

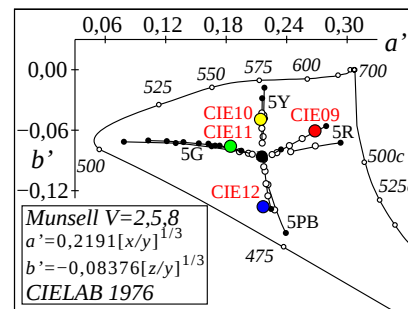
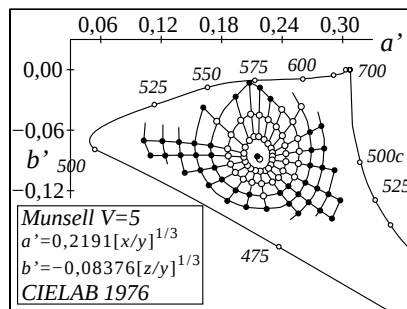
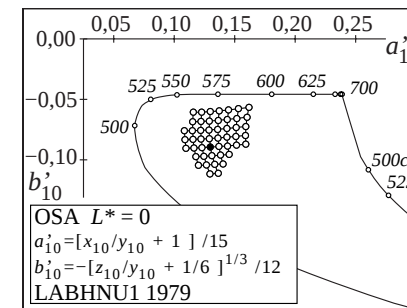
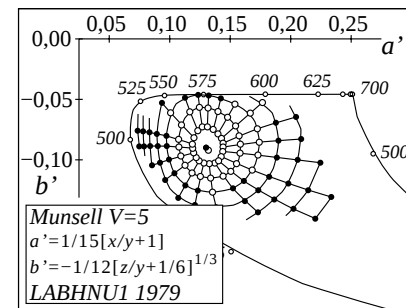
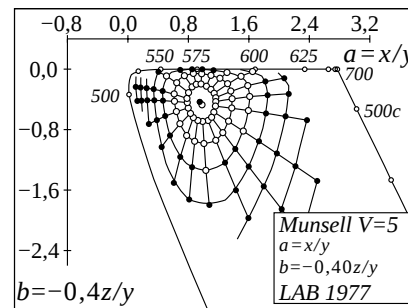
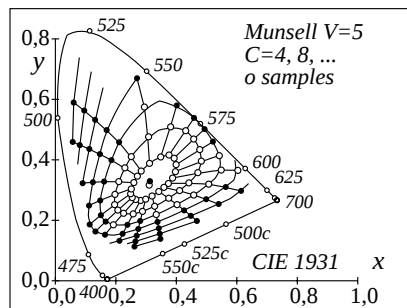
http://130.149.60.45/~farbmetrik/JE44/JE44L0NP.PDF /.PS; start output

N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D), page 1/1

See original or copy: <http://web.me.com/klaus.richter/JE44/JE44L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20100301-JE44/JE44L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta



Higher colormetric (color data: nonlinear relation to CIE 1931 data)		
non linear color terms	name and relationship with tristimulues or chromaticity values	notes
lightness	$L^* = 116 (Y / 100)^{1/3} - 16 \quad (Y > 0,8)$ Approximation: $L^* = 100 (Y / 100)^{1/2,4}$	CIELAB 1976
chroma	non linear transform of chromatic values A and B	
red-green	$a^* = 500 [(X / X_n)^{1/3} - (Y / Y_n)^{1/3}]$ $= 500 (a' - a'_n) Y^{1/3}$	CIELAB 1976 $n=D65$ (backgr.)
yellow-blue	$b^* = 200 [(Y / Y_n)^{1/3} - (Z / Z_n)^{1/3}]$ $= 500 (b' - b'_n) Y^{1/3}$	CIELAB 1976
radial	$C^*_{ab} = [a^{*2} + b^{*2}]^{1/2}$	
chromaticity	nonlinear transform of chromaticities $a=x/y$ and $b=z/y$	compare to log cone excitation
red-green	$a' = (1 / X_n)^{1/3} (x / y)^{1/3}$ $= 0,2191 (x / y)^{1/3}$ for D65	$\log[P / (P+D)]$ $= \log[L / (L+M)]$
yellow-blue	$b' = -0,4 (1 / Z_n)^{1/3} (z / y)^{1/3}$ $= -0,08376 (z / y)^{1/3}$ for D65	$\log[T / (P+D)]$ $= \log[S / (L+M)]$
radial	$c'_{ab} = [(a' - a'_n)^2 + (b' - b'_n)^2]^{1/2}$	

color valence metric (color data: linear relation to CIE 1931 data)		
linear color terms	name and relationship to CIE tristimulues or chromaticity values	notes:
luminous value	$Y = y (X + Y + Z)$	
chromatic value	for linear chromatic value diagram (A, B)	
red-green	$A = [X / Y - X_n / Y_n] Y = [a - a_n] Y$ $= [x / y - x_n / y_n] Y$	$n=D65$ (backgr.)
yellow-blue	$B = -0,4 [Z / Y - Z_n / Y_n] Y = [b - b_n] Y$ $= -0,4 [z / y - z_n / y_n] Y$	
radial	$C_{ab} = [A^2 + B^2]^{1/2}$	
chromaticity	for (linear) chromaticity diagram (a, b)	compare to linear cone excitation
red-green	$a = X / Y = x / y$	$P/(P+D)=L/(L+M)$
yellow-blue	$b = -0,4 [Z / Y] = -0,4 [z / y]$	$P/(P+D)=L/(L+M)$
radial	$c_{ab} = [(a - a_n)^2 + (b - b_n)^2]^{1/2}$	$T/(P+D)=S/(L+M)$

TUB-test chart no. JE44; Colour and chromaticity diagrams
Munsell/OSA/CIE colours; colorimetric equations

input: *rgb setrgbcolor*
output: no change compared to input