



Noise spectrum measurement of the LED

General LED noise spectrum
2014/05/07

Measurement by : Toa Kurohane
Toa Kurohane

Kurohane Sound Technology lab.
URL:<http://kstlab.web.fc2.com/>

LED MODEL:OSDR3133A												LED COLOR:RED												Is=5.00[mA]												data is 32 points AVG (SUM)											
Frequency f[Hz]	Output noise											AVG Output noise Ena[dBv]																																			
	sample1 En1[dBv]	sample2 En2[dBv]	sample3 En3[dBv]	sample4 En4[dBv]	sample5 En5[dBv]	sample6 En6[dBv]	sample7 En7[dBv]	sample8 En8[dBv]	sample9 En9[dBv]	sample10 En10[dBv]	Output noise Ena[dBv]																																				
0	8.297393799	4.853966064	8.320556641	8.298613965	8.30387207	8.325805664	8.290740967	8.30770874	8.307922363	8.285720825	8.308851624																																				
2.499999994	4.853966064	4.903007507	4.771128601	4.859436949	4.865943909	4.882423401	4.847305298	4.864311218	4.864616394	4.842292786	4.865446472																																				
4.999999987	-6.226722717	-6.178031921	-6.203529358	-6.226837158	-6.214920044	-6.197769165	-6.233474731	-6.216110229	-6.215244402	-6.238571167	-6.215129089																																				
7.499999981	-28.39750671	-28.35667419	-28.37538147	-28.39846039	-28.38979887	-28.36271667	-28.40912628	-28.38349152	-28.3808136	-28.4115395	-28.3869492																																				
9.999999975	-74.24229657	-74.26095581	-73.33531189	-75.45638181	-75.05347061	-75.08777237	-74.58864212	-75.86579514	-75.74703217	-75.20317459	-74.78210831																																				
12.49999997	-74.04282819	-74.00711823	-73.35420609	-74.64147949	-73.73053741	-75.72799837	-75.75111771	-75.80263138	-75.10815048	-74.97684097	-74.71349068																																				
14.99999996	-74.61800766	-73.73464049	-74.81811523	-75.17644882	-73.43266678	-75.83427811	-76.10338593	-75.37985611	-75.48410797	-74.50720596	-74.90977135																																				
17.49999996	-75.34444046	-73.26428223	-75.72019196	-75.39734665	-74.3646965	-74.96935654	-75.07152176	-75.42469025	-76.03699875	-73.96727003	-74.9561245																																				
19.99999995	-75.05257034	-73.58566284	-75.49175262	-74.89676666	-74.54213333	-74.21425247	-75.29387283	-75.47930908	-76.93038559	-73.282547	-74.87692528																																				
22.49999994	-73.92321014	-74.60475922	-75.911129	-74.54887772	-73.92323077	-74.19876862	-75.64004517	-75.1764946	-75.80875778	-73.91169739	-74.76470604																																				
24.99999994	-74.50569153	-75.04627228	-76.20795822	-74.32466507	-74.1901741	-75.2403183	-74.5912323	-74.9691925	-75.35137177	-74.16757584	-74.85944519																																				
27.49999993	-75.39913559	-75.50802231	-75.02189492	-74.67550659	-75.24818802	-76.4023056	-74.60550308	-75.12449646	-74.90150452	-74.1159677	-75.10021439																																				
29.99999992	-74.67570877	-75.0369873	-74.43215942	-74.63231659	-75.62770462	-76.88510513	-74.19803619	-74.94662476	-74.98880386	-75.35638046	-75.07798271																																				
32.49999992	-74.615448	-74.36904144	-74.45588684	-75.56703568	-75.11715317	-75.40558624	-73.70106506	-74.82811356	-74.80106735	-75.96479034	-74.88251877																																				
34.99999991	-75.9443512	-73.77463913	-74.9364357	-75.27025223	-74.88563538	-74.75990677	-73.44490051	-76.3849144	-74.45426941	-75.76361847	-74.96190071																																				
37.49999991	-76.33208466	-73.88879013	-75.46158218	-74.98336411	-75.22089386	-75.46931839	-73.39783859	-76.26380539	-74.12333679	-75.17980194	-75.03208161																																				
39.9999999	-76.39591599	-74.6449582	-74.80480194	-76.62662888	-76.19286728	-75.250103	-73.0323193	-75.0011673	-74.70482635	-73.56302643	-75.02181549																																				
42.49999989	-75.64333669	-76.45590591	-74.02298355	-76.35361099	-75.90296173	-74.89513397	-73.16631317	-74.8814888	-75.01586151	-72.98718643	-74.92457848																																				
44.99999989	-73.83288193	-76.62449646	-74.26475143	-74.58312988	-74.84585571	-74.62965012	-74.07445908	-74.68073654	-74.60074997	-73.67213821	-74.58088493																																				
47.49999988	-74.19232559	-75.61265564	-75.3432312	-74.14282680	-74.56974792	-74.50851822	-74.73151016	-75.270504	-74.00016403	-74.45108414	-74.6825677																																				
49.99999987	-75.40401777	-75.05638986	-75.1219635	-74.55498805	-75.22709274	-74.24373831	-75.80387878	-75.47943497	-75.27390671	-74.65658951	-75.1471035																																				
52.49999987	-75.41191766	-76.20600891	-74.49988174	-75.06984329	-75.20335388	-75.21724701	-76.6380185	-75.08041382	-75.29299953	-74.29708909	-75.29186287																																				
54.99999986	-76.33045197	-75.64120865	-74.90652847	-74.58199391	-74.5100708	-74.7055397	-73.1023672	-74.3178215	-75.75259449	-73.97275296	-75.02473984																																				
57.49999985	-75.95609665	-74.63521194	-75.78646851	-74.6587944	-74.20330429	-74.40655899	-74.74106216	-74.87674713	-75.34092331	-74.30037689	-74.90554443																																				
59.99999985	-74.9423426	-74.44869614	-75.63840213	-75.56991959	-74.78560638	-74.31441116	-74.54869843	-74.7617226028	-74.67302704	-74.64204265	-74.97338562																																				
62.49999984	-74.70645905	-75.00754166	-76.3335762	-75.64578247	-74.60726547	-74.29600906	-75.34046173	-75.68593216	-75.48429108	-75.08155823	-75.21888771																																				
64.99999984	-75.1176796	-74.90309143	-76.8087883	-75.02007294	-73.88026428	-74.82004547	-75.45780182	-75.35668564	-76.84644699	-75.36753082	-75.37584073																																				
67.49999983	-75.1704216	-74.189991	-74.74850082	-75.19395447	-74.24376505	-74.79771805	-75.38353348	-75.66324997	-75.81881714	-75.79325867	-75.10030212																																				
69.99999982	-75.38479614	-74.20137787	-74.83123398	-75.21179962	-74.57876968	-74.11035538	-74.71066284	-75.81237793	-74.95445251	-76.24505997	-75.00408859																																				
72.49999982	-74.6366806	-74.18676376	-74.62212753	-74.54593658	-73.4688797	-74.30103683	-73.54112244	-73.92189026	-74.81118774	-75.45088691	-74.3485710																																				
74.99999981	-74.22457123	-74.0965004	-75.02253723	-75.00434113	-73.39360046	-74.95689629	-74.39748764	-73.58356857	-74.97886658	-74.7149353	-74.43732948																																				
77.4999998	-74.38834	-75.0218696	-74.88312531	-74.94303513	-73.98909378	-75.09770584	-75.18703709	-74.1717987	-75.34003448	-74.84312439	-74.78105392																																				
79.9999998	-74.25366211	-74.95460129	-73.71404266	-74.78102225	-74.97487256	-74.9038887	-75.48925354	-73.87589895	-75.25104523	-75.40961437	-74.67893295																																				
82.49999979	-74.19468307	-74.15741713	-73.60743332	-75.14717865	-75.01907335	-74.66128922	-75.65803413	-74.22493362	-75.35687691	-75.12125397	-74.76328049																																				
84.99999979	-74.63783646	-75.05668259	-74.75775146	-75.97842789	-77.27965164	-74.79512787	-74.70964813	-74.90554428	-74.87071594	-74.99264908	-75.28940365																																				
87.49999978	-74.75925911	-75.46693039	-75.38751602	-75.8160553	-77.77302933	-74.66180801	-73.99777603	-74.92173004	-75.46984863	-73.99497403	-75.24147491																																				
89.99999977	-74.45582951	-74.6192267	-74.97725296	-74.81496429	-76.59601974	-74.92944003	-74.21991348	-75.25126266	-74.21499137	-74.84744919	-74.88245583																																				
92.49999977	-75.01926422	-74.07712936	-74.94694901	-74.38215637	-76.57558441	-74.63540268	-74.46799469	-75.58161926	-75.86716843	-74.01876068	-74.95720291																																				
94.99999976	-76.04813385	-74.49271115	-75.70653534	-74.59635925	-76.17137527	-73.42848206	-74.6477356	-75.00627136	-74.8928299	-74.36226273	-74.93527565																																				
97.49999975	-75.99837875	-74.82112122	-75.69542313	-74.56796946	-76.01939011	-73.74888216	-74.68044281	-74.44391251	-74.85596085	-75.48242569	-74.9655674																																				
99.99999975	-75.87563705	-74.86392975	-75.54444122	-74.1915588	-75.91518021	-74.1437149	-74.52043533	-74.74911118	-75.14559555	-74.76996994	-74.9647171																																				
102.4999997	-75.23825455	-74.859195	-76.01976776	-74.01890564	-75.50405121	-73.99040222	-75.16675568	-74.58614731	-75.20229721	-73.84741211	-74.811635132																																				
104.9999997	-74.81469345	-74.66106415	-75.68871307	-74.61790466	-74.89822006	-73.90119563	-75.79280853	-73.64094925	-74.86096573	-73.68909767	-74.65754242																																				
107.4999997	-75.28675461	-73.87782669	-75.09314728	-74.35150909	-74.80130768	-74.67386246	-74.19152832	-73.46396255	-74.4516449	-75.10269165	-74.52942352																																				
109.9999997	-75.68022537	-73.8936348	-75.37441635	-73.40403748	-75.28125763	-74.93266678	-74.07984161	-73.79360962	-73.87843323	-75.64128113	-74.5959404																																				
112.4999997	-74.88225937	-74.20477295	-75.51544952	-73.88370316	-74.82761912	-75.66392899	-75.61598206	-73.80765152	-73.9380722	-75.16980473	-74.4642374																																				
114.9999997	-74.12764359	-74.11913257	-74.42469025	-73.96116257	-74.05479813	-73.7379296	-75.04669952	-74.08766937	-75.00652399	-74.25912857	-74.91537079																																				
117.4999997	-75.12096405	-74.50535583	-73.7155838	-74.56878662	-74.45808029	-75.85747528	-73.85064697	-73.9875679	-75.84982681	-75.47299805	-74.64872856																																				
119.9999997	-76.02544022	-74.55294635	-73.7852359	-75.67023087	-75.61207199	-76.11948395	-74.58758545	-74.02954865	-75.75701523	-75.1774025	-75.12999611																																				
122.4999997	-76.6317215	-74.49383545	-74.11539459	-75.10053635	-74.84830856	-75.65887833	-76.39914703	-75.02965164	-74.84155273	-75.62741089	-75.27464371																																				
124.9999997	-76.04302216	-74.97104263	-74.052485	-74.47107315	-74.45867157	-74.61078262	-76.44078064	-75.22604752	-74.75267792	-75.91427994	-75.09412231																																				
127.4999997	-74.67199326	-76.7929404	-73.92304993	-75.44690704	-73.91394424	-74.38683319	-74.72520447	-74.85884476	-75.34673691	-74.95182037	-74.78982582																																				
129.9999997	-74.52745819	-76.20041656	-74.52674103	-75.56070709	-73.24400711	-74.5531311	-74.29936681	-74.67138672	-75.48334885	-74.48048401	-74.75470505																																				
132.4999997	-74.54708862	-76.86240768	-74.84053802	-74.88592024	-73.68186569	-75.37274933	-75.20610809	-75.17224884	-75.74587631	-74.55339813	-75.08681831																																				
134.9999997	-74.86094244	-75.14553339	-74.40313339	-75.29732513	-74.2930115	-75.40158081	-74.33134079	-74.80455017	-76.09112549	-75.05879563	-74.97026291																																				
137.4999997	-75.32216684	-74.00520325	-74.43161011	-74.91850281	-74.50180817	-75.13593292	-74.11251068	-74.66570816	-72.2315216	-74.6275348	-74.81373482																																				
139.9999996	-75.444561	-74.2423627	-74.9897995	-74.63512421	-74.28987885	-75.26358032	-75.03199387	-74.75980759	-76.11597061	-75.06966019	-74.98427124																																				
142.4999996	-76.10169601	-73.95052717	-74.3621254	-74.4673233	-73.95267868	-75.27919769	-74.91531372	-75.66563416	-75.38992691	-75.20958602	-74.92399911																																				
144.9999996	-77.00096512	-74.0714035	-75.06647873	-74.13972855	-74.15350342	-74.98278809	-74.24951172	-75.10688674	-75.5009346	-75.23442841	-74.95061049																																				
147.4999996	-75.69903183	-75.78685379	-75.40857697	-73.93520355	-73.96389771	-75.09485842	-74.34013148	-74.12410736	-75.71956635	-76.67331696	-74.97452774																																				
149.9999996	-75.33321116	-77.46535873	-74.24502945	-74.56874466	-74.96397705	-75.64887238	-75.05630172	-74.0474097	-75.64663696	-76.00976563	-75.22791481																																				
152.4999996	-75.84973907	-76.8337326	-74.87253952	-76.2088089	-75.28502274	-75.64007568	-76.3866																																								

252.999994	-74.80241776	-74.99001312	-74.6319809	-75.04608536	-73.51503754	-75.18898773	-75.5127327	-74.12416458	-74.57594681	-75.34334183	-74.77307129
254.999994	-74.70444763	-74.47650909	-75.56753922	-75.57796478	-73.7727623	-75.26224518	-74.25084686	-73.98714066	-74.18405533	-76.30597687	-74.74594879
257.999993	-73.6885215	-75.42075729	-77.07226181	-75.16205215	-74.45857239	-75.12964645	-74.04551697	-73.94674301	-74.2206955	-76.66785431	-74.91826852
259.999993	-74.19097519	-75.06504822	-77.08703613	-74.72716904	-75.62181854	-75.64938736	-74.43522644	-74.42139816	-75.98841476	-74.72083664	-75.19073105
262.999993	-74.25112915	-74.43025589	-75.13900757	-75.62224197	-76.08557129	-75.45399094	-75.32766342	-74.97756958	-76.3682785	-74.90203094	-75.25577393
264.999993	-74.15942001	-74.1930969	-73.95270538	-76.18389899	-74.9321814	-74.90427294	-75.69803619	-75.5518074	-76.62394333	-74.81055069	-74.99182167
267.999993	-74.50731659	-75.07733536	-73.93922424	-75.21161652	-75.01723862	-75.07449722	-75.3266113	-74.95447922	-75.62897873	-74.63938141	-74.9402729
269.999993	-75.26511598	-74.9343338	-74.33451843	-75.10742188	-76.29585182	-75.38851929	-74.64723969	-74.74077606	-75.58848953	-74.97050844	-75.12720909
272.999993	-75.16027451	-74.82525253	-74.53252792	-75.44054794	-75.20545578	-75.18981934	-74.37688065	-74.76176834	-75.38052368	-75.09476089	-74.99678116
274.999993	-75.2008667	-76.11798477	-75.21393585	-74.99714661	-74.0081836	-74.55643845	-75.011713181	-74.35071945	-75.72846222	-74.31409836	-74.95141678
277.999993	-75.3868017	-74.79323196	-75.44922638	-75.25322342	-74.17738342	-74.54569626	-75.28972626	-74.76974106	-76.15984726	-73.82532863	-74.96494865
279.999993	-74.79056931	-73.75736237	-76.06095123	-74.90921783	-74.29691696	-75.82226563	-74.95366669	-75.31391525	-75.69316864	-74.31753922	-74.99155731
282.999993	-74.64769363	-73.89406967	-75.89756393	-74.72441864	-74.30784988	-74.49291229	-75.57045364	-75.52317429	-73.72829056	-74.71406555	-74.75004921
284.999993	-75.58588409	-74.4368782	-74.36706161	-75.34936905	-74.31117249	-75.5225296	-75.5600853	-75.1169281	-73.66145325	-75.195858	-74.71072197
287.999993	-76.36608124	-74.87865829	-74.46775818	-75.94040298	-74.47237396	-73.99404144	-74.3360939	-74.44289878	-73.8392601	-74.80973053	-74.75472984
289.999993	-76.93632126	-74.24934769	-74.79714584	-75.86107635	-75.20428085	-74.19334793	-74.12994385	-75.20948792	-73.96283722	-74.22123718	-74.87650261
292.999993	-76.53030396	-74.08697128	-74.18199539	-75.94315338	-75.98233795	-73.79933167	-74.43091583	-75.68352127	-74.04654312	-73.98181534	-74.86668892
294.999993	-74.66313553	-73.93842225	-74.40896225	-75.56992324	-75.63963318	-74.18524933	-74.82011828	-75.29570389	-73.40517807	-73.97436905	-74.58951797
297.999993	-73.75143051	-74.23704529	-74.41950989	-74.75675583	-75.41505814	-73.6368866	-74.57929611	-75.20027542	-73.42715836	-73.39558792	-74.28190041
299.999993	-74.21340942	-74.6837304	-74.45796204	-74.91985321	-75.5333252	-73.10763168	-74.93798828	-75.33441925	-74.34094238	-74.14291382	-74.56722183
302.999993	-75.36605467	-74.92259979	-74.26877123	-75.61925507	-76.43253708	-74.91988629	-74.63607188	-75.87299347	-75.5954895	-74.67140198	-75.15349998
304.999993	-75.8206572	-75.21109813	-74.10890198	-75.26165009	-75.24244308	-75.76016617	-74.26890872	-74.9719429	-75.92868521	-74.45304489	-75.09884145
307.999993	-73.82595825	-75.08123016	-74.17899323	-75.22396469	-74.71667862	-75.20869827	-74.44719696	-74.9442482	-76.21892548	-74.27509308	-74.81209869
309.999993	-73.02811432	-75.2930336	-74.44299698	-75.46619797	-74.17768814	-74.17250443	-74.61743927	-74.97607803	-75.91542816	-75.2260544	-74.63220863
312.999993	-73.74410248	-75.27042389	-75.76301575	-75.03471756	-73.71333694	-74.08415222	-74.79820251	-74.6378746	-74.56740714	-74.55743027	-74.64666634
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644.9999984	-74.93976212	-74.98942947	-74.14774704	-73.89629364	-74.87829218	-74.78564453	-75.70748901	-73.9787674	-75.63833133	-74.62504668	-74.65048332
647.4999984	-75.33166122	-74.47005081	-74.34663773	-73.70145798	-74.57064819	-74.63304901	-75.18032455	-74.17702484	-74.21346283	-76.1638031	-74.67881203
649.9999984	-75.09918594	-74.7076149	-74.51168442	-74.36252975	-74.52758408	-74.89407349	-74.55463409	-75.42272568	-73.91470718	-76.41048813	-74.84052277
652.4999984	-75.1200525	-74.64571762	-74.97189331	-75.16931534	-74.88648987	-74.92313385	-73.88534164	-75.19828033	-74.6638031	-74.44970519	-74.7624855
654.9999983	-75.70835114	-74.43906784	-75.76498413	-75.1974144	-74.81941605	-74.62847519	-74.18266514	-75.1042099	-74.81178284	-73.98807532	-74.85553761
657.4999983	-75.58218765	-74.5370636	-75.52666092	-74.36543274	-74.00730133	-74.35722733	-74.65536499	-74.98099136	-75.32568741	-73.70474625	-74.70426464
659.9999983	-75.65887005	-75.41374969	-74.71662903	-73.8188591	-74.07644653	-74.43355179	-74.53702164	-75.49303436	-75.86587143	-73.94159317	-74.79536438
662.4999983	-74.88724899	-75.5284383	-74.87594604	-74.11253738	-74.03051758	-74.79837418	-73.98269272	-75.27635956	-76.08809933	-75.27351632	-74.76881026
664.9999983	-75.2928009	-75.1845932	-75.45185471	-74.09214401	-73.35952759	-74.53569031	-73.30853653	-74.05591202	-75.01165771	-74.09664154	-74.43893585
667.4999983	-75.9963672	-75.43757248	-76.4339447	-74.09192657	-74.23777771	-74.91160583	-73.96218109	-74.07842636	-74.61021423	-74.11562347	-74.77756386
669.9999983	-75.1726799	-74.67666626	-76.96279526	-74.30220413	-75.64577866	-75.63544083	-74.8519516	-74.49060059	-74.47156906	-73.95401001	-75.01636963
672.4999983	-75.69327545	-74.04675293	-75.847								

747.4999661	-74.37773132	-74.83246994	-75.14139175	-74.7183876	-74.97198868	-73.98887253	-74.47134781	-73.72344589	-76.76318741	-75.68177414	-74.86705971
749.9999981	-75.44398117	-74.72800064	-75.31724167	-75.38299179	-74.14943695	-74.6931076	-74.72574615	-74.38971329	-75.92334418	-74.80736923	-74.95669327
752.4999961	-75.8998827	-74.40647507	-74.92769241	-75.32906723	-74.28520097	-75.3819809	-75.5928421	-74.71863937	-75.74159241	-75.46854910	-75.15953369
754.9999981	-76.52946091	-75.10639191	-74.31394958	-75.02467728	-75.19792557	-76.4067688	-76.90898132	-74.6265831	-75.63345718	-76.03698349	-75.57851791
757.4999661	-76.41775585	-75.59543991	-74.57451248	-75.03272629	-74.28748703	-76.2707901	-77.29942322	-75.15655899	-74.5603447	-75.39826202	-75.45903206
759.9999981	-75.70796024	-76.26749802	-74.9597435	-74.42245483	-73.63874054	-75.54951477	-77.084198	-76.1456871	-74.28054428	-74.86975098	-75.30899923
762.4999661	-75.61587966	-75.53415298	-75.26519775	-75.41301575	-74.5448494	-75.61626434	-75.93526884	-75.84767532	-75.18751144	-75.0808754	-75.31066389
764.9999981	-75.98924637	-75.25525787	-75.23024368	-75.26140976	-75.41119385	-75.96039963	-75.38964844	-74.81351852	-74.95108032	-75.58736504	-75.38199353
767.4999661	-75.13010025	-75.4557457	-74.41999817	-75.36507445	-75.34879303	-74.69320679	-75.32431793	-74.15203094	-74.50845337	-75.73616791	-75.01338615
769.9999981	-74.31641388	-75.30264664	-74.44306564	-75.0041008	-75.38017654	-74.26286316	-75.203228	-74.0587816	-74.35103989	-75.14282227	-74.74651184
772.499966	-74.42919159	-75.2410202	-74.72599411	-75.07370205	-75.6932106	-74.32157135	-75.48784637	-74.58227158	-74.10964203	-74.21489334	-74.82787132
774.999998	-74.47492218	-74.5694247	-75.54103851	-75.30337524	-74.92354584	-73.50146866	-75.52230453	-74.35052109	-73.77824402	-73.9013176	-74.58661652
777.499966	-74.31908035	-74.08586121	-76.25271606	-75.5814476	-74.53128052	-72.93845367	-75.4294548	-73.4470787	-73.69678497	-74.60968018	-74.48918381
779.999998	-73.73598051	-74.33275223	-74.79299927	-75.70406474	-75.01667023	-72.58865356	-75.30588531	-73.11157227	-73.85890961	-75.58352228	-74.40312805
782.499966	-74.90210342	-75.24048615	-74.82449722	-75.23604584	-75.33109283	-72.93397141	-75.02612686	-73.24269104	-74.09050751	-74.56480026	-74.53923225
784.999998	-76.59000397	-75.59866333	-76.11599731	-75.3754921	-75.69701767	-74.09797836	-75.09640503	-73.79758835	-74.25912476	-74.28507996	-75.09033508
787.499966	-76.56560516	-74.87112427	-76.07088089	-75.84066772	-74.93785477	-75.12503052	-75.91451645	-74.55038071	-74.99495316	-74.42417145	-75.32951851
789.999998	-75.1059056	-74.88628269	-74.46018982	-75.50235748	-74.52257156	-74.49260712	-75.83530807	-74.35251236	-75.41825485	-74.79938658	-74.97391281
792.499966	-75.53080368	-75.14153671	-73.80917358	-74.64661407	-74.71403122	-73.3805801	-75.32625228	-74.37019348	-75.44101715	-75.64025978	-74.8000412
794.999998	-75.90047073	-75.06307983	-73.58725739	-74.91759491	-74.28593063	-73.61478806	-75.14373016	-75.65293884	-74.66972351	-75.65151979	-74.84870338
797.499966	-74.71726608	-74.24303818	-73.44364166	-75.27301407	-74.52208328	-74.53482437	-75.97771454	-77.88310055	-74.1109848	-75.1680603	-74.88737373
799.999998	-74.99382019	-73.098629	-74.65652847	-75.24106598	-73.58210373	-75.1130753	-75.80658722	-75.94319153	-74.12755585	-75.14614868	-74.68069382
802.499966	-76.77438354	-73.42157745	-75.40226746	-75.25193405	-73.50020218	-73.50646591	-74.78329849	-74.45089722	-74.398983	-75.08012772	-74.6570137
804.999998	-75.58471601	-73.96175003	-73.91661072	-74.5513931	-74.28301239	-73.72528839	-74.05271149	-74.73911667	-74.47097015	-76.05918503	-74.5338061
807.499966	-74.67358187	-74.26118088	-73.00481415	-73.85210037	-74.53866196	-74.37410736	-73.62797928	-75.49690628	-74.30717087	-75.99160385	-74.1281052
809.999998	-74.6384964	-75.06654358	-73.63741302	-74.16281128	-74.47841644	-74.85915756	-74.44247055	-75.48028564	-74.28561401	-75.35580774	-74.64070892
812.499966	-74.15706635	-74.48219681	-74.48711777	-73.99122328	-75.17796707	-75.11571503	-75.50461578	-75.88368607	-74.06631088	-74.44388962	-74.73097878
814.999998	-73.67552185	-73.81810776	-74.3365907	-74.47931671	-75.6450119	-74.80837631	-74.91175461	-76.43585587	-74.27809143	-74.01398079	-74.64024544
817.499966	-74.35958111	-74.80309296	-74.22844696	-74.73423767	-75.29347992	-73.9447937	-75.24274826	-76.90740204	-74.57198175	-74.36075534	-74.84545021
819.999998	-75.10139084	-75.64007187	-75.03484726	-75.17003632	-74.45860291	-73.88290787	-75.82255554	-76.17939758	-74.7096024	-74.68904114	-75.08498116
822.499966	-75.57654959	-75.22319412	-74.56634689	-76.11605453	-74.3899765	-74.18296432	-74.96088409	-74.94704437	-75.3894928	-74.1627655	-74.94997292
824.999998	-76.05447006	-75.57538605	-73.98231888	-76.13010788	-74.62850952	-74.86631302	-74.34503937	-74.44176483	-75.8113327	-74.17107773	-74.896632
827.499966	-76.67840576	-73.91356659	-73.73801041	-76.39295959	-74.24275208	-74.7540741	-74.08504105	-74.84648132	-74.77762604	-74.60246658	-74.80313835
829.999998	-76.73423767	-73.7982758	-74.31018829	-75.82910538	-74.64222722	-73.48879242	-74.24871826	-74.59999084	-74.16466095	-73.83582608	-74.5655567
832.499966	-76.89983286	-74.21019745	-74.34778976	-75.32440567	-75.13827515	-72.99204636	-75.38851166	-74.34818268	-74.17627716	-73.38731003	-74.62129288
834.999998	-75.67794418	-75.11070251	-74.89753723	-75.51993942	-74.40364456	-74.33760834	-76.05784988	-75.1893158	-74.1424561	-74.29573282	-74.99045258
837.499966	-75.10739517	-75.20569229	-75.89028168	-75.03387451	-74.47431183	-74.86632416	-75.34706553	-75.93803024	-74.64175797	-75.76401901	-75.34827804
839.999998	-75.93206406	-74.97395706	-74.24779129	-74.64518356	-74.59851074	-76.09533691	-74.90149307	-75.81559372	-74.34831619	-76.44521332	-75.20034599
842.499966	-76.07176059	-75.3193779	-74.29141998	-74.59727859	-74.55794525	-73.1385994	-74.9080162	-74.54944611	-76.10077326	-75.0292438	-75.0202438
844.999998	-75.83832169	-75.86662752	-75.01552963	-75.16280365	-75.16803741	-74.36767578	-75.59901428	-74.39511479	-74.49456506	-75.66950607	-75.1578331
847.499966	-75.63378143	-75.10447693	-75.57109451	-75.10082245	-75.96372604	-73.0797913	-75.15567717	-74.02987671	-74.9274717	-75.32826202	-75.18459206
849.999998	-75.0098877	-74.67673492	-76.07010269	-74.2700386	-75.33942413	-75.05163956	-75.01246643	-74.44266891	-75.96427155	-74.54579926	-75.03830338
852.499966	-74.13937759	-75.07792741	-75.45424652	-74.31018829	-74.85430145	-74.91851044	-75.04720688	-74.91478729	-75.61260376	-74.29130554	-74.90205054
854.999998	-74.52629089	-75.01322556	-74.81276703	-74.76464462	-74.57194138	-74.99553299	-74.63037109	-74.80698395	-75.82603378	-74.52301407	-74.82708062
857.499966	-74.57289356	-73.18749237	-74.16615677	-74.21560287	-74.43870926	-74.9290123	-74.64430618	-74.67260742	-75.581131	-74.93375397	-74.64968496
859.999998	-74.66592407	-73.1303104	-74.04300308	-74.67343413	-73.86127853	-75.12243652	-74.92170715	-74.59009933	-74.6581955	-75.39490981	-74.50620155
862.499966	-75.31714663	-73.39580917	-74.61178589	-75.48841858	-74.2988472	-74.56515503	-74.87193688	-74.50634003	-74.01702881	-75.78117317	-74.68536415
864.999998	-75.83466339	-74.32470703	-75.40485001	-74.96844864	-75.00035095	-74.68651199	-73.79165649	-74.50118637	-75.04628372	-76.01839066	-74.95770493
867.499966	-75.43920898	-75.54881826	-75.98701859	-74.96111679	-74.76966476	-75.70291901	-73.45792007	-74.8397522	-74.98724365	-74.58280182	-75.02758331
869.999998	-74.25348663	-75.51944733	-75.00343704	-75.42089844	-74.05236817	-75.85948944	-73.74157333	-74.70603561	-73.03792191	-73.76091707	-74.6356529
872.499966	-72.97370911	-73.56261444	-72.99108124	-73.98868179	-72.7598678	-74.32171631	-72.86290239	-73.85291672	-73.50902557	-73.9577484	-73.42381172
874.999998	-72.90837097	-72.82121658	-73.31141663	-73.54521066	-73.56507111	-73.11270142	-73.01557159	-74.07727814	-73.79586699	-72.56776047	-73.27294846
877.499966	-74.46775436	-75.06406021	-74.92940521	-74.5554657	-75.80611142	-73.86599323	-74.60364532	-74.80226135	-73.66675186	-73.33537292	-74.51704216
879.999998	-74.59008026	-75.74106979	-75.08283615	-74.64150662	-75.09379578	-75.03907776	-75.30355453	-74.25095749	-73.31068039	-74.1153717	-74.71689301
882.499966	-74.84290314	-73.91786194	-75.43088913	-75.26853562	-74.64726257	-74.84305954	-75.7850647	-74.73540115	-74.33594513	-73.93377304	-74.7740696
884.999998	-75.35761261	-75.52153397	-75.521016617	-74.08296478	-74.54223633	-75.22071075	-75.53879547	-75.05001007	-74.66261292	-74.85068283	-75.02708062
887.499966	-75.50873947	-73.41698074	-75.38195038	-75.4372139	-73.83311081	-74.26350021	-75.31238937	-75.24703979	-74.58082581	-74.86041641	-74.78421669
889.999998	-74.81604385	-73.6750946	-74.9602356	-76.1700592	-74.45505142	-74.69595422	-76.02256775	-74.62392044	-75.34055301	-73.84058328	-74.75920639
892.499966	-74.20531424	-74.35004426	-75.43689728	-75.92596478	-75.56985092	-75.58163599	-76.3001442	-74.95536804	-75.5263872	-73.76285553	-75.1440731
894.999998	-74.86225168	-75.42096189	-76.42168427	-75.8743248	-75.76468277	-74.64994812	-75.38279724	-75.15761185	-75.86911774	-75.7369537	-75.7851753
897.499966	-74.98188782	-76.96870422	-76.52640915	-76.10444641	-75.15449905	-75.77894592	-74.6020546	-75.21509933	-76.11837387	-75.4077206	-75.68581924
899.999998	-74.90320587	-75.8595047	-76.11485291	-76.15372467	-74.0962421	-76.86288071	-74.79447556	-74.54954147	-76.36796951	-74.56822968	-75.42708092
902.499966	-74.62117004	-75.25154877	-75.65877151	-75.67531204	-74.5235672	-75.71907486	-75.78279114	-73.90832901	-76.09489878	-74.66502958	-75.27606239
904.999998	-74.48476791	-75.16468048	-75.27876282	-74.57619476	-75.05870056	-76.22599411	-74.93039322	-74.03316498	-75.34		

Frequency f[Hz]	LED MODEL:OS5RKA3131A LED COLOR:RED Is=5.00[mA] data is 32 points AVG (SUM)										AVG Output noise Ena[dBV]
	sample1 En1[dBV]	sample2 En2[dBV]	sample3 En3[dBV]	sample4 En4[dBV]	sample5 En5[dBV]	sample6 En6[dBV]	sample7 En7[dBV]	sample8 En8[dBV]	sample9 En9[dBV]	sample10 En10[dBV]	
0	7.922439575	7.900993347	8.104553223	7.909072876	8.066711426	7.903434753	8.077896118	8.093917847	7.885246277	-24.58715057	4.727711487
2.49999994	4.479064941	4.457649231	4.661109924	4.465667725	4.623298645	4.460144043	4.634475708	4.65057373	4.441719055	-28.02318573	1.285051727
4.99999998	-6.601295471	-6.622428894	-6.419685366	-6.61492157	-6.457330426	-6.61959212	-6.44606781	-6.429771423	-6.635911108	-39.04244995	-9.789302063
7.49999998	-28.77205658	-28.72688049	-28.59241484	-28.78845978	-28.67038634	-28.80773175	-28.61434174	-28.60010529	-28.81638173	-70.17109299	-31.85524635
9.99999997	-74.17404938	-75.57594681	-74.20969009	-75.11069107	-75.88690567	-74.67255402	-73.46500015	-74.79138565	-73.9920311	-76.63790131	-74.85161552
12.49999997	-73.85496902	-75.95839691	-74.44240952	-74.70622635	-76.25291061	-74.63018036	-73.74466705	-74.68643951	-74.49925995	-78.32460403	-75.16000633
14.99999996	-74.17640305	-75.52133882	-74.56816483	-75.3438797	-75.65780258	-74.29482269	-73.55229187	-74.70286179	-75.42380524	-79.09114456	-75.23433151
17.49999996	-74.88282776	-75.29995728	-74.85162735	-75.68709946	-74.35444641	-75.08169937	-73.89167786	-75.14777756	-74.48715591	-79.08283615	-75.27671051
19.99999995	-74.44613647	-75.93126297	-75.45309448	-75.74318695	-74.44744492	-76.25667953	-74.65990851	-75.17959976	-72.86647415	-80.09518051	-75.50781403
22.49999994	-74.03562927	-76.27533722	-75.6953125	-75.17052841	-75.79078293	-74.60486603	-75.647892	-73.82996368	-73.65948486	-80.46643066	-75.51762276
24.99999994	-74.44776917	-75.38923645	-75.59946206	-74.84805298	-75.15300751	-74.12256241	-75.72052383	-74.03076935	-75.68134308	-80.58443069	-75.55771561
27.49999993	-74.57392883	-75.39776611	-74.73042297	-74.2986145	-73.70872116	-75.26394653	-74.35423279	-75.9322128	-75.58366394	-80.57668304	-75.44812012
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792.499966	-75.09803033	-74.06423233	-73.9203949	-75.90321732	-76.41730881	-74.8443985	-75.94363022	-76.24753571	-74.17314148	-83.7360878	-76.0379504
794.999998	-74.58817291	-73.65366745	-73.93824005	-75.65112305	-76.68345642	-74.26253981	-75.20087814	-74.16869736	-74.7888544	-83.48913574	-75.74207954
797.499966	-75.3483963	-74.12135315	-74.63624954	-74.47400284	-75.99032593	-75.0268364	-74.85569763	-75.04988861	-74.55789185	-82.13035965	-75.61910019
799.999998	-76.17478943	-74.80641556	-74.8625145	-74.29128265	-74.94415283	-75.1293869	-74.57662201	-75.14520645	-74.10108185	-81.19589996	-75.52273521
802.499966	-75.67366028	-75.13058472	-75.76073074	-74.45908356	-74.27265549	-74.70103073	-73.72068024	-75.27750397	-73.94272995	-80.8886795	-75.38273392
804.999998	-74.85372925	-74.59158325	-76.43942642	-74.89247131	-74.45607758	-74.00919342	-73.78293228	-75.64563751	-74.1810379	-80.33112335	-75.31832123
807.499966	-75.57619858	-74.82771683	-78.23054123	-75.12483978	-75.4744873	-74.26094055	-74.32310104	-75.89022064	-74.26890182	-80.14419174	-75.81211395
809.999998	-76.63201333	-76.03915787	-77.49283218	-74.03334427	-76.30407715	-75.37281036	-74.45246124	-75.40702438	-74.46546555	-80.2873899	-76.04778442
812.499966	-75.99406433	-76.47914886	-75.6686554	-73.47574234	-75.3983078	-75.48966217	-74.40251923	-74.63402939	-74.82907104	-79.98652649	-75.63577221
814.999998	-74.35338593	-76.34489059	-75.46157455	-73.88080978	-74.62031555	-75.10276794	-75.03858185	-74.46922302	-74.76682281	-80.07367706	-75.41120491
817.499966	-73.92939737	-75.46421051	-74.64014435	-73.91947556	-74.33570099	-75.03859037	-75.64177704	-75.43419647	-75.02317047	-80.7902252	-75.41356601
819.999998	-74.57406616	-75.09596634	-74.53824615	-74.24213791	-74.7126379	-74.85663065	-75.38459015	-76.04891205	-74.83898544	-79.18052498	-75.4149895
822.499966	-74.62199402	-75.49369049	-75.20115662	-75.19309235	-75.74151993	-74.9405098	-75.36984253	-75.57233047	-73.91872025	-79.34375	-75.53966044
824.999998	-74.72153854	-75.19827271	-75.17215729	-75.55836105	-75.63017654	-74.84845734	-74.91289902	-75.48544312	-73.53703308	-79.91065598	-75.49749967
827.499966	-74.34080214	-74.40547562	-74.73846375	-74.83985519	-75.69575117	-74.83207321	-74.55667196	-75.39722824	-73.88945899	-79.42035675	-75.1760321
829.999998	-74.96559906	-74.04541779	-74.25610733	-75.01130295	-74.62002487	-75.08129501	-74.47944641	-74.74405289	-73.8896103	-79.20267487	-75.23948861
832.499966	-75.70262527	-73.86211777	-75.60613251	-76.31532288	-75.79525757	-75.03791809	-74.31256104	-76.10515213	-73.3957634	-79.44264984	-75.55755005
834.999998	-75.01769257	-74.57015661	-75.73136139	-75.64636612	-75.61922836	-74.74094744	-74.64530182	-75.68484116	-74.17576218	-79.31839398	-75.51831665
837.499966	-75.22380829	-74.77783585	-74.34640503	-74.4753418	-75.35493088	-74.17240143	-75.6996727	-75.13000488	-75.22156525	-79.24943542	-75.36514017
839.999998	-75.06468964	-74.41257858	-74.03299713	-73.71995926	-75.42231369	-74.5312955	-75.97716904	-74.86637497	-75.28272629	-79.5517185	-75.2871166
842.499966	-74.63271332	-74.77758408	-73.65846634	-73.65678024	-75.91465378	-76.1862484	-74.77582932	-75.38273621	-74.81835556	-80.01618195	-75.8201256
844.999998	-74.23788071	-74.84464264	-73.42752075	-74.78062439	-76.28896713	-76.59600449	-74.26678085	-74.6669693	-75.4030304	-80.23525238	-75.4747673
847.499966	-74.17084503	-74.60123062	-73.92790985	-75.09669876	-76.56300735	-75.03008652	-73.82821274	-74.13732529	-75.74526596	-79.78309884	-75.2884491
849.999998	-75.33180521	-75.4656105	-74.56231689	-74.17864609	-75.97551346	-74.06997299	-74.13843536	-74.24276733	-76.05242538	-79.18052292	-75.31972961
852.499966	-74.64404297	-77.04224014	-75.07011795	-74.37007523	-75.80667114	-73.86051941	-75.87300873	-74.63838102	-75.4999619	-78.69619751	-75.54967003
854.999998	-74.16774368	-77.78609848	-75.32879639	-74.63574219	-74.56232694	-74.23211773	-75.76564407	-74.68059158	-74.16695648	-78.80635834	-75.41333809
857.499966	-75.05567151	-77.24742126	-74.83800507	-74.62150955	-74.39412308	-74.16144226	-75.91035843	-74.2748909	-73.99643707	-77.56004715	-75.00962817
859.999998	-75.75004956	-75.22218378	-74.52252579	-74.68685913	-74.65358353	-74.32991272	-75.74839783	-74.67419052	-73.95420702	-78.8690567	-75.03092123
862.499966	-76.07968521	-73.25483704	-74.77272034	-75.16424179	-74.08185196	-74.30456181	-75.75673294	-75.81147766	-74.2134552	-76.82806061	-75.02676239
864.999998	-75.81055832	-72.47507095	-74.77549362	-74.68148422	-74.14391708	-74.06956637	-76.30453491	-76.68437576	-74.39494324	-76.68485645	-75.00248909
867.499966	-74.83698401	-72.81625366	-75.29227448	-74.6027637	-74.96125793	-74.19864655	-76.0353775	-76.66887665	-74.64210129	-77.14400864	-75.08029671
869.999998	-74.13242722	-73.16016388	-75.35818481	-75.01674271	-75.80929164	-74.21295929	-75.57449341	-75.0052232	-75.32290649	-76.8466568	-75.04390488
872.499966	-74.36445236	-72.9962917	-75.0704422	-74.75028992	-74.45152644	-74.7161055	-73.6638031	-73.72227859	-74.11937714	-76.38951874	-74.47047234
874.999998	-74.31452197	-72.84959793	-74.68746948	-74.23807526	-73.48779297	-74.85326175	-72.88070297	-73.34636669	-74.16604614	-76.1204567	-74.09325371
877.499966	-74.26390095	-73.44940948	-74.85300064	-75.04603034	-73.67984097	-75.96631222	-74.84066662	-73.60249329	-73.96217728	-76.23972321	-74.59013481
879.999998	-74.26588821	-73.97512054	-73.8073349	-75.19047546	-73.69267273	-76.6564827	-75.22777939	-74.15533829	-74.85401535	-77.17588425	-74.90009918
882.499966	-74.56370544	-74.04390717	-74.09051895	-74.96471786	-73.52537537	-76.81098938	-74.32466888	-75.30034256	-75.91318512	-77.29023361	-75.08276443
884.999998	-75.73294883	-74.72676086	-75.94655991	-75.63687897	-73.58531189	-76.26469421	-74.61942673	-74.67932129	-76.79949188	-76.63683701	-75.4628231
887.499966	-77.25230789	-74.82270432	-75.69380569	-76.1905632	-74.01765442	-75.89221164	-75.03512573	-73.88798904	-76.12153244	-76.35433078	-75.52687303
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892.499966	-74.95888901	-75.22298431	-75.26283646	-76.07442856	-74.51889801	-75.79164124	-74.87674713	-73.50954437	-74.71432114	-76.09628677	-75.1026577
894.999998	-74.85689163	-74.74363708	-75.3284912	-75.92646408	-75.51838684	-77.1961441	-74.29881287	-73.30168915	-74.26540756	-77.43428421	-75.2745667
897.499966	-75.04655457	-74.67623033	-75.62475967	-75.82591629	-75.71214294	-75.75684738	-73.62709427	-73.46322632	-73.98684692	-77.80557709	-75.15912285
899.999998	-74.95927048	-74.65441895	-75.83407593	-75.73370361	-74.33095551	-75.55139542	-74.29380035	-73.83414841	-74.8608017	-77.43949127	-75.14920616
902.499966	-74.96893692	-73.81303865	-75.45692062	-75.64723969	-74.11655045	-76.74030406	-73.91903687	-76.17538084	-77.38441086	-76.15149368	-75.02999671
904.999998	-74.49668813	-74.6882019	-74.50949097	-75.43436813	-74.46590042	-75.49595642	-73.81298828	-73.70068741	-75.26570892	-77.13101327	-74.95831833
907.499966	-73.99225535	-75.97754288	-74.11682129	-75.54215622	-75.02742004	-76.77883911	-73.79470444	-73.921756439	-74.82218399	-77.11756134	-75.2187149
909.999998	-74.78839111	-74.75751877	-74.17502213	-75.52291107	-75.63083267	-75.76397705	-74.17667007	-74.56413269	-75.21166611	-78.34419632	-75.2935318
912.499966	-75.7831991	-73.76167297	-74.71163559	-75.42602921	-76.68312073	-73.86641312	-74.21973419	-75.23876572	-76.25859297	-78.39486694	-75.43112907
914.999998	-75.00827789	-74.11852264	-75.20199203	-75.27900314	-76.63262656	-74.63954163	-74.90691757	-75.58946228	-75.68963501	-76.86678696	-75.53404808
917.499966	-74.47554779	-74.74778325	-74.96162033	-75.13404846	-74.67941666	-75.26586532	-74.58550644	-75.51423645	-75.29455185	-79.462115	-75.41207581
919.999998	-74.27117748	-74.67935562	-74.73474884	-75.06568527	-73.67036438	-75.07051086	-74.53065491	-75.87472916	-74.61416626	-79.39232119	-75.19041977
922.499966	-74.36151505	-74.13368225	-74.06610107	-75.41809082	-73.40609067	-75.31134033	-74.99008556	-75.49398804	-74.20035934	-79.72266336	-75.11038055
924.999998	-74.36593628	-73.76996994	-73.28028107	-75.55616379	-74.01119614	-74.34595108	-74.67266846	-75.33393097	-73.8000702	-80.20261539	-74.94047203
927.499966	-74.72280502	-73.98180771	-73.89619446	-74.33985138	-75.15264511	-74.42137146	-74.49301529	-75.33797836	-73.56817245	-80.00437164	-74.99182129
929.999998	-74.89871979	-74.88005447	-75.18816757	-73.55424881	-73.92133331	-75.60548782	-74.38463974	-75.42744064	-74.14218521	-80.0068512	-75.30091286
932.499966	-75.14096832	-76.00299072	-75.60979462	-73.38298416	-73.80309677	-75.46130753	-73.9630127	-74.95419693	-74.811334686	-79.89767075	-75.30293694
934.999998	-74.95121002	-75.03610229	-74.95116425	-74.46704483	-73.63366699	-75.39157104	-73.68022156	-74.1307			

LED MODEL:OSG58A3131A LED COLOR:GREEN Is=5.00[mA] data is 32 points AVG (SUM)

Frequency f[Hz]	Output noise										AVG Output noise Ena[dBv]
	sample1 En1[dBv]	sample2 En2[dBv]	sample3 En3[dBv]	sample4 En4[dBv]	sample5 En5[dBv]	sample6 En6[dBv]	sample7 En7[dBv]	sample8 En8[dBv]	sample9 En9[dBv]	sample10 En10[dBv]	
0	11.94337463	11.90853882	11.90324402	11.7835083	11.84144592	11.89741516	11.70562744	11.85664368	11.88874817	11.86222729	11.85927734
2.49999994	8.49954224	8.465118408	8.45980835	8.340133667	8.398010254	8.453979492	8.26222229	8.413269043	8.44504053	8.42698438	8.415879822
4.99999998	-2.580657959	-2.615623474	-2.621154785	-2.740447998	-2.682777405	-2.628692022	-2.818580627	-2.667129517	-2.634864807	-2.659156798	-2.664726257
7.49999998	-24.7513950	-24.713671265	-24.7985611	-24.91312408	-24.8554306	-24.80289459	-24.96287686	-24.83784485	-24.80271149	-24.82289886	-24.83678055
9.99999997	-71.71763229	-71.74385452	-73.80024719	-72.75959396	-71.75049591	-71.55200577	-71.7657447	-72.56411148	-73.76947784	-73.32029211	-72.47352028
12.49999997	-72.0132637	-72.1188885	-73.73245239	-73.03459549	-71.65606689	-72.55108261	-74.09073257	-71.94537735	-73.83020401	-73.75971603	-72.87323799
14.99999996	-72.33521652	-73.10229492	-73.77641296	-73.91918182	-72.44192886	-72.93831635	-73.0334053	-71.57786631	-73.03123856	-72.62283325	-72.87785149
17.49999996	-72.43325424	-73.65298843	-74.58251572	-73.69231415	-73.2789917	-73.5332222	-71.91162872	-71.62387766	-73.27452087	-72.29743576	-73.02808495
19.99999995	-72.02932739	-73.43972397	-75.32432556	-72.70820236	-74.53813171	-74.07894516	-72.45230103	-72.21422958	-73.60309601	-72.56188202	-73.29501648
22.49999994	-72.49118805	-72.14242935	-74.04623032	-72.5460701	-75.07060623	-74.52890362	-72.42339325	-72.02609253	-72.92401123	-72.12067795	-73.0319603
24.99999994	-72.72903061	-71.41774368	-72.65999603	-73.52721786	-73.97069931	-74.25521851	-71.49103928	-71.93618774	-73.00876236	-71.39257813	-72.63884735
27.49999993	-72.85321808	-72.12304688	-72.54624176	-74.16251755	-73.66702652	-72.97529221	-71.6528511	-73.40108871	-73.01200867	-71.36094284	-72.77542343
29.99999992	-72.87404633	-72.93297195	-72.64844131	-73.67032242	-74.70069504	-72.12936783	-72.8129921	-73.23564911	-74.22509384	-72.51291275	-73.17424927
32.49999992	-72.99857123	-72.9276913	-72.32462311	-74.25475043	-73.72779694	-72.83578949	-73.19763184	-72.54692078	-74.89035797	-72.67309738	-73.22146988
34.99999991	-73.65278244	-71.99531174	-73.08985874	-74.20901108	-73.04666519	-73.41355515	-73.24458313	-72.35874939	-73.81586456	-72.82979584	-73.16552773
37.49999991	-74.19278336	-72.4292717	-73.0166626	-73.0166626	-72.61598587	-73.3575214	-73.3351059	-72.49794006	-73.76400375	-72.74687195	-73.06467056
39.9999999	-73.37927466	-73.95453933	-72.67277197	-73.60712051	-73.16038984	-71.9114151	-72.48869891	-72.05799103	-72.8220787	-73.00257111	-72.8506691
42.49999989	-73.34132863	-71.74549862	-72.20721438	-73.57914734	-73.0036075	-73.03045273	-72.63349533	-71.34234238	-71.68914795	-73.87884903	-72.94603691
44.99999989	-73.08153534	-73.90920258	-71.81641006	-72.73199463	-72.98077393	-73.4227562	-72.83617783	-71.55924988	-71.83179855	-73.9078598	-72.80777588
47.49999988	-72.35635376	-72.88803101	-71.89897156	-72.55753236	-72.58930969	-73.06588749	-71.96191788	-72.66358566	-72.73964691	-73.39589828	-72.61171265
49.99999987	-72.18424988	-72.2083931	-72.21208954	-72.20291138	-72.18570328	-72.83588405	-72.1575737	-72.60129166	-73.53255844	-73.47172165	-72.55923767
52.49999987	-71.83703232	-71.61588669	-72.82008362	-72.52470016	-72.93279648	-72.71708298	-72.72891617	-72.47999191	-73.02952194	-73.27201843	-72.5985078
54.99999986	-71.41880417	-71.90294266	-74.24664307	-73.03980637	-73.03980637	-72.4878273	-72.85728836	-72.9098922	-72.23431015	-72.26130295	-72.91784861
57.49999985	-70.99269867	-73.00187302	-73.67453384	-72.6453743	-74.23714447	-72.23028946	-72.08393478	-73.61824036	-71.61364365	-71.29933929	-72.53970718
59.99999985	-71.69948578	-73.17550278	-73.10332334	-72.04184723	-74.00750732	-72.04060364	-72.33927917	-73.05809784	-71.78215408	-71.12737312	-72.44204483
62.49999984	-73.49178314	-72.0774231	-72.94645309	-72.03502655	-74.1086235	-71.89106369	-72.55282974	-72.05449677	-72.37748337	-71.95970917	-72.54948921
64.99999984	-73.11142731	-71.68040466	-73.1314888	-72.42860794	-74.04286957	-73.09969559	-71.94606781	-71.46606445	-73.20949936	-72.3152504	-72.60313759
67.49999983	-72.08503723	-72.97005081	-73.58441925	-72.27444839	-71.29638867	-73.0008419	-73.05067825	-71.36639404	-73.81285858	-72.84183502	-72.91163444
69.99999982	-71.69345093	-73.5231781	-72.845047	-72.11313248	-73.53155136	-72.46918869	-73.07826996	-71.69893646	-72.04609607	-72.37370361	-72.61505547
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834.999998	-73.04459763	-73.53534698	-73.08163834	-71.54635239	-72.01160049	-71.7071599	-73.2439213	-71.63195038	-73.00881195	-72.74292276	-72.528909
837.499966	-73.59168243	-72.39048386	-73.20059204	-71.70457458	-72.68957901	-71.83423615	-73.18752289	-71.15303693	-73.11375046	-71.43176635	-72.5291219
839.999998	-73.93450546	-71.01574761	-72.58937454	-72.84705734	-74.04114151	-73.08115005	-72.5425922	-73.28897858	-72.58268356	-71.45527649	-72.73799744
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844.999998	-73.66007233	-72.08660889	-72.3170829	-73.7013092	-73.38430023	-72.445755	-72.43112183	-72.97935867	-72.37058258	-73.71936798	-72.90055696
847.499966	-72.81347656	-72.40077591	-72.90971756	-73.45006943	-73.09173965	-72.32778168	-72.12509155	-72.20927429	-72.75860977	-73.23861313	-72.73251495
849.999998	-71.74934769	-72.78417021	-72.78103611	-72.87153625	-71.65286636	-73.0095233	-72.98178864	-71.73758698	-72.47212601	-73.33103943	-72.47306557
852.499966	-71.35746765	-72.96208954	-73.28070831	-72.44454575	-71.40121841	-72.83641434	-74.25383759	-72.09745407	-73.7468262	-72.34032059	-72.61487389
854.999998	-70.75592804	-71.97628021	-73.66521454	-72.40774918	-72.78244019	-72.55239342	-73.53866196	-72.62331772	-73.47806931	-72.30638885	-72.60864334
857.499966	-71.06352234	-71.59315109	-72.88238907	-72.89777756	-72.99364853	-73.32964014	-72.71327209	-73.05250931	-72.71458433	-72.46843338	-72.47087479
859.999998	-72.98419189	-72.31416321	-72.08043289	-73.35987854	-71.88661194	-72.2013588	-72.4498558	-73.47401581	-72.1760788	-71.77464676	-72.56012344
862.499966	-73.67456055	-73.17214584	-72.89266586	-74.51919174	-71.96983337	-72.90562439	-71.89412308	-73.685009	-73.26013947	-71.80430984	-72.97776031
864.999998	-72.88032913	-72.79423141	-74.91828537	-73.3229866	-72.09990084	-72.91570663	-71.94616318	-73.041996	-74.88697087	-73.07265091	-72.2862011
867.499966	-72.70459223	-72.56464566	-73.58864487	-73.58440399	-72.4180069	-72.15031433	-73.0197757	-73.8618622	-73.49279139	-73.1712616	-72.99190392
869.999998	-73.2953499	-72.06372833	-72.8828879	-73.53948975	-72.1223434	-73.29707336	-72.63592529	-72.79179764	-73.83230591	-72.55820084	-72.90190392
872.499966	-71.60741425	-70.0412674	-71.97531891	-72.19431305	-70.02864075	-72.84482956	-70.71181488	-71.53933334	-71.55556488	-71.464848	-71.39633789
874.999998	-69.74317932	-70.15522003	-71.79269208	-71.06784058	-69.39122391	-72.9755783	-69.82348251	-70.86423111	-70.73925781	-71.57059395	-70.74452629
877.499966	-68.58098221	-72.09286417	-71.57465368	-71.78092957	-71.45564651	-71.401371	-71.50216293	-71.80690765	-72.67761741	-72.6891027	-71.66937021
879.999998	-70.20391083	-72.10945892	-71.64344788	-71.79277802	-72.9697876	-71.12850571	-72.59178162	-73.07297897	-74.2506752	-73.96156693	-72.37248917
882.499966	-71.27706146	-72.46951294	-72.12537382	-71.97432709	-72.30288696	-72.11938477	-72.8392495	-73.4940567	-74.55309677	-74.5726016	-72.7302856
884.999998	-71.79935657	-72.54188538	-72.00467684	-72.12367249	-71.727211	-72.31387329	-72.94248581	-72.96245956	-74.15329631	-72.59288788	-72.51623764
887.499966	-71.70543289	-72.76028442	-72.33895854	-72.99621201	-71.88620758	-71.30964661	-73.30021286	-73.04943848	-73.46994781	-71.97812271	-72.47914909
889.999998	-72.95879745	-72.69799423	-73.14538193	-72.44623184	-70.71652222	-72.56253815	-73.90739822	-73.13820648	-71.89463043	-72.56795001	-72.67832514
892.499966	-73.41619873	-73.15942764	-72.097229	-72.49813461	-72.85119629	-71.23902512	-72.66682434	-74.00997162	-72.99267578	-71.68519211	-72.66158752
894.999998	-73.49095154	-73.93366226	-72.1229538	-72.11895752	-73.12548828	-72.2108795	-72.8163147	-72.16228104	-72.7241478	-71.33671188	-72.56918983
897.499966	-72.53874207	-73.34369278	-72.6085434	-72.50627899	-73.67103195	-72.54848099	-72.71832657	-72.2342453	-72.82807159	-71.3510437	-72.53484573
899.999998	-71.76906586	-73.45759964	-72.74940872	-72.91440964	-71.65098953	-72.29592142	-72.54044342	-72.97946548	-73.25491333	-71.72891998	-72.53047371
902.499966	-71.95326996	-72.72080994	-72.74471283	-72.56505585	-72.41467667	-72.48996353	-72.75453568	-72.02920344	-73.79292348	-71.31816101	-72.47832214
904.999998	-71.91303638	-72.21801376	-72.23546219	-72.18143845	-72.87337494	-73.25089254	-73.46427917	-71.9790802	-74.0966301	-71.06763077	-72.52798386
907.499966	-71.52376935	-72.45528412	-72.05433005	-72.07292175	-72.76856613	-73.24459261	-72.78050995	-72.34978104	-74.04367828	-71.4679451	-72.52523117
909.999998	-71.71007156	-72.83282471	-73.41757202	-72.83550262	-73.37398148	-72.04558296	-72.6770134	-72.11499405	-74.32172012	-71.7148056	-72.70443115
912.499966	-72.08840179	-72.43773651	-73.39132309	-74.27272797	-73.1215744	-72.61490631	-72.47878265	-71.56491852	-73.04680252	-72.19575119	-72.712925
914.999998	-72.76309079	-72.039814	-73.16627502	-73.62262614	-73.22481537	-74.15555573	-72.1880455	-71.30925751	-72.7702713	-72.29059982	-72.7038517
917.499966	-72.34253693	-72.49895477	-72.37849045	-72.81521988	-74.63325882	-73.12629174	-72.59304428	-72.57102525	-72.64661789	-73.15726089	-72.77627182
919.999998	-71.99453795	-72.52696609	-71.63171768	-73.50392532	-74.42908478	-72.71892166	-72.19813538	-72.05064392	-72.94469833	-74.16846848	-72.8167109
922.499966	-72.38150392	-71.82021173	-70.81464005	-73.52737045	-73.36181541	-73.15721983	-72.27180862	-71.90821457	-73.55883789	-74.13863373	-72.6939817
924.999998	-72.62468812	-71.93828112	-72.45637894	-72.45637894	-72.10335169	-72.71383037	-72.8679924	-71.75799561	-73.63932327	-71.7425575	-72.49047661
927.499966	-72.86416245	-72.39692688	-71.48536301	-72.03384399	-71.12903595	-71.62104034	-72.66792297	-72.78643036	-73.50625229	-73.45030212	-72.39412804
929.999998	-72.46935654	-72.15691757	-72.27943039	-73.09035873	-71.55097198	-71.73728943	-72.82594299	-73.13977814	-72.75548172	-72.94675064	-72.49522781
932.499966	-71.39413452	-72.51071548	-73.47035217	-71.89612198	-72.0837326	-73.21247864	-72.81141281	-72.5220108	-71.97150803	-72.51468273	-72.54842773
934.999998	-71.69807434	-72.10869217	-73.84354401	-73.26370239	-72.59296036	-72.4					

LED MODEL:OSNG3133A		LED COLOR:GREEN										Is=5.00[mA]	data is 32bits AVG (SUM)
Frequency f[Hz]	Output noise										AVG Output noise Ena[dBv]		
	sample1 En1[dBv]	sample2 En2[dBv]	sample3 En3[dBv]	sample4 En4[dBv]	sample5 En5[dBv]	sample6 En6[dBv]	sample7 En7[dBv]	sample8 En8[dBv]	sample9 En9[dBv]	sample10 En10[dBv]			
0	5.853862305	6.884671124	6.84239502	8.57975769	8.743209839	8.61038208	8.734893799	8.766159058	8.595230103	8.651168823	8.659173584		
2.49999994	5.140426636	5.241264343	5.199020386	5.136306763	5.299812317	5.166908264	5.291481018	5.322662354	5.151786804	5.207748413	5.21574173		
4.99999998	-5.940376282	-5.89394021	-5.881202698	-5.944732666	-5.780723572	-5.913894653	-5.789260864	-5.758300781	-5.929145813	-5.873039246	-5.865001678		
7.49999998	-28.11869625	-28.01126862	-28.04572296	-28.12630463	-27.9525528	-28.0971582	-27.96583225	-27.95148041	-28.05122375	-28.05122375	-28.03959691		
9.99999997	-75.49811172	-74.54275894	-75.39159393	-74.88745499	-75.11592484	-73.40275574	-73.88282394	-75.71061707	-76.32703018	-73.45627213	-74.82153435		
12.49999997	-74.99657059	-74.15860367	-74.76446533	-75.5438118	-74.70787811	-74.07735443	-74.50276184	-75.41422272	-76.68610001	-73.13830948	-74.7990078		
14.99999996	-75.10985565	-75.38033295	-74.31523895	-75.20757675	-74.94535828	-74.52370834	-74.8204689	-75.27558899	-75.6125412	-73.88114548	-74.90718155		
17.49999996	-75.5078125	-76.00210953	-75.14726639	-74.49210358	-74.08772659	-74.36629486	-75.14409637	-75.74019241	-74.98462677	-74.77894592	-75.02511749		
19.99999995	-76.43014145	-74.41136551	-74.86479187	-75.08792114	-73.8890686	-74.47898865	-75.27968216	-75.1512146	-73.88697052	-74.83309555	-74.83132401		
22.49999994	-75.25973129	-73.86399841	-74.40945053	-75.06978226	-75.10032654	-75.26058197	-75.23475665	-74.64792633	-73.61705017	-74.81391907	-74.75662422		
24.99999994	-73.5738945	-74.41585159	-73.79194641	-74.32586288	-76.03282166	-75.9643898	-74.87107086	-73.75457001	-74.74237442	-75.32793045	-74.68007126		
27.49999993	-74.07247925	-75.03940201	-73.80887222	-74.37328339	-75.31481171	-75.3723526	-74.06149292	-73.89469528	-76.1229744	-75.38717651	-74.74475403		
29.99999992	-75.31500244	-75.10799408	-74.23608398	-75.07717896	-74.84190369	-75.05815887	-74.55115509	-75.49660873	-76.38961411	-74.87780762	-75.09515076		
32.49999992	-74.83919907	-74.32869339	-74.93553162	-75.28105927	-74.56632614	-74.68360519	-75.16278076	-75.4697876	-76.06101608	-74.8098743	-75.02153702		
34.99999991	-74.24310033	-74.65698624	-75.6397934	-74.39457244	-73.91340637	-73.85879517	-74.74529648	-74.80728531	-75.03442527	-74.44638062	-74.57390366		
37.49999991	-75.05317688	-76.16432571	-75.49203491	-73.94296646	-74.7212944	-74.06646729	-75.28927231	-74.97610092	-74.77152477	-74.20874023	-74.68698079		
39.9999999	-75.57187653	-75.9824158	-74.68236542	-75.13079453	-75.44448471	-74.38458252	-76.53585434	-74.015570892	-74.99415207	-74.76096725	-75.21090279		
42.49999989	-74.88822937	-74.95473862	-74.65935516	-75.74759674	-74.45663452	-74.47581822	-75.5832634	-75.21595001	-74.54376221	-74.89453888	-74.8198837		
44.99999989	-75.26924515	-74.37834549	-75.49728394	-74.56085968	-73.86312485	-74.82984543	-75.06362534	-74.55469894	-74.10772324	-74.55378342	-74.66785355		
47.49999988	-76.03469467	-73.86607361	-75.96573257	-74.63619995	-73.89459991	-74.87213898	-74.58904266	-74.55353928	-74.30537796	-74.02202476	-74.75376244		
49.99999987	-76.22451401	-75.1951508	-75.15251923	-74.63365555	-74.17540359	-74.36396799	-73.64048767	-74.5055542	-75.00898743	-74.92811203	-74.71127167		
52.49999987	-76.25366211	-75.57468414	-74.78125	-74.32186127	-74.33494568	-74.32200241	-73.28347015	-74.7790451	-75.81454849	-74.51519165	-74.7880661		
54.99999986	-75.43091202	-76.80516815	-74.836586	-74.77655411	-75.08243561	-75.75301743	-73.98379184	-74.79942322	-76.25156403	-74.30437088	-75.20368233		
57.49999985	-75.29807281	-75.60039902	-75.15211105	-75.3936615	-76.42699814	-76.07545853	-74.19992447	-75.26763535	-75.49635315	-75.078125	-75.3988739		
59.99999985	-75.0808754	-74.60152817	-74.95005417	-74.83230972	-76.2053833	-74.75091101	-74.44076538	-75.26317978	-75.20706177	-75.71262628	-75.1008274		
62.49999984	-75.11330795	-74.83384323	-75.09126663	-74.71146393	-75.86379929	-74.25748683	-74.35886002	-74.69654465	-75.30102539	-75.26831436	-74.92867273		
64.99999984	-75.39220277	-74.75673294	-75.40163422	-73.61235046	-74.90926361	-74.81614685	-74.40369415	-74.12923813	-75.7614212	-75.02478409	-74.82080879		
67.49999983	-76.68400787	-74.89743805	-75.11336899	-73.36661148	-74.27100372	-74.70405471	-73.98332977	-74.17570114	-75.6784668	-75.88718033	-74.77675629		
69.99999982	-75.00014496	-74.00547791	-73.46235657	-74.38059235	-73.56635721	-74.28315735	-73.78486252	-74.85807419	-74.68133926	-75.4539566	-74.34735719		
72.49999982	-75.18027633	-73.33670425	-72.52926254	-74.69165039	-74.8505844	-73.7457695	-73.80923462	-74.80712692	-74.640522	-74.83599854	-73.95015945		
74.99999981	-76.43621063	-74.10167694	-72.93159866	-74.43045044	-73.47117996	-73.89664841	-73.43066025	-74.07225418	-75.7489624	-75.35380554	-74.38734474		
77.4999998	-76.26316071	-74.85480118	-74.73468018	-75.36172104	-75.0430336	-74.38637161	-73.99160767	-74.1436882	-75.45588303	-75.13370132	-74.93686485		
79.99999978	-76.01034164	-75.5336647	-75.50279236	-75.1908226	-76.6817114	-74.88228226	-74.3817749	-74.02475357	-74.7736572	-74.73165512	-75.07133255		
82.49999977	-76.11174011	-74.04661942	-74.47814178	-74.711118927	-76.93970871	-75.19167709	-73.91722107	-73.2433548	-74.01846695	-75.87932559	-74.82460518		
84.99999976	-76.21727391	-74.81522369	-74.02025986	-74.75605774	-76.40313721	-73.90559600	-74.23508453	-73.72740555	-73.66858292	-74.91262054	-74.66617012		
87.49999976	-75.81441059	-75.78624344	-74.56818008	-75.01545334	-74.61293441	-73.486763	-75.61526108	-74.61087799	-73.82834244	-73.68054962	-74.70187111		
89.99999975	-75.86685562	-76.34505081	-75.53373337	-74.56261826	-73.92187119	-76.10176849	-74.91749954	-74.03187787	-73.49654007	-74.99169807	-74.99169807		
92.49999975	-76.47619247	-75.43842697	-74.3225975	-75.53013992	-75.21535492	-74.34244537	-75.69939041	-74.66495895	-74.41413116	-74.85421753	-75.09578552		
94.99999974	-77.08291626	-75.22582245	-74.06924438	-74.67222595	-74.46510696	-74.73807907	-75.02458572	-74.6809845	-74.34836578	-75.81512833	-75.01224594		
97.49999973	-76.23366714	-75.61996841	-75.034832	-74.33966064	-74.08199692	-75.29530334	-74.36212158	-76.10393524	-74.56930923	-75.30348587	-75.09342802		
99.99999973	-75.77914429	-75.34803772	-75.23405838	-74.31290817	-73.75114059	-75.06808773	-75.00730133	-76.54243469	-74.57035828	-75.34972763	-75.15037918		
102.4999997	-75.89320274	-74.73739896	-75.3152504	-74.82760818	-75.5146069	-75.09972748	-75.27322006	-76.57666016	-74.2861824	-74.93302506	-74.98145103		
104.9999997	-75.21239853	-74.78158188	-75.79070282	-73.89022446	-74.25893784	-75.33044052	-74.52607346	-75.61322403	-74.46583557	-73.91425323	-74.77836723		
107.4999997	-74.96970749	-75.05879593	-75.06782532	-74.1297226	-74.92250061	-75.0001297	-75.13425446	-73.51662445	-74.96360016	-73.89198685	-74.66551476		
109.9999997	-75.4015007	-75.8067894	-74.41242218	-74.47470474	-74.91114426	-74.33002853	-76.29813385	-73.67711639	-74.19190598	-75.85172958	-74.85154756		
112.4999997	-76.45329285	-75.79558945	-75.11893082	-74.5477829	-74.20505142	-74.45439148	-75.94569016	-75.52177811	-73.6596716	-74.57128906	-75.02707634		
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877.499966	-74.83272552	-75.86581039	-74.45293427	-75.40029144	-74.34747696	-73.36188126	-74.65205383	-75.02738571	-75.26480865	-75.11210819	-74.83265702
879.999998	-75.48197174	-75.65481186	-75.88063431	-76.03203201	-75.68624496	-73.625	-74.33623505	-75.56739426	-75.25069427	-75.01462936	-75.25296478
882.499966	-74.52405167	-74.9248085	-76.06802153	-76.00569534	-76.42503738	-74.3727951	-74.43421936	-75.19562531	-75.76851273	-75.00749588	-75.27190628
884.999998	-74.0752182	-74.59740067	-75.31087875	-74.86911392	-76.94594193	-74.84943582	-75.34740067	-74.72711182	-74.93745804	-74.94306946	-75.01620293
887.499966	-74.37957001	-75.20018387	-74.13678471	-74.62099075	-75.80032349	-74.59373474	-75.61487579	-74.9772568	-73.93198395	-74.52104187	-74.75972176
889.999998	-74.99863052	-74.46136475	-74.05631638	-75.6300087	-75.30127716	-74.63664246	-75.08256531	-75.81615067	-73.73902893	-73.9998703	-74.7218552
892.499966	-75.61048508	-73.84404373	-73.57232666	-75.26400757	-75.2665062	-74.29378128	-74.6798172	-75.54229840	-74.46834564	-74.48509979	-74.70273972
894.999998	-75.31975937	-73.93387776	-73.91819382	-74.68104935	-76.7996216	-74.15396118	-74.87375259	-74.94947604	-75.01092911	-74.51601181	-74.89819832
897.499966	-75.70877884	-74.07884598	-74.50727463	-75.50554276	-72.79478073	-75.98399353	-75.11481476	-74.72845078	-75.60992432	-75.49011993	-75.25846252
899.999998	-75.18719864	-75.20435715	-74.75029373	-76.18679047	-75.94569778	-75.93052673	-75.09423065	-74.26707077	-76.83600998	-73.61828613	-75.3020462
902.499966	-74.13291956	-75.54217529	-75.57044983	-75.20940399	-74.62288639	-74.65413666	-75.19036865	-73.48452377	-76.82168884	-74.25237274	-74.89196777
904.999998	-73.90055084	-74.83657837	-75.06378937	-73.71318054	-73.420578	-74.19049072	-74.62831116	-73.67053986	-75.49663925	-75.058135147	-74.43020096
907.499966	-74.02276611	-74.13027191	-74.11618805	-73.18349457	-73.3175354	-74.78739077	-74.18160291	-75.37646866	-74.99374494	-75.6486369	-74.2668829
909.999998	-74.99085617	-73.94252014	-75.3907814	-74.26773071	-73.33679962	-75.16985321	-74.89926529	-76.25046921	-73.96363331	-75.01646423	-74.72283783
912.499966	-75.62896347	-75.03014374	-75.41069412	-74.96355438	-74.10779572	-75.16719055	-75.88720703	-74.68193054	-73.65470505	-75.411129	-74.99433136
914.999998	-75.74598312	-76.16101837	-73.78690796	-74.59086609	-74.05634689	-74.79236687	-75.07200623	-74.0998764	-73.93879318	-75.71814346	-74.81625786
917.499966	-76.72262024	-75.95969772	-73.96495056	-74.06663895	-73.70962524	-74.10311127	-74.75125504	-74.2835085	-74.74869919	-75.21951675	-74.75296059
919.999998	-76.22026497	-76.31362915	-74.1776657	-74.05903625	-73.99966171	-74.59938049	-74.44101713	-74.25898743	-74.51869873	-74.71328392	-74.71328392
922.499966	-74.4529138	-75.76598358	-74.67411041	-74.93425701	-74.49609756	-74.16175079	-74.44260406	-74.00339127	-74.22704315	-74.978302	-74.61364517
924.999998	-73.84838797	-74.51335526	-75.00149918	-74.87505104	-74.75226674	-74.68571794	-74.70645905	-73.82397461	-74.9294281	-75.70672989	-74.68789368
927.499966	-74.73511124	-74.00371552	-74.93994141	-74.46242523	-75.13269806	-75.53857422	-75.49153519	-74.31922913	-74.94829559	-75.28888702	-74.88604126
929.999998	-75.4473114	-74.54494095	-75.30973053	-74.97518539	-74.8091507	-75.78364563	-75.4628067	-74.47694778	-73.96770477	-75.372612	-75.01500359
932.499966	-75.13400269	-74.5332489	-75.67627335	-75.33075333	-74.91107559	-75.73390579	-73.9291153	-73.87513351	-75.1262018	-74.94586296	-74.94586296
934.999998	-74.84555817	-73.83562851	-75.24143219	-74.82709122	-75.28760529	-75.4					

LED MODEL:OSUB3131P		LED COLOR:BLUE										Is=5.00[mA] data is 32 points AVG (SUM)									
Frequency f[Hz]	Output noise										AVG Ena[dBv]										
	sample1 En1[dBv]	sample2 En2[dBv]	sample3 En3[dBv]	sample4 En4[dBv]	sample5 En5[dBv]	sample6 En6[dBv]	sample7 En7[dBv]	sample8 En8[dBv]	sample9 En9[dBv]	sample10 En10[dBv]											
0	9.144459229	10.14724731	11.48606873	11.46913147	9.760665894	9.22479248	9.795822144	9.711471558	9.11076355	11.04034424	10.11607666										
2.49999994	5.974450806	6.703010559	8.043640137	8.025741577	6.318458557	5.780059814	6.352607727	6.267196655	5.668121338	6.76939087	6.67272626										
4.99999987	-5.103851318	-4.382202148	-3.035728455	-3.054962158	-4.746231079	-5.505755615	-4.726783752	-4.81678772	-5.407478333	-3.483650208	-4.40643079										
7.49999981	-27.07595888	-26.55213928	-25.26925659	-25.23219299	-25.20286102	-27.41213226	-26.90403075	-26.94948578	-27.50069427	-25.6542812	-26.50391305										
9.99999975	-43.74209595	-50.72890472	-51.98748779	-71.64120483	-45.33465576	-46.62708282	-49.62620544	-50.74810791	-52.89696503	-71.93698502	-53.52698953										
12.4999997	-44.07495117	-52.03527069	-53.46980286	-72.87082291	-47.60743713	-47.62572479	-51.08892822	-52.10093689	-53.69429779	-72.4259491	-54.6994126										
14.99999966	-45.50829315	-52.73252106	-49.52285004	-73.5977478	-49.47310638	-49.07188416	-53.18698883	-53.29116058	-55.15047455	-72.94719315	-55.44822197										
17.4999996	-46.06612396	-53.15354156	-60.63496399	-72.78202438	-50.2385025	-49.72226715	-54.06874847	-53.85375977	-55.5275116	-73.21200562	-55.9259449										
19.99999955	-45.81218719	-53.91625214	-54.07868195	-72.82207489	-50.30275726	-51.84114838	-54.08824921	-54.33031464	-55.8429184	-74.19898987	-56.72335739										
22.49999954	-46.59210998	-54.20791626	-55.78858948	-73.89252472	-51.28856659	-52.30818176	-54.86271667	-55.28887939	-56.48653412	-74.40620041	-57.51222191										
24.9999994	-48.06072998	-54.66510773	-60.15757751	-73.91917731	-52.08641815	-53.18107605	-55.05634308	-56.55760956	-57.13823318	-73.87408447	-58.46969528										
27.4999993	-49.12939453	-55.04182434	-60.87839127	-74.0980835	-52.74666595	-54.05413055	-54.54911804	-57.32463074	-57.4143219	-73.05462265	-58.82911835										
29.9999992	-49.91023254	-55.24446869	-57.01888657	-73.97612381	-53.77636719	-55.19057465	-54.99462128	-56.53897095	-57.53439331	-72.82452393	-58.70091629										
32.4999992	-50.62797546	-55.33792877	-54.65480804	-73.19859695	-54.53984833	-54.42726886	-56.33967209	-57.31461716	-58.91156769	-72.99847794	-58.8351181										
34.9999991	-51.31155396	-55.92745209	-53.99626923	-72.19198227	-54.55727386	-53.76029442	-56.9962883	-59.57003403	-59.45495987	-72.86684418	-59.05629422										
37.4999991	-51.68531799	-56.51784515	-53.29522705	-71.99111557	-55.62020874	-54.31064606	-57.29844666	-58.98641586	-59.44766617	-72.73838043	-59.18912697										
39.999999	-52.23884583	-57.19283295	-55.44616699	-71.80509793	-55.71965027	-54.66240071	-57.83662033	-58.45007324	-60.41423416	-72.0285266	-59.66863251										
42.4999989	-52.87136841	-58.55116653	-58.94537755	-71.87059784	-55.94319877	-55.39324188	-57.80174255	-57.84259796	-60.99124527	-73.12417603	-60.17113914										
44.9999989	-53.67386627	-58.35717392	-57.42822647	-72.72007751	-54.53447723	-57.23849487	-58.02746201	-58.69866562	-61.37700272	-73.19618225	-60.52516289										
47.4999988	-55.68138123	-57.46433558	-58.4430809	-72.79977036	-55.53041077	-58.26604843	-60.17497635	-59.88959885	-61.45858002	-73.45810699	-61.31663895										
49.9999987	-56.19388199	-57.2308182	-61.53395844	-73.1019554	-55.5951691	-57.55257419	-59.48570633	-58.65028763	-60.78110886	-72.84805298	-61.29401245										
52.4999987	-55.04823717	-57.69495773	-63.0025177	-72.70923477	-55.95466714	-56.40140152	-58.84451294	-59.5616188	-60.92556763	-71.70747375	-61.18503838										
54.9999986	-54.79477692	-58.44844818	-61.33839417	-71.04218674	-56.32972117	-56.89769892	-61.2081337	-60.84234238	-62.33520241	-71.77004242	-61.50297699										
57.4999985	-56.42552185	-59.24912643	-61.0810051	-70.657547	-56.42627335	-57.8306694	-61.87737274	-61.08348465	-62.89036179	-72.281147	-61.98025093										
59.9999985	-58.10151672	-59.25868225	-62.10176086	-71.36978912	-54.90849012	-58.7561196	-60.21758652	-61.05864334	-62.77542877	-72.05558014	-62.06306148										
62.4999984	-58.00435638	-59.56394958	-57.81525421	-72.4518013	-54.82972117	-57.4568634	-59.42427826	-60.91397095	-62.56923676	-72.42145157	-61.54508896										
64.9999984	-57.39096451	-58.91114426	-57.35931015	-73.53805923	-56.02366638	-57.35980999	-59.43760681	-60.71435928	-61.60888858	-73.00920105	-61.60507813										
67.4999983	-56.84859085	-57.50294495	-61.88800812	-73.31437683	-56.81331253	-58.3802948	-60.91507339	-60.72351617	-61.69686652	-72.33522034	-62.04240036										
69.9999982	-56.60770416	-58.6564636	-63.83048248	-72.26515961	-57.5862236	-57.97383499	-61.5034256	-60.82014847	-61.25469208	-71.91719413	-62.067911										
72.4999982	-56.76895142	-57.21595001	-63.97439575	-71.74661746	-57.5489769	-58.6832016	-61.1868248	-61.0715332	-61.91090393	-71.57030557	-62.21135292										
74.9999981	-57.18027115	-58.68442154	-64.79213333	-72.0785408	-58.16501236	-58.91407394	-61.26250076	-62.92293167	-62.63428497	-71.61807632	-62.82522469										
77.499998	-57.60392761	-59.40759277	-61.5228653	-71.97105789	-59.23293686	-59.04218766	-60.51347351	-62.3266983	-61.94016647	-71.94760895	-62.55094953										
79.9999978	-57.23412704	-58.69286346	-59.08047867	-72.0615654	-58.77252549	-59.50759126	-60.83092117	-62.18705368	-61.82103348	-72.47097778	-62.26591644										
82.4999978	-56.2217928	-58.77400208	-60.03713226	-72.03604889	-58.60848999	-59.51641051	-61.94320679	-61.64204205	-62.54504776	-72.55844879	-62.38826607										
84.9999977	-57.69408417	-59.22204208	-61.38830185	-72.76898956	-58.34095927	-60.63510513	-62.0835495	-62.06861877	-62.7963904	-73.17079163	-63.01678925										
87.4999977	-57.94505692	-59.12174225	-61.26592255	-73.19084167	-58.67246246	-60.93245697	-62.1515274	-63.92963028	-63.93730453	-74.89868546	-63.55063055										
89.9999977	-56.4531525	-58.57934952	-61.20926285	-73.74701309	-58.73810959	-59.74984741	-62.54151535	-64.46328354	-64.09152222	-71.67767899	-63.4549805										
92.4999977	-56.59247208	-58.12322617	-62.16525269	-73.08263779	-58.97546387	-58.81609344	-63.72924805	-62.88772202	-63.74391174	-74.27178955	-63.23878174										
94.9999976	-57.74152756	-58.71199036	-63.87050629	-72.42941666	-60.39471253	-60.4031161	-63.08021545	-61.7264206	-64.50429916	-73.20962906	-63.54255142										
97.4999975	-57.80530167	-59.77080536	-64.30936813	-72.83859253	-60.9949417	-61.33449173	-62.63500977	-61.2849617	-64.83533478	-73.15326691	-63.83666267										
99.9999975	-58.34368134	-59.58000183	-65.5913353	-71.73682022	-59.64653778	-61.21890622	-62.97835541	-61.76405334	-64.1245575	-72.2024765	-63.71867828										
102.499997	-59.2433815	-59.23110082	-67.23161316	-71.53816986	-59.58281886	-61.3007164	-61.95220184	-62.72967148	-63.06451416	-72.10402679	-63.80735779										
104.999997	-58.5735321	-59.35504913	-68.20757294	-72.24912643	-60.08612442	-61.09830556	-61.70951462	-63.16056061	-63.93202499	-73.77740479	-64.16092186										
107.499997	-58.2991066	-60.11033249	-68.76079178	-72.43393707	-58.81409454	-61.02545547	-62.51965332	-64.08370209	-63.84715271	-75.15447617	-64.30487022										
109.999997	-58.9846268	-61.07016754	-64.74384689	-72.11894608	-58.97009277	-59.7901535	-63.21943665	-63.24609756	-63.72796249	-74.09772873	-63.99828949										
112.499997	-59.0989902	-60.48107147	-64.0878067	-71.72334671	-60.62340546	-59.80521011	-62.42935181	-62.96665955	-64.11600494	-72.58140564	-63.79132614										
114.999997	-59.00014877	-60.2676239	-63.82902527	-71.37699509	-61.63789322	-60.73039627	-62.30190277	-64.25065994	-64.4100914	-71.90509662	-63.94353902										
117.499997	-58.58073044	-61.06494904	-66.37298203	-71.88376236	-62.10485077	-61.32539368	-62.94176483	-64.88696289	-65.05776596	-72.13761139	-64.63567374										
119.999997	-57.72607422	-61.16559219	-68.53192902	-72.85380554	-61.88548486	-62.64473343	-63.64688492	-64.30299759	-65.20096997	-72.3576889	-65.0316124										
122.499997	-58.88669586	-61.09497452	-67.03243256	-72.71422577	-60.86736679	-62.58999334	-63.53547668	-64.18818665	-65.06879425	-71.94213867	-64.79201851										
124.999997	-60.99619947	-61.10395342	-66.74159241	-72.99962997	-60.87525558	-63.61495209	-64.64369965	-64.0884552	-66.14578247	-71.80920029	-65.30193214										
127.499997	-61.74571627	-66.86182022	-73.9158783	-66.86182022	-60.45256958	-63.04869843	-66.23639297	-64.52125555	-67.18347549	-72.44490905	-65.65122223										
129.999997	-60.2953499	-61.4420433	-66.77155304	-73.94633865	-59.94527817	-63.16110229	-64.99492264	-65.08408737	-65.9531356	-73.21793747	-65.48111774										
132.499997	-59.36218262	-60.78075027	-67.04500198	-73.25728989	-60.48377609	-61.38385773	-64.14072037	-65.20523071	-65.52627563	-73.61725235	-65.08023376										
134.999997	-59.2712856	-60.66176605	-64.9694211	-73.02614594	-60.08586884	-61.5259285	-63.68689346	-65.2654874	-65.75664902	-74.11181641	-64.77883228										
137.499997	-59.59418106	-60.77750778	-68.92091214	-73.33216095	-59.96435547	-64.03750229	-64.03203583	-65.24452972	-64.93927125	-73.920565	-64.85262623										
139.999996	-59.02520752	-60.92443085	-61.92642212	-73.73918152	-59.44813919	-63.69405746	-65.52171707	-65.06042862	-64.42421341	-73.18064499	-64.69444427										
142.999996	-59.92448044	-61.42155838	-63.91612244	-72.84344482	-60.31330872	-63.55165482	-66.44367218	-64.26032257	-65.57805252	-72.83063939	-65.00887102										
144.999996	-60.74182079	-61.52254868	-67.85000299	-73.13144302	-61.54384232	-63.05044637	-66.80387115	-64.51945877	-65.21621323	-72.63087158	-65.63067138										
147.499996	-60.52978897	-61.15236822	-68.80695343	-73.4141655	-61.67285899	-62.7235363	-66.82976532	-64.26270294	-65.54390717	-72.2012634	-65.6956192										
149.999996	-60.95021439	-61.25810623	-65.74607849	-73.05615997	-61.1227951	-61.82738495	-66.43927002	-64.17142105	-65.48364258	-71.81059647	-65.18566693										
152.499996	-61.17602921	-61.43687439	-65.13410568	-72.42742538	-60.60842514	-62.04262924	-65.89696884	-64.38947678	-65.59315109	-72.12339886	-65.08404846										
15																					

252.4999994	-62.55379105	-62.58200455	-66.49867249	-72.72420883	-63.5019722	-64.56506348	-66.84441376	-66.74356461	-66.71564102	-72.980793	-66.5710125
254.9999994	-61.66987857	-62.14761353	-69.33905043	-72.18852615	-62.59436798	-67.04508209	-66.58267975	-67.06249619	-66.85113907	-73.34689331	-66.8828186
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259.9999993	-63.00411987	-62.34190369	-69.23141479	-72.22165298	-62.30389786	-66.59585953	-66.04940796	-69.07076263	-67.40600967	-73.53585434	-67.17608833
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917.499966	-66.2580452	-65.32282466	-70.20895386	-72.06213379	-66.57582092	-69.26469421	-68.94198227	-70.9301796	-71.26786041	-71.57328965	-69.24062523
919.999998	-66.20375824	-65.42744064	-70.80681992	-73.28413391	-67.31655121	-67.74501419	-68.36452103	-71.0295105	-71.20726776	-71.61223984	-69.29972572
922.499966	-66.52352905	-65.1307373	-70.30583191	-72.69235992	-67.33272934	-67.95260402	-69.16948318	-70.44023514	-70.53768158	-73.56453893	-69.30308868
924.999998	-67.36473846	-65.1884346	-69.8619194	-72.92186773	-67.20708466	-68.94340515	-69.77746277	-70.0641861	-70.18864059	-72.79401443	-69.52817535
927.499966	-67.42189789	-64.93438721	-70.98607635	-73.3776741	-66.78299332	-69.19219589	-70.16537857	-70.46679688	-70.43189621	-72.91859055	-69.6677887
929.999998	-67.91081619	-65.36944962	-70.76860428	-72.23260498	-66.69527287	-69.87583542	-70.93931961	-71.37457657	-71.31613159	-73.09929276	-69.98393593
932.499966	-68.07080078	-66.0868354	-69.32043839	-71.7594986	-66.88484879	-69.86184692	-71.21673584	-70.72789993	-72.07789993	-73.06843567	-69.9999746
934.999998	-67.13408279	-65.3676796	-69.12066269	-72.80419159	-66.01043013	-69.27959824	-70.79426956	-71.24399185	-72.383		

LED MODEL:OSB5A3131A													LED COLOR:BLUE			Is=5.00[mA]		data is 32 points AVG (SUM)	
Frequency f[Hz]	Output noise											AVG Output noise Ena[dBv]							
	sample1 En1[dBv]	sample2 En2[dBv]	sample3 En3[dBv]	sample4 En4[dBv]	sample5 En5[dBv]	sample6 En6[dBv]	sample7 En7[dBv]	sample8 En8[dBv]	sample9 En9[dBv]	sample10 En10[dBv]	Output noise Ena[dBv]								
0	11.03656006	11.55499268	11.04090881	11.01126099	11.03434753	11.53511047	11.03213501	11.02760315	11.50729337	11.03135681	11.18115692								
2.49999994	7.593147278	8.111541748	7.597541809	7.567749023	7.590919495	8.091674805	7.5887146	7.58428516	8.063919067	7.578760107	7.73729645								
4.99999988	-3.487640381	-2.96938324	-3.482803345	-3.513656616	-3.48979187	-2.989105225	-3.491943359	-3.496147156	-3.016586304	-3.493507385	-3.343056488								
7.49999981	-25.66504027	-25.14756012	-25.65045166	-25.69508362	-25.662117	-25.16265106	-25.67838201	-25.66503906	-25.18942261	-25.67295074	-25.51744614								
9.99999975	-70.64626694	-71.80159378	-72.22397995	-72.20333862	-72.26633835	-73.38302612	-73.133564	-71.7208519	-72.05832672	-73.26063156	-72.26979179								
12.4999997	-71.7653923	-72.81312943	-72.15325546	-72.16740799	-72.63430786	-72.66091919	-72.711166992	-72.08707428	-72.08755112	-72.23111725	-72.33118248								
14.99999966	-72.29088593	-74.17601776	-73.51420212	-72.55970764	-73.6033287	-71.89547348	-72.54845428	-71.74316788	-72.24201584	-71.79427719	-72.63675308								
17.4999996	-72.11205673	-74.00021362	-72.70883179	-73.94804001	-72.57328796	-72.08603287	-72.28634262	-72.03682327	-72.01359177	-72.76205826	-72.65272789								
19.99999955	-72.19924545	-73.82139969	-71.95174026	-73.73361206	-71.98198318	-72.39672852	-72.19578934	-72.62169647	-72.35104752	-73.04206467	-72.62953072								
22.49999954	-72.76416397	-74.09092331	-72.44812393	-72.60078049	-72.24959183	-72.48020223	-72.81781006	-72.41732407	-71.76596832	-72.92363358	-72.65623398								
24.9999994	-72.65829468	-73.20425034	-72.73568726	-73.00439835	-72.30361557	-73.07801985	-72.56035614	-72.29386139	-71.7206192	-73.25150299	-72.73034058								
27.4999993	-71.97281265	-73.13292694	-72.1256752	-73.24542236	-72.41782761	-73.57902145	-73.02148819	-72.73029709	-71.81280518	-73.76329803	-72.78015747								
29.9999992	-72.09196006	-73.62258911	-71.85404205	-72.71996826	-72.92964554	-73.78349686	-72.98335648	-71.88551102	-73.2706337	-72.74895973	-72.74895973								
32.4999992	-72.18668747	-73.8517952	-72.35506058	-72.73256302	-73.19897842	-74.33018494	-72.93137376	-71.7822876	-72.2169838	-72.6205436	-72.7866169								
34.9999991	-72.45198441	-73.77201843	-73.66601181	-72.75589752	-72.53711319	-73.06098401	-73.45819092	-72.29724503	-72.4381218	-72.28056717	-72.87180443								
37.4999991	-72.64168167	-72.79338455	-73.97351456	-73.25800705	-72.27399133	-72.0754776	-73.01634598	-72.98839951	-73.35062408	-73.18019867	-72.5515625								
39.999999	-72.46276093	-72.95685196	-73.27171326	-72.9658432	-72.96857452	-71.99481583	-72.21057892	-72.48683167	-73.05762863	-73.59181595	-72.79671419								
42.4999989	-72.66743851	-72.13320923	-73.38390732	-72.00163269	-73.4053421	-72.9254189	-71.90005875	-71.73724365	-72.13566671	-72.81834412	-72.5056257								
44.9999989	-73.38863373	-71.10107422	-73.14236069	-72.08670425	-72.43503189	-72.84547424	-72.39023972	-72.20166397	-71.64216614	-73.06190491	-72.42952538								
47.4999988	-73.54386139	-71.1912123	-72.64795685	-73.39413452	-71.67172784	-73.01720047	-72.94139862	-72.03140259	-71.7284424	-73.06110382	-72.52339516								
49.9999987	-72.5685997	-72.67292462	-73.03081512	-73.70078659	-71.86411285	-72.35784149	-73.20419963	-71.94068527	-72.41122818	-71.7651329	-72.55156937								
52.4999987	-72.27515793	-73.5055237	-74.92709732	-73.00455093	-72.86607361	-71.08168793	-73.41492081	-72.40044022	-72.12656784	-71.83927917	-72.74863281								
54.9999986	-72.74168396	-73.4643364	-74.10708237	-73.00346756	-72.27033997	-70.9515895	-73.68100357	-72.18071218	-72.7557983	-72.87334778	-72.80334778								
57.4999985	-72.95742416	-72.75512314	-71.8252182	-72.6169014	-71.6920731	-71.89657593	-74.25957108	-72.44376373	-72.08306503	-73.11816788	-72.56550179								
59.9999985	-72.19429398	-73.14012527	-70.96545029	-72.65450287	-71.40802765	-72.32011414	-74.23794556	-73.49691772	-72.2576523	-73.752285	-72.63954277								
62.4999984	-71.35017014	-73.83435822	-72.02387238	-73.13328934	-71.4079895	-72.30090332	-73.23457718	-73.55481951	-72.70301819	-74.85626984	-72.83989296								
64.9999984	-71.30098338	-73.85585785	-74.12340927	-71.77928162	-71.87135696	-72.17854891	-72.60572815	-72.29465103	-72.99181366	-73.63780212	-72.6643497								
67.4999983	-71.17670828	-73.67709732	-74.61528015	-71.27025604	-72.42187119	-72.59600607	-71.98781967	-71.91653061	-72.81768036	-72.64682007	-72.51260643								
69.9999982	-71.29128265	-73.00425272	-72.1964035	-72.71112714	-73.03524017	-73.27722168	-72.42278671	-72.81055832	-72.21451569	-72.09168625	-72.50556792								
72.4999982	-72.12012482	-72.95952164	-71.14670944	-73.55346298	-73.16237259	-73.91625958	-73.82717514	-72.01268005	-71.30046463	-72.62365952	-72.78632952								
74.9999981	-72.46711349	-72.53899384	-71.8217926	-72.8192749	-73.26560211	-72.86779785	-72.83353424	-72.67656708	-72.72937012	-71.62288829	-72.56427345								
77.499998	-72.43927002	-73.44915009	-72.69536972	-72.07606888	-73.2228508	-71.86585481	-72.04585648	-73.6479187	-73.16600418	-73.04786682	-72.76560407								
79.9999979	-72.63241577	-72.95862198	-73.38553619	-72.26105499	-72.7622757	-71.46259308	-71.94164276	-73.55150146	-72.94872284	-73.21465475	-72.81464195								
82.4999979	-72.54341888	-72.6163063	-72.64002991	-72.60997009	-72.44574356	-72.23274231	-71.87556076	-73.82962036	-72.88139343	-72.61318207	-72.62879667								
84.9999979	-72.75630569	-73.09000778	-71.53507614	-72.92605048	-71.94906616	-72.74171571	-71.1427269	-73.60900116	-72.731373291	-72.61162796	-72.60939675								
87.4999978	-73.08156204	-72.09057999	-72.02924347	-73.78252029	-71.31499127	-72.77143478	-70.66143799	-73.01124954	-73.54794693	-73.44044876	-72.57309151								
89.9999977	-72.41194534	-71.16827393	-72.82841142	-73.73007584	-72.15004241	-72.45848846	-71.98392868	-72.26615143	-73.56514359	-72.03959676	-72.45867924								
92.4999977	-71.70077896	-72.11750031	-72.27029037	-72.36446762	-73.04954529	-72.58149338	-73.68759155	-72.07524109	-73.39312363	-72.15596008	-72.53959923								
94.9999976	-72.46505737	-72.70463943	-71.98595428	-72.53974915	-73.02671051	-72.73239544	-72.79240036	-71.98946762	-73.1501236	-72.29453278	-72.56819305								
97.4999975	-72.9383811	-72.17560577	-71.96483994	-73.62925272	-74.10760576	-72.34265137	-72.61662674	-72.25240707	-73.06375122	-72.13195038	-72.72567967								
99.9999975	-72.04120255	-72.54730225	-71.90813828	-72.79948425	-74.13739014	-72.69114442	-72.47815323	-73.03866394	-72.56780145	-72.76181313	-72.64171718								
102.499997	-71.18441722	-72.94087219	-71.91638947	-72.04854202	-73.47747803	-73.93917465	-71.74278688	-73.30349897	-72.76850877	-72.90893173	-72.62120073								
104.999997	-72.04105377	-73.04464793	-71.85043335	-71.89334106	-72.74481964	-73.04728317	-72.32101822	-72.8864288	-73.40103531	-72.67177582	-72.63038712								
107.499997	-72.61037445	-73.49491501	-71.83185577	-71.62557602	-72.62030792	-73.15843582	-73.21658707	-72.70307541	-72.7776413	-72.7776413	-72.66161919								
109.999997	-72.02597999	-72.62449265	-72.06550598	-72.31733704	-72.50881195	-72.45564651	-73.43492126	-73.42288589	-72.43514252	-72.62814713	-72.59188309								
112.499997	-71.54374695	-72.04630332	-72.23604202	-73.23882294	-72.80438232	-71.54351586	-72.33934784	-72.50700378	-73.23373795	-72.22498322	-72.37174492								
114.999997	-71.50073284	-73.23710632	-72.47363281	-73.1942859	-72.71088791	-71.82258896	-71.98198318	-72.03828274	-73.5844421	-71.9228096	-72.6194466								
117.499997	-72.19514847	-72.52204514	-71.82875826	-72.93829346	-72.79434586	-72.20263672	-72.92391586	-72.21725082	-73.44795609	-71.96318054	-72.52923672								
119.999997	-71.87757874	-71.3242569	-71.70842636	-73.39524078	-73.345047	-72.93218231	-72.4477272	-71.99165726	-73.33182526	-72.53895569	-72.50128925								
122.499997	-72.10221863	-71.52863312	-73.3636322	-73.40209198	-73.86608429	-72.97283173	-71.96613312	-72.01390457	-72.98771286	-73.54670334	-72.7549948								
124.999997	-72.22963715	-71.81135941	-73.85467529	-73.76692092	-73.75536346	-73.31663513	-72.20718384	-72.49422455	-72.22863388	-73.05586243	-72.87204781								
127.499997	-71.65636826	-72.25280762	-72.84602356	-74.45979309	-73.62883762	-73.71451187	-72.42494022	-72.15026474	-72.18373108	-72.13073349	-72.78160133								
129.999997	-71.85717773	-72.68419266	-72.119111774	-73.83816528	-73.36662564	-72.90090799	-73.21955109	-71.74855423	-72.00445175	-71.90485001	-72.56455879								
132.499997	-71.70471954	-72.66405106	-71.88301086	-72.32211304	-72.72529221	-72.48030549	-73.74871063	-72.03129959	-72.02988846	-71.75975925	-72.33671591								
134.999997	-71.35840988	-72.67059708	-72.60418701	-71.20103073	-73.38693237	-72.8938179	-73.52048874	-72.90081024	-72.53315353	-72.38083267	-72.50502602								
137.499997	-71.64782715	-72.8556633	-73.1761967	-71.75920105	-72.80994034	-73.36840057	-73.13286972	-72.28131104	-72.2349205	-73.72588314	-72.74566808								
139.999996	-71.94649887	-72.96356964	-72.78811264	-72.35431671	-72.01207733	-74.28326797	-73.27890396	-73.00127792	-73.08566666	-73.58748245	-72.93011742								
142.499996	-72.24777603	-72.92080472	-71.84754501	-71.81214523	-72.25124825	-73.11258412	-71.96210098	-73.55036926	-72.72802734	-73.03998831	-72.49913826								
144.999996	-72.19986487	-72.33879089	-71.911104126	-71.9599692	-72.86029816	-71.77988434	-71.28848648	-72.68280006	-73.19579697	-71.35236385	-72.08657074								
147.499996	-72.36114774	-71.79373169	-73.28639884	-72.1545627	-73.75007248	-71.95471573	-71.65438843	-72.25906754	-73.47392273	-71.08193588	-72.37705833								
149.999996	-72.88510132	-71.69096375	-72.91827011	-73.43087769	-71.41388779	-73.24246597	-72.19249725	-72.6085297	-72.86859512	-72.6847595	-72.77197979								
152.499996	-73.93208947	-72.25717163	-73.06359863	-74.31498337	-73.0955162	-72.89842987	-72.02855301	-73.14560699	-72.378086										

252.999994	-71.94445801	-72.94978333	-72.16484451	-72.04150009	-73.15050507	-73.52334595	-72.37408066	-73.06406403	-73.19357681	-71.81463623	-72.62207947
254.999994	-71.94613266	-73.89031601	-73.40814209	-72.70607376	-74.06634521	-71.82536316	-72.8533783	-72.53907776	-73.06317139	-72.59198796	-72.88898979
257.499993	-72.73218155	-73.77614186	-73.77614186	-71.96292114	-73.48429871	-72.1117897	-73.36512375	-72.48693085	-72.57612228	-72.78067961	-72.90540276
259.999993	-73.91422653	-73.36684418	-73.75443649	-71.75762177	-72.25392151	-73.22568512	-74.41764832	-72.20421982	-72.23555374	-72.24316025	-72.93733177
262.499993	-73.96838379	-74.17386699	-73.23762131	-72.20940781	-72.64003754	-72.94429779	-73.96665192	-72.16223907	-71.80316544	-71.57812881	-72.86883202
264.999993	-73.61004639	-74.55324936	-72.53104041	-72.78264618	-73.34402084	-72.39929589	-74.17440414	-73.36411667	-71.82040024	-71.35889816	-72.99381218
267.499993	-73.06483254	-73.16883835	-72.17962512	-73.042099	-71.84617074	-72.50906268	-73.88088226	-73.61815262	-72.55386353	-71.4083252	-72.6906791
269.999993	-72.04697439	-72.61015892	-71.84806442	-73.33359909	-71.14477635	-72.75690903	-73.30244064	-72.95582962	-73.20212173	-71.66292953	-72.91393556
272.499993	-72.03619003	-73.17084885	-72.65668106	-72.36174393	-71.65769858	-73.02175522	-71.51375198	-72.24827194	-72.77346039	-71.46495438	-72.29053574
274.999993	-72.79293823	-72.55870056	-72.71062469	-72.27232151	-72.23509216	-72.42056656	-70.48760986	-72.2566185	-72.41049957	-71.97979736	-72.2125679
277.499993	-72.80562592	-71.27978897	-72.36745071	-72.91432953	-72.74422028	-71.51925278	-71.40602493	-72.70837021	-72.48443604	-72.38559341	-72.23450928
279.999993	-72.70549774	-71.62919617	-71.97199249	-73.20955276	-72.53009033	-71.77151108	-72.81572723	-73.44065094	-73.18475342	-71.80200577	-72.50609779
282.499993	-73.79329681	-72.88459015	-73.52059937	-73.89069366	-73.19589996	-72.73916626	-72.20749664	-72.98896027	-74.15270233	-71.18254852	-73.05559554
284.999993	-74.84917895	-72.67529678	-73.96132666	-73.23519135	-74.34774017	-72.56563107	-71.96790695	-72.24040222	-74.20750427	-71.60289559	-73.16457877
287.499993	-74.9027634	-71.81529617	-72.75282669	-73.37076569	-73.74456406	-71.64846008	-72.22319794	-72.57851028	-73.9608154	-72.95864105	-72.91988198
289.999993	-73.02464294	-72.19434357	-72.03670502	-74.27838135	-72.75621033	-71.96777725	-72.14352798	-72.33718491	-74.38315964	-72.71063995	-72.78325729
292.499993	-73.0201149	-72.37145996	-71.81069655	-75.13710403	-72.71253586	-73.52259445	-72.3380394	-72.50061798	-74.66557748	-71.52705765	-72.96047974
294.999993	-74.5844841	-72.17928696	-72.68523026	-73.77734756	-73.49882126	-74.35665253	-72.17447281	-72.65009308	-73.5952377	-72.4709176	-73.16736641
297.499993	-75.3313446	-72.82290649	-73.87409448	-72.87207794	-73.50838089	-72.93606757	-73.01762009	-72.66112518	-73.74902344	-72.45314407	-73.32832642
299.999992	-73.12491608	-72.80626668	-74.69564438	-72.633564	-72.15668488	-72.31087875	-73.01115417	-73.54473114	-73.68448257	-73.91383362	-73.14565163
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637.999984	-72.83858109	-74.94200897	-70.96215439	-73.38477325	-71.74872971	-71.94116592	-73.50910187	-73.66044235	-72.39344788	-73.70049286	-72.98089923
639.999984	-73.0083046	-74.2349205	-71.51475525	-73.12313712	-72.57294464	-71.46935272	-73.37347794	-72.57294464	-72.31724796	-73.62662506	-72.96802843
642.999984	-73.05499776	-73.89305496	-73.400130844	-73.24582672	-73.58164948	-70.99502563	-72.55082702	-72.88354111	-73.69078445	-73.76715705	-73.03664184
644.999984	-73.1758461	-73.12796402	-73.44220734	-73.24135559	-73.45780945	-72.07702033	-71.9027977	-73.13135529	-75.46478271	-73.26742783	-73.23932887
647.999984	-72.85235214	-72.21802139	-72.97727203	-73.22581863	-73.02893066	-74.28941345	-71.98014557	-72.36968231	-75.02252579	-72.61916351	-73.04633255
649.999984	-73.2310258	-71.82355118	-72.47346115	-72.98421097	-73.5882988	-73.3285675	-72.7461319	-71.80896759	-73.43672943	-72.25683594	-72.76778609
652.999984	-73.37728224	-72.02299881	-72.66476822	-72.92698288	-72.79489681	-72.385025	-73.91872406	-72.17756271	-72.80429077	-71.97133688	-72.69036885
654.999983	-72.60752869	-72.57474136	-72.68829346	-73.01042938	-71.82175064	-72.20049667	-74.28111267	-73.1822052	-72.66283417	-71.79649582	-72.64992991
657.999983	-71.52505875	-72.83334732	-71.86963654	-72.64323425	-71.98970795	-72.38993365	-73.60935211	-73.11156082	-72.39494857	-71.49694897	-72.41632843
659.999983	-70.9083776	-72.36512039	-71.64604187	-71.93654477	-71.43425369	-72.83243462	-73.19339752	-70.89478683	-72.57607651	-72.63474655	-72.04416962
662.999983	-71.98857118	-72.58242371	-71.72102432	-71.52493667	-71.78753662	-71.78645942	-72.02434921	-71.30764008	-72.72104121	-71.56847	-71.89442798
664.999983	-72.57371902	-72.75593185	-72.87862015	-71.98511505	-71.59645081	-71.29079056	-71.64163971	-72.80408096	-72.56977463	-71.27074432	-72.13668671
667.999983	-72.53466419	-73.15927887	-73.54709625	-72.80638504	-71.57269989	-72.1941815	-72.0339219	-73.2049561	-72.66452789	-72.88395691	-72.67225151
669.999983	-72.7664299	-73.53514481	-72.7442627	-72.80467606	-71.26416016	-72.93280524	-72.91538239	-72.92549896	-73.1609993	-72.6891098	-72.72794693
672.999983	-72.6508522	-73.08140564	-71.71514893	-71.87798309							

777.499966	-72.72824478	-72.15617371	-72.03821945	-72.38783264	-72.96646881	-72.94548035	-72.07258224	-73.8418045	-73.86791611	-73.03679276	-72.80415154
779.999998	-72.06937408	-72.43663488	-72.39462662	-71.84174728	-72.33886337	-72.63738251	-73.14371109	-73.91420364	-72.88130188	-72.40940094	-72.60671463
782.499966	-72.87952423	-72.61186218	-72.86400604	-71.96884918	-71.64261627	-71.64861679	-73.09190369	-73.48463344	-72.99606628	-72.52492905	-72.55130081
784.999998	-74.24491119	-72.05439758	-72.71793747	-72.23981857	-72.05796432	-72.77308273	-71.92285156	-72.59290314	-73.28234863	-72.70090866	-72.65871239
787.499966	-73.89425659	-72.17449951	-71.52760696	-72.99544144	-73.73168182	-73.58223724	-71.85853195	-72.88130951	-73.92407608	-72.92753447	-73.93971809
789.999998	-73.74388123	-72.45271683	-71.61109924	-73.11702728	-73.80398941	-73.06616989	-71.90760422	-72.42309189	-73.30325317	-73.6214447	-73.03972400
792.499966	-75.14170456	-71.64475632	-72.40099716	-71.84399414	-72.48165131	-72.70498657	-72.16172028	-73.32281113	-73.37738037	-72.56619644	-72.76461983
794.999998	-75.41366577	-71.57663345	-72.51561356	-71.69357681	-71.81466293	-72.611166	-72.35580444	-73.65539169	-73.84767914	-71.5189476	-72.70036354
797.499966	-74.68394929	-72.93899536	-72.28076553	-71.68324661	-72.97142792	-73.30375671	-73.18945694	-73.68986511	-73.94139862	-72.12110519	-73.08040123
799.999998	-72.57685471	-73.38810349	-71.9119072	-71.23904419	-72.62979126	-72.0662879	-73.35224533	-73.70306015	-73.18168259	-73.49905014	-72.7548027
802.499966	-72.75991821	-73.22978592	-71.70035553	-71.92762375	-71.90863037	-70.89458084	-73.21414185	-73.2563591	-73.76423264	-73.19093704	-72.58465652
804.999998	-72.87718964	-72.94858551	-71.56140518	-72.81663132	-72.3773613	-71.44587326	-73.90581894	-72.78602982	-73.10361862	-72.73961639	-72.656213
807.499966	-73.18164444	-72.58279037	-71.51490402	-73.56177139	-72.01667023	-72.83834839	-74.01213837	-72.90389633	-72.57977676	-72.92907333	-72.81210136
809.999998	-73.22132492	-73.15266037	-71.77729797	-74.1485939	-72.27403259	-73.94811249	-72.56324768	-72.70288467	-72.50636292	-72.19074035	-72.84852119
812.499966	-72.33303452	-74.14321136	-72.27545166	-74.15372467	-73.23273849	-73.73701096	-72.29492188	-72.12118912	-72.59571838	-72.09114838	-72.89781494
814.999998	-71.0508461	-73.78947067	-71.35189056	-73.32167435	-72.84114075	-72.9544754	-72.20427322	-72.76366425	-72.51291656	-73.62181854	-72.64121704
817.499966	-70.86853409	-73.07848358	-71.16730499	-72.71153259	-72.07637024	-72.0651207	-72.30755234	-73.36082458	-72.53750229	-73.49105072	-72.36642761
819.999998	-72.8450469	-72.39868164	-72.34621429	-72.20252609	-71.59693909	-71.83642197	-72.34351349	-72.91897202	-72.83998489	-72.65863826	-72.35981407
822.499966	-72.80204391	-72.91525655	-73.07718277	-71.57493591	-72.46036911	-72.13902283	-72.64358902	-74.17908576	-72.74544144	-72.65992737	-72.71975640
824.999998	-72.3274231	-72.59892654	-72.92897415	-71.48057175	-72.86719513	-72.87793732	-72.75413895	-73.76664734	-72.45917168	-73.29877853	-72.73603096
827.499966	-71.98903543	-72.2705307	-71.8663815	-71.55030823	-72.56129837	-74.19592667	-72.43037033	-72.96894836	-72.82047653	-73.62562943	-72.62899055
829.999998	-71.7892952	-72.59563065	-72.15195847	-72.34831619	-72.38678741	-73.83765473	-72.76834111	-72.31089401	-72.49448395	-72.76986039	-72.76983651
832.499966	-72.29982758	-72.72655106	-72.82567596	-73.17448807	-72.78012466	-72.84489059	-73.3732535	-71.45607376	-72.7987175	-73.67999268	-72.79596672
834.999998	-72.7114563	-71.48093414	-72.65432358	-73.35506058	-72.81933212	-72.47470474	-72.09825897	-71.78348541	-73.02123642	-72.31922913	-72.42771707
837.499966	-73.35987473	-70.77717209	-72.66192245	-73.03079224	-72.06407928	-72.68172411	-72.28762054	-72.96601868	-71.86933899	-71.84152603	-72.35396146
839.999998	-72.72043991	-70.54343796	-73.19078827	-72.61686325	-73.16119003	-72.27584547	-72.60651779	-72.8596344	-71.78749466	-73.1472702	-72.4909481
842.499966	-71.62864685	-71.16128922	-72.40555191	-72.48612976	-74.14691925	-72.05902792	-73.06499481	-73.03859711	-71.81000137	-73.54603577	-72.3383194
844.999998	-71.7014389	-72.66628647	-71.42710495	-72.35832214	-73.37960815	-71.92261124	-73.07349777	-73.16432953	-71.70515442	-72.05271153	-72.34510689
847.499966	-72.53636551	-73.35993958	-71.63339996	-73.08646774	-73.68841934	-71.5646019	-72.46083069	-73.1607399	-72.04176331	-71.67188263	-72.52044106
849.999998	-72.54569244	-72.63317108	-72.77101517	-74.4298916	-73.48552322	-72.59087127	-72.12372589	-72.65101242	-71.90576553	-72.08338928	-72.72199384
852.499966	-72.40267181	-72.18745804	-73.560215	-75.13610077	-72.77108383	-73.91777802	-72.40424347	-72.25750351	-71.8395195	-72.97255707	-72.9449131
854.999998	-72.66298676	-72.86740112	-73.36315918	-74.12297821	-72.07722473	-73.22784424	-72.75025177	-71.7027092	-72.43250275	-72.93239975	-72.81394577
857.499966	-73.34052658	-73.0879631	-72.32444	-73.29182053	-72.95471573	-72.01570511	-72.70695877	-71.09291077	-73.27087402	-72.90480804	-72.69072211
859.999998	-73.55251694	-72.54151154	-71.77077103	-71.57838058	-73.96410596	-72.02502522	-72.47989655	-70.77423477	-73.04324259	-72.58496864	-72.47645717
862.499966	-73.35003281	-72.64503479	-71.66537476	-70.35090256	-73.29780197	-71.78549194	-72.30698013	-70.60710144	-72.87994385	-72.13593292	-72.10245972
864.999998	-72.80128479	-73.67092514	-71.99690375	-71.2169342	-73.1575373	-72.4408035	-72.09017563	-71.42878342	-72.28594208	-71.3874054	-72.24791995
867.499966	-72.2565918	-74.45196515	-73.4461174	-71.94248581	-72.29087067	-72.74783325	-71.94460297	-71.79428864	-72.0664444	-72.58379364	-72.55249887
869.999998	-71.90029526	-72.6668396	-73.25152206	-71.08911133	-71.71017456	-73.27743912	-70.99573898	-71.72974777	-73.51299286	-73.45033264	-72.35841942
872.499966	-71.25348663	-71.26094055	-72.28371811	-71.30294418	-71.77162552	-72.3518992	-71.12081909	-71.52909088	-72.63177872	-73.08683777	-71.85764131
874.999998	-71.36657217	-70.92929542	-72.10287094	-72.09578705	-71.80719757	-71.61102676	-71.96453094	-71.84440613	-71.16816711	-72.97319031	-71.78968544
877.499966	-72.46753411	-71.34467316	-72.8871096	-73.23279195	-72.13010025	-73.05719613	-72.45668411	-71.79602432	-72.45668411	-72.6139208	-72.72792818
879.999998	-73.76462173	-71.52467728	-72.30809402	-73.63531113	-72.42953491	-73.3975563	-72.65941238	-72.41001511	-73.48958206	-74.31550217	-72.99343071
882.499966	-74.07026672	-72.50728776	-72.71920284	-73.70395279	-71.56290917	-71.9646225	-72.52337265	-72.50397491	-73.20114136	-73.62457275	-72.78816605
884.999998	-73.199646	-73.16226578	-73.11301804	-73.1149559	-71.63879111	-71.6387911	-72.68515778	-72.86513138	-72.68992624	-72.89287657	-72.6637455
887.499966	-72.62823261	-72.85627365	-72.59838881	-72.38058472	-71.82596588	-72.89580536	-72.21081924	-72.53475189	-72.89204025	-71.959193802	-72.54154047
889.999998	-73.34730911	-72.88555908	-71.81129837	-72.06484985	-72.40034342	-73.59325027	-71.67543411	-72.97039032	-73.84891891	-72.92042872	-72.58075931
892.499966	-72.21238227	-73.31092834	-71.99348068	-72.00123978	-72.18226624	-73.47102356	-71.12400436	-72.45121765	-73.07589722	-72.4396286	-72.42620697
894.999998	-71.60552597	-73.00153351	-72.23892593	-71.60984421	-72.14141464	-72.33355713	-70.86848831	-71.68043518	-72.07635498	-73.16443634	-72.0205162
897.499966	-72.68737793	-72.61379623	-72.00351715	-71.06008148	-72.75479889	-72.82989093	-71.3463707	-72.05723953	-72.86623001	-72.96247536	-72.32825966
899.999998	-72.96757889	-71.81362915	-72.57133102	-71.03335571	-71.87088668	-72.49459076	-71.66559219	-73.40188599	-72.59487534	-73.3943367	-72.38080444
902.499966	-72.99331699	-71.83286667	-73.64048004	-71.42572403	-71.52899933	-72.22036362	-71.66440582	-72.96889299	-72.9874382	-73.26781786	-72.55032467
904.999998	-73.05227661	-72.98550034	-74.40174484	-71.91253281	-71.50504684	-72.72795624	-71.96641922	-72.75107925	-72.62931824	-72.56463669	-72.63213501
907.499966	-73.15439606	-73.79952621	-73.75750351	-72.20869446	-72.29600525	-72.12911954	-72.50073624	-72.24052429	-72.94601279	-73.05911255	-72.88828267
909.999998	-72.98196793	-73.61791611	-72.16070557	-73.14365005	-73.2851181	-71.98126556	-72.46884537	-71.91831589	-72.84798431	-74.25429535	-72.86400642
912.499966	-72.3176384	-72.73391342	-71.5307045	-73.03380585	-72.65977097	-72.14519882	-73.48288727	-71.59187317	-72.33525467	-73.43013763	-72.52611847
914.999998	-72.87501144	-72.25098419	-71.87797928	-72.84601212	-72.20425034	-71.385746	-73.63870621	-73.10184097	-72.47320266	-72.62625885	-72.5279111
917.499966	-74.23972702	-72.67276001	-72.18325424	-72.30656815	-72.25836945	-71.21161154	-72.23308182	-73.69711685	-72.04561996	-73.0825396	-72.59306526
919.999998	-73.10910797	-73.77362442	-72.69238281	-71.57381058	-73.07860565	-72.35261652	-71.82368398	-72.41469955	-71.5688362	-72.67050934	-72.50578995
922.499966	-71.69183731	-74.30135656	-73.44181442	-71.86485291	-72.02395652	-72.63712692	-72.2698828	-72.72130203	-72.14154816	-72.727867889	-72.53724823
924.999998	-71.57573138	-72.92361069	-73.07060623	-72.77217484	-71.71176285	-72.08726501	-73.24796295	-72.12141418	-72.64749146	-72.07191424	-72.42895126
927.499966	-72.06967926	-72.97976685	-72.52248383	-73.40009916	-71.95002365	-71.44827271	-72.83252335	-72.18707275	-72.5708313	-72.48059464	-72.44412575
929.999998	-72.28280003	-72.67415619	-71.26422501	-74.06402206	-72.37298844	-71.60164261	-71.81681442	-73.08007813	-72.85234451	-72.55207825	-72.44529377
932.499966	-72.13262939	-71.92471313	-71.18616486	-74.62783432	-72.26007462	-71.13307961	-71.1790123	-73.67034149	-72.22121811	-72.15009689	-72.24851666
934.999998	-72.23610306	-71.26942062	-73.36491394	-74.5							

Is=5.00[mA]

data is 32 points AVG (SUM)

Frequency f[Hz]	Output noise 10psc average					
	OSDR3133A Ena1[dBV]	OS5RKA3131A Ena2[dBV]	OSG58A3131A Ena3[dBV]	OSNG3133A Ena4[dBV]	OSUB3131P Ena5[dBV]	OSB56A3131A Ena6[dBV]
0	8.308851624	4.727711487	11.85927734	8.659173584	10.11607666	11.18115692
2.499999994	4.865446472	1.285051727	8.415879822	5.21574173	6.672722626	7.737729645
4.999999987	-6.215129089	-9.789302063	-2.664726257	-5.865001678	-4.406343079	-3.343056488
7.499999981	-28.38694992	-31.85524635	-24.83678055	-28.03959961	-26.50394135	-25.51744614
9.999999975	-74.78210831	-74.85161552	-72.47352028	-74.82153435	-53.52696953	-72.26979179
12.49999997	-74.71349068	-75.16000633	-72.87323799	-74.7990078	-54.69941216	-72.33118248
14.99999996	-74.90977135	-75.23433151	-72.87785149	-74.90718155	-55.44822197	-72.63675308
17.49999996	-74.9561245	-75.27671051	-73.02808495	-75.02511749	-55.9259449	-72.65272789
19.99999995	-74.87692528	-75.50781403	-73.29501648	-74.83132401	-56.72335739	-72.62953072
22.49999994	-74.76470604	-75.51762276	-73.0319603	-74.75662422	-57.51222191	-72.65623398
24.99999994	-74.85944519	-75.55771561	-72.63884735	-74.68007126	-58.46969528	-72.73034058
27.49999993	-75.10021439	-75.44812012	-72.77542343	-74.74475403	-58.82911835	-72.78015747
29.99999992	-75.07798271	-75.26611938	-73.17424927	-75.09515076	-58.70091629	-72.74895973
32.49999992	-74.88251877	-75.27773743	-73.22146988	-75.02153702	-58.8351181	-72.7866169
34.99999991	-74.96190071	-75.44424629	-73.16552773	-74.57390366	-59.06329422	-72.87180443
37.49999991	-75.0320816	-75.58955231	-73.06467056	-74.86898079	-59.18912697	-72.9515625
39.9999999	-75.02181549	-75.68399887	-72.8506691	-75.21090279	-59.66863251	-72.79674149
42.49999989	-74.92457848	-75.64809608	-72.94603691	-74.84198837	-60.17113914	-72.5055275
44.99999989	-74.58088493	-75.74430656	-72.80777588	-74.66785355	-60.52516289	-72.42952538
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