
Measurement Protocol

Measurement Object	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
--------------------	--

Project	T524J
Report Generation Date	1/15/2026 6:08 PM
Responsible Person	HP

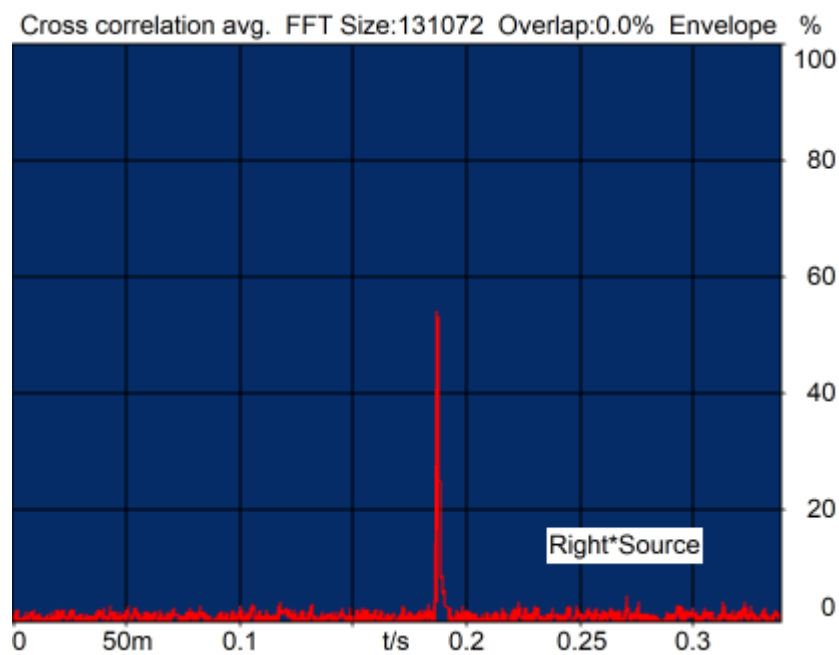
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	187.9	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.1a Receive Volume Control Performance 8N NB	Ok	Corrected Speech Level [dB[SPL]]	19.34	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.83	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.30	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.40	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.39	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.43	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.36	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.15	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.24	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.35	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.63	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	20.36	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 731.5 Hz	1.82	WLAN 2.4G 11n_EVS NB 24.4Kbps_8N_Max-1

Overall Receive Delay NB, Index: 1	5
5.1a Receive Volume Control Performance 8N NB, Index: 1	6
5.2 RCV Distortion and Noise - 400 Hz NB, Index: 1	7
5.2 RCV Distortion and Noise - 500 Hz NB, Index: 1	8
5.2 RCV Distortion and Noise - 630 Hz NB, Index: 1	9
5.2 RCV Distortion and Noise - 800 Hz NB, Index: 1	10
5.2 RCV Distortion and Noise - 1000 Hz NB, Index: 1	11
5.2 RCV Distortion and Noise - 1250 Hz NB, Index: 1	12
5.2 RCV Distortion and Noise - 1600 Hz NB, Index: 1	13
5.2 RCV Distortion and Noise - 2000 Hz NB, Index: 1	14
5.2 RCV Distortion and Noise - 2500 Hz NB, Index: 1	15
5.2 RCV Distortion and Noise - 3150 Hz NB, Index: 1	16
Report - Receive Distortion and Noise (Conversational Gain), Index: 1	17
5.3 Frequency Response 8N FF, Index: 1	18

Overall Receive Delay NB, Index: 1

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



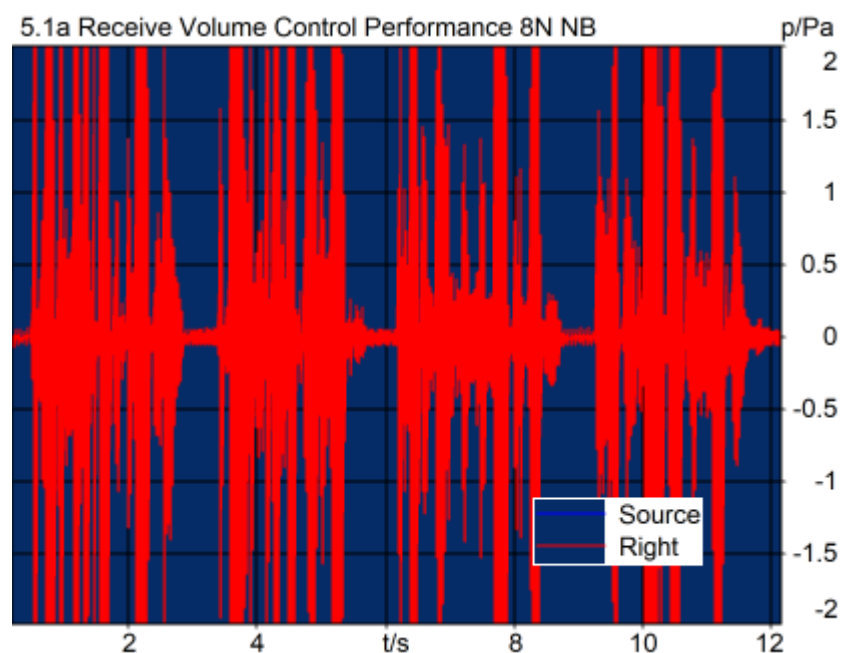
Channel	Delay	Correlation
Right*Source	187.9 ms	54.21 %

1/5/2026 4:45 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.1a Receive Volume Control Performance 8N NB, Index: 1

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



Correction

X - 70

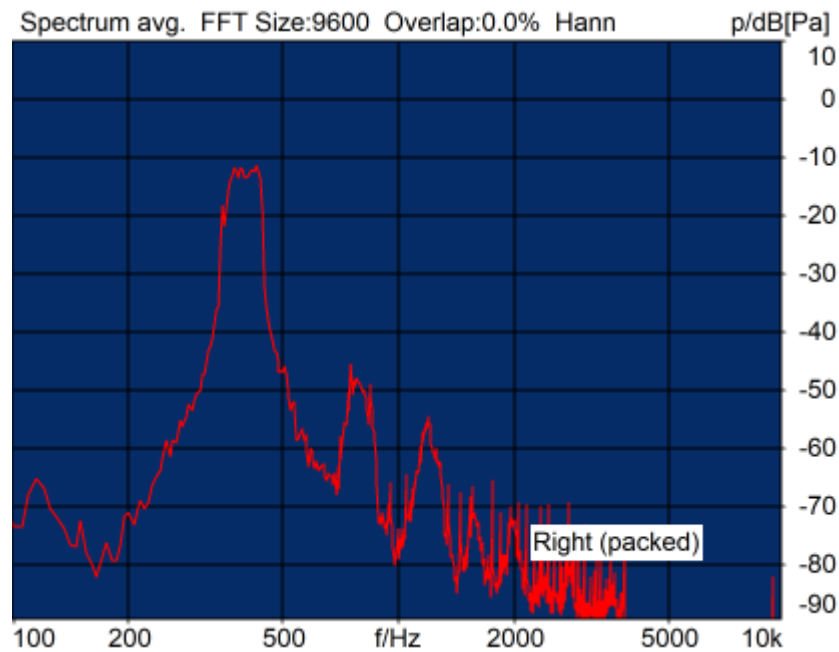
Channel	Speech level	Activity	Corrected speech level	
Right	89.34 dB[SPL]	80.44%	19.34 dB[SPL]	Ok

Ok

1/5/2026 4:45 PM ACQUA 6.1.110

5.2 RCV Distortion and Noise - 400 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 33.83 dB (2.04%) Ok

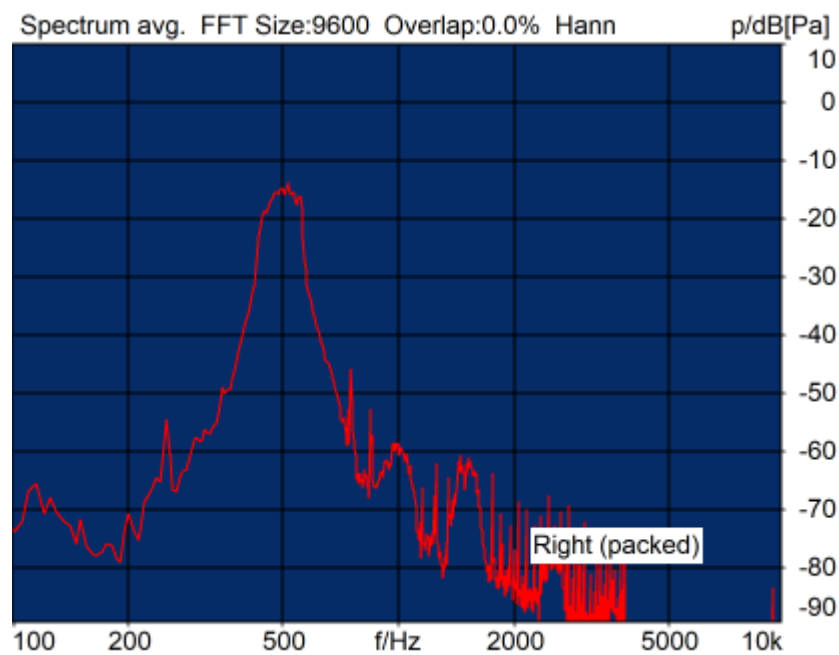
Ok

1/5/2026 4:46 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 500 Hz NB, Index: 1

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



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

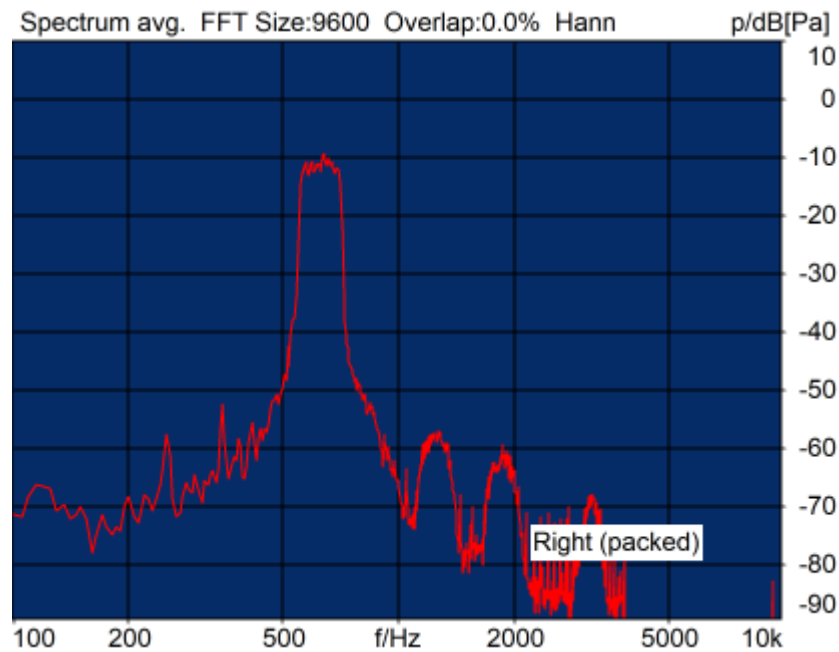
Ok

1/5/2026 4:46 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 630 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 37.40 dB (1.35%) Ok

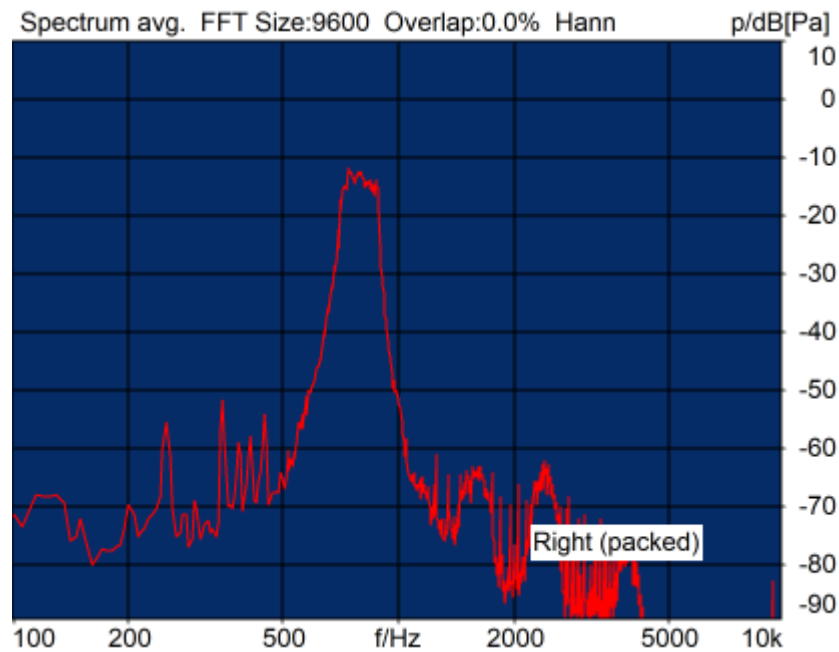
Ok

1/5/2026 4:47 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 800 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 29.39 dB (3.39%) Ok

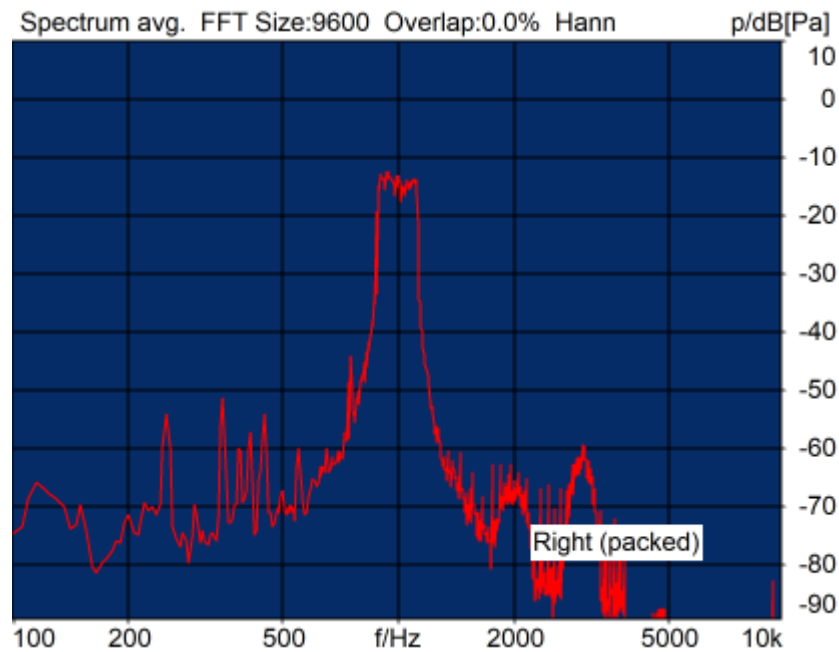
Ok

1/5/2026 4:47 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 1000 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 33.43 dB (2.13%) Ok

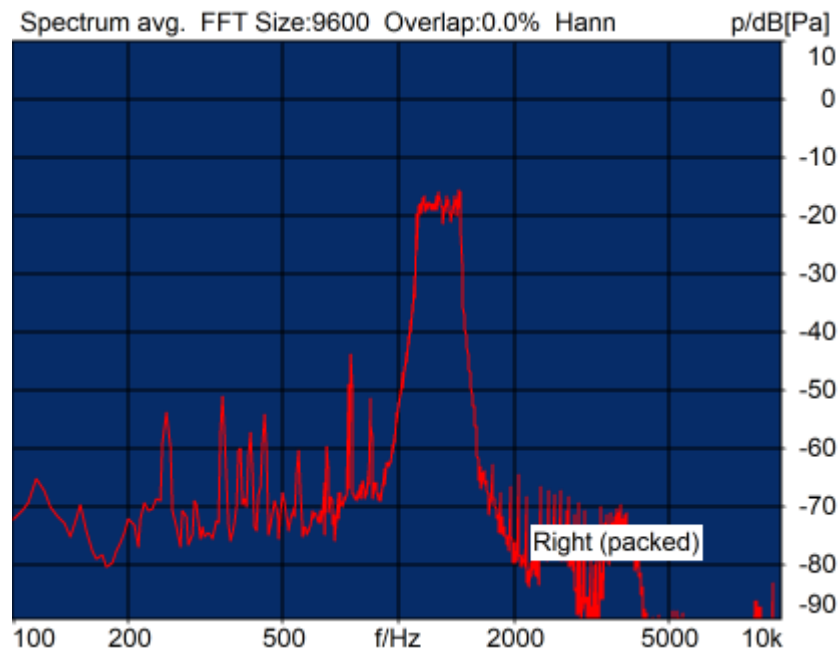
Ok

1/5/2026 4:48 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 1250 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 20.36 dB (9.60%) Ok

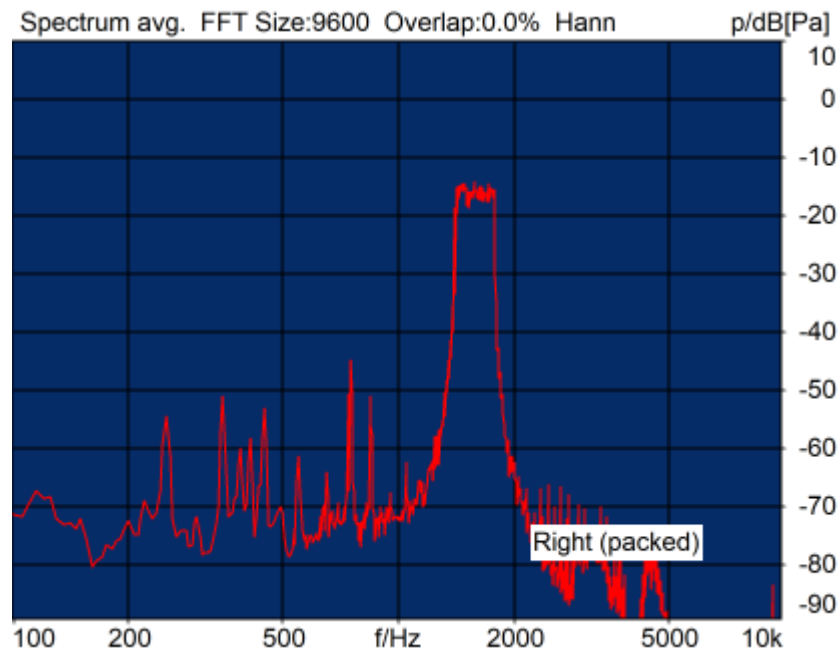
Ok

1/5/2026 4:48 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 1600 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 35.15 dB (1.75%) Ok

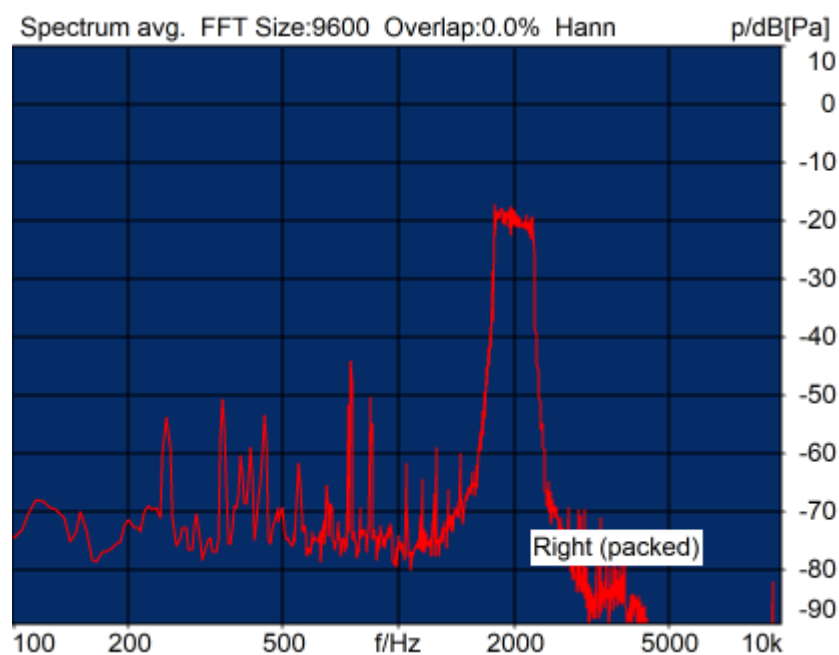
Ok

1/5/2026 4:48 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 2000 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 29.24 dB (3.45%) Ok

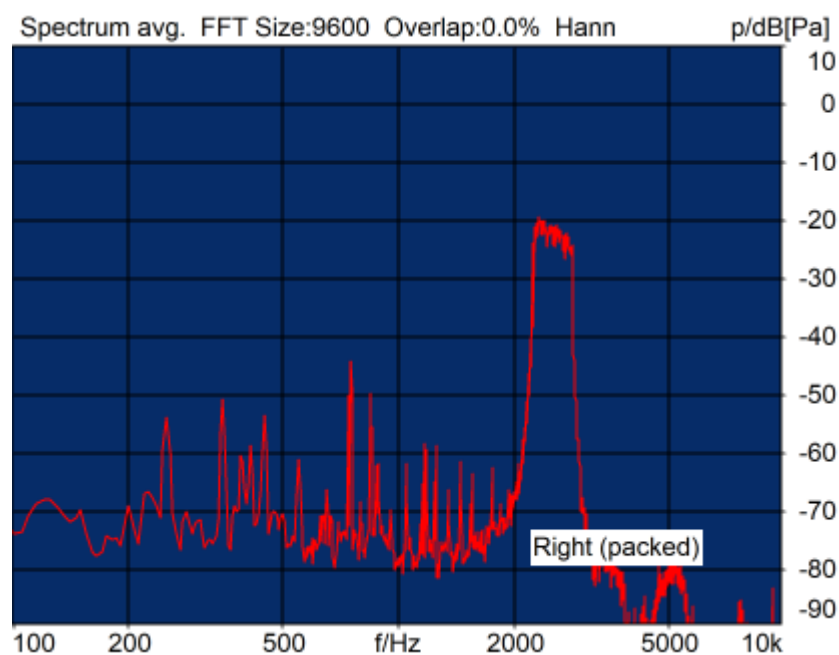
Ok

1/5/2026 4:49 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 2500 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 31.35 dB (2.71%) Ok

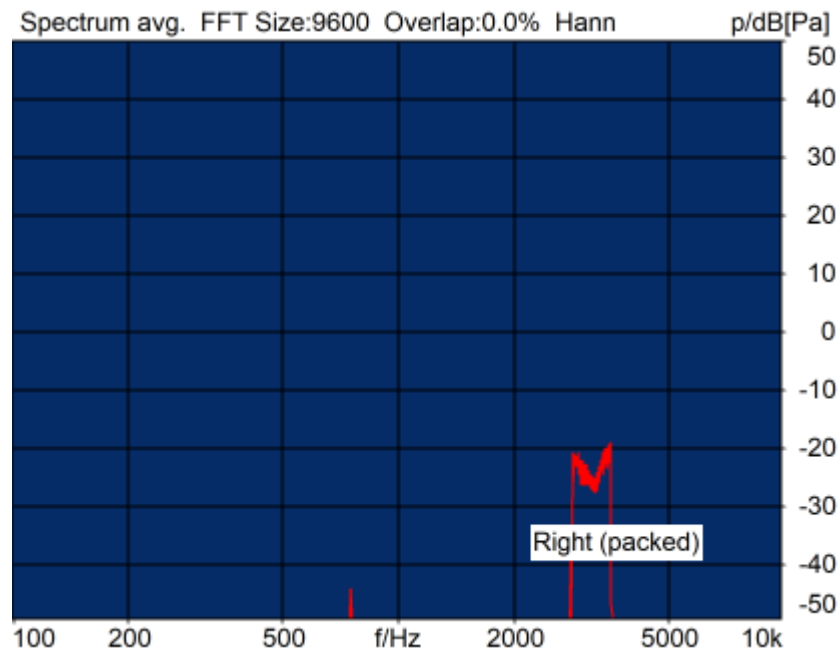
Ok

1/5/2026 4:49 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 3150 Hz NB, Index: 1

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



Distortion (Noise) Right (packed): 34.63 dB (1.86%) Ok

Ok

1/5/2026 4:50 PM ACQUA 6.1.110

Report - Receive Distortion and Noise (Conversational Gain), Index:

1

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

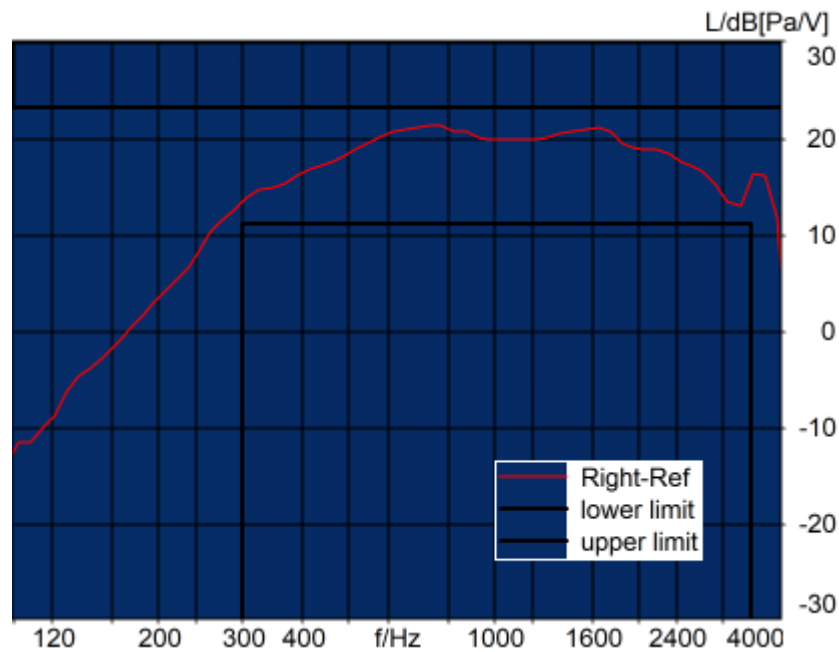
Region	Frequency	SDNR
1	400Hz	33.83 dB
2	500Hz	27.30 dB
3	630Hz	37.40 dB
4	800Hz	29.39 dB
5	1000Hz	33.43 dB
6	1250Hz	20.36 dB
7	1600Hz	35.15 dB
8	2000Hz	29.24 dB
9	2500Hz	31.35 dB
10	3150Hz	34.63 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.36dB at 1250Hz.

1/5/2026 4:50 PM ACQUA

5.3 Frequency Response 8N FF, Index: 1

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



Absolute minimal distance

1.82 dB at 731.5 Hz Ok

Ok

1/5/2026 4:51 PM ACQUA 6.1.110