



Appendix A. Volume Control Evaluation Results

<Evaluation results for KDB 285076 D05 2.a>

#1 WiFi 6GHz EVS NB 24.4kbps

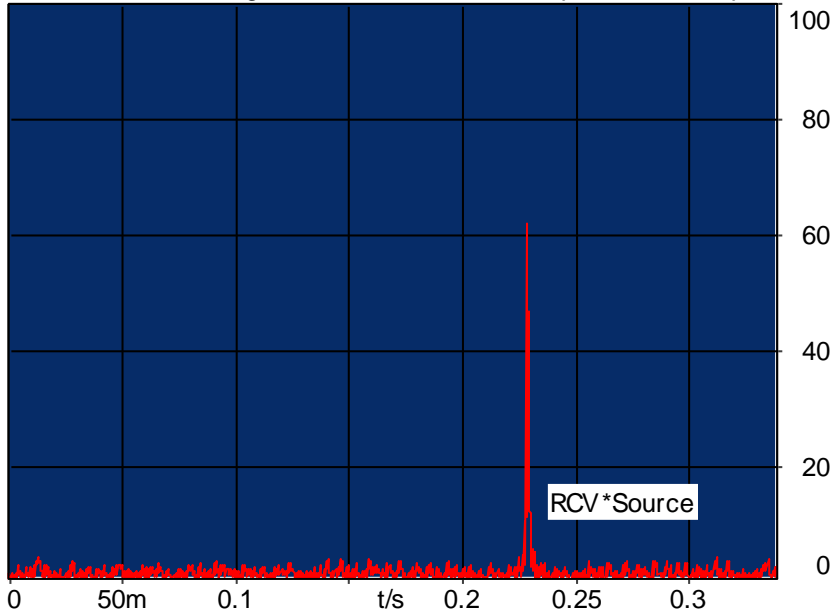
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	228.8
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	96.83
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	92.70
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.18
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.84
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.99
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.56
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.06
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.80
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.13
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.48
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.63
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.52
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.95
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.61
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.82
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.26
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.51
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.98
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.26
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.87
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.01
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.07
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.55
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	1.52



Overall Receive Delay NB

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

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



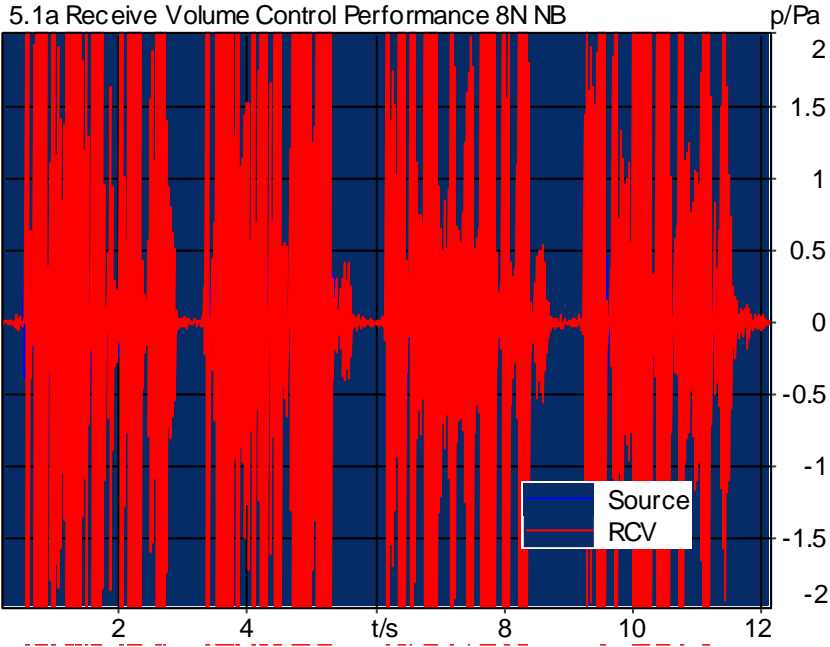
Channel	Delay	Correlation
RCV*Source	228.8 ms	62.08 %

2024-11-29 下午 05:31 ACQUA 6.1.100



5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	96.83 dB[SPL]	80.11%	Ok

Ok

2024-11-29 下午 05:32 ACQUA 6.1.100

Limits

lower
88.00 dB[SPL]



5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	92.70 dB[SPL]	79.89%	Ok

Ok

2024-11-29 下午 05:41 ACQUA 6.1.100

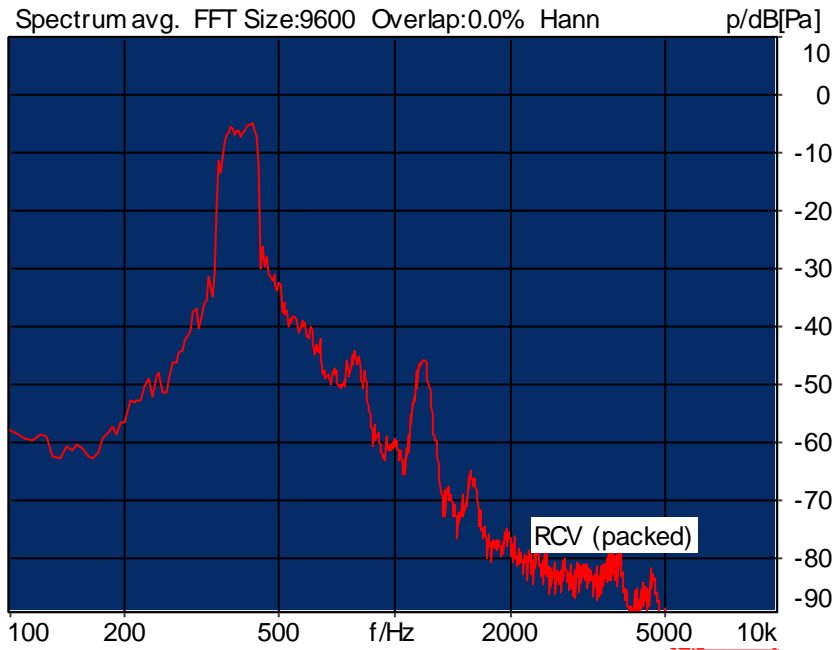
Limits

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



Distortion (Noise) RCV (packed): 30.18 dB (3.10%) Ok

Ok

2024-11-29 下午 05:32 ACQUA 6.1.100

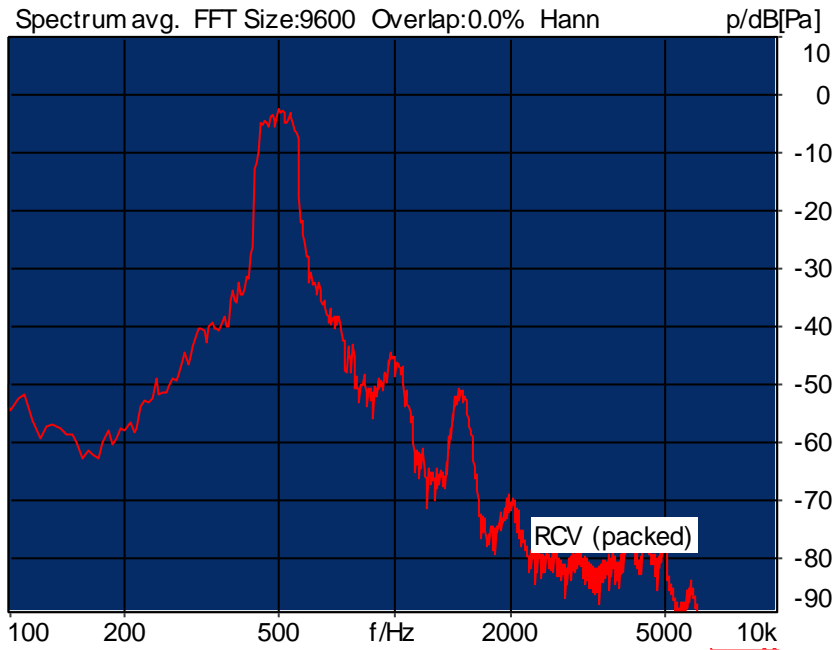
Limits

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



Distortion (Noise) RCV (packed): 30.84 dB (2.87%) Ok

Ok

2024-11-29 下午 05:33 ACQUA 6.1.100

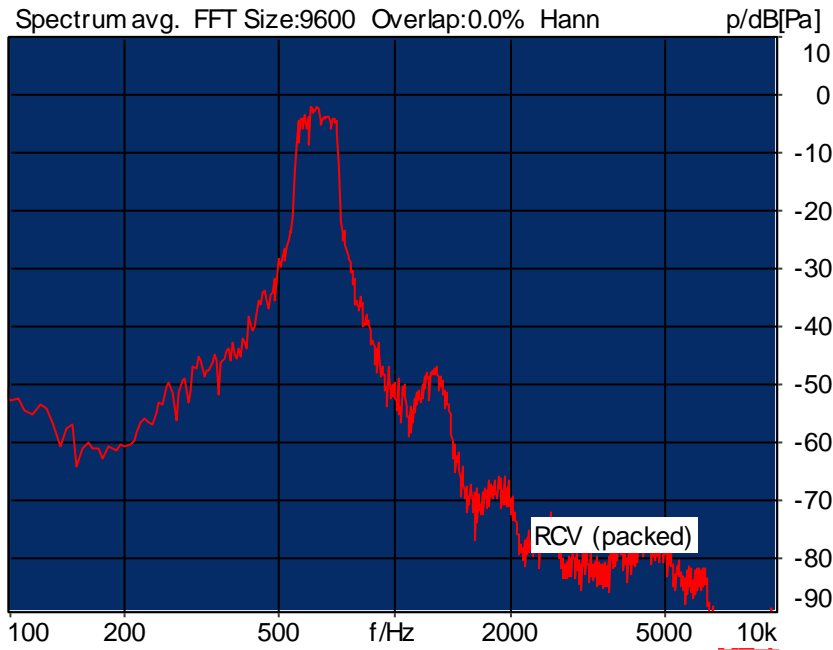
Limits

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



Distortion (Noise) RCV (packed): 28.99 dB (3.55%) Ok

Ok

2024-11-29 下午 05:34 ACQUA 6.1.100

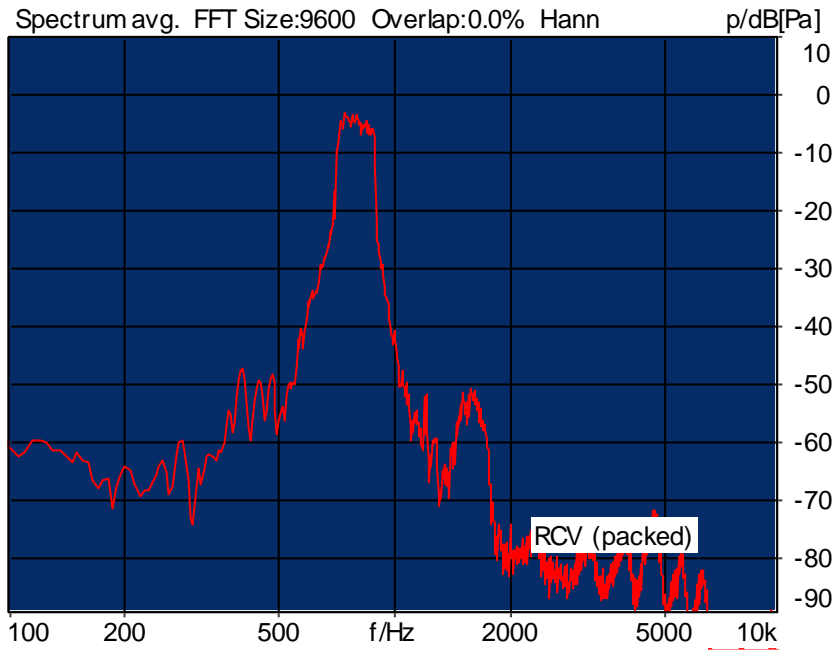
Limits

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



Distortion (Noise) RCV (packed): 29.56 dB (3.33%) Ok

Ok

2024-11-29 下午 05:34 ACQUA 6.1.100

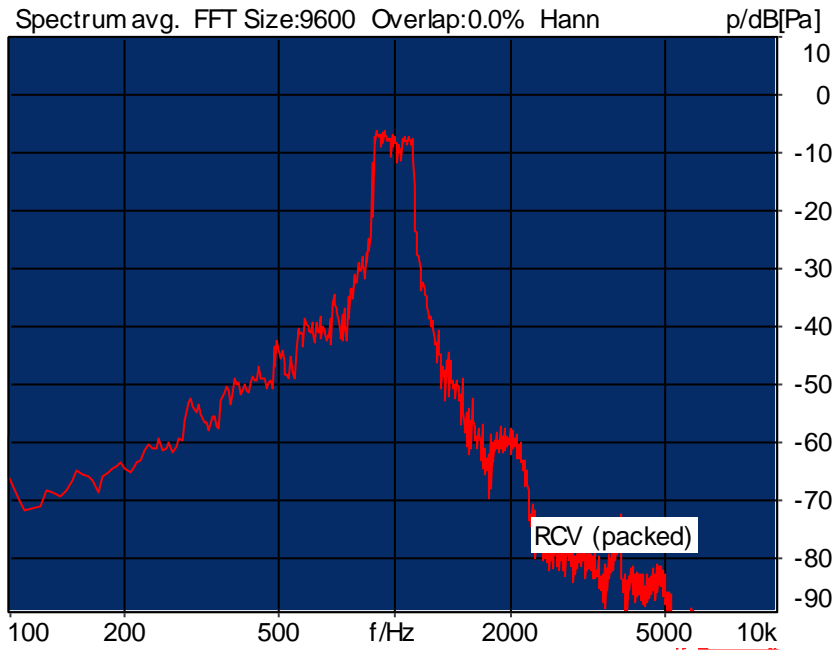
Limits

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



Distortion (Noise) RCV (packed): 25.06 dB (5.58%) Ok

Ok

2024-11-29 下午 05:35 ACQUA 6.1.100

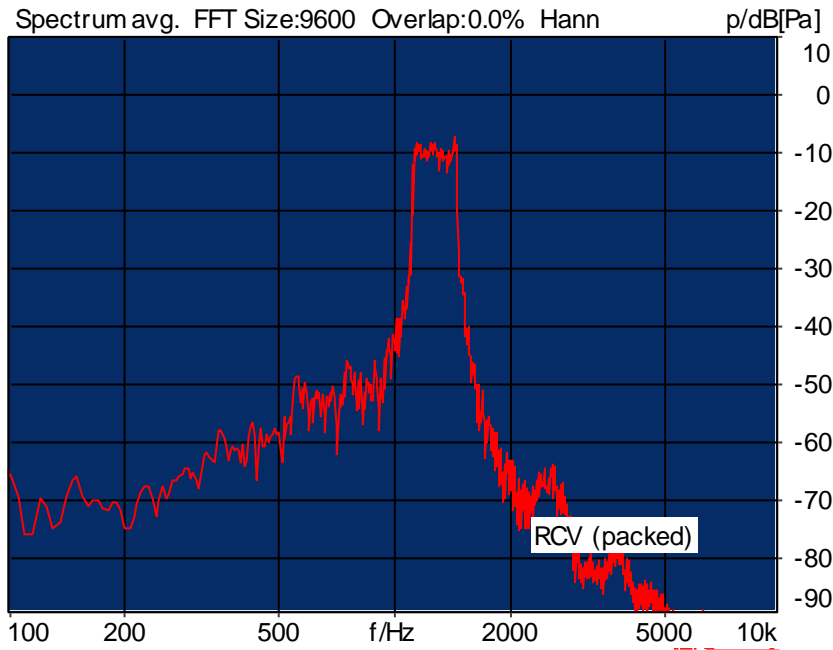
Limits

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



Distortion (Noise) RCV (packed): 23.80 dB (6.46%) Ok

Ok

2024-11-29 下午 05:35 ACQUA 6.1.100

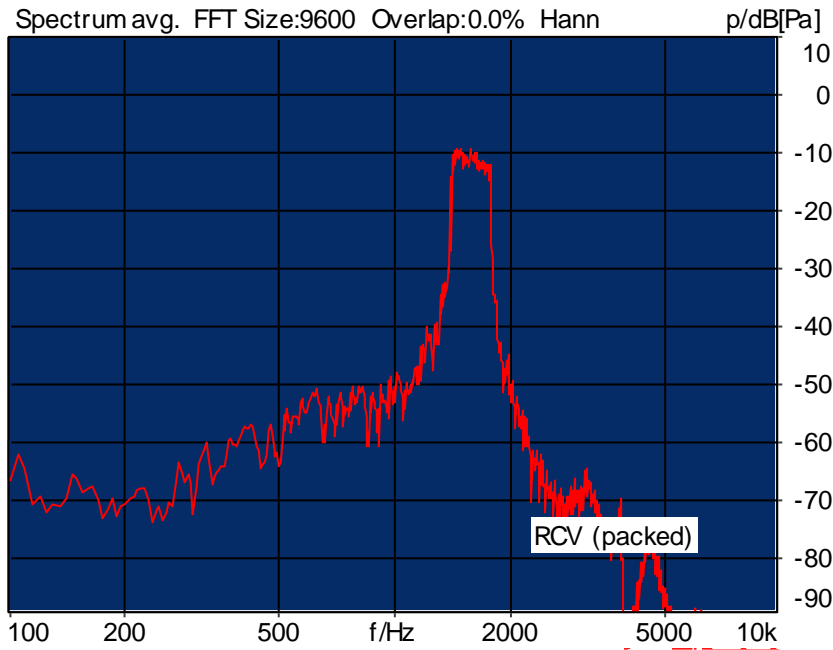
Limits

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



Distortion (Noise) RCV (packed): 27.13 dB (4.40%) Ok

Ok

2024-11-29 下午 05:36 ACQUA 6.1.100

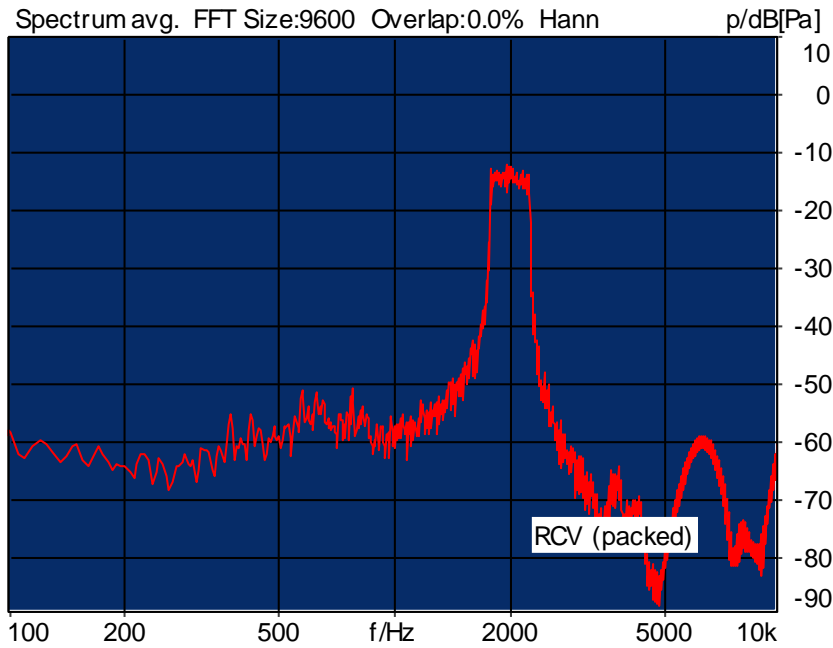
Limits

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



Distortion (Noise) RCV (packed): 26.48 dB (4.74%) Ok

Ok

2024-11-29 下午 05:37 ACQUA 6.1.100

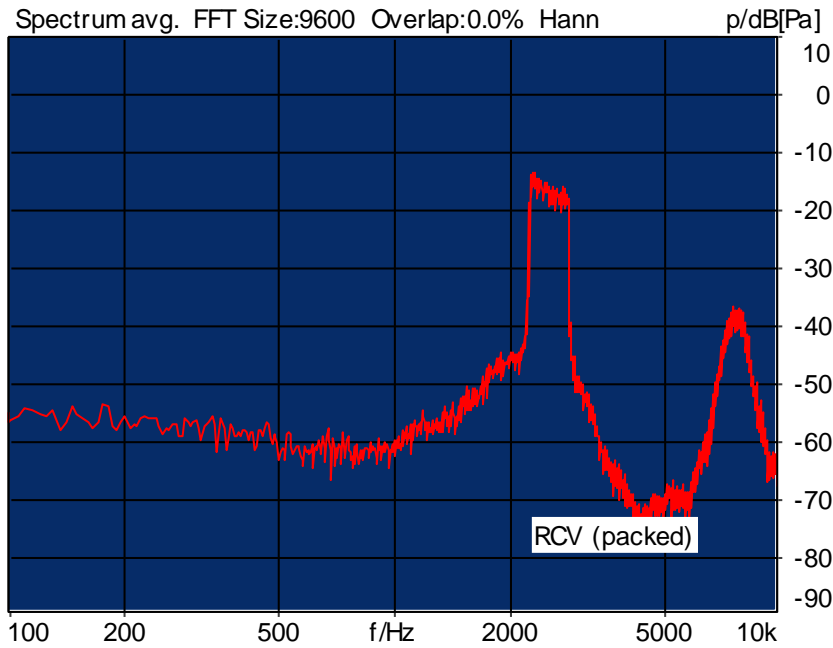
Limits

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



Distortion (Noise) RCV (packed): 20.63 dB (9.30%) Ok

Ok

2024-12-02 上午 11:09 ACQUA 6.1.100

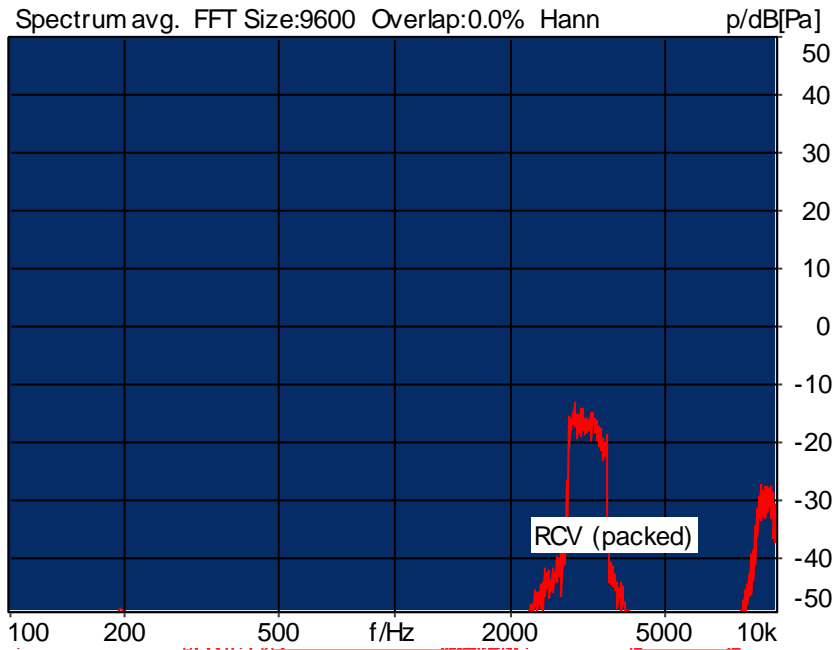
Limits

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



Distortion (Noise) RCV (packed): 23.52 dB (6.67%) Ok

Ok

2024-11-29 下午 05:38 ACQUA 6.1.100

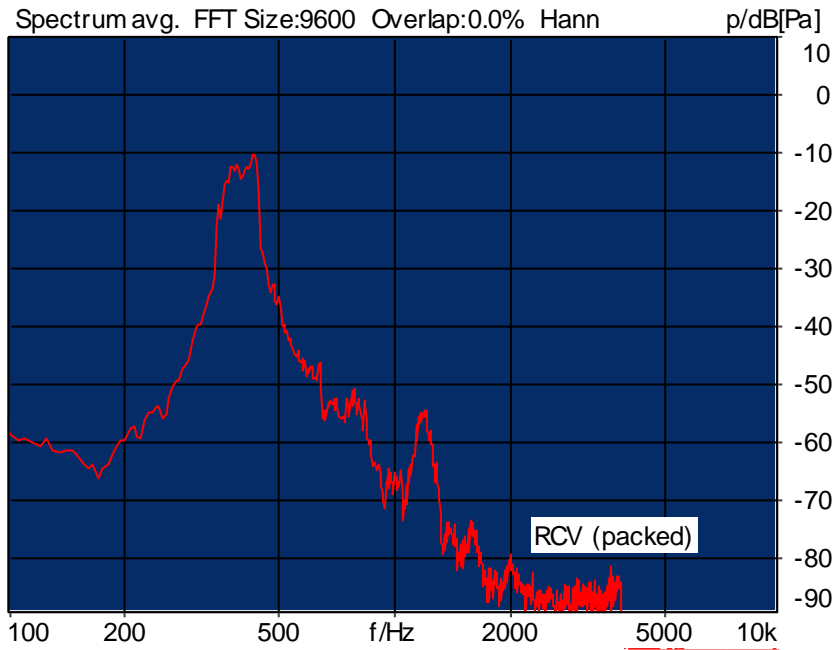
Limits

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



Distortion (Noise) RCV (packed): 27.95 dB (4.00%) Ok

Ok

2024-11-29 下午 05:42 ACQUA 6.1.100

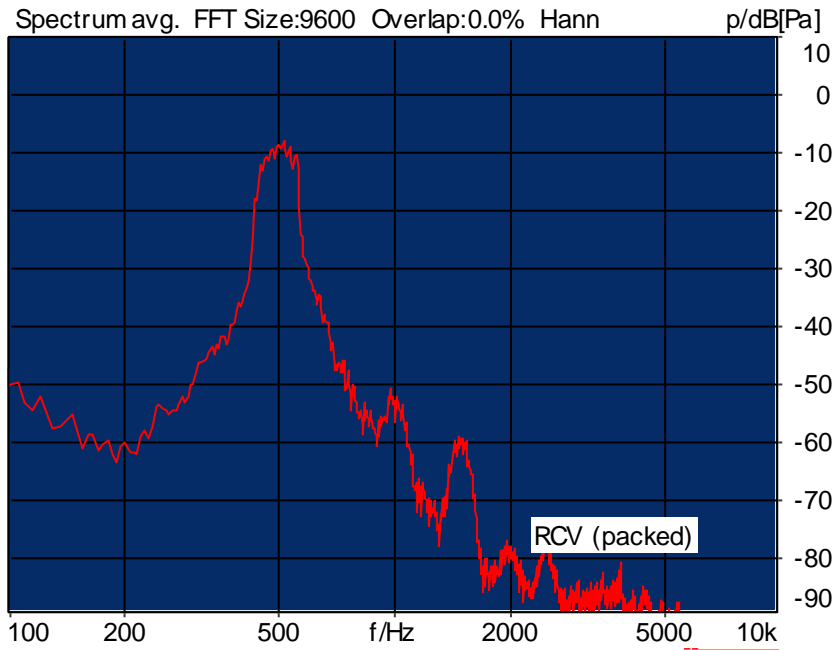
Limits

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



Distortion (Noise) RCV (packed): 27.61 dB (4.16%) Ok

Ok

2024-11-29 下午 05:43 ACQUA 6.1.100

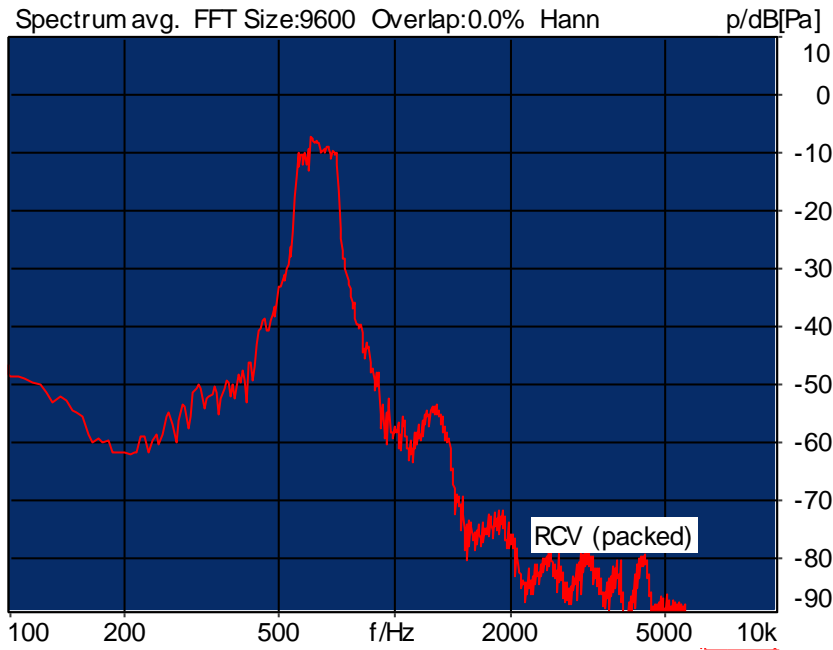
Limits

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



Distortion (Noise) RCV (packed): 27.82 dB (4.07%) Ok

Ok

2024-11-29 下午 05:43 ACQUA 6.1.100

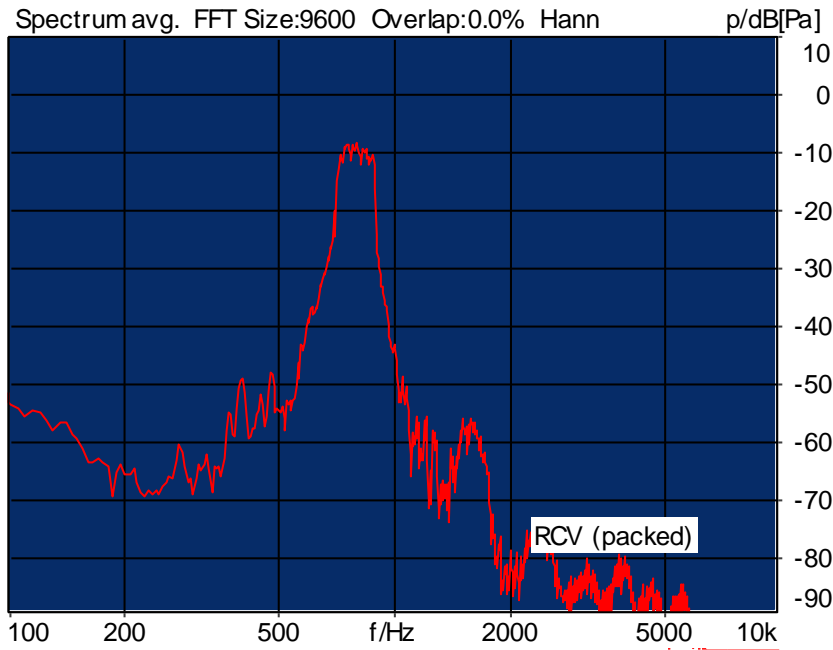
Limits

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



Distortion (Noise) RCV (packed): 27.26 dB (4.34%) Ok

Ok

2024-11-29 下午 05:44 ACQUA 6.1.100

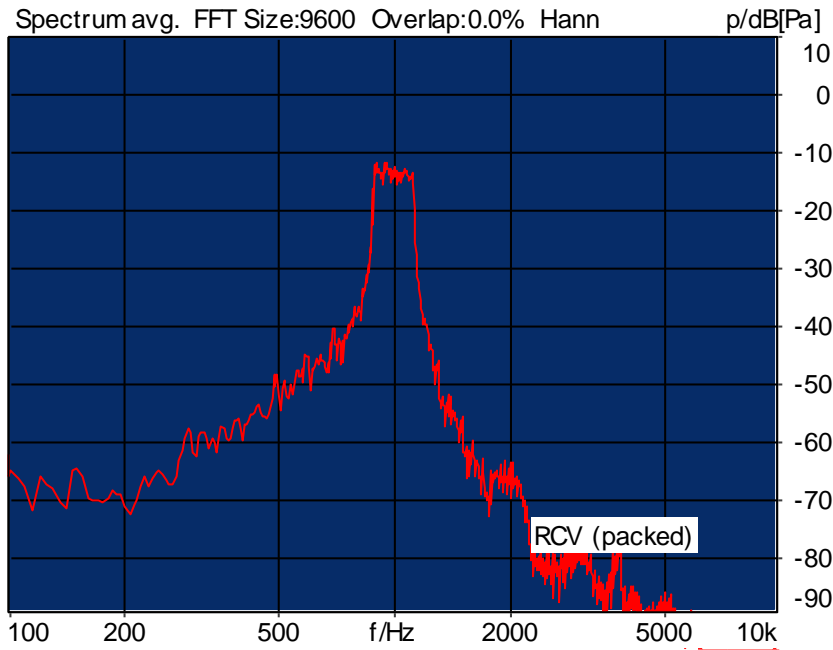
Limits

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



Distortion (Noise) RCV (packed): 24.51 dB (5.95%) Ok

Ok

2024-11-29 下午 05:44 ACQUA 6.1.100

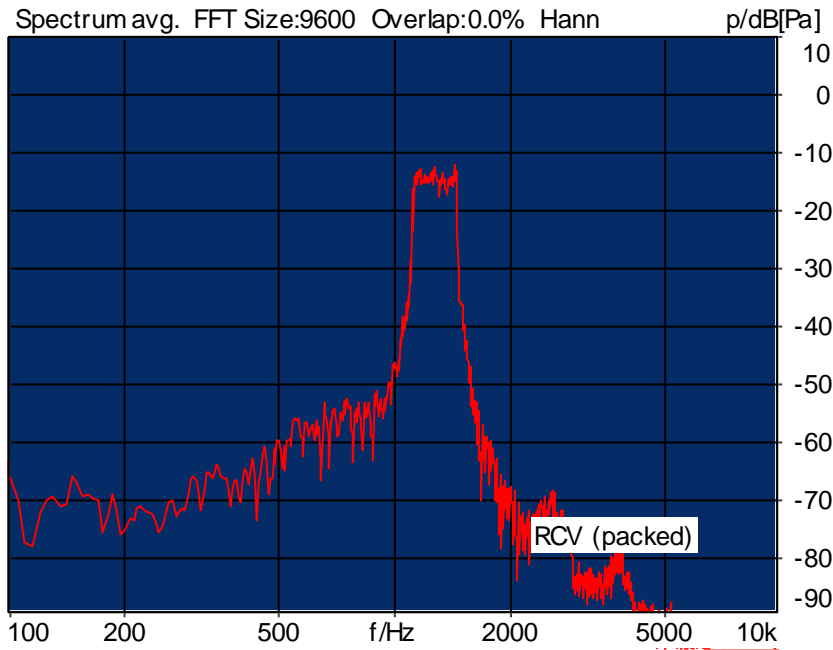
Limits

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



Distortion (Noise) RCV (packed): 22.98 dB (7.09%) Ok

Ok

2024-11-29 下午 05:45 ACQUA 6.1.100

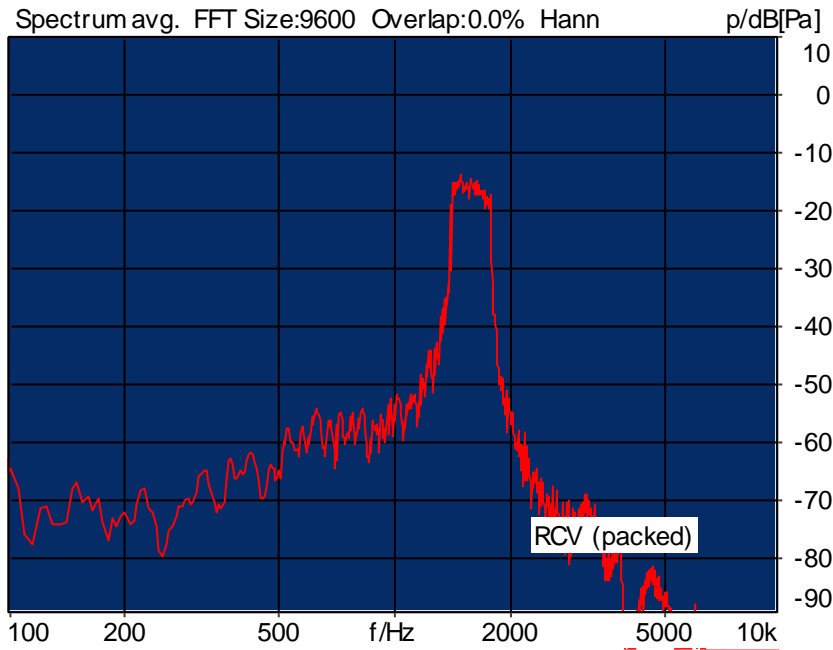
Limits

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



Distortion (Noise) RCV (packed): 26.26 dB (4.86%) Ok

Ok

2024-11-29 下午 05:45 ACQUA 6.1.100

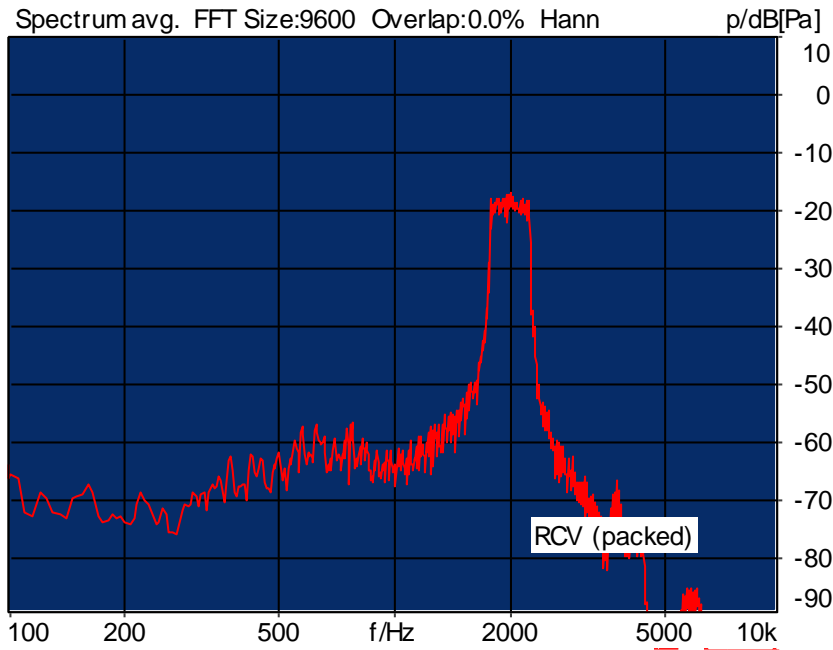
Limits

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



Distortion (Noise) RCV (packed): 25.87 dB (5.09%) Ok

Ok

2024-11-29 下午 05:46 ACQUA 6.1.100

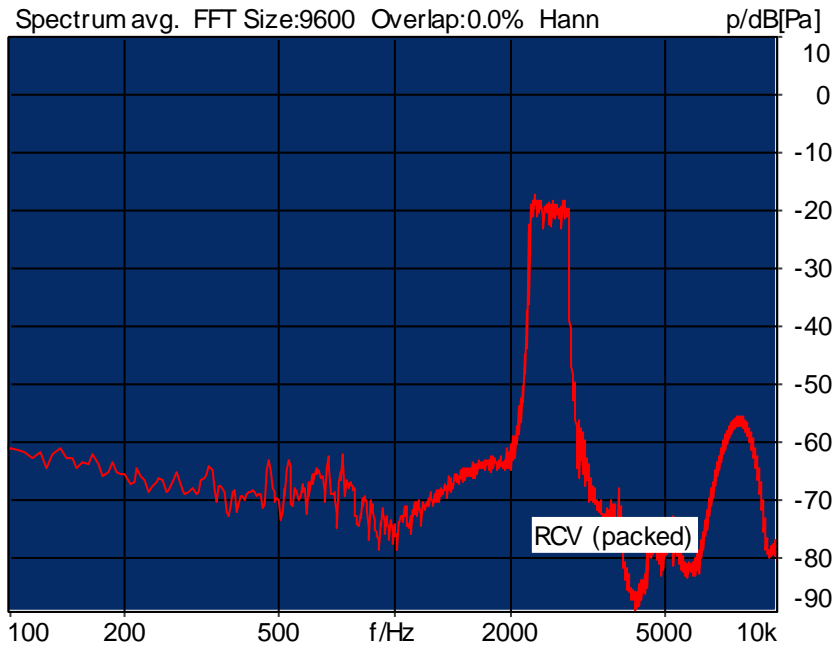
Limits

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



Distortion (Noise) RCV (packed): 30.01 dB (3.16%) Ok

Ok

2024-11-29 下午 05:47 ACQUA 6.1.100

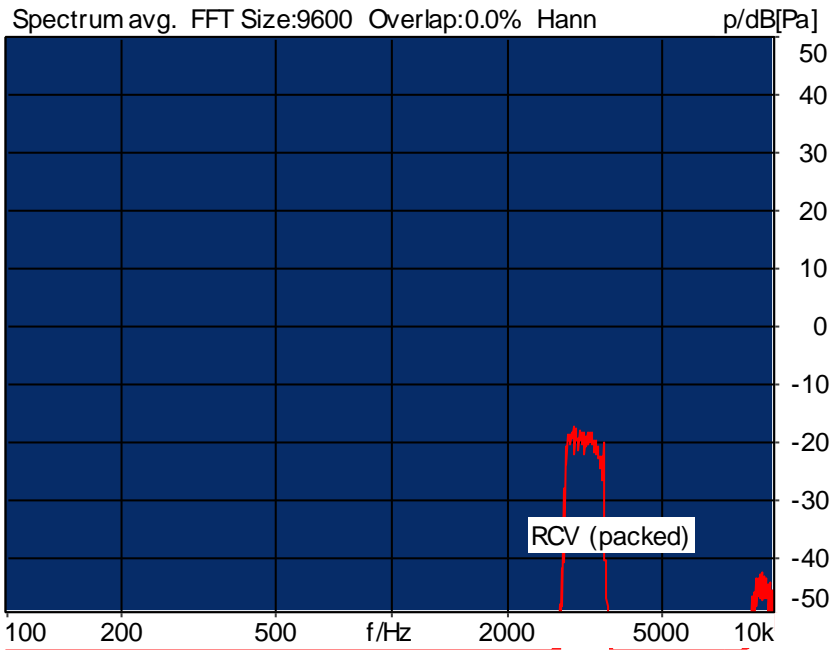
Limits

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



Distortion (Noise) RCV (packed): 31.07 dB (2.79%) Ok

Ok

2024-11-29 下午 05:47 ACQUA 6.1.100

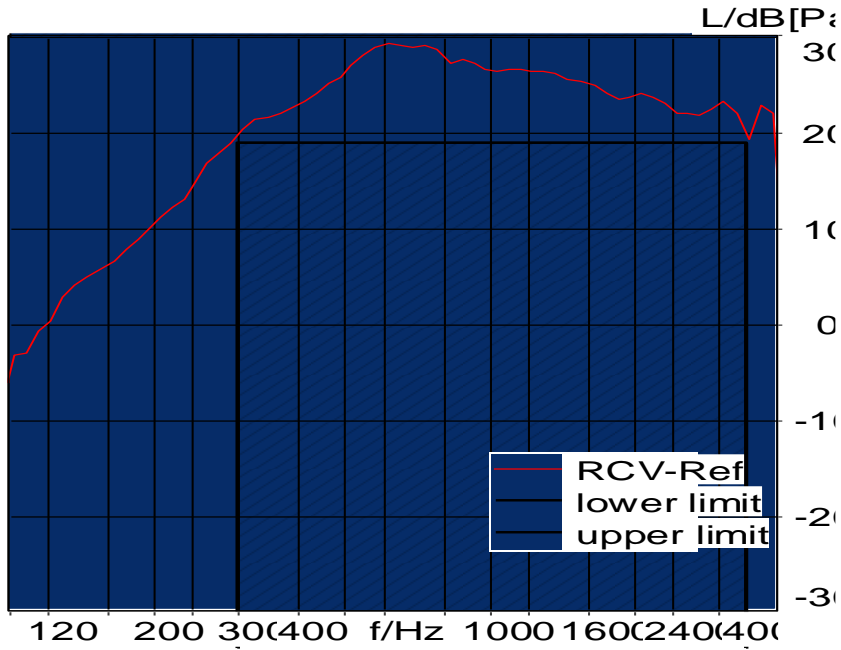
Limits

lower
20.00 dB



5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

1.55 dB at 611.7 Hz Ok

Ok

2024-11-29 下午 05:38 ACQUA 6.1.100

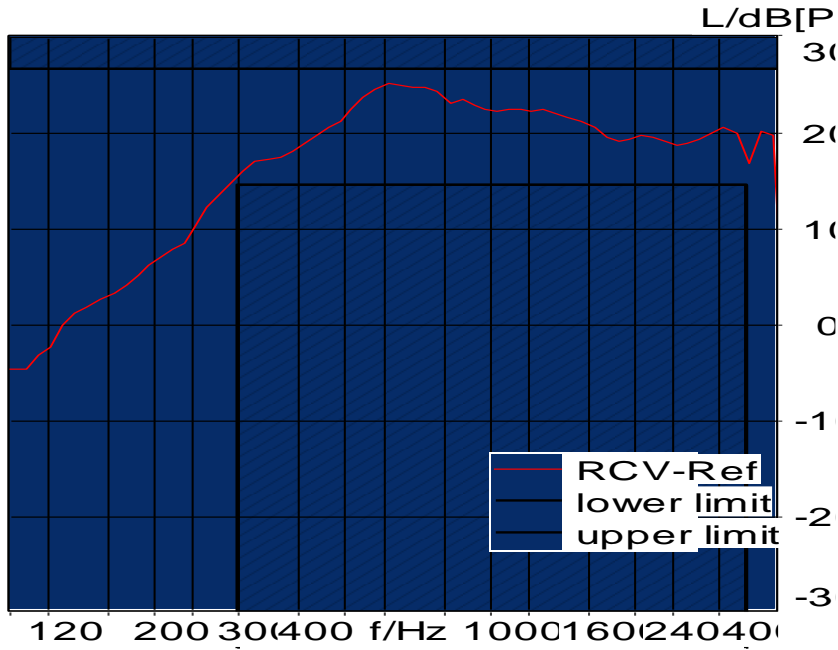
Limits

lower
Fit into tolerance



5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

1.52 dB at 305.9 Hz Ok

Ok

2024-11-29 下午 05:48 ACQUA 6.1.100

Limits

lower
Fit into tolerance



<Evaluation results for KDB 285076 D05 2.b>

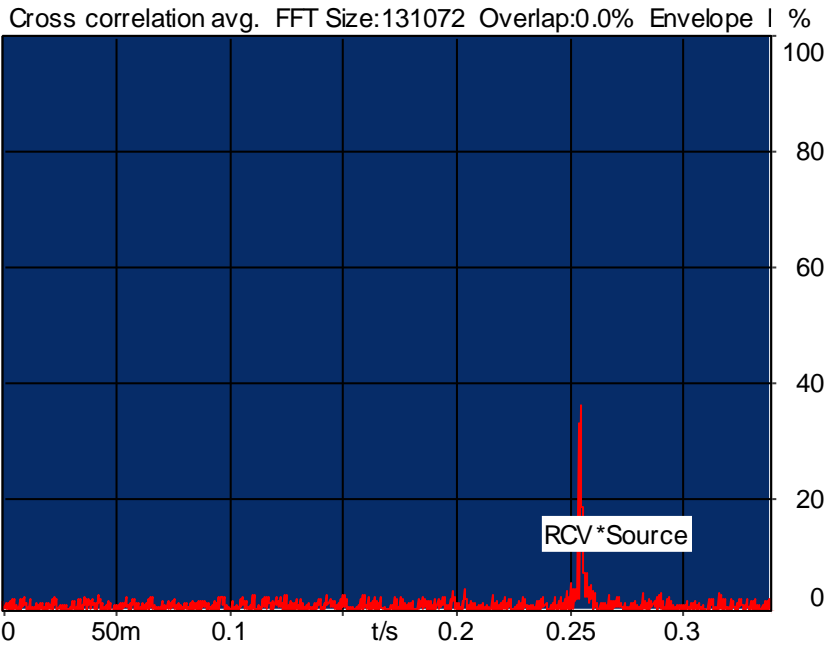
#2 WiFi 6GHz EVS WB 5.9kbps

SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	255.0
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	95.19
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	89.50



Overall Receive Delay WB

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



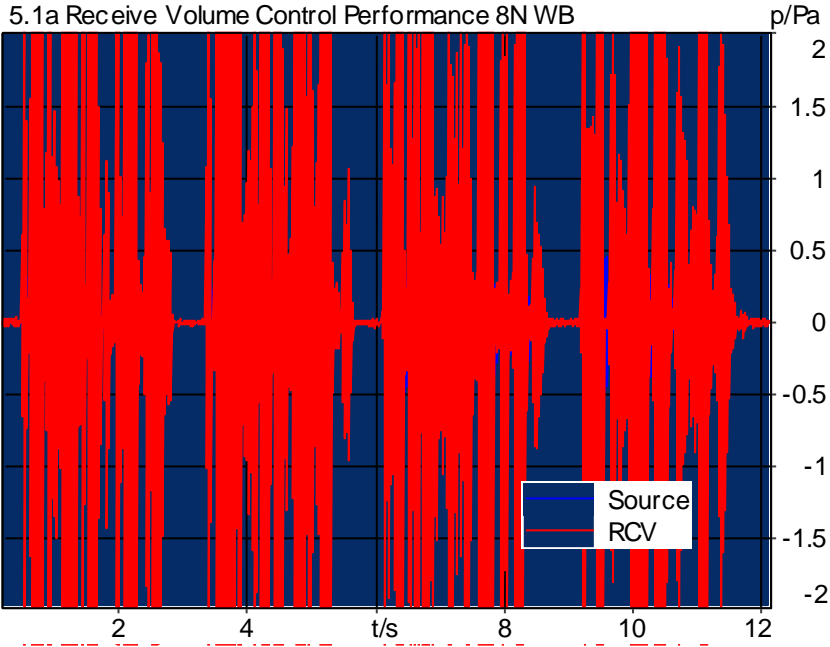
Channel	Delay	Correlation
RCV*Source	255.0 ms	36.14 %

2024-11-29 下午 08:42 ACQUA 6.1.100



5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	95.19 dB[SPL]	80.47%	Ok

Ok

2024-11-29 下午 08:43 ACQUA 6.1.100

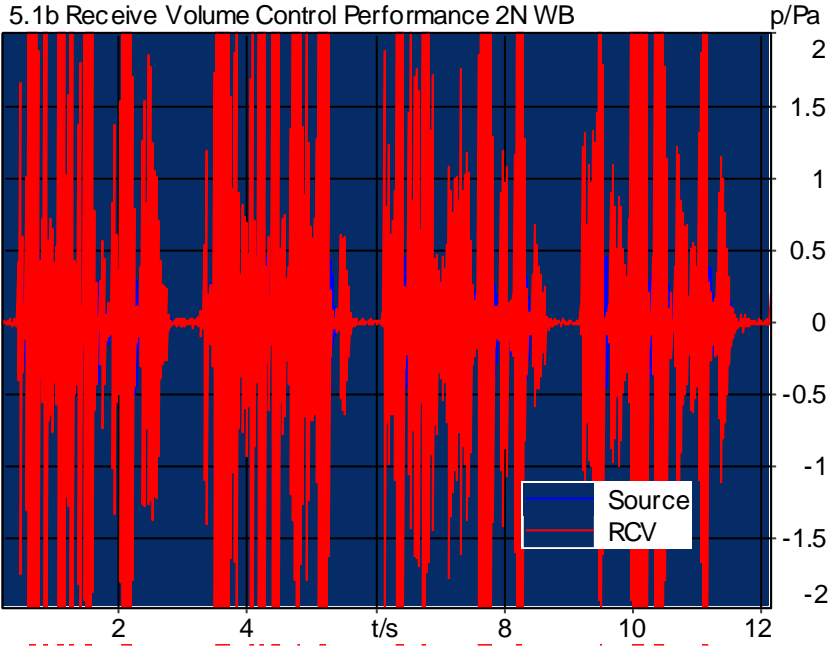
Limits

lower
76.00 dB[SPL]



5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	89.50 dB[SPL]	83.77%	Ok

Ok

2024-11-29 下午 08:44 ACQUA 6.1.100

Limits

lower
76.00 dB[SPL]