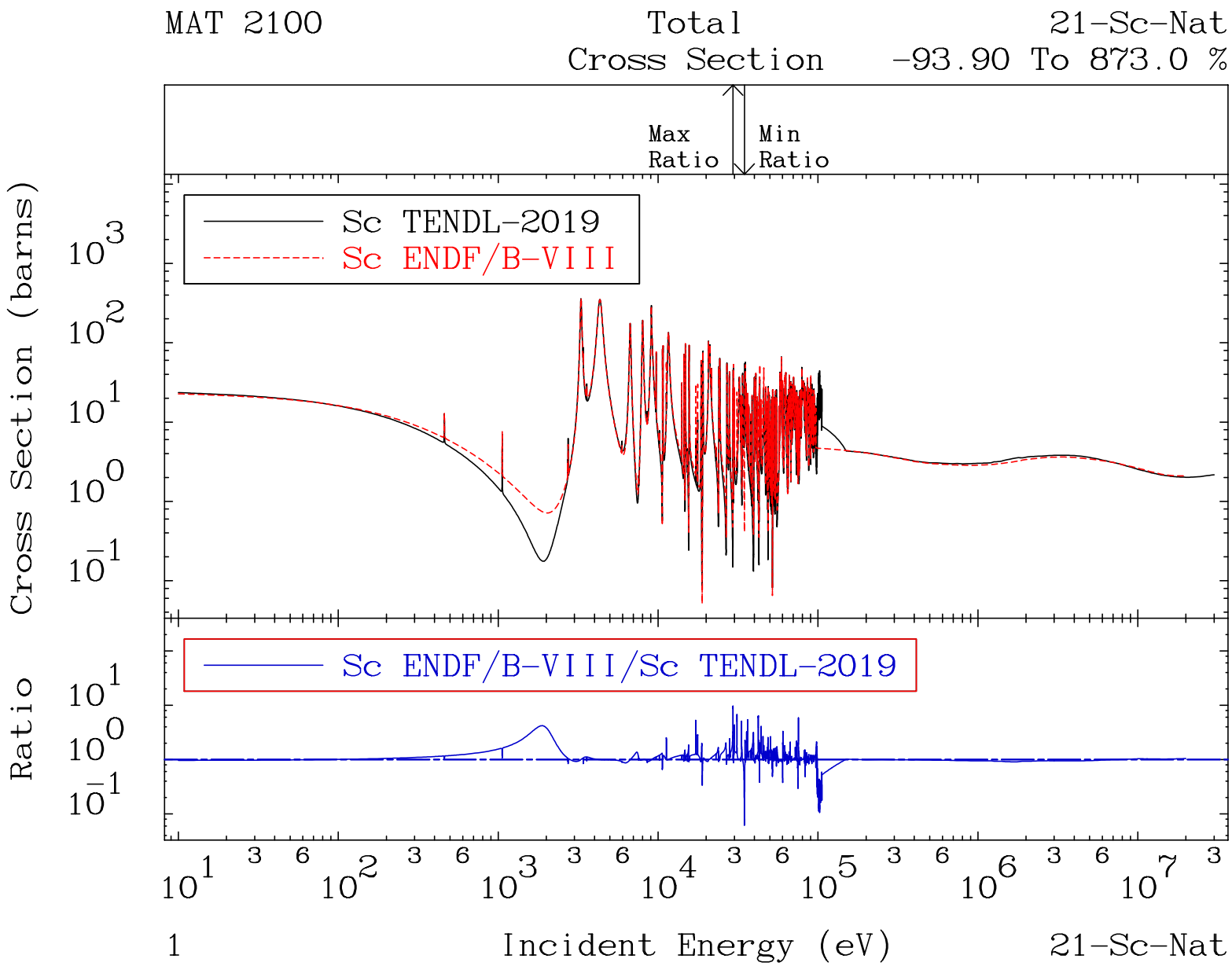
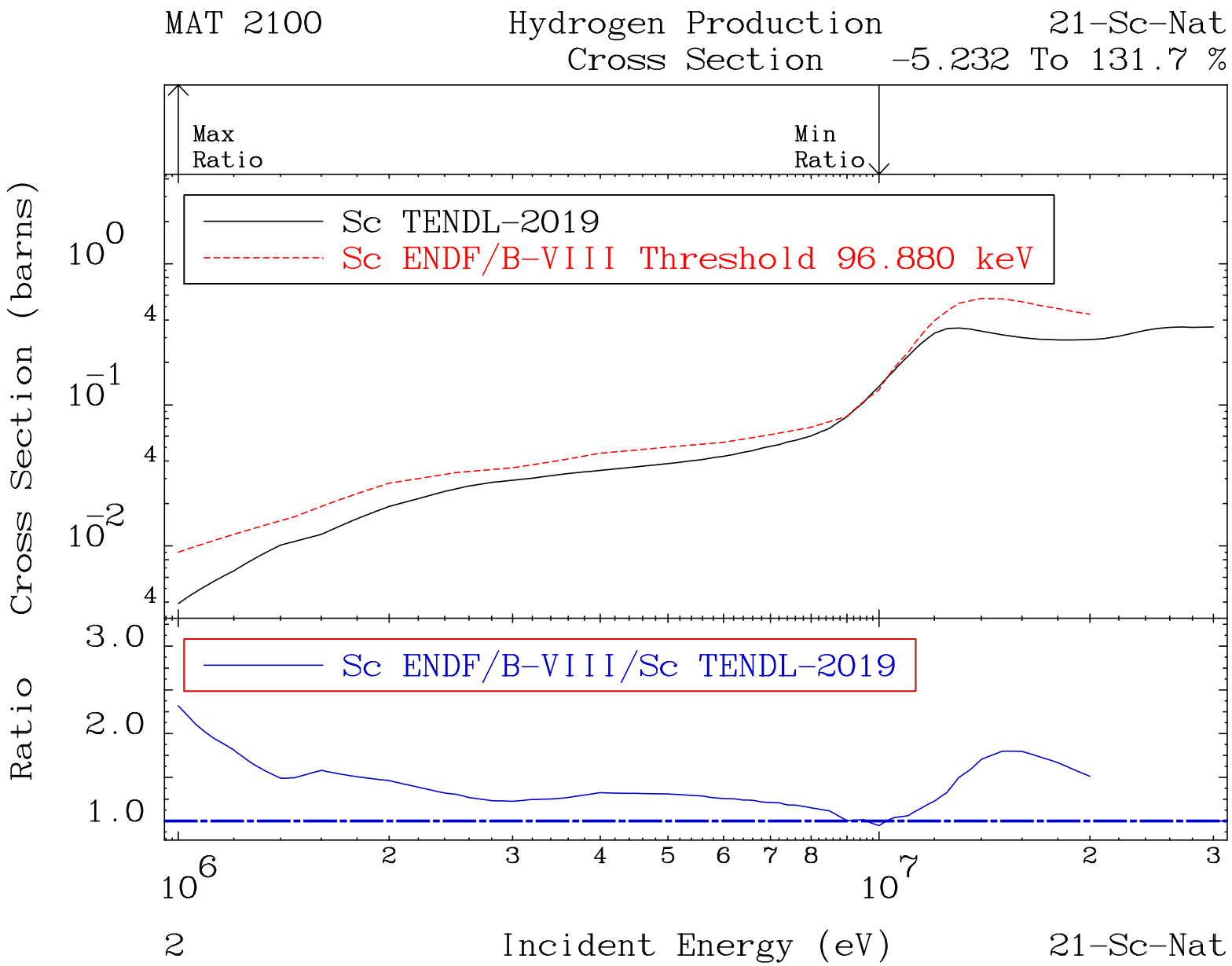
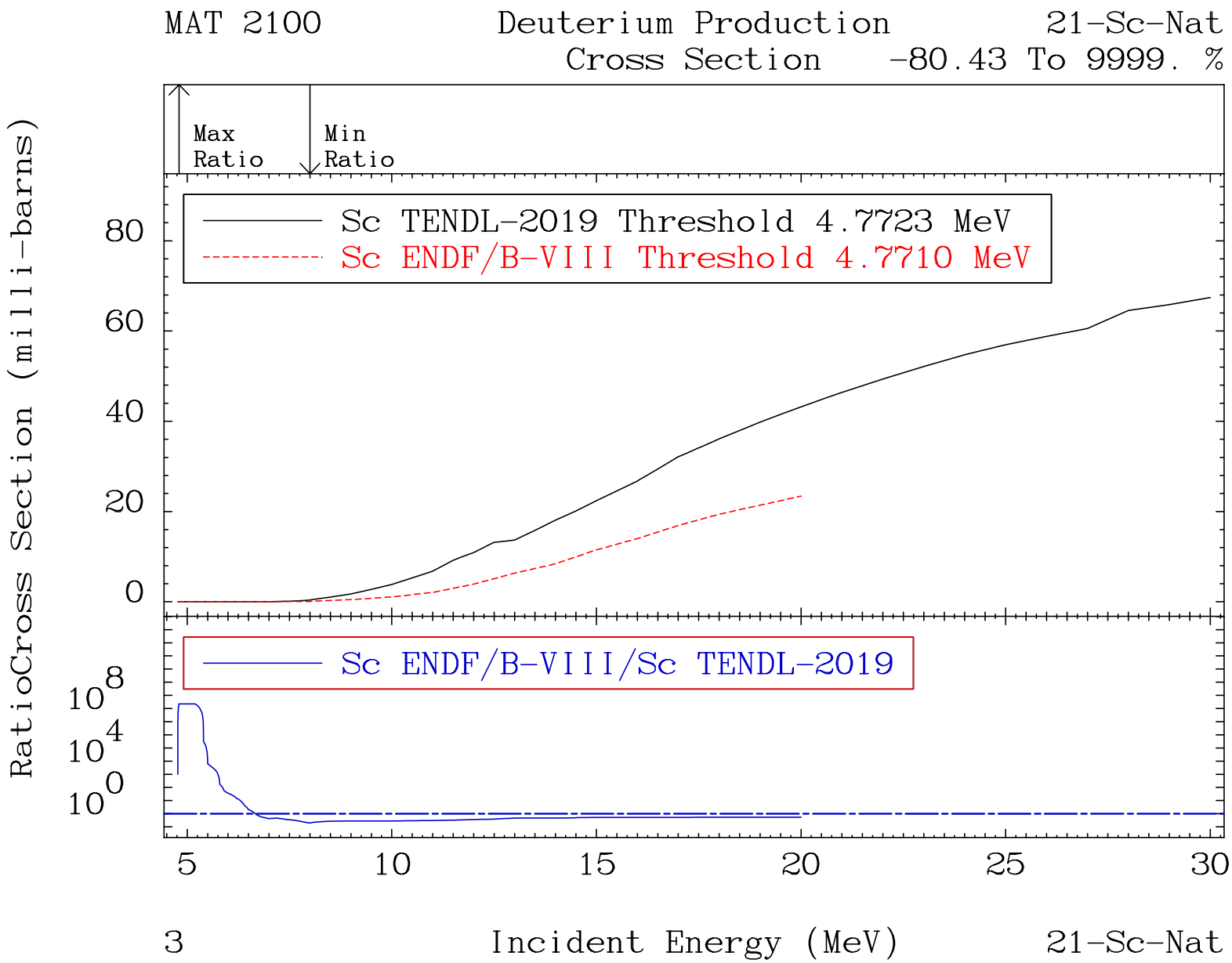
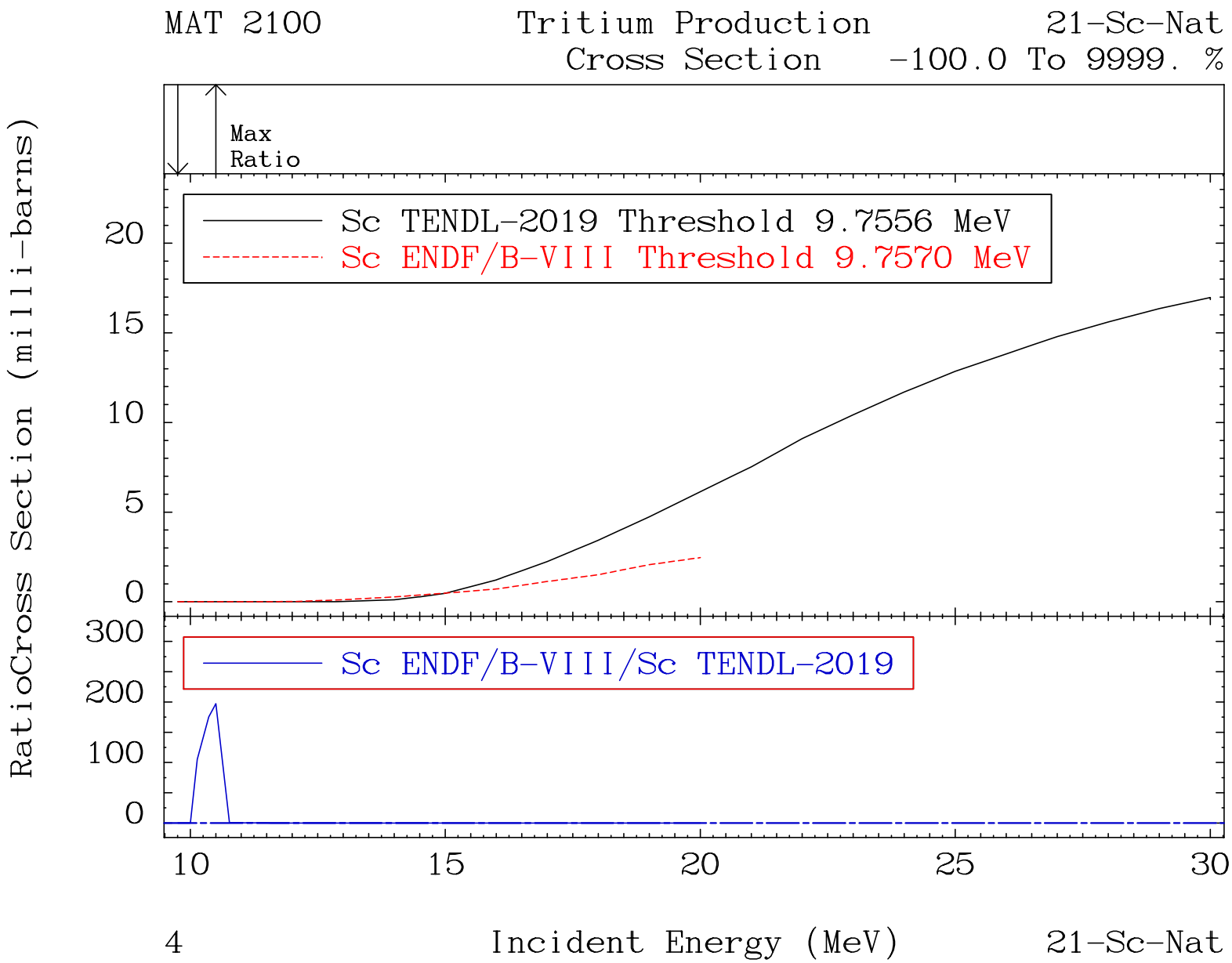
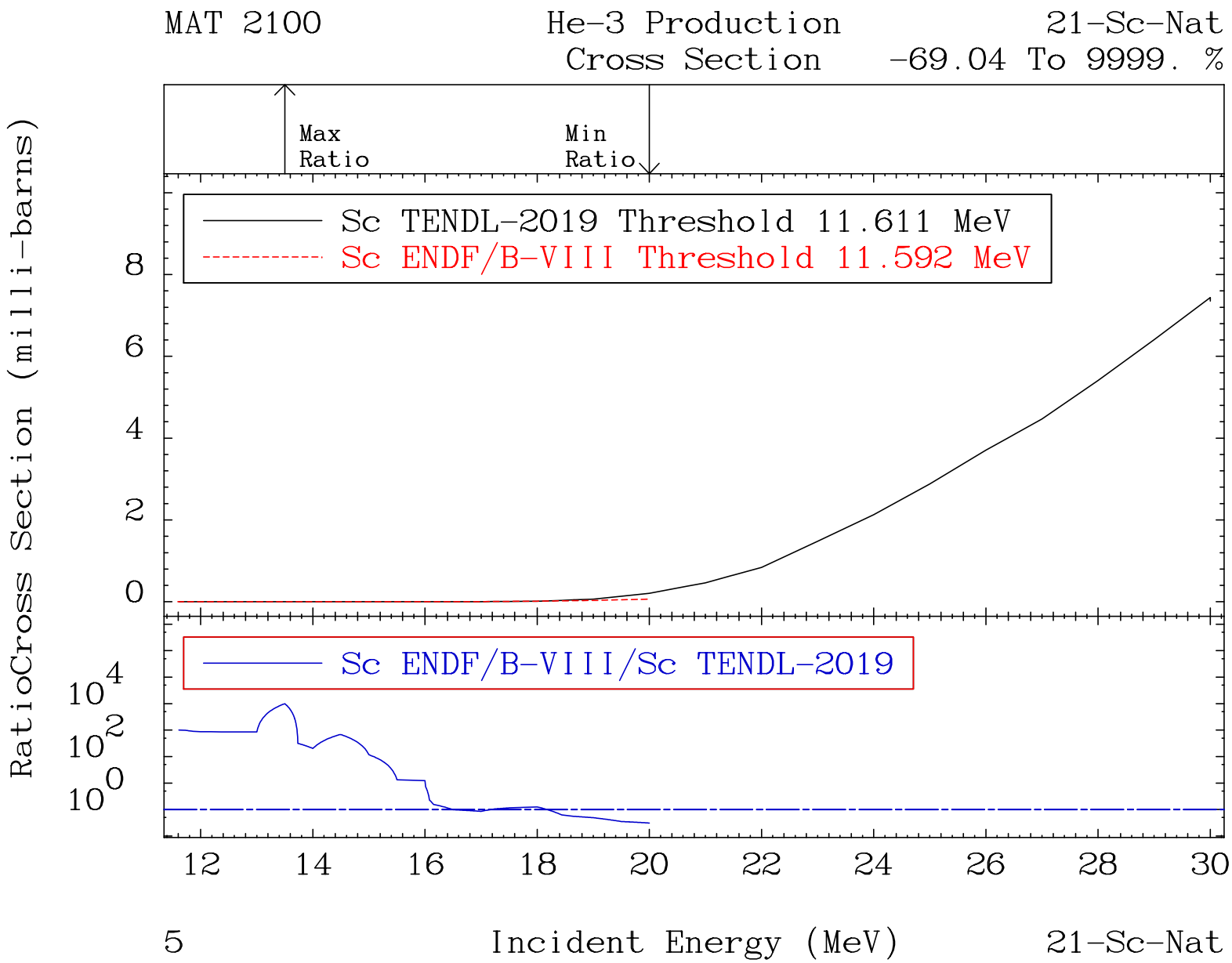
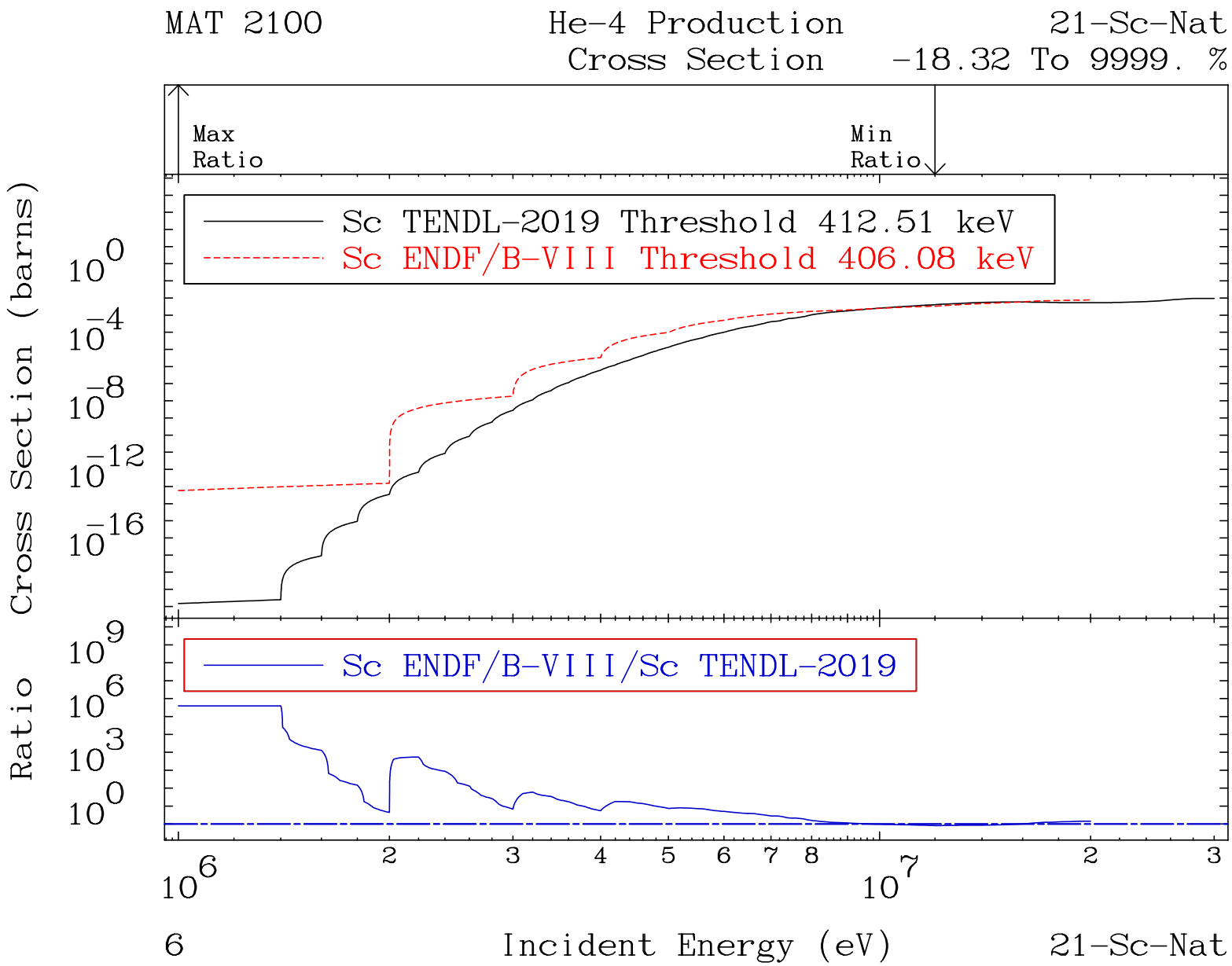

MAT 2100
Total
Cross Section
21-Sc-Nat
-93.90 To 873.0 %
Max
Ratio
Min
Ratio
Sc TENDL-2019
Sc ENDF/B-VIII
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
1
21-Sc-Nat

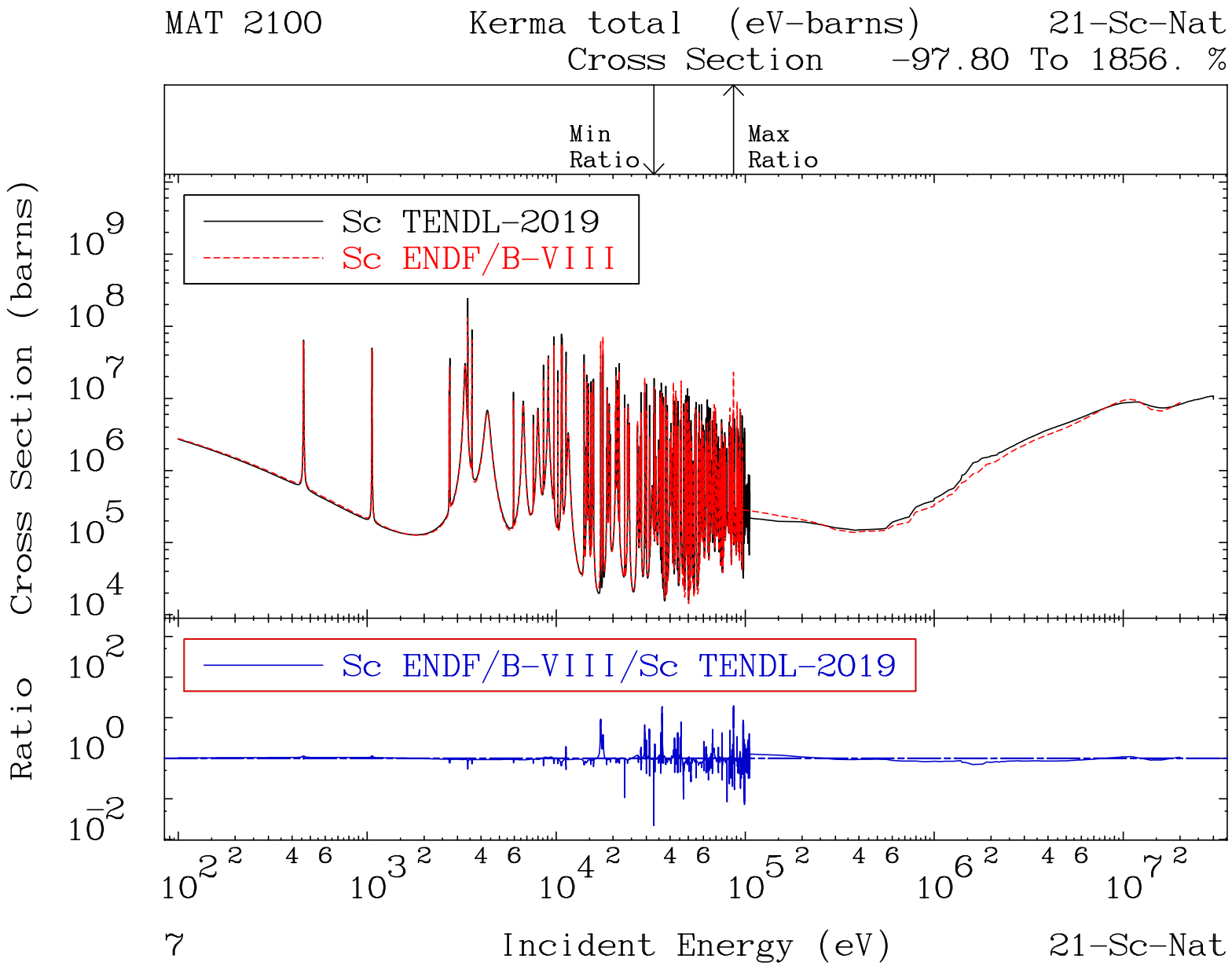

MAT 2100
Hydrogen Production
Cross Section
21-Sc-Nat
-5.232 To 131.7 %
Max
Ratio
Min
Ratio
Sc TENDL-2019
Sc ENDF/B-VIII Threshold 96.880 keV
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
21-Sc-Nat

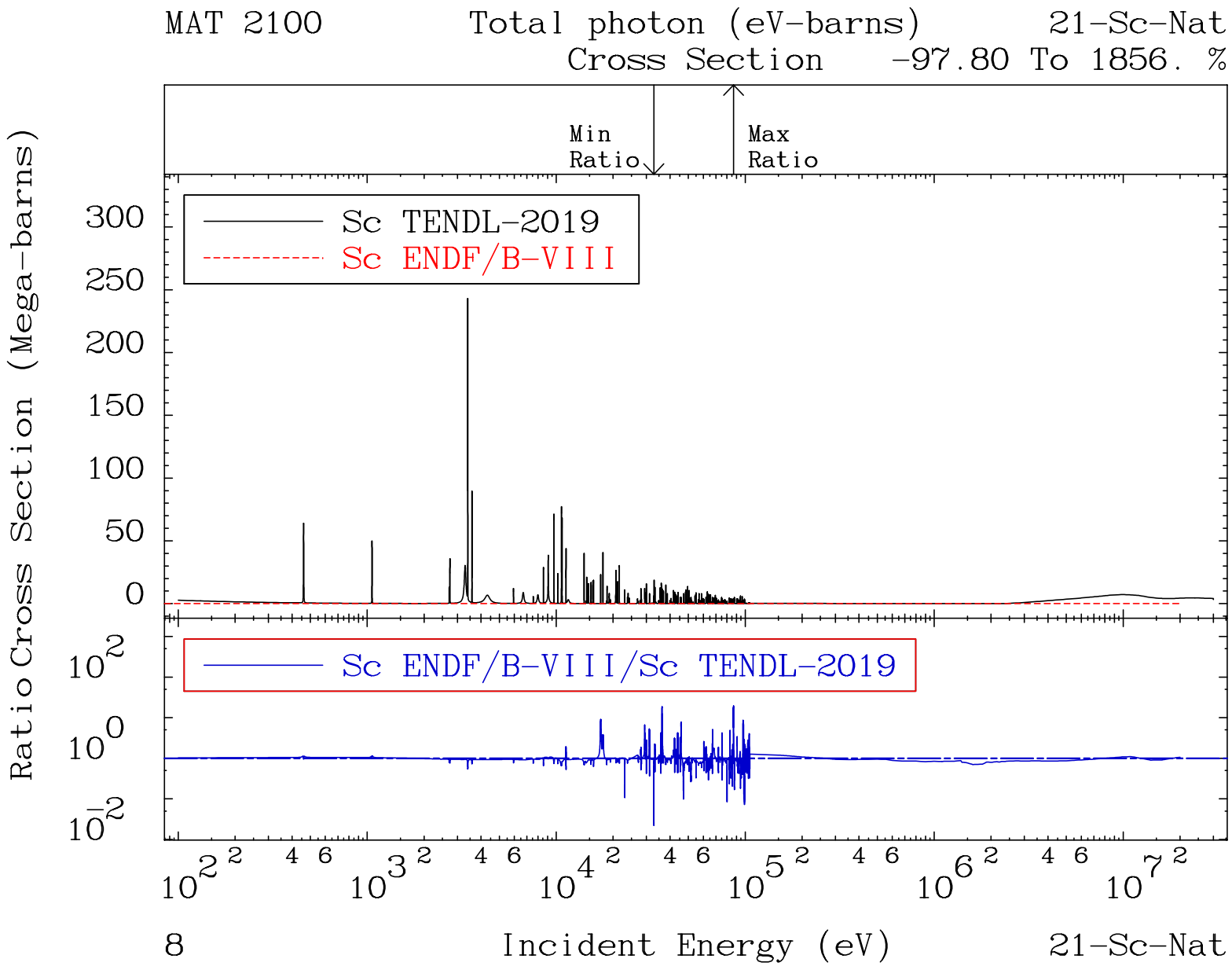

MAT 2100
Deuterium Production
Cross Section
21-Sc-Nat
-80.43 To 9999. %
Max Ratio
Min Ratio
Sc TENDL-2019 Threshold 4.7723 MeV
Sc ENDF/B-VIII Threshold 4.7710 MeV
Sc ENDF/B-VIII/Sc TENDL-2019
RatioCross Section (milli-barns)
0
20
40
60
80
10^8
10^4
10^0
5
10
15
20
25
30
3
Incident Energy (MeV)
21-Sc-Nat

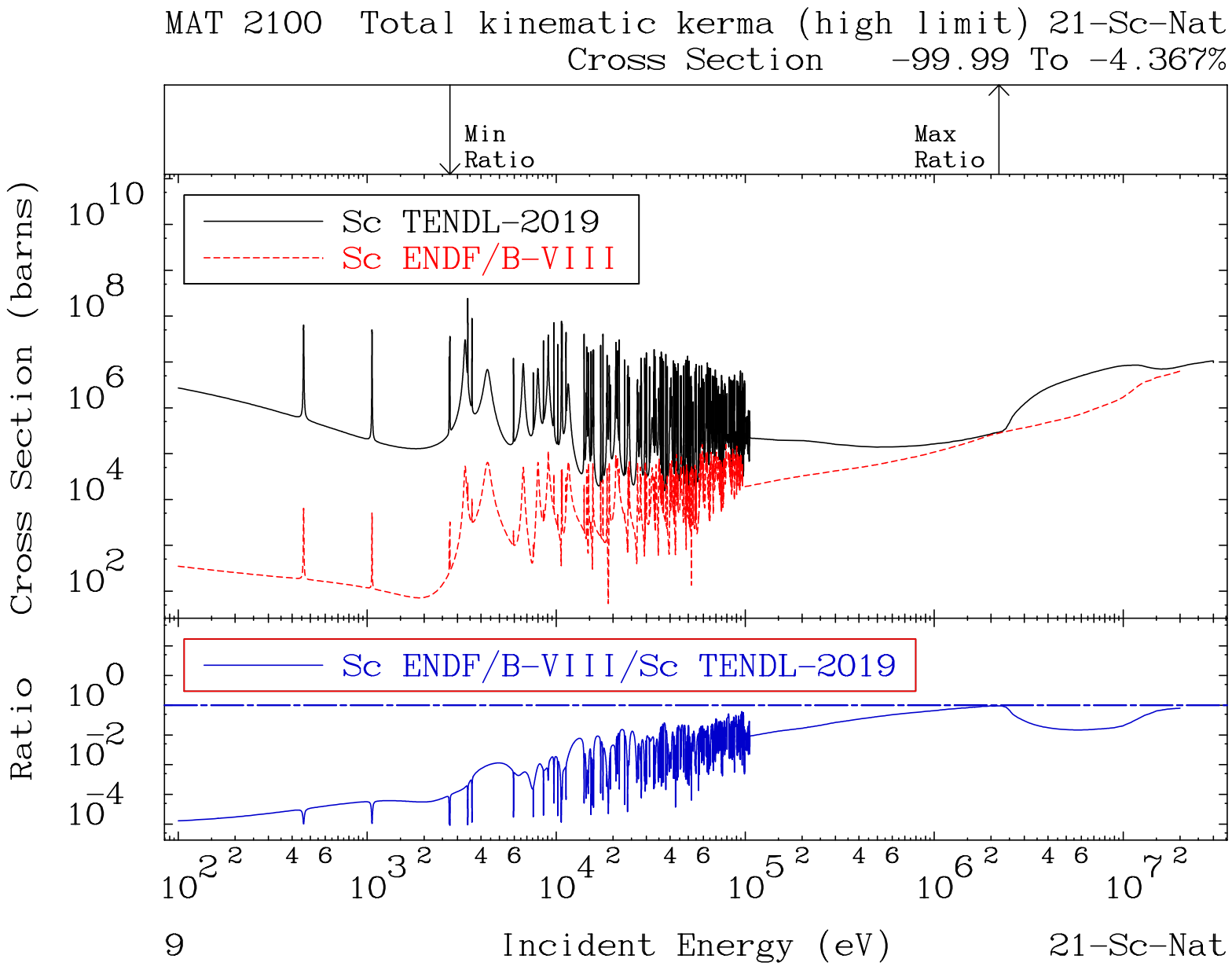

MAT 2100
Tritium Production
Cross Section
21-Sc-Nat
-100.0 To 9999. %
Max
Ratio
Sc TENDL-2019 Threshold 9.7556 MeV
Sc ENDF/B-VIII Threshold 9.7570 MeV
Sc ENDF/B-VIII/Sc TENDL-2019
RatioCross Section (milli-barns)
0
5
10
15
20
0
100
200
300
10
15
20
25
30
4
Incident Energy (MeV)
21-Sc-Nat

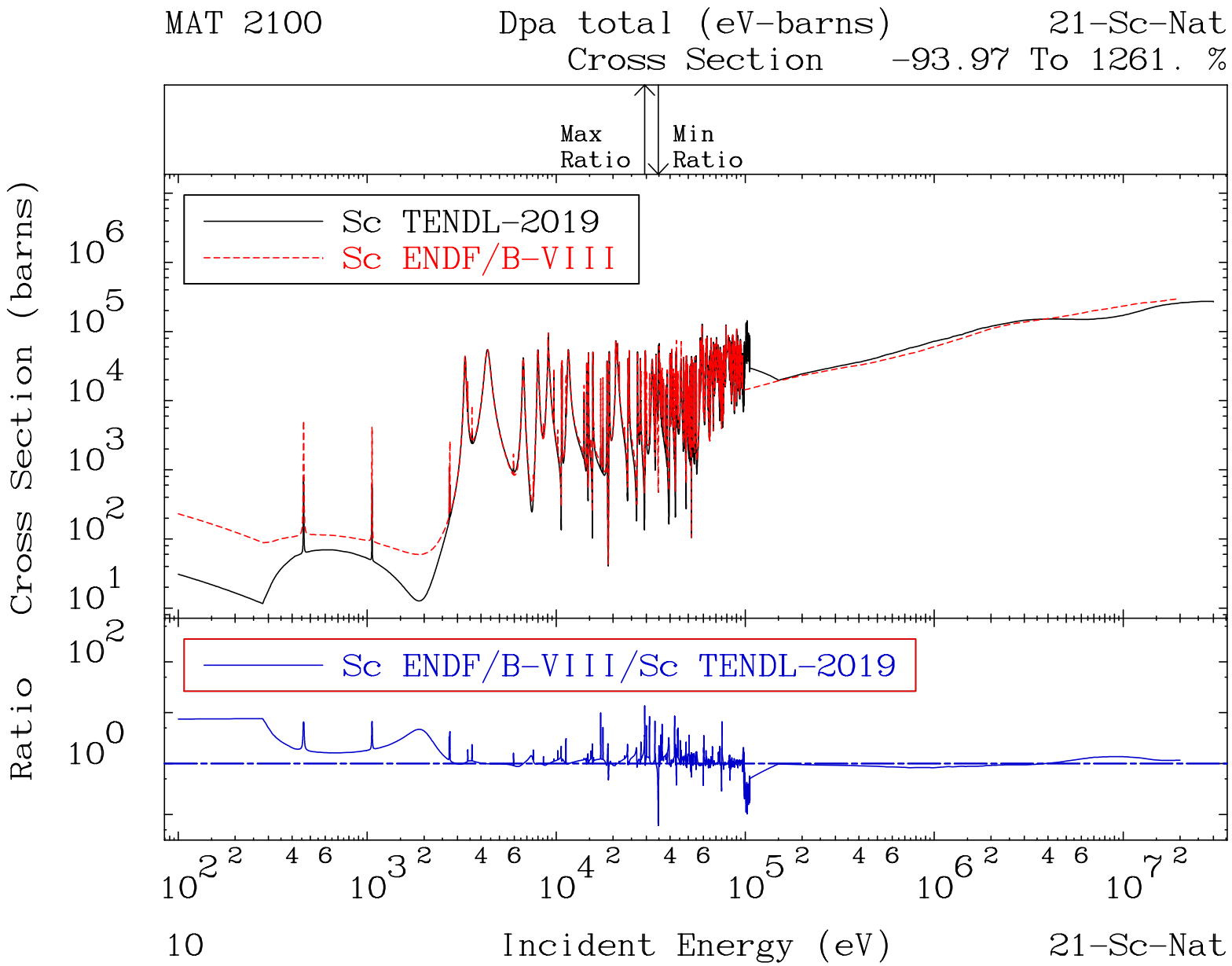

MAT 2100
He-3 Production
Cross Section
21-Sc-Nat
-69.04 To 9999. %
Max
Ratio
Min
Ratio
Sc TENDL-2019 Threshold 11.611 MeV
Sc ENDF/B-VIII Threshold 11.592 MeV
Sc ENDF/B-VIII/Sc TENDL-2019
RatioCross Section (milli-barns)
0
2
4
6
8
10^4
10^2
10^0
12
14
16
18
20
22
24
26
28
30
Incident Energy (MeV)
5
21-Sc-Nat

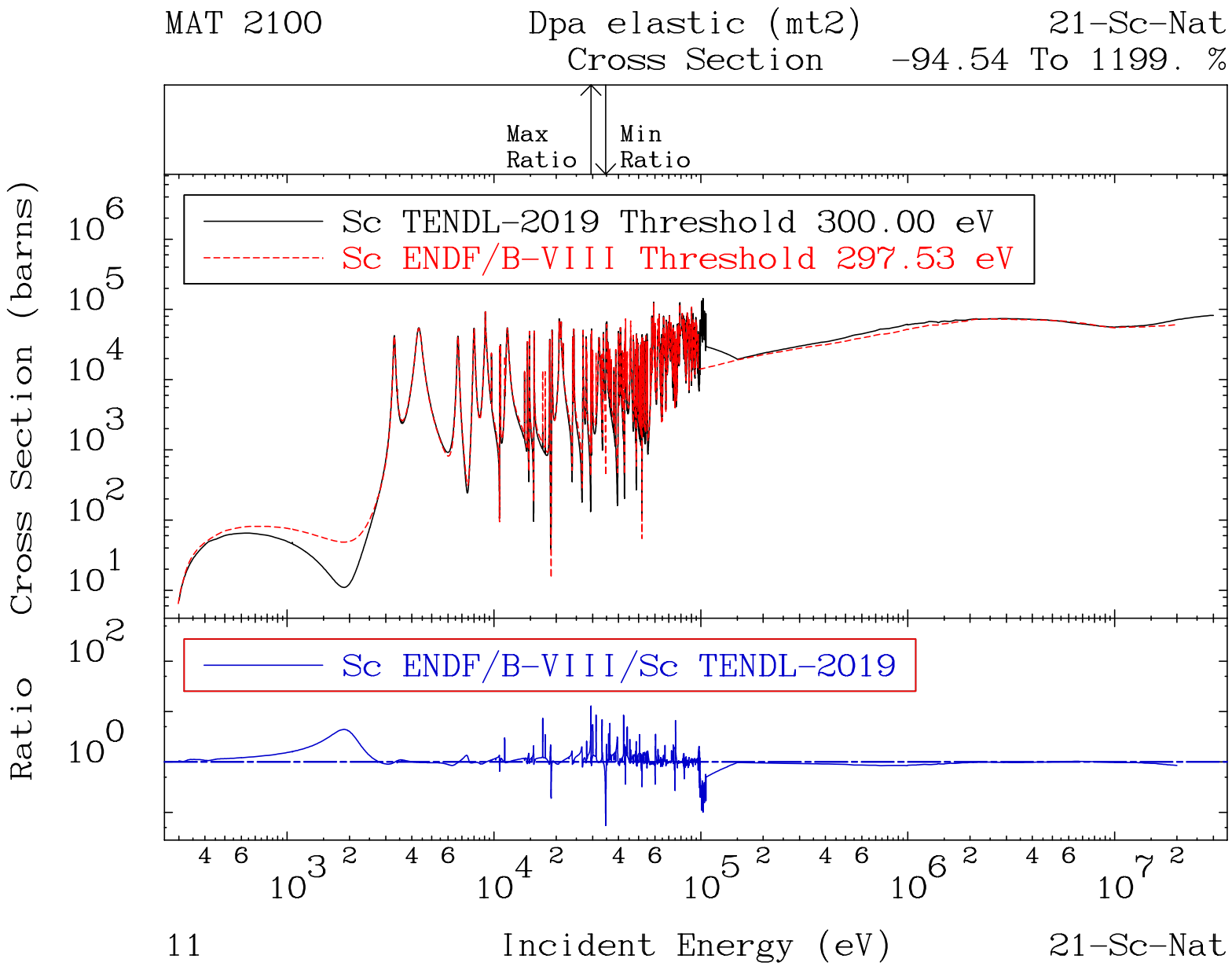

MAT 2100
He-4 Production
Cross Section
21-Sc-Nat
-18.32 To 9999. %
Max
Ratio
Min
Ratio
Sc TENDL-2019 Threshold 412.51 keV
Sc ENDF/B-VIII Threshold 406.08 keV
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
6
21-Sc-Nat

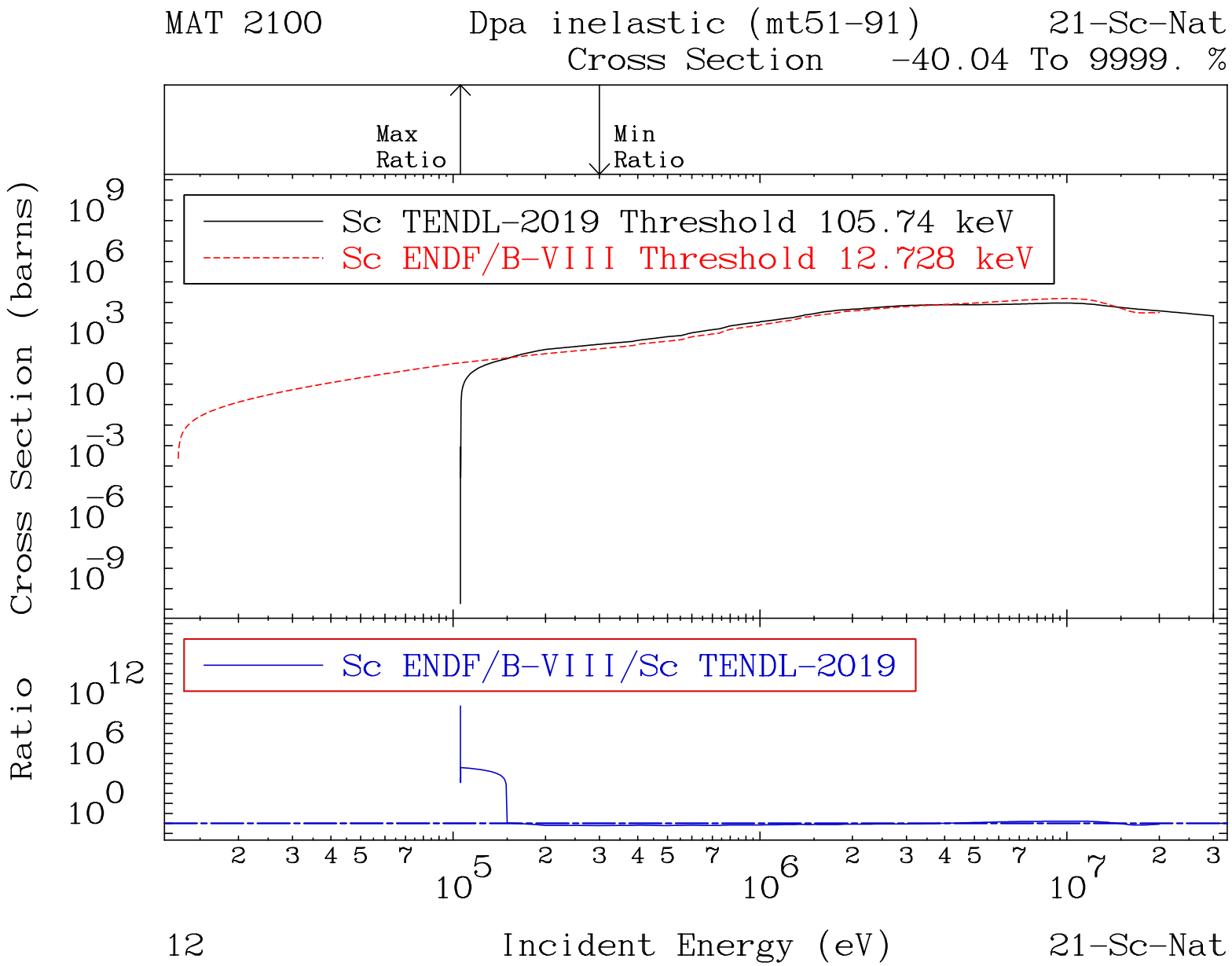

MAT 2100
Kerma total (eV-barns)
21-Sc-Nat
Cross Section -97.80 To 1856. %
Min Ratio
Max Ratio
Sc TENDL-2019
Sc ENDF/B-VIII
Sc ENDF/B-VIII/Sc TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
7
21-Sc-Nat

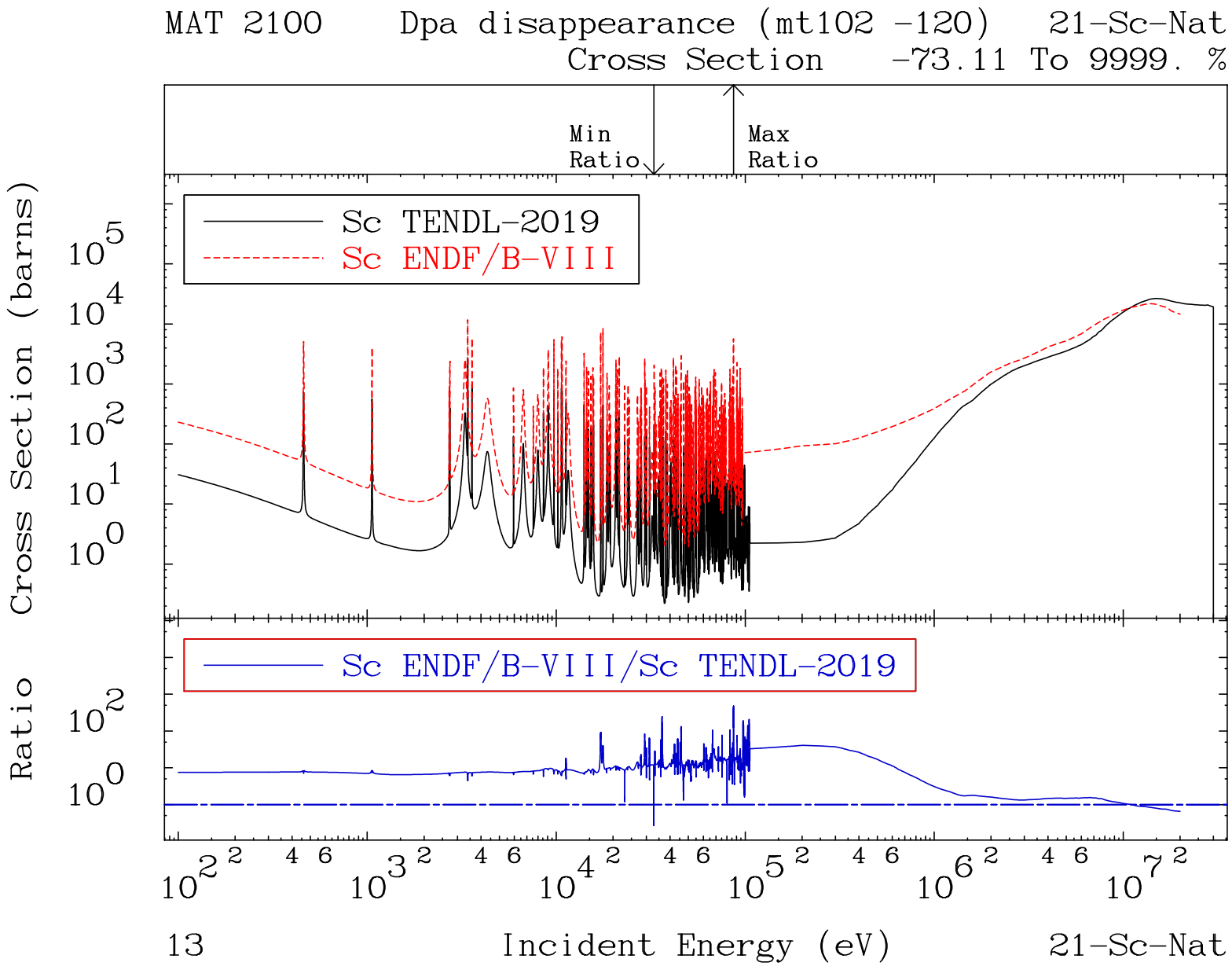

MAT 2100
Total photon (eV-barns)
Cross Section
21-Sc-Nat
-97.80 To 1856. %
Min Ratio
Max Ratio
Sc TENDL-2019
Sc ENDF/B-VIII
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio Cross Section (Mega-barns)
Incident Energy (eV)
8
21-Sc-Nat


MAT 2100 Total kinematic kerma (high limit) 21-Sc-Nat
Cross Section -99.99 To -4.367%
Min Ratio
Max Ratio
Sc TENDL-2019
Sc ENDF/B-VIII
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
9
21-Sc-Nat


MAT 2100
Dpa total (eV-barns)
21-Sc-Nat
Cross Section
-93.97 To 1261. %
Max Ratio
Min Ratio
Sc TENDL-2019
Sc ENDF/B-VIII
Sc ENDF/B-VIII/Sc TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
10
21-Sc-Nat


MAT 2100
Dpa elastic (mt2)
Cross Section
21-Sc-Nat
-94.54 To 1199. %
Max Ratio
Min Ratio
Sc TENDL-2019 Threshold 300.00 eV
Sc ENDF/B-VIII Threshold 297.53 eV
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
11
21-Sc-Nat


MAT 2100
Dpa inelastic (mt51-91)
21-Sc-Nat
Cross Section -40.04 To 9999. %
Max Ratio
Min Ratio
Sc TENDL-2019 Threshold 105.74 keV
Sc ENDF/B-VIII Threshold 12.728 keV
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
12
21-Sc-Nat


MAT 2100 Dpa disappearance (mt102 -120) 21-Sc-Nat
Cross Section -73.11 To 9999. %
Min Ratio
Max Ratio
Sc TENDL-2019
Sc ENDF/B-VIII
Cross Section (barns)
Sc ENDF/B-VIII/Sc TENDL-2019
Ratio
Incident Energy (eV)
13
21-Sc-Nat