



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.a>



#1 LTE B106 EVS WB 24.4kbps

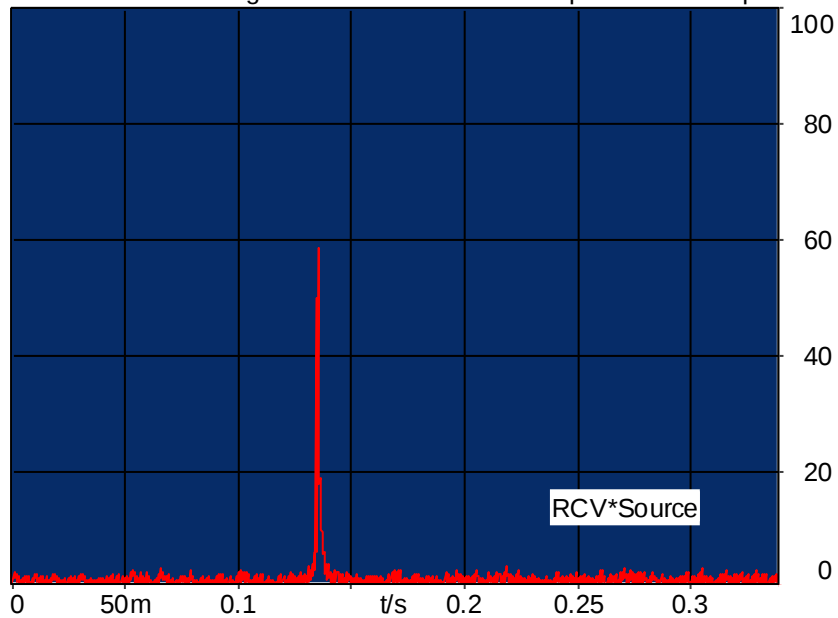
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	135.7
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	85.11
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.93
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.01
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.24
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.22
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.14
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.19
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.31
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.01
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.36
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.58
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.63
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.25
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.88
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.44
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.58
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	2.64
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.68
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.57
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.00
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.76
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.34
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.37
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.31
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.29
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.47
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.67
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.09
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.17
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.23
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.30
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.81
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	22.09
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	2.69



Overall Receive Delay WB

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

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



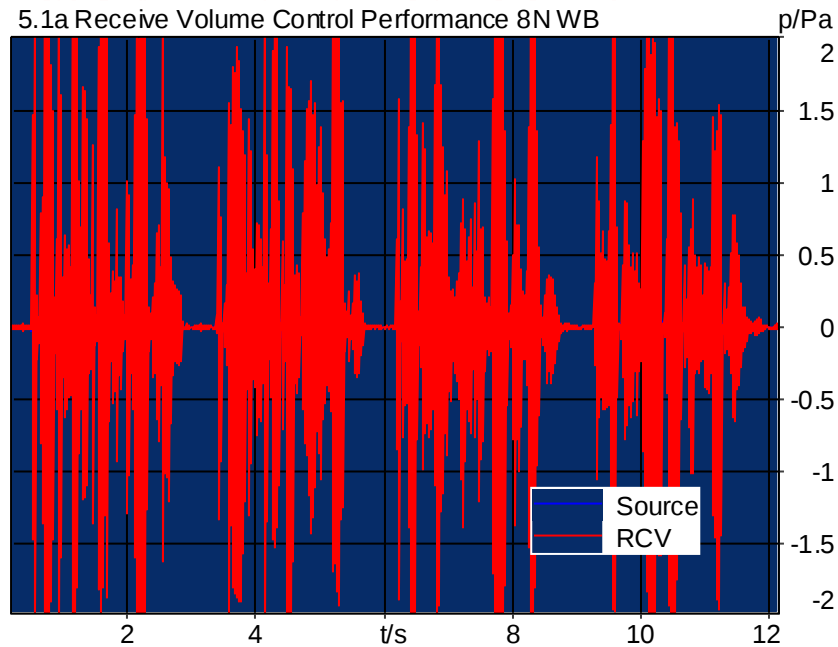
Channel	Delay	Correlation
RCV*Source	135.7 ms	58.63 %

2026-02-14 上午 04:29 ACQUA 6.2.200

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	85.11 dB[SPL]	84.63%	Ok

Ok

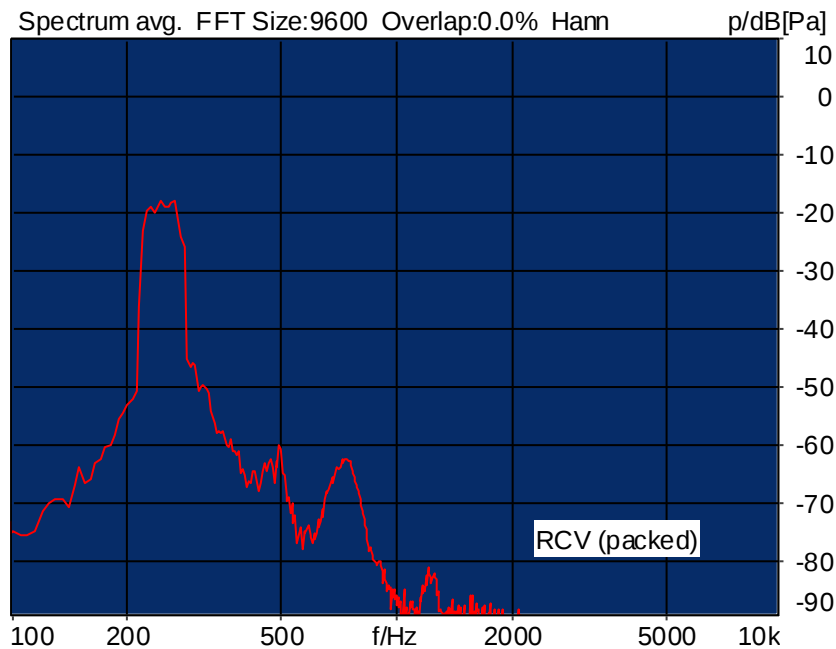
2026-02-14 上午 04:39 ACQUA 6.2.200

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): 37.93 dB (1.27%) Ok

Ok

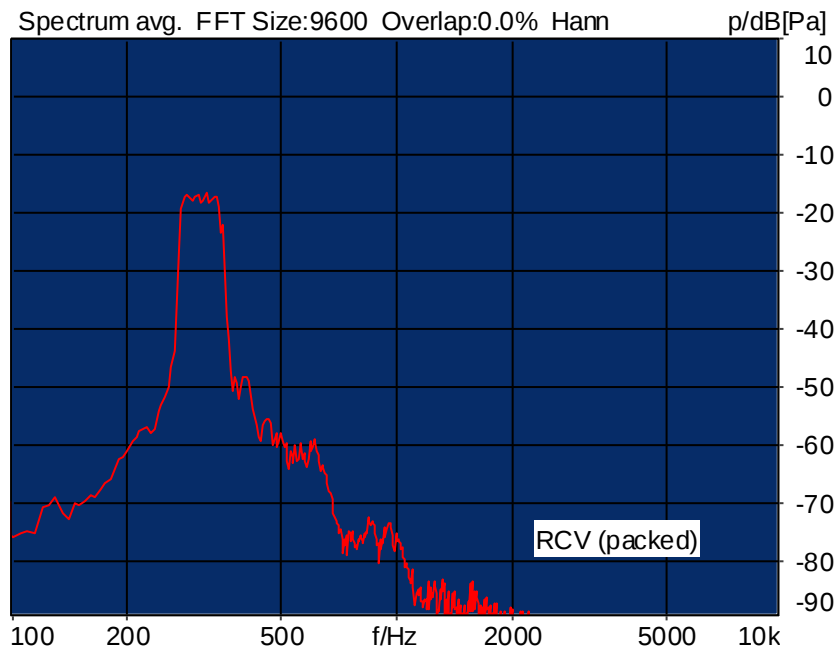
2026-02-14 上午 04:40 ACQUA 6.2.200

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): 37.01 dB (1.41%) Ok

Ok

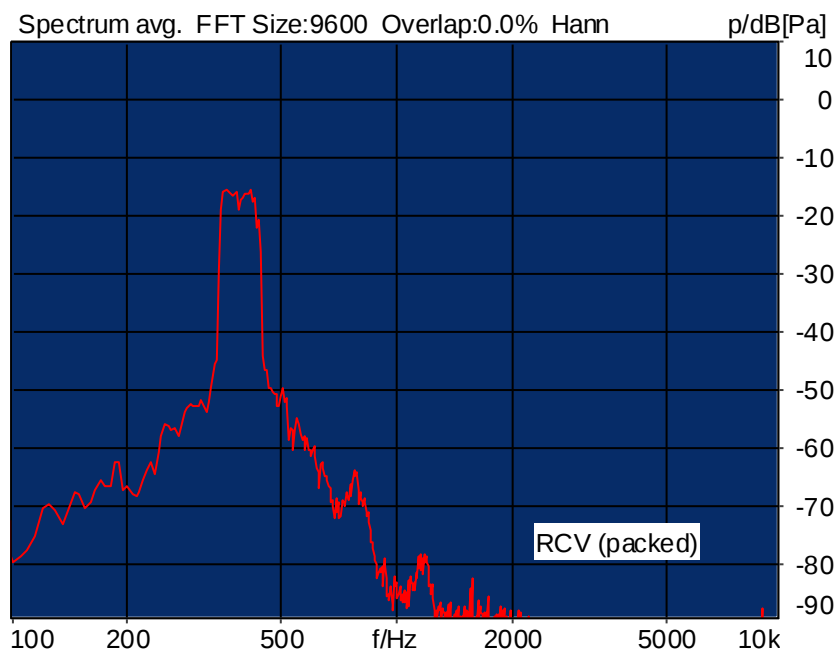
2026-02-14 上午 04:40 ACQUA 6.2.200

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): 38.24 dB (1.22%) Ok

Ok

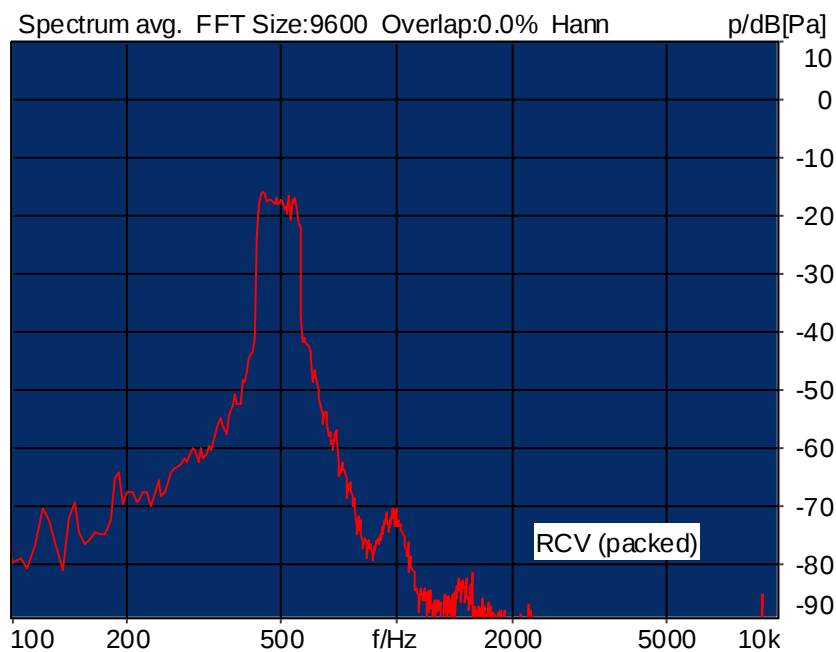
2026-02-14 上午 04:41 ACQUA 6.2.200

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): 35.22 dB (1.73%) Ok

Ok

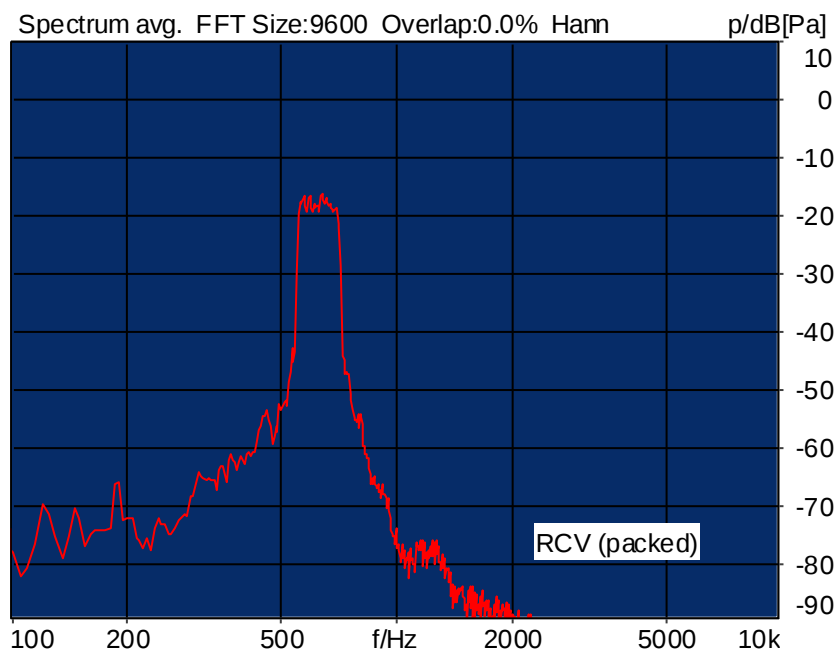
2026-02-14 上午 04:41 ACQUA 6.2.200

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): 37.14 dB (1.39%) Ok

Ok

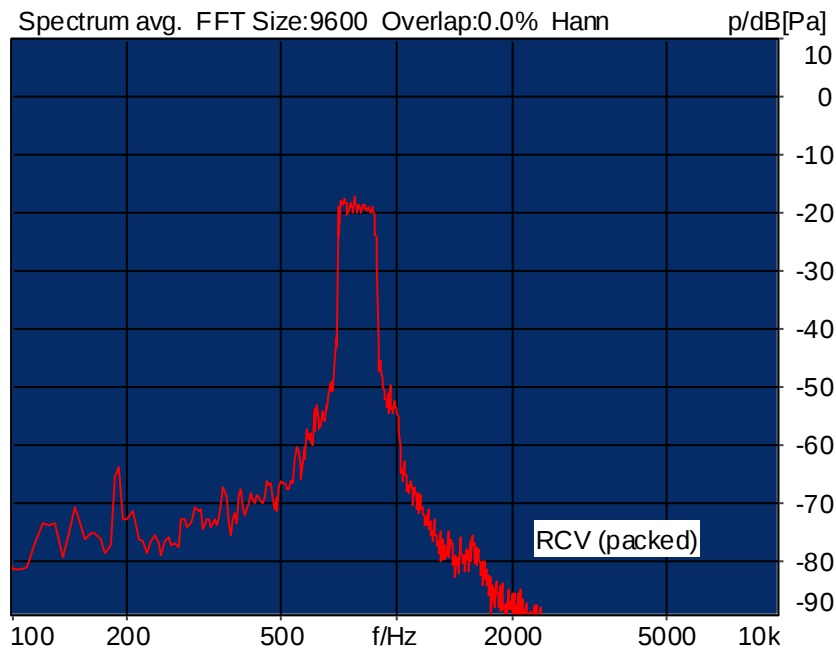
2026-02-14 上午 04:42 ACQUA 6.2.200

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): 35.19 dB (1.74%) Ok

Ok

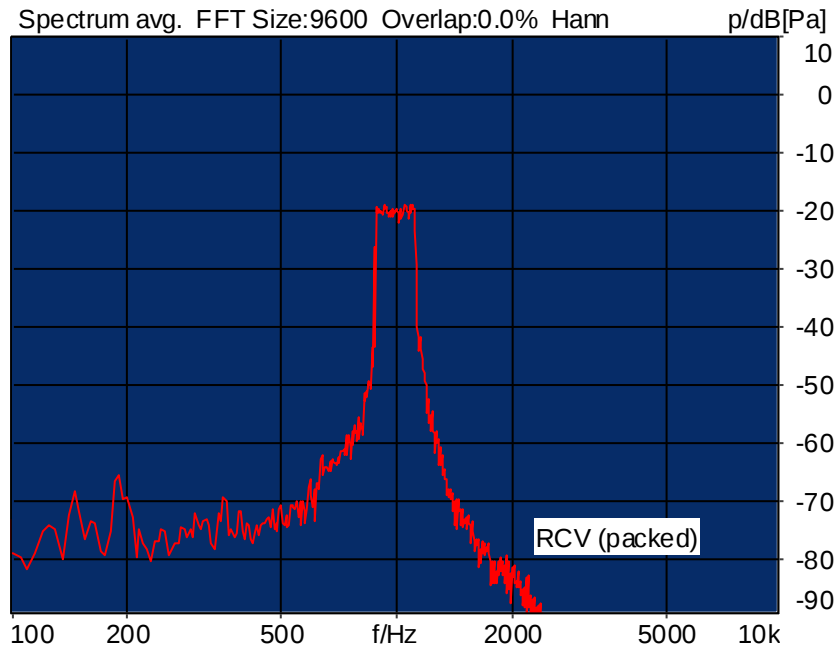
2026-02-14 上午 04:42 ACQUA 6.2.200

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): 32.31 dB (2.42%) Ok

Ok

2026-02-14 上午 04:43 ACQUA 6.2.200

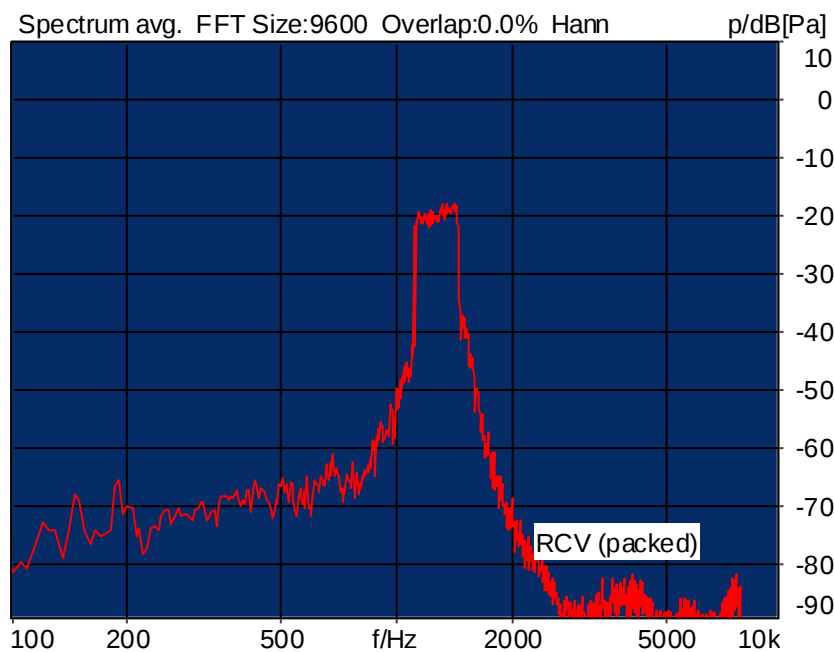
Limits

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): 23.01 dB (7.07%) Ok

Ok

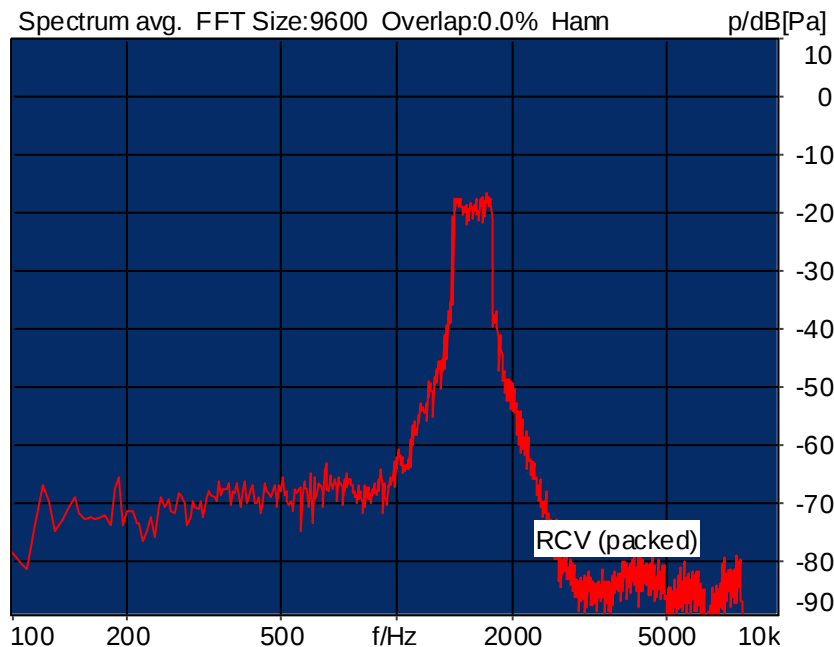
2026-02-14 上午 04:43 ACQUA 6.2.200

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): 25.36 dB (5.39%) Ok

Ok

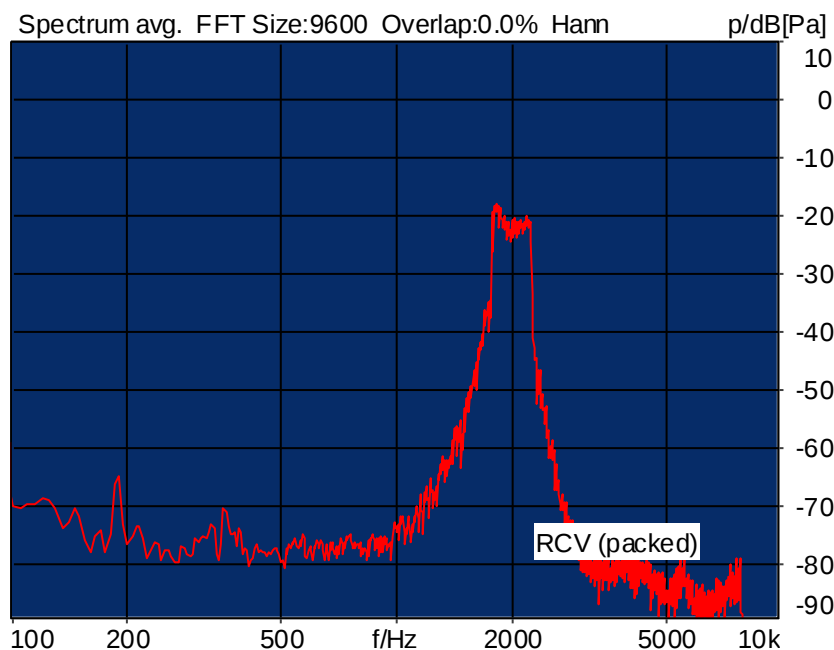
2026-02-14 上午 04:44 ACQUA 6.2.200

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): 21.58 dB (8.34%) Ok

Ok

2026-02-14 上午 04:44 ACQUA 6.2.200

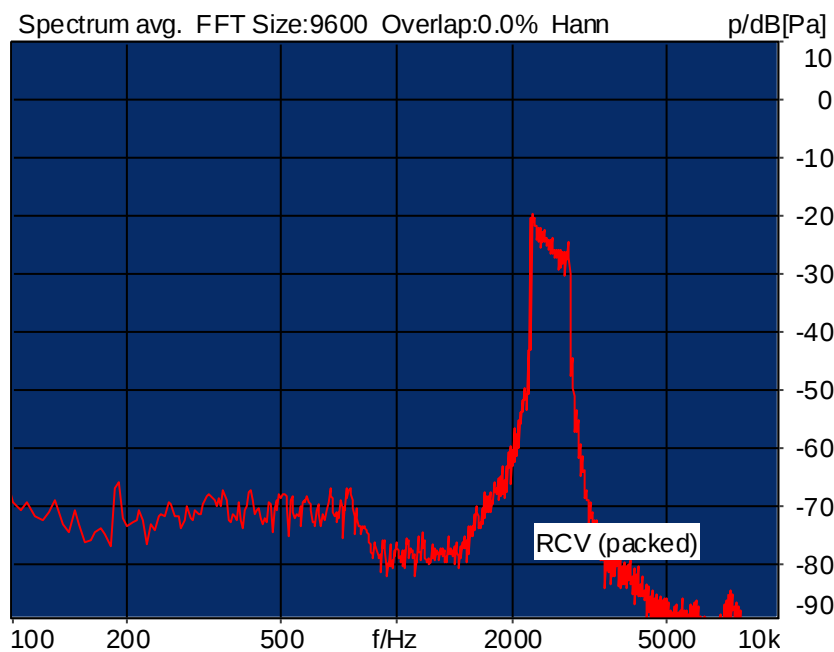
Limits

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): 29.63 dB (3.30%) Ok

Ok

2026-02-14 上午 04:45 ACQUA 6.2.200

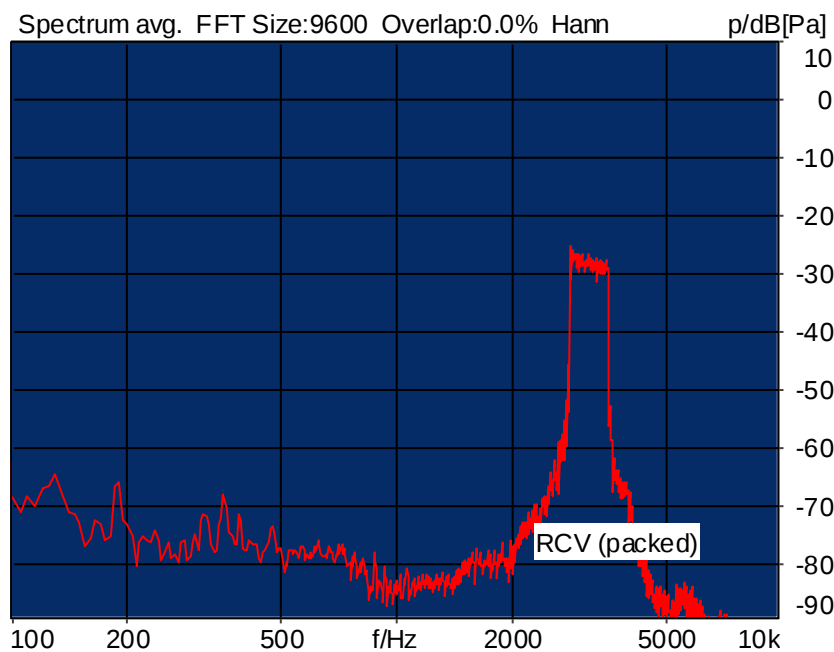
Limits

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): 32.25 dB (2.44%) Ok

Ok

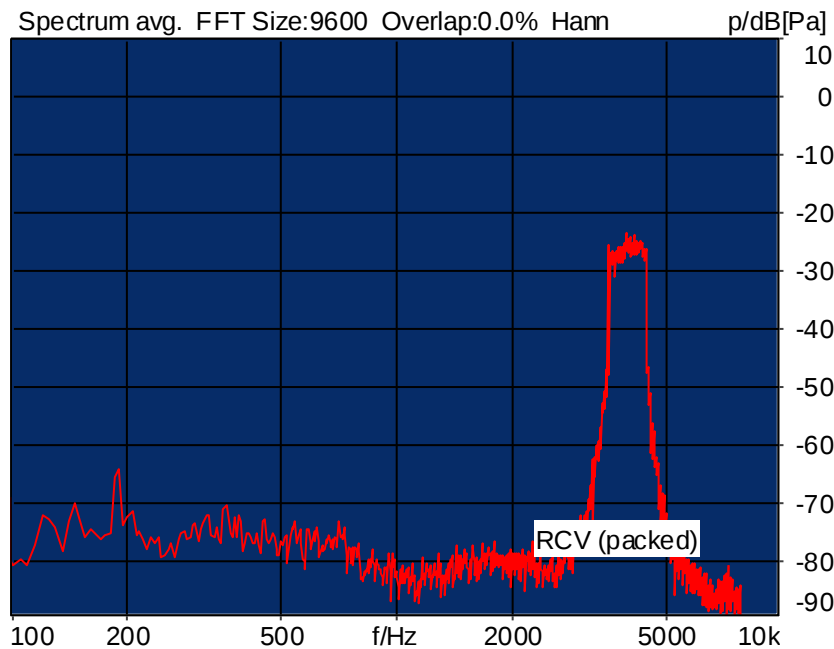
2026-02-14 上午 04:45 ACQUA 6.2.200

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): 29.88 dB (3.21%) Ok

Ok

2026-02-14 上午 04:46 ACQUA 6.2.200

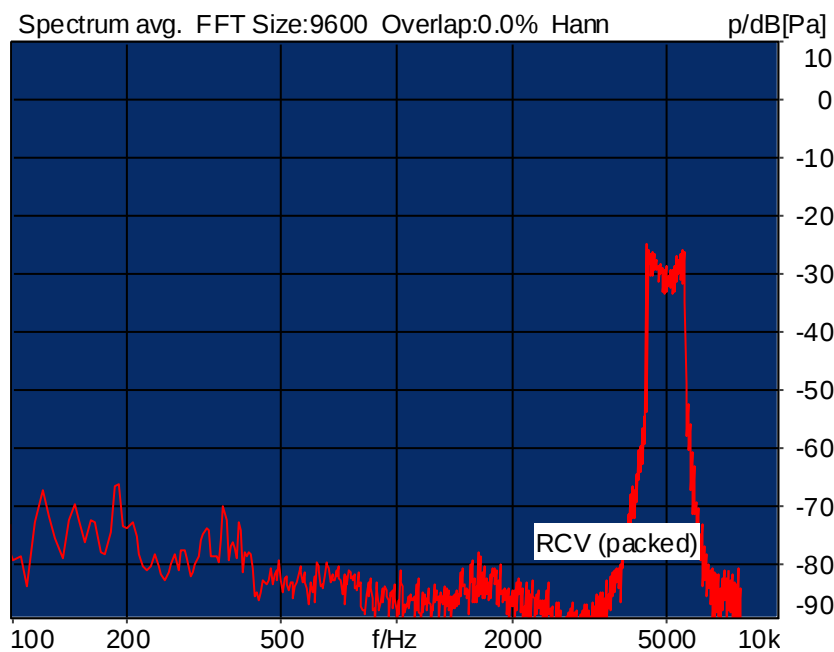
Limits

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): 32.44 dB (2.39%) Ok

Ok

2026-02-14 上午 04:46 ACQUA 6.2.200

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

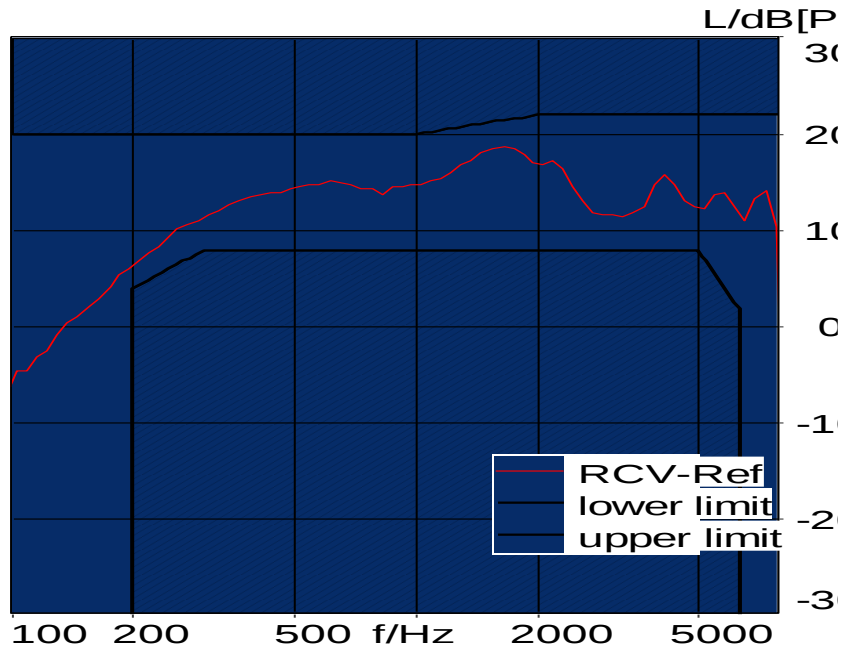
Region	Frequency	SDNR
1	250Hz	37.93 dB
2	315Hz	37.01 dB
3	400Hz	38.24 dB
4	500Hz	35.22 dB
5	630Hz	37.14 dB
6	800Hz	35.19 dB
7	1000Hz	32.31 dB
8	1250Hz	23.01 dB
9	1600Hz	25.36 dB
10	2000Hz	21.58 dB
11	2500Hz	29.63 dB
12	3150Hz	32.25 dB
13	4000Hz	29.88 dB
14	5000Hz	32.44 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.58dB at 2000Hz.

2026-02-14 上午 04:46 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance

2.64 dB at 1547.5 Hz Ok

Ok

2026-02-14 上午 04:47 ACQUA 6.2.200

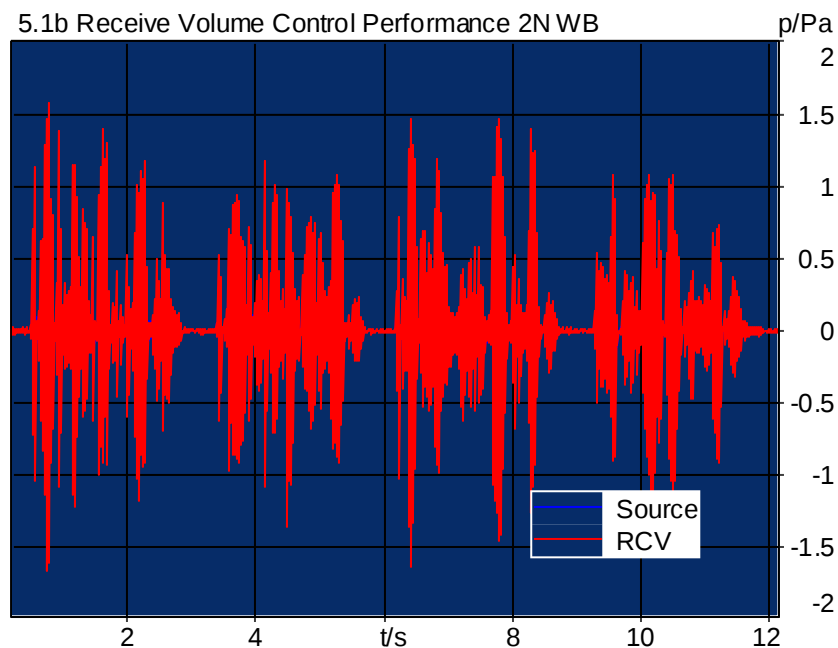
Limits

lower
Fit into tolerance

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	78.68 dB[SPL]	84.27%	Ok

Ok

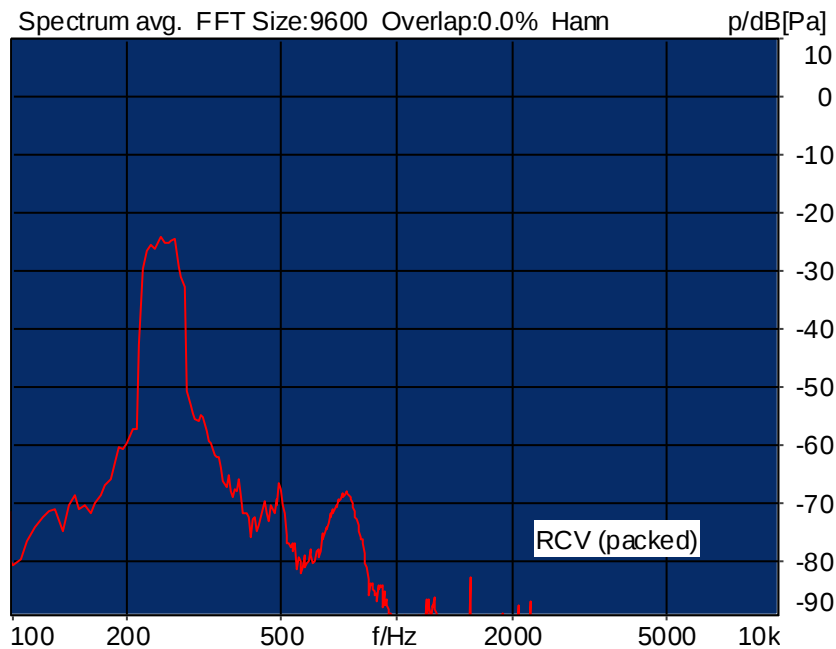
2026-02-14 上午 04:30 ACQUA 6.2.200

Limits

lower
76.00 dB[SPL]

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): 37.57 dB (1.32%) Ok

Ok

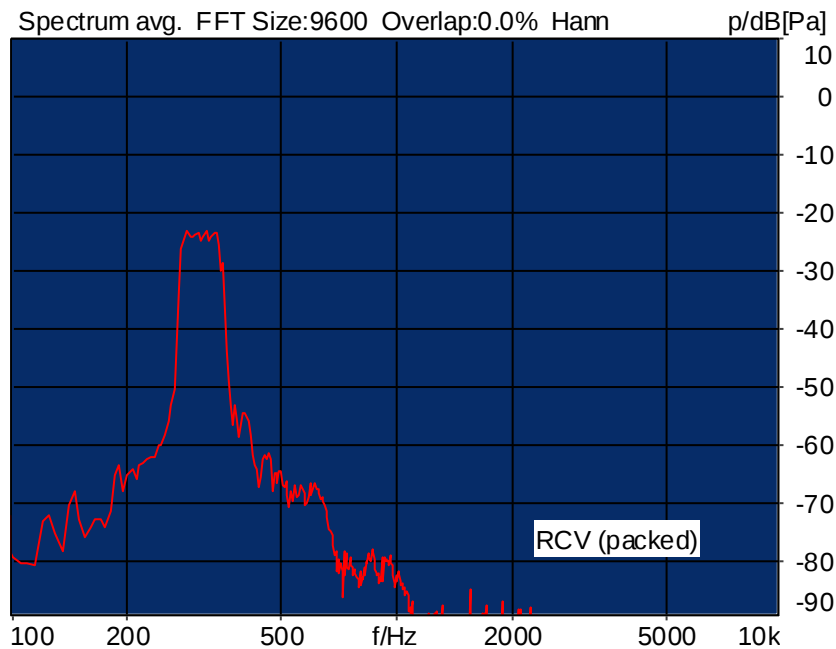
2026-02-14 上午 04:30 ACQUA 6.2.200

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): 37.00 dB (1.41%) Ok

Ok

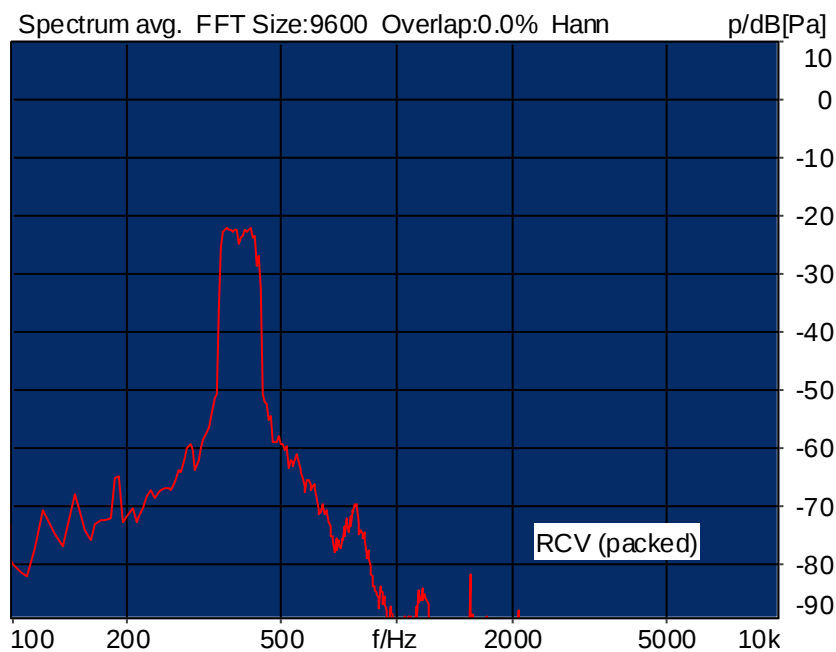
2026-02-14 上午 04:31 ACQUA 6.2.200

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): 38.76 dB (1.15%) Ok

Ok

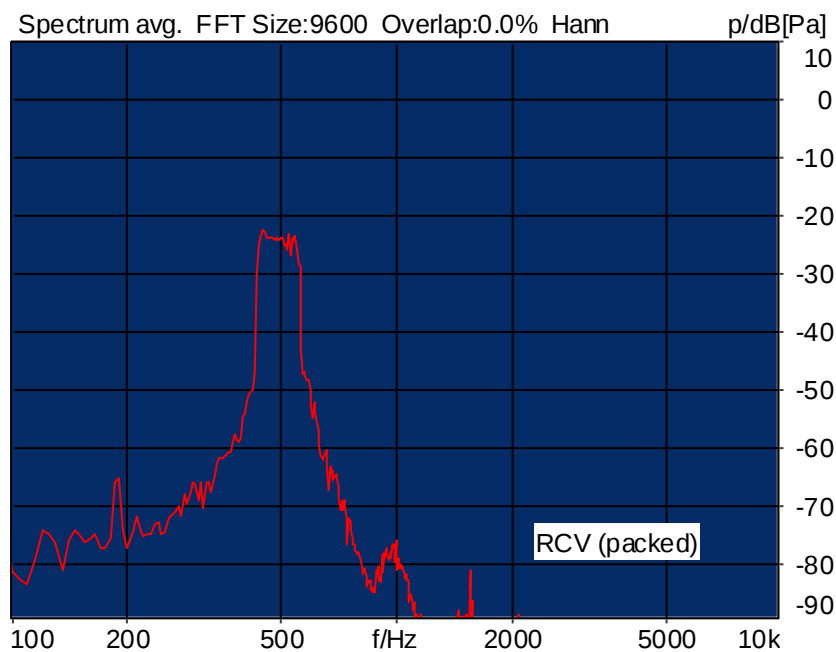
2026-02-14 上午 04:31 ACQUA 6.2.200

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): 35.34 dB (1.71%) Ok

Ok

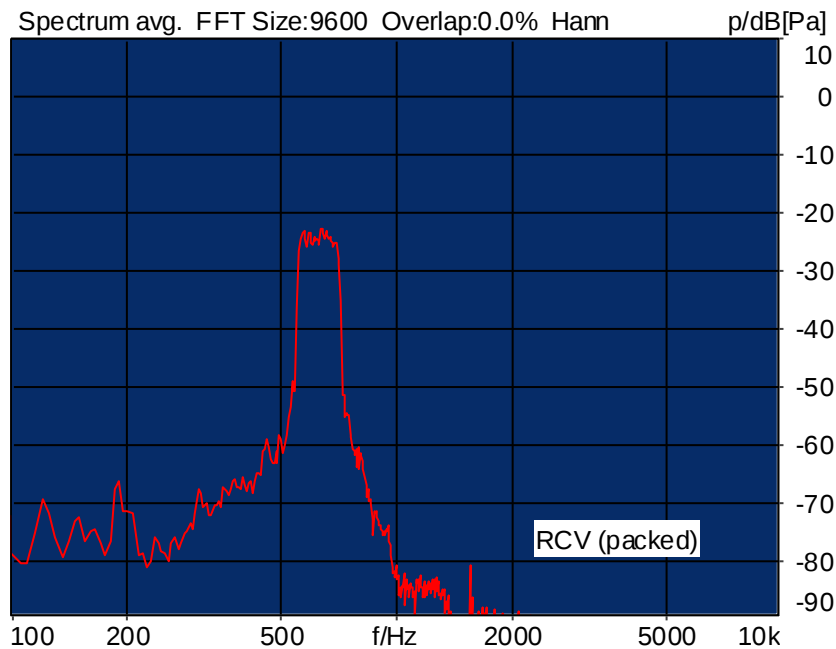
2026-02-14 上午 04:32 ACQUA 6.2.200

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): 37.37 dB (1.35%) Ok

Ok

2026-02-14 上午 04:32 ACQUA 6.2.200

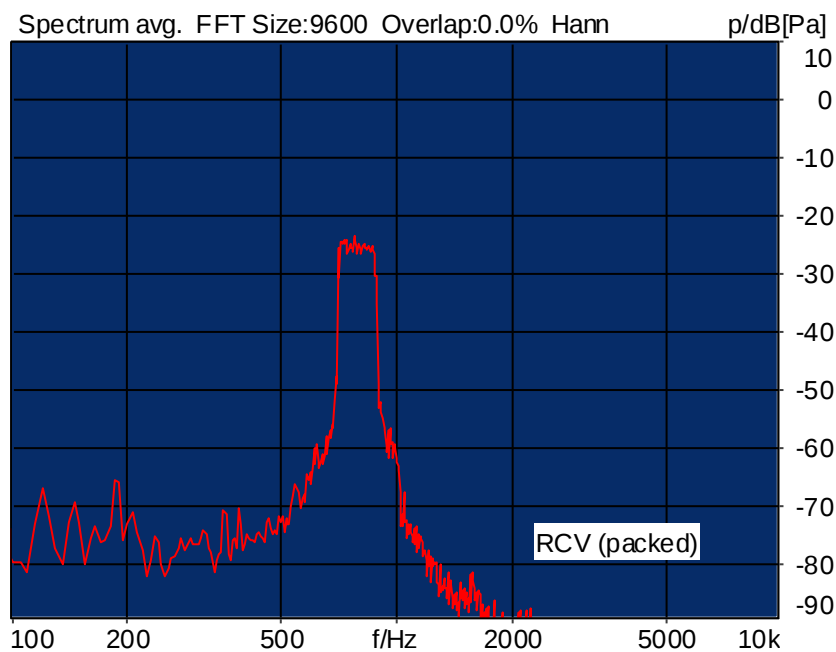
Limits

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): 35.31 dB (1.72%) Ok

Ok

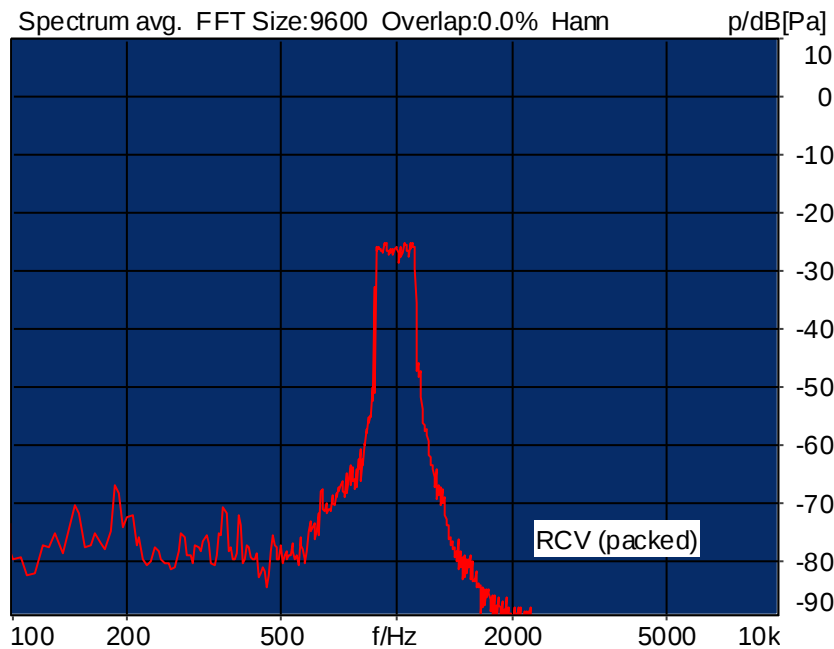
2026-02-14 上午 04:33 ACQUA 6.2.200

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): 33.29 dB (2.16%) Ok

Ok

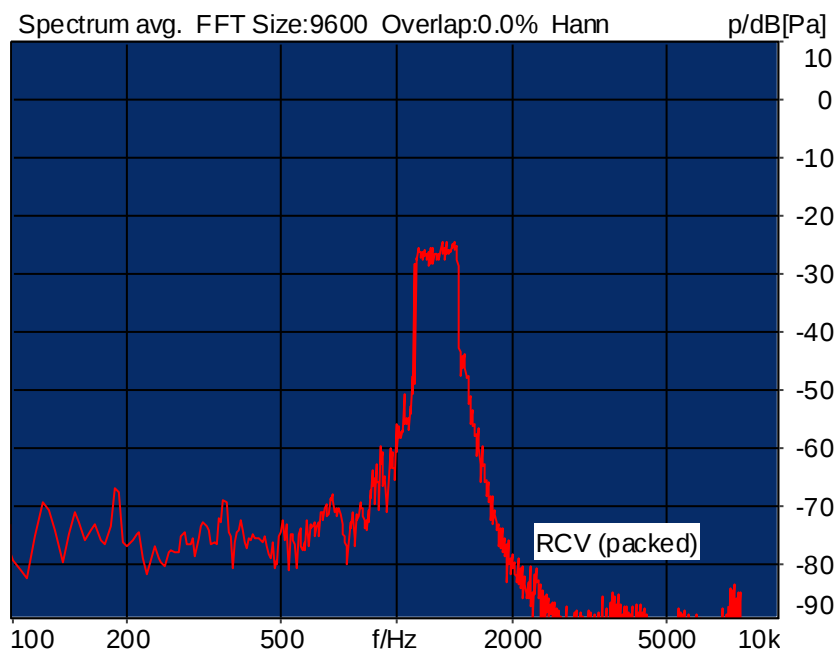
2026-02-14 上午 04:33 ACQUA 6.2.200

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): 23.47 dB (6.71%) Ok

Ok

2026-02-14 上午 04:34 ACQUA 6.2.200

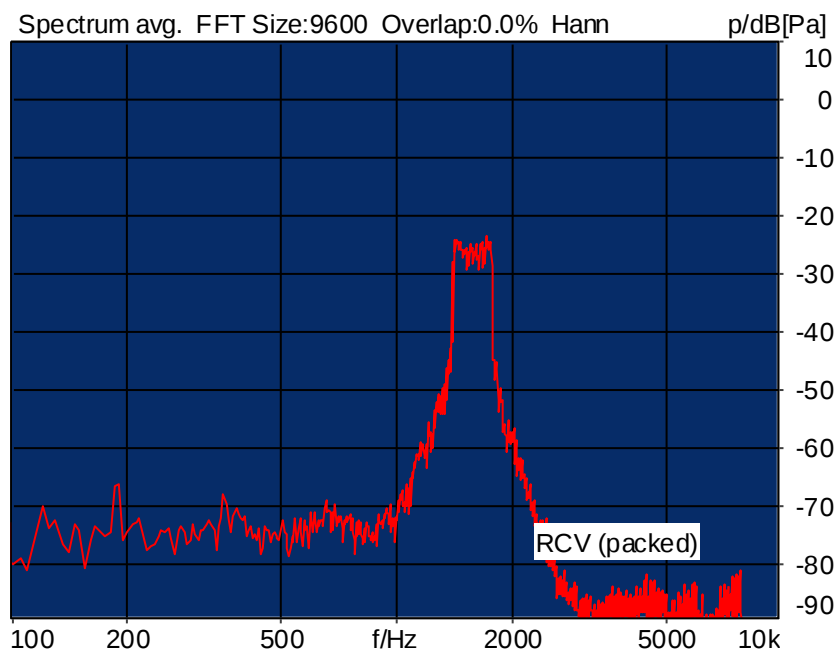
Limits

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): 25.67 dB (5.21%) Ok

Ok

2026-02-14 上午 04:34 ACQUA 6.2.200

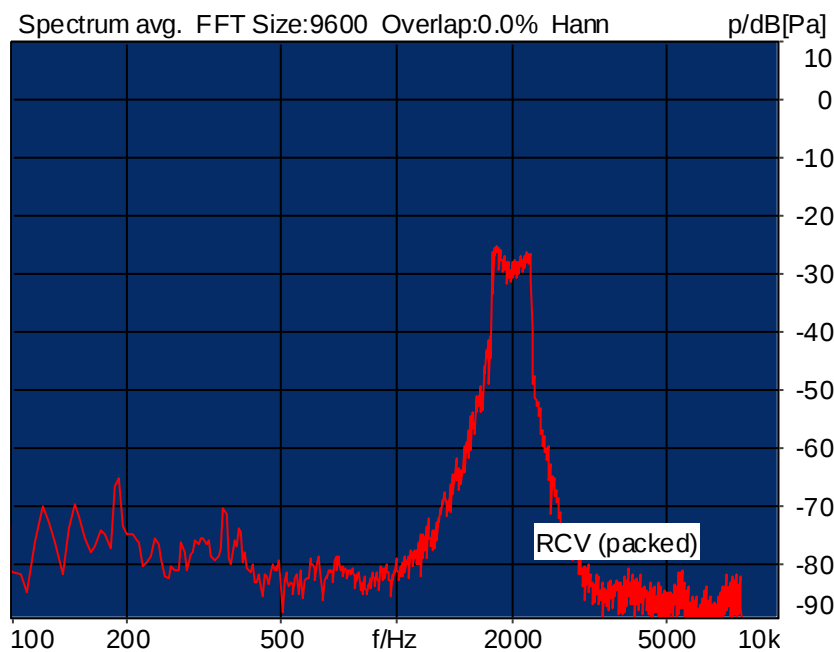
Limits

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



Ok

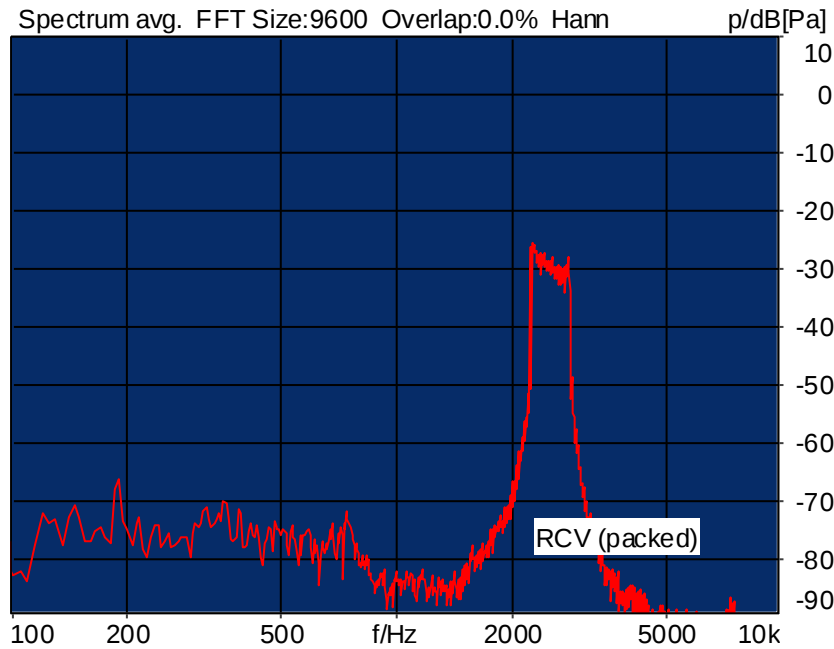
2026-02-14 上午 04:35 ACQUA 6.2.200

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): 30.17 dB (3.10%) Ok

Ok

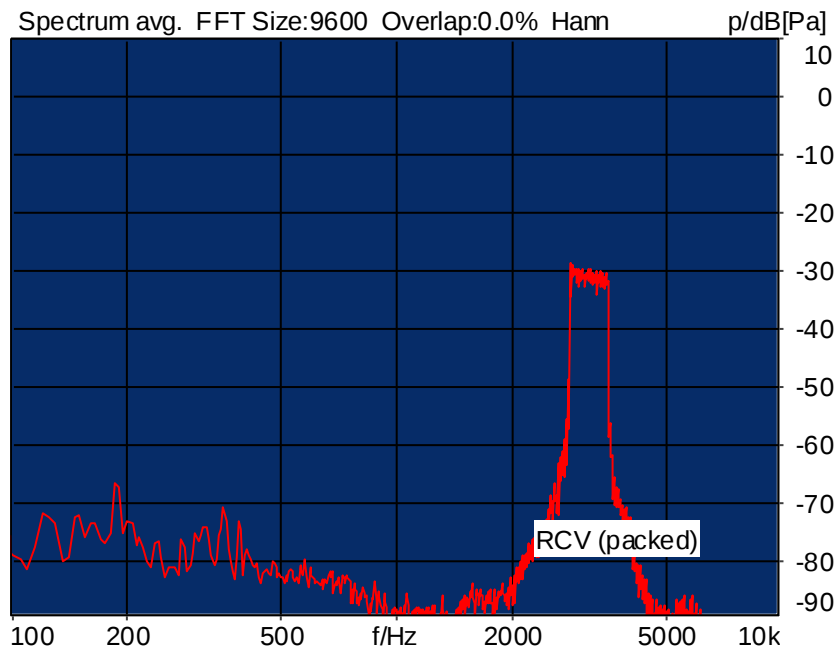
2026-02-14 上午 04:35 ACQUA 6.2.200

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): 33.23 dB (2.18%) Ok

Ok

2026-02-14 上午 04:36 ACQUA 6.2.200

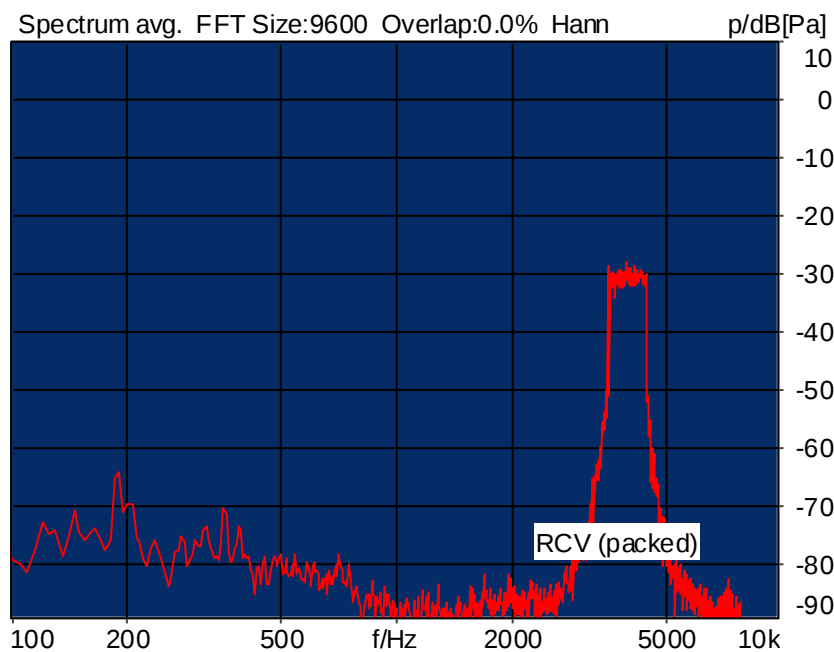
Limits

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



Ok

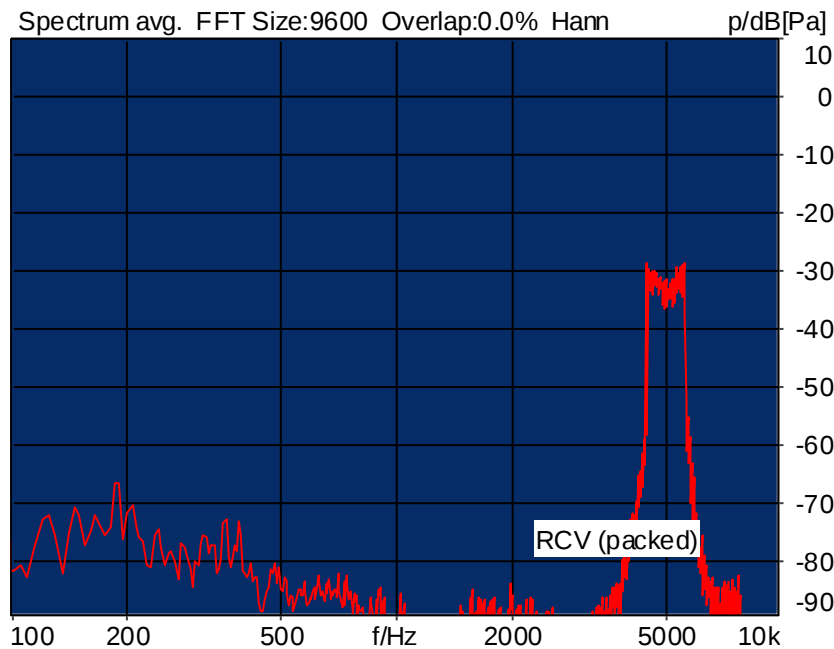
2026-02-14 上午 04:36 ACQUA 6.2.200

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): 32.81 dB (2.29%) Ok

Ok

2026-02-14 上午 04:37 ACQUA 6.2.200

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

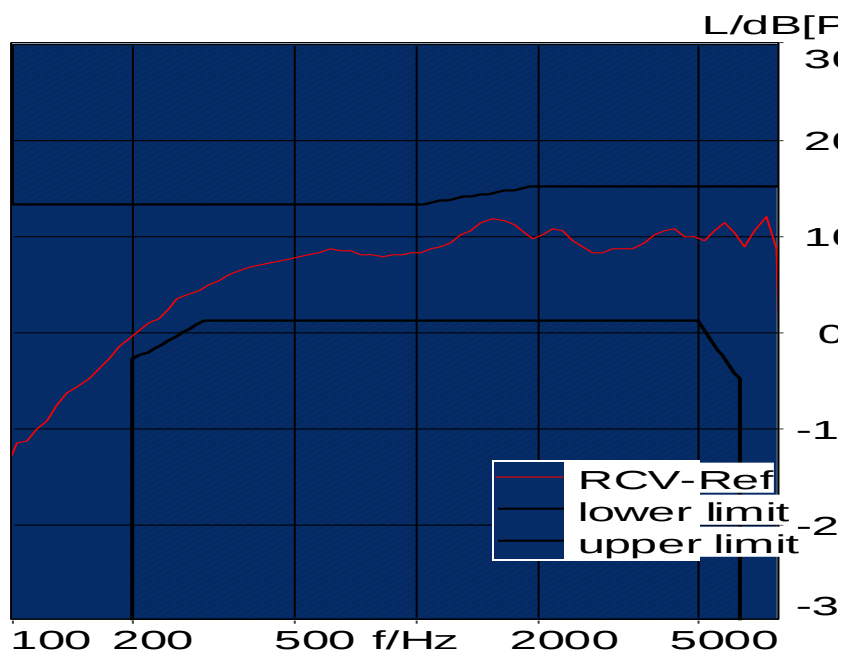
Region	Frequency	SDNR
1	250Hz	37.57 dB
2	315Hz	37.00 dB
3	400Hz	38.76 dB
4	500Hz	35.34 dB
5	630Hz	37.37 dB
6	800Hz	35.31 dB
7	1000Hz	33.29 dB
8	1250Hz	23.47 dB
9	1600Hz	25.67 dB
10	2000Hz	22.09 dB
11	2500Hz	30.17 dB
12	3150Hz	33.23 dB
13	4000Hz	29.30 dB
14	5000Hz	32.81 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 22.09dB at 2000Hz.

2026-02-14 上午 04:37 ACQUA

5.3 Frequency Response 2N FF

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



Absolute minimal distance

2.69 dB at 205.7 Hz Ok

Ok

2026-02-14 上午 04:37 ACQUA 6.2.200

Limits

lower
Fit into tolerance

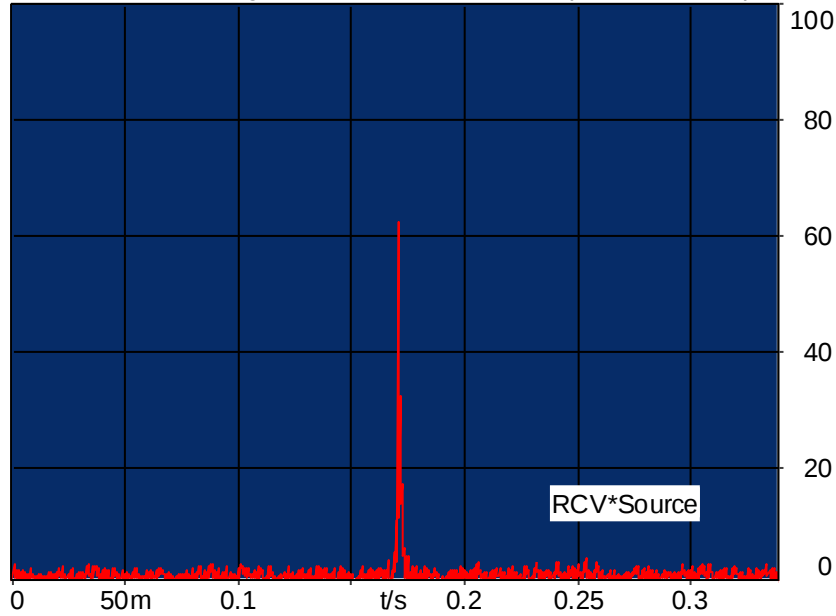
#2 NR n12 EVS NB 24.4kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	171.1
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	86.79
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.03
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.84
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.79
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.93
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.31
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.00
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.55
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.96
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.71
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.70
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 1600Hz)	21.00
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	1.45
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	79.88
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.06
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.42
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.03
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.25
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.10
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.59
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.28
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.27
5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.12
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.09
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 1000Hz)	20.25
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1360.9 Hz	1.74

Overall Receive Delay NB

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

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



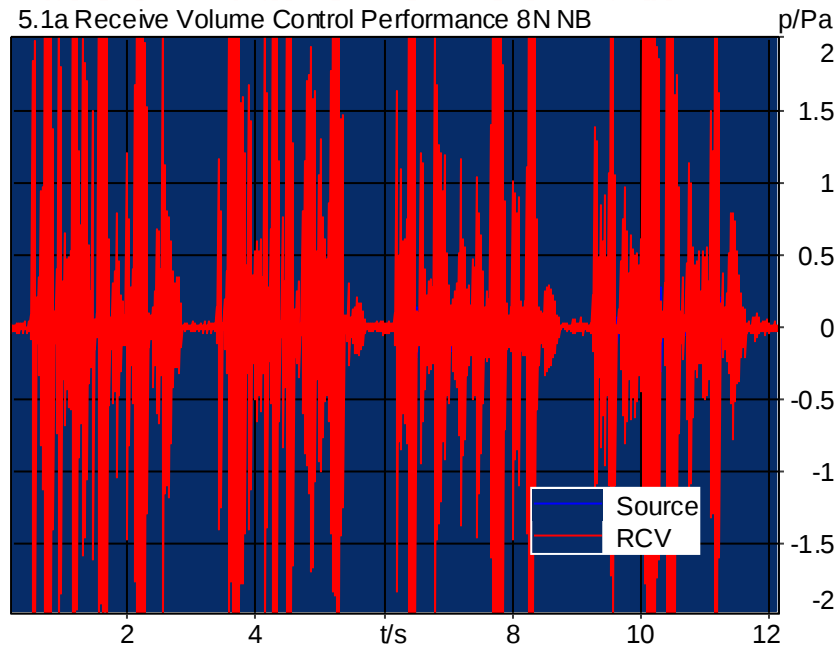
Channel	Delay	Correlation
RCV*Source	171.1 ms	62.49 %

2026-02-11 上午 11:34 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	86.79 dB[SPL]	80.60%	Ok

Ok

2026-02-11 上午 11:34 ACQUA 6.1.110

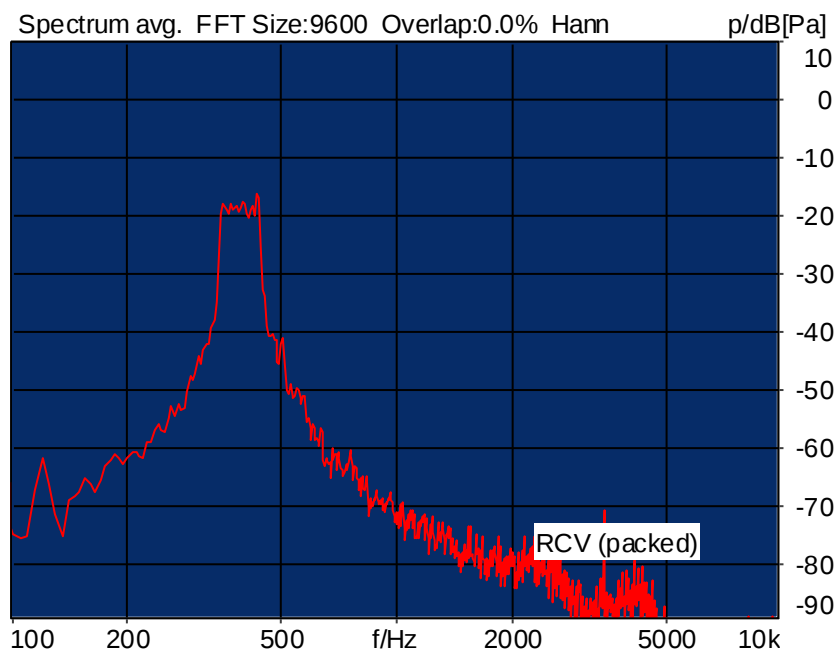
Limits

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): 30.03 dB (3.15%) Ok

Ok

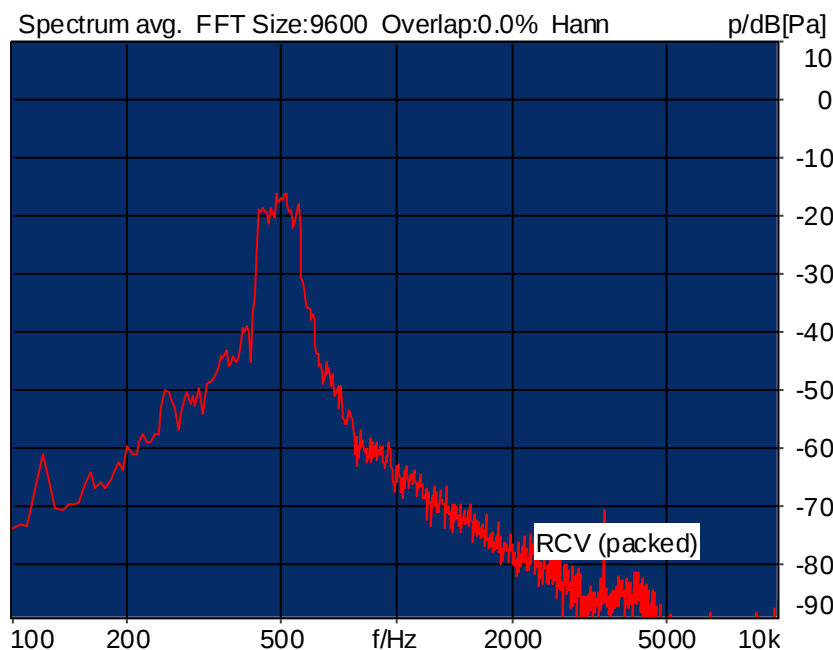
2026-02-11 上午 11:35 ACQUA 6.1.110

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): 25.84 dB (5.11%) Ok

Ok

2026-02-11 上午 11:36 ACQUA 6.1.110

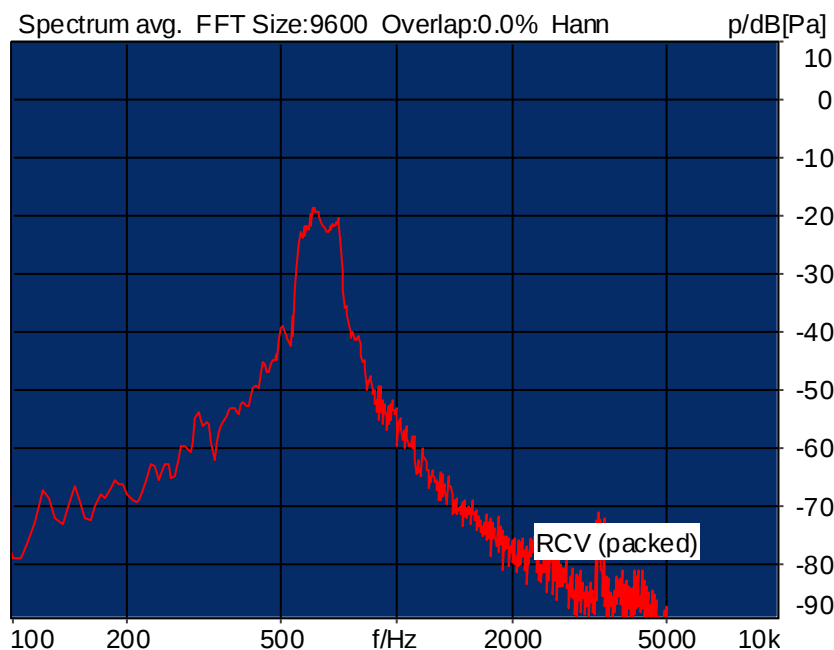
Limits

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): 21.79 dB (8.14%) Ok

Ok

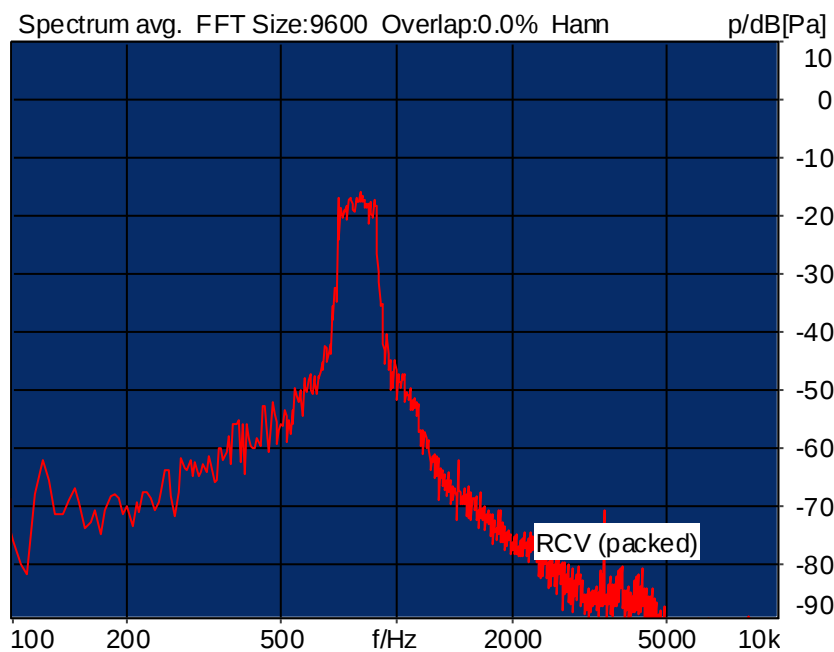
2026-02-11 上午 11:36 ACQUA 6.1.110

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): 26.93 dB (4.50%) Ok

Ok

2026-02-11 上午 11:37 ACQUA 6.1.110

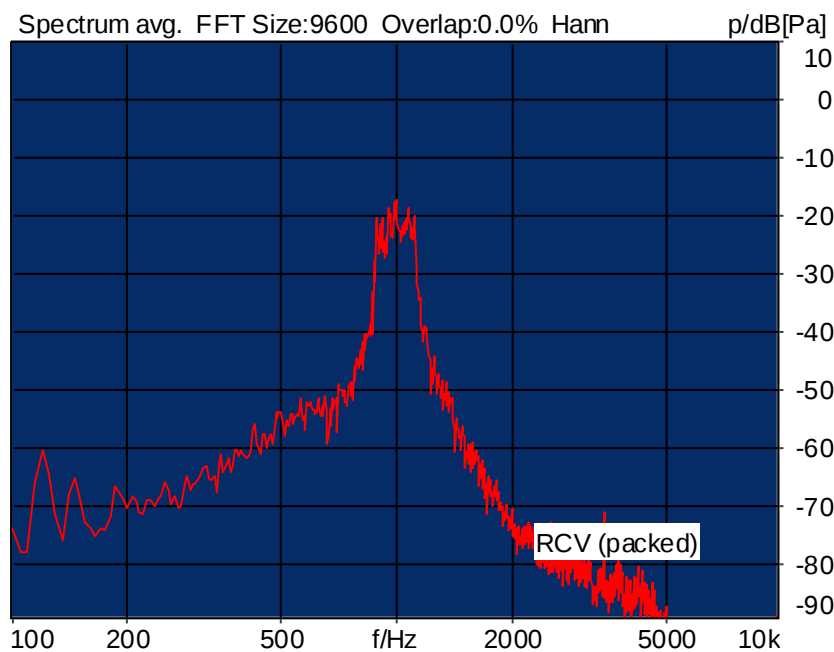
Limits

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): 21.31 dB (8.60%) Ok

Ok

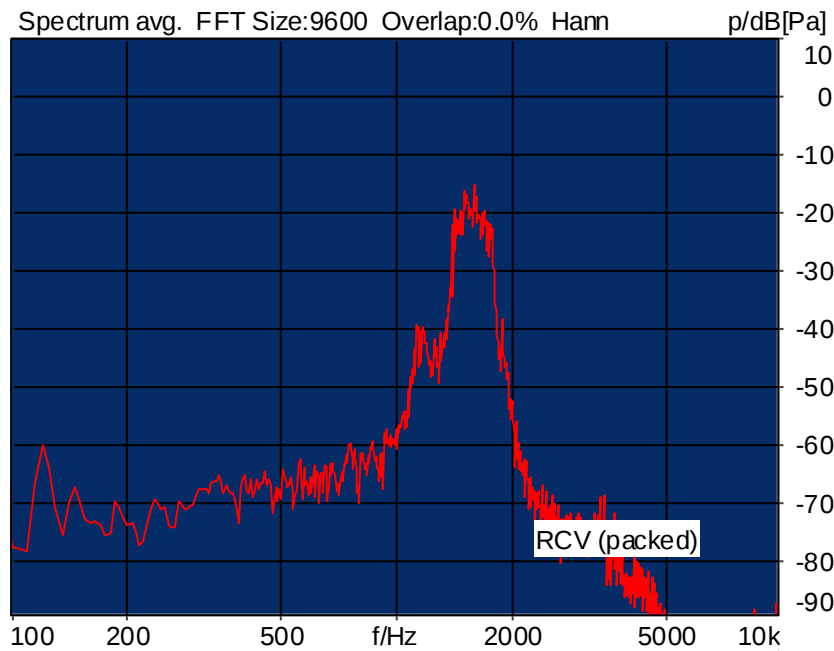
2026-02-11 上午 11:37 ACQUA 6.1.110

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): 21.00 dB (8.91%) Ok

Ok

2026-02-11 上午 11:38 ACQUA 6.1.110

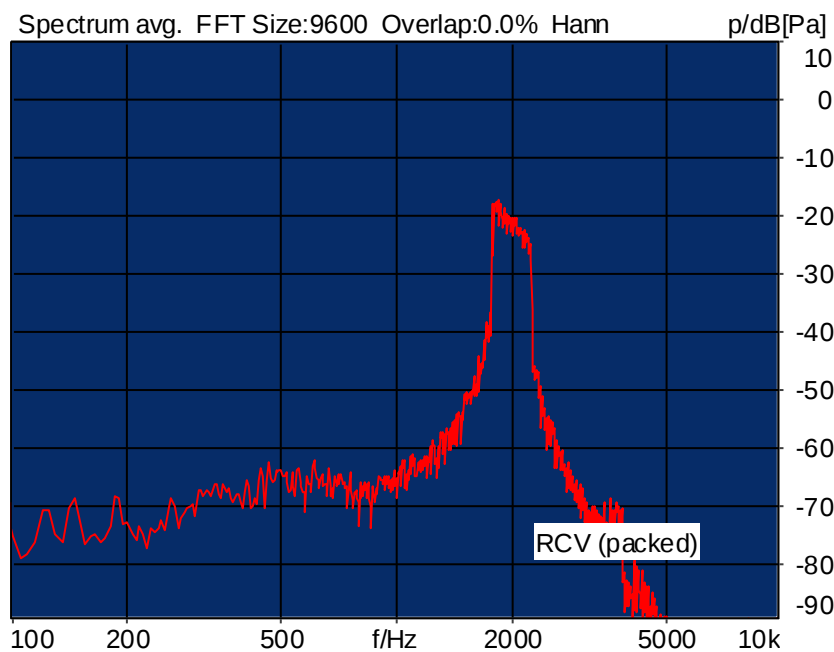
Limits

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): 24.55 dB (5.92%) Ok

Ok

2026-02-11 上午 11:39 ACQUA 6.1.110

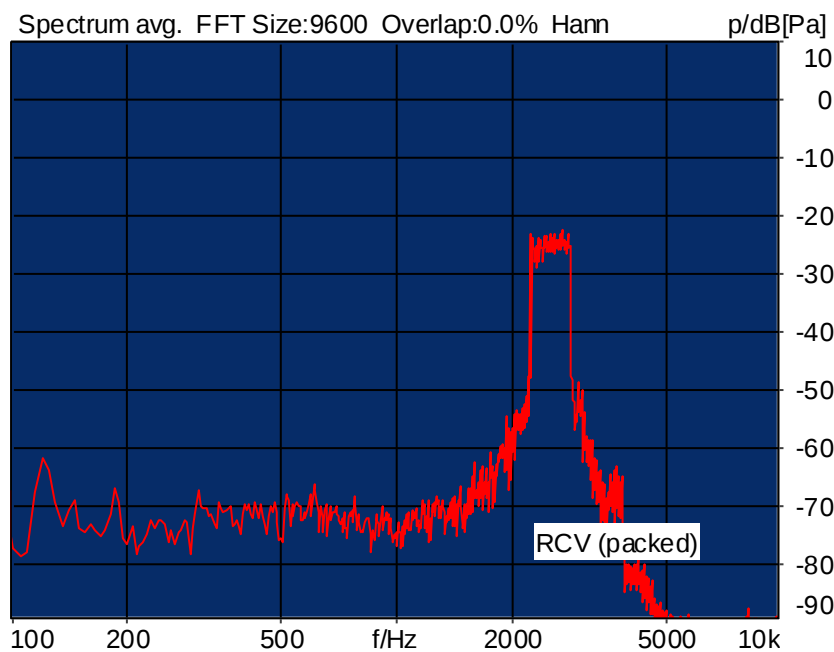
Limits

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): 27.96 dB (4.00%) Ok

Ok

2026-02-11 上午 11:39 ACQUA 6.1.110

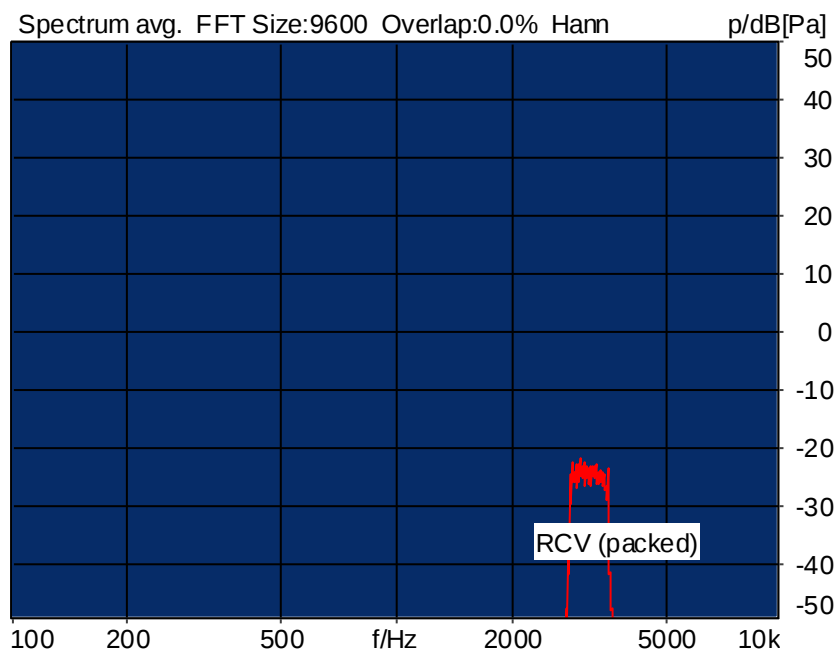
Limits

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): 27.71 dB (4.11%) Ok

Ok

2026-02-11 上午 11:40 ACQUA 6.1.110

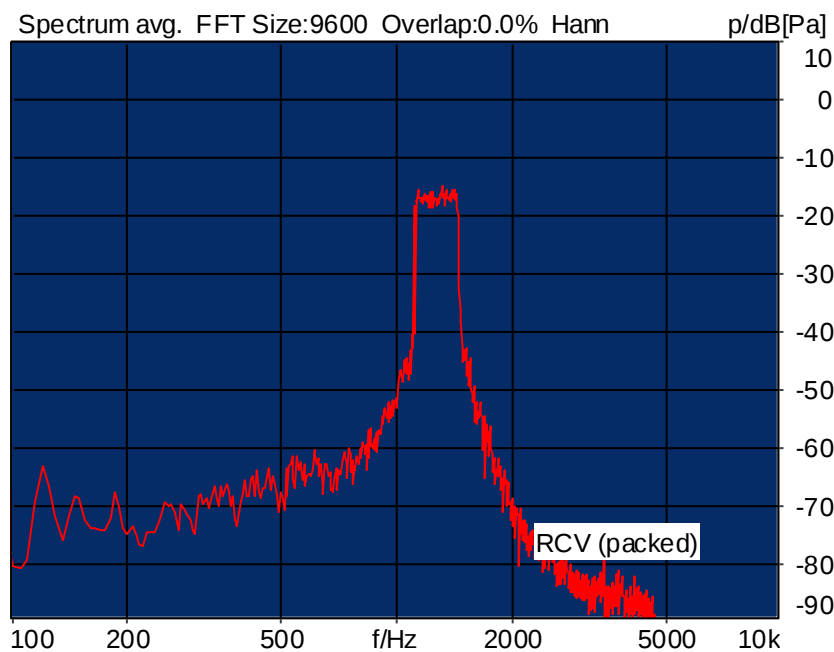
Limits

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): 26.70 dB (4.62%) Ok

Ok

2026-02-11 上午 11:43 ACQUA 6.1.110

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	30.03 dB
2	500Hz	25.84 dB
3	630Hz	21.79 dB
4	800Hz	26.93 dB
5	1000Hz	21.31 dB
6	1600Hz	21.00 dB
7	2000Hz	24.55 dB
8	2500Hz	27.96 dB
9	3150Hz	27.71 dB
10	1250Hz	26.70 dB

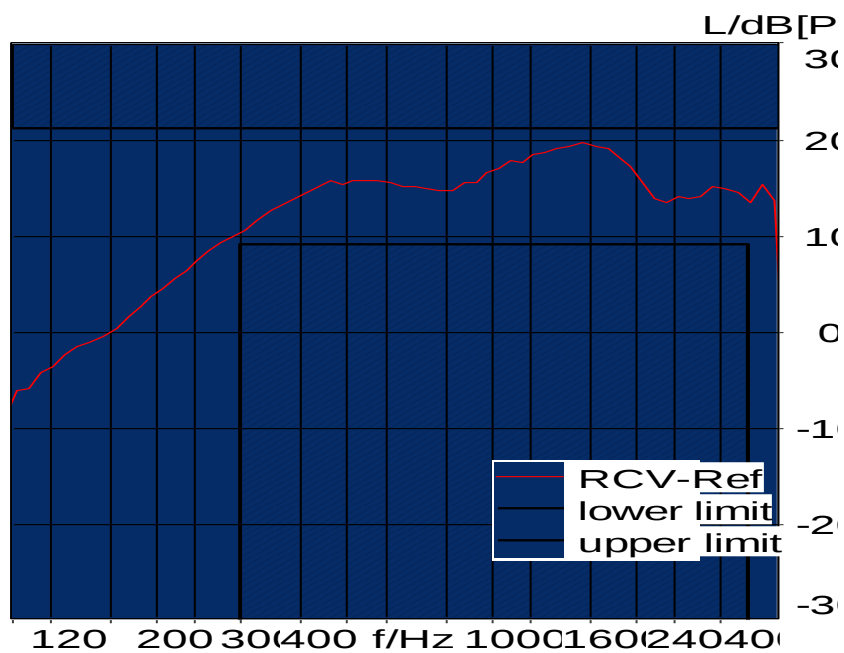
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.00dB at 1600Hz.

2026-02-11 上午 11:43 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

1.45 dB at 1547.5 Hz Ok

Ok

2026-02-11 上午 11:44 ACQUA 6.1.110

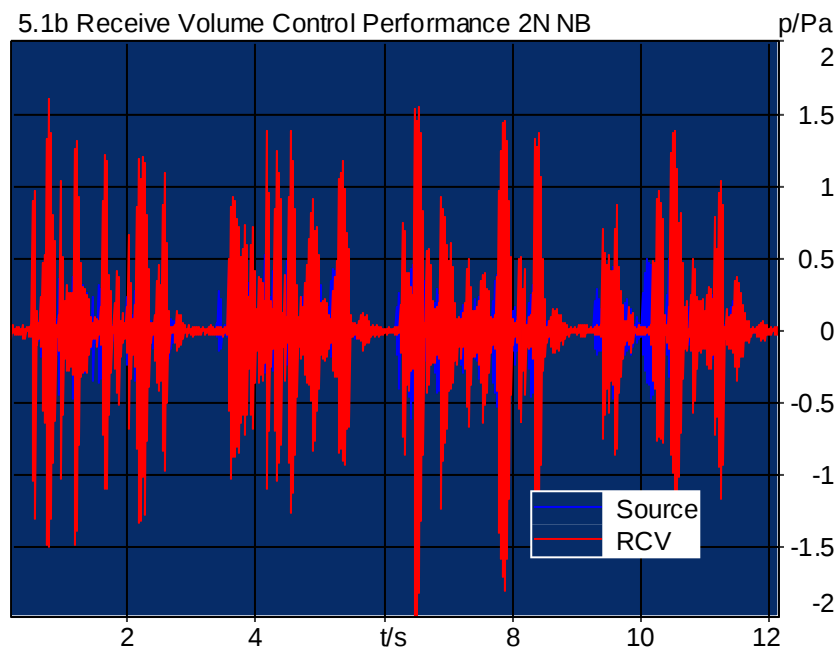
Limits

lower
Fit into tolerance

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	79.88 dB[SPL]	76.99%	Ok

Ok

2026-02-11 上午 11:45 ACQUA 6.1.110

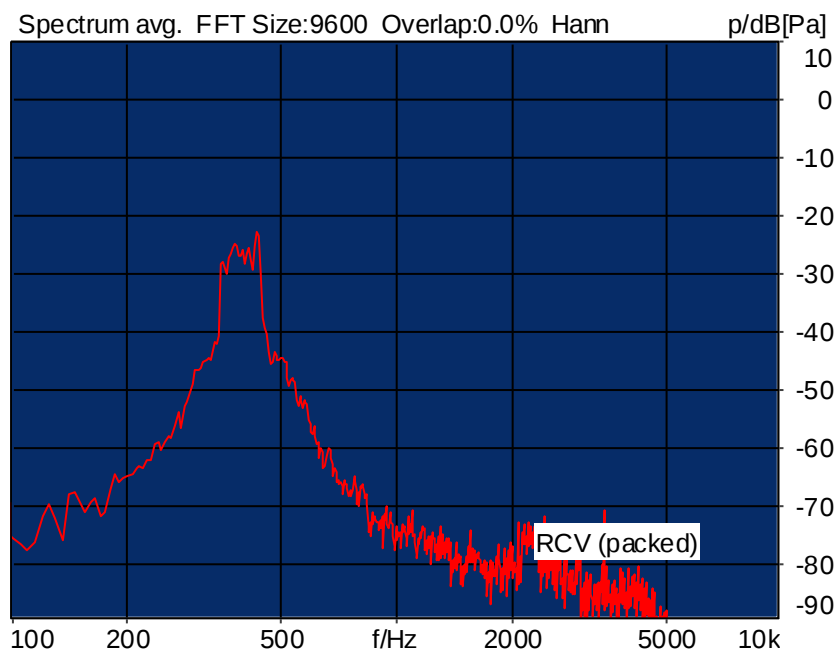
Limits

lower
76.00 dB[SPL]



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): 23.06 dB (7.03%) Ok

Ok

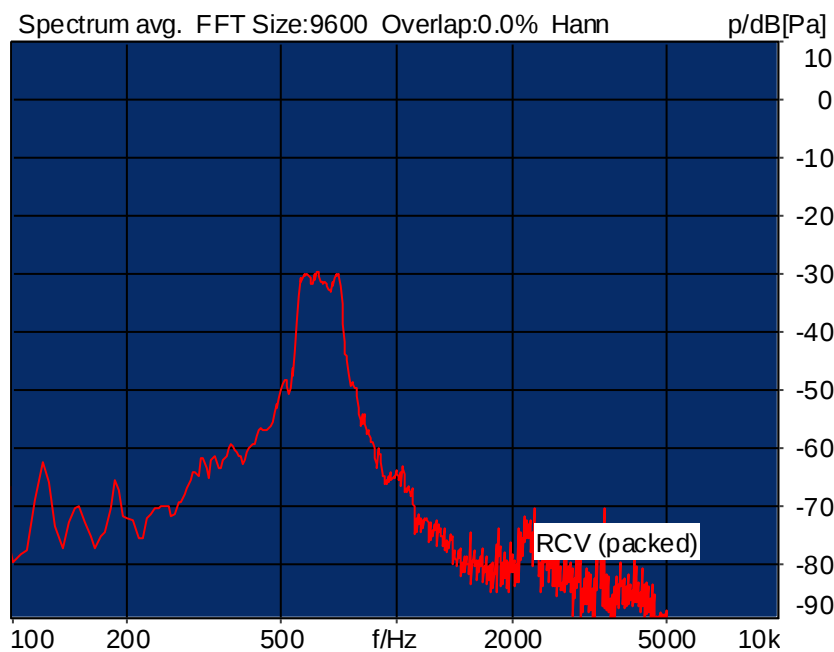
2026-02-11 上午 11:45 ACQUA 6.1.110

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): 21.42 dB (8.49%) Ok

Ok

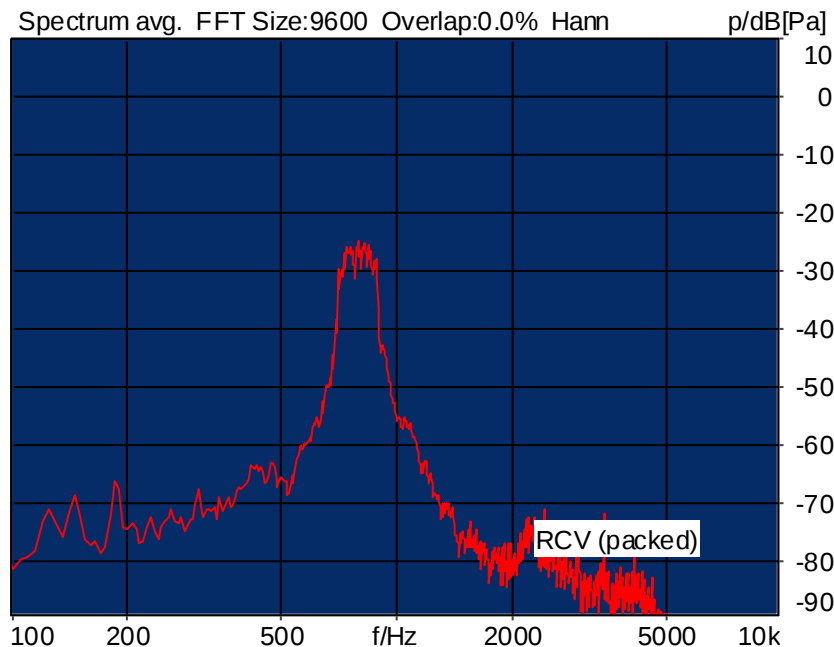
2026-02-11 上午 11:46 ACQUA 6.1.110

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): 23.03 dB (7.05%) Ok

Ok

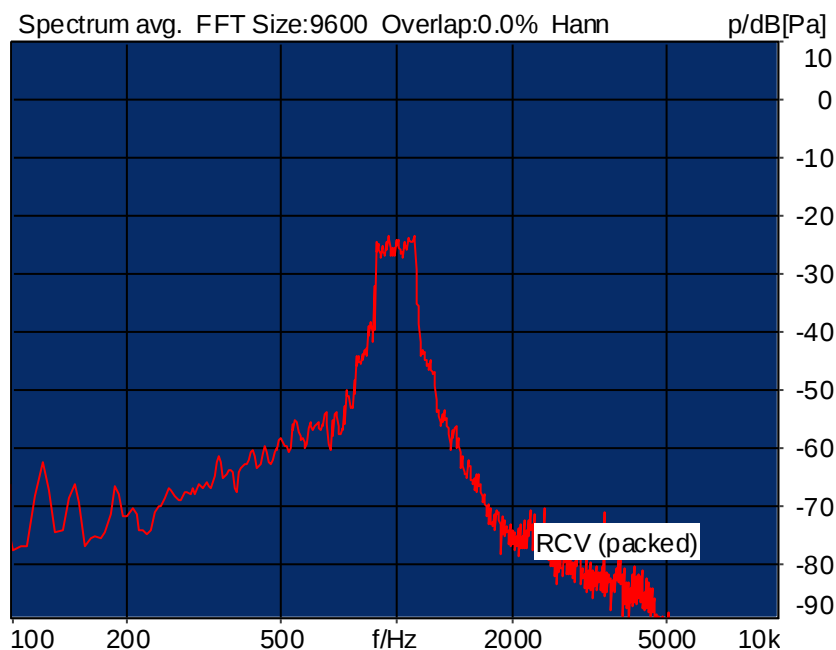
2026-02-11 上午 11:47 ACQUA 6.1.110

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): 20.25 dB (9.71%) Ok

Ok

2026-02-11 上午 11:47 ACQUA 6.1.110

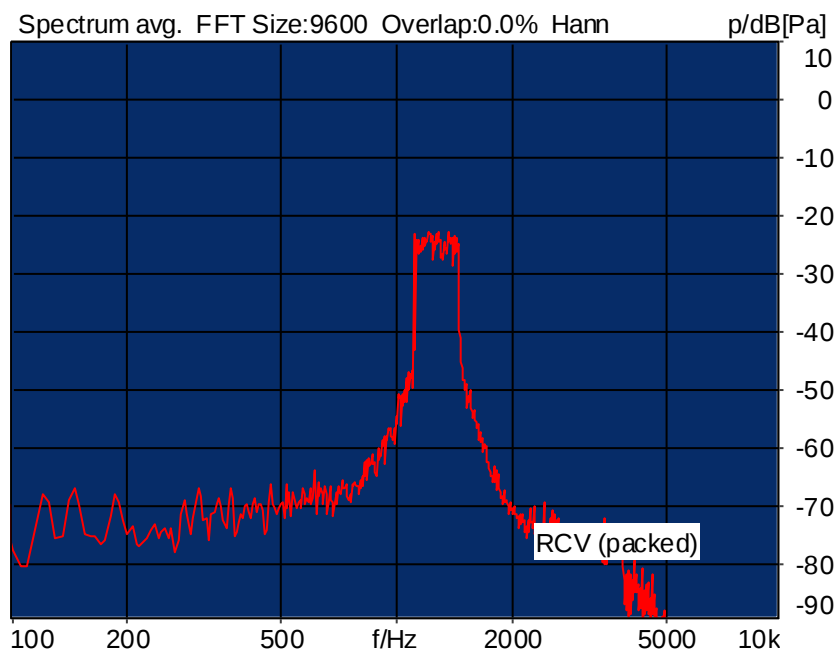
Limits

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): 24.10 dB (6.24%) Ok

Ok

2026-02-11 上午 11:48 ACQUA 6.1.110

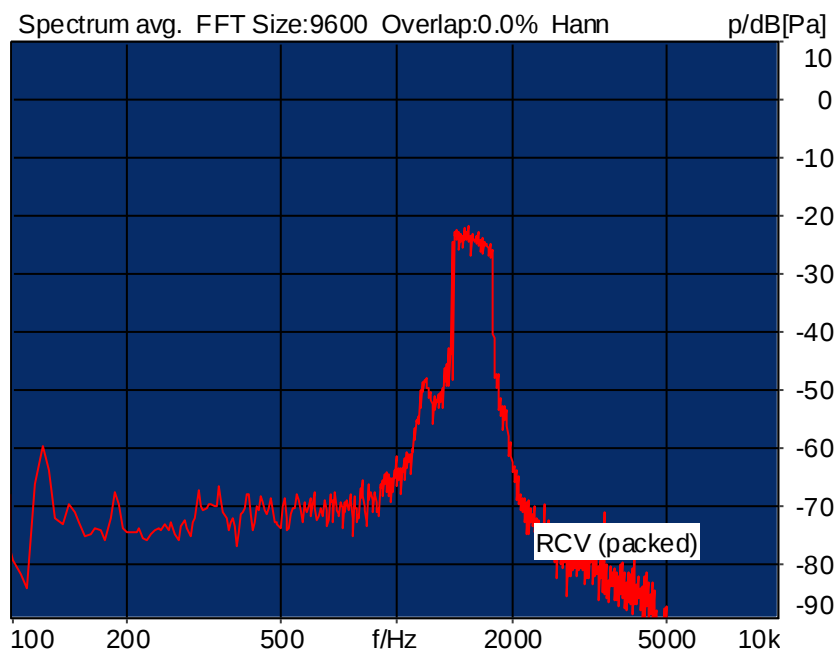
Limits

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): 25.59 dB (5.25%) Ok

Ok

2026-02-11 上午 11:49 ACQUA 6.1.110

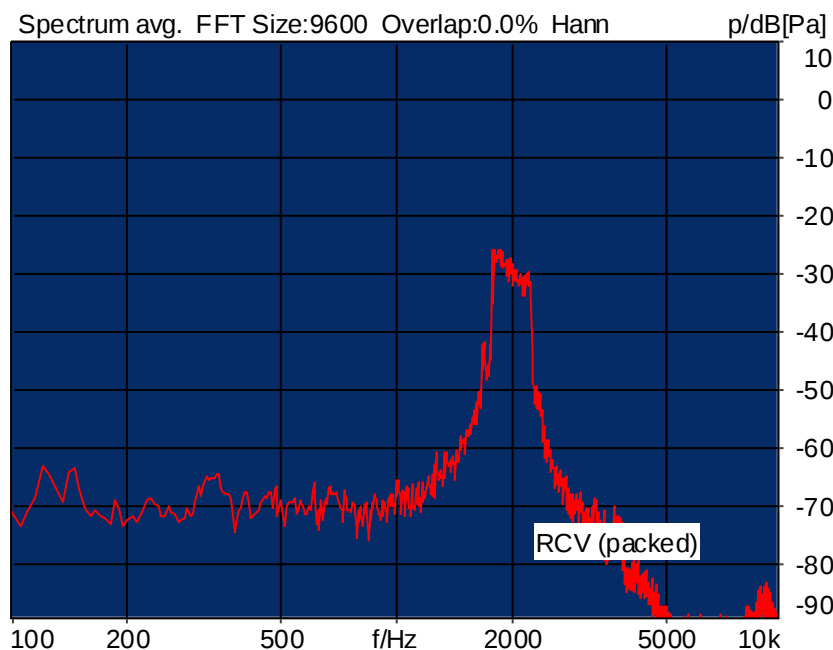
Limits

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): 20.28 dB (9.69%) Ok

Ok

2026-02-11 上午 11:49 ACQUA 6.1.110

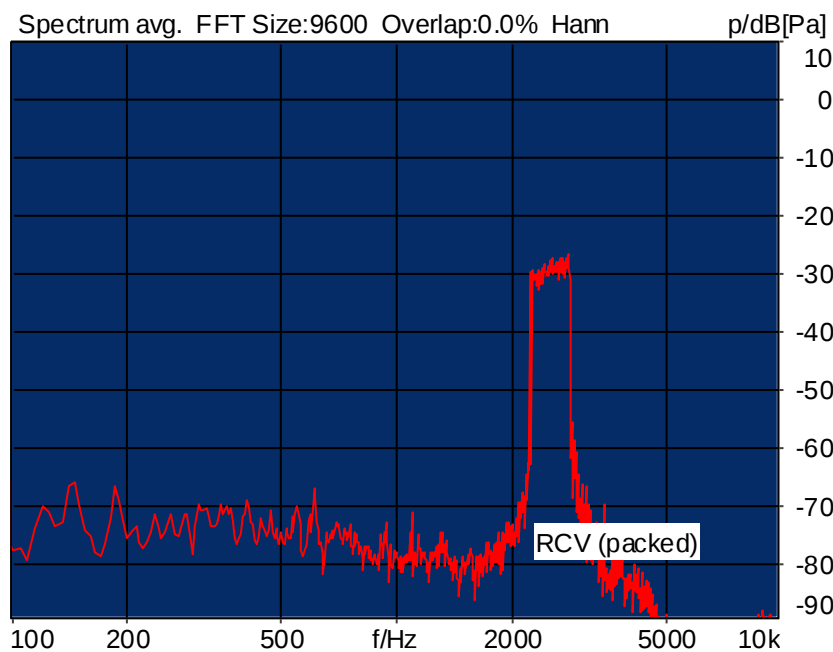
Limits

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): 36.27 dB (1.54%) Ok

Ok

2026-02-11 上午 11:50 ACQUA 6.1.110

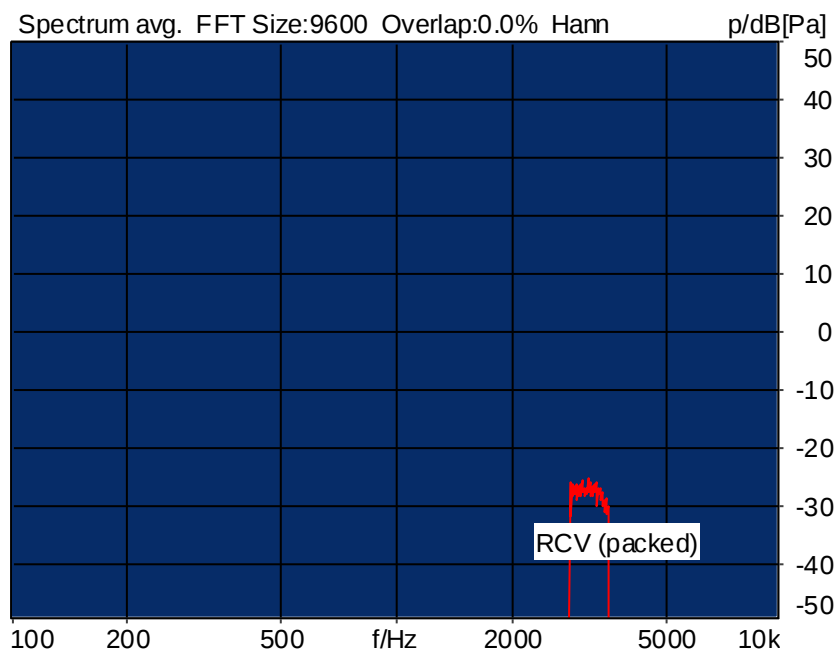
Limits

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): 42.12 dB (0.78%) Ok

Ok

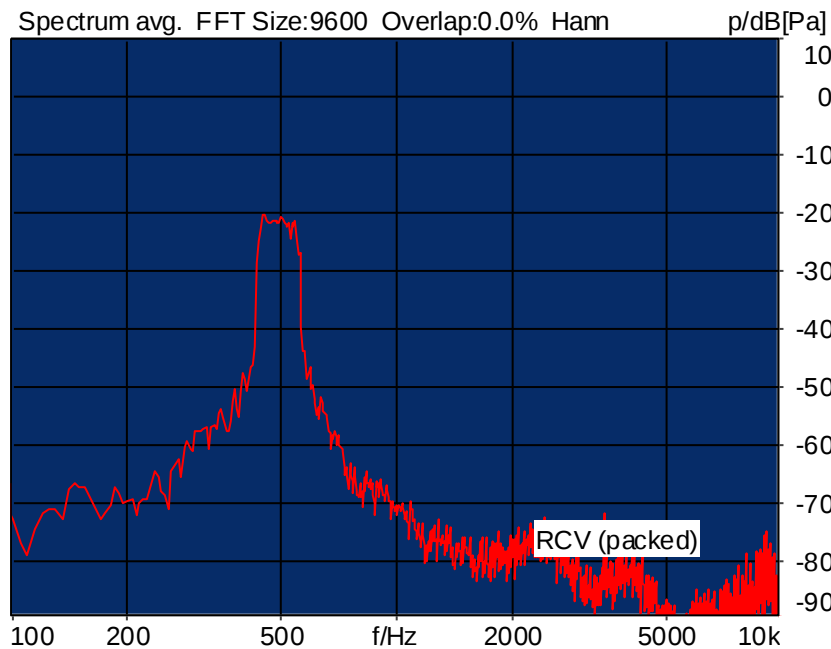
2026-02-11 上午 11:50 ACQUA 6.1.110

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): 32.09 dB (2.49%) Ok

Ok

2026-02-11 上午 11:55 ACQUA 6.1.110

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

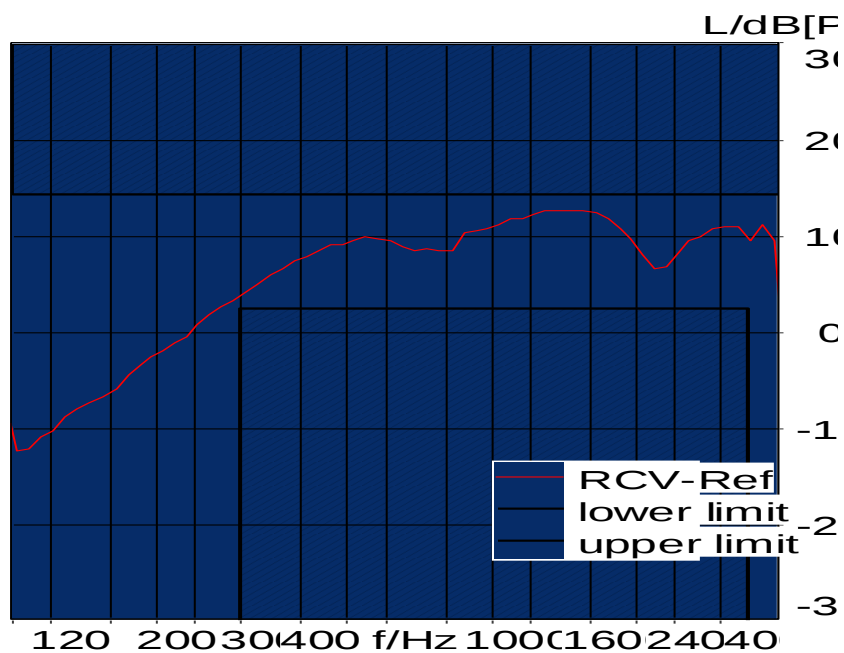
Region	Frequency	SDNR
1	400Hz	23.06 dB
2	630Hz	21.42 dB
3	800Hz	23.03 dB
4	1000Hz	20.25 dB
5	1250Hz	24.10 dB
6	1600Hz	25.59 dB
7	2000Hz	20.28 dB
8	2500Hz	36.27 dB
9	3150Hz	42.12 dB
10	500Hz	32.09 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.25dB at 1000Hz.

2026-02-11 上午 11:56 ACQUA

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

1.74 dB at 1360.9 Hz Ok

Ok

2026-02-11 上午 11:56 ACQUA 6.1.110

Limits

lower
Fit into tolerance

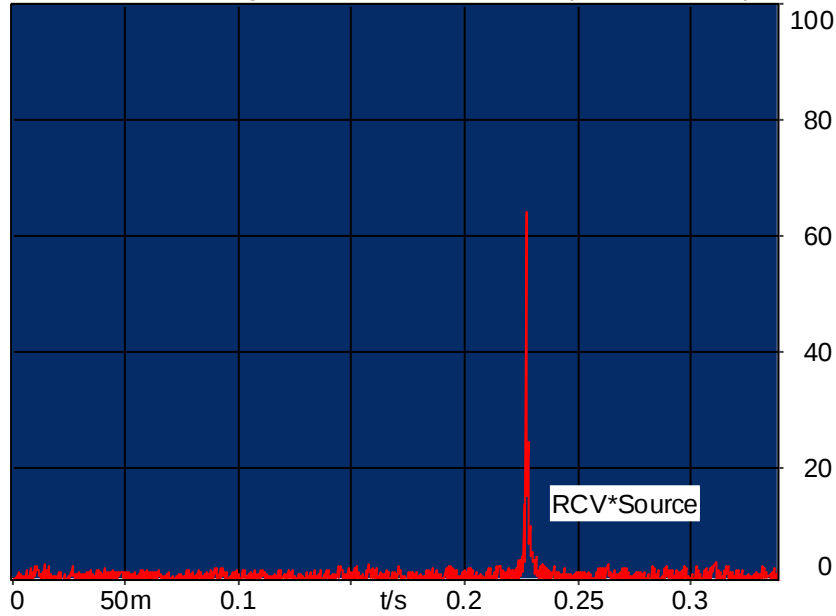
**#3 WiFi 5GHz EVS WB 24.4kbps**

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	227.7
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	85.04
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.97
5.2 RCV Distortion and Noise - 250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.06
5.2 RCV Distortion and Noise - 315 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.38
5.2 RCV Distortion and Noise - 400 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.85
5.2 RCV Distortion and Noise - 500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.07
5.2 RCV Distortion and Noise - 630 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.75
5.2 RCV Distortion and Noise - 800 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.15
5.2 RCV Distortion and Noise - 1000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.09
5.2 RCV Distortion and Noise - 1250 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.01
5.2 RCV Distortion and Noise - 1600 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.44
5.2 RCV Distortion and Noise - 2000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.65
5.2 RCV Distortion and Noise - 2500 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.24
5.2 RCV Distortion and Noise - 3150 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.29
5.2 RCV Distortion and Noise - 4000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.94
5.2 RCV Distortion and Noise - 5000 Hz 8N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.54
Report - Receive Distortion and Noise (Conversational Gain) 8N WB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	22.01
5.2 RCV Distortion and Noise - 250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.50
5.2 RCV Distortion and Noise - 315 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.92
5.2 RCV Distortion and Noise - 400 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.17
5.2 RCV Distortion and Noise - 500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.53
5.2 RCV Distortion and Noise - 630 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.51
5.2 RCV Distortion and Noise - 800 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.09
5.2 RCV Distortion and Noise - 1000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.29
5.2 RCV Distortion and Noise - 1250 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.17
5.2 RCV Distortion and Noise - 1600 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.47
5.2 RCV Distortion and Noise - 2000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.59
5.2 RCV Distortion and Noise - 2500 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.76
5.2 RCV Distortion and Noise - 3150 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.51
5.2 RCV Distortion and Noise - 4000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.63
5.2 RCV Distortion and Noise - 5000 Hz 2N WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.54
Report - Receive Distortion and Noise (Conversational Gain) 2N WB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	20.59
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	2.14
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	2.48
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 5767.3 Hz	1.87
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	1.01

Overall Receive Delay WB

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

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



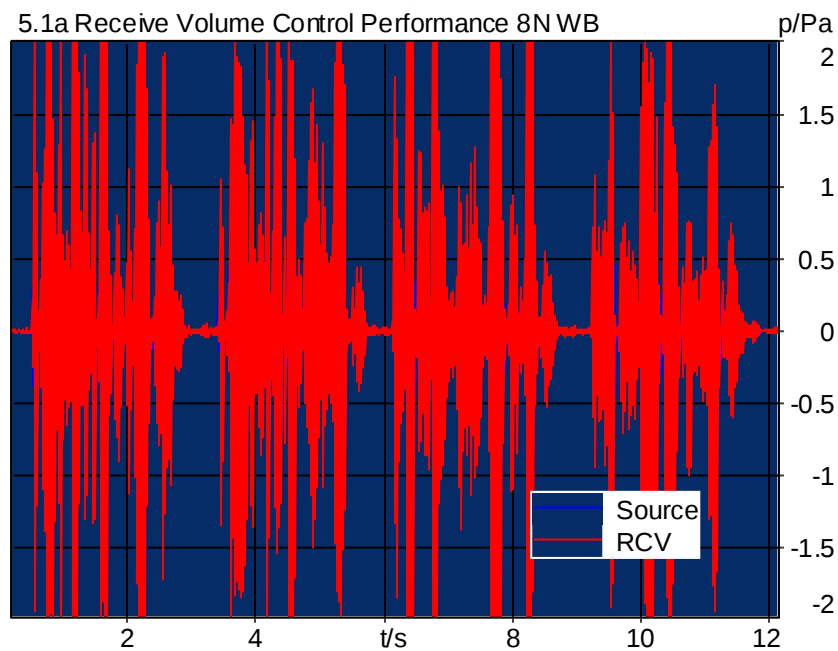
Channel	Delay	Correlation
RCV*Source	227.7 ms	64.20 %

2026-02-07 上午 03:56 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	85.04 dB[SPL]	84.33%	Ok

Ok

2026-02-07 上午 03:56 ACQUA 6.1.110

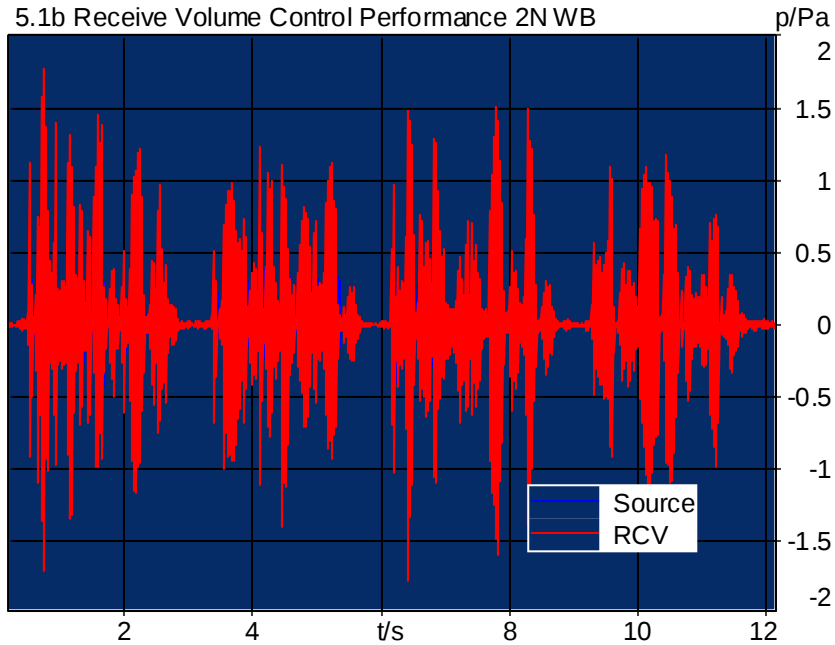
Limits

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	78.97 dB[SPL]	84.72%	Ok

Ok

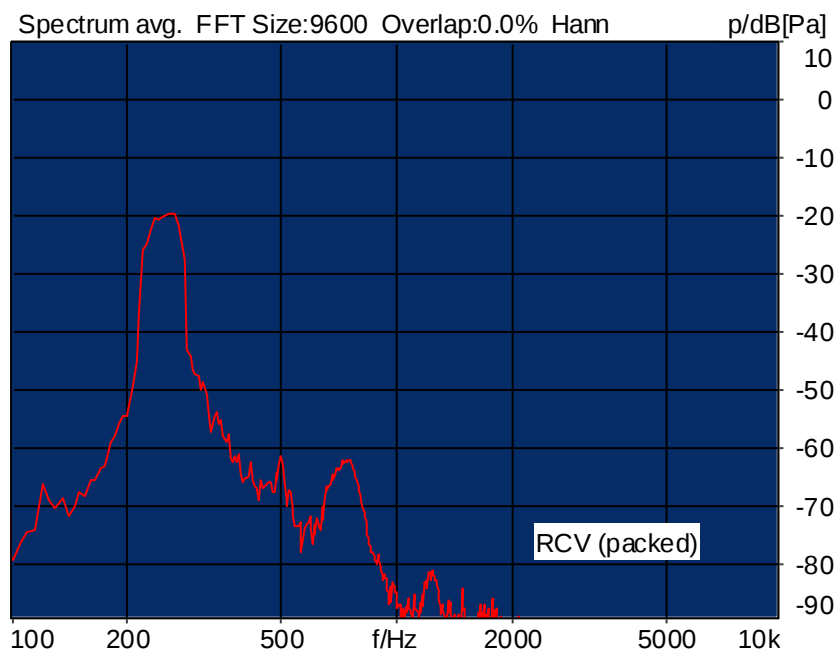
2026-02-07 上午 04:06 ACQUA 6.1.110

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): 36.06 dB (1.57%) Ok

Ok

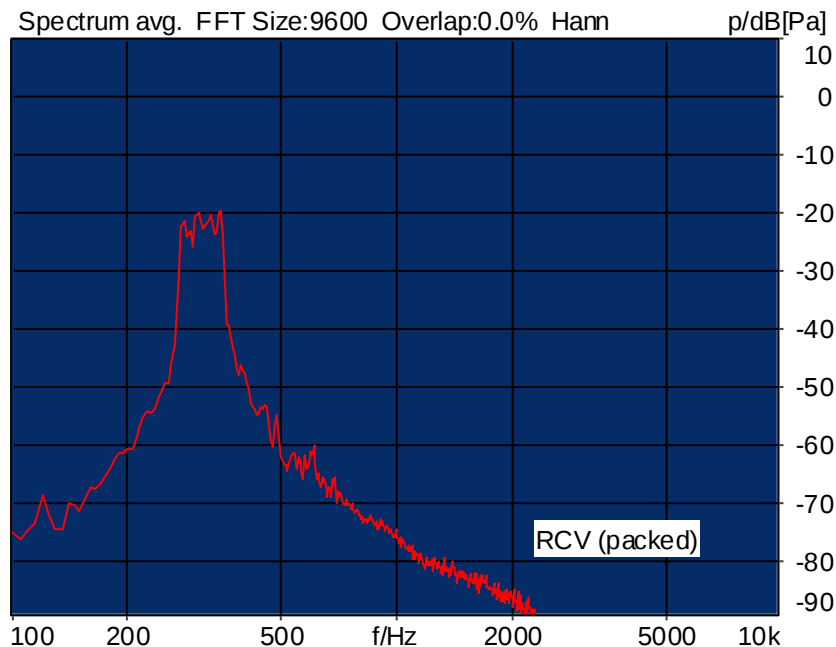
2026-02-07 上午 03:57 ACQUA 6.1.110

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): 32.38 dB (2.40%) Ok

Ok

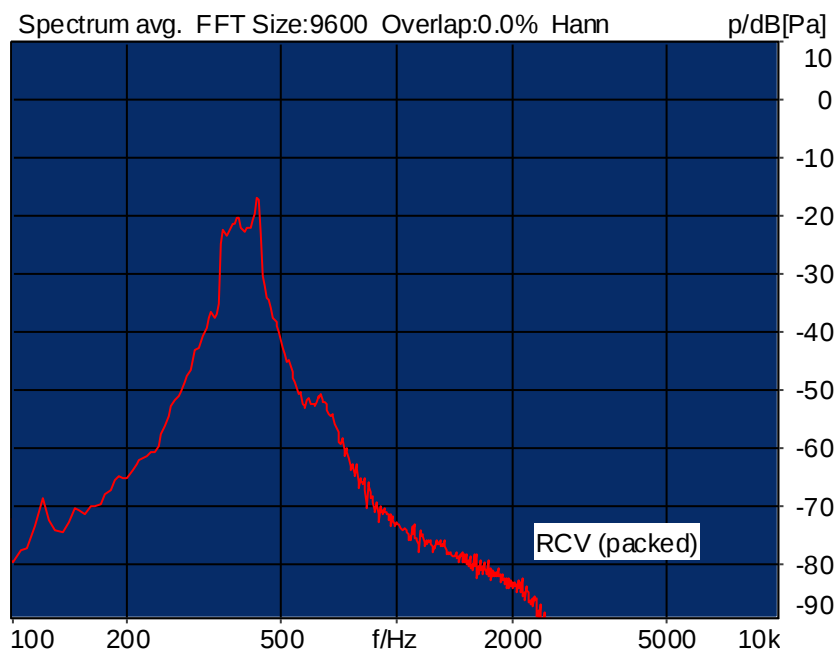
2026-02-07 上午 03:57 ACQUA 6.1.110

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): 24.85 dB (5.72%) Ok

Ok

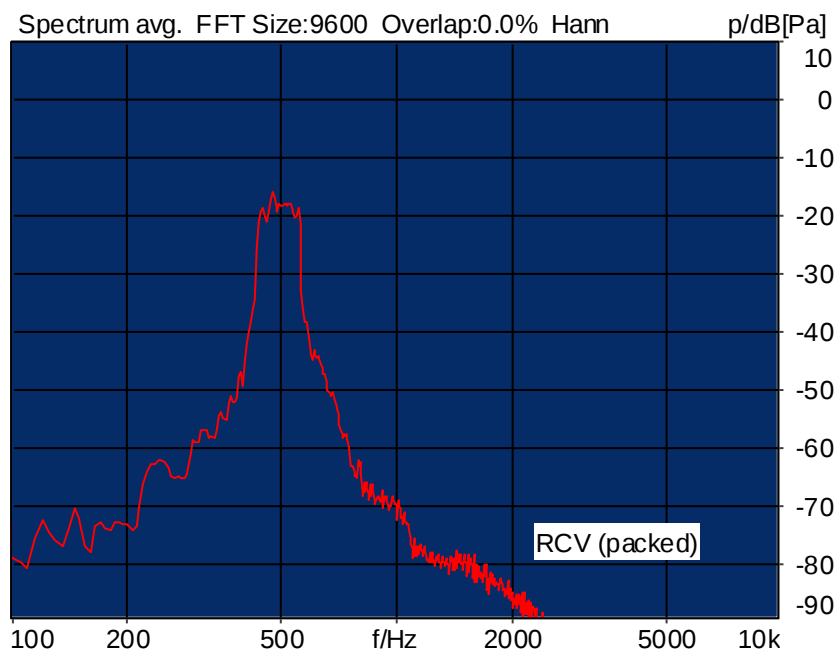
2026-02-07 上午 03:58 ACQUA 6.1.110

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): 30.07 dB (3.14%) Ok

Ok

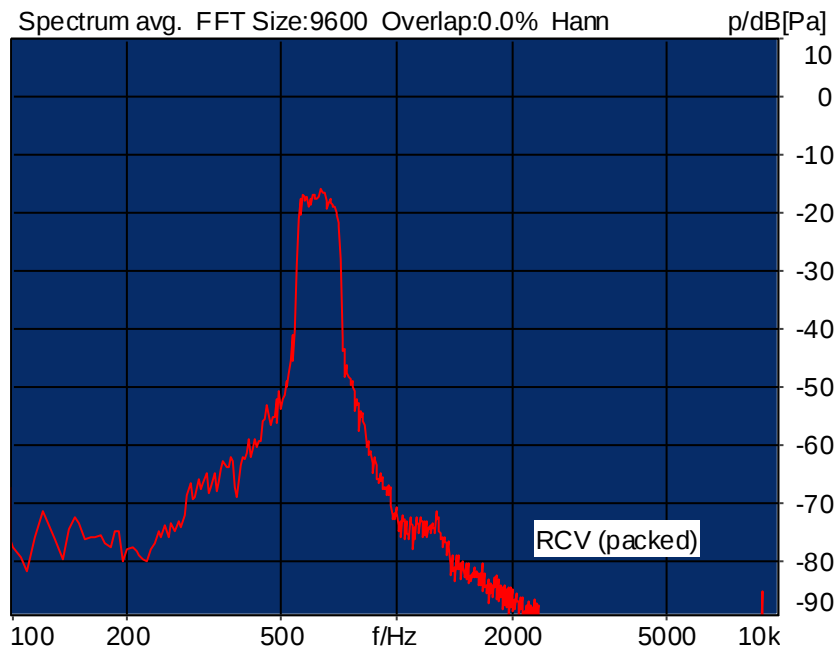
2026-02-07 上午 03:59 ACQUA 6.1.110

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): 35.75 dB (1.63%) Ok

Ok

2026-02-07 上午 03:59 ACQUA 6.1.110

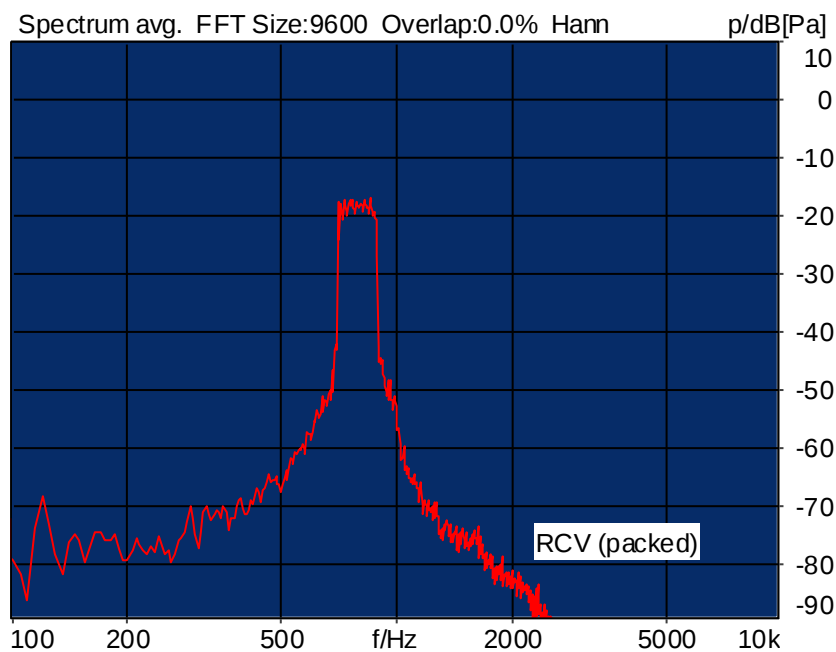
Limits

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): 34.15 dB (1.96%) Ok

Ok

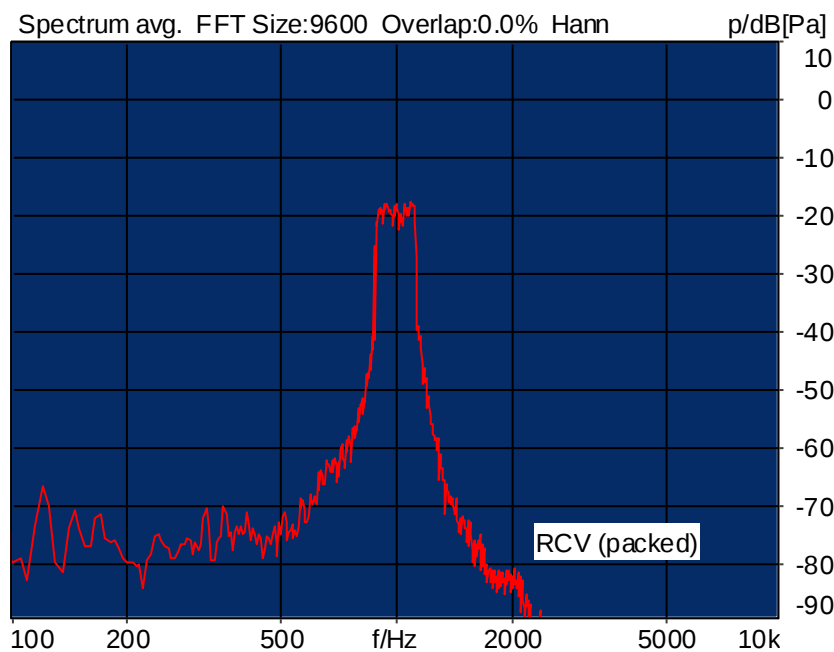
2026-02-07 上午 04:00 ACQUA 6.1.110

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): 32.09 dB (2.49%) Ok

Ok

2026-02-07 上午 04:00 ACQUA 6.1.110

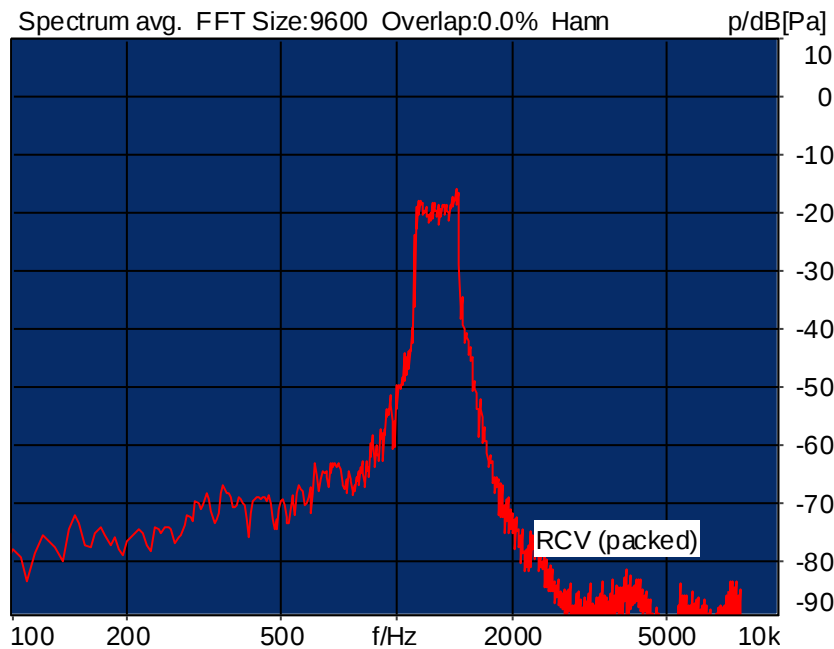
Limits

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): 22.01 dB (7.93%) Ok

Ok

2026-02-07 上午 04:01 ACQUA 6.1.110

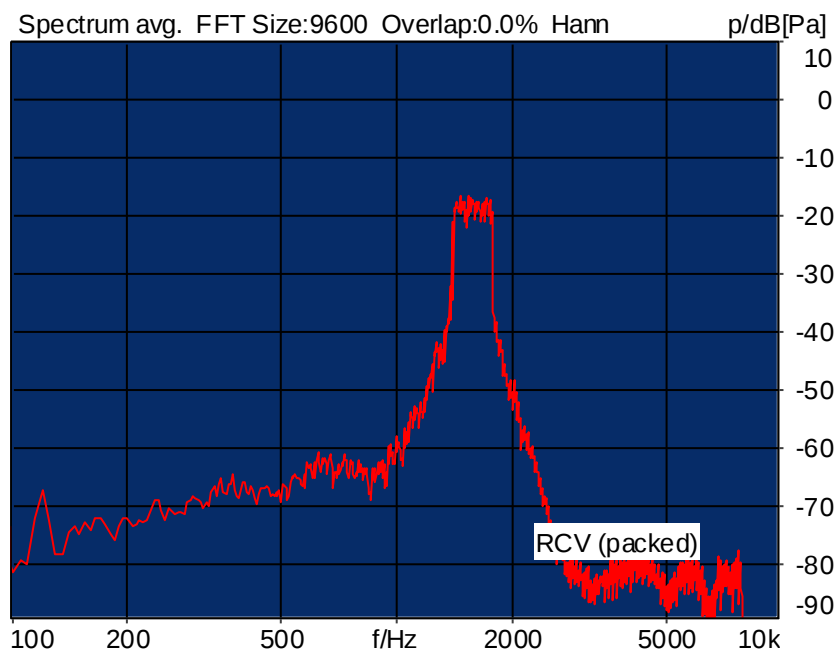
Limits

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): 24.44 dB (6.00%) Ok

Ok

2026-02-07 上午 04:01 ACQUA 6.1.110

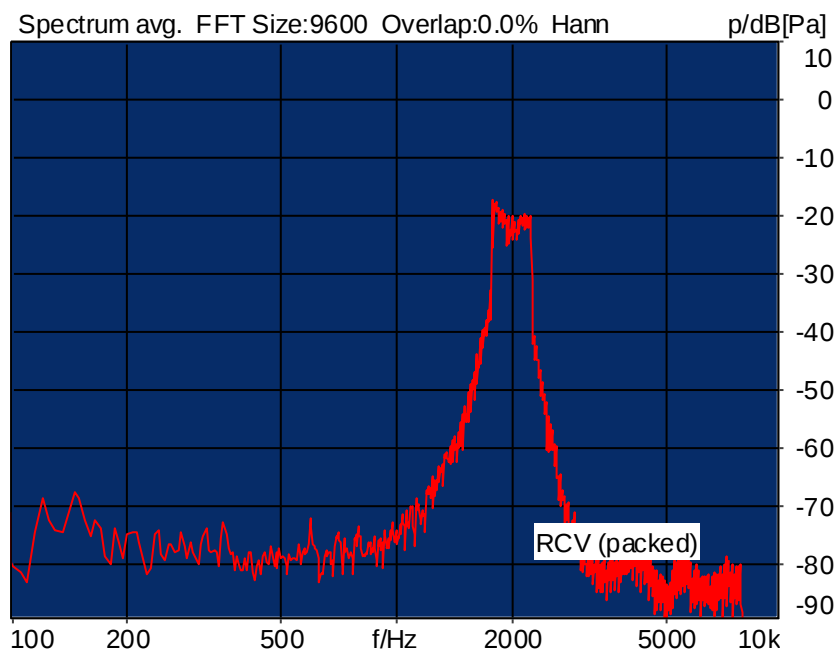
Limits

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): 22.65 dB (7.37%) Ok

Ok

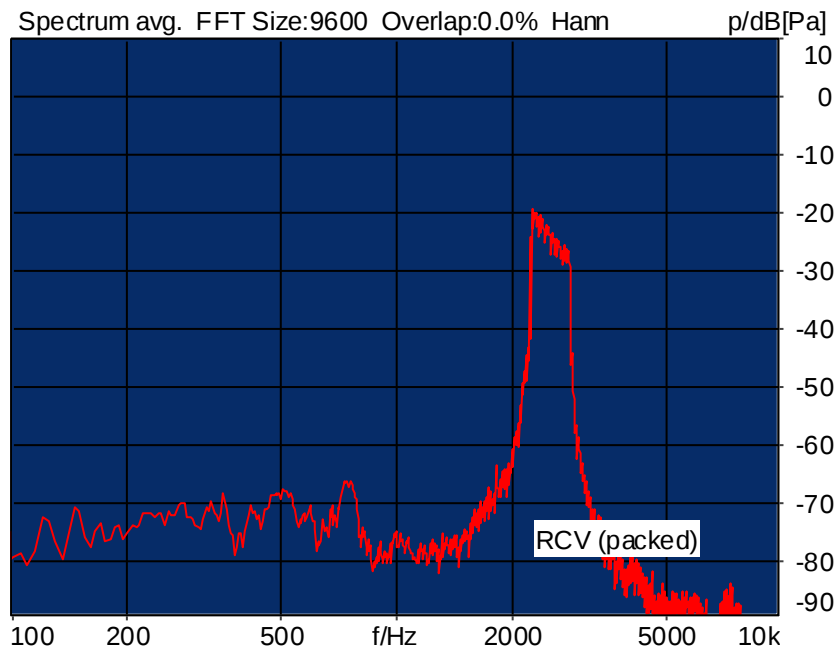
2026-02-07 上午 04:02 ACQUA 6.1.110

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): 29.24 dB (3.45%) Ok

Ok

2026-02-07 上午 04:02 ACQUA 6.1.110

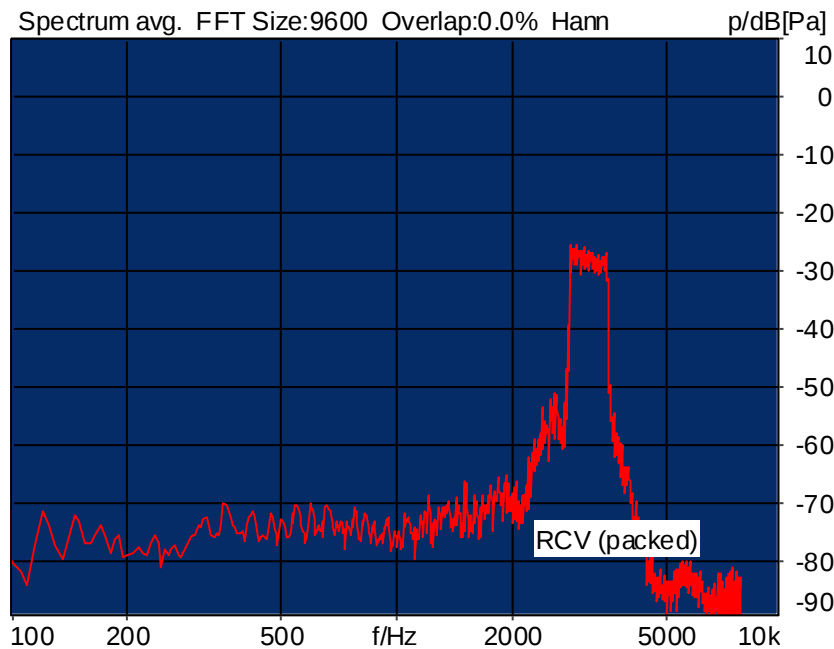
Limits

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): 26.29 dB (4.85%) Ok

Ok

2026-02-07 上午 04:03 ACQUA 6.1.110

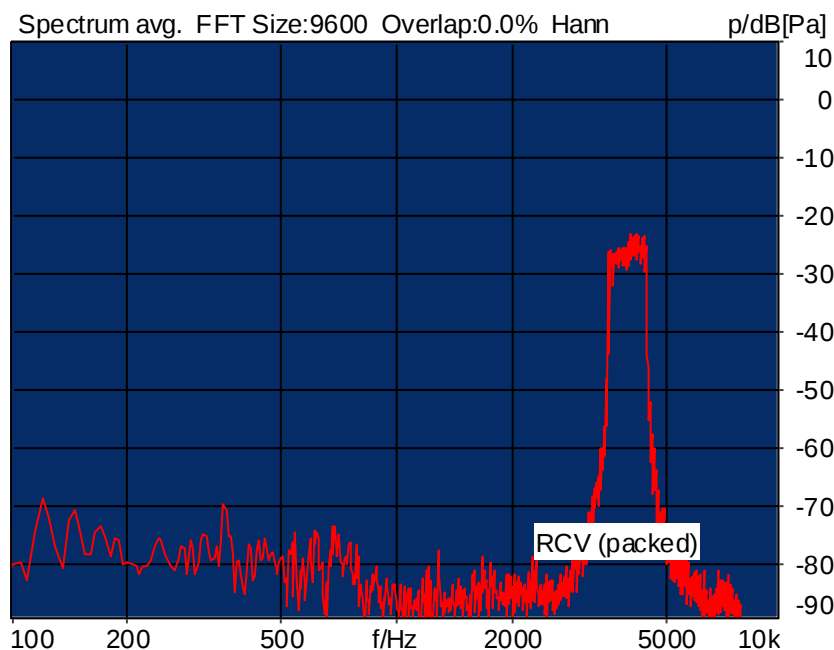
Limits

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): 33.94 dB (2.01%) Ok

Ok

2026-02-07 上午 04:04 ACQUA 6.1.110

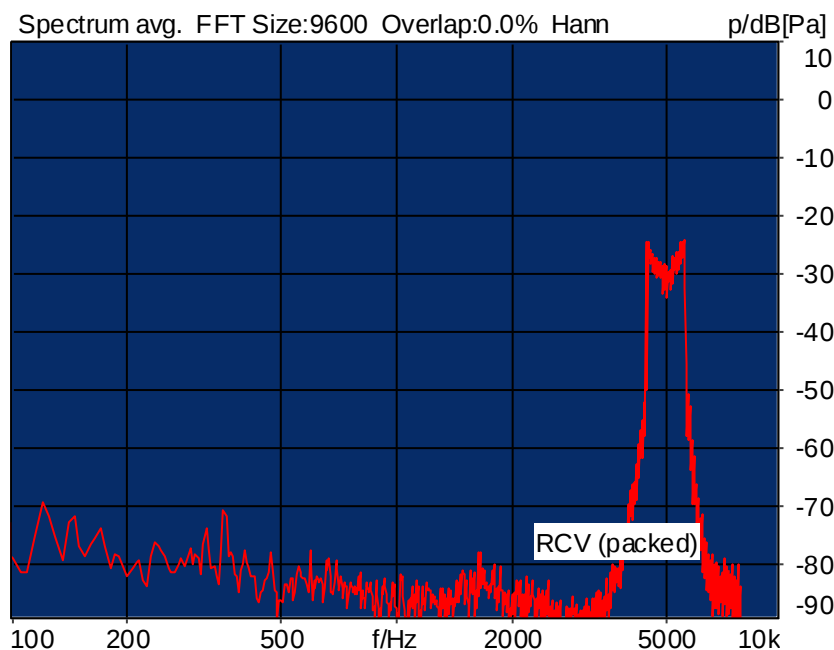
Limits

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): 31.54 dB (2.65%) Ok

Ok

2026-02-07 上午 04:04 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	36.06 dB
2	315Hz	32.38 dB
3	400Hz	24.85 dB
4	500Hz	30.07 dB
5	630Hz	35.75 dB
6	800Hz	34.15 dB
7	1000Hz	32.09 dB
8	1250Hz	22.01 dB
9	1600Hz	24.44 dB
10	2000Hz	22.65 dB
11	2500Hz	29.24 dB
12	3150Hz	26.29 dB
13	4000Hz	33.94 dB
14	5000Hz	31.54 dB

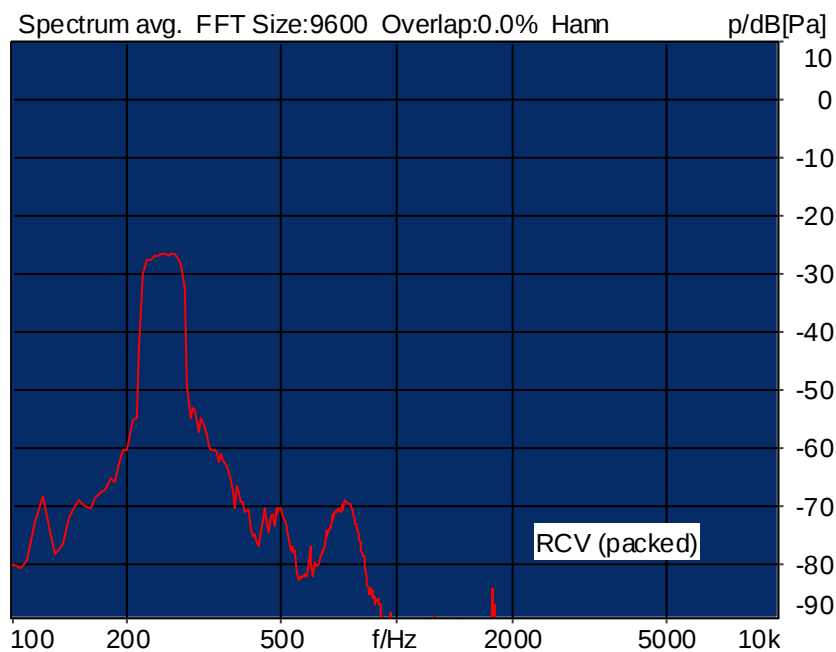
All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 22.01dB at 1250Hz.

2026-02-07 上午 04:04 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): 36.50 dB (1.50%) Ok

Ok

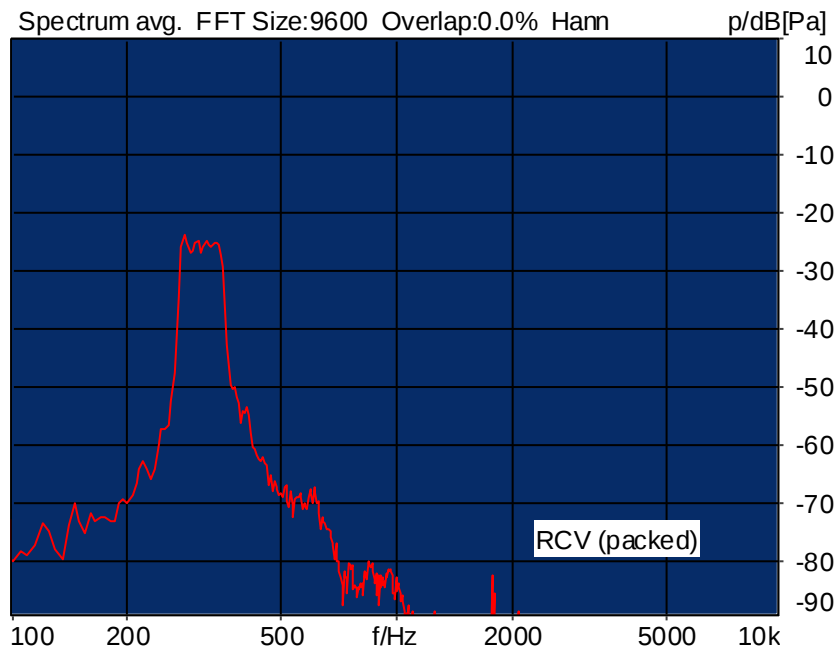
2026-02-07 上午 04:06 ACQUA 6.1.110

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): 35.92 dB (1.60%) Ok

Ok

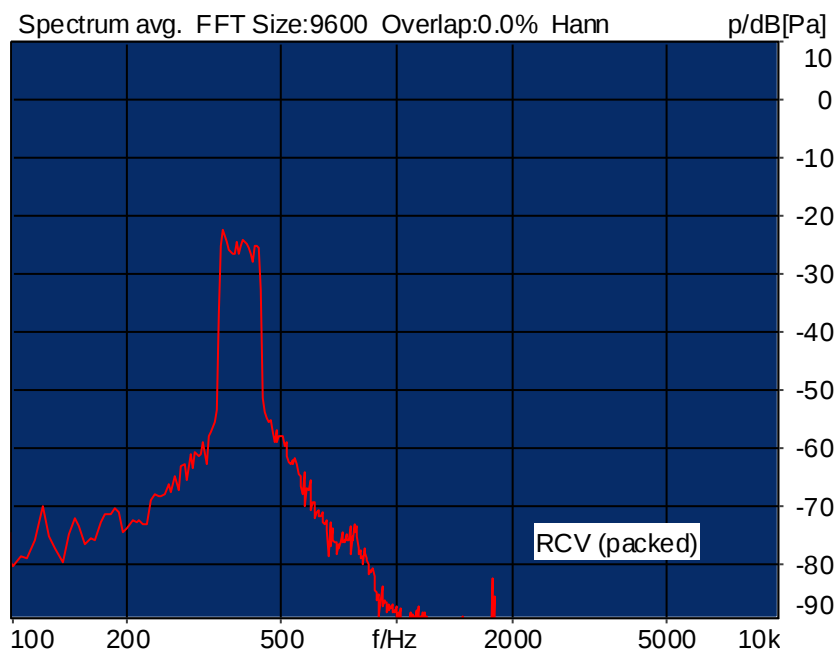
2026-02-07 上午 04:07 ACQUA 6.1.110

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): 37.17 dB (1.39%) Ok

Ok

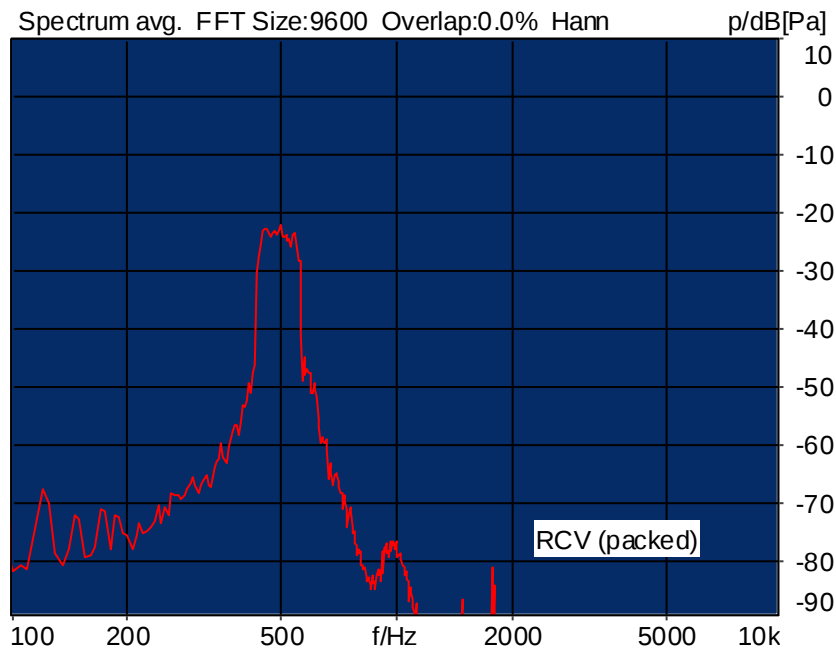
2026-02-07 上午 04:07 ACQUA 6.1.110

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): 33.53 dB (2.11%) Ok

Ok

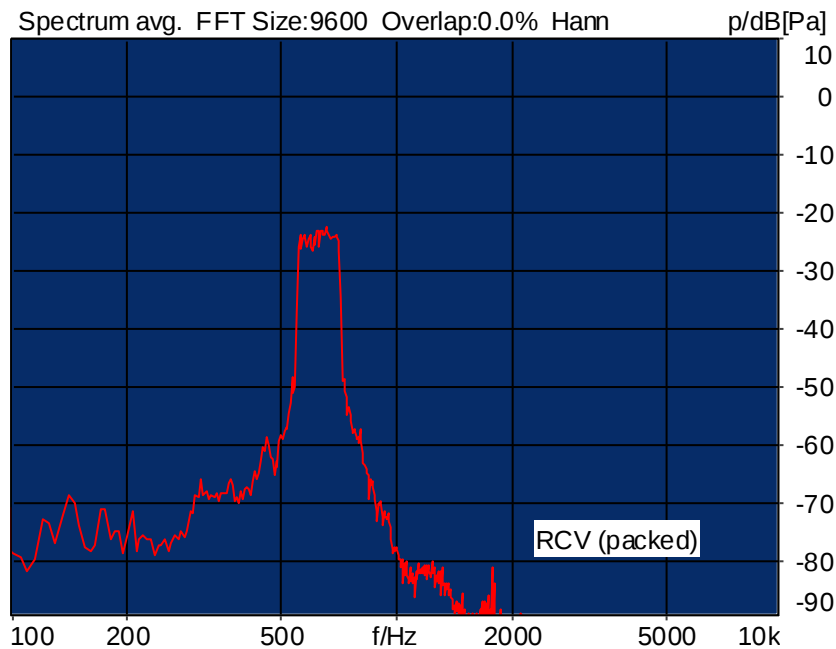
2026-02-07 上午 04:08 ACQUA 6.1.110

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): 35.51 dB (1.68%) Ok

Ok

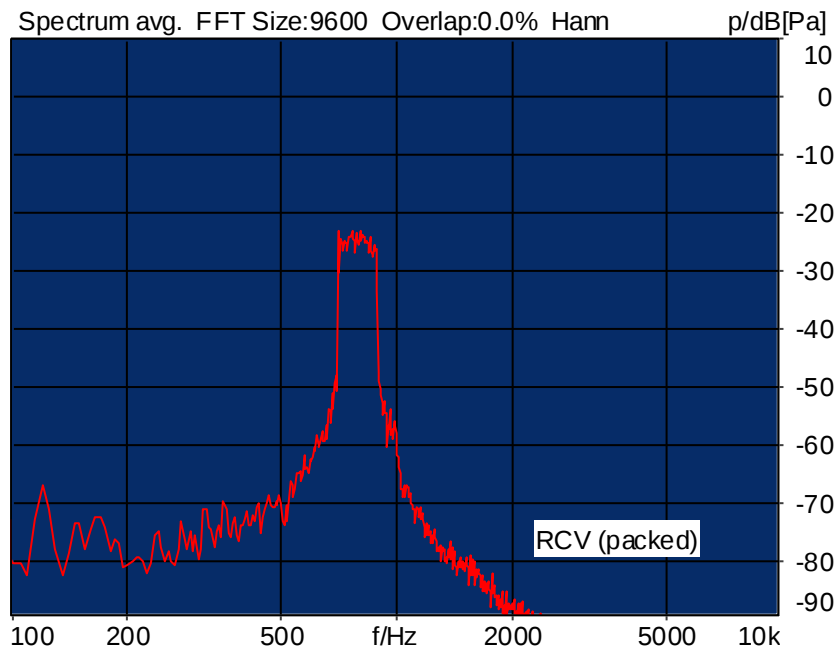
2026-02-07 上午 04:08 ACQUA 6.1.110

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): 33.09 dB (2.21%) Ok

Ok

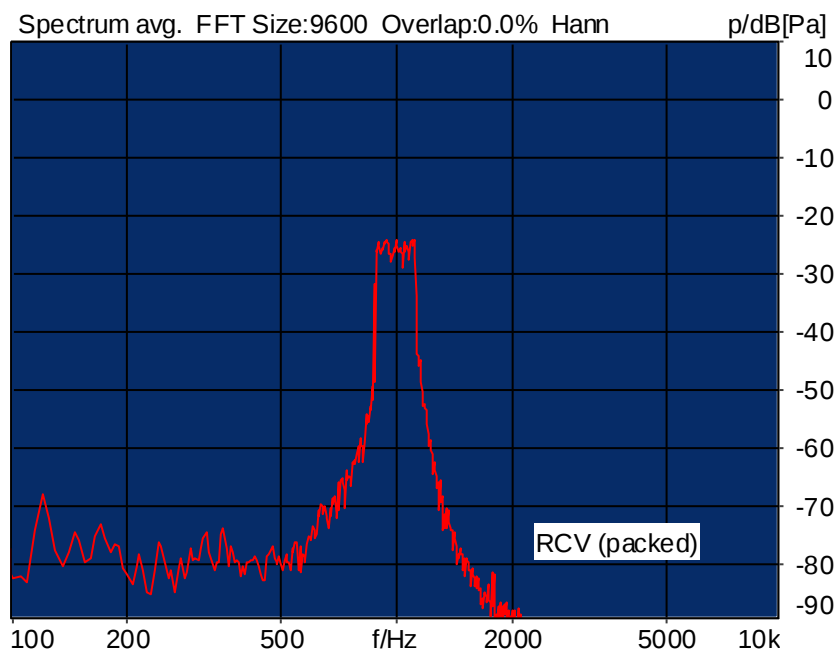
2026-02-07 上午 04:09 ACQUA 6.1.110

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): 31.29 dB (2.73%) Ok

Ok

2026-02-07 上午 04:09 ACQUA 6.1.110

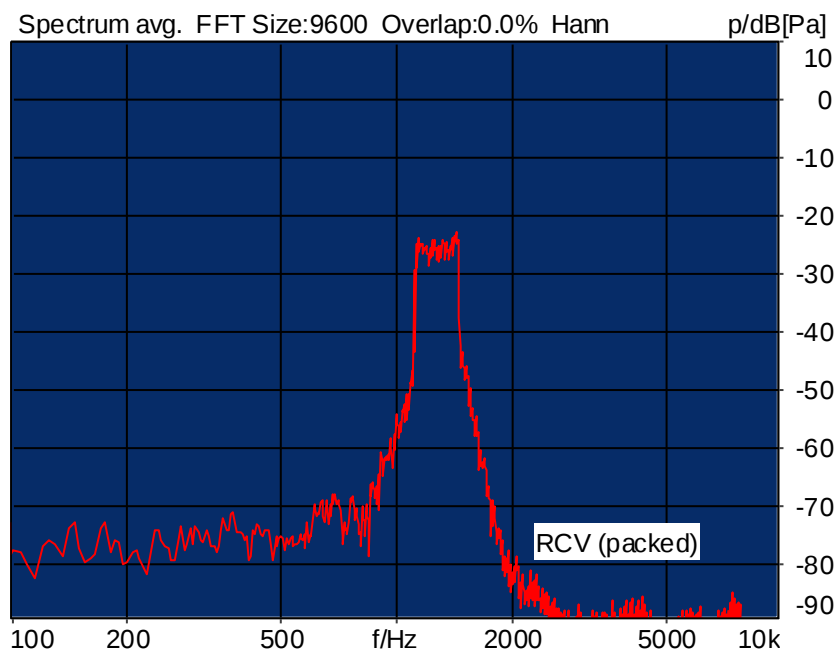
Limits

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): 23.17 dB (6.94%) Ok

Ok

2026-02-07 上午 04:10 ACQUA 6.1.110

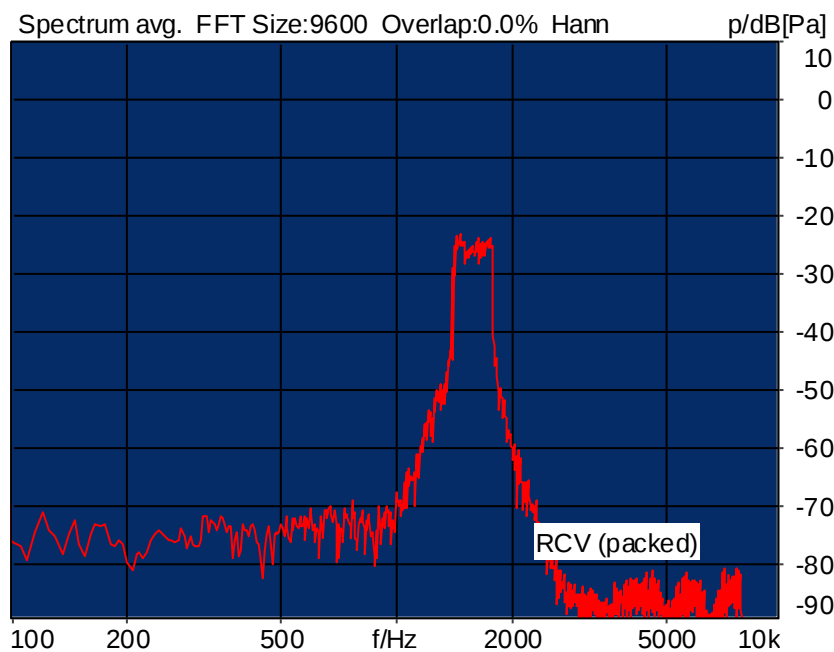
Limits

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): 25.47 dB (5.33%) Ok

Ok

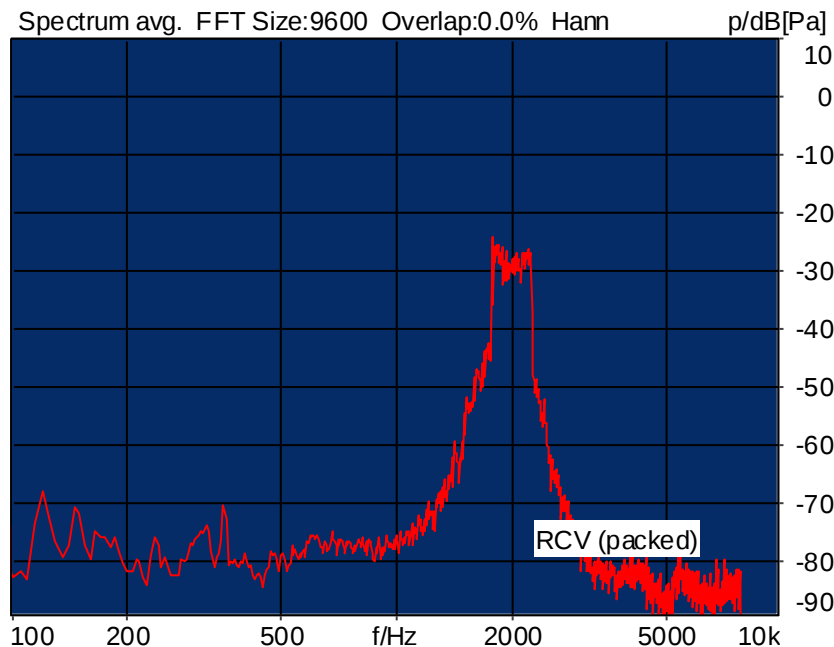
2026-02-07 上午 04:11 ACQUA 6.1.110

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): 20.59 dB (9.34%) Ok

Ok

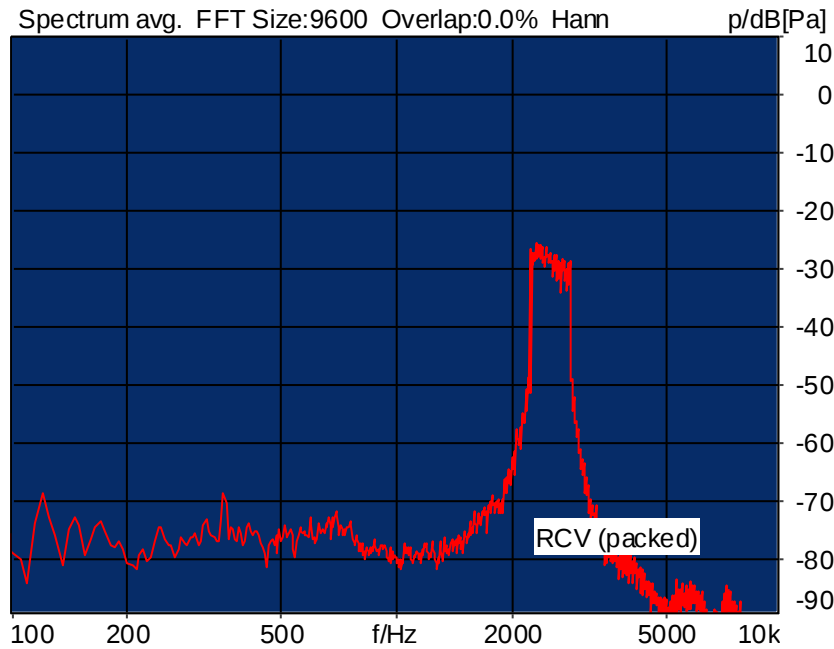
2026-02-07 上午 04:11 ACQUA 6.1.110

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): 27.76 dB (4.09%) Ok

Ok

2026-02-07 上午 04:12 ACQUA 6.1.110

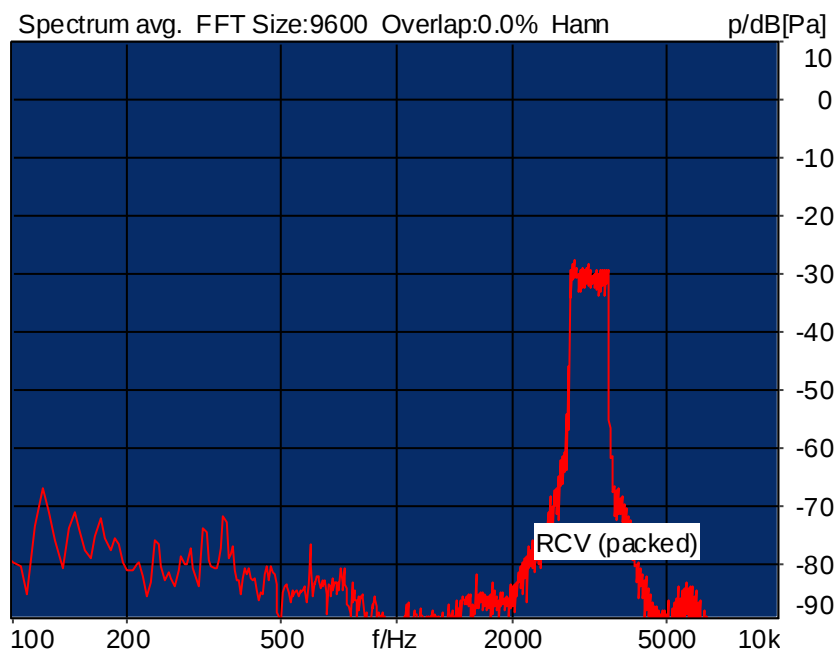
Limits

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): 33.51 dB (2.11%) Ok

Ok

2026-02-07 上午 04:12 ACQUA 6.1.110

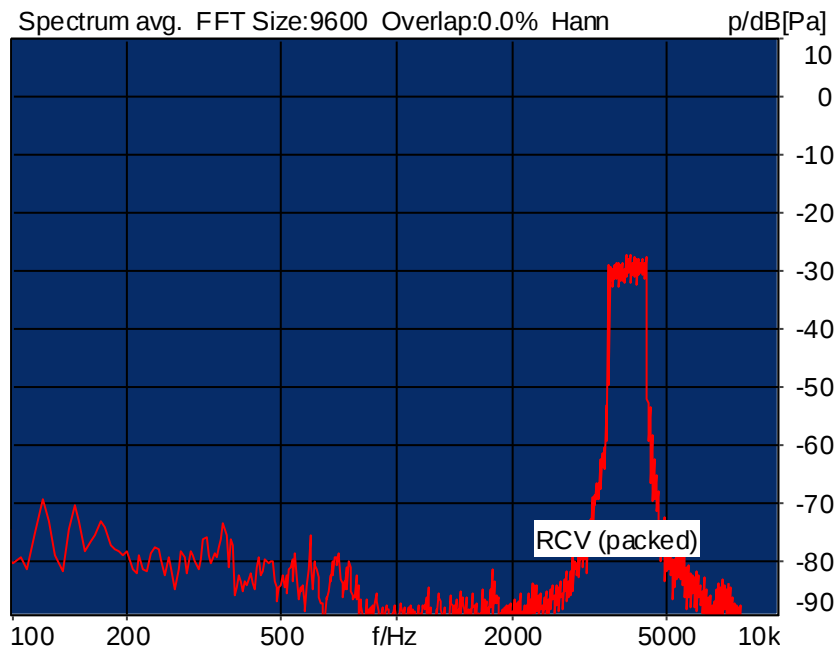
Limits

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): 32.63 dB (2.33%) Ok

Ok

2026-02-07 上午 04:13 ACQUA 6.1.110

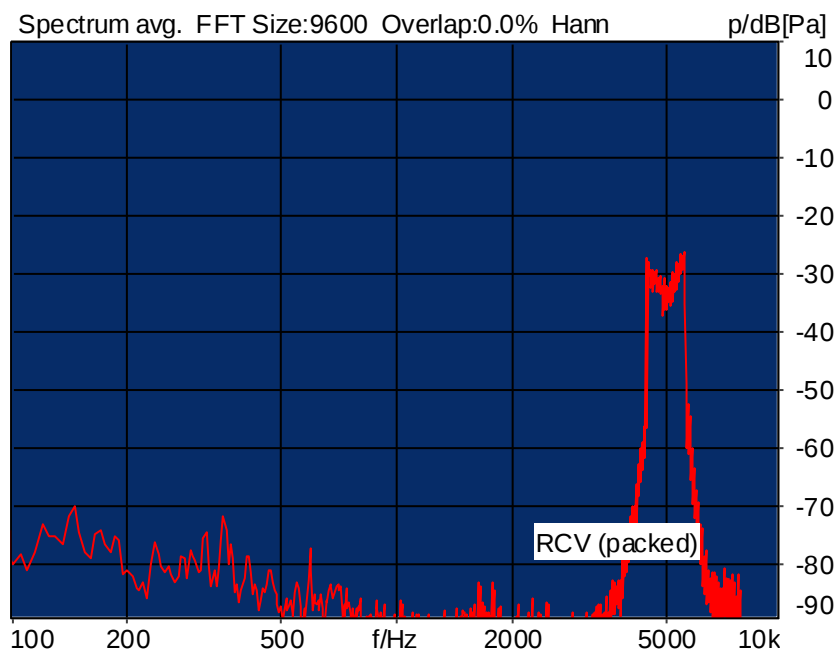
Limits

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): 31.54 dB (2.65%) Ok

Ok

2026-02-07 上午 04:13 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

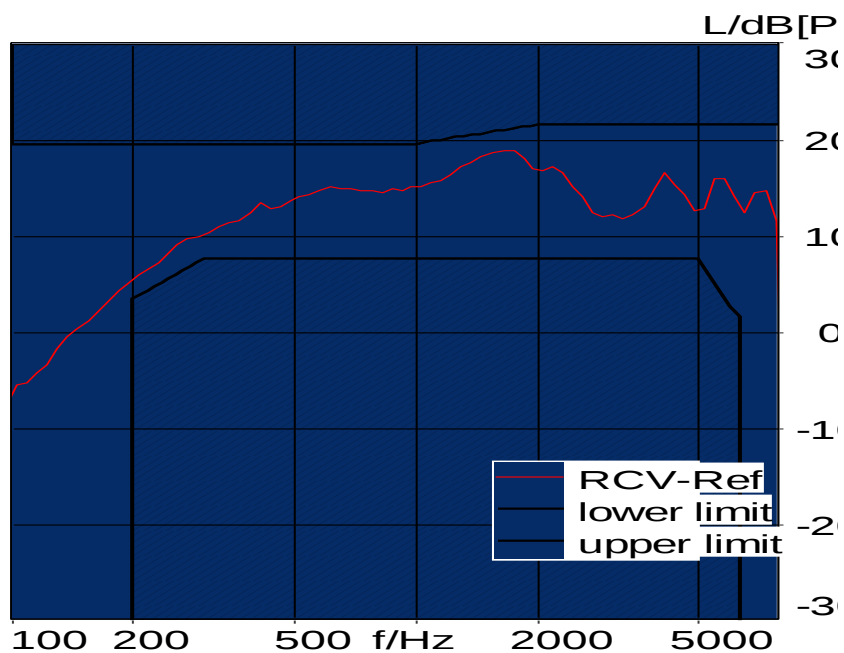
Region	Frequency	SDNR
1	250Hz	36.50 dB
2	315Hz	35.92 dB
3	400Hz	37.17 dB
4	500Hz	33.53 dB
5	630Hz	35.51 dB
6	800Hz	33.09 dB
7	1000Hz	31.29 dB
8	1250Hz	23.17 dB
9	1600Hz	25.47 dB
10	2000Hz	20.59 dB
11	2500Hz	27.76 dB
12	3150Hz	33.51 dB
13	4000Hz	32.63 dB
14	5000Hz	31.54 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.59dB at 2000Hz.

2026-02-07 上午 04:13 ACQUA

5.3 Frequency Response 8N FF

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



Absolute minimal distance

2.14 dB at 205.7 Hz Ok

Ok

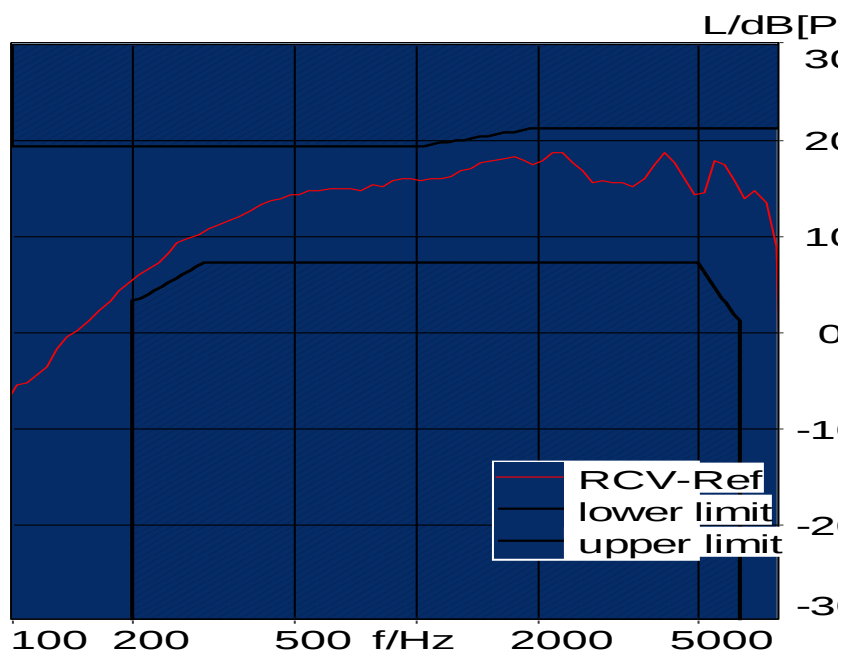
2026-02-07 上午 04:05 ACQUA 6.1.110

Limits

lower
Fit into tolerance

5.3 Frequency Response 8N DF

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



Absolute minimal distance

2.48 dB at 4119.5 Hz Ok

Ok

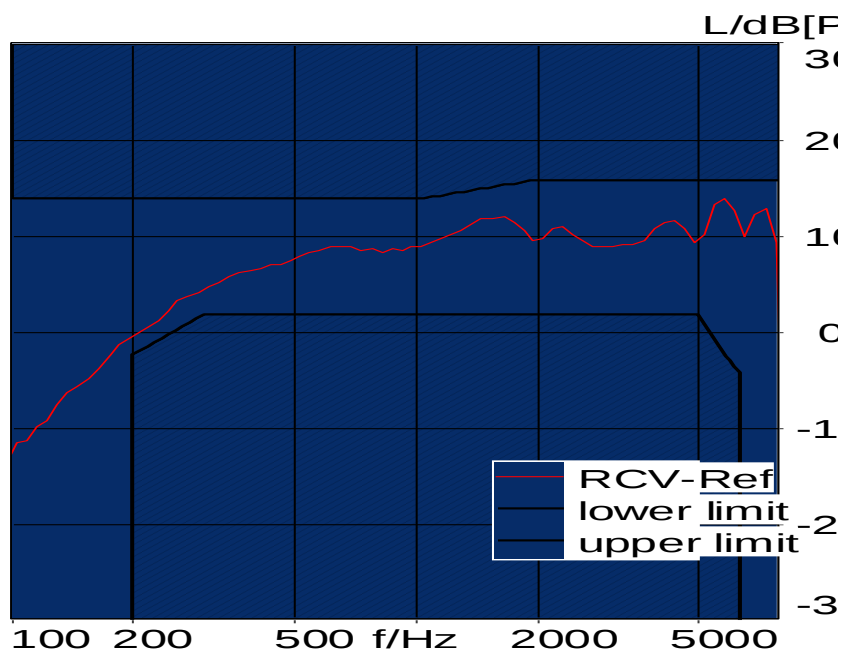
2026-02-07 上午 04:05 ACQUA 6.1.110

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF

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



Absolute minimal distance

1.87 dB at 5767.3 Hz Ok

Ok

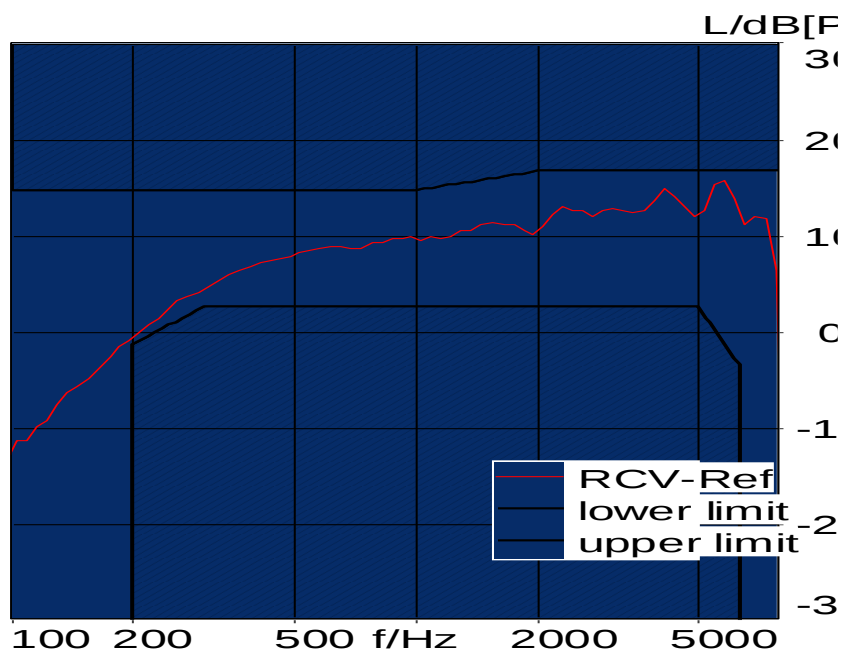
2026-02-07 上午 04:14 ACQUA 6.1.110

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF

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



Absolute minimal distance

1.01 dB at 205.7 Hz Ok

Ok

2026-02-07 上午 04:14 ACQUA 6.1.110

Limits

lower
Fit into tolerance



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.b>



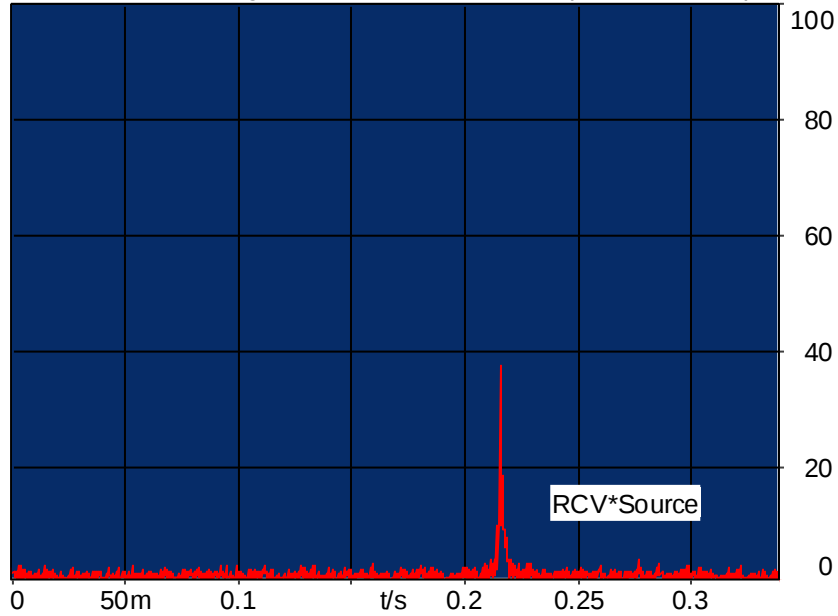
#4 GSM1900 AMR NB 12.2kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	216.0
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.86
5.1b Receive Volume Control Performance 2N WBss	Ok	Speech Level [dB[SPL]]	78.67

Overall Receive Delay WB

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

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



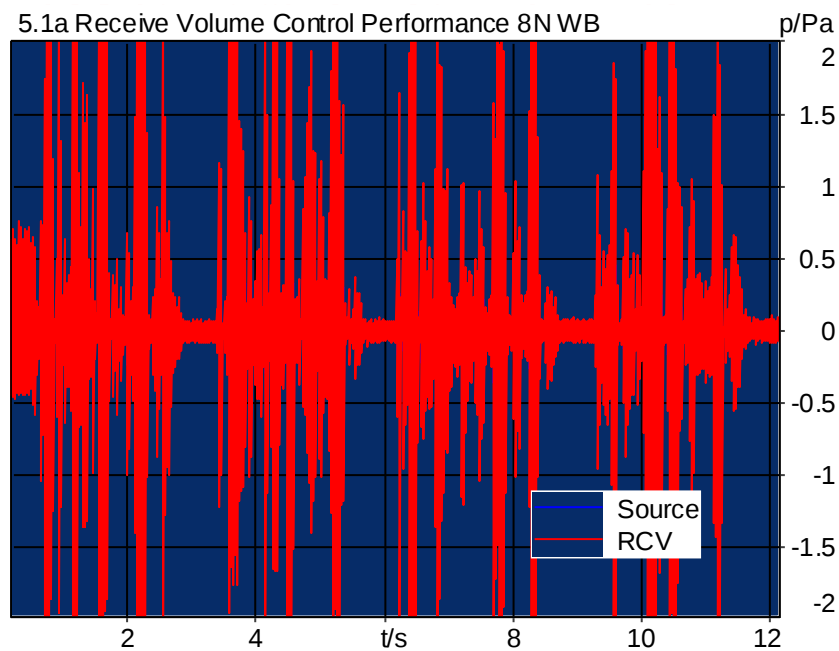
Channel	Delay	Correlation
RCV*Source	216.0 ms	37.40 %

2026-02-19 上午 03:31 ACQUA 6.2.200

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	84.86 dB[SPL]	82.99%	Ok

Ok

2026-02-19 上午 03:32 ACQUA 6.2.200

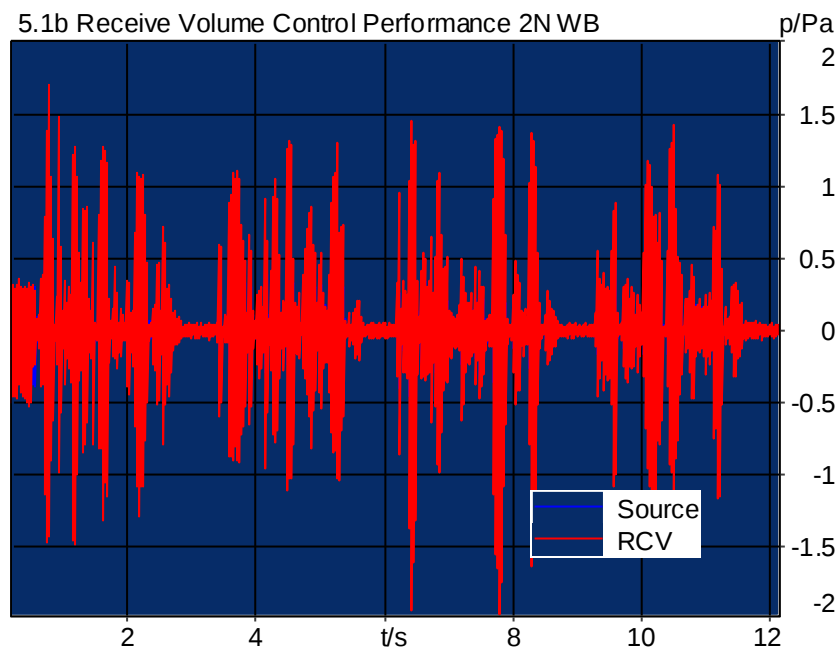
Limits

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	78.67 dB[SPL]	84.32%	Ok

Ok

2026-02-19 上午 03:33 ACQUA 6.2.200

Limits

lower
76.00 dB[SPL]

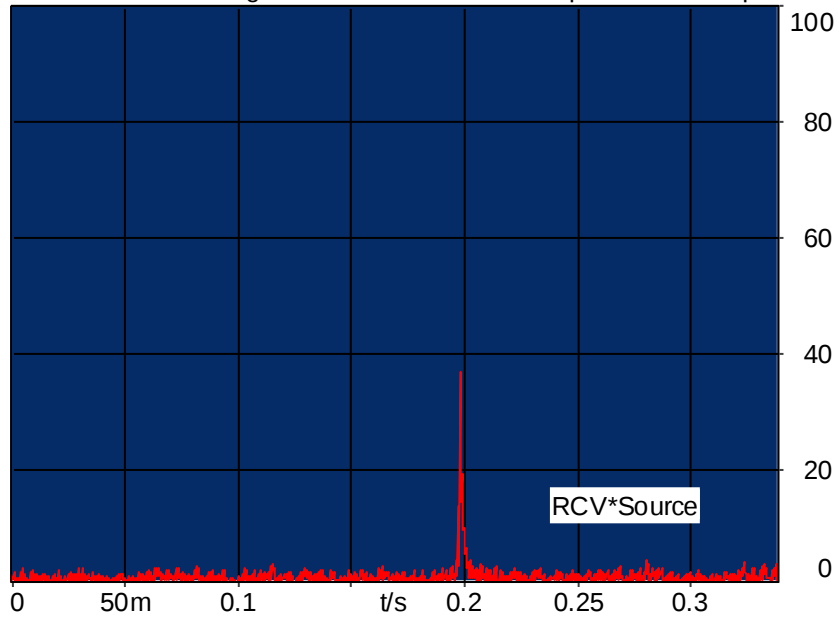
**#5 WCDMA II AMR WB 6.60kbps**

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	198.4
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.68
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.56

Overall Receive Delay WB

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

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



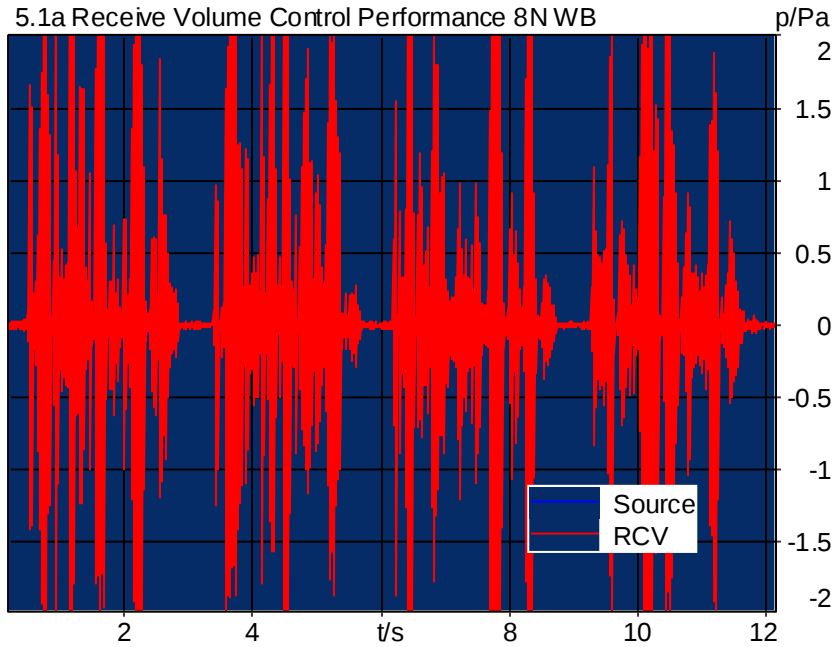
Channel	Delay	Correlation
RCV*Source	198.4 ms	36.73 %

2026-02-07 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	84.68 dB[SPL]	80.05%	Ok

Ok

2026-02-07 上午 06:32 ACQUA 6.1.110

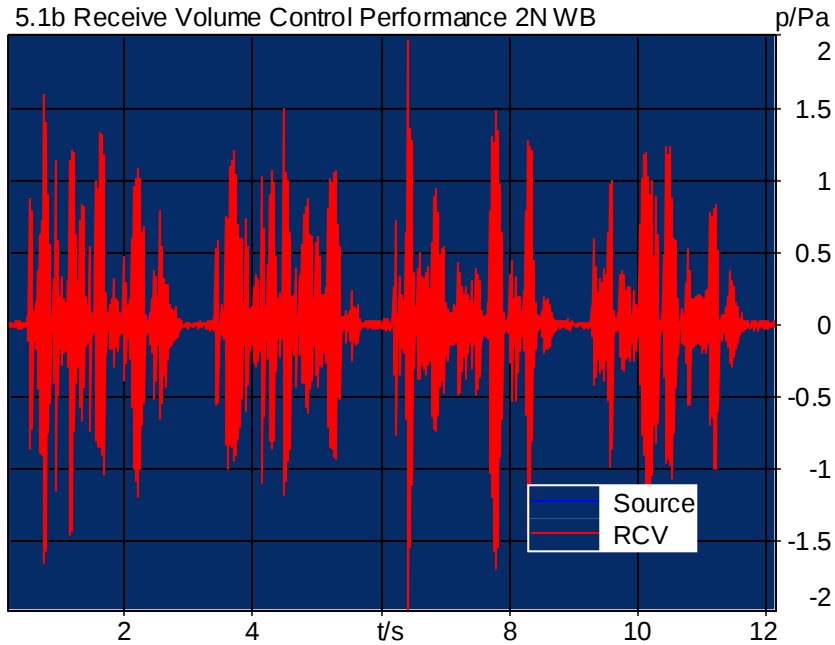
Limits

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	78.56 dB[SPL]	81.22%	Ok

Ok

2026-02-07 上午 06:33 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]



#6 LTE Band 53 EVS WB 5.9kbps

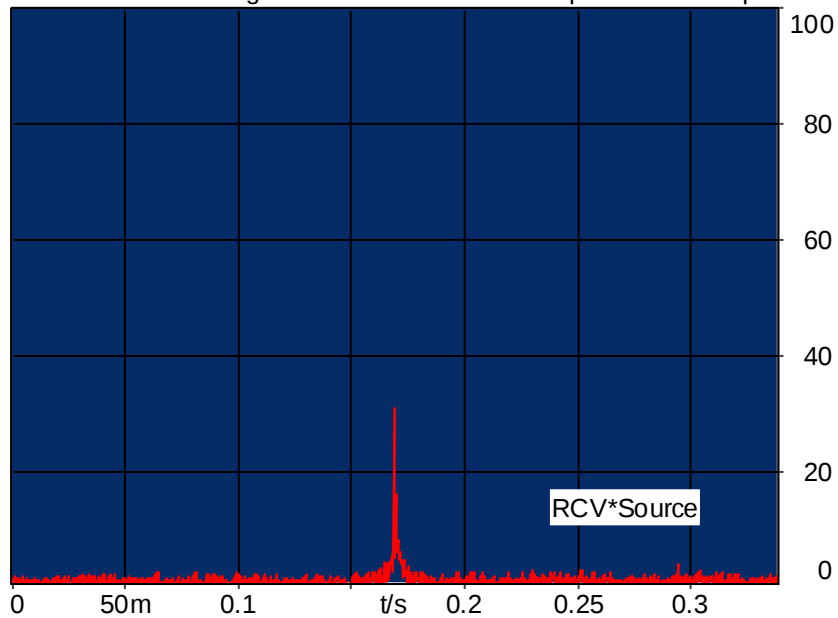
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	169.2
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	83.94
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.49



Overall Receive Delay WB

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

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



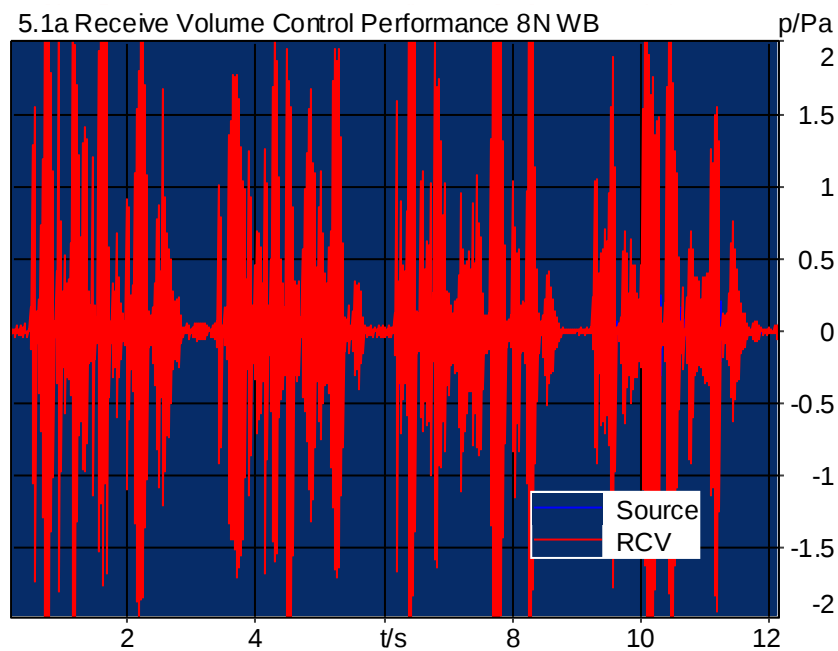
Channel	Delay	Correlation
RCV*Source	169.2 ms	31.07 %

2026-02-12 下午 04:20 ACQUA 6.2.200

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	83.94 dB[SPL]	84.09%	Ok

Ok

2026-02-12 下午 04:21 ACQUA 6.2.200

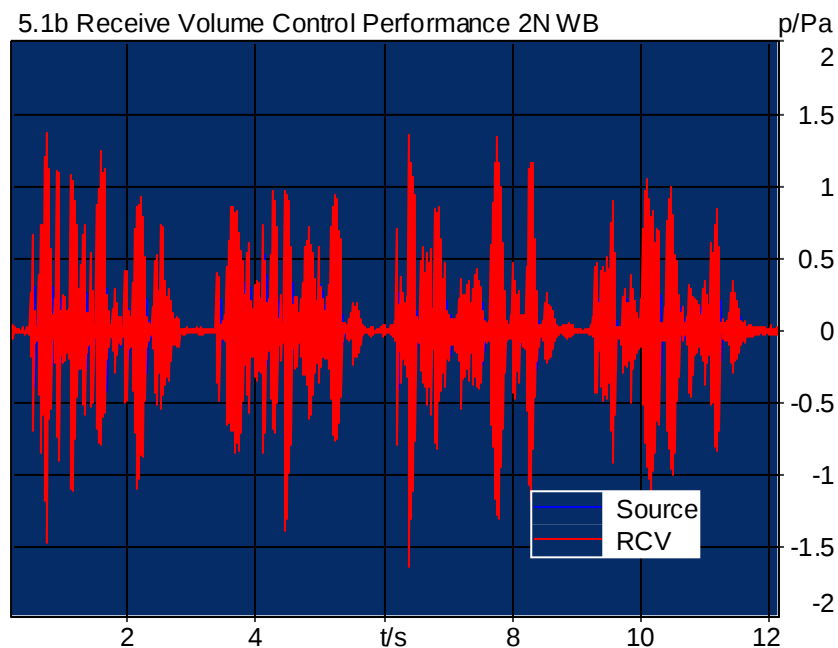
Limits

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	77.49 dB[SPL]	84.08%	Ok

Ok

2026-02-12 下午 04:22 ACQUA 6.2.200

Limits

lower
76.00 dB[SPL]



#7 FR1 n7 AMR WB 23.85kbps

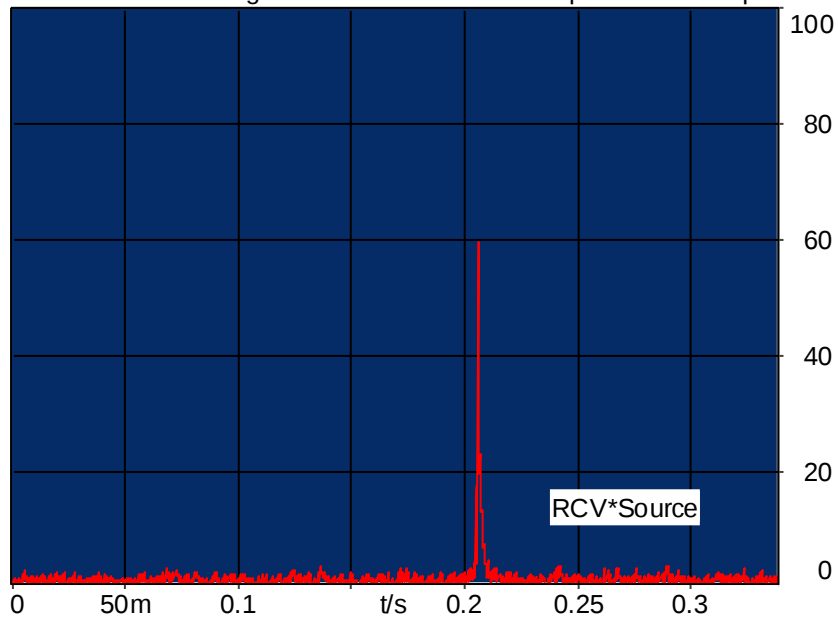
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	206.6
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.44
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	77.22



Overall Receive Delay WB

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

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



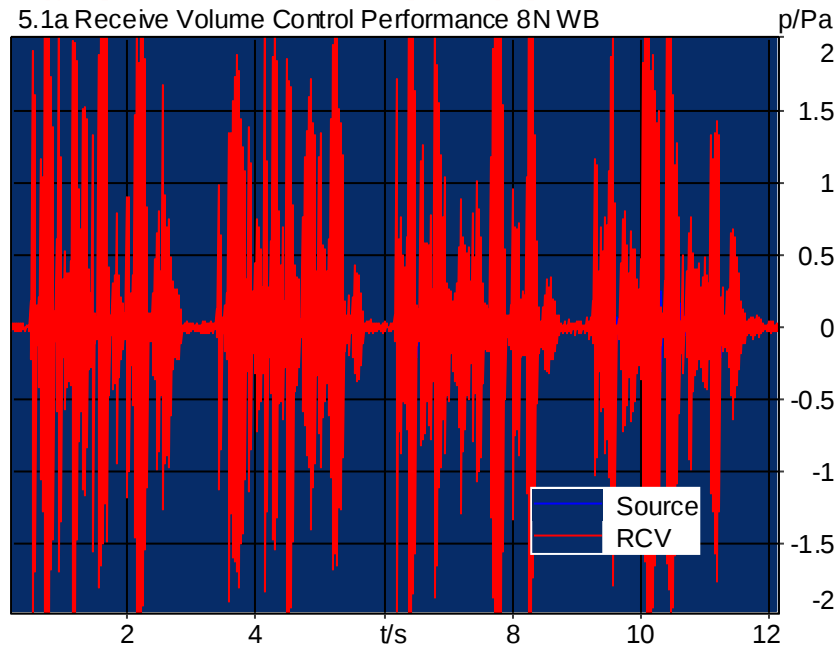
Channel	Delay	Correlation
RCV*Source	206.6 ms	59.59 %

2026-02-12 下午 04:51 ACQUA 6.2.200

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	84.44 dB[SPL]	83.92%	Ok

Ok

2026-02-12 下午 04:52 ACQUA 6.2.200

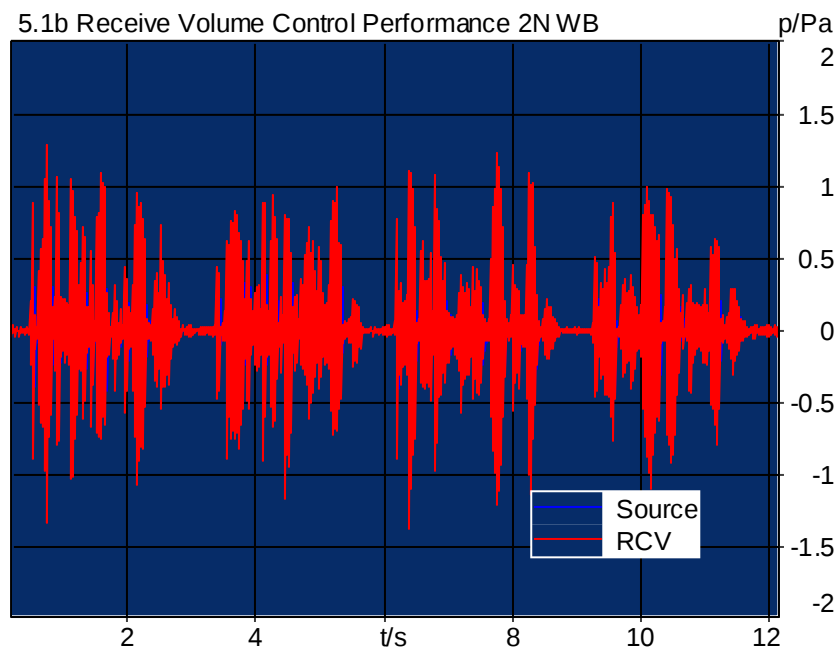
Limits

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	77.22 dB[SPL]	84.36%	Ok

Ok

2026-02-12 下午 04:53 ACQUA 6.2.200

Limits

lower
76.00 dB[SPL]



#8 WiFi 5GHz EVS NB 5.9kbps

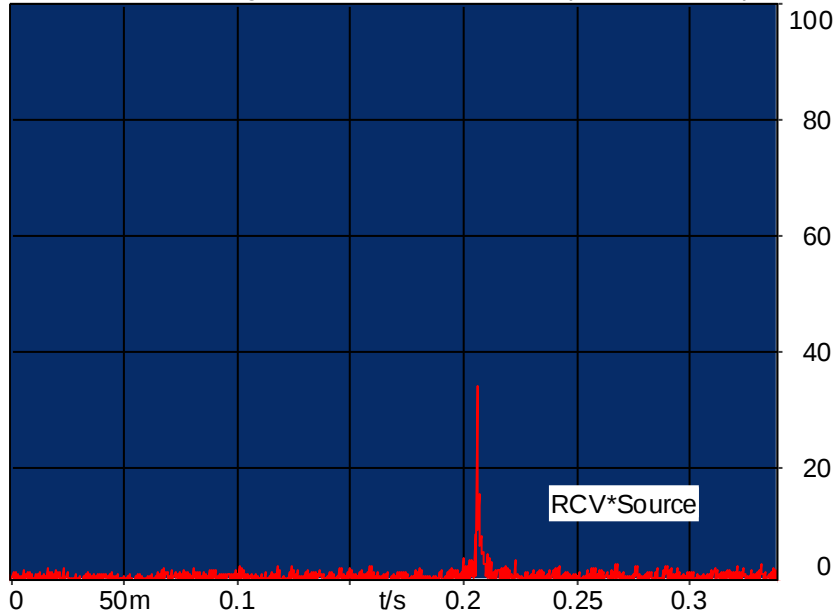
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	206.7
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	84.53
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	78.08



Overall Receive Delay NB

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

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



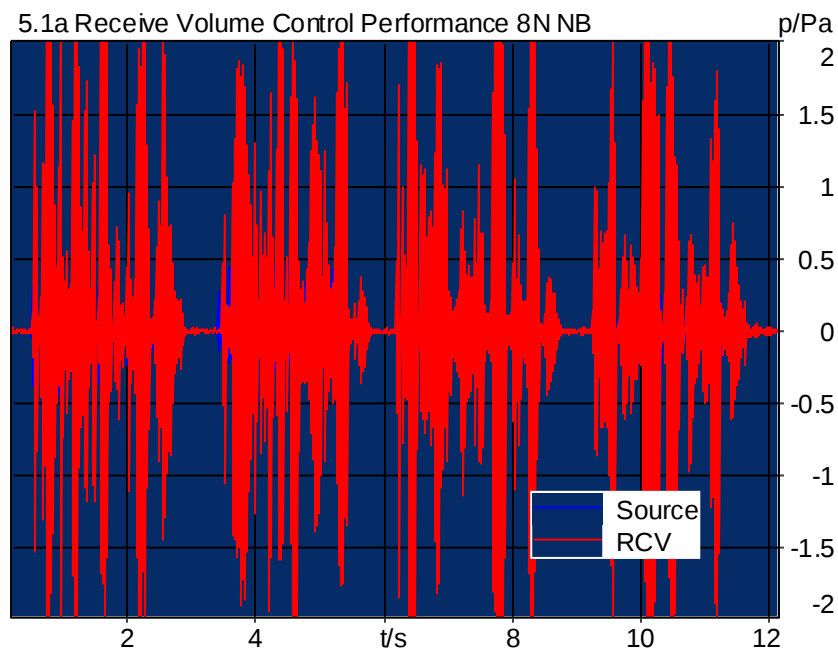
Channel	Delay	Correlation
RCV*Source	206.7 ms	34.23 %

2026-02-07 上午 02:16 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	84.53 dB[SPL]	83.76%	Ok

Ok

2026-02-07 上午 02:18 ACQUA 6.1.110

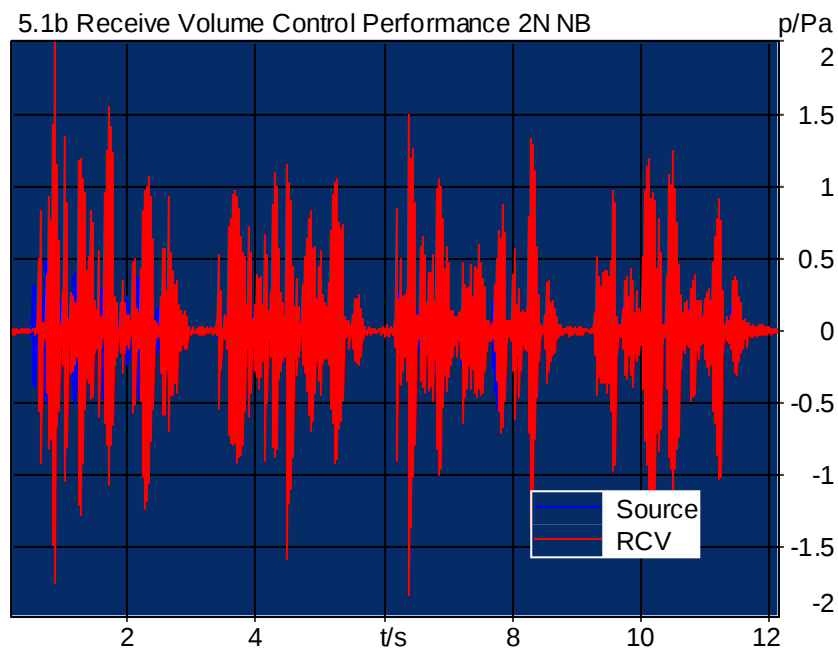
Limits

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	78.08 dB[SPL]	84.61%	Ok

Ok

2026-02-07 上午 02:16 ACQUA 6.1.110

Limits

lower
76.00 dB[SPL]