

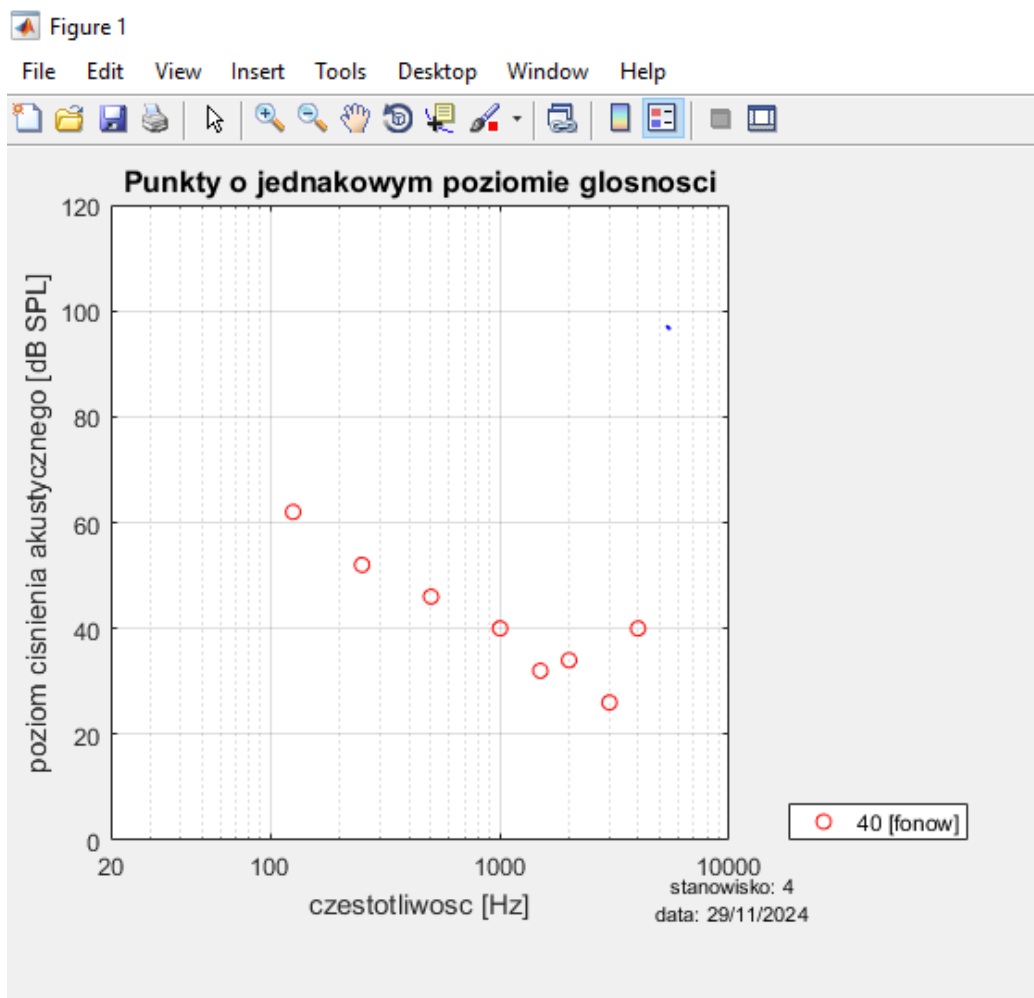
SPD Lab 1 Głośność

Krzysztof Rudnicki, 307585

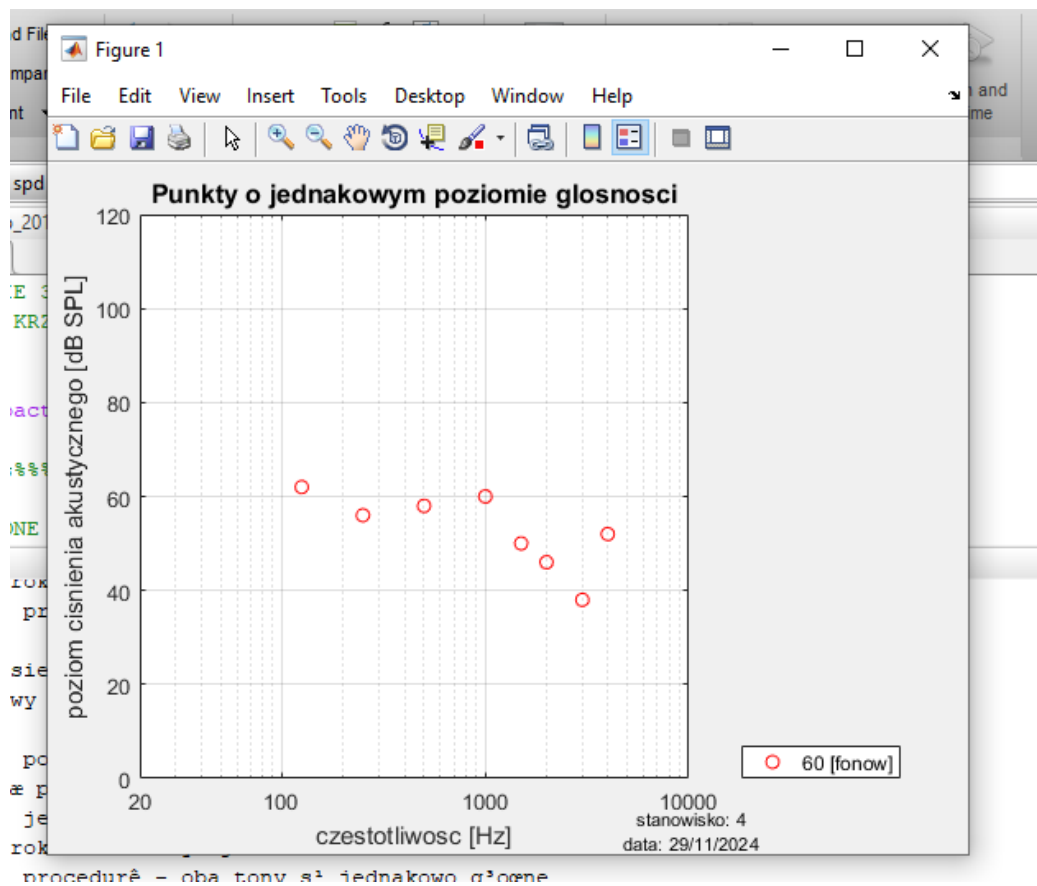
12 kwietnia 2025

1 Krzywe poziomu głośności

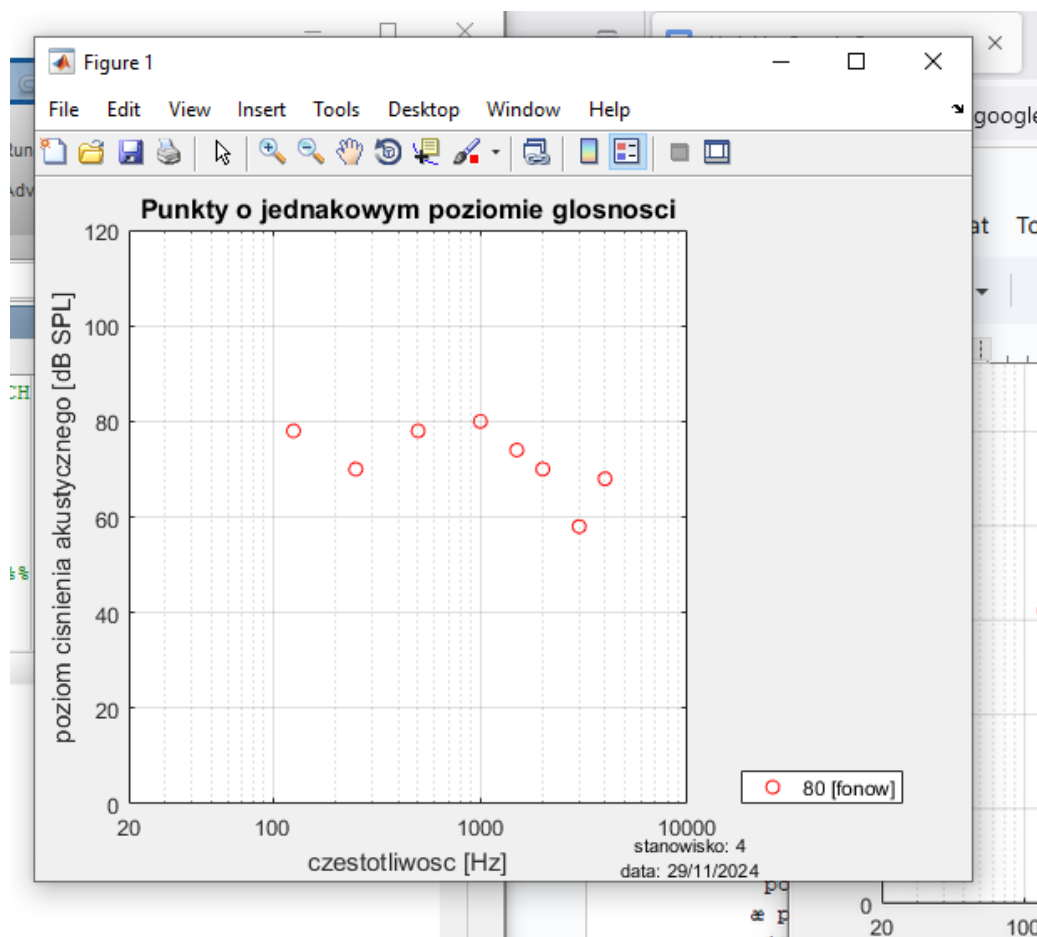
	Częstotliwość f tonu regulowanego (Hz)							
Poziom tonu odniesienia 1000 Hz (dB)	125	250	500	1000	1500	2000	3000	4000
40	62	52	46	40	32	34	26	40
60	62	56	58	60	50	46	38	52
80	78	70	78	80	74	70	58	68



Rysunek 1: Krzywa poziomu głośności dla 40 dB



Rysunek 2: Krzywa poziomu głośności dla 60 dB



Rysunek 3: Krzywa poziomu głośności dla 80 dB

2 Sony

Poziomy [fony] Poziomy [dB] i macierz ocen:

ans =

Columns 1 through 11

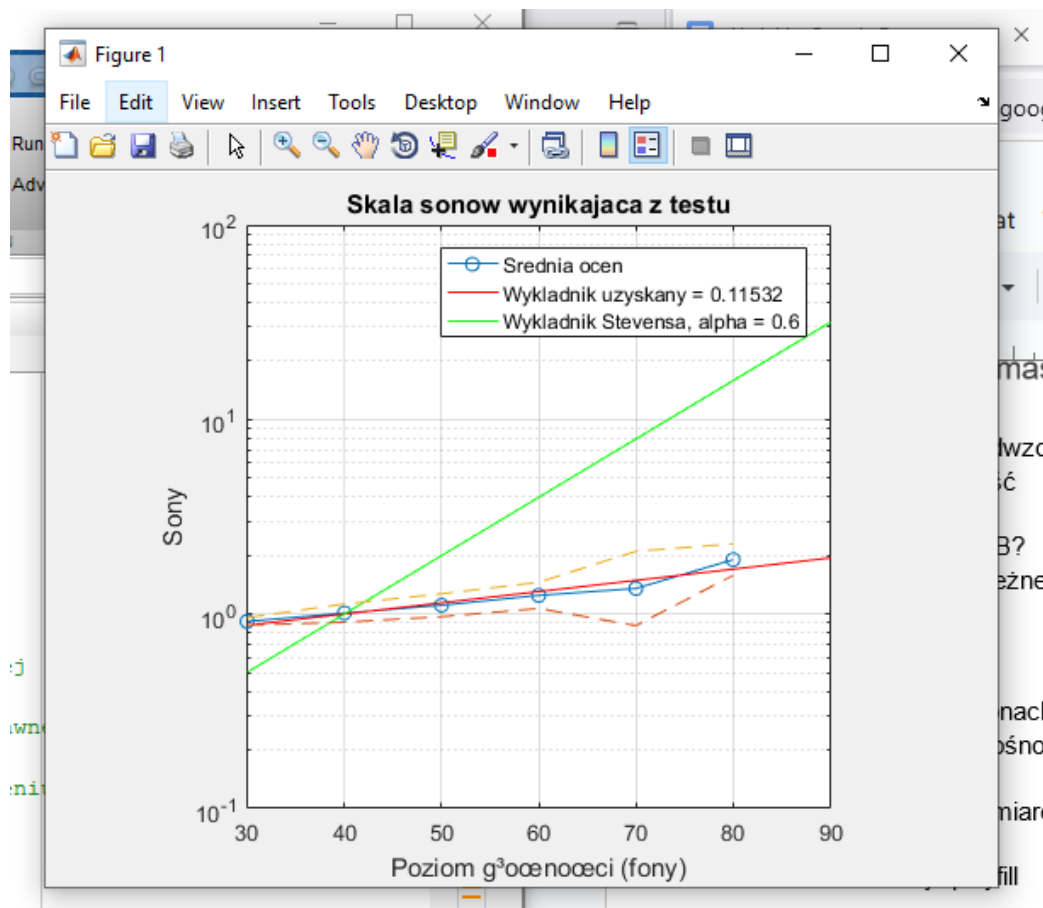
30.0000	30.0083	30.0000	30.0000	30.0000
30.0000	30.0000	30.0000	30.0000	33.0000
30.0000	40.0000	40.0100	35.0000	30.0000
35.0000	30.0000	35.0000	30.0000	30.0000
30.0000	35.0000	50.0000	50.0110	50.0000
30.0000	40.0000	35.0000	35.0000	40.0000
40.0000	35.0000	40.0000	60.0000	60.0116
0.0000	35.0000	41.0000	46.0000	40.0000
50.0000	49.0000	40.0000	40.0000	70.0000
70.0119	40.0000	40.0000	45.0000	45.0000
50.0000	70.0000	45.0000	50.0000	60.0000
80.0000	80.0121	80.0000	65.0000	75.0000
75.0000	56.0000	50.0000	50.0000	55.0000
55.0000				

Columns 12 through 22

30.0000	30.0000	28.0000	30.0000	32.0000
30.0000	25.0000	30.0000	30.0000	30.0000
29.0000	39.0000	30.0000	40.0000	30.0000
35.0000	30.0000	30.0000	35.0000	30.0000
35.0000	33.0000	30.0000	39.0000	38.0000
30.0000	35.0000	35.0000	30.0000	45.0000
40.0000	39.0000	30.0000	33.0000	35.0000
40.0000	35.0000	35.0000	40.0000	40.0000
35.0000	38.0000	55.0000	30.0000	40.0000
55.0000	45.0000	45.0000	40.0000	40.0000
60.0000	40.0000	45.0000	48.0000	65.0000
50.0000	60.0000	78.0000	78.0000	45.0000
45.0000	80.0000	70.0000	55.0000	75.0000
60.0000				

Columns 23 through 32

30.0000	29.0000	28.0000	30.0000	29.0000
29.0000	30.0000	30.0000	30.0000	30.0000
30.0000	30.0000	40.0000	38.0000	30.0000
30.0000	35.0000	29.0000	30.0000	40.0000
40.0000	40.0000	37.0000	30.0000	30.0000
35.0000	36.0000	35.0000	30.0000	40.0000
40.0000	40.0000	45.0000	39.0000	45.0000
60.0000	40.0000	50.0000	36.0000	35.0000
40.0000	45.0000	55.0000	40.0000	42.0000
45.0000	50.0000	60.0000	45.0000	5.0000
65.0000	75.0000	50.0000	45.0000	70.0000
65.0000	55.0000	70.0000	70.0000	60.0000



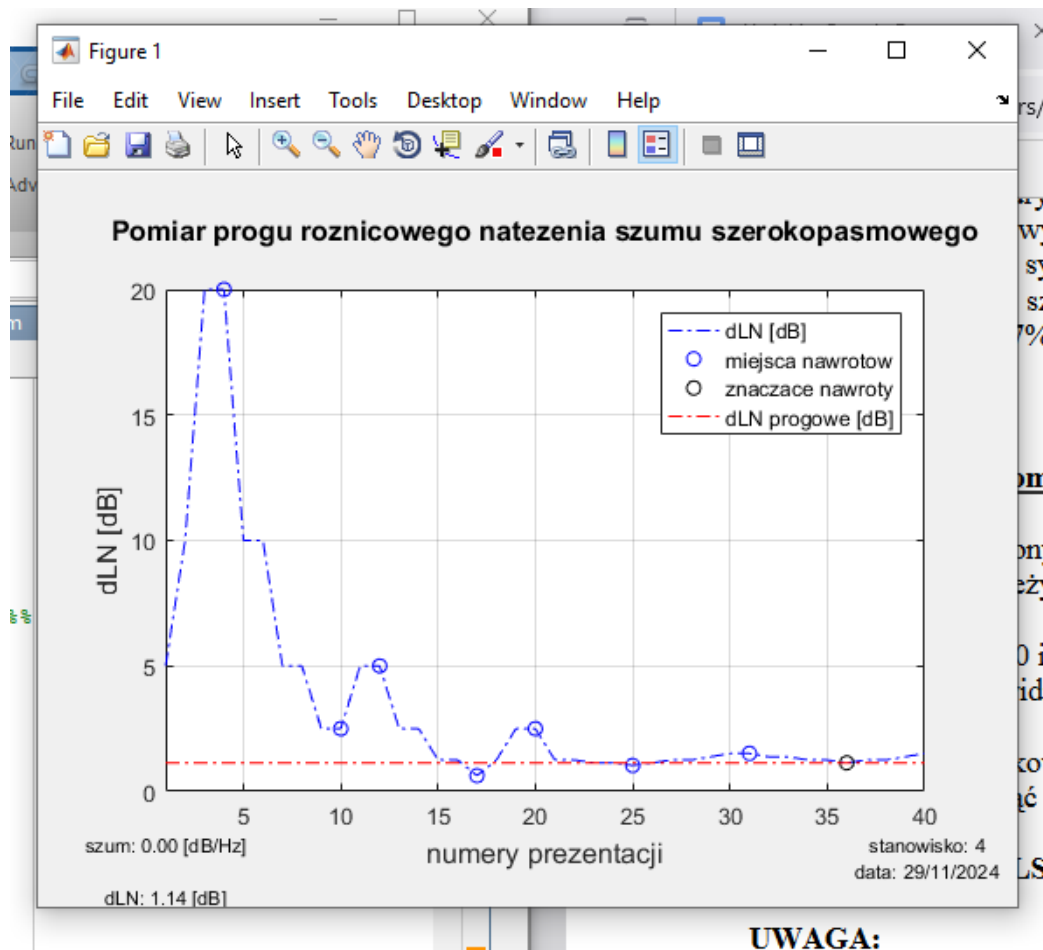
Rysunek 4: Macierz ocen Sony

Poziomy [fony]	Poziomy [dB]	Oceny œrednie	Zakres minus	Zakres plus
30.0000	30.0083	29.7054	28.4096	31.0602
40.0000	40.0100	32.7776	29.4227	36.5149
50.0000	50.0110	35.9764	31.4093	41.2075
60.0000	60.0116	40.4154	34.6291	47.1686
70.0000	70.0119	43.8832	28.2547	68.1563
80.0000	80.0121	61.7038	51.2020	74.3595

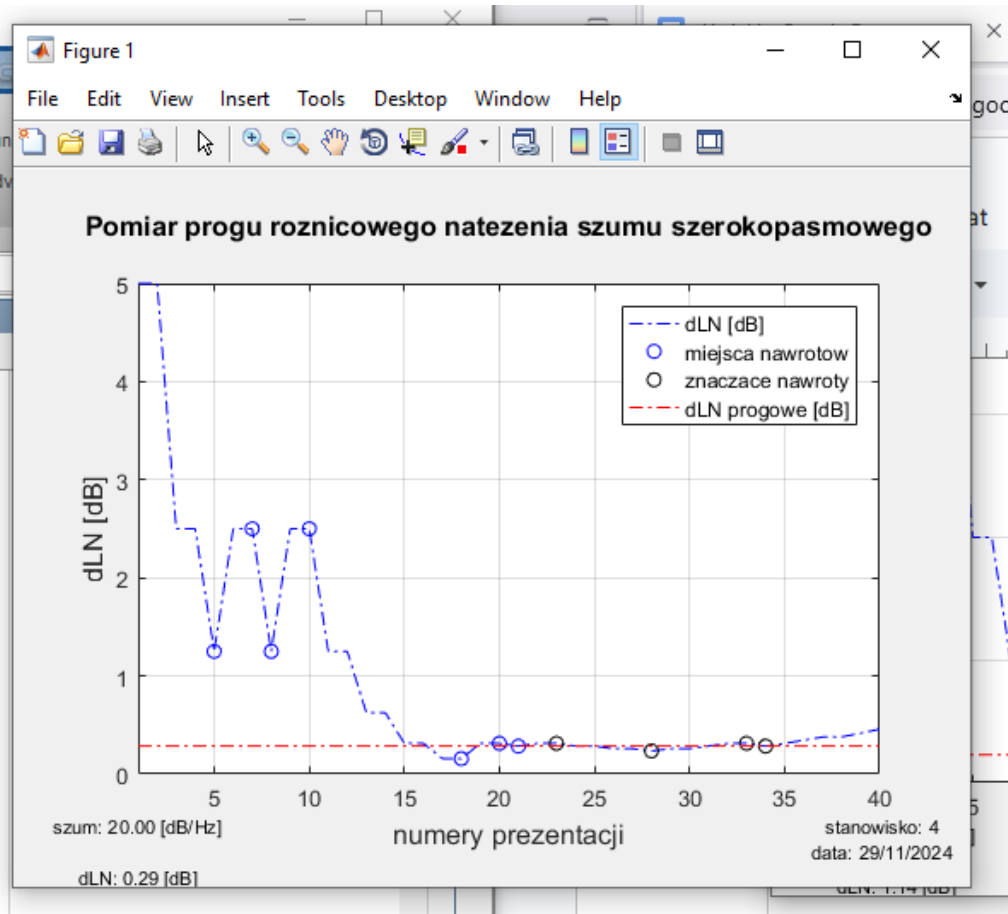
Poziomy [fony]	Poziomy [dB]	Wartości w sonach	Zakres minus	Zakres plus
30.0000	30.0083	0.9163	0.8764	0.9581
40.0000	40.0100	1.0111	0.9076	1.1264
50.0000	50.0110	1.1098	0.9689	1.2712
60.0000	60.0116	1.2467	1.0682	1.4550
70.0000	70.0119	1.3537	0.8716	2.1025
80.0000	80.0121	1.9034	1.5795	2.2938

3 ΔL

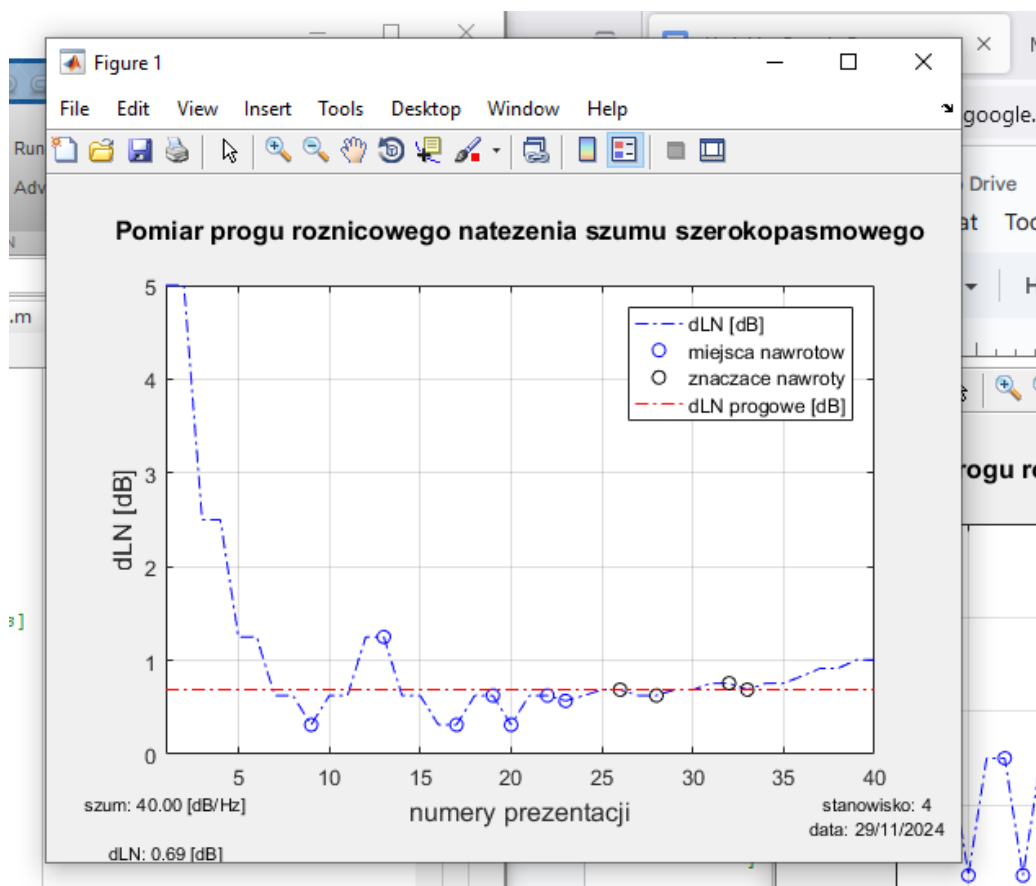
3.1 ΔL szum



Rysunek 5: ΔL szum 0 dB

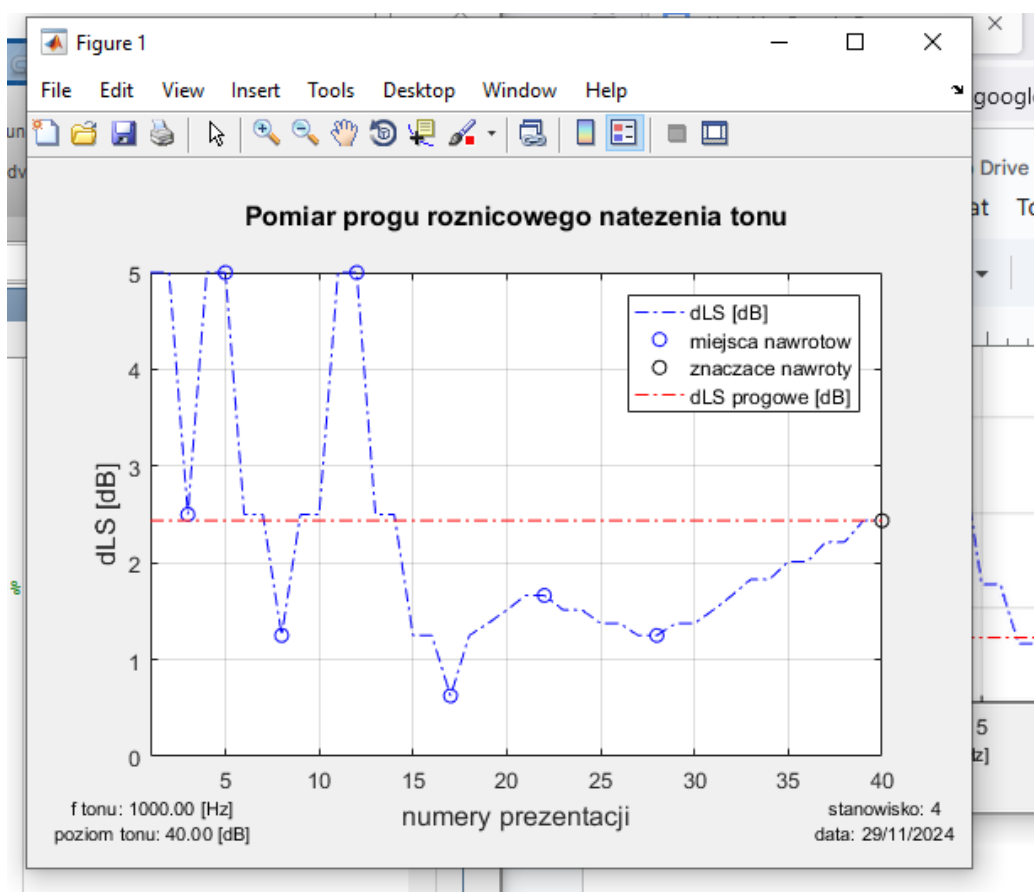


Rysunek 6: ΔL szum 20 dB

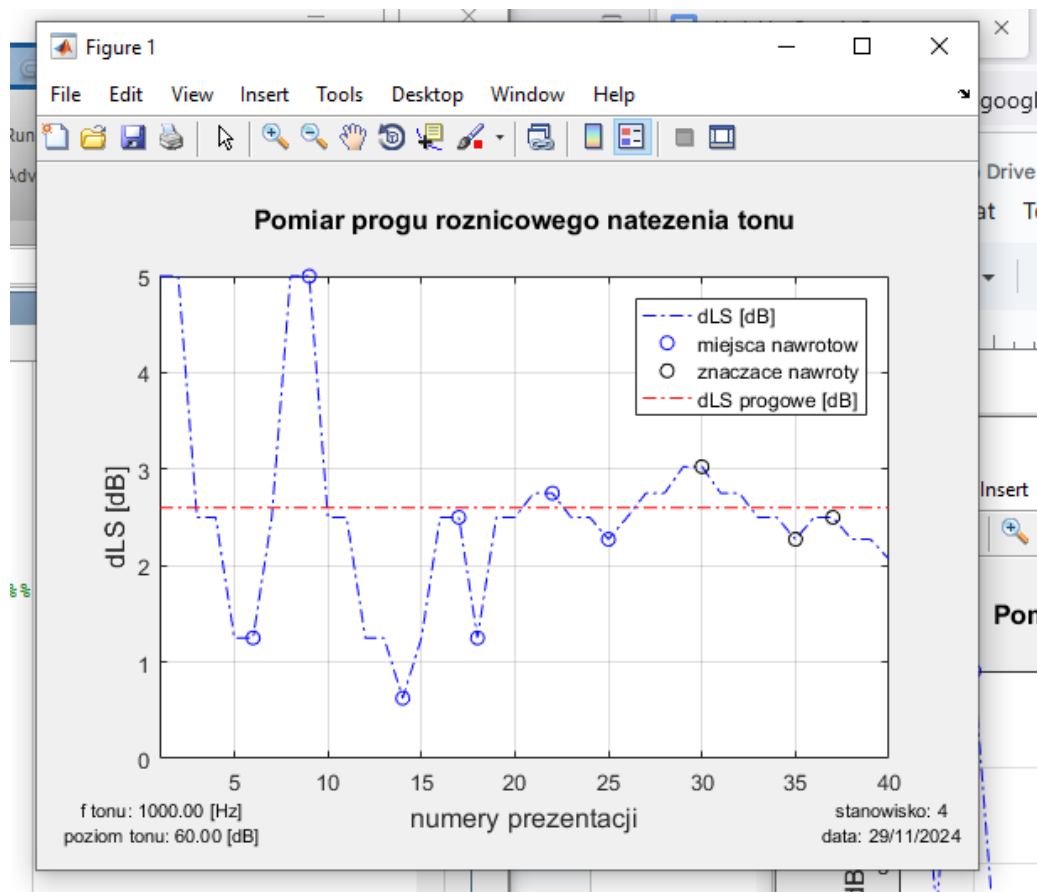


Rysunek 7: ΔL szum 40 dB

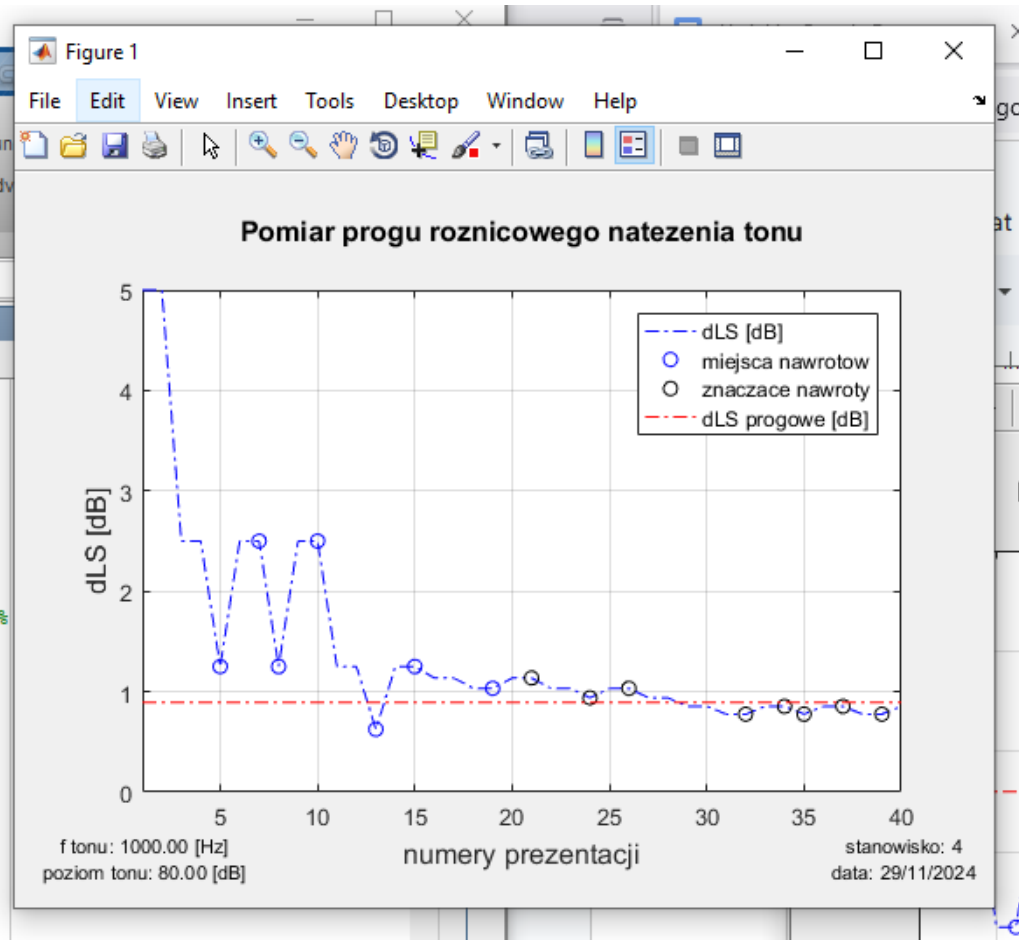
3.2 ΔL ton



Rysunek 8: ΔL ton 40 dB



Rysunek 9: ΔL ton 60 dB



Rysunek 10: ΔL ton 80 dB