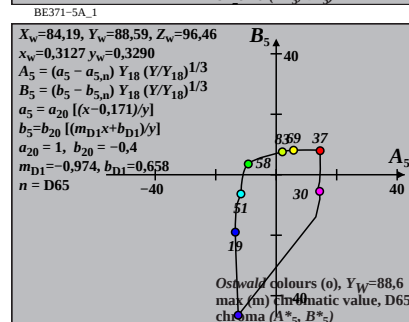
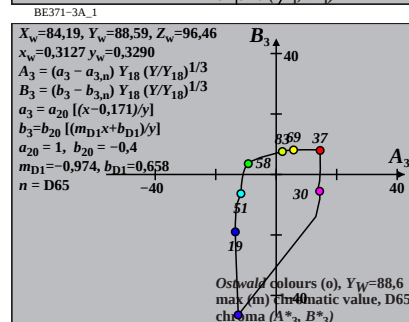
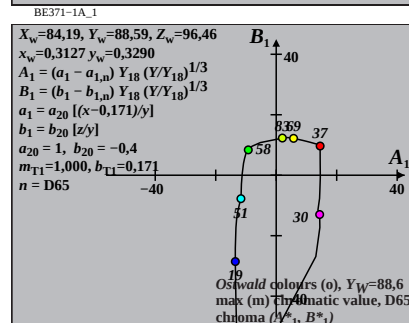
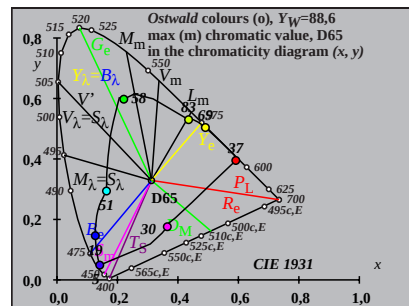


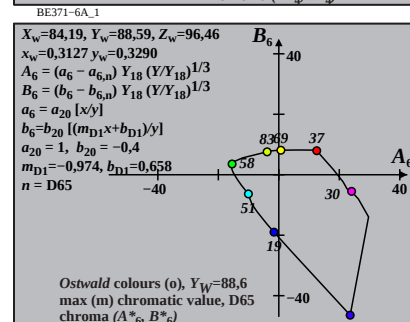
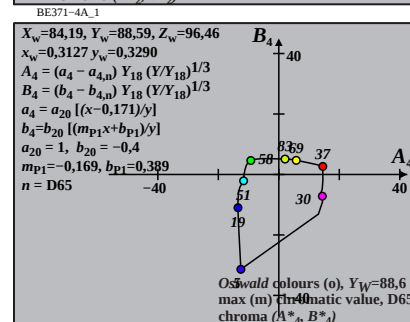
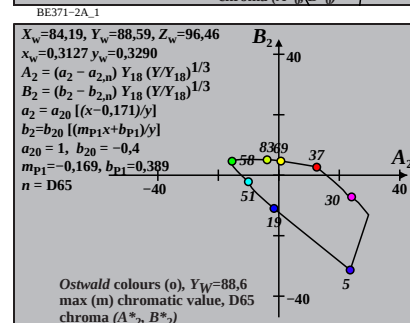
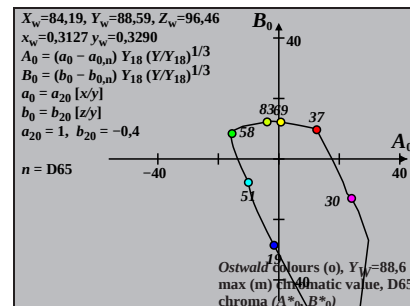
Ostwald optimal colours (o) of maximum (m) C_{AB} for D65, $Y_w=88,6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
0	405	32	561	77.02	-64.87	-31.25	72.01	0.1805	-0.1029	205.7	16 483 37 589 Cm
6	435	32	562	77.34	-78.65	-18.49	80.79	0.1732	-0.096	193.2	17 486 42 610
10	450	32	563	77.66	-104.74	10.98	105.32	0.1595	-0.0803	174.0	19 496 -1 496c
12	460	33	565	78.13	-115.96	31.94	120.28	0.1538	-0.0692	164.5	21 505 -1 505c
12	465	33	567	78.83	-114.06	33.13	118.77	0.1552	-0.0687	163.8	21 506 -1 506c
14	470	33	569	79.37	-118.58	55.25	130.82	0.1532	-0.0572	155.0	24 520 -1 520c
15	475	34	573	80.65	-114.03	67.6	132.56	0.1564	-0.0512	149.3	25 528 -1 528c Gm
16	480	36	580	82.9	-102.97	80.87	130.93	0.1633	-0.0452	141.8	27 537 -1 537c
17	485	39	595	86.88	-77.35	96.11	123.37	0.1778	-0.0394	128.8	29 548 -1 548c
18	490	-1	490c	93.06	-22.24	114.34	116.48	0.2052	-0.0337	101.0	33 565 11 459 max
19	495	-1	495c	92.47	-19.81	120.45	122.06	0.2062	-0.0306	99.3	33 566 12 462
20	500	-1	500c	91.73	-16.65	125.95	127.04	0.2076	-0.0277	97.5	33 567 12 464
22	510	-1	510c	89.65	-7.92	134.61	134.84	0.2116	-0.0224	93.3	33 569 13 469
23	520	-1	519c	88.27	-2.43	137.31	137.33	0.2142	-0.0202	91.0	34 570 14 471 Ym
25	530	-1	529c	84.79	10.36	138.25	138.64	0.2205	-0.0165	85.7	34 573 15 475
27	540	-1	539c	80.46	24.53	135.02	137.23	0.2281	-0.0134	79.7	35 577 15 478
28	545	-1	544c	78.04	31.74	131.99	135.75	0.2322	-0.0121	76.4	35 579 15 479
29	550	-1	549c	75.43	38.97	128.25	134.04	0.2367	-0.0111	73.0	36 582 16 480
30	555	-1	554c	72.66	46.06	123.97	132.25	0.2413	-0.0103	69.6	36 584 16 481
32	560	-1	560c	66.77	59.19	114.35	128.76	0.2511	-0.0093	62.6	37 589 16 483
32	561	0	405	75.1	50.51	58.31	77.15	0.2431	-0.0541	49.1	37 589 16 483 Rm
32	562	6	435	74.77	58.71	25.94	64.18	0.2477	-0.0718	23.8	42 610 17 486
32	563	10	450	74.42	71.74	-10.3	72.47	0.255	-0.0918	351.8	-1 496c 19 496
33	565	12	460	73.91	77.65	-24.5	81.42	0.2585	-0.0997	342.4	-1 505c 21 505
33	567	12	465	73.14	79.04	-25.83	83.15	0.2597	-0.1006	341.9	-1 506c 21 506
33	569	14	470	72.52	82.59	-35.89	90.05	0.262	-0.1064	336.5	-1 520c 24 520
34	573	15	475	70.98	85.03	-41.59	94.66	0.2642	-0.11	333.9	-1 528c 25 528 Mm
36	580	16	480	68.04	87.88	-48.91	100.57	0.2676	-0.1152	330.9	-1 537c 27 537
39	595	17	485	61.86	87.86	-61.19	107.07	0.2718	-0.1254	325.1	-1 548c 29 548
-1	490c	18	490	48.14	51.23	-86.03	100.13	0.2553	-0.1532	300.7	11 459 33 565 min
-1	495c	19	495	49.78	44.33	-84.1	95.07	0.2491	-0.15	297.7	12 462 33 566
-1	500c	20	500	51.73	36.01	-81.43	89.04	0.242	-0.1462	293.8	12 464 33 567
-1	510c	22	510	56.54	15.71	-74.03	75.68	0.2262	-0.1371	281.9	13 469 33 569
-1	519c	23	520	59.32	4.57	-69.51	69.66	0.2184	-0.1323	273.7	14 471 34 570 Bm
-1	529c	25	530	65.28	-17.14	-59.54	61.96	0.2048	-0.1227	253.9	15 475 34 573
-1	539c	27	540	71.22	-34.96	-49.47	60.58	0.1953	-0.1145	234.7	15 478 35 577
-1	544c	28	545	74.02	-41.75	-44.69	61.16	0.1922	-0.1109	226.9	15 479 35 579
-1	549c	29	550	76.7	-47.12	-40.09	61.87	0.19	-0.1077	220.3	16 480 36 582
-1	554c	30	555	79.24	-51.0	-35.73	62.27	0.1886	-0.1049	215.0	16 481 36 584
-1	560c	32	560	83.79	-54.46	-27.9	61.19	0.1881	-0.1001	207.1	16 483 37 589
380	770	95.41	0.0	0.0	0.0	0.2154	-0.0861	0.0			

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)
Ostwald optimal colours for illuminant P60; diagram for illuminant P60, $Y_w=88,6$



BE37-1A_1
BE37-3A_1
BE37-5A_1
BE37-7A_1



BE37-2A_1
BE37-4A_1
BE37-6A_1
BE37-8A_1

input: w/rgb/cmyk -> rgb

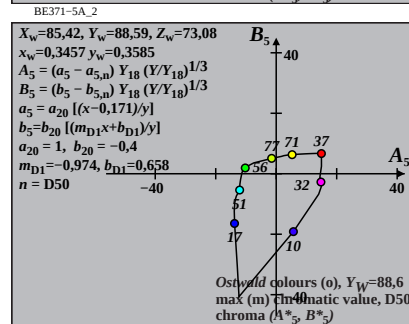
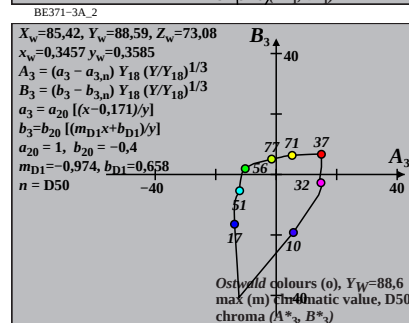
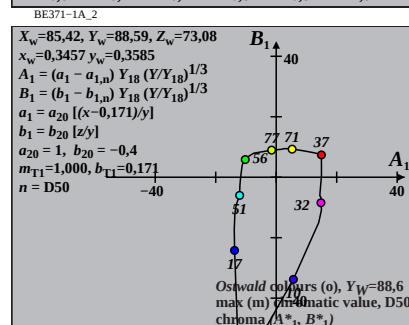
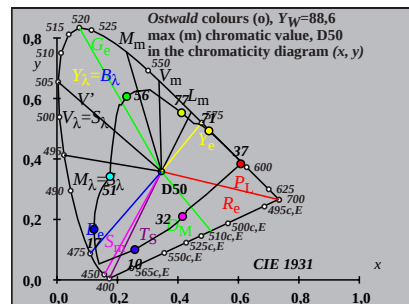
Ostwald optimal colours (o) of maximum (m) C_{AB} for D50, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	32	564	76.81	-75.99	-31.37	82.21	0.1753	-0.0939	202.4	17 486 38 592 Cm
7	435	33	565	77.01	-89.31	-15.67	90.68	0.1682	-0.0862	189.9	18 490 46 634
10	450	33	566	77.27	-104.05	6.86	104.28	0.1604	-0.0752	176.2	19 497 -1 497c
12	460	33	567	77.6	-112.34	26.94	115.53	0.1561	-0.0654	166.5	21 506 -1 506c
13	465	33	568	77.94	-114.54	38.01	120.68	0.1552	-0.0601	161.6	22 511 -1 511c
14	470	34	570	78.51	-114.5	49.34	124.68	0.1555	-0.0547	156.6	23 519 -1 519c
15	475	34	573	79.46	-111.21	61.04	126.86	0.1579	-0.0494	151.2	25 527 -1 527c Gm
15	480	35	578	81.45	-103.49	64.45	121.92	0.1631	-0.0484	148.0	26 531 -1 531c
17	485	37	587	83.97	-87.25	86.61	122.94	0.1726	-0.039	135.2	28 544 -1 544c
18	490	44	620	90.77	-37.83	105.97	112.52	0.1986	-0.0333	109.6	32 561 -1 561c max
19	495	-1	495c	93.0	-12.81	117.07	117.77	0.2105	-0.0295	96.2	33 568 12 463
20	500	-1	500c	92.35	-10.04	122.92	123.33	0.2118	-0.0268	94.6	33 569 13 466
22	510	-1	510c	90.49	-2.25	132.38	132.4	0.2153	-0.0218	90.9	34 571 14 471
23	520	-1	519c	89.24	2.74	135.53	135.56	0.2177	-0.0198	88.8	34 572 14 473 Ym
25	530	-1	529c	86.03	14.63	140.55	141.31	0.2236	-0.0162	84.0	35 575 15 477
27	540	-1	539c	81.97	28.02	137.63	140.46	0.2308	-0.0132	78.4	35 579 16 480
28	545	-1	544c	79.68	34.91	134.8	139.25	0.2347	-0.012	75.4	36 581 16 481
29	550	-1	549c	77.21	41.87	131.28	137.79	0.239	-0.011	72.3	36 583 16 483
30	555	-1	554c	74.57	48.74	127.21	136.23	0.2434	-0.0102	69.0	37 585 16 484
32	560	-1	560c	68.91	61.58	118.0	133.1	0.2528	-0.0092	62.4	38 590 17 486
32	564	1	405	75.32	56.14	57.79	80.57	0.2473	-0.0497	45.8	38 592 17 486 Rm
33	565	7	435	75.11	63.17	20.55	66.43	0.2512	-0.0682	18.0	46 634 18 490
33	566	10	450	74.83	70.36	-6.64	70.68	0.2553	-0.0818	354.6	-1 497c 19 497
33	567	12	460	74.49	74.64	-21.26	77.61	0.2578	-0.0892	344.1	-1 506c 21 506
33	568	13	465	74.12	76.52	-27.29	81.24	0.2591	-0.0923	340.3	-1 511c 22 511
34	570	14	470	73.5	78.22	-32.65	84.77	0.2603	-0.0951	337.3	-1 519c 23 519
34	573	15	475	72.42	79.85	-37.84	88.36	0.2618	-0.098	334.6	-1 527c 25 527 Mm
35	578	15	480	69.98	82.93	-42.04	92.98	0.2649	-0.1008	333.1	-1 531c 26 531
37	587	17	485	66.52	82.99	-52.32	98.11	0.2669	-0.1074	327.7	-1 544c 28 544
44	620	18	490	54.06	65.57	-75.16	99.75	0.2634	-0.1274	311.1	-1 561c 32 561 min
-1	495c	19	495	48.31	31.99	-86.12	91.87	0.2414	-0.1395	290.3	12 463 33 568
-1	500c	20	500	50.12	24.26	-83.81	87.25	0.2348	-0.1363	286.1	13 466 33 569
-1	510c	22	510	54.69	5.0	-76.99	77.16	0.22	-0.1281	273.7	14 471 34 571
-1	519c	23	520	57.39	-5.78	-72.65	72.88	0.2124	-0.1236	265.4	14 473 34 572 Bm
-1	529c	25	530	63.31	-27.13	-62.84	68.45	0.1992	-0.1146	246.6	15 477 35 575
-1	539c	27	540	69.3	-44.69	-52.73	69.12	0.1901	-0.1067	229.7	16 480 35 579
-1	544c	28	545	72.15	-51.34	-47.87	70.2	0.1872	-0.1033	222.9	16 481 36 581
-1	549c	29	550	74.91	-56.53	-43.16	71.12	0.1852	-0.1001	217.3	16 483 36 583
-1	554c	30	555	77.52	-60.2	-38.67	71.55	0.1841	-0.0974	212.7	16 484 37 585
-1	560c	32	560	82.26	-63.09	-30.54	70.09	0.1842	-0.0927	205.8	17 486 38 590
380	770	95.41	0.0	0.0	0.0	0.2164	-0.0785	0.0			

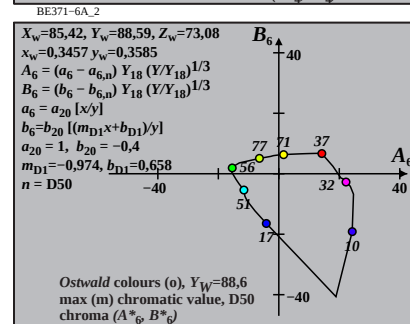
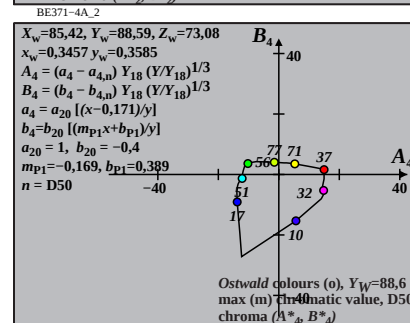
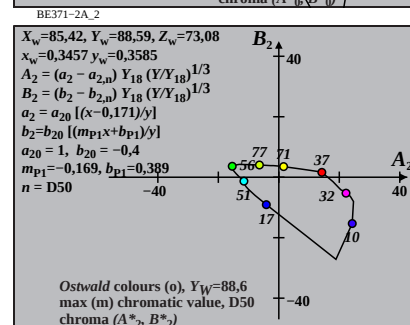
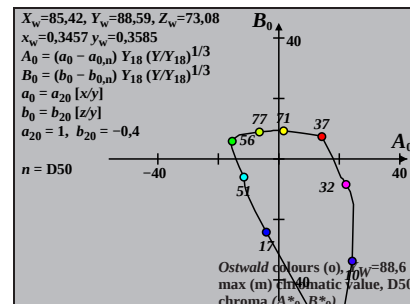
TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)

Ostwald optimal colours for illuminant P55; diagram for illuminant P55, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



BE371-7A_2



BE371-8A_2

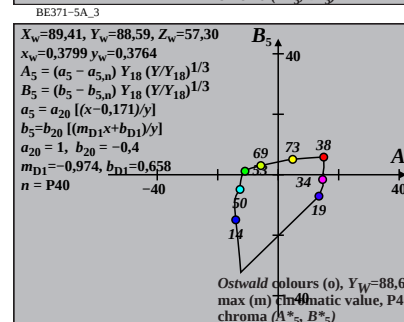
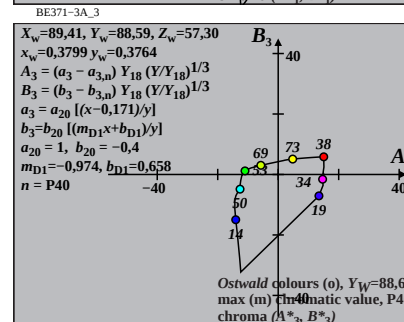
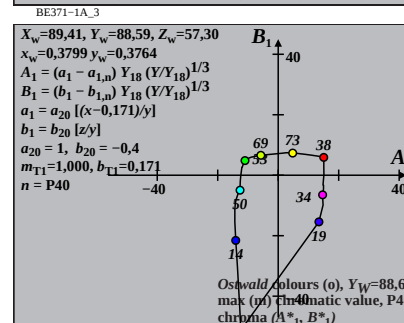
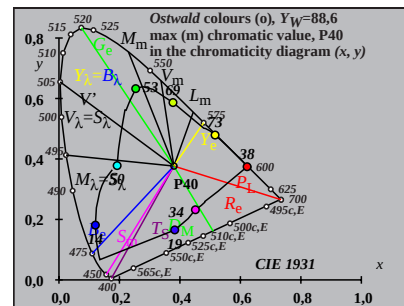
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application for measurement of offset print output

TUB material: code=rha4ta

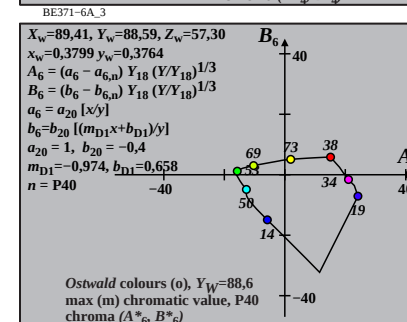
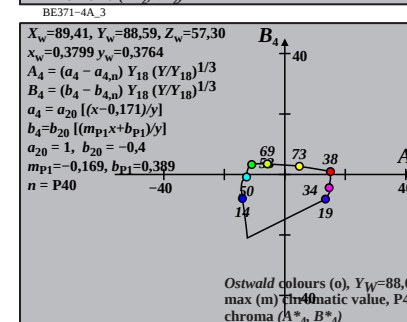
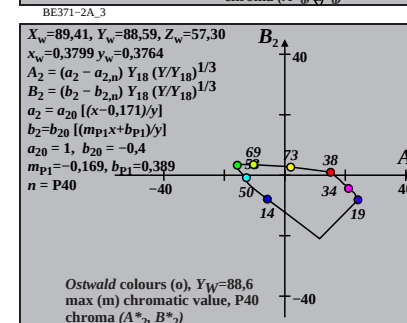
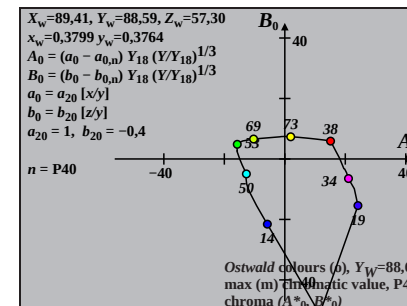
Ostwald optimal colours (o) of maximum (m) C_{AB} for P40, $Y_w=88,6$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
0	405	33	568	76.15	-81.16	-32.77	87.53	0.1748	-0.0873	201.9	17 488 38 594 Cm
7	435	33	568	76.3	-92.76	-15.35	94.02	0.1685	-0.0794	189.3	18 493 54 674
10	450	33	569	76.52	-103.39	5.92	103.56	0.1627	-0.0697	176.7	19 499 -1 499c
12	460	34	570	76.8	-109.0	24.57	111.74	0.1598	-0.0613	167.2	21 507 -1 507c
13	465	34	571	77.08	-110.23	34.97	115.65	0.1593	-0.0566	162.3	22 512 -1 512c
14	470	34	572	77.53	-109.88	45.65	118.98	0.1598	-0.0519	157.4	23 519 -1 519c
14	475	34	574	78.55	-106.82	47.39	116.86	0.1621	-0.0513	156.0	24 522 -1 522c Gm
15	480	35	578	79.92	-101.53	59.31	117.59	0.1657	-0.0464	149.7	26 531 -1 531c
17	485	37	585	81.98	-89.65	80.19	120.28	0.1731	-0.038	138.1	28 543 -1 543c
17	490	40	600	87.01	-63.2	88.78	108.98	0.1884	-0.0362	125.4	30 554 -1 554c max
19	495	-1	495c	93.47	-8.67	114.91	115.24	0.2157	-0.0283	94.3	34 571 12 464
20	500	-1	500c	92.92	-6.3	120.95	121.11	0.2168	-0.0257	92.9	34 571 13 467
21	510	-1	509c	92.21	-3.27	126.42	126.46	0.2182	-0.0233	91.4	34 572 13 469
24	520	-1	520c	88.87	9.99	137.27	137.63	0.2246	-0.0173	85.8	35 575 15 476 Ym
26	530	-1	530c	85.65	21.4	142.49	144.09	0.2305	-0.0142	81.4	35 578 16 480
27	540	-1	539c	83.75	27.56	140.77	143.44	0.2338	-0.0129	78.9	36 580 16 481
29	545	-1	545c	79.44	40.32	135.08	140.98	0.2413	-0.0108	73.3	36 584 16 484
29	550	-1	549c	79.44	40.32	135.08	140.98	0.2413	-0.0108	73.3	36 584 16 484
31	555	-1	555c	74.45	53.03	127.26	137.87	0.2496	-0.0095	67.3	37 588 17 486
32	560	-1	560c	71.71	59.09	122.75	136.24	0.2541	-0.0091	64.2	38 591 17 487
33	568	0	405	75.99	57.26	59.94	82.9	0.2515	-0.045	46.3	38 594 17 488 Rm
33	568	7	435	75.84	62.98	19.31	65.88	0.2547	-0.0636	17.0	54 674 18 493
33	569	10	450	75.61	68.07	-5.61	68.3	0.2576	-0.075	35.2	-1 499c 19 499
34	570	12	460	75.33	71.06	-19.23	73.62	0.2594	-0.0812	34.8	-1 507c 21 507
34	571	13	465	75.04	72.31	-24.98	76.51	0.2602	-0.0839	34.0	-1 512c 22 512
34	572	14	470	74.56	73.47	-30.05	79.38	0.2611	-0.0863	33.7	-1 519c 23 519
34	574	14	475	73.45	75.18	-31.96	81.7	0.2626	-0.0874	33.6	-1 522c 24 522 Mm
35	578	15	480	71.87	77.0	-38.02	85.87	0.2644	-0.0906	33.3	-1 531c 26 531
37	585	17	485	69.29	77.5	-46.95	90.61	0.2661	-0.0955	32.8	-1 543c 28 543
40	600	17	490	61.64	77.04	-60.11	97.72	0.2703	-0.1049	32.0	-1 554c 30 554 min
-1	495c	19	495	46.91	23.65	-88.12	91.24	0.2389	-0.1313	285.0	12 464 34 571
-1	500c	20	500	48.54	16.7	-86.21	87.81	0.2329	-0.1285	280.9	13 467 34 571
-1	509c	21	510	50.5	8.36	-83.52	83.94	0.2261	-0.1252	275.7	13 469 34 572
-1	520c	24	520	58.14	-21.9	-71.49	74.77	0.2047	-0.1129	252.9	15 476 35 575 Bm
-1	530c	26	530	63.94	-41.02	-61.83	74.2	0.1936	-0.1049	236.4	16 480 35 578
-1	539c	27	540	66.84	-49.01	-56.93	75.12	0.1896	-0.1013	229.2	16 481 36 580
-1	545c	29	545	72.44	-60.94	-47.39	77.2	0.1846	-0.0949	217.8	16 484 36 584
-1	549c	29	550	72.44	-60.94	-47.39	77.2	0.1846	-0.0949	217.8	16 484 36 584
-1	555c	31	555	77.64	-67.03	-38.48	77.29	0.1832	-0.0897	209.8	17 486 37 588
-1	560c	32	560	80.05	-67.9	-34.32	76.08	0.1837	-0.0874	206.8	17 487 38 591
380	770	95.41	0.0	0.0	0.0	0.2197	-0.0724	0.0			

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)
Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_w=88,6$



BE37-1A_3
BE37-1A_3
BE37-3A_3
BE37-5A_3
BE37-7A_3



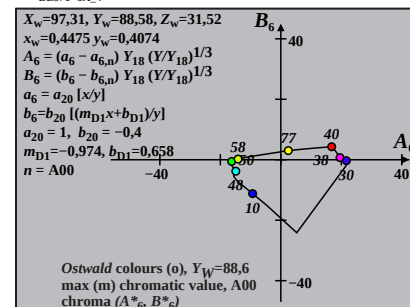
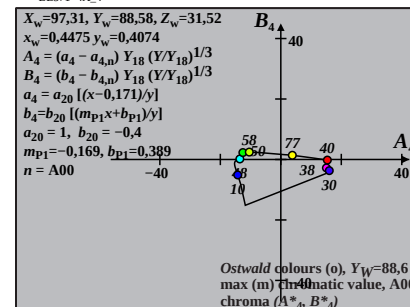
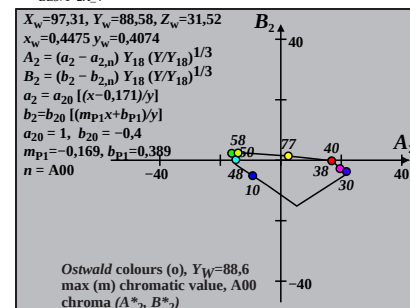
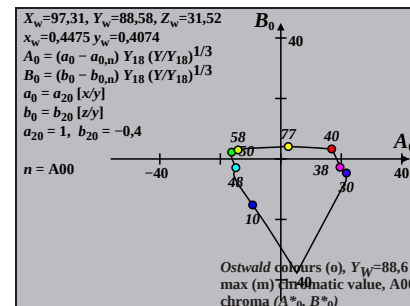
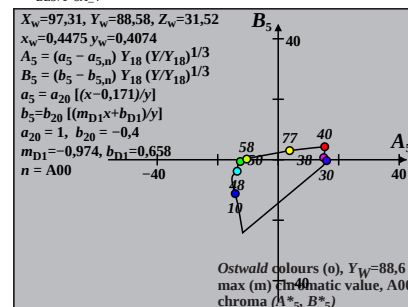
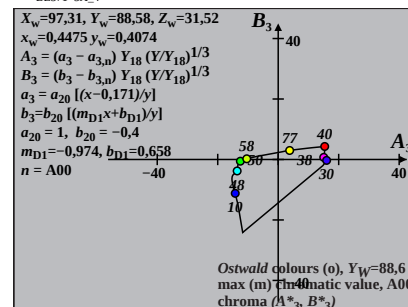
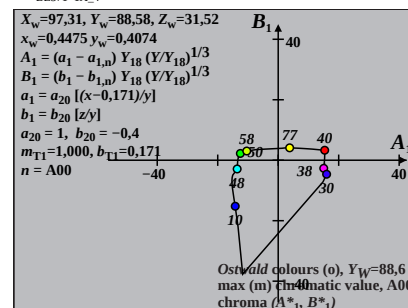
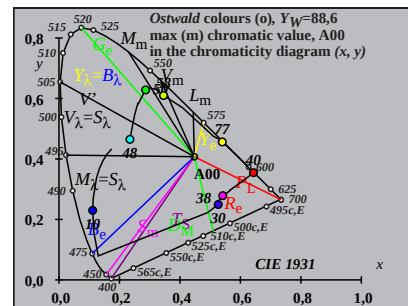
BE37-2A_3
BE37-2A_3
BE37-4A_3
BE37-6A_3
BE37-8A_3

input: w/rgb/cmyk -> rgb

Ostwald optimal colours (o) of maximum (m) C_{AB} for A00, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	34	574	75.1	-89.62	-34.47	96.02	0.1744	-0.0723	201.0	18 494 39 599 Cm
6	435	34	574	75.2	-92.9	-25.32	96.29	0.1726	-0.0689	195.2	19 496 42 611
9	450	34	574	75.35	-97.58	-9.35	98.03	0.17	-0.0628	185.4	20 501 -1 501c
12	460	35	575	75.46	-102.16	14.46	103.18	0.1674	-0.0539	171.9	21 508 -1 508c
13	465	35	575	75.61	-102.7	24.07	105.49	0.1672	-0.0503	166.8	22 512 -1 512c
13	470	35	576	75.98	-101.54	24.69	104.5	0.1681	-0.0501	166.3	22 513 -1 513c
14	475	35	577	76.43	-100.59	34.93	106.48	0.1689	-0.0463	160.8	23 519 -1 519c Gm
16	480	35	579	77.02	-97.98	54.06	111.9	0.1708	-0.0393	151.1	26 532 -1 532c
17	485	36	582	78.26	-92.08	64.5	112.42	0.1748	-0.0357	144.9	28 540 -1 540c
18	490	37	588	80.5	-81.29	76.14	111.38	0.1818	-0.0321	136.8	29 548 -1 548c max
19	495	40	601	84.99	-57.5	91.22	107.83	0.1962	-0.0282	122.2	31 559 -1 559c
20	500	-1	500c	93.78	-0.95	113.52	113.52	0.2256	-0.0237	90.4	35 576 13 469
21	510	-1	509c	93.25	1.28	119.63	119.63	0.2266	-0.0216	89.3	35 576 14 472
24	520	-1	520c	90.69	11.58	132.91	133.41	0.2317	-0.0164	85.0	35 579 16 480 Ym
26	530	-1	530c	88.07	20.99	147.0	148.49	0.2366	-0.0136	81.8	36 582 16 484
28	540	-1	540c	84.74	31.76	143.55	147.02	0.2426	-0.0113	77.5	37 585 17 487
28	545	-1	544c	84.74	31.76	143.55	147.02	0.2426	-0.0113	77.5	37 585 17 487
29	550	-1	549c	82.81	37.48	140.86	145.76	0.2459	-0.0105	75.0	37 586 17 489
31	555	-1	555c	78.4	49.14	134.01	142.73	0.2533	-0.0093	69.8	38 590 18 491
32	560	-1	560c	75.93	54.89	129.96	141.08	0.2573	-0.0089	67.1	38 593 18 492
34	574	1	405	77.02	58.79	61.28	84.92	0.2592	-0.0366	46.1	39 599 18 494 Rm
34	574	6	435	76.92	60.43	36.03	70.36	0.2601	-0.046	30.8	42 611 19 496
34	574	9	450	76.78	62.73	10.26	63.57	0.2615	-0.0555	9.2	-1 501c 20 501
35	575	12	460	76.67	64.86	-11.92	65.94	0.2627	-0.0637	349.5	-1 508c 21 508
35	575	13	465	76.52	65.45	-18.06	67.89	0.2631	-0.066	344.5	-1 512c 22 512
35	576	13	470	76.16	65.9	-18.68	68.5	0.2635	-0.0663	344.1	-1 513c 22 513
35	577	14	475	75.7	66.68	-24.34	70.99	0.2642	-0.0684	339.9	-1 519c 23 519 Mm
35	579	16	480	75.1	67.09	-32.36	74.49	0.2647	-0.0715	334.2	-1 532c 26 532
36	582	17	485	73.78	67.7	-37.04	77.17	0.2656	-0.0735	331.3	-1 540c 28 540
37	588	18	490	71.17	68.27	-43.39	80.89	0.2671	-0.0764	327.5	-1 548c 29 548 min
40	601	19	495	64.98	65.19	-55.52	85.63	0.2683	-0.0829	319.5	-1 559c 31 559
-1	500c	20	500	45.97	2.94	-89.46	89.51	0.2285	-0.109	271.8	13 469 35 576
-1	509c	21	510	47.57	-3.84	-87.66	87.74	0.2228	-0.1068	267.4	14 472 35 576
-1	520c	24	520	54.25	-30.32	-77.76	83.47	0.2034	-0.0974	248.6	16 480 35 579 Bm
-1	530c	26	530	59.7	-48.36	-68.89	84.17	0.1925	-0.0906	234.9	16 484 36 582
-1	540c	28	540	65.36	-62.97	-59.4	86.57	0.1854	-0.0844	223.3	17 487 37 585
-1	544c	28	545	65.36	-62.97	-59.4	86.57	0.1854	-0.0844	223.3	17 487 37 585
-1	549c	29	550	68.17	-68.41	-54.64	87.56	0.1834	-0.0817	218.6	17 489 37 586
-1	555c	31	555	73.61	-75.02	-45.35	87.66	0.1821	-0.0767	211.1	18 491 38 590
-1	560c	32	560	76.21	-76.11	-40.9	86.4	0.1827	-0.0746	208.2	18 492 38 593
380	770	95.41	0.0	0.0	0.0	0.0	0.226	-0.0593	0.0		

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)
Ostwald optimal colours for illuminant P45; diagram for illuminant P45, $Y_w=88,6$



input: w/rgb/cmyk -> rgb

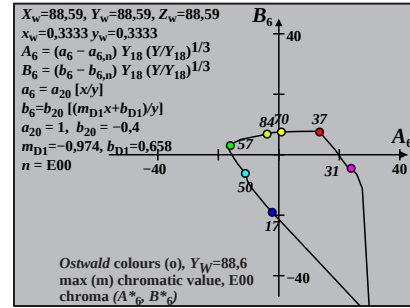
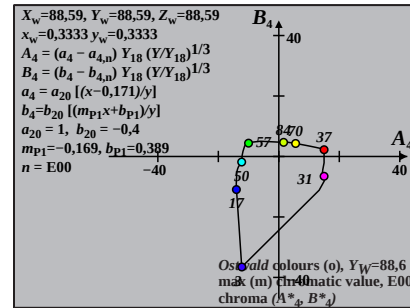
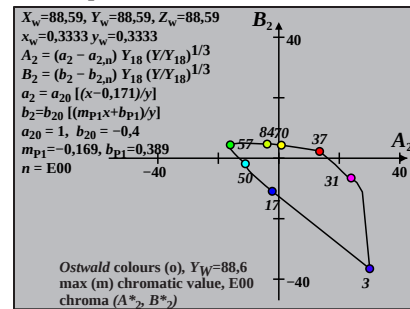
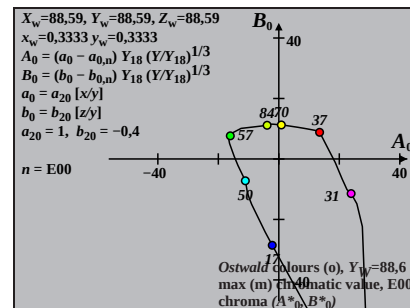
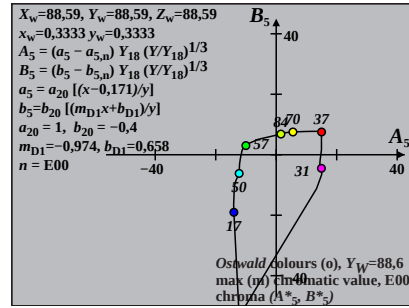
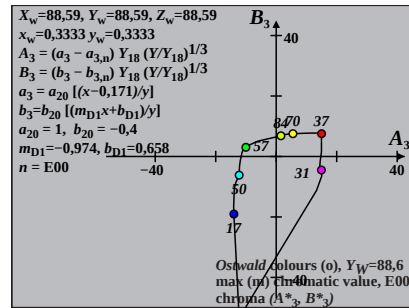
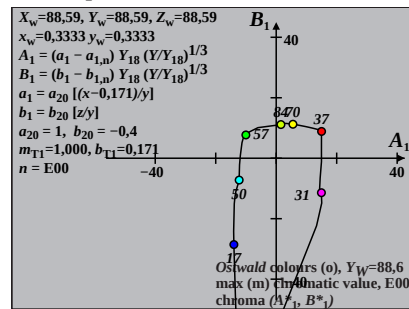
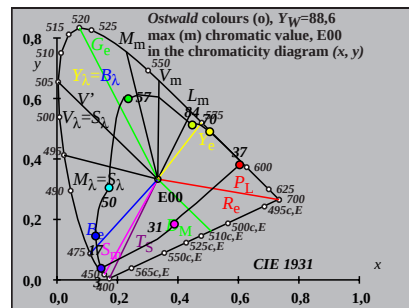
Ostwald optimal colours (o) of maximum (m) C_{AB} for E00, $Y_w=88,6$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	32	564	76.6	-69.08	-31.31	75.85	0.1811	-0.1001	204.3	16 484 38 592 Cm
6	435	33	565	76.87	-83.25	-16.62	84.9	0.1735	-0.0924	191.2	17 488 45 627
10	450	33	566	77.15	-105.94	13.16	106.75	0.1612	-0.0768	172.9	19 498 -1 498c
12	460	33	568	77.59	-114.64	33.12	119.33	0.1568	-0.0665	163.8	21 507 -1 507c
13	465	33	569	78.04	-116.79	44.15	124.86	0.1559	-0.0609	159.2	22 514 -1 514c
14	470	34	571	78.76	-115.98	55.46	128.56	0.1568	-0.0553	154.4	24 522 -1 522c
14	475	35	575	80.28	-110.87	58.06	125.16	0.1605	-0.0544	152.3	25 525 -1 525c Gm
16	480	36	581	82.07	-101.54	79.74	129.11	0.1664	-0.0442	141.8	27 538 -1 538c
17	485	39	595	85.98	-78.4	94.65	122.9	0.18	-0.0386	129.6	29 549 -1 549c
18	490	-1	490c	93.34	-19.39	114.83	116.45	0.21	-0.0327	99.5	33 568 11 459 max
19	495	-1	495c	92.82	-17.2	120.93	122.15	0.211	-0.0297	98.0	33 568 12 461
19	500	-1	499c	92.82	-17.2	120.93	122.15	0.211	-0.0297	98.0	33 568 12 461
22	510	-1	510c	90.25	-6.38	135.26	135.41	0.216	-0.0218	92.7	34 571 13 469
24	520	-1	520c	87.48	4.41	140.06	140.13	0.2212	-0.0178	88.1	34 574 14 473 Ym
26	530	-1	530c	83.91	16.98	139.43	140.46	0.2277	-0.0145	83.0	35 577 15 477
28	540	-1	540c	79.62	30.39	134.74	138.12	0.2352	-0.0119	77.2	36 581 15 479
29	545	-1	545c	77.23	37.16	131.33	136.49	0.2393	-0.0109	74.2	36 583 16 480
29	550	-1	549c	77.23	37.16	131.33	136.49	0.2393	-0.0109	74.2	36 583 16 480
30	555	-1	554c	74.68	43.84	127.41	134.75	0.2436	-0.0102	71.0	37 585 16 482
32	560	-1	560c	69.15	56.54	118.4	131.21	0.2528	-0.0092	64.4	38 590 16 483
32	564	1	405	75.53	52.02	56.66	76.92	0.2479	-0.0536	47.4	38 592 16 484 Rm
33	565	6	435	75.26	59.93	21.99	63.84	0.2524	-0.072	20.1	45 627 17 488
33	566	10	450	74.96	70.8	-11.79	71.78	0.2586	-0.09	350.5	-1 498c 19 498
33	568	12	460	74.5	75.51	-24.57	79.41	0.2615	-0.0969	341.9	-1 507c 21 507
33	569	13	465	74.01	77.68	-30.06	83.3	0.2629	-0.0999	338.8	-1 514c 22 514
34	571	14	470	73.22	79.58	-35.1	86.98	0.2644	-0.1028	336.1	-1 522c 24 522
35	575	14	475	71.44	82.38	-38.16	90.79	0.2669	-0.1049	335.1	-1 525c 25 525 Mm
36	581	16	480	69.16	84.14	-47.04	96.4	0.2693	-0.1106	330.7	-1 538c 27 538
39	595	17	485	63.38	84.88	-58.57	103.13	0.2734	-0.1196	325.3	-1 549c 29 549
-1	490c	18	490	47.3	46.95	-87.46	99.27	0.2568	-0.1509	298.2	11 459 33 568 min
-1	495c	19	495	48.83	40.54	-85.72	94.82	0.2508	-0.148	295.3	12 461 33 568
-1	499c	19	500	48.83	40.54	-85.72	94.82	0.2508	-0.148	295.3	12 461 33 568
-1	510c	22	510	55.24	13.41	-76.26	77.43	0.2286	-0.1357	279.9	13 469 34 571
-1	520c	24	520	60.79	-8.29	-67.14	67.65	0.2136	-0.1262	262.9	14 473 34 574 Bm
-1	530c	26	530	66.61	-27.96	-57.34	63.79	0.2018	-0.1174	244.0	15 477 35 577
-1	540c	28	540	72.23	-43.08	-47.77	64.32	0.1942	-0.11	227.9	15 479 36 581
-1	545c	29	545	74.88	-48.61	-43.22	65.04	0.1919	-0.1068	221.6	16 480 36 583
-1	549c	29	550	74.88	-48.61	-43.22	65.04	0.1919	-0.1068	221.6	16 480 36 583
-1	554c	30	555	77.42	-52.73	-38.87	65.51	0.1904	-0.1039	216.3	16 482 37 585
-1	560c	32	560	82.08	-56.81	-30.85	64.64	0.1896	-0.099	208.5	16 483 38 590
380	770	95.41	0.0	0.0	0.0	0.2191	-0.0837	0.0			

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)

Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



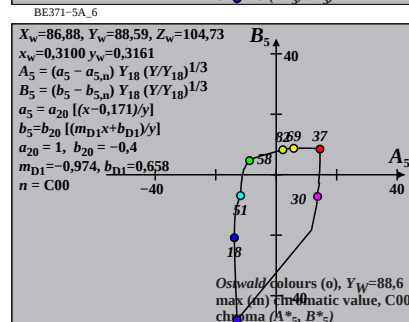
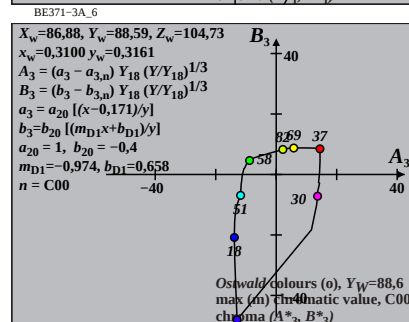
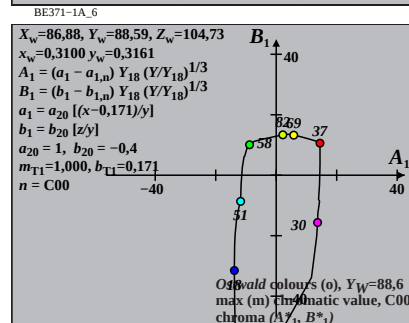
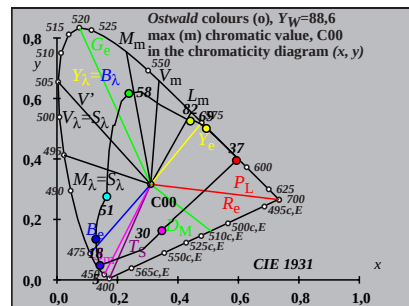
Ostwald optimal colours (o) of maximum (m) C_{AB} for C00, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	32	562	76.74	-60.71	-31.53	68.41	0.1846	-0.106	207.4	16 482 37 589 Cm
6	435	32	563	77.1	-75.59	-18.15	77.74	0.1766	-0.0985	193.5	17 486 42 612
10	450	32	564	77.49	-103.41	12.37	104.15	0.1618	-0.0817	173.1	19 496 -1 496c
11	460	33	566	78.25	-108.37	23.18	110.82	0.1595	-0.0759	167.9	20 501 -1 501c
13	465	33	568	78.6	-116.95	44.69	125.2	0.1552	-0.0642	159.0	22 513 -1 513c
14	470	34	570	79.49	-116.54	56.8	129.65	0.156	-0.058	154.0	24 522 -1 522c
15	475	35	575	80.97	-111.59	69.55	131.5	0.1595	-0.0517	148.0	26 530 -1 530c Gm
16	480	36	582	83.43	-99.04	83.37	129.46	0.1673	-0.0454	139.9	28 540 -1 540c
16	485	40	602	88.52	-69.85	92.1	115.59	0.1839	-0.0432	127.1	30 551 -1 551c
18	490	-1	490c	92.88	-23.61	116.49	118.86	0.2067	-0.0335	101.4	33 566 11 459 max
19	495	-1	495c	92.27	-21.08	122.81	124.61	0.2078	-0.0302	99.7	33 567 12 462
19	500	-1	499c	92.27	-21.08	122.81	124.61	0.2078	-0.0302	99.7	33 567 12 462
21	510	-1	509c	90.63	-14.11	133.09	133.84	0.2109	-0.0244	96.0	33 568 13 466
24	520	-1	520c	86.82	0.98	138.89	138.89	0.2181	-0.018	89.5	34 572 14 472 Ym
26	530	-1	530c	83.24	13.42	138.16	138.82	0.2245	-0.0147	84.4	35 575 15 475
28	540	-1	540c	78.78	27.18	133.23	135.98	0.2321	-0.0121	78.4	35 579 15 478
28	545	-1	544c	78.78	27.18	133.23	135.98	0.2321	-0.0121	78.4	35 579 15 478
29	550	-1	549c	76.22	34.3	129.57	134.04	0.2364	-0.0111	75.1	36 581 15 479
31	555	-1	555c	70.53	48.35	120.57	129.91	0.2459	-0.0097	68.1	37 586 16 481
31	560	-1	559c	70.53	48.35	120.57	129.91	0.2459	-0.0097	68.1	37 586 16 481
32	562	1	405	75.39	47.53	58.07	75.05	0.2439	-0.0559	50.6	37 589 16 482 Rm
32	563	6	435	75.02	56.57	24.98	61.85	0.249	-0.0744	23.8	42 612 17 486
32	564	10	450	74.6	70.7	-11.34	71.6	0.257	-0.095	350.8	-1 496c 19 496
33	566	11	460	73.79	74.94	-19.51	77.44	0.2598	-0.0997	345.4	-1 501c 20 501
33	568	13	465	73.4	79.46	-30.95	85.28	0.2625	-0.1063	338.7	-1 513c 22 513
34	570	14	470	72.38	82.16	-36.58	89.94	0.2646	-0.1098	336.0	-1 522c 24 522
35	575	15	475	70.59	85.04	-42.63	95.13	0.2672	-0.1138	333.3	-1 530c 26 530 Mm
36	582	16	480	67.3	87.79	-50.52	101.29	0.2709	-0.1197	330.0	-1 540c 28 540
40	602	16	485	58.85	89.22	-65.08	110.44	0.2779	-0.1332	323.8	-1 551c 30 551
-1	490c	18	490	48.66	52.94	-85.45	100.53	0.259	-0.1564	301.7	11 459 33 566 min
-1	495c	19	495	50.34	45.9	-83.43	95.22	0.2526	-0.1531	298.8	12 462 33 567
-1	499c	19	500	50.34	45.9	-83.43	95.22	0.2526	-0.1531	298.8	12 462 33 567
-1	509c	21	510	54.38	28.62	-77.55	82.66	0.2382	-0.1451	290.2	13 466 33 568
-1	520c	24	520	61.97	-1.71	-65.17	65.19	0.2165	-0.1315	268.4	14 472 34 572 Bm
-1	530c	26	530	67.56	-20.71	-55.73	59.45	0.2051	-0.1228	249.6	15 475 35 575
-1	540c	28	540	73.19	-36.06	-46.12	58.55	0.1972	-0.1151	231.9	15 478 35 579
-1	544c	28	545	73.19	-36.06	-46.12	58.55	0.1972	-0.1151	231.9	15 478 35 579
-1	549c	29	550	75.92	-41.87	-41.45	58.92	0.1946	-0.1117	224.7	15 479 36 581
-1	555c	31	555	81.02	-49.23	-32.68	59.1	0.192	-0.1058	213.5	16 481 37 586
-1	559c	31	560	81.02	-49.23	-32.68	59.1	0.192	-0.1058	213.5	16 481 37 586
380	770	95.41	0.0	0.0	0.0	0.0	0.2176	-0.0885	0.0		

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)

Ostwald optimal colours for illuminant P35; diagram for illuminant P35, $Y_w=88,6$

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BE371-1A_6

BE371-2A_6

BE371-3A_6

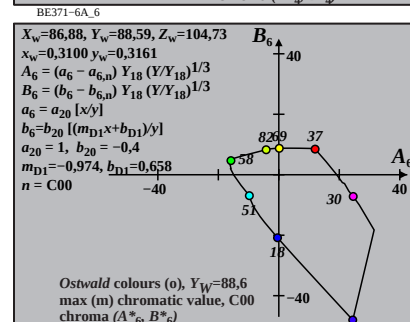
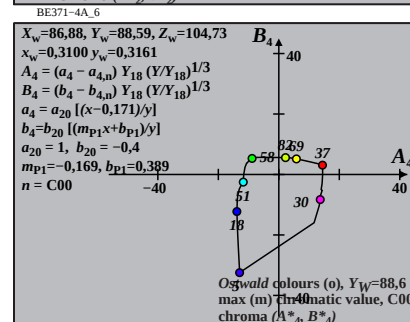
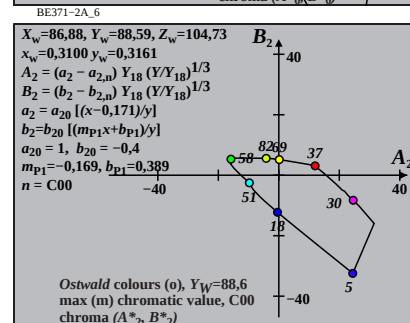
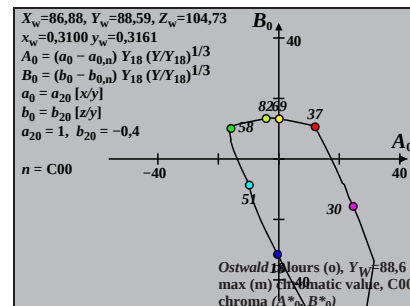
BE371-4A_6

BE371-5A_6

BE371-6A_6

BE371-7A_6

BE371-8A_6



BE371-1A_6

BE371-2A_6

BE371-3A_6

BE371-4A_6

BE371-5A_6

BE371-6A_6

BE371-7A_6

BE371-8A_6

TUB registration: 20170801-BE37/BE37L0NP.PDF /.PS
application for measurement of offset print output

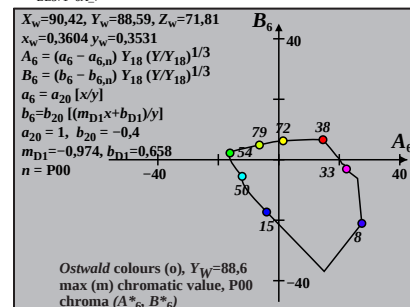
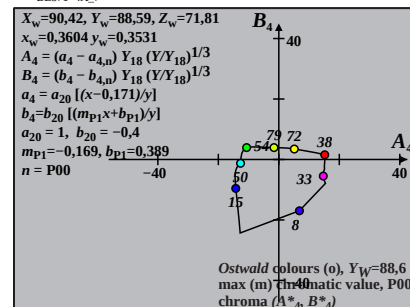
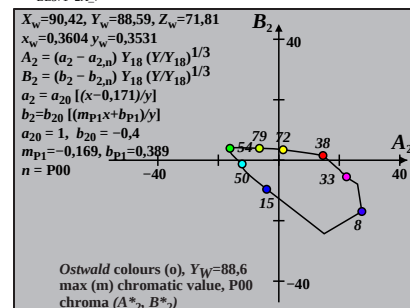
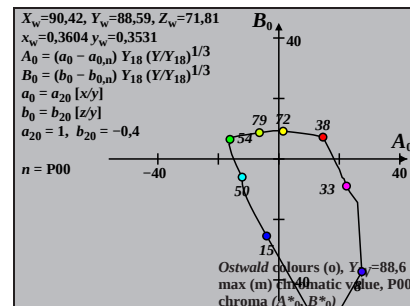
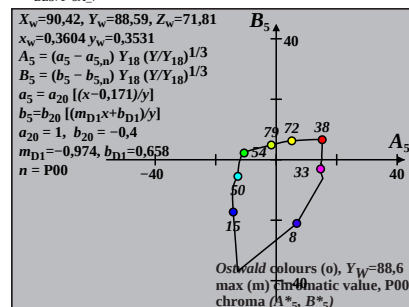
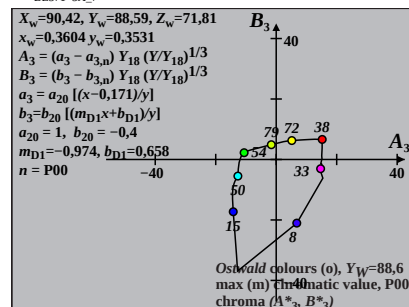
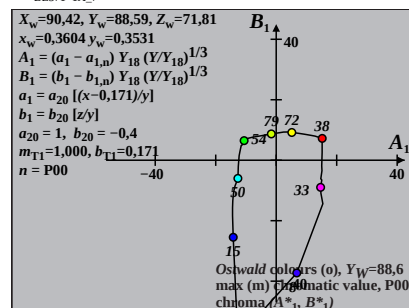
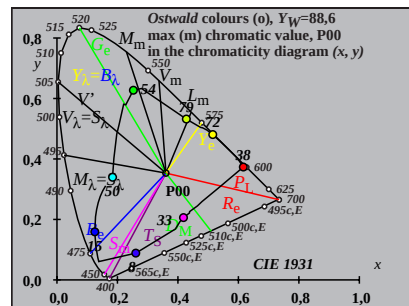
TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C_{AB} for P00, $Y_w=88,6$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	33	567	76.28	-75.76	-31.99	82.24	0.1785	-0.0938	202.8	17 486 38 594 Cm
7	435	33	567	76.45	-91.19	-12.54	92.04	0.1701	-0.0842	187.8	18 491 -1 491c
10	450	33	568	76.72	-104.67	10.21	105.17	0.1628	-0.0731	174.4	19 499 -1 499c
12	460	34	570	77.07	-111.67	29.59	115.53	0.1591	-0.0636	165.1	21 507 -1 507c
13	465	34	571	77.42	-113.05	40.29	120.02	0.1586	-0.0585	160.3	22 513 -1 513c
13	470	34	572	78.21	-110.59	41.65	118.18	0.1605	-0.058	159.3	23 515 -1 515c
15	475	35	575	78.99	-109.18	62.54	125.83	0.1617	-0.0482	150.1	25 529 -1 529c Gm
16	480	36	580	80.69	-101.36	74.39	125.73	0.1669	-0.0432	143.7	27 537 -1 537c
17	485	37	589	83.72	-84.91	87.82	122.15	0.177	-0.0381	134.0	29 547 -1 547c
18	490	45	625	91.14	-33.9	108.12	113.31	0.2043	-0.0323	107.4	32 564 -1 564c max
18	495	-1	494c	93.66	-14.29	112.46	113.37	0.2139	-0.0316	97.2	34 570 12 460
20	500	-1	500c	92.6	-9.81	124.47	124.86	0.2159	-0.0261	94.5	34 571 13 465
22	510	-1	510c	90.89	-2.62	133.86	133.89	0.2193	-0.0213	91.1	34 573 14 470
24	520	-1	520c	88.36	7.29	141.96	142.15	0.2241	-0.0175	87.0	35 575 14 474 Ym
25	530	-1	529c	86.79	12.99	142.28	142.87	0.227	-0.0158	84.7	35 577 15 476
28	540	-1	540c	81.0	31.75	137.12	140.75	0.2373	-0.0117	76.9	36 582 16 481
28	545	-1	544c	81.0	31.75	137.12	140.75	0.2373	-0.0117	76.9	36 582 16 481
30	550	-1	550c	76.31	44.71	130.19	137.66	0.2453	-0.0101	71.0	37 586 16 483
30	555	-1	554c	76.31	44.71	130.19	137.66	0.2453	-0.0101	71.0	37 586 16 483
32	560	-1	560c	70.99	57.12	121.54	134.3	0.2542	-0.0091	64.8	38 591 17 485
33	567	1	405	75.86	54.85	57.65	79.58	0.2511	-0.0496	46.4	38 594 17 486 Rm
33	567	7	435	75.69	62.65	15.19	64.46	0.2555	-0.0705	13.6	-1 491c 18 491
33	568	10	450	75.41	69.11	-9.29	69.74	0.2593	-0.0827	352.3	-1 499c 19 499
34	570	12	460	75.05	72.86	-22.26	76.19	0.2615	-0.0891	343.0	-1 507c 21 507
34	571	13	465	74.68	74.39	-27.74	79.39	0.2625	-0.0919	339.5	-1 513c 22 513
34	572	13	470	73.83	75.74	-29.21	81.17	0.2637	-0.0928	338.9	-1 515c 23 515
35	575	15	475	72.95	77.52	-37.58	86.15	0.2652	-0.0972	334.1	-1 529c 25 529 Mm
36	580	16	480	70.94	79.35	-43.32	90.41	0.2673	-0.1006	331.3	-1 537c 27 537
37	589	17	485	66.88	80.65	-52.01	95.97	0.2704	-0.1065	327.1	-1 547c 29 547
45	625	18	490	53.19	61.79	-76.9	98.65	0.2663	-0.1284	308.7	-1 564c 32 564 min
-1	494c	18	495	46.34	37.45	-88.7	96.29	0.2513	-0.1425	292.8	12 460 34 570
-1	500c	20	500	49.43	24.32	-85.1	88.51	0.2396	-0.137	285.9	13 465 34 571
-1	510c	22	510	53.78	6.0	-78.62	78.85	0.225	-0.1291	274.3	14 470 34 573
-1	520c	24	520	59.16	-14.97	-69.87	71.45	0.2104	-0.1202	257.9	14 474 35 575 Bm
-1	529c	25	530	62.02	-25.04	-65.09	69.74	0.2041	-0.1158	248.9	15 476 35 577
-1	540c	28	540	70.54	-49.21	-50.65	70.62	0.1914	-0.1046	225.8	16 481 36 582
-1	544c	28	545	70.54	-49.21	-50.65	70.62	0.1914	-0.1046	225.8	16 481 36 582
-1	550c	30	550	75.83	-58.74	-41.6	71.98	0.1878	-0.0986	215.3	16 483 37 586
-1	554c	30	555	75.83	-58.74	-41.6	71.98	0.1878	-0.0986	215.3	16 483 37 586
-1	560c	32	560	80.64	-62.64	-33.32	70.95	0.1874	-0.0937	208.0	17 485 38 591
380	770	95.41	0.0	0.0	0.0	0.2205	-0.078	0.0			

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)

Ostwald optimal colours for illuminant P30; diagram for illuminant P30, $Y_w=88,6$

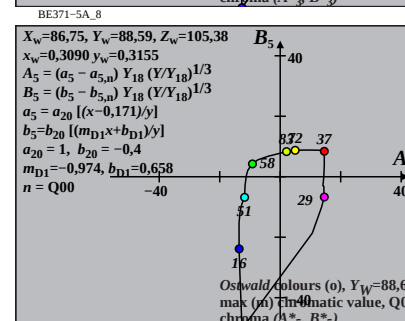
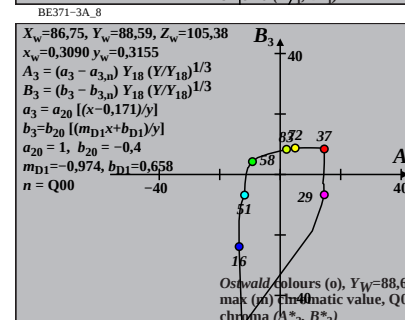
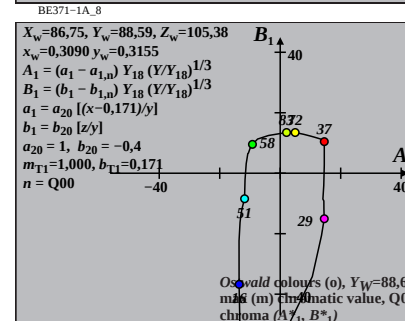
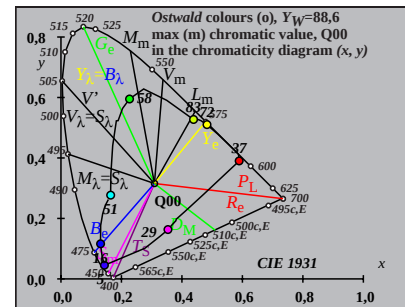


input: w/rgb/cmyk -> rgb

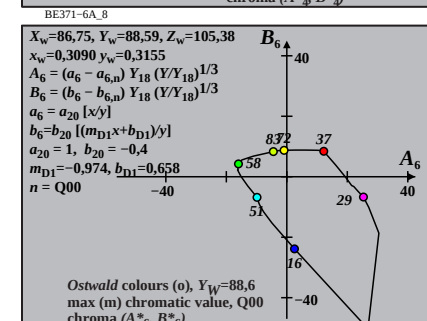
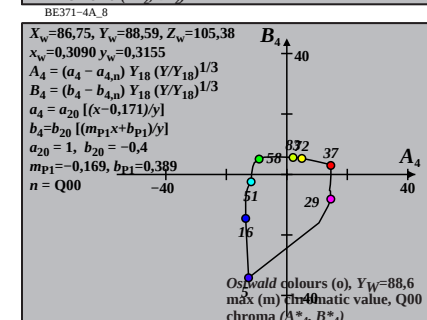
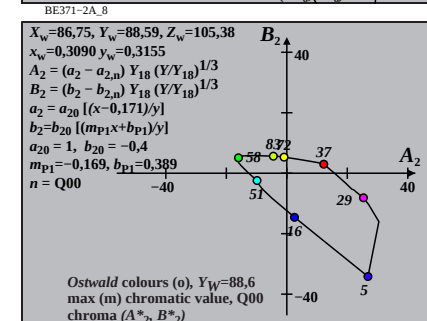
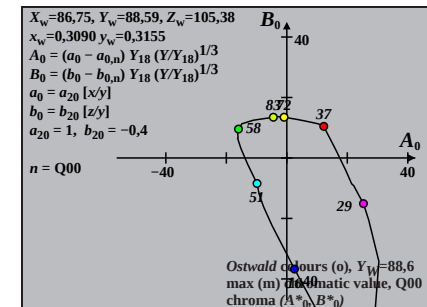
Ostwald optimal colours (o) of maximum (m) C_{AB} for Q00, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	32	562	76.85	-61.69	-30.8	68.96	0.184	-0.1058	206.5	16 482 38 590 Cm
7	435	32	562	77.12	-85.98	-9.06	86.46	0.1709	-0.0937	186.0	17 488 -1 488c
10	450	32	564	77.54	-107.01	15.39	108.11	0.1598	-0.0802	171.8	19 497 -1 497c
11	460	33	566	78.27	-111.81	26.05	114.81	0.1576	-0.0745	166.8	20 502 -1 502c
12	465	33	568	78.85	-115.61	37.13	121.43	0.156	-0.0685	162.1	21 508 -1 508c
14	470	34	570	79.49	-119.49	58.78	133.16	0.1544	-0.057	153.8	24 522 -1 522c
15	475	35	575	80.95	-114.37	70.98	134.61	0.158	-0.051	148.1	26 530 -1 530c Gm
16	480	36	582	83.44	-101.44	84.23	131.86	0.166	-0.0451	140.2	27 539 -1 539c
17	485	40	602	88.26	-69.44	100.69	122.32	0.1839	-0.039	124.5	30 552 -1 552c
17	490	-1	489c	93.5	-26.76	109.71	112.92	0.2052	-0.0371	103.7	33 565 11 455 max
18	495	-1	494c	93.02	-24.95	116.4	119.05	0.206	-0.0337	102.1	33 565 11 458
20	500	-1	500c	91.69	-19.34	127.67	129.13	0.2085	-0.0276	98.6	33 567 12 463
21	510	-1	509c	90.76	-15.37	132.32	133.21	0.2103	-0.0249	96.6	33 568 13 465
23	520	-1	519c	88.21	-5.04	136.25	136.34	0.2151	-0.0202	92.1	34 571 14 470 Ym
26	530	-1	530c	82.75	14.51	137.34	138.11	0.2249	-0.0148	83.9	35 576 15 475
27	540	-1	539c	80.55	21.53	135.24	136.94	0.2288	-0.0133	80.9	35 578 15 477
28	545	-1	544c	78.19	28.62	132.28	135.34	0.2329	-0.0121	77.7	36 580 15 478
29	550	-1	549c	75.66	35.67	128.66	133.52	0.2372	-0.0111	74.5	36 582 15 479
30	555	-1	554c	72.99	42.59	124.53	131.61	0.2417	-0.0103	71.1	36 584 16 480
31	560	-1	559c	70.17	49.27	119.99	129.71	0.2464	-0.0097	67.6	37 587 16 481
32	562	1	405	75.27	48.33	55.93	73.92	0.2443	-0.0571	49.1	38 590 16 482 Rm
32	562	7	435	75.0	61.85	10.76	62.78	0.2518	-0.0826	9.8	-1 488c 17 488
32	564	10	450	74.55	72.34	-13.67	73.62	0.2579	-0.0965	34.9	-1 497c 19 497
33	566	11	460	73.76	76.43	-21.31	79.34	0.2605	-0.1009	34.4	-1 502c 20 502
33	568	12	465	73.11	79.73	-27.87	84.46	0.2627	-0.1048	34.0	-1 508c 21 508
34	570	14	470	72.37	83.36	-37.21	91.29	0.2652	-0.1104	33.9	-1 522c 24 522
35	575	15	475	70.61	86.23	-42.97	96.35	0.2678	-0.1142	33.5	-1 530c 26 530 Mm
36	582	16	480	67.28	89.14	-50.72	102.56	0.2716	-0.1201	33.0	-1 539c 27 539
40	602	17	485	59.34	87.67	-65.89	109.67	0.2763	-0.1337	32.3	-1 552c 30 552
-1	489c	17	490	46.85	61.62	-87.44	106.97	0.2671	-0.1603	30.5	11 455 33 565 min
-1	494c	18	495	48.24	56.02	-86.14	102.75	0.2616	-0.1577	30.3	11 458 33 565
-1	500c	20	500	51.83	40.79	-81.41	91.06	0.2479	-0.1505	29.6	12 463 33 567
-1	509c	21	510	54.09	31.17	-78.0	84.0	0.24	-0.146	29.1	13 465 33 568
-1	519c	23	520	59.43	9.26	-69.37	69.99	0.2237	-0.1361	27.6	14 470 34 571 Bm
-1	530c	26	530	68.25	-21.91	-54.54	58.78	0.2044	-0.122	24.8	15 475 35 576
-1	539c	27	540	71.11	-30.21	-49.68	58.14	0.2	-0.1181	23.8	15 477 35 578
-1	544c	28	545	73.85	-37.16	-44.98	58.35	0.1966	-0.1145	23.0	15 478 36 580
-1	549c	29	550	76.47	-42.72	-40.49	58.86	0.1942	-0.1112	22.3	15 479 36 582
-1	554c	30	555	78.96	-46.87	-36.23	59.24	0.1926	-0.1083	21.7	16 480 36 584
-1	559c	31	560	81.3	-49.64	-32.2	59.18	0.1918	-0.1057	21.2	16 481 37 587
380	770	95.41	0.0	0.0	0.0	0.2175	-0.0887	0.0			

TUB-test chart BE37; CIE (x, y) and chroma (A^*_i, B^*_i)
Ostwald optimal colours for illuminant P25; diagram for illuminant P25, $Y_w=88,6$



BE371-7A_8



BE371-8A_8

TUB registration: 20170801-BE37/BE37L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

input: w/rgb/cmyk -> rgb