



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.a>

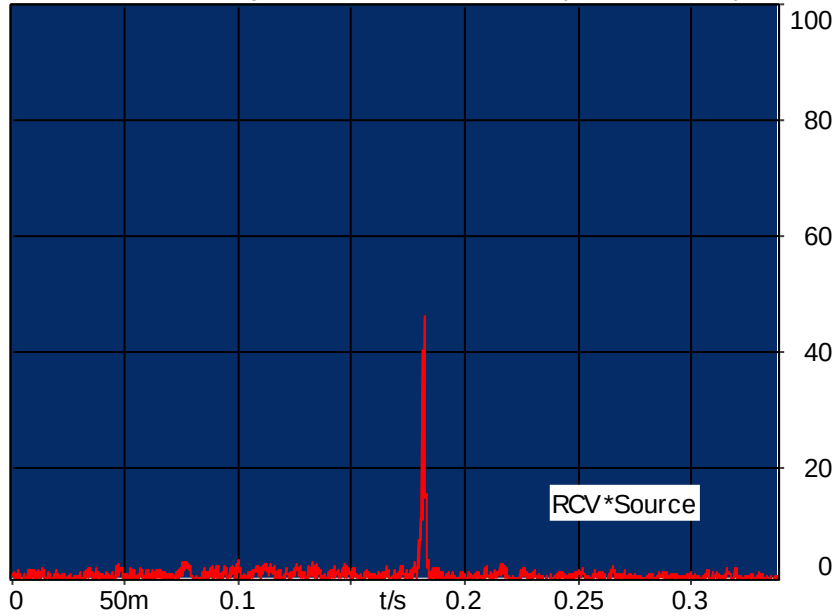
#1 LTE B48 EVS NB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	182.6
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.19
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.74
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.57
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.54
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.32
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.52
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.11
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.79
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.79
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.28
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.41
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.74
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 1000Hz)	21.11
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.70
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.15
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.26
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.37
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.14
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.86
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.47
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.39
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.74
5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	45.15
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 1000Hz)	22.14
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2057.5 Hz	2.20
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	2.08

Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %



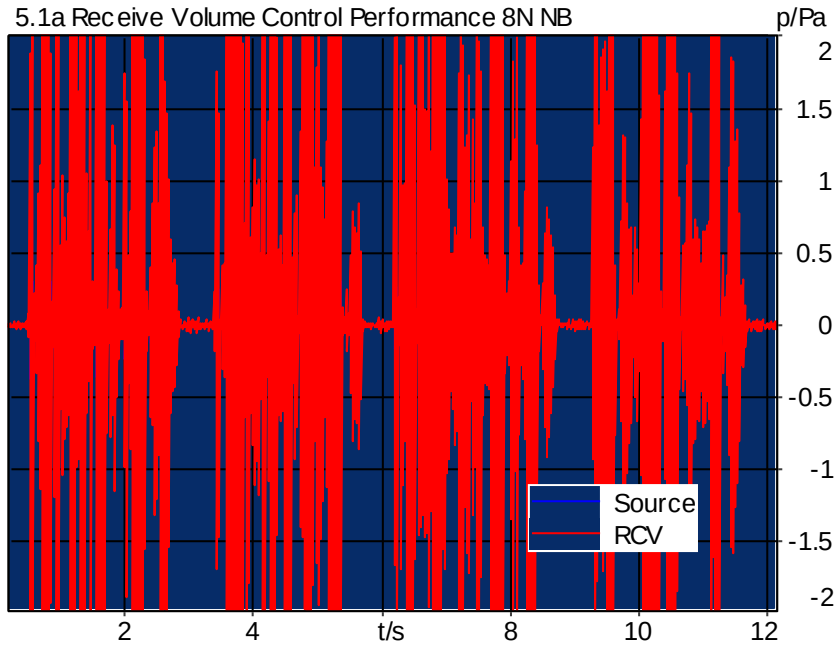
Channel	Delay	Correlation
RCV*Source	182.6 ms	46.17 %

2026-03-04 上午 04:59 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1a Receive Volume Control Performance 8N NB



Channel	Speech level	Activity	
RCV	91.19 dB[SPL]	84.54%	Ok

Ok

2026-03-04 上午 04:59 ACQUA 6.2.210

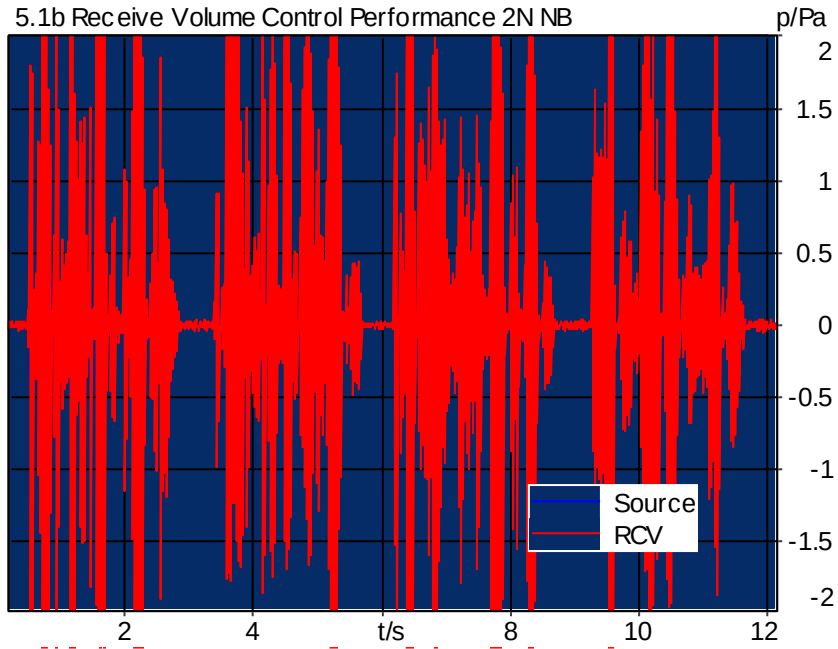
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1b Receive Volume Control Performance 2N NB



Channel	Speech level	Activity	
RCV	86.74 dB[SPL]	83.98%	Ok

Ok

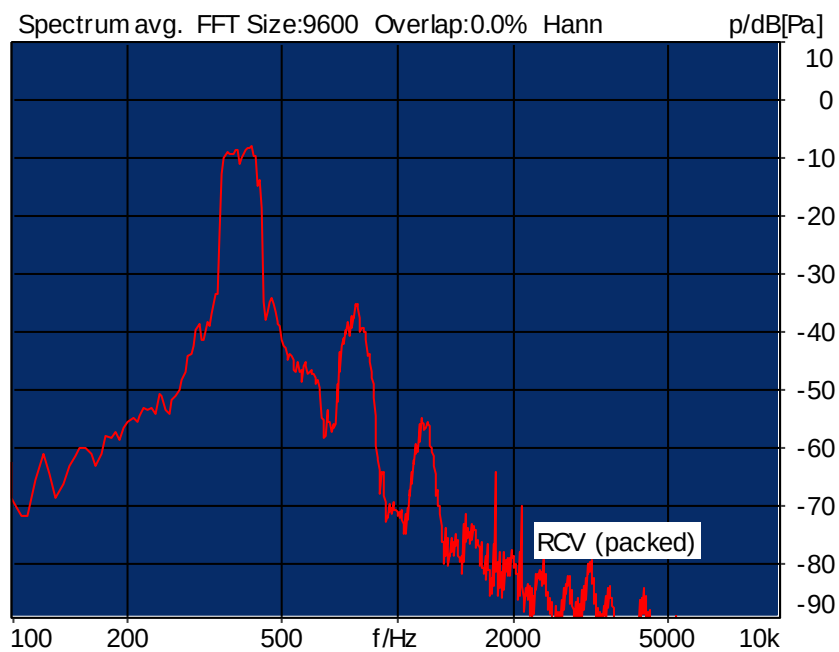
2026-03-04 上午 05:05 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 400 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 27.57 dB (4.18%) Ok

Ok

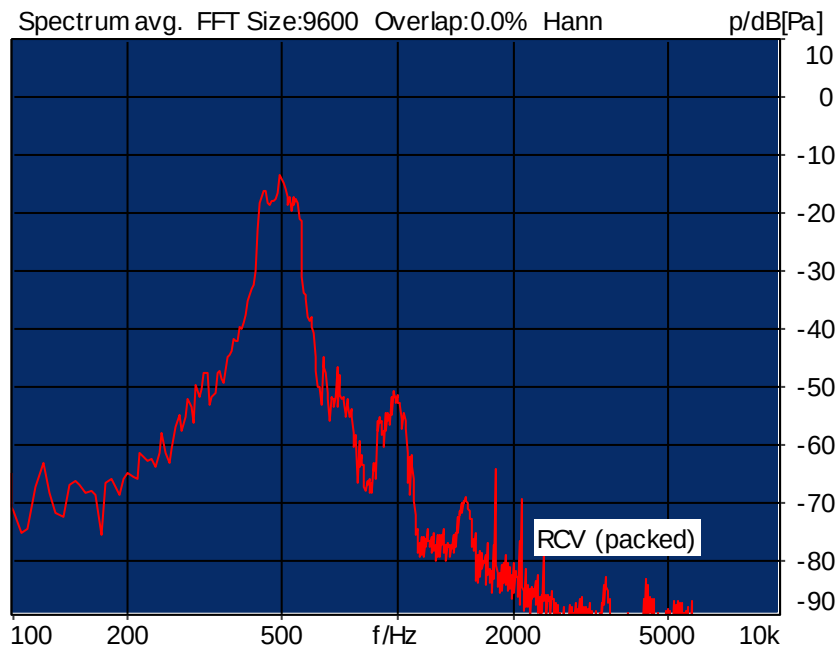
2026-03-04 上午 05:00 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.54 dB (3.74%) Ok

Ok

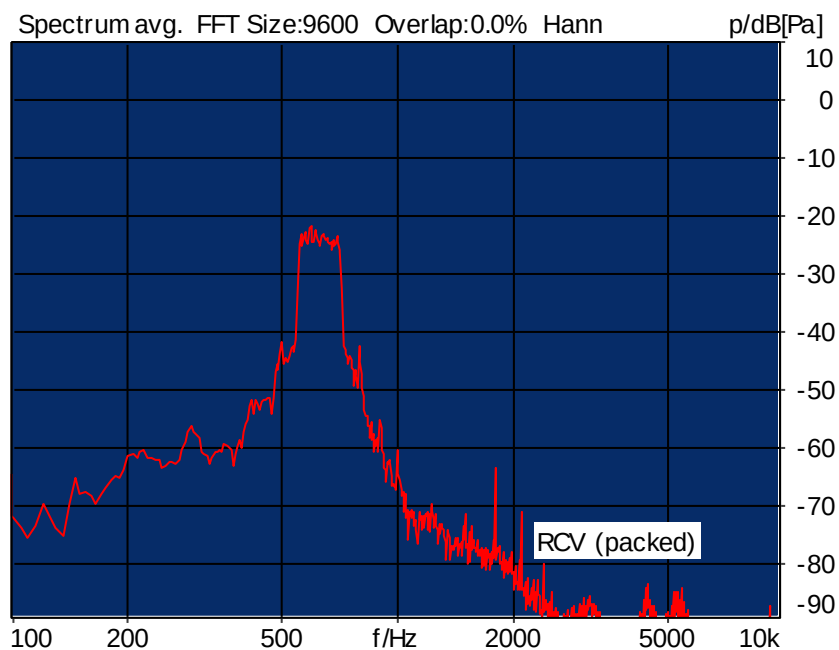
2026-03-04 上午 05:00 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 24.32 dB (6.08%) Ok

Ok

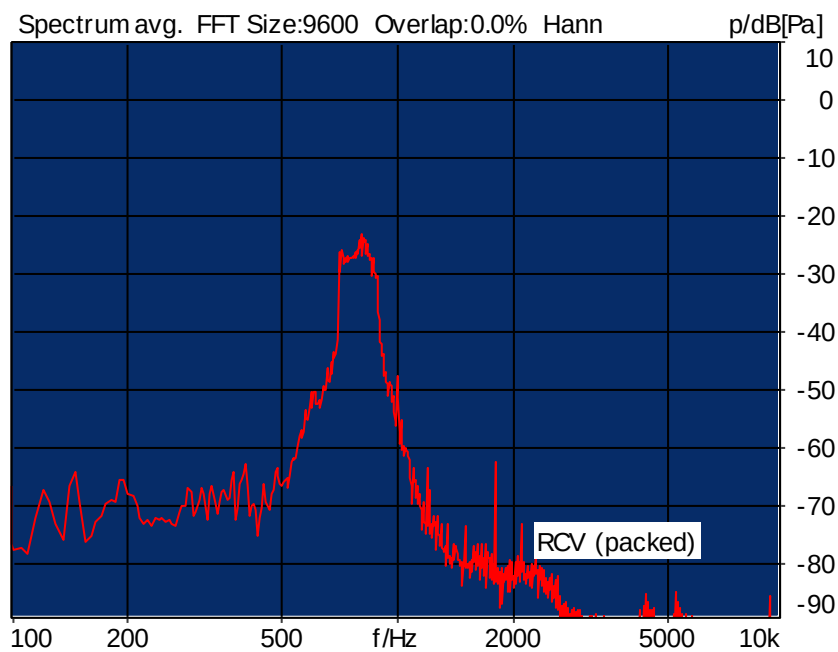
2026-03-04 上午 05:01 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 24.52 dB (5.95%) Ok

Ok

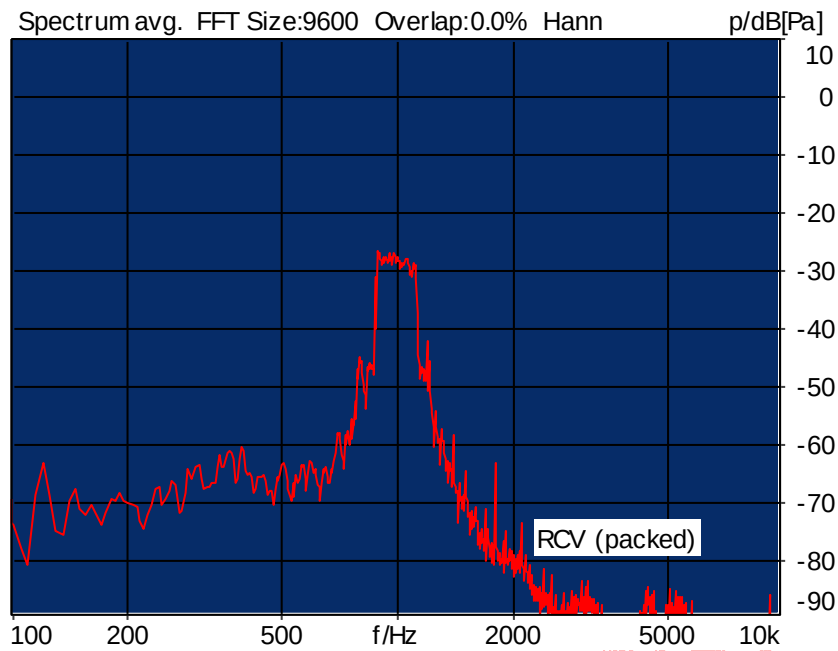
2026-03-04 上午 05:01 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 21.11 dB (8.80%) Ok

Ok

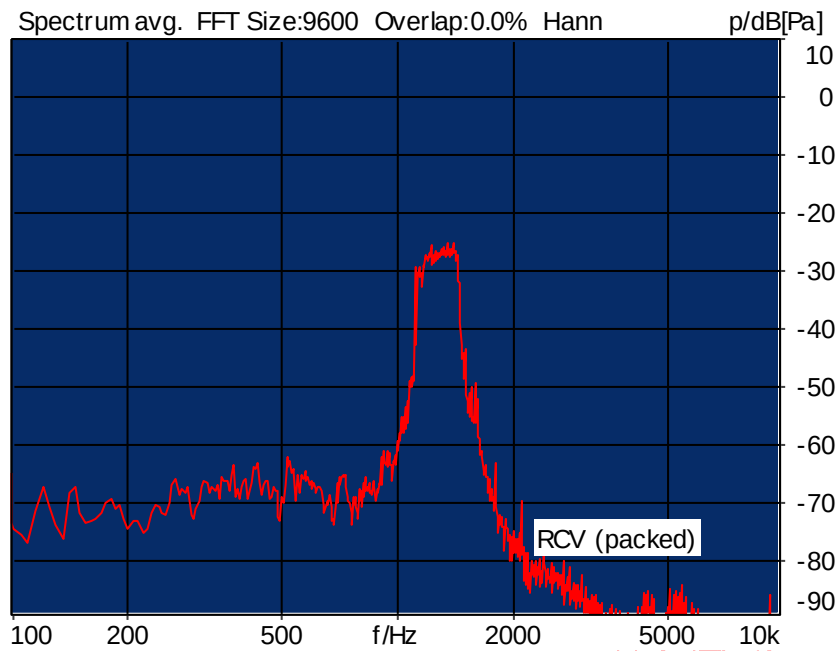
2026-03-04 上午 05:02 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 21.79 dB (8.14%) Ok

Ok

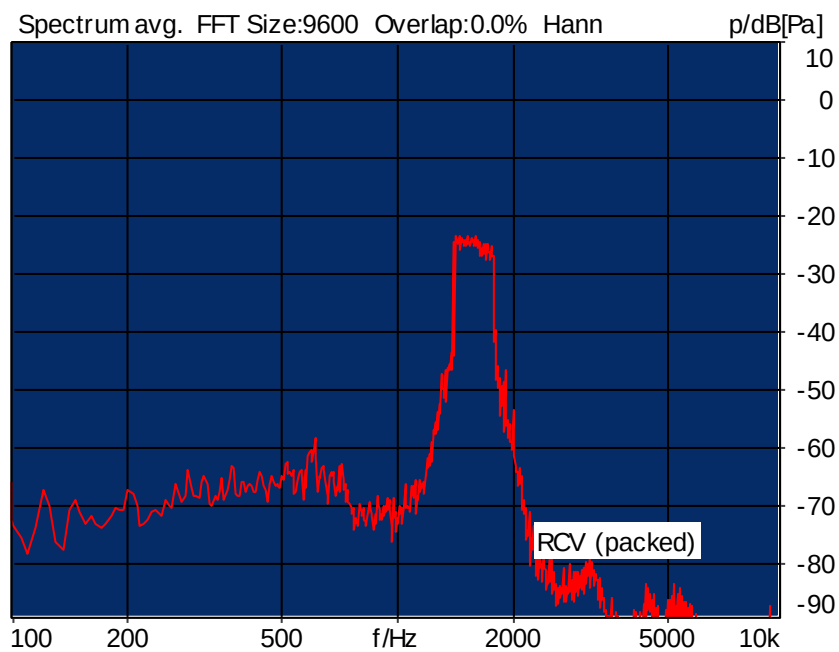
2026-03-04 上午 05:02 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 25.79 dB (5.13%) Ok

Ok

2026-03-04 上午 05:03 ACQUA 6.2.210

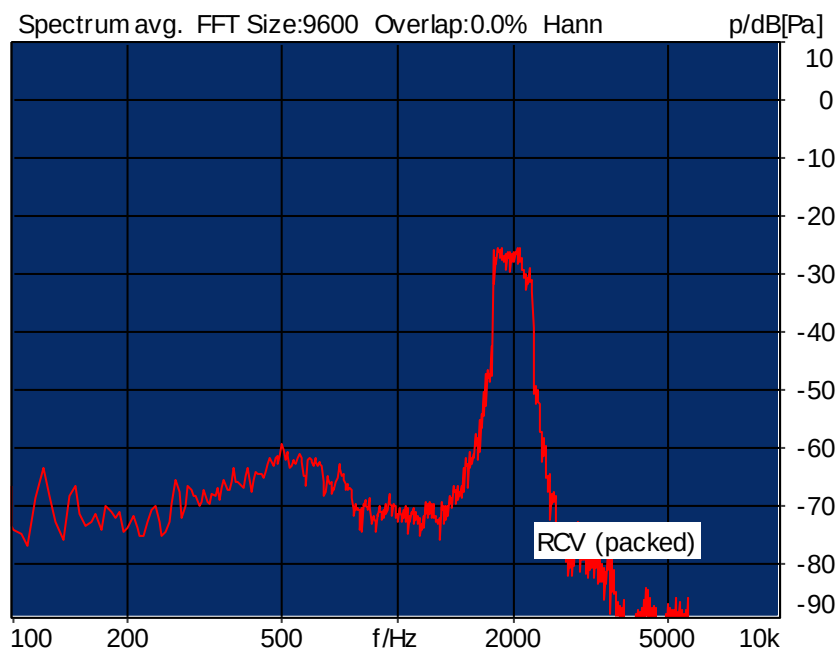
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 25.28 dB (5.45%) Ok

Ok

2026-03-04 上午 05:03 ACQUA 6.2.210

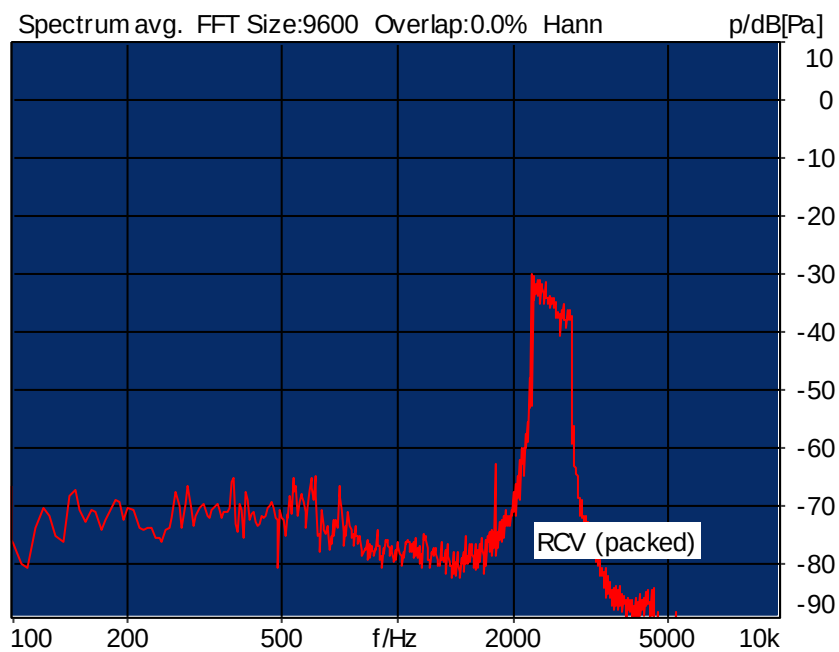
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 26.41 dB (4.78%) Ok

Ok

2026-03-04 上午 05:04 ACQUA 6.2.210

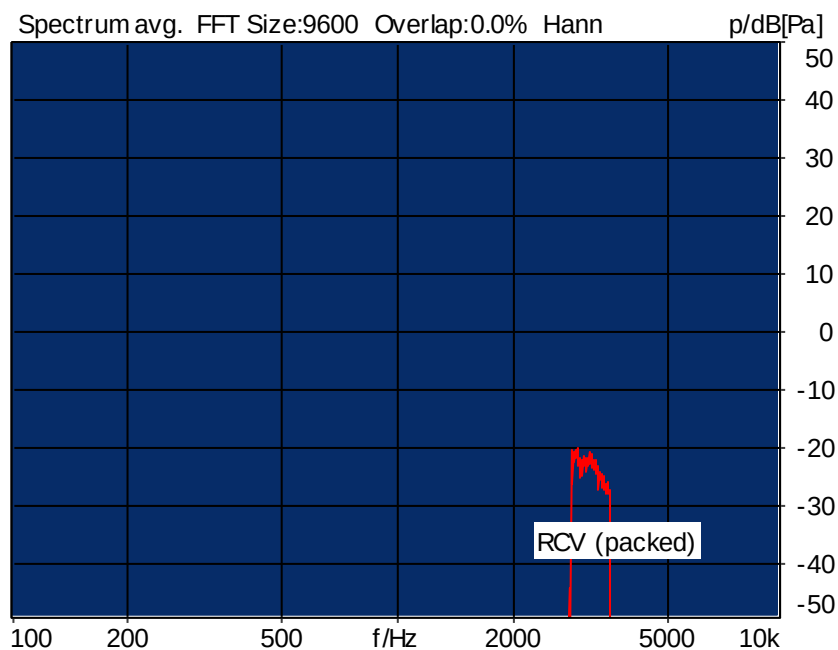
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 44.74 dB (0.58%) Ok

Ok

2026-03-04 上午 05:04 ACQUA 6.2.210

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range

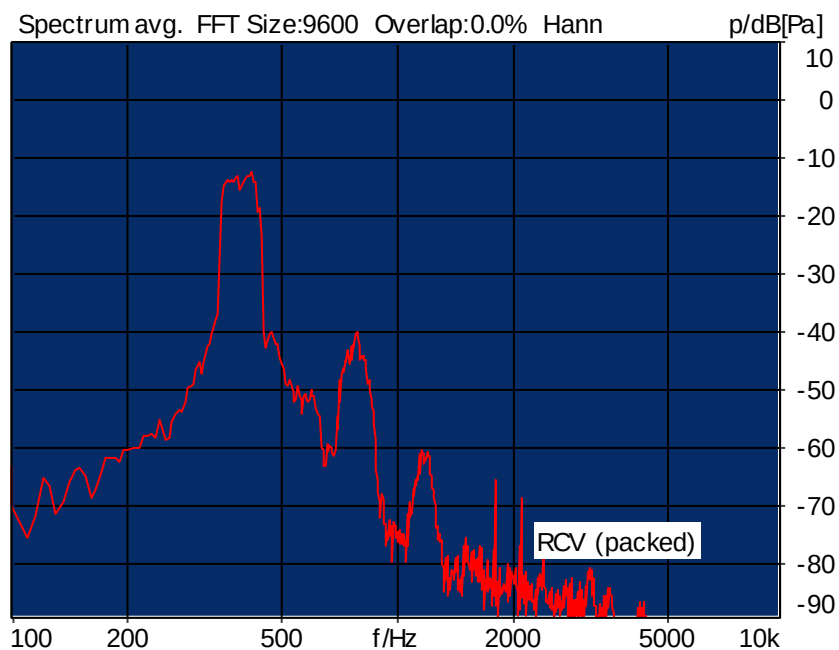
Region	Frequency	SDNR
1	400Hz	27.57 dB
2	500Hz	28.54 dB
3	630Hz	24.32 dB
4	800Hz	24.52 dB
5	1000Hz	21.11 dB
6	1250Hz	21.79 dB
7	1600Hz	25.79 dB
8	2000Hz	25.28 dB
9	2500Hz	26.41 dB
10	3150Hz	44.74 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.11dB at 1000Hz.

2026-03-04 上午 05:04 ACQUA

5.2 RCV Distortion and Noise - 400 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 27.70 dB (4.12%) Ok

Ok

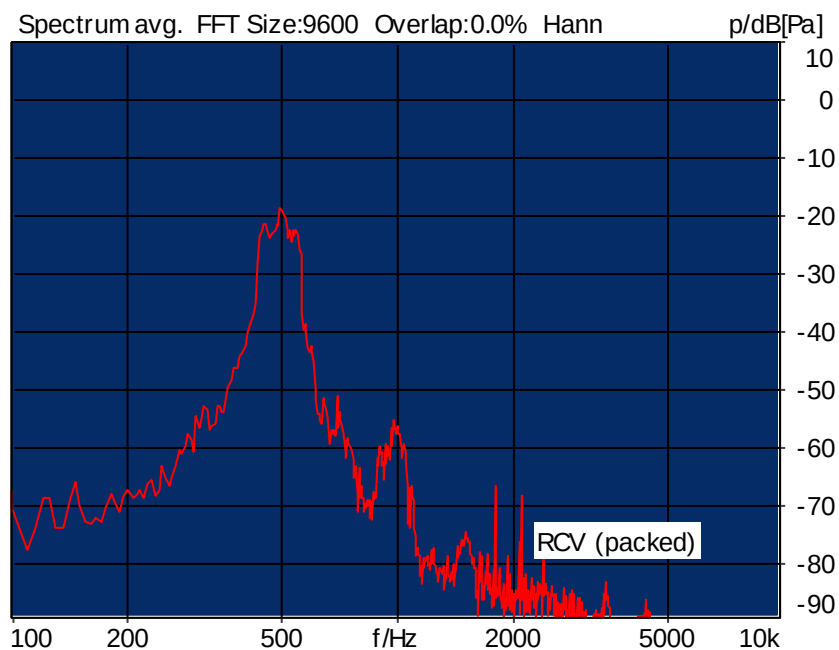
2026-03-04 上午 05:06 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 28.15 dB (3.91%) Ok

Ok

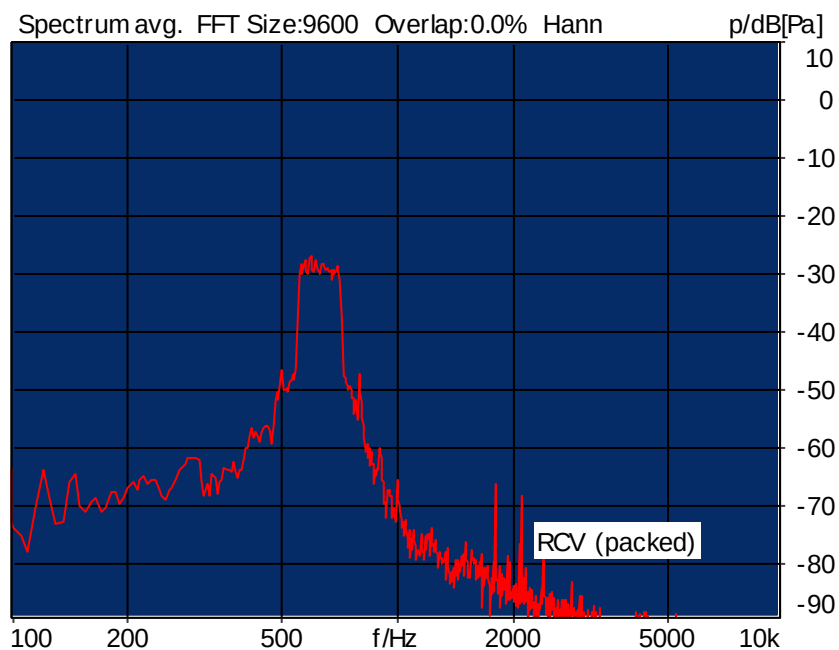
2026-03-04 上午 05:06 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 24.26 dB (6.13%) Ok

Ok

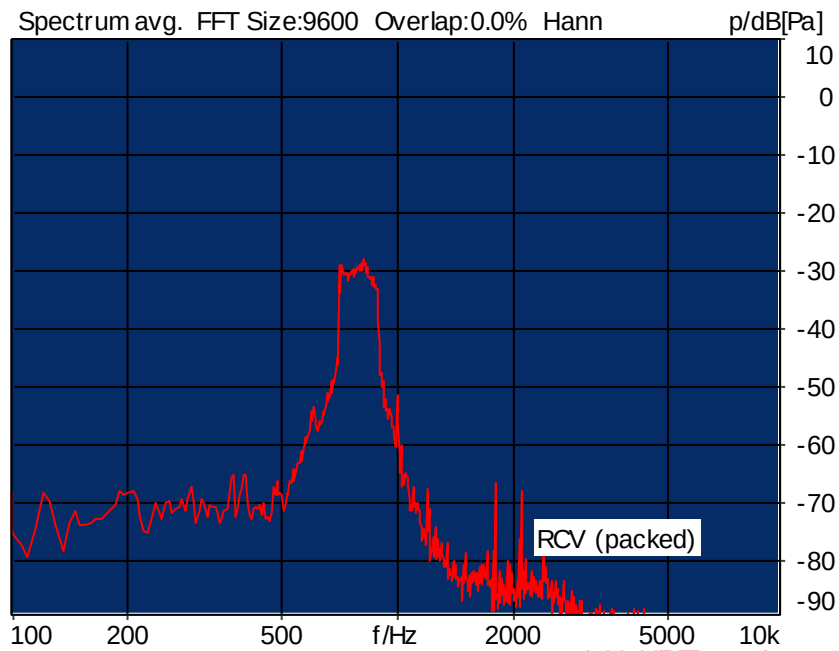
2026-03-04 上午 05:07 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 25.37 dB (5.39%) Ok

Ok

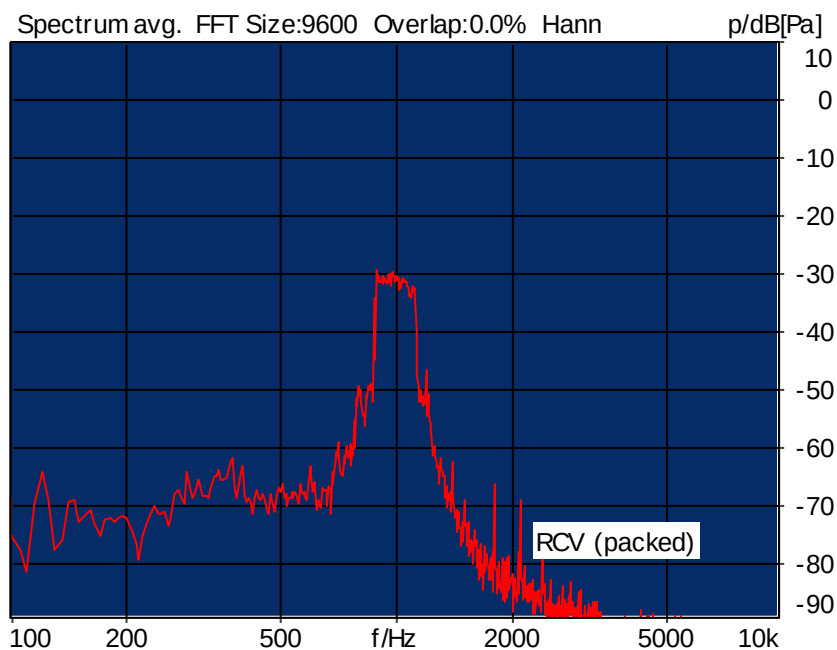
2026-03-04 上午 05:07 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 22.14 dB (7.82%) Ok

Ok

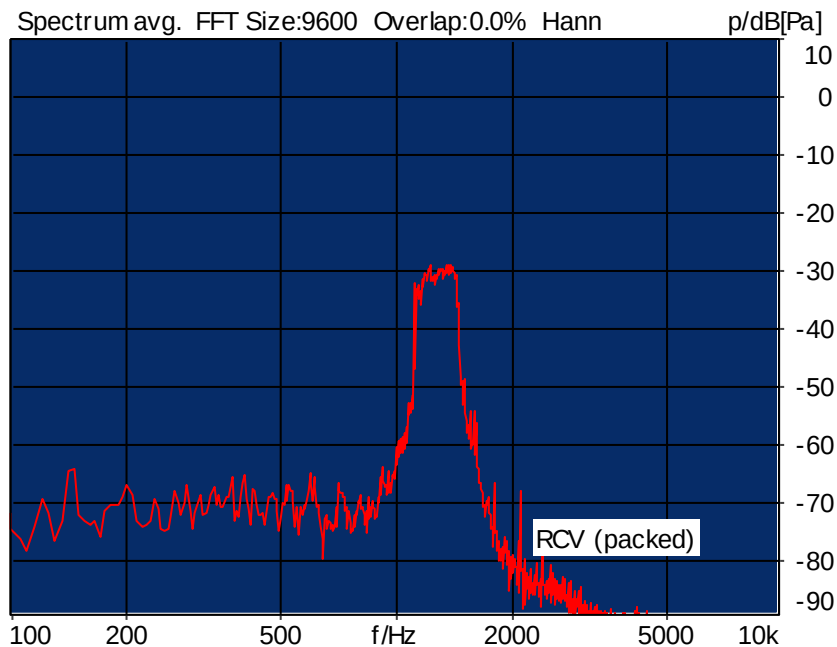
2026-03-04 上午 05:08 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 22.86 dB (7.19%) Ok

Ok

2026-03-04 上午 05:08 ACQUA 6.2.210

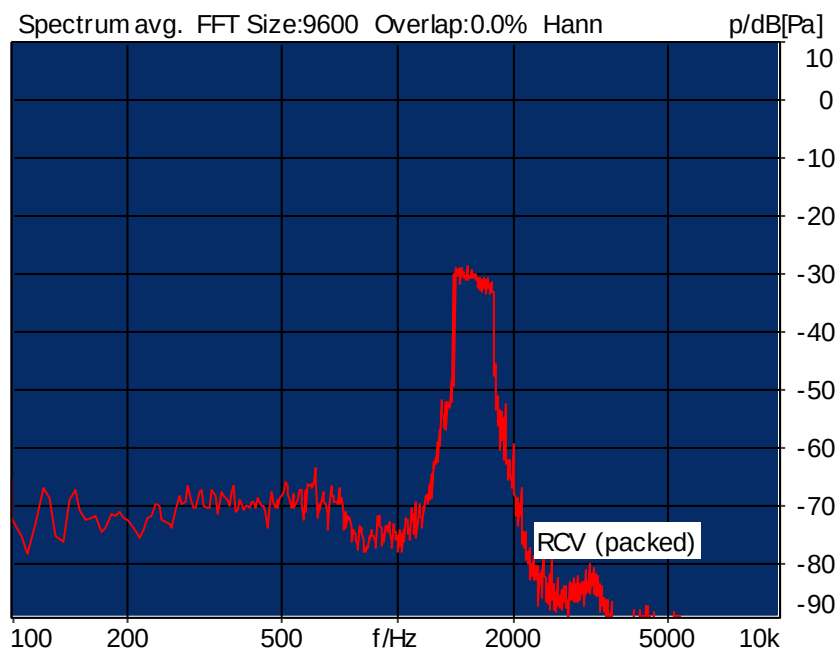
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 25.47 dB (5.33%) Ok

Ok

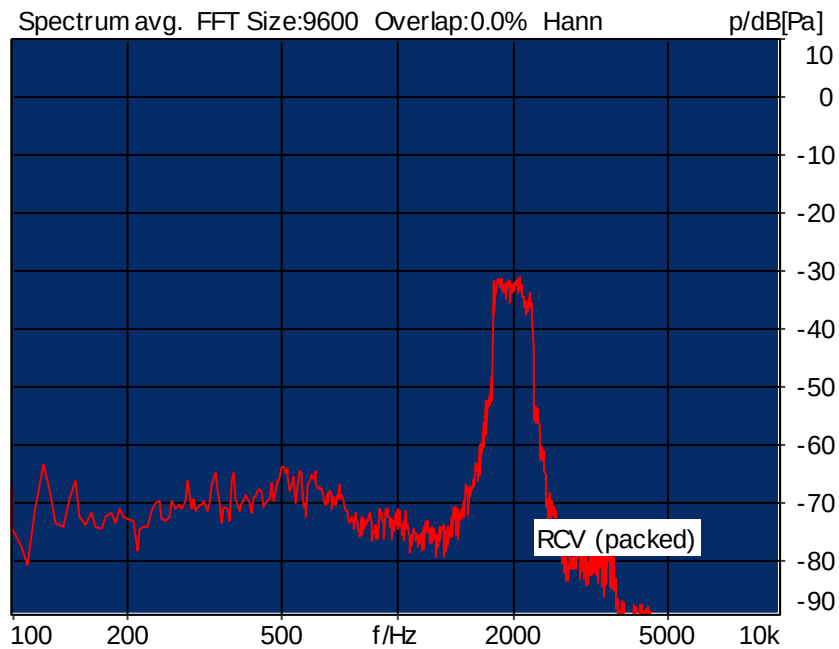
2026-03-04 上午 05:09 ACQUA 6.2.210

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 2000 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 24.39 dB (6.04%) Ok

Ok

2026-03-04 上午 05:09 ACQUA 6.2.210

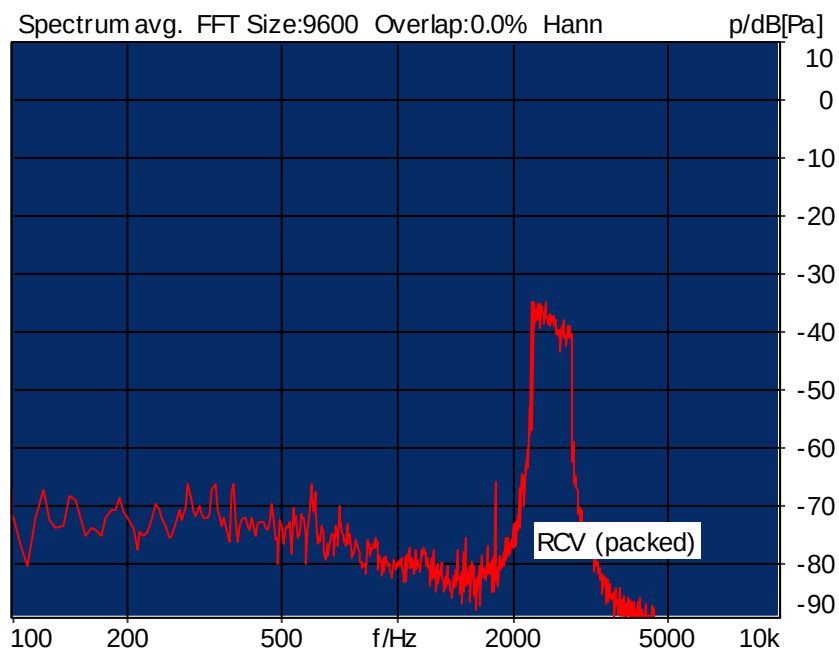
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 26.74 dB (4.60%) Ok

Ok

2026-03-04 上午 05:10 ACQUA 6.2.210

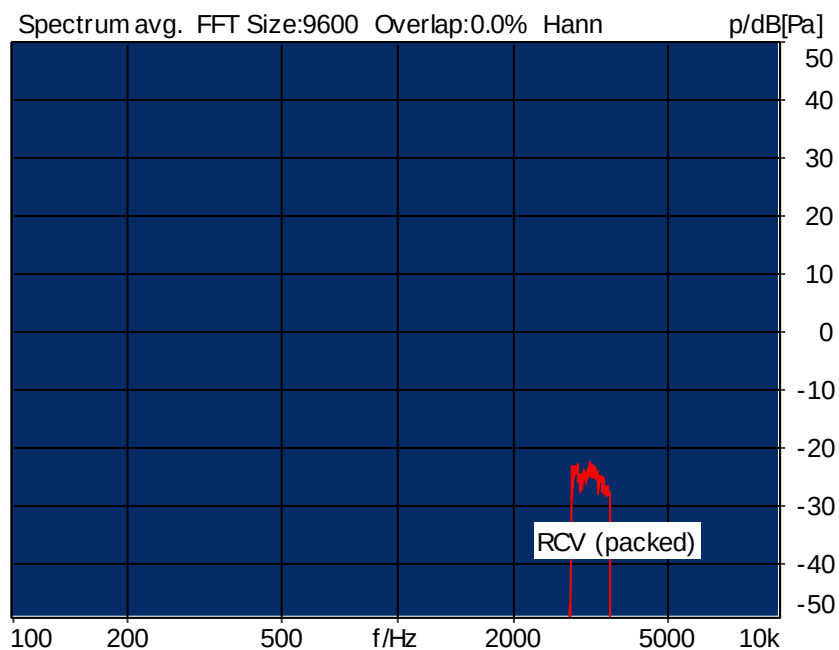
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 45.15 dB (0.55%) Ok

Ok

2026-03-04 上午 05:10 ACQUA 6.2.210

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range

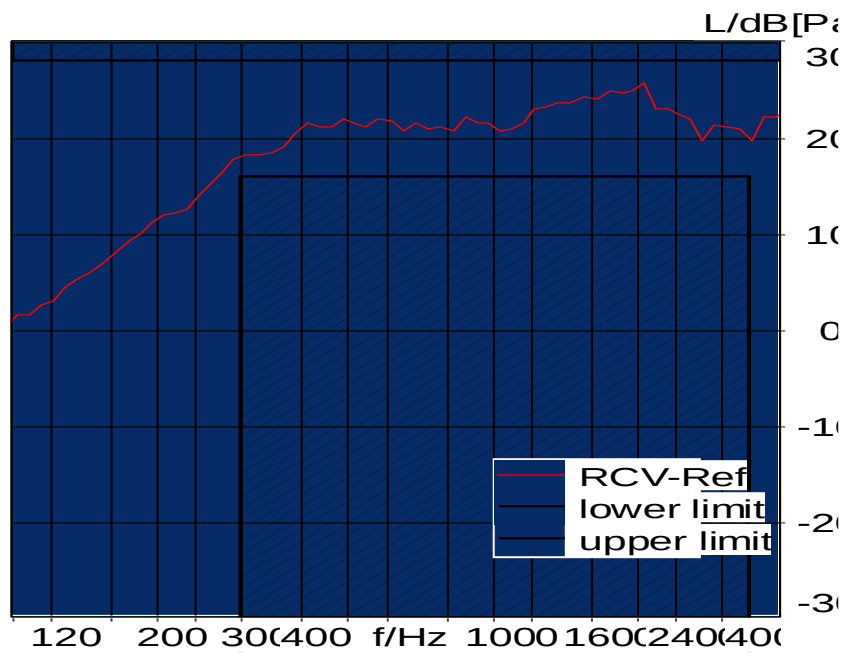
Region	Frequency	SDNR
1	400Hz	27.70 dB
2	500Hz	28.15 dB
3	630Hz	24.26 dB
4	800Hz	25.37 dB
5	1000Hz	22.14 dB
6	1250Hz	22.86 dB
7	1600Hz	25.47 dB
8	2000Hz	24.39 dB
9	2500Hz	26.74 dB
10	3150Hz	45.15 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 22.14dB at 1000Hz.

2026-03-04 上午 05:11 ACQUA

5.3 Frequency Response 8N DF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Absolute minimal distance

2.20 dB at 2057.5 Hz Ok

Ok

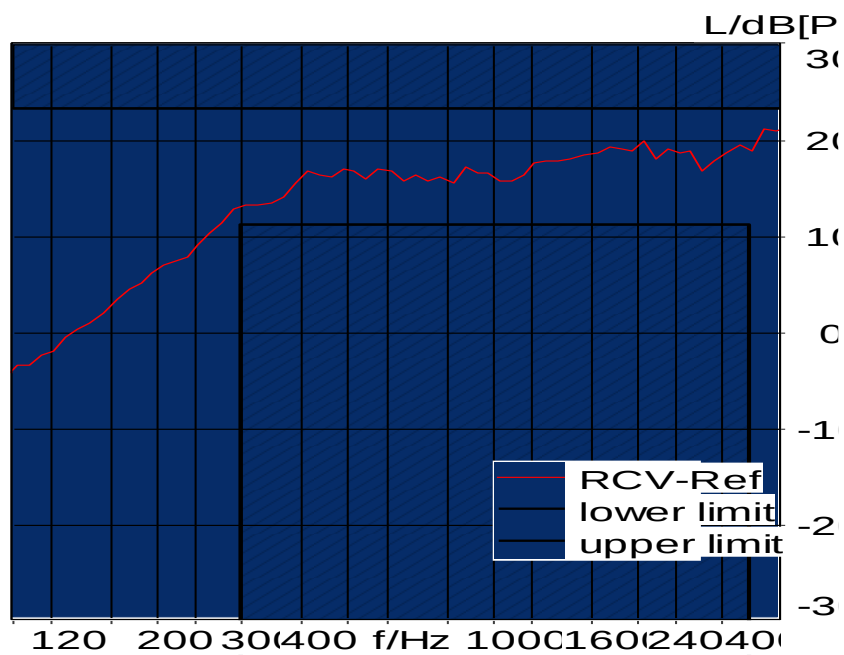
2026-03-04 上午 05:05 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Absolute minimal distance

2.08 dB at 3657.5 Hz Ok

Ok

2026-03-04 上午 05:11 ACQUA 6.2.210

Limits

lower
Fit into tolerance

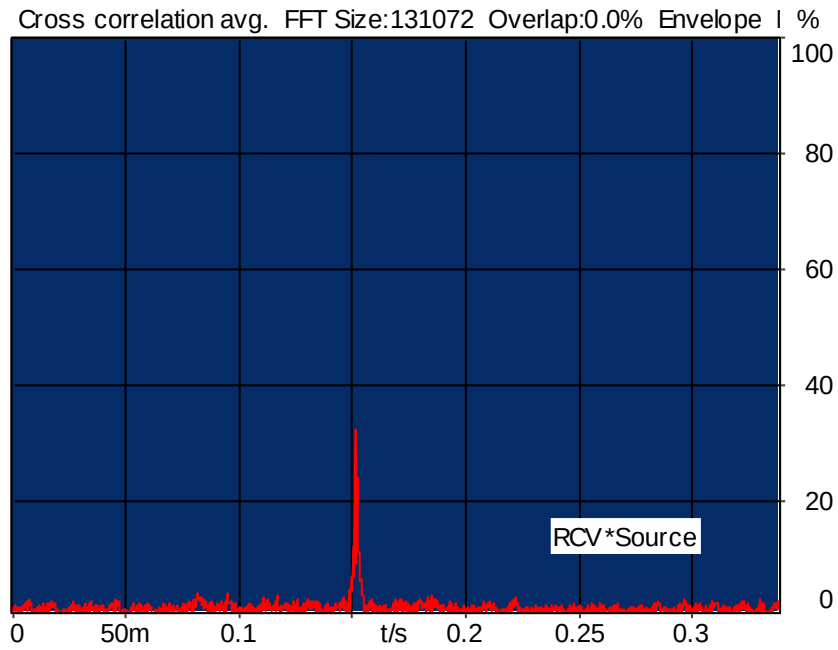
#2 NR n7 EVS WB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	152.0
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.49
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.49
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.92
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.57
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.25
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.96
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.44
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.63
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.35
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.05
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.51
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.17
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.96
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.41
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.30
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.42
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.17
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.01
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.57
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.22
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.78
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.65
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.98
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.00
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.75
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.18
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.07
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.62
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.94
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.43
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.42
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.07
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	2.32
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 3445.5 Hz	1.99



Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

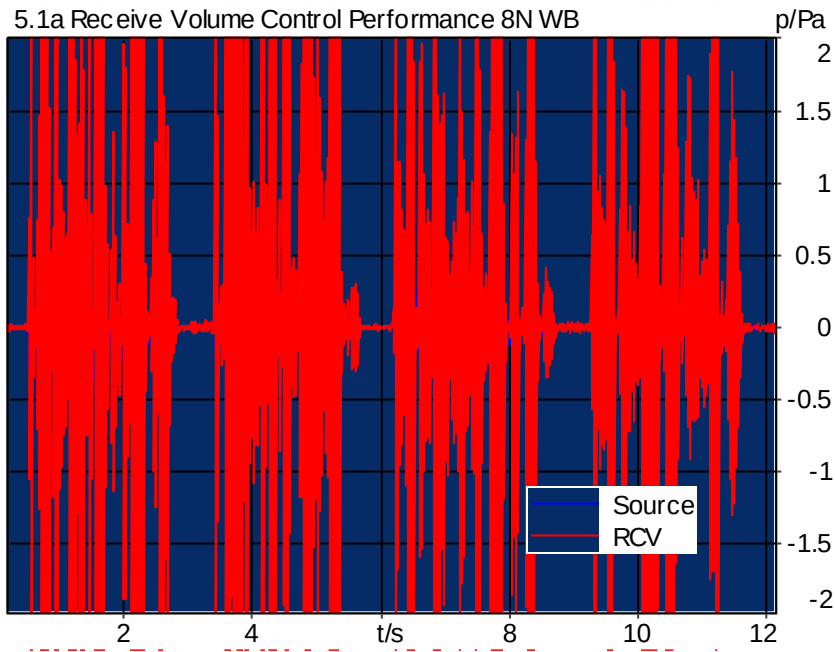


Channel	Delay	Correlation
RCV*Source	152.0 ms	32.26 %

2025-12-24 上午 06:37 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Channel	Speech level	Activity	
RCV	90.49 dB[SPL]	80.42%	Ok

Ok

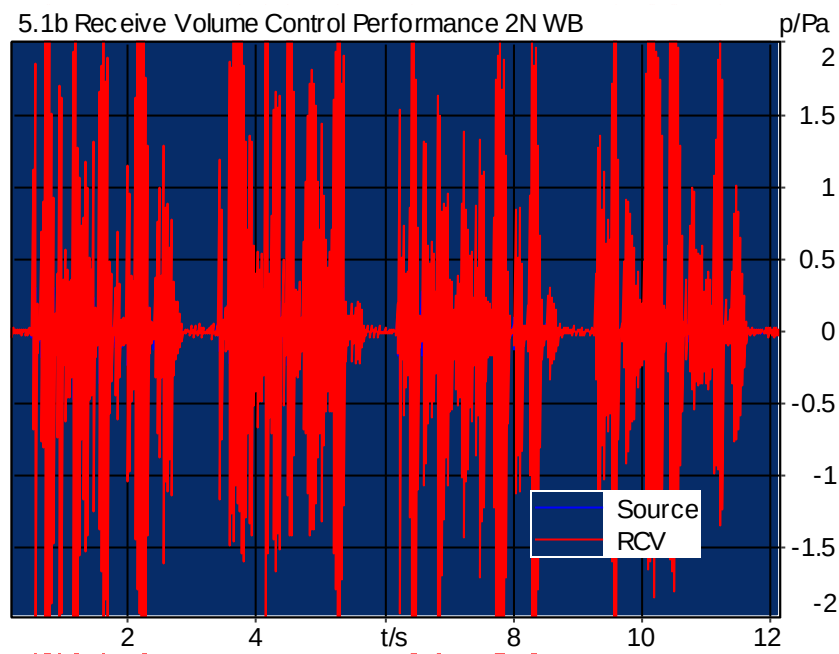
2025-12-24 上午 06:52 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Channel	Speech level	Activity	
RCV	85.49 dB[SPL]	80.47%	Ok

Ok

2025-12-24 上午 06:38 ACQUA 6.1.110

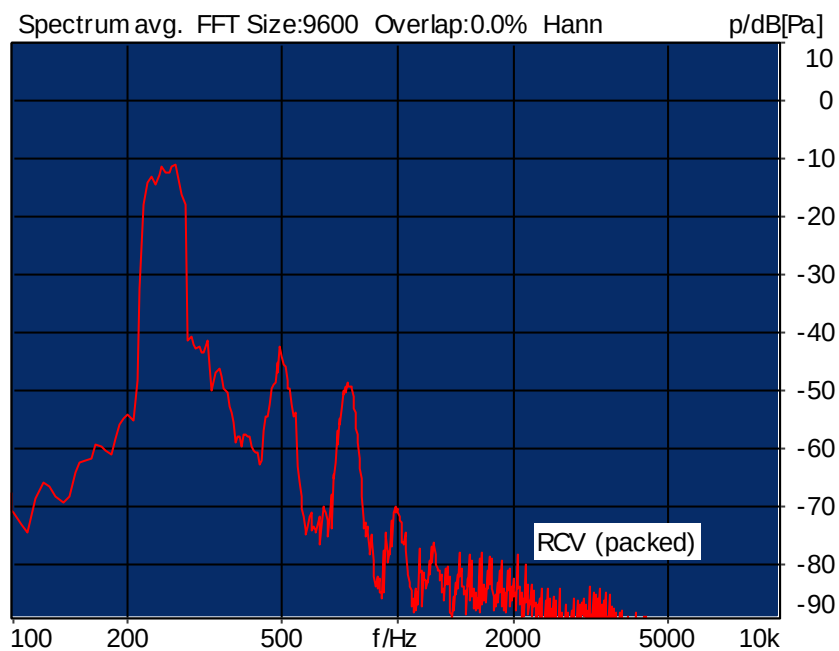
Limits

lower
76.00 dB[SPL]



5.2 RCV Distortion and Noise - 250 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 32.92 dB (2.26%) Ok

Ok

2025-12-24 上午 06:52 ACQUA 6.1.110

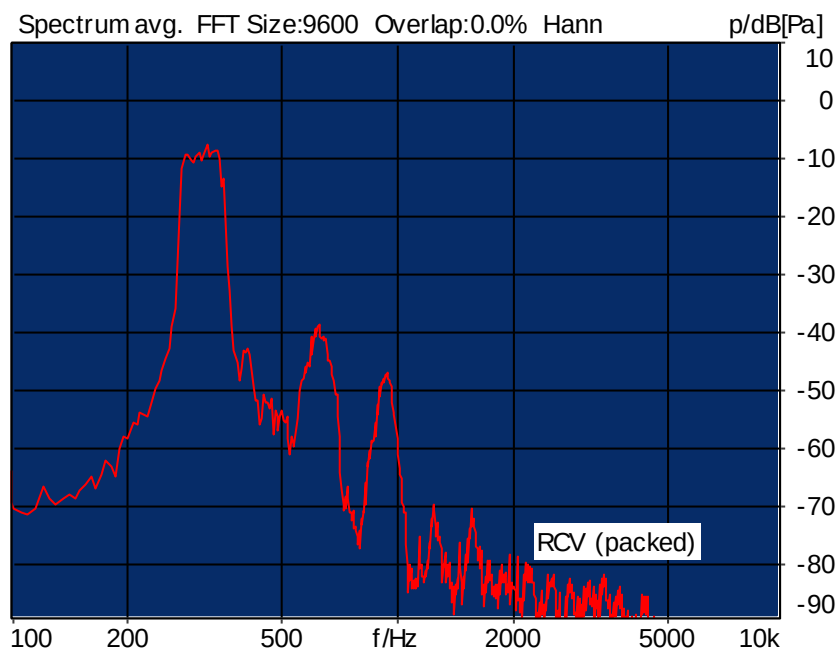
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 31.57 dB (2.64%) Ok

Ok

2025-12-24 上午 06:53 ACQUA 6.1.110

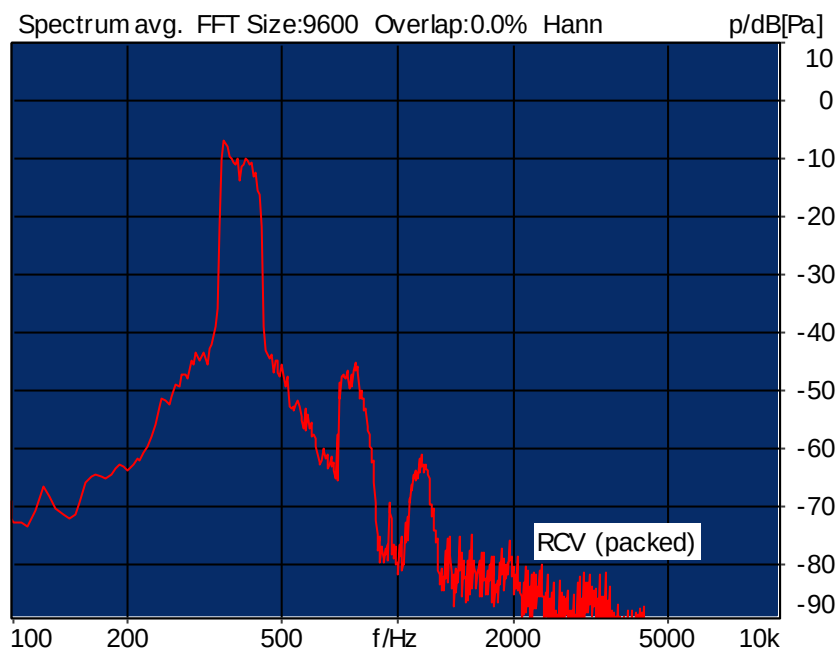
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.25 dB (1.73%) Ok

Ok

2025-12-24 上午 06:54 ACQUA 6.1.110

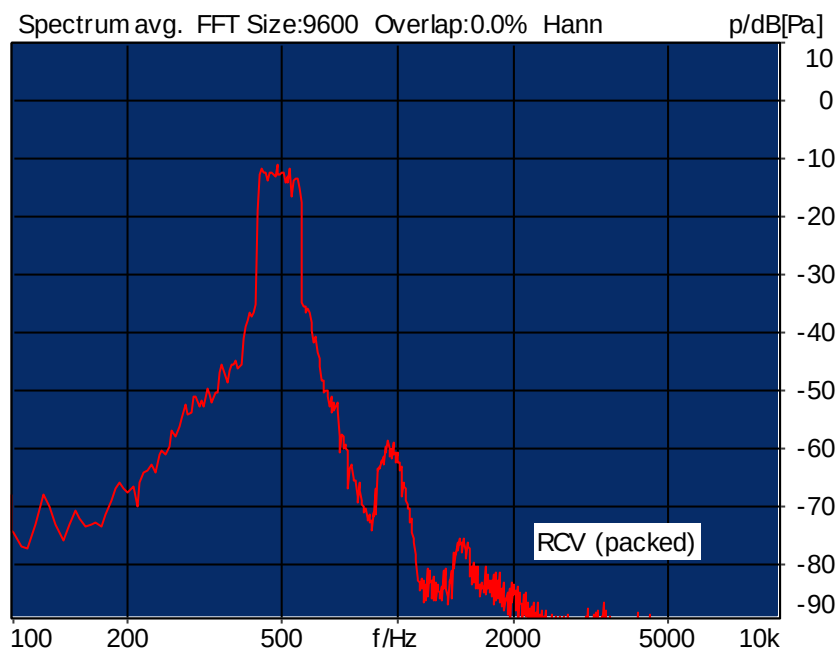
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 33.96 dB (2.00%) Ok

Ok

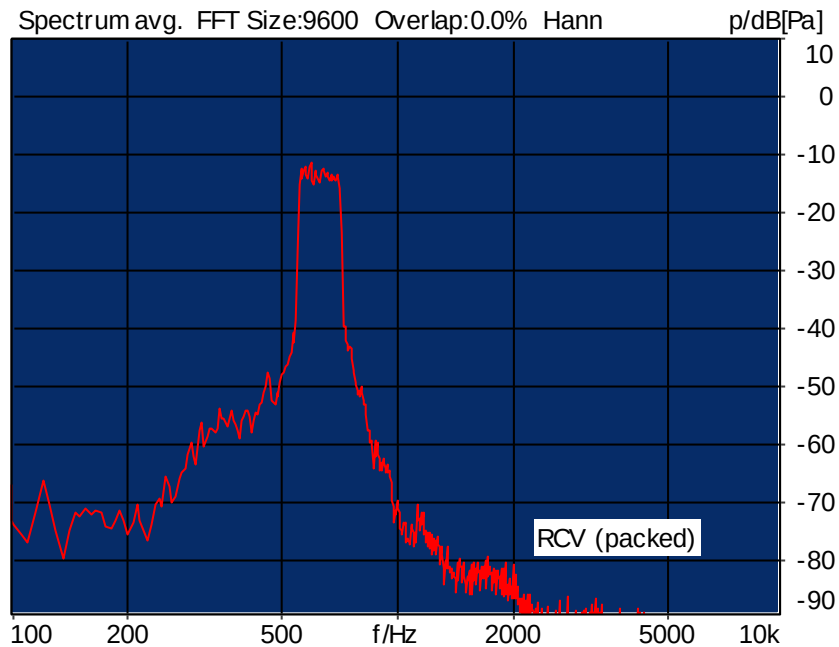
2025-12-24 上午 06:54 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 630 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 36.44 dB (1.51%) Ok

Ok

2025-12-24 上午 06:55 ACQUA 6.1.110

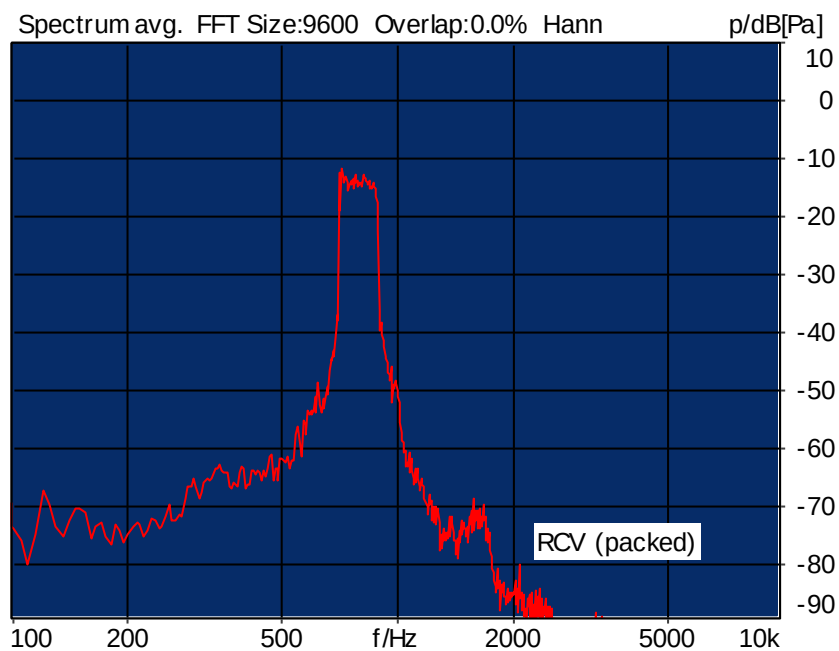
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.63 dB (1.65%) Ok

Ok

2025-12-24 上午 06:55 ACQUA 6.1.110

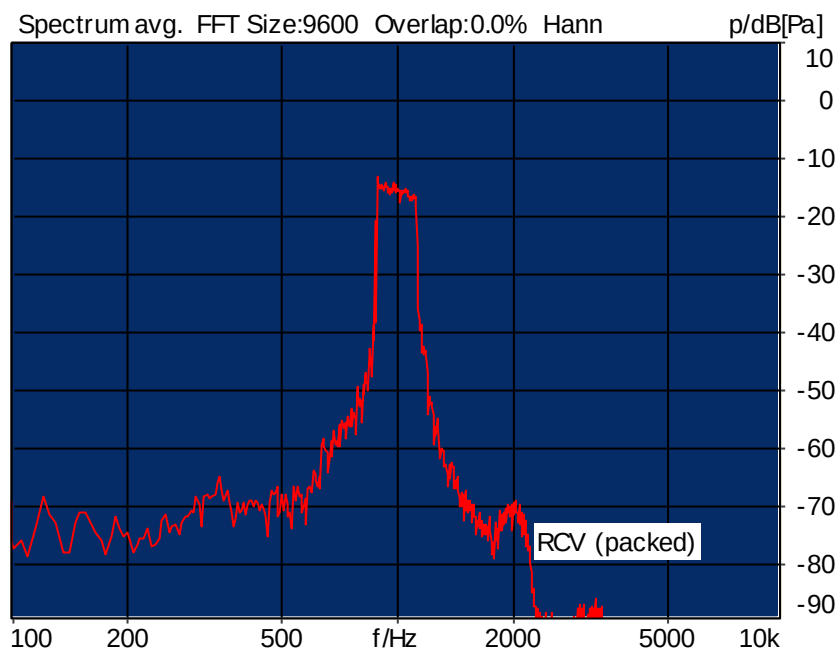
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 33.35 dB (2.15%) Ok

Ok

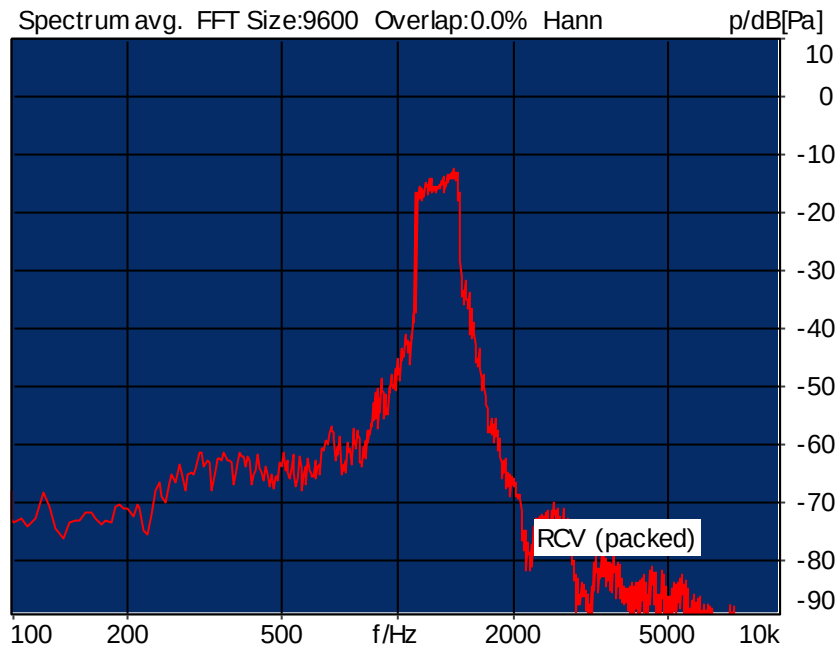
2025-12-24 上午 06:56 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1250 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 22.05 dB (7.90%) Ok

Ok

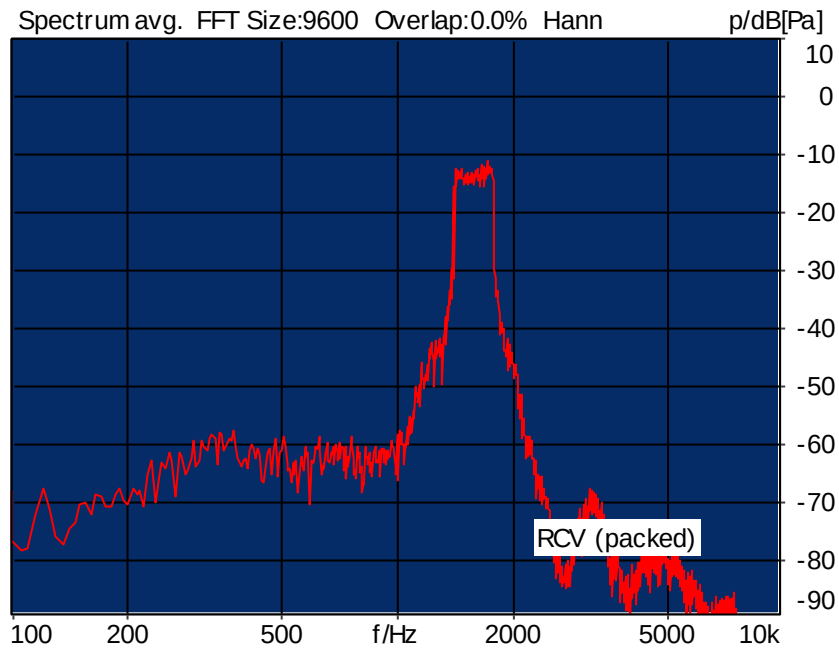
2025-12-24 上午 06:56 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1600 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 26.51 dB (4.72%) Ok

Ok

2025-12-24 上午 06:57 ACQUA 6.1.110

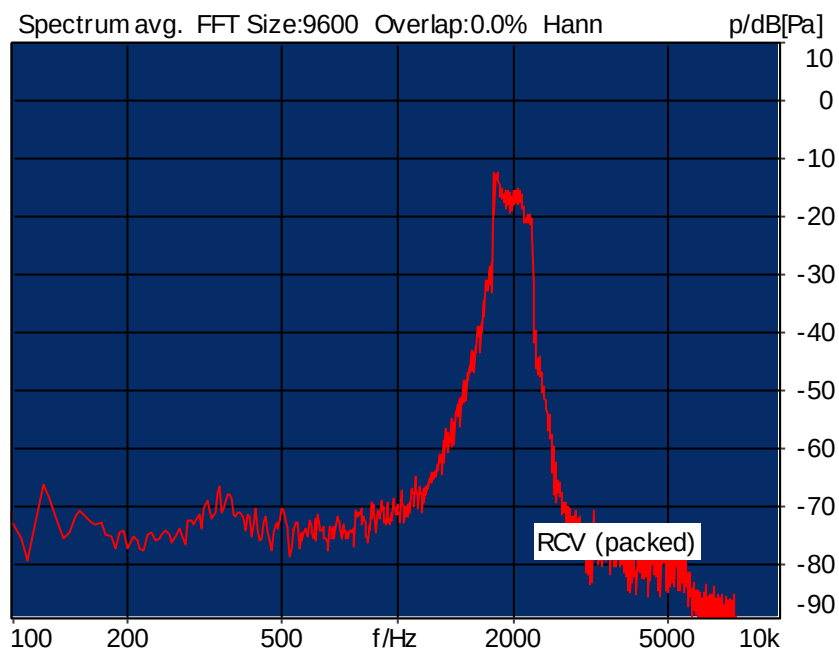
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 21.17 dB (8.74%) Ok

Ok

2025-12-24 上午 06:57 ACQUA 6.1.110

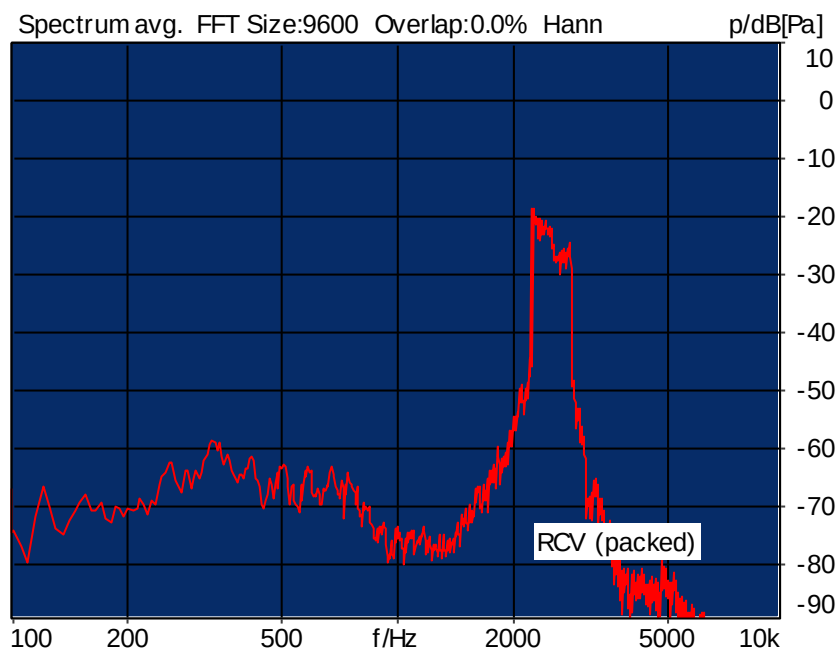
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.96 dB (3.56%) Ok

Ok

2025-12-24 上午 06:58 ACQUA 6.1.110

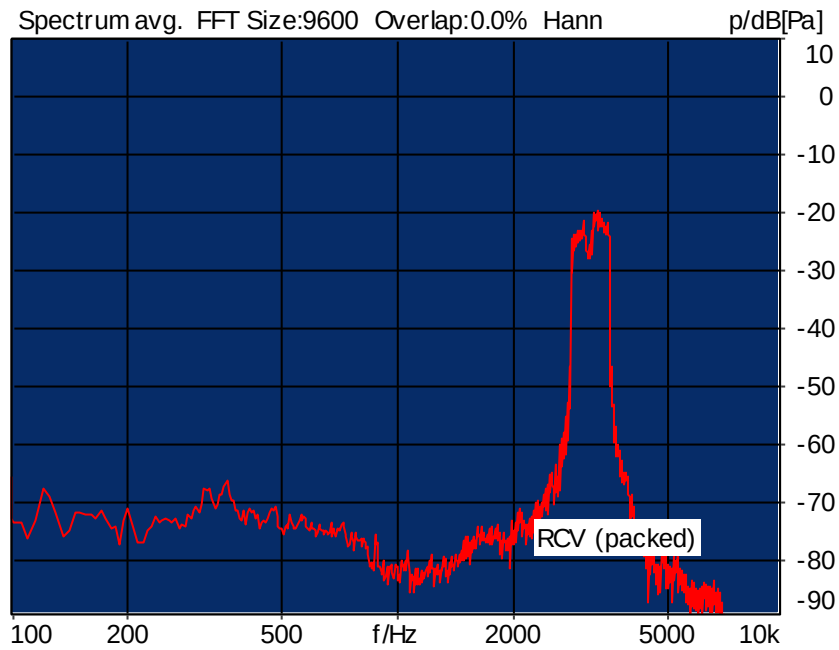
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.41 dB (1.70%) Ok

Ok

2025-12-24 上午 06:58 ACQUA 6.1.110

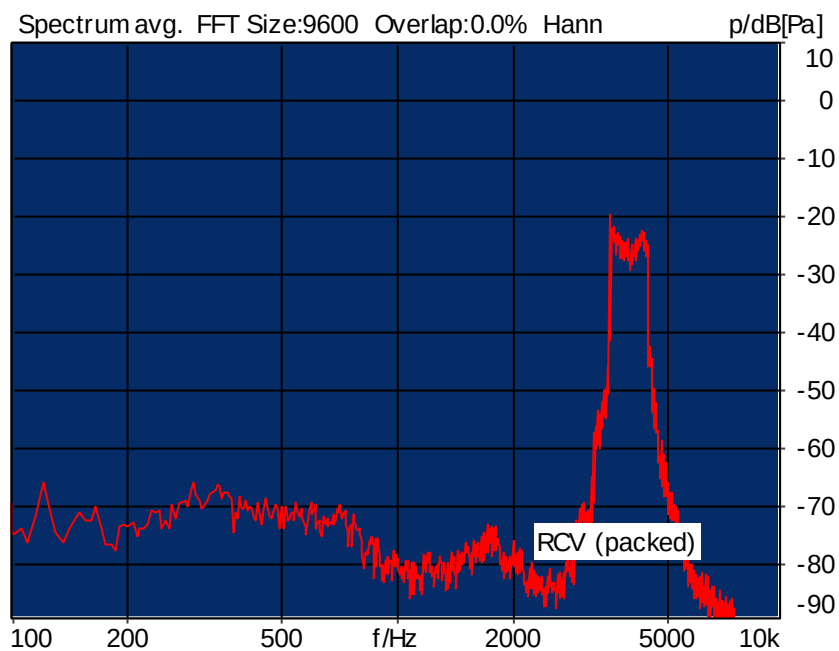
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 4000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 27.30 dB (4.31%) Ok

Ok

2025-12-24 上午 06:59 ACQUA 6.1.110

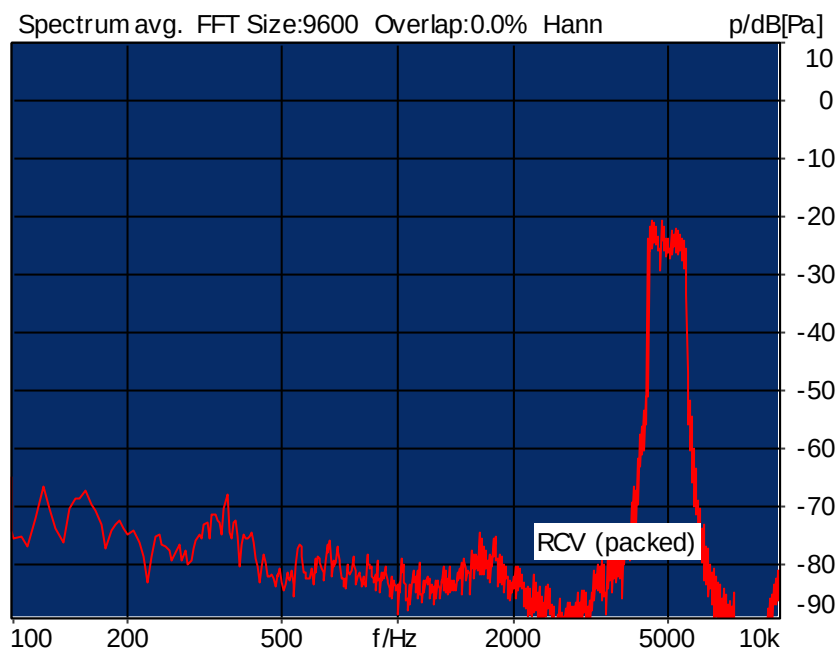
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 5000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.42 dB (1.70%) Ok

Ok

2025-12-24 上午 07:00 ACQUA 6.1.110

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range

Region	Frequency	SDNR
1	250Hz	32.92 dB
2	315Hz	31.57 dB
3	400Hz	35.25 dB
4	500Hz	33.96 dB
5	630Hz	36.44 dB
6	800Hz	35.63 dB
7	1000Hz	33.35 dB
8	1250Hz	22.05 dB
9	1600Hz	26.51 dB
10	2000Hz	21.17 dB
11	2500Hz	28.96 dB
12	3150Hz	35.41 dB
13	4000Hz	27.30 dB
14	5000Hz	35.42 dB

All SDNRs were greater than 20.0 dB, requirement was met.

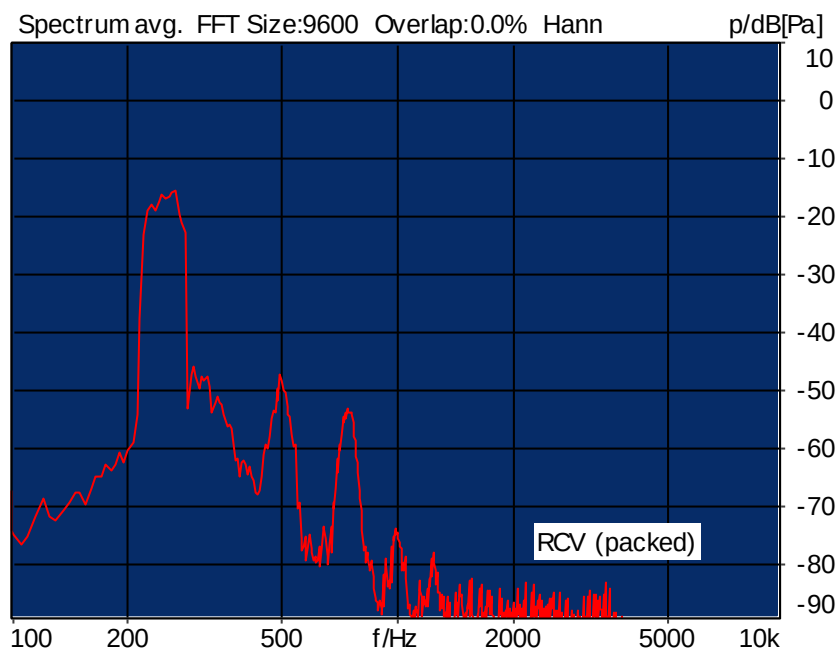
Smallest SDNR was 21.17dB at 2000Hz.

2025-12-24 上午 07:00 ACQUA



5.2 RCV Distortion and Noise - 250 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 33.01 dB (2.24%) Ok

Ok

2025-12-24 上午 06:38 ACQUA 6.1.110

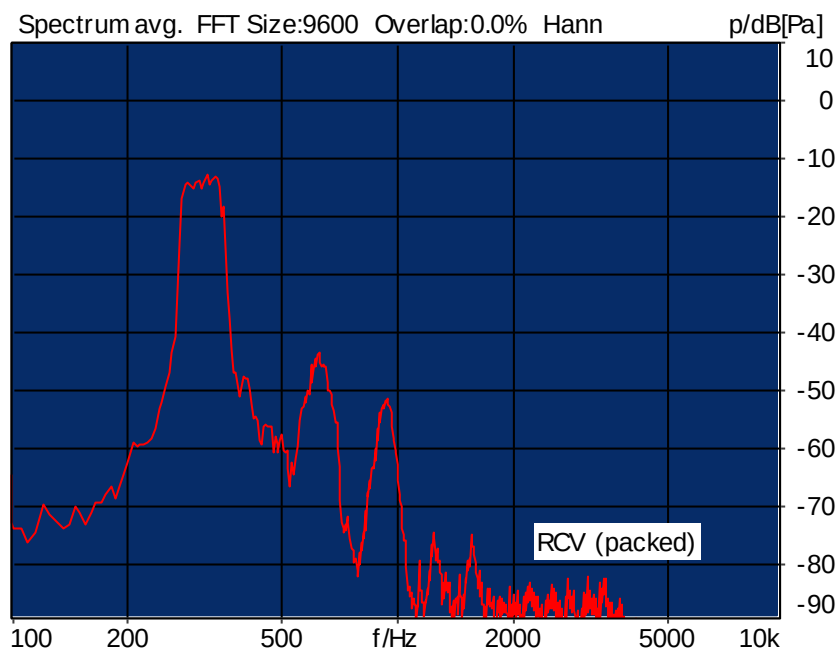
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 31.57 dB (2.64%) Ok

Ok

2025-12-24 上午 06:39 ACQUA 6.1.110

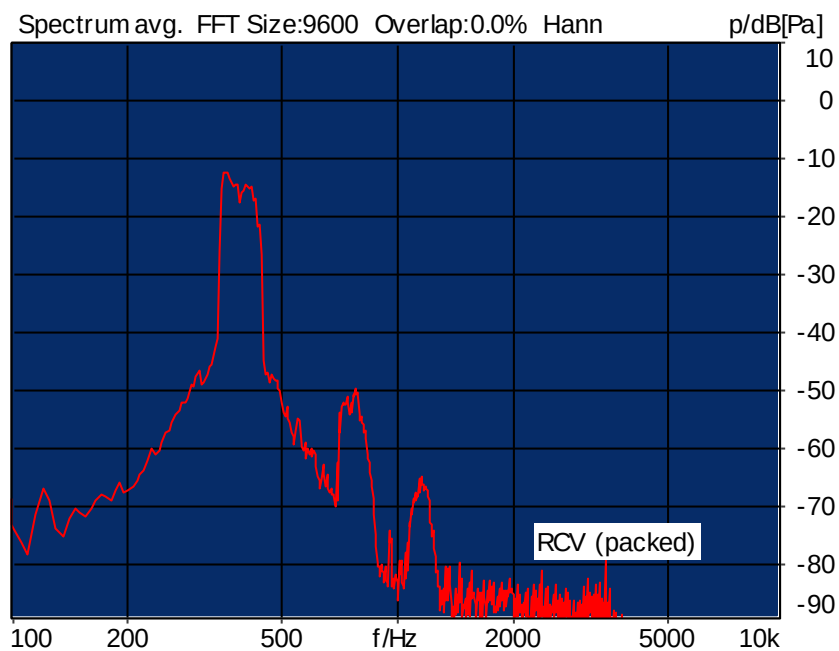
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.22 dB (1.73%) Ok

Ok

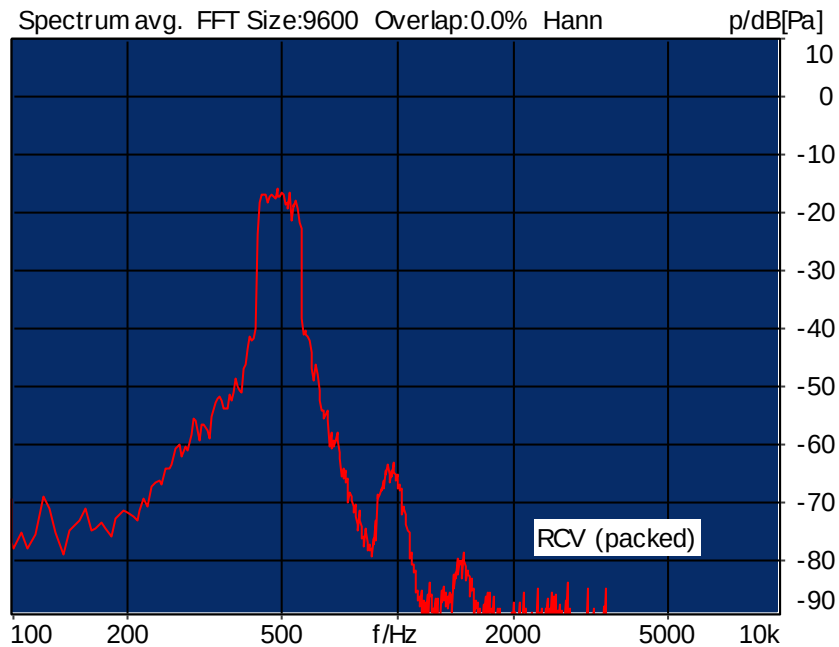
2025-12-24 上午 06:39 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 34.78 dB (1.82%) Ok

Ok

2025-12-24 上午 06:40 ACQUA 6.1.110

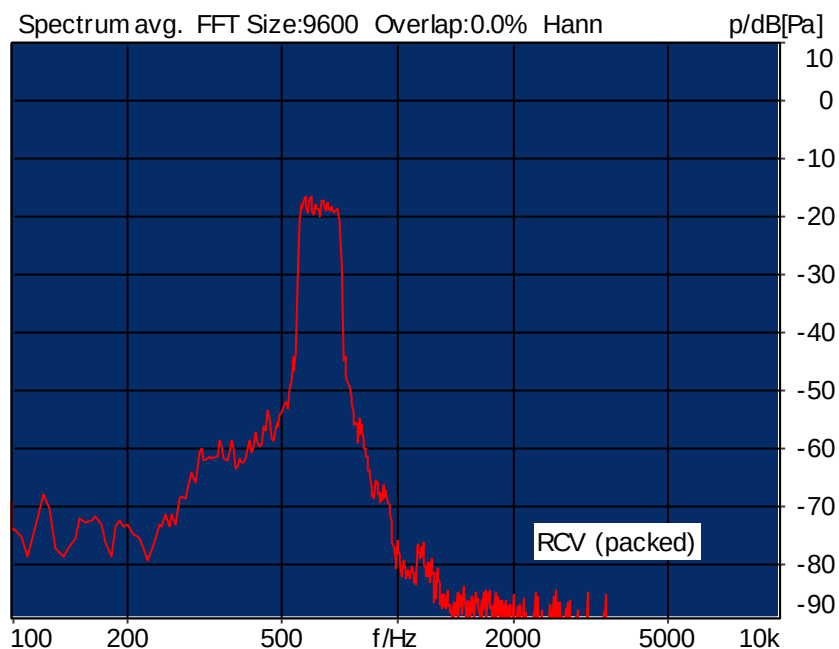
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 37.65 dB (1.31%) Ok

Ok

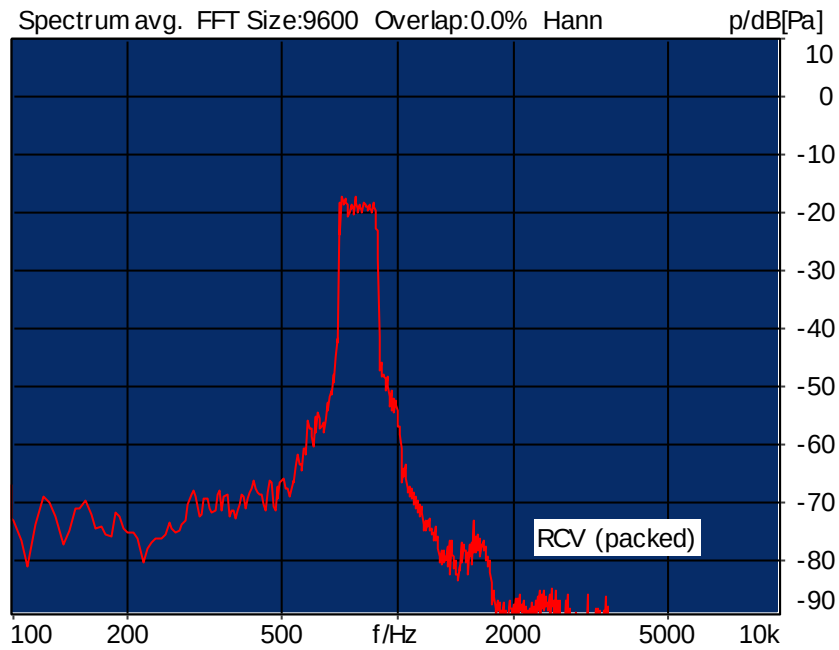
2025-12-24 上午 06:41 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 800 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 34.98 dB (1.78%) Ok

Ok

2025-12-24 上午 06:41 ACQUA 6.1.110

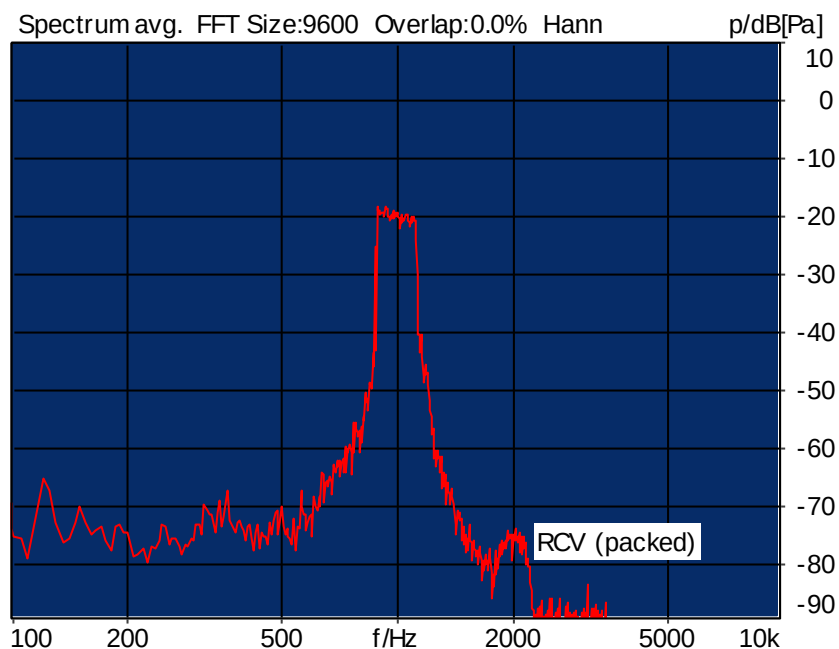
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 32.00 dB (2.51%) Ok

Ok

2025-12-24 上午 06:42 ACQUA 6.1.110

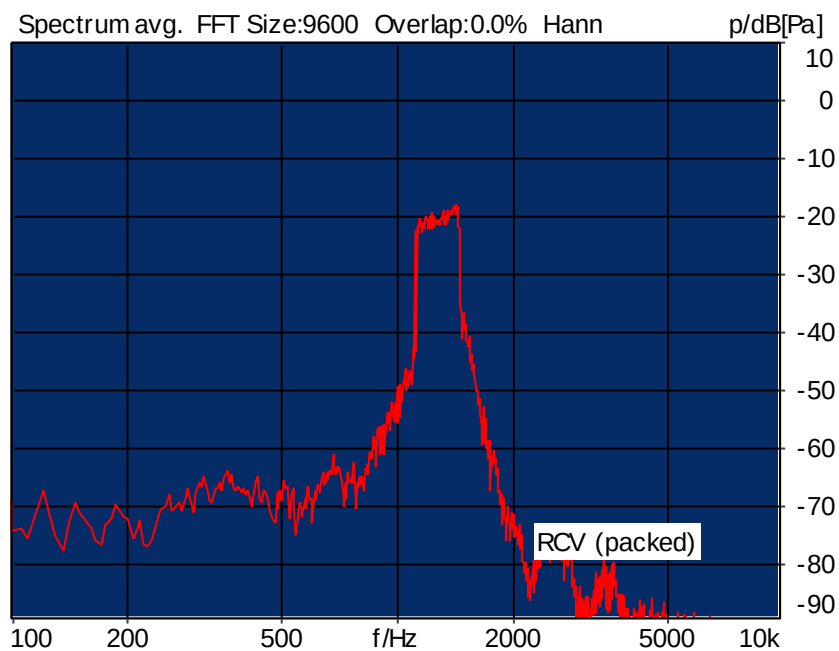
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1250 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 22.75 dB (7.28%) Ok

Ok

2025-12-24 上午 06:42 ACQUA 6.1.110

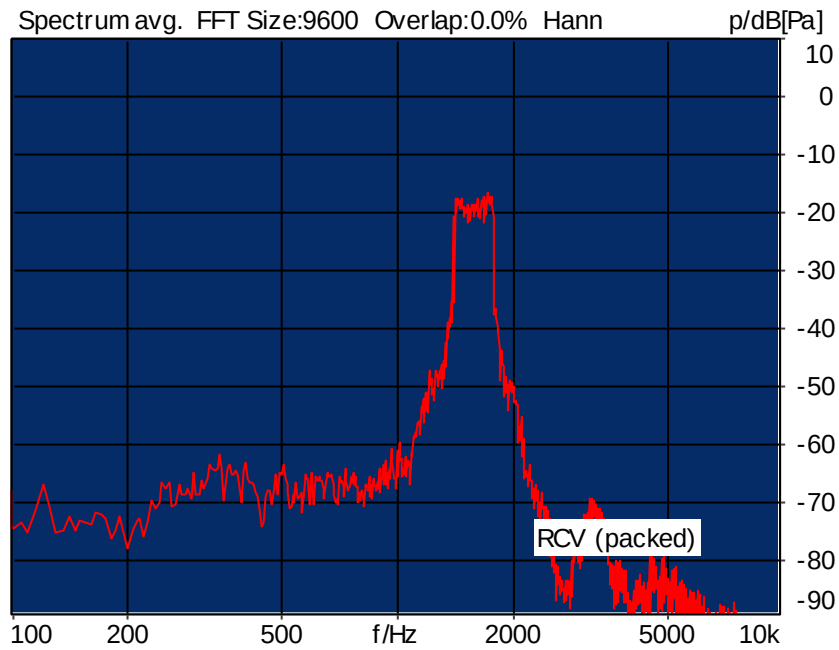
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 26.18 dB (4.91%) Ok

Ok

2025-12-24 上午 06:43 ACQUA 6.1.110

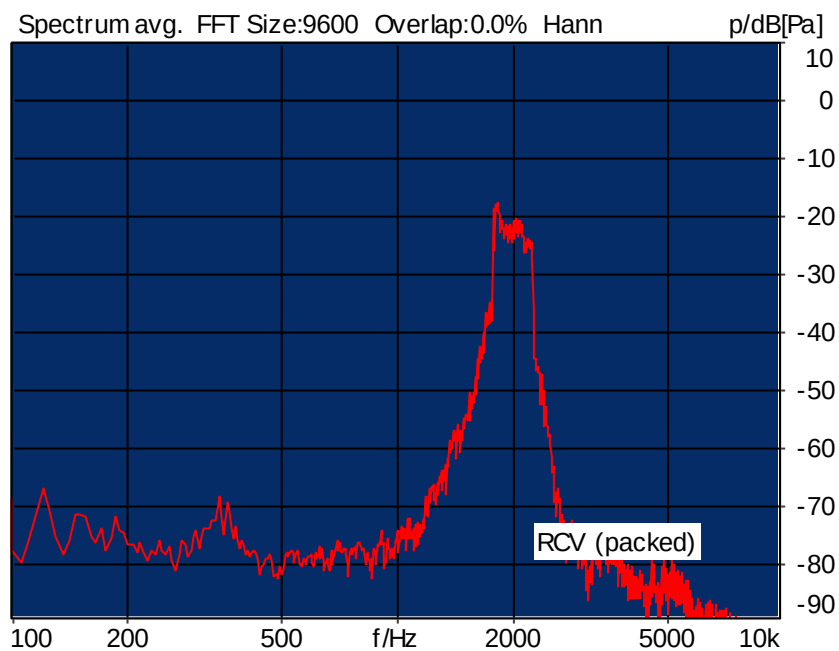
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 21.07 dB (8.84%) Ok

Ok

2025-12-24 上午 06:43 ACQUA 6.1.110

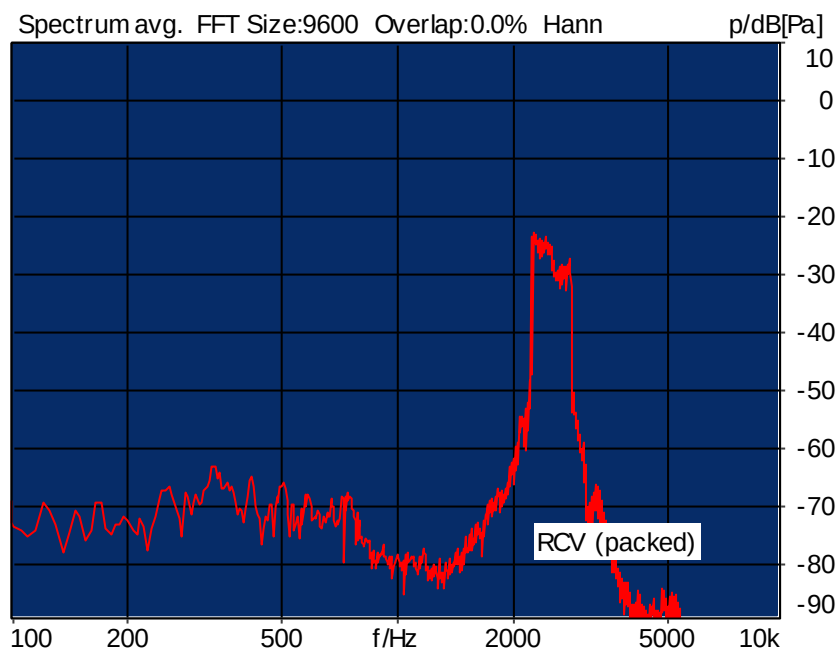
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 29.62 dB (3.30%) Ok

Ok

2025-12-24 上午 06:44 ACQUA 6.1.110

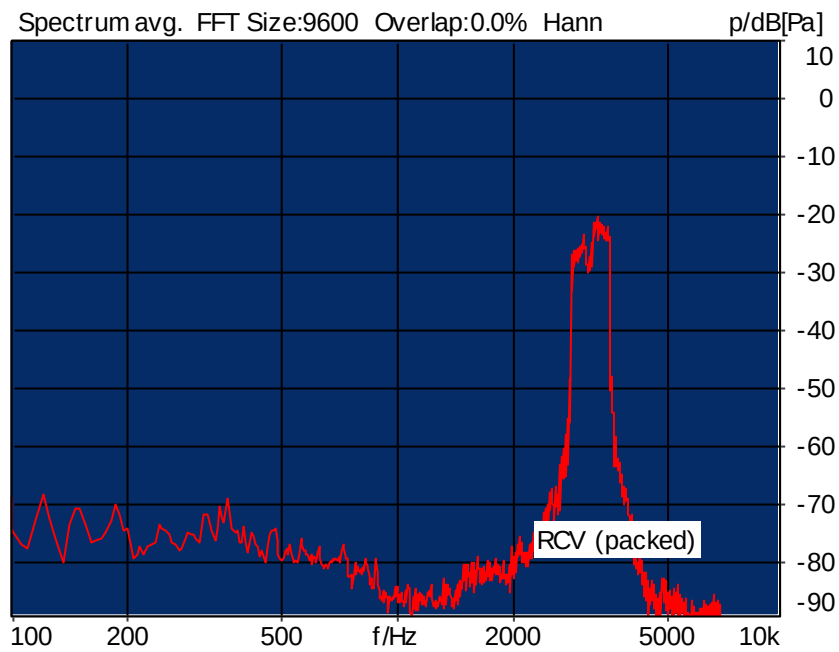
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.94 dB (1.60%) Ok

Ok

2025-12-24 上午 06:44 ACQUA 6.1.110

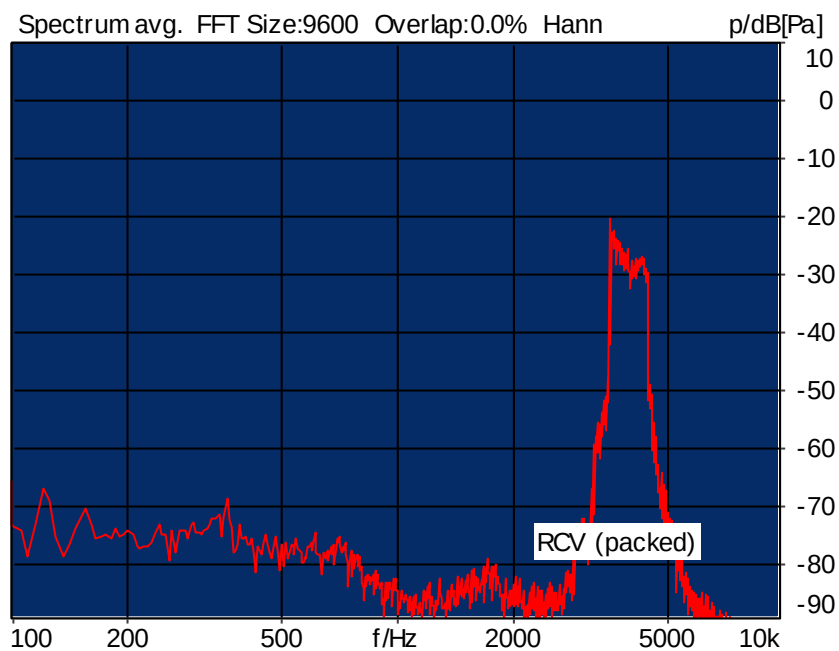
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 4000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 29.43 dB (3.38%) Ok

Ok

2025-12-24 上午 06:45 ACQUA 6.1.110

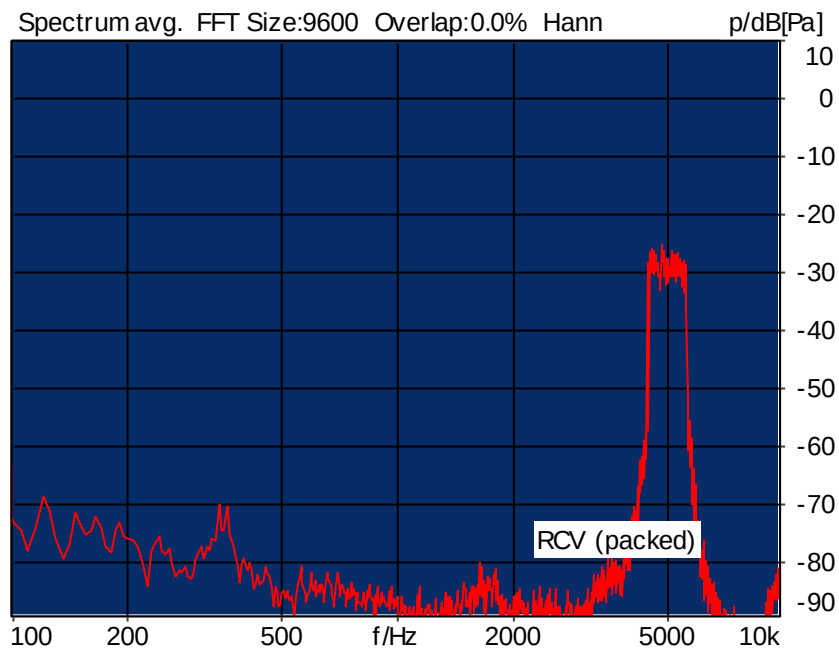
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 5000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.42 dB (1.69%) Ok

Ok

2025-12-24 上午 06:45 ACQUA 6.1.110

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range

Region	Frequency	SDNR
1	250Hz	33.01 dB
2	315Hz	31.57 dB
3	400Hz	35.22 dB
4	500Hz	34.78 dB
5	630Hz	37.65 dB
6	800Hz	34.98 dB
7	1000Hz	32.00 dB
8	1250Hz	22.75 dB
9	1600Hz	26.18 dB
10	2000Hz	21.07 dB
11	2500Hz	29.62 dB
12	3150Hz	35.94 dB
13	4000Hz	29.43 dB
14	5000Hz	35.42 dB

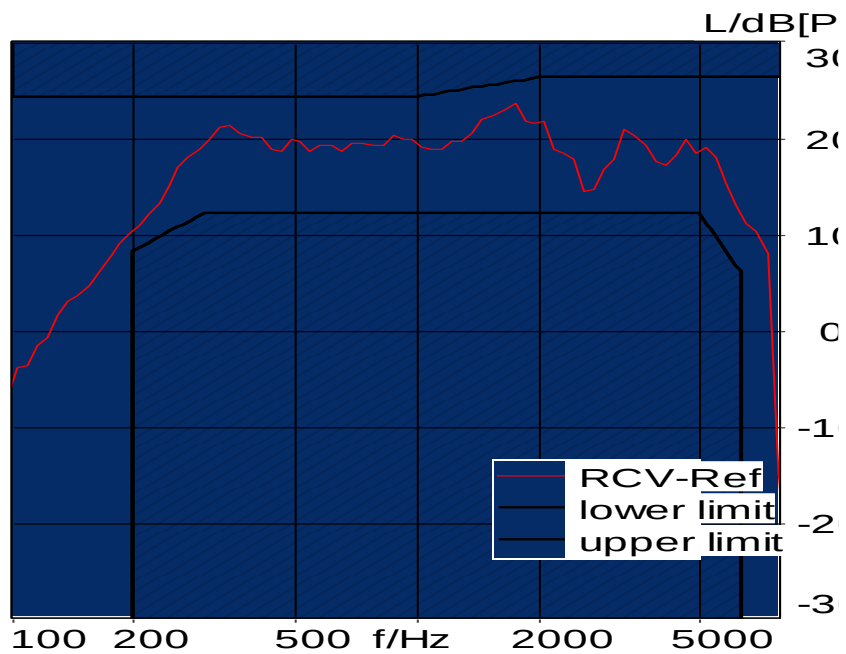
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.07dB at 2000Hz.

2025-12-24 上午 06:46 ACQUA

5.3 Frequency Response 8N DF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

2.32 dB at 1747.8 Hz Ok

Ok

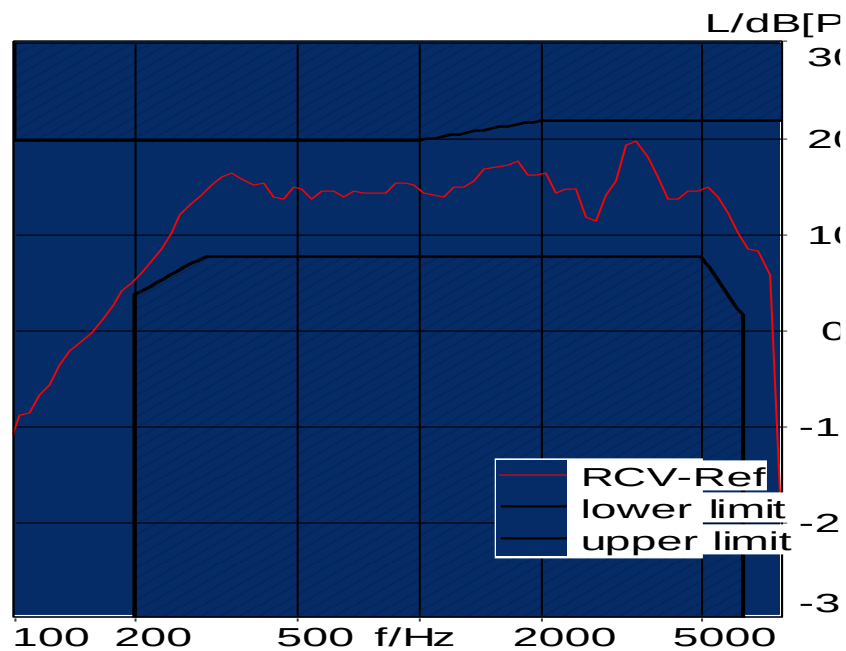
2025-12-24 上午 07:00 ACQUA 6.1.110

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

1.99 dB at 3445.5 Hz Ok

Ok

2025-12-24 上午 06:46 ACQUA 6.1.110

Limits

lower
Fit into tolerance



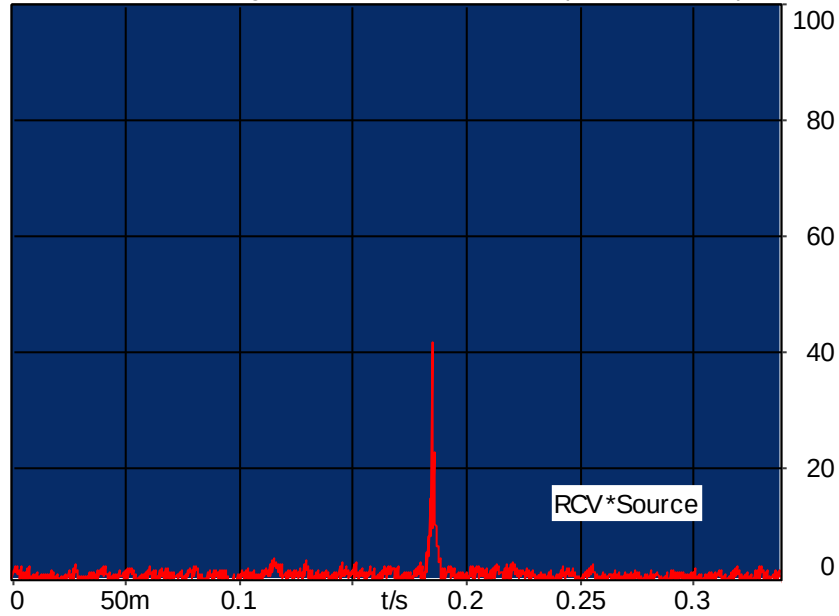
#3 WiFi 5GHz EVS WB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	185.9
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.41
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.41
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.35
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.05
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.88
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.94
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.50
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.80
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.59
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.85
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.87
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.19
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.64
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.88
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.79
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.79
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.19
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.33
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.83
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.16
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.20
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.80
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.18
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.91
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.95
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.51
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.67
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.36
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.67
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.94
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.70
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.67
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 2721.8 Hz	2.08
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 3245.6 Hz	2.19

Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %



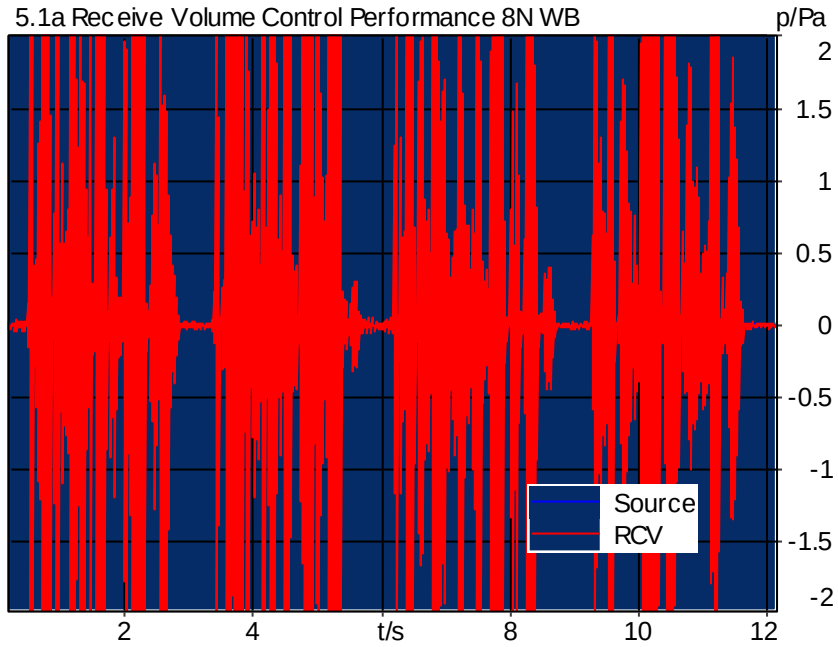
Channel	Delay	Correlation
RCV*Source	185.9 ms	41.70 %

2025-12-19 上午 06:32 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1a Receive Volume Control Performance 8N WB



Channel	Speech level	Activity	
RCV	90.41 dB[SPL]	80.73%	Ok

Ok

2025-12-19 上午 06:32 ACQUA 6.1.110

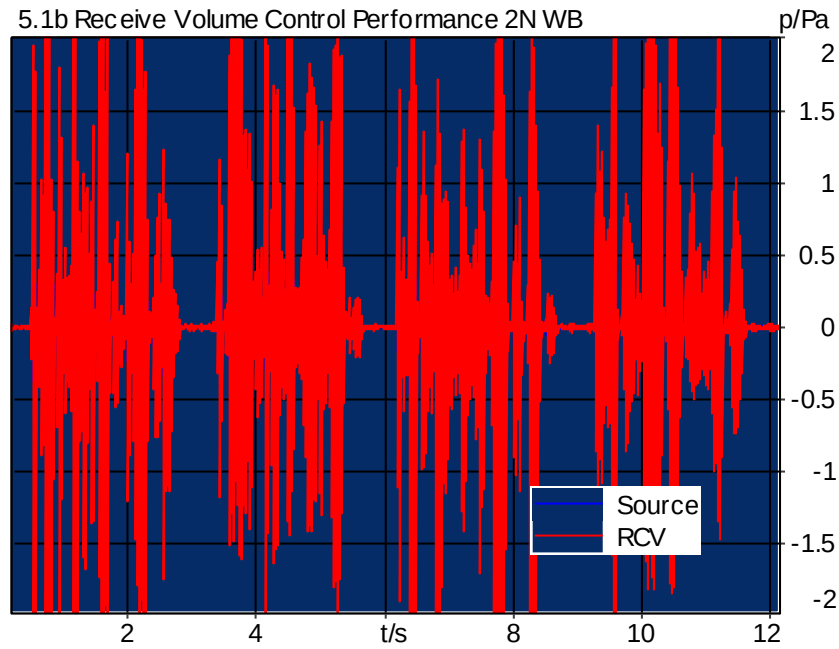
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1b Receive Volume Control Performance 2N WB



Channel	Speech level	Activity	
RCV	85.41 dB[SPL]	80.57%	Ok

Ok

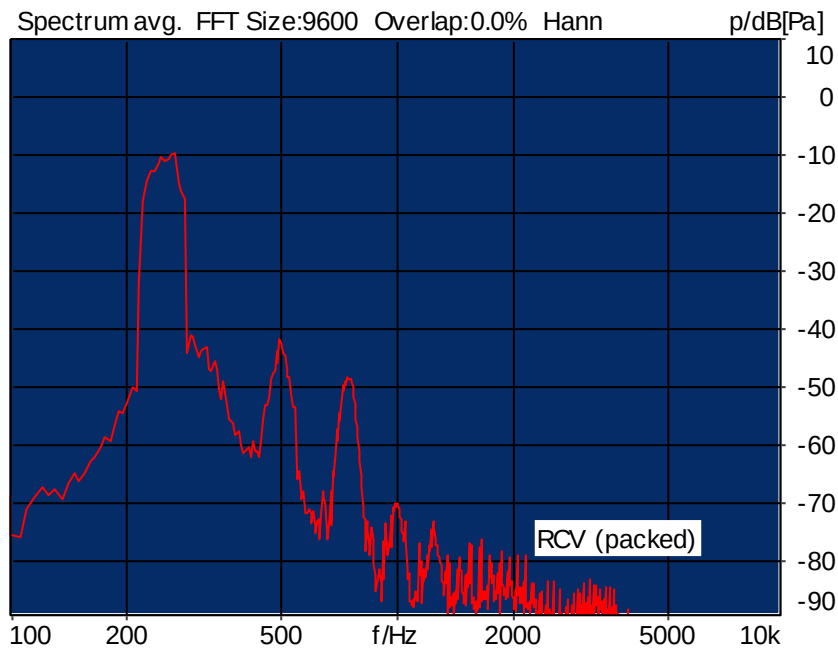
2025-12-19 上午 06:45 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 250 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 33.35 dB (2.15%) Ok

Ok

2025-12-19 上午 06:33 ACQUA 6.1.110

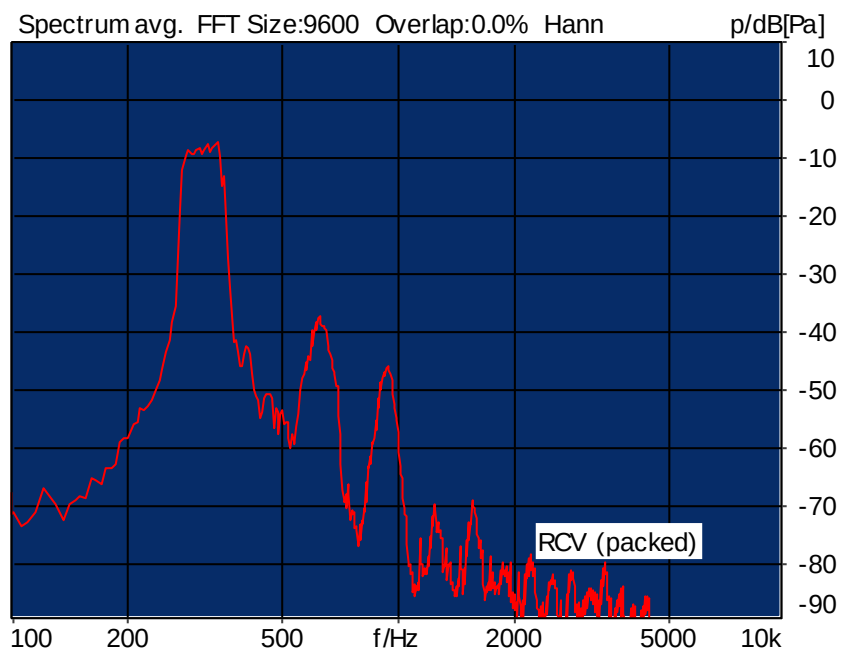
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 315 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 31.05 dB (2.80%) Ok

Ok

2025-12-19 上午 06:33 ACQUA 6.1.110

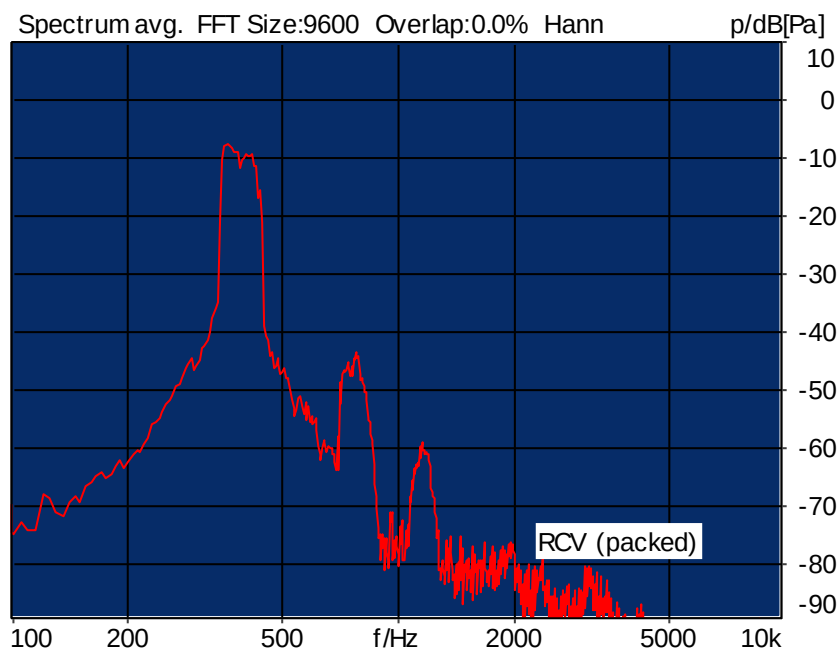
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 34.88 dB (1.80%) Ok

Ok

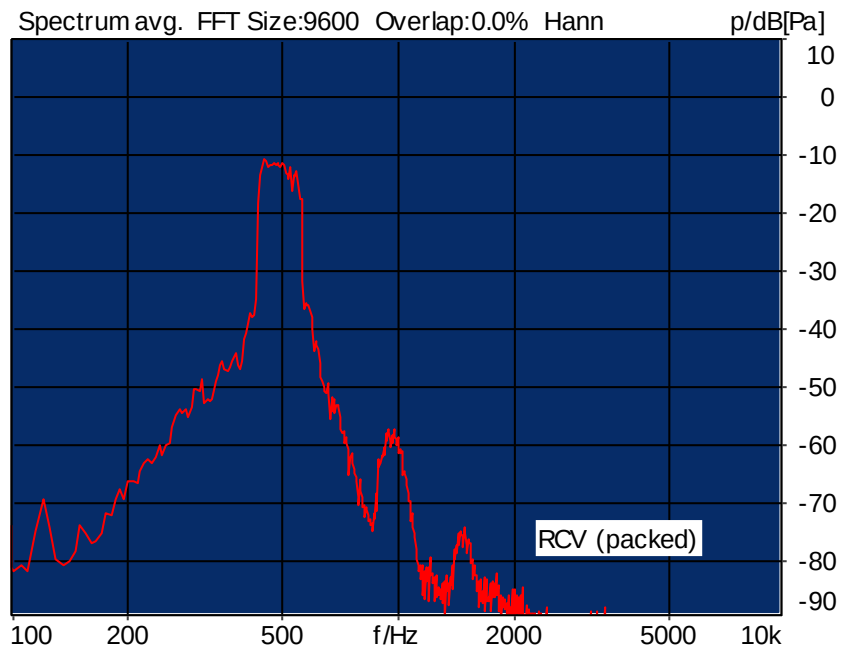
2025-12-19 上午 06:34 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 500 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 34.94 dB (1.79%) Ok

Ok

2025-12-19 上午 06:34 ACQUA 6.1.110

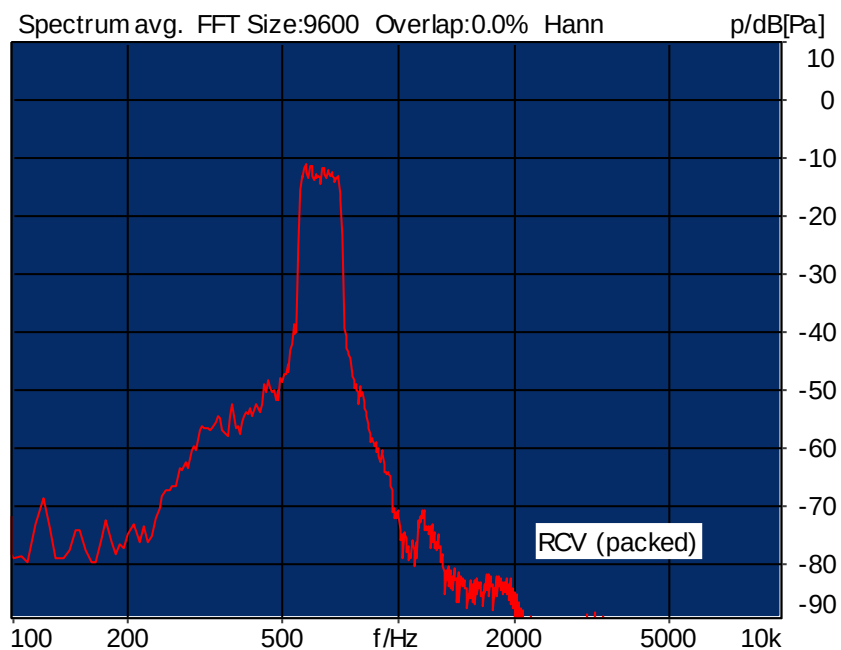
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 37.50 dB (1.33%) Ok

Ok

2025-12-19 上午 06:35 ACQUA 6.1.110

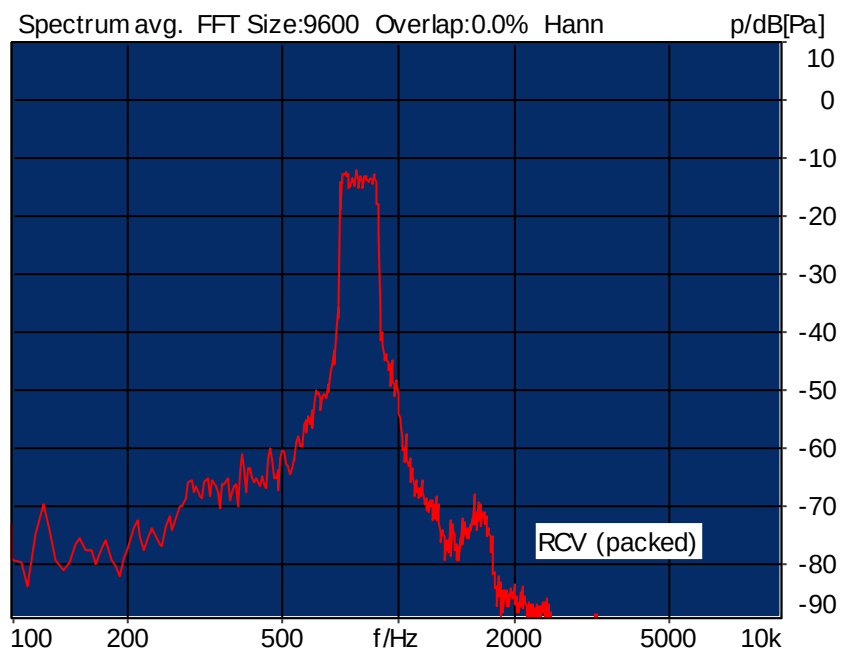
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.80 dB (1.62%) Ok

Ok

2025-12-19 上午 06:35 ACQUA 6.1.110

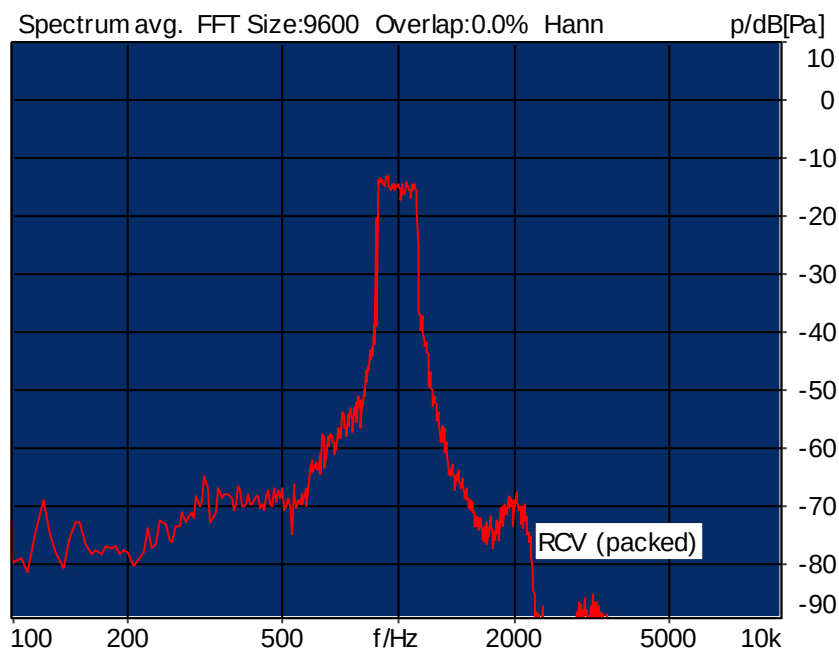
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 32.59 dB (2.35%) Ok

Ok

2025-12-19 上午 06:36 ACQUA 6.1.110

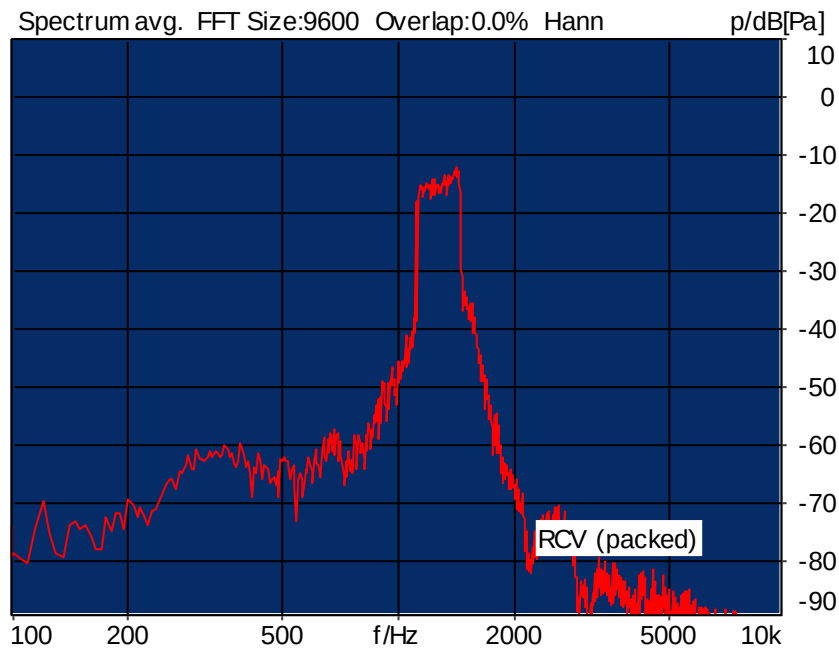
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1250 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 22.85 dB (7.21%) Ok

Ok

2025-12-19 上午 06:36 ACQUA 6.1.110

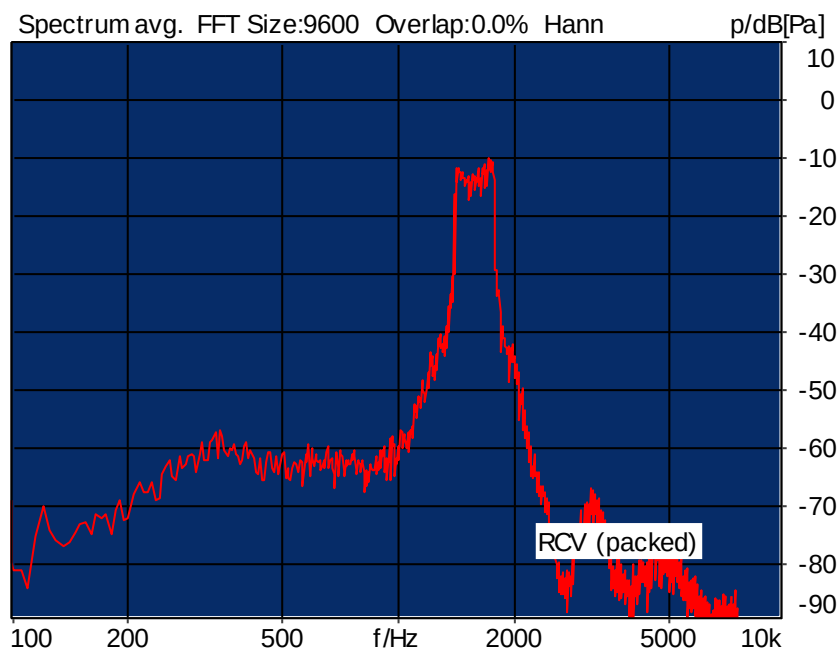
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 26.87 dB (4.54%) Ok

Ok

2025-12-19 上午 06:37 ACQUA 6.1.110

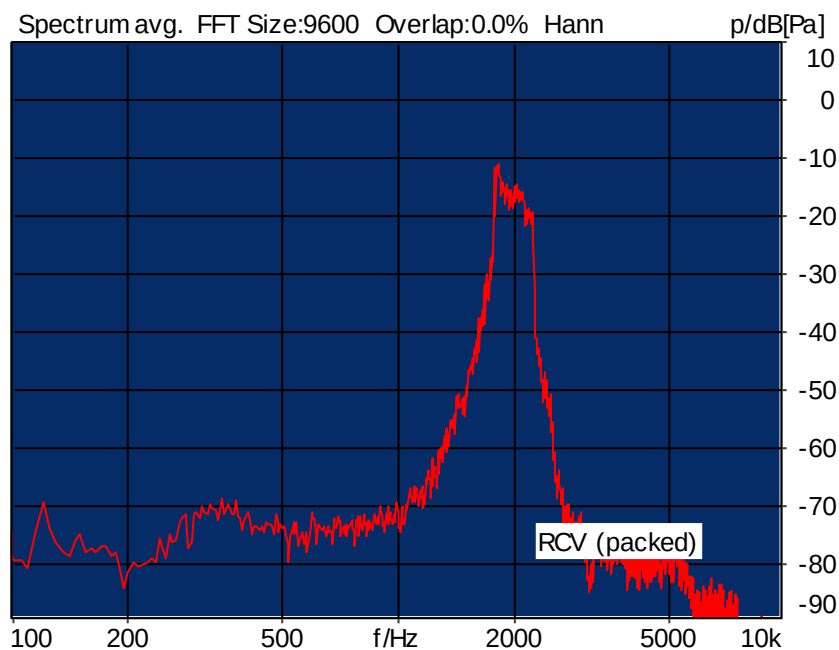
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 21.19 dB (8.72%) Ok

Ok

2025-12-19 上午 06:38 ACQUA 6.1.110

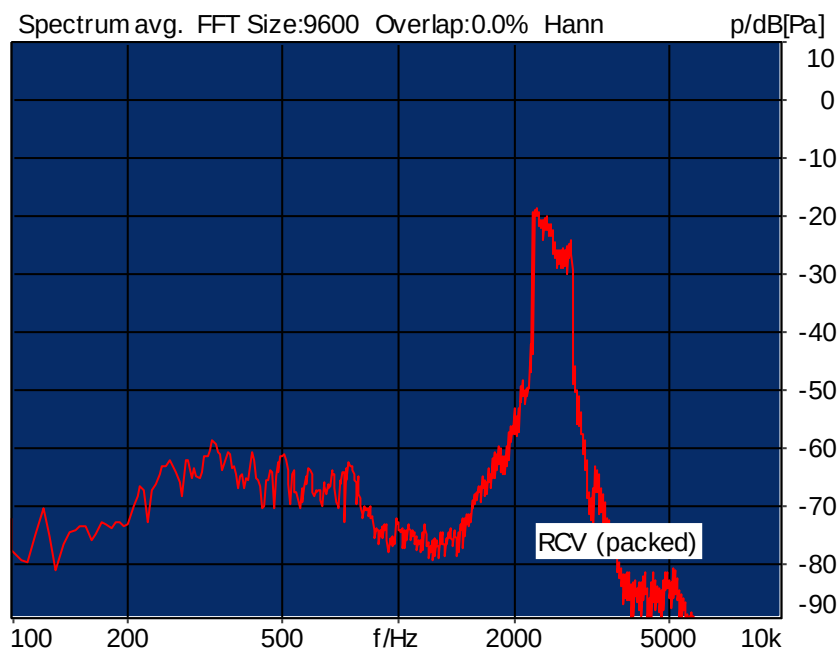
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.64 dB (3.70%) Ok

Ok

2025-12-19 上午 06:38 ACQUA 6.1.110

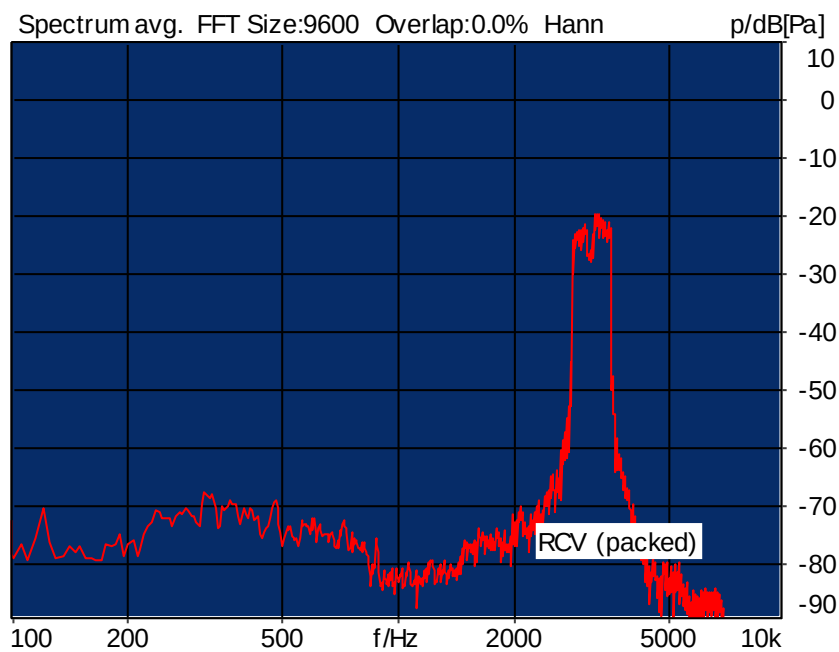
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.88 dB (1.61%) Ok

Ok

2025-12-19 上午 06:39 ACQUA 6.1.110

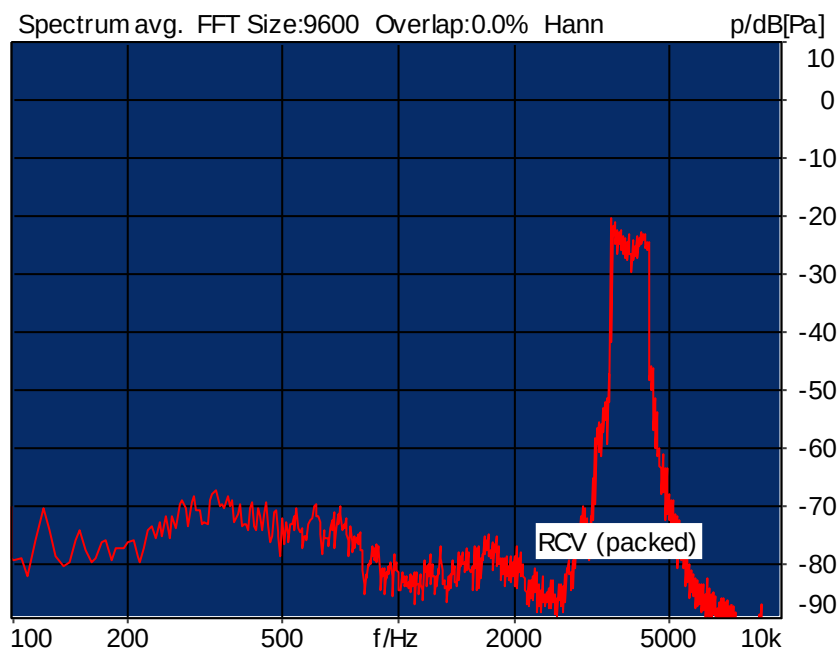
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 4000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 29.79 dB (3.24%) Ok

Ok

2025-12-19 上午 06:39 ACQUA 6.1.110

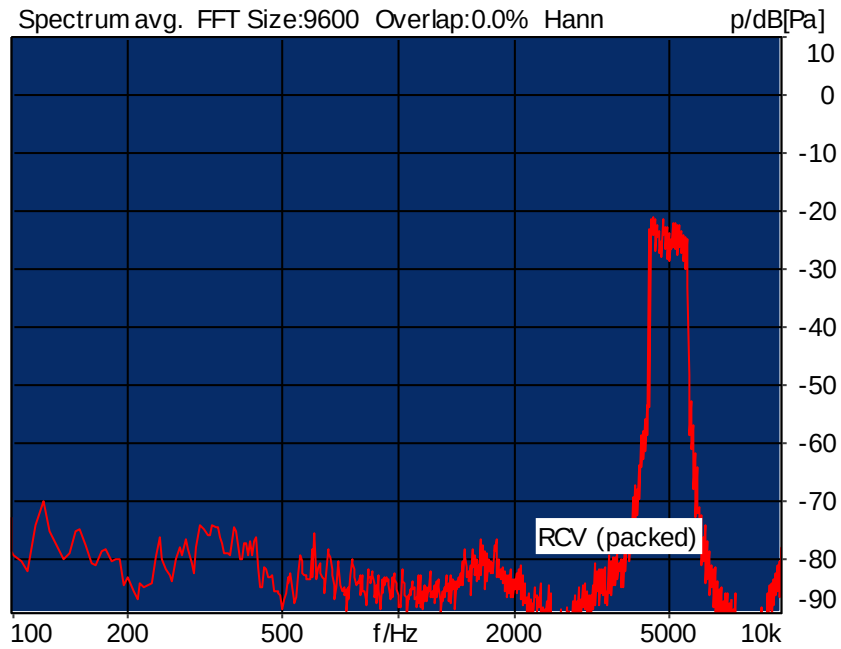
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 5000 Hz 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 36.79 dB (1.45%) Ok

Ok

2025-12-19 上午 06:40 ACQUA 6.1.110

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range

Region	Frequency	SDNR
1	250Hz	33.35 dB
2	315Hz	31.05 dB
3	400Hz	34.88 dB
4	500Hz	34.94 dB
5	630Hz	37.50 dB
6	800Hz	35.80 dB
7	1000Hz	32.59 dB
8	1250Hz	22.85 dB
9	1600Hz	26.87 dB
10	2000Hz	21.19 dB
11	2500Hz	28.64 dB
12	3150Hz	35.88 dB
13	4000Hz	29.79 dB
14	5000Hz	36.79 dB

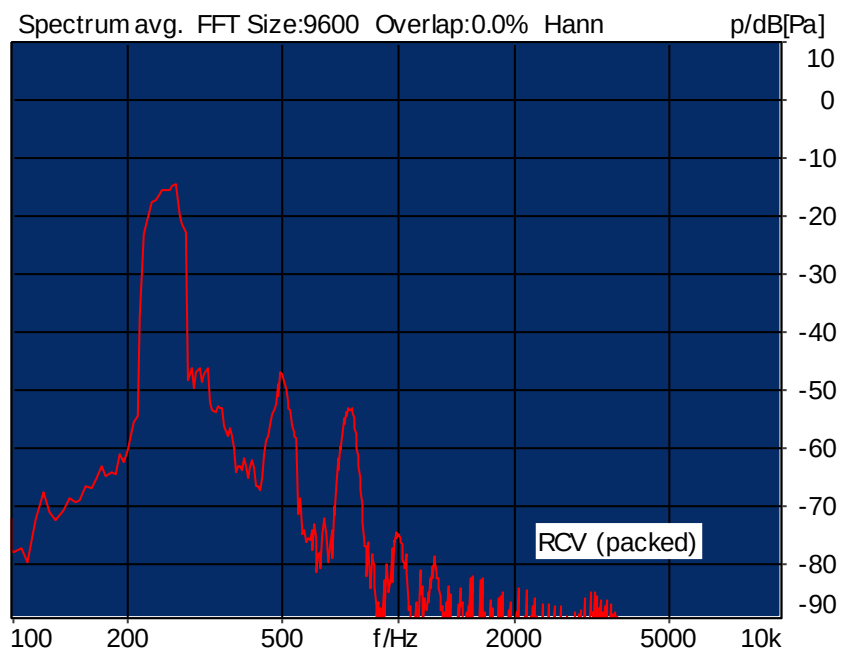
All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.19dB at 2000Hz.

2025-12-19 上午 06:40 ACQUA



5.2 RCV Distortion and Noise - 250 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 33.33 dB (2.16%) Ok

Ok

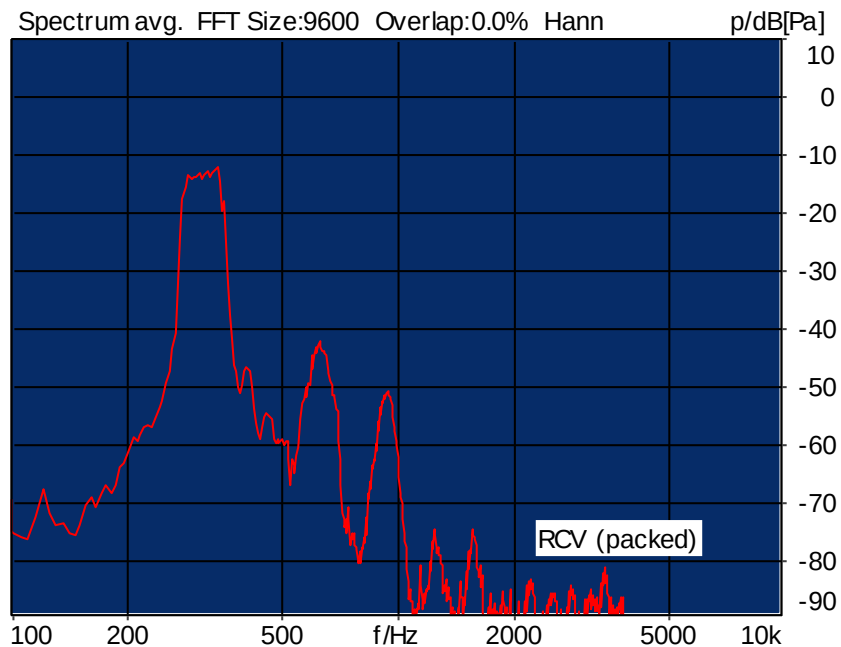
2025-12-19 上午 06:46 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 315 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 30.83 dB (2.87%) Ok

Ok

2025-12-19 上午 06:46 ACQUA 6.1.110

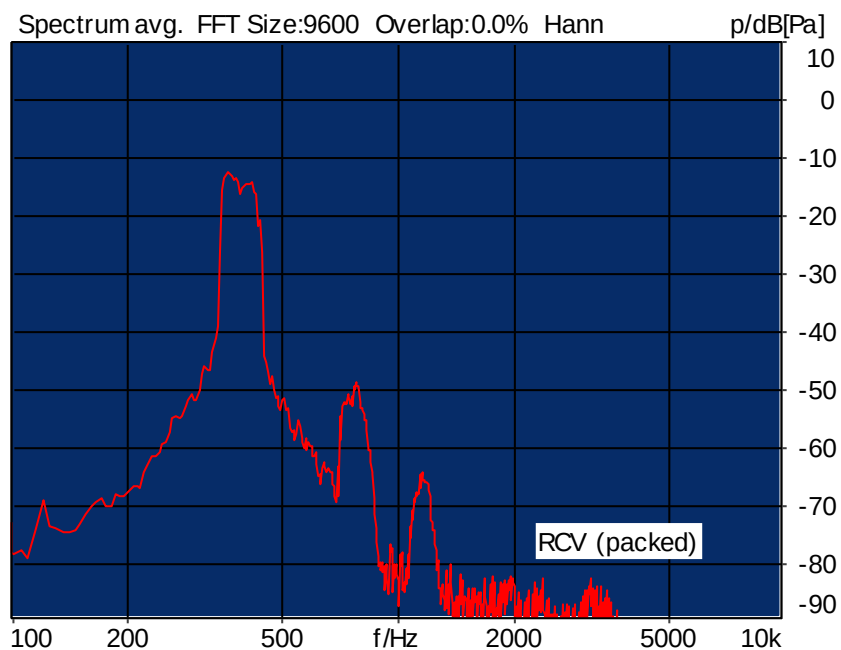
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.16 dB (1.75%) Ok

Ok

2025-12-19 上午 06:47 ACQUA 6.1.110

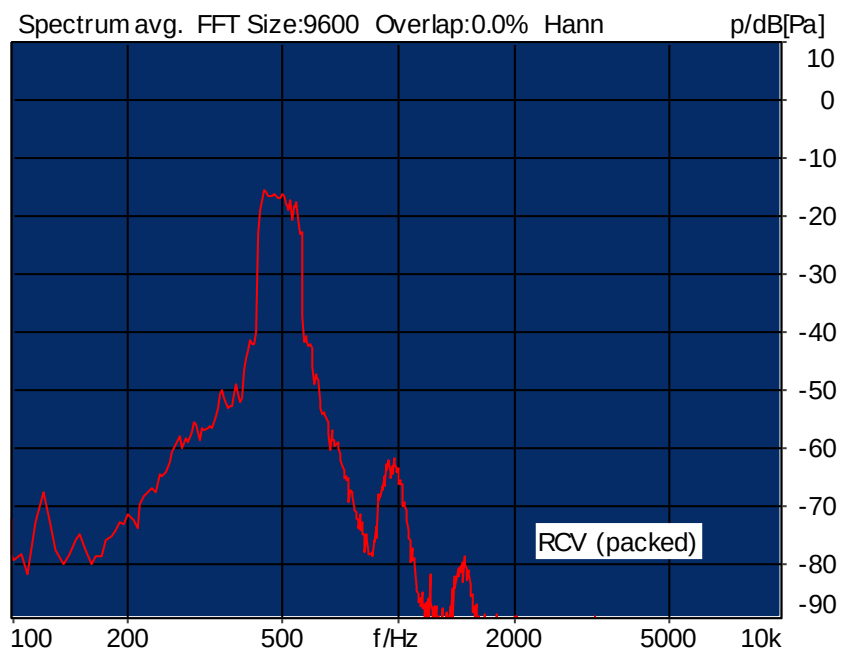
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.20 dB (1.74%) Ok

Ok

2025-12-19 上午 06:47 ACQUA 6.1.110

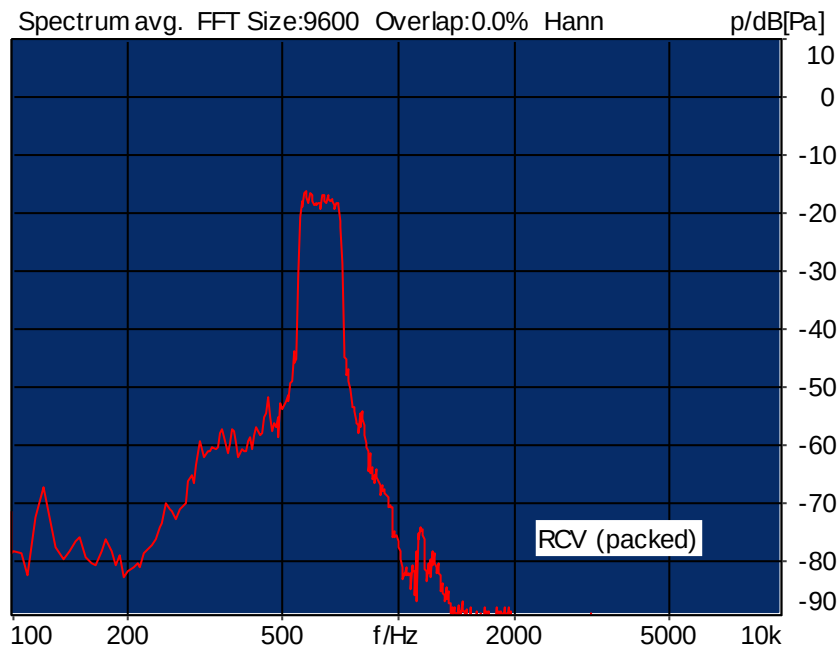
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 37.80 dB (1.29%) Ok

Ok

2025-12-19 上午 06:48 ACQUA 6.1.110

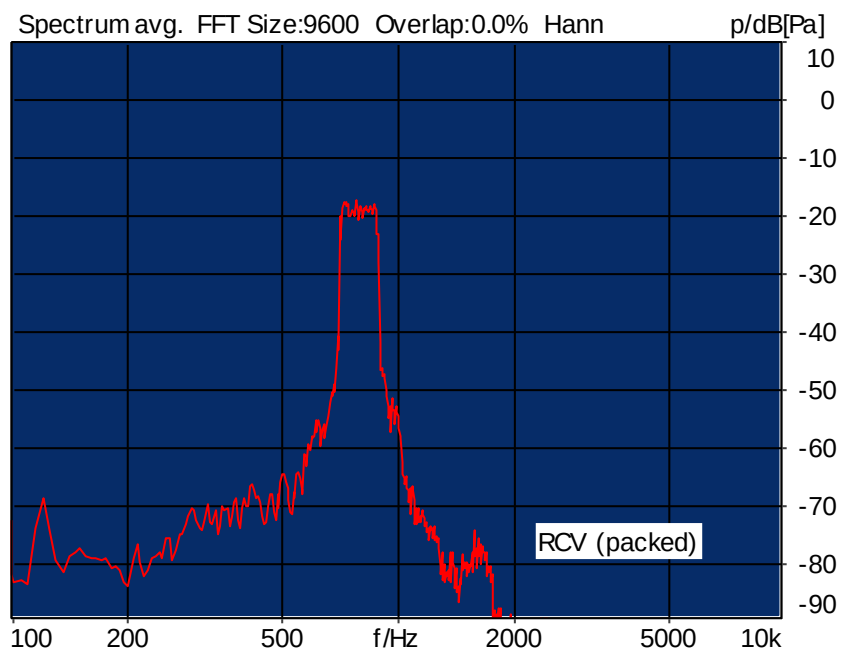
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 36.18 dB (1.55%) Ok

Ok

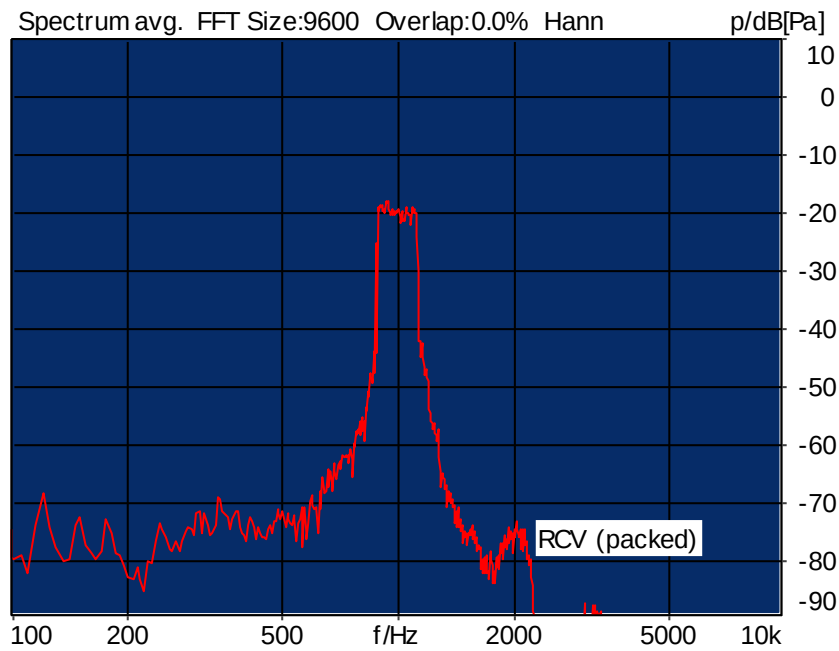
2025-12-19 上午 06:48 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 32.91 dB (2.26%) Ok

Ok

2025-12-19 上午 06:49 ACQUA 6.1.110

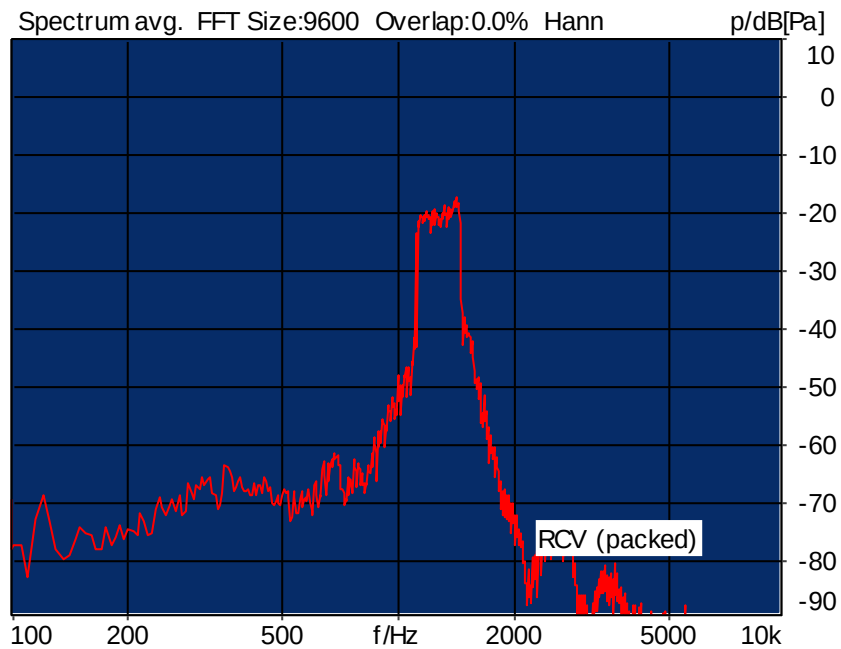
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1250 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Ok

2025-12-19 上午 06:49 ACQUA 6.1.110

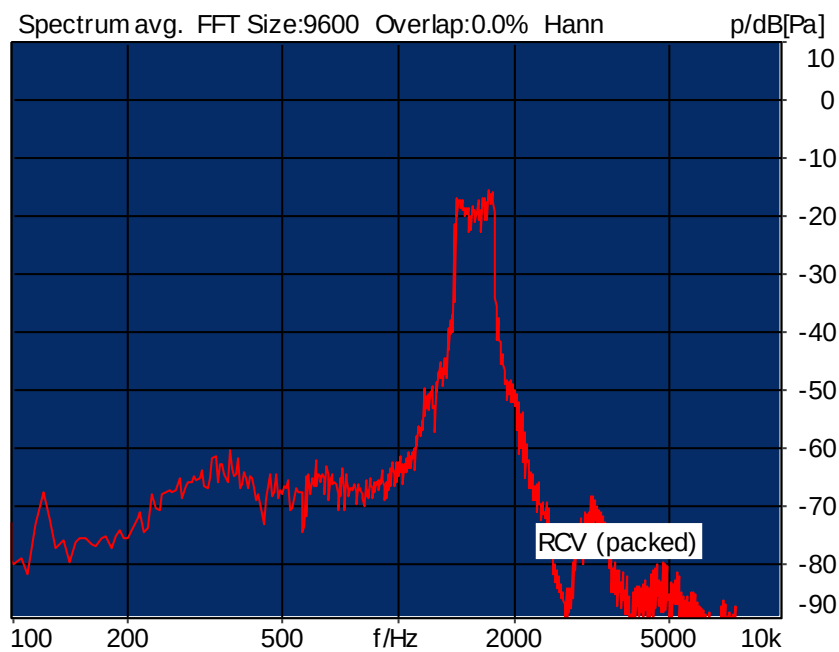
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 26.51 dB (4.72%) Ok

Ok

2025-12-19 上午 06:50 ACQUA 6.1.110

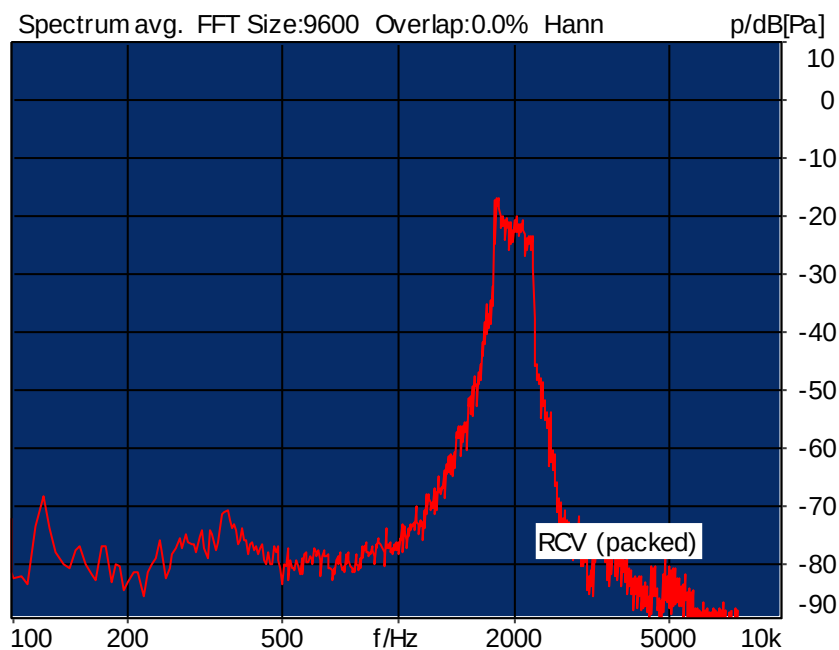
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 21.67 dB (8.25%) Ok

Ok

2025-12-19 上午 06:50 ACQUA 6.1.110

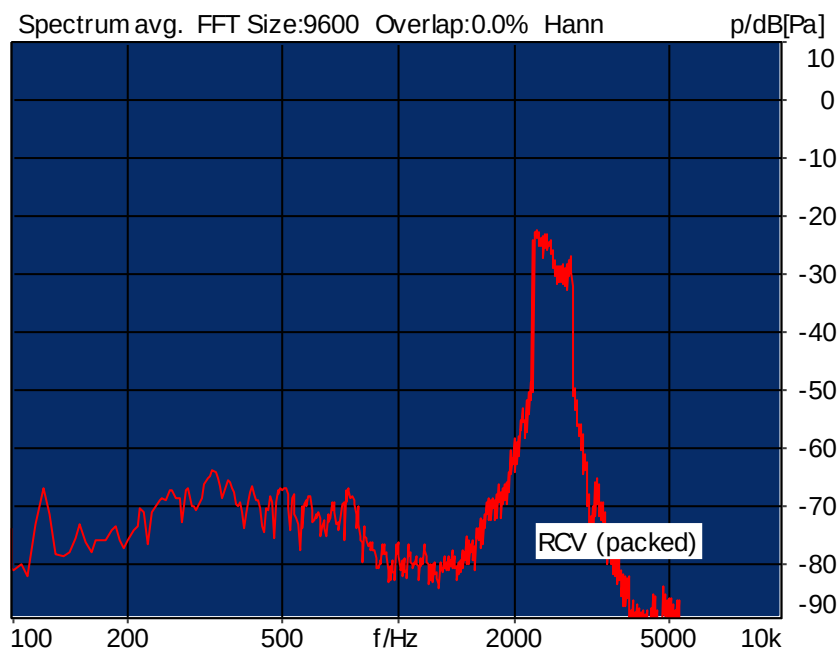
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 29.36 dB (3.41%) Ok

Ok

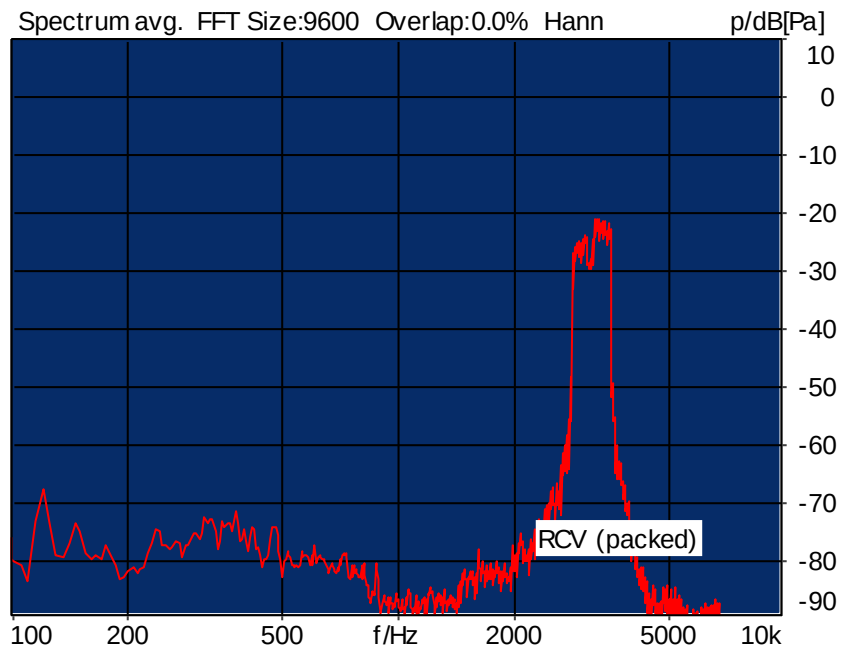
2025-12-19 上午 06:51 ACQUA 6.1.110

Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 3150 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 36.67 dB (1.47%) Ok

Ok

2025-12-19 上午 06:51 ACQUA 6.1.110

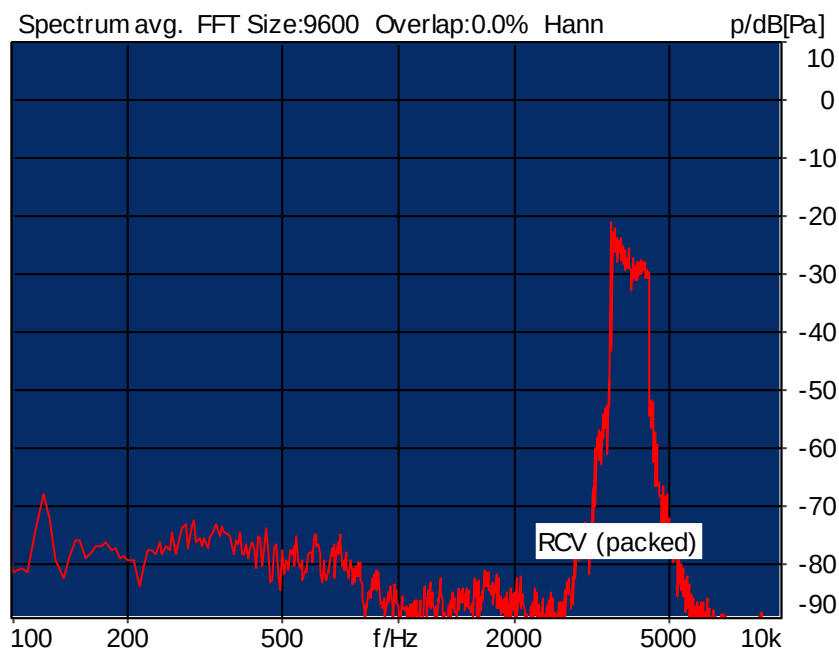
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 4000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 30.94 dB (2.84%) Ok

Ok

2025-12-19 上午 06:52 ACQUA 6.1.110

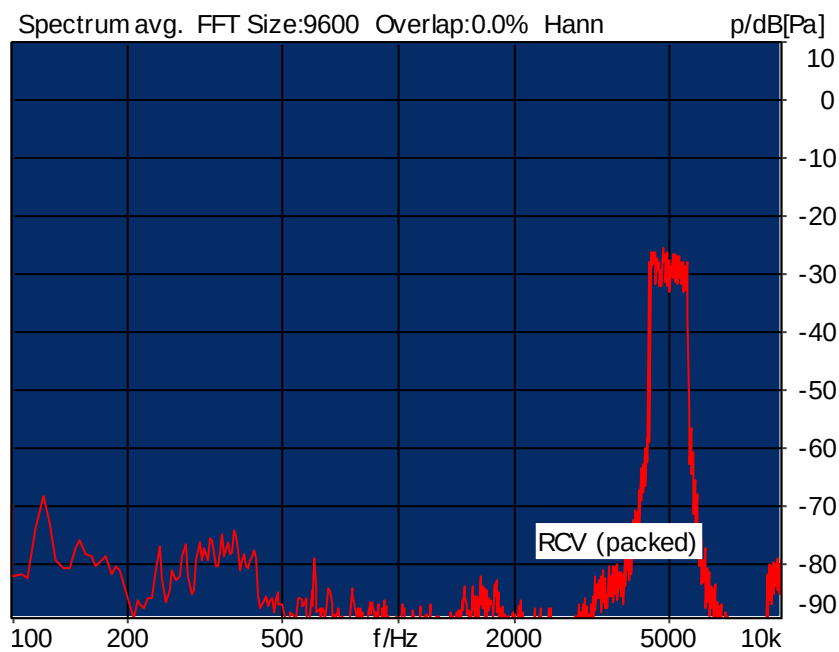
Limits

lower
20.00 dB



5.2 RCV Distortion and Noise - 5000 Hz 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 36.70 dB (1.46%) Ok

Ok

2025-12-19 上午 06:53 ACQUA 6.1.110

Limits

lower
20.00 dB



Report - Receive Distortion and Noise (Conversational Gain) 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range

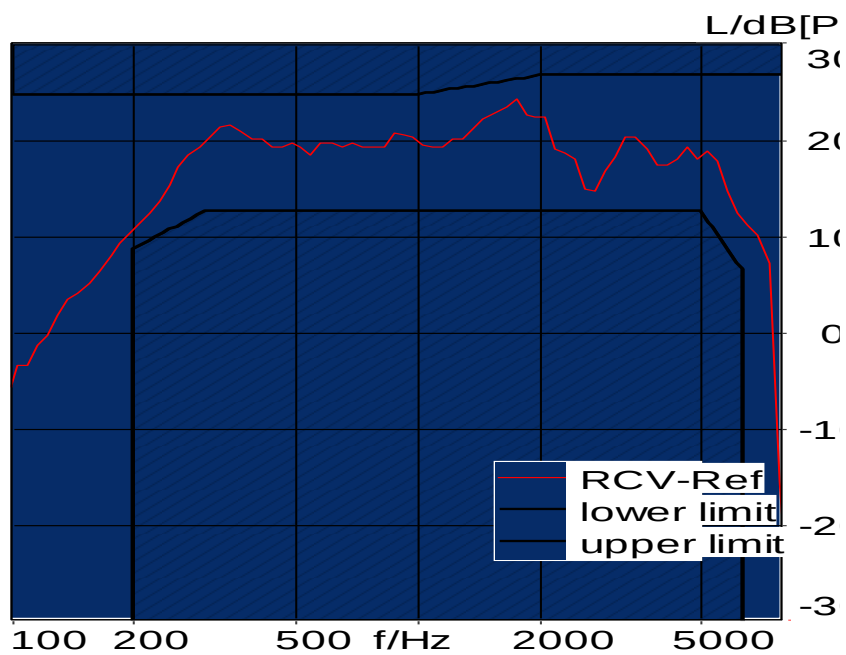
Region	Frequency	SDNR
1	250Hz	33.33 dB
2	315Hz	30.83 dB
3	400Hz	35.16 dB
4	500Hz	35.20 dB
5	630Hz	37.80 dB
6	800Hz	36.18 dB
7	1000Hz	32.91 dB
8	1250Hz	22.95 dB
9	1600Hz	26.51 dB
10	2000Hz	21.67 dB
11	2500Hz	29.36 dB
12	3150Hz	36.67 dB
13	4000Hz	30.94 dB
14	5000Hz	36.70 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.67dB at 2000Hz.

2025-12-19 上午 06:53 ACQUA

5.3 Frequency Response 8N DF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

2.08 dB at 2721.8 Hz Ok

Ok

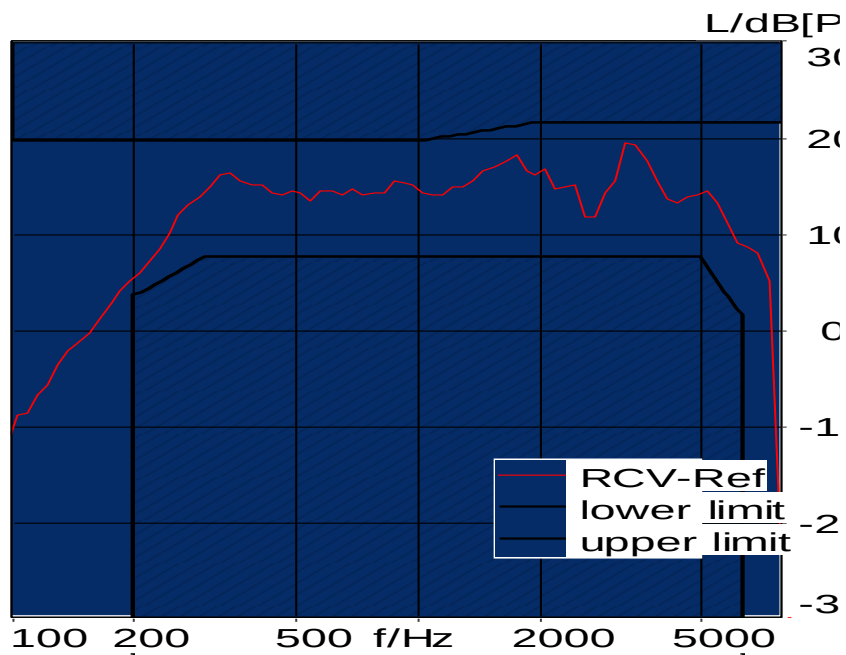
2025-12-19 上午 06:40 ACQUA 6.1.110

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

2.19 dB at 3245.6 Hz Ok

Ok

2025-12-19 上午 06:53 ACQUA 6.1.110

Limits

lower
Fit into tolerance



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.b>



#4 GSM850 AMR WB 12.65kbps

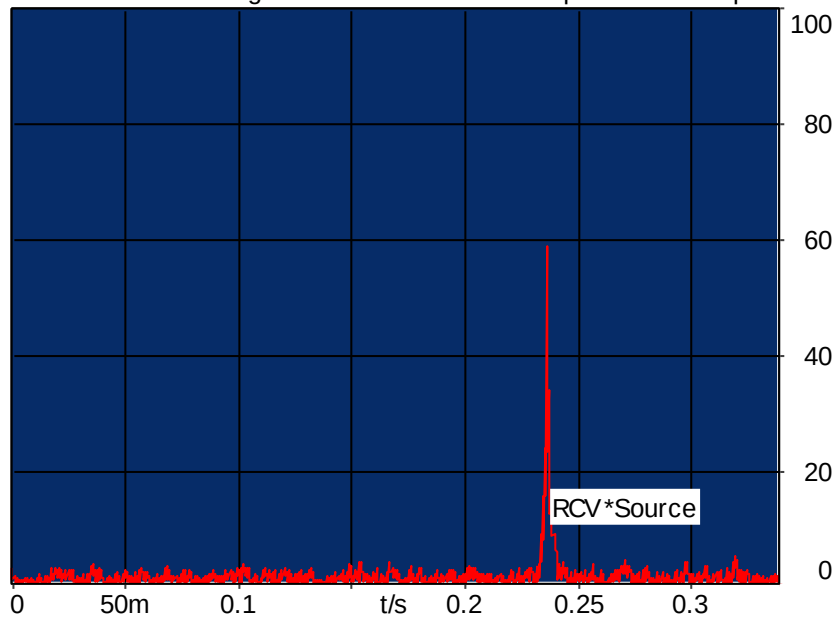
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	236.9
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.67
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.32



Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope | %



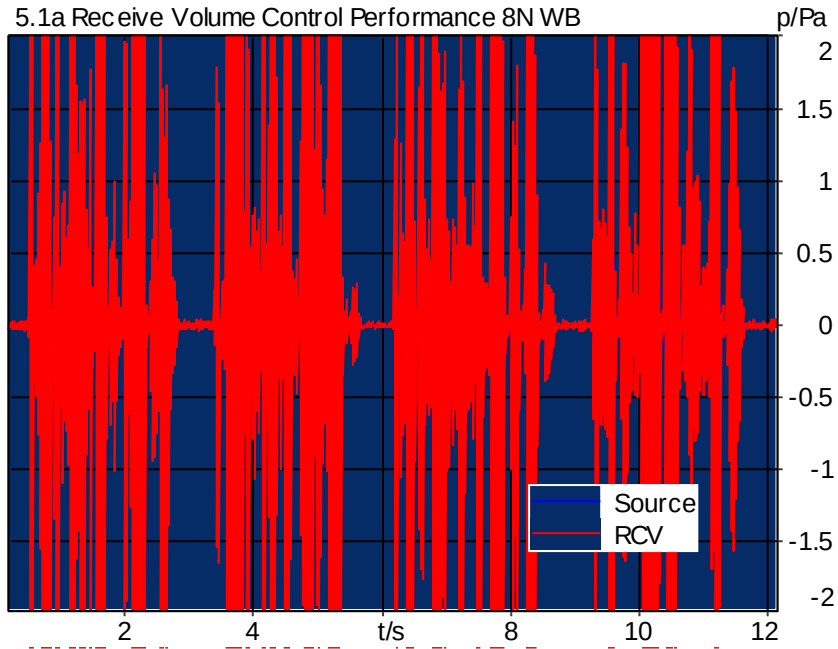
Channel	Delay	Correlation
RCV*Source	236.9 ms	58.92 %

2025-12-18 上午 04:25 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1a Receive Volume Control Performance 8N WB



Channel	Speech level	Activity	
RCV	90.67 dB[SPL]	80.50%	Ok

Ok

2025-12-18 上午 04:27 ACQUA 6.1.110

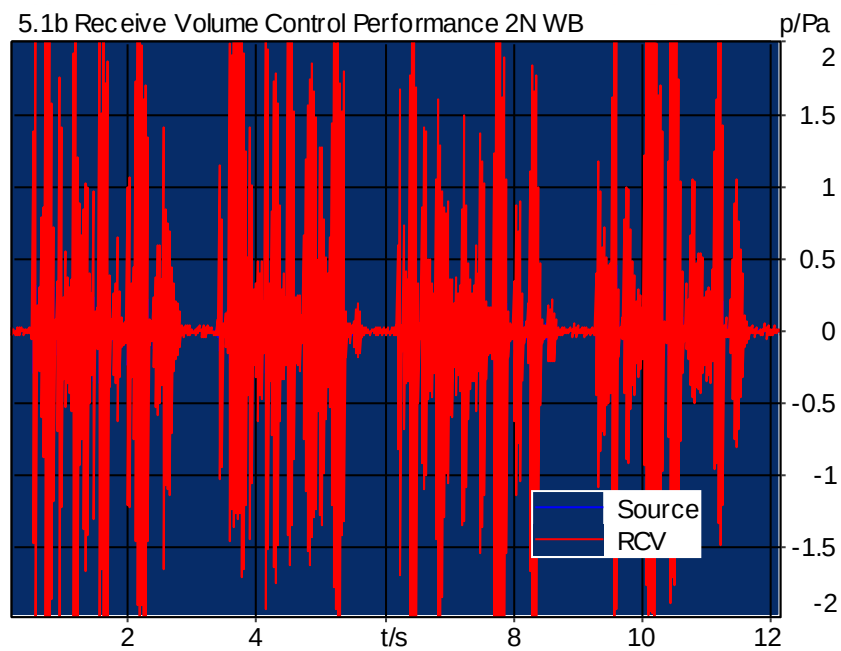
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1b Receive Volume Control Performance 2N WB



Channel	Speech level	Activity	
RCV	85.32 dB[SPL]	80.58%	Ok

Ok

2025-12-18 上午 04:26 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]



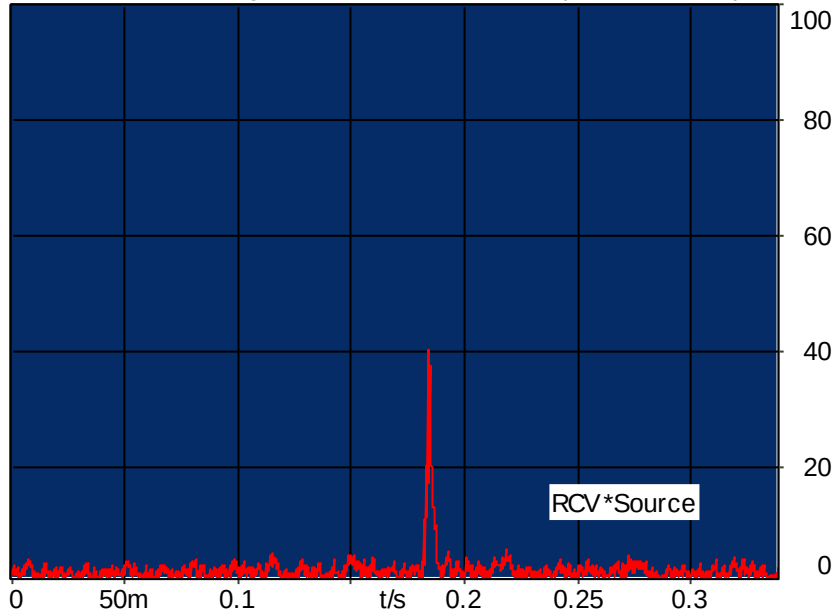
#5 WCDMA II AMR NB 4.75kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	185.1
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.14
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.00

Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %



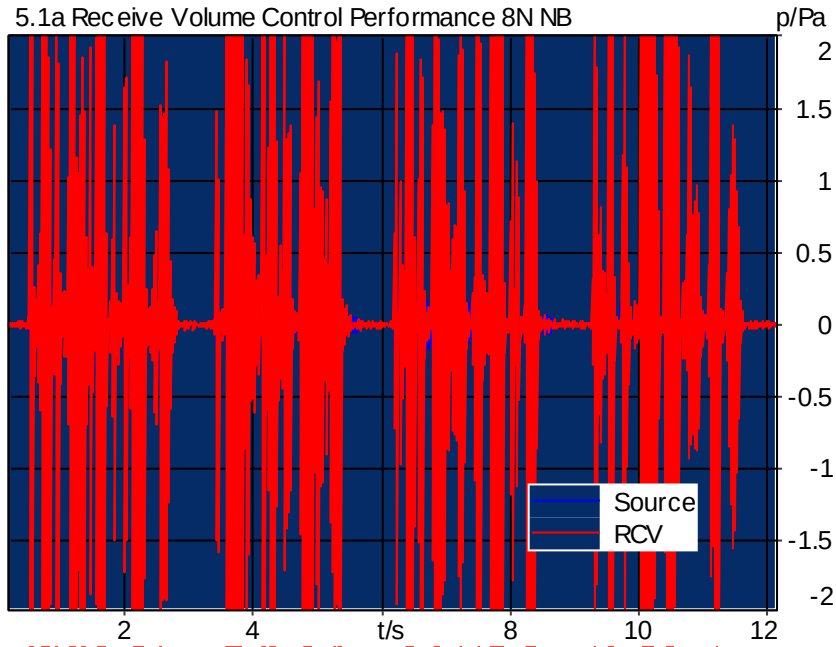
Channel	Delay	Correlation
RCV*Source	185.1 ms	40.31 %

2025-12-18 上午 05:12 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1a Receive Volume Control Performance 8N NB



Channel	Speech level	Activity	
RCV	90.14 dB[SPL]	80.12%	Ok

Ok

2025-12-18 上午 05:13 ACQUA 6.1.110

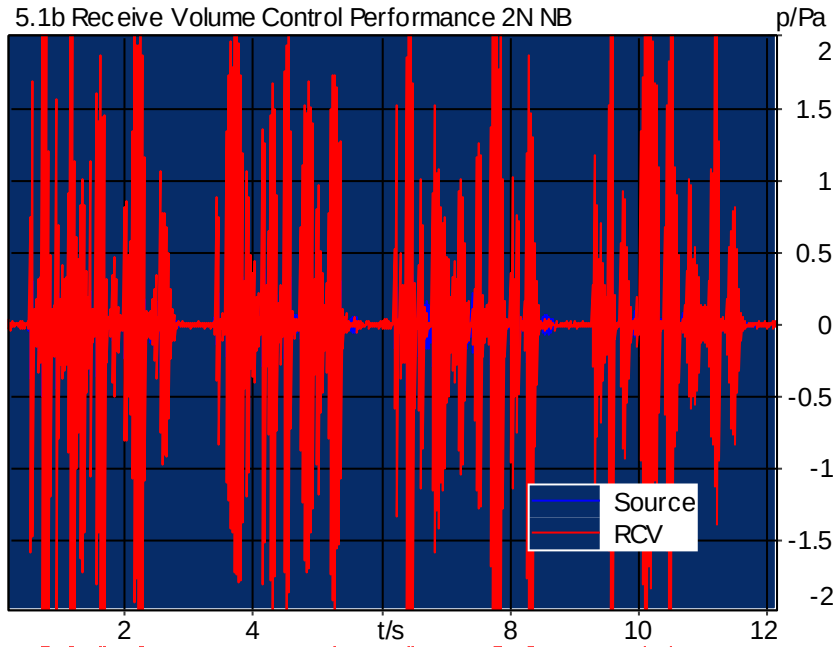
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1b Receive Volume Control Performance 2N NB



Channel	Speech level	Activity	
RCV	85.00 dB[SPL]	80.21%	Ok

Ok

2025-12-18 上午 05:12 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]



#6 LTE Band 7 AMR WB 6.60kbps

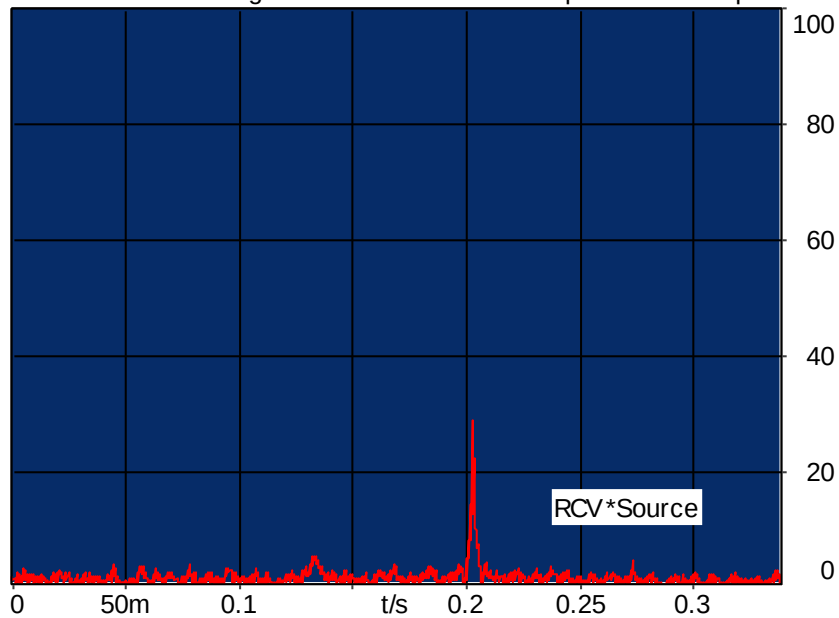
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	203.3
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.62
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.60



Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope I %



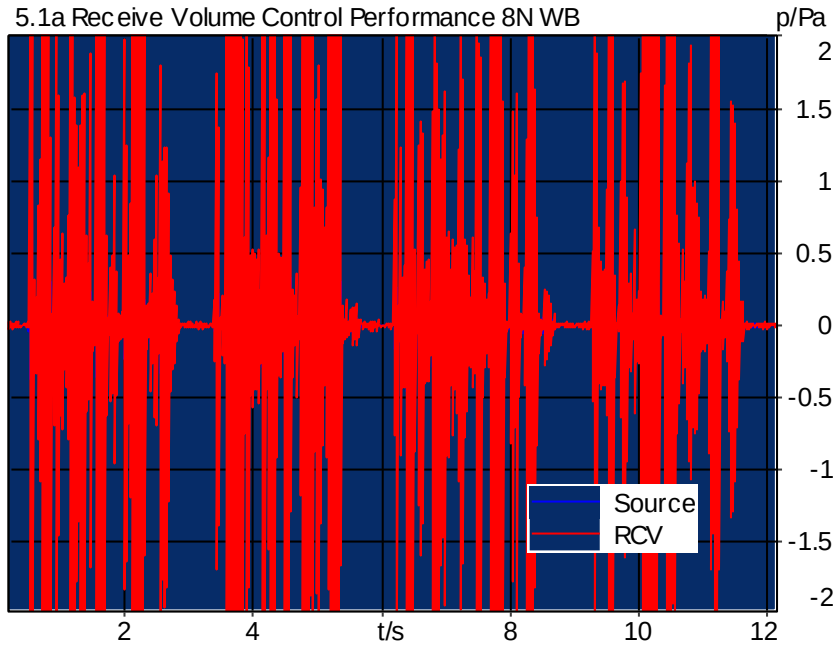
Channel	Delay	Correlation
RCV*Source	203.3 ms	28.80 %

2025-12-18 下午 11:15 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1a Receive Volume Control Performance 8N WB



Channel	Speech level	Activity	
RCV	89.62 dB[SPL]	80.42%	Ok

Ok

2025-12-18 下午 11:16 ACQUA 6.1.110

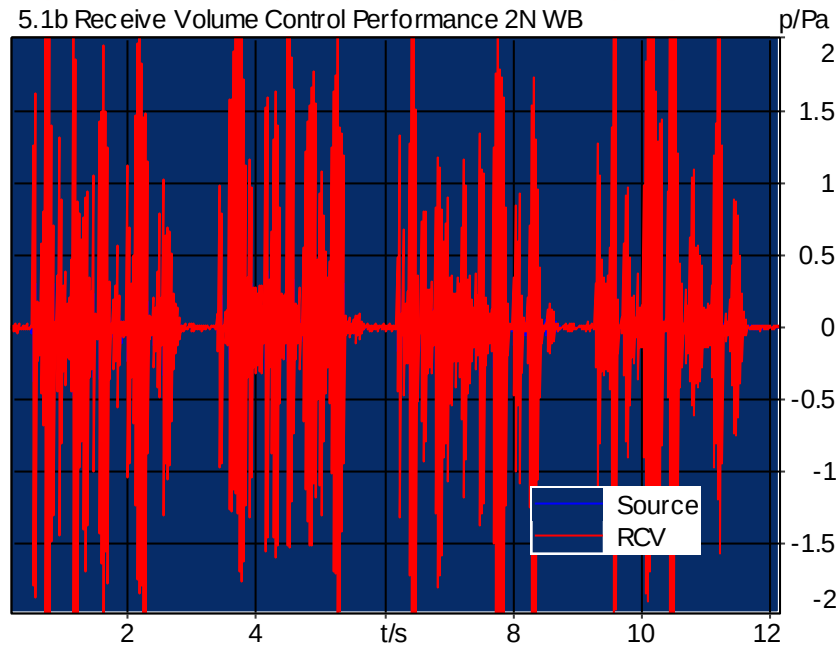
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1b Receive Volume Control Performance 2N WB



Channel	Speech level	Activity	
RCV	84.60 dB[SPL]	80.37%	Ok

Ok

2025-12-18 下午 11:16 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]



#7 FR1 n12 EVS WB 5.9kbps

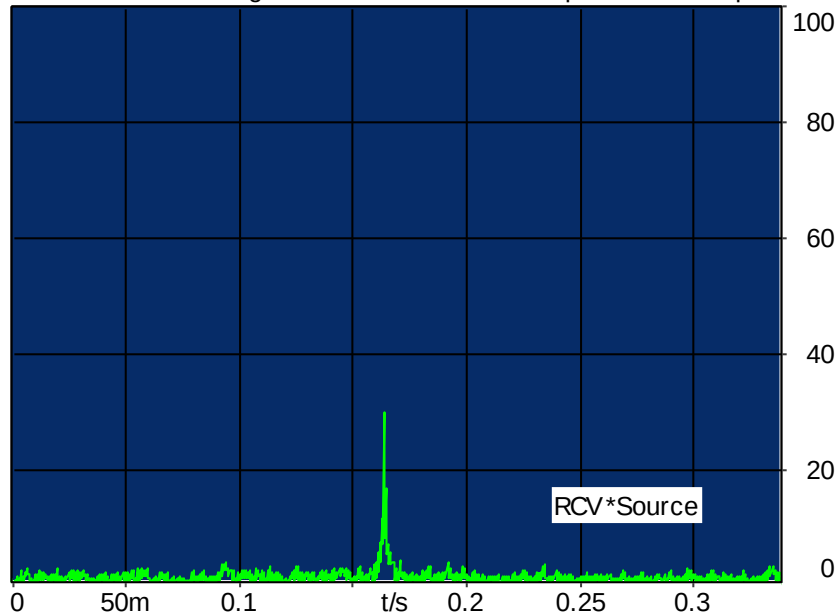
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	164.5
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.20
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.14



Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope | %



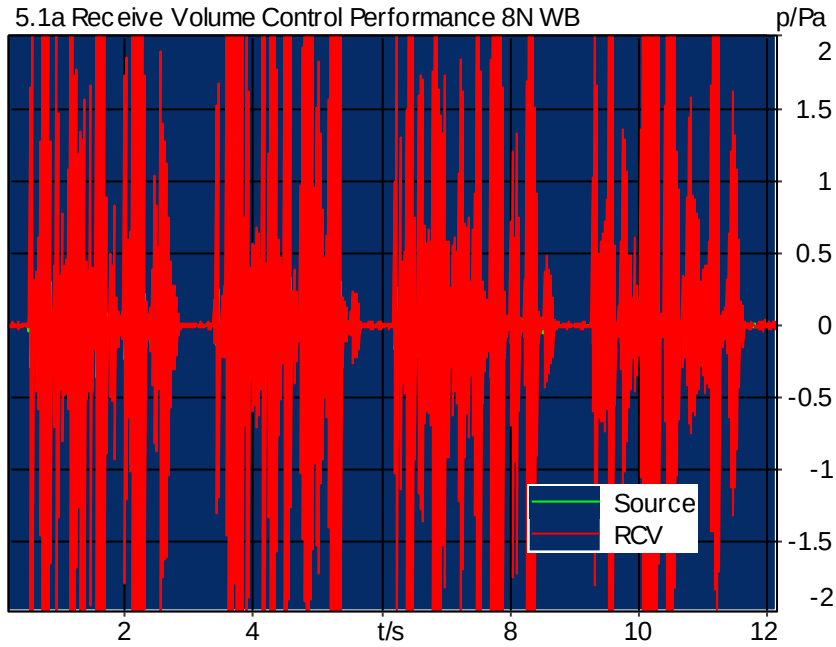
Channel	Delay	Correlation
RCV*Source	164.5 ms	29.81 %

2026-01-02 下午 10:44 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1a Receive Volume Control Performance 8N WB



Channel	Speech level	Activity	
RCV	89.20 dB[SPL]	80.70%	Ok

Ok

2026-01-02 下午 10:44 ACQUA 6.1.110

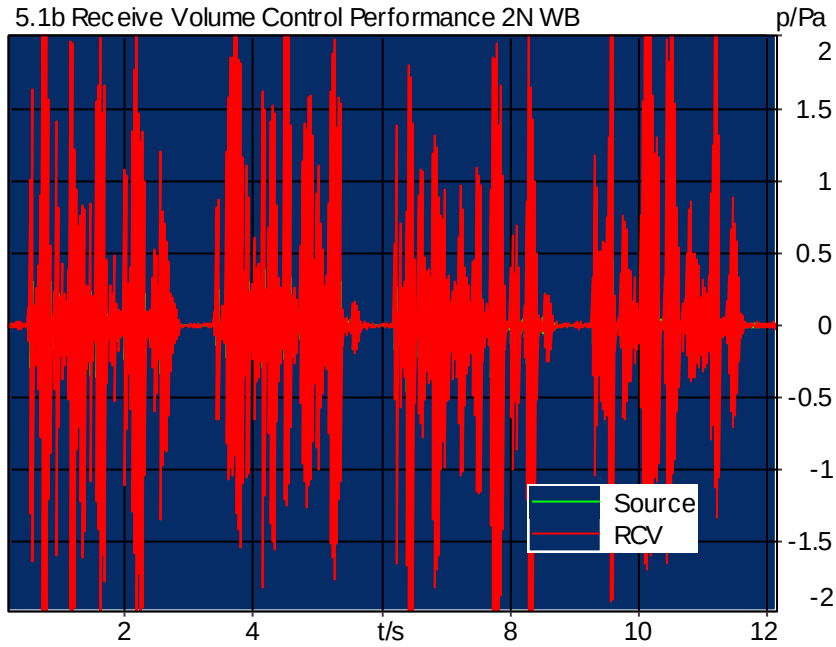
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1b Receive Volume Control Performance 2N WB



Channel	Speech level	Activity	
RCV	84.14 dB[SPL]	80.64%	Ok

Ok

2026-01-02 下午 10:45 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]



#8 WiFi 5GHz EVS WB 5.9kbps

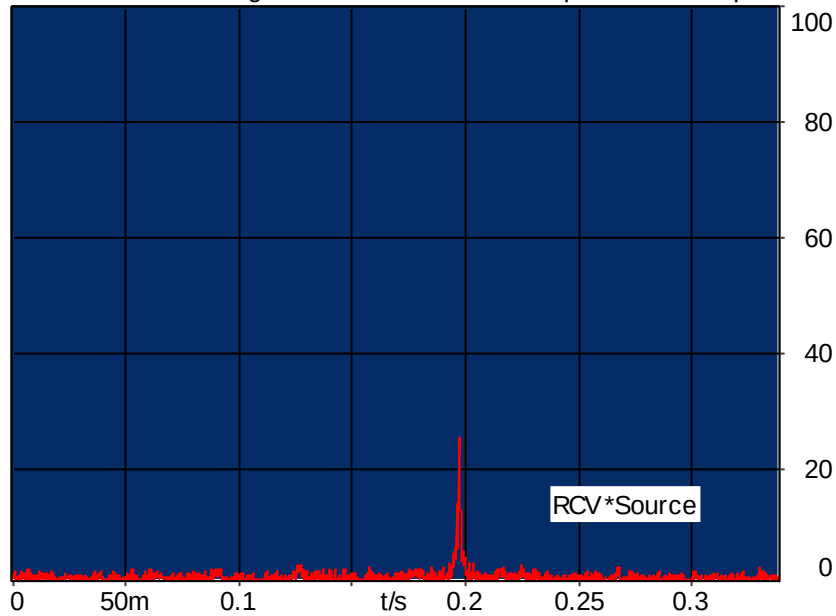
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	197.4
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.05
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.86



Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope | %



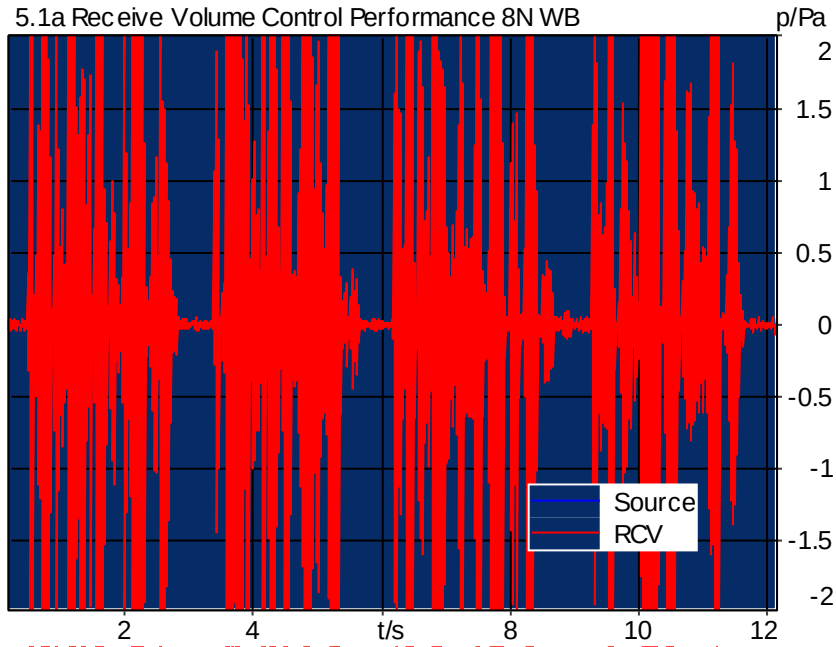
Channel	Delay	Correlation
RCV*Source	197.4 ms	25.52 %

2025-12-18 上午 07:16 ACQUA 6.1.110

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1a Receive Volume Control Performance 8N WB



Channel	Speech level	Activity	
RCV	90.05 dB[SPL]	81.25%	Ok

Ok

2025-12-18 上午 07:23 ACQUA 6.1.110

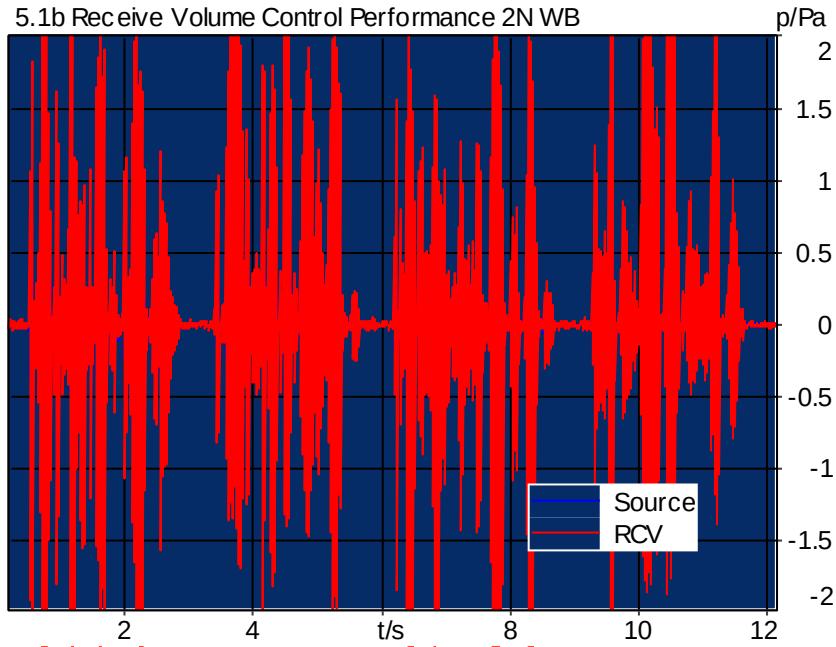
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1b Receive Volume Control Performance 2N WB



Channel	Speech level	Activity	
RCV	84.86 dB[SPL]	80.52%	Ok

Ok

2025-12-18 上午 07:16 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]