

Appendix A

Volume Control Test Data and Graph for Report No.: SUES251100248871

The DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 6 .

Verdict: Pass.

1.1 For codecs with bit rate, check the bit rate with the worst conversational gain

Codec	Codec Bitrate (kbps)	Conv. Gain(dB)	
		LTE 41	
		2N	8N
AMR-NB	4.75	6.70	11.85
	5.15	6.71	11.86
	5.9	6.88	12.06
	6.7	7.58	12.47
	7.4	7.74	12.52
	7.95	7.78	13.01
	10.2	7.57	12.86
	12.2	7.71	12.85
AMR-WB	6.6	6.53	11.72
	8.85	6.96	11.78
	12.65	6.95	11.96
	14.25	7.07	12.40
	15.85	7.46	12.44
	18.25	7.56	12.59
	19.85	7.30	12.30
	23.05	7.16	12.28
	23.85	7.14	12.22
EVS-NB	5.9	6.67	11.91
	7.2	6.96	12.20
	8	7.08	12.31
	9.6	7.23	12.18
	13.2	7.25	12.32
	16.4	7.19	12.39
	24.4	6.91	12.44
EVS-WB	5.9	6.91	11.91
	7.2	6.99	12.03
	8	7.10	12.08
	9.6	7.14	12.44
	13.2	7.38	12.26
	16.4	7.31	12.30
	24.4	7.05	12.17
	32	7.25	12.21
	48	6.95	12.17
	64	7.13	12.27
	96	7.08	12.14
	128	7.19	12.01

1.2 For codecs with bit rate, tested only bit rate with the worst conversational gain

Air Interface	Band	Limit (dB)	Conv. Gain(dB)							
			AMR NB (4.75kbps)		AMR WB (6.6kbps)		EVS NB (5.9kbps)		EVS WB (5.9kbps)	
			2N	8N	2N	8N	2N	8N	2N	8N
LTE	B2	6	6.67	11.88	6.75	11.82	6.60	11.71	6.72	11.91
	B5	6	6.51	11.87	7.12	11.36	6.74	11.68	6.61	11.89
	B5 – Sample 2	6	N/A			14.64	N/A			
	B7	6	6.14	11.96	6.89	11.60	6.89	11.66	6.66	11.79
	B7 – Sample 2	6	10.69	N/A						
	B12(17)	6	6.56	11.84	6.69	11.51	6.79	11.60	6.90	11.83
	B13	6	6.49	11.87	6.85	11.79	6.58	11.86	6.80	11.77
	B41	6	6.70	11.85	6.53	11.72	6.67	11.91	6.64	11.91
	B66(4)	6	6.31	11.89	7.04	11.82	6.50	11.89	6.74	11.75
	B71	6	6.59	11.82	6.83	11.70	6.73	11.81	6.51	11.79

The noise power shall ≥ 20 when tested over the range of 1/3 octave band center frequencies. The receive frequency response shall be measured at the DRP in 1/12 octave bands. After translation to the FF, it shall fall between the applicable upper and lower limits.

Volume Control: Max-1, LRP: FF

Verdict: Pass

2.1 Distortion Test Result and Frequency Response for EVS-NB 24.4 kbps and LTE

Air Interface	Band	Limit (dB)	Mounting Force	Minimum PN-SDNR (dB)	Receive Acoustic Frequency Response Performance
LTE	B2	20	2N	23.51	2.23
	B2 – Sample 2	20	2N	24.11	2.75
	B2	20	8N	26.99	3.50
	B5	20	2N	27.91	2.89
	B5	20	8N	24.97	3.47
	B7	20	2N	28.11	3.18
	B7	20	8N	27.28	3.70
	B12(17)	20	2N	29.58	2.92
	B12(17)	20	8N	24.90	3.69
	B13	20	2N	24.29	3.10
	B13	20	8N	29.71	3.83
	B41	20	2N	26.81	2.64
	B41	20	8N	27.48	3.62
	B66(4)	20	2N	24.08	2.46
	B66(4)	20	8N	27.82	3.53
	B71	20	2N	27.60	2.76
	B71	20	8N	24.13	3.60

	B71 – Sample 2	20	8N	24.29	2.86
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2.2 Distortion Test Result and Frequency Response for EVB-WB 128 kbps and LTE

Air Interface	Band	Limit (dB)	Mounting Force	Minimum PN-SDNR (dB)	Receive Acoustic Frequency Response Performance
LTE	B2	20	2N	24.81	0.92
	B2	20	8N	25.00	1.16
	B5	20	2N	25.53	1.02
	B5	20	8N	22.64	0.83
	B7	20	2N	26.36	0.57
	B7	20	8N	26.35	0.90
	B12(17)	20	2N	24.03	0.83
	B12(17)	20	8N	22.25	1.10
	B13	20	2N	28.29	0.76
	B13	20	8N	23.53	0.85
	B41	20	2N	23.47	0.96
	B41	20	8N	21.13	1.09
	B41 – Sample 2	20	2N	21.91	0.32
	B41 – Sample 2	20	8N	21.94	0.27
	B66(4)	20	2N	26.30	0.89
	B66(4)	20	8N	21.33	0.99
	B71	20	2N	29.60	0.92
	B71	20	8N	29.40	0.89

Measurement Protocol

Measurement Object	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
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Project	Stratus C9
Report Generation Date	12/17/2025 10:08 AM
Responsible Person	HP

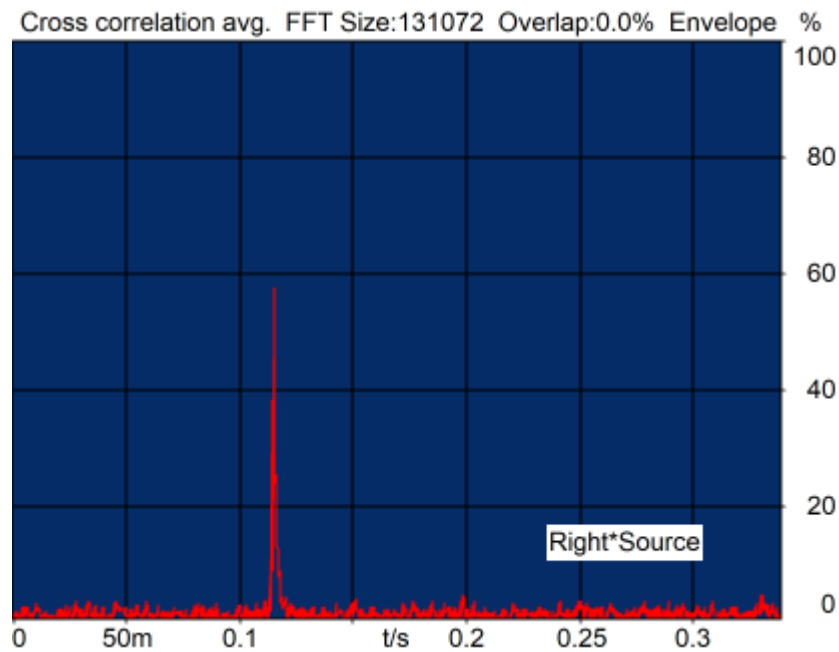
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	115.7	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.1b Receive Volume Control Performance 2N NB	Ok	Corrected Speech Level [dB[SPL]]	6.89	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.55	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.65	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.62	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.88	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.98	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.51	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.19	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.19	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.77	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.57	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	23.51	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 3882.4 Hz	2.23	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1

Overall Receive Delay NB, Index: 1	5
5.1b Receive Volume Control Performance 2N 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 2N FF HANB, Index: 1	18

Overall Receive Delay NB, Index: 1

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



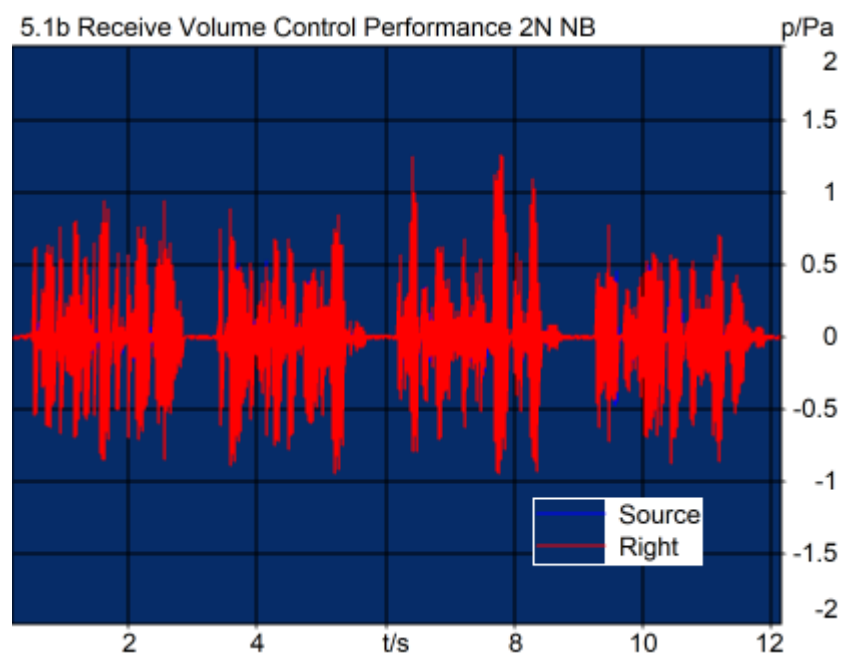
Channel	Delay	Correlation
Right*Source	115.7 ms	57.71 %

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Unmodified HEAD acoustics Measurement Descriptor

5.1b Receive Volume Control Performance 2N NB, Index: 1

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



Correction

X-70

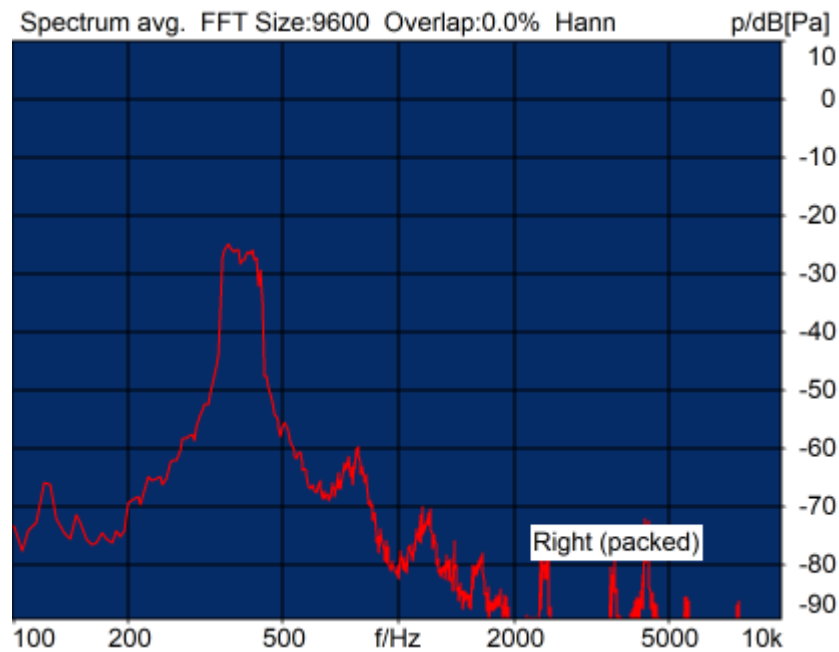
Channel	Speech level	Activity	Corrected speech level	
Right	76.89 dB[SPL]	81.27%	6.89 dB[SPL]	Ok

Ok

12/12/2025 3:20 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 2N



Distortion (Noise) Right (packed): 30.55 dB (2.97%) Ok

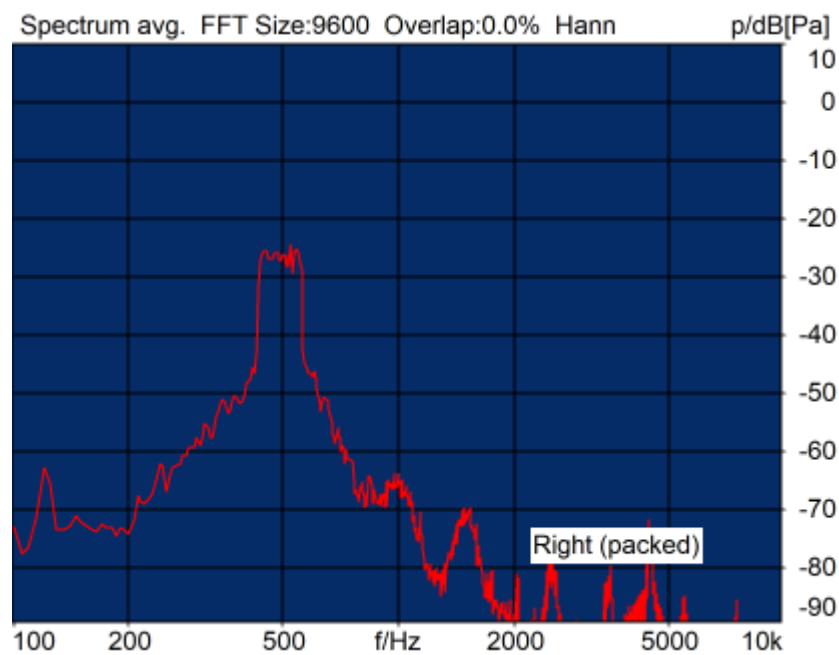
Ok

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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 2N



Distortion (Noise) Right (packed): 25.65 dB (5.22%) Ok

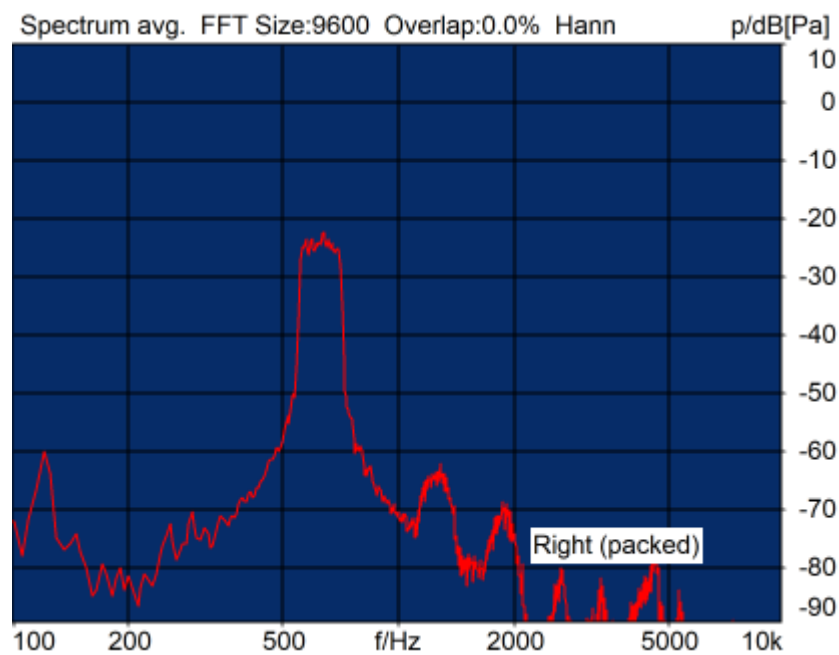
Ok

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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 2N



Distortion (Noise) Right (packed): 32.62 dB (2.34%) Ok

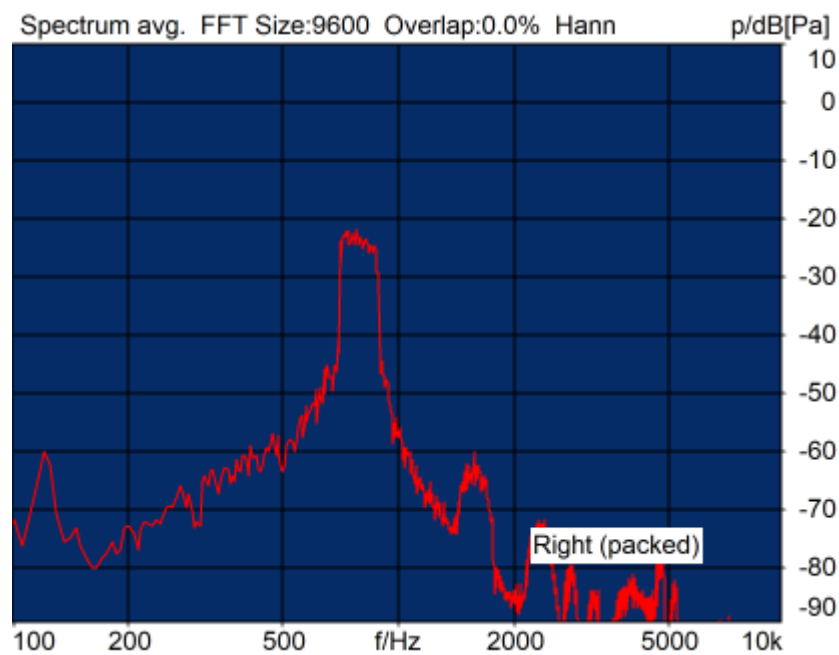
Ok

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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 2N



Distortion (Noise) Right (packed): 26.88 dB (4.53%) Ok

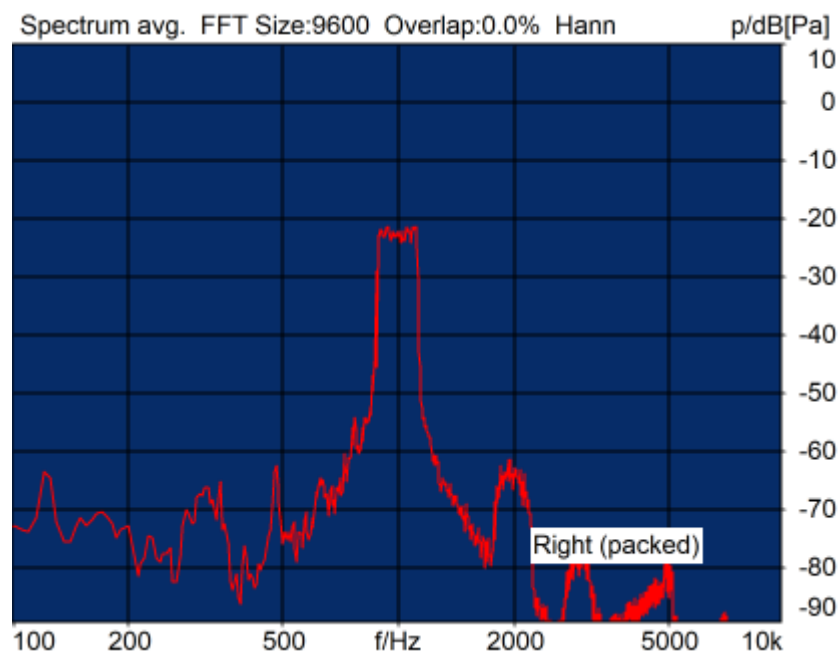
Ok

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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 2N



Distortion (Noise) Right (packed): 32.98 dB (2.24%) Ok

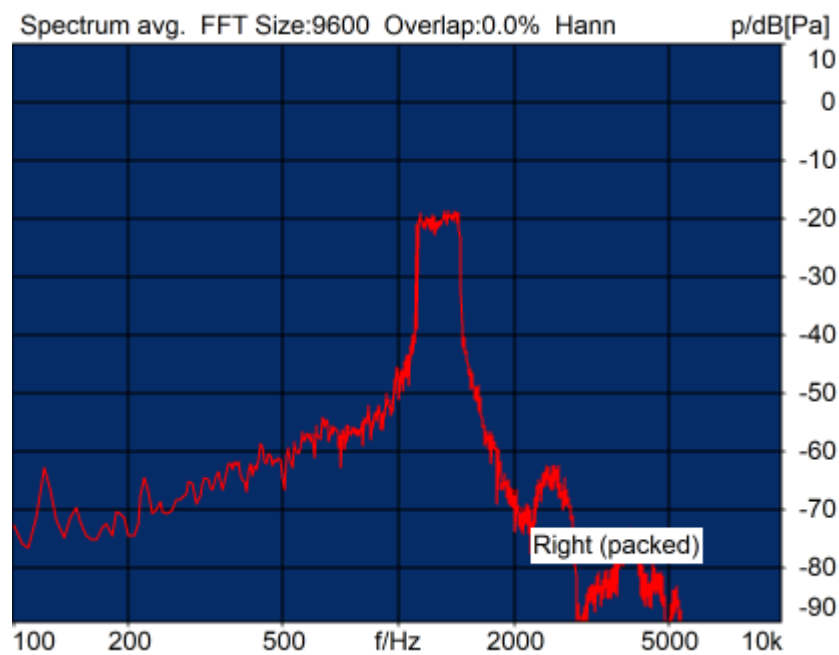
Ok

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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 2N



Distortion (Noise) Right (packed): 23.51 dB (6.67%) Ok

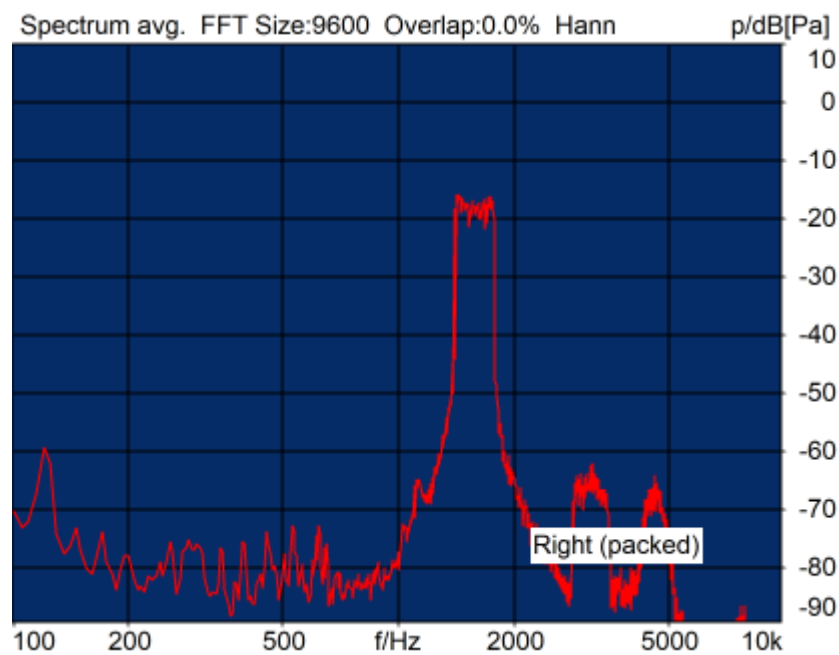
Ok

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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 2N



Distortion (Noise) Right (packed): 38.19 dB (1.23%) Ok

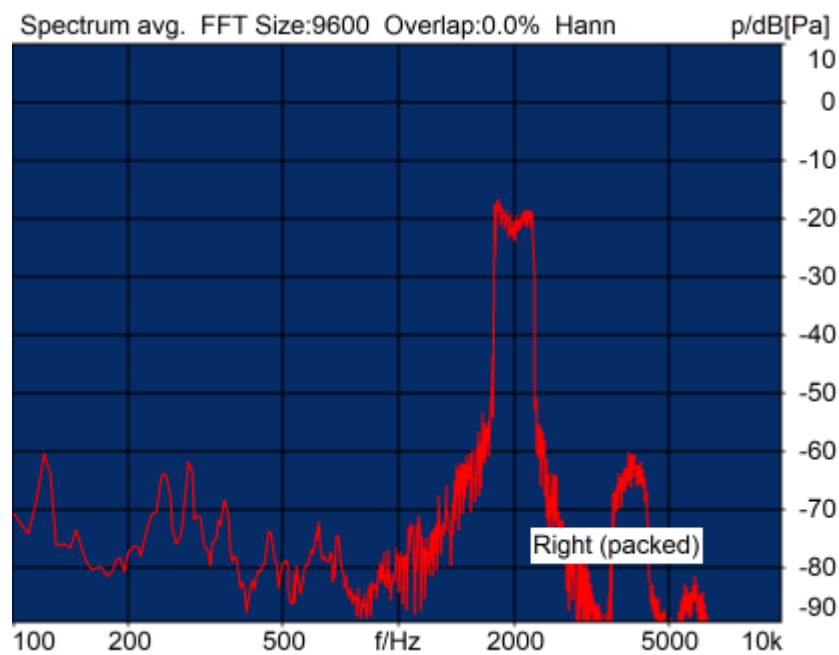
Ok

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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 2N



Distortion (Noise) Right (packed): 36.19 dB (1.55%) Ok

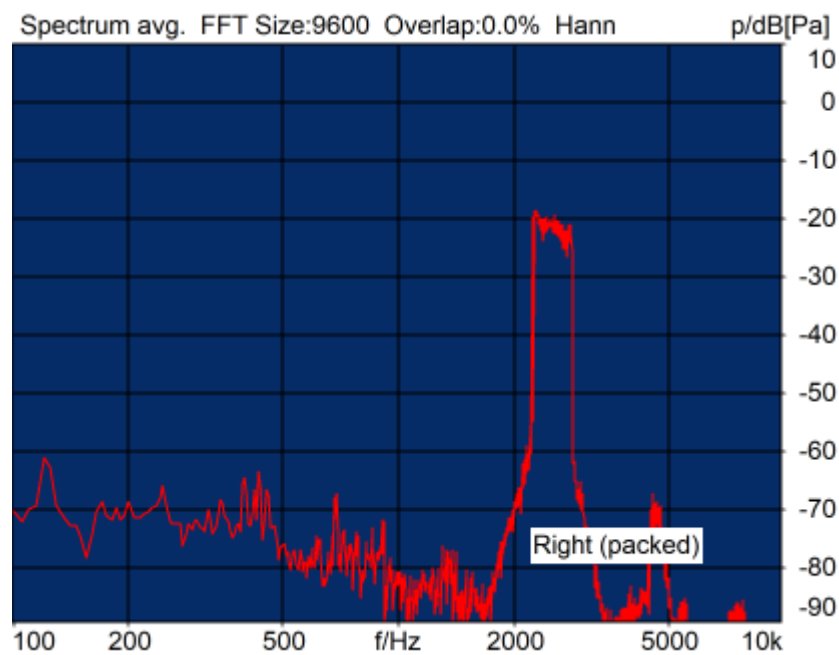
Ok

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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 2N



Distortion (Noise) Right (packed): 42.77 dB (0.73%) Ok

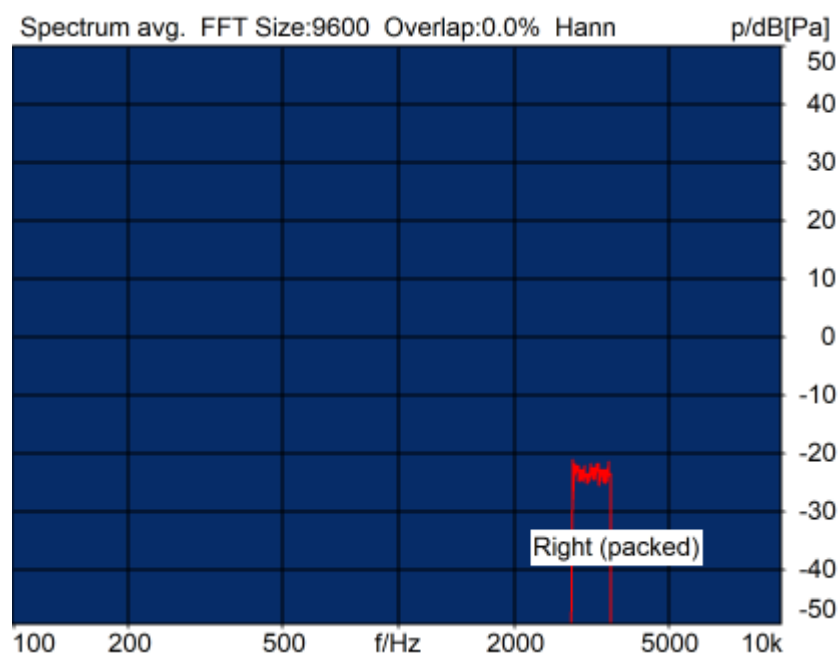
Ok

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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 2N



Distortion (Noise) Right (packed): 37.57 dB (1.32%) Ok

Ok

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Unmodified HEAD acoustics Measurement Descriptor

Report - Receive Distortion and Noise (Conversational Gain), Index:
1

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

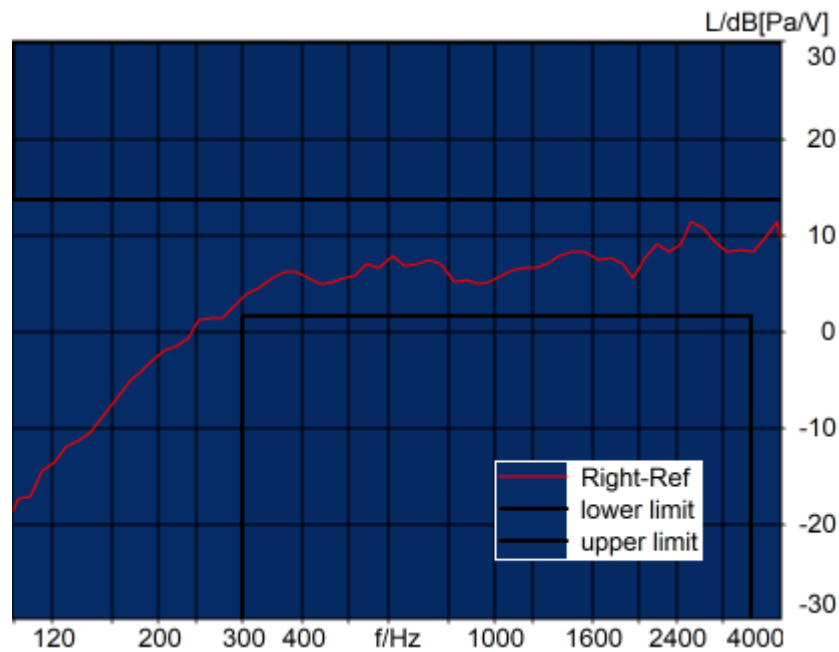
Region	Frequency	SDNR
1	400Hz	30.55 dB
2	500Hz	25.65 dB
3	630Hz	32.62 dB
4	800Hz	26.88 dB
5	1000Hz	32.98 dB
6	1250Hz	23.51 dB
7	1600Hz	38.19 dB
8	2000Hz	36.19 dB
9	2500Hz	42.77 dB
10	3150Hz	37.57 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 23.51dB at 1250Hz.

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5.3 Frequency Response 2N FF HANB, Index: 1

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



Absolute minimal distance

2.23 dB at 3882.4 Hz Ok

Ok

12/12/2025 3:25 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

Measurement Protocol

Measurement Object	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
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Project	Stratus C9
Report Generation Date	12/17/2025 10:12 AM
Responsible Person	HP

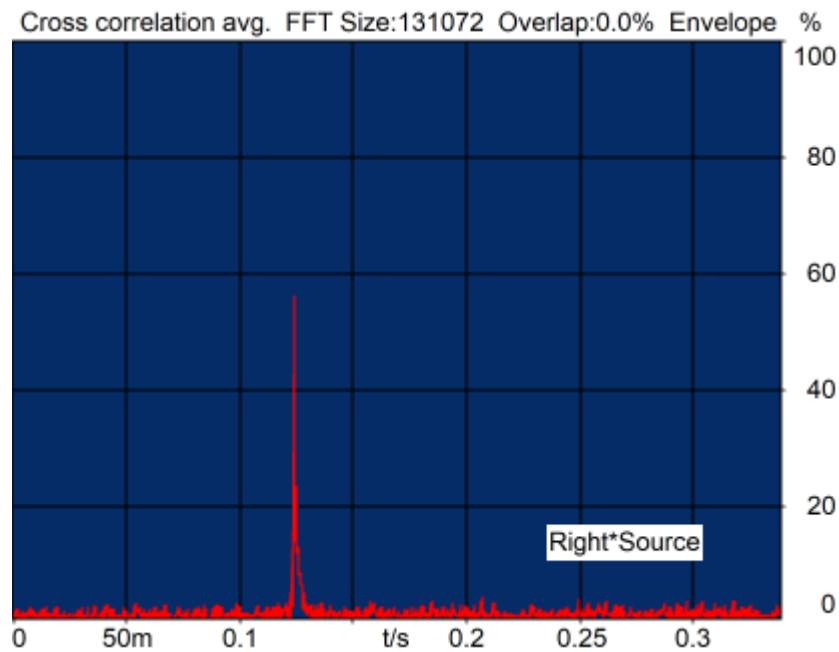
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	124.2	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	7.19	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.36	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.62	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.40	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.86	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.21	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.02	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.62	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.58	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.47	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.06	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.08	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.09	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.46	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.61	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1600Hz)	23.47	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	0.96	LTE Band 41_EVS WB 24.4Kbps_2N_Max-1

Overall Receive Delay WB, Index: 1	5
5.1b Receive Volume Control Performance 2N WB, Index: 1	6
5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1	7
5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1	8
5.2 RCV Distortion and Noise - 400 Hz WB, Index: 1	9
5.2 RCV Distortion and Noise - 500 Hz WB, Index: 1	10
5.2 RCV Distortion and Noise - 630 Hz WB, Index: 1	11
5.2 RCV Distortion and Noise - 800 Hz WB, Index: 1	12
5.2 RCV Distortion and Noise - 1000 Hz WB, Index: 1	13
5.2 RCV Distortion and Noise - 1250 Hz WB, Index: 1	14
5.2 RCV Distortion and Noise - 1600 Hz WB, Index: 1	15
5.2 RCV Distortion and Noise - 2000 Hz WB, Index: 1	16
5.2 RCV Distortion and Noise - 2500 Hz WB, Index: 1	17
5.2 RCV Distortion and Noise - 3150 Hz WB, Index: 1	18
5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1	19
5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1	20
Report - Receive Distortion and Noise (Conversational Gain), Index: 1	21
5.3 Frequency Response 2N FF, Index: 1	22

Overall Receive Delay WB, Index: 1

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



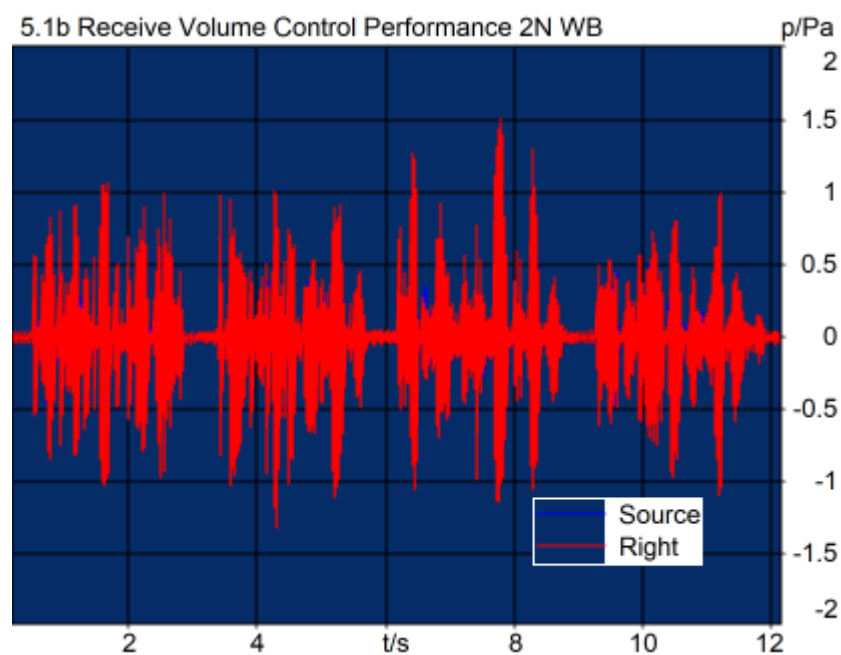
Channel	Delay	Correlation
Right*Source	124.2 ms	56.19 %

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Unmodified HEAD acoustics Measurement Descriptor

5.1b Receive Volume Control Performance 2N WB, Index: 1

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



Correction

X-70

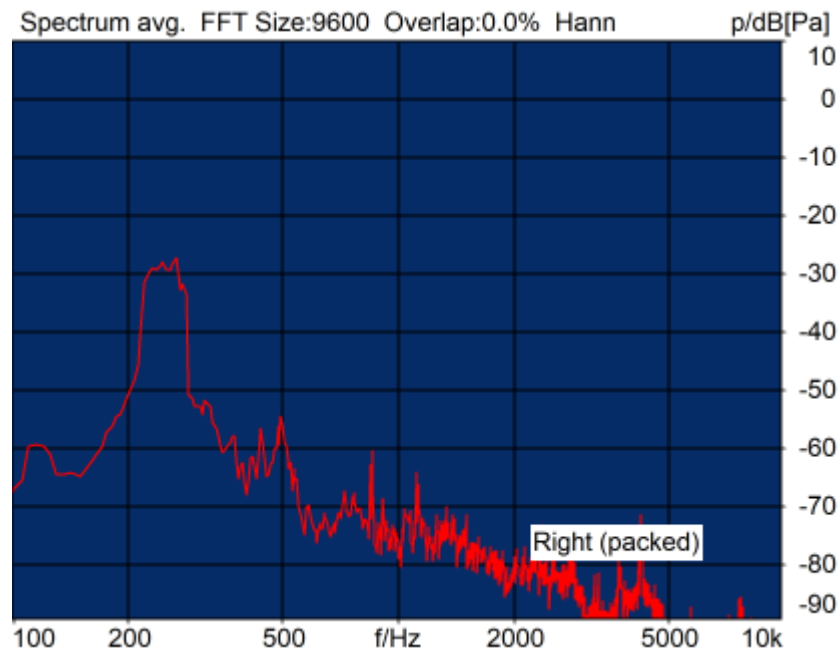
Channel	Speech level	Activity	Corrected speech level	
Right	77.19 dB[SPL]	86.19%	7.19 dB[SPL]	Ok

Ok

12/12/2025 11:20 AM ACQUA 6.1.110

5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 26.36 dB (4.81%) Ok

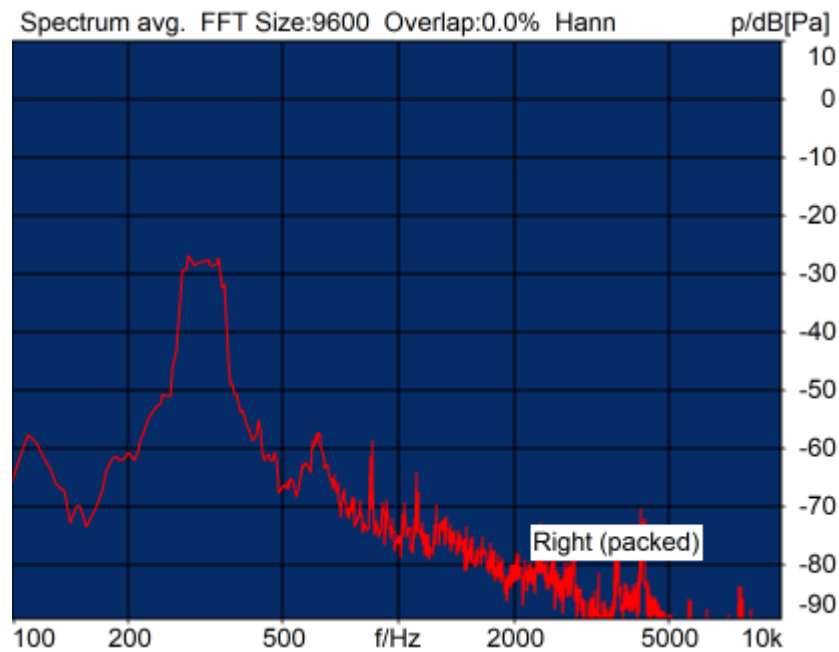
Ok

12/12/2025 11:21 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 27.62 dB (4.16%) Ok

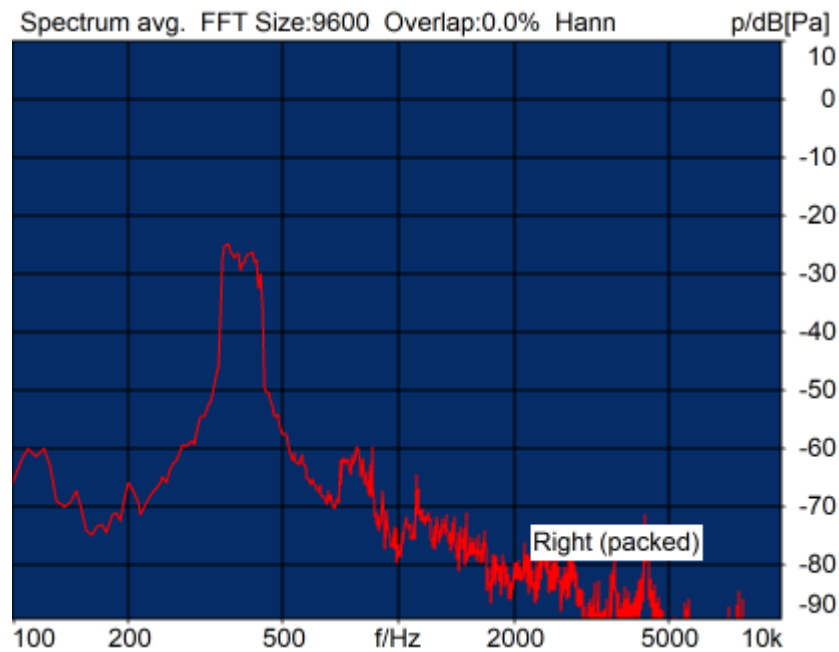
Ok

12/12/2025 11:21 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 29.40 dB (3.39%) Ok

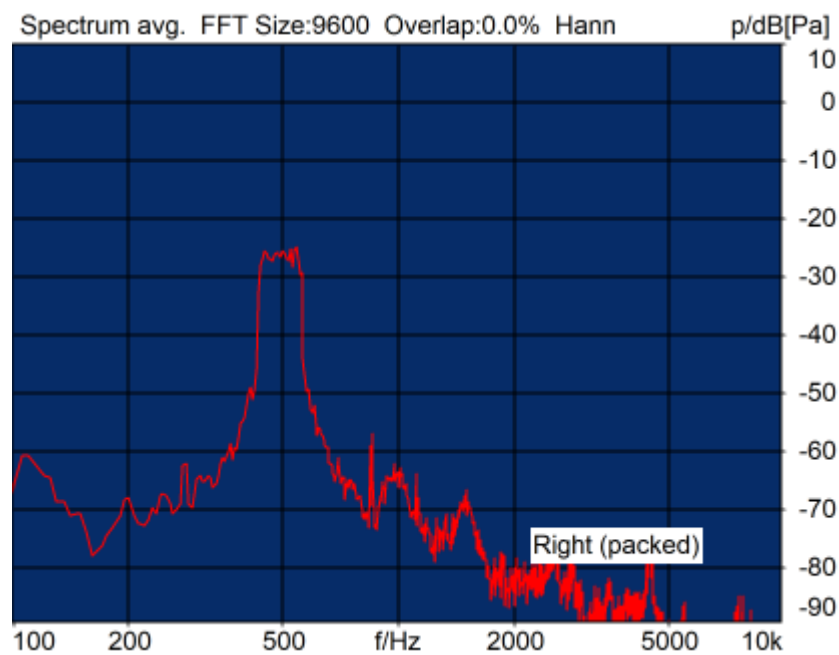
Ok

12/12/2025 11:21 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 29.86 dB (3.21%) Ok

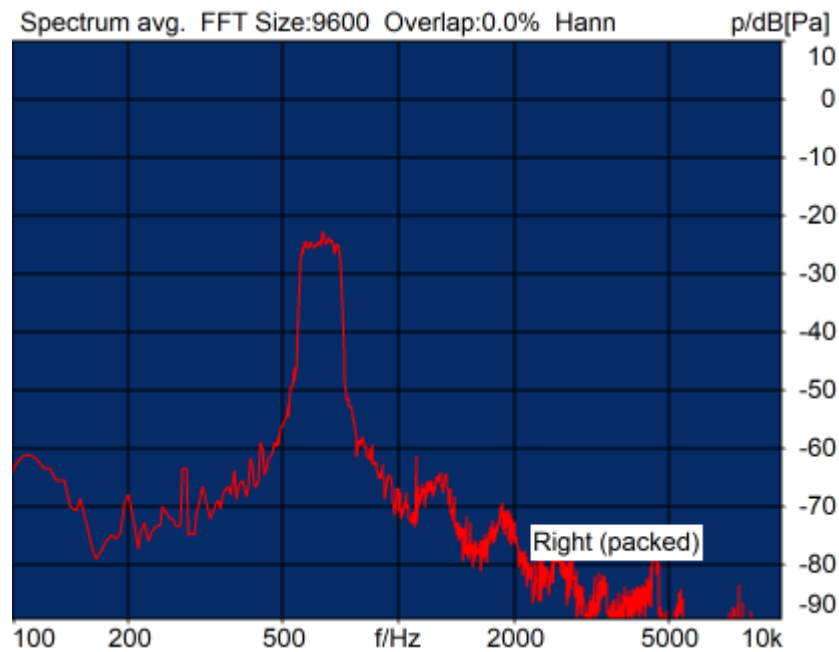
Ok

12/12/2025 11:22 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 31.21 dB (2.75%) Ok

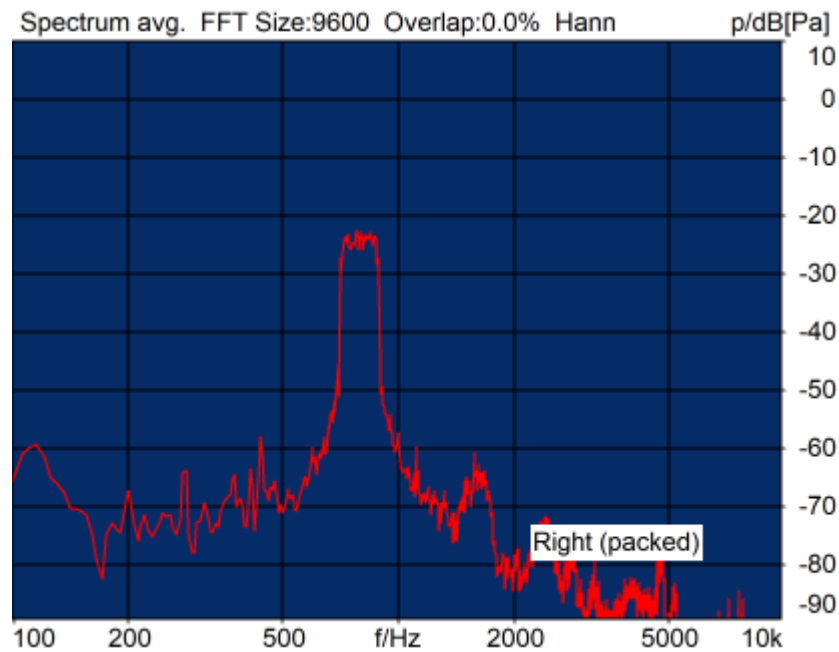
Ok

12/12/2025 11:22 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 32.02 dB (2.51%) Ok

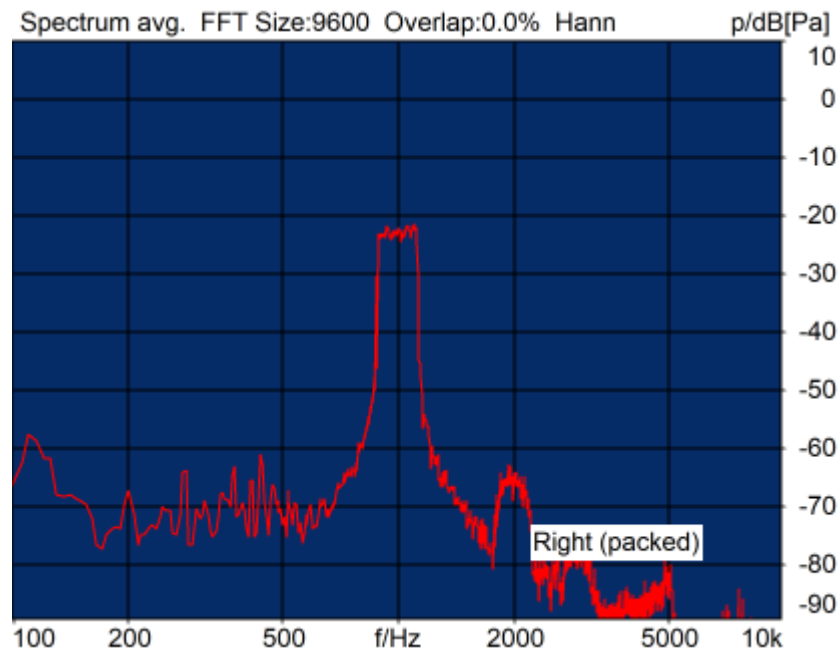
Ok

12/12/2025 11:23 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 33.62 dB (2.08%) Ok

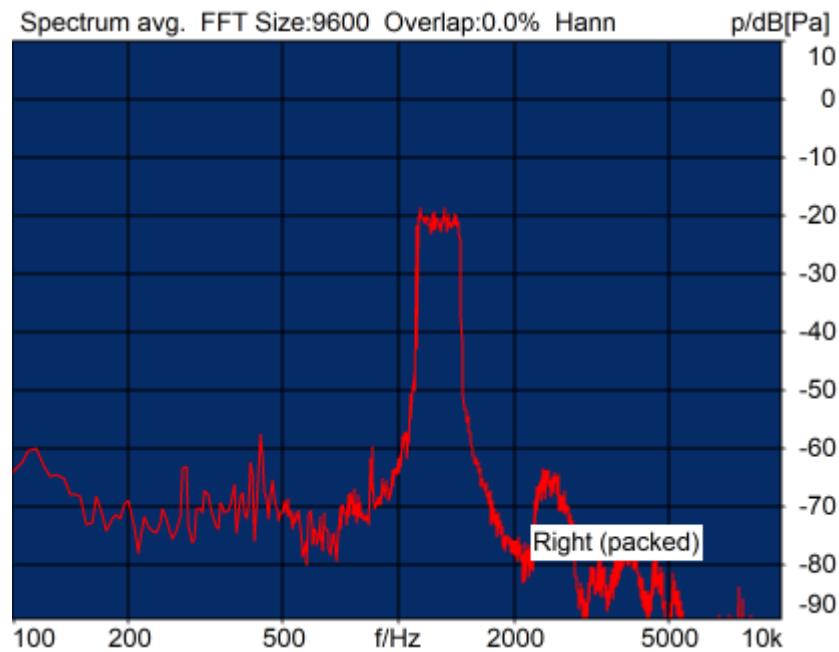
Ok

12/12/2025 11:23 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 30.58 dB (2.96%) Ok

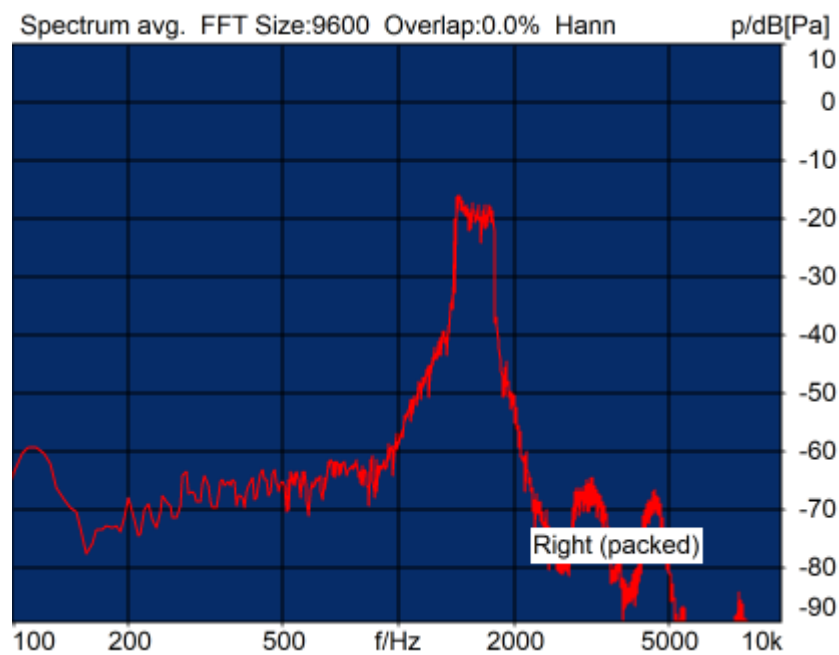
Ok

12/12/2025 11:24 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 23.47 dB (6.71%) Ok

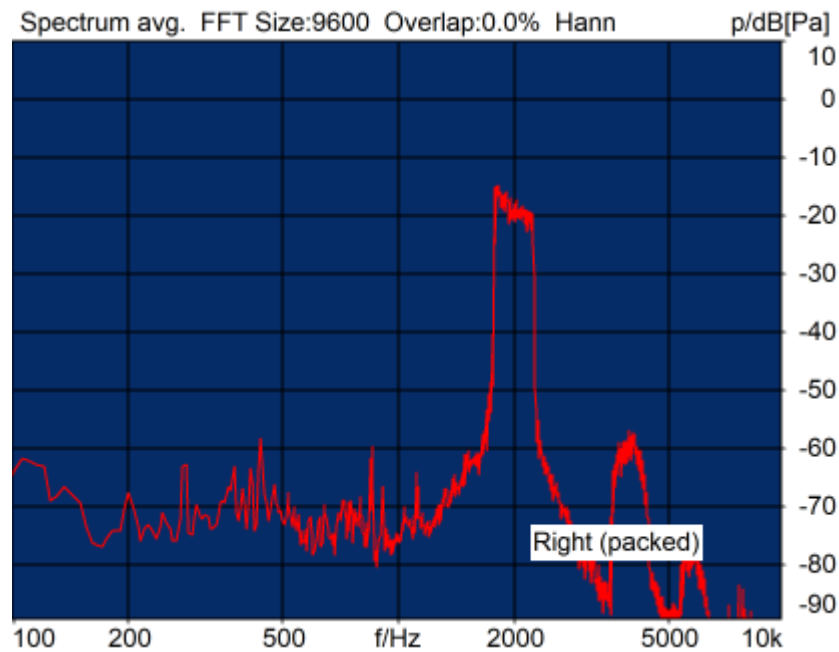
Ok

12/12/2025 11:24 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 36.06 dB (1.57%) Ok

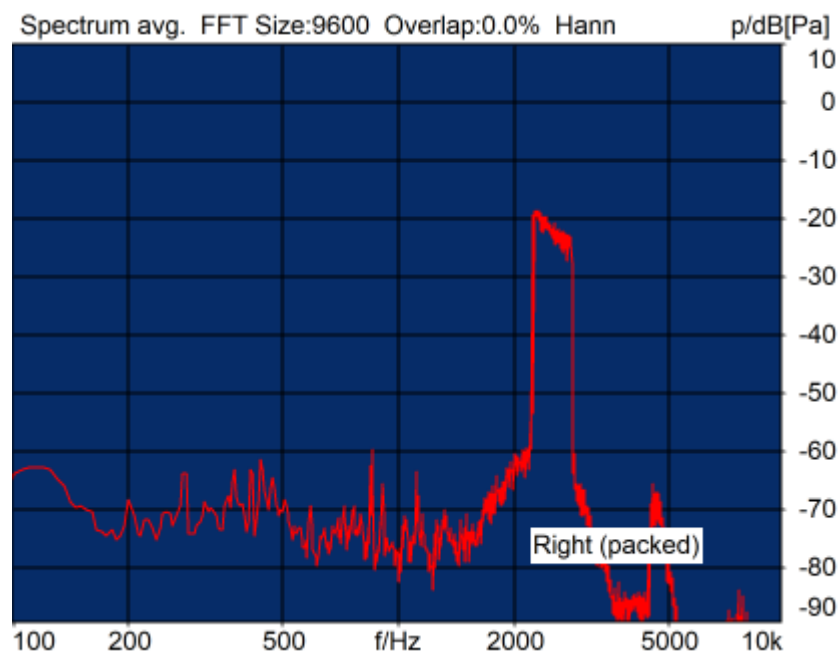
Ok

12/12/2025 11:24 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 39.08 dB (1.11%) Ok

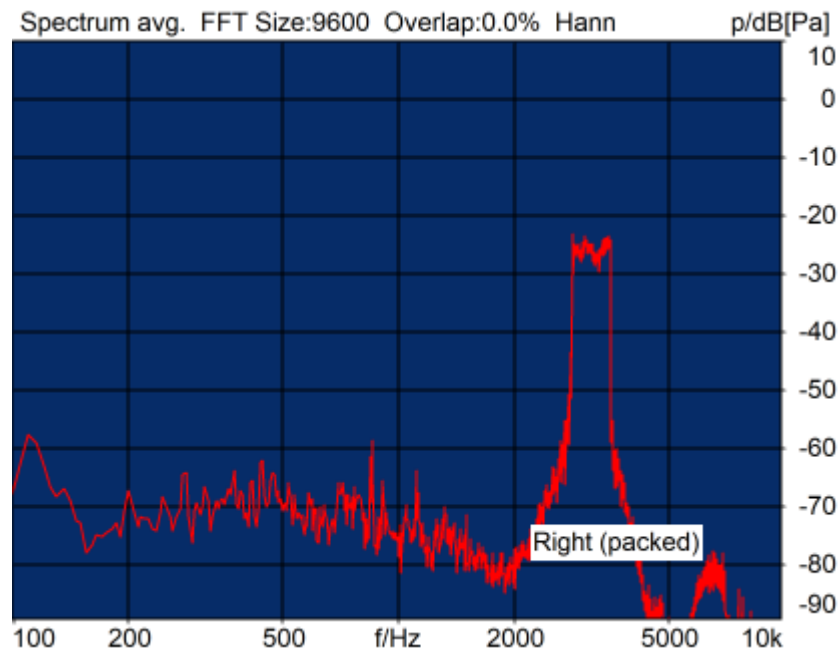
Ok

12/12/2025 11:25 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 34.09 dB (1.97%) Ok

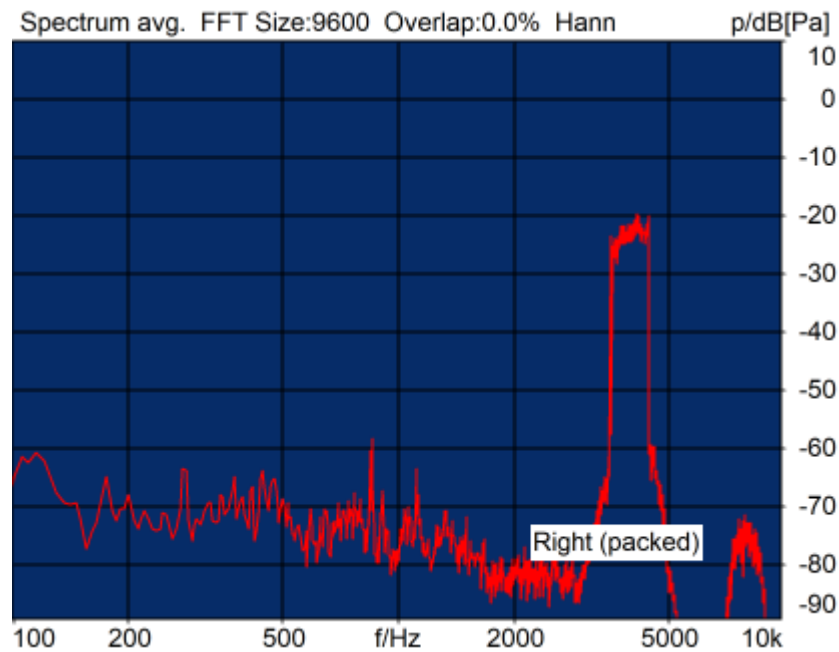
Ok

12/12/2025 11:25 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1

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



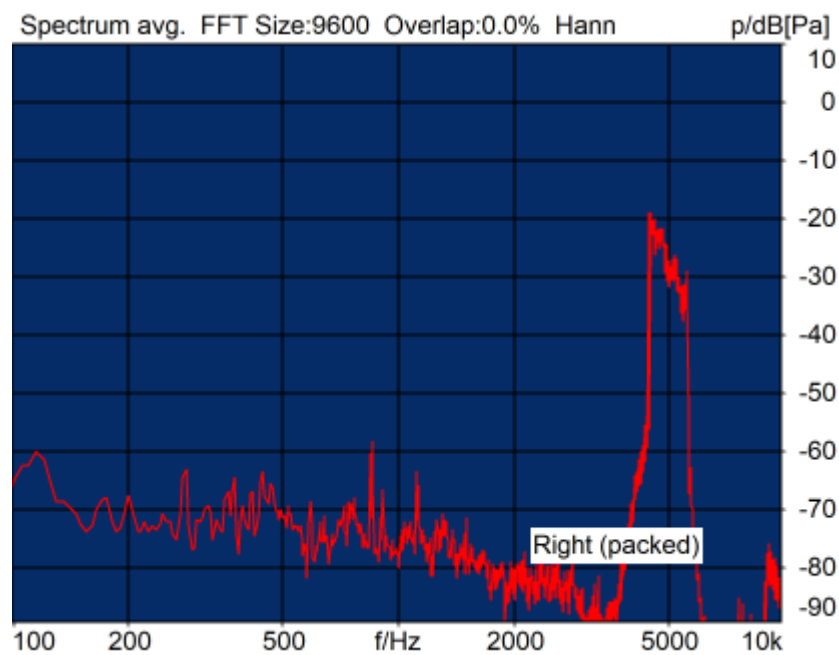
Distortion (Noise) Right (packed): 41.46 dB (0.85%) Ok

Ok

12/12/2025 11:26 AM ACQUA 6.1.110

5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 38.61 dB (1.17%) Ok

Ok

12/12/2025 11:26 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

1

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

Region	Frequency	SDNR
1	250Hz	26.36 dB
2	315Hz	27.62 dB
3	400Hz	29.40 dB
4	500Hz	29.86 dB
5	630Hz	31.21 dB
6	800Hz	32.02 dB
7	1000Hz	33.62 dB
8	1250Hz	30.58 dB
9	1600Hz	23.47 dB
10	2000Hz	36.06 dB
11	2500Hz	39.08 dB
12	3150Hz	34.09 dB
13	4000Hz	41.46 dB
14	5000Hz	38.61 dB

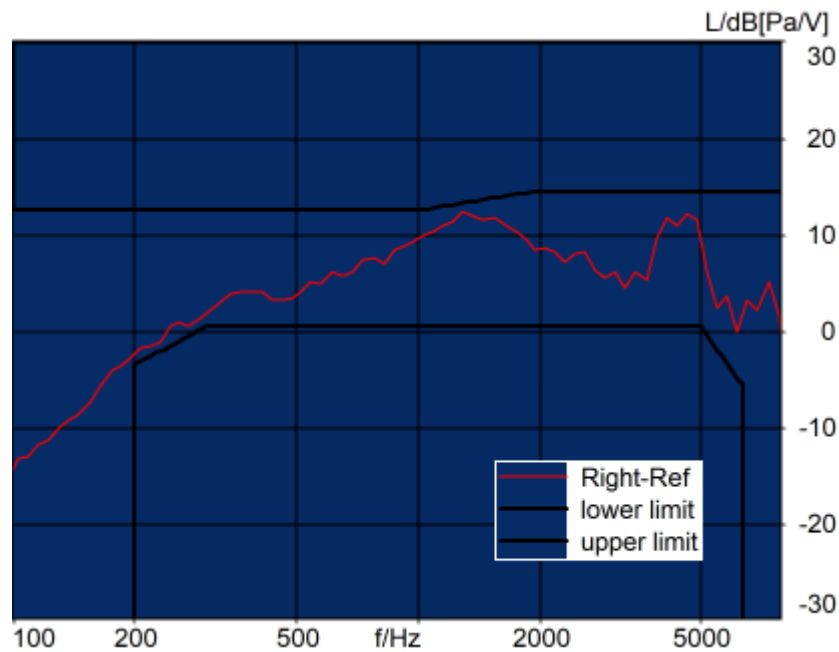
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.47dB at 1600Hz.

12/12/2025 11:26 AM ACQUA

5.3 Frequency Response 2N FF, Index: 1

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



Absolute minimal distance

0.96 dB at 1285.9 Hz Ok

Ok

12/12/2025 11:27 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

Measurement Protocol

Measurement Object	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
--------------------	--------------------------------------

Project	Stratus C9
Report Generation Date	12/17/2025 10:12 AM
Responsible Person	HP

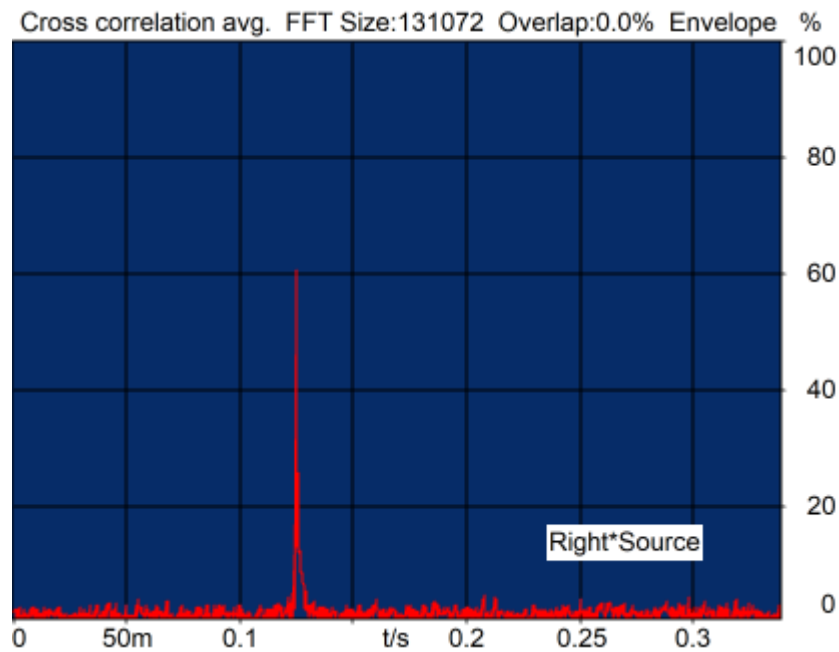
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	125.2	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	12.01	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.27	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.79	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.62	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.72	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.88	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.18	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.08	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.65	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.05	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.13	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.35	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.39	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.66	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.04	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.13	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	1.09	LTE Band 41_EVS WB 24.4Kbps_8N_Max-1

Overall Receive Delay WB, Index: 1	5
5.1a Receive Volume Control Performance 8N WB, Index: 1	6
5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1	7
5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1	8
5.2 RCV Distortion and Noise - 400 Hz WB, Index: 1	9
5.2 RCV Distortion and Noise - 500 Hz WB, Index: 1	10
5.2 RCV Distortion and Noise - 630 Hz WB, Index: 1	11
5.2 RCV Distortion and Noise - 800 Hz WB, Index: 1	12
5.2 RCV Distortion and Noise - 1000 Hz WB, Index: 1	13
5.2 RCV Distortion and Noise - 1250 Hz WB, Index: 1	14
5.2 RCV Distortion and Noise - 1600 Hz WB, Index: 1	15
5.2 RCV Distortion and Noise - 2000 Hz WB, Index: 1	16
5.2 RCV Distortion and Noise - 2500 Hz WB, Index: 1	17
5.2 RCV Distortion and Noise - 3150 Hz WB, Index: 1	18
5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1	19
5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1	20
Report - Receive Distortion and Noise (Conversational Gain), Index: 1	21
5.3 Frequency Response 8N FF, Index: 1	22

Overall Receive Delay WB, Index: 1

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



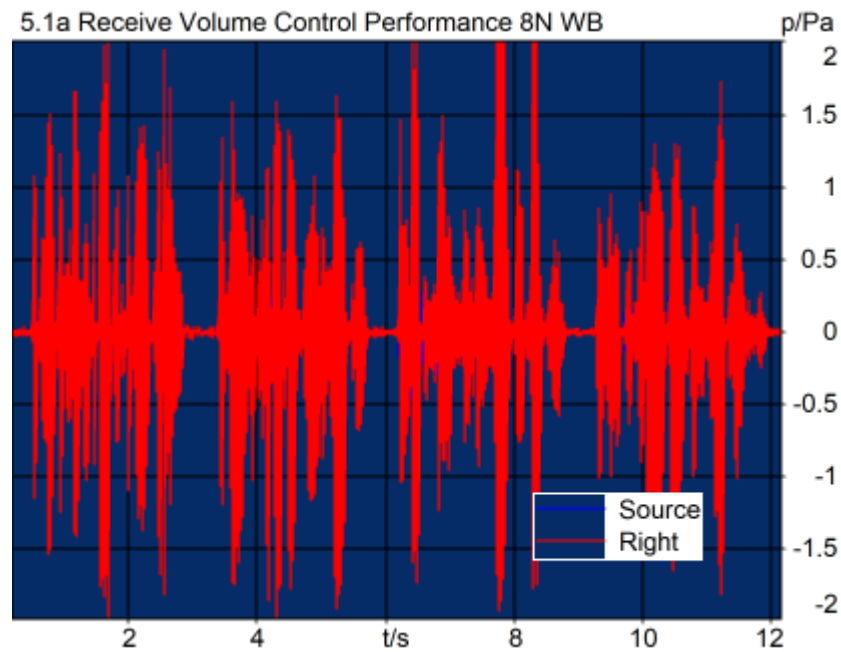
Channel	Delay	Correlation
Right*Source	125.2 ms	60.88 %

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Correction

X - 70

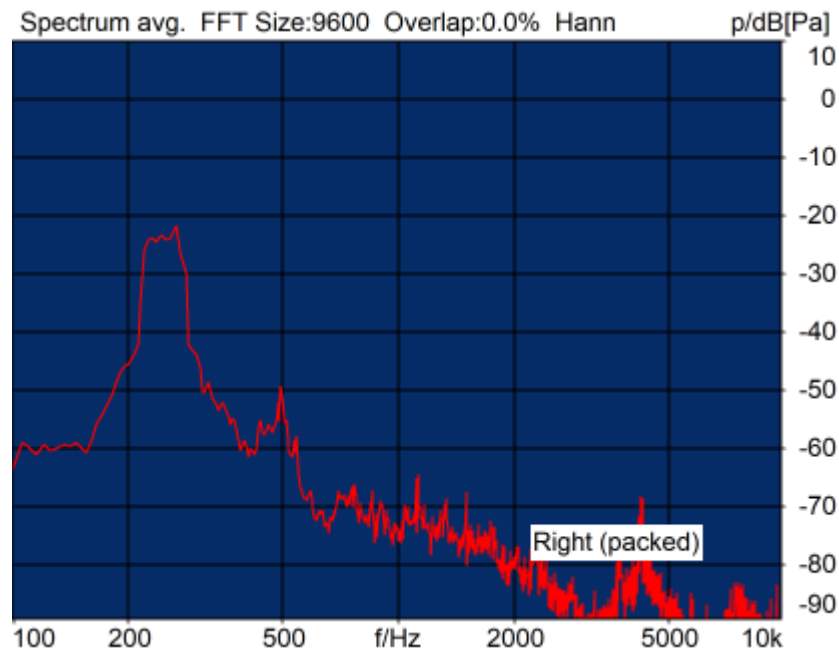
Channel	Speech level	Activity	Corrected speech level	
Right	82.01 dB[SPL]	88.42%	12.01 dB[SPL]	Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1

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



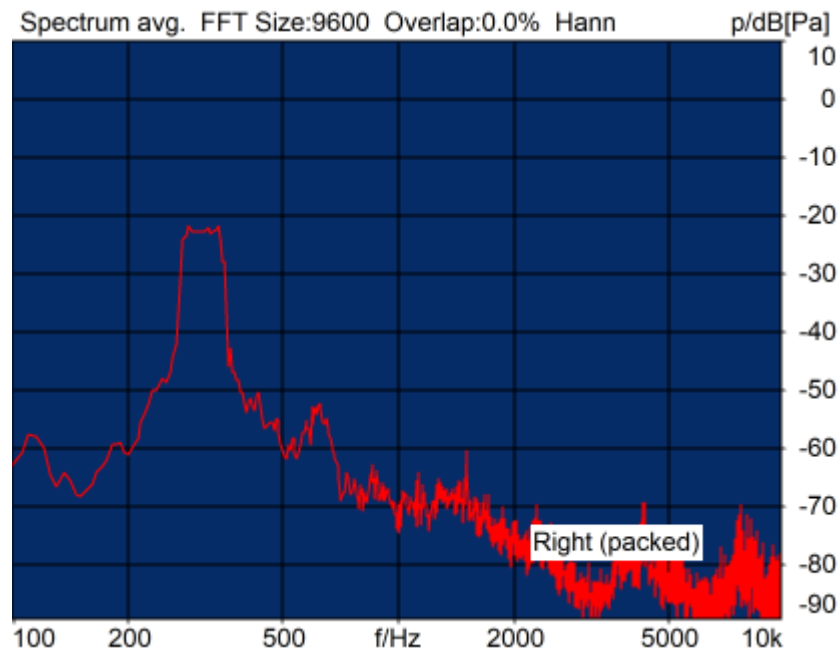
Distortion (Noise) Right (packed): 28.27 dB (3.86%) Ok

Ok

12/12/2025 11:11 AM ACQUA 6.1.110

5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 27.79 dB (4.08%) Ok

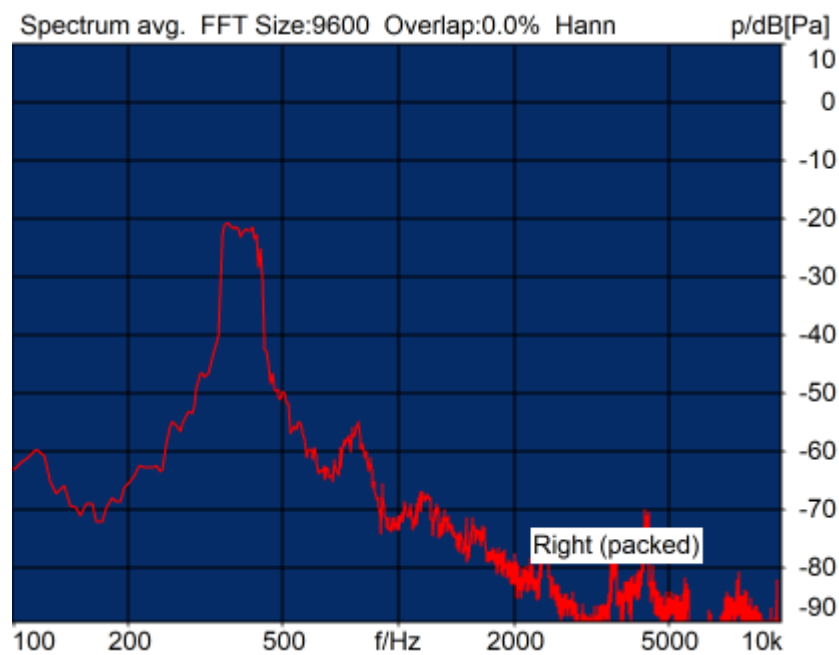
Ok

12/12/2025 11:12 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 29.62 dB (3.31%) Ok

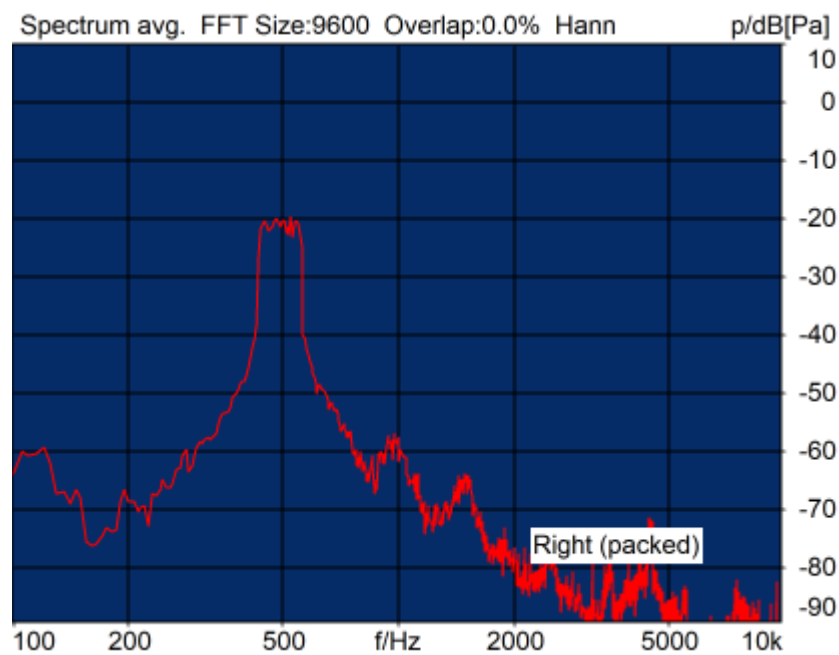
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 28.72 dB (3.67%) Ok

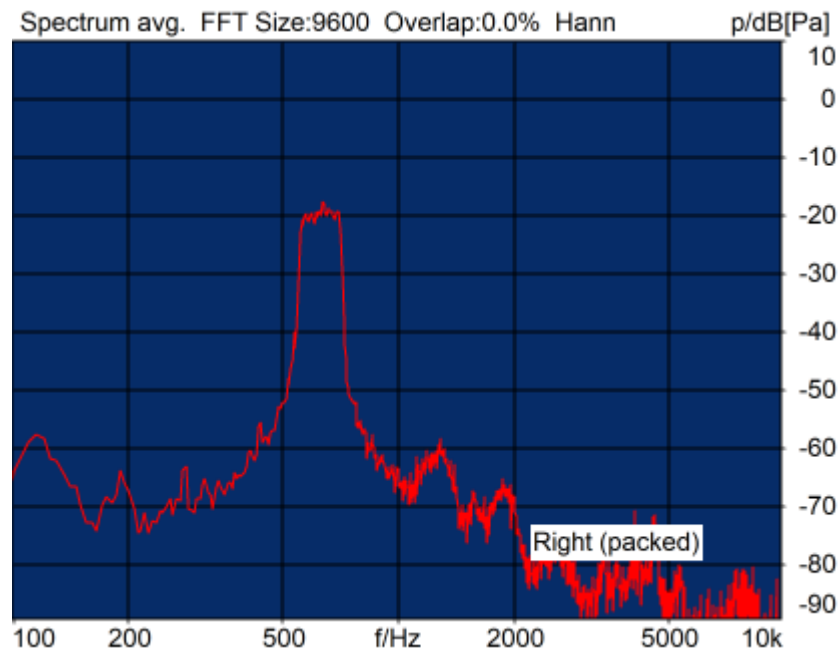
Ok

12/12/2025 11:13 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 32.88 dB (2.27%) Ok

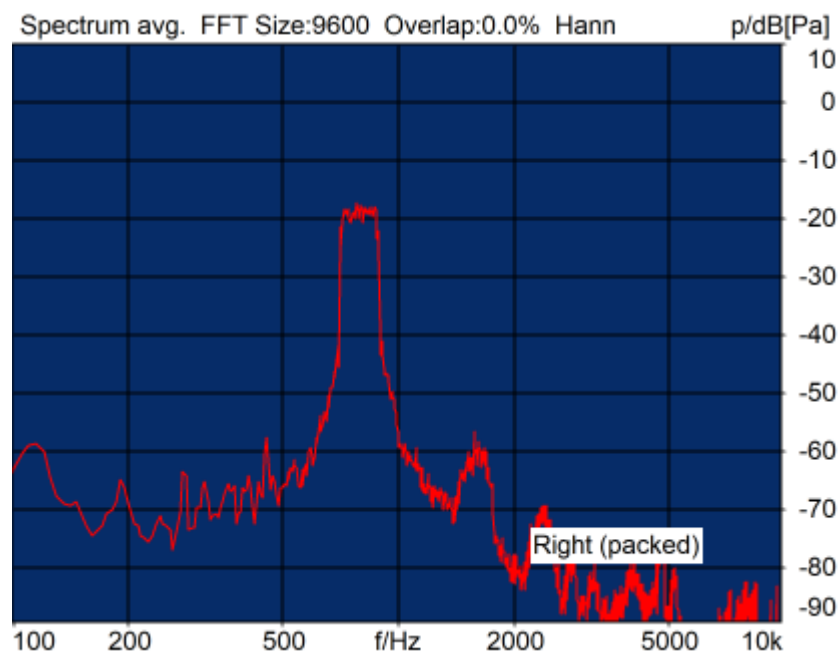
Ok

12/12/2025 11:13 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 32.18 dB (2.46%) Ok

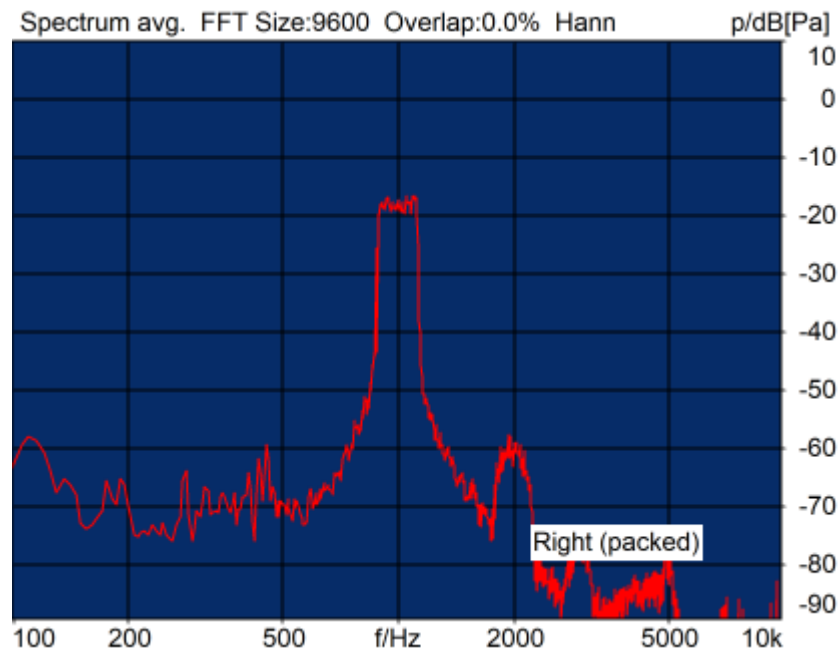
Ok

12/12/2025 11:13 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 34.08 dB (1.98%) Ok

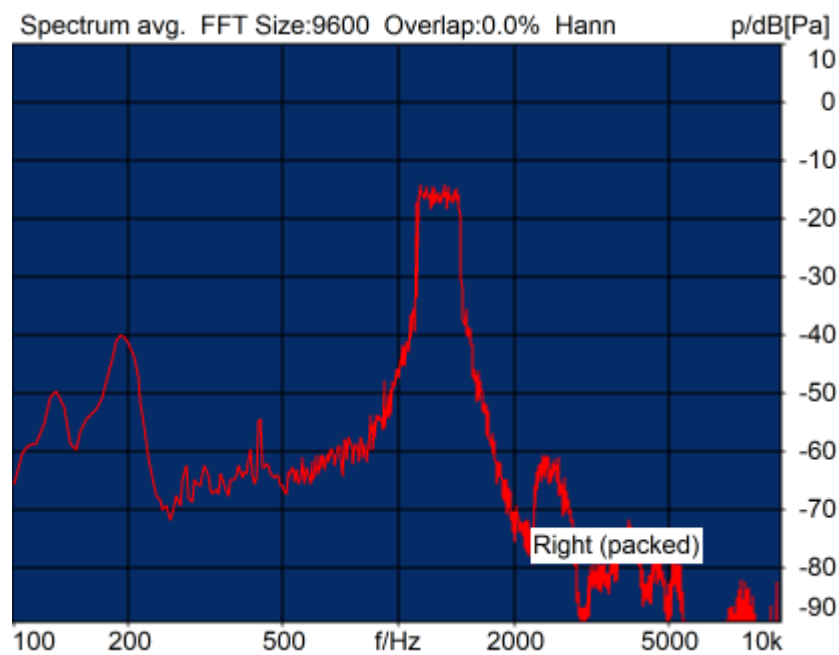
Ok

12/12/2025 11:14 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 23.65 dB (6.57%) Ok

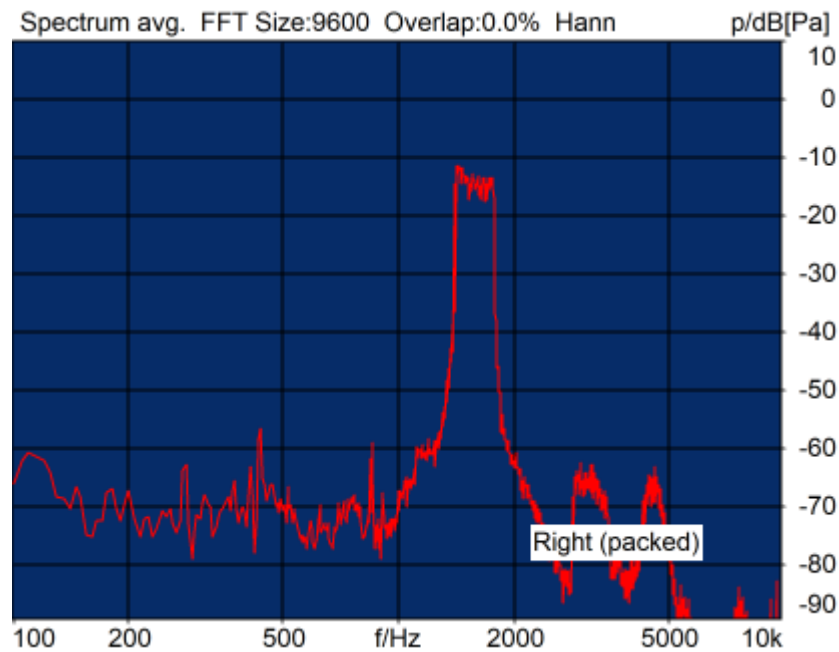
Ok

12/12/2025 11:14 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 38.05 dB (1.25%) Ok

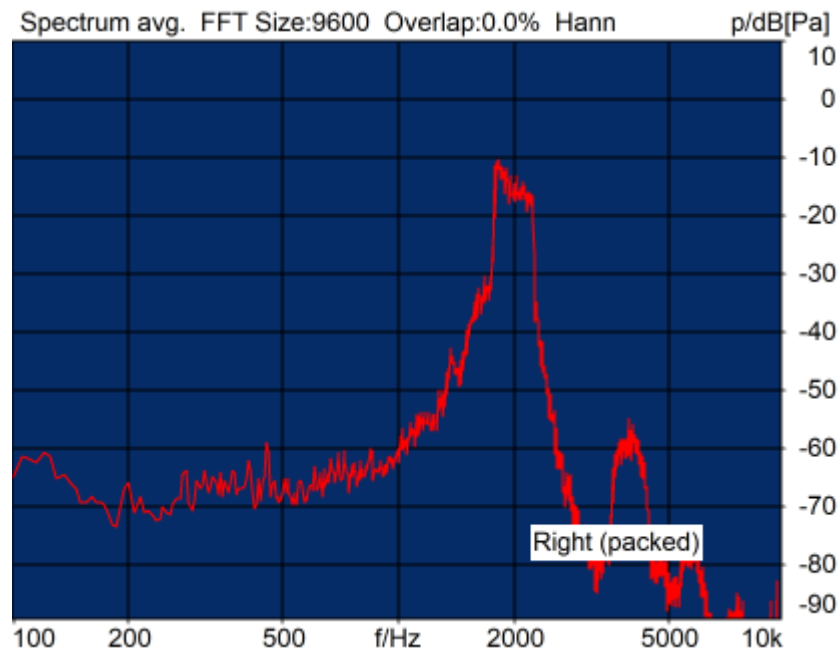
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 21.13 dB (8.79%) Ok

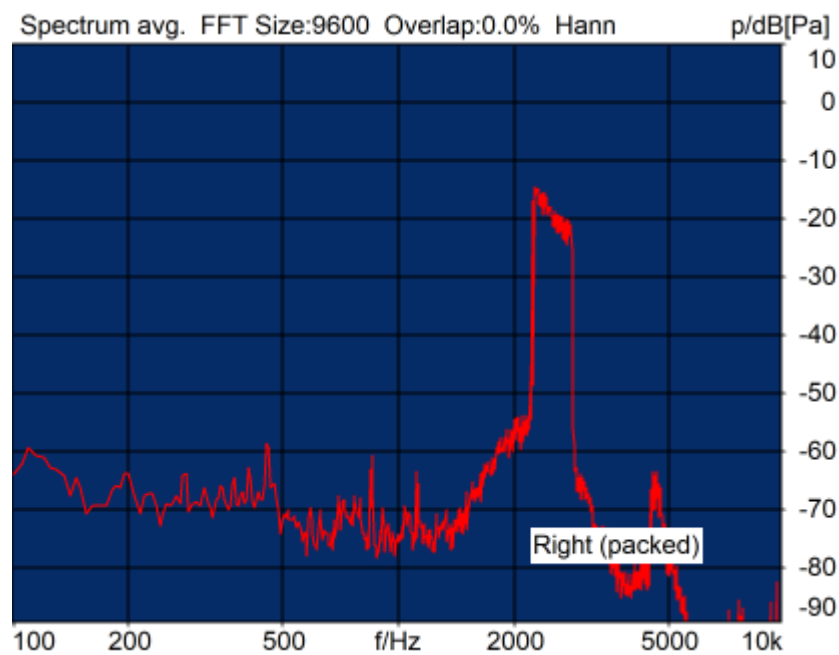
Ok

12/12/2025 11:15 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 37.35 dB (1.36%) Ok

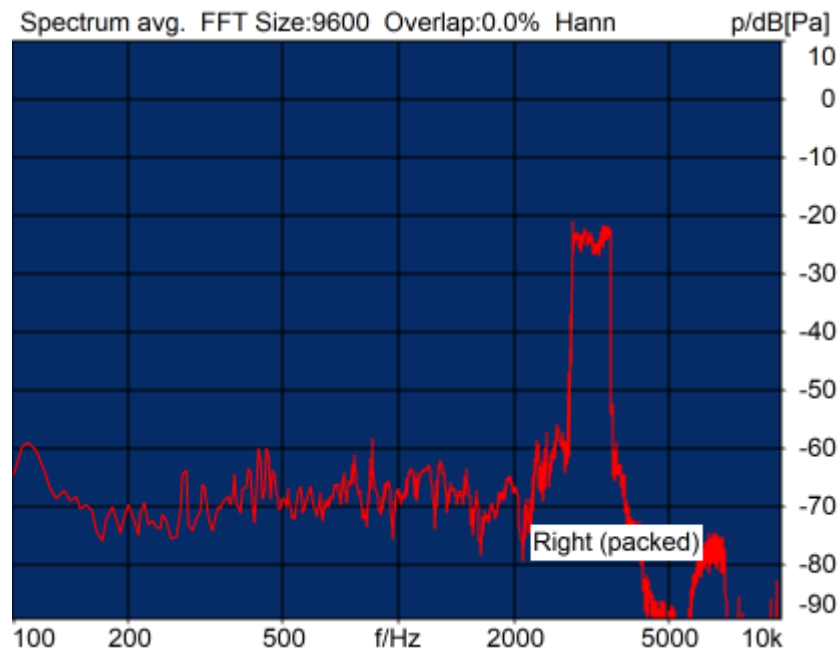
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 33.39 dB (2.14%) Ok

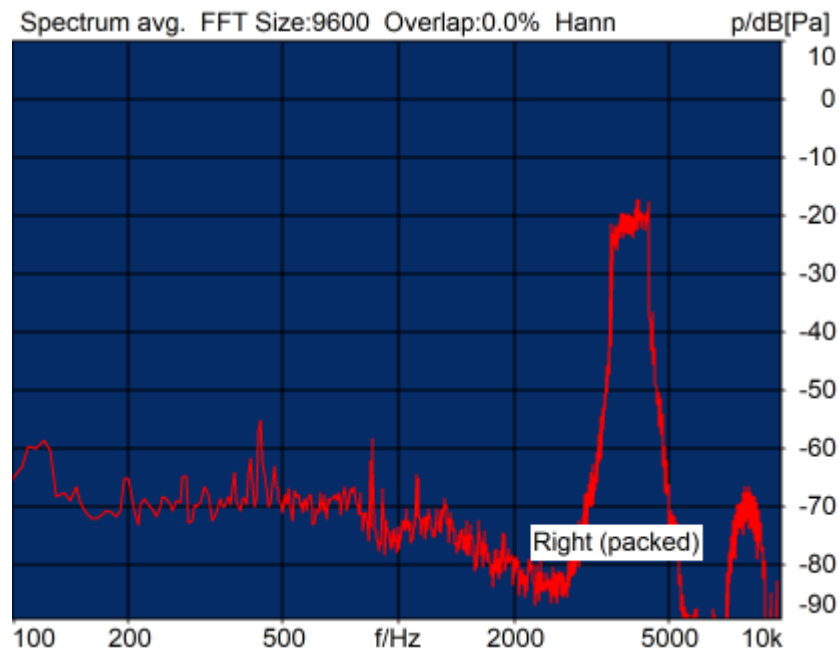
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 26.66 dB (4.65%) Ok

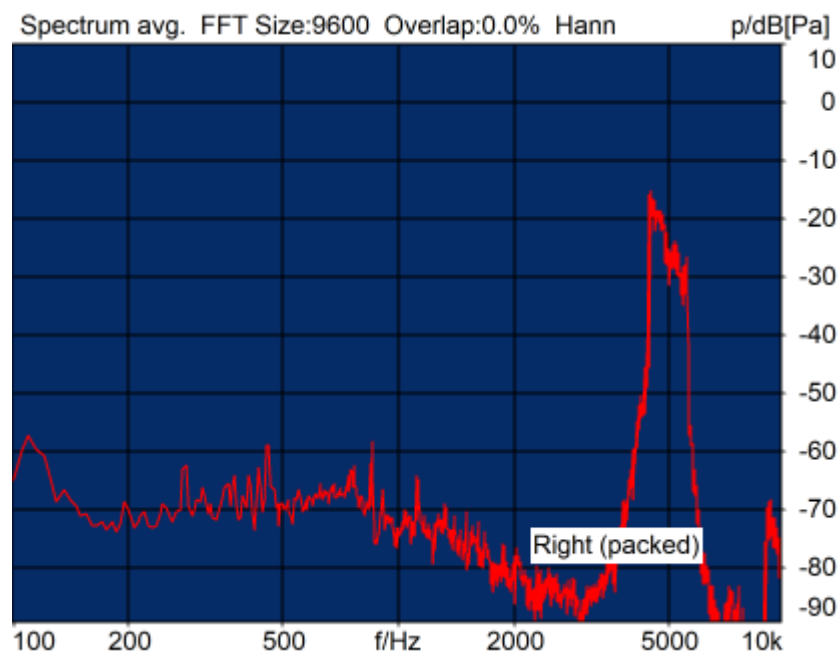
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 33.04 dB (2.23%) Ok

Ok

12/12/2025 11:17 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

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

1

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

Region	Frequency	SDNR
1	250Hz	28.27 dB
2	315Hz	27.79 dB
3	400Hz	29.62 dB
4	500Hz	28.72 dB
5	630Hz	32.88 dB
6	800Hz	32.18 dB
7	1000Hz	34.08 dB
8	1250Hz	23.65 dB
9	1600Hz	38.05 dB
10	2000Hz	21.13 dB
11	2500Hz	37.35 dB
12	3150Hz	33.39 dB
13	4000Hz	26.66 dB
14	5000Hz	33.04 dB

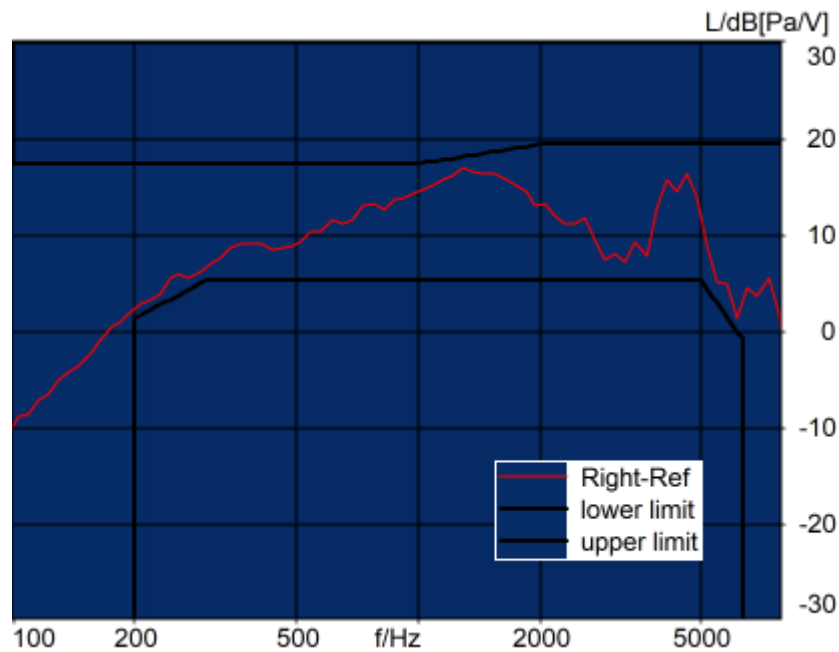
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.13dB at 2000Hz.

12/12/2025 11:18 AM ACQUA

5.3 Frequency Response 8N FF, Index: 1

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



Absolute minimal distance

1.09 dB at 1285.9 Hz Ok

Ok

12/12/2025 11:18 AM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

Measurement Protocol

Measurement Object	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
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Project	Stratus C9
Report Generation Date	12/17/2025 10:09 AM
Responsible Person	HP

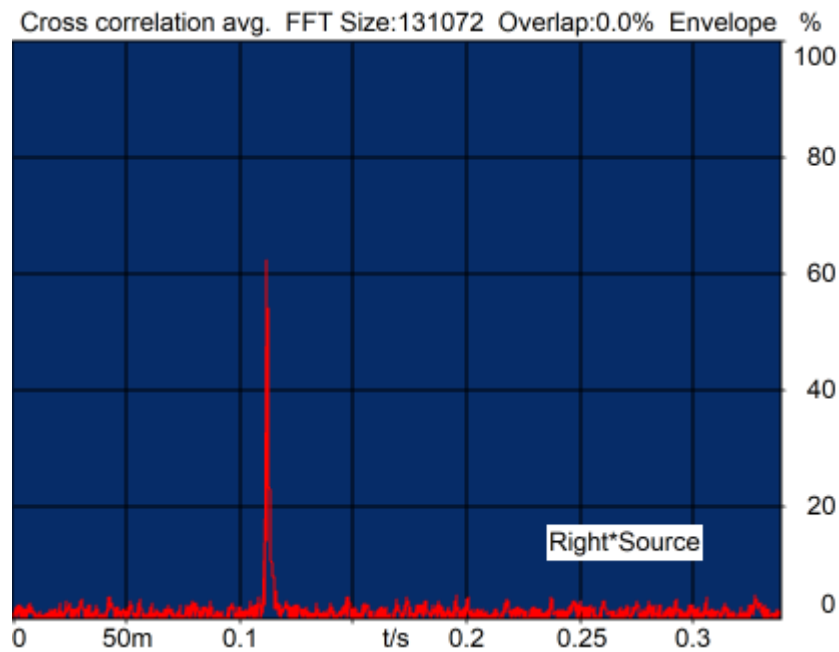
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	112.7	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.1a Receive Volume Control Performance 8N NB	Ok	Corrected Speech Level [dB[SPL]]	12.33	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.98	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.83	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.23	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.47	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.31	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.13	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.28	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.67	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.40	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.09	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	24.13	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 2177.4 Hz	3.60	LTE Band 71_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



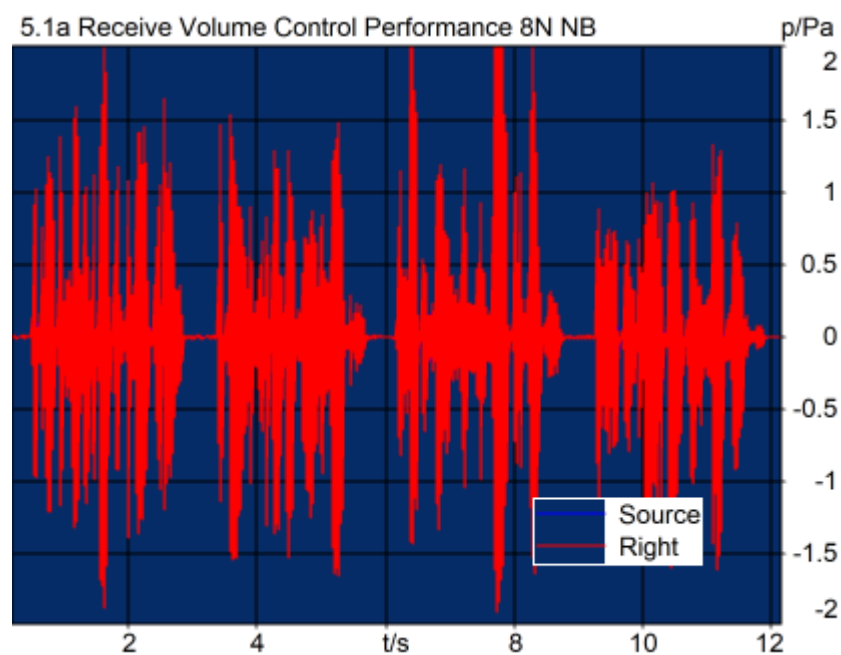
Channel	Delay	Correlation
Right*Source	112.7 ms	62.30 %

12/12/2025 2:59 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

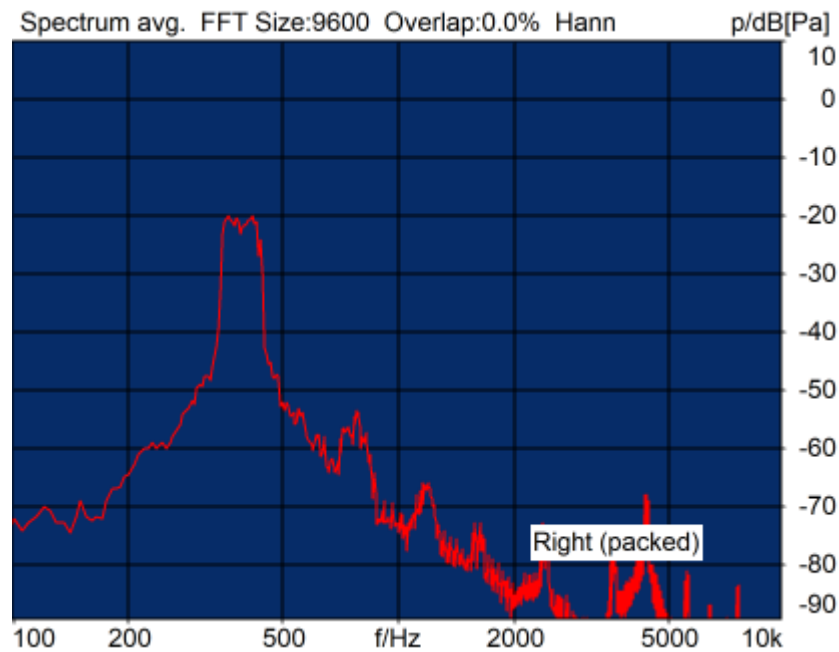
Channel	Speech level	Activity	Corrected speech level	
Right	82.33 dB[SPL]	83.31%	12.33 dB[SPL]	Ok

Ok

12/15/2025 6:20 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): 29.98 dB (3.17%) Ok

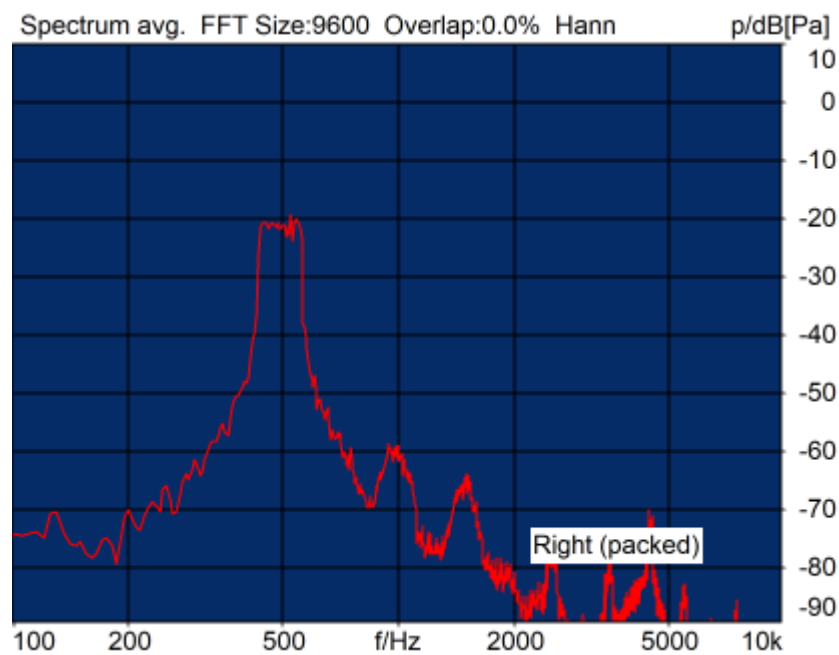
Ok

12/12/2025 2:59 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): 30.83 dB (2.88%) Ok

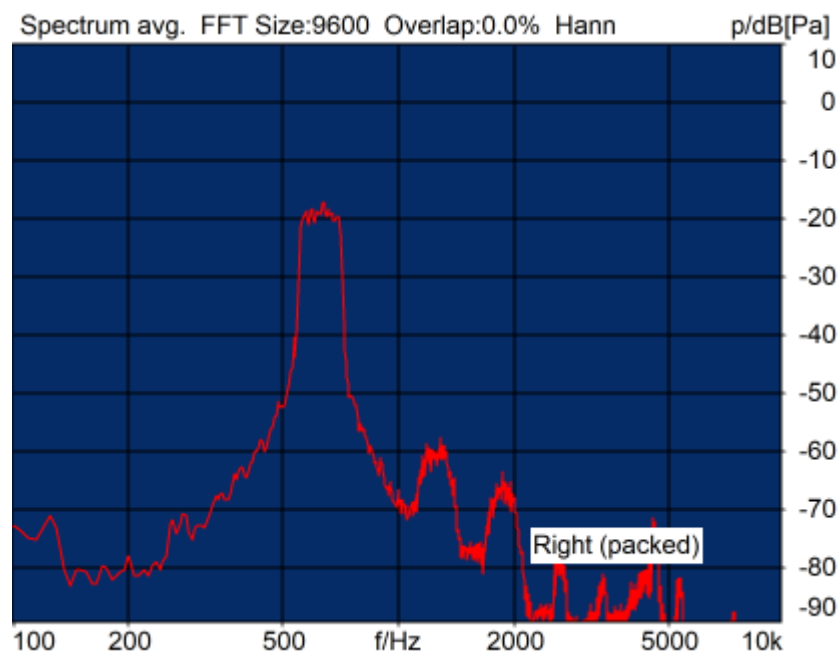
Ok

12/12/2025 3:00 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): 33.23 dB (2.18%) Ok

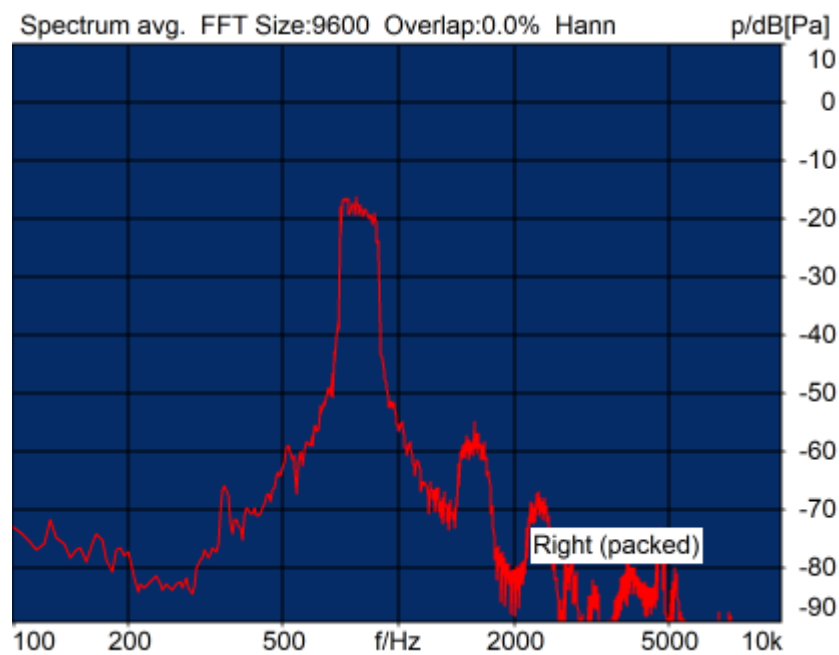
Ok

12/12/2025 3:00 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): 32.47 dB (2.38%) Ok

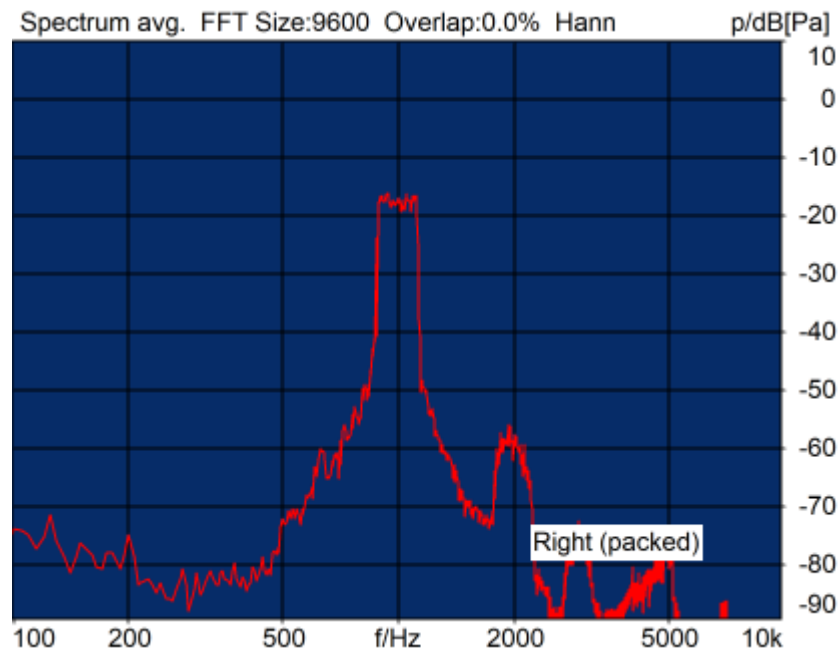
Ok

12/12/2025 3:00 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): 33.31 dB (2.16%) Ok

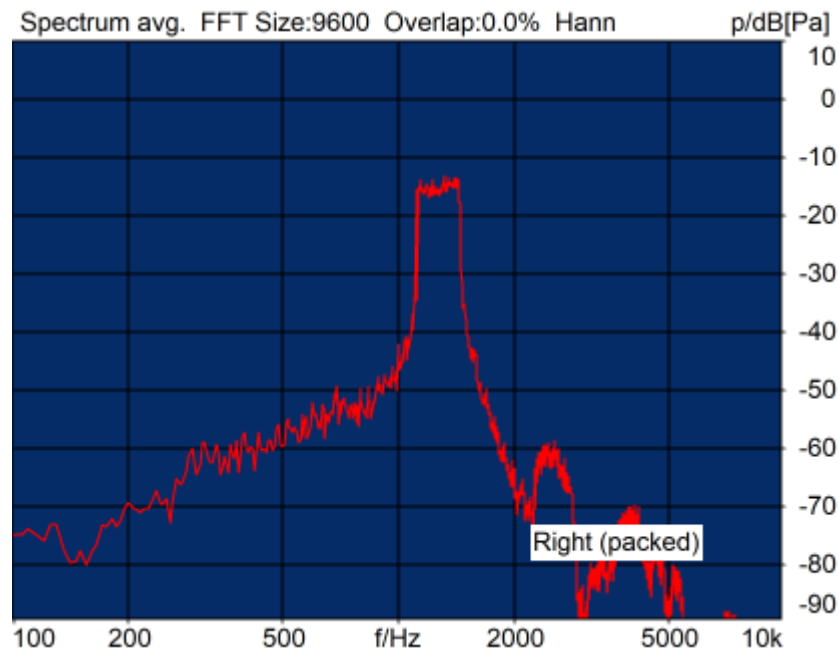
Ok

12/12/2025 3:01 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): 24.13 dB (6.22%) Ok

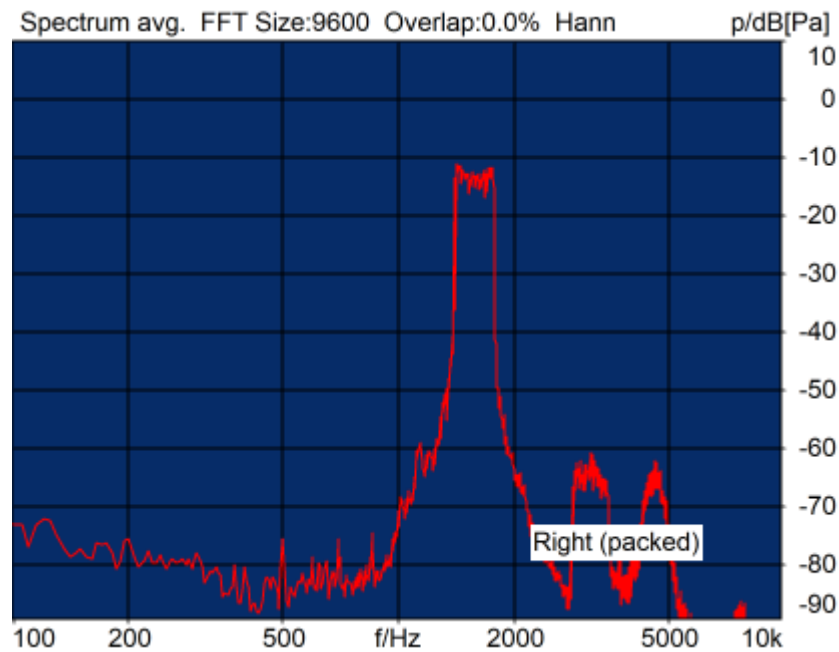
Ok

12/12/2025 3:01 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): 39.28 dB (1.09%) Ok

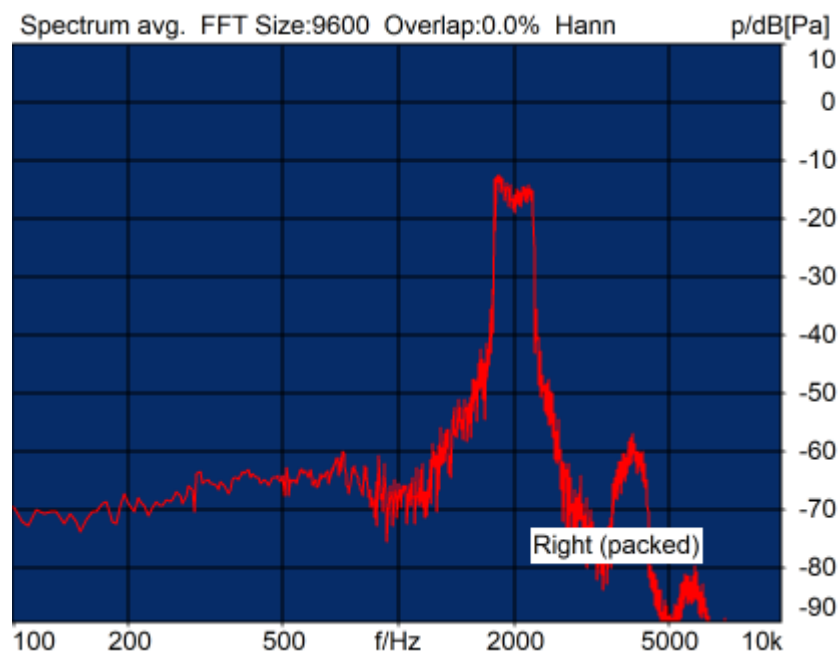
Ok

12/12/2025 3:02 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): 28.67 dB (3.69%) Ok

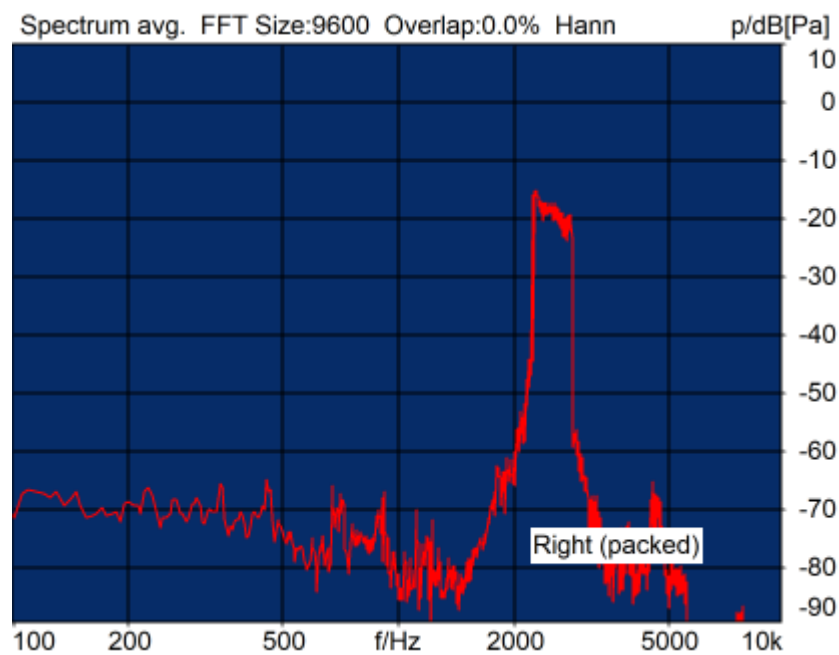
Ok

12/12/2025 3:02 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): 35.40 dB (1.70%) Ok

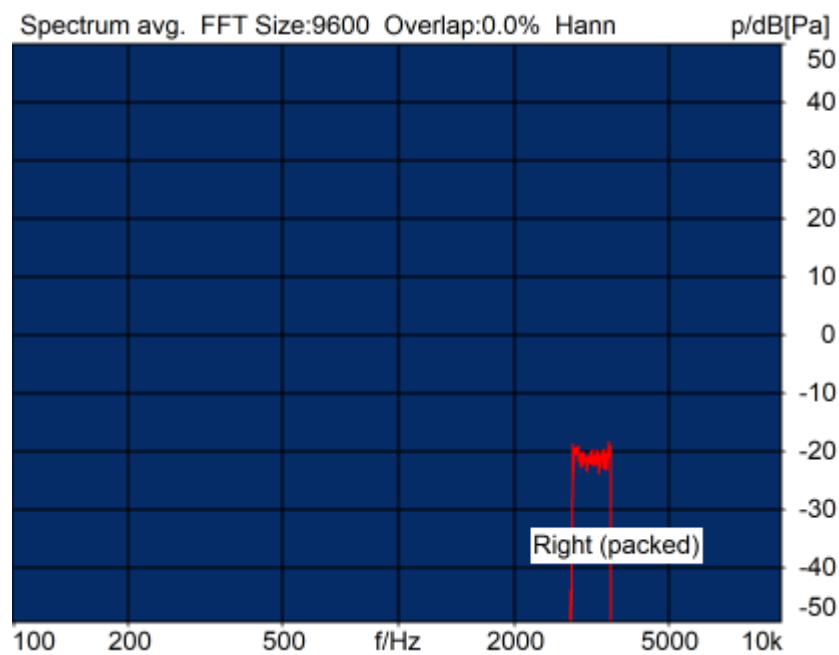
Ok

12/12/2025 3:03 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): 37.09 dB (1.40%) Ok

Ok

12/12/2025 3:03 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

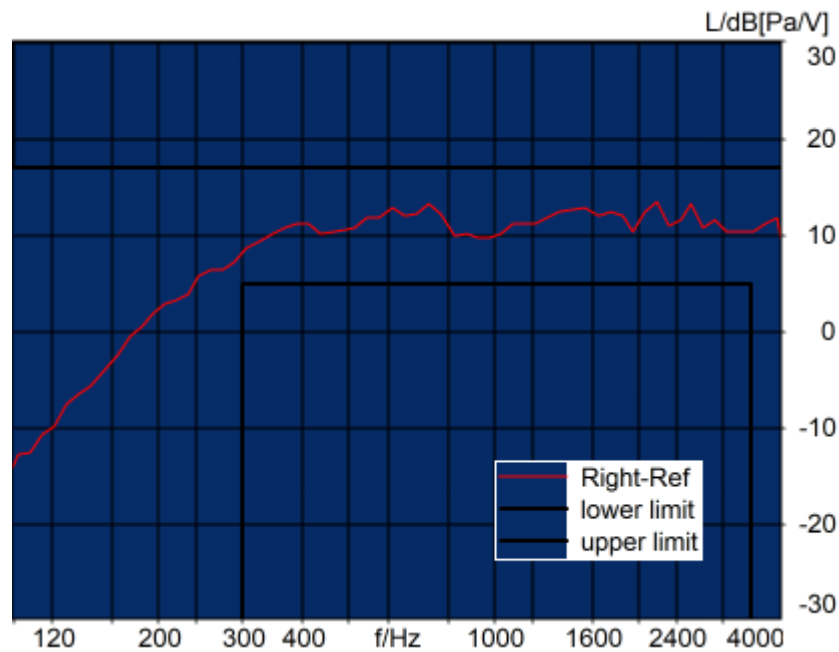
Region	Frequency	SDNR
1	400Hz	29.98 dB
2	500Hz	30.83 dB
3	630Hz	33.23 dB
4	800Hz	32.47 dB
5	1000Hz	33.31 dB
6	1250Hz	24.13 dB
7	1600Hz	39.28 dB
8	2000Hz	28.67 dB
9	2500Hz	35.40 dB
10	3150Hz	37.09 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 24.13dB at 1250Hz.

12/12/2025 3:04 PM ACQUA

5.3 Frequency Response 8N FF, Index: 1

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



Absolute minimal distance

3.60 dB at 2177.4 Hz Ok

Ok

12/12/2025 3:05 PM ACQUA 6.1.110

Measurement Protocol

Measurement Object	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
--------------------	--

Project	C9
Report Generation Date	1/26/2026 8:39 AM
Responsible Person	HP

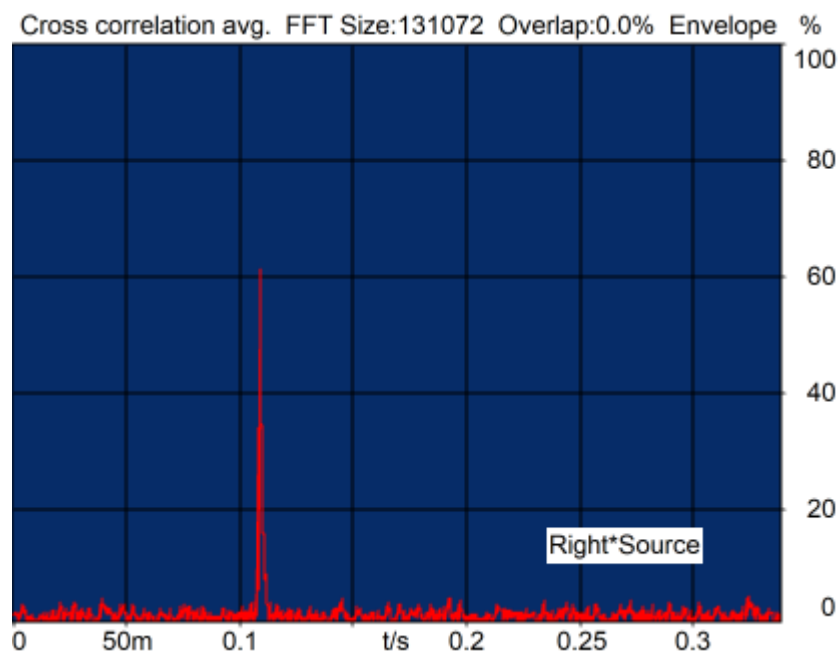
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	109.4	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.1b Receive Volume Control Performance 2N NB	Ok	Corrected Speech Level [dB[SPL]]	10.96	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.11	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.41	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.06	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.82	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.79	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.33	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.22	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.73	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.42	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.52	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 400Hz)	24.11	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.75	LTE Band 2_EVS NB 24.4Kbps_2N_Max-1-Sample 2

Overall Receive Delay NB, Index: 1	5
5.1b Receive Volume Control Performance 2N 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 2N FF HANB, Index: 1	18

Overall Receive Delay NB, Index: 1

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



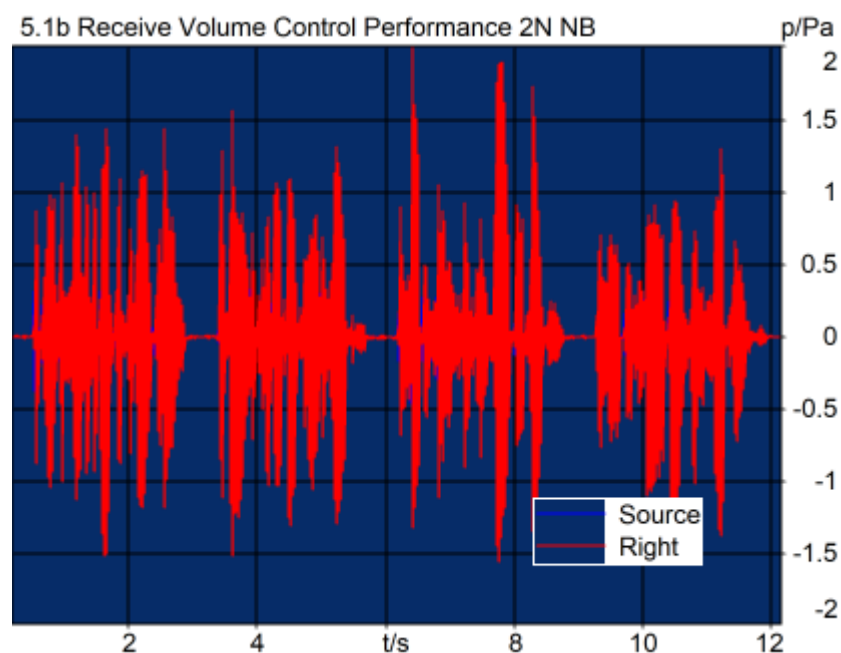
Channel	Delay	Correlation
Right*Source	109.4 ms	61.46 %

12/18/2025 3:32 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.1b Receive Volume Control Performance 2N NB, Index: 1

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



Correction

X-70

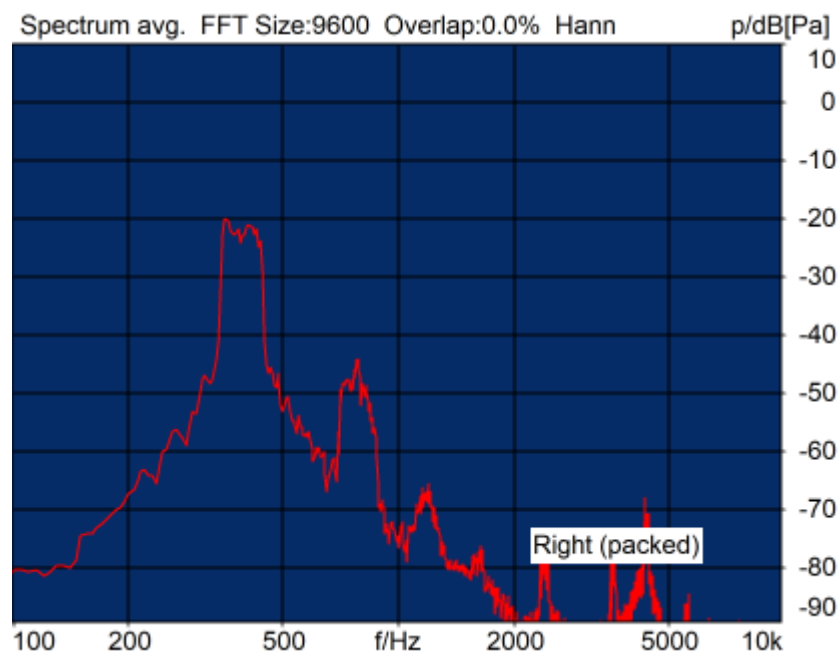
Channel	Speech level	Activity	Corrected speech level	
Right	80.96 dB[SPL]	81.46%	10.96 dB[SPL]	Ok

Ok

12/18/2025 3:32 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 2N



Distortion (Noise) Right (packed): 24.11 dB (6.23%) Ok

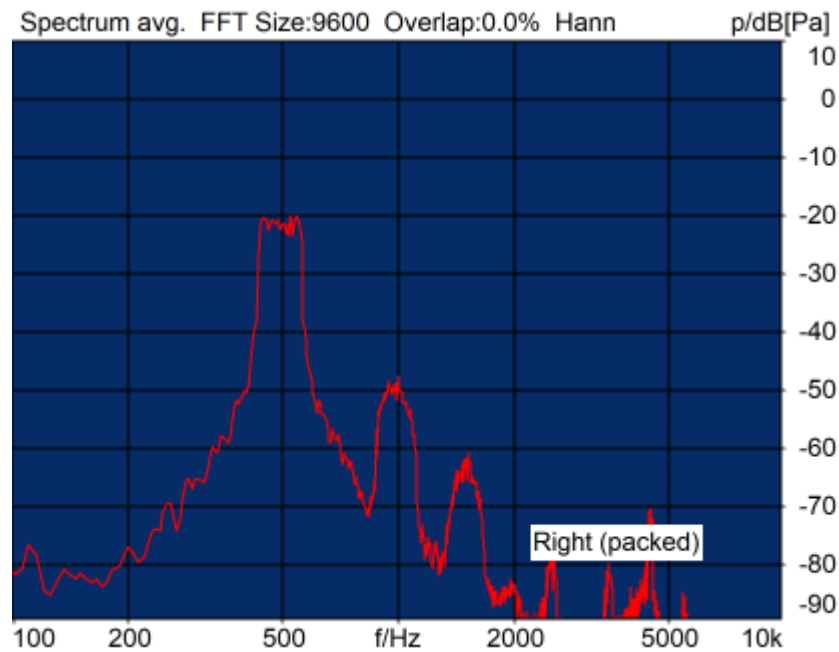
Ok

12/18/2025 3:33 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 2N



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

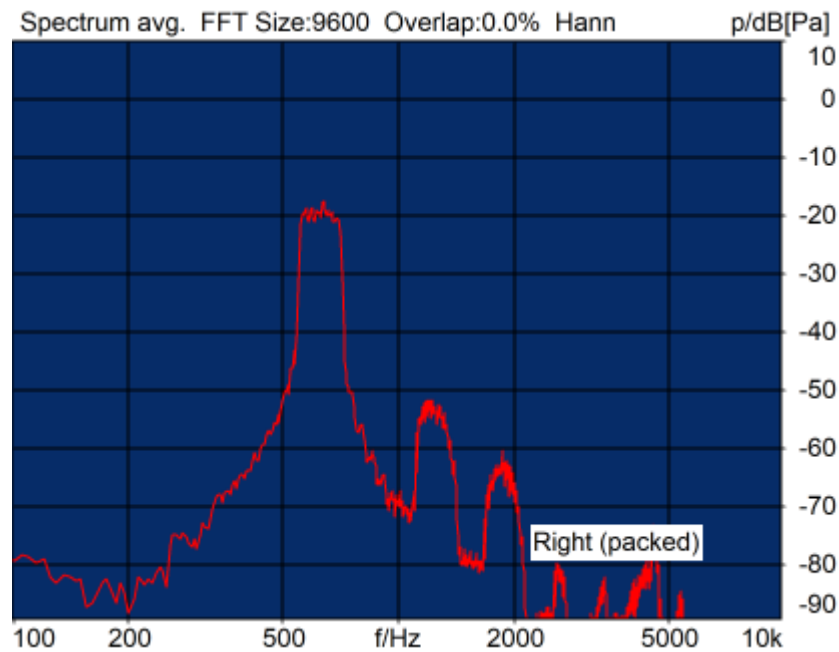
Ok

12/18/2025 3:33 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 2N



Distortion (Noise) Right (packed): 30.06 dB (3.14%) Ok

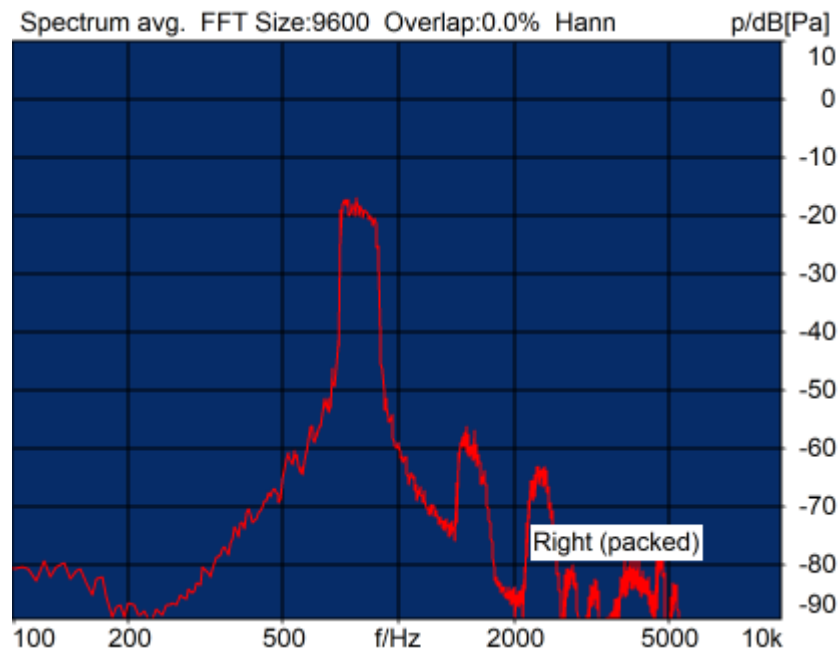
Ok

12/18/2025 3:34 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 2N



Distortion (Noise) Right (packed): 33.82 dB (2.04%) Ok

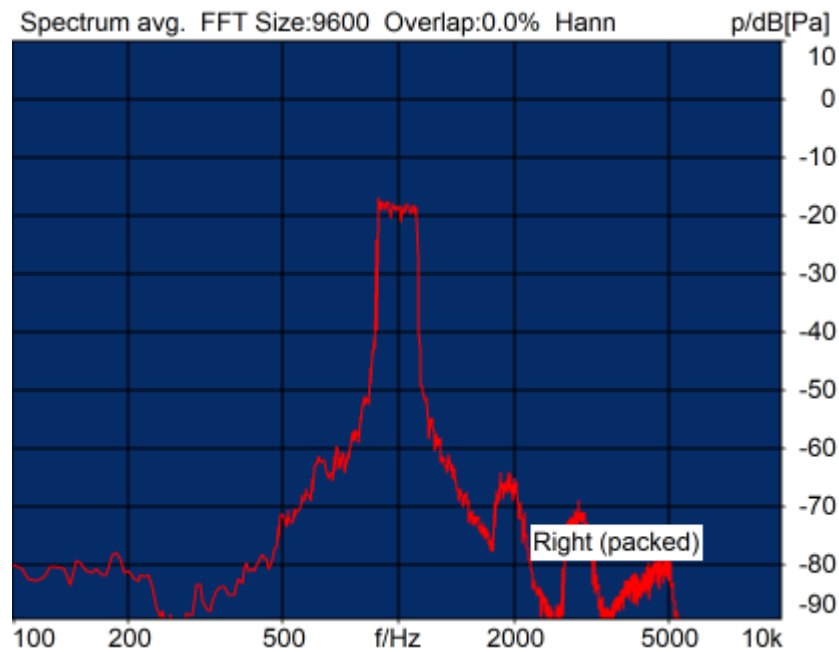
Ok

12/18/2025 3:34 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 2N



Distortion (Noise) Right (packed): 34.79 dB (1.82%) Ok

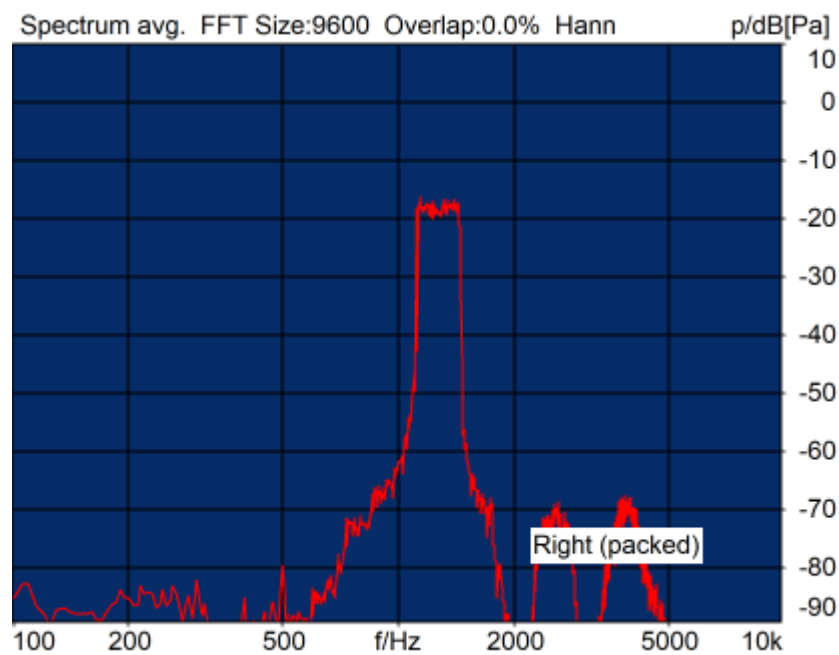
Ok

12/18/2025 3:34 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 2N



Distortion (Noise) Right (packed): 32.33 dB (2.42%) Ok

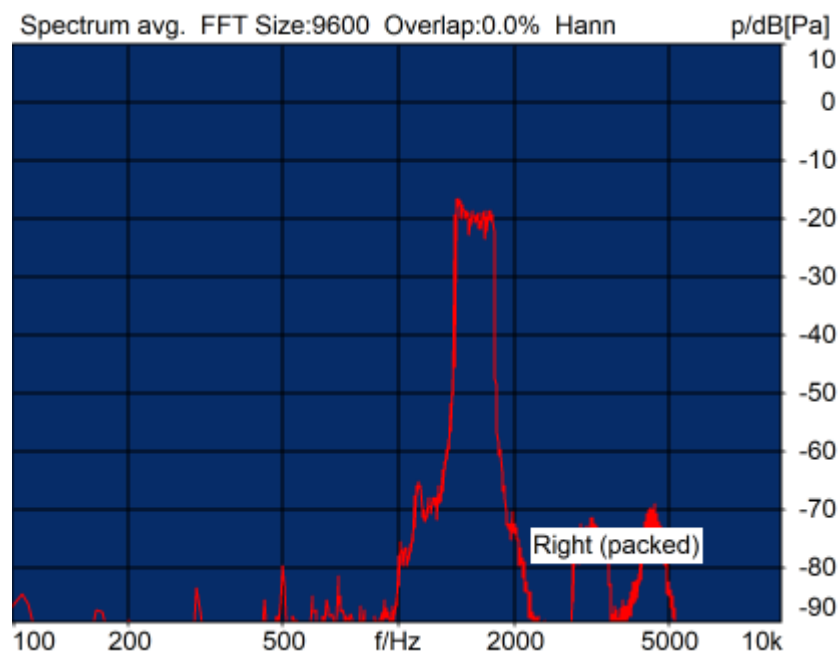
Ok

12/18/2025 3:35 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 2N



Distortion (Noise) Right (packed): 42.22 dB (0.77%) Ok

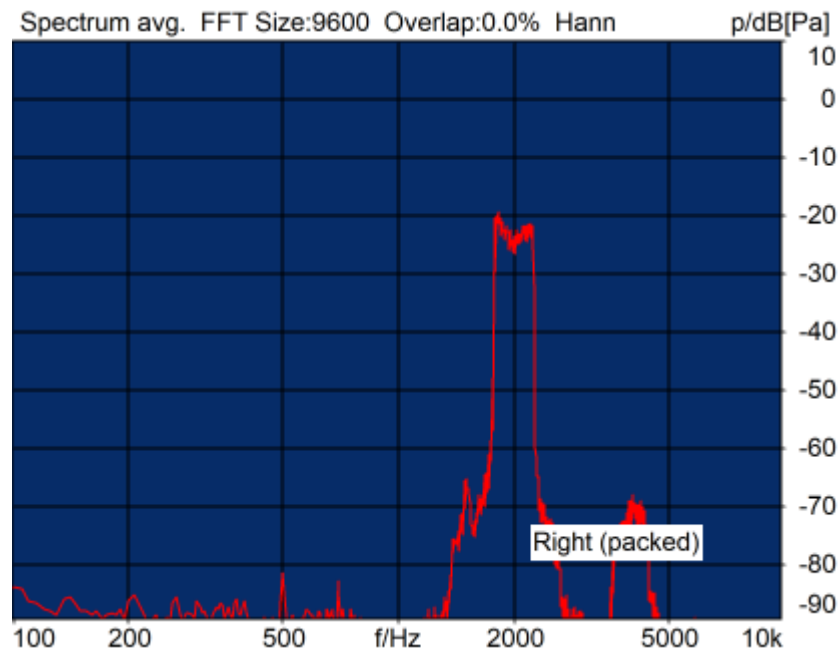
Ok

12/18/2025 3:35 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 2N



Distortion (Noise) Right (packed): 41.73 dB (0.82%) Ok

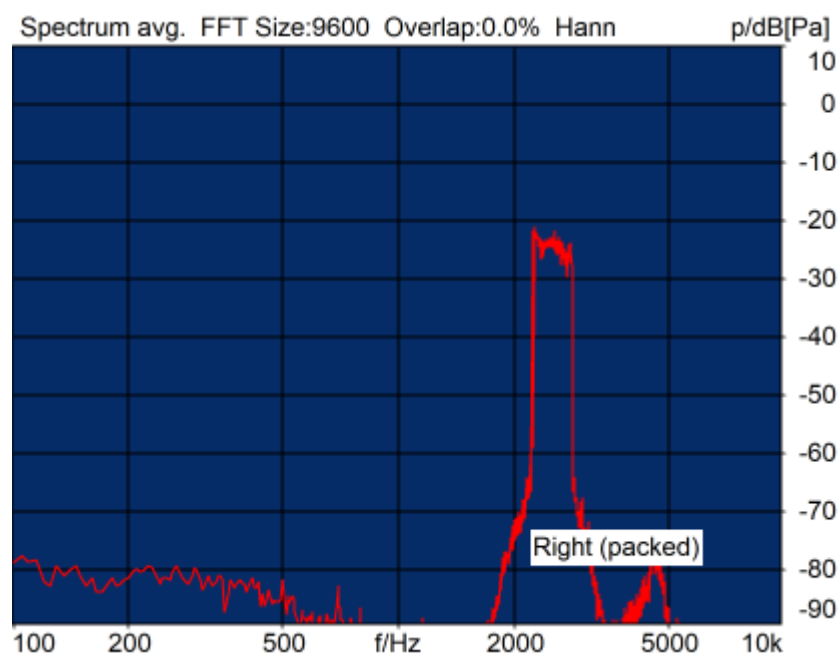
Ok

12/18/2025 3:36 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 2N



Distortion (Noise) Right (packed): 44.42 dB (0.60%) Ok

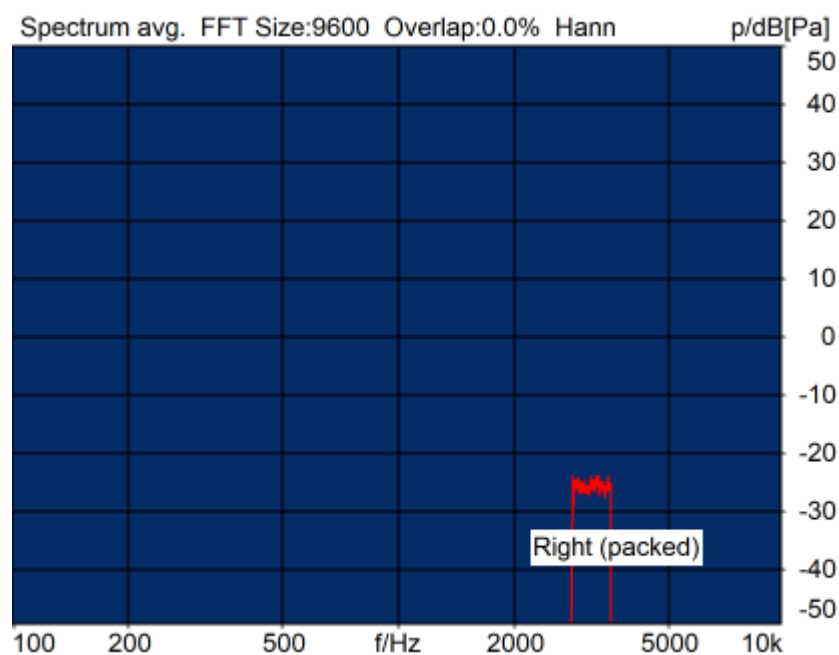
Ok

12/18/2025 3:36 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 2N



Distortion (Noise) Right (packed): 35.52 dB (1.67%) Ok

Ok

12/18/2025 3:37 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

Report - Receive Distortion and Noise (Conversational Gain), Index: 1

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

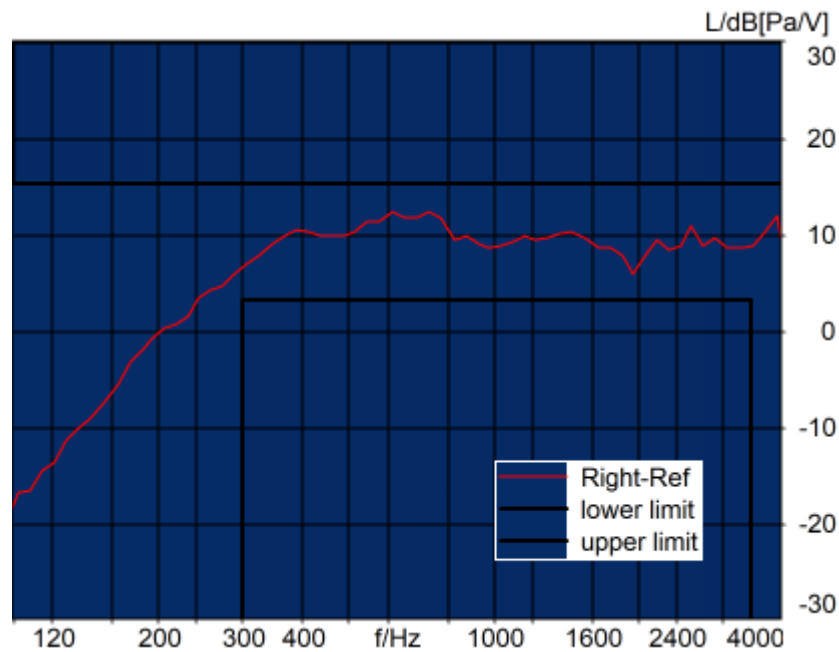
Region	Frequency	SDNR
1	400Hz	24.11 dB
2	500Hz	26.41 dB
3	630Hz	30.06 dB
4	800Hz	33.82 dB
5	1000Hz	34.79 dB
6	1250Hz	32.33 dB
7	1600Hz	42.22 dB
8	2000Hz	41.73 dB
9	2500Hz	44.42 dB
10	3150Hz	35.52 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 24.11dB at 400Hz.

12/18/2025 3:38 PM ACQUA

5.3 Frequency Response 2N FF HANB, Index: 1

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



Absolute minimal distance
2.75 dB at 611.7 Hz Ok

Ok

12/18/2025 3:38 PM ACQUA 6.1.110
Unmodified HEAD acoustics Measurement Descriptor

Measurement Protocol

Measurement Object	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
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Project	C9
Report Generation Date	1/26/2026 8:42 AM
Responsible Person	HP

Status Overview

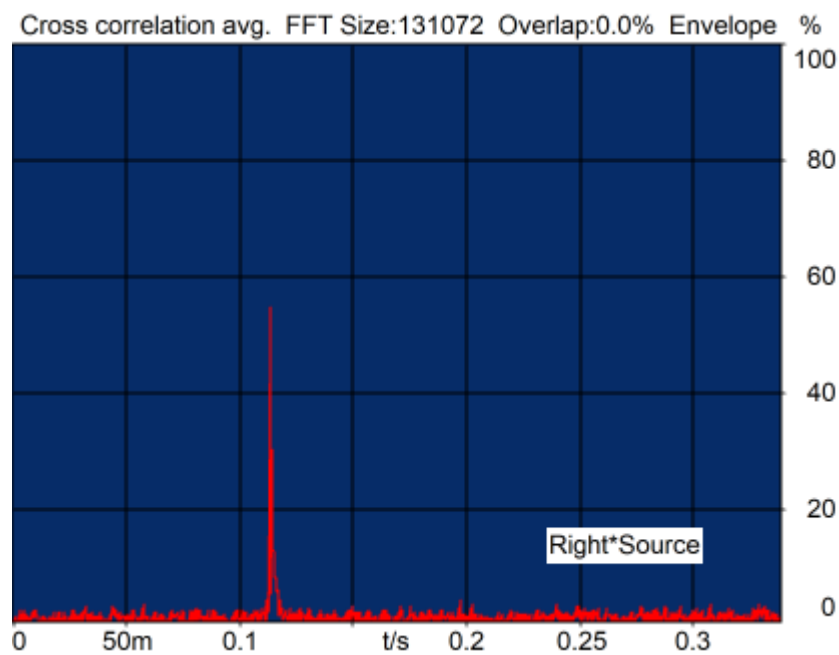
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	114.3	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.1b Receive Volume Control Performance 2N WB	Ok	Corrected Speech Level [dB[SPL]]	9.92	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.91	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.48	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.63	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.87	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.64	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.45	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.72	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.76	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.36	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.89	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.22	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.00	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.77	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.84	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2
Report - Receive Distortion and	Ok	Minimum SDNR [dB],	21.91	LTE Band 41_EVS WB

Noise (Conversational Gain)		(occured at 250Hz)		128Kbps_2N_Max-1-Sample 2
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.32	LTE Band 41_EVS WB 128Kbps_2N_Max-1-Sample 2

Overall Receive Delay WB, Index: 1	6
5.1b Receive Volume Control Performance 2N WB, Index: 1	7
5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1	8
5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1	9
5.2 RCV Distortion and Noise - 400 Hz WB, Index: 1	10
5.2 RCV Distortion and Noise - 500 Hz WB, Index: 1	11
5.2 RCV Distortion and Noise - 630 Hz WB, Index: 1	12
5.2 RCV Distortion and Noise - 800 Hz WB, Index: 1	13
5.2 RCV Distortion and Noise - 1000 Hz WB, Index: 1	14
5.2 RCV Distortion and Noise - 1250 Hz WB, Index: 1	15
5.2 RCV Distortion and Noise - 1600 Hz WB, Index: 1	16
5.2 RCV Distortion and Noise - 2000 Hz WB, Index: 1	17
5.2 RCV Distortion and Noise - 2500 Hz WB, Index: 1	18
5.2 RCV Distortion and Noise - 3150 Hz WB, Index: 1	19
5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1	20
5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1	21
Report - Receive Distortion and Noise (Conversational Gain), Index: 1	22
5.3 Frequency Response 2N FF, Index: 1	23

Overall Receive Delay WB, Index: 1

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



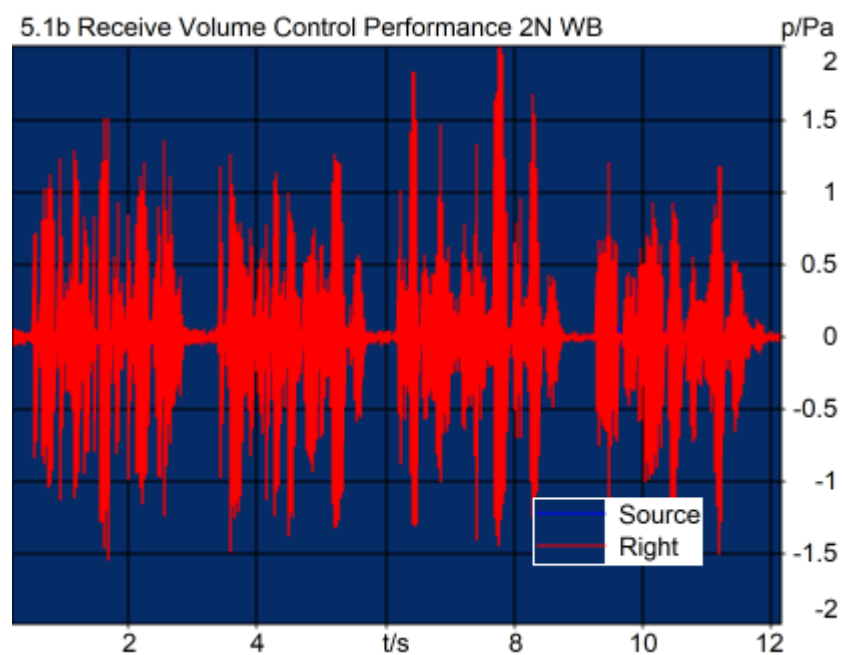
Channel	Delay	Correlation
Right*Source	114.3 ms	54.71 %

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Unmodified HEAD acoustics Measurement Descriptor

5.1b Receive Volume Control Performance 2N WB, Index: 1

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



Correction

X-70

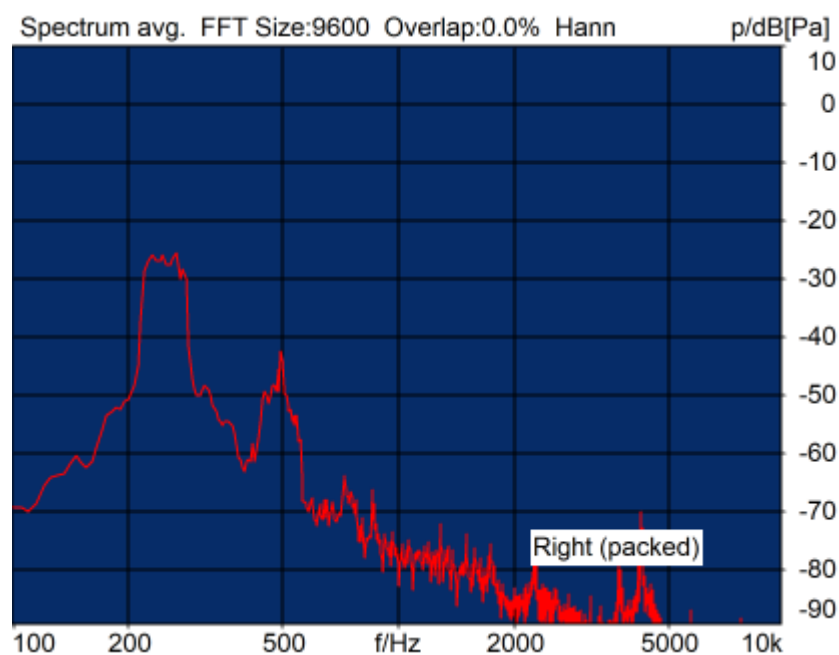
Channel	Speech level	Activity	Corrected speech level	
Right	79.92 dB[SPL]	85.97%	9.92 dB[SPL]	Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 21.91 dB (8.02%) Ok

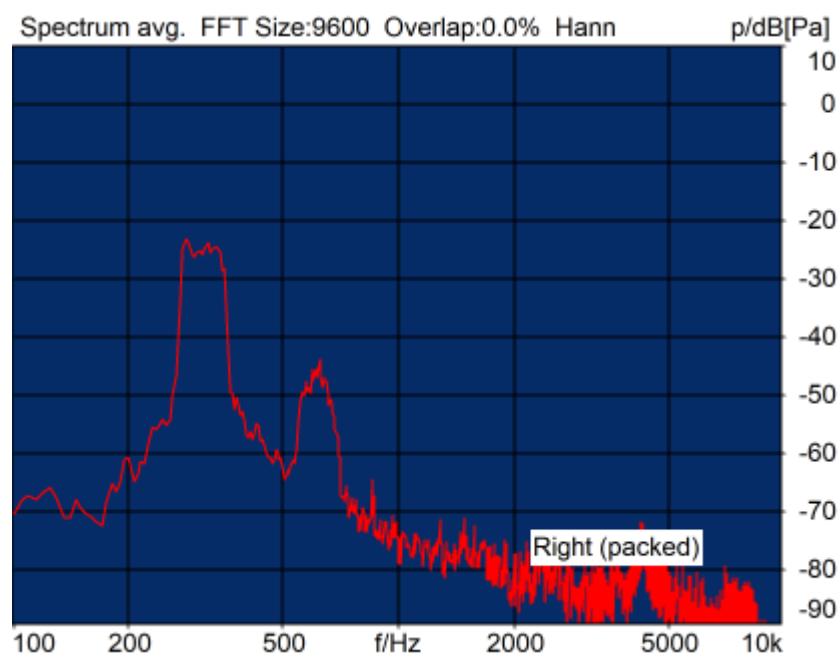
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 22.48 dB (7.52%) Ok

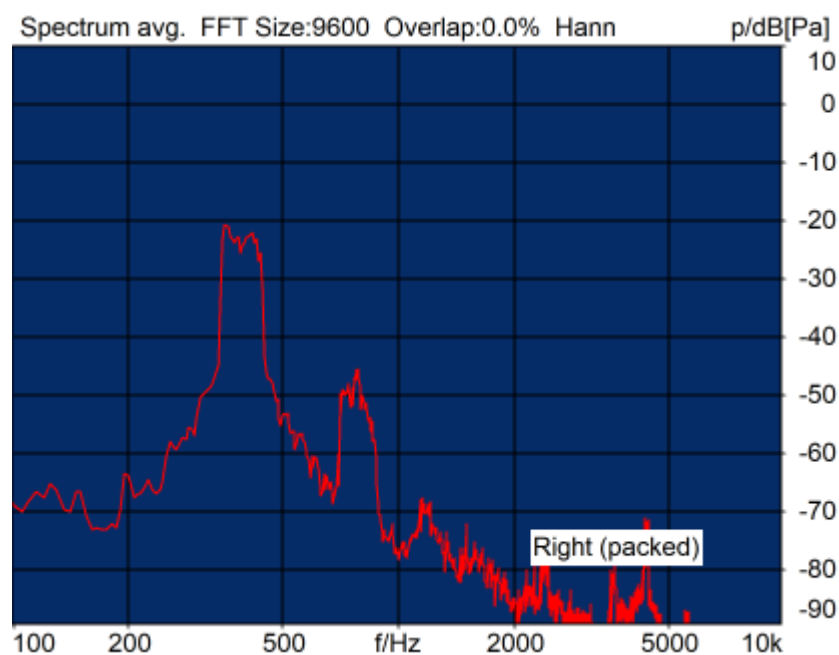
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 24.63 dB (5.87%) Ok

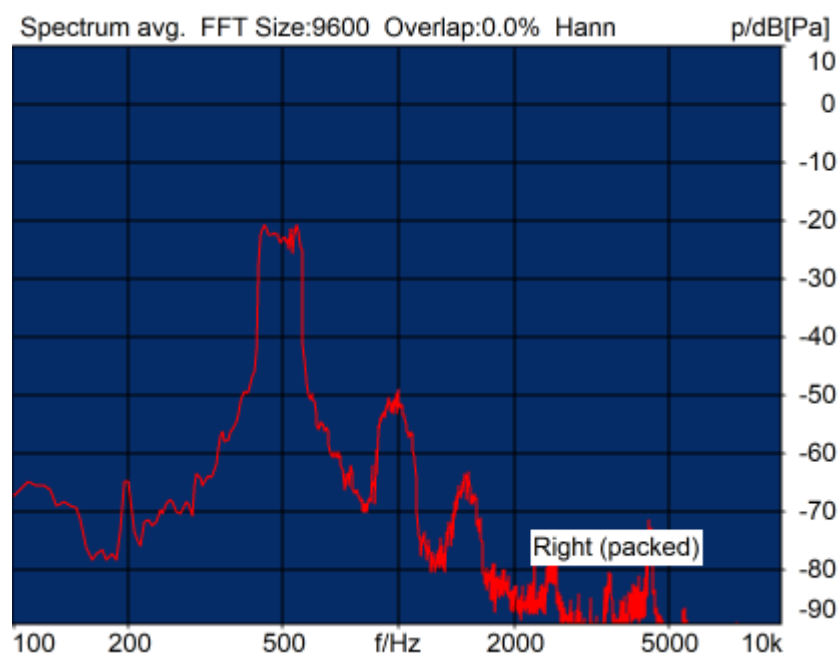
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 26.87 dB (4.53%) Ok

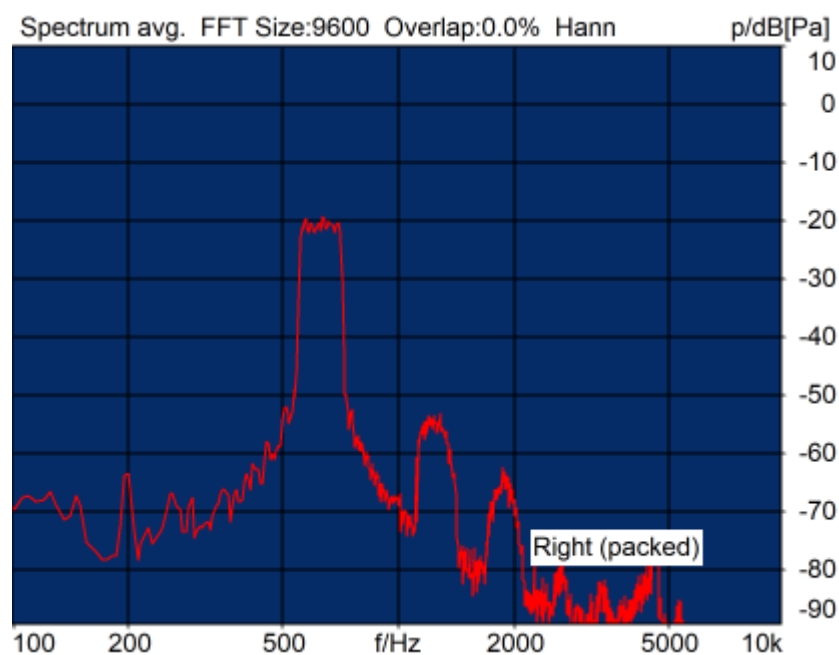
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 30.64 dB (2.94%) Ok

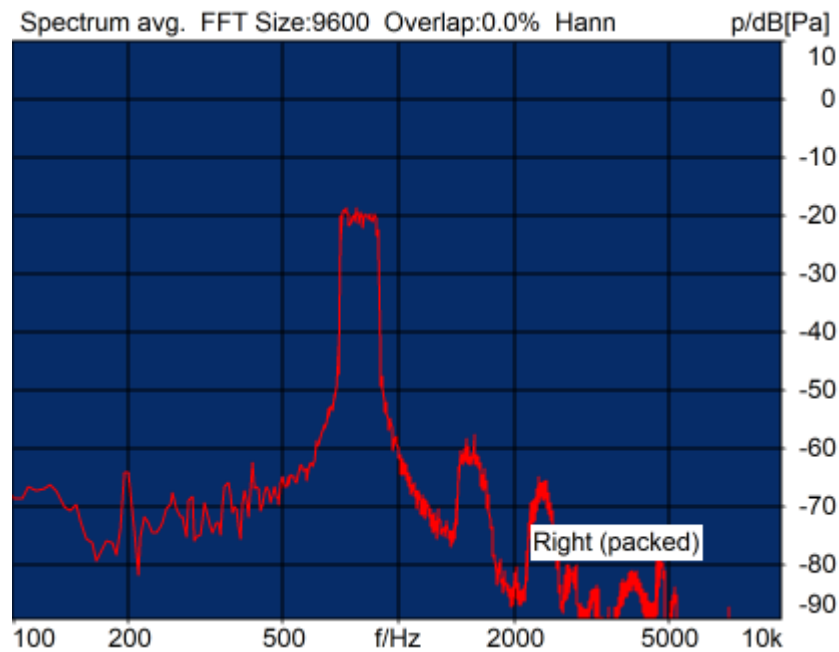
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 34.45 dB (1.89%) Ok

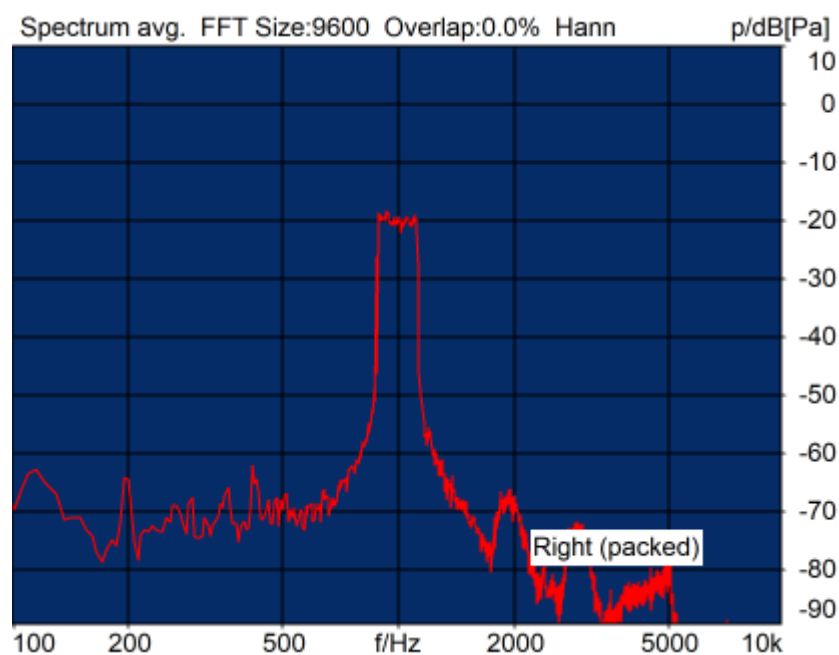
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 36.72 dB (1.46%) Ok

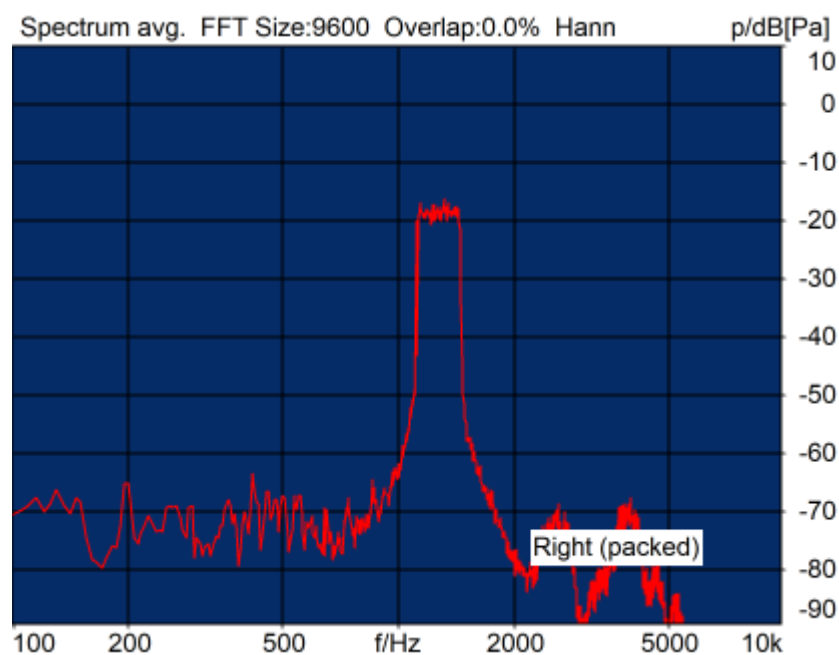
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 31.76 dB (2.58%) Ok

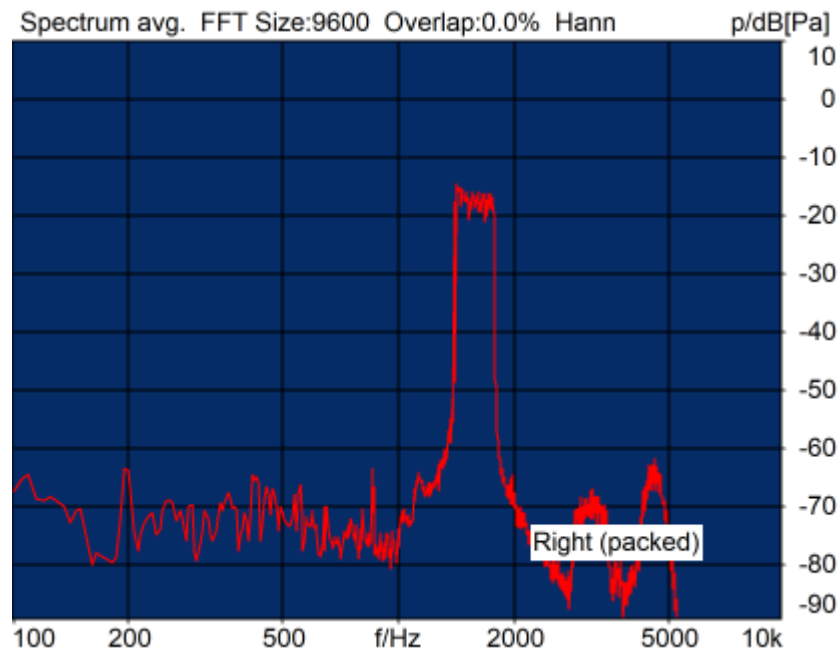
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 41.36 dB (0.86%) Ok

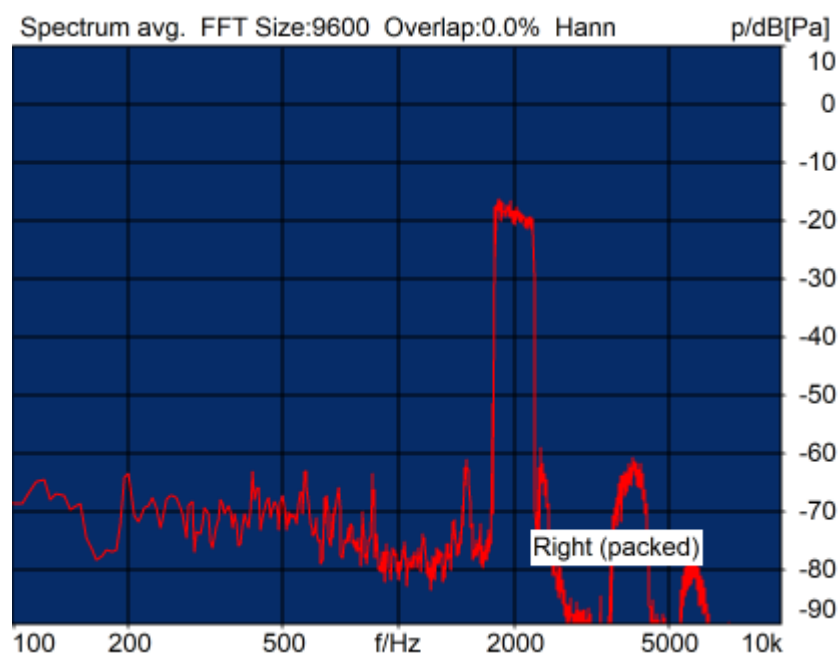
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 40.89 dB (0.90%) Ok

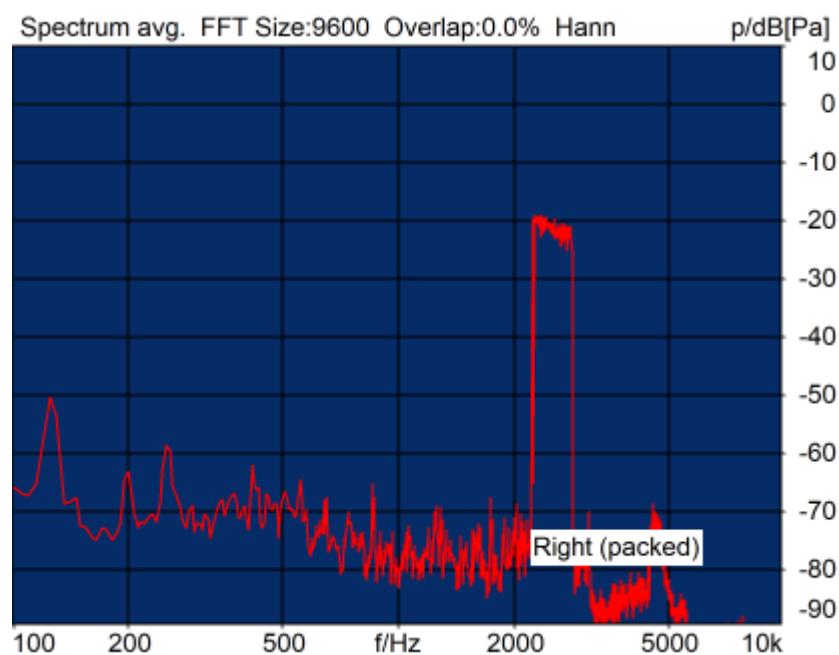
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 46.22 dB (0.49%) Ok

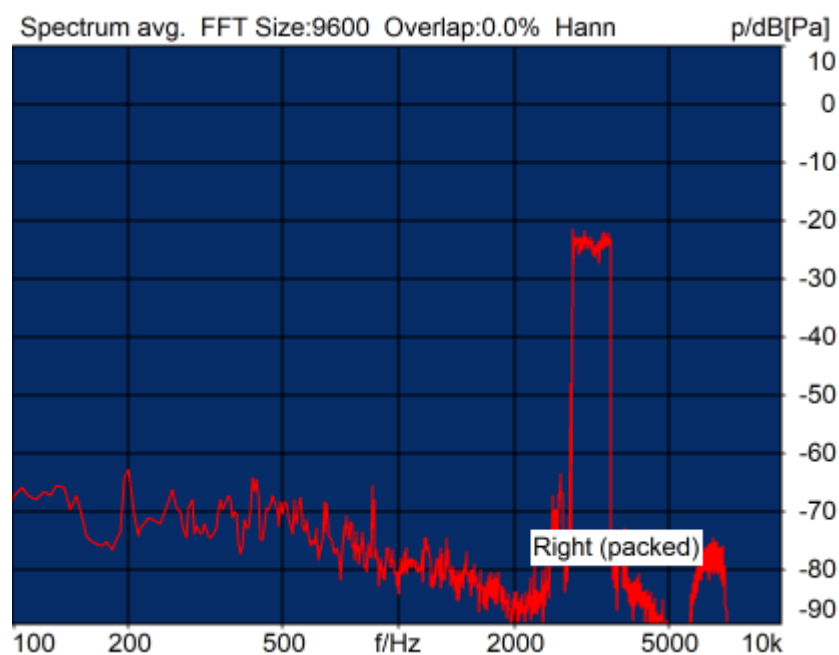
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 45.00 dB (0.56%) Ok

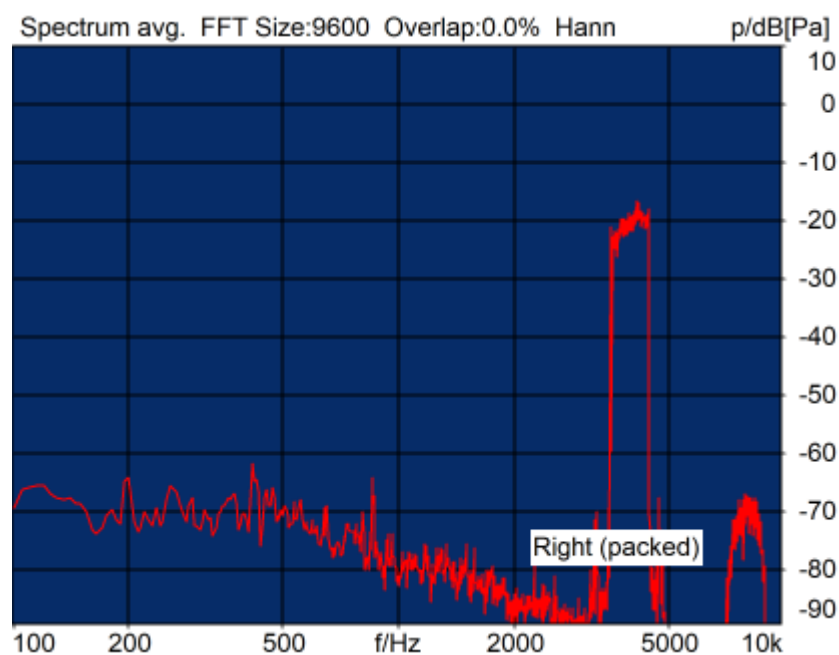
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1

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



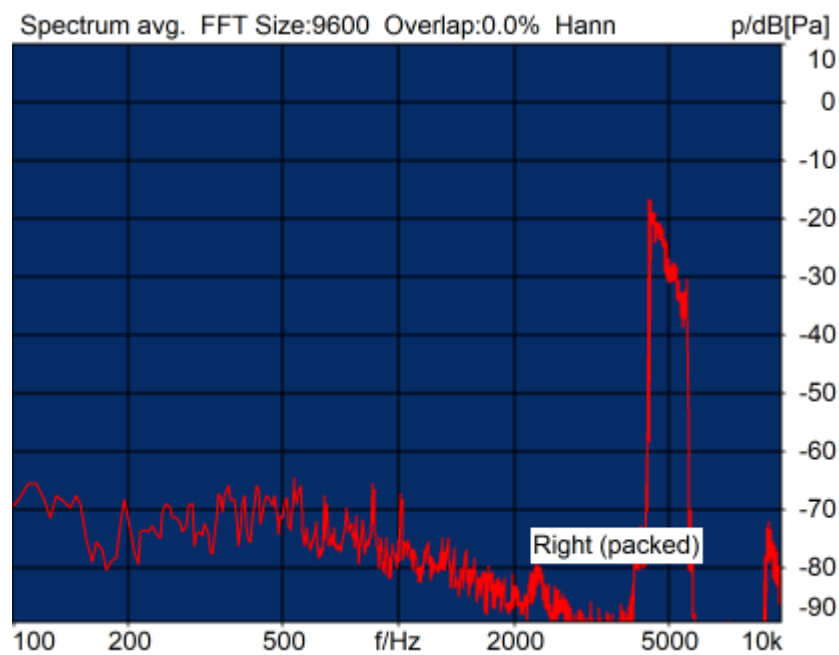
Distortion (Noise) Right (packed): 47.77 dB (0.41%) Ok

Ok

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5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 47.84 dB (0.41%) Ok

Ok

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Unmodified HEAD acoustics Measurement Descriptor

Report - Receive Distortion and Noise (Conversational Gain), Index: **1**

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

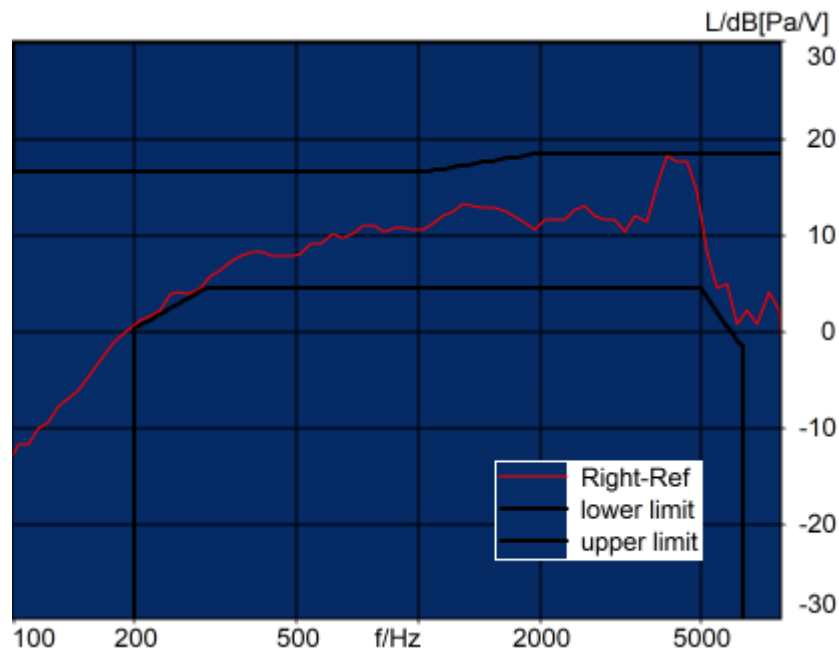
Region	Frequency	SDNR
1	250Hz	21.91 dB
2	315Hz	22.48 dB
3	400Hz	24.63 dB
4	500Hz	26.87 dB
5	630Hz	30.64 dB
6	800Hz	34.45 dB
7	1000Hz	36.72 dB
8	1250Hz	31.76 dB
9	1600Hz	41.36 dB
10	2000Hz	40.89 dB
11	2500Hz	46.22 dB
12	3150Hz	45.00 dB
13	4000Hz	47.77 dB
14	5000Hz	47.84 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.91dB at 250Hz.

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5.3 Frequency Response 2N FF, Index: 1

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



Absolute minimal distance
0.32 dB at 4119.5 Hz Ok

Ok

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Unmodified HEAD acoustics Measurement Descriptor

Measurement Protocol

Measurement Object	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
--------------------	--

Project	C9
Report Generation Date	1/26/2026 8:41 AM
Responsible Person	HP

Status Overview

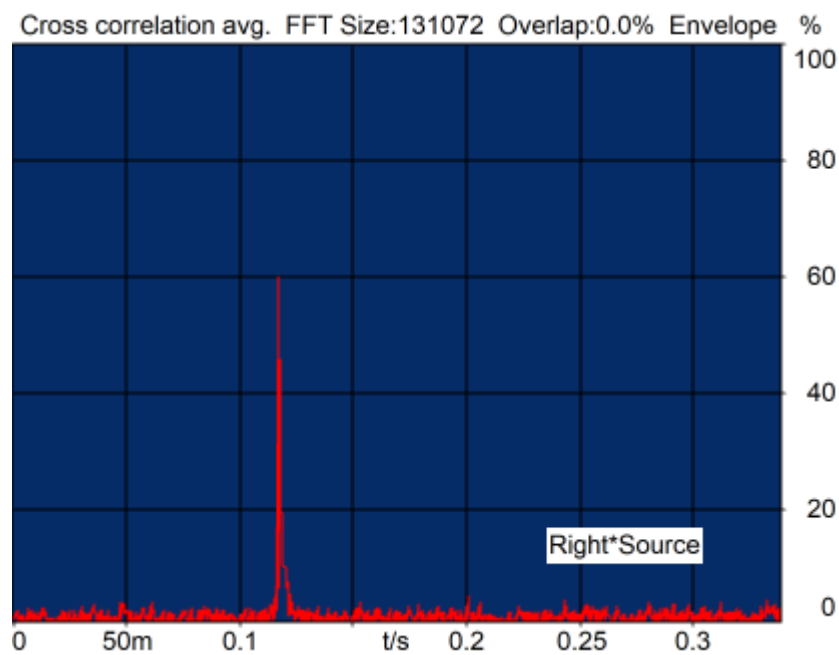
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	118.1	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.1a Receive Volume Control Performance 8N WB	Ok	Corrected Speech Level [dB[SPL]]	15.32	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.94	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.42	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.38	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.28	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.72	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.48	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.10	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.46	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.14	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.14	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.86	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.70	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.82	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.81	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2
Report - Receive Distortion and	Ok	Minimum SDNR [dB],	21.94	LTE Band 41_EVS WB

Noise (Conversational Gain)		(occured at 250Hz)		128Kbps_8N_Max-1-Sample 2
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 6117.2 Hz	0.27	LTE Band 41_EVS WB 128Kbps_8N_Max-1-Sample 2

Overall Receive Delay WB, Index: 1	6
5.1a Receive Volume Control Performance 8N WB, Index: 1	7
5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1	8
5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1	9
5.2 RCV Distortion and Noise - 400 Hz WB, Index: 1	10
5.2 RCV Distortion and Noise - 500 Hz WB, Index: 1	11
5.2 RCV Distortion and Noise - 630 Hz WB, Index: 1	12
5.2 RCV Distortion and Noise - 800 Hz WB, Index: 1	13
5.2 RCV Distortion and Noise - 1000 Hz WB, Index: 1	14
5.2 RCV Distortion and Noise - 1250 Hz WB, Index: 1	15
5.2 RCV Distortion and Noise - 1600 Hz WB, Index: 1	16
5.2 RCV Distortion and Noise - 2000 Hz WB, Index: 1	17
5.2 RCV Distortion and Noise - 2500 Hz WB, Index: 1	18
5.2 RCV Distortion and Noise - 3150 Hz WB, Index: 1	19
5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1	20
5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1	21
Report - Receive Distortion and Noise (Conversational Gain), Index: 1	22
5.3 Frequency Response 8N FF, Index: 1	23

Overall Receive Delay WB, Index: 1

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



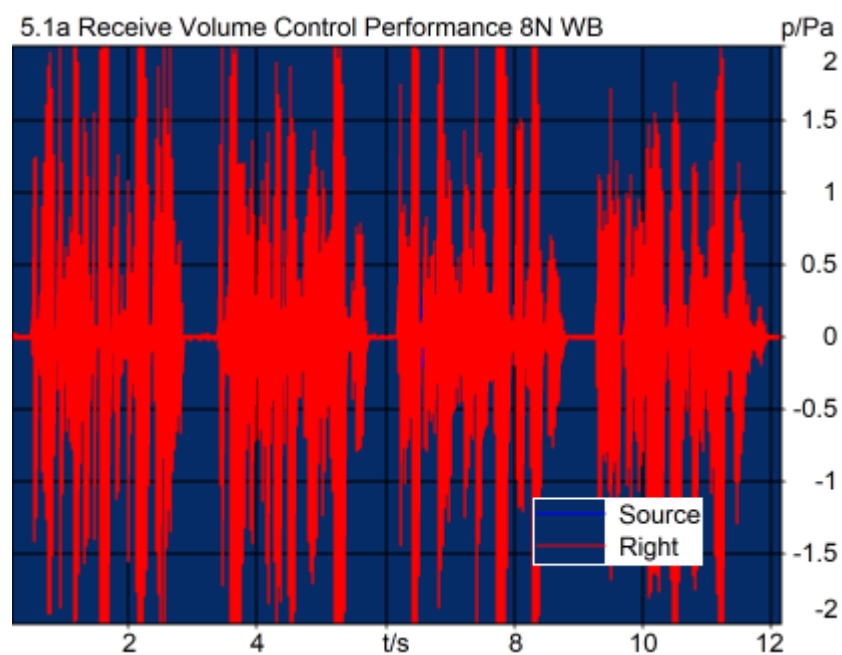
Channel	Delay	Correlation
Right*Source	118.1 ms	60.06 %

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Correction

X - 70

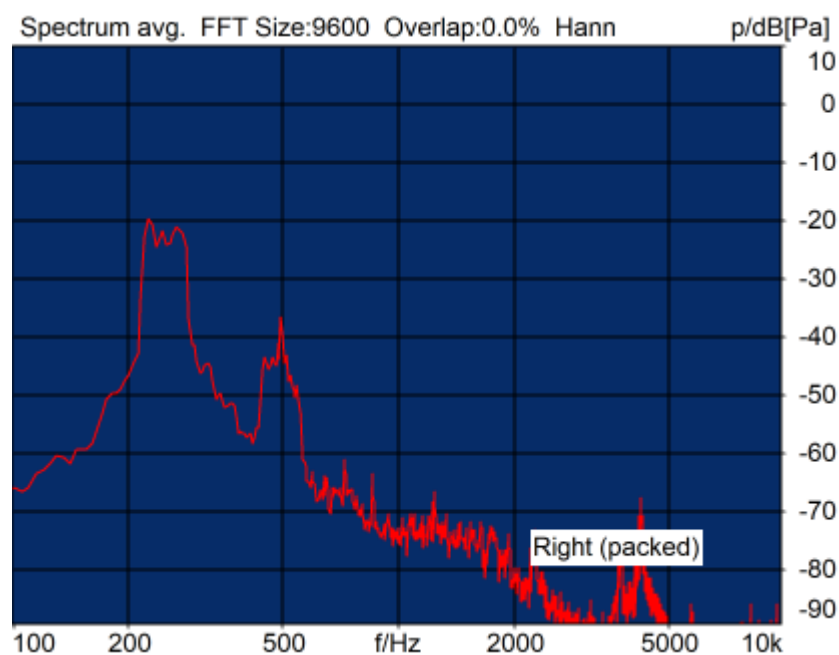
Channel	Speech level	Activity	Corrected speech level	
Right	85.32 dB[SPL]	85.89%	15.32 dB[SPL]	Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB, Index: 1

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



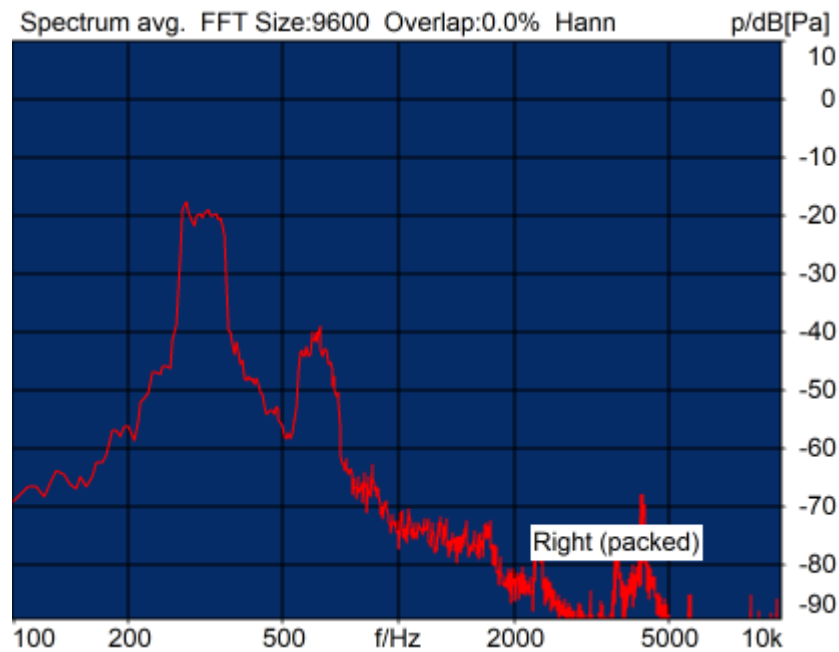
Distortion (Noise) Right (packed): 21.94 dB (8.00%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 22.42 dB (7.57%) Ok

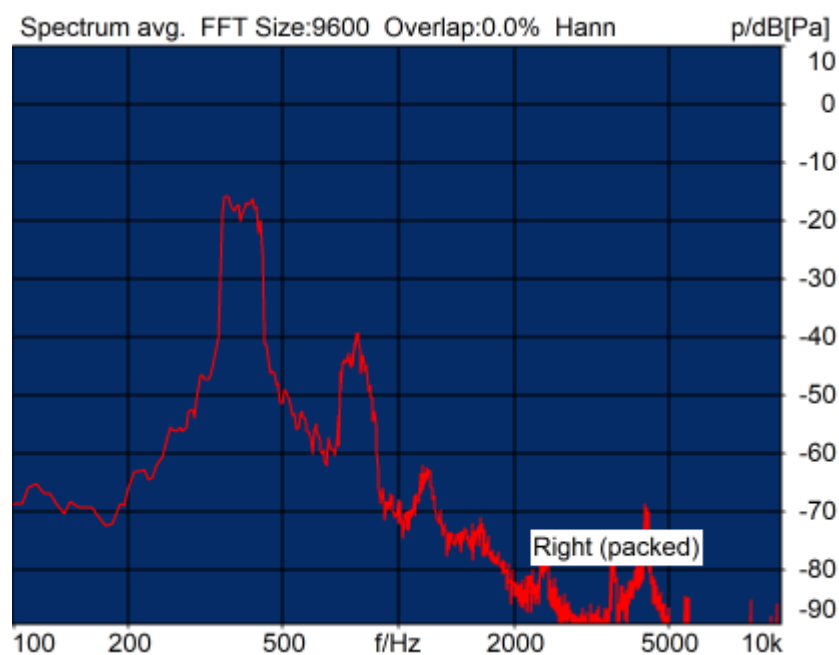
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 24.38 dB (6.04%) Ok

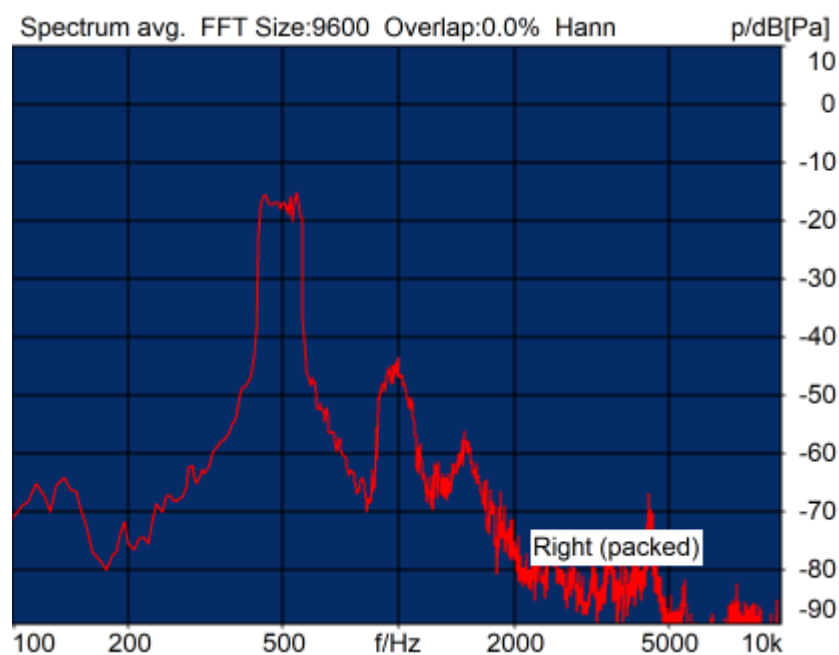
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 27.28 dB (4.33%) Ok

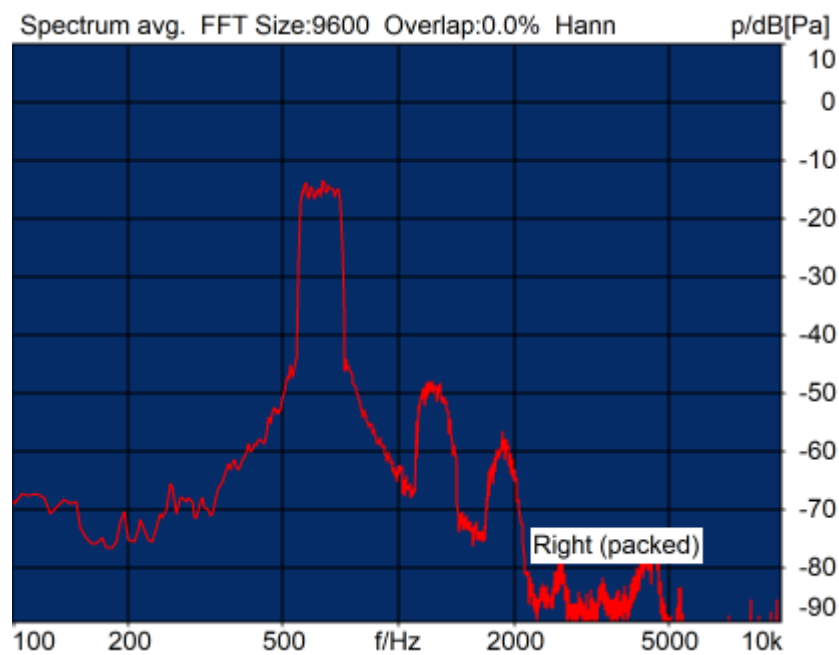
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 30.72 dB (2.91%) Ok

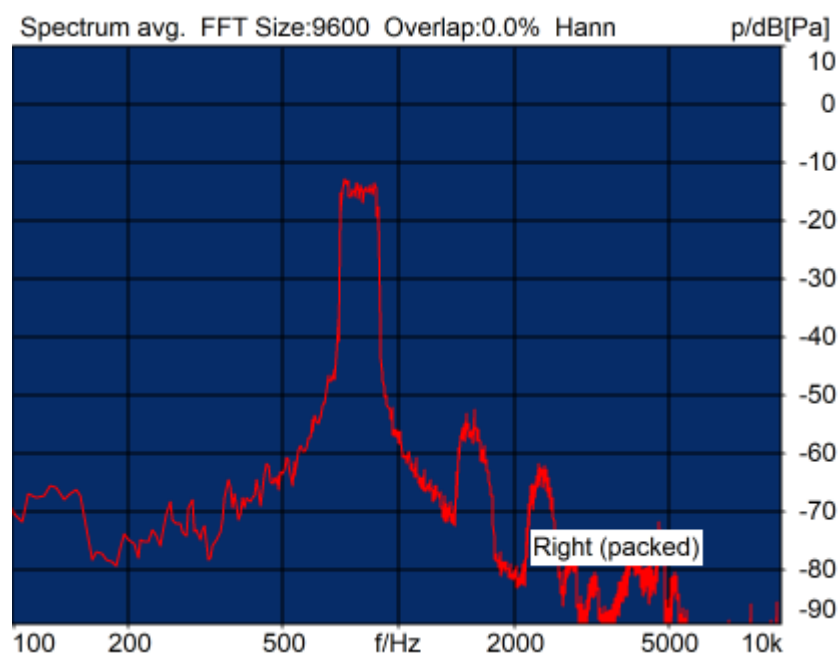
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 35.48 dB (1.68%) Ok

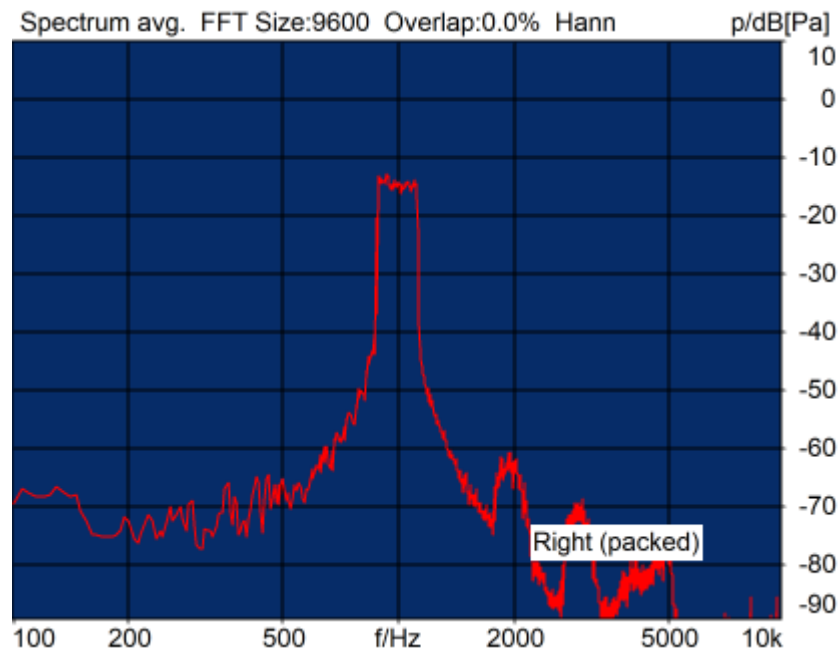
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 35.10 dB (1.76%) Ok

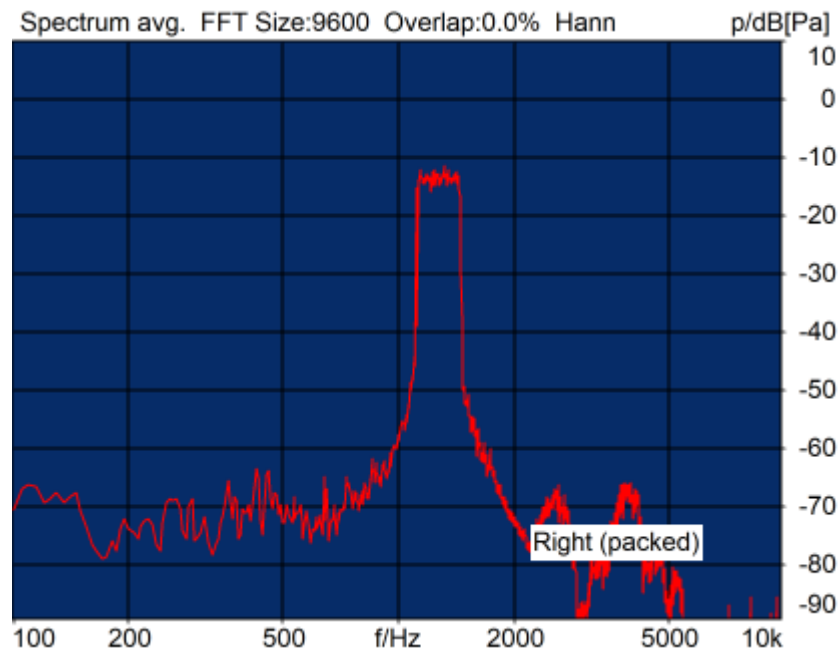
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 32.46 dB (2.38%) Ok

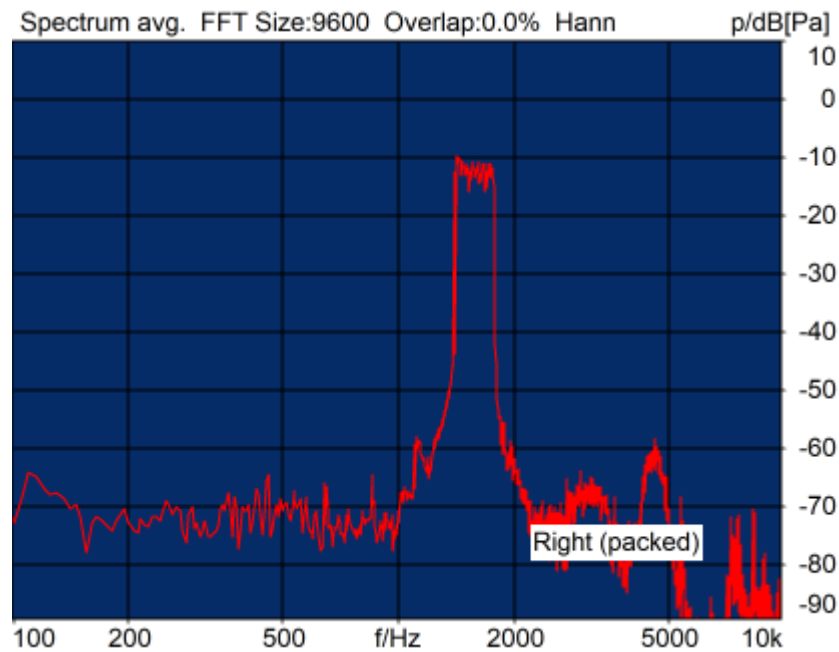
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 41.14 dB (0.88%) Ok

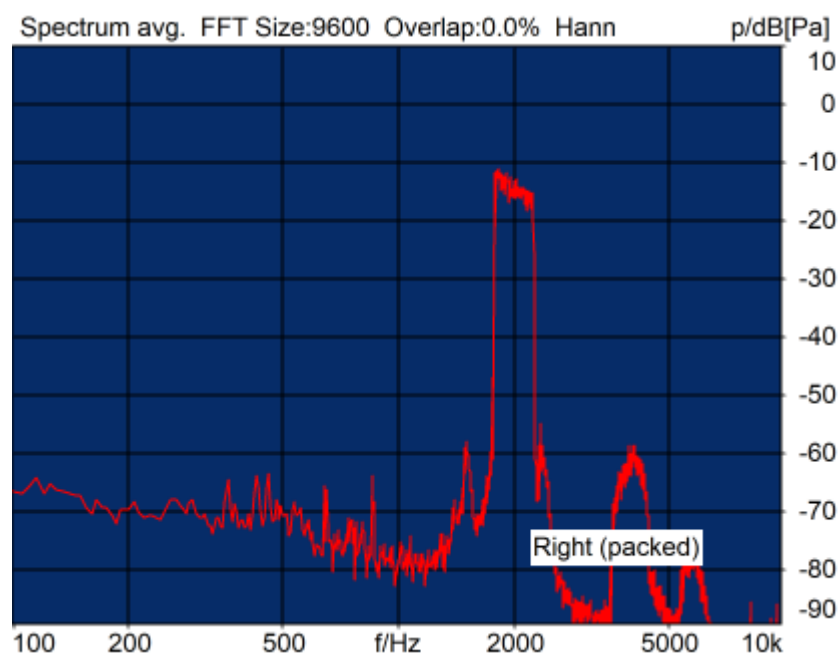
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 43.14 dB (0.70%) Ok

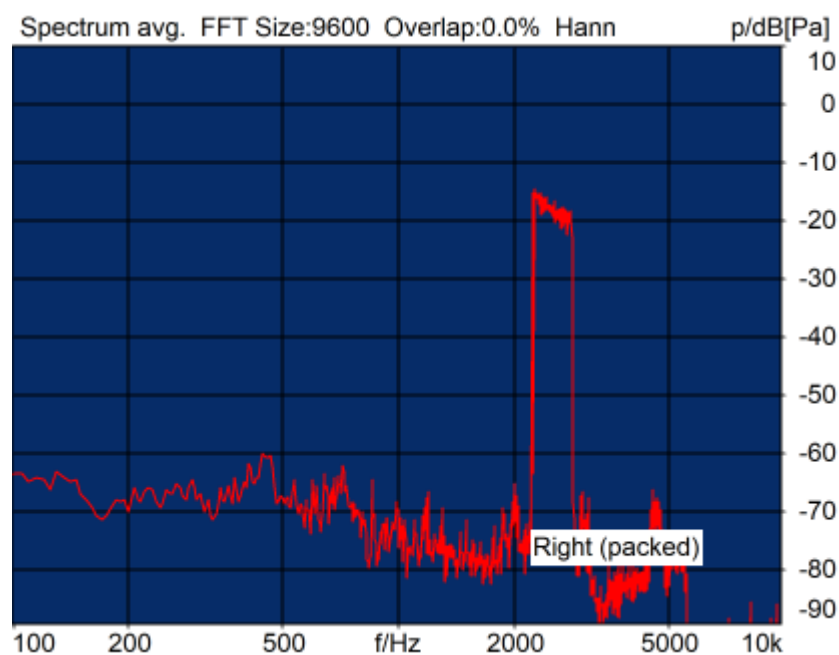
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 46.86 dB (0.45%) Ok

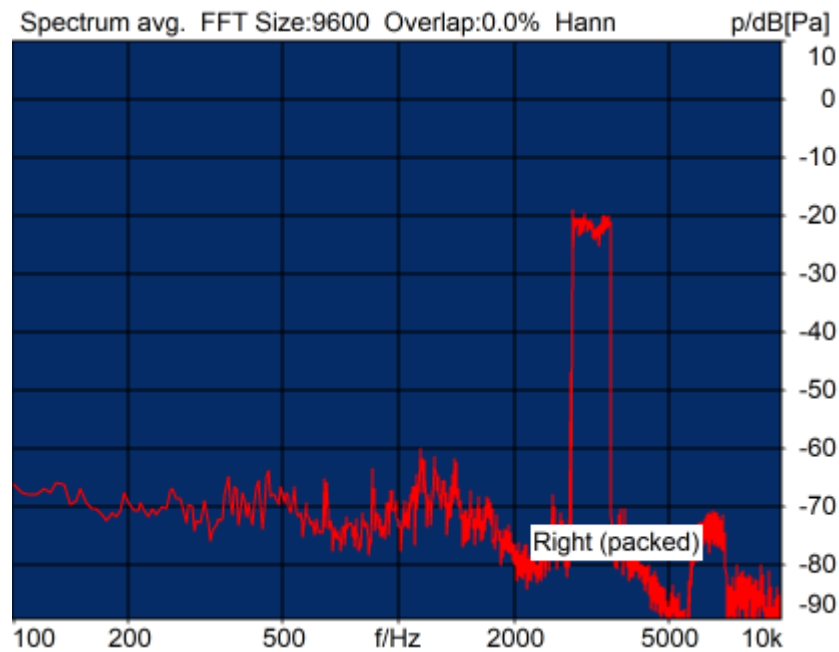
Ok

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Distortion (Noise) Right (packed): 42.70 dB (0.73%) Ok

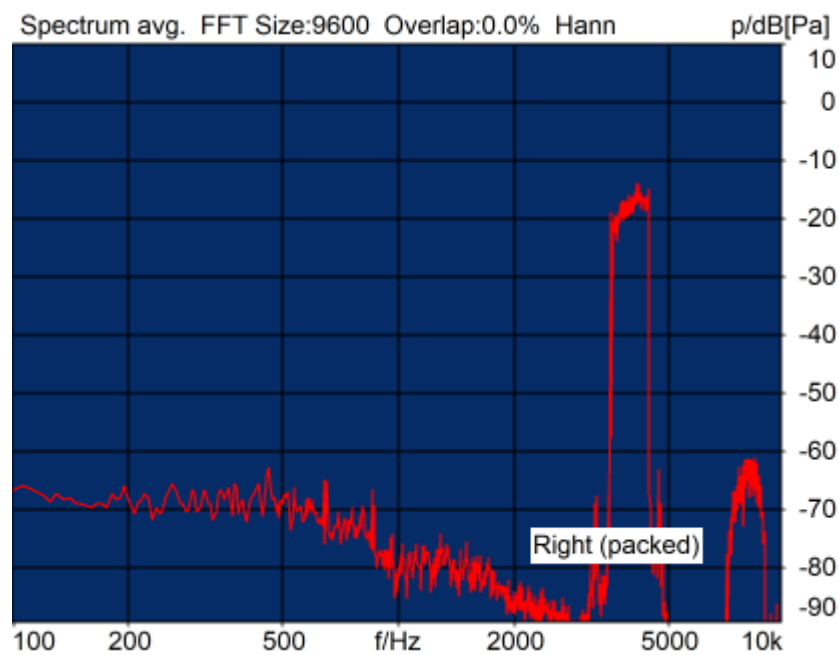
Ok

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Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 4000 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 45.82 dB (0.51%) Ok

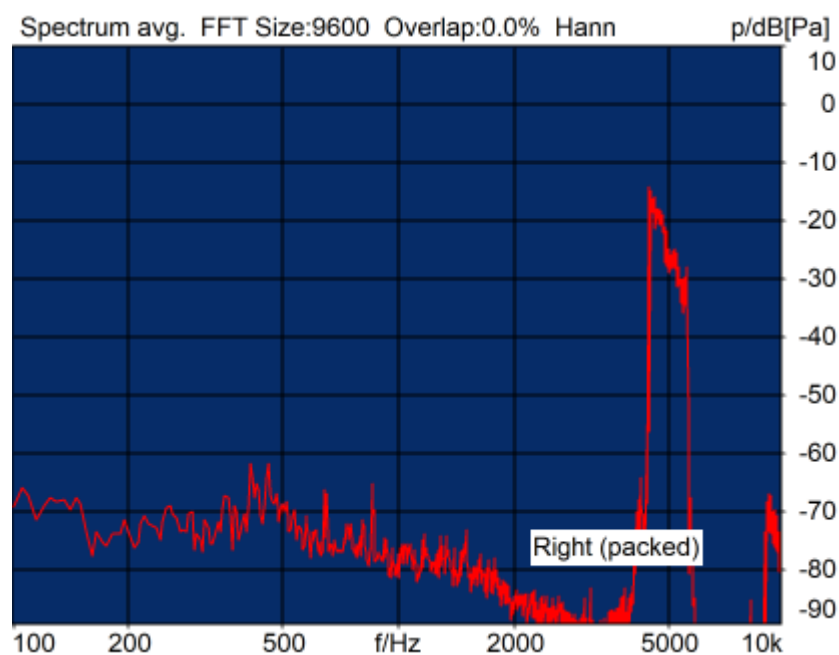
Ok

12/19/2025 5:24 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

5.2 RCV Distortion and Noise - 5000 Hz WB, Index: 1

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



Distortion (Noise) Right (packed): 47.81 dB (0.41%) Ok

Ok

12/19/2025 5:25 PM ACQUA 6.1.110

Unmodified HEAD acoustics Measurement Descriptor

Report - Receive Distortion and Noise (Conversational Gain), Index: 1

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

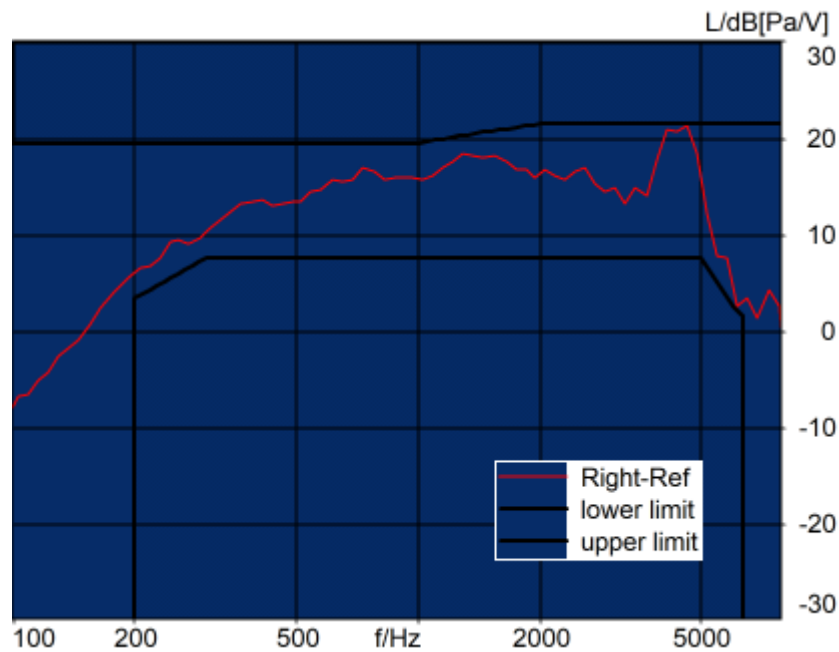
Region	Frequency	SDNR
1	250Hz	21.94 dB
2	315Hz	22.42 dB
3	400Hz	24.38 dB
4	500Hz	27.28 dB
5	630Hz	30.72 dB
6	800Hz	35.48 dB
7	1000Hz	35.10 dB
8	1250Hz	32.46 dB
9	1600Hz	41.14 dB
10	2000Hz	43.14 dB
11	2500Hz	46.86 dB
12	3150Hz	42.70 dB
13	4000Hz	45.82 dB
14	5000Hz	47.81 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 21.94dB at 250Hz.

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5.3 Frequency Response 8N FF, Index: 1

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



Absolute minimal distance
0.27 dB at 6117.2 Hz Ok

Ok

12/19/2025 5:26 PM ACQUA 6.1.110
Unmodified HEAD acoustics Measurement Descriptor

Measurement Protocol

Measurement Object	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
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Project	C9
Report Generation Date	1/26/2026 8:40 AM
Responsible Person	HP

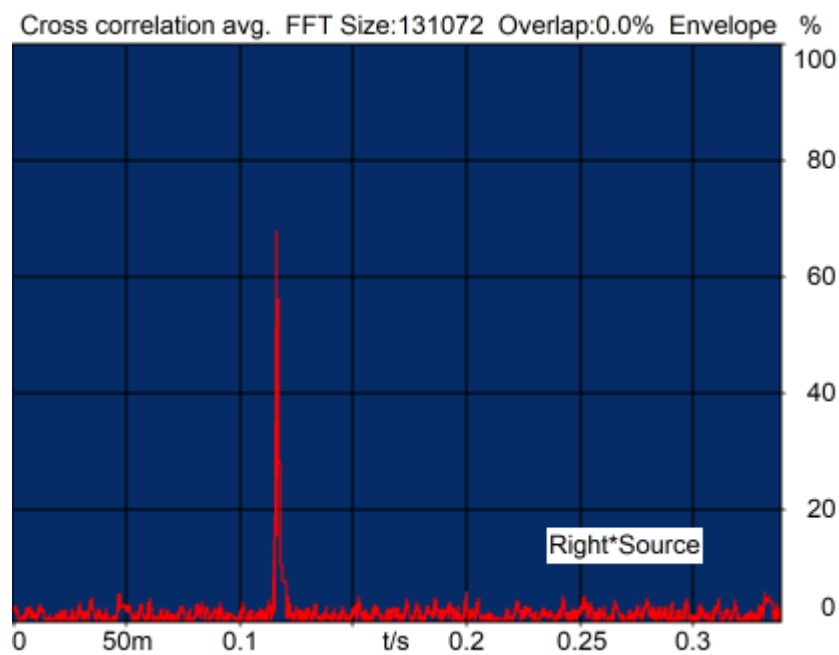
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	117.2	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.1a Receive Volume Control Performance 8N NB	Ok	Corrected Speech Level [dB[SPL]]	16.10	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.29	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.94	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.91	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.20	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.66	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.97	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.82	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.38	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.90	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.69	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 400Hz)	24.29	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.86	LTE Band 71_EVS NB 24.4Kbps_8N_Max-1-Sample 2

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



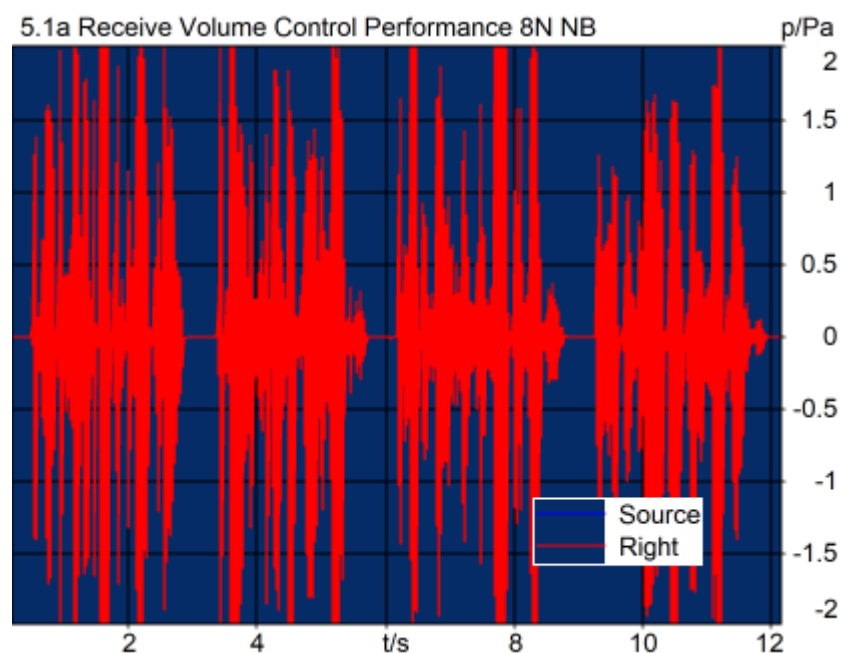
Channel	Delay	Correlation
Right*Source	117.2 ms	67.86 %

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Unmodified HEAD acoustics Measurement Descriptor

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

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



Correction

X - 70

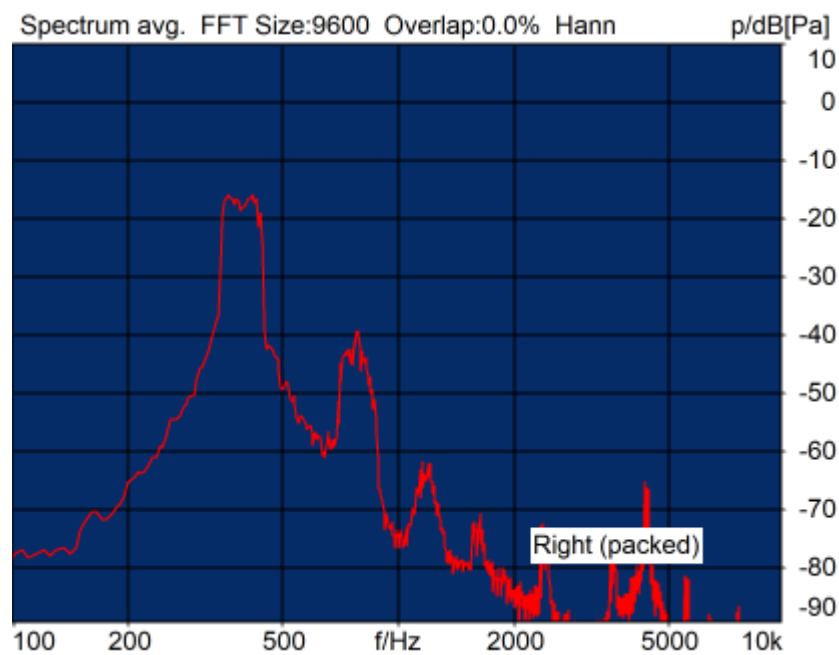
Channel	Speech level	Activity	Corrected speech level	
Right	86.10 dB[SPL]	81.63%	16.10 dB[SPL]	Ok

Ok

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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): 24.29 dB (6.10%) Ok

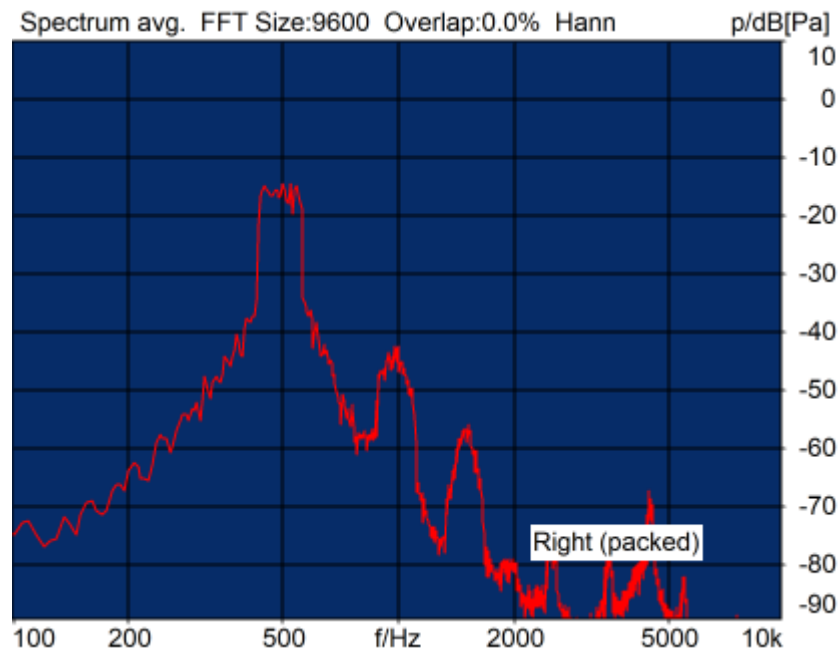
Ok

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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): 24.94 dB (5.66%) Ok

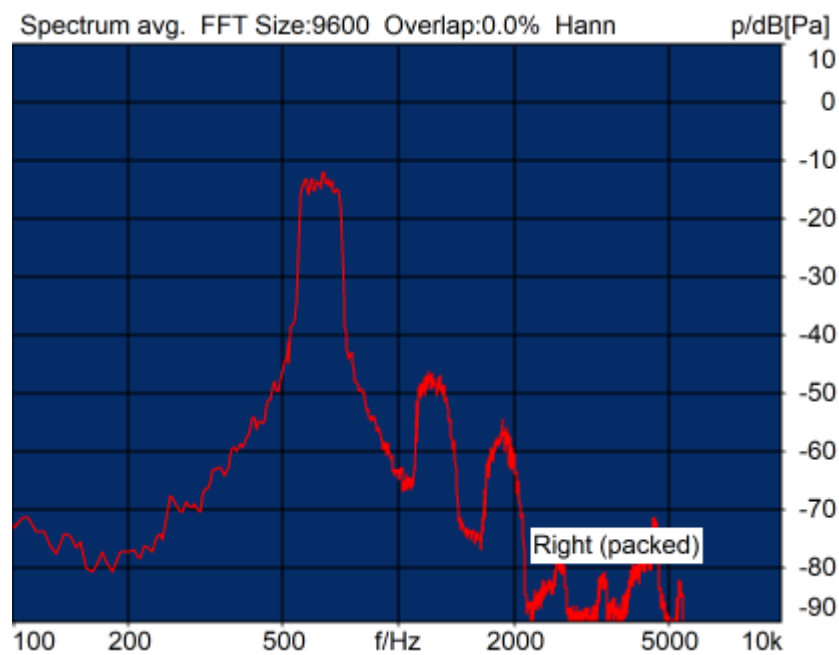
Ok

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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): 29.91 dB (3.19%) Ok

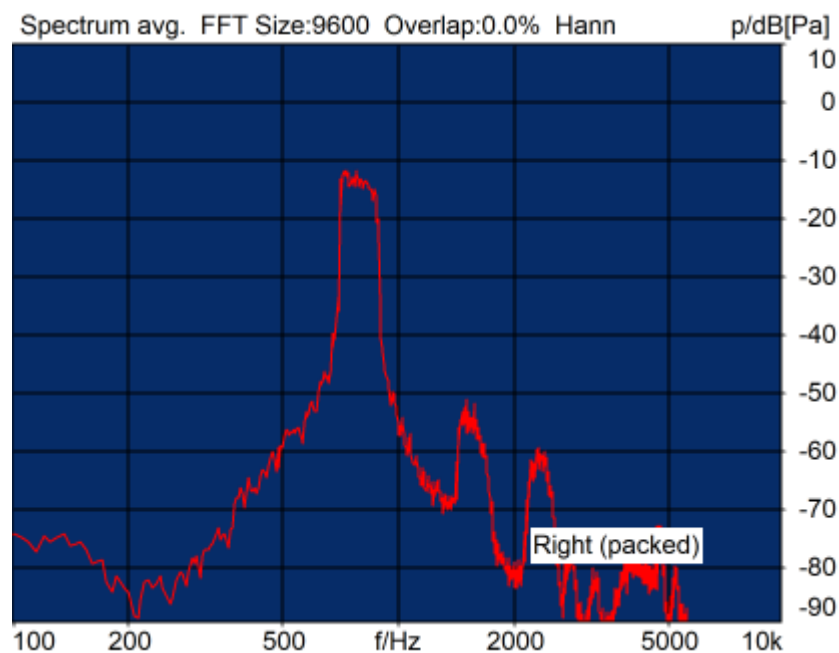
Ok

12/18/2025 3:49 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): 34.20 dB (1.95%) Ok

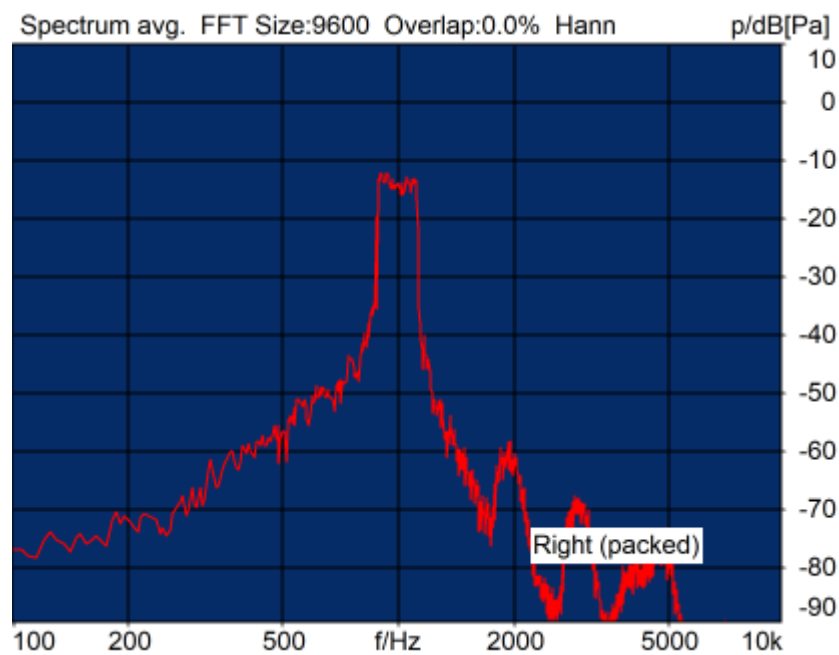
Ok

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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): 29.66 dB (3.29%) Ok

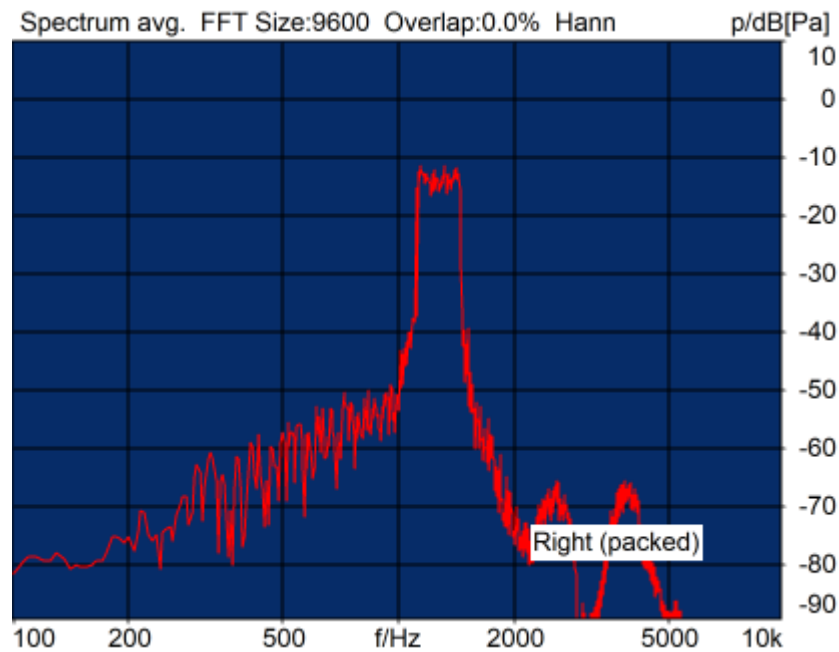
Ok

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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): 28.97 dB (3.56%) Ok

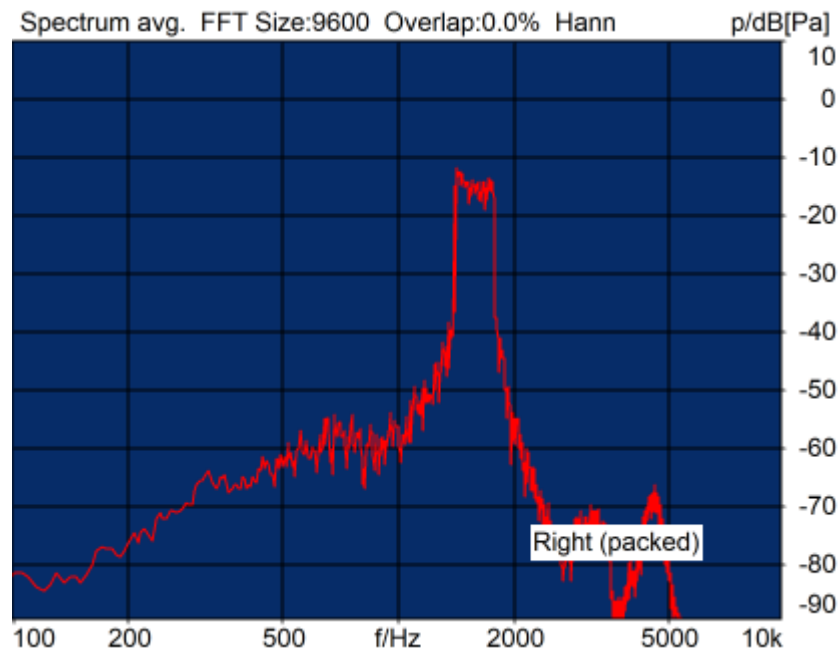
Ok

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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): 29.82 dB (3.23%) Ok

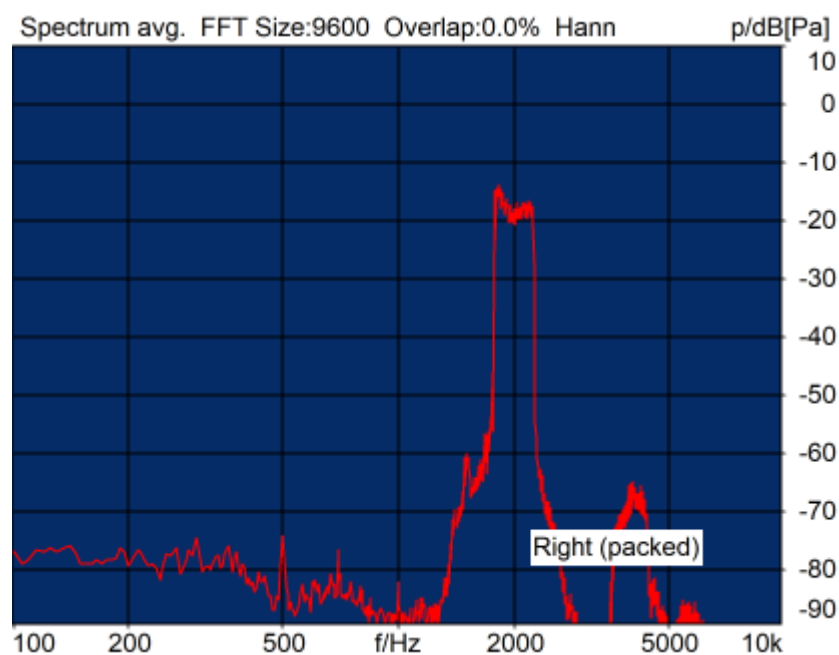
Ok

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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): 42.38 dB (0.76%) Ok

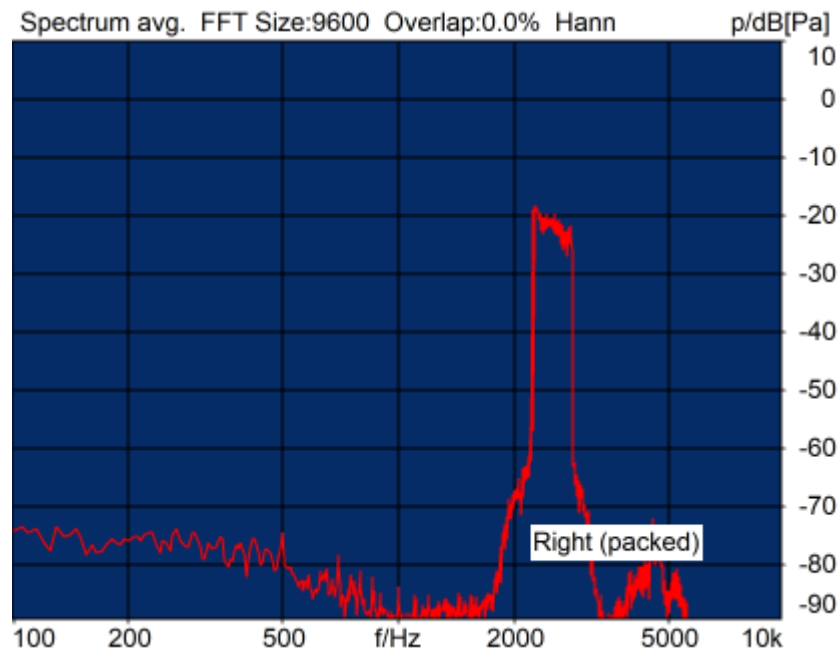
Ok

12/18/2025 3:51 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): 43.90 dB (0.64%) Ok

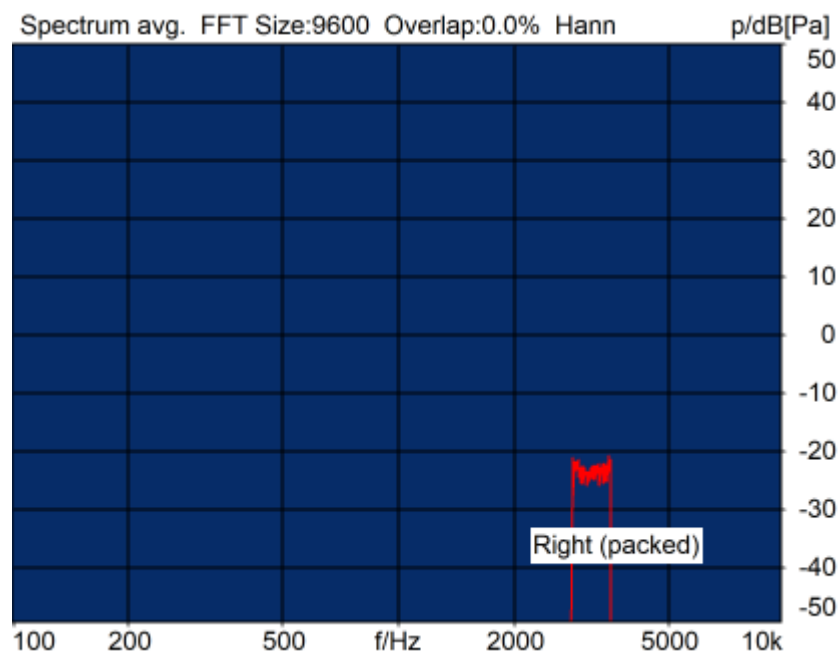
Ok

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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): 41.69 dB (0.82%) Ok

Ok

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Report - Receive Distortion and Noise (Conversational Gain), Index: **1**

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

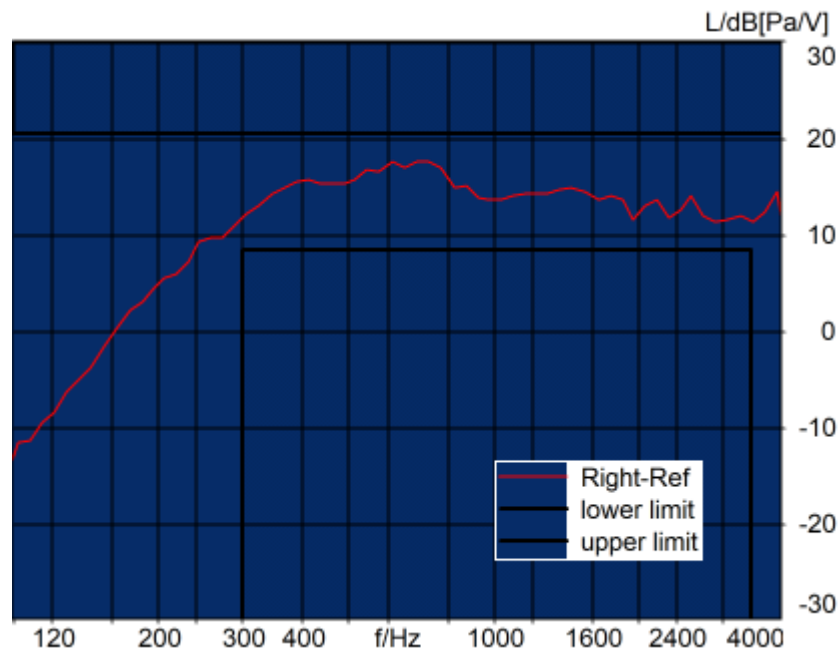
Region	Frequency	SDNR
1	400Hz	24.29 dB
2	500Hz	24.94 dB
3	630Hz	29.91 dB
4	800Hz	34.20 dB
5	1000Hz	29.66 dB
6	1250Hz	28.97 dB
7	1600Hz	29.82 dB
8	2000Hz	42.38 dB
9	2500Hz	43.90 dB
10	3150Hz	41.69 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 24.29dB at 400Hz.

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5.3 Frequency Response 8N FF, Index: 1

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



Absolute minimal distance
2.86 dB at 611.7 Hz Ok

Ok

12/18/2025 5:08 PM ACQUA 6.1.110