

NRF SAMPLE (ms)																				
us	s	8 chan	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144
50	0.00005	0.00005	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2
70	0.00007	0.00007	0.56	1.12	1.68	2.24	2.8	3.36	3.92	4.48	5.04	5.6	6.16	6.72	7.28	7.84	8.4	8.96	9.52	10.08
80	0.00008	0.00008	0.64	1.28	1.92	2.56	3.2	3.84	4.48	5.12	5.76	6.4	7.04	7.68	8.32	8.96	9.6	10.24	10.88	11.52
90	0.00009	0.00009	0.72	1.44	2.16	2.88	3.6	4.32	5.04	5.76	6.48	7.2	7.92	8.64	9.36	10.08	10.8	11.52	12.24	12.96
100	0.0001	0.0001	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8	8.8	9.6	10.4	11.2	12	12.8	13.6	14.4
110	0.00011	0.00011	0.88	1.76	2.64	3.52	4.4	5.28	6.16	7.04	7.92	8.8	9.68	10.56	11.44	12.32	13.2	14.08	14.96	15.84
120	0.00012	0.00012	0.96	1.92	2.88	3.84	4.8	5.76	6.72	7.68	8.64	9.6	10.56	11.52	12.48	13.44	14.4	15.36	16.32	17.28
130	0.00013	0.00013	1.04	2.08	3.12	4.16	5.2	6.24	7.28	8.32	9.36	10.4	11.44	12.48	13.52	14.56	15.6	16.64	17.68	18.72
140	0.00014	0.00014	1.12	2.24	3.36	4.48	5.6	6.72	7.84	8.96	10.08	11.2	12.32	13.44	14.56	15.68	16.8	17.92	19.04	20.16
150	0.00015	0.00015	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	19.2	20.4	21.6
160	0.00016	0.00016	1.28	2.56	3.84	5.12	6.4	7.68	8.96	10.24	11.52	12.8	14.08	15.36	16.64	17.92	19.2	20.48	21.76	23.04
170	0.00017	0.00017	1.36	2.72	4.08	5.44	6.8	8.16	9.52	10.88	12.24	13.6	14.96	16.32	17.68	19.04	20.4	21.76	23.12	24.48
180	0.00018	0.00018	1.44	2.88	4.32	5.76	7.2	8.64	10.08	11.52	12.96	14.4	15.84	17.28	18.72	20.16	21.6	23.04	24.48	25.92
190	0.00019	0.00019	1.52	3.04	4.56	6.08	7.6	9.12	10.64	12.16	13.68	15.2	16.72	18.24	19.76	21.28	22.8	24.32	25.84	27.36
200	0.0002	0.0002	1.6	3.2	4.8	6.4	8	9.6	11.2	12.8	14.4	16	17.6	19.2	20.8	22.4	24	25.6	27.2	28.8
210	0.00021	0.00021	1.68	3.36	5.04	6.72	8.4	10.08	11.76	13.44	15.12	16.8	18.48	20.16	21.84	23.52	25.2	26.88	28.56	30.24
220	0.00022	0.00022	1.76	3.52	5.28	7.04	8.8	10.56	12.32	14.08	15.84	17.6	19.36	21.12	22.88	24.64	26.4	28.16	29.92	31.68
230	0.00023	0.00023	1.84	3.68	5.52	7.36	9.2	11.04	12.88	14.72	16.56	18.4	20.24	22.08	23.92	25.76	27.6	29.44	31.28	33.12
240	0.00024	0.00024	1.92	3.84	5.76	7.68	9.6	11.52	13.44	15.36	17.28	19.2	21.12	23.04	24.96	26.88	28.8	30.72	32.64	34.56
250	0.00025	0.00025	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
260	0.00026	0.00026	2.08	4.16	6.24	8.32	10.4	12.48	14.56	16.64	18.72	20.8	22.88	24.96	27.04	29.12	31.2	33.28	35.36	37.44
270	0.00027	0.00027	2.16	4.32	6.48	8.64	10.8	12.96	15.12	17.28	19.44	21.6	23.76	25.92	28.08	30.24	32.4	34.56	36.72	38.88
280	0.00028	0.00028	2.24	4.48	6.72	8.96	11.2	13.44	15.68	17.92	20.16	22.4	24.64	26.88	29.12	31.36	33.6	35.84	38.08	40.32
290	0.00029	0.00029	2.32	4.64	6.96	9.28	11.6	13.92	16.24	18.56	20.88	23.2	25.52	27.84	30.16	32.48	34.8	37.12	39.44	41.76
300	0.0003	0.0003	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6	24	26.4	28.8	31.2	33.6	36	38.4	40.8	43.2
310	0.00031	0.00031	2.48	4.96	7.44	9.92	12.4	14.88	17.36	19.84	22.32	24.8	27.28	29.76	32.24	34.72	37.2	39.68	42.16	44.64
320	0.00032	0.00032	2.56	5.12	7.68	10.24	12.8	15.36	17.92	20.48	23.04	25.6	28.16	30.72	33.28	35.84	38.4	40.96	43.52	46.08
330	0.00033	0.00033	2.64	5.28	7.92	10.56	13.2	15.84	18.48	21.12	23.76	26.4	29.04	31.68	34.32	36.96	39.6	42.24	44.88	47.52
340	0.00034	0.00034	2.72	5.44	8.16	10.88	13.6	16.32	19.04	21.76	24.48	27.2	29.92	32.64	35.36	38.08	40.8	43.52	46.24	48.96
350	0.00035	0.00035	2.8	5.6	8.4	11.2	14	16.8	19.6	22.4	25.2	28	30.8	33.6	36.4	39.2	42	44.8	47.6	50.4
360	0.00036	0.00036	2.88	5.76	8.64	11.52	14.4	17.28	20.16	23.04	25.92	28.8	31.68	34.56	37.44	40.32	43.2	46.08	48.96	51.84
370	0.00037	0.00037	2.96	5.92	8.88	11.84	14.8	17.76	20.72	23.68	26.64	29.6	32.56	35.52	38.48	41.44	44.4	47.36	50.32	53.28
380	0.00038	0.00038	3.04	6.08	9.12	12.16	15.2	18.24	21.28	24.32	27.36	30.4	33.44	36.48	39.52	42.56	45.6	48.64	51.68	54.72
390	0.00039	0.00039	3.12	6.24	9.36	12.48	15.6	18.72	21.84	24.96	28.08	31.2	34.32	37.44	40.56	43.68	46.8	49.92	53.04	56.16
400	0.0004	0.0004	3.2	6.4	9.6	12.8	16	19.2	22.4	25.6	28.8	32	35.2	38.4	41.6	44.8	48	51.2	54.4	57.6
410	0.00041	0.00041	3.28	6.56	9.84	13.12	16.4	19.68	22.96	26.24	29.52	32.8	36.08	39.36	42.64	45.92	49.2	52.48	55.76	59.04
420	0.00042	0.00042	3.36	6.72	10.08	13.44	16.8	20.16	23.52	26.88	30.24	33.6	36.96	40.32	43.68	47.04	50.4	53.76	57.12	60.48
430	0.00043	0.00043	3.44	6.88	10.32	13.76	17.2	20.64	24.08	27.52	30.96	34.4	37.84	41.28	44.72	48.16	51.6	55.04	58.48	61.92
440	0.00044	0.00044	3.52	7.04	10.56	14.08	17.6	21.12	24.64	28.16	31.68	35.2	38.72	42.24	45.76	49.28	52.8	56.32	59.84	63.36
450	0.00045	0.00045	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8
460	0.00046	0.00046	3.68	7.36	11.04	14.72	18.4	22.08	25.76	29.44	33.12	36.8	40.48	44.16	47.84	51.52	55.2	58.88	62.56	66.24
470	0.00047	0.00047	3.76	7.52	11.28	15.04	18.8	22.56	26.32	30.08	33.84	37.6	41.36	45.12	48.88	52.64	56.4	60.16	63.92	67.68
480	0.00048	0.00048	3.84	7.68	11.52	15.36	19.2	23.04	26.88	30.72	34.56	38.4	42.24	46.08	49.92	53.76	57.6	61.44	65.28	69.12
490	0.00049	0.00049	3.92	7.84	11.76	15.68	19.6	23.52	27.44	31.36	35.28	39.2	43.12	47.04	50.96	54.88	58.8	62.72	66.64	70.56
500	0.0005	0.0005	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72
510	0.00051	0.00051	4.08	8.16	12.24	16.32	20.4	24.48	28.56	32.64	36.72	40.8	44.88	48.96	53.04	57.12	61.2	65.28	69.36	73.44
520	0.00052	0.00052	4.16	8.32	12.48	16.64	20.8	24.96	29.12	33.28	37.44	41.6	45.76	49.92	54.08	58.24	62.4	66.56	70.72	74.88
530	0.00053	0.00053	4.24	8.48	12.72	16.96	21.2	25.44	29.68	33.92	38.16	42.4	46.64	50.88	55.12	59.36	63.6	67.84	72.08	76.32
540	0.00054	0.00054	4.32	8.64	12.96	17.28	21.6	25.92	30.24	34.56	38.88	43.2	47.52	51.84	56.16	60.48	64.8	69.12	73.44	77.76
550	0.00055	0.00055	4.4	8.8	13.2	17.6	22	26.4	30.8	35.2	39.6	44	48.4	52.8	57.2	61.6	66	70.4	74.8	79.2
560	0.00056	0.00056	4.48	8.96	13.44	17.92	22.4	26.88	31.36	35.84	40.32	44.8	49.28	53.76	58.24	62.72	67.2	71.68	76.16	80.64
570	0.00057	0.00057	4.56	9.12	13.68	18.24	22.8	27.36	31.92	36.48	41.04	45.6	50.16	54.72	59.28	63.84	68.4	72.96	77.52	82.08
580	0.00058	0.00058	4.64	9.28	13.92	18.56	23.2	27.84	32.48	37.12	41.76	46.4	51.04	55.68	60.32	64.96	69.6	74.24	78.88	83.52
590	0.00059	0.00059	4.72	9.44	14.16	18.88	23.6	28.32	33.04	37.76	42.48	47.2	51.92	56.64	61.36	66.08	70.8	75.52	80.24	84.96
600	0.0006	0.0006	4.8	9.6	14.4	19.2	24	28.8	33.6	38.4	43.2	48	52.8	57.6	62.4	67.2	72	76.8	81.6	86.4
610	0.00061	0.00061	4.88	9.76	14.64	19.52	24.4	29.28	34.16	39.04	43.92	48.8	53.68	58.56	63.44	68.32	73.2	78.08	82.96	87.84
620	0.00062	0.00062	4.96	9.92	14.88	19.84	24.8	29.76	34.72	39.68	44.64	49.6	54.56	59.52	64.48	69.44	74.4	79.36	84.32	89.28
630	0.00063	0.00063	5.04	10.08	15.12	20.16	25.2	30.24	35.28	40.32	45.36	50.4	55.44	60.48	65.52	70.56	75.6	80.64	85.68	90.72
640	0.00064	0.00064	5.12	10.24	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	66.56	71.68	76.8	81.92	87.04	92.16
650	0.00065	0.00065	5.2	10.4	15.6	20.8	26	31												

152	160	168	176	184	192	200	208	216	224	232	240	248	256		152	160	168	176	184	192	200	208	216	224	232	240	248	256
7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6	12	12.4	12.8		7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6	12	12.4	12.8
10.64	11.2	11.76	12.32	12.88	13.44	14	14.56	15.12	15.68	16.24	16.8	17.36	17.92		10.64	11.2	11.76	12.32	12.88	13.44	14	14.56	15.12	15.68	16.24	16.8	17.36	17.92
12.16	12.8	13.44	14.08	14.72	15.36	16	16.64	17.28	17.92	18.56	19.2	19.84	20.48		12.16	12.8	13.44	14.08	14.72	15.36	16	16.64	17.28	17.92	18.56	19.2	19.84	20.48
13.68	14.4	15.12	15.84	16.56	17.28	18	18.72	19.44	20.16	20.88	21.6	22.32	23.04		13.68	14.4	15.12	15.84	16.56	17.28	18	18.72	19.44	20.16	20.88	21.6	22.32	23.04
15.2	16	16.8	17.6	18.4	19.2	20	20.8	21.6	22.4	23.2	24	24.8	25.6		15.2	16	16.8	17.6	18.4	19.2	20	20.8	21.6	22.4	23.2	24	24.8	25.6
16.72	17.6	18.48	19.36	20.24	21.12	22	22.88	23.76	24.64	25.52	26.4	27.28	28.16		16.72	17.6	18.48	19.36	20.24	21.12	22	22.88	23.76	24.64	25.52	26.4	27.28	28.16
18.24	19.2	20.16	21.12	22.08	23.04	24	24.96	25.92	26.88	27.84	28.8	29.76	30.72		18.24	19.2	20.16	21.12	22.08	23.04	24	24.96	25.92	26.88	27.84	28.8	29.76	30.72
19.76	20.8	21.84	22.88	23.92	24.96	26	27.04	28.08	29.12	30.16	31.2	32.24	33.28		19.76	20.8	21.84	22.88	23.92	24.96	26	27.04	28.08	29.12	30.16	31.2	32.24	33.28
21.28	22.4	23.52	24.64	25.76	26.88	28	29.12	30.24	31.36	32.48	33.6	34.72	35.84		21.28	22.4	23.52	24.64	25.76	26.88	28	29.12	30.24	31.36	32.48	33.6	34.72	35.84
22.8	24	25.2	26.4	27.6	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4		22.8	24	25.2	26.4	27.6	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4
24.32	25.6	26.88	28.16	29.44	30.72	32	33.28	34.56	35.84	37.12	38.4	39.68	40.96		24.32	25.6	26.88	28.16	29.44	30.72	32	33.28	34.56	35.84	37.12	38.4	39.68	40.96
25.84	27.2	28.56	29.92	31.28	32.64	34	35.36	36.72	38.08	39.44	40.8	42.16	43.52		25.84	27.2	28.56	29.92	31.28	32.64	34	35.36	36.72	38.08	39.44	40.8	42.16	43.52
27.36	28.8	30.24	31.68	33.12	34.56	36	37.44	38.88	40.32	41.76	43.2	44.64	46.08		27.36	28.8	30.24	31.68	33.12	34.56	36	37.44	38.88	40.32	41.76	43.2	44.64	46.08
28.88	30.4	31.92	33.44	34.96	36.48	38	39.52	41.04	42.56	44.08	45.6	47.12	48.64		28.88	30.4	31.92	33.44	34.96	36.48	38	39.52	41.04	42.56	44.08	45.6	47.12	48.64
30.4	32	33.6	35.2	36.8	38.4	40	41.6	43.2	44.8	46.4	48	49.6	51.2		30.4	32	33.6	35.2	36.8	38.4	40	41.6	43.2	44.8	46.4	48	49.6	51.2
31.92	33.6	35.28	36.96	38.64	40.32	42	43.68	45.36	47.04	48.72	50.4	52.08	53.76		31.92	33.6	35.28	36.96	38.64	40.32	42	43.68	45.36	47.04	48.72	50.4	52.08	53.76
33.44	35.2	36.96	38.72	40.48	42.24	44	45.76	47.52	49.28	51.04	52.8	54.56	56.32		33.44	35.2	36.96	38.72	40.48	42.24	44	45.76	47.52	49.28	51.04	52.8	54.56	56.32
34.96	36.8	38.64	40.48	42.32	44.16	46	47.84	49.68	51.52	53.36	55.2	57.04	58.88		34.96	36.8	38.64	40.48	42.32	44.16	46	47.84	49.68	51.52	53.36	55.2	57.04	58.88
36.48	38.4	40.32	42.24	44.16	46.08	48	49.92	51.84	53.76	55.68	57.6	59.52	61.44		36.48	38.4	40.32	42.24	44.16	46.08	48	49.92	51.84	53.76	55.68	57.6	59.52	61.44
38	40	42	44	46	48	50	52	54	56	58	60	62	64		38	40	42	44	46	48	50	52	54	56	58	60	62	64
39.52	41.6	43.68	45.76	47.84	49.92	52	54.08	56.16	58.24	60.32	62.4	64.48	66.56		39.52	41.6	43.68	45.76	47.84	49.92	52	54.08	56.16	58.24	60.32	62.4	64.48	66.56
41.04	43.2	45.36	47.52	49.68	51.84	54	56.16	58.32	60.48	62.64	64.8	66.96	69.12		41.04	43.2	45.36	47.52	49.68	51.84	54	56.16	58.32	60.48	62.64	64.8	66.96	69.12
42.56	44.8	47.04	49.28	51.52	53.76	56	58.24	60.48	62.72	64.96	67.2	69.44	71.68		42.56	44.8	47.04	49.28	51.52	53.76	56	58.24	60.48	62.72	64.96	67.2	69.44	71.68
44.08	46.4	48.72	51.04	53.36	55.68	58	60.32	62.64	64.96	67.28	69.6	71.92	74.24		44.08	46.4	48.72	51.04	53.36	55.68	58	60.32	62.64	64.96	67.28	69.6	71.92	74.24
45.6	48	50.4	52.8	55.2	57.6	60	62.4	64.8	67.2	69.6	72	74.4	76.8		45.6	48	50.4	52.8	55.2	57.6	60	62.4	64.8	67.2	69.6	72	74.4	76.8
47.12	49.6	52.08	54.56	57.04	59.52	62	64.48	66.96	69.44	71.92	74.4	76.88	79.36		47.12	49.6	52.08	54.56	57.04	59.52	62	64.48	66.96	69.44	71.92	74.4	76.88	79.36
48.64	51.2	53.76	56.32	58.88	61.44	64	66.56	69.12	71.68	74.24	76.8	79.36	81.92		48.64	51.2	53.76	56.32	58.88	61.44	64	66.56	69.12	71.68	74.24	76.8	79.36	81.92
50.16	52.8	55.44	58.08	60.72	63.36	66	68.64	71.28	73.92	76.56	79.2	81.84	84.48		50.16	52.8	55.44	58.08	60.72	63.36	66	68.64	71.28	73.92	76.56	79.2	81.84	84.48
51.68	54.4	57.12	59.84	62.56	65.28	68	70.72	73.44	76.16	78.88	81.6	84.32	87.04		51.68	54.4	57.12	59.84	62.56	65.28	68	70.72	73.44	76.16	78.88	81.6	84.32	87.04
53.2	56	58.8	61.6	64.4	67.2	70	72.8	75.6	78.4	81.2	84	86.8	89.6		53.2	56	58.8	61.6	64.4	67.2	70	72.8	75.6	78.4	81.2	84	86.8	89.6
54.72	57.6	60.48	63.36	66.24	69.12	72	74.88	77.76	80.64	83.52	86.4	89.28	92.16		54.72	57.6	60.48	63.36	66.24	69.12	72	74.88	77.76	80.64	83.52	86.4	89.28	92.16
56.24	59.2	62.16	65.12	68.08	71.04	74	76.96	79.92	82.88	85.84	88.8	91.76	94.72		56.24	59.2	62.16	65.12	68.08	71.04	74	76.96	79.92	82.88	85.84	88.8	91.76	94.72
57.76	60.8	63.84	66.88	69.92	72.96	76	79.04	82.08	85.12	88.16	91.2	94.24	97.28		57.76	60.8	63.84	66.88	69.92	72.96	76	79.04	82.08	85.12	88.16	91.2	94.24	97.28
59.28	62.4	65.52	68.64	71.76	74.88	78	81.12	84.24	87.36	90.48	93.6	96.72	99.84		59.28	62.4	65.52	68.64	71.76	74.88	78	81.12	84.24	87.36	90.48	93.6	96.72	99.84
60.8	64	67.2	70.4	73.6	76.8	80	83.2	86.4	89.6	92.8	96	99.2	102.4		60.8	64	67.2	70.4	73.6	76.8	80	83.2	86.4	89.6	92.8	96	99.2	102.4
62.32	65.6	68.88	72.16	75.44	78.72	82	85.28	88.56	91.84	95.12	98.4	101.68	104.96		62.32	65.6	68.88	72.16	75.44	78.72	82	85.28	88.56	91.84	95.12	98.4	101.68	104.96
63.84	67.2	70.56	73.92	77.28	80.64	84	87.36	90.72	94.08	97.44	100.8	104.16	107.52		63.84	67.2	70.56	73.92	77.28	80.64	84	87.36	90.72	94.08	97.44	100.8	104.16	107.52
65.36	68.8	72.24	75.68	79.12	82.56	86	89.44	92.88	96.32	99.76	103.2	106.64	110.08		65.36	68.8	72.24	75.68	79.12	82.56	86	89.44	92.88	96.32	99.76	103.2	106.64	110.08
66.88	70.4	73.92	77.44	80.96	84.48	88	91.52	95.04	98.56	102.08	105.6	109.12	112.64		66.88	70.4	73.92	77.44	80.96	84.48	88	91.52	95.04	98.56	102.08	105.6	109.12	112.64
68.4	72	75.6	79.2	82.8	86.4	90	93.6	97.2	100.8	104.4	108	111.6	115.2		68.4	72	75.6	79.2	82.8	86.4	90	93.6	97.2	100.8	104.4	108	111.6	115.2
69.92	73.6	77.28	80.96	84.64	88.32	92	95.68	99.36	103.04	106.72	110.4	114.08	117.76		69.92	73.6	77.28	80.96	84.64	88.32	92	95.68	99.36	103.04	106.72	110.4	114.08	117.76
71.44	75.2	78.96	82.72	86.48	90.24	94	97.76	101.52	105.28	109.04	112.8	116.56	120.32		71.44	75.2	78.96	82.72	86.48	90.24	94	97.76	101.52	105.28	109.04	112.8	116.56	120.32
72.96	76.8	80.64	84.48	88.32	92.16	96	99.84	103.68	107.52	111.36	115.2	119.04	122.88		72.96	76.8	80.64	84.48	88.32	92.16	96	99.84	103.68	107.52	111.36	115.2	119.04	122.88
74.48	78.4	82.32	86.24	90.16	94.08	98	101.92	105.84	109.76	113.68	117.6	121.52	125.44		74.48	78.4	82.32	86.24										