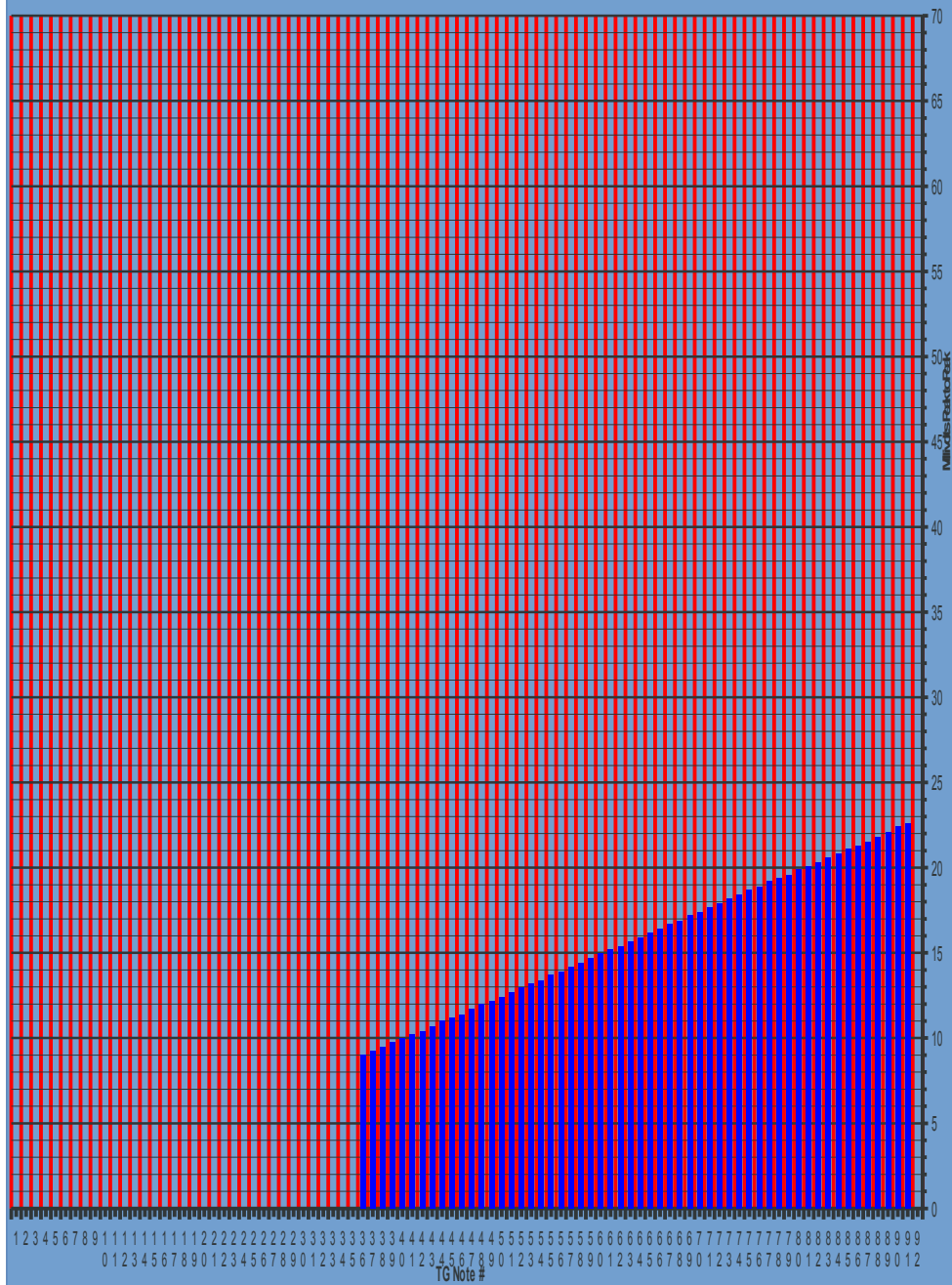


Bernardo's wax capped 1959 C3. Sn # 81101.										
Marin's 1961 wax capped C2.										
C-Oh's wax capped 1967 C3 Sn # 9329 Measured by Peter Fischer with Fluke 187 meter on 7 January 2017.										
Bernard's 197 C3 With red mylar capacitors. "Bright sound".										
Donald's 1940? Model D B2 mine TG Wax capacitors. Mellow sound with breath and growl. Measured with Iwatsu DS8248 Bridge I Digital oscilloscope.										
Markus's red mylar capped 1965 E-112. Sn. 1463. "Bright, harsh and nasal sound".										
Jim's red mylar capped H-133. Very bright high treble.										
Fernando's wax capped 1960 RT3. Serial # 5669										
Fernando's recapped 1960 RT3. Serial #6669										
11.53	10.00	13.10	9.70	0.00	0.00	5.90	13.70	13.70		
12.09	10.60	13.37	9.60	0.00	0.00	5.70	14.40	14.20		
12.32	9.90	13.60	9.90	0.00	0.00	5.60	13.50	13.50		
12.55	10.50	13.08	9.70	0.00	0.00	5.10	14.30	14.30		
12.55	10.10	13.14	9.80	0.00	0.00	4.80	13.50	13.50		
13.62	10.00	12.70	9.80	0.00	0.00	4.50	13.90	13.80		
11.60	10.30	12.70	10.40	0.00	0.00	4.30	13.30	13.20		
11.90	9.80	13.30	10.20	0.00	0.00	5.40	13.30	13.10		
12.08	10.20	13.00	10.20	0.00	0.00	5.10	13.50	13.50		
12.47	10.10	12.79	10.70	4.60	0.00	4.70	14.20	14.20		
11.76	10.30	12.45	10.00	4.54	0.00	4.60	13.70	13.40		
11.45	9.70	12.25	10.00	4.70	0.00	4.60	13.80	13.40		
4.94	4.60	4.84	5.00	4.40	4.40	4.70	6.70	6.40		
4.86	4.60	4.66	4.50	4.38	4.40	4.60	6.60	6.20		
4.35	4.30	4.79	4.50	4.52	4.40	4.60	6.60	6.40		
4.56	4.20	4.53	4.30	4.28	4.30	4.40	6.50	6.10		
4.31	4.20	4.27	4.20	4.38	4.40	4.30	5.30	6.20		
4.14	4.10	4.29	4.20	4.38	4.00	4.20	6.30	5.90		
4.17	3.90	3.95	4.00	4.26	4.00	4.10	6.20	5.80		
4.09	4.20	4.05	3.90	4.40	4.00	4.00	6.10	5.80		
4.02	4.00	3.99	3.70	4.62	4.00	4.00	6.20	5.80		
3.92	3.80	3.98	3.70	4.04	3.80	3.90	6.10	5.70		
3.94	3.70	3.91	3.80	4.48	3.80	3.90	6.00	5.60		
3.90	3.70	3.79	3.70	4.70	3.80	3.80	6.20	5.70		
3.90	3.70	4.06	3.70	4.74	3.90	3.65	6.00	5.70		
3.95	3.50	4.04	3.50	4.34	3.90	3.70	6.20	5.70		
4.14	3.50	3.74	3.60	4.44	3.80	3.60	6.00	5.60		
3.92	3.50	3.89	3.40	4.36	3.70	3.80	6.10	5.70		
4.17	3.40	3.78	3.50	4.66	3.70	3.80	6.40	6.00		
4.11	3.40	3.84	3.30	4.24	3.80	3.70	6.10	5.80		
3.93	3.40	3.82	3.50	4.14	3.80	3.70	6.00	5.60		
3.05	3.40	3.73	3.50	4.86	3.80	3.60	5.80	5.40		
3.66	3.20	3.61	3.60	4.30	3.80	3.60	6.00	5.60		
4.04	3.60	3.89	3.60	4.28	3.90	3.70	5.90	5.50		
4.14	3.90	3.67	3.50	4.08	3.80	3.70	6.00	5.60		
3.83	3.50	3.78	3.50	4.02	3.90	3.60	6.10	5.60		
4.67	3.40	3.96	3.70	4.48	4.50	3.90	5.90	5.60		
4.09	3.20	3.99	3.50	4.20	4.40	3.90	6.30	5.90		
4.05	3.60	3.88	3.80	4.14	4.40	3.90	6.10	5.80		
4.15	3.40	4.15	3.70	4.20	4.60	4.20	6.00	5.70		
4.33	3.90	4.16	3.80	4.12	4.40	4.10	6.50	6.10		
4.50	3.70	3.91	3.80	4.32	4.40	4.00	5.90	5.60		
4.44	3.30	4.06	3.90	2.56	4.40	4.10	6.20	5.80		
3.74	4.00	4.21	4.00	5.06	4.90	4.25	6.50	6.20		
3.97	3.90	4.02	3.80	5.00	4.40	4.20	6.30	5.90		
3.86	3.90	4.28	4.10	4.68	5.20	4.05	6.50	6.10		
4.16	4.90	4.50	4.10	4.96	4.60	4.30	6.20	5.90		
4.03	4.10	4.60	4.20	5.28	4.80	4.40	6.90	6.50		
2.23	3.00	3.29	4.60	2.78	6.00	4.60	5.50	6.20		
2.59	3.30	3.04	4.40	3.60	5.80	4.60	5.60	6.00		
3.09	3.30	3.79	4.80	3.82	5.60	5.10	5.40	6.10		
2.54	3.20	2.87	4.50	3.44	5.80	4.60	5.20	6.10		
2.79	3.60	3.02	4.70	3.44	6.80	4.70	5.60	6.30		
2.82	3.30	3.46	4.90	4.18	5.60	4.50	5.40	5.50		
1.74	2.10	1.50	4.70	3.90	6.70	5.10	5.00	6.50		
1.65	2.50	3.03	5.30	3.02	6.00	5.40	5.10	7.00		
1.97	2.20	1.59	5.70	3.28	5.80	5.00	5.10	6.80		
1.53	2.60	1.86	5.40	5.44	6.50	5.40	5.10	6.60		
1.70	2.50	2.57	5.50	5.26	6.60	5.25	5.10	6.20		
2.03	2.70	2.08	5.80	2.80	6.80	5.50	5.20	6.90		
2.04	3.10	2.75	6.10	2.72	5.30	4.20	5.30	7.60		
2.12	2.80	2.43	5.80	4.54	5.20	4.40	5.60	7.50		
2.11	3.30	2.57	6.00	3.00	5.80	4.25	5.10	6.60		
2.37	2.90	2.74	6.00	2.82	5.90	4.60	5.40	7.50		
2.16	3.00	2.58	5.50	3.52	6.10	3.60	5.40	7.20		
2.27	3.40	2.34	6.10	4.32	5.70	6.10	5.50	7.70		
2.72	3.40	2.82	6.30	4.92	6.60	3.95	5.90	7.90		
3.10	3.30	3.02	6.40	4.62	6.30	4.80	5.60	7.90		
3.16	3.30	3.75	6.30	5.48	6.90	5.10	5.70	8.10		
2.98	3.20	3.42	6.20	5.24	5.10	5.10	5.80	7.50		
3.03	4.10	3.32	6.80	5.22	6.60	5.00	5.60	7.40		
3.26	3.60	4.16	6.40	3.60	6.20	4.80	5.80	7.60		
3.22	3.50	1.97	8.20	4.68	7.00	3.50	5.20	7.60		
1.81	2.40	2.20	6.60	2.72	6.20	6.70	5.10	6.50		
2.22	3.20	1.92	7.30	2.84	6.50	6.20	5.00	6.60		
2.41	2.80	2.26	8.80	2.78	6.40	5.90	5.00	6.50		
2.71	3.00	1.95	6.70	3.22	6.90	6.90	5.00	6.40		
3.70	3.90	2.38	7.00	3.52	7.40	8.80	4.80	5.80		
2.36	3.10	2.10	7.00	4.38	6.50	6.70	5.20	6.60		
2.94	3.00	3.01	7.00	4.56	6.80	6.50	5.30	7.30		
2.63	2.20	2.22	5.50	4.04	6.80	7.30	5.10	6.90		
2.43	2.80	3.37	7.40	3.40	6.10	6.10	5.10	6.70		
3.17	3.30	3.41	6.40	3.40	6.50	7.40	5.10	6.20		
3.12	2.70	2.30	5.30	4.10	6.80	7.10	5.60	7.60		
2.50	5.10	4.51	6.60	4.02	8.20	5.00	5.70	8.30		
2.53	3.50	6.10	5.20	3.92	7.80	18.70	5.80	8.70		
3.19	3.10	3.08	4.80	3.98	7.80	23.30	5.20	6.50		
3.31	2.80	3.14	5.30	2.72	6.40	17.10	5.90	8.00		
3.31	3.10	4.60	4.80	6.44	6.50	20.10	5.00	5.80		
4.26	3.50	4.22	3.90	4.32	6.00	20.70	5.70	8.00		
3.00	4.50	3.79	4.70	5.17	7.00	22.10	5.00	5.70		
						22.30				
						23.00				
						35.50				
						39.40				
						48.10				

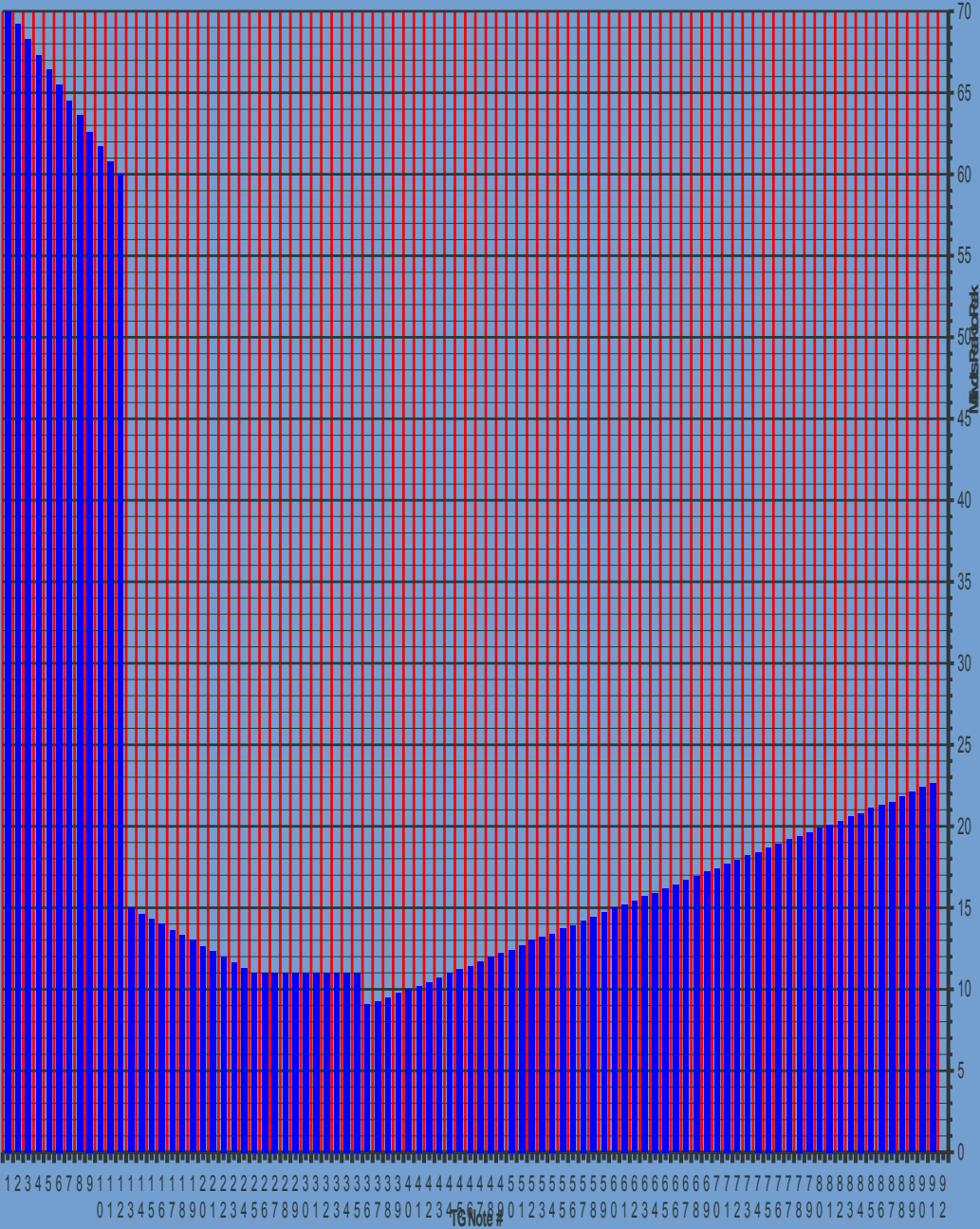
Measured Hammond spinet organs TG output levels in mV RMS

TG Note #															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	80.00	46.90													
2	74.00	44.70													
3	78.00	46.10													
4	80.00	45.90													
5	78.00	46.40													
6	71.00	47.60													
7	68.00	47.90													
8	76.00	50.30													
9	72.00	50.50													
10	74.00	49.90													
11	76.00	52.00													
12	74.00	53.70													
13	84.00														
14															
15															
16															
17															
18	4.10	6.20	3.80	3.90	3.90	3.90	4.50	3.90	3.90	5.05	5.40	4.49	4.48	4.2	3.60
19	3.95	6.00	3.60	4.00	4.00	4.00	4.40	3.70	3.70	5.03	5.35	4.30	4.31	4	3.70
20	3.90	5.80	3.50	3.80	3.90	3.90	4.20	3.50	3.70	4.99	5.33	4.07	4.09	4	3.80
21	3.80	5.60	3.60	3.90	3.90	3.90	4.30	3.40	3.80	4.97	5.31	4.10	4.12	3.8	3.60
22	3.80	5.60	3.50	3.80	3.80	3.80	4.20	3.50	3.50	5.02	5.37	4.02	4.03	3.7	3.50
23	3.65	5.80	3.50	3.70	3.80	3.80	4.20	3.50	3.60	4.97	5.31	4.06	4.07	3.6	3.50
24	3.70	5.40	3.50	3.70	3.80	3.80	4.00	3.40	3.30	5.08	5.42	3.98	4.00	3.6	3.40
25	3.40	5.60	3.20	3.90	3.80	3.80	4.00	3.50	3.20	5.00	5.39	3.86	3.88	3.4	3.30
26	3.55	5.00	3.30	3.80	3.80	3.80	4.00	3.10	3.20	4.98	5.36	3.82	3.85	3.3	3.30
27	3.45	5.20	3.30	3.80	3.80	3.80	4.00	3.10	3.40	4.98	5.38	3.71	3.73	3.3	3.20
28	3.45	5.00	3.20	3.70	3.80	3.80	3.00	3.10	4.96	5.34	5.34	3.74	3.76	3.3	3.20
29	3.42	5.40	3.30	3.60	3.60	3.60	3.70	3.00	3.10	5.00	5.42	3.80	3.81	3.3	3.20
30	3.85	5.50	3.30	3.80	3.80	3.80	3.70	3.20	3.00	4.96	5.37	3.63	3.64	3.4	3.10
31	3.40	5.40	3.10	3.80	3.40	3.40	3.80	2.90	3.00	4.97	5.33	3.57	3.59	3.2	3.10
32	3.60	5.20	3.20	3.80	3.60	3.60	3.90	3.00	2.80	5.00	5.37	3.55	3.59	3.2	3.10
33	3.40	5.40	3.20	3.80	3.60	3.60	3.80	3.00	2.90	4.96	5.34	3.47	3.49	3.2	3.00
34	3.50	5.10	3.20	3.80	3.50	3.50	3.80	3.10	1.70	5.01	5.52	2.21	3.83	3.2	3.10
35	3.40	5.60	3.20	3.80	3.70	3.70	3.80	2.90	3.00	5.02	5.49	3.71	3.74	3.3	3.00
36	3.50	5.40	3.20	3.90	3.80	3.80	3.90	2.90	2.90	4.99	5.40	3.72	3.76	3.4	3.10
37	3.60	4.20	3.30	4.10	3.20	3.20	4.10	3.00	2.60	5.03	5.43	6.12	4.00	3.4	2.80
38	3.55	5.40	3.30	4.00	3.80	3.80	4.10	2.80	2.70	5.00	6.09	4.12	3.87	3.6	3.10
39	3.60	5.20	3.30	4.30	3.80	3.80	4.10	3.20	2.70	4.97	6.10	3.60	3.99	3.4	2.80
40	3.55	6.00	3.30	4.10	3.80	3.80	4.10	2.80	2.90	4.98	6.05	6.80	3.77	3.5	3.00
41	3.65	5.60	3.30	4.20	3.80	3.80	4.10	3.10	2.90	5.07	6.10	5.40	3.95	3.8	3.20
42	3.85	5.60	3.50	4.40	4.10	4.10	4.00	3.00	2.90	4.96	5.88	3.87	4.00	3.7	3.00
43	3.80	5.80	3.50	4.40	4.00	4.00	4.30	3.10	3.00	4.98	5.97	5.94	4.09	3.9	3.20
44	3.60	4.50	3.20	4.40	3.90	3.90	4.20	3.20	3.10	4.97	5.80	6.49	4.19	3.8	3.10
45	3.60	5.80	3.40	4.40	4.00	4.00	4.50	3.20	3.20	5.04	5.87	6.57	4.19	3.8	3.30
46	3.60	5.80	3.40	4.50	4.30	4.30	4.50	3.40	3.20	4.99	5.78	4.40	4.45	4	3.30
47	3.80	5.90	3.40	4.70	4.20	4.20	4.60	3.30	3.20	4.98	5.72	7.19	4.51	3.9	3.40
48	3.80	6.20	3.60	4.80	4.40	4.40	4.95	4.70	3.50	4.91	5.60	6.68	4.54	4.2	3.60
49	4.55	5.60	4.20	2.90	4.40	4.40	4.90	3.30	3.10	4.89	6.40	4.43	4.59	4.25	3.10
50	4.40	8.00	4.20	2.90	4.80	4.85	5.10	3.00	2.90	4.84	6.48	4.82	4.82	4.3	3.40
51	4.50	6.50	4.30	3.60	5.00	4.80	5.30	3.40	2.70	4.76	6.48	4.83	5.00	4	3.20
52	4.40	8.00	4.30	3.40	4.80	4.75	5.30	3.00	2.80	4.75	6.38	5.05	5.06	4.3	3.40
53	4.85	8.00	4.60	3.40	4.90	4.70	5.40	3.90	3.10	4.71	6.56	5.56	5.60	3.4	3.50
54	5.00	6.80	4.60	4.30	5.40	4.65	5.40	3.60	3.70	4.57	6.18	5.01	5.03	4.6	3.50
55	5.00	6.30	4.90	3.10	6.50	4.60	5.60	3.80	4.00	4.64	5.70	5.91	6.14	5.1	4.00
56	5.30	8.70	5.00	3.60	7.40	4.55	5.80	3.90	4.30	4.52	5.83	5.61	5.64	5.2	4.10
57	5.50	8.20	4.60	2.80	6.60	4.50	5.90	3.80	4.10	4.45	5.53	5.95	5.98	5	4.30
58	5.50	8.00	5.00	3.10	8.40	4.45	5.90	4.40	4.40	4.43	5.53	6.15	6.19	4.3	4.50
59	5.50	8.00	5.00	3.10	8.60	4.40	5.90	4.10	4.50	4.41	5.59	5.90	5.94	5.4	4.60
60	6.00	8.20	5.10	3.40	6.90	4.35	6.20	4.40	3.90	4.36	5.38	6.28	6.29	5.1	4.50
61	7.00	10.00	5.40	2.70	5.50	4.30	6.50	4.10	4.40	4.27	5.31	6.54	6.44	5.3	5.00
62	7.20	11.00	5.50	2.80	5.00	4.25	7.00	4.40	4.20	4.22	5.38	5.39	5.16	5.6	4.50
63	6.45	10.00	5.30	2.90	5.80	4.20	7.30	5.00	4.10	4.22	5.21	6.60	6.62	6.1	4.90
64	7.20	10.00	6.10	2.80	5.50	4.15	7.40	4.70	4.70	4.12	4.98	6.00	6.11	6.4	5.00
65	7.50	13.00	5.70	2.70	5.40	4.10	7.70	5.40	4.30	4.11	4.99	7.34	6.31	5.1	5.20
66	7.40	11.00	6.40	2.80	5.40	4.05	7.80	4.80	4.90	4.04	5.03	6.04	6.10	6.5	5.30
67	7.00	12.00	6.10	2.70	6.40	4.00	7.70	4.60	4.50	4.04	4.93	6.71	6.81	6.3	5.10
68	7.50	10.00	5.60	2.80	5.80	3.95	7.60	5.20	4.80	3.97	4.81	5.82	5.91	6.6	6.20
69	7.50	10.00	8.90	3.10	5.20	3.90	7.40	4.80	4.50	3.87	4.71	6.72	6.75	6.3	4.70
70	7.50	11.00	6.10	2.90	6.20	3.85	7.40	5.40	4.60	3.85	4.76	6.75	6.75	6.9	5.50
71	8.00	11.00	6.50	3.60	6.10	3.80	7.40	5.10	4.60	3.77	4.63	6.50	6.54	7	5.30
72	8.50	12.00	6.20	3.50	5.30	3.75	7.30	4.60	4.40	3.75	4.55	7.71	6.92	6.9	5.40
73	6.50	9.20	6.80	2.10	7.40	3.70	7.30	4.80	5.10	3.75	4.77	8.04	6.91	6.5	5.00
74	6.50	13.00	5.70	2.90	5.90	3.65	7.30	4.60	4.40	3.66	4.29	7.74	7.22	4.3	4.20
75	6.75	11.00	6.00	2.50	6.10	3.60	7.30	5.90	3.90	3.56	4.35	6.50	6.50	6.5	4.50
76	7.00	11.00	6.50	2.80	7.00	3.55	7.30	5.30	6.10	3.55	4.45	8.73	7.05	4.1	3.90
77	6.20	13.00	5.80	3.20	7.40	3.50	7.50	6.10	5.50	3.46	4.26	8.73	7.48	6.4	4.70
78	5.50	15.00	6.80	3.00	8.60	3.45	7.30	4.40	5.10	3.43	4.15	7.30	7.20	6.7	4.30
79	7.00	12.00	6.50	2.60	6.40	3.40	7.40	4.40	5.10	3.43	4.38	7.11	7.12	6.9	5.00
80	7.20	10.00	6.30	2.40	6.30	3.35	7.80	4.80	6.20	3.27	4.16	6.34	6.30	6	4.10
81	7.00	14.00	5.70	3.10	6.20	3.30	8.10	5.00	6.30	3.34	4.06	7.32	7.30	6.6	3.90
82	6.75	15.00	6.10	3.40	8.70	3.25	8.10	5.40	5.20	3.21	4.18	7.49	7.25	6.7	4.70
83	6.80	12.00													

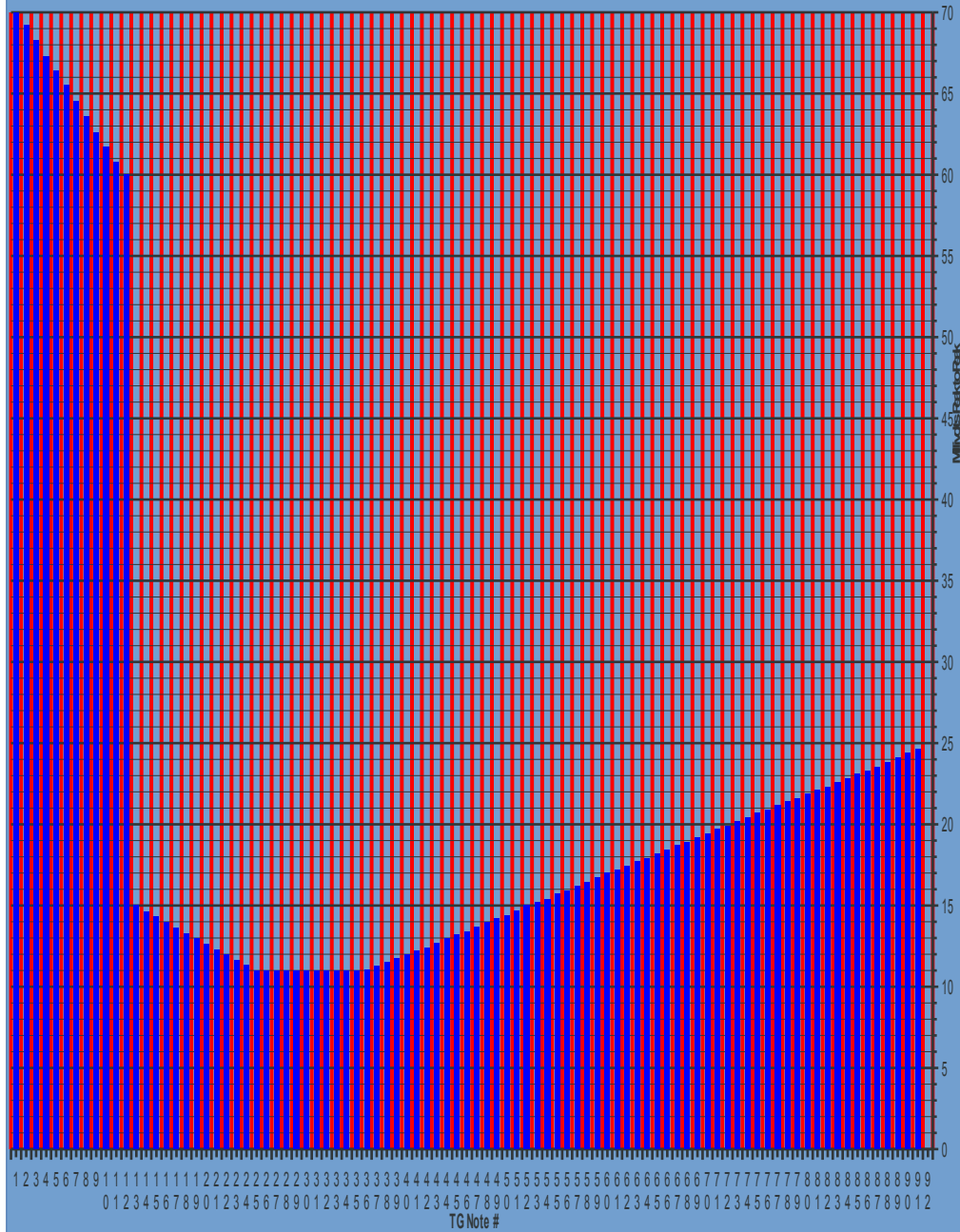
1969 Alan Young report: The pre-emphasis varies between 3.2 mV RMS (9.05 mVpp) to 8 mV RMS (22.6 mVpp). The mean low level is at around 250 Hz (TG note 36 or 37). 3.2 mV for the TG note 36 seems too low when compared to the actual measured organs.



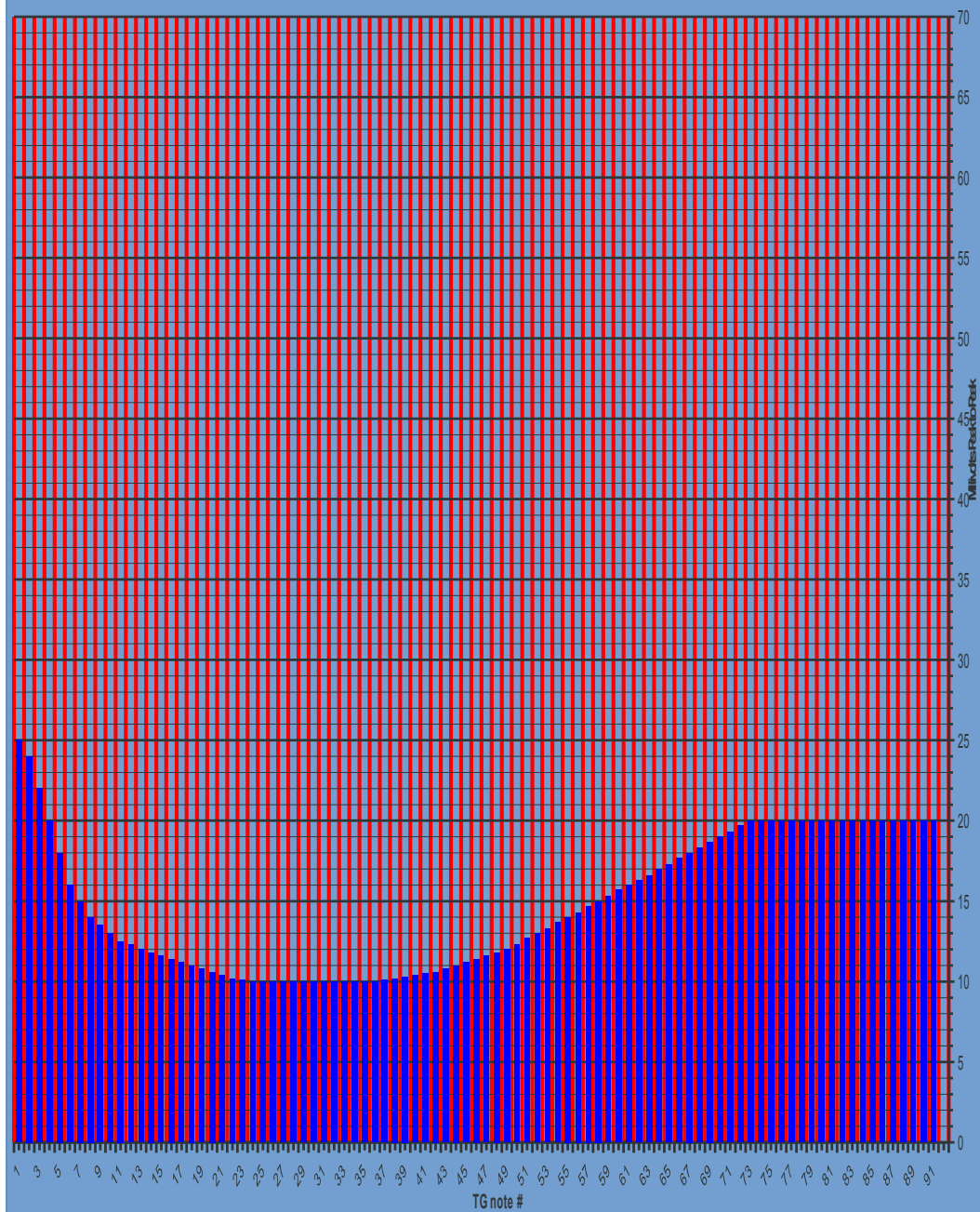
1969 Alan Young report TG notes 36 to 91 output levels specs combined with Kon's theoretically possible factory output levels for the TG notes 1 to 35, based on the TG output curves of many post 1956 to 1970's organs in the TG spreadsheet.



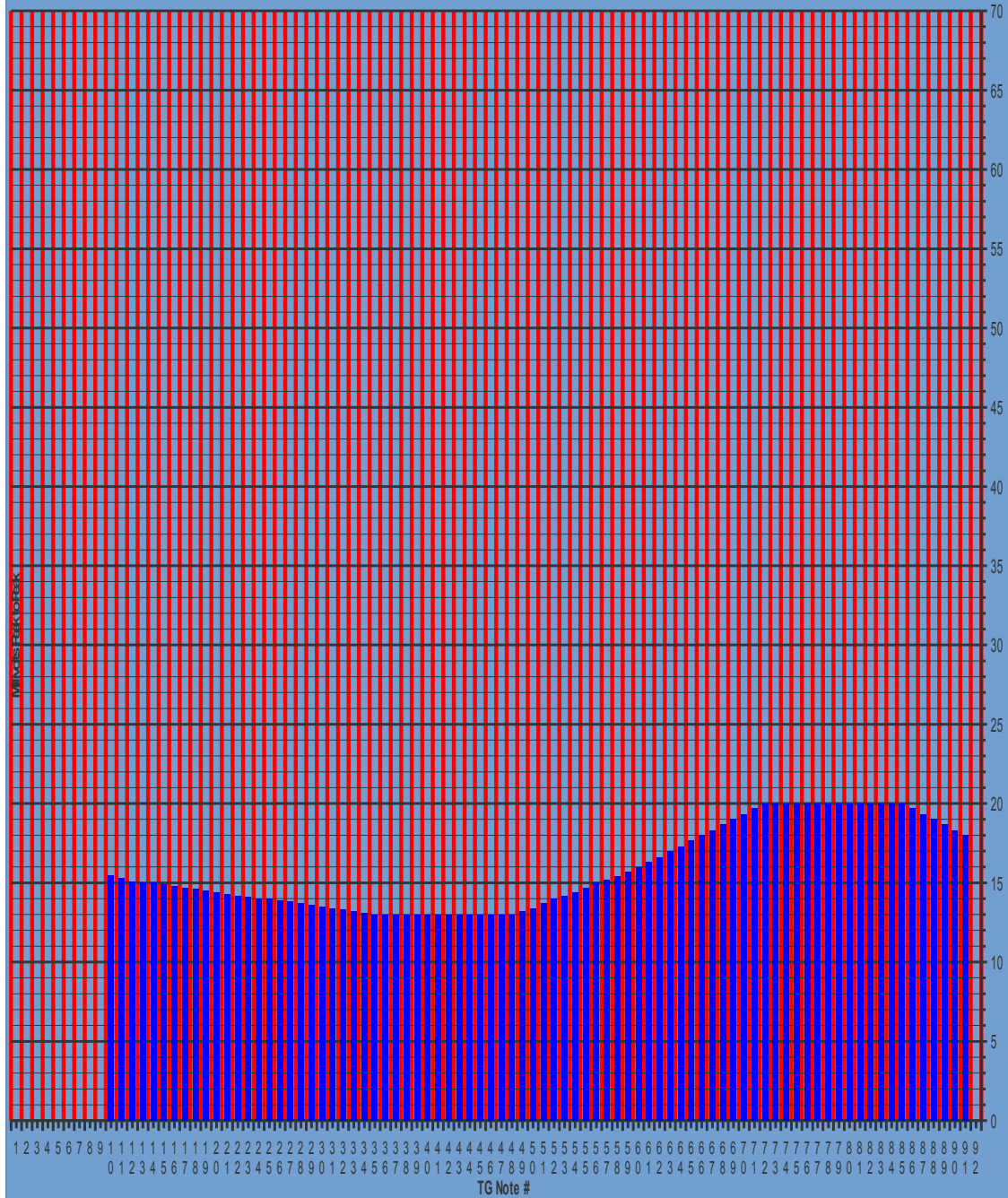
1969 Alan Young report TG note 36 to 91 output levels specs increased by 2 mVpp to fit in with the actual levels of many TG's and combined with the theoretically possible factory output levels for the TG notes 1 to 35 of the post 1956 to 1970's organs.



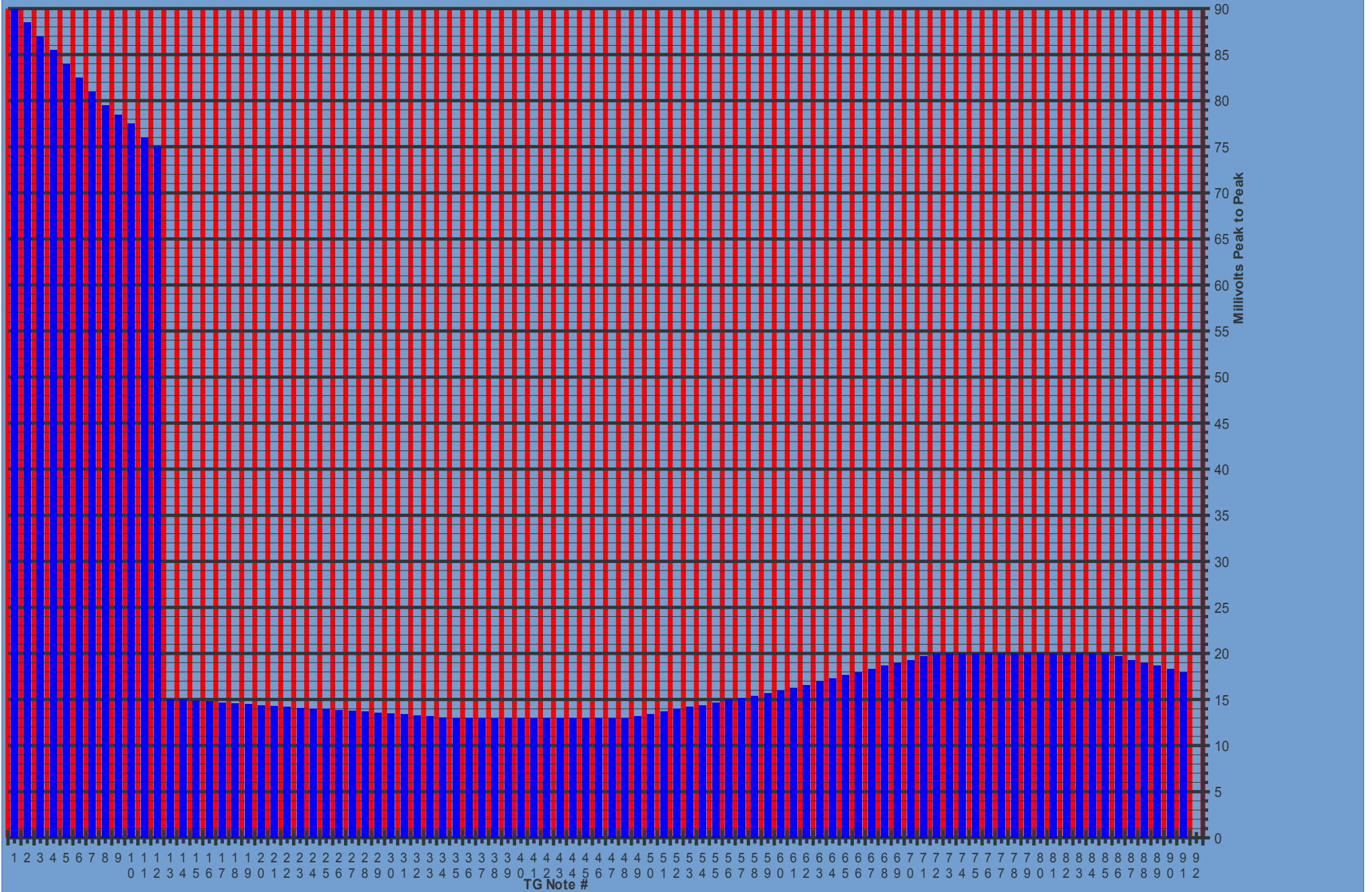
Theoretically possible factory TG output levels for the organs built between 1935 to 1940 with the 91-note TG and the sine wave bass TG notes 1 to 12. Based on the recapped 1935 Model A and the 1940 Model EV TG curves measured by Nathan.



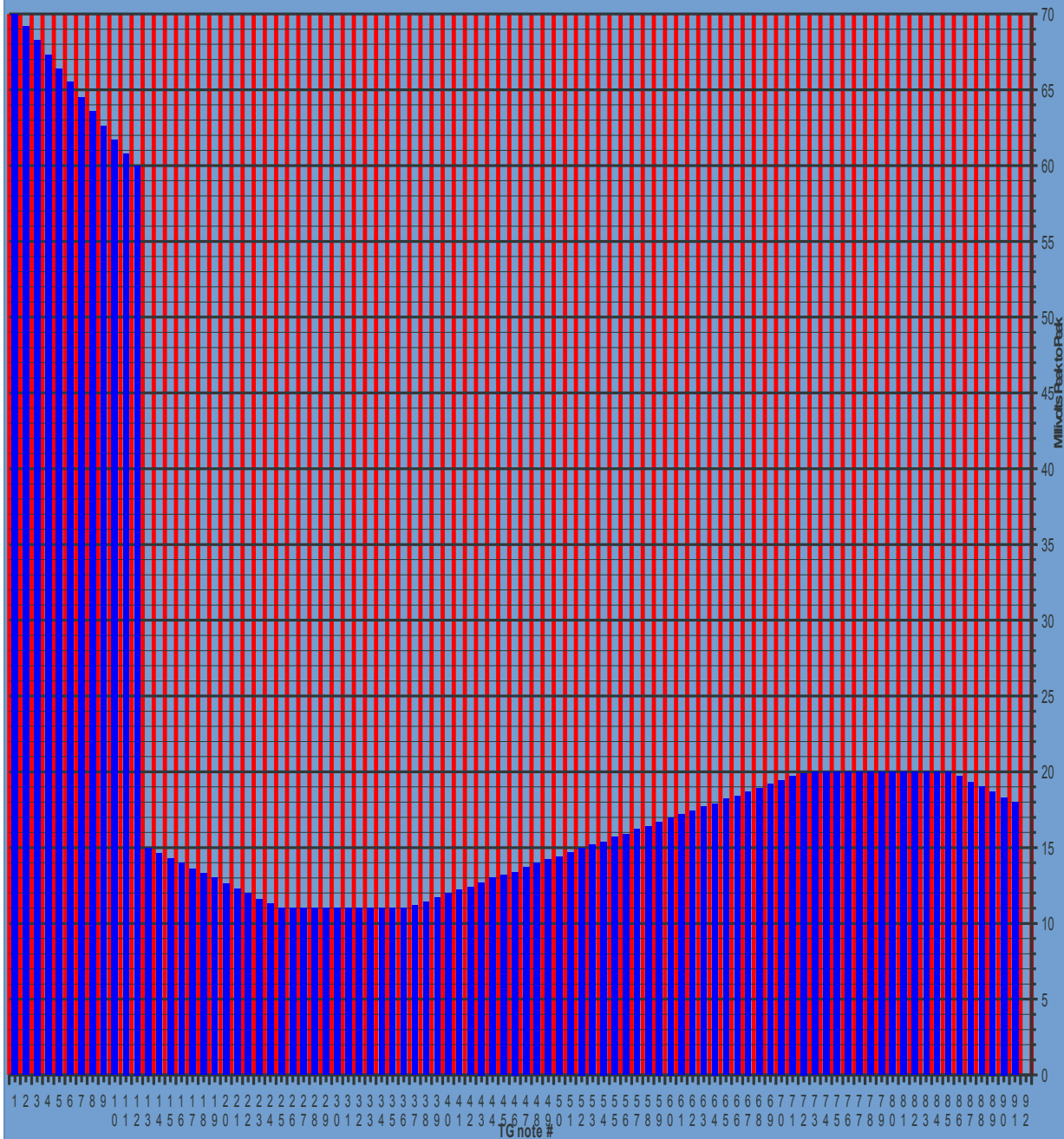
Theoretically possible factory TG output levels for the organs with the 82-note TG built between 1940 to 1942 and the earlier BV and CV organs built between 1945 to 1946. Based on the measured recapped TG's from that era.



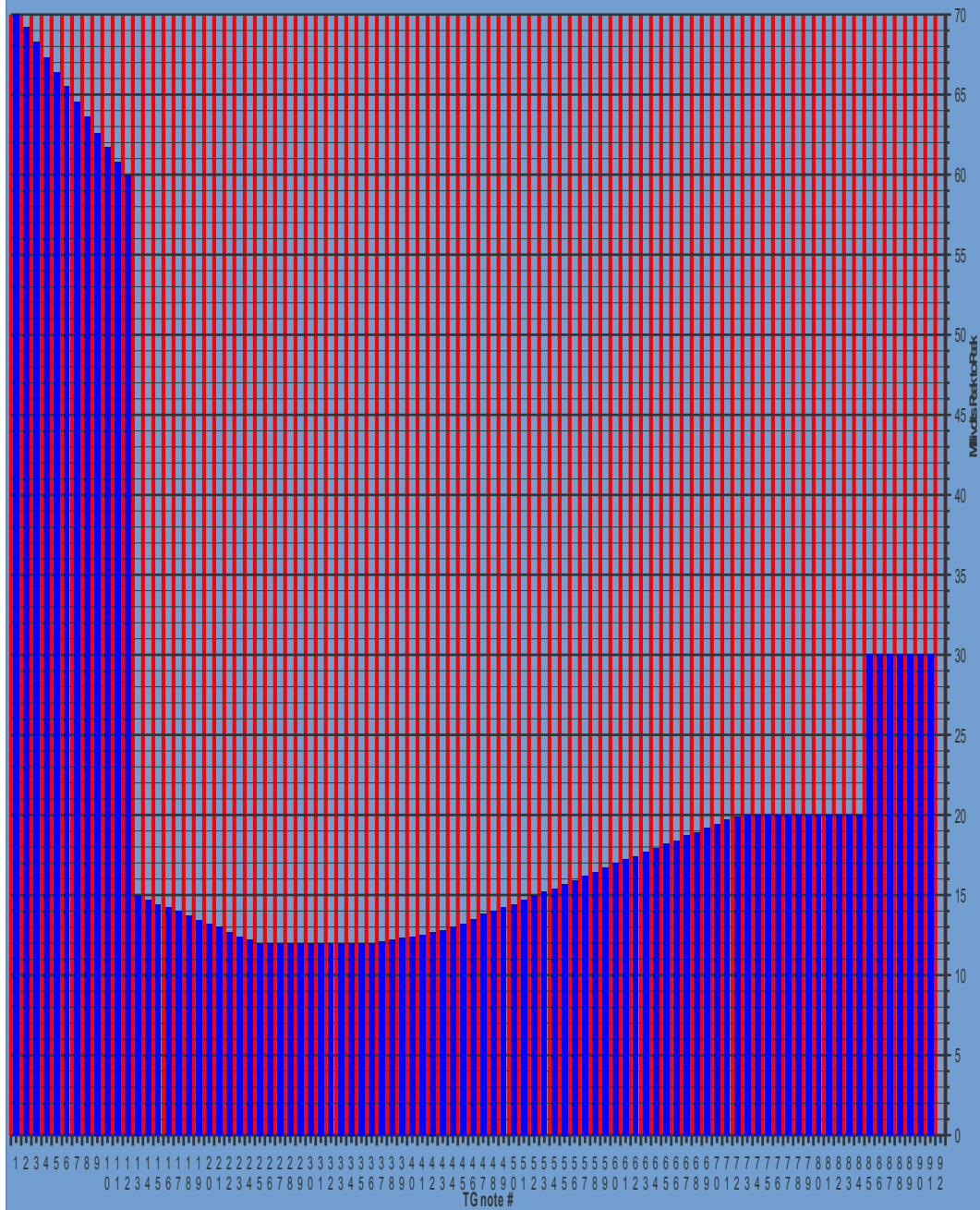
Theoretically possible factory TG output levels for the organs built between 1946 to 1956. Based on the measured TG's from that era.



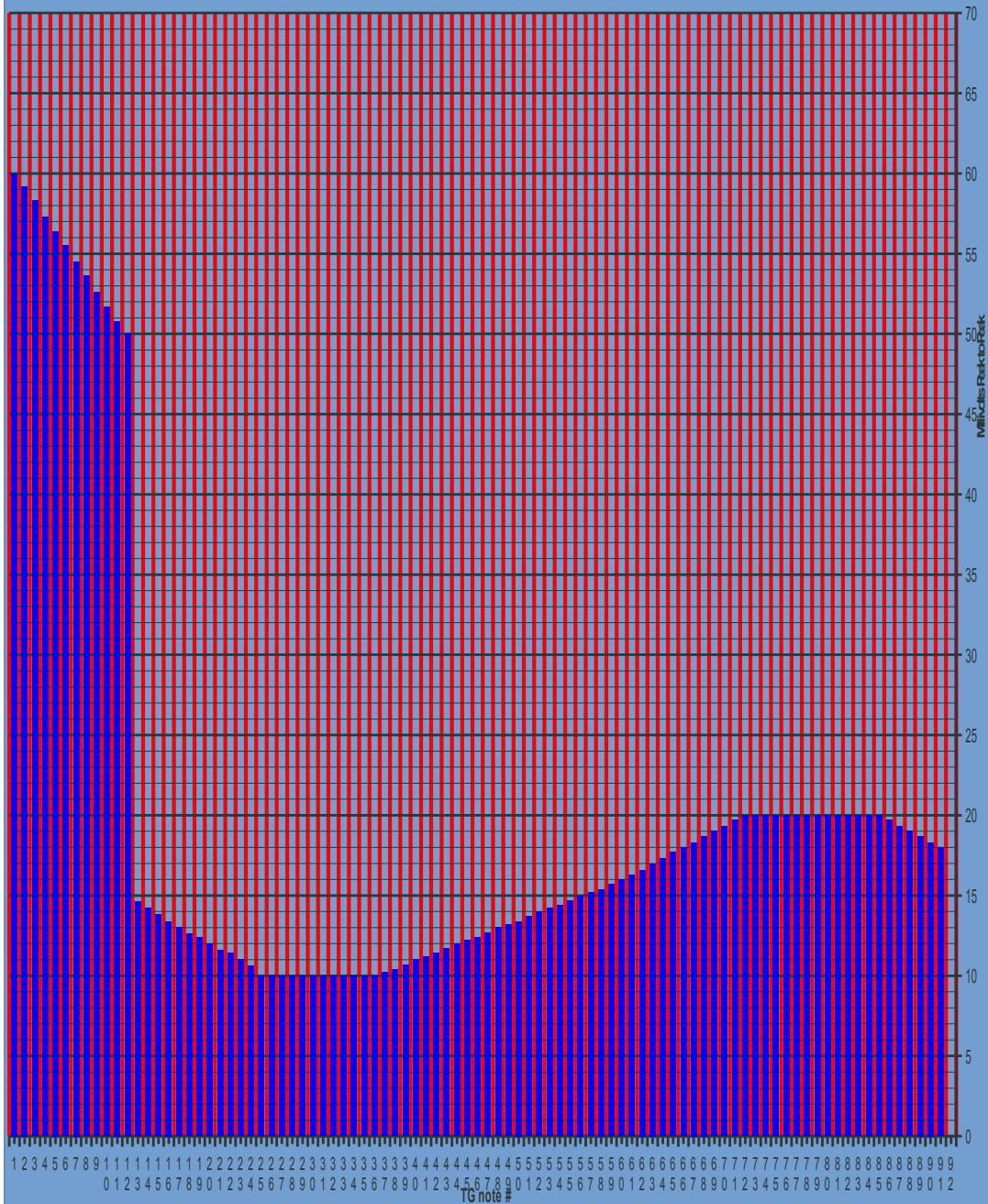
Theoretically possible Hammond factory TG output levels for the post 1956 and up to the 1970's organs. Based on the measured recapped pre 1964 and the red mylar capped post 1964 TG's from that era.



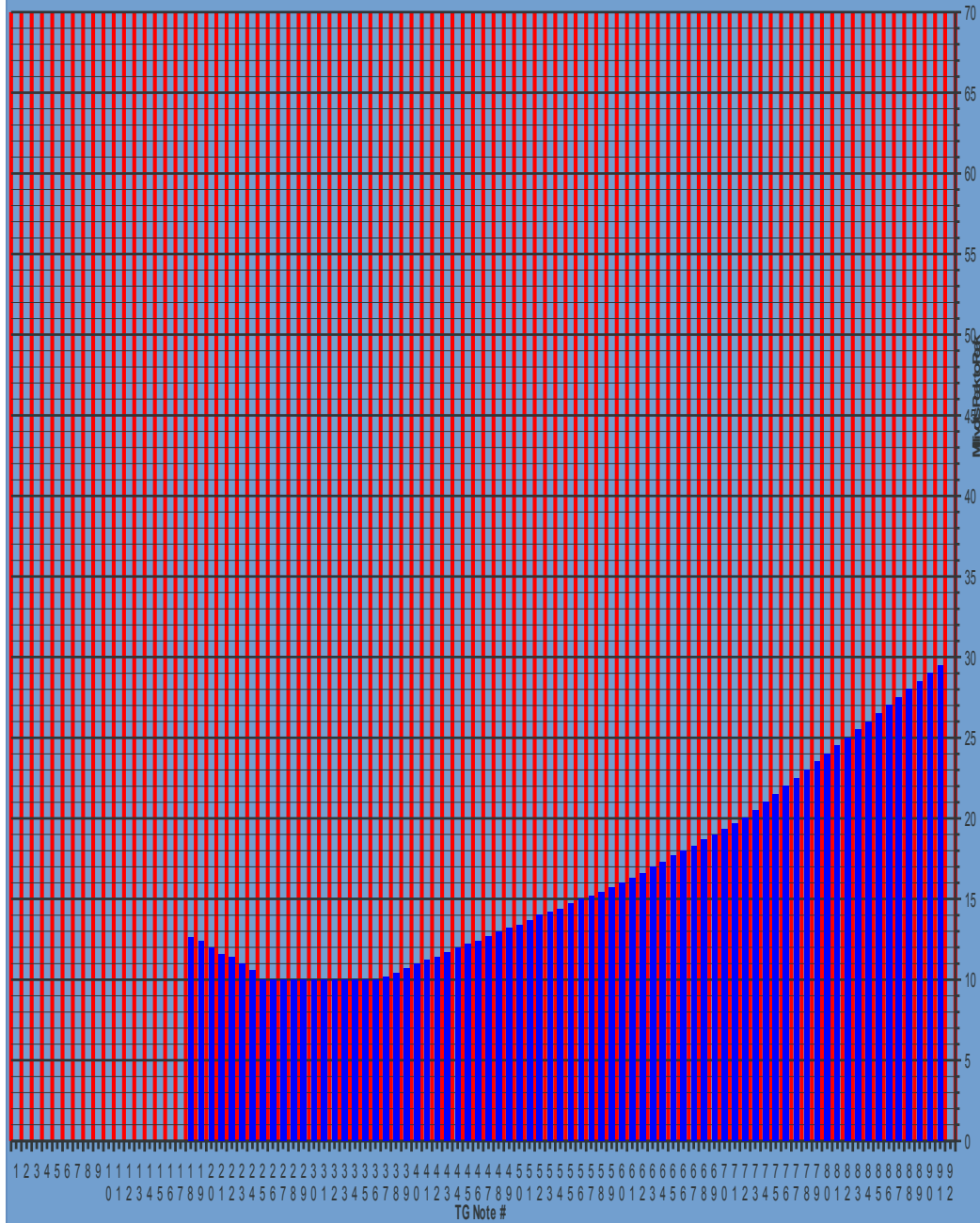
Alternative #1 theoretically possible factory TG output curve for some console and some spinet organs built during the mid to late 1960's. Slightly higher lower midrange levels and noticeably higher levels for the treble TG notes 85 to 91.



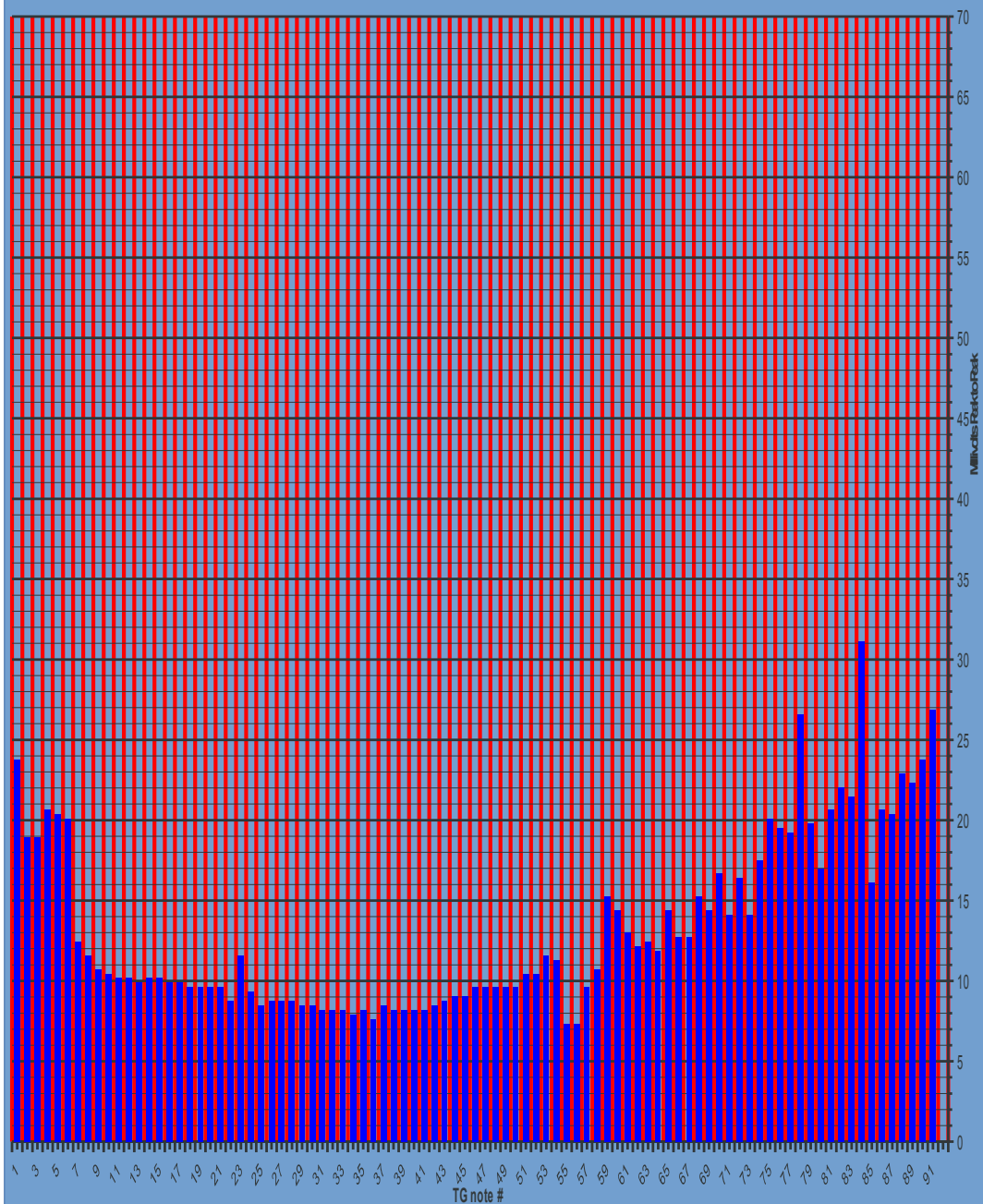
Alternative #2 Possible factory TG output curve for some of the organs built during the 1960's and the 1970's. Slightly decreased levels for the bass and the midrange TG notes. The TG notes 73 to 91 are similar to the post 1956 levels.



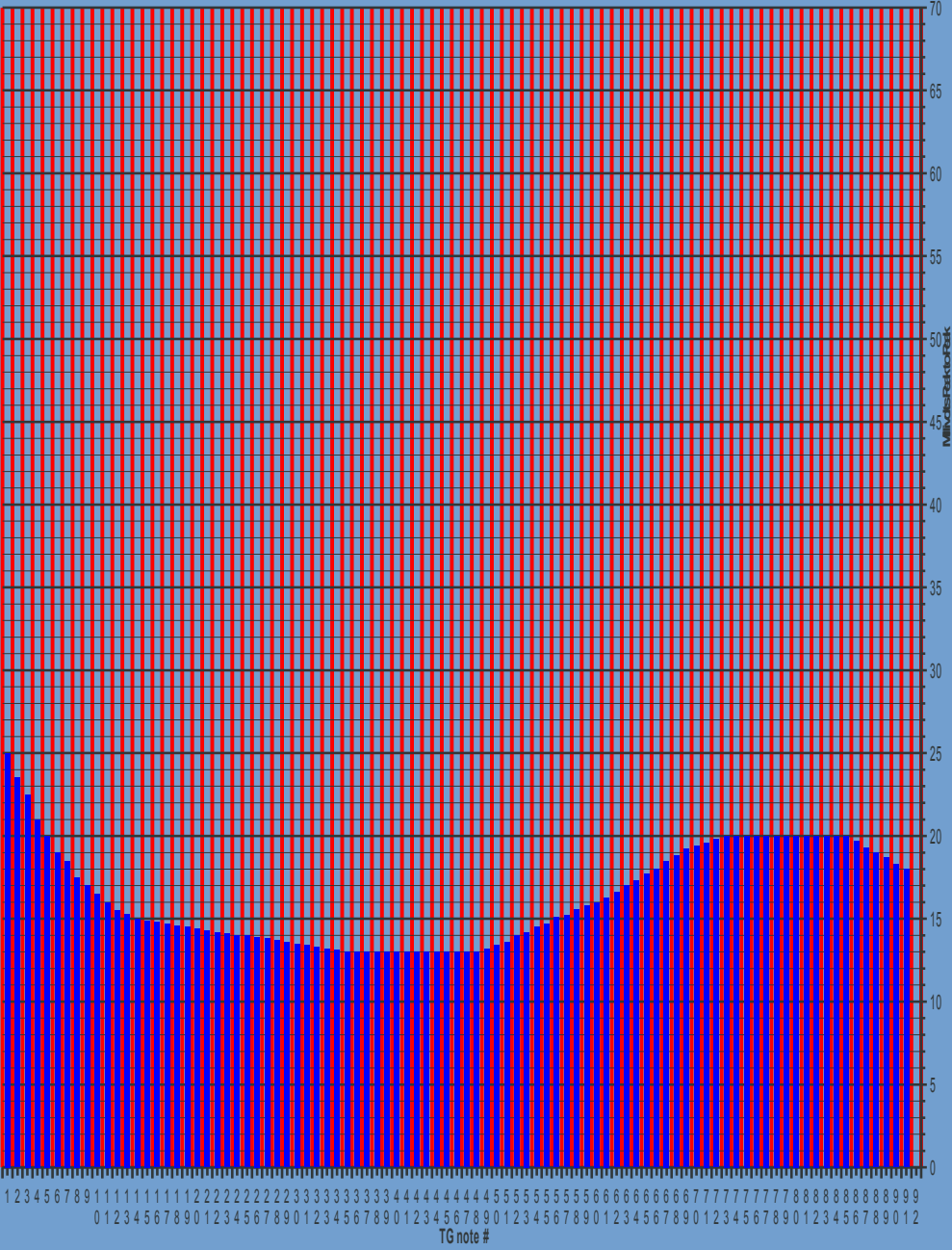
Theoretically possible factory TG output curve for the earlier T-series organs. Higher levels for the TG notes 73 to 91 to compensate for the key click filter in the preamp. The later T-series organs were calibrated similar to the post 1956 organs.



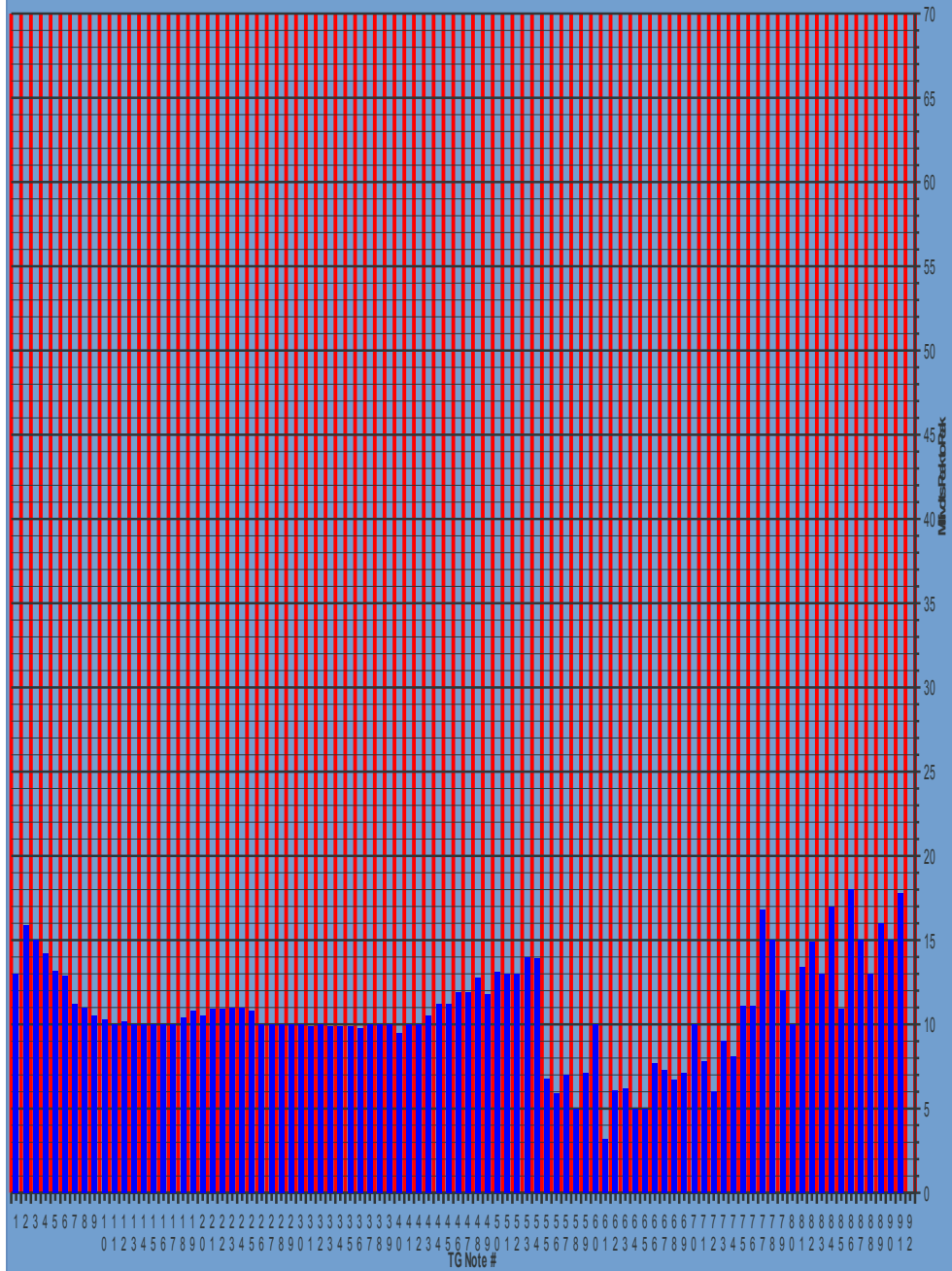
Tyler's 1935 Model A recapped with Sprague Orange Drop capacitors. S/n 307 TG notes 1 to 6 and also some TG notes in the TG note 12 to 24 range were increased before the TG was measured. mVRMS levels converted to mVpp by Kon.



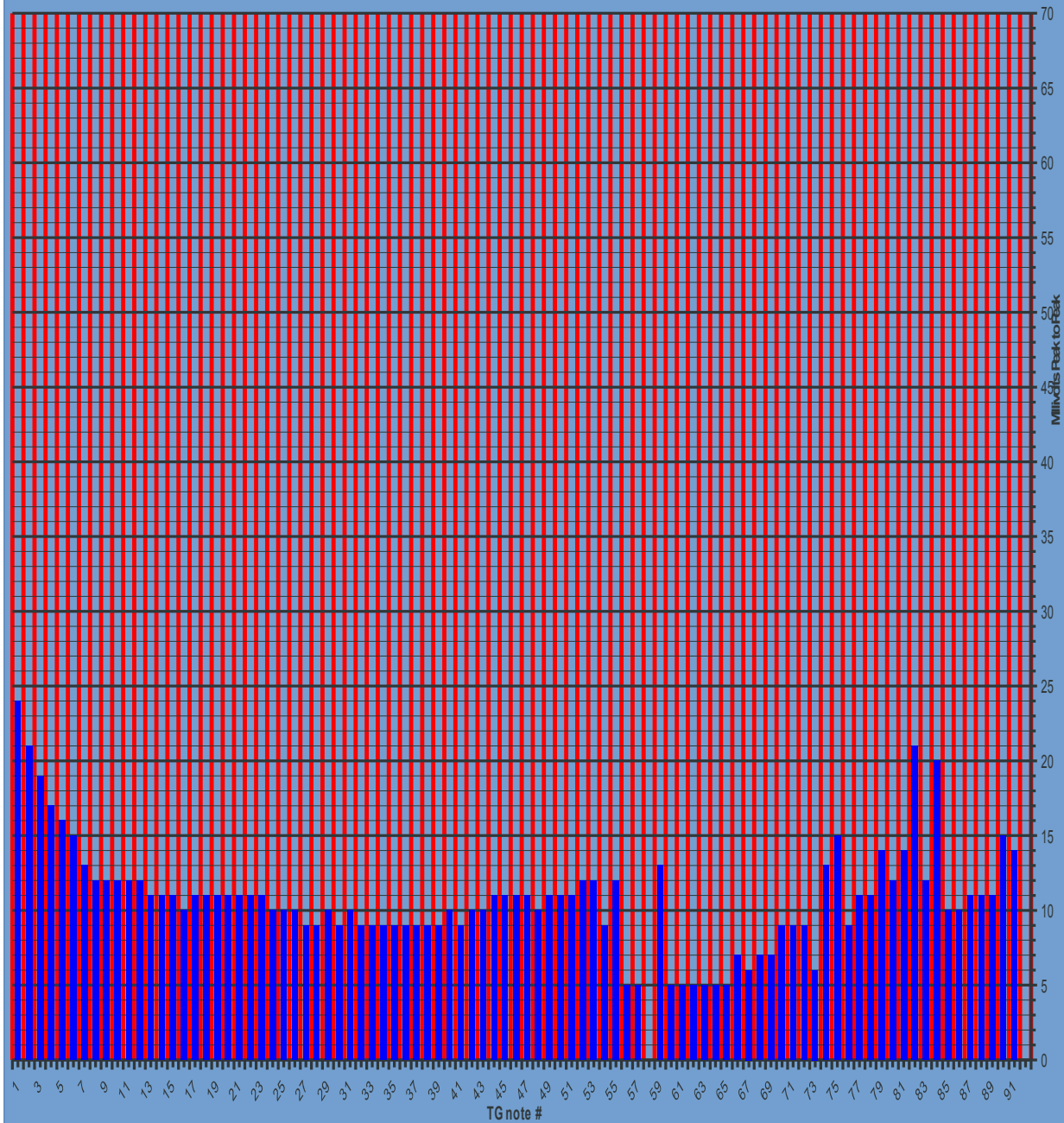
Tyler's recapped and recalibrated 1935 Model A S/n 307 TG notes 1 to 48 recalibrated to Kon's post 1937 Model A and BC specs and the TG notes 49 to 91 recalibrated to Kon's later era post 1956 specs. "The organ sounds very nice calibrated like this"



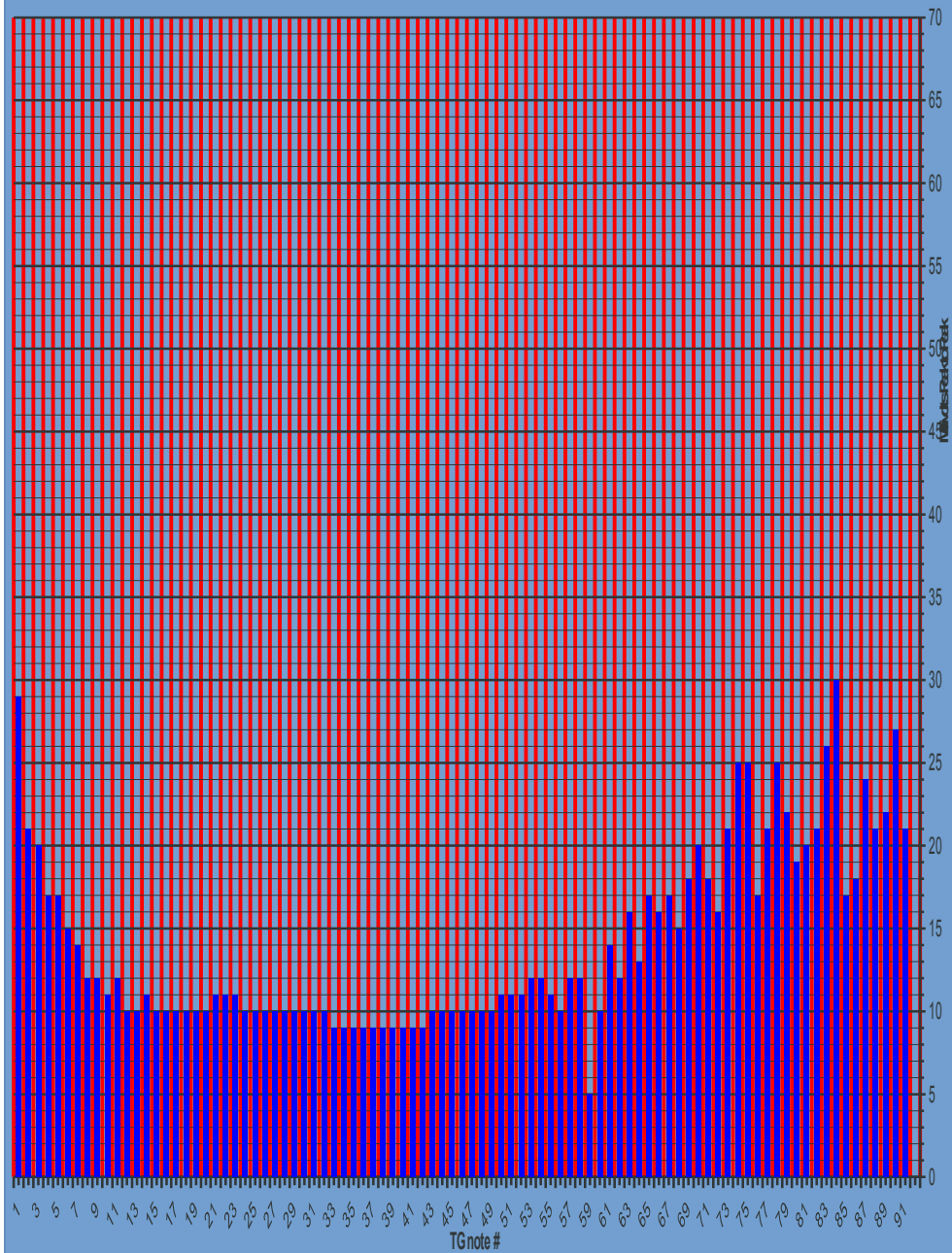
Cort's wax capped 1935 Model A S/n 381. Cort recorded the TG notes 1 to 91 directly from TG terminal strip to the digital recorder. Kon set the TG note 13 to produce 10 mVpp through the mVpp meter and then measured the mVpp levels of the TG notes 1 to 91.



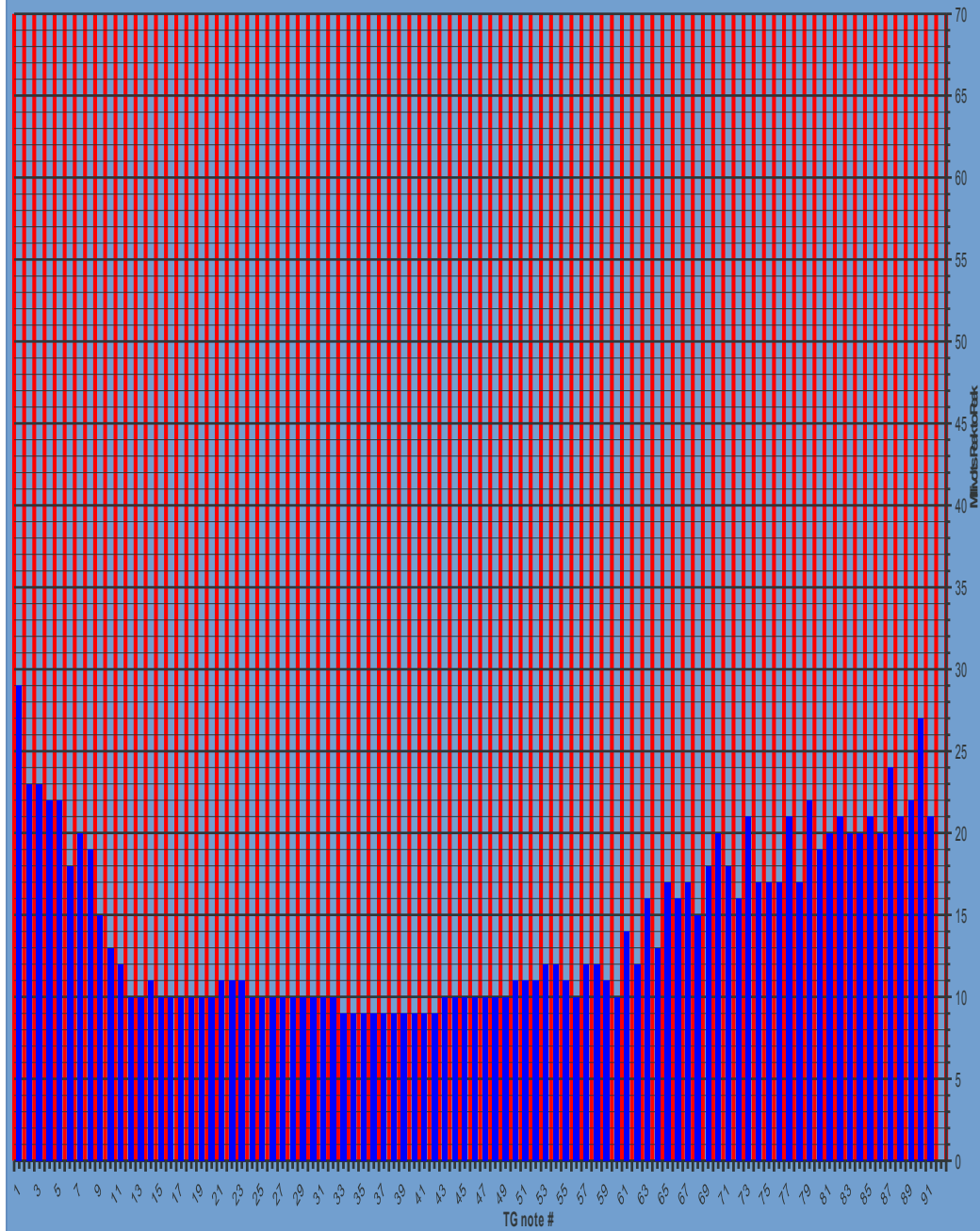
Wax capped 1935 Model A S/n 389 with a Trek II SSP-3 preamp. Measured by Nathan. "This organ actually sounded rather good before the recap, and we expect just minor improvements afterward."



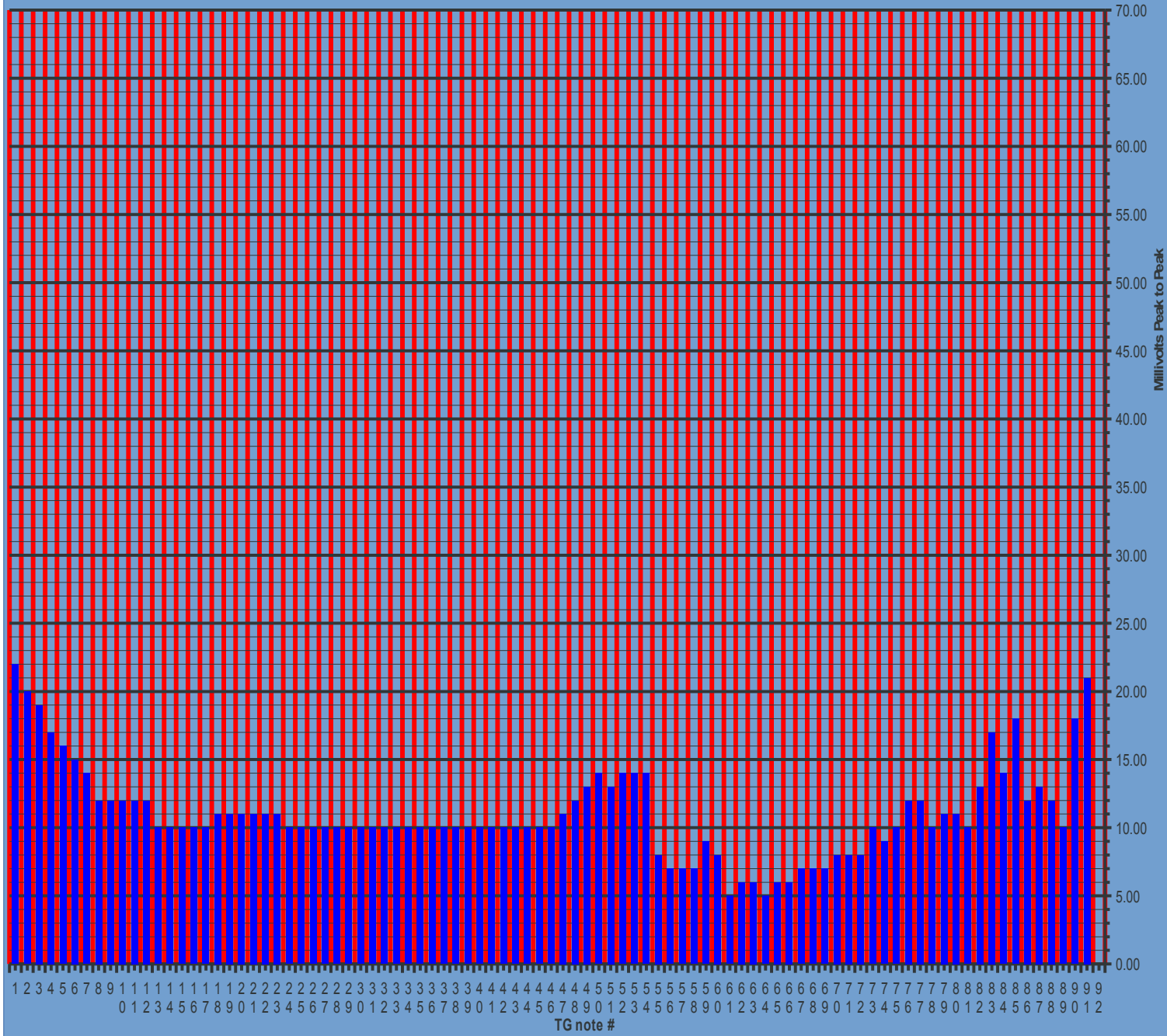
Recapped 1935 Model A S in 389 with a Trek II SSP-3 preamp. Recapped and measured by Nathan before recalibrating the TG. "Thoughts on sound before calibration: Very bright, sharp attack. Much emphasis on treble end, kind of weak in the midrange and bass."



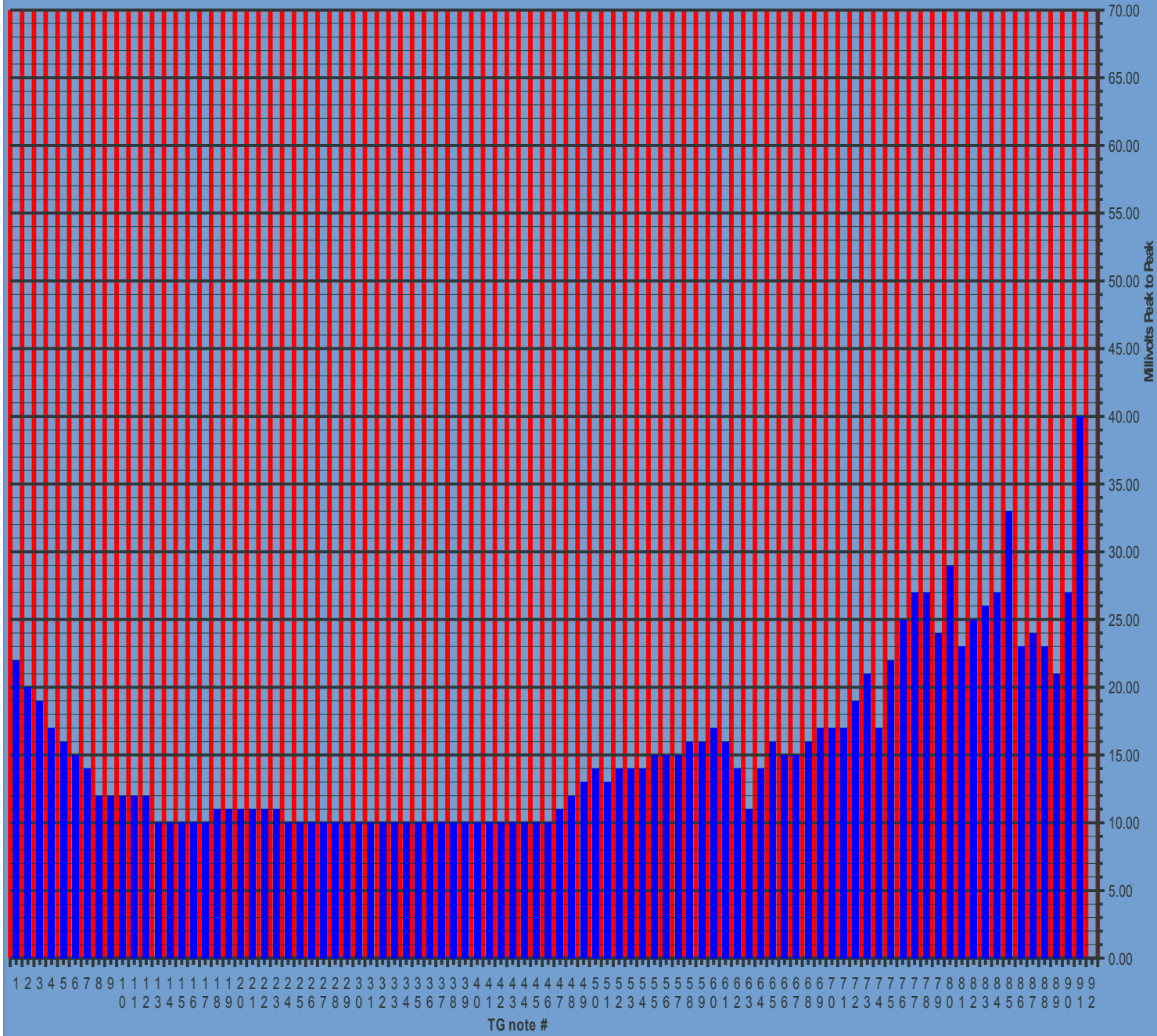
Recapped and recalibrated 1935 Model A S/n 389. Recalibrated by Nathan. "Much smoother and fuller sound. Still very sharp in the treble, but not harsh. Much deeper, fuller bass. Noticeable crosstalk in the lower tonewheels but nothing terrible."



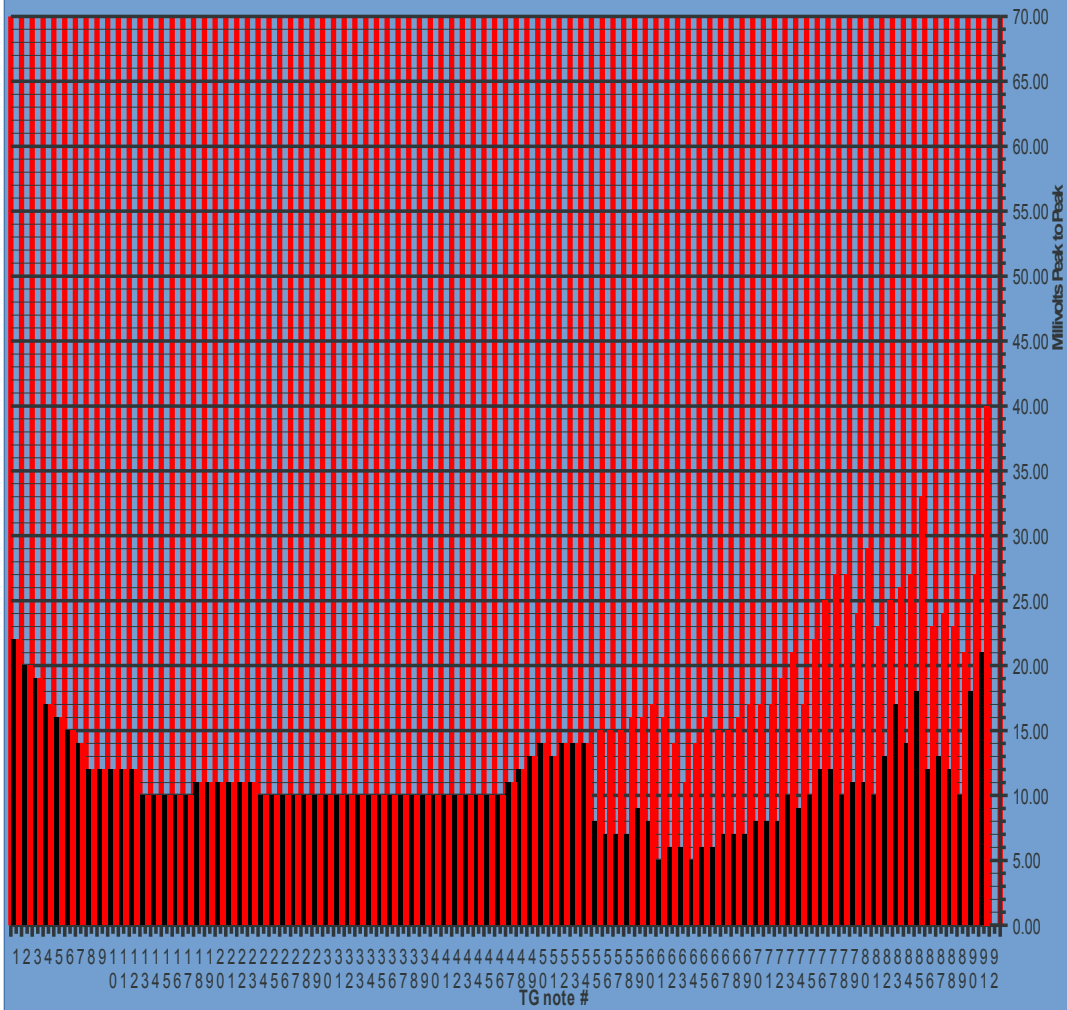
Adam's wax capped 1936 Model A. s/n 949. Measured with Tektronix scope 475. Original 0.105 uf capacitor drift range: 0.6 uF to 3 uF. Average capacitor drift: 2.2uF.



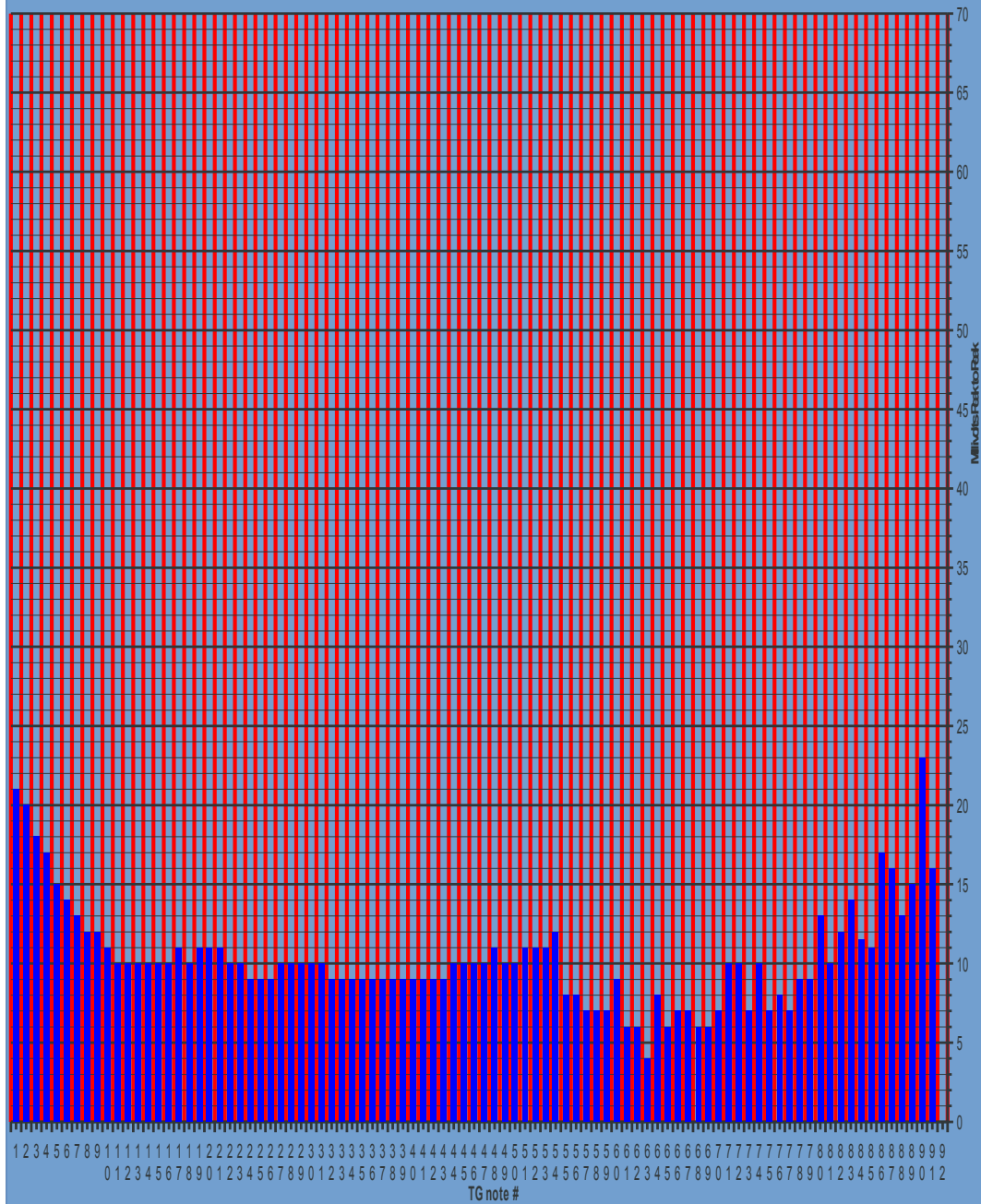
Adam's recapped 1936 Model A. s/n 949. Measured with Tektronix scope 475. TG notes 55 to 91 recapped with Panasonic 0.1μF 400V Metallized polyester capacitors.



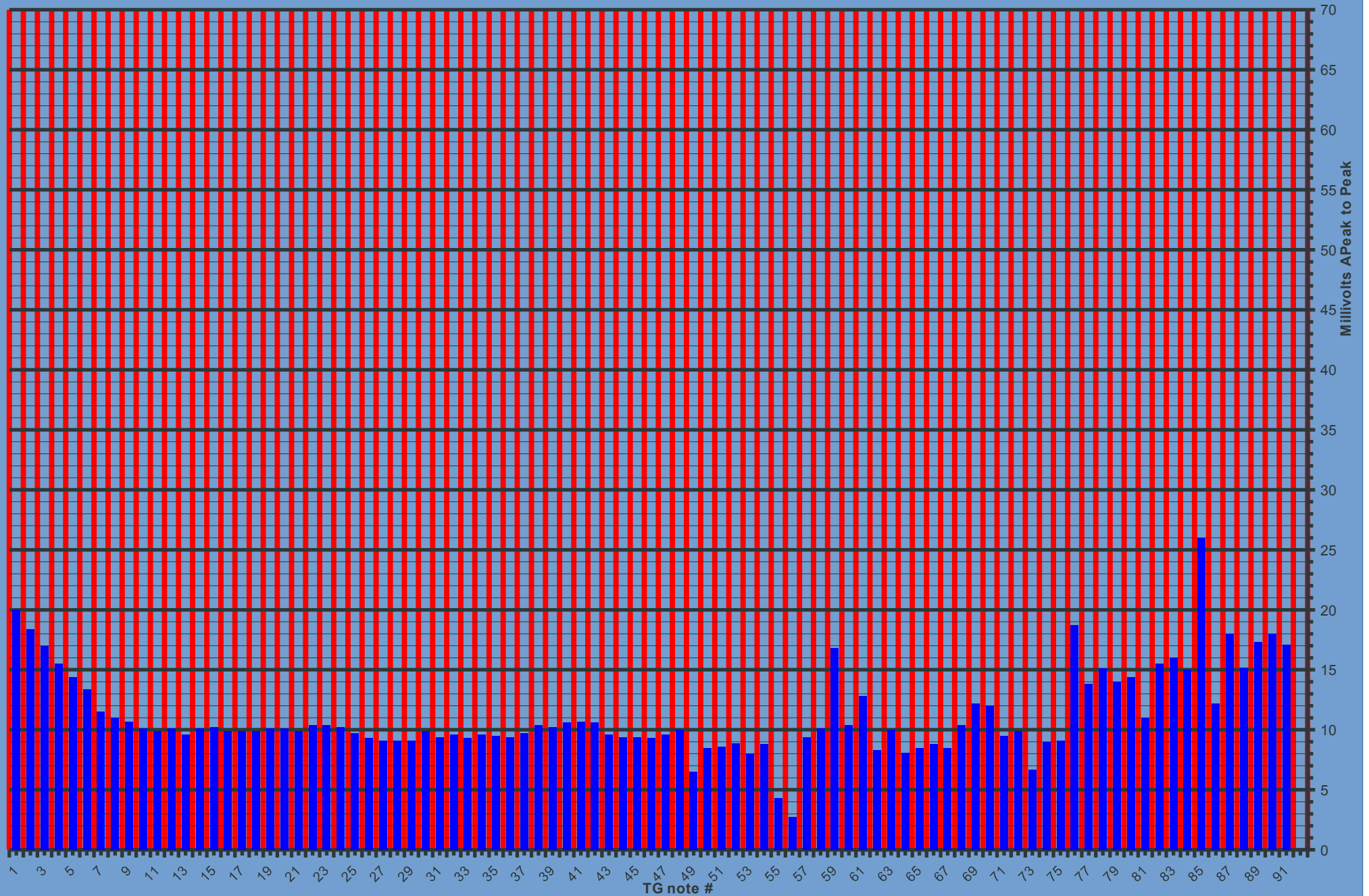
Adam's 1936 Model A. S/n 949. Comparison of the TG notes 55 to 91 with the original wax paper capacitors and the replacement 0.1 uf capacitors.



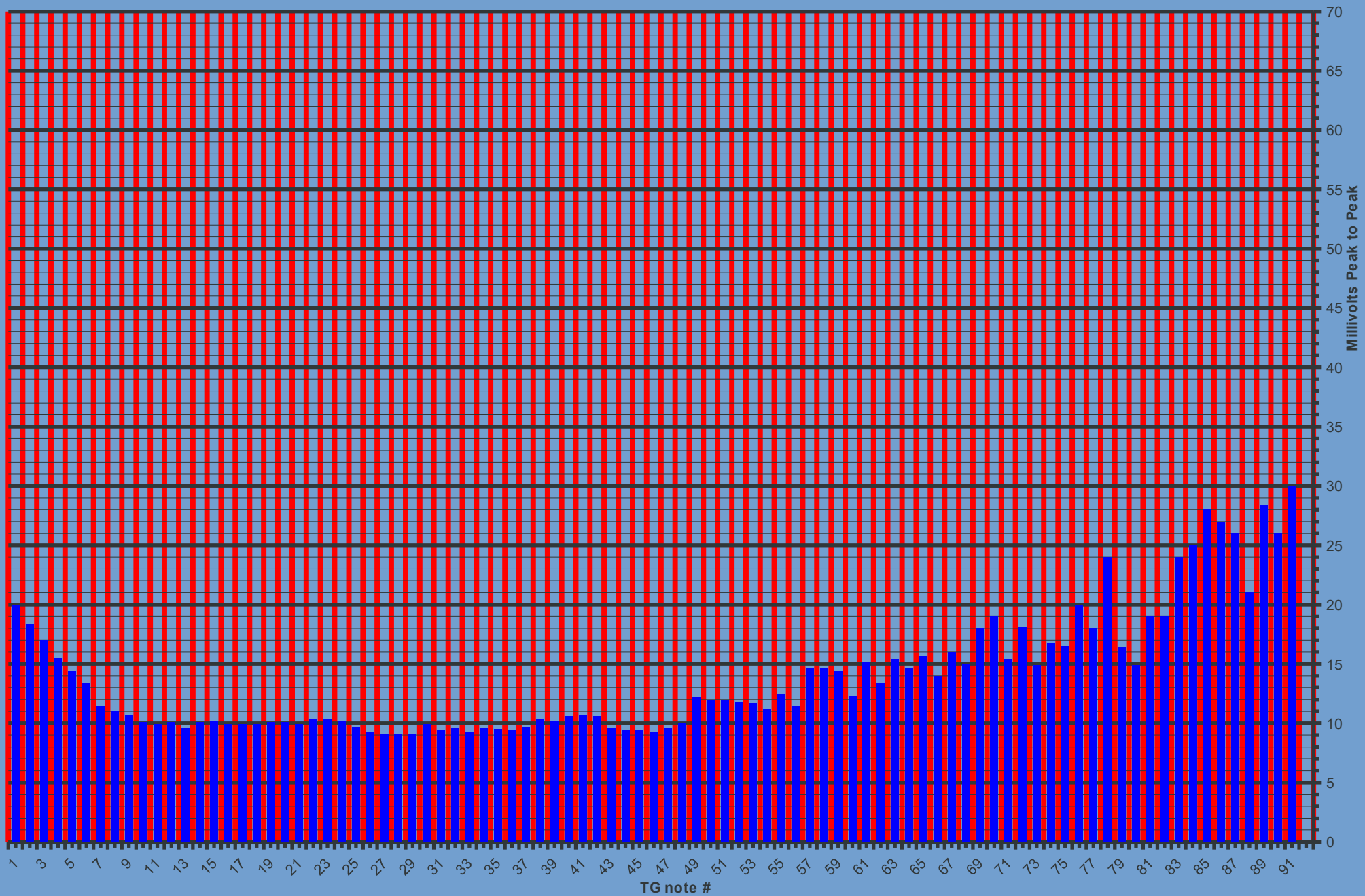
Nathan's wax capped 1936 Model AV S/n 1252. Measured by Nathan with an oscilloscope. "My AV has a heavy bass end and a mild top end. I wouldn't say that it sounds dull, but I would like to have the option of more brightness at times."



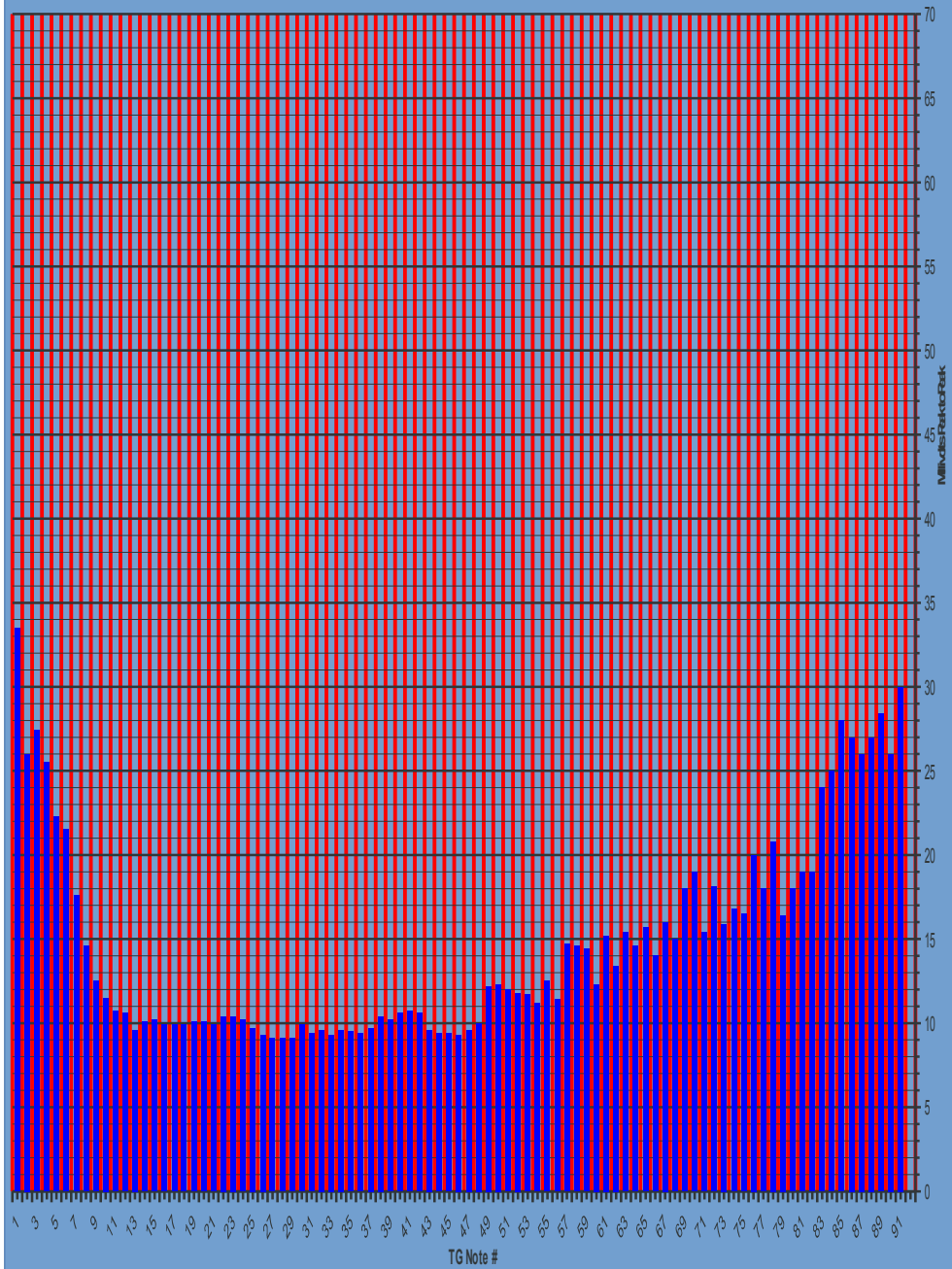
Benjamin's wax capped 1936 Model A. S/n 2402. The date written on the TG is "10 / 11 / 36"



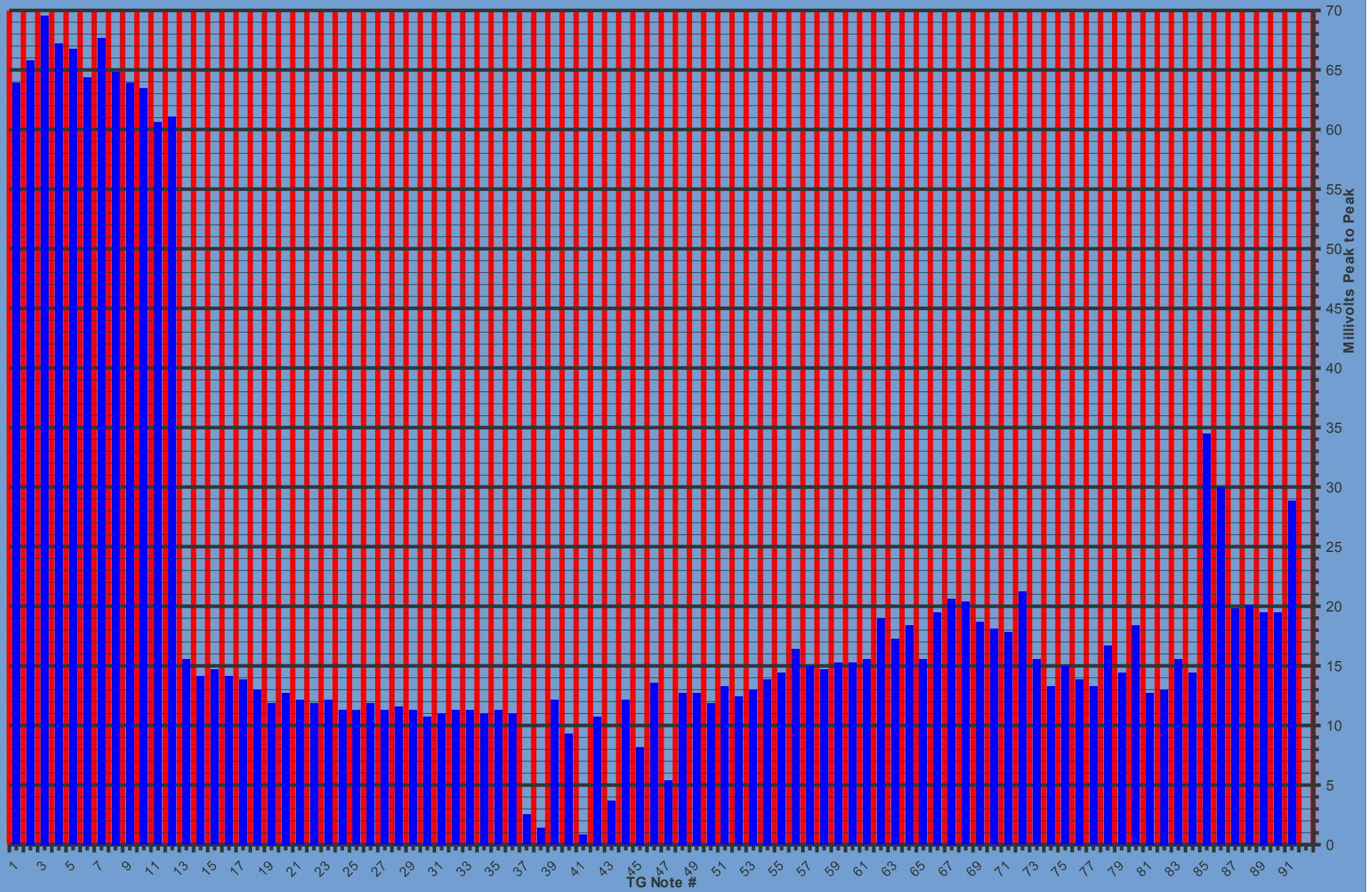
Benjamin's recapped 1936 Model A. S/n 2402. The date written on the TG is "10 / 11 / 36"



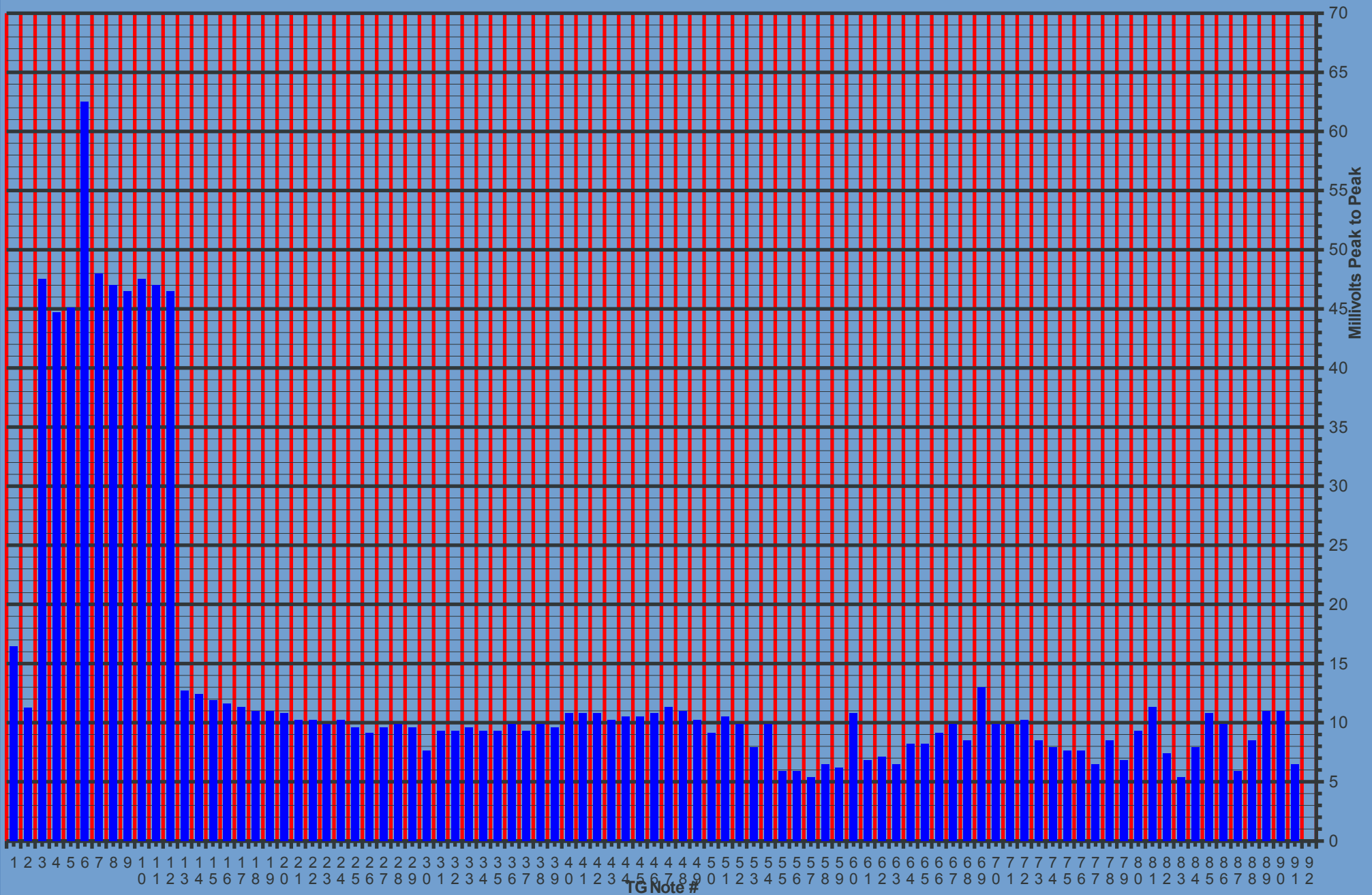
Benjamin's recapped and recalibrated 1936 Model A. S/n 2402. "The TG note 1 to 12 levels were increased to compensate for the customized hybrid preamp's weak bass response. The lowest TG note pickups will hit the tonewheels if they are brought any closer"



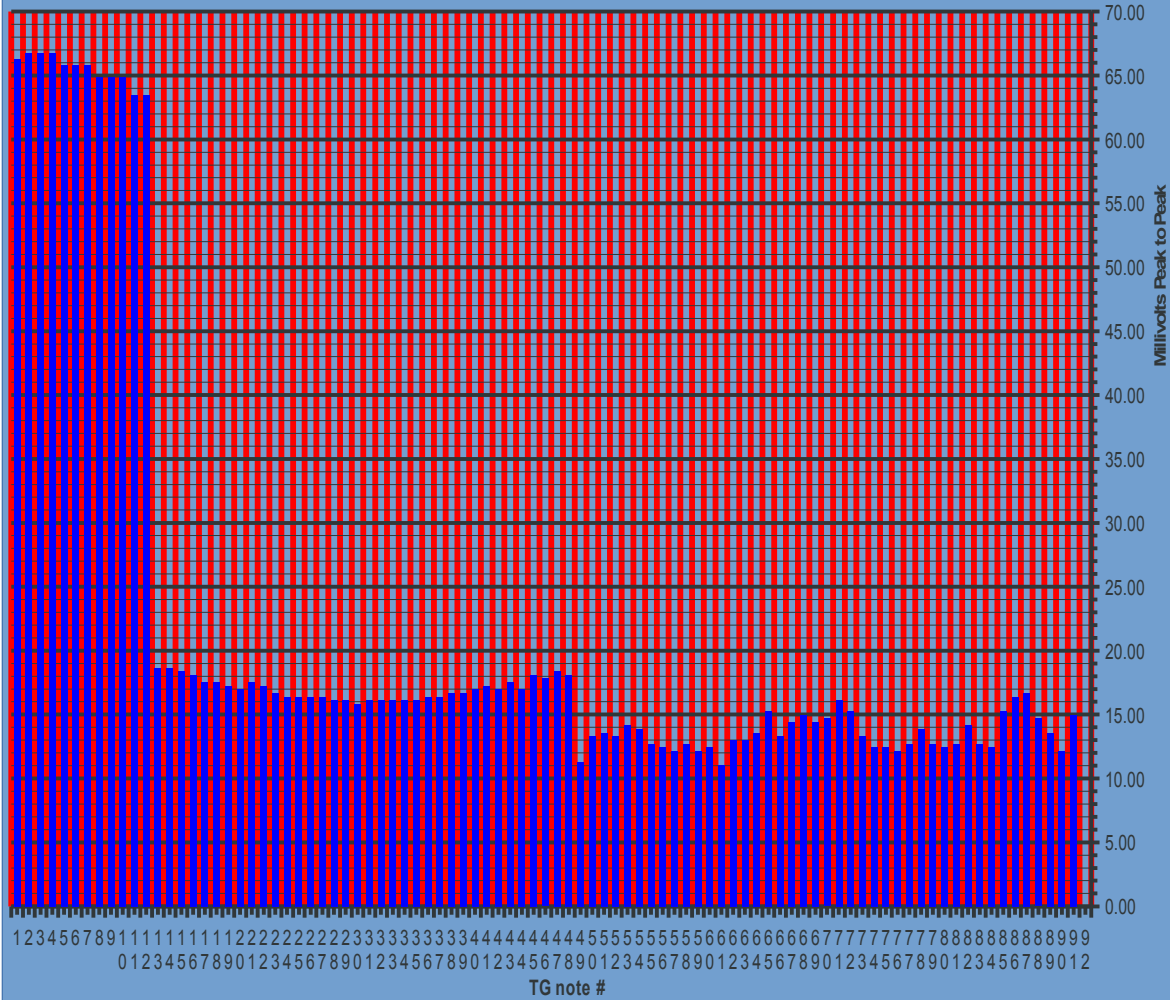
A100 with wax capacitors.



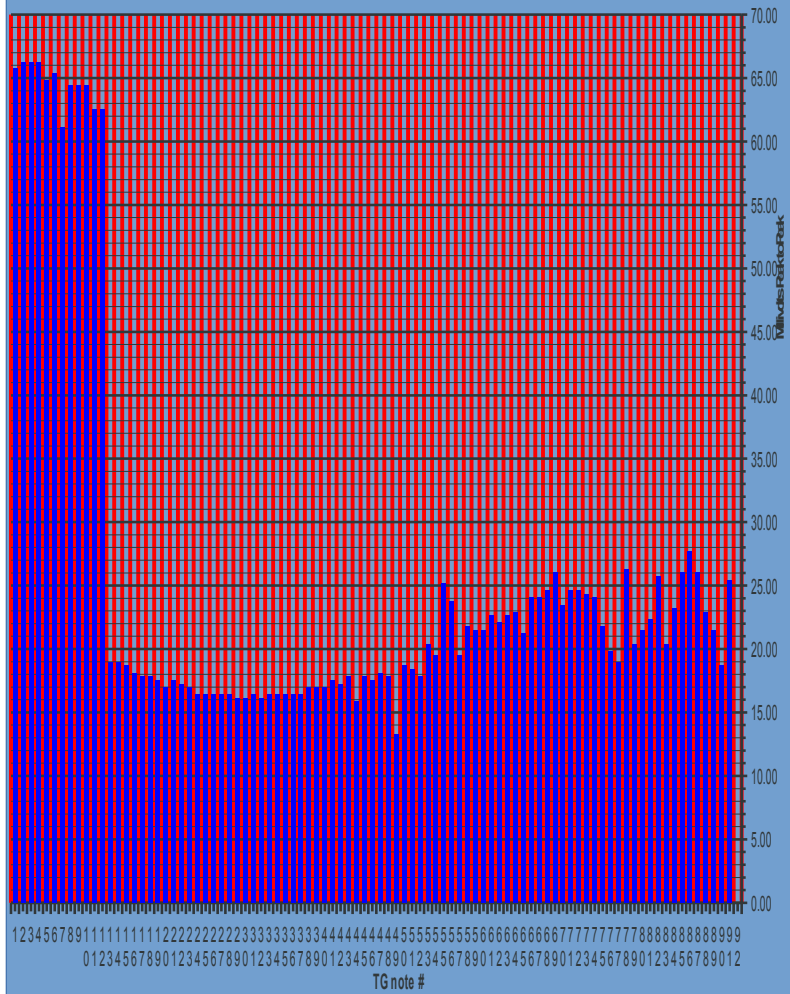
Peter's A100 With wax capacitors .



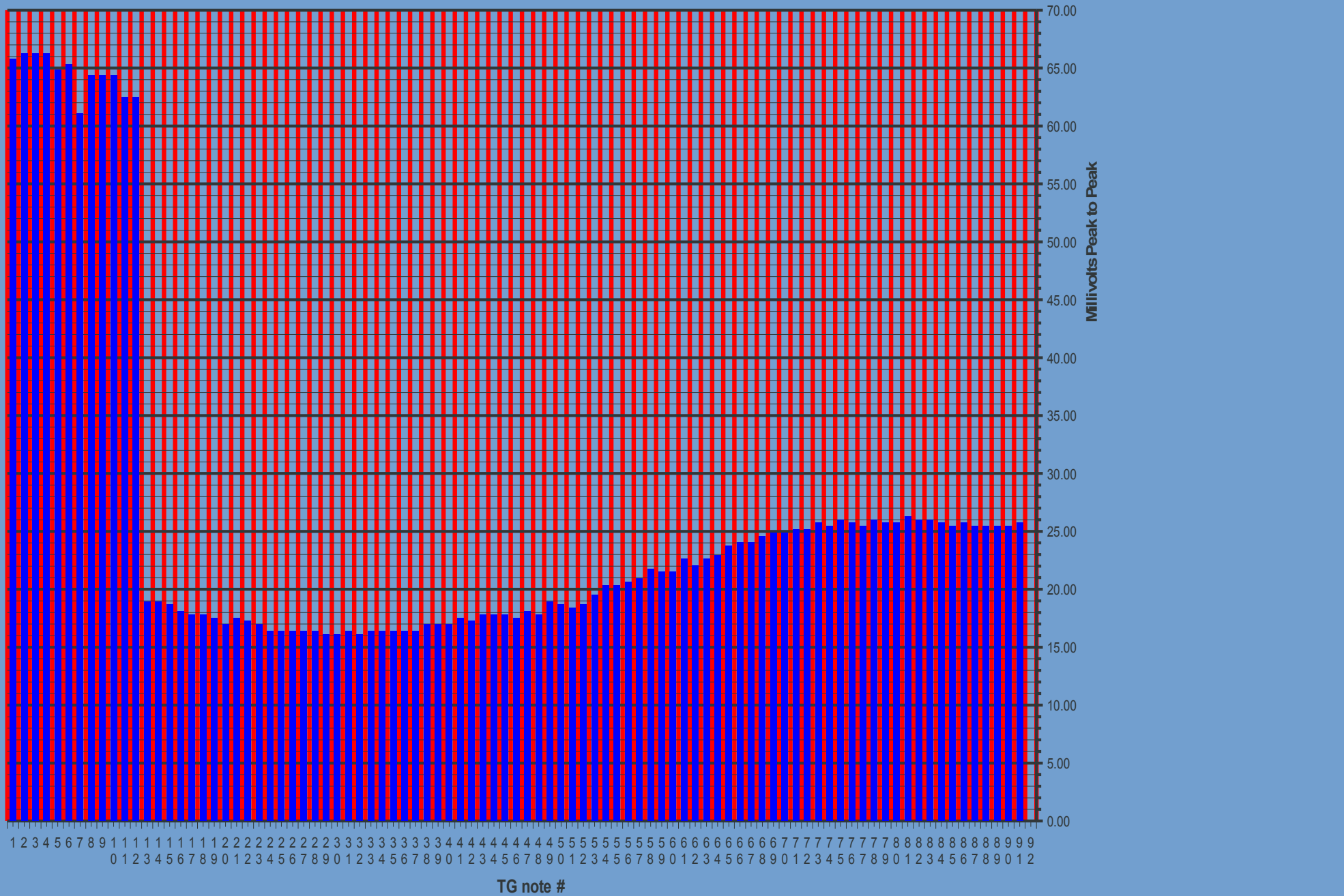
Fernando's wax capped 1963 A-100. S/n 35362 Original TG calibration. mVRMS levels converted to mVpp by Kon, 24 September 2014.



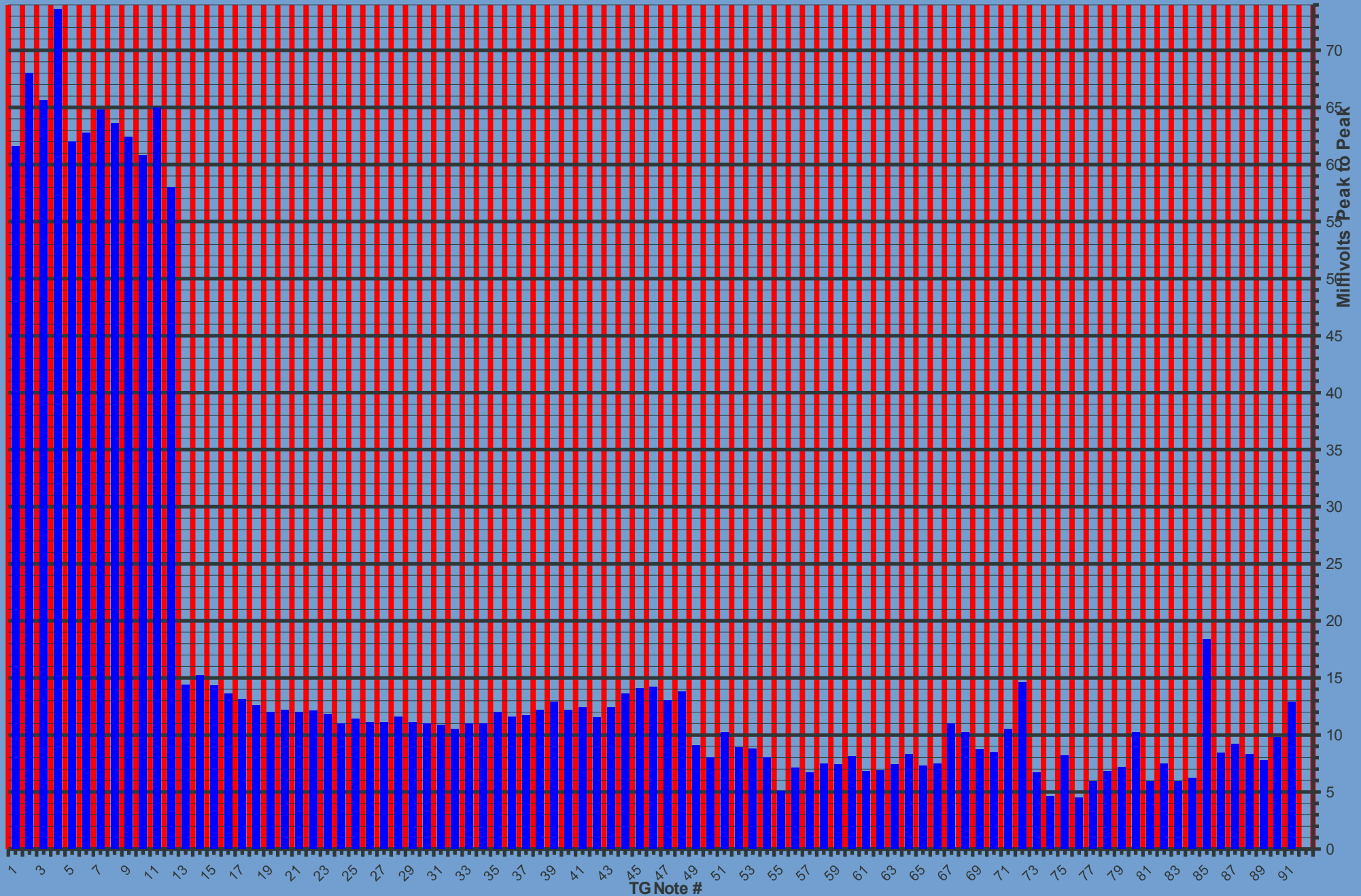
Fernando's recapped 1963 A-100. S/n 35362. Original wax capped tray replaced with a red mylar capped tray from a post 1964 organ. mVRMS levels converted to mVpp by Kon, 24 September 2014..



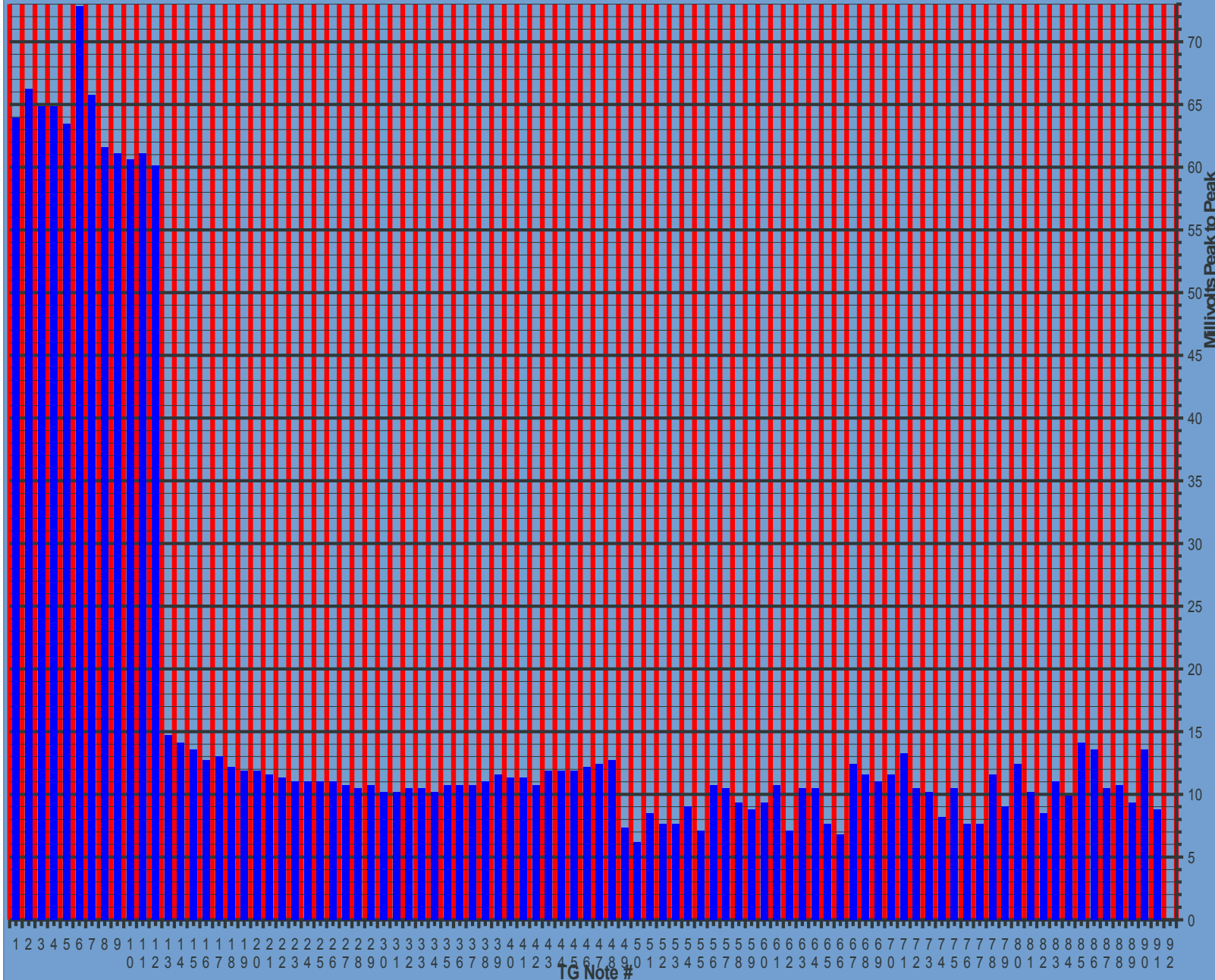
Fernando's recapped and recalibrated 1963 A-100. S/n 35362. MVRMS levels converted to mVpp by Kon, 3 December 2014.



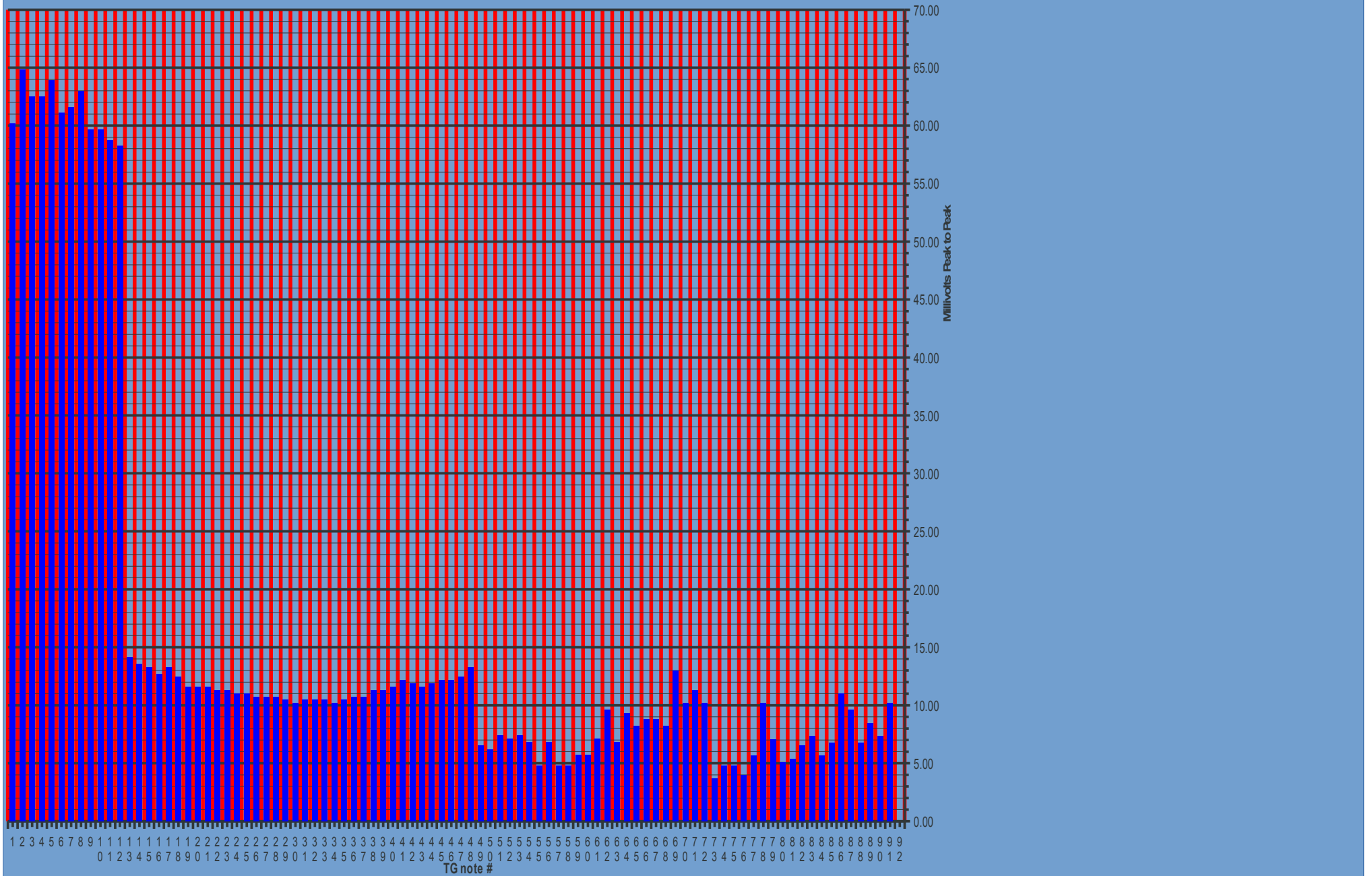
Ilya's Stock Wax Capped 1964 A100 "Quintessential Hammond Sound"



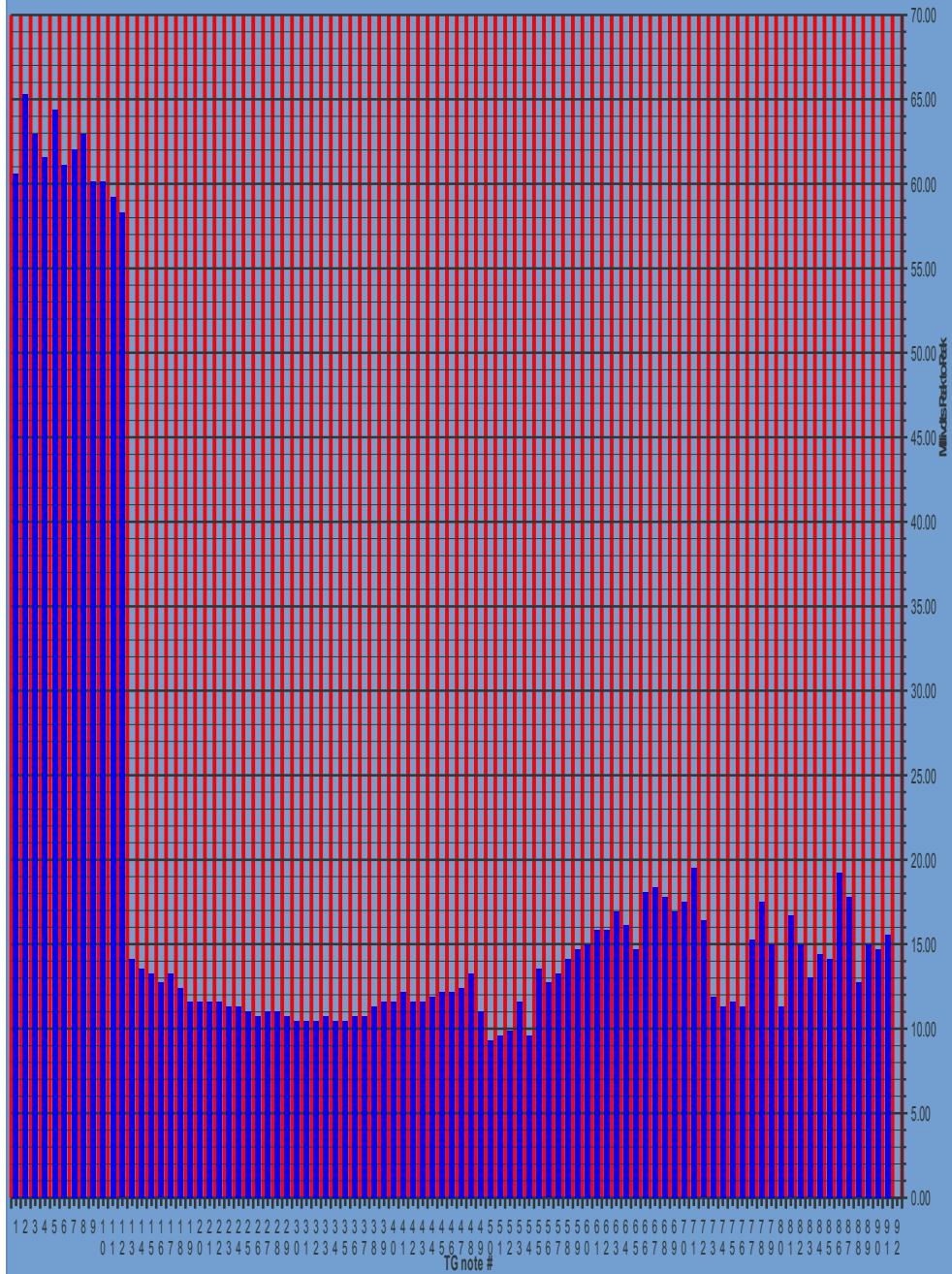
Steve's 1964 wax capped 1964 EIS chop A100. S/n 30624 Measured with Fluke 79 III "True RMS" multimeter. mV RMS levels converted to mVpp by Kon



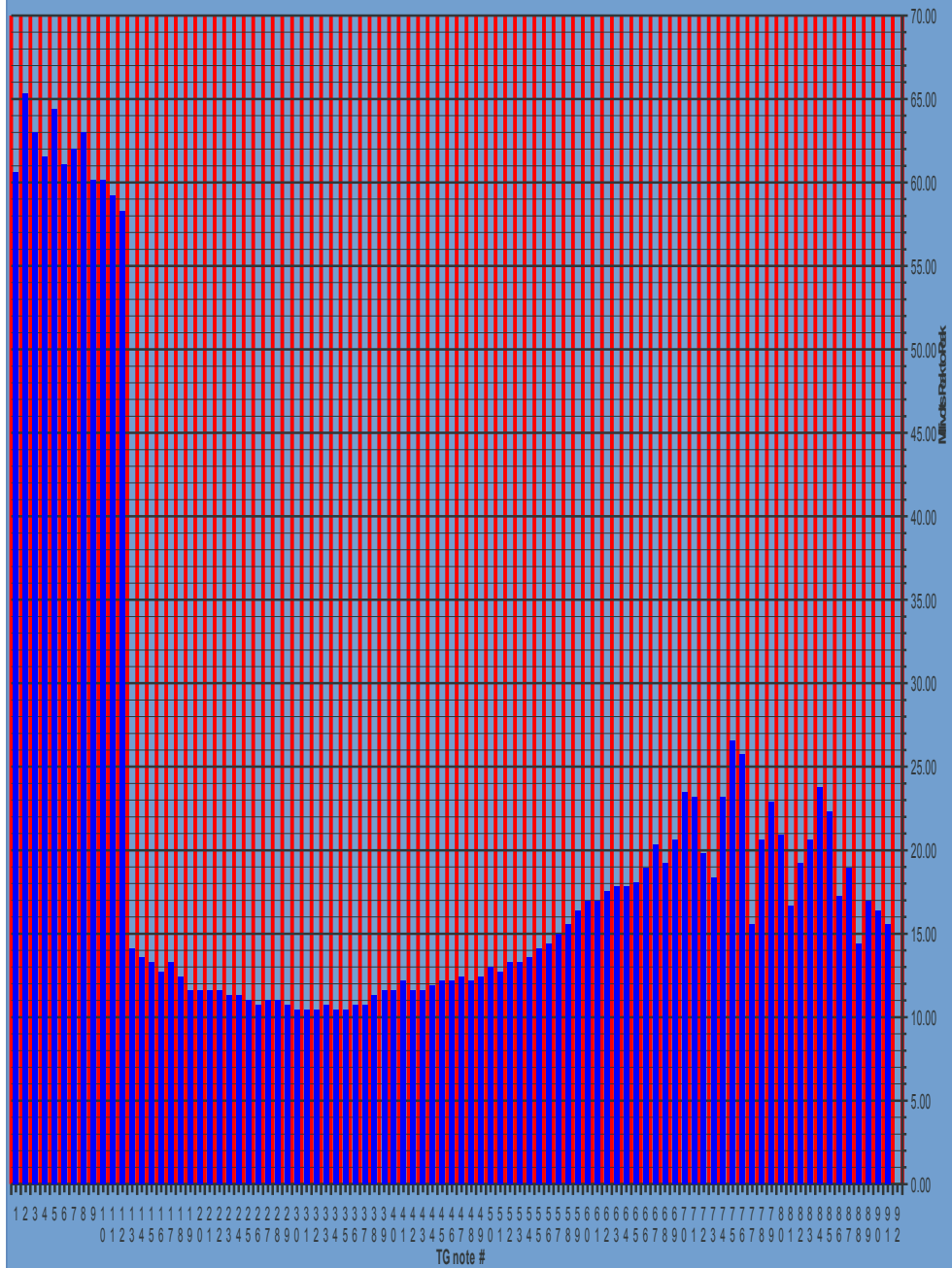
Andy's wax capped 1964 A100 s/n 37805 (UK model). 'Warm, mellow sound but lacking in air and bite - stale and lifeless top end'. mV RMS levels converted to mVpp by Andy.



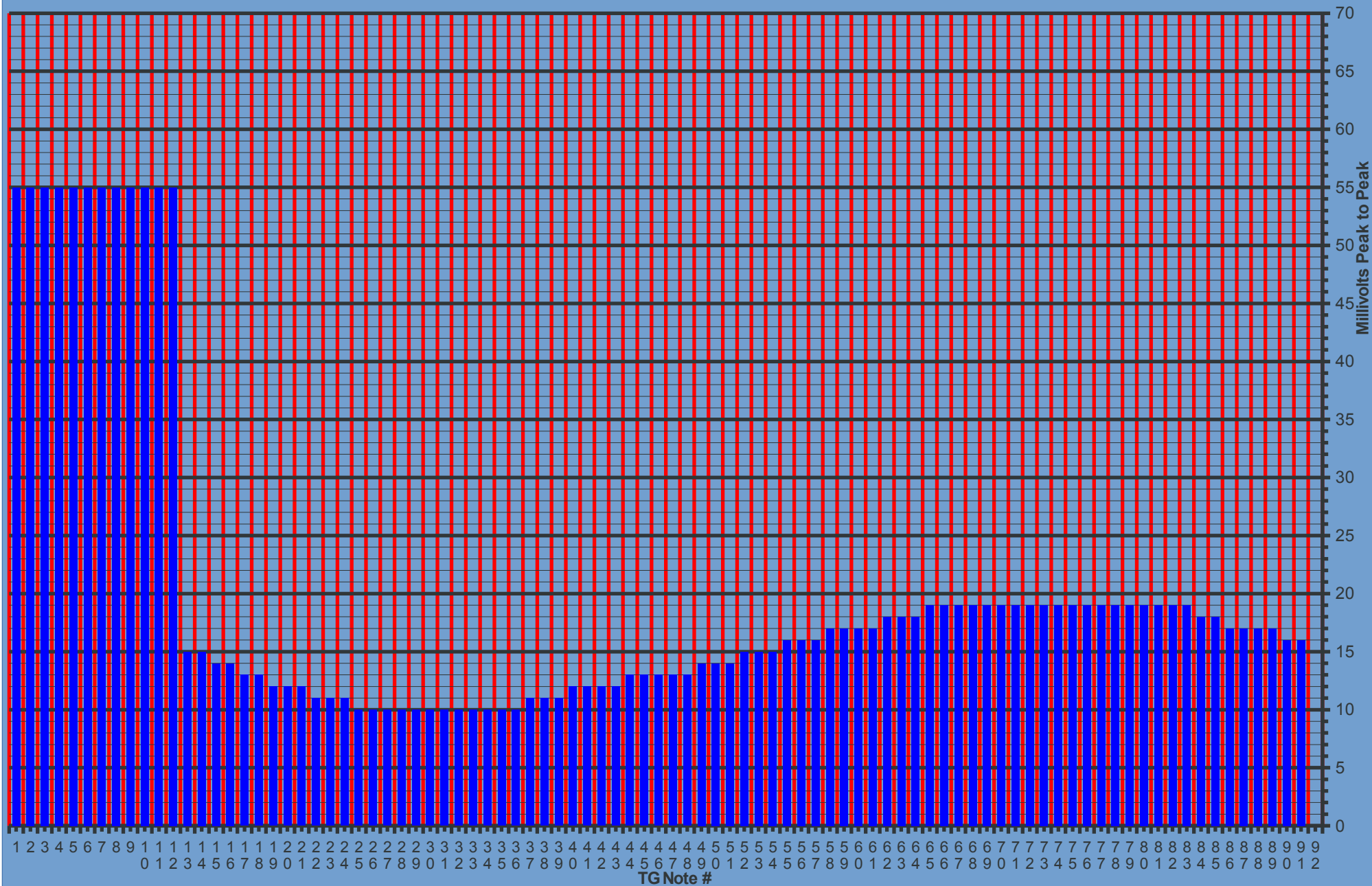
Andy's 1964 A100 s/n 37805 (UK model) recapped with Goff Prof kit. "Even without further calibration the recap was a vast improvement on the wax cap organ; I could easily have left it here but wanted more highs." mV RMS levels converted to mVpp by Andy.



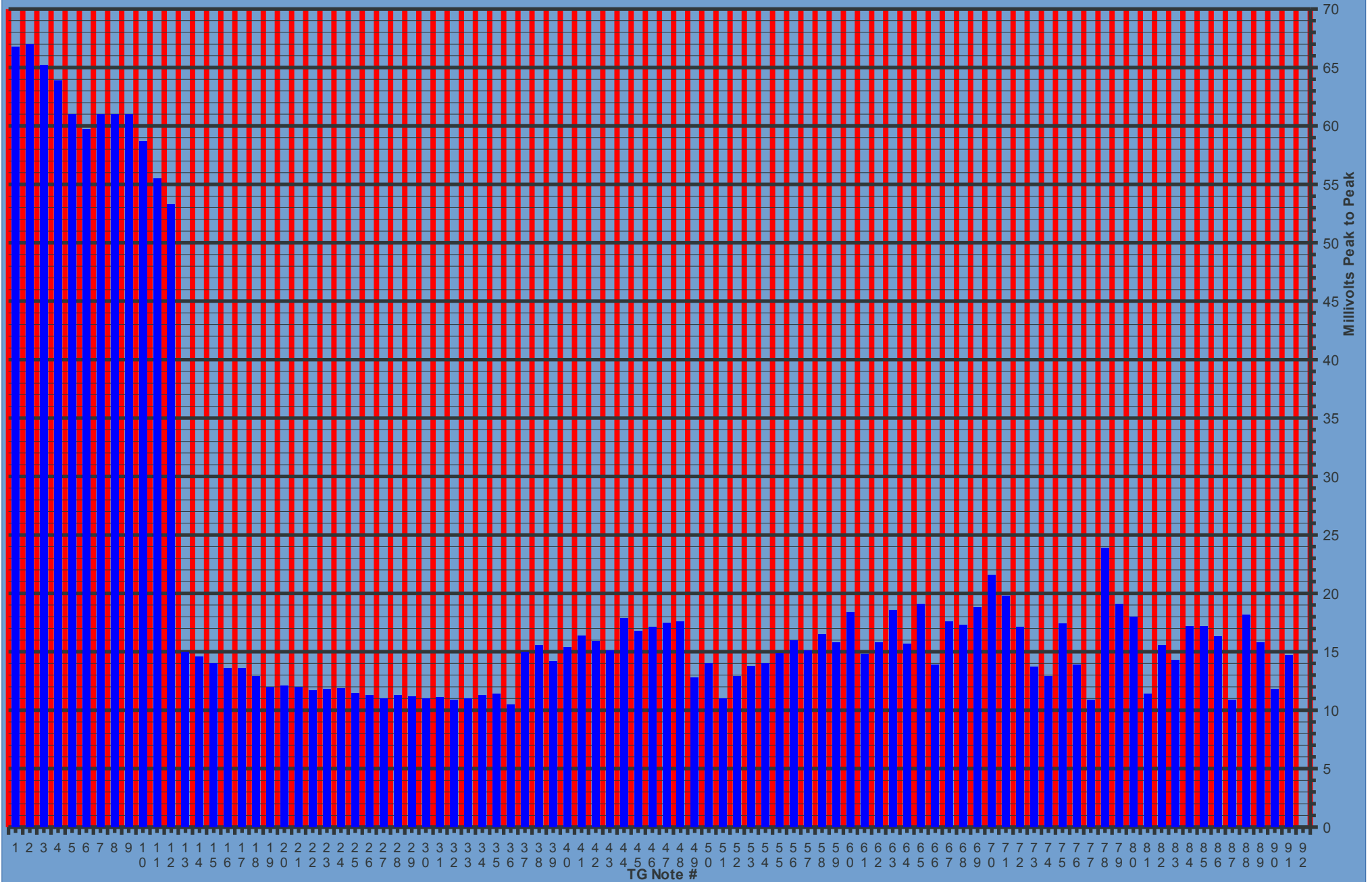
Andy's recapped 1964 A100 s/n 37805 (UK model). TG notes 48 to 91 recalibrated similar to Pat's 1969 B3 by Andy. "The icing on the cake after the recap; sounds great through 147 with V21 driver. Deep lows, warm mids, bright screaming highs but not harsh."



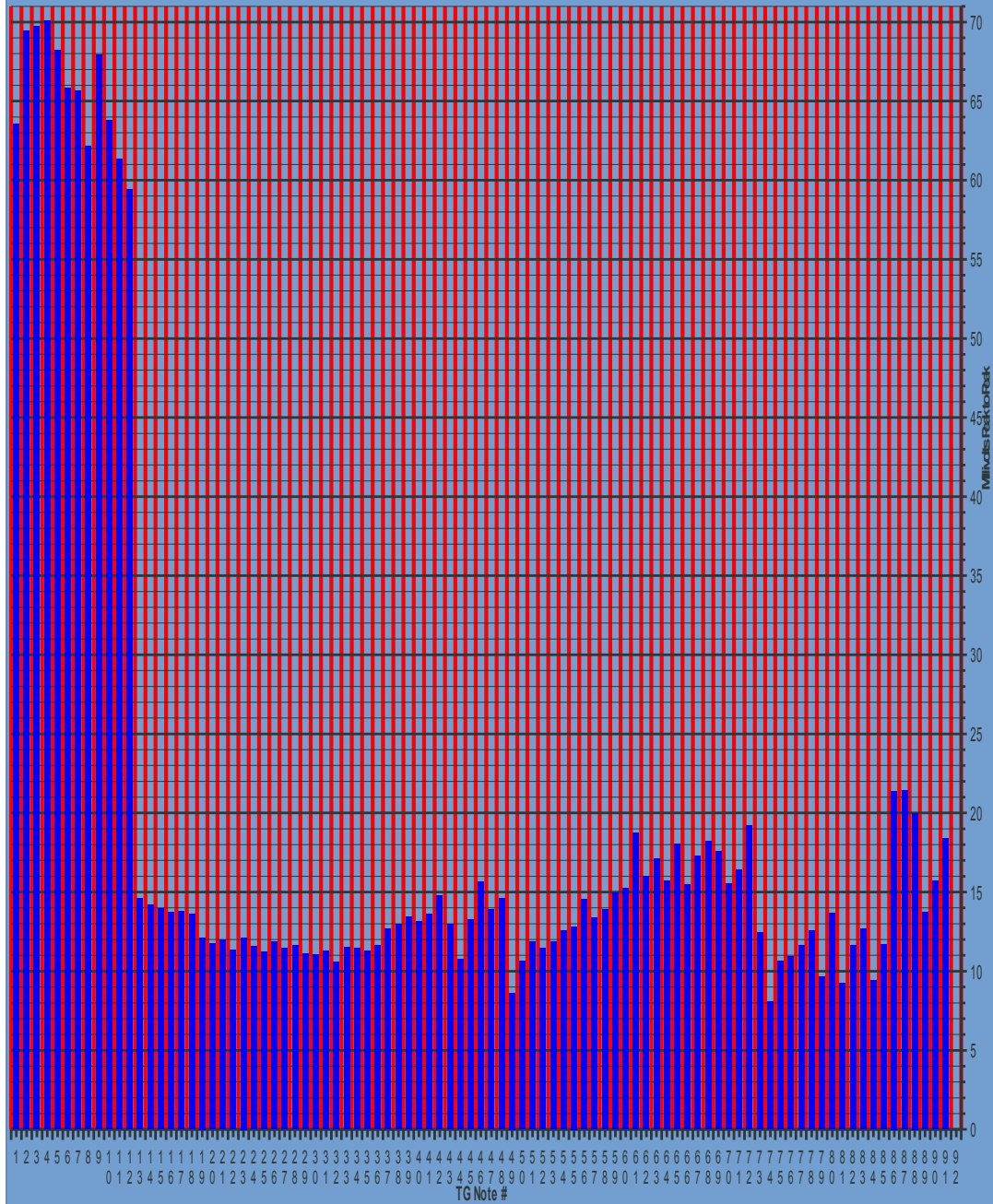
Carsten's friend's A100 . Values "Normalised". www.tonewheel.de



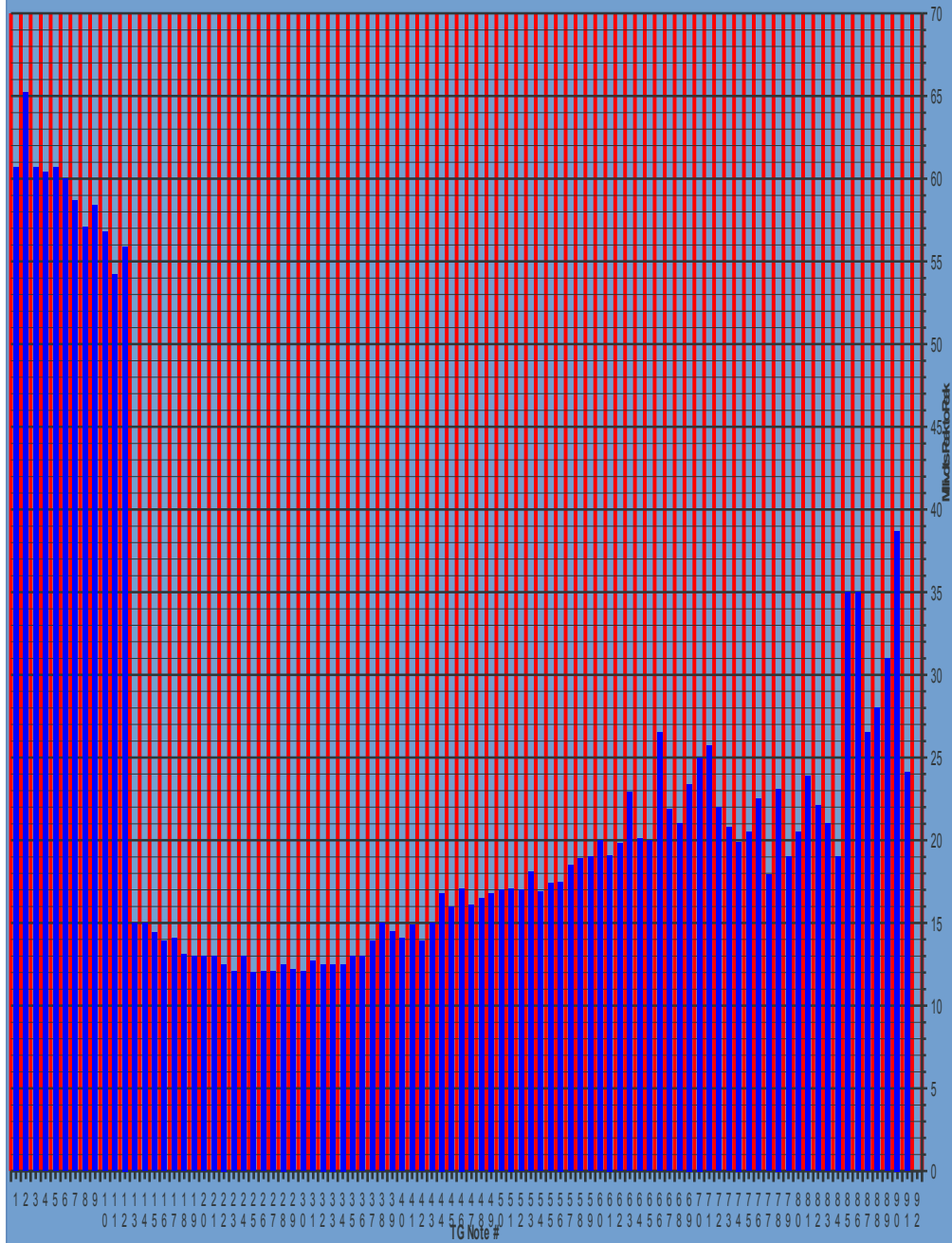
Simon's 1965 ? A100 with red mylar capacitors. TG not in organ . Measured by Kon.



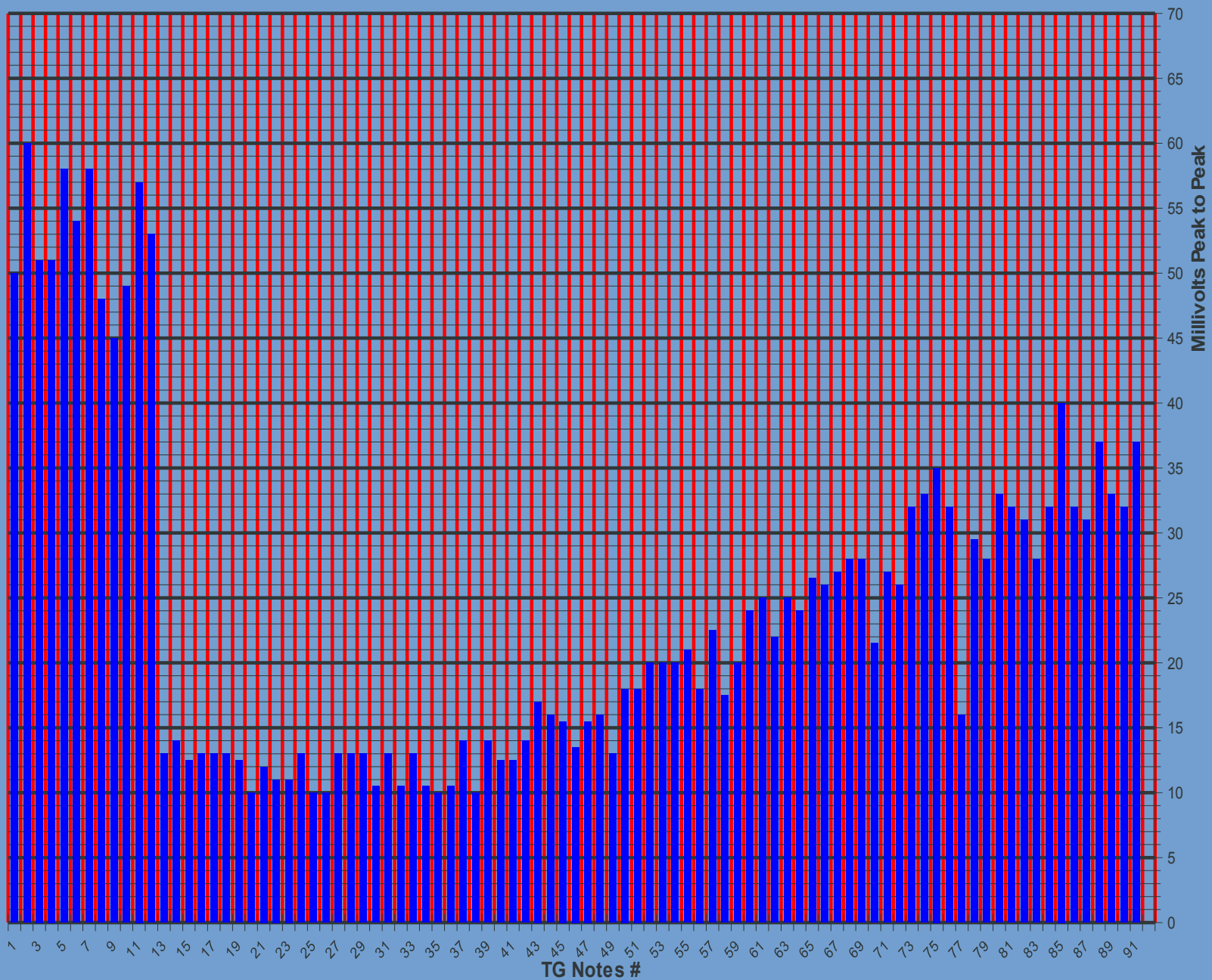
Marcel's red mylar capped 1965 A-100. S/n 42188 Measured with Velleman DVM200 True RMS meter. mV RMS levels converted to mVpp by Kon. "The A100 is smooth, warm percussion, great in the lower octaves and smooth in 4 and 5."



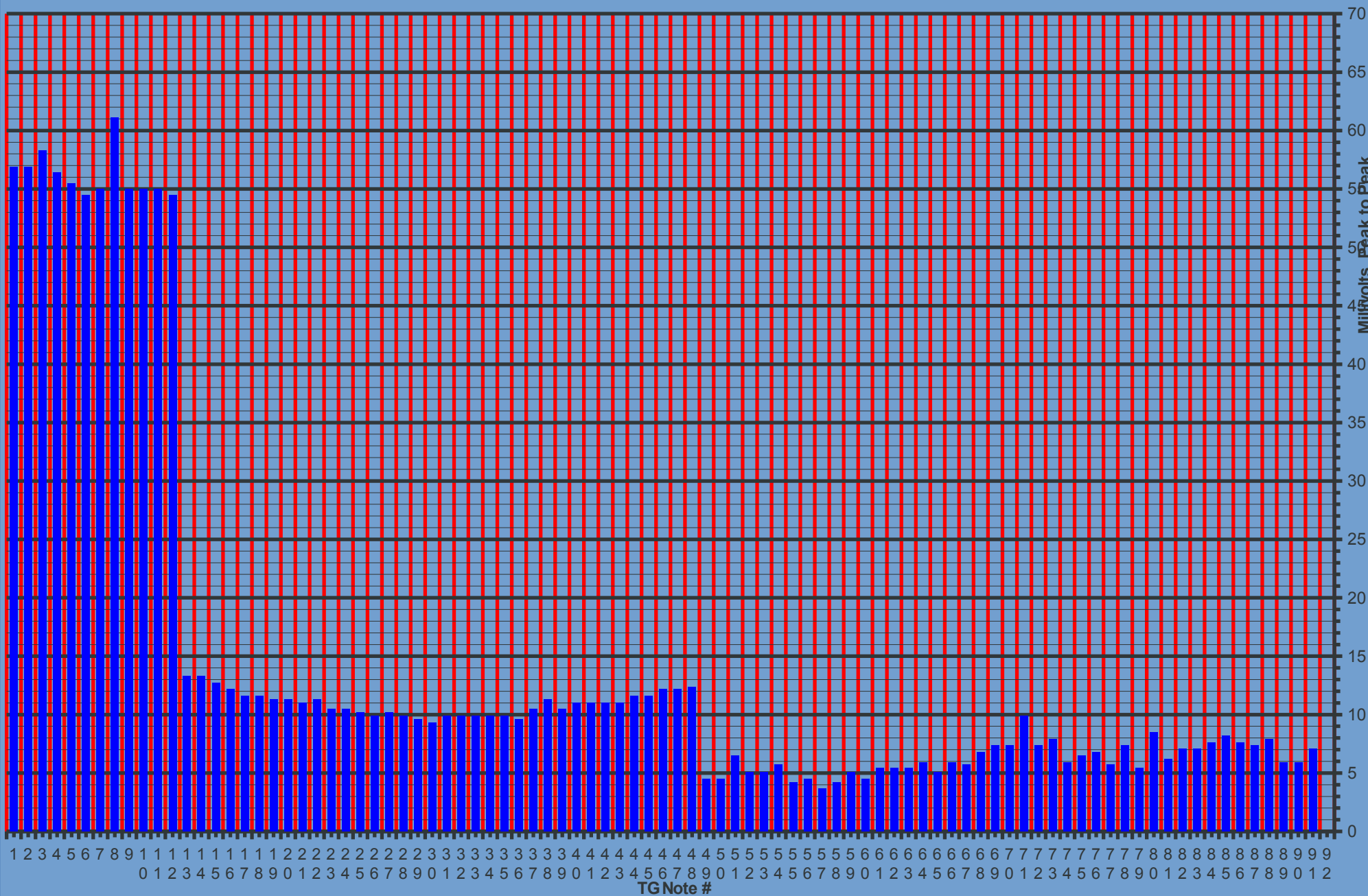
Daniel F's UK built 1966 red mylar capped A-100. S/n 44616 Solid and bright but not too shrill sound with nice "airiness". Great overdrive sound, good for late 60's / early 70's Progressive Rock/ Heavy Rock music. Measured by Kon, 18 June 2008.



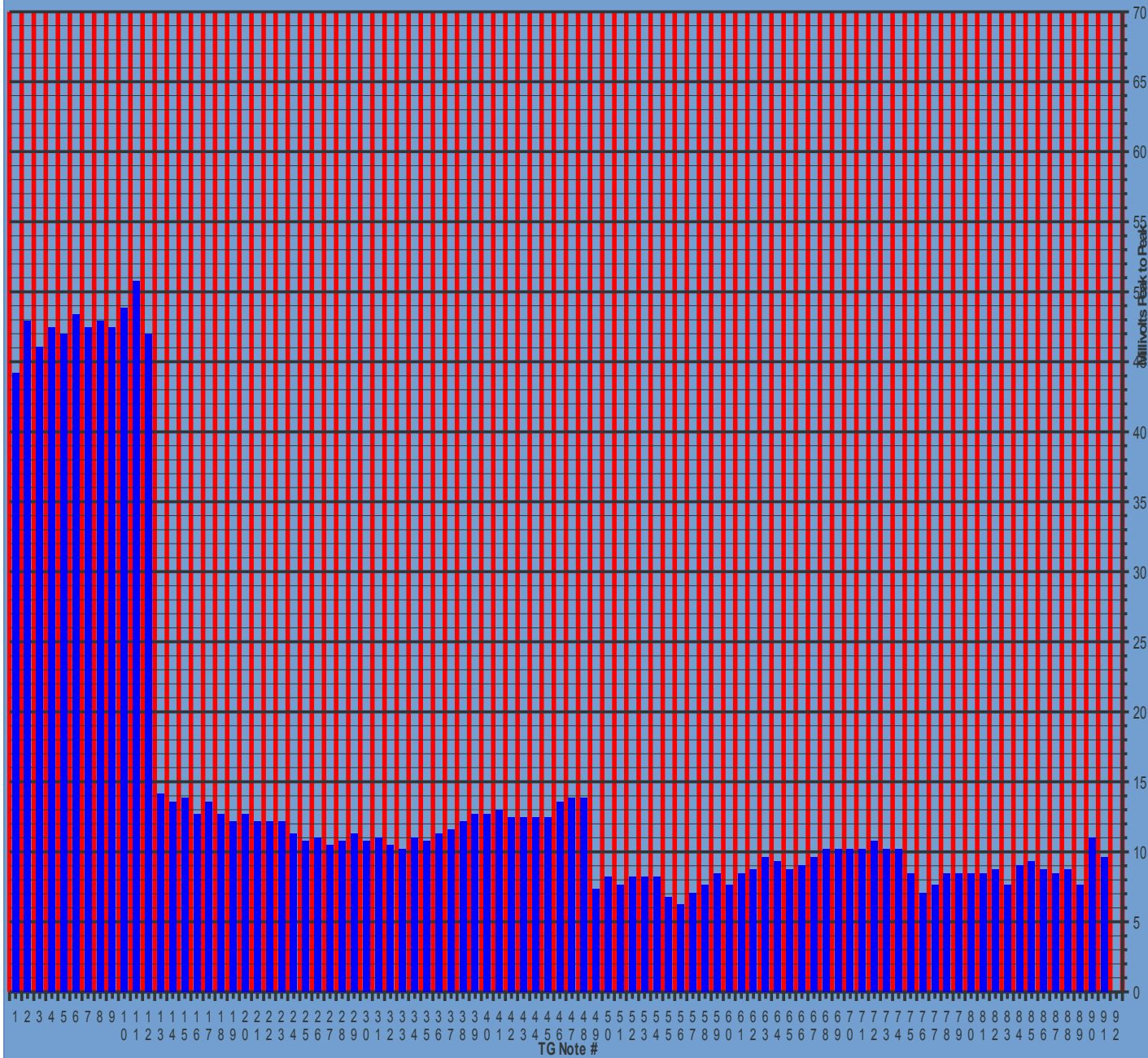
Staffan's Late 60's /Early 70's ? A100. With red mylar caps. " Too bright" . "This overly trebly sound is getting on my nerves".



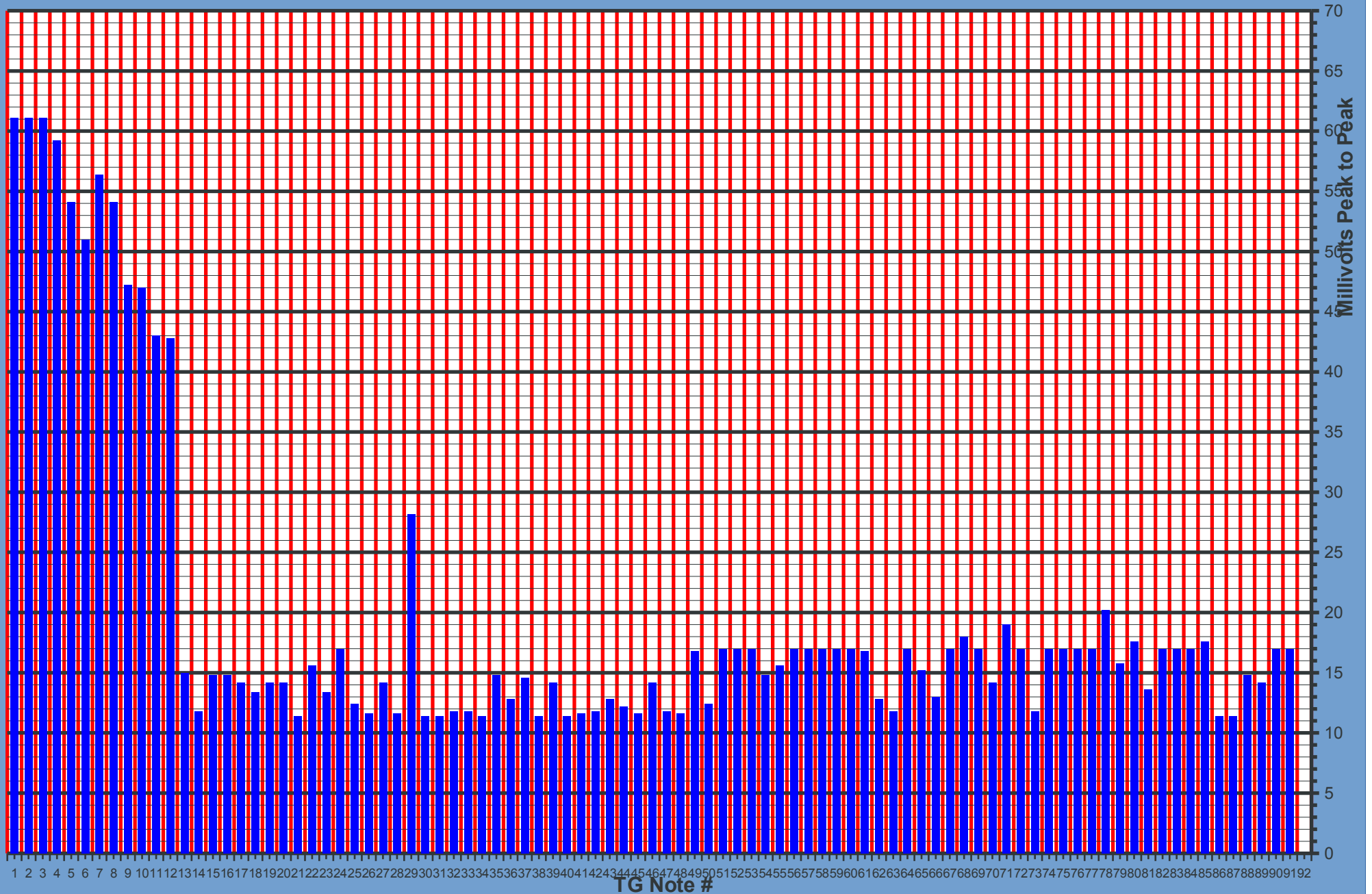
1961 A101 With wax capacitors "Nice mellow sound"



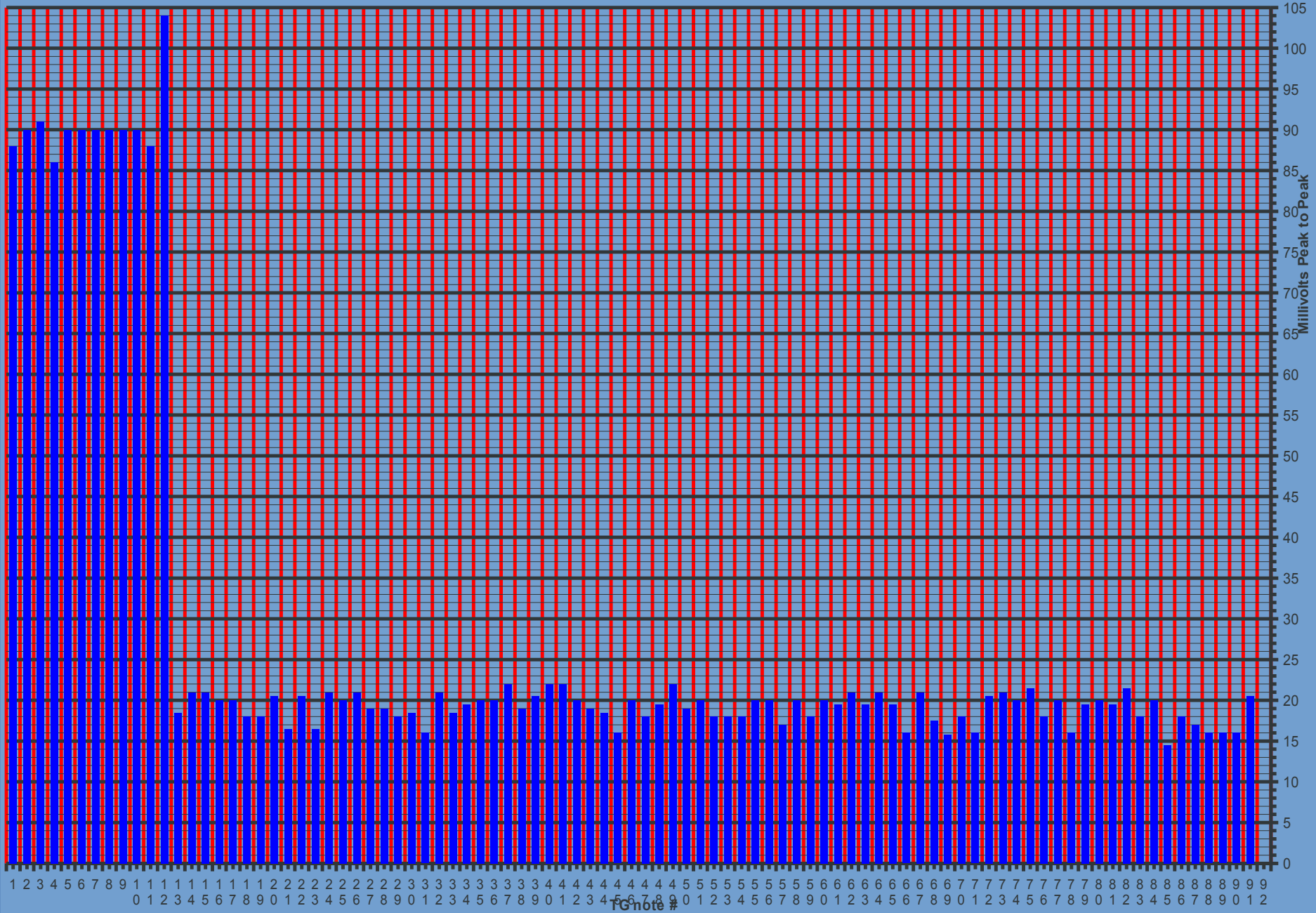
Matthias's wax capped 1961 A-102 S/n 20065 "Big amount of bass response and the higher notes tend to sound a little bit harsh". mV RMS levels converted to mVpp by Kon.



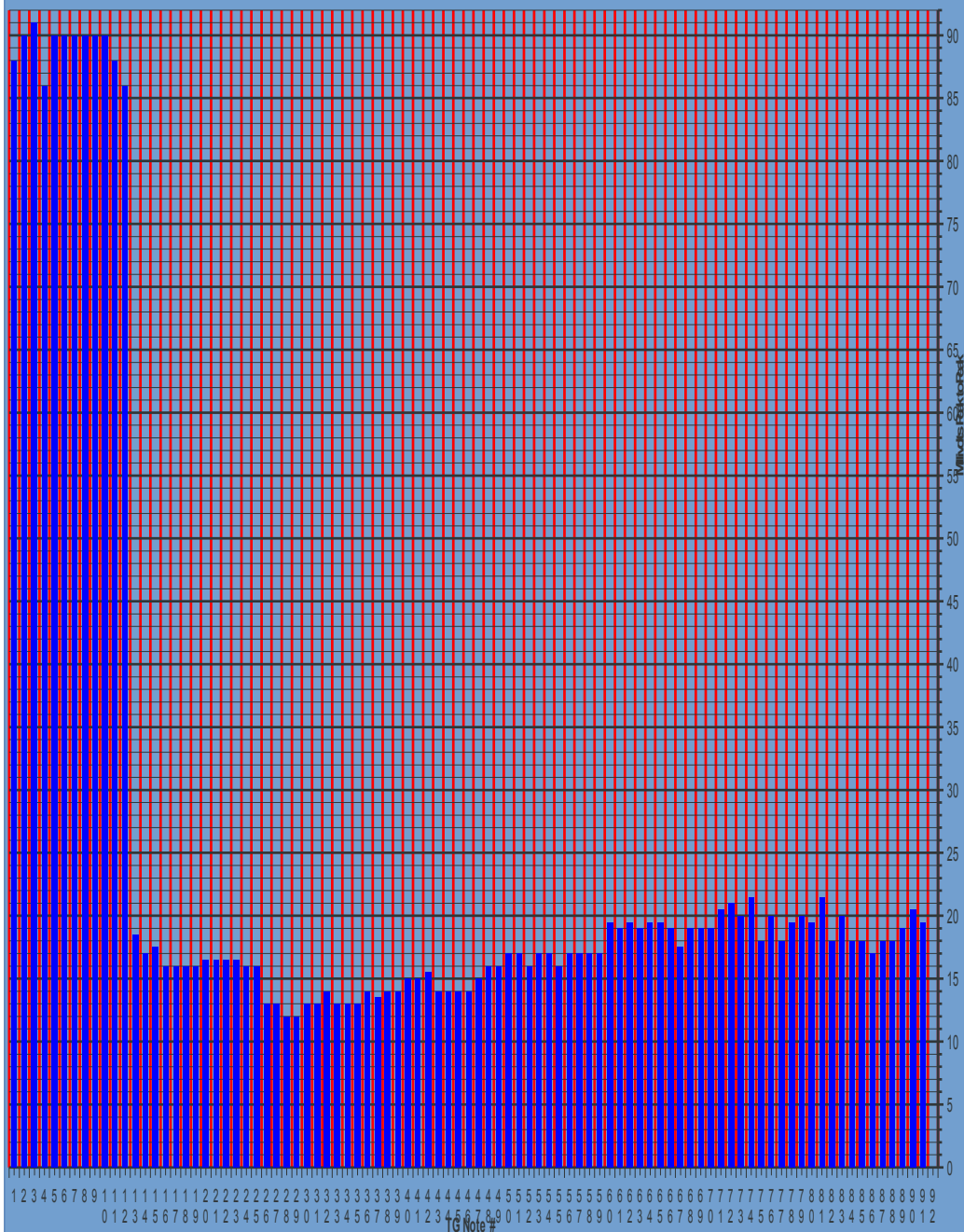
Dominik's A102 Recapped with Goff kit



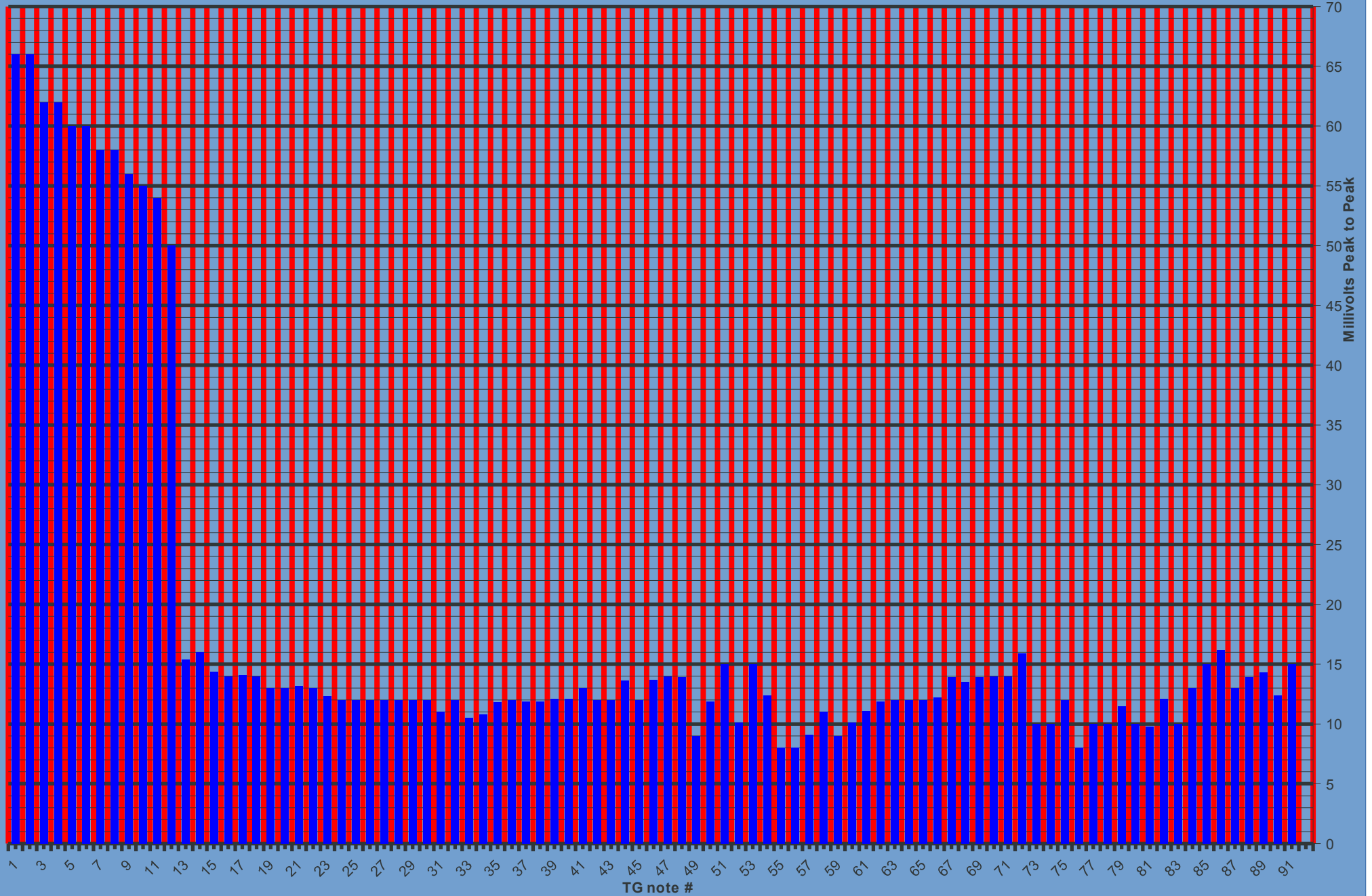
Dominik's 1962 A-102 2001 recalibration. Recapped with Goff cap kit & RC hum filters. "Mids too pronounced. Treble too low".



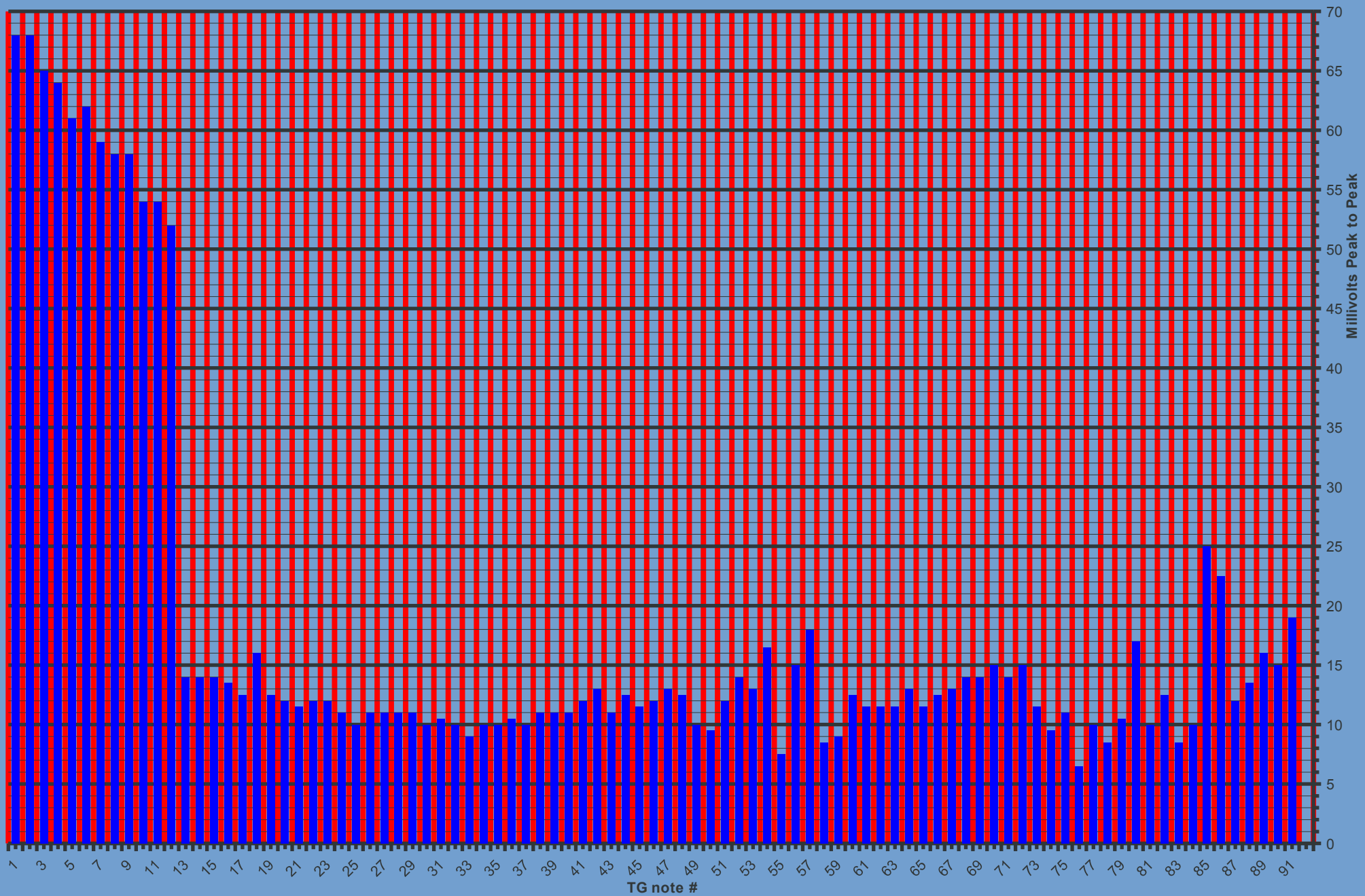
Dominik's 1962 A-102. Dec 2005 recalibration. Recapped with Goff cap kit & RC hum filters. "My A102 sounds very nice now, with a buttery low mid, strong bass and glassy top end without shrillness", "Fantastic sound. Nice mids , bright highs "



Srdjan's wax capped 1964 A-102



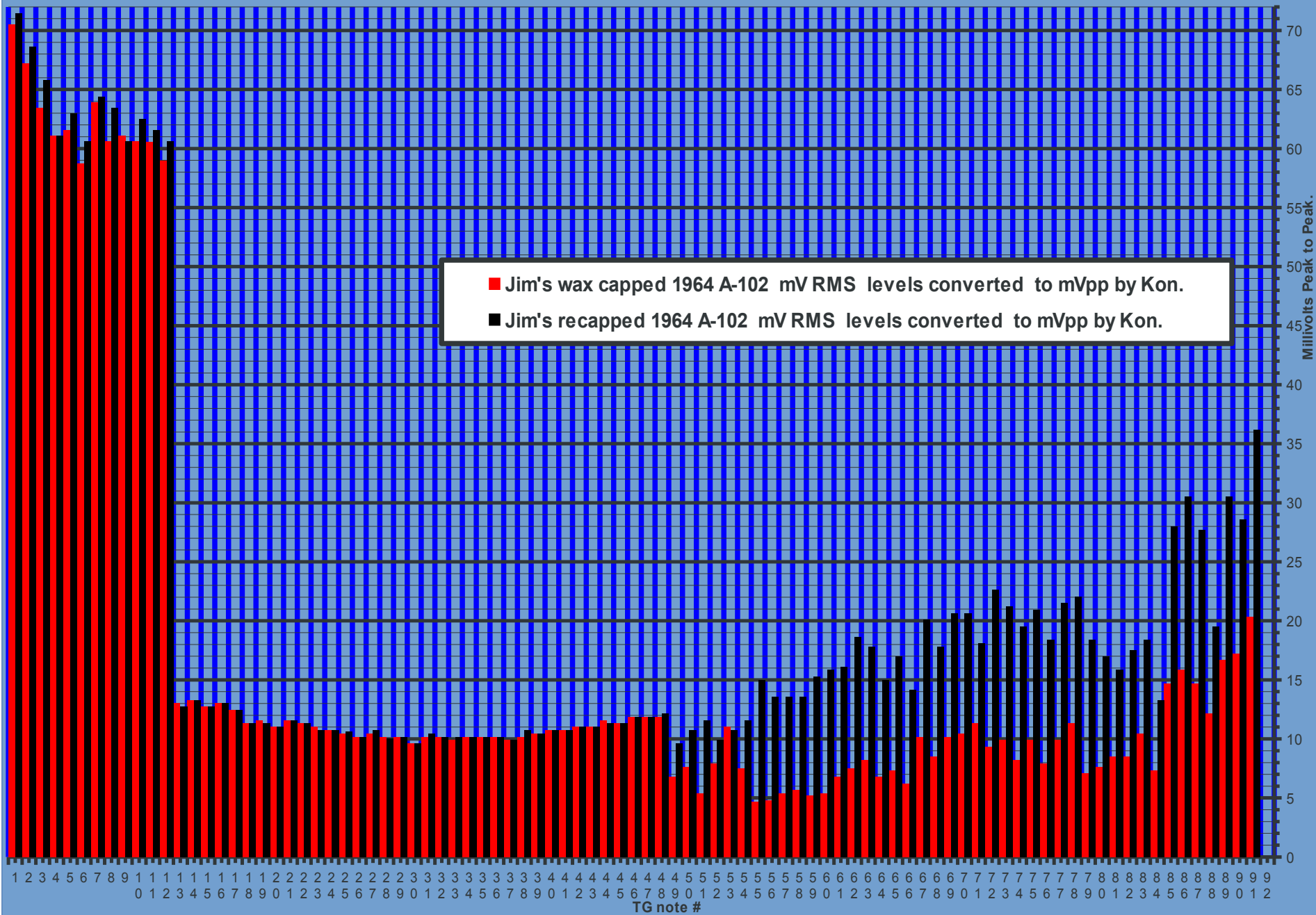
Srdjan's recapped 1964 A-102



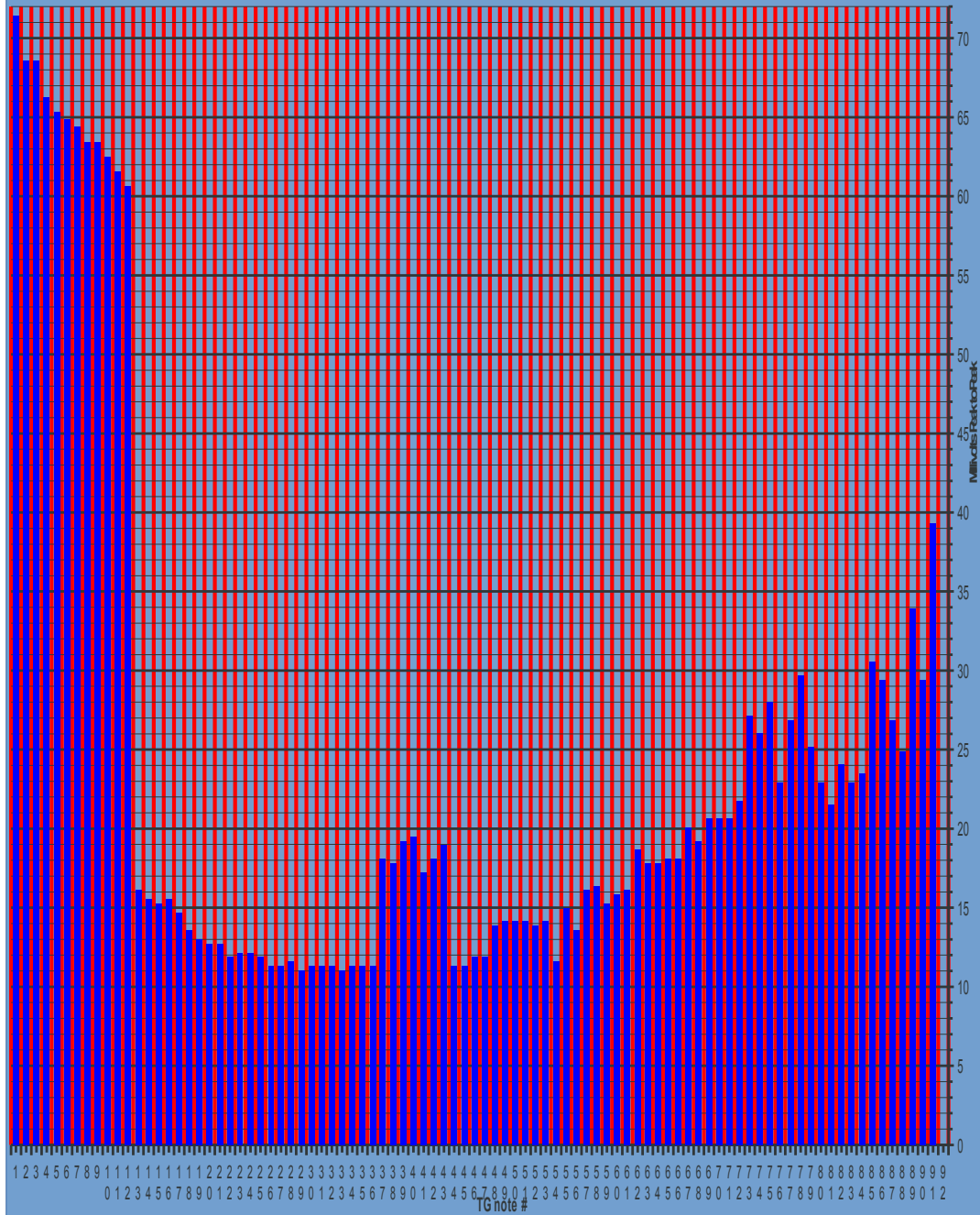
Srdjan's recapped and recalibrated 1964 A-102



Jim's 1964 A-102. Comparison between the old wax caps and the new capacitors. mV RMS levels converted to mVpp by Kon



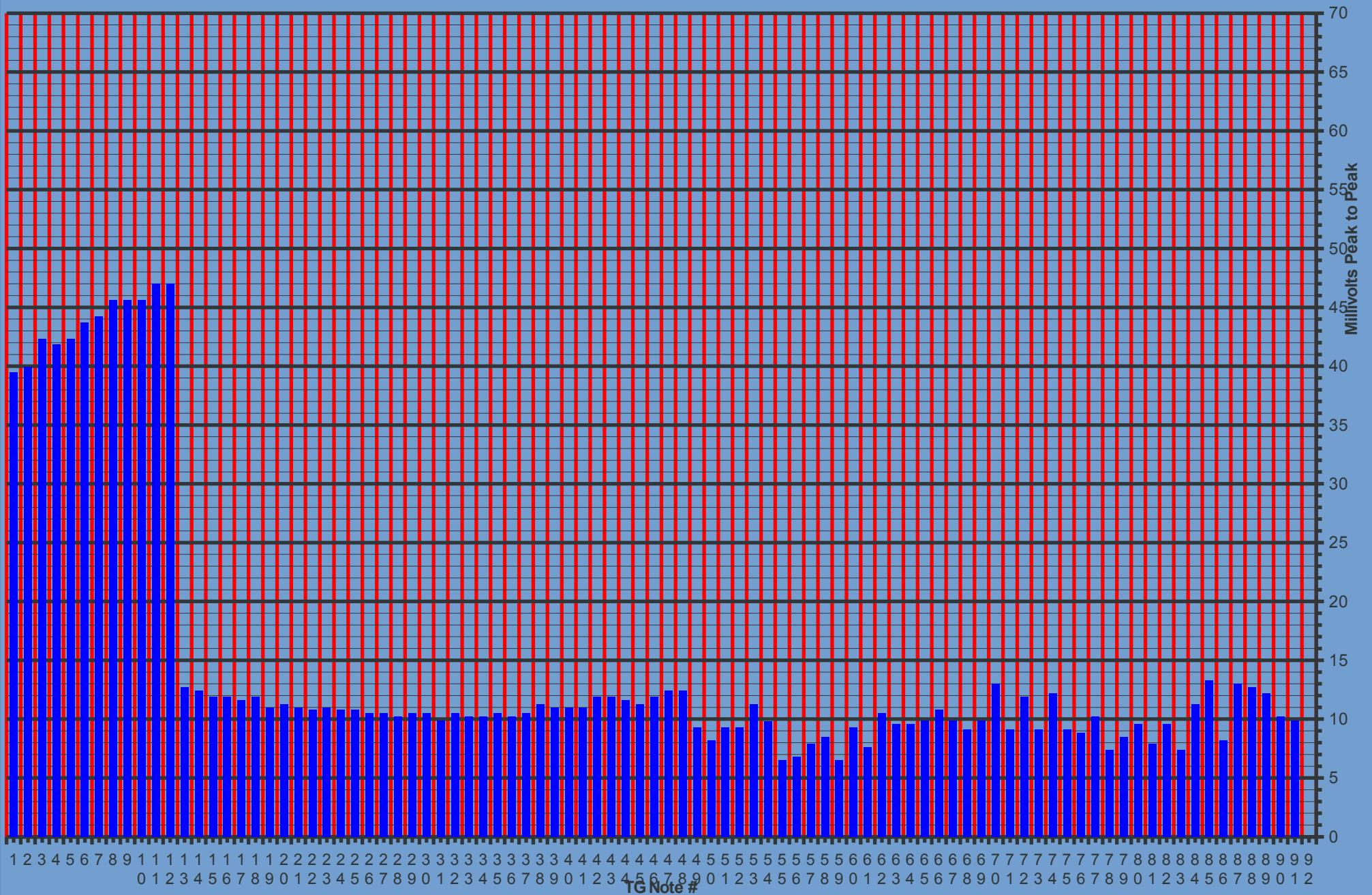
Jim's recapped and partially recalibrated 1964 A-102. Shunt resistance wires of the TG pickups 37 to 43 and the inductors of the TG notes 44 to 48 removed and replaced with the Goff 47 uf / 10 ohm RC hum filters. mV RMS levels converted to mVpp by Kon.



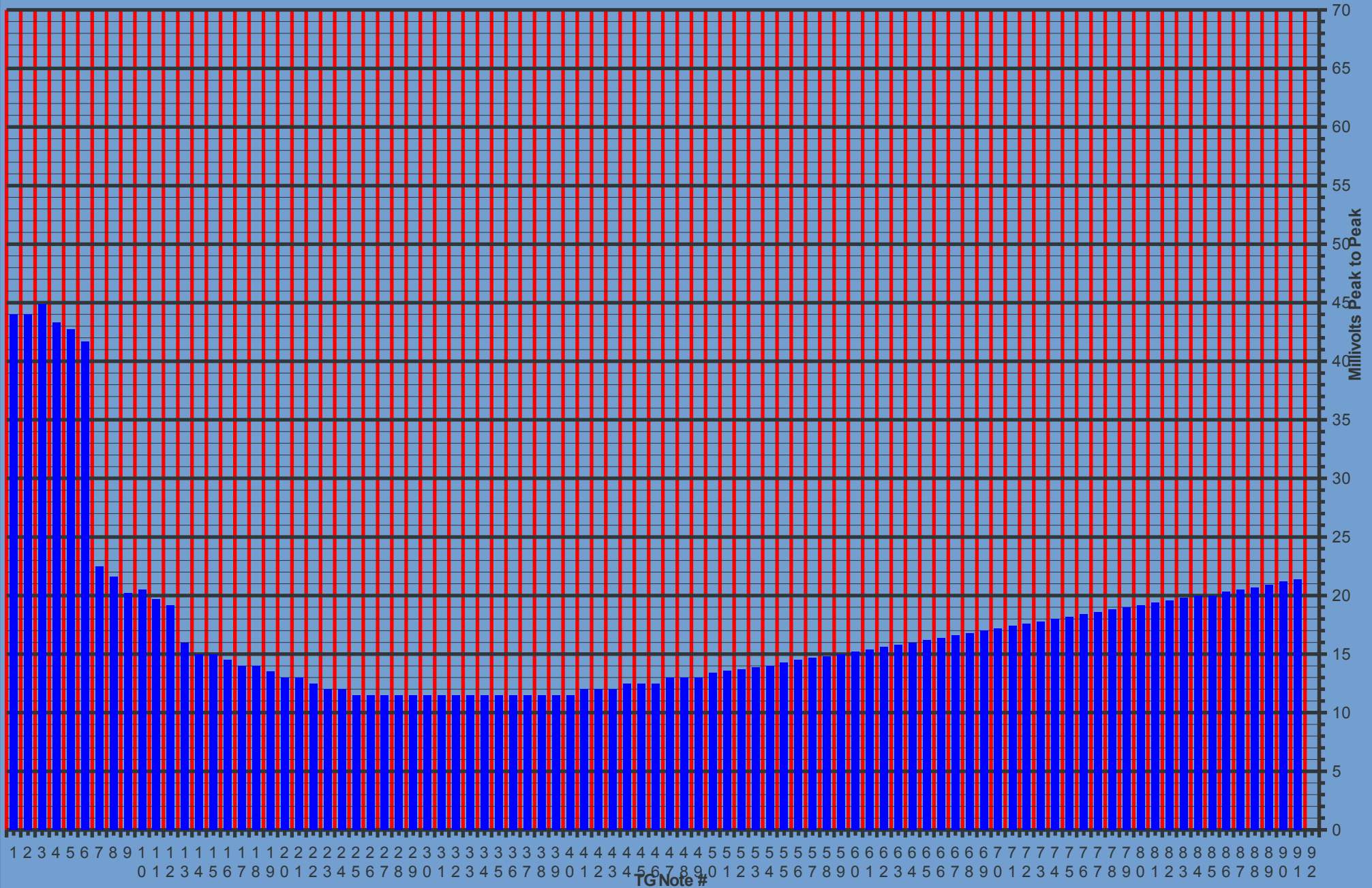
Jim's recapped 1964 A-102 Recalibrated similar to Kon's theoretically possible Hammond factory TG output curve specs. "Awesome sound through the Leslie 21H " mVRMS levels converted to mVpp by Kon.



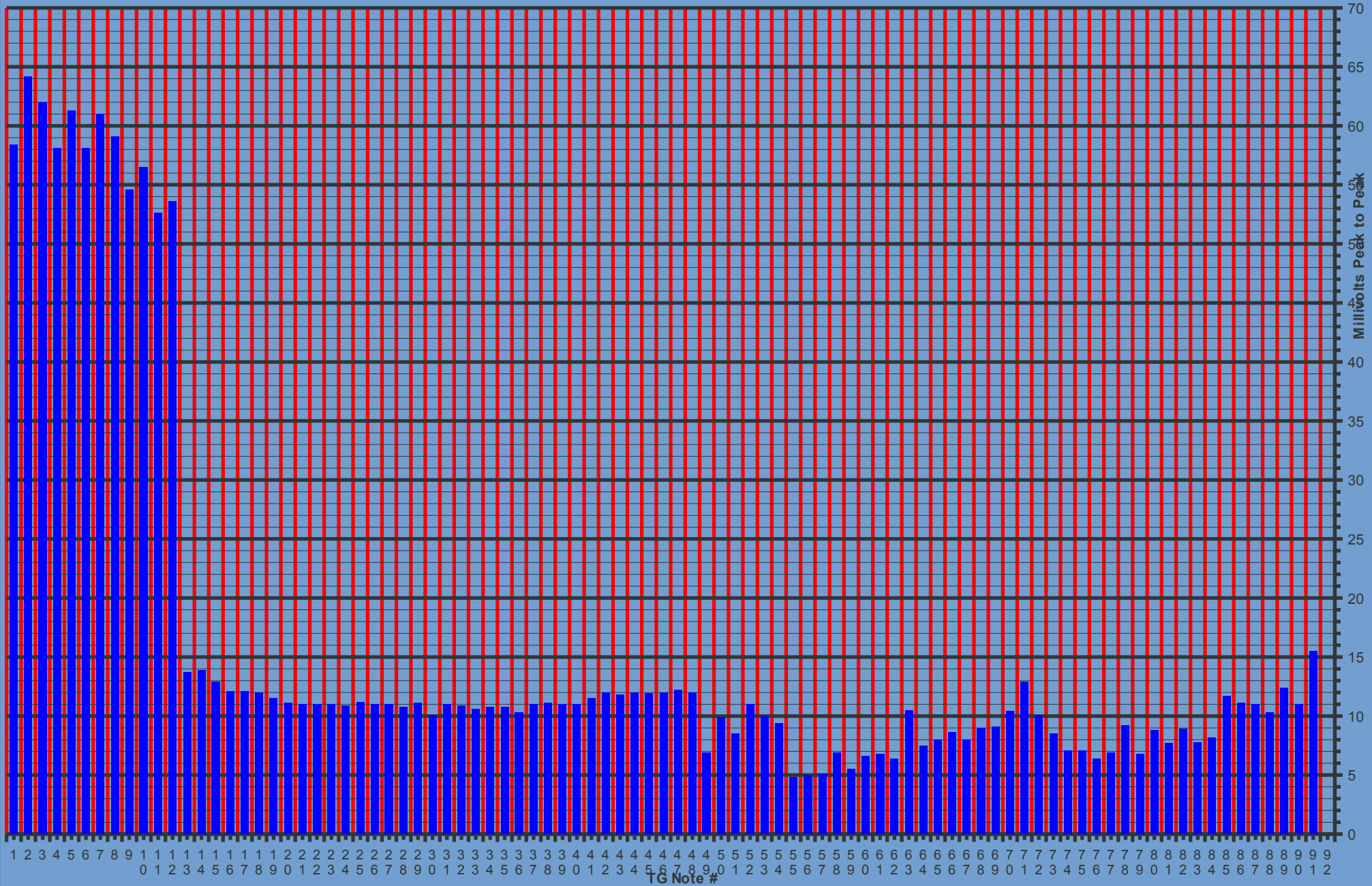
Charles's 1963 A103 Wax Capacitors. mVRMS levels converted to mVpp by Kon.



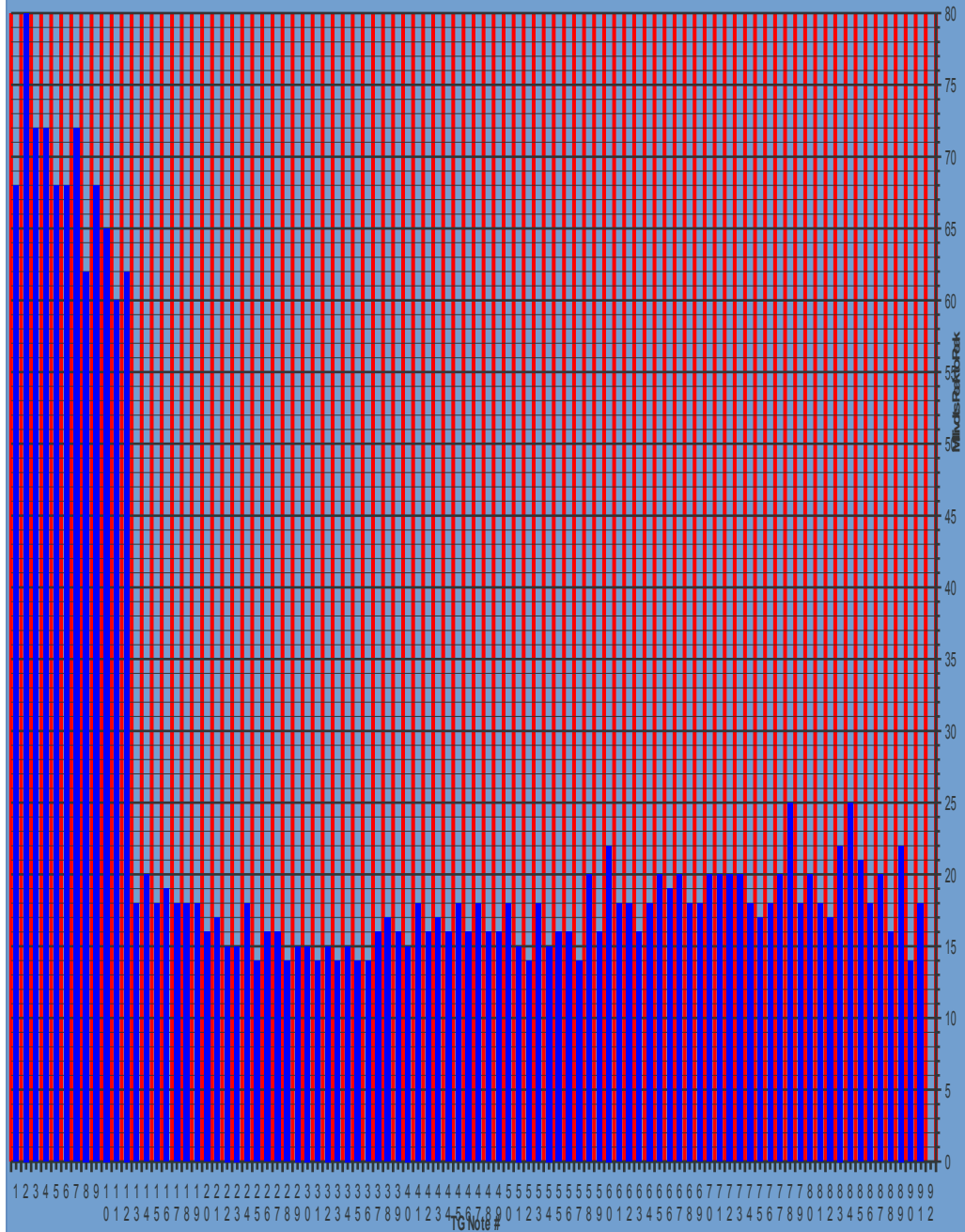
Charles's 1963 A103 Recapped & recalibrated.



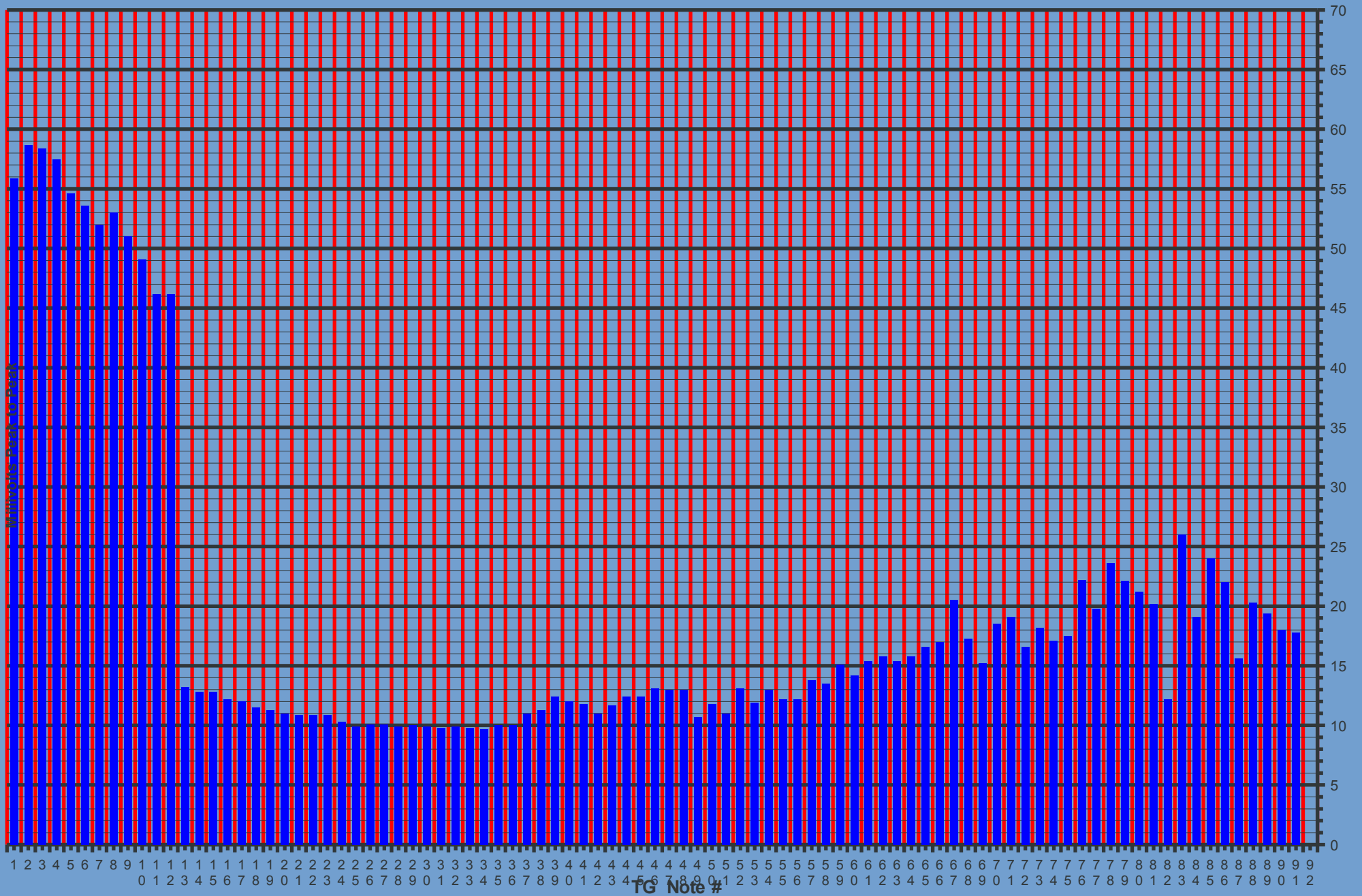
Gary's 1962 - 63 ? A105 S/n 25619 Wax capacitors. Nice sweet sound. Measured by Kon



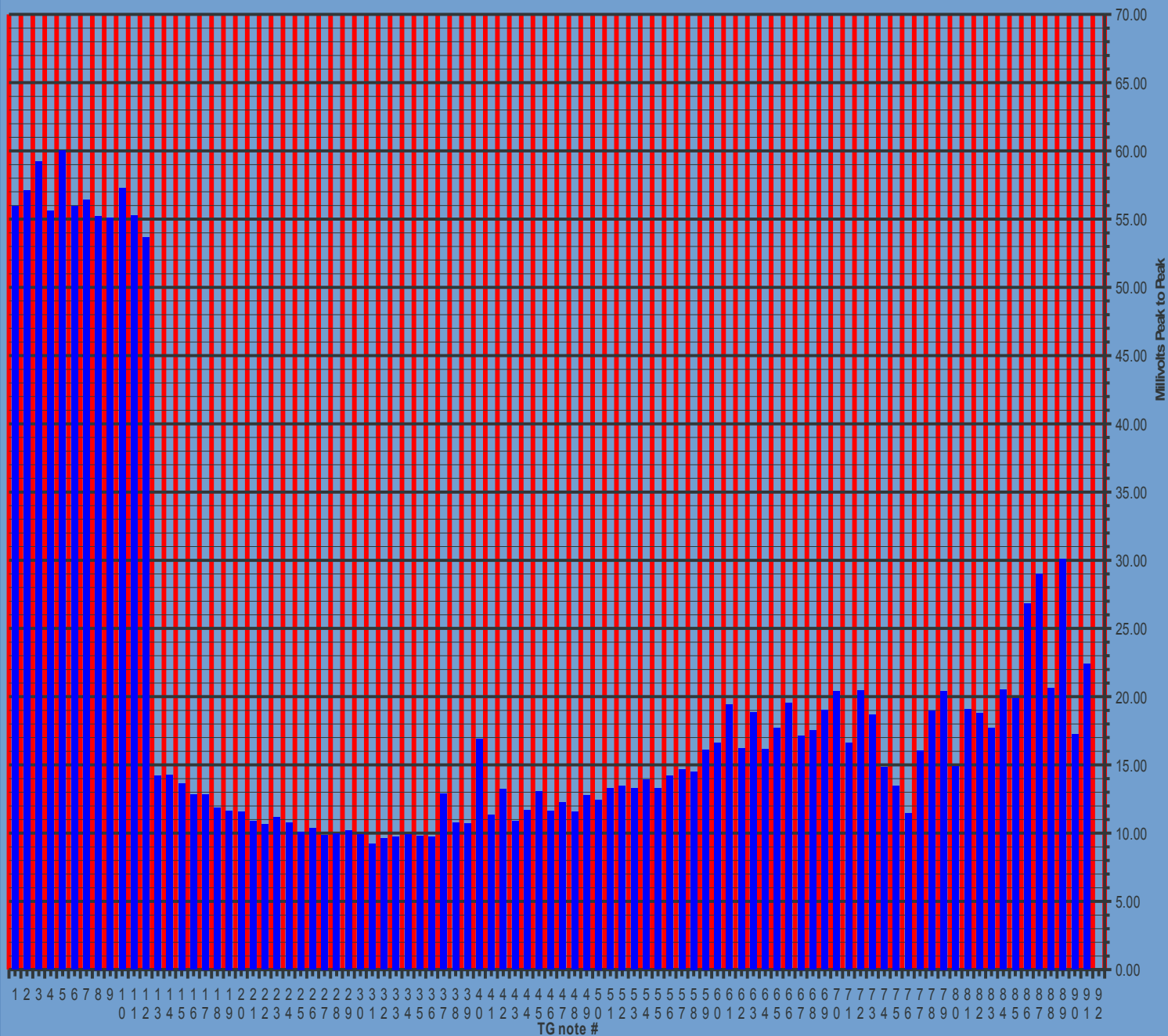
Lars H's wax capped 1963 A105. S/n 25626. "Warm sound, a quite bright treble and nice leakage, however the sound has deteriorated a bit over the last 10 years. The levels are a bit uneven, the sound should benefit a slight raise of the treble notes."



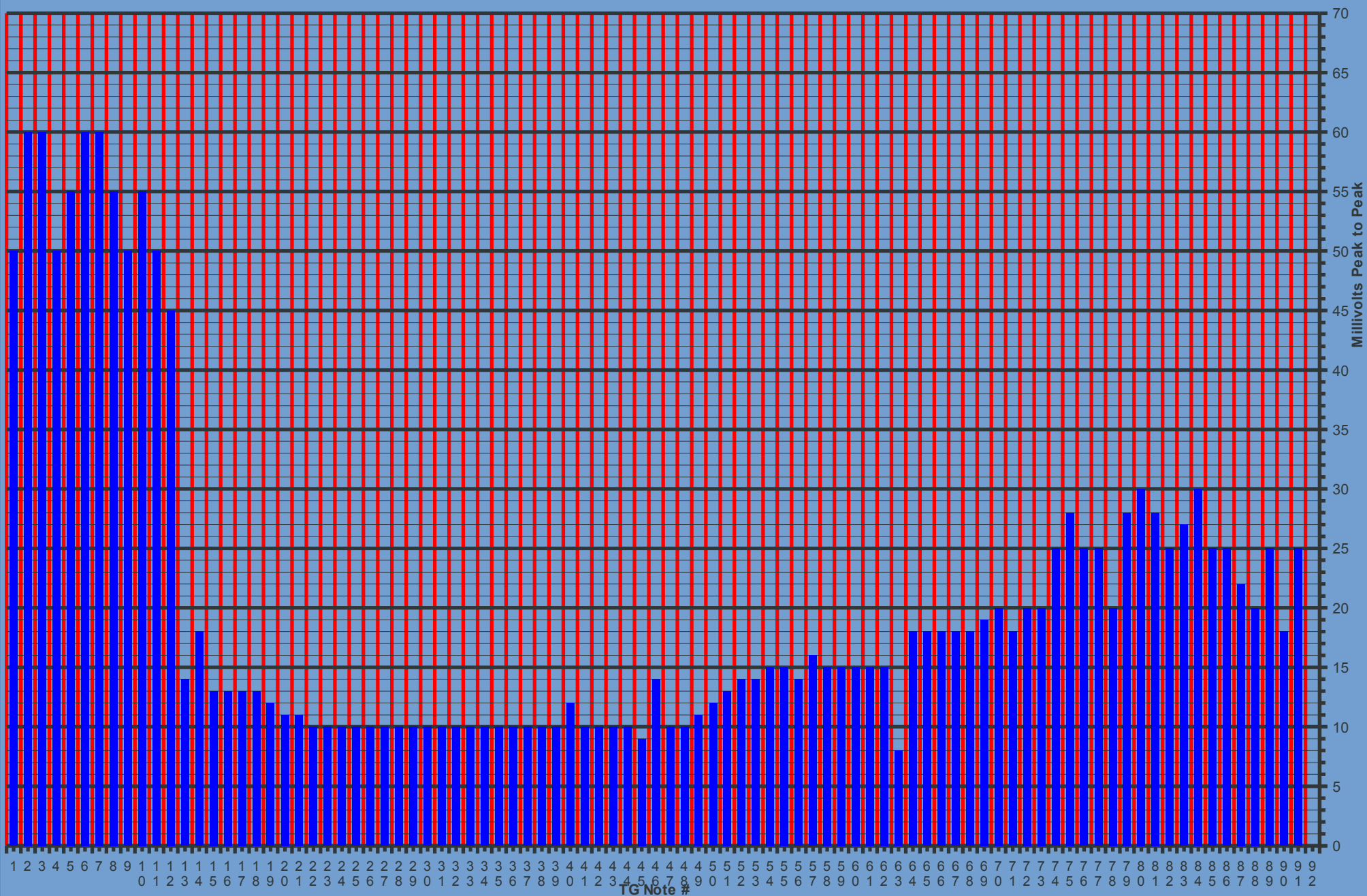
Simon's mid 60's A105 s/n 26172 With red mylar capacitors Measured by Kon.



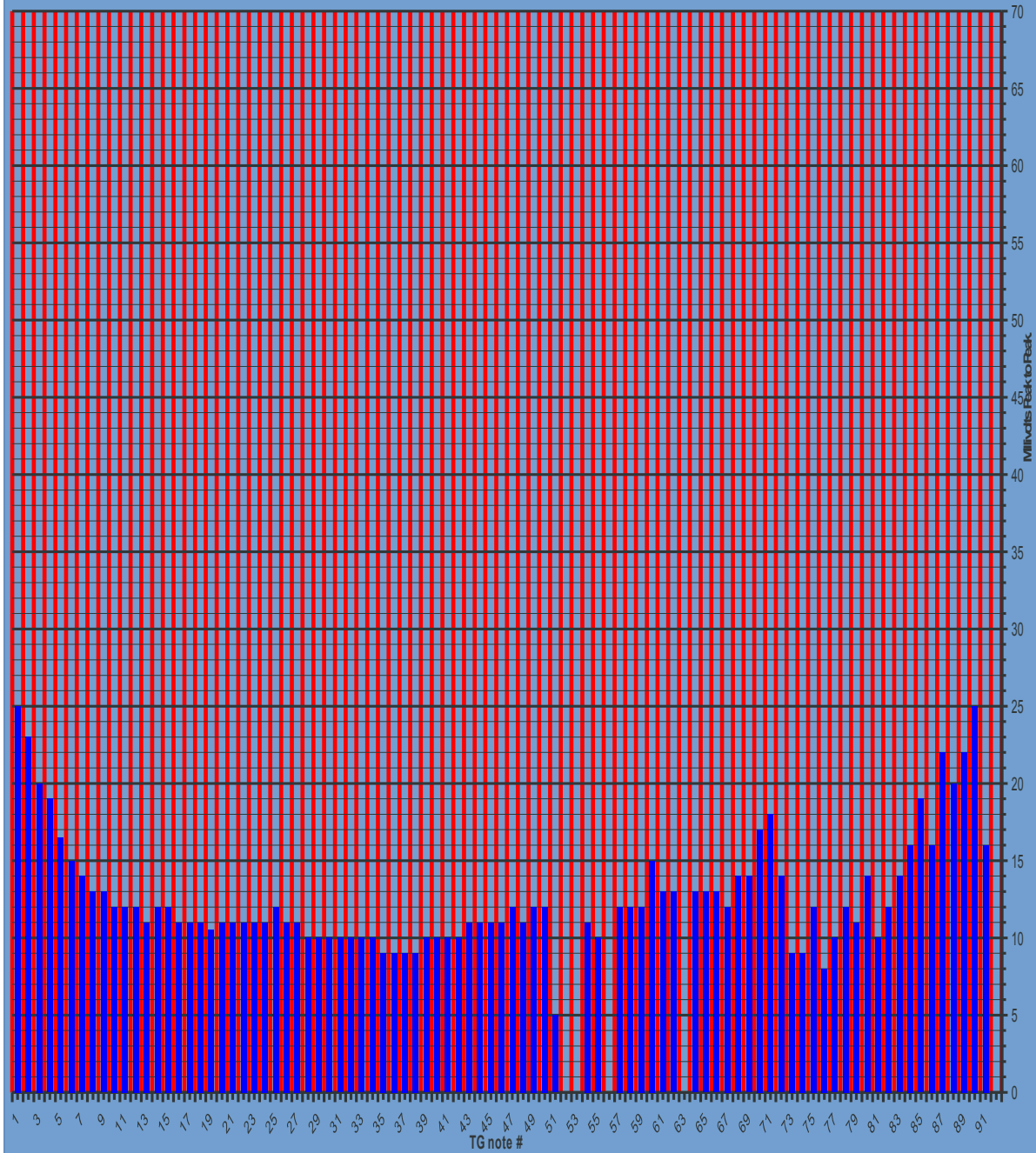
Marcus's red mylar capped 1973 A122. S/n E247337. Measured by Peter with Fluke 187 multimeter, 30 August 2016. mV RMS levels converted to mVpp by Kon.



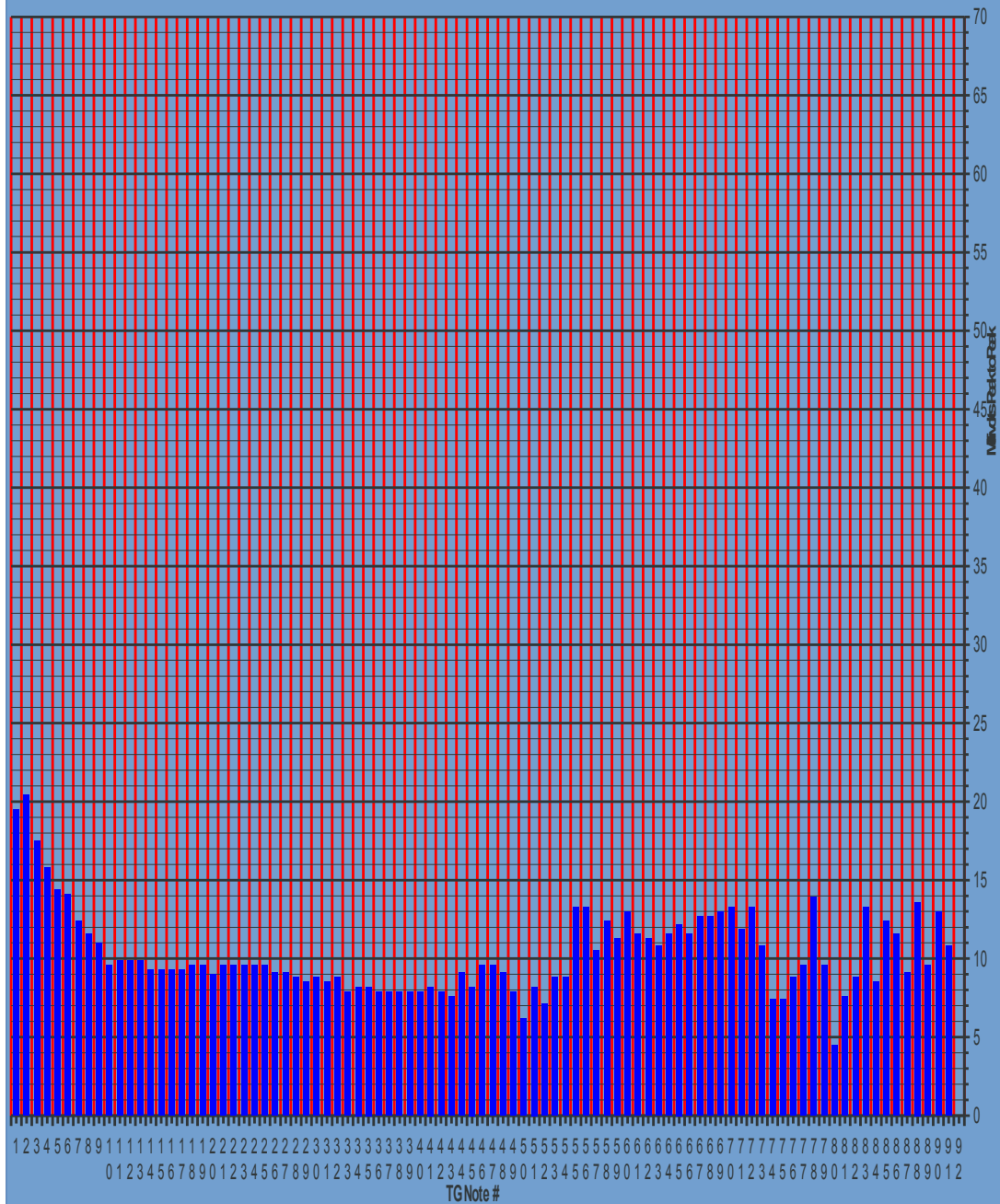
Ruddy's late 60's / early 70's ? A-162 S with red mylar caps . S/n E 248742



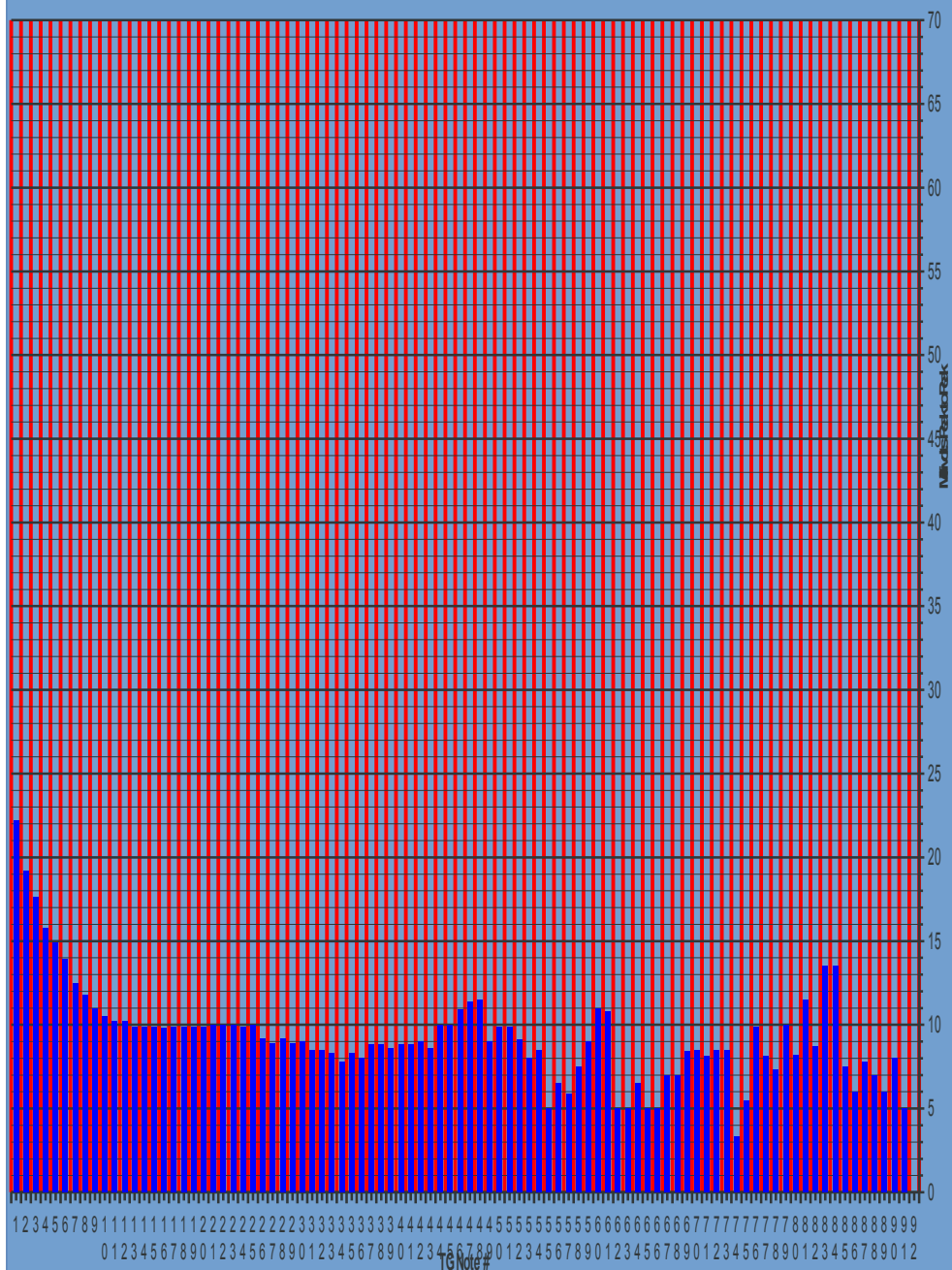
Wax capped 1938 Aeolian-Hammond Model BA S/n 9142 measured by Nathan. "The organ had crosstalk and a few dead generator notes. Caps were saturated with oil to the point of melting, but organ still played."



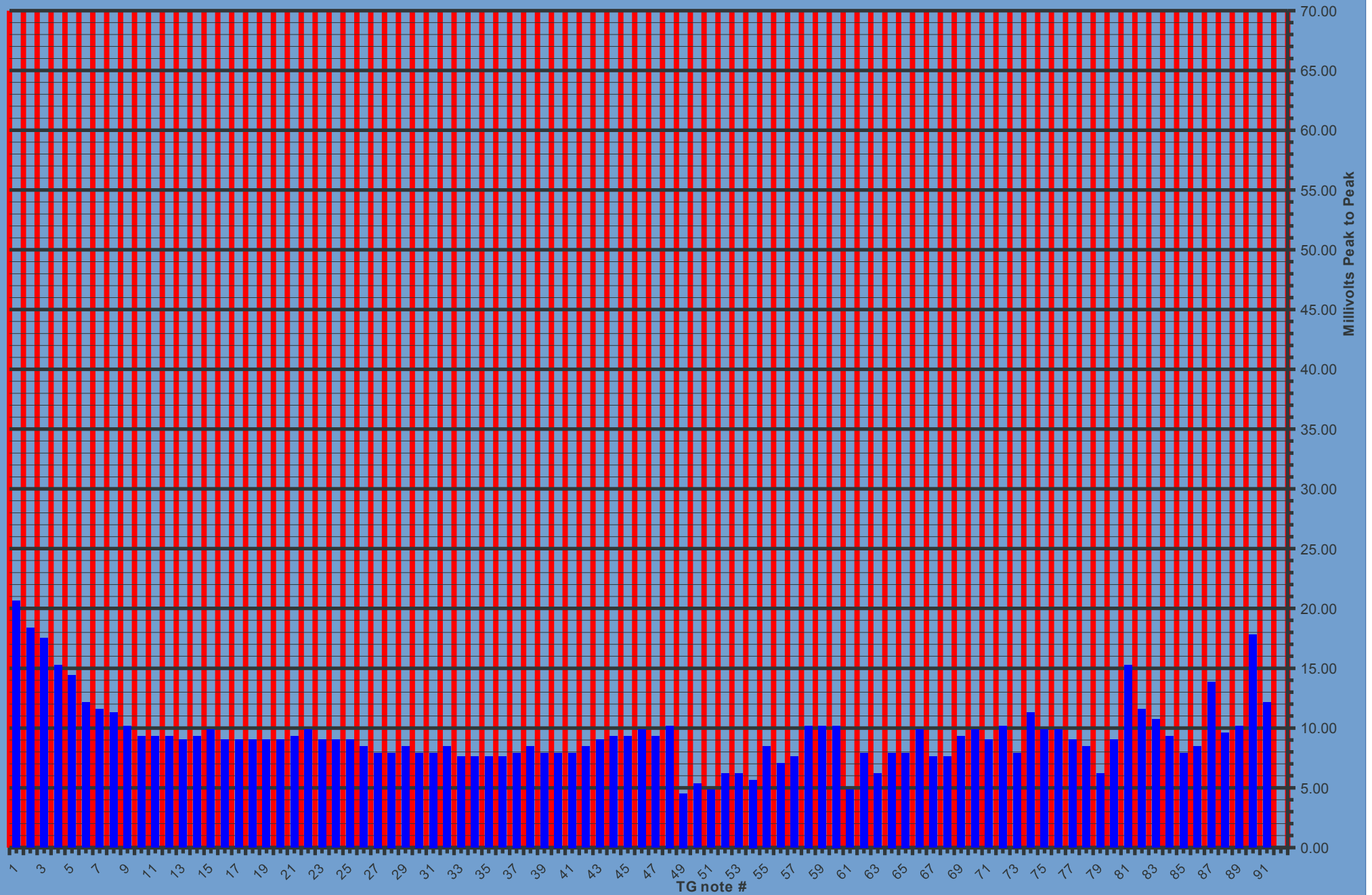
Charles's 1937 BC S/n 4667 Recapped with Goff cap kit and R/C hum filters. No manual tapering scheme. Bass all the way down. "Sounds like five blankets are hanging over the Leslie ". mVRMS levels converted to mVpp by Kon..



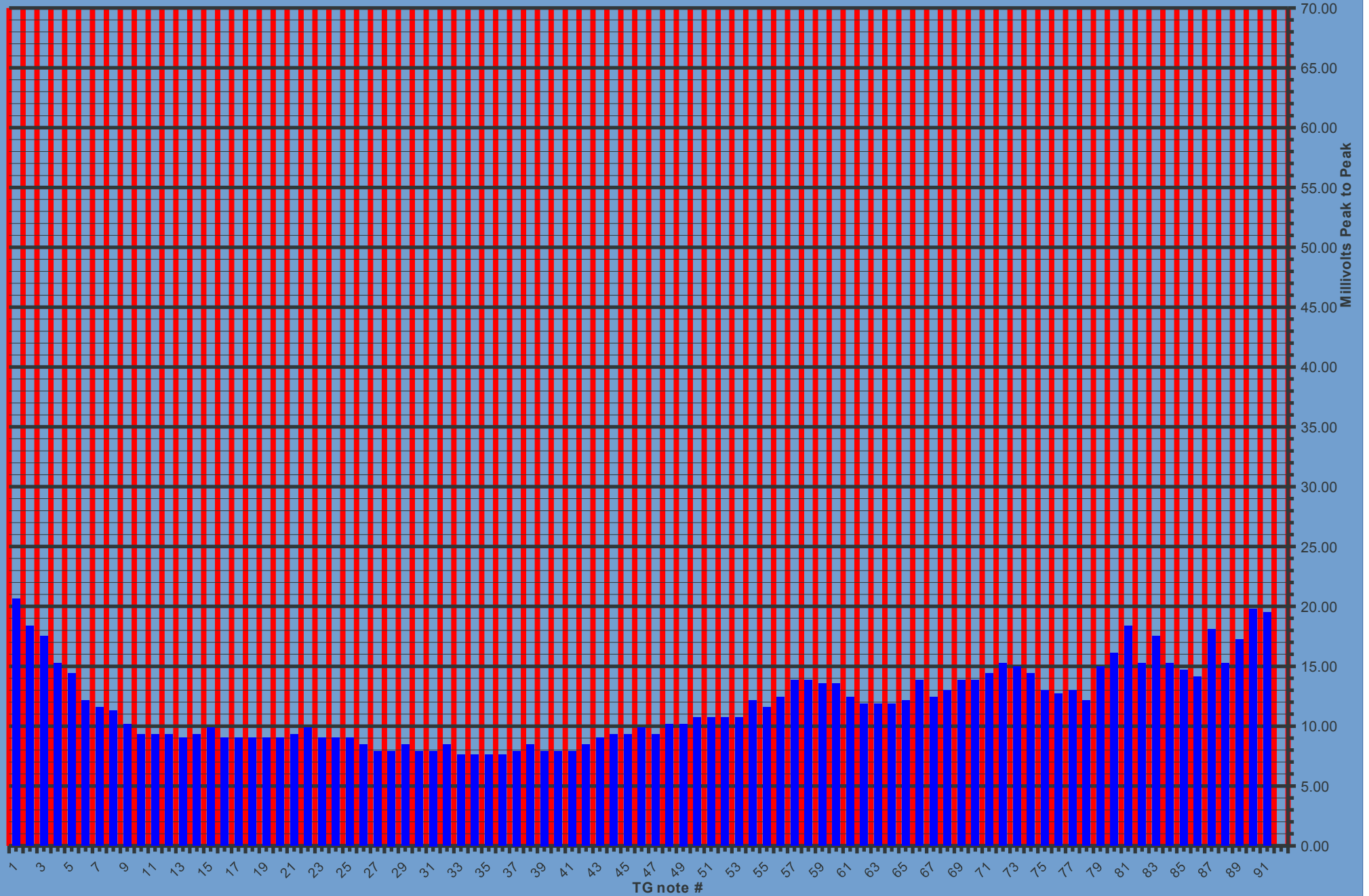
Robert's 1937 BC with cardboard tube wax capacitors. S/n 4803. No manual tapering scheme. Clean and pure sounding waveforms. Warm bass and bright treble. Great for black Baptist Gospel music when the Chorus Generator effect is on. Measured by Kon.



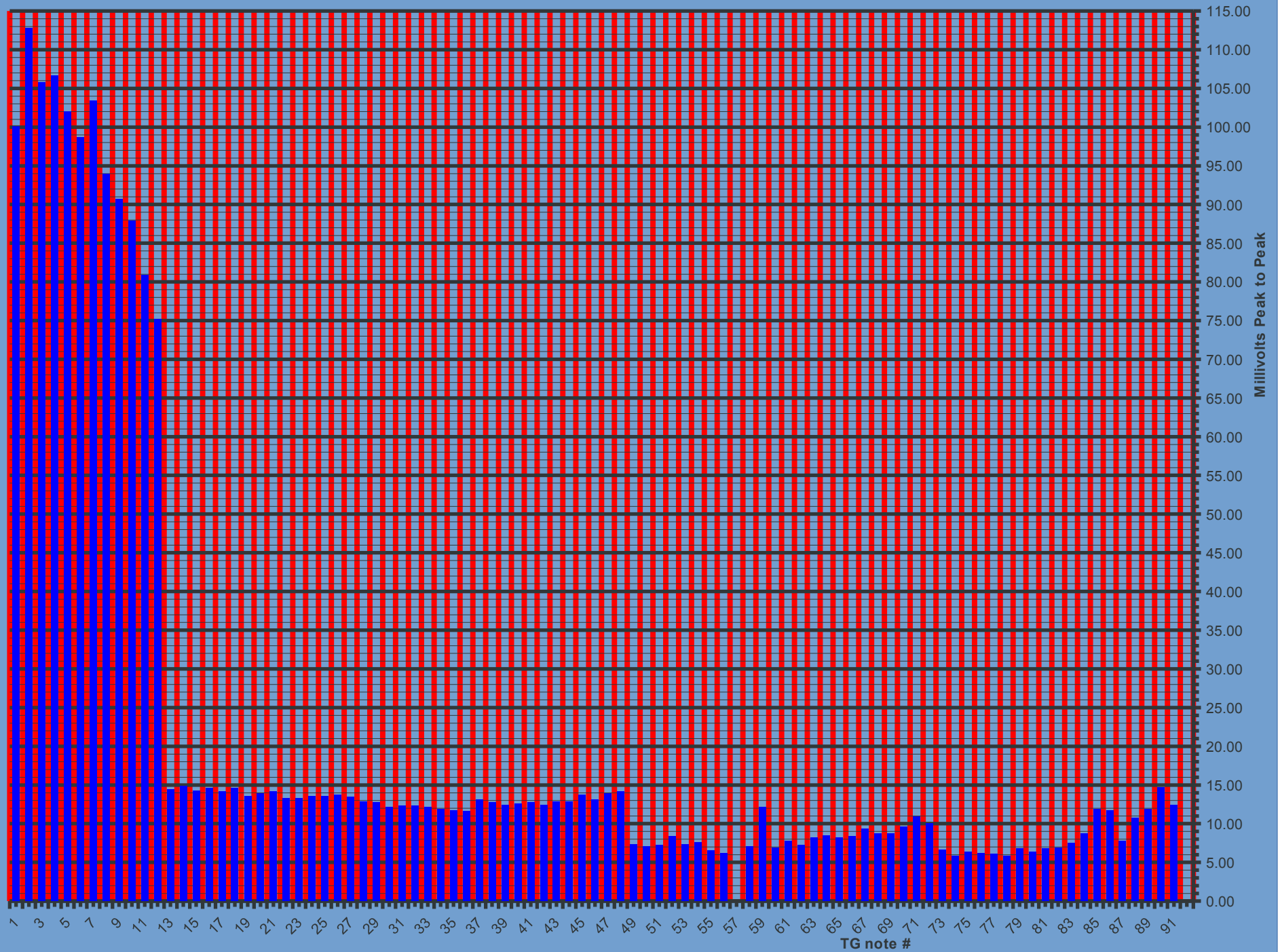
Benjamin's wax capped 1938 BC. MV RMS levels converted to mVpp by Kon, 25 May 2013.



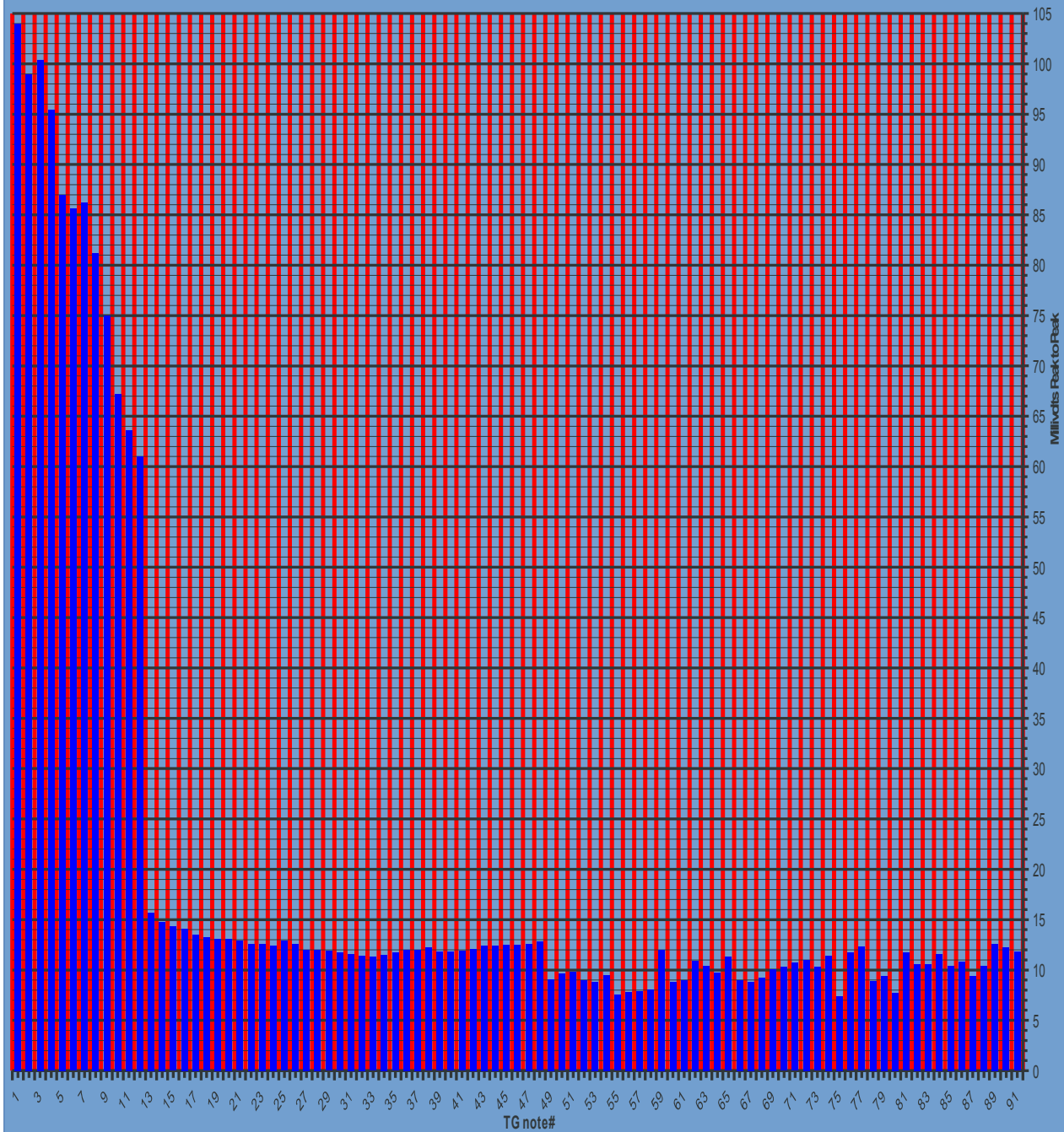
Benjamin's recapped 1938 BC. MV RMS levels converted to mVpp by Kon, 25 May 2013.



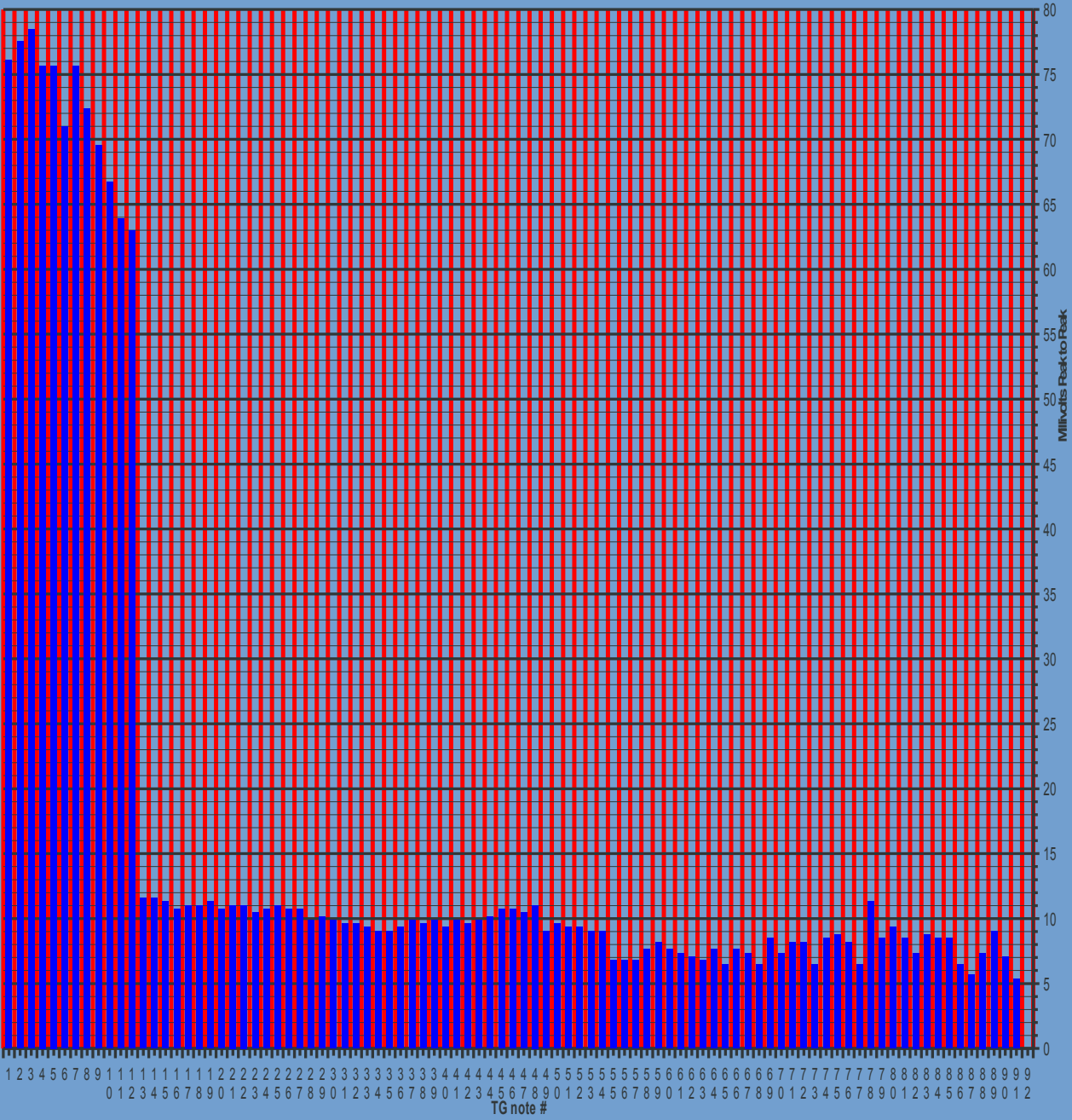
Markus's wax capped BV measured by Peter, May 2016. mV RMS levels converted to mVpp by Kon.



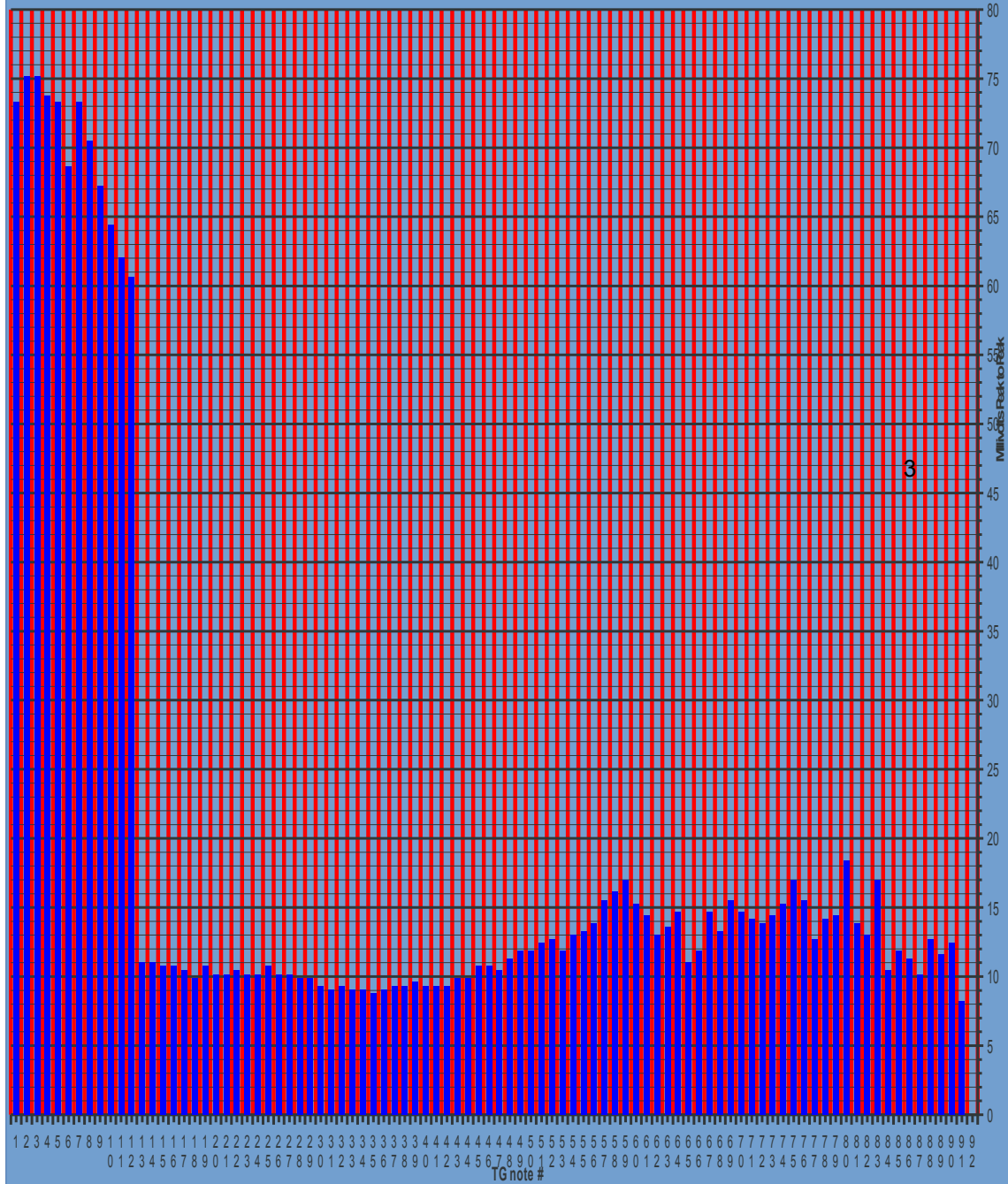
Kai's 1950 wax capped B2. S/n 353xx. "Sound is surprisingly bright considering its age and drifted wax paper capacitors, but it lacks the strength in the TG notes 49-91 as usual in wax-cap organs".



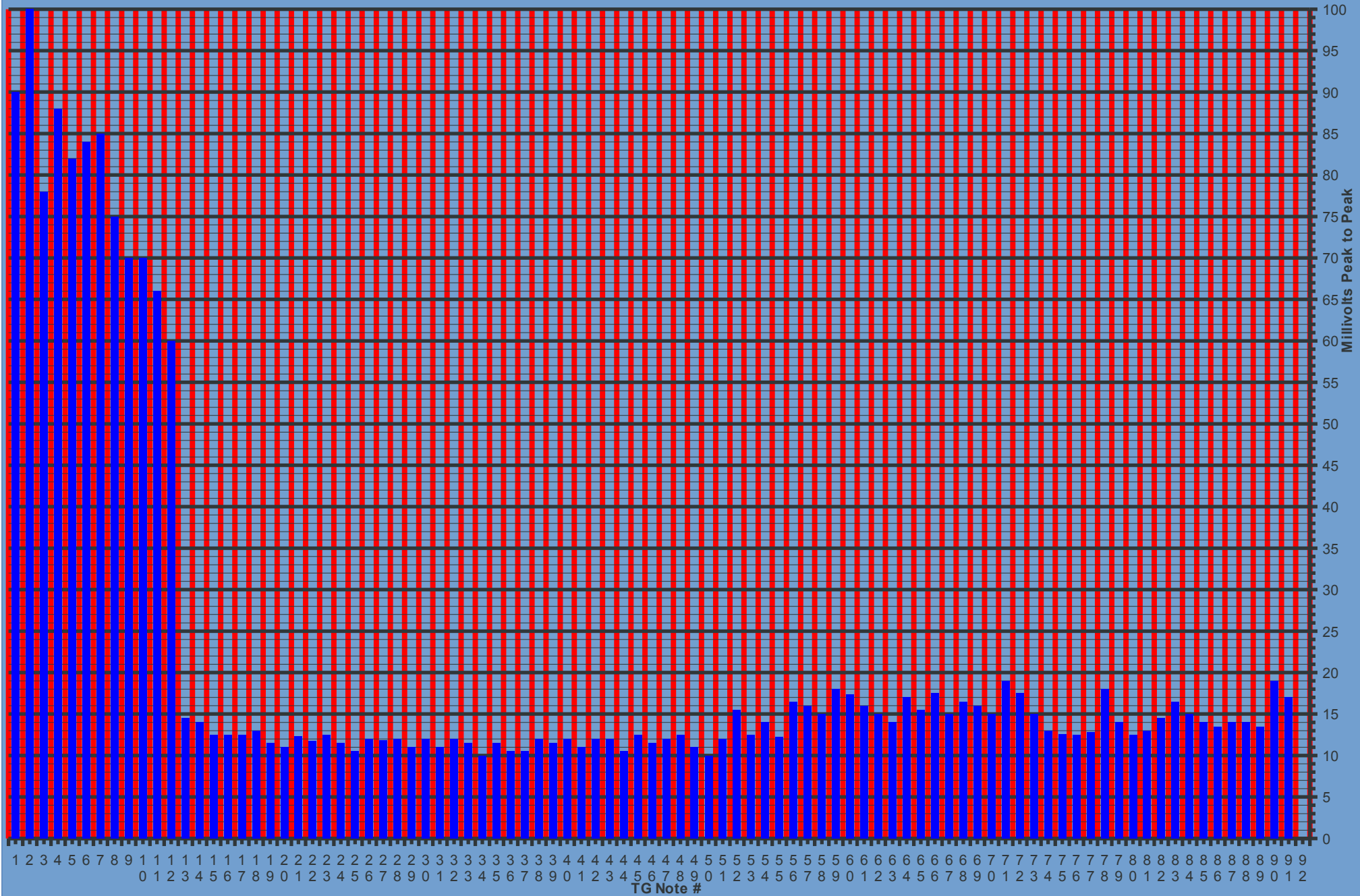
Chris's recapped mid 50's B2. Original levels before the recalibration. "Had I been a jazz player I might have opted for this earlier sound as it was warmer. mV RMS levels converted to mVpp by Kon .



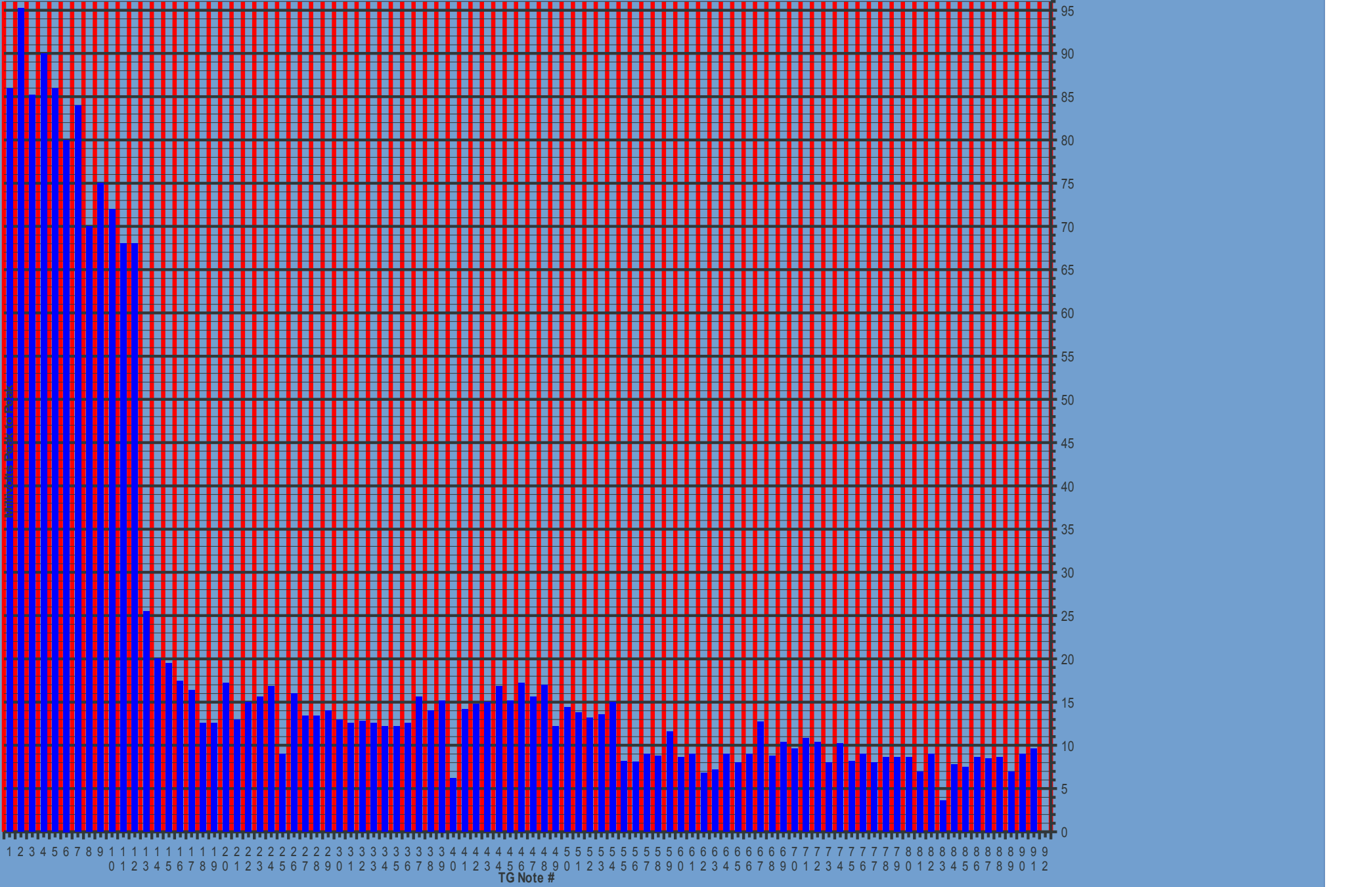
Chris's recapped & recalibrated mid 50's B2. "The organ now has more guts and I like the sound. Since I use the organ for blues rock I now get the sound I want (or closer to it)" mV RMS levels converted to mvpp by Kon



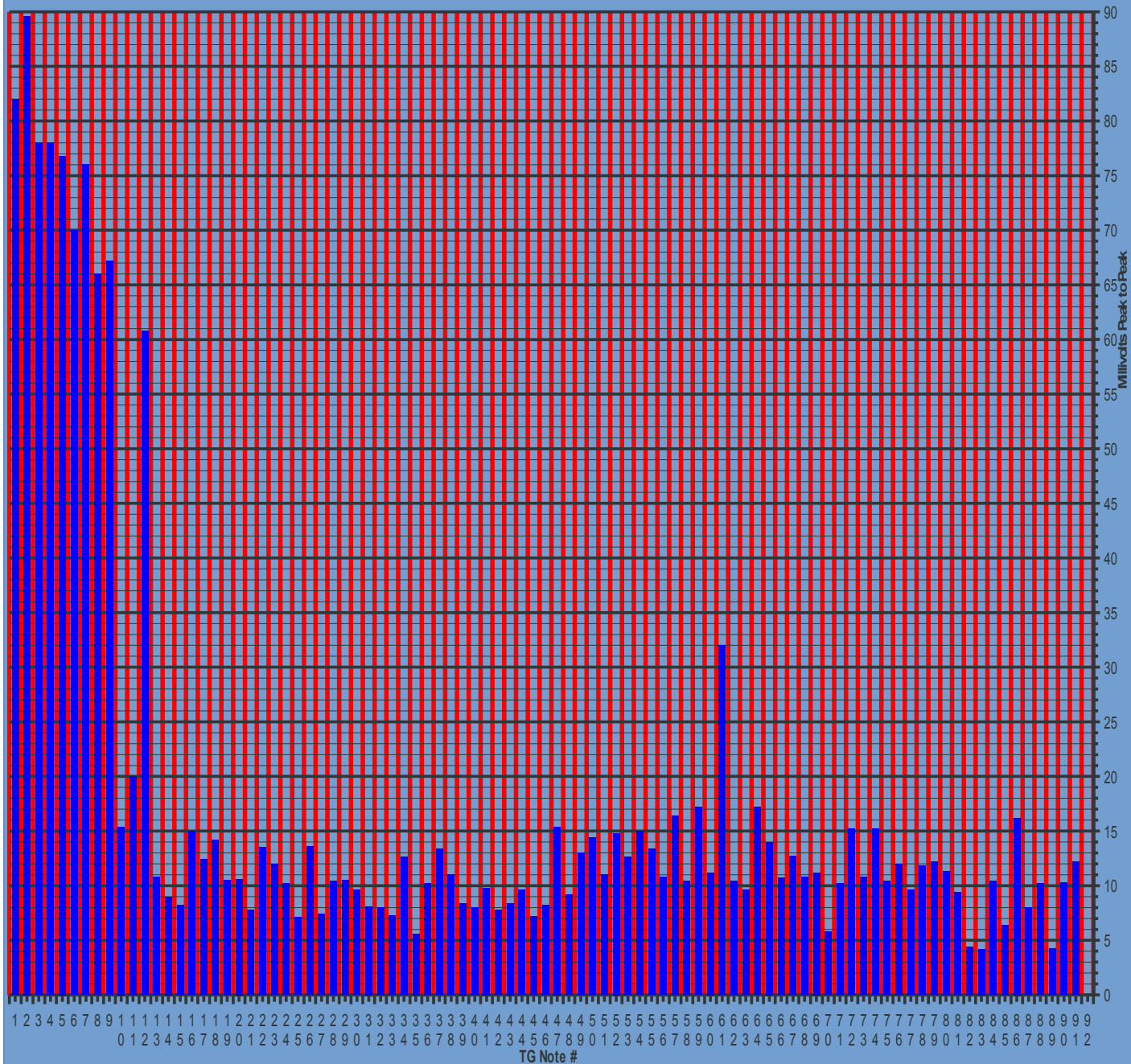
Christoph's recapped 1952 B2. S/n 44877. TG recapped with generic non matched capacitors.



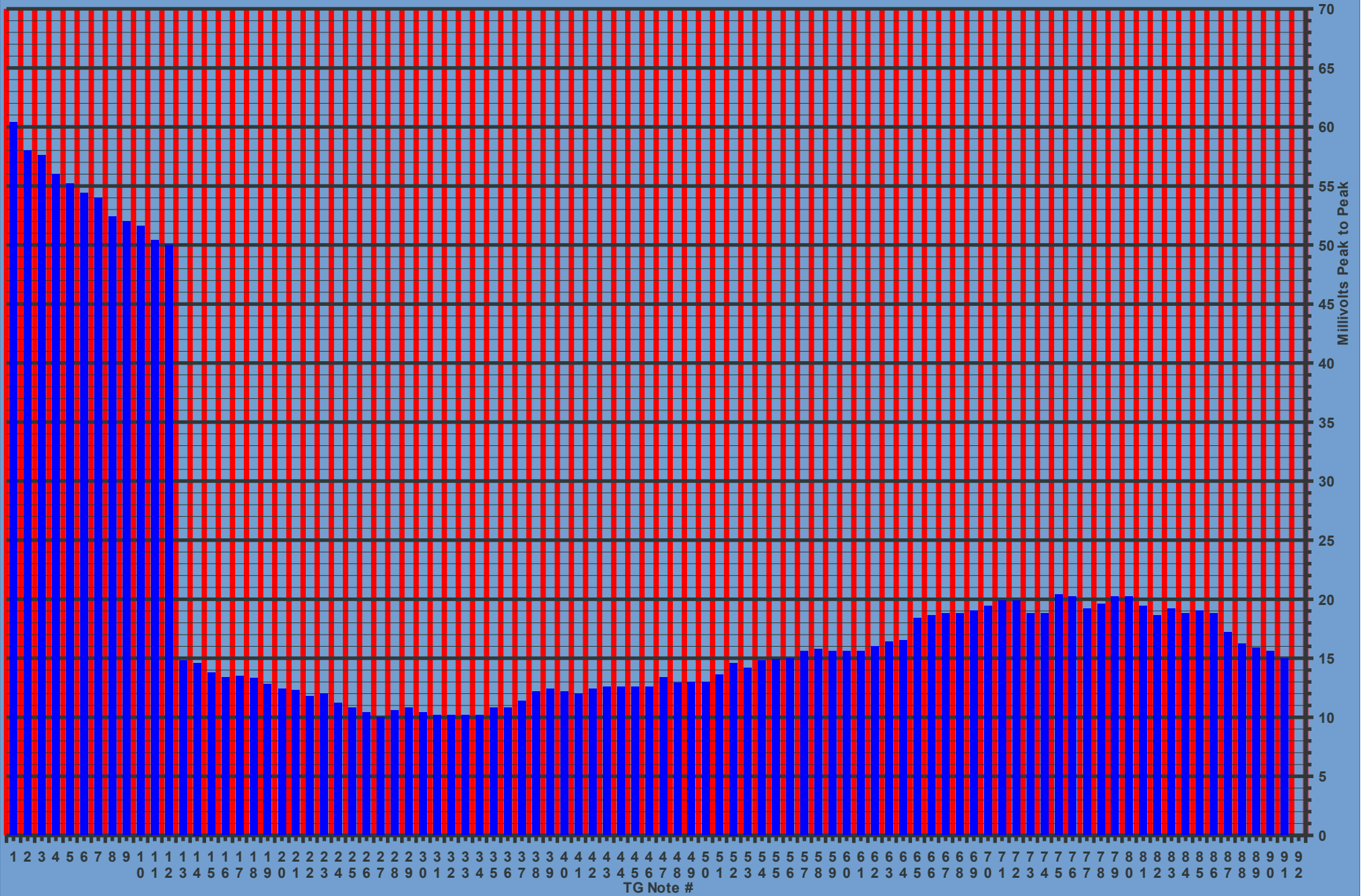
Kenn's 1955 wax capped B3. S/n 57358. Measured with a Tek 2247 scope with bandwidth limiting on to 20 MHz to reduce harmonic measurements.



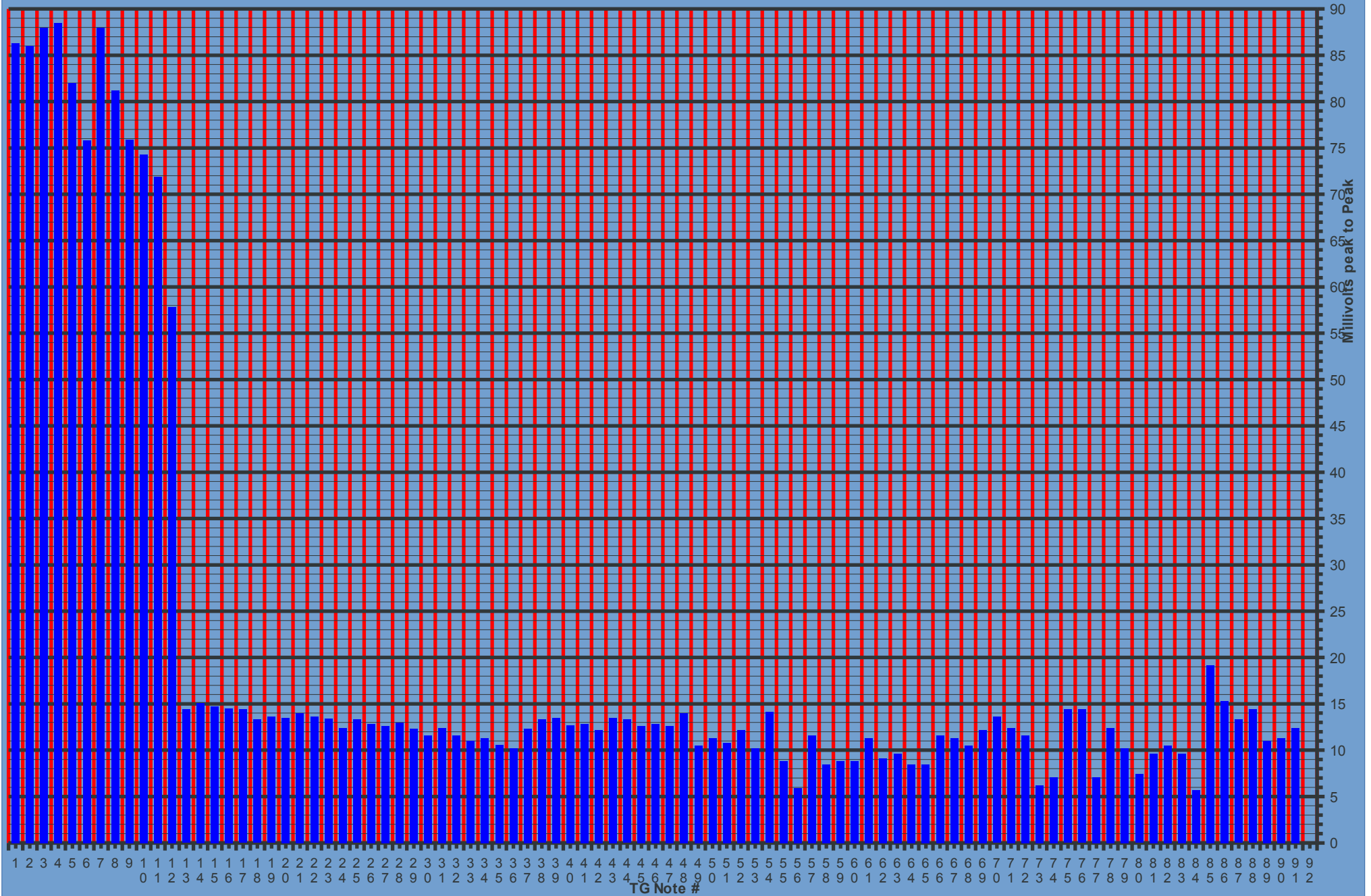
Kenn's recapped 1955 B3. S/n 57358. Recapped and then measured by Kenn with a Tek TDS 210 scope with full 60mhz bandwidth 50% triggering and 64 sample averaging on.



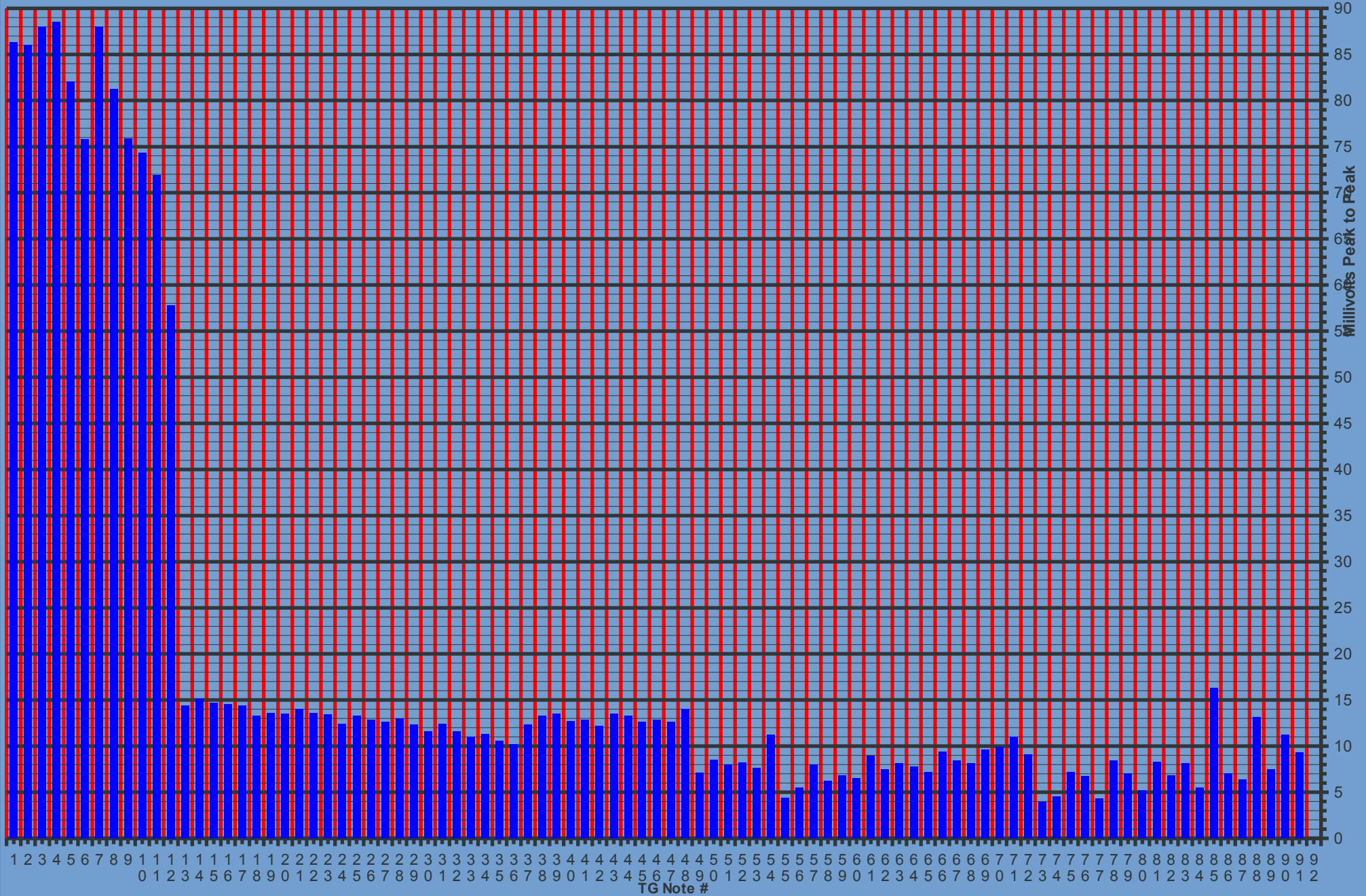
Kenn's recapped and recalibrated 1955 B3.S/n 57358



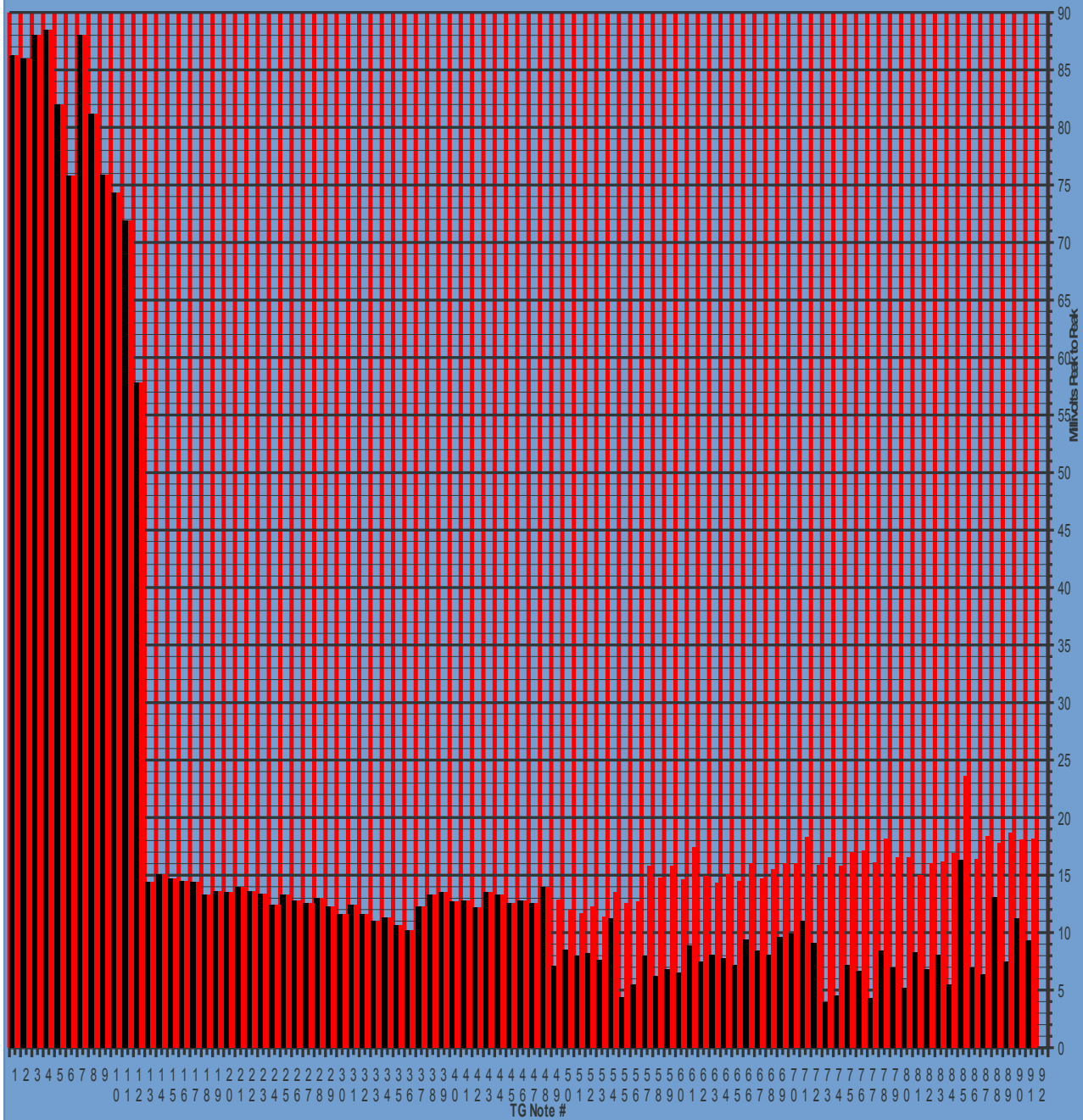
Mihevic 1956 B3 s/n 59520 Wax Capacitors. TG readings taken in 1972 .



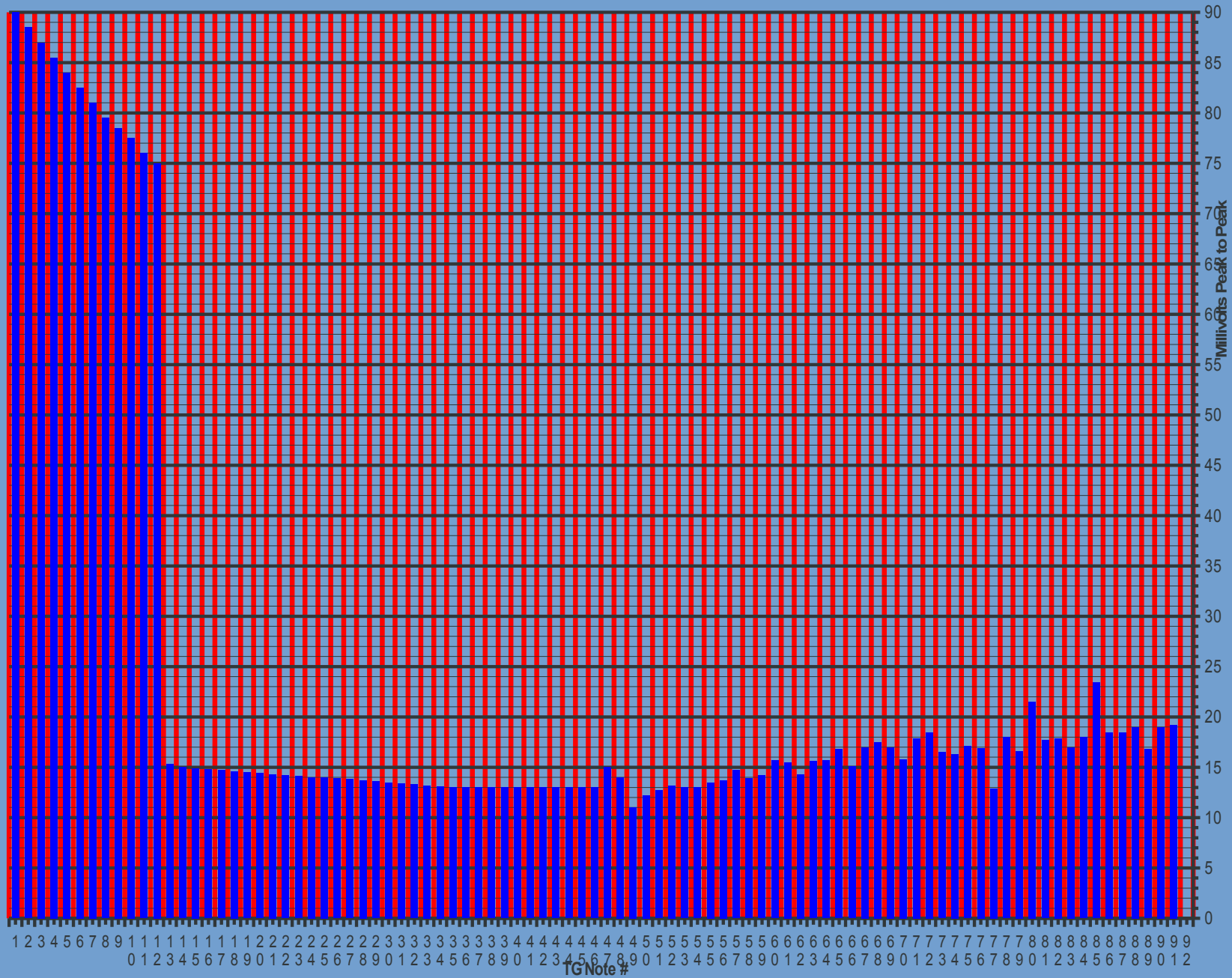
Mihevic 1956 B3 s/n 59520 Wax capacitors. More recent wax cap TG output levels.



Mihevich recapped 1956 B3 S/n 59520. Recapped with Goff cap kit. 0.015 mfd caps were added in parallel with the 0.220 mfd caps of the TG notes 49 to 54 in order to produce the best peak outputs.



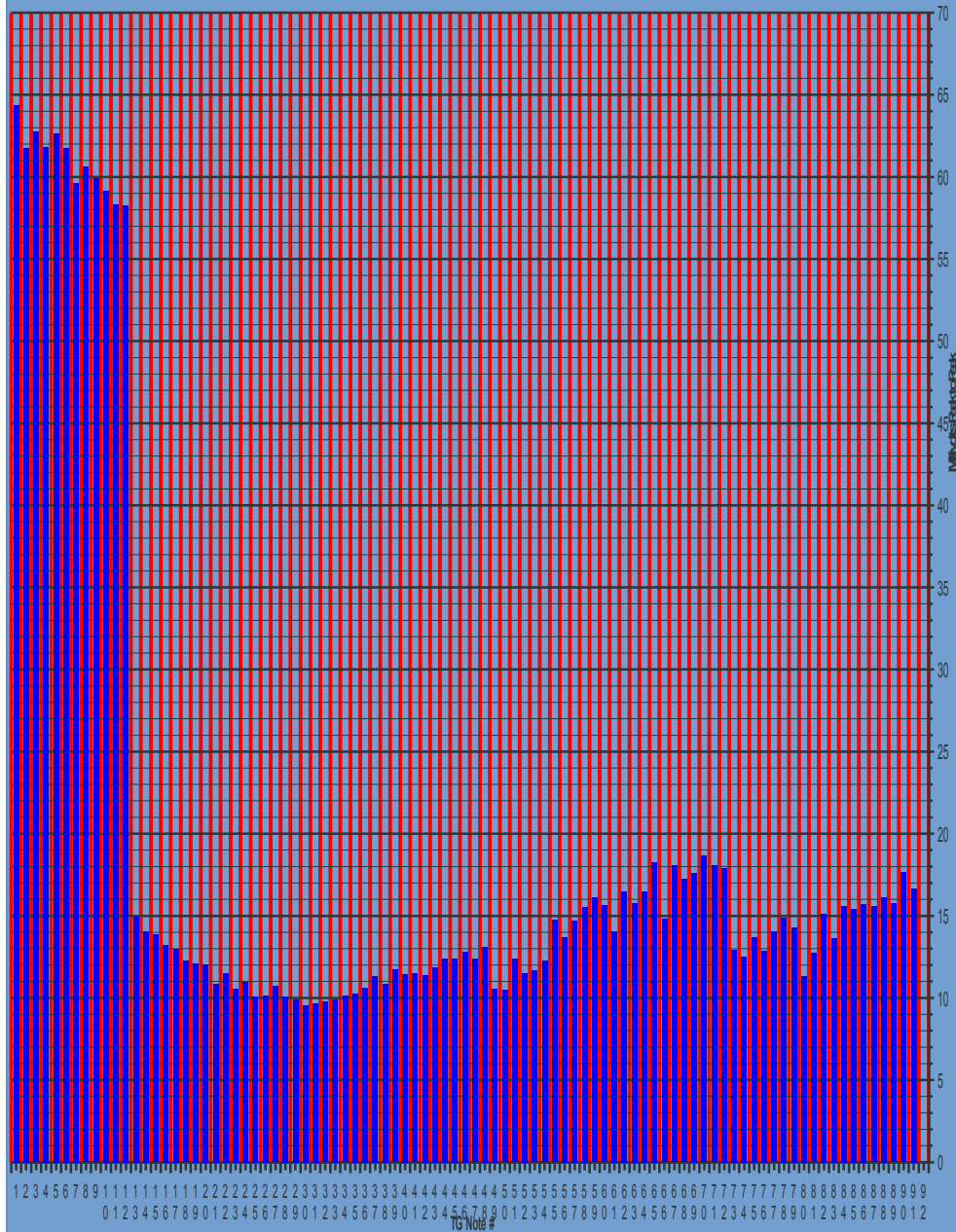
Theoretically possible levels for the TG notes 1 to 43 of the earlier era organs combined with the TG notes 44 to 91 of Steffan's 1950's B3 by Kon.



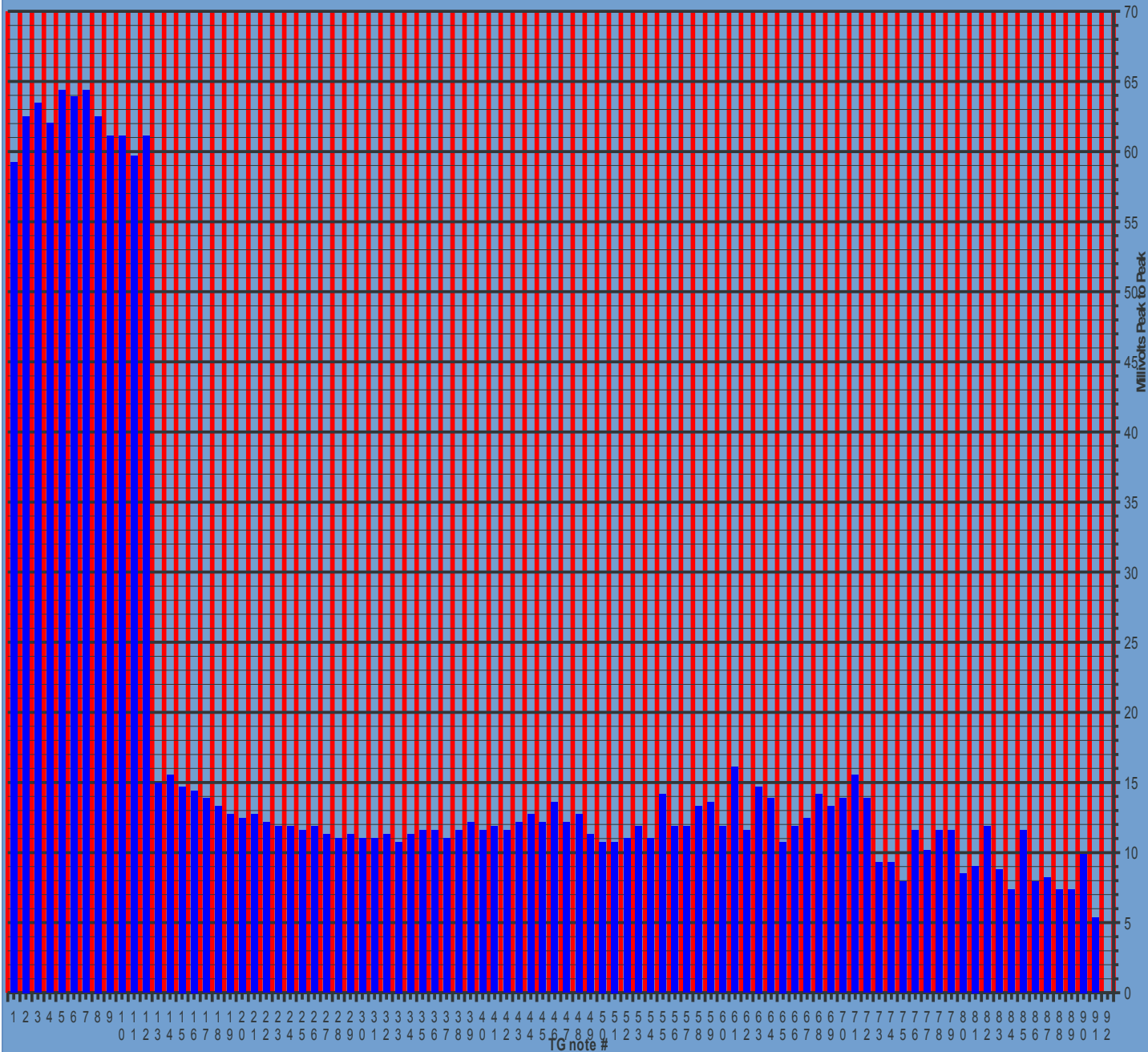
Wax capped 1956 B3 measured by Peter. S/n 61423



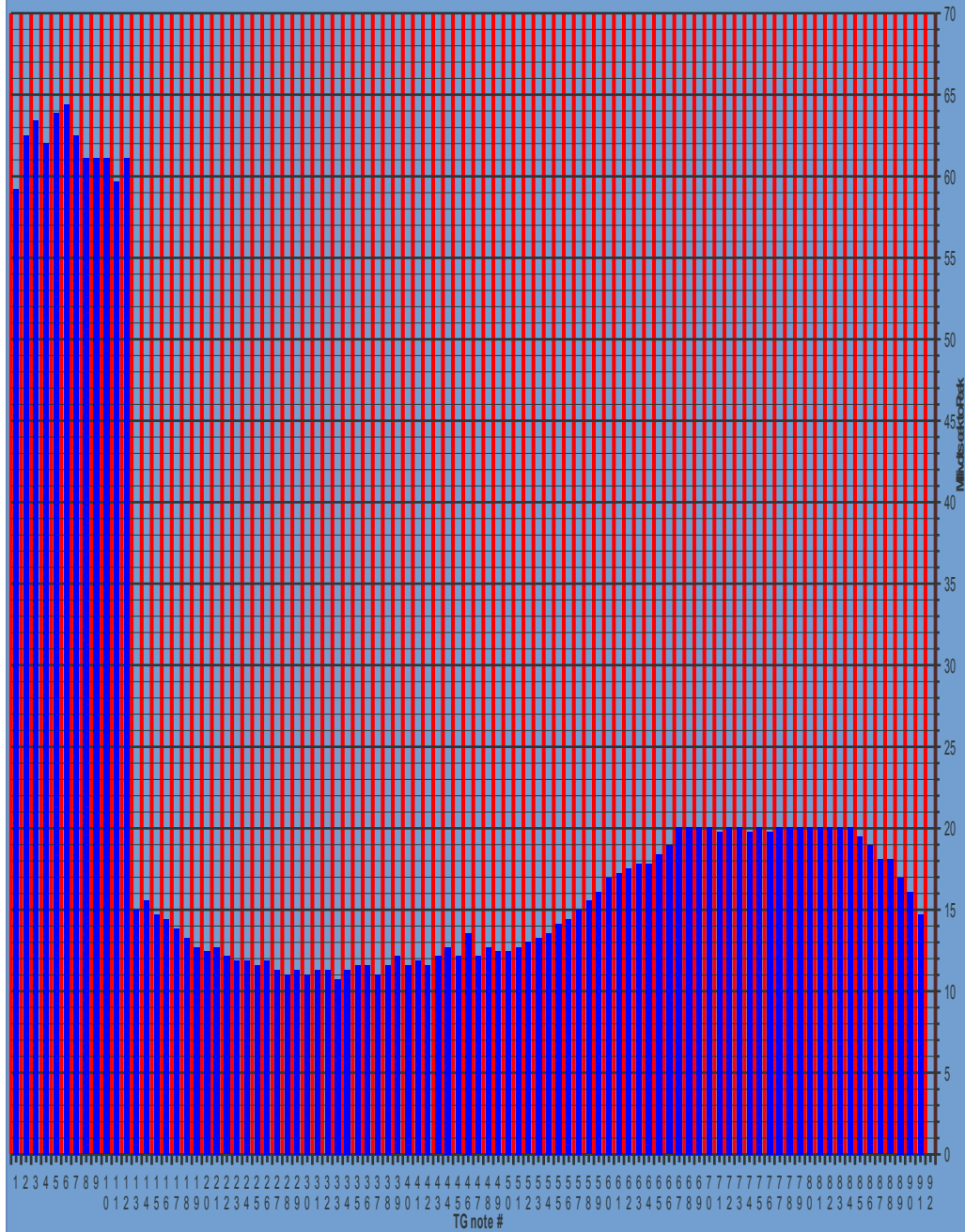
Marcel's recapped and recalibrated 1957 B3. S/n 69816. Recalibrated 20 Nov 2009. "The first three octaves sound very powerful with a lot of bass, leakage and keyclick. The higher notes are more in balance now, and the percussion doesn't damage your ears."



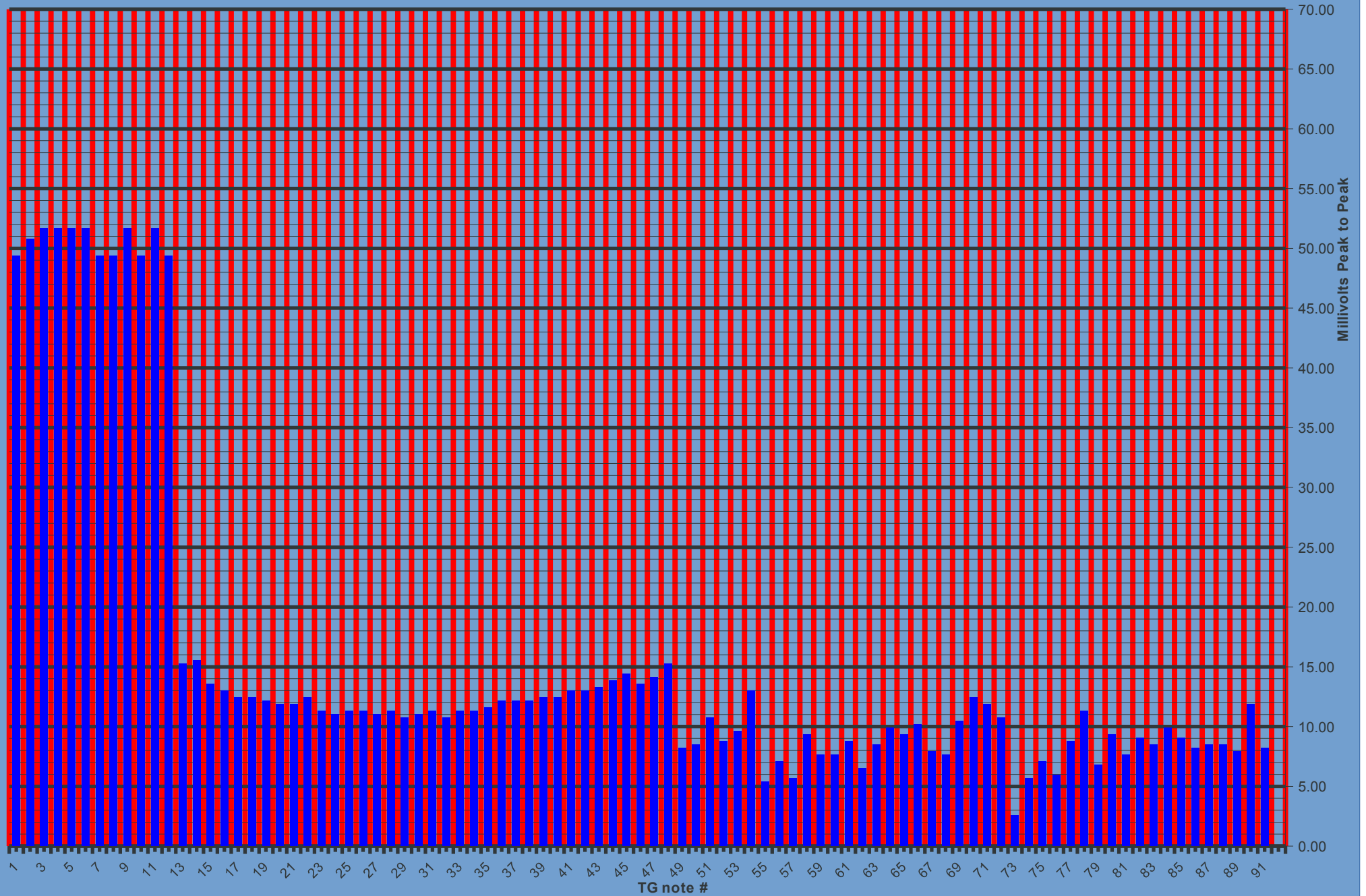
Pat's father's recapped 1958 B3. Recapped with Goff cap kit in 1998. Original TG output curve. Measured by Pat with Fluke 79 III voltage meter and then converted to mVpp.



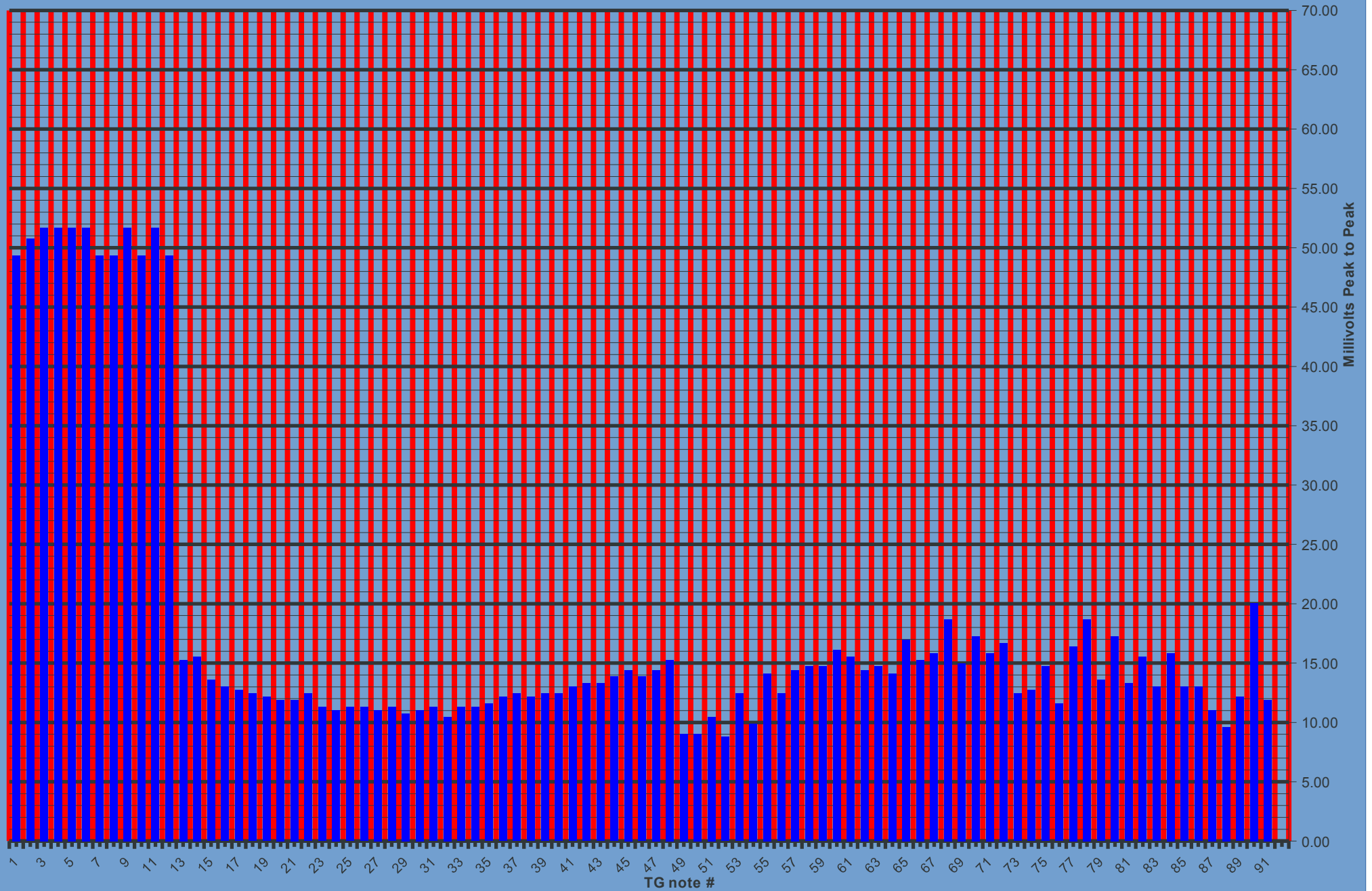
Pat's father's recapped 1958 B3. Recapped with Goff cap kit in 1998. TG recalibrated by Pat on 12 April 2009. Measured by Pat with Fluke 79 III voltage meter and then converted to mVpp. "My father now really likes the added punch in the sound".



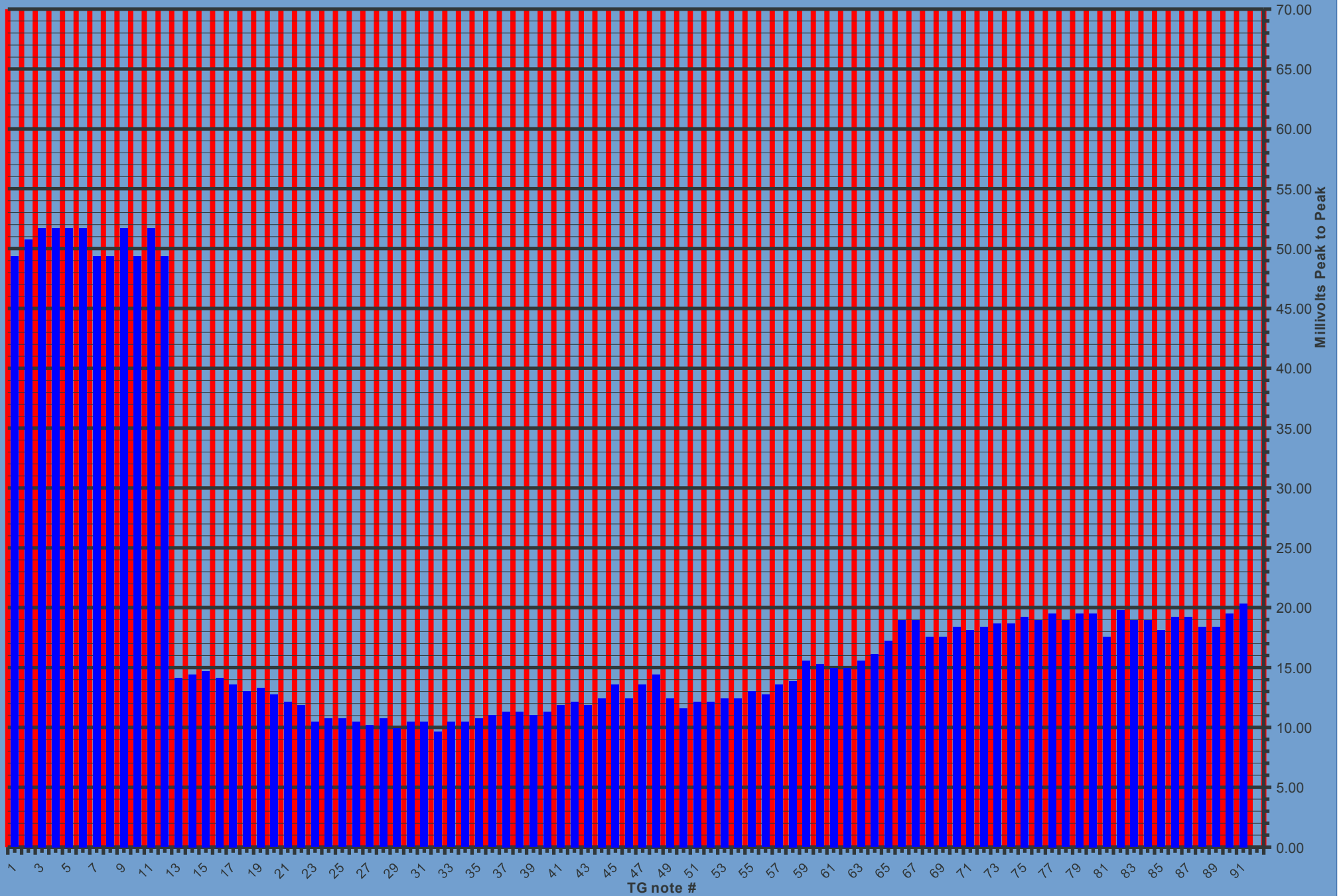
Gino's wax capped 1958 B3 S/n 71813. mVRMS levels converted to mVpp by Kon, 9 May 2013



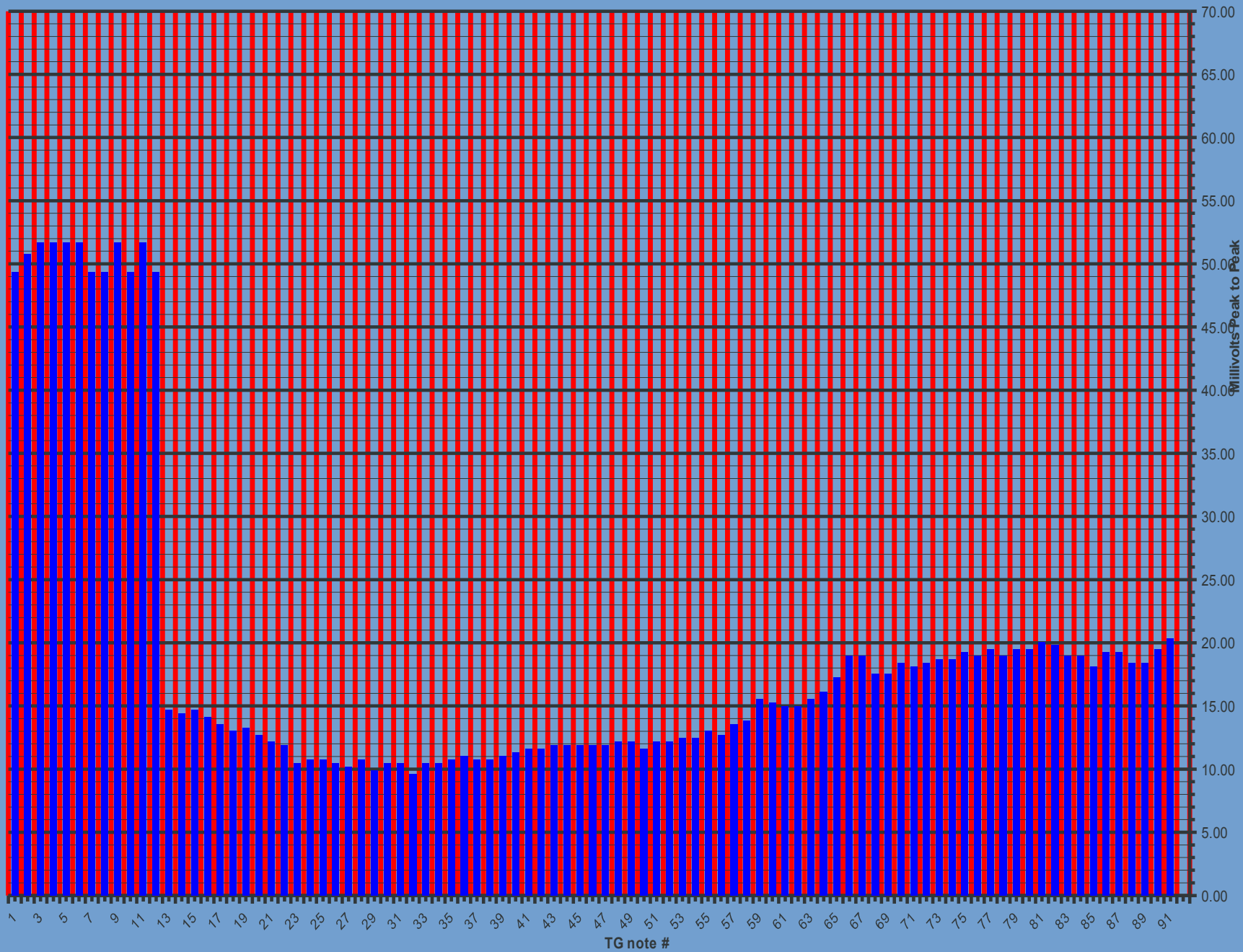
Gino's recapped 1958 B3 S/n 71813. mVRMS levels converted to mVpp by Kon, 9 May 2013



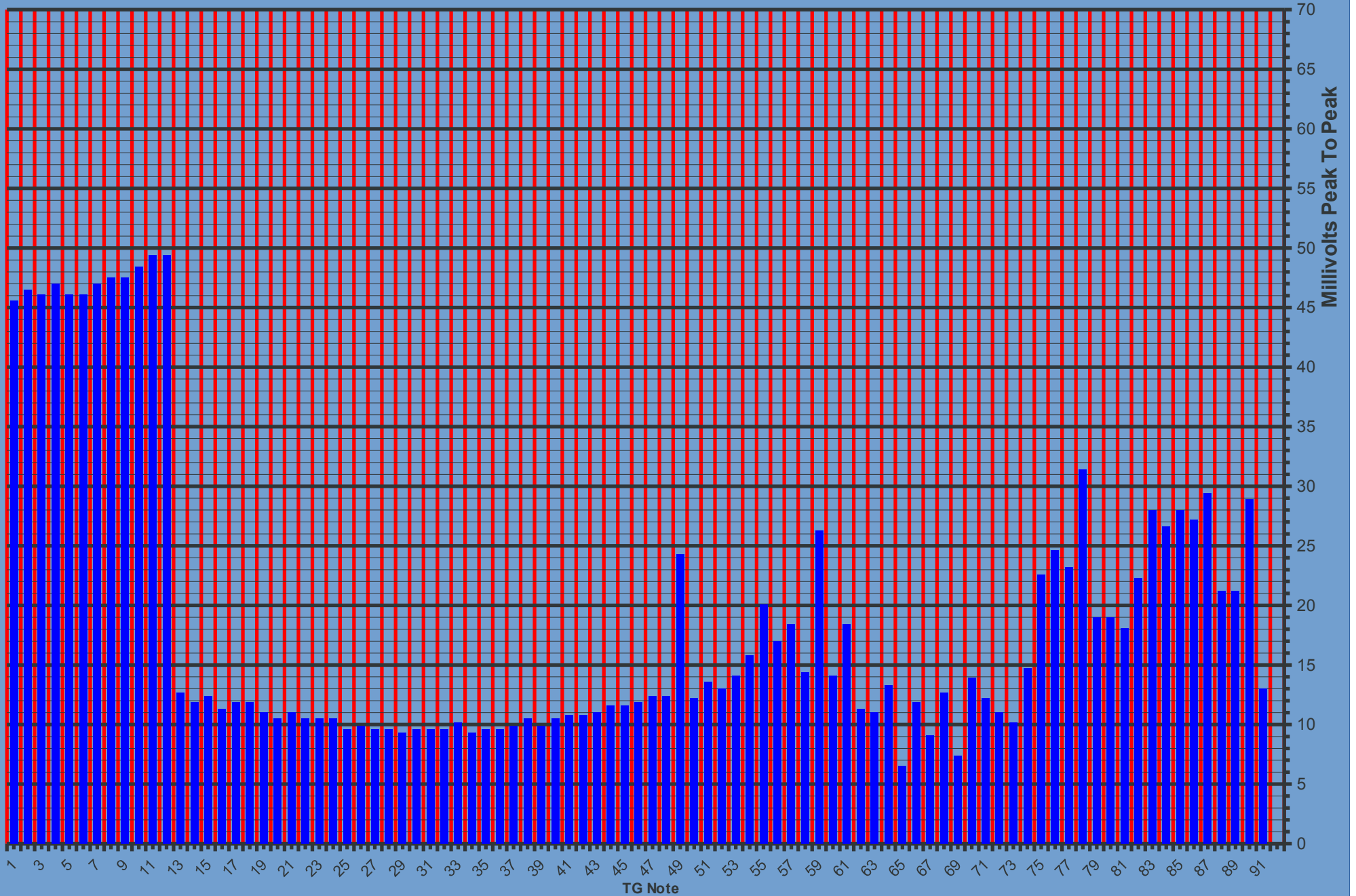
Gino's recapped and recalibrated 1958 B3 S/n 71813. mVRMS levels converted to mVpp by Kon, 9 May 2013



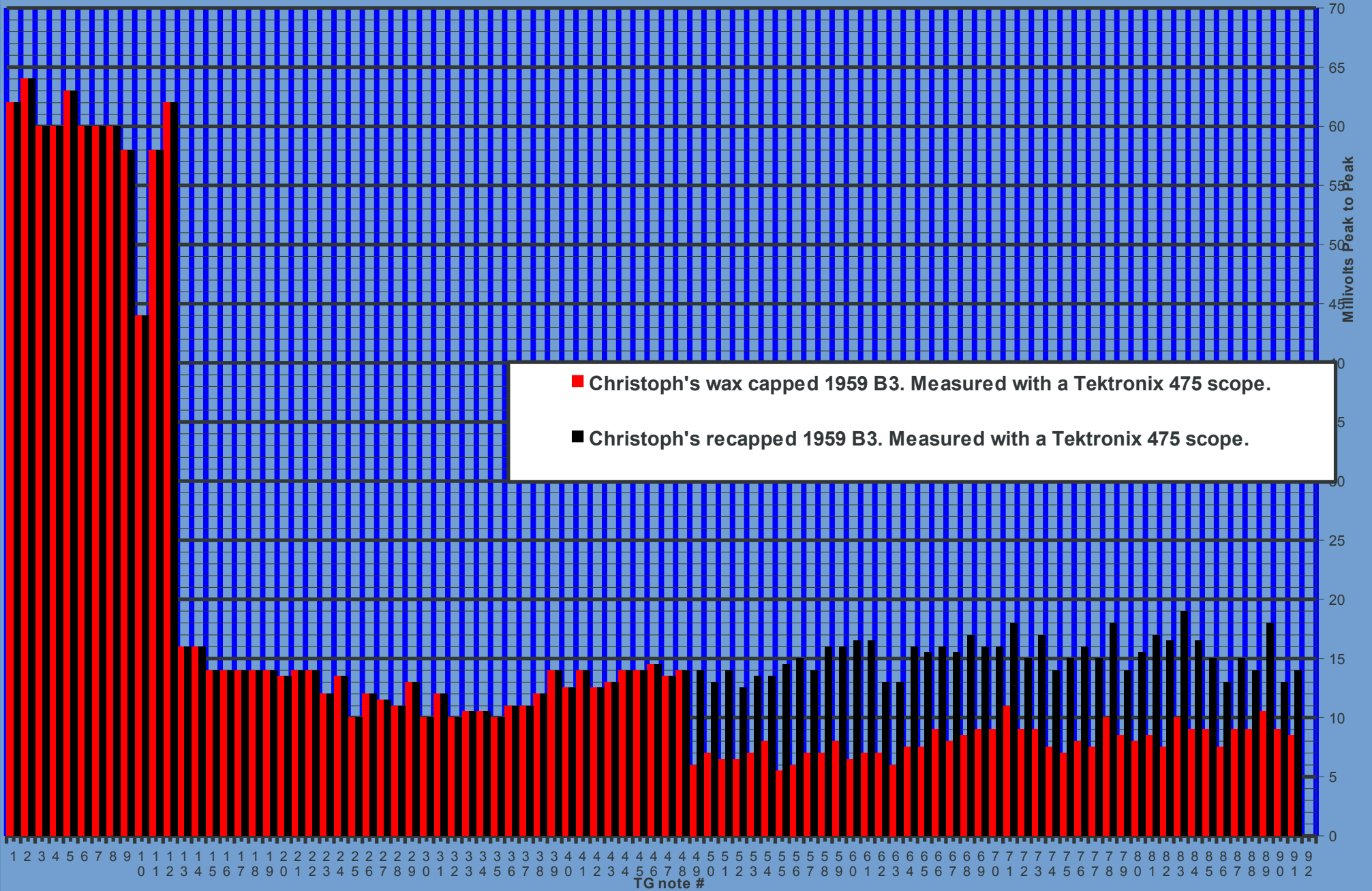
Gino's recalibrated 1958 B3 S/n 71813. With RC filters added to the TG notes 37 to 48. mVRMS levels converted to mVpp by Kon, 9 May 2013



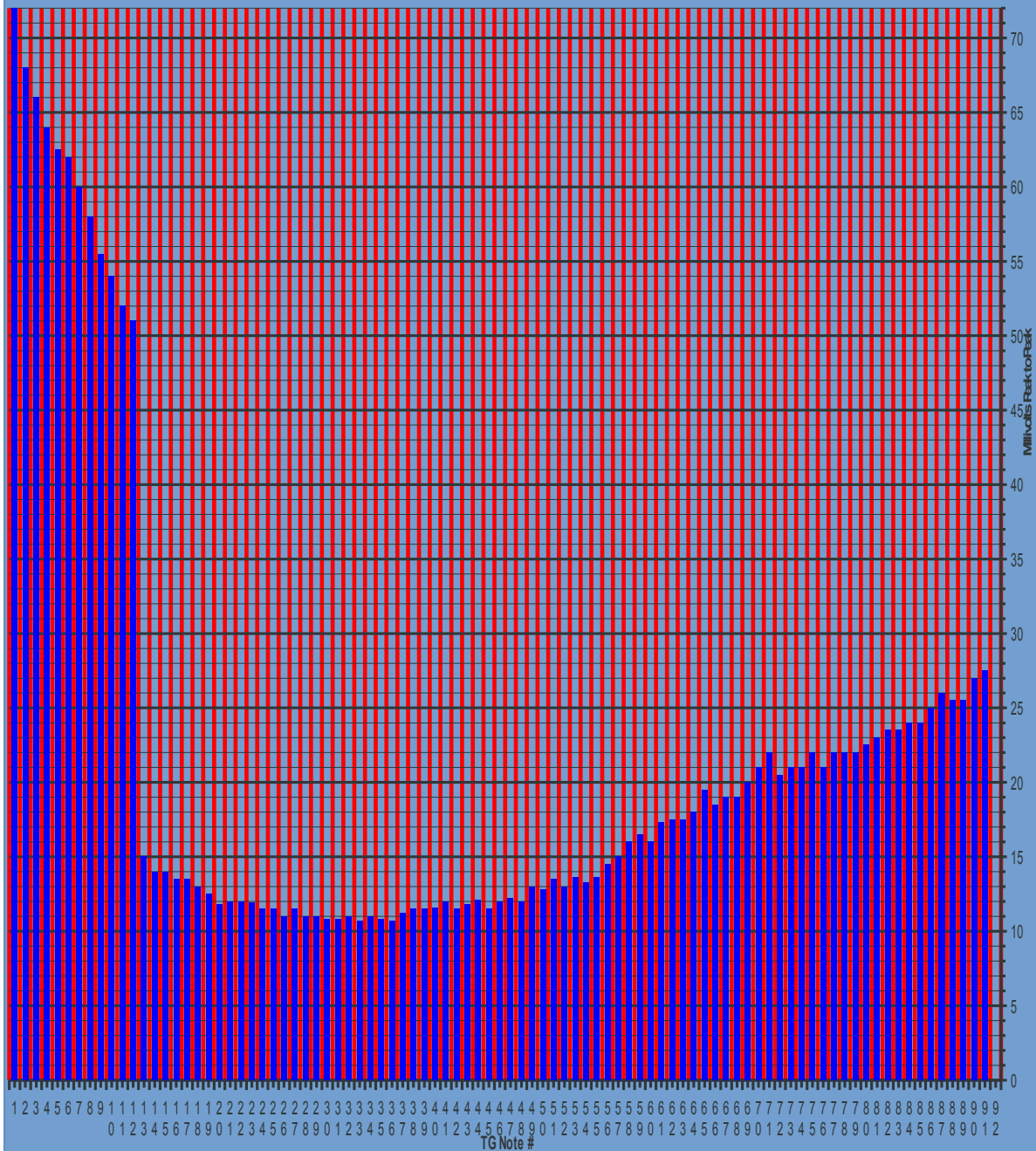
Jurgen's 1959 B3 with wax capacitors.



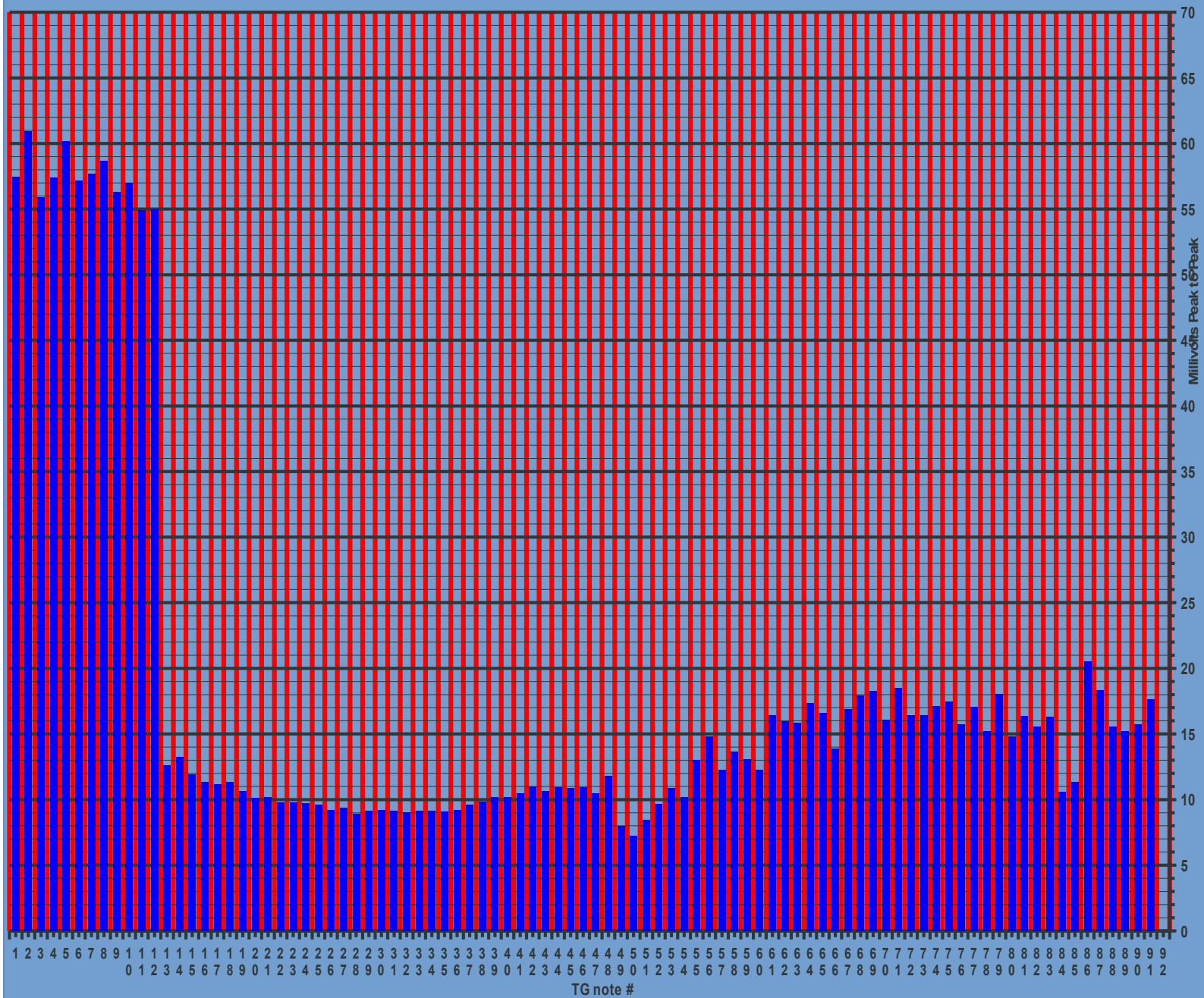
Comparison of Christoph's 1959 B3 with the wax capacitors and the new capacitors.



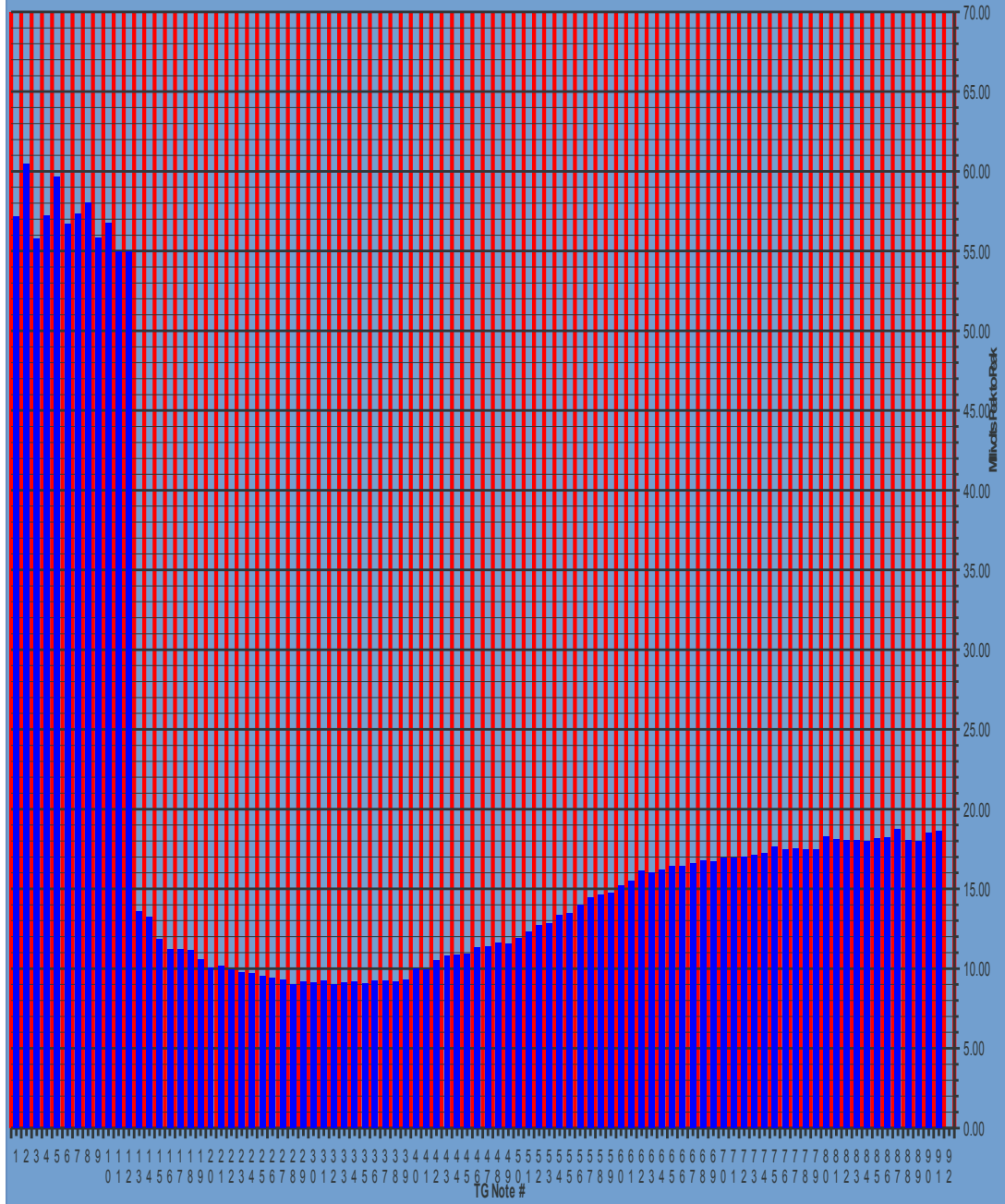
Christoph's recapped and recalibrated pre 1964 B3 TG. Actual year of the TG is unknown because the TG is not in an organ. Christoph recalibrated the TG notes 49 to 91 to follow the theoretical Alan Young specs.



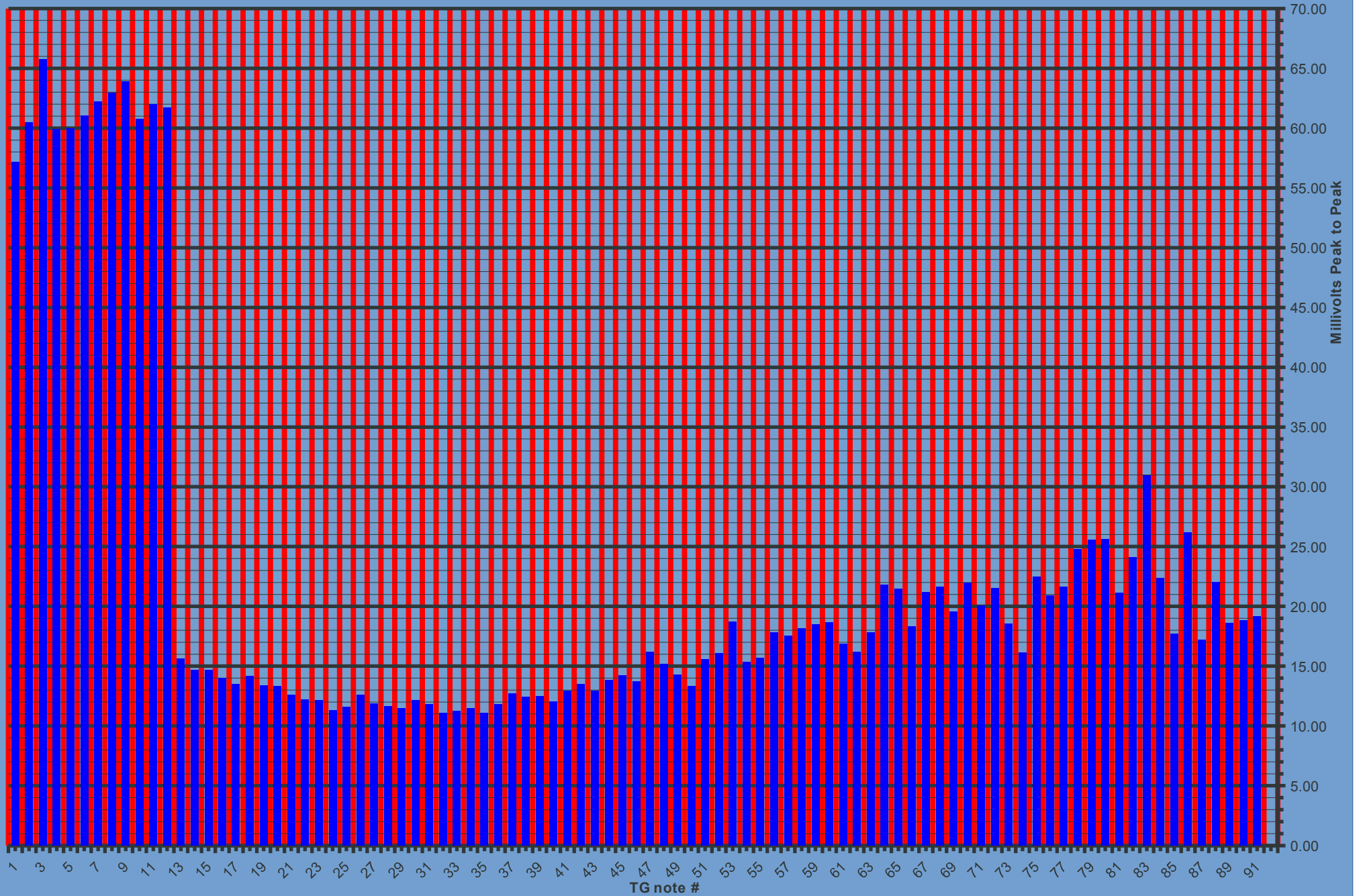
Mike's recapped and recalibrated 1959 B3. S/n 77401. Recapped and partially recalibrated by Goff Professional. mVRMS levels converted to mVpp by Kon.



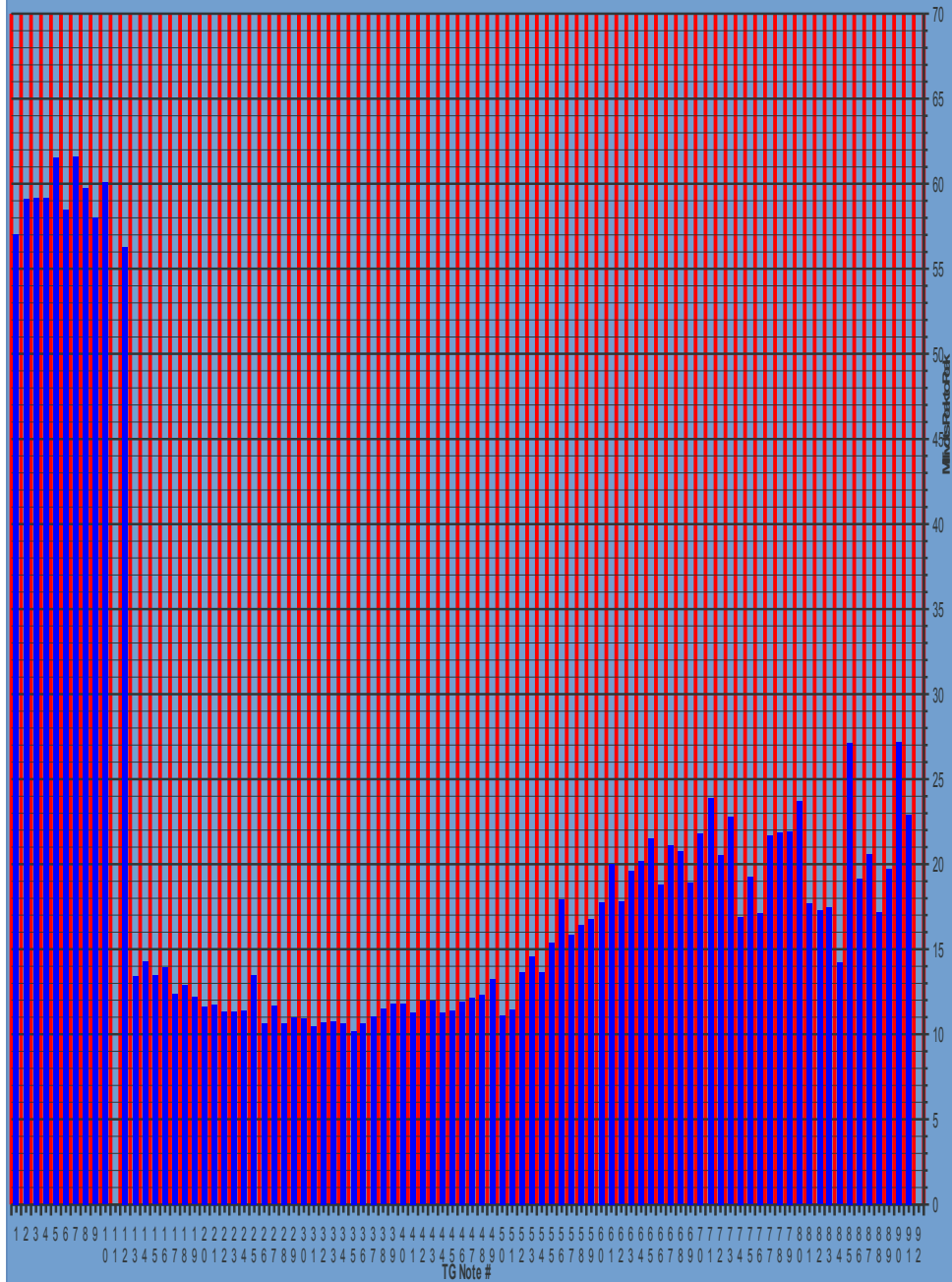
Mike's recapped and recalibrated 1959 B3. S/n 77401. A tech removed the Goff capacitors and replaced them with Sprague 715p capacitors and then recalibrated the TG in September 2009. mVRMS levels converted to mVpp by Kon



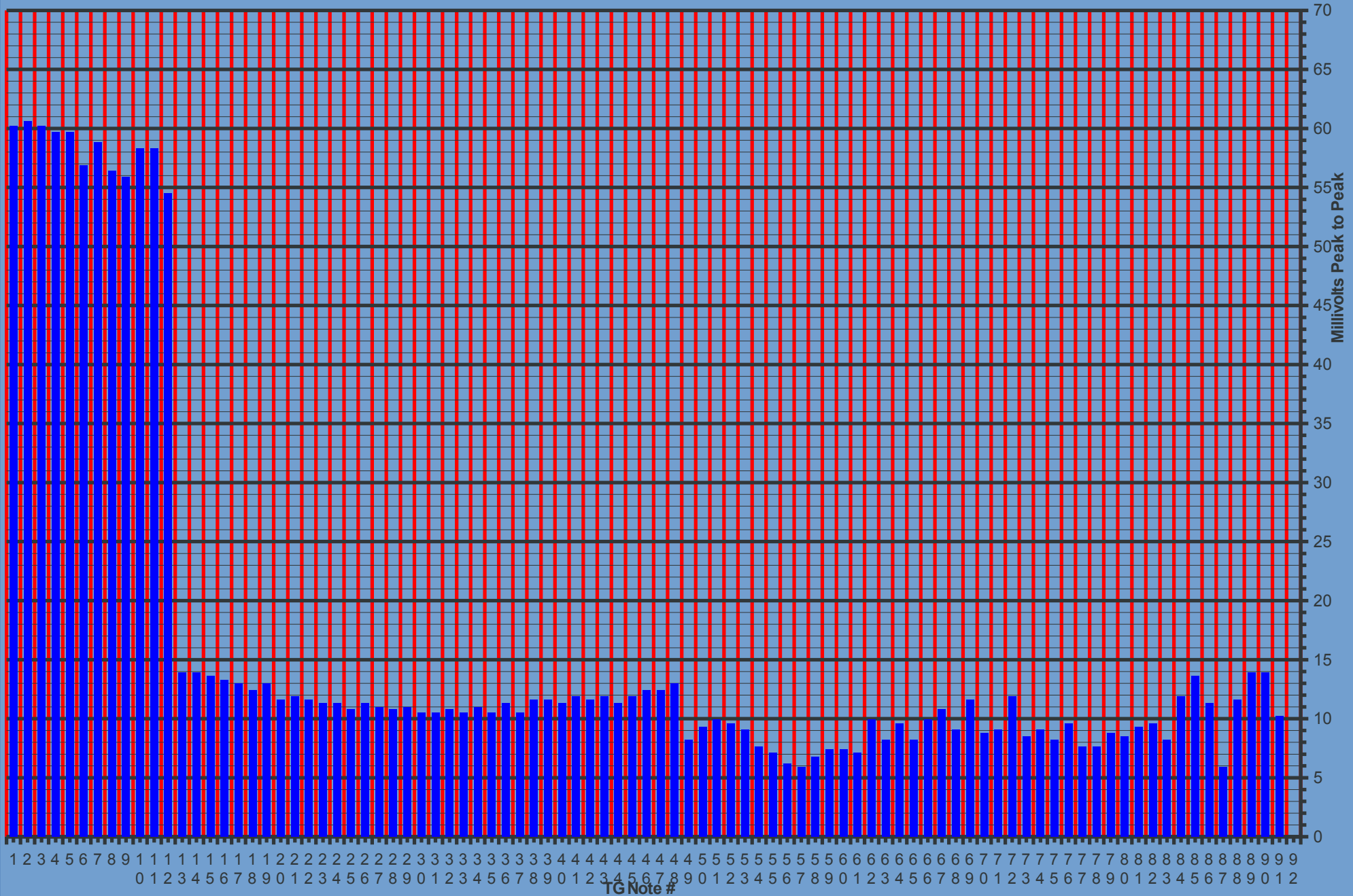
Matthias L's recapped 1960 B3



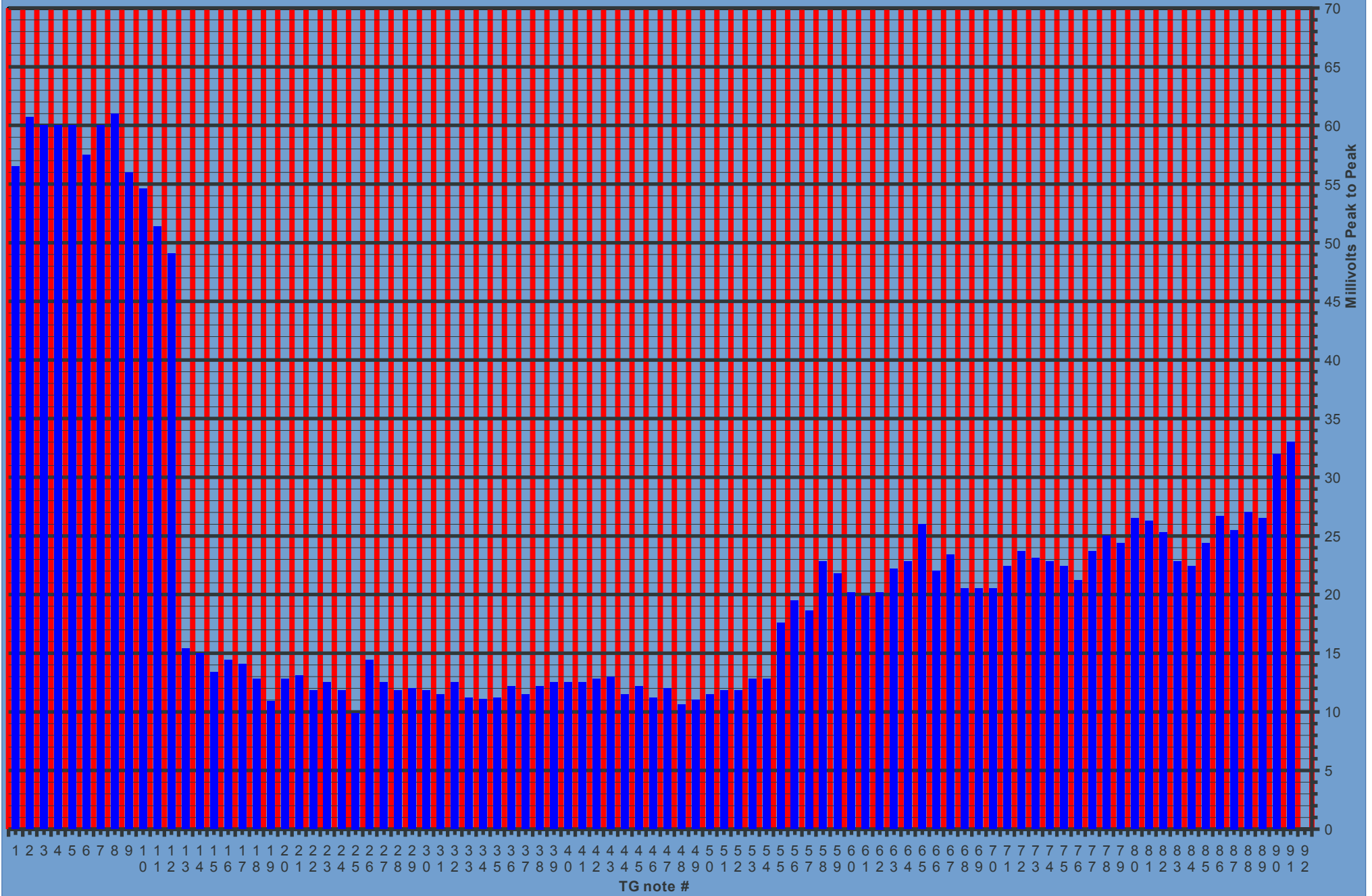
Rens's recapped 1960 B3. S/n 81082 Measured with Velleman DVM200 True RMS meter by Marcel. MV RMS levels converted to mVpp by Kon. "Great depth of sound, outstanding dynamics. The sound of the high notes are in balance with the lower and mid notes."



Markus's 1962 B3 Wax capacitors. ' Great sounding old Blue Note / Verve records Jazz , Funk , Soul type sound". "



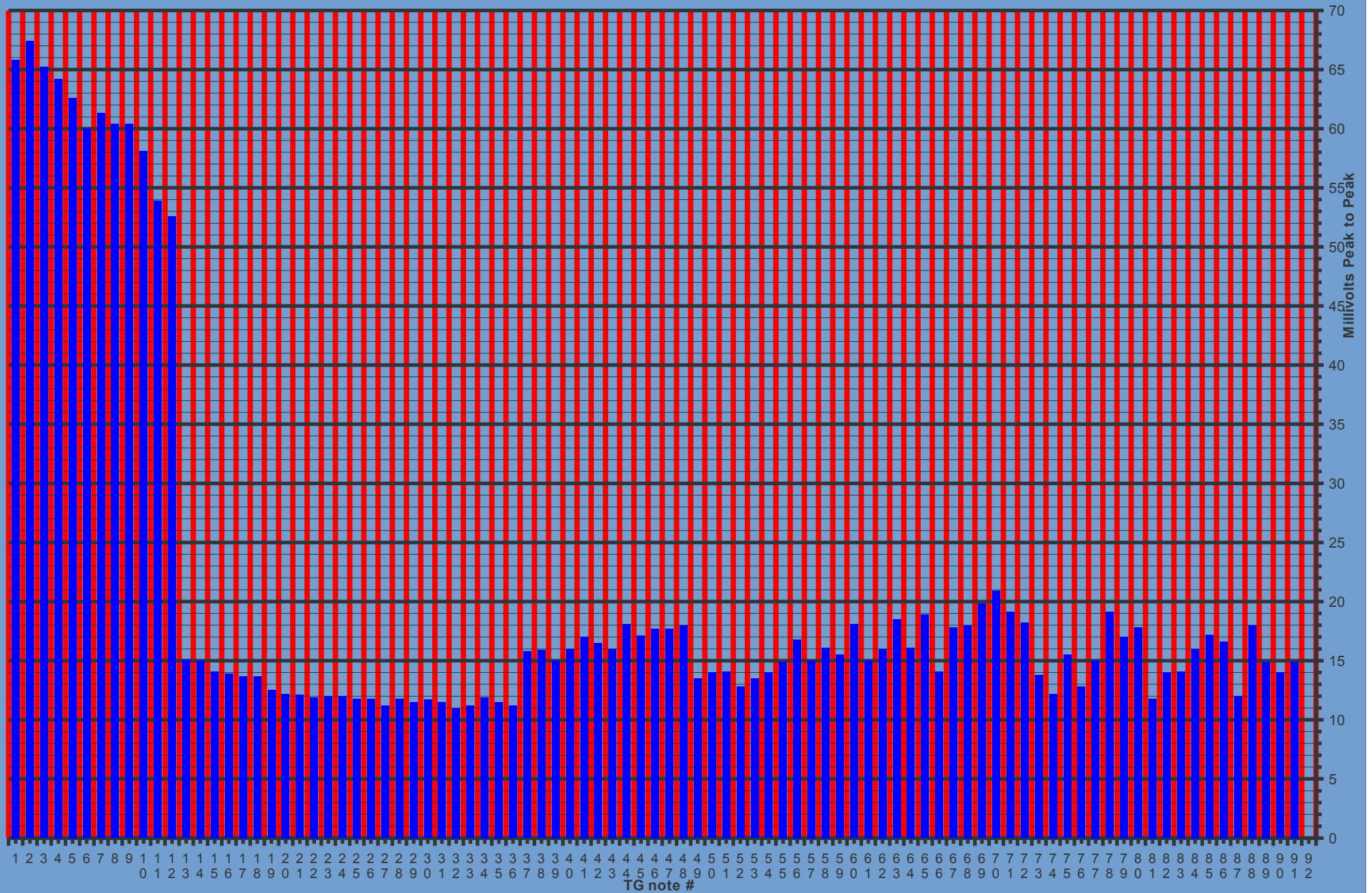
Jo's pre 1964 recapped B3 TG measured by Benjamin Massy, April 2014.



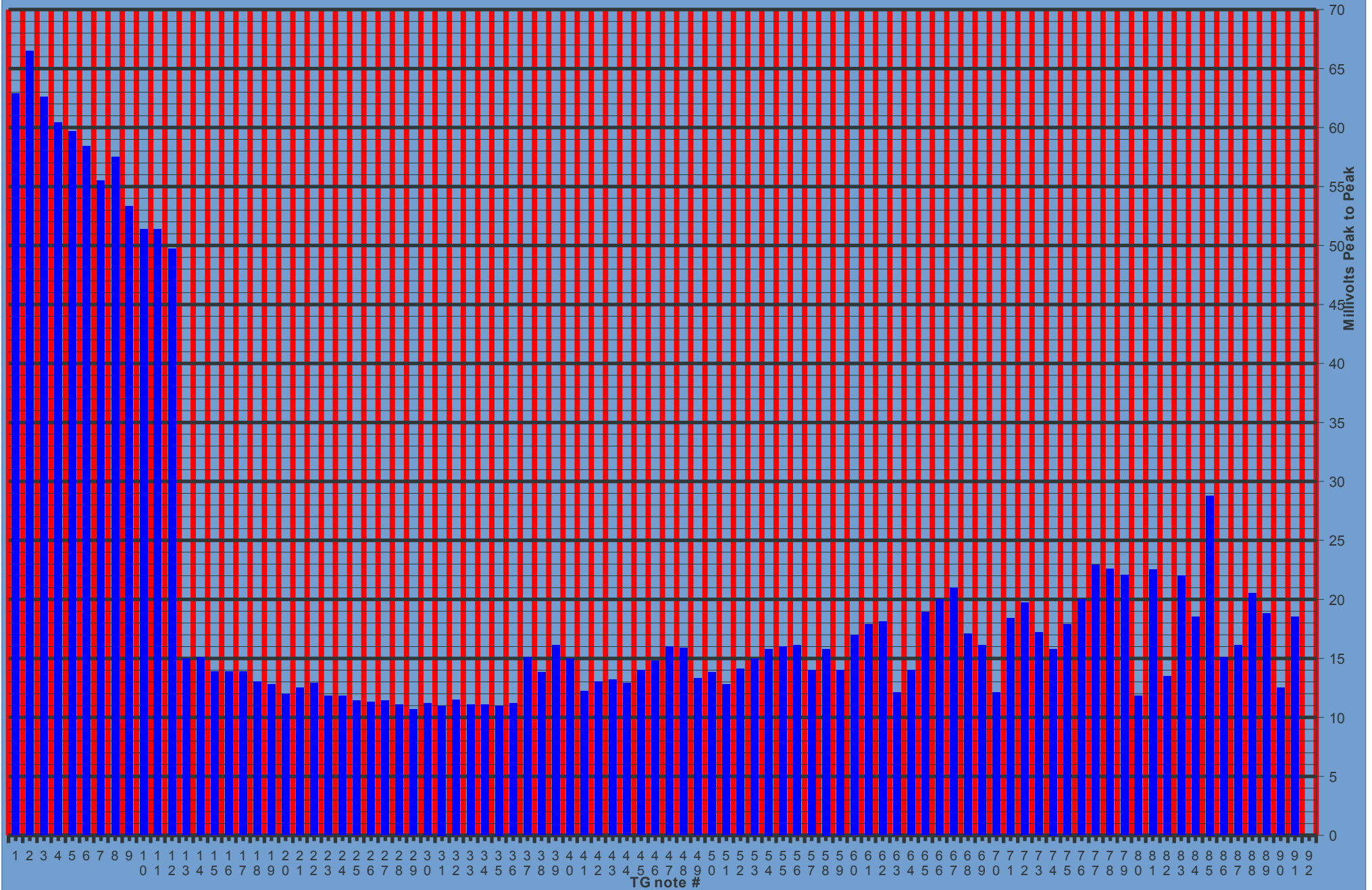
Simon's 1965 B3 S/n 95156. TG with wax capacitors from a pre -1964 A100. B3 used by Jon Lord and Ian McLagan for their Melbourne concerts. This B3 appears on the 2003 Jon Lord Melbourne concert on the DVD "Jon Lord with pictures". Measured by Kon



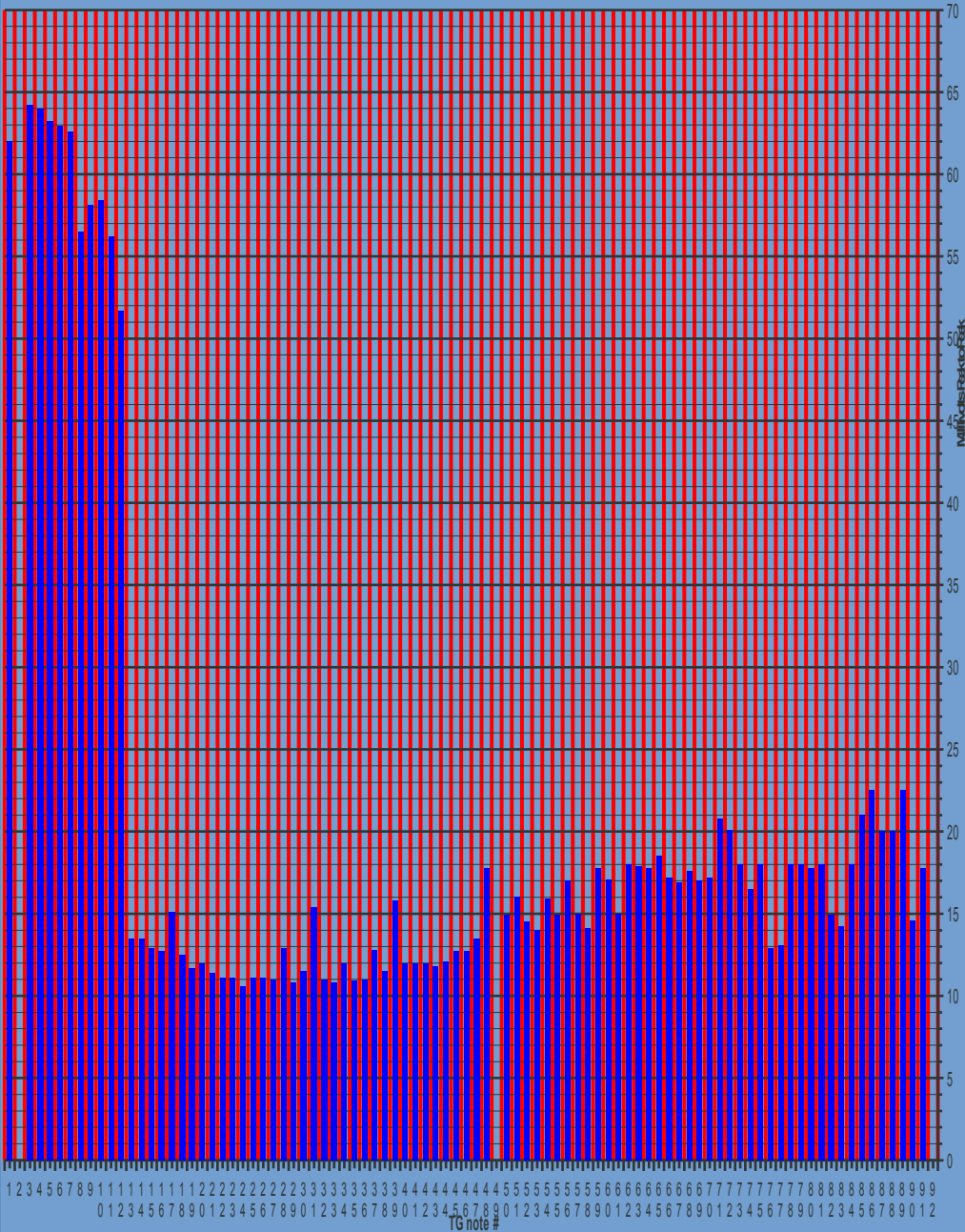
Simon's 1964 - 65 red mylar capped B3 TG measured by Kon, 22 October 2009. TG not in organ.



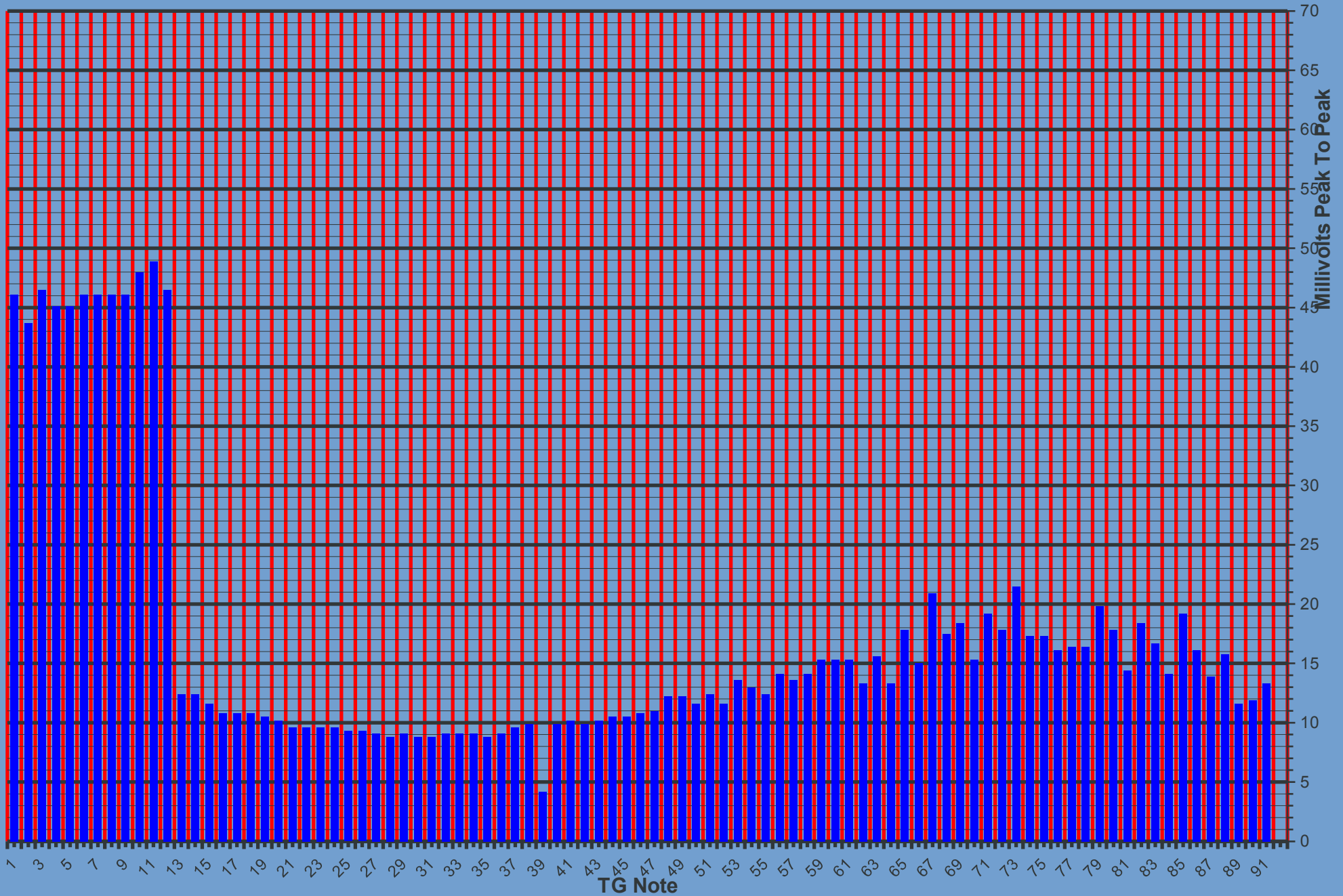
Simon's 1966 red mylar capped B3. S/n 95666. TG not in organ. TG measured by Kon, 22 October 2009.



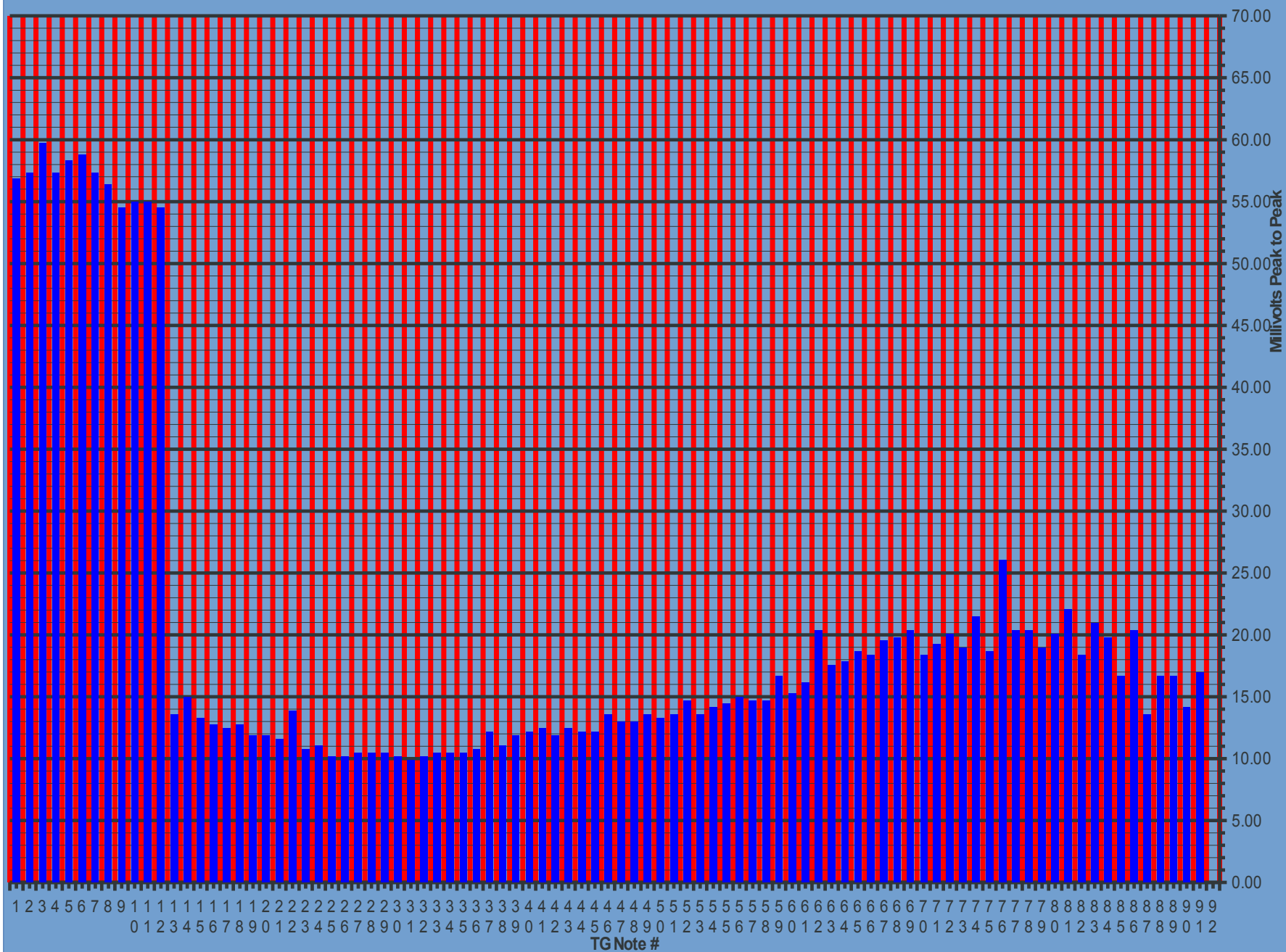
Simon's damaged late 60's red mylar capped B3 TG with a transplanted red mylar capacitors tray. TG not in organ. Measured by Kon, 22 October 2009. Some banged in and abnormally loud TG notes recalibrated by Kon to be at more normal levels.



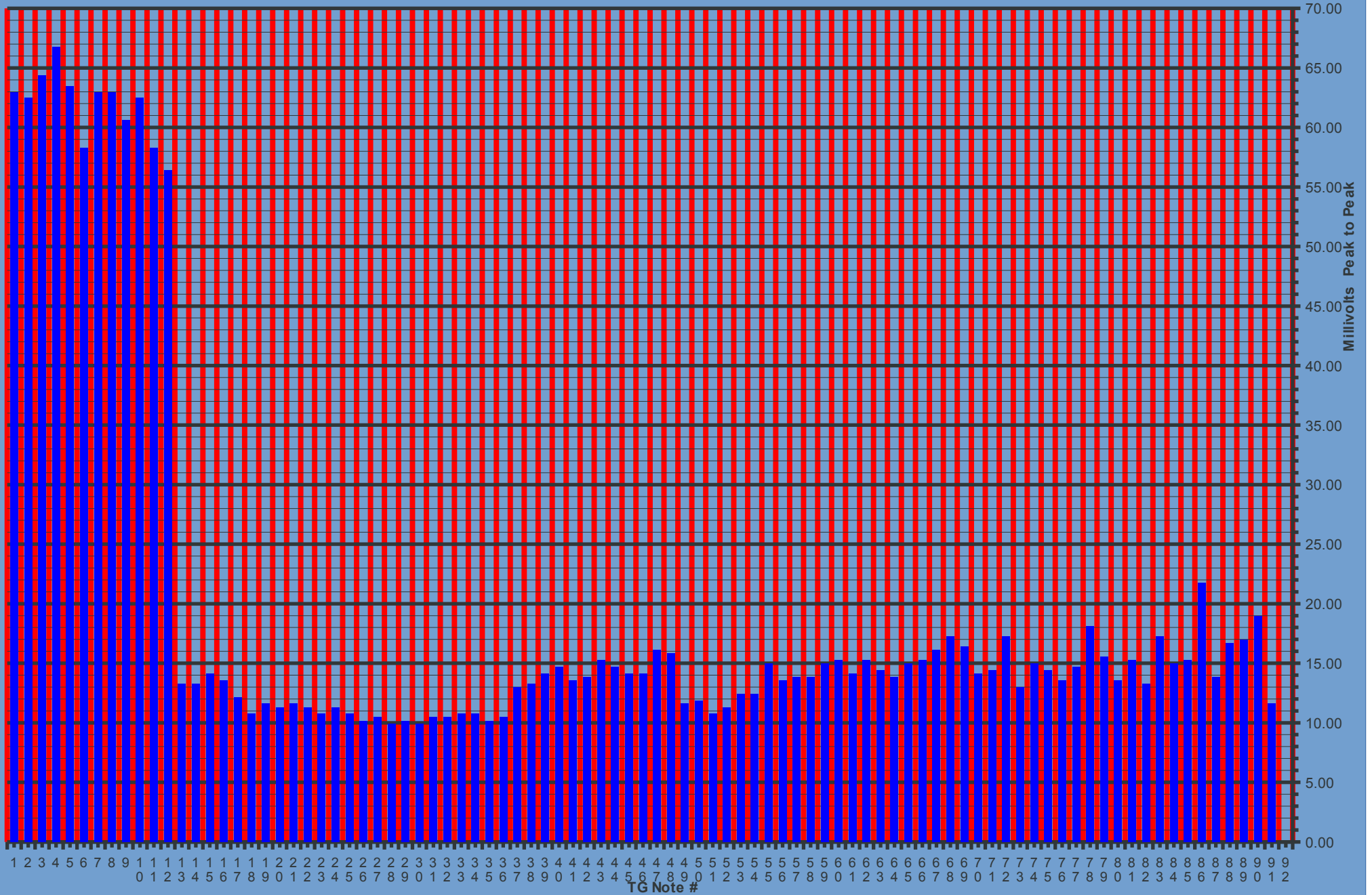
Micha's 1969 B3 with Mylar capacitors mV RMS levels converted to mVpp by Kon.



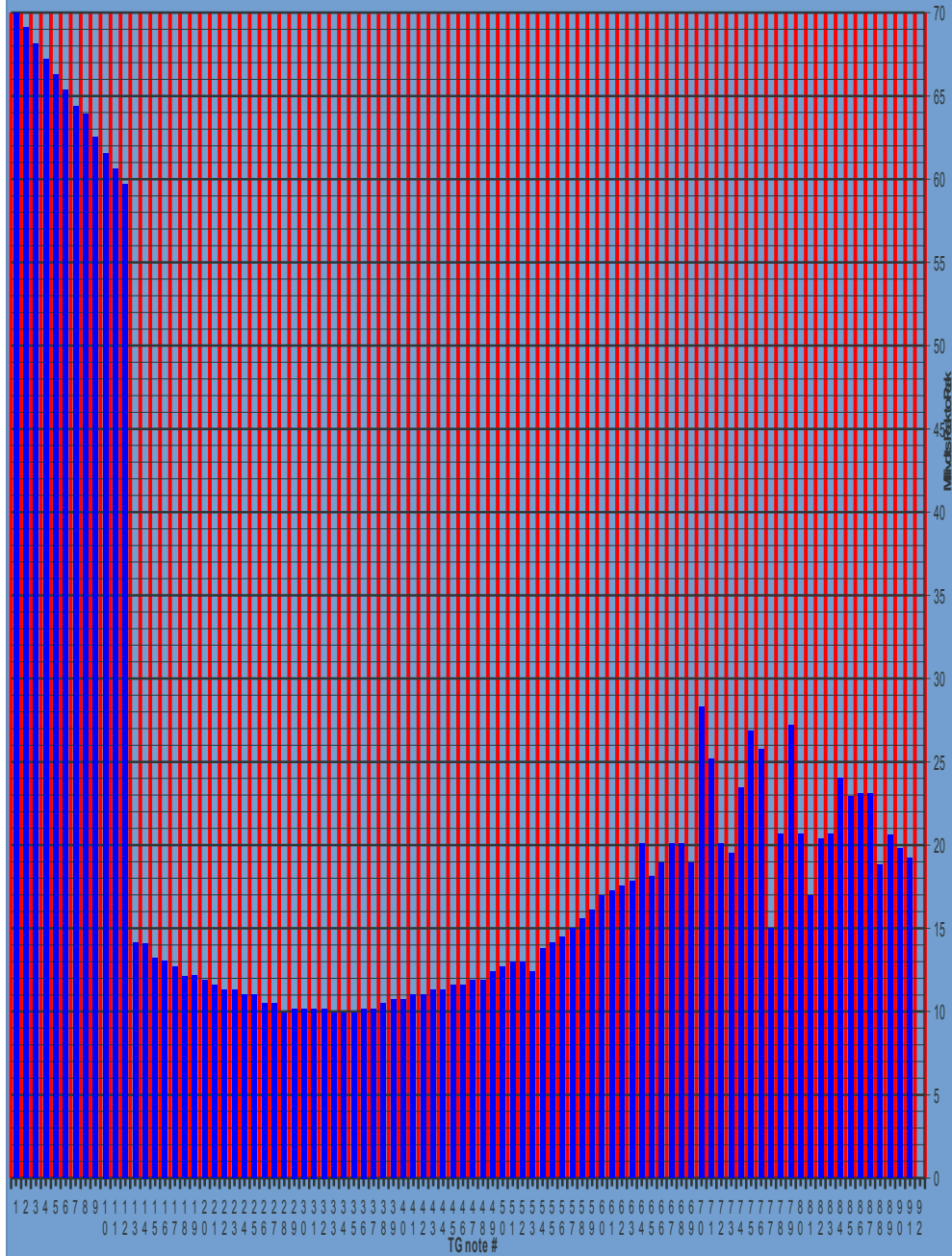
1969 B3 measured by Kai. " Very nice , a good example of a good sounding Hammond. " mV RMS levels converted to mVpp by Kon.



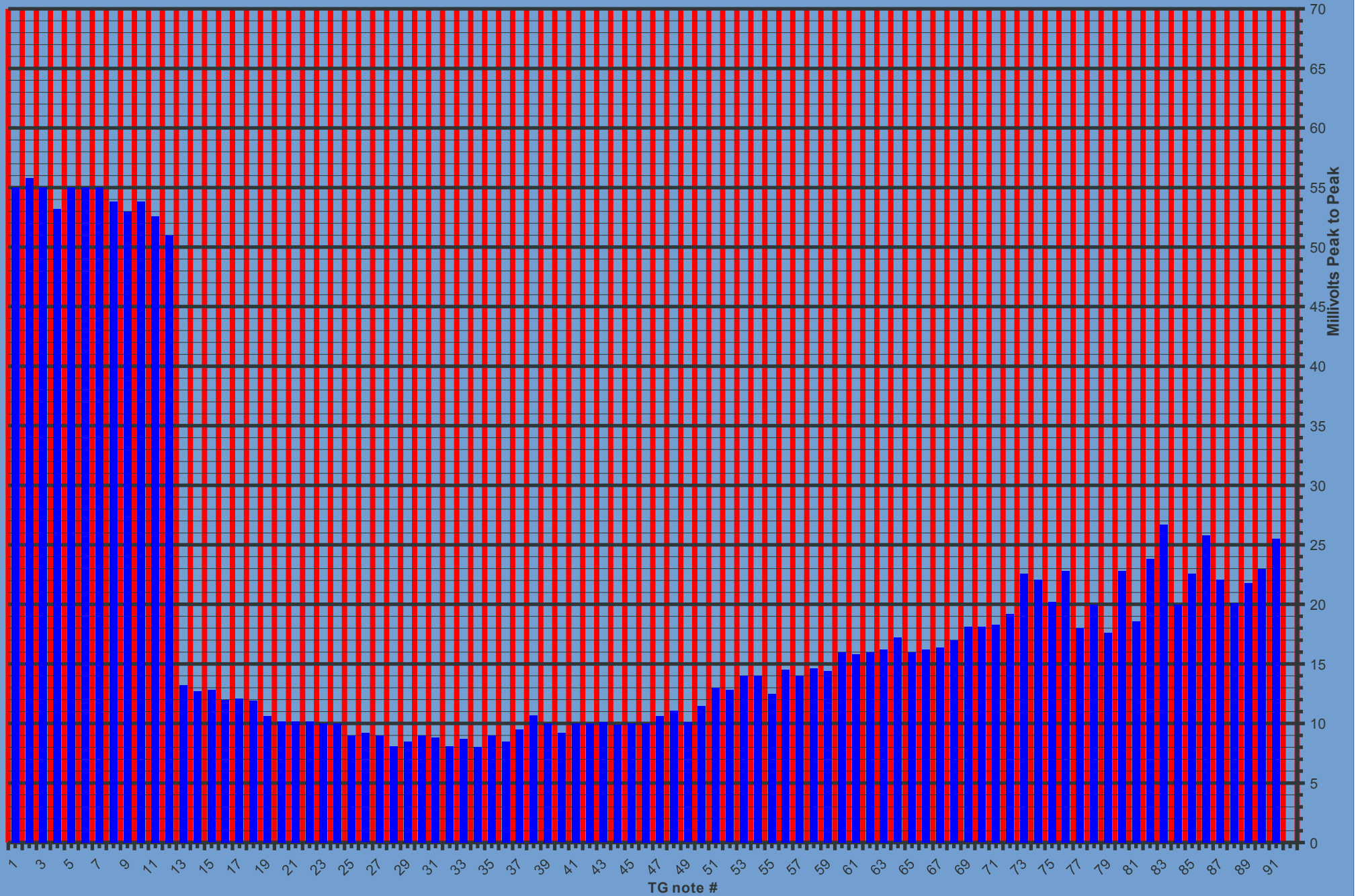
Pat's red mylar capped 1969 B3. Original TG output levels. mV RMS levels converted to mVpp by Kon.



Pat's red mylar capped 1969 B3. TG recalibrated by Pat on September 2010 with a Fluke 79 III meter. mV RMS levels converted to mVpp by Pat. "My B3 sounds bright and screamy but with great definition and the classic late 1960's B3 rock sound that I love".



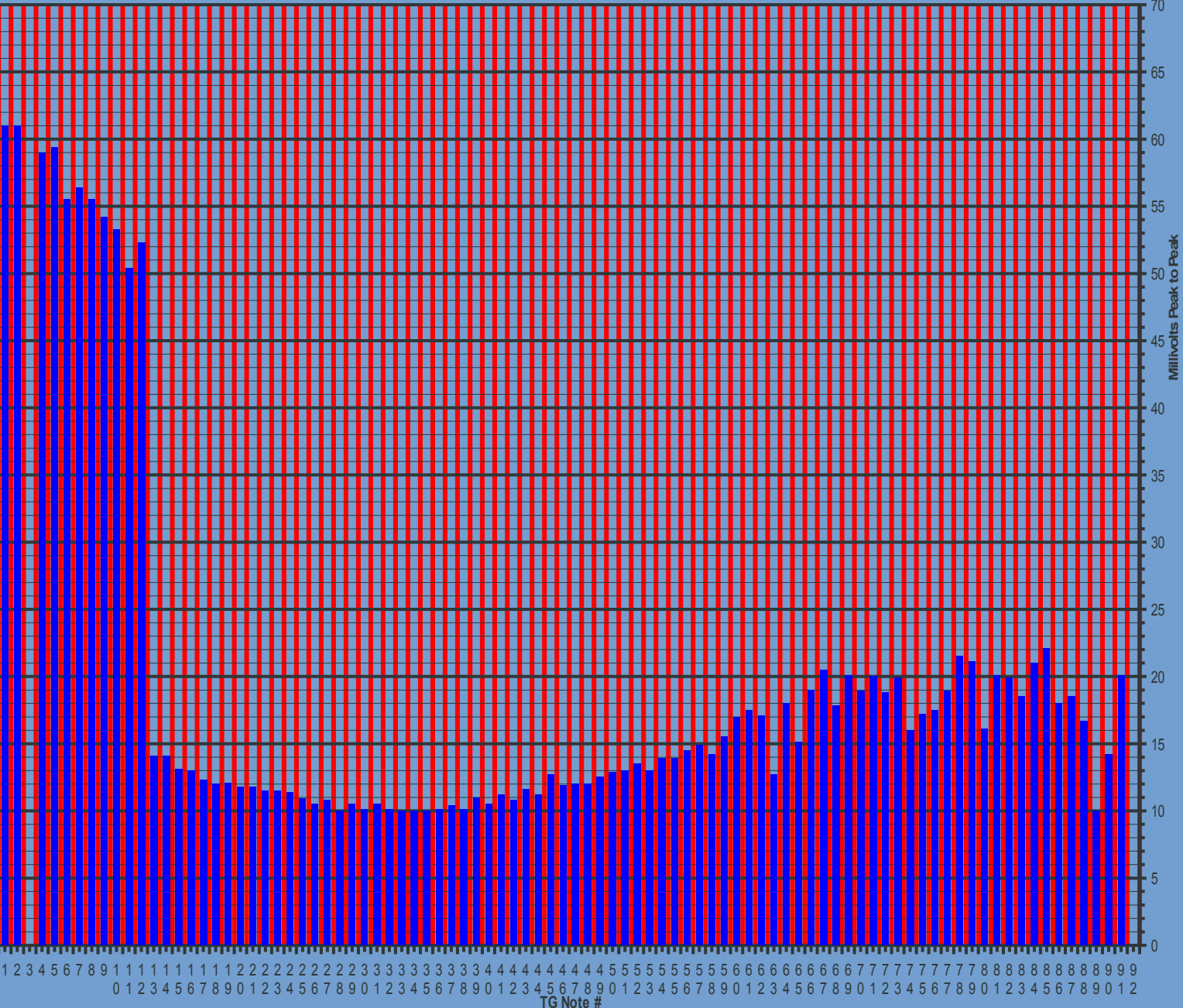
Simon's Fishorgan red mylar capped 1970 B3. Measured by Matthias L.



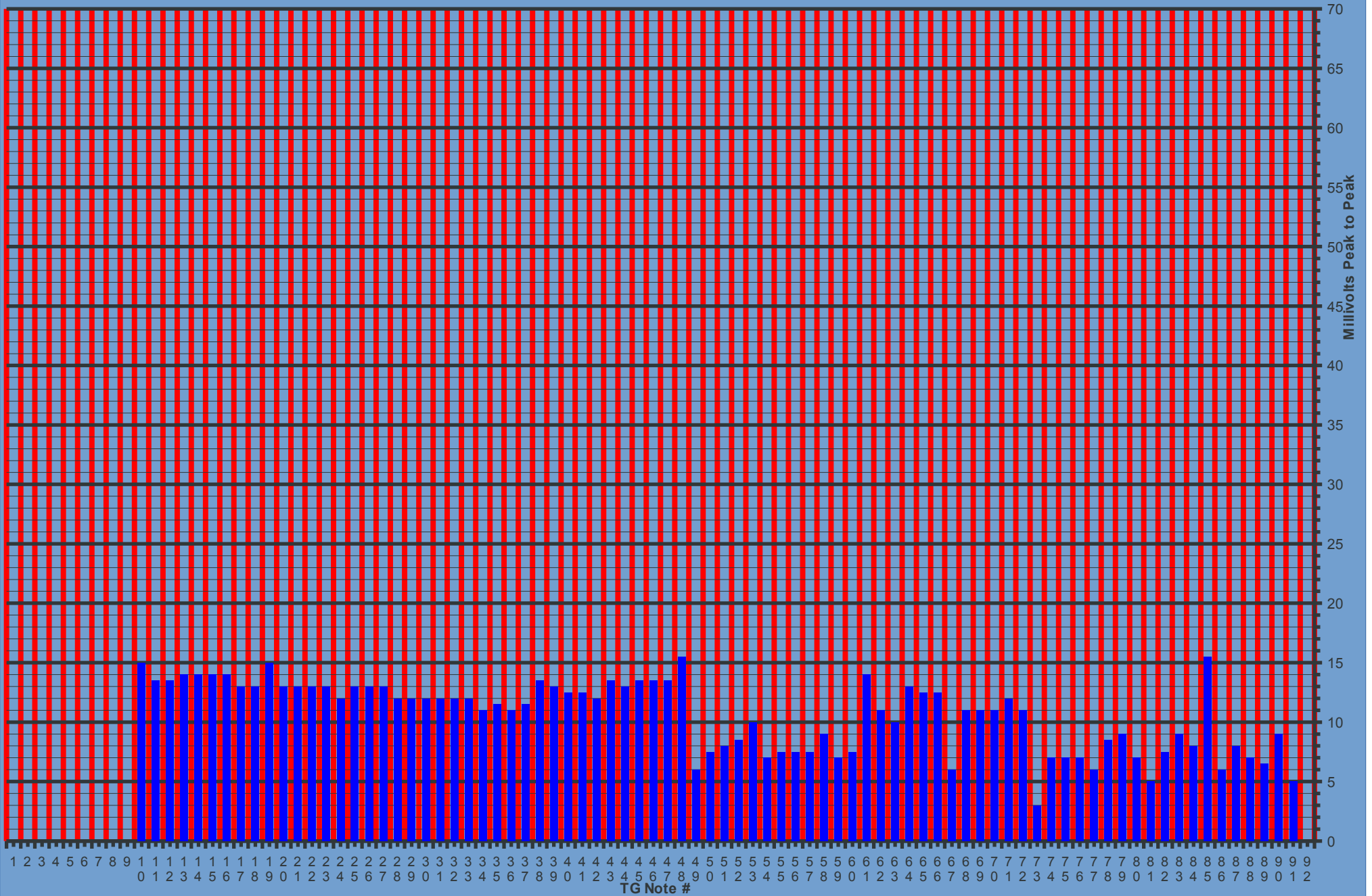
1972 B3 TG measured by Pat.



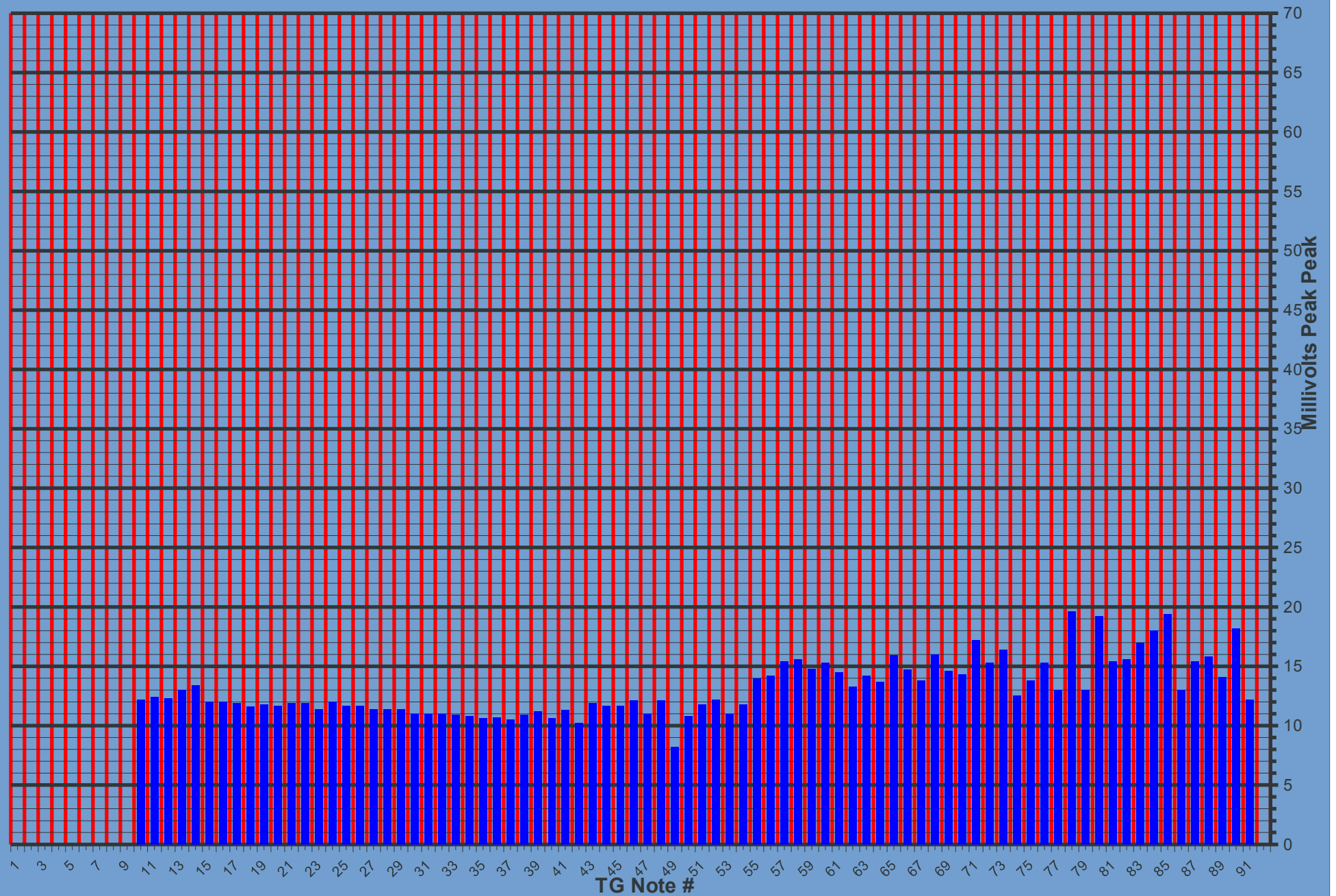
Gary's red mylar capped 1973 B3 s/n E2263866. Strong upper midrange and treble sound. Nice shimmering leakage sound. Measured by Kon 26 March 2007.



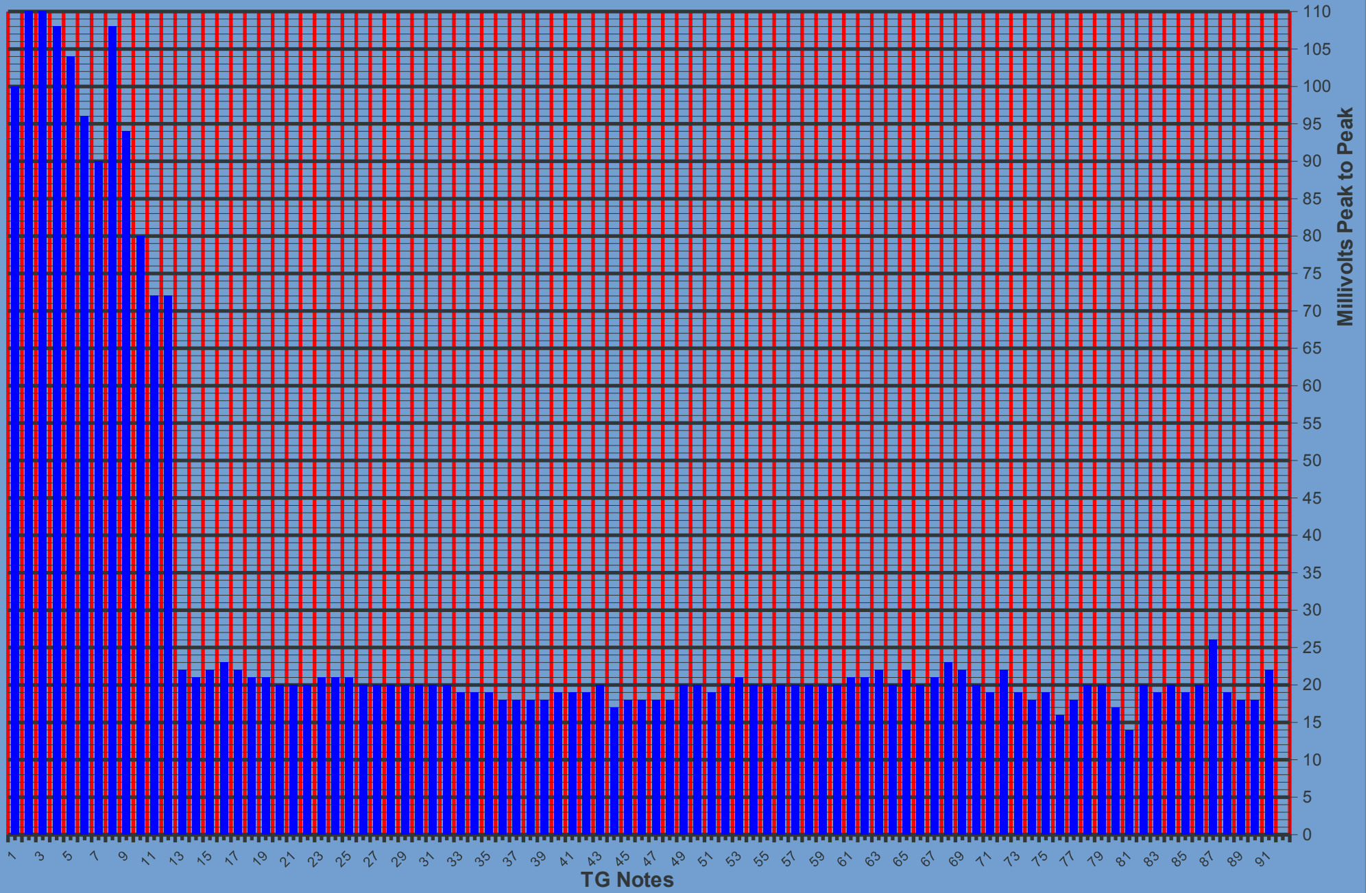
Karlo's 82 Note TG 1945 wax capped CV



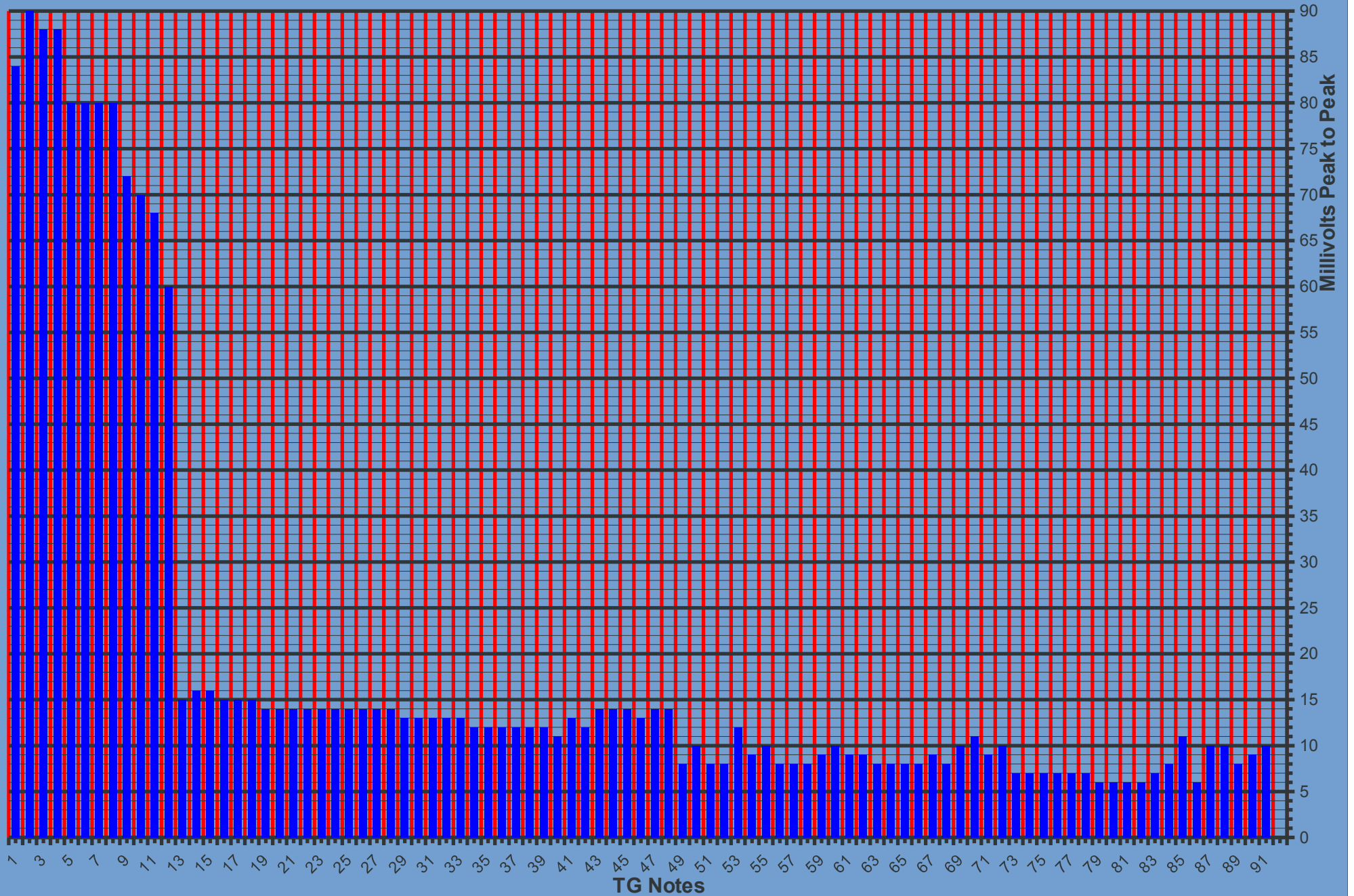
Ilya's - 82 Note TG 1946 CV Recapped with Goff cap kit.



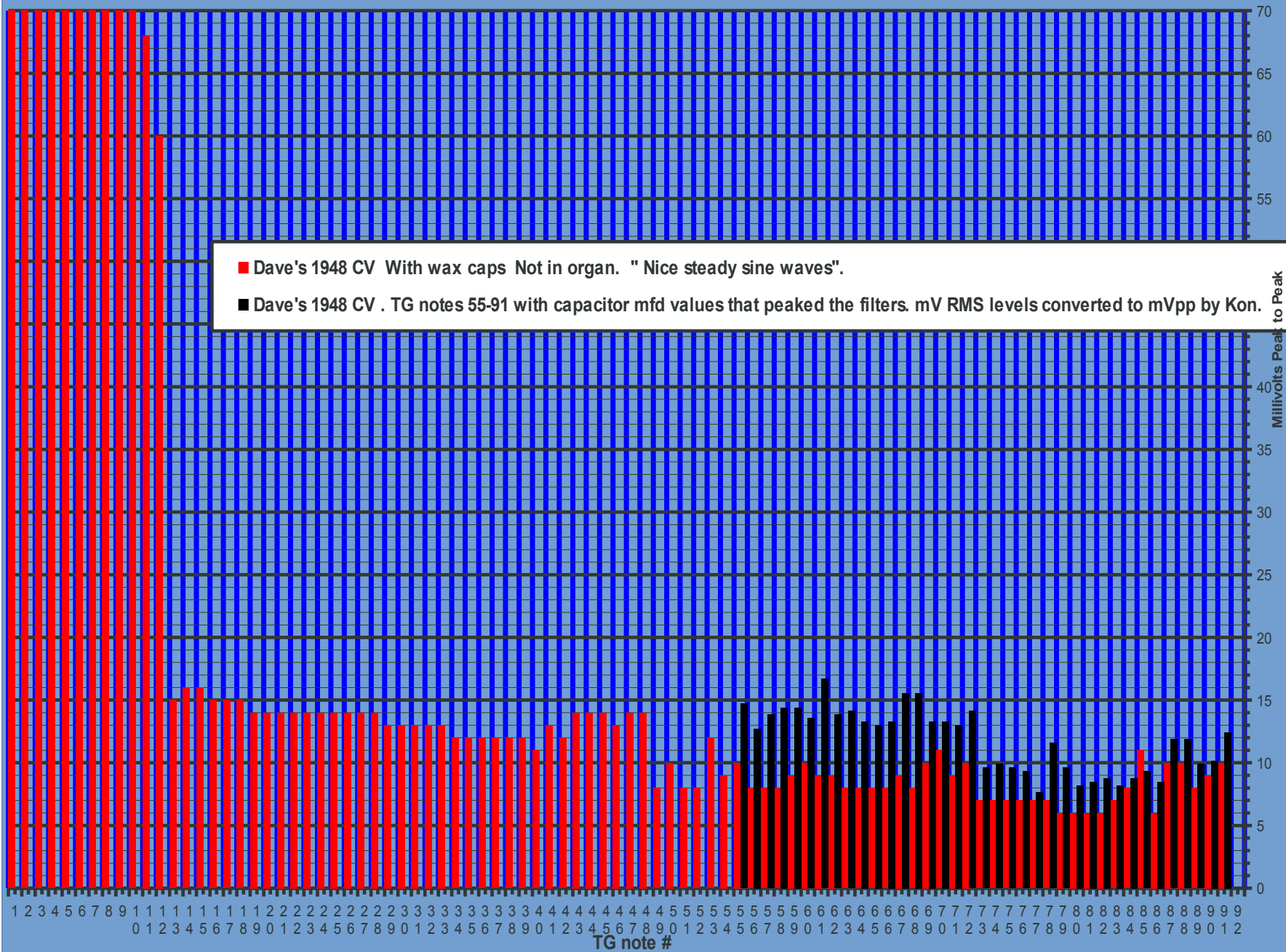
Dave's 1947 CV With Goff cap kit . " Lots of warbling tones ".



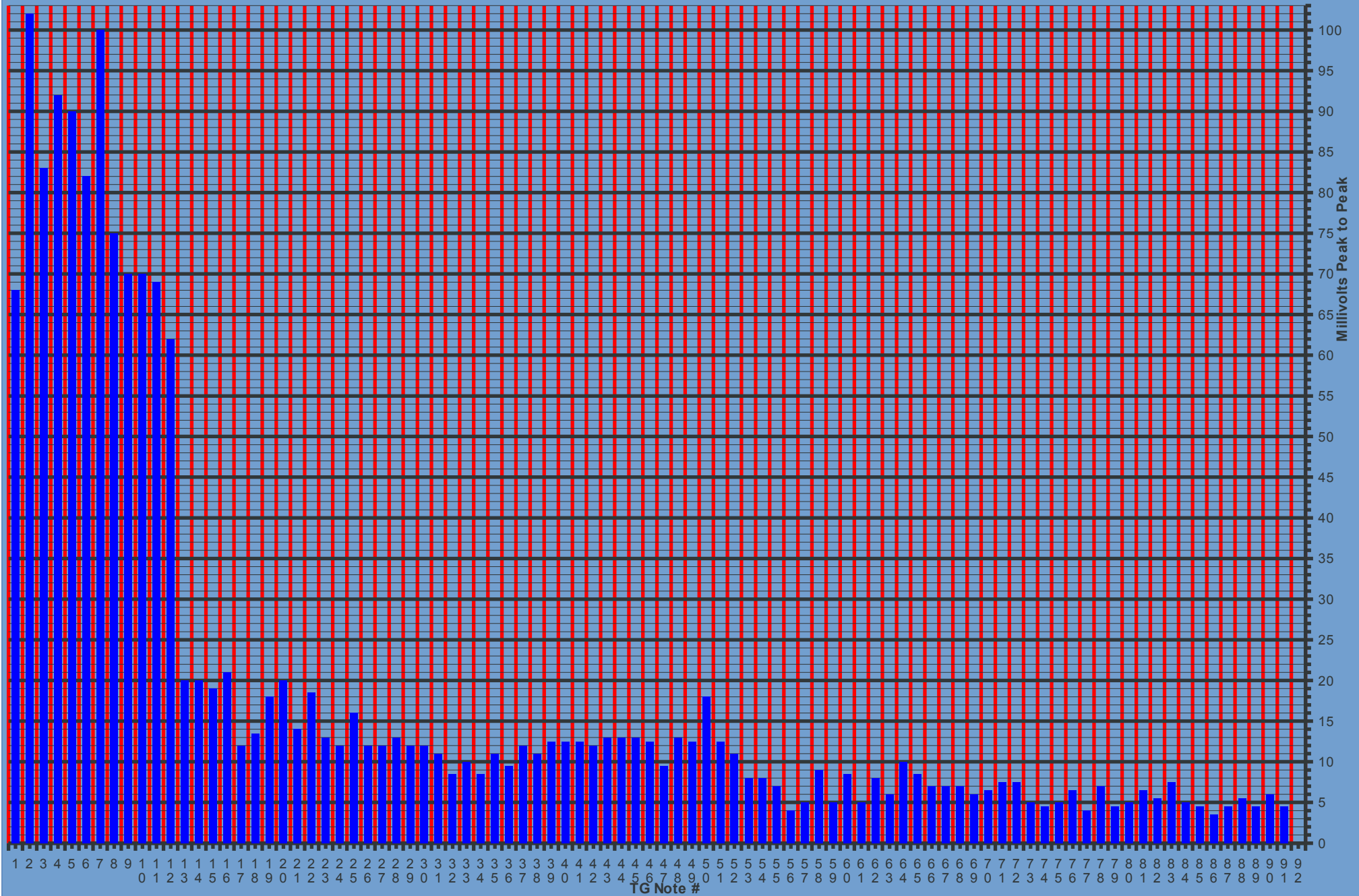
Dave's 1948 CV With wax caps. " Nice steady sine waves".



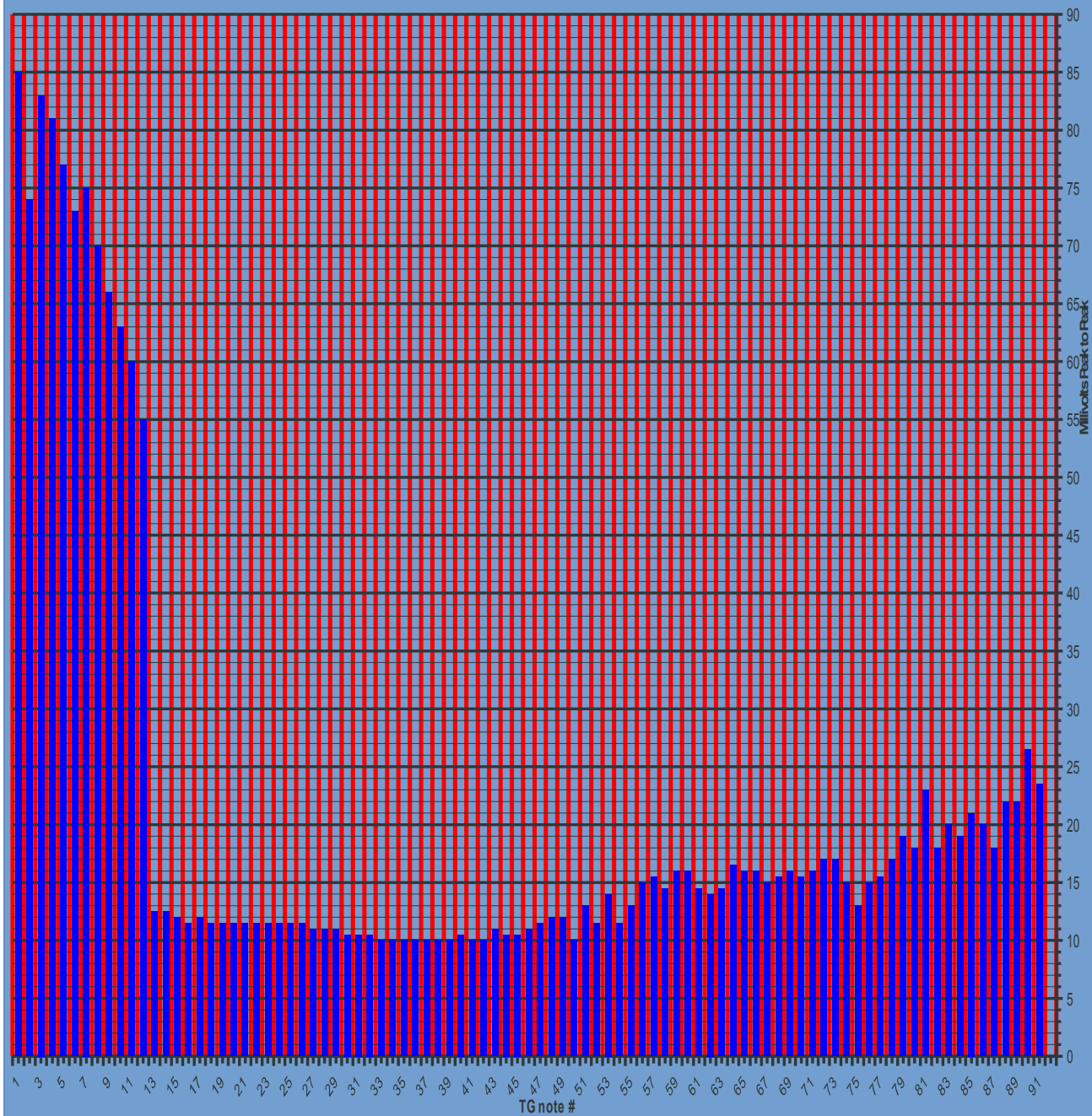
Dave's 1948 CV. Comparison between the aged wax caps and the capacitor mfd values that peaked the filters for the TG notes 55 to 91.



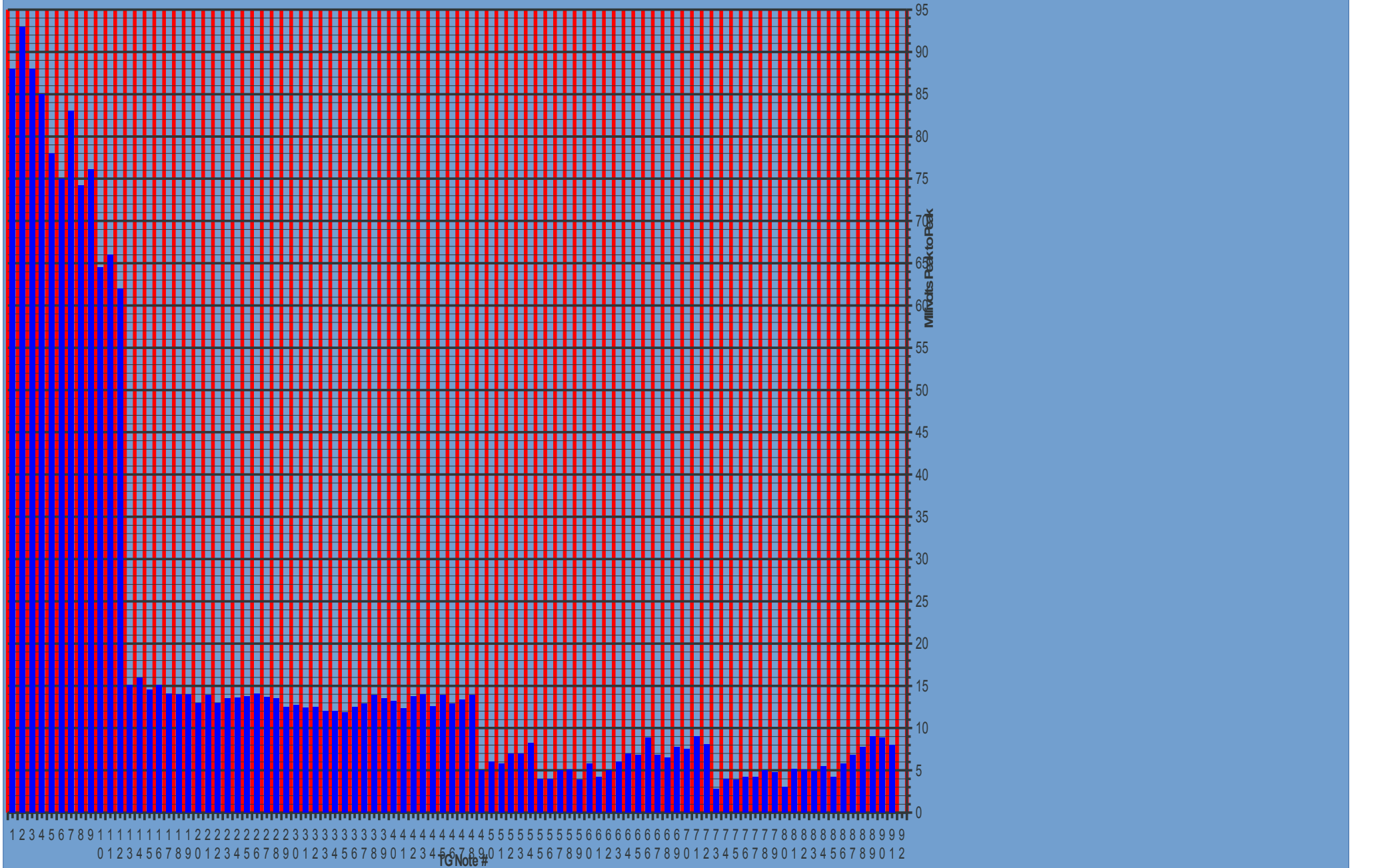
Christoph's C2 G. Wax capacitors. "Very bassy sound".



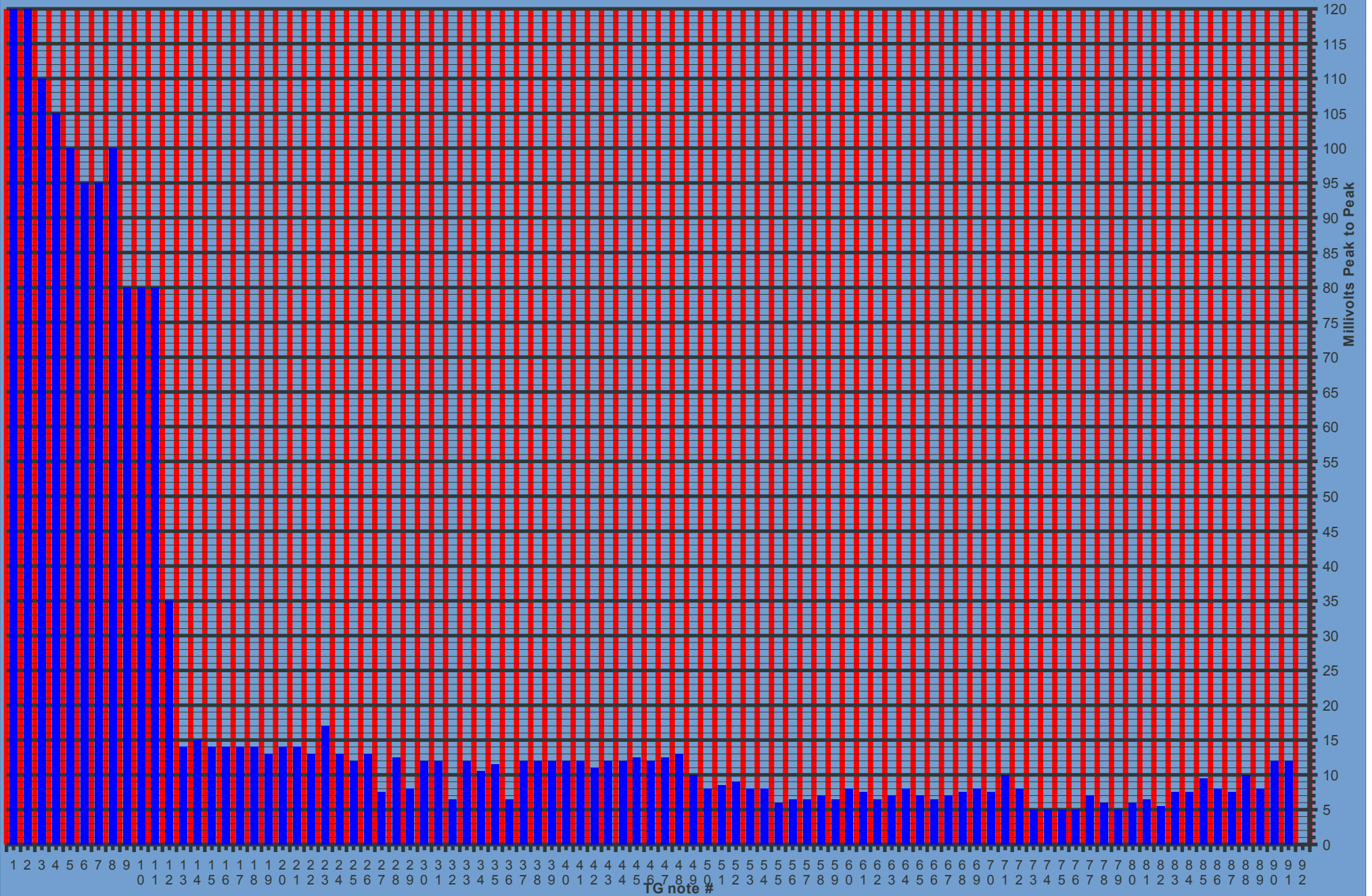
Christian's recapped 1950 C2. S/n 37447. Recapped in 1994. "Much definition, I guess no recalibration was done. The organ sounds great, so in principle no need for me to do any adjustments".



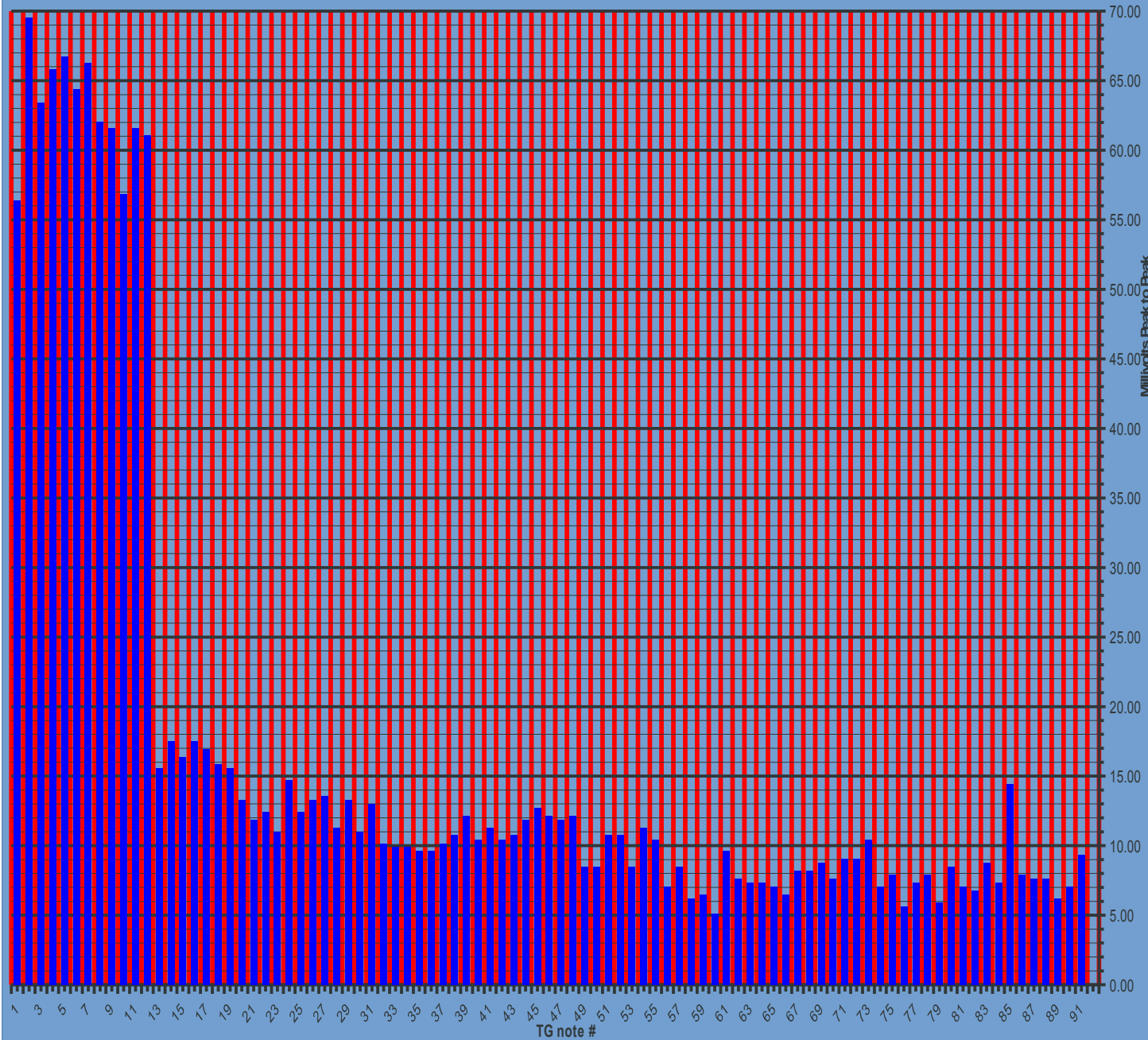
Robert's wax capped 1951 to 54 ? TG from a B2 or a C2 organ in a home made cabinet with an AO28 preamp and pre 1960 C3 manuals. Warm mellow sound. Measured by Kon.



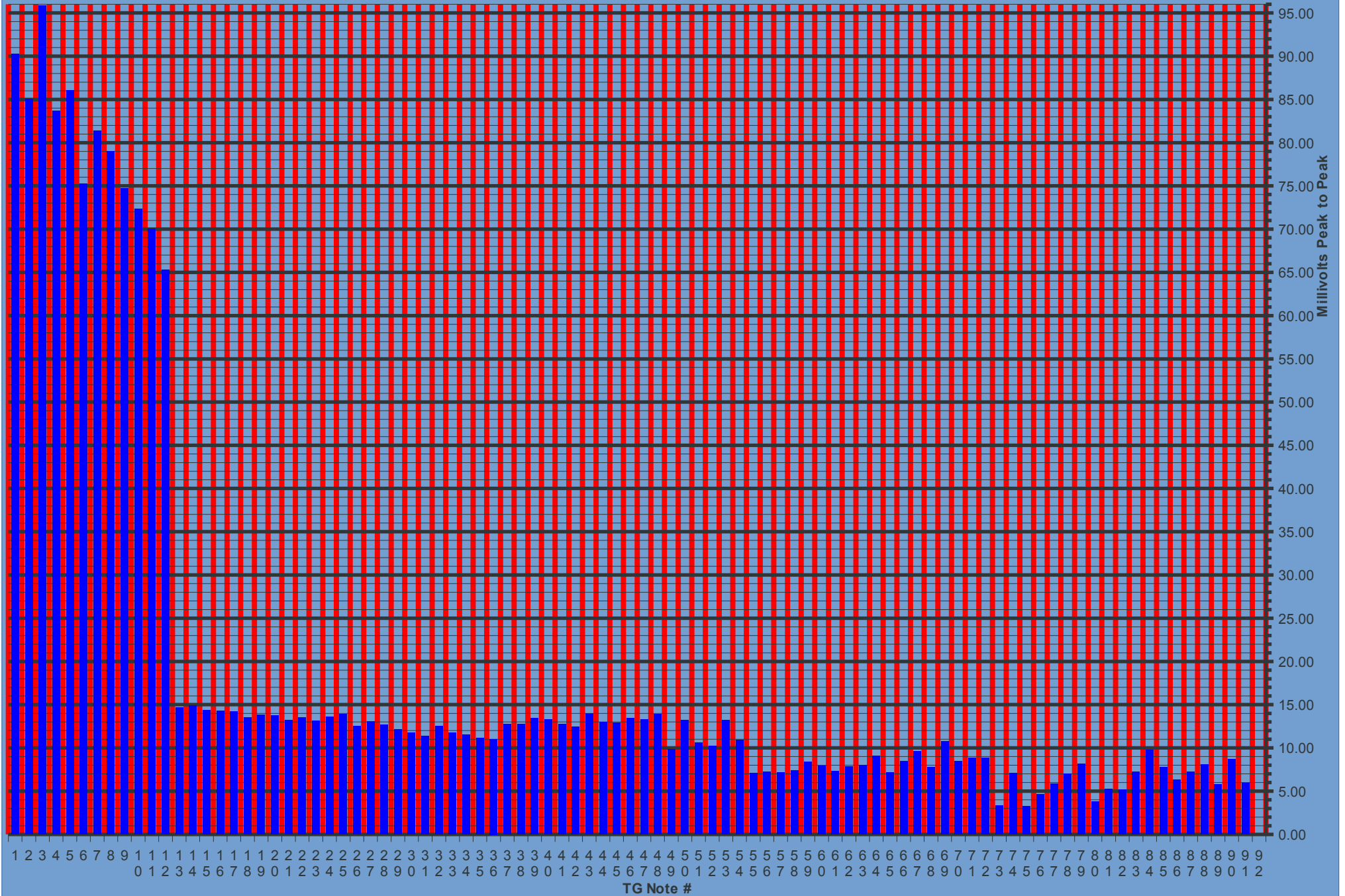
Benjamin's wax capped 1954 C2 S/n 51323 Measured by Benjamin with Tektronix oscilloscope.



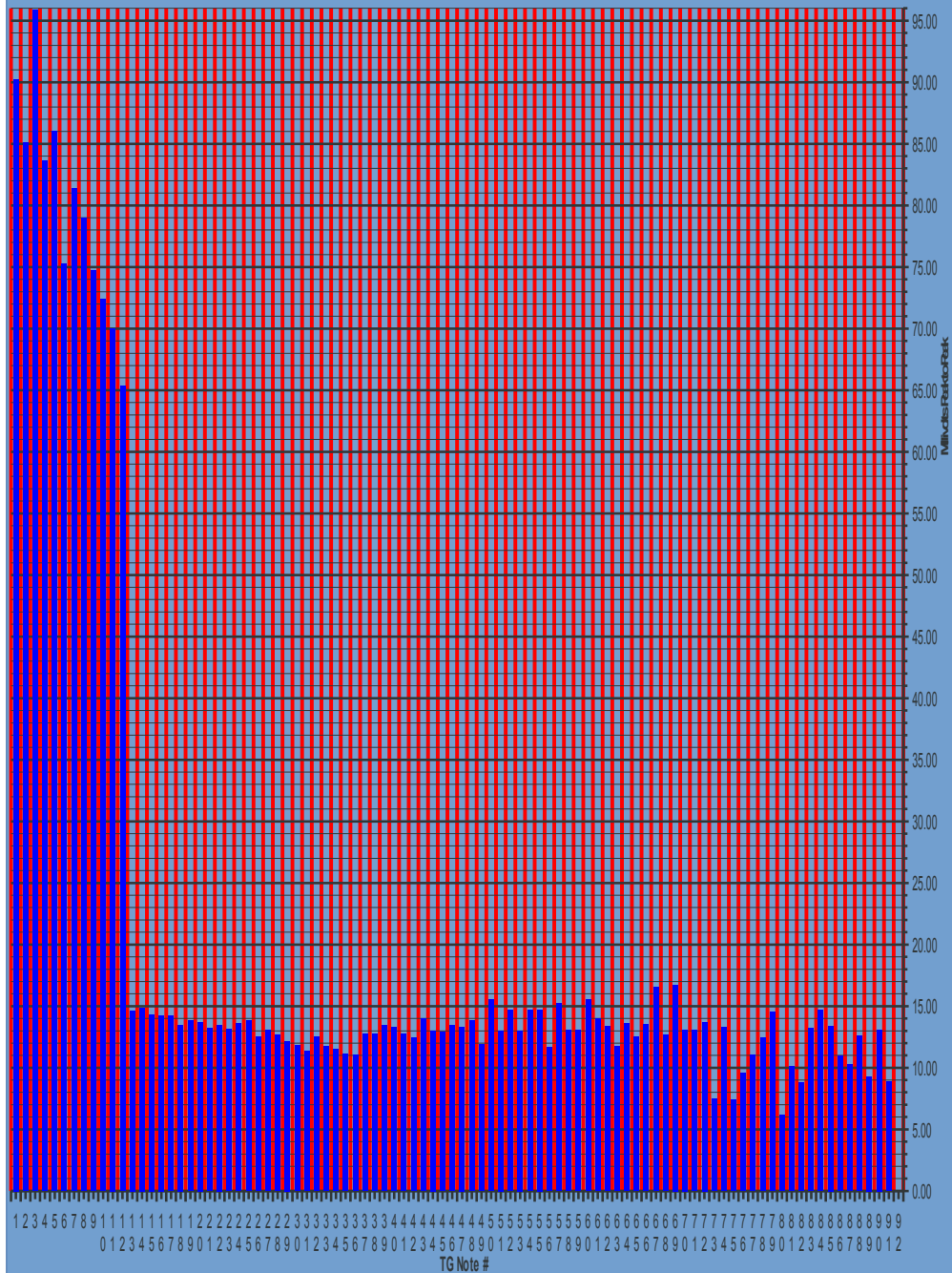
Sam's wax capped B3 or C3 ? Bill Beer chop organ formerly owned by the band Kansas. Measured by Tyler with a Fluke DVM. mV RMS levels converted to mVpp by Kon.



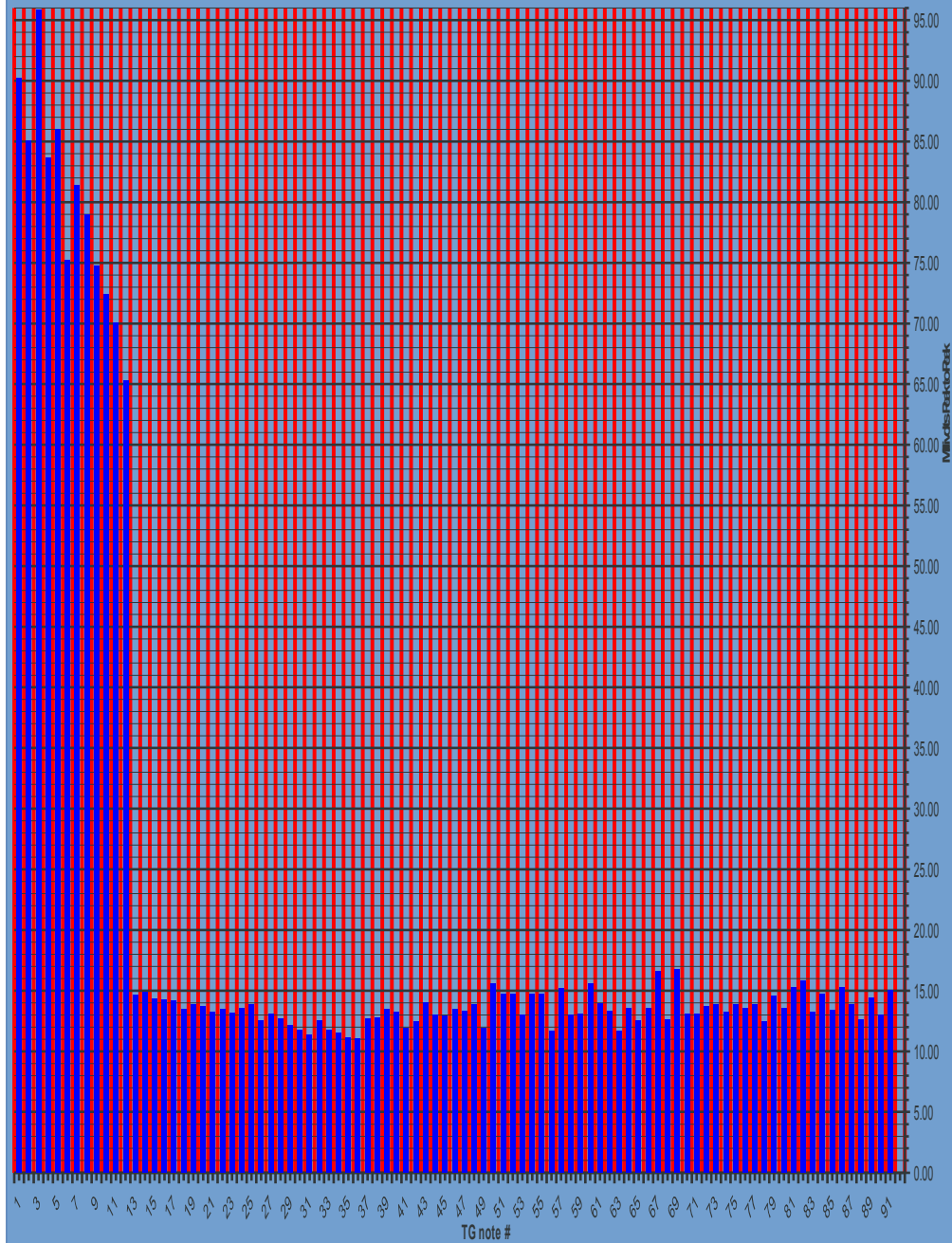
Greg's wax capped 1955 C3 S/n 59908 Measured by John Mihevic. mV RMS levels converted to mvPP by Kon.



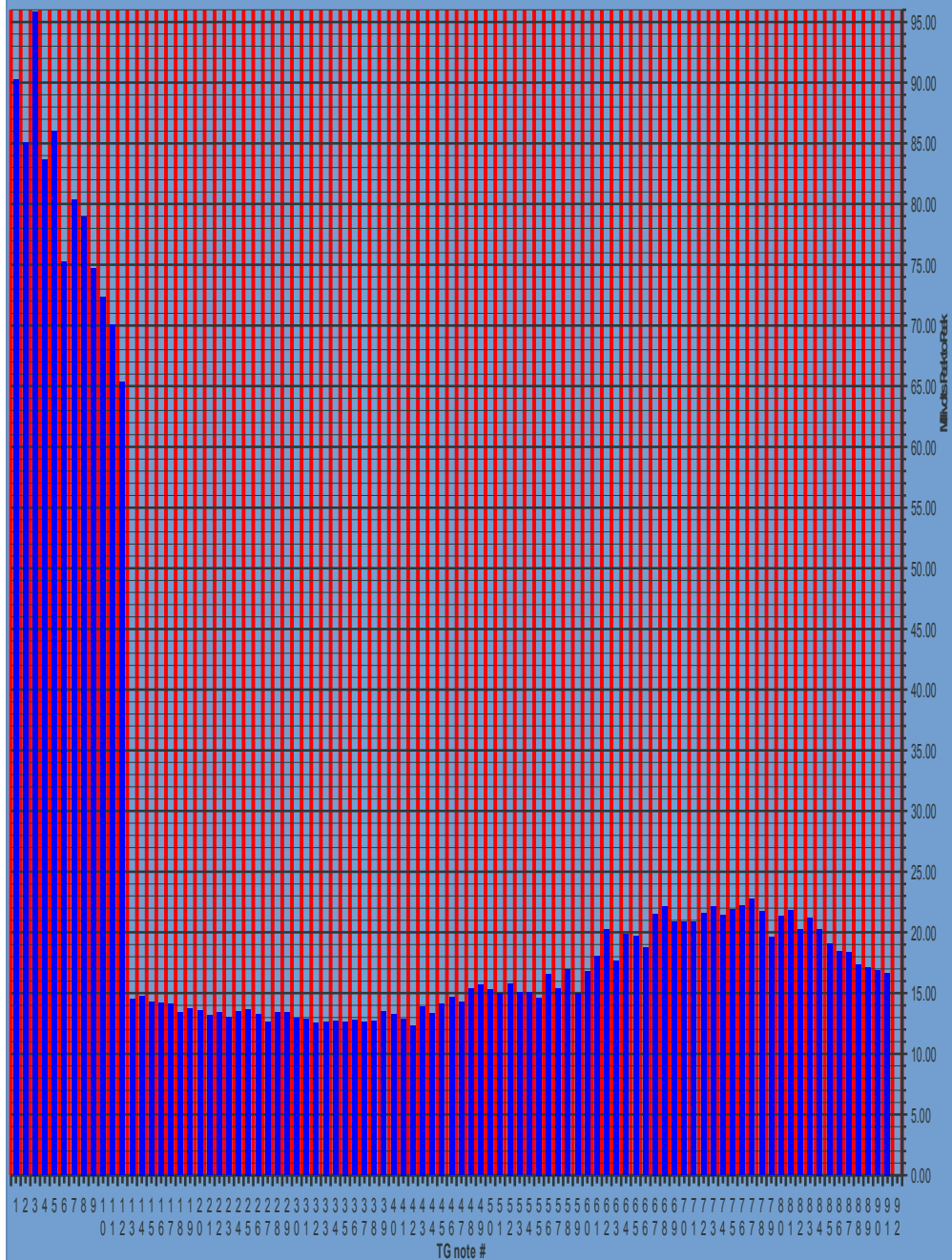
Greg's recapped 1955 C3. S/n 59908 Recapped by John Mihevic on 26 Oct 2010 with 0.22 uf and 0.1uf Goff caps. 0.033uf caps added in parallel with the 0.22uf caps. "It sounds better but it should be recalibrated". mV RMS levels converted to mvPP by Kon.



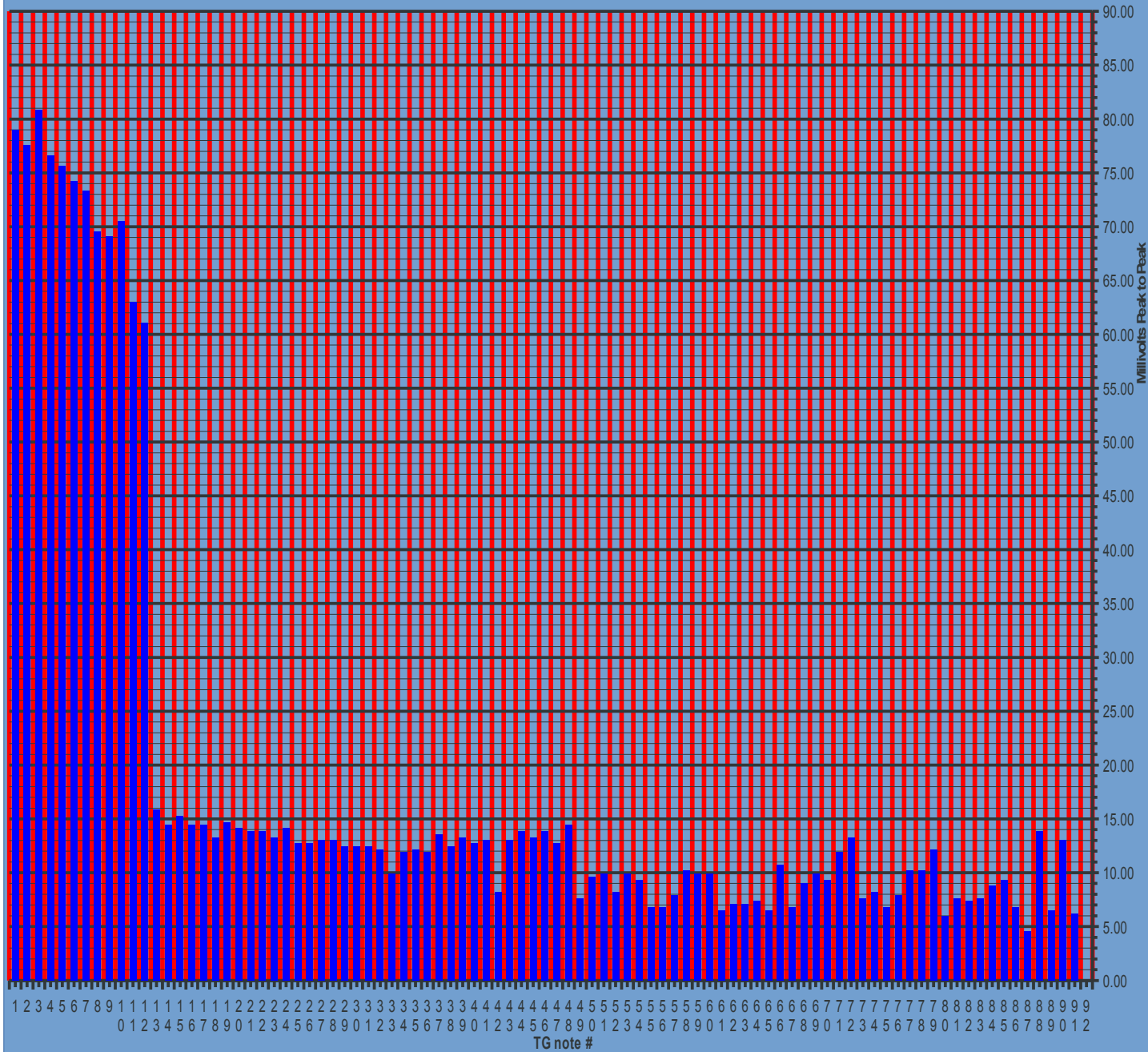
Greg's recapped and partially recalibrated 1955 C3. S/n 59908 . RC hum filter added to TG note 41, and some higher TG notes recalibrated by Greg on 19 May 2011. "It sounds a lot better then when I first got it" . MVRMS levels converted to mVpp by Kon.



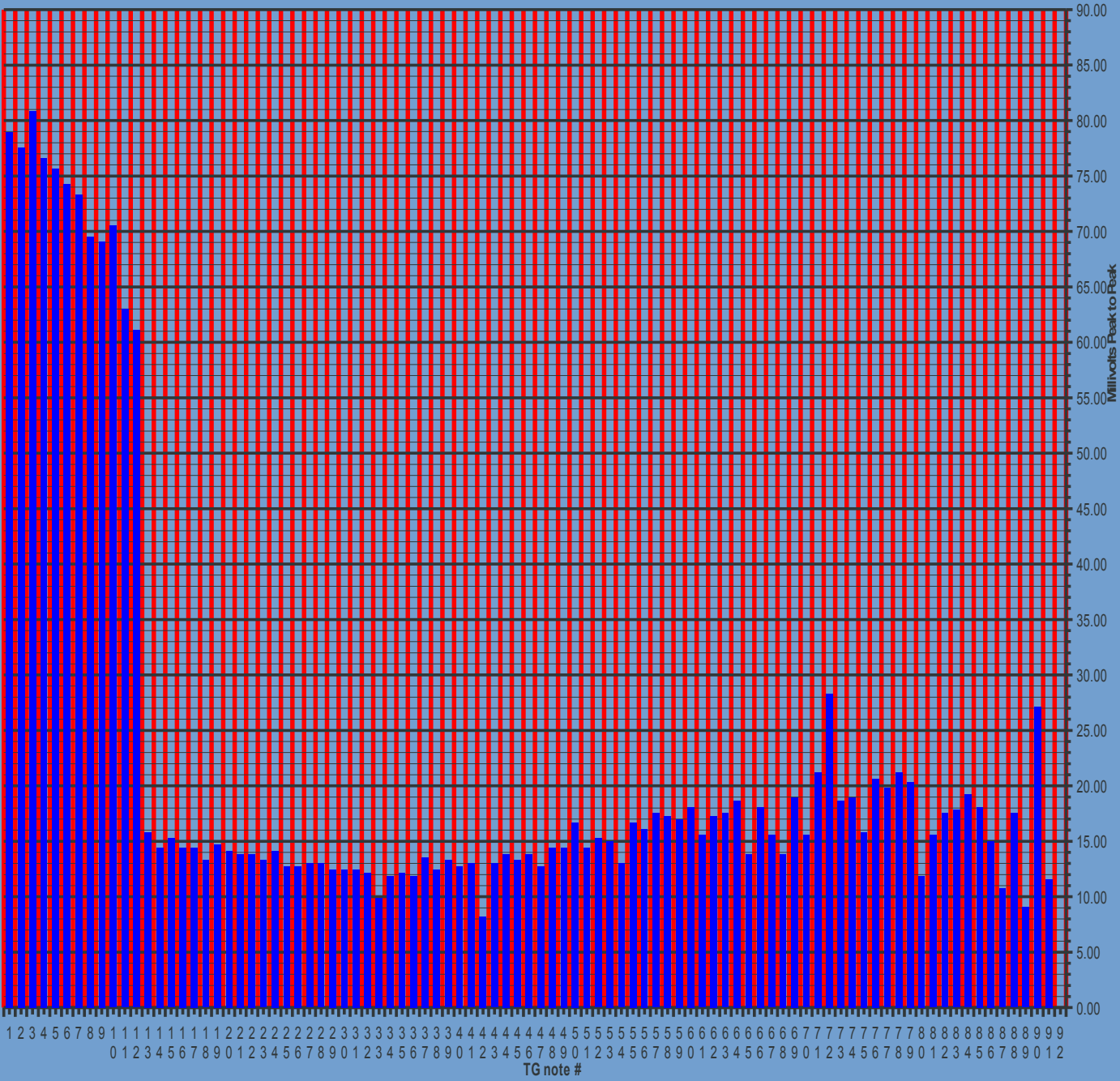
Greg's recalibrated 1955 C3 S/n 59908. Stock capacitors tray replaced with a 1964 L-100 red mylar caps tray with transformer filters for the TG notes 44 to 48. Measured with Fluke 87v True RMS meter. MV RMS levels converted to mVpp by Kon, 6 October 2017.



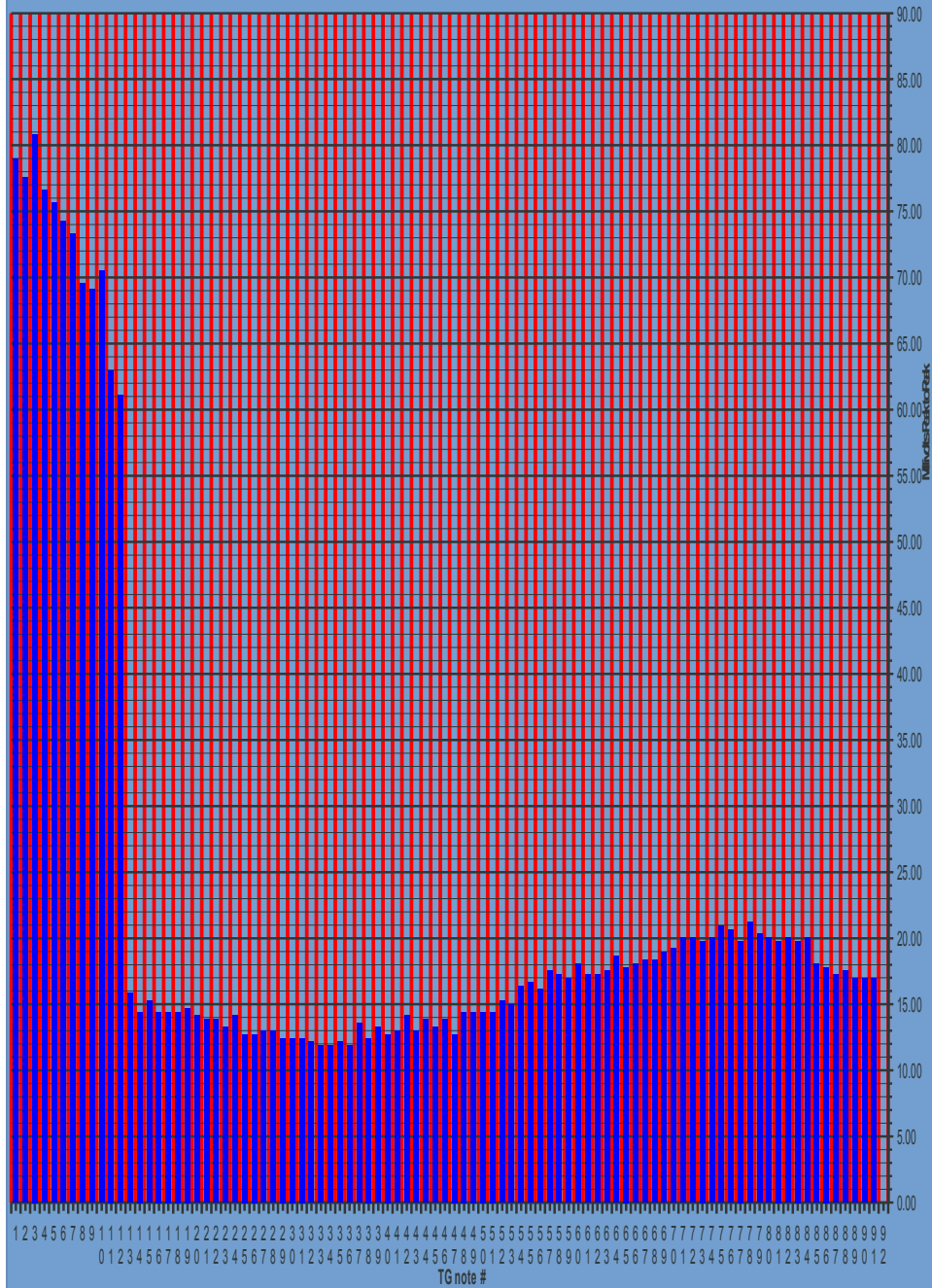
Mark's wax capped 1956 C3. Measured by Mark with Fluke 87 DVOM. MV RMS levels converted to mVpp by Kon. "This one sounds like there is a blanket over the Leslie 147"



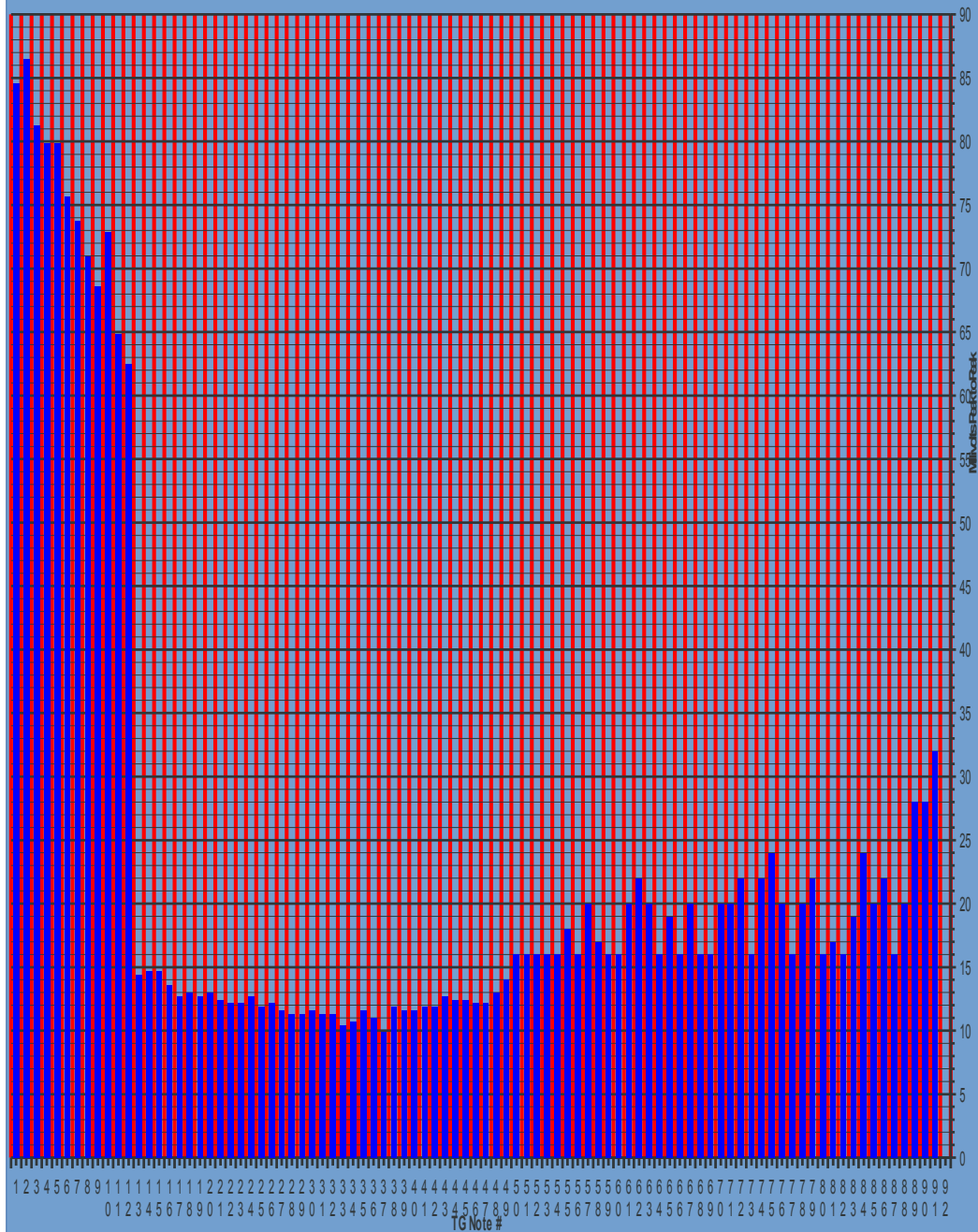
Mark's recapped 1956 C3. Recapped by Mark with 0.252 uf and 0.1 uf Orange Drop capacitors. Measured by Mark with Fluke 87 DVOM. mVRMS levels converted to mVpp by Kon.



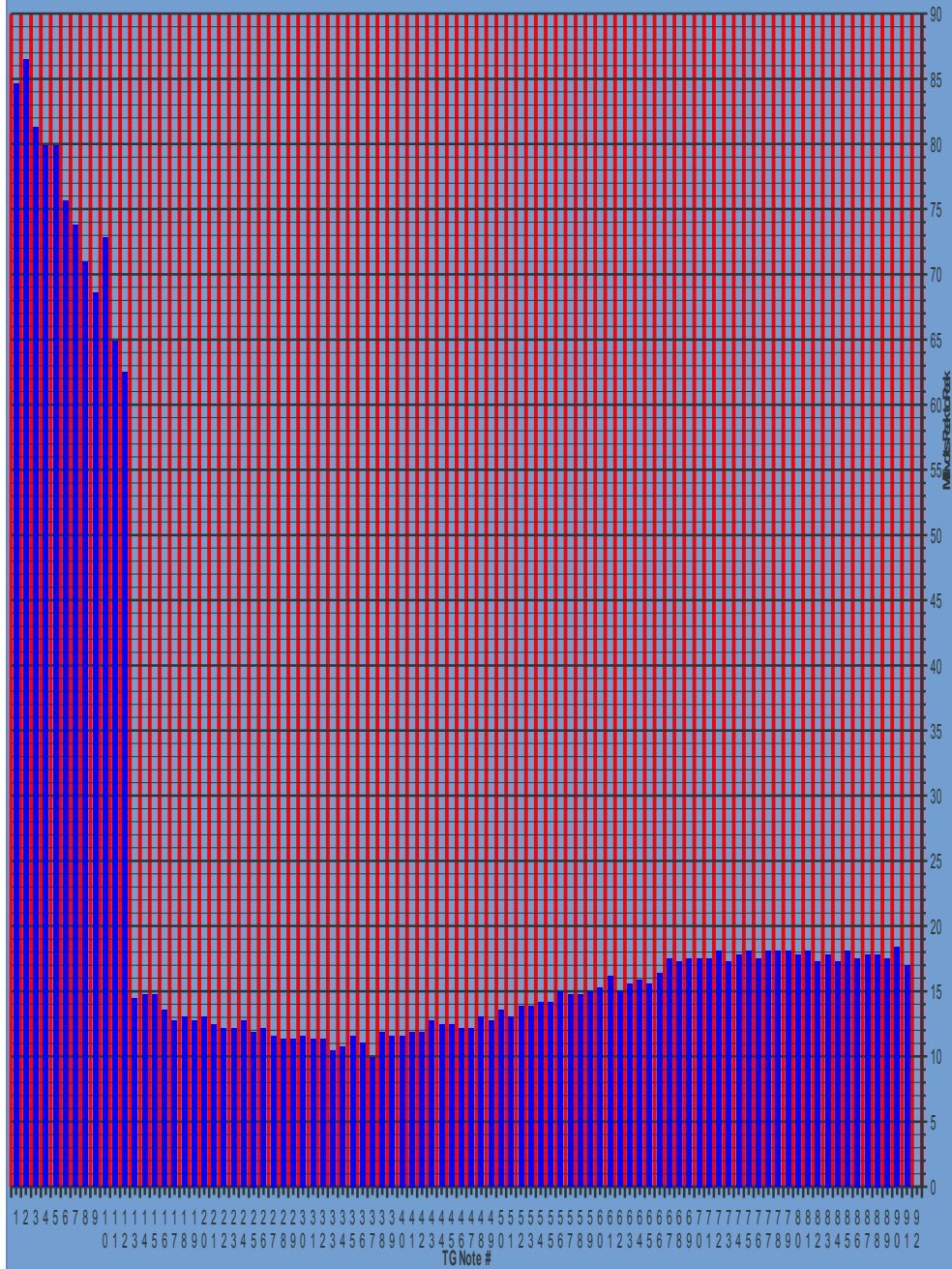
Mark's recapped and recalibrated 1956 C3. Recapped with 0.252 uf and 0.14 uf Orange Drop capacitors and recalibrated by Mark. Measured with Fluke 87 DVOM. mVRMS levels converted to mVpp by Kon. "My C3 sounds one hundred times better than what it was"



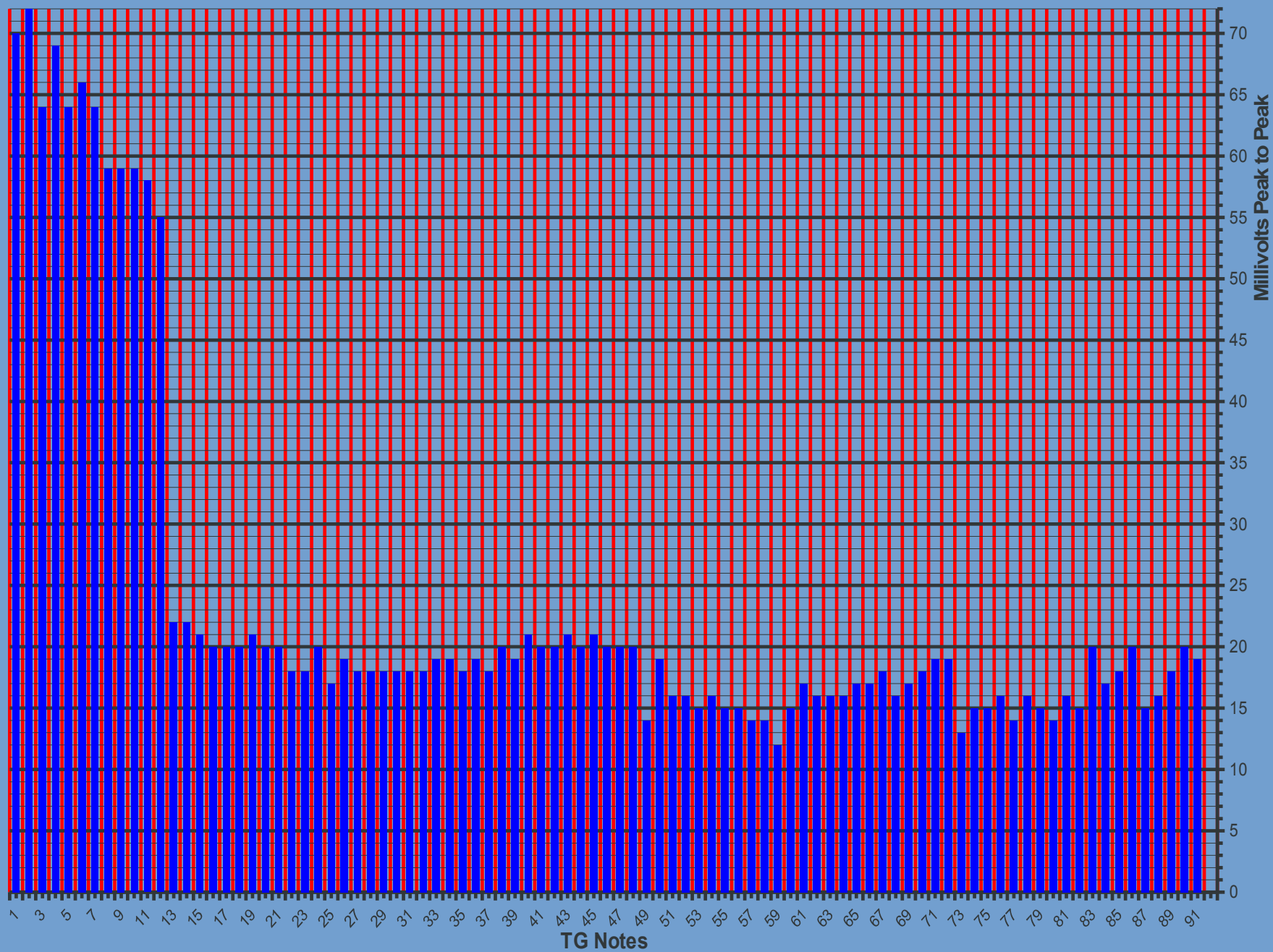
Ozzie's (Sandstorm Entertainment Inc) recapped 1957 C3 with Orange Drop Vishay capacitors. S/n 67591. Recapped and measured by David Vanasek. "The C3 sounds great, it sounds pretty much the same but with a lot less mechanical noise"



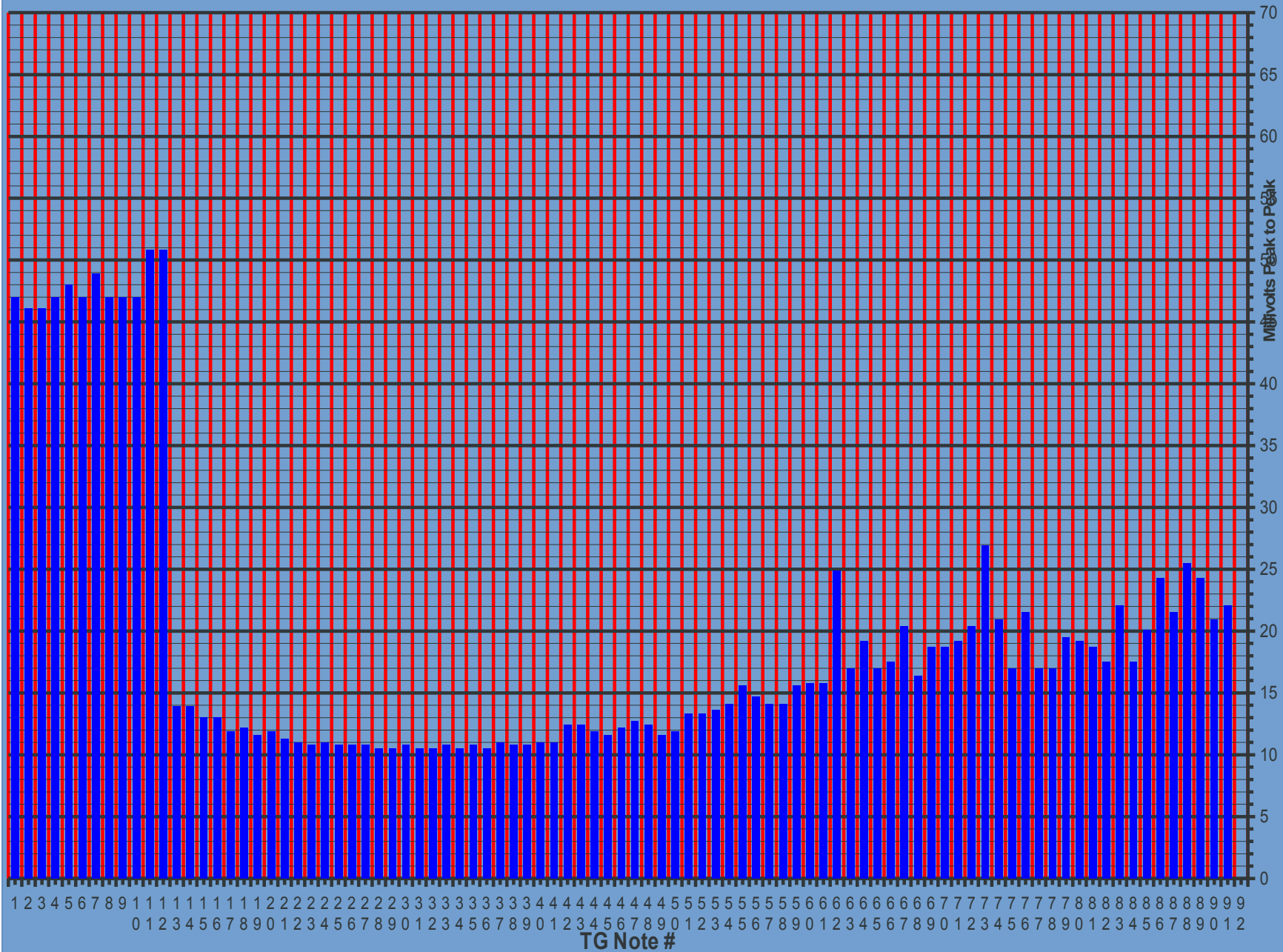
Ozzie's recapped and recalibrated 1957 C3. S/n 67591. Recalibrated by David Vanasek with a Fluke 87V True RMS meter. "The sound is much more balanced, it's easier to hear the higher harmonics, the C3 still maintains the mellowness but with added clarity."



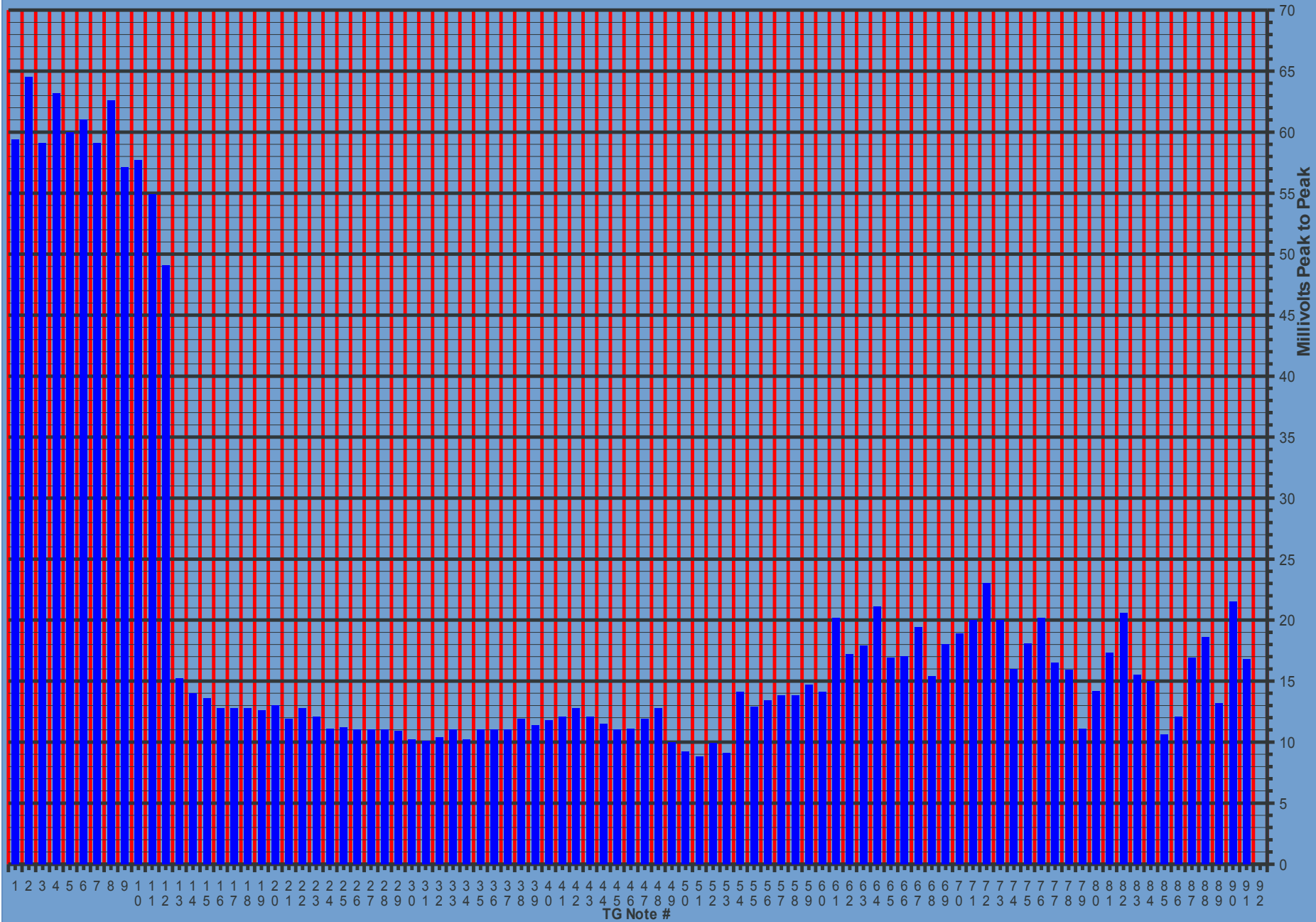
Dave's 1959 C3 With wax caps "Very nice sounding organ ". "Sounds similar to the organ used on Traffic's 1968 self titled album"



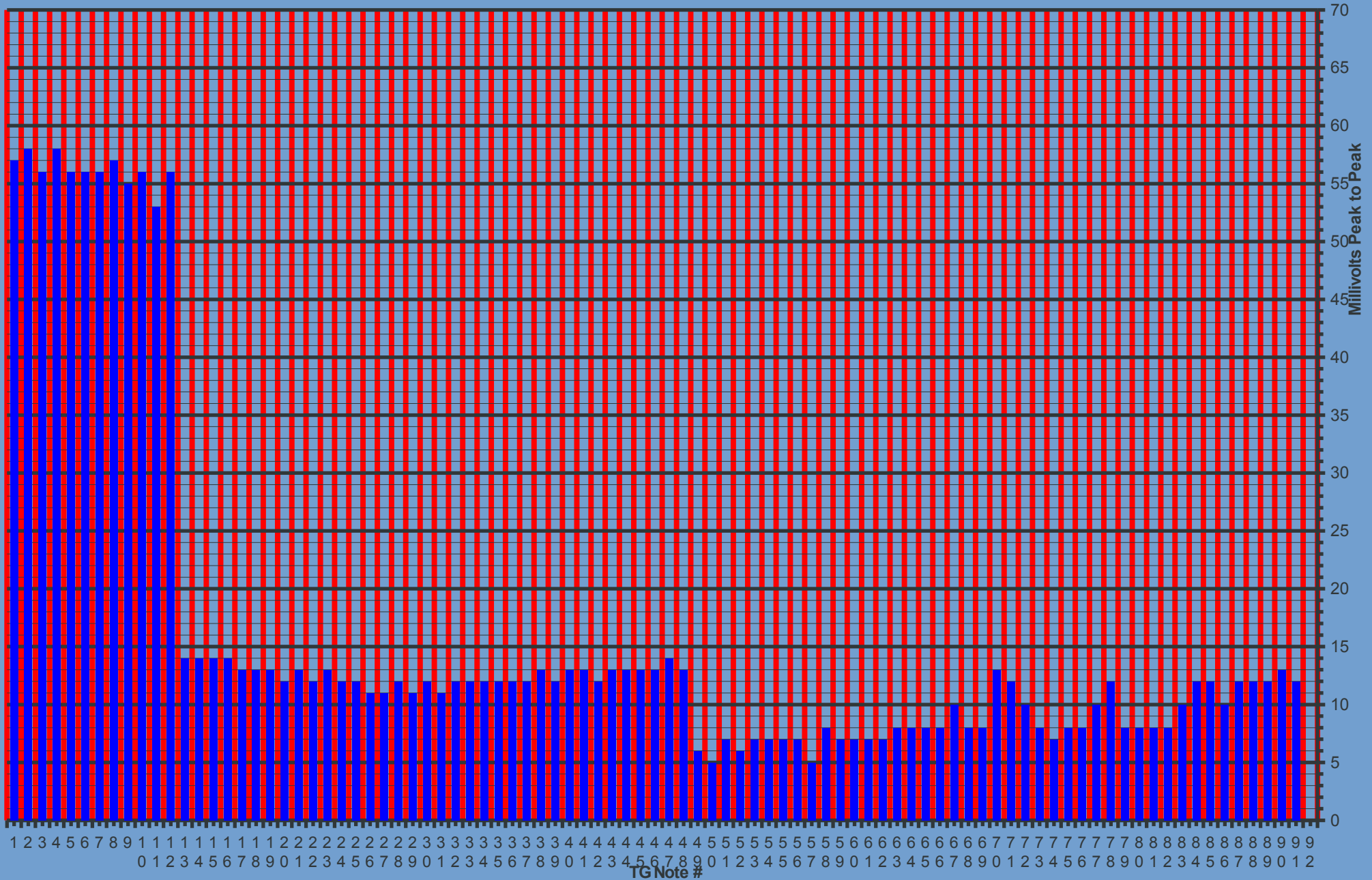
Mihevic wax capped 1959 C3 s/n 79421. TG readings from 1972 with Simpson analog RMS meter. mVRMS levels converted to mVpp by Kon.



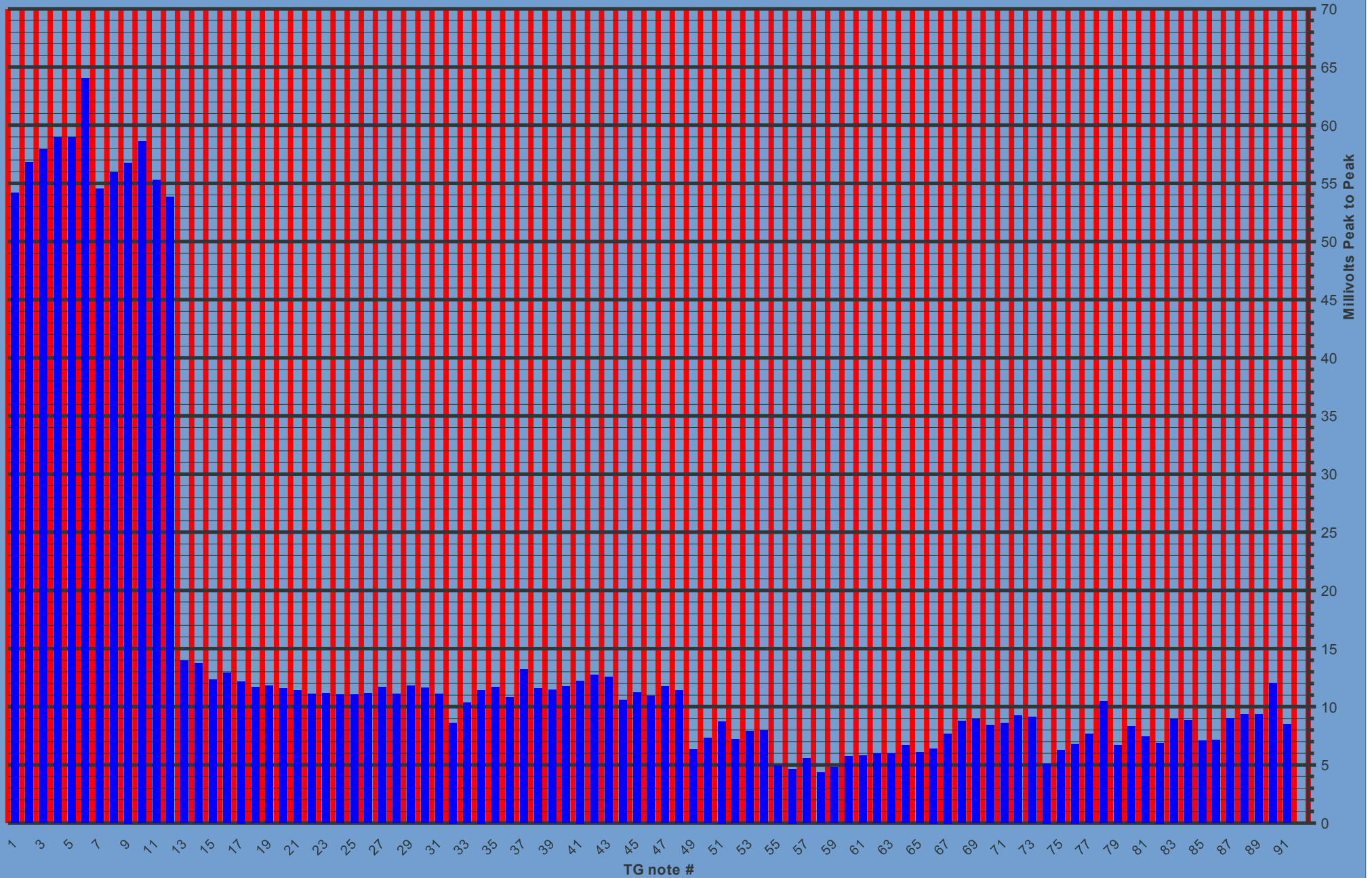
Ray's 1959 C3 s/n 80775. Graph 1 Recapped with .22 mf and .1 mf capacitors. Very nice "creamy" sound. Measured by Kon



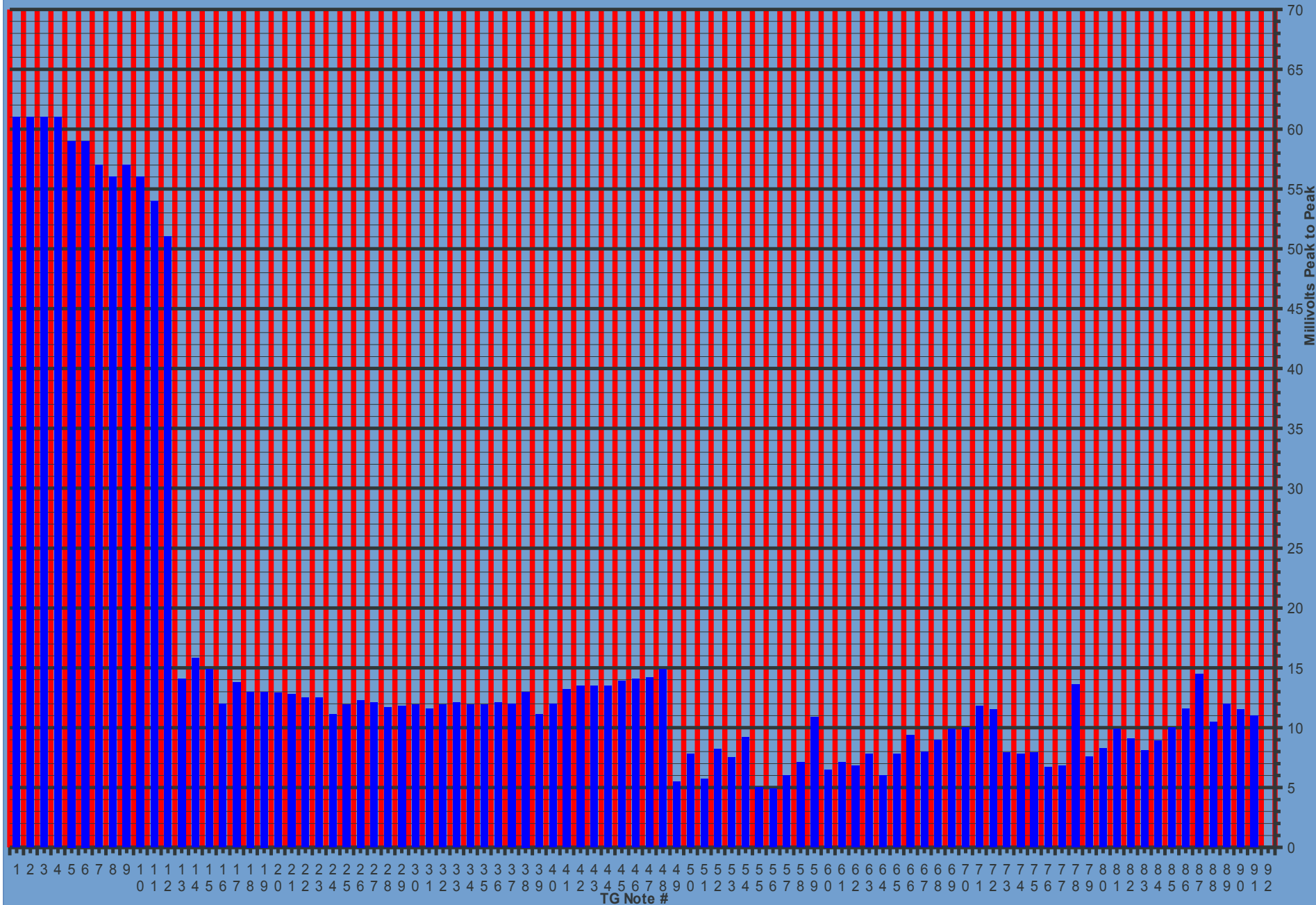
Fire damaged 1959 wax capped C3 repaired and measured by Geoff.



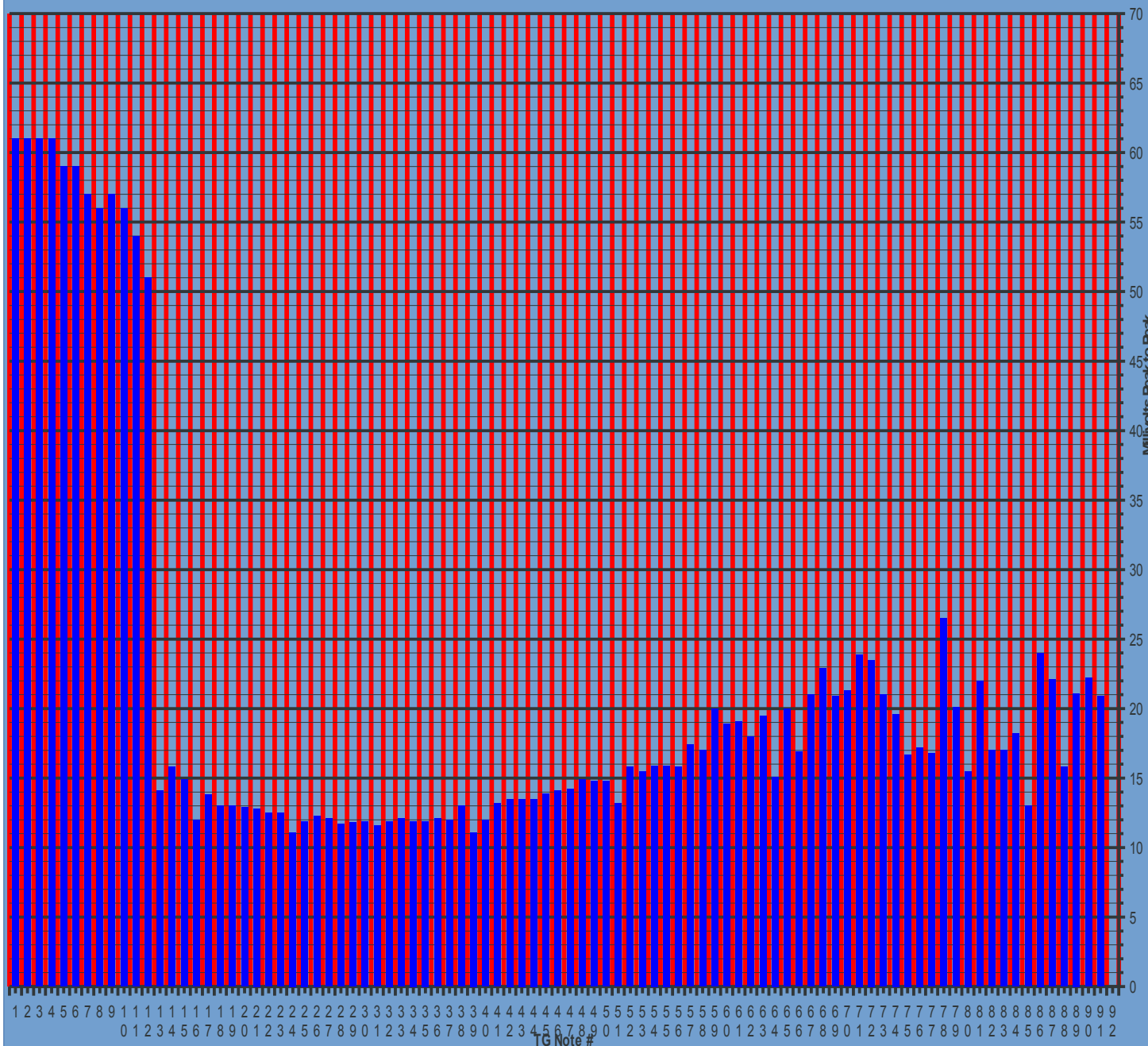
Brendon's wax capped 1959 C3. S/n 81101 mV RMS levels converted to mVpp by Kon.



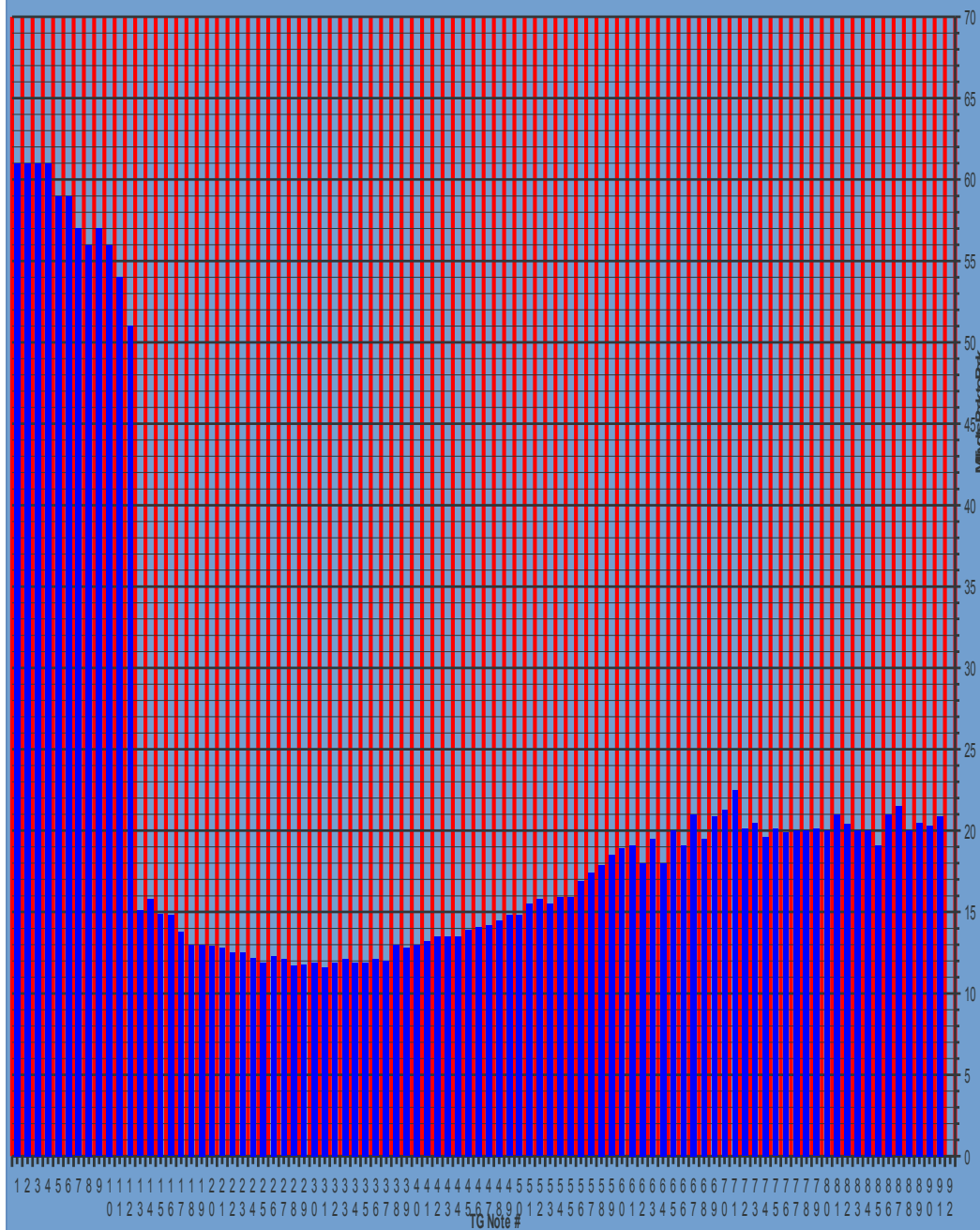
St Alban's Anglican Church wax capped 1959 C3. S/n 82314. TG measured by Kon on 10 February 2010. Mellowed aged sound.



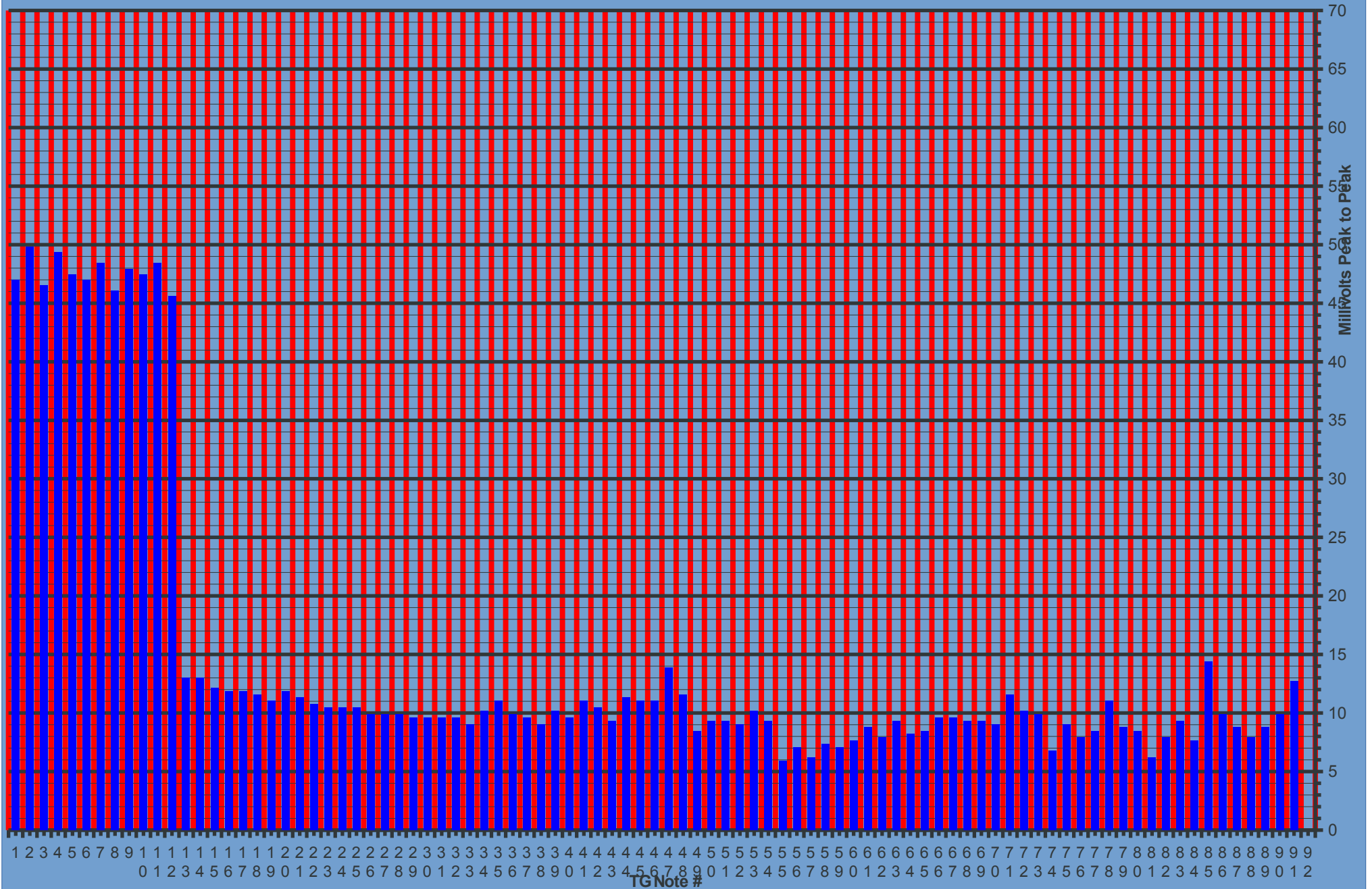
St Alban's Anglican Church recapped 1959 C3. S/n 82314. Recapped by Kon on 21 May 2010 with 0.253 uf and 0.1 uf greencap polyester capacitors. "Clear bright sound".



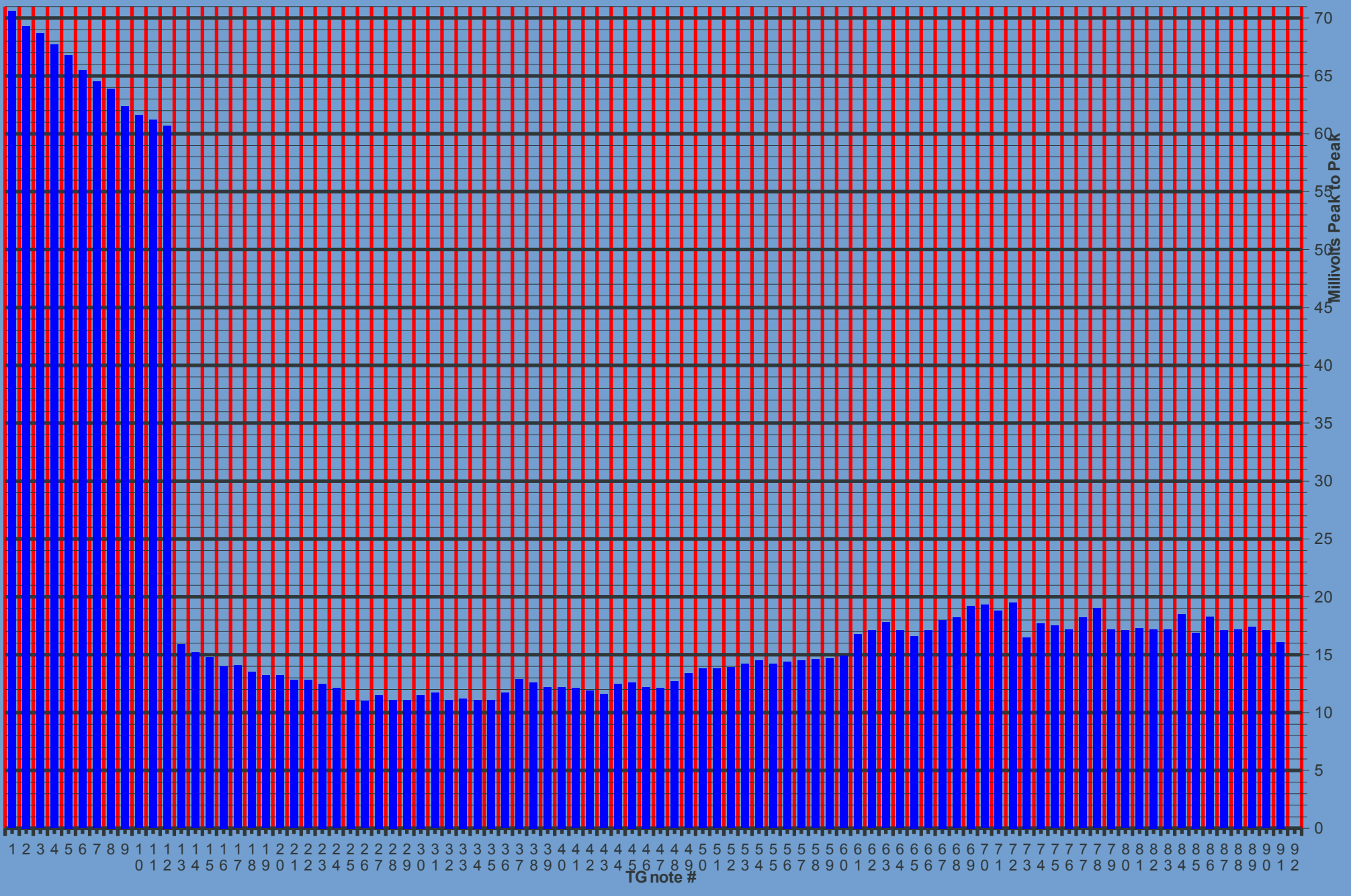
St Alban's Anglican Church recapped and recalibrated 1959 C3. S/n 82314. Recapped with 0.253 uf and 0.1 uf greencap polyester capacitors and then recalibrated for a smoother output curve by Kon on 21 May 2010. "Clear and bright sound".



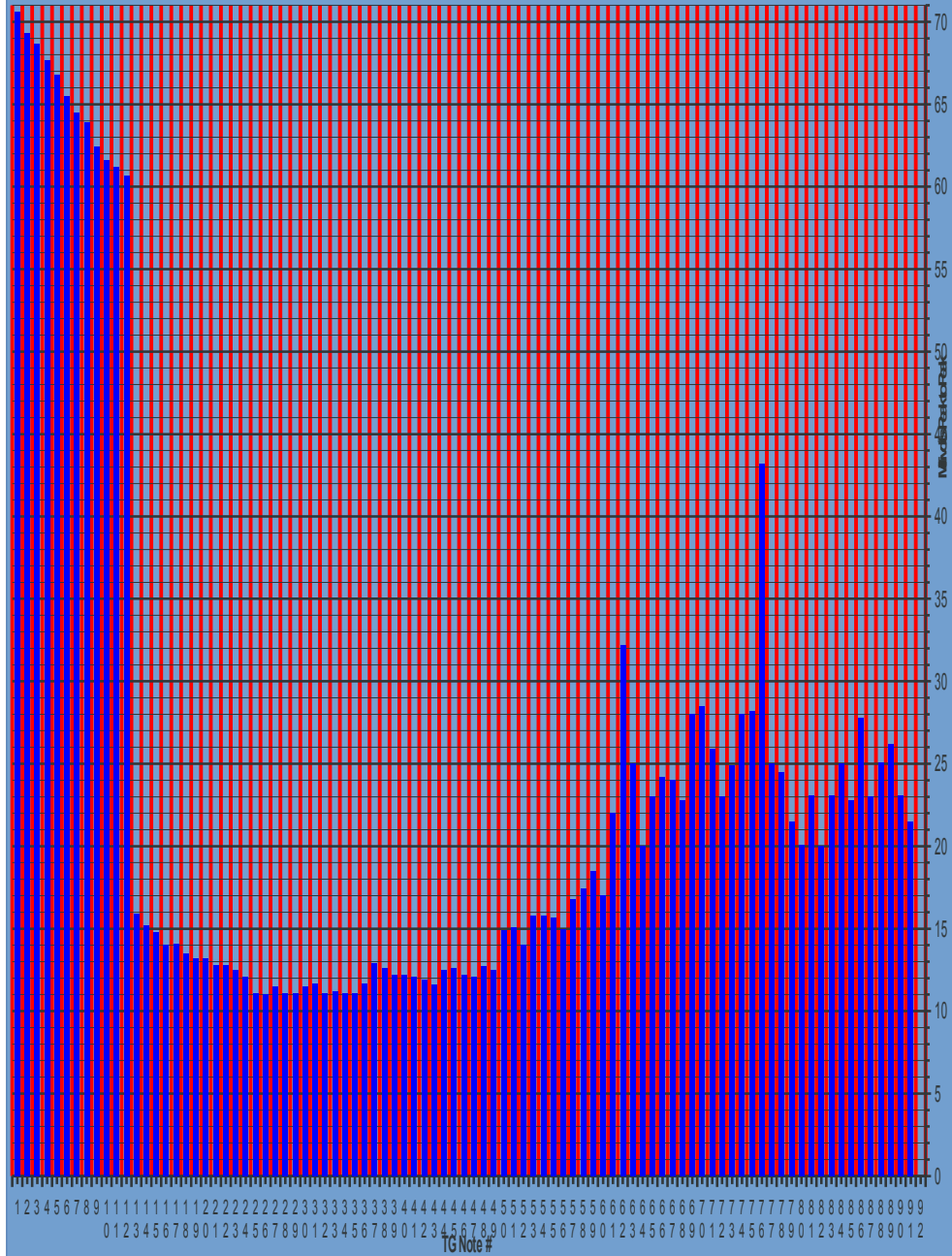
Martin's 1961 wax capped C3. mV RMS levels converted to mV PP by Kon.



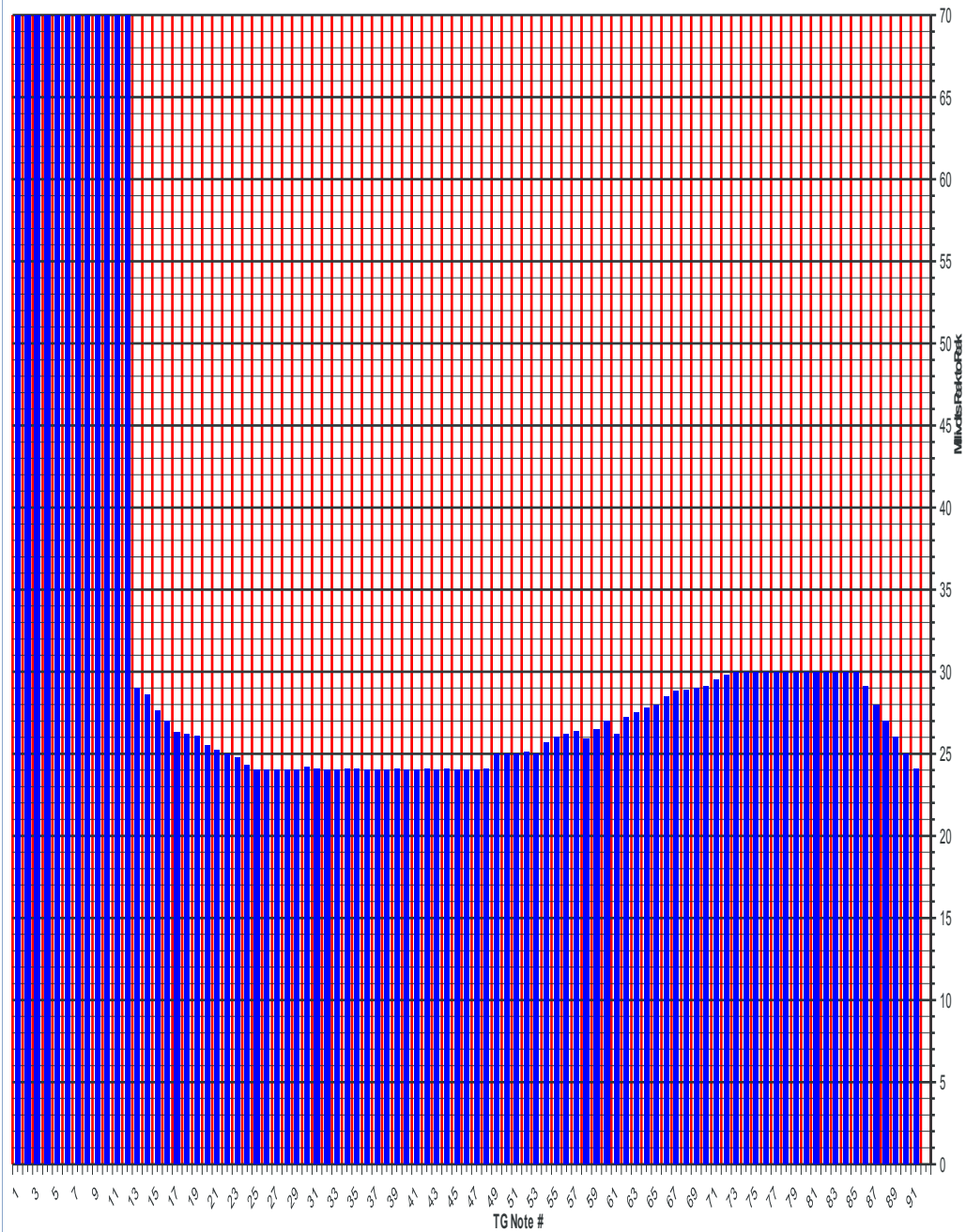
Kon's 1962 C3. S/n 89104 . Recapped with MKT polyester capacitors . November 2005 TG curve.



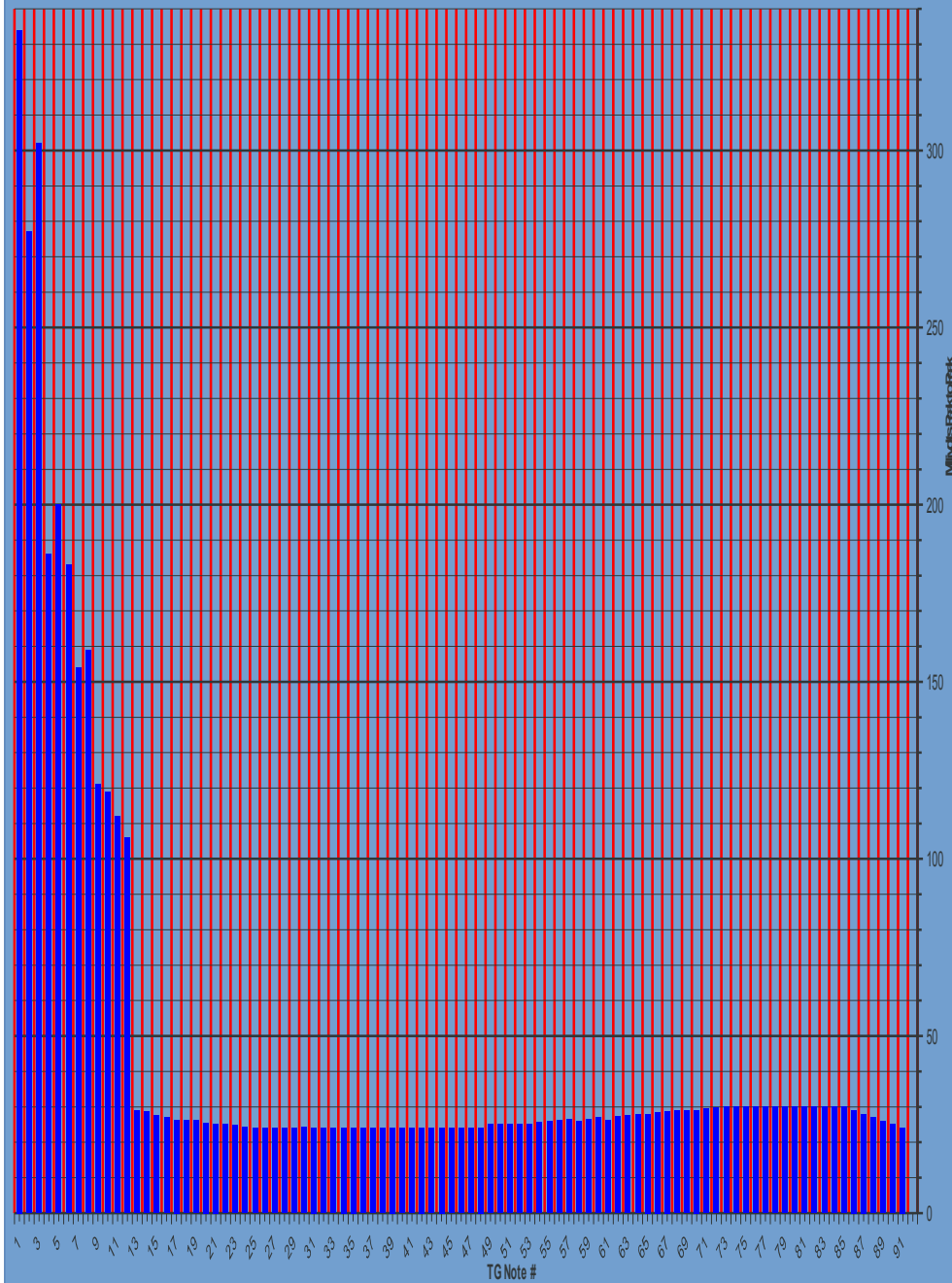
Kon's 1962 C3. S/n 89104. November 2005 TG curve measured after the original capacitor tray with the new MKT caps was removed and swapped with the red mylar caps tray from Steve's 1970 ? T-300. Bright sound. Sounds nice with bass boost EQ added.



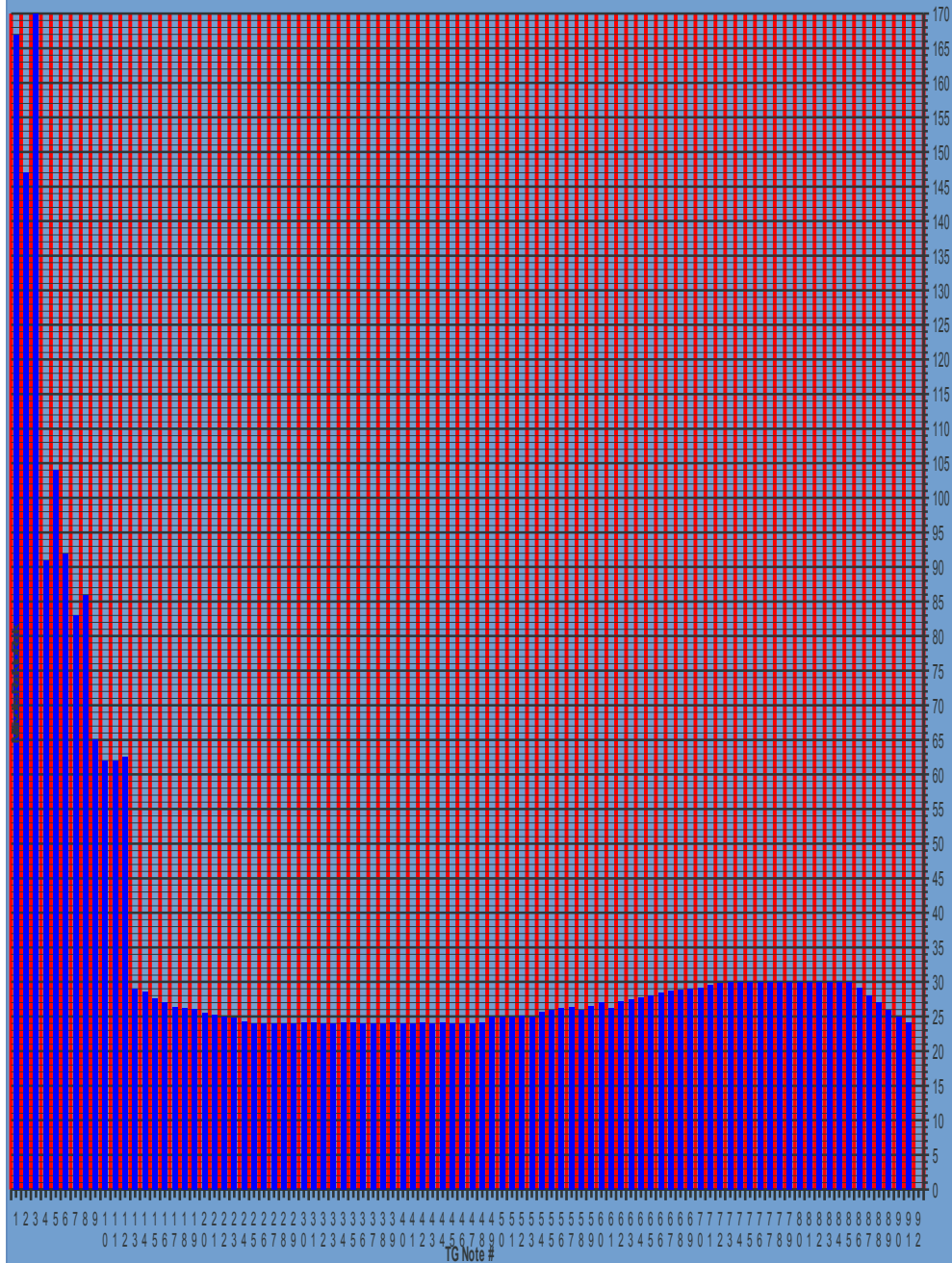
Kon's 1962 C3. S/n 89104. With the red mylar caps tray of Steve's 1970 T-300. April 2007 TG curve. Higher TG output levels for better signal to noise ratio. Very loud but still clean sinewaves. Fatter than stock sound, more like the pre 1956 organs.



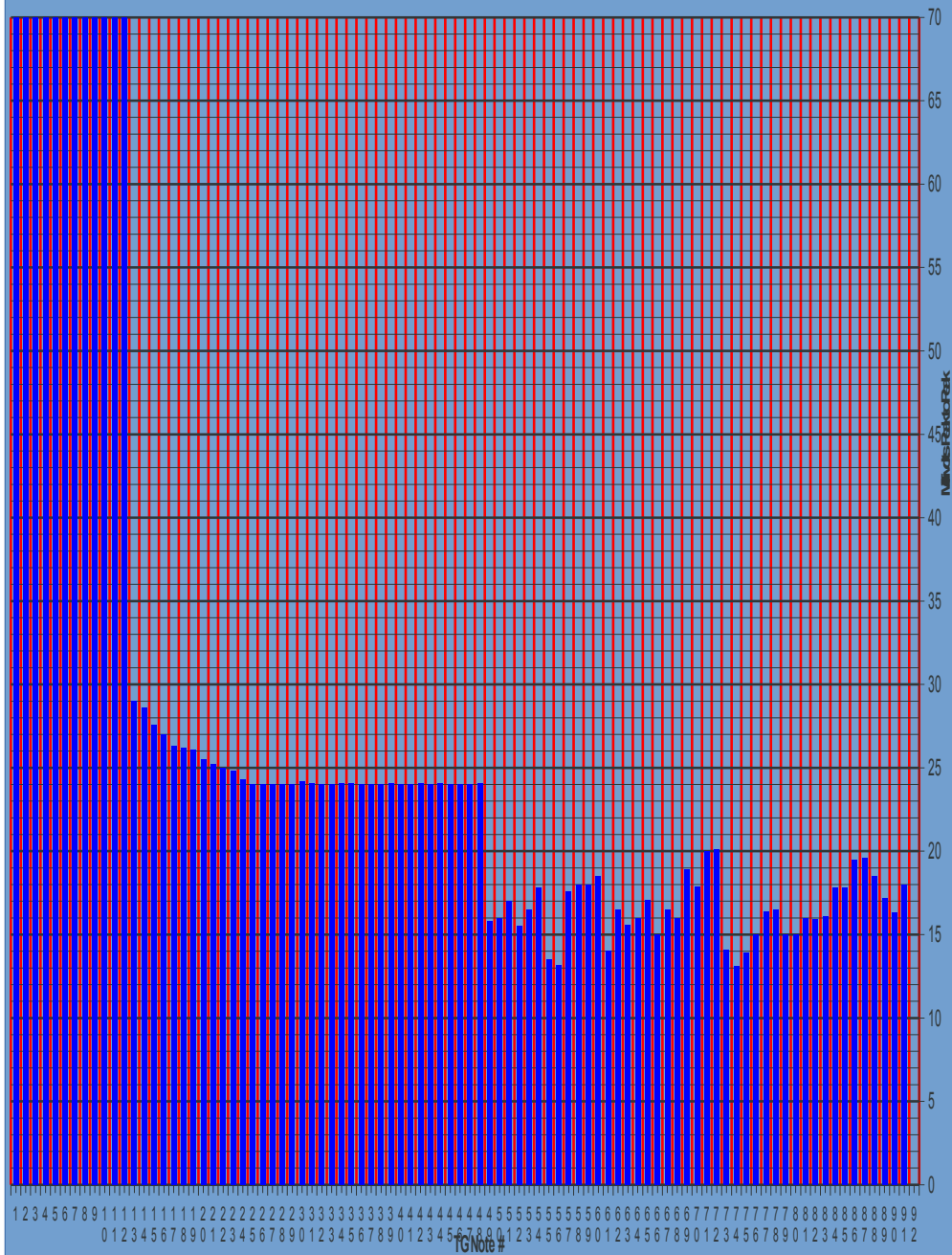
Kon's 1962 C3. 16 ohms grounding resistance wires cut off and 100 uf grounding capacitors added to the TG notes 1-12 to produce fat bass waveforms. Recalibrated through the GG outputs to produce similar volume levels as the pedal board keys 13 to 25.



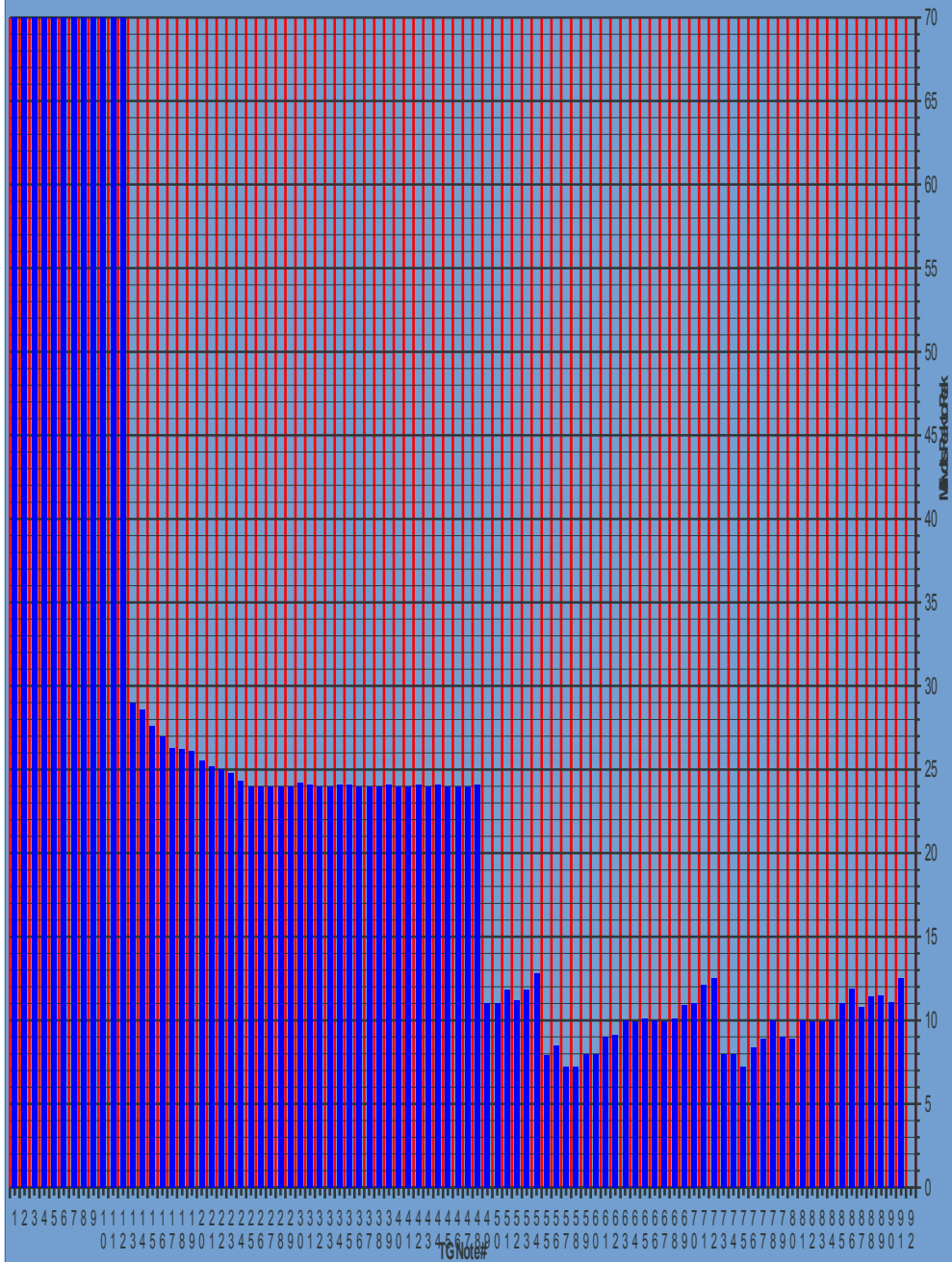
Kon's 1962 C3. April 2007. 100 uf grounding caps removed and 16 ohms grounding resistors added to restore the stock complex waveform TG notes 1 to 12. TG notes 1 to 3 are stronger due to the resistance wire ohms values of the bass pedal keys 1 to 3.



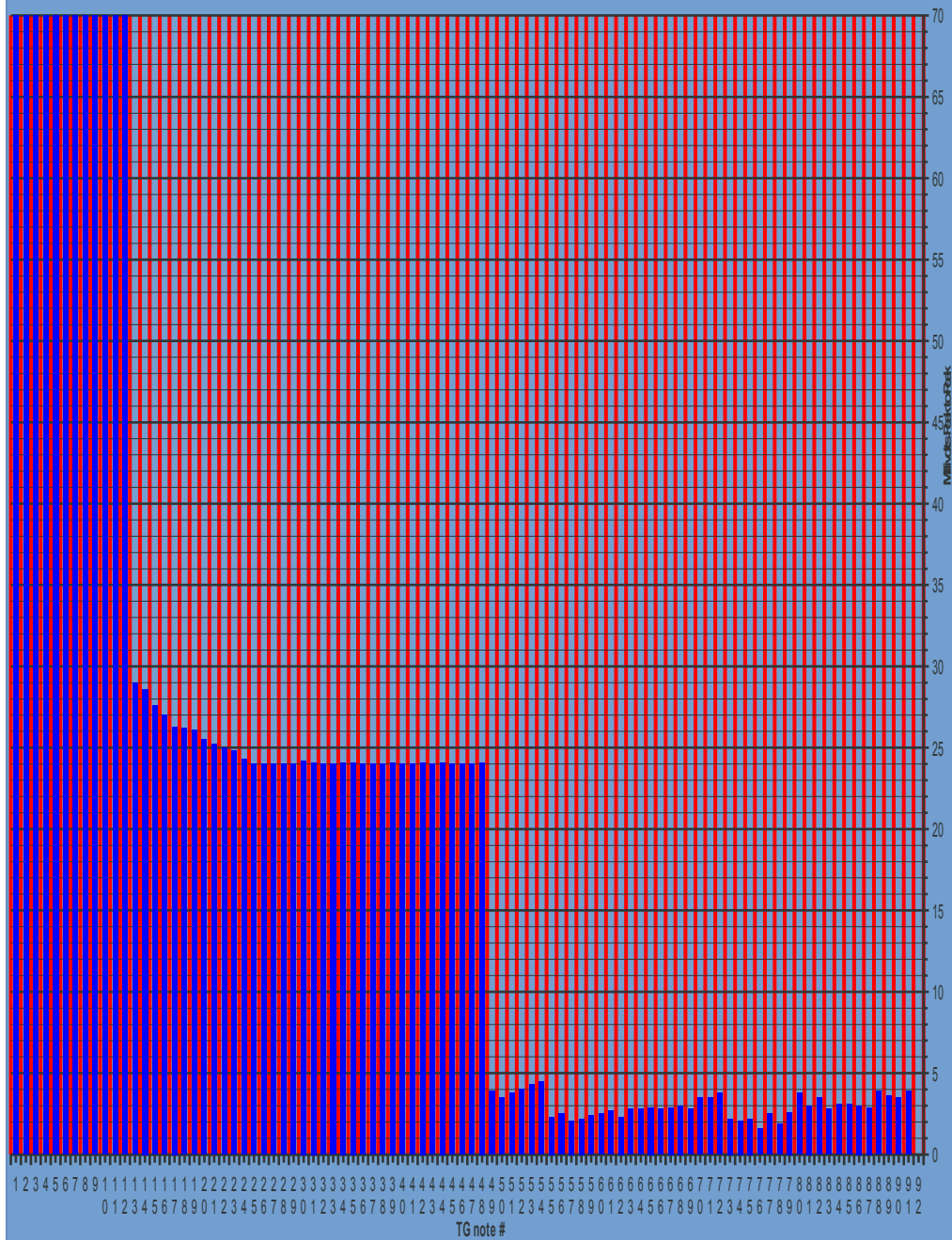
Kon's 1962 C3 with the red mylar caps tray of Steve's 1970 ? T-300. April 2007 TG curve. TG notes 49-91 with additional capacitors added in parallel with the red mylar capacitors for a 20 % increase in mfd value for a moderately aged wax caps sound.



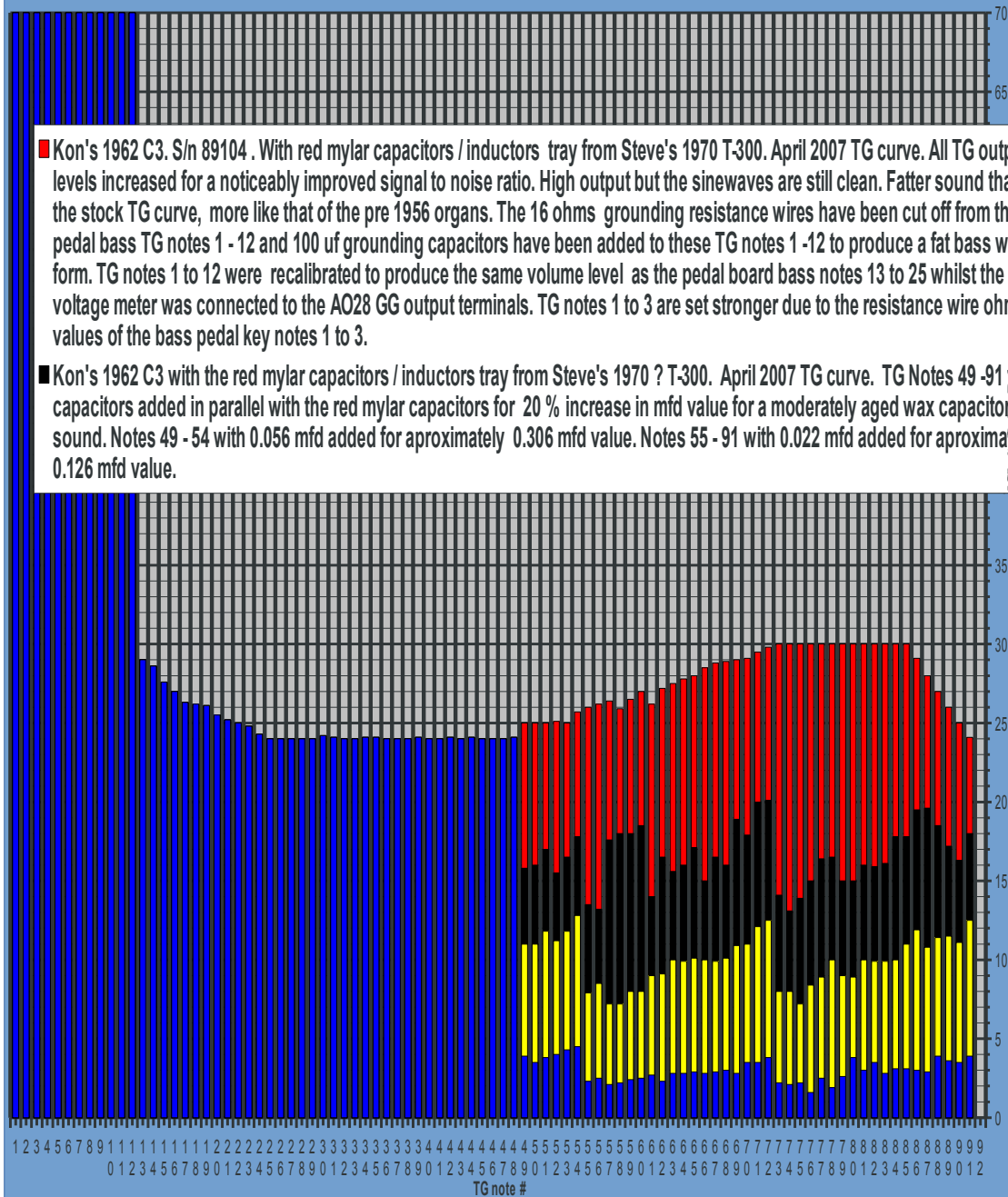
Kon's 1962 C3 with the red mylar caps tray of Steve's 1970? T-300. April 2007 TG curve. TG notes 49-91 with additional capacitors added in parallel with the red mylar capacitors for a 50 % increase in mfd value for a 50 + years aged wax caps sound.



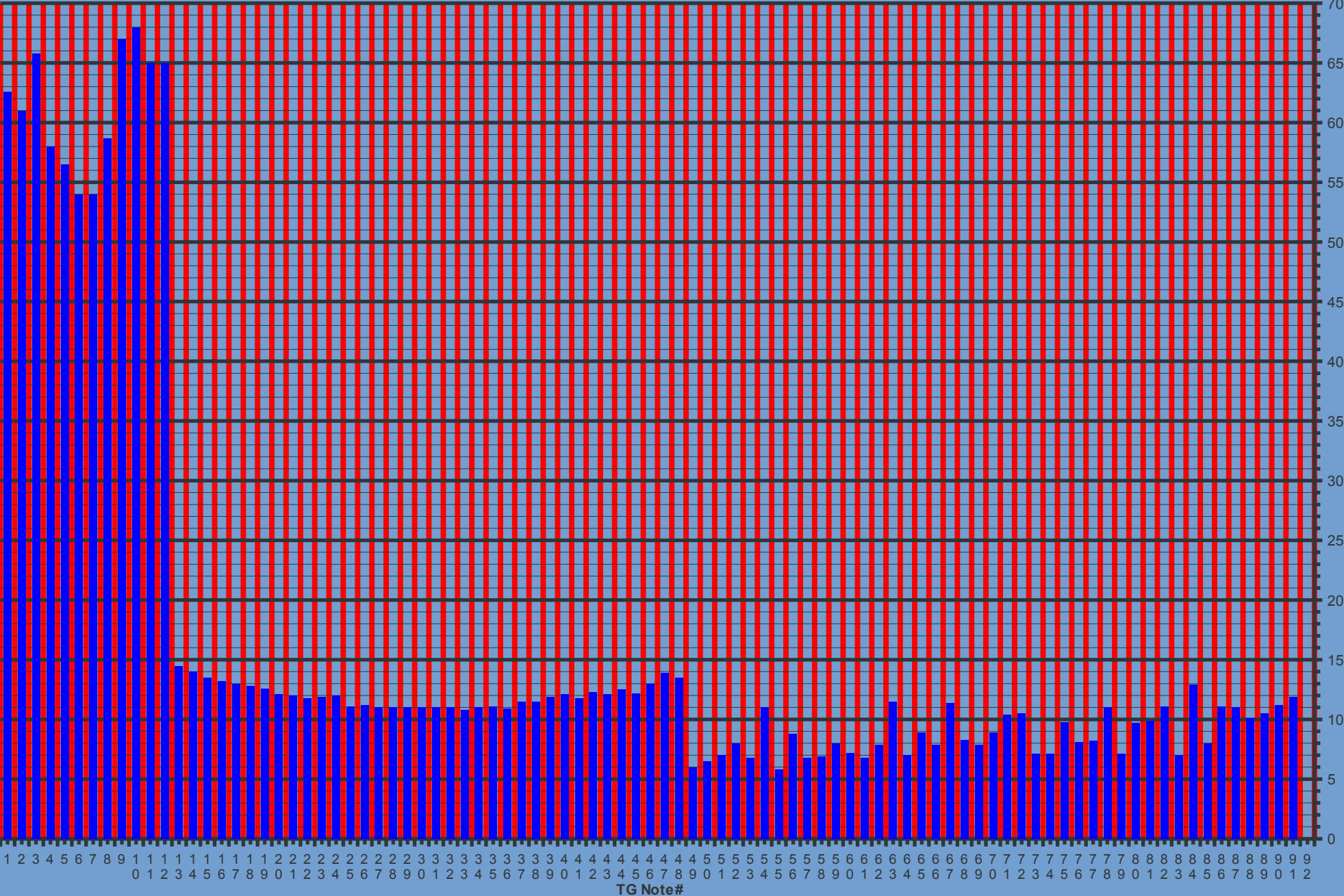
Kon's 1962 C3 with the red mylar caps tray from Steve's 1970 ? T-300. TG Notes 49 -91 with 680 nf capacitors added in parallel with the existing correct value capacitors to simulate severely drifted up aged 1950's wax paper capacitors. 5 October 2017.



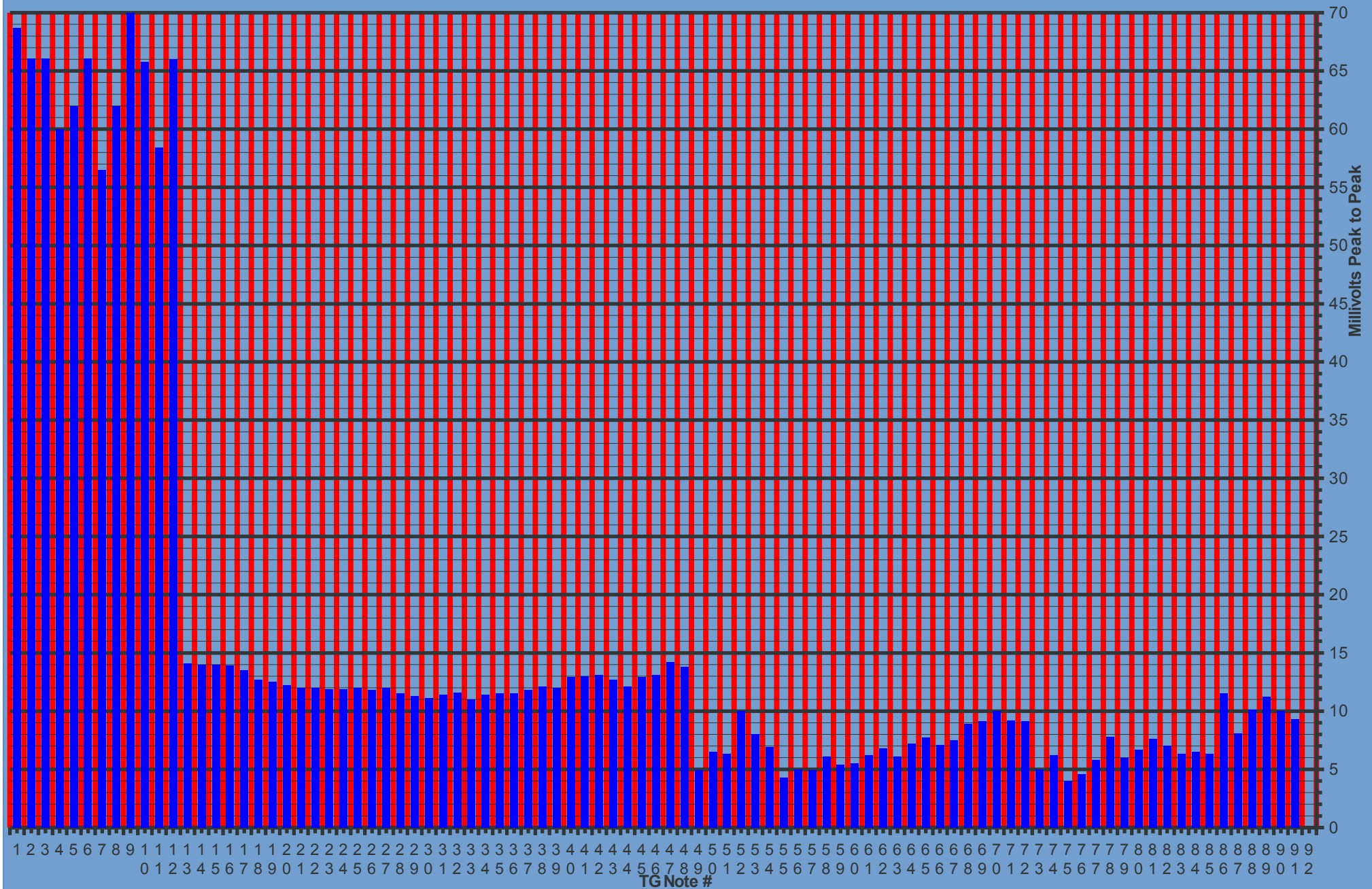
- Kon's 1962 C3. S/n 89104 . With red mylar capacitors / inductors tray from Steve's 1970 T-300. April 2007 TG curve. All TG output levels increased for a noticeably improved signal to noise ratio. High output but the sinewaves are still clean. Fatter sound than the stock TG curve, more like that of the pre 1956 organs. The 16 ohms grounding resistance wires have been cut off from the pedal bass TG notes 1 - 12 and 100 uf grounding capacitors have been added to these TG notes 1 -12 to produce a fat bass waveform. TG notes 1 to 12 were recalibrated to produce the same volume level as the pedal board bass notes 13 to 25 whilst the voltage meter was connected to the AO28 GG output terminals. TG notes 1 to 3 are set stronger due to the resistance wire ohms values of the bass pedal key notes 1 to 3.
- Kon's 1962 C3 with the red mylar capacitors / inductors tray from Steve's 1970 ? T-300. April 2007 TG curve. TG Notes 49 -91 with capacitors added in parallel with the red mylar capacitors for 20 % increase in mfd value for a moderately aged wax capacitor sound. Notes 49 - 54 with 0.056 mfd added for aproximately 0.306 mfd value. Notes 55 - 91 with 0.022 mfd added for aproximately 0.126 mfd value.



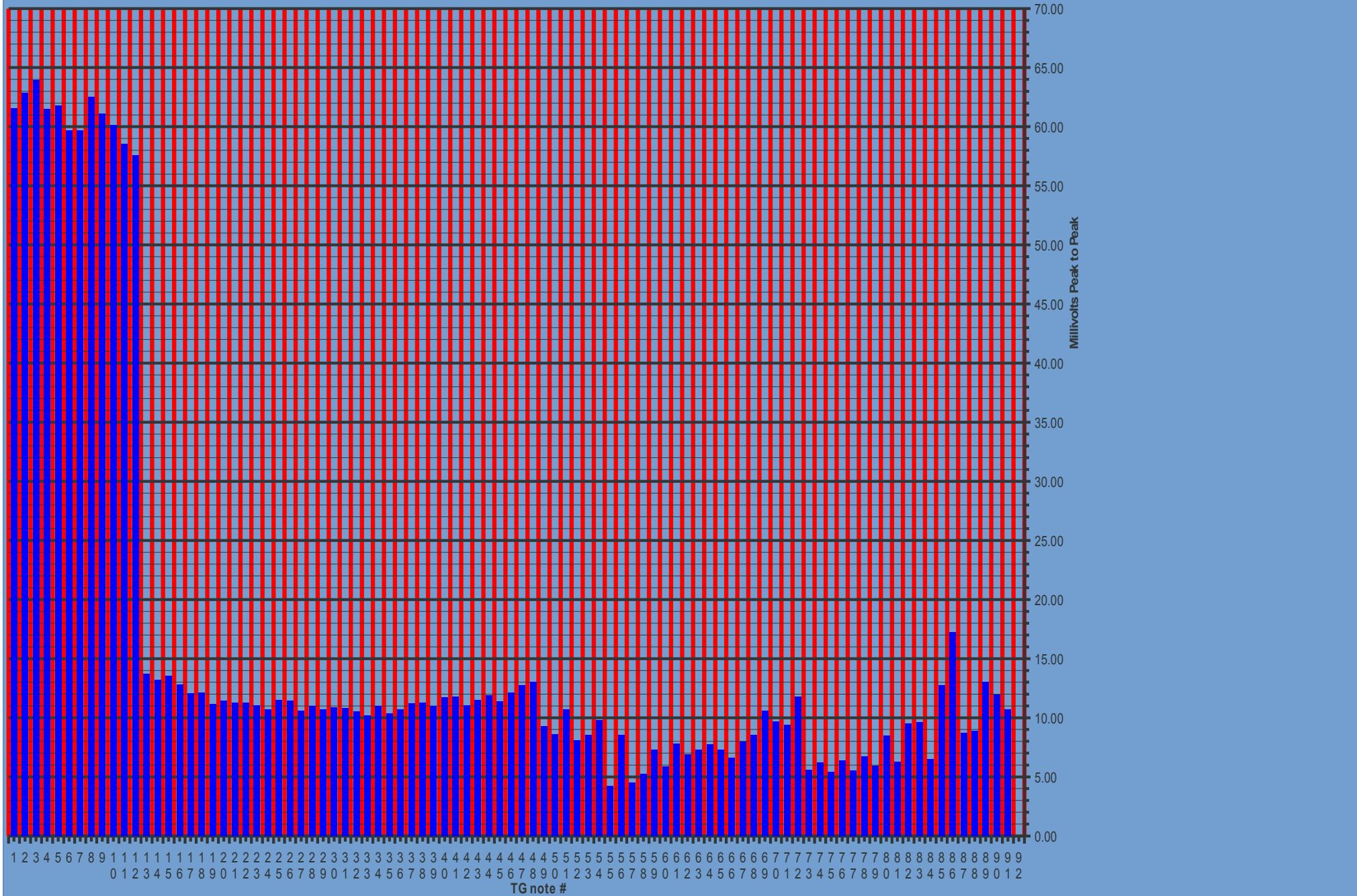
Ray's wax capped 1962 C3 S/n 89130 Measured by Kon, 23 Jan 2009.



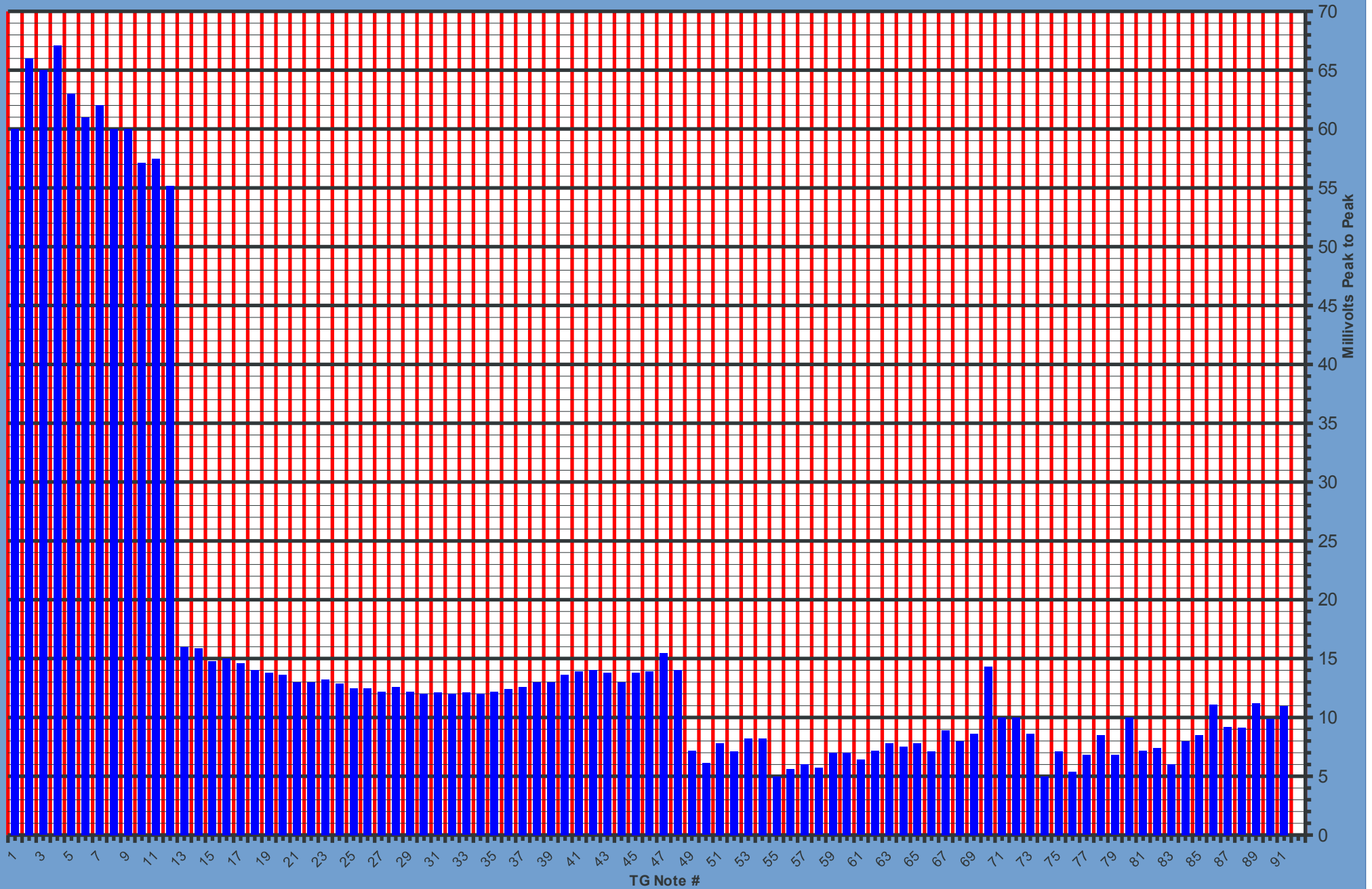
Simon's 1963 C3 with wax capacitors. S/n 91787. Nice warm sound. Measured by Kon.



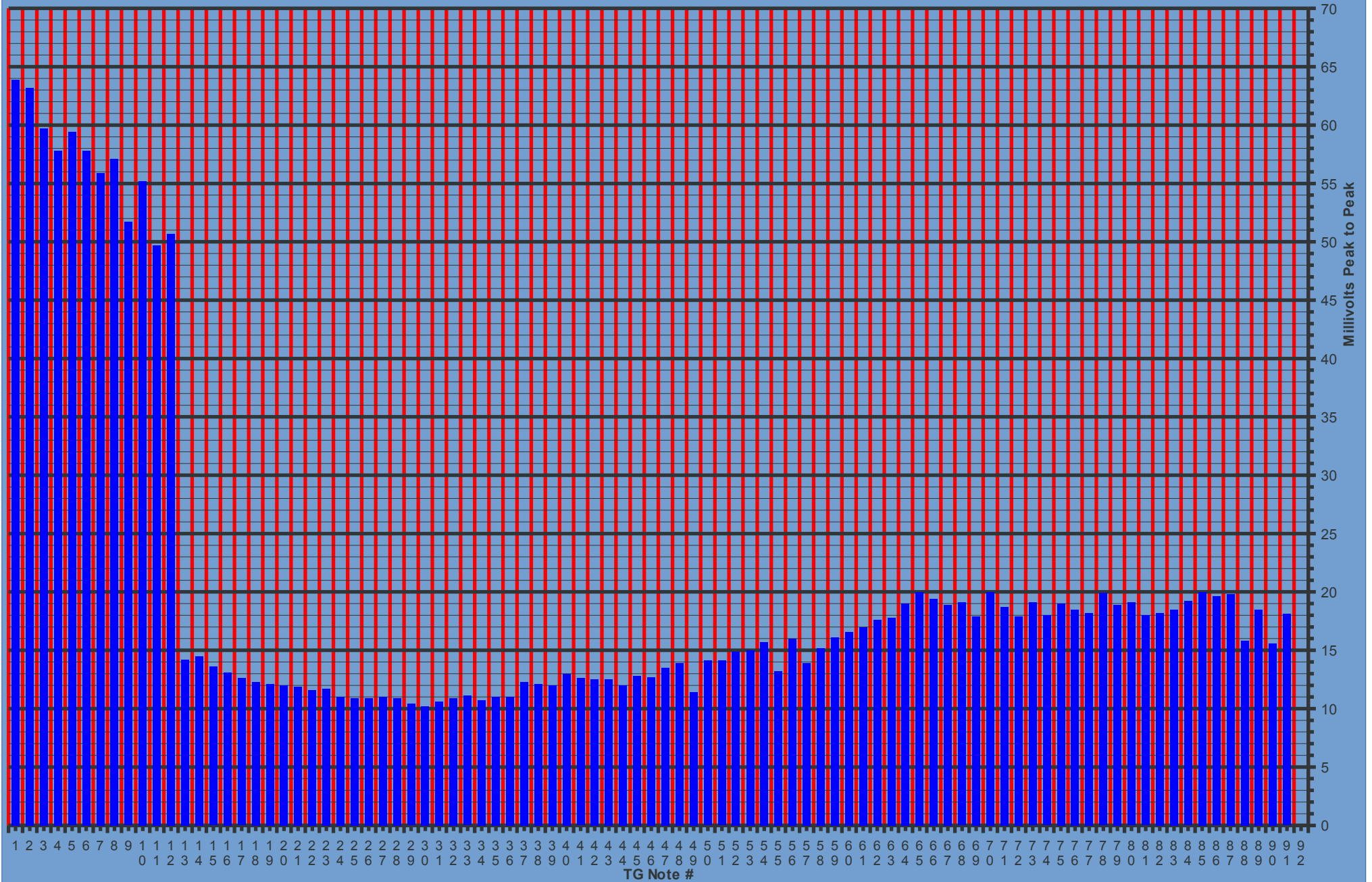
C Orth's wax capped 1964 C3 S/n 93029 Measured by Peter Becker with Fluke 187 meter on 7 January 2017. mV RMS levels converted to mVpp by Kon.



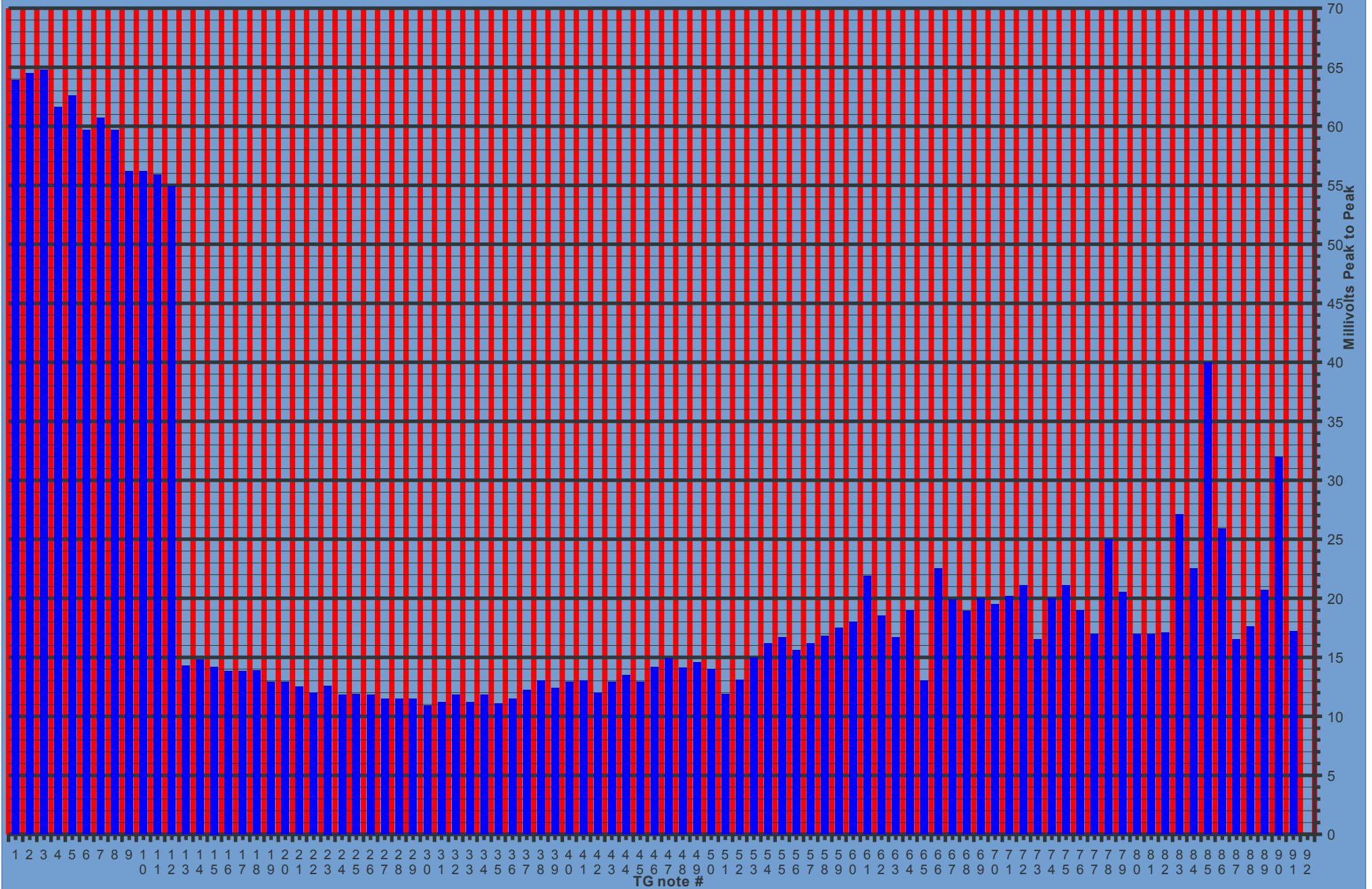
Bernie's Musicland 1964 C3 S/n 93198 With wax capacitors. Warm mellow sound. Measured by Kon.



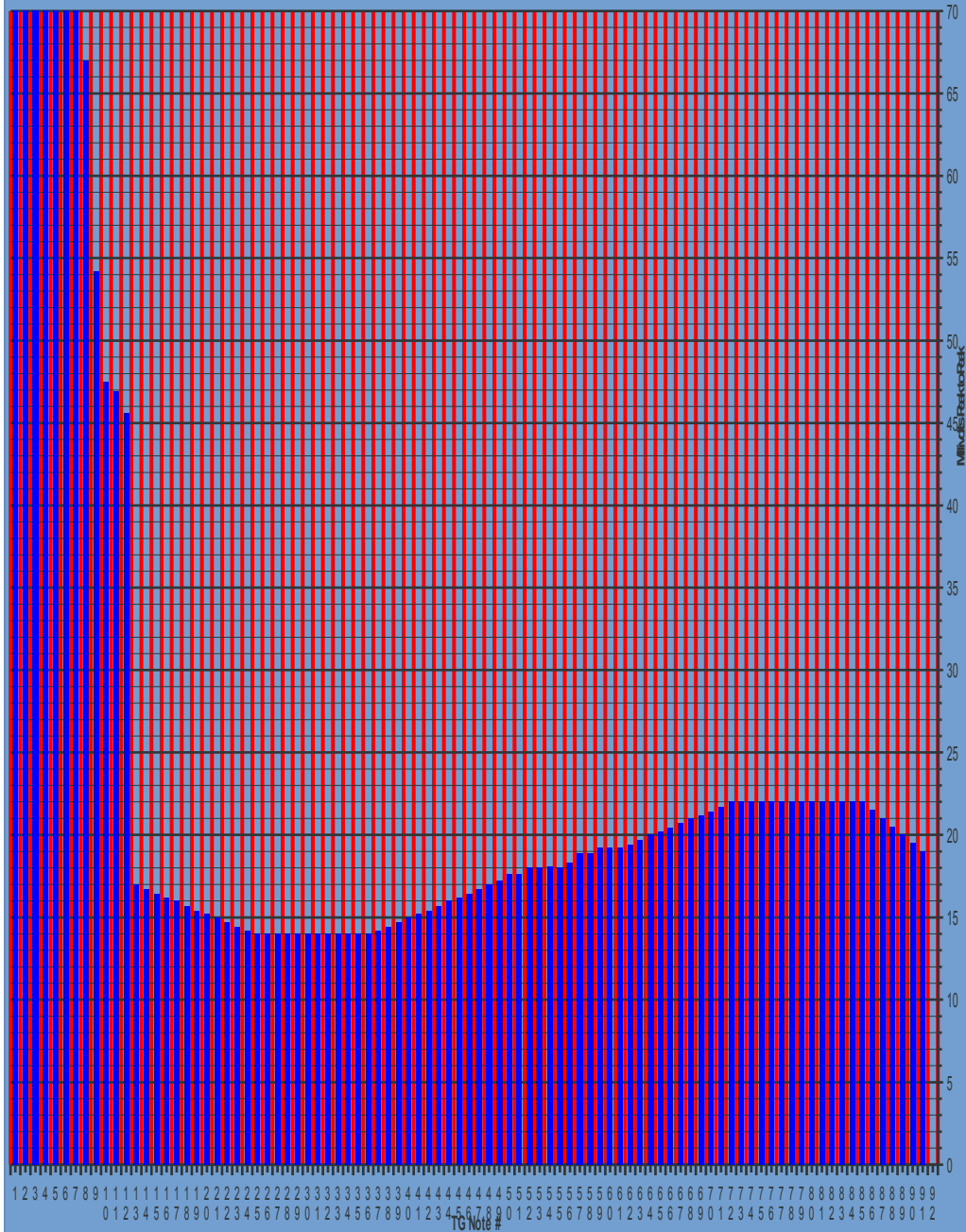
Nigel's red mylar capped 1965 C3. S/n 95228. Nice sound. Measured by Kon.



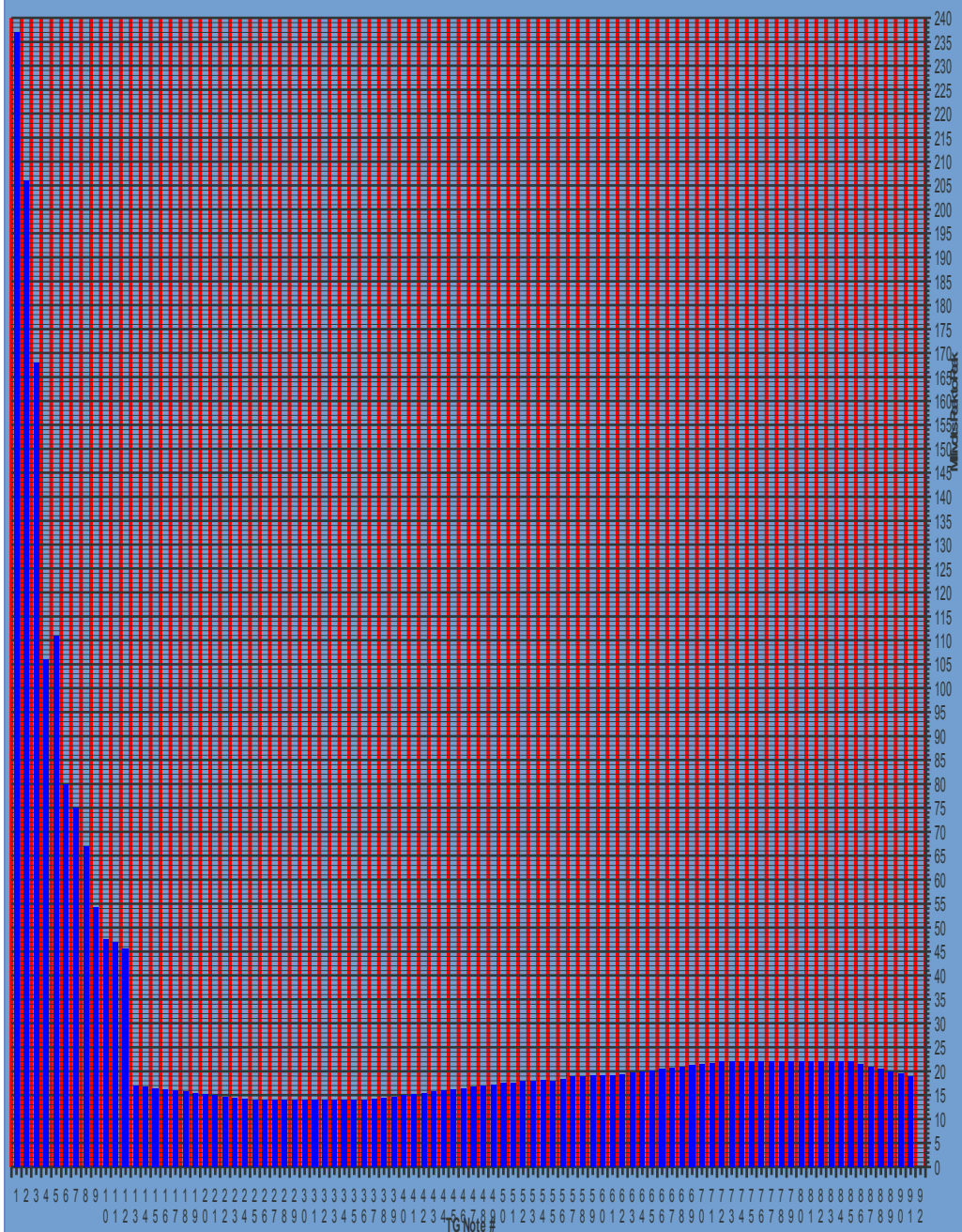
Kon's red mylar capped 1965 C3 S/n 95237. Original TG curve. Bright sound.



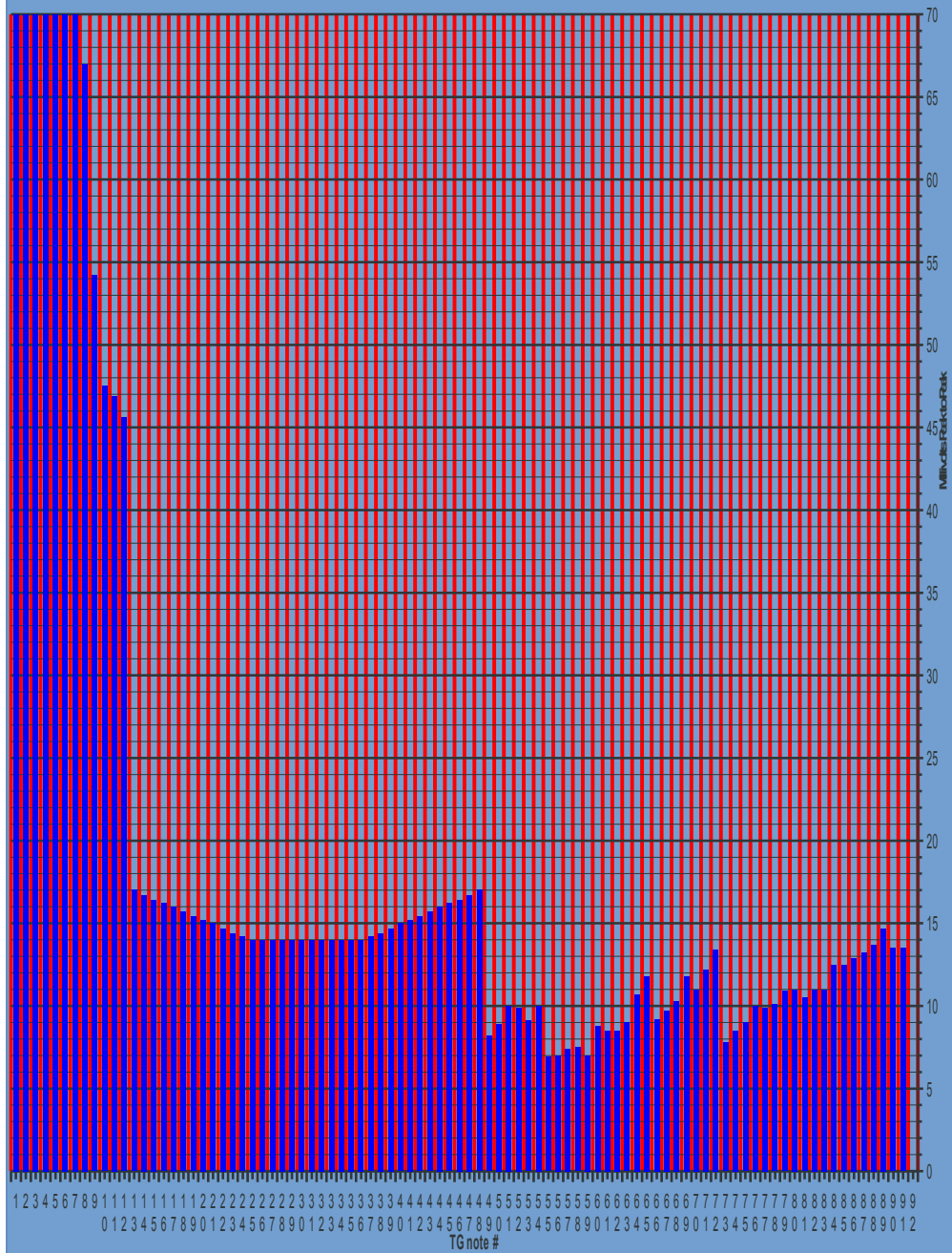
Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. Bass pedal TG notes 1 to 12 refiltered to be more sine wave-like and recalibrated through the AO28 GG outputs to produce similar levels as the pedal notes 13 to 24.



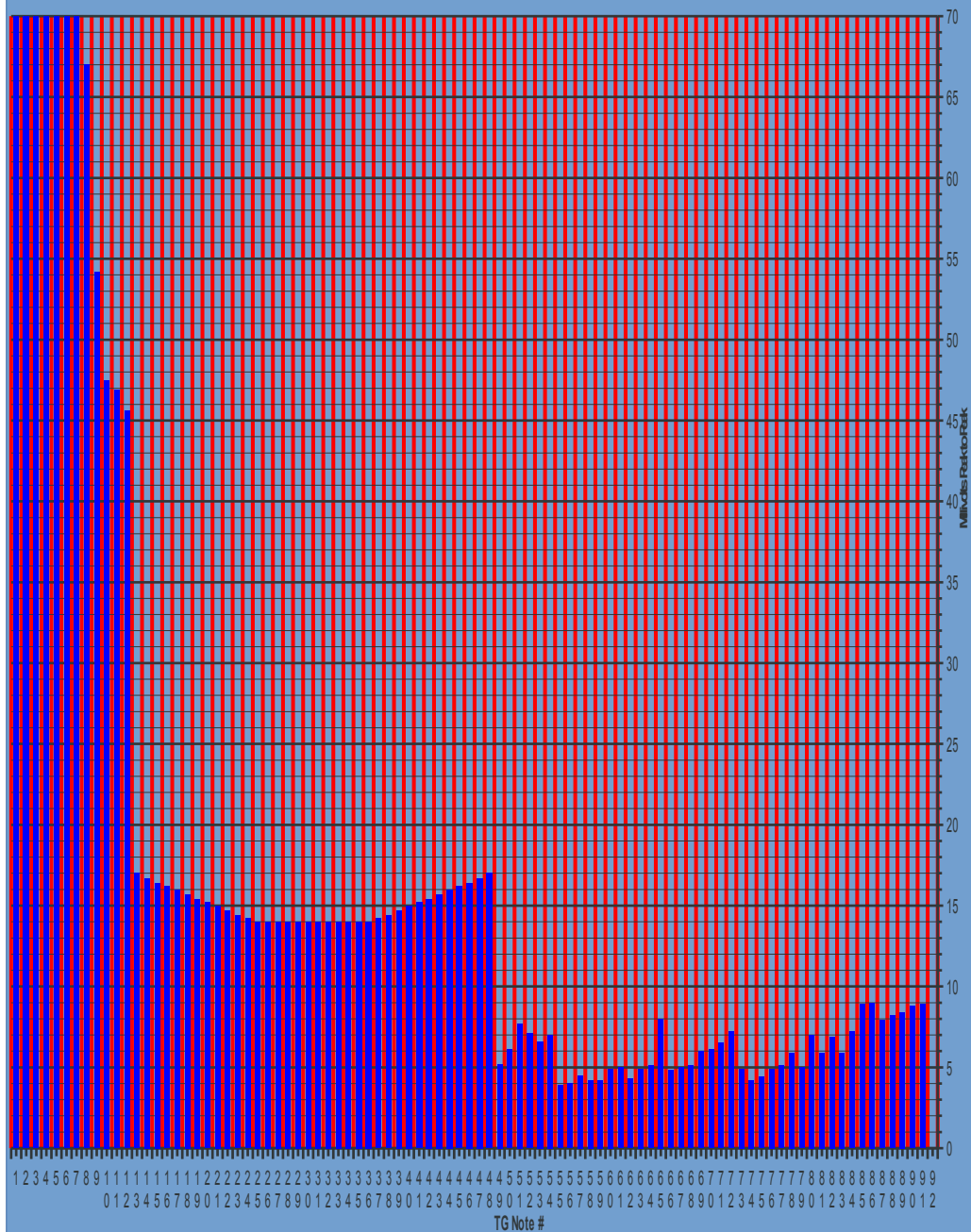
Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. Bass pedal TG notes 1 to 12 refiltered to be more sine wave-like and recalibrated through the AO28 GG outputs to produce similar levels as the pedal notes 13 to 24.



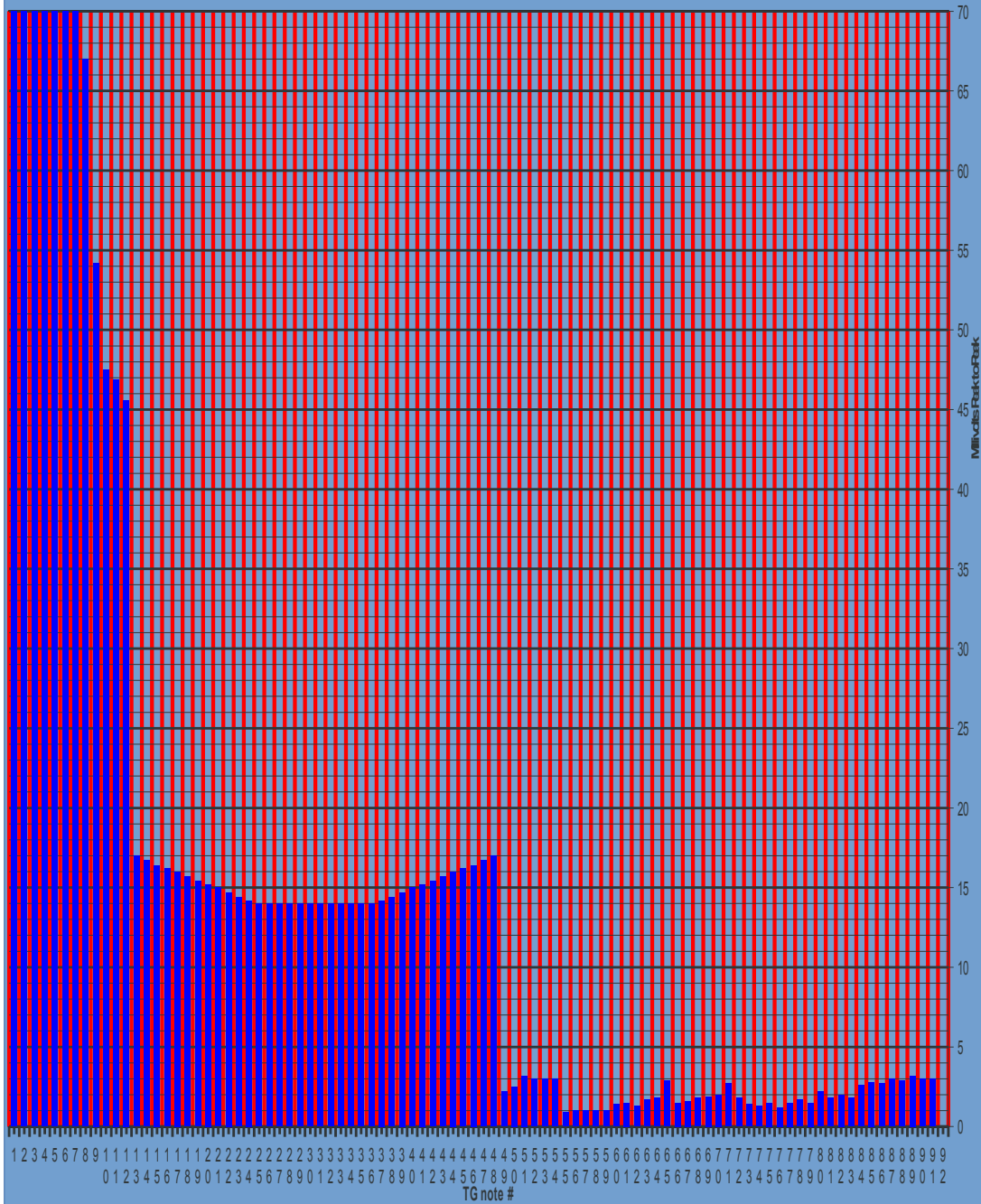
Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG notes 49 to 54 with 56 nf and TG notes 55 to 91 with 22 nf capacitors added in parallel with the red mylar capacitors to simulate moderately aged aged wax paper capacitors.



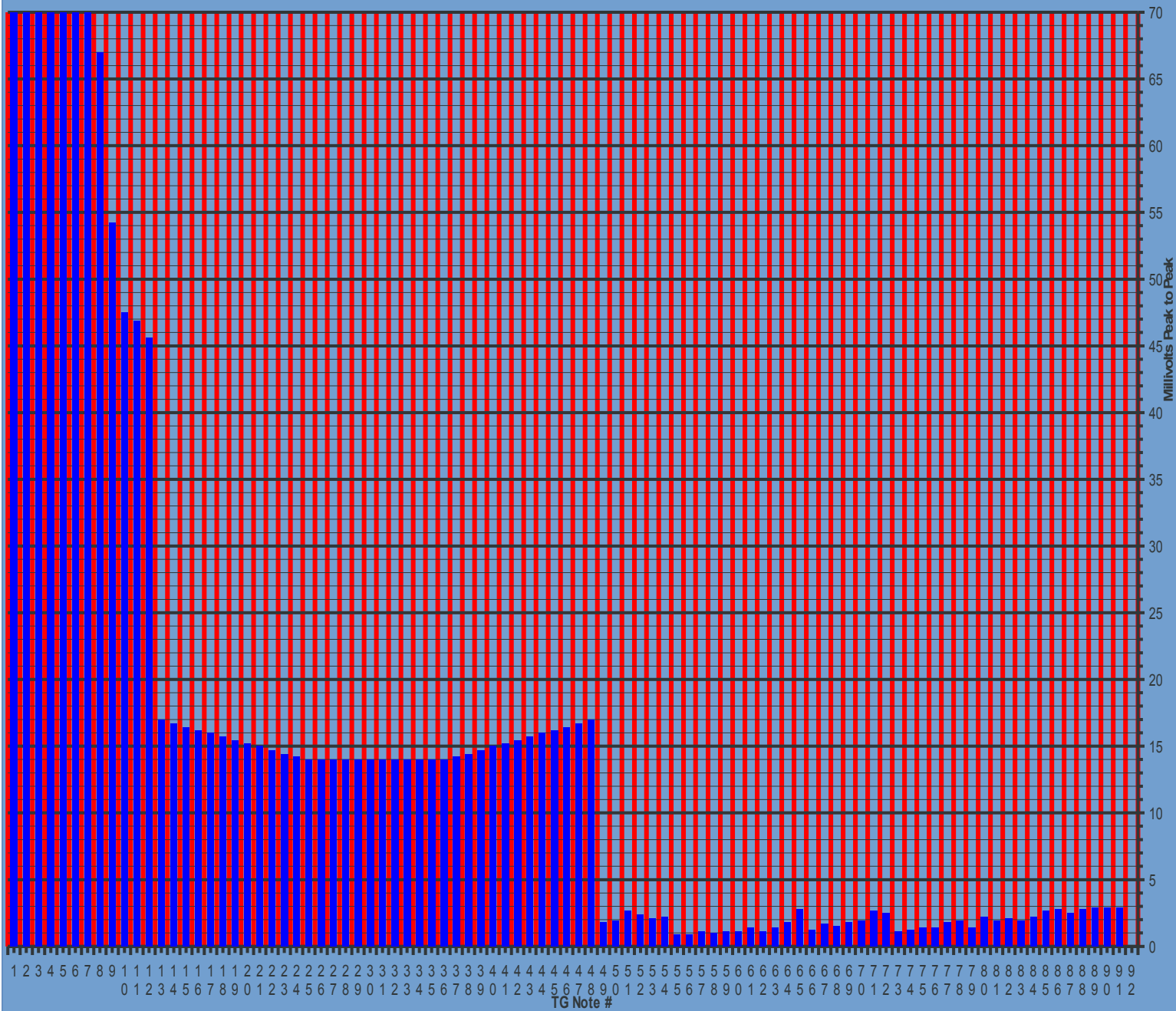
Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG notes 49-91 with 120 nf and 56 nf capacitors added in parallel with the red mylar capacitors for a 50 % increase in mfd value for a 50 + years aged wax caps sound.



Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG notes 49-91 with 680 nf capacitors added in parallel with the red mylar capacitors to simulate severely drifted up aged 1950's wax paper capacitors.

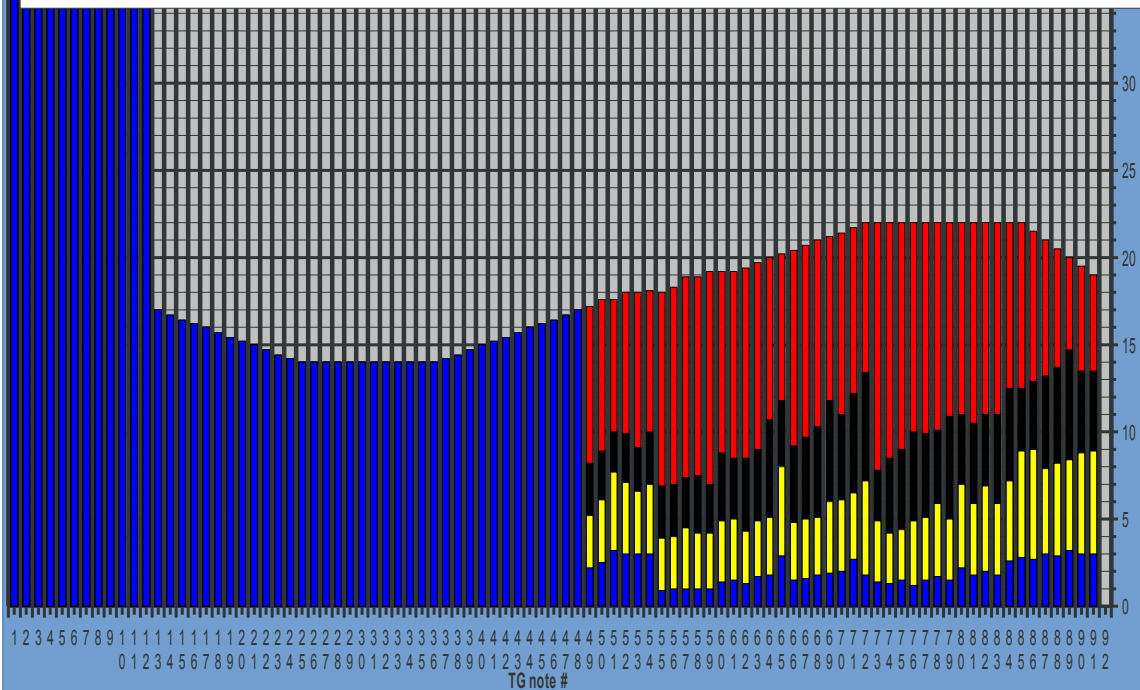


Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG note 49 to 91 capacitors fully shorted out for maximum ageing simulation.

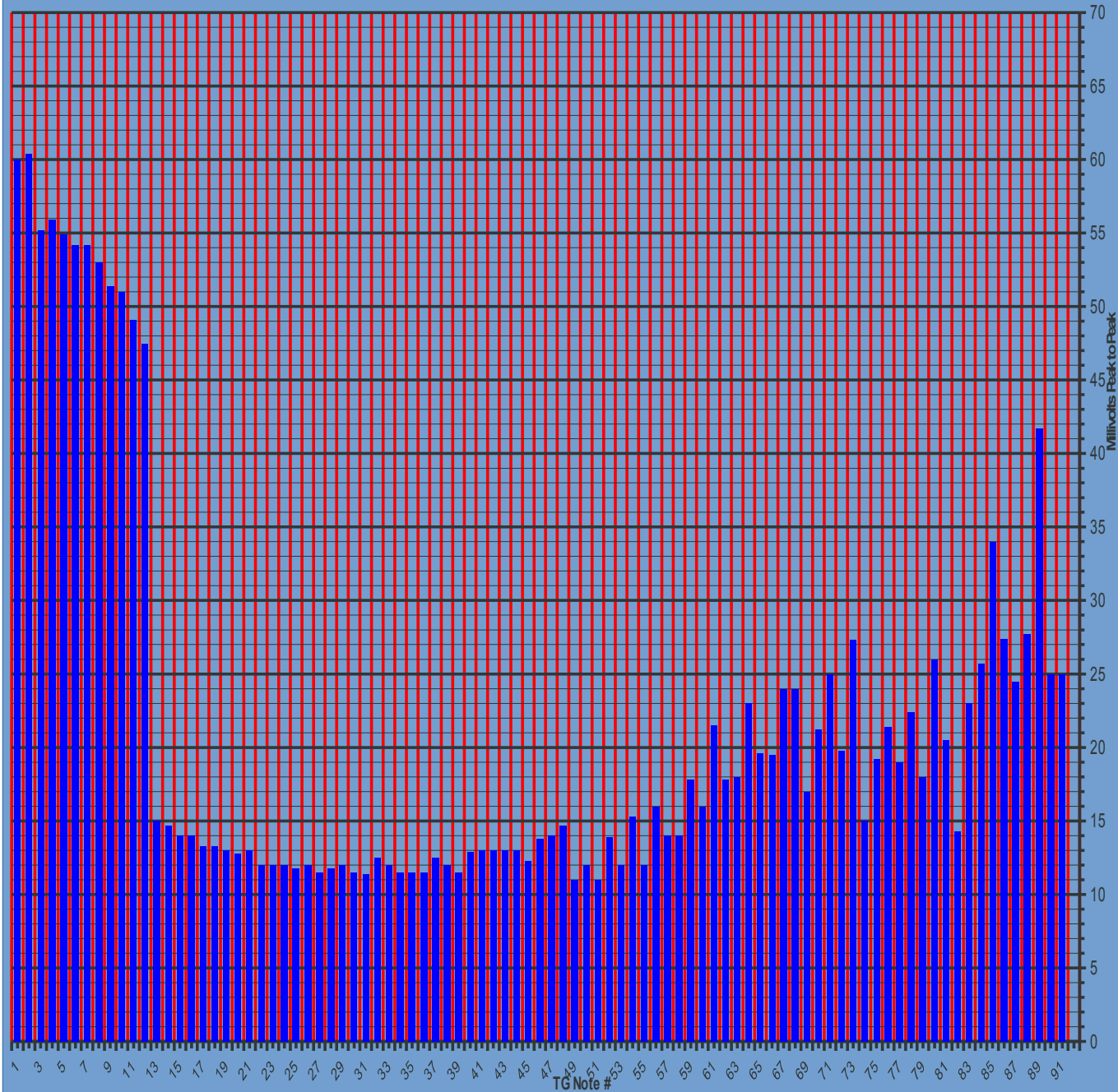




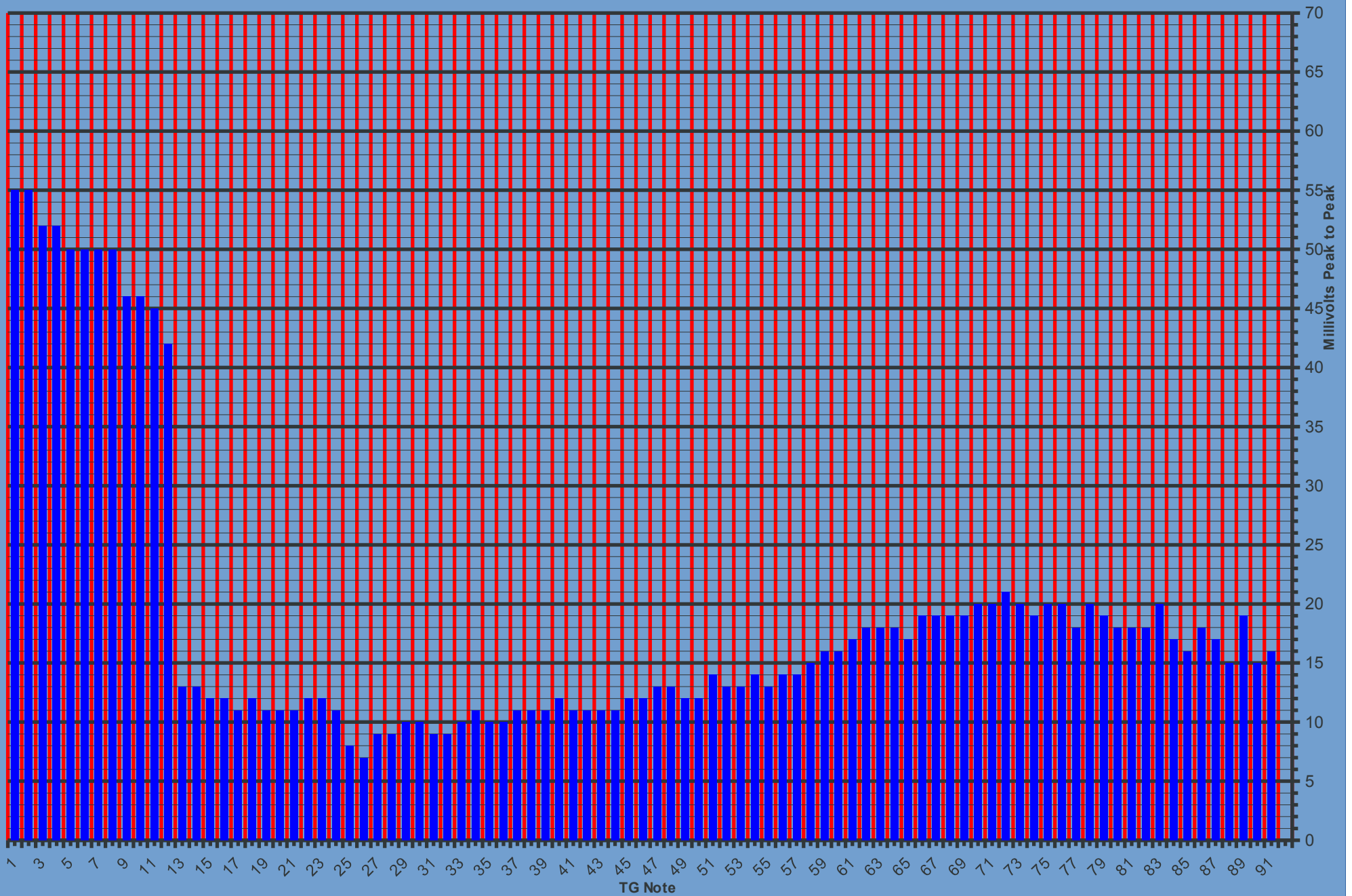
- Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. Bass pedal TG notes 1 to 12 refiltered to be more sine wave-like and recalibrated through the AO28 GG outputs to produce similar levels as the pedal notes 13 to 24.
- Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG notes 49 to 54 with 56 nf and TG notes 55 to 91 with 22 nf capacitors added in parallel with the red mylar capacitors to simulate moderately aged wax paper capacitors.
- Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG notes 49-91 with 120 nf and 56 nf capacitors added in parallel with the red mylar capacitors for a 50 % increase in mfd value for a 50 + years aged wax caps sound.
- Kon's red mylar capped 1965 C3 S/n 95237. 20 September 2017 TG recalibration. TG notes 49-91 with 680 nf capacitors added in parallel with the red mylar capacitors to simulate severely drifted up aged 1950's wax paper capacitors.



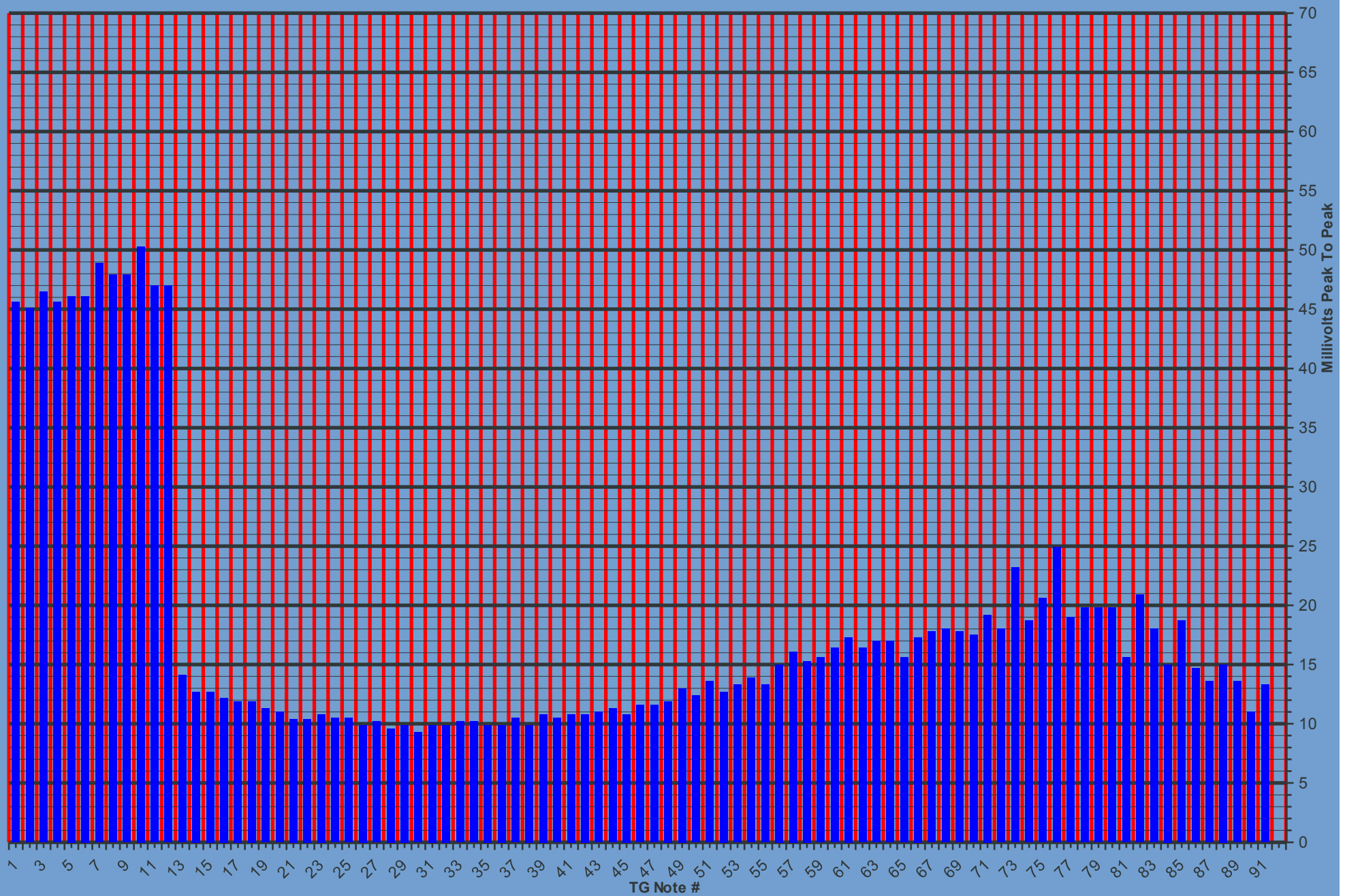
Bernie's Musicland 1966 C3 with red mylar caps. S/n 96641. Nice "Airy" leakage. Similar sound to the Hammond Suzuki New B3 organ that was in the shop. Measured by Kon



John's Readjusted 1968 C3 . With red mylar caps

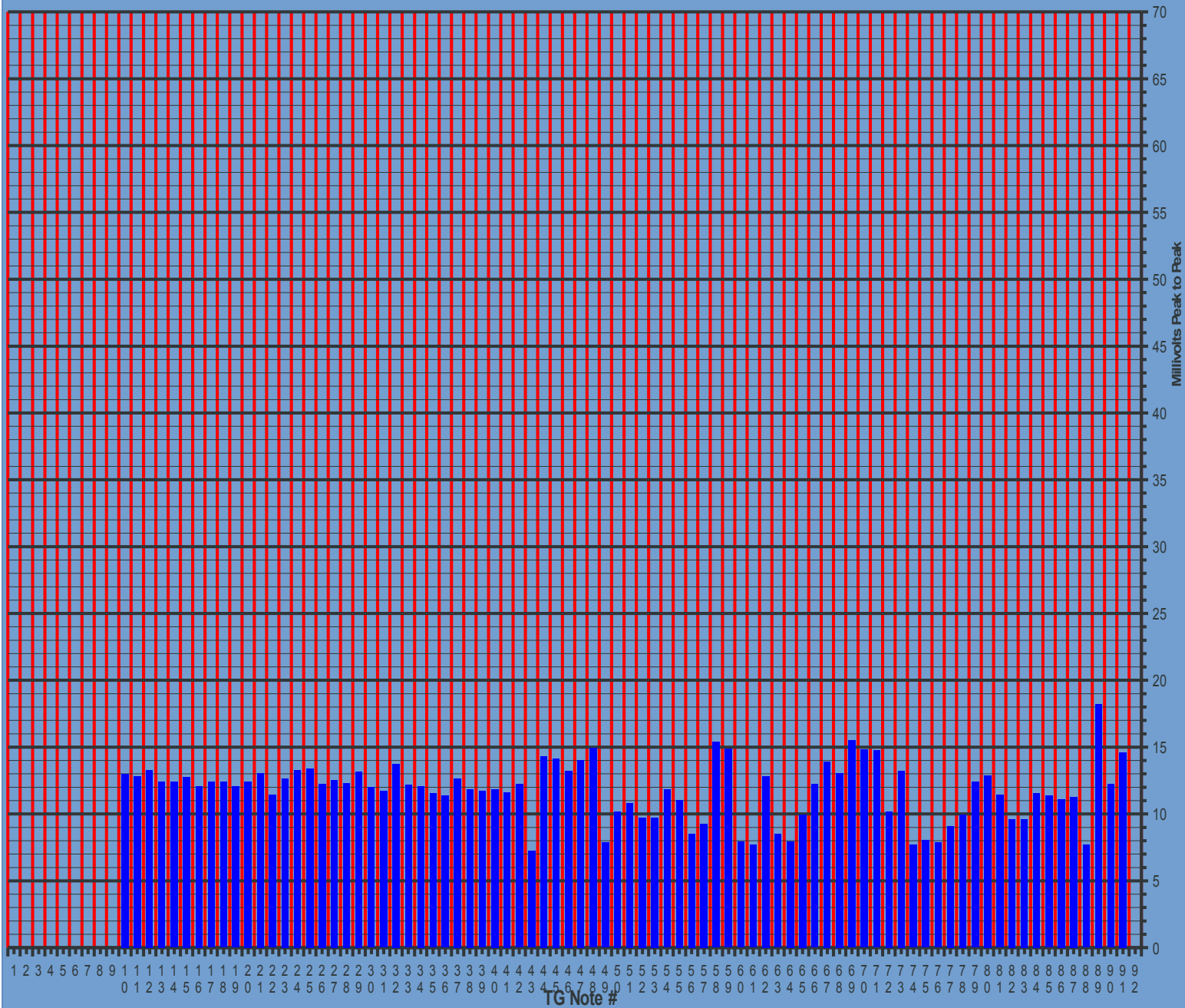


Bernard's 1973 C3 with red mylar capacitors "Bright sound". mV RMS levels converted to mVppp by Kon.

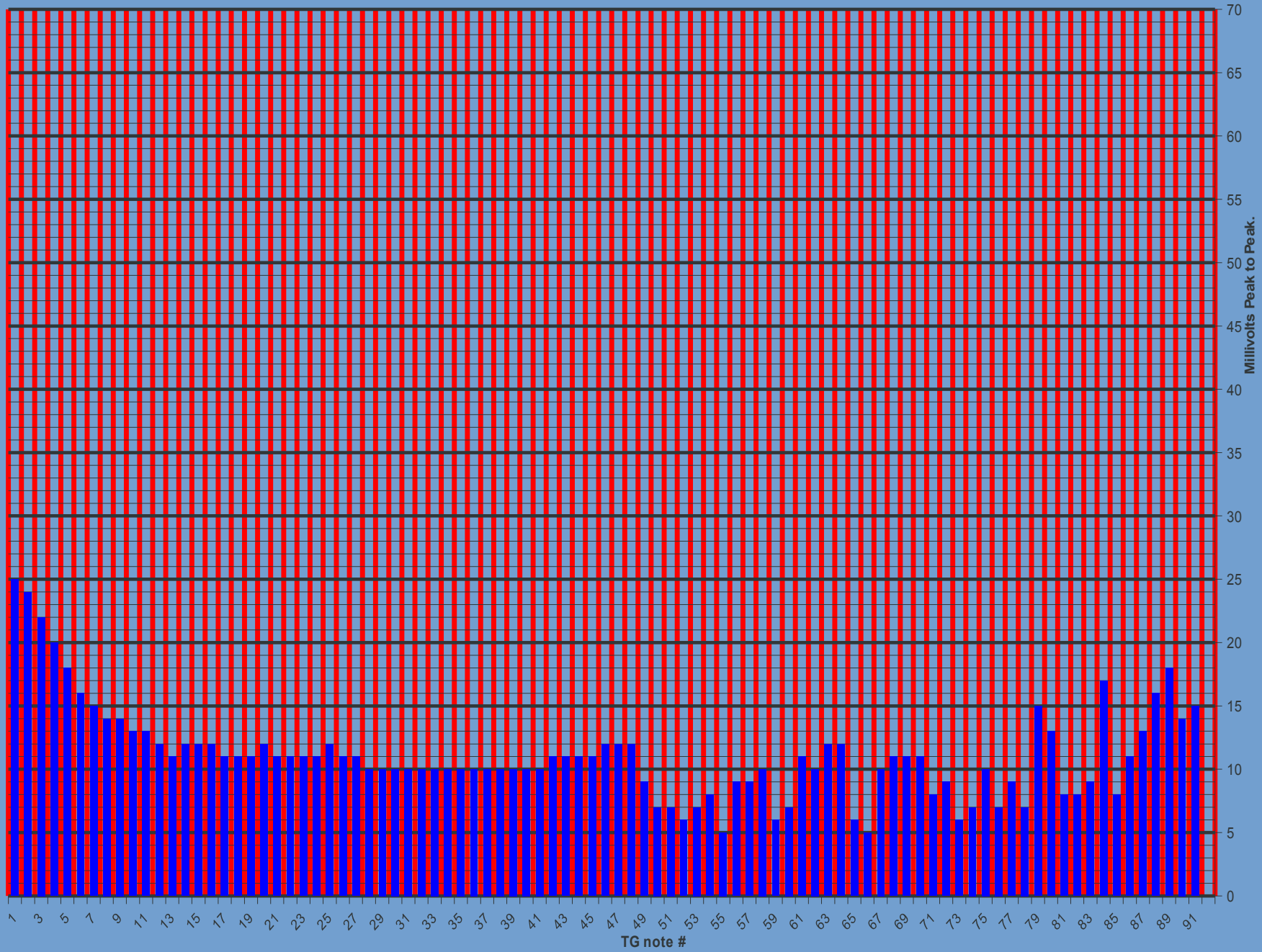




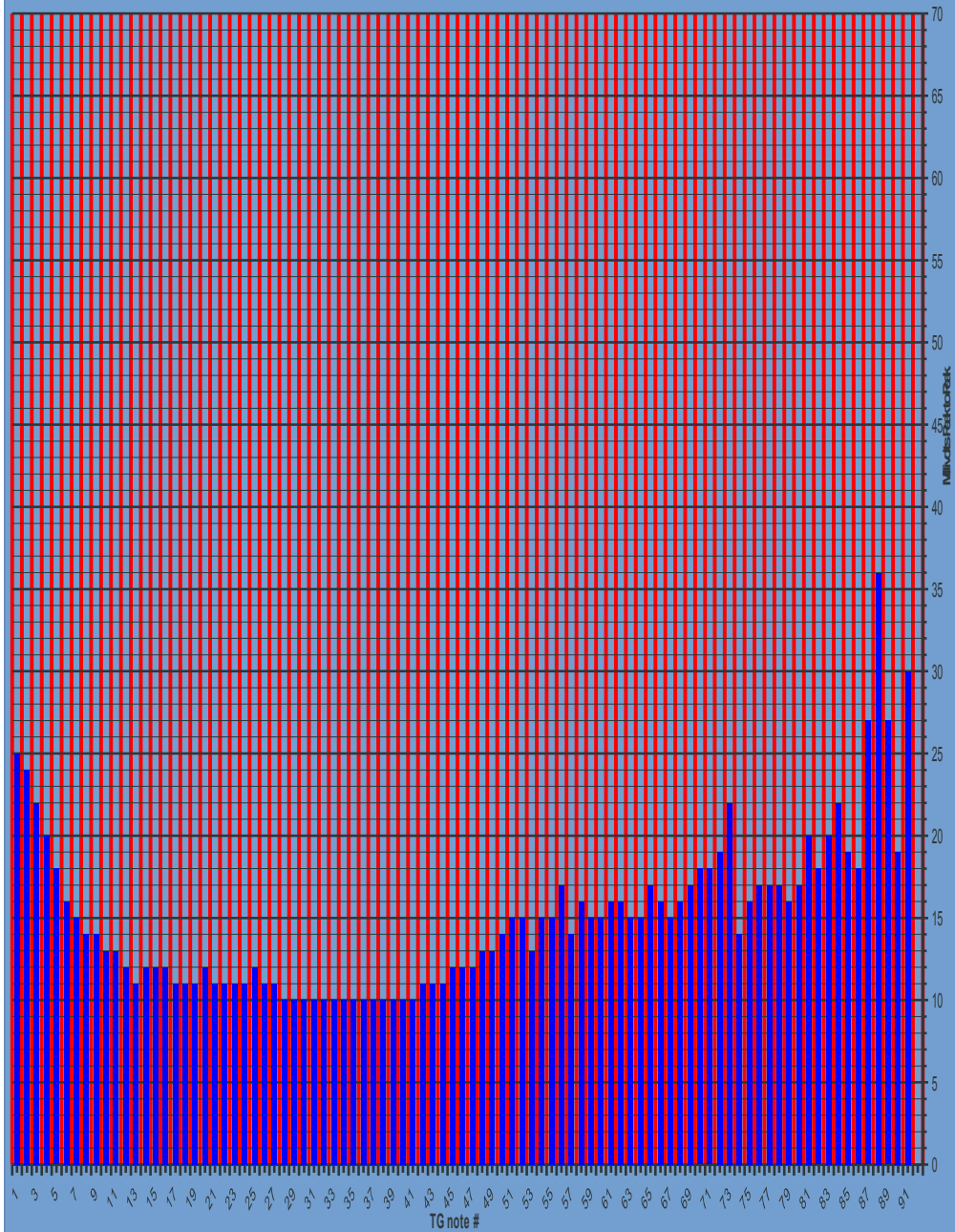
Daniel's 1940 ? Model D. 82 note TG . Wax capacitors . Mellow sound with breath and growl . Measured with Iwatsu DS88248 Bringo II Digital oscilloscope.



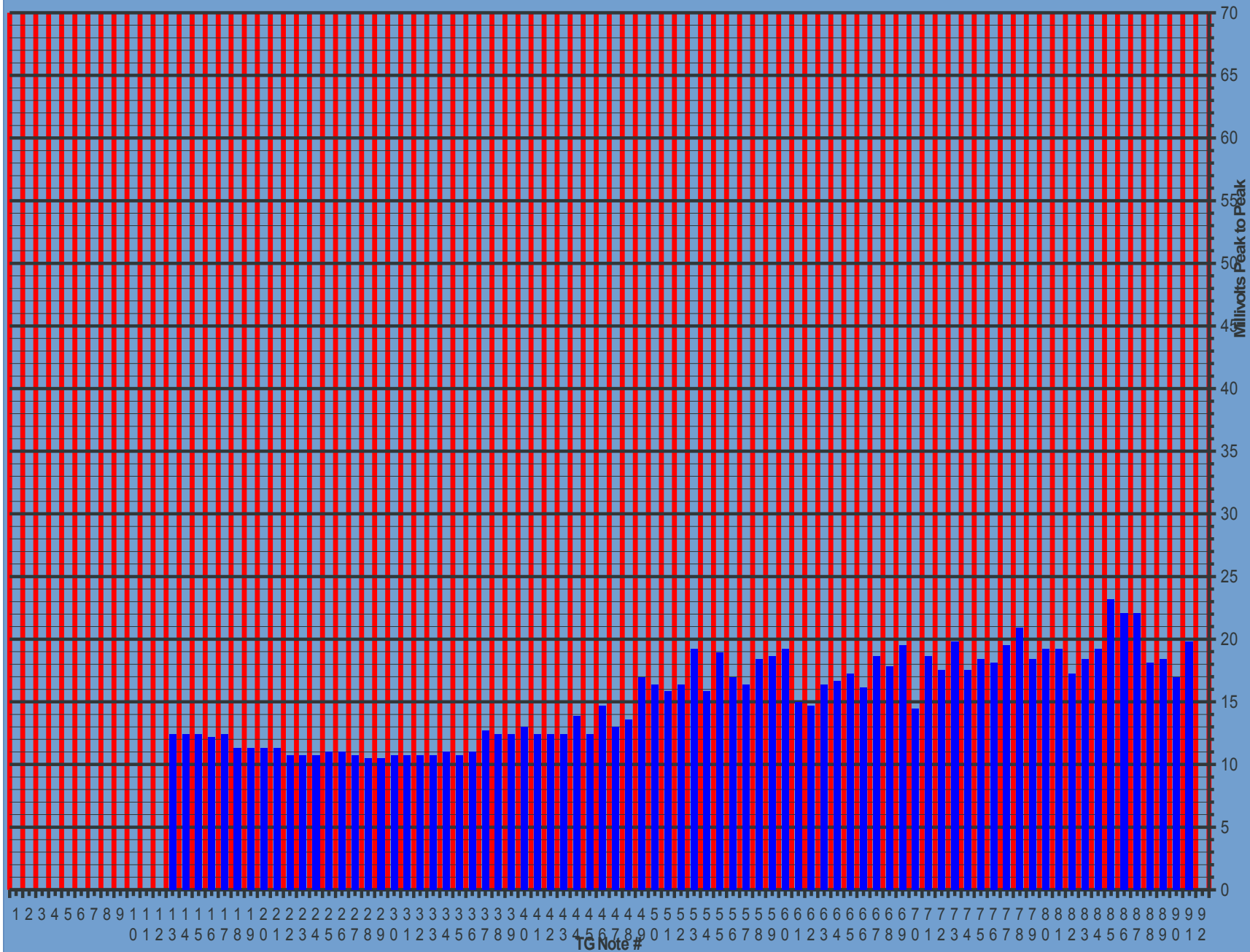
Wax capped 1940 Model EV. S/n 8638. Measured by Nathan. "This organ sounded very muddy, dull, lifeless. The attack seemed rather slow."



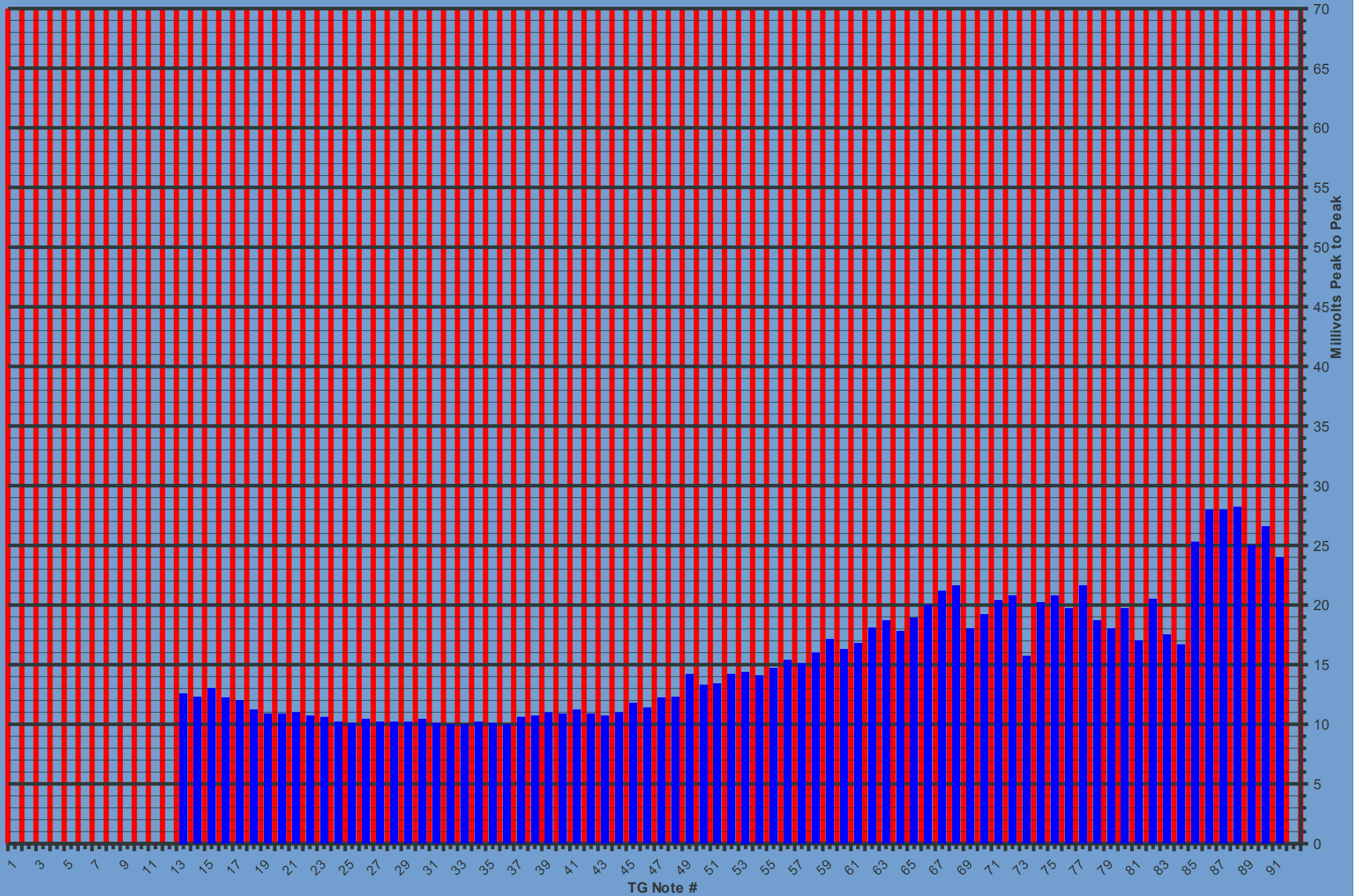
Recapped 1940 Model EV. S/n 8638. Recapped and measured by Nathan. "Before the recap, the organ sounded very muddy, dull, lifeless. The attack seemed rather slow. After the recap, the organ opened up in brightness, clarity, and much improved attack."



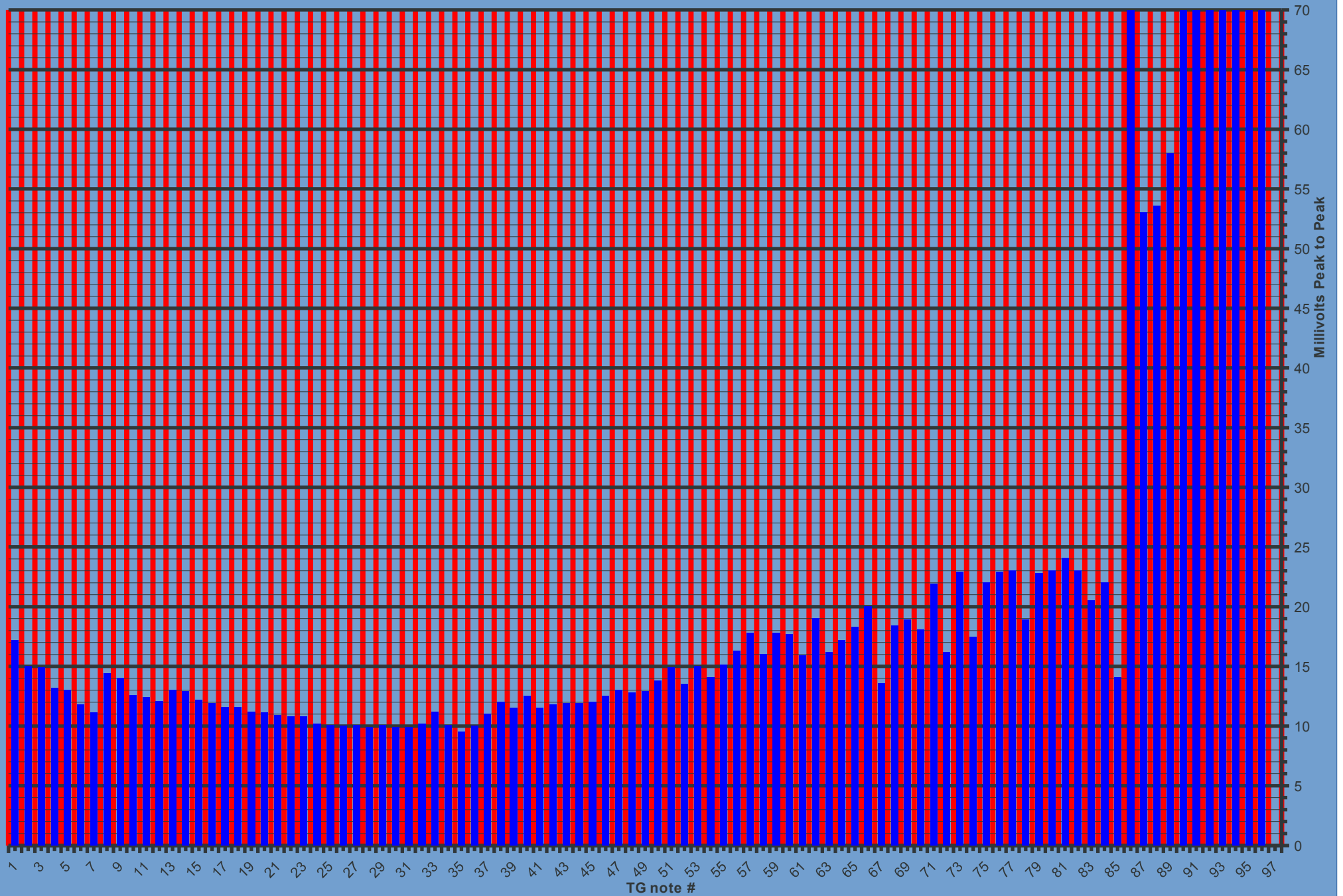
Markus's red mylar capped 1965 E-112. S/n 1463. "Bright , harsh and nasal sound ". mVpp levels converted from mV RMS levels by Kon.



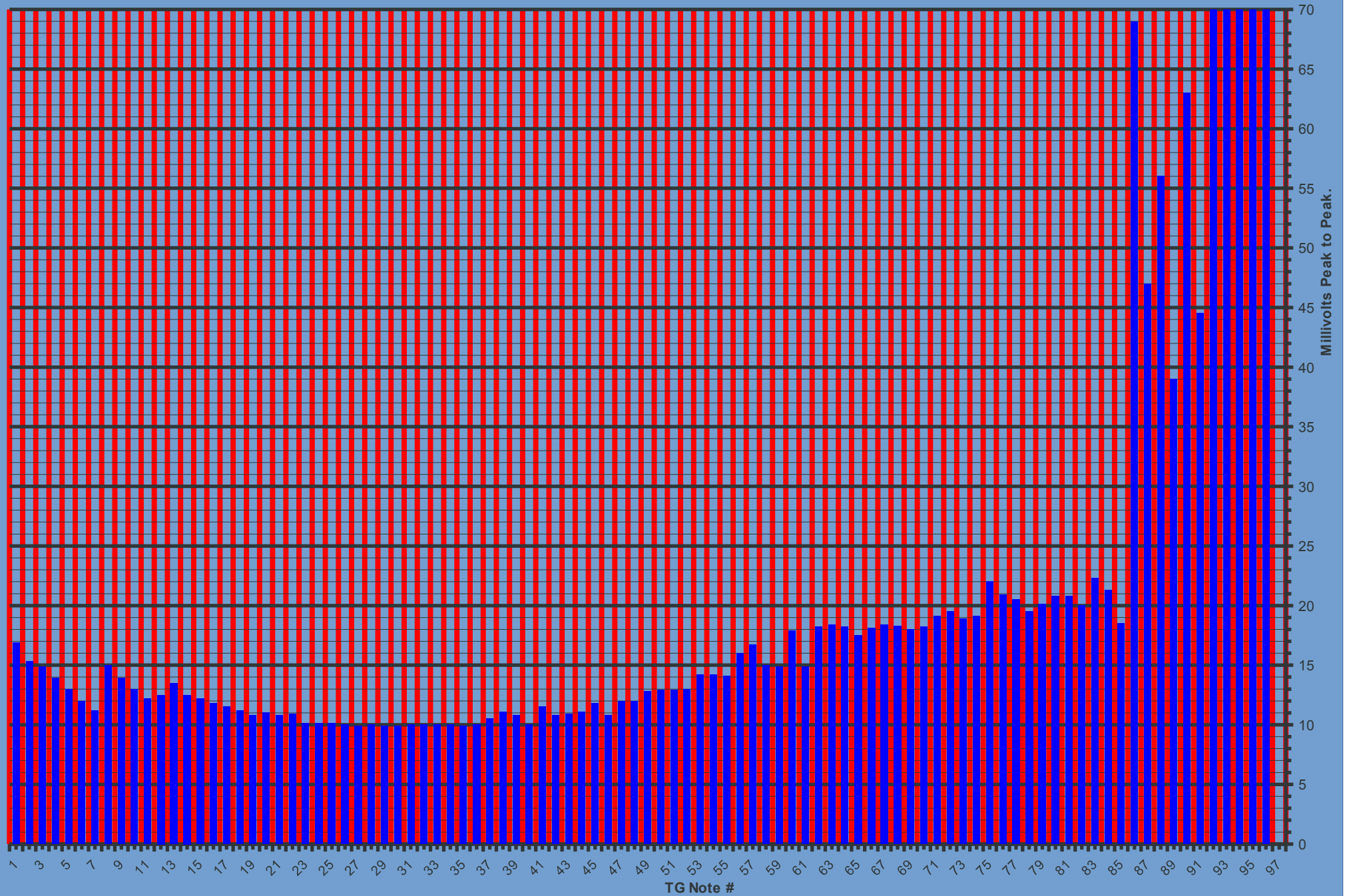
Tomi's red mylar capped E-112 measured by Benjamin, 27 November 2012. " A real rocking organ !"



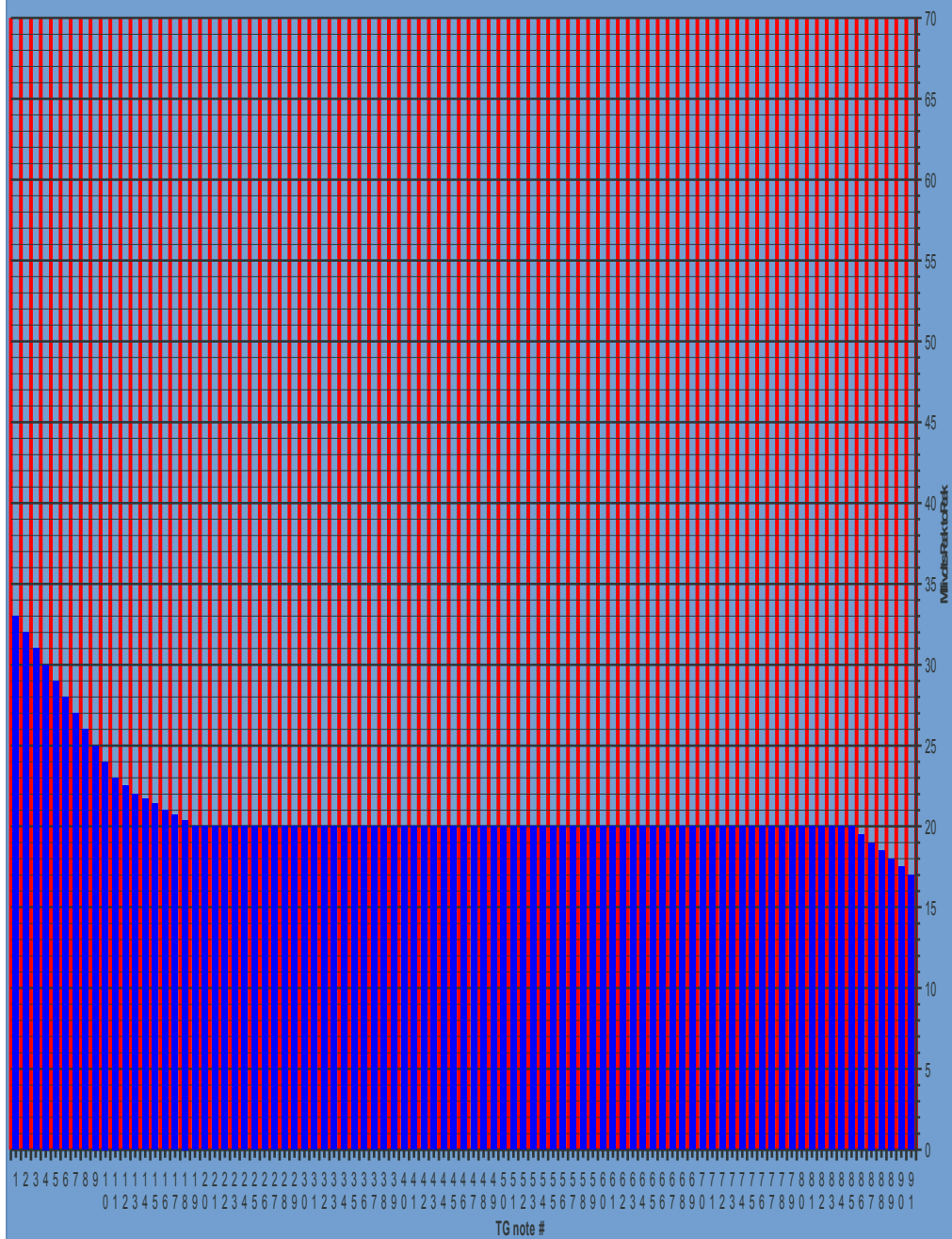
Kon's 1965 red mylar capped H-111. S/n 4723. Original TG output levels. Measured by Kon, 8 November 2016.



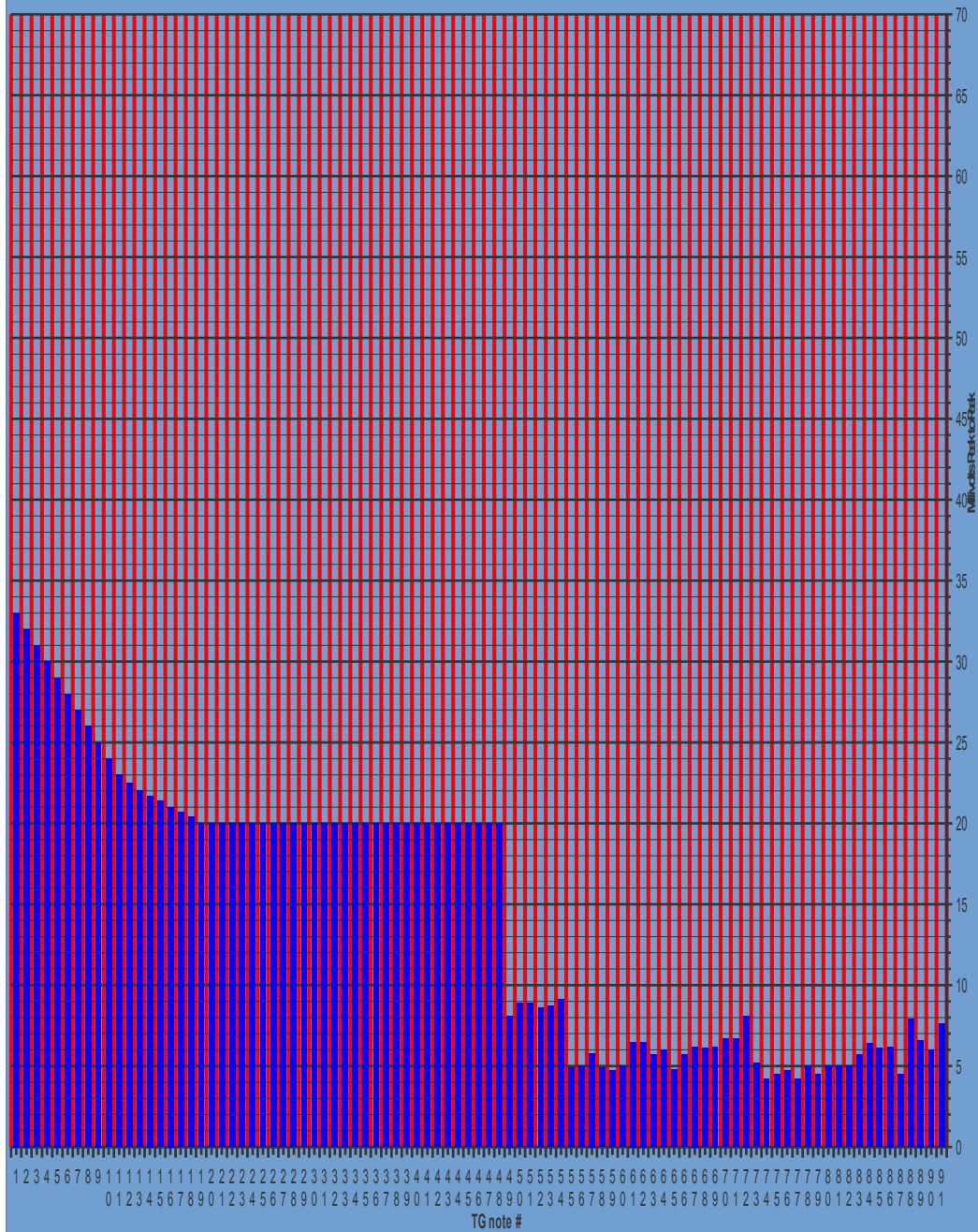
Kon's red mylar capped 1969 H-111 S/n A-26478. Original TG output levels. Measured by Kon 15 February 2013.

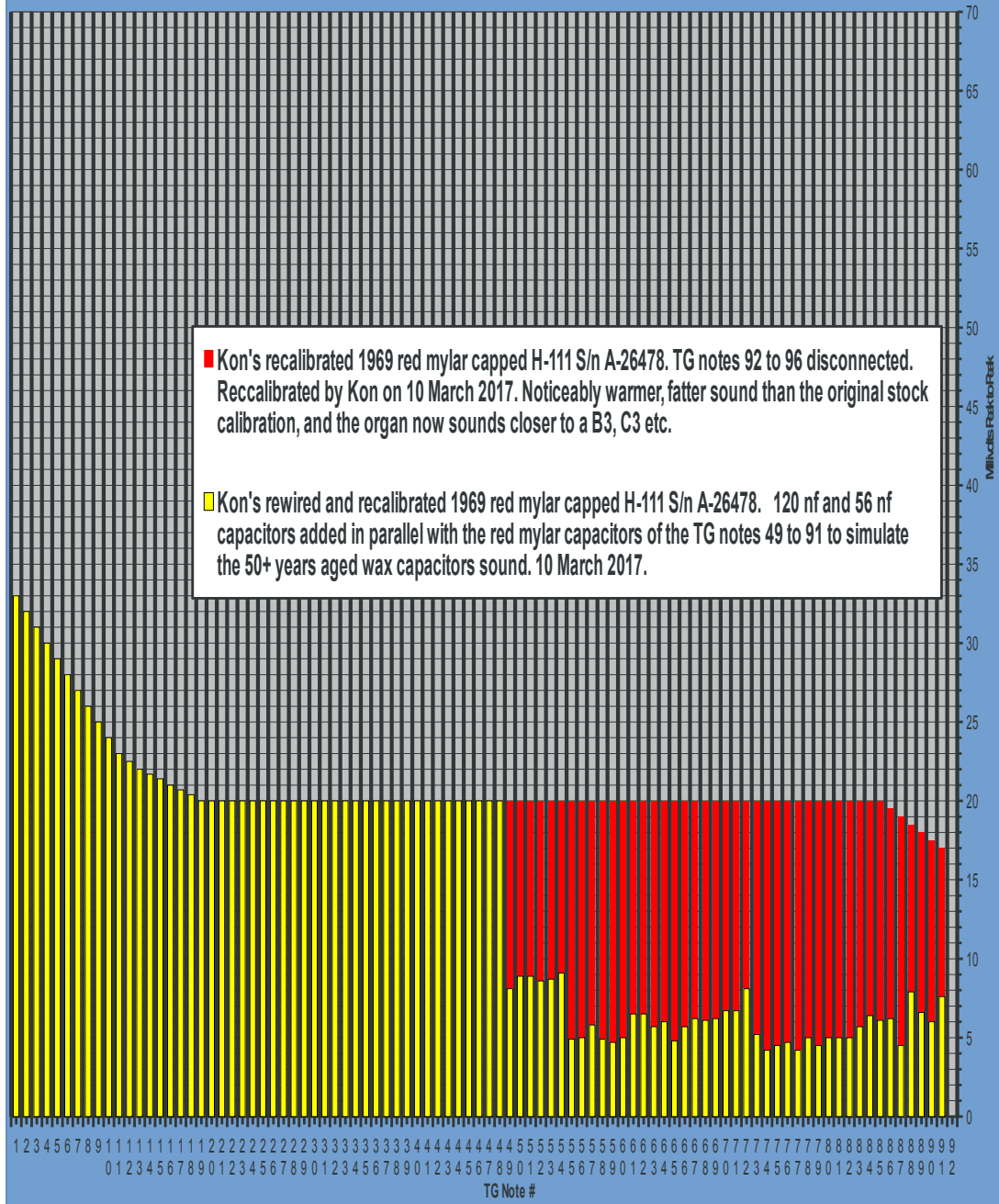


Kon's recalibrated 1969 red mylar capped H-111 S/n A-26478. TG notes 92 to 96 disconnected. Recalibrated by Kon on 10 March 2017. Noticeably warmer, fatter sound than the original stock calibration, and the organ now sounds closer to a B3, C3 etc.

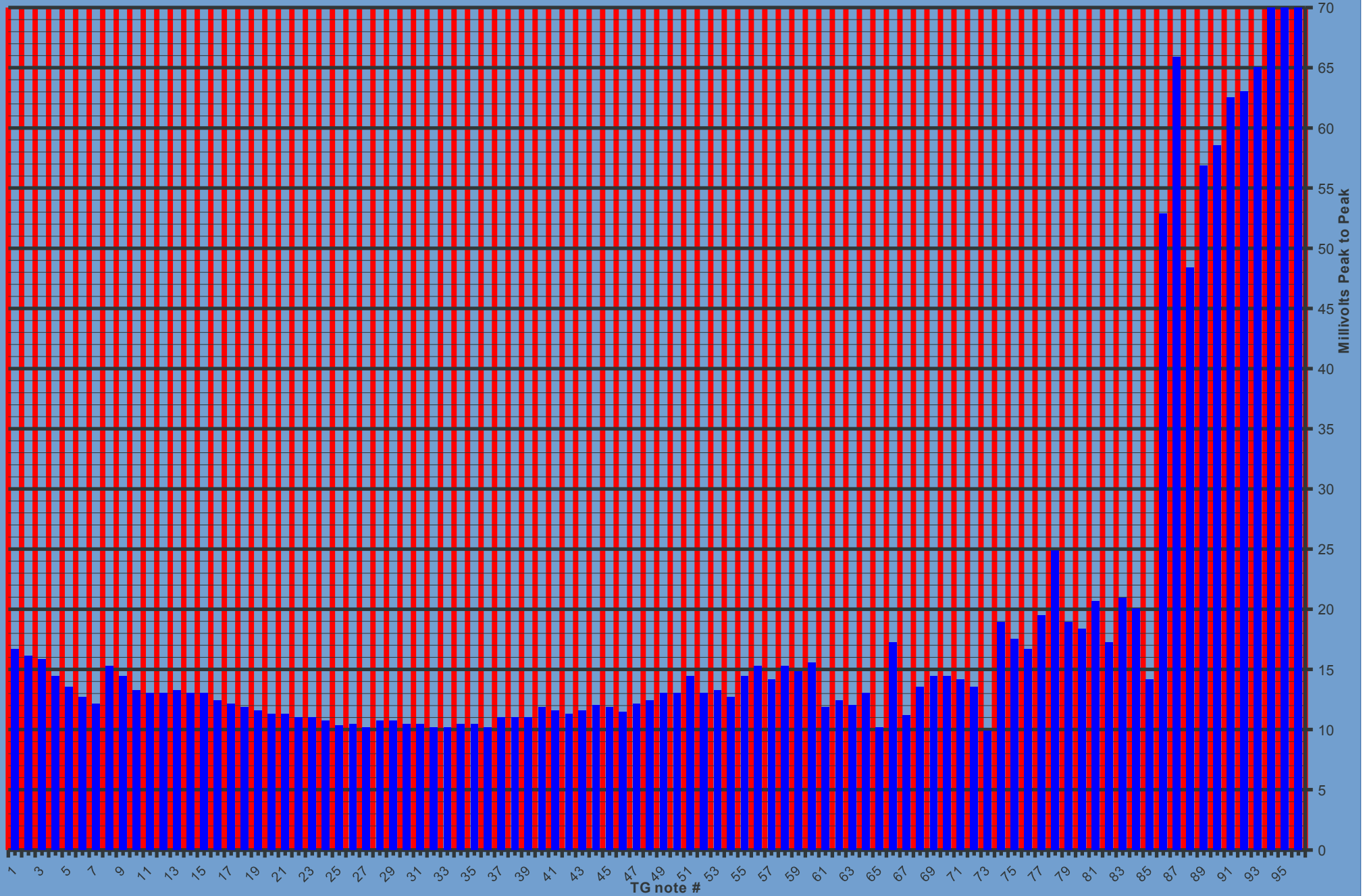


Kon's rewired and recalibrated 1969 red mylar capped H-111 S/n A-26478. 120 nf and 56 nf capacitors added in parallel with the red mylar capacitors of the TG notes 49 to 91 to simulate the 50+ years aged wax capacitors sound. 10 March 2017.

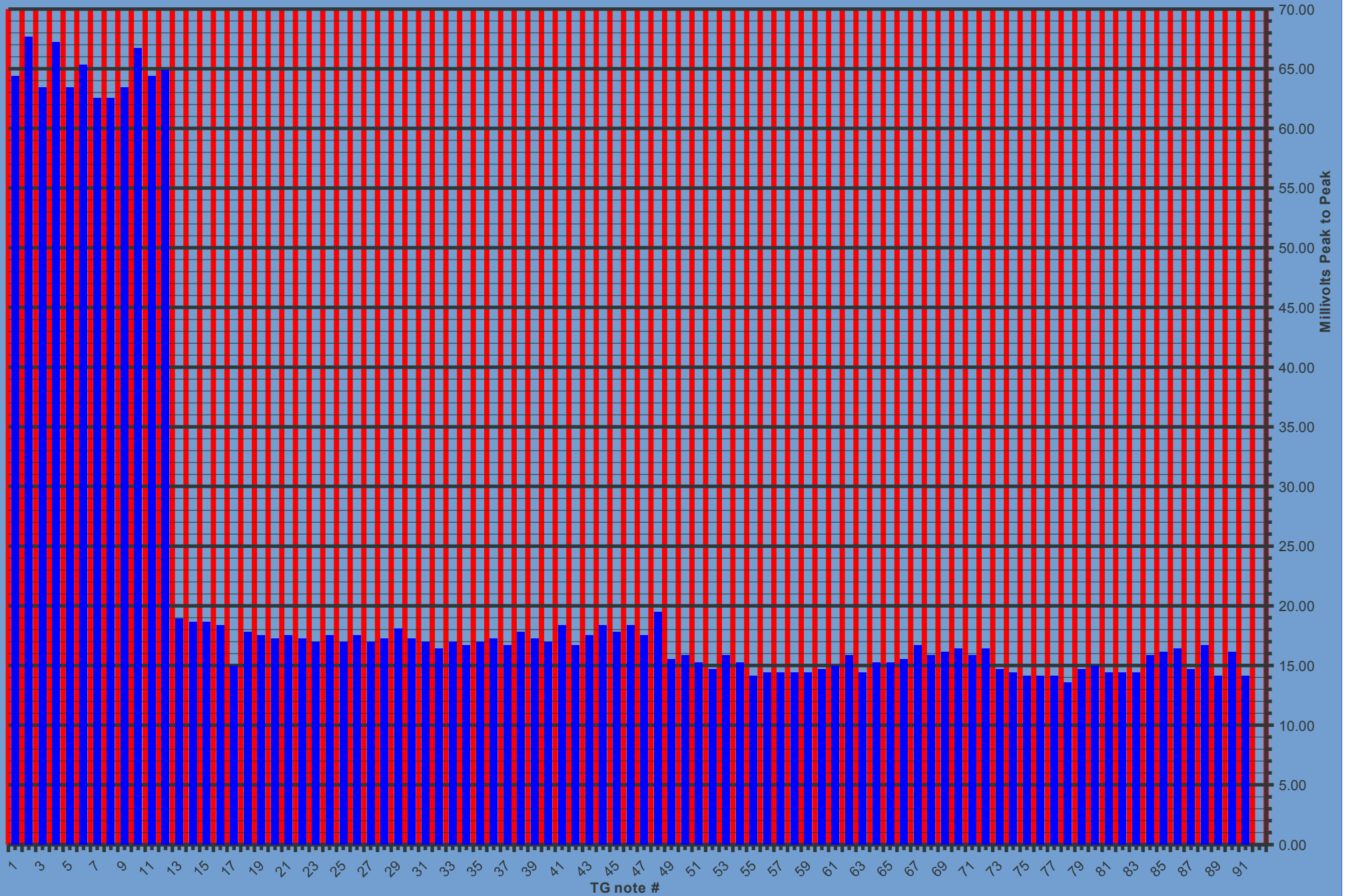




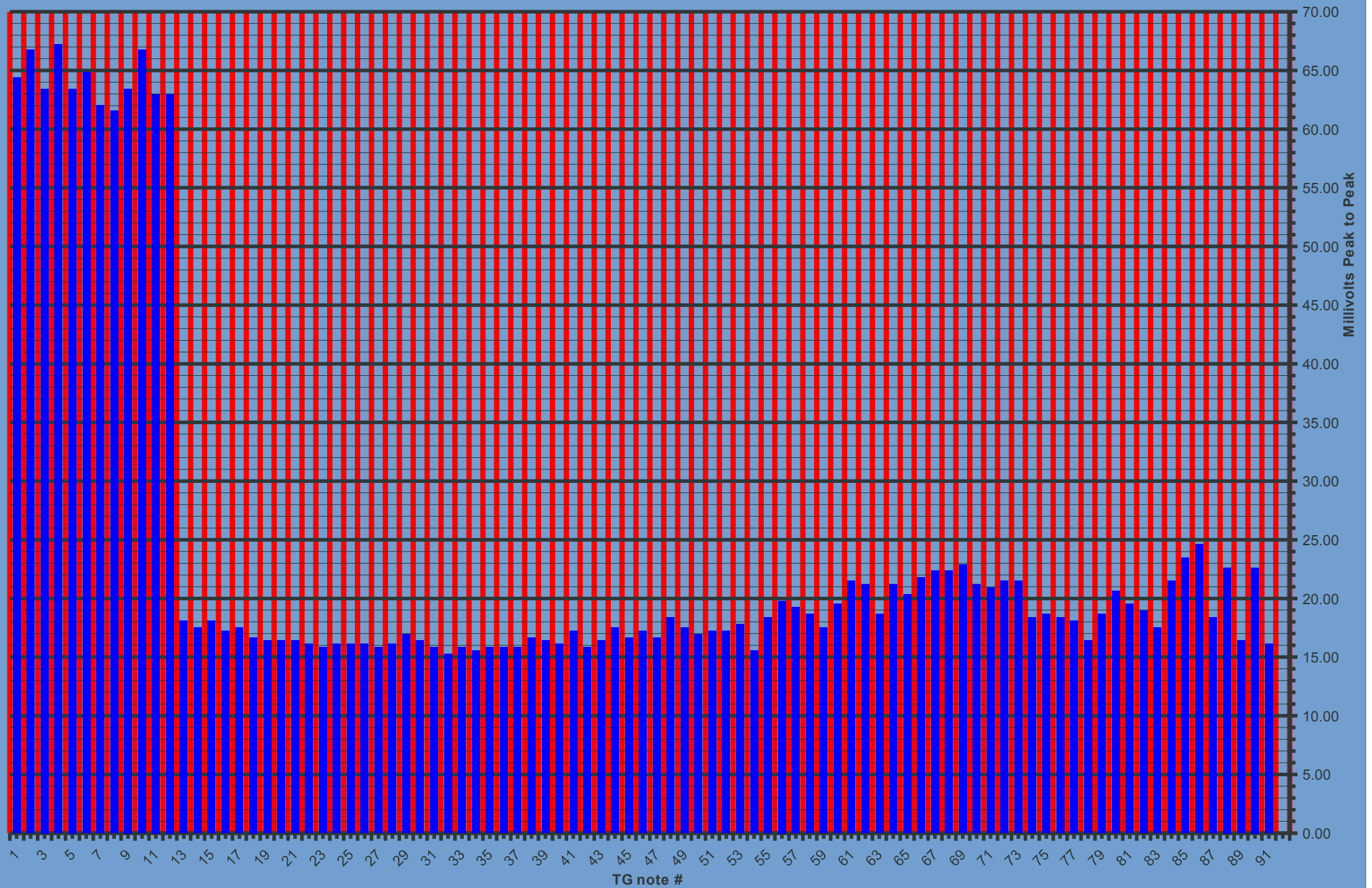
Jim's red mylar capped H-133. Very bright high treble. mV RMS levels converted to mVpp by Kon



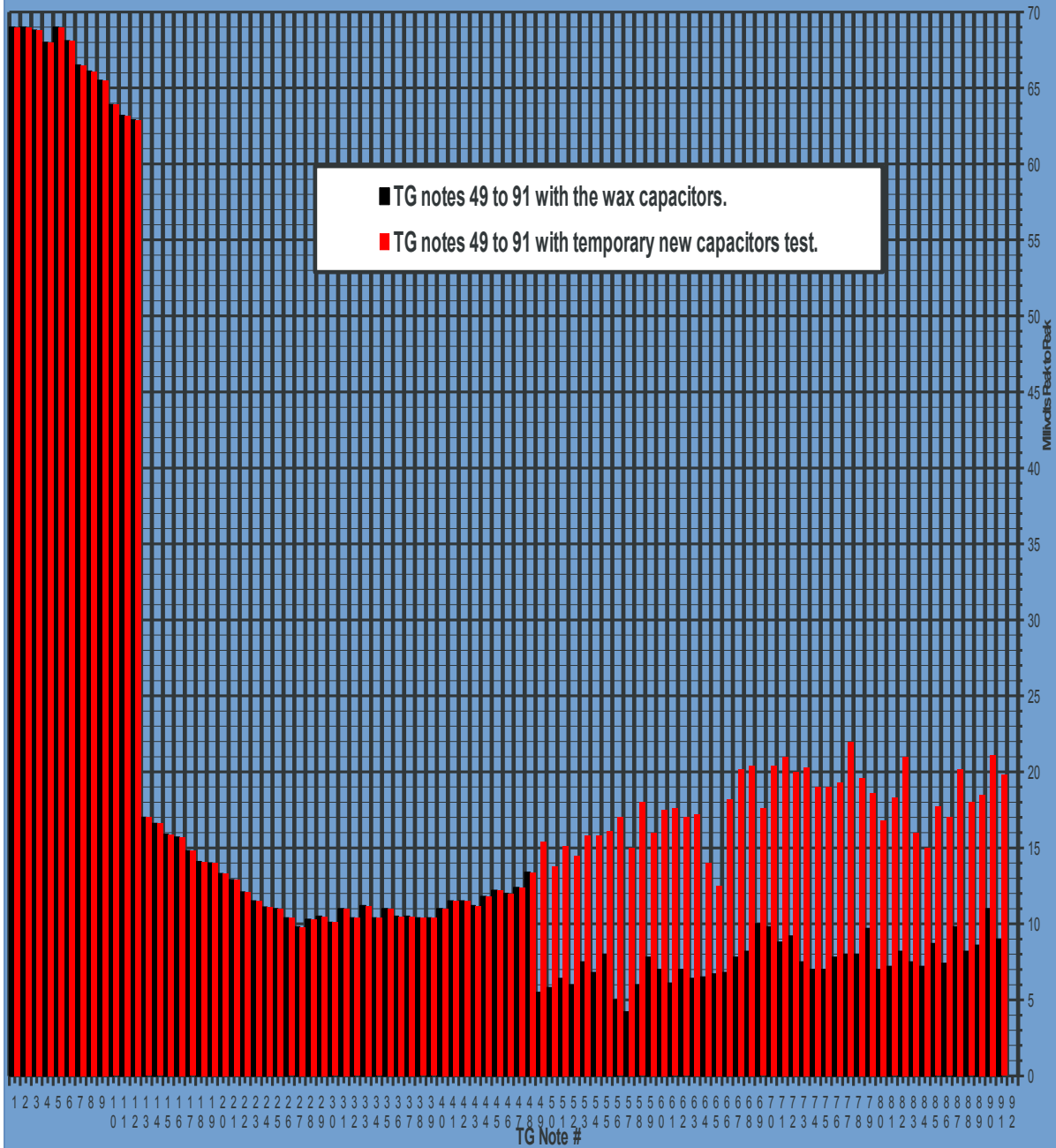
Fernando's wax capped 1960 RT3. Serial # 5669 . mVRMS levels converted to mVpp by Kon, 25 February 2014.



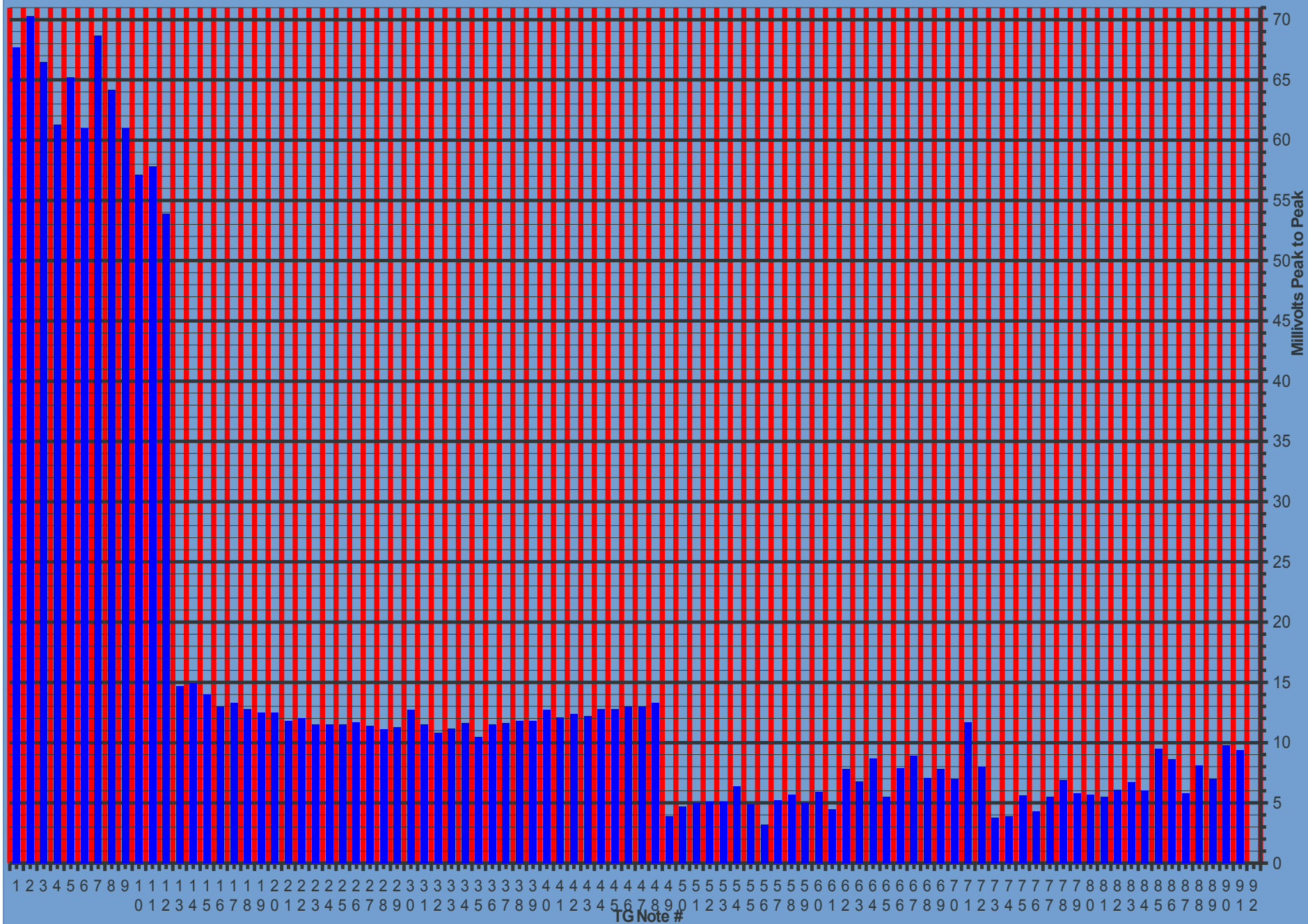
Fernando's recapped 1960 RT3. Serial # 5669. mVRMS levels converted to mVpp by Kon, 25 February 2014.



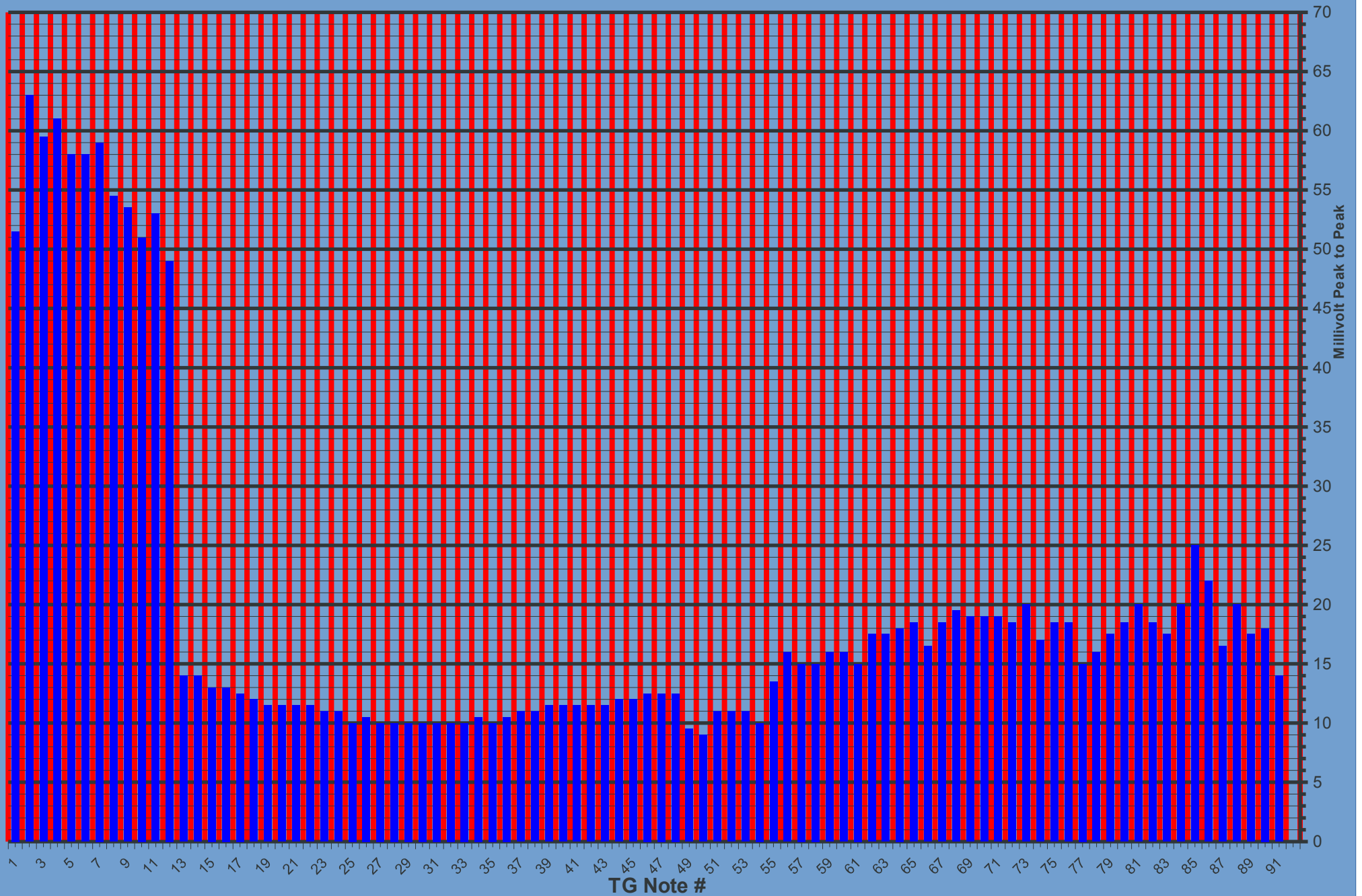
Church 1960 RT3 S/n 6925 Output levels comparison of the TG Notes 49 to 91 measured with the stock aged wax caps and with the temporary correct mfd spec new caps test. Tested and measured by Kon.



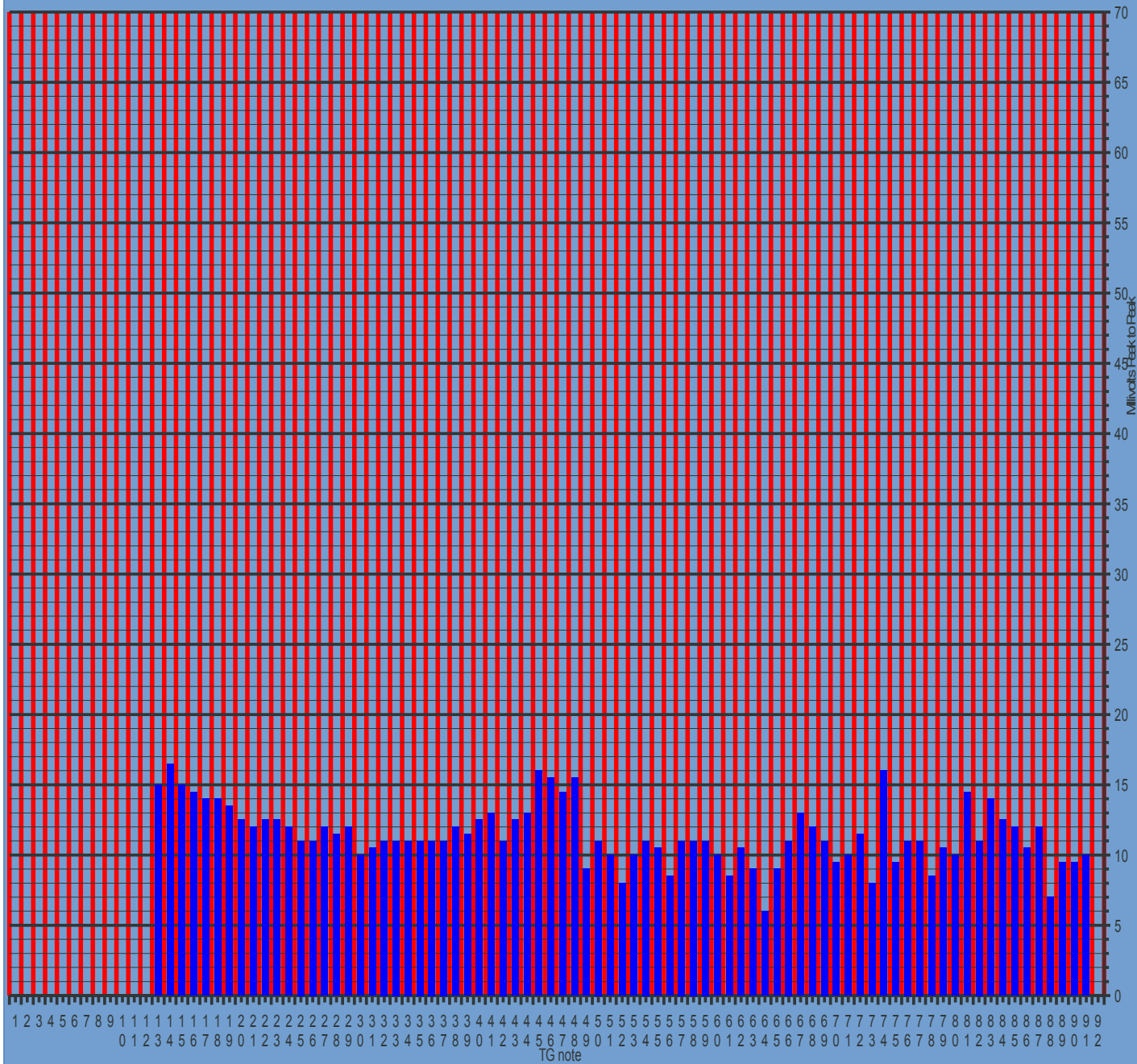
Simon's 1960 RT3 with wax capacitors. S/n 7156 Nice warm sound very similar to the Church 1960 RT3. Measured by Kon.



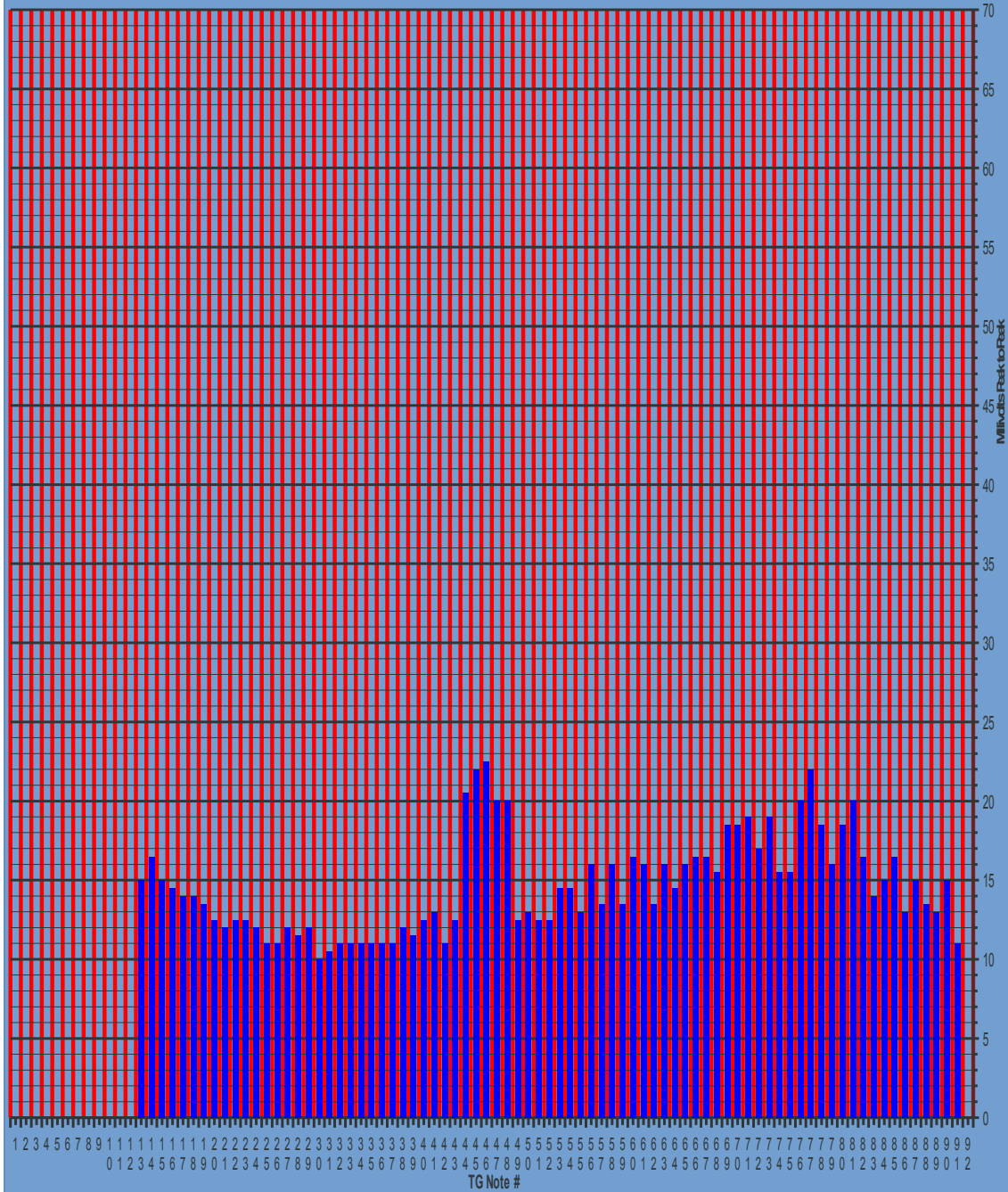
Geoff's recapped 1961 RT3 . "Jack Mcduff woody filth " sound



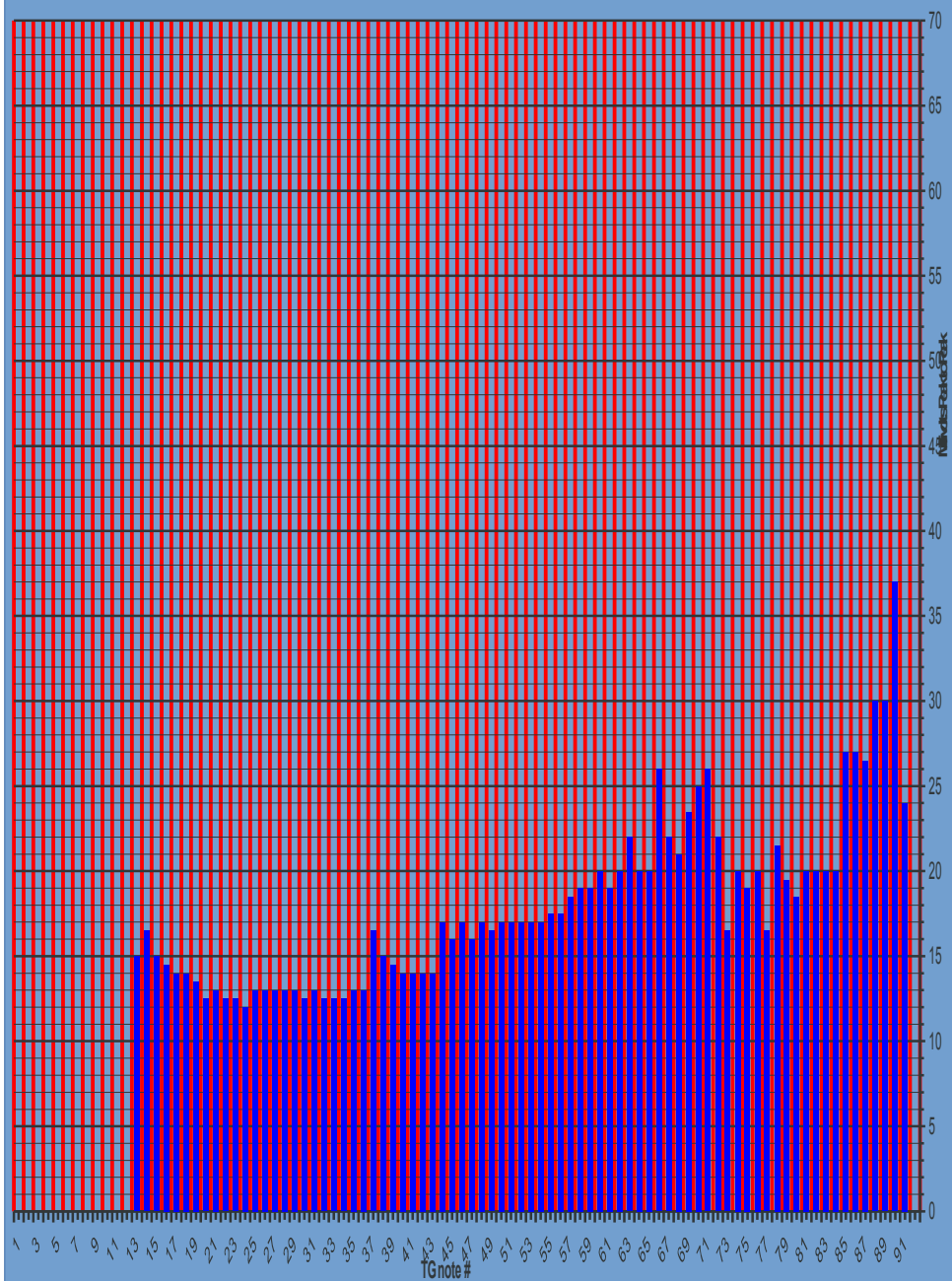
Dave H's 1962 wax capped RT3. S/n 7525. Built by Boosey & Hawkes in the UK. Sine wave TG notes 13 to 91 measured by Dave with the analogue mVpp meter built by Kon



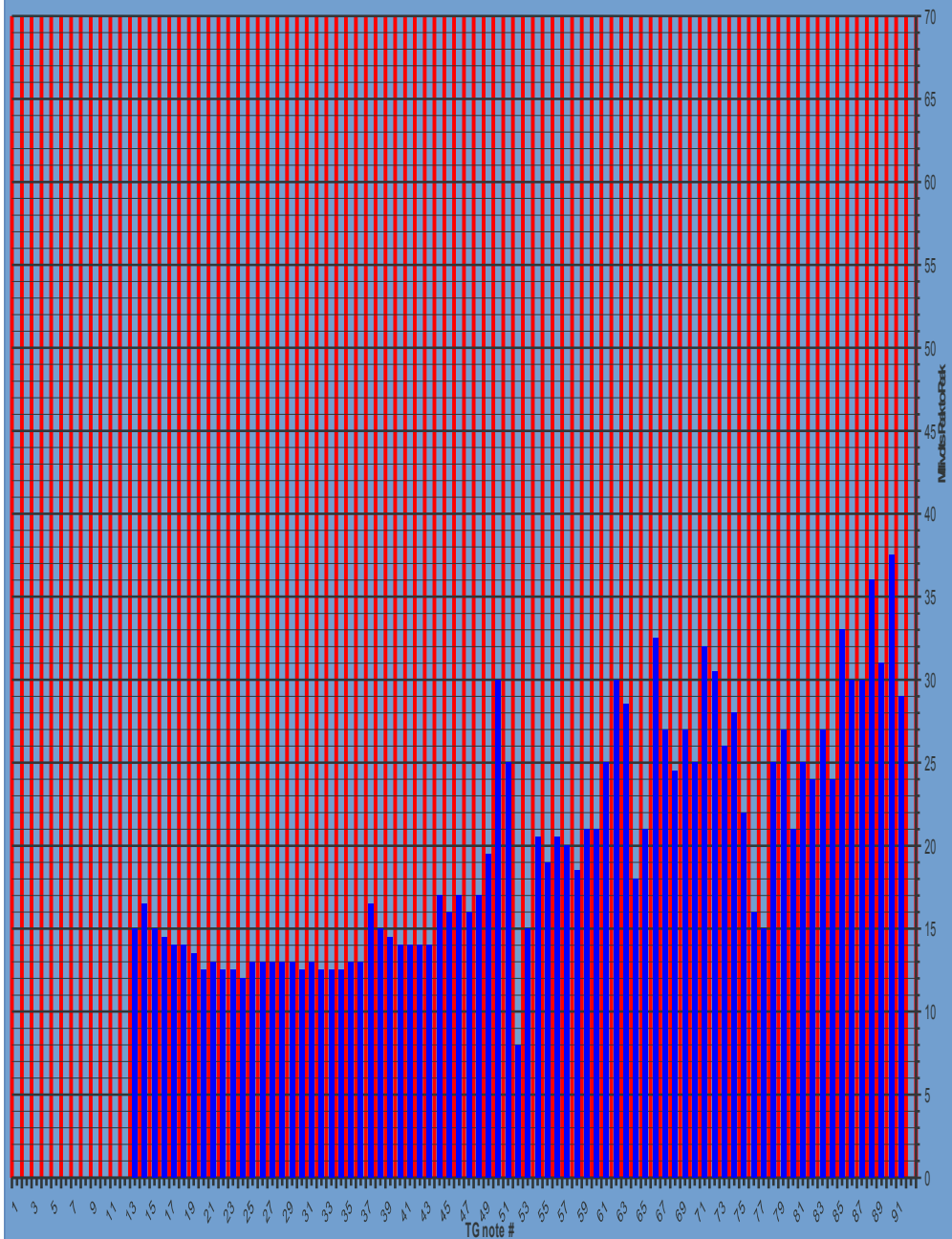
Dave H's recapped 1962 RT3. S/n 7525. Transformer coils removed from the TG notes 44 to 48 in preparation for the addition of the RC hum filters, and the TG notes 49 to 91 recapped with new MKT polyester capacitors."



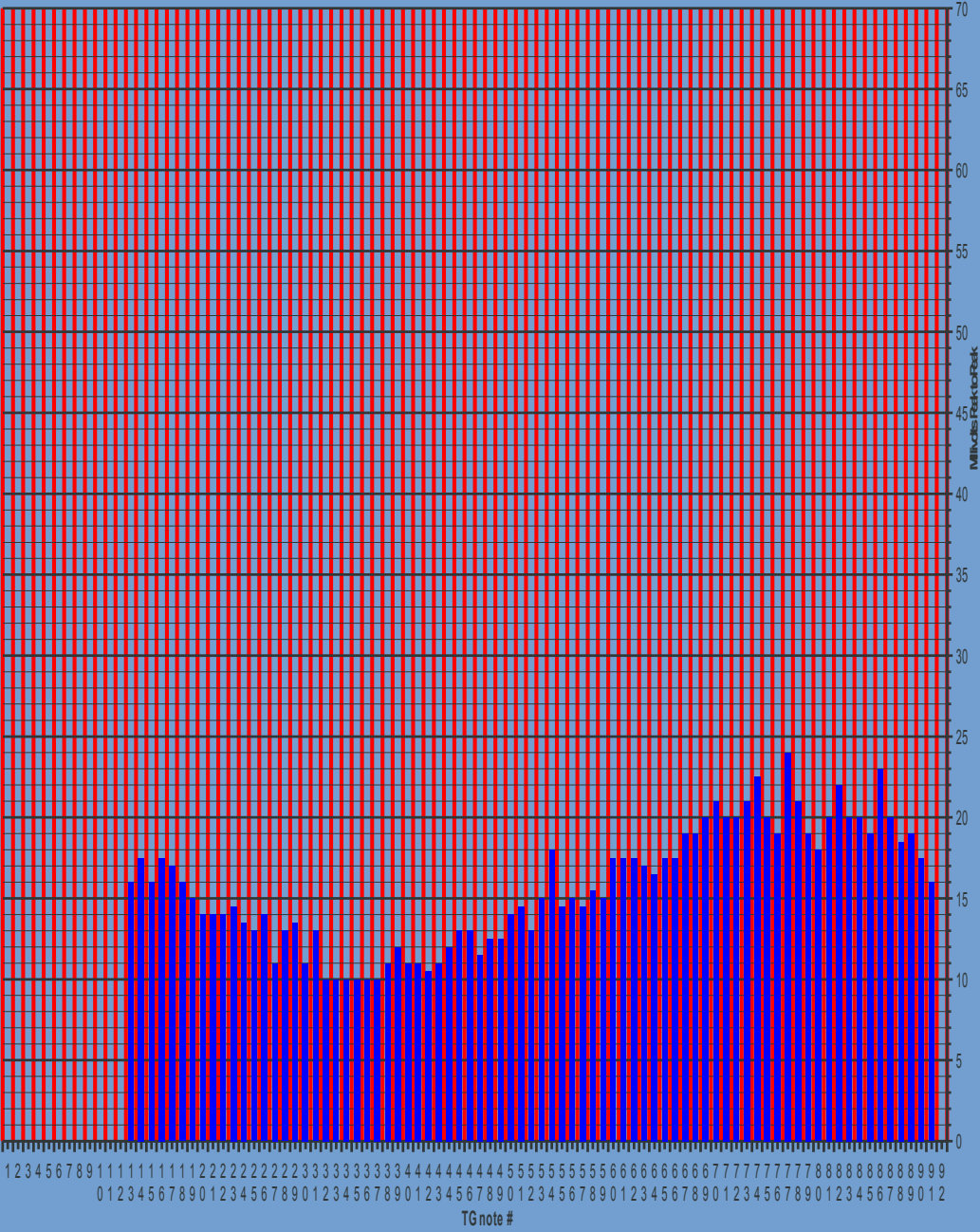
Dave' Hs recapped and recalibrated 1962 RT3. S/n 7525. TG recalibrated similar to Daniel F's 1966 A-100. "I am completely blown away by the versatility of the drawbars. The organ now has the wonderful sound heard on many 60's and 70's pop and rock albums"



Dave H's 1962 RT3 after the original recapped capacitors tray was removed and the red mylar capped tray from an L100 organ was installed. RC hum filters on the TG notes 37 to 48. "The organ sounds like a bad caricature of itself with the raised tones."



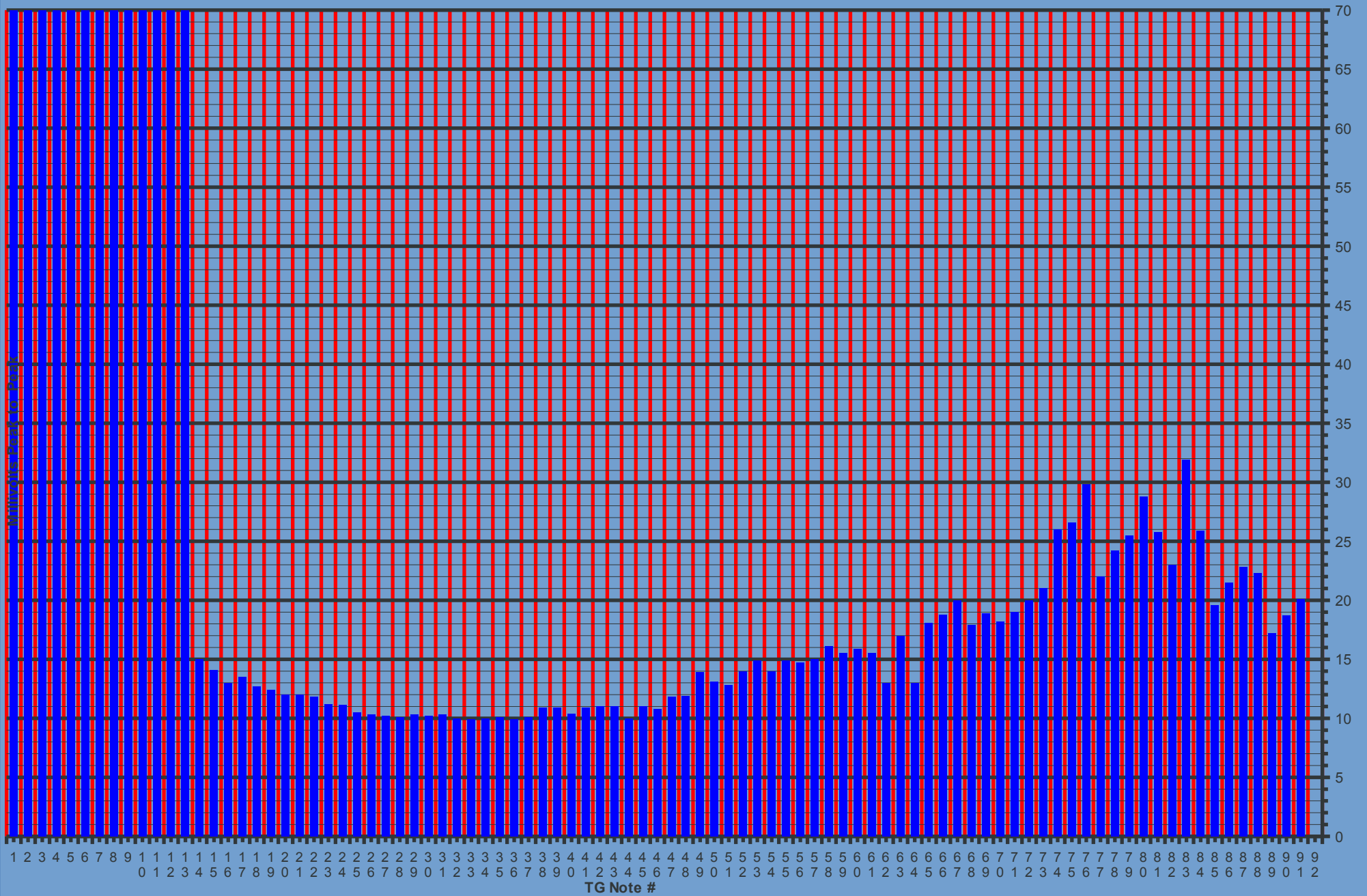
Dave H's recalibrated 1962 RT3 with the red mylar cap tray from an L100 organ. TG notes 13 to 48 recalibrated close to Sam's Bill Beer "Kansas" TG and the TG notes 49 to 91 similar to the 1972 B3 measured by Pat. May 5 2014 TG recalibration.



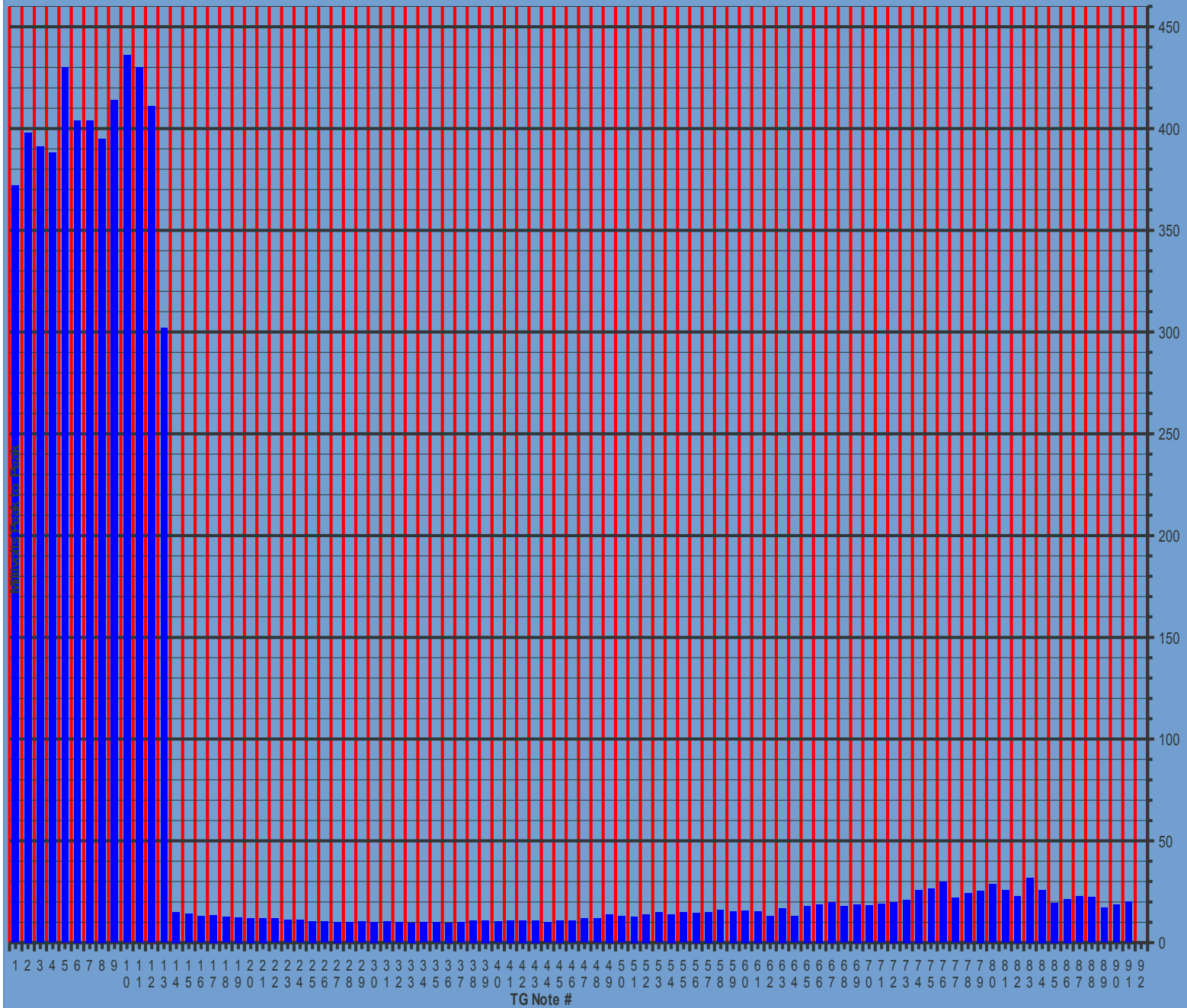
Ray's 1973 - 75 ? R-124 S/n 375184 . With red mylar caps. No bass foldback Sine wave bass TG notes 1 -12 "Bright sound". Measured by Kon.



Atlantis Studio 1971 Porta-B S/n C-144465 With red mylar caps. Bright sound . Measured by Kon.



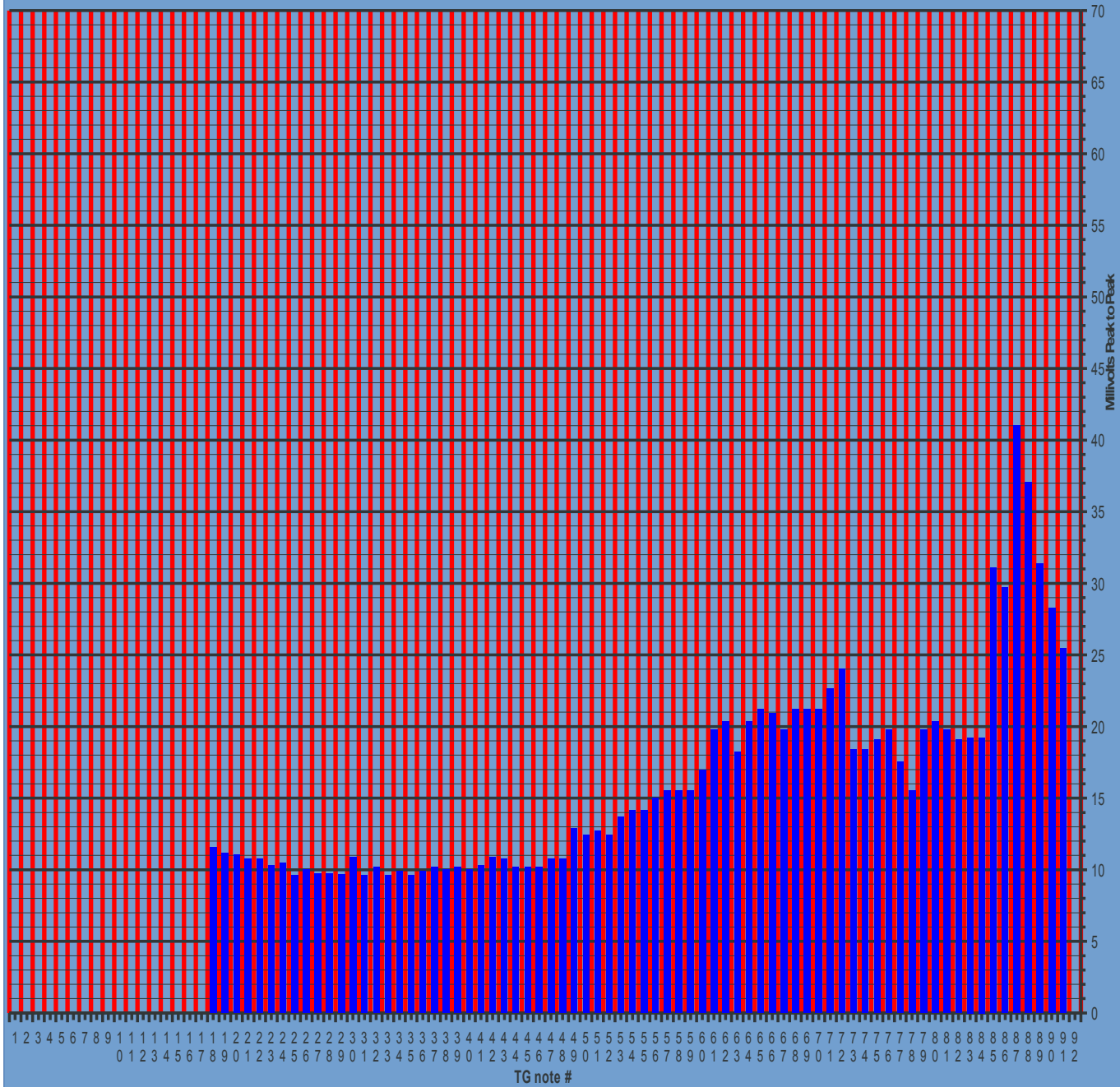
Atlantis Studio 1971 Porta-B S/n C-144465. Complex waveform bass TG notes 1 to 13 measured with the Velleman HPS-10 digital oscilloscope by Kon.



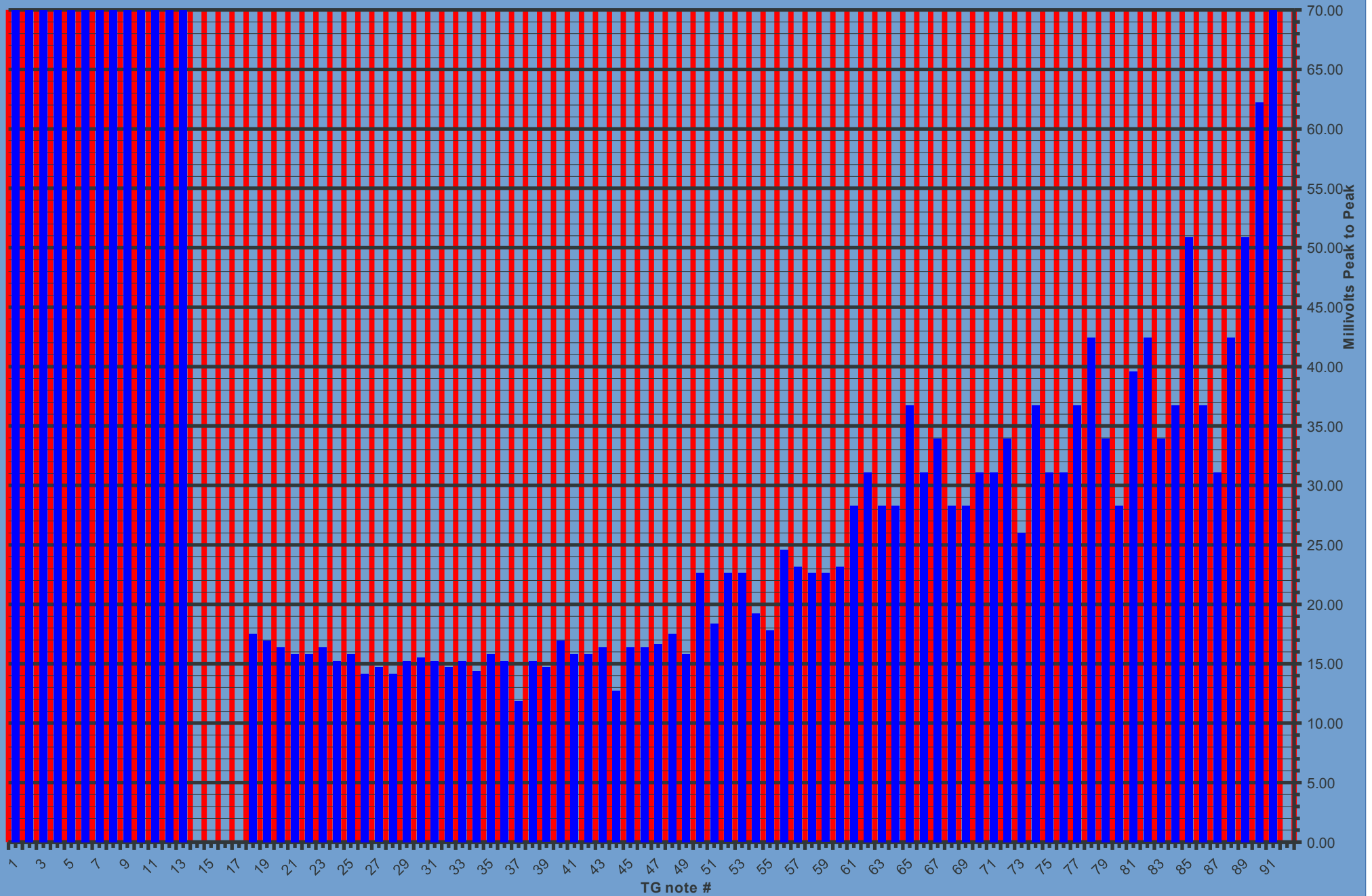
Dave H's 1966-68 red mylar capped L-100. TG not in organ.



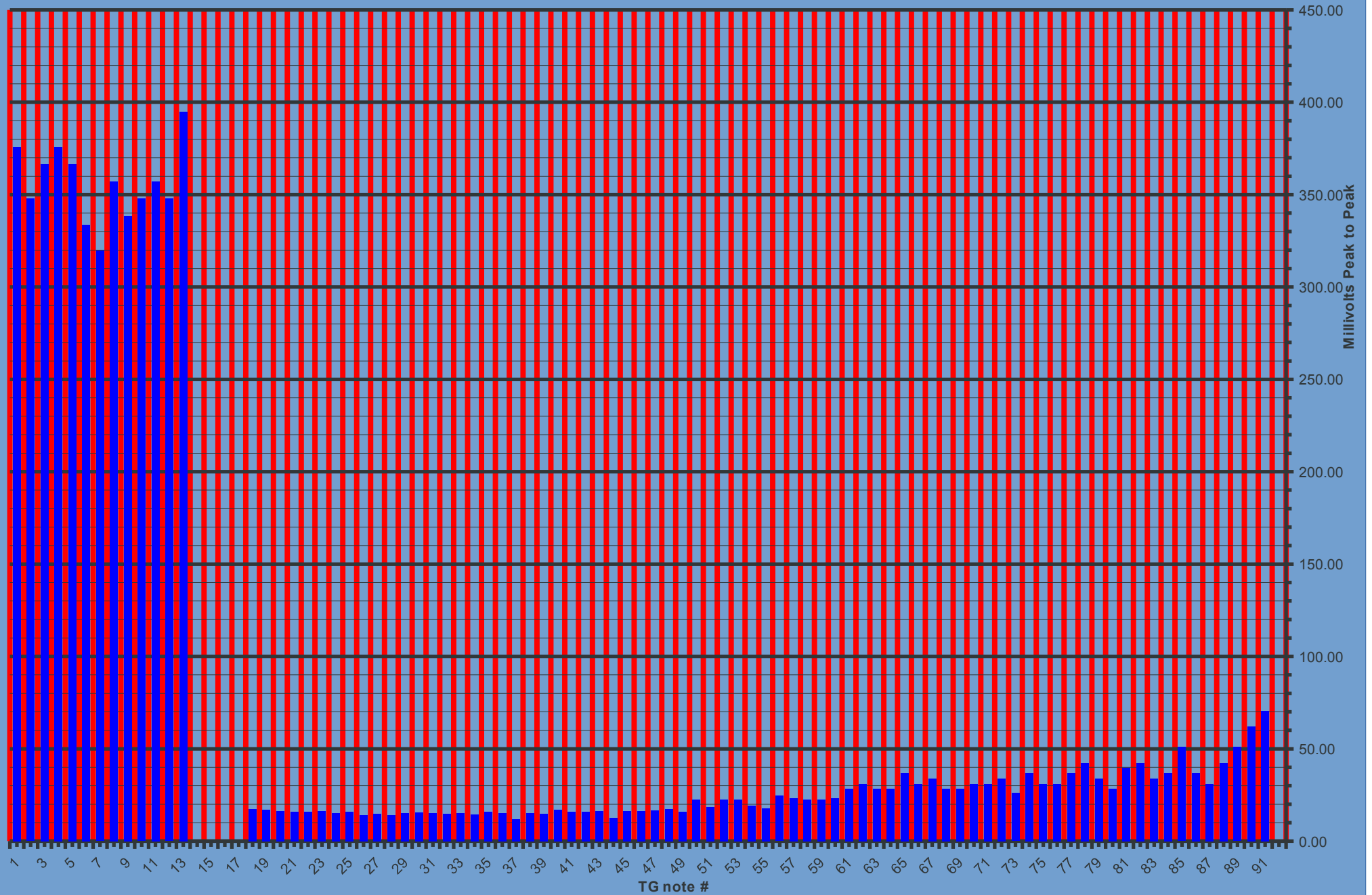
Sergio's red mylar capped 1967 L-100. S/n 94488 Measured by Sergio with a Leader 192A millivolt meter in mV RMS and the mV RMS levels subsequently converted to mVpp by Kon.



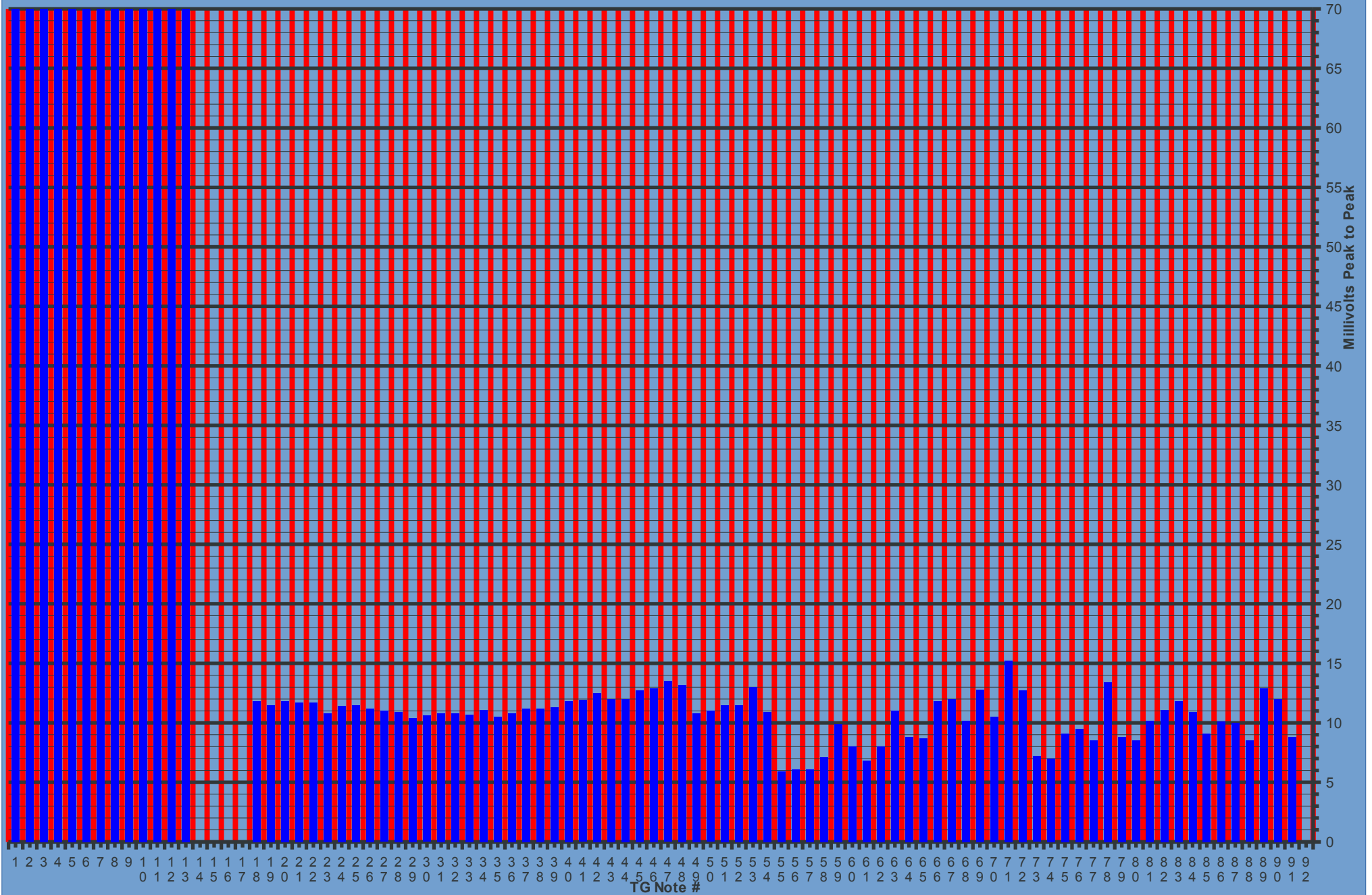
Gino's red mylar capped c.1970 L-100. mVRMS levels converted to mVPP by Kon, 9 May 2013



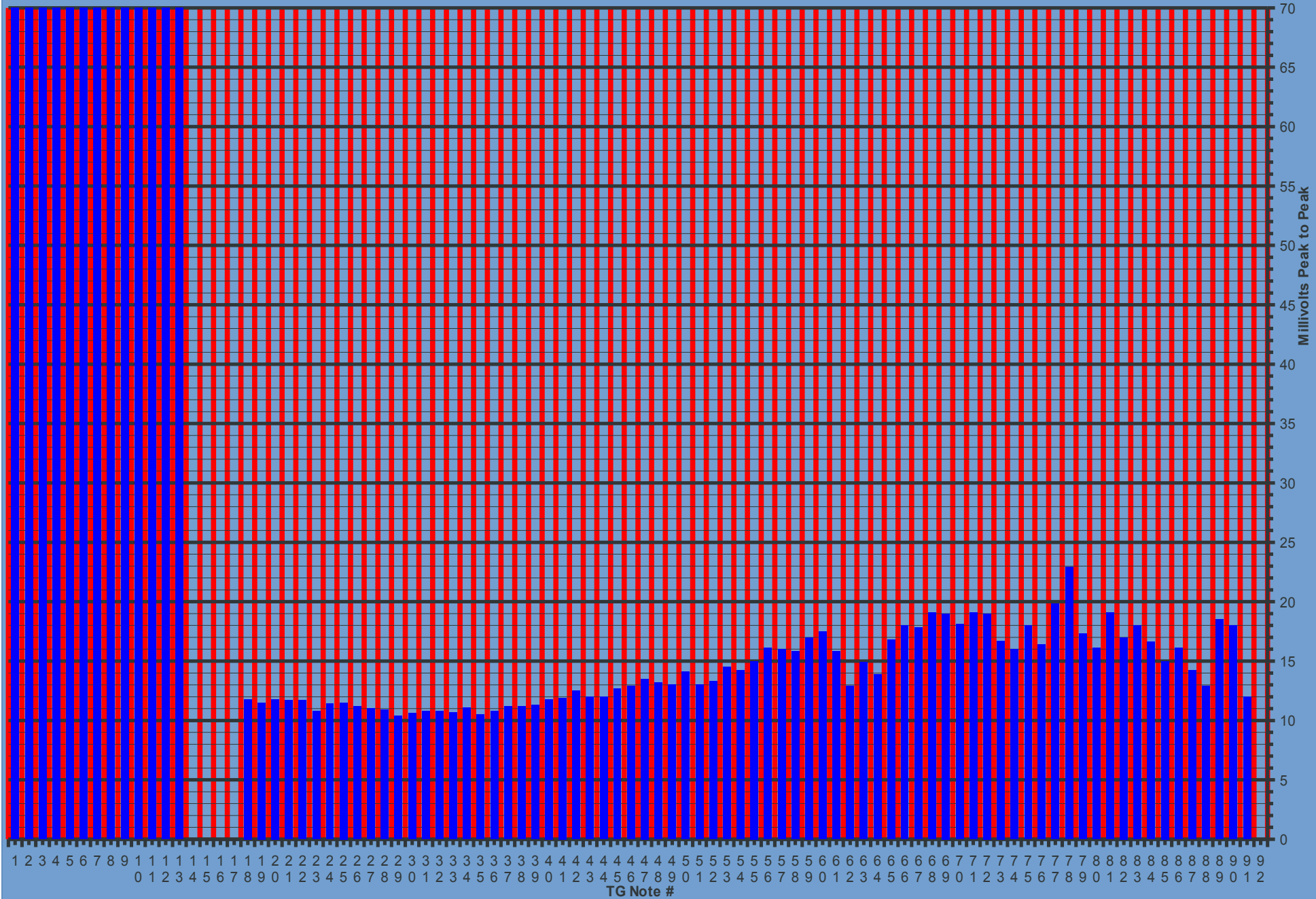
Gino's red mylar capped c.1970 L-100. mVRMS levels converted to mVPP by Kon, 9 May 2013



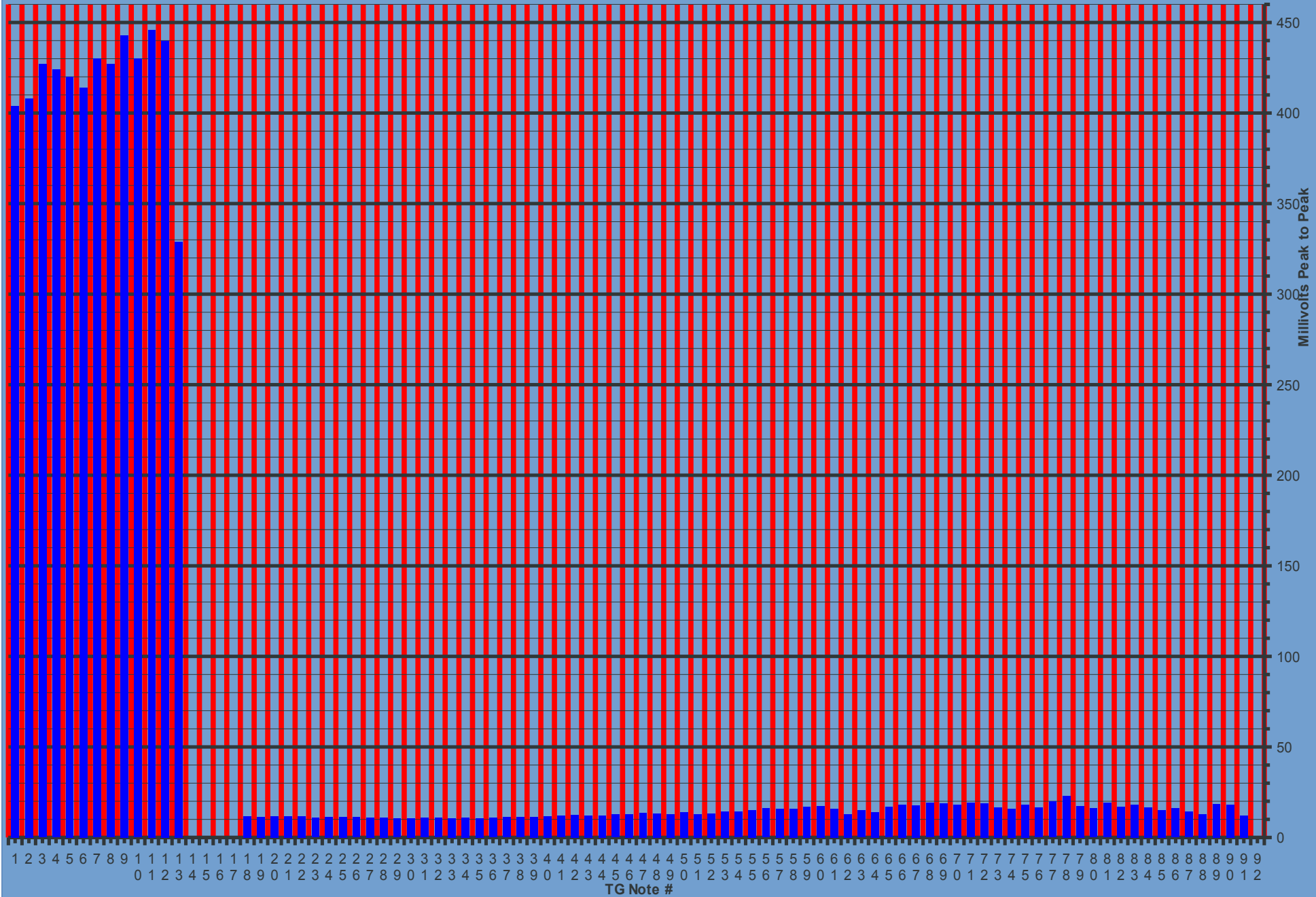
Kon's 1963 L-102 with wax capacitors. S/n 34875. Warm mellow sound. Measured by Kon.



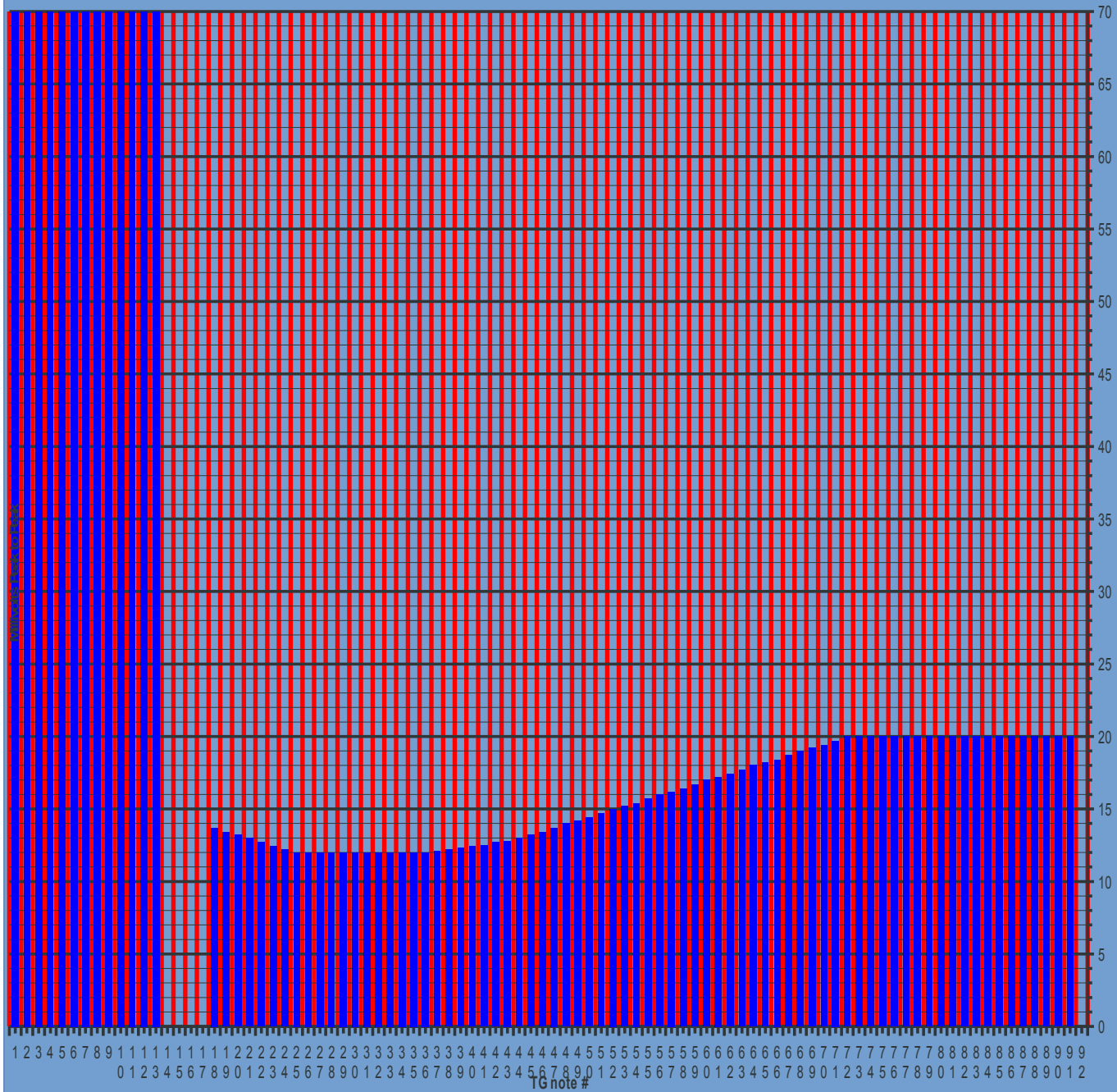
Kon's recapped 1963 L-102. S/n 34875. TG recapped with MKT metallized polyester capacitors by Kon on 31 March 2010.



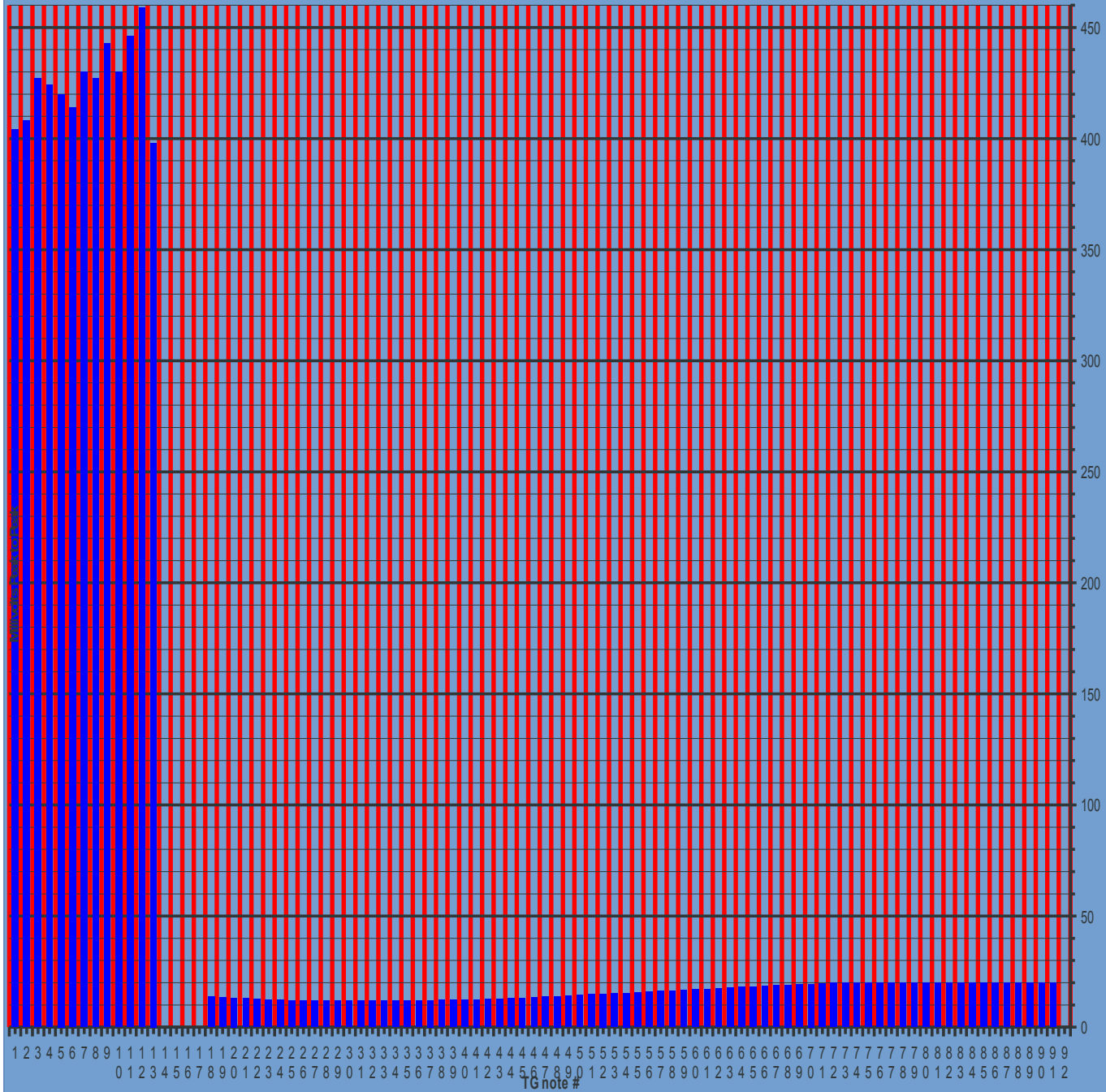
Kon's recapped 1963 L-102. S/n 34875. TG recapped with MKT metallized polyester capacitors by Kon on 31 March 2010.



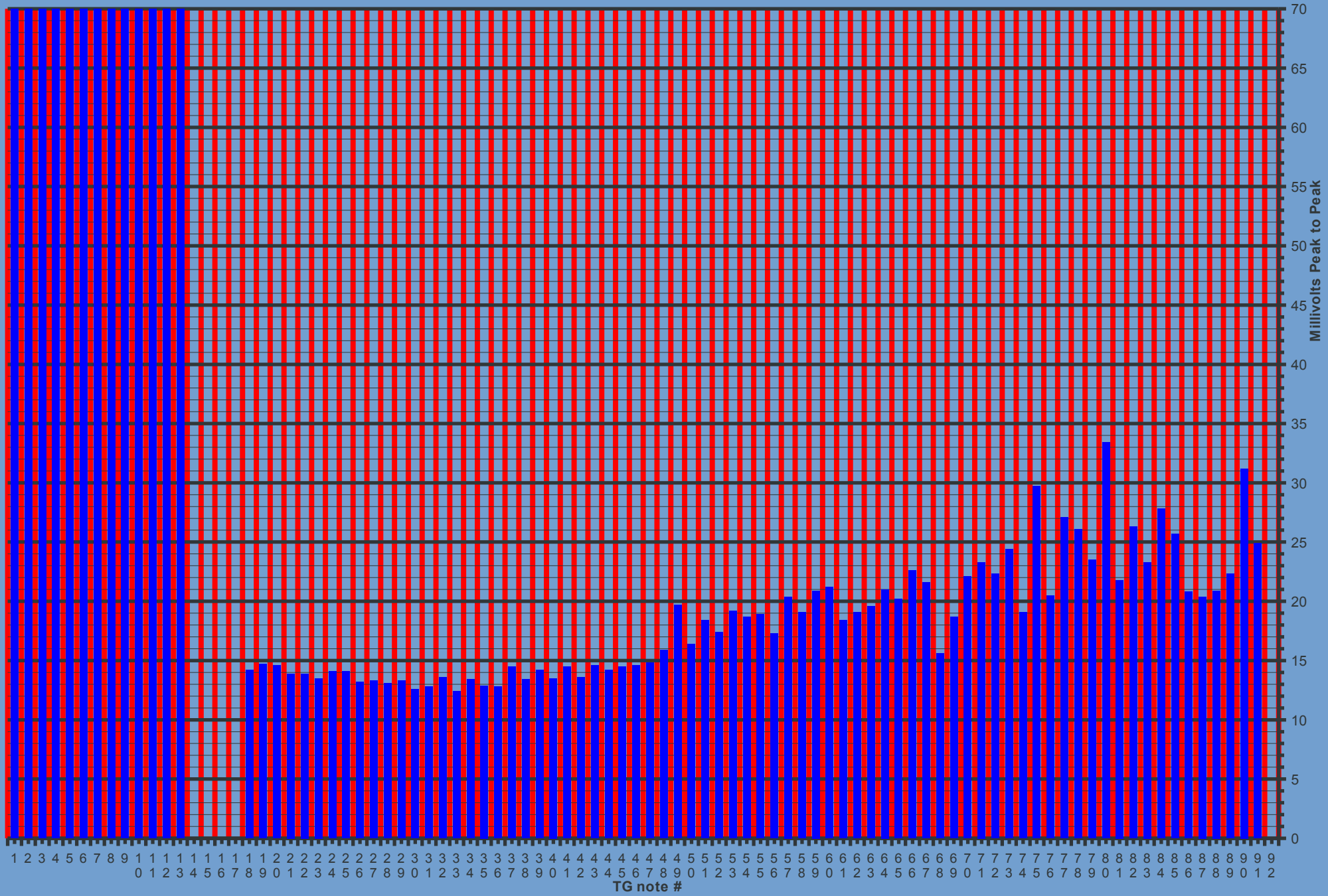
Kon's recapped and recalibrated 1963 L-102. s/n 34875. TG recalibrated by Kon on 9 April 2010. "Warm, sweet and clear sound. Throaty overdrive sounds, good for Progressive Rock".



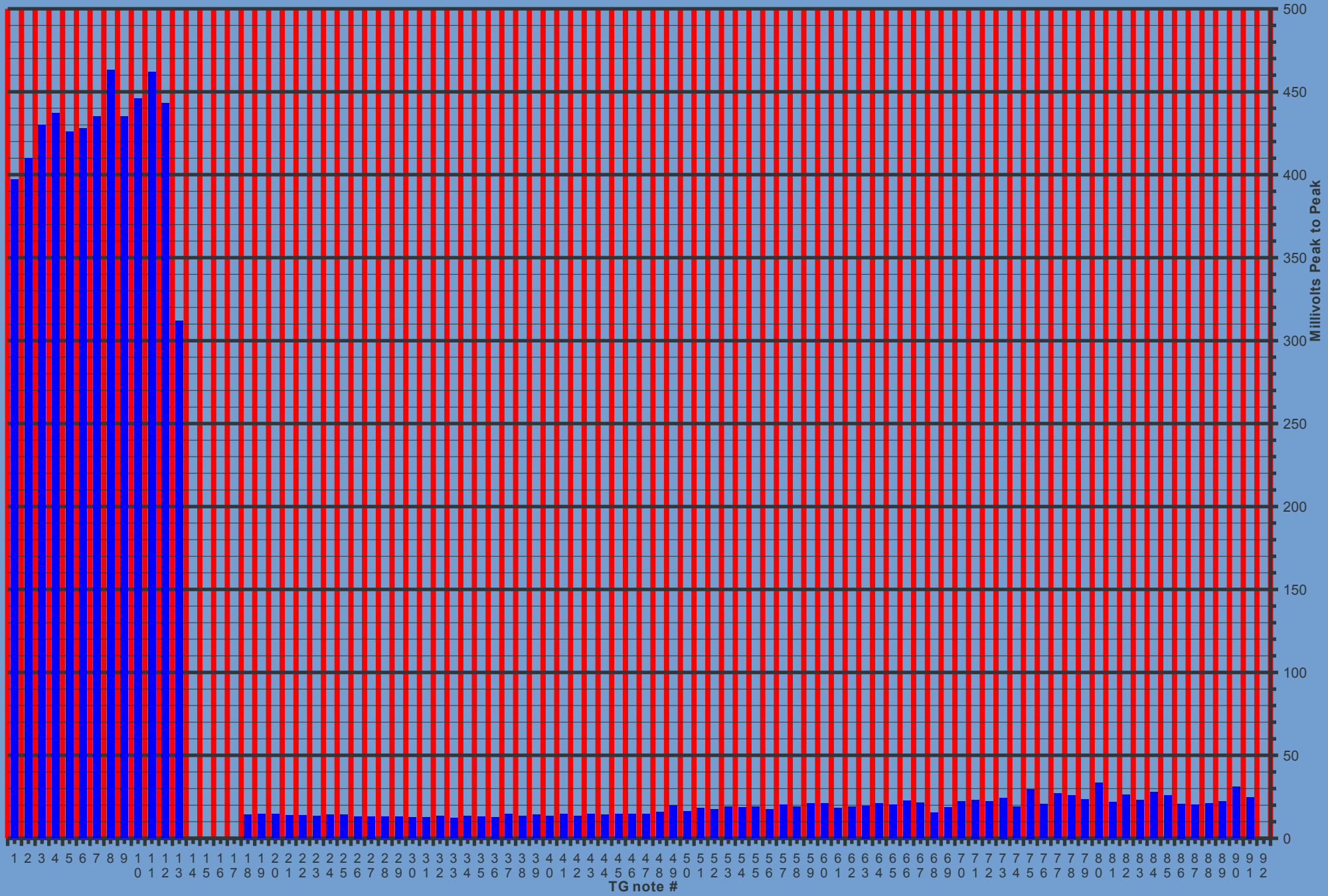
Kon's recapped and recalibrated 1963 L-102. s/n 34875. TG recalibrated by Kon on 9 April 2010. "Warm, sweet and clear sound. Throaty overdrive sounds, good for Progressive Rock".



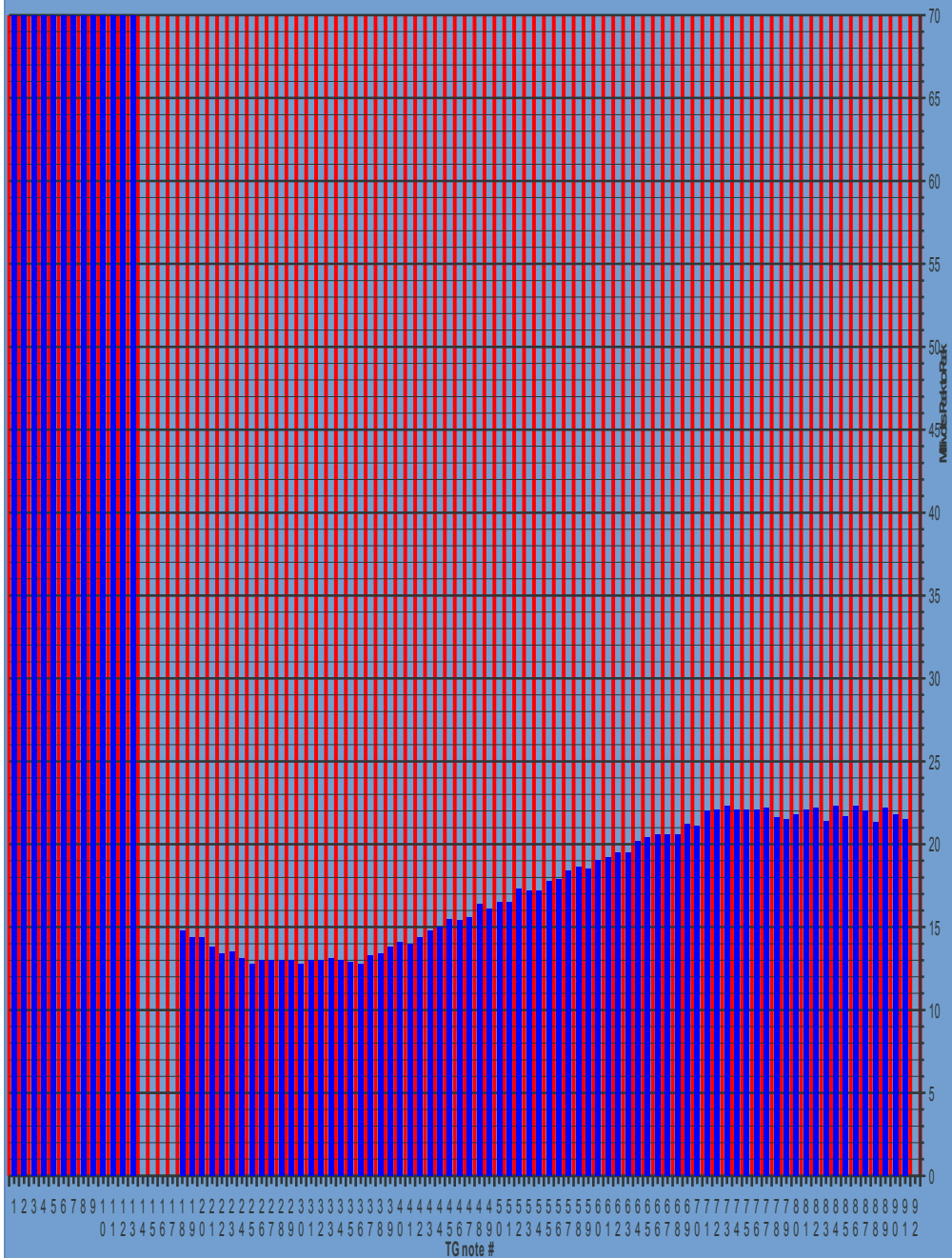
Brian's red mylar capped 1966 L-111 . S/n 72033 . Original TG curve.



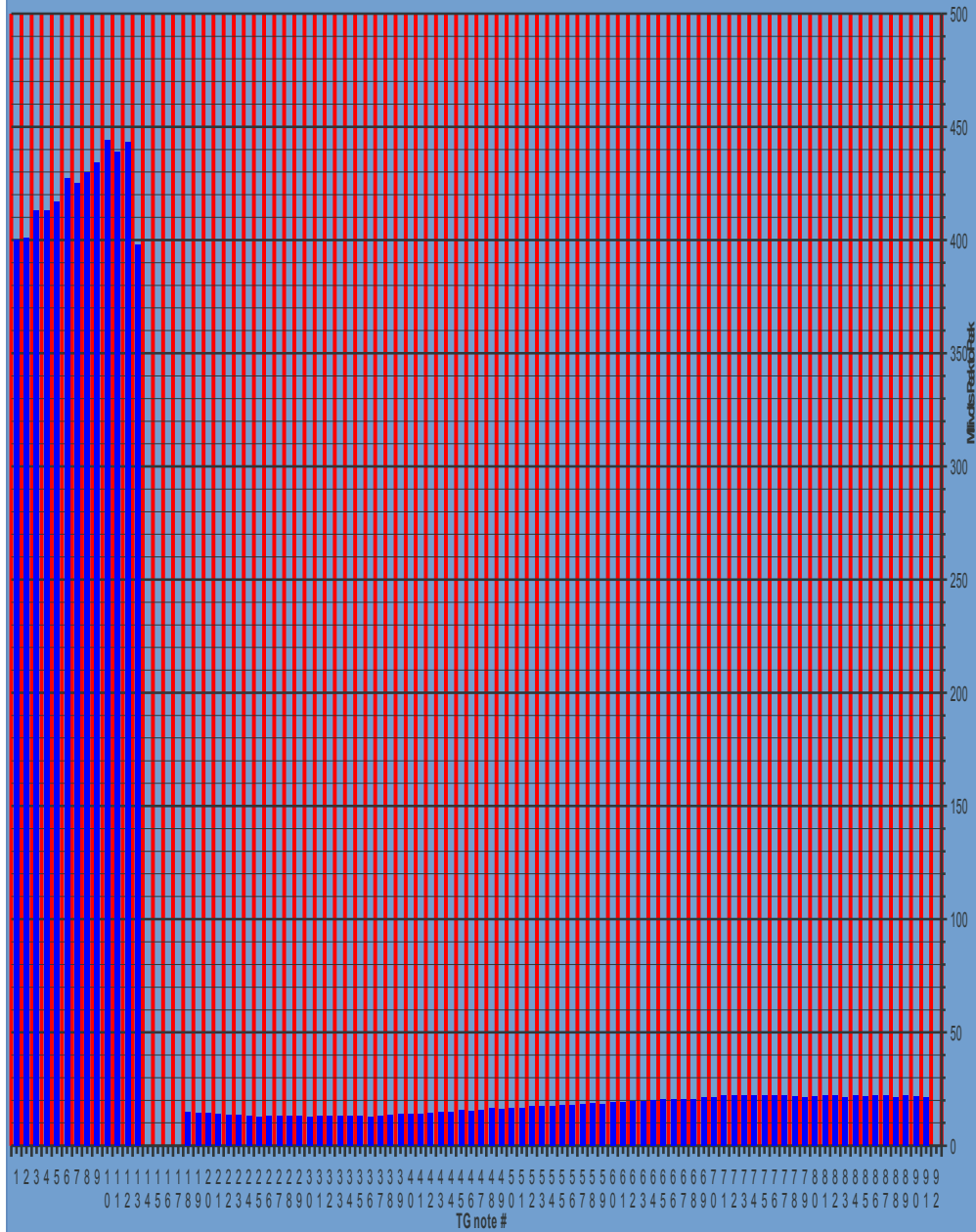
Brian's red mylar capped 1966 L-111 . S/n 72033 . Original TG curve.



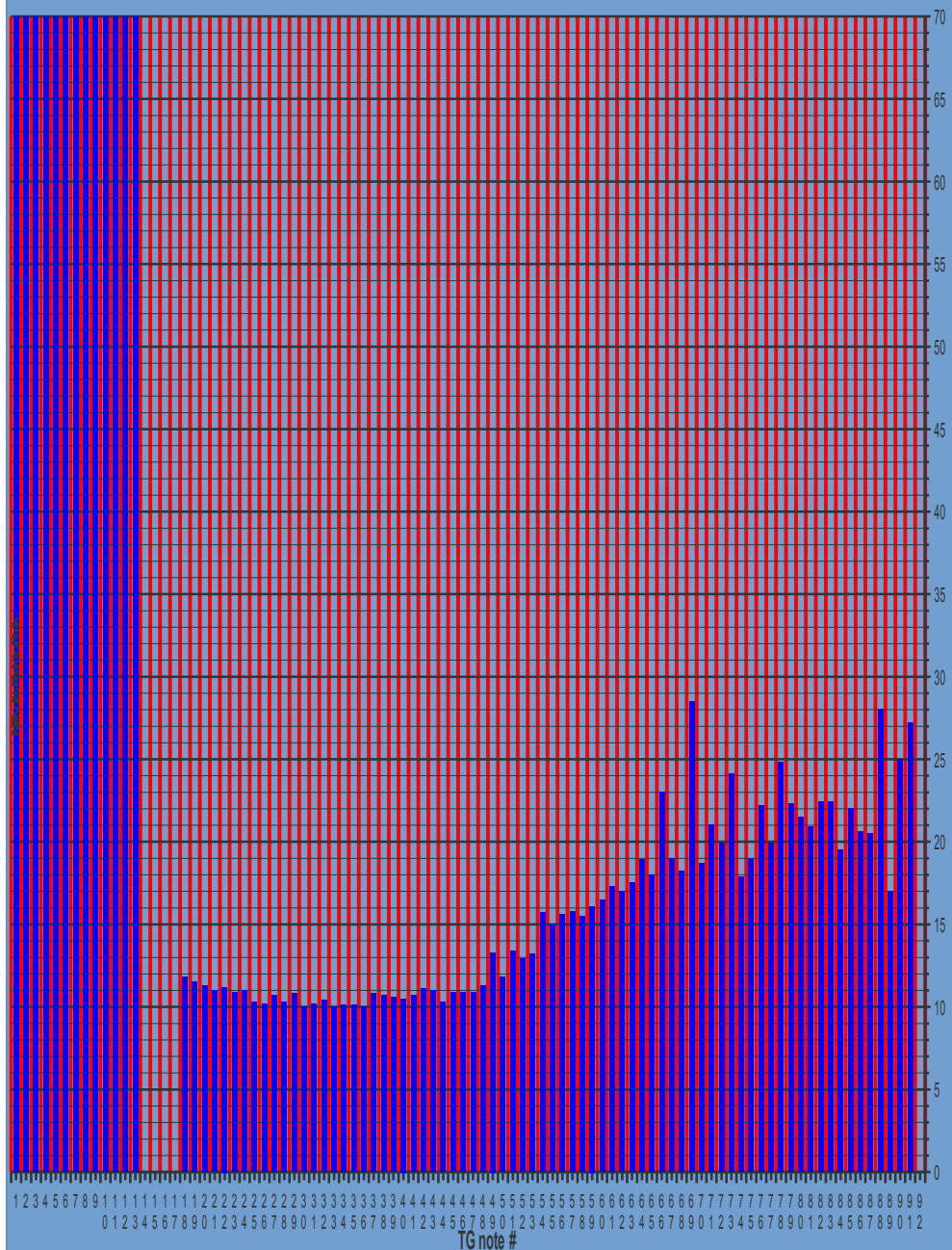
Brian A's 1966 red mylar capped 1966 L-111. TG recalibrated by Brian on 3 November 2010 to be similar to Kon's suggested smoothed out levels. "It sounds really good. The TG recalibration made a big difference in the sound. The overall balance is great!"



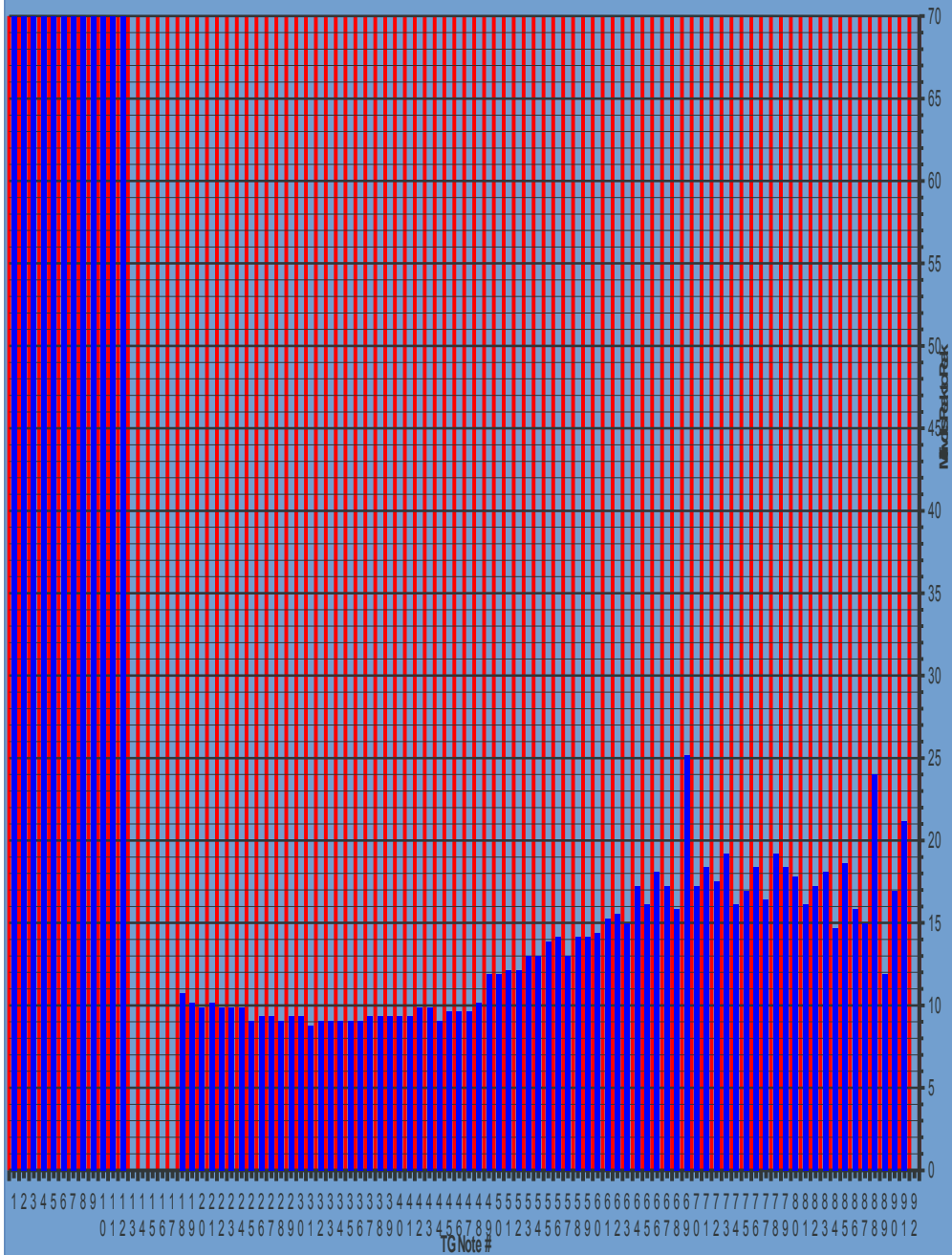
Brian A's 1966 red mylar capped 1966 L-111. TG recalibrated by Brian on 3 November 2010 to be similar to Kon's suggested smoothed out levels. "It sounds really good. The TG recalibration made a big difference in the sound. The overall balance is great!"



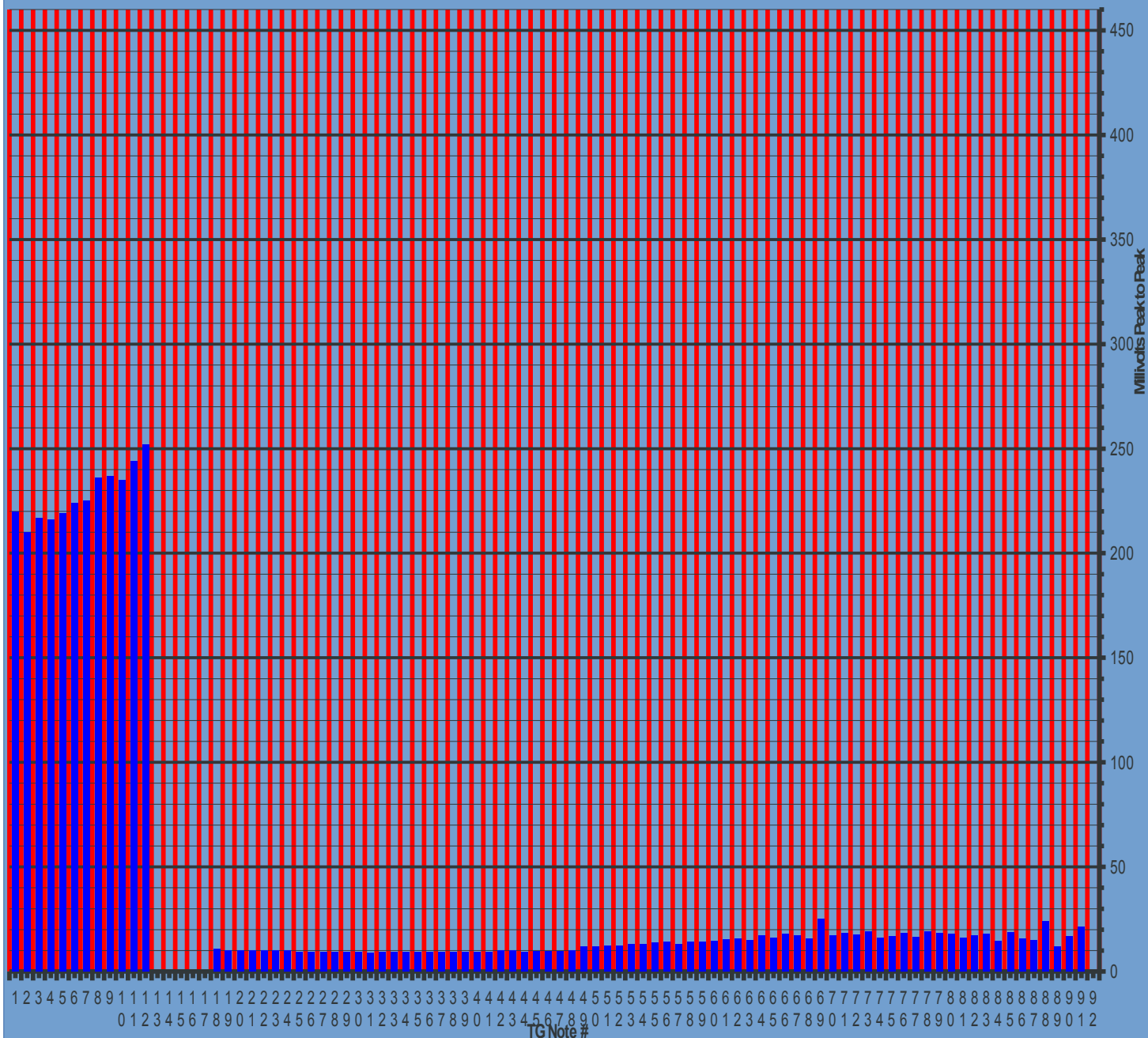
Atlantis Studio 1966-68 ? L-111 with red mylar caps but no R/C filters. S/n 86696. TG notes 1 -13 measured with Velleman HPS-10 digital oscilloscope and the TG notes 18 to 91 with analog mVpp meter by Kon. Sweet clean sound , throaty overdrive sound.



Atlantis Studio 1966-68 ? L-111 with red mylar caps but no R/C filters. S/n 86696. Measured with TES 2322 digital multimeter by Kon. H-AO-43-3 amplifier. Sweet clean sound. Throaty raunchy overdrive sound. mV RMS levels converted to mVpp by Kon.



Atlantis Studio 1966-68 ? L-111 S/n 86696. Measured with TES 2322 digital multimeter and the mV RMS levels converted to mVpp by Kon.



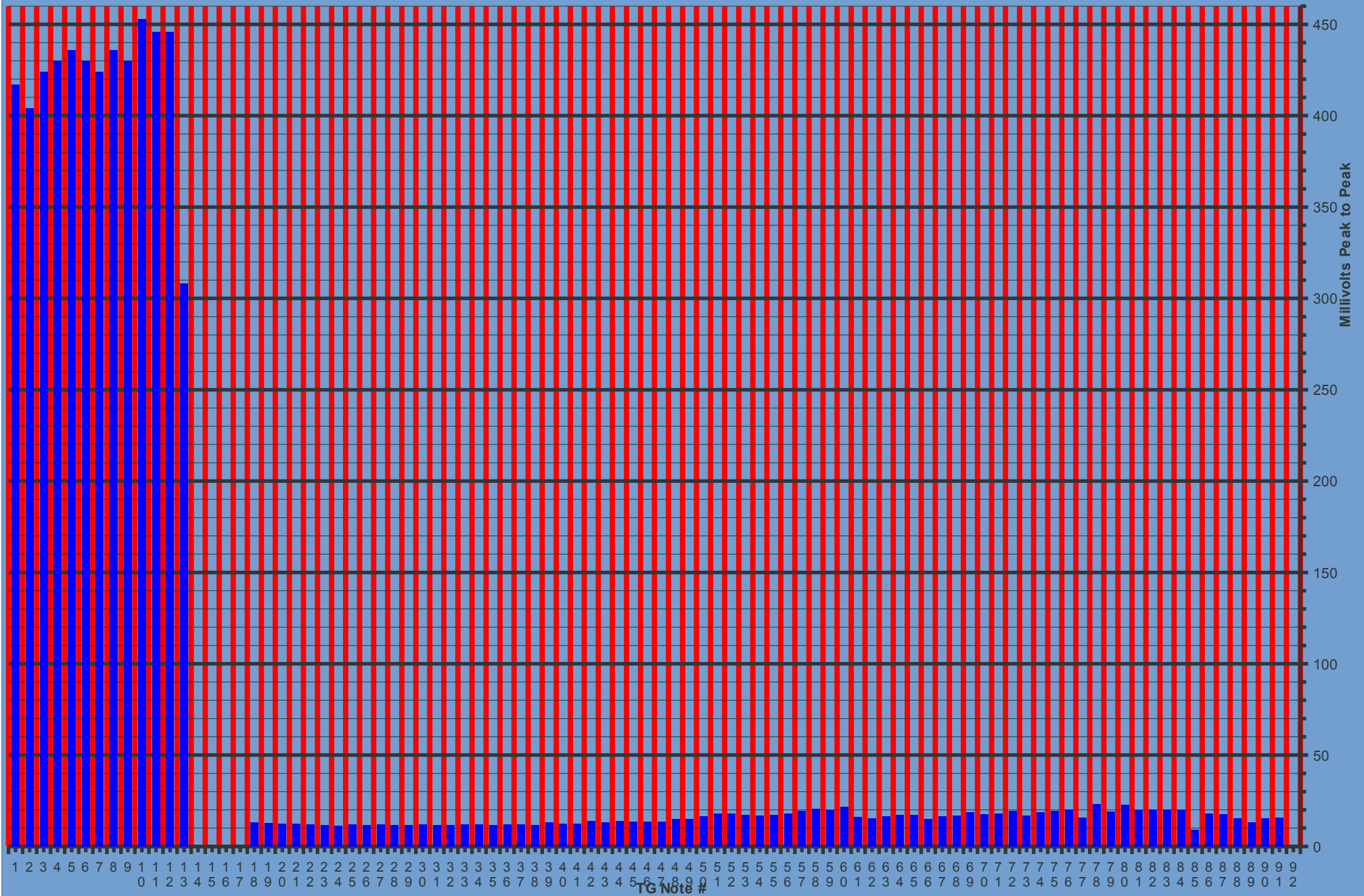
Millivolts Peak to Peak

TG Note #

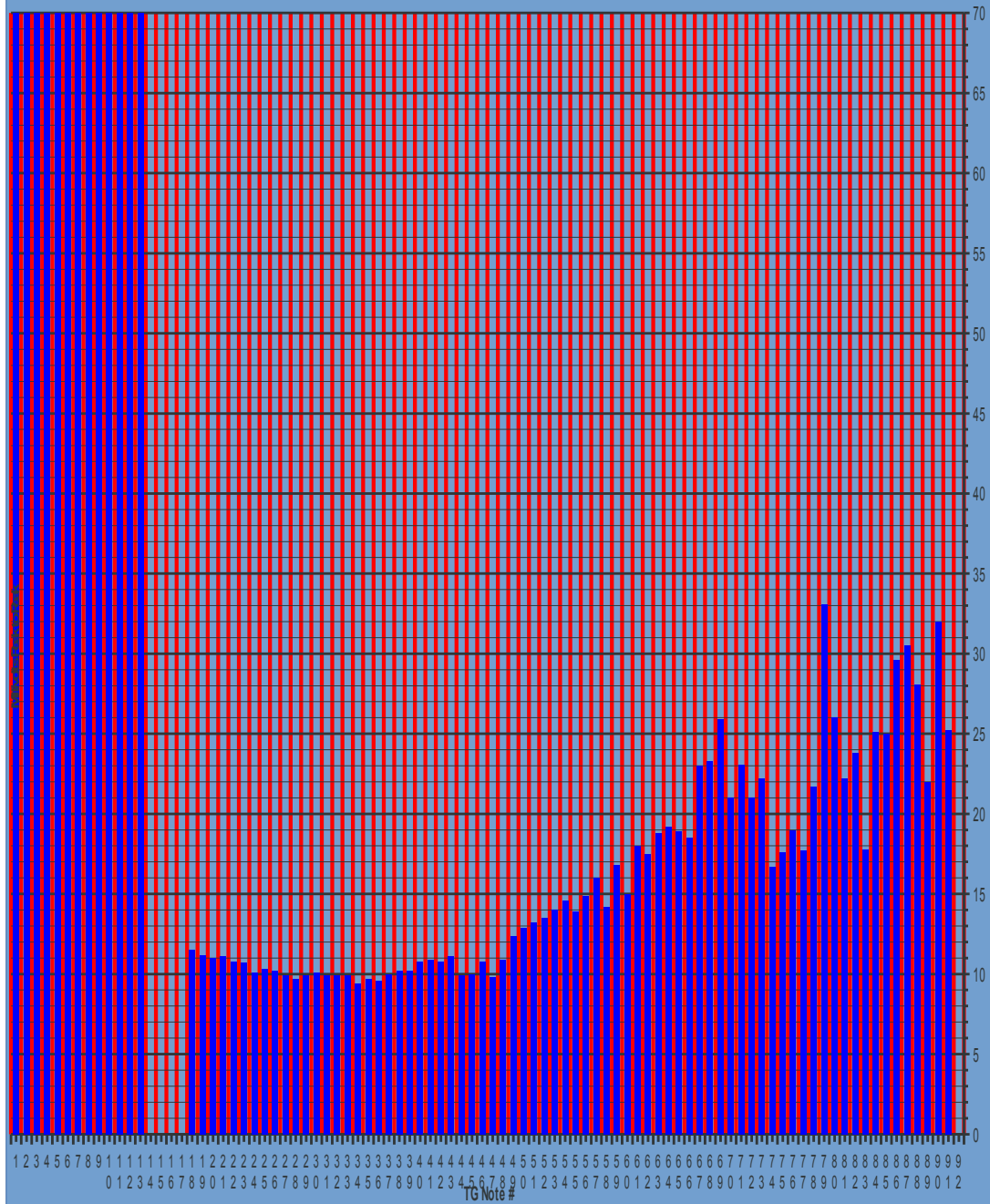
Daniel F's 1965 red mylar capped L-122. S/n 61511. Measured by Kon 24 April 2008.



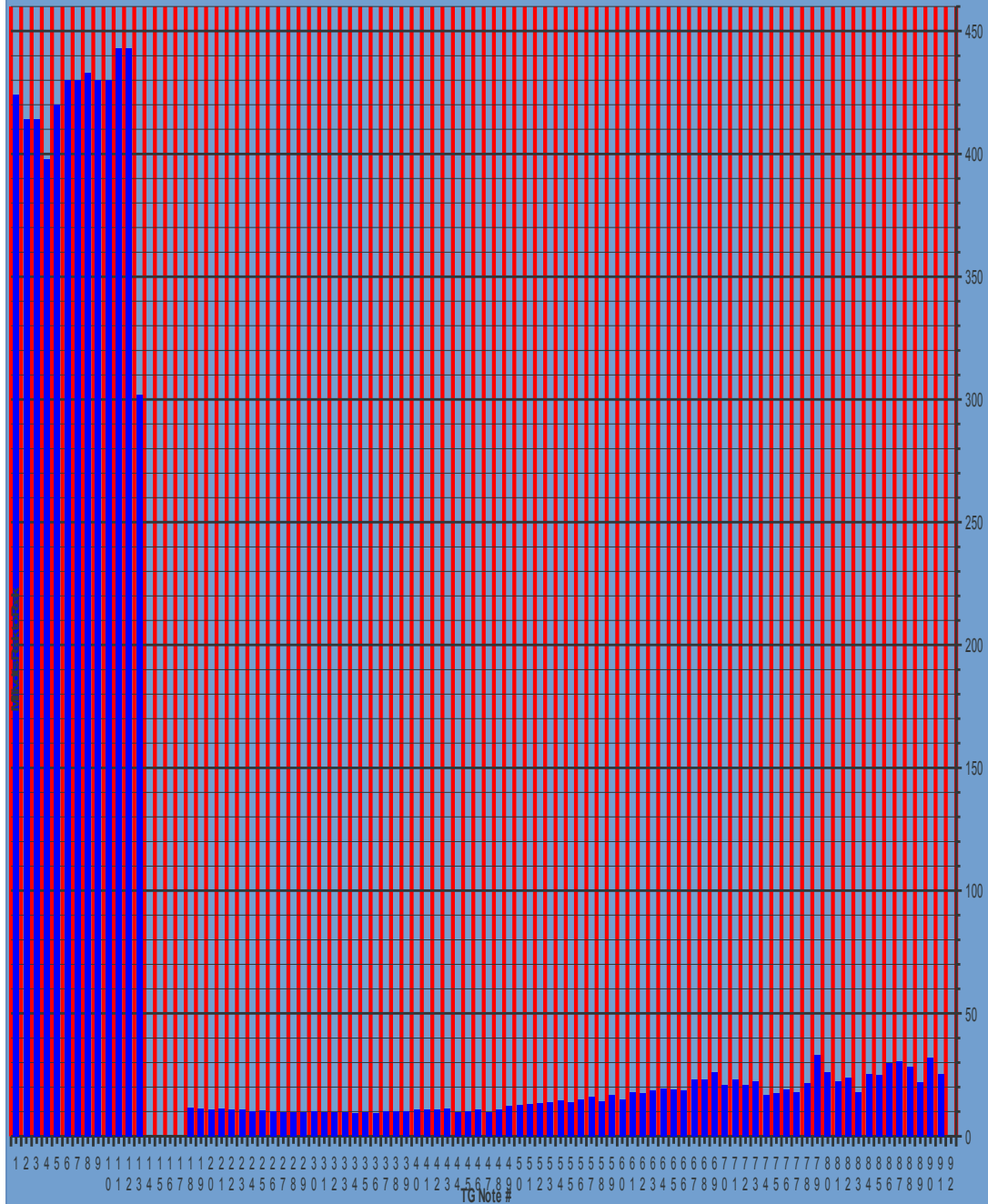
Daniel F's 1965 red mylar capped L-122. S/n 61511. Measured by Kon 24 April 2008.



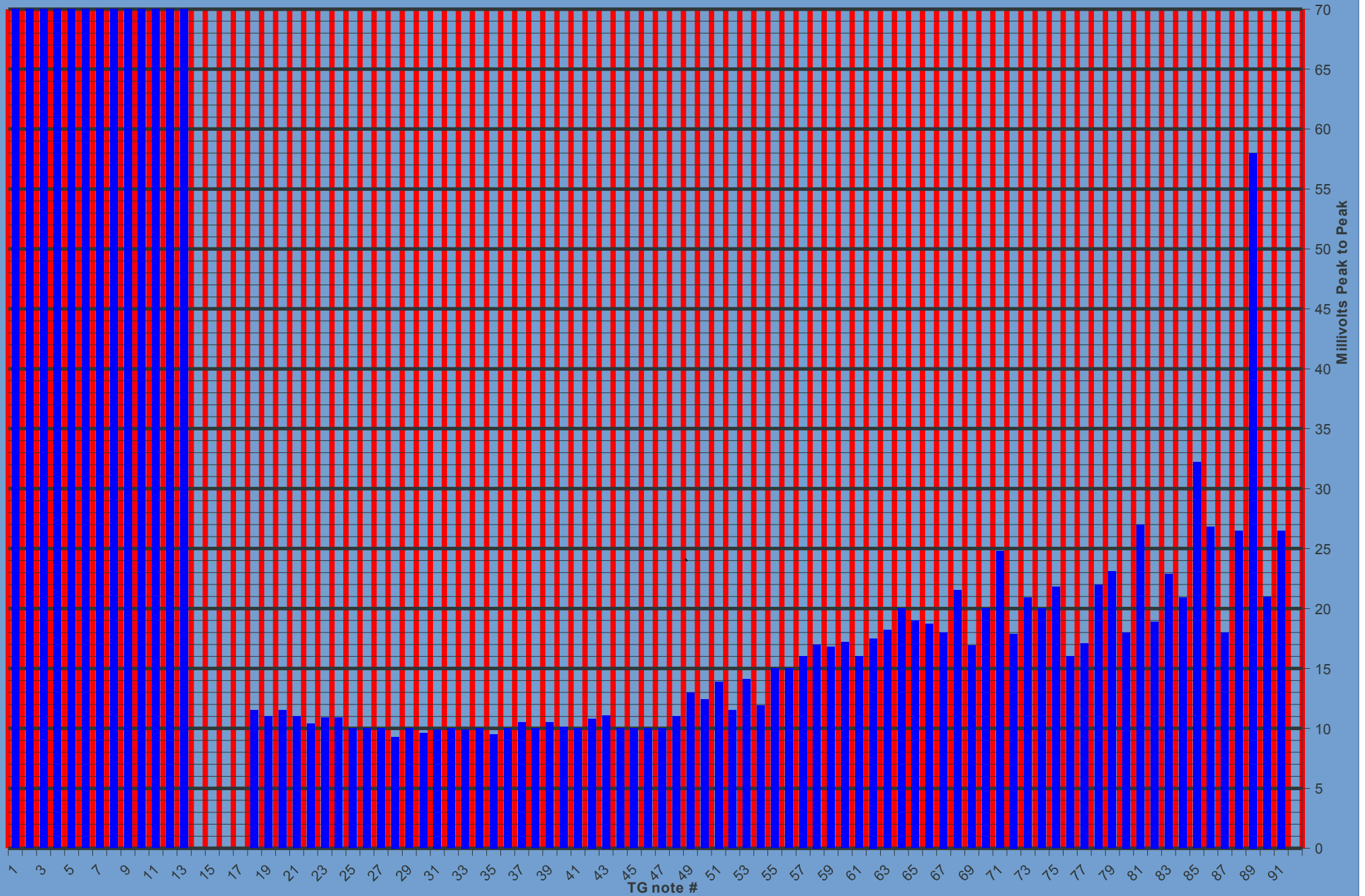
Kon's beat up 1968 L-143 ? with red mylar capacitors but no resistor / capacitor hum filters on the TG notes 37 to 48. Later era larger HAMMOND logo on the middle of the upper manual black strip. Bright sound. Measured by Kon



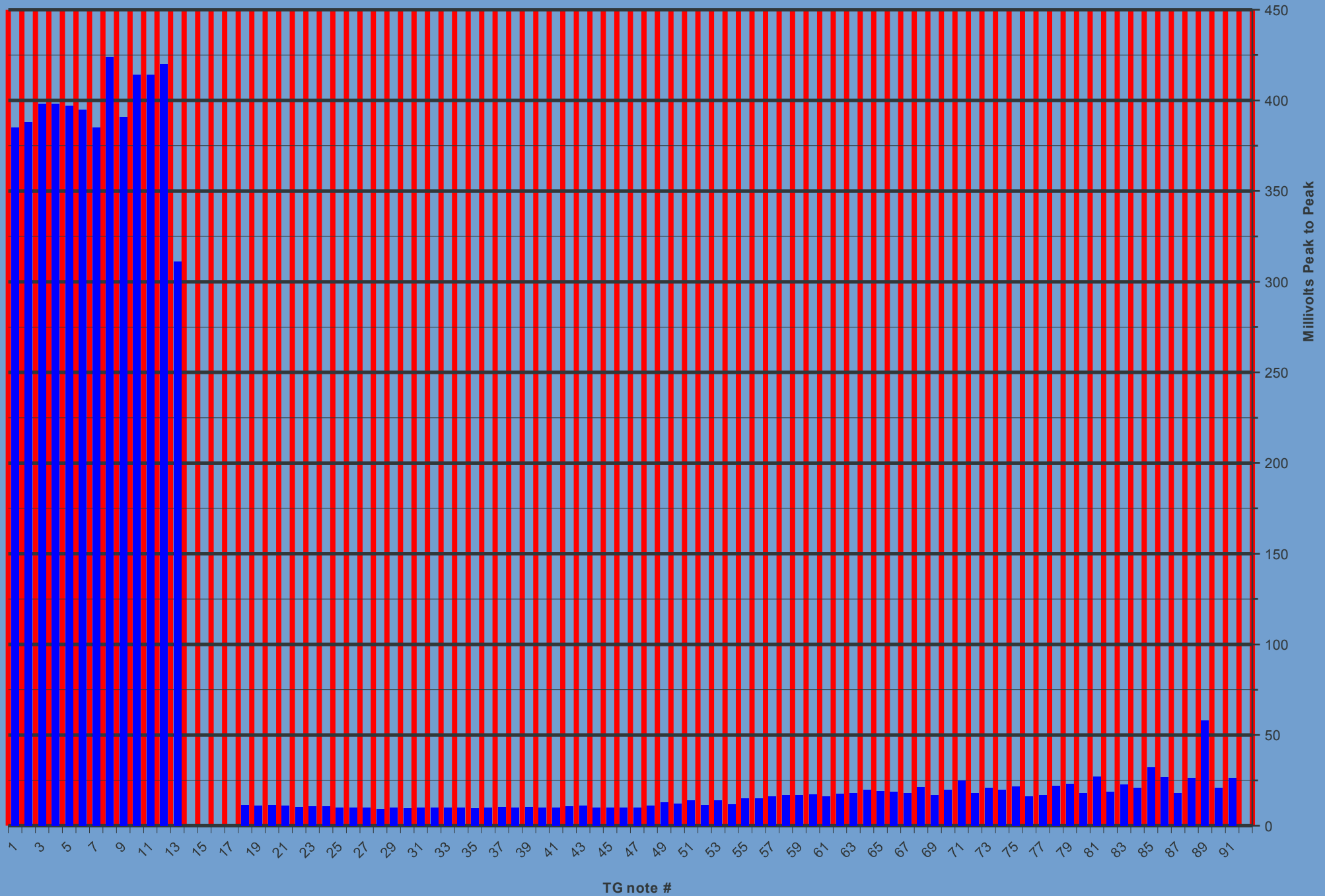
Kon's beat up 1968 L-143 ? with red mylar capacitors but no resistor / capacitor hum filters on the TG notes 37 to 48. Later era larger HAMMOND logo on the middle of the upper manual black strip. Bright sound. Measured by Kon



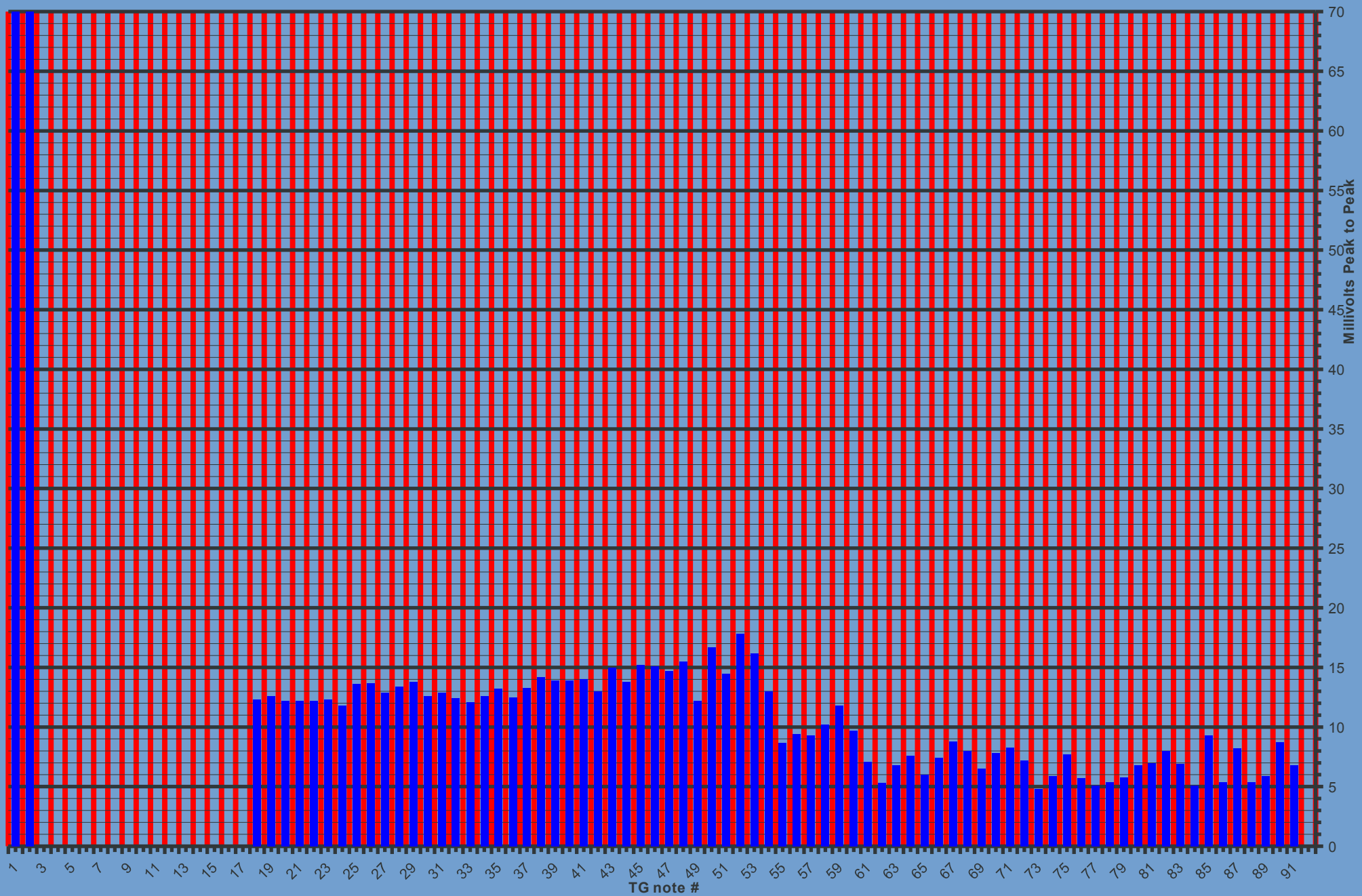
Kon's red mylar capped 1969 L-143? chop organ. S/n ?. Measured by Kon, 26 March 2013.



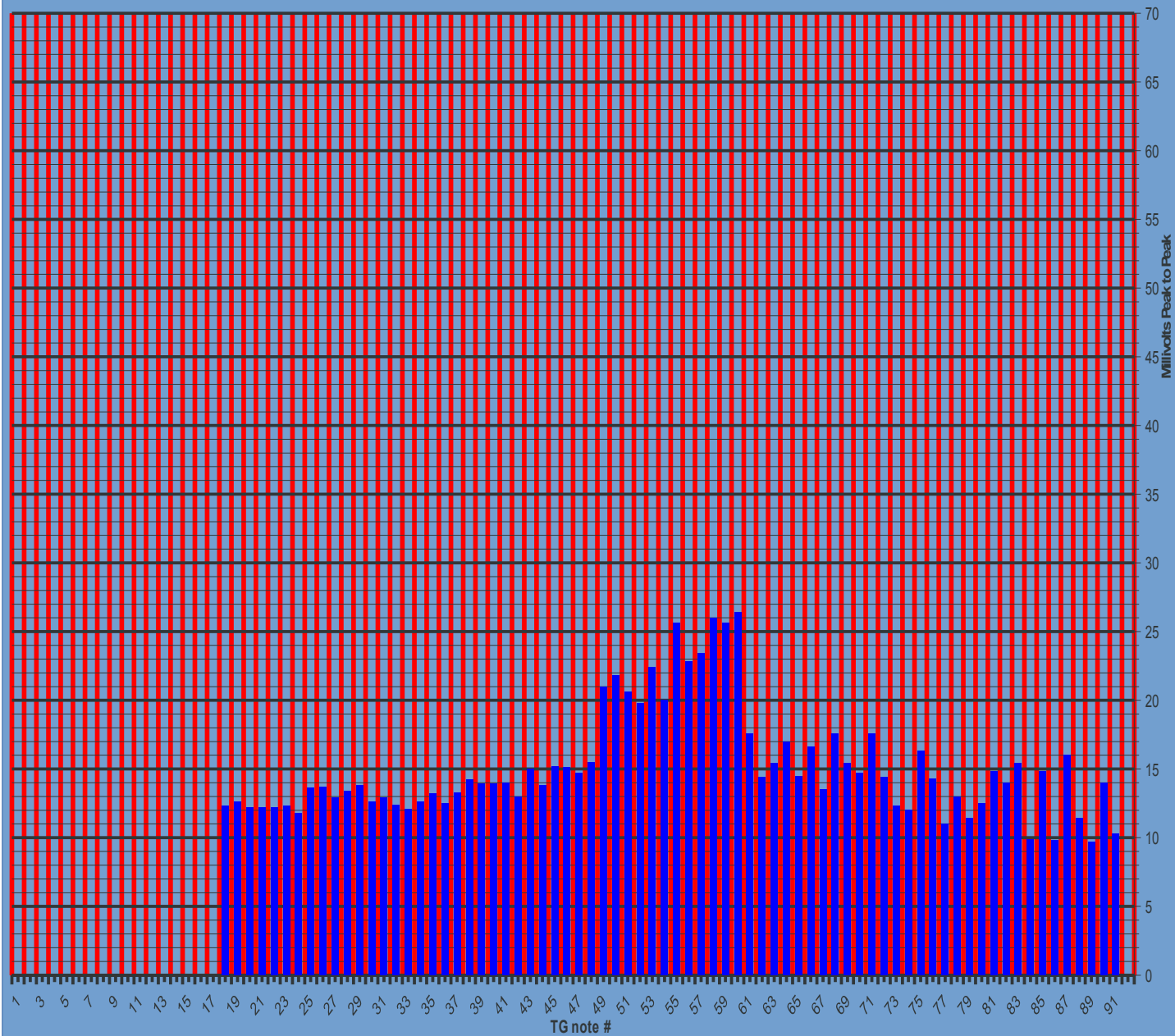
Kon's red mylar capped 1969 L-143? chop organ. S/n ?. Measured by Kon, 26 March 2013.



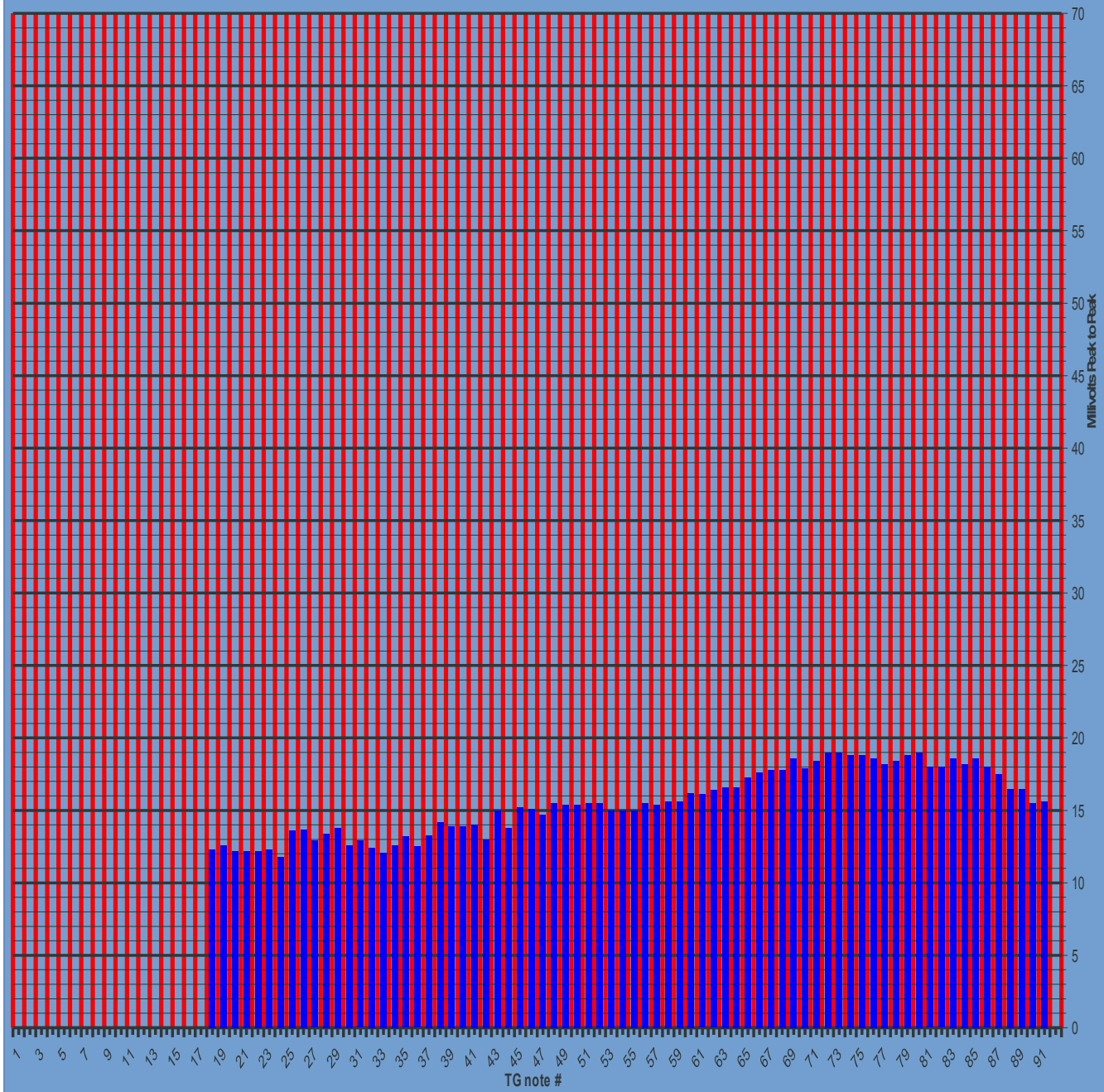
Christian's wax capped 1955 M3. S/n 58280. "The organ was very very dull sounding with the old wax caps"



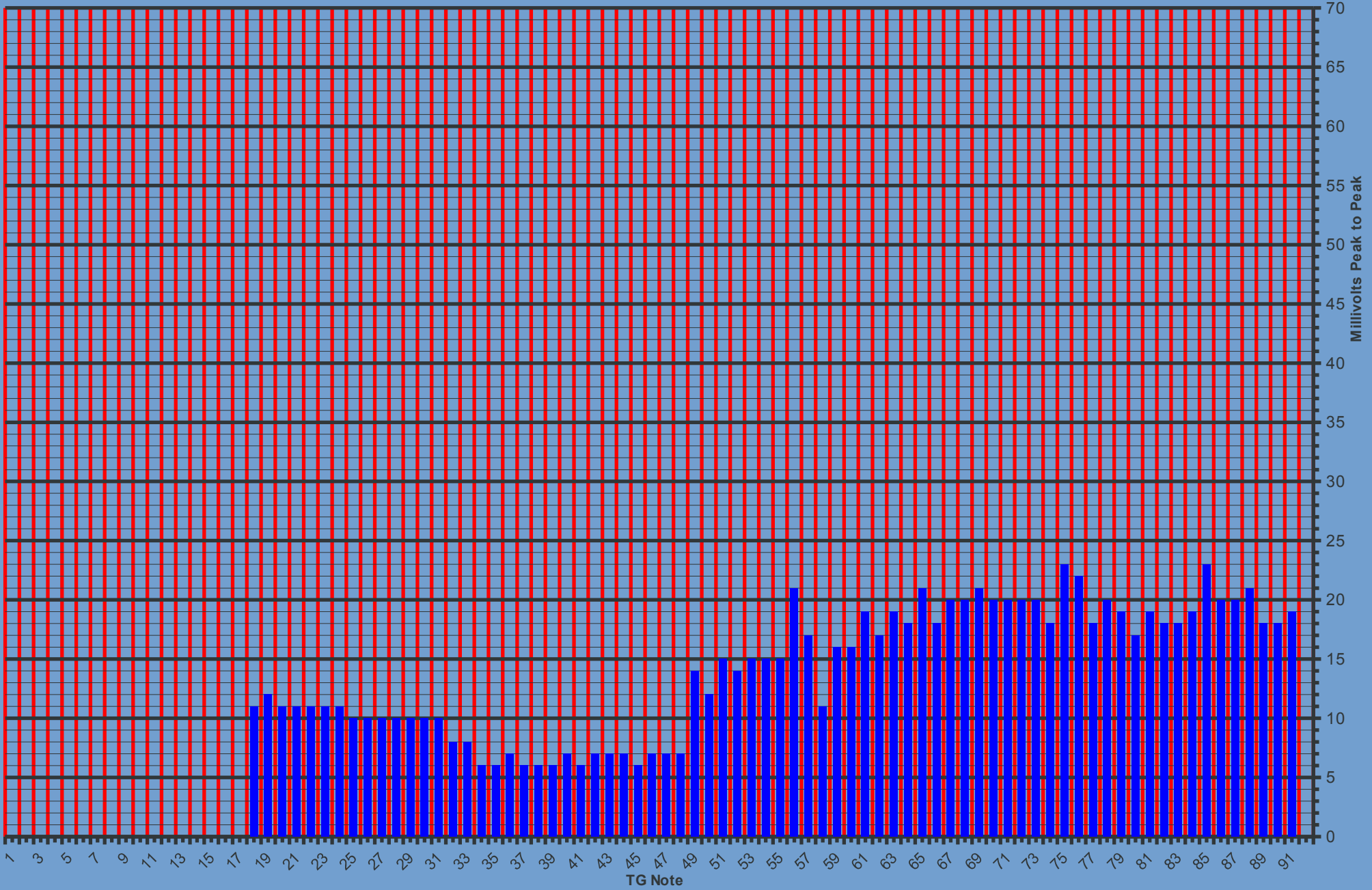
Christian's recapped 1955 M3. S/n 58280. "I used orange drops 225p, measuring each tone for the resonance peak (as a function of capacitance). After that I recalibrated."



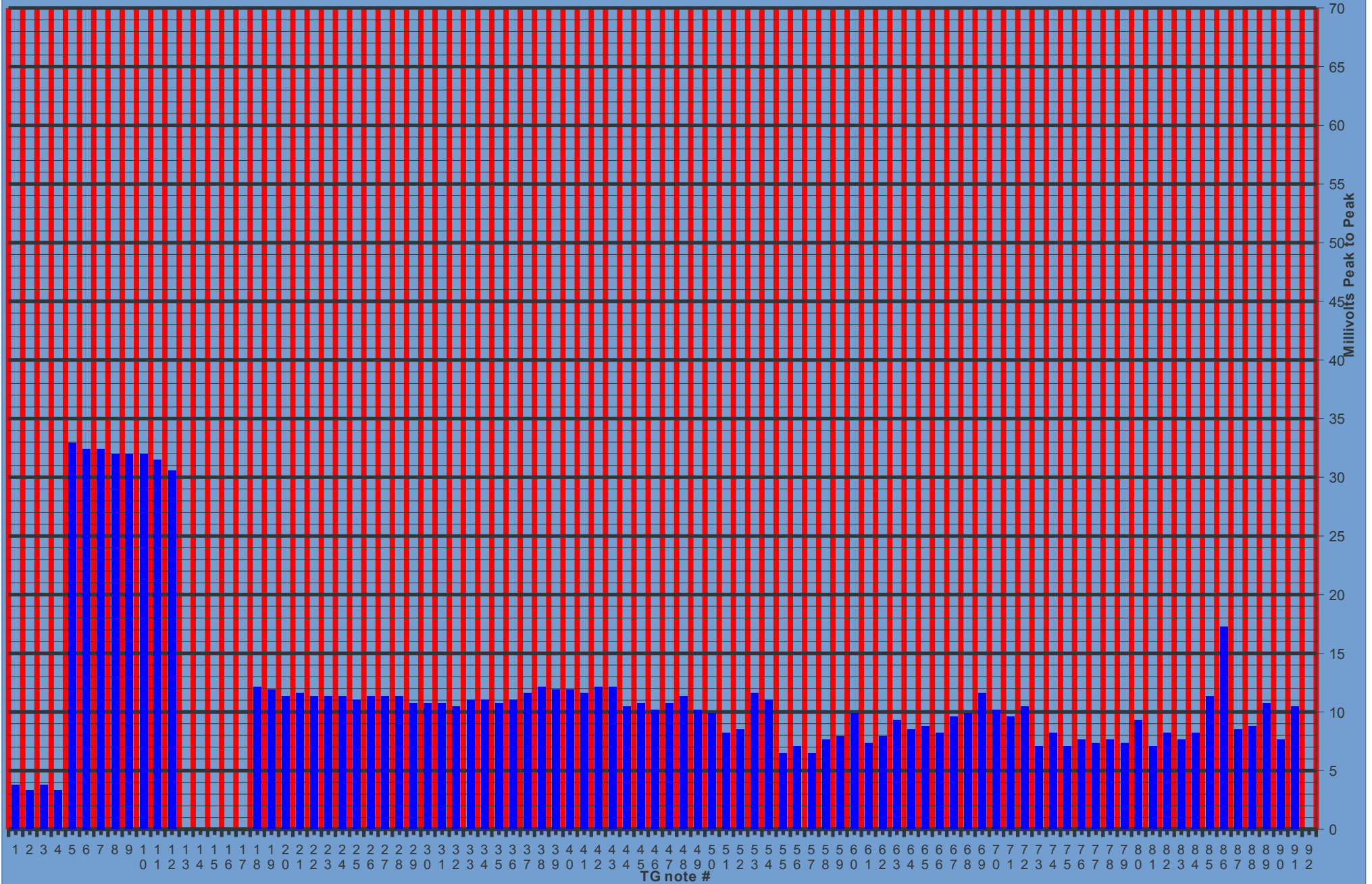
Christian's recapped and recalibrated 1955 M3. S/n 58280. "I used orange drops 225p, measuring each tone for the resonance peak (as a function of capacitance). After that I recalibrated."



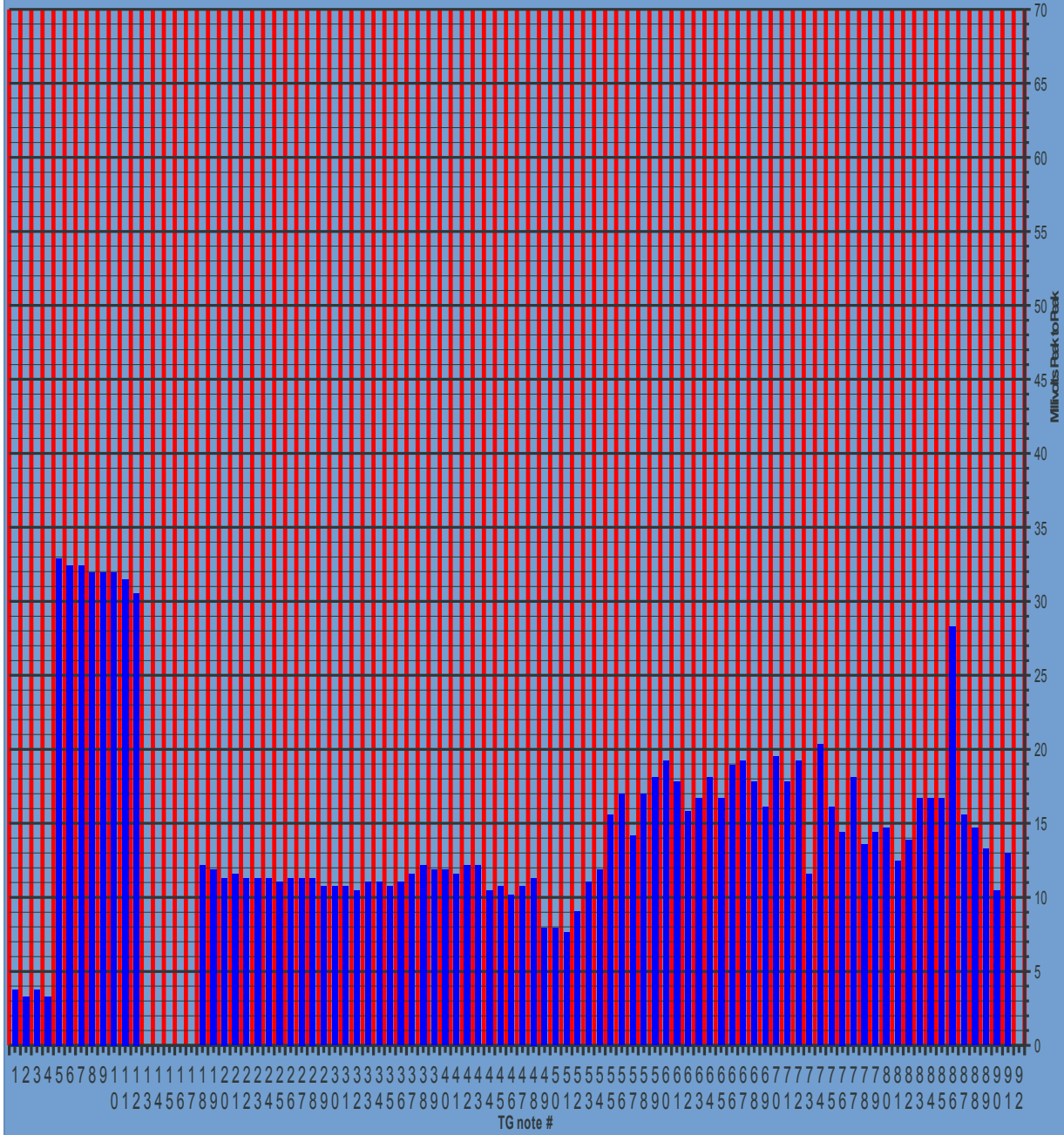
John's 1959 M3 Recapped with Mylar caps



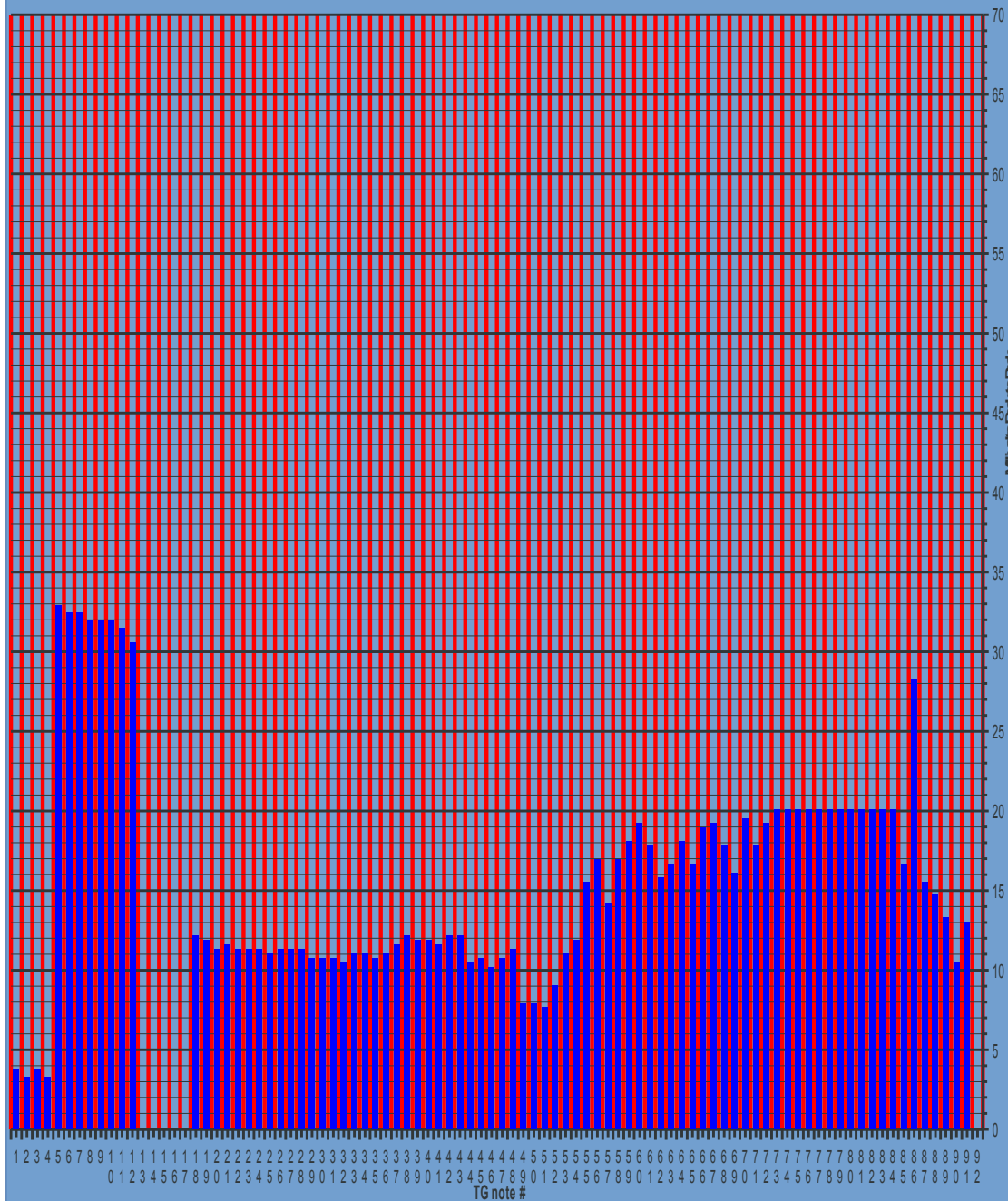
Pat's wax capped 1959 M3. S/n 130634 "I find this M3 realy dull and boring sounding".



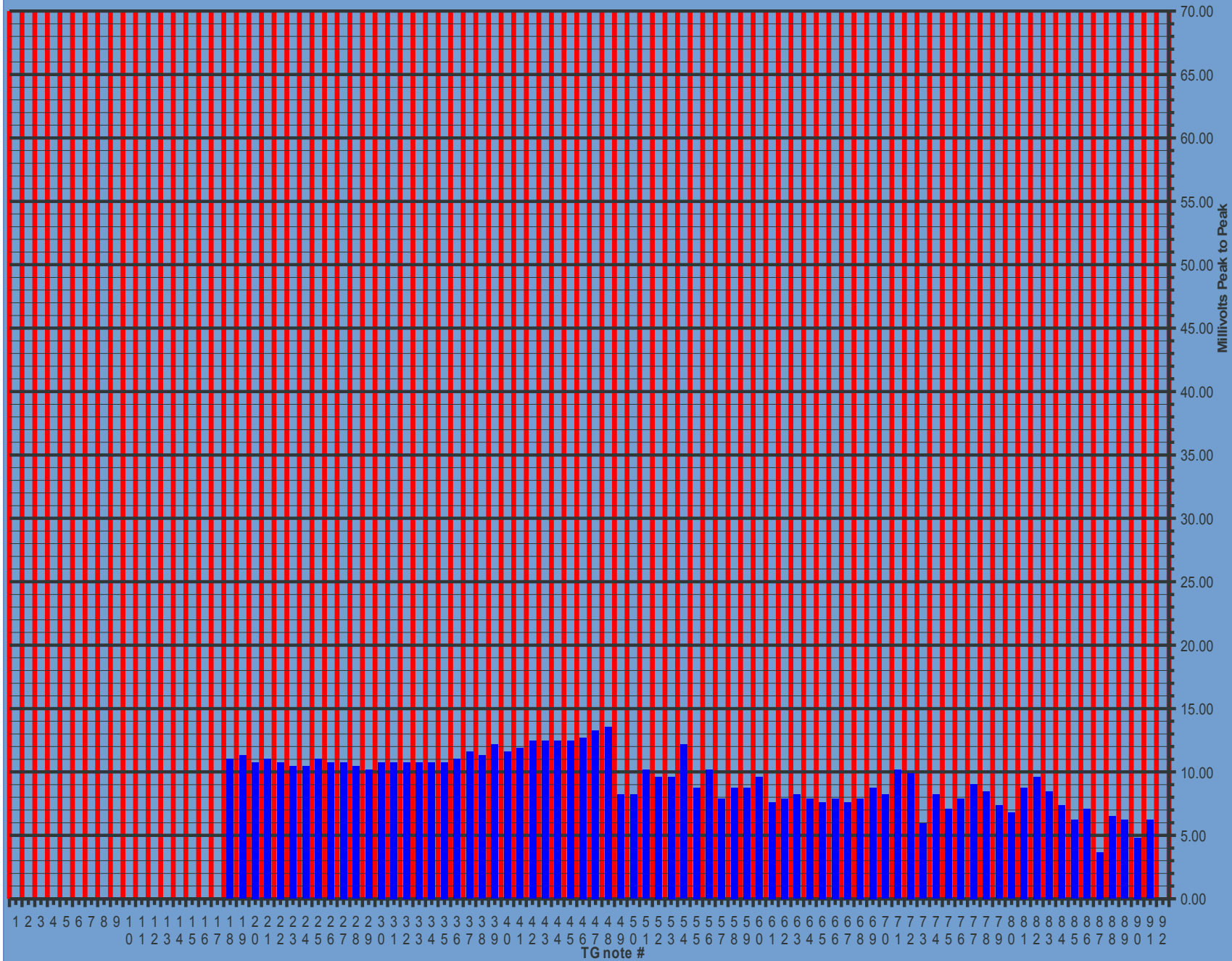
Pat's recapped 1959 M3. S/n 130634 "This M3 now sounds better with an added treble response but it is still lacking in both the bass (the bass is whimpy as hell) and the treble. It is midrangey sounding".



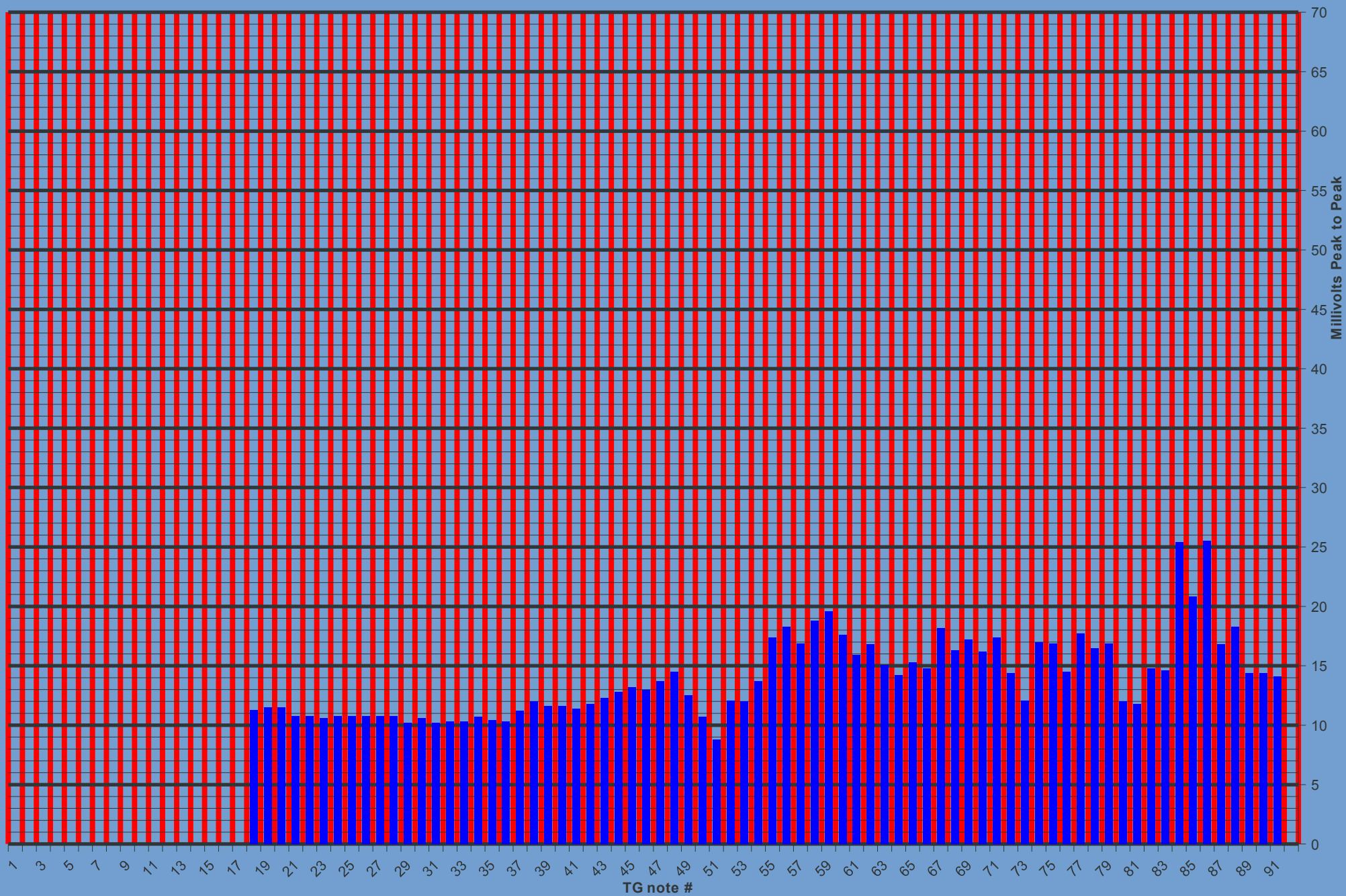
Pat's recapped and recalibrated 1959 M3. S/n 130634 "This M3 now sounds better with an added treble response but it is still lacking in both the bass (the bass is whimpy as hell) and the treble. It is midrangey sounding".



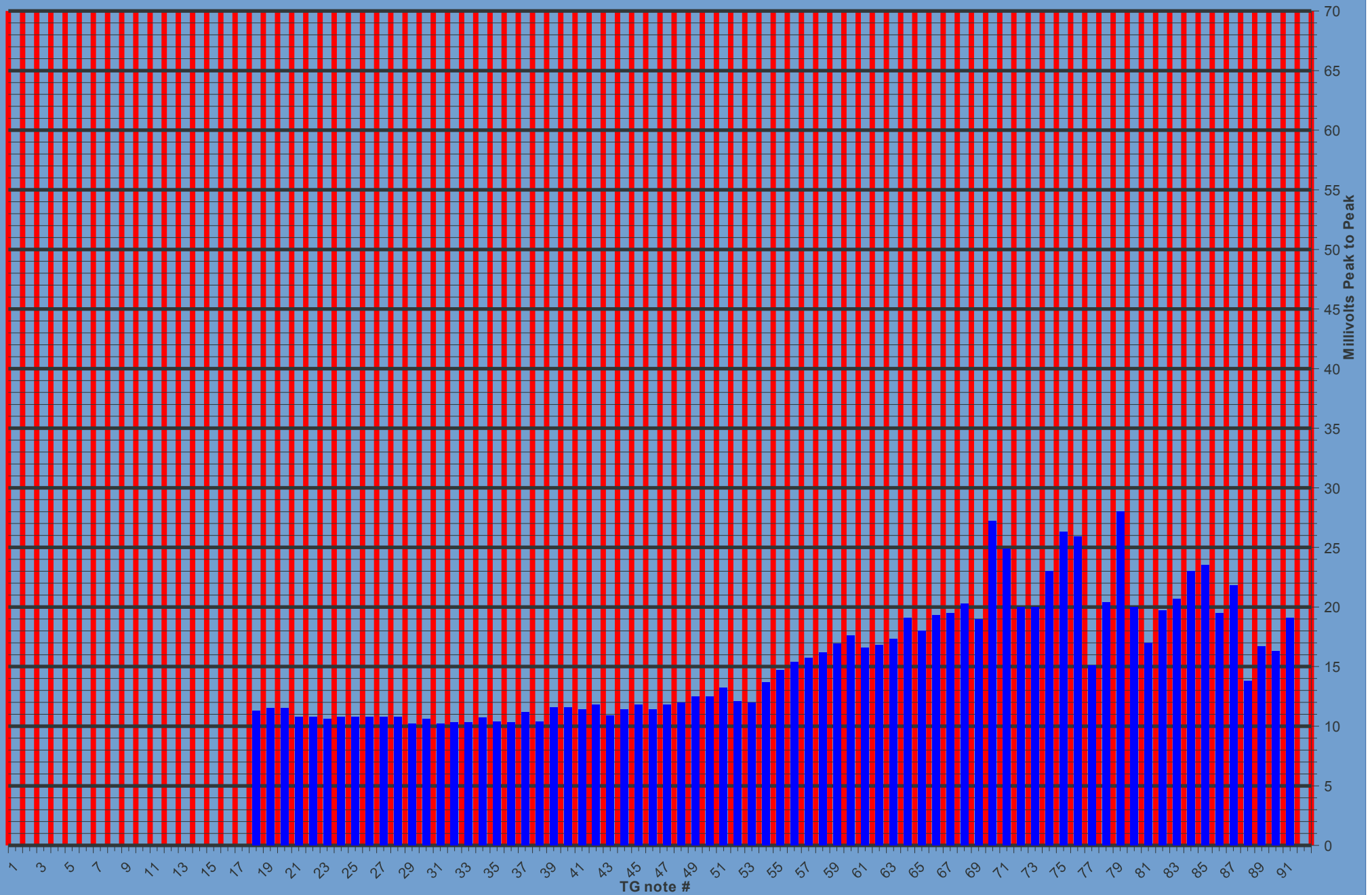
Greg's wax capped 1960 M3. S/n 153841. Measured with Fluke 87v True RMS meter. MV RMS levels converted to mVpp by Kon, 6 October 2017.



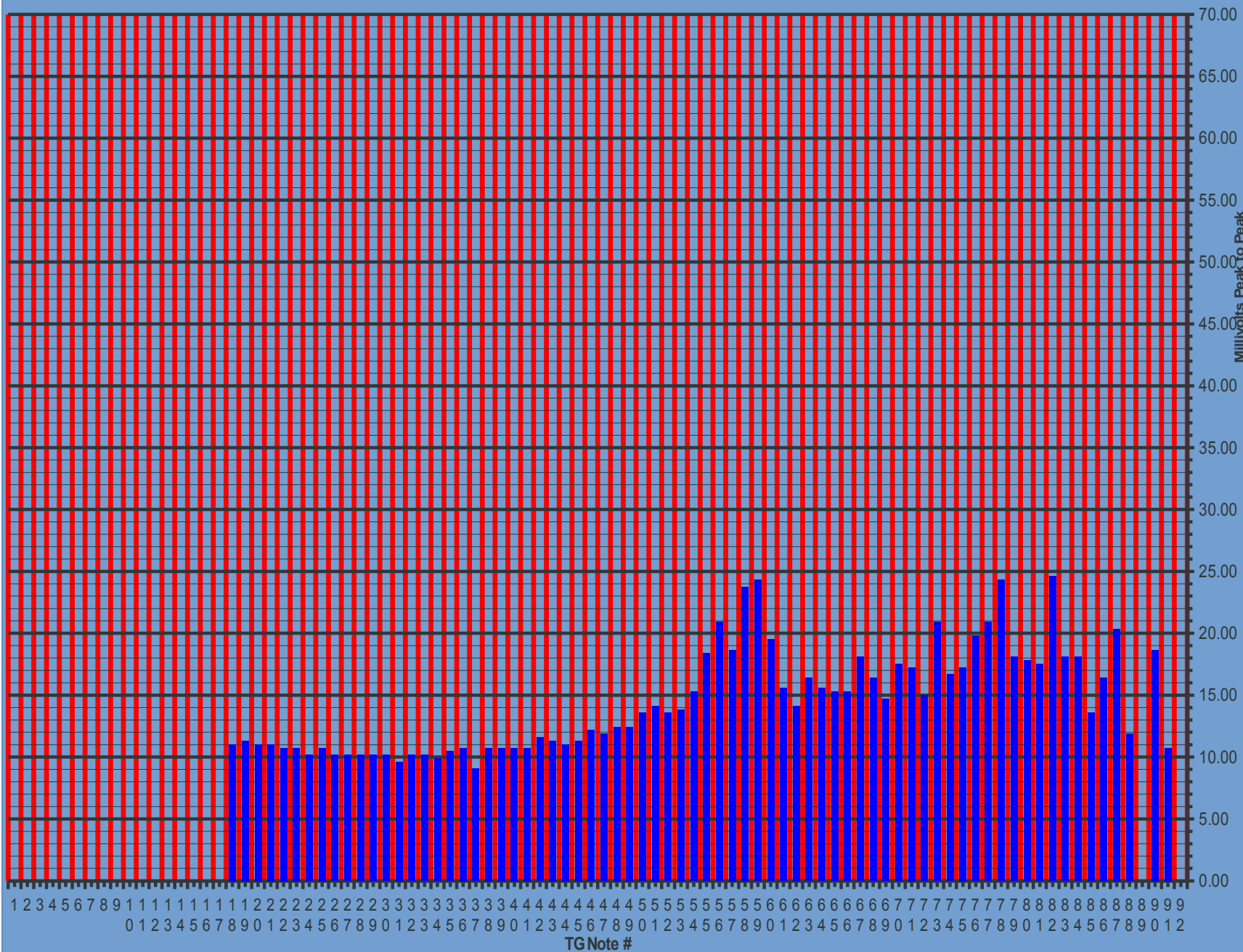
Matthias L's re-capped 1962 M-100



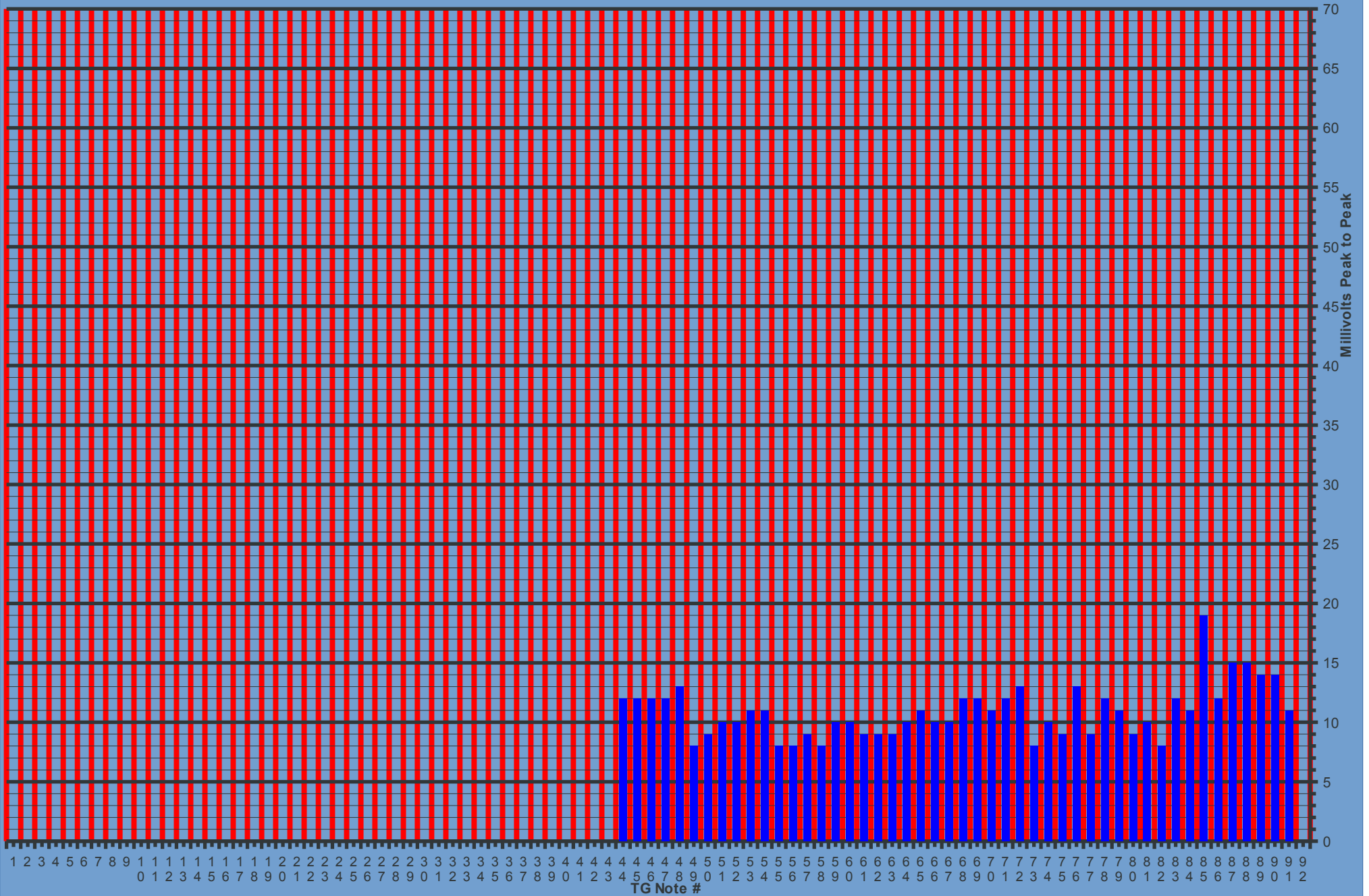
Matthias L's re-capped and recalibrated 1962 M-100



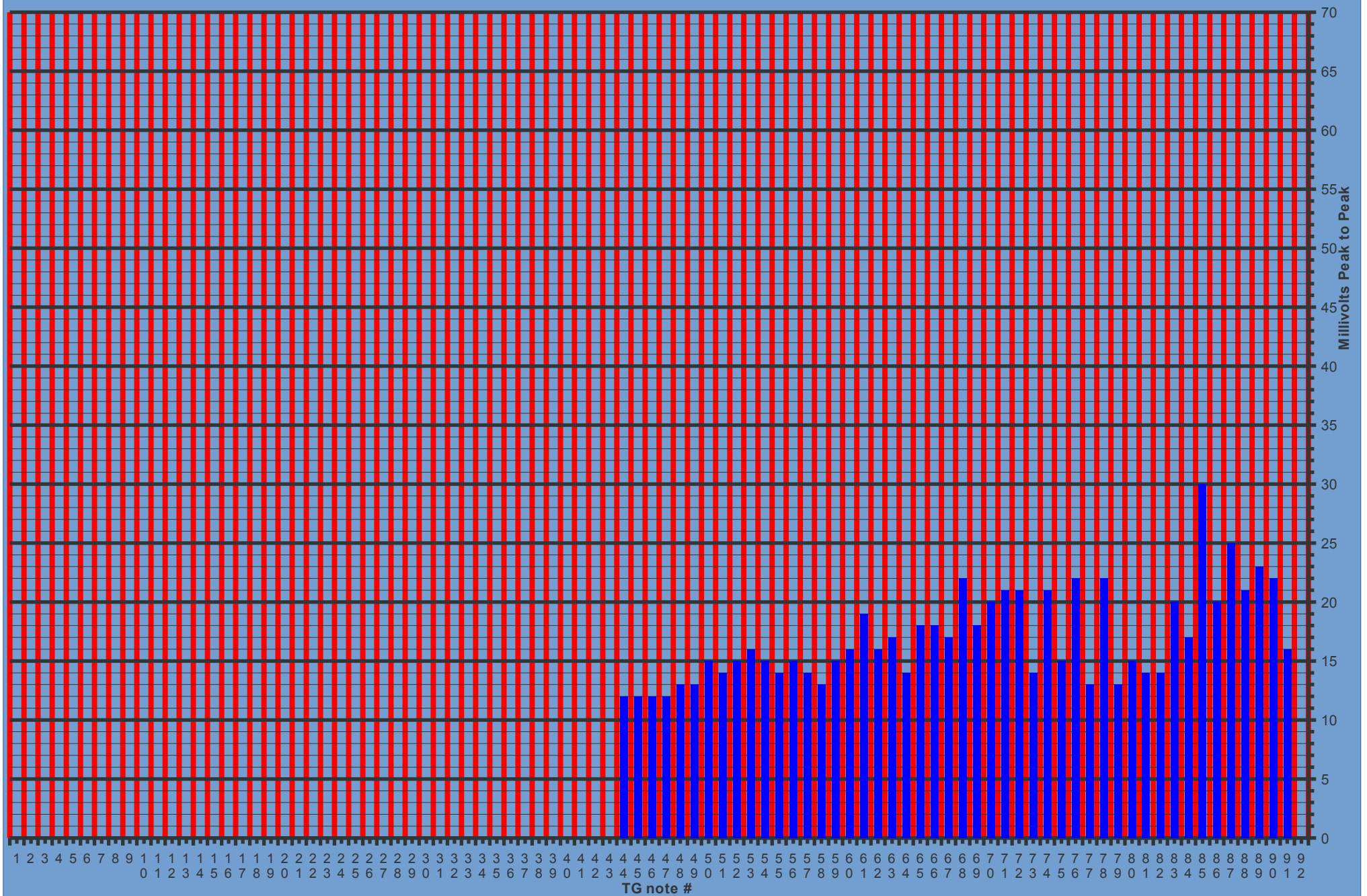
Markus's red mylar capped 1965 M-103. S/n 53163 " Sweet and relatively balanced sound". mVpp levels converted from mV RMS by Kon



Stefan V's wax capped 1962 M-111



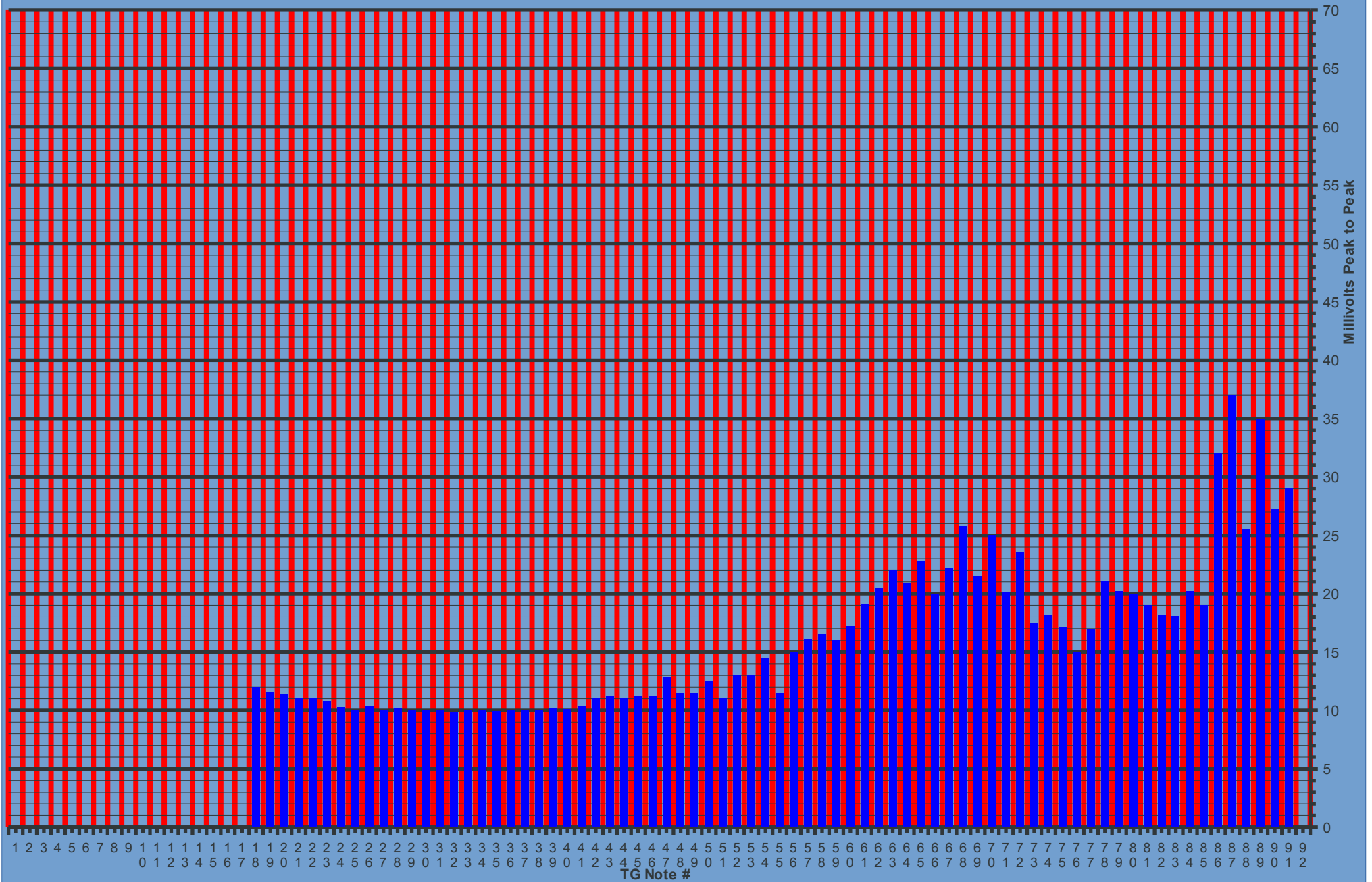
Stefan's recapped 1962 M-111



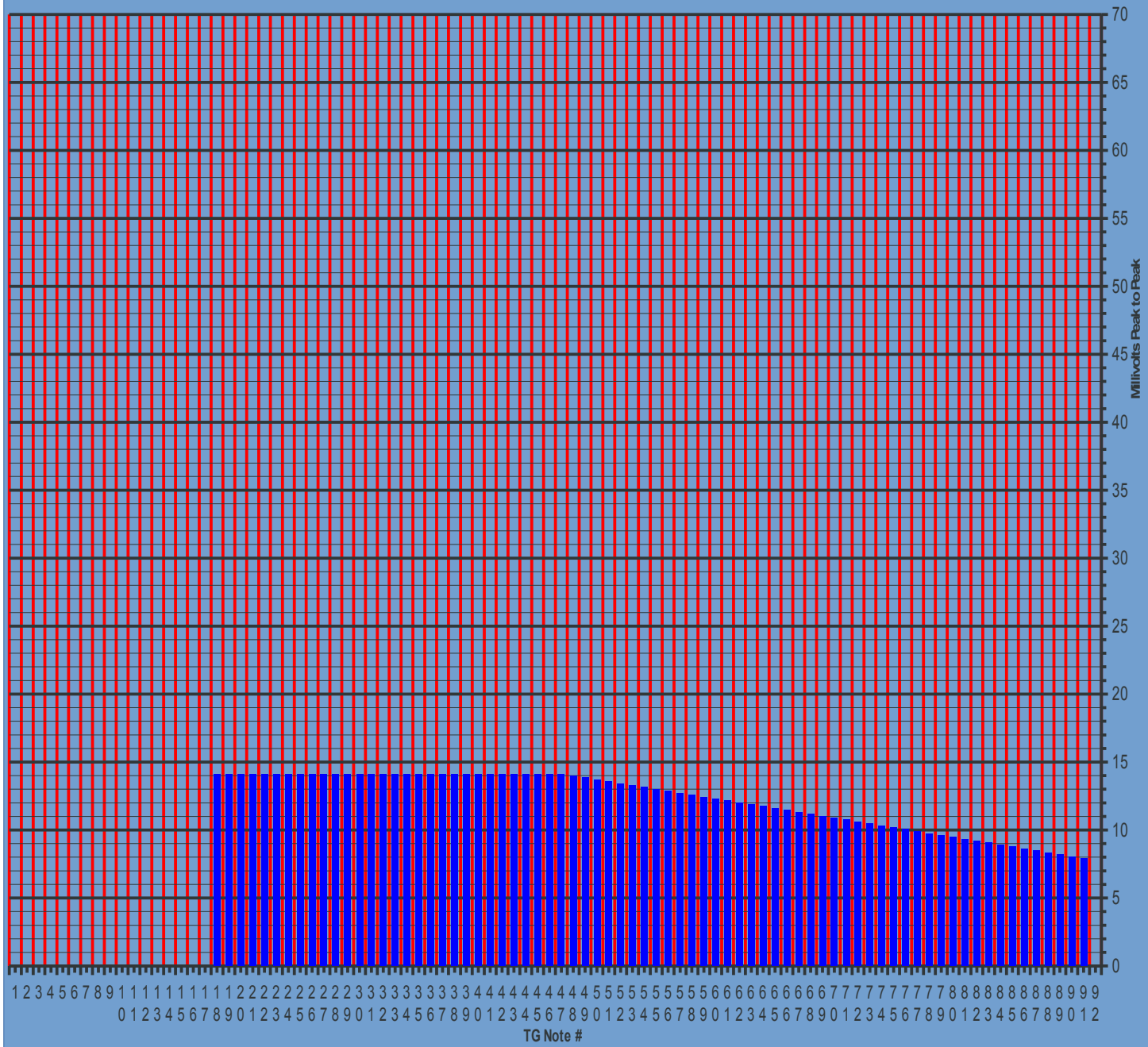
Stefan's recapped and recalibrated 1962 M-111



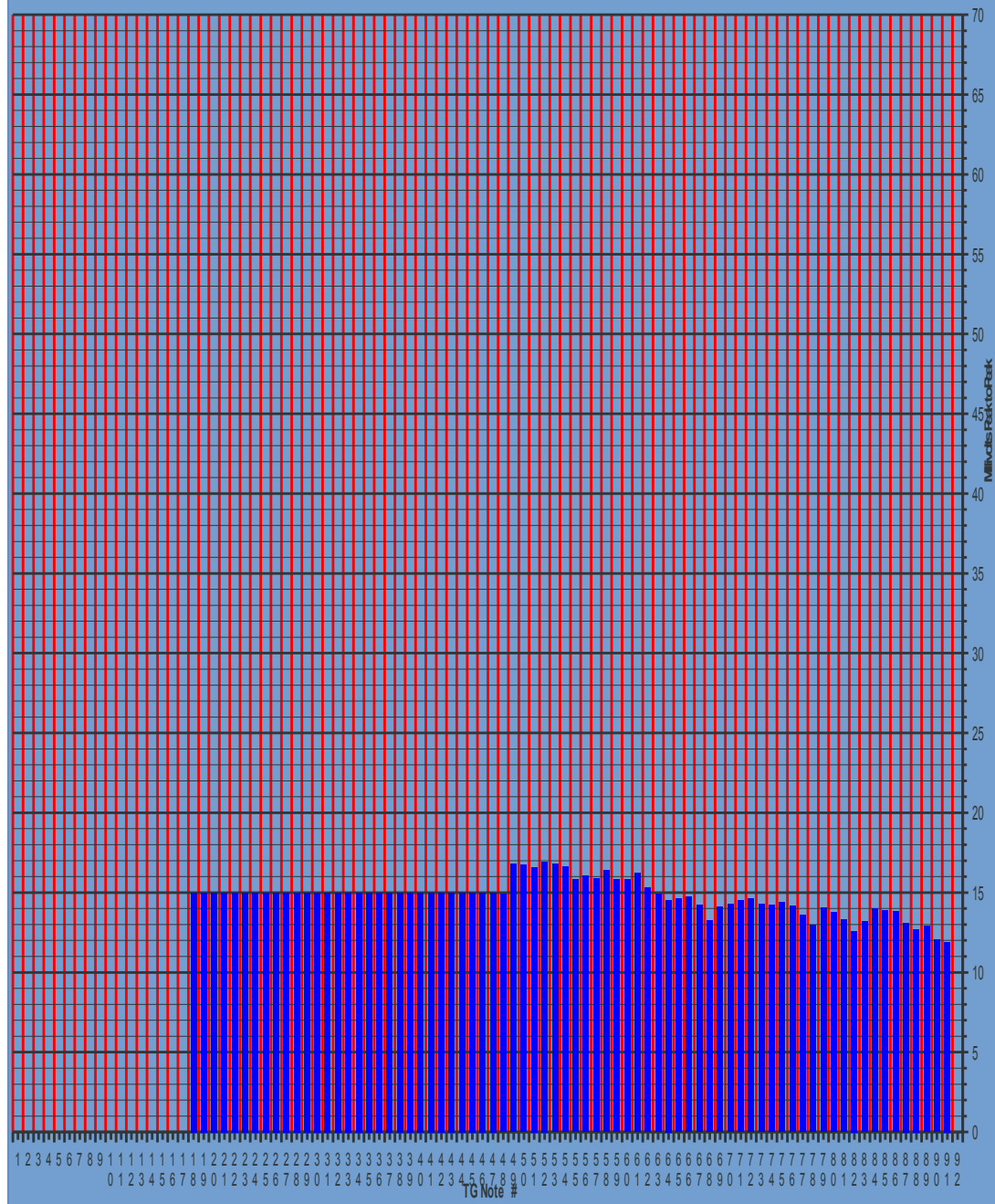
Simon's 1968 ? T-100 with red mylar capacitors. TG not in organ. Measured by Kon.



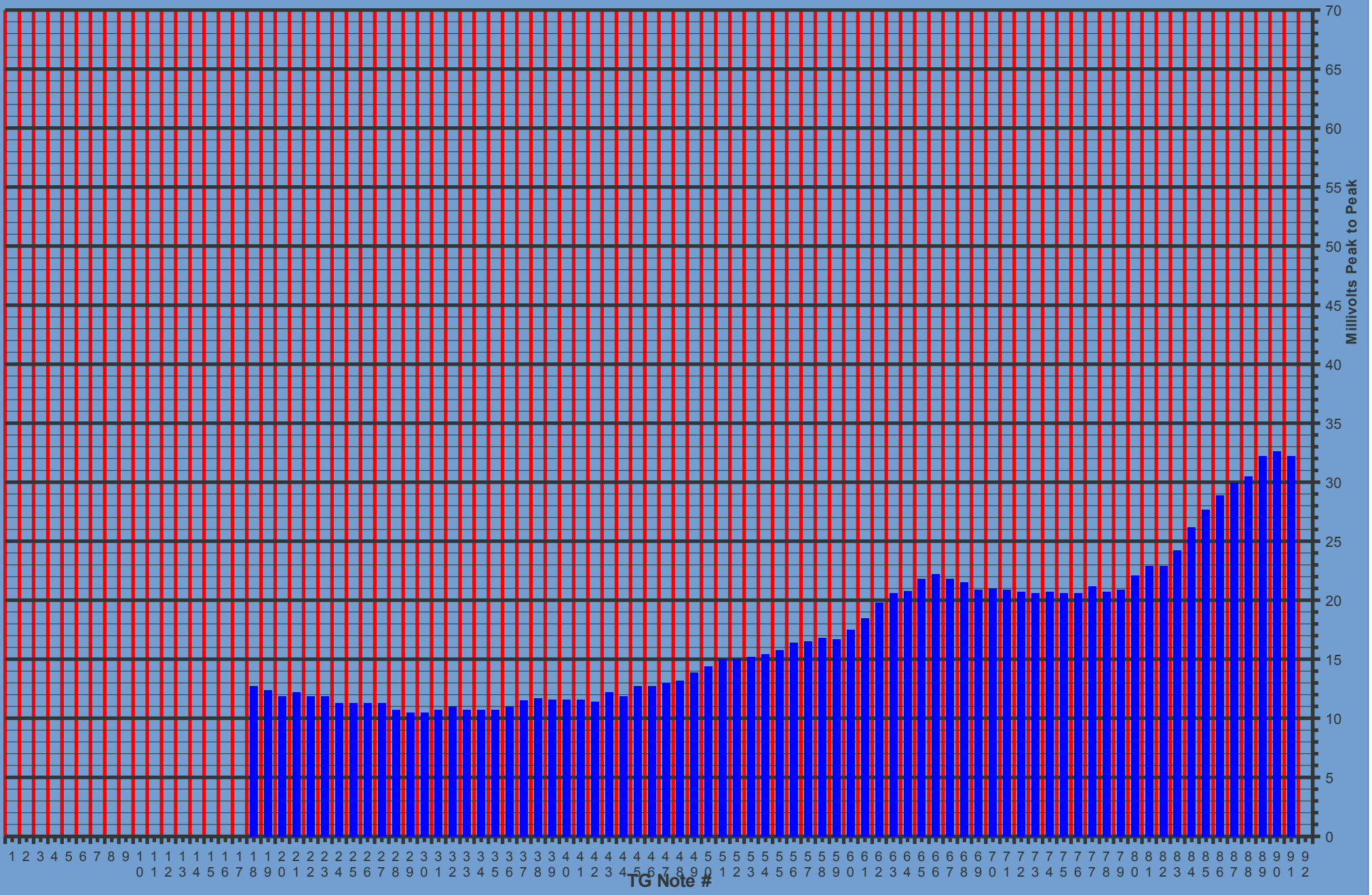
Carsten's T100 . Shunted with 27 0ms resistor. Recalibrated to emulate the sound of the console organs with manual tapering. mVRMS levels converted to mVpp by Kon.



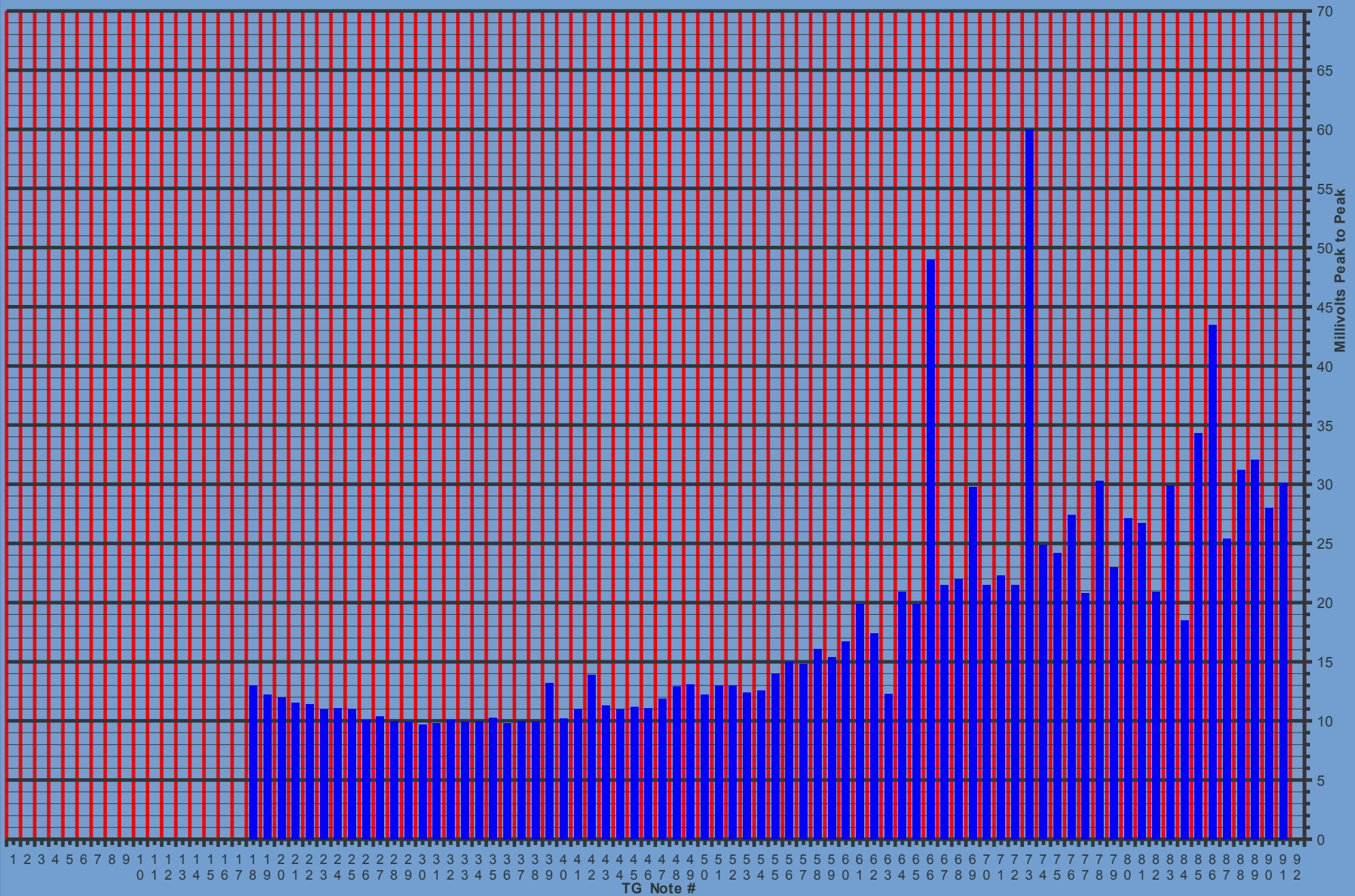
Carsten's T-100 Approximate mVpp levels without the 27 ohms shunt resistor. Levels worked out by Kon by measuring and comparing the output levels differences of Steve's T-300 with and without a 27 ohms shunt resistor.



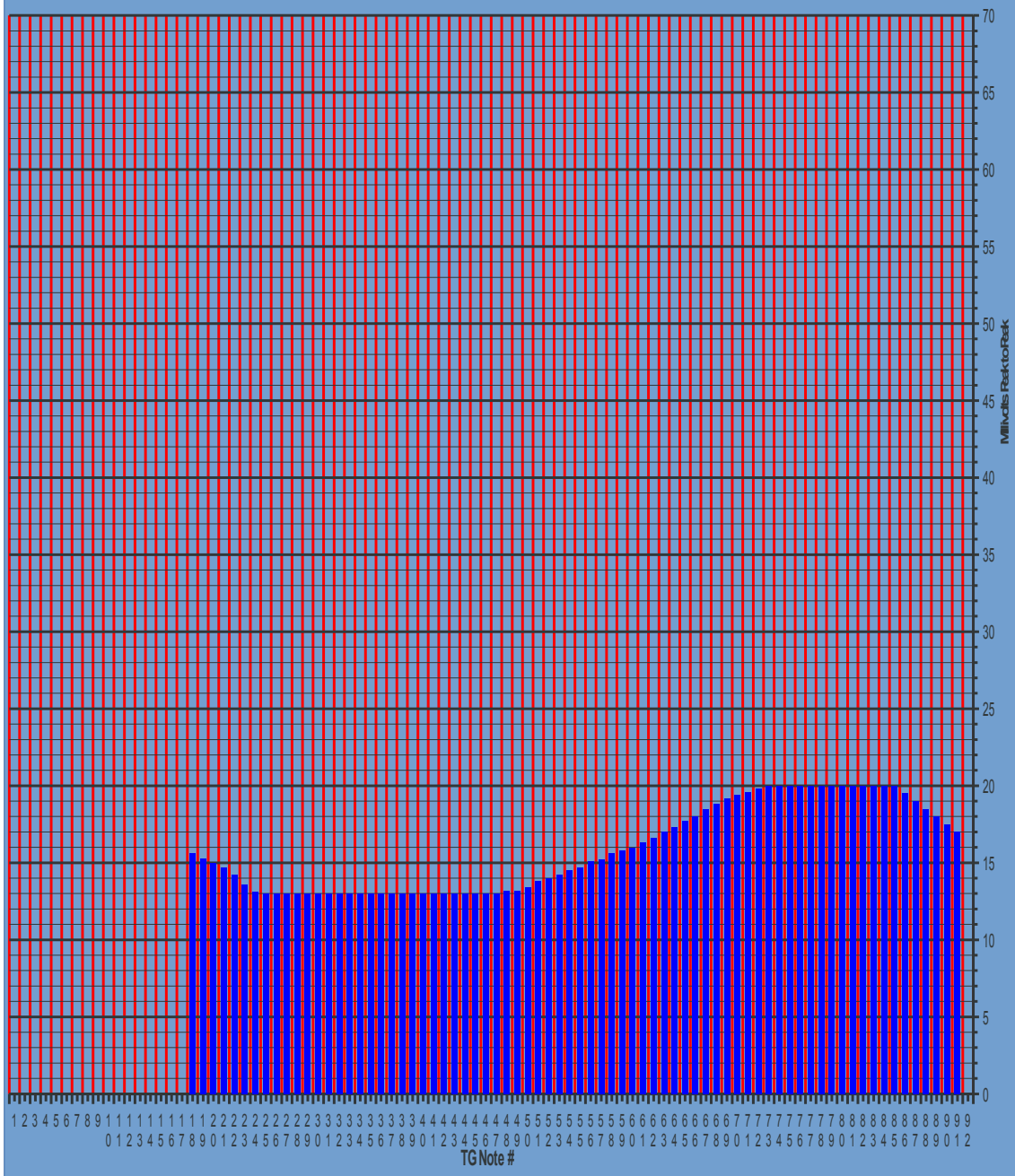
Matthias's T-222 Red mylar capacitors.



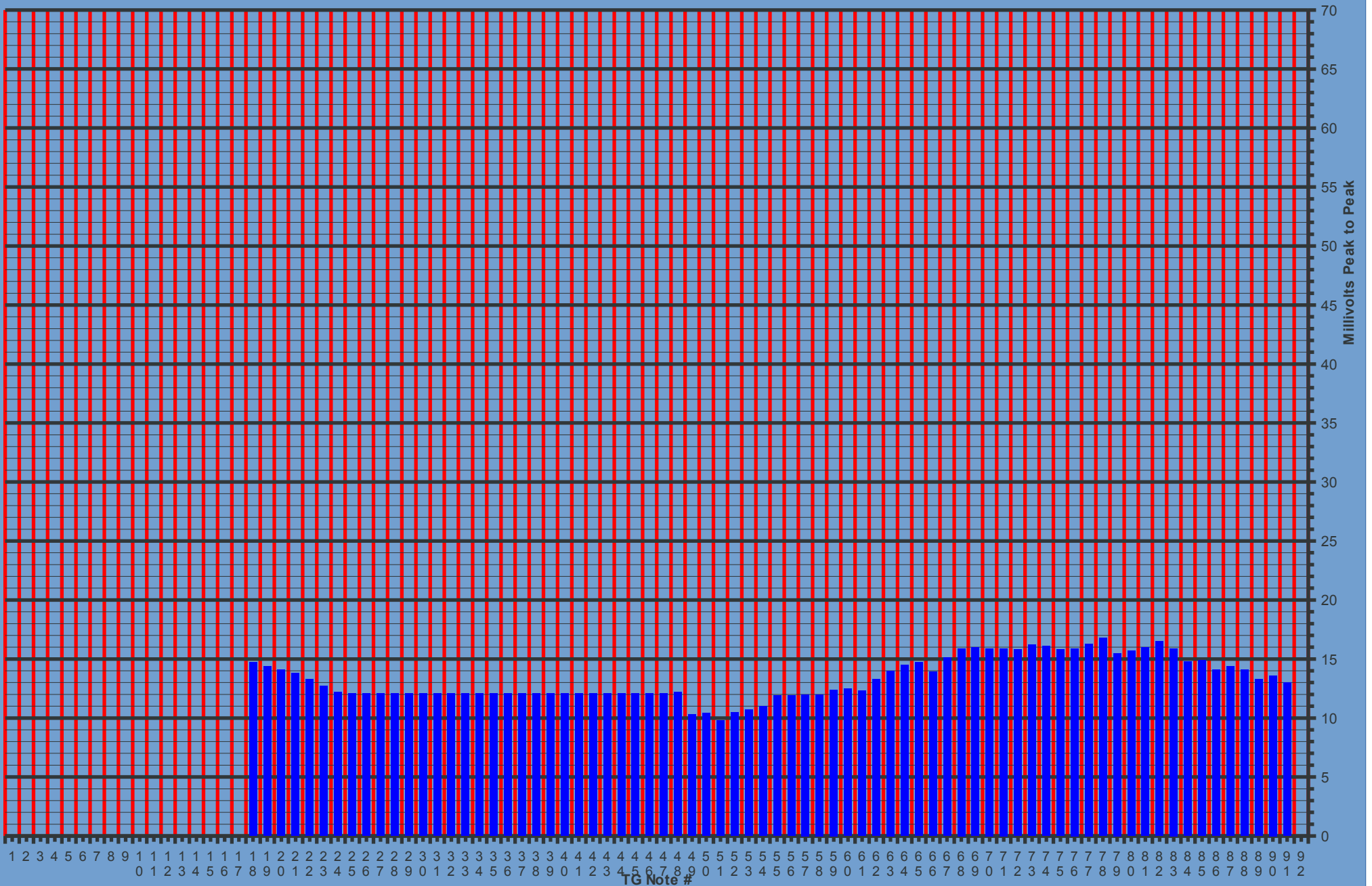
Steve's 1970 ? T-300 S/n 99137 Red mylar capacitors. Original output levels. Thin nasal sound . Measured by Kon.



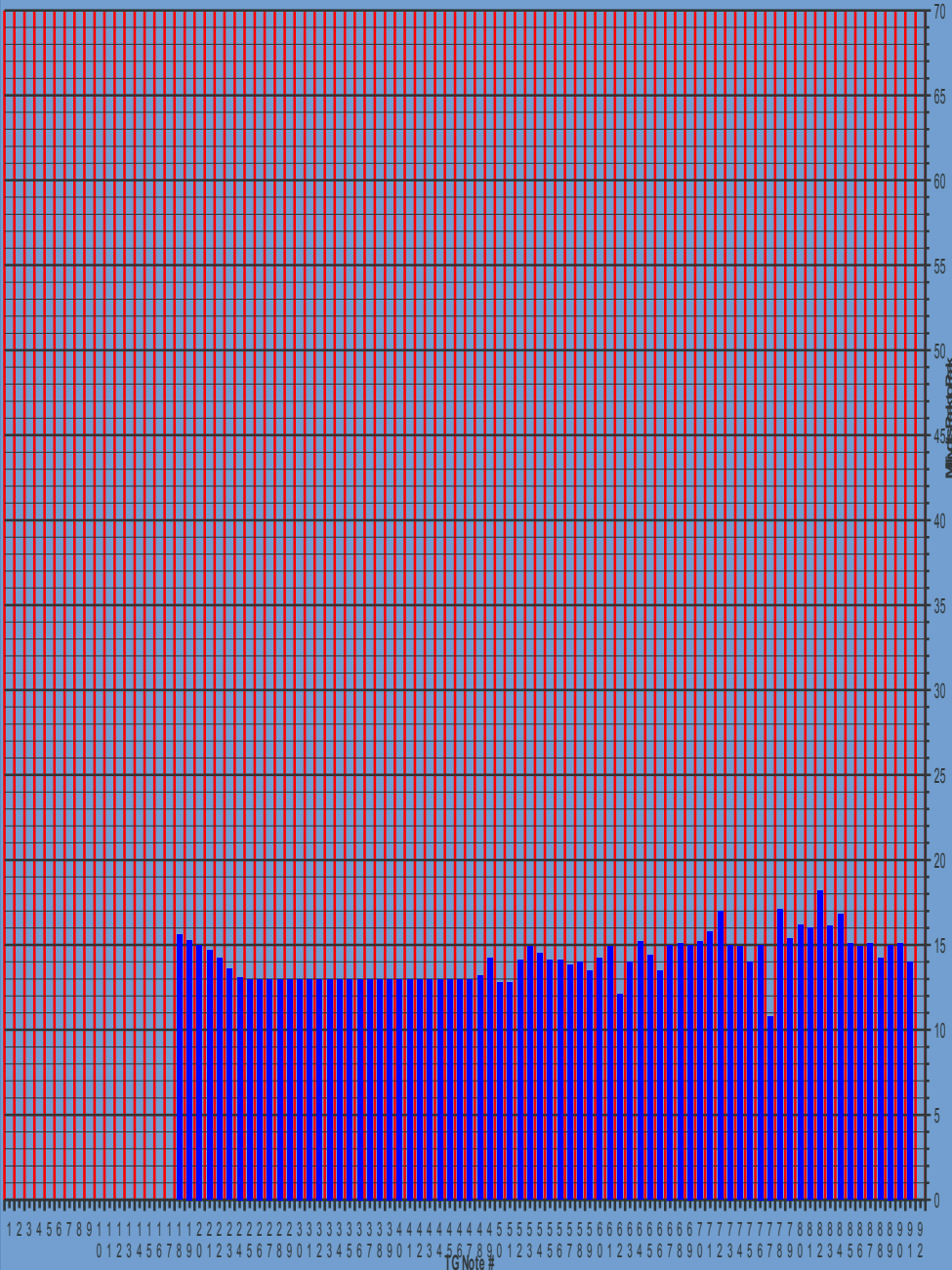
Steve's 1970 ? T-300 S/n 99137 Red mylar capacitors. TG recalibrated by Kon for a warmer, more M3 -like sound. 50 uf capacitor and 10 ohm Resistor hum filters removed from the TG notes 37 - 48 for a fatter sound .



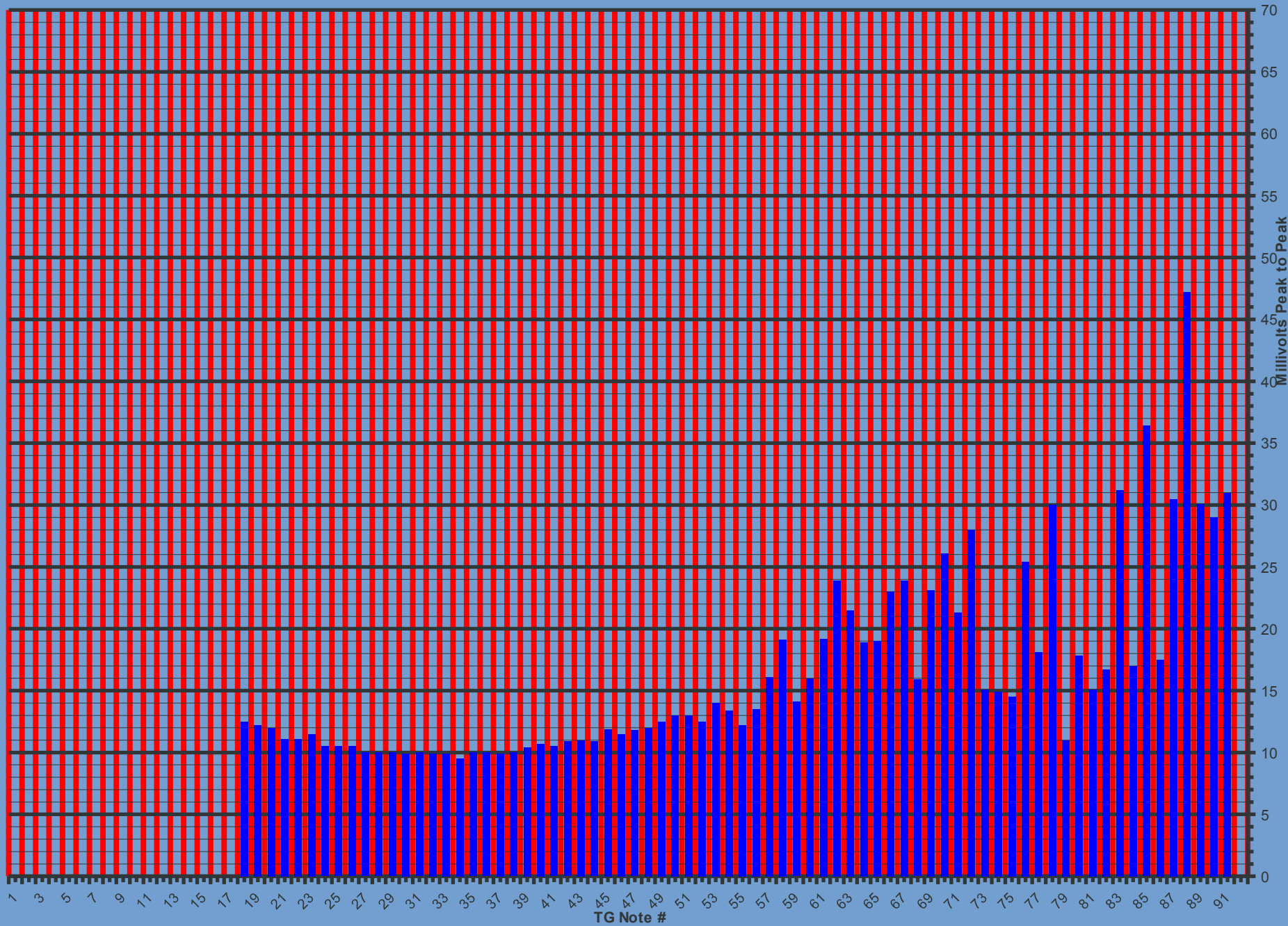
Steve H's recalibrated 1970 ? T-300 with red mylar caps. TG measured with a 27 ohms shunt resistor.



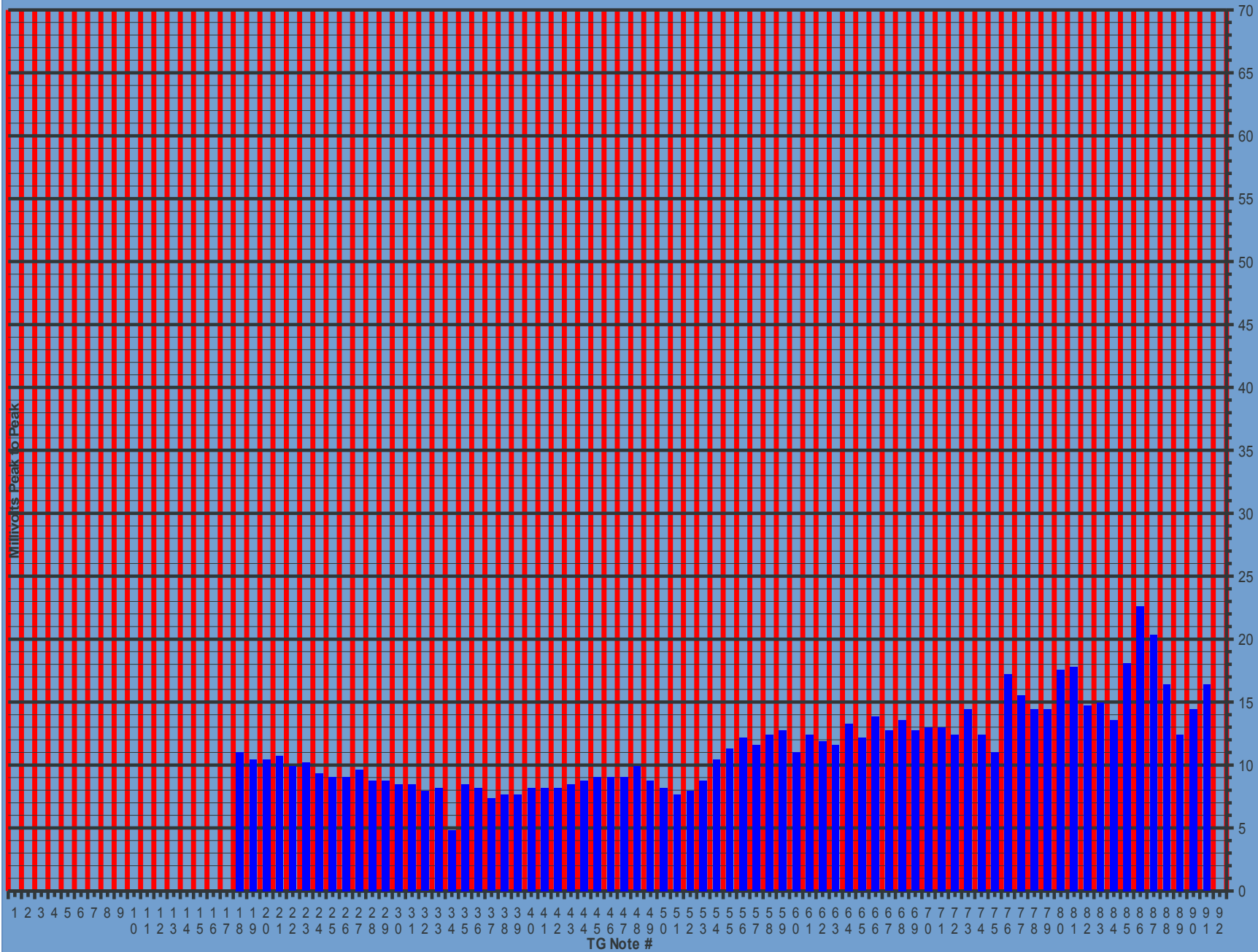
Steve's recalibrated 1970? T-300. Measured by Kon after the original capacitor tray with the still in correct mfd specs red mylar capacitors was removed and swapped with the new MKT polyester capacitors tray from Kon's 1962 C3. Warmer and fatter sound.



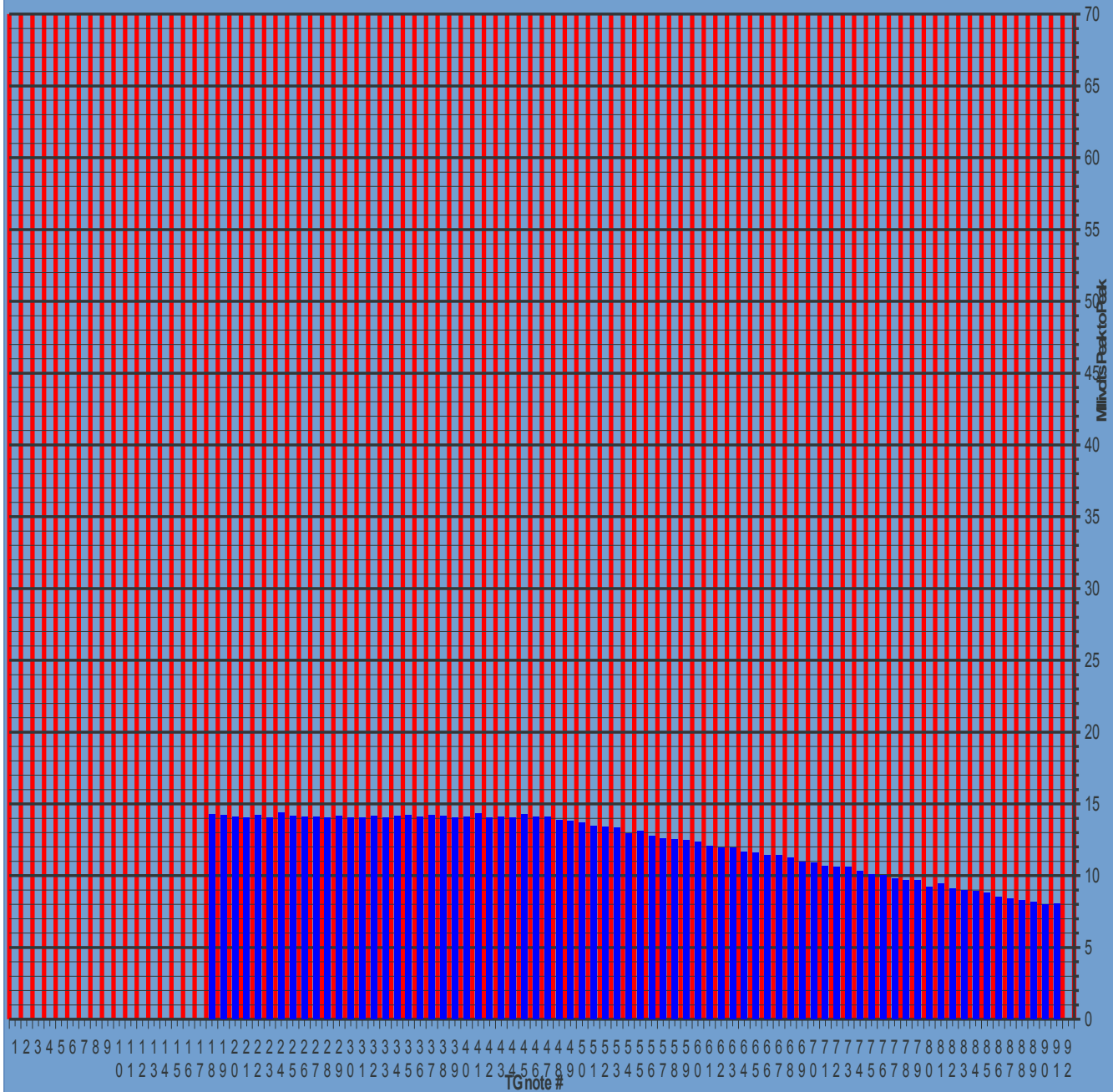
Marsden's red mylar capped 1970 T422 S/n B-1087. Measured by Kon, September 2012



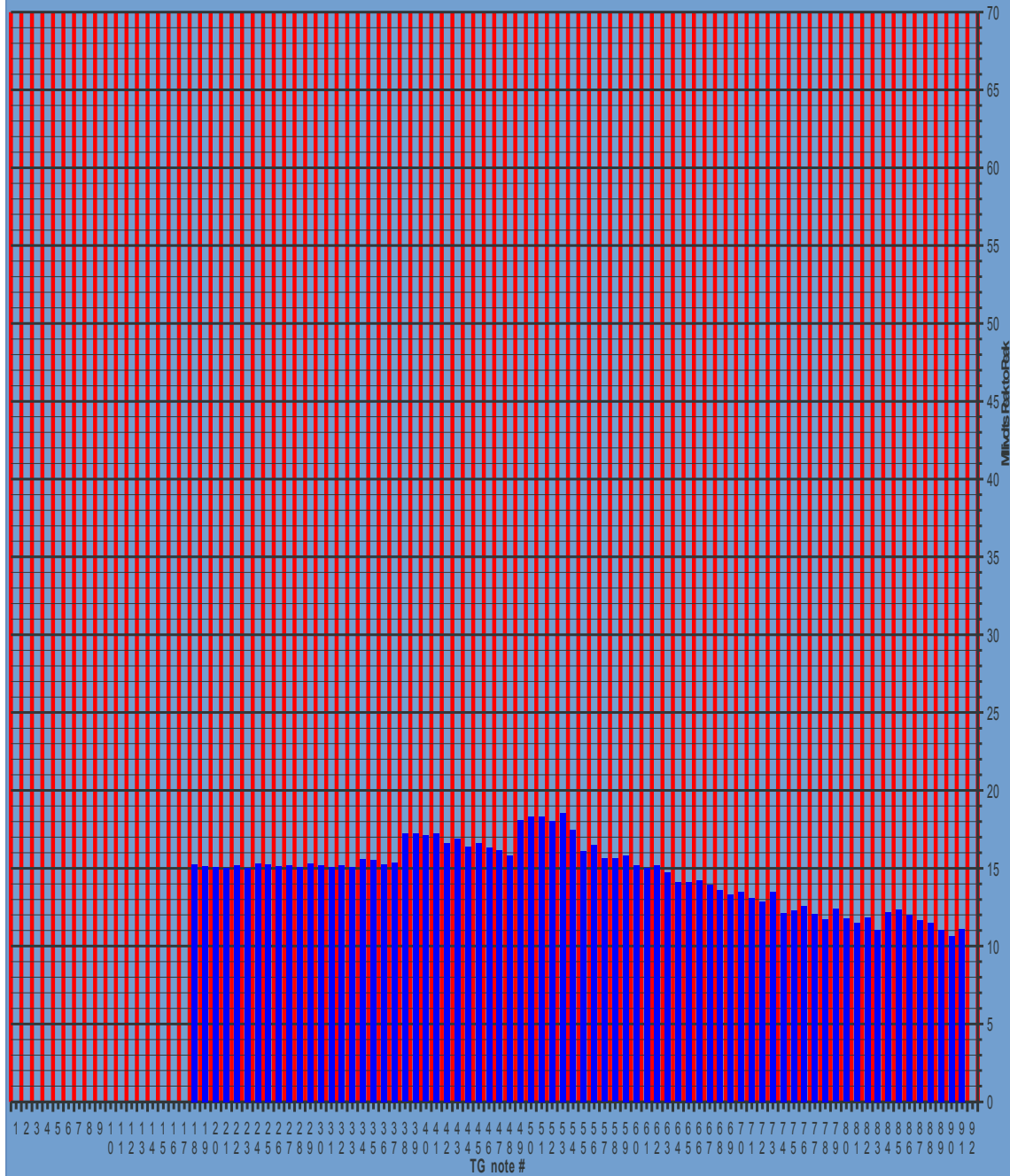
Jorgen's red mylar capped T-500. Original stock calibration. Shunted with 27 ohms resistor. mVRMS levels converted to mVpp by Kon.



Jorgen's red mylar capped T-500. Recalibrated by Jorgen in April 2007 to Carsten Myer's T-series specs and shunted with a 27 ohms resistor. mVRMS levels converted to mVpp by Kon.



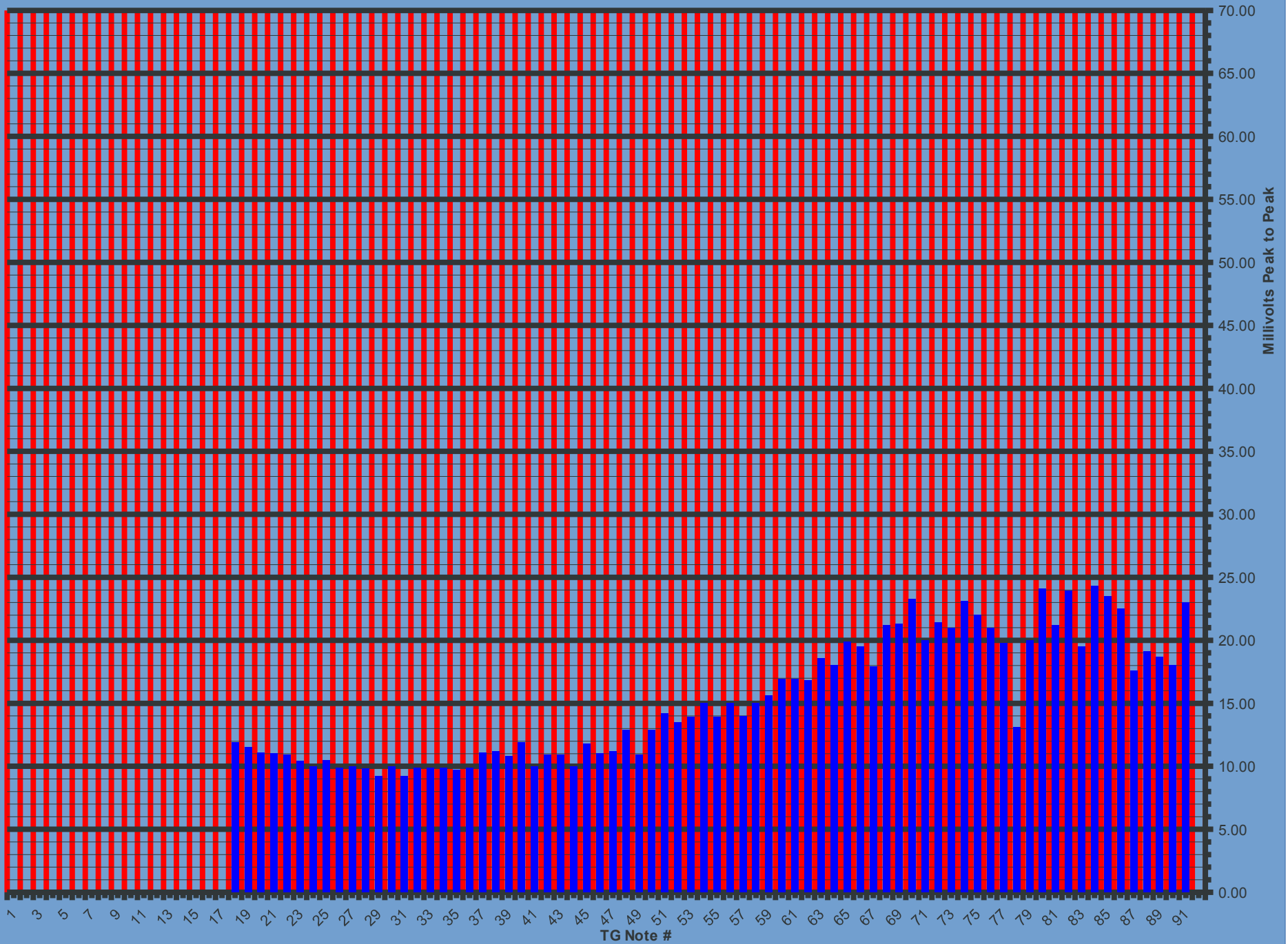
Jorgen's red mylar capped T-500. Recalibrated by Jorgen in April 2007 to Carsten Myer's T-series specs. Actual direct TG output levels without the 27 ohms shunting resistor. mVRMS levels converted to mVpp by Kon.



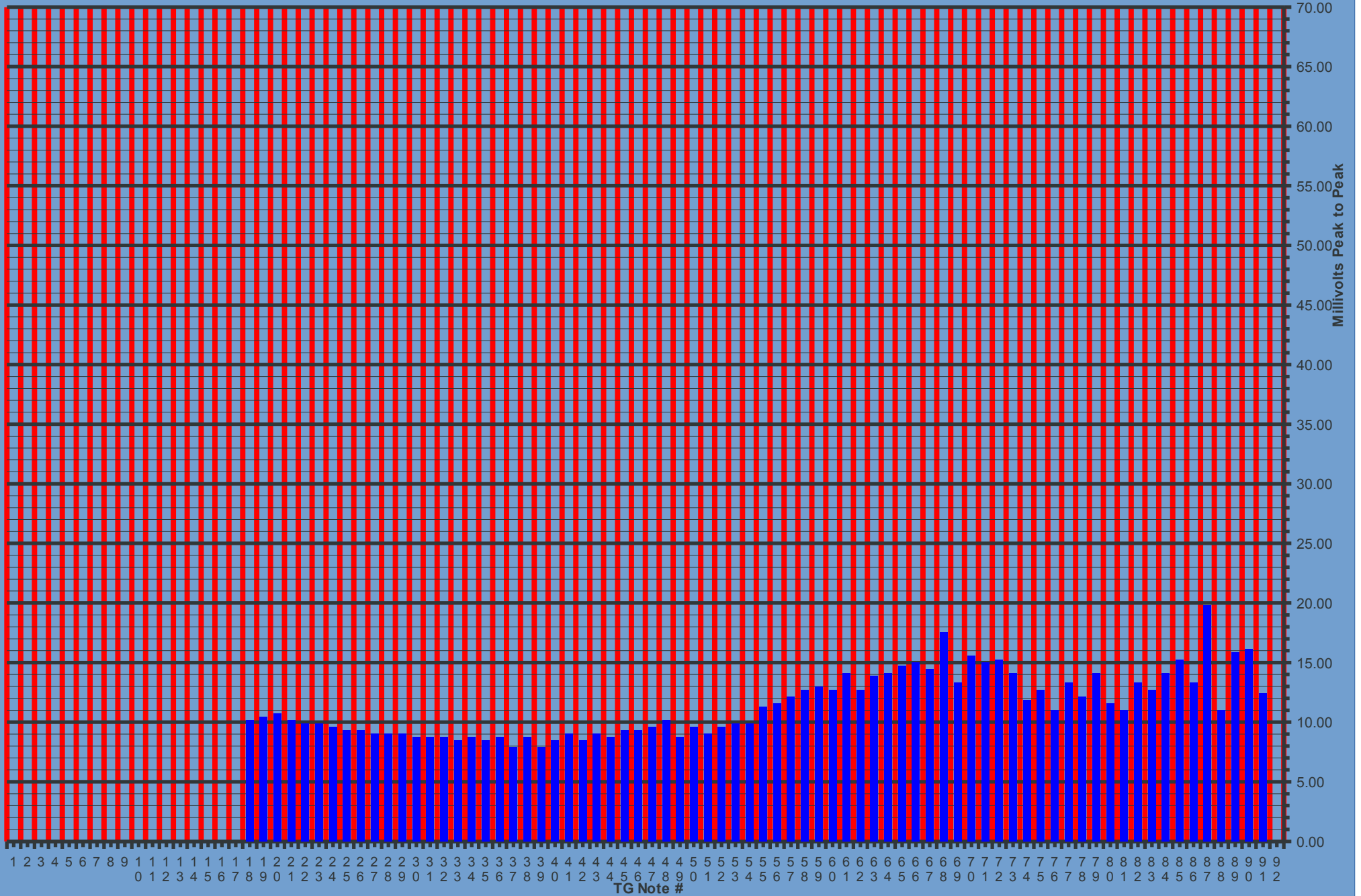
Brendon's 1975 T-500 S/n 11-5071-75 Original TG output curve. mV RMS levels converted to mVpp by Kon.



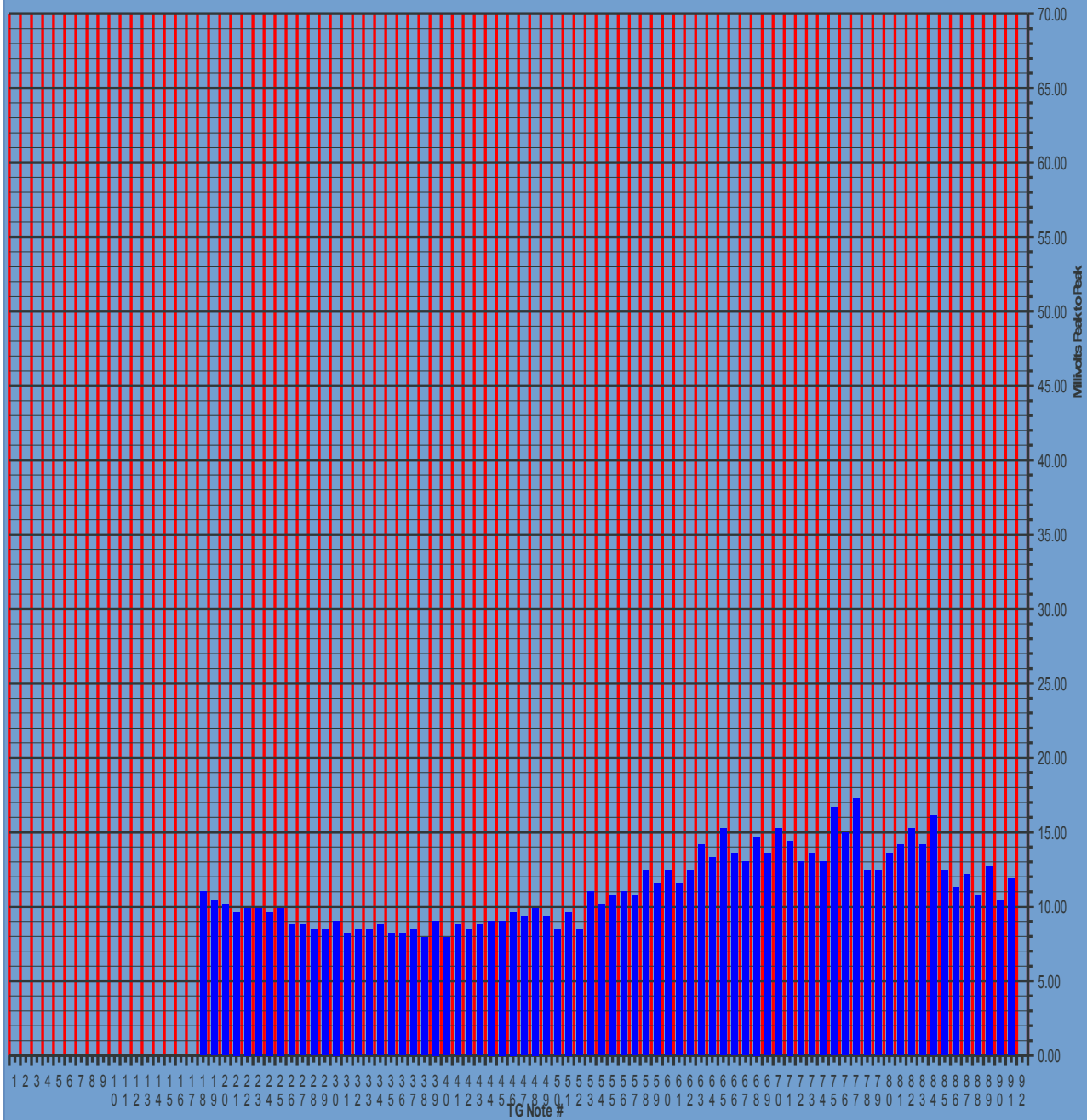
Nigel's 1975 red mylar capped T-524. S/n 367713. Measured by Kon, 2 March 2016.



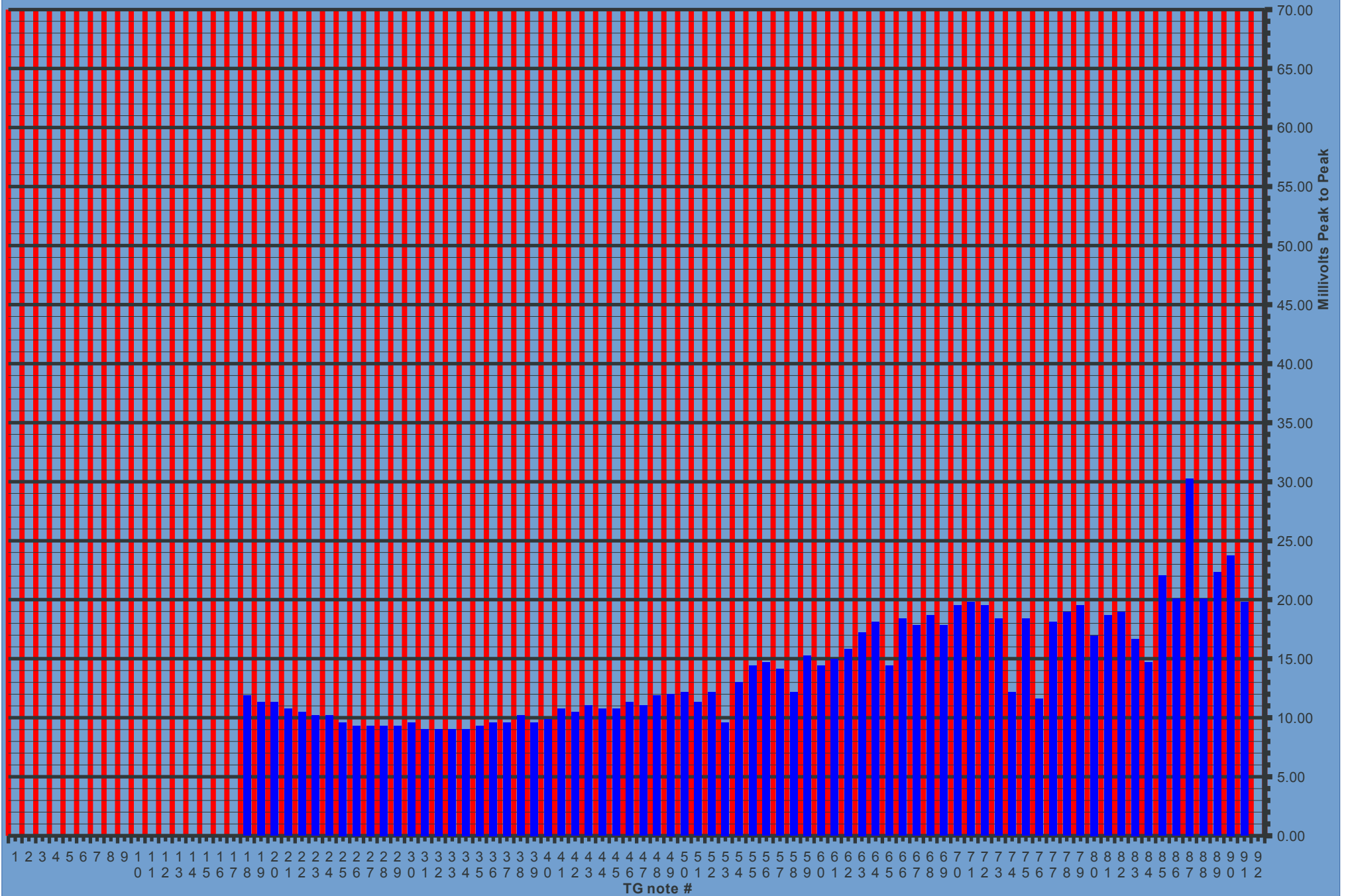
Jorgen's red mylar capped TX-500. Shunted with 27 ohms resistor. mVRMS levels converted to mVpp by Kon.



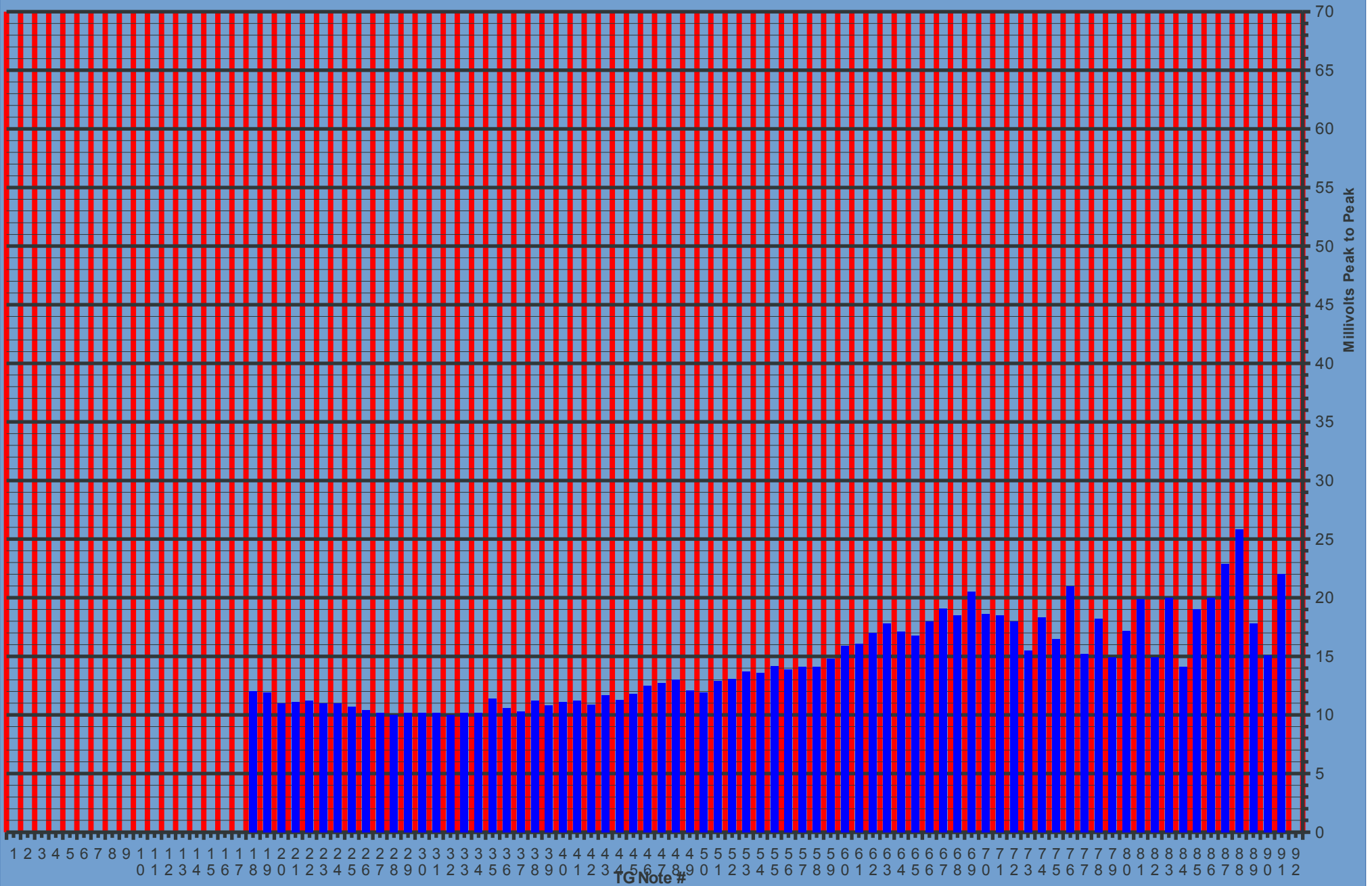
Hugh's 1972 T-582 C. With red mylar caps. Original TG calibration. Subsequently recalibrated identically to Carsten Myer's T-100 output levels specs. mV RMS levels converted to mVpp by Kon.



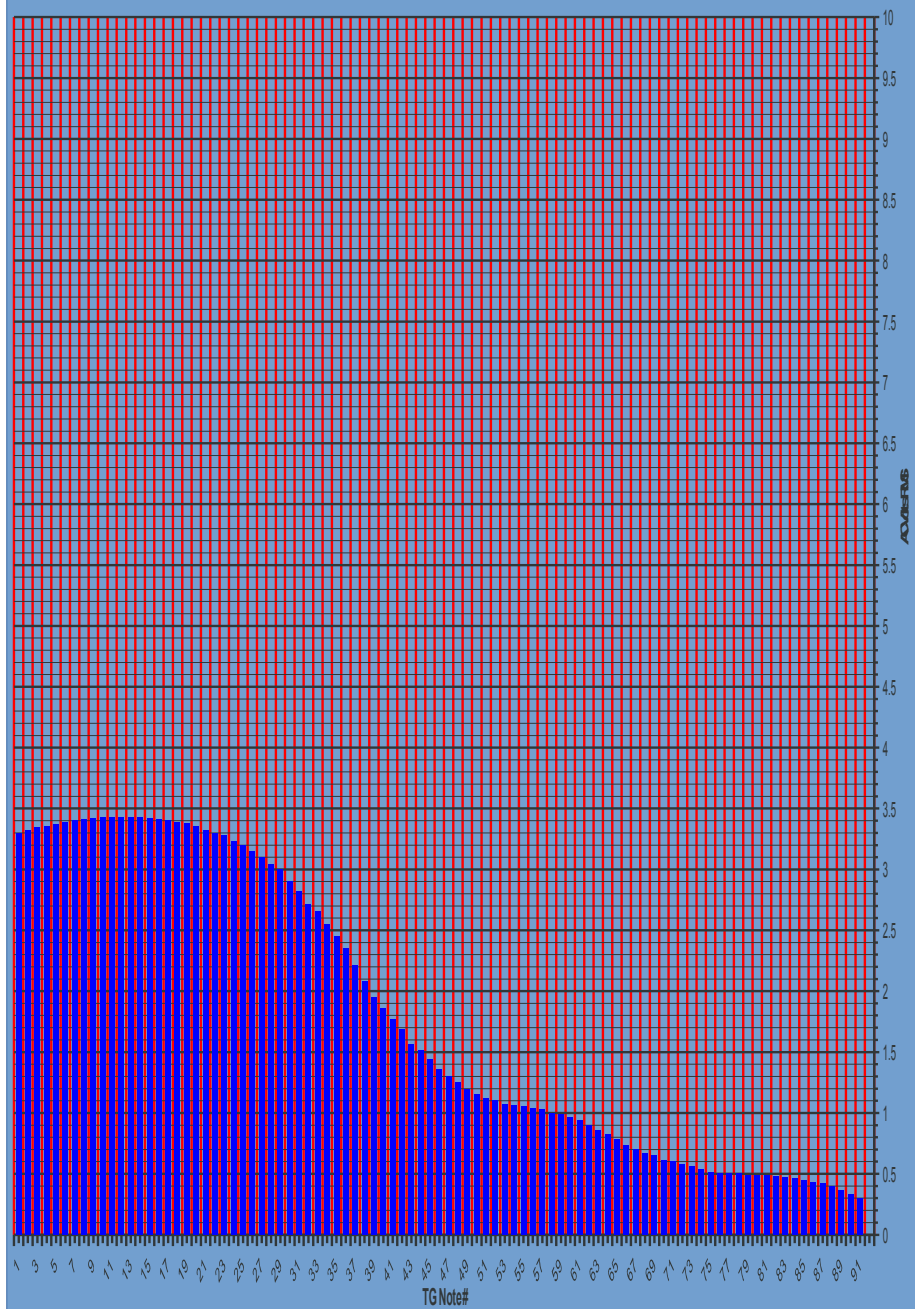
Markus's red mylar capped 1971 TR-200. Measured by Peter, 28 December 2014.



Kon's 1972 XTP S/n D 167016 With red mylar capacitors. Original TG output levels. Sweet sound.



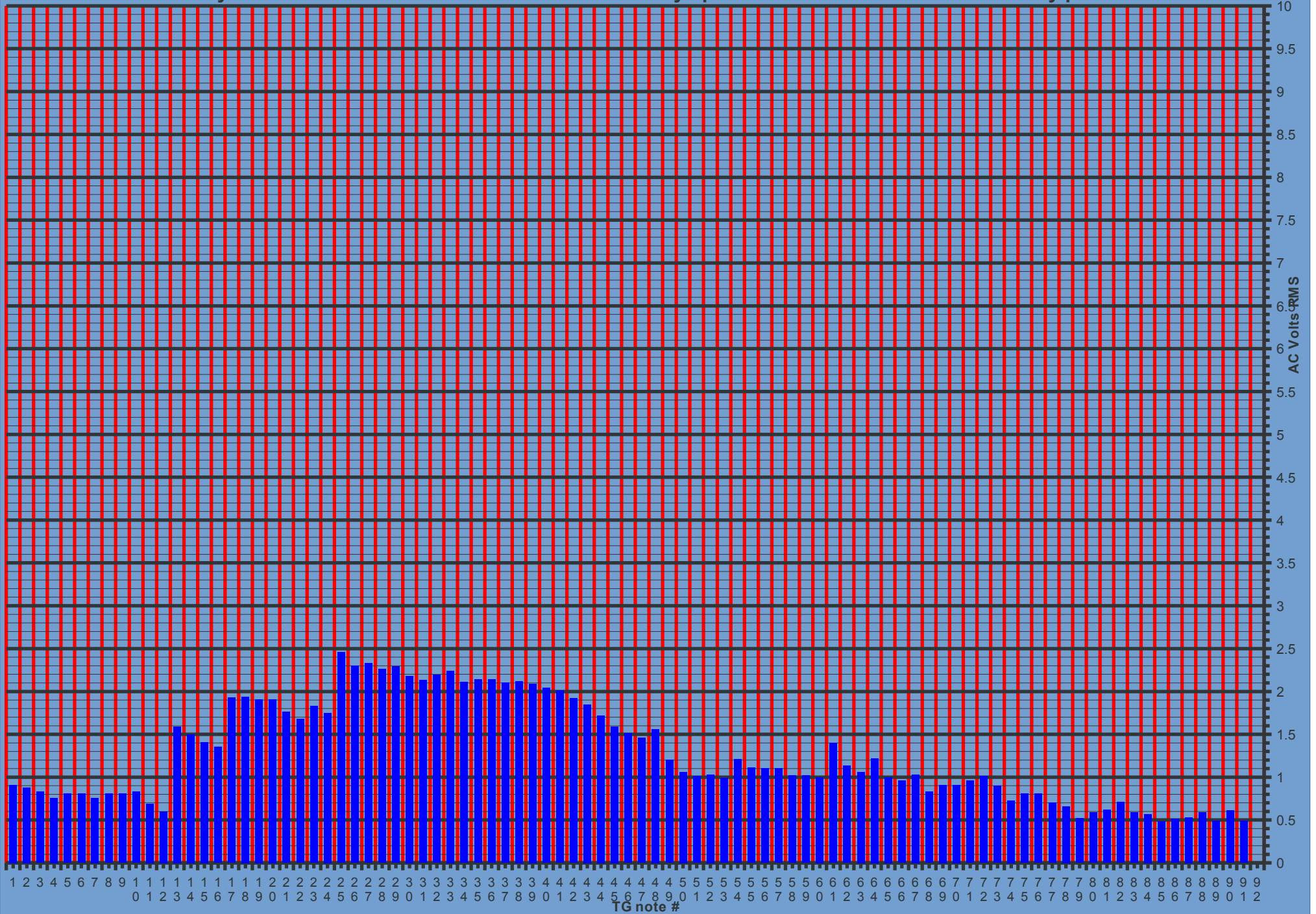
Old Hammond output curve graph titled "APPROXIMATE OUTPUT VOLTAGE READINGS OF ORGAN GENERATOR FREQUENCIES 1 TO 91". Chart 1 Early Model B organs Serial number 4000 to 5075 and early Model E organs with Serial numbers below 8000. No manual tapering.



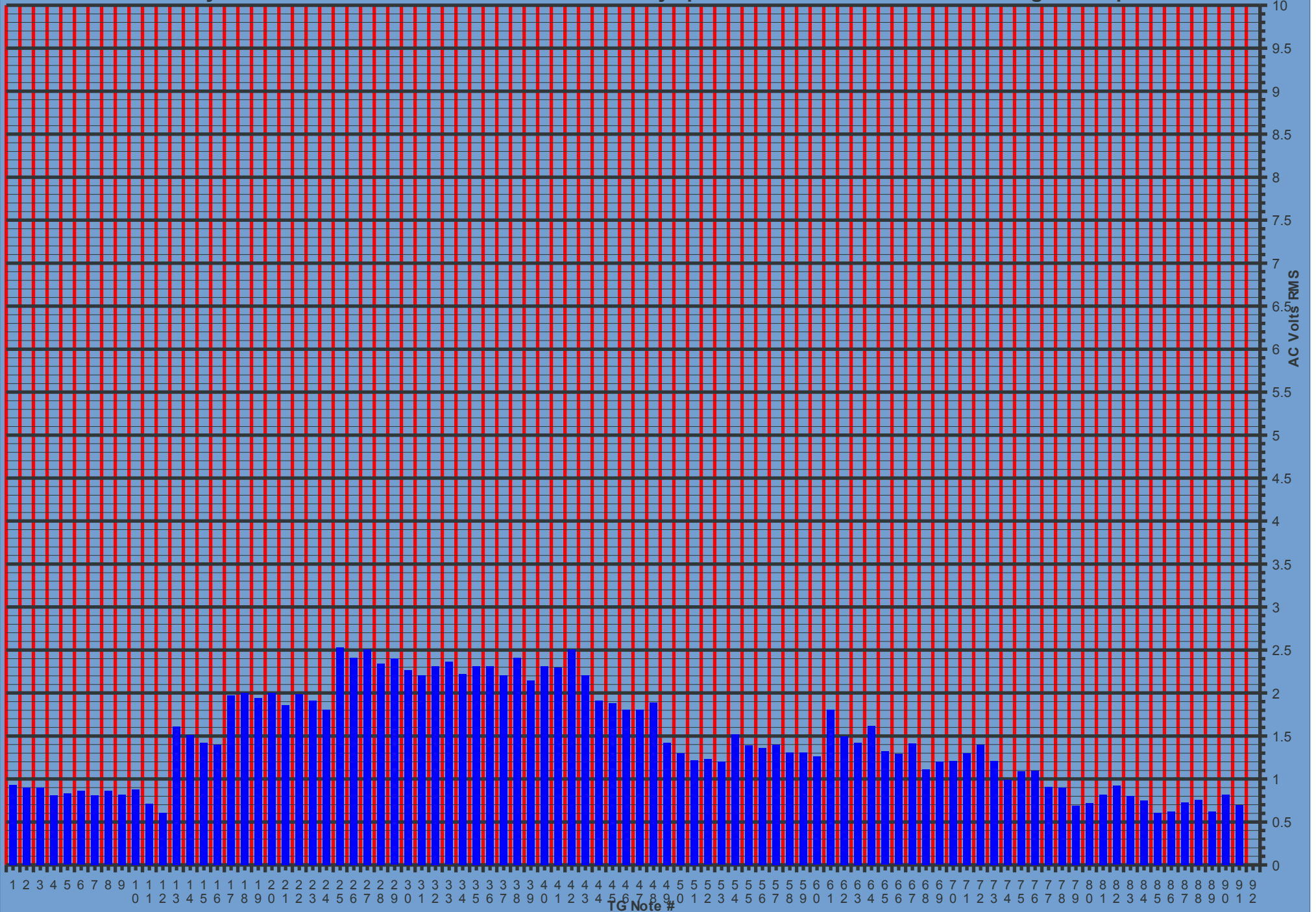
Old Hammond graph called "APPROXIMATE OUTPUT VOLTAGE READINGS OF ORGAN GENERATOR FREQUENCIES 1 TO 91". Chart 2. Model B organs with Serial numbers above 5075 and Model E organs with Serial numbers above 8000. With manual tapering and bass foldback.



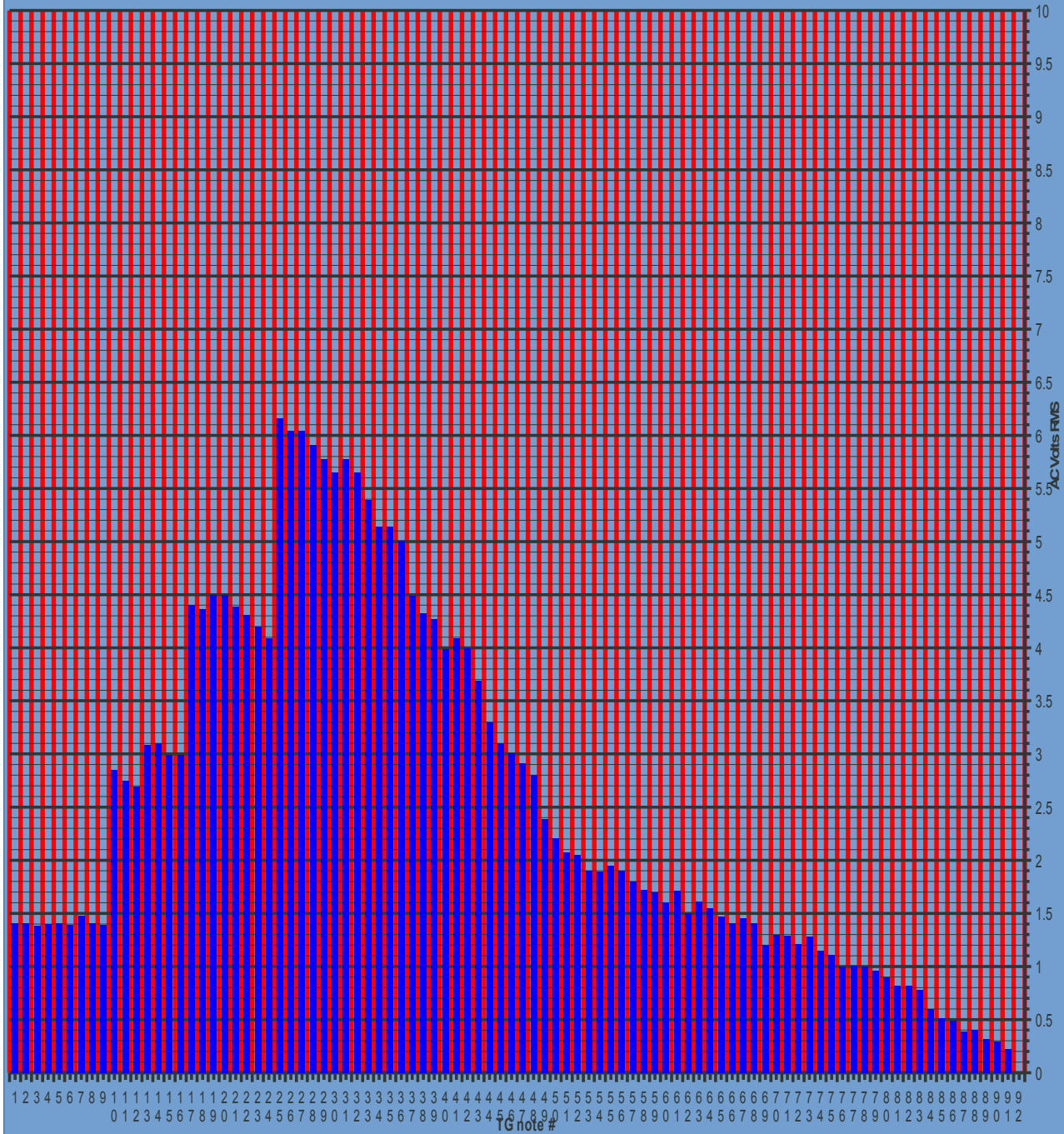
Ray's 1959 C3 s/n 800775. GG + drawbars and keys pressed. Tone Control set at halfway position



Ray's 1959 C3. S/n 80775. GG + drawbars and keys pressed. Tone Control set to full brightness position.



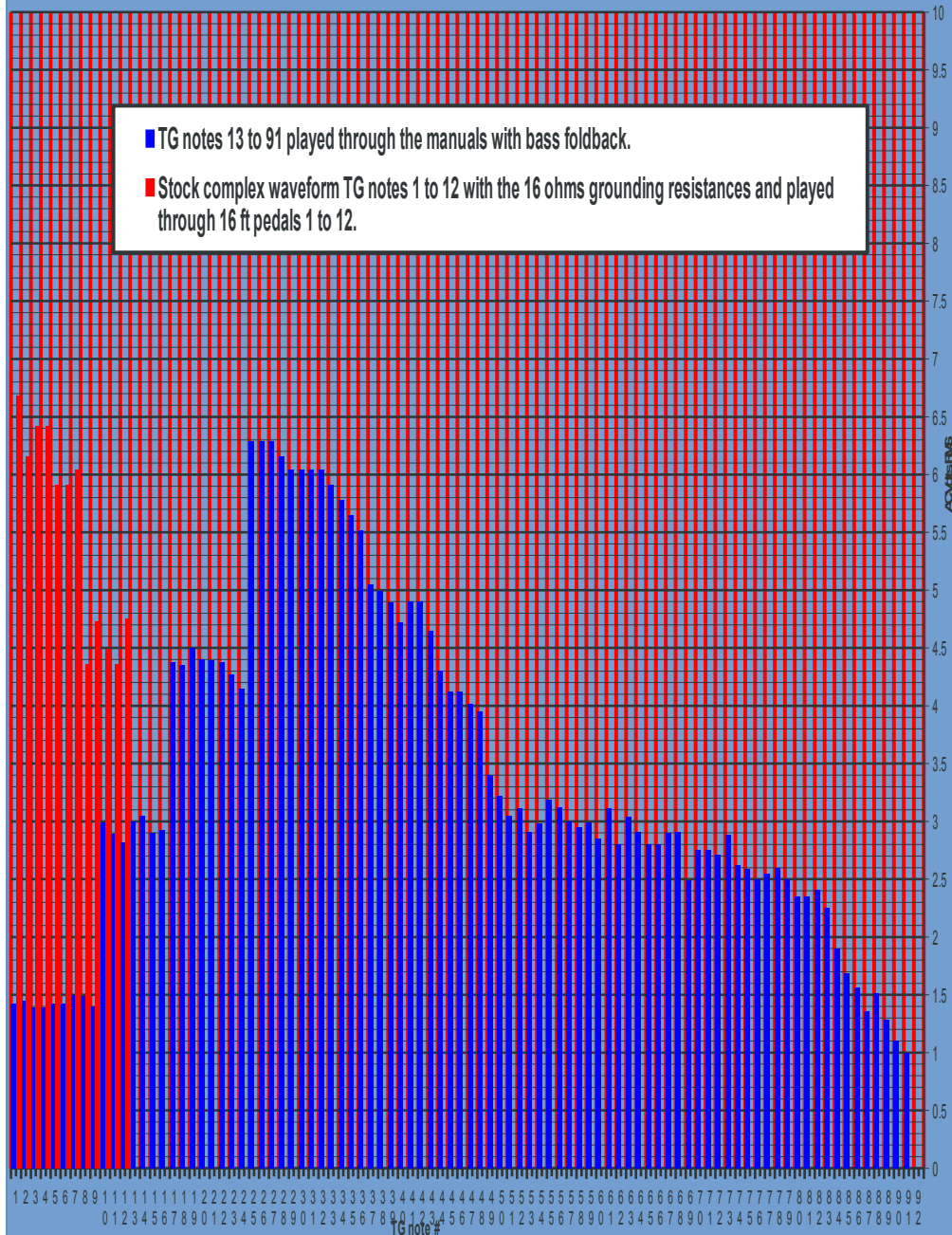
Kon's 1962 C3. April 2007 TG curve. TG notes 13 to 91 played through the manuals with bass foldback. Gain trimmer capacitor at 1 1/2 turns. Tone Control at halfway.



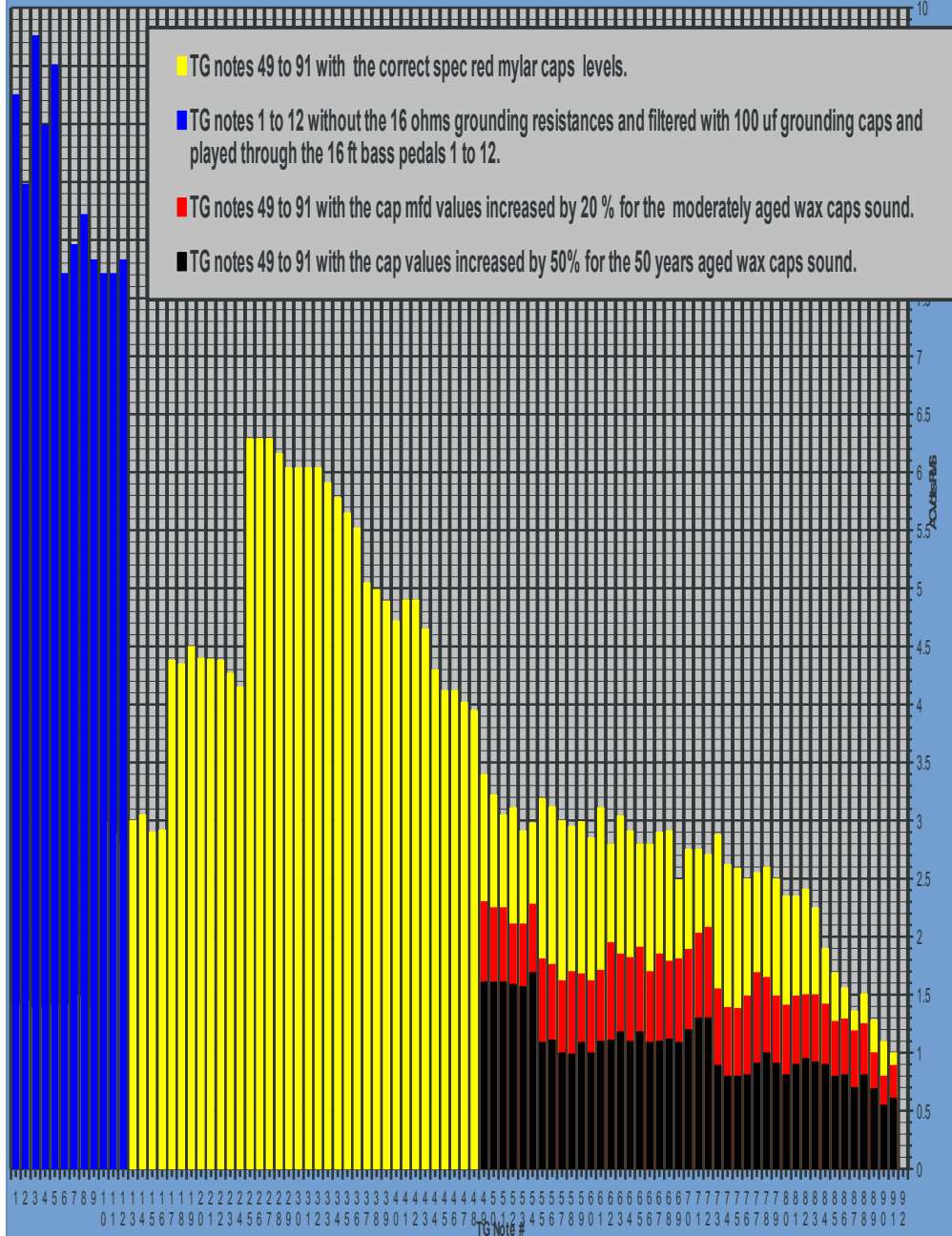
Kon's 1962 C3. April 2007 TG curve. TG notes 1-12 filtered with 100uf grounding caps and played through pedals 1 to 12. TG notes 13 to 91 played through manuals with bass foldback. Gain trimmer cap set at 1 1/2 turns. Tone control set at full brightness.



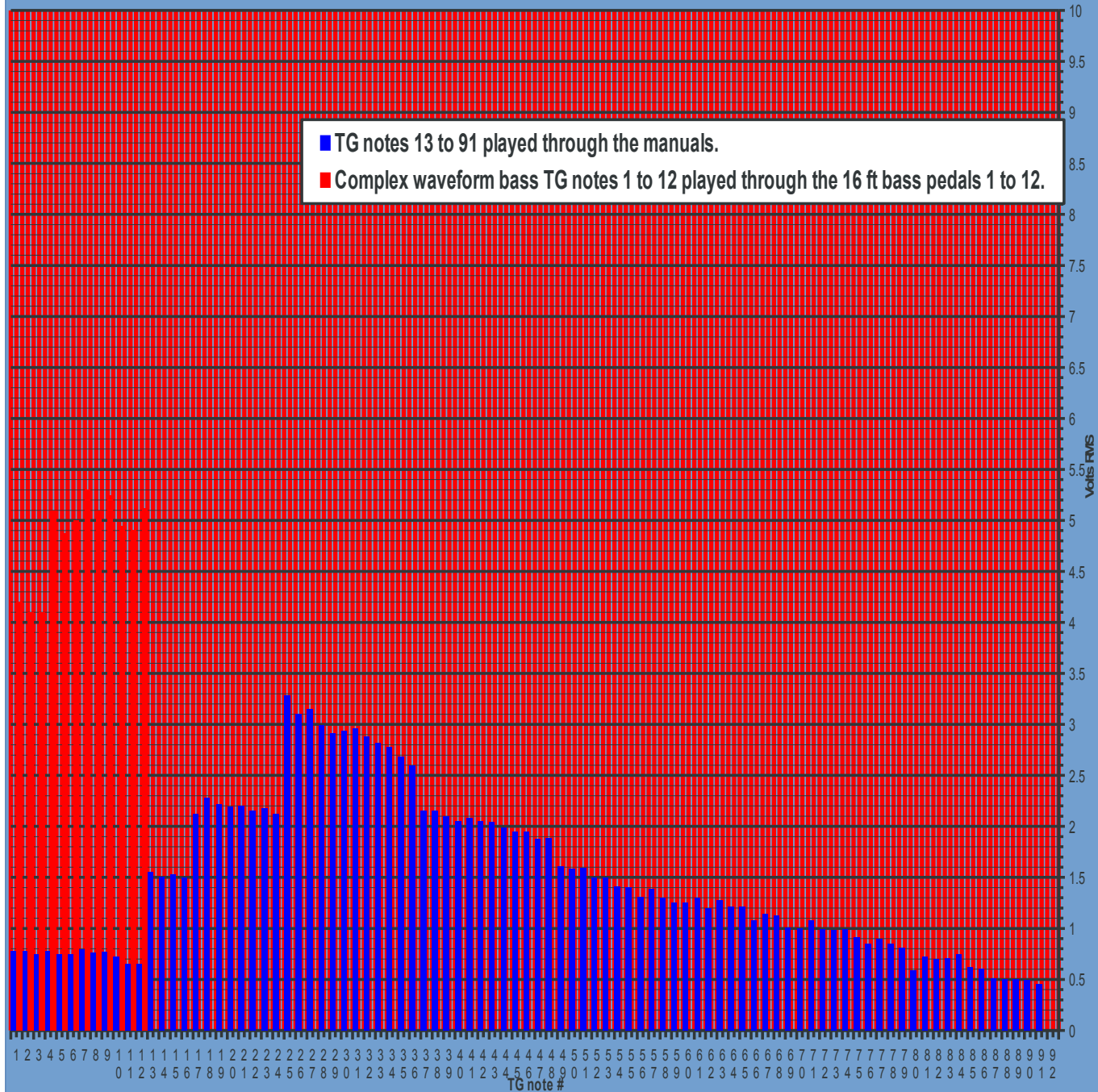
Kon's 1962 C3. April 2007 TG curve. Complex waveform TG notes 1 to 12 played through 16 ft bass pedals 1 to 12. TG notes 13 to 91 played through the manuals with bass foldback. Gain trimmer cap set at 1 1/2 turns. Tone control set at full brightness.



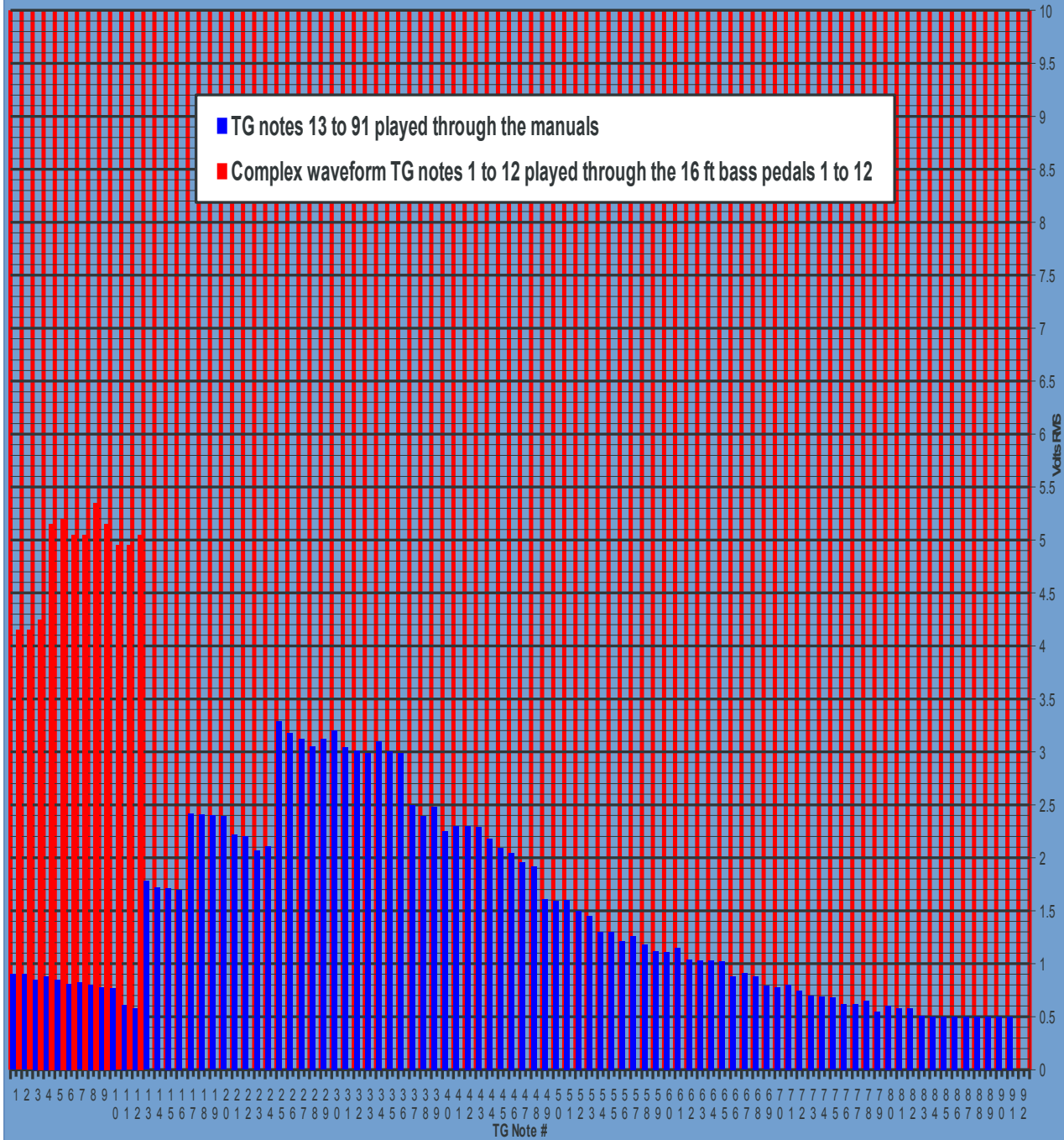
Kon 62 C3 April 2007 TG curve. Comparison between the red mylar caps and the mfd values raised by 20% and by 50% to create the moderately aged and the 50 year aged wax caps sound. Gain trimmer cap set at 1 1/2 turns. Tone control set at full brightness.



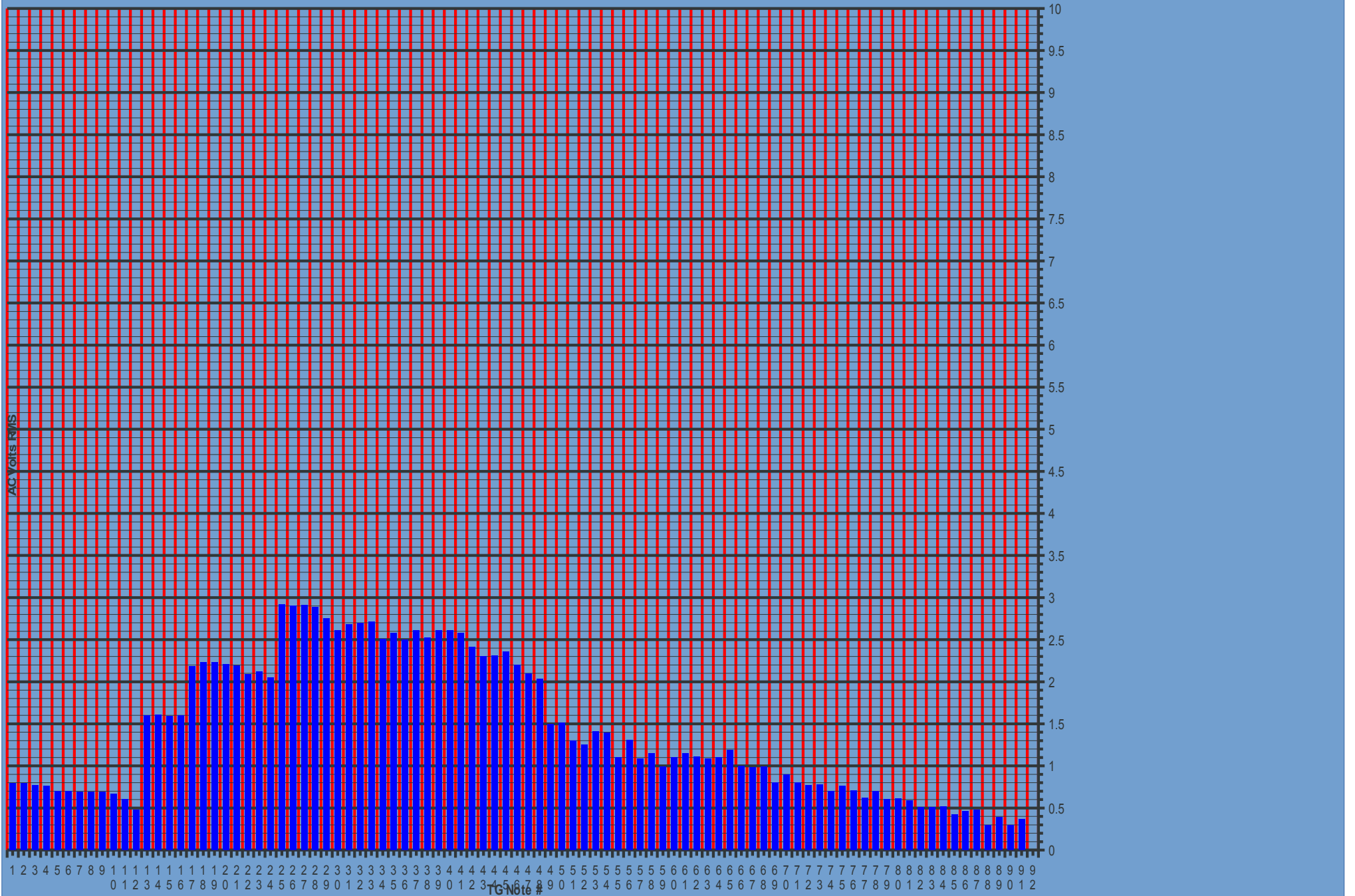
Kon's red mylar capped 1965 C3. January 4 2008 TG recalibration. GG + Drawbars and pressed keys. Tone Control at full brightness. Gain trimmer cap set at one and a half turns.



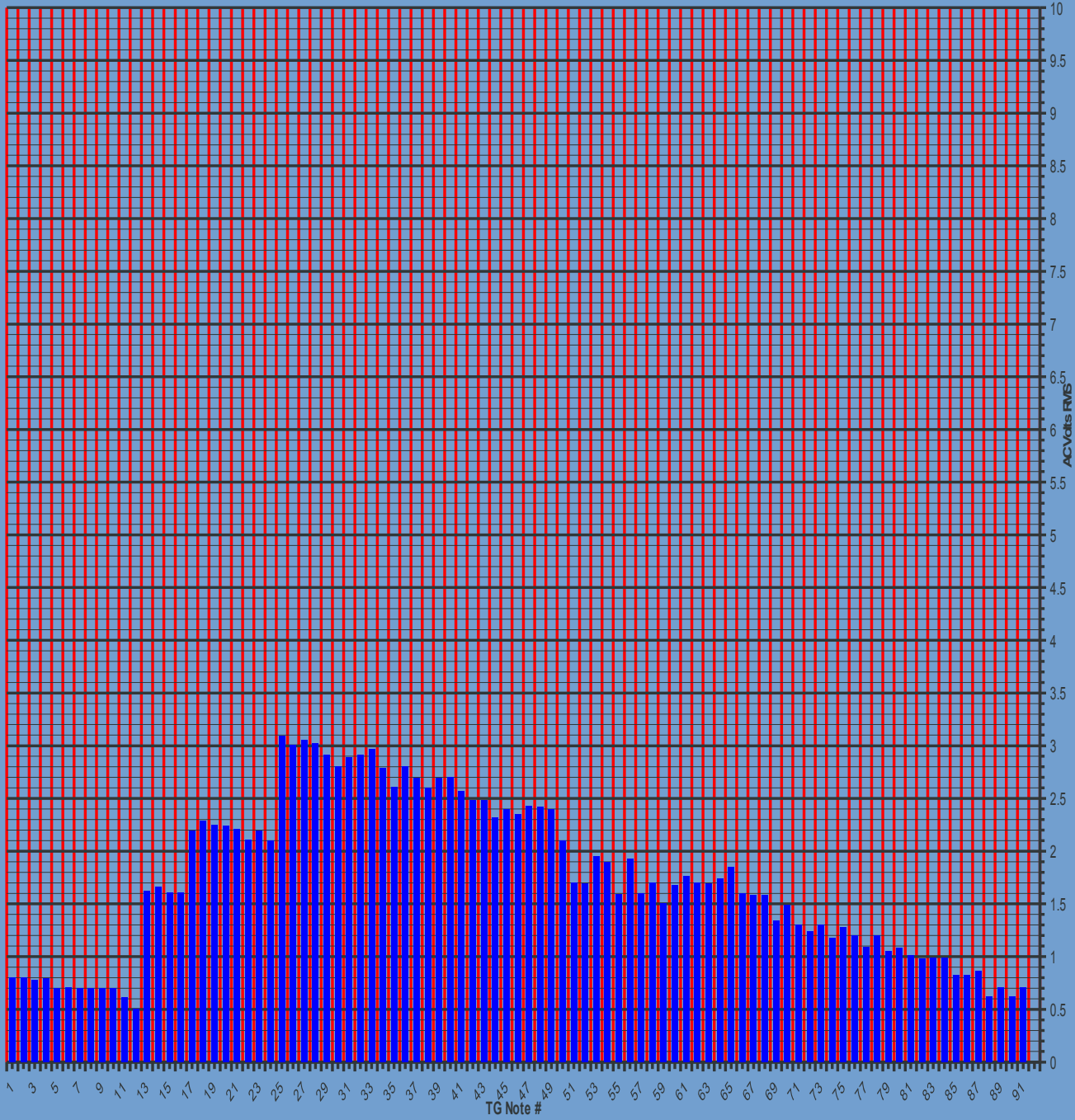
Kon's red mylar capped 1965 C3 18 August 2008 TG recalibration. GG outputs +drawbars and pressed keys. Tone Control set at full brightness. Gain trimmer capacitor set at one and a half turns.



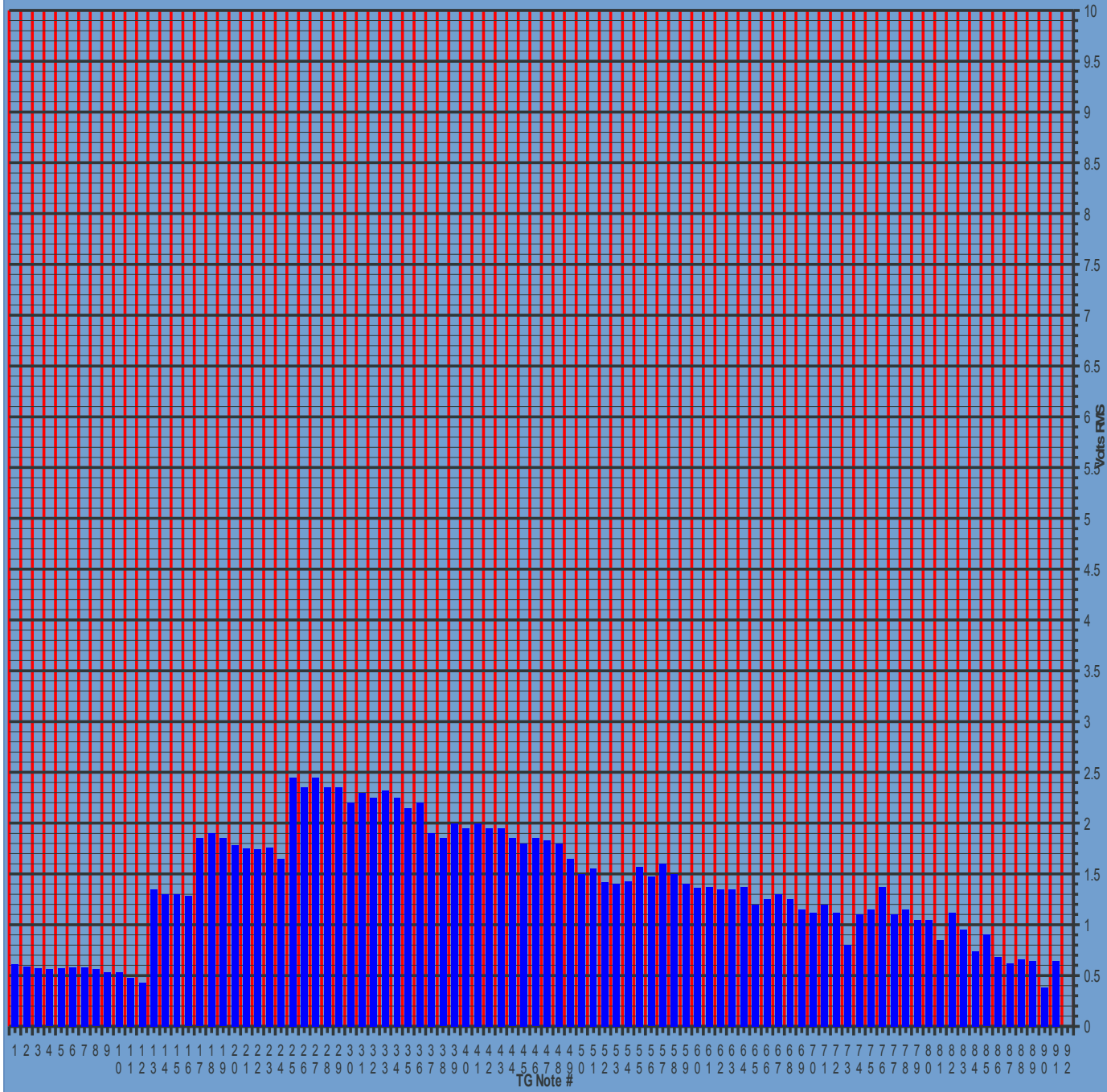
Phil's 1965 C3 with red mylar capacitors . GG +Drawbars and pressed keys. Tone control at half way position. Gain trimmer cap at one & a half turns.



Phil's 1965 C3 with red mylar capacitors. GG + Drawbars and pressed keys. Tone cocontrol at full brightness position. Gain trimmer capacitors set at one and a half turns. AC Volts RMS.

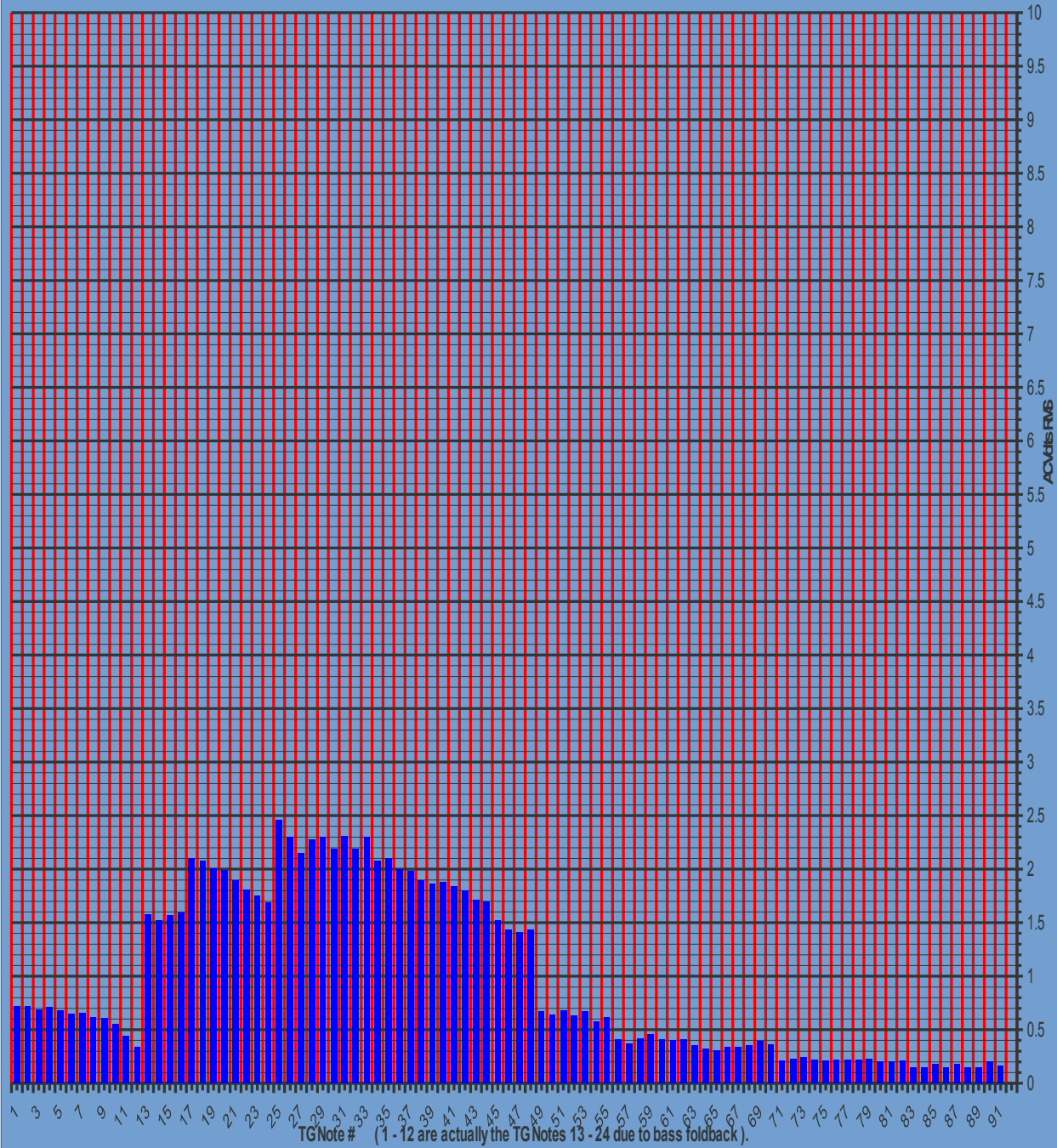


Bernard's 1973 C3.(1) GG + drawbars & pressed keys. Bass Foldback at keyboard notes 1 - 12. Gain trimmer capacitor at zero turns. Tone Control at halfway position. Volts RMS .

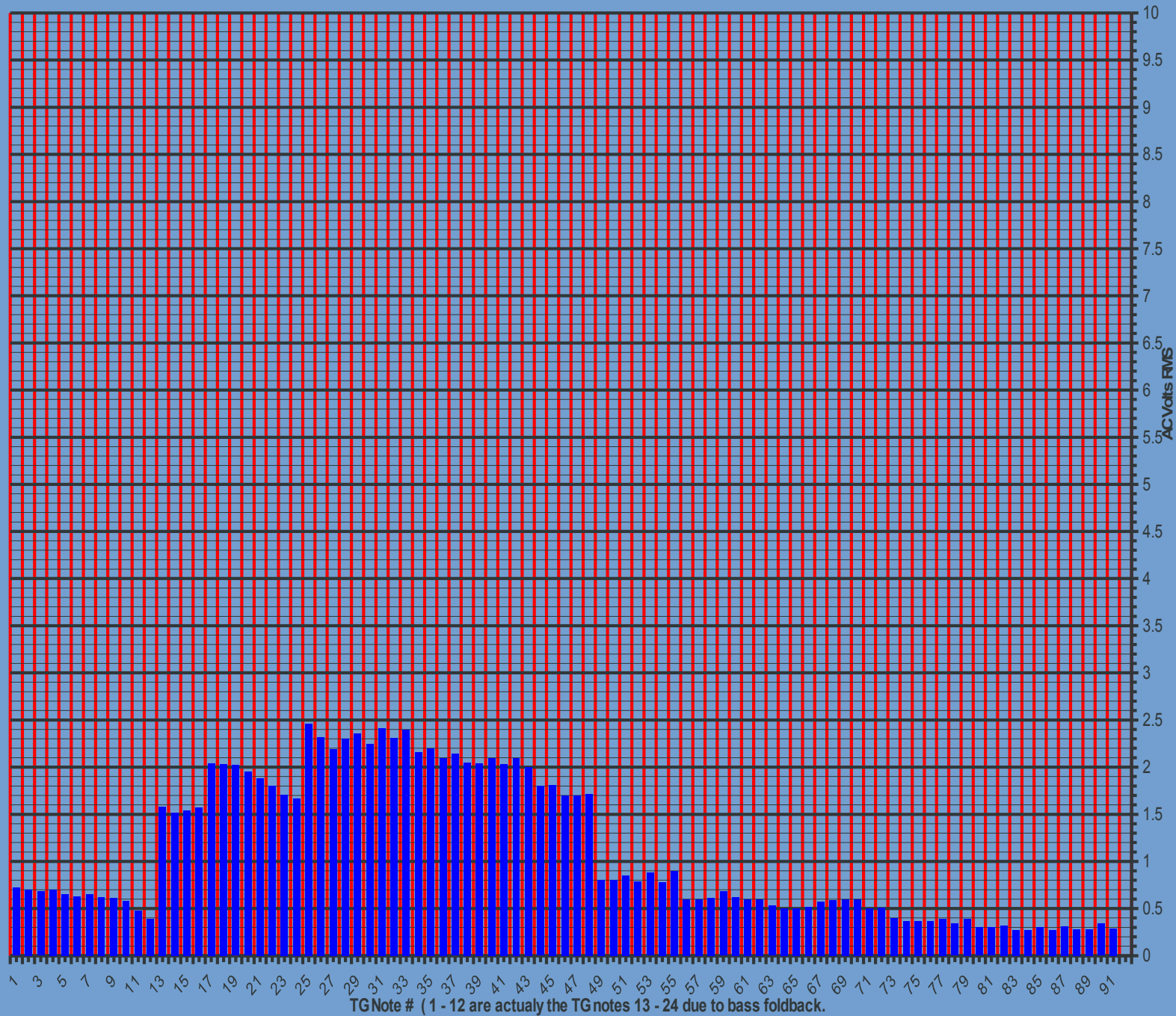


Church 1960 RT3 with aged wax capacitors. (1) GG + Drawbars & pressed keys as in old Hammond graph .

Tone Control at halfway position.

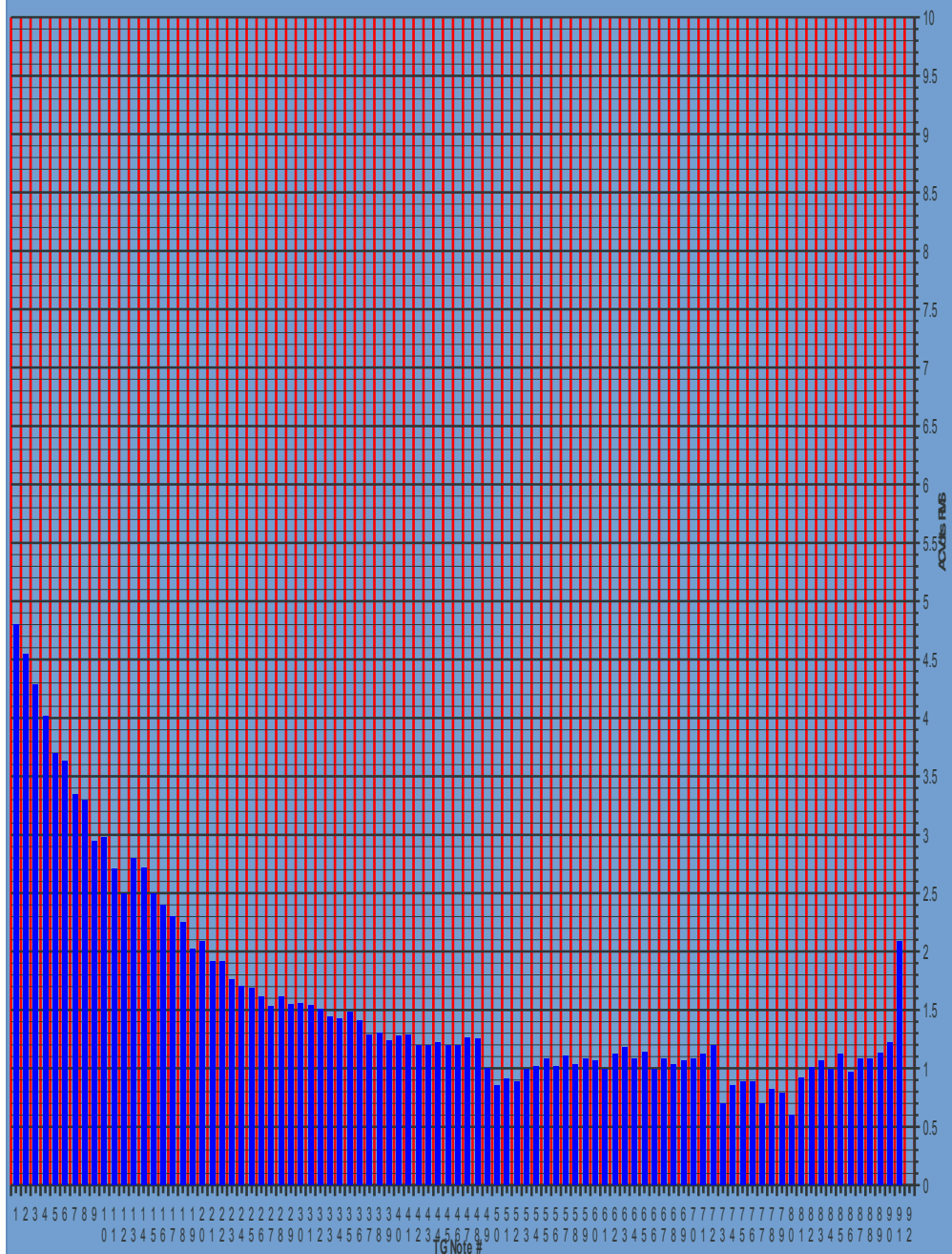


Church 1960 RT3 with aged wax capacitors. (2) GG + Drawbars & pressed keys as in old Hammond graph. Tone Control at full brightness position.

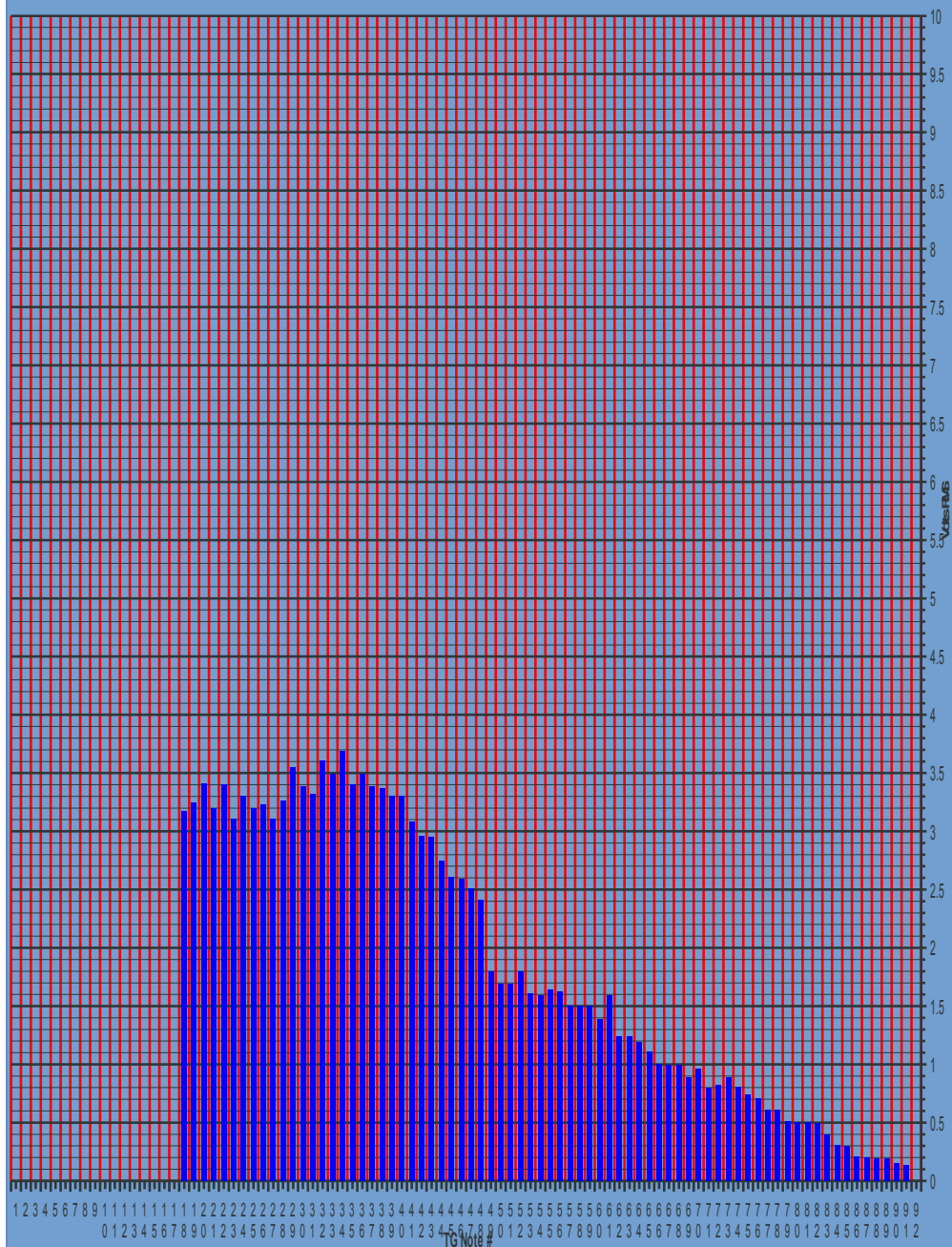


TG Note # (1 - 12 are actually the TG notes 13 - 24 due to bass foldback.

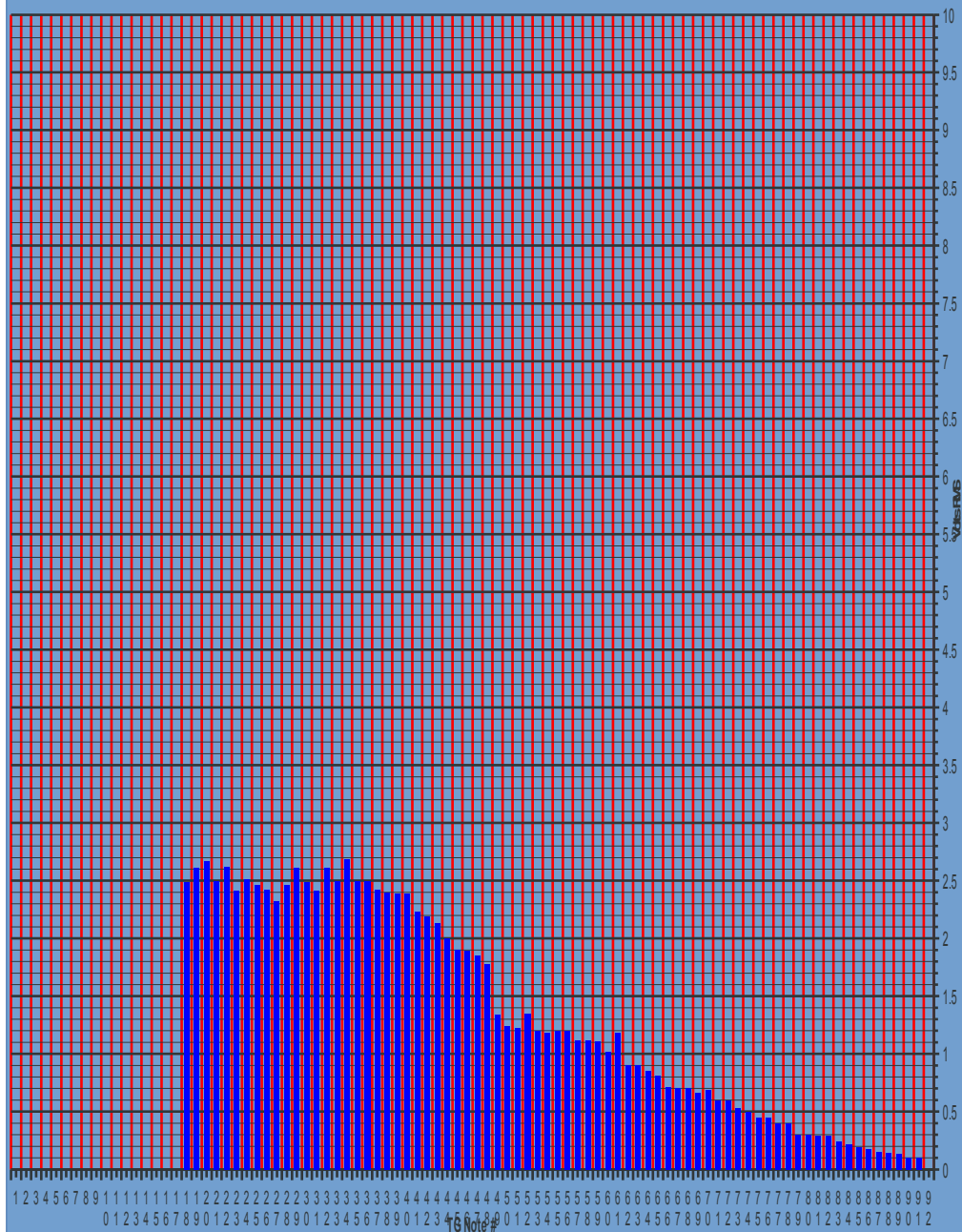
Ray's 1973 - 75 ? R-124 S/n 375184 No manual tapering. Sinewave bass TG notes 1 to 12 . No bass foldback. Output levels measured from the headphone socket. TG notes 1 - 61 through 16 ft drawbar .TG notes 62 - 91 through 1ft drawbar AC Volts RMS



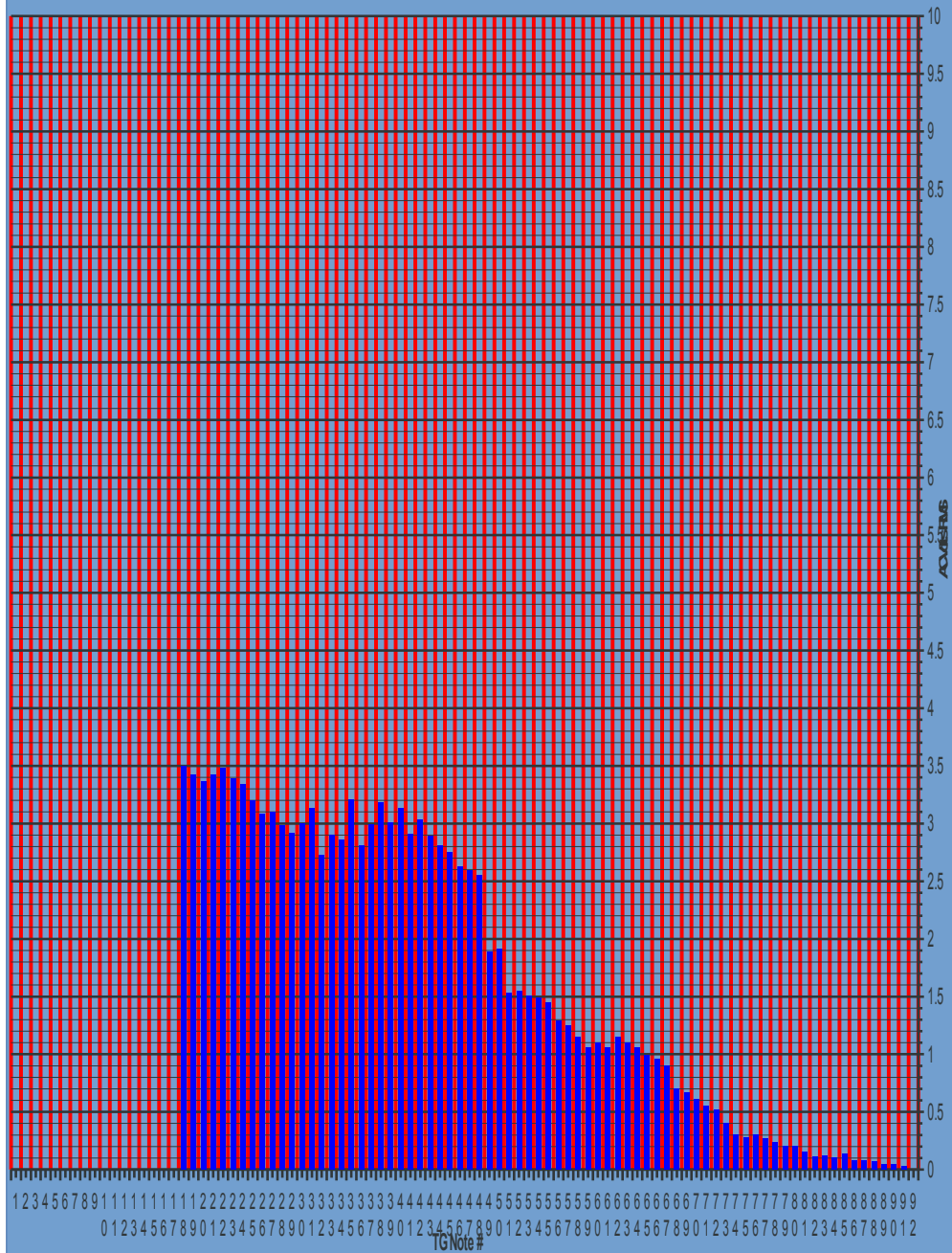
Steve's recalibrated 1968 - 71 ? T-300 with red mylar caps. Brilliance tablet 'On'. Signal from headphone socket attenuated so that the TG note 25 reads at 3.2 volts RMS in order to compare the output curve with the old Hammond CHART 1 . Volts RMS



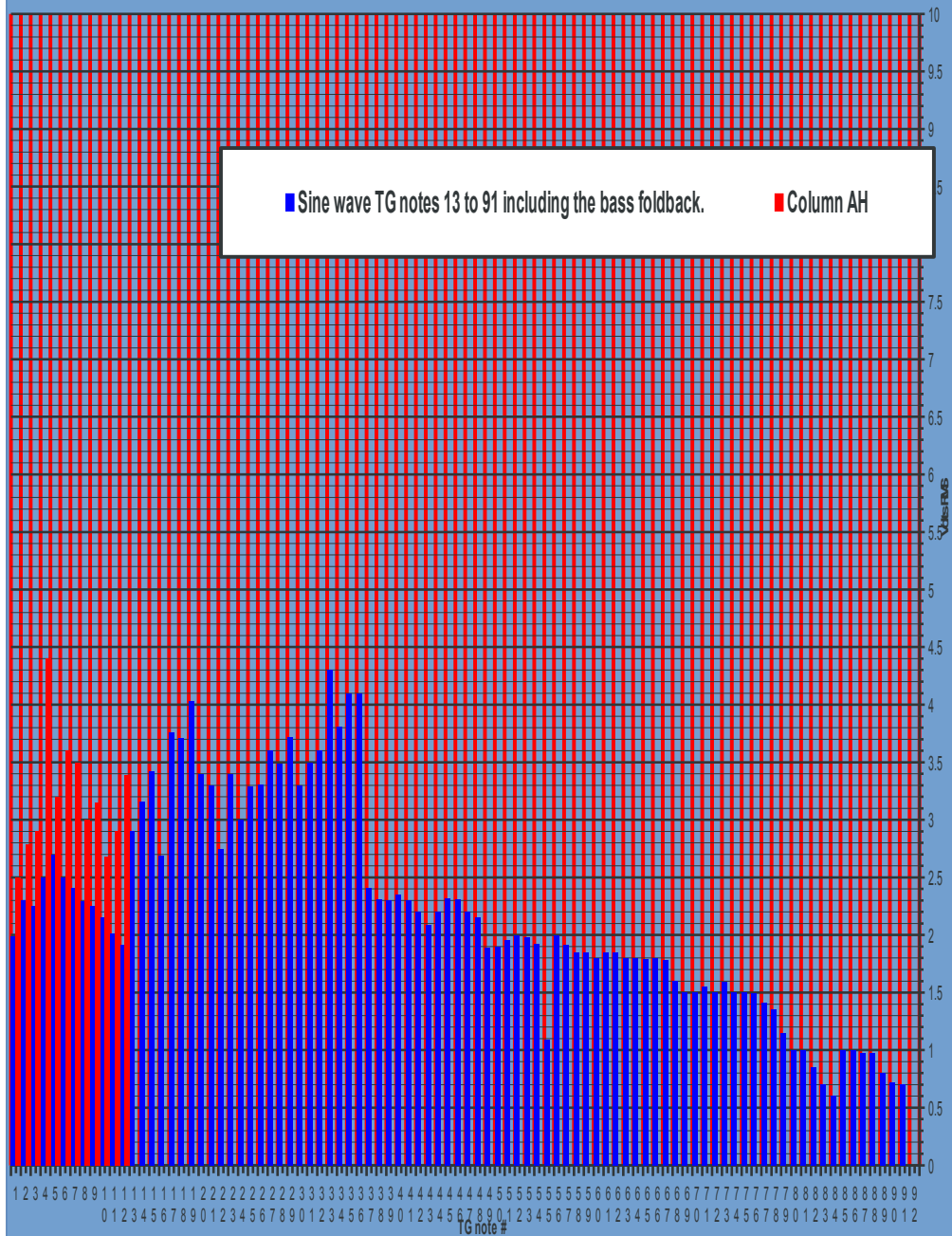
Steve's recalibrated 1968 - 71 ? T - 300 with red mylar caps. Brilliance tablet 'On'. Signal from headphone socket attenuated so that the TG note 25 reads at 2.46 volts RMS in order to compare the output curve with the old Hammond CHART 2. Volts RMS



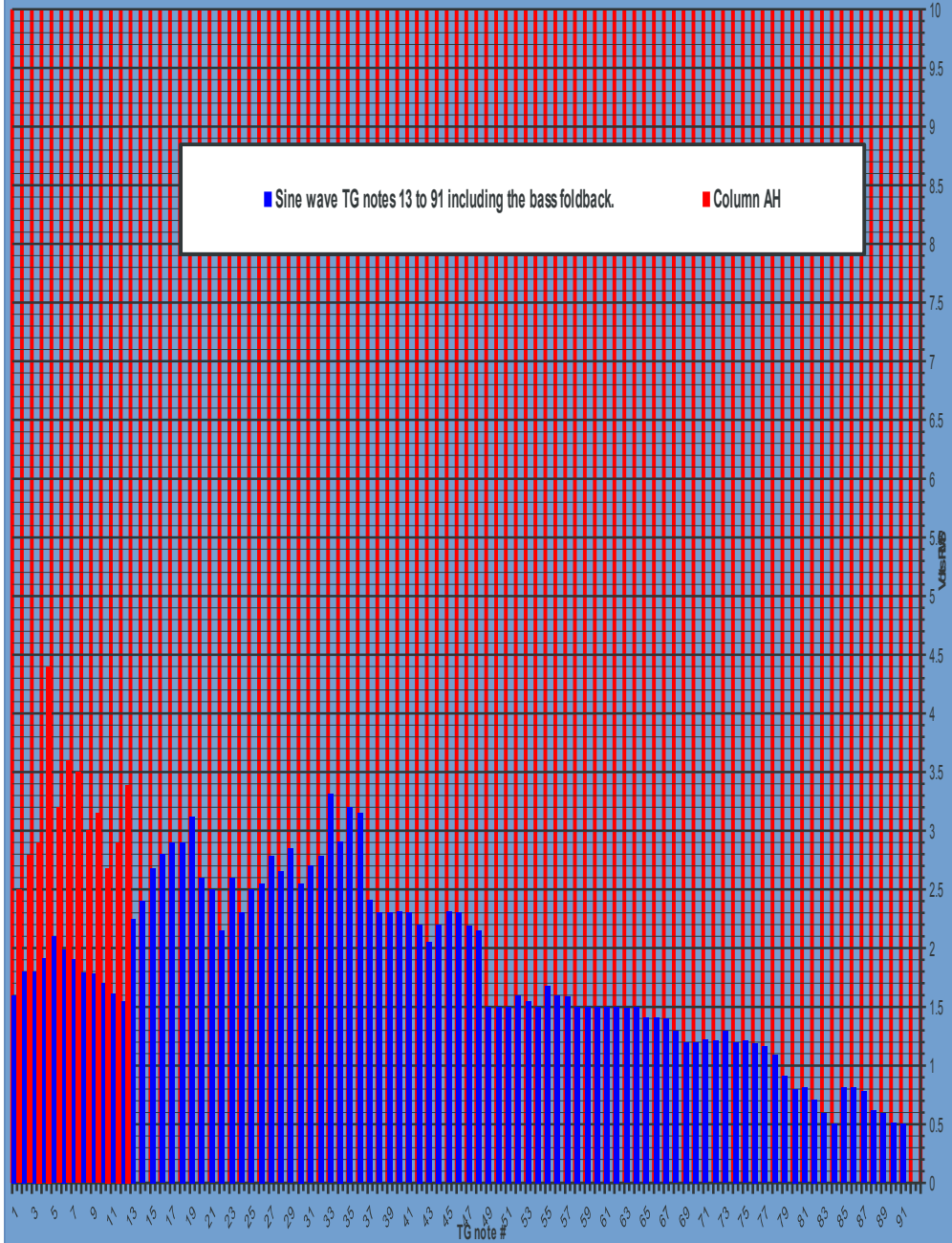
Kon's recalibrated red mylar capped 1972 XTP.R/C hum filters removed. Brilliance tablet "on". Measured through headphone socket with signal level attenuated to produce 3.2 volts RMS for the TG note 25 for comparison with the old Hammond CHART 1.



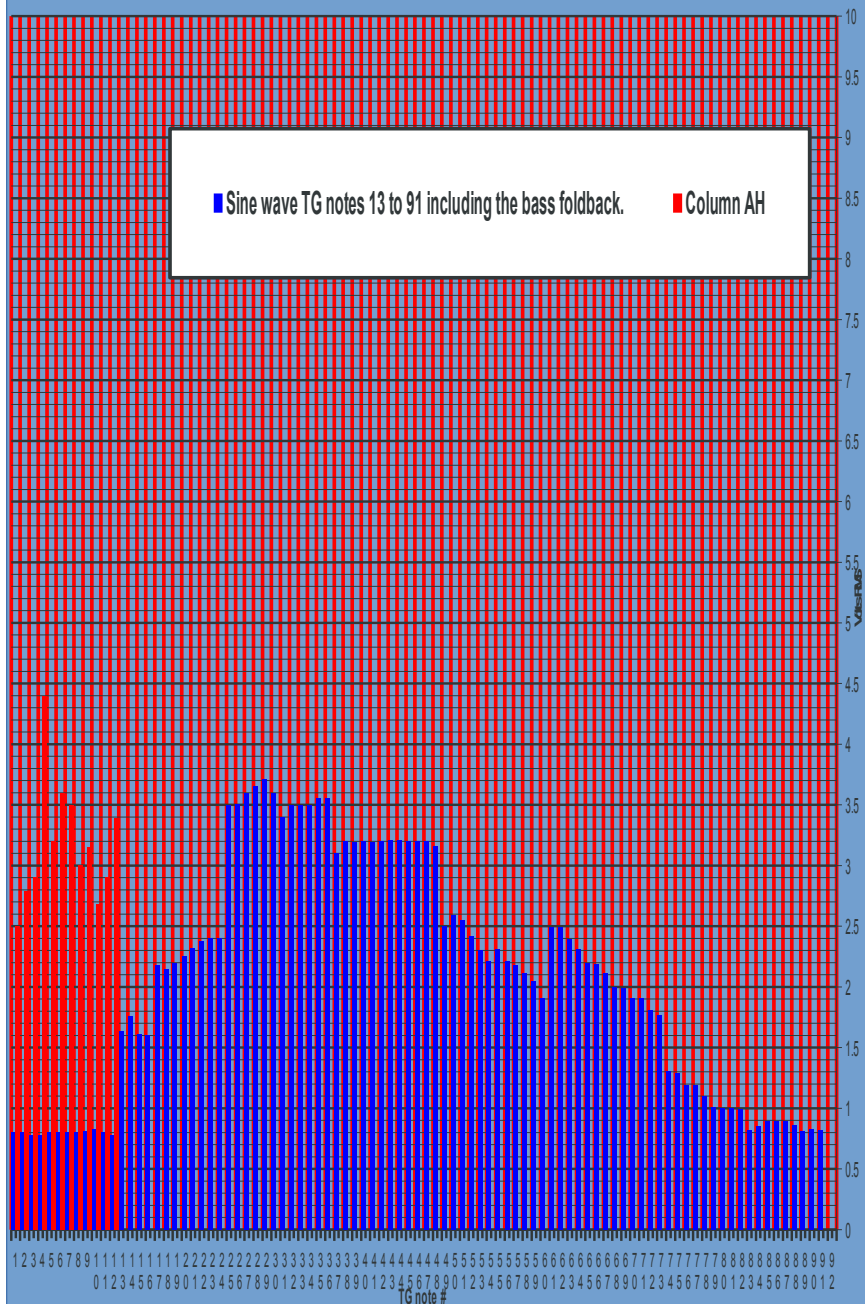
Kon's 2001 Oberheim OB-5 digital Hammond clone wheel organ put through the AO28 preamp of Kon's 1965 C3 via the Radio Phono socket. Gain trimmer capacitor set at one and a half turns. Tone Control set at full brightness. Tone wheel scaling Set 1.



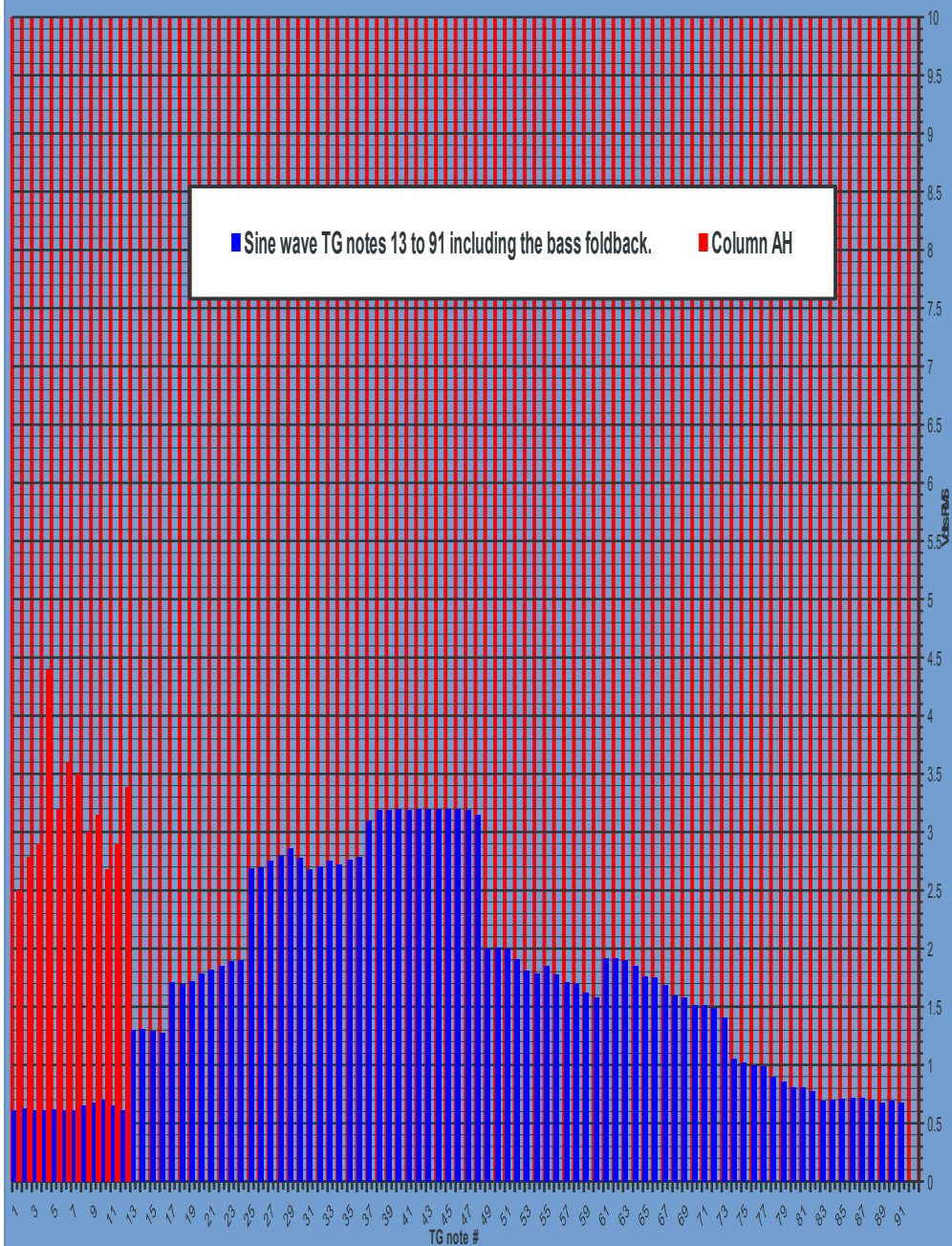
Kon's 2001 Oberheim OB-5 digital Hammond clone wheel organ put through the AO28 preamp of Kon's 1965 C3 via the Radio Phono socket. Gain trimmer capacitor set at one and a half turns. Tone Control set at full brightness. Tone wheel scaling Set 2.



Kon's 2001 Oberheim OB-5 digital Hammond clone wheel organ put through the AO28 preamp of Kon's 1965 C3 via the Radio Phono socket. Gain trimmer capacitor set at one and a half turns. Tone Control set at full brightness. Tone wheel scaling Set 3.



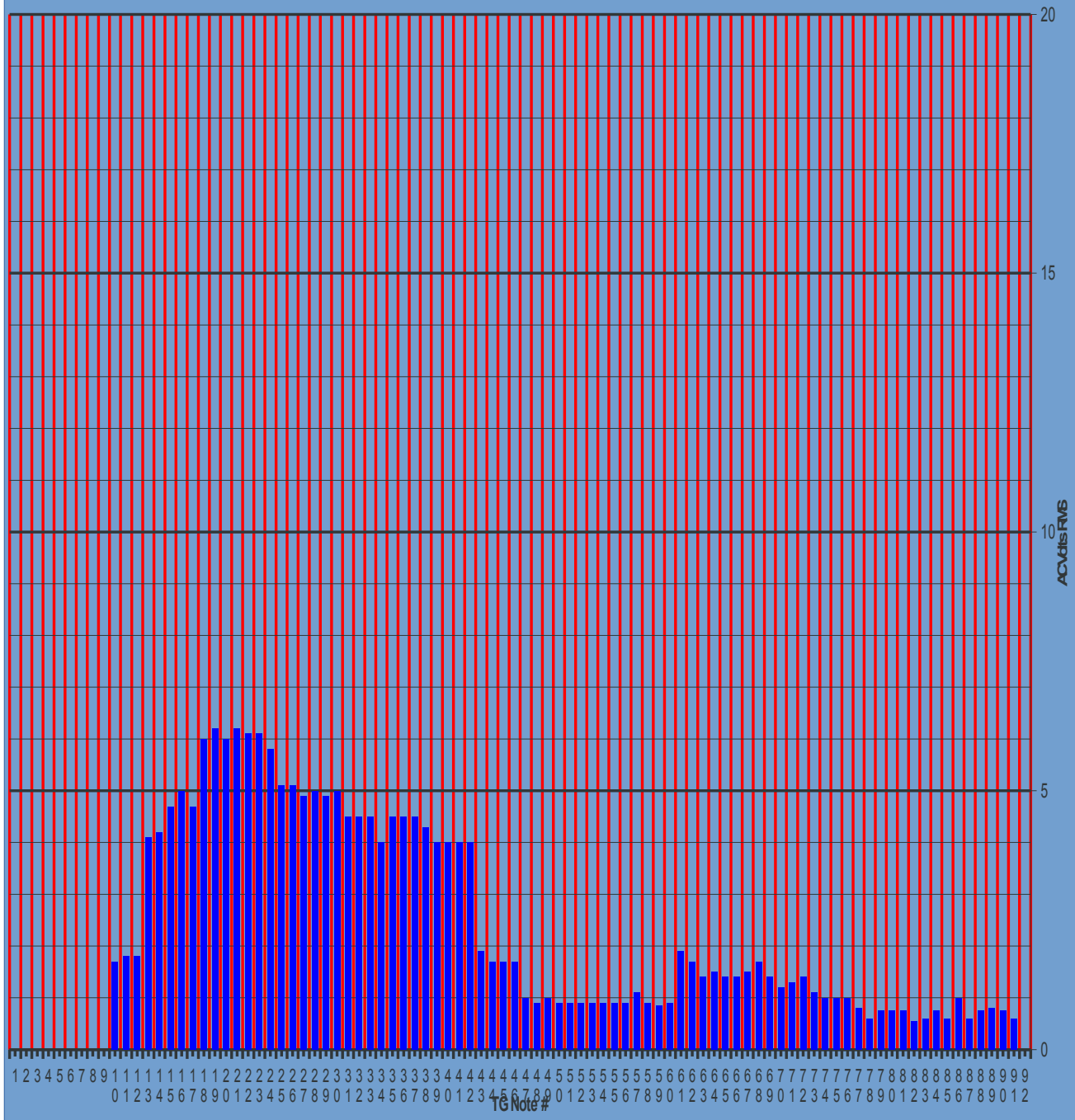
Kon's 2001 Oberhein OB-5 digital Hammond clone wheel organ put through the AO28 preamp of Kon's 1965 C3 via the Radio Phono socket. Gain trimmer capacitor set at one and a half turns. Tone Control set at full brightness. Tone wheel scaling Set 4.



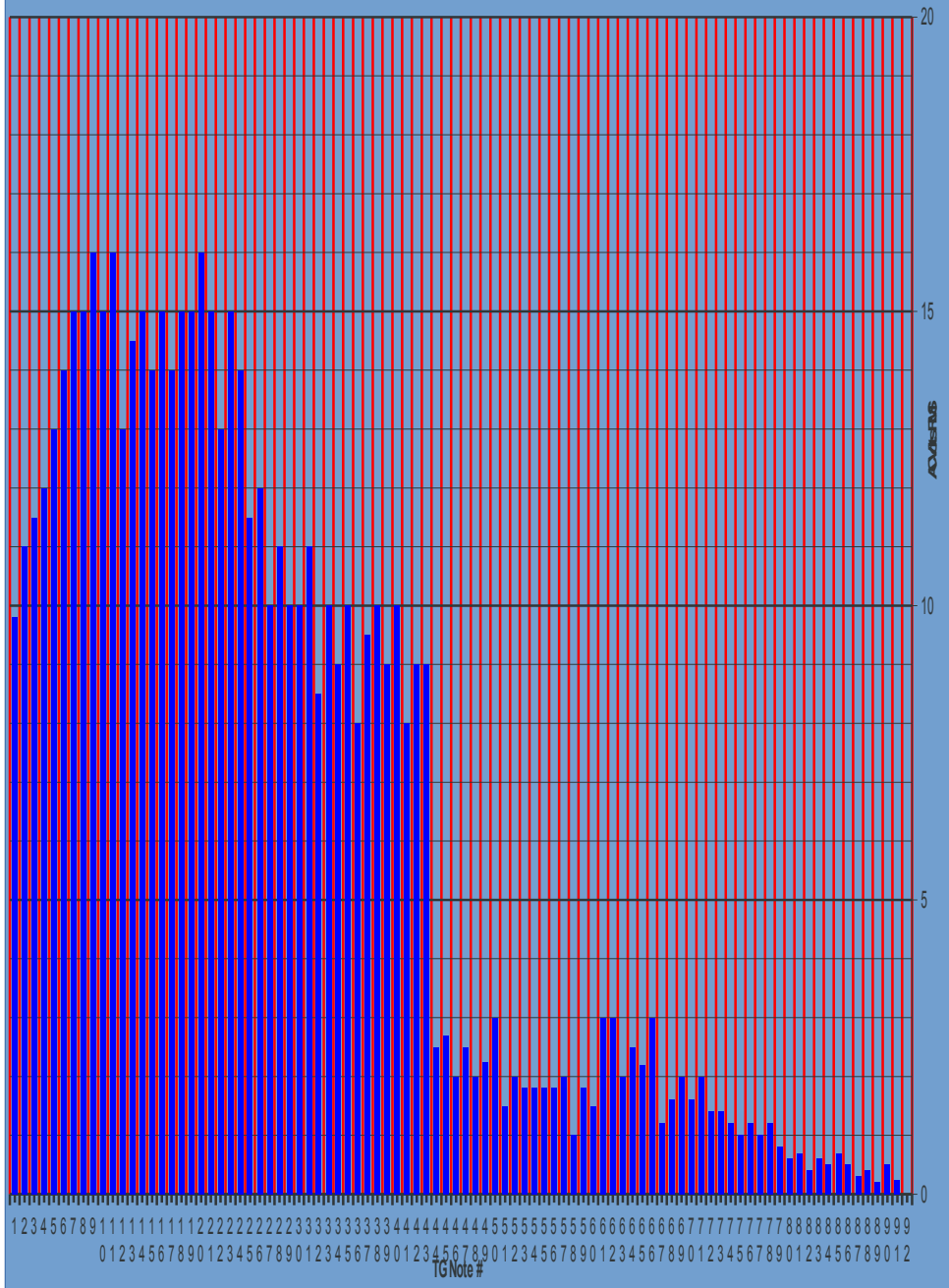
Hammond Tone wheel Generator output levels in AC volts RMS measured with a voltmeter connected to the preamplifier GG outputs whilst each TG note is connected to a preset panel busbar, as instructed in the Hammond B3 / C3 service manual. The service manual instructs to connect the TG notes to the fourth (fifth from the bottom) busbar but the actual TG output levels shown on the service manual chart seem to indicate that the TG notes should be connected to the fifth (sixth from the bottom) busbar. The expression pedal should be at the full volume position, the vibrato / chorus controls should be in the "off" position and I presume that the Tone Control should be set to the full brightness position and the gain trimmer capacitor should be as set at the factory at approximately one and a half turns anticlockwise from the zero position. The tone cabinet or Leslie should be disconnected from the organ and the Leslie kit might possibly need to be disconnected from the GG outputs so that the GG outputs are not loaded down thus giving a false reading on the voltmeter.

TG Note	9.8	7.9	7.9	7.9	11.56	12.33	12.33	12.33	12.33	7.63	4.8	7.5	3.68
1													
2													
3													
4													
5													
6													
7													
8													
9													
10	1.7												
11	1.8												
12	1.8												
13	4.1	14.5	9.15	11.85	11.9	19.2	19.2	19.2	19.2	16.45	8.2	15	8.47
14	4.2	15	8.93	11.23	11.2	19.2	19.2	19.2	19.2	16.14	8	14	8.86
15	4.7	14	9.27	10.34	10.3	18.6	18.6	18.6	18.6	16.18	7.7	13	7.9
16	5	15	9.28	10	10	17.9	17.9	17.9	17.9	16.12	7.65	13.5	8.66
17	4.7	14	8.33	10.27	10.18	17.9	17.9	17.9	17.9	15.22	6.9	11	8.19
18	6	15	8.32	10.43	10.4	17.3	17.3	17.3	17.3	14.35	7.1	13	8.24
19	6.2	15	9.13	10.72	10.75	17.9	17.9	17.9	17.9	15.17	6.5	12.5	8.04
20	6	16	8.91	10.6	10.6	17.3	17.3	17.3	17.3	14.62	7	12	7.99
21	6.2	15	8.27	9.55	9.58	17.3	17.3	17.3	17.3	14.63	6.3	12.5	7.83
22	6.1	13	8.1	10.38	10.4	16.7	16.7	16.7	16.7	13.56	6.5	11	7.9
23	6.1	15	8.32	9.69	9.7	16.7	16.7	16.7	16.7	13.2	6.9	12.5	8.06
24	5.8	14	8.54	9.22	9.2	16.7	16.7	16.7	16.7	12.71	5.9	11	7.56
25	5.1	11.5	6.73	9.24	9.1	17.3	17.3	17.3	17.3	11.5	6.2	11	6.52
26	5.1	12	6.5	8.72	8.7	16.7	16.7	16.7	16.7	11	5.6	11	6.69
27	4.9	10	6.28	8.66	8.6	16.7	16.7	16.7	16.7	10.19	5.9	10.5	6.31
28	5	11	5.91	8.13	8.15	16	16	16	16	10.37	5.8	10	6.39
29	4.9	10	5.77	8.2	8.2	16	16	16	16	10.68	5.7	10	6.21
30	5	10	5.8	7.36	7.4	16	16	16	16	10.04	5.2	9.9	6.06
31	4.5	11	5.45	8.43	8.25	16.7	16.7	16.7	16.7	11.07	5.3	10	6.45
32	4.5	8.5	5.56	7.9	7.8	16	16	16	16	10.58	5.7	10	6.39
33	4.5	10	5.37	8.3	8.2	16	16	16	16	11.04	5.4	10	6.22
34	4	9	4.91	7.67	7.6	15.4	15.4	15.4	15.4	9.83	5.7	8.8	6.02
35	4.5	10	4.87	7.86	7.85	14.7	14.7	14.7	14.7	9.5	5.4	8.5	5.8
36	4.5	8	4.75	7.93	7.8	14.7	14.7	14.7	14.7	9.51	5	8.5	5.64
37	4.5	9.5	5.38	8	7.9	6.68	6.68	6.68	6.68	9.98	1.85	2.8	6.09
38	4.3	10	4.75	8.36	8.4	6.93	6.93	6.93	6.93	9.27	1.75	3.2	6.55
39	4	9	4.91	7.5	7.55	6.68	6.68	6.68	6.68	8.94	2.1	3.6	6.25
40	4	10	4.58	7.51	7.5	6.68	6.68	6.68	6.68	8.85	2	3.4	6.04
41	4	8	4.77	7.35	7.4	7.96	7.96	7.96	7.96	8.7	1.9	3.4	5.84
42	4	9	4.23	7.53	7.4	8.22	8.22	8.22	8.22	8.7	2.1	3.7	6.32
43	1.9	9	4.52	7	7	8.99	8.99	8.99	8.99	8.42	2.15	3.9	5.92
44	1.7	2.5	2.112	2.85	2.81	5.14	5.14	5.14	5.14	2.7	2.15	3.5	1.85
45	1.7	2.7	2.138	2.53	2.53	5.14	5.14	5.14	5.14	3.2	2.15	4	1.85
46	1.7	2	1.99	2.39	2.39	5.39	5.39	5.39	5.39	2.92	2.15	3.7	1.93
47	1	2.5	1.84	2.34	2.35	5.1	5.1	5.1	5.1	2.84	2.3	4	1.7
48	0.9	2	1.84	2.31	2.32	5	5	5	5	2.82	2.35	4	1.61
49	1	2.25	1.29	1.4	1.39	3.5	3.5	3	2.4	1.89	1.5	2.6	1.1
50	0.9	3	1.25	1.26	1.22	2.91	2.91	2.8	2.4	1.8	1.25	2.35	1.11
51	0.9	1.5	1.23	1.17	1.21	2.85	2.85	2.79	2.44	1.8	1.3	2.25	1.12
52	0.9	2	1.19	1.2	1.2	3.05	3.05	2.81	2.5	1.82	1.25	2.15	1.13
53	0.9	1.8	1.06	1.26	1.26	2.75	2.75	2.7	2.5	1.87	1.2	2	0.93
54	0.9	1.8	1.14	1.31	1.31	2.61	2.61	2.68	2.39	1.78	1.2	2.1	1.11
55	0.9	1.8	1.42	1.31	1.25	3.5	3.5	2.91	2.01	2.19	1.8	3.2	1.16
56	0.9	1.8	1.47	1.25	1.22	3.4	3.4	2.75	2.02	1.86	1.3	2.3	1.21
57	1.1	2	1.39	1.27	1.28	3.2	3.2	2.8	2.02	1.54	1.6	2.8	1
58	0.9	1	1.38	1.19	1.19	3.1	3.1	2.8	2.01	1.82	1.85	3.2	1.07
59	0.85	1.8	1.28	1.2	1.18	3.19	3.19	2.81	2.19	1.58	1.4	2.4	1.02
60	0.9	1.5	1.06	1.06	1.05	2.81	2.81	2.68	2.05	1.74	1.25	2.15	1.04
61	1.9	3	1.97	2.7	2.72	4.4	4.4	3.61	2.65	2.8	1.6	2.35	1.85
62	1.7	3	1.78	1.17	1.19	2.76	2.76	2.84	2.31	2.68	1.3	2.3	1.63
63	1.4	2	1.69	1.91	1.91	3.91	3.91	3.6	2.72	2.49	1.5	2.6	1.71
64	1.5	2.5	1.82	2.3	2.39	4	4	3.72	2.76	2.2	1.65	2.8	1.87
65	1.4	2.2	1.52	1.79	1.76	3.5	3.5	3.5	2.71	1.89	1.45	2.5	1.71
66	1.4	3	1.57	1.66	1.69	3.28	3.28	3.3	2.75	2.68	1.3	2.3	1.75
67	1.5	1.2	1.65	1.77	1.8	4	4	4.01	3.2	2.91	1.55	2.65	1.68
68	1.7	1.6	1.35	1.34	1.4	4.95	4.95	4.91	3.2	2.82	1.5	2.5	1.89
69	1.4	2	1.6	1.54	1.57	2.75	2.75	3.01	2.7	2.3	1.25	2.25	1.68
70	1.2	1.6	1.38	1.58	1.6	3.41	3.41	3.59	3.12	2.68	1.3	2.15	1.61
71	1.3	2	1.37	1.74	1.69	3.2	3.2	3.42	3	2.52	1.45	2.5	1.4
72	1.4	1.4	1.3	1.84	1.81	3.19	3.19	3.51	3.29	2.69	1.2	2.1	1.5
73	1.1	1.4	1.6	1.6	1.61	3.59	3.59	3.77	2.9	2.61	1.6	2.4	1.7
74	1	1.2	1.54	1.18	1.2	3	3	3.19	2.7	2.38	1.1	2	1.26
75	1	1	1.65	1.25	1.28	2.75	2.75	3	2.61	2.21	1.15	1.9	1.48
76	1	1.2	1.4	1.33	1.37	2.71	2.71	2.98	2.61	1.91	1.4	2.4	1.19
77	0.8	1	1.07	1.09	0.99	2.9	2.9	3.29	2.86	2.1	1.25	2.15	1.09
78	0.6	1.2	1.04	1.07	1.1	3.21	3.21	3.54	3.05	1.82	1.35	2.4	0.97
79	0.75	0.8	1.02	0.96	0.89	2.65	2.65	2.91	2.81	1.61	0.93	1.7	1.07
80	0.75	0.6	1.26	0.75	0.8	2.51	2.51	2.81	2.7	1.5	1.1	1.8	0.87
81	0.75	0.7	0.95	0.83	0.81	2.48	2.48	2.75	2.7	1.78	0.85	1.6	0.74
82	0.55	0.4	0.83	0.91	0.91	2.79	2.79	3.1	3	2.04	1.15	1.9	0.88
83	0.6	0.6	1.03	0.79	0.7	2.2	2.2	2.58	2.59	1.41	0.94	1.65	0.89
84	0.75	0.5	0.614	0.67	0.69	1.68	1.68	1.99	2.2	1.31	0.6	1	0.77
85	0.6	0.7	0.862	0.44	0.42	1.4	1.4	1.69	1.85	1.45	0.78	1.4	0.81
86	1	0.5	0.742	0.58	0.5	1.25	1.25	1.5	1.75	1.33	0.54	0.95	0.73
87	0.6	0.3	0.852	0.64	0.6	1.12	1.12	1.35	1.56	1.48	0.5	0.84	0.87
88	0.75	0.4	0.726	0.69	0.69	1.19	1.19	1.41	1.65	1.15	0.7	1.3	0.66
89	0.8	0.2	0.667	0.41	0.41	1.02	1.02	1.25	1.41	1.3	0.5	0.83	0.58
90	0.75	0.5	0.77	0.67	0.69	0.89	0.89	1.09	1.19	1.41	0.3	0.58	0.57
91	0.6	0.25	0.584	0.55	0.49	0.81	0.81	1.04	1.2	1.29	0.5	0.82	0.56

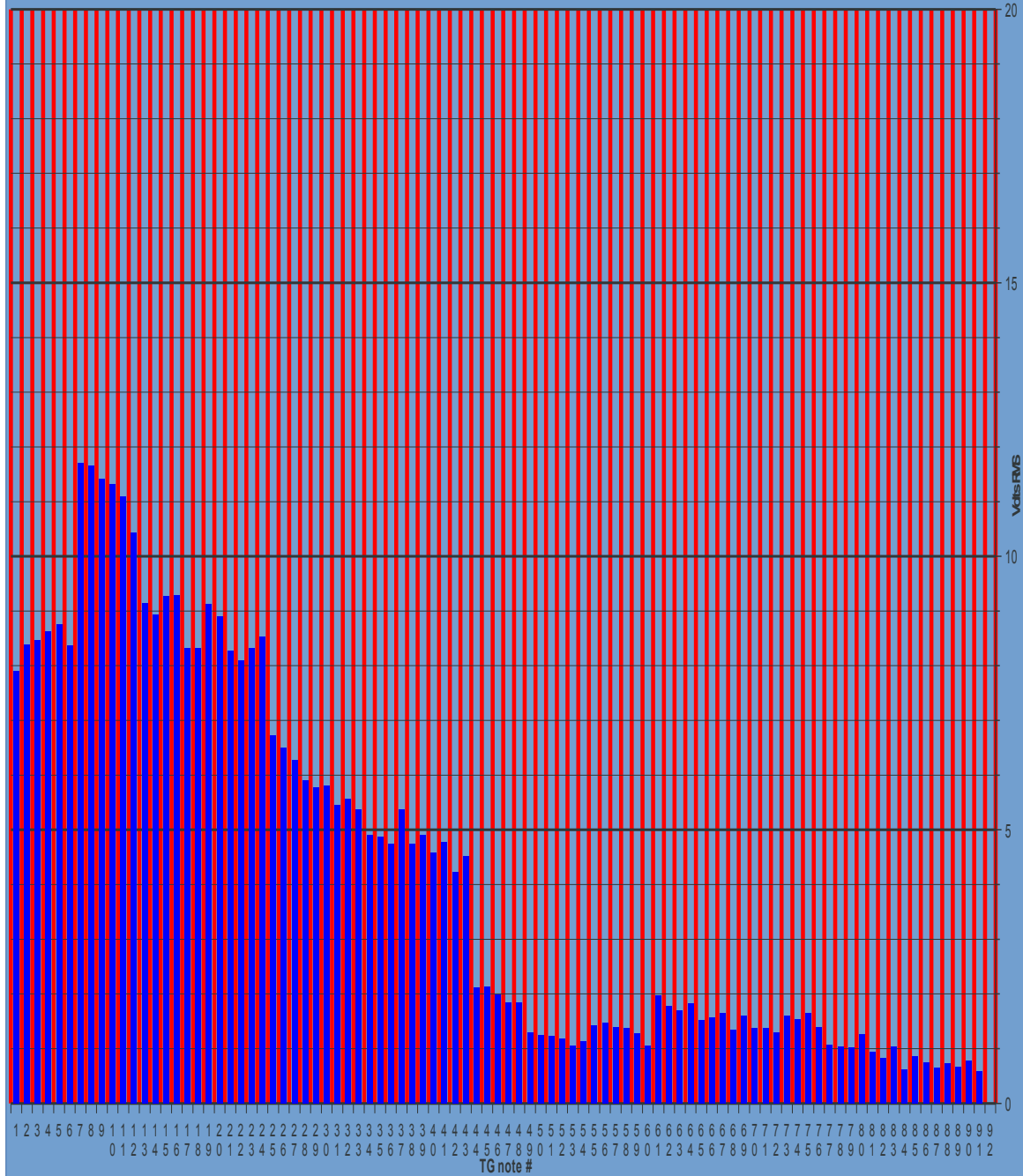
Hammond Model G (same as DV) Service Manual. 82 note TG. TG notes connected to the busbar # 4 (fifth from the bottom) . Chart instructs to use a 4 K ohms per volt scale voltage meter.



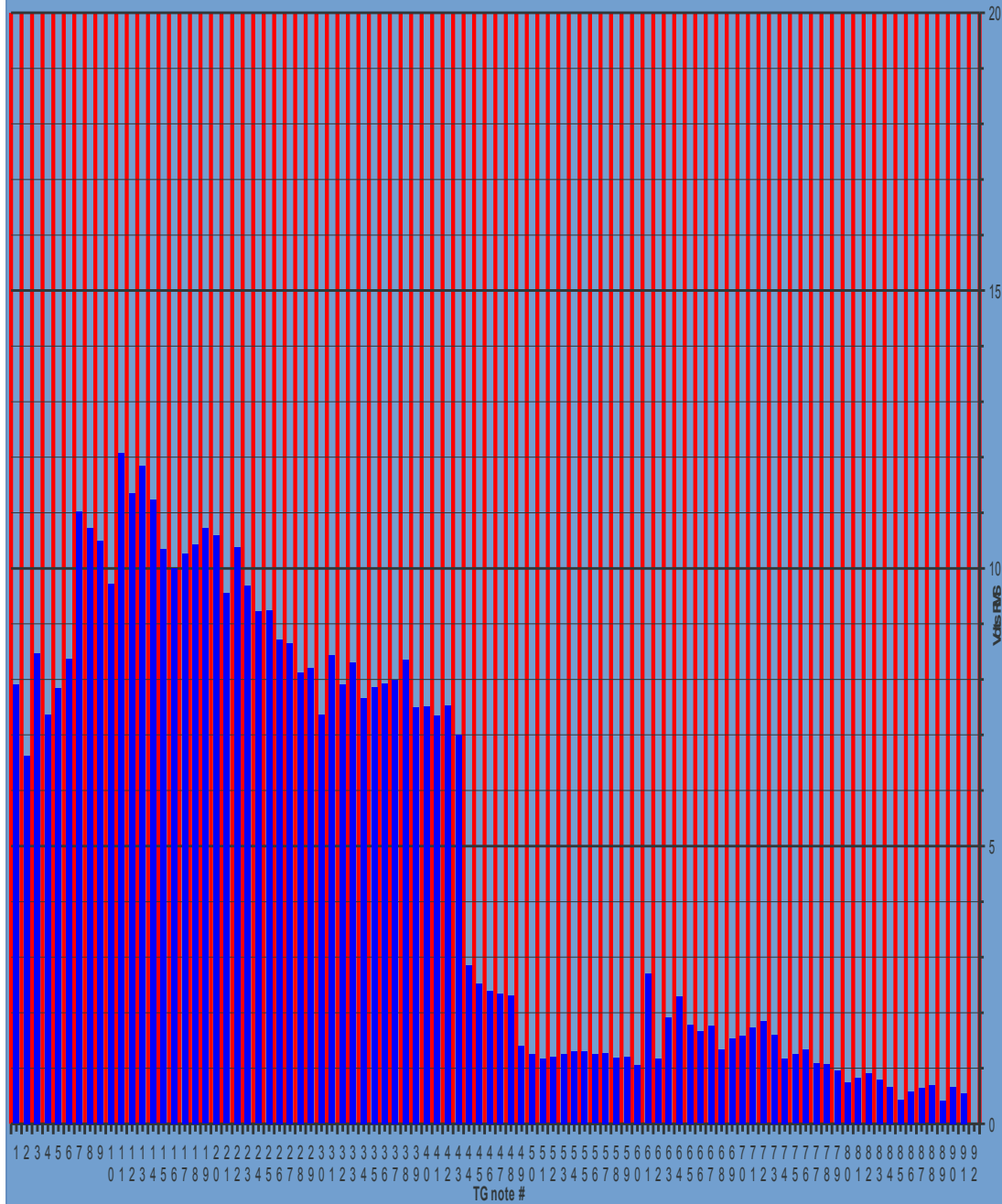
Hammond B3 / C3 Service manual "TABLE V GENERATOR OUTPUT VOLTAGES" chart. Instructions say to connect TG notes to the busbar # 4 (fifth from bottom). However with the displayed voltages the busbar # 5 (sixth from the bottom) seems more correct .



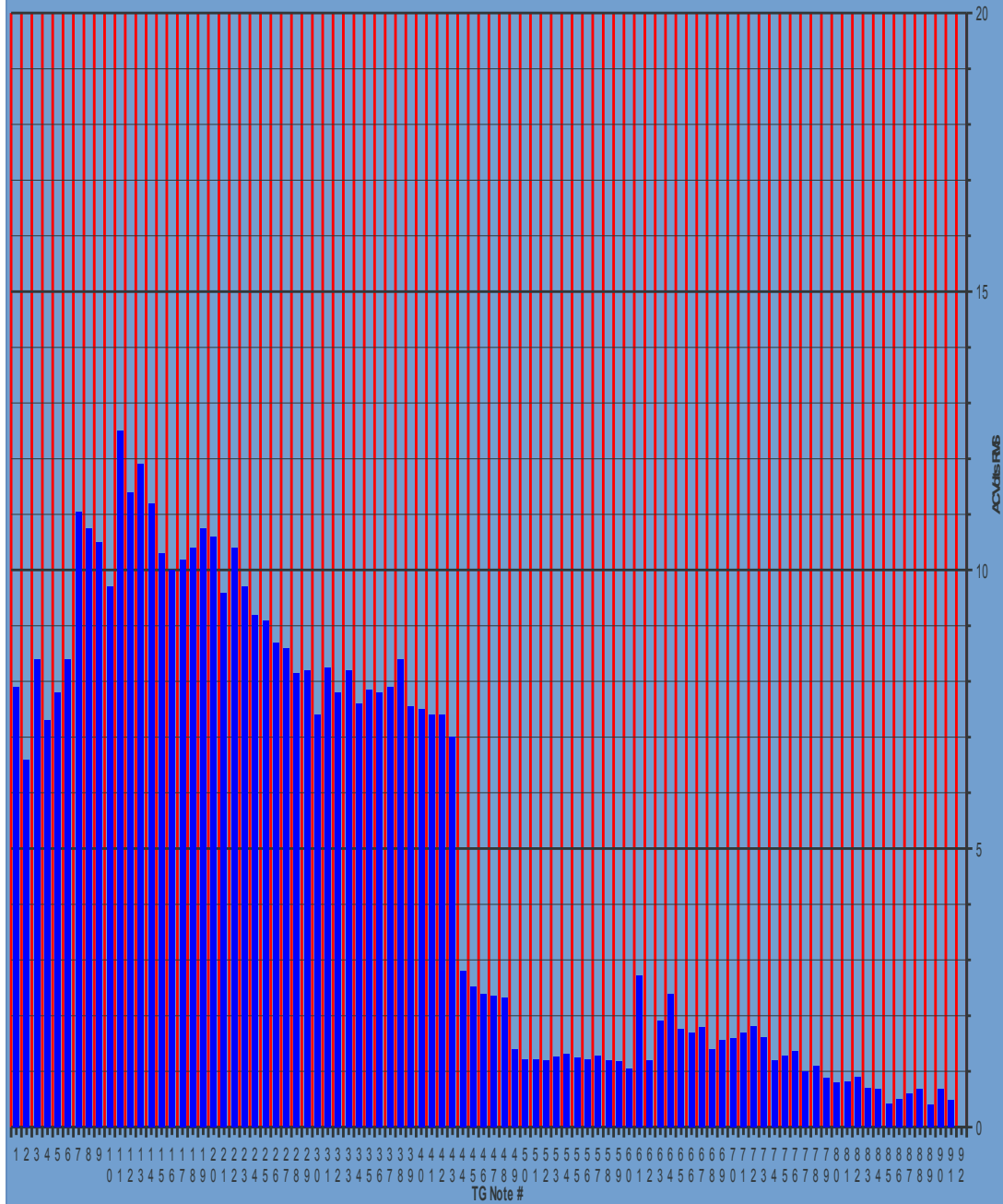
Chris's recapped mid 50's B2 with AO28 preamp. TG notes connected to the fifth (sixth from the bottom) busbar. Tone Control set to full brightness position, bass adjusted to match first TG note with Ray's 1959 C3.



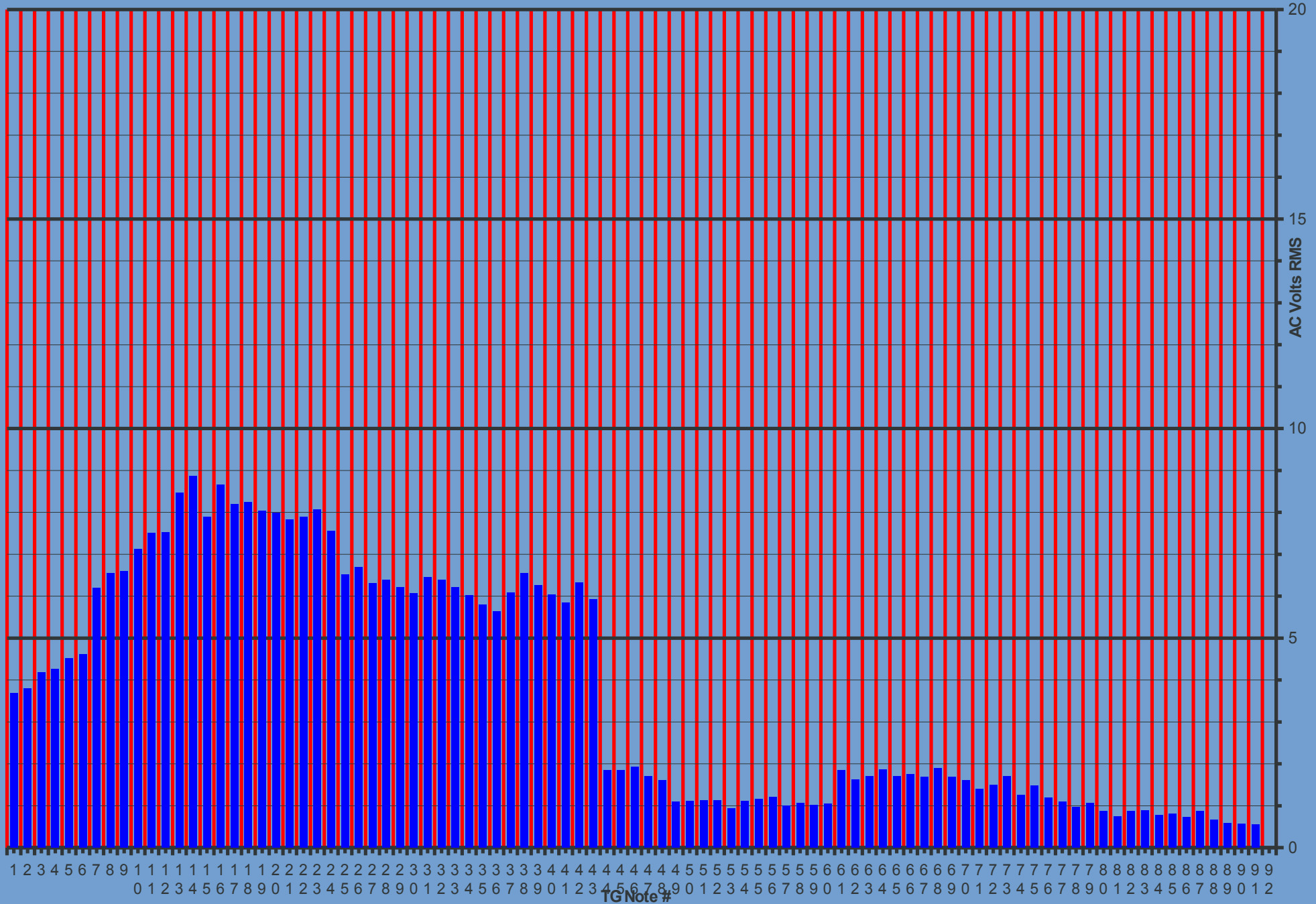
Chris's recapped & recalibrated mid 50's B2 with AO28 preamp. TG notes connected to the fifth (sixth from the bottom) busbar. Tone Control set to full brightness position, bass adjusted to match first TG note with Ray's 1959 C3.



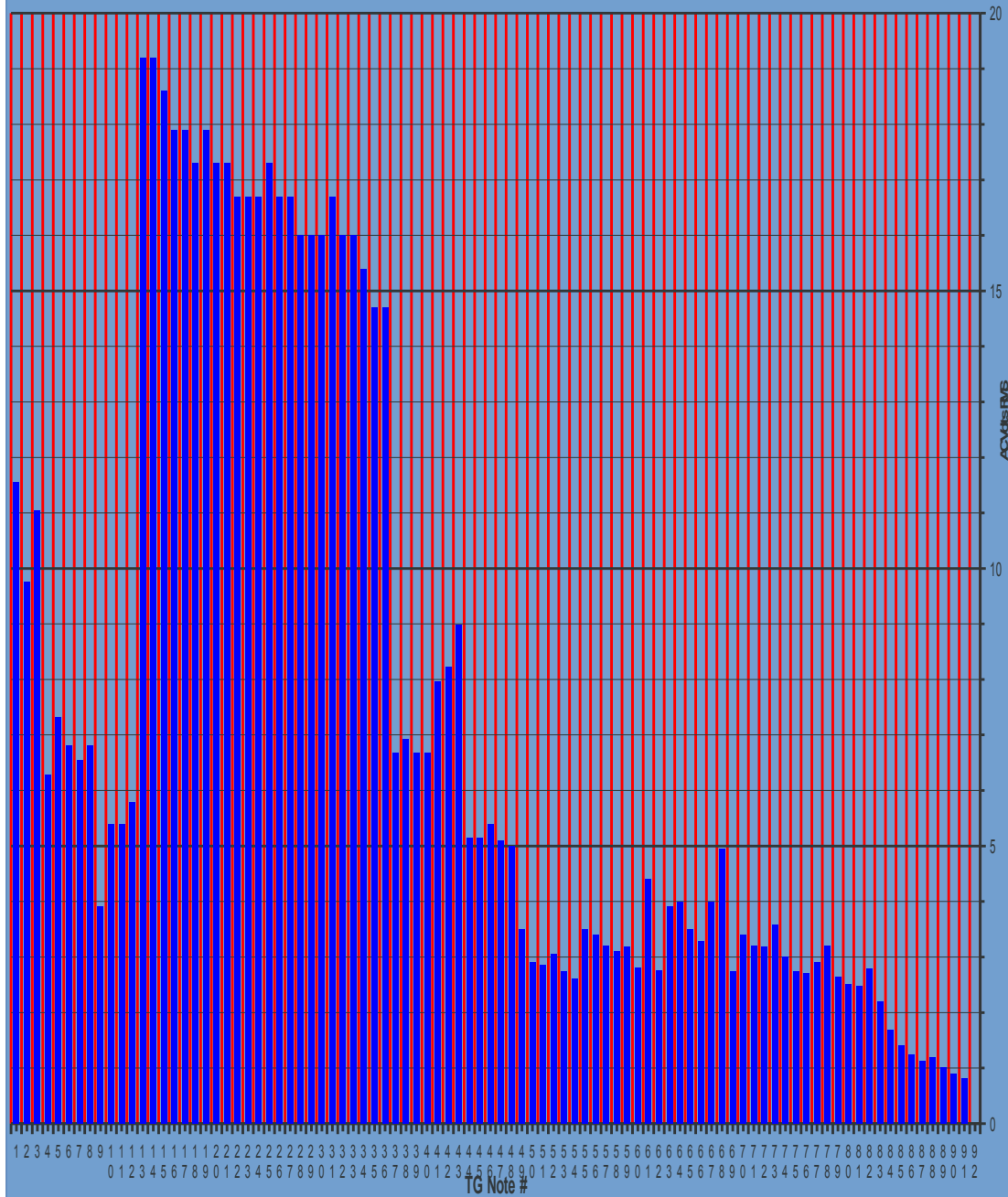
Ray's 1959 C3 S/n 80775 . TG notes 49-54 recapped with .22 mf capacitors. TG notes 55-91 recapped with .1 mf capacitors. TG notes connected to the fifth (sixth from the bottom) busbar . Tone Control set to full brightness position.



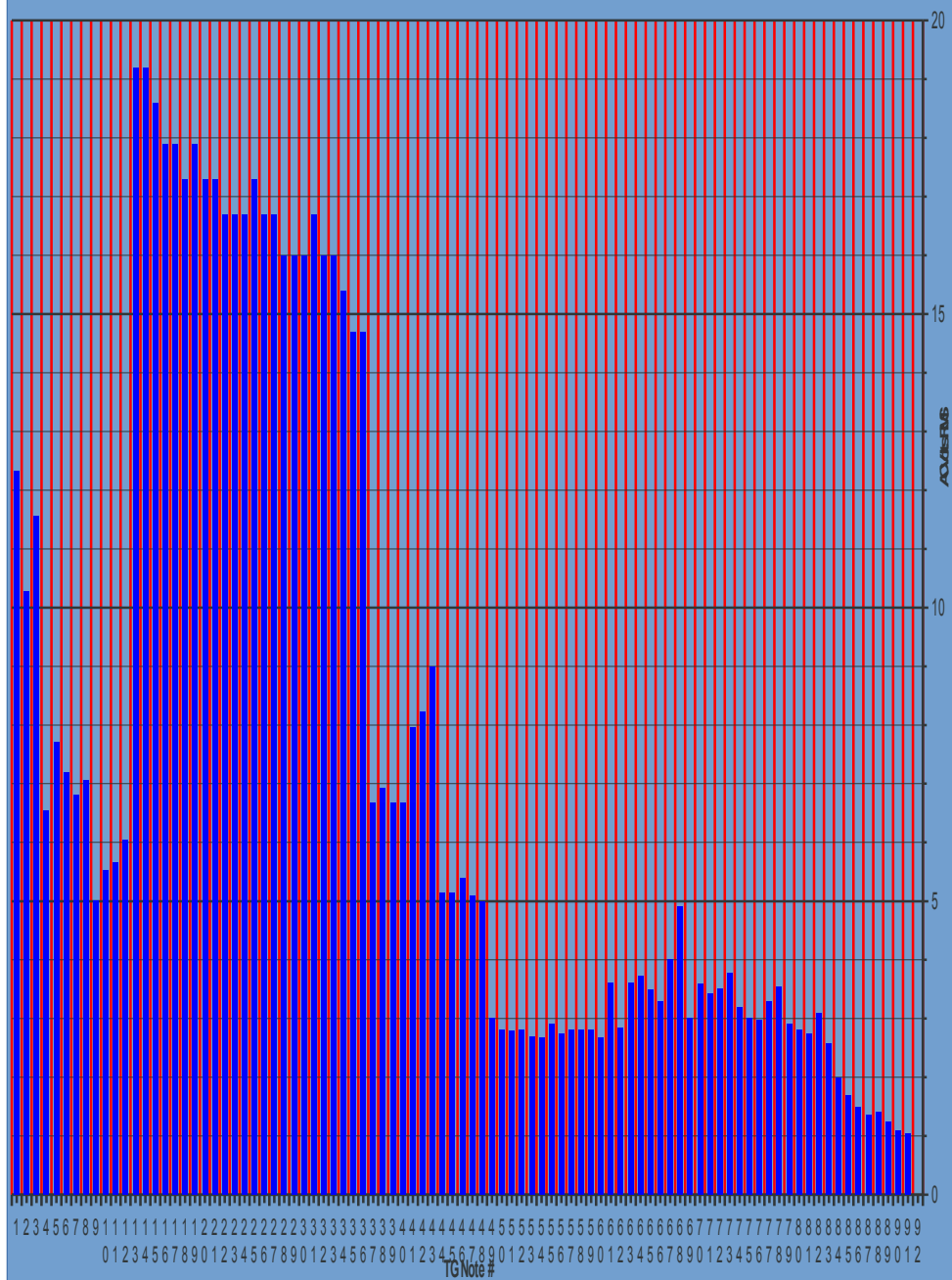
Geoffrey Dairiki's 1961 C3 with stock aged wax capacitors . TG notes connected to busbar # 4 (fifth from the bottom) .



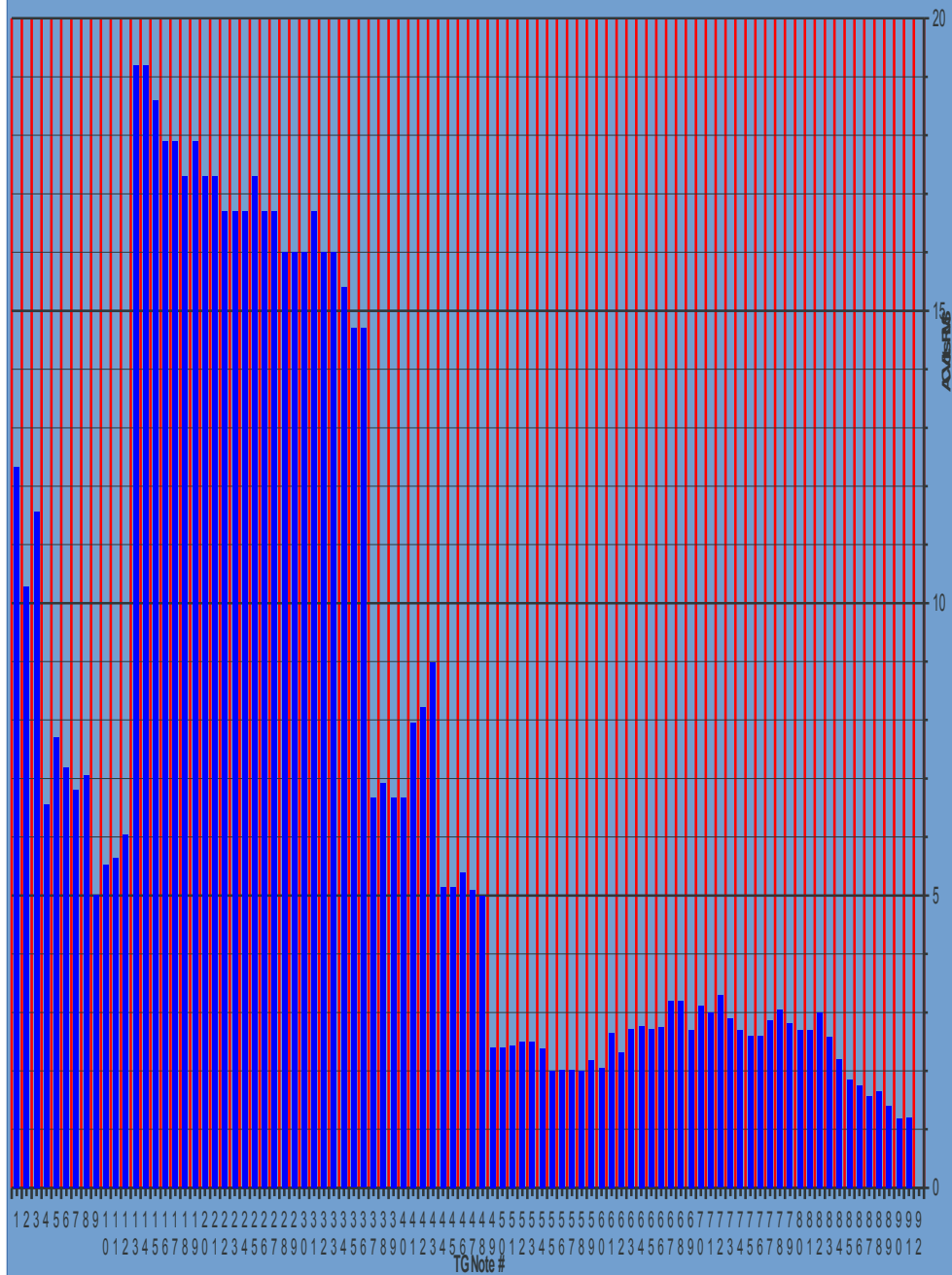
Kon's 1962 C3. April 2007 TG curve. Stock complex waveform TG notes 1 - 12 with the 16 ohms grounding resistances. Red mylar capacitors at the correct mfd specs. TG notes connected to busbar # 5 (sixth from the bottom).



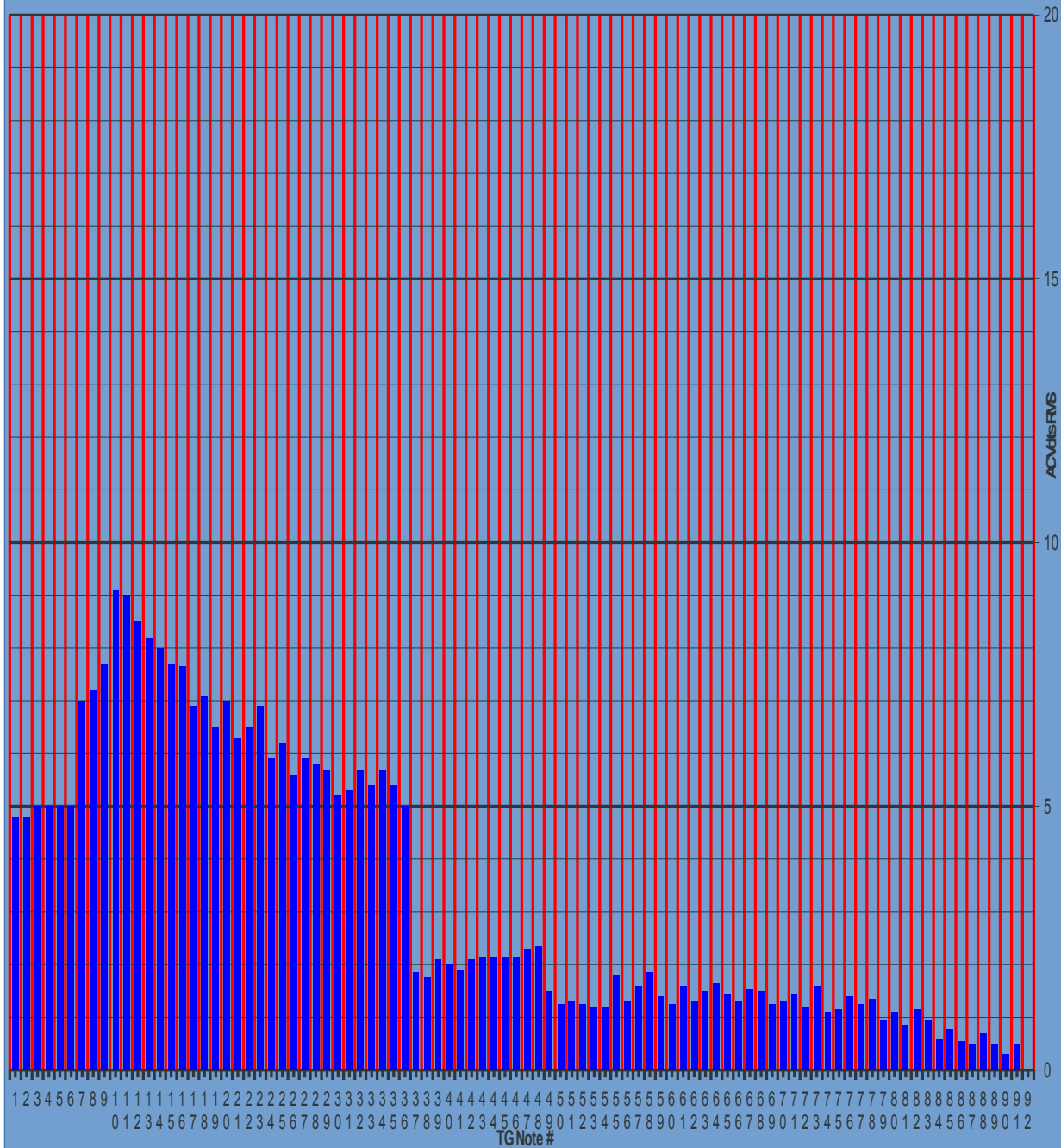
Kon's 1962 C3. April 2007 TG curve. TG capacitor mfd values raised 20 % above the correct specs for a moderately aged wax caps sound.TG notes connected to busbar #5 (sixth from the bottom). Gain trimmer cap at 1 1/2 turns.Tone control at full brightness .



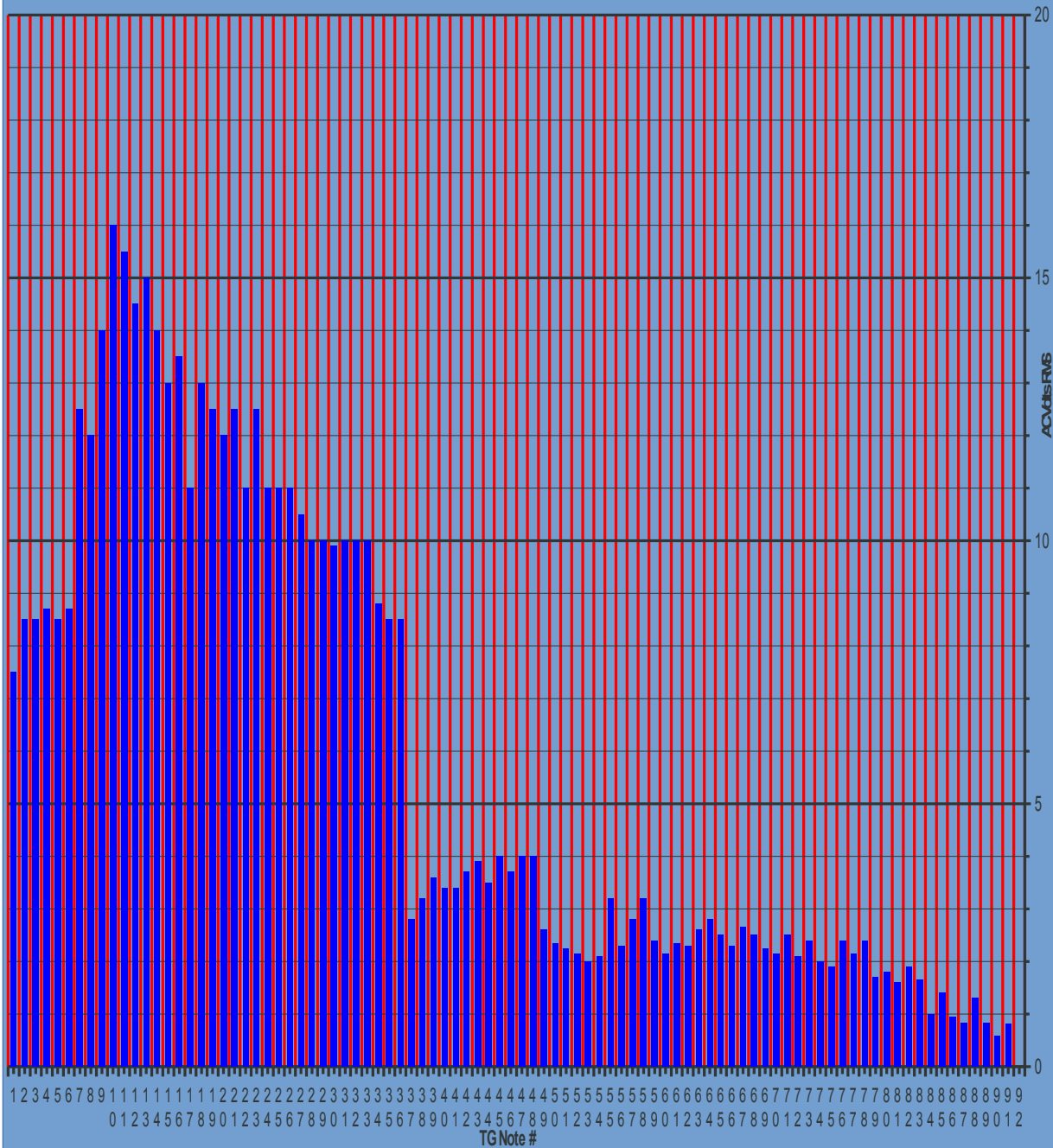
Kon's 1962 C3. April 2007 TG curve. TG capacitor values raised 50% above the correct mfd specs for a 50 years aged wax caps sound. TG notes connected to busbar # 5 (sixth from the bottom). Gain trimmer cap at 1 1/2 turns. Tone control at full brightness



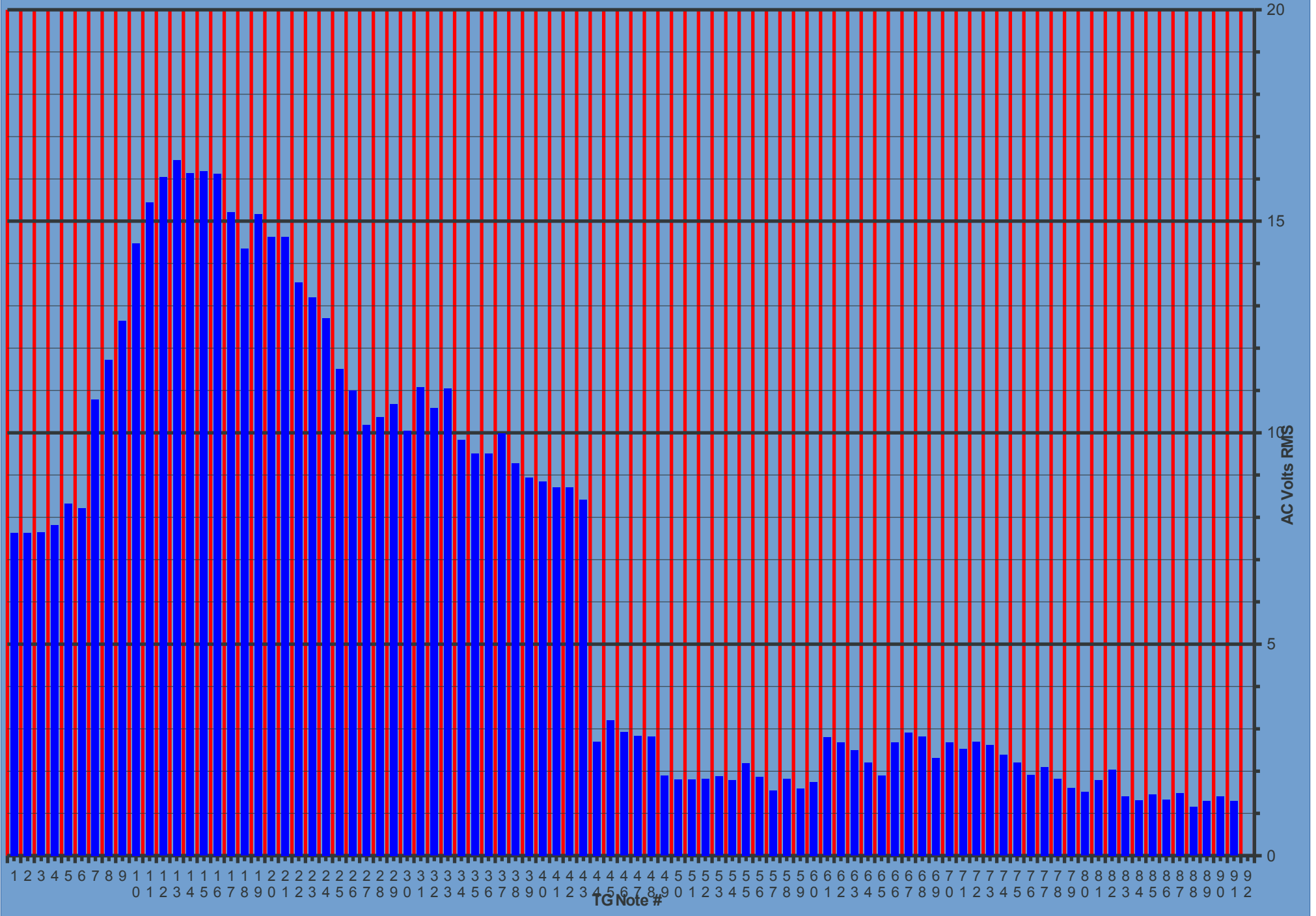
Bernard's 1973 C3 with red mylar capacitors. TG notes 37 - 48 have the capacitor / resistor hum filters. TG notes connected to busbar # 4 (fifth from the bottom).



Bernard's 1973 C3 with red mylar capacitors. TG notes 37 - 48 have the capacitor / resistor hum filters. TG notes connected to busbar # 5 (sixth from the bottom).



Church 1960 RT3 with stock aged wax capacitors. TG notes connected to busbar # 5 (sixth from the bottom).



Measured Nano Farad (nf) values of old wax capacitors, red Mylar capacitors and new capacitors of the TC

TG Note	Dave's 1948 CV. Peak filter nf values.	Mark's 1956 C3. Wax caps.	Mark's 1956 C3. New Sprague Orange Drop capacitors.	St Albans Church 1959 C3 "C-D" brand or "Fast " brand Wax caps	Kon's 1962 C3 ' CDE ' Wax caps	Kon's 1962 C3 New MKT Polyester caps	Church 1960 RT3 'Mica Mold ' Wax caps	Church 1960 RT3. Peak filter nf values.	Dave's 1962 RT3 S/n 7525 "C-D" brand and "FAST" brand Wax caps	Dave's 1962 RT3 S/n 7525. New MKT polyester caps.
49		364 nf C-D	0.253	372 nf C-D	318 nf	255 nf	392 nf	239 nf	370 nf C-D	253 nf
50		363 nf C-D	0.251	331 nf C-D	307 nf	255 nf	368 nf	248 nf	396 nf C-D	253 nf
51		324 nf C-D	0.252	351 nf C-D	299 nf	254 nf	375 nf	248 nf	371 nf C-D	253 nf
52		405 nf C-D	0.253	324 nf C-D	281 nf	253 nf	398 nf	248 nf	375 nf C-D	253 nf
53		352 nf EUC	0.251	336 nf C-D	278 nf	253 nf	364 nf	248 nf	413 nd C-D	253 nf
54		362 nf C-D	0.252	315 nf C-D	274 nf	253 nf	383 nf	248 nf	308 nf C-D	253 nf
55	92	188 nf C-D	100 nf	147nf FAST	159.6 nf	107.1 nf	137.9 nf	104.5 nf	248 nf C-D	100 nf
56	97	181 nf C-D	100 nf	160 nf FAST	153.2 nf	107 nf	158.6 nf	99.8 nf	273 nf C-D	100 nf
57	95	174 nf EUC	100 nf	150 nf FAST	146.7 nf	106.9 nf	168.2 nf	110 nf	286 nf C-D	100 nf
58	95	131 nf FAST	100 nf	146 nf FAST	146.5 nf	111.6 nf	156.5 nf	99.8 nf	151 nf FAST	100 nf
59	98	142 nf FAST	100 nf	126 nf FAST	144.4 nf	106.8 nf	133.1 nf	95.8 nf	138 nf FAST	100 nf
60	99	142 nf FAST	100 nf	150 nf FAST	167.7 nf	111.15 nf	163.9 nf	110 nf	165 nf FAST	100 nf
61	93	184 nf EUC	100 nf	149 nf FAST	146.1 nf	106.8 nf	171.1 nf	99.8 nf	261 nf C-D	100 nf
62	97	192 nf EUC	100 nf	149 nf FAST	125.6 nf	106.8 nf	159.3 nf	104.5 nf	282 nf C-D	100 nf
63	96	133 nf EUC	100 nf	152 nf FAST	150.5 nf	106.8 nf	165.5 nf	99.8 nf	245 nf C-D	100 nf
64	97	171 nf EUC	100 nf	157 nf FAST	143.7 nf	111.4 nf	146 nf	105.4 nf	280 nf C-D	100 nf
65	99	177 nf EUC	100 nf	152 nf FAST	175.4 nf	114.9 nf	138.4 nf	105.4 nf	270 nf C-D	100 nf
66	98	142 nf FAST	100 nf	149 nf FAST	171 nf	111.4 nf	171 nf	102 nf	142 nf FAST	100 nf
67	96	183 nf EUC	100 nf	157 nf FAST	177.7 nf	111.3 nf	173.2 nf	104.5 nf	281 nf C-D	100 nf
68	100	141 nf FAST	100 nf	158 nf FAST	176.2 nf	106.6 nf	166.8 nf	104.5 nf	146 nf FAST	100 nf
69	98	146 nf EUC	100 nf	144 nf FAST	126.2 nf	106.5 nf	136.4 nf	99.8 nf	255 nf C-D	100 nf
70	100	137 nf FAST	100 nf	152 nf FAST	159.7 nf	114.7 nf	150.3 nf	95.6 nf	278 nf C-D	100 nf
71	98	142 nf FAST	100 nf	142.2 nf	142.2 nf	111.2 nf	164.2 nf	95.6 nf	267 nf C-D	100 nf
72	100	168 nf EUC	100 nf	146 nf FAST	158.5 nf	106.4 nf	170.8 nf	99.8 nf	187 nf FAST	100 nf
73	101	163 nf C-D	100 nf	150 nf FAST	163.2 nf	106.4 nf	158.7 nf	99.8 nf	247 nf C-D	100 nf
74	101	166 nf C-D	100 nf	145 nf FAST	151.3 nf	106.4 nf	166.2 nf	99.8 nf	140 nf FAST	100 nf
75	101	166 nf C-D	100 nf	137 nf FAST	150 nf	111.1 nf	166 nf	104.5 nf	153 nf FAST	100 nf
76	104	224 nf EUC	100 nf	149 nf FAST	150.5 nf	109.7 nf	164.2 nf	104.5 nf	150 nf FAST	100 nf
77	106	141 nf FAST	100 nf	146 nf FAST	161.2 nf	114.5 nf	158.1 nf	97.8 nf	195 nf FAST	100 nf
78	100	139 nf EUC	100 nf	138 nf FAST	165.9 nf	106.3 nf	163.2 nf	103.8 nf	248 nf C-D	100 nf
79	100	135 nf FAST	100 nf	158 nf FAST	139.9 nf	106.3 nf	134.1 nf	99.8 nf	282 nf C-D	100 nf
80	103	182 nf EUC	100 nf	159 nf FAST	159.1 nf	110.8 nf	163.3 nf	105.4 nf	221 nf C-D	100 nf
81	101	191 nf EUC	100 nf	151 nf FAST	166.1 nf	110.8 nf	171.6 nf	104.5 nf	134 nf FAST	100 nf
82	103	223 nf EUC	100 nf	147 nf FAST	156.5 nf	114.1 nf	168.9 nf	99.8 nf	155 nf FAST	100 nf
83	102	171 nf EUC	100 nf	156 nf FAST	172.3 nf	114.1 nf	163.3 nf	102 nf	132 nf FAST	100 nf
84	101	180 nf EUC	100 nf	155 nf FAST	105.5 nf	114.2 nf	156.7 nf	110 nf	138 nf FAST	100 nf
85	107	170 nf FAST	100 nf	146 nf FAST	168.6 nf	109.8 nf	164.4 nf	104.5 nf	140 nf FAST	100 nf
86	105	187 nf EUC	100 nf	156 nf FAST	162.9 nf	109.8 nf	169.4 nf	105.4 nf	284 nf C-D	100 nf
87	100	186 nf EUC	100 nf	127 nf FAST	159.6 nf	104.9 nf	167.1 nf	99.8 nf	154 nf FAST	100 nf
88	103	127 nf FAST	100 nf	156 nf FAST	148.8 nf	112.8 nf	163.7 nf	99.8 nf	184 nf FAST	100 nf
89	110	134 nf EUC	100 nf	143 nf FAST	165.5 nf	112.7 nf	167.5 nf	99.8 nf	285 nf C-D	100 nf
90	102	183 nf EUC	100 nf	153 nf FAST	167.8 nf	112.6 nf	160.9 nf	99.8 nf	224 nf C-D	100 nf
91	102	149 nf EUC	100 nf	157 nf FAST	155.8 nf	108 nf	168.2 nf	99.8 nf	292 nf C-D	100 nf

3 notes 49 to 91.

David V's 1956 B3 Wax caps	Mihevic 1956 B3 Wax caps	Mihevic 1956 B3 Goff Cap Kit	Kon's 1963 L-102 "Gen. Instr." brand Wax caps	Kon's 1963 L-102 New MKT polyester caps	Stefan V's 1962 M-111 Wax caps	Steve's 1970 T-300 Red mylar caps.
439 nf	580 nf	224 nf	275 nf	253 nf		241 nf
379 nf	412 nf	225 nf	301 nf	253 nf		241 nf
446 nf	400 nf	225 nf	283 nf	253 nf		245 nf
405 nf	485 nf	226 nf	285 nf	253 nf		248 nf
363 nf	590 nf	227 nf	277 nf	253 nf		244 nf
373 nf	360 nf	228 nf	339 nf	259.8 nf		241 nf
240 nf	203 nf	99 nf	167 nf	100 nf	250 nf	99 nf
215 nf	330 nf	99 nf	144 nf	100 nf	250 nf	103 nf
188 nf	183 nf	99 nf	153 nf	100 nf	250 nf	102 nf
192 nf	340 nf	99 nf	150 nf	100 nf	320 nf	100 nf
289 nf	320 nf	100 nf	139 nf	106.8 nf	370 nf	102 nf
276 nf	350 nf	100 nf	140 nf	100 nf	290 nf	101 nf
175 nf	280 nf	100 nf	158 nf	106.8 nf	290 nf	103 nf
398 nf	330 nf	100 nf	137 nf	100 nf	260 nf	98 nf
267 nf	188 nf	100 nf	137 nf	106.8 nf	290 nf	102 nf
333 nf	410 nf	100 nf	145 nf	106.8 nf	220 nf	104 nf
342 nf	365 nf	100 nf	153 nf	100 nf	320 nf	99 nf
326 nf	260 nf	101 nf	138 nf	100 nf	400 nf	102 nf
295 nf	350 nf	101 nf	132 nf	100 nf	260 nf	101 nf
385 nf	290 nf	101 nf	160 nf	100 nf	370 nf	104 nf
323 nf	238 nf	101 nf	136 nf	100 nf	280 nf	98 nf
232 nf	320 nf	101 nf	138 nf	100 nf	270 nf	101 nf
400 nf	400 nf	101 nf	125 nf	100 nf	280 nf	101 nf
335 nf	320 nf	102 nf	135 nf	100 nf	260 nf	101 nf
168 nf	340 nf	102 nf	141 nf	100 nf	260 nf	103 nf
224 nf	215 nf	102 nf	149 nf	100 nf	250 nf	100 nf
190 nf	360 nf	102 nf	140 nf	100 nf	270 nf	103 nf
176 nf	270 nf	102 nf	138 nf	100 nf	250 nf	100 nf
371 nf	223 nf	102 nf	134 nf	100 nf	360 nf	99 nf
270 nf	330 nf	102 nf	150 nf	106.8 nf	320 nf	103 nf
274 nf	215 nf	102 nf	150 nf	100 nf	250 nf	103 nf
252nf	315 nf	102 nf	137 nf	100 nf	250 nf	99 nf
326 nf	300 nf	103 nf	145 nf	106.8 nf	280 nf	103 nf
241 nf	211 nf	103 nf	127 nf	100 nf	280 nf	103 nf
197 nf	410 nf	103 nf	146 nf	106.8 nf	340 nf	99 nf
324 nf	330 nf	103 nf	142 nf	100 nf	370 nf	99 nf
159 nf	165 nf	103 nf	139 nf	100 nf	350 nf	103 nf
223 nf	322 nf	103 nf	142 nf	100 nf	310 nf	99 nf
296 nf	410 nf	103 nf	143 nf	106.8 nf	400 nf	100 nf
349 nf	184 nf	103 nf	163 nf	106.8 nf	230 nf	101 nf
253 nf	540 nf	103 nf	139 nf	100 nf	260 nf	103 nf
340 nf	380 nf	104 nf	148 nf	106.8 nf	400 nf	103 nf
273 nf	250 nf	105 nf	139 nf	100 nf	320 nf	98 nf

Keycircuit manual tapering resistance wire ohms values of one manual of Ilya's 1946 CV organ.

Keyboard note	16'	Ohms	5 1/3'	Ohms	8'	Ohms	4'	Ohms	2 2/3'	Ohms	2'	Ohms	1 3/5'	Ohms	1 2/3'	Ohms	1'	Ohms	Keyboard Note
C	13	100	20	34	13	50	25	34	32	10	37	10	41	15	44	24	49	24	1
C#	14	100	21	34	14	50	26	34	33	10	38	10	42	15	45	24	50	24	2
D	15	100	22	34	15	50	27	34	34	10	39	10	43	15	46	24	51	24	3
D#	16	100	23	34	16	50	28	34	35	10	40	10	44	15	47	24	52	24	4
E	17	100	24	34	17	50	29	34	36	10	41	10	45	15	48	24	53	24	5
F	18	100	25	34	18	50	30	34	37	10	42	10	46	15	49	24	54	24	6
F#	19	100	26	34	19	50	31	34	38	10	43	10	47	15	50	24	55	24	7
G	20	120	27	34	20	50	32	34	39	10	44	10	48	15	51	24	56	24	8
G#	21	140	28	34	21	50	33	34	40	10	45	10	49	15	52	24	57	24	9
A	10	50	29	34	22	50	34	34	41	10	46	10	50	15	53	24	58	24	10
A#	11	50	30	34	23	50	35	34	42	10	47	10	51	15	54	24	59	24	11
B	12	50	31	34	24	50	36	34	43	10	48	15	52	15	55	24	60	24	12
C	13	50	32	34	25	50	37	34	44	15	49	15	53	15	56	24	61	24	13
C#	14	50	33	34	26	50	38	24	45	15	50	15	54	15	57	24	62	24	14
D	15	50	34	24	27	50	39	24	46	15	51	15	55	15	58	24	63	24	15
D#	16	50	35	24	28	34	40	24	47	15	52	15	56	15	59	24	64	24	16
E	17	34	36	24	29	34	41	24	48	15	53	15	57	15	60	24	65	24	17
F	18	34	37	24	30	34	42	24	49	15	54	15	58	15	61	24	66	24	18
F#	19	34	38	24	31	34	43	24	50	15	55	15	59	24	62	24	67	24	19
G	20	34	39	24	32	34	44	24	51	15	56	15	60	24	63	24	68	24	20
G#	21	34	40	24	33	34	45	24	52	24	57	24	61	24	64	24	69	24	21
A	22	34	41	24	34	34	46	24	53	24	58	24	62	24	65	24	70	24	22
A#	23	34	42	24	35	34	47	24	54	24	59	24	63	24	66	24	71	24	23
B	24	34	43	24	36	24	48	24	55	24	60	24	64	24	67	24	72	24	24
C	25	24	44	24	37	24	49	24	56	24	61	24	65	24	68	24	73	24	25
C#	26	24	45	24	38	24	50	24	57	24	62	24	66	24	69	24	74	24	26
D	27	24	46	24	39	24	51	24	58	24	63	24	67	24	70	24	75	24	27
D#	28	24	47	24	40	24	52	24	59	24	64	24	68	24	71	24	76	24	28
E	29	24	48	24	41	24	53	24	60	24	65	24	69	24	72	24	77	24	29
F	30	24	49	24	42	24	54	24	61	24	66	24	70	24	73	24	78	24	30
F#	31	24	50	24	43	24	55	24	62	24	67	24	71	24	74	24	79	24	31
G	32	24	51	24	44	24	56	24	63	24	68	24	72	24	75	24	80	24	32
G#	33	24	52	24	45	24	57	24	64	24	69	24	73	24	76	24	81	24	33
A	34	24	53	24	46	24	58	24	65	24	70	24	74	24	77	24	82	24	34
A#	35	24	54	24	47	24	59	24	66	24	71	24	75	24	78	24	83	24	35
B	36	24	55	24	48	24	60	24	67	24	72	24	76	24	79	24	84	24	36
C	37	15	56	24	49	24	61	24	68	24	73	24	77	24	80	24	85	24	37
C#	38	15	57	24	50	24	62	24	69	24	74	24	78	24	81	24	86	24	38
D	39	15	58	15	51	15	63	24	70	24	75	24	79	24	82	24	87	24	39
D#	40	15	59	15	52	15	64	34	71	24	76	24	80	24	83	24	88	24	40
E	41	15	60	15	53	15	65	34	72	34	77	24	81	24	84	24	89	24	41
F	42	15	61	15	54	15	66	34	73	34	78	34	82	24	85	24	90	24	42
F#	43	15	62	15	55	15	67	34	74	34	79	34	83	34	86	24	91	24	43
G	44	15	63	15	56	15	68	34	75	34	80	34	84	34	87	34	92	50	44
G#	45	15	64	15	57	15	69	34	76	34	81	34	85	34	88	34	93	50	45
A	46	15	65	15	58	15	70	34	77	34	82	34	86	34	89	34	94	50	46
A#	47	15	66	15	59	15	71	34	78	34	83	34	87	34	90	34	95	50	47
B	48	15	67	15	60	15	72	34	79	34	84	34	88	34	91	34	96	50	48
C	49	10	68	15	61	15	73	34	80	34	85	34	89	34	92	50	97	50	49
C#	50	10	69	15	62	10	74	34	81	34	86	34	90	34	93	50	98	50	50
D	51	10	70	10	63	10	75	34	82	34	87	34	91	34	94	50	99	50	51
D#	52	10	71	10	64	10	76	34	83	34	88	34	92	50	95	50	100	50	52
E	53	10	72	10	65	10	77	34	84	50	89	34	93	50	96	50	101	50	53
F	54	10	73	10	66	10	78	34	85	50	90	34	94	50	97	50	102	50	54
F#	55	10	74	10	67	10	79	34	86	50	91	34	95	50	98	50	103	50	55
G	56	10	75	10	68	10	80	34	87	50	92	50	96	50	99	50	104	50	56
G#	57	10	76	10	69	10	81	34	88	50	93	50	97	50	100	50	105	50	57
A	58	10	77	10	70	10	82	34	89	50	94	50	98	50	101	50	106	50	58
A#	59	10	78	10	71	10	83	34	90	50	95	50	99	50	102	50	107	50	59
B	60	10	79	10	72	10	84	34	91	50	96	50	100	50	103	50	108	50	60
C	61	10	80	10	73	10	85	34	92	50	97	50	101	50	104	50	109	50	61

Keycircuit manual tapering resistance wire ohms values of the lower manual of Kon's 1965 C3. S/n 95237

octave	Keyboard Note	note	16'	ohms	5 1/3'	ohms	8'	ohms	4'	ohms	2 2/3'	ohms	2'	ohms	1 3/5'	ohms	1 2/3'	ohms	1'	ohms	Keyboard Note
1	1	C	13	105	20	34	13	49	25	35	32	11	37	10	41	16	44	23	49	23	1
1	2	C#	14	108	21	34	14	50	26	35	33	11	38	11	42	17	45	24	50	23	2
1	3	D	15	104	22	34	15	54	27	36	34	11	39	11	43	16	46	23	51	23	3
1	4	D#	16	105	23	34	16	50	28	36	35	11	40	11	44	16	47	24	52	23	4
1	5	E	17	106	24	34	17	52	29	37	36	11	41	11	45	17	48	24	53	22	5
1	6	F	18	105	25	34	18	50	30	37	37	11	42	11	46	17	49	23	54	23	6
1	7	F#	19	107	26	34	19	50	31	36	38	11	43	11	47	17	50	23	55	23	7
1	8	G	20	104	27	34	20	50	32	37	39	11	44	10	48	17	51	24	56	23	8
1	9	G#	21	105	28	34	21	53	33	37	40	11	45	11	49	16	52	23	57	23	9
1	10	A	22	105	29	34	22	54	34	37	41	11	46	11	50	16	53	24	58	23	10
1	11	A#	23	123	30	34	23	52	35	37	42	11	47	11	51	17	54	23	59	23	11
1	12	B	24	136	31	35	24	54	36	38	43	11	48	16	52	16	55	23	60	23	12
2	13	C	13	53	32	35	25	52	37	36	44	17	49	16	53	17	56	24	61	23	13
2	14	C#	14	53	33	34	26	54	38	23	45	16	50	16	54	17	57	24	62	23	14
2	15	D	15	57	34	24	27	53	39	23	46	17	51	16	55	16	58	24	63	23	15
2	16	D#	16	52	35	23	28	36	40	23	47	17	52	16	56	17	59	24	64	23	16
2	17	E	17	36	36	23	29	36	41	24	48	16	53	16	57	17	60	24	65	23	17
2	18	F	18	35	37	23	30	36	42	23	49	17	54	16	58	17	61	24	66	26	18
2	19	F#	19	35	38	23	31	36	43	23	50	16	55	16	59	24	62	24	67	23	19
2	20	G	20	36	39	23	32	36	44	24	51	17	56	23	60	23	63	24	68	23	20
2	21	G#	21	34	40	23	33	36	45	24	52	24	57	23	61	24	64	24	69	23	21
2	22	A	22	35	41	23	34	36	46	24	53	24	58	24	62	24	65	24	70	23	22
2	23	A#	23	35	42	23	35	36	47	24	54	24	59	23	63	24	66	24	71	23	23
2	24	B	24	36	43	23	36	23	48	25	55	24	60	23	64	24	67	24	72	23	24
3	25	C	25	24	44	23	37	23	49	25	56	24	61	23	65	24	68	24	73	23	25
3	26	C#	26	24	45	23	38	23	50	24	57	24	62	24	66	24	69	24	74	24	26
3	27	D	27	24	46	23	39	23	51	25	58	23	63	23	67	24	70	24	75	24	27
3	28	D#	28	24	47	23	40	23	52	24	59	24	64	24	68	24	71	24	76	23	28
3	29	E	29	24	48	23	41	23	53	24	60	23	65	23	69	24	72	24	77	23	29
3	30	F	30	25	49	24	42	23	54	24	61	24	66	23	70	24	73	24	78	23	30
3	31	F#	31	24	50	23	43	23	55	25	62	23	67	23	71	24	74	24	79	24	31
3	32	G	32	24	51	23	44	23	56	24	63	24	68	23	72	24	75	24	80	23	32
3	33	G#	33	25	52	23	45	23	57	25	64	24	69	24	73	24	76	24	81	23	33
3	34	A	34	24	53	23	46	23	58	24	65	23	70	23	74	24	77	24	82	23	34
3	35	A#	35	24	54	23	47	23	59	24	66	23	71	22	75	24	78	24	83	23	35
3	36	B	36	24	55	23	48	23	60	24	67	23	72	23	76	24	79	24	84	23	36
4	37	C	37	16	56	23	49	23	61	25	68	23	73	23	77	24	80	23	85	23	37
4	38	C#	38	16	57	23	50	16	62	24	69	24	74	23	78	24	81	24	86	24	38
4	39	D	39	16	58	16	51	16	63	24	70	23	75	23	79	24	82	24	87	23	39
4	40	D#	40	17	59	17	52	16	64	36	71	23	76	23	80	24	83	23	88	23	40
4	41	E	41	16	60	16	53	16	65	35	72	36	77	23	81	24	84	24	89	23	41
4	42	F	42	16	61	16	54	17	66	35	73	35	78	39	82	23	85	24	90	23	42
4	43	F#	43	16	62	17	55	16	67	35	74	35	79	36	83	34	86	23	91	23	43
4	44	G	44	16	63	17	56	16	68	35	75	35	80	36	84	37	87	36	90	52	44
4	45	G#	45	16	64	16	57	15	69	35	76	35	81	36	85	36	88	36	91	52	45
4	46	A	46	16	65	17	58	16	70	35	77	35	82	36	86	35	89	36	92	52	46
4	47	A#	47	16	66	17	59	15	71	36	78	35	83	39	87	36	90	36	93	51	47
4	48	B	48	16	67	16	60	16	72	35	79	36	84	36	88	35	91	36	94	51	48
5	49	C	49	11	68	17	61	15	73	35	80	36	85	36	89	34	90	51	95	52	49
5	50	C#	50	11	69	16	62	11	74	36	81	36	86	38	90	35	91	51	96	52	50
5	51	D	51	11	70	11	63	11	75	35	82	36	87	36	91	36	92	52	97	51	51
5	52	D#	52	11	71	11	64	11	76	36	83	35	88	36	90	52	93	51	98	52	52
5	53	E	53	11	72	11	65	10	77	35	84	53	89	38	91	52	94	52	99	52	53
5	54	F	54	11	73	11	66	11	78	35	85	53	90	36	92	52	95	51	100	51	54
5	55	F#	55	11	74	11	67	11	79	35	86	53	91	38	93	51	96	51	101	52	55
5	56	G	56	11	75	11	68	11	80	36	87	53	90	52	94	52	97	53	100	51	56
5	57	G#	57	11	76	11	69	11	81	35	88	53	91	54	95	53	98	52	101	51	57
5	58	A	58	11	77	11	70	11	82	35	89	53	92	53	96	52	99	51	102	52	58
5	59	A#	59	11	78	11	71	10	83	35	90	52	93	53	97	52	100	52	103	51	59
5	60	B	60	11	79	11	72	11	84	35	91	53	94	53	98	52	101	51	104	52	60
6	61	C	61	11	80	11	73	11	85	35	90	53	95	53	99	52	100	52	105	51	61

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Keycircuit manual tapering resistance wire ohms values of the upper manual of Kon's 1965 C3. S/n 95237

octave	Keyboard Note	note	16'	ohms	5 1/3'	ohms	8'	ohms	4'	ohms	2 2/3'	ohms	2'	ohms	1 3/5'	ohms	1 2/3'	ohms	1'	ohms	Keyboard Note
1	1	C	13	104	20	36	13	54	25	37	32	11	37	11	41	17	44	25	49	24	1
1	2	C#	14	103	21	35	14	53	26	37	33	11	38	11	42	16	45	24	50	24	2
1	3	D	15	107	22	36	15	55	27	36	34	11	39	11	43	16	46	24	51	24	3
1	4	D#	16	103	23	35	16	52	28	37	35	11	40	11	44	16	47	24	52	24	4
1	5	E	17	105	24	35	17	53	29	37	36	11	41	11	45	17	48	24	53	23	5
1	6	F	18	105	25	36	18	53	30	37	37	11	42	11	46	17	49	24	54	24	6
1	7	F#	19	103	26	36	19	53	31	36	38	11	43	11	47	16	50	24	55	24	7
1	8	G	20	106	27	36	20	53	32	37	39	11	44	11	48	16	51	24	56	23	8
1	9	G#	21	105	28	35	21	51	33	37	40	11	45	11	49	16	52	24	57	23	9
1	10	A	22	107	29	36	22	51	34	36	41	11	46	10	50	16	53	24	58	24	10
1	11	A#	23	124	30	36	23	52	35	37	42	11	47	11	51	16	54	24	59	24	11
1	12	B	24	145	31	35	24	51	36	37	43	11	48	16	52	16	55	25	60	23	12
2	13	C	13	53	32	36	25	51	37	37	44	16	49	16	53	16	56	25	61	24	13
2	14	C#	14	52	33	36	26	51	38	24	45	16	50	16	54	16	57	24	62	24	14
2	15	D	15	53	34	24	27	51	39	24	46	16	51	16	55	17	58	23	63	24	15
2	16	D#	16	53	35	23	28	39	40	24	47	16	52	16	56	16	59	23	64	23	16
2	17	E	17	37	36	24	29	35	41	24	48	16	53	16	57	16	60	23	65	24	17
2	18	F	18	36	37	24	30	34	42	24	49	16	54	16	58	16	61	23	66	24	18
2	19	F#	19	35	38	23	31	35	43	24	50	16	55	16	59	24	62	23	67	24	19
2	20	G	20	36	39	23	32	35	44	23	51	16	56	24	60	23	63	23	68	24	20
2	21	G#	21	36	40	23	33	35	45	23	52	24	57	23	61	24	64	23	69	24	21
2	22	A	22	36	41	23	34	35	46	23	53	24	58	24	62	23	65	23	70	24	22
2	23	A#	23	36	42	23	35	34	47	23	54	24	59	23	63	24	66	24	71	22	23
2	24	B	24	36	43	23	36	24	48	23	55	24	60	23	64	23	67	23	72	24	24
3	25	C	25	24	44	24	37	24	49	23	56	24	61	23	65	24	68	23	73	24	25
3	26	C#	26	24	45	23	38	24	50	23	57	24	62	23	66	23	69	23	74	24	26
3	27	D	27	24	46	24	39	24	51	23	58	24	63	23	67	23	70	23	75	24	27
3	28	D#	28	24	47	24	40	24	52	23	59	24	64	23	68	24	71	23	76	24	28
3	29	E	29	24	48	23	41	24	53	23	60	24	65	24	69	24	72	24	77	24	29
3	30	F	30	24	49	23	42	24	54	23	61	24	66	23	70	23	73	23	78	24	30
3	31	F#	31	24	50	23	43	24	55	23	62	24	67	23	71	23	74	22	79	24	31
3	32	G	32	24	51	24	44	24	56	23	63	24	68	23	72	23	75	23	80	24	32
3	33	G#	33	24	52	23	45	24	57	23	64	24	69	24	73	23	76	23	81	24	33
3	34	A	34	24	53	24	46	24	58	23	65	24	70	23	74	23	77	24	82	24	34
3	35	A#	35	24	54	23	47	24	59	23	66	24	71	23	75	24	78	24	83	23	35
3	36	B	36	24	55	23	48	24	60	23	67	24	72	23	76	24	79	24	84	23	36
4	37	C	37	16	56	24	49	24	61	23	68	24	73	23	77	23	80	24	85	23	37
4	38	C#	38	16	57	23	50	16	62	23	69	24	74	23	78	23	81	24	86	23	38
4	39	D	39	16	58	16	51	16	63	23	70	25	75	23	79	23	82	23	87	23	39
4	40	D#	40	16	59	16	52	16	64	36	71	24	76	23	80	24	83	24	88	23	40
4	41	E	41	16	60	17	53	16	65	36	72	35	77	23	81	23	84	24	89	23	41
4	42	F	42	16	61	16	54	16	66	36	73	35	78	37	82	24	85	24	90	23	42
4	43	F#	43	16	62	16	55	16	67	36	74	35	79	36	83	37	86	37	91	23	43
4	44	G	44	16	63	16	56	16	68	36	75	36	80	36	84	37	87	36	92	52	44
4	45	G#	45	16	64	16	57	15	69	36	76	36	81	37	85	36	88	36	93	51	45
4	46	A	46	16	65	16	58	16	70	37	77	36	82	37	86	37	89	36	94	52	46
4	47	A#	47	17	66	16	59	16	71	36	78	36	83	36	87	36	90	36	95	51	47
4	48	B	48	17	67	16	60	16	72	36	79	37	84	37	88	37	91	37	96	52	48
5	49	C	49	11	68	16	61	16	73	36	80	35	85	37	89	37	92	51	97	52	49
5	50	C#	50	11	69	16	62	11	74	36	81	35	86	37	90	36	93	51	98	55	50
5	51	D	51	11	70	11	63	11	75	36	82	35	87	37	91	36	94	51	99	52	51
5	52	D#	52	11	71	11	64	11	76	36	83	35	88	37	92	52	95	54	100	53	52
5	53	E	53	11	72	11	65	11	77	34	84	51	89	37	93	52	96	51	101	52	53
5	54	F	54	11	73	11	66	11	78	37	85	51	90	37	94	51	97	50	102	52	54
5	55	F#	55	11	74	11	67	11	79	37	86	51	91	37	95	52	98	51	103	52	55
5	56	G	56	11	75	11	68	11	80	37	87	51	92	53	96	52	99	51	104	53	56
5	57	G#	57	11	76	11	69	11	81	37	88	51	93	52	97	52	100	51	105	52	57
5	58	A	58	11	77	11	70	11	82	38	89	51	94	52	98	52	101	51	106	52	58
5	59	A#	59	11	78	11	71	11	83	37	90	52	95	52	99	56	102	53	107	52	59
5	60	B	60	11	79	11	72	11	84	36	91	51	96	52	100	57	103	50	108	52	60
6	61	C	61	11	80	11	73	11	85	37	92	51	97	52	101	56	104	51	109	52	61

Keycircuit manual tapering resistance wire ohms values of the lower manual of Peter's 1966 C3 S/n 96652.

Keyboard note	16'	Ohms	5 1/3'	Ohms	8'	Ohms	4'	Ohms	2 2/3'	Ohms	2'	Ohms	1 3/5'	Ohms	1 2/3'	Ohms	1'	Ohms	Keyboard Note
C	13	100	20	34	13	50	25	34	32	10	37	10	41	15	44	24	49	24	1
C#	14	100	21	34	14	50	26	34	33	10	38	10	42	15	45	24	50	24	2
D	15	100	22	34	15	50	27	34	34	10	39	10	43	15	46	24	51	24	3
D#	16	100	23	34	16	50	28	34	35	10	40	10	44	15	47	24	52	24	4
E	17	100	24	34	17	50	29	34	36	10	41	10	45	15	48	24	53	24	5
F	18	100	25	34	18	50	30	34	37	10	42	10	46	15	49	24	54	24	6
F#	19	100	26	34	19	50	31	34	38	10	43	10	47	15	50	24	55	24	7
G	20	100	27	34	20	50	32	34	39	10	44	10	48	15	51	24	56	24	8
G#	21	100	28	34	21	50	33	34	40	10	45	10	49	15	52	24	57	24	9
A	22	100	29	34	22	50	34	34	41	10	46	10	50	15	53	24	58	24	10
A#	23	100	30	34	23	50	35	34	42	10	47	10	51	15	54	24	59	24	11
B	24	80	31	34	24	50	36	34	43	10	48	15	52	15	55	24	60	24	12
C	13	50	32	34	25	50	37	34	44	15	49	15	53	15	56	24	61	24	13
C#	14	50	33	34	26	50	38	24	45	15	50	15	54	15	57	24	62	24	14
D	15	50	34	24	27	50	39	24	46	15	51	15	55	15	58	24	63	24	15
D#	16	50	35	24	28	34	40	24	47	15	52	15	56	15	59	24	64	24	16
E	17	34	36	24	29	34	41	24	48	15	53	15	57	15	60	24	65	24	17
F	18	34	37	24	30	34	42	24	49	15	54	15	58	15	61	24	66	24	18
F#	19	34	38	24	31	34	43	24	50	15	55	15	59	24	62	24	67	24	19
G	20	34	39	24	32	34	44	24	51	15	56	24	60	24	63	24	68	24	20
G#	21	34	40	24	33	34	45	24	52	24	57	24	61	24	64	24	69	24	21
A	22	34	41	24	34	34	46	24	53	24	58	24	62	24	65	24	70	24	22
A#	23	34	42	24	35	34	47	24	54	24	59	24	63	24	66	24	71	24	23
B	24	34	43	24	36	24	48	24	55	24	60	24	64	24	67	24	72	24	24
C	25	24	44	24	37	24	49	24	56	24	61	24	65	24	68	24	73	24	25
C#	26	24	45	24	38	24	50	24	57	24	62	24	66	24	69	24	74	24	26
D	27	24	46	24	39	24	51	24	58	24	63	24	67	24	70	24	75	24	27
D#	28	24	47	24	40	24	52	24	59	24	64	24	68	24	71	24	76	24	28
E	29	24	48	24	41	24	53	24	60	24	65	24	69	24	72	24	77	24	29
F	30	24	49	24	42	24	54	24	61	24	66	24	70	24	73	24	78	24	30
F#	31	24	50	24	43	24	55	24	62	24	67	24	71	24	74	24	79	24	31
G	32	24	51	24	44	24	56	24	63	24	68	24	72	24	75	24	80	24	32
G#	33	24	52	24	45	24	57	24	64	24	69	24	73	24	76	24	81	24	33
A	34	24	53	24	46	24	58	24	65	24	70	24	74	24	77	24	82	24	34
A#	35	24	54	24	47	24	59	24	66	24	71	24	75	24	78	24	83	24	35
B	36	24	55	24	48	24	60	24	67	24	72	24	76	24	79	24	84	24	36
C	37	15	56	24	49	24	61	24	68	24	73	24	77	24	80	24	85	24	37
C#	38	15	57	24	50	15	62	24	69	24	74	24	78	24	81	24	86	24	38
D	39	15	58	15	51	15	63	24	70	24	75	24	79	24	82	24	87	24	39
D#	40	15	59	15	52	15	64	34	71	24	76	24	80	24	83	24	88	24	40
E	41	15	60	15	53	15	65	34	72	34	77	24	81	24	84	24	89	24	41
F	42	15	61	15	54	15	66	34	73	34	78	34	82	24	85	24	90	24	42
F#	43	15	62	15	55	15	67	34	74	34	79	34	83	34	86	24	91	24	43
G	44	15	63	15	56	15	68	34	75	34	80	34	84	34	87	34	80	50	44
G#	45	15	64	15	57	15	69	34	76	34	81	34	85	34	88	34	81	50	45
A	46	15	65	15	58	15	70	34	77	34	82	34	86	34	89	34	82	50	46
A#	47	15	66	15	59	15	71	34	78	34	83	34	87	34	90	34	83	50	47
B	48	15	67	15	60	15	72	34	79	34	84	34	88	34	91	34	84	50	48
C	49	10	68	15	61	15	73	34	80	34	85	34	89	34	80	50	85	50	49
C#	50	10	69	15	62	10	74	34	81	34	86	34	90	34	81	50	86	50	50
D	51	10	70	10	63	10	75	34	82	34	87	34	91	34	82	50	87	50	51
D#	52	10	71	10	64	10	76	34	83	34	88	34	80	50	83	50	88	50	52
E	53	10	72	10	65	10	77	34	84	50	89	34	81	50	84	50	89	50	53
F	54	10	73	10	66	10	78	34	85	50	90	34	82	50	85	50	90	50	54
F#	55	10	74	10	67	10	79	34	86	50	91	34	83	50	86	50	91	50	55
G	56	10	75	10	68	10	80	34	87	50	80	50	84	50	87	50	80	50	56
G#	57	10	76	10	69	10	81	34	88	50	81	50	85	50	88	50	81	50	57
A	58	10	77	10	70	10	82	34	89	50	82	50	86	50	89	50	82	50	58
A#	59	10	78	10	71	10	83	34	90	50	83	50	87	50	90	50	83	50	59
B	60	10	79	10	72	10	84	34	91	50	84	50	88	50	91	50	84	50	60
C	61	10	80	10	73	10	85	34	80	50	85	50	89	50	80	50	85	50	61

Keycircuit manual tapering resistance wire ohms values of the 1960-61 RT3 lower manual transplanted by Kon into Nigel's foam damaged 1965 C3. S/n 95228

octave	Keyboard Note	note	16'	ohms	5 1/3'	ohms	8'	ohms	4'	ohms	2 2/3'	ohms	2'	ohms	1 3/5'	ohms	1 2/3'	ohms	1'	ohms	Keyboard Note
1	1	C	13	104	20	37	13	52	25	36	32	11	37	11	41	15	44	25	49	25	1
1	2	C#	14	105	21	37	14	51	26	37	33	11	38	11	42	15	45	24	50	24	2
1	3	D	15	109	22	37	15	53	27	36	34	11	39	11	43	16	46	25	51	24	3
1	4	D#	16	107	23	36	16	53	28	36	35	11	40	11	44	15	47	23	52	25	4
1	5	E	17	105	24	35	17	52	29	36	36	11	41	11	45	16	48	24	53	25	5
1	6	F	18	110	25	37	18	52	30	36	37	11	42	10	46	16	49	23	54	24	6
1	7	F#	19	106	26	36	19	52	31	36	38	11	43	11	47	15	50	23	55	24	7
1	8	G	20	105	27	37	20	52	32	36	39	11	44	11	48	15	51	22	56	24	8
1	9	G#	21	110	28	37	21	51	33	36	40	11	45	11	49	15	52	24	57	25	9
1	10	A	22	106	29	36	22	53	34	36	41	11	46	11	50	15	53	23	58	24	10
1	11	A#	23	125	30	37	23	50	35	36	42	11	47	10	51	15	54	25	59	24	11
1	12	B	24	149	31	36	24	52	36	36	43	11	48	16	52	15	55	23	60	23	12
2	13	C	13	54	32	36	25	51	37	36	44	16	49	16	53	15	56	23	61	24	13
2	14	C#	14	52	33	37	26	52	38	24	45	16	50	16	54	15	57	24	62	24	14
2	15	D	15	53	34	25	27	52	39	24	46	16	51	16	55	15	58	24	63	24	15
2	16	D#	16	53	35	25	28	35	40	24	47	16	52	16	56	15	59	24	64	24	16
2	17	E	17	35	36	25	29	35	41	24	48	16	53	16	57	15	60	24	65	24	17
2	18	F	18	36	37	23	30	35	42	23	49	16	54	15	58	15	61	24	66	25	18
2	19	F#	19	36	38	24	31	36	43	24	50	15	55	16	59	24	62	24	67	24	19
2	20	G	20	36	39	24	32	35	44	24	51	15	56	24	60	24	63	24	68	24	20
2	21	G#	21	35	40	25	33	35	45	24	52	23	57	23	61	24	64	24	69	24	21
2	22	A	22	36	41	25	34	35	46	24	53	23	58	24	62	24	65	24	70	25	22
2	23	A#	23	35	42	24	35	35	47	24	54	23	59	23	63	25	66	24	71	24	23
2	24	B	24	35	43	26	36	25	48	24	55	23	60	23	64	25	67	24	72	24	24
3	25	C	25	23	44	25	37	26	49	24	56	23	61	24	65	25	68	24	73	25	25
3	26	C#	26	23	45	25	38	25	50	22	57	24	62	24	66	24	69	24	74	24	26
3	27	D	27	23	46	24	39	25	51	24	58	24	63	24	67	24	70	24	75	25	27
3	28	D#	28	23	47	24	40	26	52	24	59	24	64	24	68	24	71	24	76	24	28
3	29	E	29	23	48	24	41	25	53	24	60	23	65	24	69	24	72	24	77	24	29
3	30	F	30	23	49	24	42	24	1	24	61	23	66	24	70	25	73	24	78	24	30
3	31	F#	31	23	50	25	43	25	55	24	62	23	67	24	71	23	74	24	79	25	31
3	32	G	32	23	51	25	44	25	56	24	63	23	68	24	72	22	75	23	80	24	32
3	33	G#	33	23	52	25	45	26	57	24	64	24	69	26	73	24	76	24	81	24	33
3	34	A	34	23	53	25	46	25	58	24	65	23	70	24	74	24	77	24	82	24	34
3	35	A#	35	24	54	24	47	25	59	24	66	23	71	24	75	24	78	23	83	25	35
3	36	B	36	24	55	24	48	25	60	24	67	23	72	24	76	24	79	23	84	27	36
4	37	C	37	16	56	24	49	25	61	23	68	23	73	23	77	23	80	24	85	24	37
4	38	C#	38	16	57	24	50	16	62	25	69	23	74	24	78	23	81	24	86	24	38
4	39	D	39	16	58	16	51	16	63	23	70	23	75	24	79	24	82	24	87	24	39
4	40	D#	40	16	59	15	52	16	64	36	71	23	76	24	80	24	83	23	88	24	40
4	41	E	41	16	60	15	53	15	65	36	72	36	77	23	81	24	84	24	89	24	41
4	42	F	42	16	61	16	54	16	66	36	73	36	78	36	82	22	85	24	90	24	42
4	43	F#	43	16	62	16	55	15	67	36	74	36	79	36	83	36	86	25	91	25	43
4	44	G	44	16	63	15	56	16	68	36	75	36	80	37	84	36	87	36	92	52	44
4	45	G#	45	16	64	15	57	15	69	36	76	36	81	35	85	35	88	36	93	52	45
4	46	A	46	16	65	15	58	16	70	36	77	37	82	35	86	34	89	35	94	51	46
4	47	A#	47	16	66	15	59	16	71	36	78	36	83	36	87	34	90	35	95	51	47
4	48	B	48	16	67	16	60	15	72	36	79	36	84	36	88	35	91	35	96	52	48
5	49	C	49	11	68	15	61	15	73	36	80	36	85	35	89	35	92	52	97	52	49
5	50	C#	50	11	69	17	62	11	74	36	81	35	86	34	90	35	93	52	98	52	50
5	51	D	51	11	70	11	63	11	75	36	82	36	87	36	91	35	94	52	99	51	51
5	52	D#	52	11	71	11	64	11	76	36	83	36	88	34	92	51	95	53	100	52	52
5	53	E	53	11	72	11	65	11	77	35	84	52	89	36	93	51	96	51	101	51	53
5	54	F	54	11	73	11	66	11	78	37	85	53	90	36	94	52	97	51	102	51	54
5	55	F#	55	55	74	11	67	11	79	36	86	53	91	35	95	51	98	53	103	52	55
5	56	G	56	11	75	11	68	11	80	36	87	52	92	52	96	51	99	52	104	52	56
5	57	G#	57	11	76	11	69	11	81	36	88	52	93	53	97	49	100	53	105	52	57
5	58	A	58	11	77	11	70	11	82	36	89	53	94	53	98	52	101	52	106	51	58
5	59	A#	59	11	78	11	71	11	83	36	90	52	95	53	99	51	102	52	107	52	59
5	60	B	60	11	79	11	72	11	84	36	91	54	96	53	100	51	103	53	108	52	60

6	61	C	61	11	80	11	73	11	85	36	80	51	85	52	89	51	80	52	85	52	61
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Keycircuit manual tapering resistance wire ohms values of the 1960-61 RT3 upper manual transplanted by Kon into Nigel's foam damaged 1965 C3. S/n 95228

octave	Keyboard Note	note	16'	ohms	5 1/3'	ohms	8'	ohms	4'	ohms	2 2/3'	ohms	2'	ohms	1 3/5'	ohms	1 2/3'	ohms	1'	ohms	Keyboard Note
1	1	C	13	105	20	36	13	53	25	35	32	11	37	11	41	15	44	23	49	23	1
1	2	C#	14	109	21	36	14	51	26	36	33	11	38	11	42	15	45	23	50	23	2
1	3	D	15	107	22	36	15	50	27	36	34	11	39	11	43	15	46	23	51	23	3
1	4	D#	16	109	23	36	16	53	28	36	35	11	40	11	44	14	47	24	52	23	4
1	5	E	17	105	24	36	17	52	29	36	36	11	41	11	45	15	48	23	53	23	5
1	6	F	18	105	25	36	18	52	30	35	37	10	42	11	46	15	49	24	54	23	6
1	7	F#	19	109	26	36	19	52	31	35	38	11	43	10	47	15	50	24	55	23	7
1	8	G	20	104	27	36	20	53	32	36	39	11	44	11	48	15	51	24	56	23	8
1	9	G#	21	107	28	36	21	52	33	36	40	11	45	11	49	15	52	23	57	23	9
1	10	A	22	104	29	37	22	52	34	36	41	11	46	11	50	15	53	23	58	23	10
1	11	A#	23	130	30	36	23	53	35	35	42	11	47	10	51	15	54	22	59	23	11
1	12	B	24	150	31	36	24	52	36	36	43	11	48	15	52	16	55	24	60	24	12
2	13	C	13	55	32	37	25	52	37	35	44	16	49	15	53	15	56	23	61	23	13
2	14	C#	14	52	33	35	26	52	38	25	45	16	50	15	54	16	57	23	62	23	14
2	15	D	15	53	34	25	27	52	39	24	46	16	51	15	55	15	58	23	63	23	15
2	16	D#	16	53	35	26	28	35	40	25	47	16	52	15	56	15	59	23	64	23	16
2	17	E	17	36	36	25	29	35	41	24	48	16	53	15	57	16	60	23	65	23	17
2	18	F	18	35	37	24	30	35	42	24	49	16	54	16	58	15	61	23	66	23	18
2	19	F#	19	35	38	25	31	35	43	23	50	15	55	16	59	24	62	23	67	23	19
2	20	G	20	36	39	24	32	35	44	25	51	16	56	25	60	24	63	23	68	23	20
2	21	G#	21	36	40	25	33	35	45	24	52	24	57	25	61	23	64	23	69	23	21
2	22	A	22	34	41	25	34	35	46	22	53	24	58	25	62	23	65	23	70	23	22
2	23	A#	23	35	42	24	35	35	47	24	54	23	59	25	63	24	66	23	71	22	23
2	24	B	24	35	43	24	36	24	48	24	55	23	60	25	64	24	67	23	72	23	24
3	25	C	25	23	44	24	37	24	49	21	56	23	61	26	65	24	68	21	73	21	25
3	26	C#	26	24	45	25	38	25	50	24	57	24	62	25	66	23	69	23	74	23	26
3	27	D	27	24	46	25	39	25	51	24	58	24	63	25	67	23	70	23	75	23	27
3	28	D#	28	23	47	24	40	24	52	24	59	23	64	25	68	24	71	22	76	23	28
3	29	E	29	23	48	25	41	25	53	25	60	23	65	25	69	24	72	23	77	23	29
3	30	F	30	23	49	25	42	25	54	24	61	23	66	25	70	23	73	23	78	23	30
3	31	F#	31	24	50	25	43	25	55	24	62	23	67	24	71	23	74	23	79	23	31
3	32	G	32	23	51	23	44	24	56	24	63	23	68	22	72	23	75	23	80	23	32
3	33	G#	33	22	52	25	45	25	57	24	64	23	69	23	73	23	76	23	81	23	33
3	34	A	34	23	53	25	46	24	58	24	65	23	70	22	74	23	77	23	82	23	34
3	35	A#	35	23	54	24	47	25	59	24	66	23	71	23	75	23	78	23	83	23	35
3	36	B	36	23	55	25	48	24	60	24	67	23	72	25	76	23	79	23	84	22	36
4	37	C	37	16	56	25	49	25	61	23	68	24	73	23	77	23	80	23	85	22	37
4	38	C#	38	16	57	26	50	15	62	24	69	23	74	23	78	24	81	23	86	23	38
4	39	D	39	15	58	15	51	15	63	24	70	23	75	23	79	24	82	23	87	23	39
4	40	D#	40	16	59	16	52	15	64	36	71	23	76	23	80	24	83	23	88	23	40
4	41	E	41	16	60	15	53	15	65	35	72	36	77	23	81	23	84	23	89	23	41
4	42	F	42	16	61	15	54	16	66	33	73	36	78	35	82	23	85	23	90	23	42
4	43	F#	43	16	62	16	55	16	67	36	74	35	79	38	83	35	86	23	91	23	43
4	44	G	44	15	63	16	56	16	68	35	75	34	80	36	84	35	87	36	92	49	44
4	45	G#	45	15	64	16	57	15	69	36	76	35	81	36	85	38	88	35	93	51	45
4	46	A	46	16	65	15	58	15	70	36	77	36	82	36	86	38	89	35	94	52	46
4	47	A#	47	16	66	16	59	16	71	35	78	36	83	36	87	35	90	34	95	51	47
4	48	B	48	16	67	15	60	15	72	36	79	36	84	35	88	35	91	35	96	53	48
5	49	C	49	11	68	16	61	15	73	36	80	35	85	35	89	35	92	52	97	52	49
5	50	C#	50	11	69	16	62	11	74	35	81	36	86	36	90	35	93	51	98	51	50
5	51	D	51	11	70	11	63	11	75	37	82	35	87	36	91	36	94	52	99	51	51
5	52	D#	52	11	71	11	64	11	76	35	83	36	88	36	92	51	95	51	100	50	52
5	53	E	53	11	72	11	65	10	77	36	84	36	89	36	93	51	96	51	101	51	53
5	54	F	54	11	73	11	66	11	78	36	85	36	90	36	94	51	97	51	102	52	54
5	55	F#	55	11	74	11	67	11	79	34	86	34	91	35	95	51	98	51	103	48	55
5	56	G	56	11	75	11	68	11	80	35	87	34	92	35	96	51	99	52	104	51	56
5	57	G#	57	11	76	11	69	11	81	36	88	34	93	35	97	52	100	51	105	51	57
5	58	A	58	11	77	11	70	11	82	36	89	34	94	35	98	51	101	50	106	52	58
5	59	A#	59	11	78	11	71	11	83	36	90	34	95	35	99	50	102	52	107	52	59
5	60	B	60	11	79	11	72	11	84	35	91	34	96	35	100	51	103	50	108	51	60
6	61	C	61	11	80	11	73	11	85	35	92	34	97	35	101	52	104	50	109	52	61

