



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.a>

#1 WiFi 6GHz EVS NB 24.4kbps

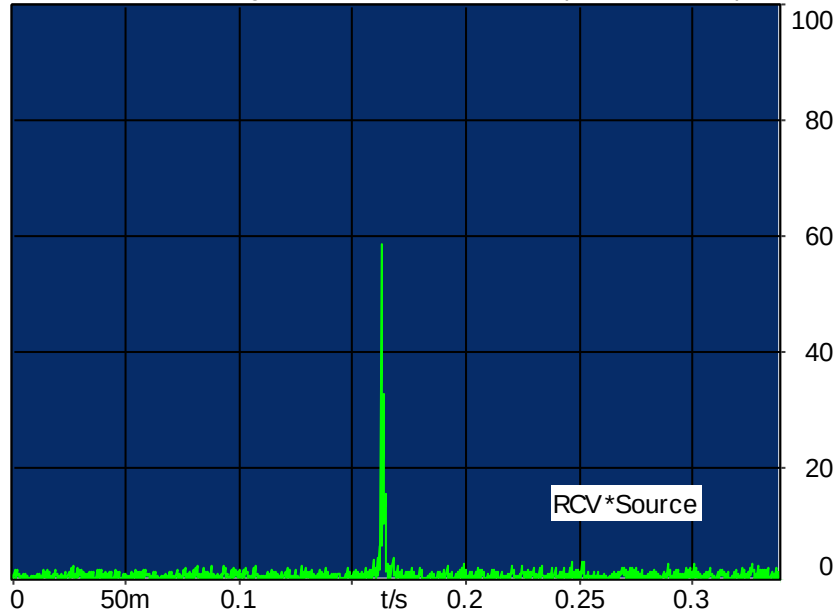
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	163.9
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.91
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.48
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.62
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.75
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.34
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.95
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.38
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.05
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.79
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.37
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.48
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.92
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.95
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.67
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.78
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.51
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.92
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.03
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.14
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.79
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.55
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.46
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	0.05
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2057.5 Hz	0.03
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1647.8 Hz	0.13
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2057.5 Hz	0.03

Overall Receive Delay NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)

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



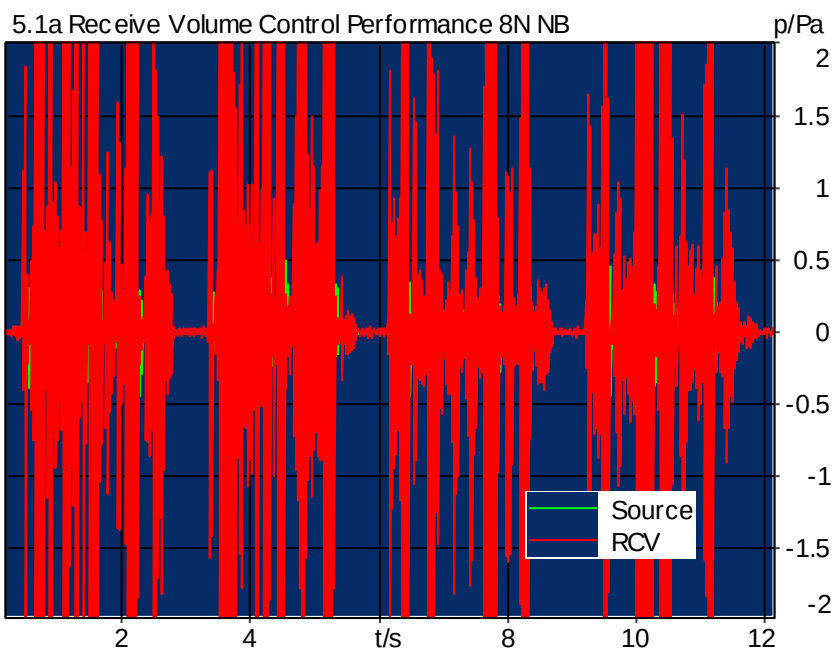
Channel	Delay	Correlation
RCV*Source	163.9 ms	58.57 %

2024-10-14 下午 08:56 ACQUA 6.1.100

5.1a Receive Volume Control Performance 8N NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Channel	Speech level	Activity	
RCV	89.91 dB[SPL]	80.73%	Ok

Ok

2024-10-14 下午 09:24 ACQUA 6.1.100

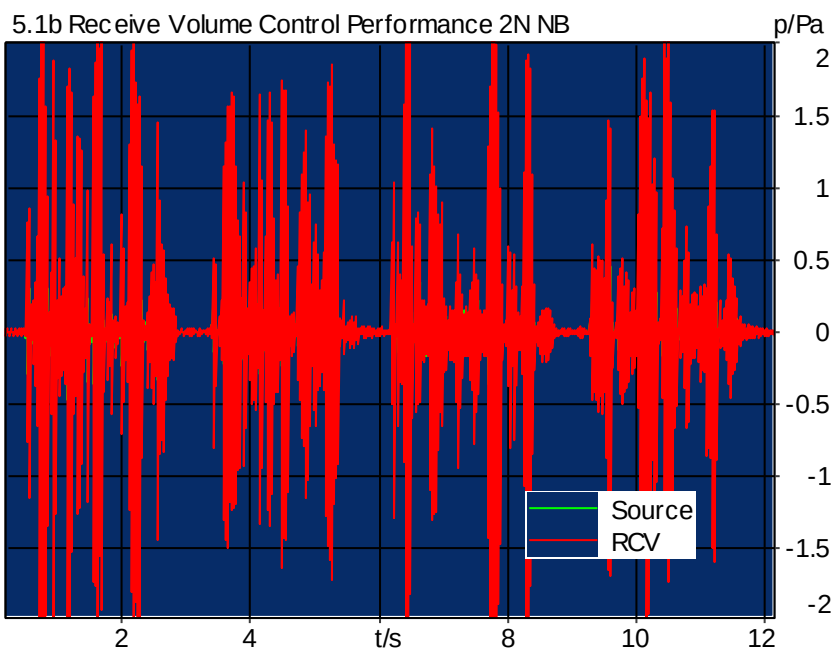
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Channel	Speech level	Activity	
RCV	83.48 dB[SPL]	80.00%	Ok

Ok

2024-10-14 下午 08:57 ACQUA 6.1.100

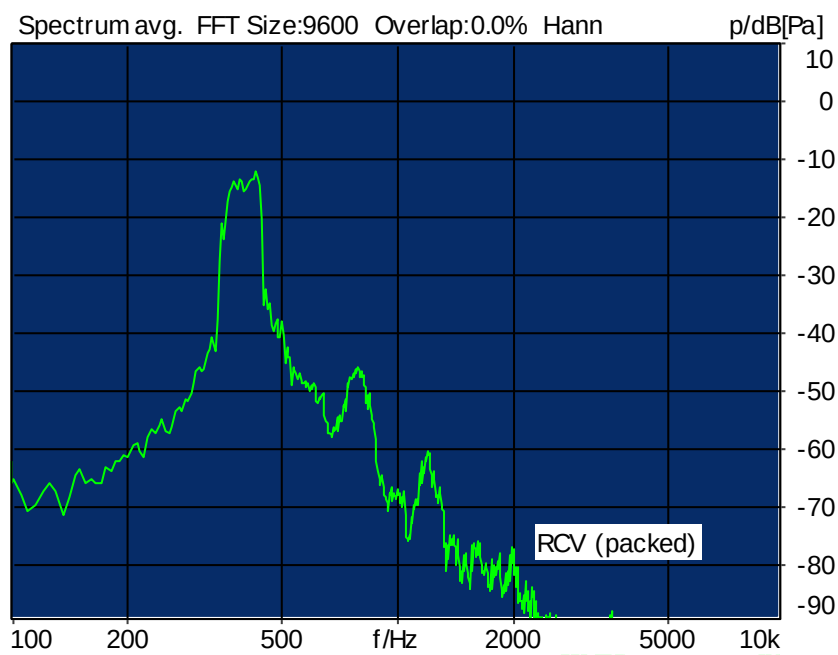
Limits

lower
76.00 dB[SPL]

5.2 RCV Distortion and Noise - 400 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 28.62 dB (3.71%) Ok

Ok

2024-10-14 下午 09:34 ACQUA 6.1.100

Limits

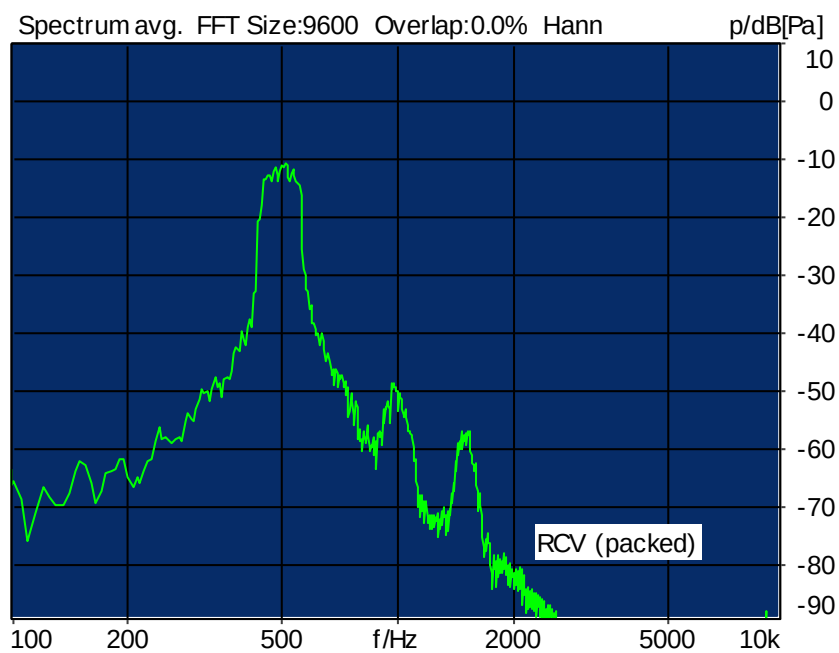
lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 29.75 dB (3.25%) Ok

Ok

2024-10-14 下午 09:34 ACQUA 6.1.100

Limits

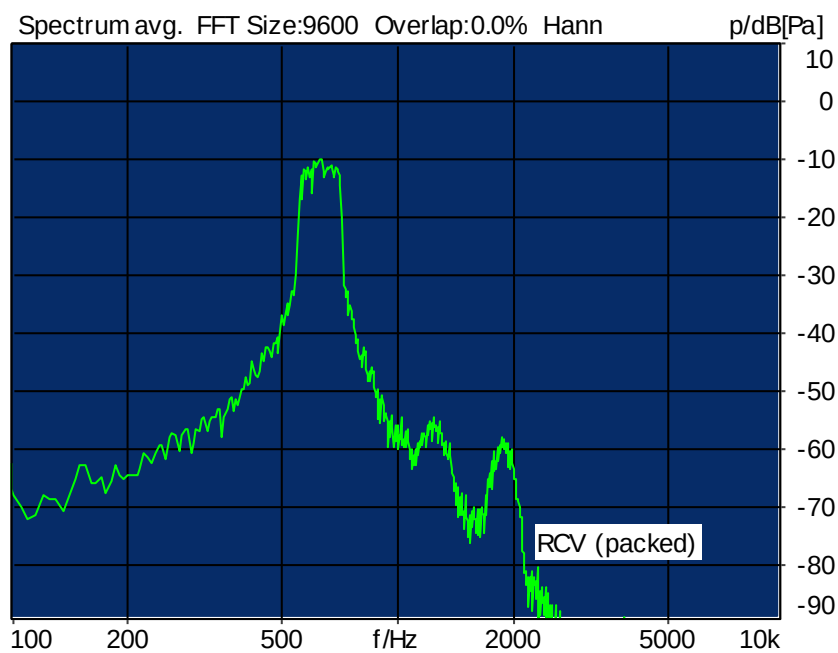
lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 29.34 dB (3.41%) Ok

Ok

2024-10-14 下午 09:35 ACQUA 6.1.100

Limits

lower

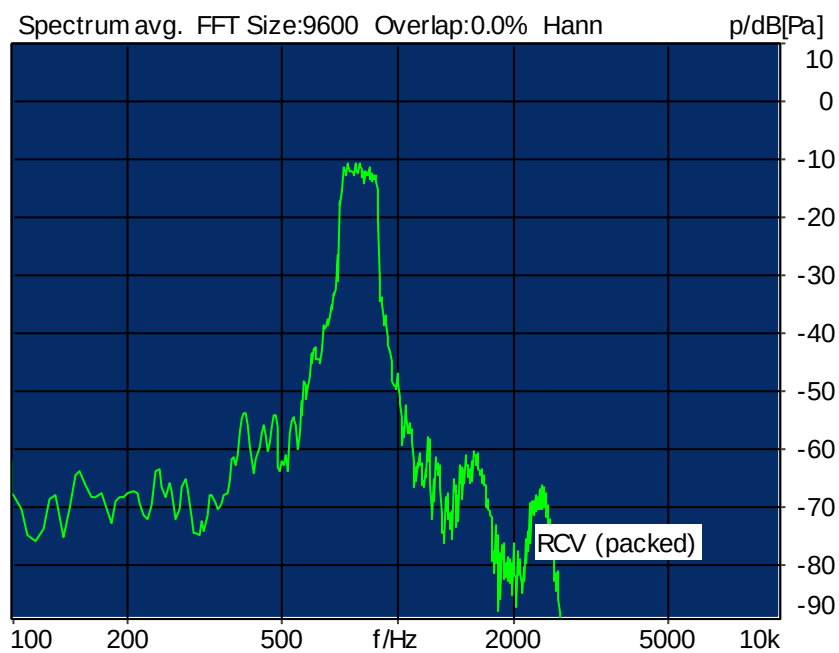
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 30.95 dB (2.84%) Ok

Ok

2024-10-14 下午 09:36 ACQUA 6.1.100

Limits

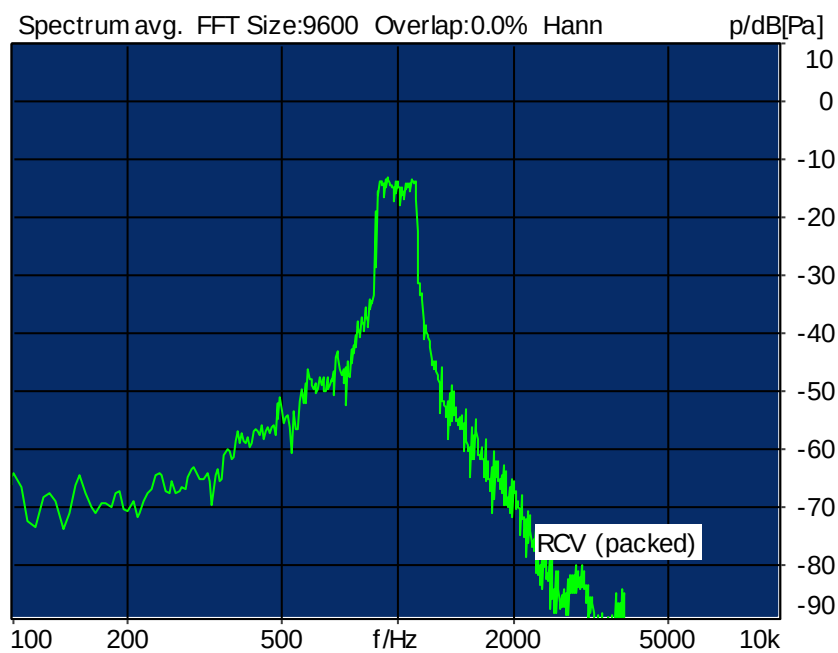
lower
20.00 dB



5.2 RCV Distortion and Noise - 1000 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 25.38 dB (5.39%) Ok

Ok

2024-10-14 下午 09:36 ACQUA 6.1.100

Limits

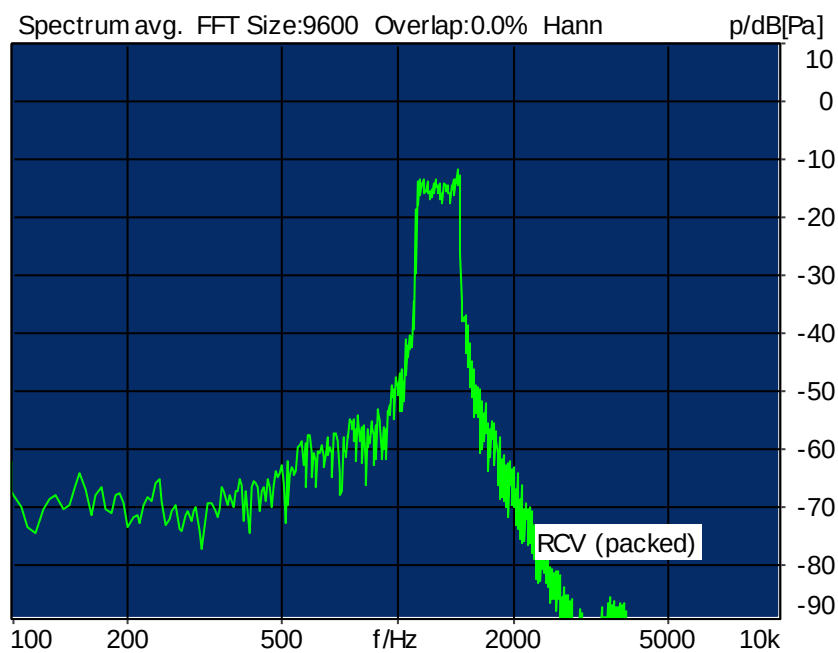
lower
20.00 dB



5.2 RCV Distortion and Noise - 1250 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 25.05 dB (5.59%) Ok

Ok

2024-10-14 下午 09:37 ACQUA 6.1.100

Limits

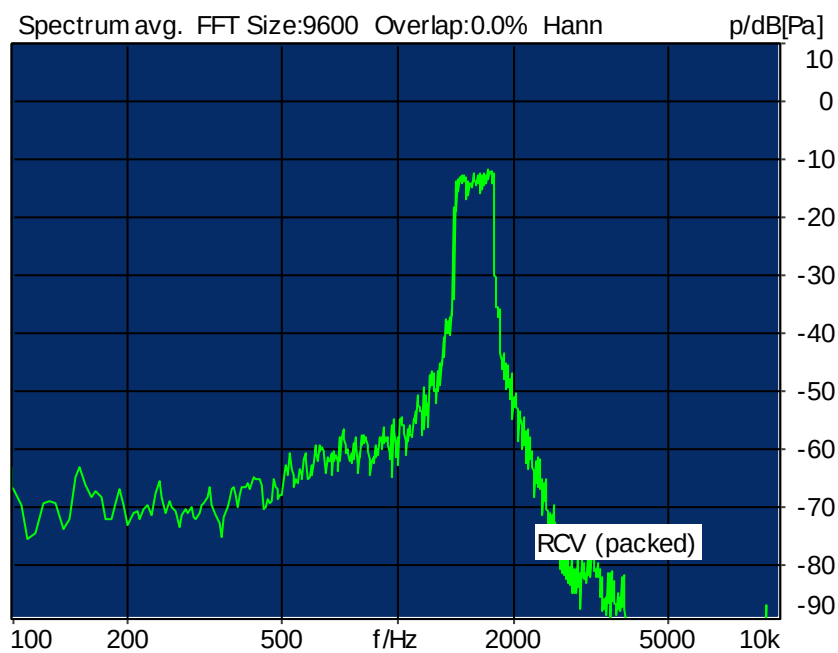
lower
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 28.79 dB (3.64%) Ok

Ok

2024-10-14 下午 09:37 ACQUA 6.1.100

Limits

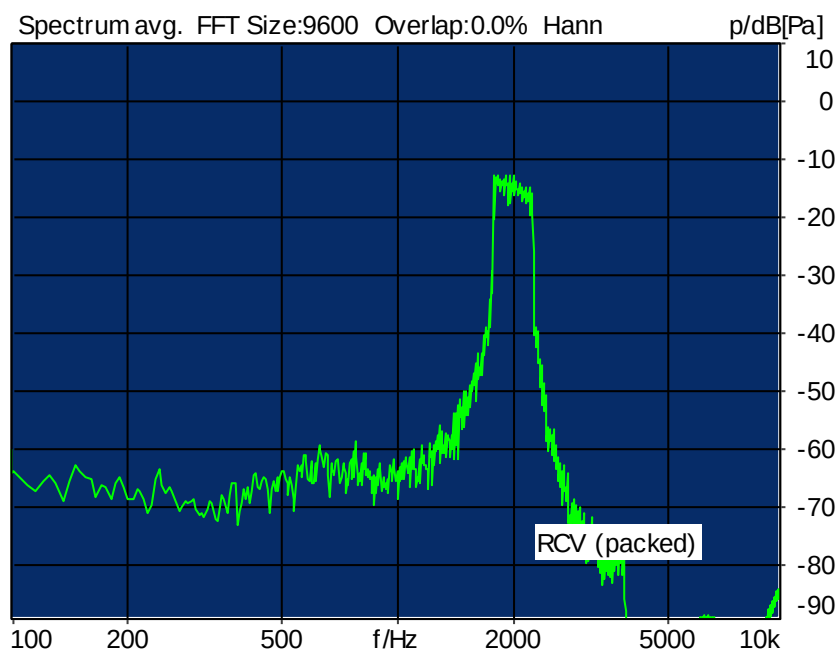
lower
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 28.37 dB (3.82%) Ok

Ok

2024-10-14 下午 09:38 ACQUA 6.1.100

Limits

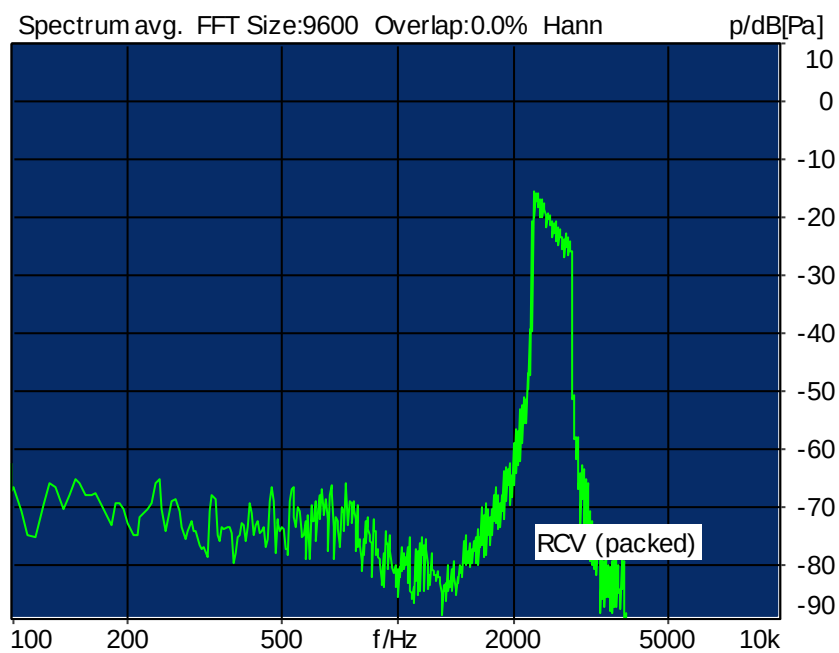
lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 34.48 dB (1.89%) Ok

Ok

2024-10-14 下午 09:38 ACQUA 6.1.100

Limits

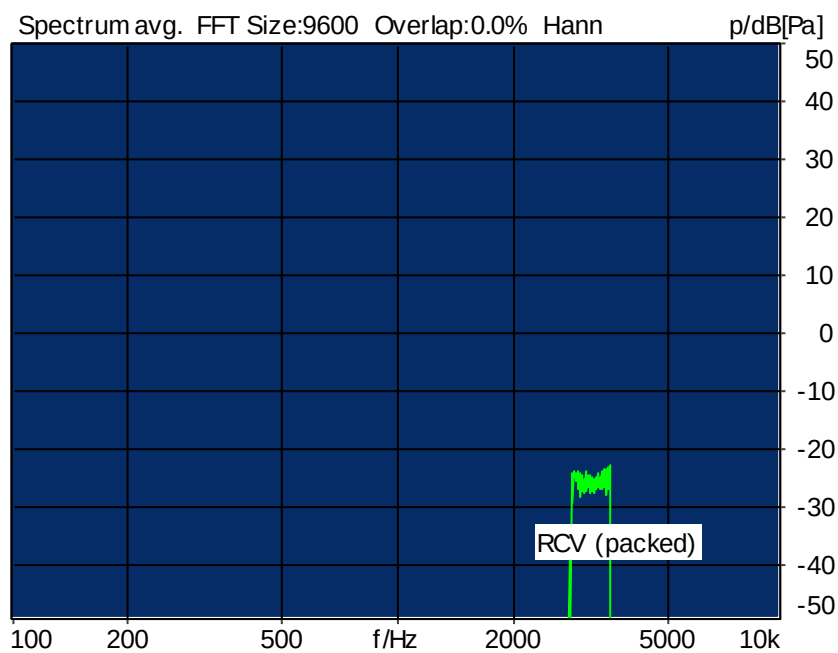
lower
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 37.92 dB (1.27%) Ok

Ok

2024-10-14 下午 09:39 ACQUA 6.1.100

Limits

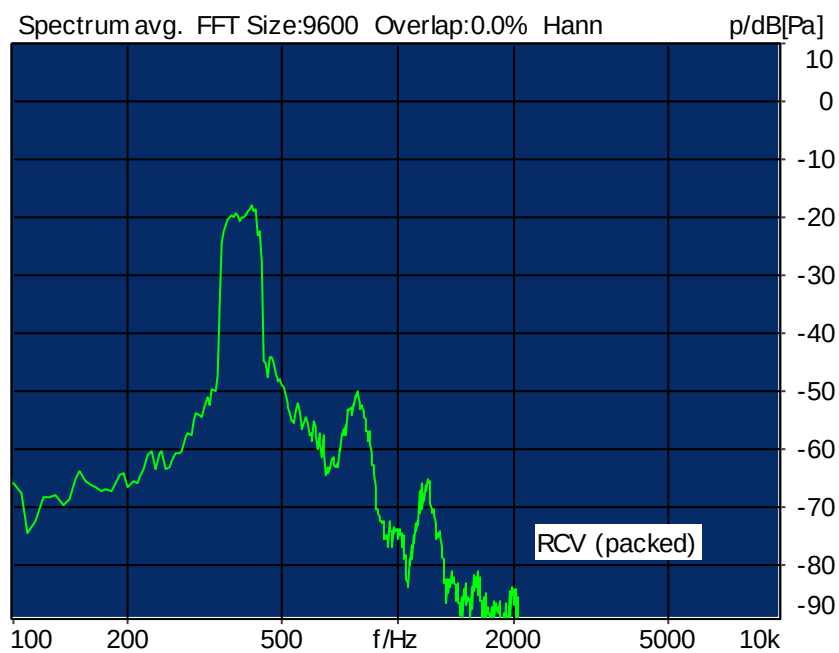
lower
20.00 dB



5.2 RCV Distortion and Noise - 400 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 29.95 dB (3.18%) Ok

Ok

2024-10-14 下午 09:16 ACQUA 6.1.100

Limits

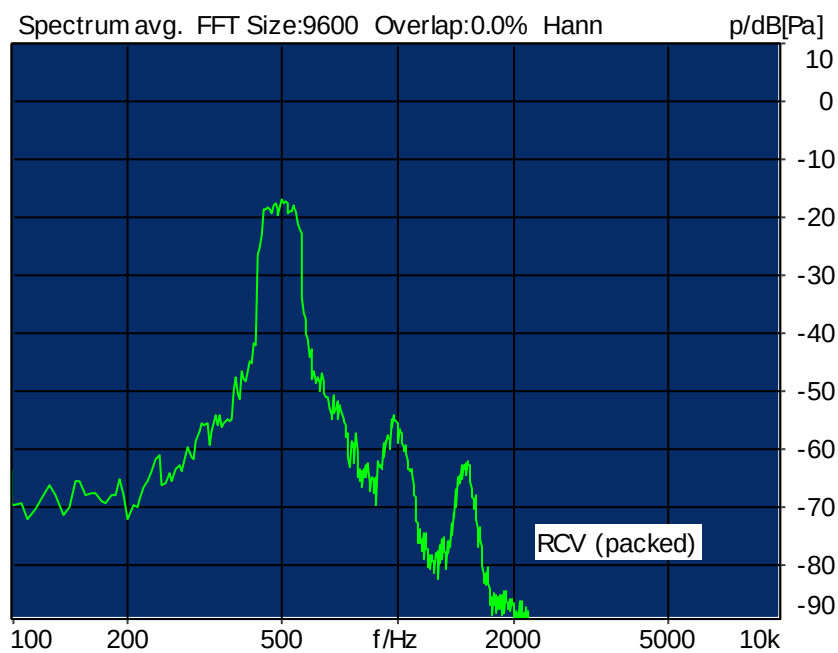
lower
20.00 dB



5.2 RCV Distortion and Noise - 500 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 30.67 dB (2.93%) Ok

Ok

2024-10-14 下午 09:16 ACQUA 6.1.100

Limits

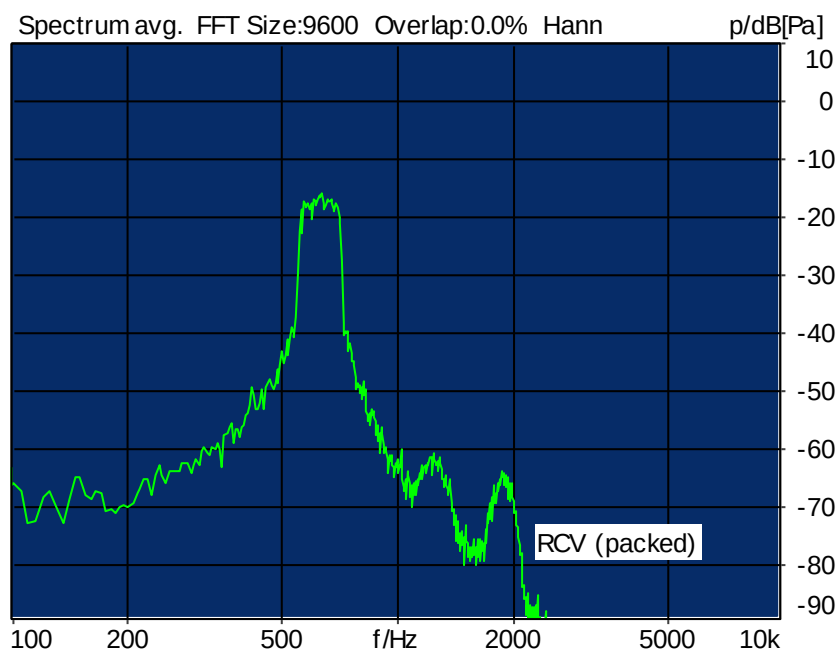
lower
20.00 dB



5.2 RCV Distortion and Noise - 630 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 29.78 dB (3.24%) Ok

Ok

2024-10-14 下午 09:17 ACQUA 6.1.100

Limits

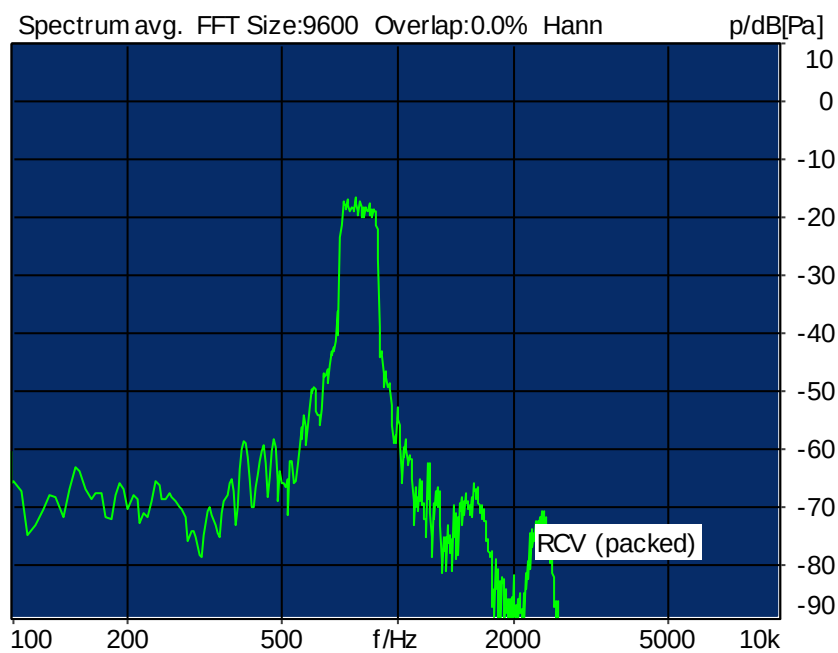
lower
20.00 dB



5.2 RCV Distortion and Noise - 800 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 32.51 dB (2.37%) Ok

Ok

2024-10-14 下午 09:18 ACQUA 6.1.100

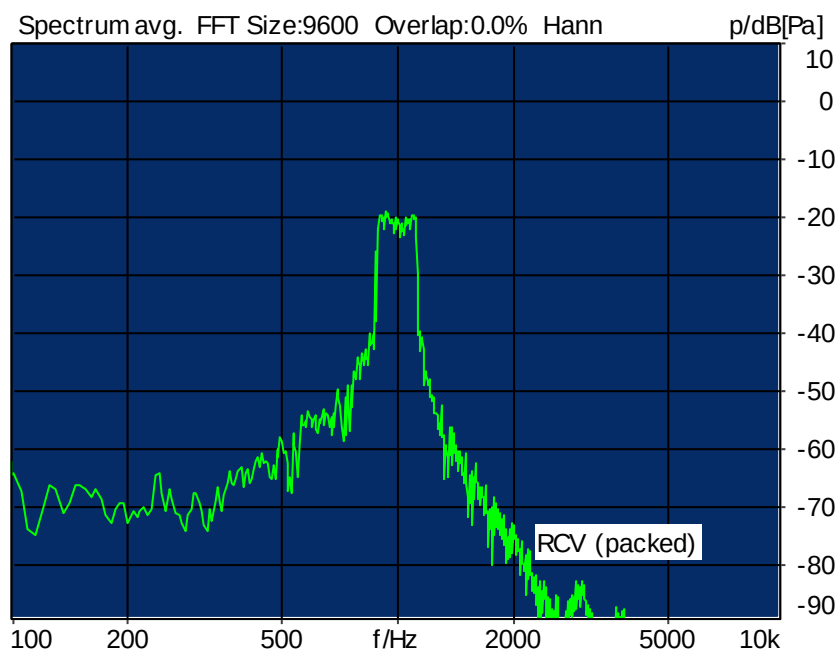
Limits

lower
20.00 dB

5.2 RCV Distortion and Noise - 1000 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 25.92 dB (5.06%) Ok

Ok

2024-10-14 下午 09:18 ACQUA 6.1.100

Limits

lower

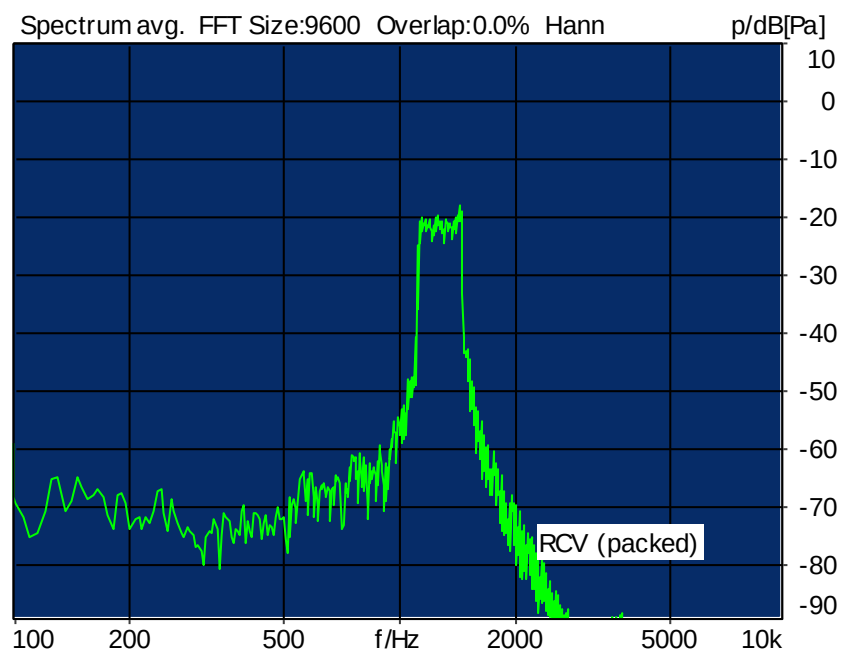
20.00 dB



5.2 RCV Distortion and Noise - 1250 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 25.03 dB (5.60%) Ok

Ok

2024-10-14 下午 09:19 ACQUA 6.1.100

Limits

lower

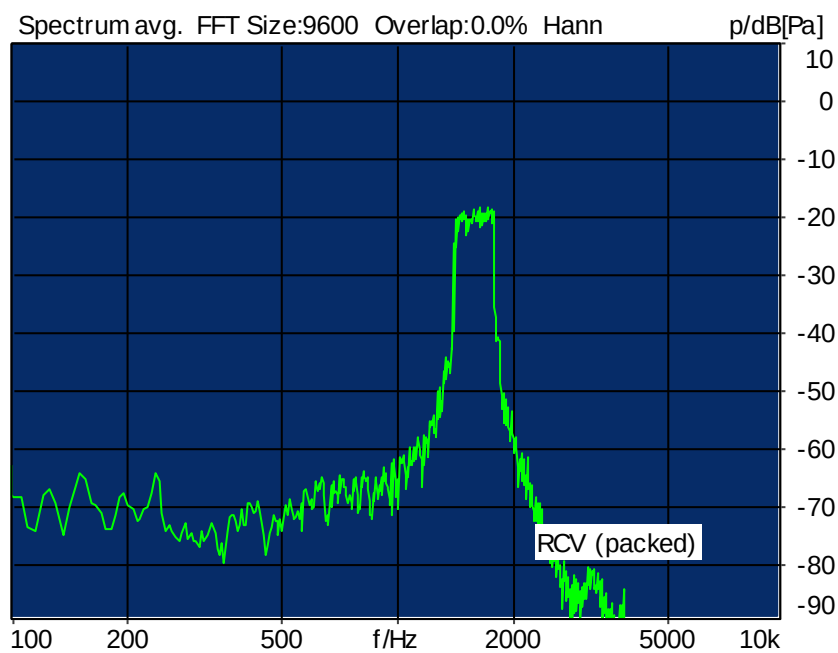
20.00 dB



5.2 RCV Distortion and Noise - 1600 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 28.14 dB (3.92%) Ok

Ok

2024-10-14 下午 09:19 ACQUA 6.1.100

Limits

lower

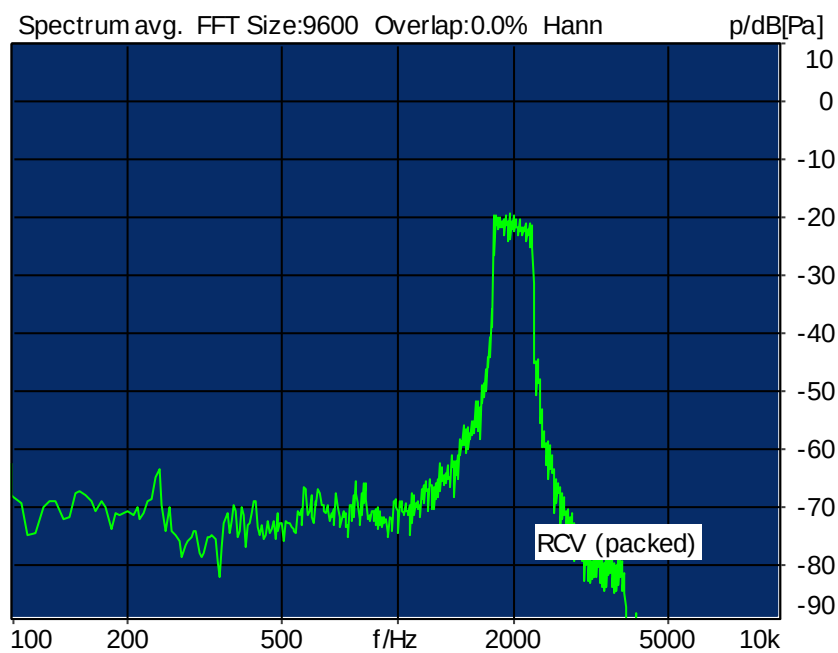
20.00 dB



5.2 RCV Distortion and Noise - 2000 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



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

Ok

2024-10-14 下午 09:20 ACQUA 6.1.100

Limits

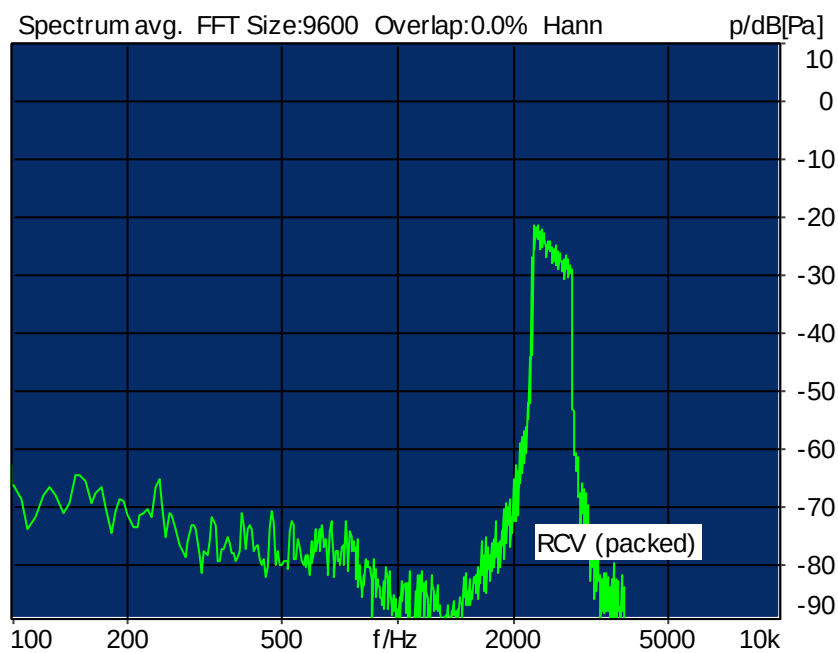
lower
20.00 dB



5.2 RCV Distortion and Noise - 2500 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 34.55 dB (1.87%) Ok

Ok

2024-10-14 下午 09:20 ACQUA 6.1.100

Limits

lower

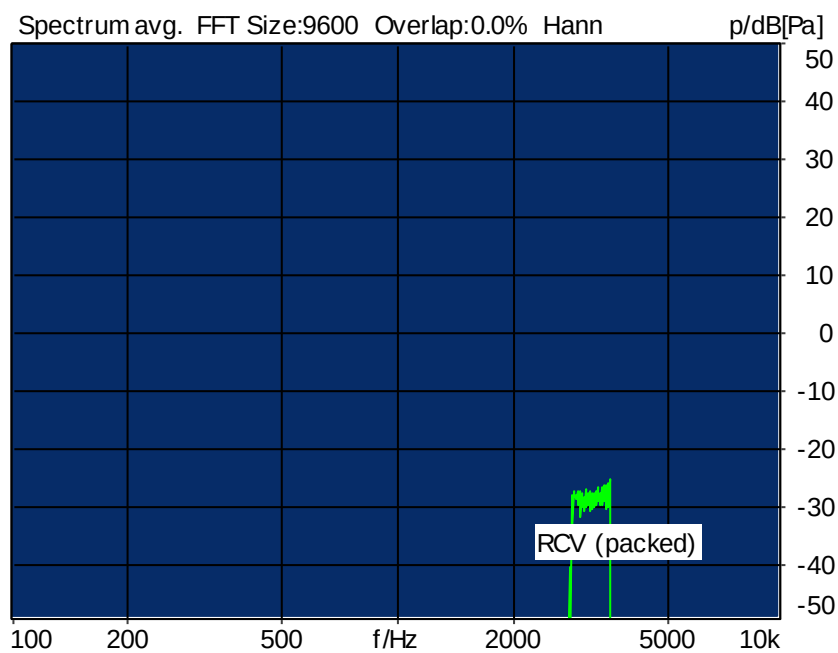
20.00 dB



5.2 RCV Distortion and Noise - 3150 Hz NB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Distortion (Noise) RCV (packed): 37.46 dB (1.34%) Ok

Ok

2024-10-14 下午 09:21 ACQUA 6.1.100

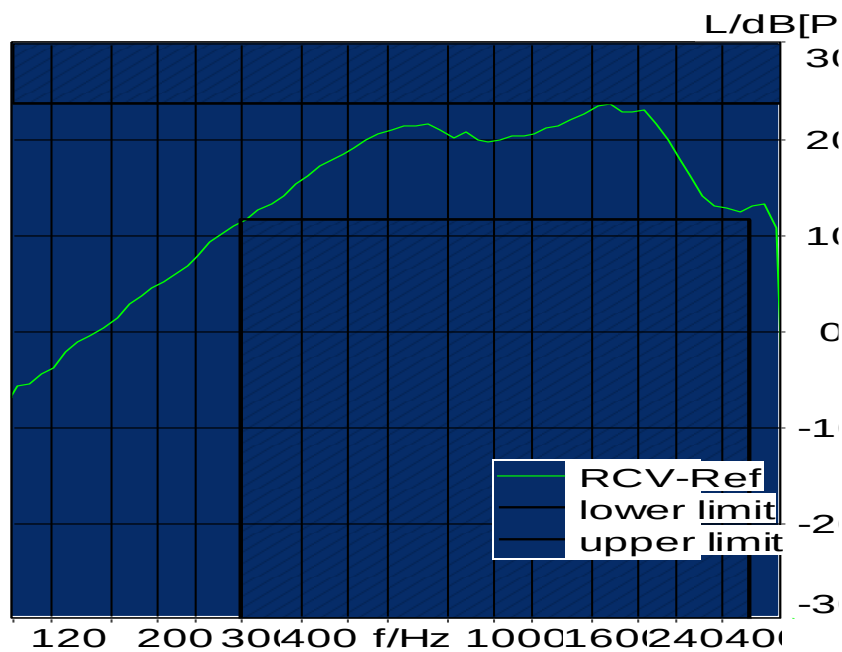
Limits

lower
20.00 dB

5.3 Frequency Response 8N FF HANB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Absolute minimal distance

0.05 dB at 1747.8 Hz Ok

Ok

2024-10-14 下午 09:54 ACQUA 6.1.100

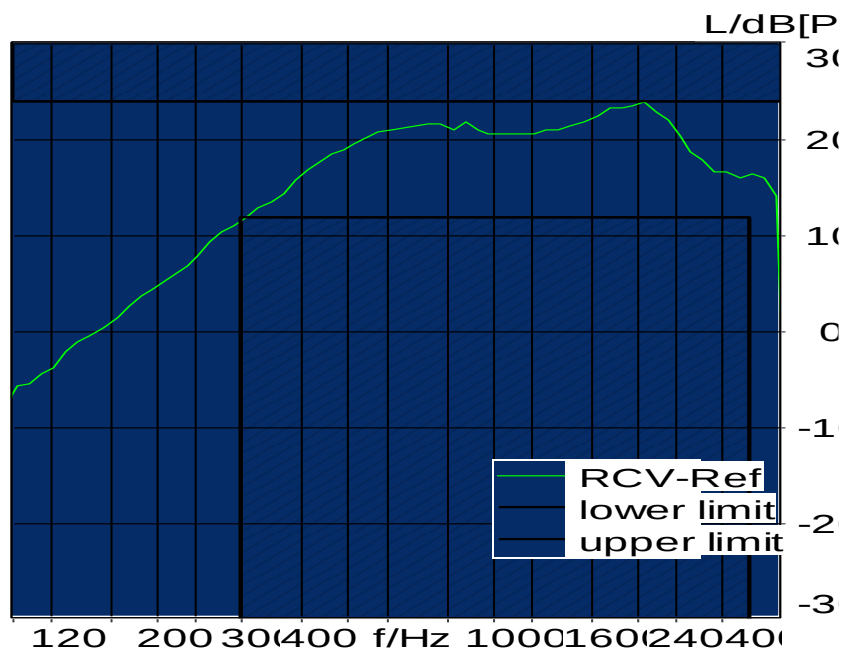
Limits

lower
Fit into tolerance

5.3 Frequency Response 8N DF HANB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Absolute minimal distance

0.03 dB at 2057.5 Hz Ok

Ok

2024-10-14 下午 09:54 ACQUA 6.1.100

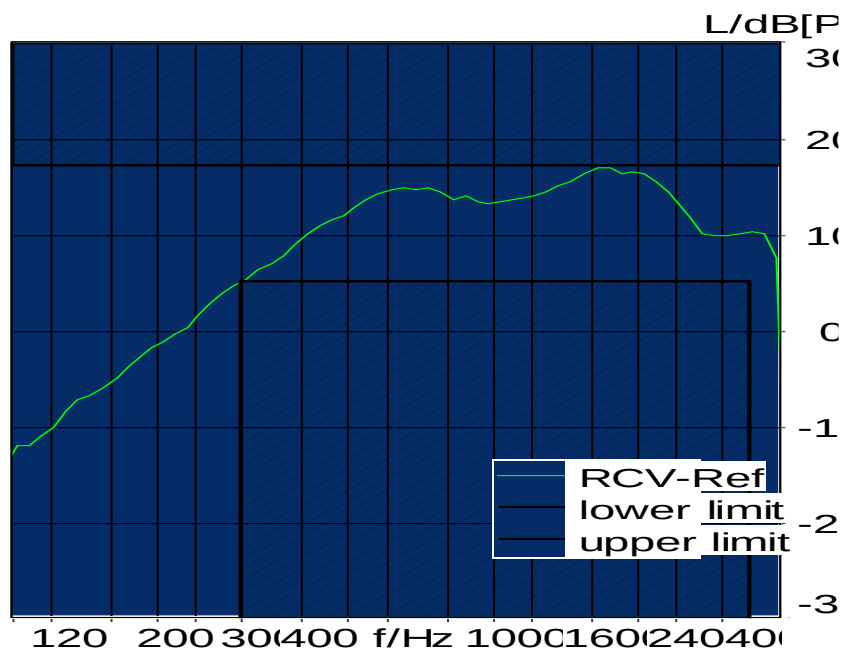
Limits

lower
Fit into tolerance

5.3 Frequency Response 2N FF HANB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Absolute minimal distance

0.13 dB at 1647.8 Hz Ok

Ok

2024-10-14 下午 09:05 ACQUA 6.1.100

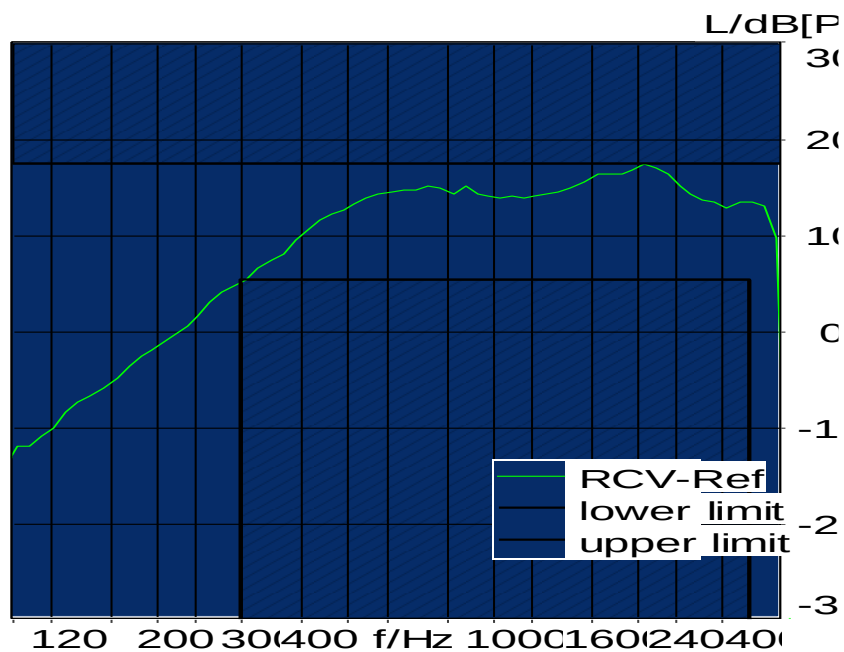
Limits

lower
Fit into tolerance

5.3 Frequency Response 2N DF HANB

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

MAX vol_0,0,5 / 0,0 CT37_Audiopara_updated for hac(1)



Absolute minimal distance

0.03 dB at 2057.5 Hz Ok

Ok

2024-10-14 下午 09:06 ACQUA 6.1.100

Limits

lower
Fit into tolerance



<Evaluation results for KDB 285076 D05 2.b>



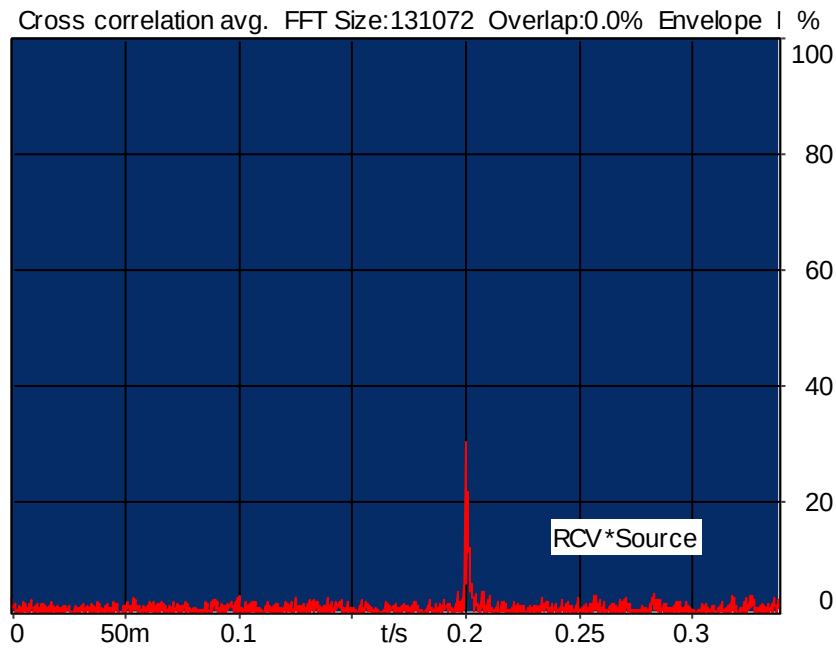
#2 WiFi 6GHz AMR NB 4.75kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	200.5
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.50
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.04

Overall Receive Delay NB

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

MAX vol_0,0,5 / 0,0



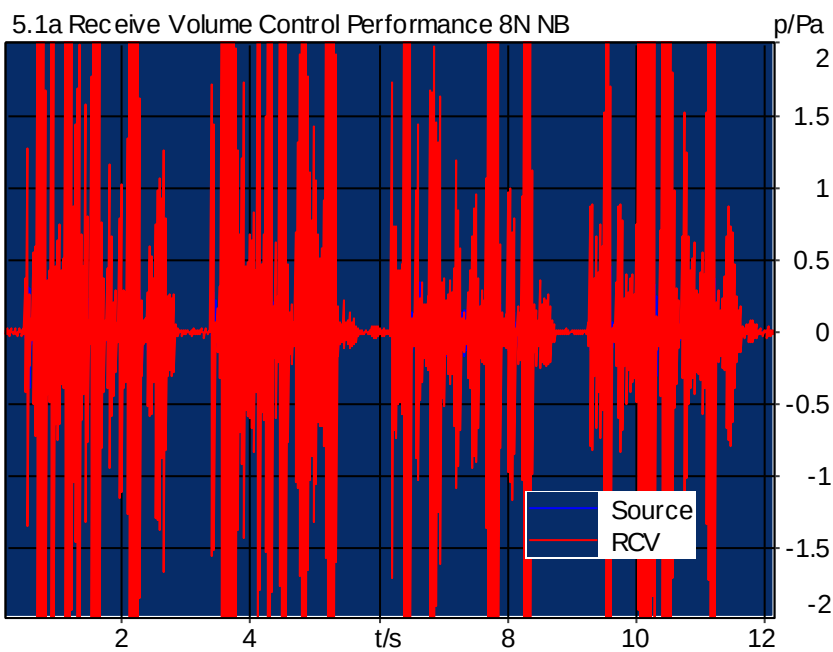
Channel	Delay	Correlation
RCV*Source	200.5 ms	30.15 %

2024-10-11 下午 10:19 ACQUA 6.1.100

5.1a Receive Volume Control Performance 8N NB

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

MAX vol_0,0,5 / 0,0



Channel	Speech level	Activity	
RCV	89.50 dB[SPL]	79.92%	Ok

Ok

2024-10-11 下午 10:20 ACQUA 6.1.100

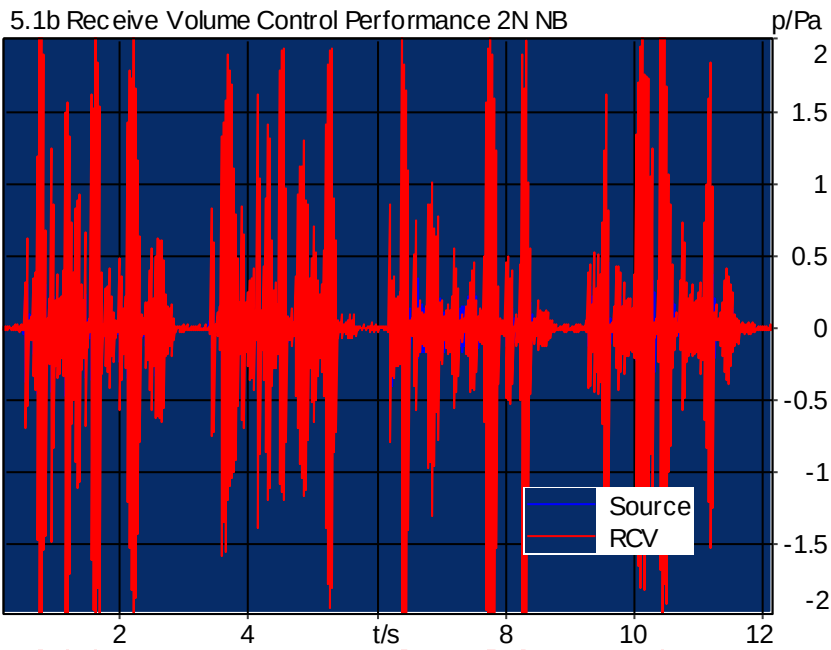
Limits

lower
76.00 dB[SPL]

5.1b Receive Volume Control Performance 2N NB

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

MAX vol_0,0,5 / 0,0



Channel	Speech level	Activity	
RCV	83.04 dB[SPL]	79.47%	Ok

Ok

2024-10-11 下午 10:19 ACQUA 6.1.100

Limits

lower
76.00 dB[SPL]