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**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]	172.1
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	87.74
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.56
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.79
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.67
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.05
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.09
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.93
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.54
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.03
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.87
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.91
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.71
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.97
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.60
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.09
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.46
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.11
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.86
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.91
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.91
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.03
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.28
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	2.26
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1547.5 Hz	2.30

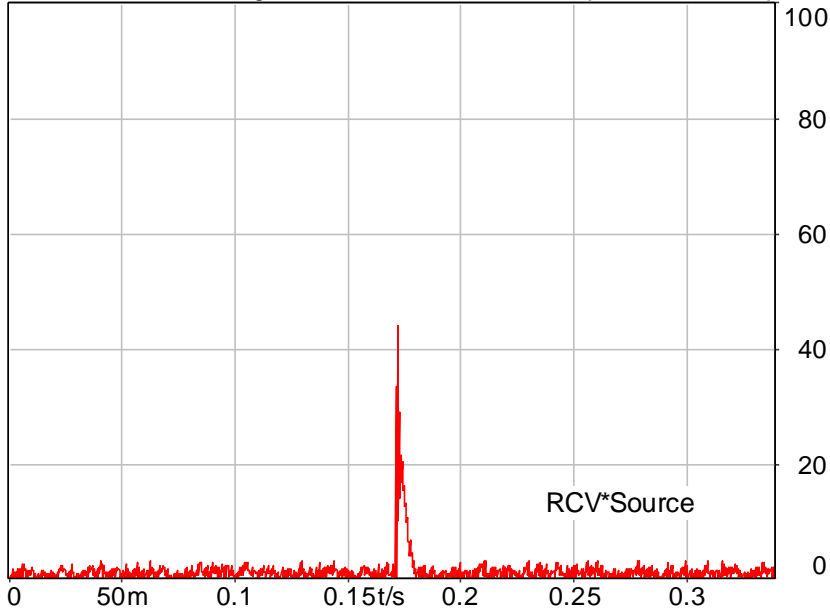


### Overall Receive Delay NB

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

114dB

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



Channel	Delay
RCV*Source	172.1 ms

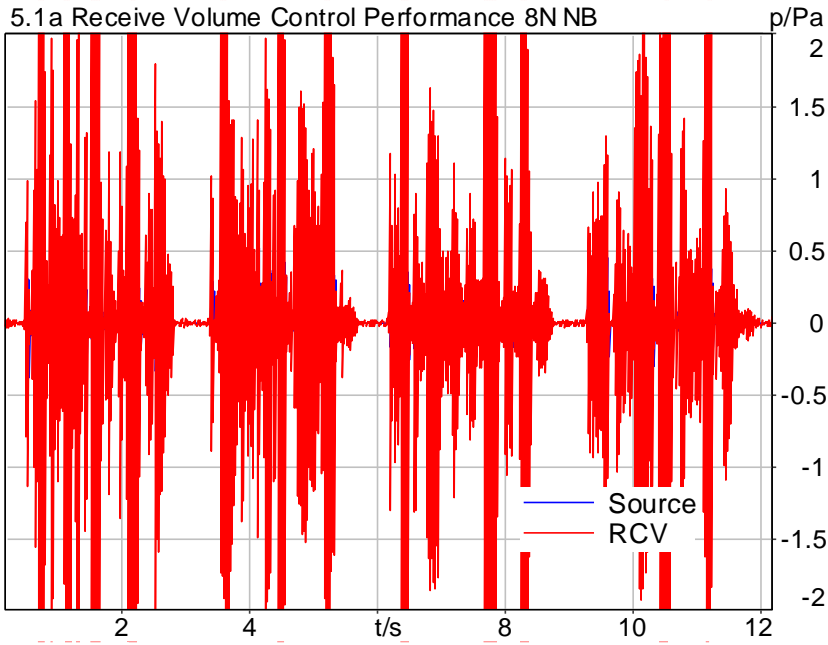
2024-08-02 上午 01:03 ACQUA 6.0.200



### 5.1a Receive Volume Control Performance 8N NB

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

114dB



Channel	Speech level	Activity	
RCV	87.74 dB[SPL]	81.75%	Ok

Ok

2024-08-02 上午 01:05 ACQUA 6.0.200

#### Limits

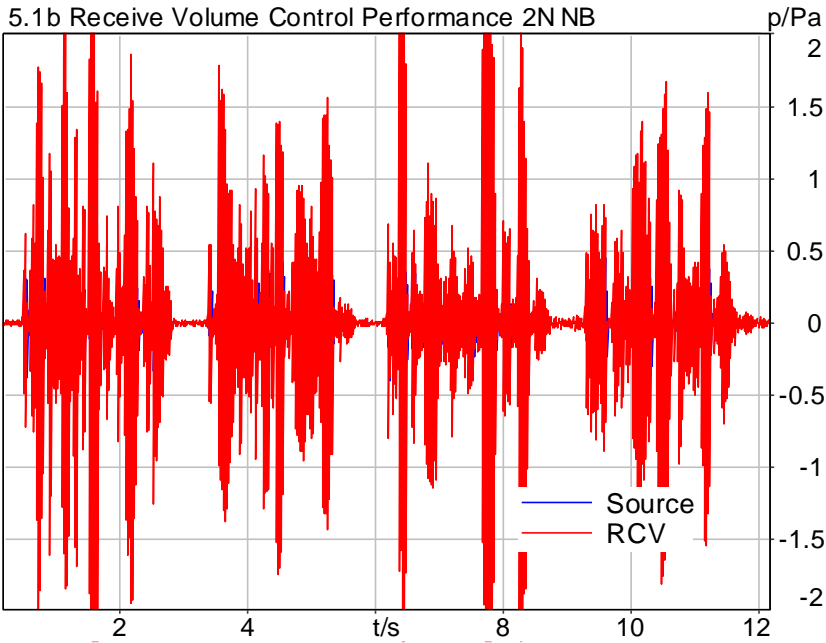
	lower
Run 1	76.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

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

114dB



Channel	Speech level	Activity	
RCV	83.56 dB[SPL]	82.71%	Ok

Ok

2024-08-02 上午 01:06 ACQUA 6.0.200

#### Limits

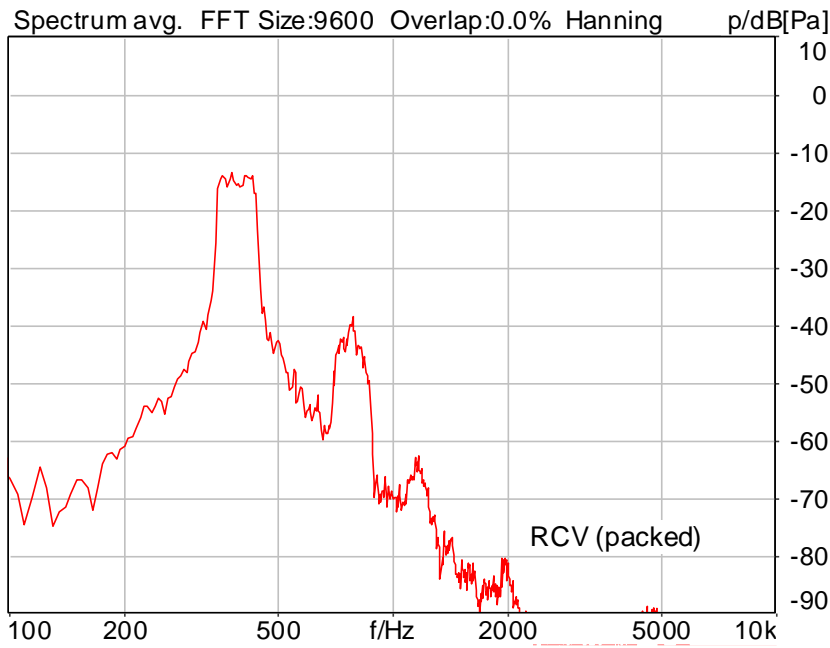
	lower
Run 1	76.00 dB20uPa



### 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

114dB



Distortion (Noise) RCV (packed): 25.79 dB (5.13%) Ok

Ok

2024-08-02 上午 01:19 ACQUA 6.0.200

Limits

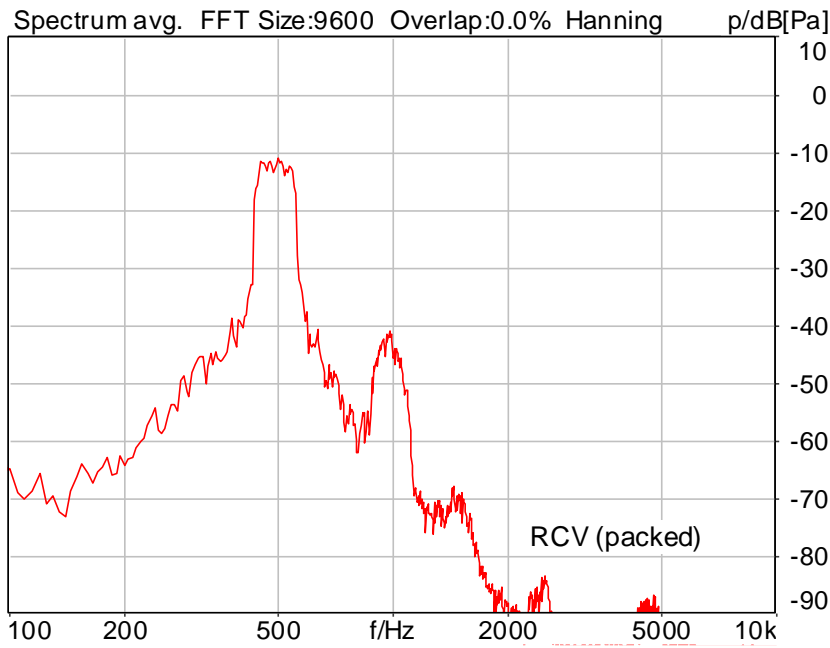
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 27.67 dB (4.14%) Ok

Ok

2024-08-02 上午 01:20 ACQUA 6.0.200

Limits

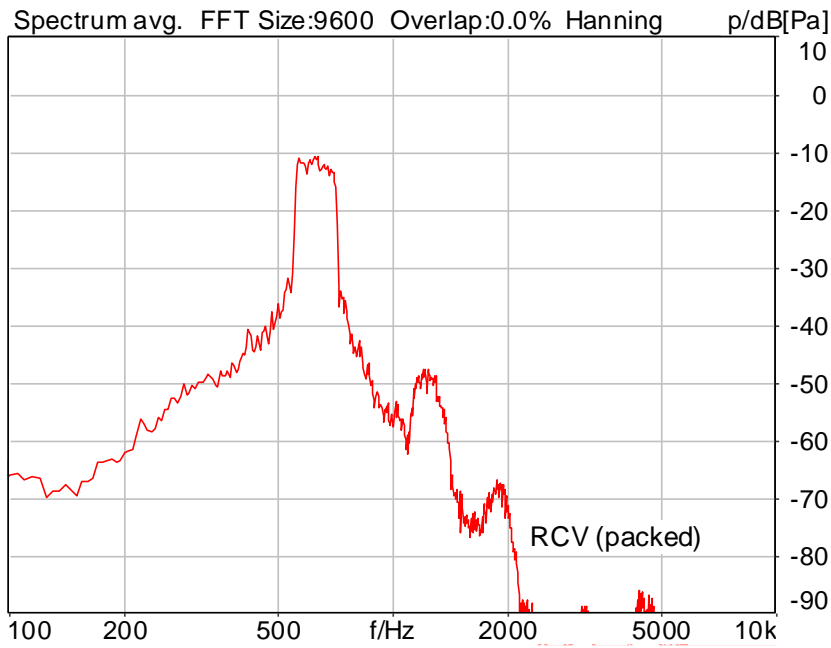
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 28.05 dB (3.96%) Ok

Ok

2024-08-02 上午 01:20 ACQUA 6.0.200

Limits

	lower
Run 1	20.00 dB

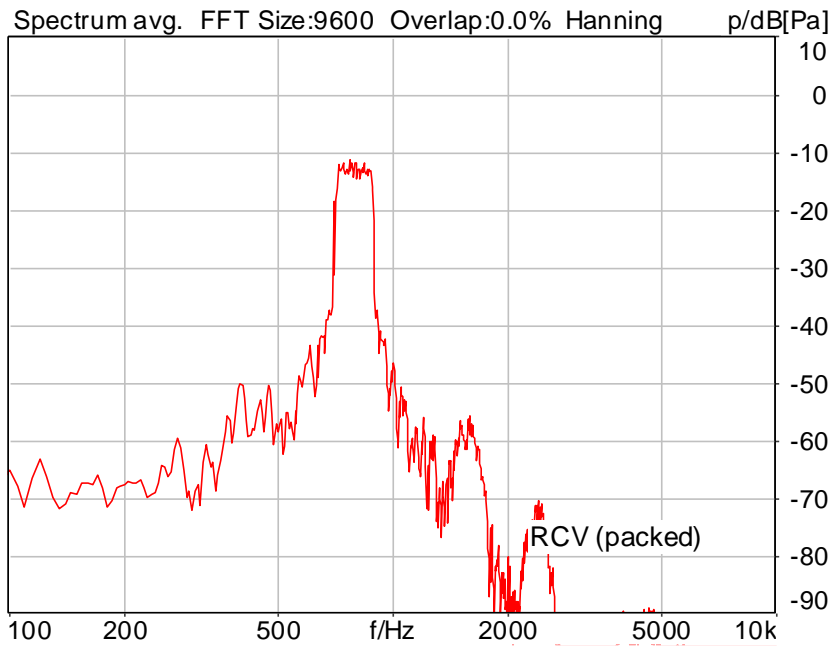




### 5.2 RCV Distortion and Noise - 800 Hz NB

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

114dB



Distortion (Noise) RCV (packed): 32.09 dB (2.49%) Ok

Ok

2024-08-02 上午 01:21 ACQUA 6.0.200

Limits

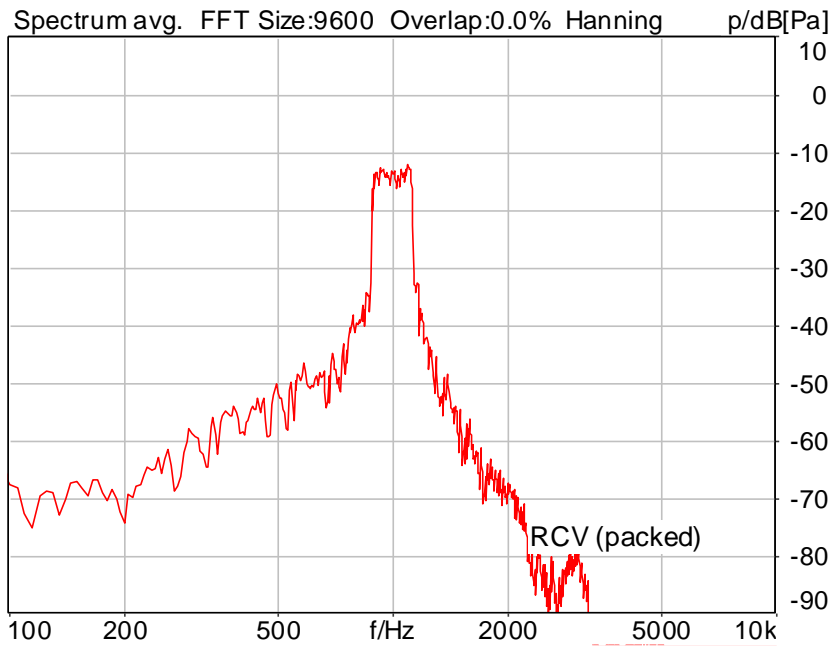
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 25.93 dB (5.05%) Ok

Ok

2024-08-02 上午 01:21 ACQUA 6.0.200

Limits

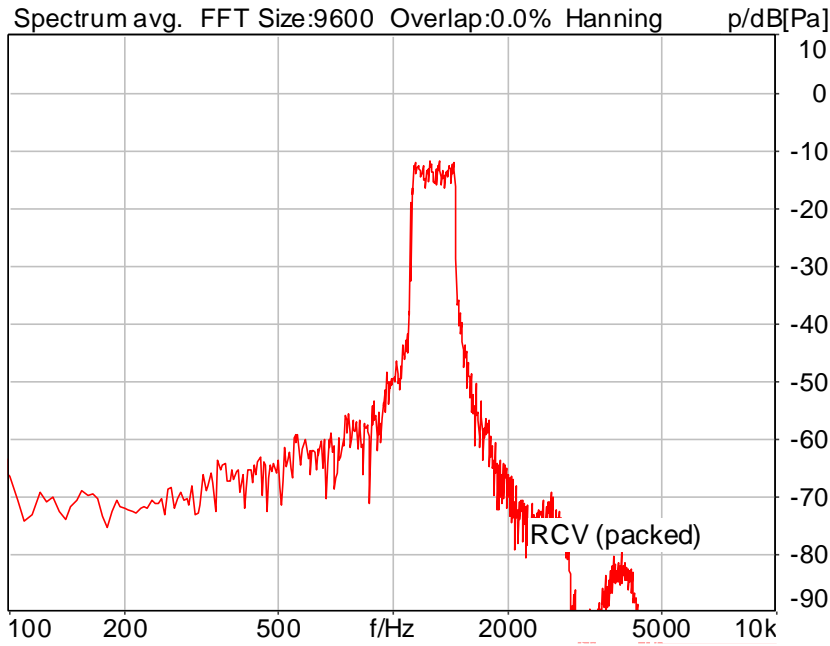
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 27.54 dB (4.20%) Ok

Ok

2024-08-02 上午 01:22 ACQUA 6.0.200

Limits

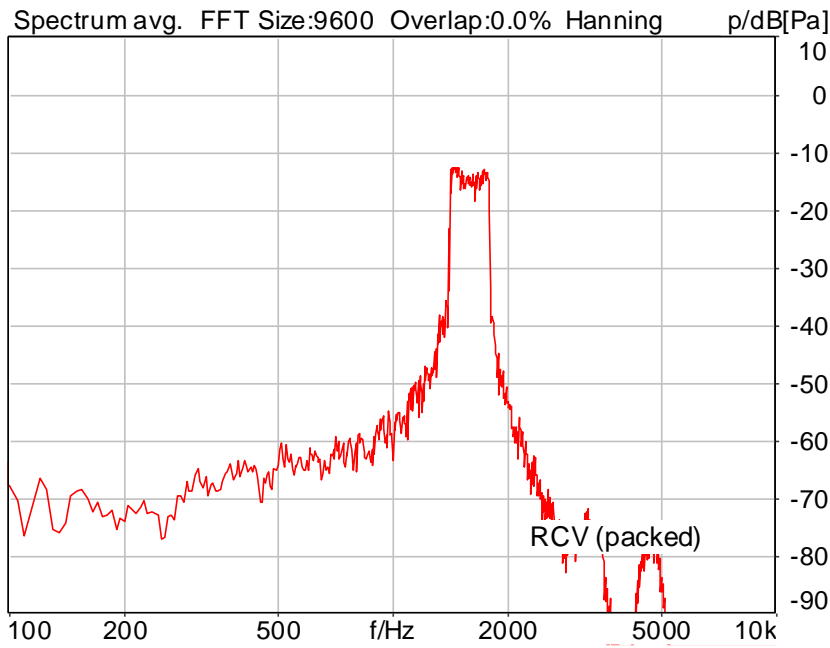
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 29.03 dB (3.54%) Ok

Ok

2024-08-02 上午 01:23 ACQUA 6.0.200

Limits

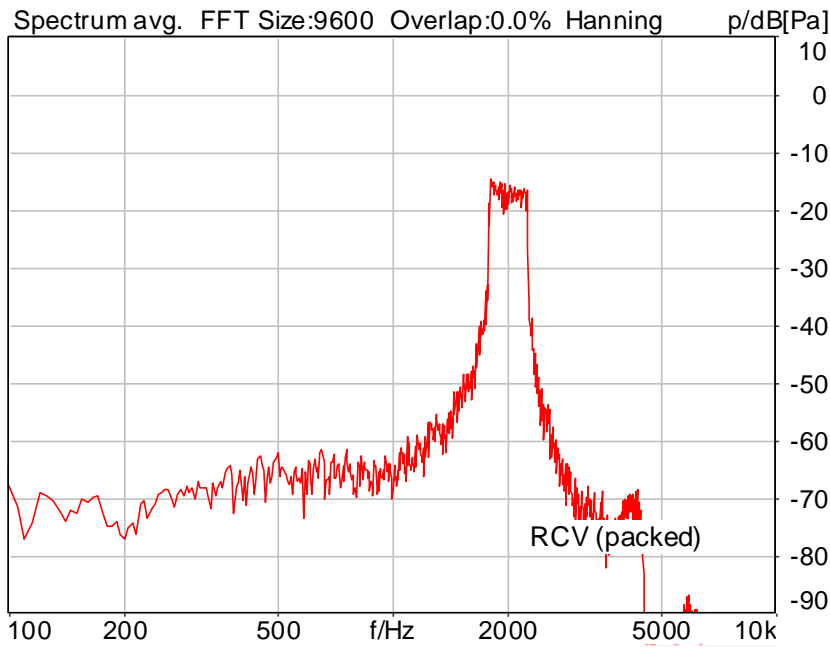
	lower
Run 1	20.00 dB



### 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

114dB



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

Ok

2024-08-02 上午 01:23 ACQUA 6.0.200

Limits

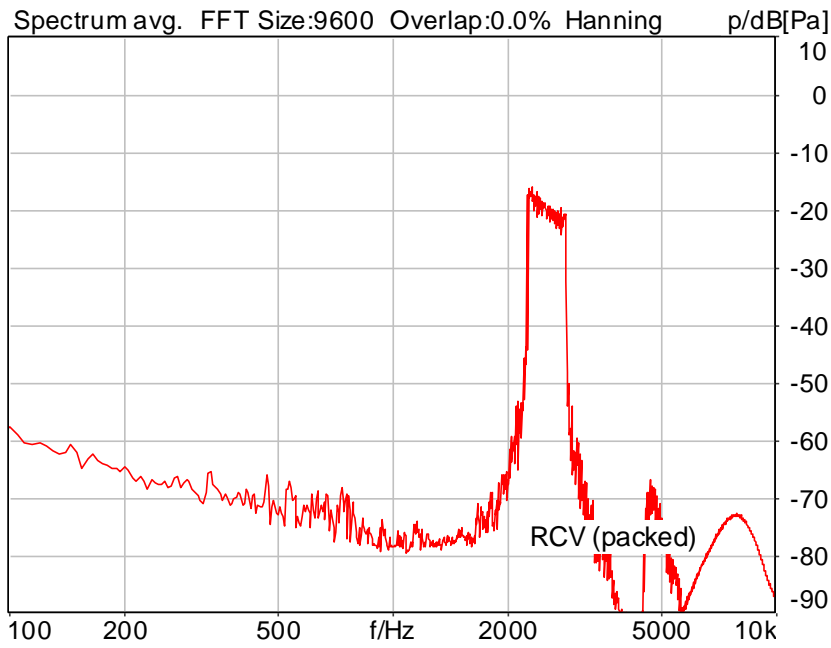
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 36.91 dB (1.43%) Ok

Ok

2024-08-02 上午 01:24 ACQUA 6.0.200

Limits

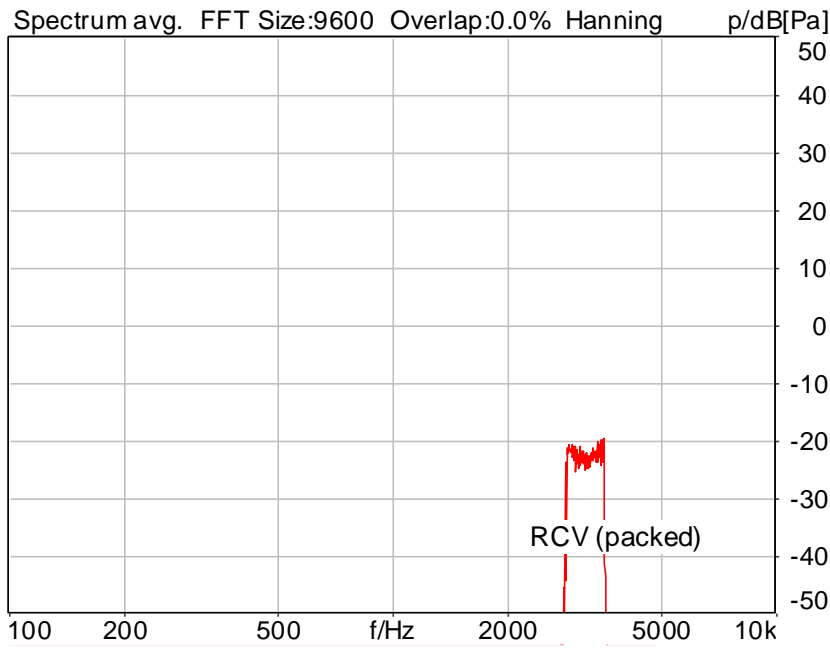
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 38.71 dB (1.16%) Ok

Ok

2024-08-02 上午 01:24 ACQUA 6.0.200

Limits

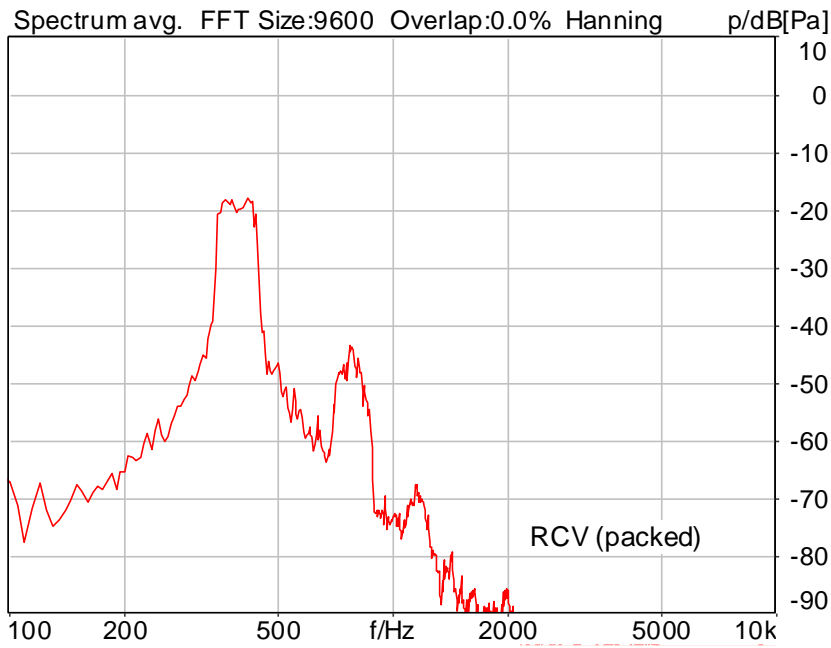
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 25.97 dB (5.03%) Ok

Ok

2024-08-02 上午 01:08 ACQUA 6.0.200

Limits

	lower
Run 1	20.00 dB

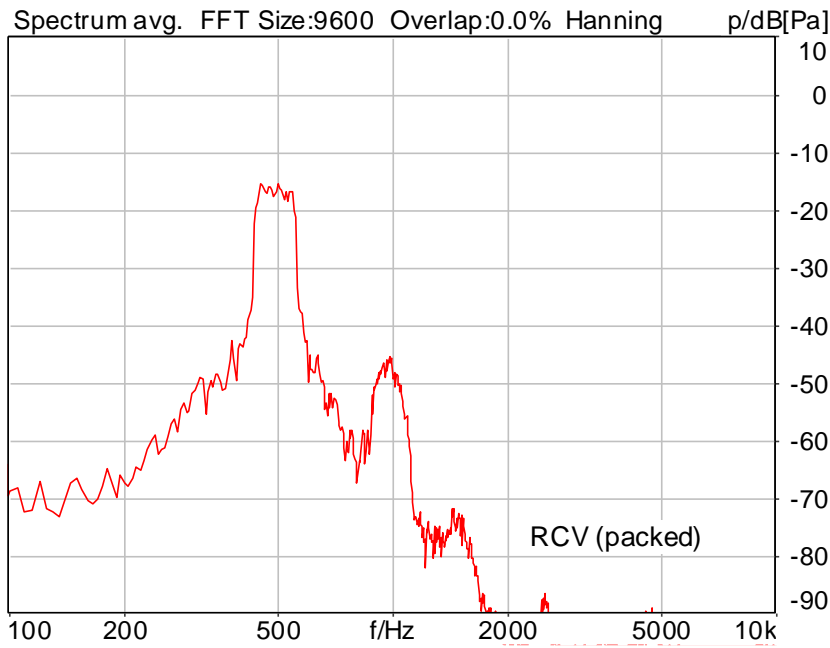




### 5.2 RCV Distortion and Noise - 500 Hz NB

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

114dB



Distortion (Noise) RCV (packed): 27.60 dB (4.17%) Ok

Ok

2024-08-02 上午 01:09 ACQUA 6.0.200

Limits

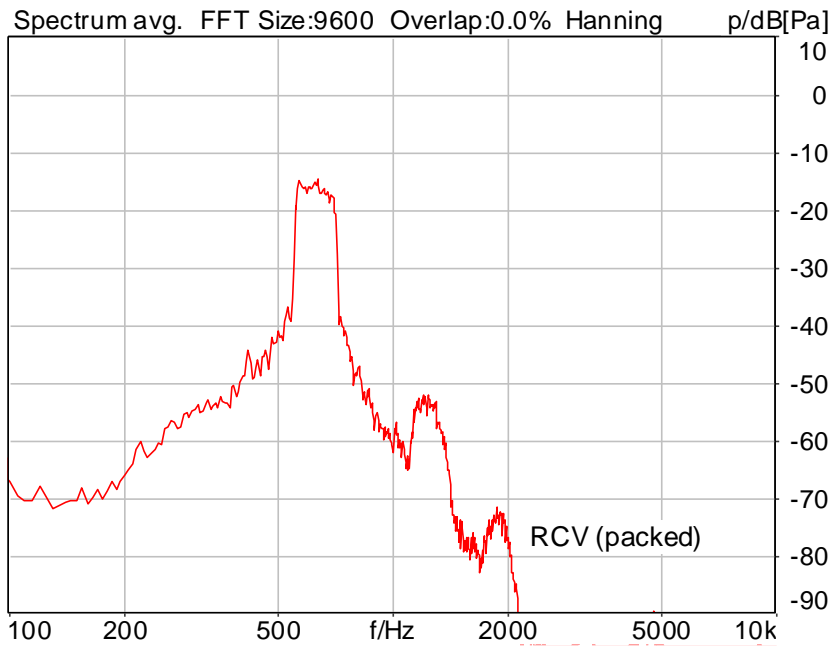
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 28.09 dB (3.94%) Ok

Ok

2024-08-02 上午 01:09 ACQUA 6.0.200

Limits

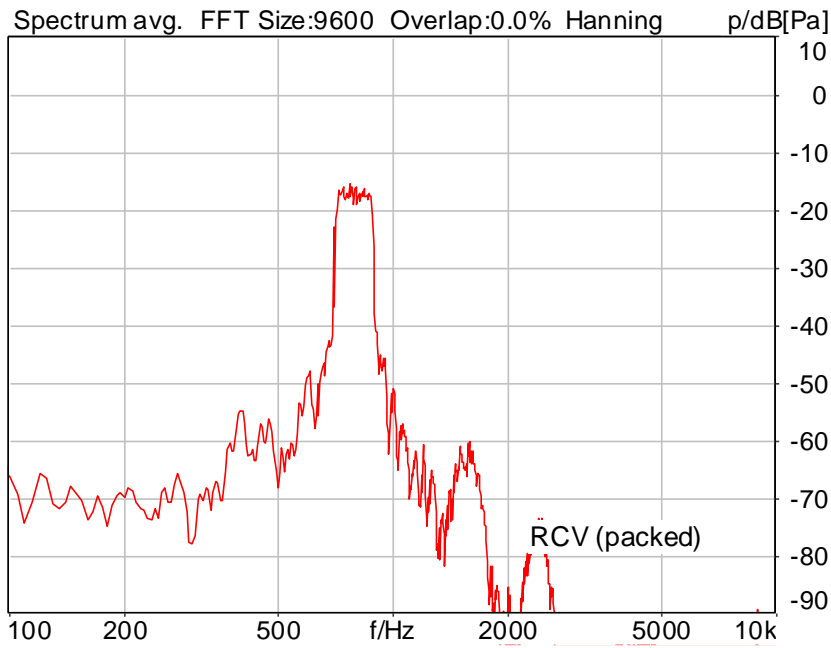
	lower
Run 1	20.00 dB



### 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

114dB



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

Ok

2024-08-02 上午 01:10 ACQUA 6.0.200

Limits

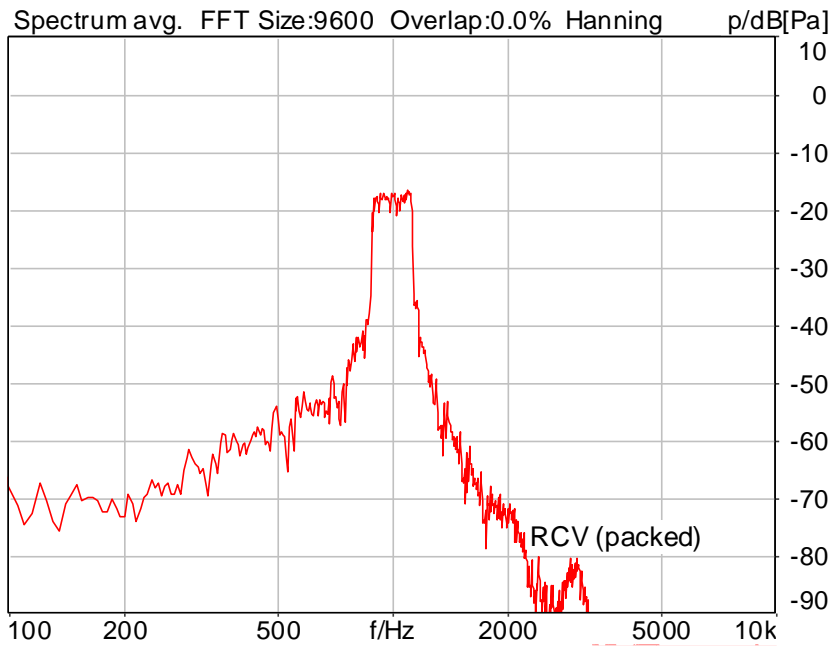
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 26.11 dB (4.95%) Ok

Ok

2024-08-02 上午 01:10 ACQUA 6.0.200

Limits

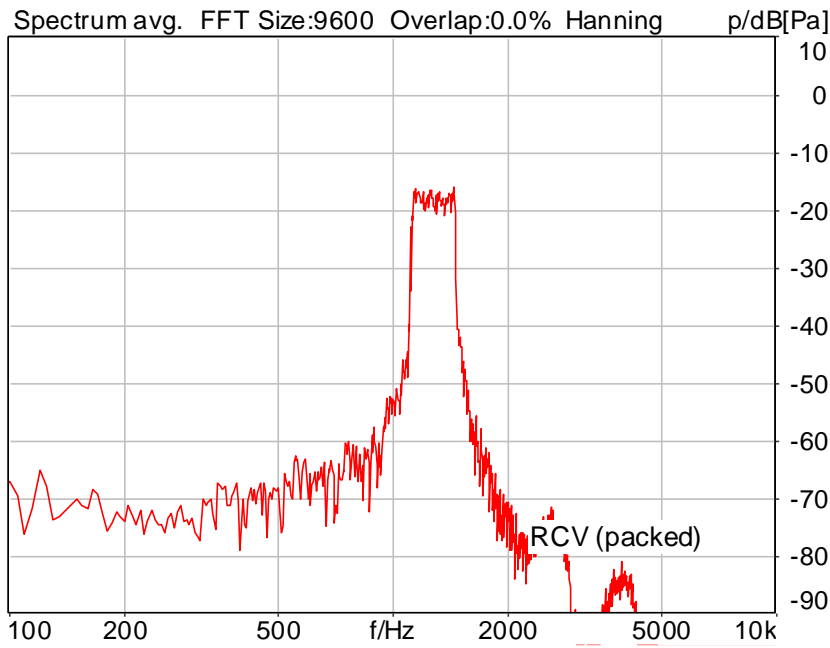
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 26.86 dB (4.54%) Ok

Ok

2024-08-02 上午 01:11 ACQUA 6.0.200

Limits

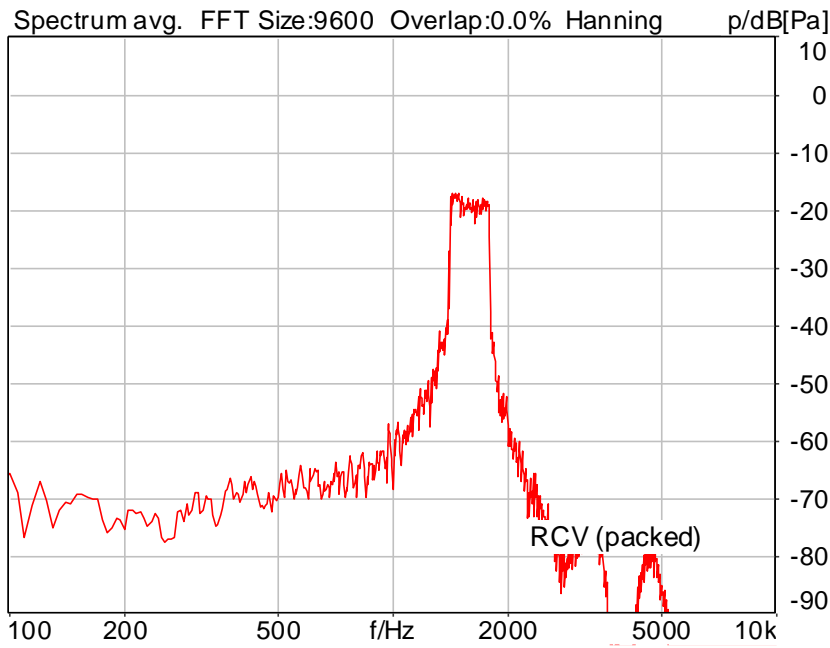
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 27.91 dB (4.02%) Ok

Ok

2024-08-02 上午 01:11 ACQUA 6.0.200

Limits

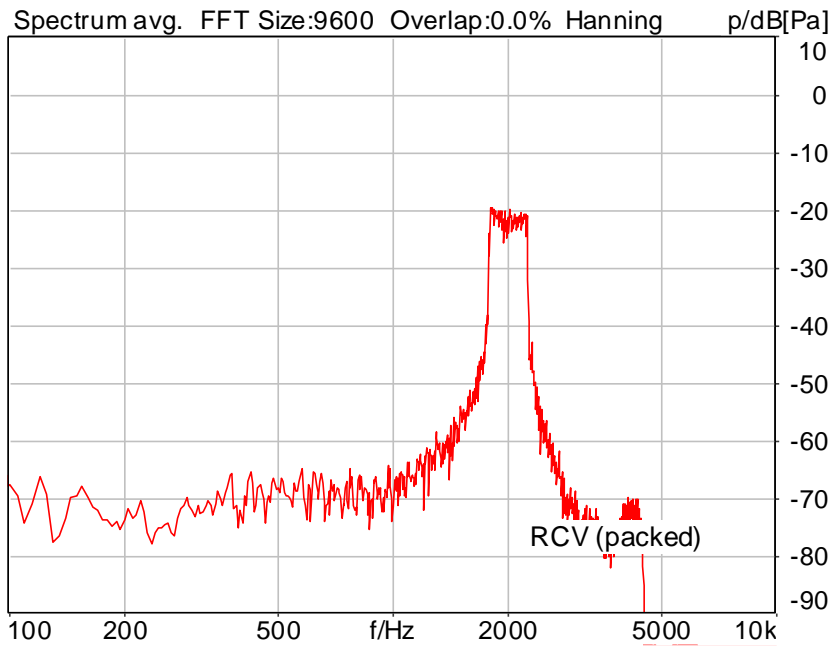
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 26.91 dB (4.51%) Ok

Ok

2024-08-02 上午 01:12 ACQUA 6.0.200

Limits

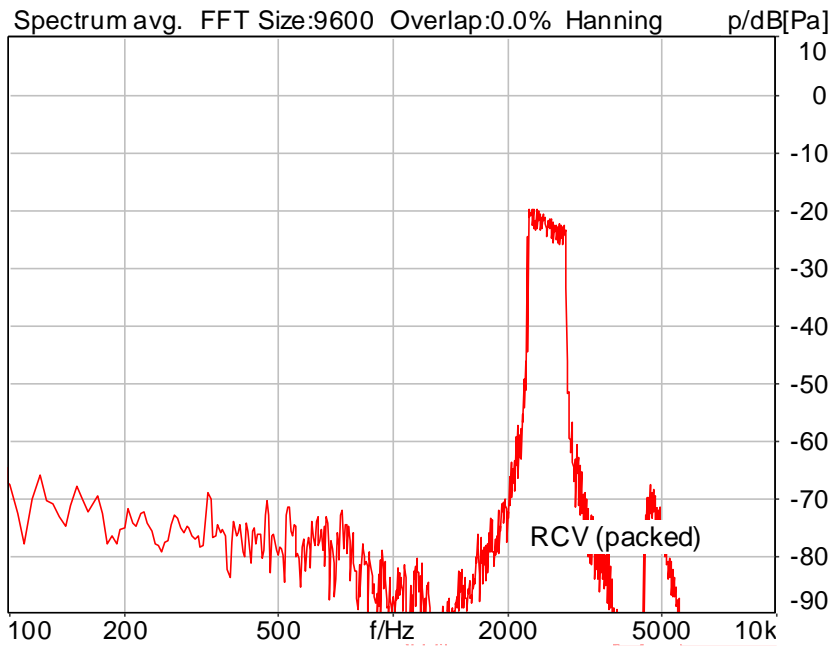
	lower
Run 1	20.00 dB



### 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

114dB



Distortion (Noise) RCV (packed): 37.03 dB (1.41%) Ok

Ok

2024-08-02 上午 01:12 ACQUA 6.0.200

Limits

	lower
Run 1	20.00 dB

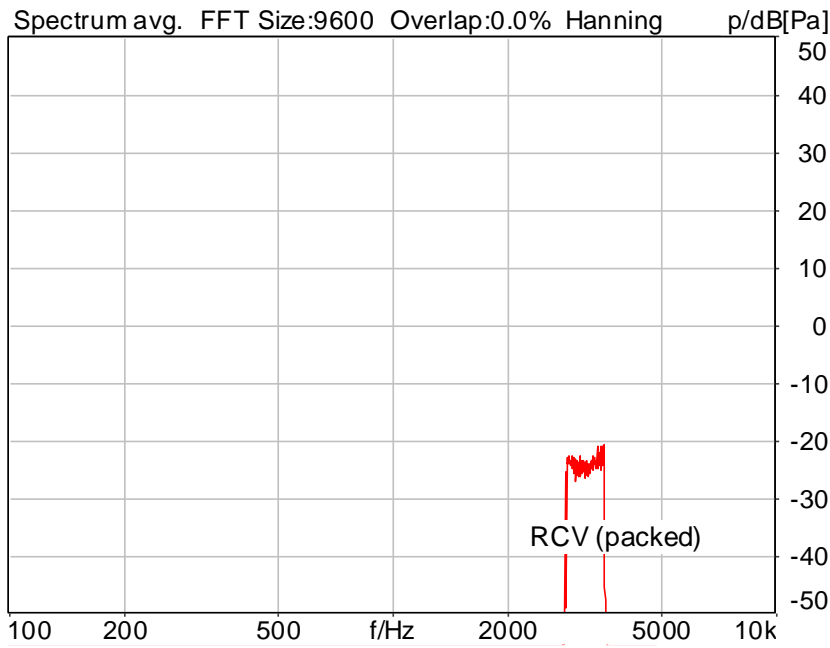




### 5.2 RCV Distortion and Noise - 3150 Hz NB

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

114dB



Distortion (Noise) RCV (packed): 41.28 dB (0.86%) Ok

Ok

2024-08-02 上午 01:13 ACQUA 6.0.200

Limits

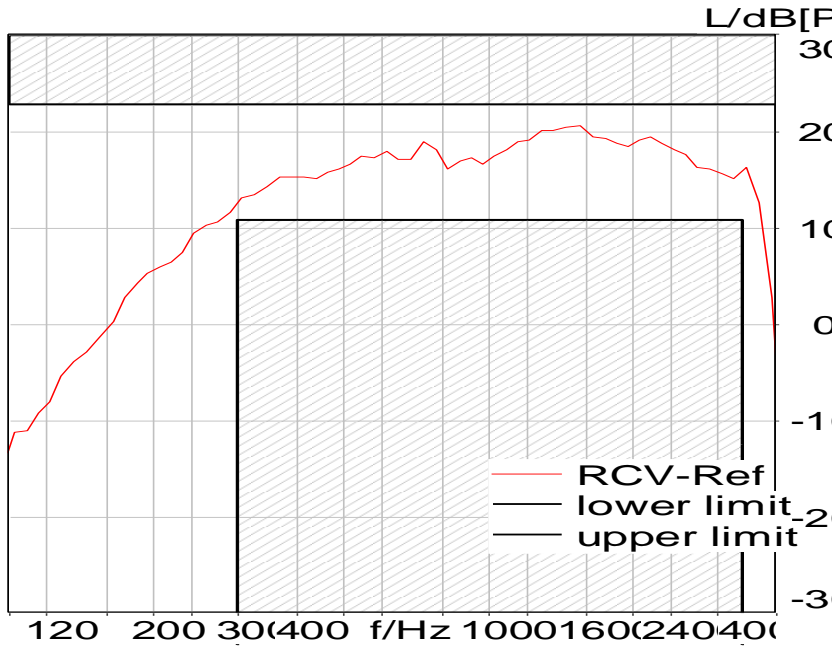
	lower
Run 1	20.00 dB



### 5.3 Frequency Response 8N FF HANB

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

114dB



Absolute minimal distance

2.26 dB at 305.9 Hz Ok

**Ok**

2024-08-02 上午 01:04 ACQUA 6.0.200

**Limits**

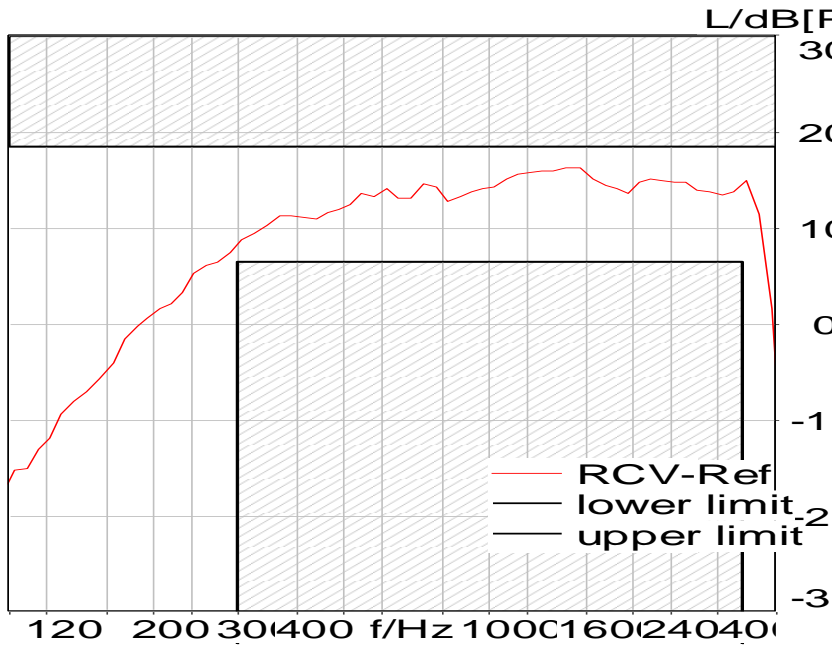
	<b>lower</b>
Run 1	Fit into tolerance



### 5.3 Frequency Response 2N FF HANB

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

114dB



Absolute minimal distance

2.30 dB at 1547.5 Hz Ok

Ok

2024-08-02 上午 01:06 ACQUA 6.0.200

Limits

	lower
Run 1	Fit into tolerance