Measurement Protocol(1#)

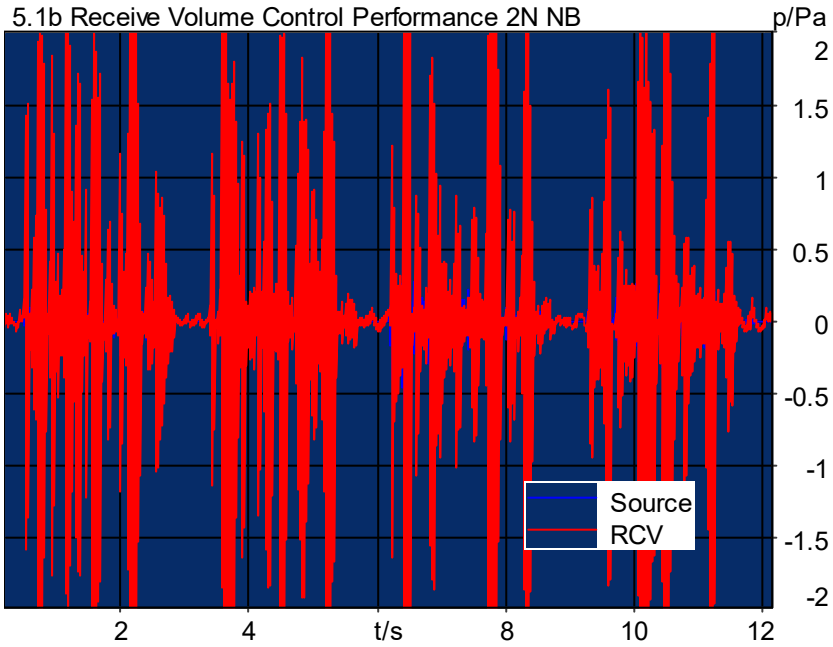
Measurement Object	Ti-CC26080336-LTEB2

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.79	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.54	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.93	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.48	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.82	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.52	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.82	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.15	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.29	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.22	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.87	Ti-CC26080336-LTEB2
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.27	Ti-CC26080336-LTEB2

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Channel	Speech level	Activity	
RCV	85.79 dB[SPL]	80.52%	Ok

Ok

2026/9/12 4:37 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	123.6000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

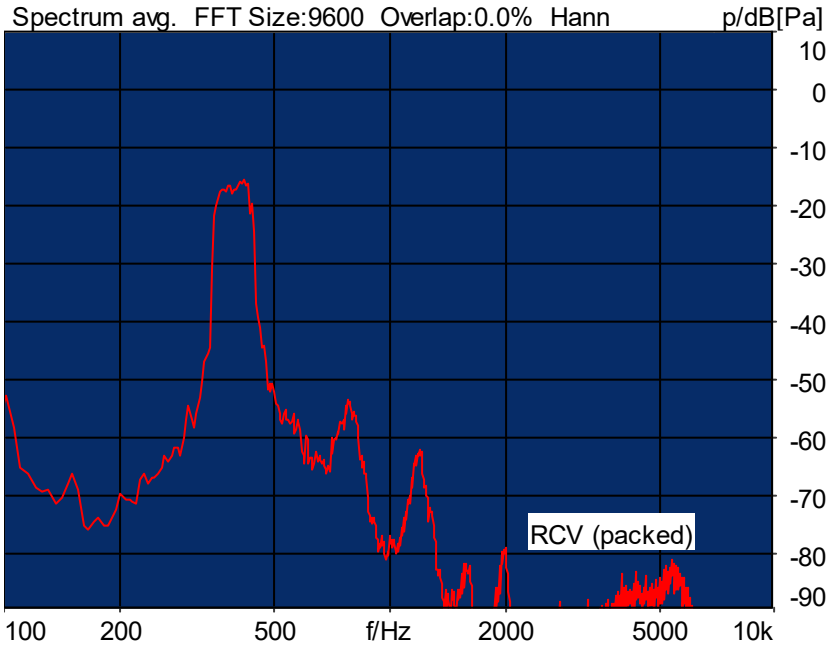
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 35.54 dB (1.67%) Ok

Ok

2026/9/4 17:21 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

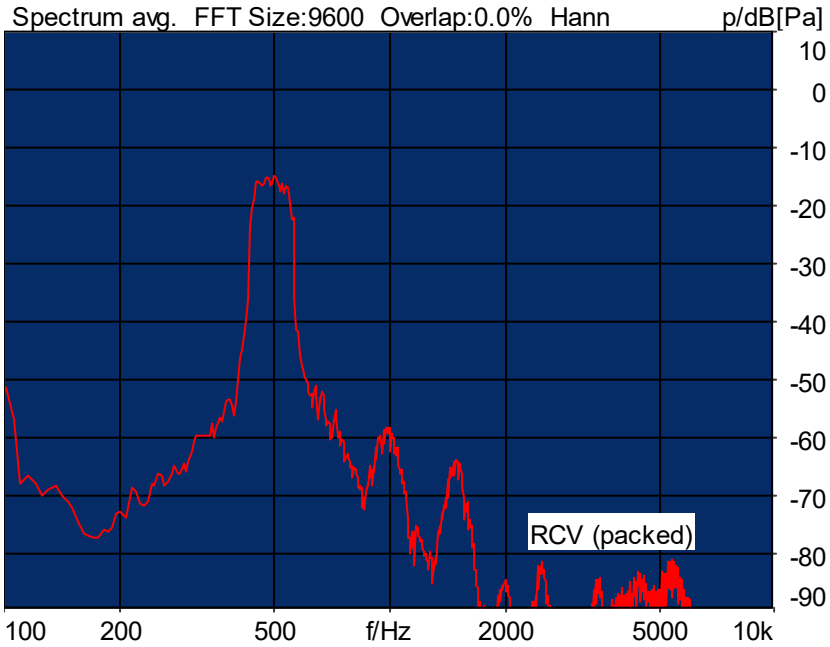
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 35.93 dB (1.60%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

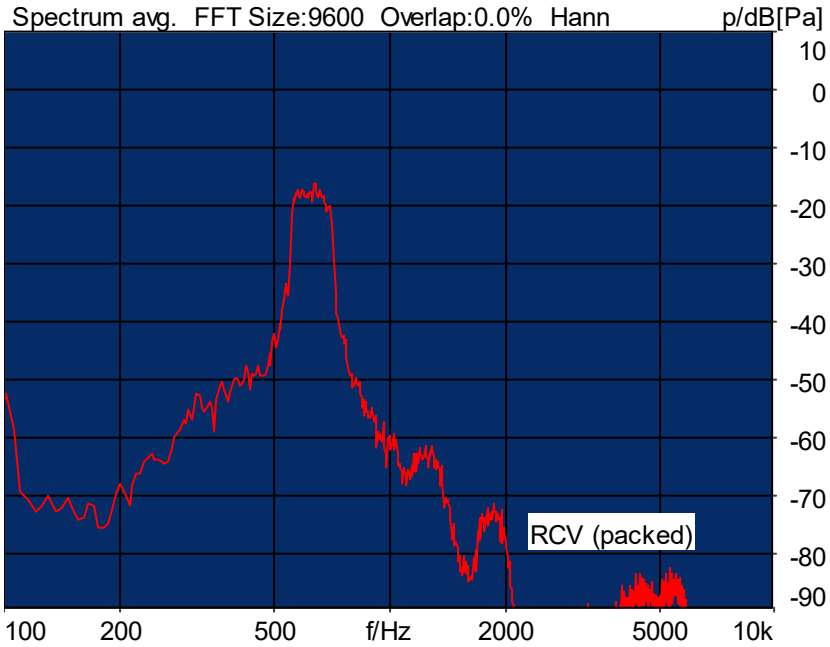
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.48 dB (3.77%) Ok

Ok

2026/9/4 17:22 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

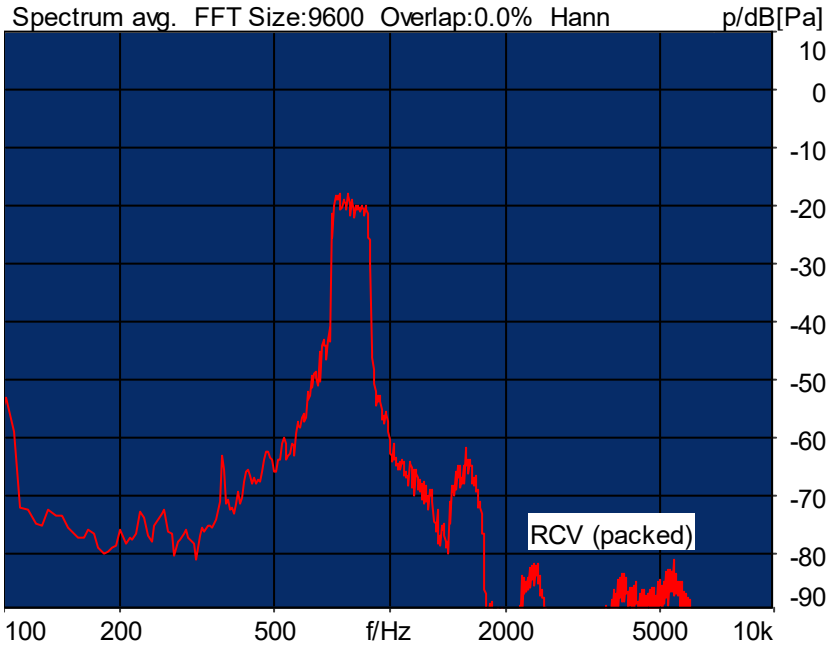
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 32.82 dB (2.28%) Ok

Ok

2026/9/4 17:22 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

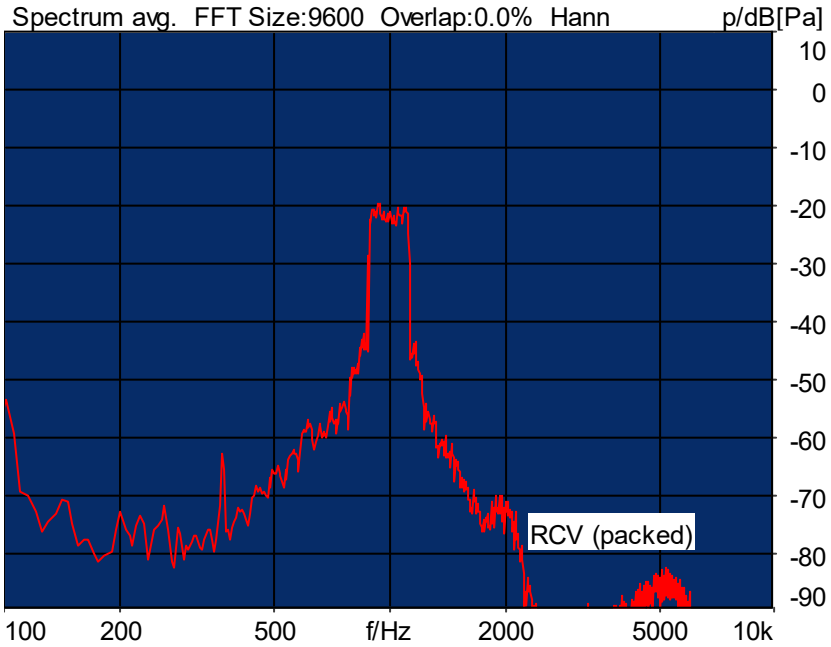
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 27.52 dB (4.21%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

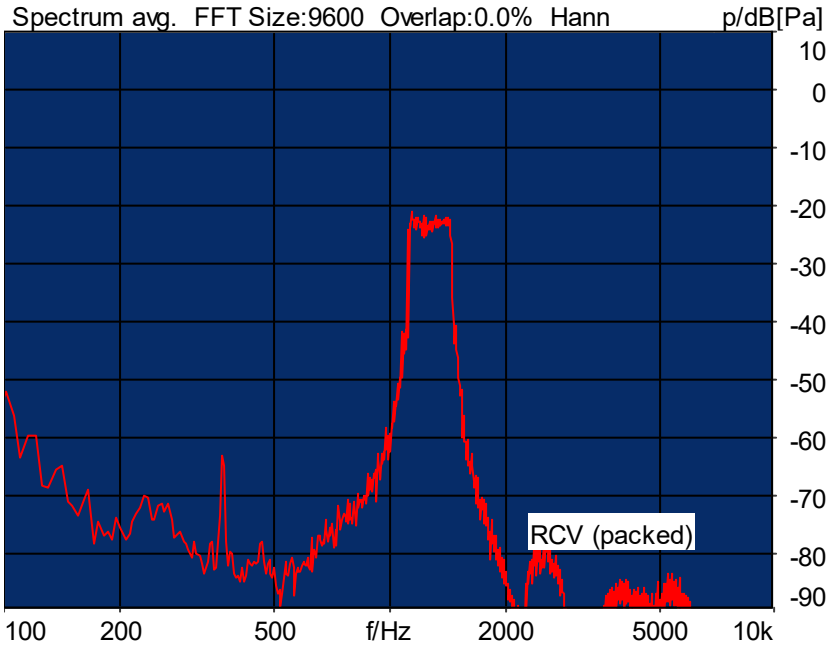
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N fuce-EVS-NB-9.6k



Distortion (Noise) RCV (packed): 24.82 dB (5.74%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

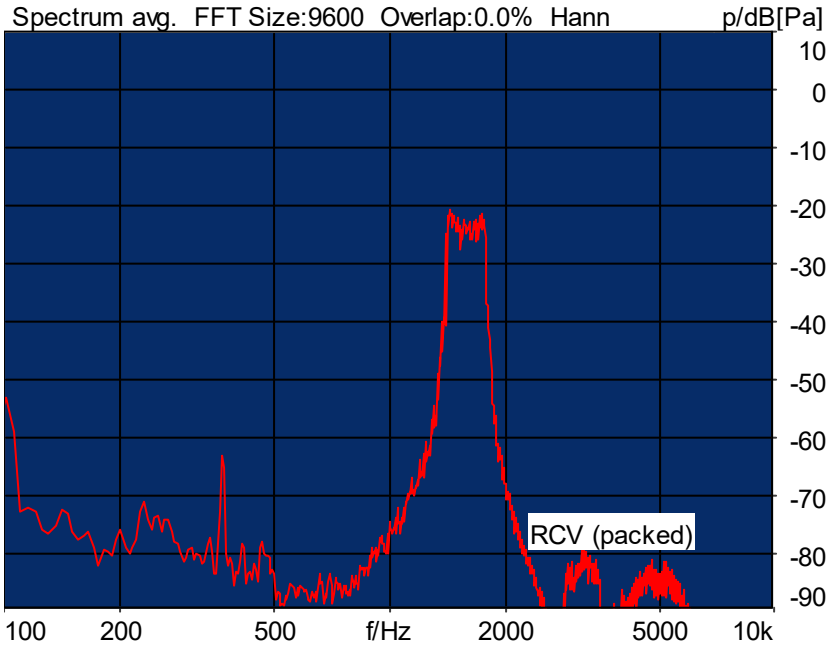
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 29.15 dB (3.49%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

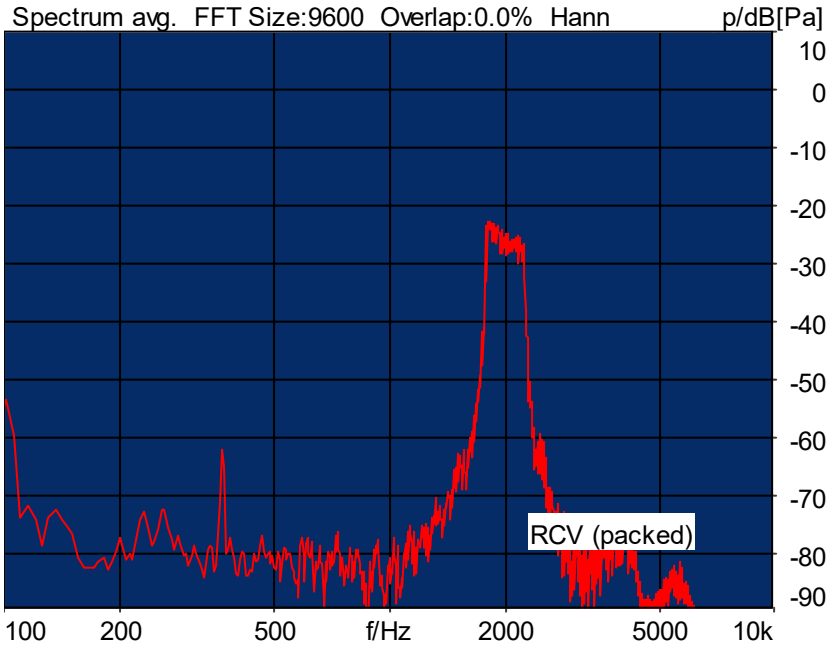
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.29 dB (3.85%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

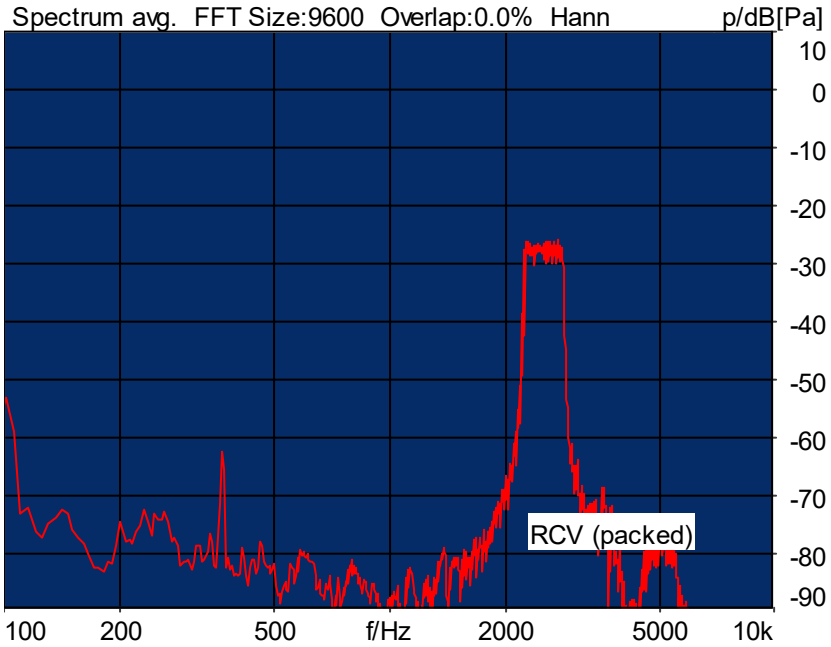
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 30.22 dB (3.08%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

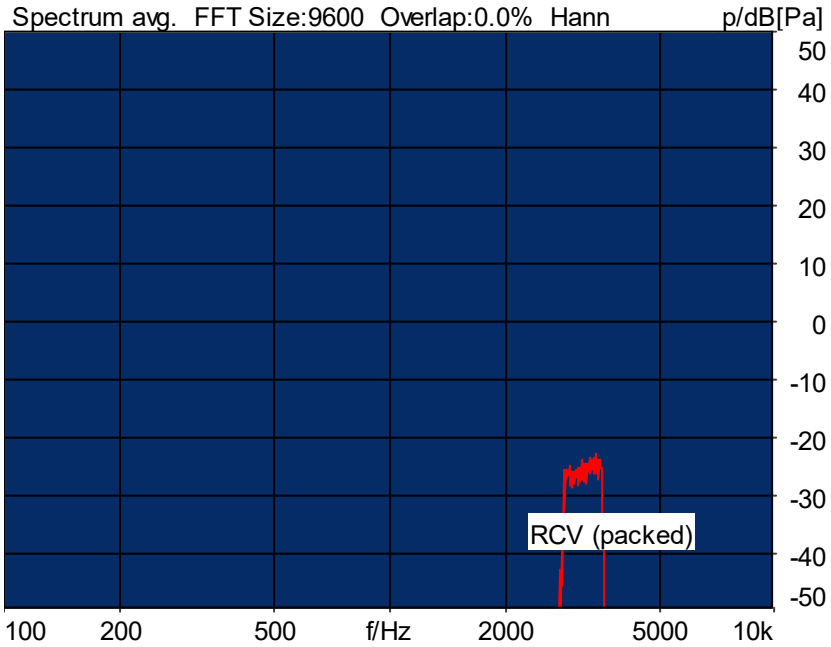
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 29.87 dB (3.21%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

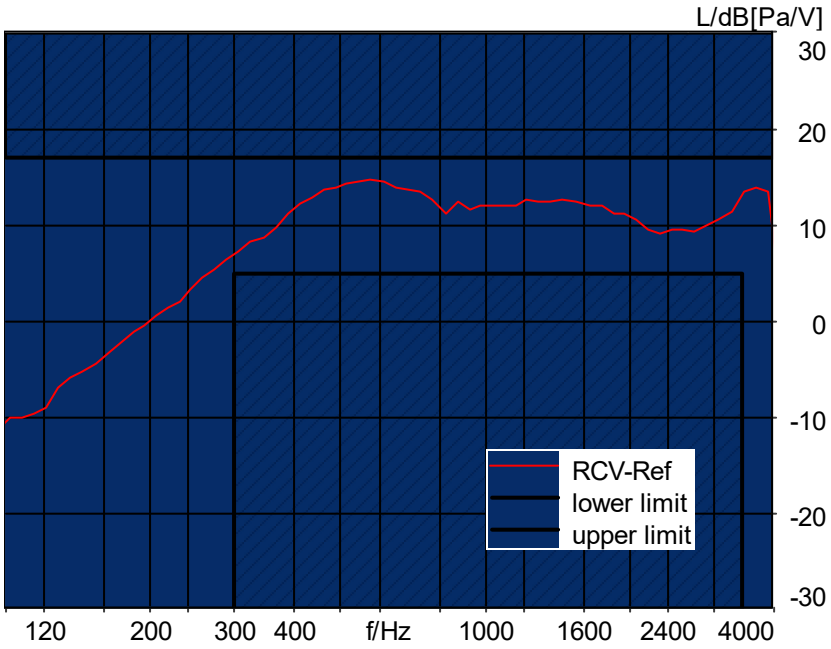
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF HANB

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Absolute minimal distance
2.27 dB at 576.7 Hz Ok

Ok

2026/9/4 17:25 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat
Level adjustment Channel 1 Gain -90.00 dB
Level adjustment Channel 2 Gain -4.00 dB
NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.

0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	122.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(2#)

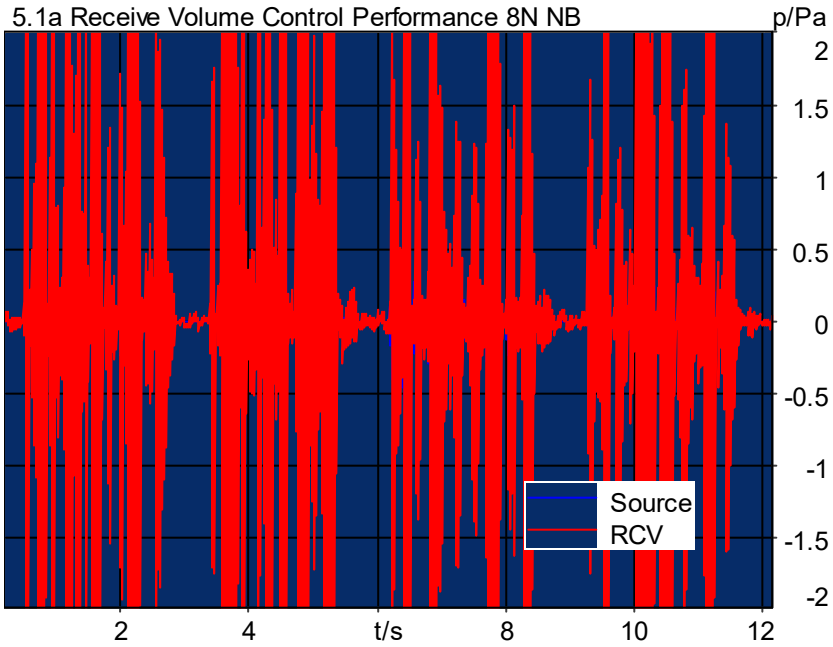
Measurement Object	Ti-CC26080336-LTEB2

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.39	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.50	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.94	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.68	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.57	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.62	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.54	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.55	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.92	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.09	Ti-CC26080336-LTEB2
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.76	Ti-CC26080336-LTEB2
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.29	Ti-CC26080336-LTEB2

5.1a Receive Volume Control Performance 8N NB

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Channel	Speech level	Activity	
RCV	91.39 dB[SPL]	80.82%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	124.5000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

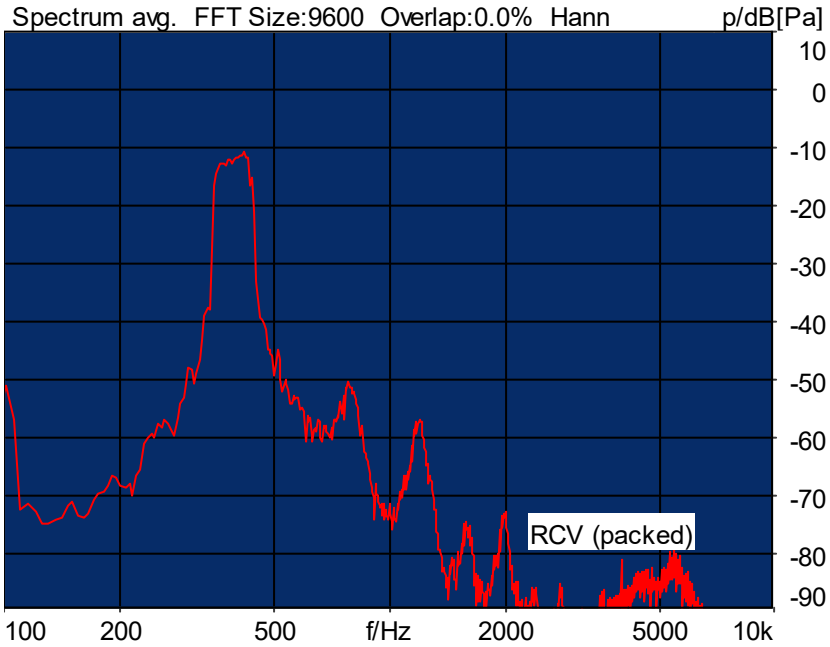
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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EVS-NB-9.6



Distortion (Noise) RCV (packed): 35.50 dB (1.68%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

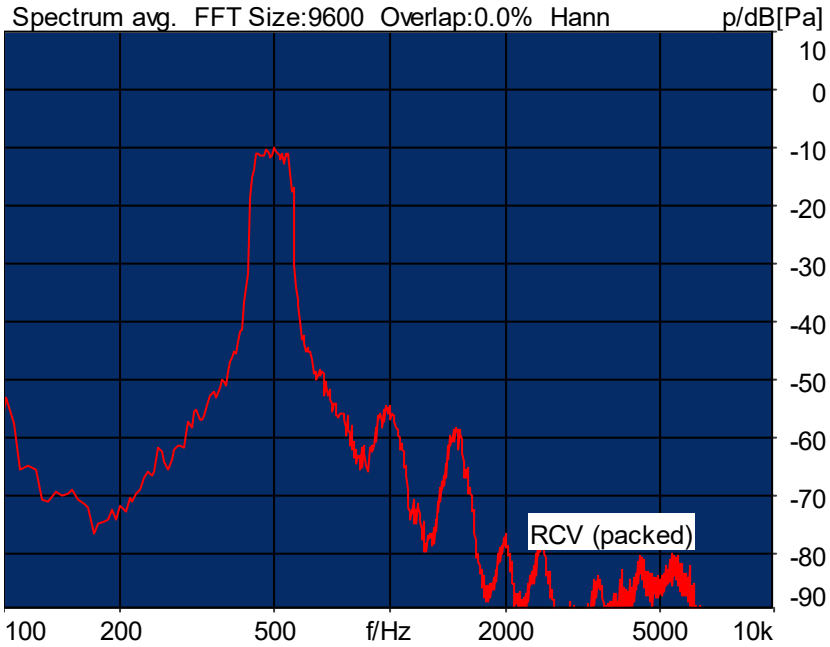
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 35.94 dB (1.60%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

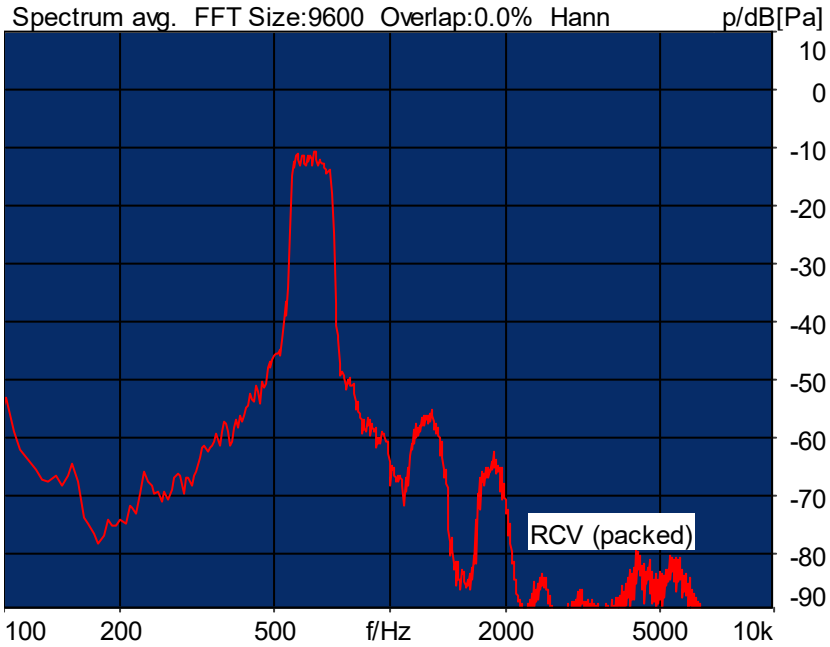
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 36.68 dB (1.47%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

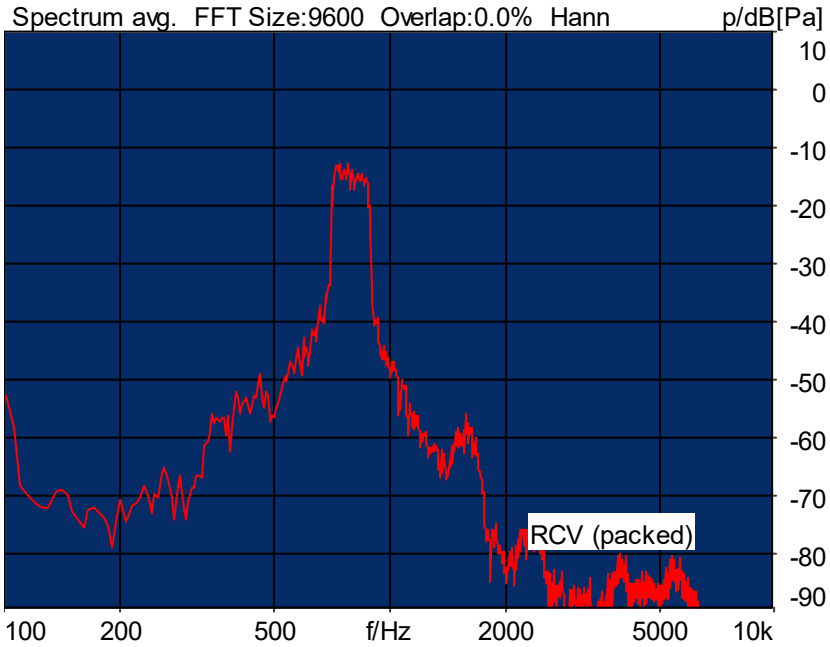
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.57 dB (3.73%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

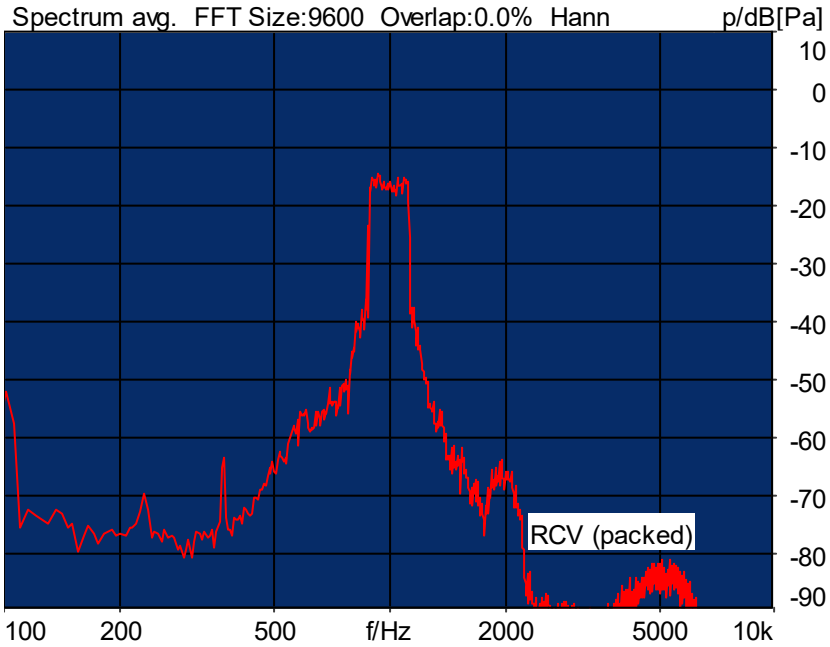
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

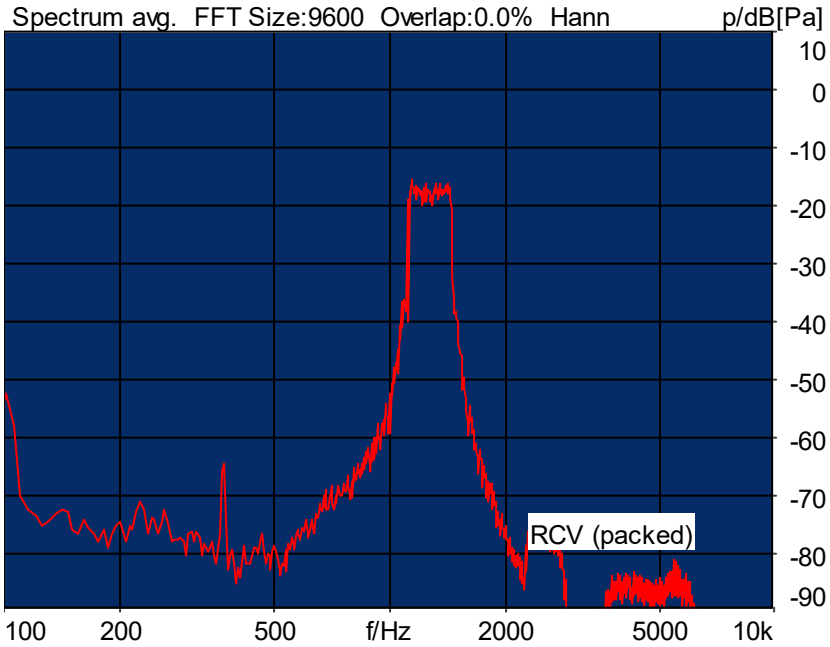
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N EVS-NB-9.6



Distortion (Noise) RCV (packed): 25.54 dB (5.28%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

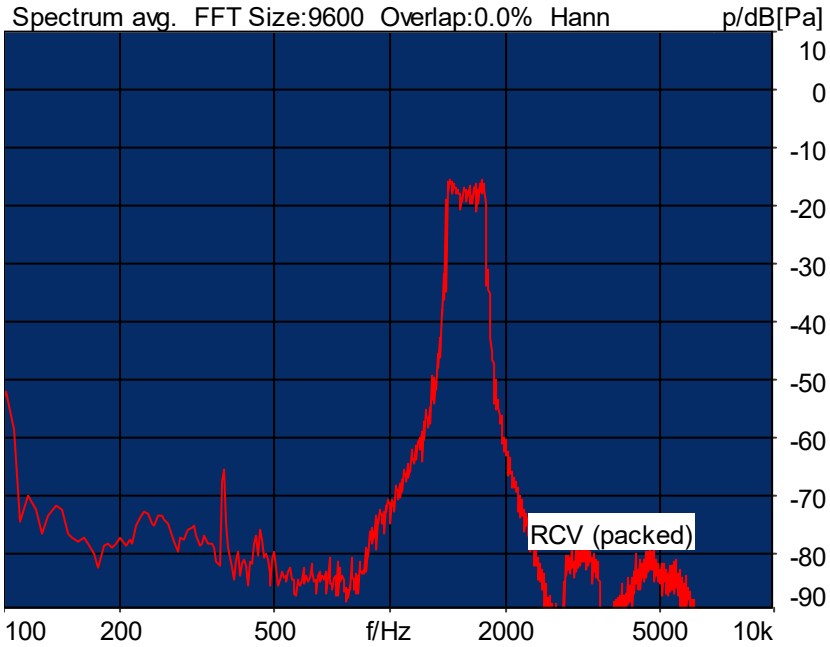
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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EVS-NB-9.6



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

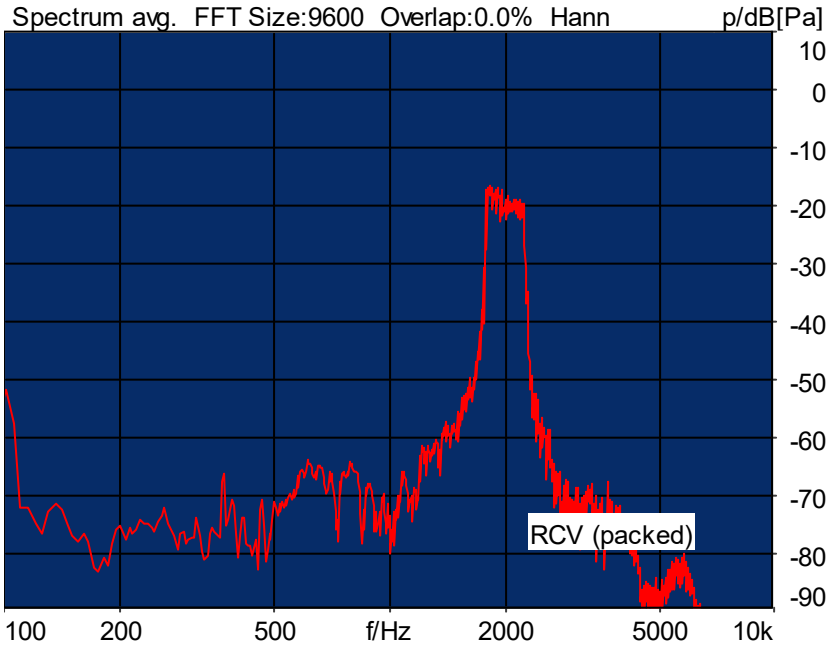
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 27.92 dB (4.02%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

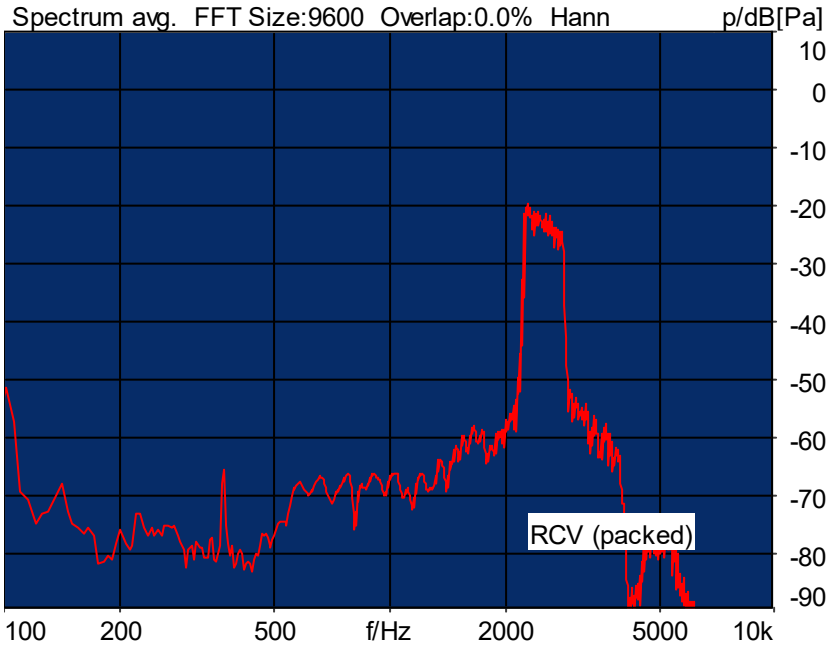
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N EVS-NB-9.6



Distortion (Noise) RCV (packed): 27.09 dB (4.42%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

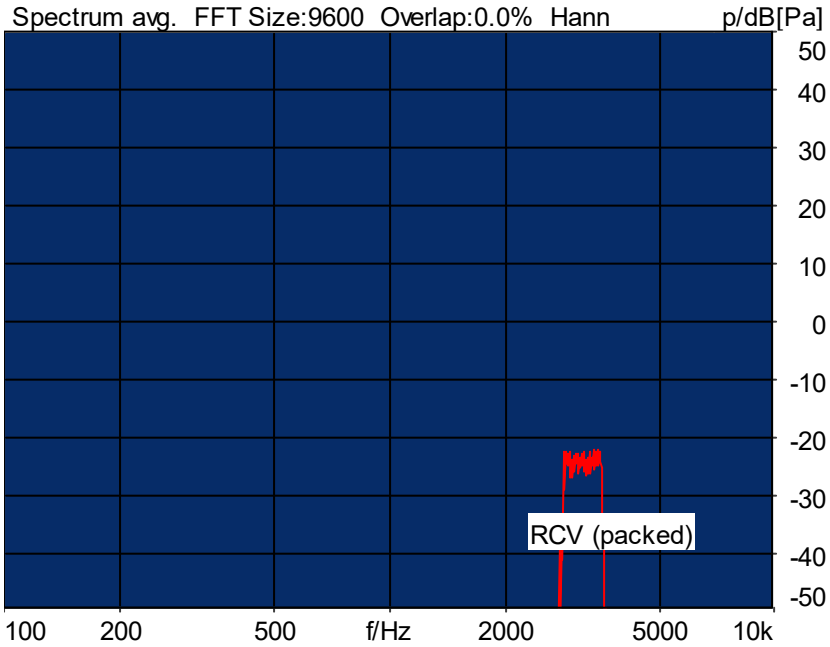
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.76 dB (3.65%) Ok

Ok

2026/9/4 17:17 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

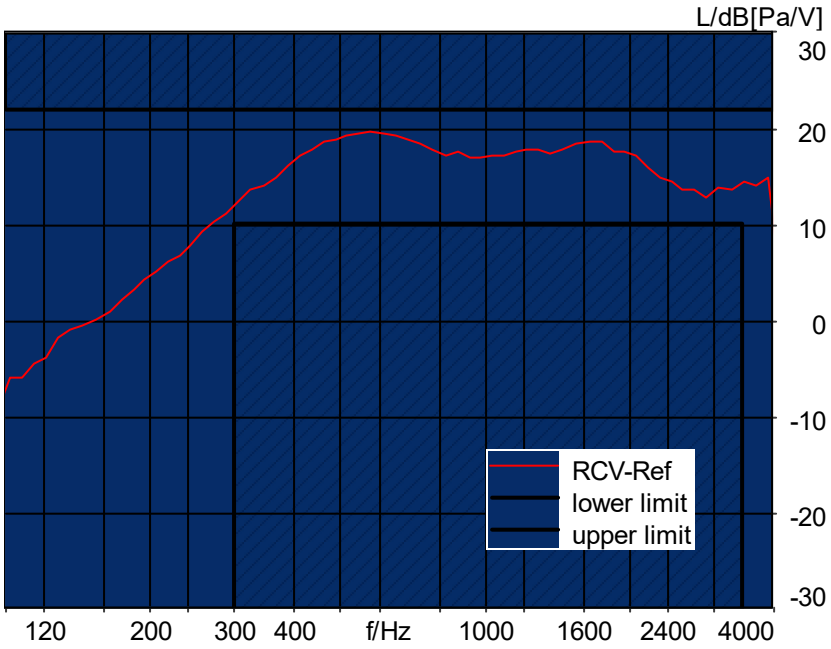
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Absolute minimal distance
2.29 dB at 576.7 Hz Ok

Ok

2026/9/4 17:17 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat
Level adjustment Channel 1 Gain -90.00 dB
Level adjustment Channel 2 Gain -4.00 dB
NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.

0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	123.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(3#)

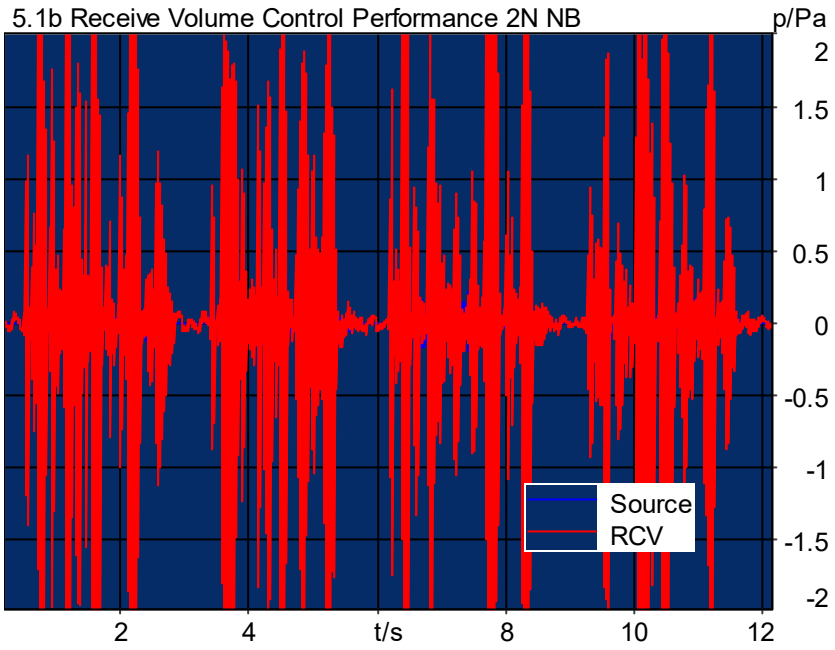
Measurement Object	Ti-CC26080336-LTEB4

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.35	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.35	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.06	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.19	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.05	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.01	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.54	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.49	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.05	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.32	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.25	Ti-CC26080336-LTEB4
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.84	Ti-CC26080336-LTEB4

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	86.35 dB[SPL]	80.74%	Ok

Ok

2026/9/12 4:49 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	134.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

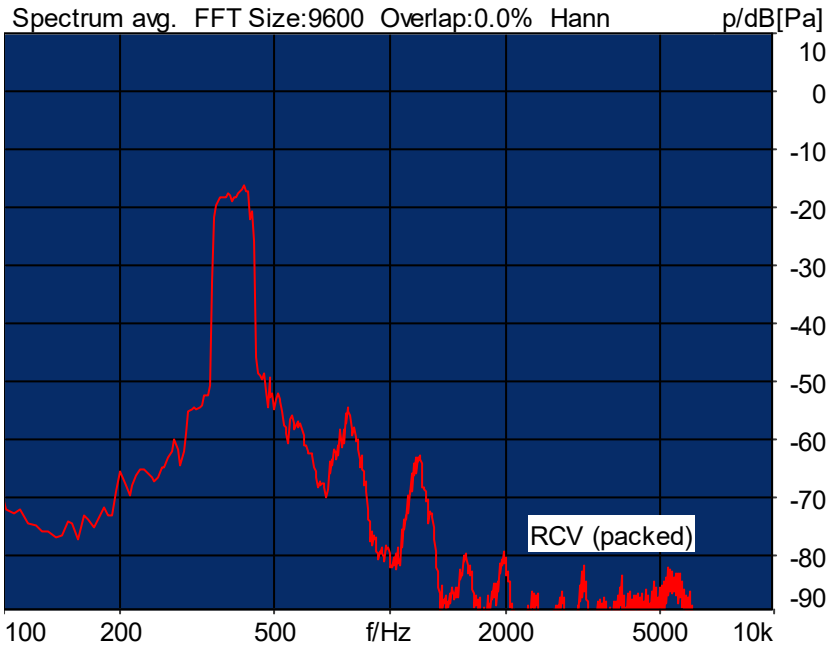
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 35.35 dB (1.71%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

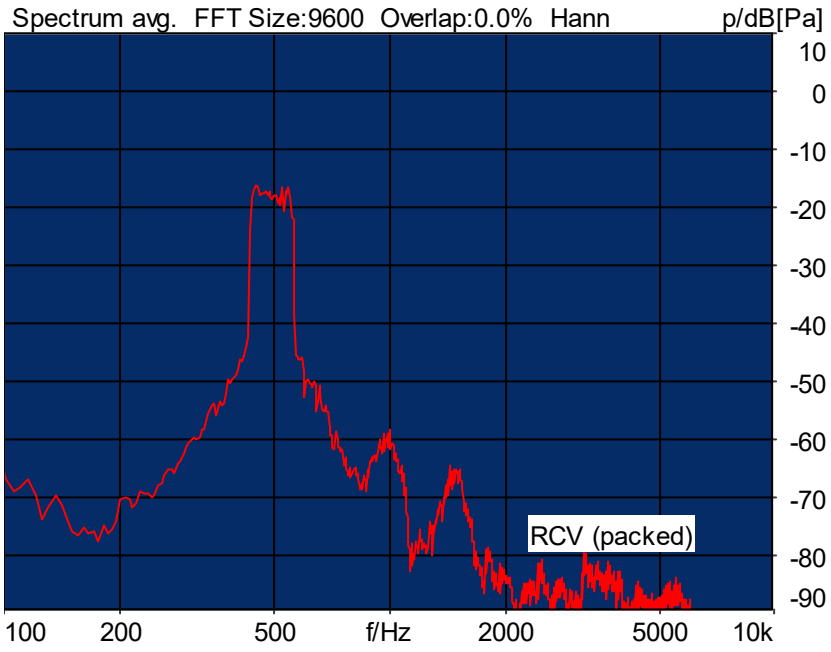
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



Distortion (Noise) RCV (packed): 34.06 dB (1.98%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

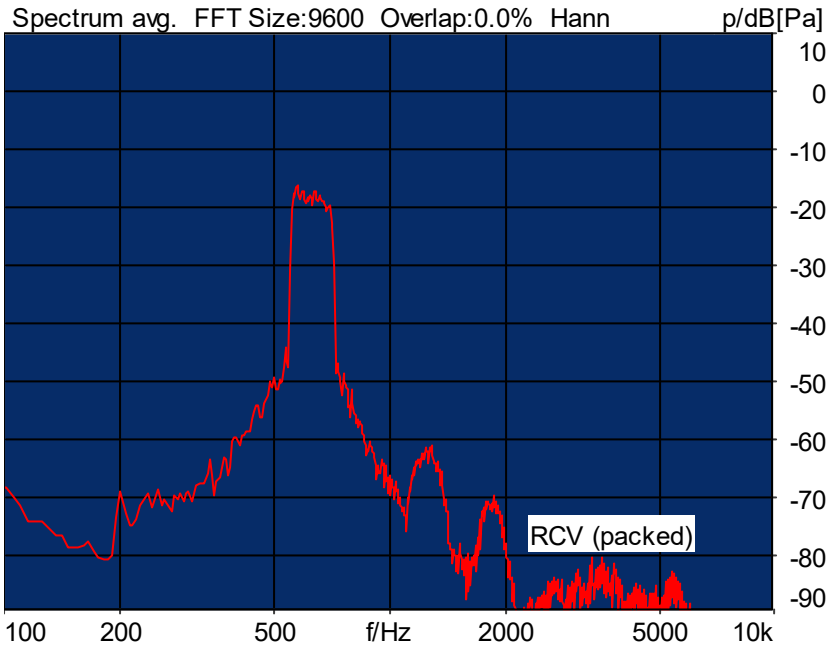
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 34.19 dB (1.95%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

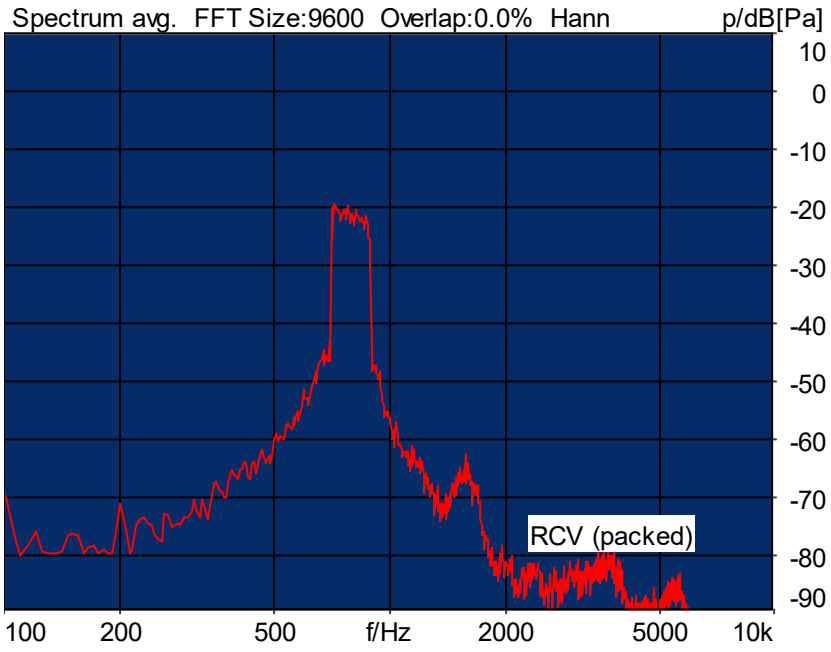
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



Distortion (Noise) RCV (packed): 30.05 dB (3.15%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

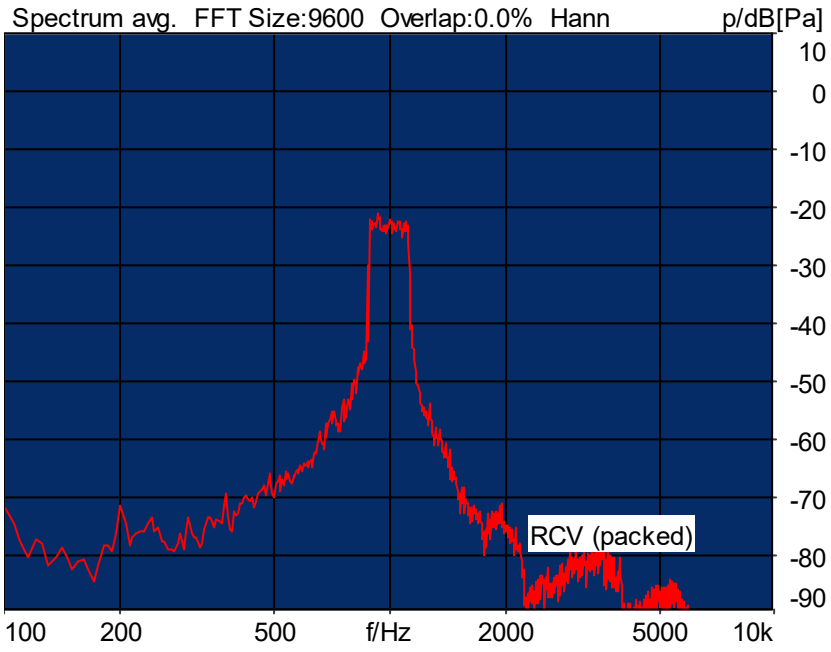
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 28.01 dB (3.98%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

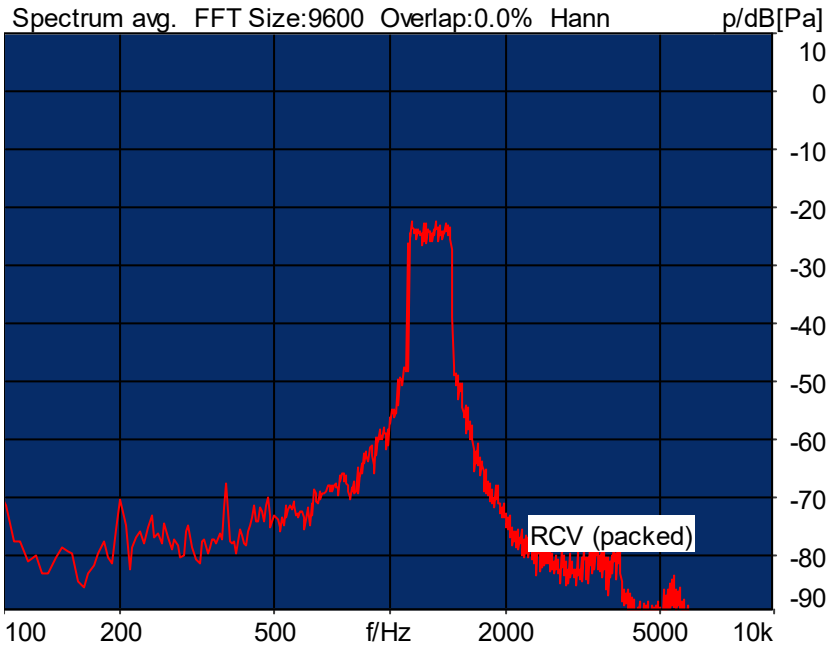
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 26.54 dB (4.71%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

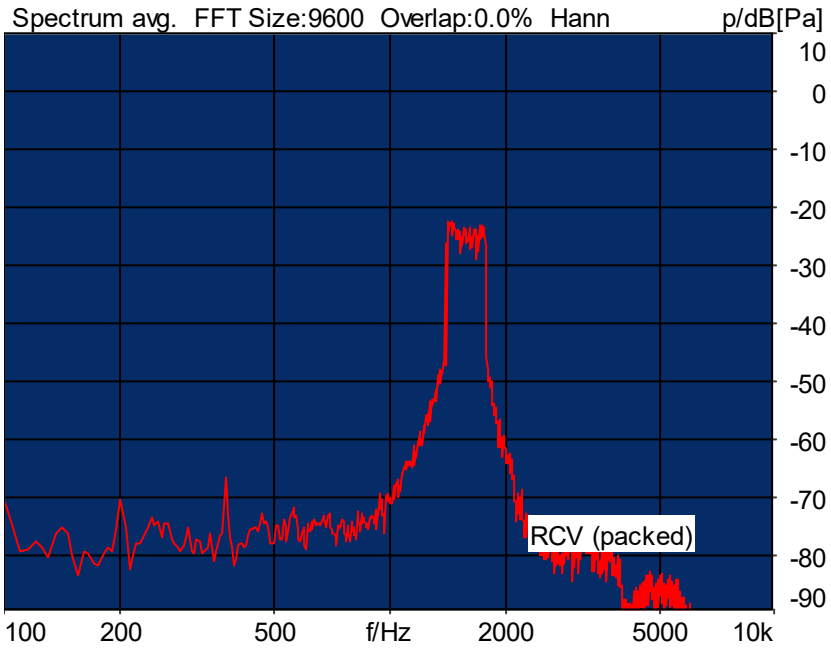
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 28.49 dB (3.76%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

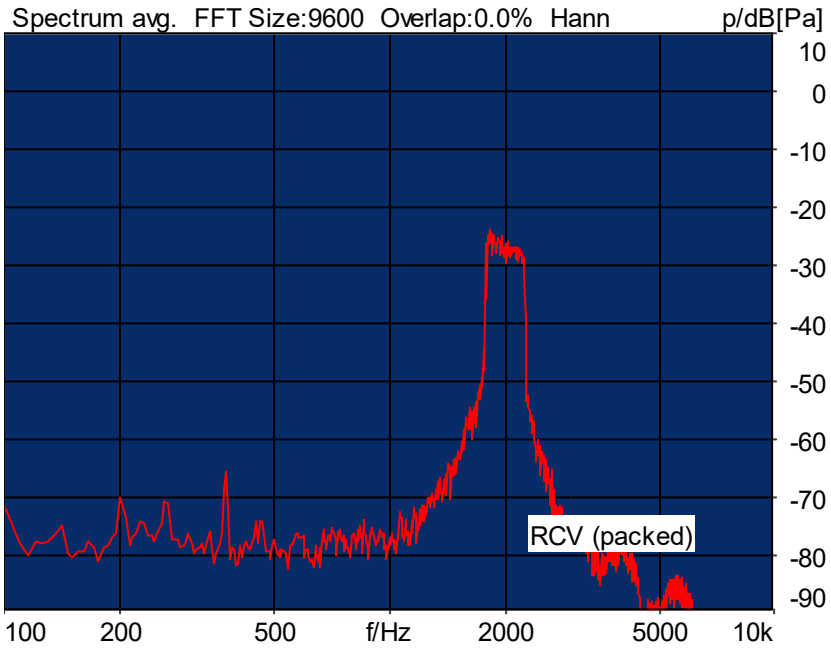
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



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

Ok

2026/9/5 3:00 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

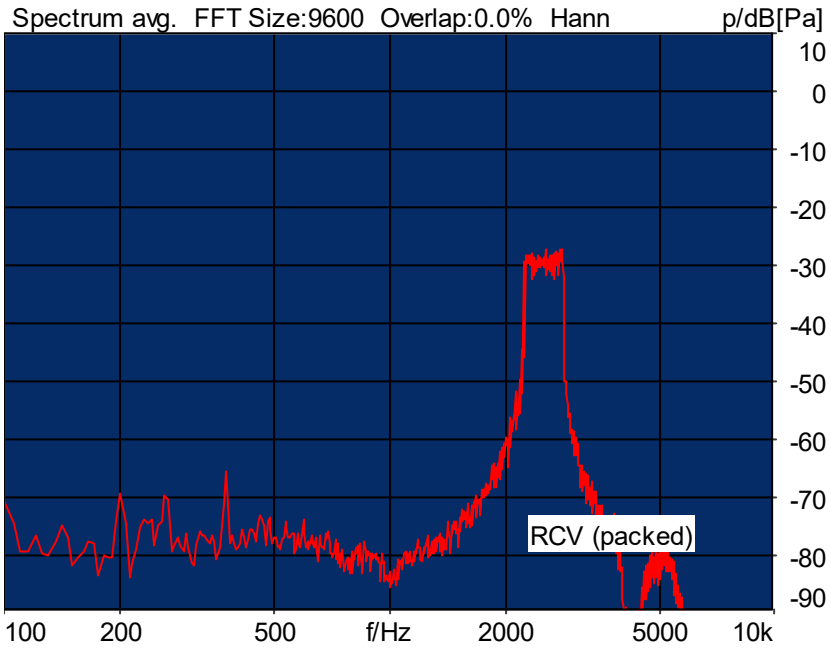
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



Distortion (Noise) RCV (packed): 26.32 dB (4.83%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

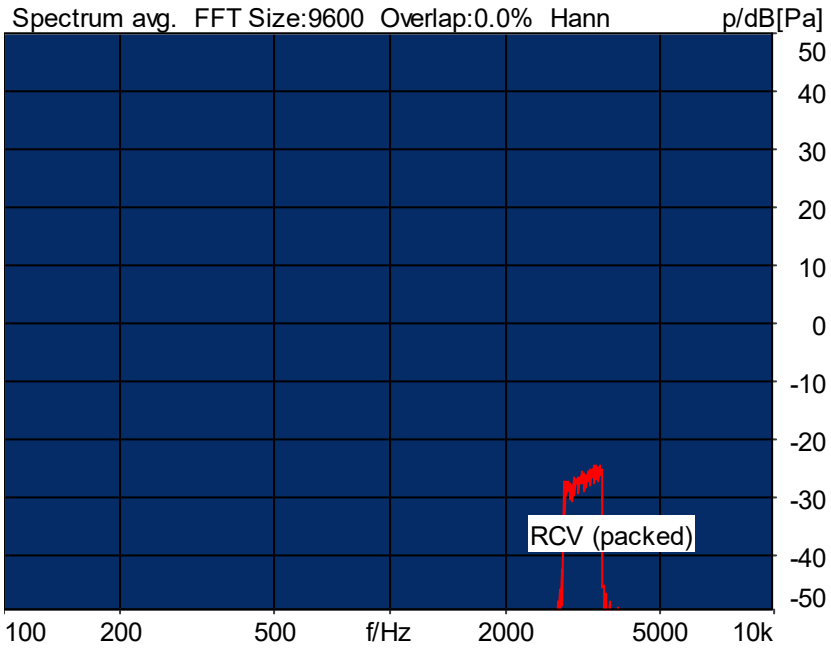
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 23.25 dB (6.88%) Ok

Ok

2026/9/5 3:01 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

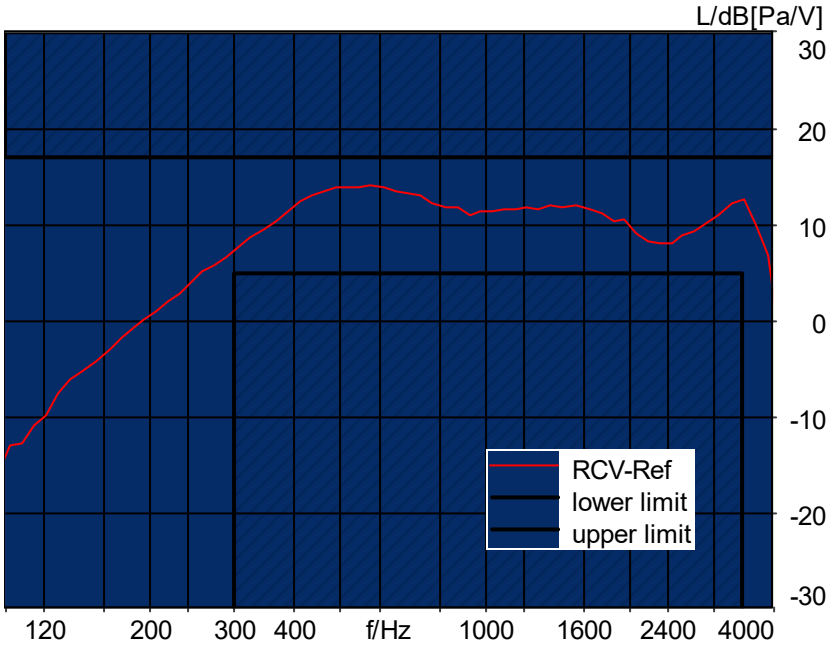
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

2.84 dB at 576.7 Hz Ok

Ok

2026/9/5 3:01 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat

Level adjustment	Channel 1	Gain	-90.00 dB
Level adjustment	Channel 2	Gain	-4.00 dB

NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(4#)

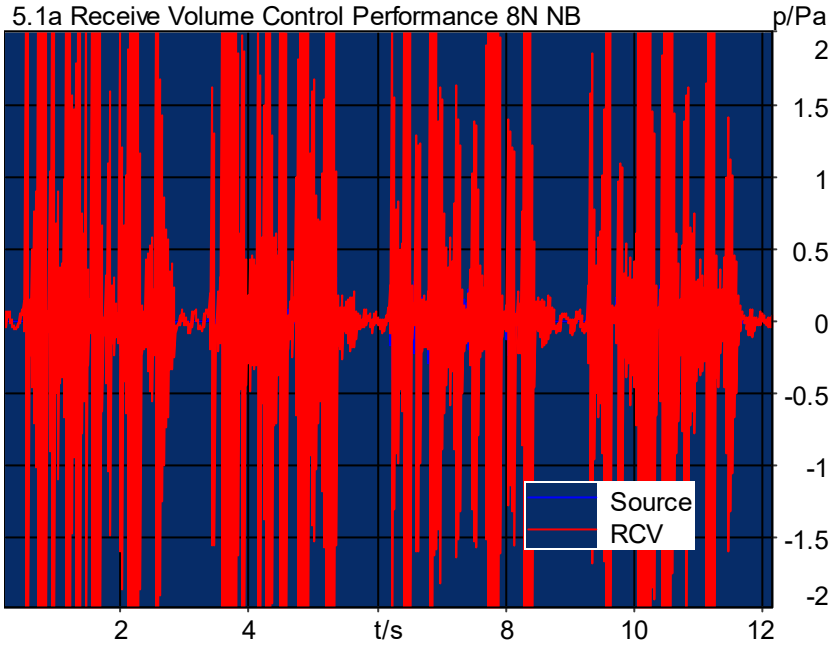
Measurement Object	Ti-CC26080336-LTEB4

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.95	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.05	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.53	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.79	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.82	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.35	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.38	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.59	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.07	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.72	Ti-CC26080336-LTEB4
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.70	Ti-CC26080336-LTEB4
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 514.4 Hz	3.23	Ti-CC26080336-LTEB4

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	90.95 dB[SPL]	80.78%	Ok

Ok

2026/9/12 4:44 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	122.6000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

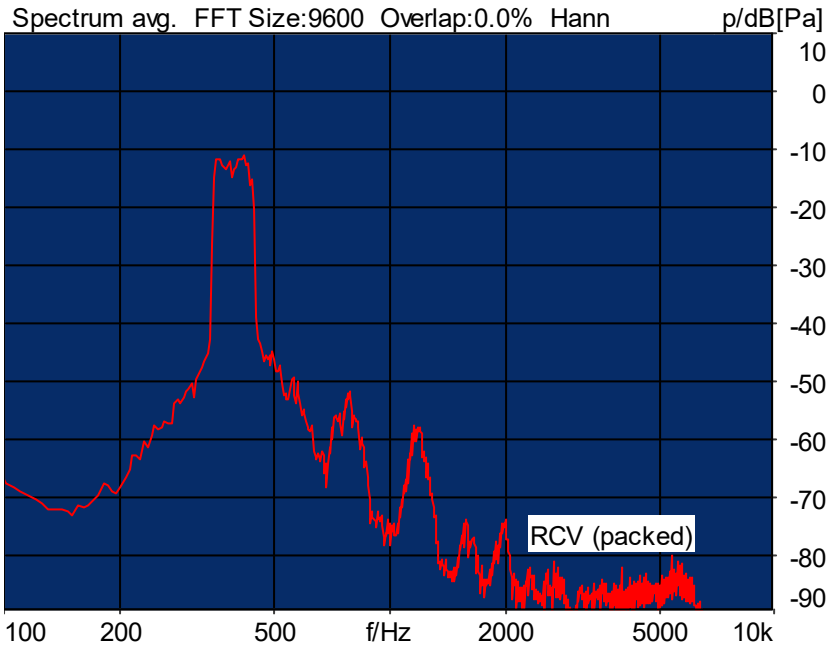
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 36.05 dB (1.58%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

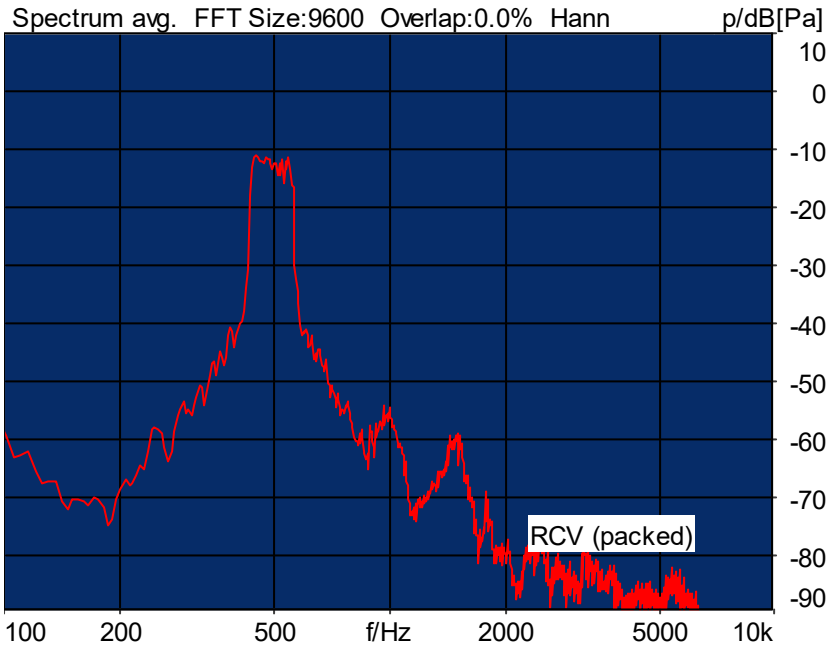
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



Distortion (Noise) RCV (packed): 32.53 dB (2.36%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

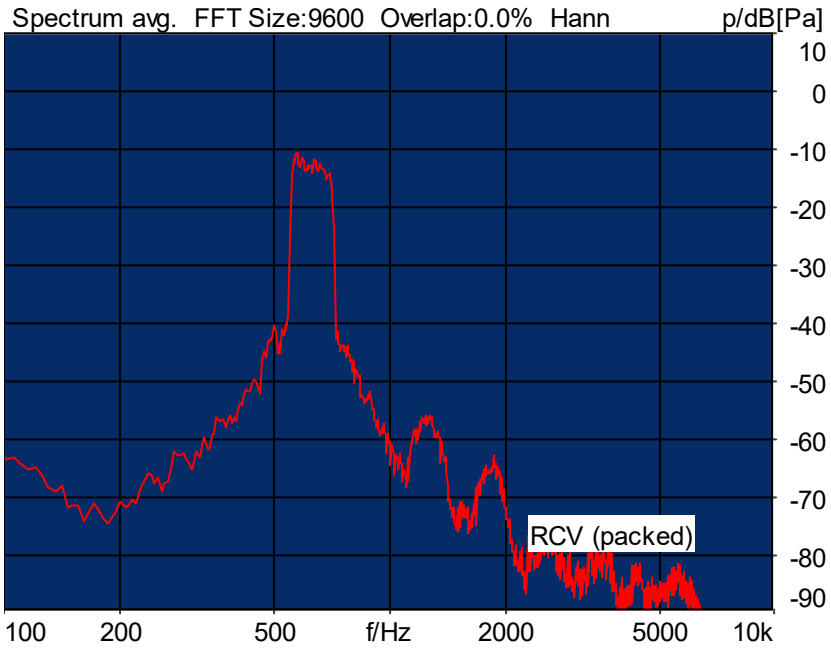
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 32.79 dB (2.29%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

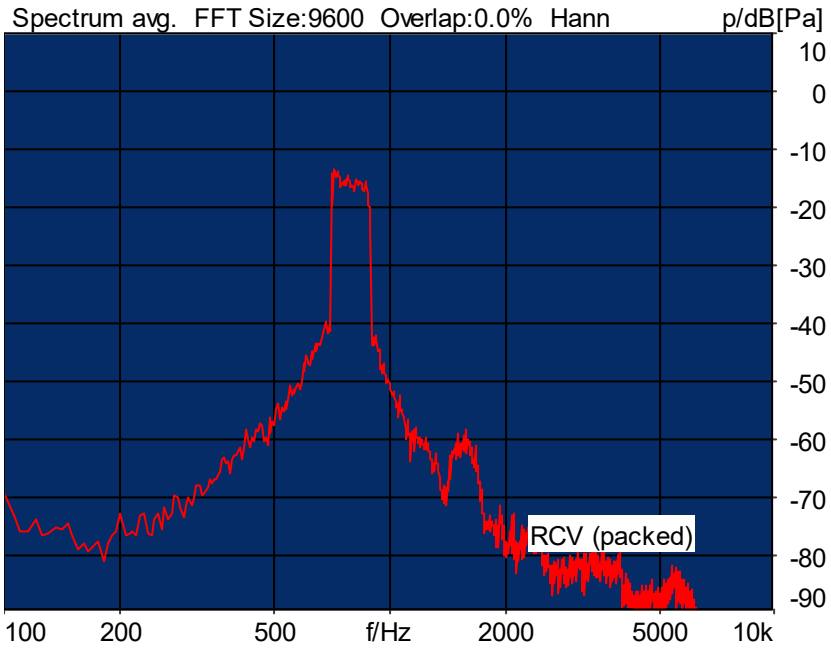
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



Distortion (Noise) RCV (packed): 30.82 dB (2.88%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

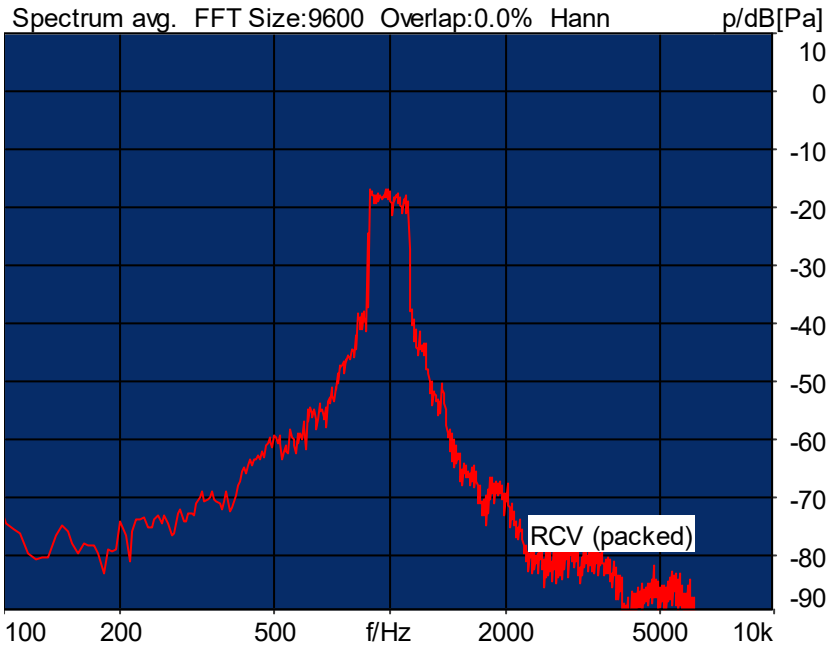
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 25.35 dB (5.40%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

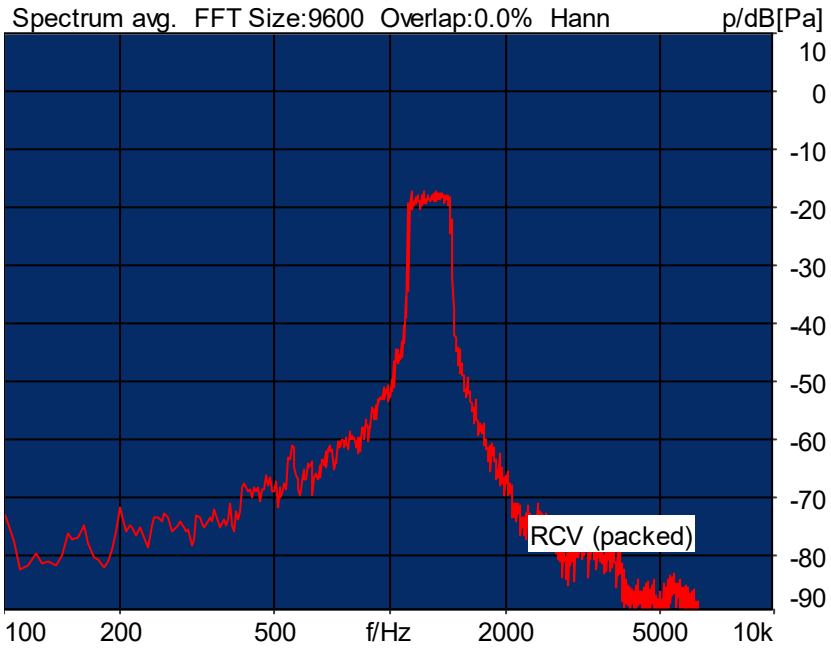
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 25.38 dB (5.38%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

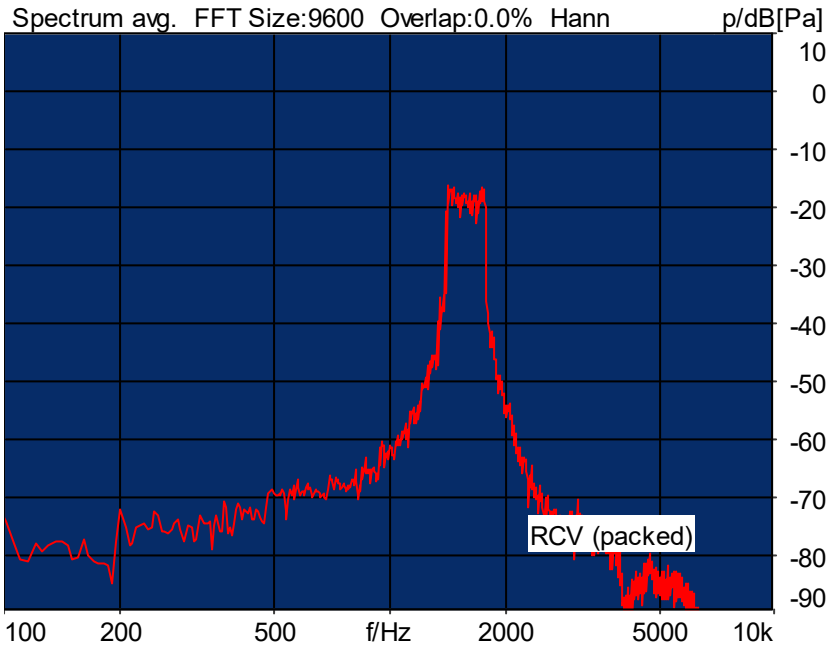
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 25.59 dB (5.25%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

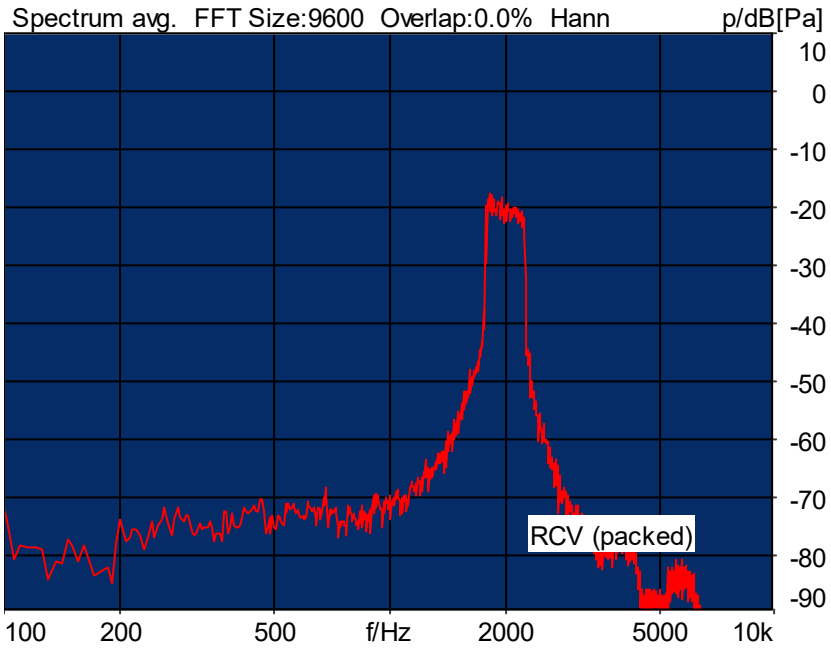
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



Distortion (Noise) RCV (packed): 28.07 dB (3.95%) Ok

Ok

2026/9/5 3:26 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

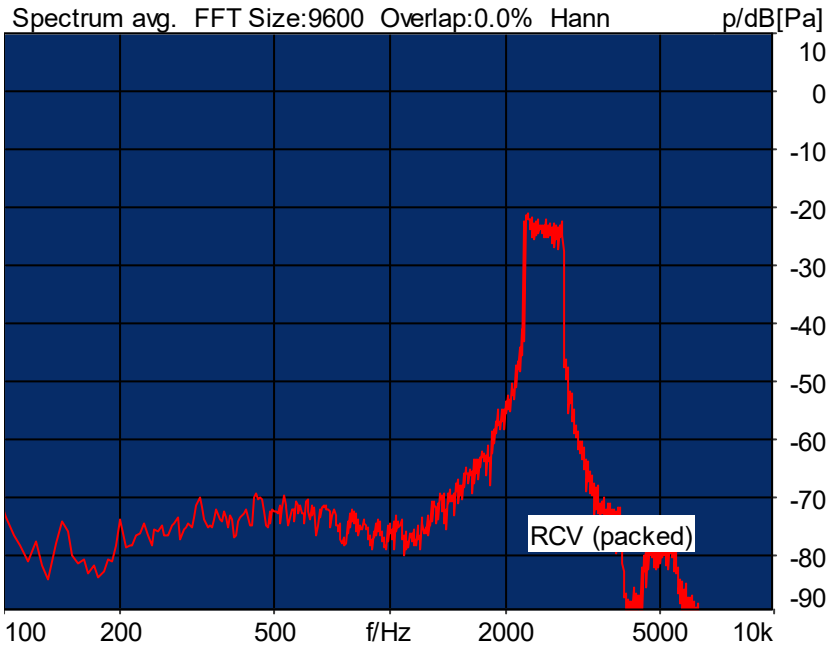
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



Distortion (Noise) RCV (packed): 26.72 dB (4.61%) Ok

Ok

2026/9/5 3:26 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

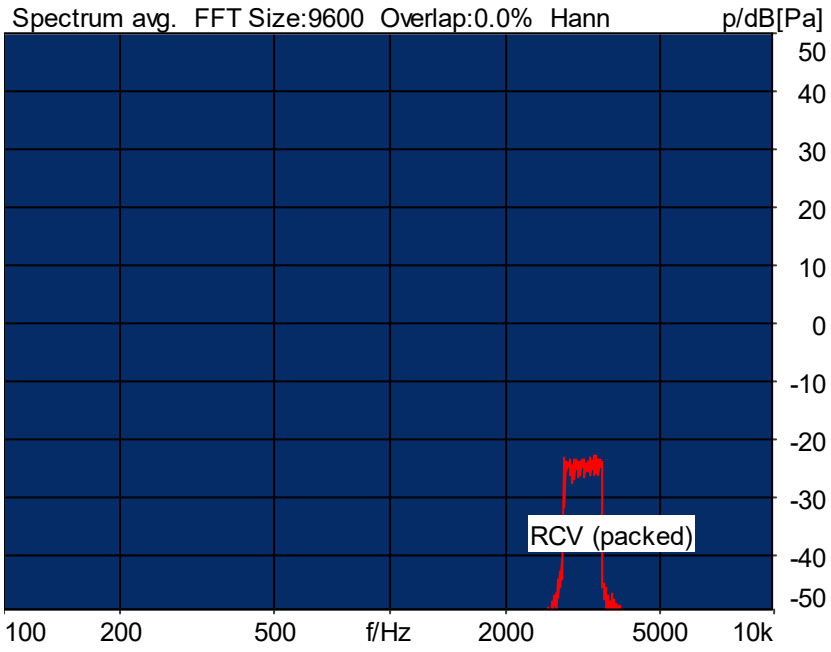
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 22.70 dB (7.33%) Ok

Ok

2026/9/5 3:26 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

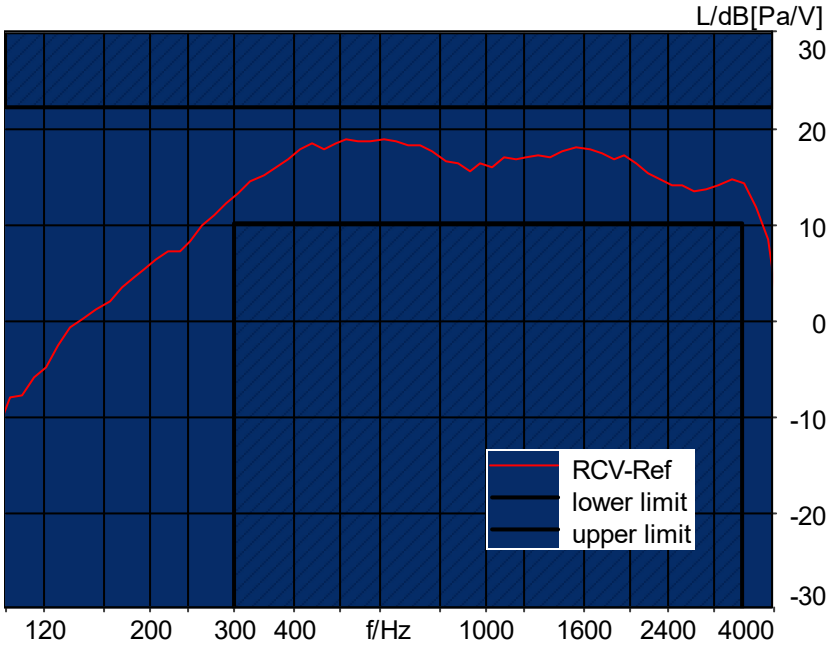
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

3.23 dB at 514.4 Hz Ok

Ok

2026/9/5 3:27 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat

Level adjustment	Channel 1	Gain	-90.00 dB
Level adjustment	Channel 2	Gain	-4.00 dB

NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	119.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(5#)

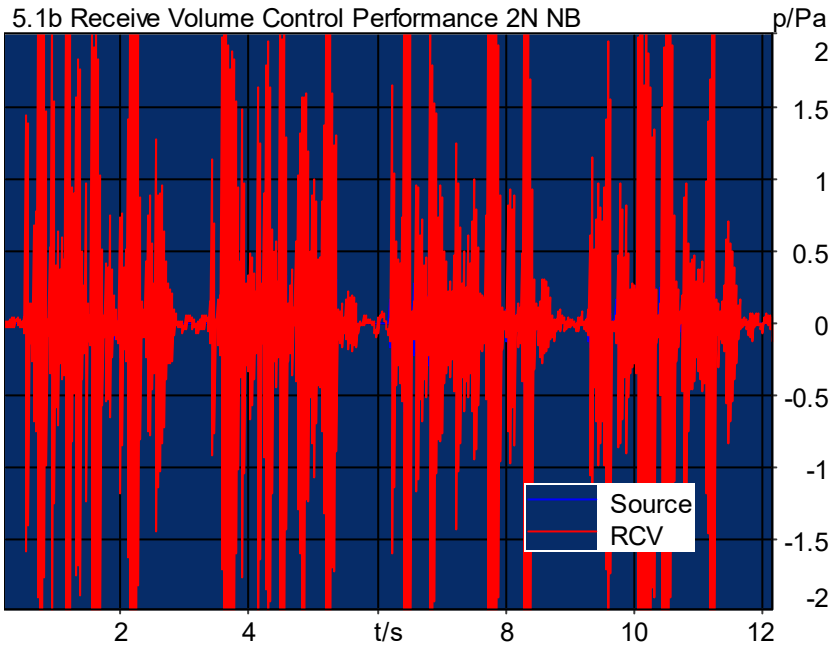
Measurement Object	Ti-CC26080336-LTEB5

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.68	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.82	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.48	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.06	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.99	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.27	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.83	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.79	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.01	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.16	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.26	Ti-CC26080336-LTEB5
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.65	Ti-CC26080336-LTEB5

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	86.68 dB[SPL]	80.74%	Ok

Ok

2026/9/12 5:11 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	108.6000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

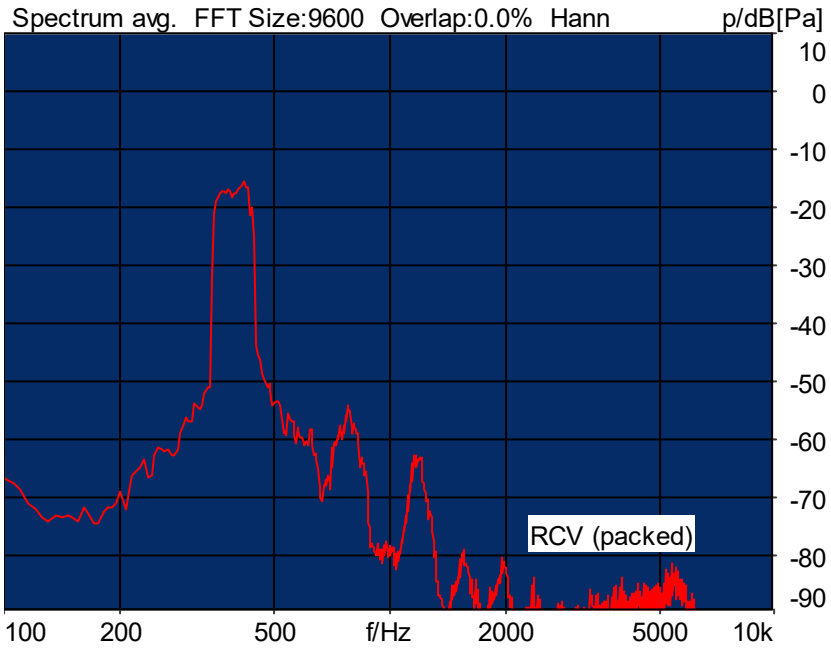
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 35.82 dB (1.62%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

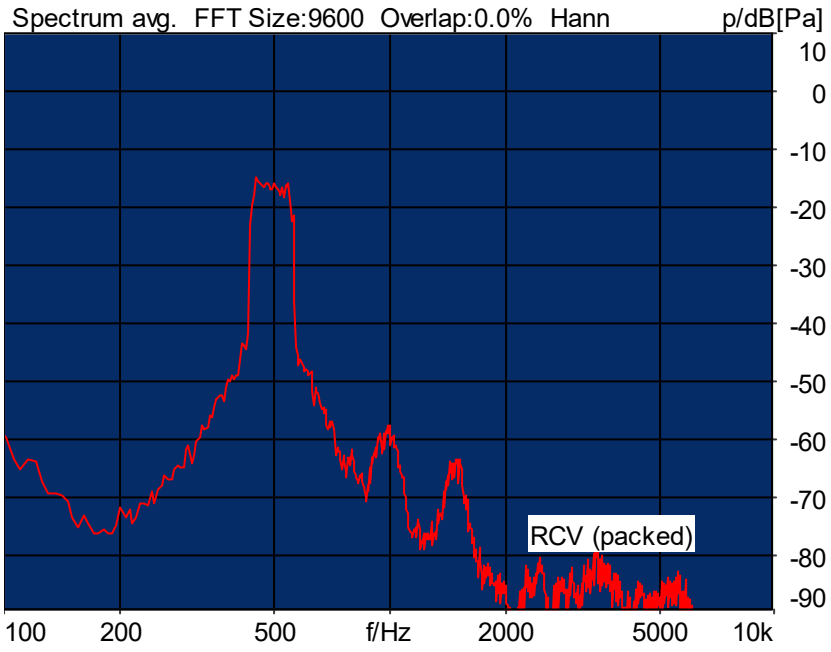
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

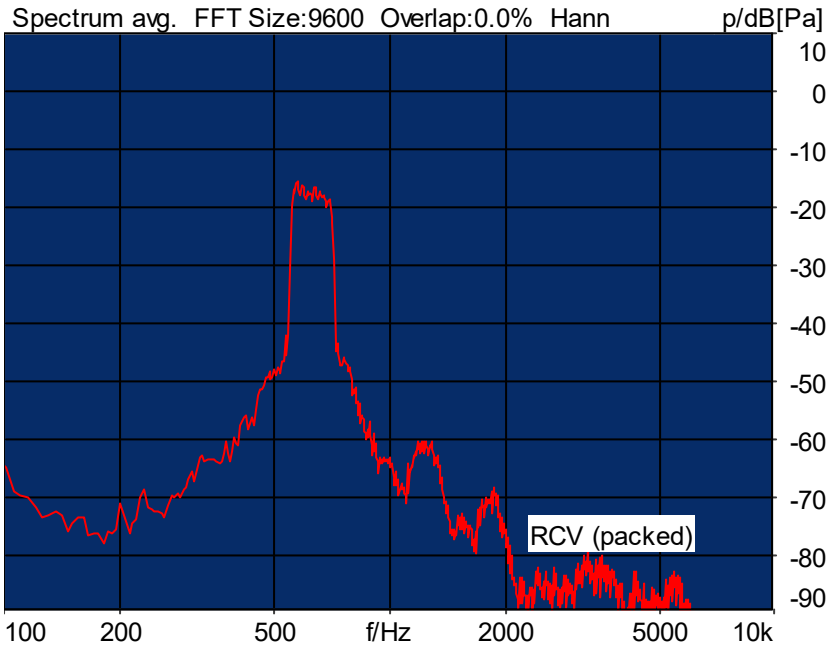
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 32.06 dB (2.49%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

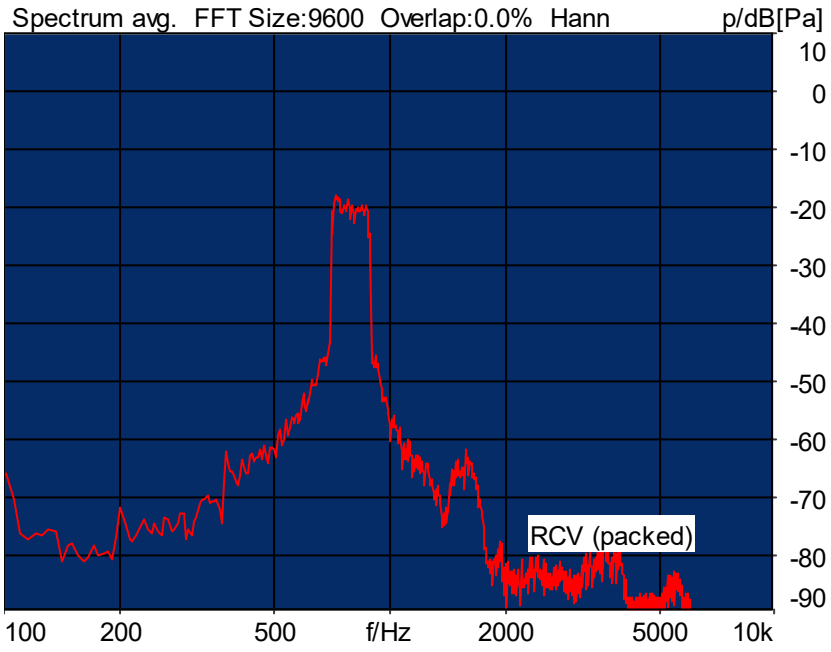
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



Distortion (Noise) RCV (packed): 30.99 dB (2.82%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

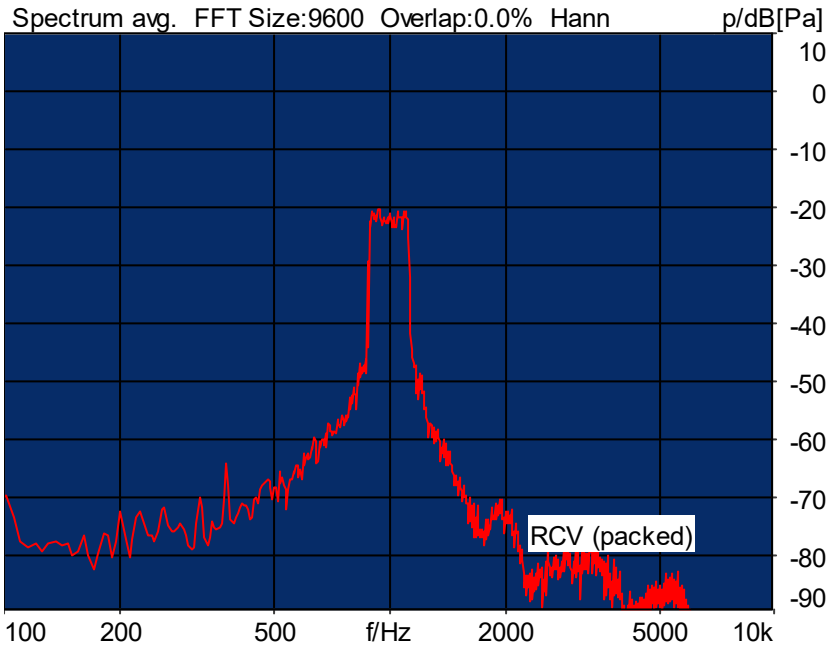
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 29.27 dB (3.44%) Ok

Ok

2026/9/5 3:50 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

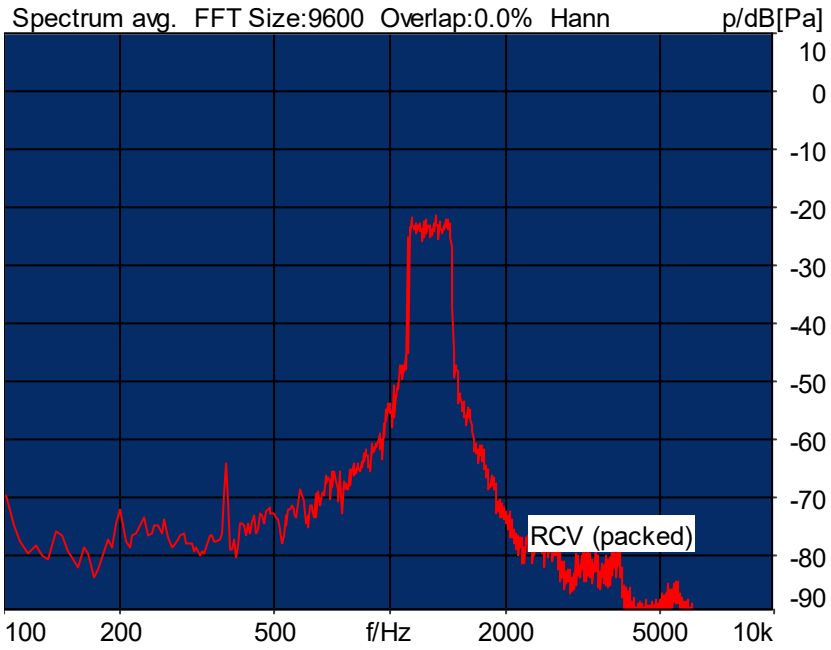
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 25.83 dB (5.11%) Ok

Ok

2026/9/5 3:50 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

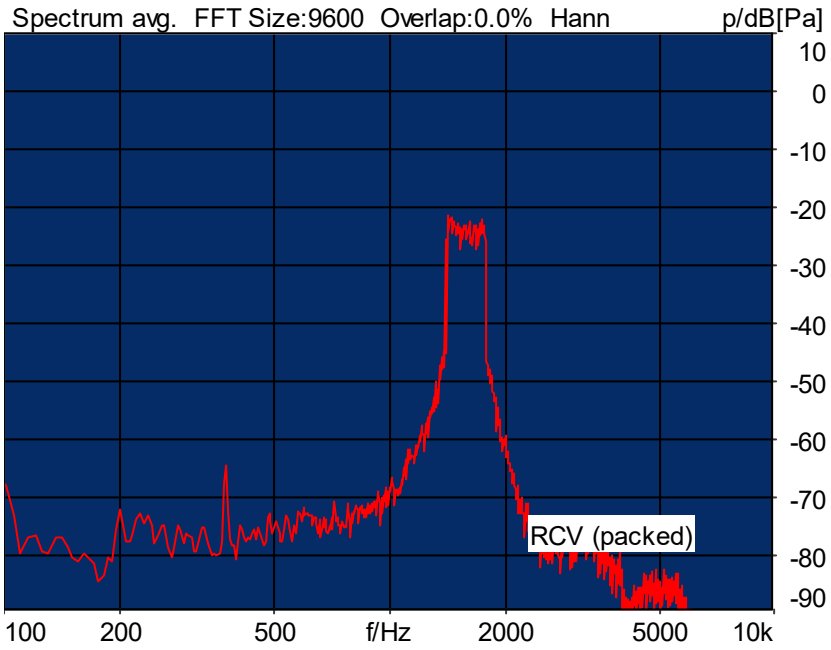
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 28.79 dB (3.63%) Ok

Ok

2026/9/5 3:51 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

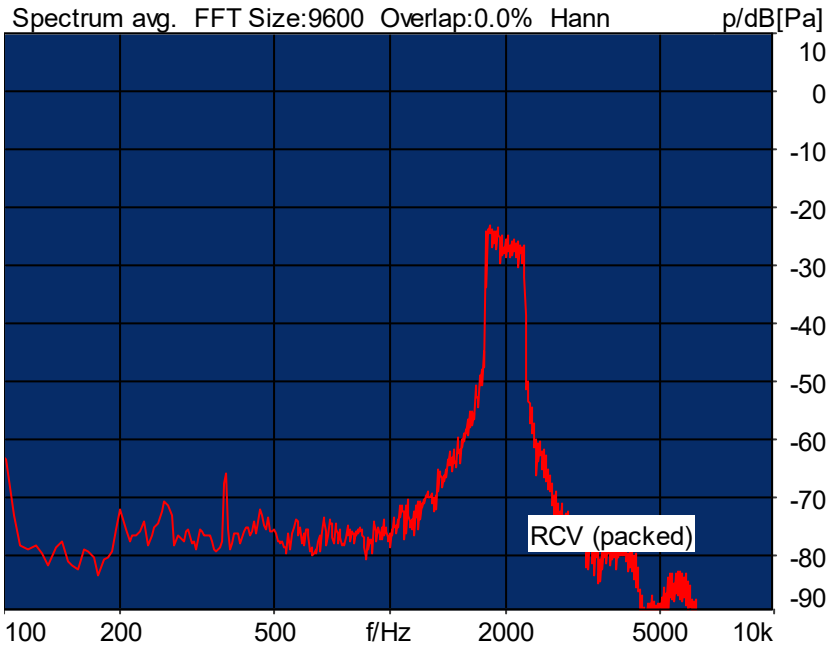
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



Distortion (Noise) RCV (packed): 28.01 dB (3.98%) Ok

Ok

2026/9/5 3:51 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

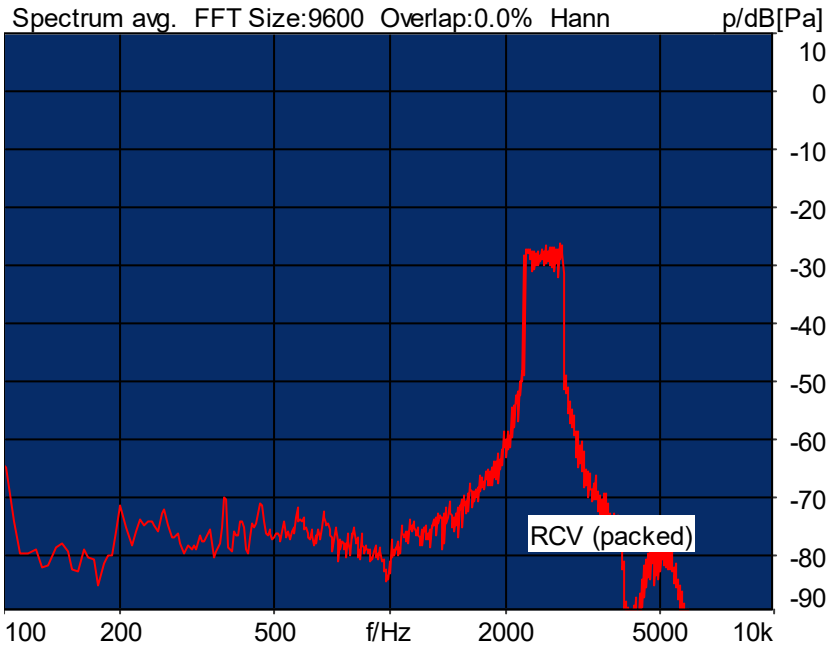
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



Distortion (Noise) RCV (packed): 26.16 dB (4.92%) Ok

Ok

2026/9/5 3:52 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

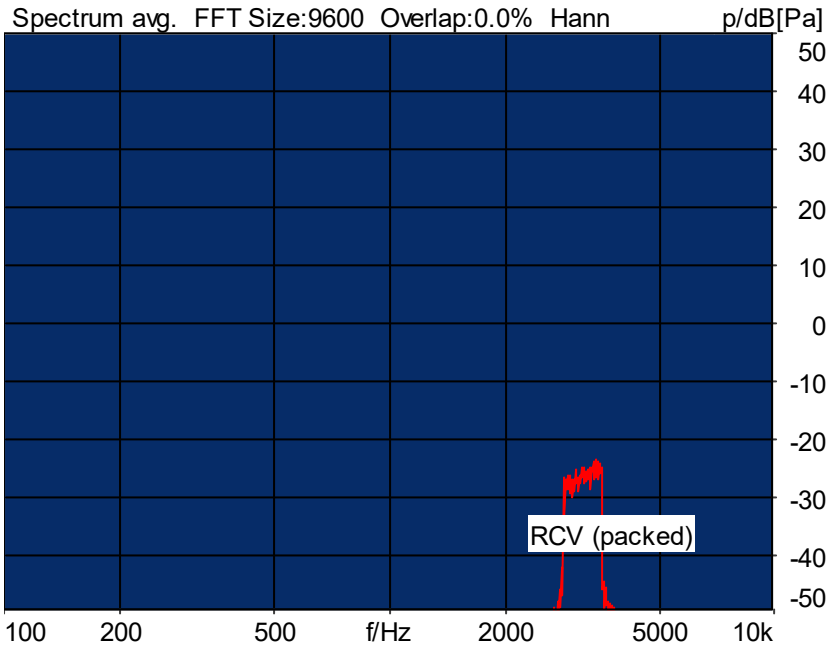
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 23.26 dB (6.87%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

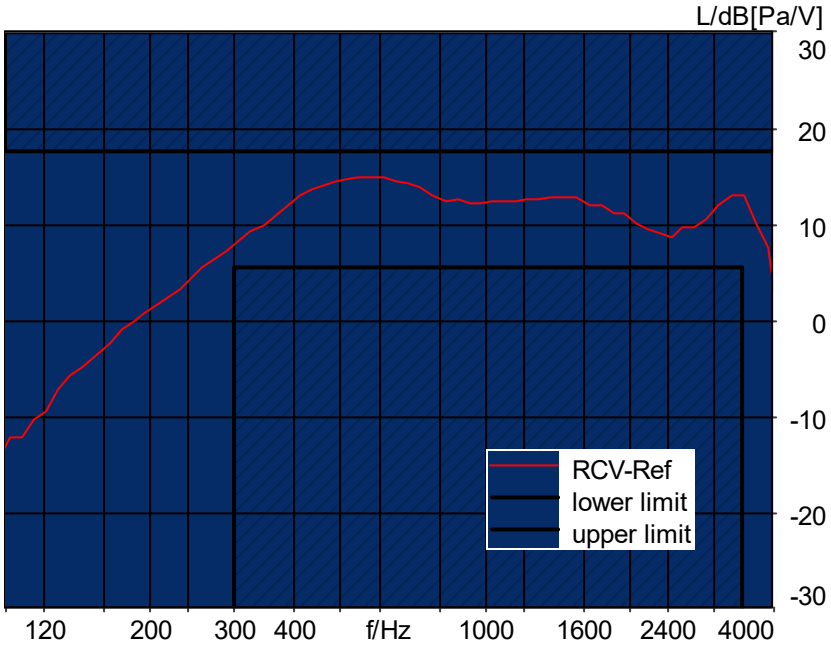
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

2.65 dB at 611.7 Hz Ok

Ok

2026/9/5 3:52 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat

Level adjustment	Channel 1	Gain	-90.00 dB
Level adjustment	Channel 2	Gain	-4.00 dB

NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(6#)

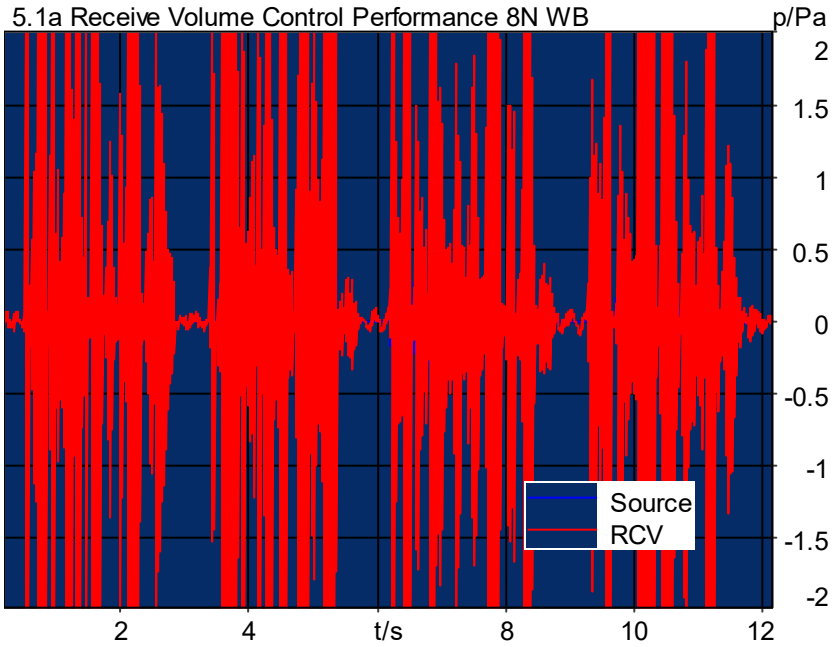
Measurement Object	Ti-CC26080336-LTEB5

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.38	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.05	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.70	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.25	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.93	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.71	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.58	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.50	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.06	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.33	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.59	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.70	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.24	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.22	Ti-CC26080336-LTEB5
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.71	Ti-CC26080336-LTEB5
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	1.85	Ti-CC26080336-LTEB5

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-13.2



Channel	Speech level	Activity	
RCV	91.38 dB[SPL]	80.88%	Ok

Ok

2026/9/12 5:18 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	108.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

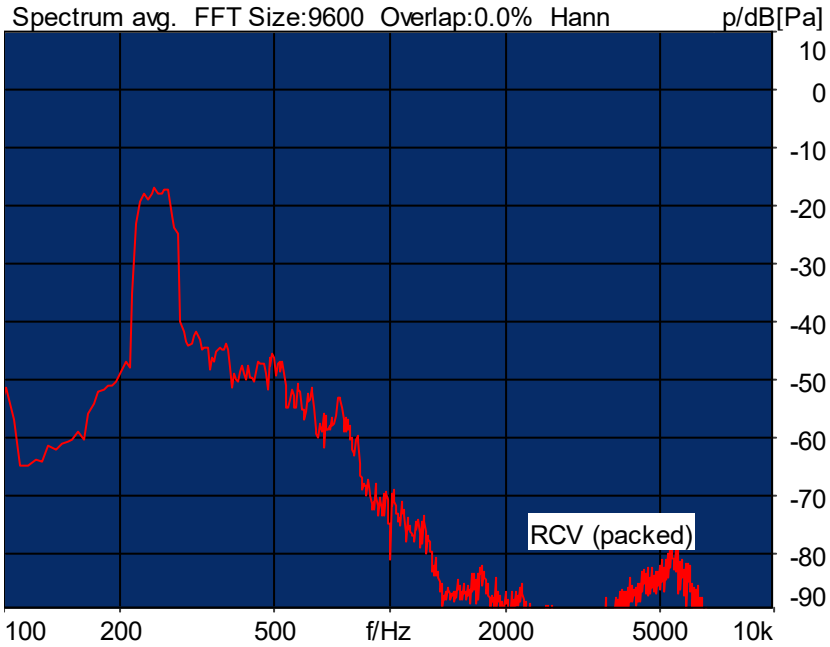
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 26.05 dB (4.98%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

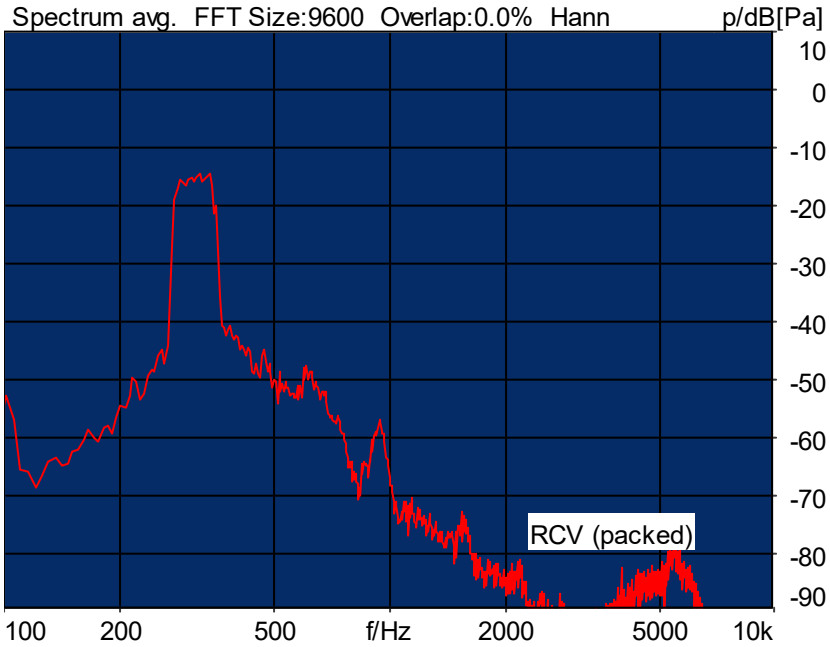
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 29.70 dB (3.27%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

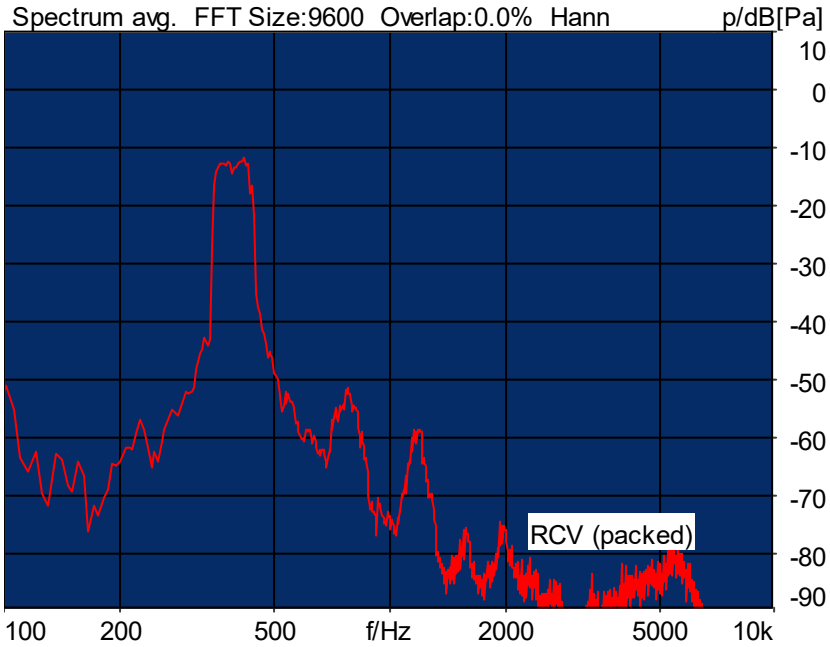
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.25 dB (1.54%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

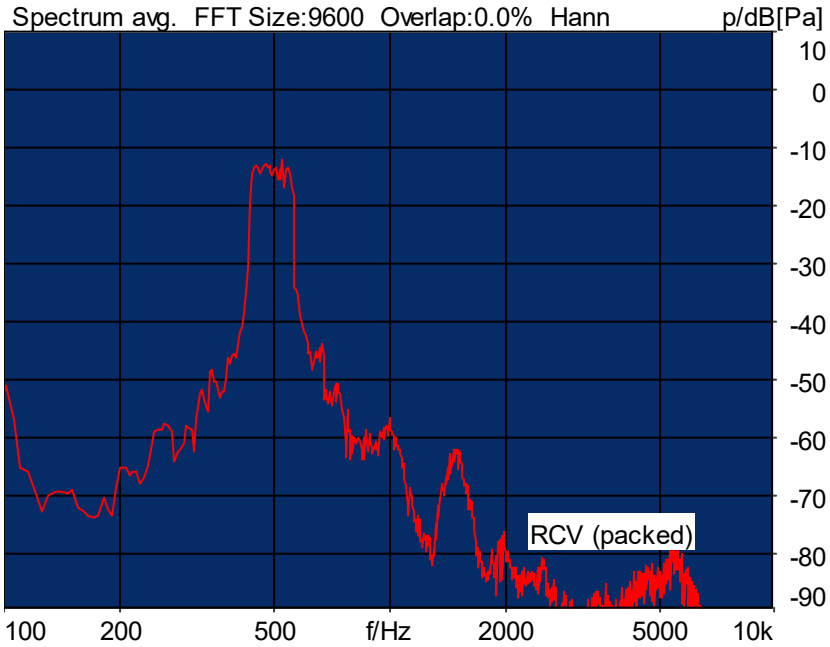
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.93 dB (2.26%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

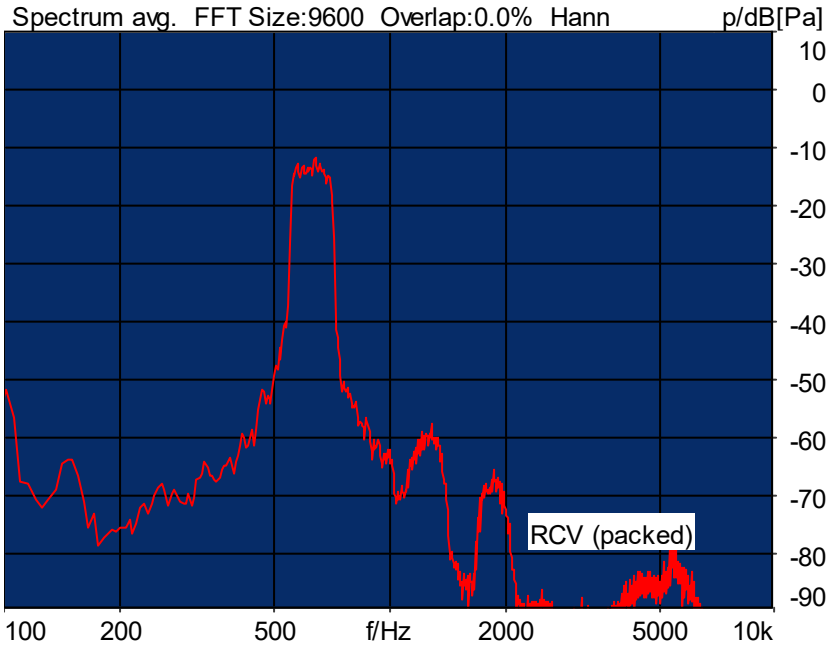
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.71 dB (1.30%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

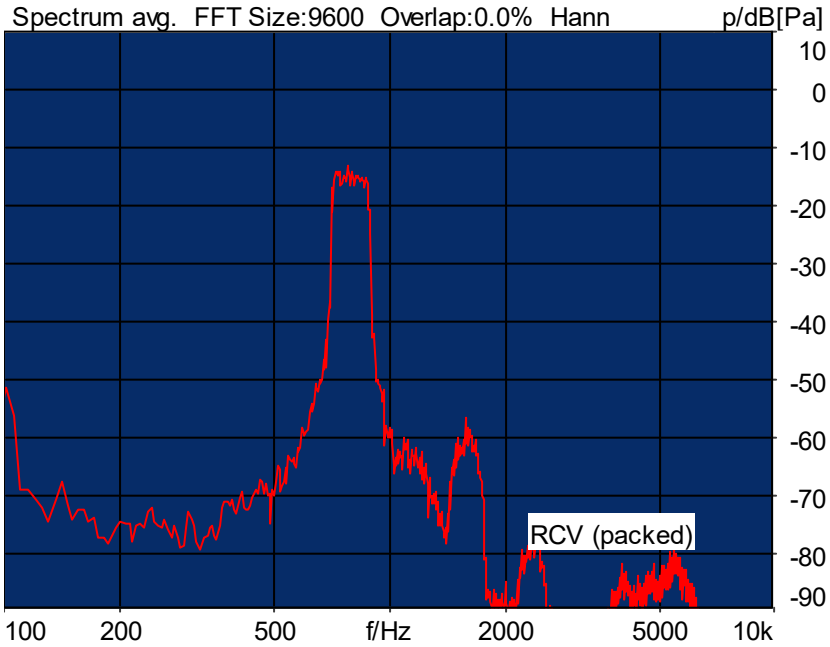
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.58 dB (1.32%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

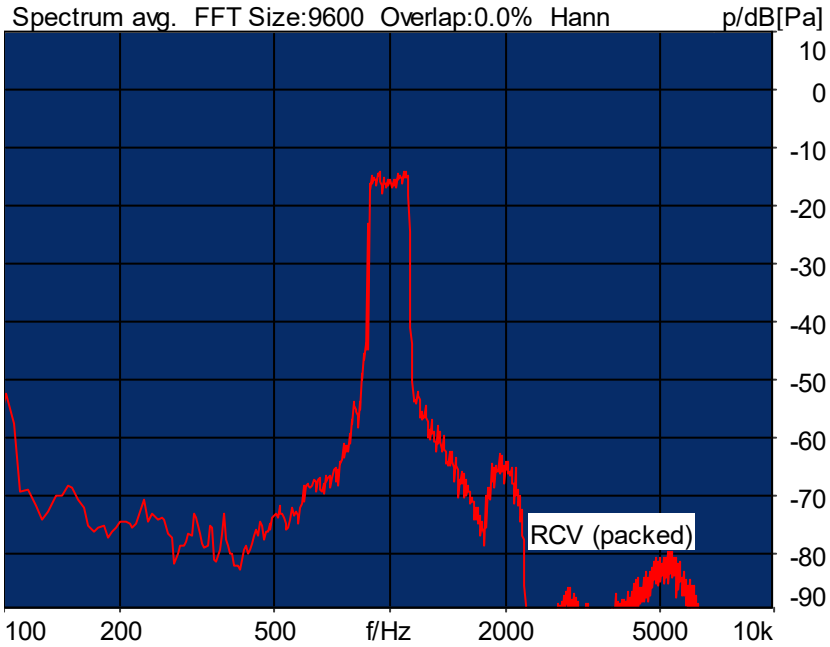
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.50 dB (1.19%) Ok

Ok

2026/9/8 16:40 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

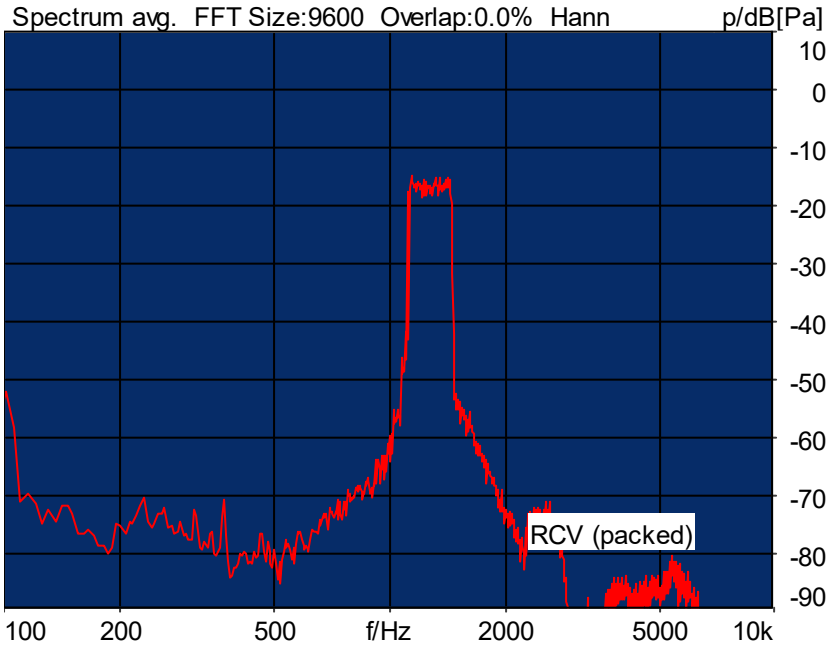
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.06 dB (2.80%) Ok

Ok

2026/9/8 16:41 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

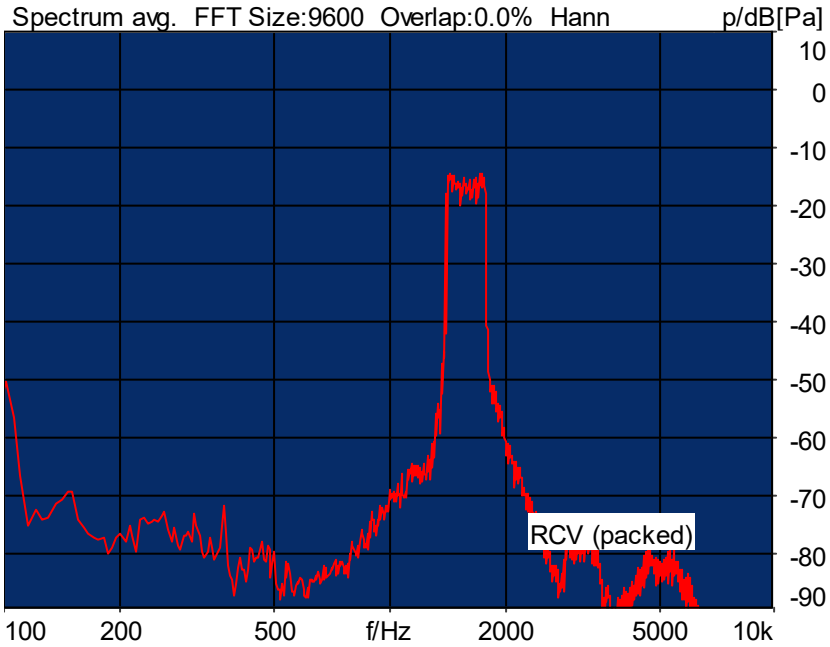
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.33 dB (1.21%) Ok

Ok

2026/9/8 16:41 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

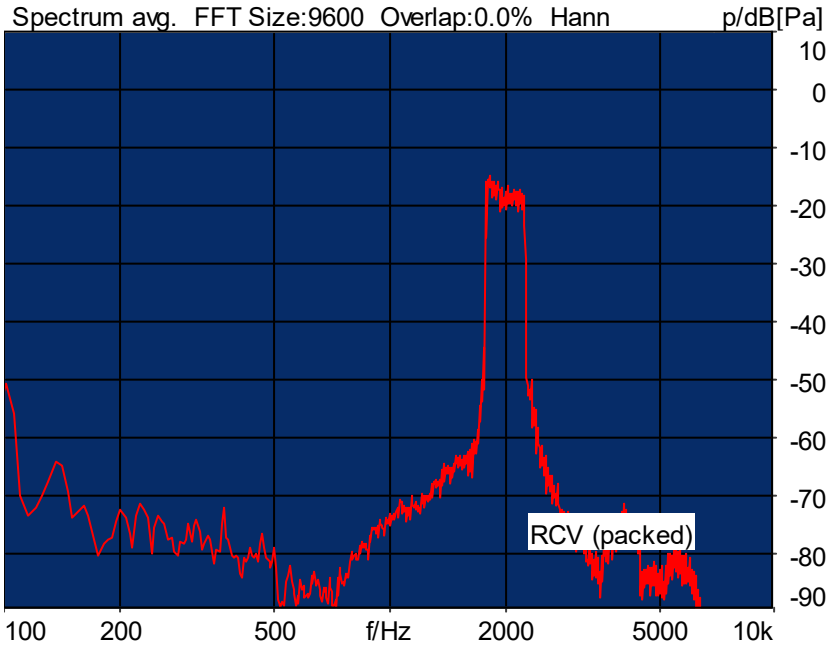
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.59 dB (1.32%) Ok

Ok

2026/9/8 16:41 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

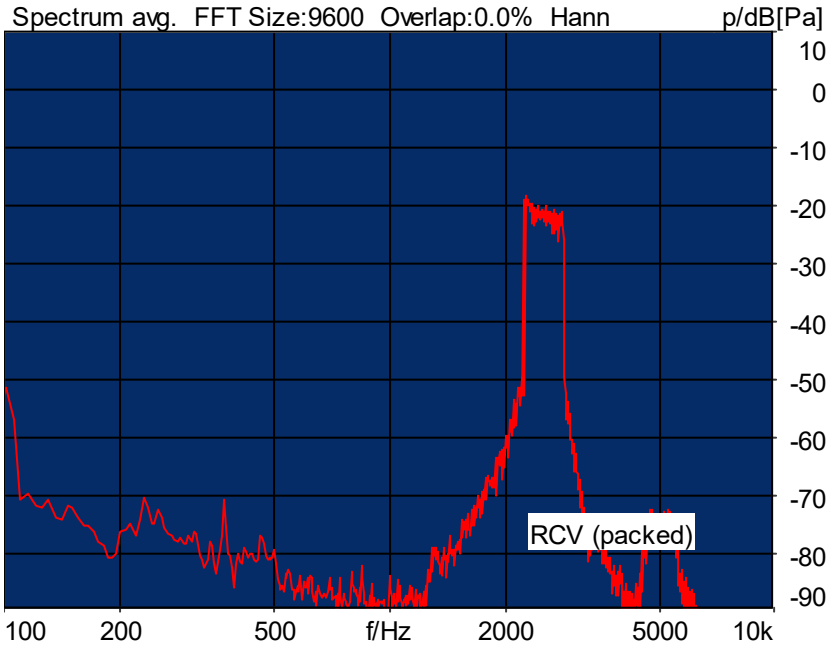
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.70 dB (1.84%) Ok

Ok

2026/9/8 16:42 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

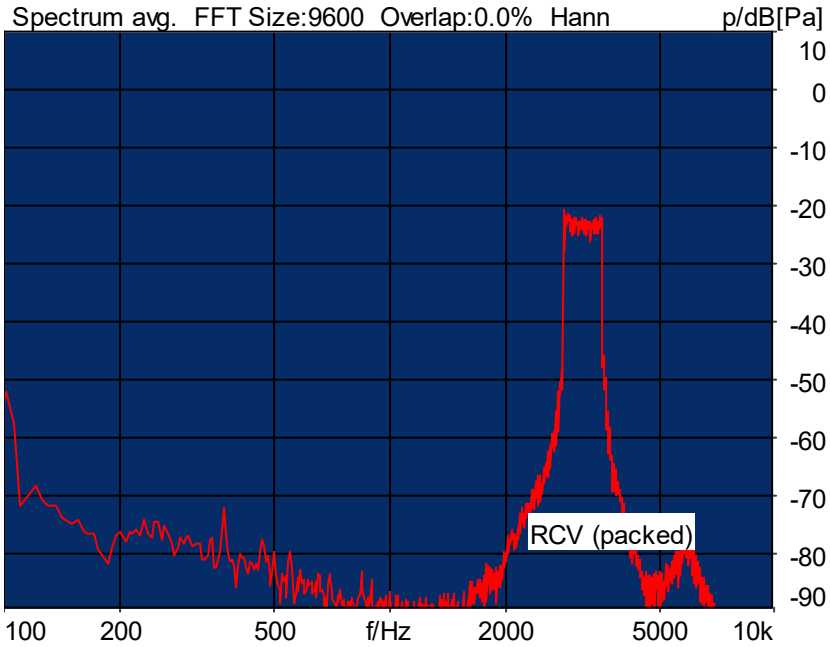
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.24 dB (2.18%) Ok

Ok

2026/9/8 16:42 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

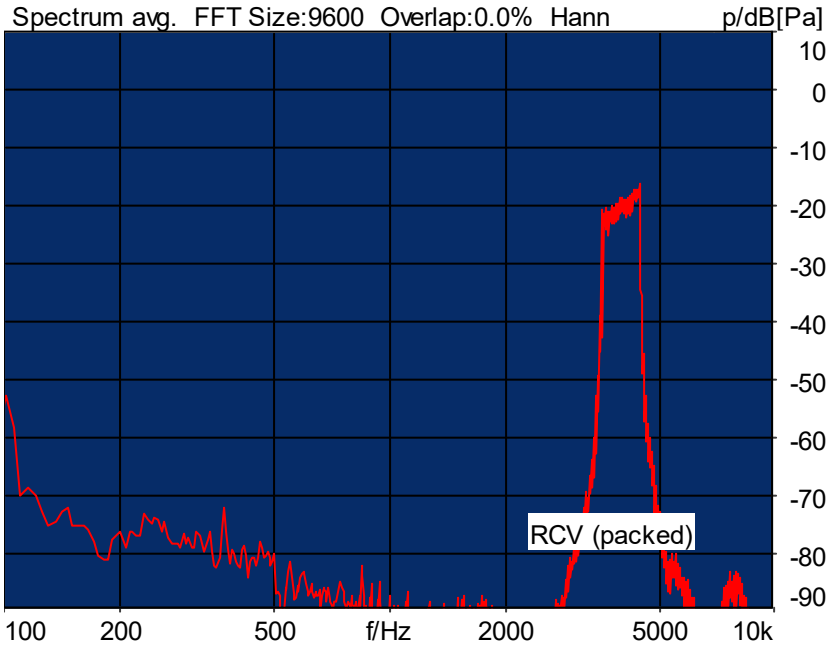
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.22 dB (2.45%) Ok

Ok

2026/9/8 16:43 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

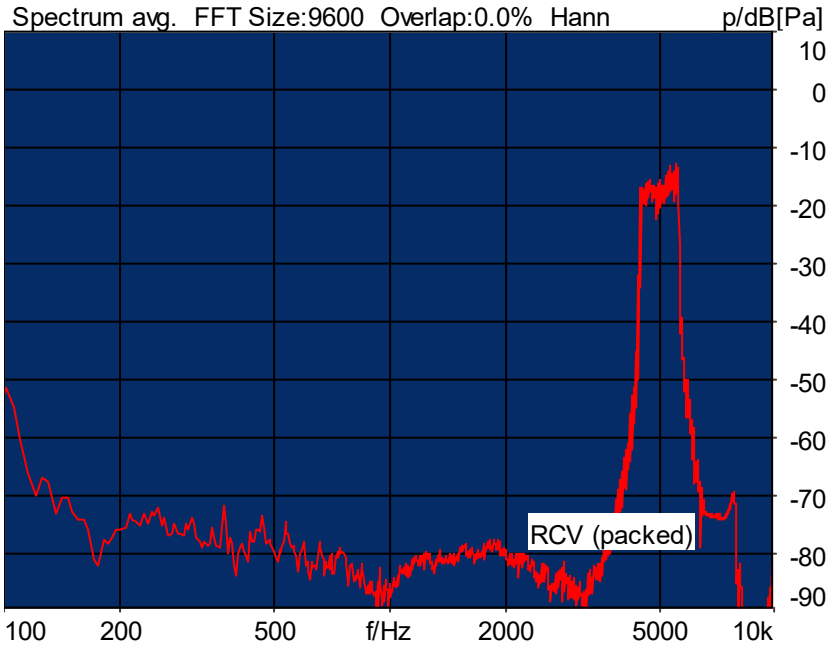
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.71 dB (2.60%) Ok

Ok

2026/9/8 16:43 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

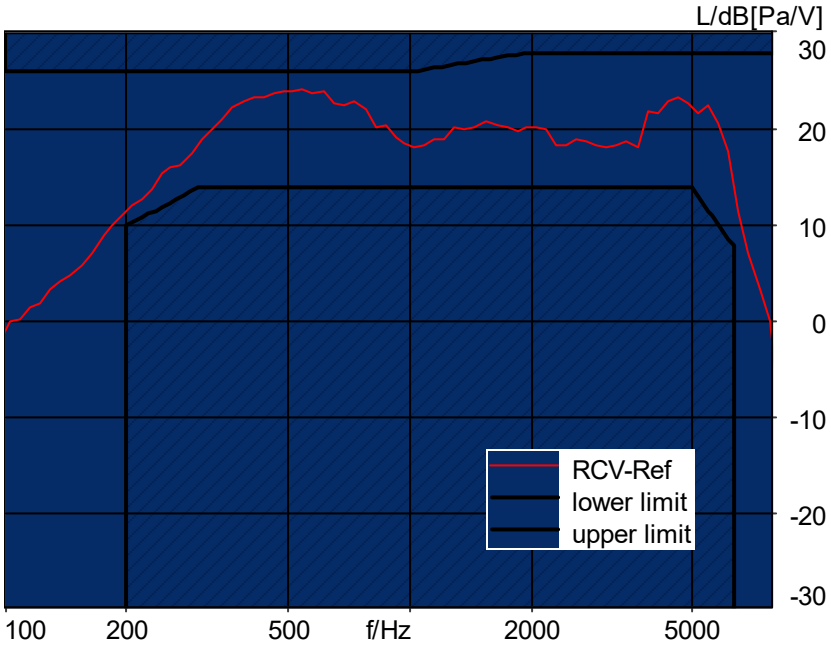
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.85 dB at 544.4 Hz Ok

Ok

2026/9/8 19:51 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(7#)

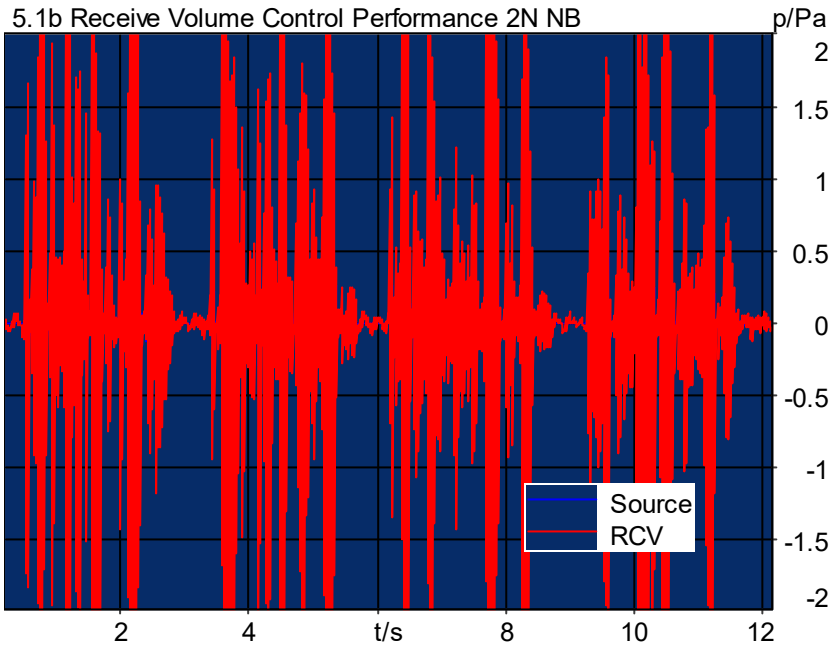
Measurement Object	Ti-CC26080336-LTEB12

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.71	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.33	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.63	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.44	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.19	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.11	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.08	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.92	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.67	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.11	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.80	Ti-CC26080336-LTEB12
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.54	Ti-CC26080336-LTEB12

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	86.71 dB[SPL]	80.69%	Ok

Ok

2026/9/12 5:24 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	124.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

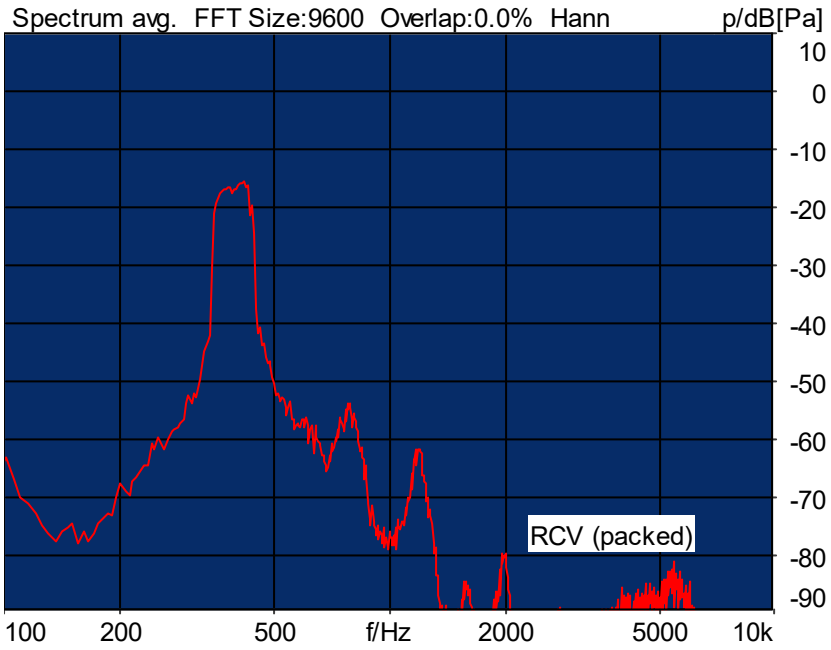
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 34.33 dB (1.92%) Ok

Ok

2026/9/5 3:55 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

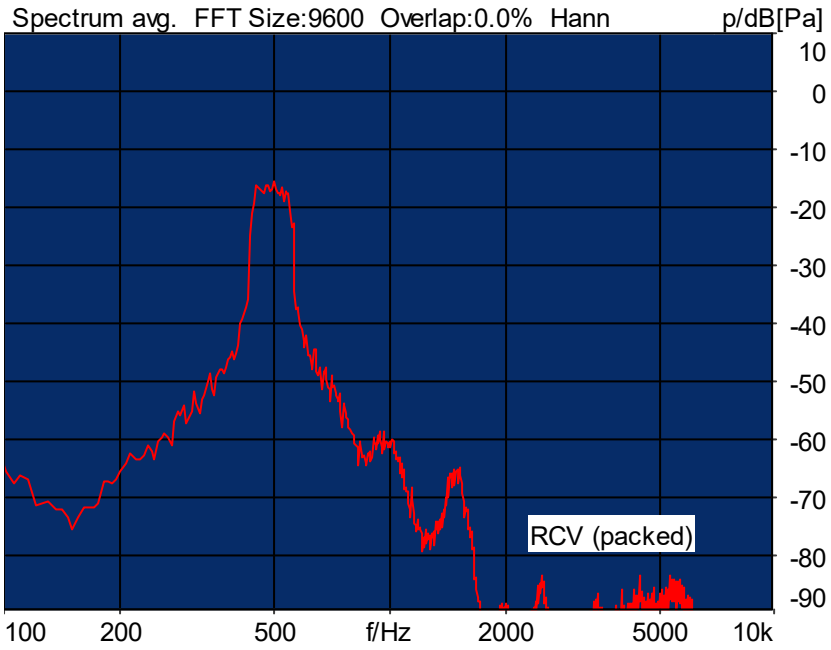
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



Distortion (Noise) RCV (packed): 29.63 dB (3.30%) Ok

Ok

2026/9/5 3:56 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

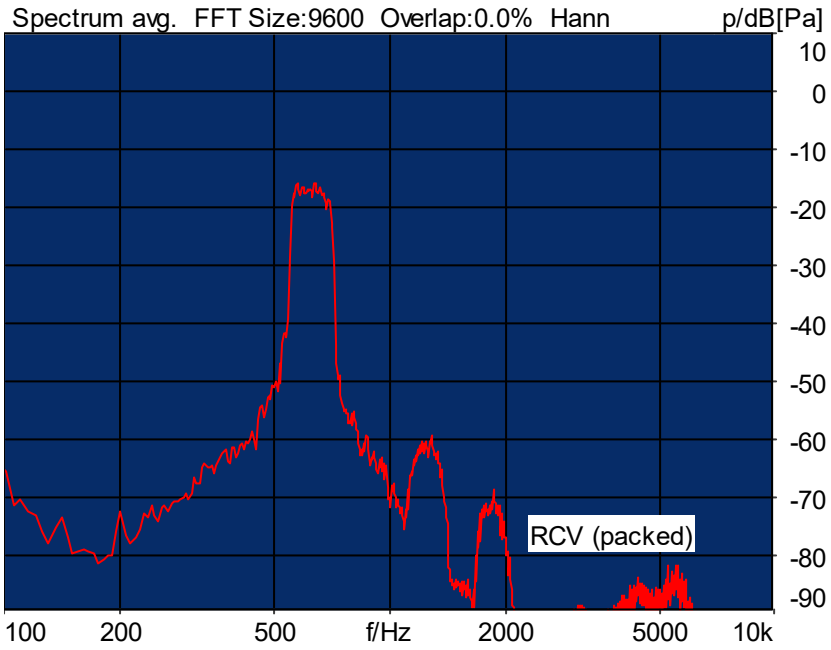
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 36.44 dB (1.51%) Ok

Ok

2026/9/5 3:56 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

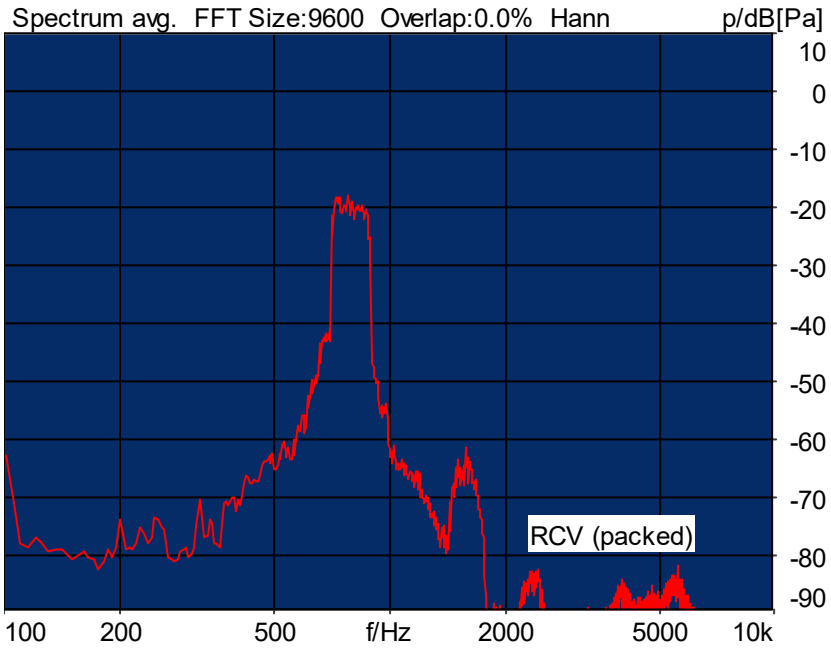
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



Distortion (Noise) RCV (packed): 32.19 dB (2.46%) Ok

Ok

2026/9/5 3:56 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

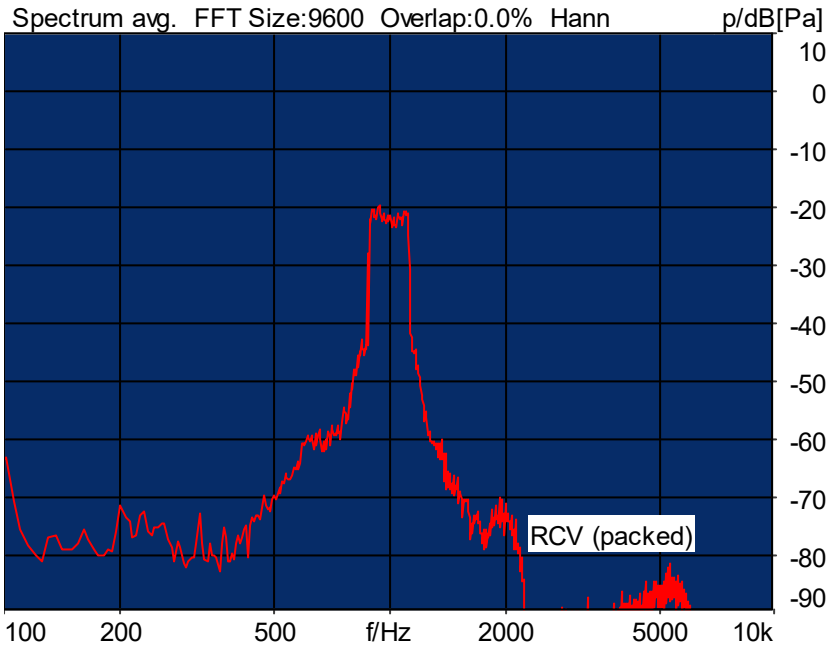
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 28.11 dB (3.93%) Ok

Ok

2026/9/5 3:57 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

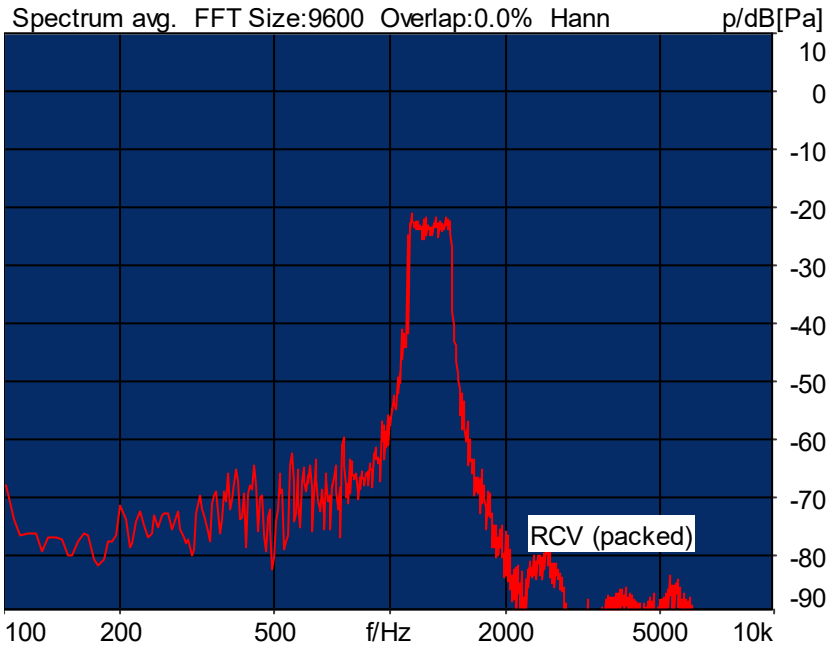
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 25.08 dB (5.57%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

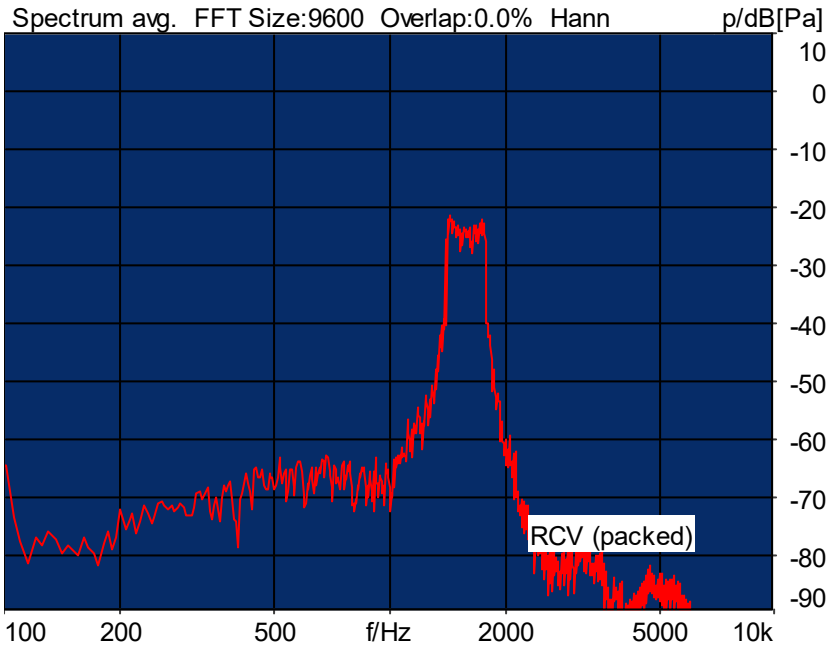
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 24.92 dB (5.67%) Ok

Ok

2026/9/5 3:58 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

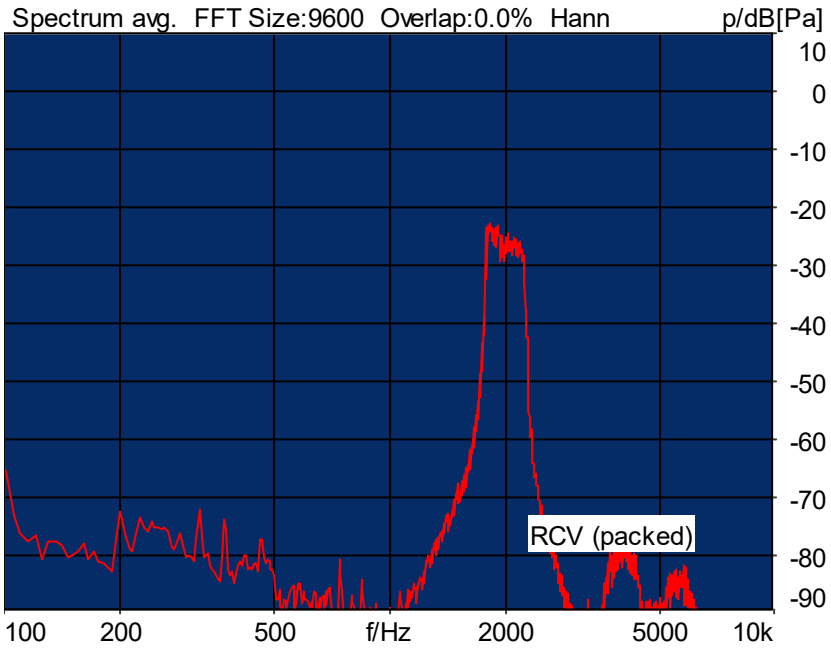
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



Distortion (Noise) RCV (packed): 29.67 dB (3.28%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

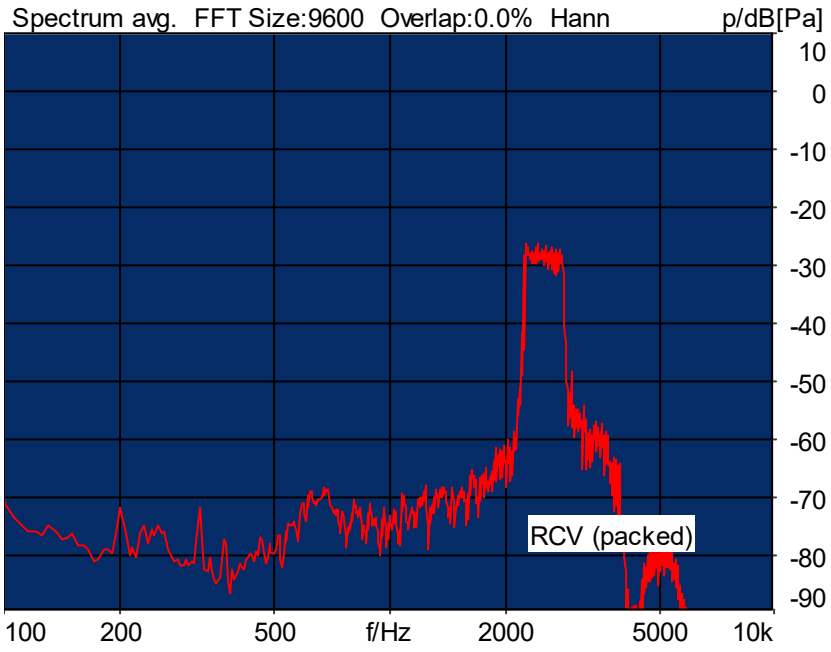
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

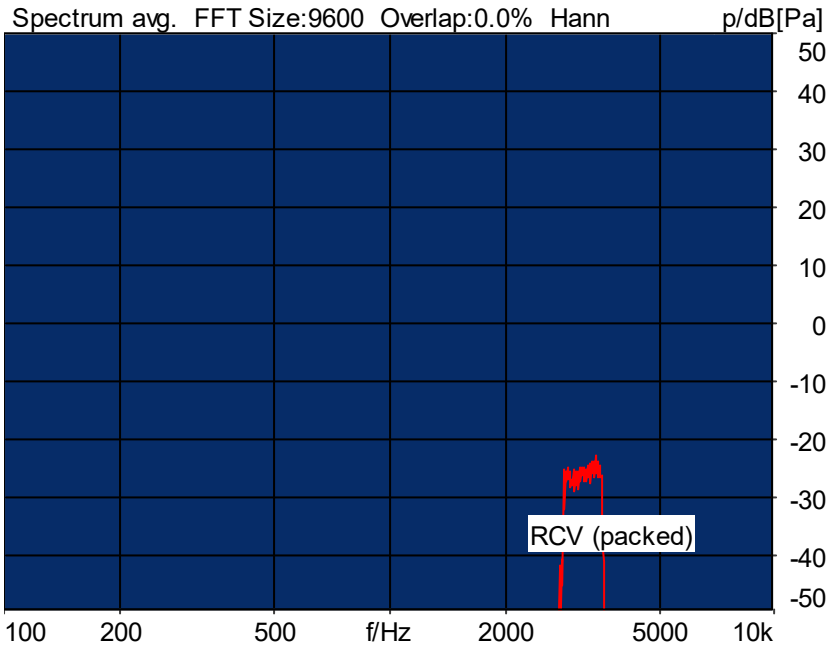
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 29.80 dB (3.24%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

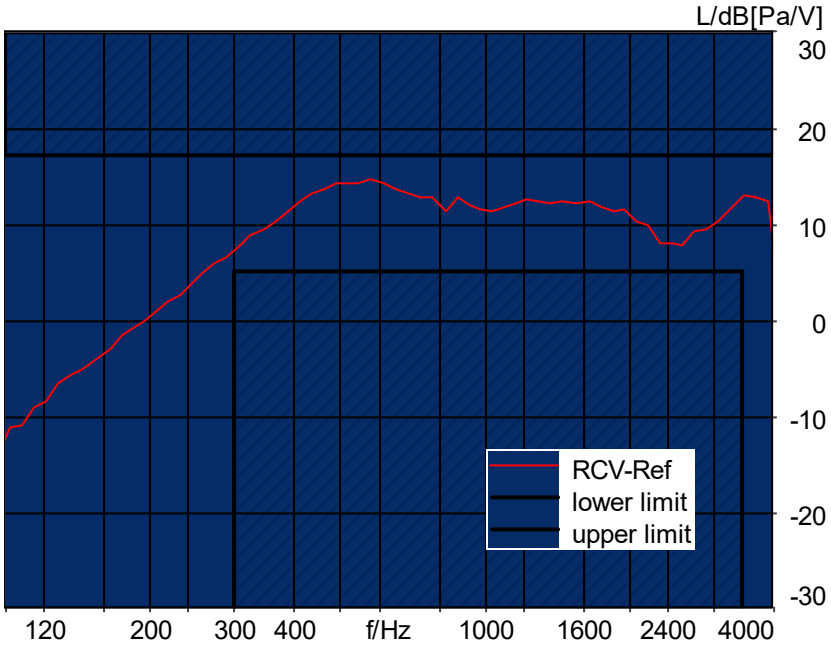
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

2.54 dB at 576.7 Hz Ok

Ok

2026/9/5 3:59 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat

Level adjustment	Channel 1	Gain	-90.00 dB
Level adjustment	Channel 2	Gain	-4.00 dB

NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	120.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(8#)

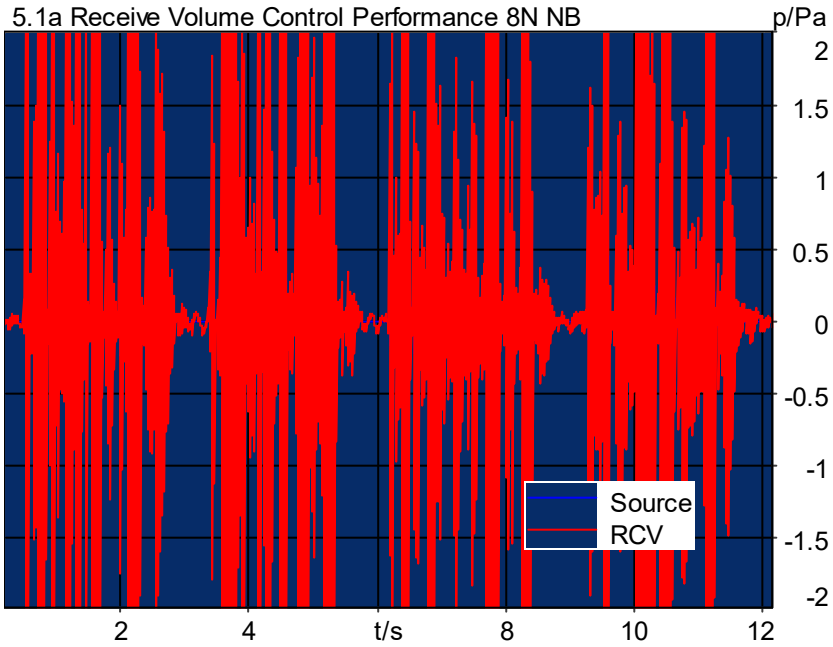
Measurement Object	Ti-CC26080336-LTEB12

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.22	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.96	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.10	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.45	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.35	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.66	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.58	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.33	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.03	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.24	Ti-CC26080336-LTEB12
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.13	Ti-CC26080336-LTEB12
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.30	Ti-CC26080336-LTEB12

5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Channel	Speech level	Activity	
RCV	91.22 dB[SPL]	80.98%	Ok

Ok

2026/9/12 5:20 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	116.9000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

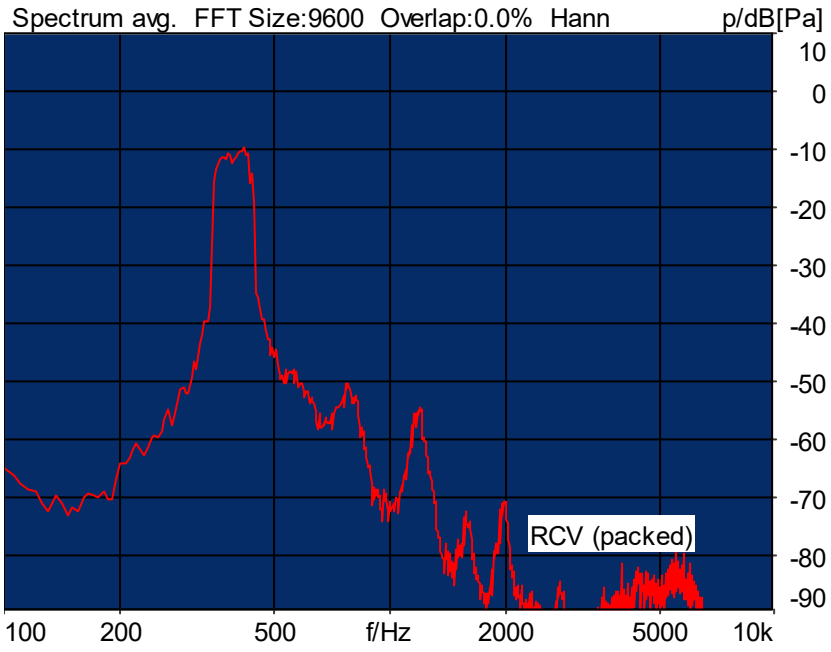
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 34.96 dB (1.79%) Ok

Ok

2026/9/5 4:16 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

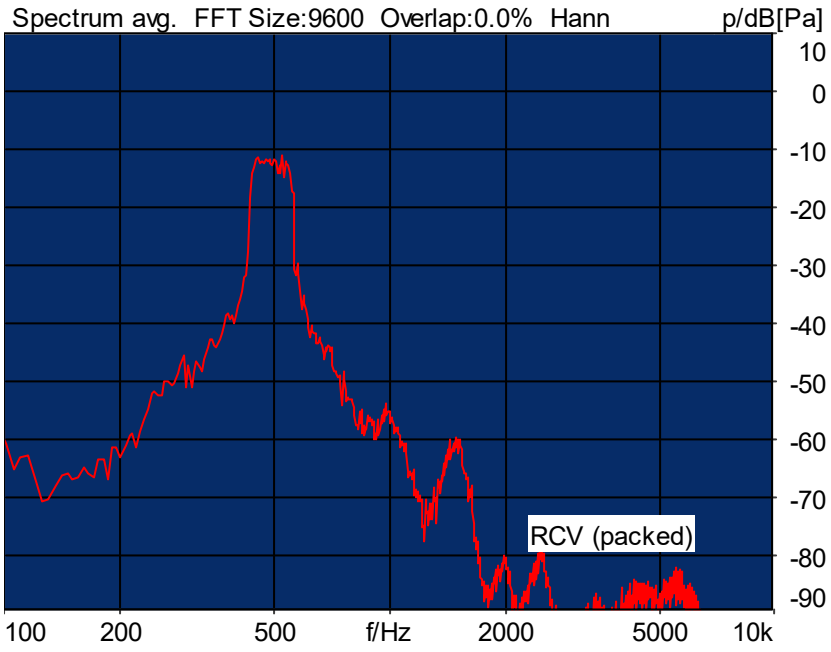
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



Distortion (Noise) RCV (packed): 29.10 dB (3.51%) Ok

Ok

2026/9/5 4:16 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

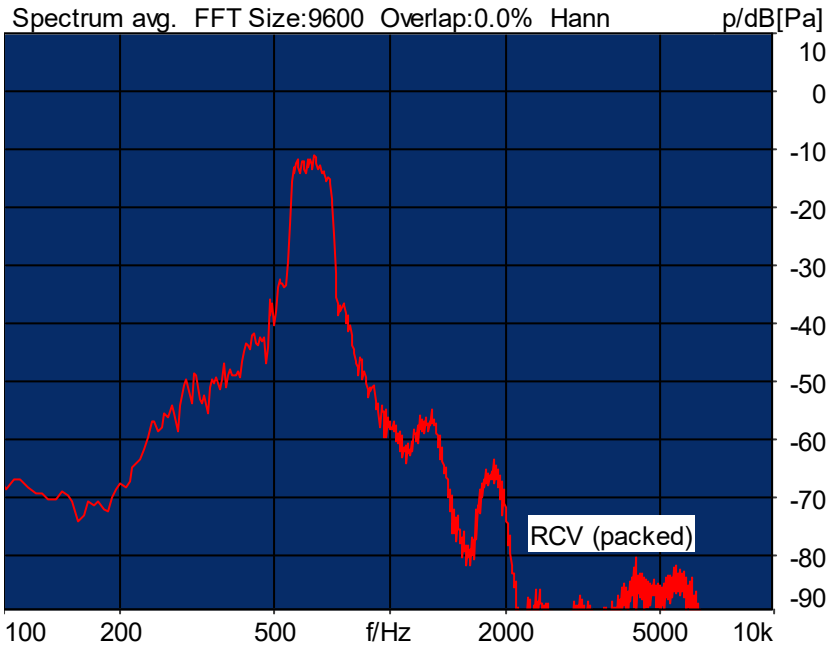
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 27.45 dB (4.24%) Ok

Ok

2026/9/5 4:16 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

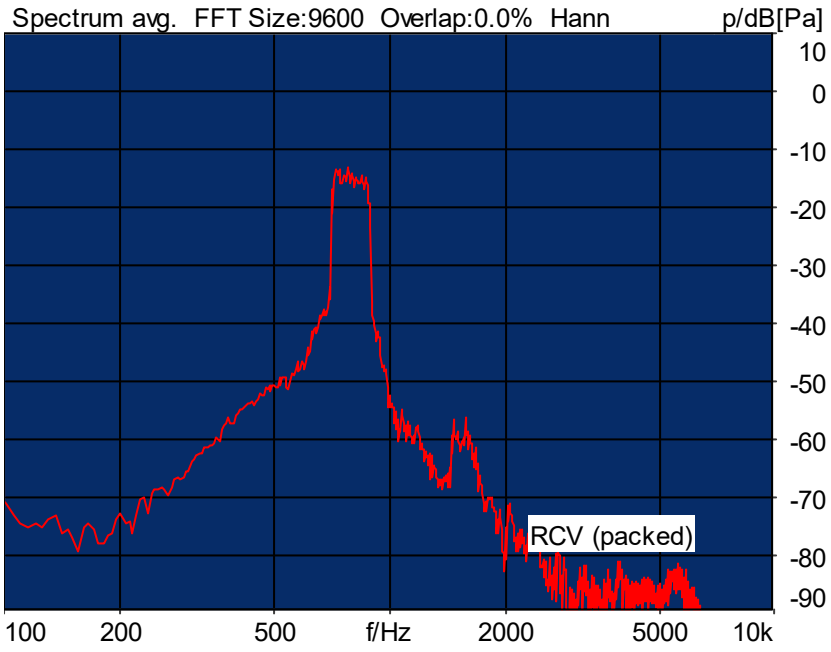
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



Distortion (Noise) RCV (packed): 29.35 dB (3.41%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

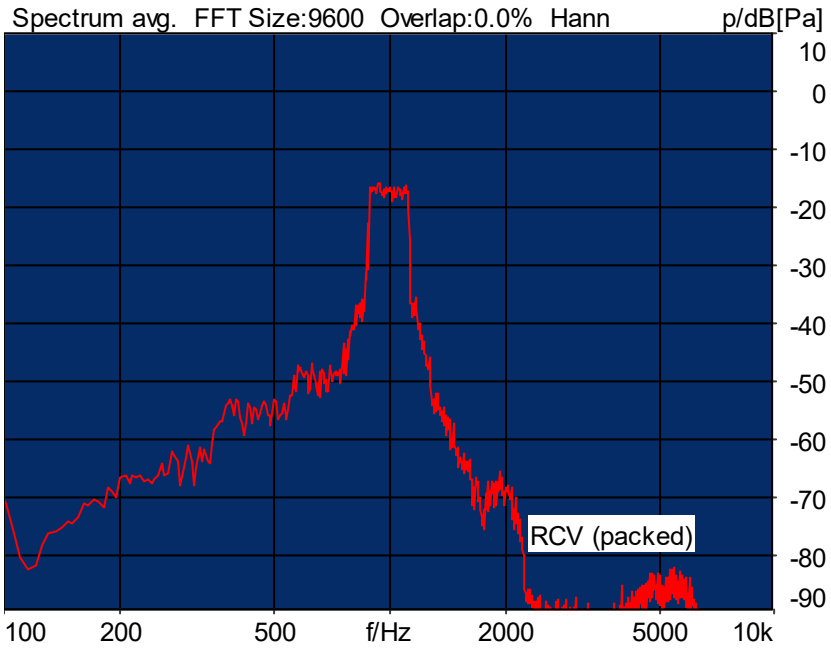
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 23.66 dB (6.56%) Ok

Ok

2026/9/5 4:17 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

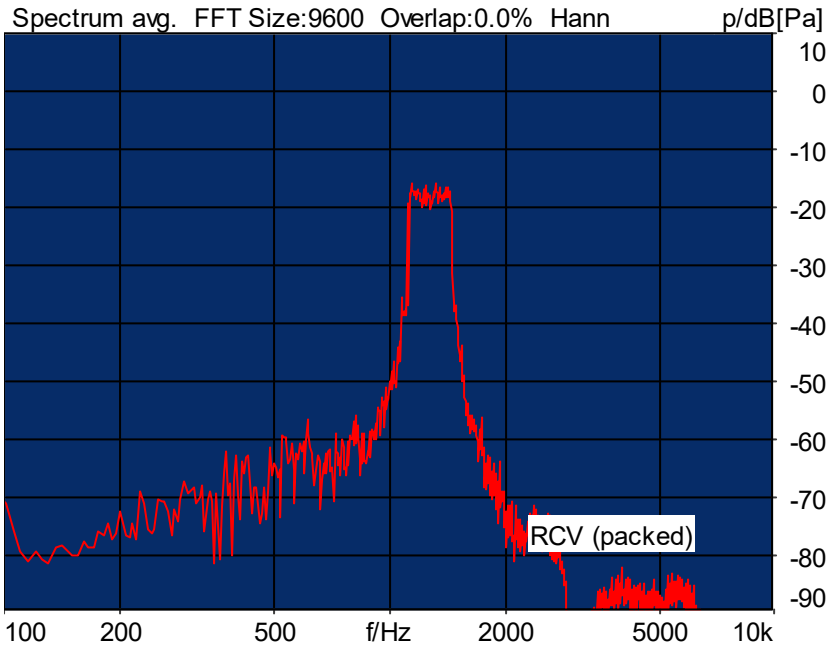
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 24.58 dB (5.90%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

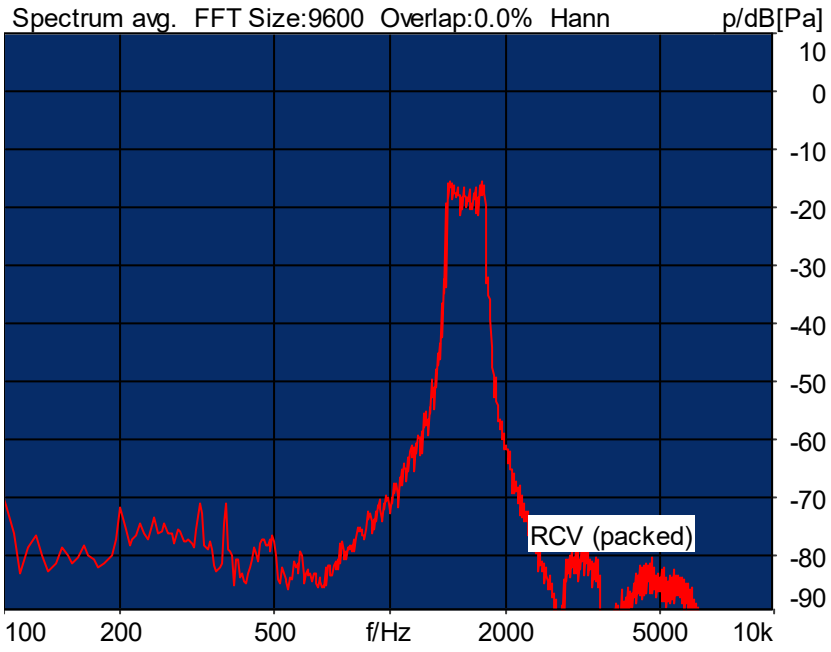
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 30.33 dB (3.04%) Ok

Ok

2026/9/5 4:18 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

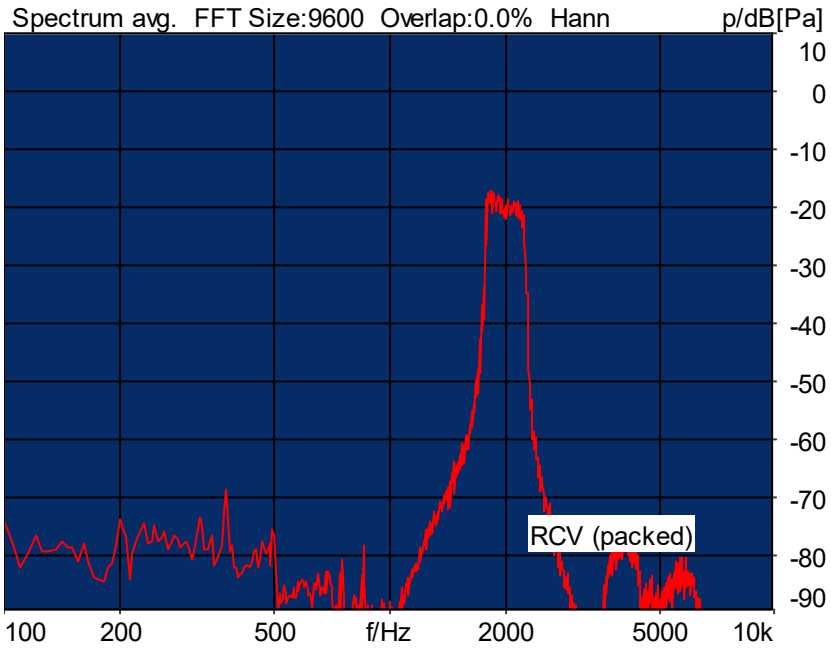
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



Distortion (Noise) RCV (packed): 30.03 dB (3.15%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

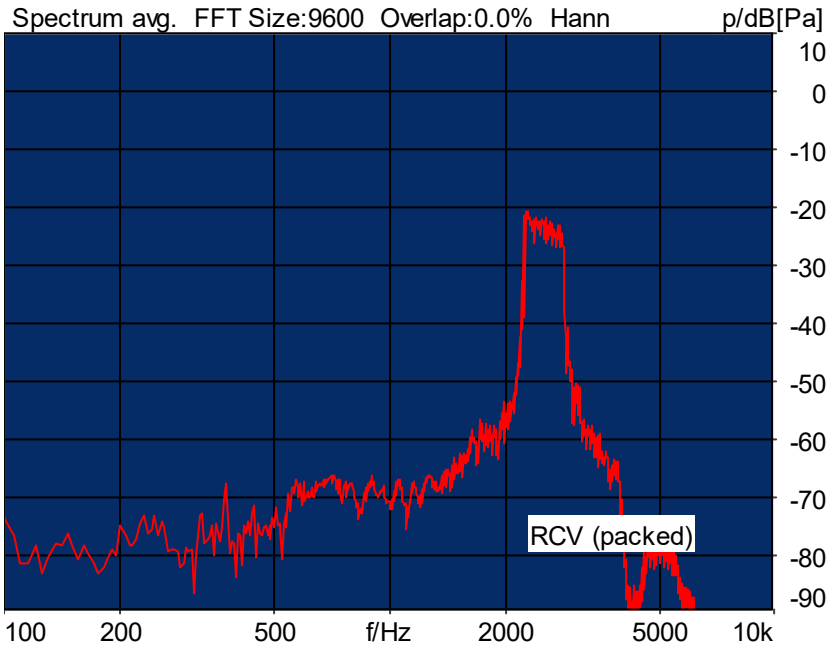
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



Distortion (Noise) RCV (packed): 24.24 dB (6.13%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

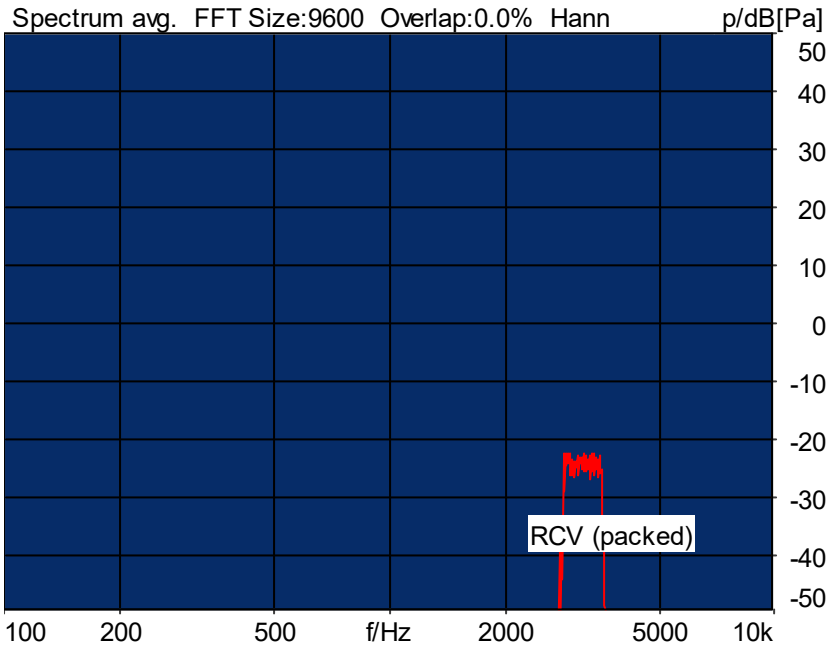
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 28.13 dB (3.92%) Ok

Ok

2026/9/5 4:19 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

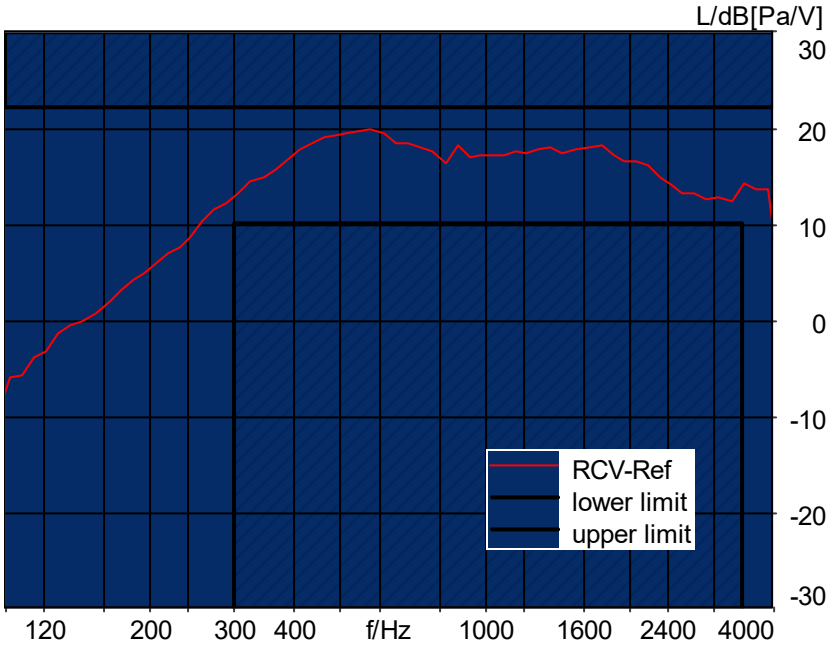
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

2.30 dB at 576.7 Hz Ok

Ok

2026/9/5 4:20 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat
Level adjustment Channel 1 Gain -90.00 dB
Level adjustment Channel 2 Gain -4.00 dB
NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(9#)

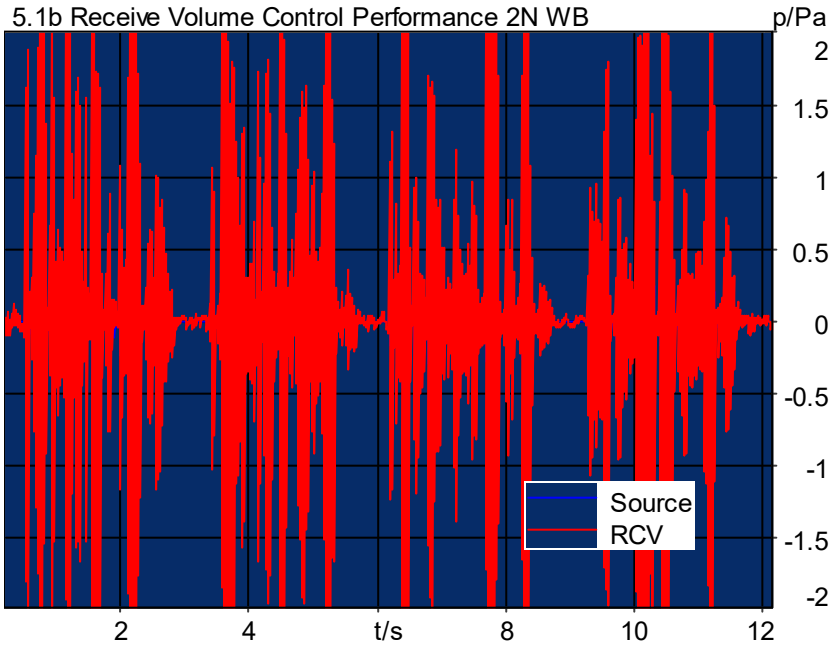
Measurement Object	Ti-CC26080336-LTEB13

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.59	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.56	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.95	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.59	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.28	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.91	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.56	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.59	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.58	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.14	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.31	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.66	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.54	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.26	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.98	Ti-CC26080336-LTEB13
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	1.83	Ti-CC26080336-LTEB13

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-13.2



Channel	Speech level	Activity	
RCV	86.59 dB[SPL]	80.53%	Ok

Ok

2026/9/12 5:25 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	117.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

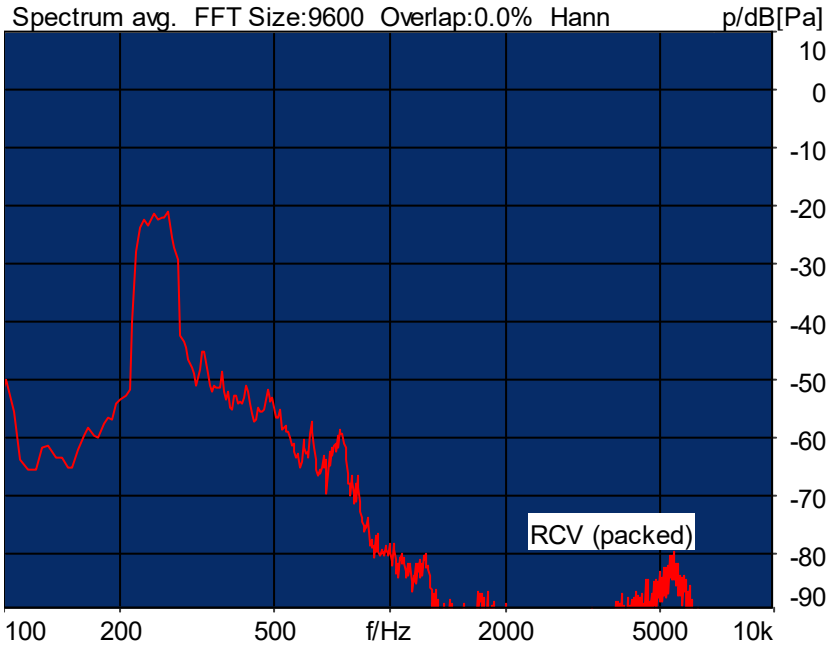
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 27.56 dB (4.19%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

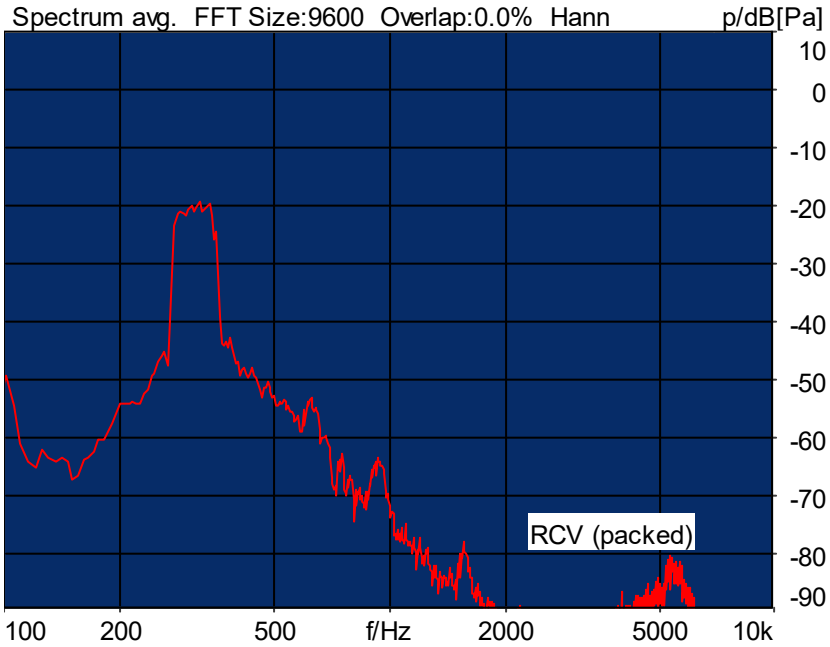
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 28.95 dB (3.57%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

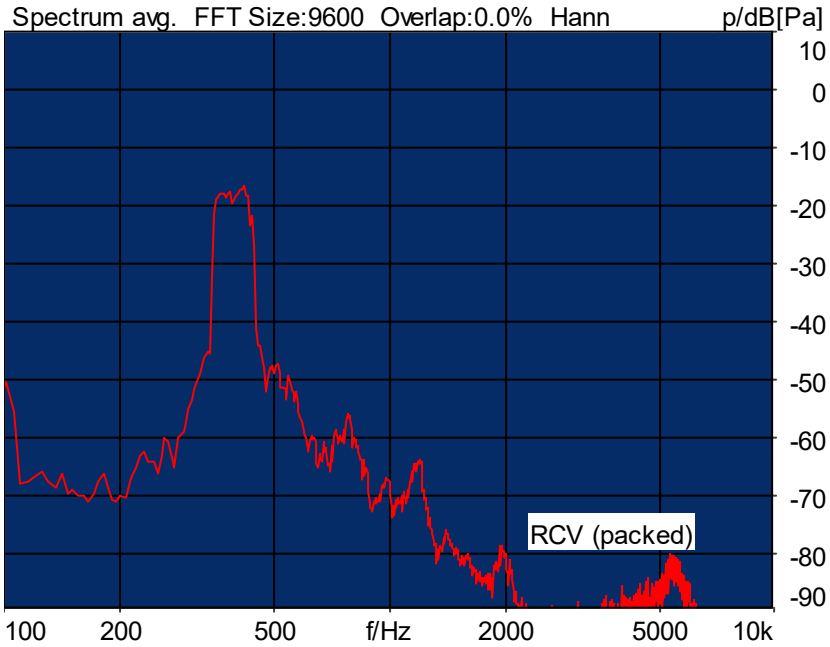
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.59 dB (2.35%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

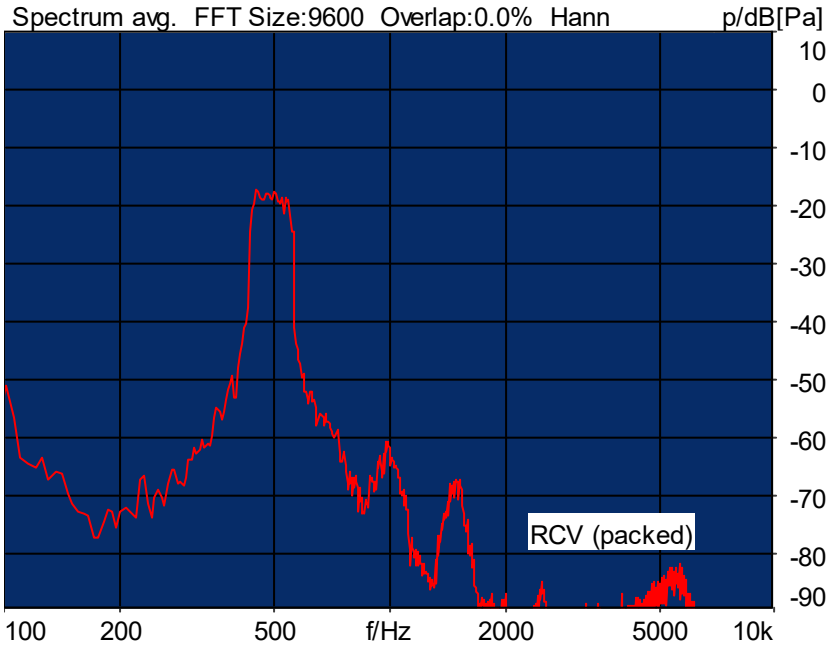
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 35.28 dB (1.72%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

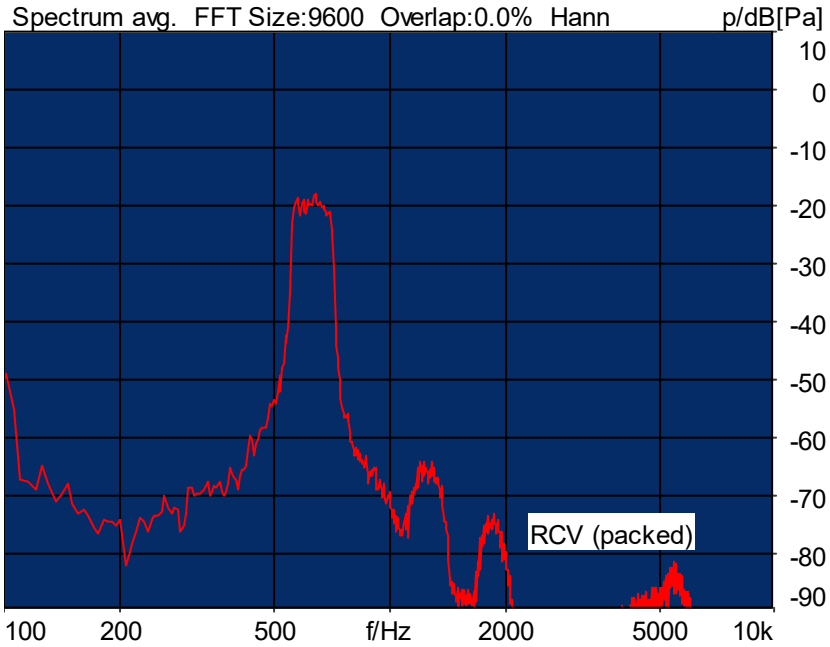
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

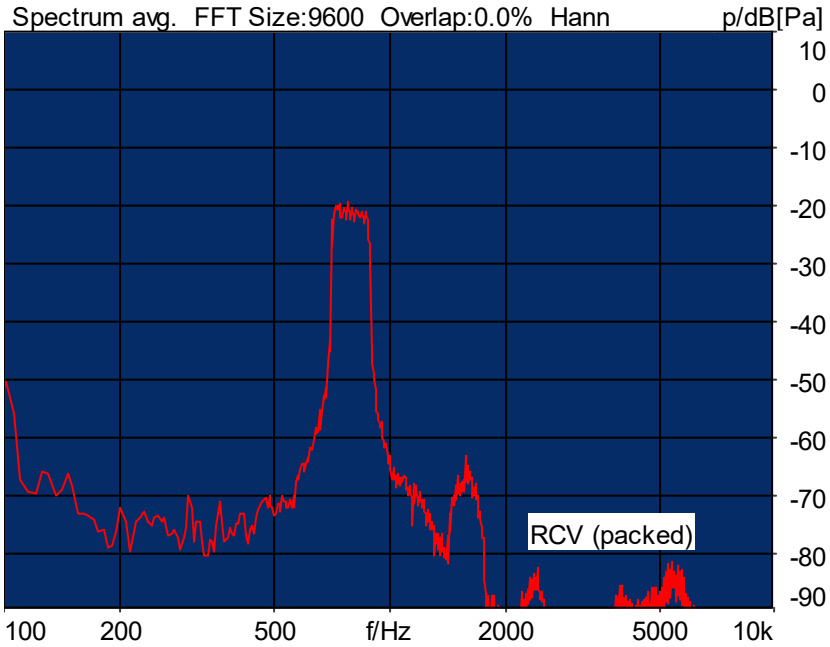
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.56 dB (1.32%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

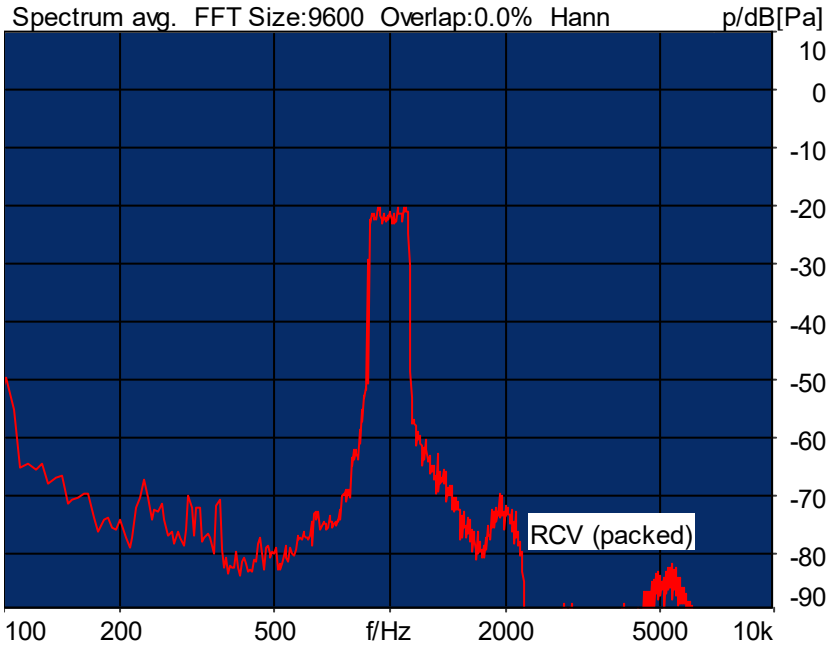
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.59 dB (1.18%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

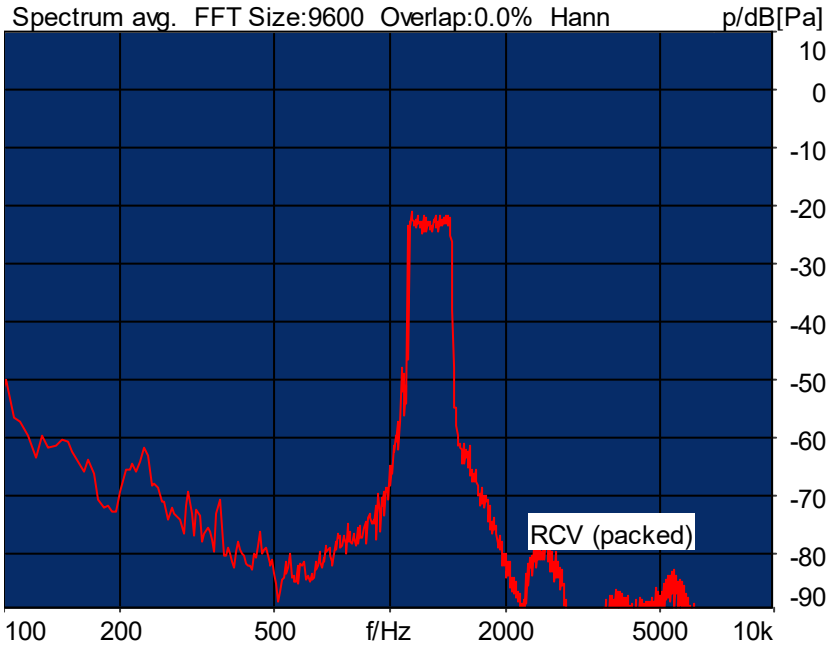
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

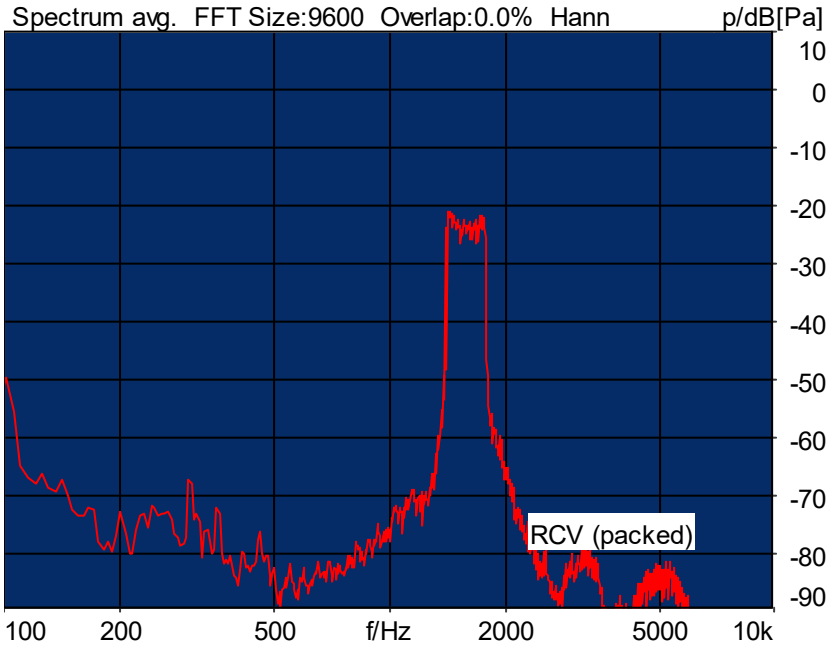
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.14 dB (1.39%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

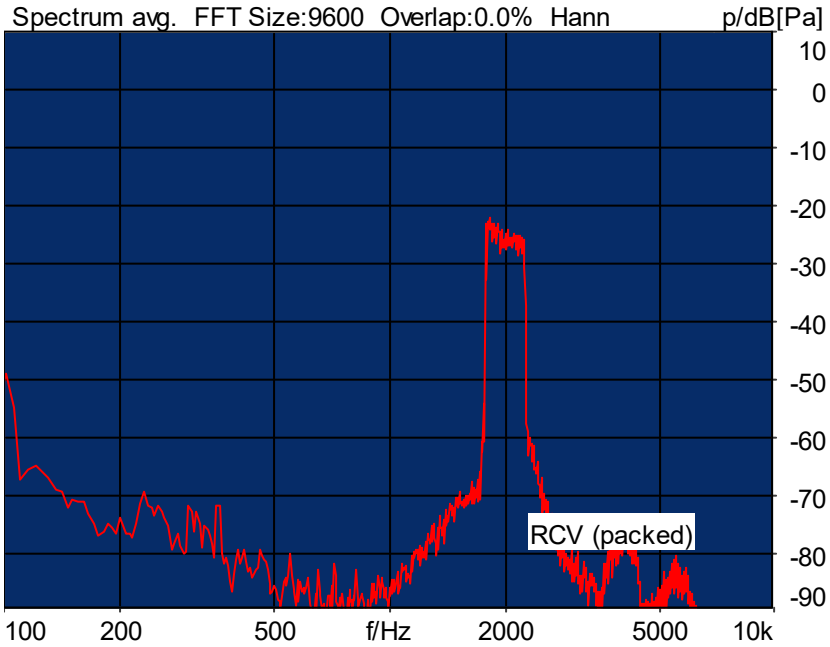
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.31 dB (1.21%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

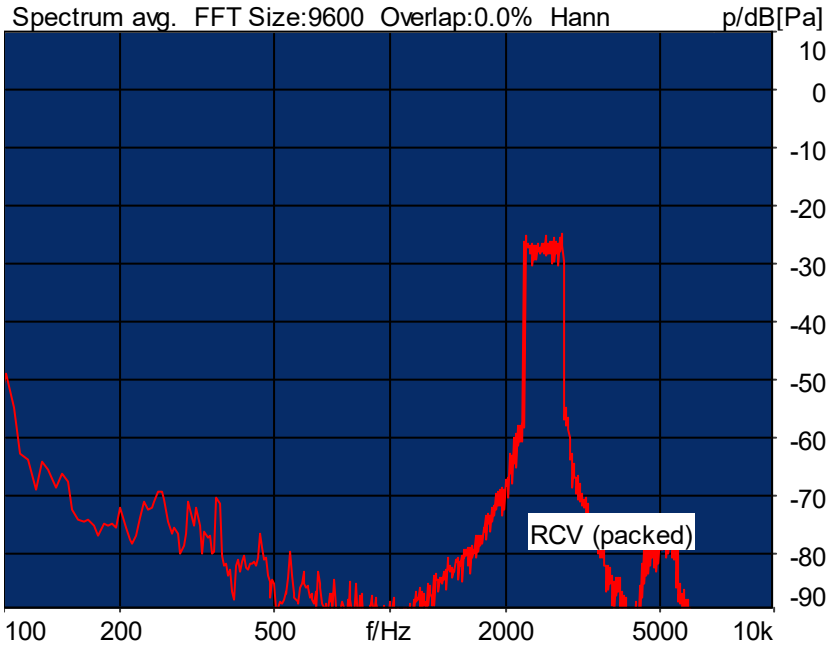
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.66 dB (2.08%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

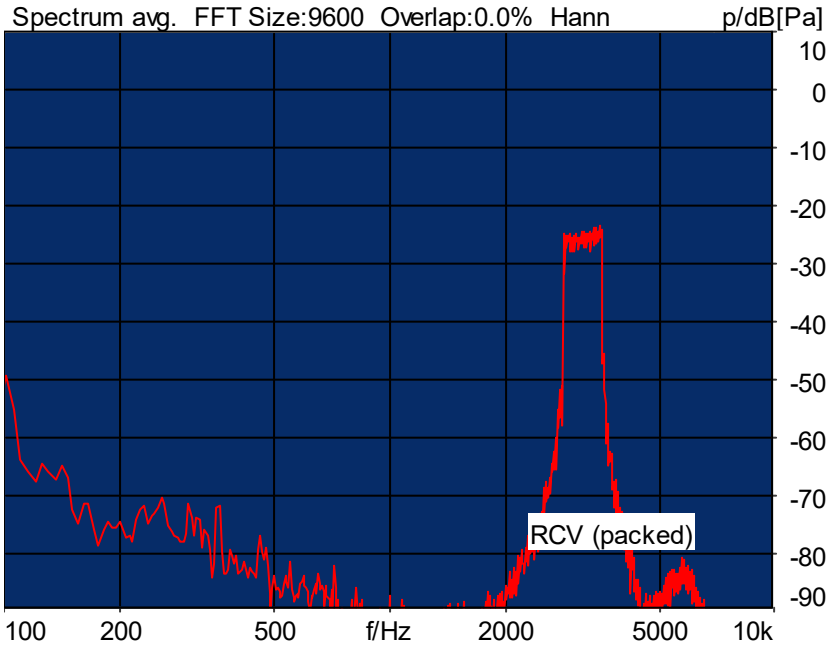
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.54 dB (2.10%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

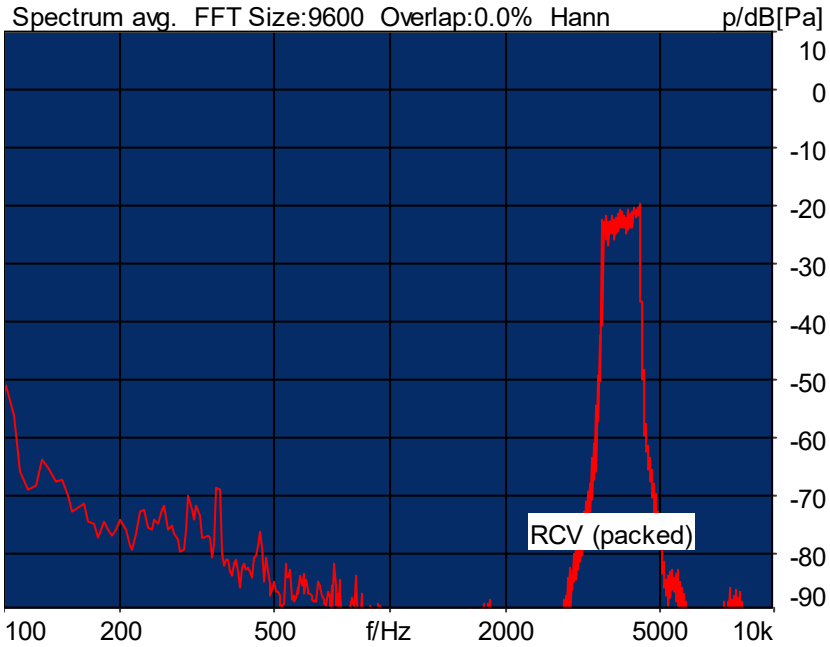
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.26 dB (2.44%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

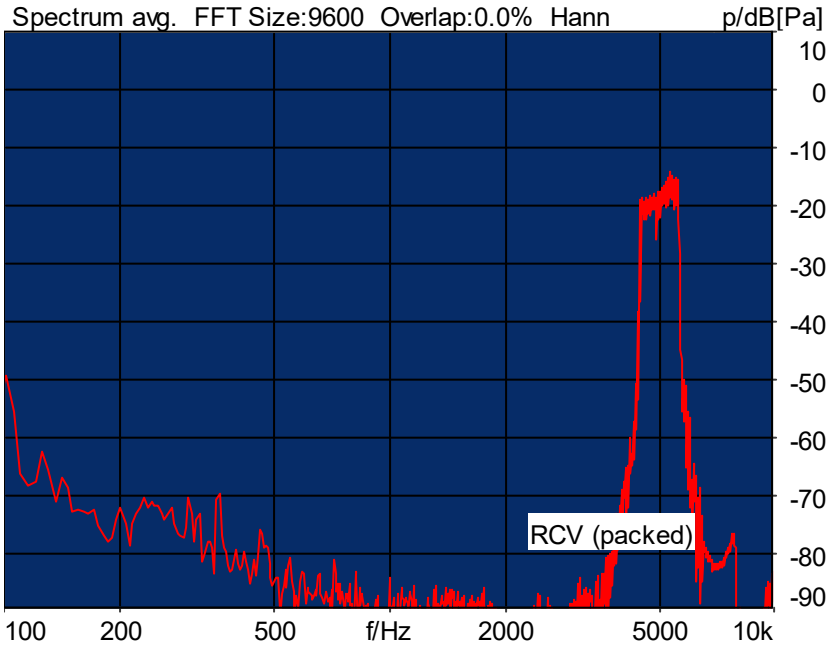
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.98 dB (2.00%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

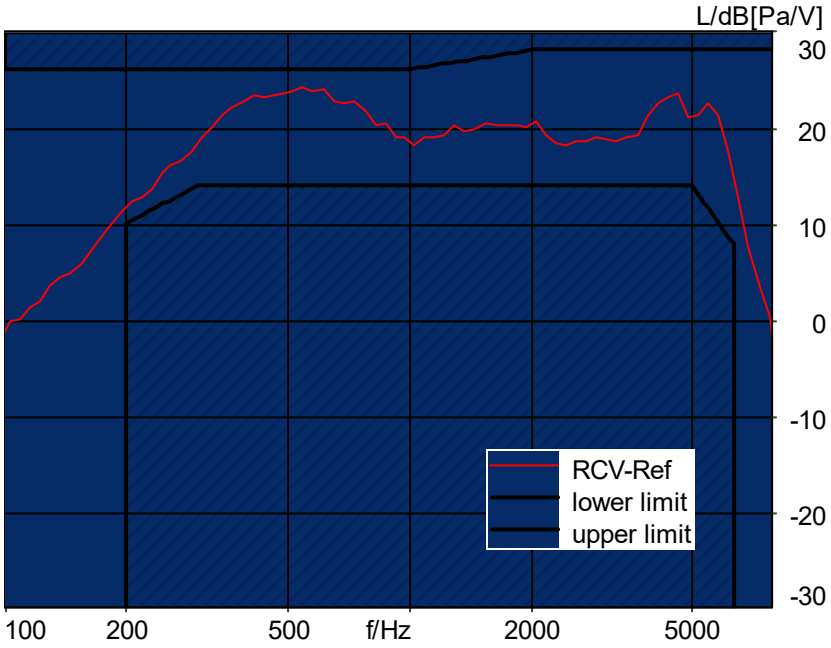
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.83 dB at 544.4 Hz Ok

Ok

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Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(10#)

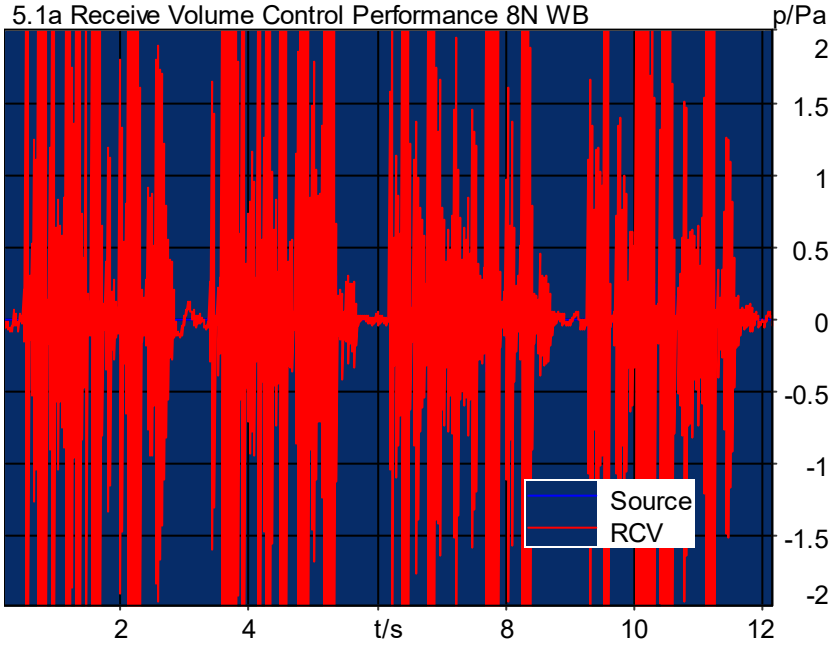
Measurement Object	Ti-CC26080336-LTEB13

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.32	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.69	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.49	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.30	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.20	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.58	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.38	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.21	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.14	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.89	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.72	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.07	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.13	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.31	Ti-CC26080336-LTEB13
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.24	Ti-CC26080336-LTEB13
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	1.83	Ti-CC26080336-LTEB13

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-13.2



Channel	Speech level	Activity	
RCV	91.32 dB[SPL]	80.78%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	122.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

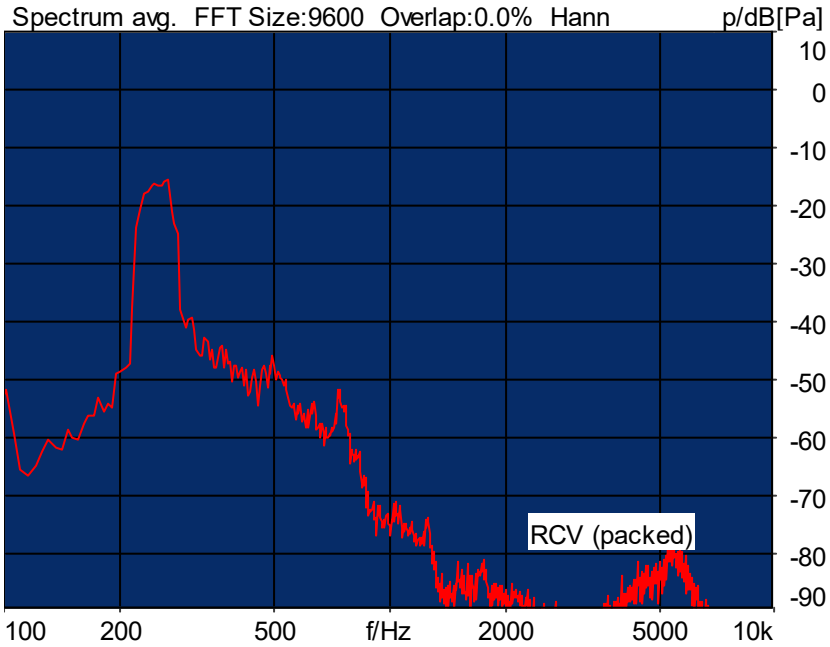
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 27.69 dB (4.12%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

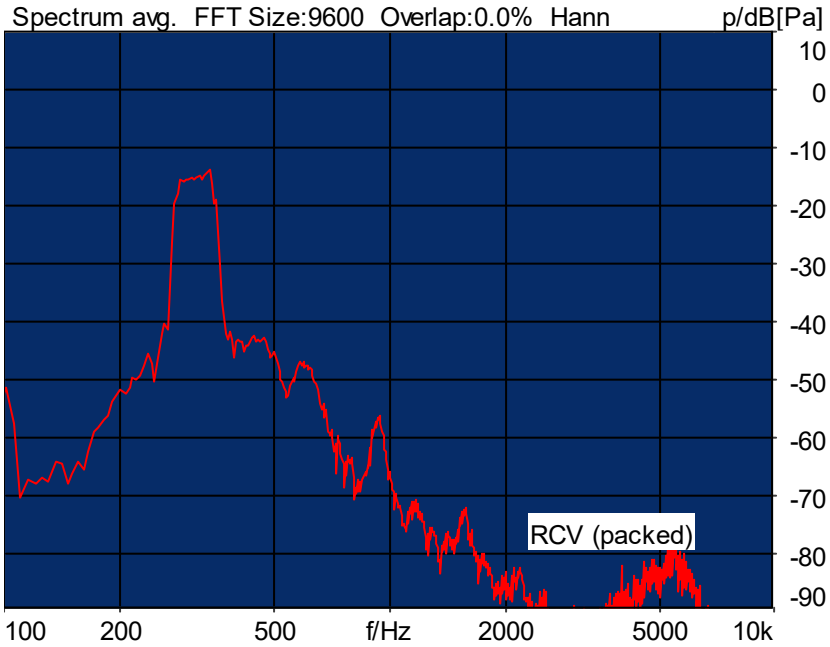
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 28.49 dB (3.76%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

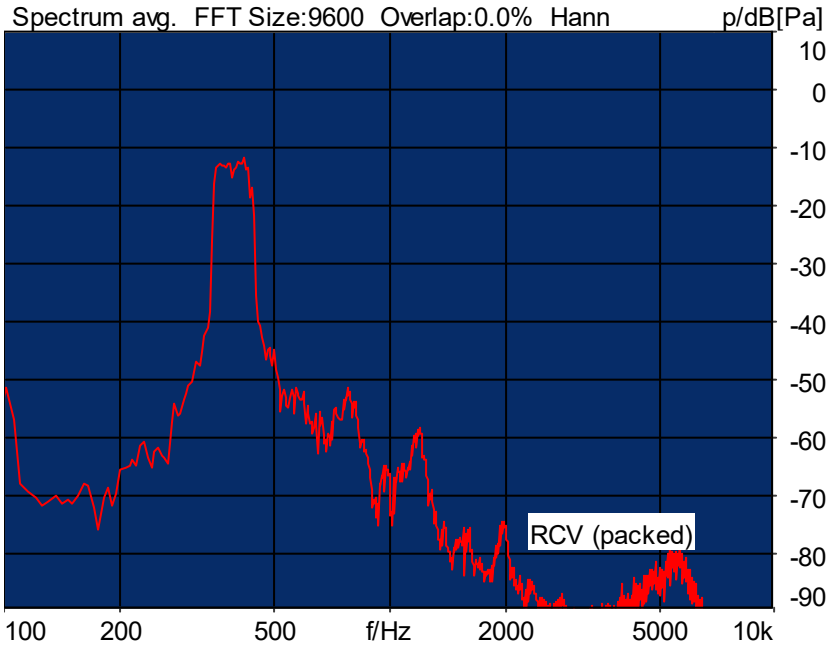
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 35.30 dB (1.72%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

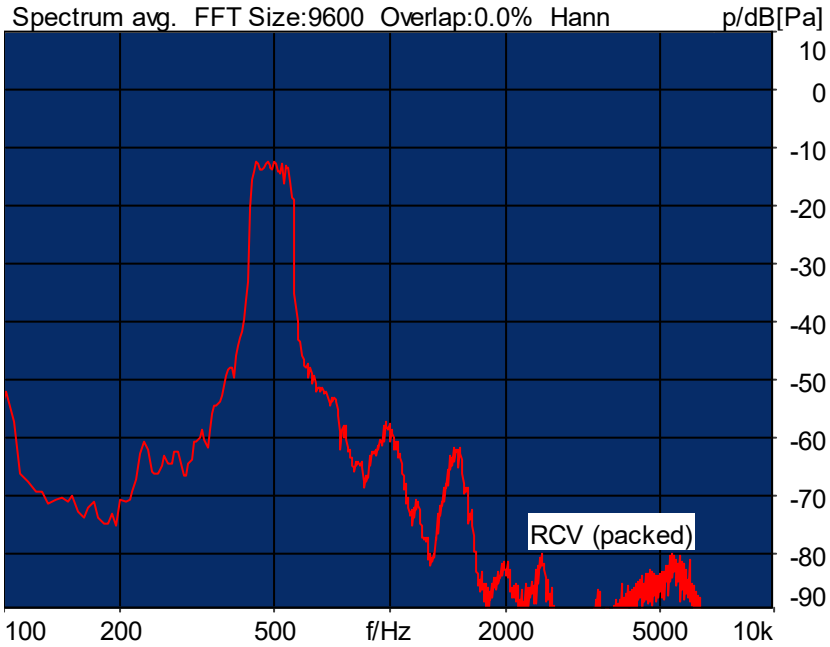
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.20 dB (1.55%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

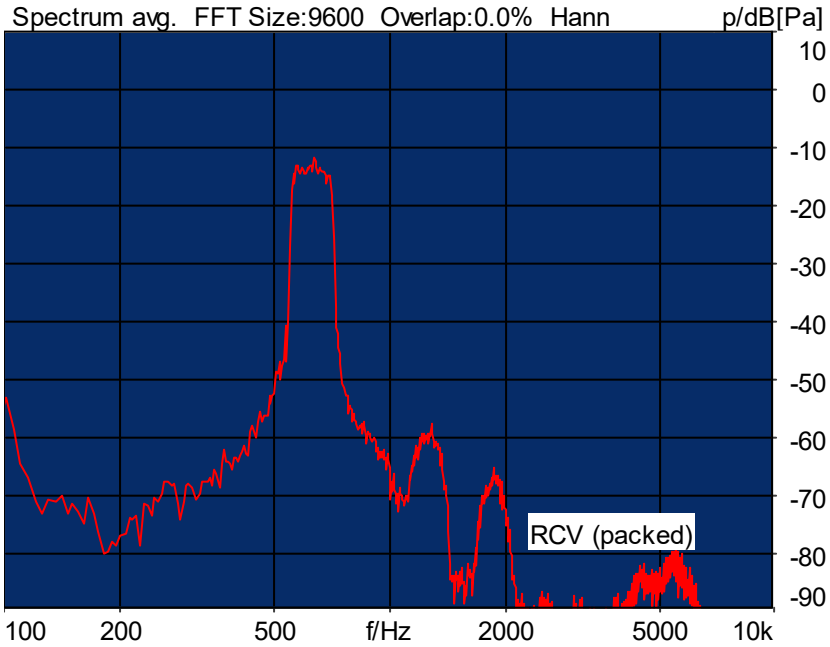
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.58 dB (1.18%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

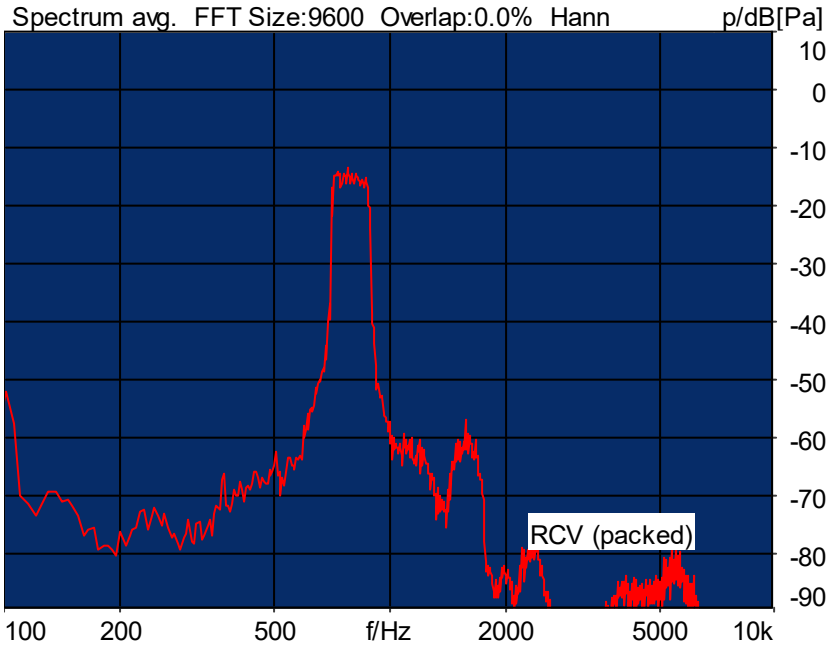
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.38 dB (1.35%) Ok

Ok

2026/9/8 16:52 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

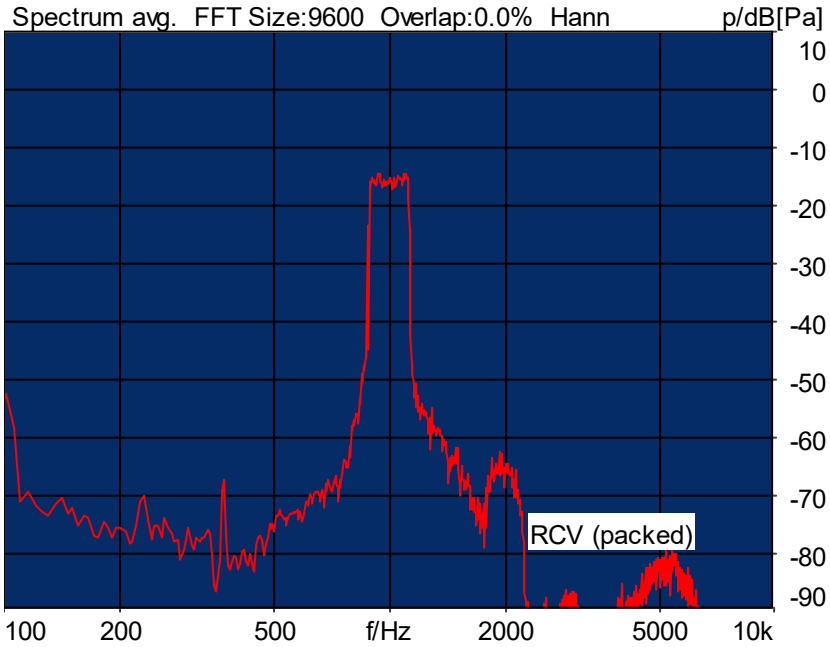
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.21 dB (1.23%) Ok

Ok

2026/9/8 16:52 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

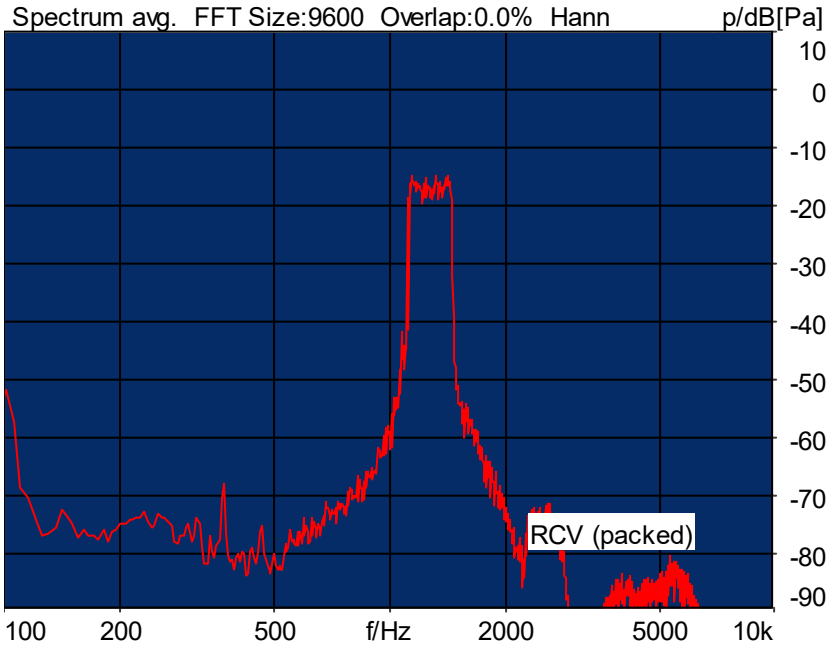
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 30.14 dB (3.11%) Ok

Ok

2026/9/8 16:52 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

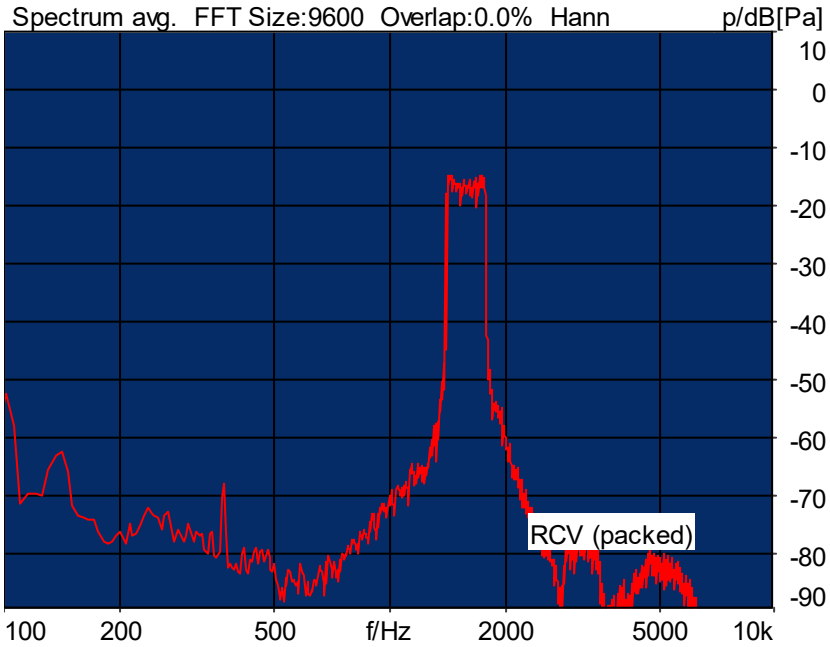
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.89 dB (1.14%) Ok

Ok

2026/9/8 16:53 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

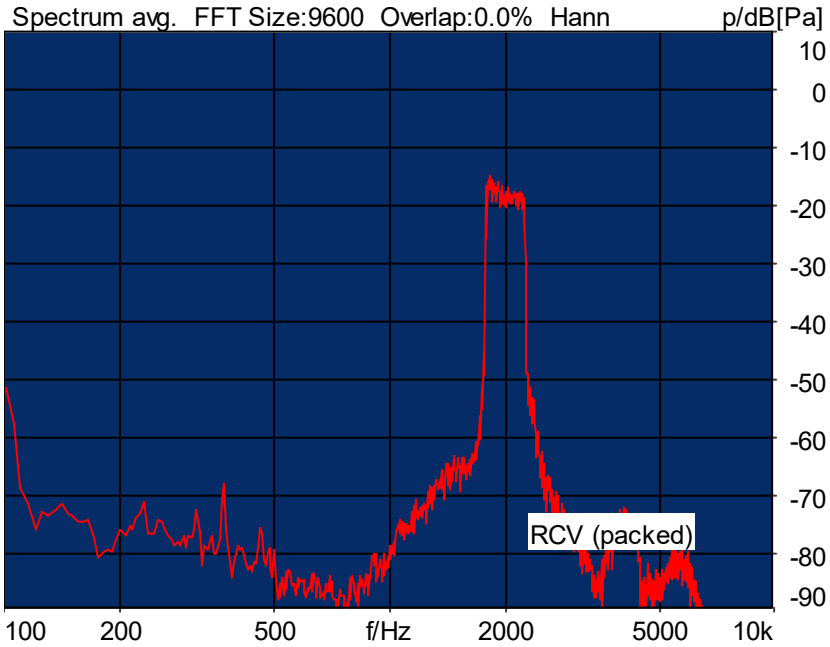
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.72 dB (1.16%) Ok

Ok

2026/9/8 16:53 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

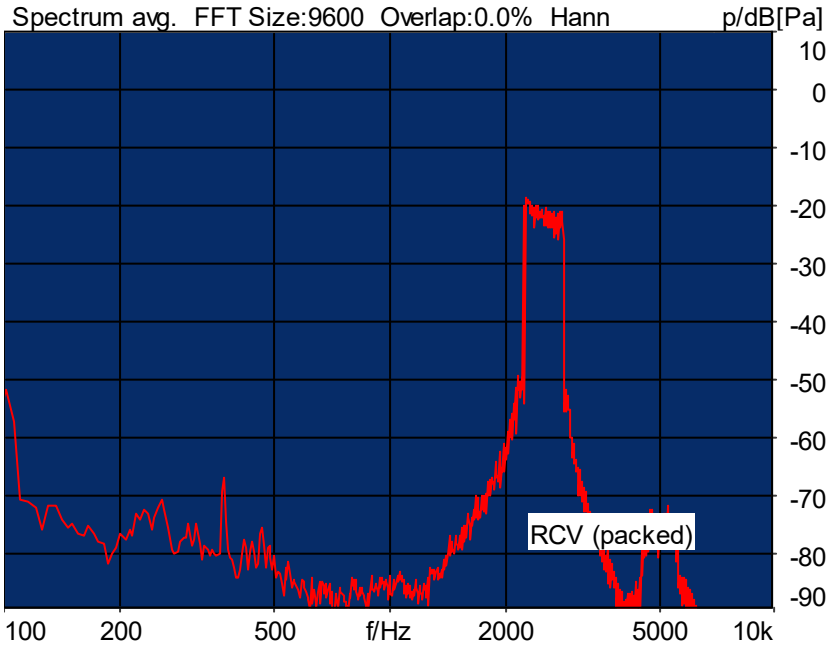
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.07 dB (1.98%) Ok

Ok

2026/9/8 16:54 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

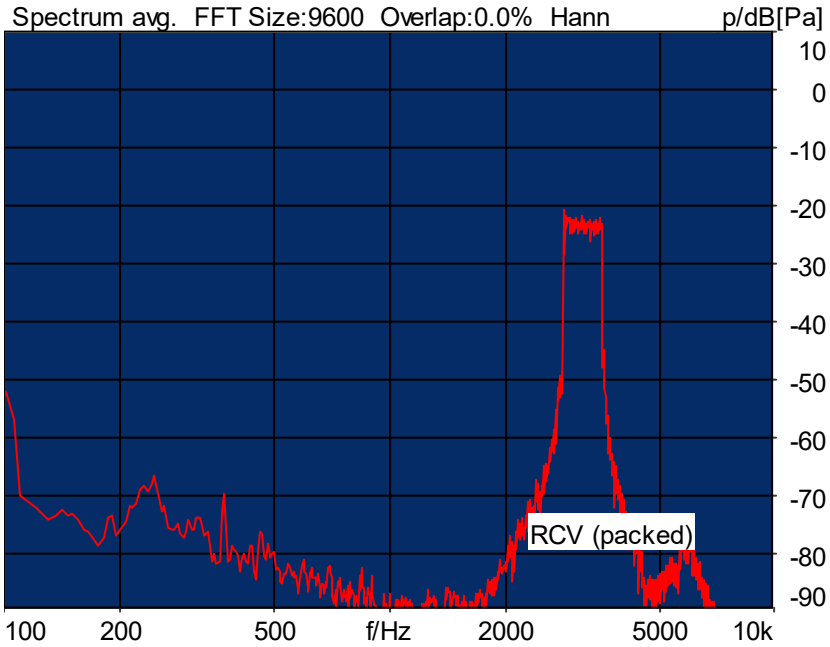
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.13 dB (2.21%) Ok

Ok

2026/9/8 16:54 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

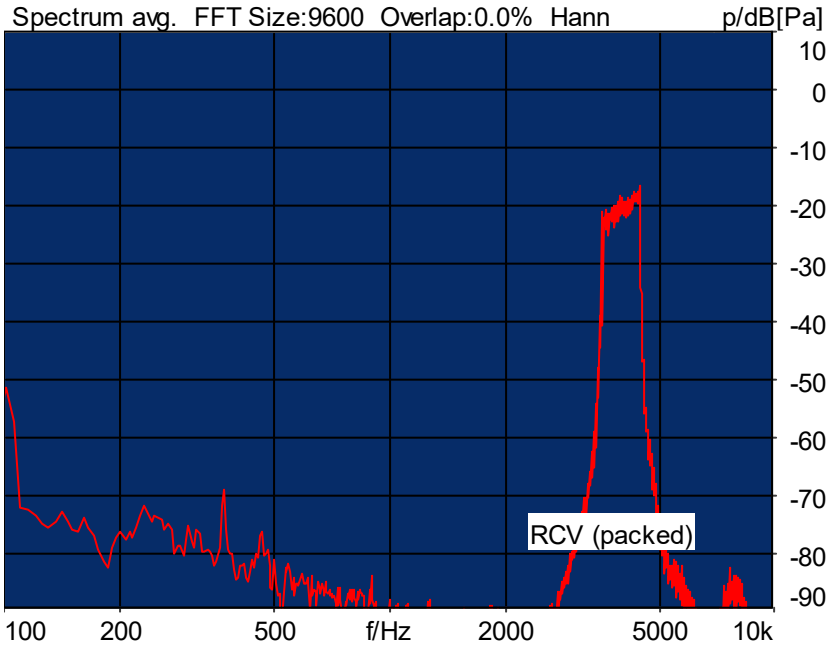
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.31 dB (2.72%) Ok

Ok

2026/9/8 16:54 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

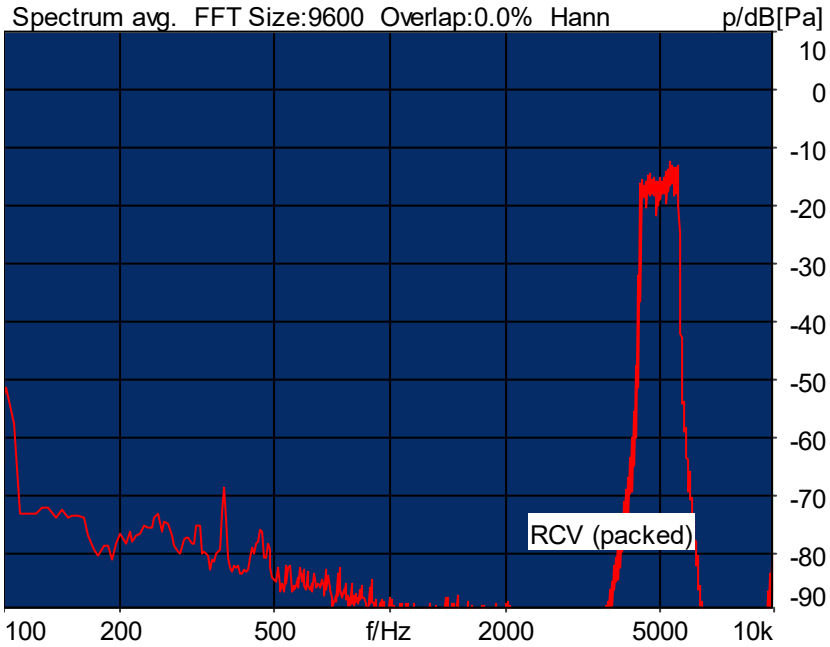
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.24 dB (1.94%) Ok

Ok

2026/9/8 16:55 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

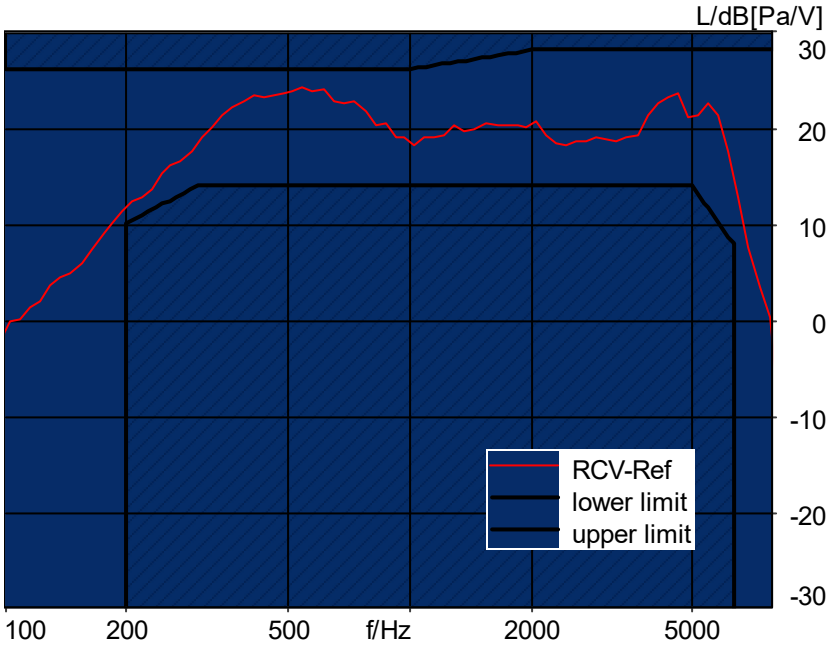
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.83 dB at 544.4 Hz Ok

Ok

2026/9/8 19:49 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(11#)

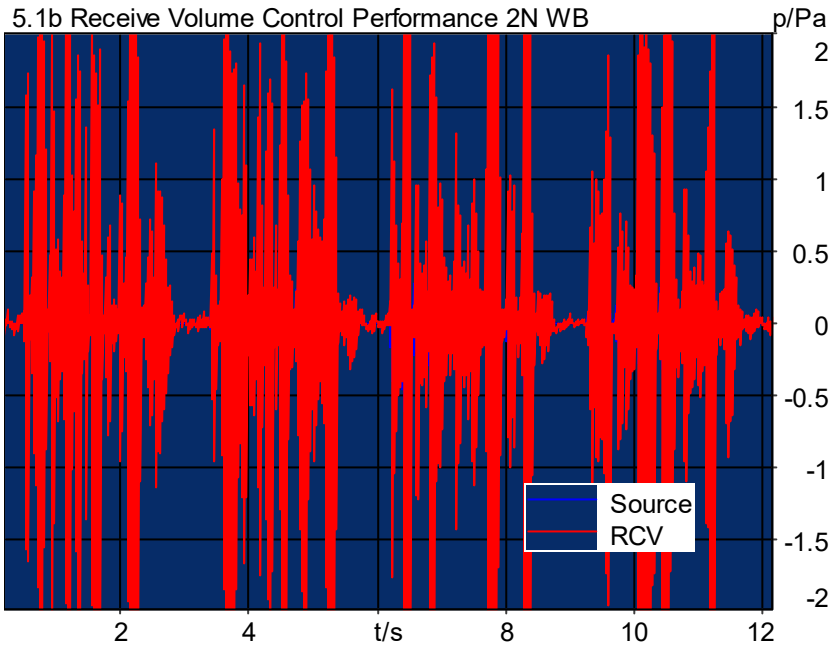
Measurement Object	Ti-CC26080336-LTEB17

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.52	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.54	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.80	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.47	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.54	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.47	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.00	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.75	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.79	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.29	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.62	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.28	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.40	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.06	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.45	Ti-CC26080336-LTEB17
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 5443.6 Hz	1.55	Ti-CC26080336-LTEB17

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	86.52 dB[SPL]	80.65%	Ok

Ok

2026/9/12 5:30 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	125.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

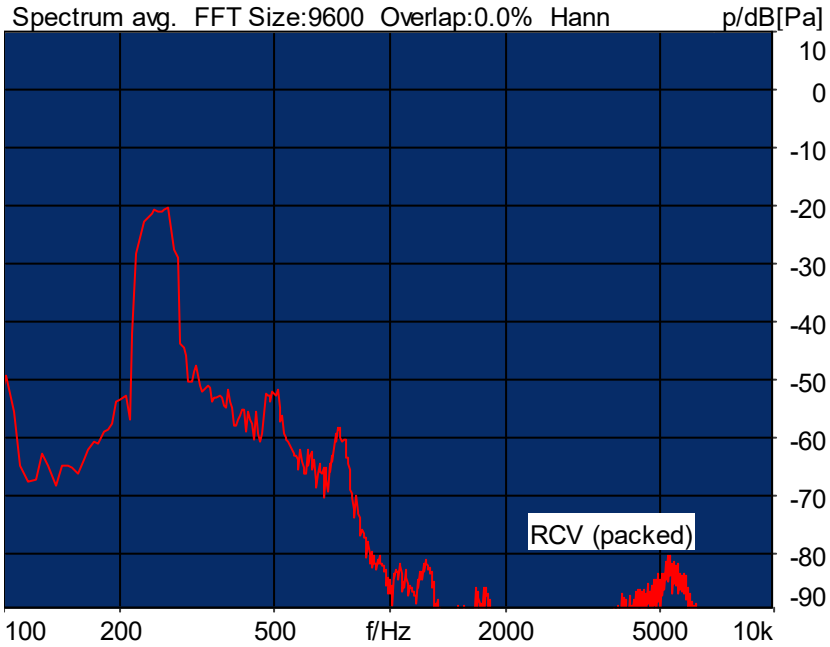
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 29.54 dB (3.34%) Ok

Ok

2026/9/7 11:29 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

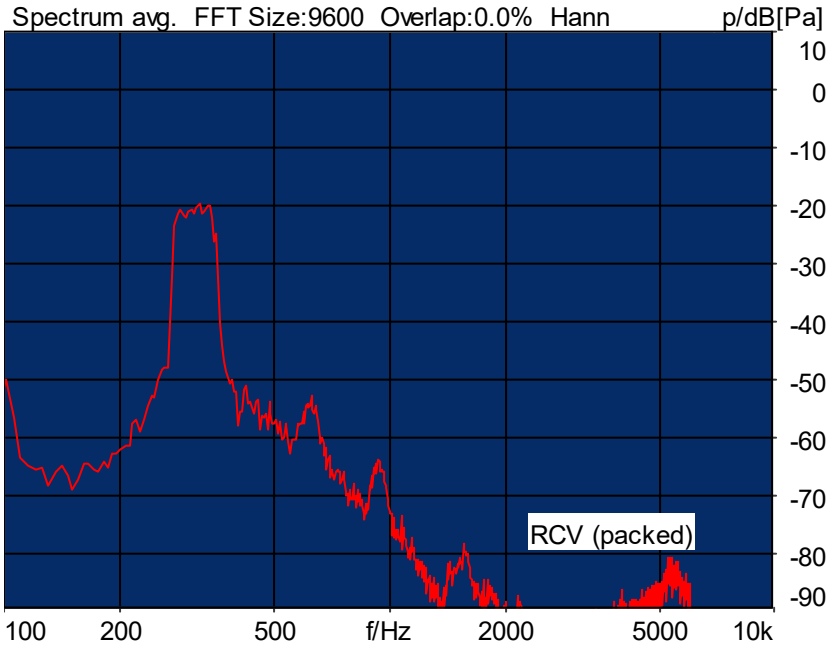
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.80 dB (2.57%) Ok

Ok

2026/9/7 11:29 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

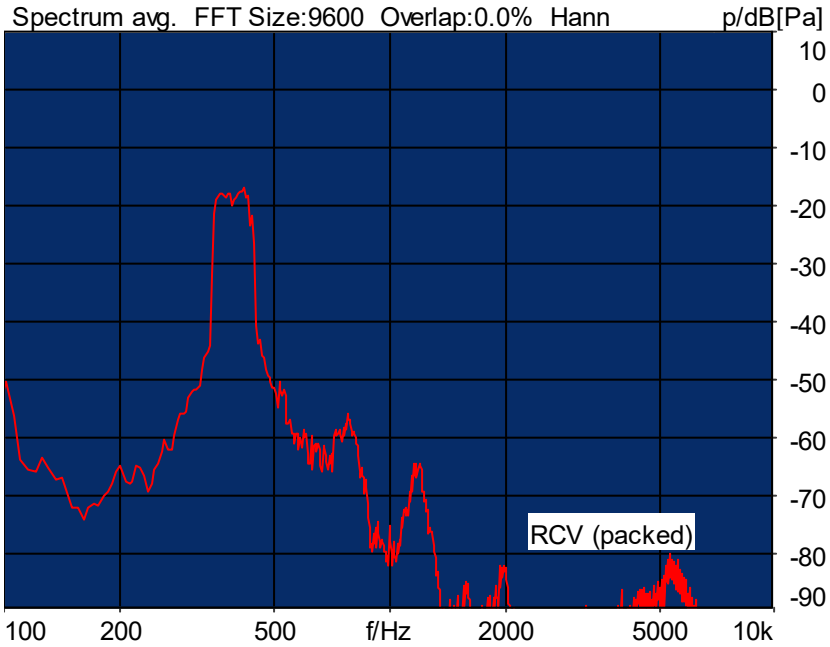
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.47 dB (1.89%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

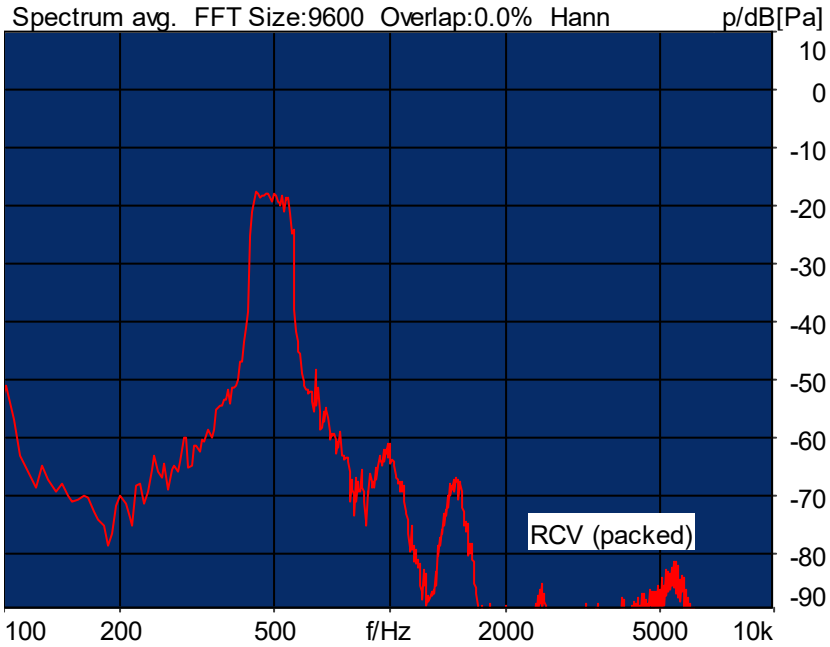
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.54 dB (1.87%) Ok

Ok

2026/9/7 11:30 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

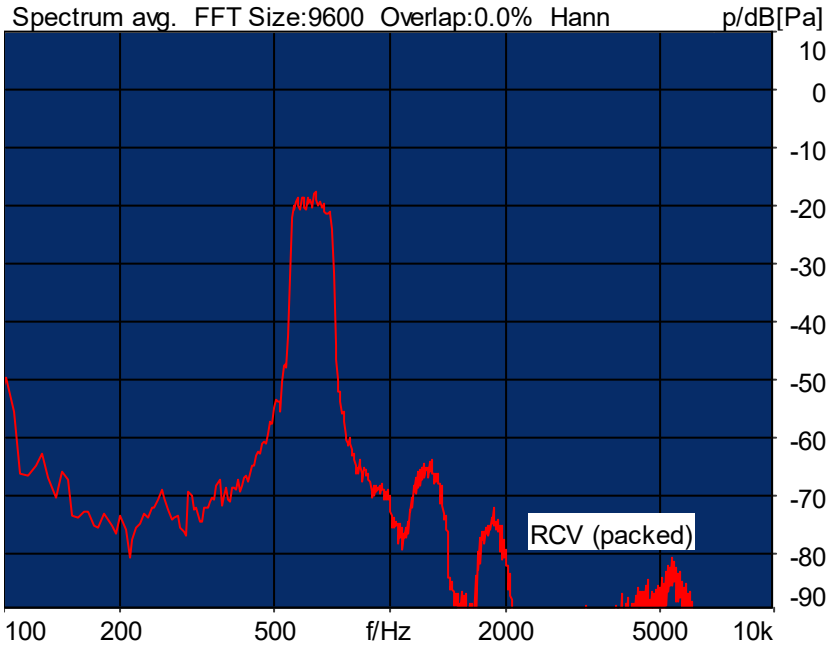
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.47 dB (1.19%) Ok

Ok

2026/9/7 11:30 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

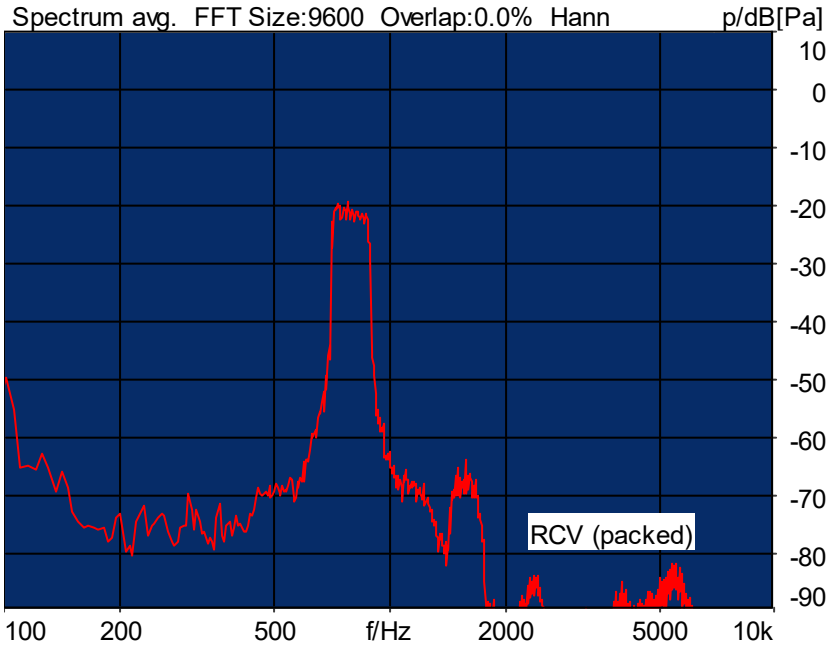
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.00 dB (1.41%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

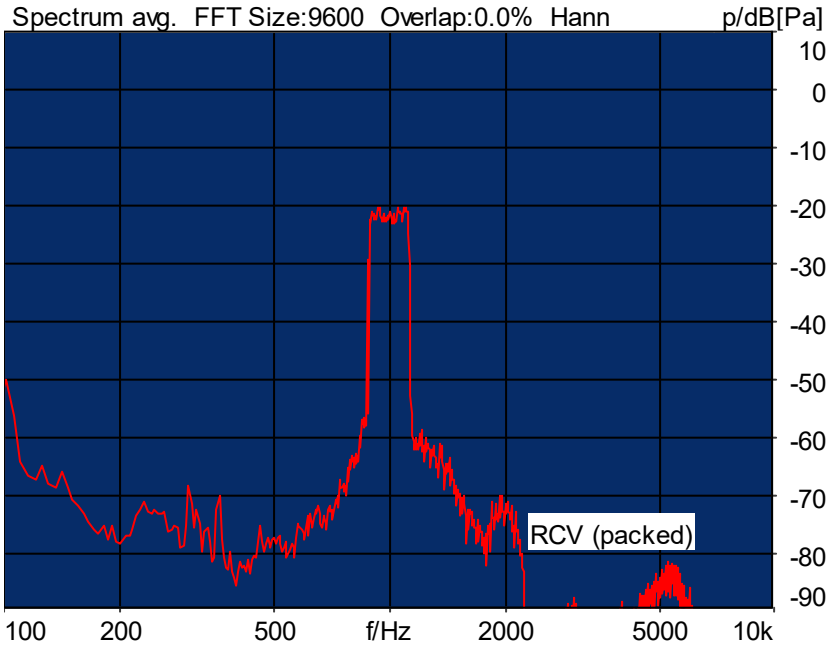
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.75 dB (1.30%) Ok

Ok

2026/9/7 11:31 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

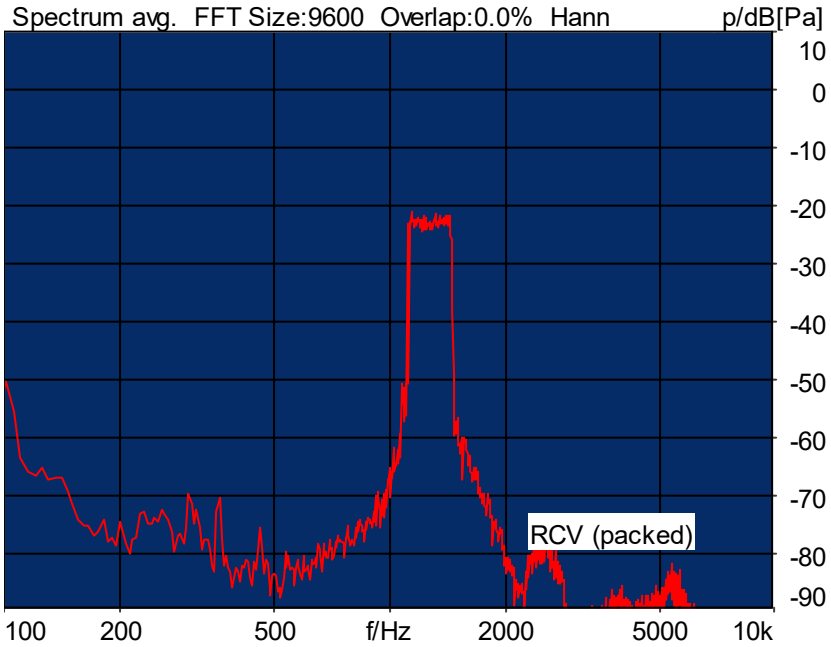
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 30.79 dB (2.89%) Ok

Ok

2026/9/7 11:32 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

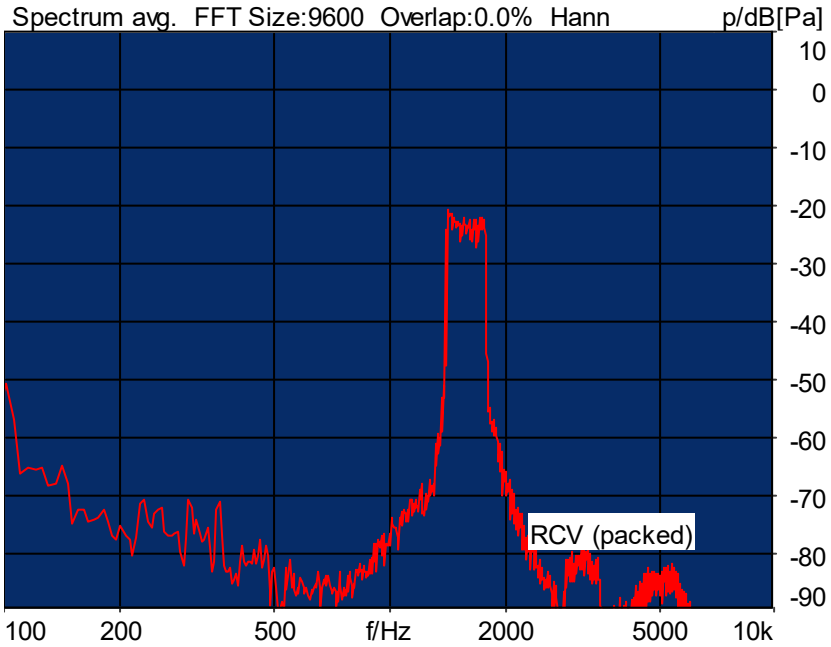
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.29 dB (1.37%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

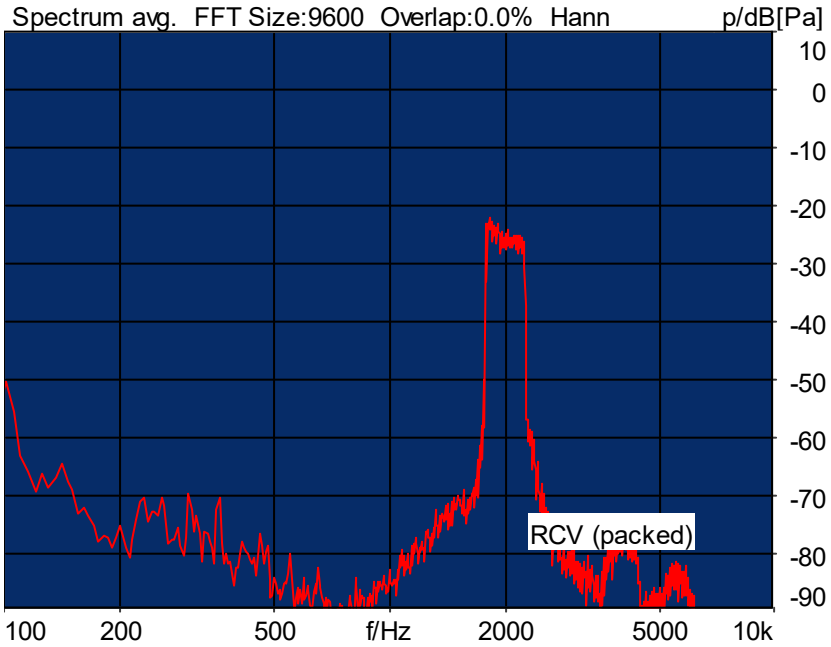
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.62 dB (1.32%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

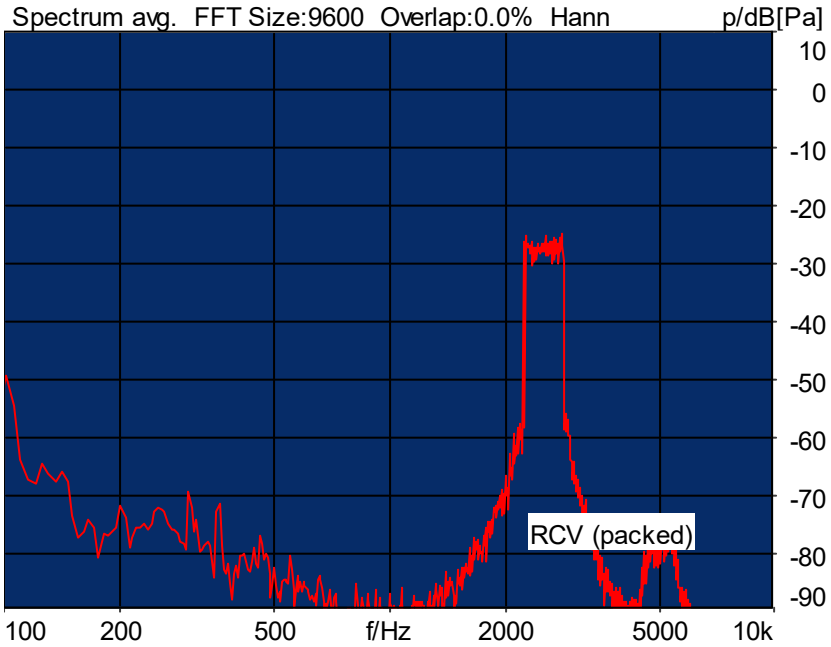
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.28 dB (1.93%) Ok

Ok

2026/9/7 11:33 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

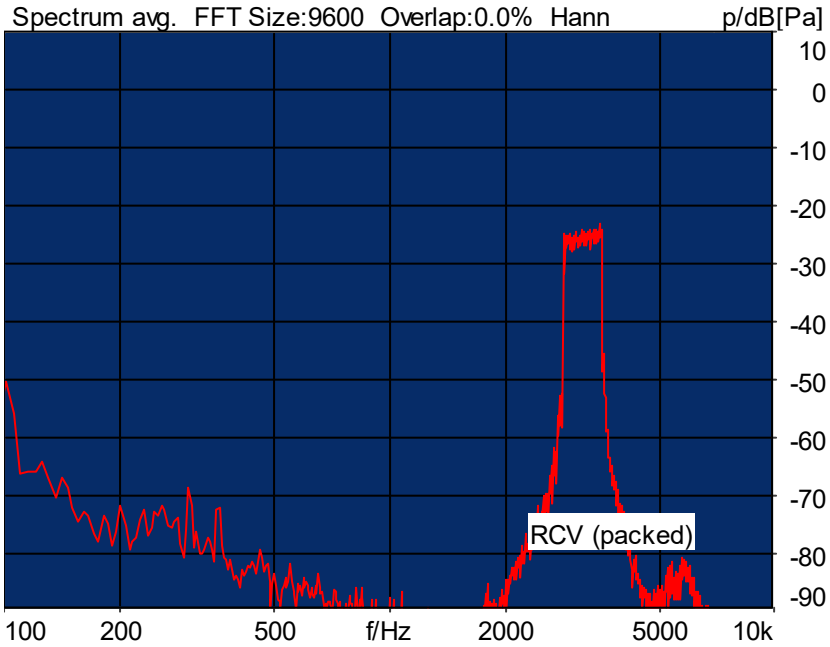
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.40 dB (2.14%) Ok

Ok

2026/9/7 11:33 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

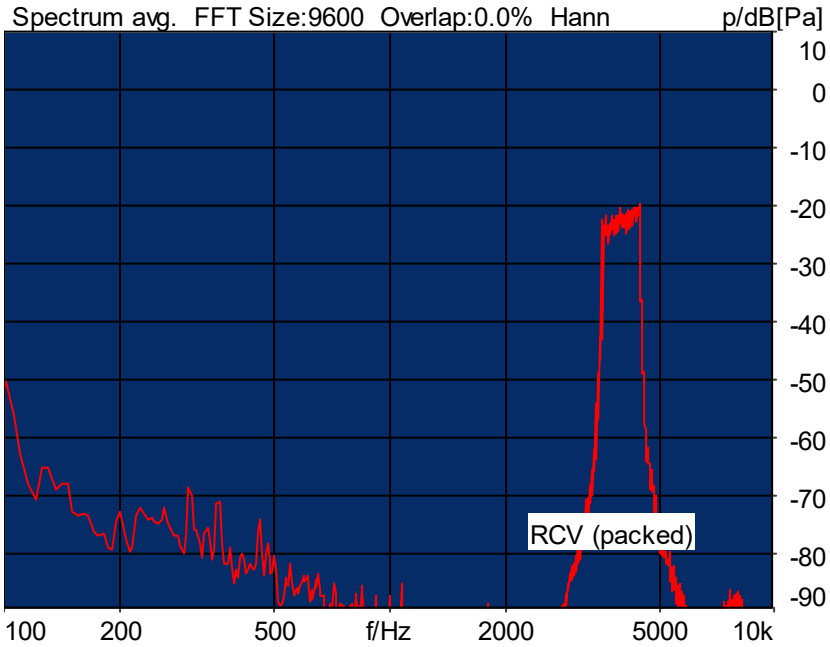
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.06 dB (2.50%) Ok

Ok

2026/9/7 11:33 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

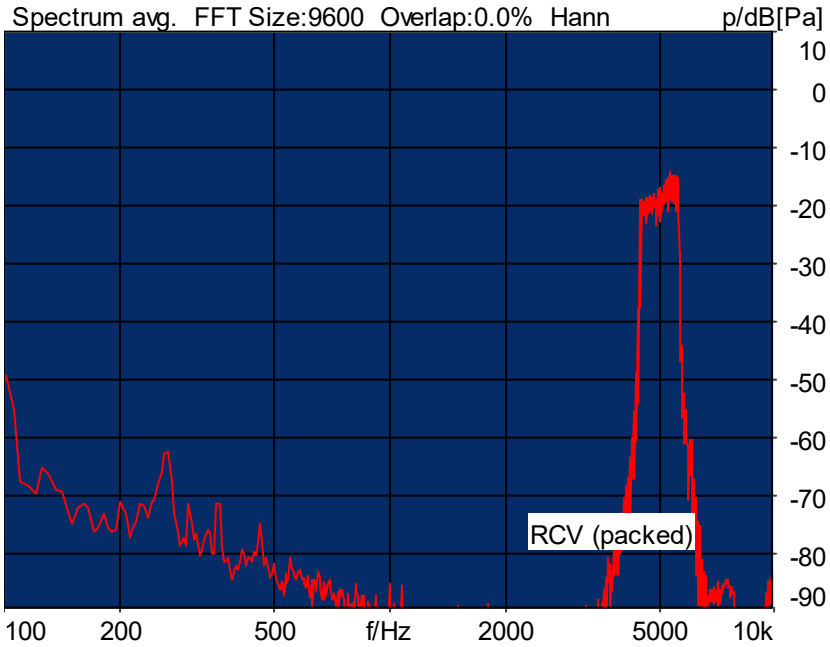
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.45 dB (1.90%) Ok

Ok

2026/9/7 11:34 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

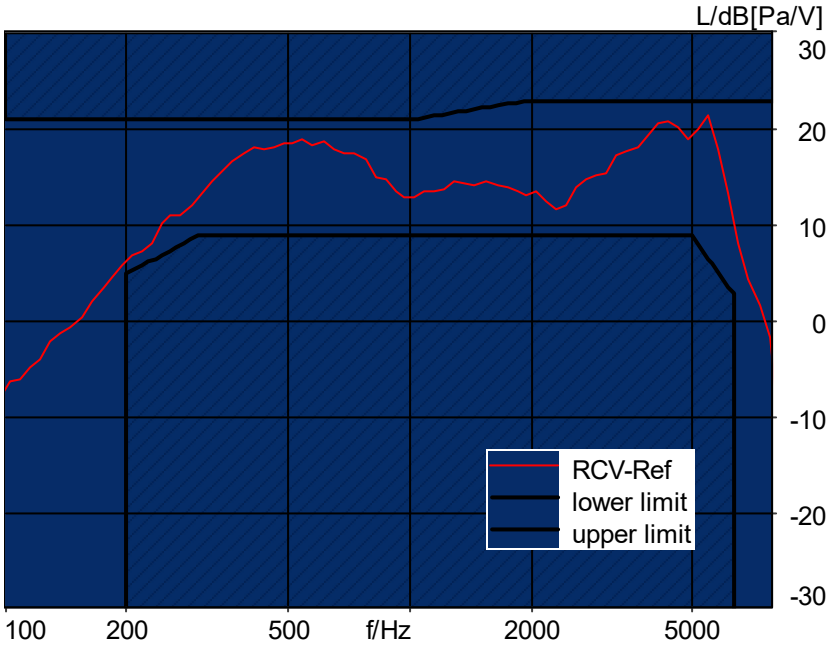
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF

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



Absolute minimal distance

1.55 dB at 5443.6 Hz Ok

Ok

2026/9/8 19:42 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(12#)

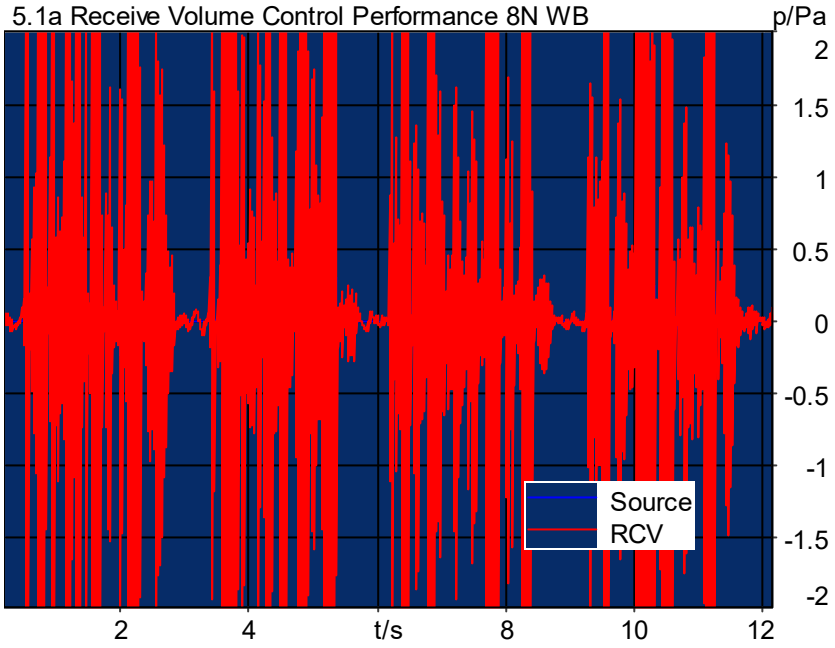
Measurement Object	Ti-CC26080336-LTEB17

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.37	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.99	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.07	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.54	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.02	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.57	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.47	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.51	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.45	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.14	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.77	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.85	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.25	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.97	Ti-CC26080336-LTEB17
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.65	Ti-CC26080336-LTEB17
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	1.83	Ti-CC26080336-LTEB17

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.37 dB[SPL]	80.91%	Ok

Ok

2026/9/12 5:29 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	140.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

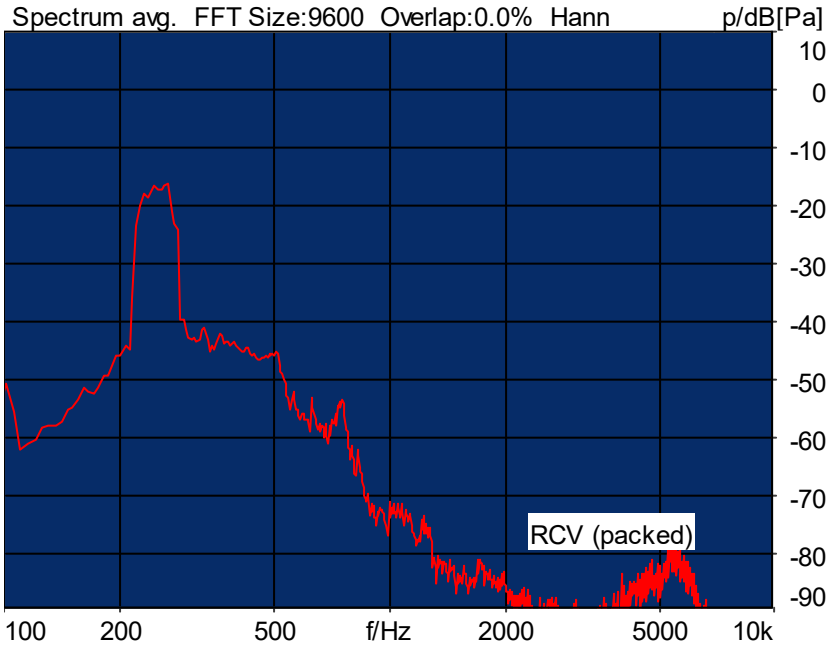
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 24.99 dB (5.63%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

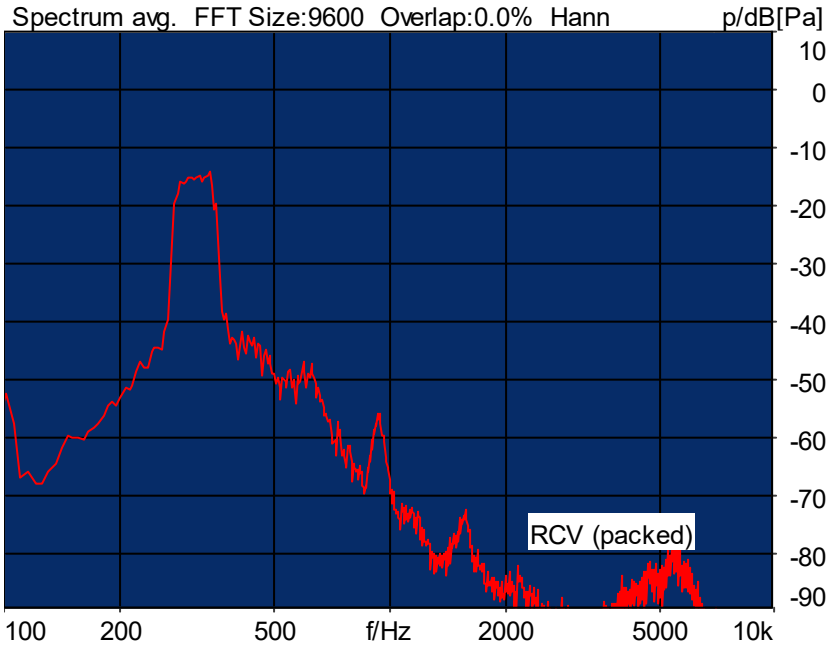
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 29.07 dB (3.52%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

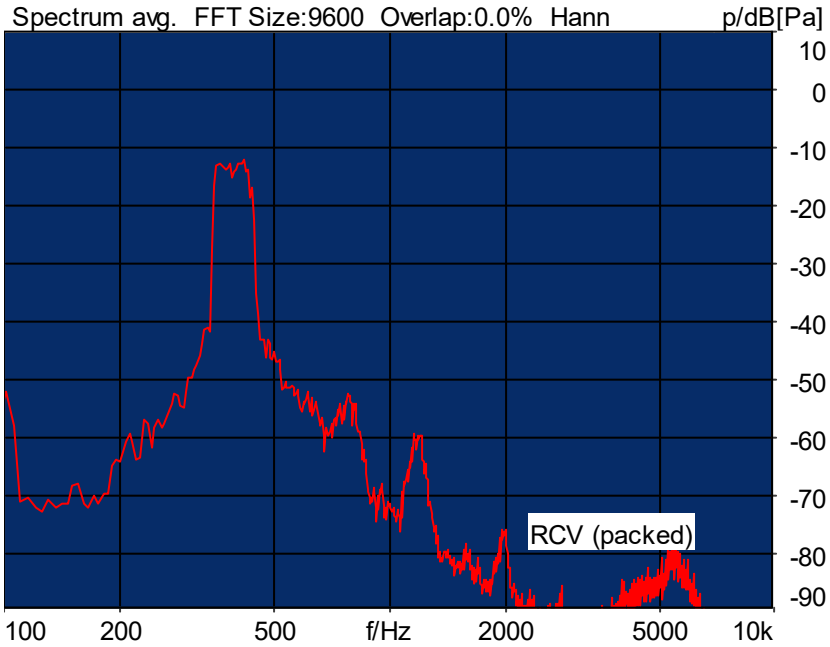
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.54 dB (1.88%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

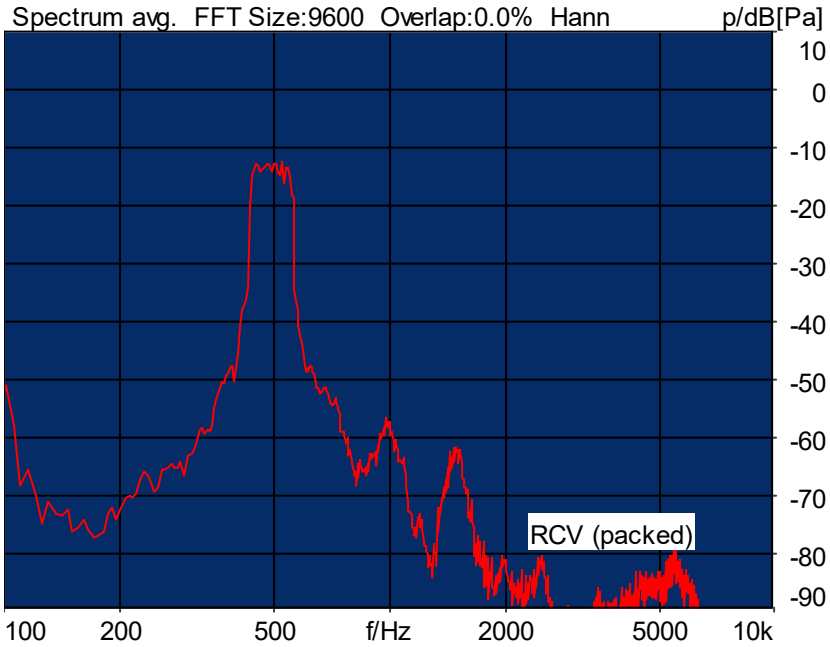
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.02 dB (1.58%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

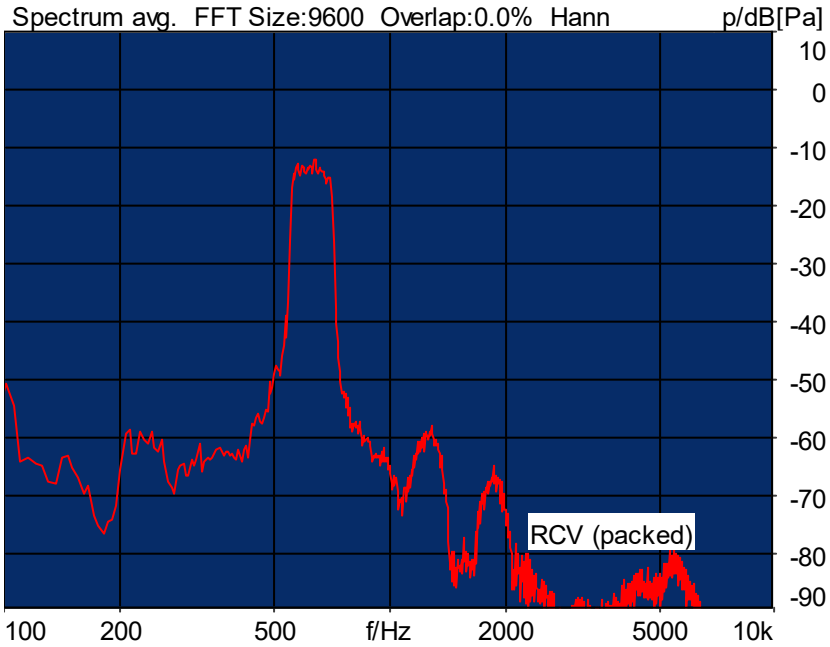
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.57 dB (1.18%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

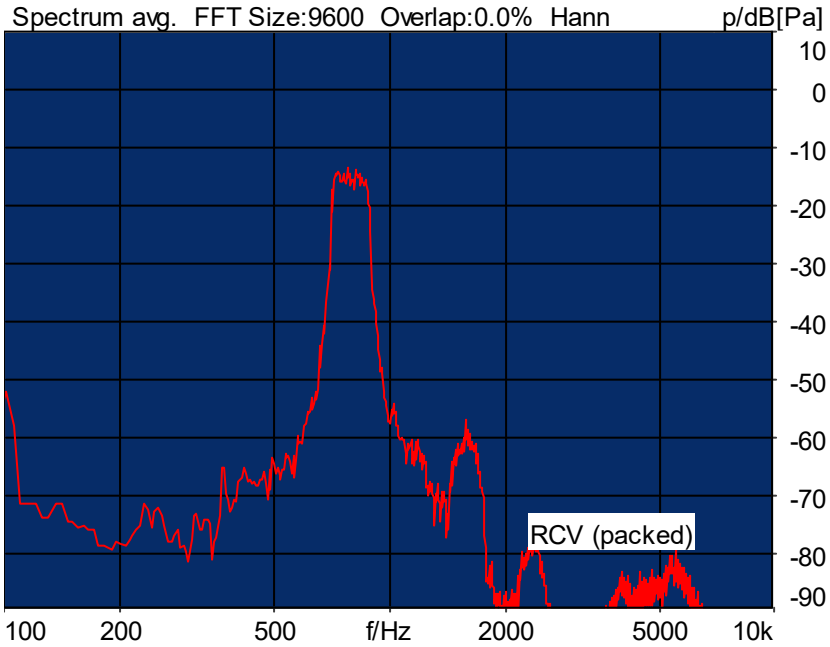
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.47 dB (1.89%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

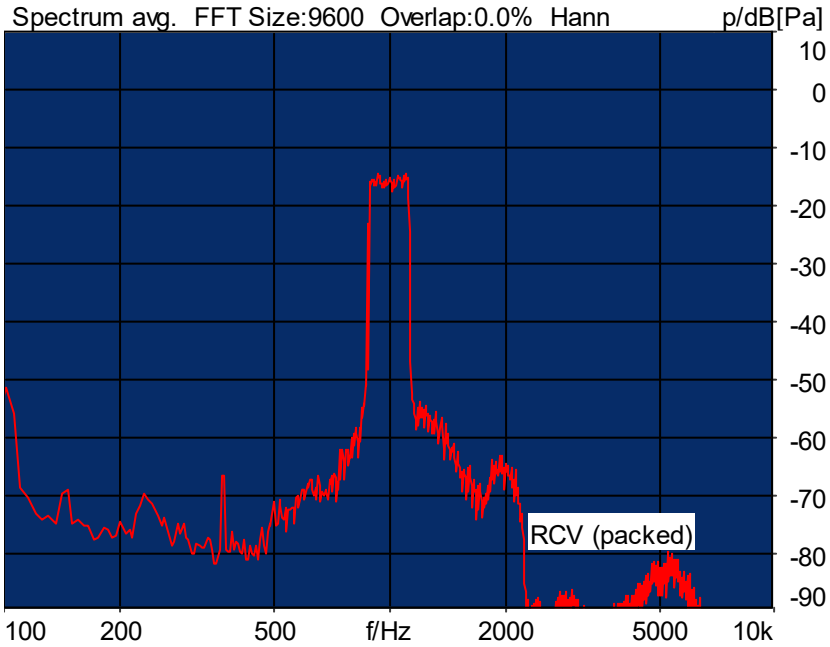
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.51 dB (1.19%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

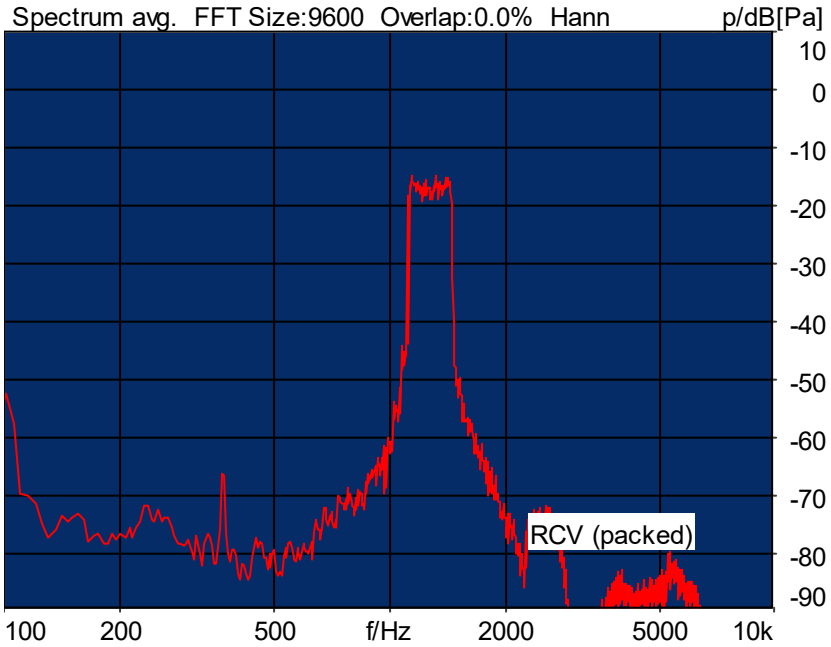
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 30.45 dB (3.00%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

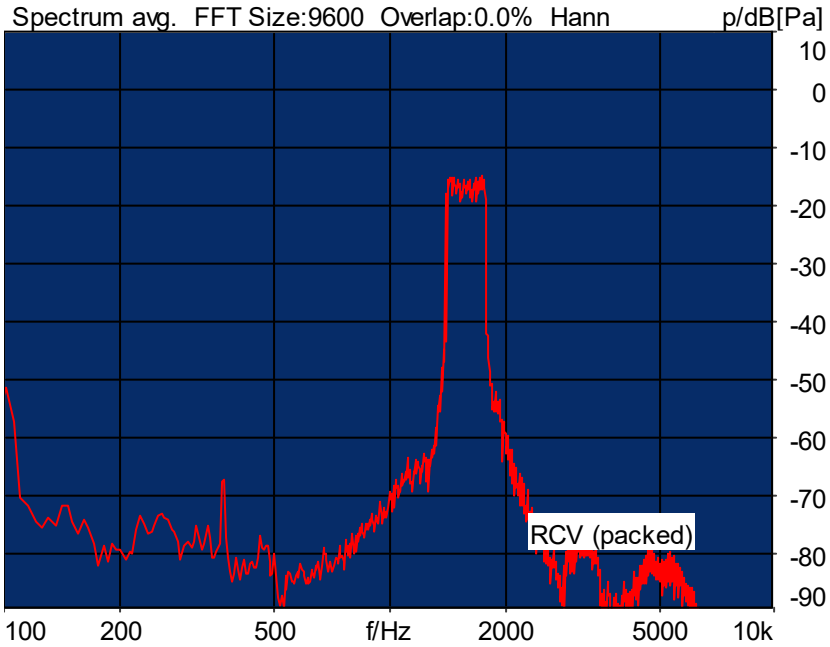
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.14 dB (1.24%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

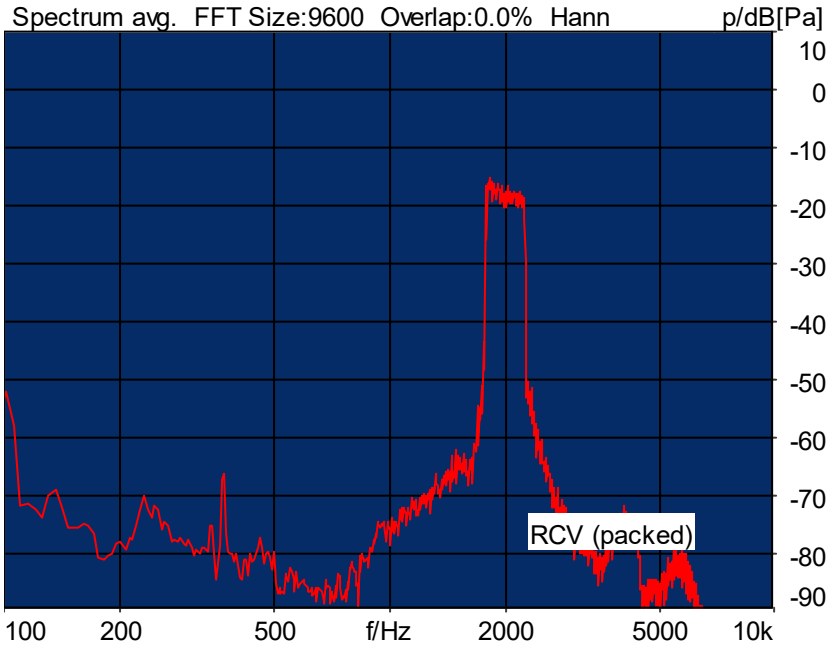
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.77 dB (1.29%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

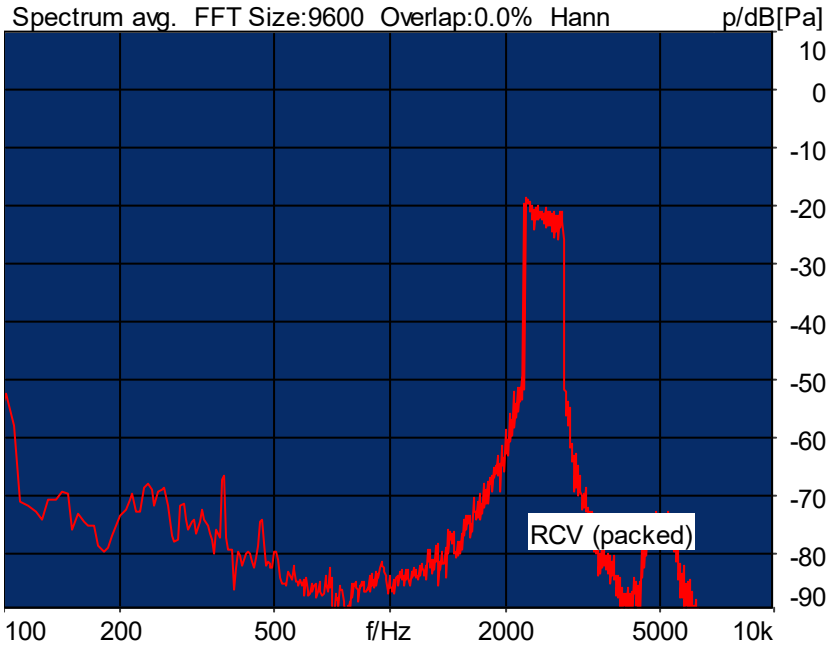
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.85 dB (1.81%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

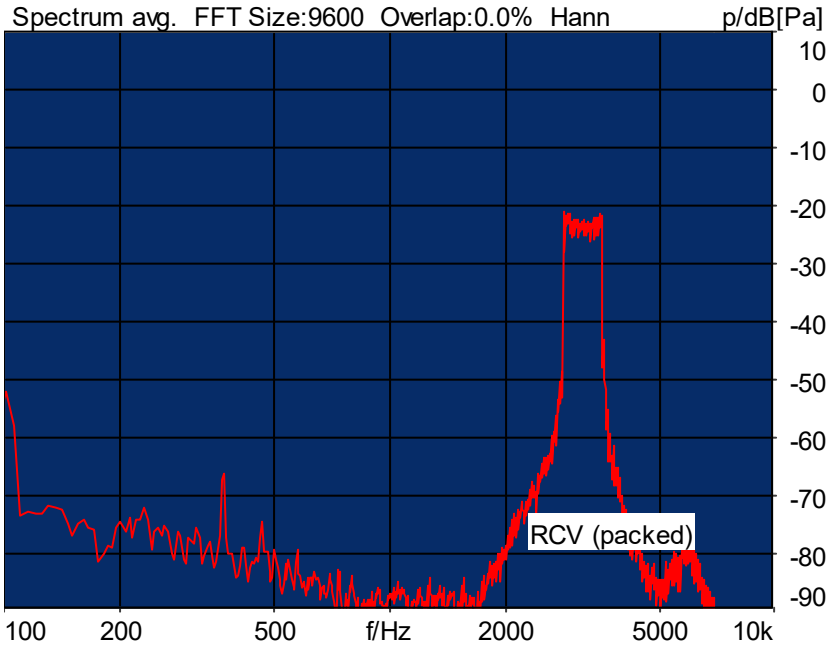
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.25 dB (2.17%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

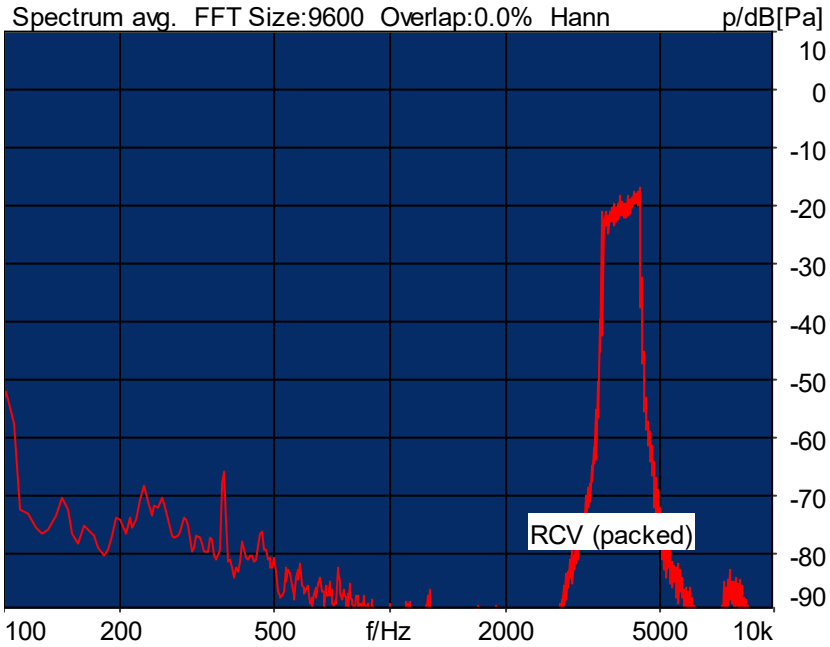
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.97 dB (2.52%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

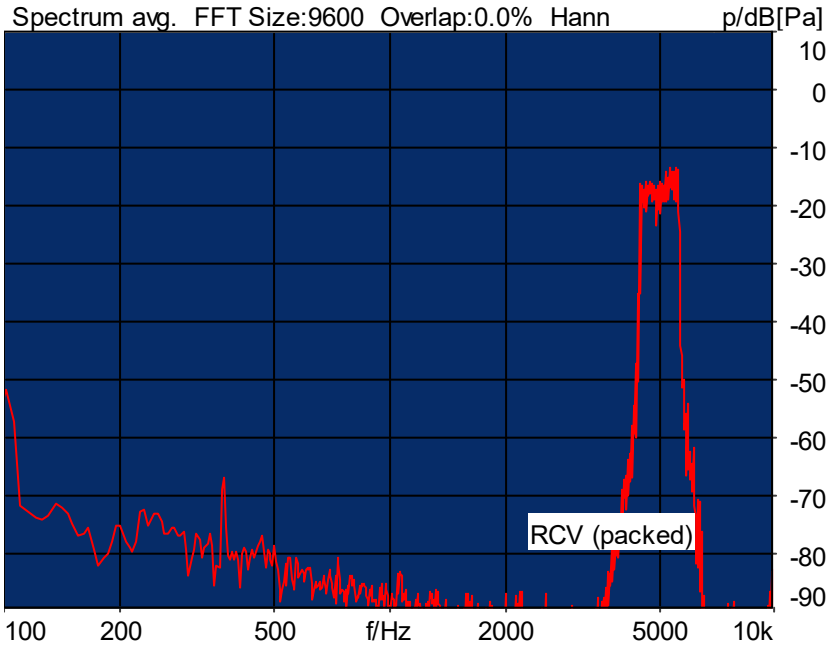
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.65 dB (2.08%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

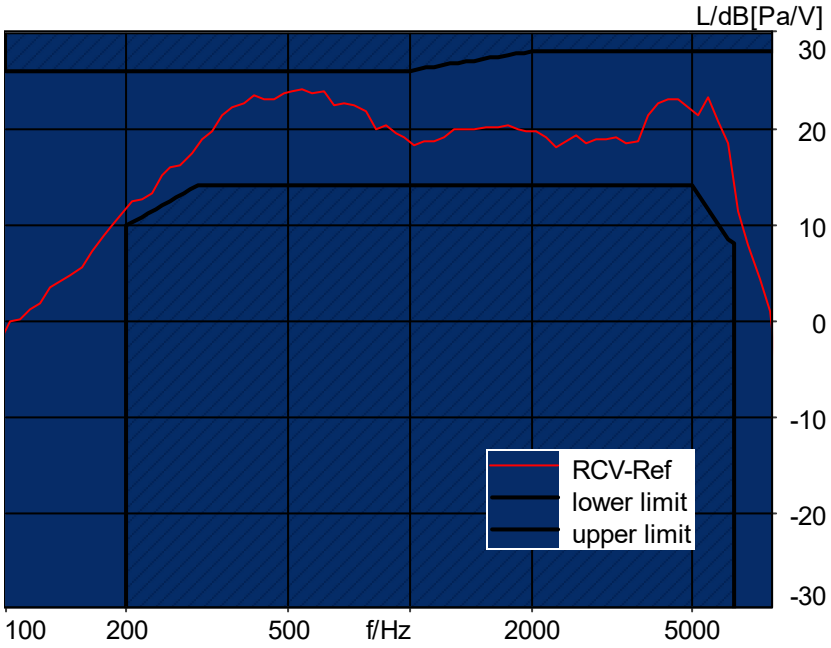
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.83 dB at 544.4 Hz Ok

Ok

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Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	116.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(13#)

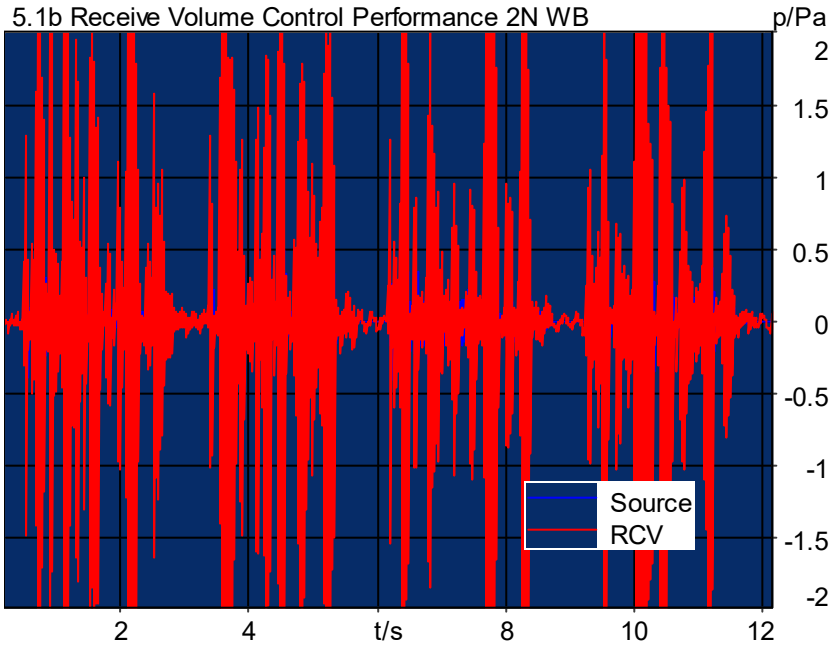
Measurement Object	Ti-CC26080336-LTEB25

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.41	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.38	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.09	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.29	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.23	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.49	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.56	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.60	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.14	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.28	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.75	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.50	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.91	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.55	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.95	Ti-CC26080336-LTEB25
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.71	Ti-CC26080336-LTEB25

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-13.2



Channel	Speech level	Activity	
RCV	86.41 dB[SPL]	80.70%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	136.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

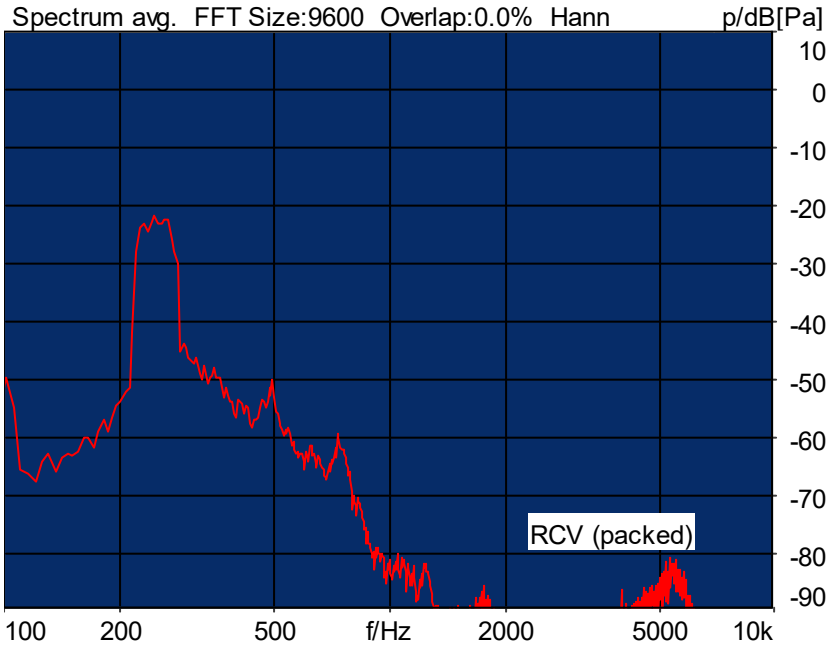
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 27.38 dB (4.28%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

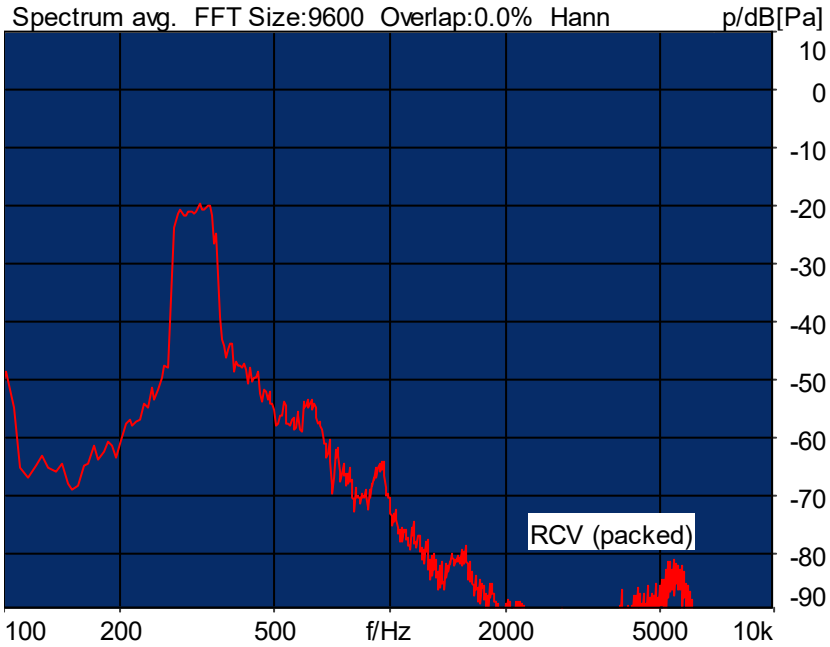
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 29.09 dB (3.51%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

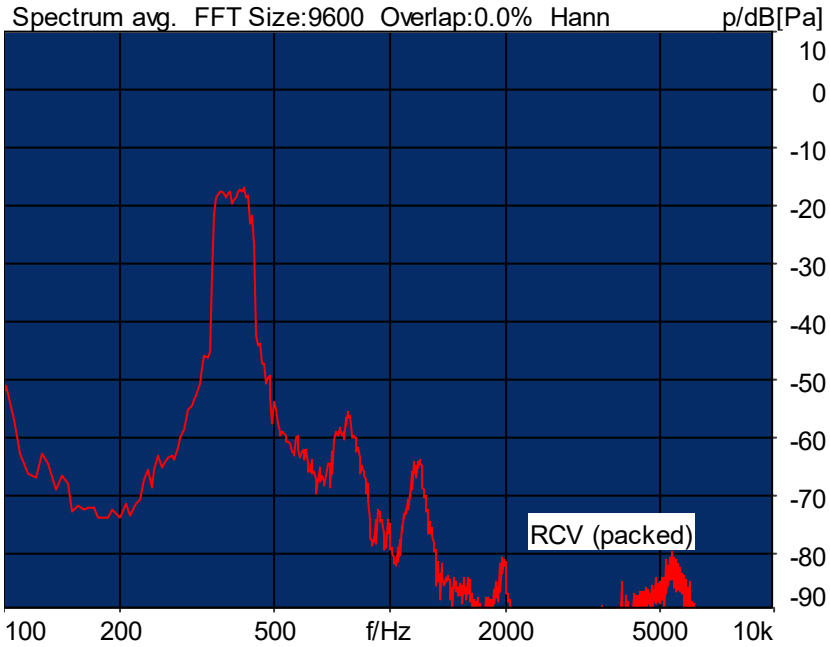
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.29 dB (1.53%) Ok

Ok

2026/9/7 11:38 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

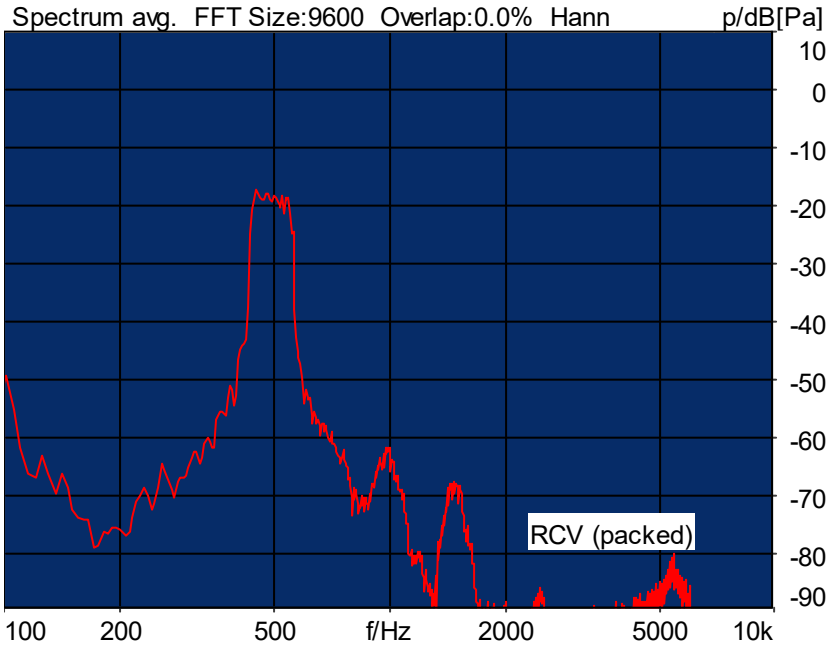
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.23 dB (1.54%) Ok

Ok

2026/9/7 11:39 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

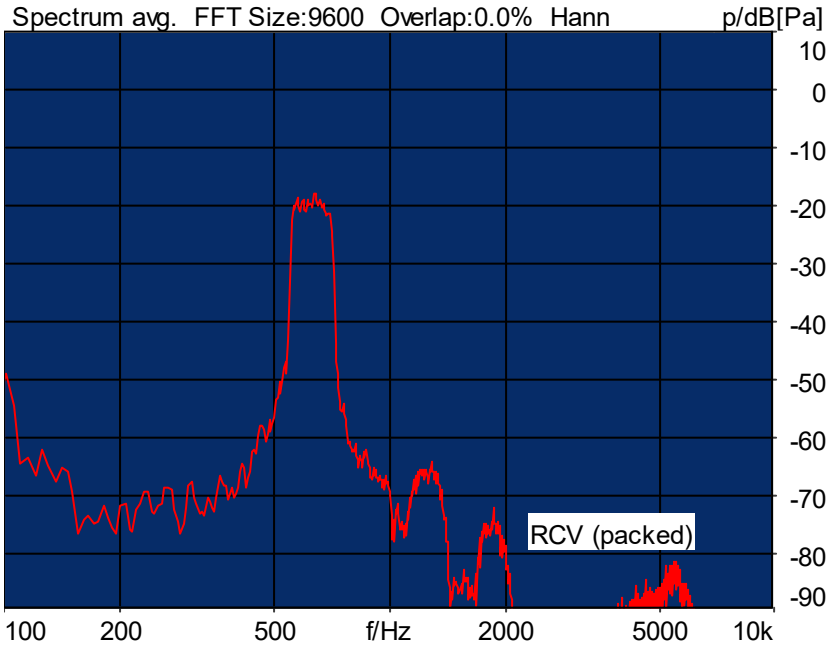
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.49 dB (1.34%) Ok

Ok

2026/9/7 11:39 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

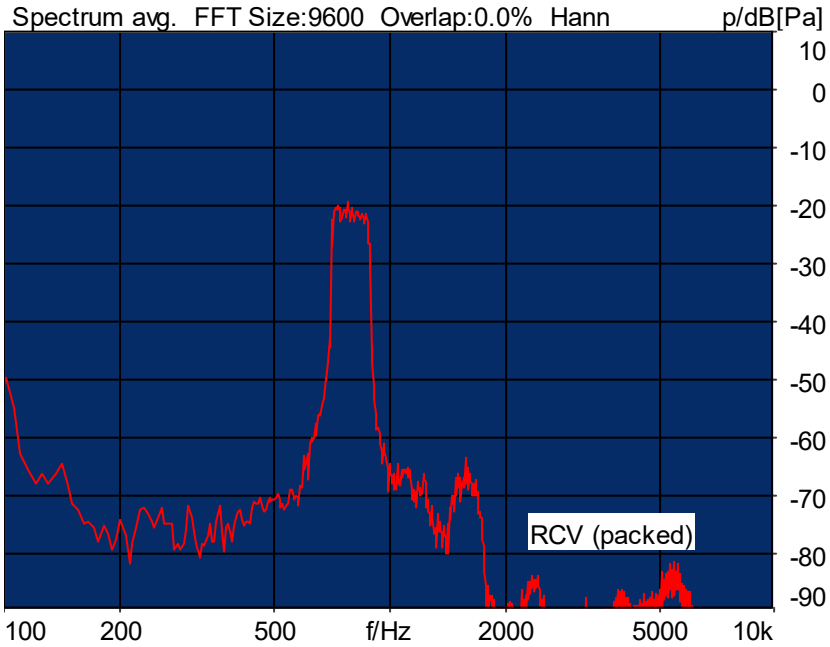
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.56 dB (1.32%) Ok

Ok

2026/9/7 11:40 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

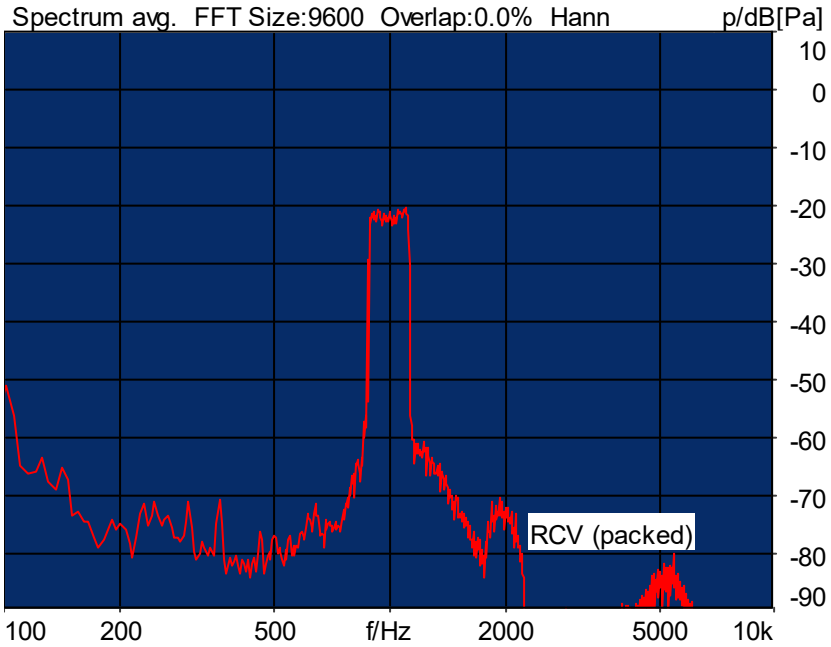
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 39.60 dB (1.05%) Ok

Ok

2026/9/7 11:40 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

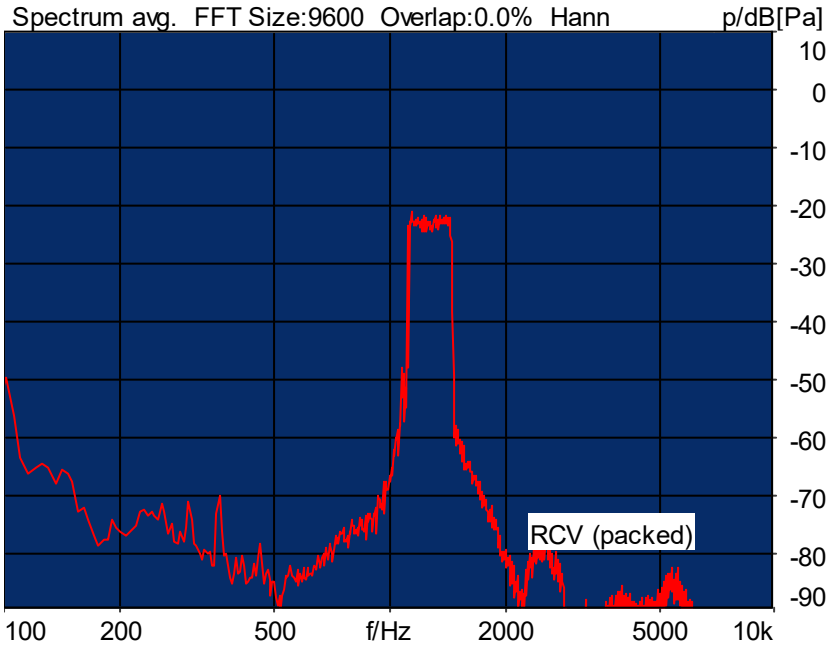
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.14 dB (2.77%) Ok

Ok

2026/9/7 11:40 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

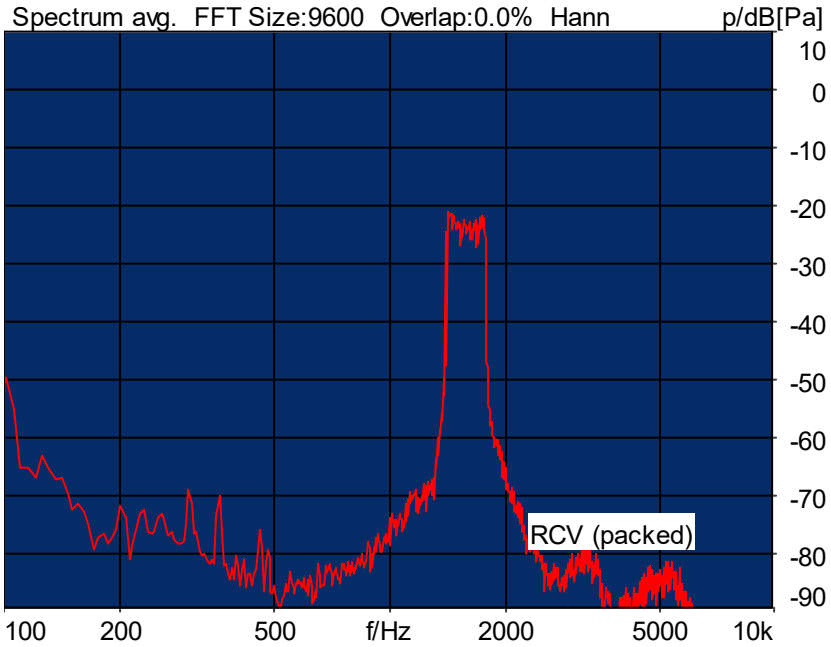
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.28 dB (1.37%) Ok

Ok

2026/9/7 11:41 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

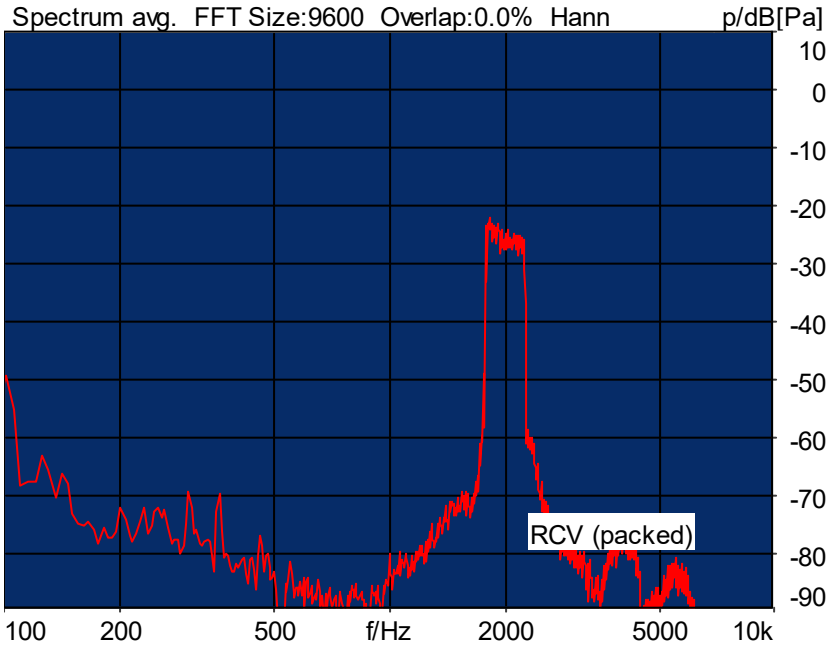
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.75 dB (1.30%) Ok

Ok

2026/9/7 11:41 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

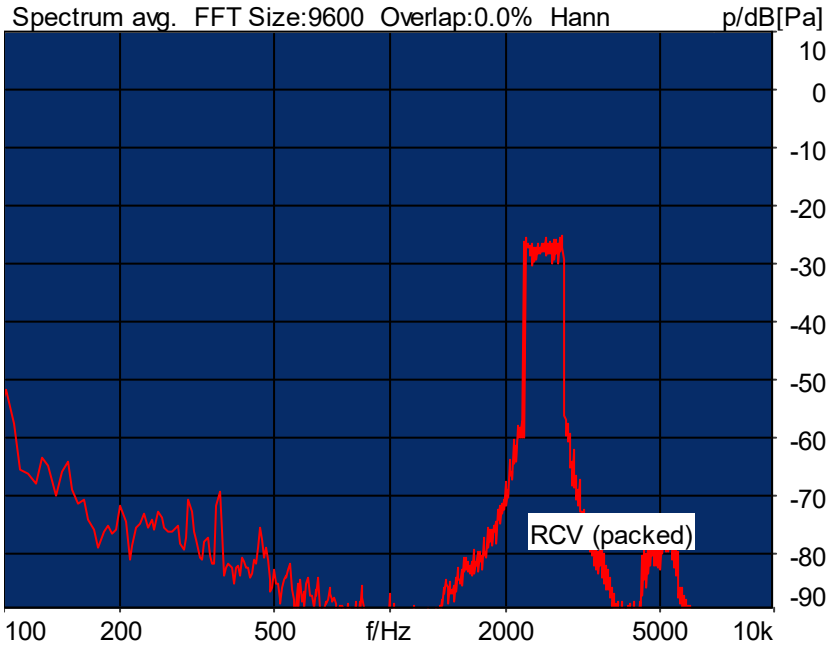
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.50 dB (1.88%) Ok

Ok

2026/9/7 11:41 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

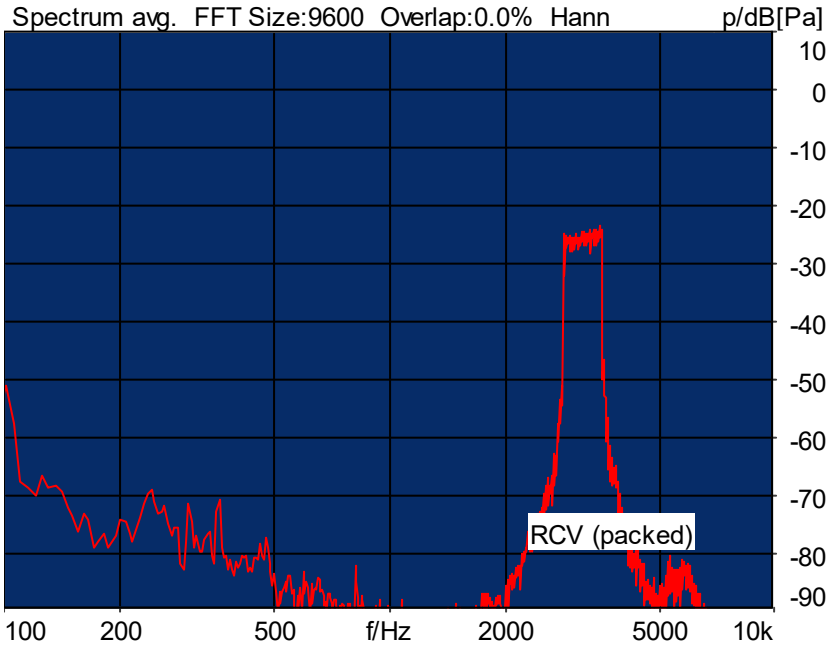
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.91 dB (2.26%) Ok

Ok

2026/9/7 11:42 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

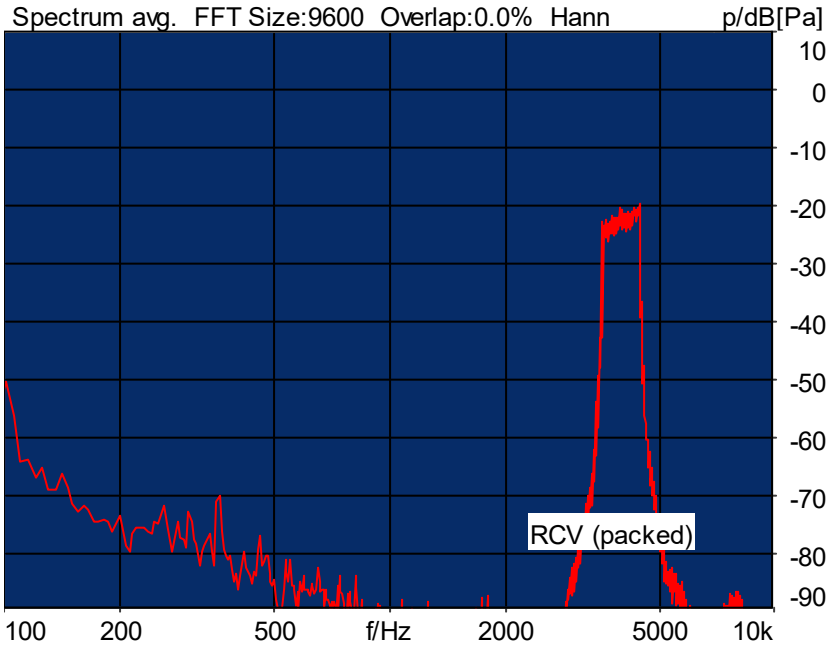
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.55 dB (2.64%) Ok

Ok

2026/9/7 11:42 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

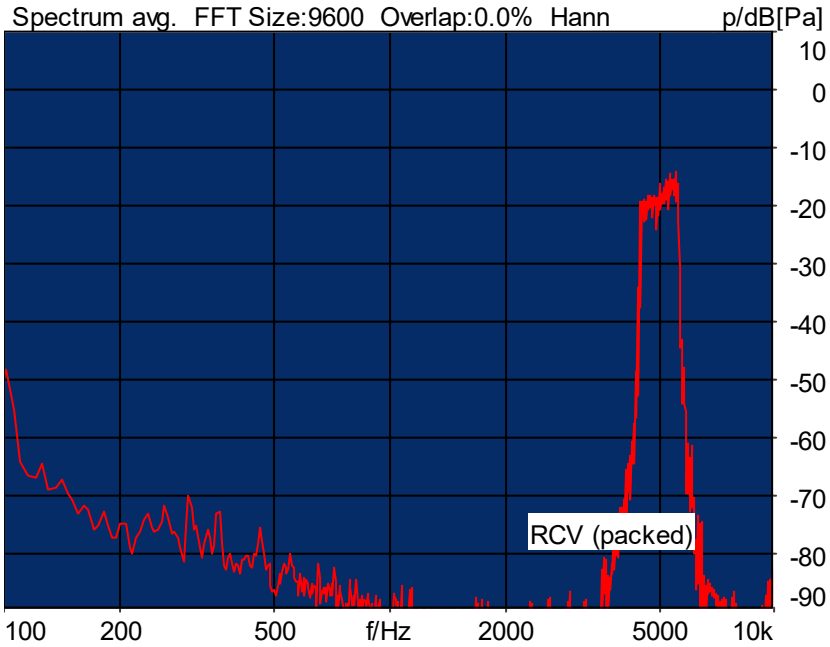
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.95 dB (2.01%) Ok

Ok

2026/9/7 11:43 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

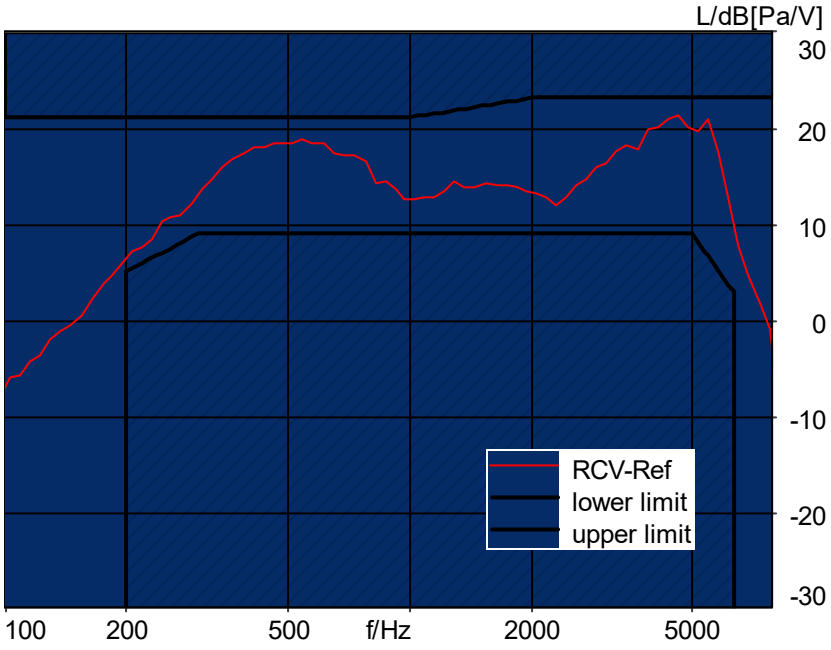
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF

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



Absolute minimal distance

1.71 dB at 4620.1 Hz Ok

Ok

2026/9/8 19:43 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(14#)

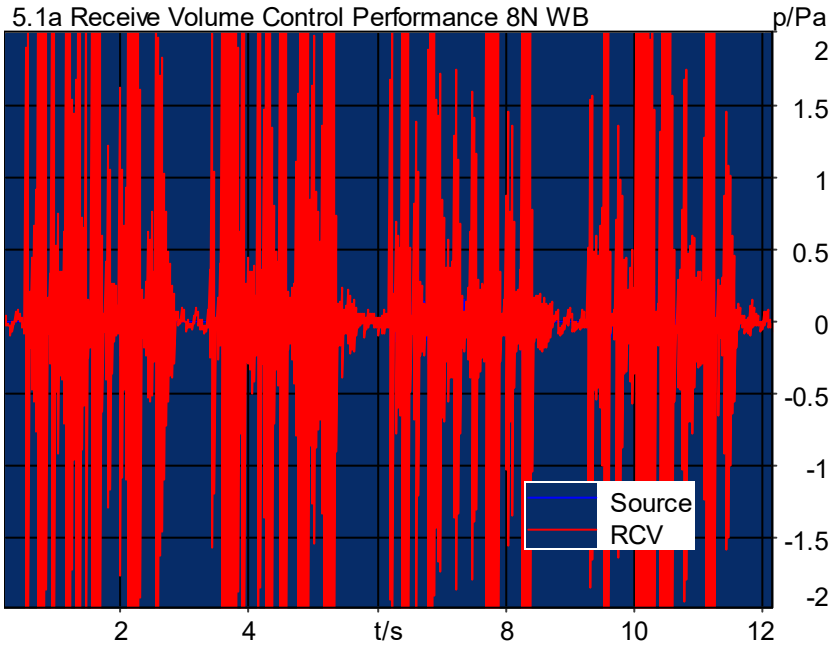
Measurement Object	Ti-CC26080336-LTEB25

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.28	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.60	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.23	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.13	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.82	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.11	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.50	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.78	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.96	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.23	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.41	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.84	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.97	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.76	Ti-CC26080336-LTEB25
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.12	Ti-CC26080336-LTEB25
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 217.7 Hz	1.84	Ti-CC26080336-LTEB25

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-13.2



Channel	Speech level	Activity	
RCV	91.28 dB[SPL]	80.75%	Ok

Ok

2026/9/12 4:53 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	117.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

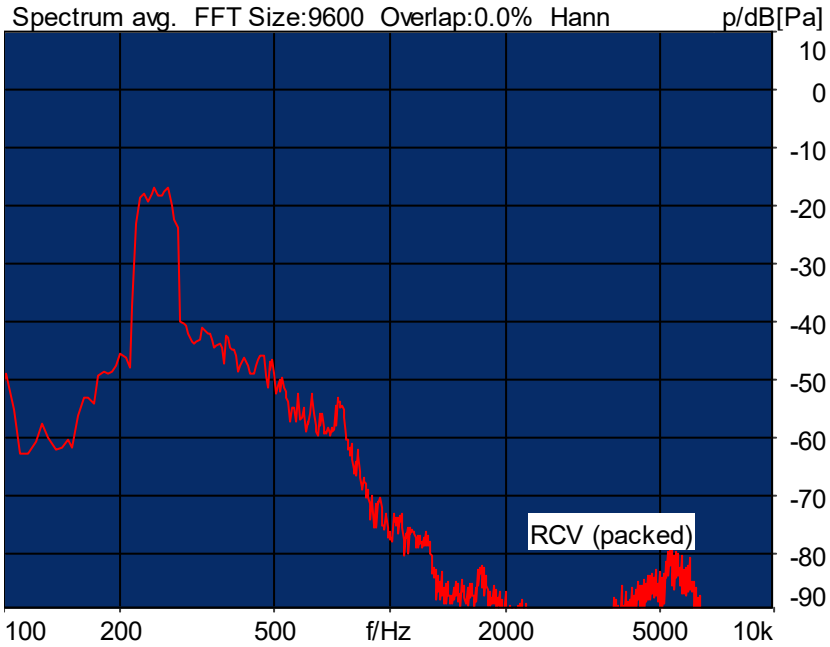
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 25.60 dB (5.25%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

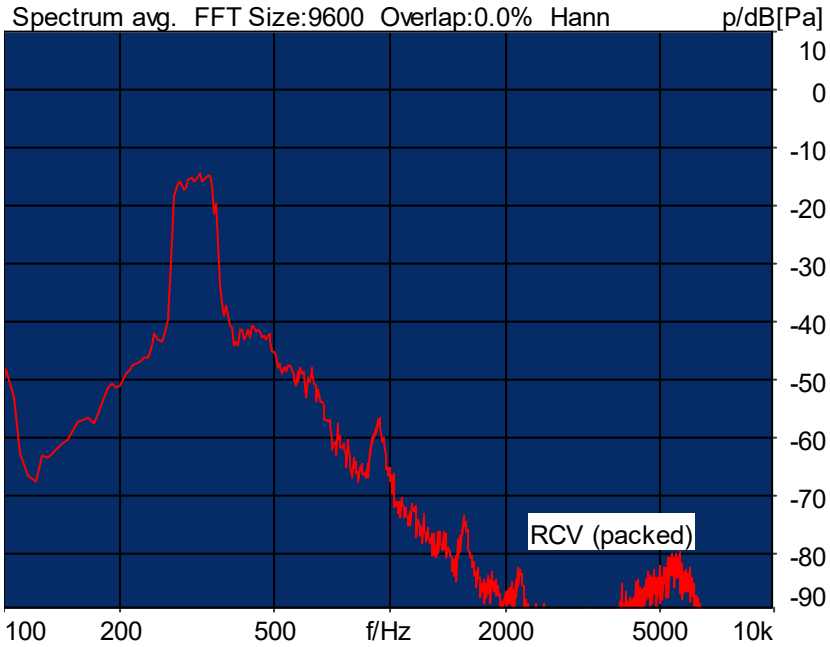
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 27.23 dB (4.35%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

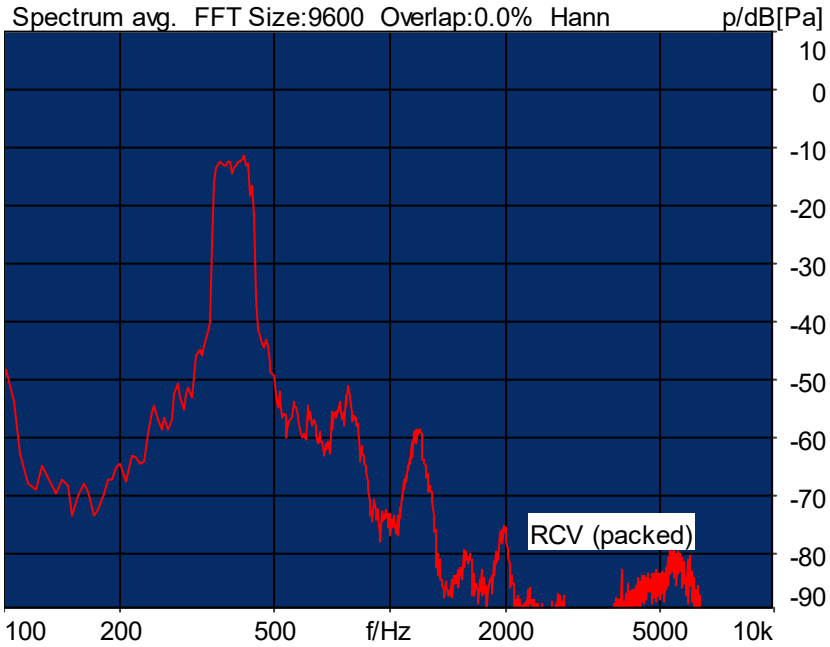
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.13 dB (1.39%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

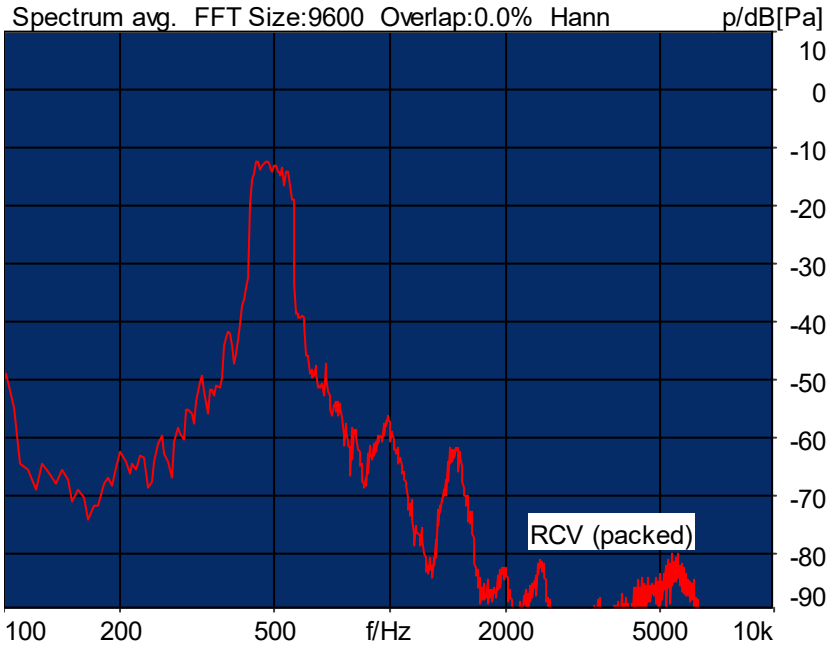
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

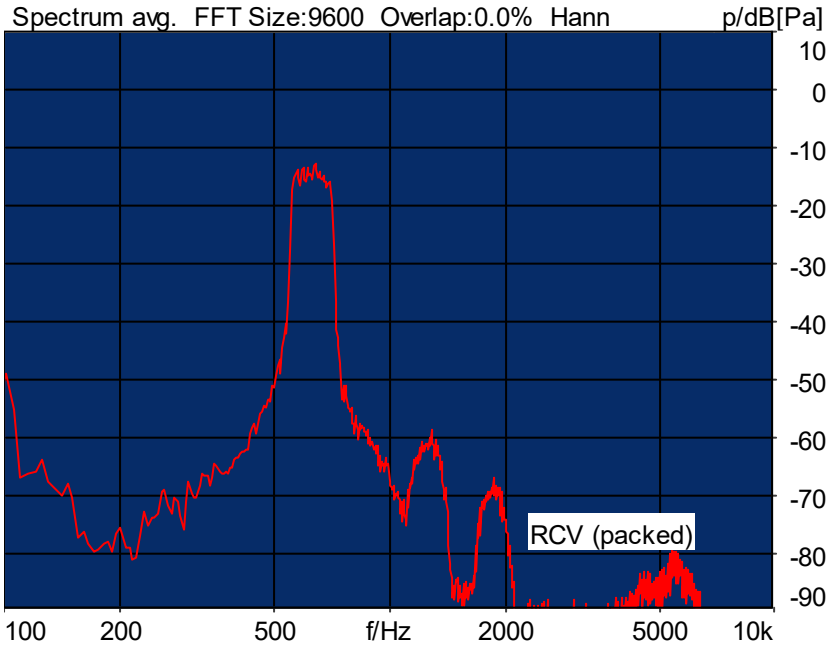
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.11 dB (1.24%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

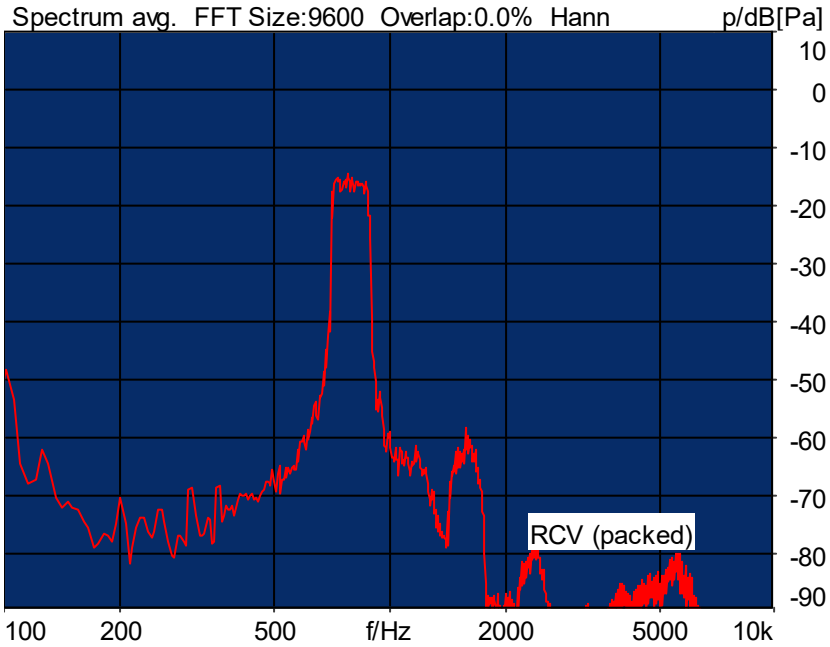
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.50 dB (1.19%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

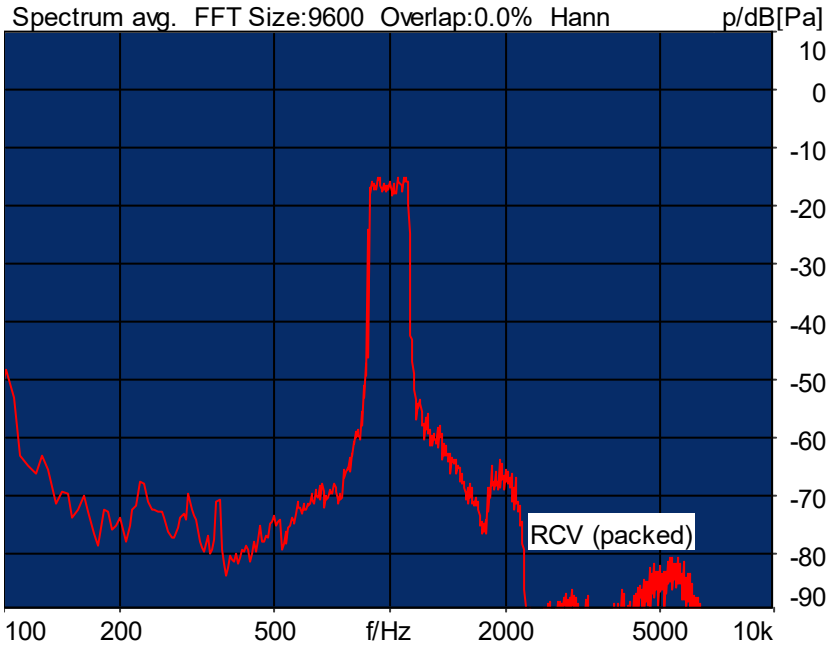
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.78 dB (1.15%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

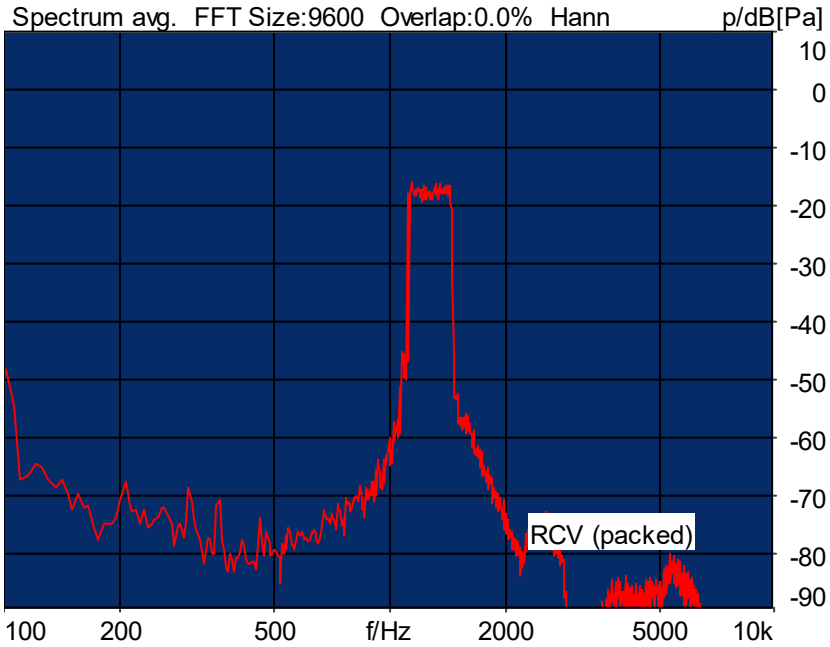
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 30.96 dB (2.83%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

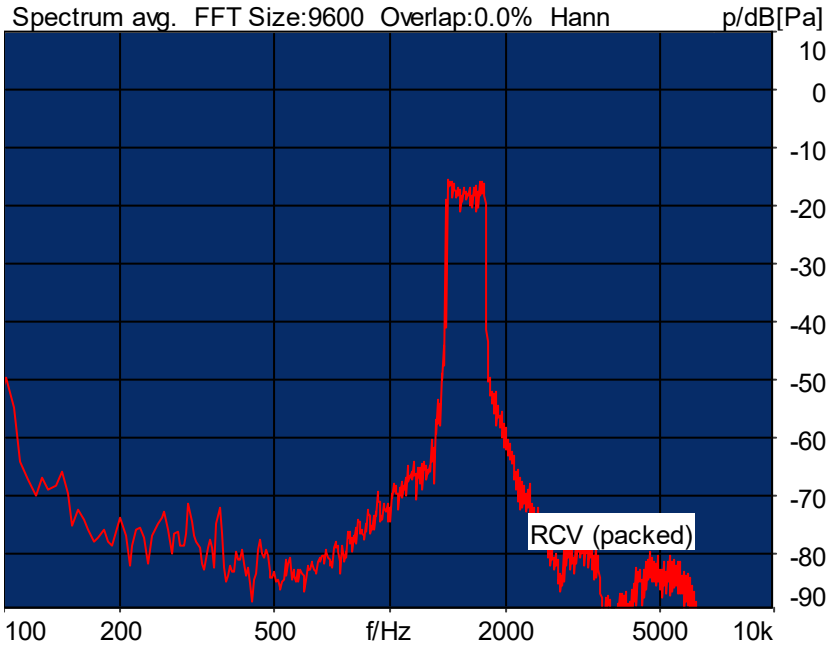
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.23 dB (1.38%) Ok

Ok

2026/9/7 12:18 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

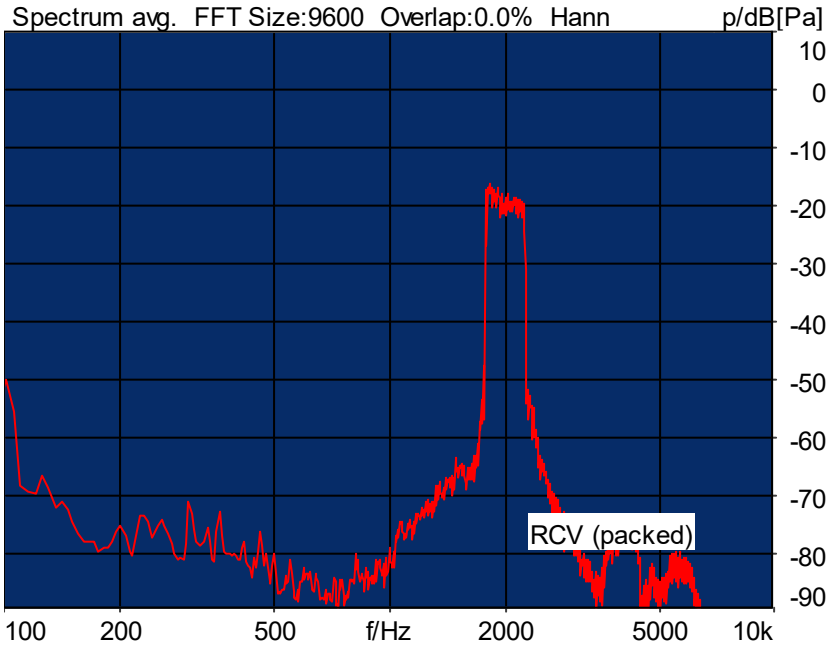
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.41 dB (1.20%) Ok

Ok

2026/9/7 12:18 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

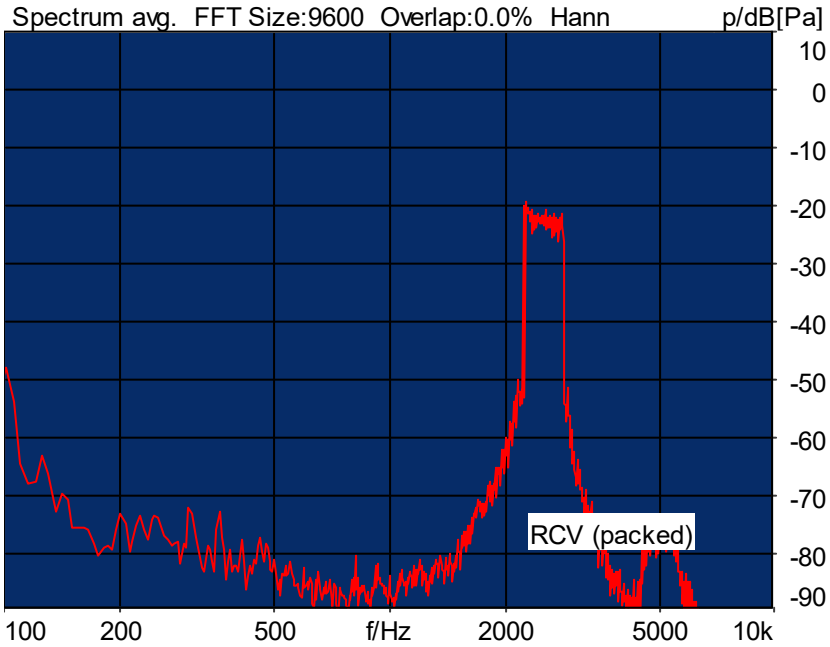
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.84 dB (2.03%) Ok

Ok

2026/9/7 12:19 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

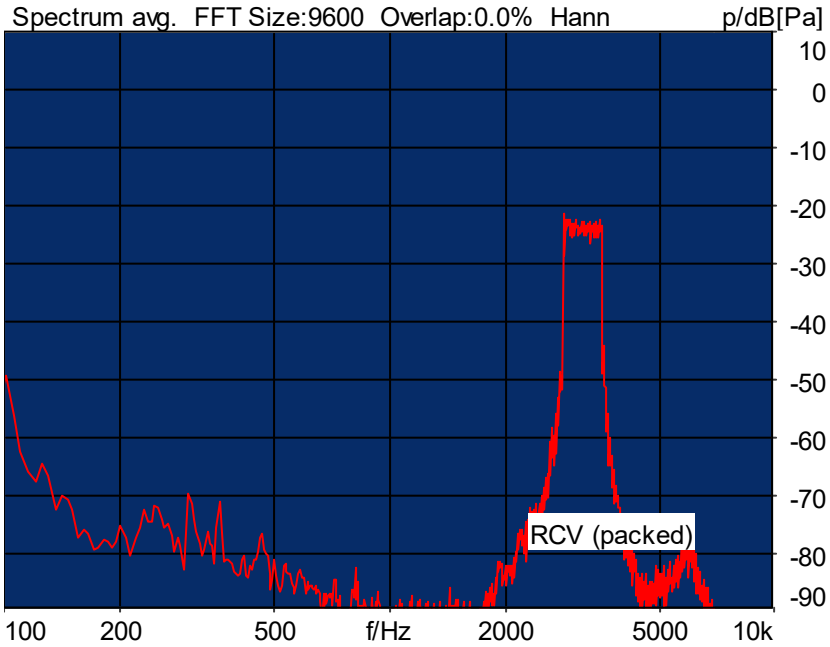
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.97 dB (2.25%) Ok

Ok

2026/9/7 12:19 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

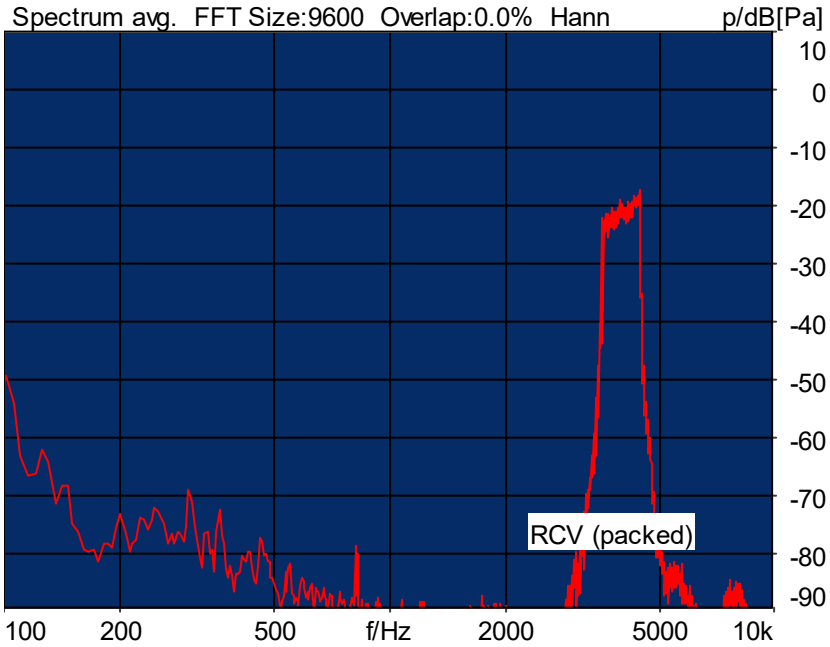
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



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

Ok

2026/9/7 12:20 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

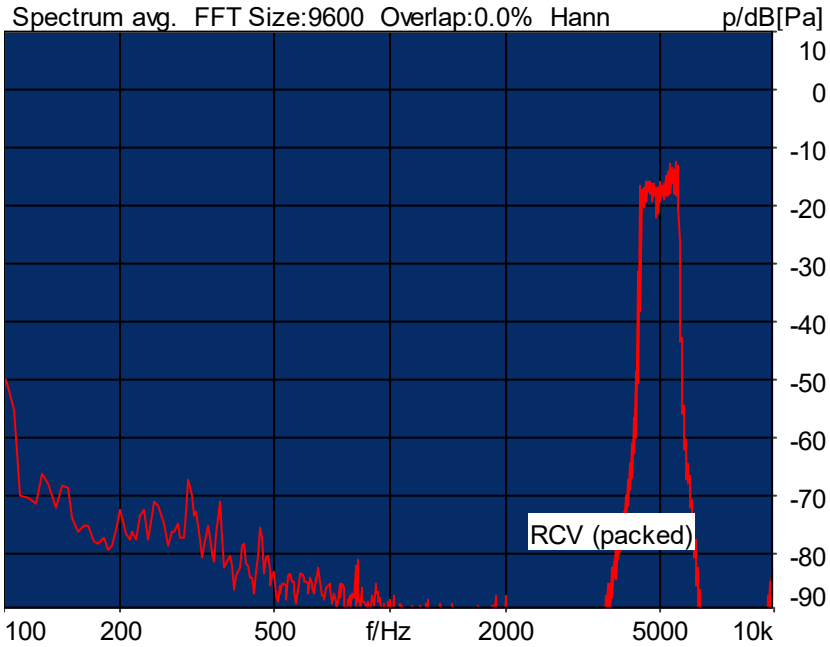
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.12 dB (1.97%) Ok

Ok

2026/9/7 12:20 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

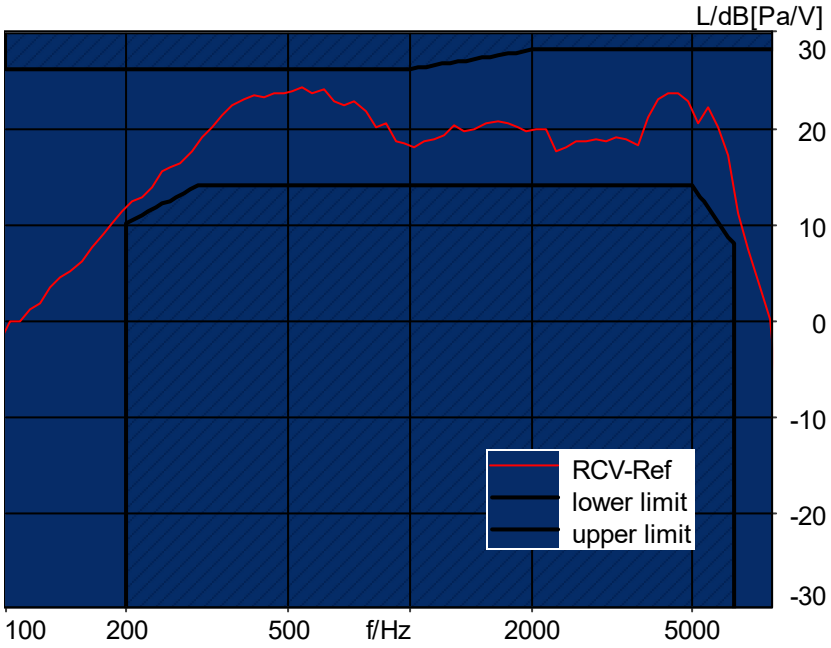
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.84 dB at 217.7 Hz Ok

Ok

2026/9/8 19:48 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	114.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(15#)

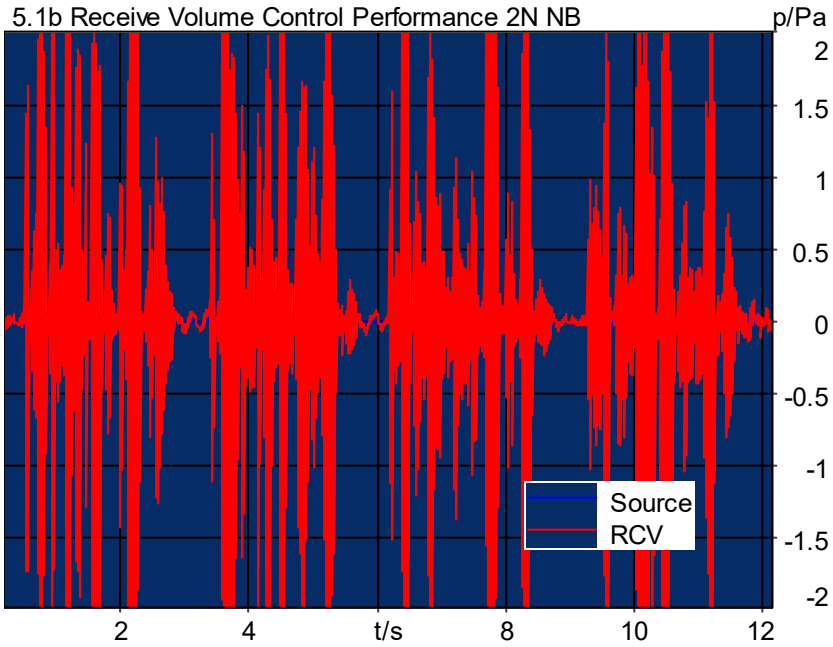
Measurement Object	Ti-CC26080336-LTEB26

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.75	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.00	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.47	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.22	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.46	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.94	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.54	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.87	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.15	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.71	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.22	Ti-CC26080336-LTEB26
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.50	Ti-CC26080336-LTEB26

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Channel	Speech level	Activity	
RCV	86.75 dB[SPL]	80.70%	Ok

Ok

2026/9/12 5:10 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	124.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

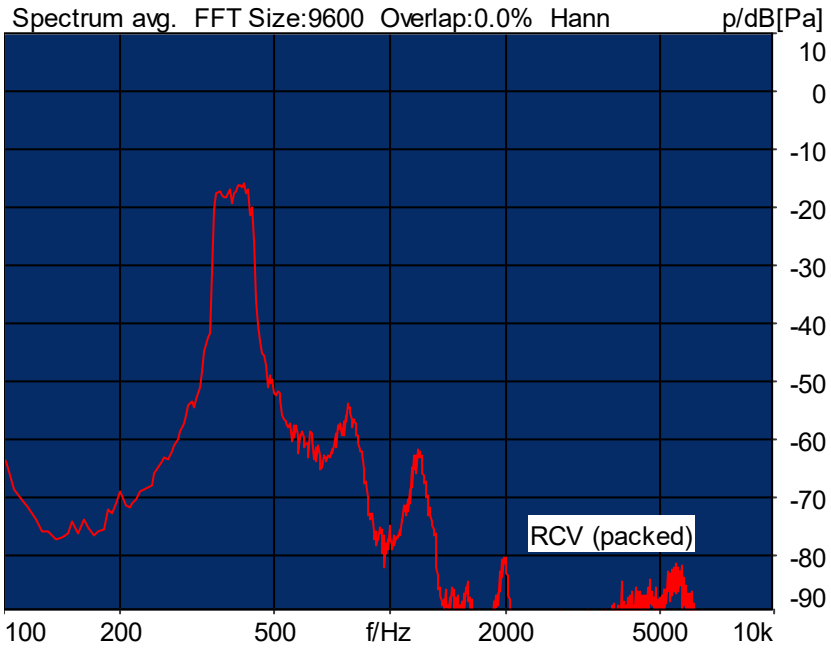
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 35.00 dB (1.78%) Ok

Ok

2026/9/5 5:36 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

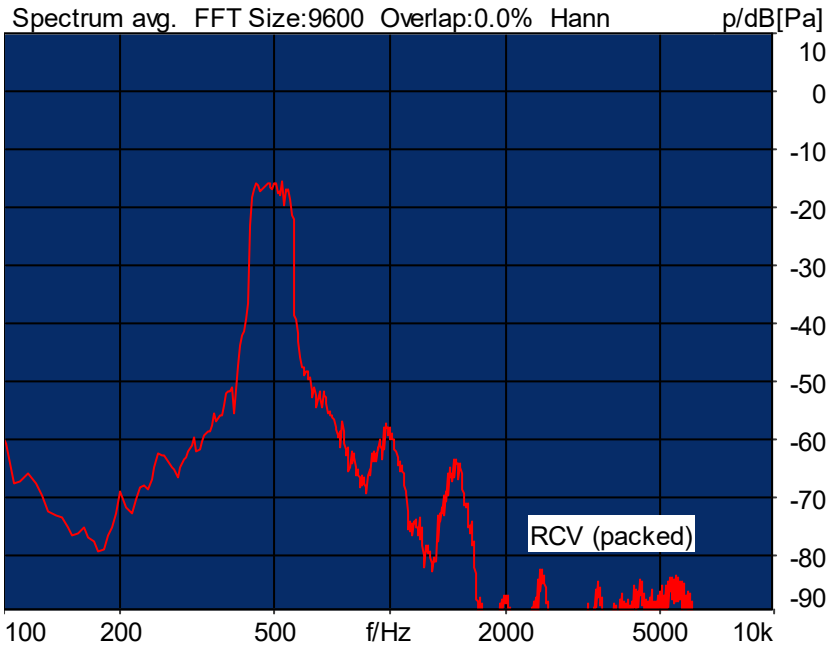
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



Distortion (Noise) RCV (packed): 34.47 dB (1.89%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

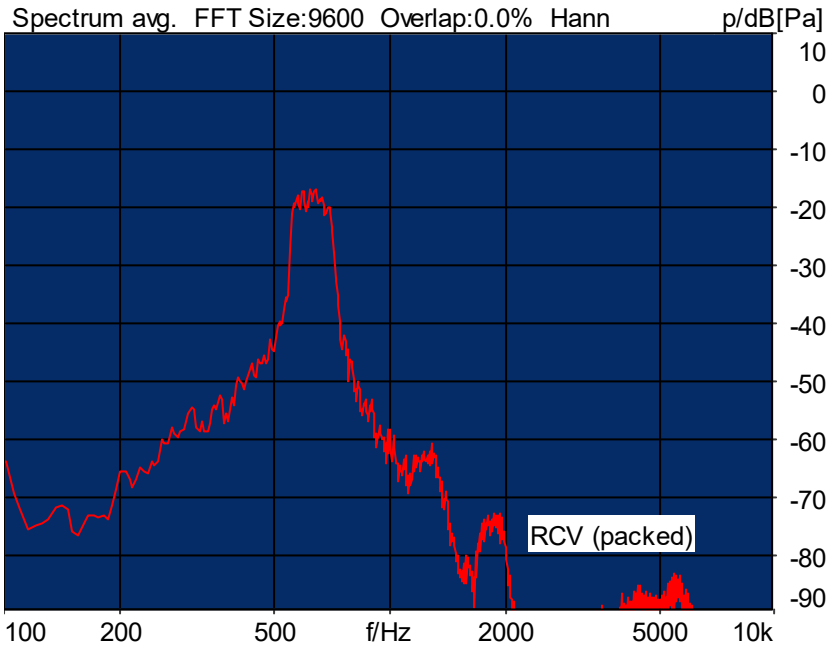
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 27.22 dB (4.36%) Ok

Ok

2026/9/5 5:36 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

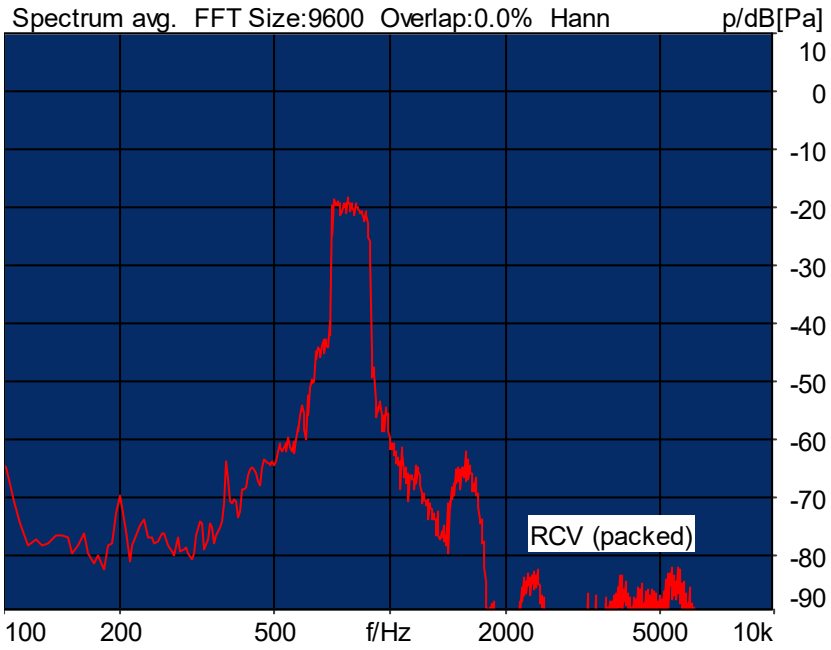
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



Distortion (Noise) RCV (packed): 31.46 dB (2.67%) Ok

Ok

2026/9/5 5:37 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

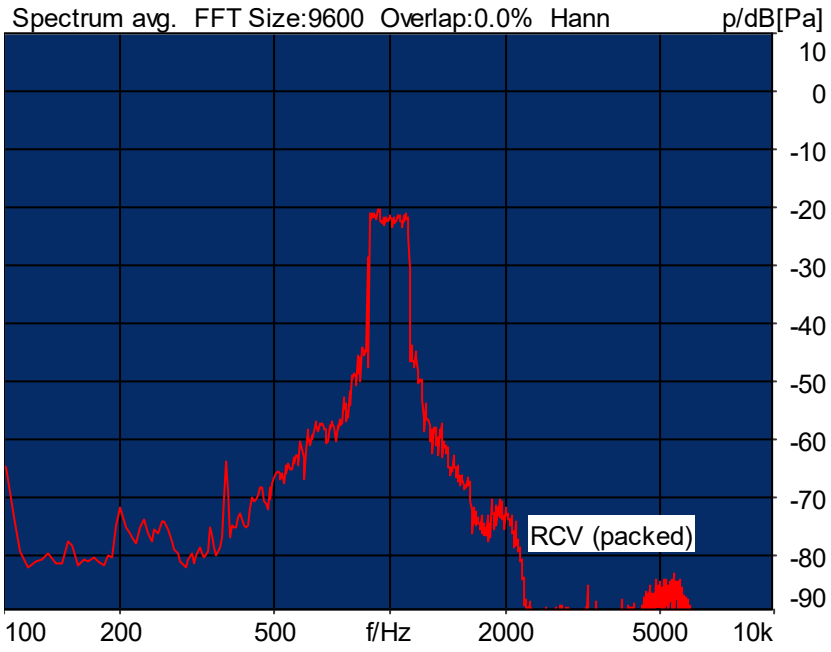
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 27.94 dB (4.01%) Ok

Ok

2026/9/5 5:37 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

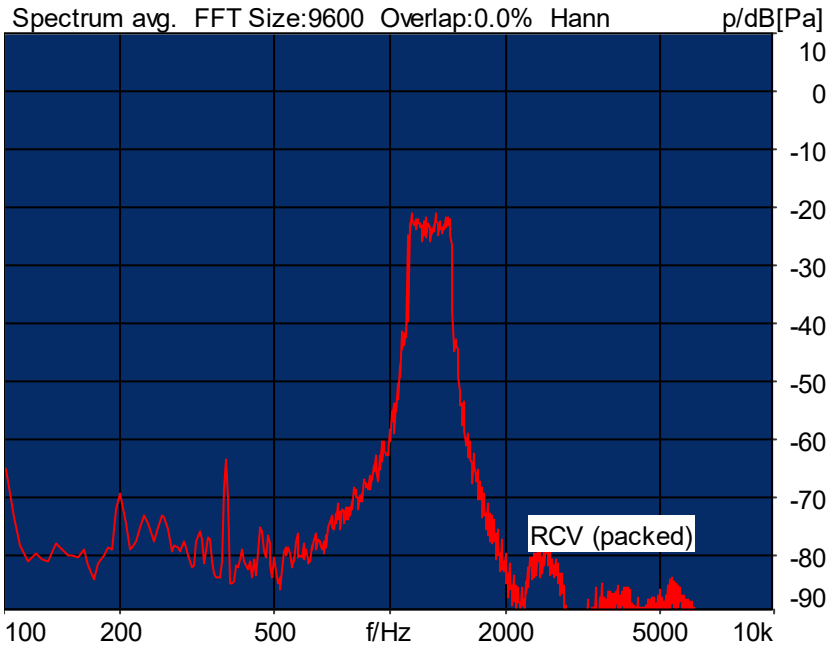
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 25.54 dB (5.29%) Ok

Ok

2026/9/5 5:38 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

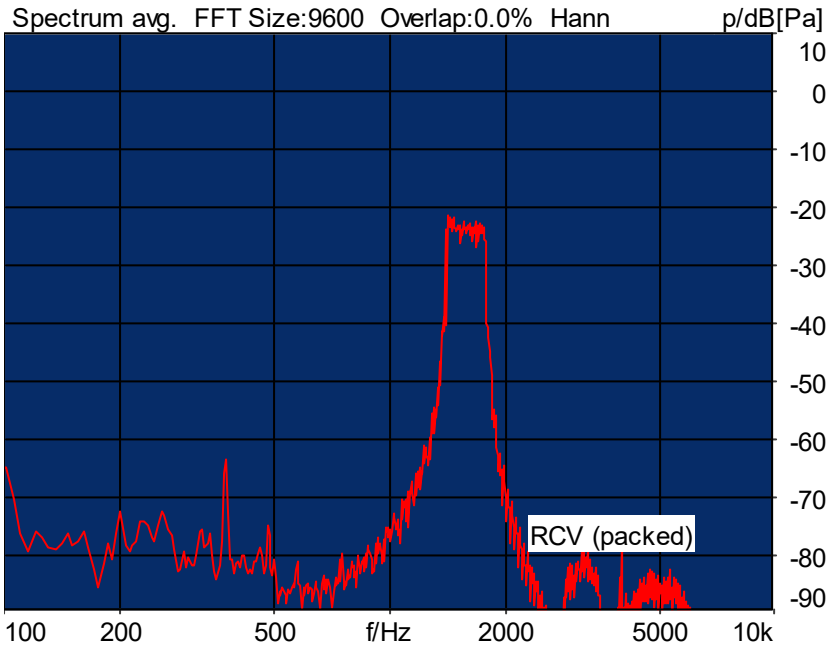
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 28.87 dB (3.60%) Ok

Ok

2026/9/5 5:38 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

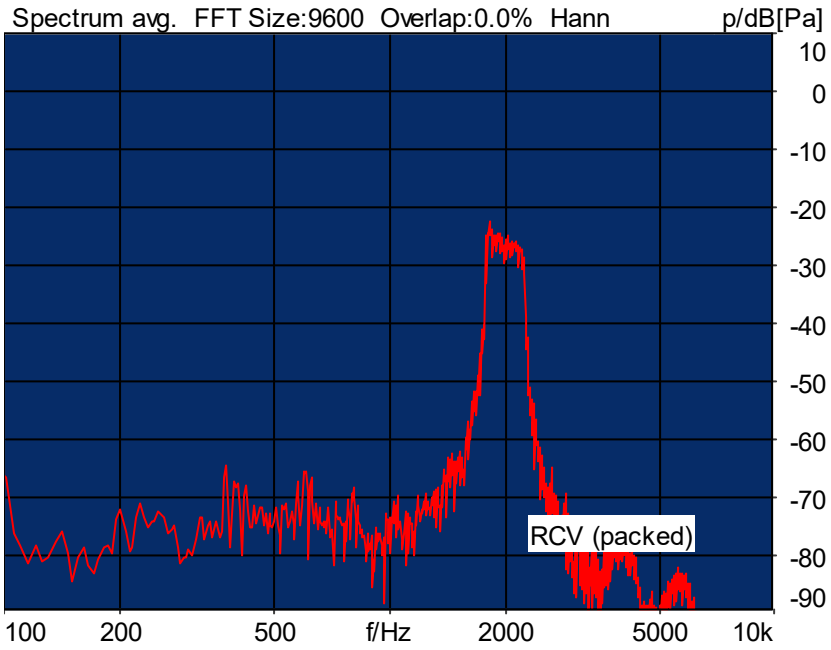
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



Distortion (Noise) RCV (packed): 26.15 dB (4.93%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

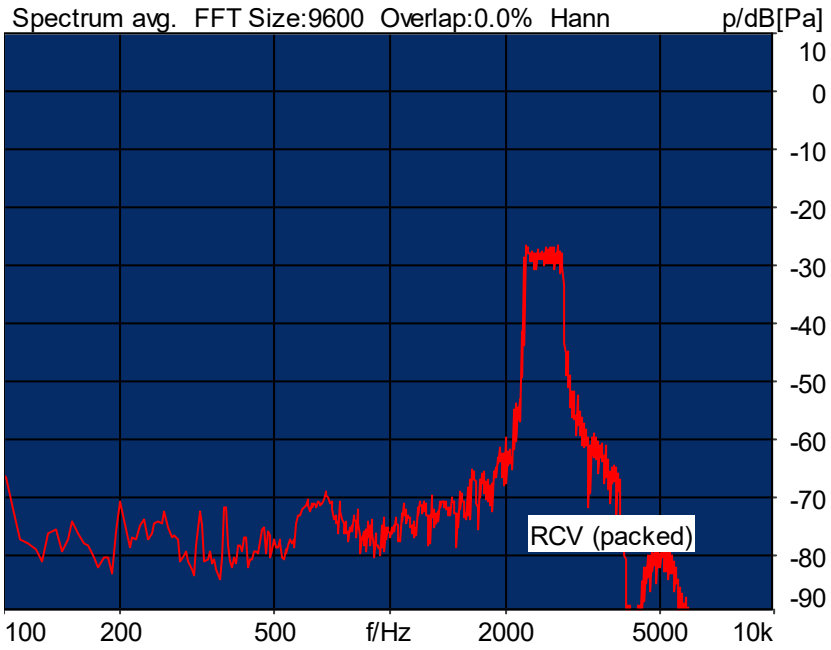
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



Distortion (Noise) RCV (packed): 23.71 dB (6.52%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

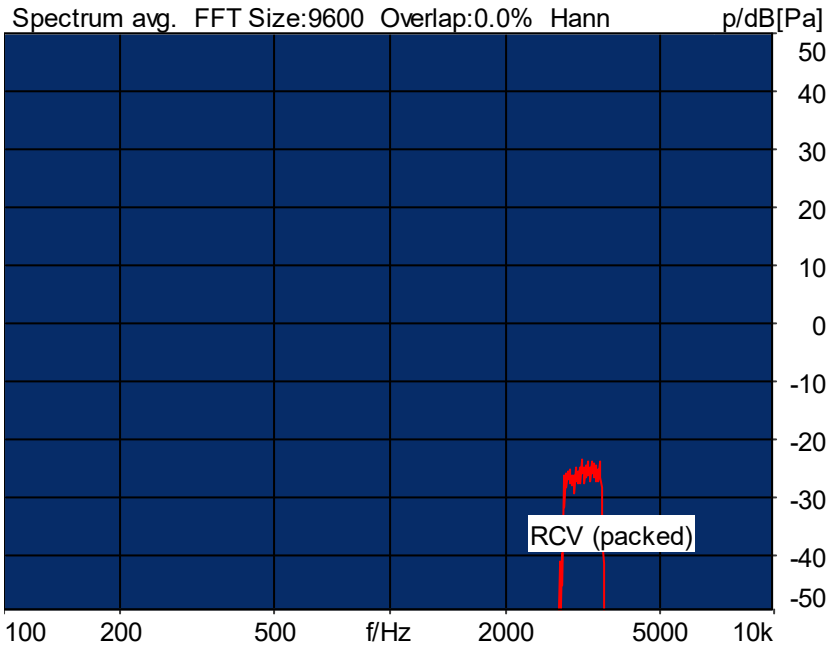
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 29.22 dB (3.46%) Ok

Ok

2026/9/5 5:39 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

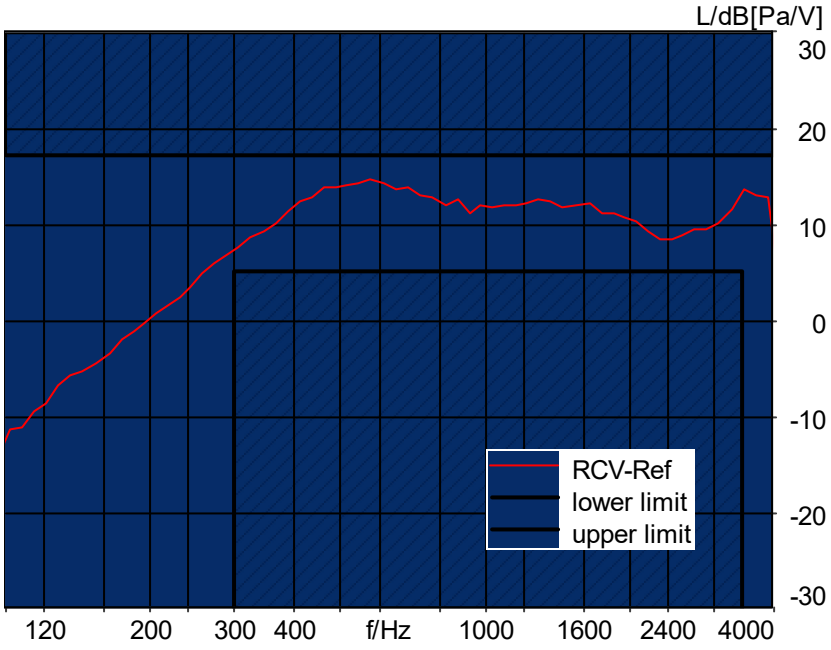
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

2.50 dB at 576.7 Hz Ok

Ok

2026/9/5 5:39 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat

Level adjustment	Channel 1	Gain	-90.00 dB
Level adjustment	Channel 2	Gain	-4.00 dB

NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(16#)

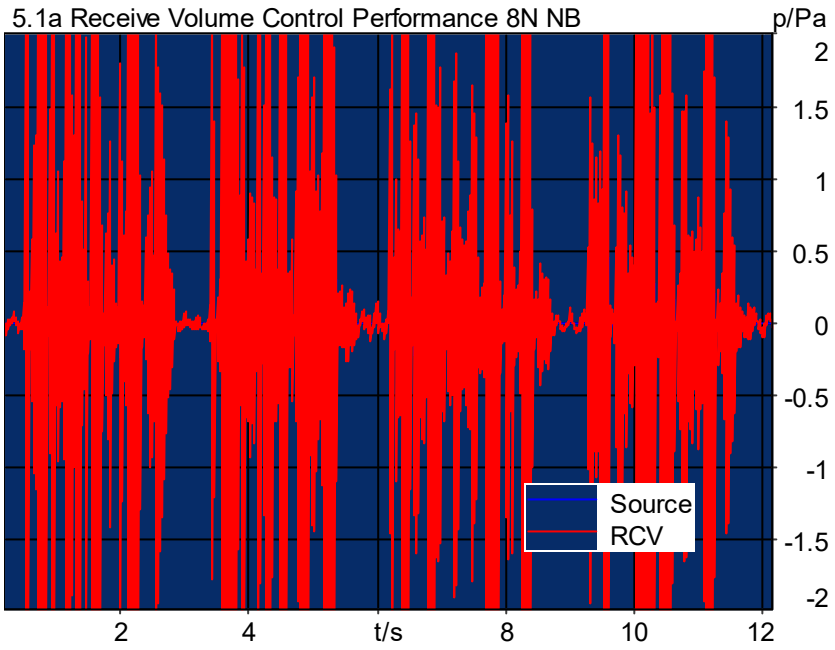
Measurement Object	Ti-CC26080336-LTEB26

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.21	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.29	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.83	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.61	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.99	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.97	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.63	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.45	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.95	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.03	Ti-CC26080336-LTEB26
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.59	Ti-CC26080336-LTEB26
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	2.37	Ti-CC26080336-LTEB26

5.1a Receive Volume Control Performance 8N NB

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



Channel	Speech level	Activity	
RCV	91.21 dB[SPL]	80.93%	Ok

Ok

2026/9/12 5:07 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	111.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

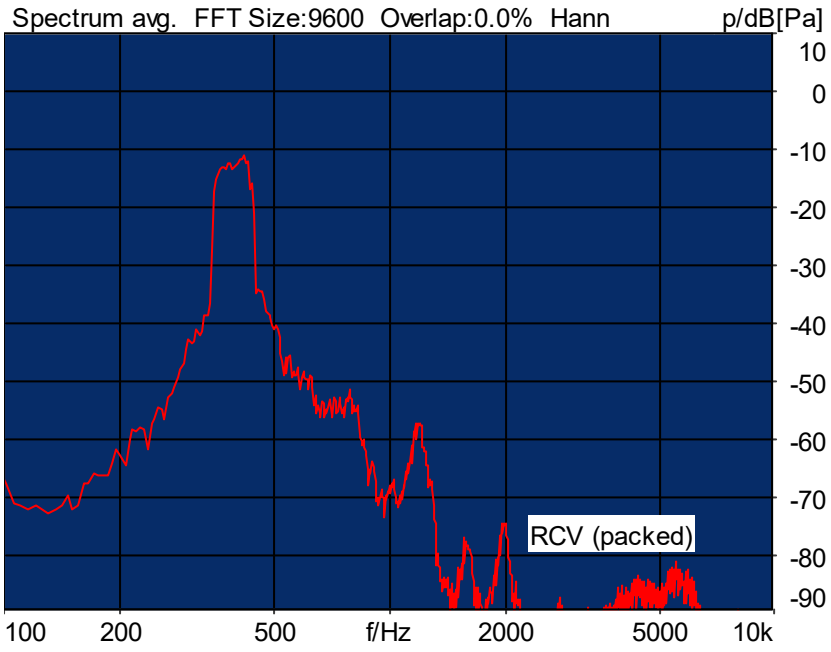
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

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



Distortion (Noise) RCV (packed): 31.29 dB (2.73%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

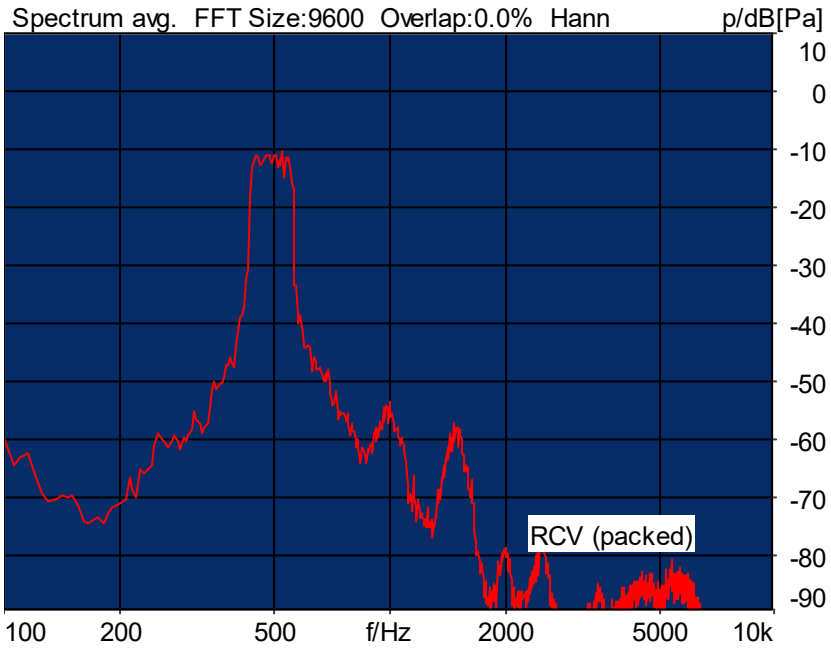
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

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



Distortion (Noise) RCV (packed): 34.83 dB (1.81%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

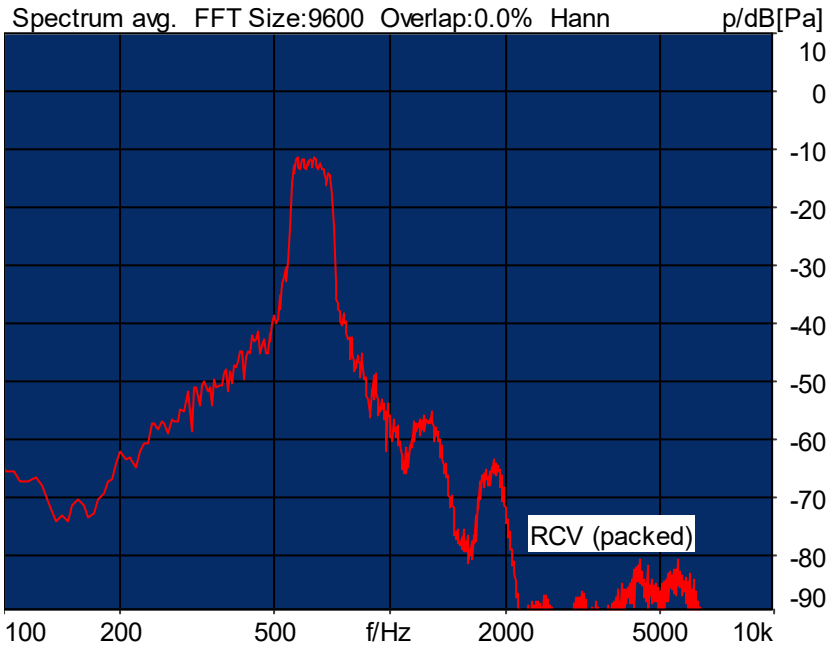
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

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



Distortion (Noise) RCV (packed): 29.61 dB (3.31%) Ok

Ok

2026/9/5 5:17 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

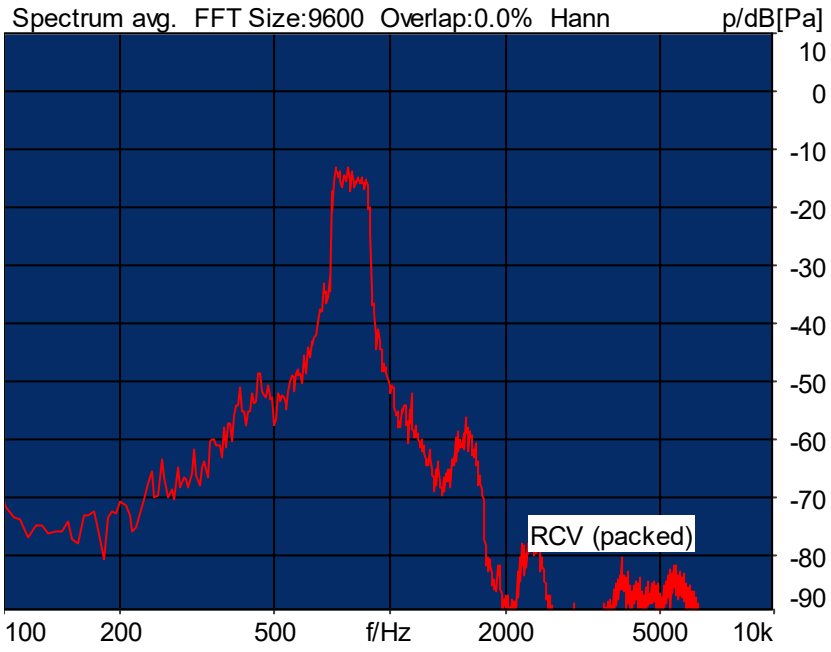
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

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



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

Ok

2026/9/5 5:17 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

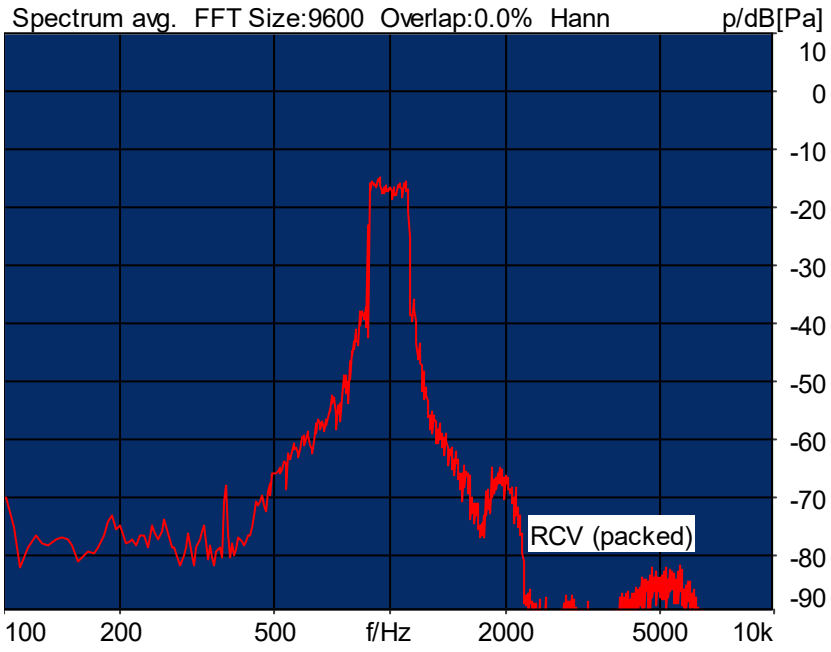
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

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



Distortion (Noise) RCV (packed): 27.97 dB (4.00%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

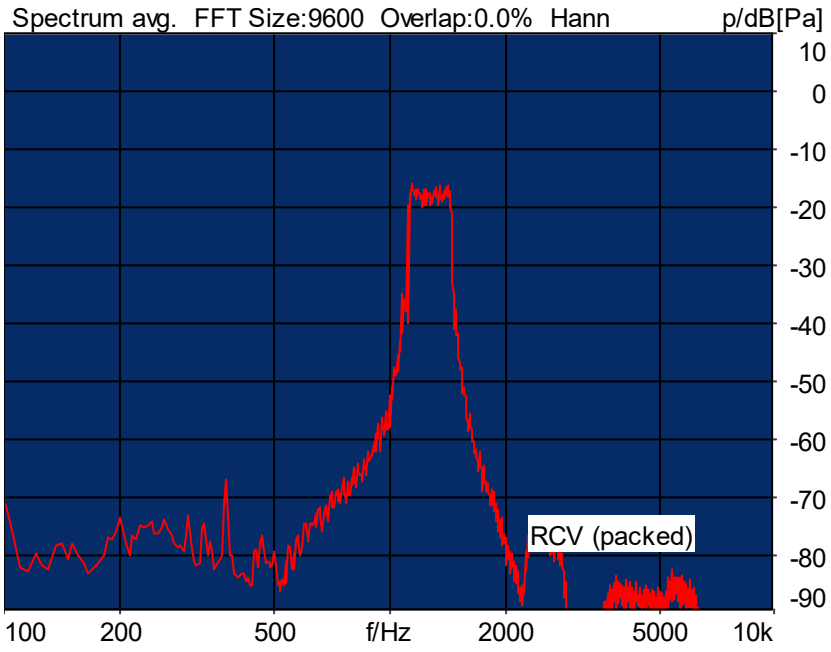
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

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



Distortion (Noise) RCV (packed): 25.63 dB (5.23%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

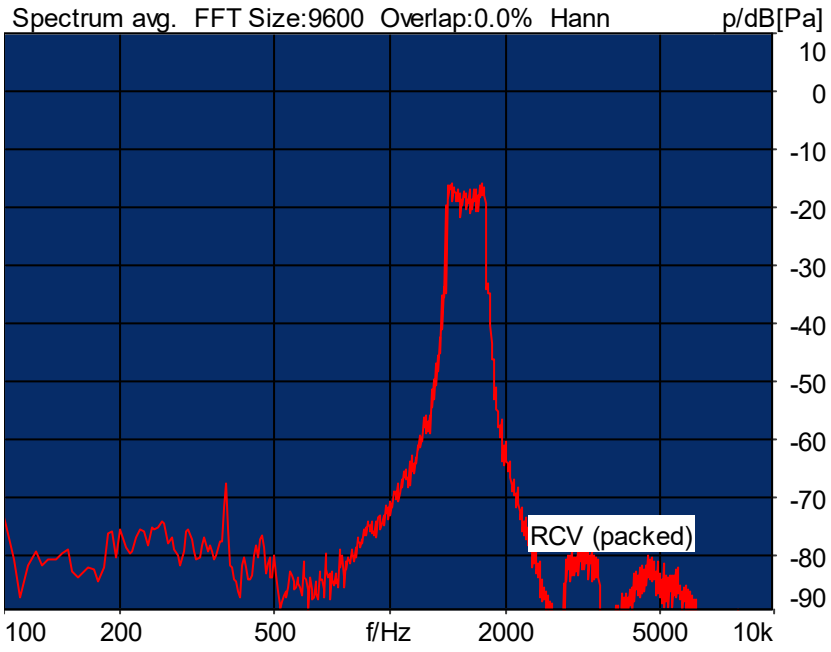
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

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



Distortion (Noise) RCV (packed): 29.45 dB (3.37%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

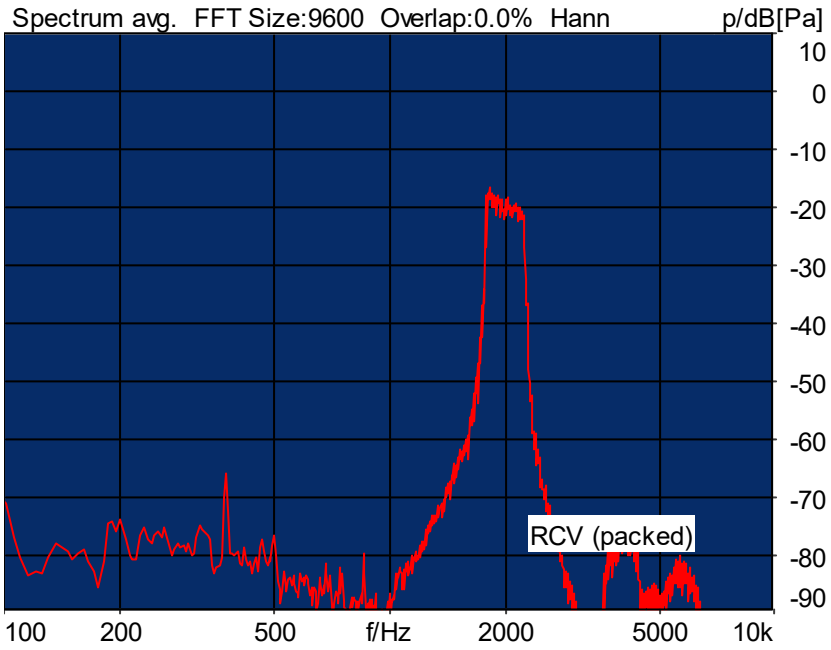
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

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



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

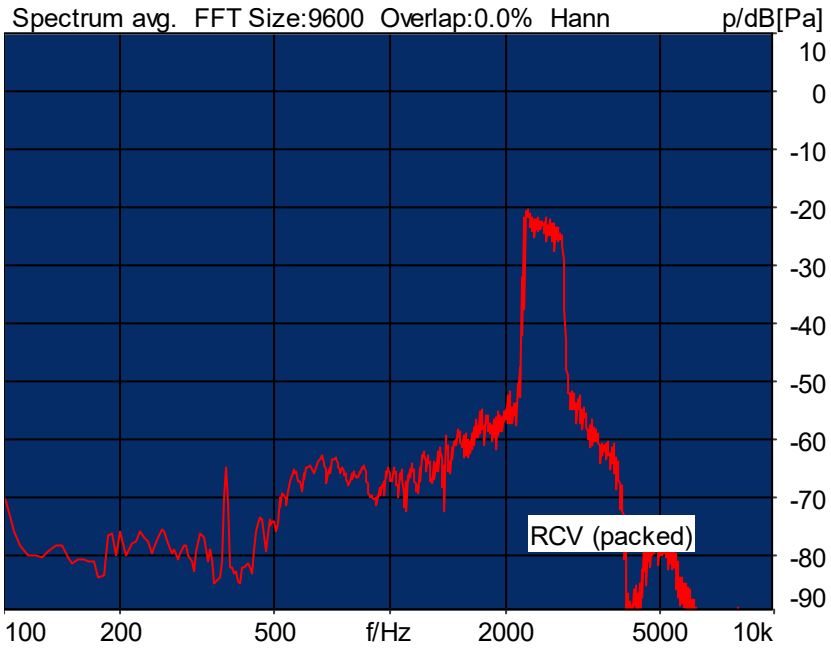
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

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



Distortion (Noise) RCV (packed): 26.03 dB (5.00%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

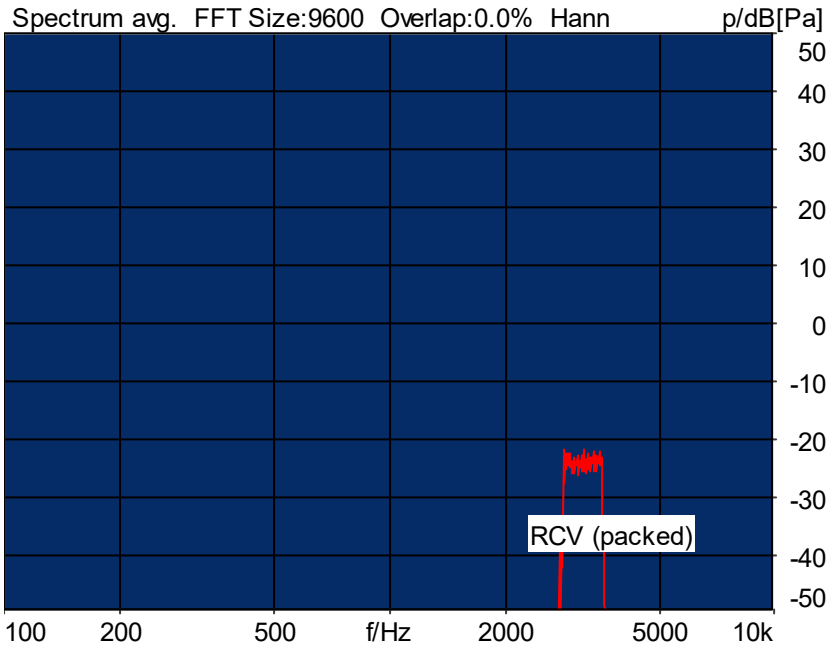
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 30.59 dB (2.96%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

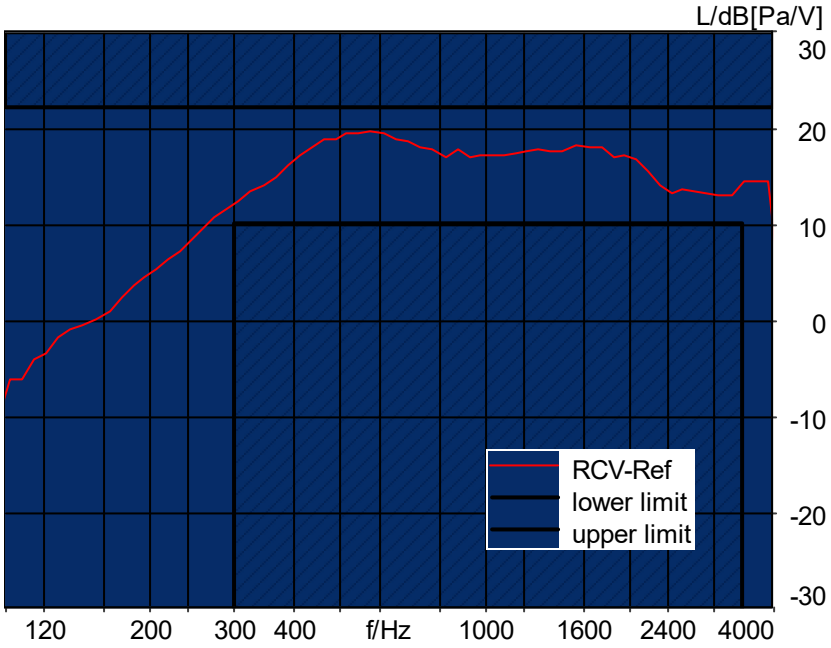
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF HANB

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



Absolute minimal distance

2.37 dB at 305.9 Hz Ok

Ok

2026/9/5 5:20 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat

Level adjustment	Channel 1	Gain	-90.00 dB
Level adjustment	Channel 2	Gain	-4.00 dB

NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter

signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	118.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(17#)

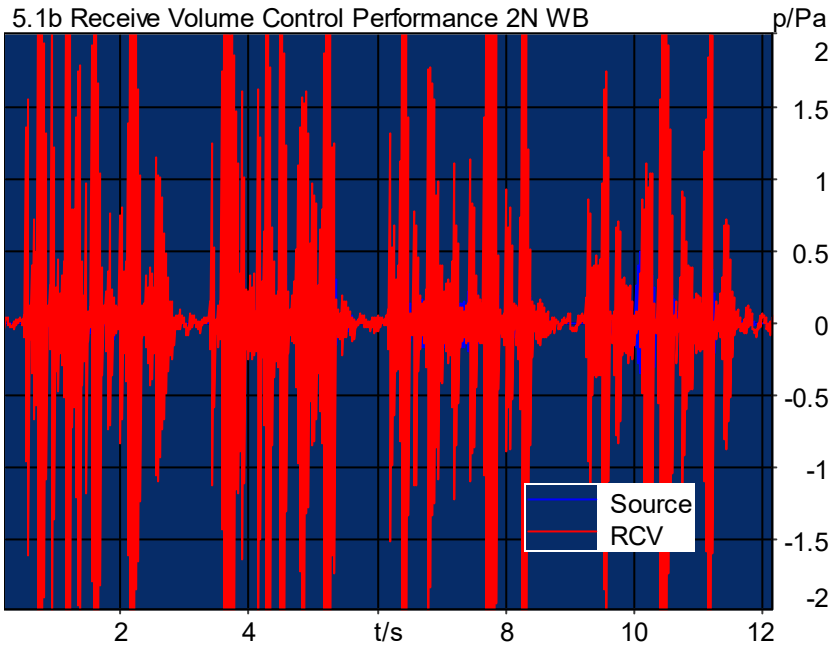
Measurement Object	Ti-CC26080336-LTEB66

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.09	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.44	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.95	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.43	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.67	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.51	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.64	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.40	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.61	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.29	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.83	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.26	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.72	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.82	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.56	Ti-CC26080336-LTEB66
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.54	Ti-CC26080336-LTEB66

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	86.09 dB[SPL]	80.43%	Ok

Ok

2026/9/12 4:57 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	141.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

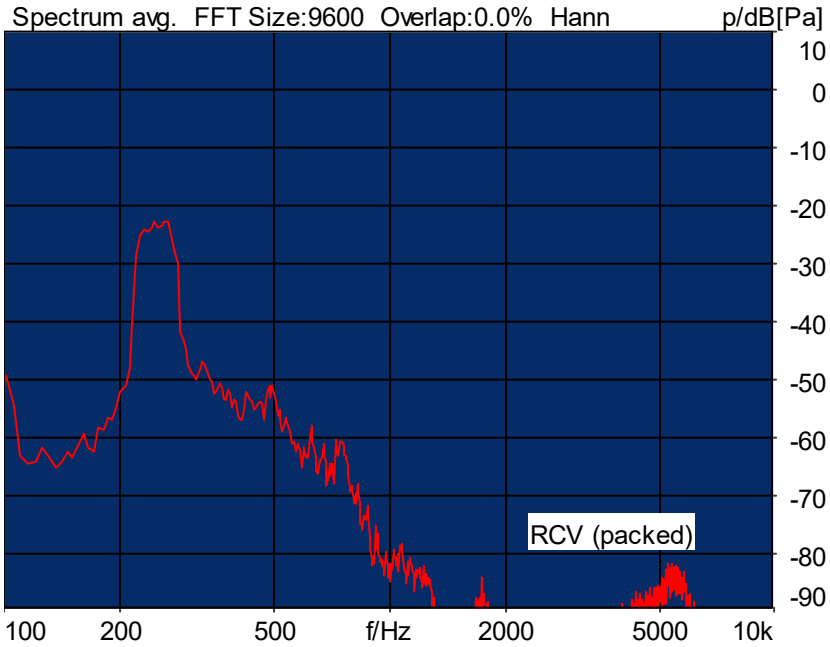
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 26.44 dB (4.77%) Ok

Ok

2026/9/7 11:52 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

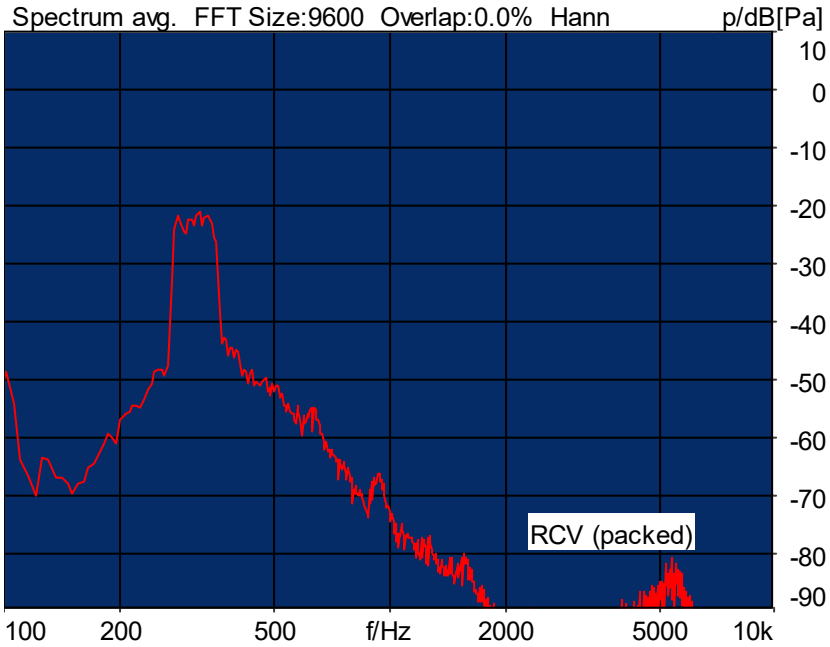
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 26.95 dB (4.49%) Ok

Ok

2026/9/7 11:53 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

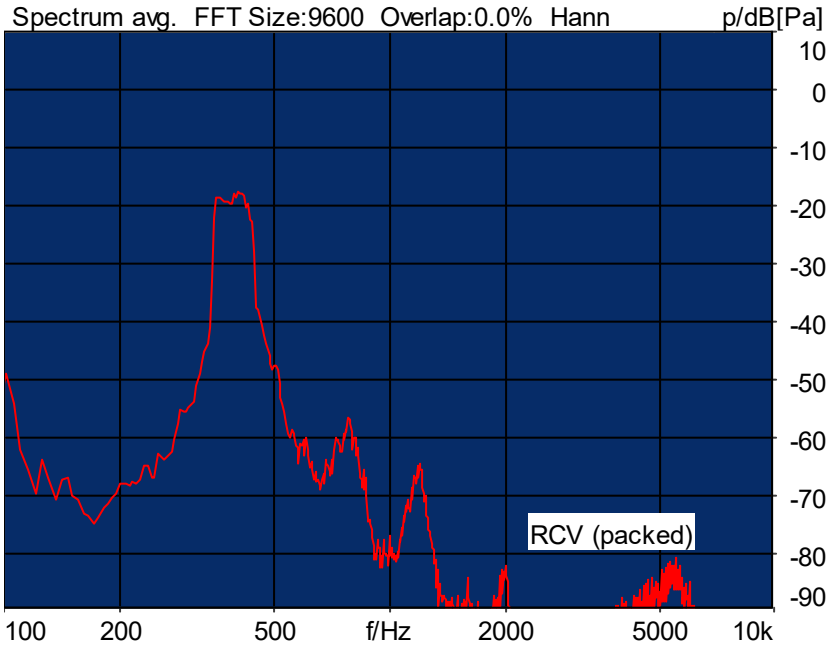
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



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

Ok

2026/9/7 11:53 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

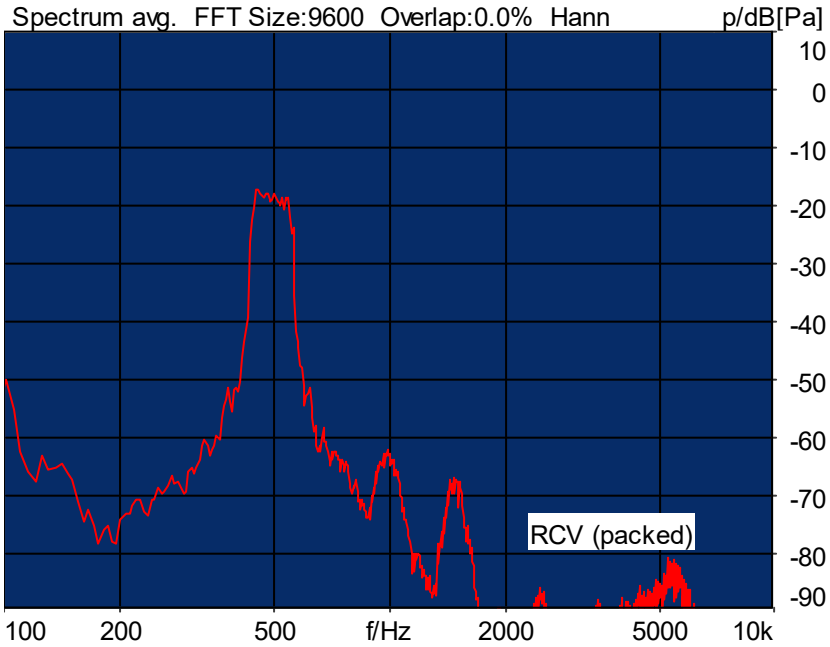
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.67 dB (1.47%) Ok

Ok

2026/9/7 11:53 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

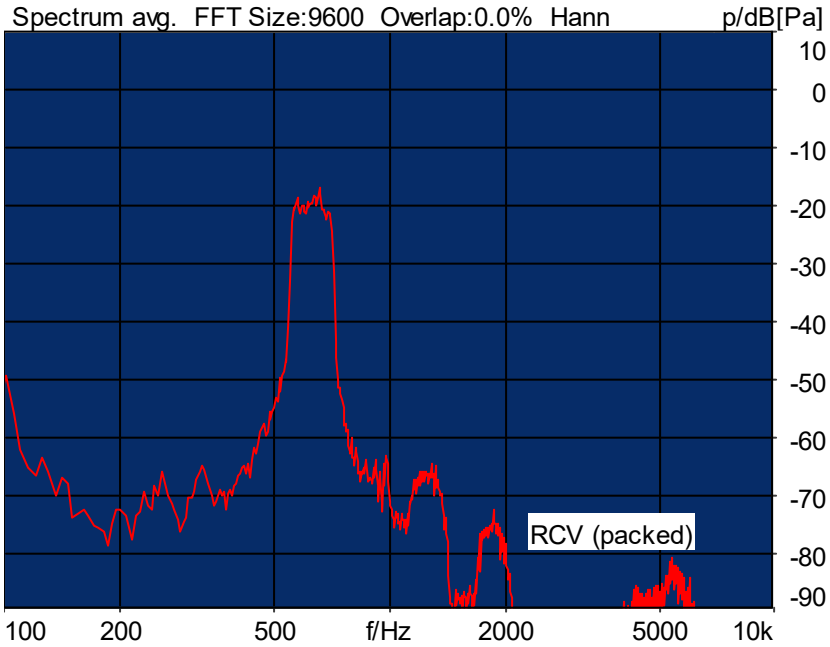
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 37.51 dB (1.33%) Ok

Ok

2026/9/7 11:54 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

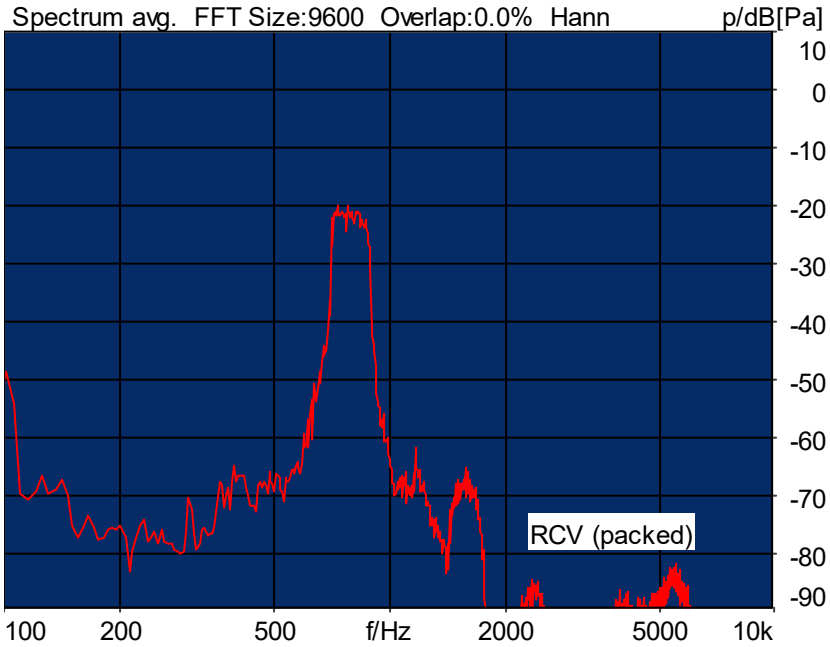
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.64 dB (2.08%) Ok

Ok

2026/9/7 11:54 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

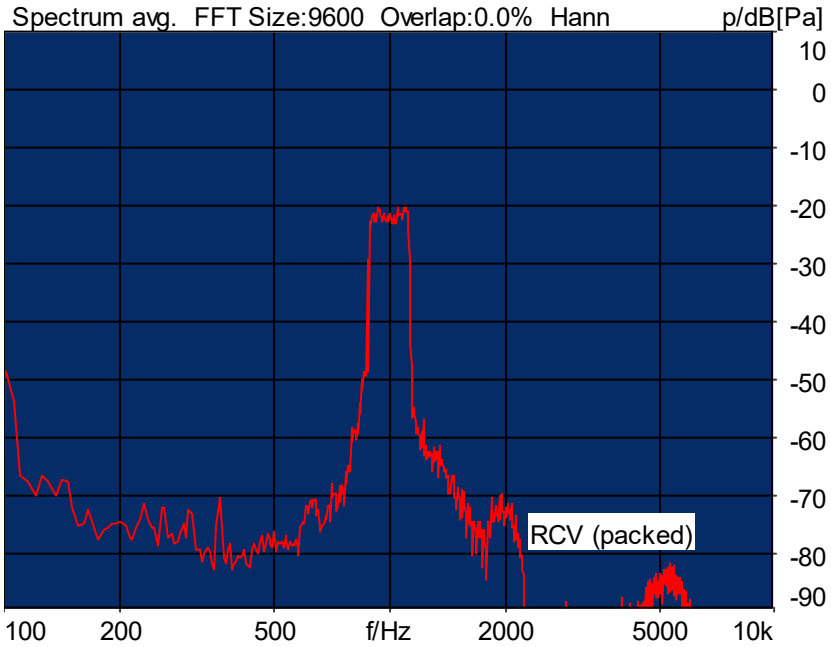
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 36.40 dB (1.51%) Ok

Ok

2026/9/7 11:55 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

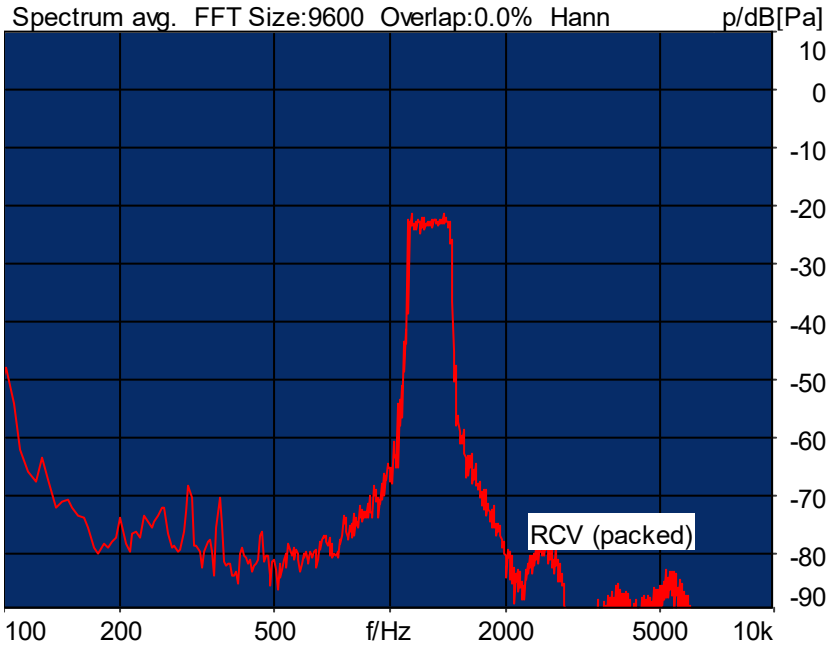
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 28.61 dB (3.71%) Ok

Ok

2026/9/7 11:55 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

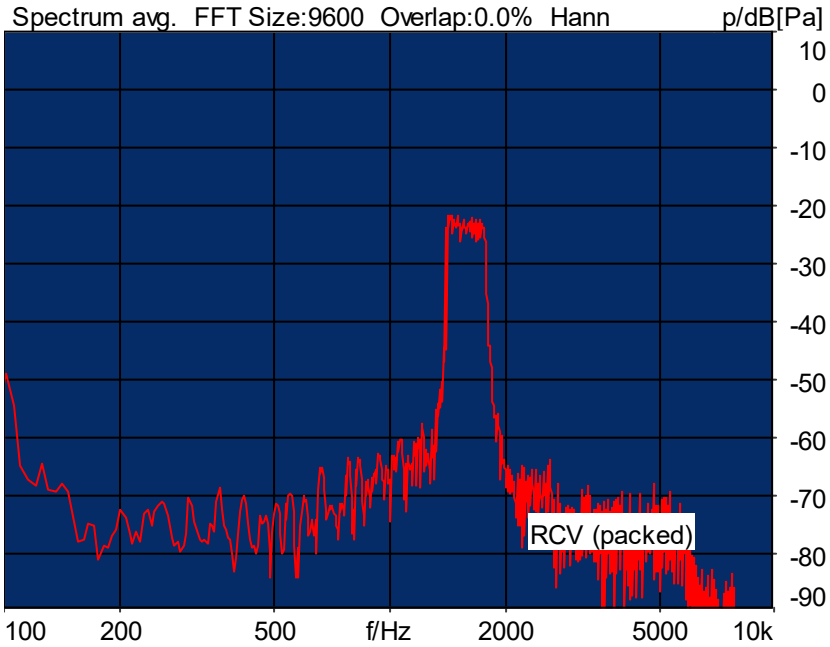
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 30.29 dB (3.06%) Ok

Ok

2026/9/7 11:55 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

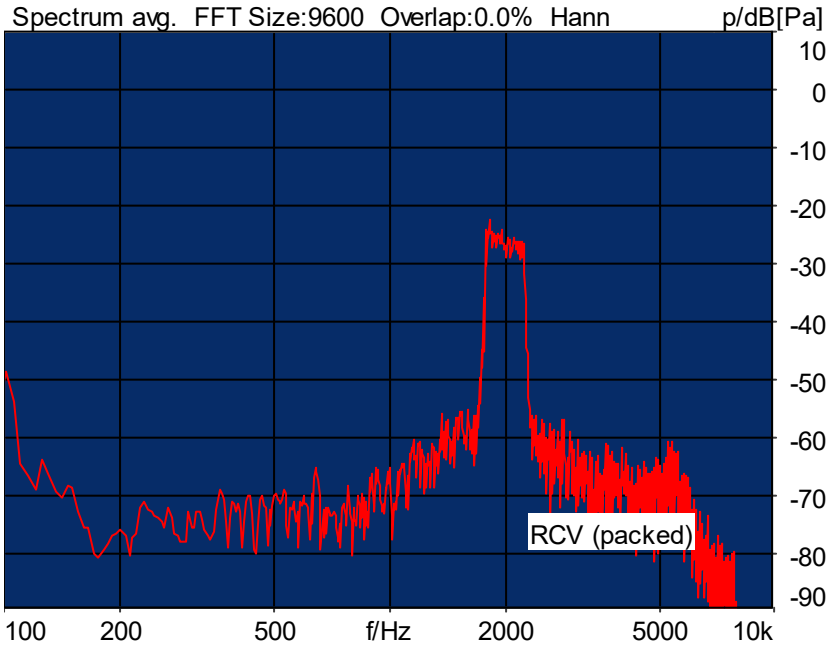
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 25.83 dB (5.11%) Ok

Ok

2026/9/7 11:56 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

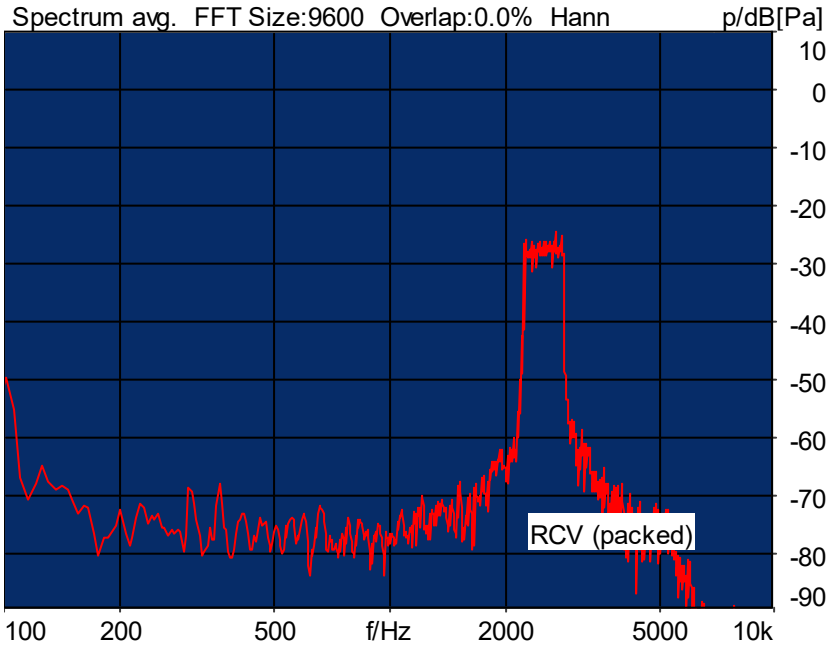
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 28.26 dB (3.86%) Ok

Ok

2026/9/7 11:56 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

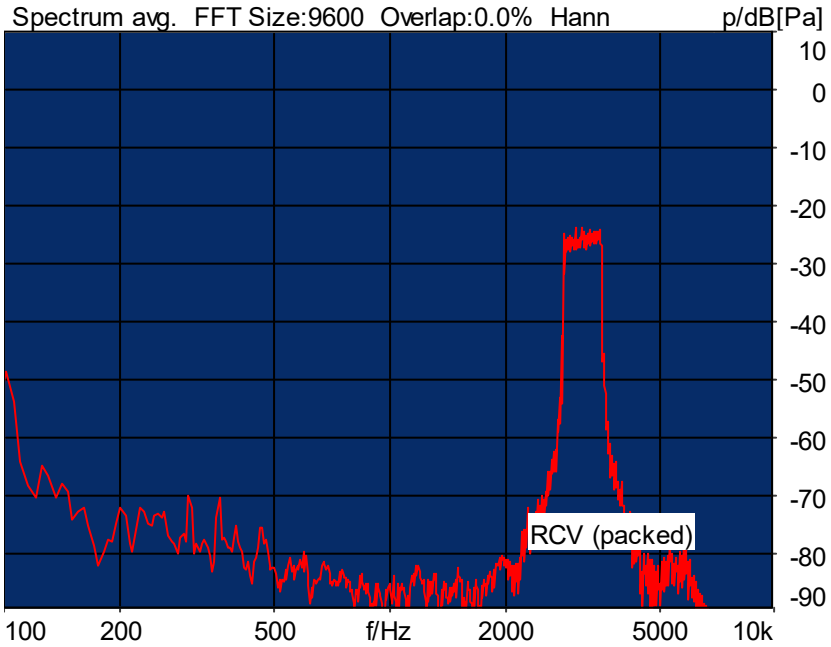
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.72 dB (2.59%) Ok

Ok

2026/9/7 11:56 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

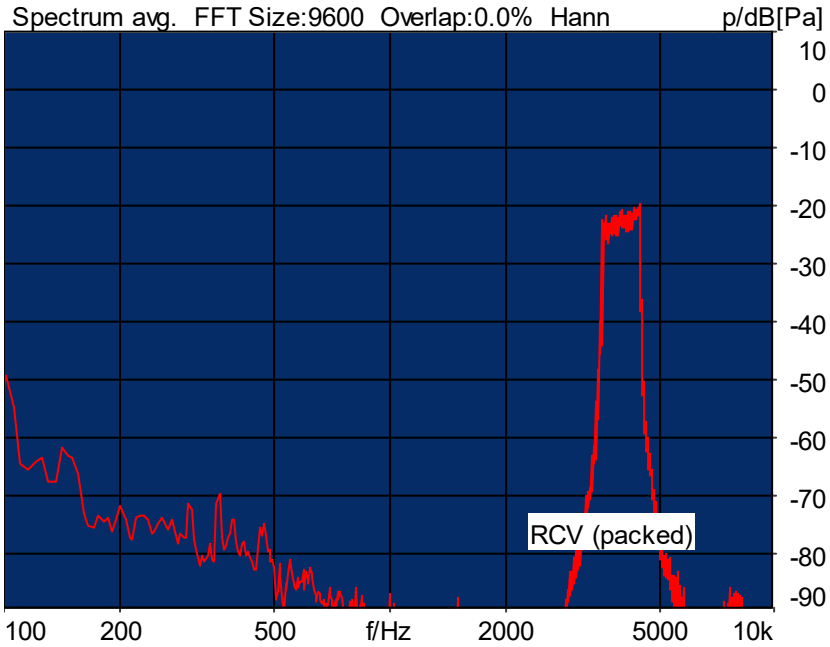
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.82 dB (2.56%) Ok

Ok

2026/9/7 11:57 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

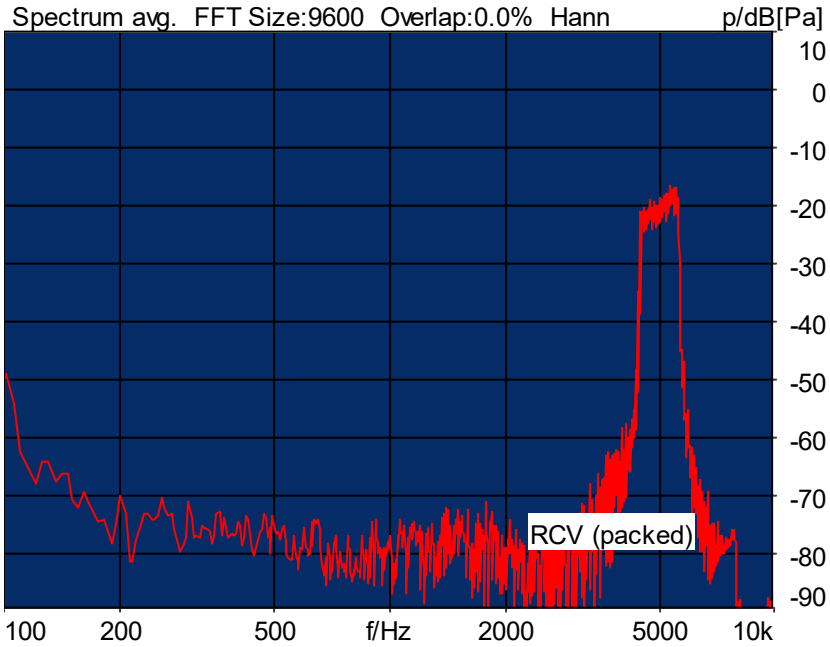
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 32.56 dB (2.36%) Ok

Ok

2026/9/7 11:57 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

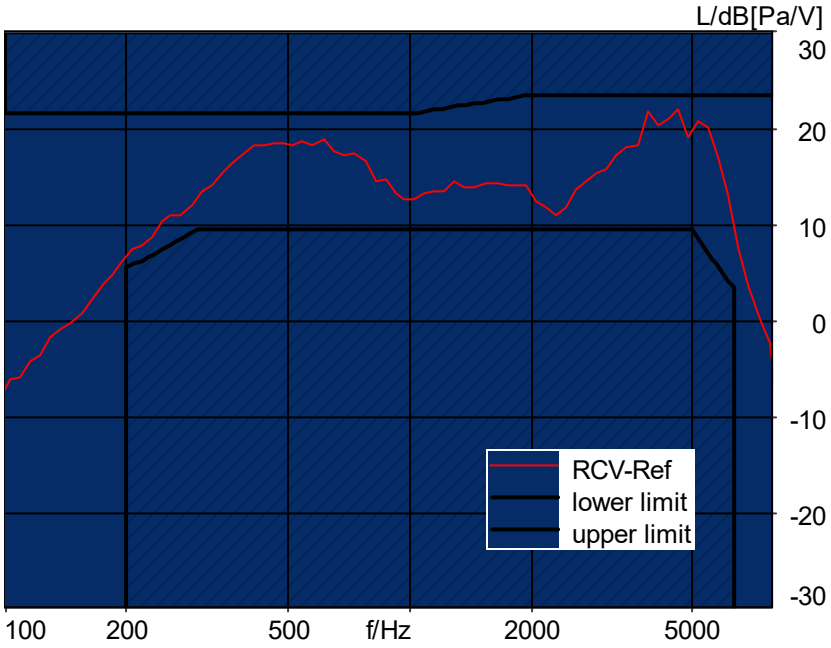
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF

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



Absolute minimal distance

1.54 dB at 4620.1 Hz Ok

Ok

2026/9/8 19:45 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(18#)

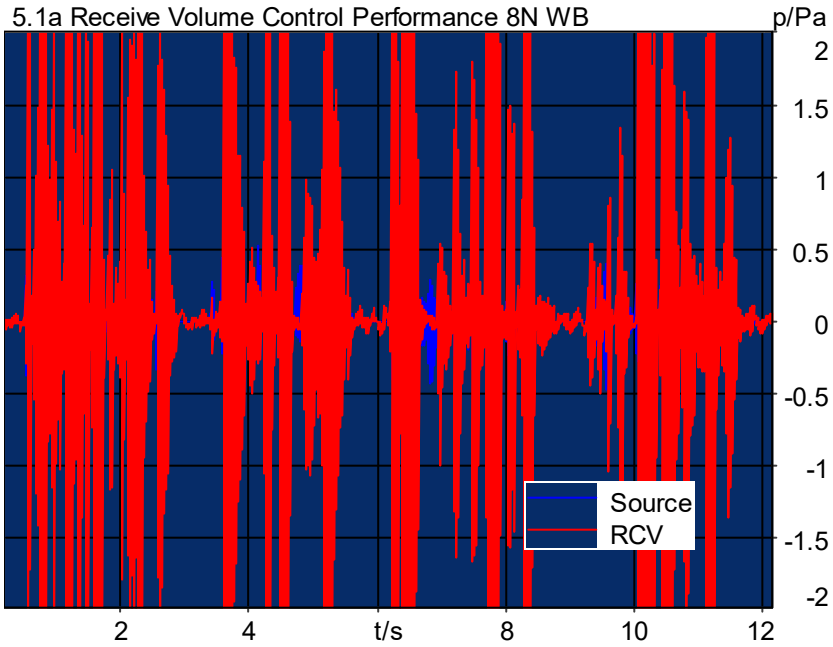
Measurement Object	Ti-CC26080336-LTEB66

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.50	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.60	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.31	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.90	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.64	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.78	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.06	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.75	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.69	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.39	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.73	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.56	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.53	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.62	Ti-CC26080336-LTEB66
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.30	Ti-CC26080336-LTEB66
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	1.87	Ti-CC26080336-LTEB66

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-13.2



Channel	Speech level	Activity	
RCV	90.50 dB[SPL]	76.41%	Ok

Ok

2026/9/12 4:56 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	121.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

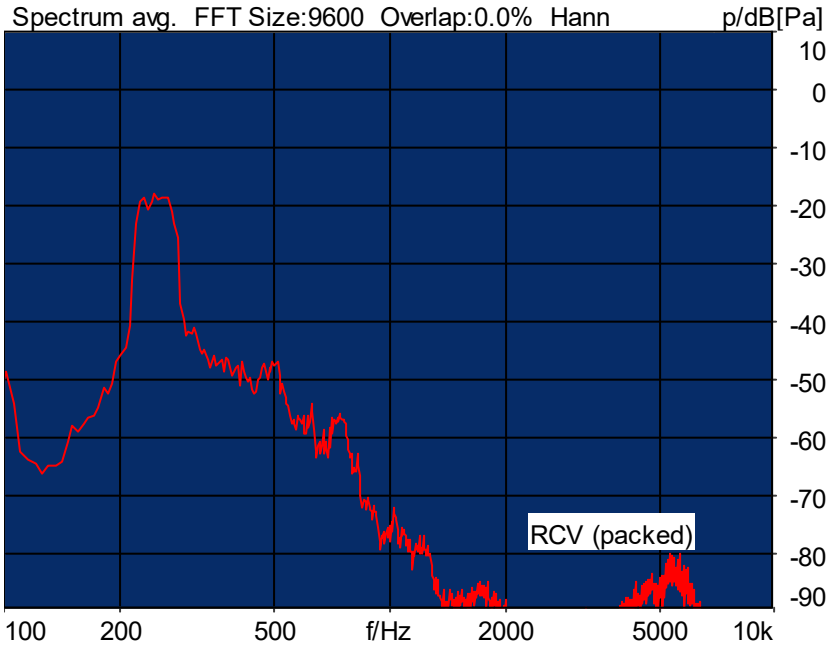
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 26.60 dB (4.68%) Ok

Ok

2026/9/7 12:09 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_250hz_sr20dbm0_v02.dat.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	190.0 Hz	Stimulus max.	315.0 Hz
Analysis min.	20.0 Hz	Analysis max.	185.0 Hz
Analysis (2) min.	320.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

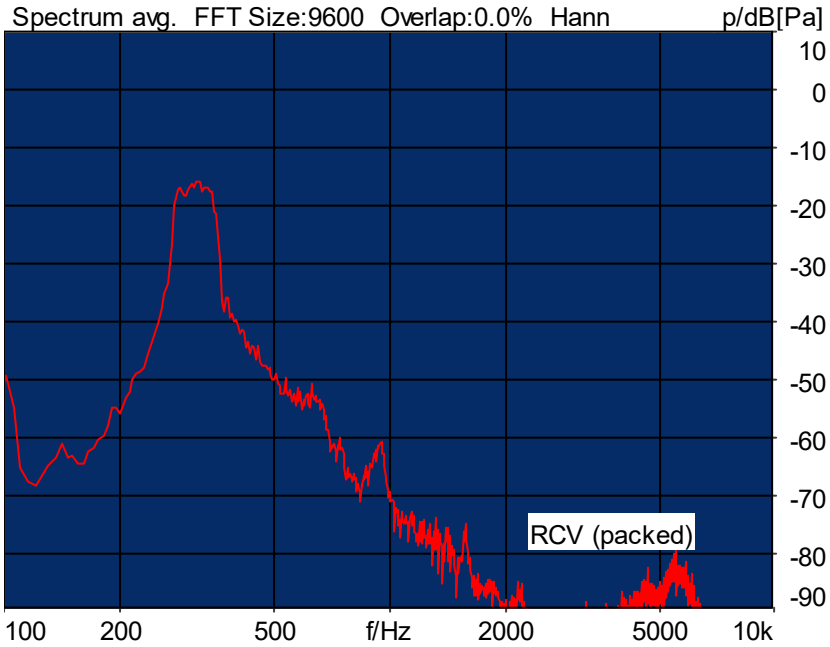
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 28.31 dB (3.84%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_315hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	245.0 Hz	Stimulus max.	390.0 Hz
Analysis min.	20.0 Hz	Analysis max.	240.0 Hz
Analysis (2) min.	395.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

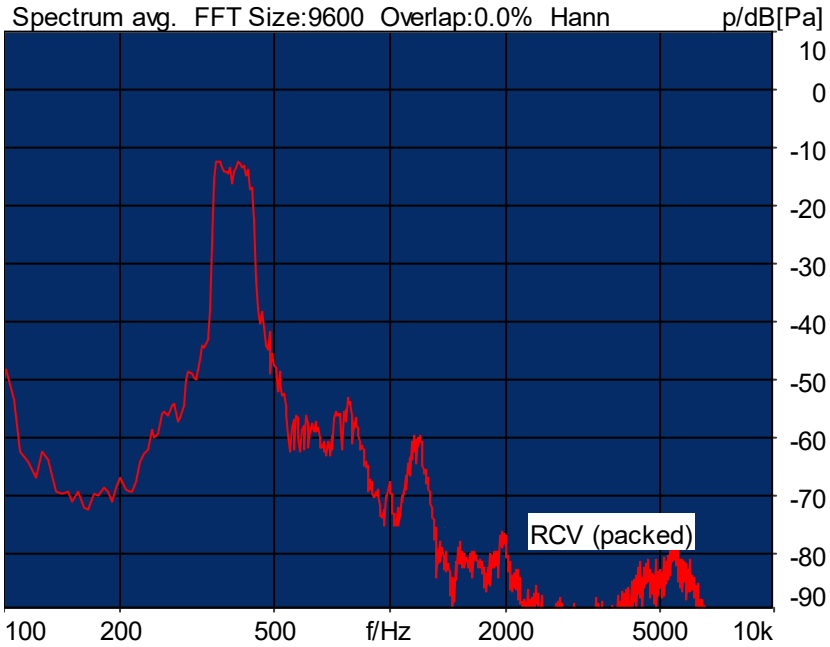
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 35.90 dB (1.60%) Ok

Ok

2026/9/7 12:09 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

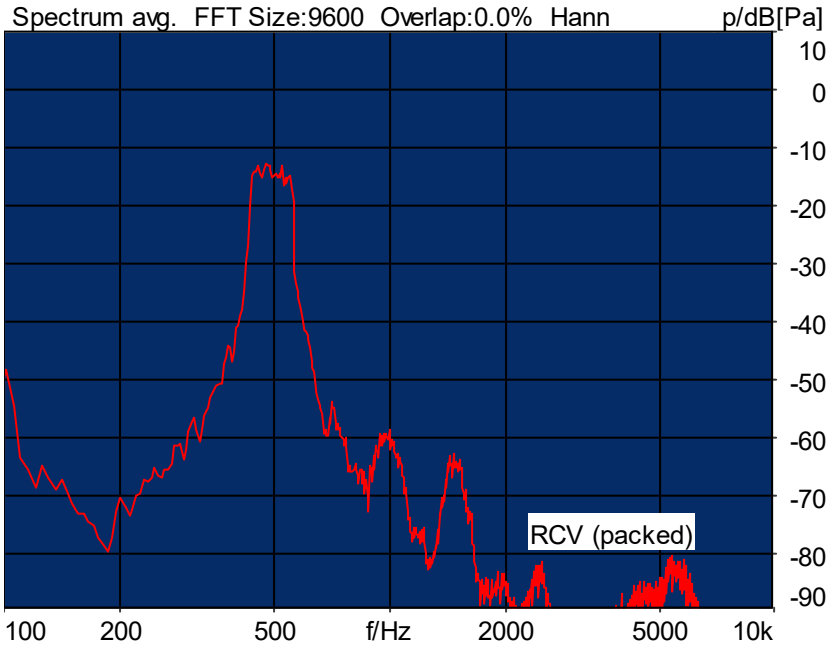
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N
EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.64 dB (2.08%) Ok

Ok

2026/9/7 12:10 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

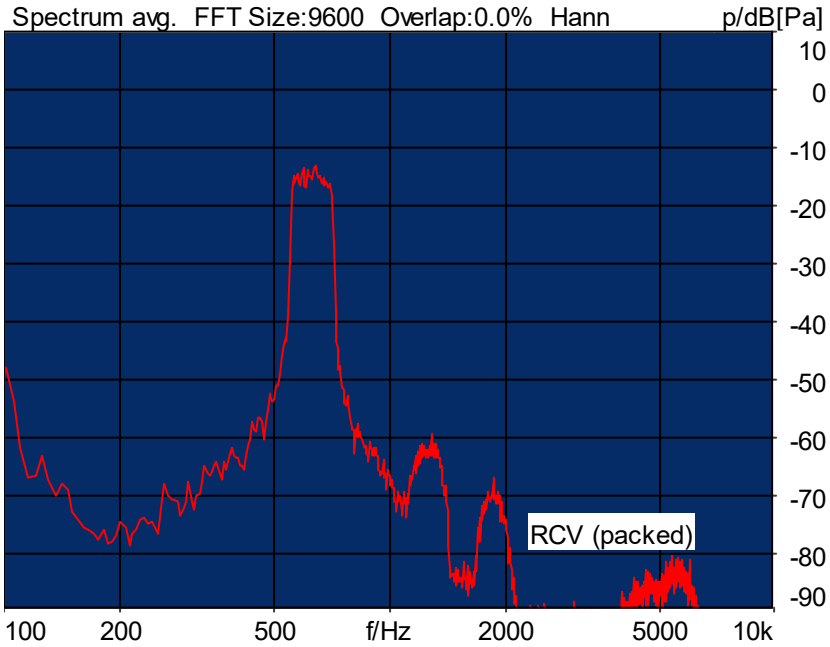
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 38.78 dB (1.15%) Ok

Ok

2026/9/7 12:10 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

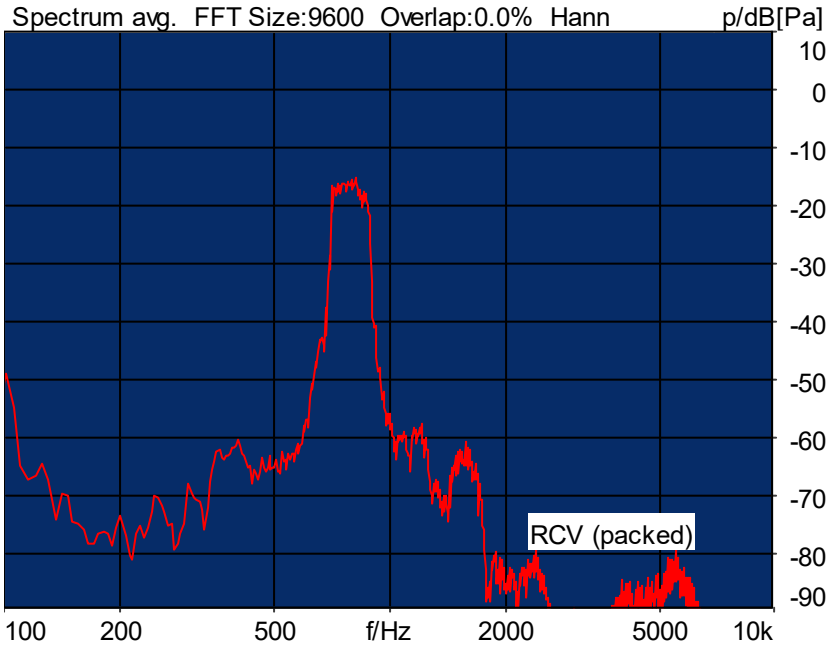
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 33.06 dB (2.22%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

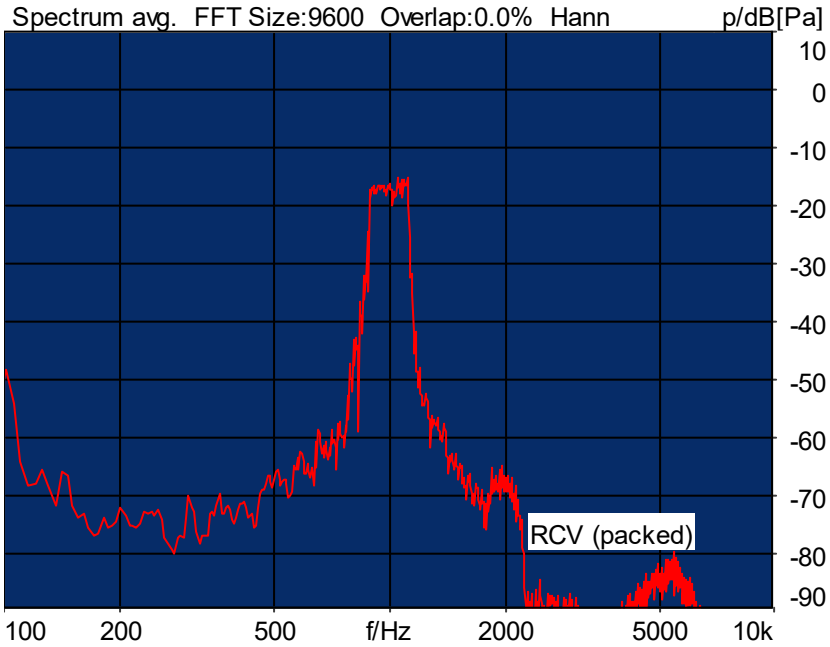
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



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

Ok

2026/9/7 12:11 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

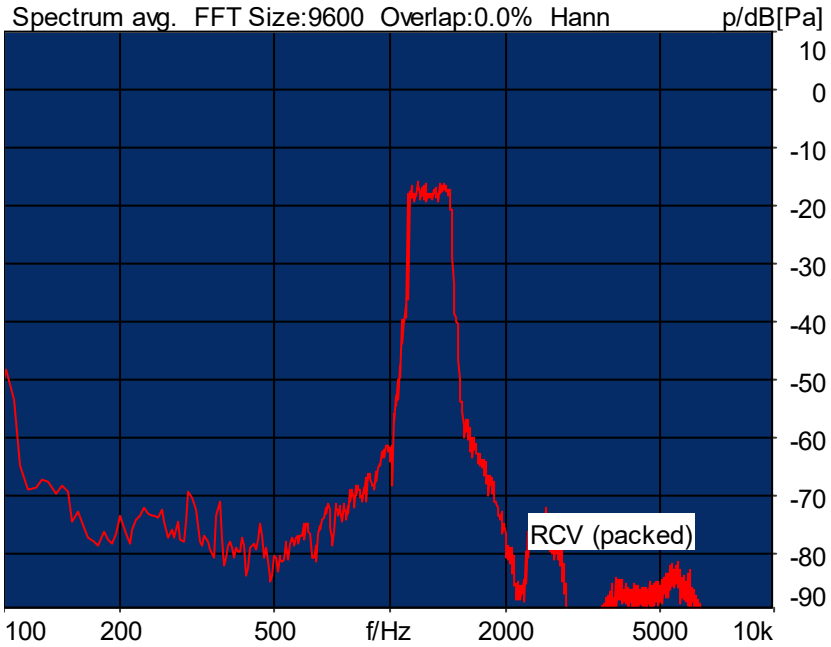
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 24.69 dB (5.83%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

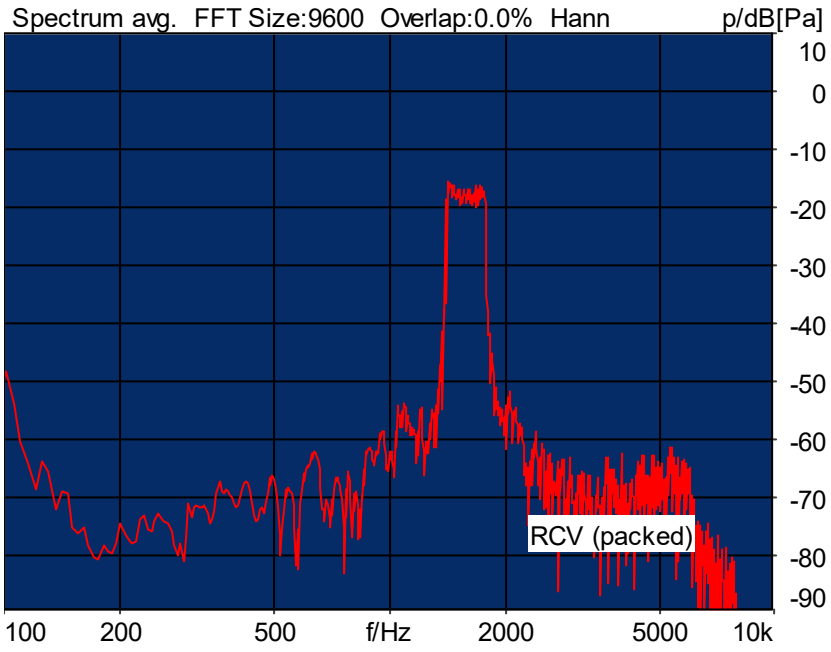
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz WB

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



Distortion (Noise) RCV (packed): 31.39 dB (2.70%) Ok

Ok

2026/9/7 12:12 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %
Window function	Hann	Smooth	Off
dB weighting	A Weighting		

Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

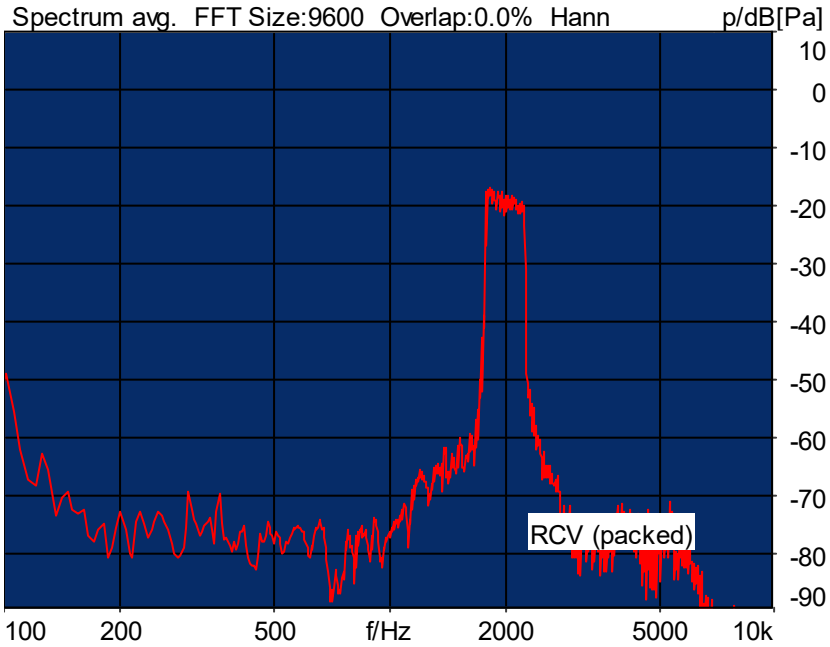
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 35.73 dB (1.64%) Ok

Ok

2026/9/7 12:12 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

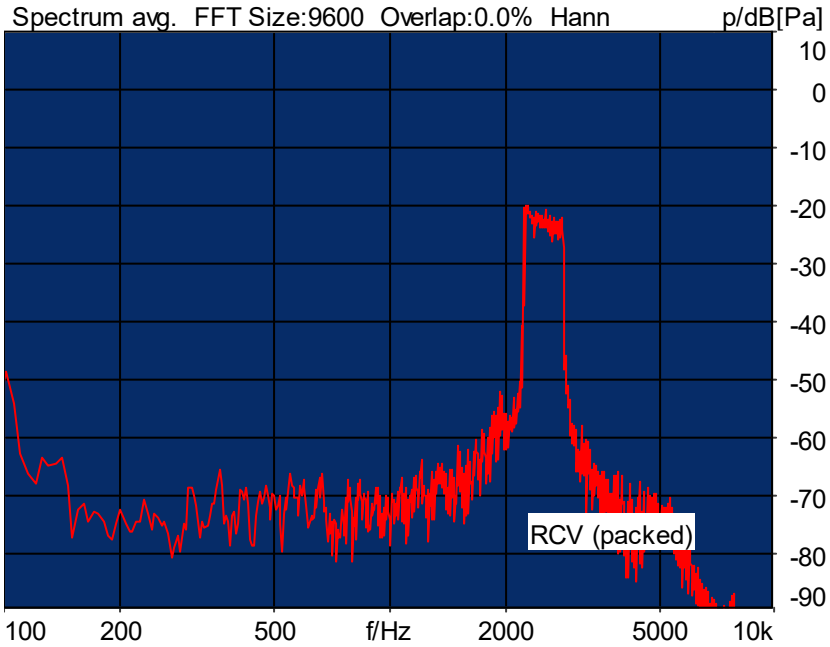
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 30.56 dB (2.97%) Ok

Ok

2026/9/7 12:13 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

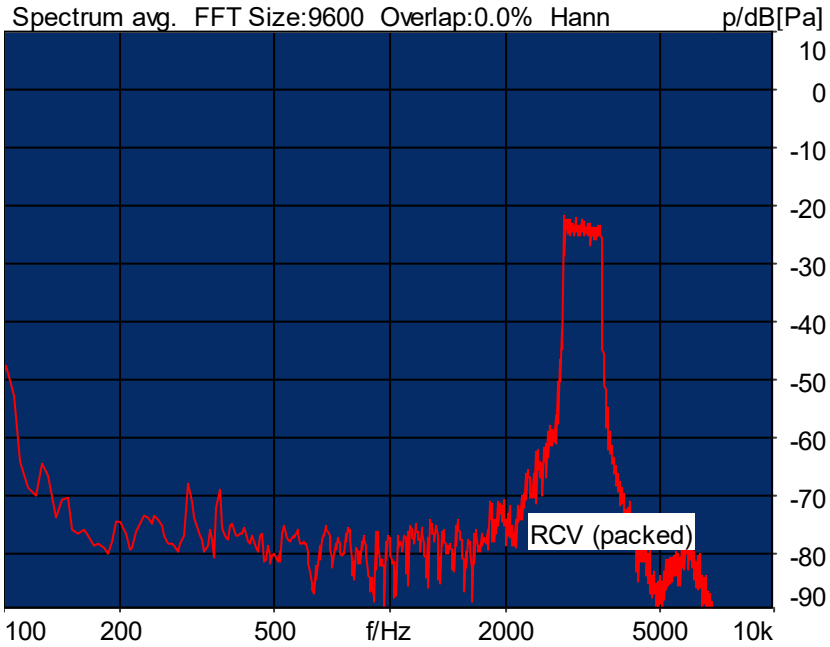
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.53 dB (2.65%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

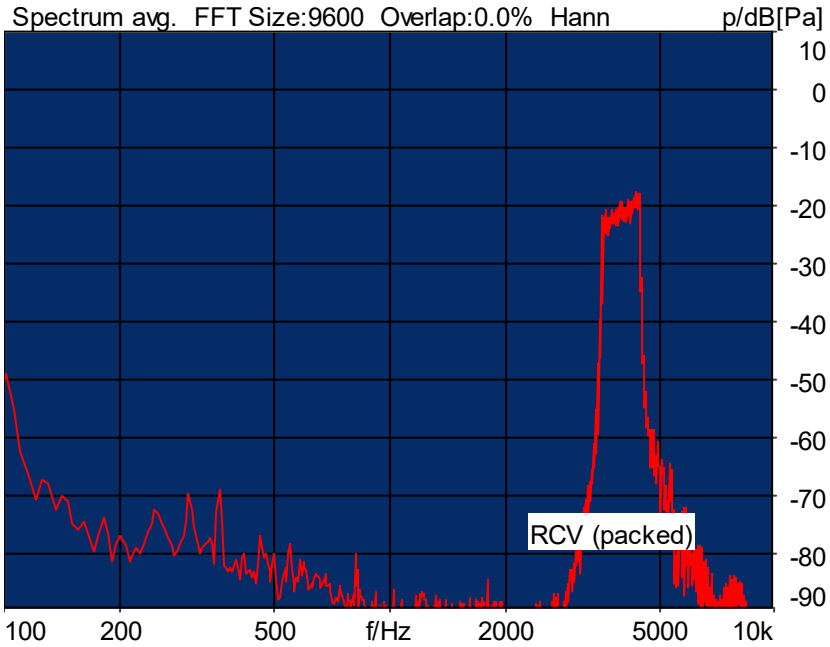
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 31.62 dB (2.62%) Ok

Ok

2026/9/7 12:13 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_4000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	3515.0 Hz	Stimulus max.	4500.0 Hz
Analysis min.	20.0 Hz	Analysis max.	3510.0 Hz
Analysis (2) min.	4505.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

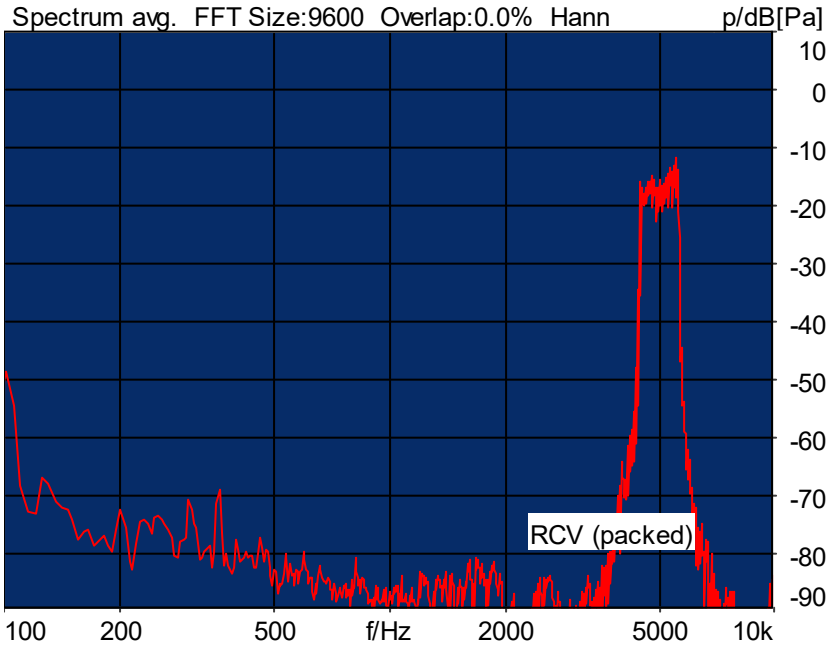
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N EVS-WB-13.2



Distortion (Noise) RCV (packed): 34.30 dB (1.93%) Ok

Ok

2026/9/7 12:14 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_5000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	4430.0 Hz	Stimulus max.	5660.0 Hz
Analysis min.	20.0 Hz	Analysis max.	4425.0 Hz
Analysis (2) min.	5665.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

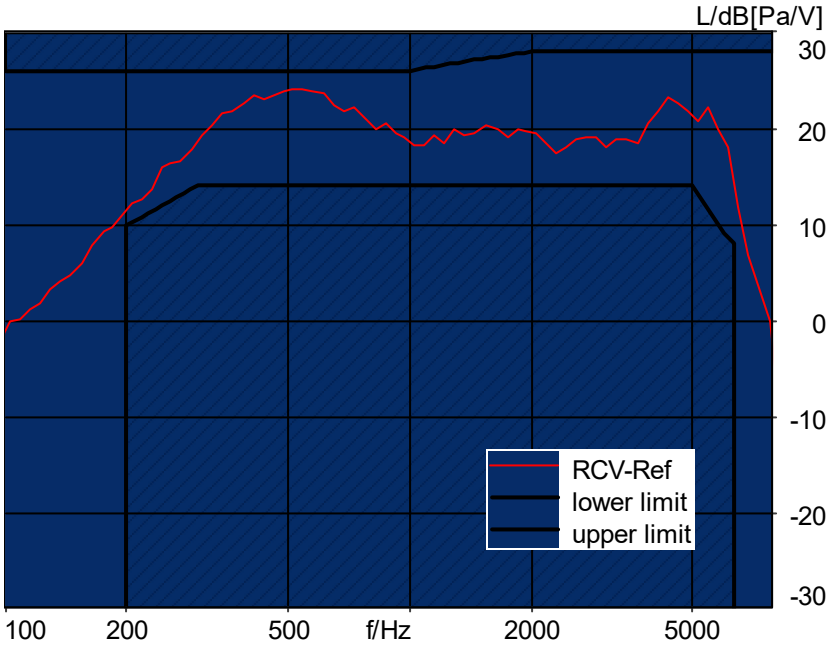
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF

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



Absolute minimal distance

1.87 dB at 544.4 Hz Ok

Ok

2026/9/8 19:47 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_wb_r20_v01.dat
Level adjustment Channel 1 Gain -90.00 dB
WIDEBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -22,2 dBV, margin 15.9 dB +
Pause till end of file
Signal level (ch2): -22,2 dBV Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.
0.8 s Pause added at the and of the file.
filtered with 8.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hawb.fft		
Tol. scheme file	521_rcv_frq_man_hawb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	8000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	121.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(19#)

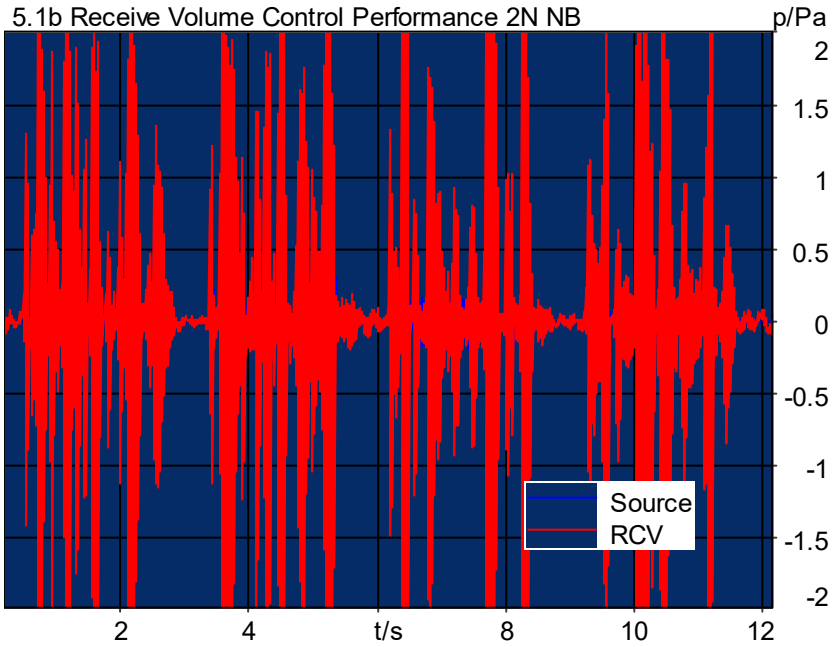
Measurement Object	Ti-CC26080336-LTEB71

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.41	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.39	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.64	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.91	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.20	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.27	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.70	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.12	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.95	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.07	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.78	Ti-CC26080336-LTEB71
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	2.43	Ti-CC26080336-LTEB71

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Channel	Speech level	Activity	
RCV	86.41 dB[SPL]	80.88%	Ok

Ok

2026/9/12 4:59 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	122.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

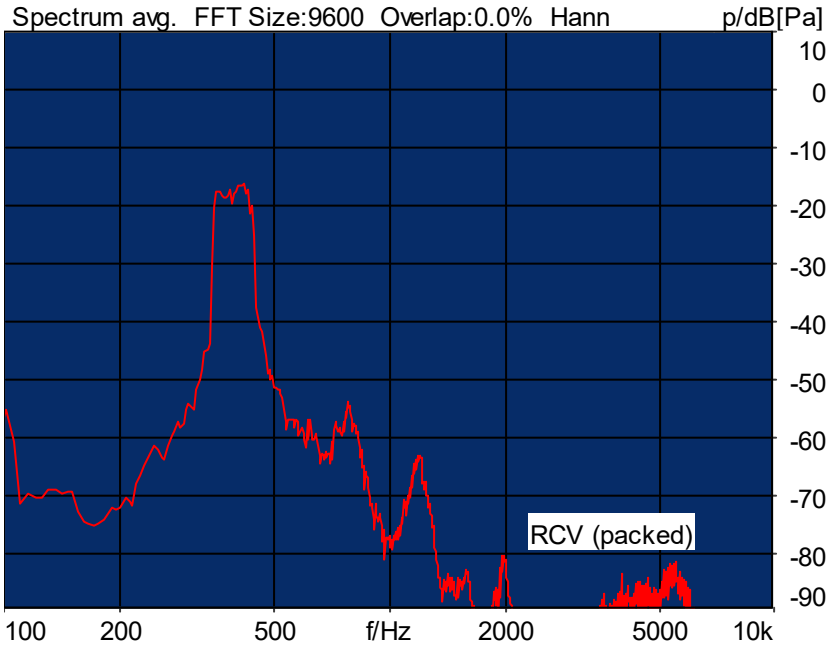
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 34.39 dB (1.91%) Ok

Ok

2026/9/8 17:37 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

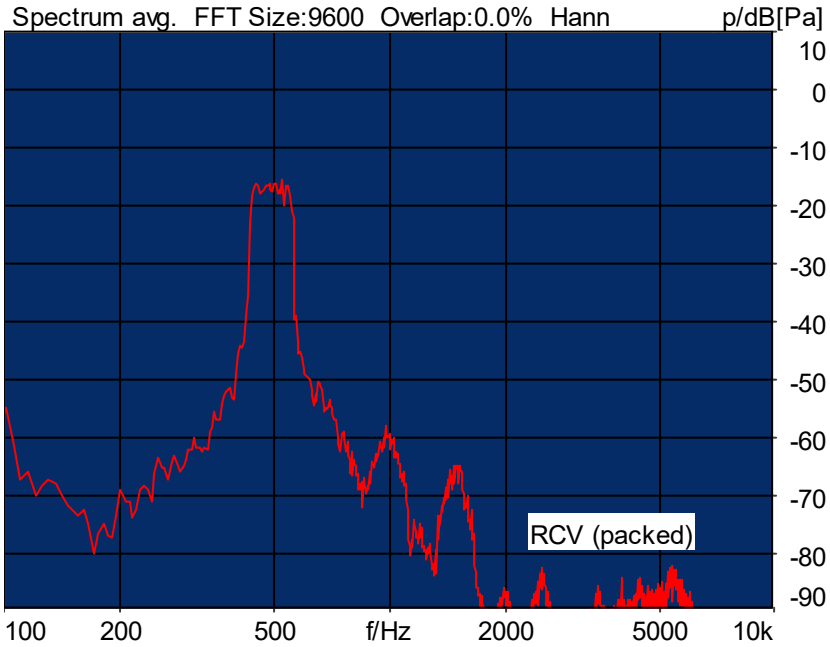
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 34.64 dB (1.85%) Ok

Ok

2026/9/8 17:37 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

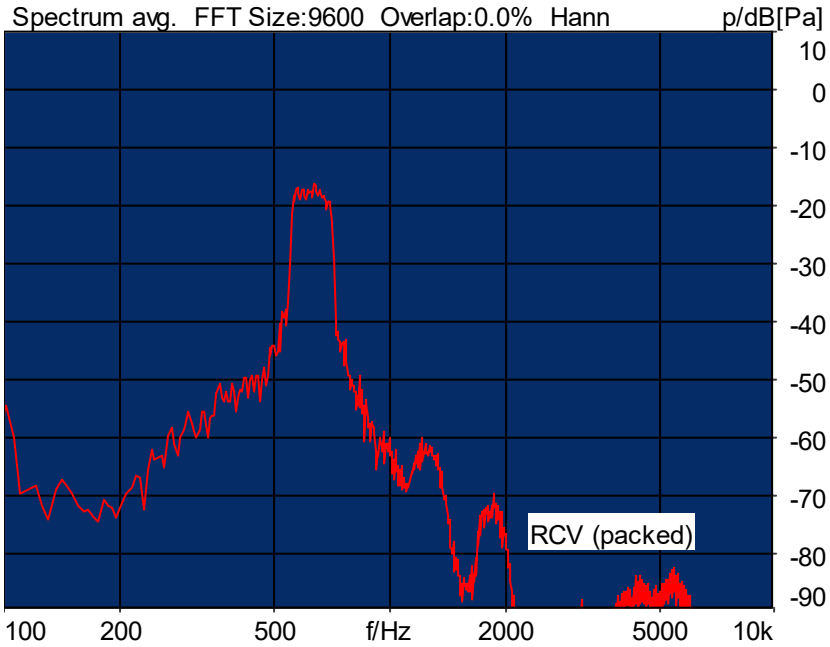
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 29.91 dB (3.19%) Ok

Ok

2026/9/8 17:37 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

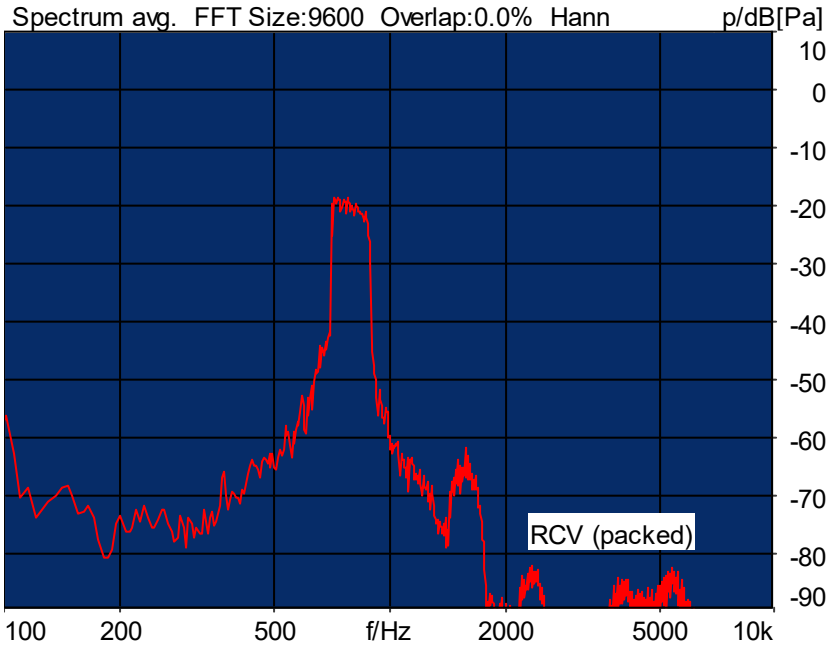
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 32.20 dB (2.46%) Ok

Ok

2026/9/8 17:38 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

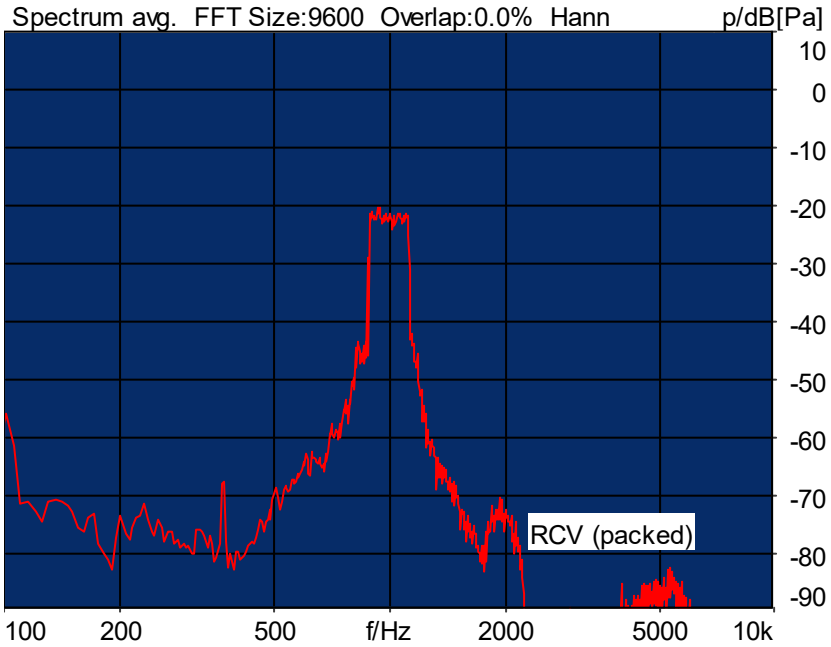
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



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

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

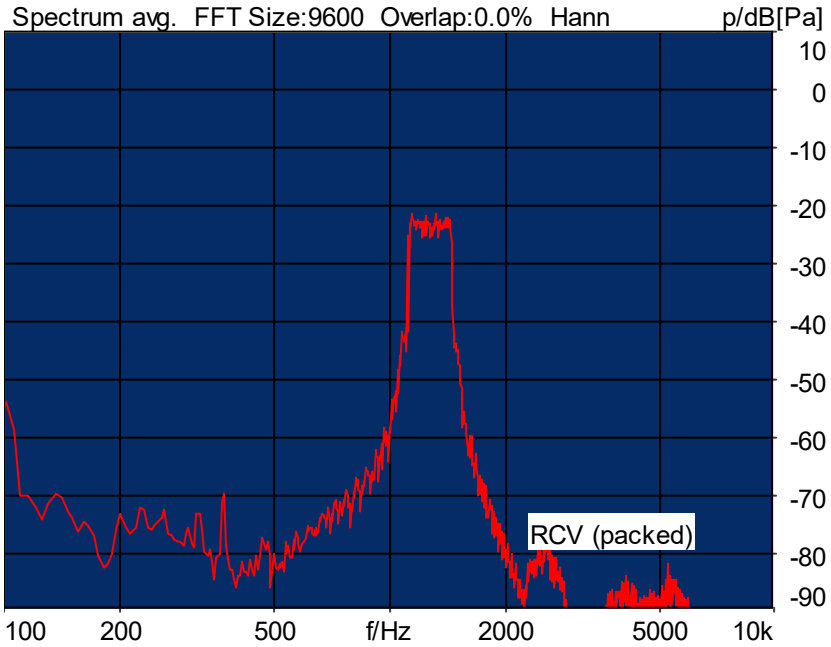
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 24.70 dB (5.82%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

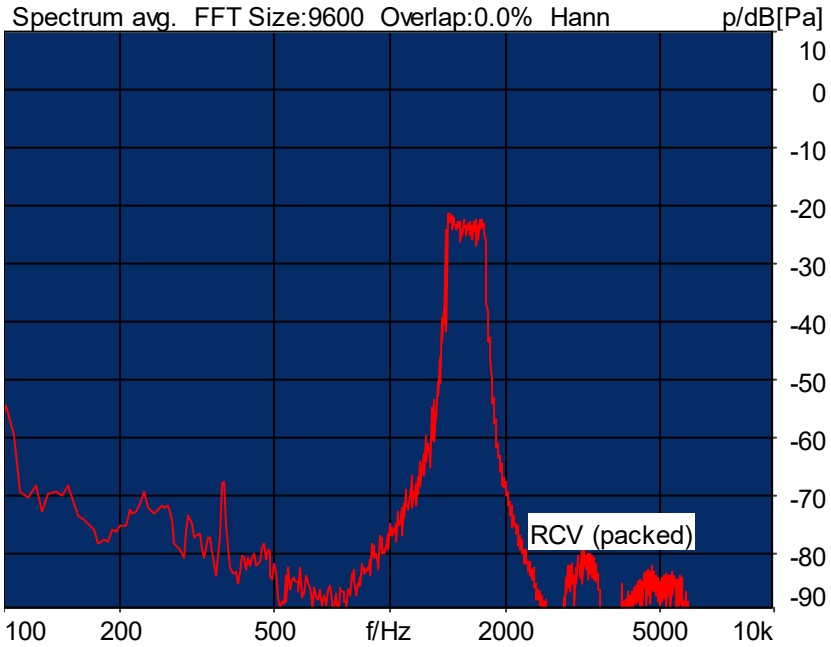
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 29.12 dB (3.50%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

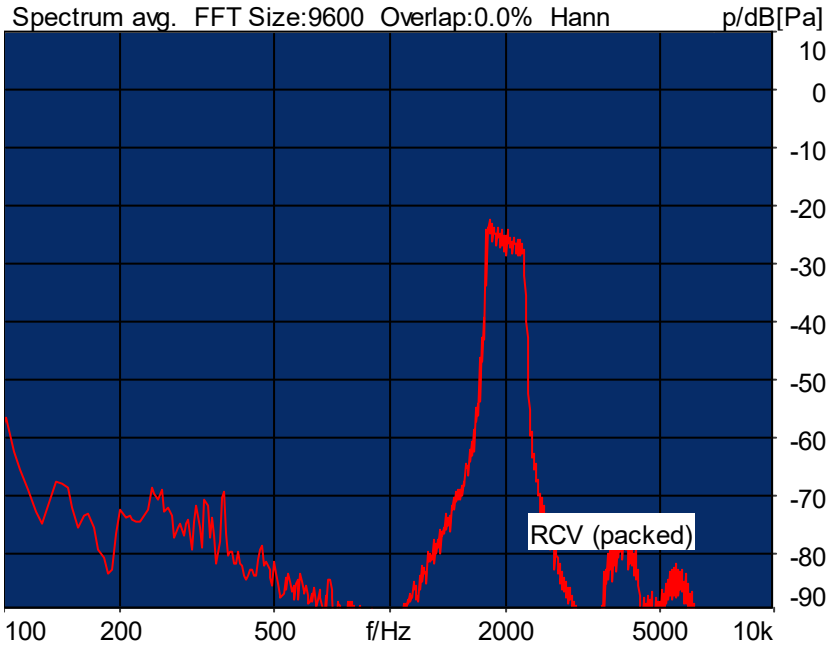
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.95 dB (3.57%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

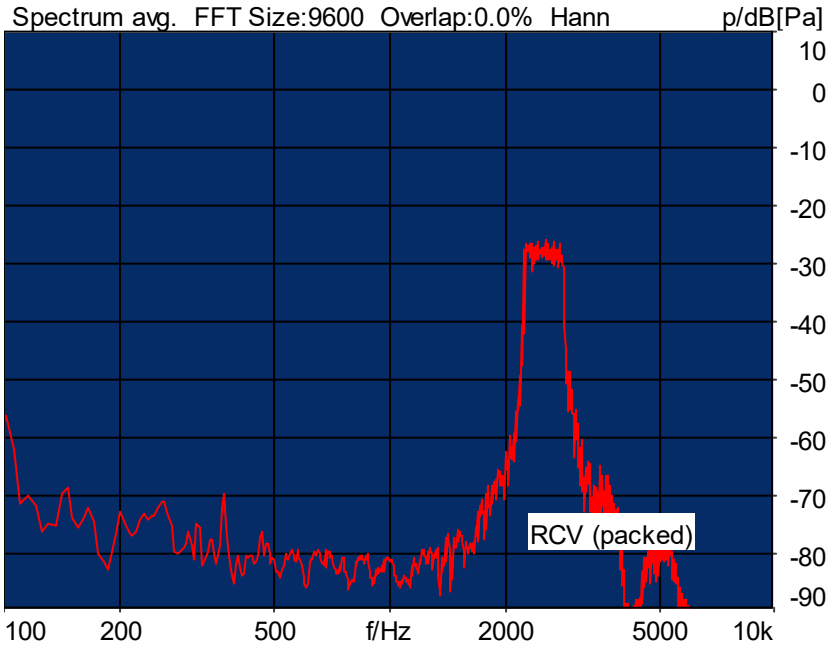
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 26.07 dB (4.97%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

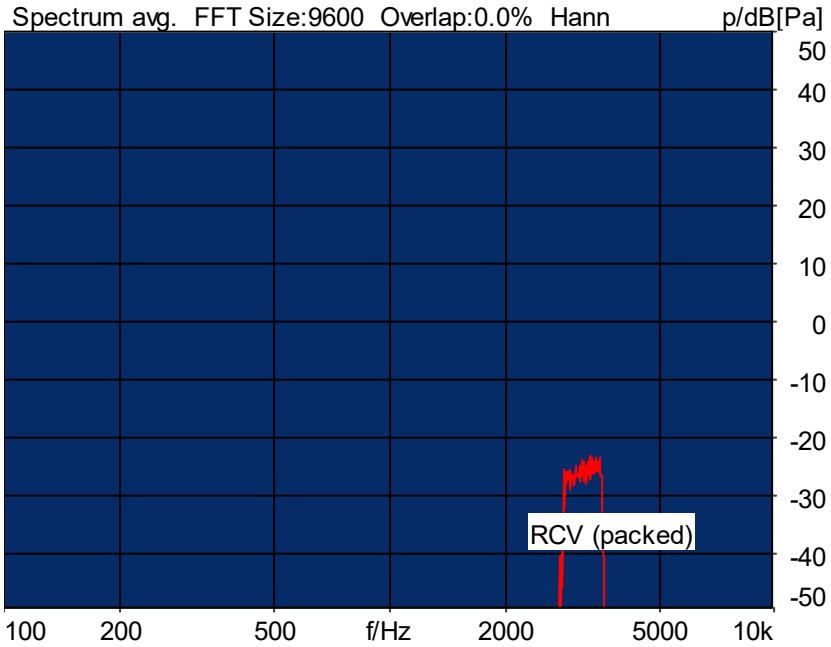
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 30.78 dB (2.89%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

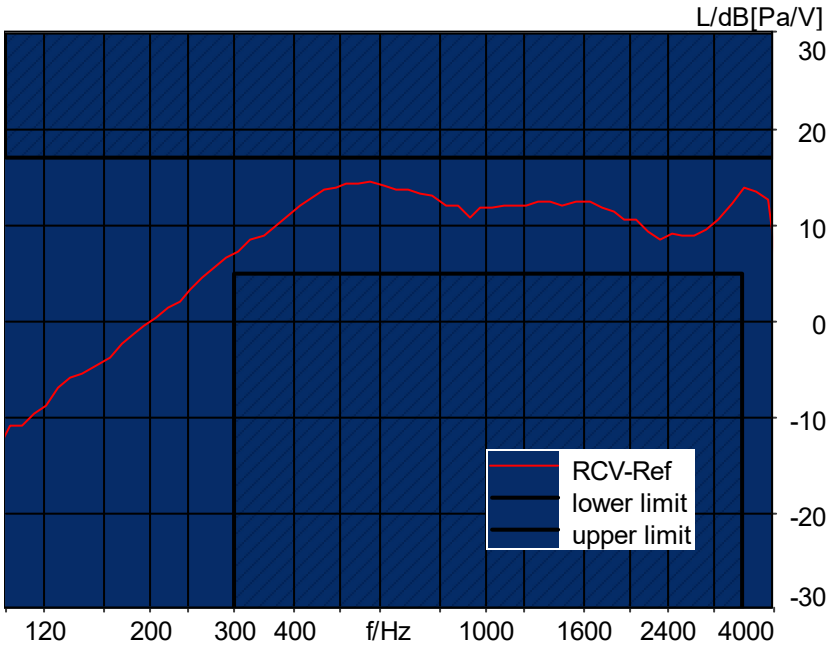
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 2N FF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Absolute minimal distance
2.43 dB at 305.9 Hz Ok

Ok

2026/9/8 17:45 ACQUA 6.2.100

Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat
Level adjustment Channel 1 Gain -90.00 dB
Level adjustment Channel 2 Gain -4.00 dB
NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.

0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	107.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(20#)

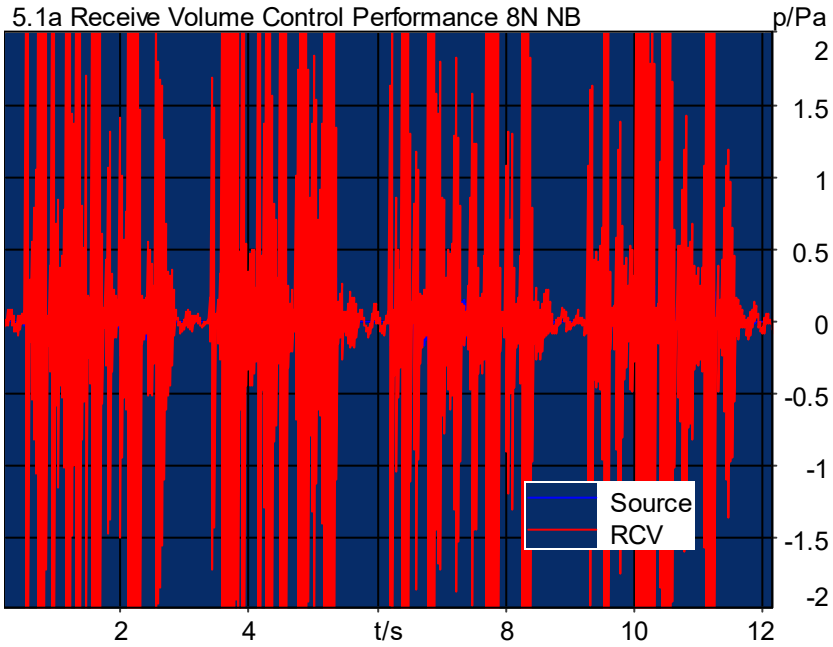
Measurement Object	Ti-CC26080336-LTEB71

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.17	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.54	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.69	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.02	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.66	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.44	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.89	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.16	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.15	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.07	Ti-CC26080336-LTEB71
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.34	Ti-CC26080336-LTEB71
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	2.44	Ti-CC26080336-LTEB71

5.1a Receive Volume Control Performance 8N NB

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Channel	Speech level	Activity	
RCV	91.17 dB[SPL]	80.78%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	119.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

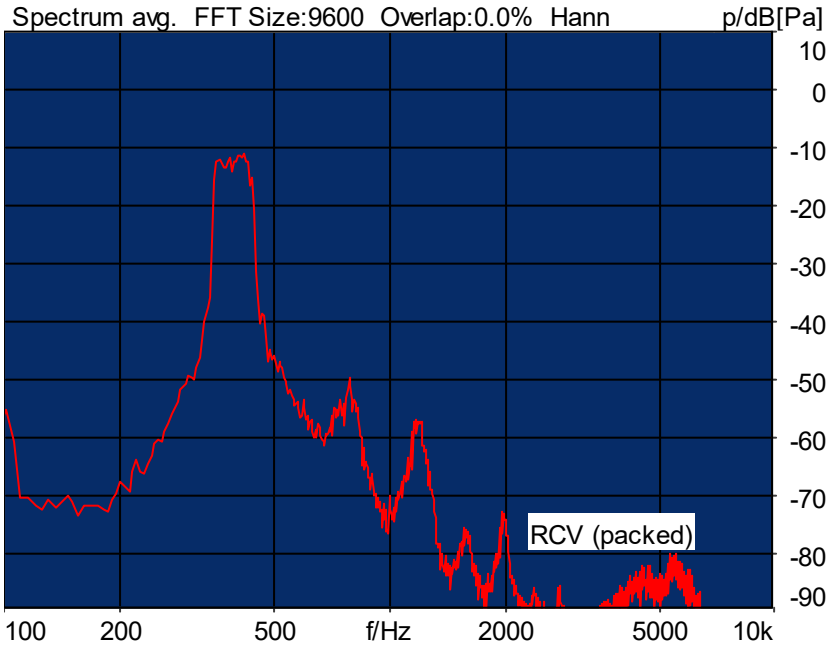
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 35.54 dB (1.67%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_400hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	320.0 Hz	Stimulus max.	480.0 Hz
Analysis min.	20.0 Hz	Analysis max.	315.0 Hz
Analysis (2) min.	485.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

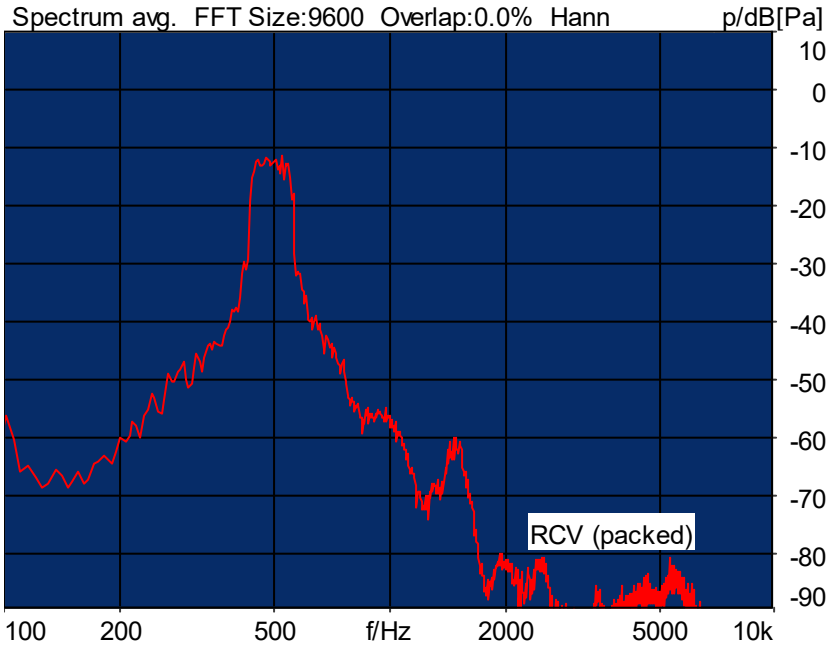
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 27.69 dB (4.12%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	410.0 Hz	Stimulus max.	595.0 Hz
Analysis min.	20.0 Hz	Analysis max.	405.0 Hz
Analysis (2) min.	600.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

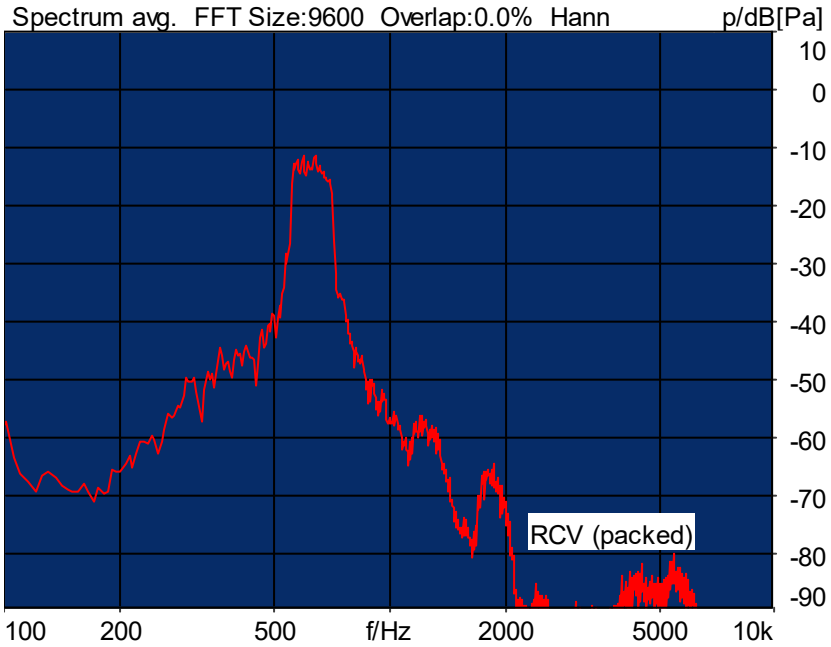
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 630 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.02 dB (3.97%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_630hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	525.0 Hz	Stimulus max.	745.0 Hz
Analysis min.	20.0 Hz	Analysis max.	520.0 Hz
Analysis (2) min.	750.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

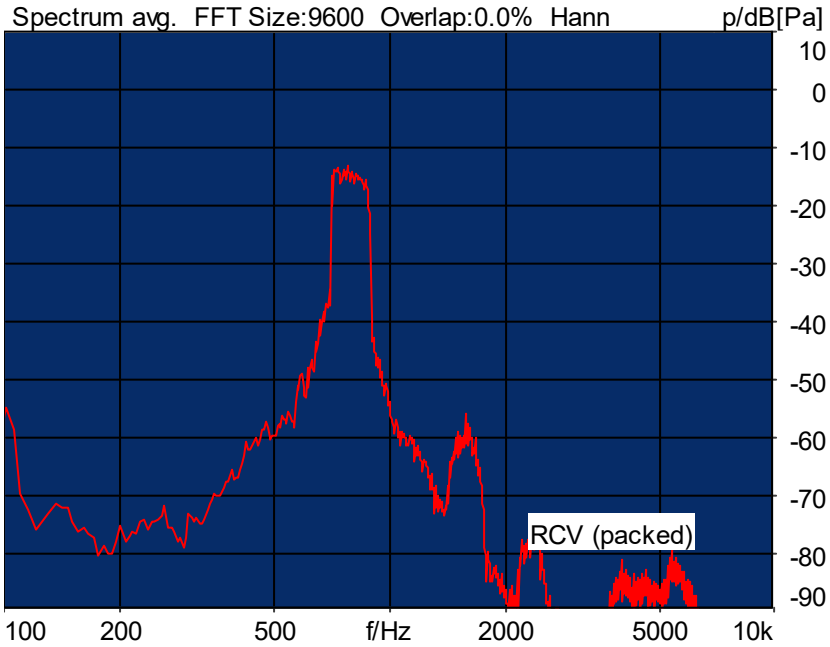
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 800 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 32.66 dB (2.33%) Ok

Ok

2026/9/8 17:49 ACQUA 6.2.100

Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_800hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	675.0 Hz	Stimulus max.	925.0 Hz
Analysis min.	20.0 Hz	Analysis max.	670.0 Hz
Analysis (2) min.	930.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

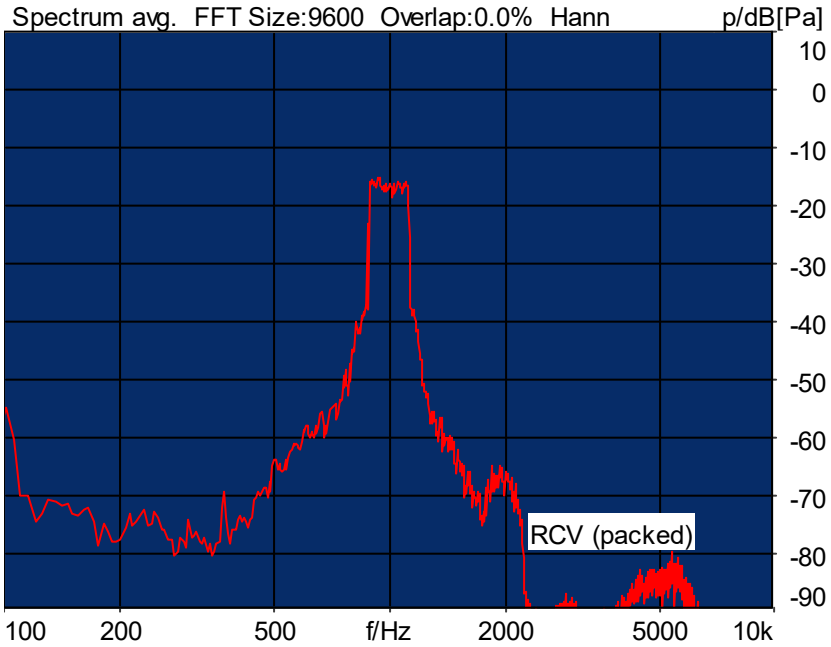
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 28.44 dB (3.78%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	855.0 Hz	Stimulus max.	1155.0 Hz
Analysis min.	20.0 Hz	Analysis max.	850.0 Hz
Analysis (2) min.	1160.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

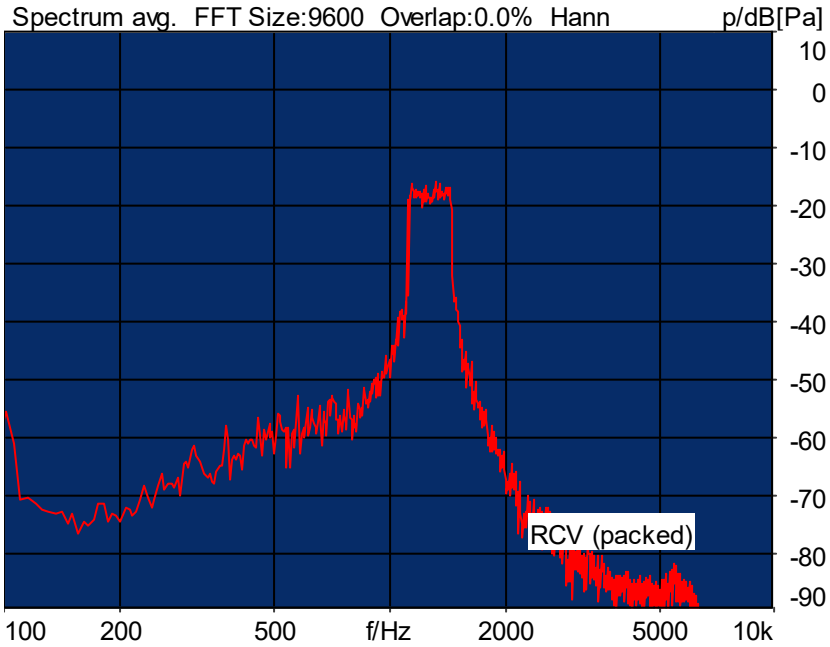
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1250 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 22.89 dB (7.17%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1250hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1085.0 Hz	Stimulus max.	1450.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1080.0 Hz
Analysis (2) min.	1455.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

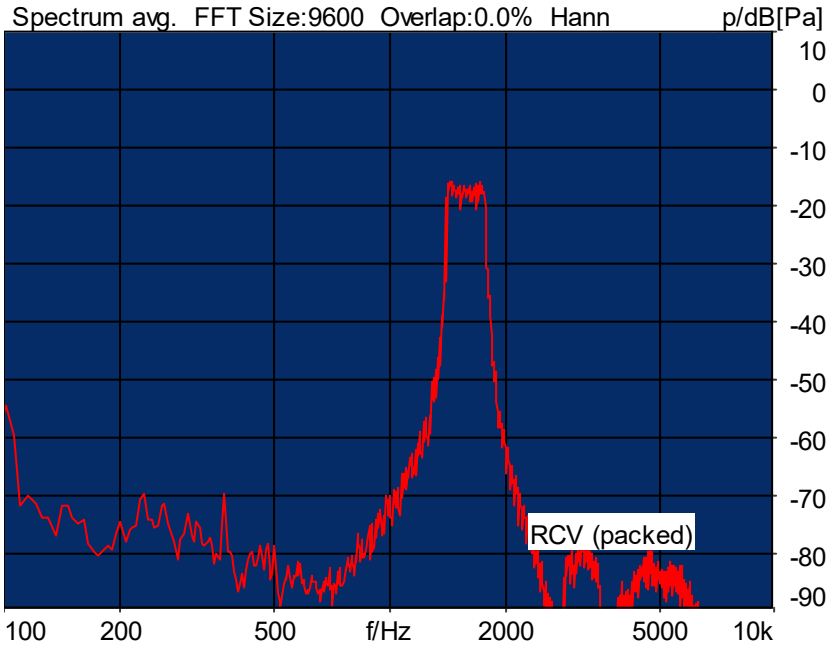
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 1600 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 30.16 dB (3.11%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_1600hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1375.0 Hz	Stimulus max.	1815.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1370.0 Hz
Analysis (2) min.	1820.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

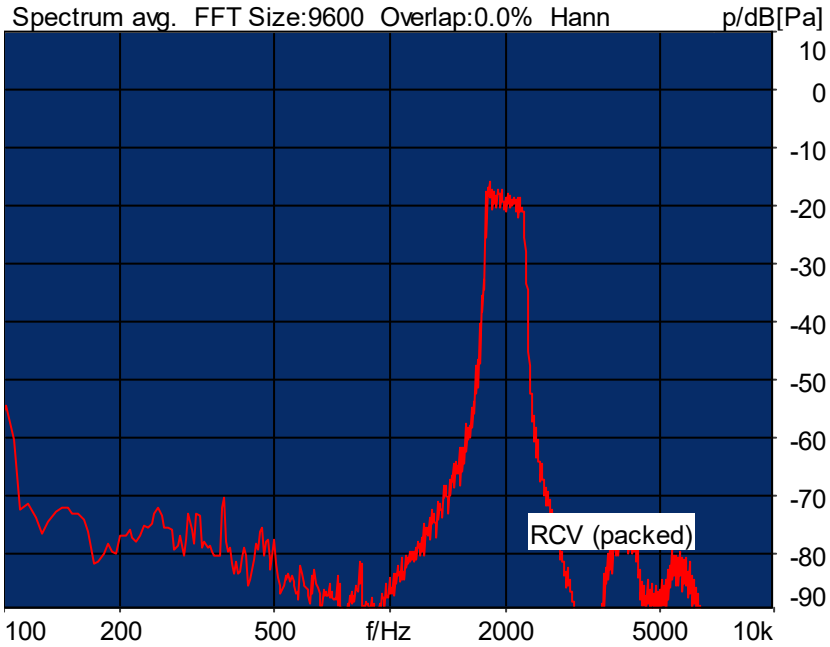
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 29.15 dB (3.49%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2000hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	1745.0 Hz	Stimulus max.	2275.0 Hz
Analysis min.	20.0 Hz	Analysis max.	1740.0 Hz
Analysis (2) min.	2280.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

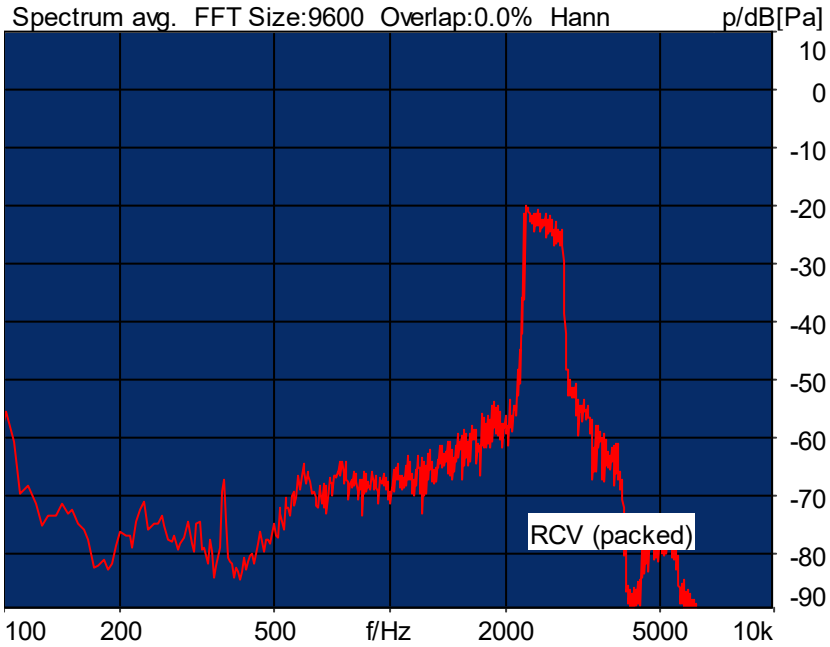
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 2500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N EVS-NB-9.6



Distortion (Noise) RCV (packed): 26.07 dB (4.97%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_2500hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2205.0 Hz	Stimulus max.	2855.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2200.0 Hz
Analysis (2) min.	2860.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

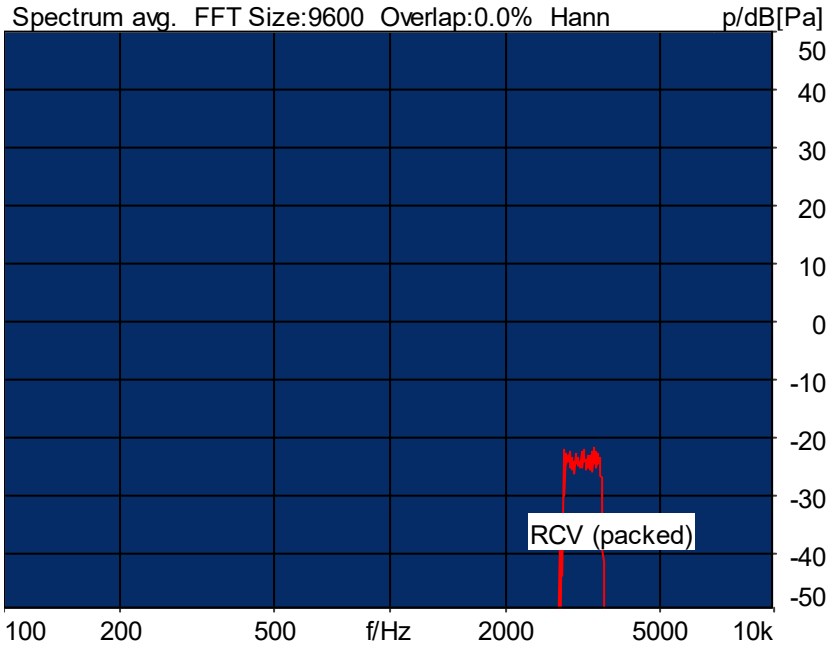
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.2 RCV Distortion and Noise - 3150 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N
EVS-NB-9.6



Distortion (Noise) RCV (packed): 30.34 dB (3.04%) Ok

Ok

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Limits

lower
20.00 dB

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: act_rpn_b250ms_3150hz_sr20dbm0_v02.dat

Level adjustment	Channel 1	Gain	-90.00 dB

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	13550.00 ms	Range length	200.00 ms
Number of seq.	10	Sequence length	400.00 ms
Frequency base	Transformation		
FFT size	9600	Overlap	0 %

Window function	Hann	Smooth	Off
dB weighting	A Weighting		
Stimulus min.	2785.0 Hz	Stimulus max.	3585.0 Hz
Analysis min.	20.0 Hz	Analysis max.	2780.0 Hz
Analysis (2) min.	3590.0 Hz	Analysis (2) max.	20000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

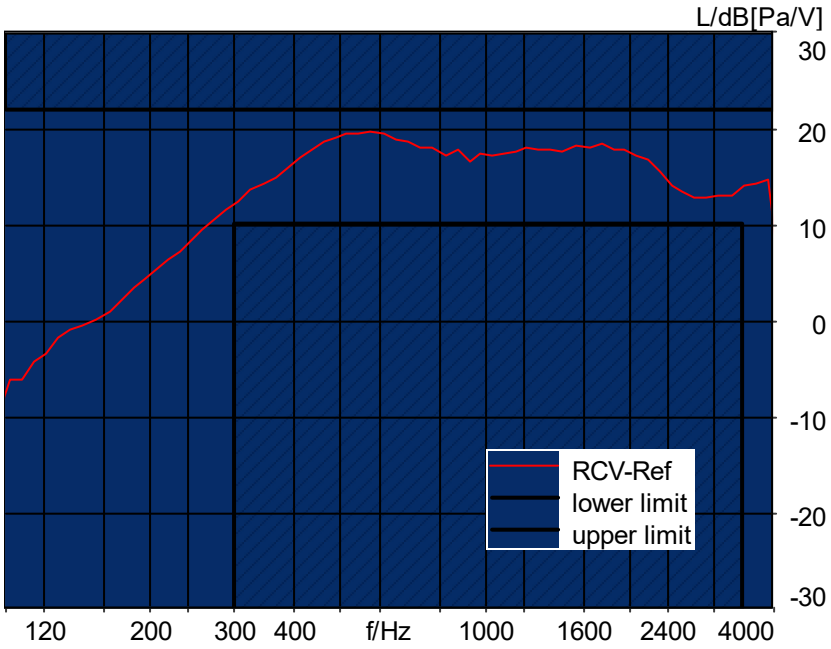
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.3 Frequency Response 8N FF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-9.6



Absolute minimal distance
2.44 dB at 305.9 Hz Ok

Ok

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Limits

lower
Fit into tolerance

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Source: respmaleieee269_nb_r16.dat
Level adjustment Channel 1 Gain -90.00 dB
Level adjustment Channel 2 Gain -4.00 dB
NARROWBAND IEEE-269-2010 Real Speech Signal at Channel 2
Pause 0.5 s +
Real Speech (english, male speaker) 11.5 s, Active Speech Level: -16 dBm0, margin 15.9 dB +
Pause till end of file
Signal level (ch1): -16 dBm0 Active Speech Level, margin 15.9 dB

Signal taken from "IEEE_269-2010_Male_mono_48_kHz.wav"
Alteration:
0.2 s Pause added at the beginning of the file.

0.8 s Pause added at the and of the file.
filtered with 4.0 kHz low-pass filter
signal level changed

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	500.00 ms	Range length	11500.00 ms
Frequency base	12th octave	DIN Row	Row A
Method	FFT		
FFT size	4096	Overlap	75 %
Window function	Hann		
Reference file	r521_rcv_frq_spee269_hanb.fft		
Tol. scheme file	521_rcv_frq_man_hanb.tol	Min. freq. for tol.	100.0 Hz
Auto adjust	Centrate	Max. freq. for tol.	4000.0 Hz

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Compensate delay	108.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(21#~24#)

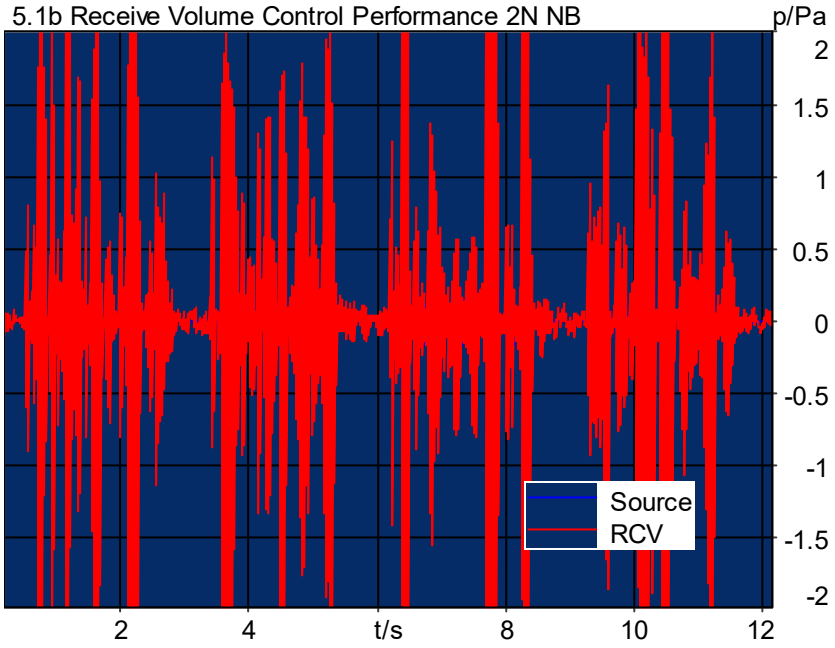
Measurement Object	Ti-CC26080336-GSM850	Ti-CC26080336-GSM1900

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	85.91	Ti-CC26080336-GSM850
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	91.78	Ti-CC26080336-GSM850
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.35	Ti-CC26080336-GSM1900
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.07	Ti-CC26080336-GSM1900

5.1b Receive Volume Control Performance 2N NB(GSM850)

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



Channel	Speech level	Activity	
RCV	85.91 dB[SPL]	80.29%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	177.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

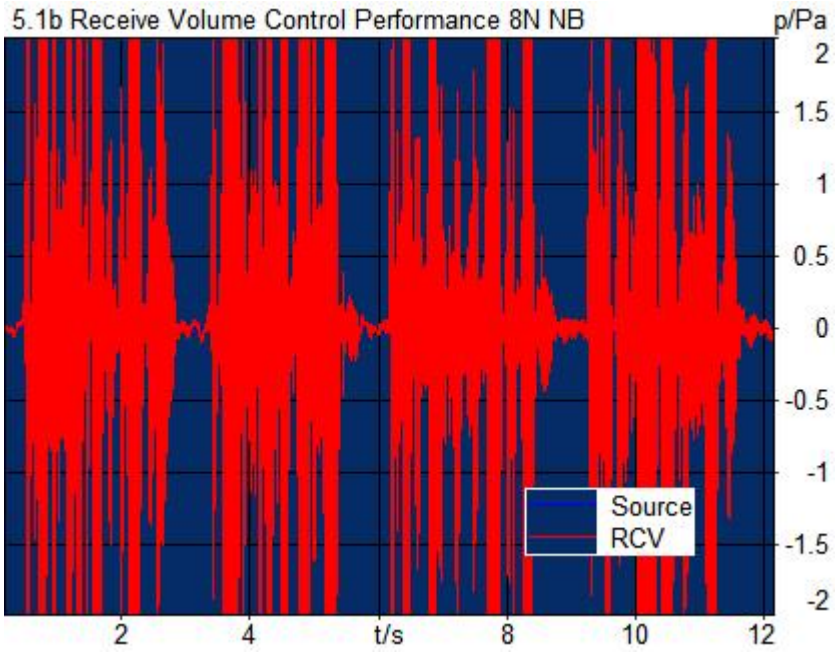
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 8N NB(GSM850)

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



Channel	Speech level	Activity	
RCV	91.78 dB[SPL]	80.69%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	183.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

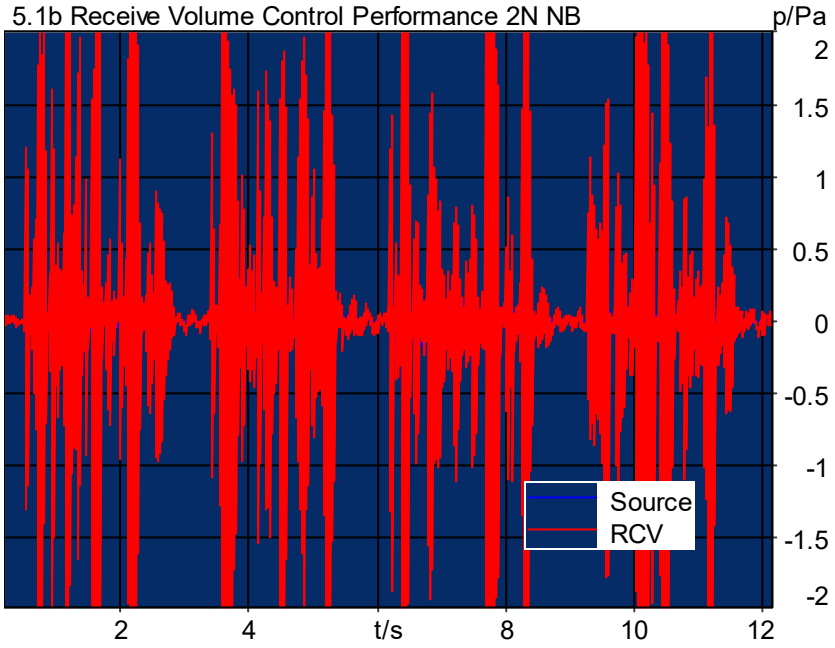
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB(GSM1900)

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



Channel	Speech level	Activity	
RCV	86.35 dB[SPL]	80.48%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	180.5000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

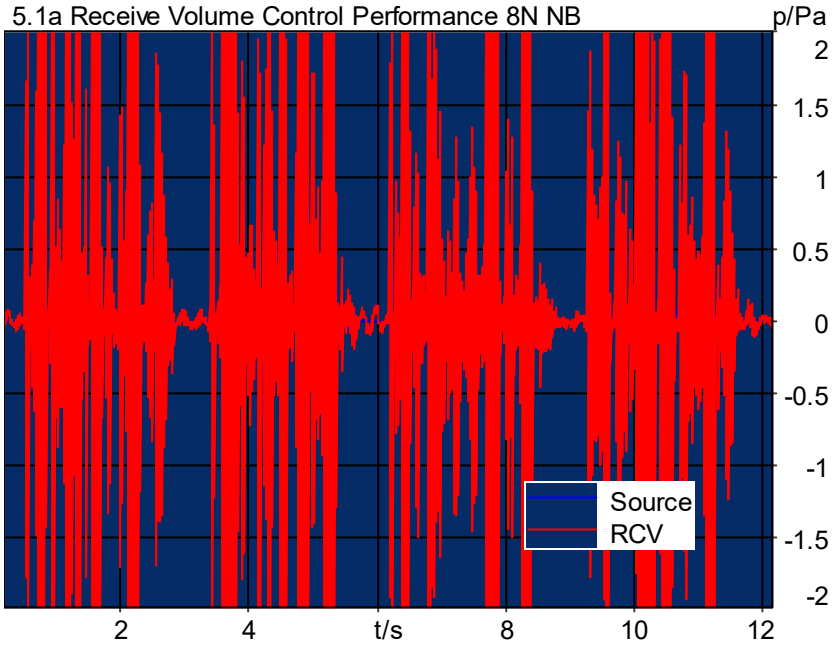
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB(GSM1900)

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



Channel	Speech level	Activity	
RCV	91.07 dB[SPL]	80.46%	Ok

Ok

2026/9/9 4:32 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	182.6000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(25#~30#)

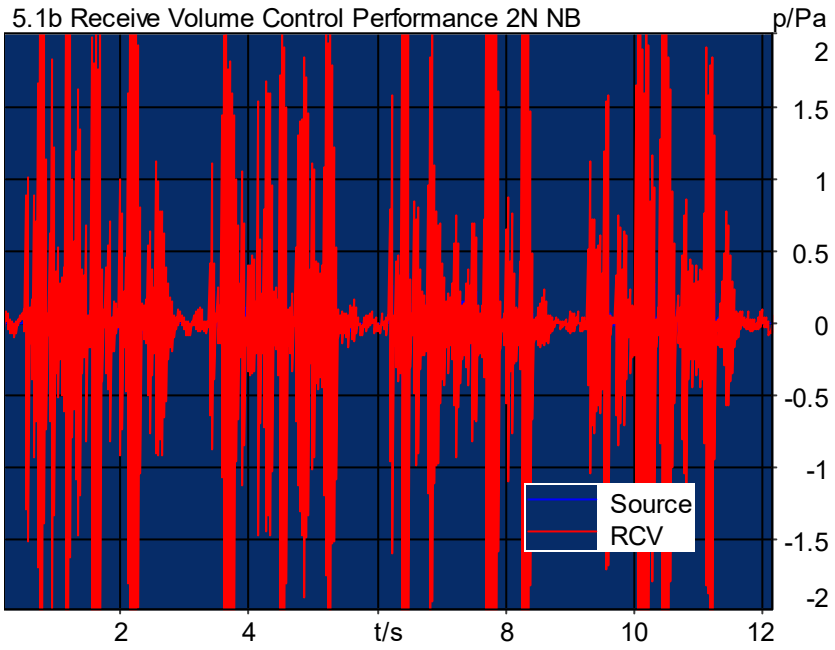
Measurement Object	Ti-CC26080336-WB2	Ti-CC26080336-WB4	Ti-CC26080336-WB5

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.48	Ti-CC26080336-WB2
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.14	Ti-CC26080336-WB2
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.38	Ti-CC26080336-WB4
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.12	Ti-CC26080336-WB4
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.59	Ti-CC26080336-WB5
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.15	Ti-CC26080336-WB5

5.1b Receive Volume Control Performance 2N NB (WB2)

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



Channel	Speech level	Activity	
RCV	86.48 dB[SPL]	80.28%	Ok

Ok

2026/9/9 4:54 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	192.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

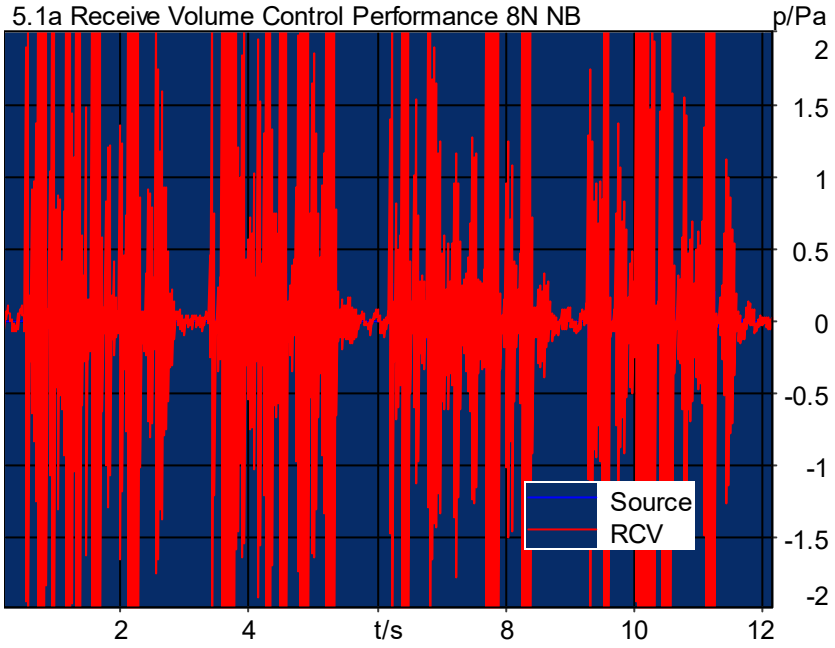
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (WB2)

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



Channel	Speech level	Activity	
RCV	91.14 dB[SPL]	80.47%	Ok

Ok

2026/9/9 4:58 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	186.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

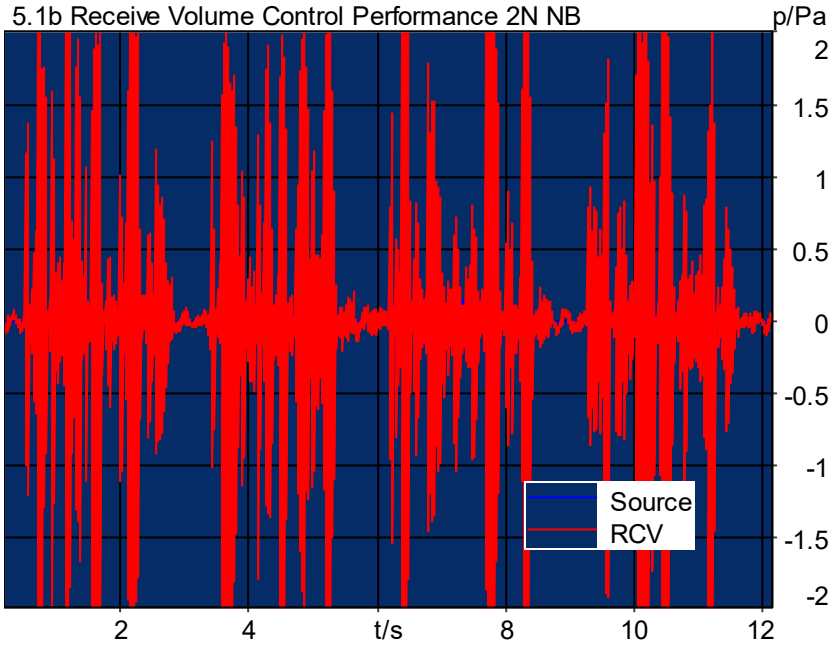
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB (WB4)

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



Channel	Speech level	Activity	
RCV	86.38 dB[SPL]	80.60%	Ok

Ok

2026/9/9 5:12 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	181.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

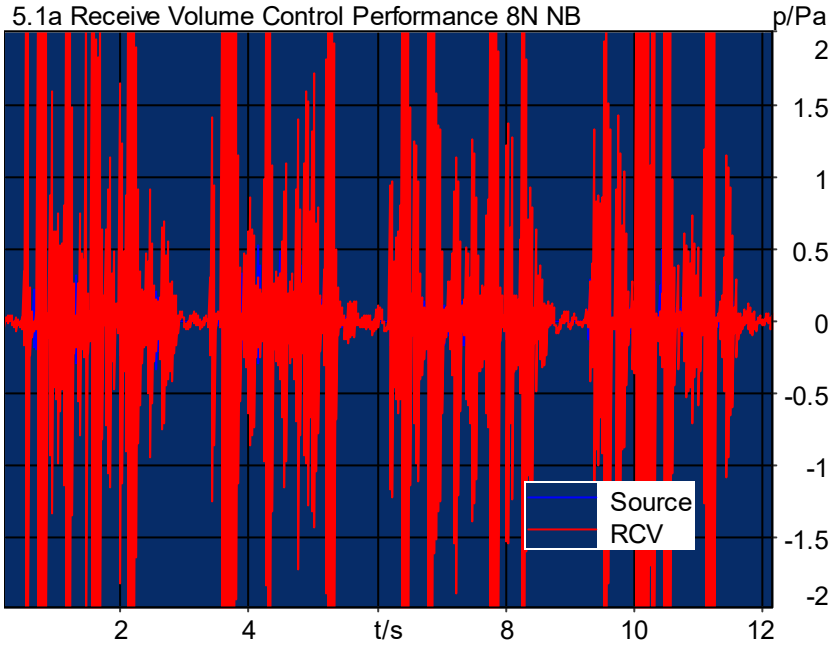
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (WB4)

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



Channel	Speech level	Activity	
RCV	89.12 dB[SPL]	79.75%	Ok

Ok

2026/9/9 5:00 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	187.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

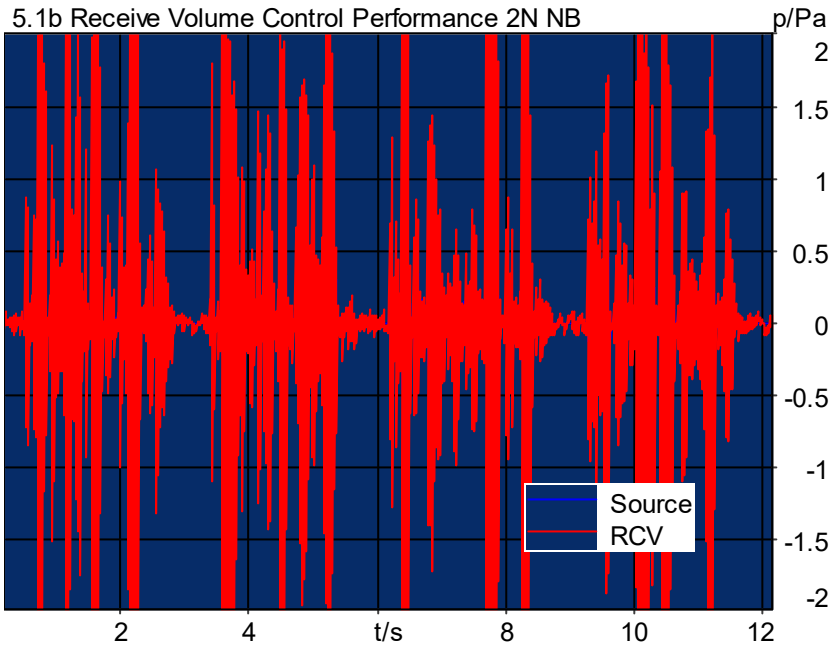
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB (WB5)

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



Channel	Speech level	Activity	
RCV	86.59 dB[SPL]	80.31%	Ok

Ok

2026/9/9 5:13 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	182.6000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

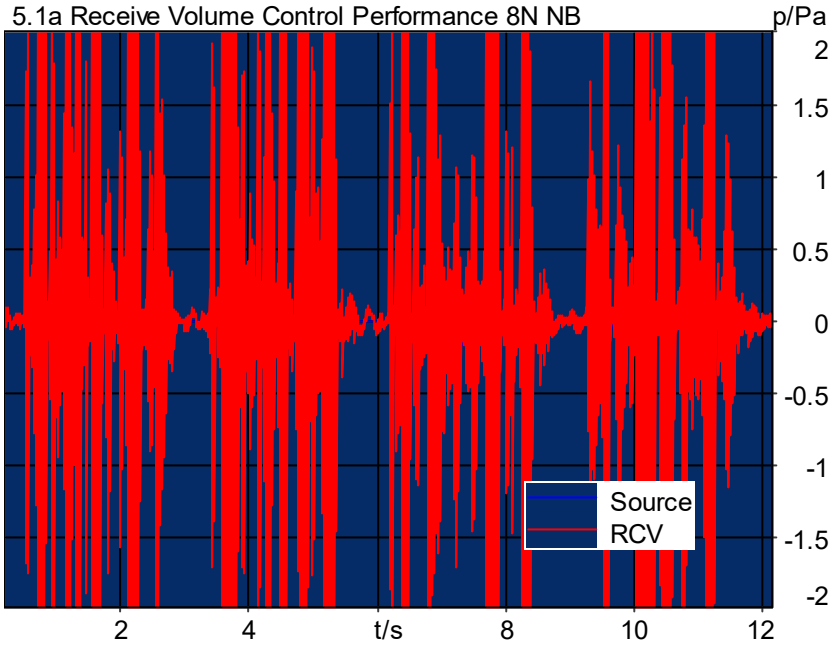
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (WB5)

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



Channel	Speech level	Activity	
RCV	91.15 dB[SPL]	80.42%	Ok

Ok

2026/9/9 5:17 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	182.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

Measurement Protocol(31#~50#)

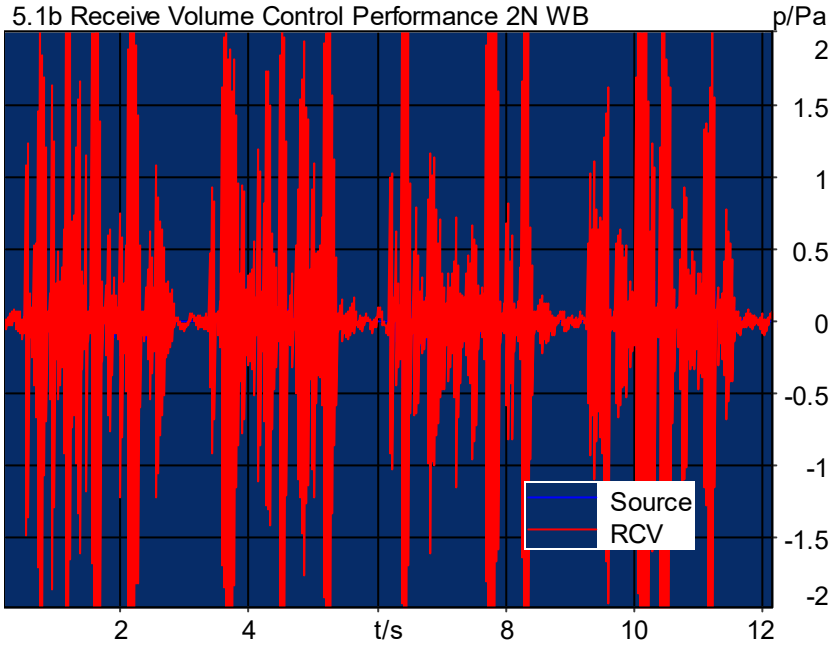
Measurement Object	Ti-CC2608033 6-LTEB2	Ti-CC2608033 6-LTEB4	Ti-CC2608033 6-LTEB5	Ti-CC26080336-LTEB12	Ti-CC26080336-LTEB13	Ti-CC26080336-LTEB17	Ti-CC26080336-LTEB25	Ti-CC26080336-LTEB26	Ti-CC26080336-LTEB66	Ti-CC26080336-LTEB71

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.72	Ti-CC26080336-LTEB2
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.22	Ti-CC26080336-LTEB2
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.29	Ti-CC26080336-LTEB4
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.01	Ti-CC26080336-LTEB4
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.98	Ti-CC26080336-LTEB5
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.65	Ti-CC26080336-LTEB5
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.97	Ti-CC26080336-LTEB12
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.61	Ti-CC26080336-LTEB12
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	87.02	Ti-CC26080336-LTEB13
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.61	Ti-CC26080336-LTEB13
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.92	Ti-CC26080336-LTEB17
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.69	Ti-CC26080336-LTEB17
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.35	Ti-CC26080336-LTEB25
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.89	Ti-CC26080336-LTEB25
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.97	Ti-CC26080336-LTEB26
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.82	Ti-CC26080336-LTEB26
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	86.25	Ti-CC26080336-LTEB66
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.88	Ti-CC26080336-LTEB66
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.41	Ti-CC26080336-LTEB71
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	91.00	Ti-CC26080336-LTEB71

5.1b Receive Volume Control Performance 2N WB (LTEB2)

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



Channel	Speech level	Activity	
RCV	85.72 dB[SPL]	80.40%	Ok

Ok

2026/9/9 0:02 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	110.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

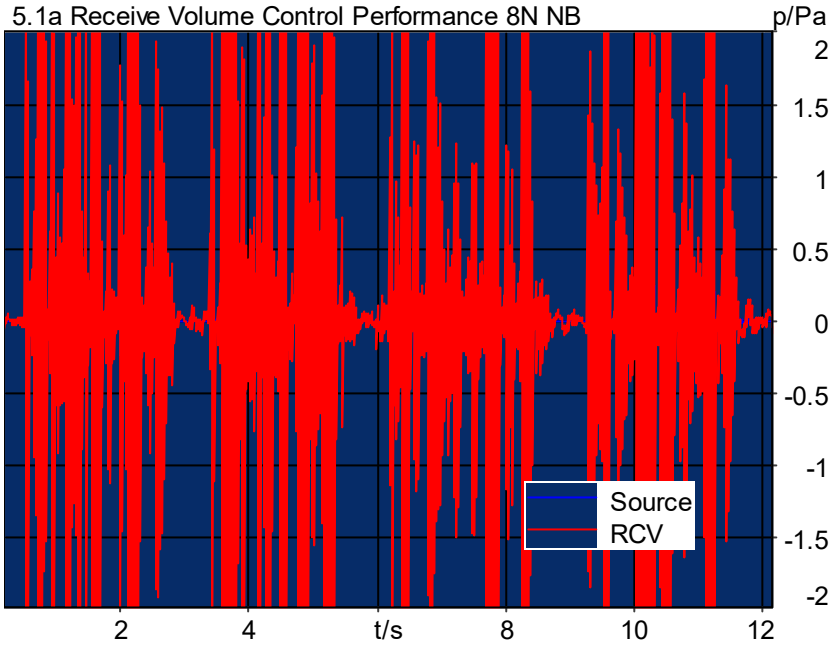
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (LTEB2)

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



Channel	Speech level	Activity	
RCV	91.22 dB[SPL]	80.78%	Ok

Ok

2026/9/9 0:24 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	123.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

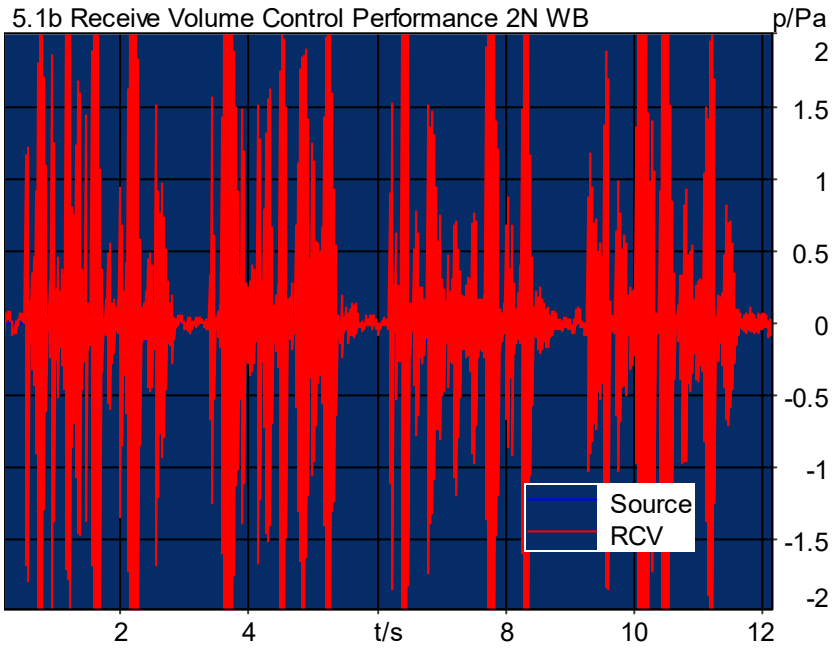
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N WB (LTEB4)

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



Channel	Speech level	Activity	
RCV	86.29 dB[SPL]	80.90%	Ok

Ok

2026/9/9 0:41 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	109.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

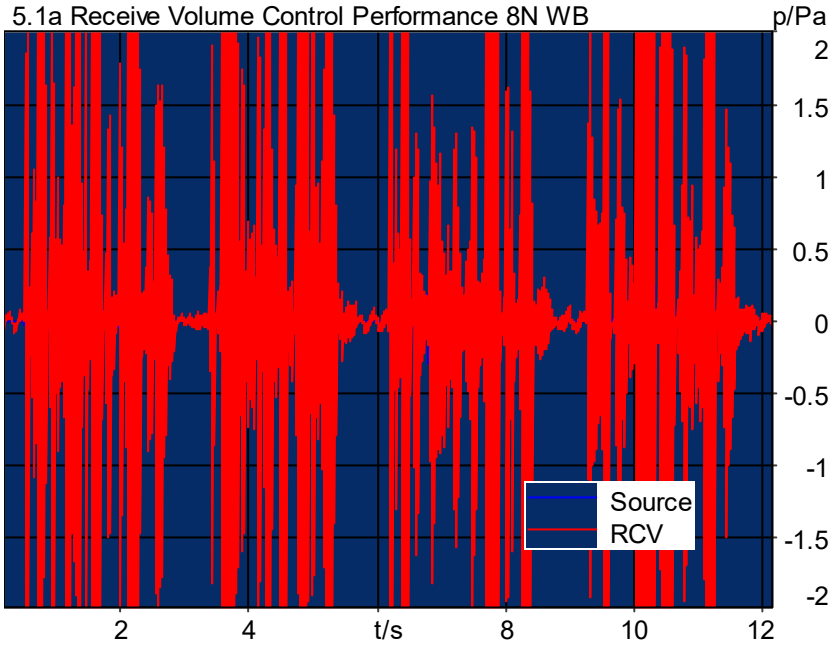
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N WB (LTEB4)

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



Channel	Speech level	Activity	
RCV	91.01 dB[SPL]	80.63%	Ok

Ok

2026/9/9 0:32 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	123.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

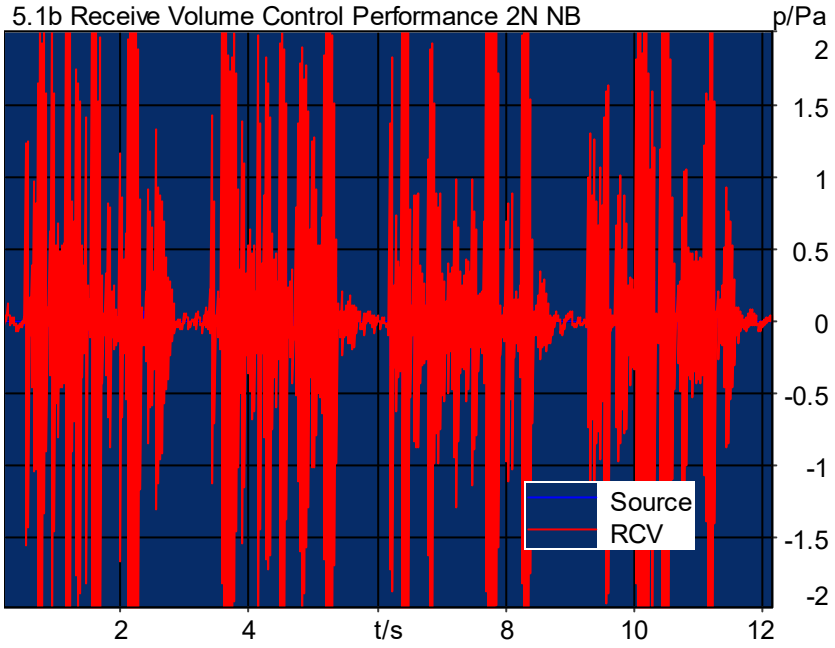
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB (LTEB5)

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



Channel	Speech level	Activity	
RCV	86.98 dB[SPL]	80.96%	Ok

Ok

2026/9/9 2:29 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	120.5000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

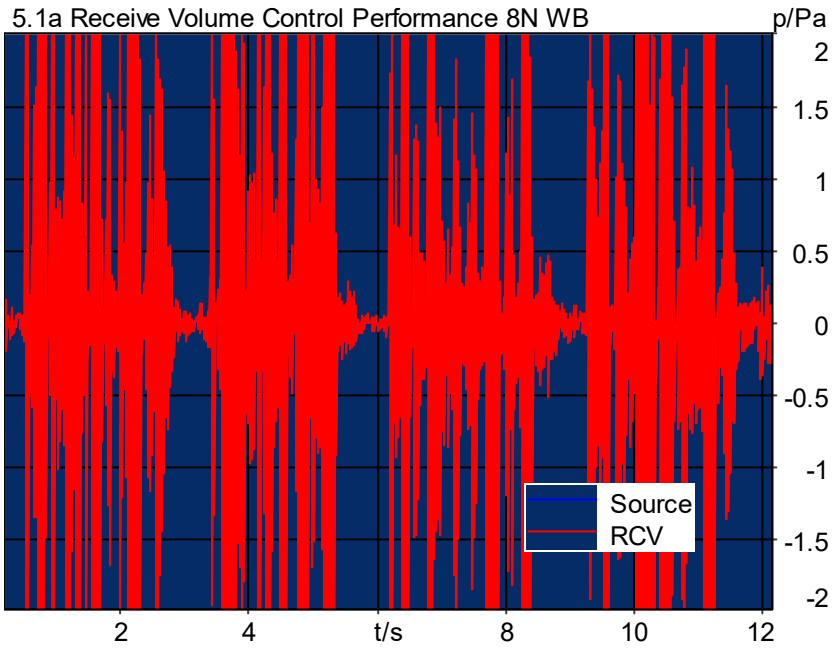
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N WB (LTEB5)

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



Channel	Speech level	Activity	
RCV	91.65 dB[SPL]	80.84%	Ok

Ok

2026/9/9 2:38 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	115.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

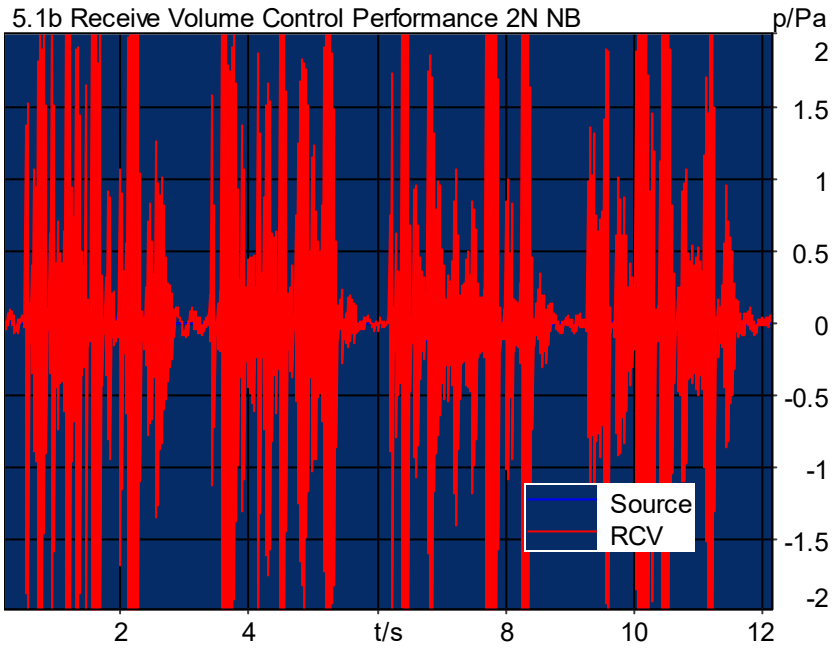
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB (LTEB12)

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



Channel	Speech level	Activity	
RCV	86.97 dB[SPL]	81.05%	Ok

Ok

2026/9/9 2:59 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	121.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

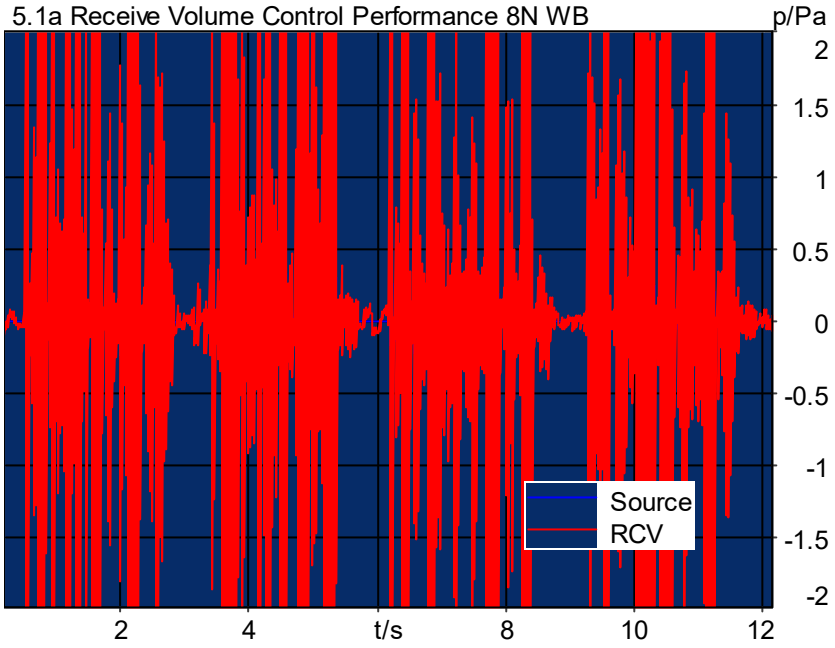
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N WB (LTEB12)

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



Channel	Speech level	Activity	
RCV	91.61 dB[SPL]	80.73%	Ok

Ok

2026/9/9 2:48 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	108.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

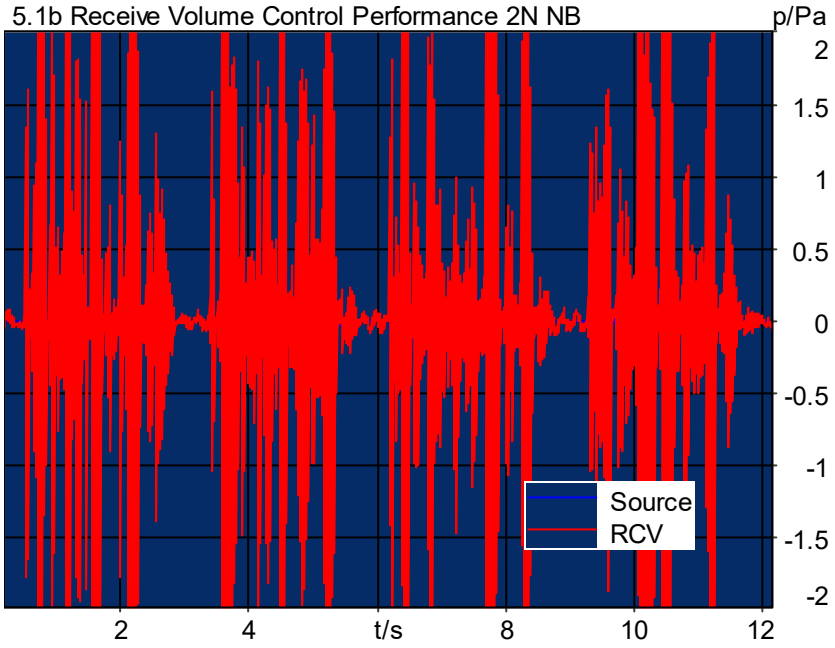
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB (LTEB13)

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



Channel	Speech level	Activity	
RCV	87.02 dB[SPL]	80.97%	Ok

Ok

2026/9/9 3:12 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	106.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

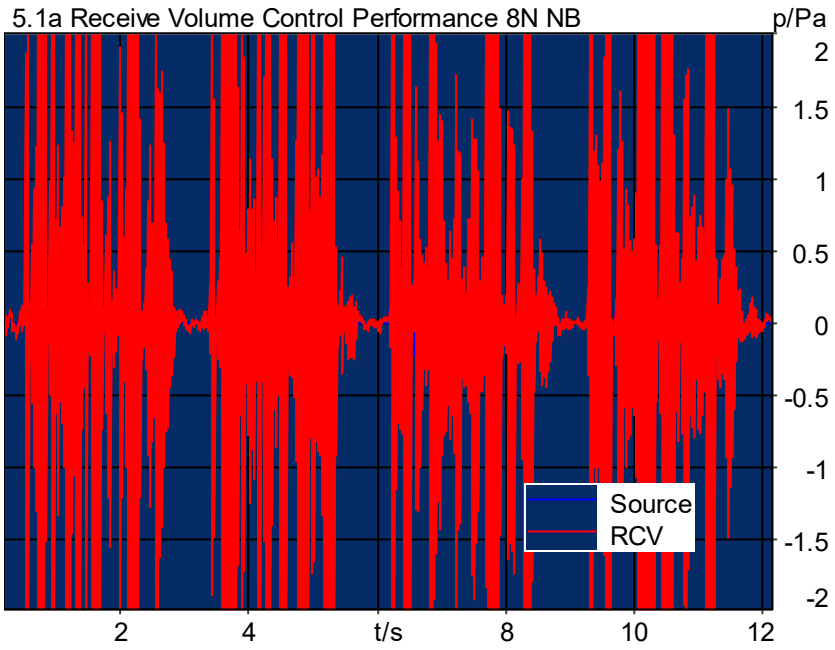
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (LTEB13)

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



Channel	Speech level	Activity	
RCV	91.61 dB[SPL]	80.78%	Ok

Ok

2026/9/9 3:20 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	106.5000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

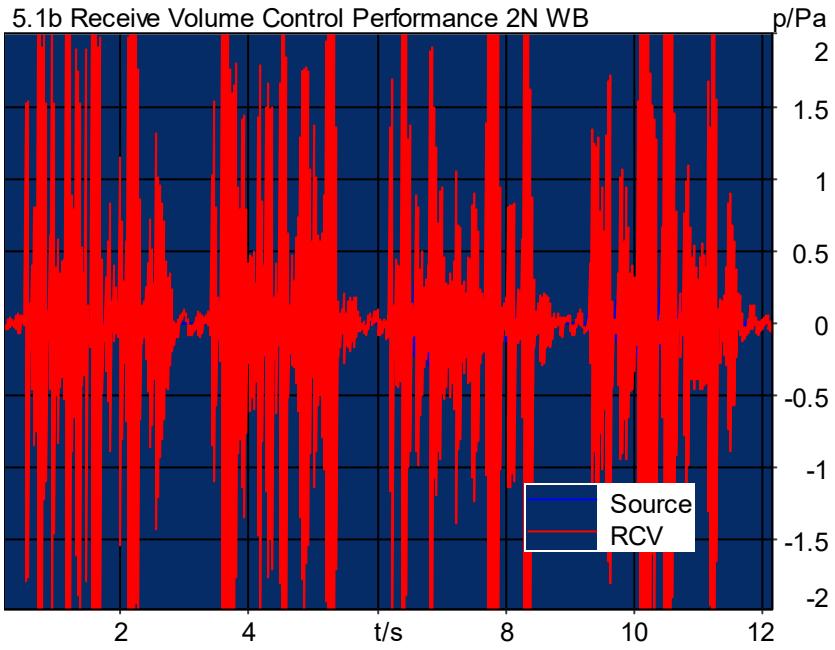
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N WB (LTEB17)

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



Channel	Speech level	Activity	
RCV	86.92 dB[SPL]	81.02%	Ok

Ok

2026/9/9 3:30 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	106.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

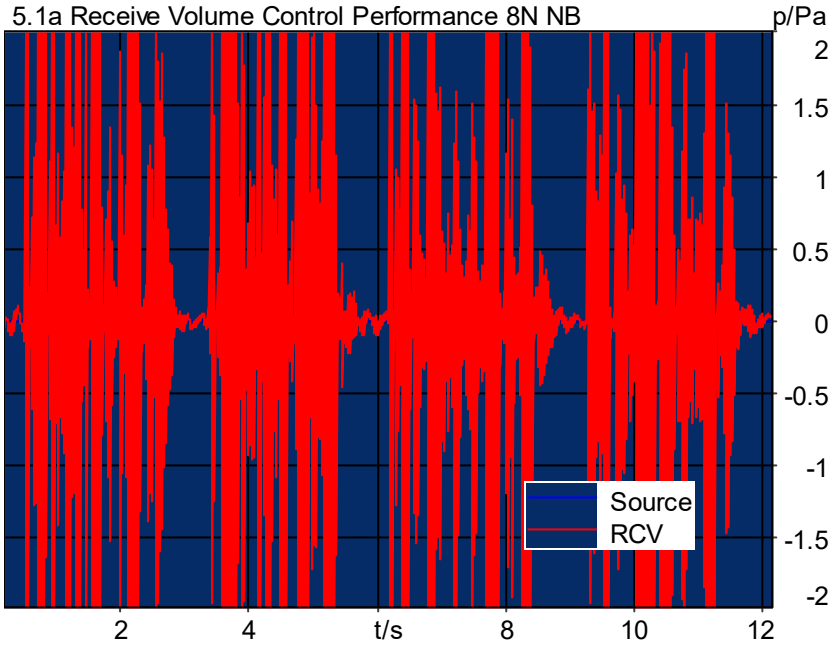
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (LTEB17)

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



Channel	Speech level	Activity	
RCV	91.69 dB[SPL]	80.79%	Ok

Ok

2026/9/9 3:22 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	109.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

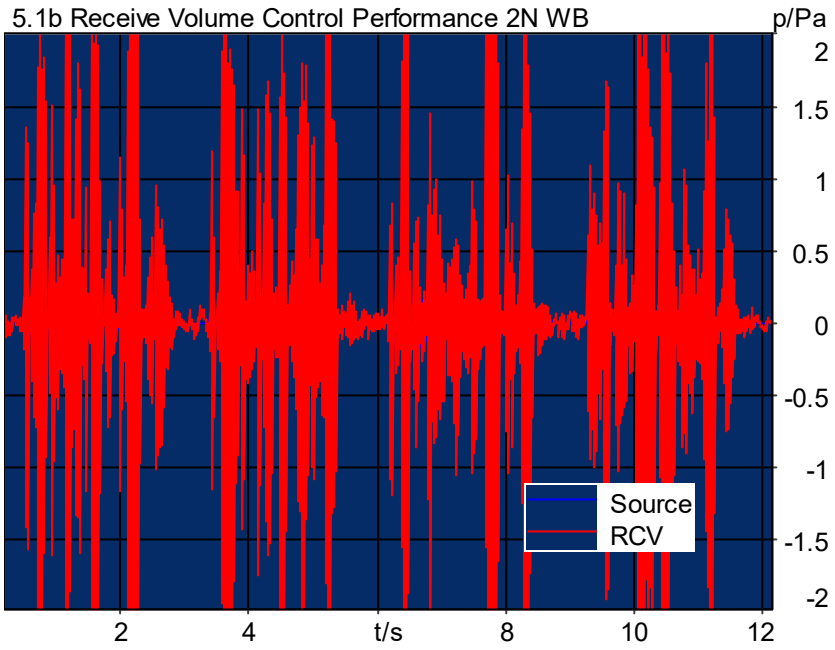
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N WB (LTEB25)

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



Channel	Speech level	Activity	
RCV	86.35 dB[SPL]	80.80%	Ok

Ok

2026/9/9 0:45 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	118.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

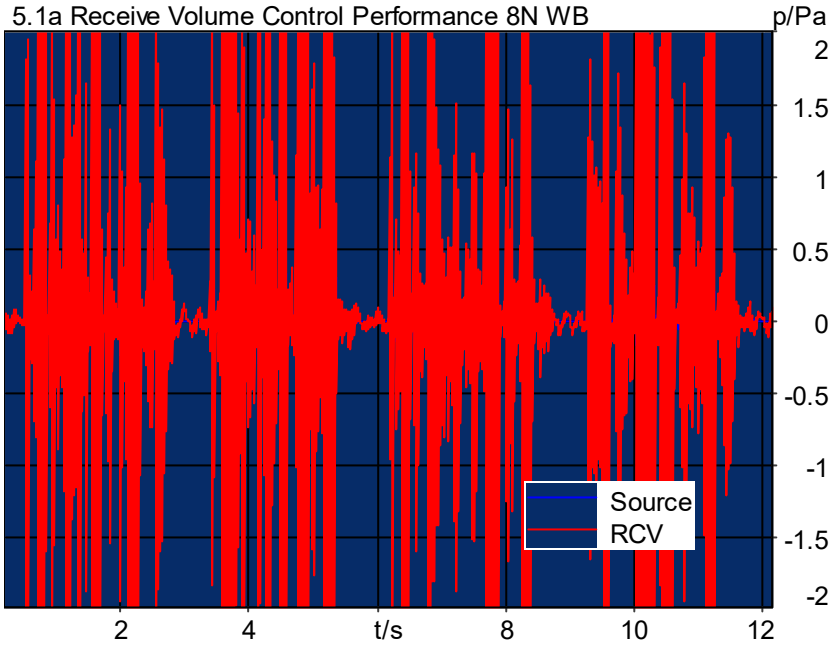
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N WB (LTEB25)

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



Channel	Speech level	Activity	
RCV	90.89 dB[SPL]	80.66%	Ok

Ok

2026/9/9 1:34 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	112.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

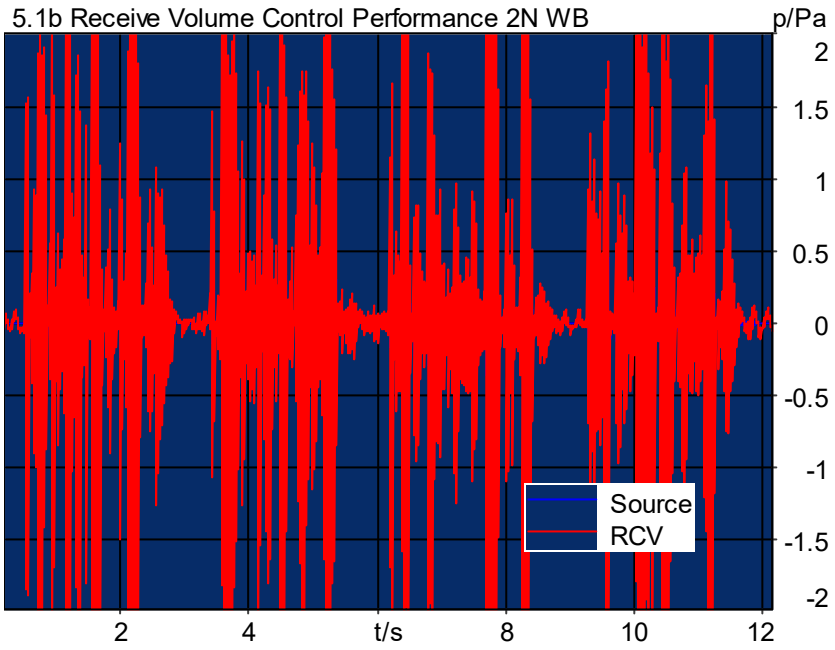
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N WB (LTEB26)

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



Channel	Speech level	Activity	
RCV	86.97 dB[SPL]	80.91%	Ok

Ok

2026/9/9 2:23 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	108.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

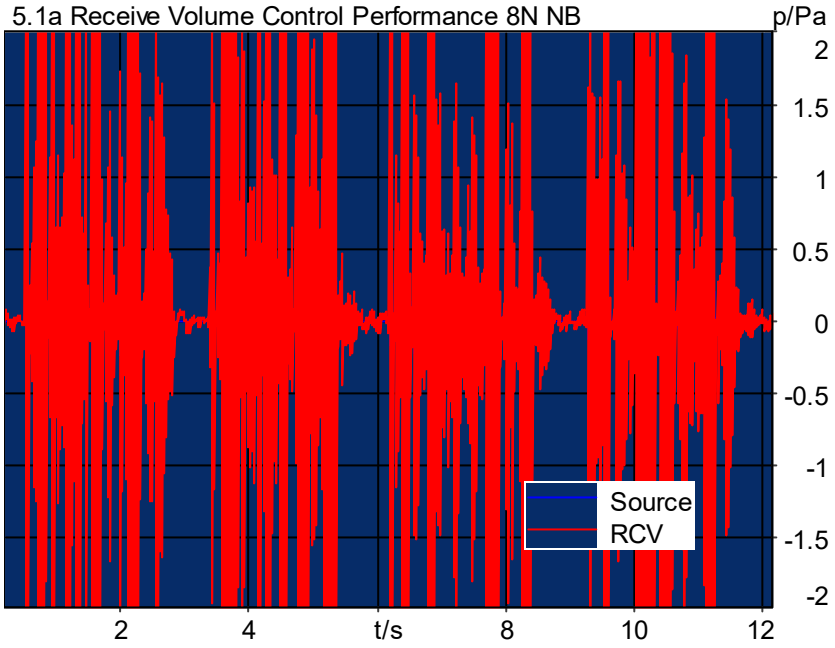
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (LTEB26)

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



Channel	Speech level	Activity	
RCV	91.82 dB[SPL]	80.96%	Ok

Ok

2026/9/9 2:18 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	108.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

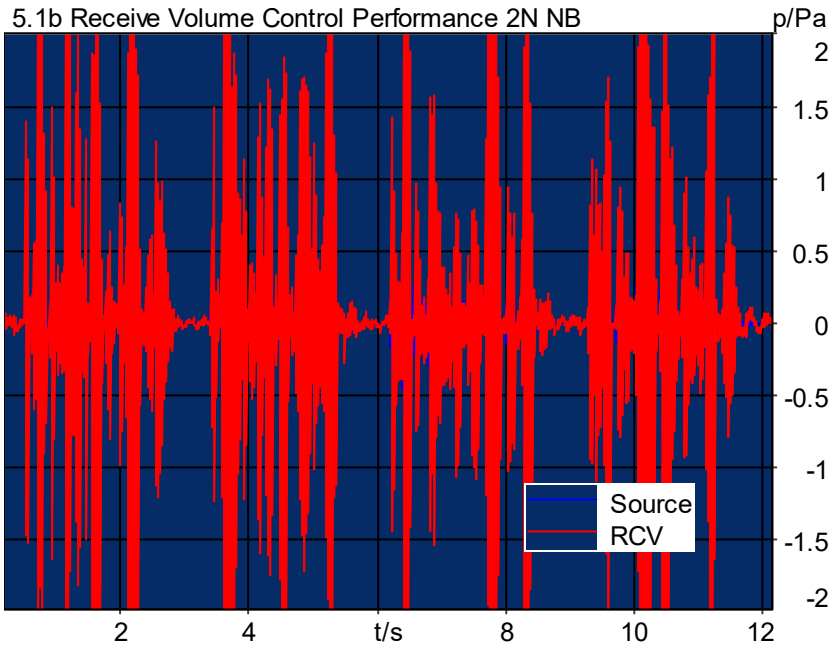
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N NB (LTEB66)

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



Channel	Speech level	Activity	
RCV	86.25 dB[SPL]	80.86%	Ok

Ok

2026/9/9 1:49 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	108.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

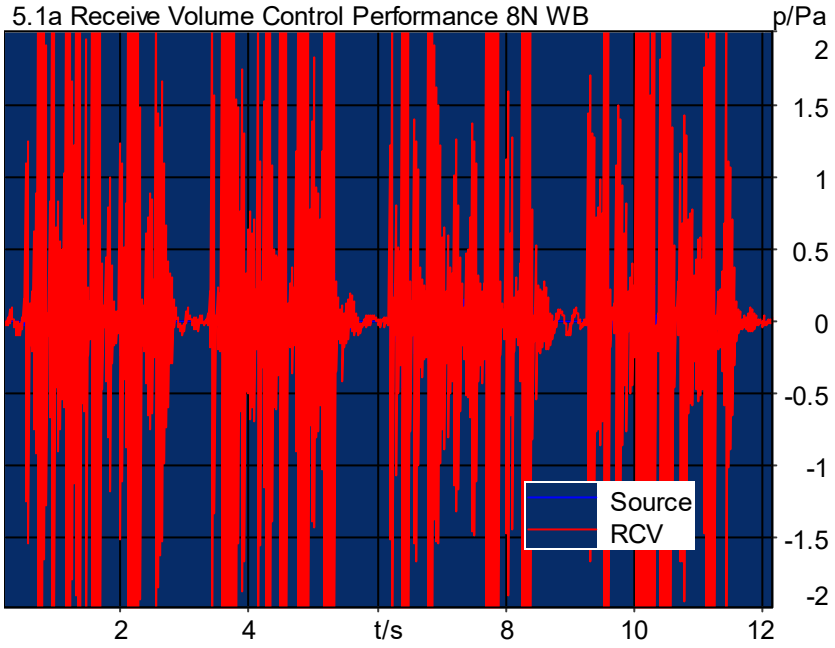
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N WB (LTEB66)

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



Channel	Speech level	Activity	
RCV	90.88 dB[SPL]	80.67%	Ok

Ok

2026/9/9 1:44 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	113.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

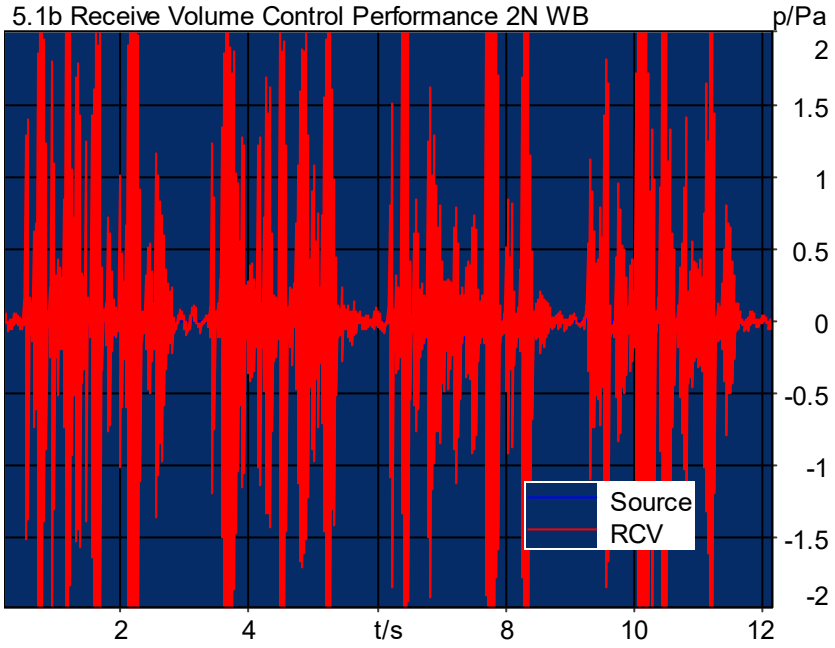
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1b Receive Volume Control Performance 2N WB (LTEB71)

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



Channel	Speech level	Activity	
RCV	86.41 dB[SPL]	80.94%	Ok

Ok

2026/9/9 1:56 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Super Wideband	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	114.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

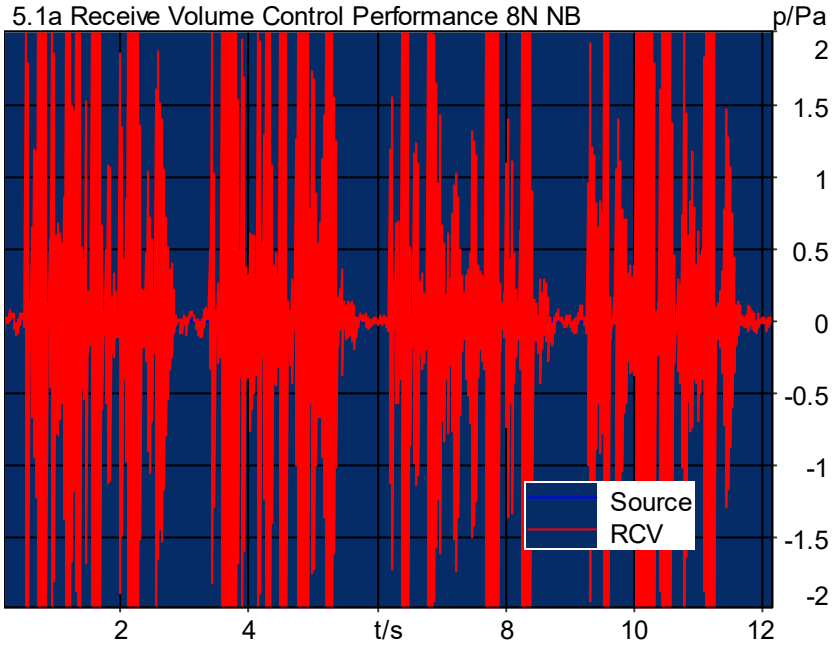
Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone

5.1a Receive Volume Control Performance 8N NB (LTEB71)

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



Channel	Speech level	Activity	
RCV	91.00 dB[SPL]	80.73%	Ok

Ok

2026/9/9 2:03 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

Meas. Setting DRP

Underlying Standard: TIA-5050 (2018-01)
Database Version: 40_HAC_Suite_Rev03

Calibration

RCV (2)	0.04 dB 2025/12/15 (HATS 1 (HMS II.3))
Output ch. 1	0.00 dB
Output ch. 2	0.00 dB (Radio Tester 1 (CMW500))

Analysis

Analyse	Channel 2		
Range start	200.00 ms	Range length	12000.00 ms
Bandpass filter	Narrow Band	Margin (15.9dB nom)	15.90 dB

Input Filters

FIR Filter	Channel 2	Filename	drp2ff_ieee1652.fft

Special Features

Show source signal	Source ch.2
Compensate delay	122.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

Used Setting	TIA5050

MFE VI Settings

Output Ch.1	Line	Output Ch.2	Line
Input Ch.1	Microphone	Input Ch.2	Microphone