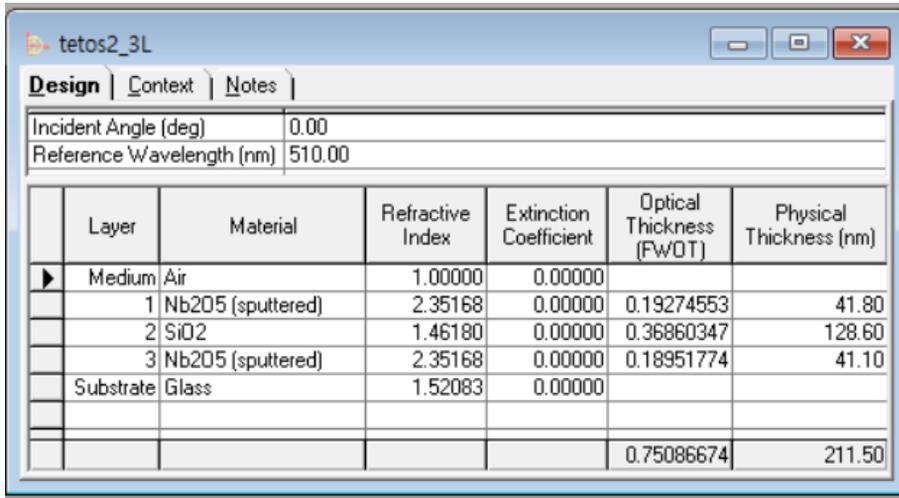


Color Target

설계 조건



The screenshot shows a window titled 'tetos2_3L' with a 'Design' tab selected. The design parameters are:

Incident Angle (deg)	0.00
Reference Wavelength (nm)	510.00

Below the parameters is a table with the following columns: Layer, Material, Refractive Index, Extinction Coefficient, Optical Thickness (FWOT), and Physical Thickness (nm).

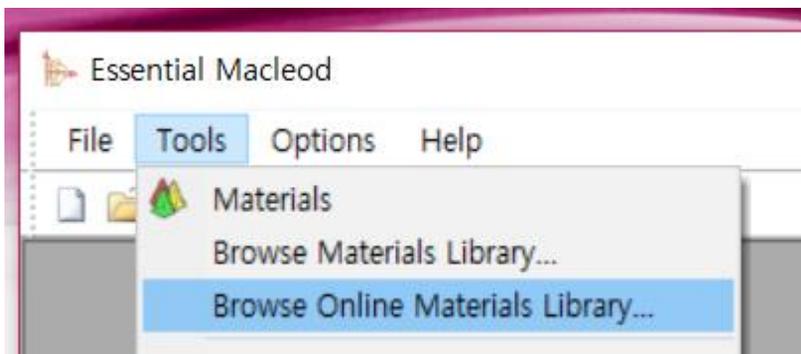
Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
Medium	Air	1.00000	0.00000		
1	Nb2O5 (sputtered)	2.35168	0.00000	0.19274553	41.80
2	SiO2	1.46180	0.00000	0.36860347	128.60
3	Nb2O5 (sputtered)	2.35168	0.00000	0.18951774	41.10
Substrate	Glass	1.52083	0.00000		
				0.75086674	211.50

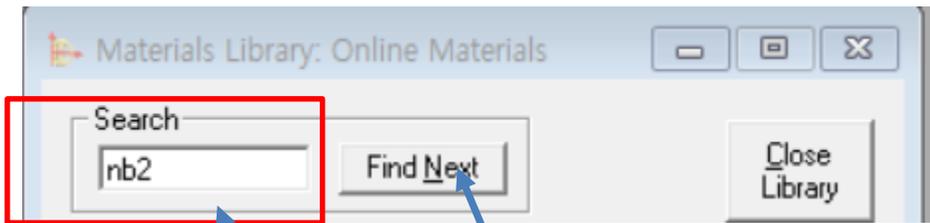
Color of the output

		Standard
Reflective performance		over 550nm wavelength
color coordinates	X	0.30 ~ 0.44
	Y	0.48 ~ 0.53

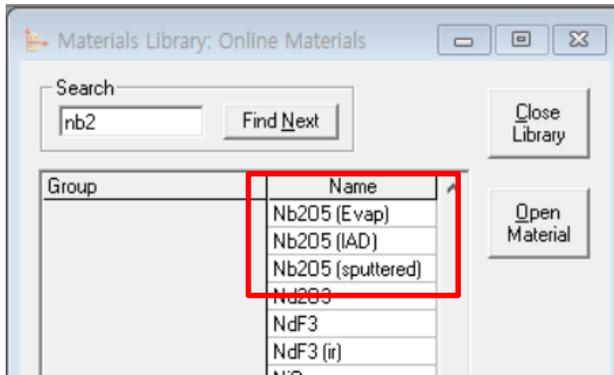
1. 물질 가져오기

프로그램 실행 > Tools

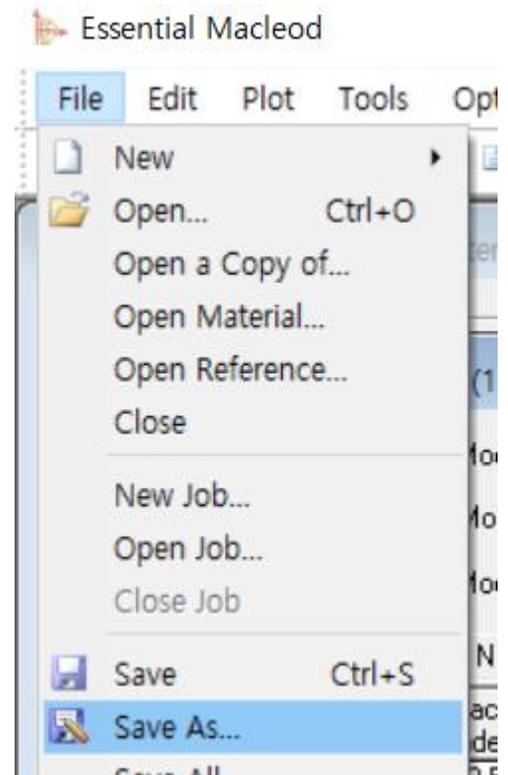
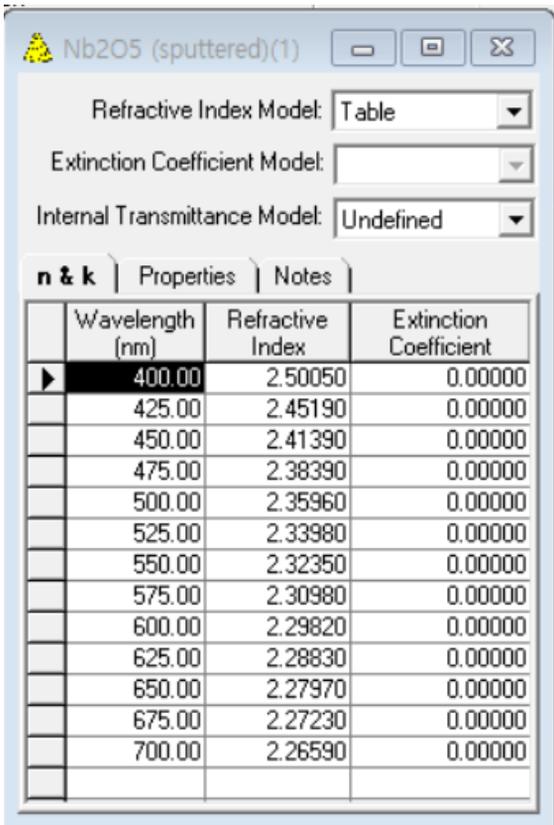




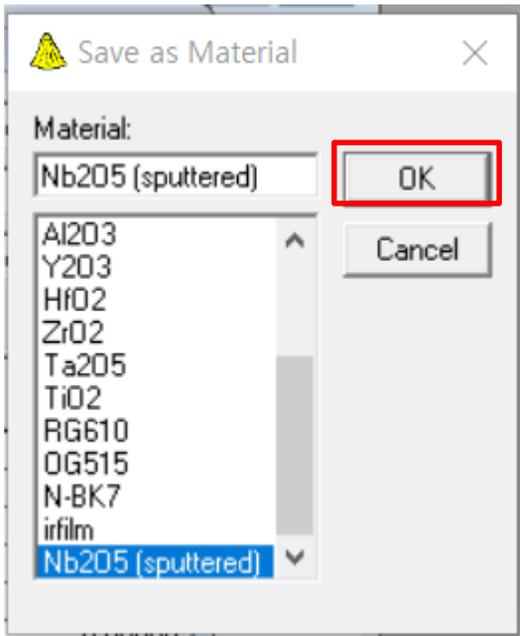
가져올 물질명 입력후 "Find Next " 클릭



해당 물질 선택, 마우스 더블클릭



해당 물질을 저장 (가져오기)

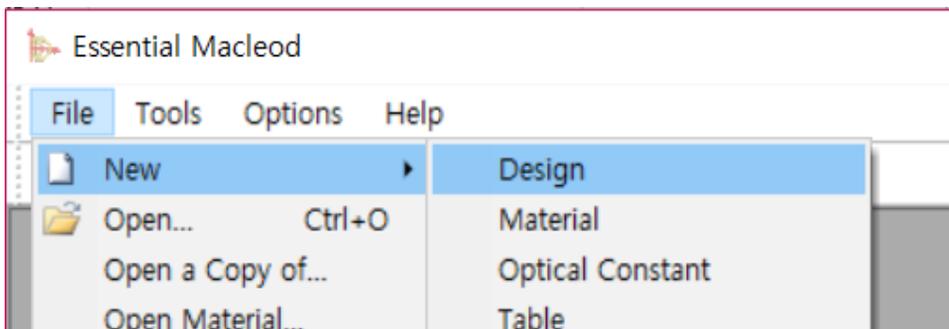


물질 폴더에 등록 창이 뜨면 물질 명을 확인 후 "OK "

열려 있는 모든 창을 닫는다.

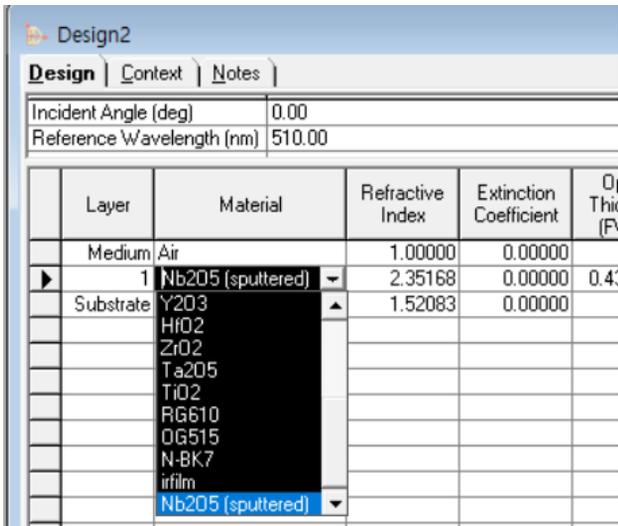
2. 설계 파일 작성

File > New > Design

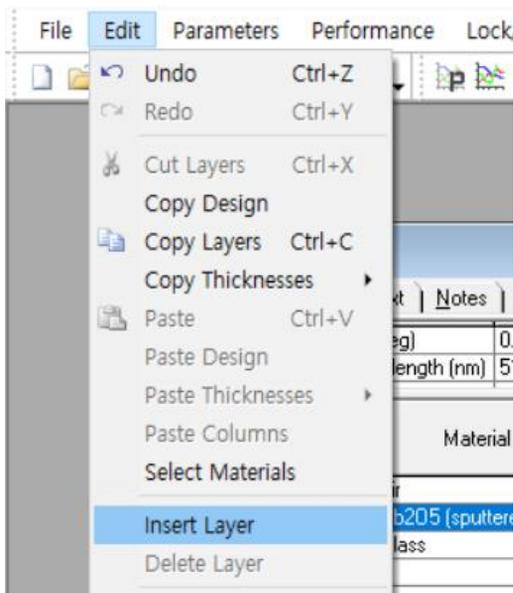
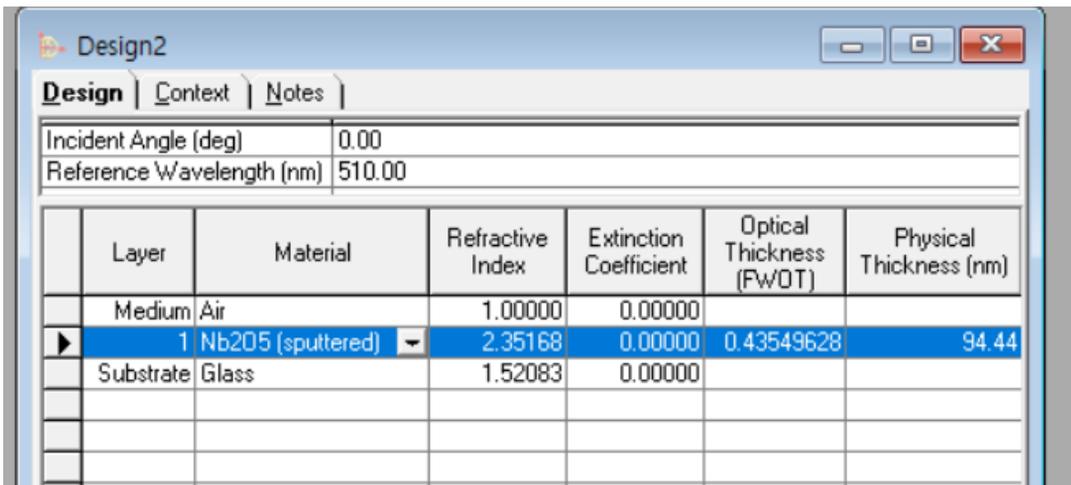


Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
Medium	Air	1.00000	0.00000		
1	Na3AlF6	1.35000	0.00000	0.25000000	94.44
Substrate	Glass	1.52083	0.00000		

해당 Layer에 마우스를 놓고 ▼ 물질을 찾아서 선택, 입력.



해당 물질 입력 완료



한 Layer를 선택 후,
Edit > Insert Layer

Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
Medium	Air	1.00000	0.00000		
1	Na3AlF6	1.35000	0.00000	0.00000000	0.00
2	Nb2O5 (sputtered)	2.35168	0.00000	0.43549628	94.44
Substrate	Glass	1.52083	0.00000		

새로운 Layer 하나가 생김

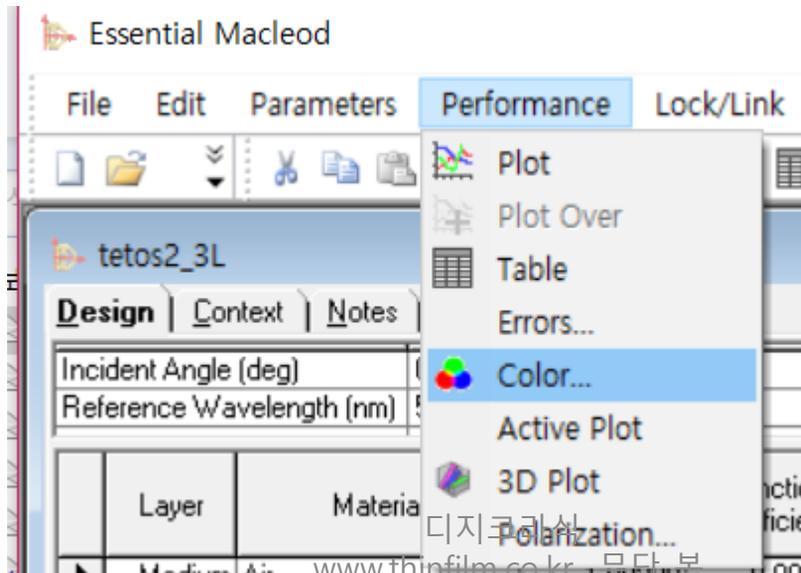
같은 방식으로 Layer를 추가하여 아래와 같이 설계 파일 작성

Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
Medium	Air	1.00000	0.00000		
1	Nb2O5 (sputtered)	2.35168	0.00000	0.19274553	41.80
2	SiO2	1.46180	0.00000	0.36860347	128.60
3	Nb2O5 (sputtered)	2.35168	0.00000	0.18951774	41.10
Substrate	Glass	1.52083	0.00000		
				0.75086674	211.50

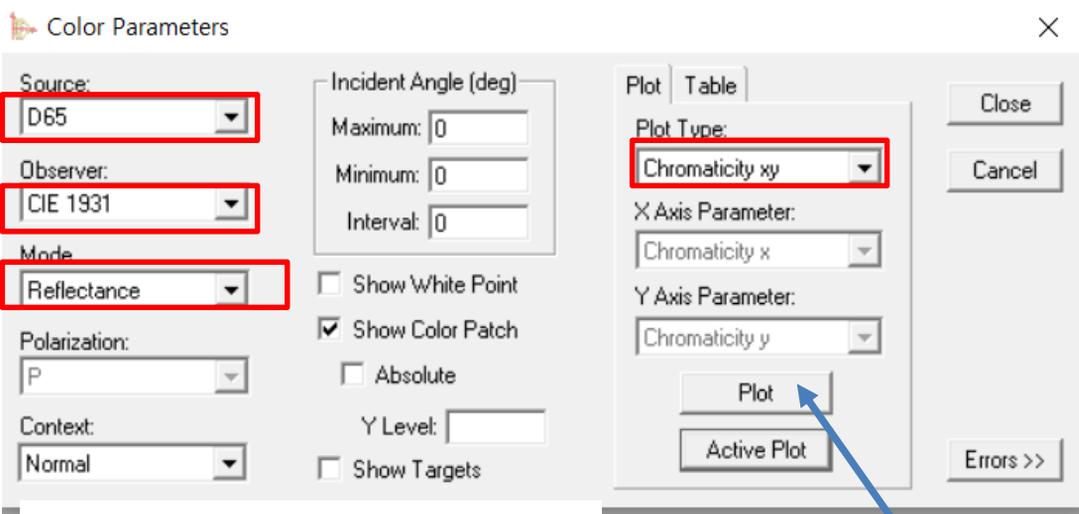
수치 입력

3. Color Plot

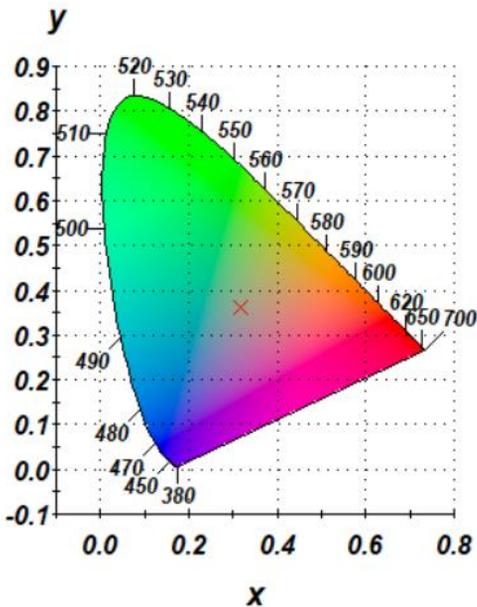
Performance > Color



Color 표시 설정



CIE 1931 Chromaticity Diagram



클릭

“Table” 선택 “Shift” 키를 누르고
마우스로 아래와 같이 선택

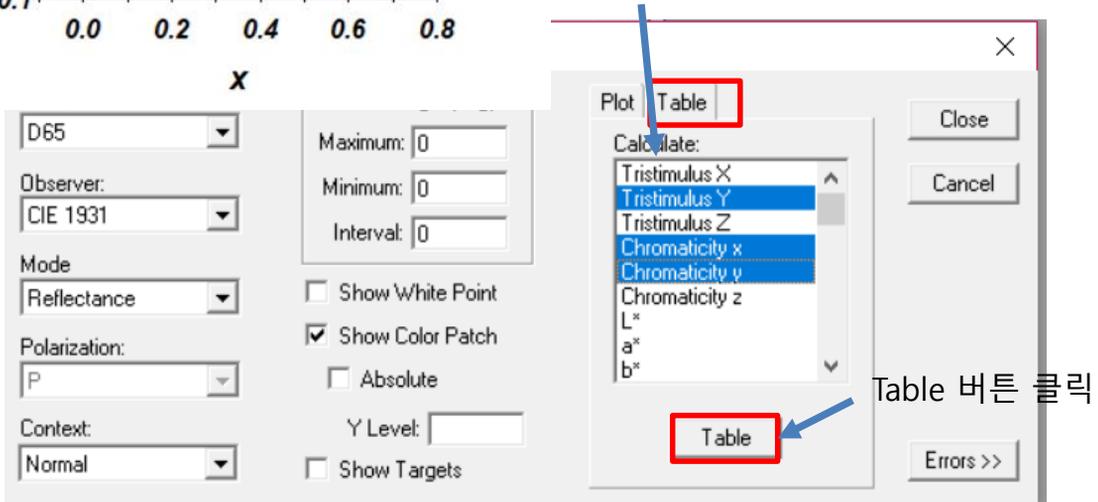
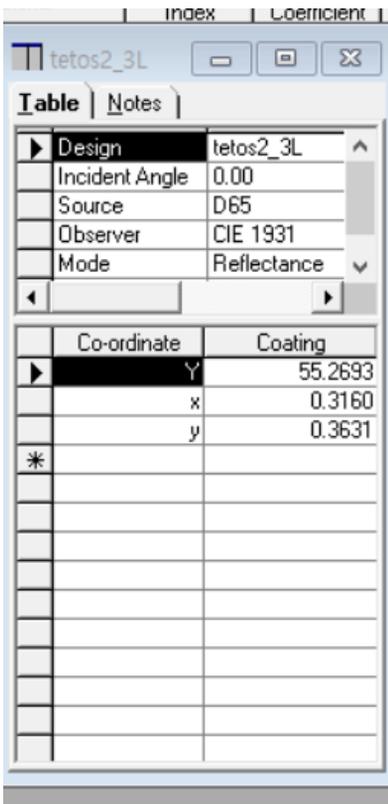


Table 버튼 클릭

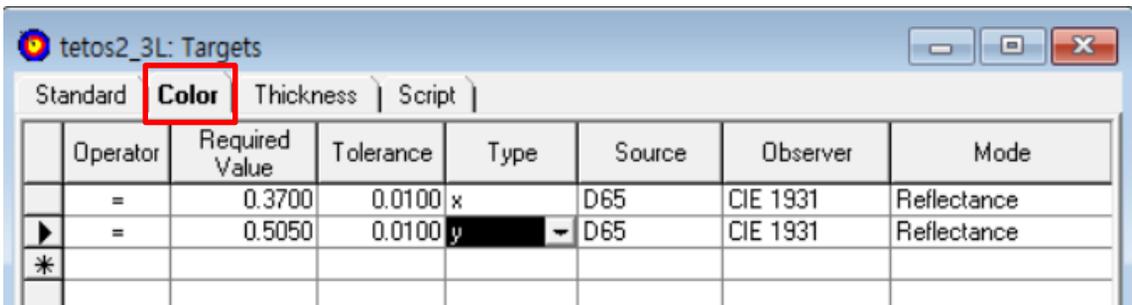


색상 좌표 수치가 보입니다.

Design file 창만 남기고 다른 창은 닫는다.

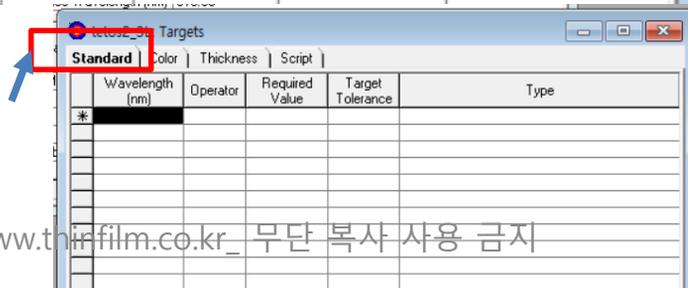
4. Target 수치 입력

Parameters -> Refinement -> Targets



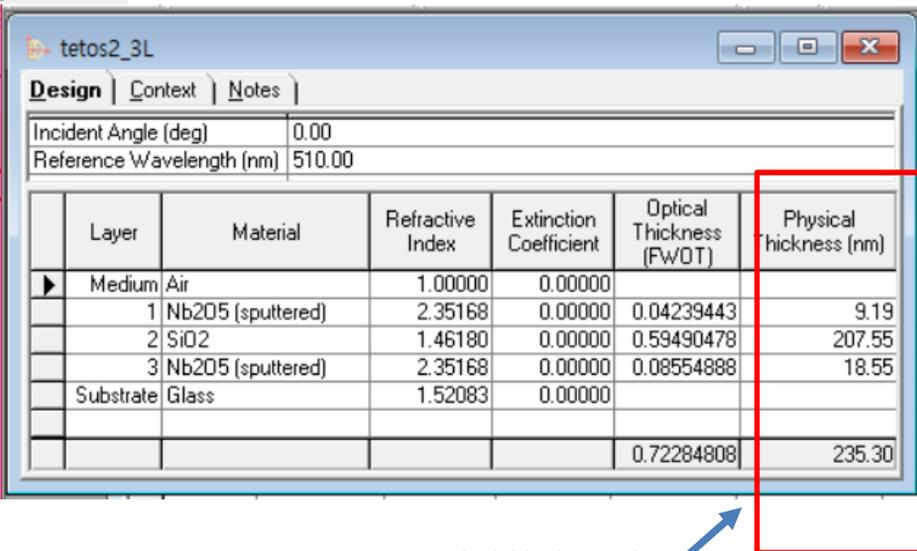
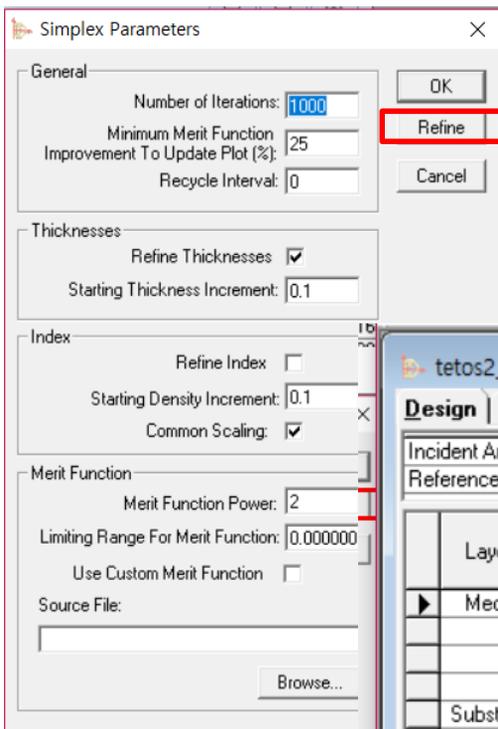
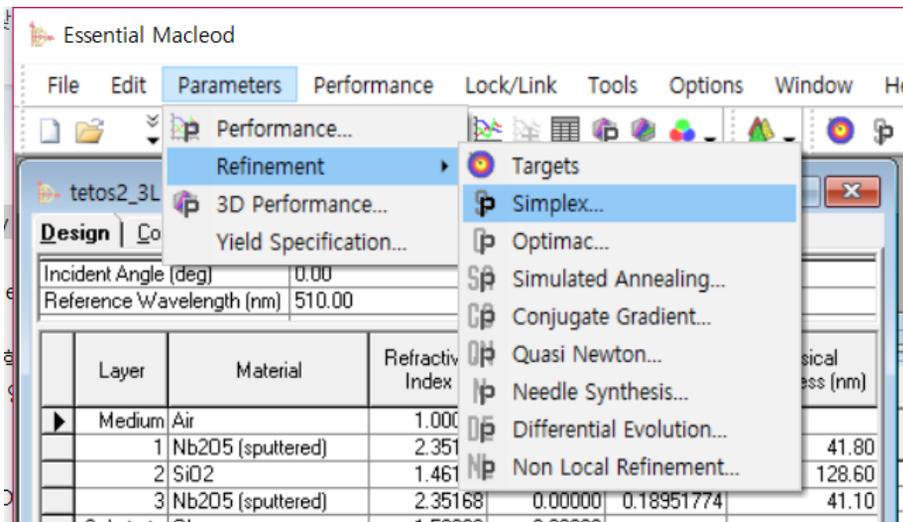
목표값 입력

Standard 값은
"Edit"로 모두 삭제



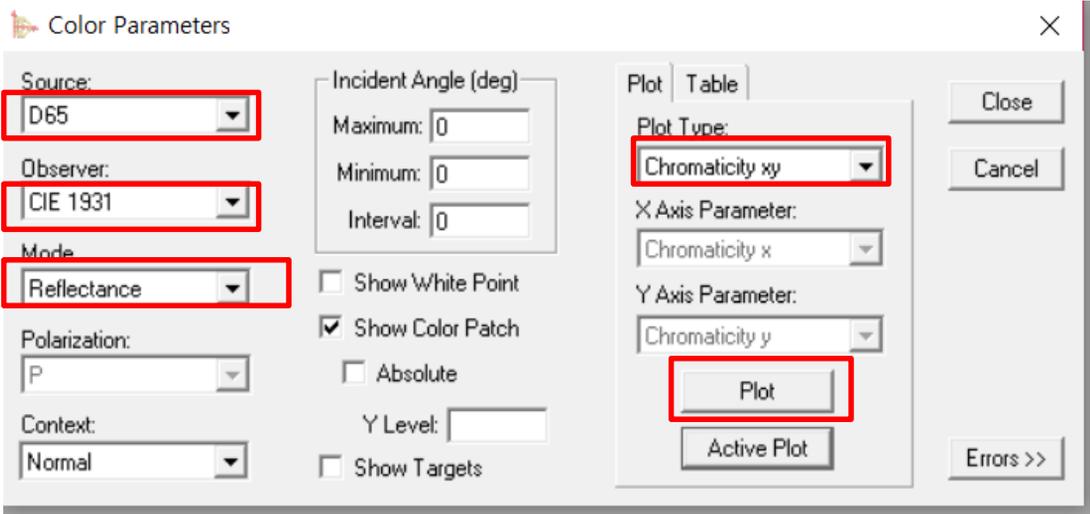
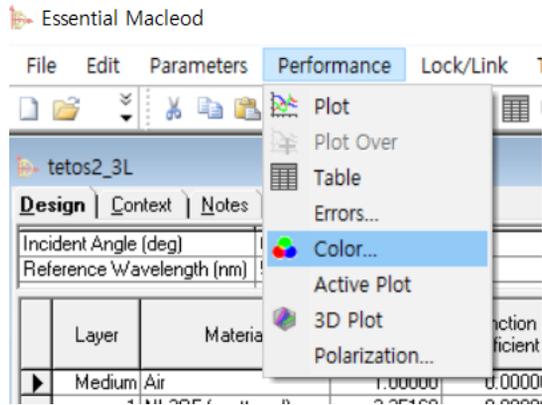
5. Refinement

Parameters > Refinement > Simplex



최적화된 두께

최적화된 설계 파일의 색상



CIE 1931 Chromaticity Diagram

