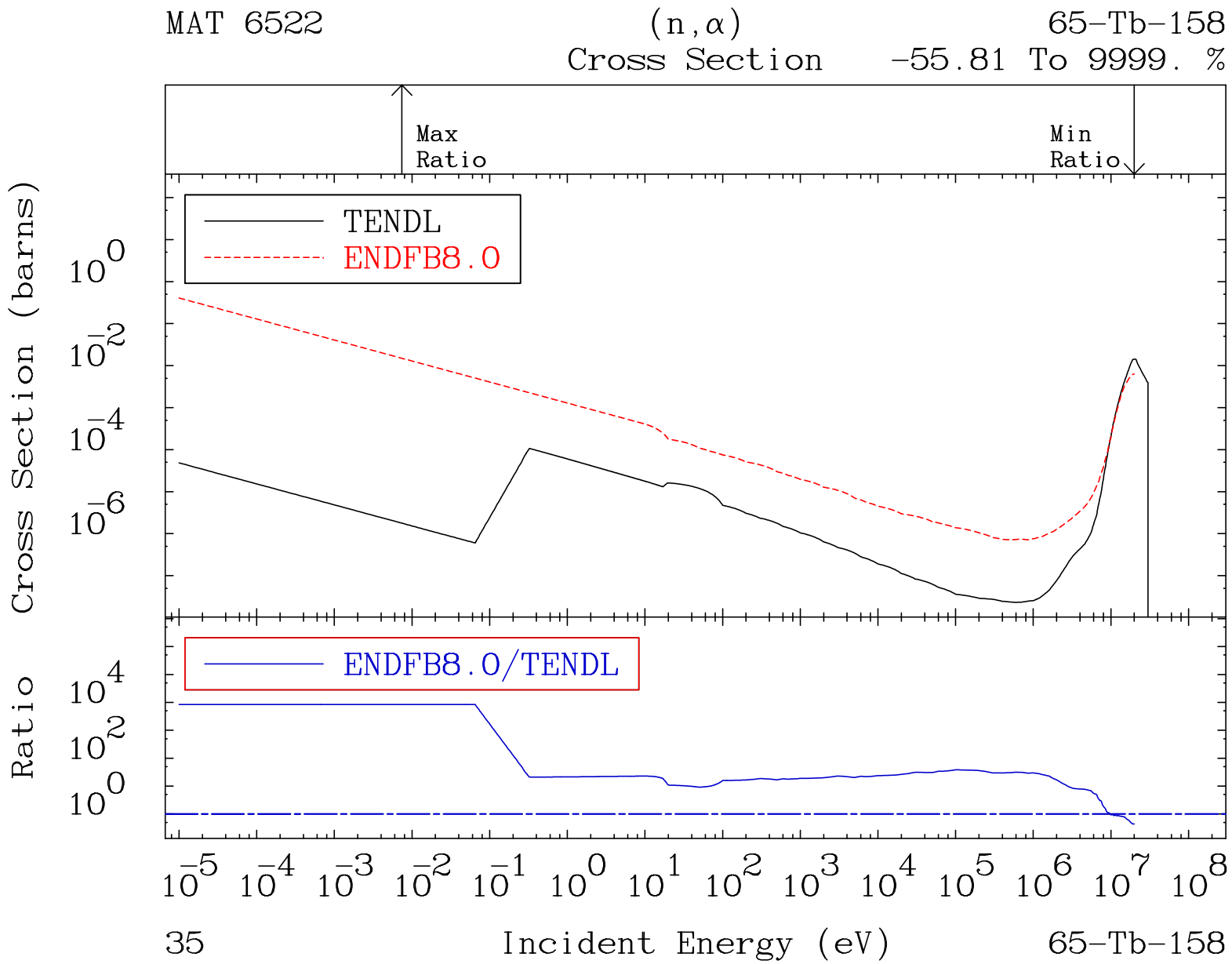

MAT 6522
MT= 76 (n,n') Level
65-Tb-158
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 421.98 keV
ENDFB8.0 Threshold 472.70 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
65-Tb-158

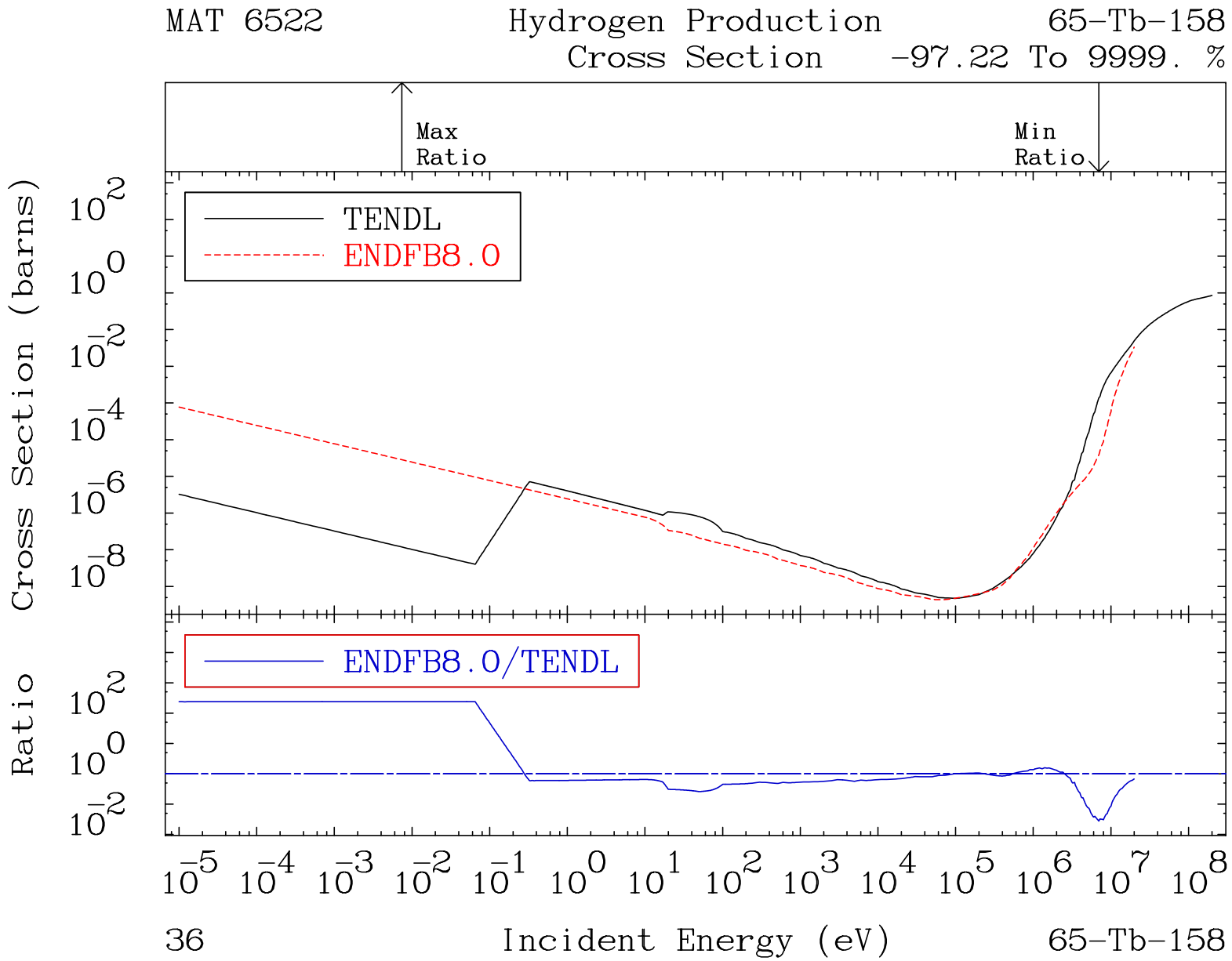

MAT 6522
MT= 77 (n,n') Level
65-Tb-158
Cross Section
-100.0 To 20.12 %
Min Ratio
Max Ratio
TENDL Threshold 441.80 keV
ENDFB8.0 Threshold 487.09 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
31
Incident Energy (eV)
65-Tb-158

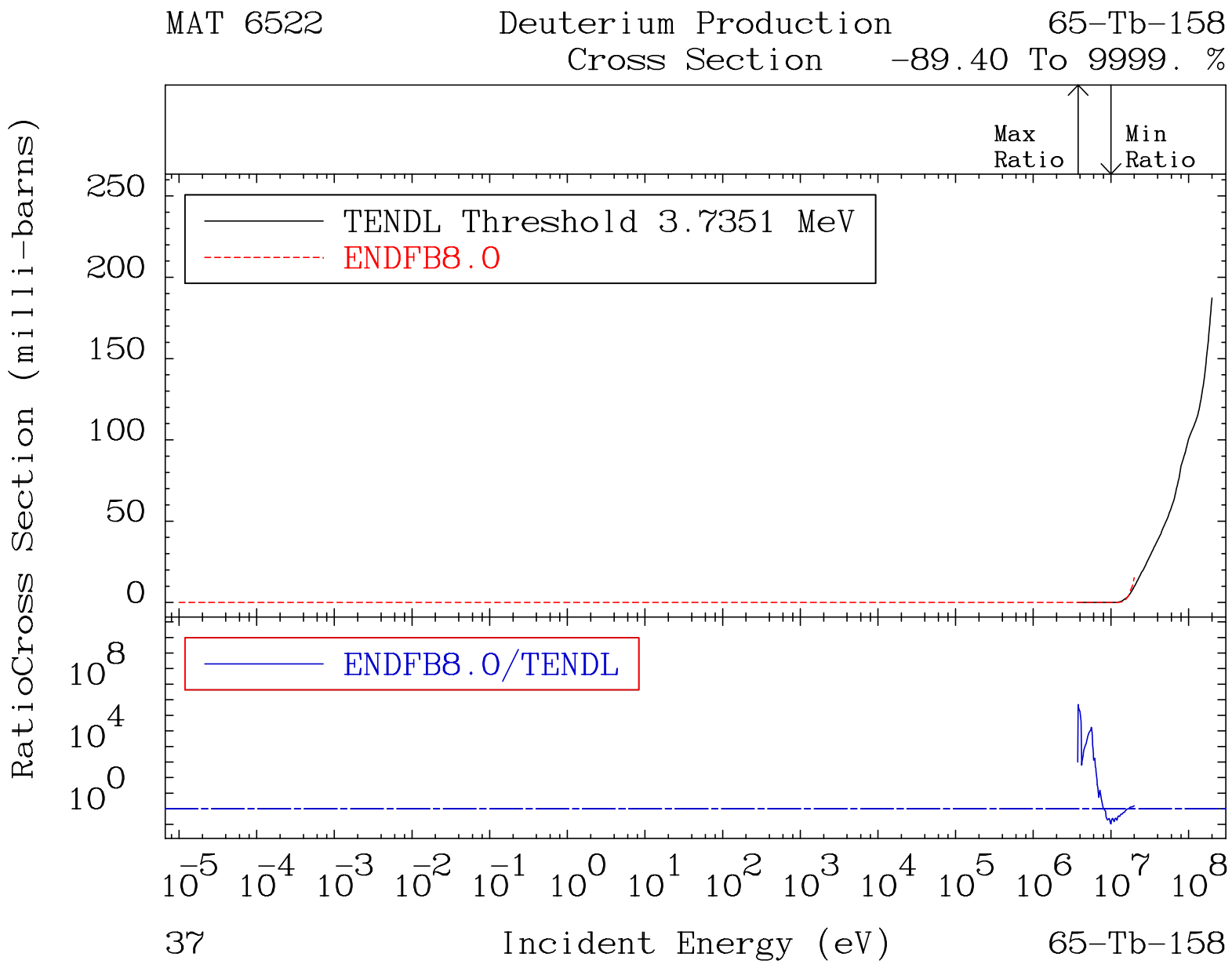

MAT 6522
(n,n') Continuum
Cross Section
65-Tb-158
-100.0 To 44.84 %
Min Ratio
Max Ratio
TENDL Threshold 441.80 keV
ENDFB8.0 Threshold 614.00 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
65-Tb-158

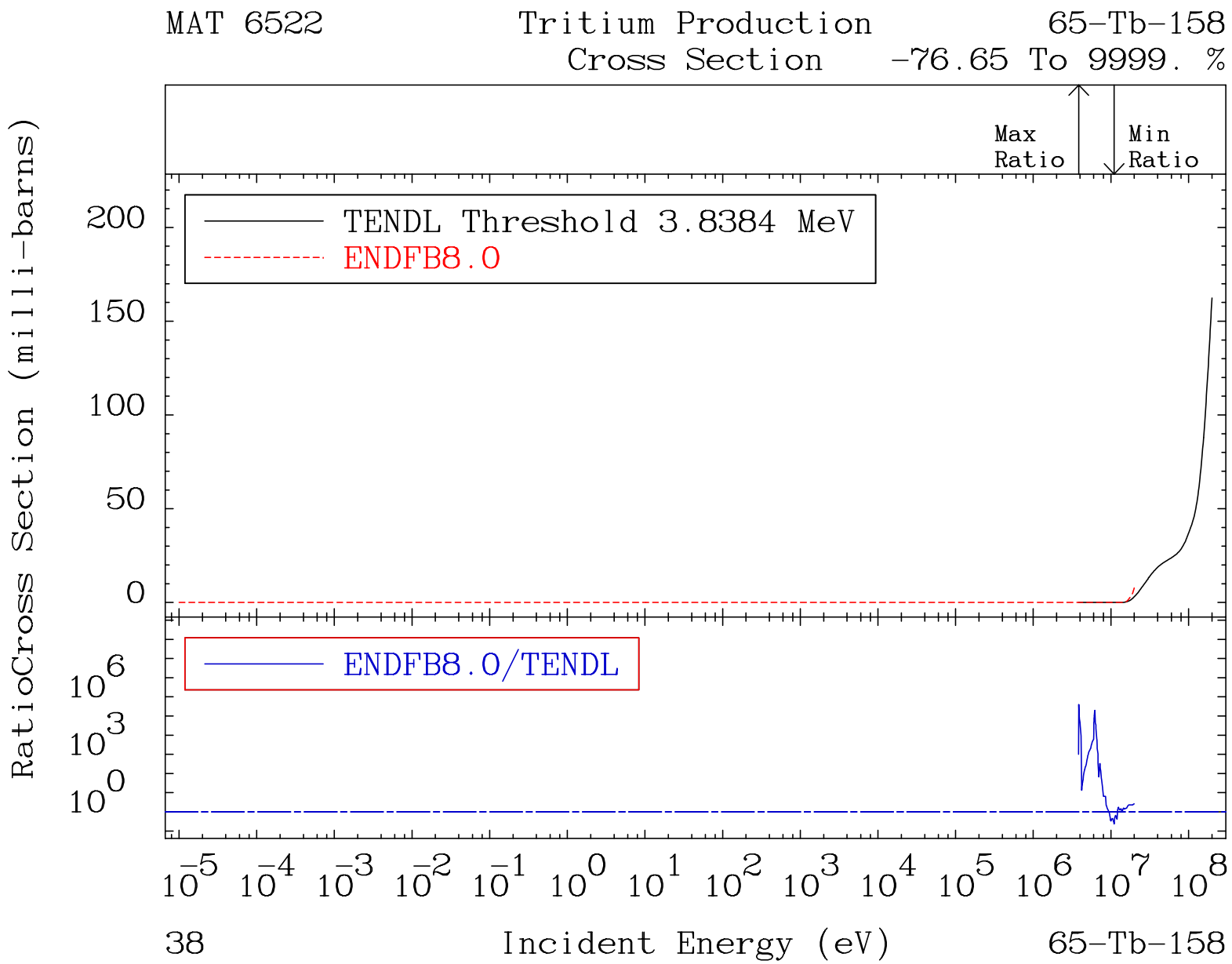

MAT 6522
(n,γ)
65-Tb-158
Cross Section
-89.22 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
65-Tb-158

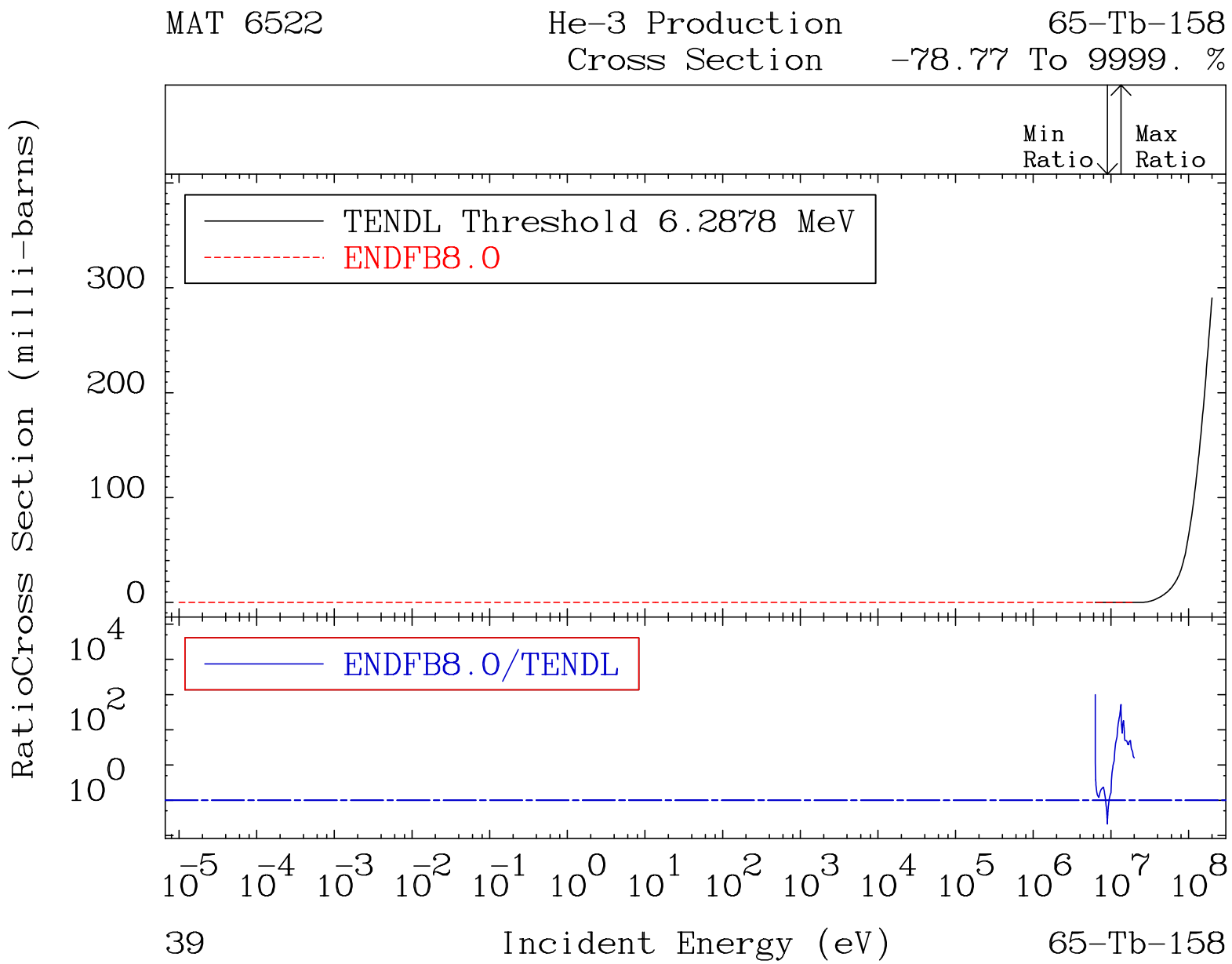

MAT 6522
(n,p)
Cross Section
65-Tb-158
-97.22 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
65-Tb-158

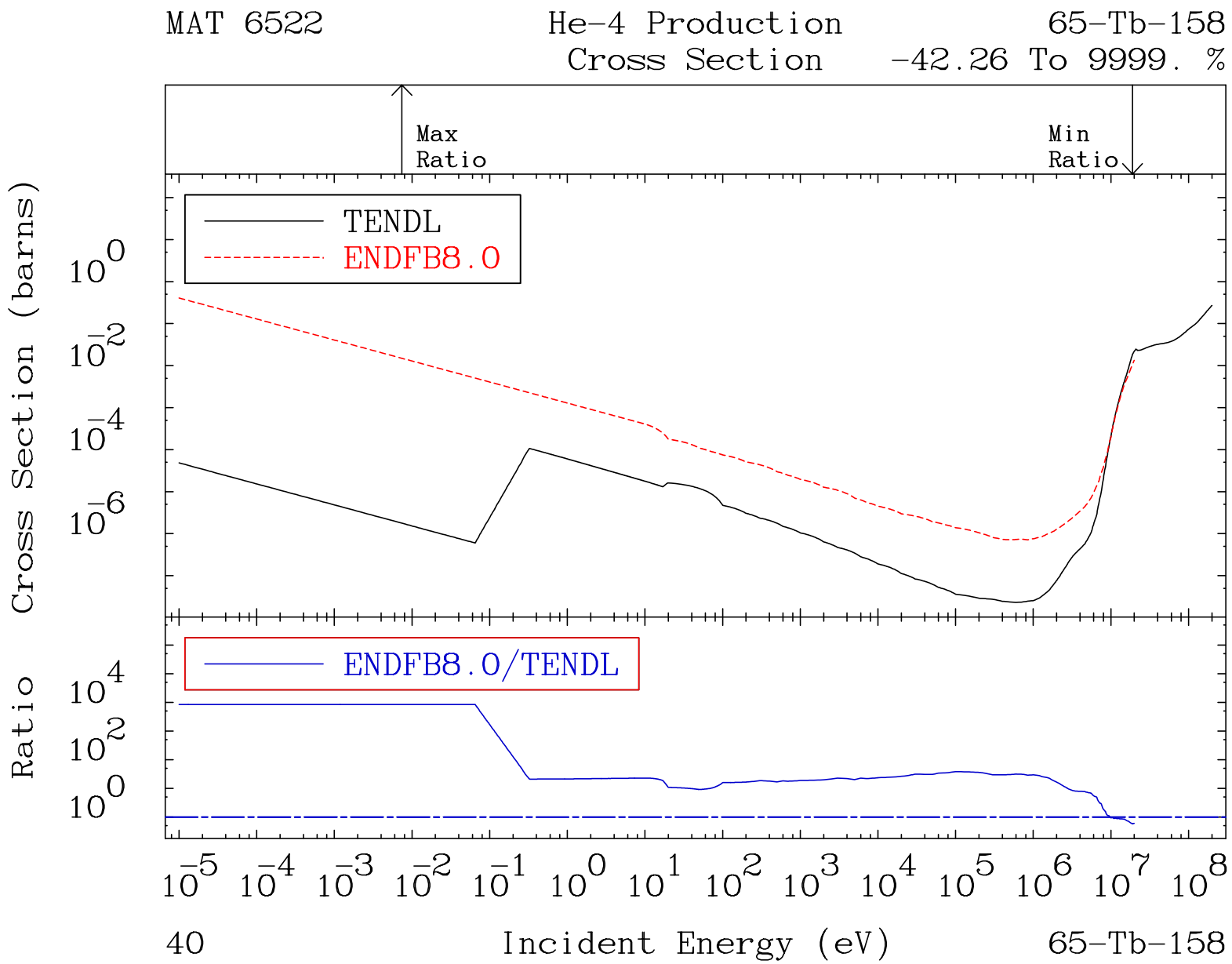

MAT 6522
(n,α)
65-Tb-158
Cross Section
-55.81 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
35
65-Tb-158

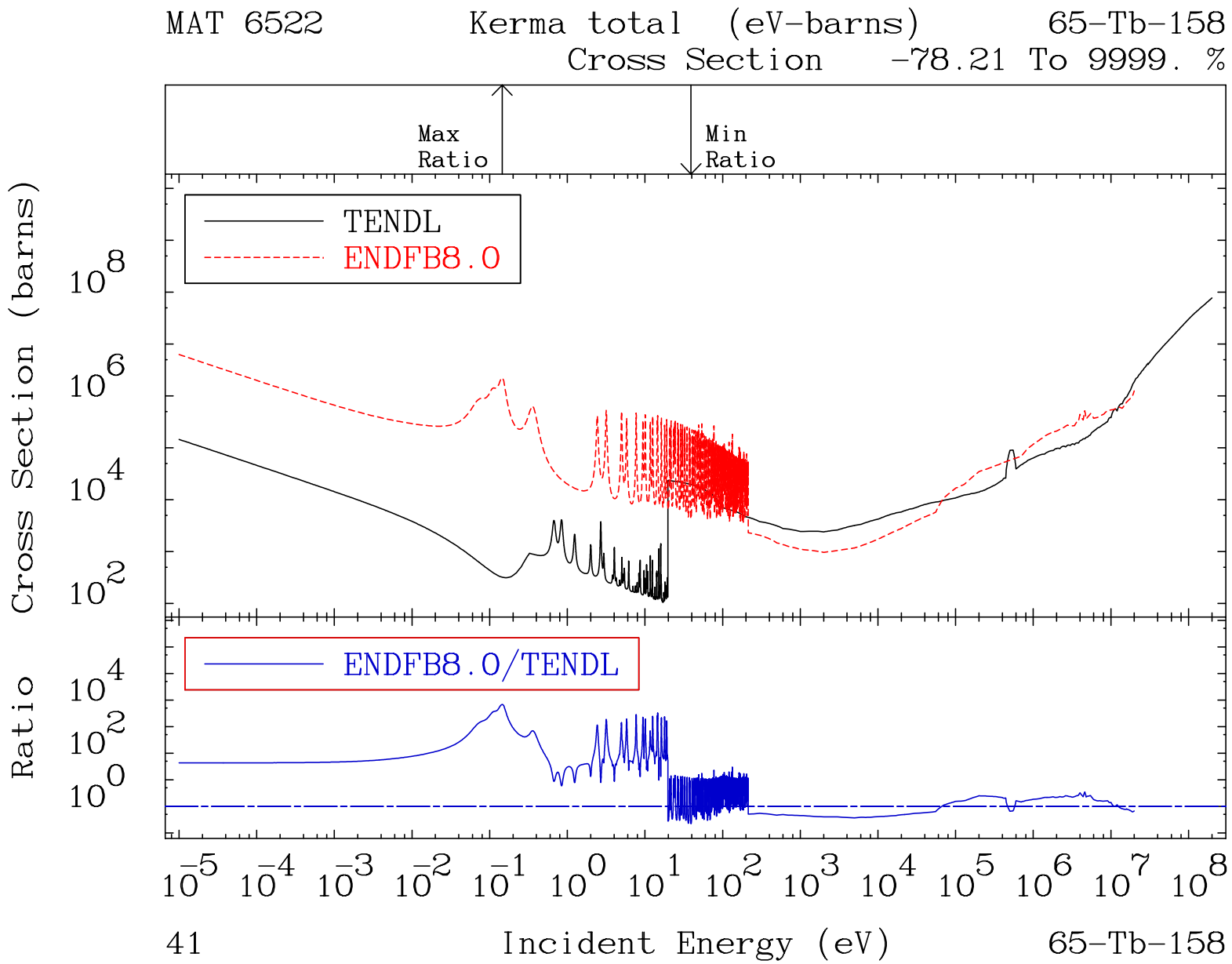

MAT 6522
Hydrogen Production
65-Tb-158
Cross Section
-97.22 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
65-Tb-158

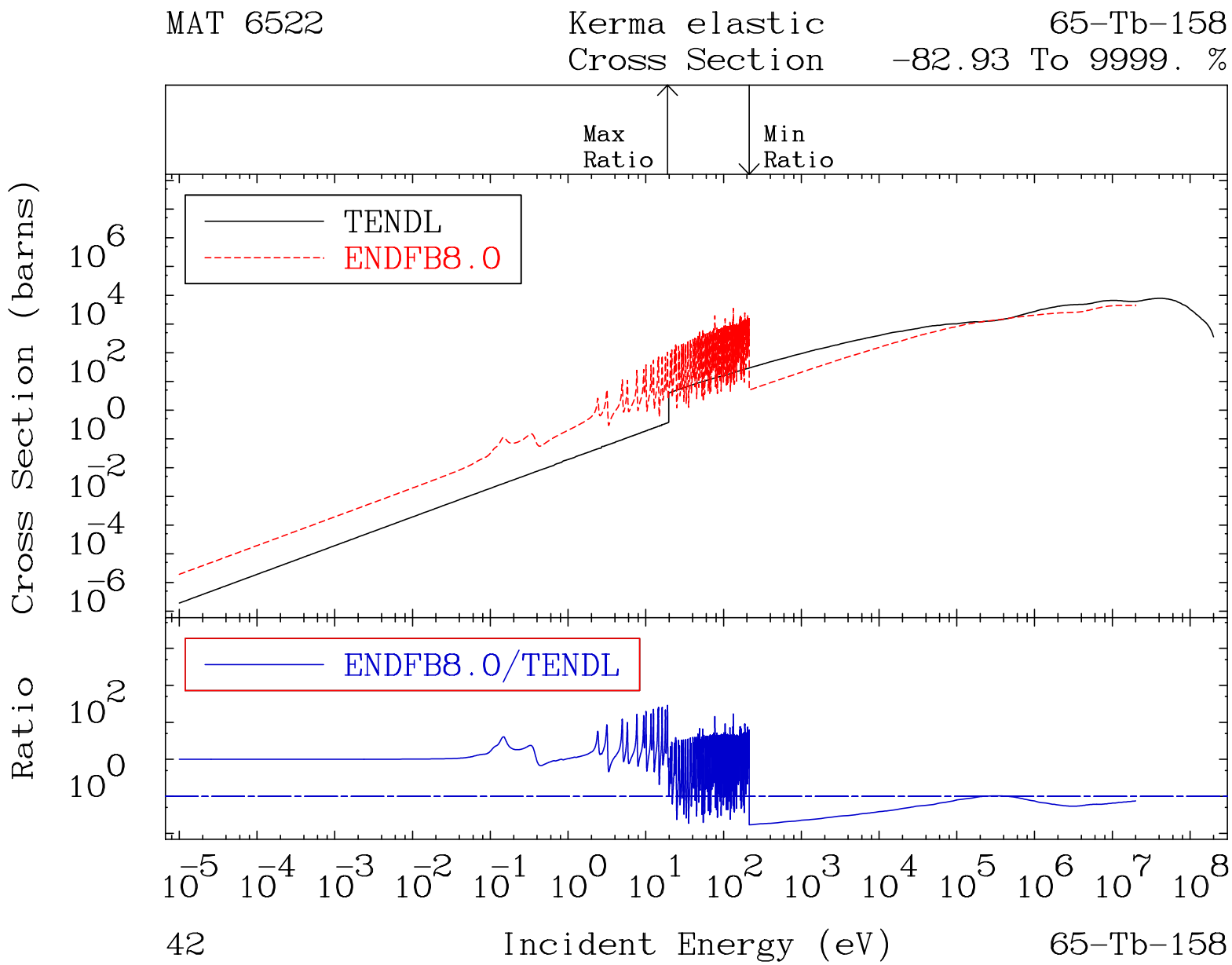

MAT 6522
Deuterium Production
65-Tb-158
Cross Section
-89.40 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.7351 MeV
ENDFB8.0
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^8
10^4
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
65-Tb-158

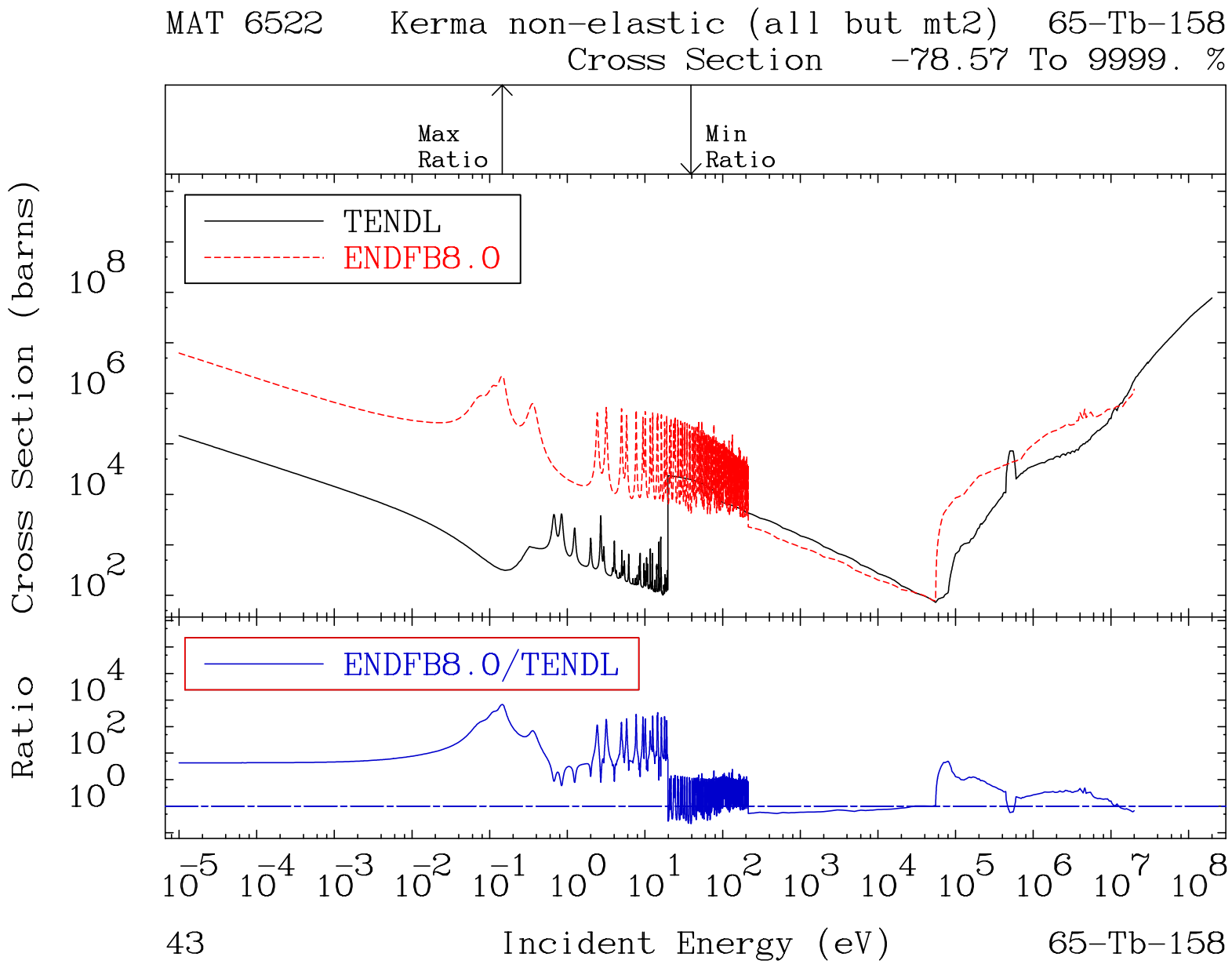

MAT 6522
Tritium Production
Cross Section
65-Tb-158
-76.65 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.8384 MeV
ENDFB8.0
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
65-Tb-158

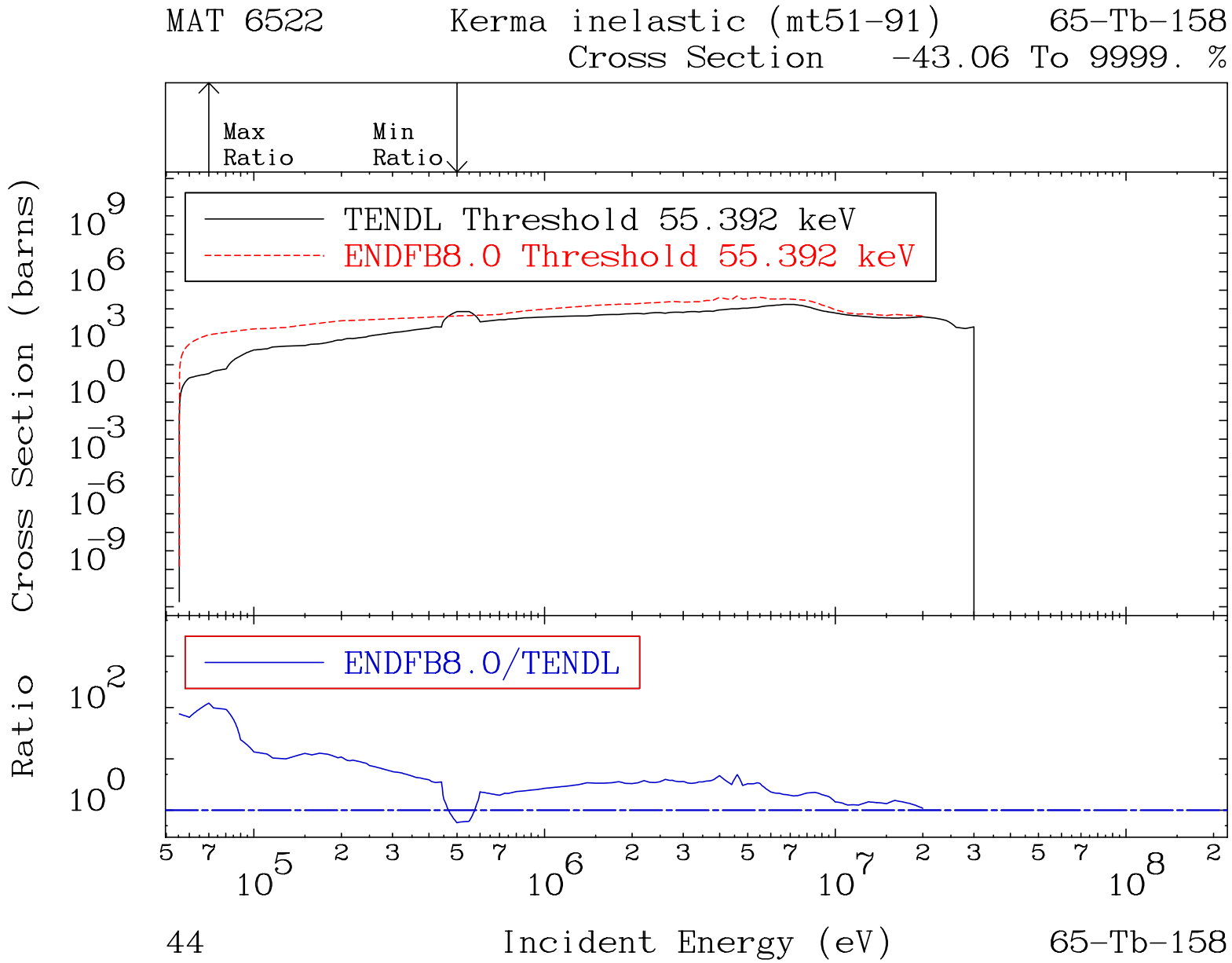

MAT 6522
He-3 Production
Cross Section
65-Tb-158
-78.77 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.2878 MeV
ENDFB8.0
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
65-Tb-158

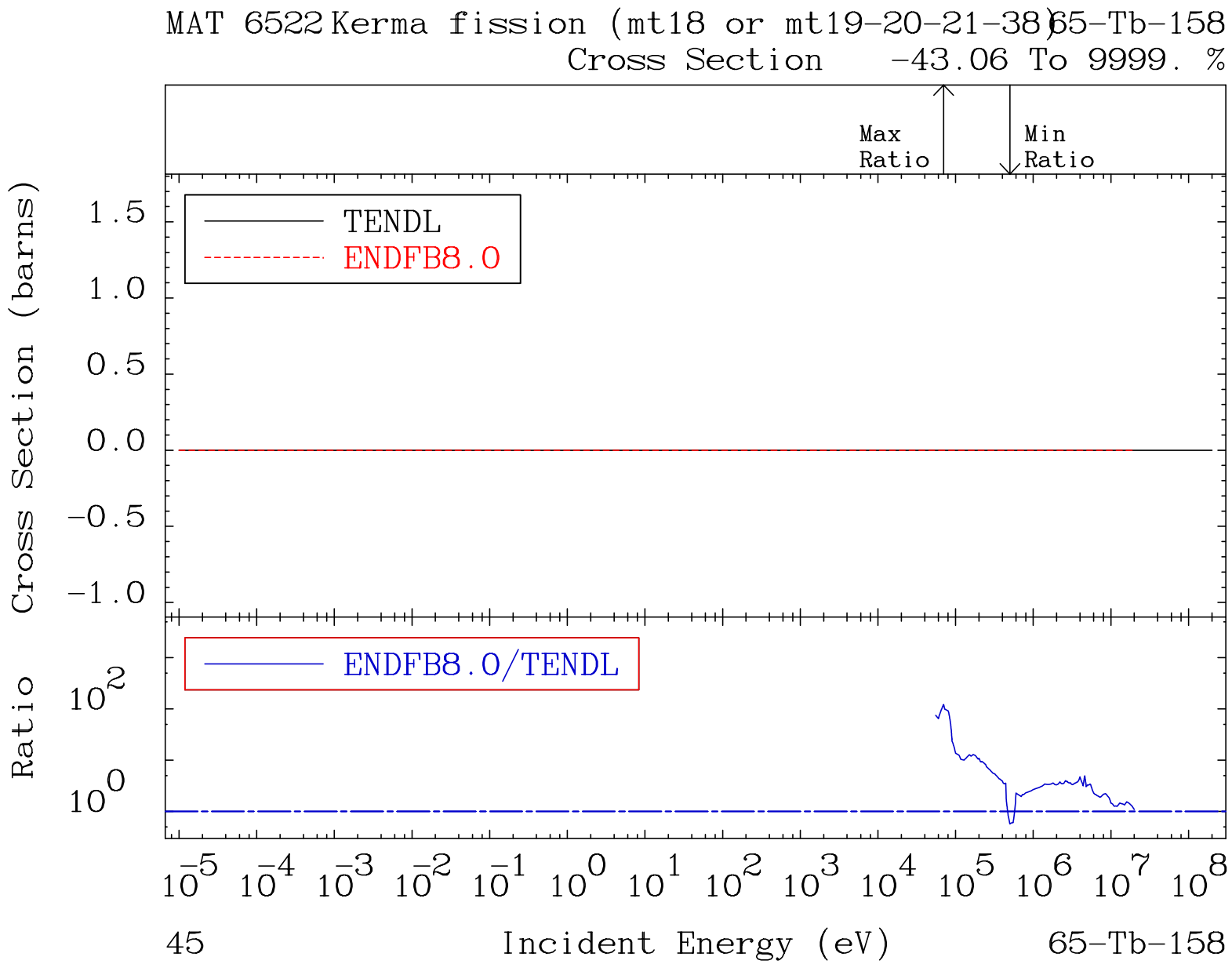

MAT 6522
He-4 Production
Cross Section
65-Tb-158
-42.26 To 9999. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
40
65-Tb-158

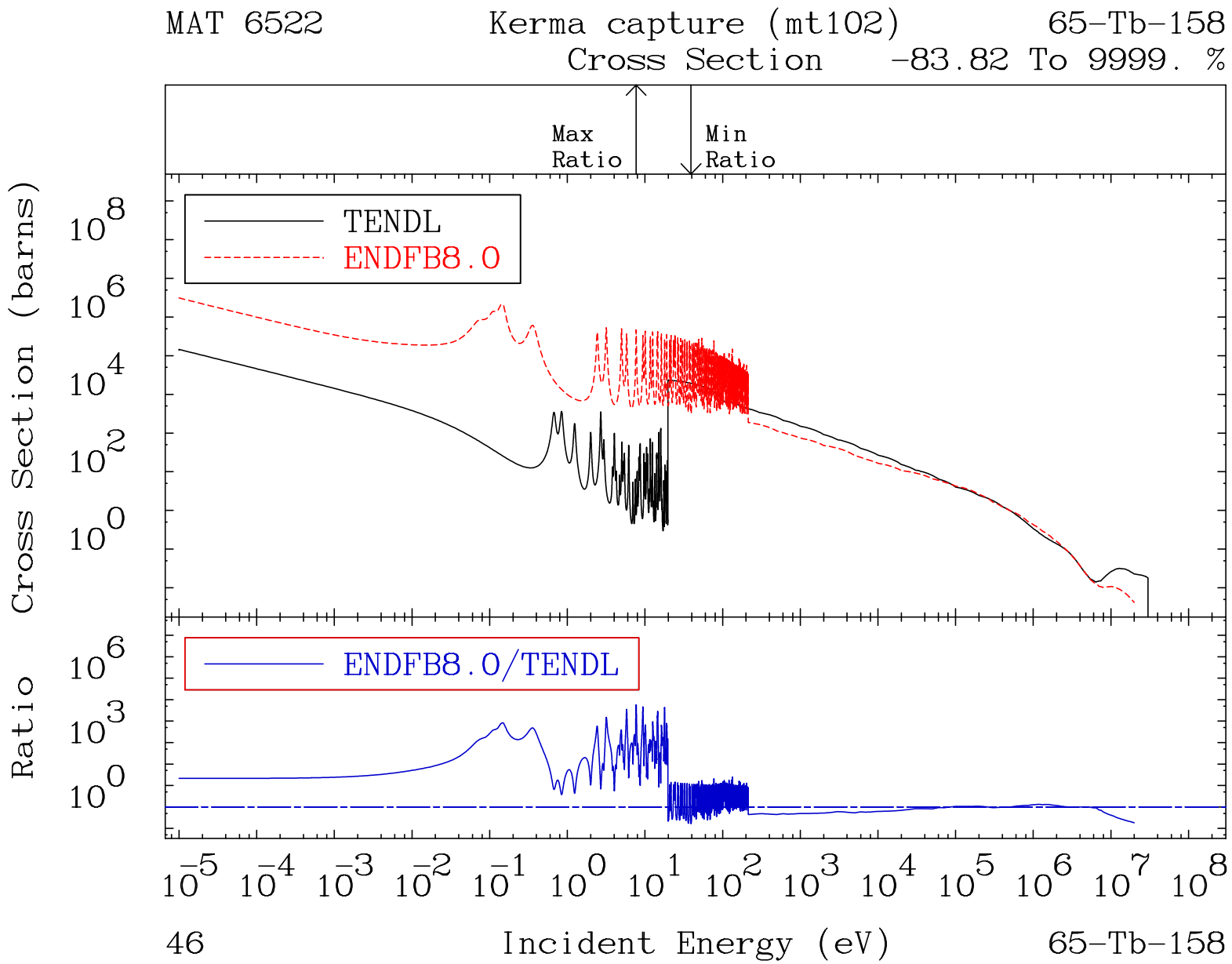

MAT 6522
Kerma total (eV-barns)
65-Tb-158
Cross Section -78.21 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
41
65-Tb-158

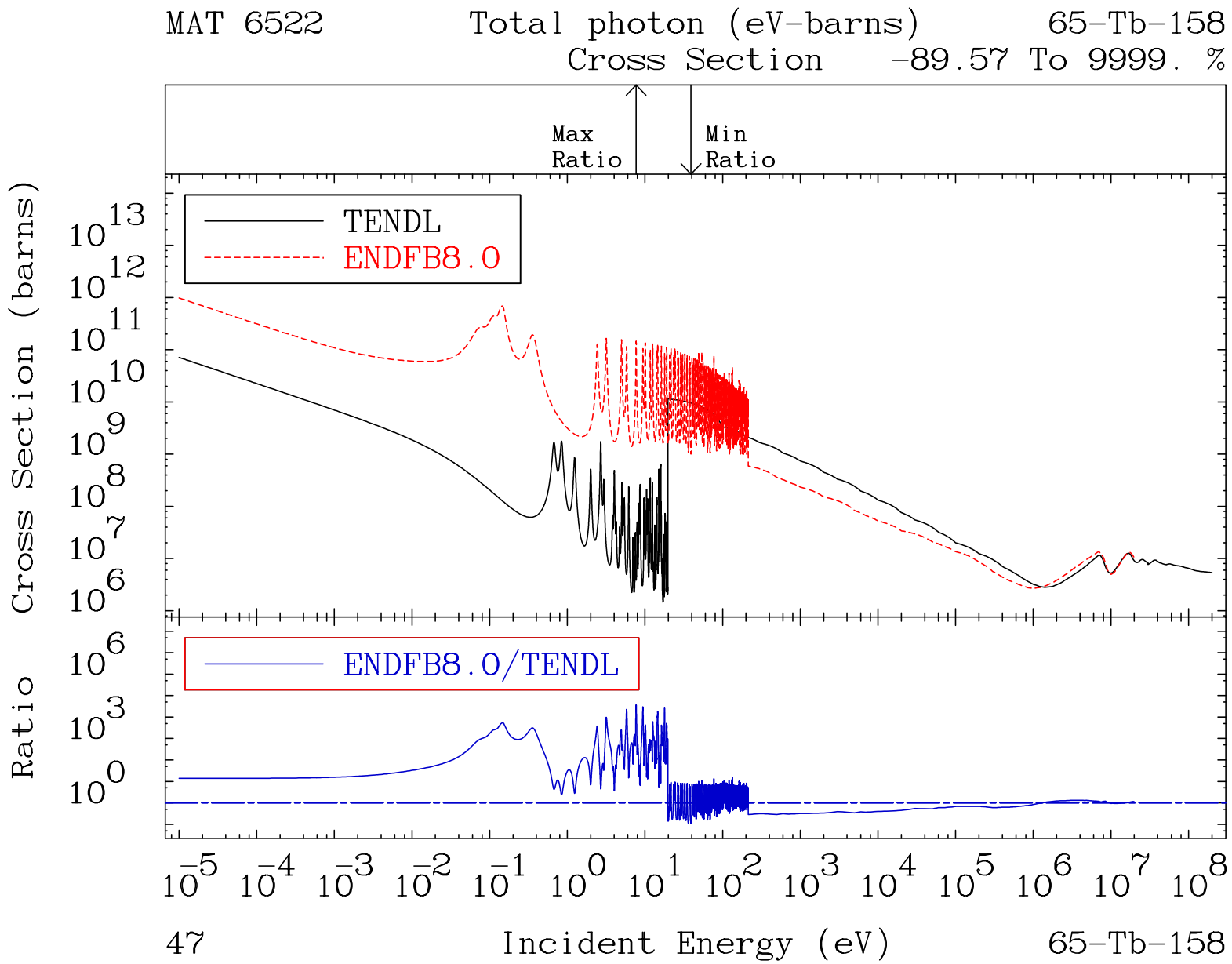

MAT 6522
Kerma elastic
Cross Section
65-Tb-158
-82.93 To 9999. %
Max
Ratio
Min
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
42
65-Tb-158

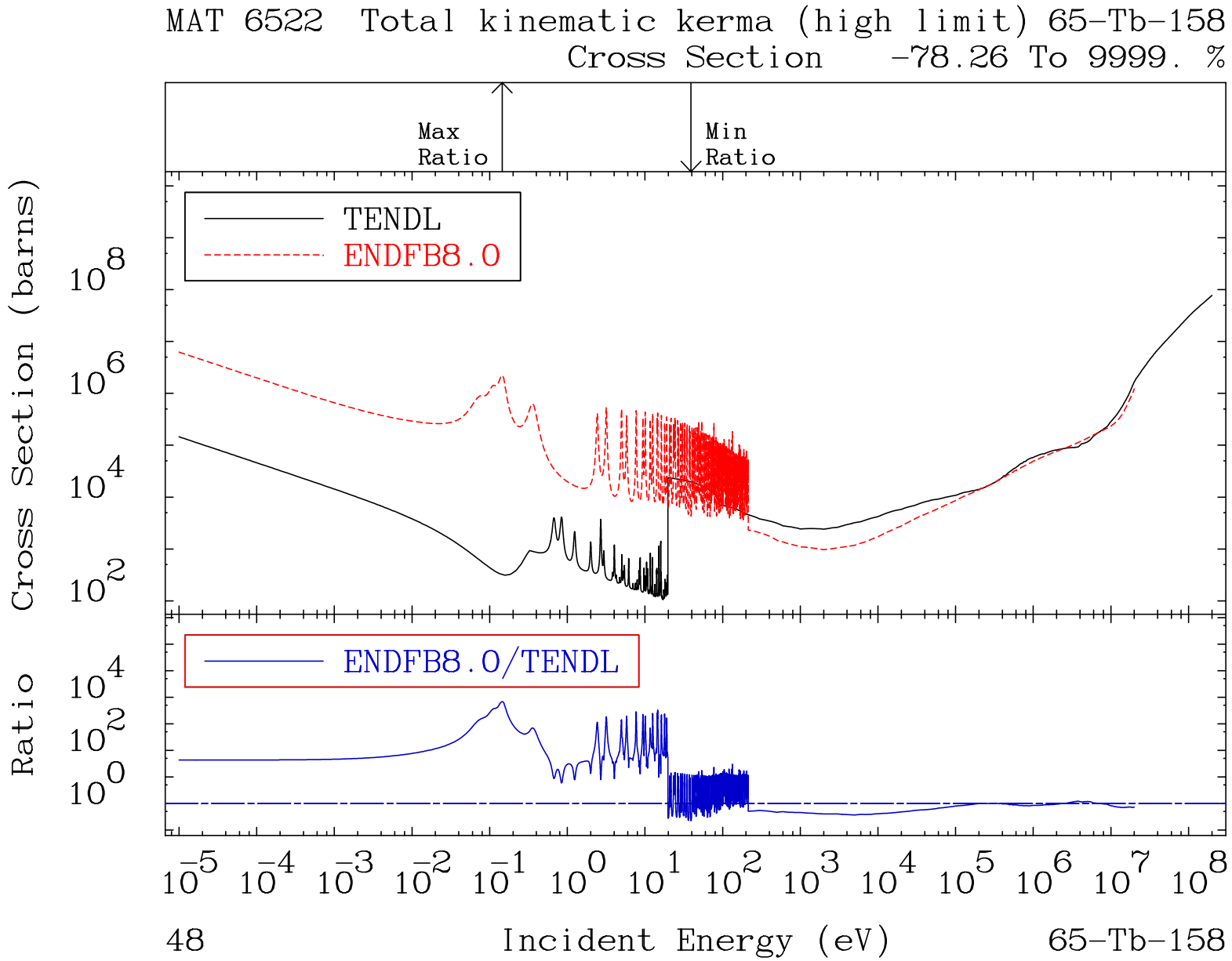

MAT 6522 Kerma non-elastic (all but mt2) 65-Tb-158
Cross Section -78.57 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
43
65-Tb-158

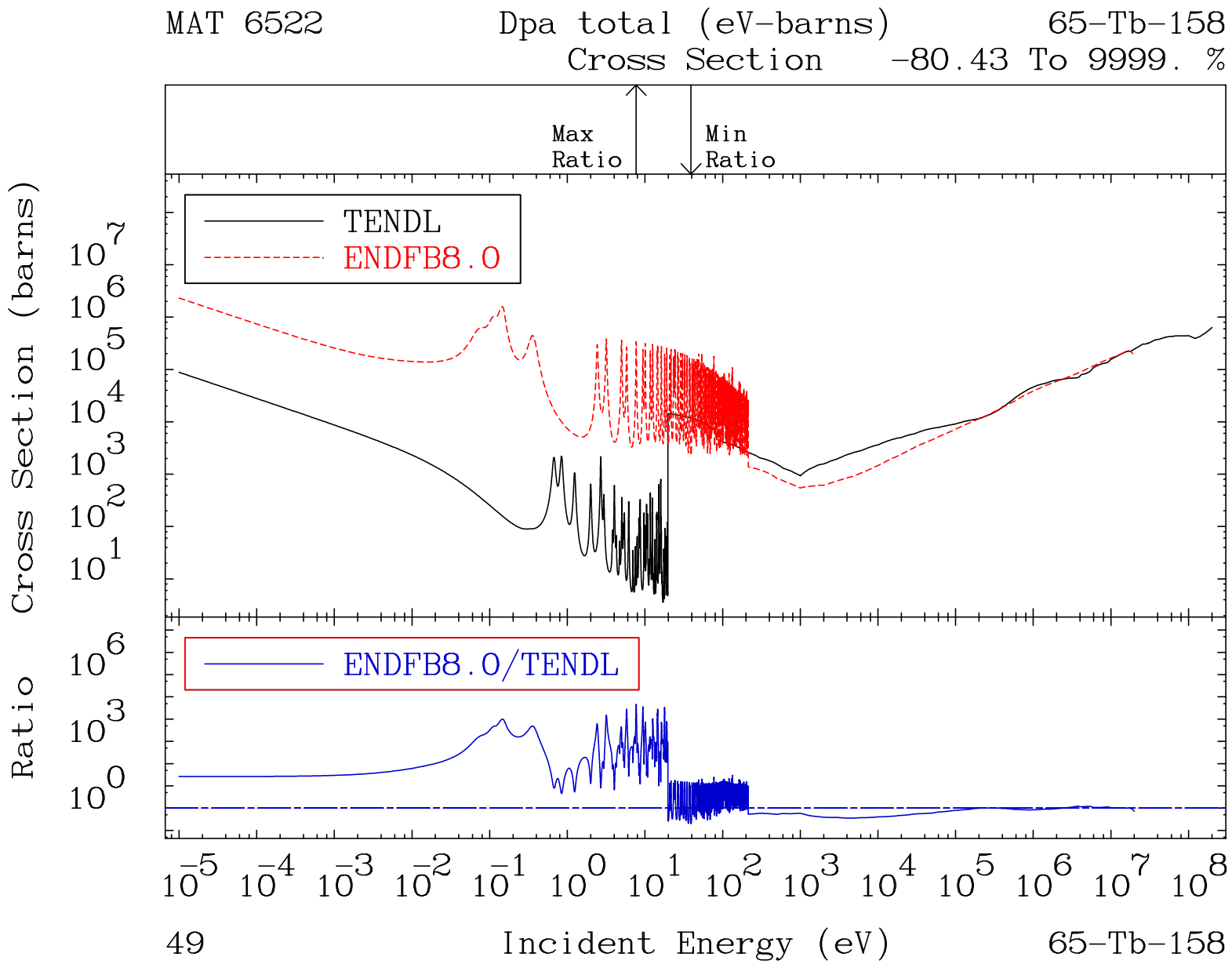

MAT 6522
Kerma inelastic (mt51-91)
65-Tb-158
Cross Section -43.06 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 55.392 keV
ENDFB8.0 Threshold 55.392 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
65-Tb-158

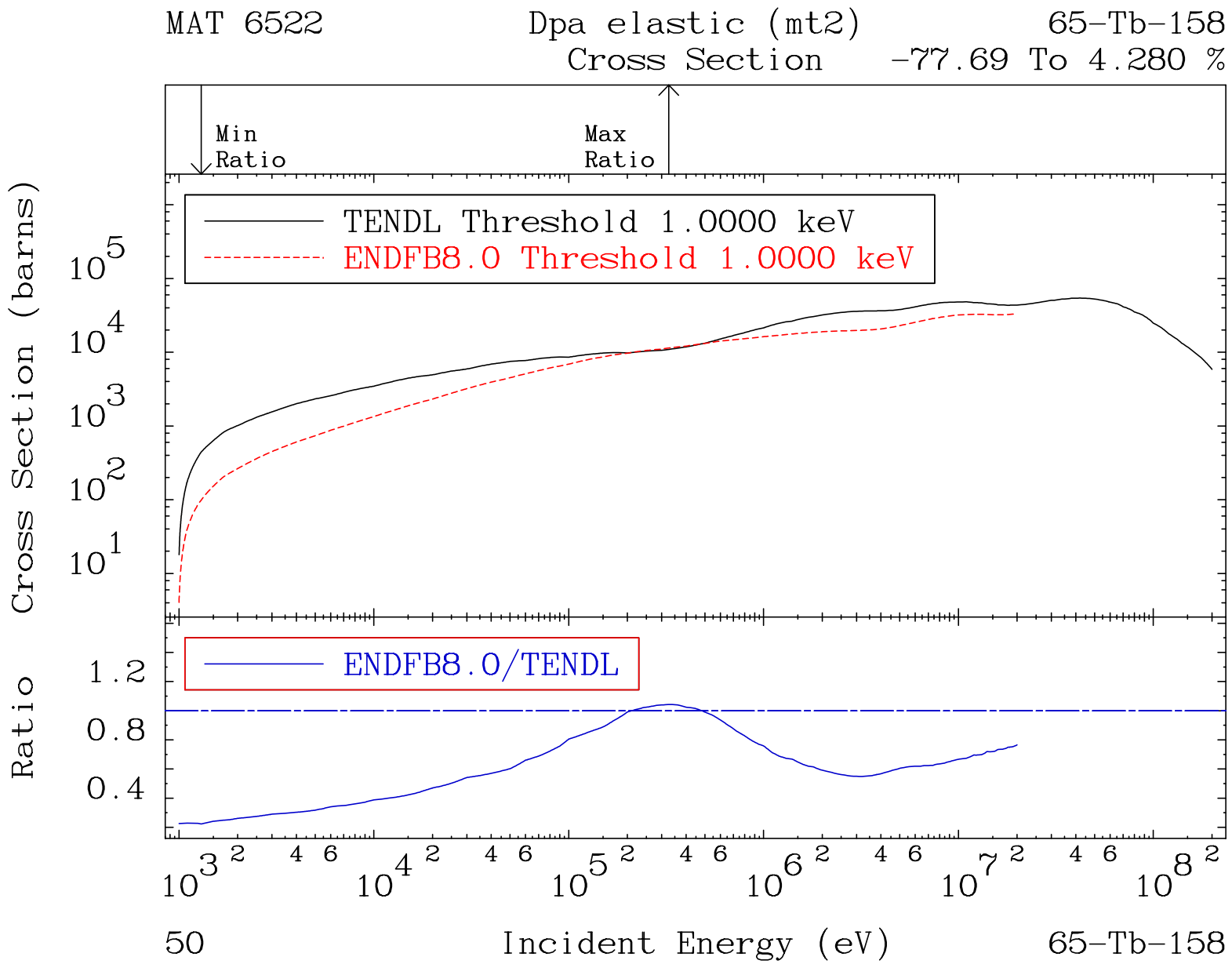

MAT 6522 Kerma fission (mt18 or mt19-20-21-38) 65-Tb-158
Cross Section -43.06 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^2
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
65-Tb-158

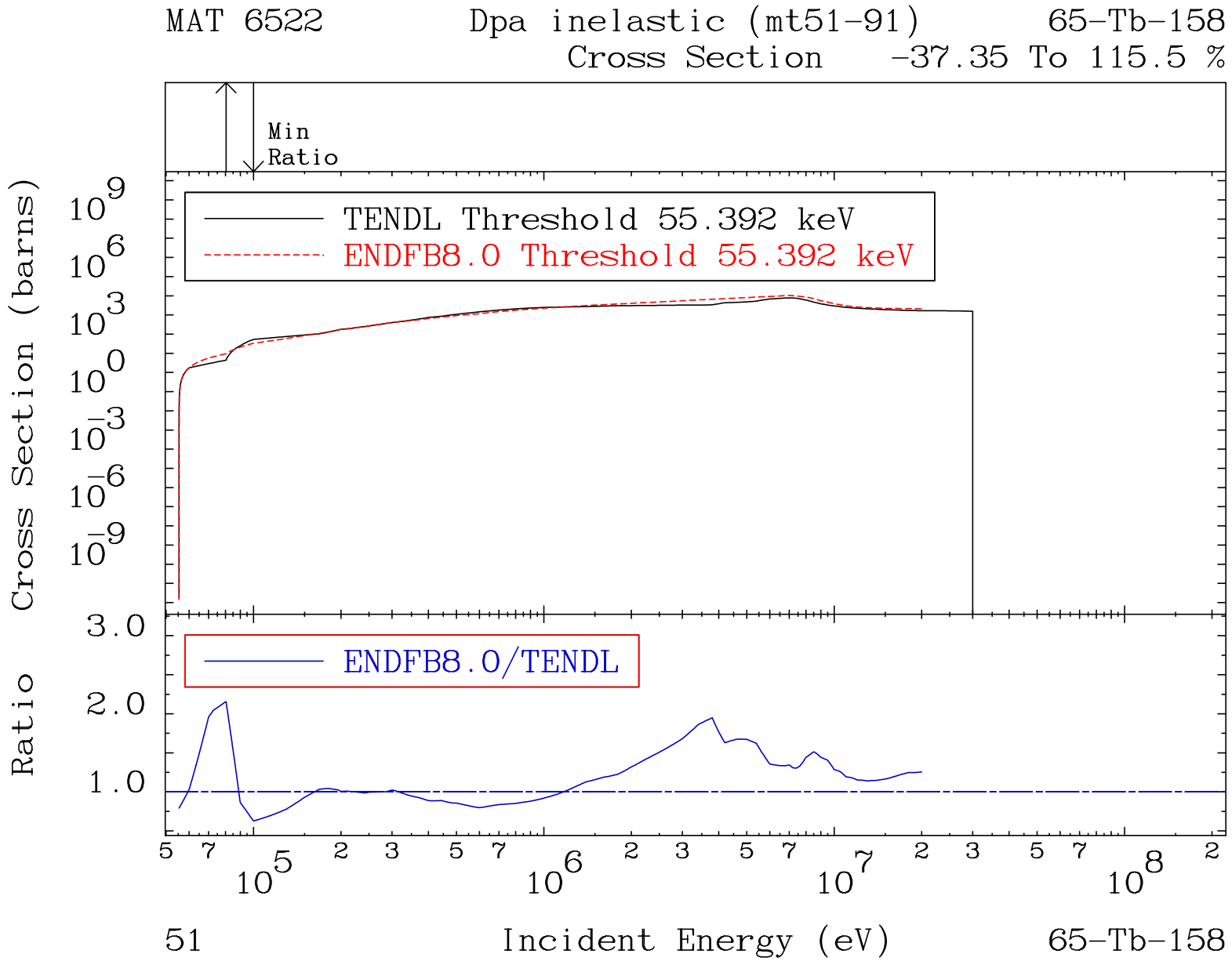

MAT 6522
Kerma capture (mt102)
65-Tb-158
Cross Section -83.82 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
65-Tb-158

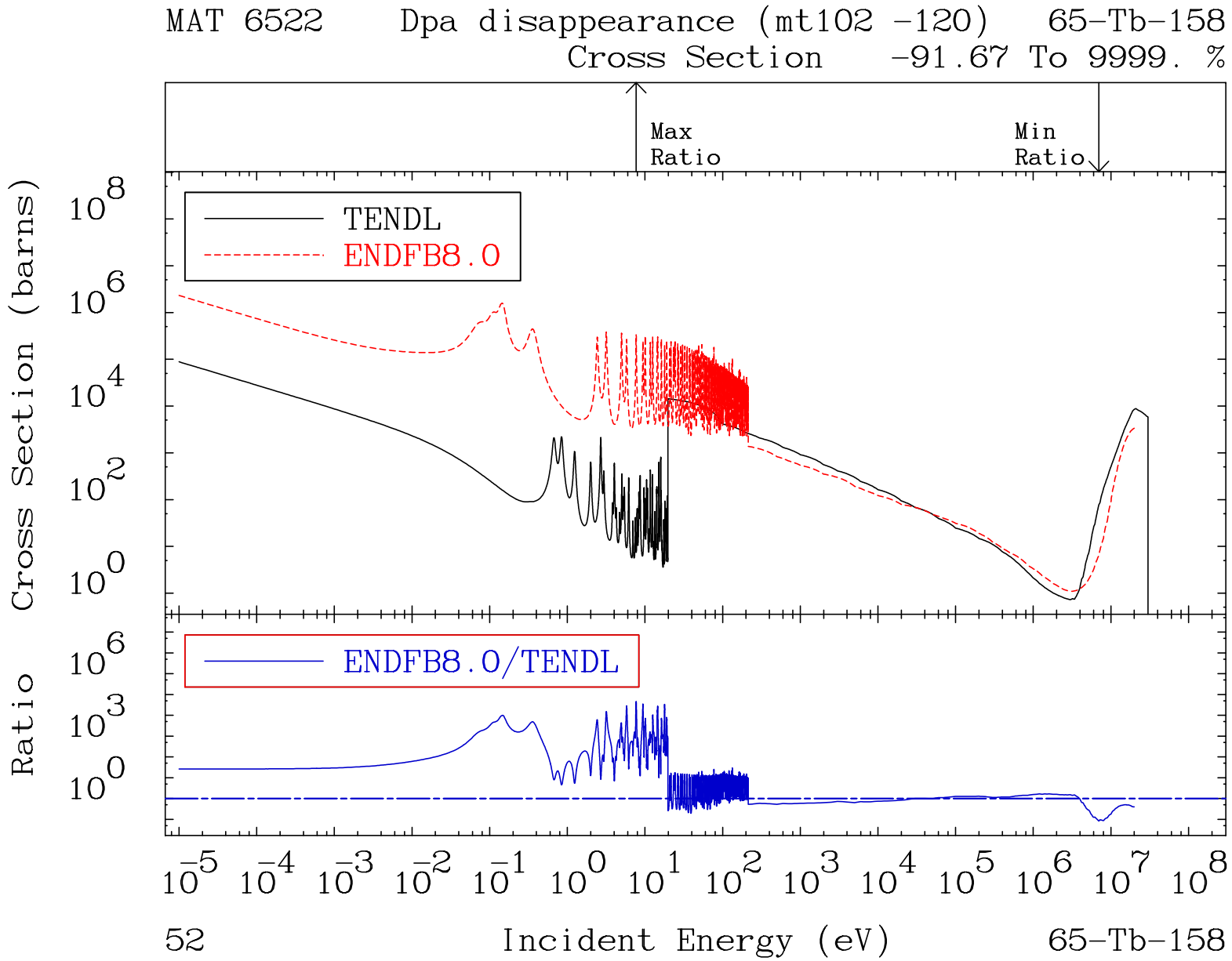

MAT 6522
Total photon (eV-barns)
65-Tb-158
Cross Section -89.57 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
65-Tb-158

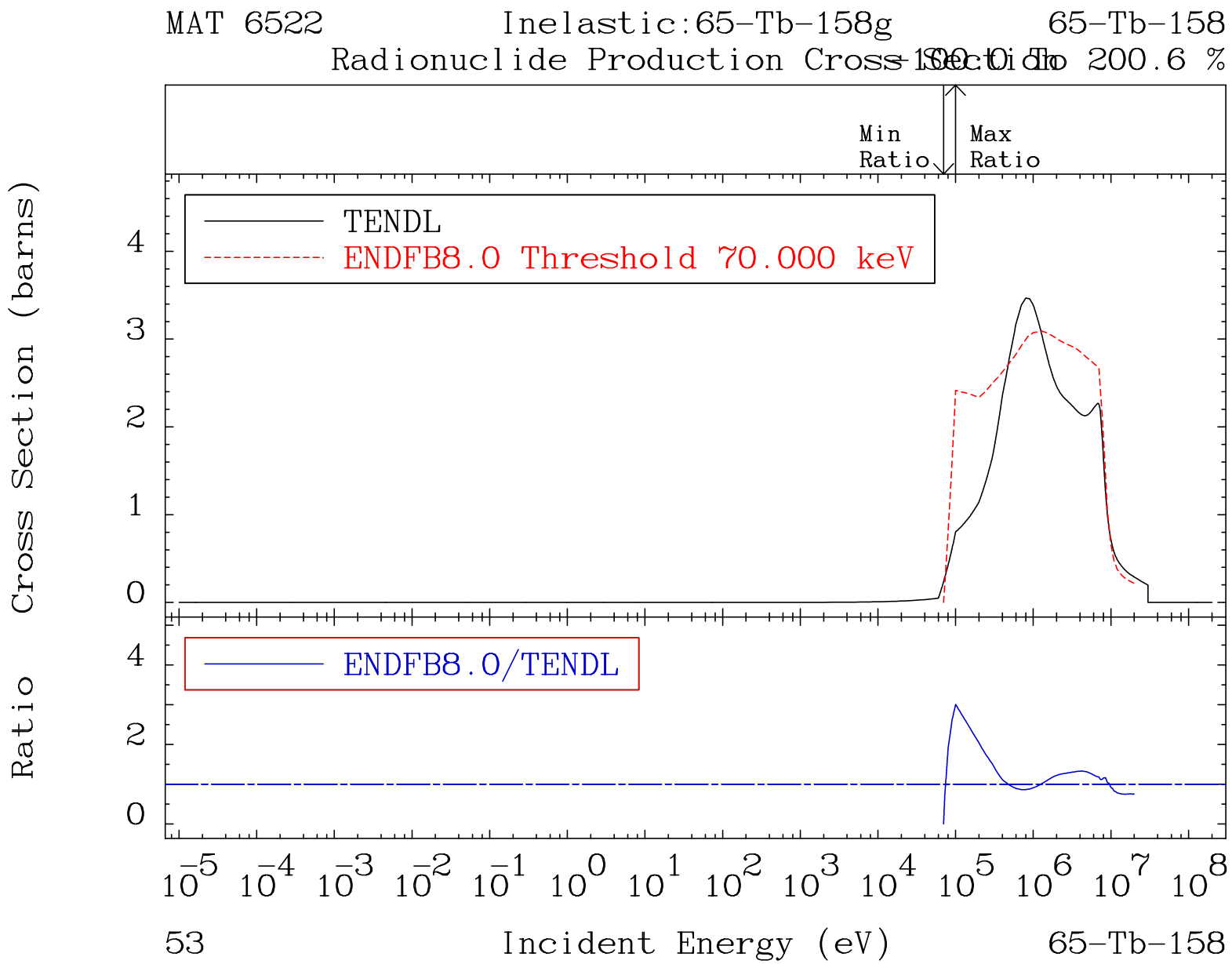

MAT 6522 Total kinematic kerma (high limit) 65-Tb-158
Cross Section -78.26 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
48
65-Tb-158

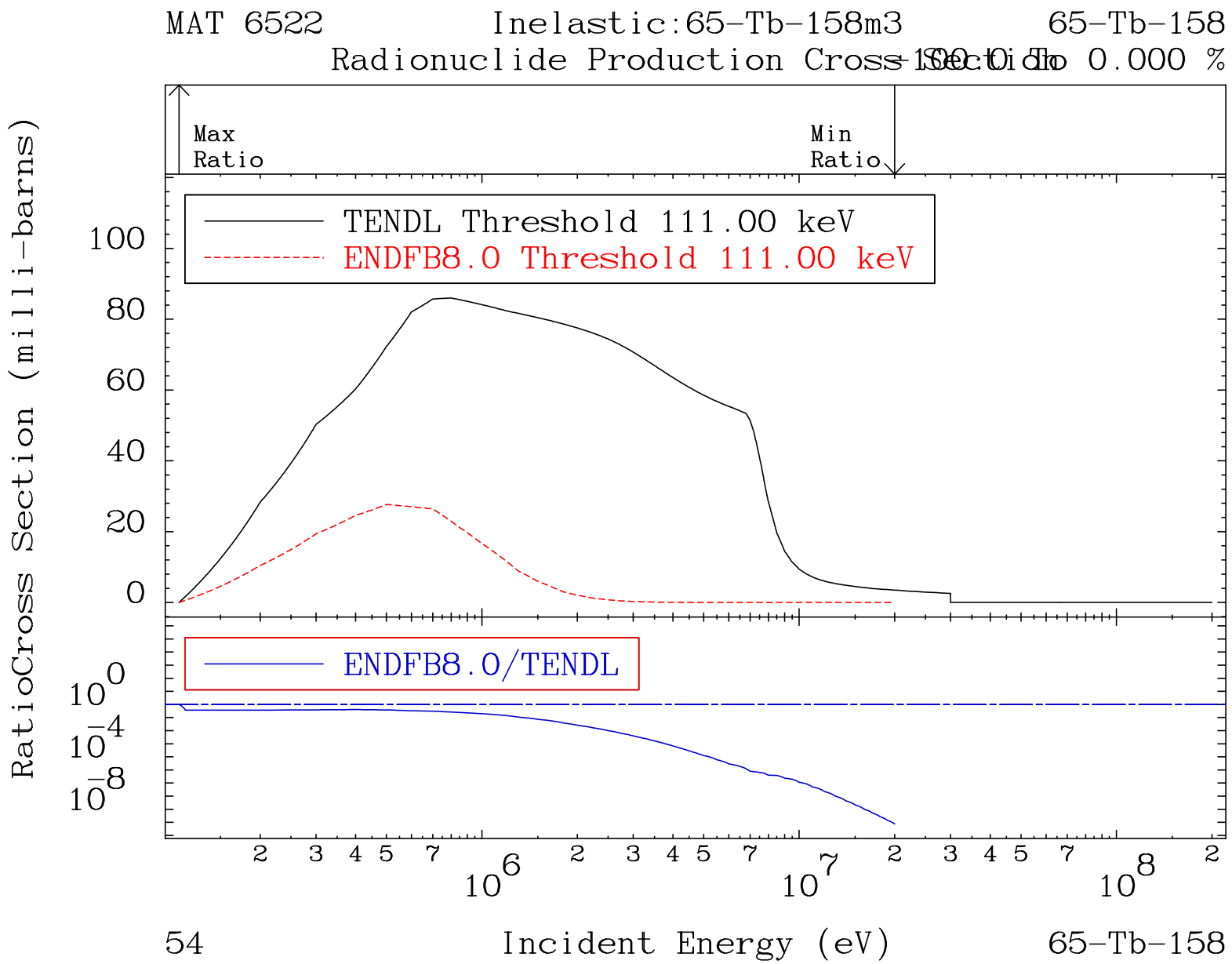

MAT 6522
Dpa total (eV-barns)
65-Tb-158
Cross Section -80.43 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
65-Tb-158


MAT 6522
Dpa elastic (mt2)
Cross Section
65-Tb-158
-77.69 To 4.280 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0000 keV
ENDFB8.0 Threshold 1.0000 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
50
65-Tb-158


MAT 6522
Dpa inelastic (mt51-91)
65-Tb-158
Cross Section -37.35 To 115.5 %
Min
Ratio
TENDL Threshold 55.392 keV
ENDFB8.0 Threshold 55.392 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
65-Tb-158


MAT 6522 Dpa disappearance (mt102 -120) 65-Tb-158
Cross Section -91.67 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
65-Tb-158


MAT 6522
Inelastic:65-Tb-158g
65-Tb-158
Radionuclide Production Cross Section
Min Ratio = 100.0 %
Max Ratio = 200.6 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0 Threshold 70.000 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
65-Tb-158


MAT 6522
Inelastic:65-Tb-158m3
65-Tb-158
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 111.00 keV
ENDFB8.0 Threshold 111.00 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
65-Tb-158