

Measurement Protocol

Measurement Object	LTE 7 20M QPSK EVS-NB 24.4kbps
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Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-03 ☐ ☐ 05:40
Responsible Person	ac01-hy

Status Overview

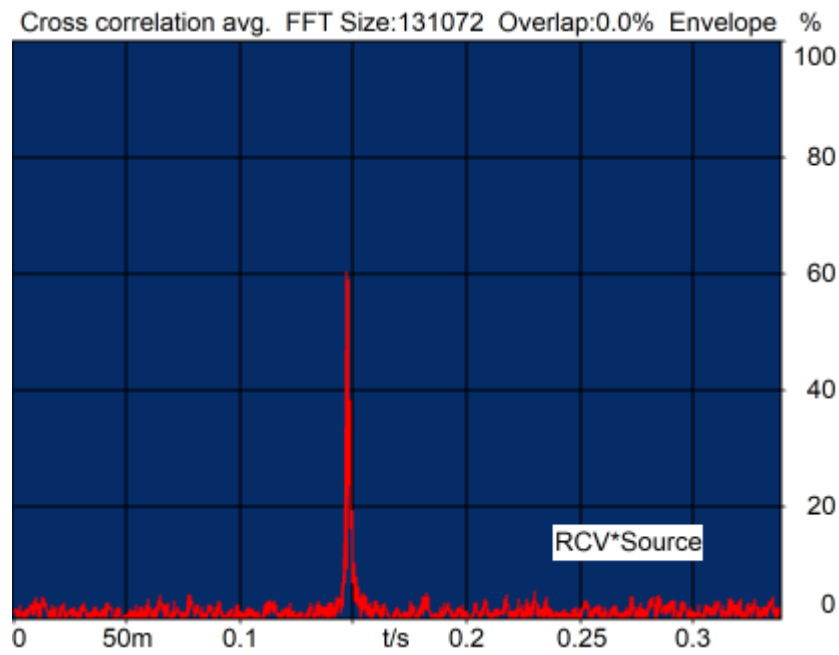
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	147.6	LTE 7 20M QPSK EVS-NB 24.4kbps
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.86	LTE 7 20M QPSK EVS-NB 24.4kbps
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.22	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.80	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.92	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.09	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.52	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.50	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.35	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.55	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.50	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.37	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.49	LTE 7 20M QPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	25.50	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.48	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.82	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.54	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.53	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.67	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.03	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.31	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.06	LTE 7 20M QPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.15	LTE 7 20M QPSK EVS-NB 24.4kbps

5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.59	LTE 7 20M QPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	24.06	LTE 7 20M QPSK EVS-NB 24.4kbps
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 462.0 Hz	3.20	LTE 7 20M QPSK EVS-NB 24.4kbps
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	2.84	LTE 7 20M QPSK EVS-NB 24.4kbps
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	2.10	LTE 7 20M QPSK EVS-NB 24.4kbps
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	1.27	LTE 7 20M QPSK EVS-NB 24.4kbps

Overall Receive Delay NB	6
5.1a Receive Volume Control Performance 8N NB	7
5.1b Receive Volume Control Performance 2N NB	8
5.2 RCV Distortion and Noise - 400 Hz 8N NB	9
5.2 RCV Distortion and Noise - 500 Hz 8N NB	10
5.2 RCV Distortion and Noise - 630 Hz 8N NB	11
5.2 RCV Distortion and Noise - 800 Hz 8N NB	12
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	13
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	14
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	15
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	16
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	17
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	18
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	19
5.2 RCV Distortion and Noise - 400 Hz 2N NB	20
5.2 RCV Distortion and Noise - 500 Hz 2N NB	21
5.2 RCV Distortion and Noise - 630 Hz 2N NB	22
5.2 RCV Distortion and Noise - 800 Hz 2N NB	23
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	24
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	25
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	26
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	27
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	28
5.2 RCV Distortion and Noise - 3150 Hz 2N NB	29
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	30
5.3 Frequency Response 8N FF HANB	31
5.3 Frequency Response 2N FF HANB	32
5.3 Frequency Response 8N DF HANB	33
5.3 Frequency Response 2N DF HANB	34

Overall Receive Delay NB

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

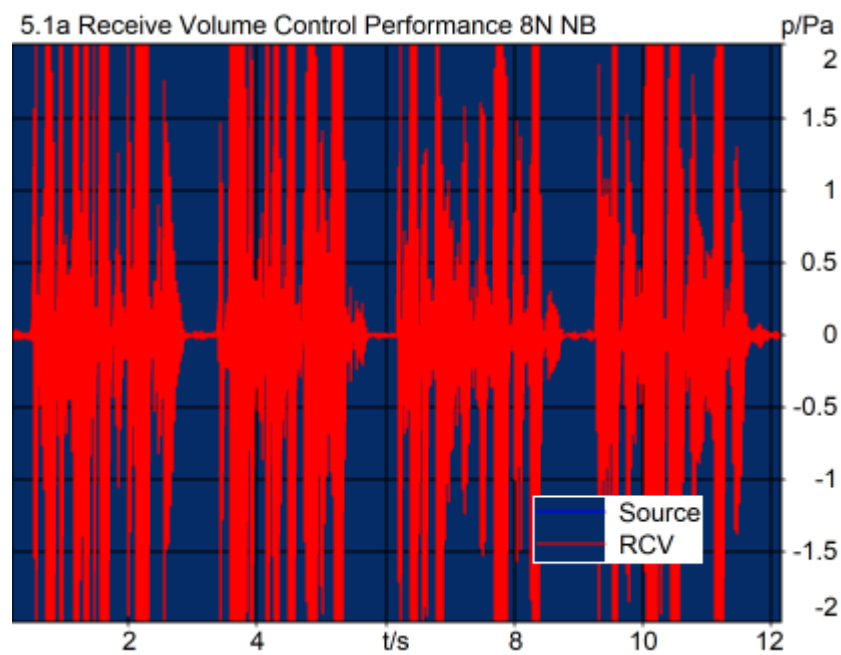


Channel	Delay	Correlation
RCV*Source	147.6 ms	60.38 %

2026-09-03 05:25 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	89.86 dB[SPL]	80.67%	Ok

Ok

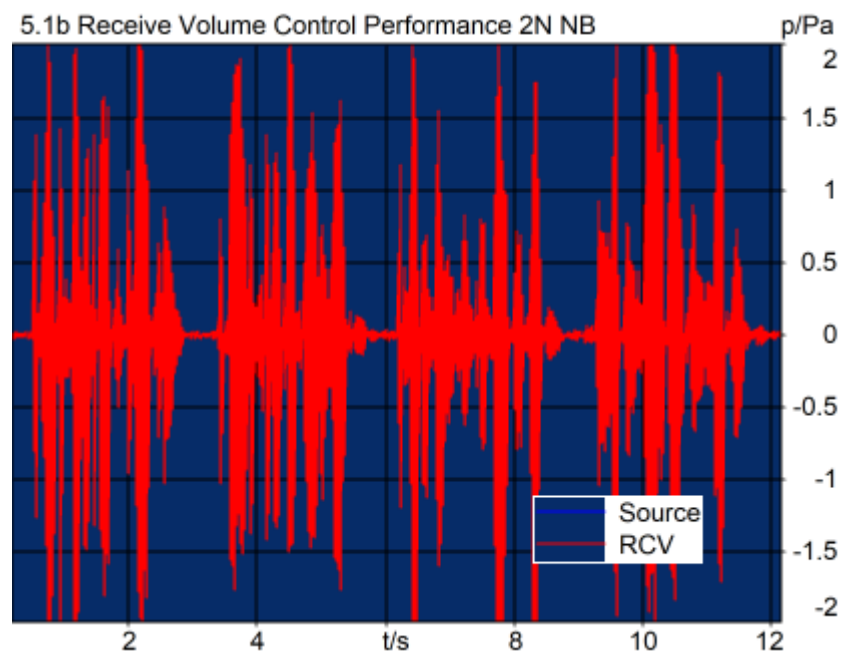
2026-09-03 05:25 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	84.22 dB[SPL]	80.70%	Ok

Ok

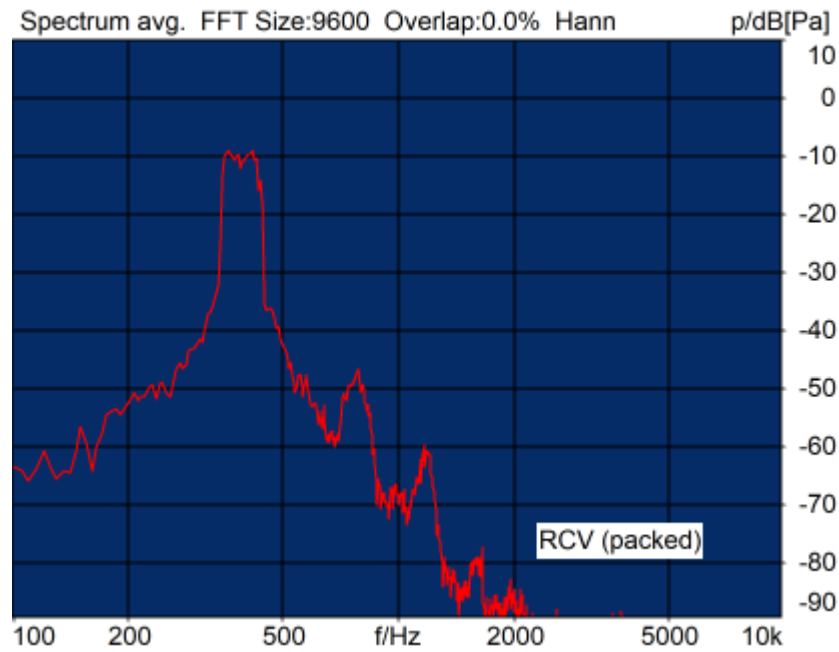
2026-09-03 05:32 ACQUA 6.2.210

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): 33.80 dB (2.04%) Ok

Ok

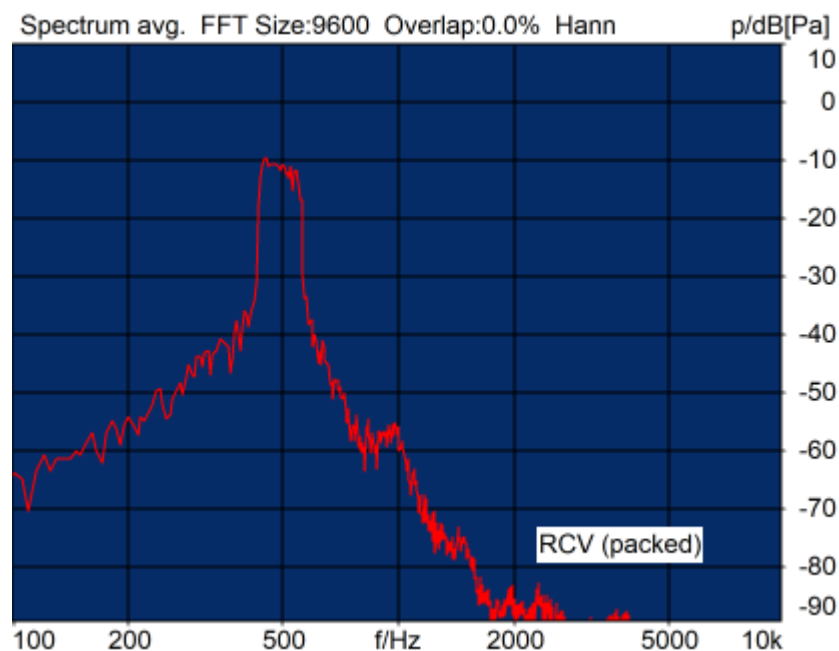
2026-09-03 05:26 ACQUA 6.2.210

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): 31.92 dB (2.53%) Ok

Ok

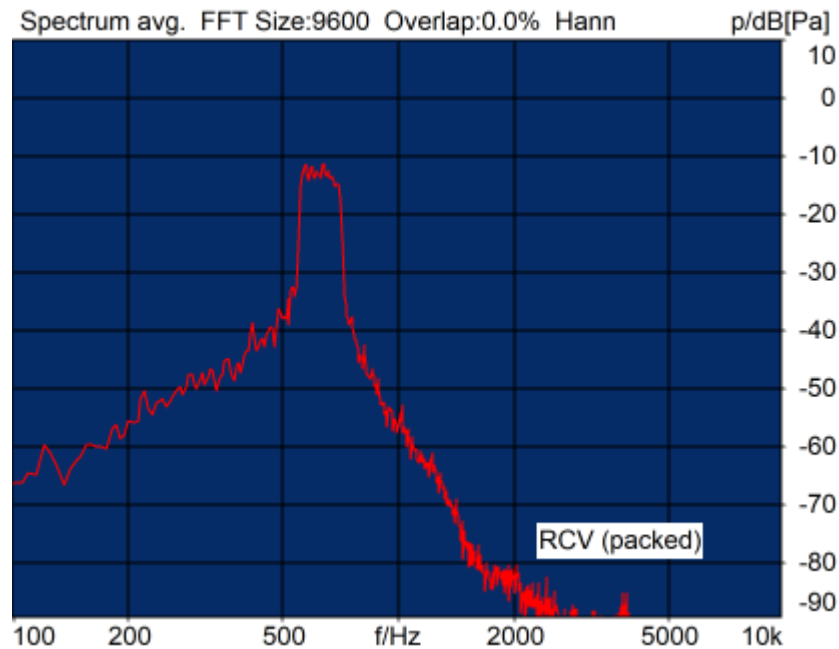
2026-09-03 05:26 ACQUA 6.2.210

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): 28.09 dB (3.94%) Ok

Ok

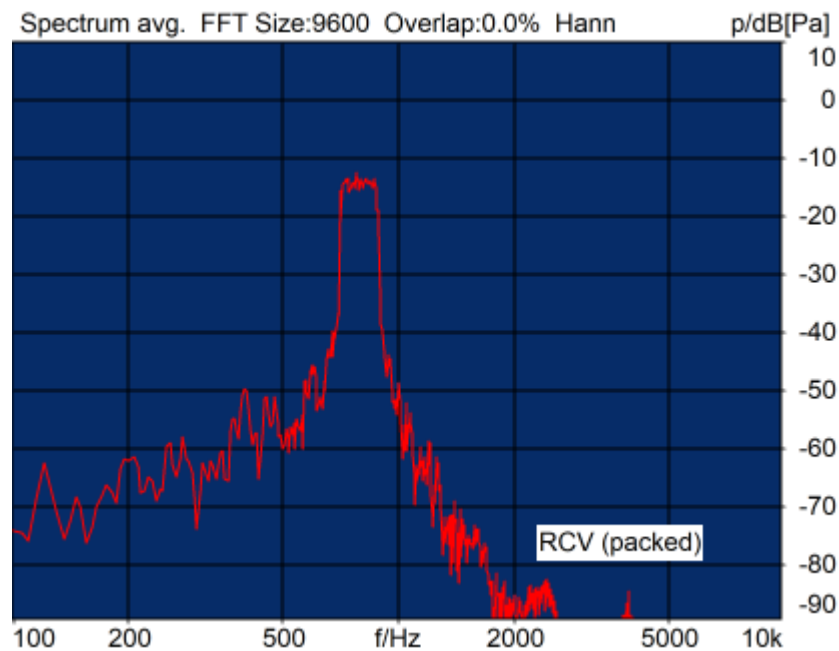
2026-09-03 05:27 ACQUA 6.2.210

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): 33.52 dB (2.11%) Ok

Ok

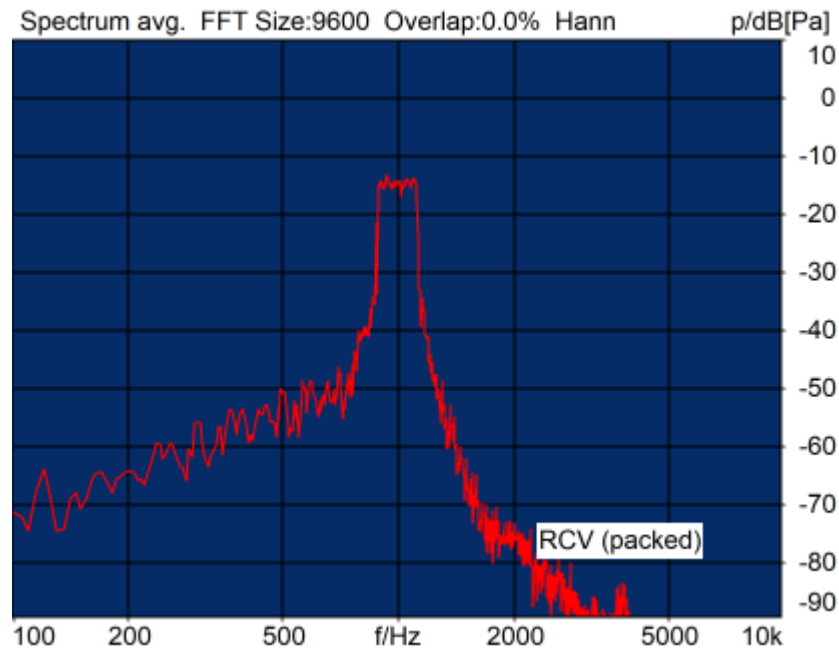
2026-09-03 05:27 ACQUA 6.2.210

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): 27.50 dB (4.22%) Ok

Ok

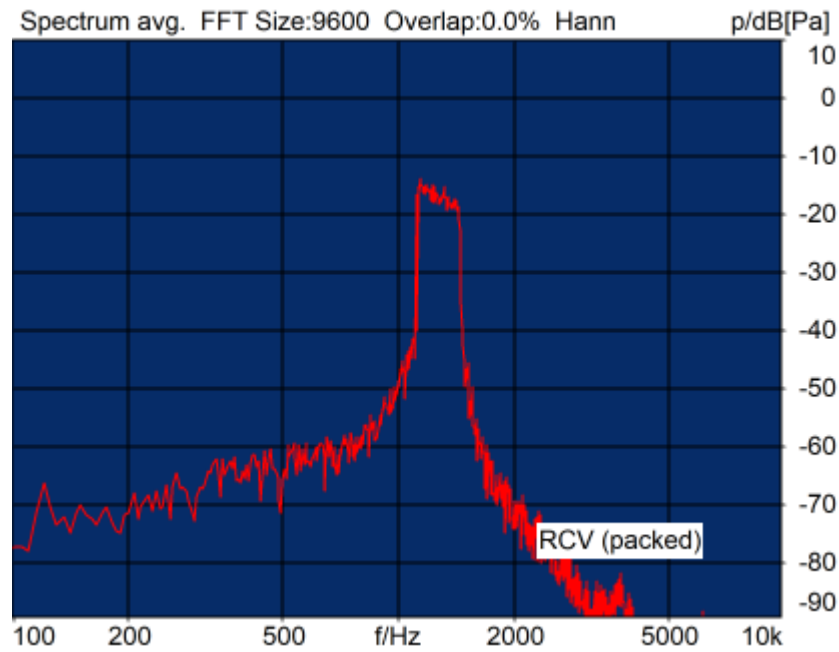
2026-09-03 05:28 ACQUA 6.2.210

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): 29.35 dB (3.41%) Ok

Ok

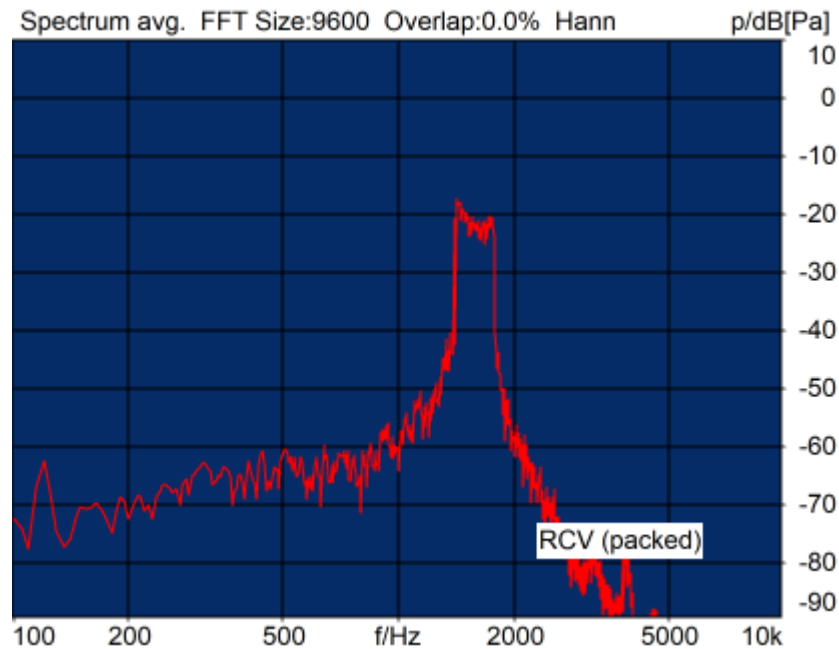
2026-09-03 05:28 ACQUA 6.2.210

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): 26.55 dB (4.70%) Ok

Ok

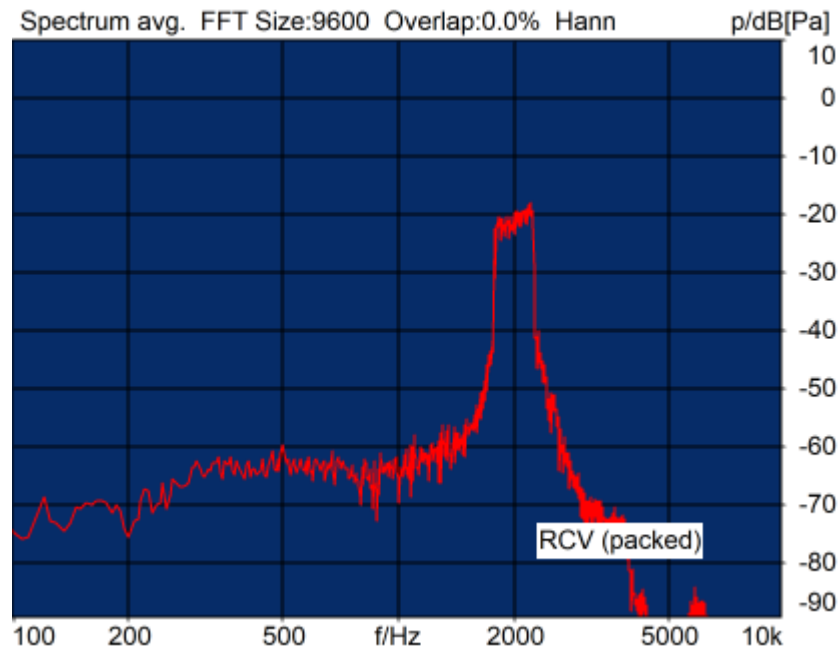
2026-09-03 05:29 ACQUA 6.2.210

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): 25.50 dB (5.31%) Ok

Ok

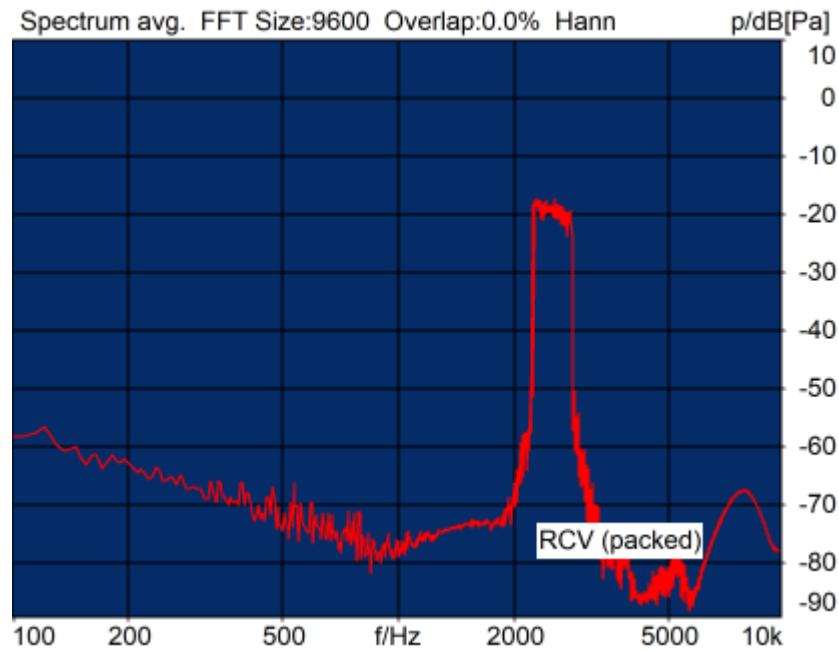
2026-09-03 05:29 ACQUA 6.2.210

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): 39.37 dB (1.07%) Ok

Ok

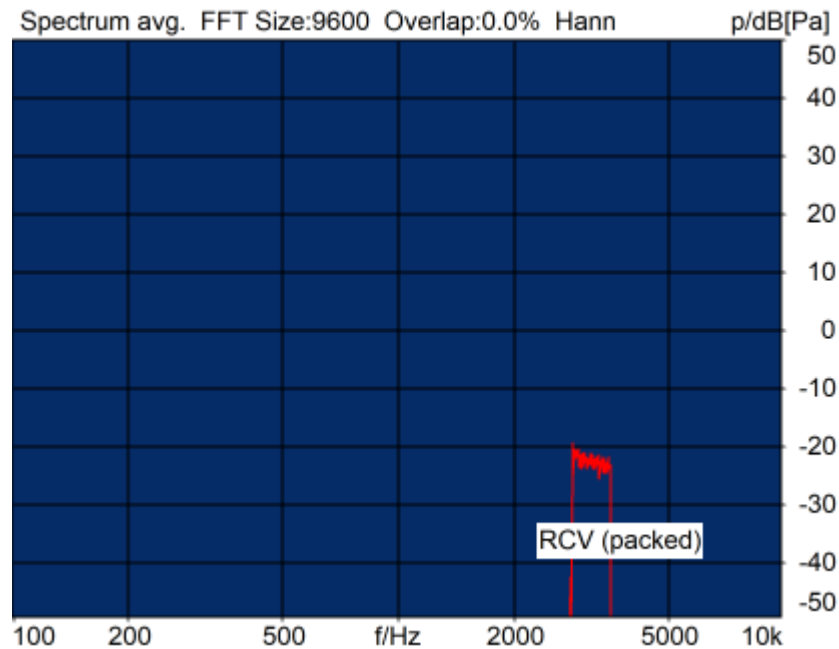
2026-09-03 05:30 ACQUA 6.2.210

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): 43.49 dB (0.67%) Ok

Ok

2026-09-03 05:30 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	33.80 dB
2	500Hz	31.92 dB
3	630Hz	28.09 dB
4	800Hz	33.52 dB
5	1000Hz	27.50 dB
6	1250Hz	29.35 dB
7	1600Hz	26.55 dB
8	2000Hz	25.50 dB
9	2500Hz	39.37 dB
10	3150Hz	43.49 dB

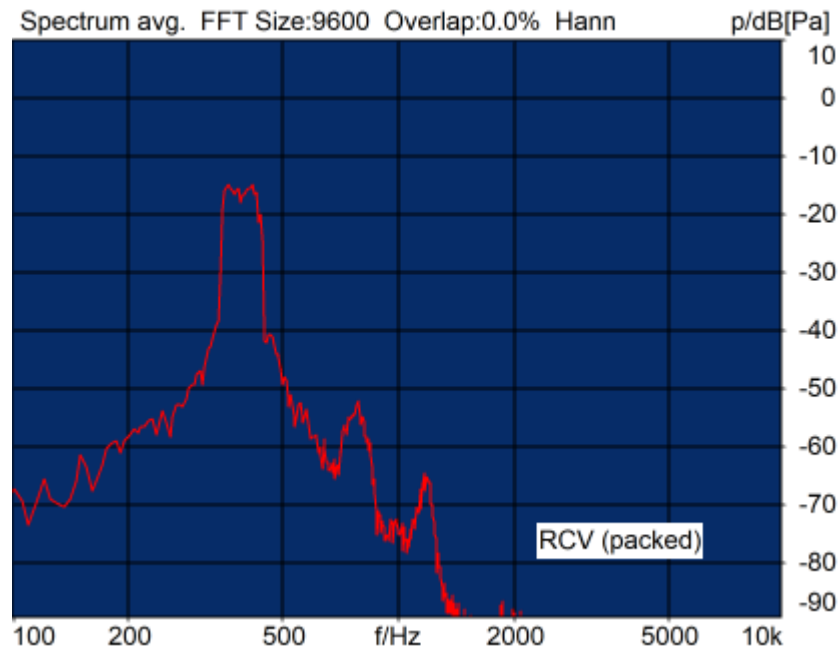
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.50dB at 2000Hz.

2026-09-03 05:30 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): 33.48 dB (2.12%) Ok

Ok

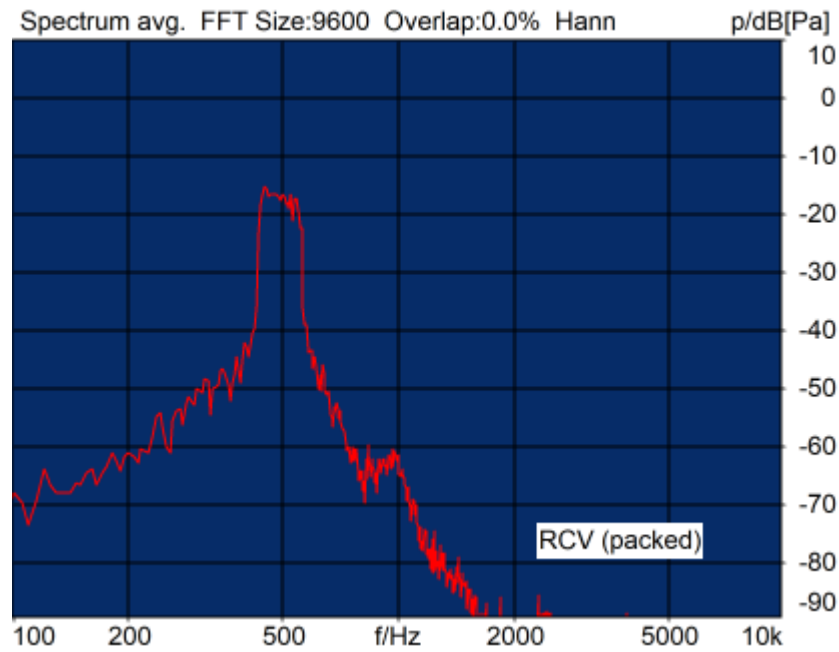
2026-09-03 05:32 ACQUA 6.2.210

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): 31.82 dB (2.57%) Ok

Ok

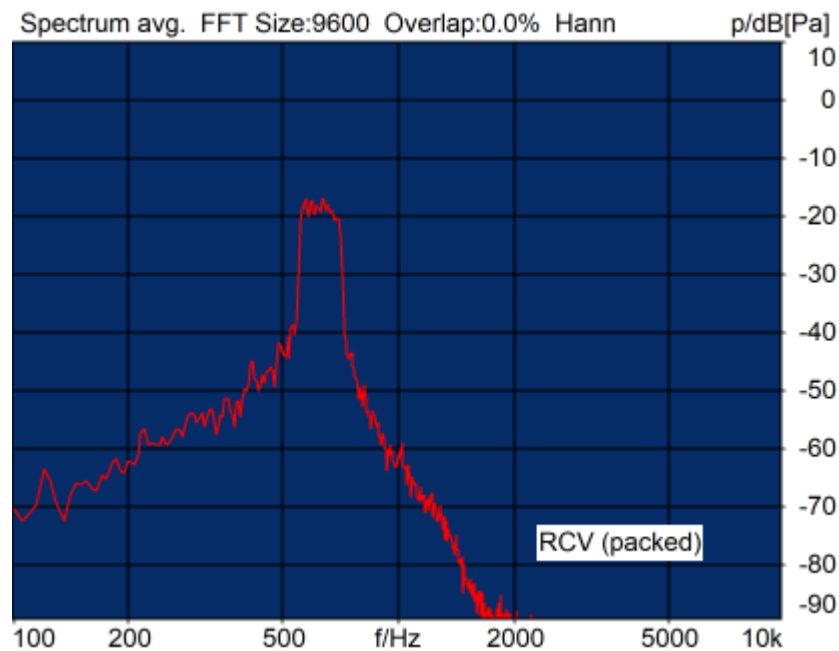
2026-09-03 05:33 ACQUA 6.2.210

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): 28.54 dB (3.74%) Ok

Ok

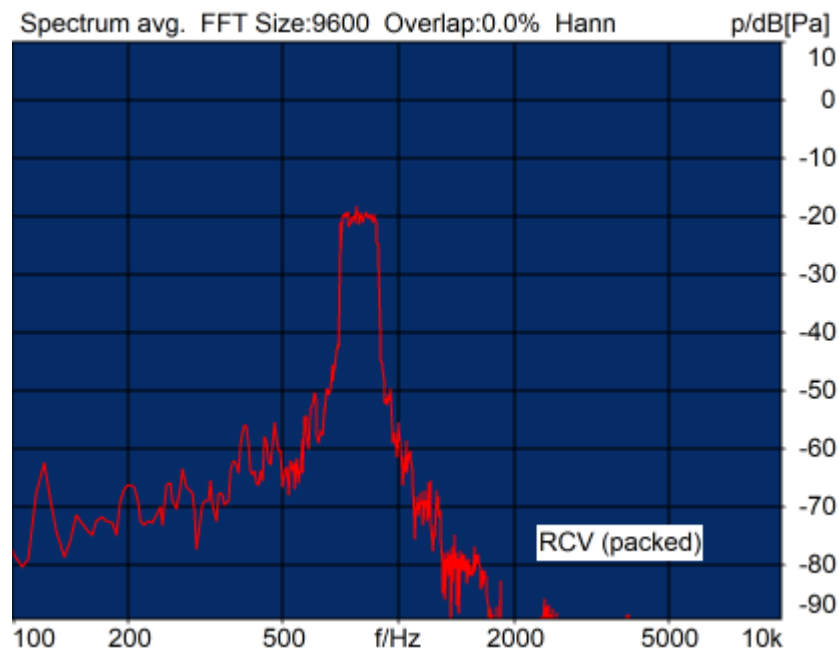
2026-09-03 05:33 ACQUA 6.2.210

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): 33.53 dB (2.11%) Ok

Ok

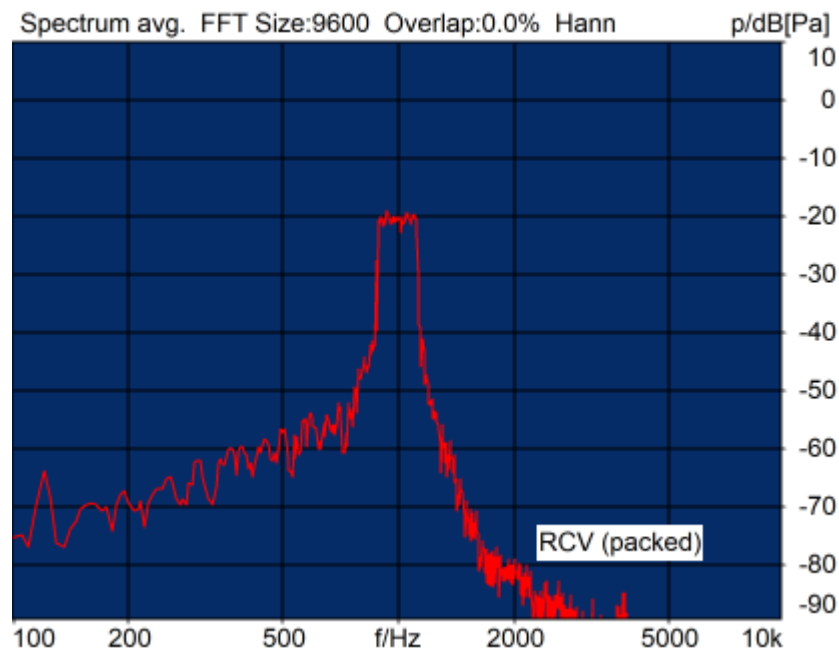
2026-09-03 05:34 ACQUA 6.2.210

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): 27.67 dB (4.13%) Ok

Ok

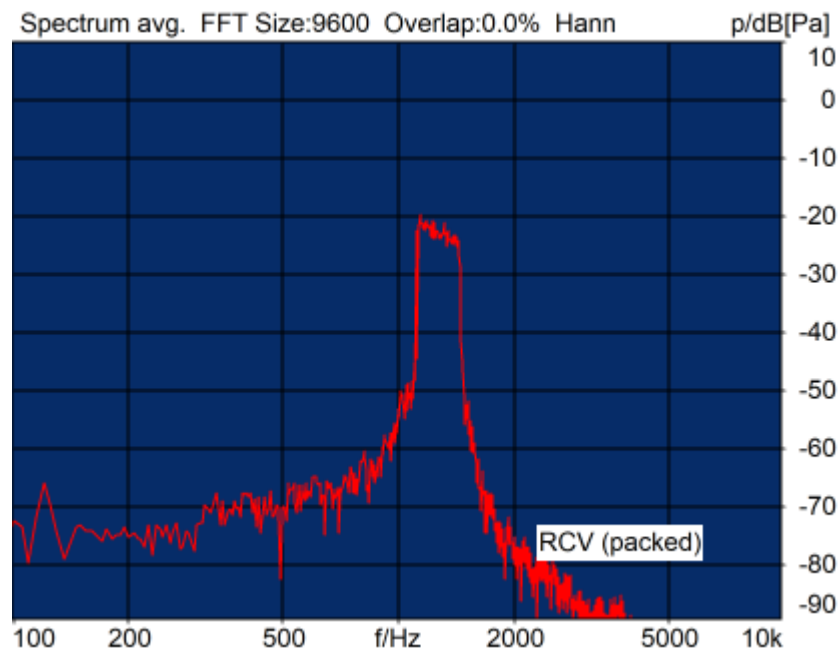
2026-09-03 05:34 ACQUA 6.2.210

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): 29.03 dB (3.53%) Ok

Ok

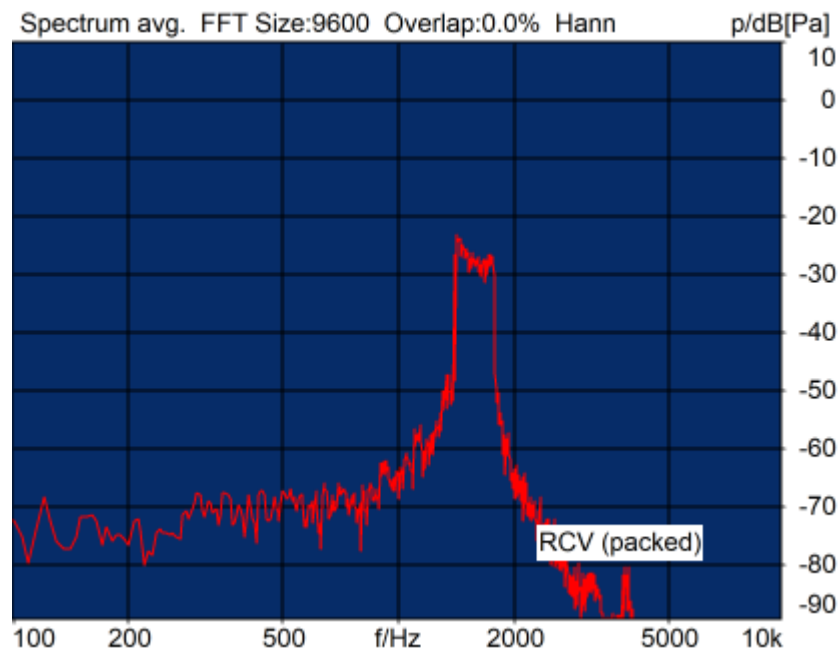
2026-09-03 05:35 ACQUA 6.2.210

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): 26.31 dB (4.84%) Ok

Ok

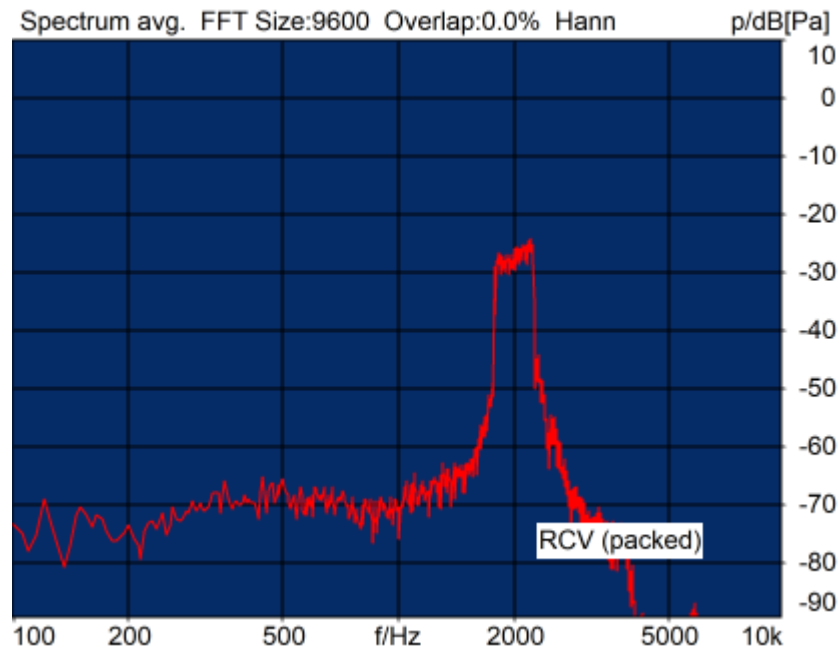
2026-09-03 05:35 ACQUA 6.2.210

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): 24.06 dB (6.26%) Ok

Ok

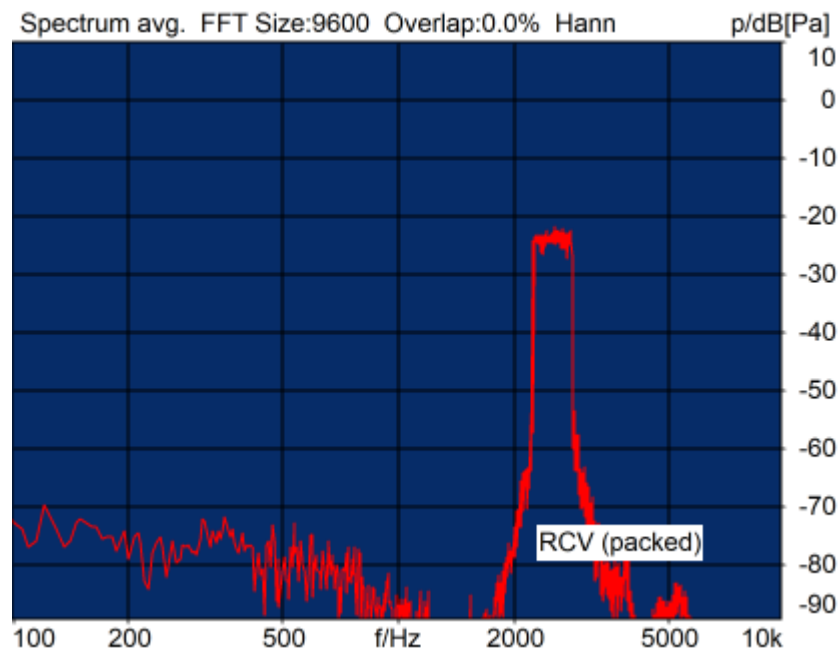
2026-09-03 05:36 ACQUA 6.2.210

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): 40.15 dB (0.98%) Ok

Ok

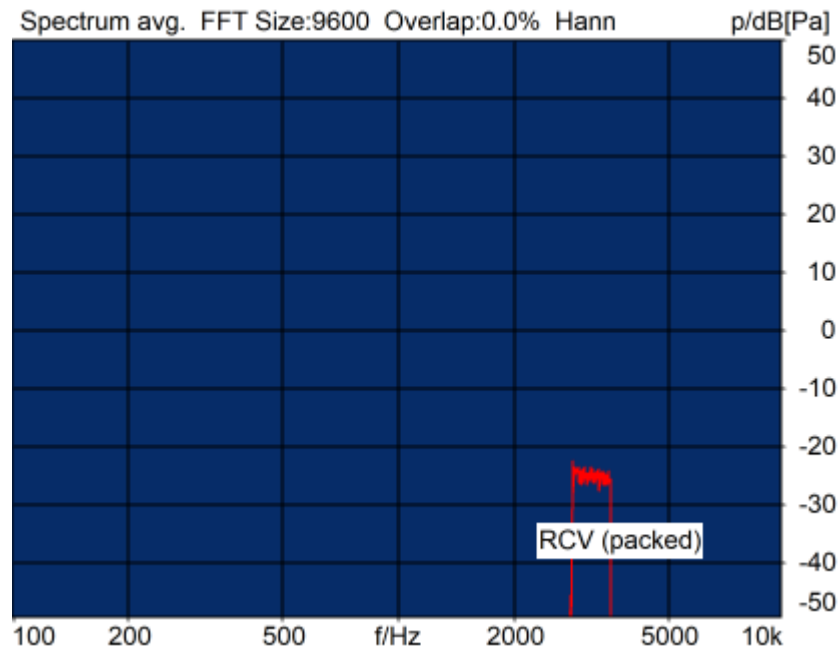
2026-09-03 05:36 ACQUA 6.2.210

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): 44.59 dB (0.59%) Ok

Ok

2026-09-03 05:37 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	33.48 dB
2	500Hz	31.82 dB
3	630Hz	28.54 dB
4	800Hz	33.53 dB
5	1000Hz	27.67 dB
6	1250Hz	29.03 dB
7	1600Hz	26.31 dB
8	2000Hz	24.06 dB
9	2500Hz	40.15 dB
10	3150Hz	44.59 dB

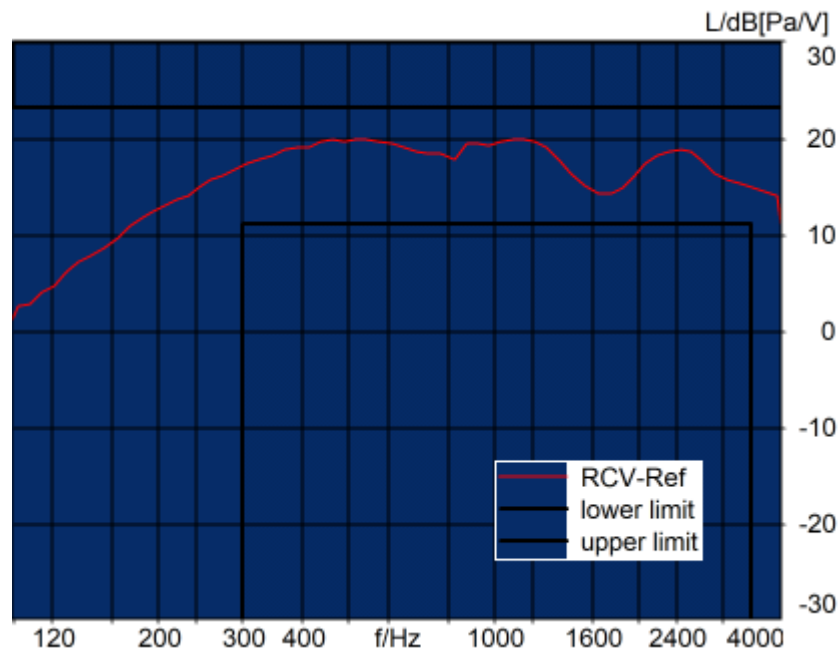
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 24.06dB at 2000Hz.

2026-09-03 05:37 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

3.20 dB at 462.0 Hz Ok

Ok

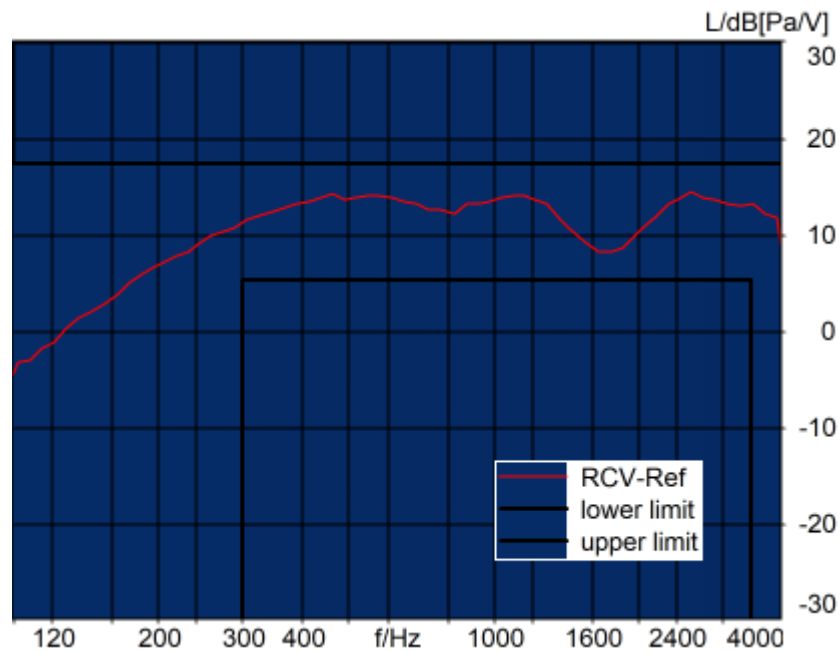
2026-09-03 05:31 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

2.84 dB at 2571.8 Hz Ok

Ok

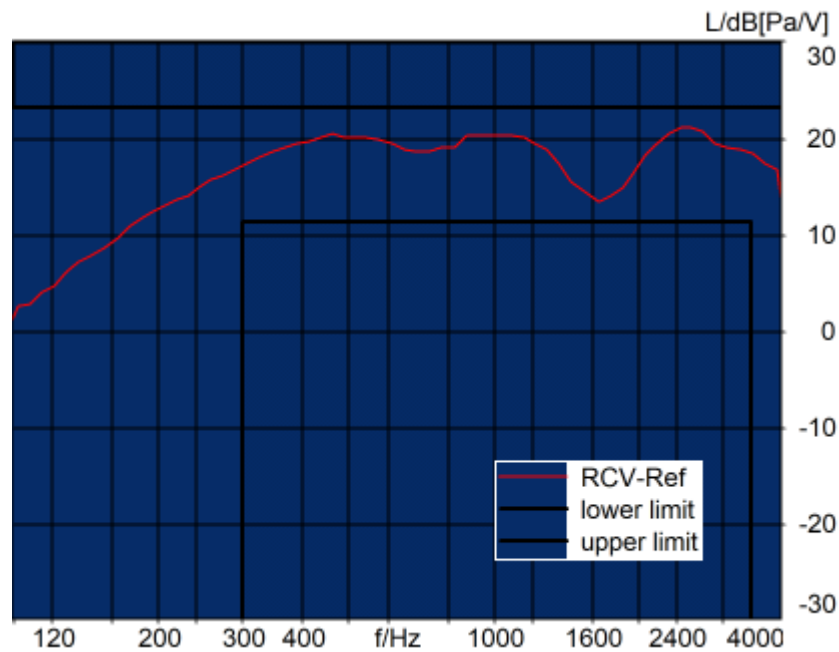
2026-09-03 05:37 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance

2.10 dB at 2571.8 Hz Ok

Ok

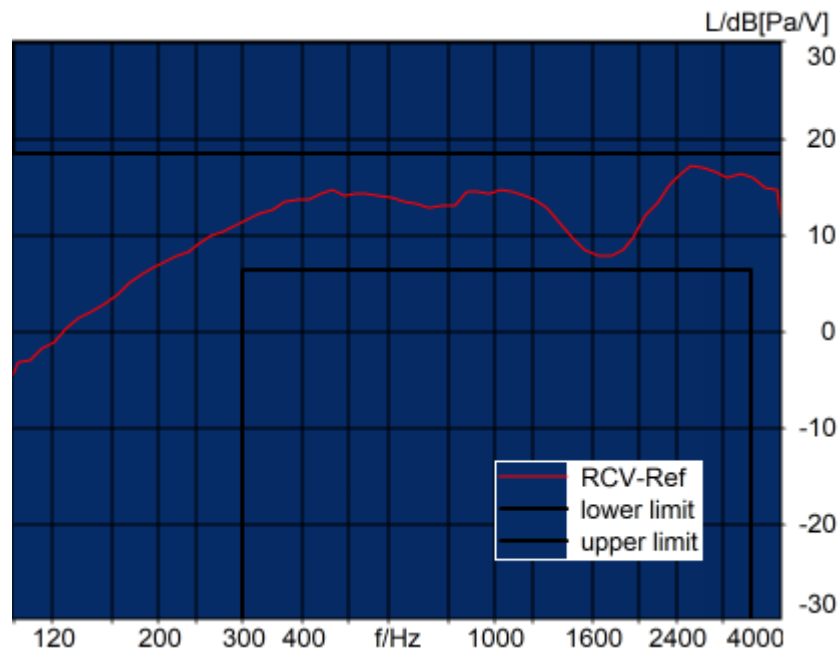
2026-09-03 05:31 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance

1.27 dB at 2571.8 Hz Ok

Ok

2026-09-03 05:38 ACQUA 6.2.210

Limits

lower
Fit into tolerance

Measurement Protocol

Measurement Object	N26 20M BPSK EVS-NB 24.4kbps
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Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-04 ☐ ☐ 03:22
Responsible Person	ac01-hy

Status Overview

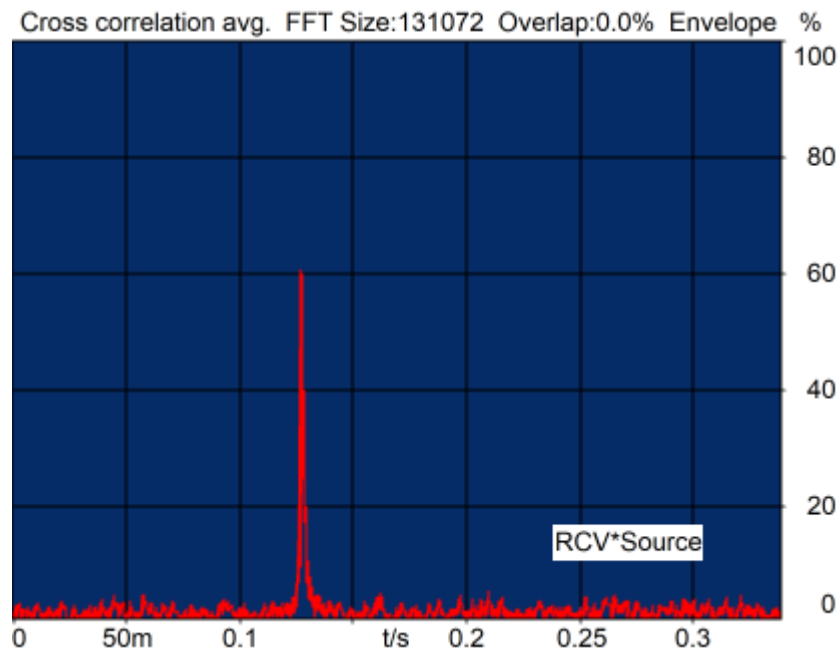
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	127.4	N26 20M BPSK EVS-NB 24.4kbps
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.53	N26 20M BPSK EVS-NB 24.4kbps
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.05	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.96	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.95	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.03	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.00	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.54	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.37	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.54	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.16	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.23	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.42	N26 20M BPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	25.16	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.34	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.20	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.12	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.56	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.34	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.56	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.22	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.48	N26 20M BPSK EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.76	N26 20M BPSK EVS-NB 24.4kbps

5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.42	N26 20M BPSK EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 2000Hz)	23.48	N26 20M BPSK EVS-NB 24.4kbps
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 462.0 Hz	3.05	N26 20M BPSK EVS-NB 24.4kbps
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	2.85	N26 20M BPSK EVS-NB 24.4kbps
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	2.08	N26 20M BPSK EVS-NB 24.4kbps
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2721.8 Hz	1.12	N26 20M BPSK EVS-NB 24.4kbps

Overall Receive Delay NB	6
5.1a Receive Volume Control Performance 8N NB	7
5.1b Receive Volume Control Performance 2N NB	8
5.2 RCV Distortion and Noise - 400 Hz 8N NB	9
5.2 RCV Distortion and Noise - 500 Hz 8N NB	10
5.2 RCV Distortion and Noise - 630 Hz 8N NB	11
5.2 RCV Distortion and Noise - 800 Hz 8N NB	12
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	13
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	14
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	15
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	16
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	17
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	18
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	19
5.2 RCV Distortion and Noise - 400 Hz 2N NB	20
5.2 RCV Distortion and Noise - 500 Hz 2N NB	21
5.2 RCV Distortion and Noise - 630 Hz 2N NB	22
5.2 RCV Distortion and Noise - 800 Hz 2N NB	23
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	24
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	25
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	26
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	27
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	28
5.2 RCV Distortion and Noise - 3150 Hz 2N NB	29
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	30
5.3 Frequency Response 8N FF HANB	31
5.3 Frequency Response 2N FF HANB	32
5.3 Frequency Response 8N DF HANB	33
5.3 Frequency Response 2N DF HANB	34

Overall Receive Delay NB

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

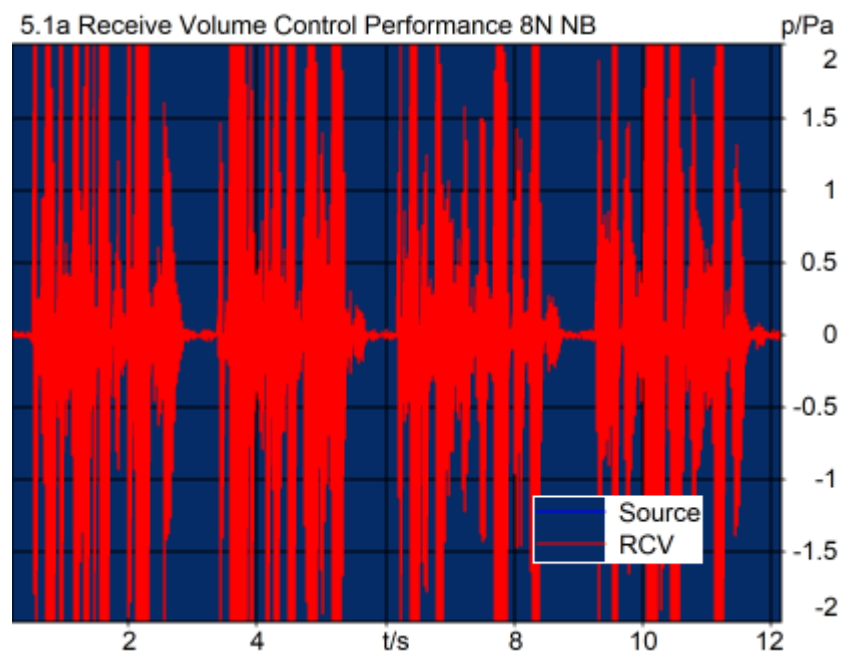


Channel	Delay	Correlation
RCV*Source	127.4 ms	60.84 %

2026-09-04 03:06 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	89.53 dB[SPL]	80.62%	Ok

Ok

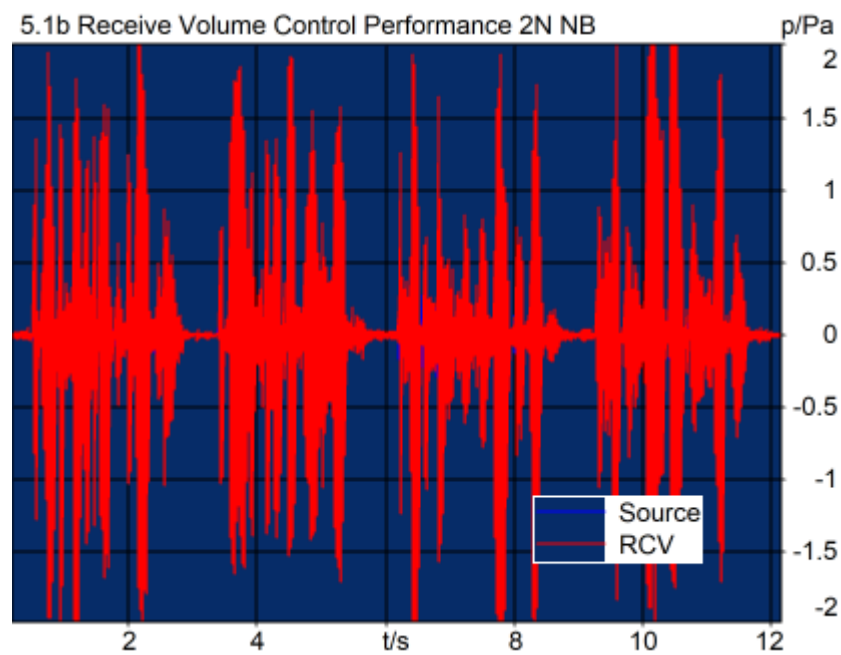
2026-09-04 03:06 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	84.05 dB[SPL]	80.62%	Ok

Ok

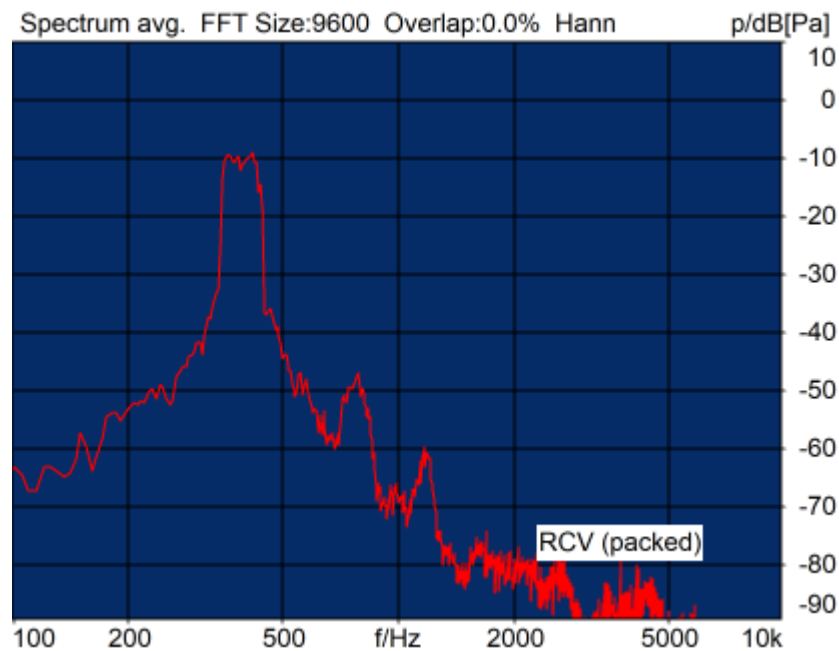
2026-09-04 03:13 ACQUA 6.2.210

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): 33.96 dB (2.01%) Ok

Ok

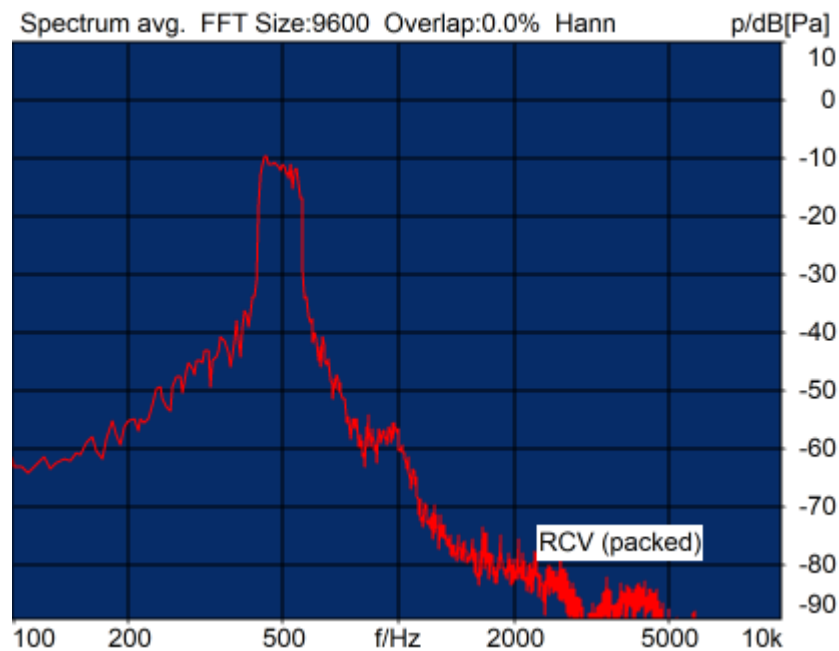
2026-09-04 03:07 ACQUA 6.2.210

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): 31.95 dB (2.53%) Ok

Ok

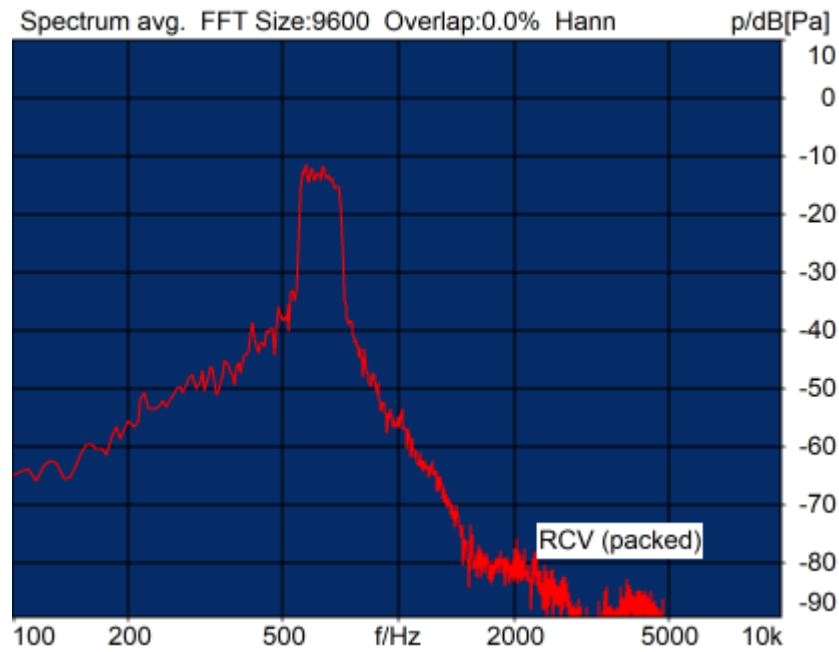
2026-09-04 03:07 ACQUA 6.2.210

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): 28.03 dB (3.97%) Ok

Ok

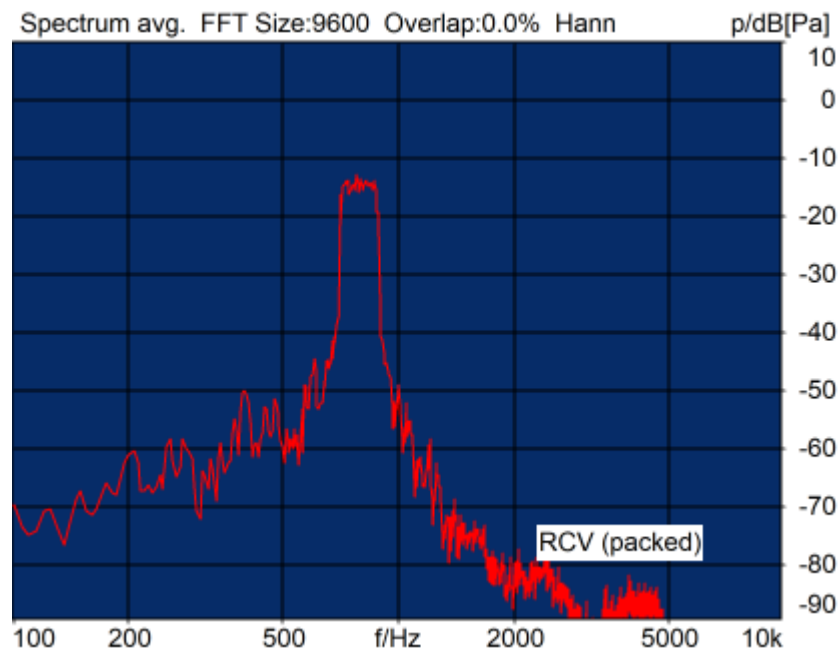
2026-09-04 03:08 ACQUA 6.2.210

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): 34.00 dB (2.00%) Ok

Ok

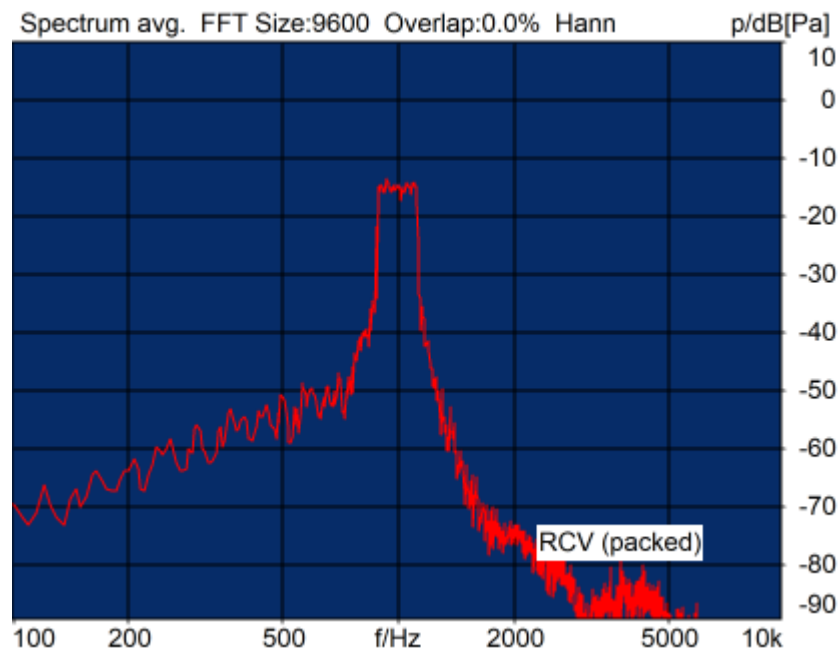
2026-09-04 03:08 ACQUA 6.2.210

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): 27.54 dB (4.20%) Ok

Ok

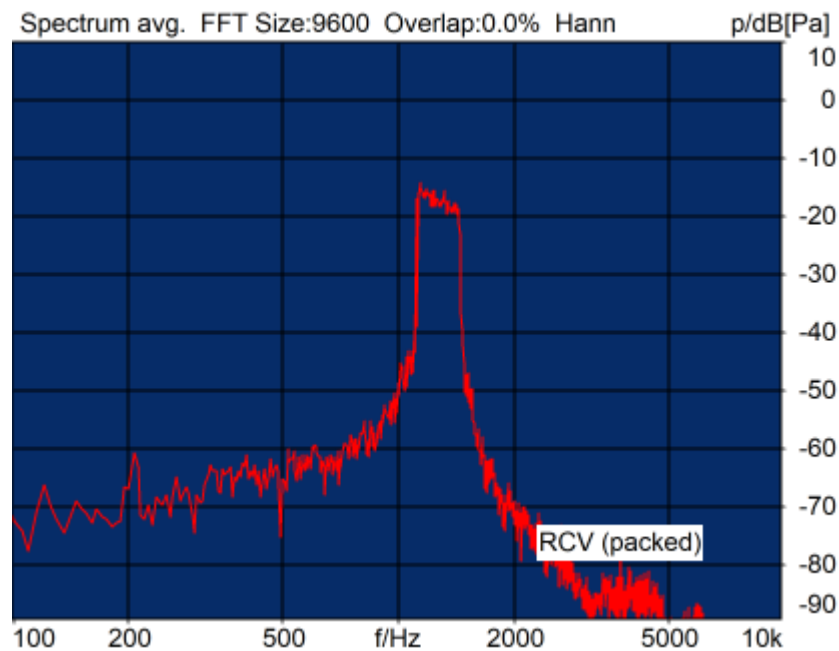
2026-09-04 03:09 ACQUA 6.2.210

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): 29.37 dB (3.40%) Ok

Ok

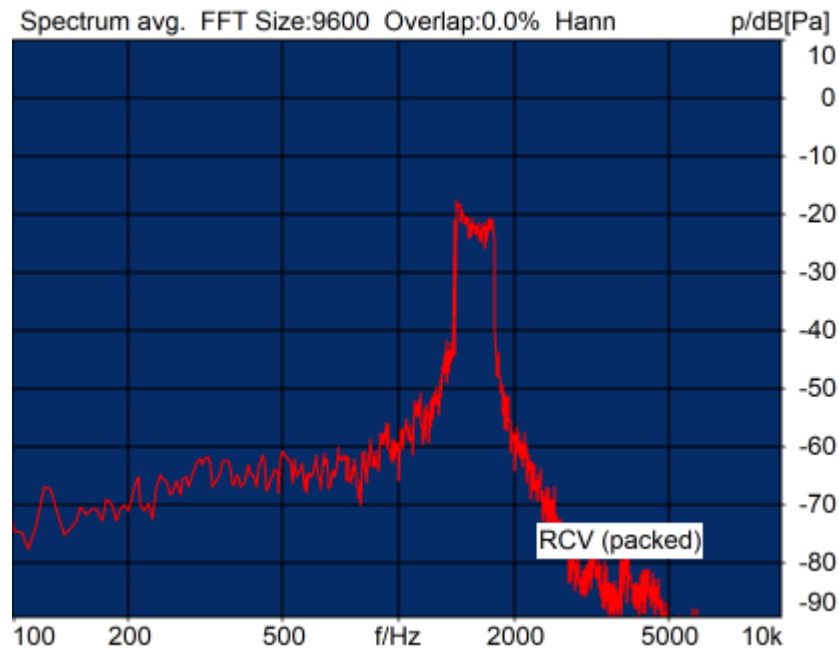
2026-09-04 03:09 ACQUA 6.2.210

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): 26.54 dB (4.71%) Ok

Ok

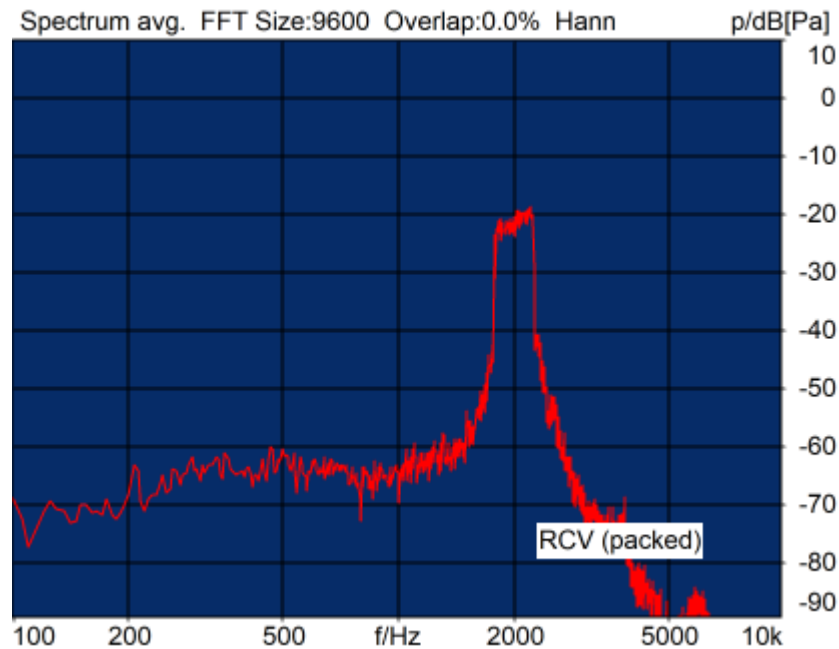
2026-09-04 03:10 ACQUA 6.2.210

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): 25.16 dB (5.52%) Ok

Ok

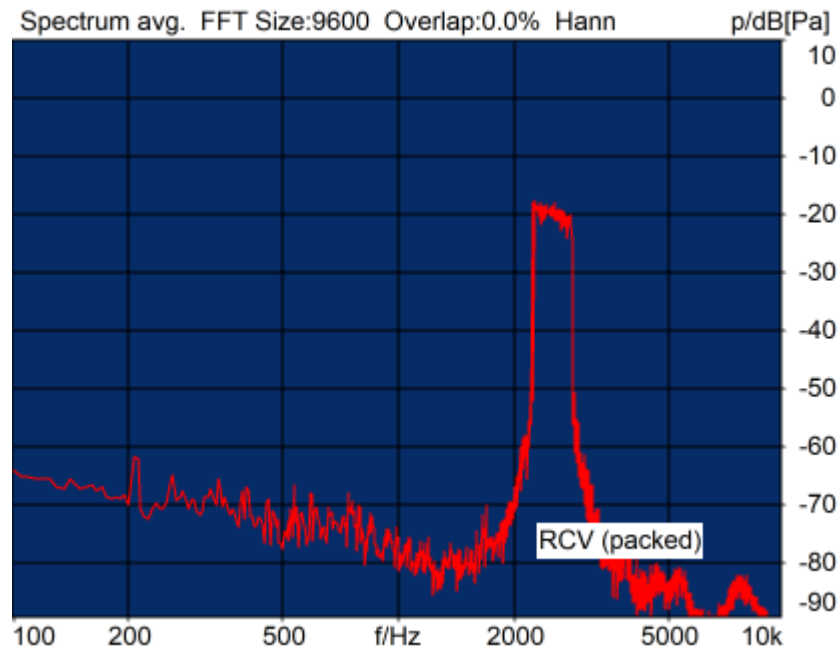
2026-09-04 03:10 ACQUA 6.2.210

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): 40.23 dB (0.97%) Ok

Ok

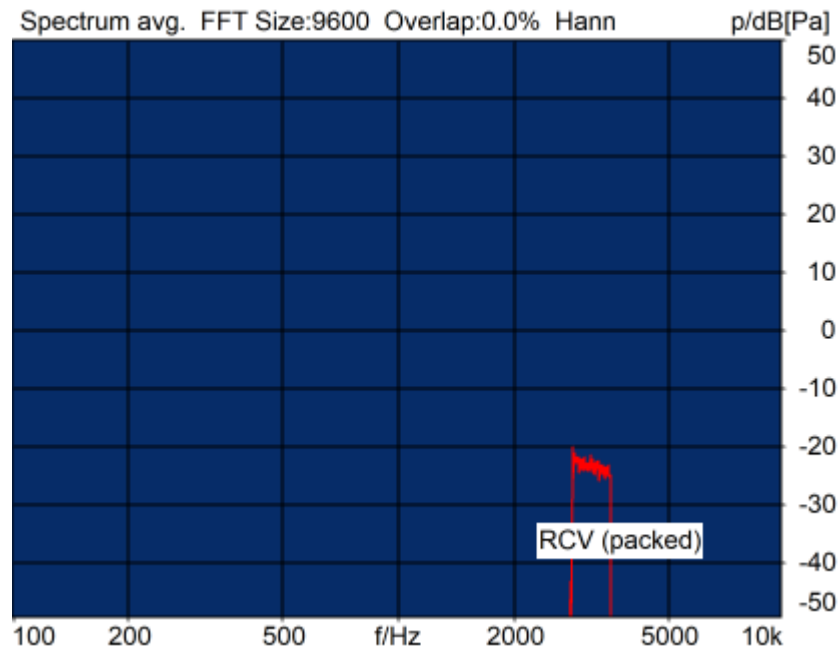
2026-09-04 03:11 ACQUA 6.2.210

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): 42.42 dB (0.76%) Ok

Ok

2026-09-04 03:11 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	33.96 dB
2	500Hz	31.95 dB
3	630Hz	28.03 dB
4	800Hz	34.00 dB
5	1000Hz	27.54 dB
6	1250Hz	29.37 dB
7	1600Hz	26.54 dB
8	2000Hz	25.16 dB
9	2500Hz	40.23 dB
10	3150Hz	42.42 dB

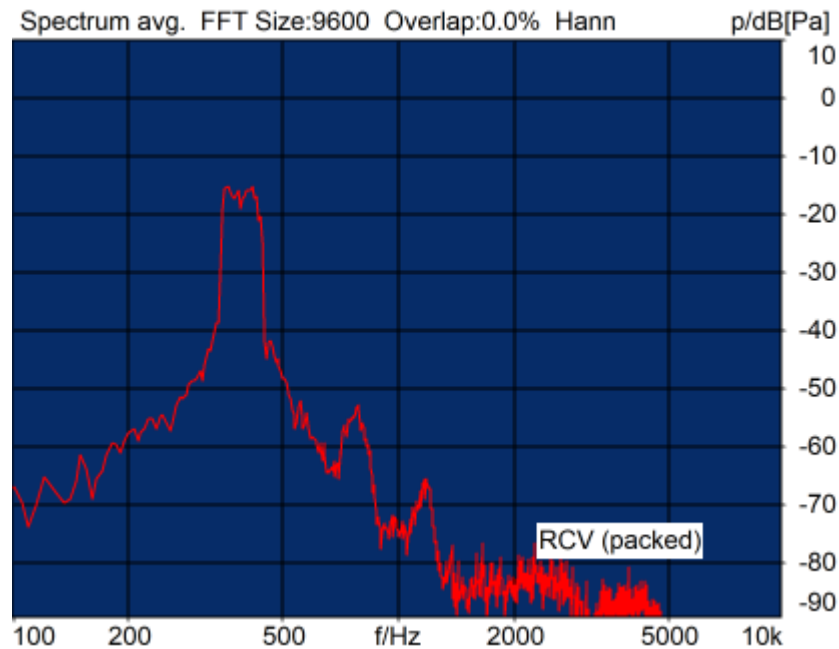
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.16dB at 2000Hz.

2026-09-04 03:11 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): 33.34 dB (2.15%) Ok

Ok

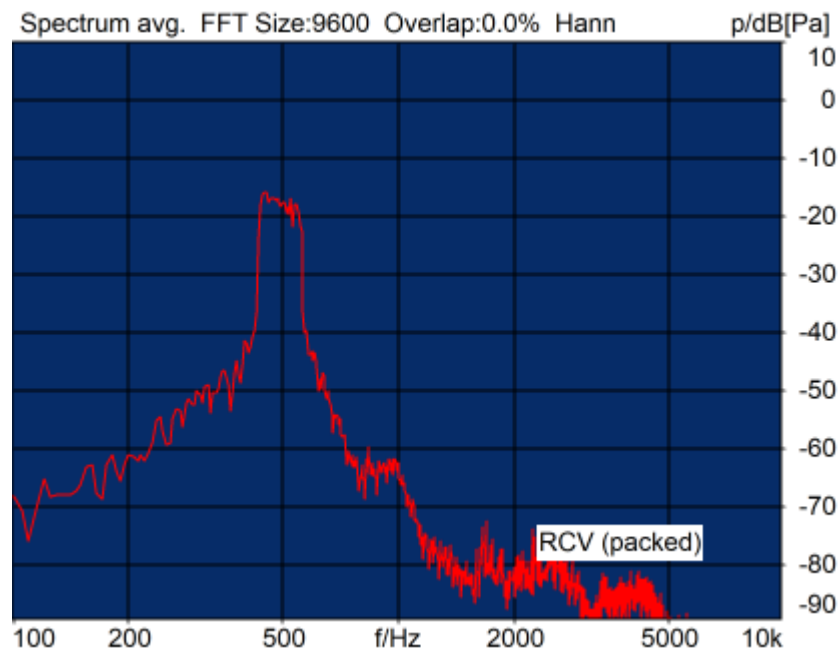
2026-09-04 03:14 ACQUA 6.2.210

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): 31.20 dB (2.75%) Ok

Ok

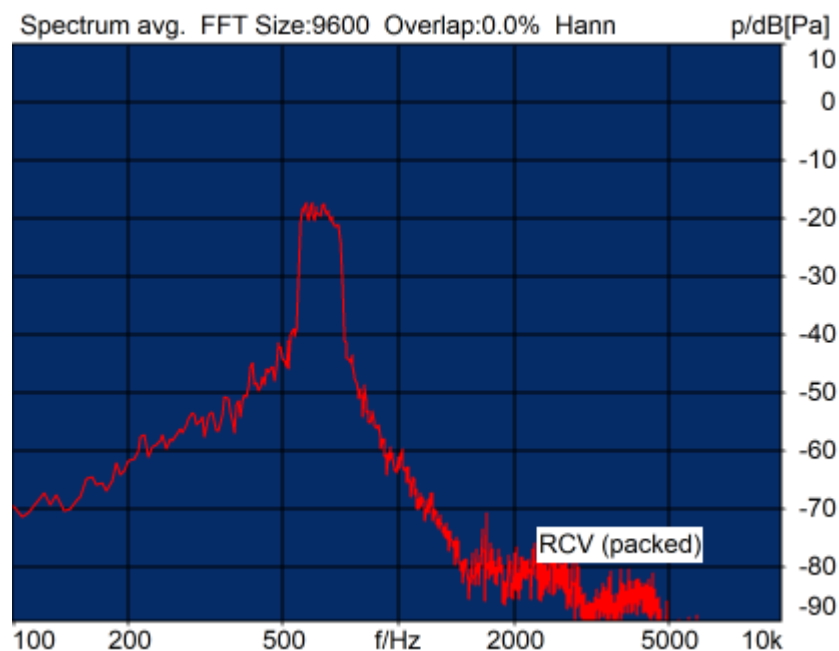
2026-09-04 03:14 ACQUA 6.2.210

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): 28.12 dB (3.93%) Ok

Ok

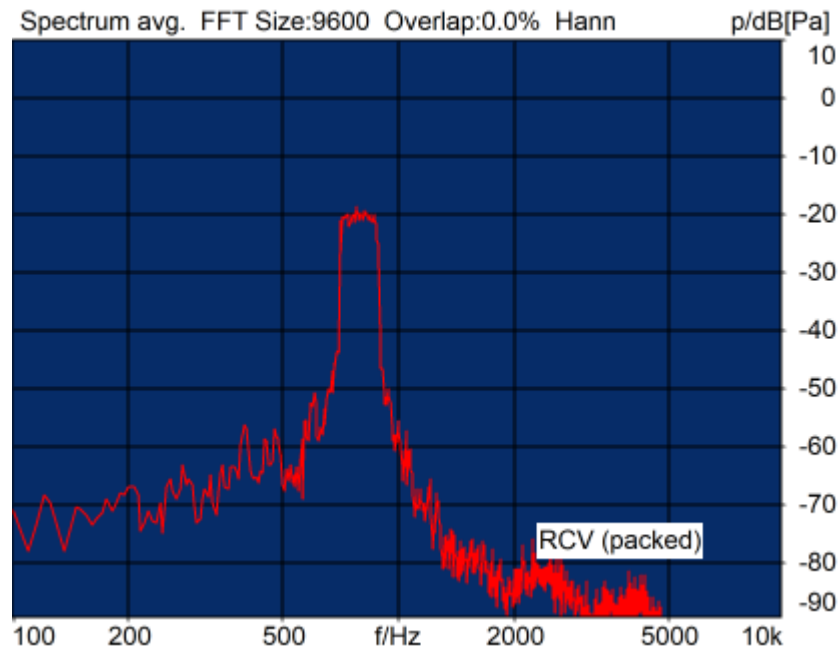
2026-09-04 03:15 ACQUA 6.2.210

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): 33.56 dB (2.10%) Ok

Ok

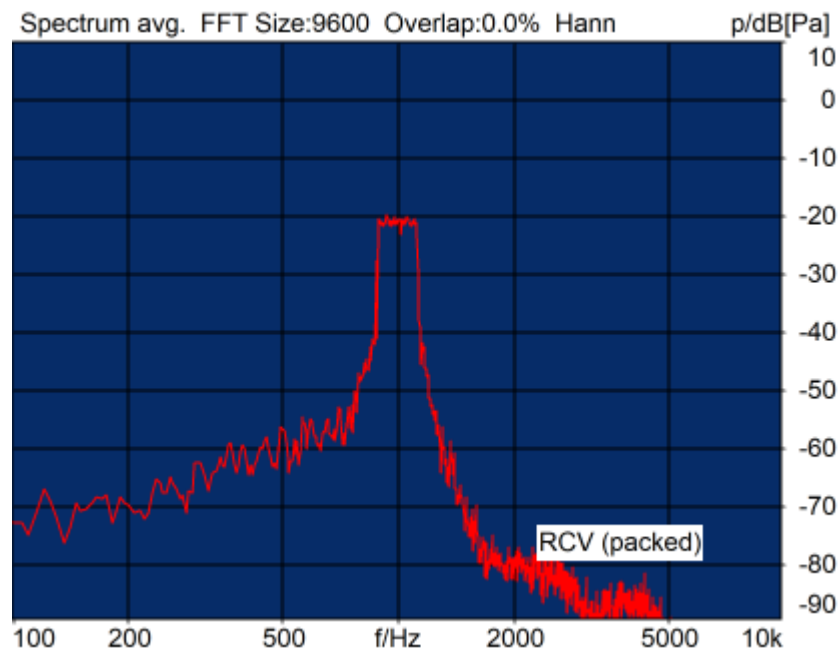
2026-09-04 03:15 ACQUA 6.2.210

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): 27.34 dB (4.29%) Ok

Ok

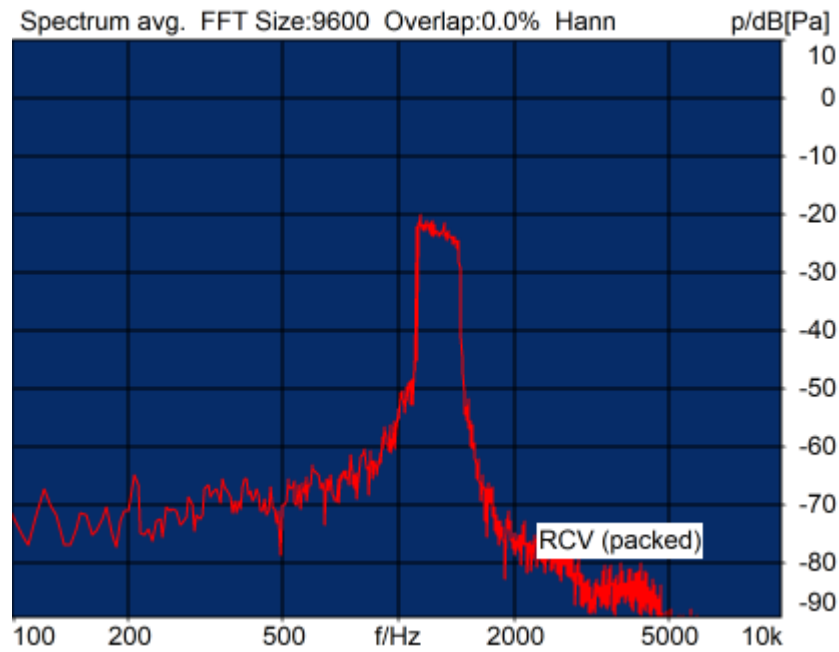
2026-09-04 03:16 ACQUA 6.2.210

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): 28.56 dB (3.73%) Ok

Ok

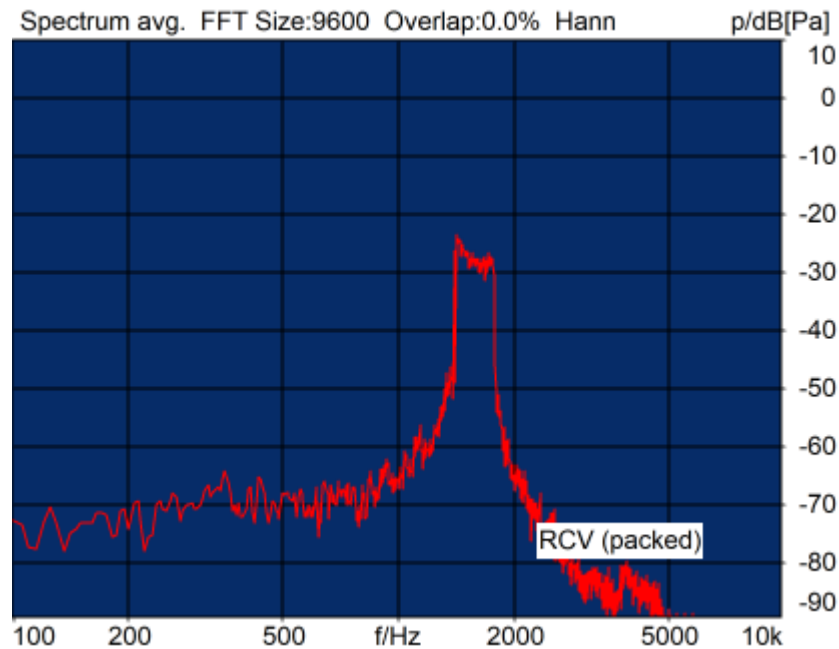
2026-09-04 03:16 ACQUA 6.2.210

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): 26.22 dB (4.88%) Ok

Ok

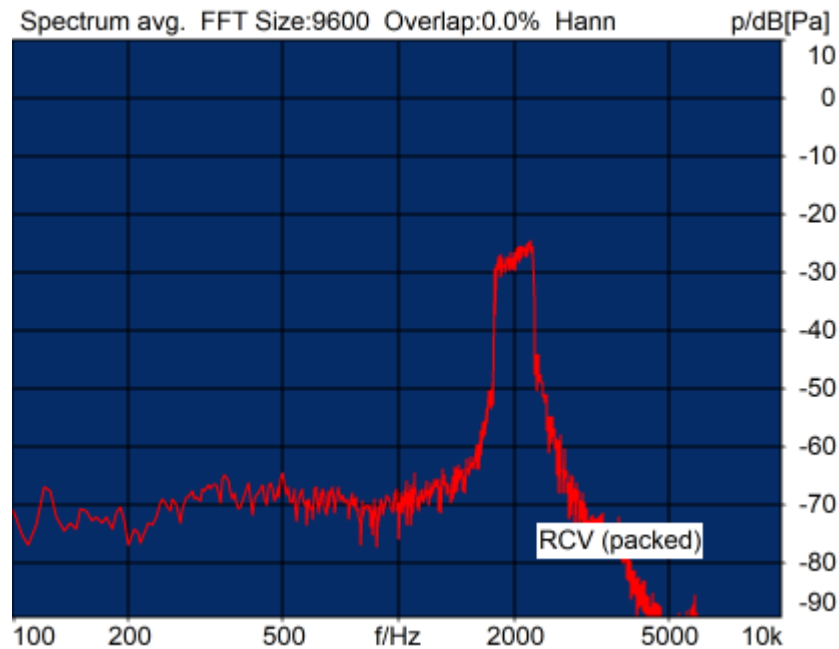
2026-09-04 03:17 ACQUA 6.2.210

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): 23.48 dB (6.70%) Ok

Ok

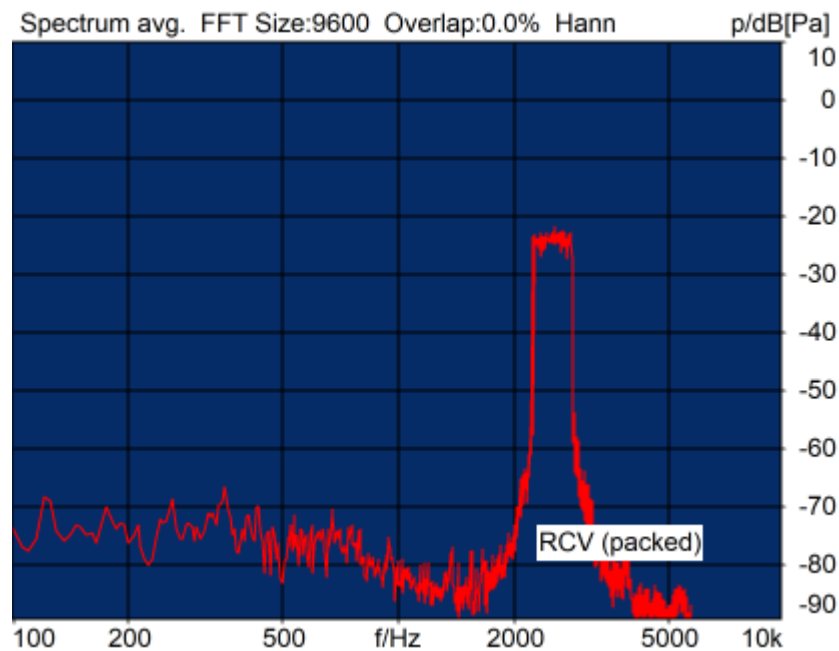
2026-09-04 03:17 ACQUA 6.2.210

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): 39.76 dB (1.03%) Ok

Ok

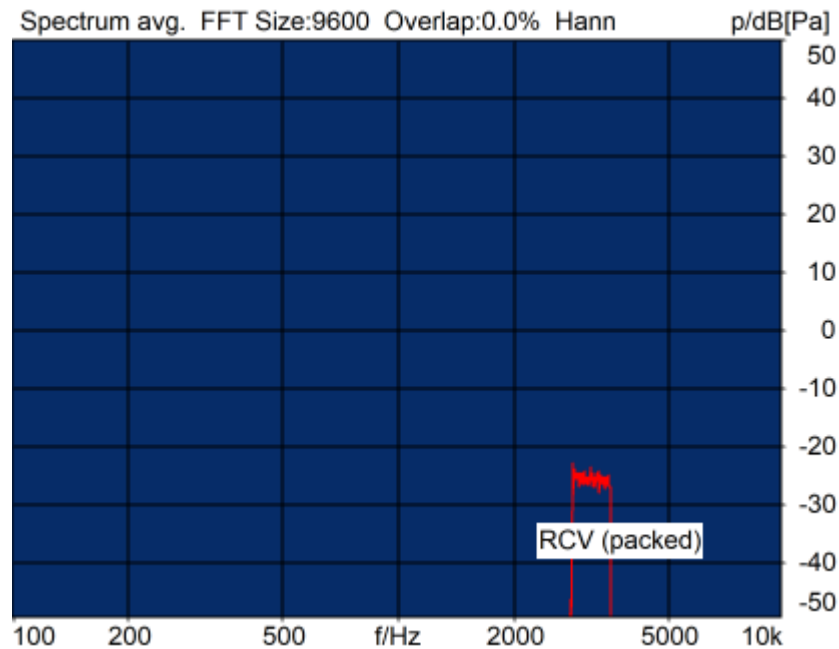
2026-09-04 03:18 ACQUA 6.2.210

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): 42.42 dB (0.76%) Ok

Ok

2026-09-04 03:18 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	33.34 dB
2	500Hz	31.20 dB
3	630Hz	28.12 dB
4	800Hz	33.56 dB
5	1000Hz	27.34 dB
6	1250Hz	28.56 dB
7	1600Hz	26.22 dB
8	2000Hz	23.48 dB
9	2500Hz	39.76 dB
10	3150Hz	42.42 dB

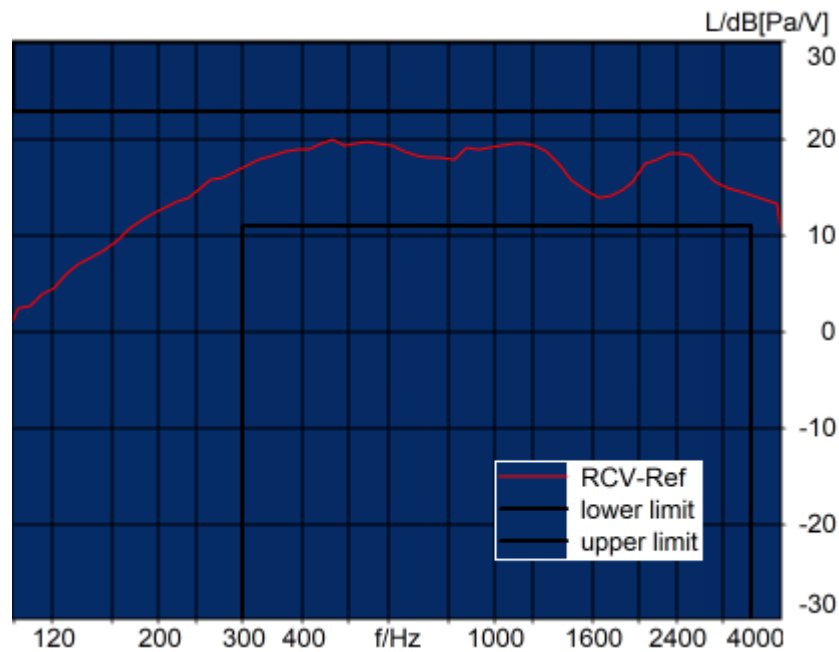
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.48dB at 2000Hz.

2026-09-04 03:18 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

3.05 dB at 462.0 Hz Ok

Ok

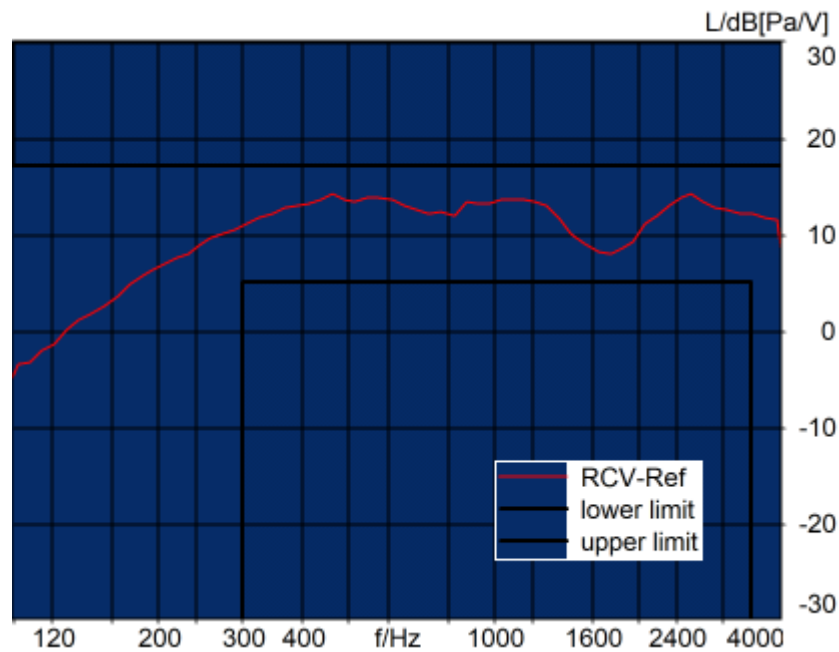
2026-09-04 03:12 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

2.85 dB at 2571.8 Hz Ok

Ok

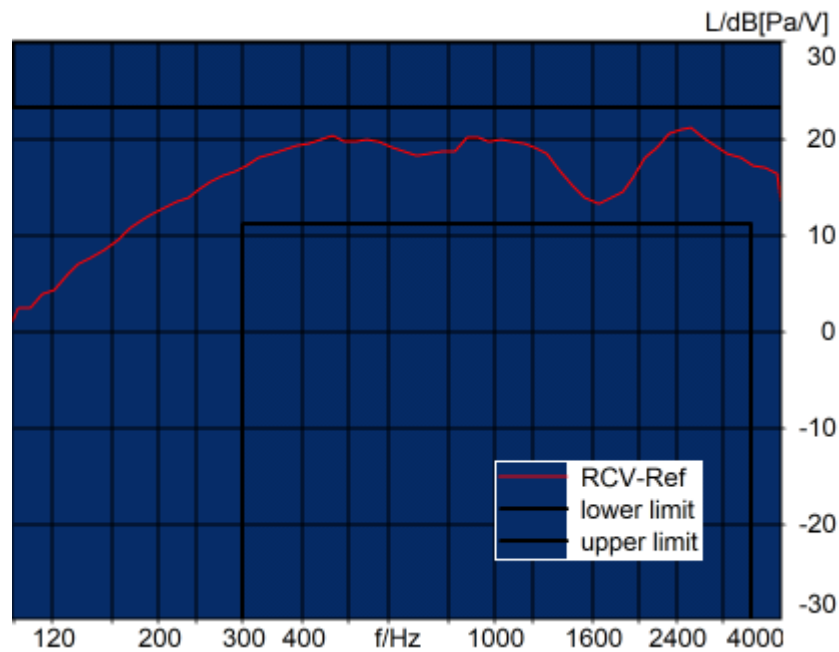
2026-09-04 03:19 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance

2.08 dB at 2571.8 Hz Ok

Ok

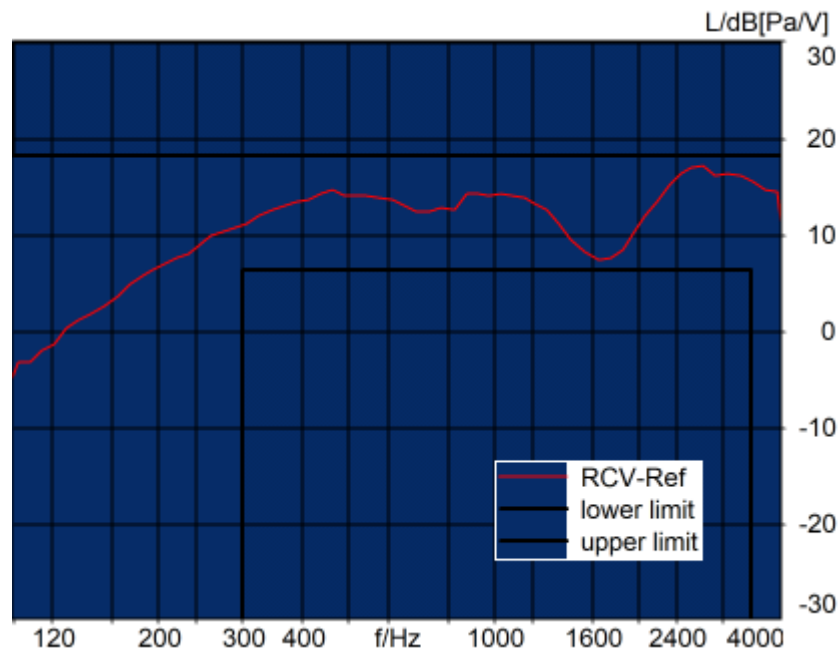
2026-09-04 03:12 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance

1.12 dB at 2721.8 Hz Ok

Ok

2026-09-04 03:19 ACQUA 6.2.210

Limits

lower
Fit into tolerance

Measurement Protocol

Measurement Object	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
--------------------	---------------------------------------

Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-12 ☐ ☐ 03:57
Responsible Person	ac01-hy

Status Overview

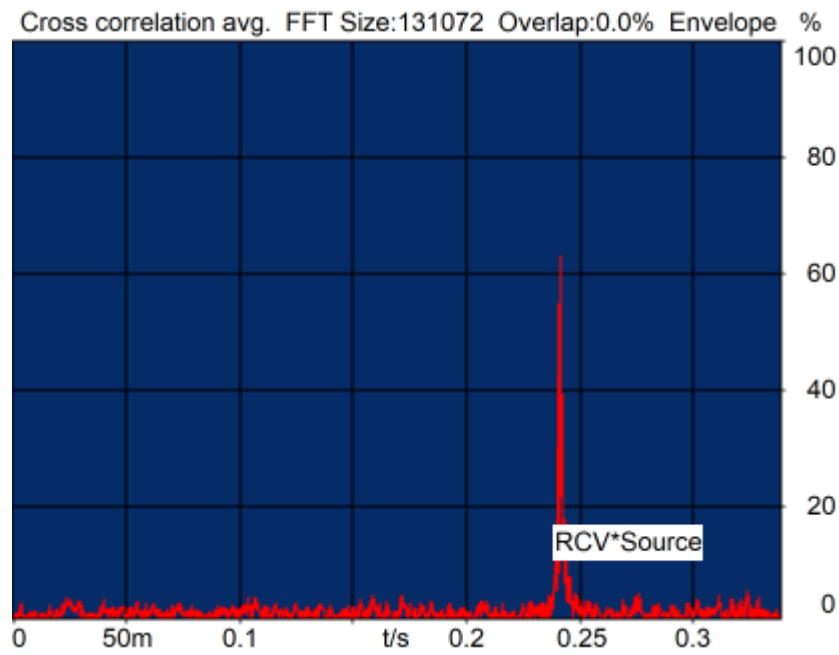
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	241.3	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	88.95	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.96	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.65	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.80	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.61	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.12	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.65	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.74	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.27	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.63	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.66	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.48	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	Ok	Minimum SDNR [dB], (occured at 1250Hz)	22.74	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 400 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.61	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.42	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 630 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.43	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 800 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.26	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.58	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.11	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.93	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.17	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.73	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps

5.2 RCV Distortion and Noise - 3150 Hz 2N NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.76	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	Ok	Minimum SDNR [dB], (occured at 1600Hz)	23.93	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 873.9 Hz	3.21	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	3.09	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	2.13	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2571.8 Hz	1.30	WIFI5G 802.11a 6M 157 EVS-NB 24.4kbps

Overall Receive Delay NB	6
5.1a Receive Volume Control Performance 8N NB	7
5.1b Receive Volume Control Performance 2N NB	8
5.2 RCV Distortion and Noise - 400 Hz 8N NB	9
5.2 RCV Distortion and Noise - 500 Hz 8N NB	10
5.2 RCV Distortion and Noise - 630 Hz 8N NB	11
5.2 RCV Distortion and Noise - 800 Hz 8N NB	12
5.2 RCV Distortion and Noise - 1000 Hz 8N NB	13
5.2 RCV Distortion and Noise - 1250 Hz 8N NB	14
5.2 RCV Distortion and Noise - 1600 Hz 8N NB	15
5.2 RCV Distortion and Noise - 2000 Hz 8N NB	16
5.2 RCV Distortion and Noise - 2500 Hz 8N NB	17
5.2 RCV Distortion and Noise - 3150 Hz 8N NB	18
Report - Receive Distortion and Noise (Conversational Gain) 8N NB	19
5.2 RCV Distortion and Noise - 400 Hz 2N NB	20
5.2 RCV Distortion and Noise - 500 Hz 2N NB	21
5.2 RCV Distortion and Noise - 630 Hz 2N NB	22
5.2 RCV Distortion and Noise - 800 Hz 2N NB	23
5.2 RCV Distortion and Noise - 1000 Hz 2N NB	24
5.2 RCV Distortion and Noise - 1250 Hz 2N NB	25
5.2 RCV Distortion and Noise - 1600 Hz 2N NB	26
5.2 RCV Distortion and Noise - 2000 Hz 2N NB	27
5.2 RCV Distortion and Noise - 2500 Hz 2N NB	28
5.2 RCV Distortion and Noise - 3150 Hz 2N NB	29
Report - Receive Distortion and Noise (Conversational Gain) 2N NB	30
5.3 Frequency Response 8N FF HANB	31
5.3 Frequency Response 2N FF HANB	32
5.3 Frequency Response 8N DF HANB	33
5.3 Frequency Response 2N DF HANB	34

Overall Receive Delay NB

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

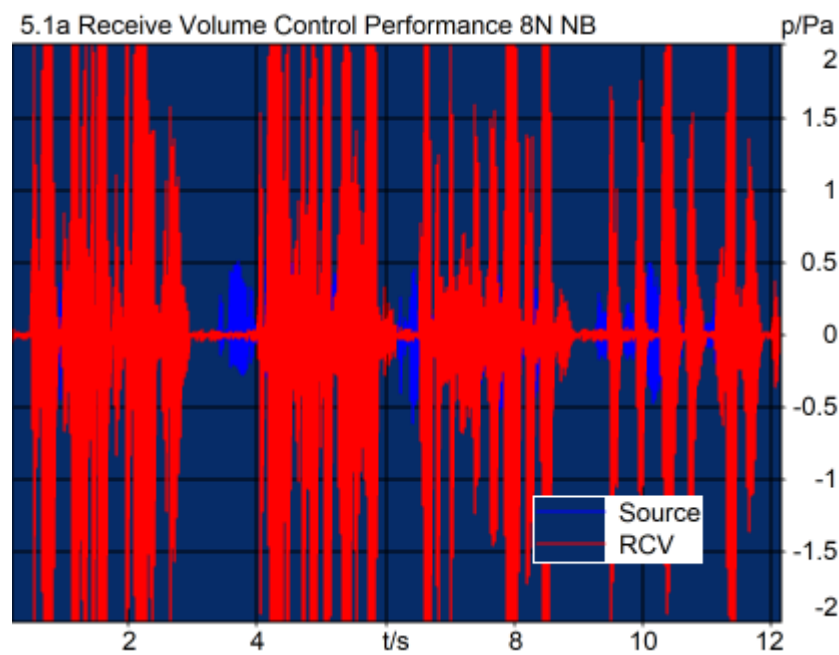


Channel	Delay	Correlation
RCV*Source	241.3 ms	63.21 %

2026-09-12 03:36 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	88.95 dB[SPL]	77.92%	Ok

Ok

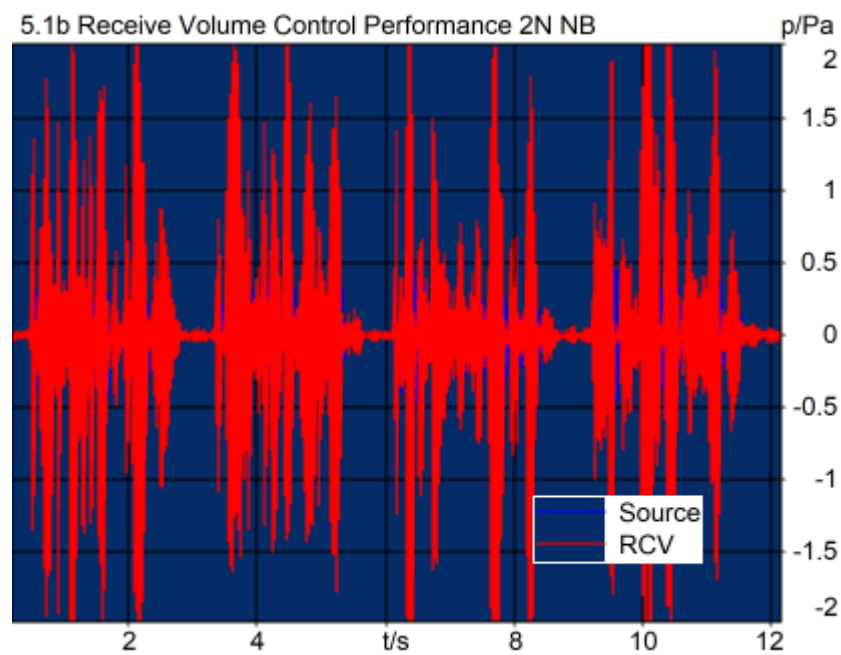
2026-09-12 03:44 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	83.96 dB[SPL]	80.46%	Ok

Ok

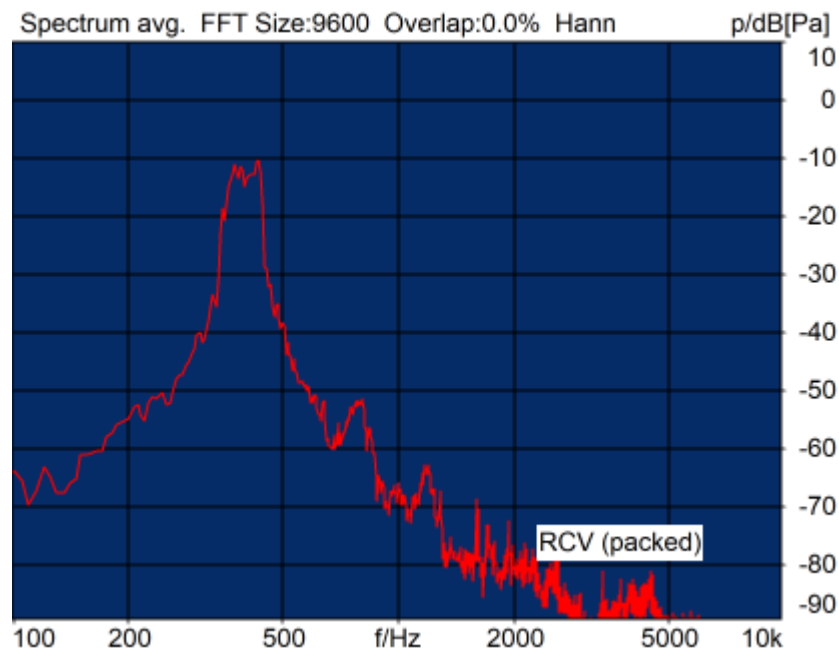
2026-09-12 03:48 ACQUA 6.2.210

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): 30.65 dB (2.93%) Ok

Ok

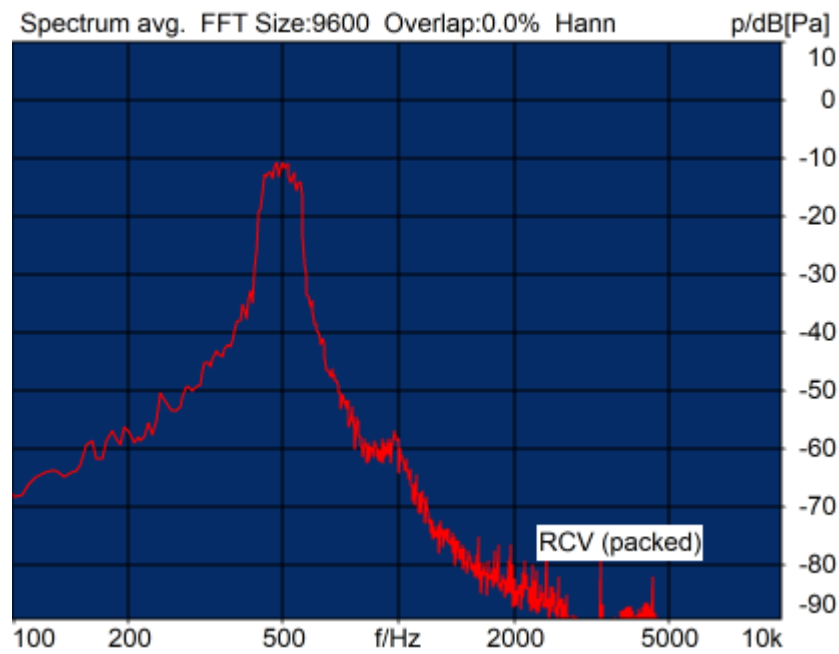
2026-09-12 03:45 ACQUA 6.2.210

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): 29.80 dB (3.24%) Ok

Ok

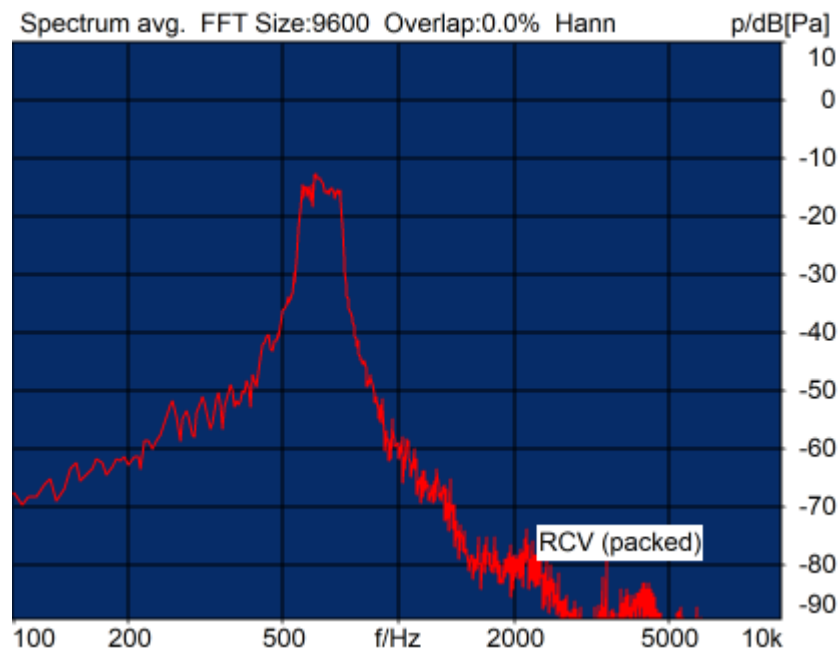
2026-09-12 03:37 ACQUA 6.2.210

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): 26.61 dB (4.67%) Ok

Ok

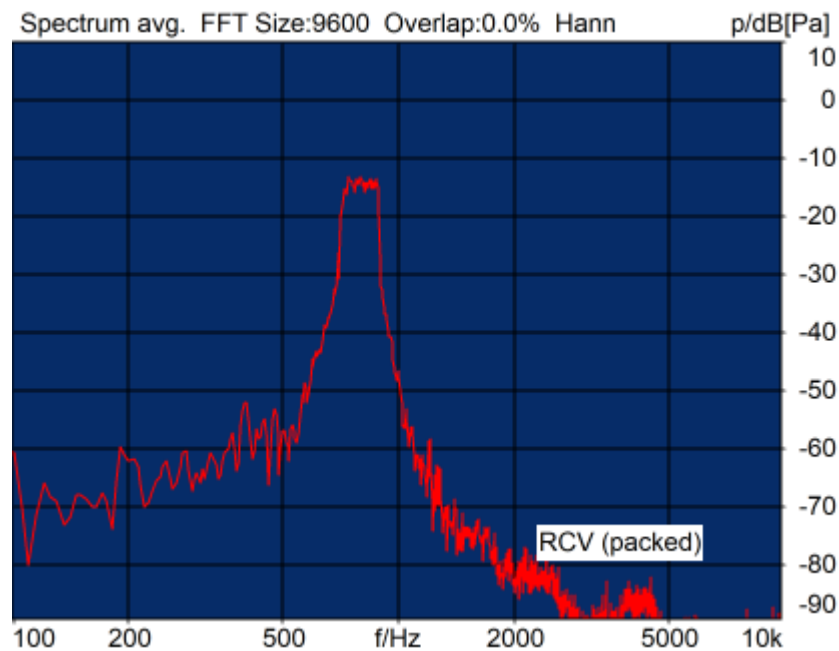
2026-09-12 03:38 ACQUA 6.2.210

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): 28.12 dB (3.92%) Ok

Ok

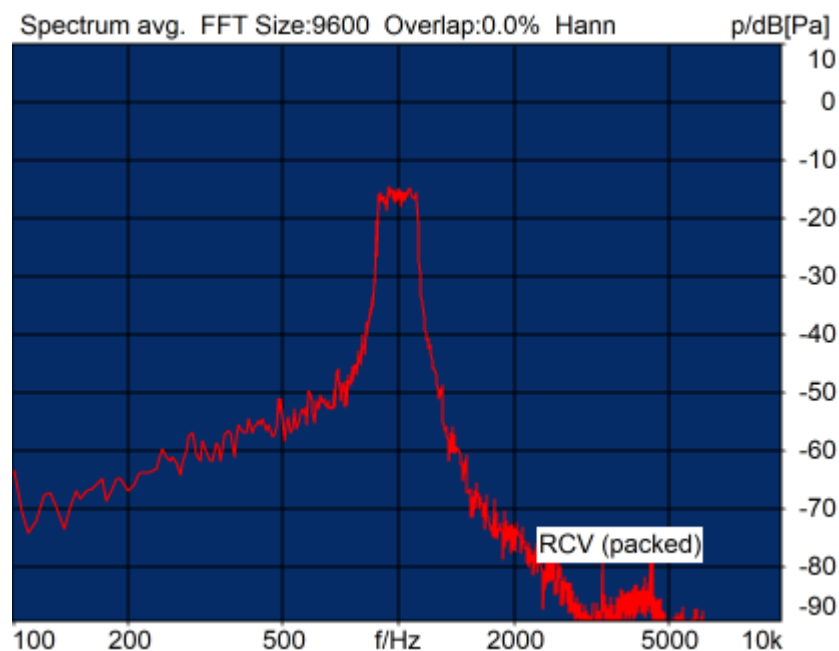
2026-09-12 03:38 ACQUA 6.2.210

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): 25.65 dB (5.22%) Ok

Ok

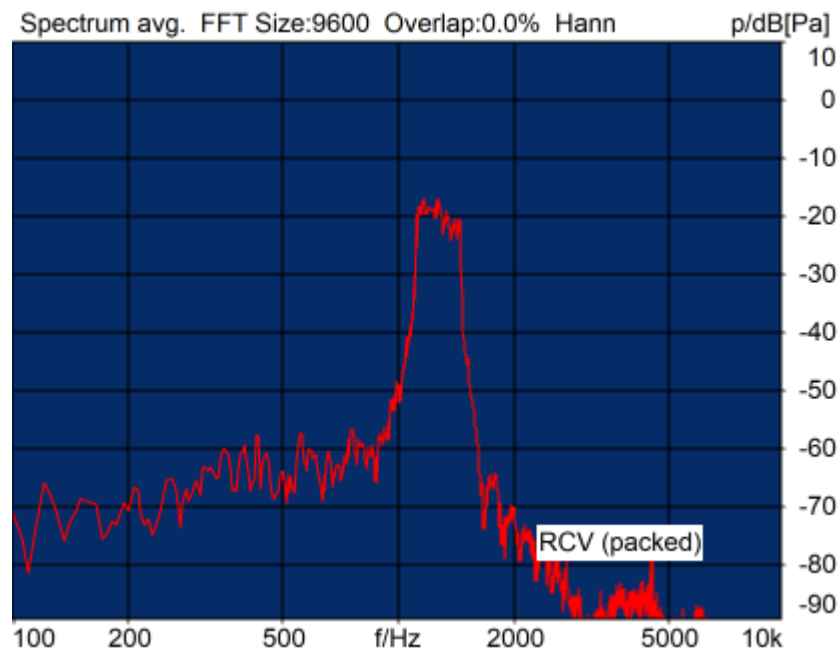
2026-09-12 03:39 ACQUA 6.2.210

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): 22.74 dB (7.29%) Ok

Ok

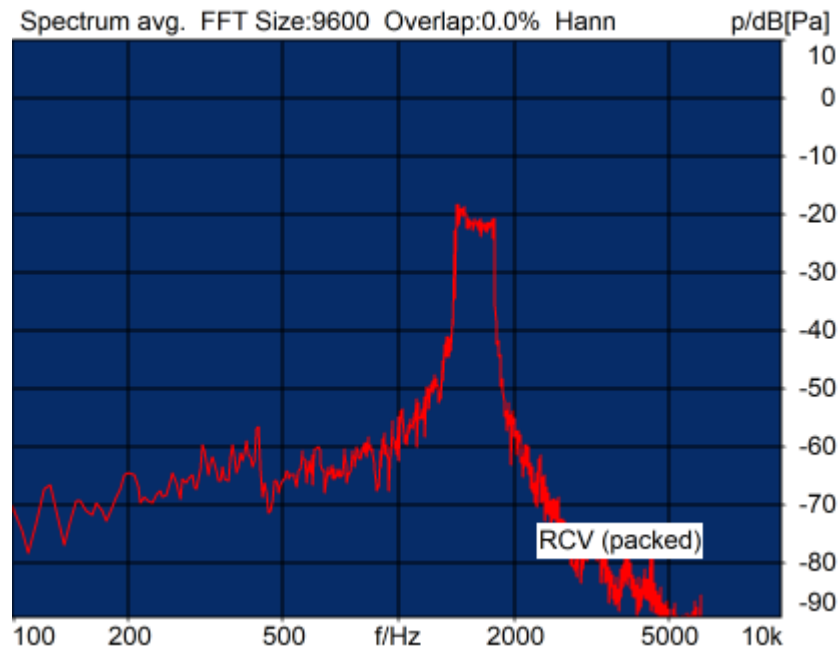
2026-09-12 03:45 ACQUA 6.2.210

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): 25.27 dB (5.45%) Ok

Ok

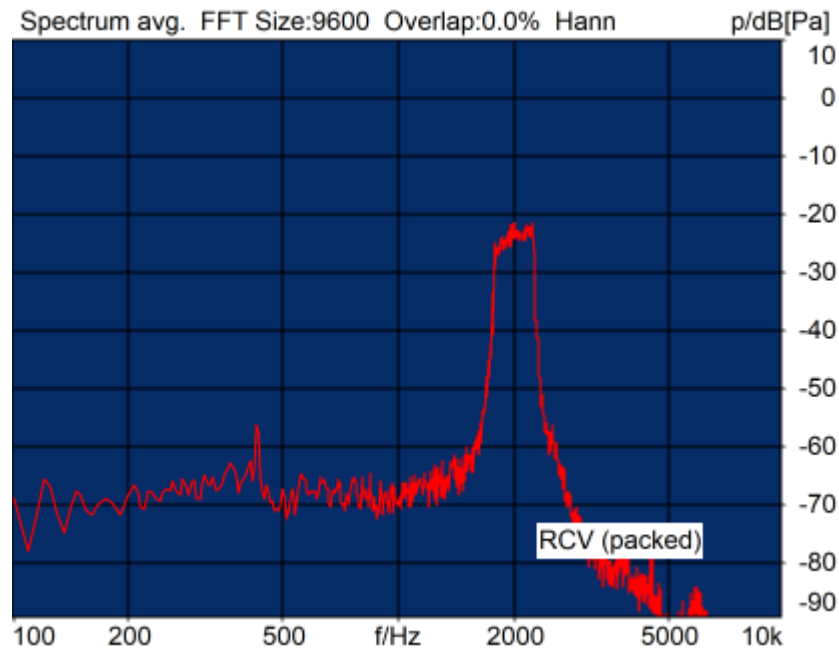
2026-09-12 03:40 ACQUA 6.2.210

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): 24.63 dB (5.87%) Ok

Ok

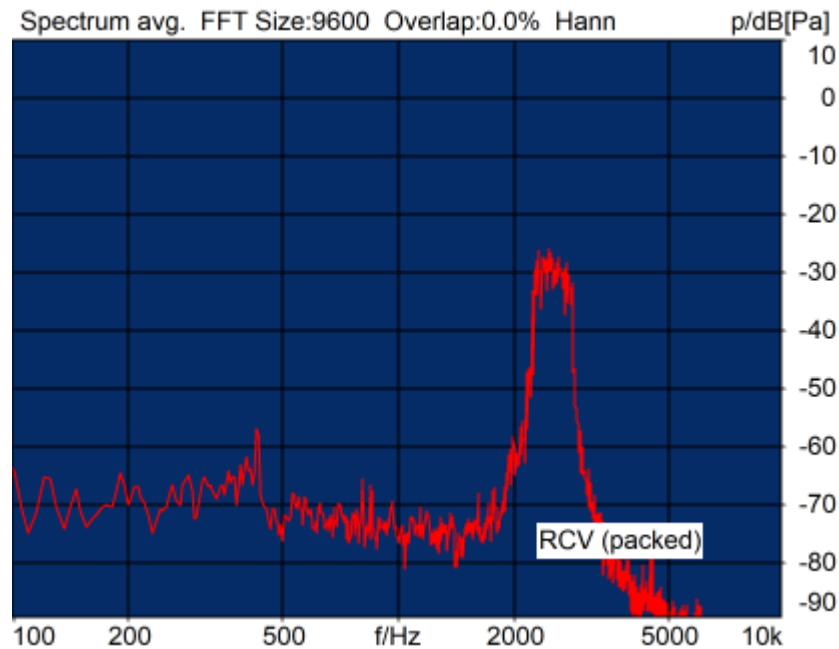
2026-09-12 03:40 ACQUA 6.2.210

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): 24.66 dB (5.85%) Ok

Ok

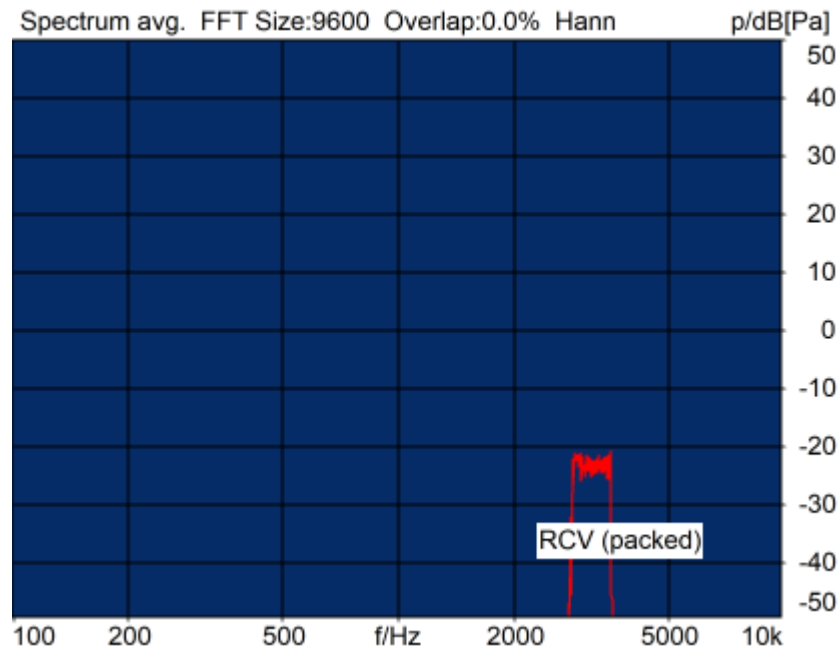
2026-09-12 03:41 ACQUA 6.2.210

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): 35.48 dB (1.68%) Ok

Ok

2026-09-12 03:41 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	500Hz	29.80 dB
2	630Hz	26.61 dB
3	800Hz	28.12 dB
4	1000Hz	25.65 dB
5	1600Hz	25.27 dB
6	2000Hz	24.63 dB
7	2500Hz	24.66 dB
8	3150Hz	35.48 dB
9	400Hz	30.65 dB
10	1250Hz	22.74 dB

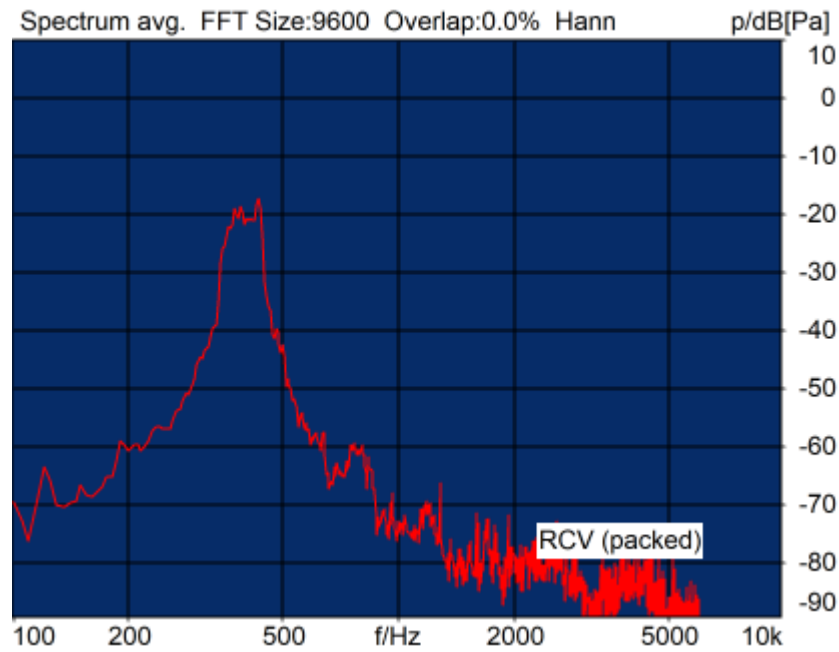
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.74dB at 1250Hz.

2026-09-12 03:46 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): 28.61 dB (3.71%) Ok

Ok

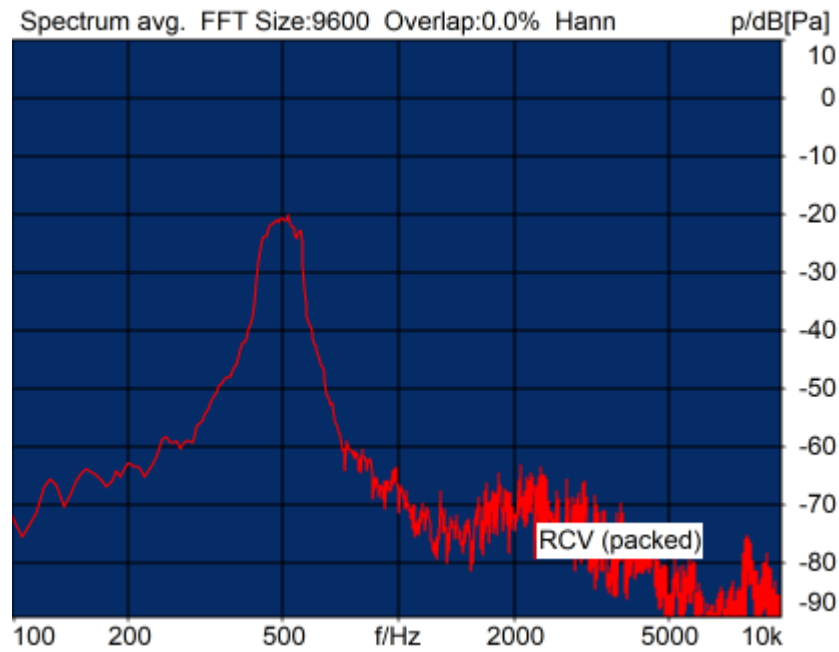
2026-09-12 03:48 ACQUA 6.2.210

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): 25.42 dB (5.36%) Ok

Ok

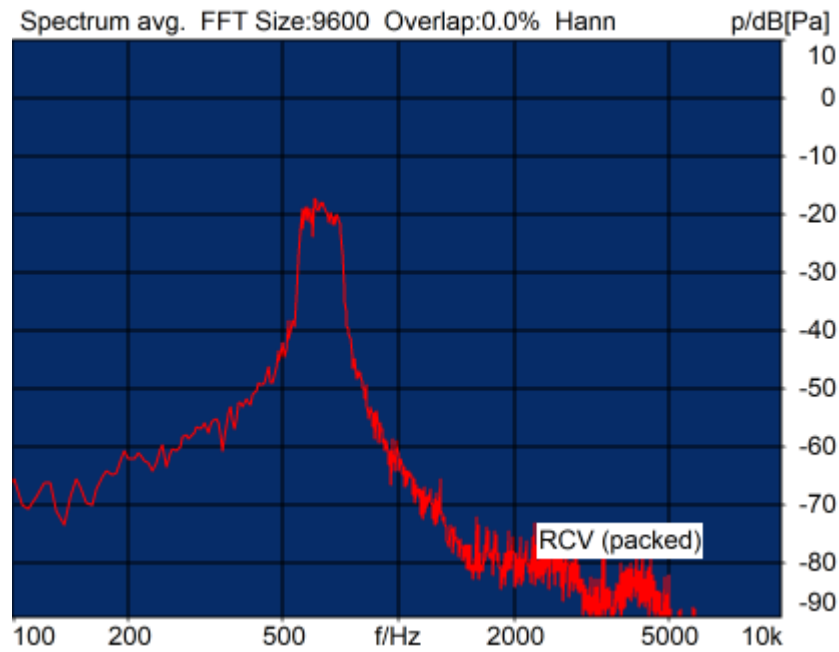
2026-09-12 03:55 ACQUA 6.2.210

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): 27.43 dB (4.25%) Ok

Ok

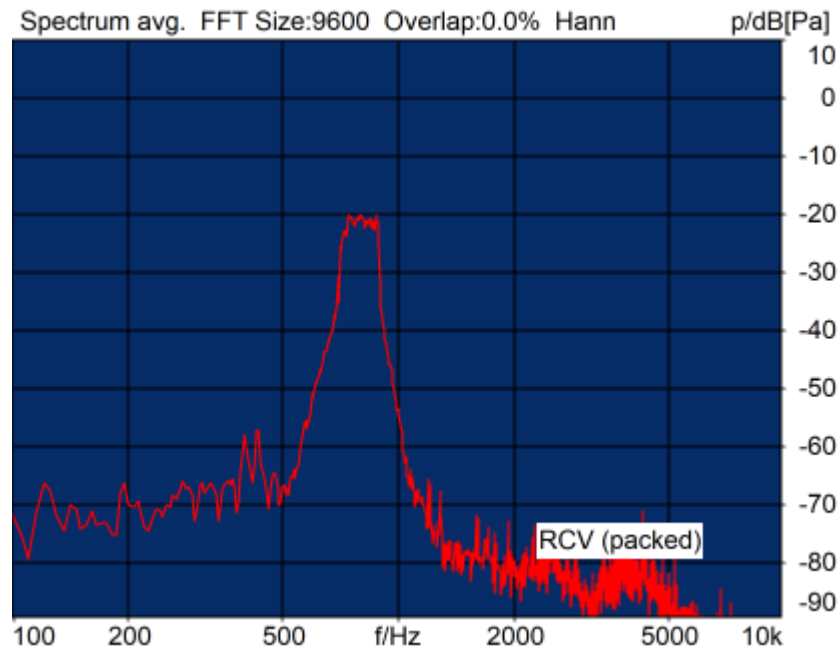
2026-09-12 03:49 ACQUA 6.2.210

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): 26.26 dB (4.86%) Ok

Ok

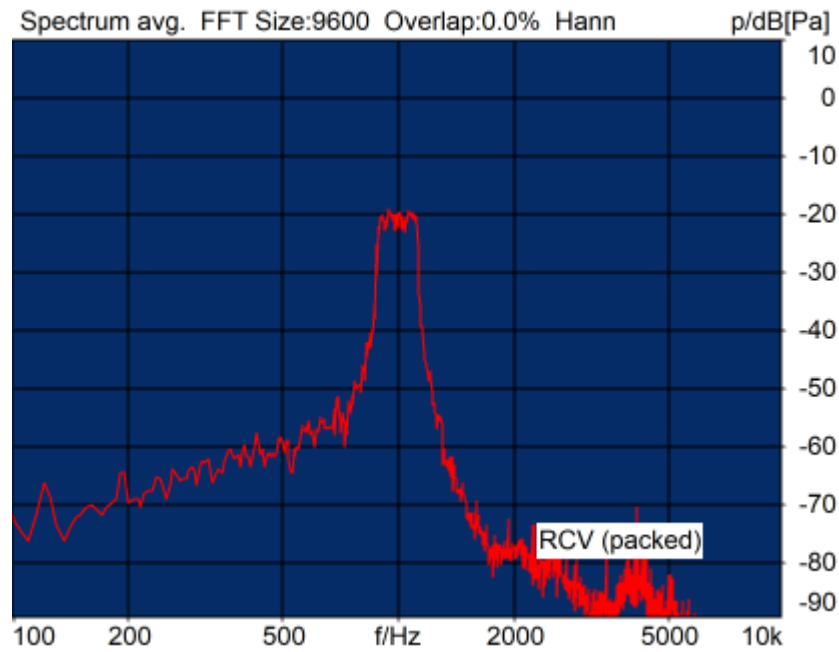
2026-09-12 03:50 ACQUA 6.2.210

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): 26.58 dB (4.69%) Ok

Ok

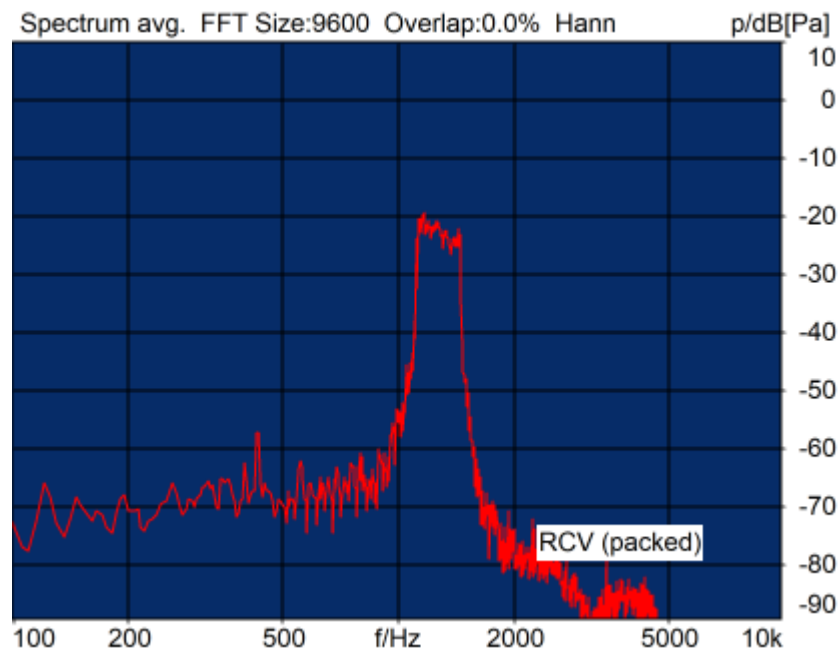
2026-09-12 03:50 ACQUA 6.2.210

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): 26.11 dB (4.95%) Ok

Ok

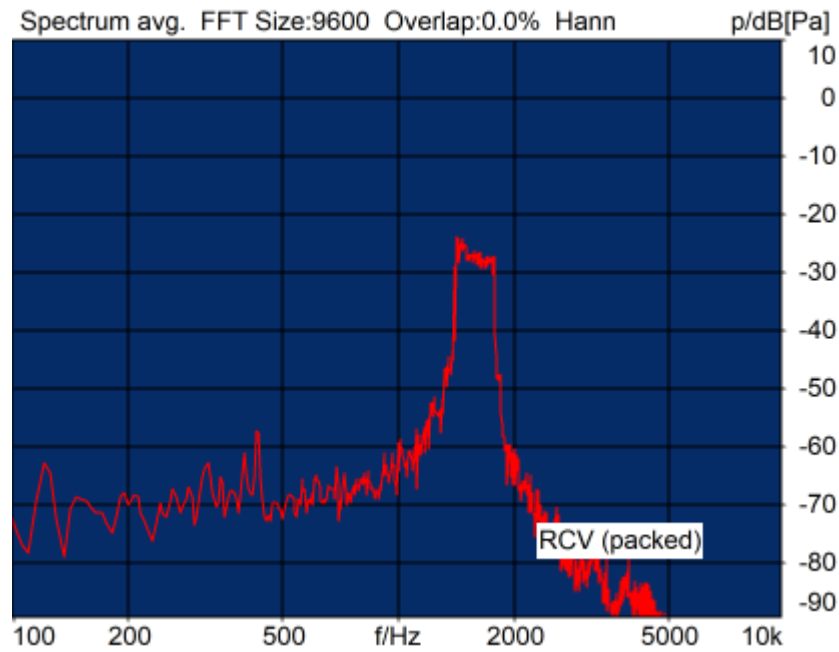
2026-09-12 03:51 ACQUA 6.2.210

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): 23.93 dB (6.36%) Ok

Ok

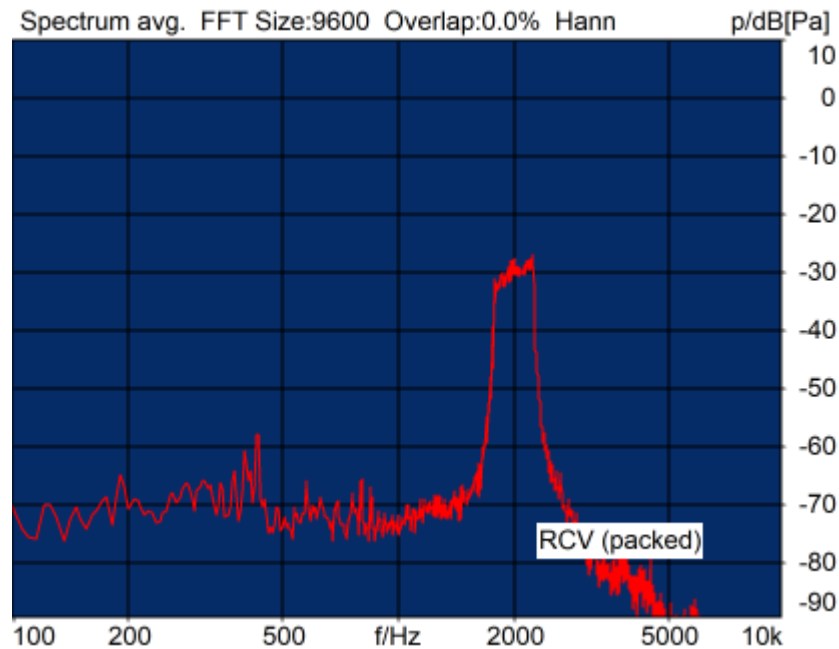
2026-09-12 03:51 ACQUA 6.2.210

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): 24.17 dB (6.19%) Ok

Ok

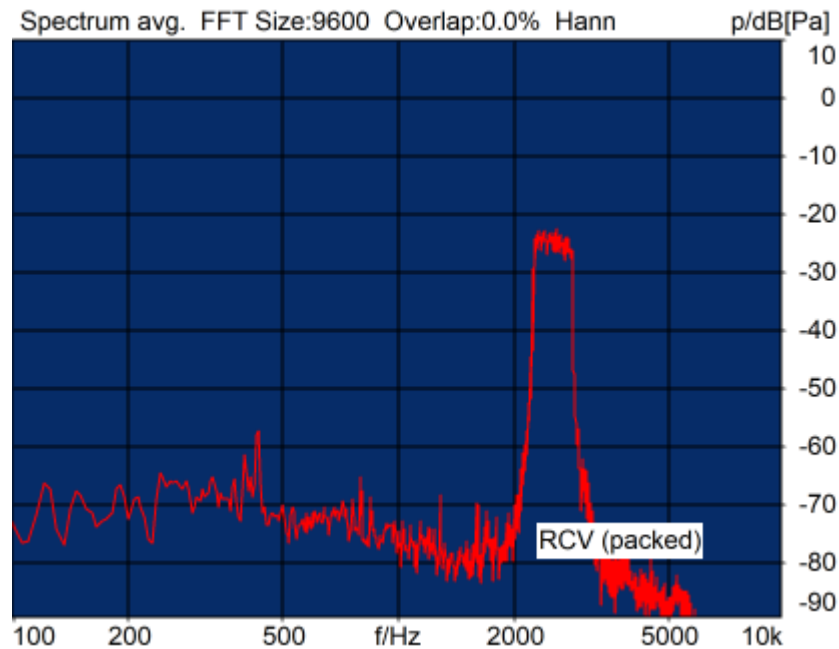
2026-09-12 03:55 ACQUA 6.2.210

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): 33.73 dB (2.06%) Ok

Ok

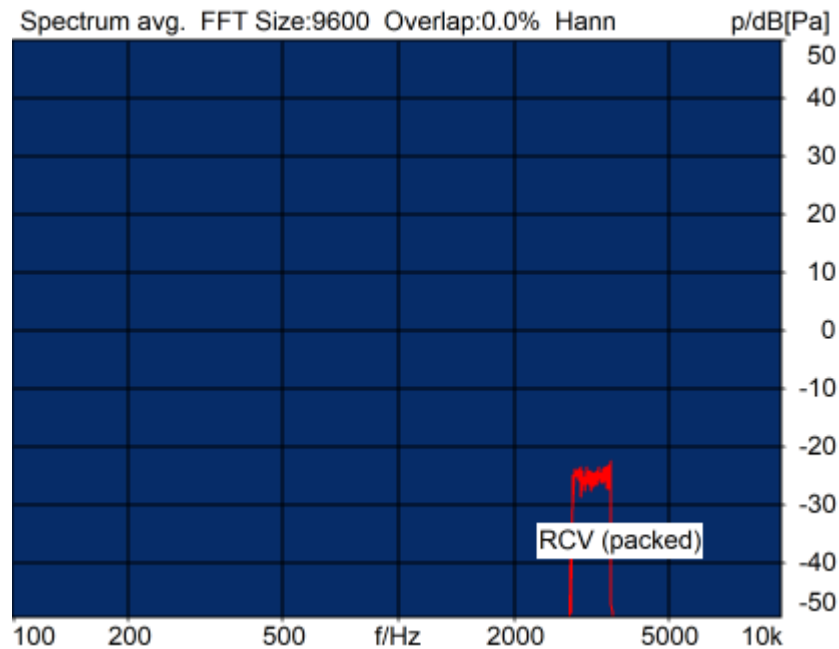
2026-09-12 03:52 ACQUA 6.2.210

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): 35.76 dB (1.63%) Ok

Ok

2026-09-12 03:53 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	28.61 dB
2	630Hz	27.43 dB
3	800Hz	26.26 dB
4	1000Hz	26.58 dB
5	1250Hz	26.11 dB
6	1600Hz	23.93 dB
7	2500Hz	33.73 dB
8	3150Hz	35.76 dB
9	500Hz	25.42 dB
10	2000Hz	24.17 dB

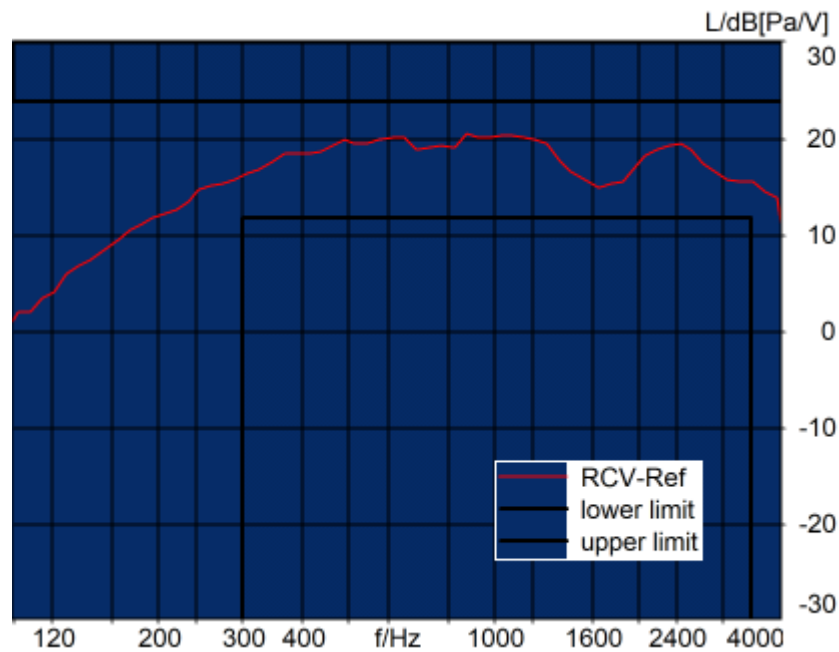
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.93dB at 1600Hz.

2026-09-12 03:57 ACQUA

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

3.21 dB at 873.9 Hz Ok

Ok

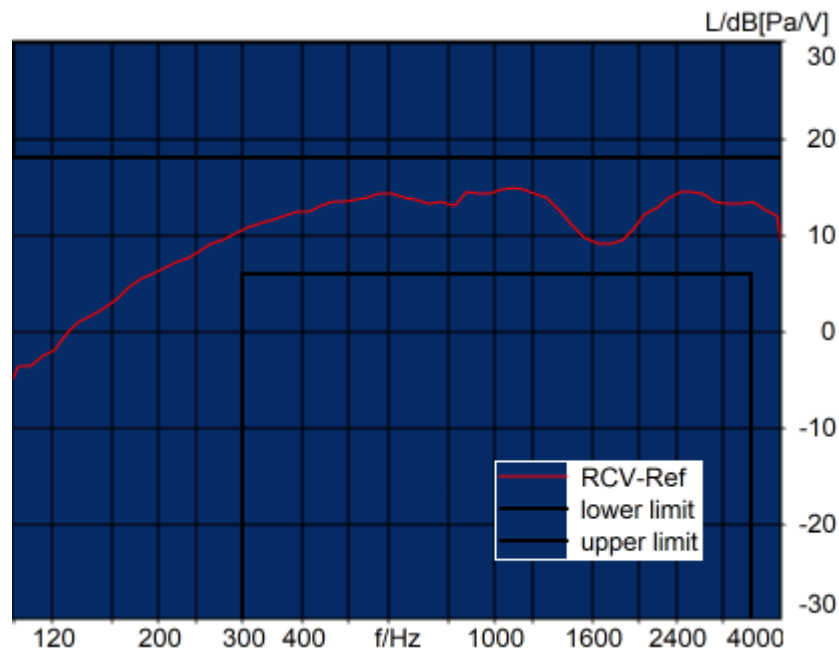
2026-09-12 03:46 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

3.09 dB at 1747.8 Hz Ok

Ok

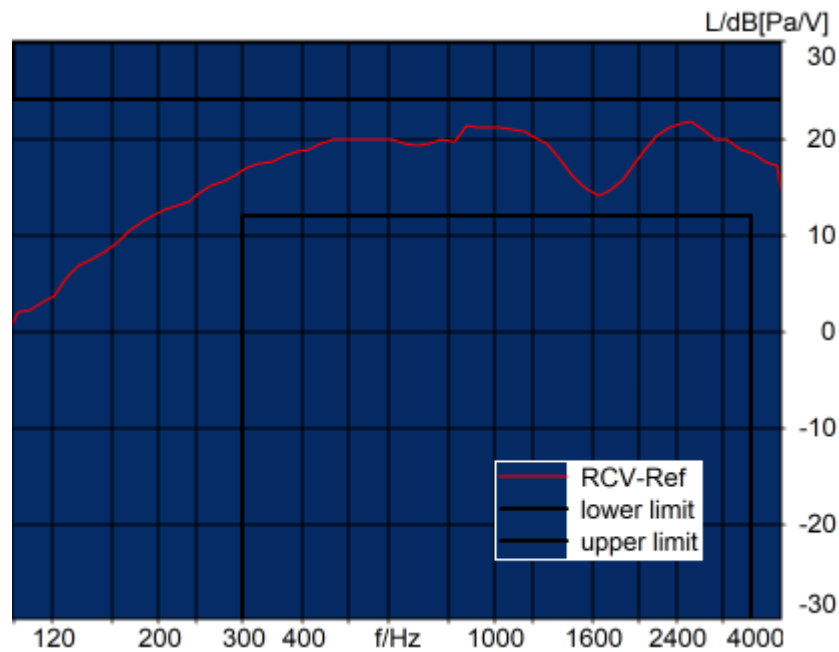
2026-09-12 03:53 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance

2.13 dB at 2571.8 Hz Ok

Ok

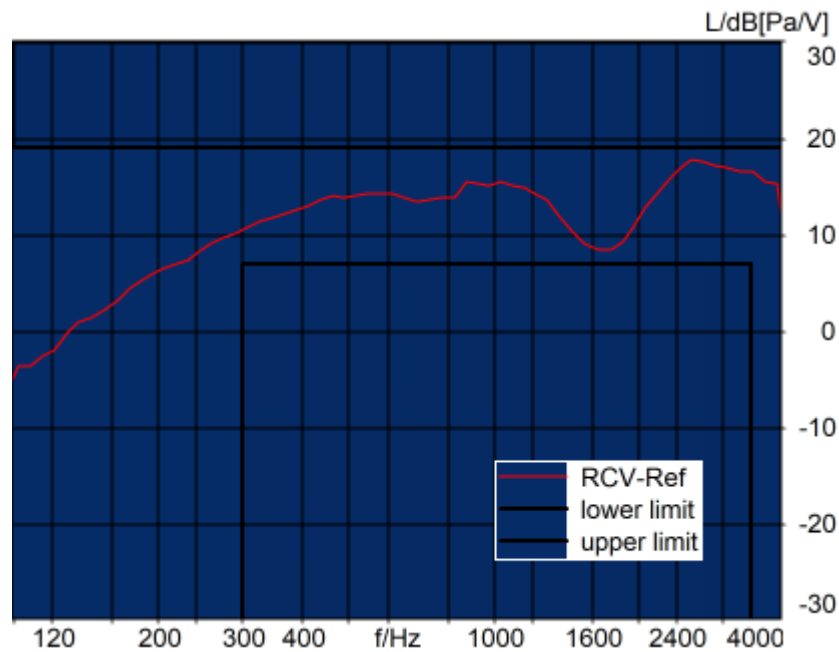
2026-09-12 03:47 ACQUA 6.2.210

Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance

1.30 dB at 2571.8 Hz Ok

Ok

2026-09-12 03:54 ACQUA 6.2.210

Limits

lower
Fit into tolerance

Measurement Protocol

Measurement Object	GSM850 AMR-WB 12.65kbps
--------------------	-------------------------

Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-03 ☐ ☐ 06:23
Responsible Person	ac01-hy

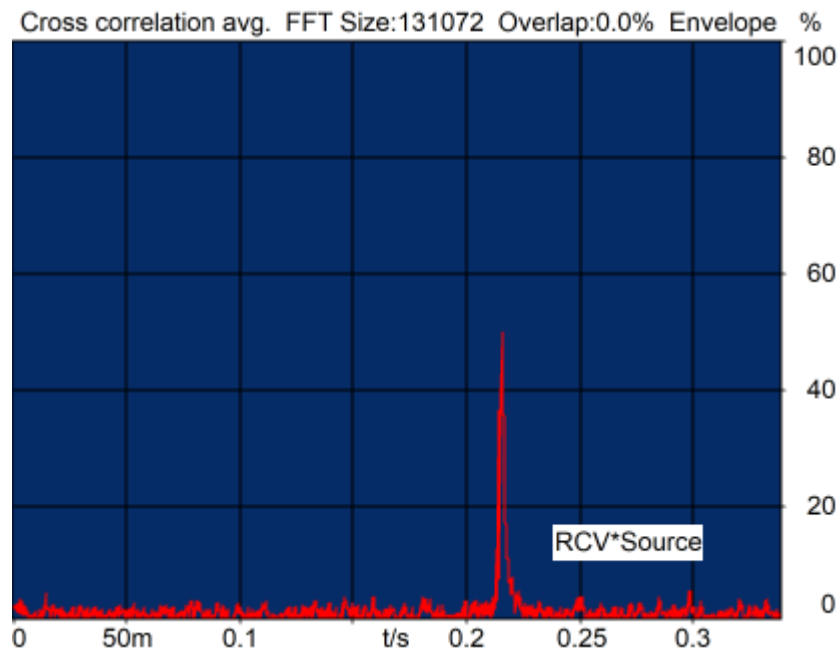
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	215.6	GSM850 AMR-WB 12.65kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.78	GSM850 AMR-WB 12.65kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	81.95	GSM850 AMR-WB 12.65kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

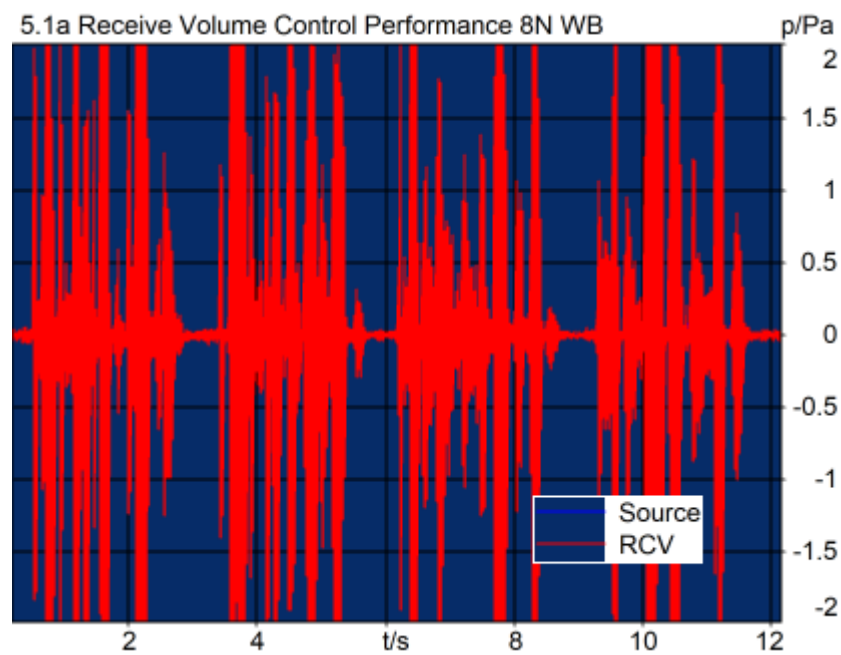


Channel	Delay	Correlation
RCV*Source	215.6 ms	49.94 %

2026-09-03 06:22 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.78 dB[SPL]	79.89%	Ok

Ok

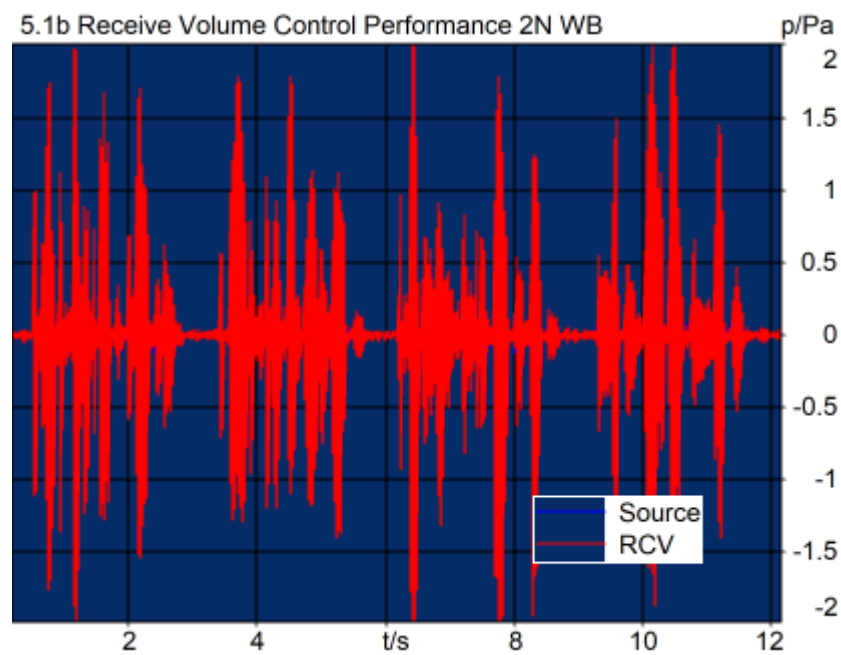
2026-09-03 06:23 ACQUA 6.2.210

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	81.95 dB[SPL]	79.87%	Ok

Ok

2026-09-03 06:22 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	WCDMA 2 AMR-WB 6.6kbps
--------------------	------------------------

Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-03 ☐ ☐ 05:58
Responsible Person	ac01-hy

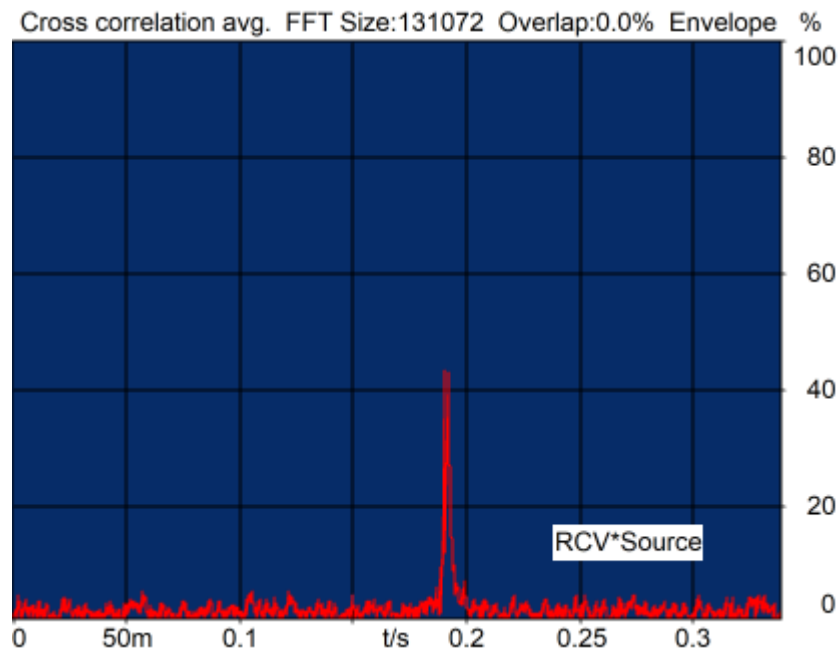
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	191.3	WCDMA 2 AMR-WB 6.6kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.34	WCDMA 2 AMR-WB 6.6kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	81.26	WCDMA 2 AMR-WB 6.6kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

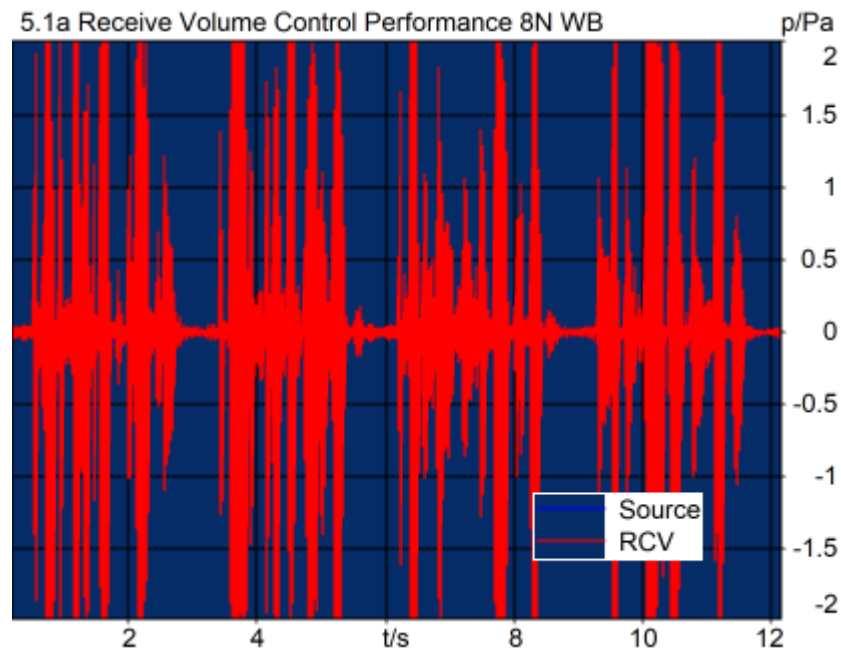


Channel	Delay	Correlation
RCV*Source	191.3 ms	43.34 %

2026-09-03 05:55 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.34 dB[SPL]	79.85%	Ok

Ok

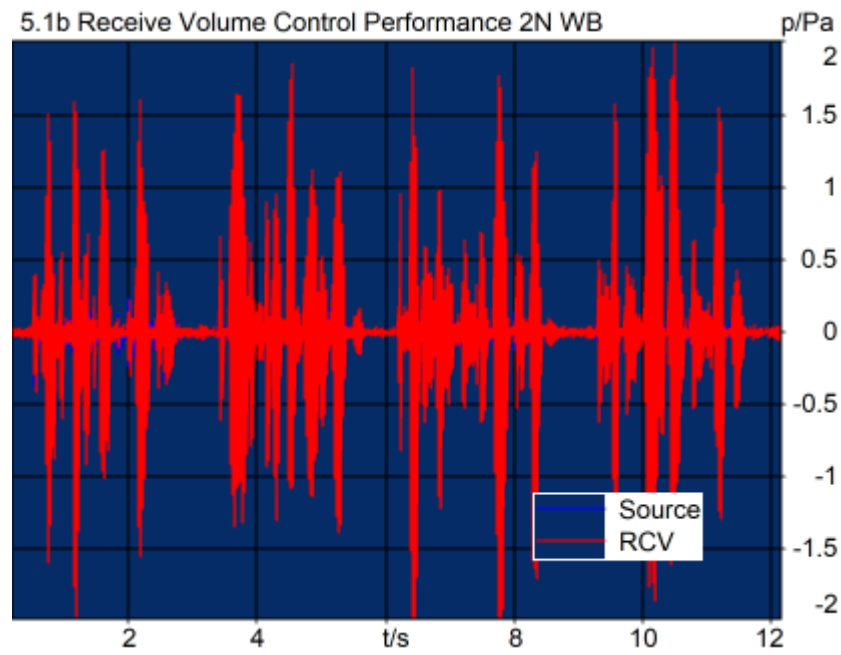
2026-09-03 05:55 ACQUA 6.2.210

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	81.26 dB[SPL]	78.18%	Ok

Ok

2026-09-03 05:56 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	LTE 7 20M QPSK EVS-WB 5.9kbps
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Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-03 ☐ ☐ 05:12
Responsible Person	ac01-hy

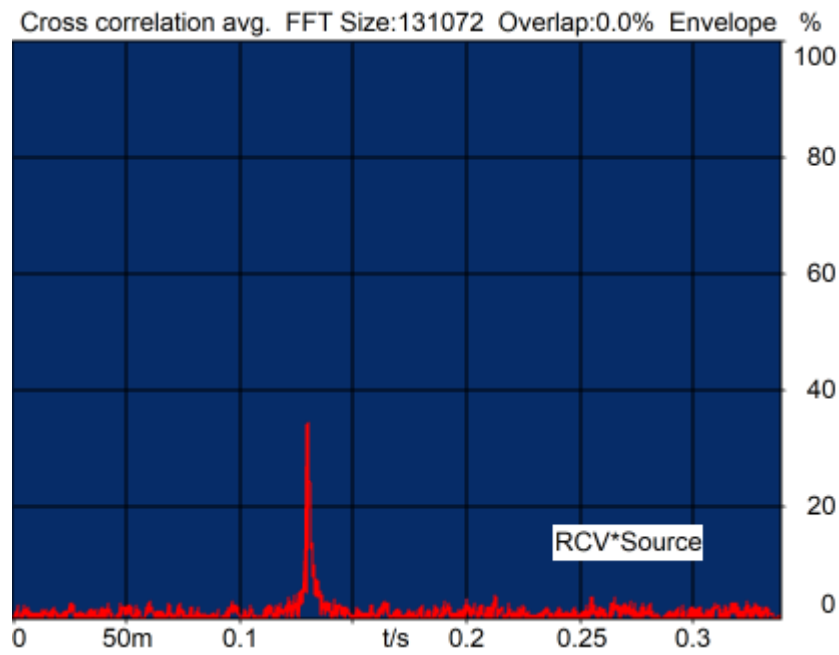
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	130.2	LTE 7 20M QPSK EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.42	LTE 7 20M QPSK EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	81.38	LTE 7 20M QPSK EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

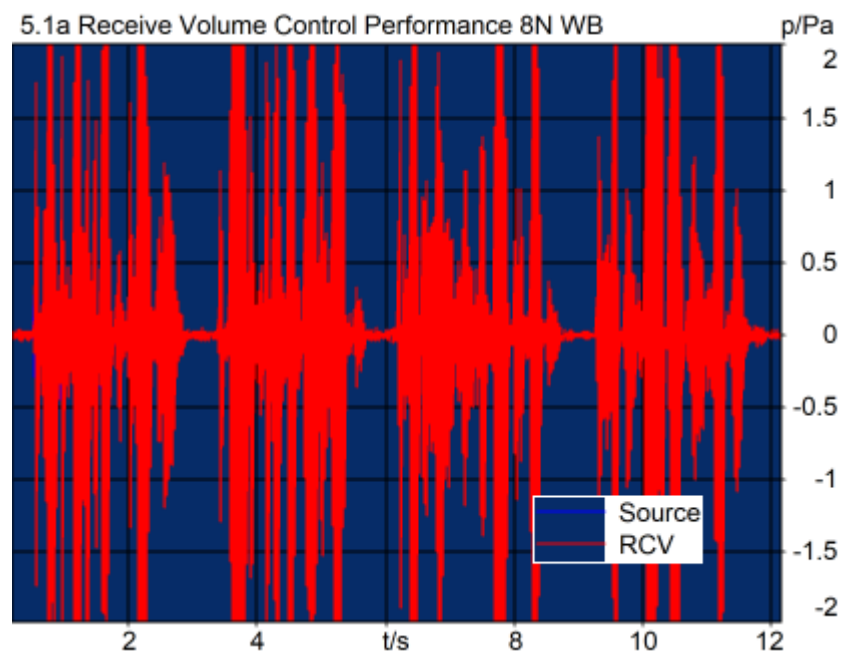


Channel	Delay	Correlation
RCV*Source	130.2 ms	34.32 %

2026-09-03 05:11 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.42 dB[SPL]	80.43%	Ok

Ok

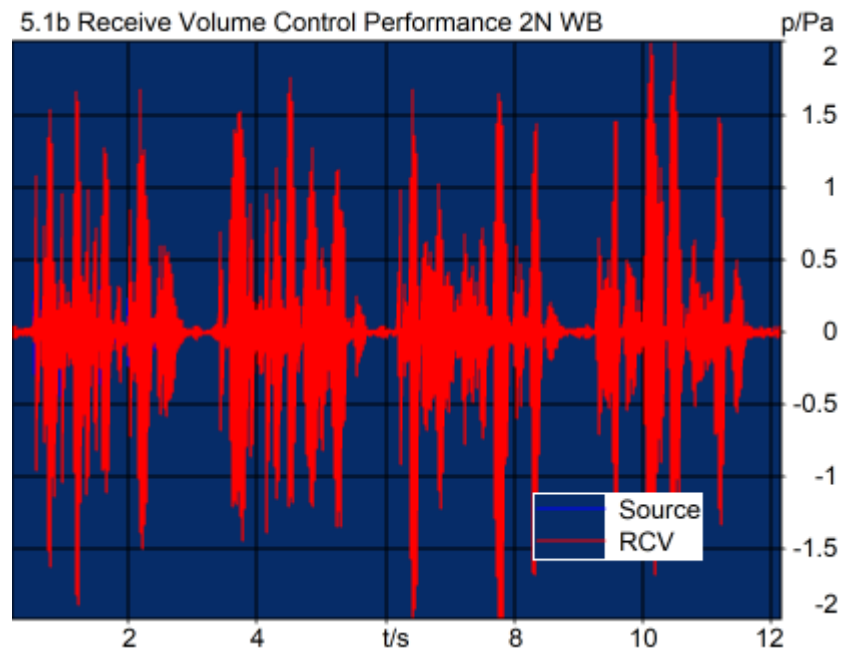
2026-09-03 05:12 ACQUA 6.2.210

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	81.38 dB[SPL]	82.31%	Ok

Ok

2026-09-03 05:11 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	N26 20M BPSK EVS-WB 5.9kbps
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Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-04 ☐ ☐ 02:52
Responsible Person	ac01-hy

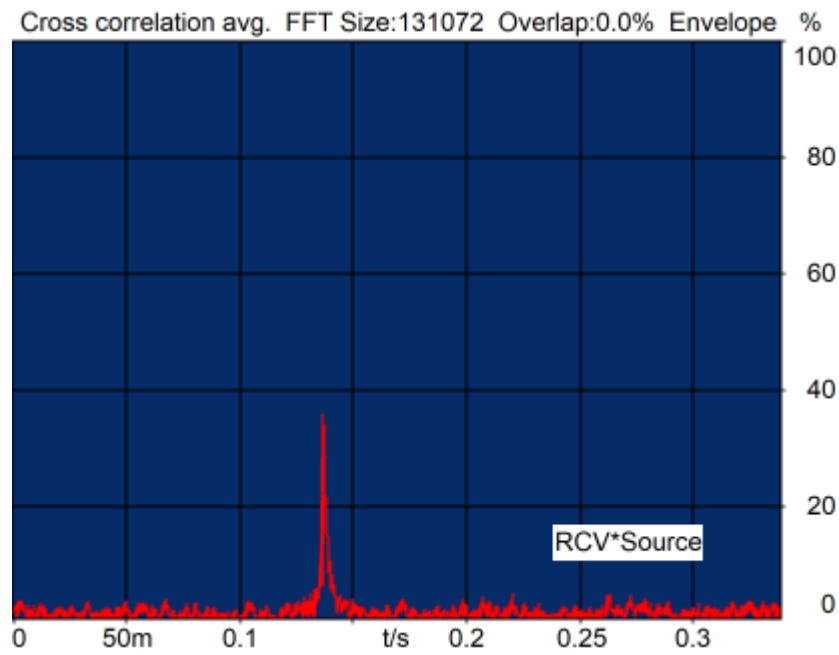
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	137.3	N26 20M BPSK EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.16	N26 20M BPSK EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	81.10	N26 20M BPSK EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

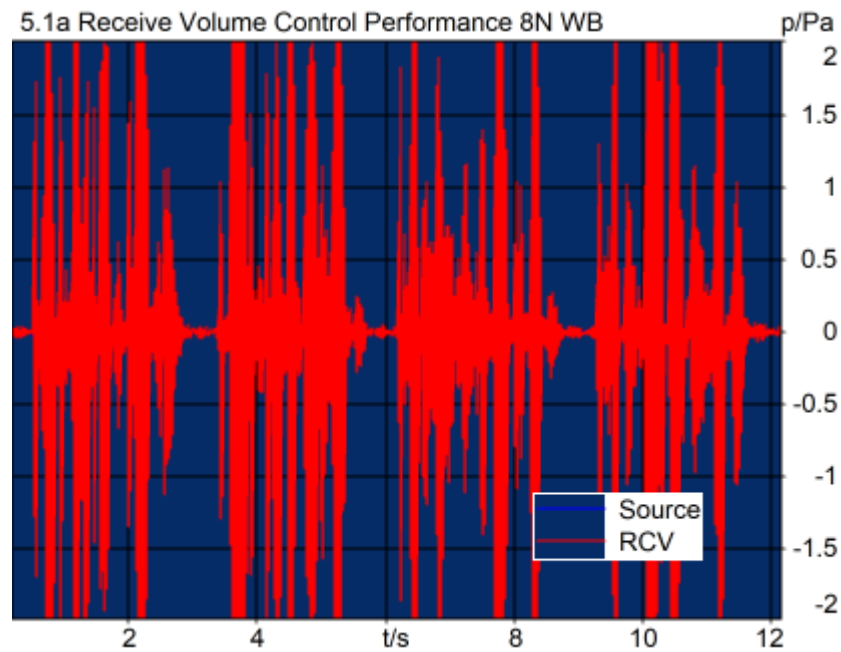


Channel	Delay	Correlation
RCV*Source	137.3 ms	35.73 %

2026-09-04 02:50 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.16 dB[SPL]	80.58%	Ok

Ok

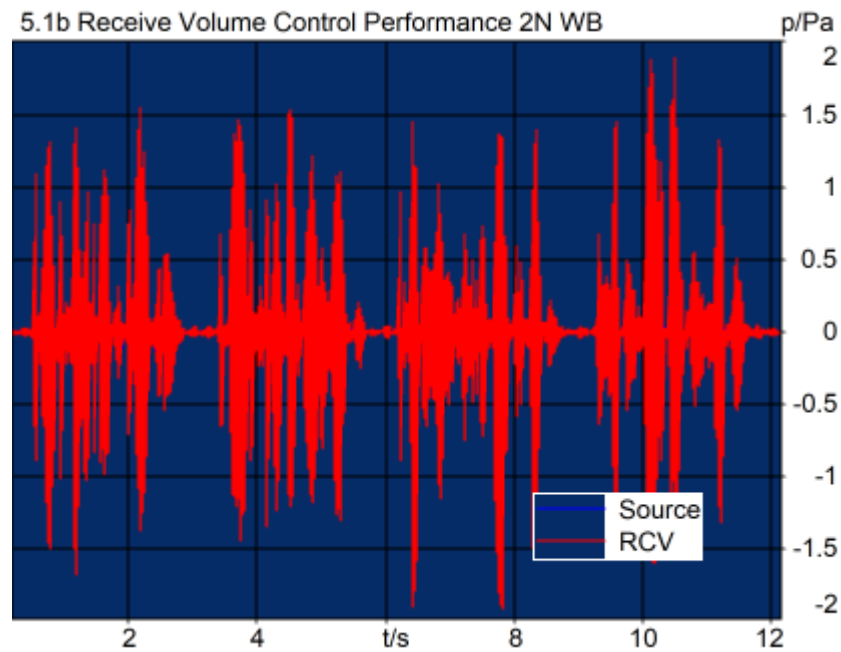
2026-09-04 02:52 ACQUA 6.2.210

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	81.10 dB[SPL]	80.41%	Ok

Ok

2026-09-04 02:51 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	N71 20M BPSK EVS-WB 5.9kbps
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Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-04 ☐ ☐ 06:24
Responsible Person	ac01-hy

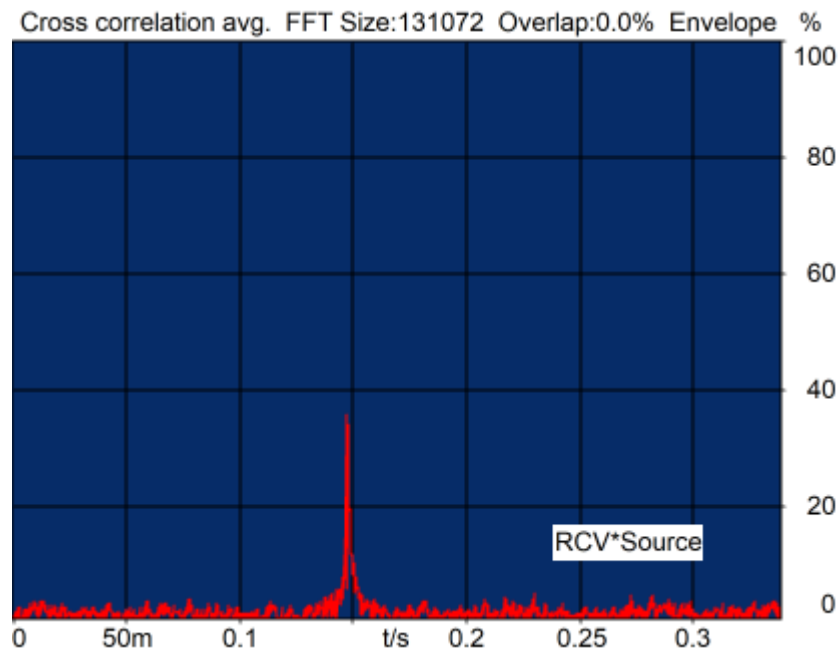
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	147.3	N71 20M BPSK EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.05	N71 20M BPSK EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	81.78	N71 20M BPSK EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

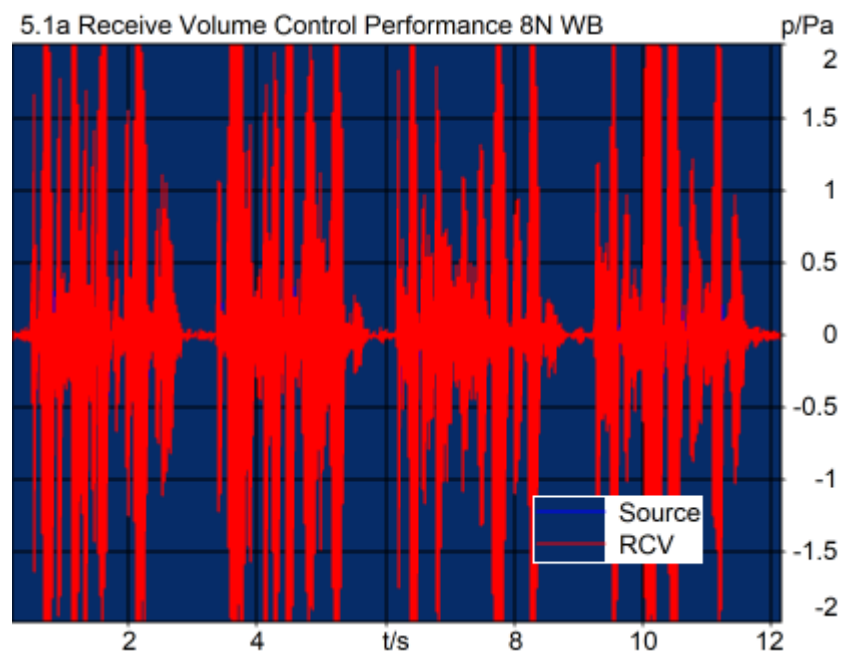


Channel	Delay	Correlation
RCV*Source	147.3 ms	35.94 %

2026-09-04 06:22 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.05 dB[SPL]	80.49%	Ok

Ok

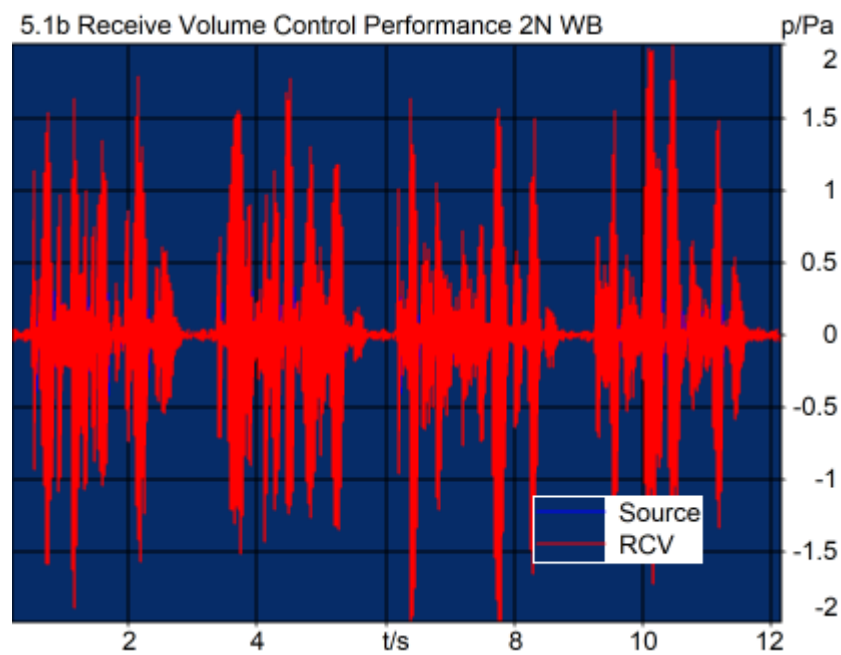
2026-09-04 06:23 ACQUA 6.2.210

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	81.78 dB[SPL]	80.23%	Ok

Ok

2026-09-04 06:23 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]

Measurement Protocol

Measurement Object	WIFI5G 802.11a 6M 60 EVS-WB 5.9kbps
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Project	672115_M008_Oakland - Regulatory_NA SKU
Report Generation Date	2026-09-12 ☐ ☐ 05:07
Responsible Person	ac01-hy

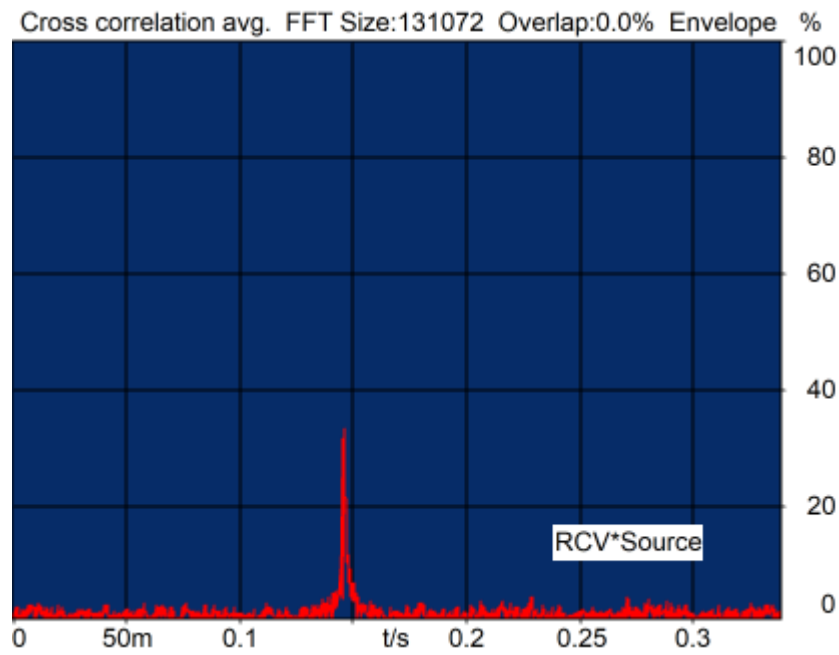
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	145.8	WIFI5G 802.11a 6M 60 EVS-WB 5.9kbps
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	87.26	WIFI5G 802.11a 6M 60 EVS-WB 5.9kbps
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	80.92	WIFI5G 802.11a 6M 60 EVS-WB 5.9kbps

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6
5.1b Receive Volume Control Performance 2N WB	7

Overall Receive Delay WB

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

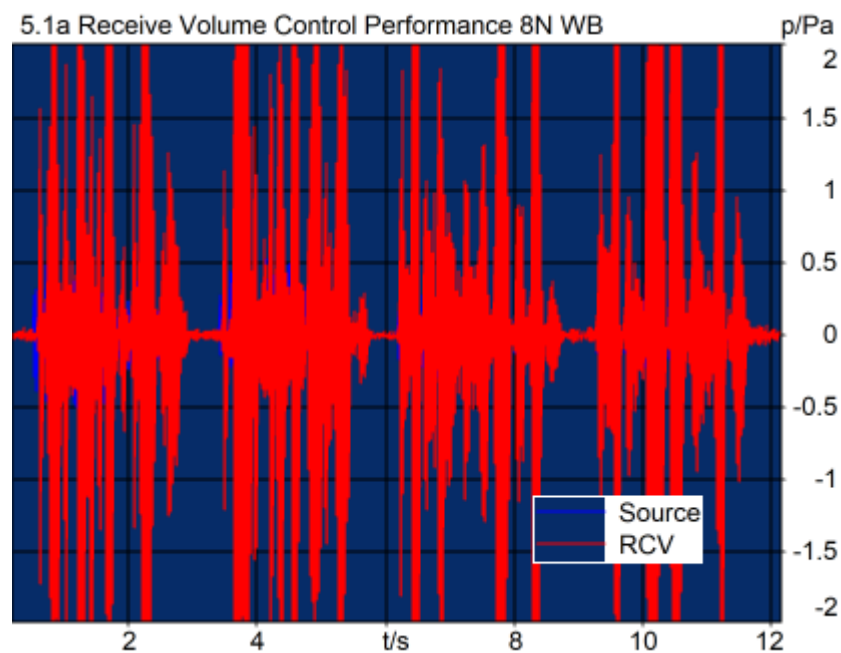


Channel	Delay	Correlation
RCV*Source	145.8 ms	33.33 %

2026-09-12 05:05 ACQUA 6.2.210

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	87.26 dB[SPL]	80.35%	Ok

Ok

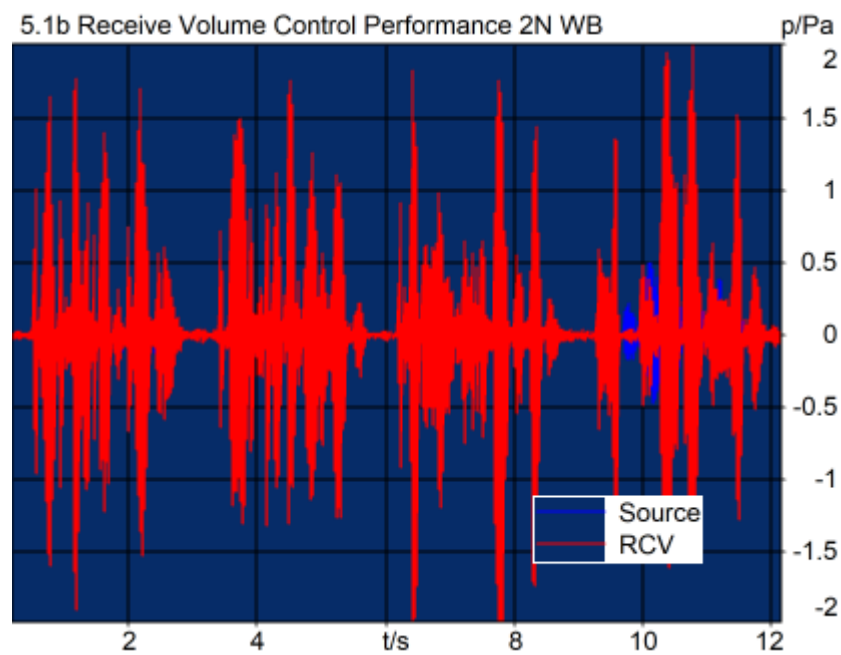
2026-09-12 05:06 ACQUA 6.2.210

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	80.92 dB[SPL]	84.77%	Ok

Ok

2026-09-12 05:06 ACQUA 6.2.210

Limits

lower
76.00 dB[SPL]