

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR10	1.5e-3	0 - 20	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM												
0	all	24.384	7.882	0.493	0.826	SNR = 10	Label	Airplane	Automobile	Bird	Cat	Deer	Dog	Frog	Horse	Ship	Truck
5	all	27.160	6.644	0.415	0.901		PSNR	29.734	27.465	29.227	28.587	28.865	28.596	27.648	28.032	29.329	27.557
10	all	28.500	4.601	0.288	0.925		Channel	4.323	5.232	4.313	4.469	4.297	4.481	4.667	4.752	4.296	5.169
15	all	30.055	4.212	0.263	0.944		CPP	0.270	0.327	0.270	0.279	0.269	0.280	0.292	0.297	0.269	0.323
20	all	30.914	4.176	0.261	0.952		SSIM	0.938	0.933	0.920	0.926	0.907	0.935	0.899	0.933	0.933	0.928
25	all	31.178	4.145	0.259	0.954	SNR = 15	Label	Airplane	Automobile	Bird	Cat	Deer	Dog	Frog	Horse	Ship	Truck
30	all	31.181	4.134	0.258	0.955		PSNR	31.412	28.777	30.809	30.303	30.412	30.332	29.040	29.565	30.999	28.922
							Channel	4.132	4.440	4.113	4.138	4.117	4.121	4.300	4.233	4.110	4.430
							CPP	0.258	0.278	0.257	0.259	0.257	0.258	0.269	0.265	0.257	0.277
							SSIM	0.954	0.949	0.940	0.947	0.931	0.955	0.922	0.951	0.950	0.945

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR100	1.5e-3	0 - 20	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM	SNR = 10		Aquatic mammals	Fish	Flowers	Food containers	Fruit and vegetables	Household electrical devices	Household furniture	Insects	Large carnivores	Large man-made outdoor things	Large natural outdoor scenes	Large omnivores and herbivores	Medium-sized mammals	Non-insect invertebrates	People	Reptiles	Small mammals	Trees	Vehicles 1	Vehicles 2	
0	all	24.355	7.889	0.493	0.812		Label	4,30,55,72,95	1,32,67,73,91	54,62,70,82,92	9,10,16,28,61	0,51,53,57,83	22,39,40,86,87	5,20,25,84,94	6,7,14,18,24	3,42,43,88,97	12,17,37,68,76	23,33,49,60,71	15,19,21,31,38	34,63,64,66,75	26,45,77,79,99	2,11,35,46,98	27,29,44,78,93	36,50,65,74,80	47,52,56,59,96	8,13,48,58,90	41,69,81,85,89	
5	all	27.083	6.659	0.416	0.891		PSNR	29.039	29.020	26.609	28.848	27.892	28.490	28.747	27.830	27.596	29.053	30.923	28.121	28.039	28.550	27.720	28.250	28.737	27.949	27.065	27.984	
10	all	28.328	4.503	0.281	0.915		Channel	4,154	4,250	5,452	4,522	4,818	4,798	4,406	4,630	4,474	4,198	4,086	4,356	4,354	4,552	4,550	4,382	4,206	4,278	5,038	4,518	
15	all	29.903	4.126	0.258	0.936		CPP	30,765	4,107	0,266	0,341	0,283	0,301	0,300	0,275	0,289	0,280	0,262	0,255	0,272	0,272	0,285	0,284	0,274	0,263	0,267	0,315	0,282
20	all	30.765	4.107	0.257	0.944		SSIM	0,922	0,915	0,889	0,922	0,909	0,928	0,923	0,906	0,907	0,926	0,923	0,924	0,915	0,911	0,924	0,912	0,916	0,892	0,916	0,921	
25	all	31.051	4.098	0.256	0.947		SNR = 10	Flowers	PSNR	Channel	CPP	SSIM	SNR = 10	Large natural outdoor scenes	PSNR	Channel	CPP	SSIM										
30	all	31.057	4.087	0.255	0.947	Orchid (54)		26,928	5,470	0,342	0,910	Cloud (23)		31,995	4,020	0,251	0,935											
						Poppy (62)		26,716	5,480	0,343	0,875	Forest (33)		28,626	4,200	0,263	0,887											
						Rose (70)		26,704	5,450	0,341	0,885	Mountain (49)		29,472	4,150	0,259	0,920											
						Sunflower (82)		26,486	5,280	0,330	0,879	Plain (60)		32,051	4,020	0,251	0,925											
						Tulip (92)		26,372	5,780	0,361	0,894	Sea (71)		32,643	4,020	0,251	0,946											

		Aquatic mammals	Fish	Flowers	Food containers	Fruit and vegetables	Household electrical devices	Household furniture	Insects	Large carnivores	Large man-made outdoor things	Large natural outdoor scenes	Large omnivores and herbivores	Medium-sized mammals	Non-insect invertebrates	People	Reptiles	Small mammals	Trees	Vehicles 1	Vehicles 2
SNR = 15	Label	4.30,55,72.95	1.32,67,73.91	54.62,70,82.92	9.10,16,28.61	0.51,53,57.83	22.39,40,86.87	5.20,25,84.96	6.71,14,18.24	3.42,43,88.97	12.17,33,68.76	23.33,49,60.71	15.19,21,31.38	34.63,64,66.75	26.45,77,79.99	2.11,35,46.98	27.29,44,78.93	36.50,65,74.80	47.52,56,59.96	8.13,48,58.90	41.69,81,85.89
	PSNR	30.856	30.752	27.720	30.393	29.372	30.013	30.496	29.184	29.133	30.883	32.708	29.830	29.622	29.994	29.796	30.483	29.587	28.293	29.487	
	Channel	4.020	4.076	4.512	4.110	4.214	4.158	4.092	4.200	4.134	4.042	4.024	4.054	4.062	4.142	4.104	4.088	4.046	4.058	4.246	4.126
	CPP	0.251	0.255	0.282	0.257	0.263	0.260	0.256	0.263	0.258	0.253	0.252	0.253	0.254	0.259	0.257	0.256	0.254	0.265	0.258	
	SSIM	0.944	0.937	0.908	0.940	0.928	0.945	0.943	0.925	0.930	0.947	0.943	0.946	0.938	0.931	0.944	0.933	0.940	0.920	0.932	0.939
SNR = 15	Flowers	PSNR	Channel	CPP	SSIM	SNR = 15	Large natural outdoor scenes	PSNR	Channel	CPP	SSIM										
	Orchid (54)	27.952	4.380	0.274	0.926		Cloud (23)	34.027	4.000	0.250	0.955										
	Poppy (62)	27.882	4.570	0.286	0.897		Forest (33)	30.215	4.080	0.255	0.913										
	Rose (70)	27.725	4.430	0.277	0.904		Mountain (49)	31.304	4.030	0.252	0.942										
	Sunflower (82)	27.557	4.430	0.277	0.899		Plain (60)	33.615	4.000	0.250	0.944										
	Tulip (92)	27.393	4.660	0.291	0.912		Sea (71)	34.446	4.010	0.251	0.960										

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR10	1.5e-3	10 - 25	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM
0	all	24.546	7.864	0.492	0.823
5	all	27.089	7.353	0.460	0.896
10	all	28.047	6.520	0.408	0.916
15	all	27.486	6.051	0.378	0.912
20	all	26.268	5.912	0.370	0.897
25	all	23.969	5.854	0.366	0.861
30	all	21.654	5.953	0.372	0.813

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR100	5e-4	10 - 25	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM
0	all	24.522	8.000	0.500	0.809
5	all	27.239	8.000	0.500	0.889
10	all	28.737	8.000	0.500	0.917
15	all	28.942	7.955	0.497	0.923
20	all	27.340	7.502	0.469	0.896
25	all	23.785	6.512	0.407	0.829
30	all	19.703	5.680	0.355	0.737

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR10	5e-4	0 - 20	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM
0	all	24.448	8.000	0.500	0.827
5	all	28.242	7.998	0.500	0.921
10	all	31.217	7.895	0.493	0.958
15	all	32.898	7.449	0.466	0.970
20	all	33.631	7.001	0.438	0.974
25	all	33.767	6.796	0.425	0.975
30	all	33.269	6.626	0.414	0.971

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR10	5e-4	10 - 25	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM
0	all	24.615	8.000	0.500	0.826
5	all	27.443	8.000	0.500	0.904
10	all	29.049	8.000	0.500	0.931
15	all	29.264	7.956	0.497	0.935
20	all	27.759	7.684	0.480	0.914
25	all	24.333	7.042	0.440	0.855
30	all	18.232	6.100	0.381	0.719

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR100	5e-4	0 - 20	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM
0	all	24.435	8.000	0.500	0.815
5	all	28.147	7.986	0.499	0.912
10	all	30.971	7.755	0.485	0.950
15	all	32.643	7.218	0.451	0.965
20	all	33.534	6.997	0.437	0.970
25	all	33.841	6.966	0.435	0.972
30	all	33.782	6.950	0.434	0.972

Dataset	$\alpha$	SNR - train	# channel x test
CIFAR100	1.5e-3	10 - 25	1

SNR - test	Classes	PSNR - test	Channel	CPP	SSIM
0	all	24.431	7.856	0.491	0.806
5	all	26.855	7.351	0.459	0.881
10	all	27.748	6.668	0.417	0.903
15	all	26.768	6.138	0.384	0.890
20	all	24.935	5.742	0.359	0.854
25	all	21.933	5.436	0.340	0.793
30	all	17.831	5.217	0.326	0.699