Measurement Protocol(1#)

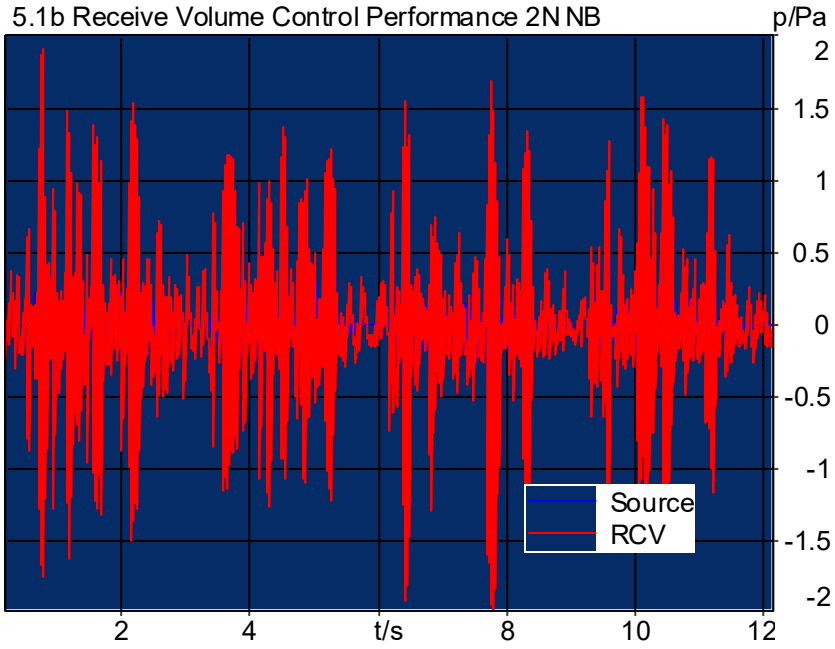
Measurement Object	Ti-CC26050303-LTEB2

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.75	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.04	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.96	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.96	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.65	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.34	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.62	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.86	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.76	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.87	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.23	Ti-CC26050303-LTEB2
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.96	Ti-CC26050303-LTEB2

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.75 dB[SPL]	80.61%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

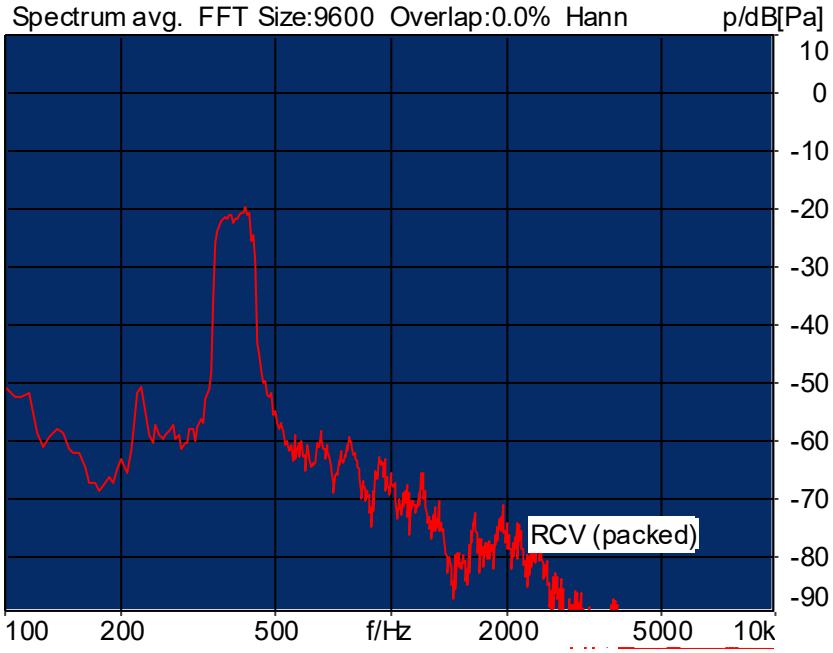
Used Setting	TIA5050

MFE VI Settings

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

5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



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

Ok

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Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

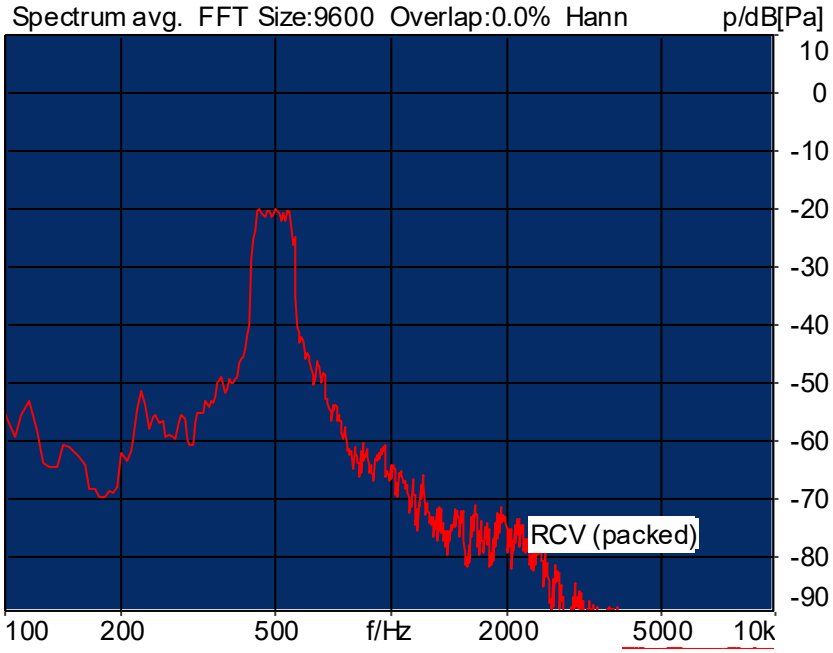
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 27.96 dB (4.00%) Ok

Ok

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Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

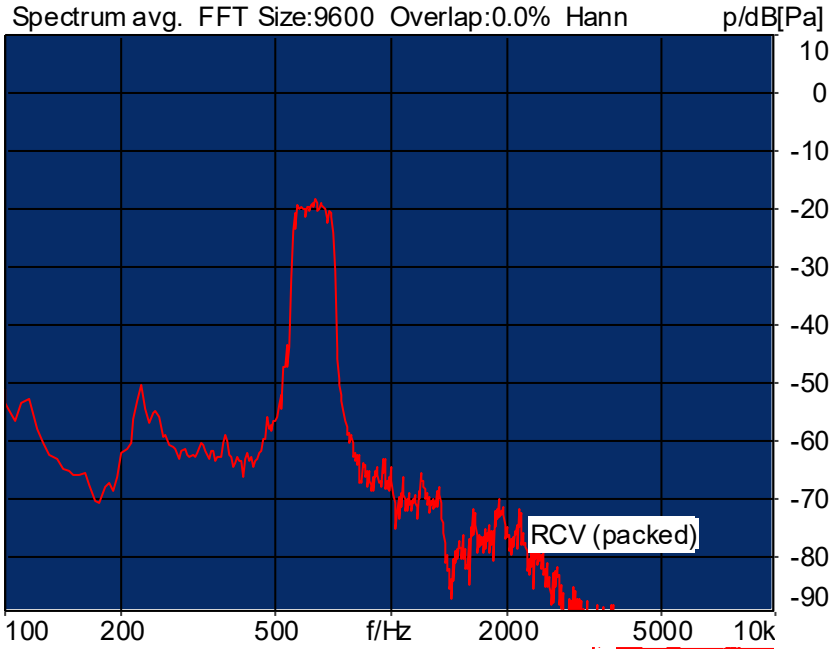
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.96 dB (1.42%) Ok

Ok

2026/6/6 3:34 ACQUA 6.2.100

Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

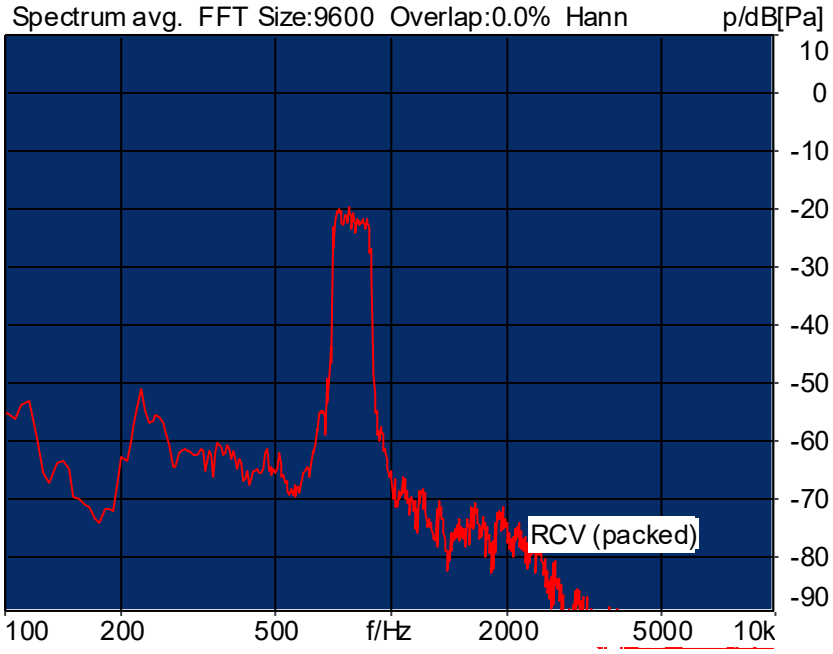
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.65 dB (1.47%) Ok

Ok

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Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

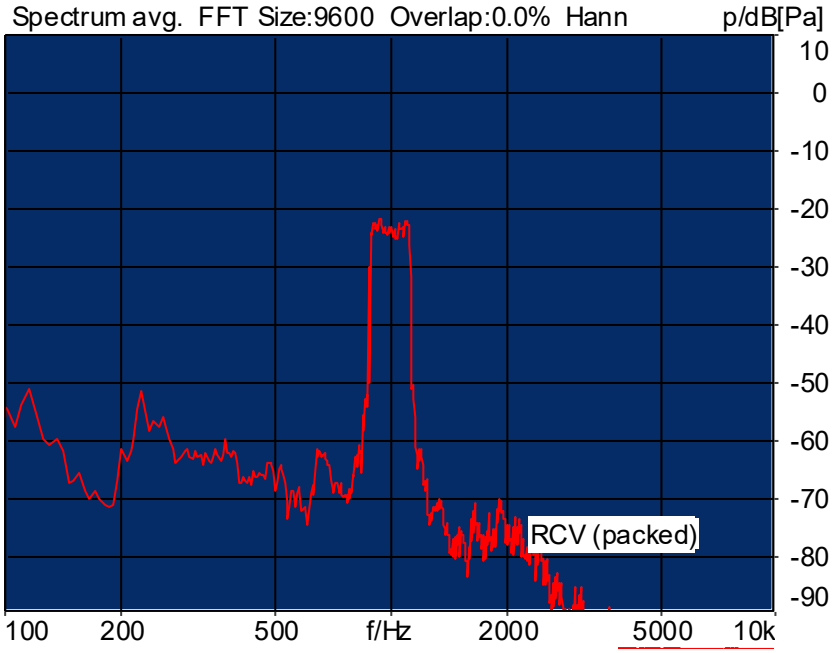
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 37.34 dB (1.36%) Ok

Ok

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Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

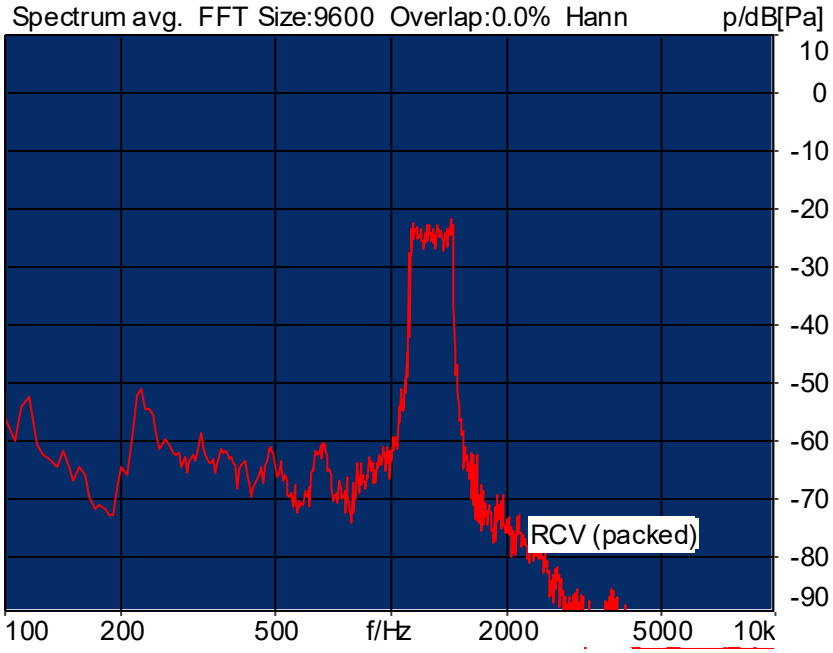
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 26.62 dB (4.66%) Ok

Ok

2026/6/6 3:35 ACQUA 6.2.100

Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

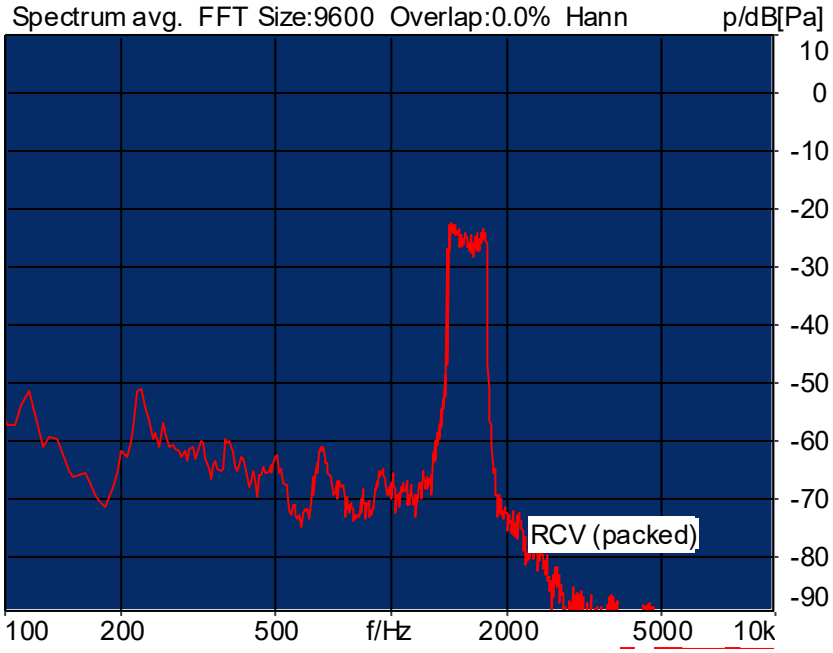
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 34.86 dB (1.81%) Ok

Ok

2026/6/6 3:35 ACQUA 6.2.100

Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

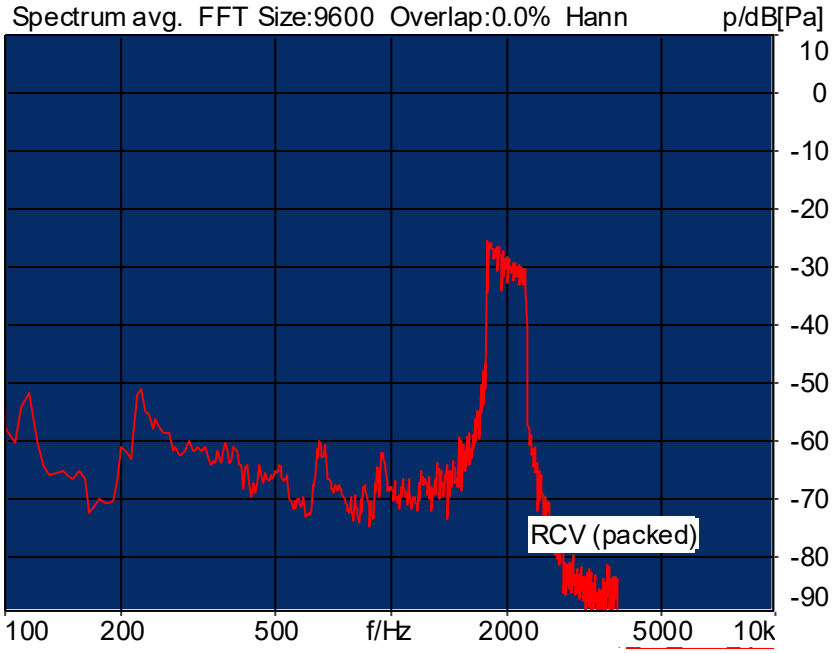
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 27.76 dB (4.09%) Ok

Ok

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Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

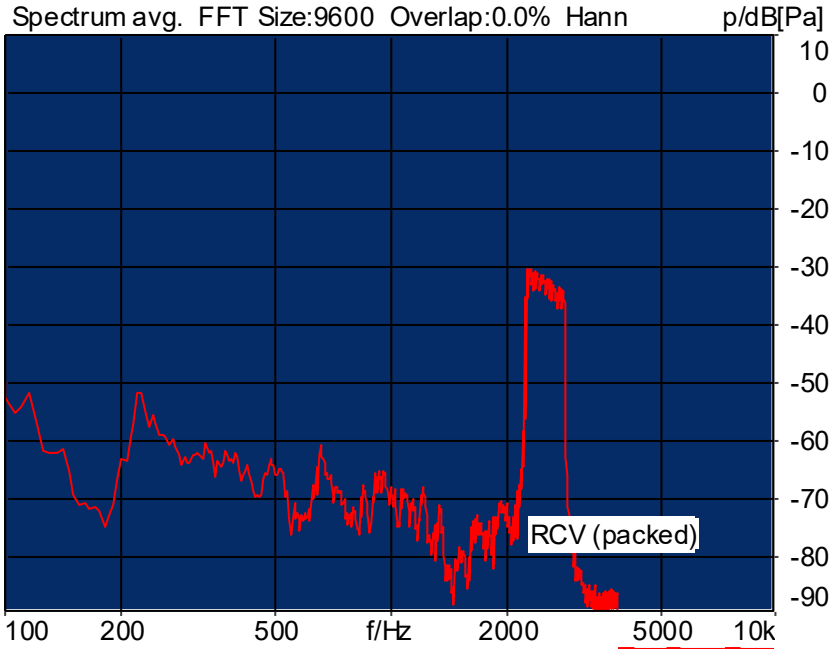
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.87 dB (2.55%) Ok

Ok

2026/6/6 3:36 ACQUA 6.2.100

Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

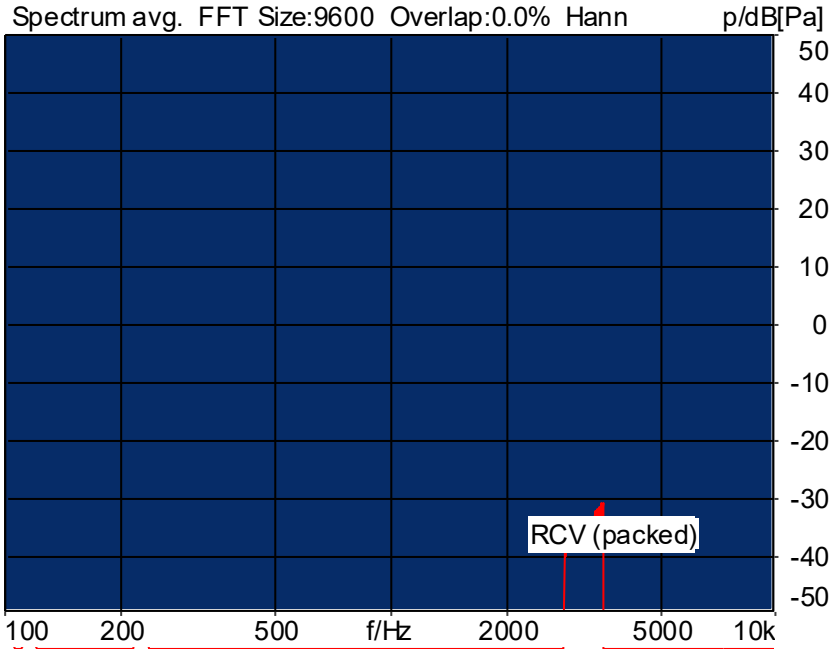
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.23 dB (2.74%) Ok

Ok

2026/6/6 3:36 ACQUA 6.2.100

Limits

lower
20.00 dB

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	136.2000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

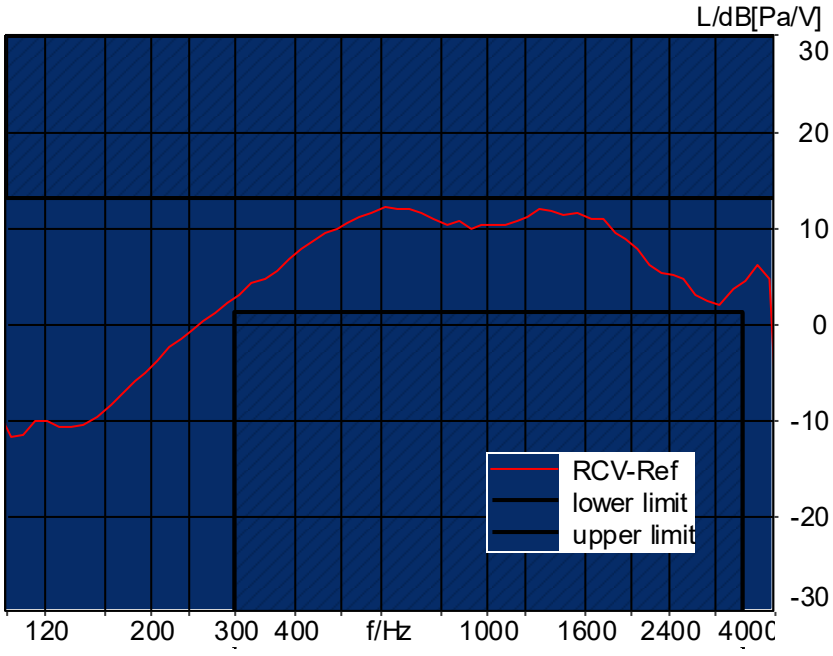
Used Setting	TIA5050

MFE VI Settings

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

5.3 Frequency Response 2N FF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Absolute minimal distance
0.96 dB at 611.7 Hz Ok

Ok

2026/6/6 3:37 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	136.2000 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(2#)

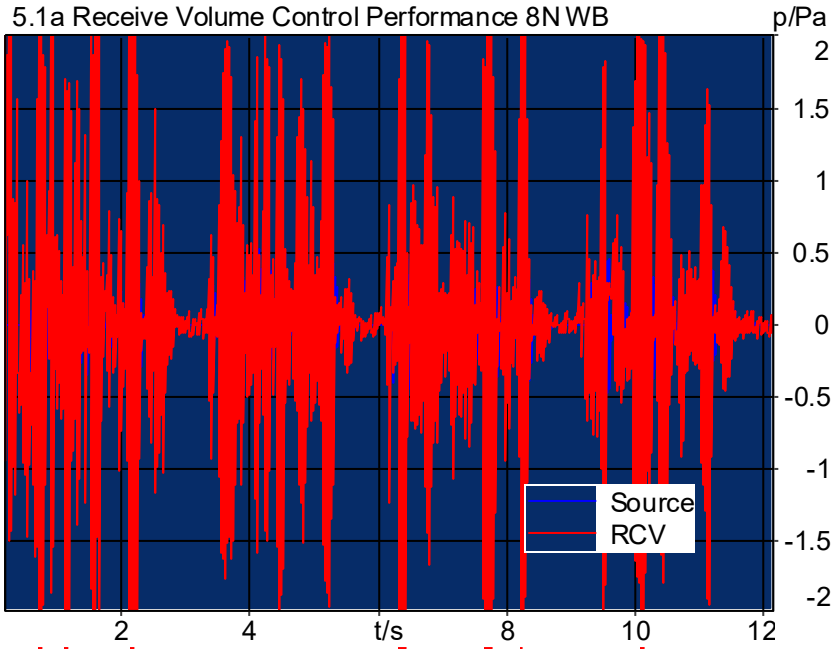
Measurement Object	Ti-CC26050303-LTEB2

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.52	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.78	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.29	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.89	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.92	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.14	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.33	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.75	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.65	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.30	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.46	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.23	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.75	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.02	Ti-CC26050303-LTEB2
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.81	Ti-CC26050303-LTEB2
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.92	Ti-CC26050303-LTEB2

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	84.52 dB[SPL]	84.44%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

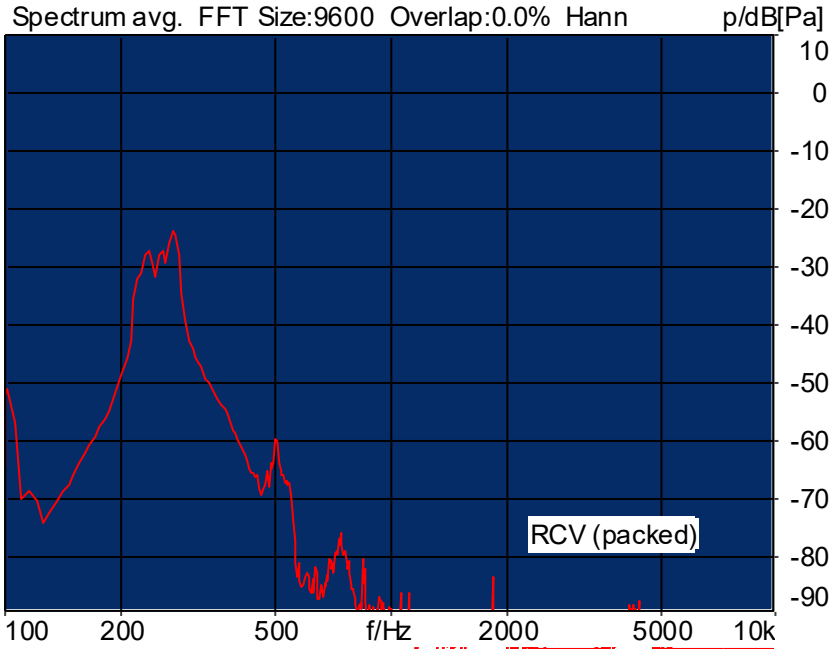
Used Setting	TIA5050

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 8N EVS-WB-24.4



Distortion (Noise) RCV (packed): 28.78 dB (3.64%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

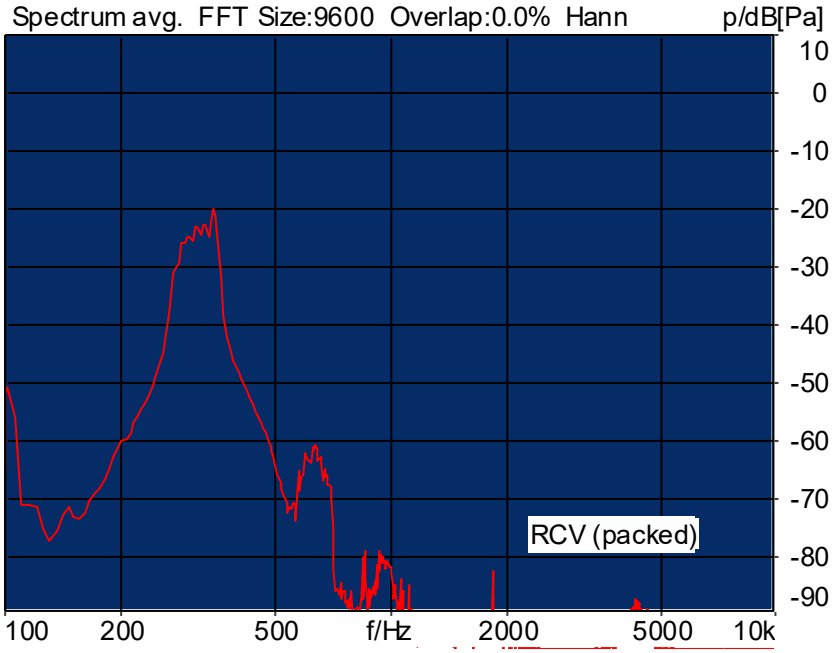
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.29 dB (2.73%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

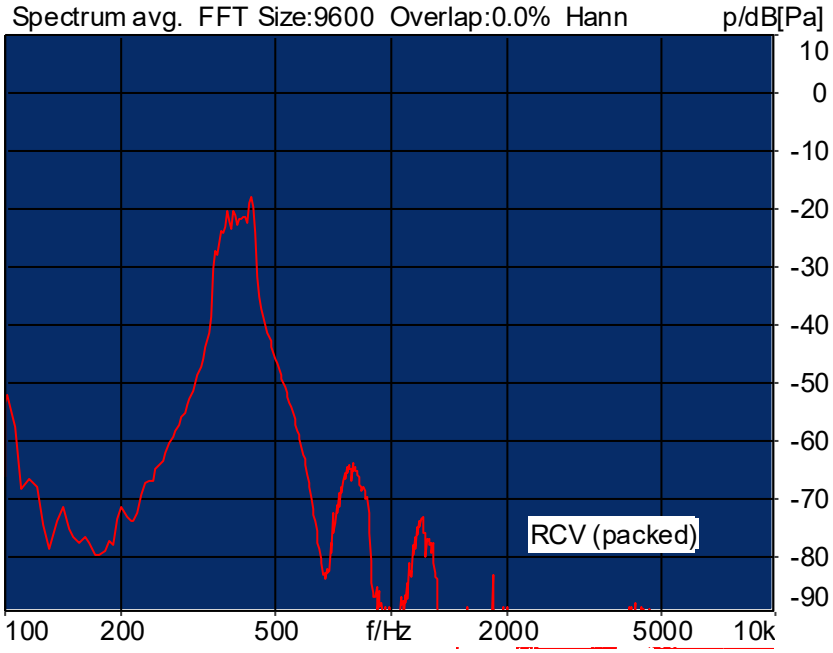
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 29.89 dB (3.20%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

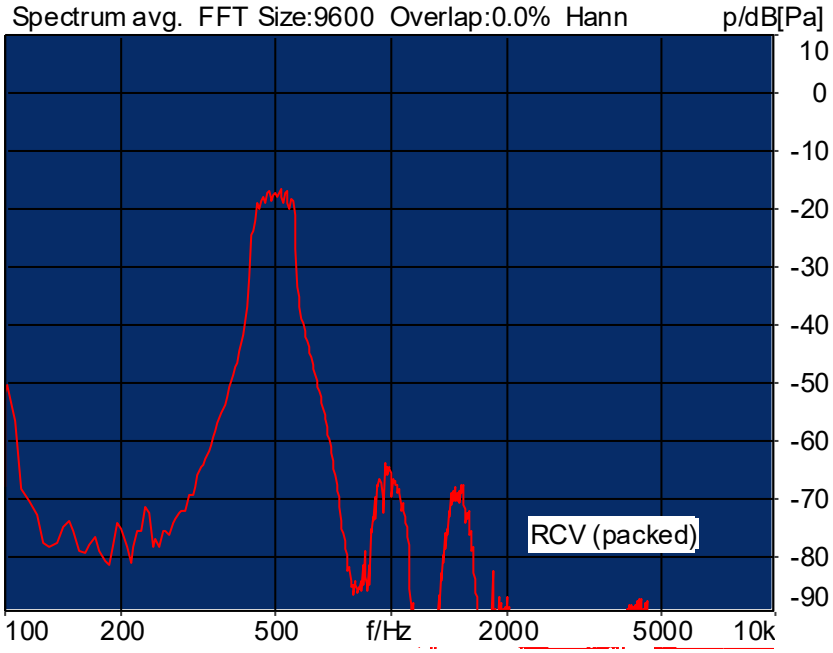
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.92 dB (2.54%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

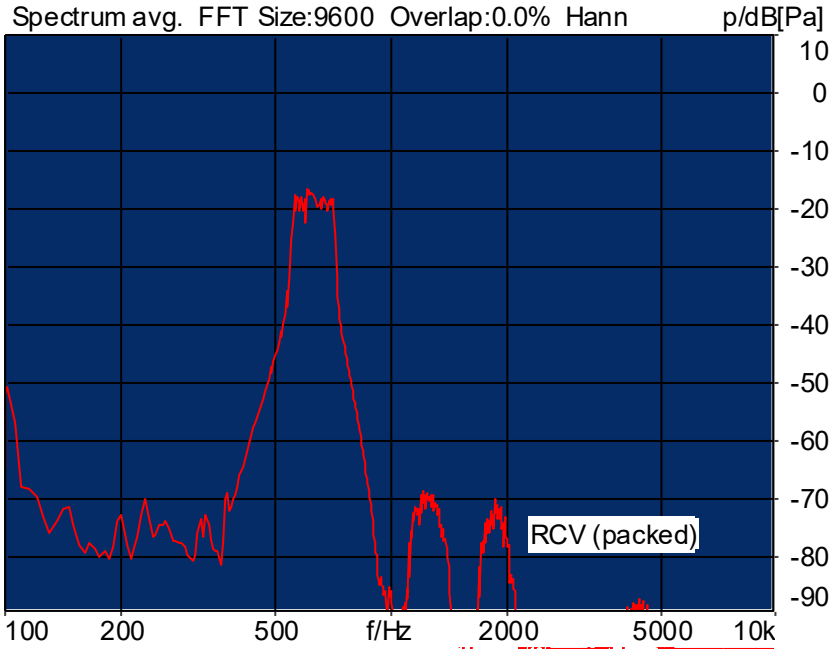
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.14 dB (2.77%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

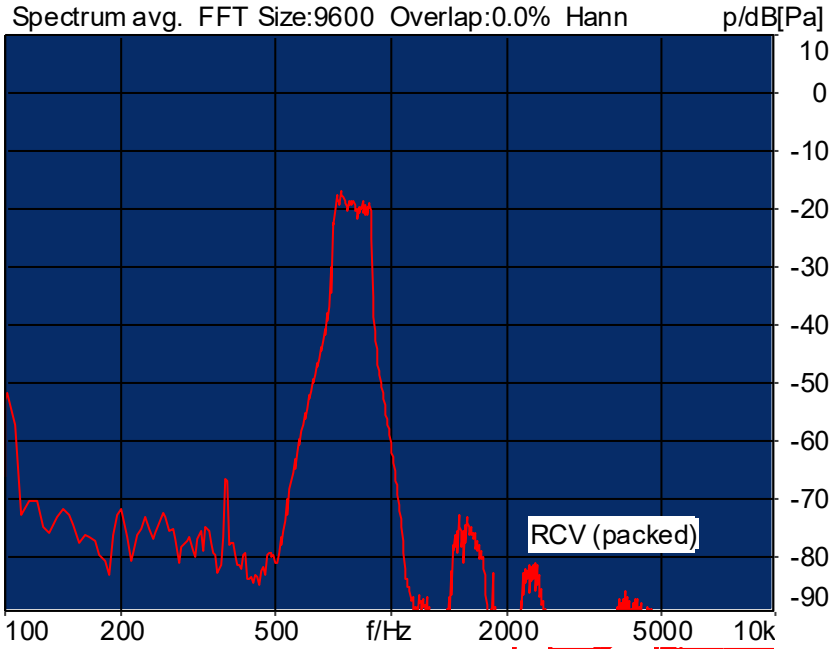
Used Setting	TIA5050

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-24.4



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

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

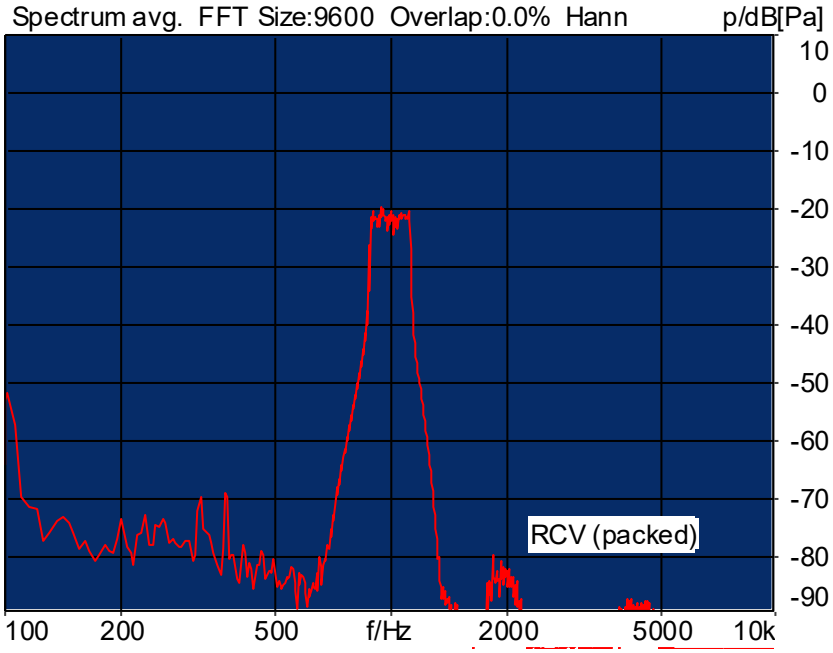
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.75 dB (2.90%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

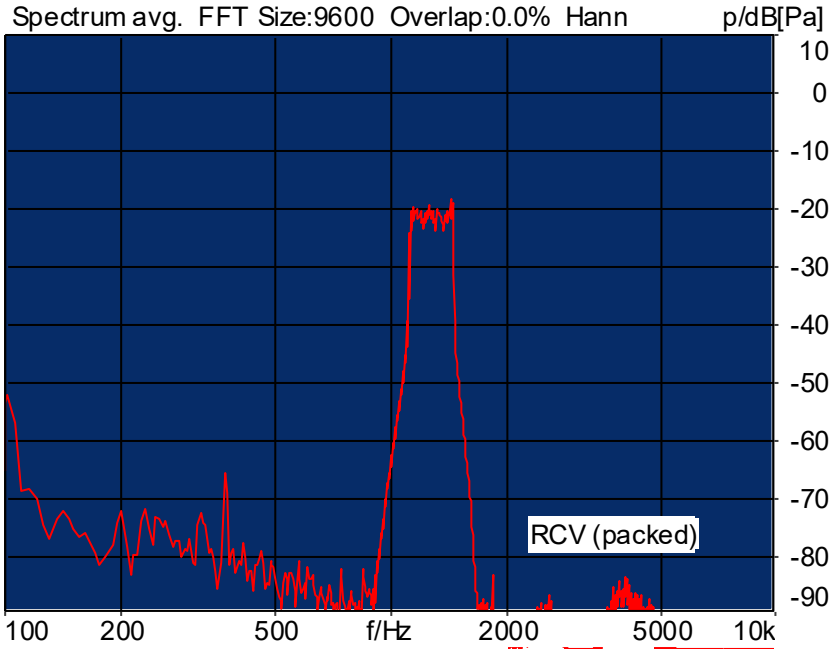
Used Setting	TIA5050

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-24.4



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

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

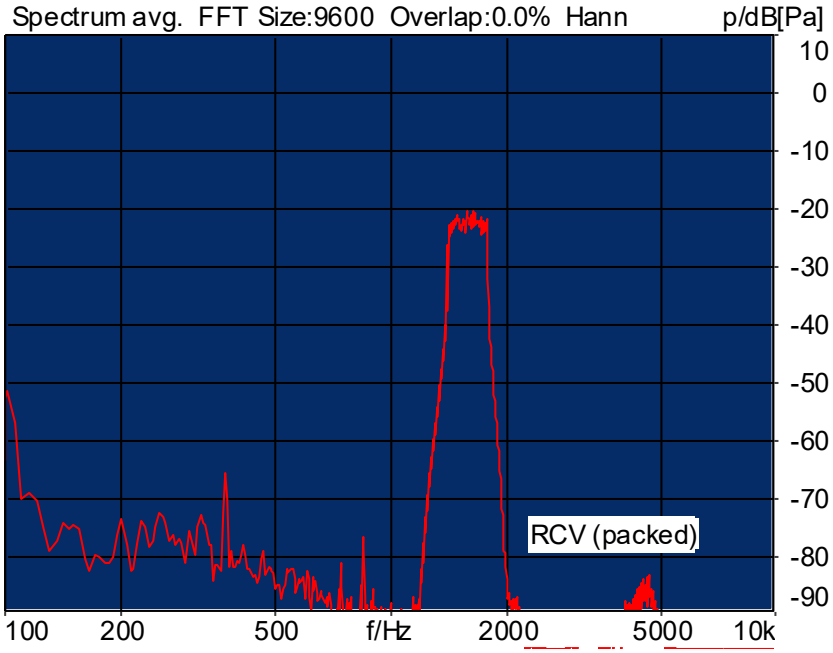
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.30 dB (2.72%) Ok

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

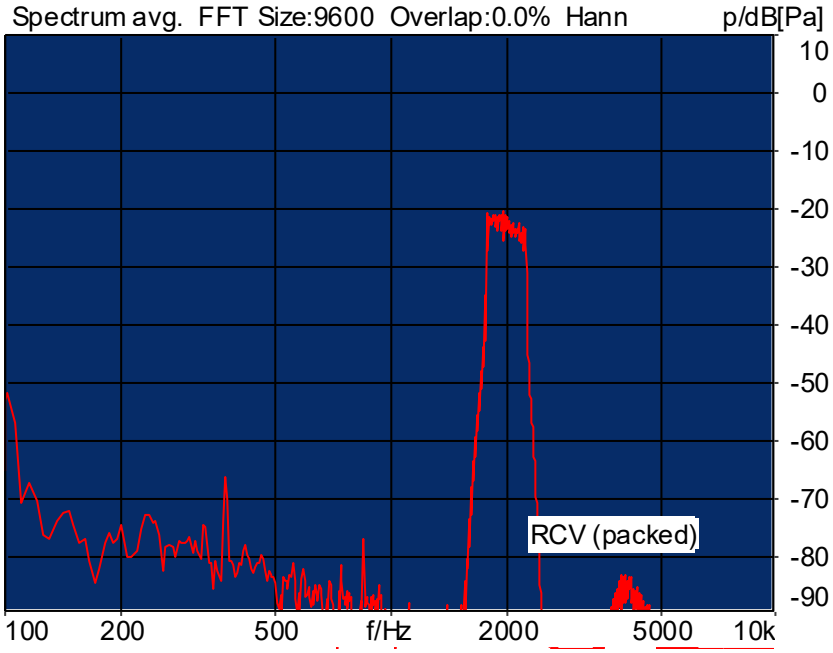
Used Setting	TIA5050

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-24.4



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

Ok

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Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

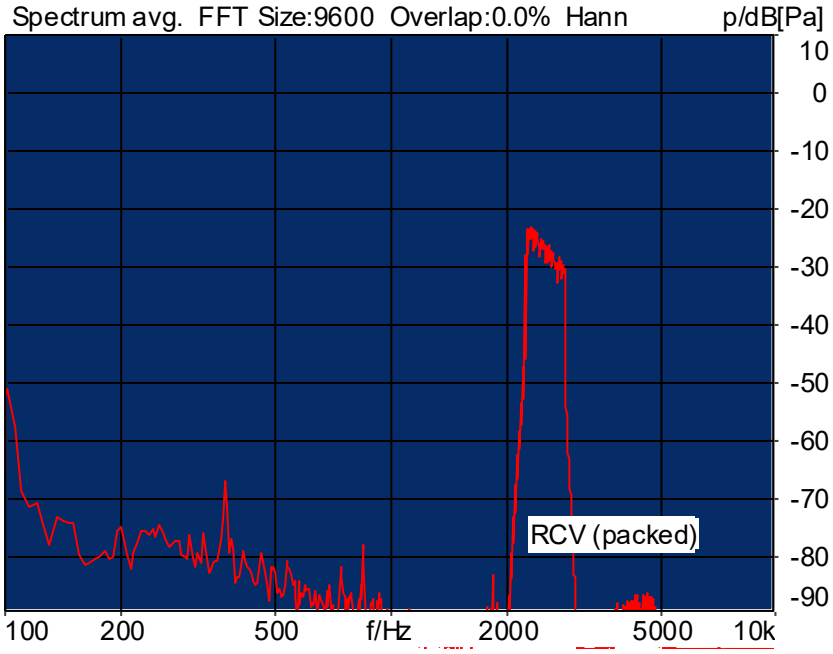
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.23 dB (1.54%) Ok

Ok

2026/6/5 12:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

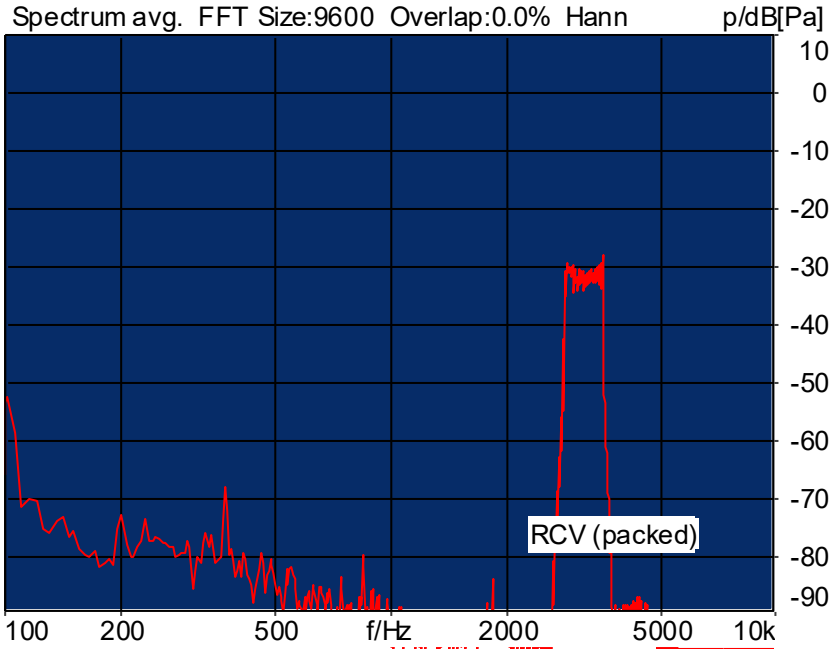
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 35.75 dB (1.63%) Ok

Ok

2026/6/5 12:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

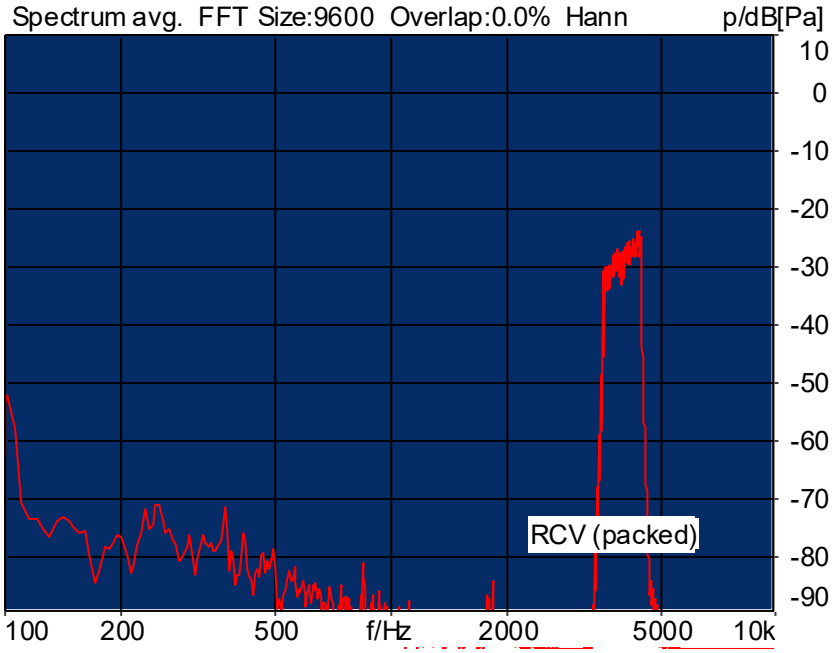
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.02 dB (1.58%) Ok

Ok

2026/6/5 12:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

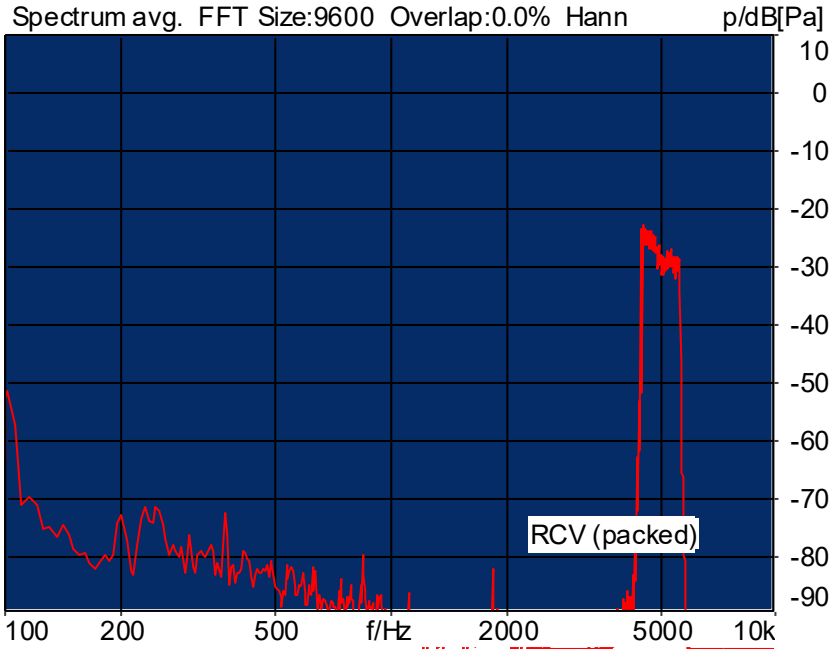
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 42.81 dB (0.72%) Ok

Ok

2026/6/5 12:20 ACQUA 6.2.100

Limits

lower
20.00 dB

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	176.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

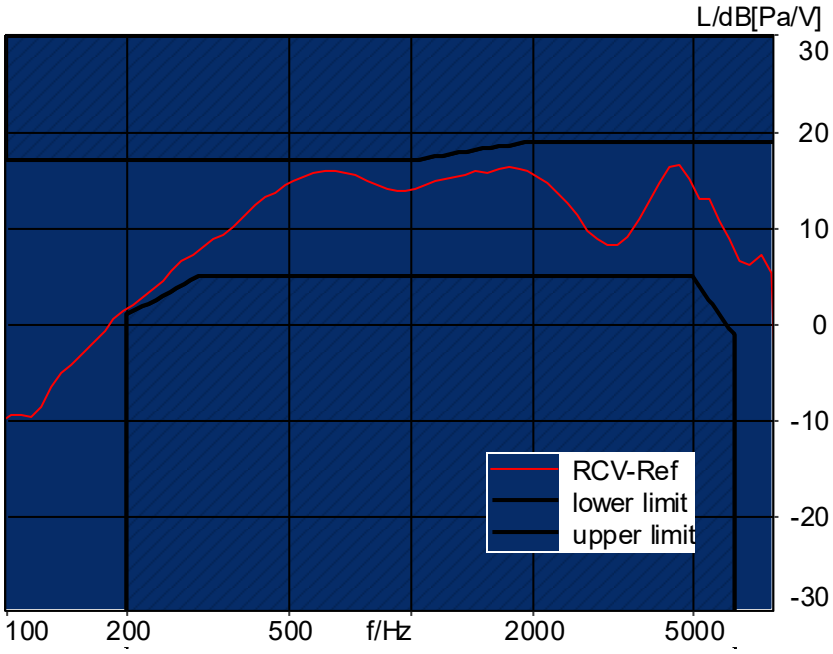
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.92 dB at 611.7 Hz Ok

Ok

2026/6/5 12:46 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	176.3000 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(3#)

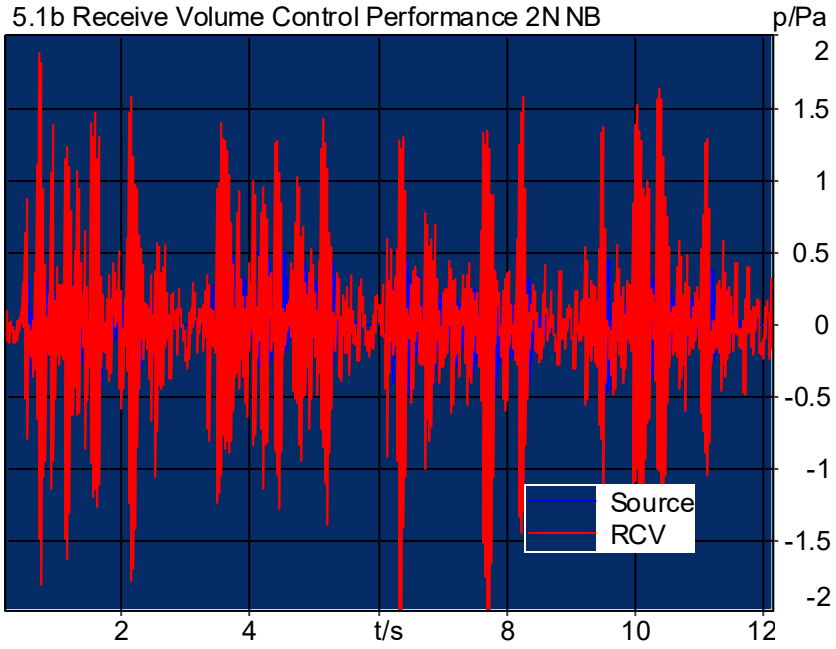
Measurement Object	Ti-CC26050303-LTEB4

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.40	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.80	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.51	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.48	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.38	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.85	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.75	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.14	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.78	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.54	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.00	Ti-CC26050303-LTEB4
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	0.90	Ti-CC26050303-LTEB4

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.40 dB[SPL]	80.76%	Ok

Ok

2026/6/6 3:39 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

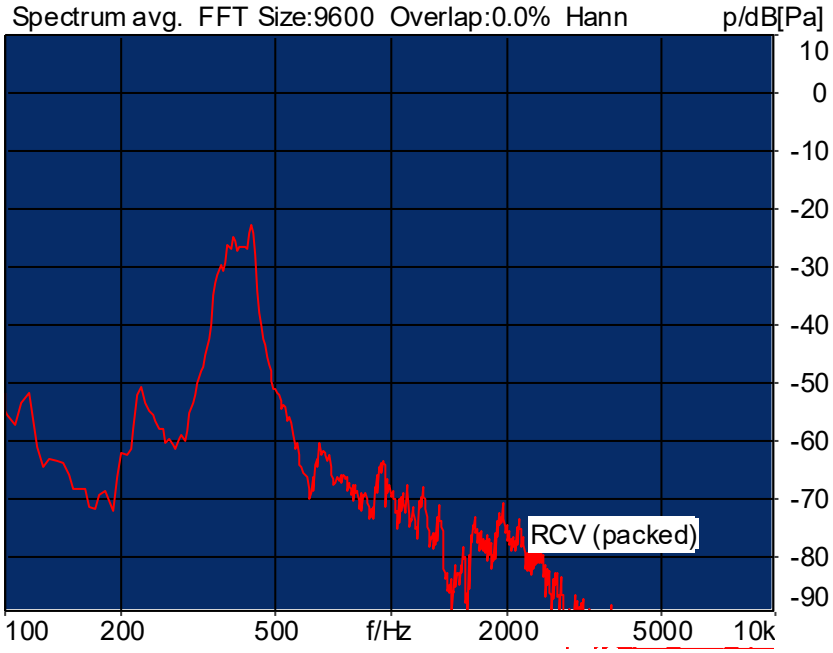
Used Setting	TIA5050

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 2N EVS-NB-5.9



Distortion (Noise) RCV (packed): 27.80 dB (4.08%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

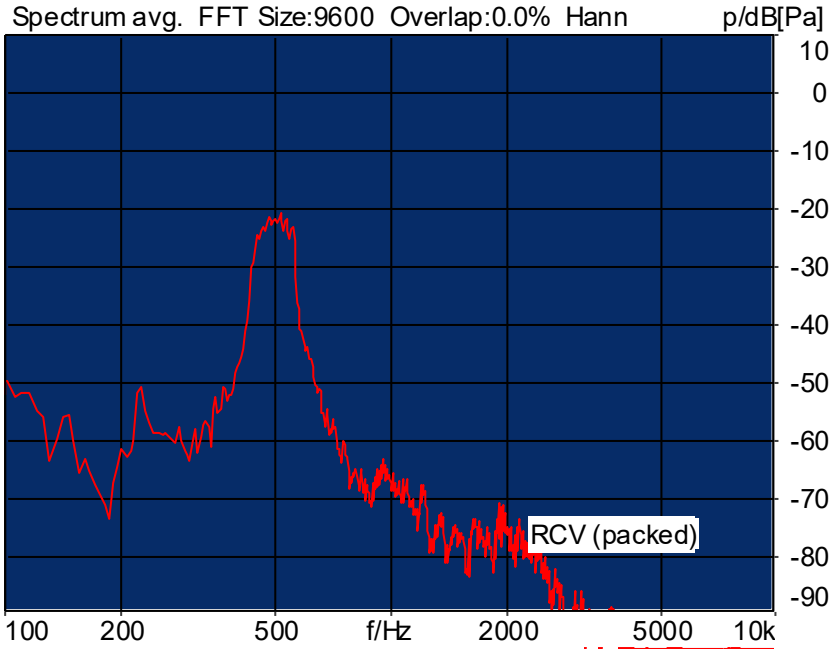
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 27.51 dB (4.21%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

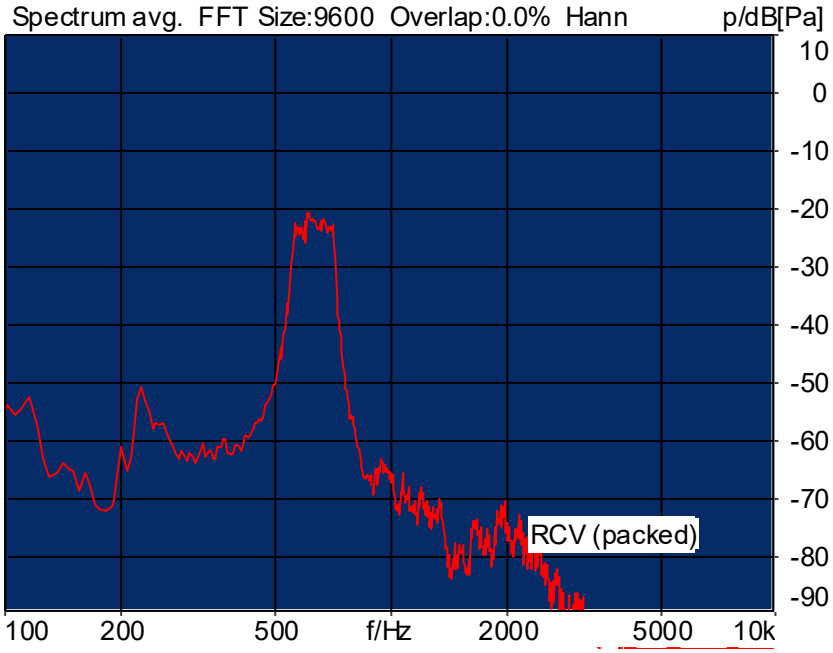
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 30.48 dB (2.99%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

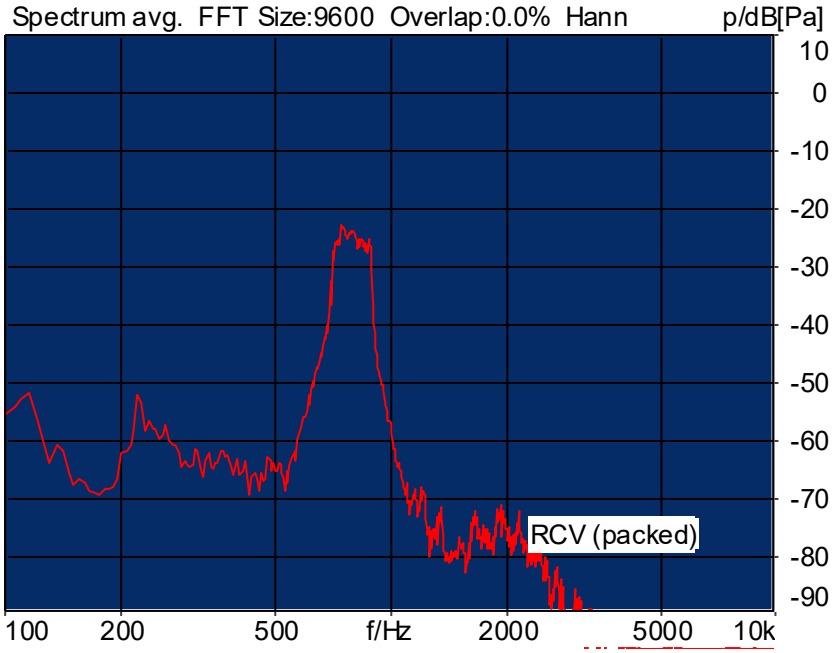
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 26.38 dB (4.80%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

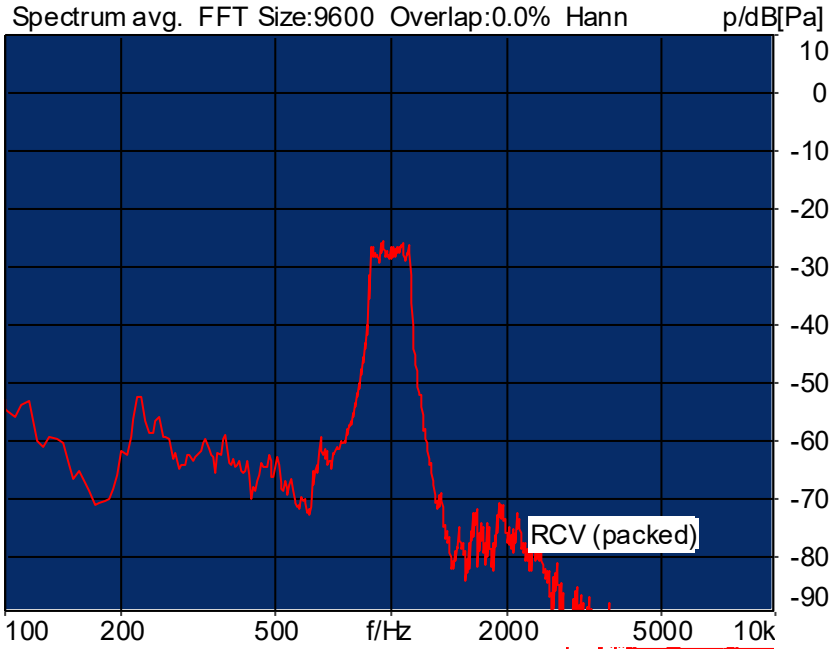
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 25.85 dB (5.10%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

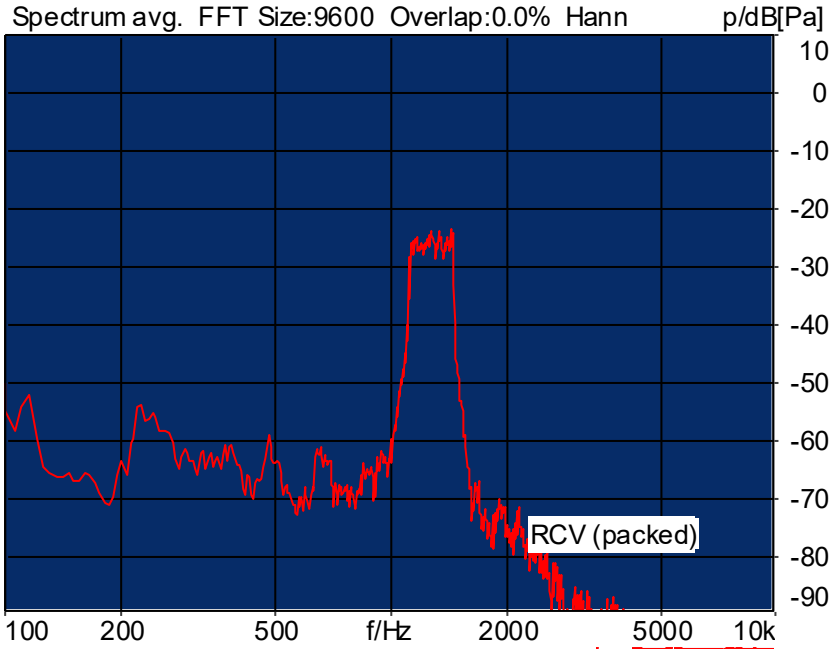
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 21.75 dB (8.17%) Ok

Ok

2026/6/6 3:41 ACQUA 6.2.100

Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

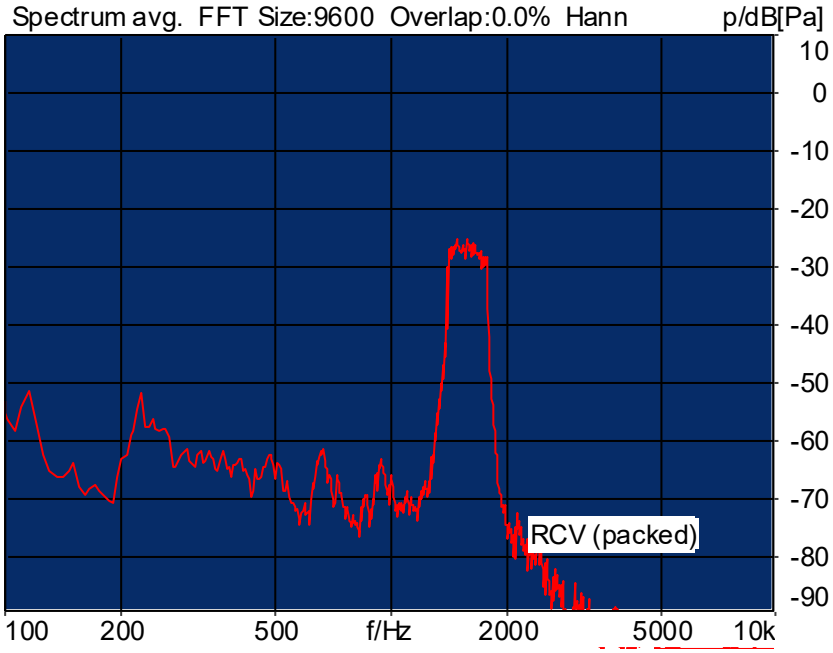
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 29.14 dB (3.49%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

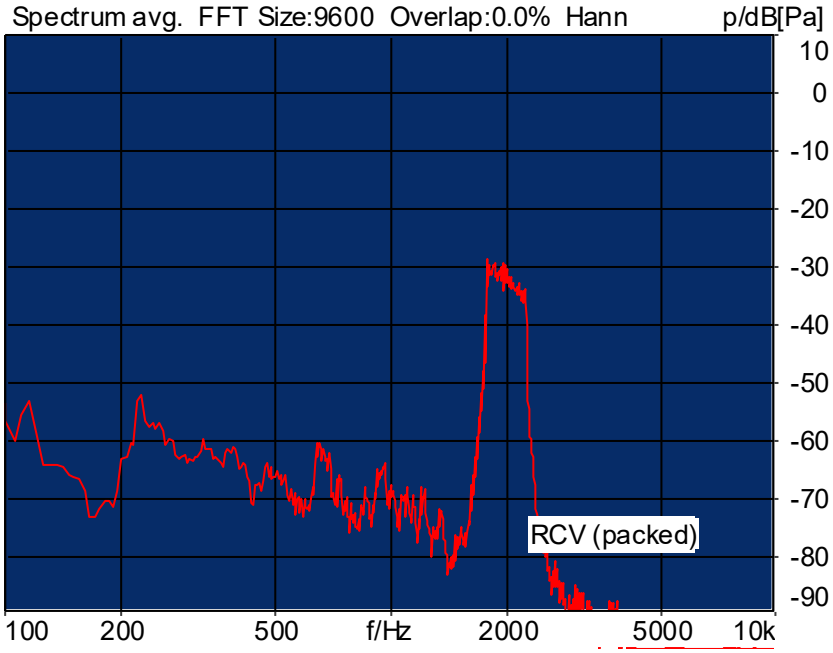
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 26.78 dB (4.58%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

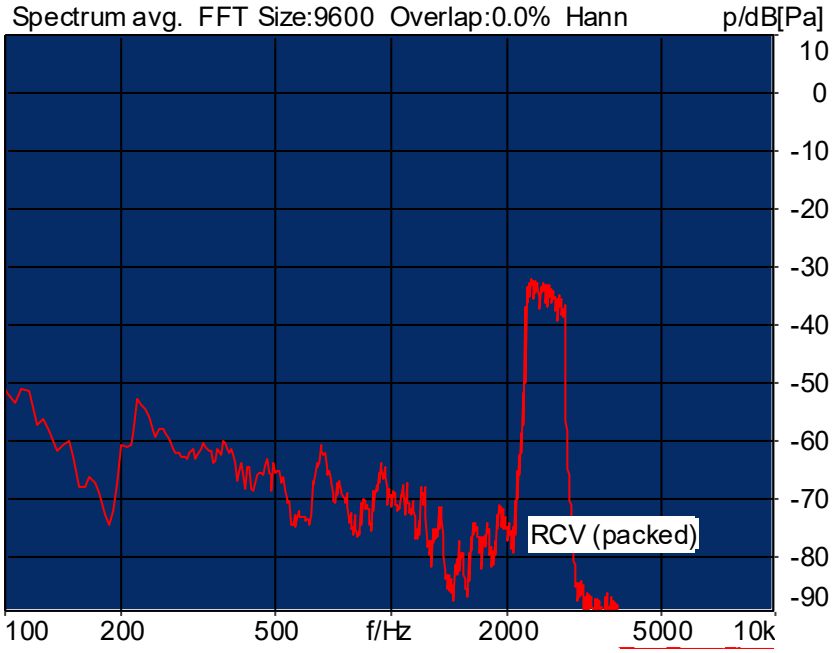
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 28.54 dB (3.74%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

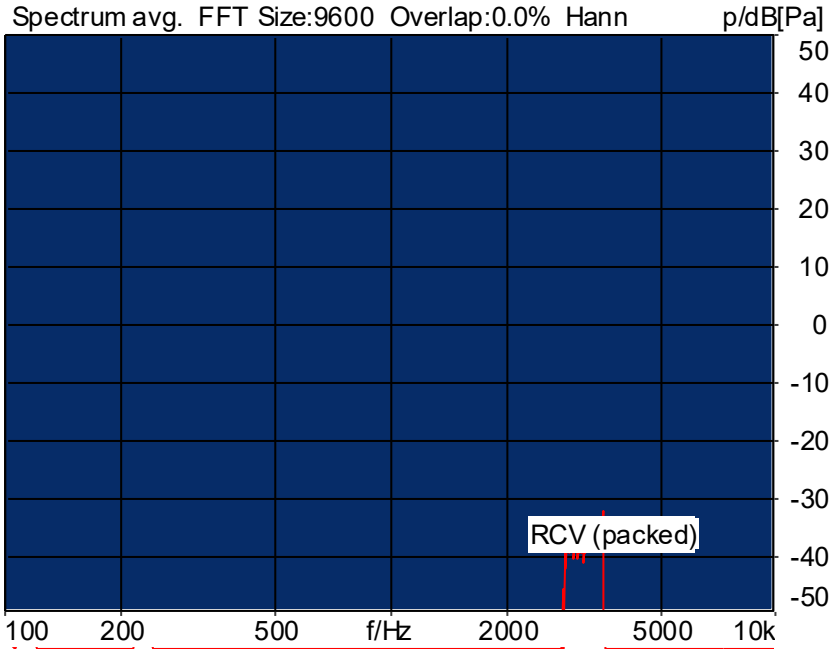
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 27.00 dB (4.47%) Ok

Ok

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Limits

lower
20.00 dB

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	191.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

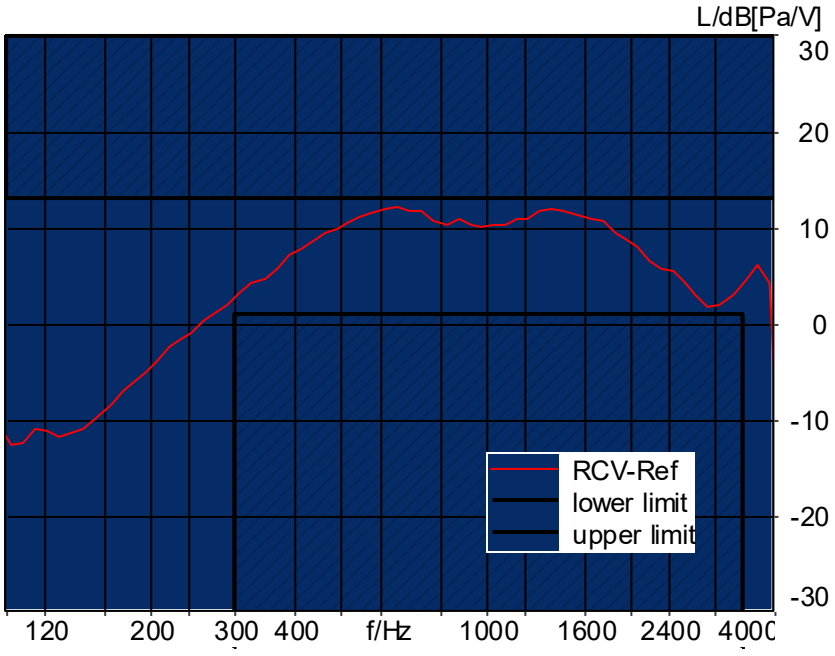
Used Setting	TIA5050

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-5.9



Absolute minimal distance
0.90 dB at 649.1 Hz Ok

Ok

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Limits

lower
Fit into tolerance

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	191.3000 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(4#)

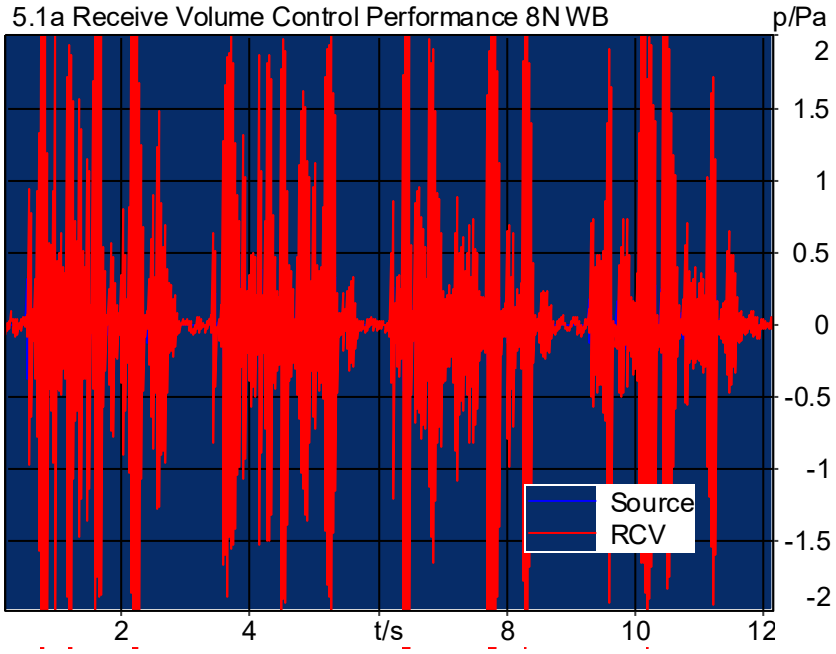
Measurement Object	Ti-CC26050303-LTEB4

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.93	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.28	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.06	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.18	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.31	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.50	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.91	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.95	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.89	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.32	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.25	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.18	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.31	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.86	Ti-CC26050303-LTEB4
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.02	Ti-CC26050303-LTEB4
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	0.83	Ti-CC26050303-LTEB4

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	84.93 dB[SPL]	82.29%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

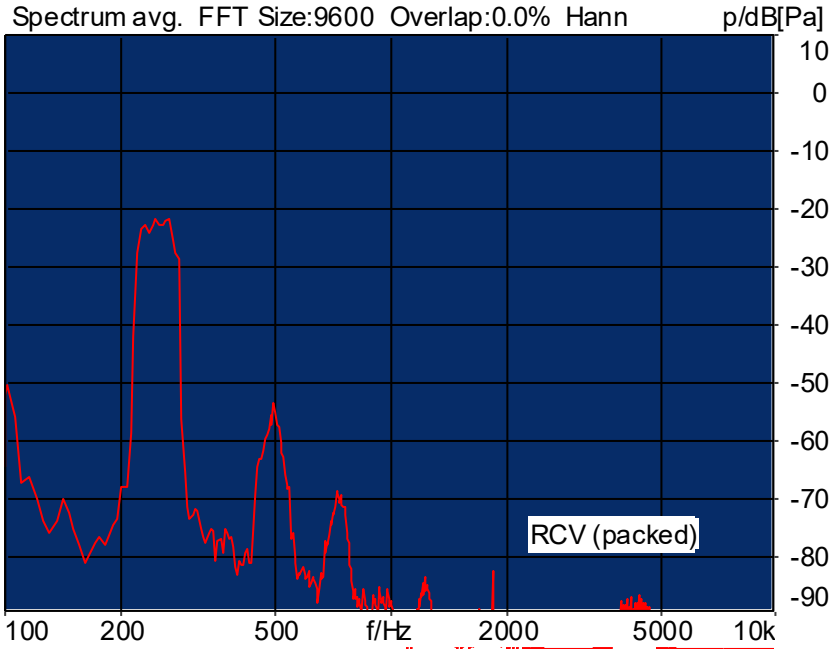
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.28 dB (1.53%) Ok

Ok

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Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

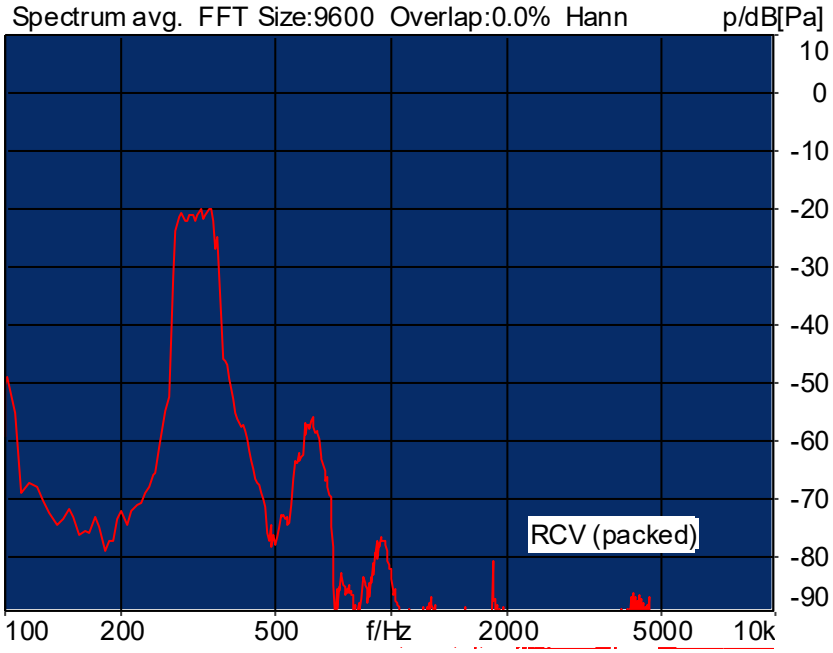
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 37.06 dB (1.40%) Ok

Ok

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Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

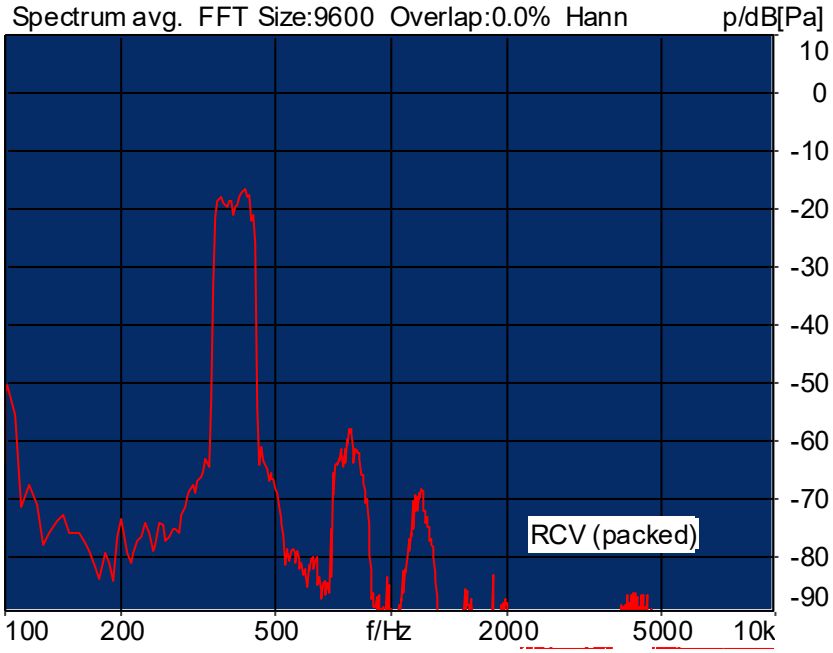
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 41.18 dB (0.87%) Ok

Ok

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Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

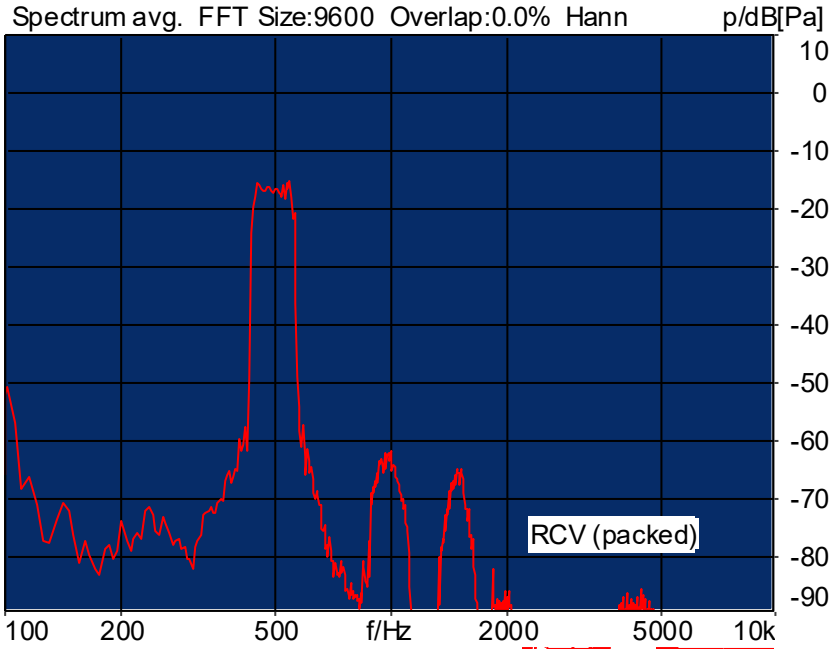
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 43.31 dB (0.68%) Ok

Ok

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Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

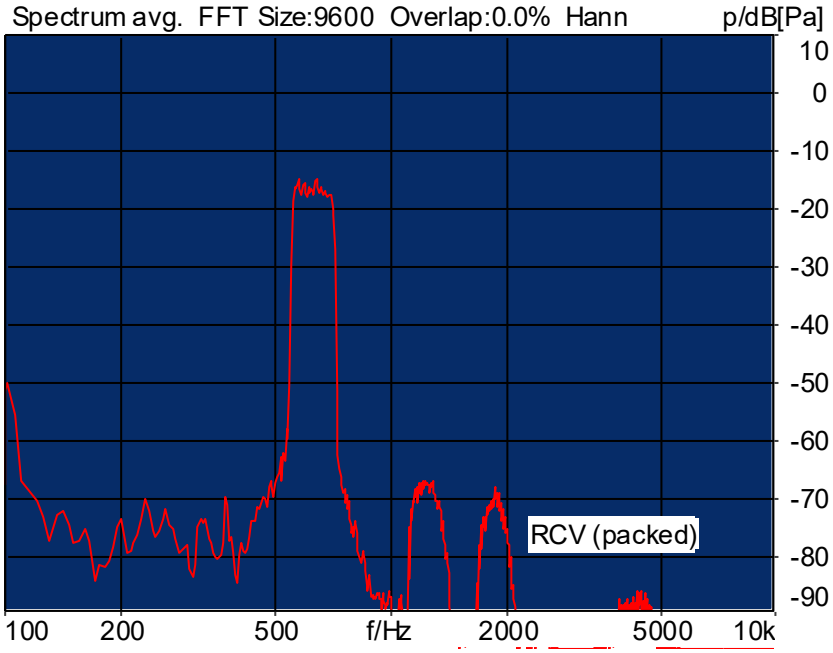
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 46.50 dB (0.47%) Ok

Ok

2026/6/5 12:10 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

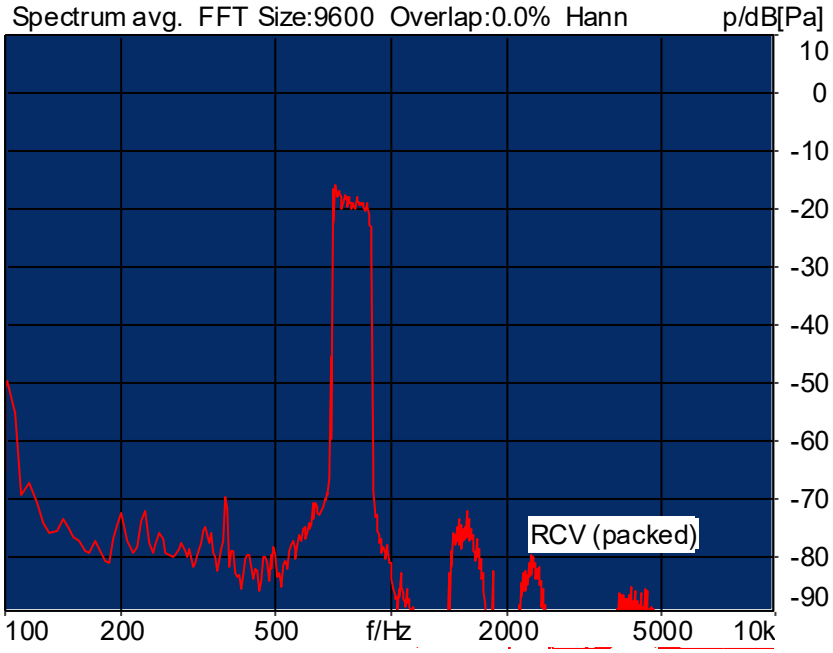
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 50.91 dB (0.28%) Ok

Ok

2026/6/5 12:10 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

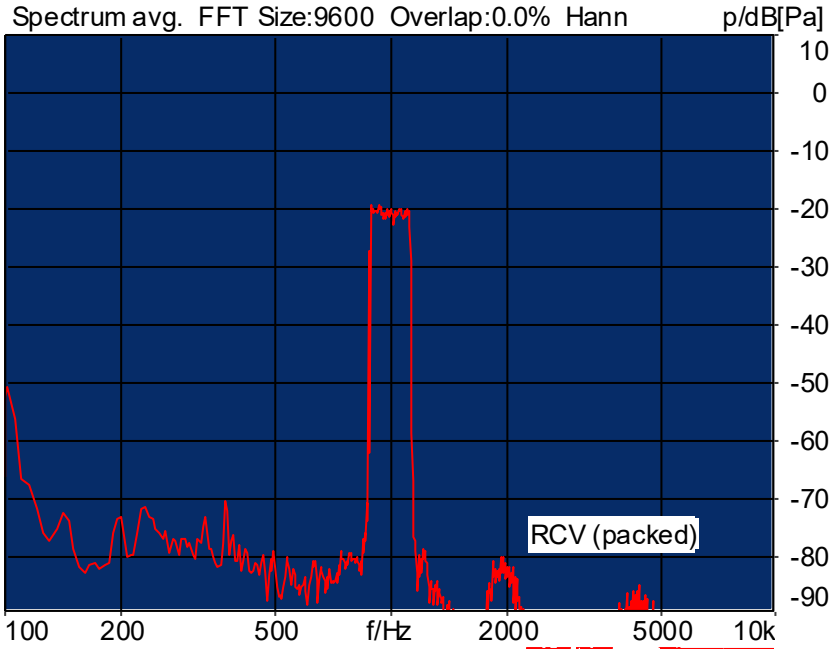
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 52.95 dB (0.23%) Ok

Ok

2026/6/5 12:11 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

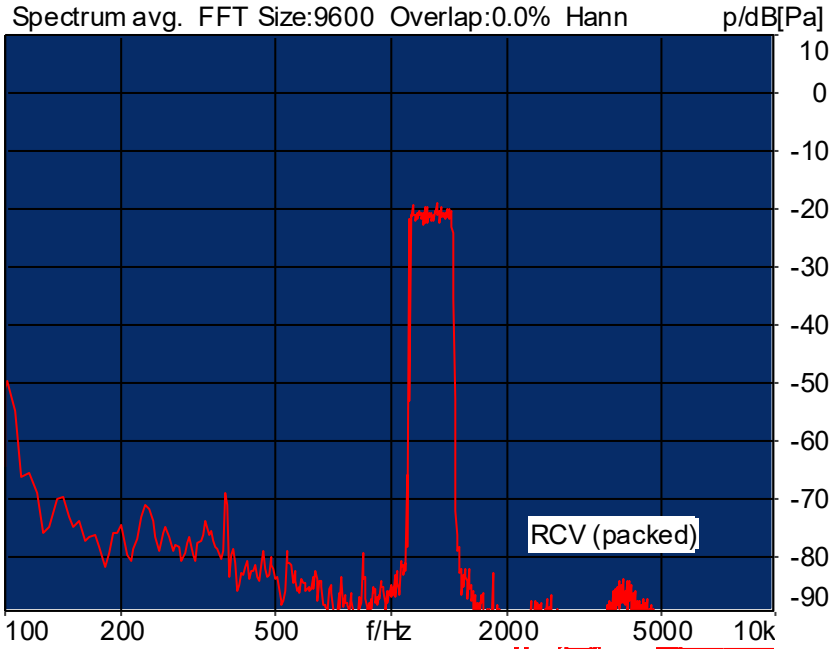
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.89 dB (2.54%) Ok

Ok

2026/6/5 12:11 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

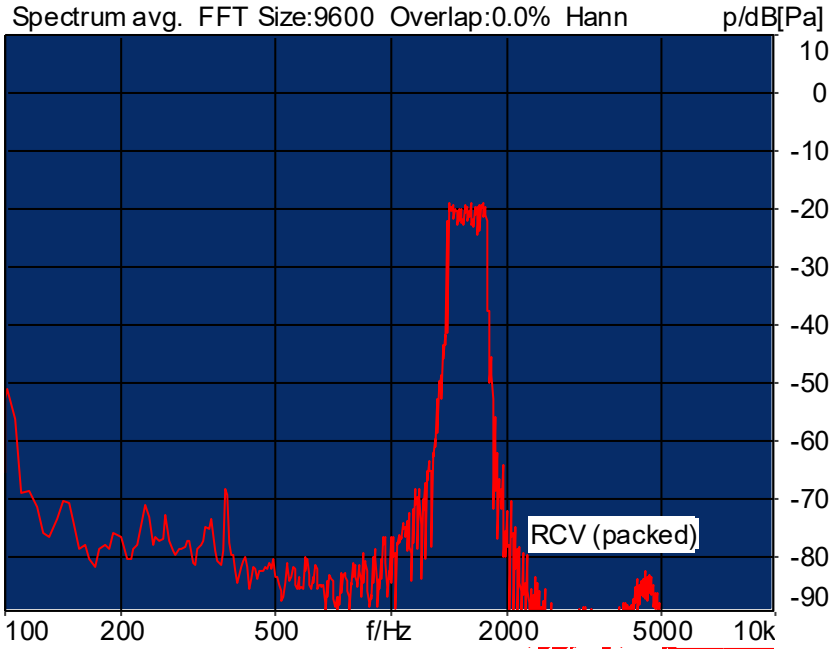
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 34.32 dB (1.92%) Ok

Ok

2026/6/5 12:11 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

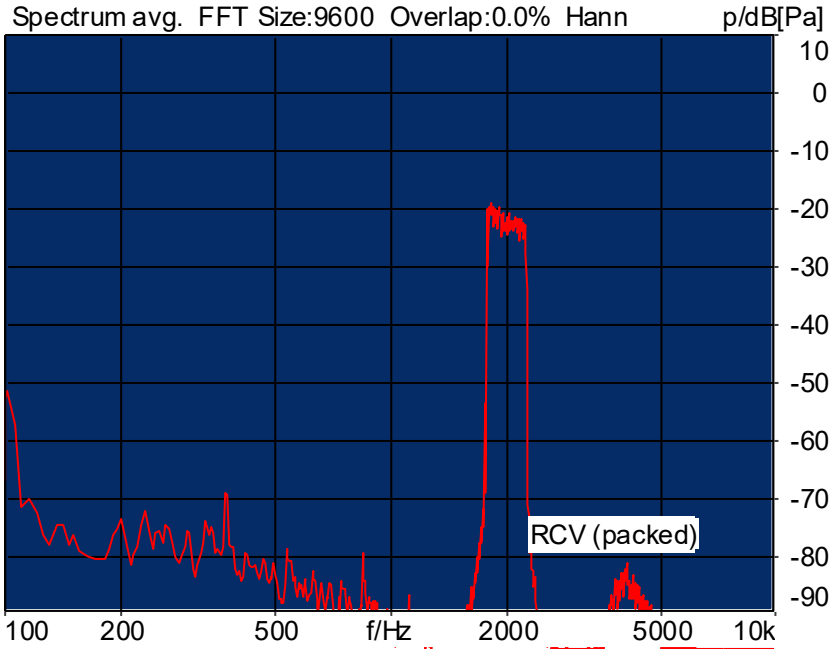
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 54.25 dB (0.19%) Ok

Ok

2026/6/5 12:12 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

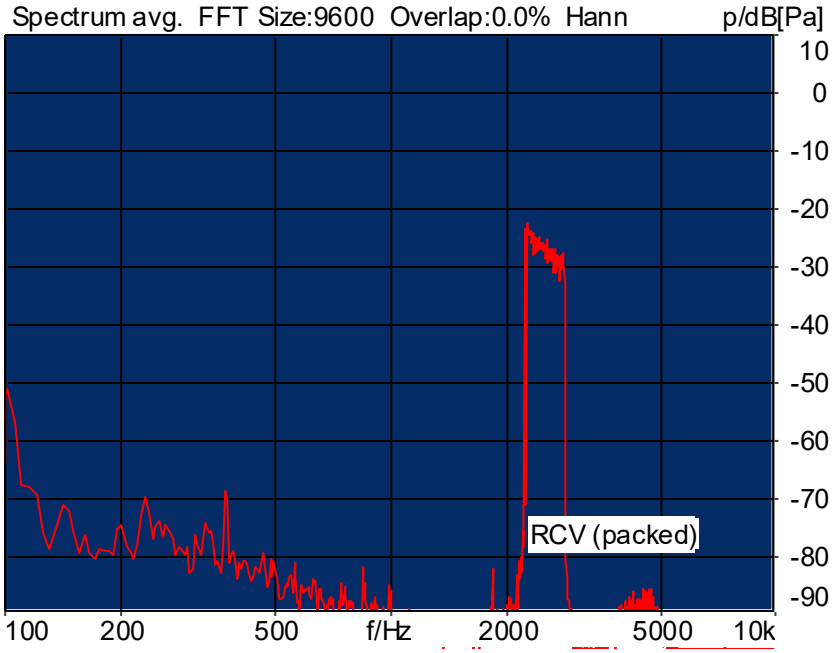
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 52.18 dB (0.25%) Ok

Ok

2026/6/5 12:12 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

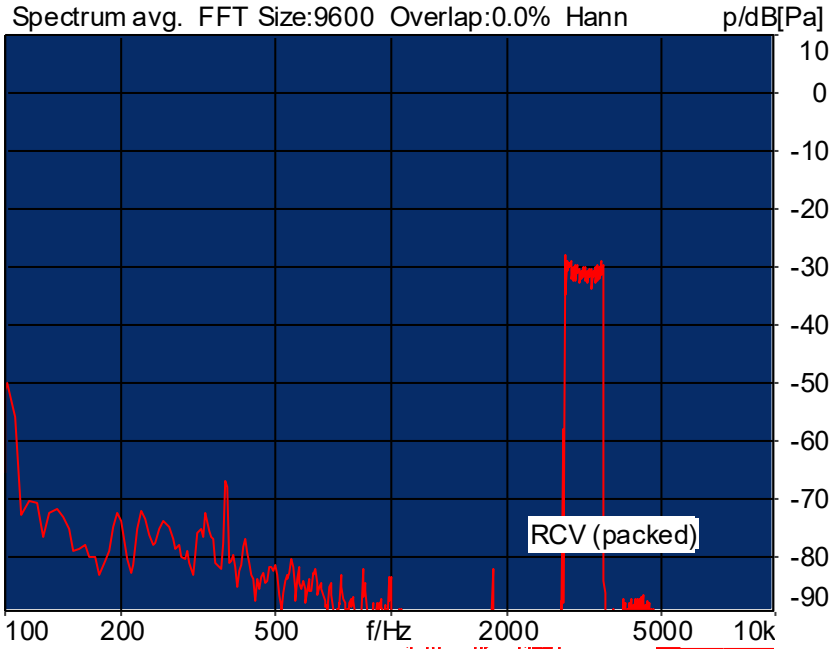
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 49.31 dB (0.34%) Ok

Ok

2026/6/5 12:12 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

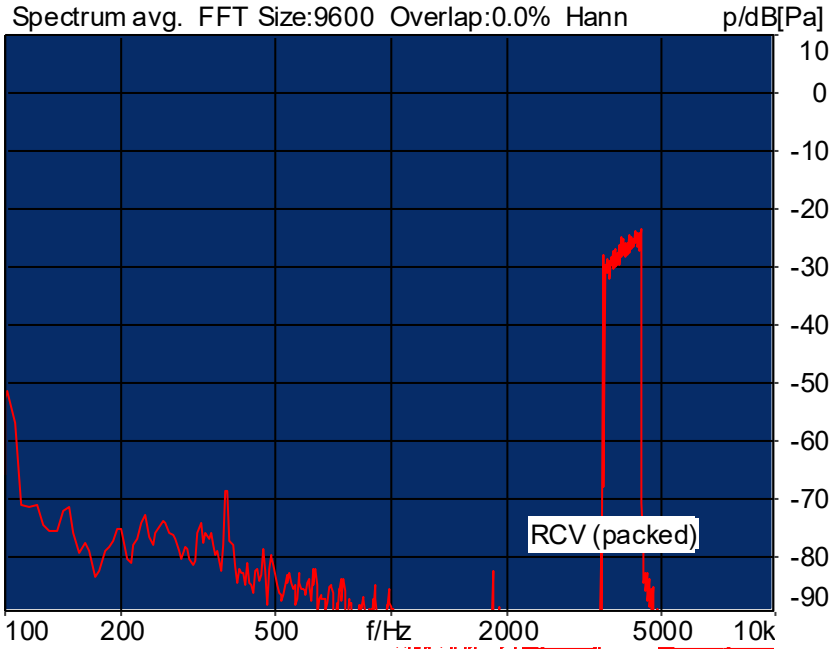
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 54.86 dB (0.18%) Ok

Ok

2026/6/5 12:13 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

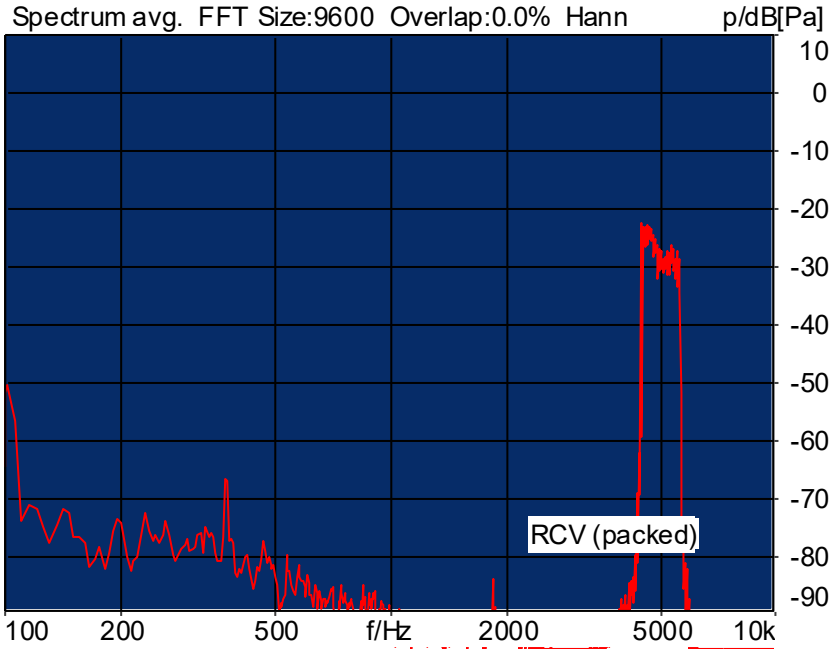
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 49.02 dB (0.35%) Ok

Ok

2026/6/5 12:13 ACQUA 6.2.100

Limits

lower
20.00 dB

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	104.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

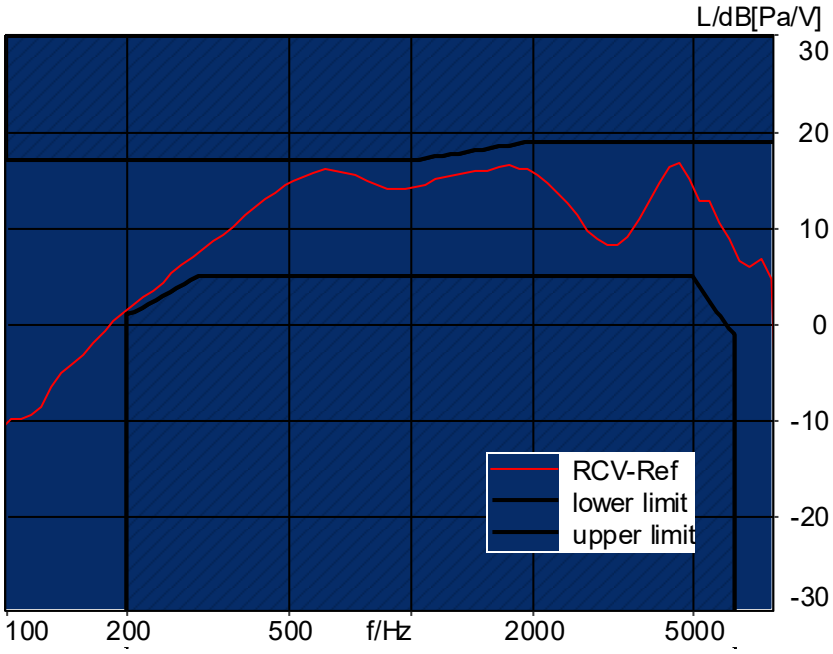
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.83 dB at 205.7 Hz Ok

Ok

2026/6/5 12:14 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	104.5000 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(5#)

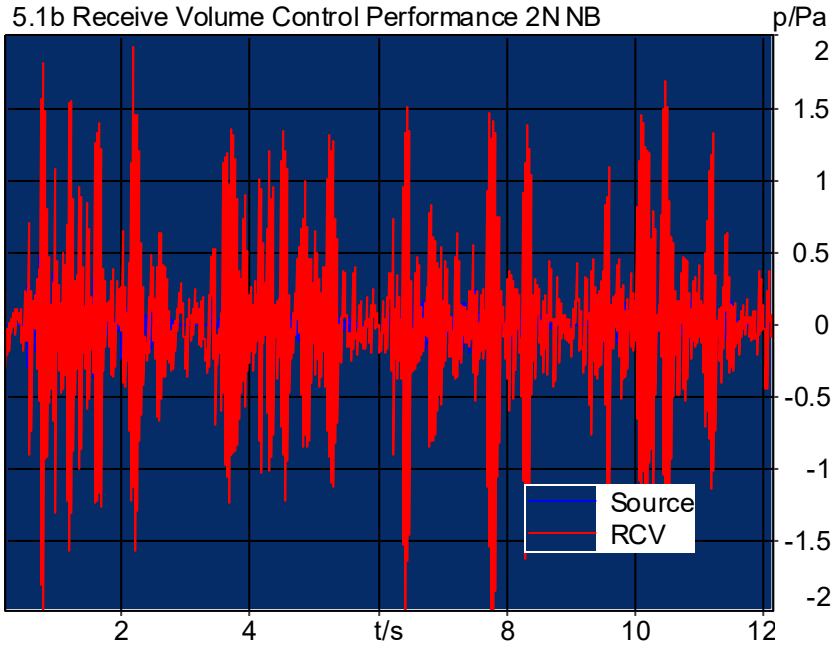
Measurement Object	Ti-CC26050303-LTEB5

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.75	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.01	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.84	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.28	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.12	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.24	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.84	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.80	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.30	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.56	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.27	Ti-CC26050303-LTEB5
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.08	Ti-CC26050303-LTEB5

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.75 dB[SPL]	80.48%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

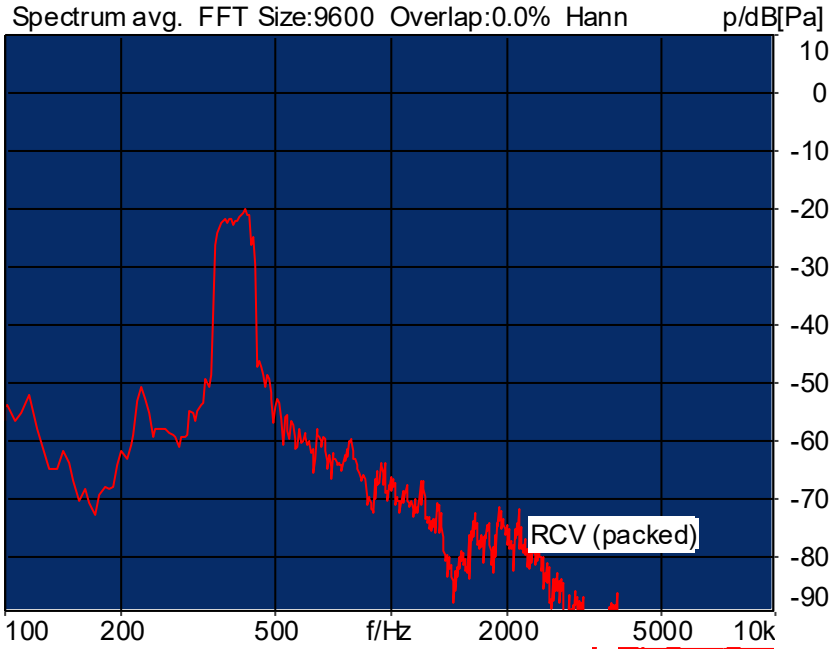
Used Setting	TIA5050

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-5.9



Distortion (Noise) RCV (packed): 32.01 dB (2.51%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

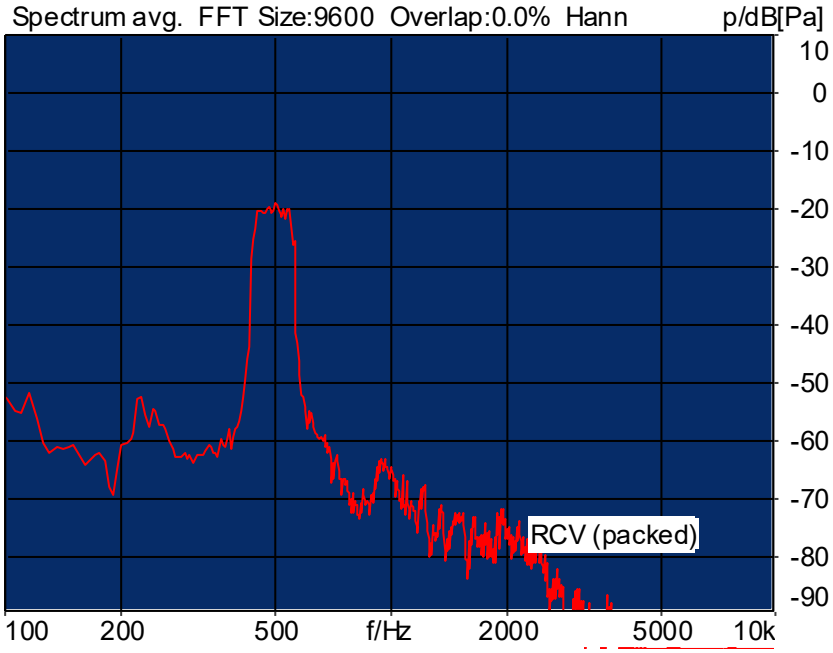
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.84 dB (1.61%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

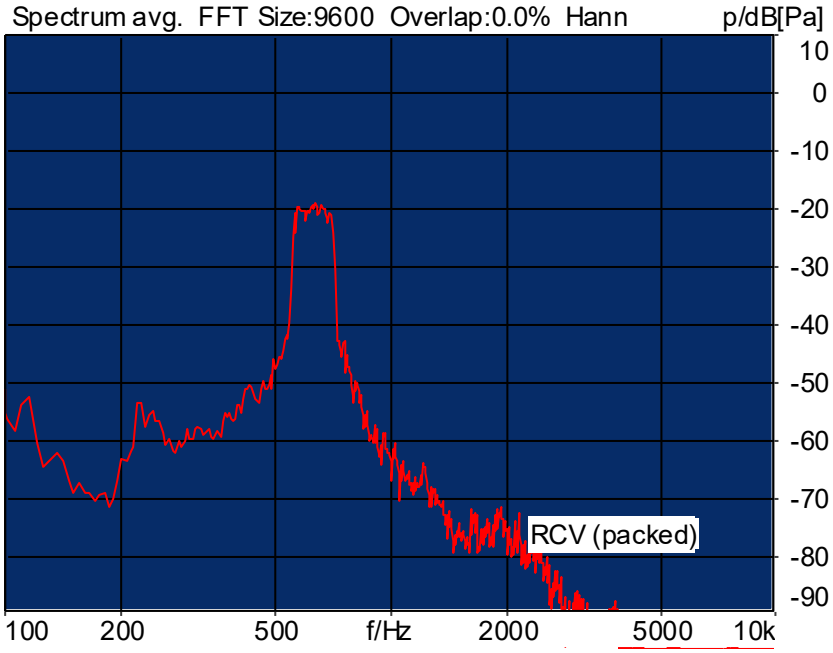
Used Setting	TIA5050

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 EVS-NB-5.9



Distortion (Noise) RCV (packed): 28.28 dB (3.86%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

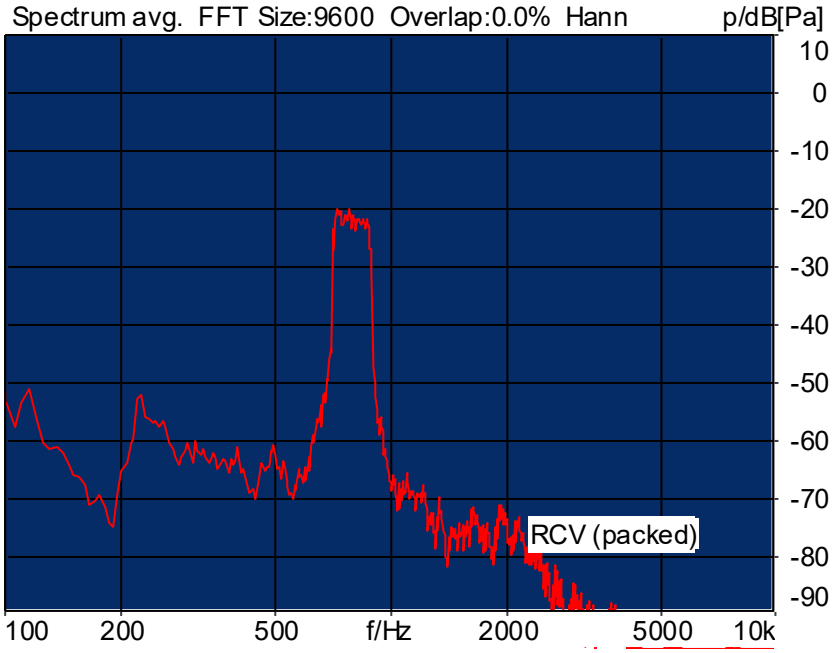
Used Setting	TIA5050

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 EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.12 dB (1.56%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

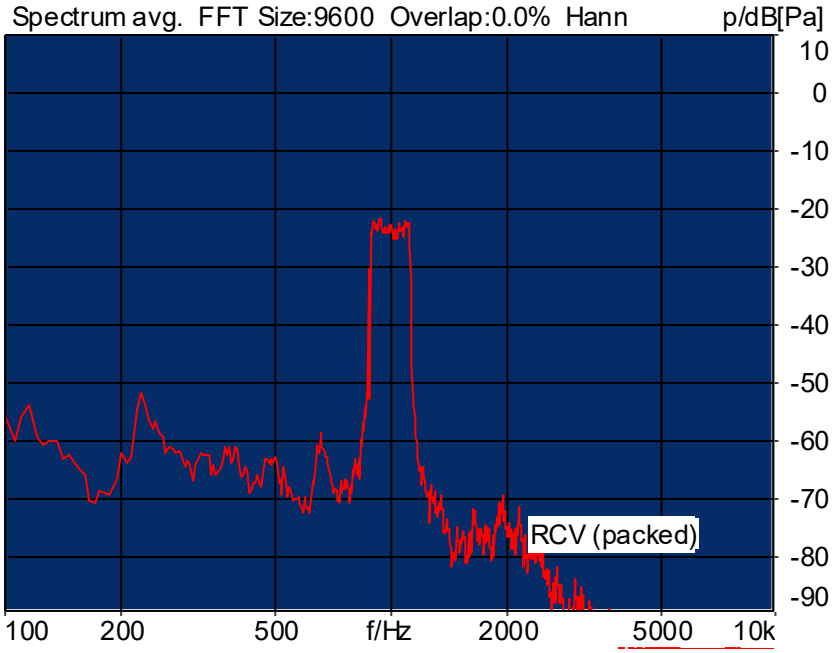
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 37.24 dB (1.37%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

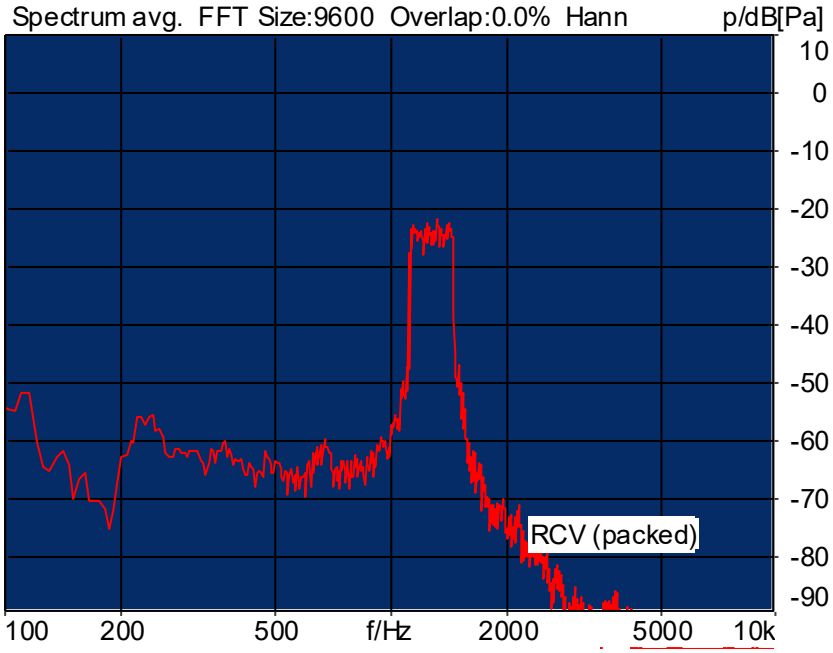
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 26.84 dB (4.55%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

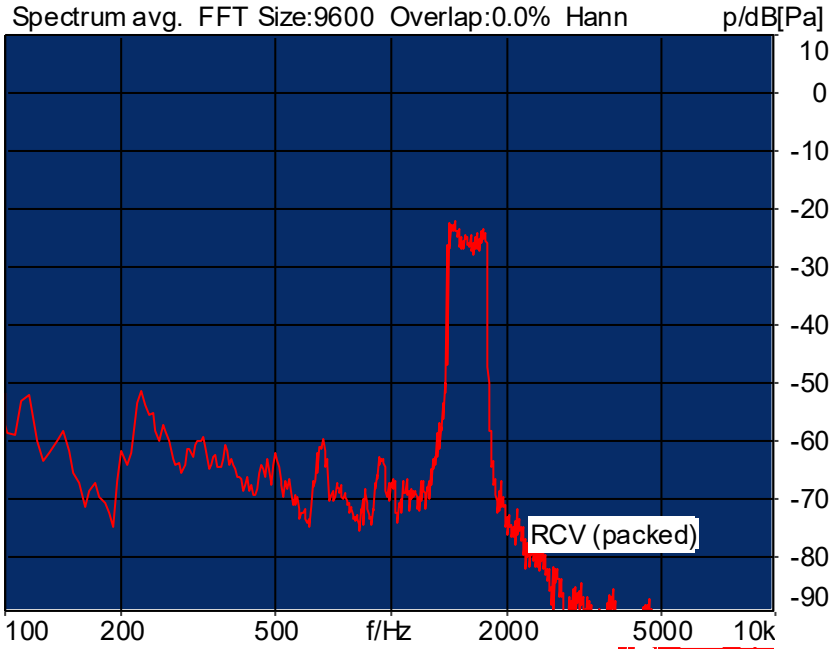
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.80 dB (1.62%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

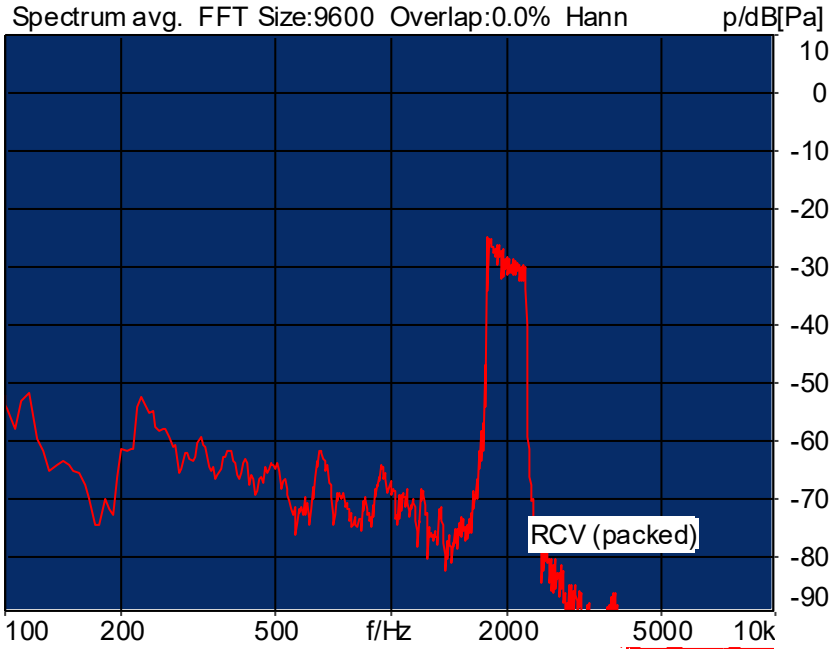
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 34.30 dB (1.93%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

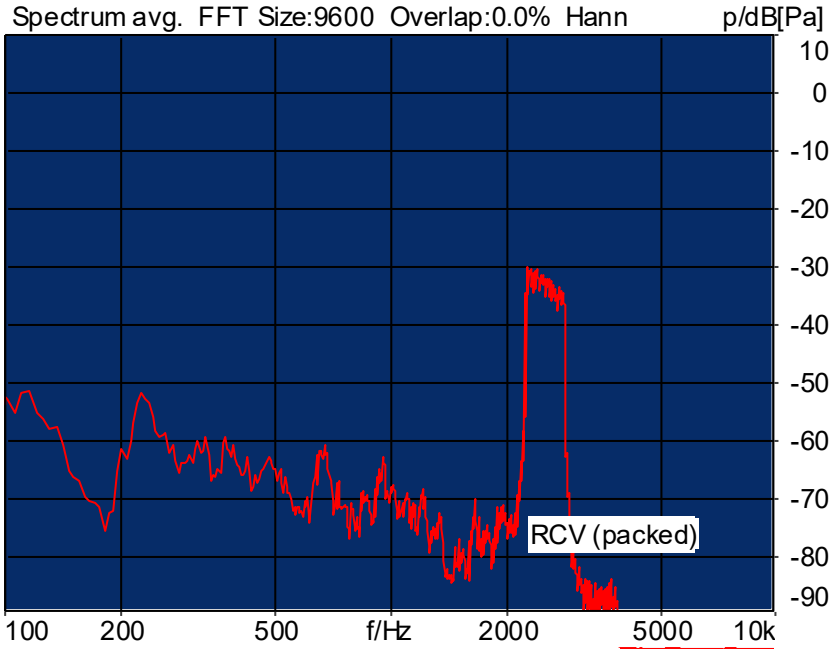
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.56 dB (2.64%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

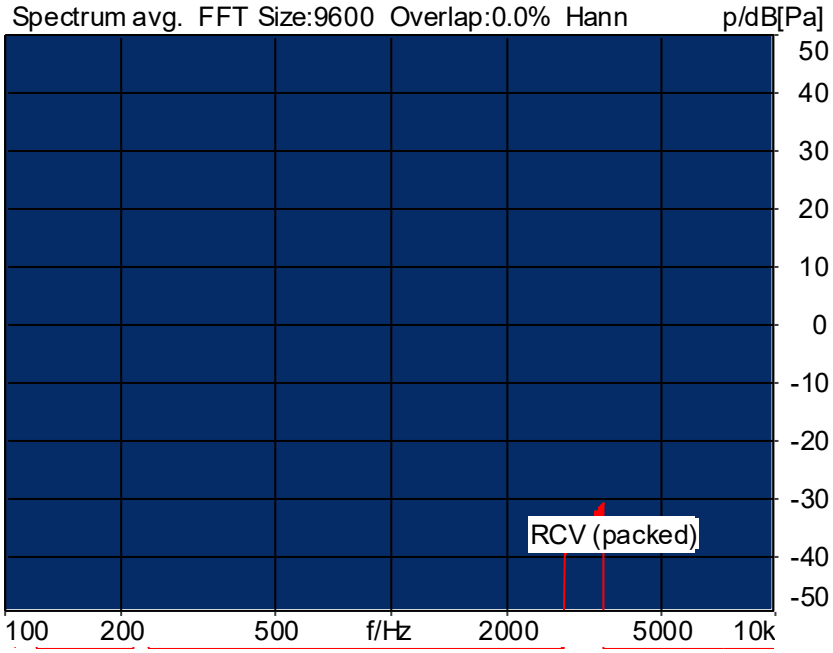
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.27 dB (2.73%) Ok

Ok

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Limits

lower
20.00 dB

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	131.1000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

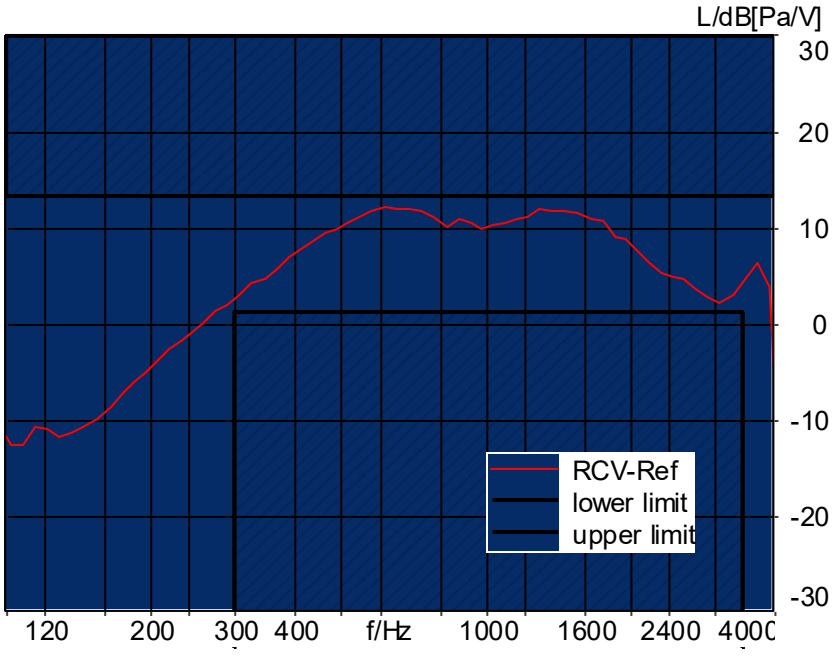
Used Setting	TIA5050

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
EVS-NB-5.9



Absolute minimal distance
1.08 dB at 611.7 Hz Ok

Ok

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Limits

lower
Fit into tolerance

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	131.1000 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(6#)

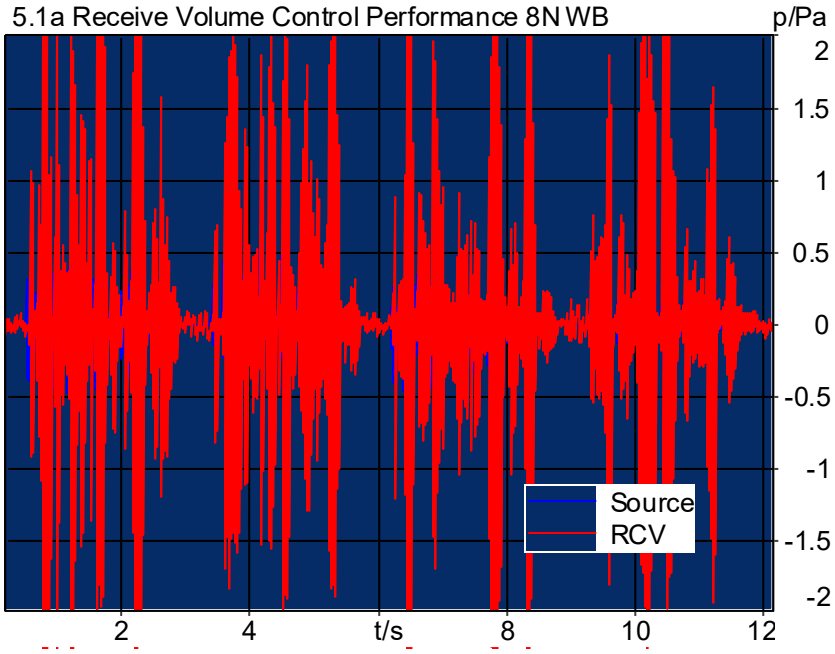
Measurement Object	Ti-CC26050303-LTEB5

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.83	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.28	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.56	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.34	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.27	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.99	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.84	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.10	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.46	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.46	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.72	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	51.39	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.64	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.37	Ti-CC26050303-LTEB5
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.80	Ti-CC26050303-LTEB5
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.76	Ti-CC26050303-LTEB5

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	84.83 dB[SPL]	81.96%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

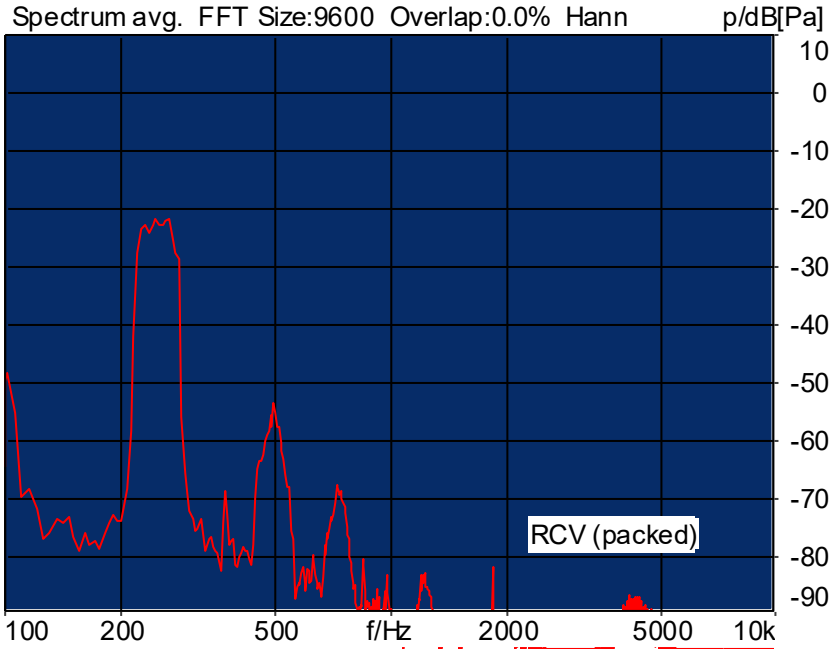
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.28 dB (1.53%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

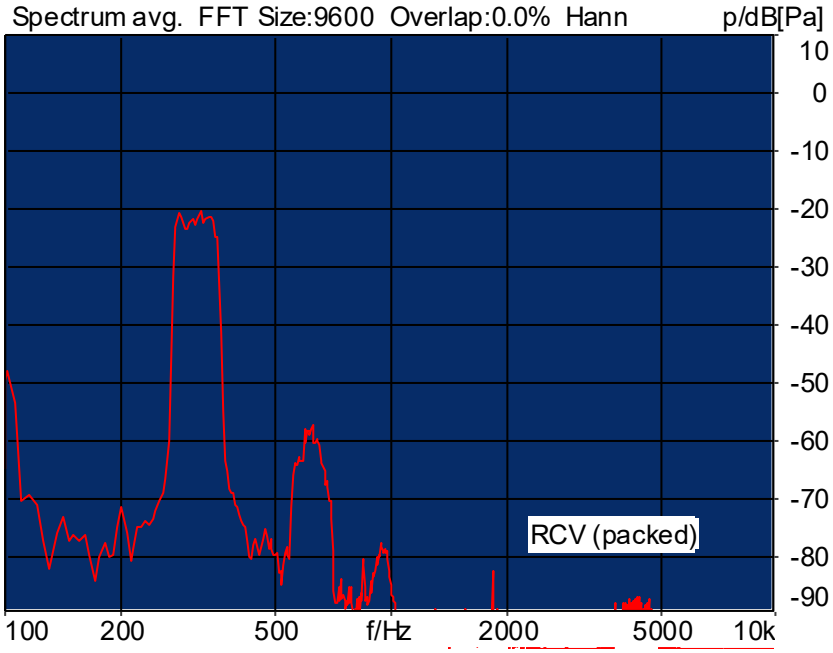
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 38.56 dB (1.18%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

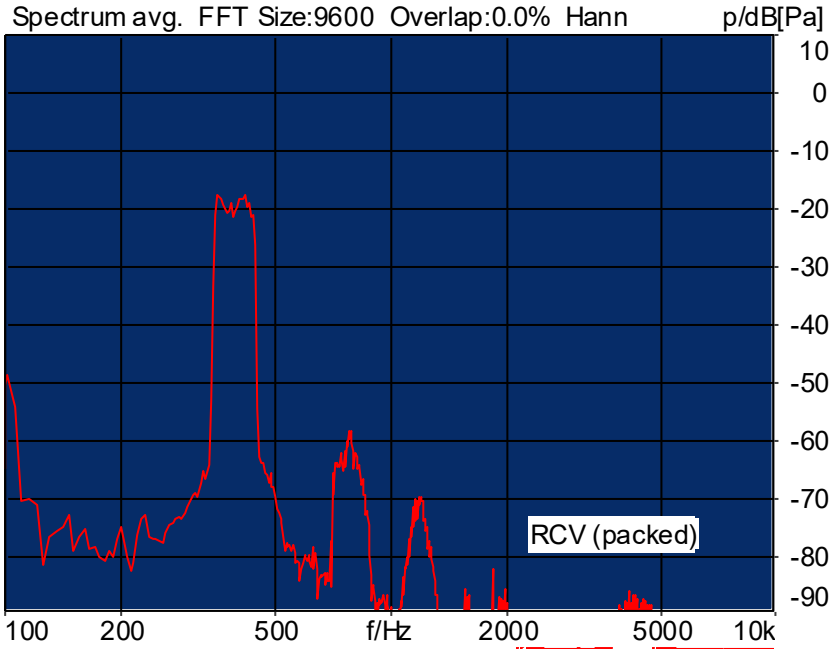
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 41.34 dB (0.86%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

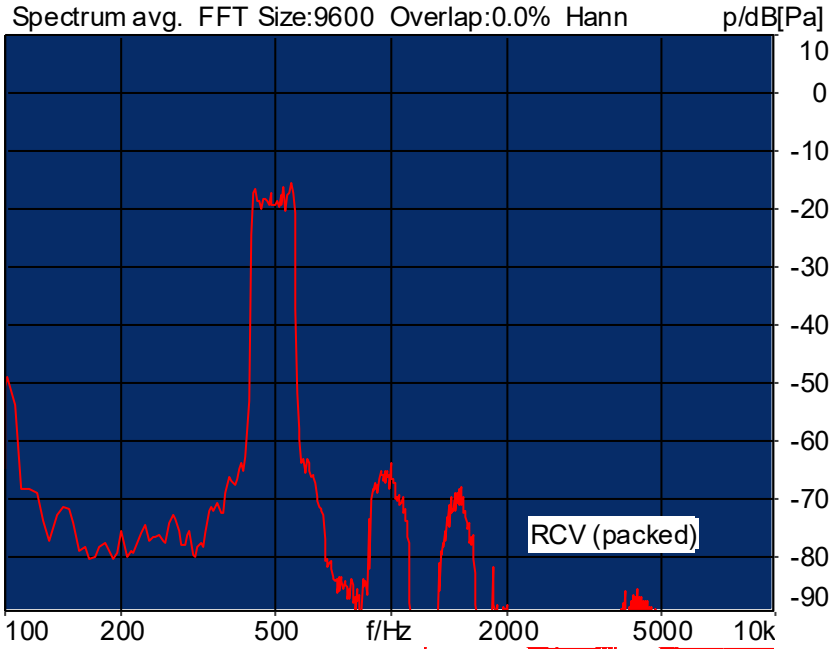
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 44.27 dB (0.61%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

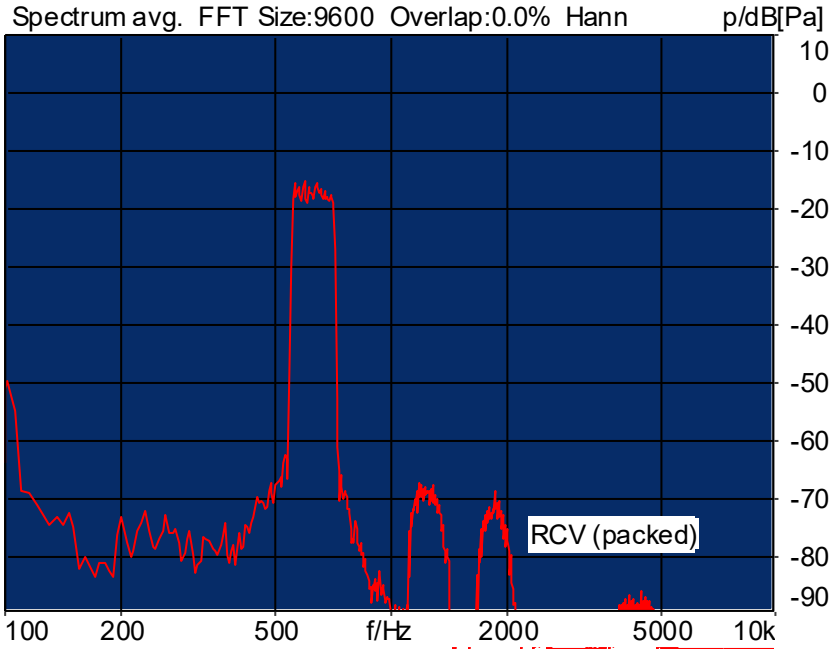
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 46.99 dB (0.45%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

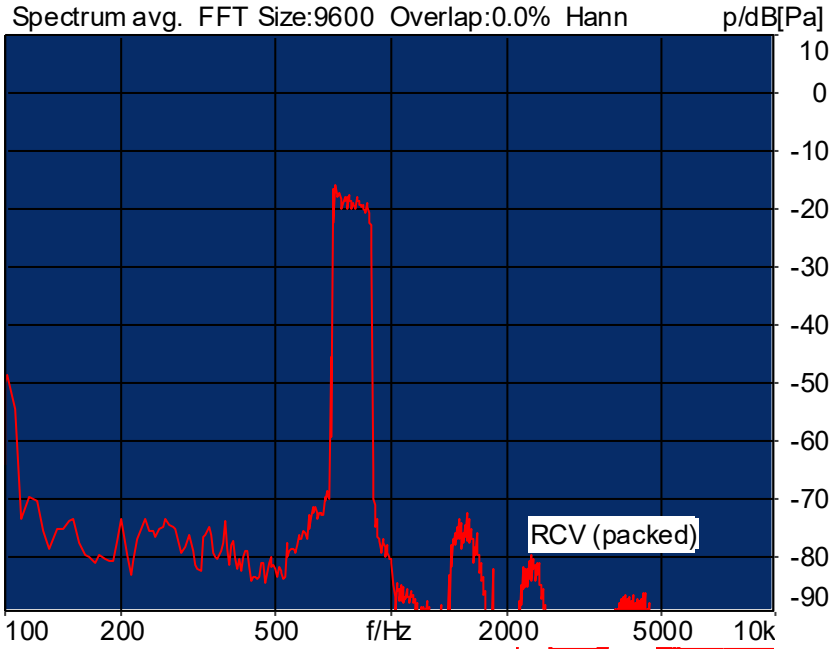
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 50.84 dB (0.29%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

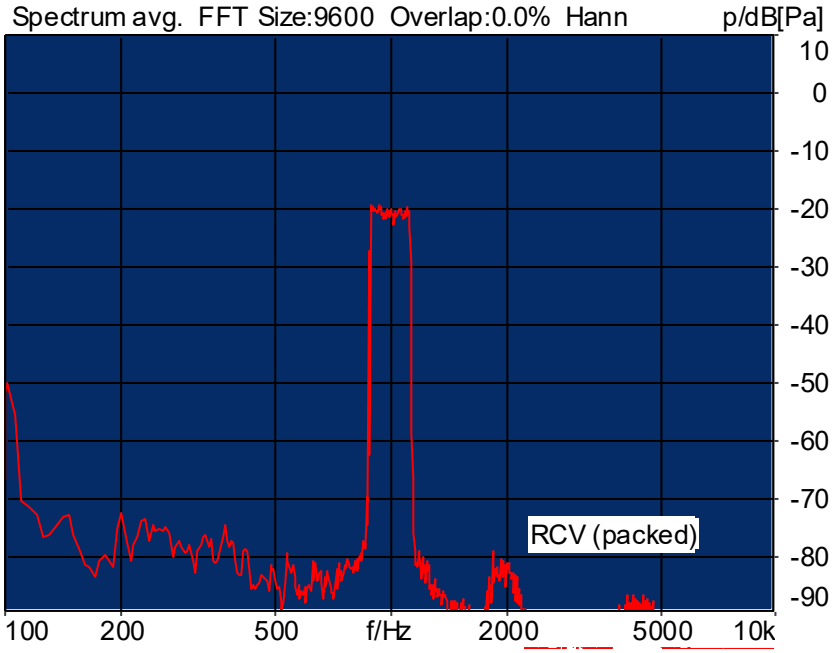
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 53.10 dB (0.22%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

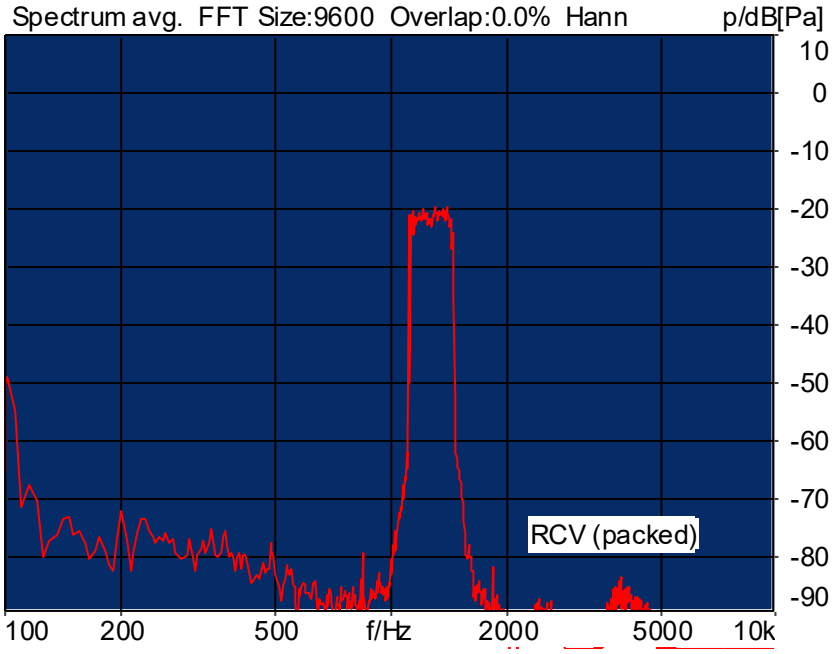
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.46 dB (2.67%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

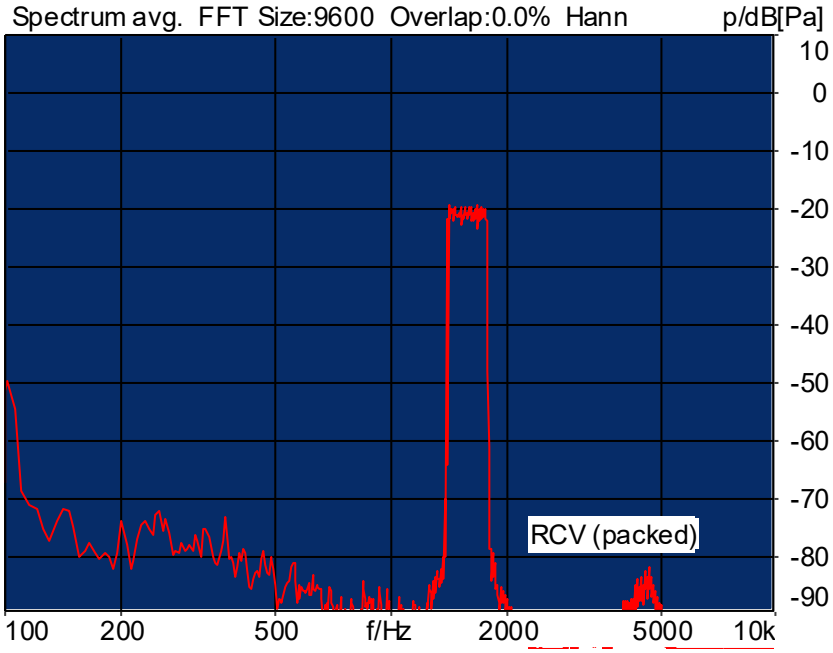
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 55.46 dB (0.17%) Ok

Ok

2026/6/5 12:04 ACQUA 6.2.100

Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

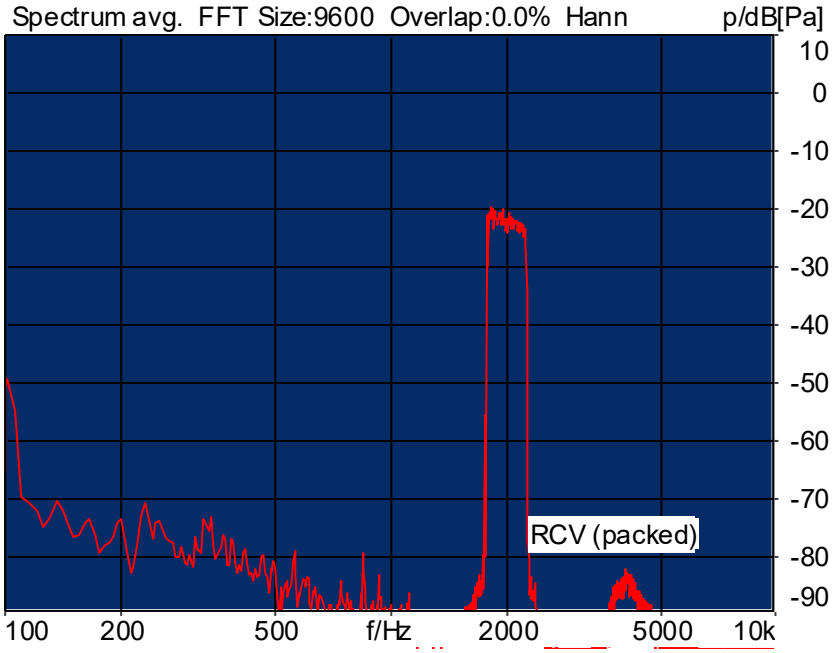
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 54.72 dB (0.18%) Ok

Ok

2026/6/5 12:04 ACQUA 6.2.100

Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

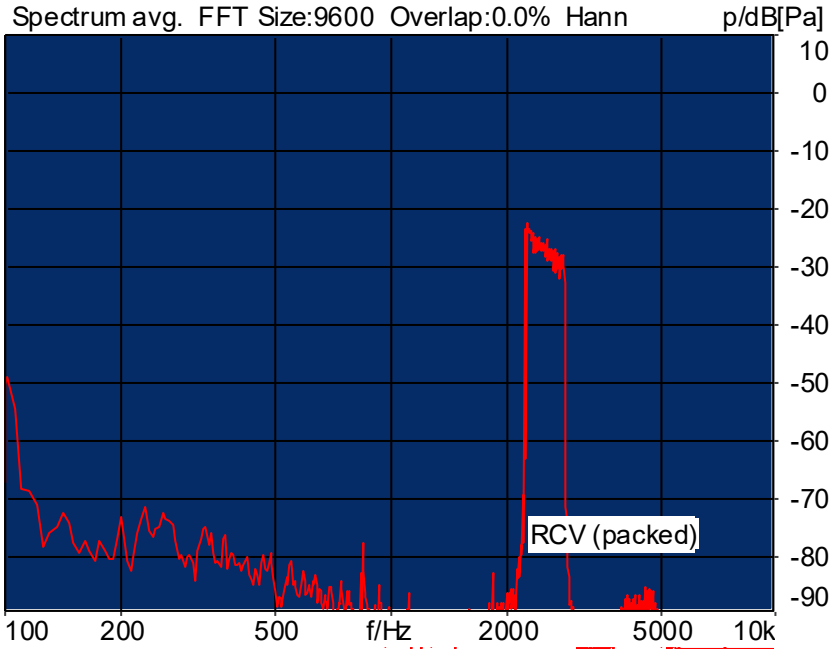
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 51.39 dB (0.27%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

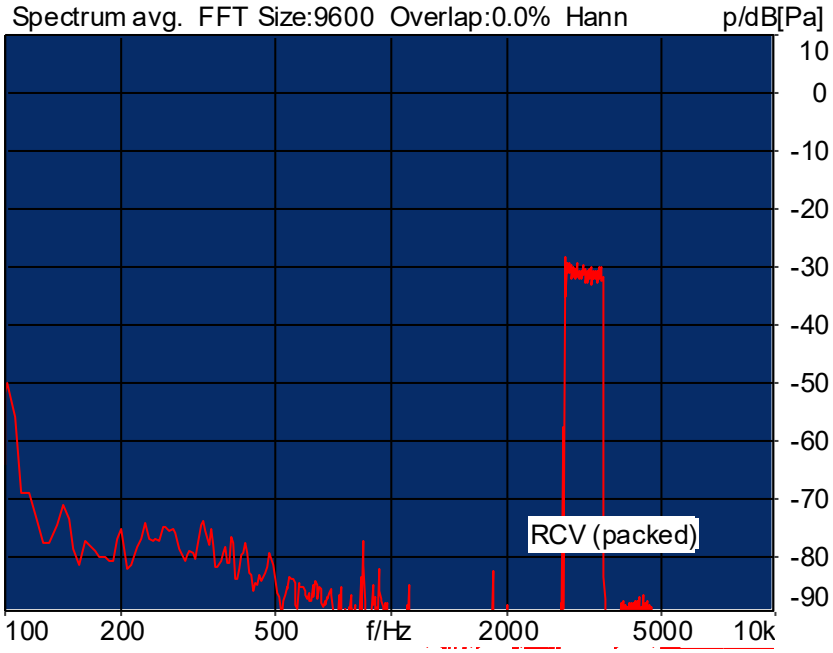
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 49.64 dB (0.33%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

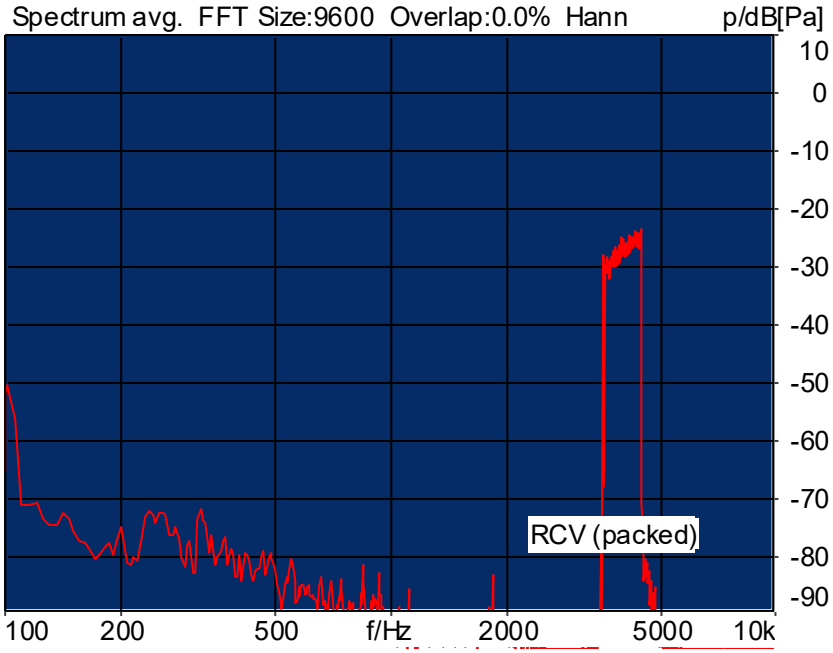
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 54.37 dB (0.19%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

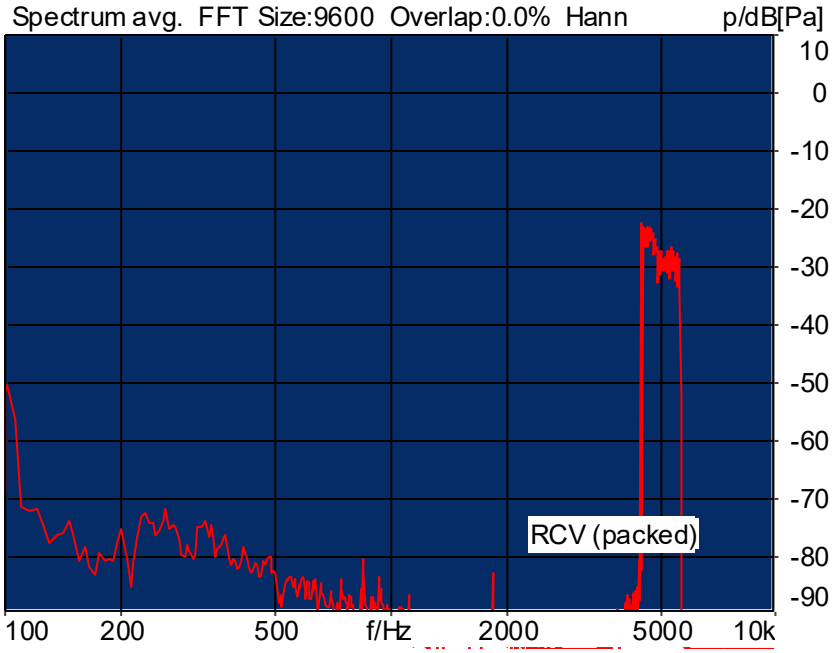
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 55.80 dB (0.16%) Ok

Ok

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Limits

lower
20.00 dB

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	89.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

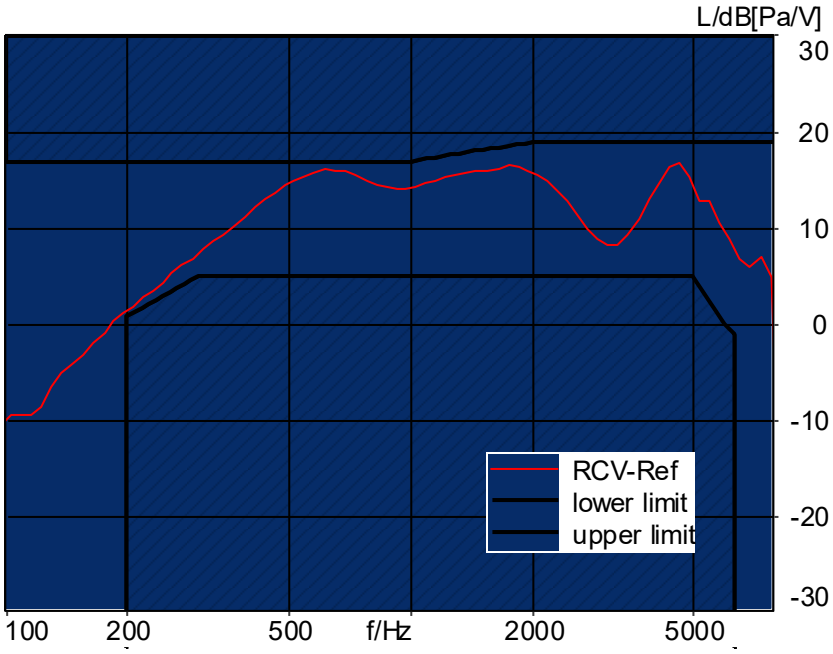
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.76 dB at 611.7 Hz Ok

Ok

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Limits

lower
Fit into tolerance

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	89.0000 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

Measurement Protocol(7#)

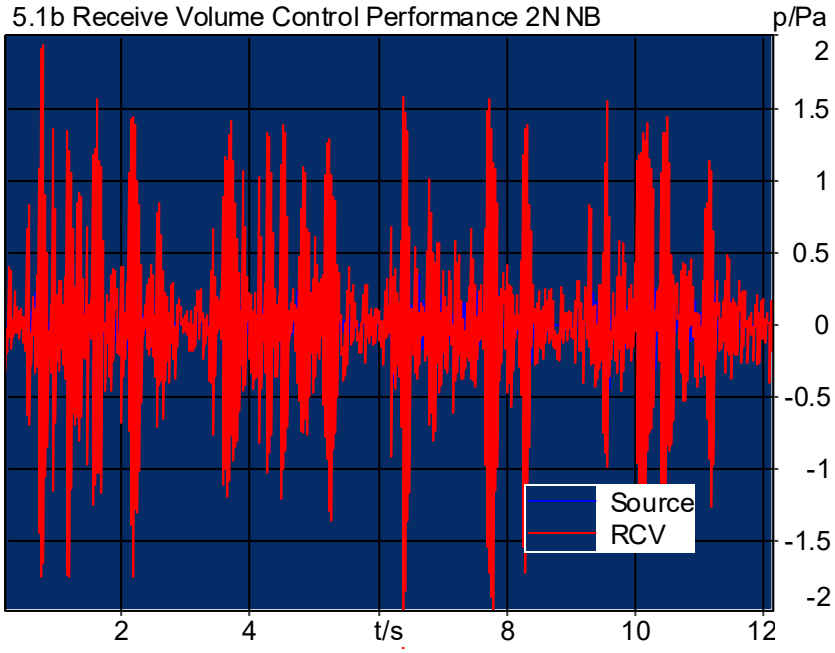
Measurement Object	Ti-CC26050303-LTEB7

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.49	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.23	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.86	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.48	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.88	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.98	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.21	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.75	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.41	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.76	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.14	Ti-CC26050303-LTEB7
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.37	Ti-CC26050303-LTEB7

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.49 dB[SPL]	80.50%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

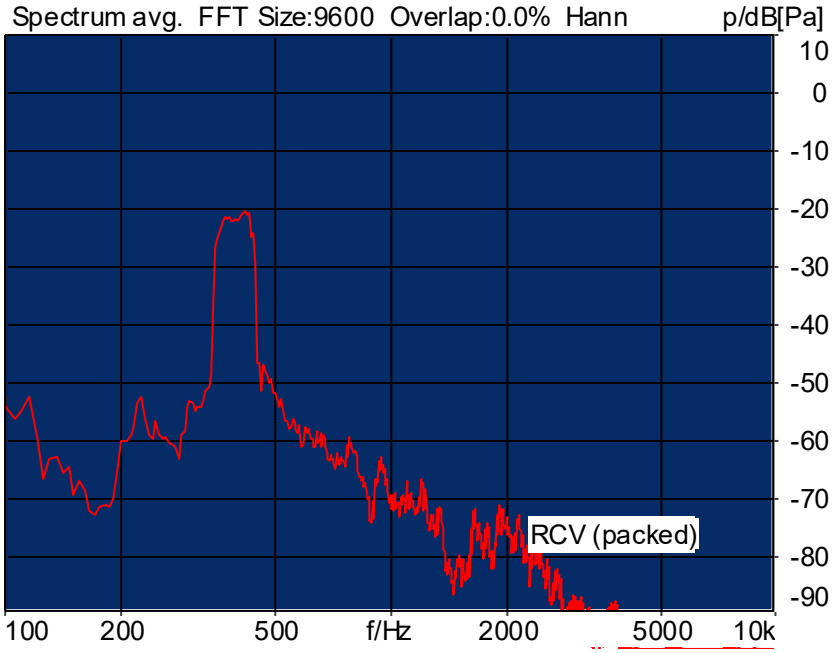
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.23 dB (2.74%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

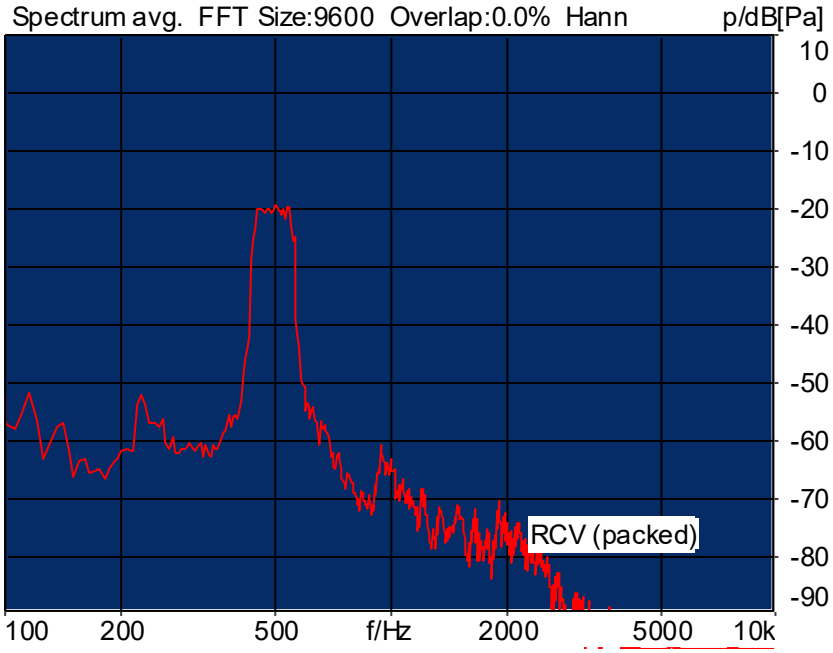
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 34.86 dB (1.81%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

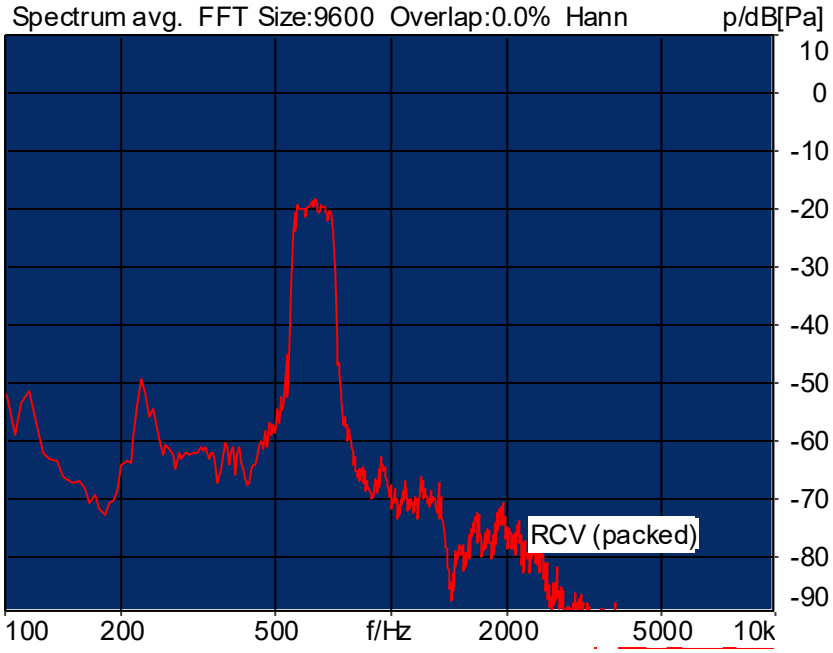
Used Setting	TIA5050

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 EVS-NB-5.9



Distortion (Noise) RCV (packed): 37.48 dB (1.34%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

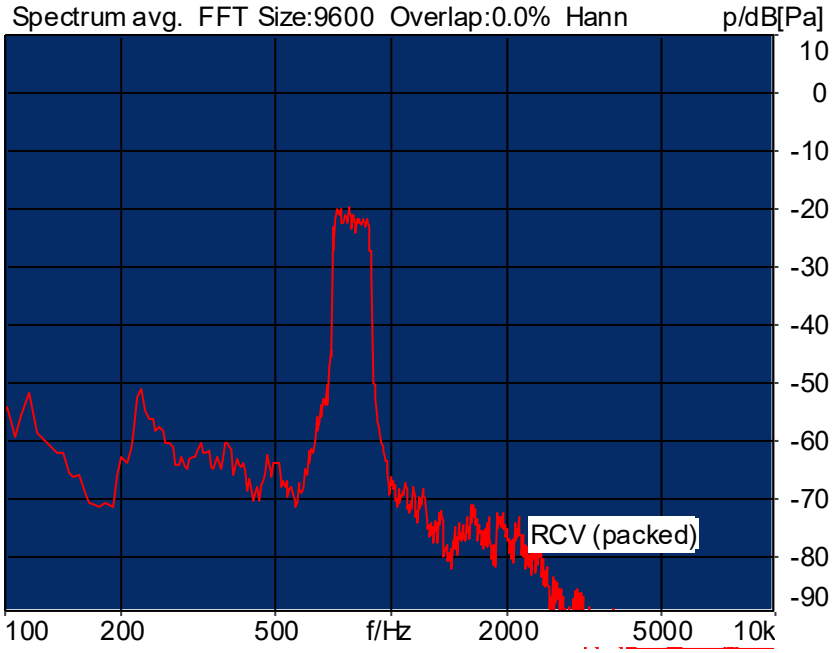
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.88 dB (1.43%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

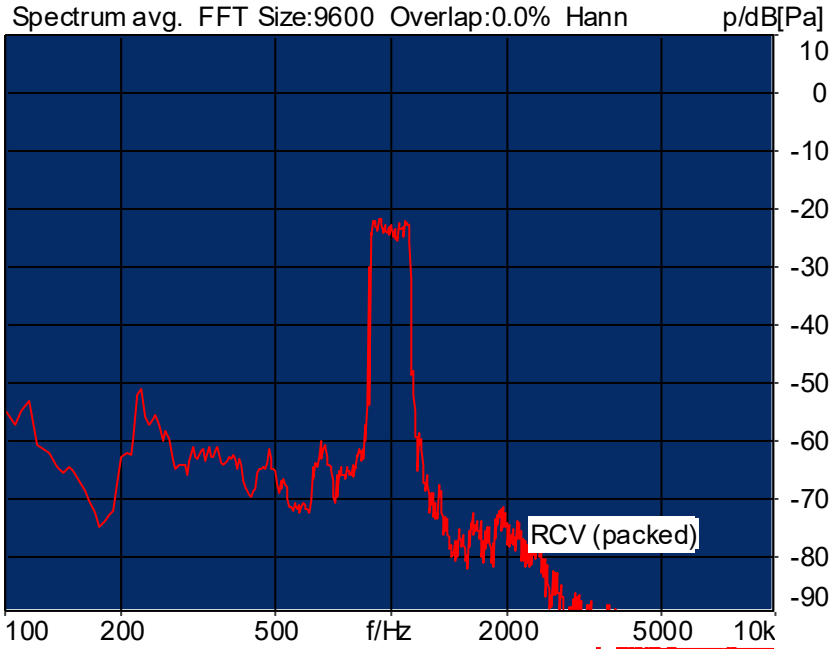
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.98 dB (1.42%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

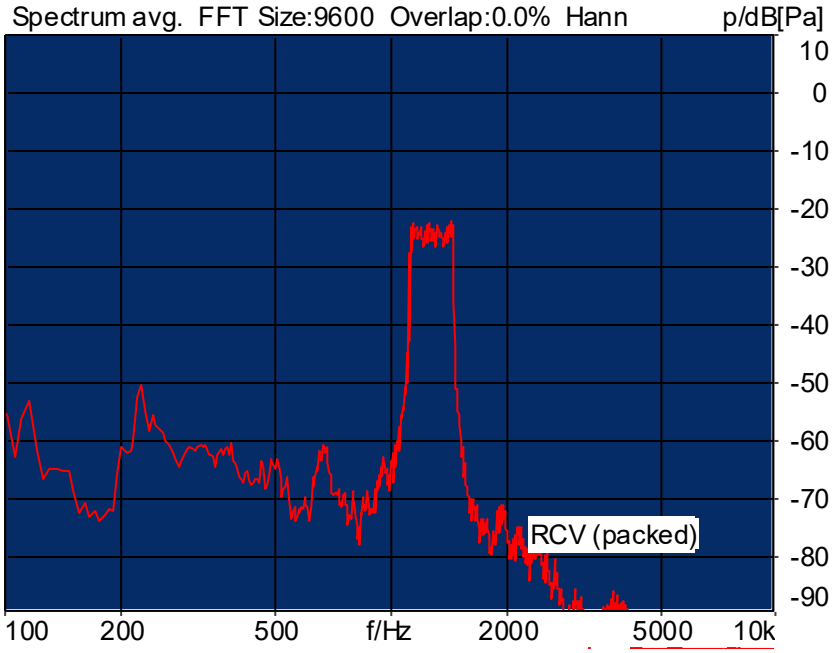
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 27.21 dB (4.36%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

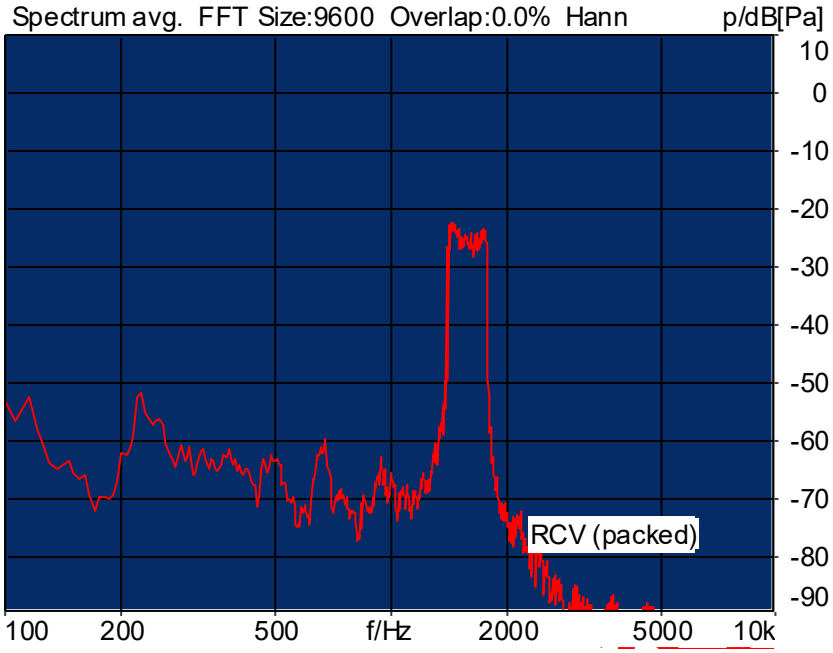
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.75 dB (1.63%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

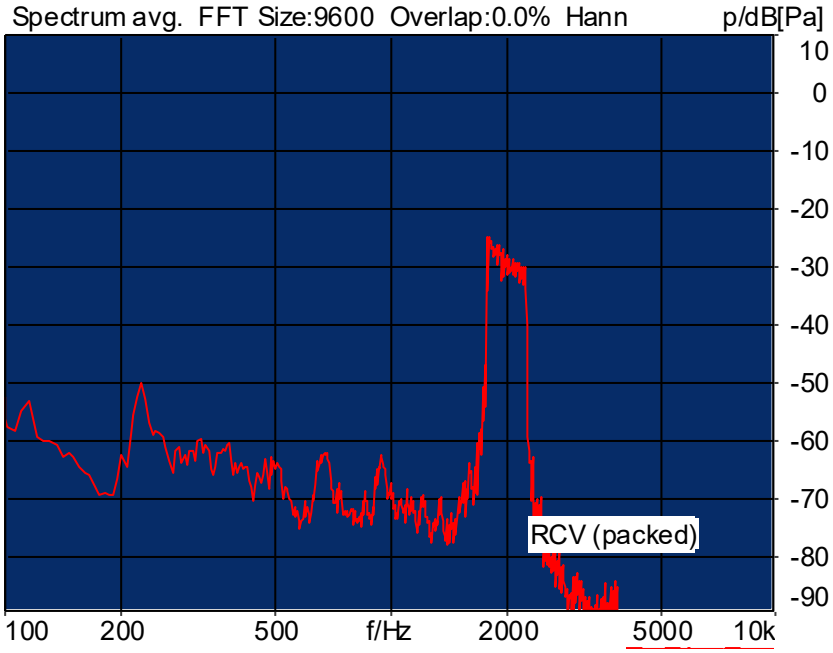
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 32.41 dB (2.40%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

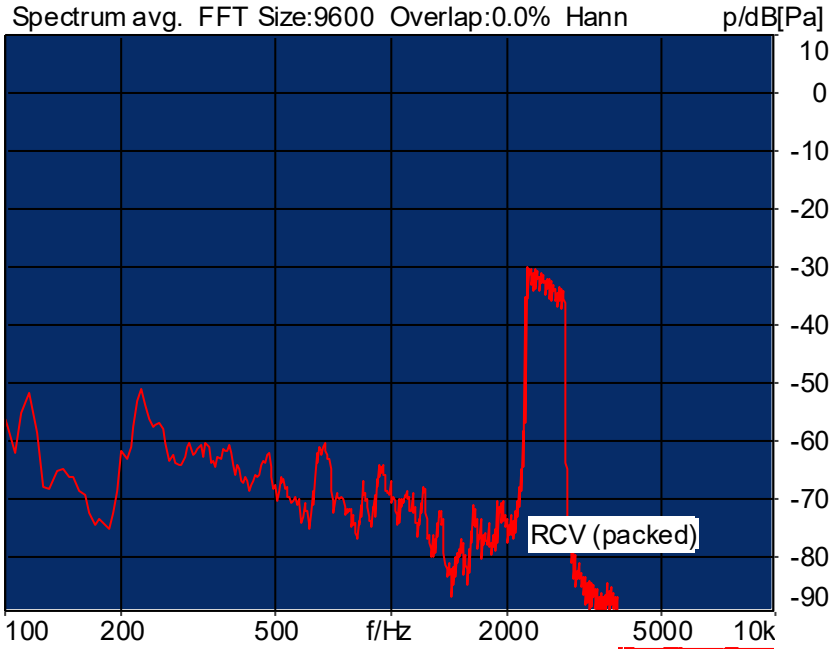
Used Setting	TIA5050

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
EVS-NB-5.9



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

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

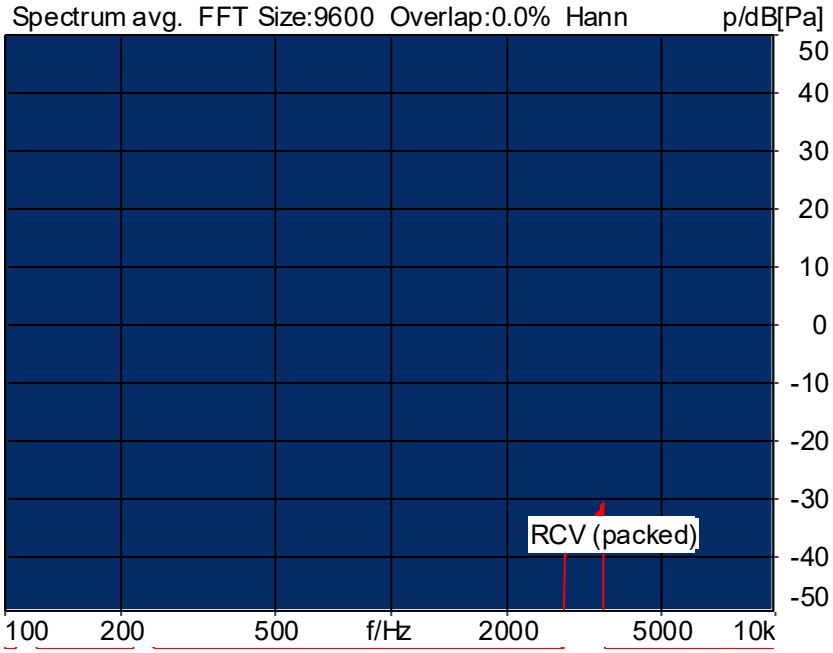
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 29.14 dB (3.49%) Ok

Ok

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Limits

lower
20.00 dB

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	140.0000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

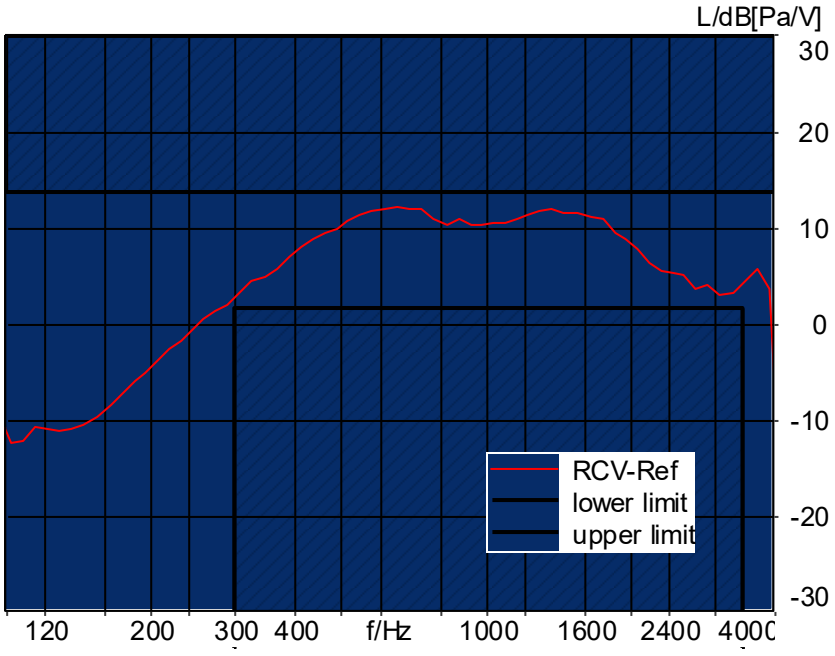
Used Setting	TIA5050

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
EVS-NB-5.9



Absolute minimal distance
1.37 dB at 649.1 Hz Ok

Ok

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Limits

lower
Fit into tolerance

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	140.0000 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(8#)

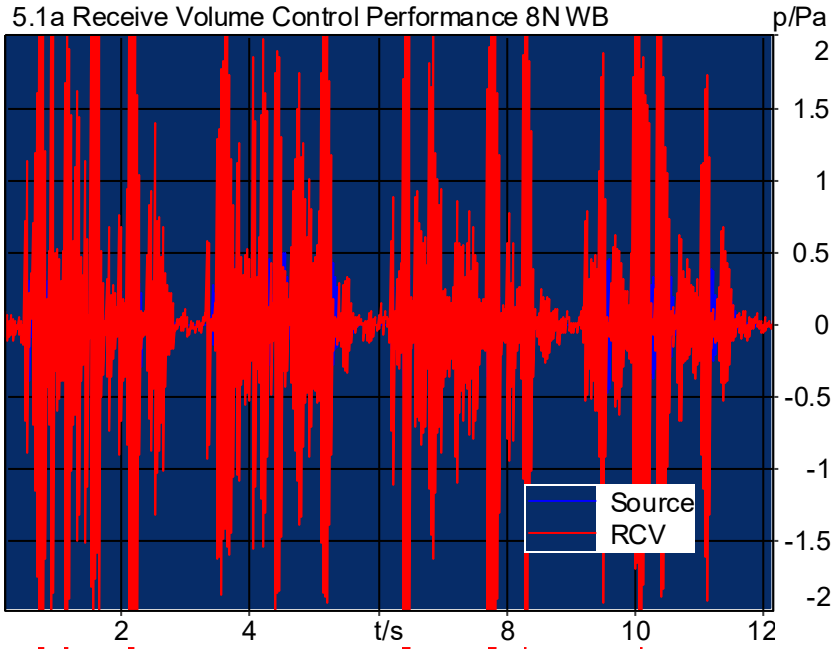
Measurement Object	Ti-CC26050303-LTEB7

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.72	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.08	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.28	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.17	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.18	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.18	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.82	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.39	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.60	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.65	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.52	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.92	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.36	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.26	Ti-CC26050303-LTEB7
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.72	Ti-CC26050303-LTEB7
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.75	Ti-CC26050303-LTEB7

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	84.72 dB[SPL]	82.11%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

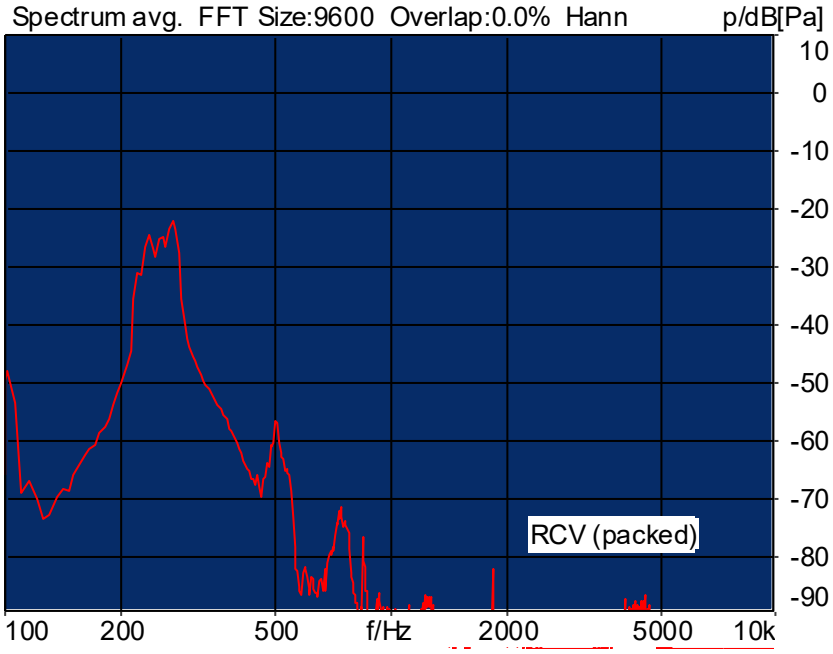
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.08 dB (2.79%) Ok

Ok

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Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

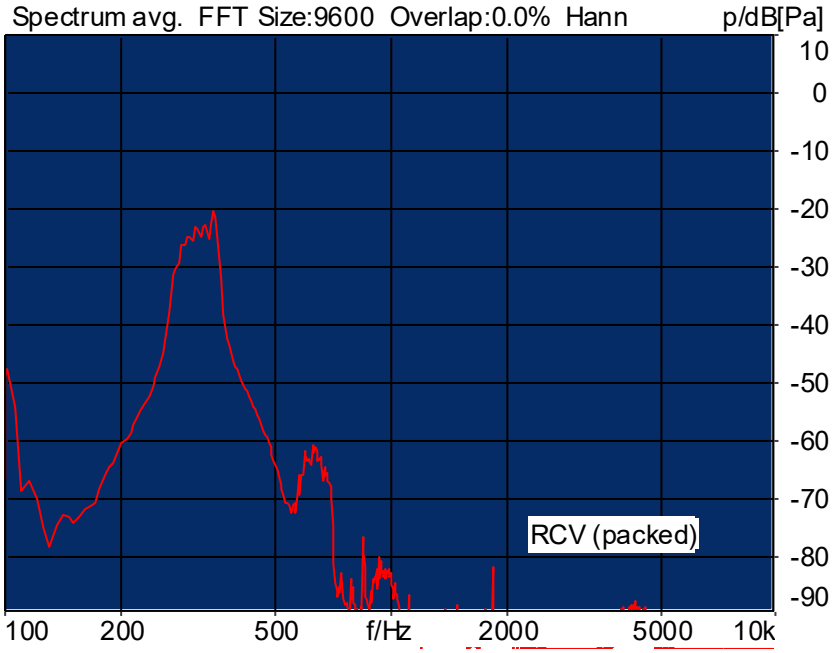
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.28 dB (2.73%) Ok

Ok

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Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

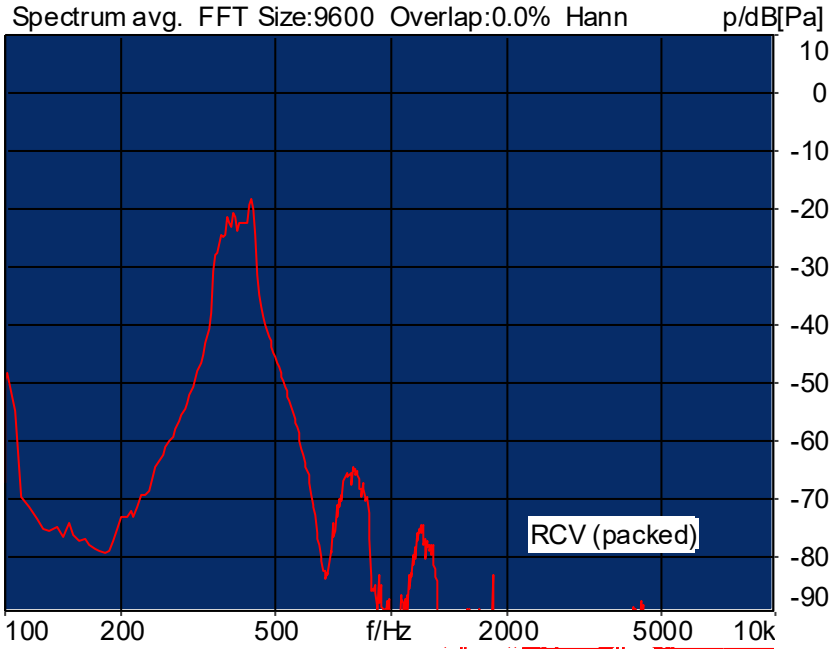
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 29.17 dB (3.48%) Ok

Ok

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Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

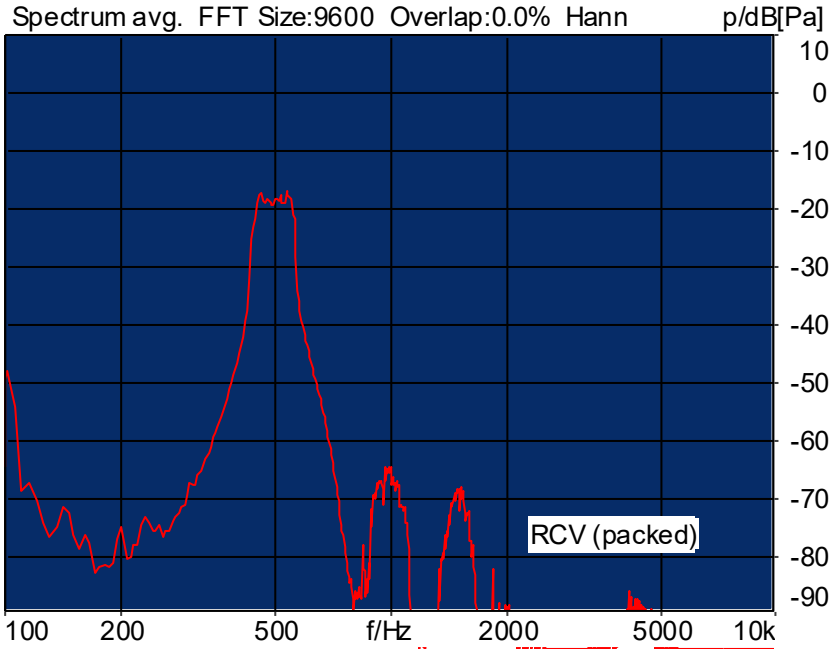
Used Setting	TIA5050

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-24.4



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

Ok

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Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

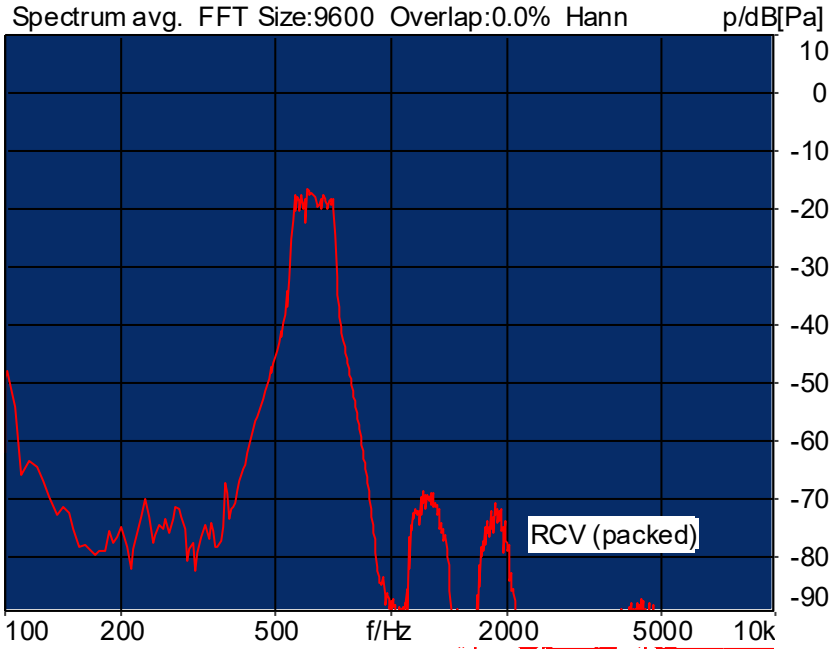
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.18 dB (2.76%) Ok

Ok

2026/6/5 11:50 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

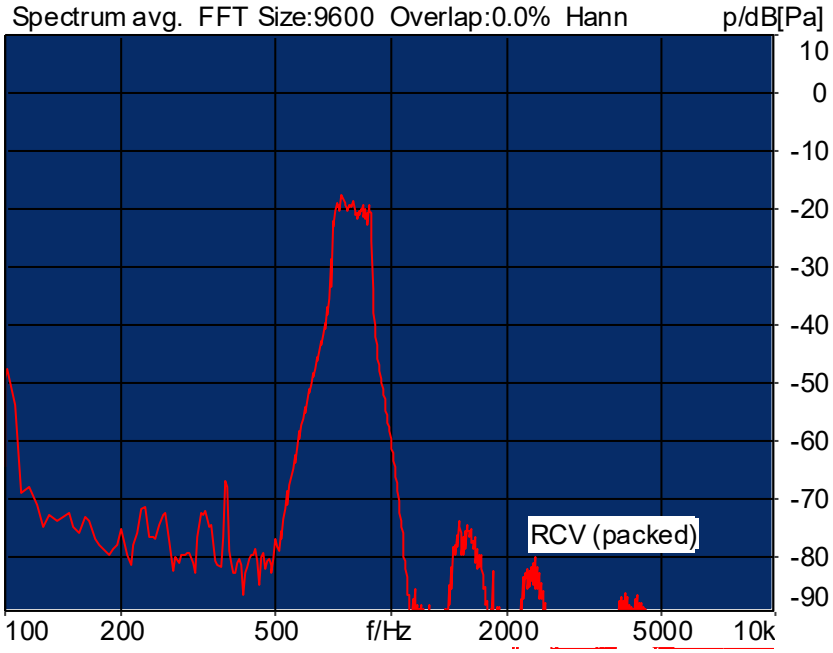
Used Setting	TIA5050

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-24.4



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

Ok

2026/6/5 11:51 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

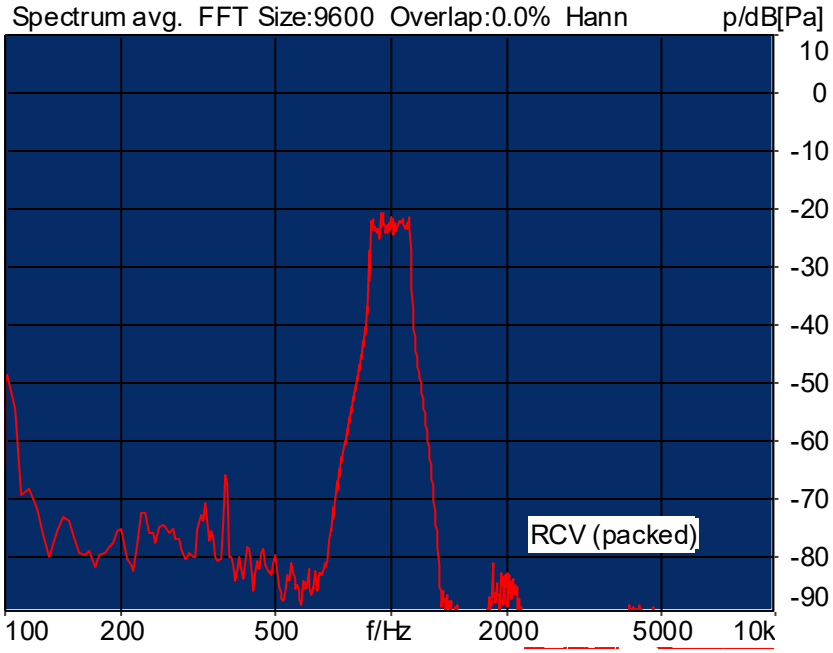
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 28.39 dB (3.80%) Ok

Ok

2026/6/5 11:51 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

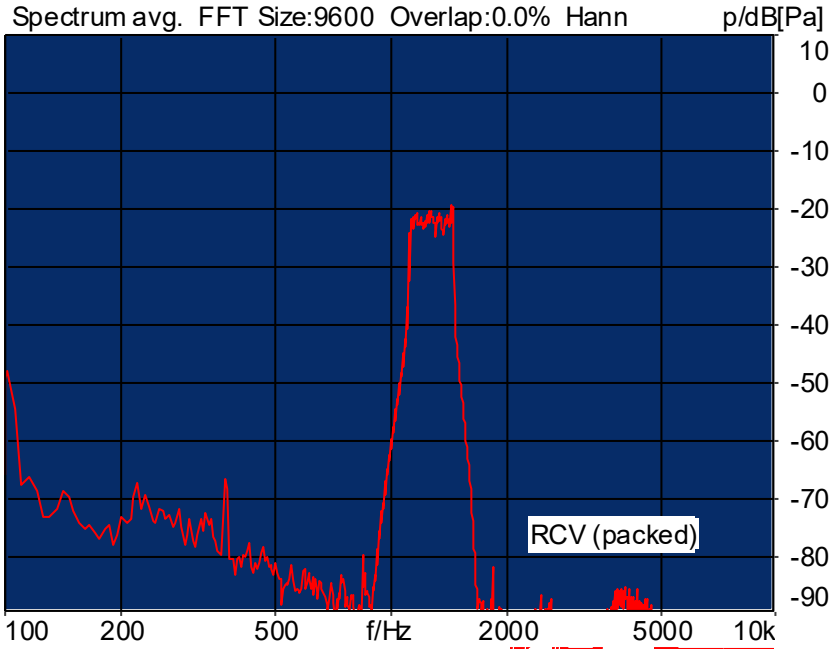
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 22.60 dB (7.41%) Ok

Ok

2026/6/5 11:52 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

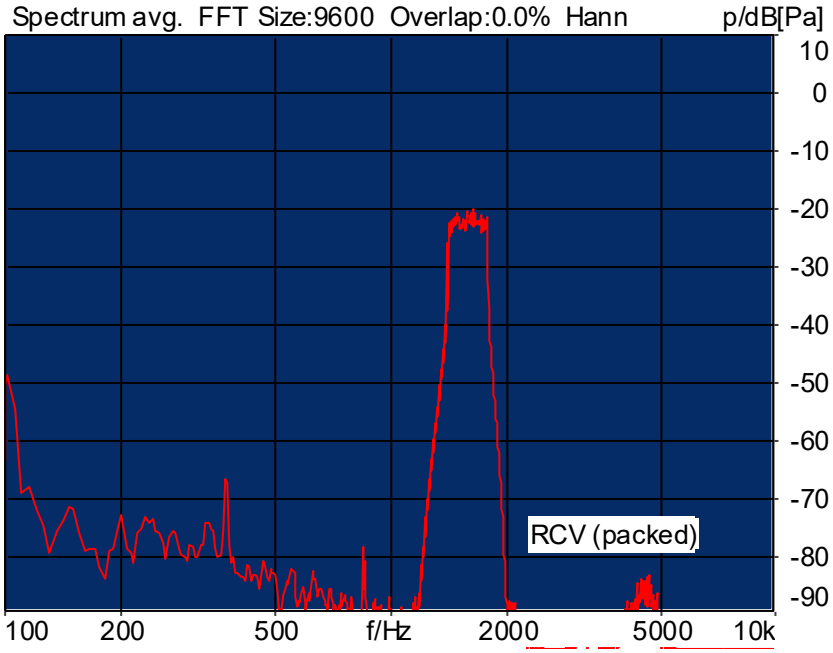
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.65 dB (2.61%) Ok

Ok

2026/6/5 11:52 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

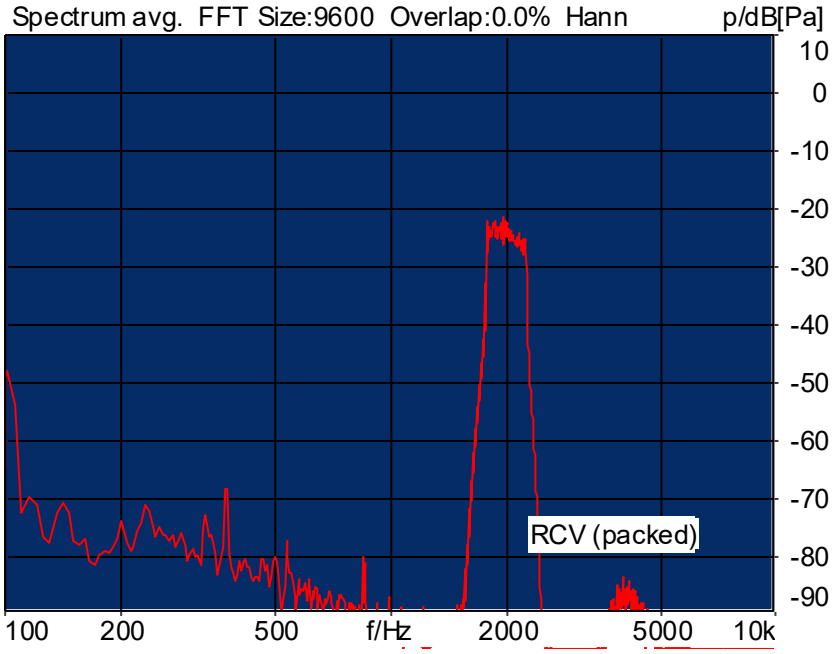
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 29.52 dB (3.34%) Ok

Ok

2026/6/5 11:52 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

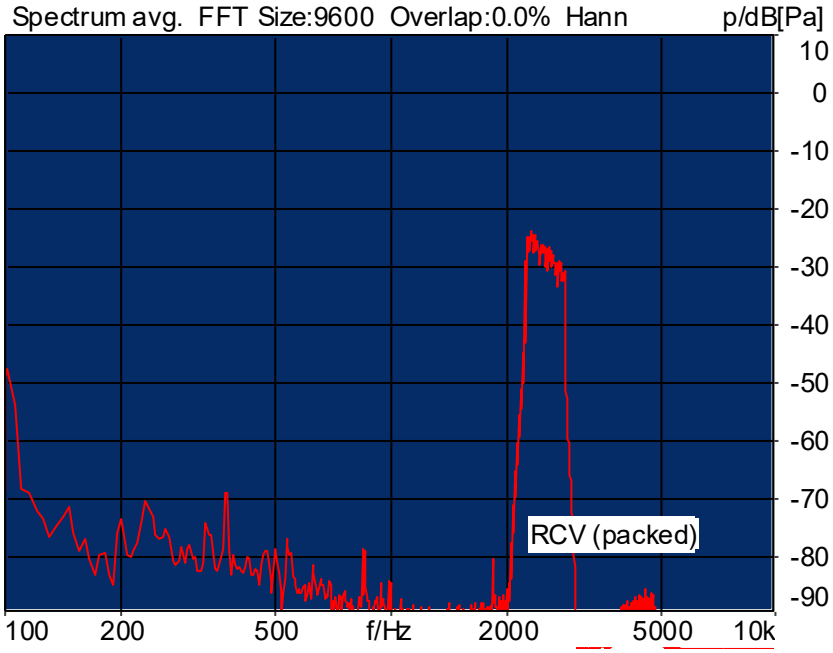
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 32.92 dB (2.26%) Ok

Ok

2026/6/5 11:53 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

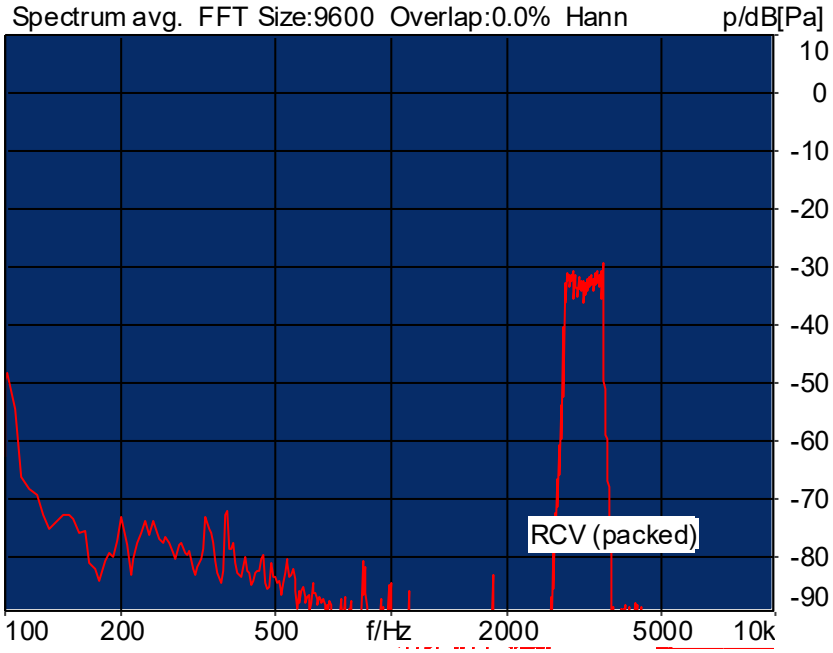
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 32.36 dB (2.41%) Ok

Ok

2026/6/5 11:53 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

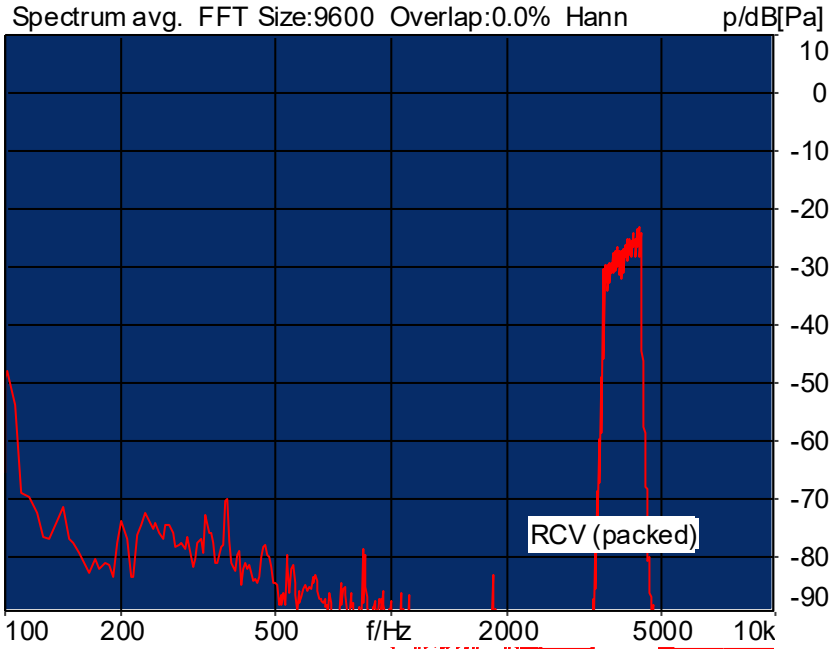
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 37.26 dB (1.37%) Ok

Ok

2026/6/5 11:54 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

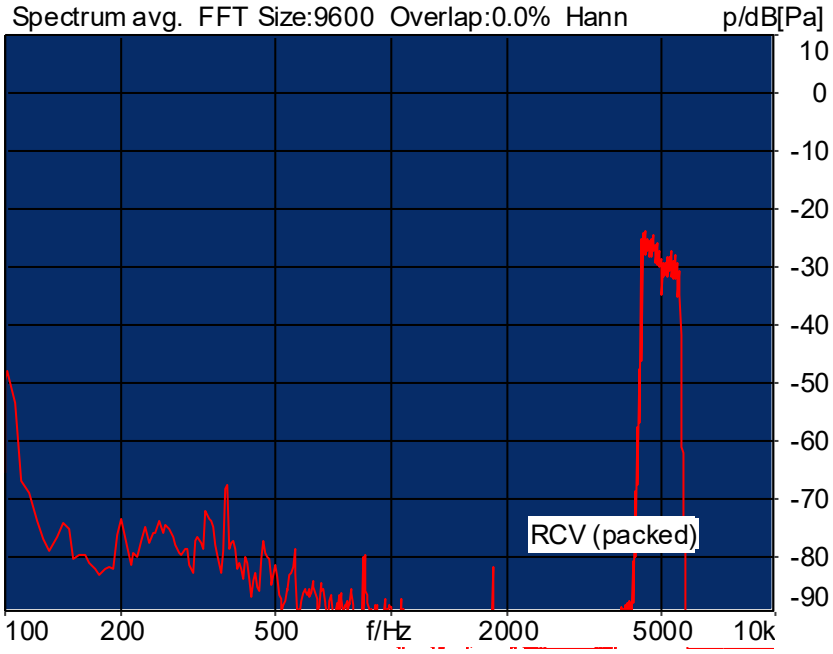
Used Setting	TIA5050

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-24.4



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

Ok

2026/6/5 11:54 ACQUA 6.2.100

Limits

lower
20.00 dB

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	187.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

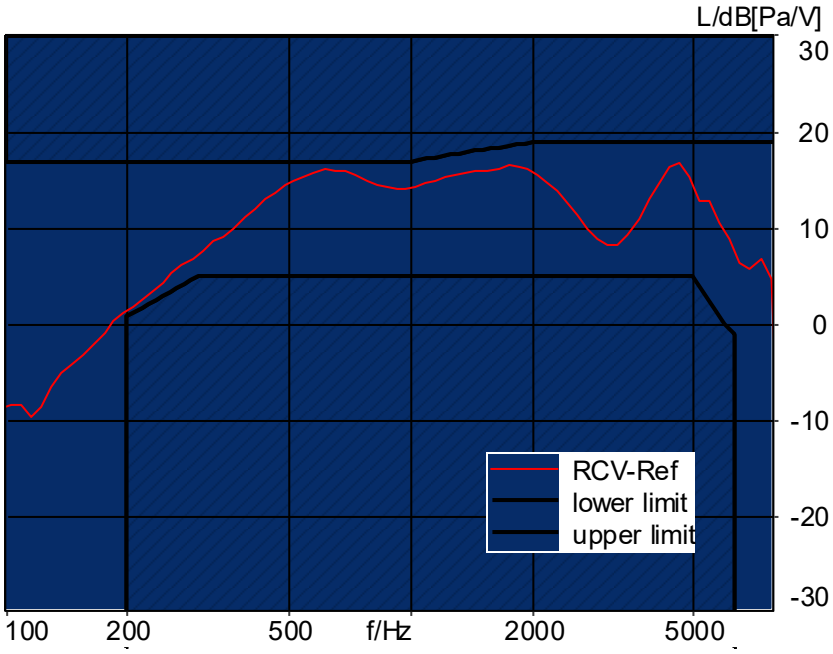
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.75 dB at 611.7 Hz Ok

Ok

2026/6/5 11:58 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	187.2000 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(9#)

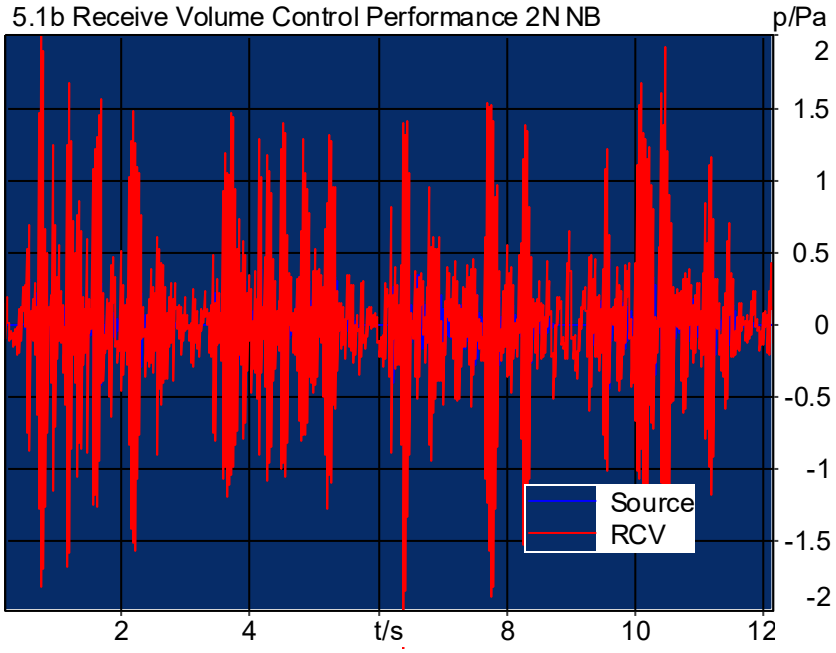
Measurement Object	Ti-CC26050303-LTEB12

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.54	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.86	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.39	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.06	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.23	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.41	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.32	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.64	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.89	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.59	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.02	Ti-CC26050303-LTEB12
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.25	Ti-CC26050303-LTEB12

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.54 dB[SPL]	80.31%	Ok

Ok

2026/6/6 3:50 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

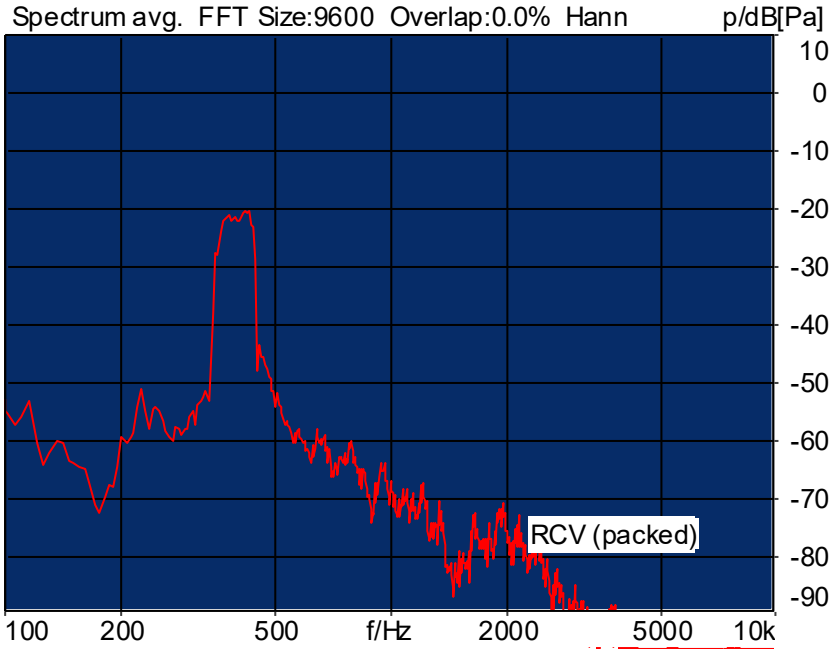
Used Setting	TIA5050

MFE VI Settings

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

5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.86 dB (2.55%) Ok

Ok

2026/6/6 3:50 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

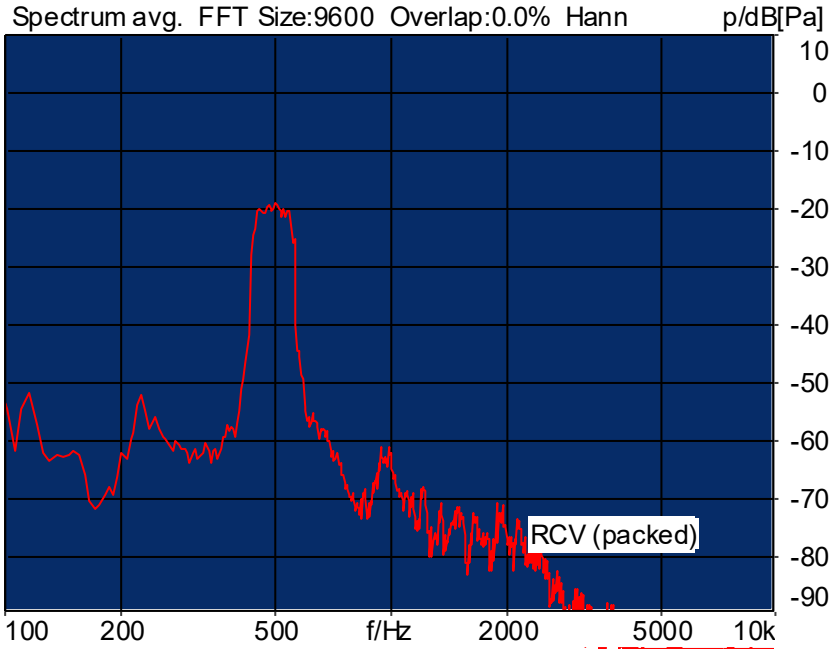
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.39 dB (1.70%) Ok

Ok

2026/6/6 3:51 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

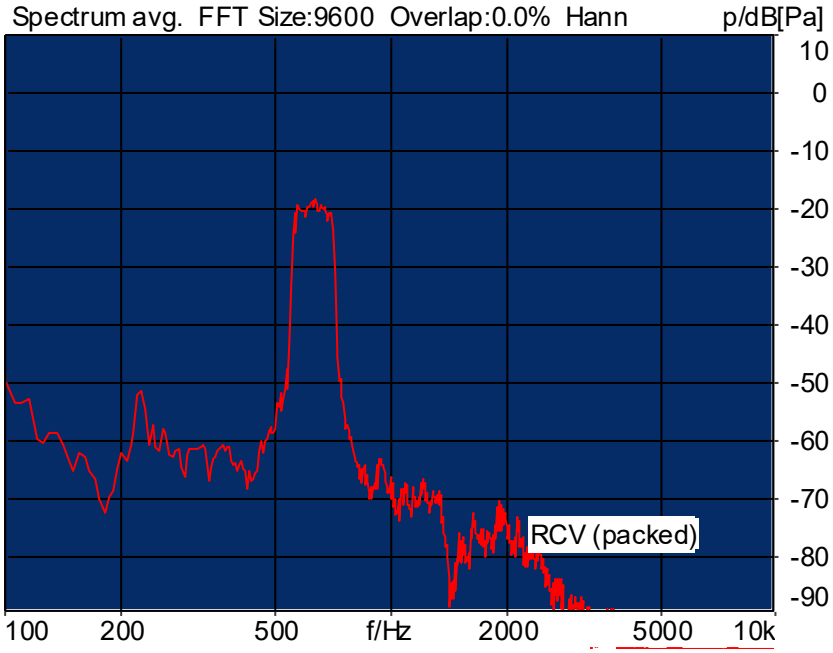
Used Setting	TIA5050

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 EVS-NB-5.9



Distortion (Noise) RCV (packed): 37.06 dB (1.40%) Ok

Ok

2026/6/6 3:51 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

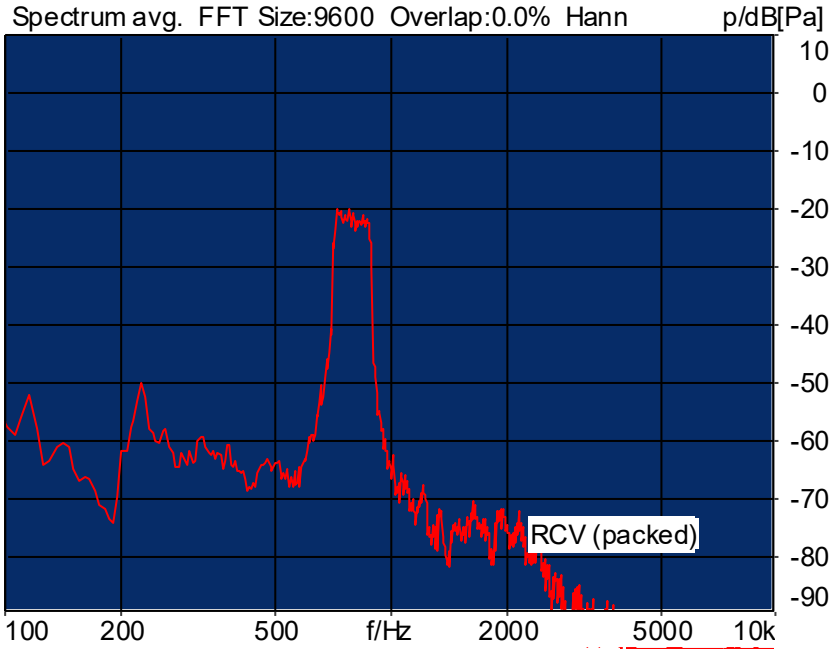
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.23 dB (1.73%) Ok

Ok

2026/6/6 3:51 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

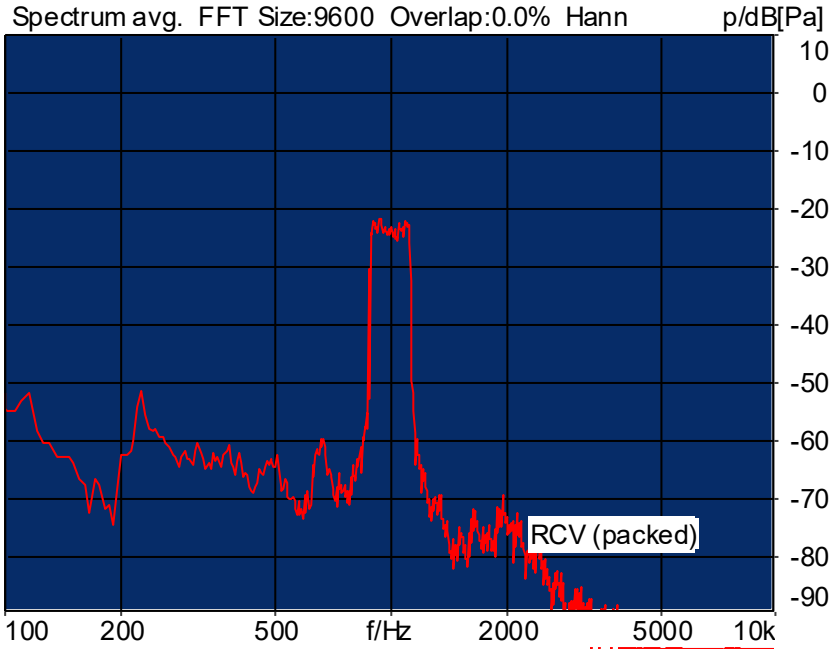
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 37.41 dB (1.35%) Ok

Ok

2026/6/6 3:52 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

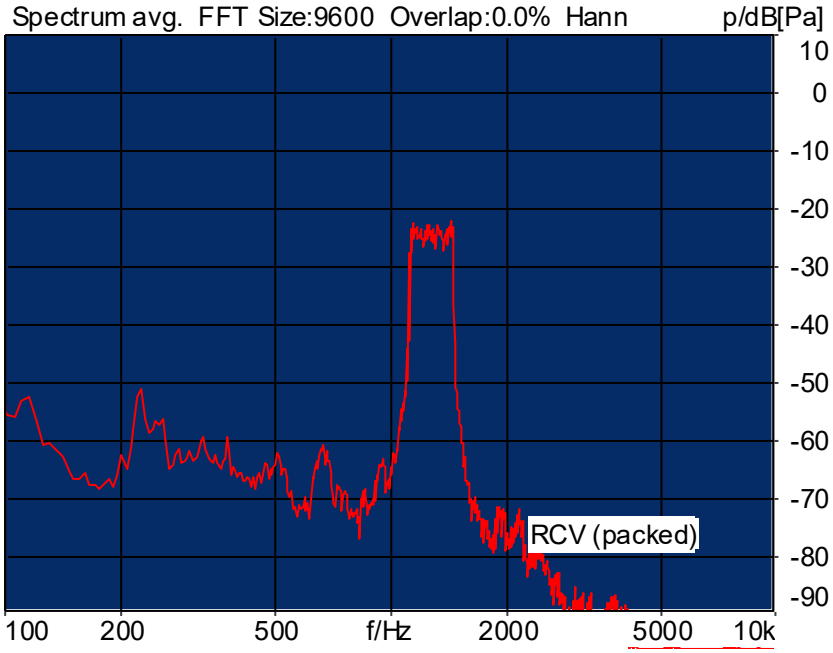
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 27.32 dB (4.31%) Ok

Ok

2026/6/6 3:52 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

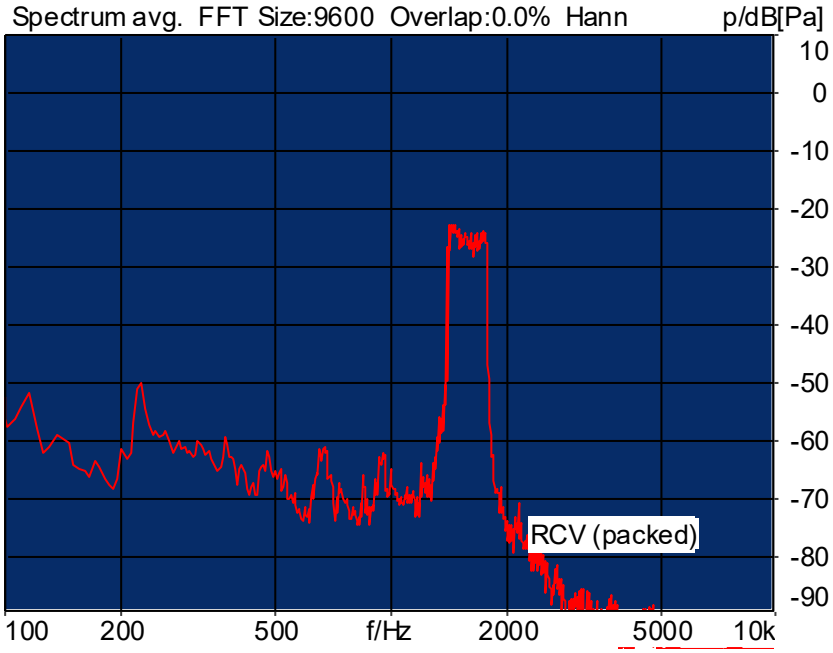
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.64 dB (1.65%) Ok

Ok

2026/6/6 3:53 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

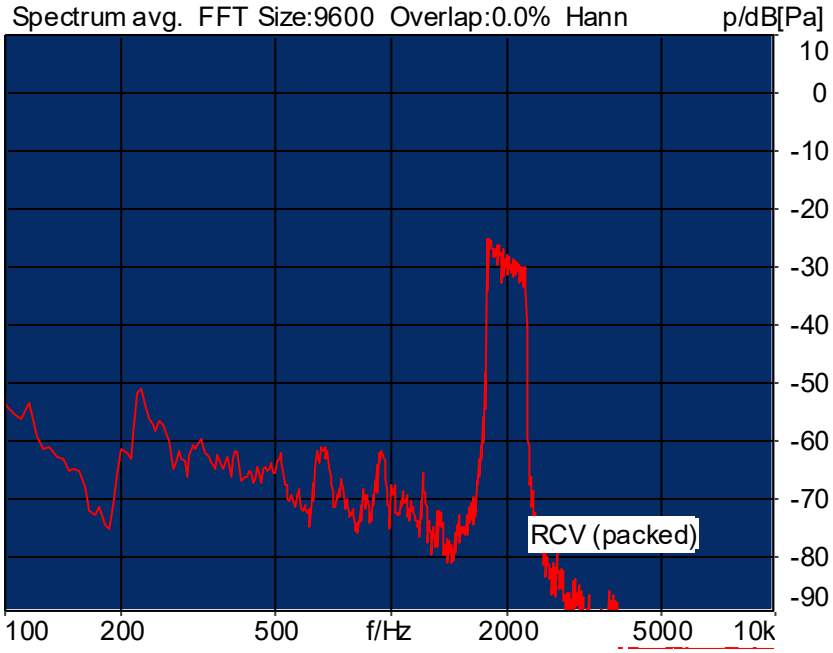
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 33.89 dB (2.02%) Ok

Ok

2026/6/6 3:53 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

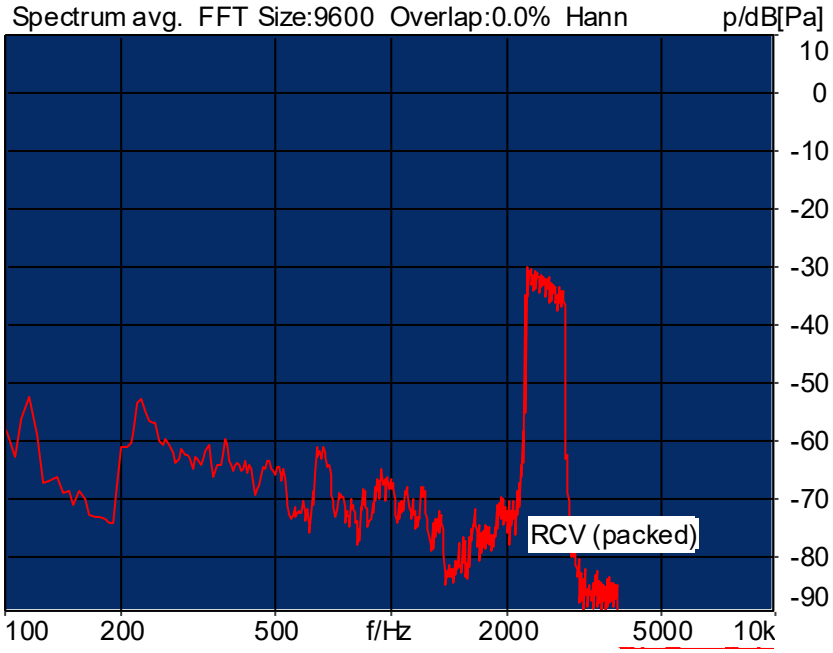
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.59 dB (2.63%) Ok

Ok

2026/6/6 3:53 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

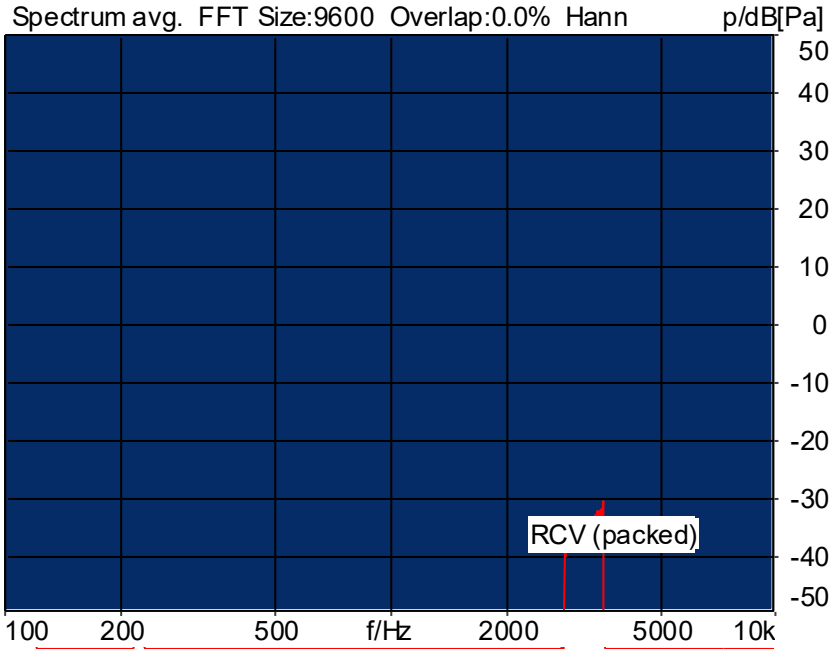
Used Setting	TIA5050

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
EVS-NB-5.9



Distortion (Noise) RCV (packed): 30.02 dB (3.15%) Ok

Ok

2026/6/6 3:54 ACQUA 6.2.100

Limits

lower
20.00 dB

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	142.4000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

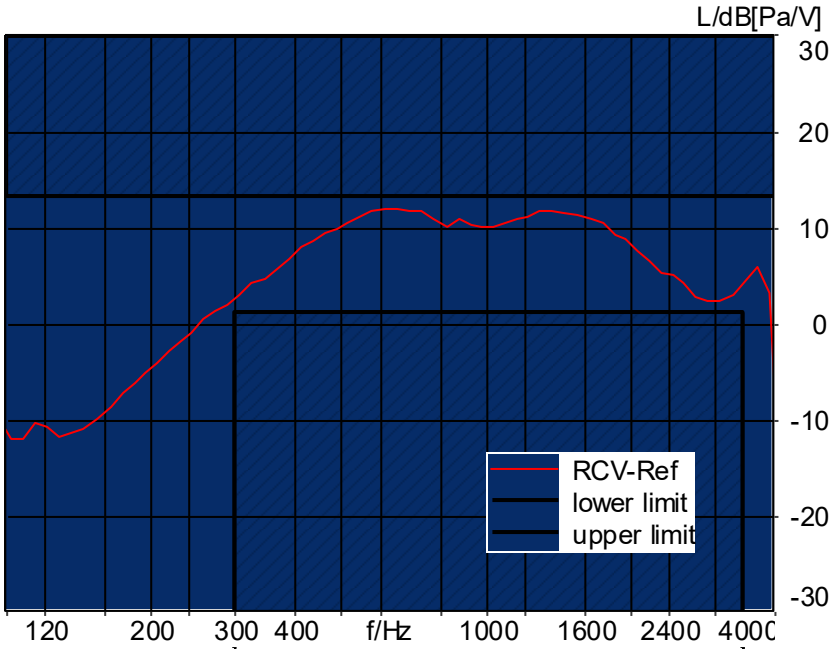
Used Setting	TIA5050

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
EVS-NB-5.9



Absolute minimal distance
1.25 dB at 611.7 Hz Ok

Ok

2026/6/6 3:54 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	142.4000 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(10#)

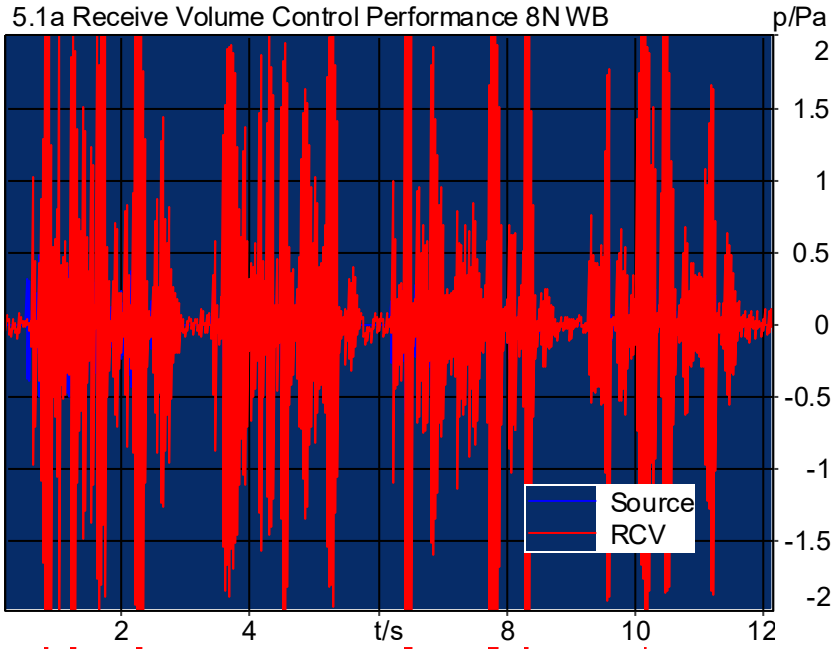
Measurement Object	Ti-CC26050303-LTEB12

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	85.07	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.07	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.19	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.31	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.76	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.44	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.59	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.48	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.93	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.63	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.91	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.39	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.71	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.55	Ti-CC26050303-LTEB12
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.11	Ti-CC26050303-LTEB12
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.81	Ti-CC26050303-LTEB12

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	85.07 dB[SPL]	82.10%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

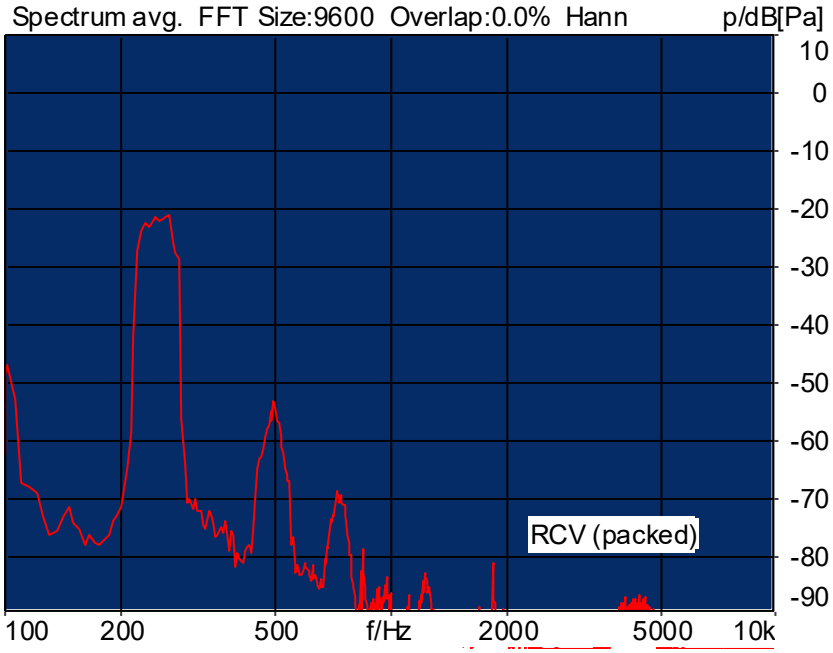
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.07 dB (1.57%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

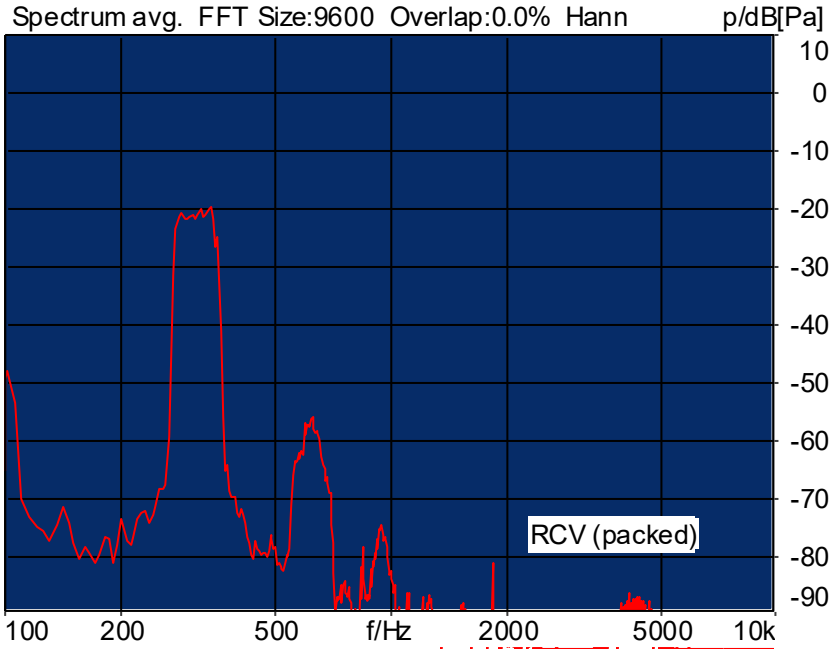
Used Setting	TIA5050

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-24.4



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

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

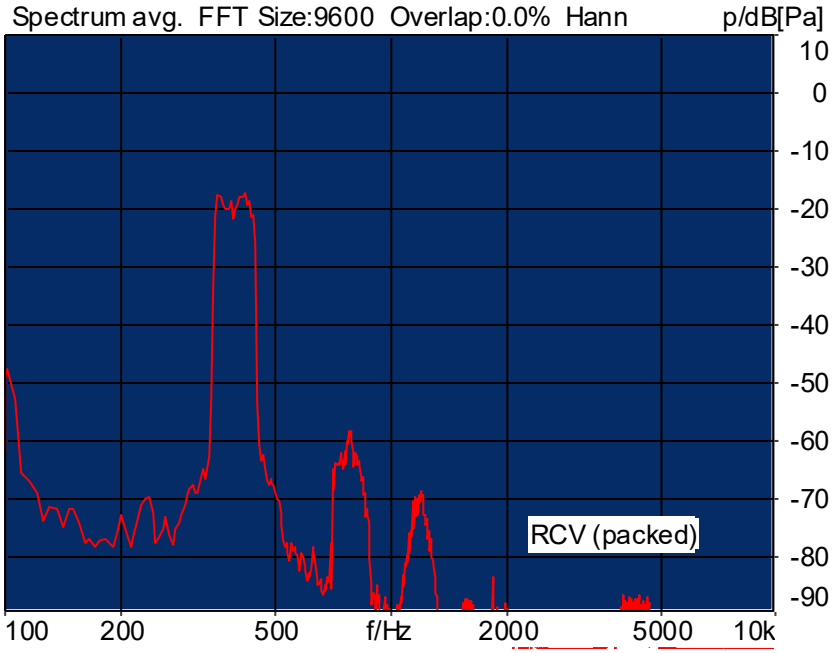
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 41.31 dB (0.86%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

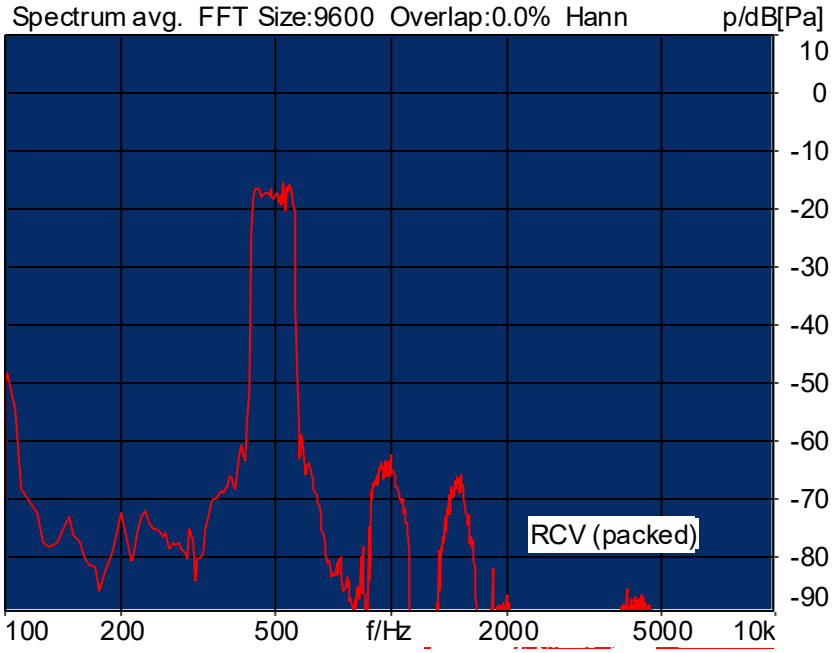
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 43.76 dB (0.65%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

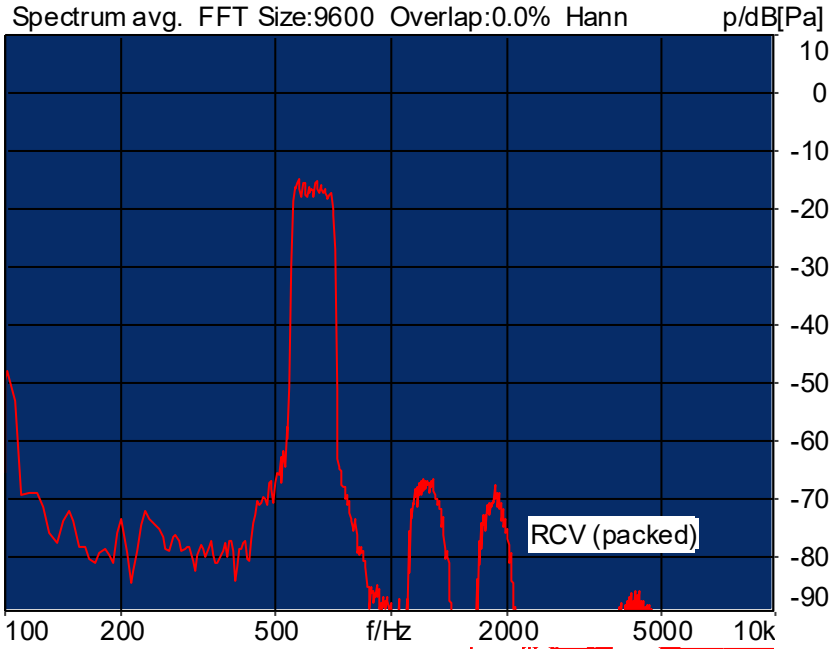
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 46.44 dB (0.48%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

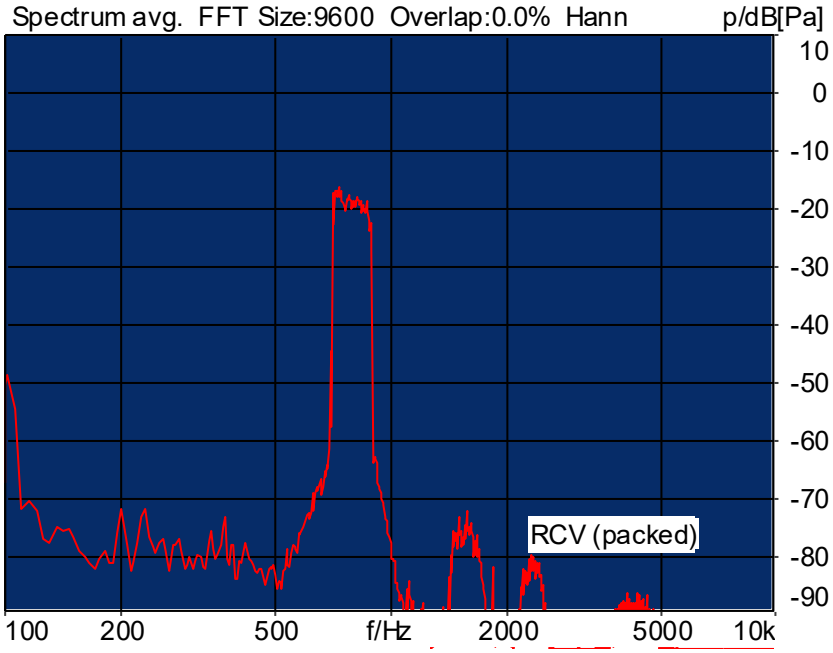
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 49.59 dB (0.33%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

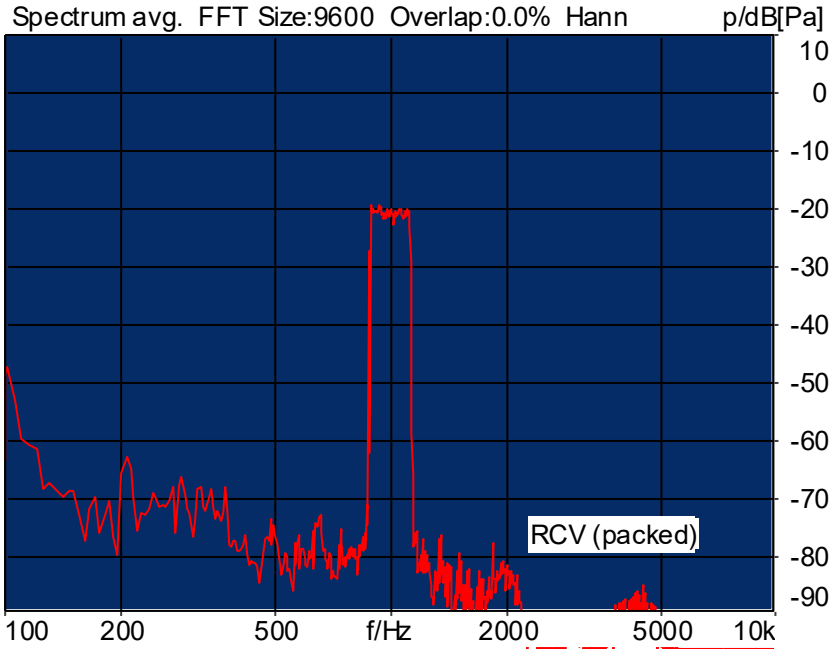
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 50.48 dB (0.30%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

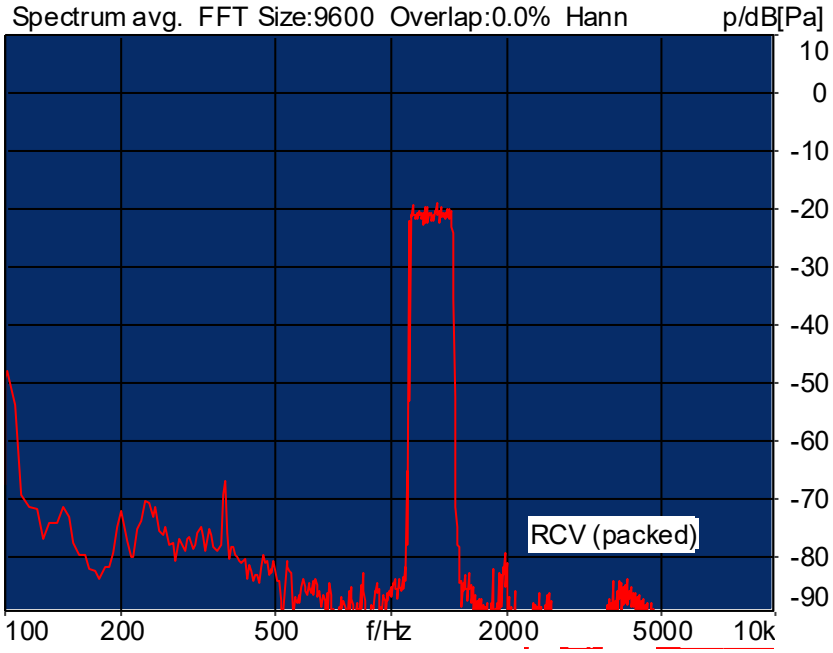
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.93 dB (2.53%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

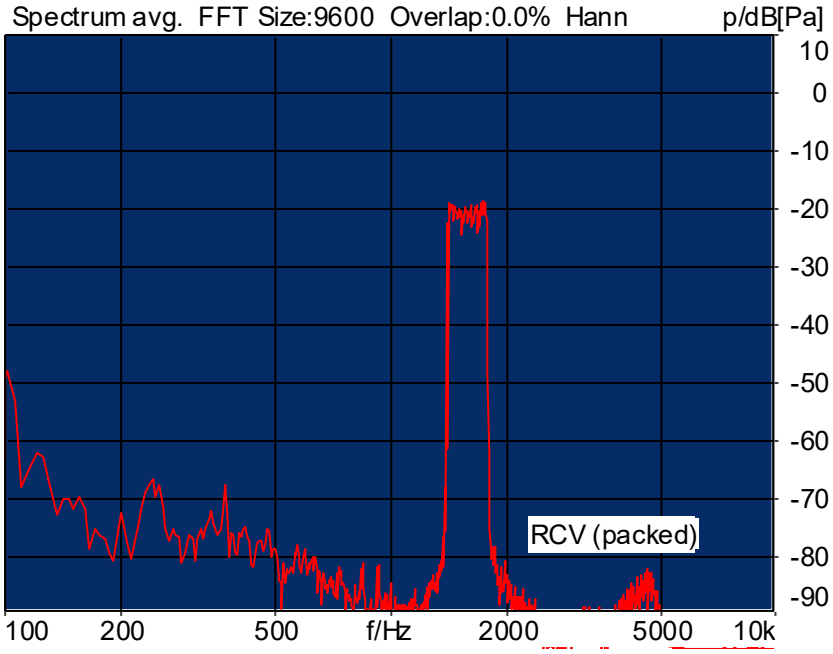
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 53.63 dB (0.21%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

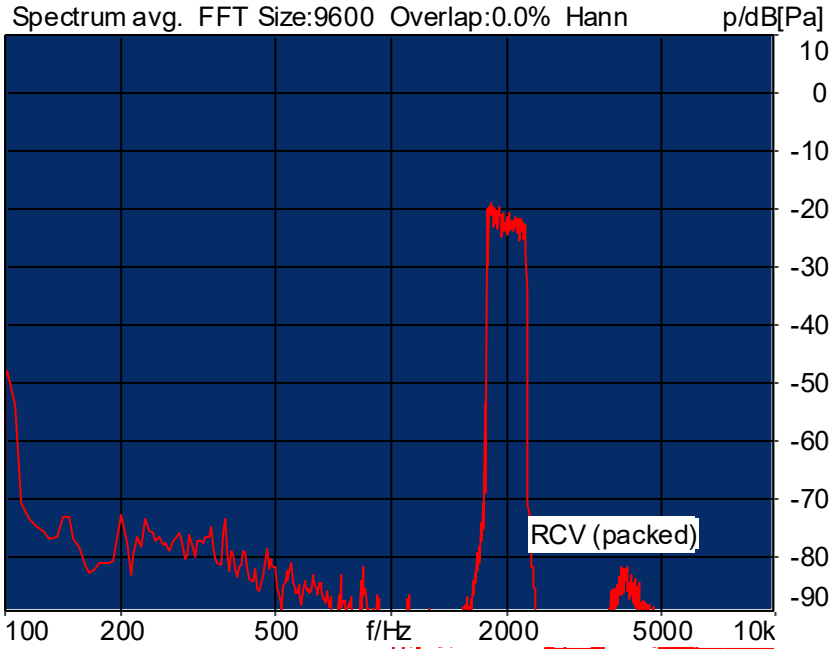
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 53.91 dB (0.20%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

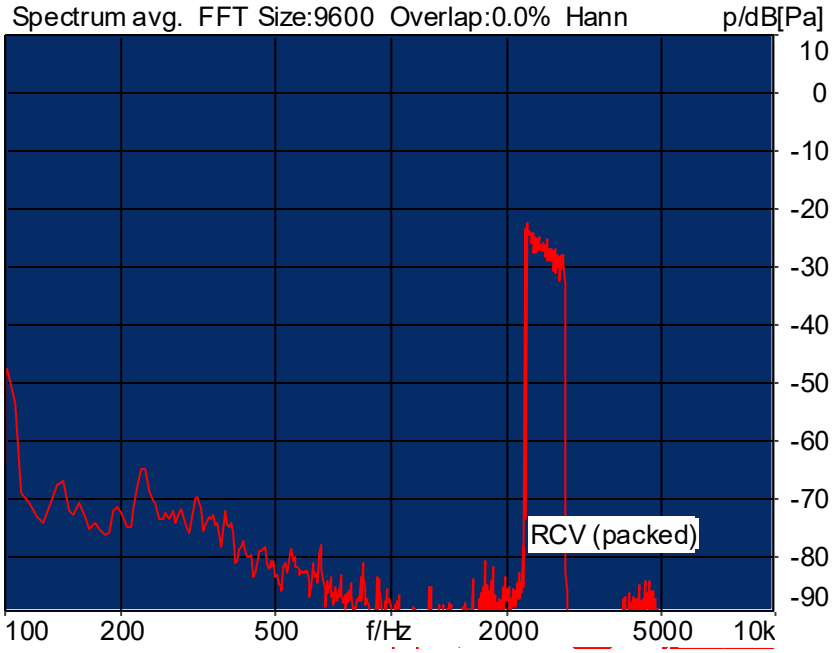
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 50.39 dB (0.30%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

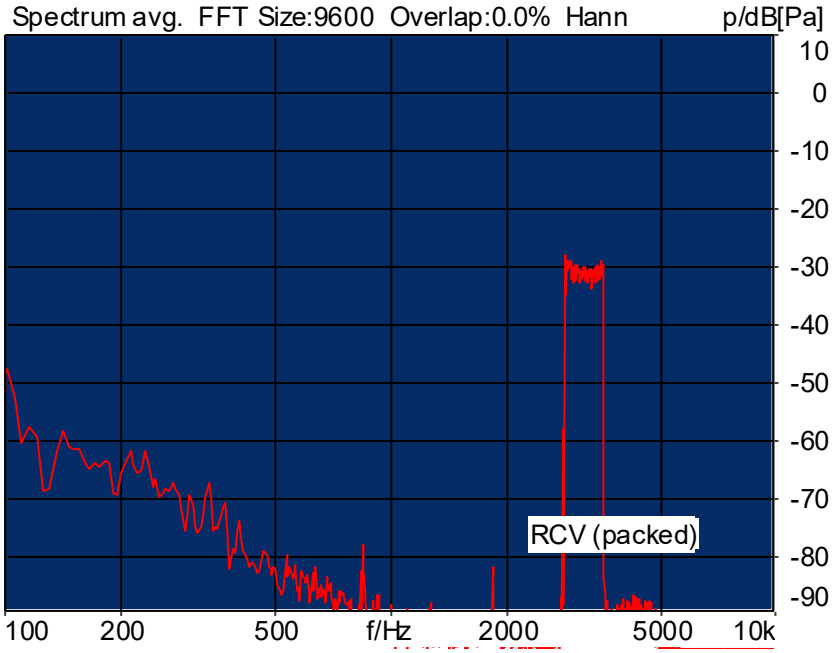
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 44.71 dB (0.58%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

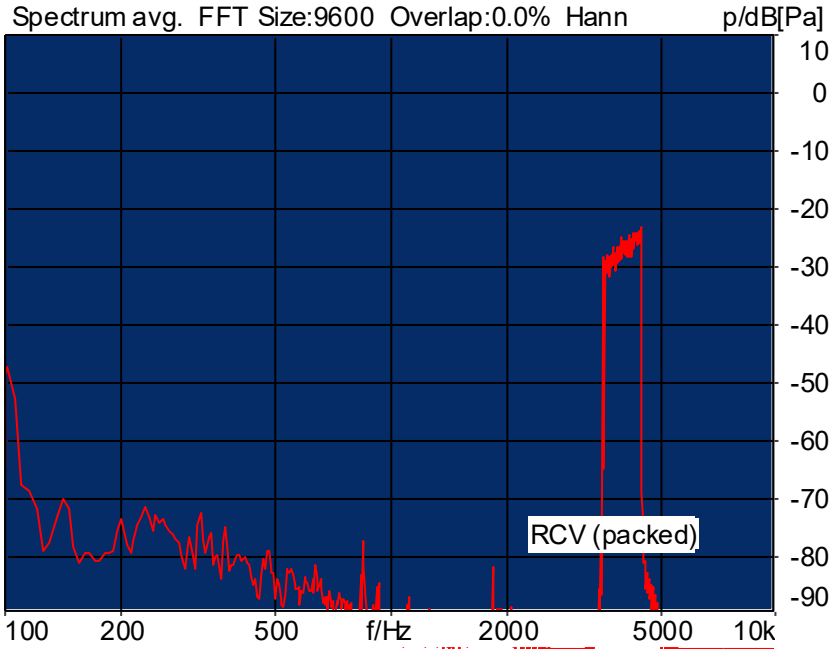
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 53.55 dB (0.21%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

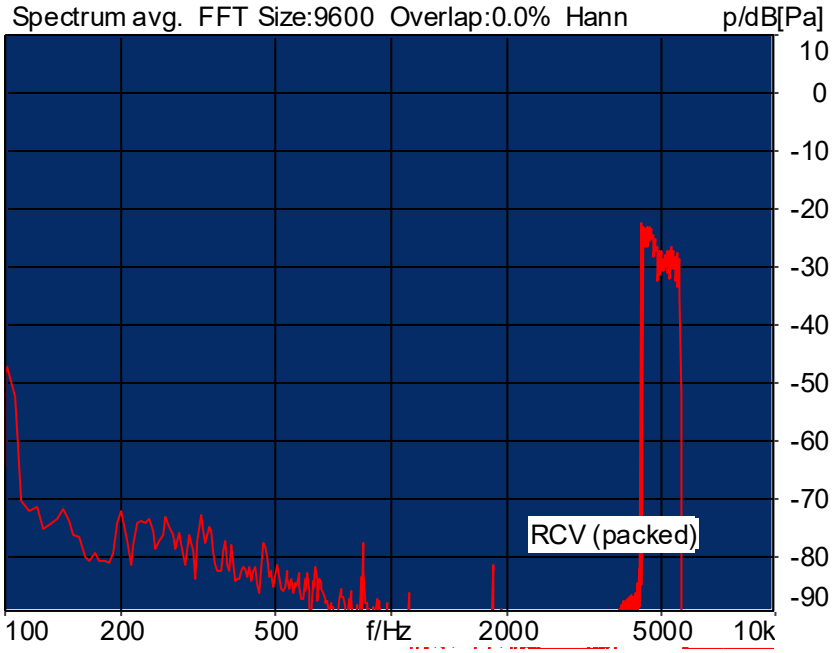
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 55.11 dB (0.18%) Ok

Ok

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Limits

lower
20.00 dB

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	101.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

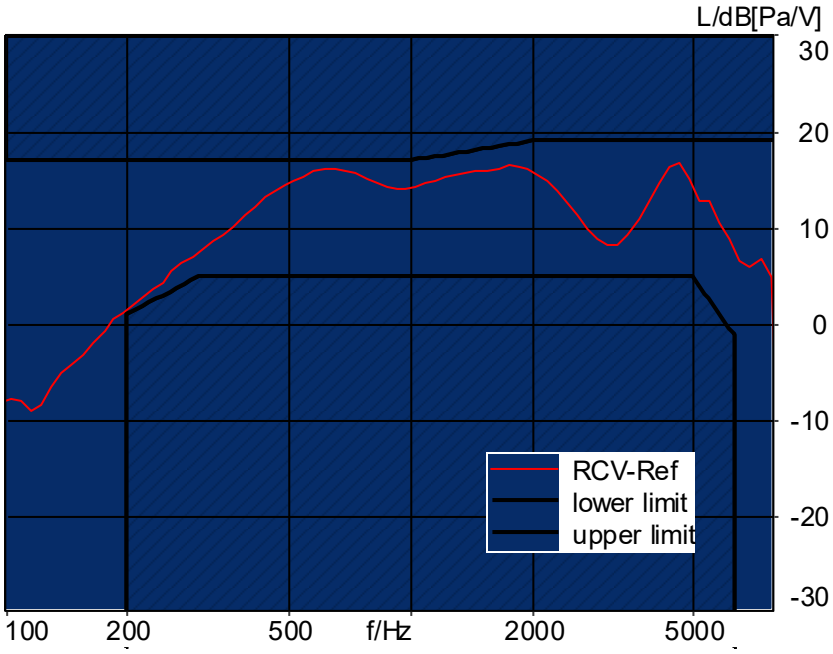
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.81 dB at 611.7 Hz Ok

Ok

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Limits

lower
Fit into tolerance

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	101.8000 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#)

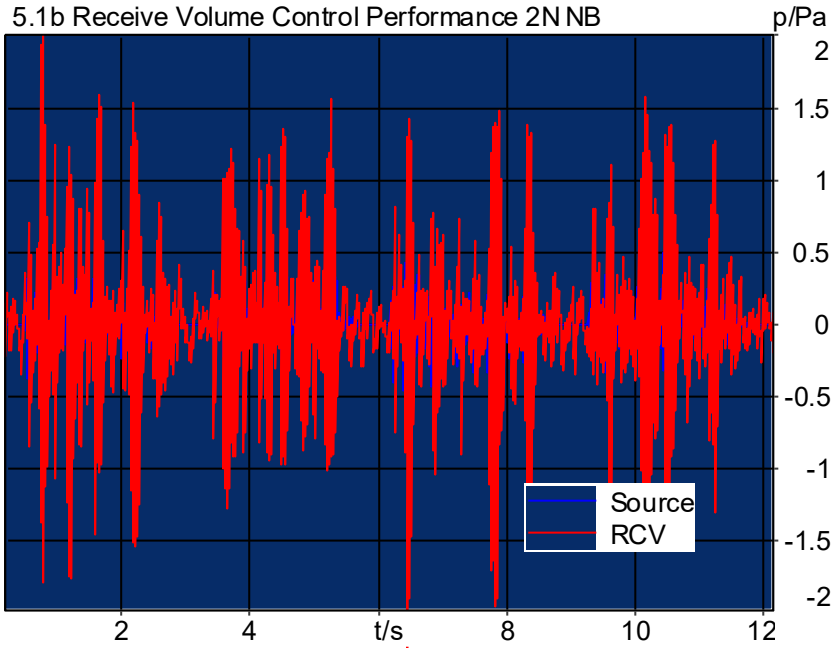
Measurement Object	Ti-CC26050303-LTEB14

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.68	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.45	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.74	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.66	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.92	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.83	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.58	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.52	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.17	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.04	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.59	Ti-CC26050303-LTEB14
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	0.98	Ti-CC26050303-LTEB14

5.1b Receive Volume Control Performance 2N NB

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



Channel	Speech level	Activity	
RCV	80.68 dB[SPL]	80.52%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)

Channels	2

Hardware Config Settings

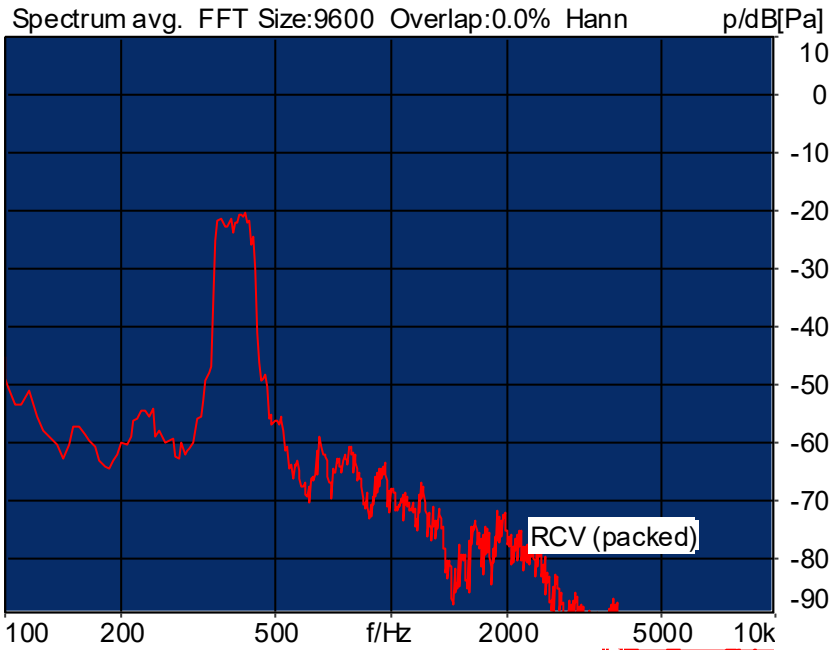
Used Setting	TIA5050

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): 33.45 dB (2.12%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

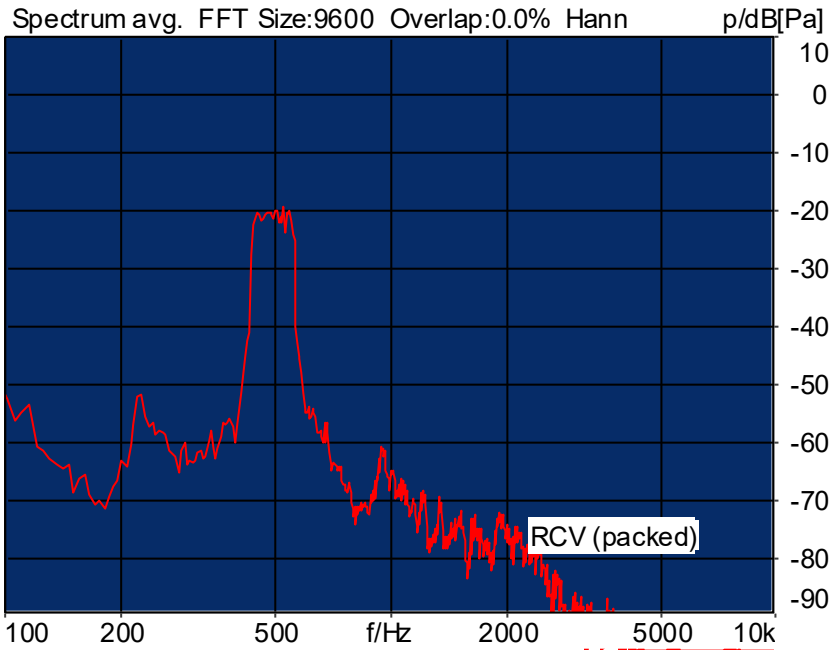
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 34.74 dB (1.83%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

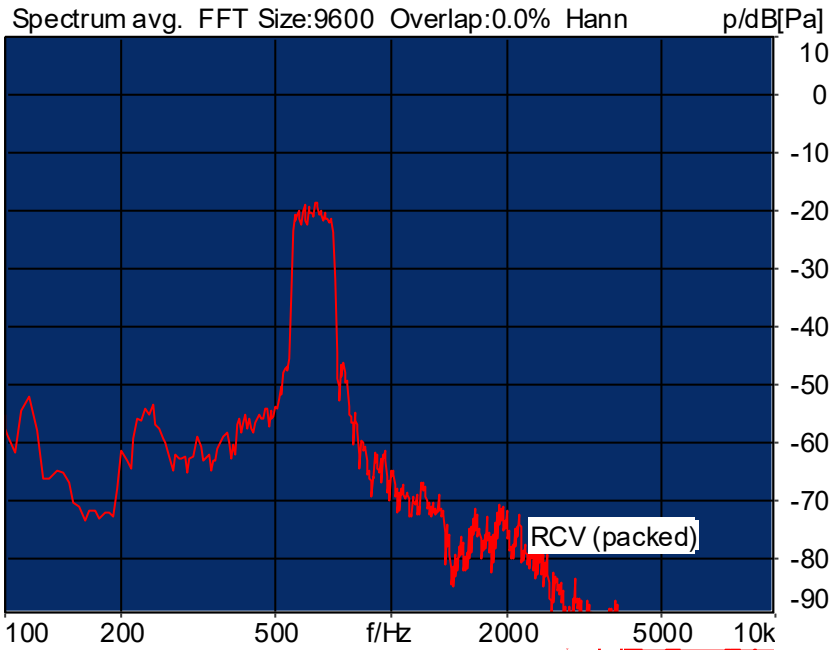
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 32.66 dB (2.33%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

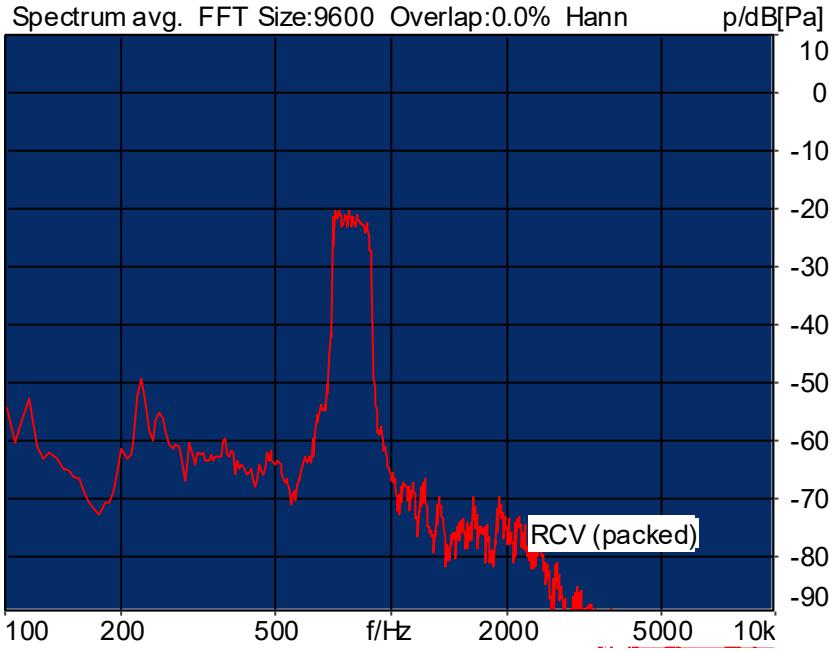
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 35.92 dB (1.60%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

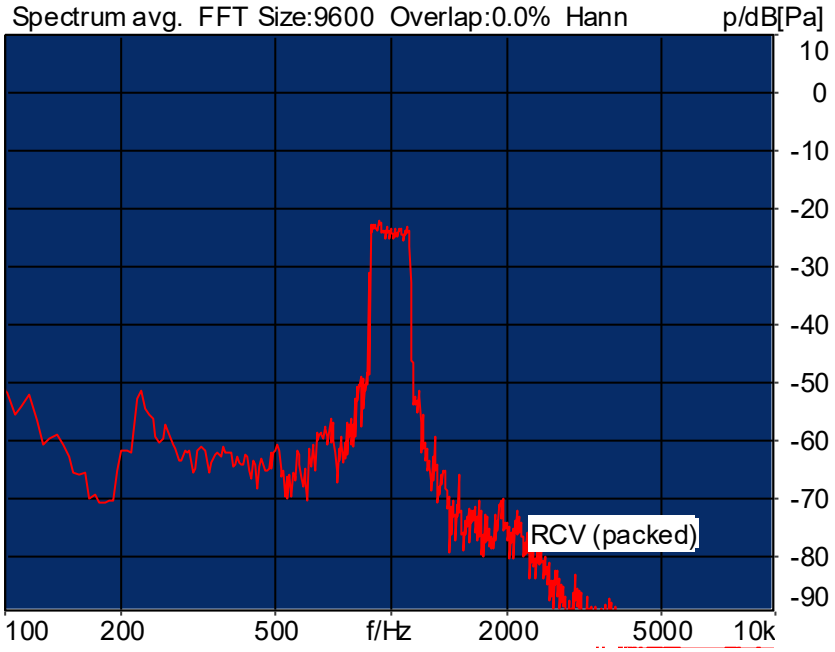
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 30.83 dB (2.87%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

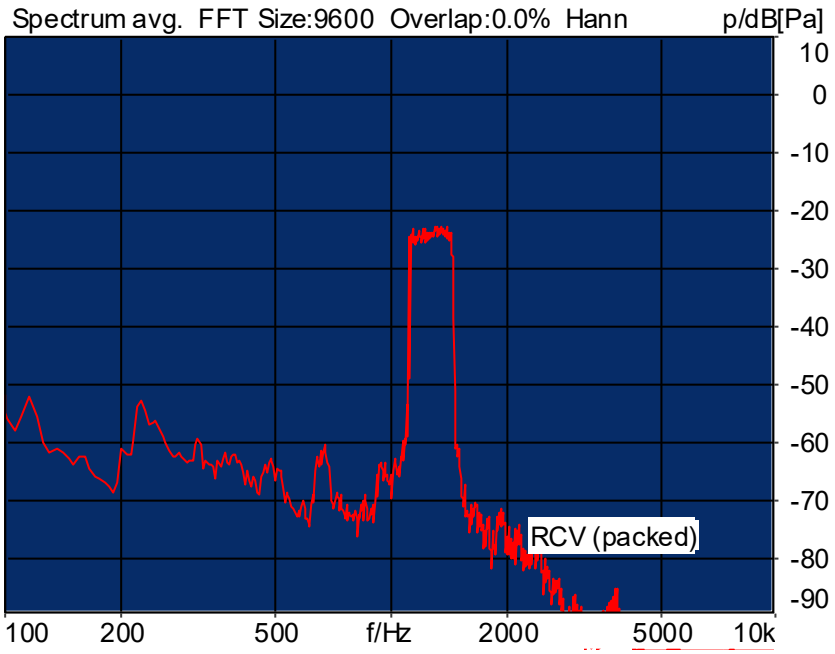
Used Setting	TIA5050

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 2N



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

Ok

2026/6/6 3:59 ACQUA 6.2.100

Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

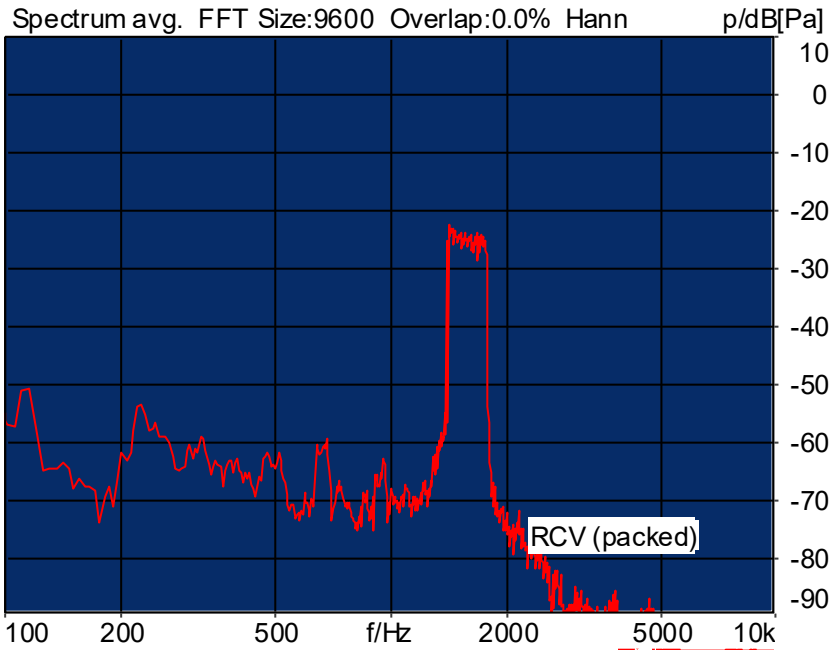
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 36.52 dB (1.49%) Ok

Ok

2026/6/6 3:59 ACQUA 6.2.100

Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

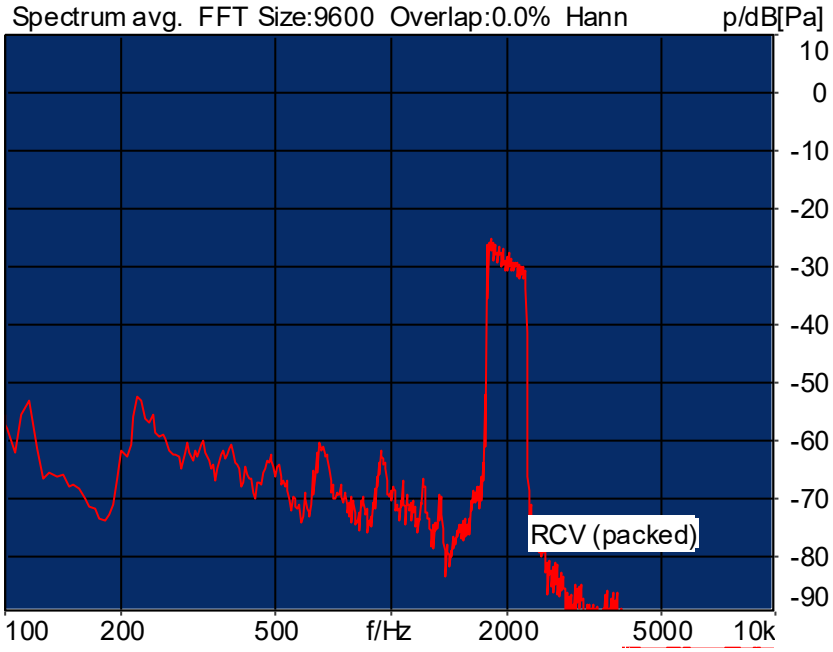
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 35.17 dB (1.74%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

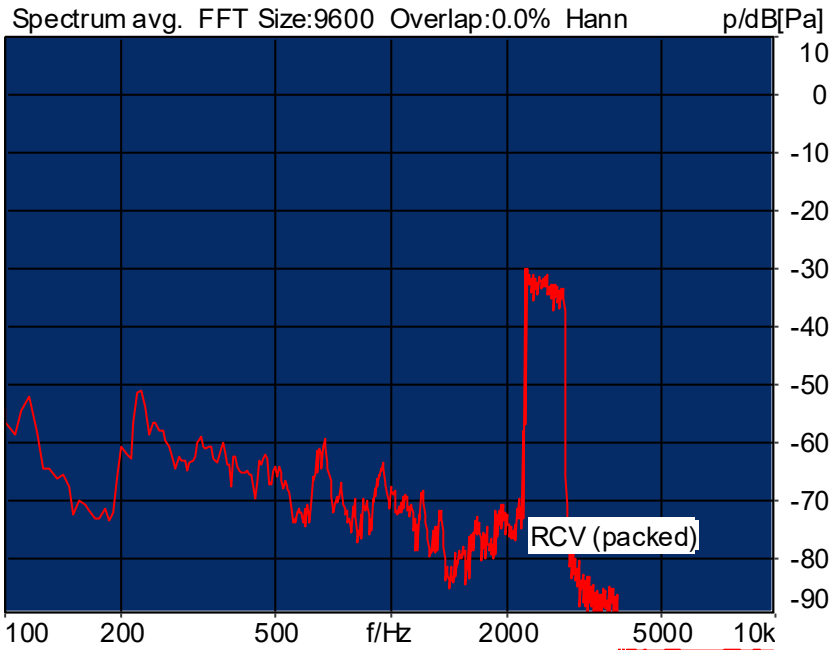
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 32.04 dB (2.50%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

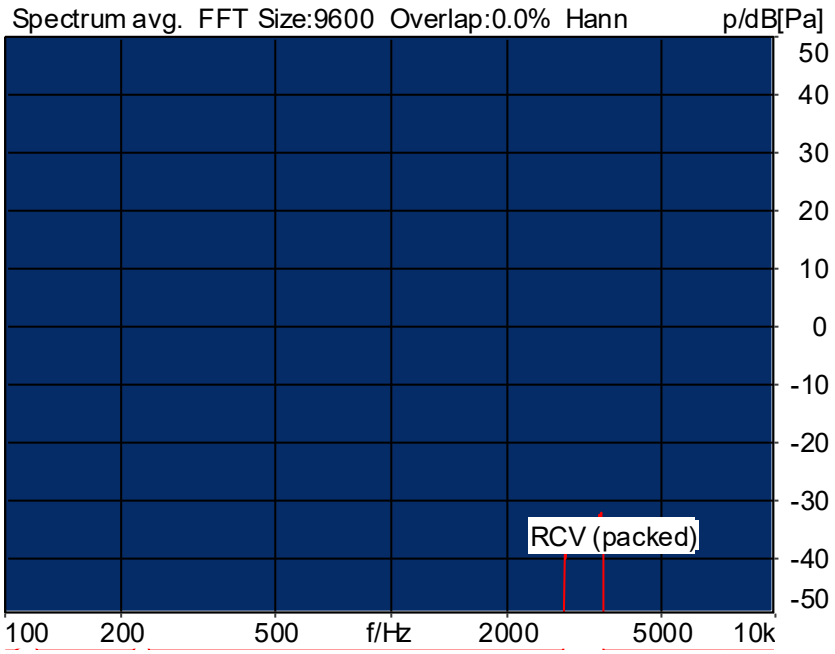
Used Setting	TIA5050

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 2N



Distortion (Noise) RCV (packed): 31.59 dB (2.63%) Ok

Ok

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Limits

lower
20.00 dB

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	90.7000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

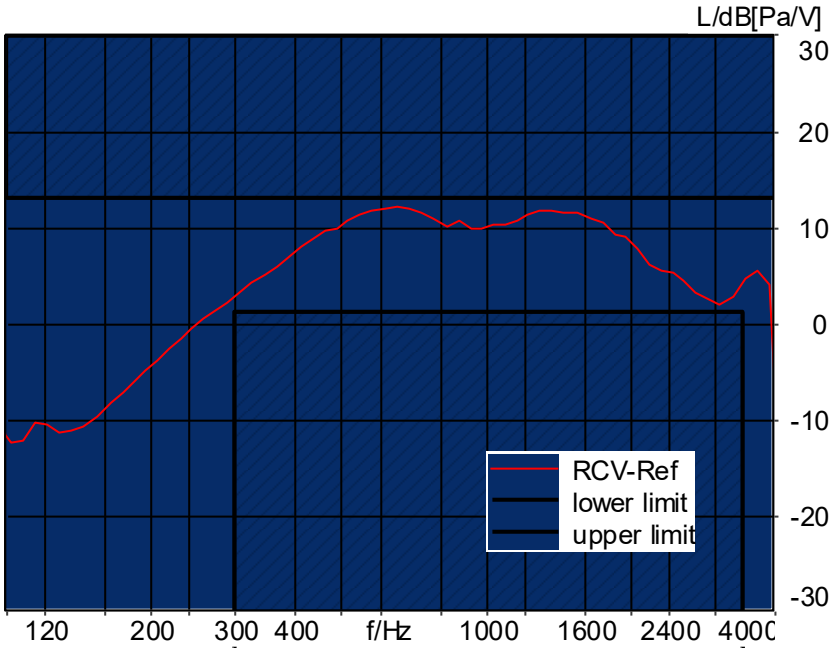
Used Setting	TIA5050

MFE VI Settings

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

5.3 Frequency Response 2N FF HANB

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



Absolute minimal distance

0.98 dB at 649.1 Hz Ok

Ok

2026/6/6 4:01 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	90.7000 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(12#)

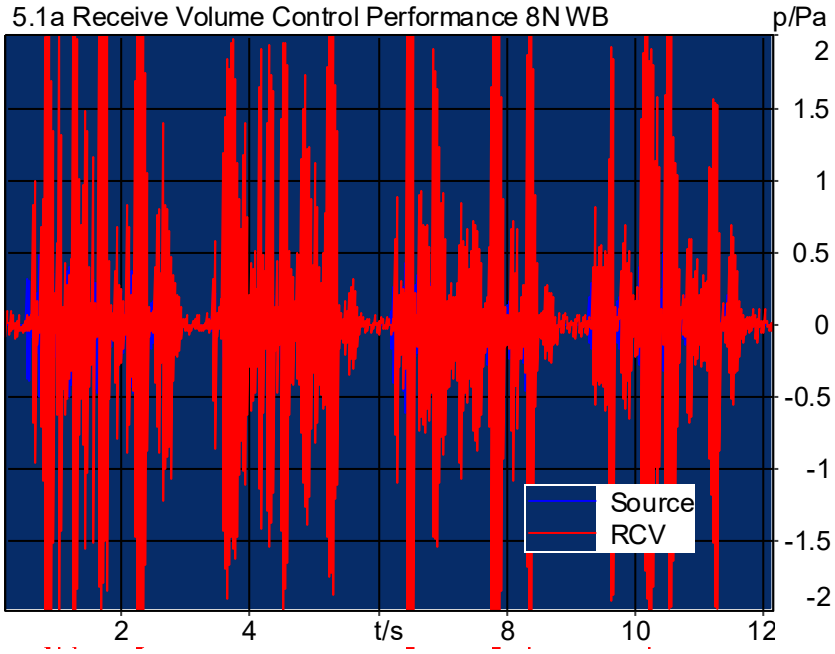
Measurement Object	Ti-CC26050303-LTEB14

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.93	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.84	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.97	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.45	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.84	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.24	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.73	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.36	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.62	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.09	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.24	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.17	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.46	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.91	Ti-CC26050303-LTEB14
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.35	Ti-CC26050303-LTEB14
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.88	Ti-CC26050303-LTEB14

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	84.93 dB[SPL]	82.00%	Ok

Ok

2026/6/5 11:14 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

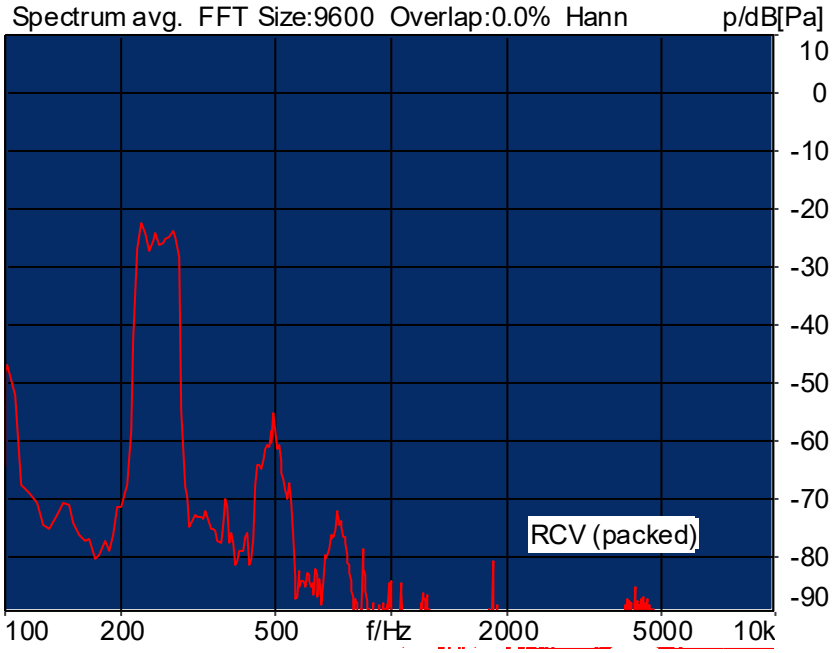
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.84 dB (1.44%) Ok

Ok

2026/6/5 11:14 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

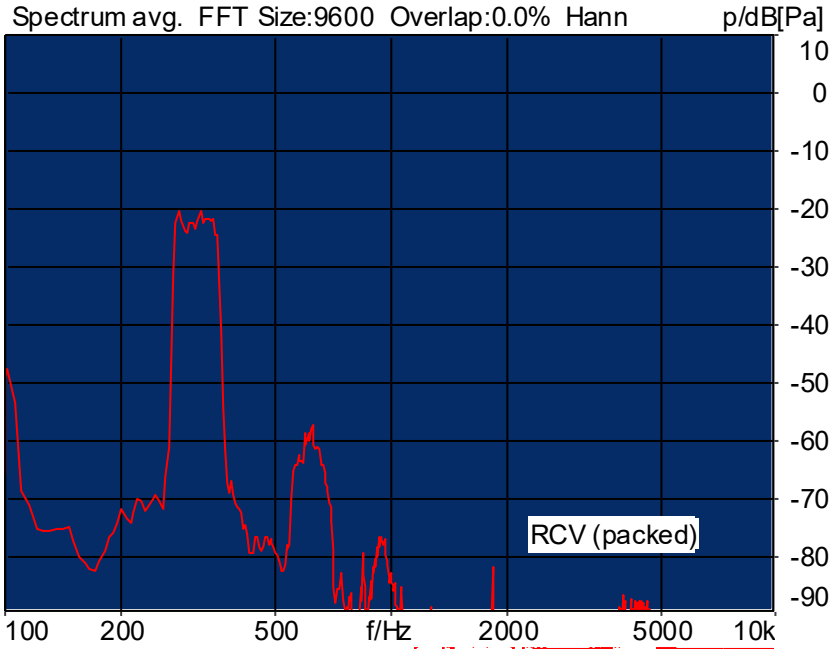
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 38.97 dB (1.13%) Ok

Ok

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Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

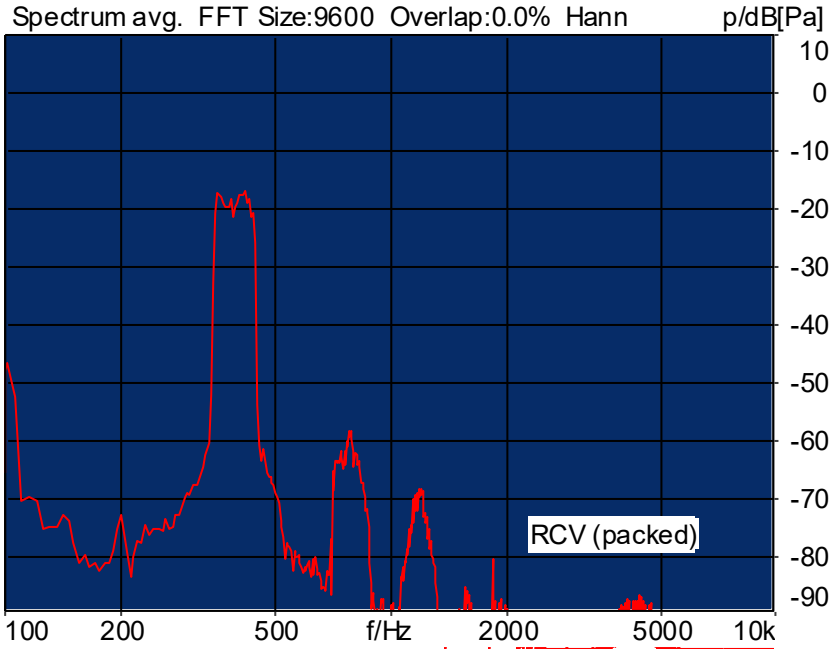
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 41.45 dB (0.85%) Ok

Ok

2026/6/5 11:15 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

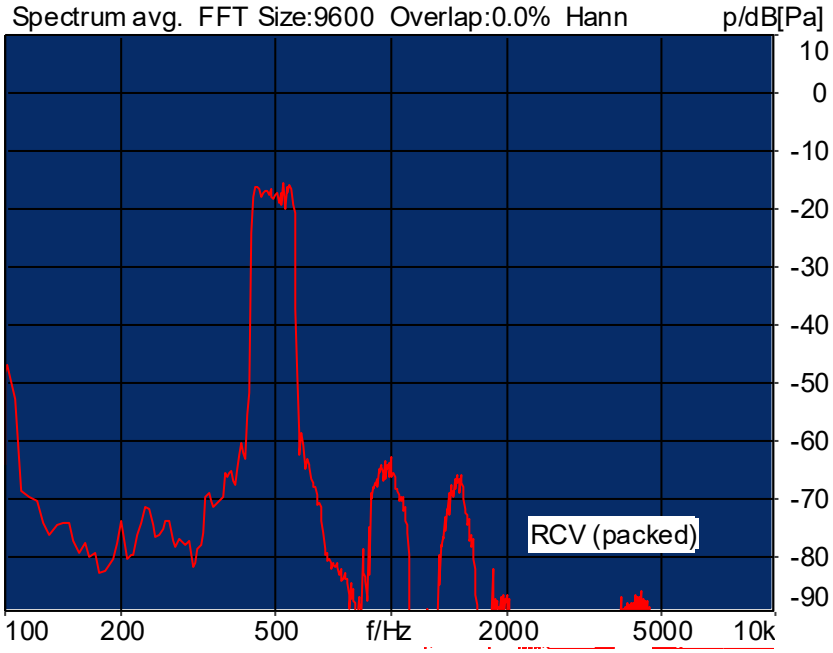
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 43.84 dB (0.64%) Ok

Ok

2026/6/5 11:15 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

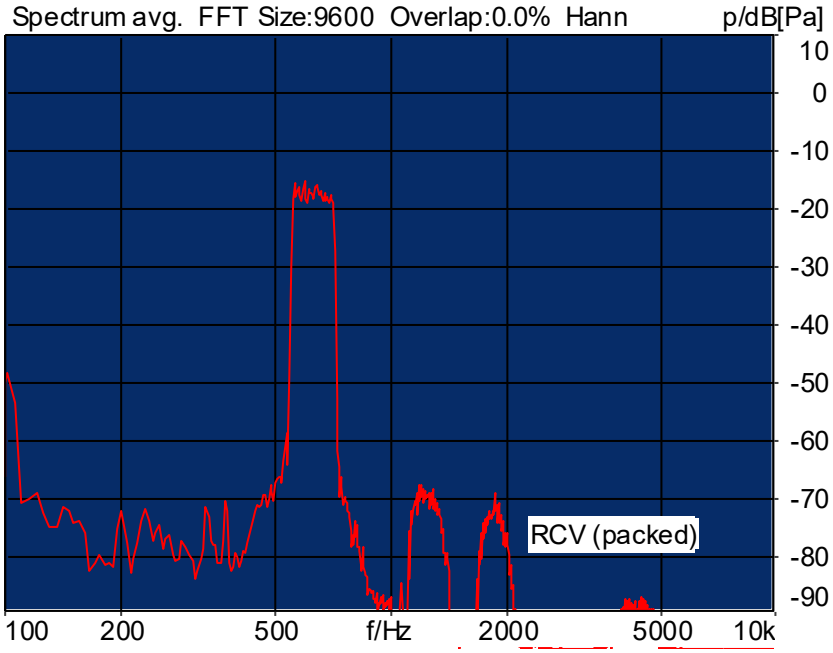
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 47.24 dB (0.43%) Ok

Ok

2026/6/5 11:16 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

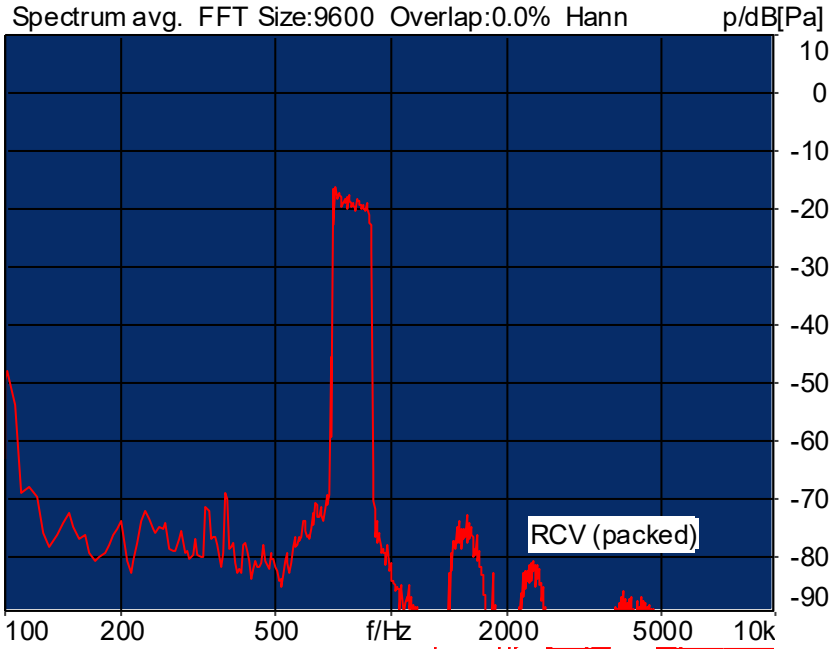
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 50.73 dB (0.29%) Ok

Ok

2026/6/5 11:16 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

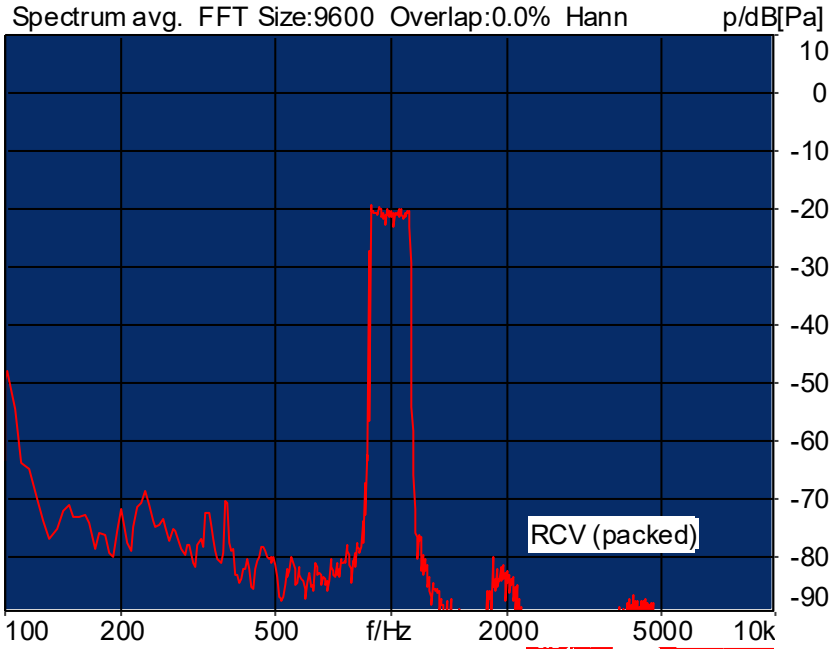
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 52.36 dB (0.24%) Ok

Ok

2026/6/5 11:17 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

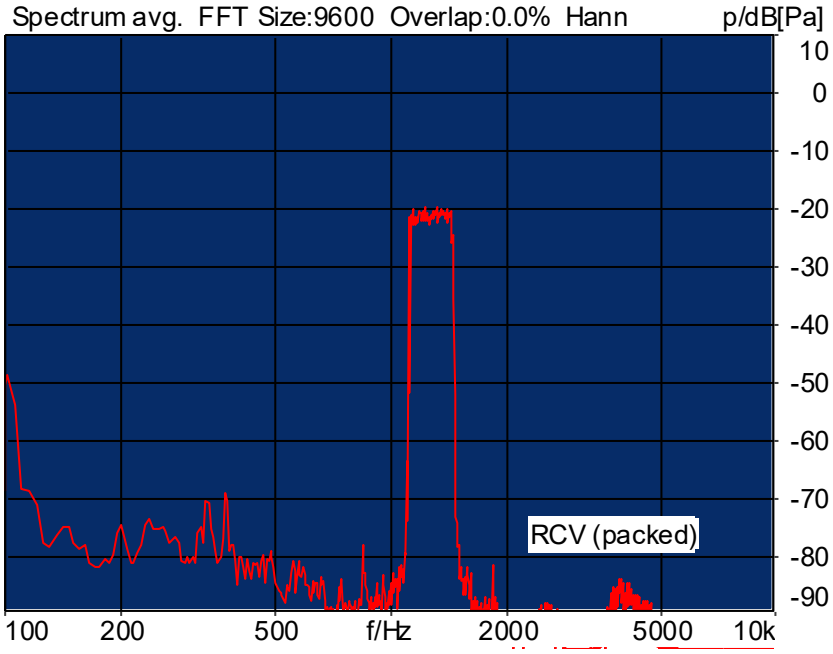
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.62 dB (2.62%) Ok

Ok

2026/6/5 11:17 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

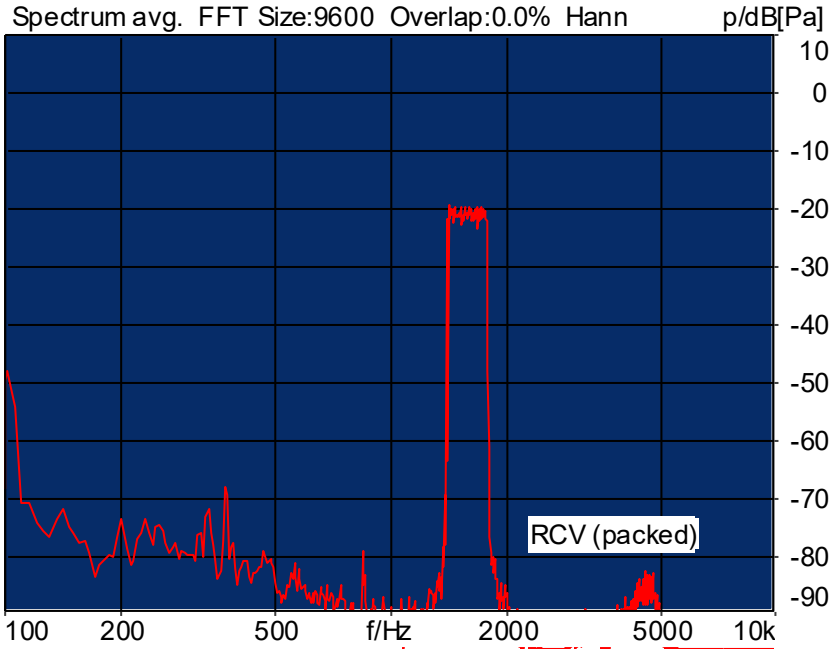
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 55.09 dB (0.18%) Ok

Ok

2026/6/5 11:17 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

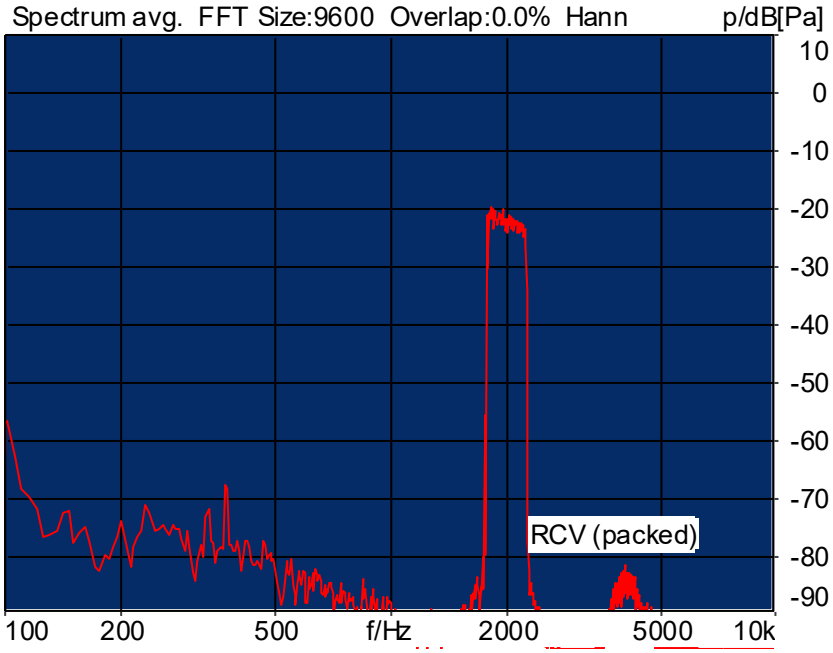
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 55.24 dB (0.17%) Ok

Ok

2026/6/5 11:18 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

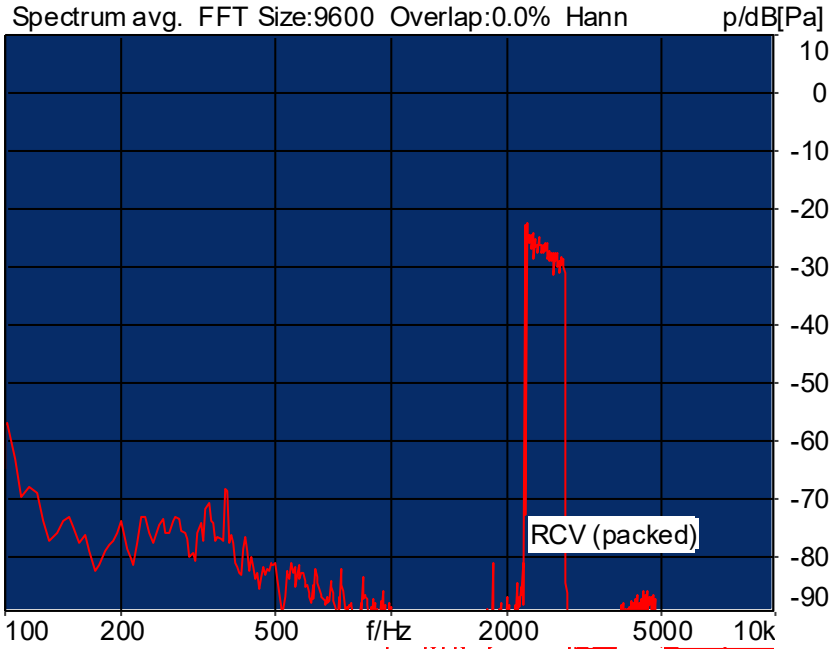
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 52.17 dB (0.25%) Ok

Ok

2026/6/5 11:18 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

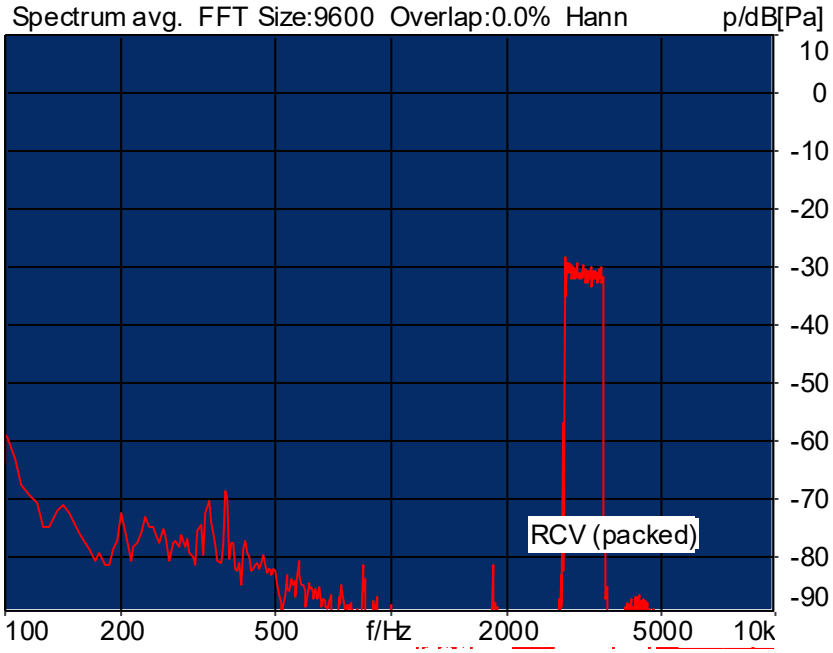
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 49.46 dB (0.34%) Ok

Ok

2026/6/5 11:18 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

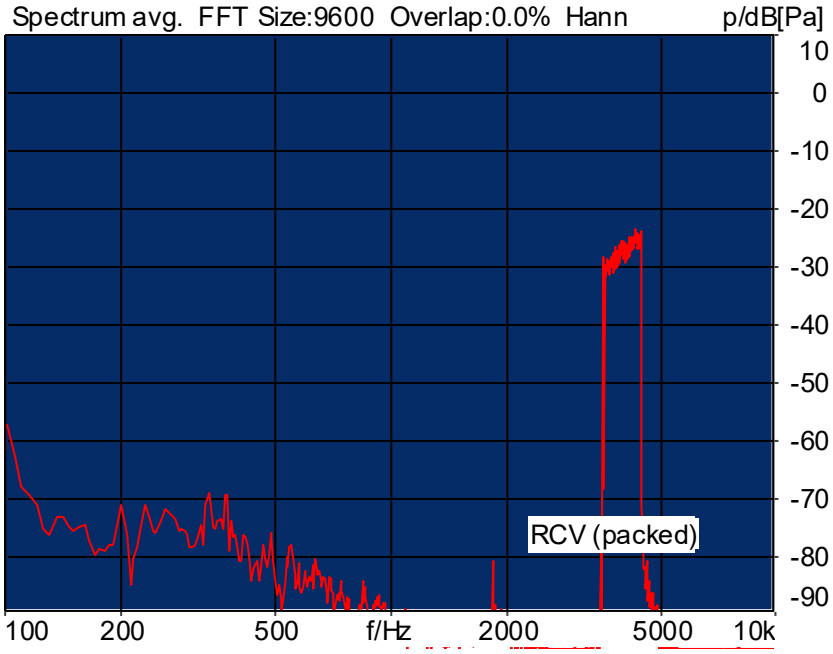
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 53.91 dB (0.20%) Ok

Ok

2026/6/5 11:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

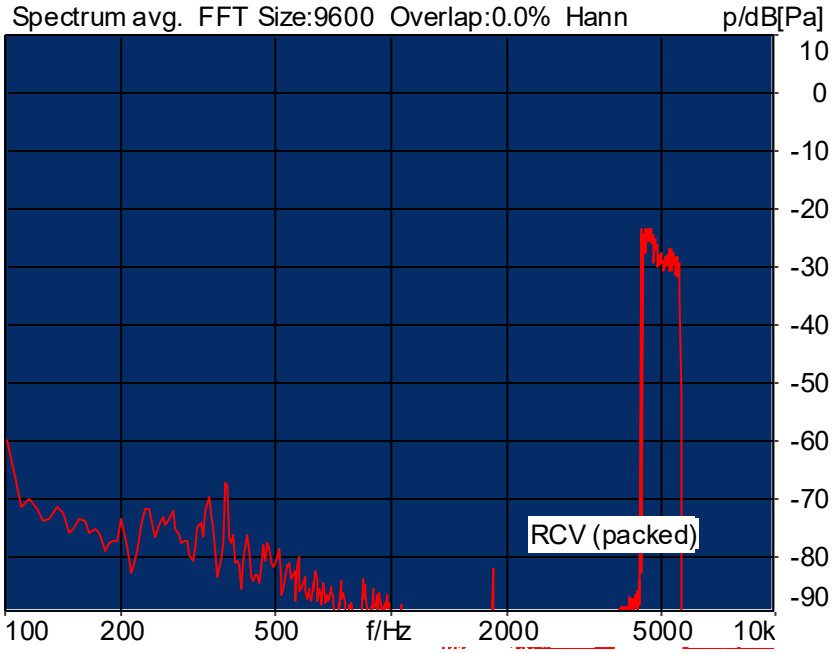
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 55.35 dB (0.17%) Ok

Ok

2026/6/5 11:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	86.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

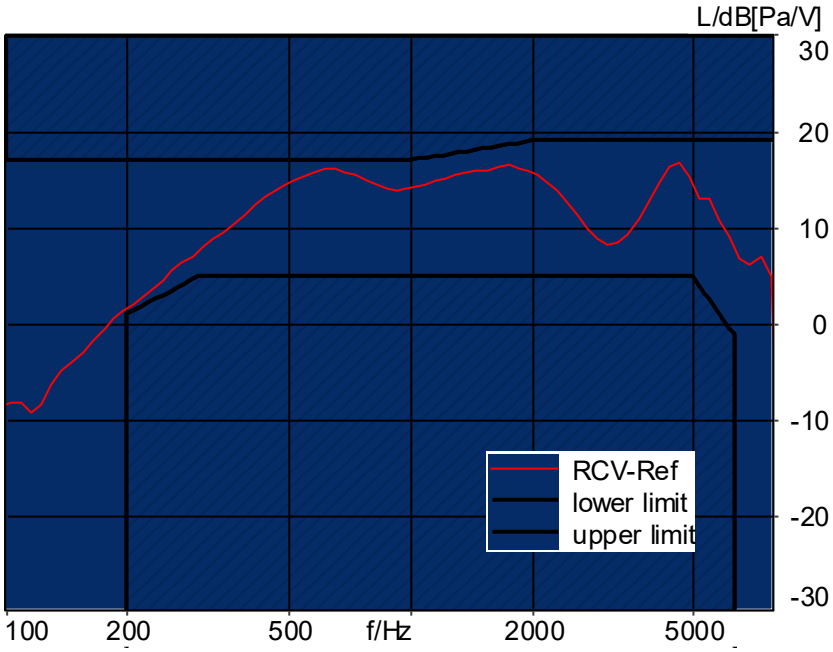
Used Setting	TIA5050

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
0.88 dB at 611.7 Hz Ok

Ok

2026/6/5 11:22 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	86.6000 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

Measurement Protocol(13#)

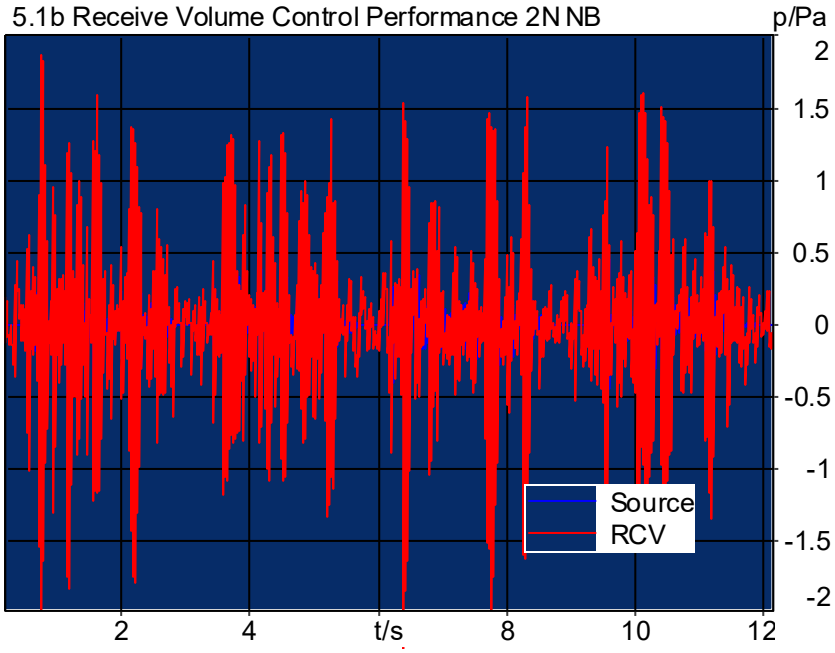
Measurement Object	Ti-CC26050303-LTEB30

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.56	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.55	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.21	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.22	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.81	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.98	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.50	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.59	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.11	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.82	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.70	Ti-CC26050303-LTEB30
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.14	Ti-CC26050303-LTEB30

5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.56 dB[SPL]	80.46%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

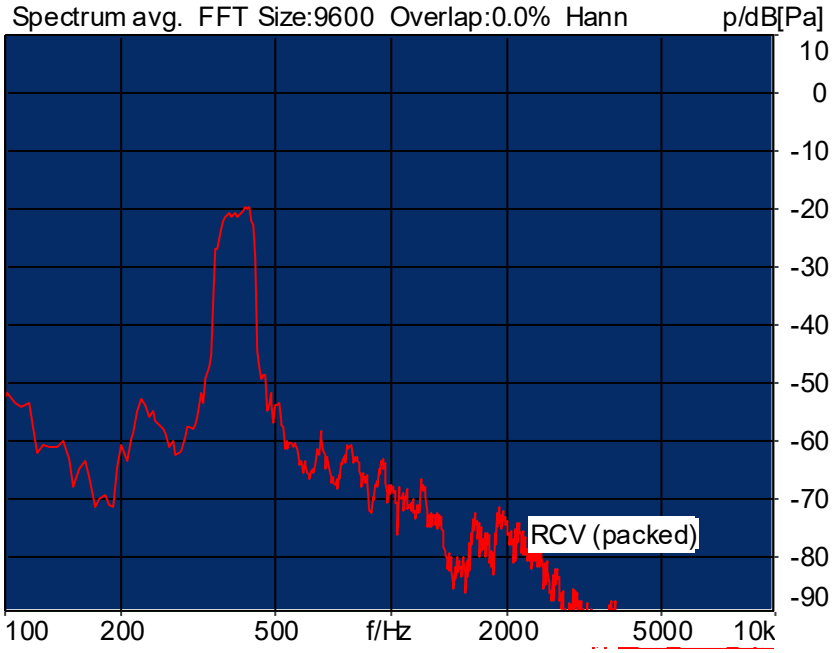
Used Setting	TIA5050

MFE VI Settings

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

5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 33.55 dB (2.10%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

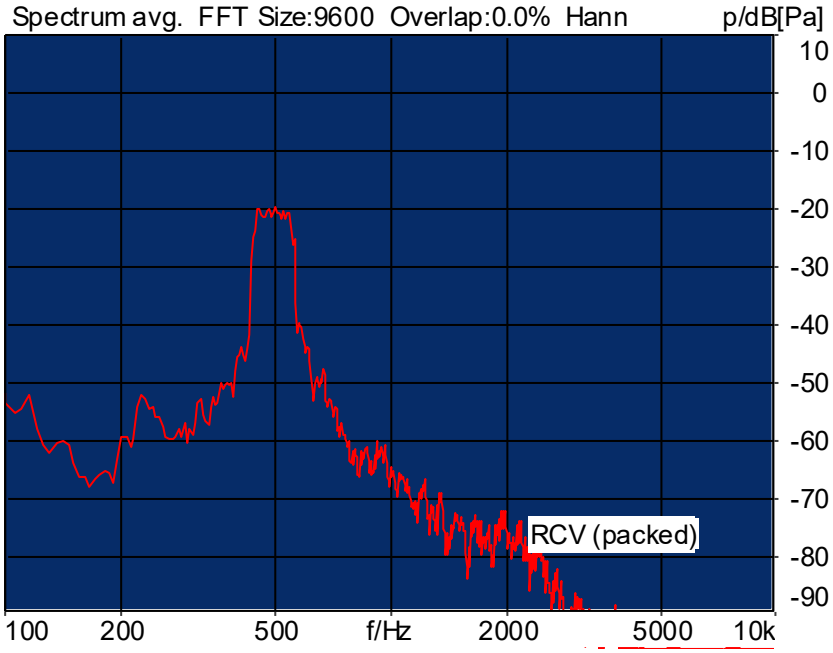
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 28.21 dB (3.89%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

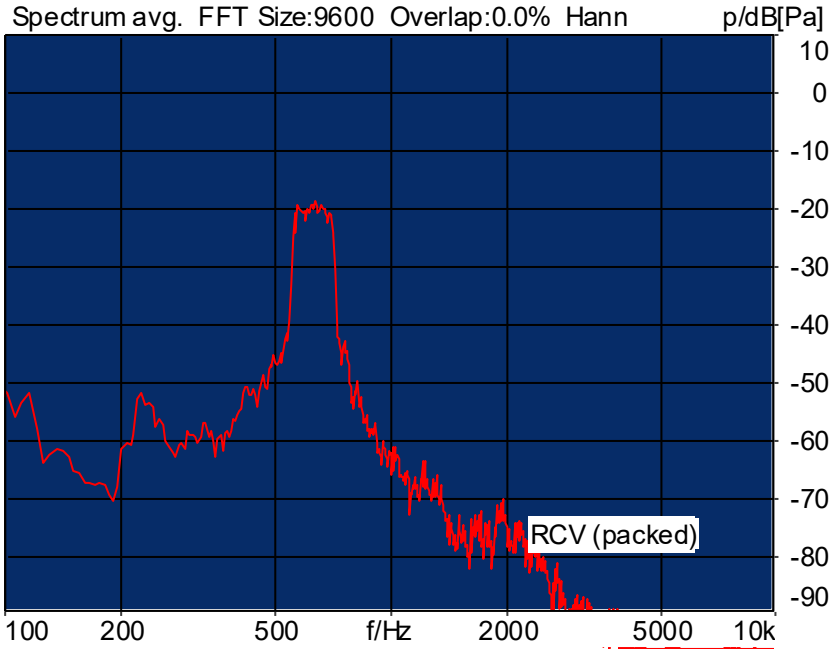
Used Setting	TIA5050

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 2N EVS-NB-5.9



Distortion (Noise) RCV (packed): 28.22 dB (3.88%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

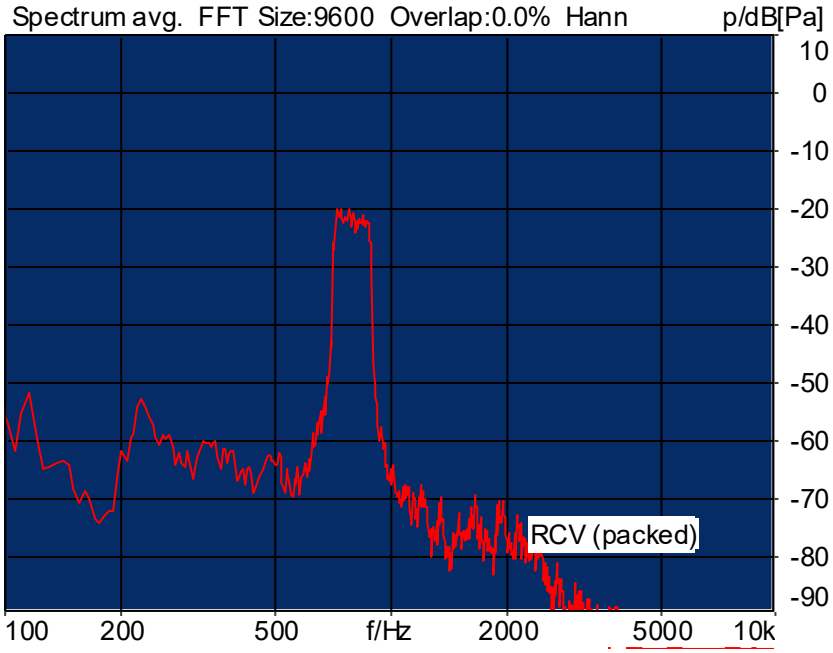
Used Setting	TIA5050

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 2N EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.81 dB (1.44%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

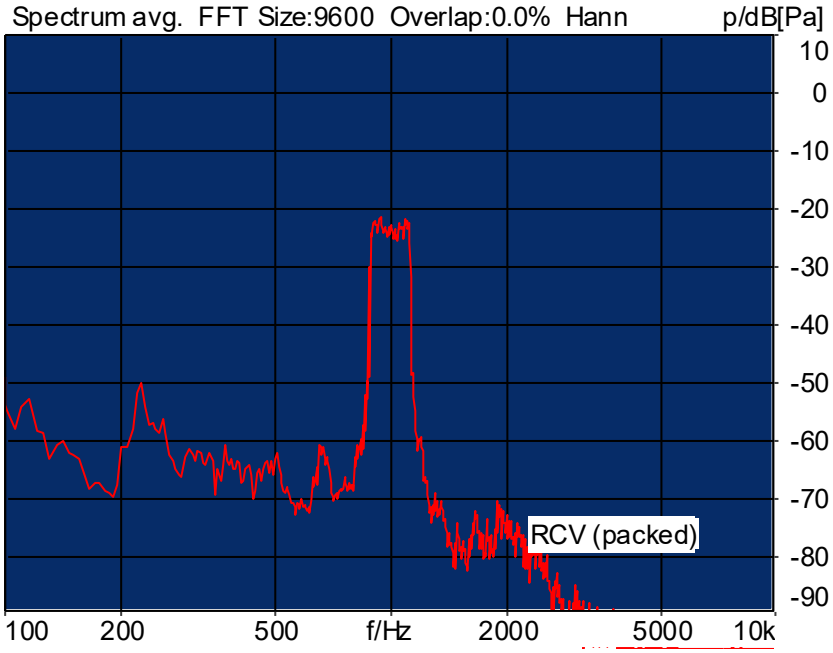
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 36.98 dB (1.42%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

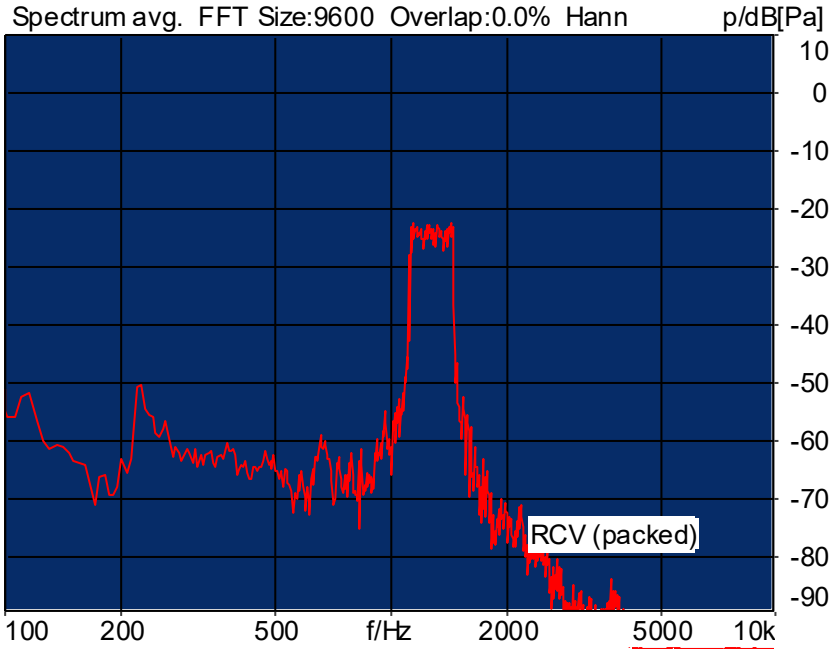
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 26.50 dB (4.73%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

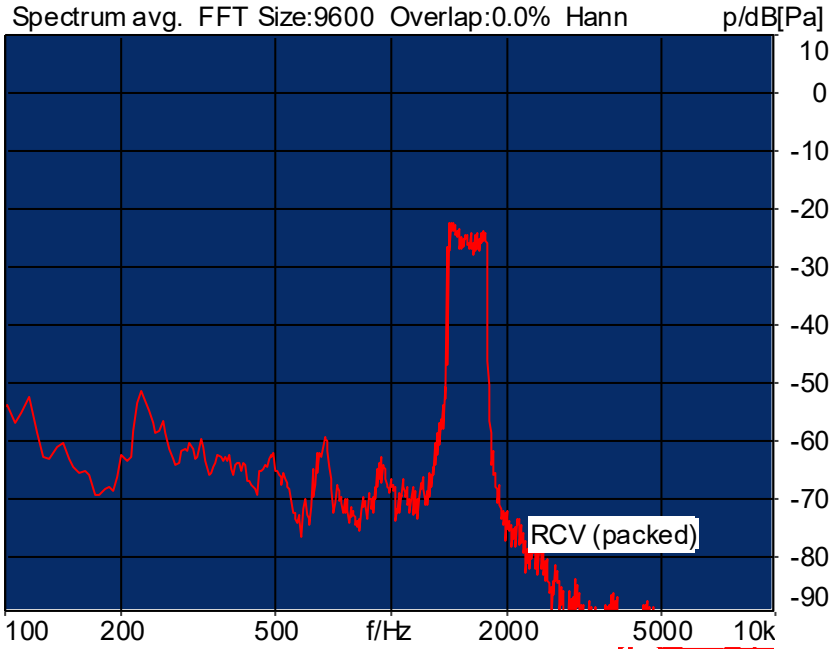
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.59 dB (1.66%) Ok

Ok

2026/6/6 4:09 ACQUA 6.2.100

Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

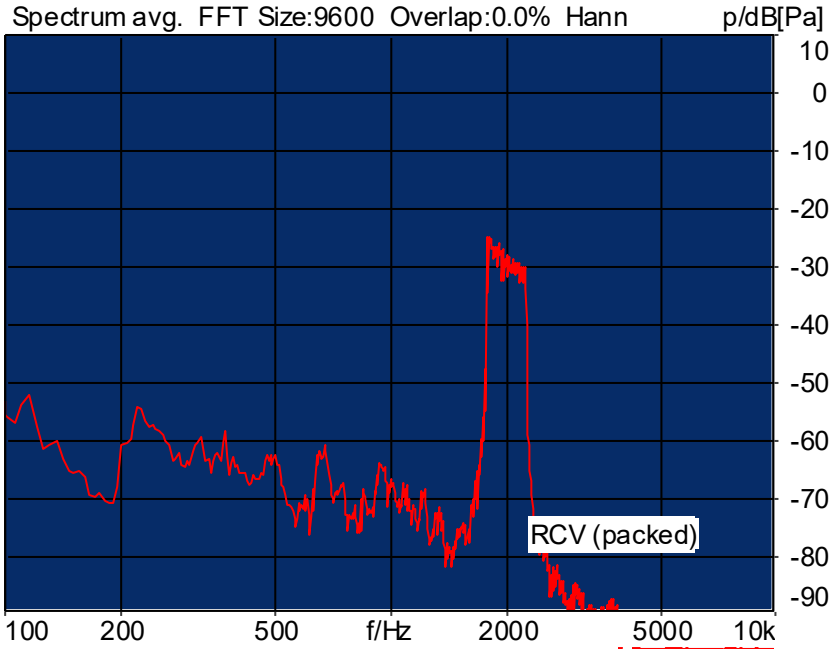
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 34.11 dB (1.97%) Ok

Ok

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Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

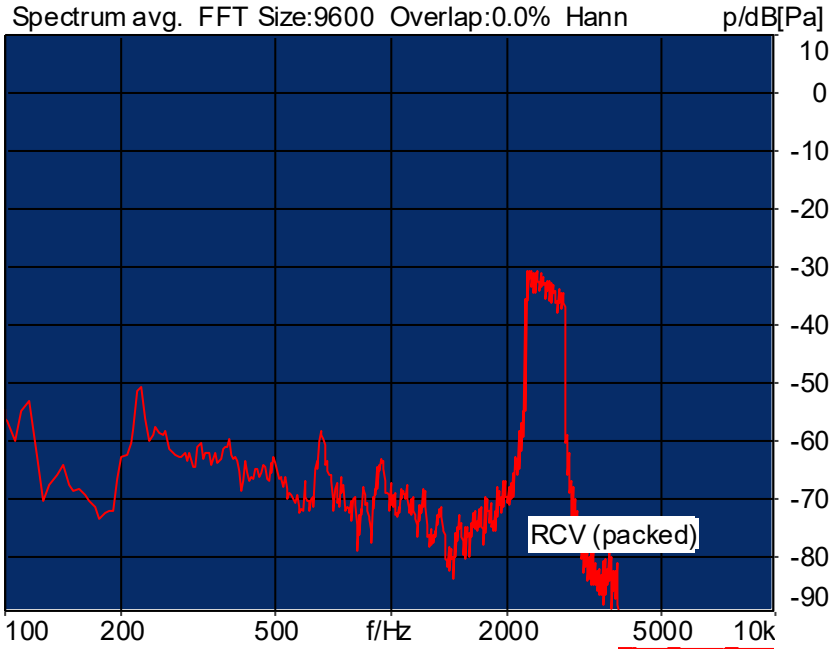
Used Setting	TIA5050

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 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 28.82 dB (3.62%) Ok

Ok

2026/6/6 4:10 ACQUA 6.2.100

Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

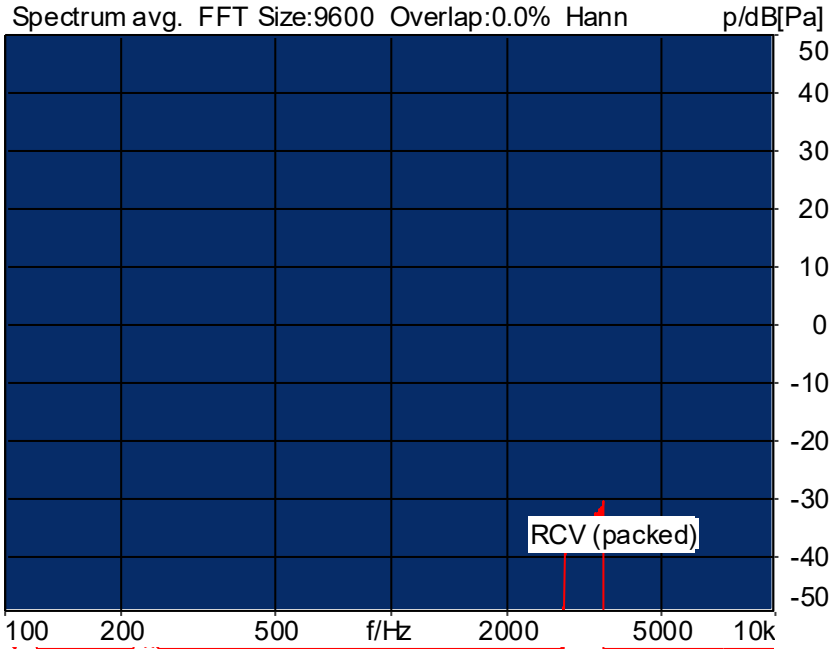
Used Setting	TIA5050

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 2N EVS-NB-5.9



Distortion (Noise) RCV (packed): 30.70 dB (2.92%) Ok

Ok

2026/6/6 4:10 ACQUA 6.2.100

Limits

lower
20.00 dB

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	143.8000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

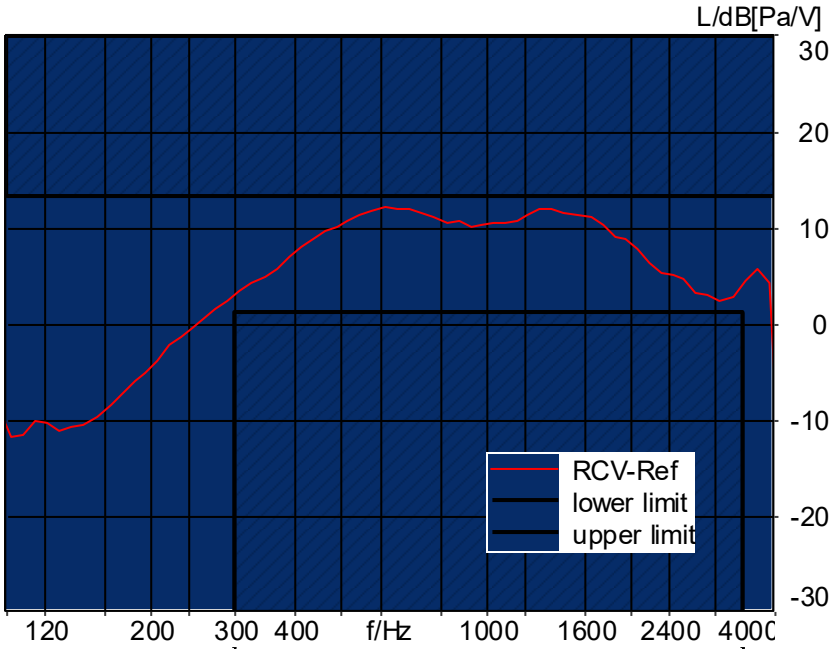
Used Setting	TIA5050

MFE VI Settings

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

5.3 Frequency Response 2N FF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Absolute minimal distance
1.14 dB at 611.7 Hz Ok

Ok

2026/6/6 4:11 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	143.8000 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(14#)

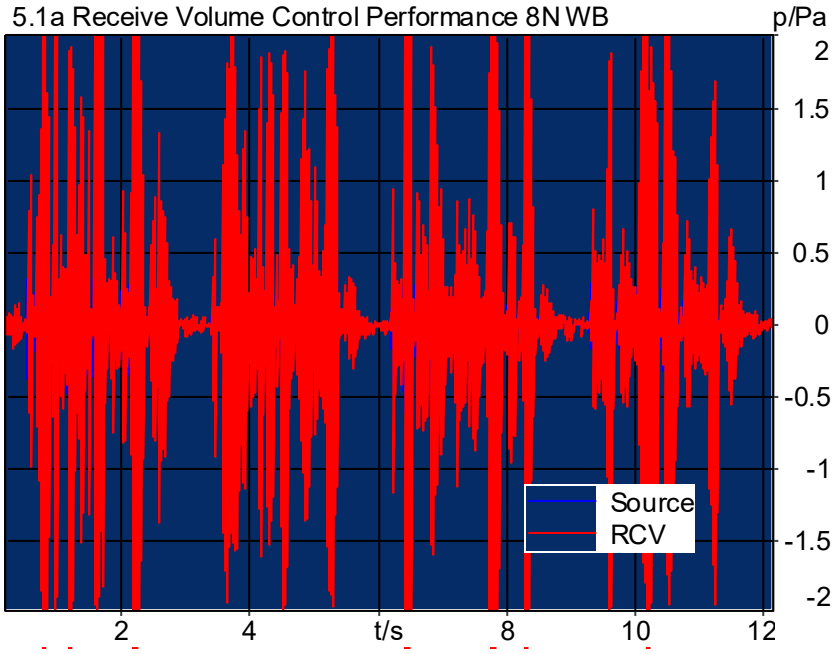
Measurement Object	Ti-CC26050303-LTEB30

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	84.89	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.15	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.91	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.32	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.84	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.51	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.96	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.07	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.58	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.74	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.70	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	51.52	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	48.52	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.02	Ti-CC26050303-LTEB30
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.33	Ti-CC26050303-LTEB30
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	1.07	Ti-CC26050303-LTEB30

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-128



Channel	Speech level	Activity	
RCV	84.89 dB[SPL]	82.04%	Ok

Ok

2026/6/5 11:04 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

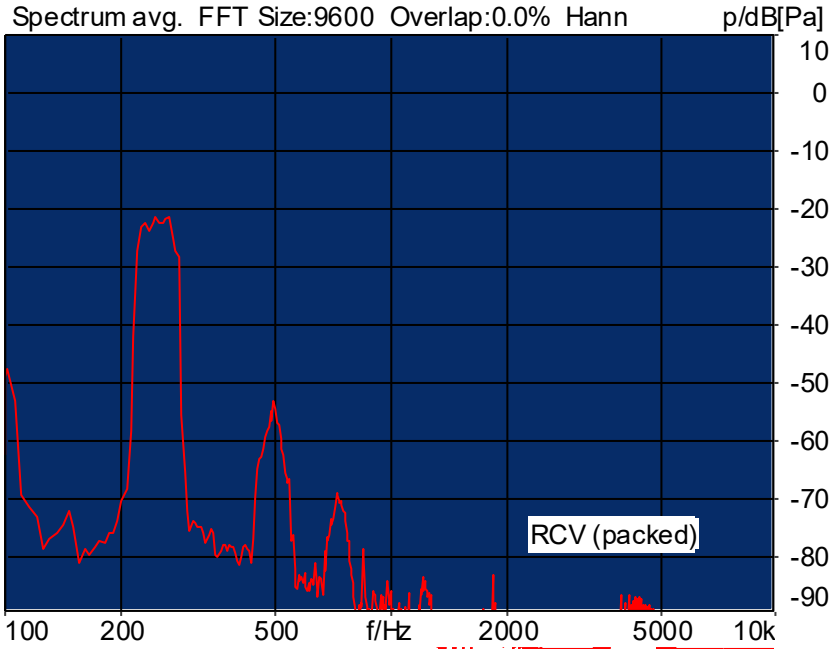
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 36.15 dB (1.56%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

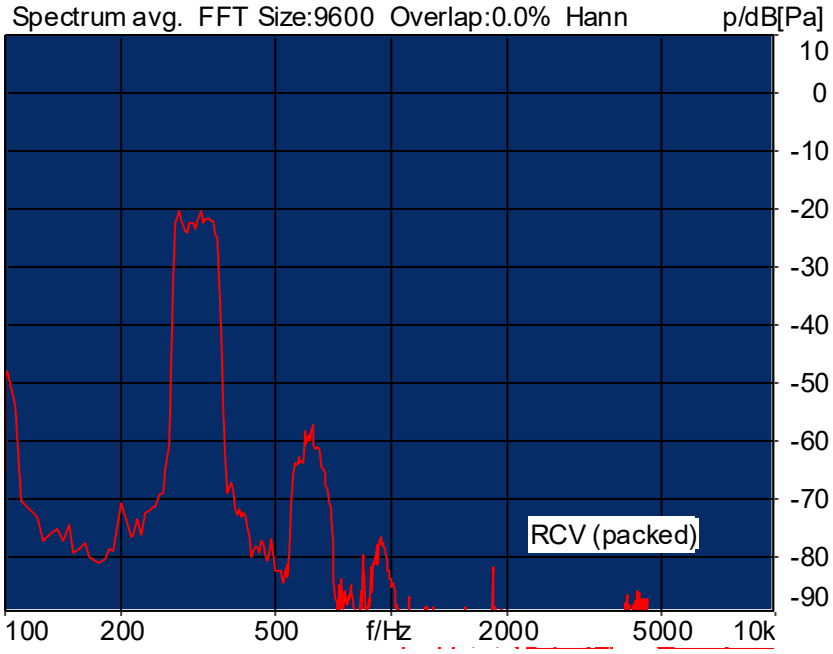
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 38.91 dB (1.13%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

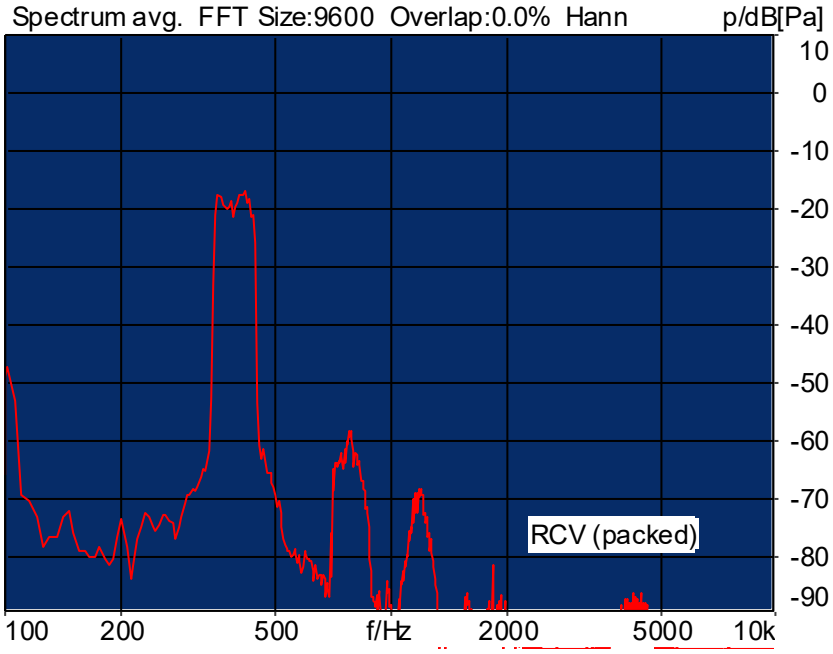
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 41.32 dB (0.86%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

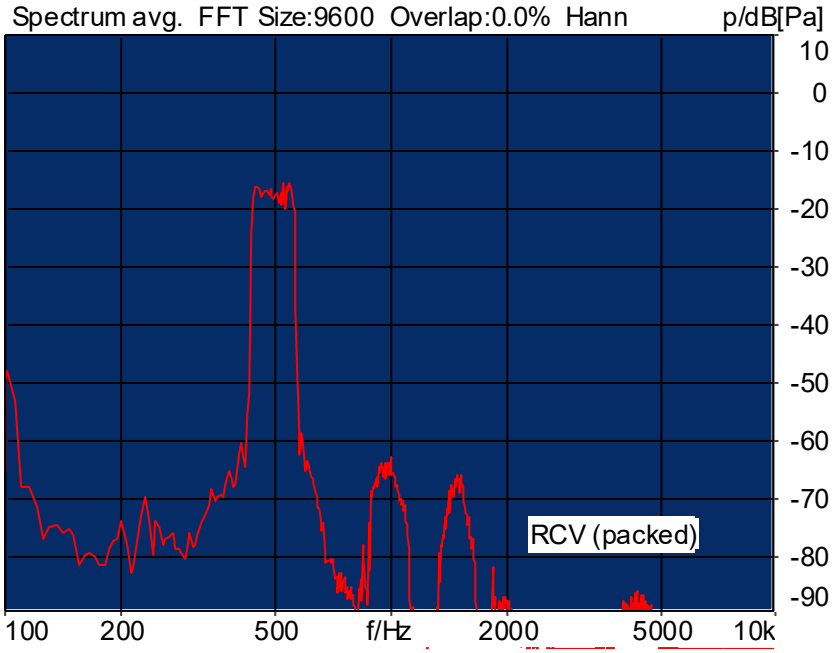
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 43.84 dB (0.64%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

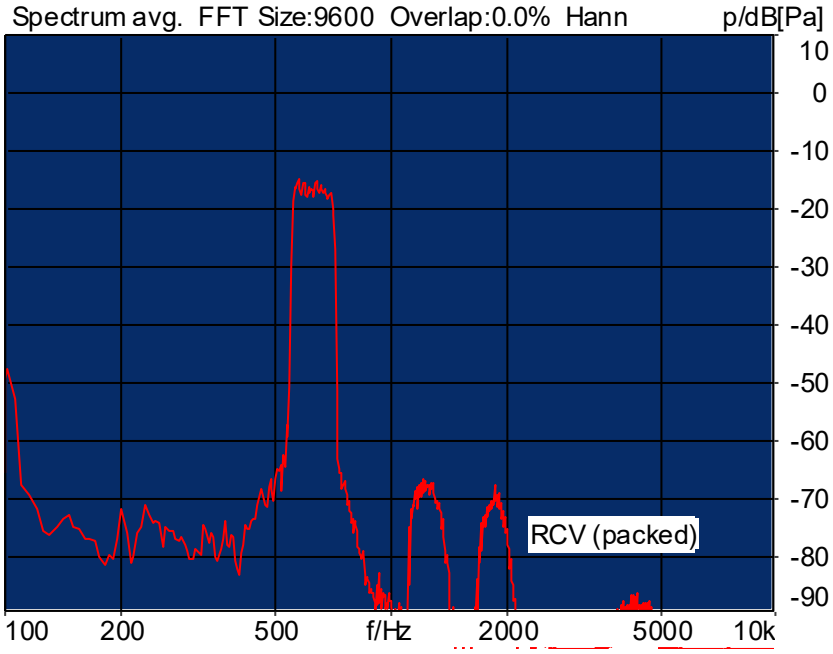
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 46.51 dB (0.47%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

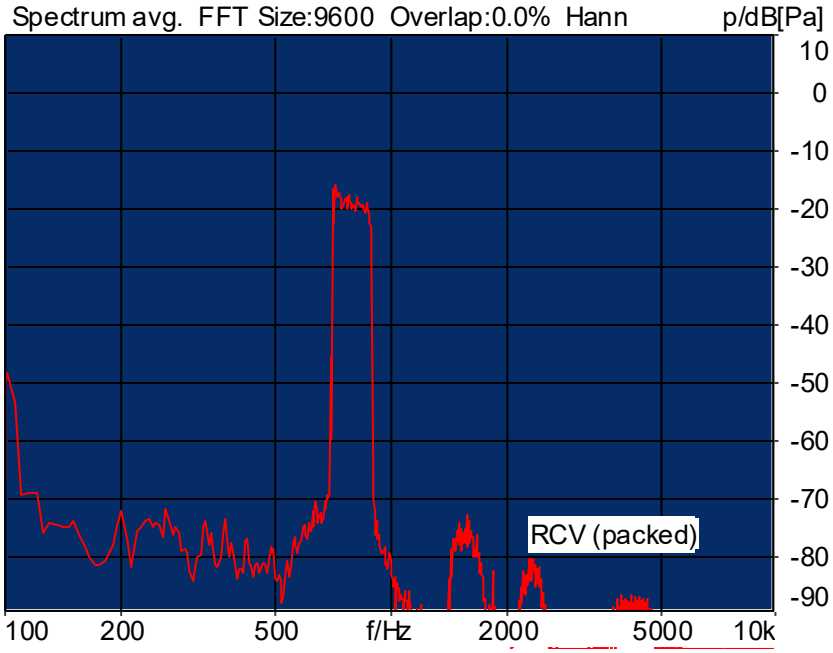
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 50.96 dB (0.28%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

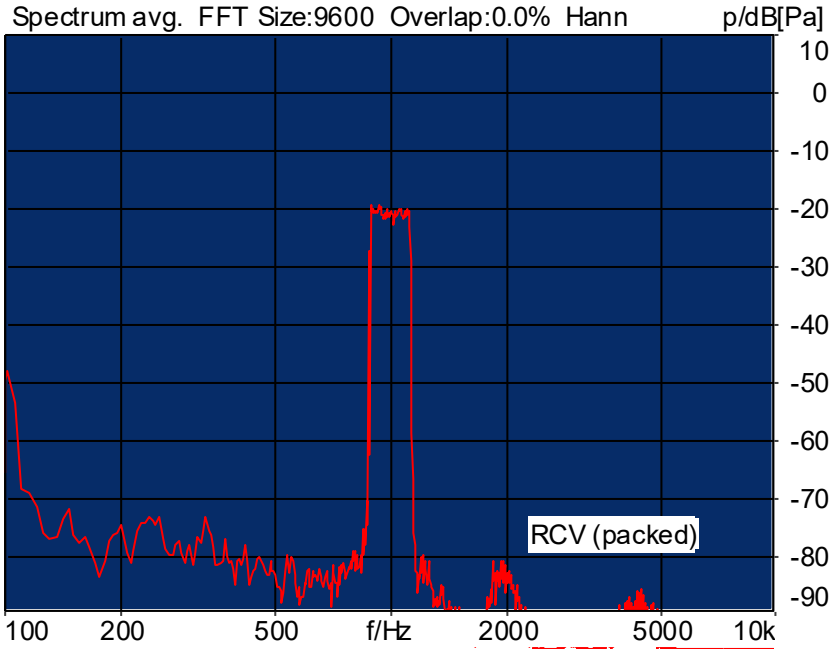
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 53.07 dB (0.22%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

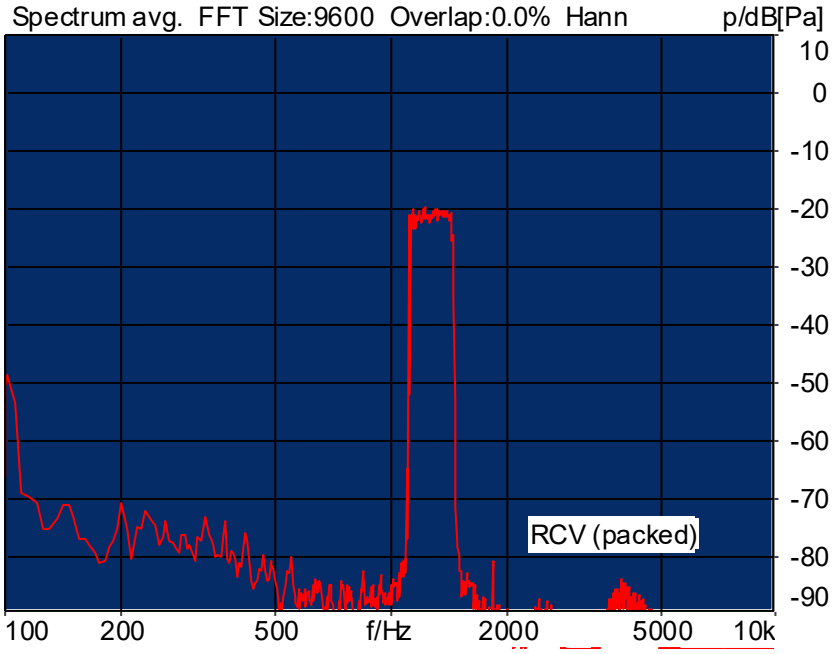
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 31.58 dB (2.63%) Ok

Ok

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Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

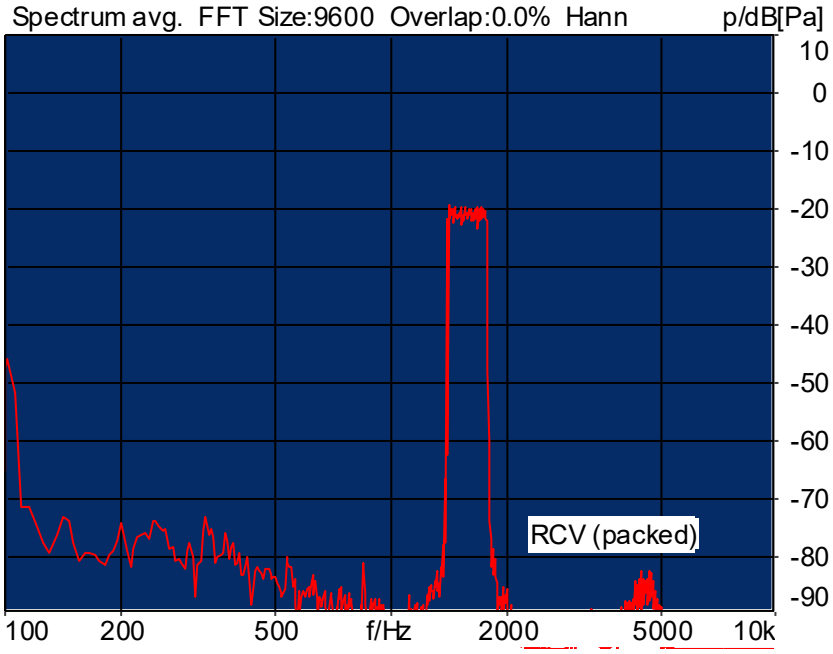
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 54.74 dB (0.18%) Ok

Ok

2026/6/5 11:08 ACQUA 6.2.100

Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

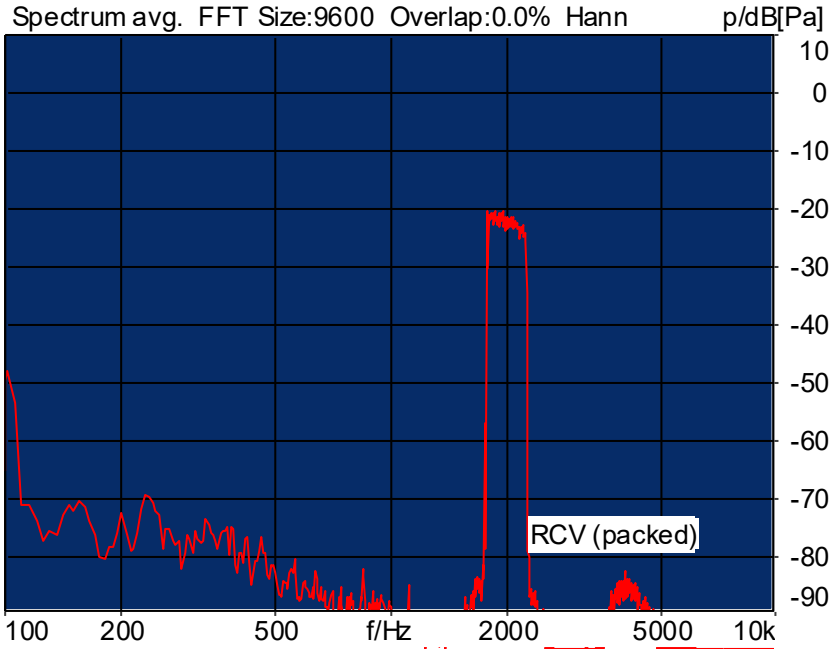
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 54.70 dB (0.18%) Ok

Ok

2026/6/5 11:08 ACQUA 6.2.100

Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

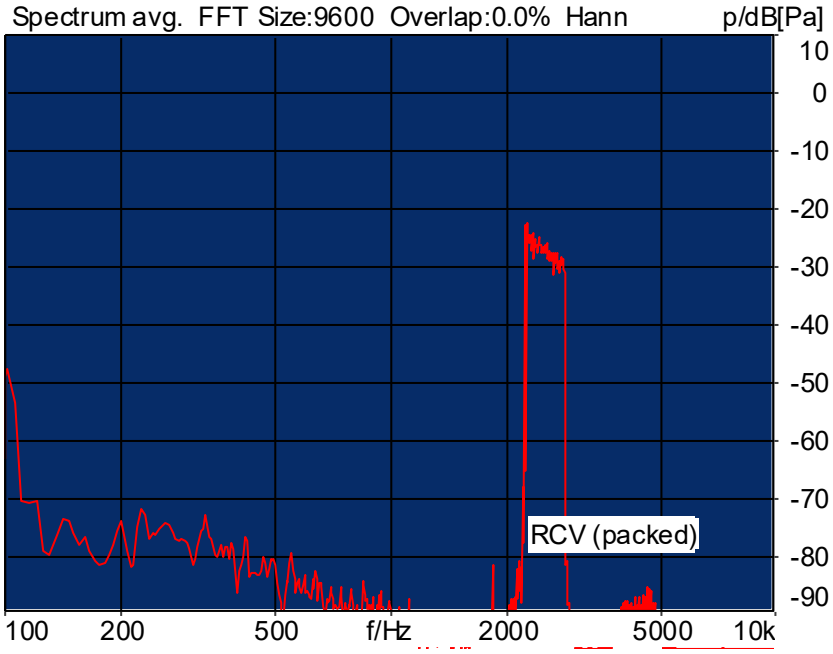
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 51.52 dB (0.27%) Ok

Ok

2026/6/5 11:08 ACQUA 6.2.100

Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

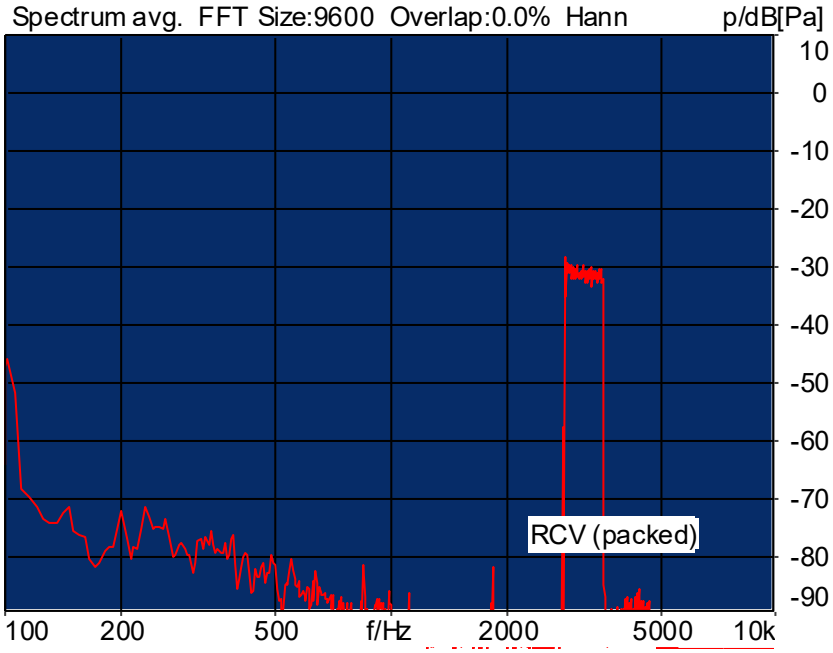
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 48.52 dB (0.37%) Ok

Ok

2026/6/5 11:09 ACQUA 6.2.100

Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

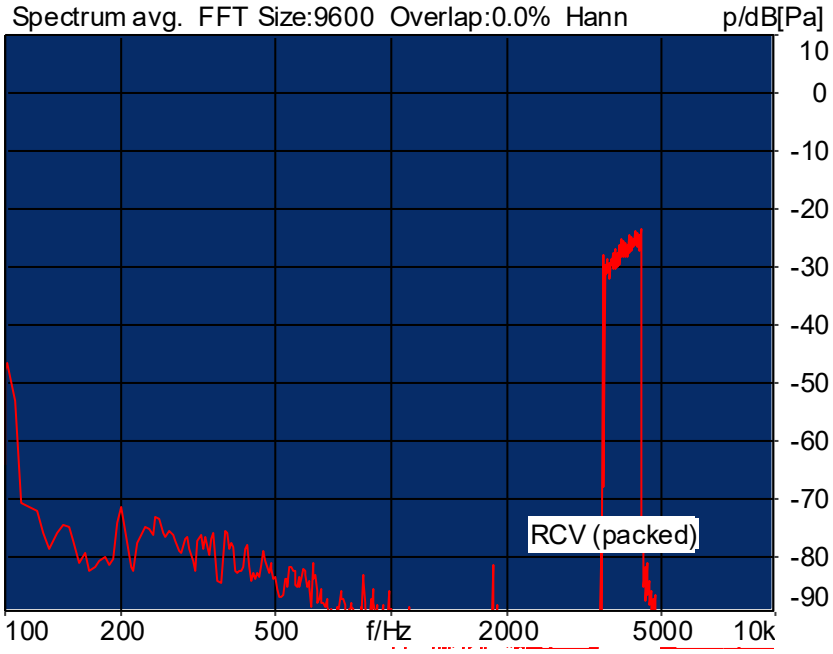
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 54.02 dB (0.20%) Ok

Ok

2026/6/5 11:09 ACQUA 6.2.100

Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

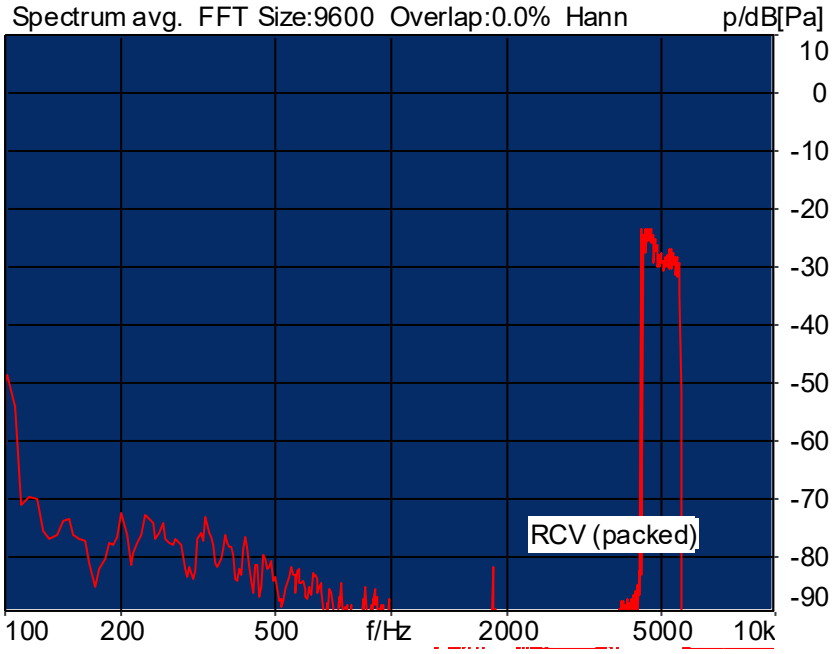
Used Setting	TIA5050

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-128



Distortion (Noise) RCV (packed): 55.33 dB (0.17%) Ok

Ok

2026/6/5 11:10 ACQUA 6.2.100

Limits

lower
20.00 dB

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	87.2000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

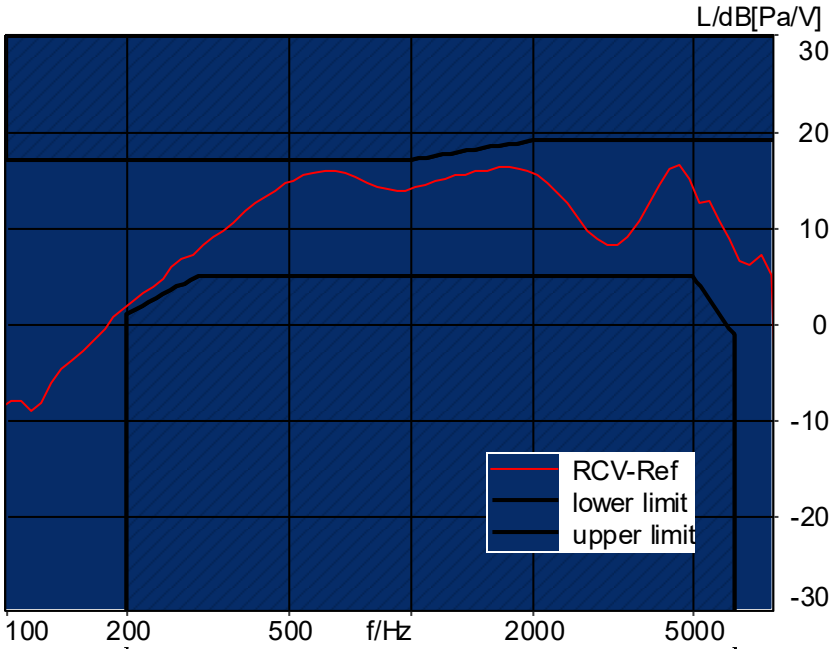
Used Setting	TIA5050

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
EVS-WB-128



Absolute minimal distance
1.07 dB at 205.7 Hz Ok

Ok

2026/6/5 11:10 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	87.2000 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-CC26050303-LTEB66

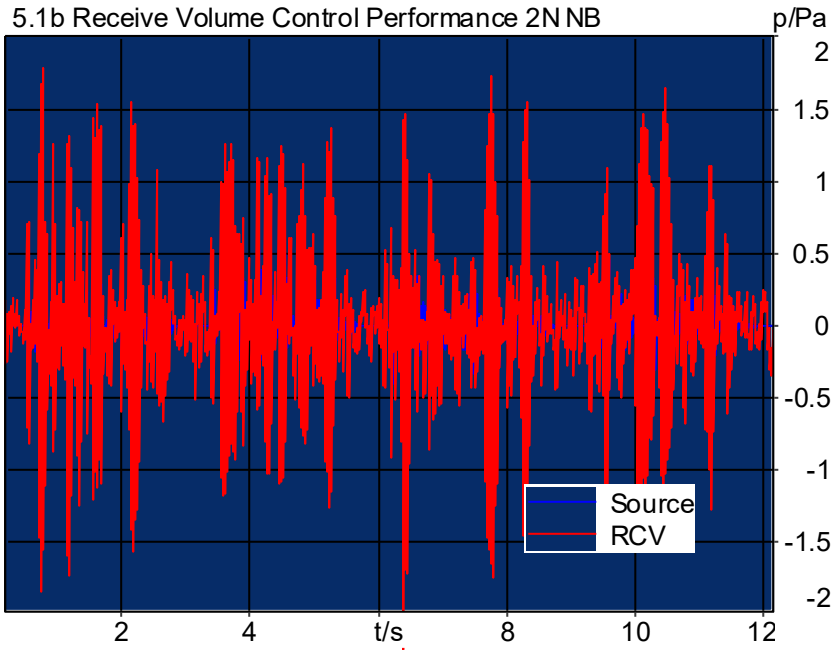
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.50	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.20	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.04	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.53	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.01	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.45	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.17	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.62	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.50	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.24	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.71	Ti-CC26050303-LTEB66
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.29	Ti-CC26050303-LTEB66

5.1b Receive Volume Control Performance 2N NB (Ti-CC26050303-LTEB66)

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

EVS-NB-5.9



Channel	Speech level	Activity	
RCV	80.50 dB[SPL]	80.43%	Ok

Ok

2026/5/29 11:35 ACQUA 6.2.100

Limits

lower
76.00 dB[SPL]

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

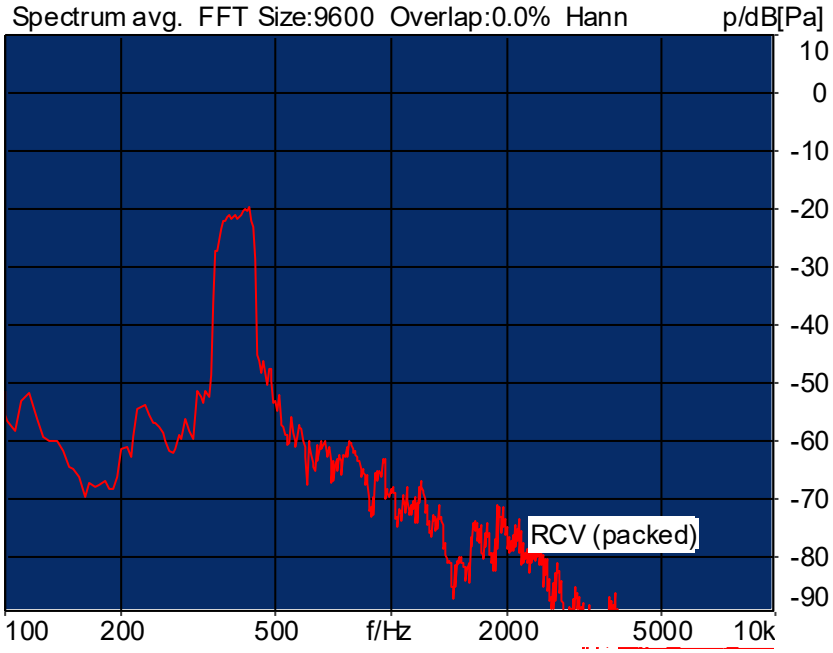
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 32.20 dB (2.46%) Ok

Ok

2026/6/6 4:18 ACQUA 6.2.100

Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

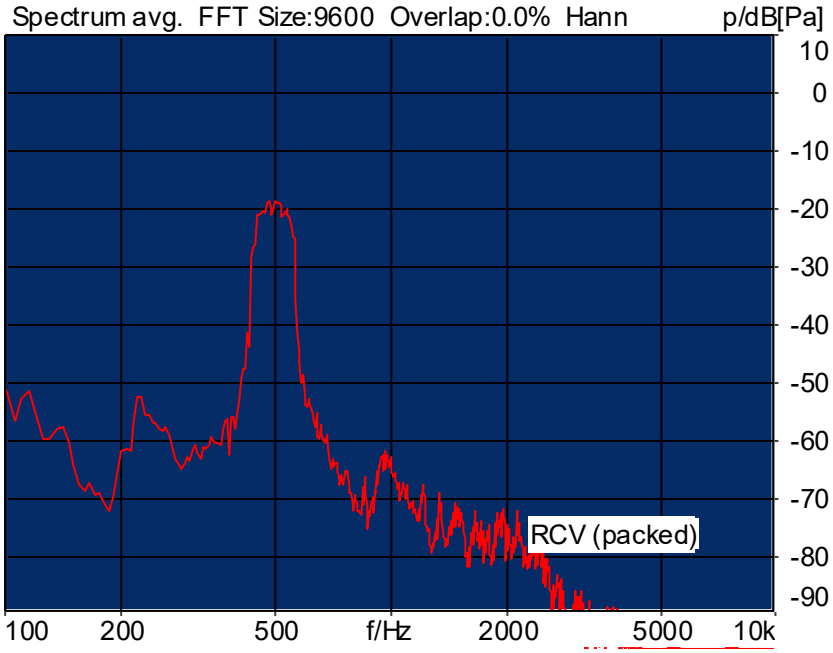
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.04 dB (1.77%) Ok

Ok

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Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_500Hz

Hardware Config Settings

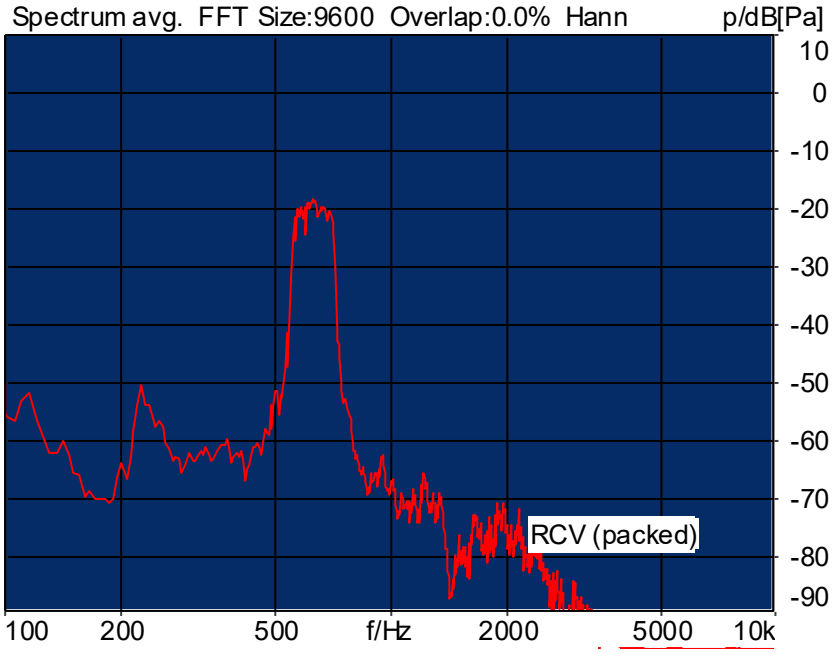
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.53 dB (1.67%) Ok

Ok

2026/6/6 4:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_630Hz

Hardware Config Settings

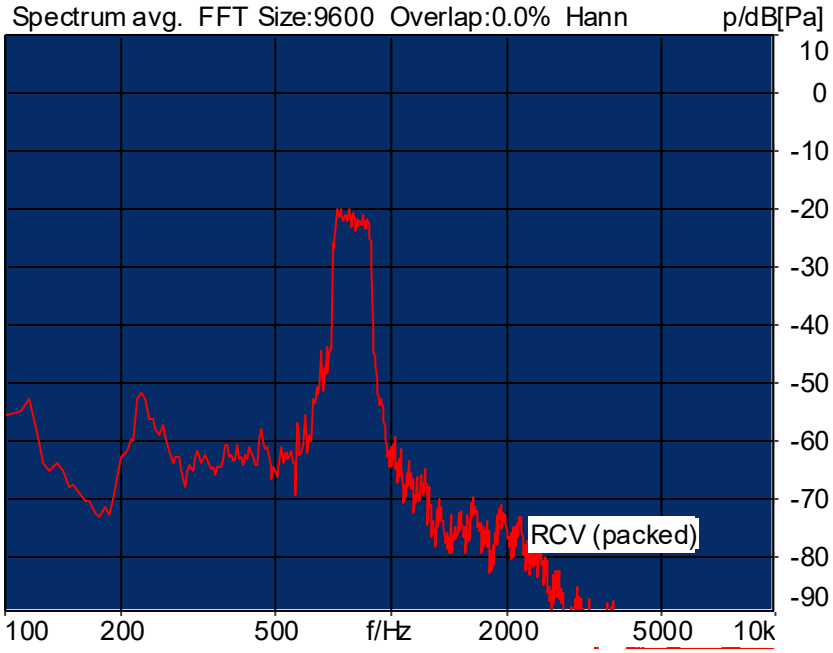
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 32.01 dB (2.51%) Ok

Ok

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Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_800Hz

Hardware Config Settings

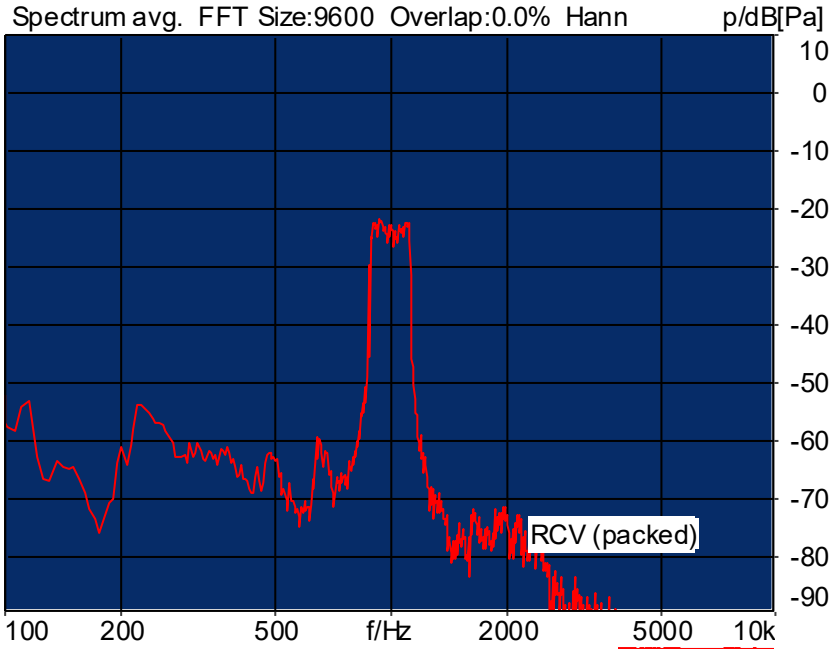
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 35.45 dB (1.69%) Ok

Ok

2026/6/6 4:19 ACQUA 6.2.100

Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1000Hz

Hardware Config Settings

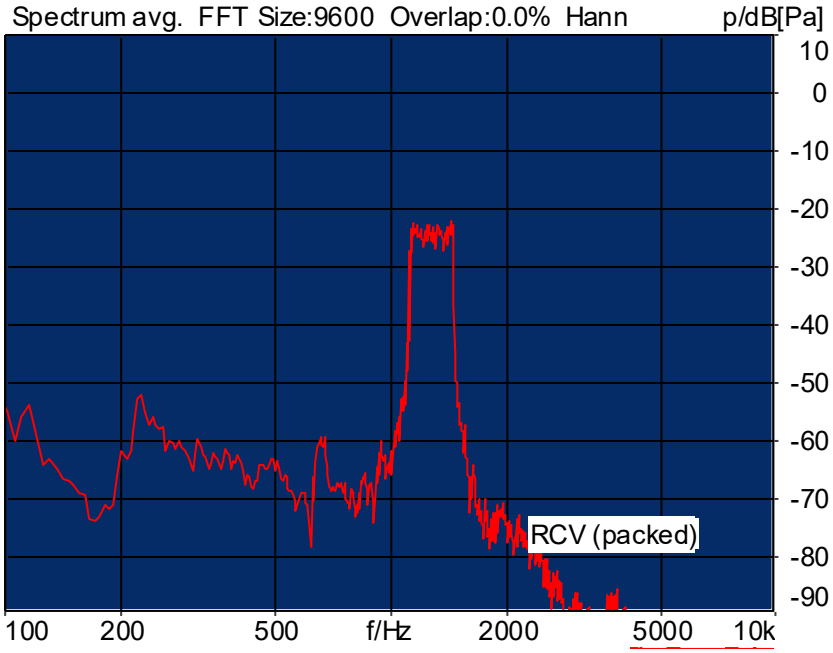
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 27.17 dB (4.38%) Ok

Ok

2026/6/6 4:20 ACQUA 6.2.100

Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1250Hz

Hardware Config Settings

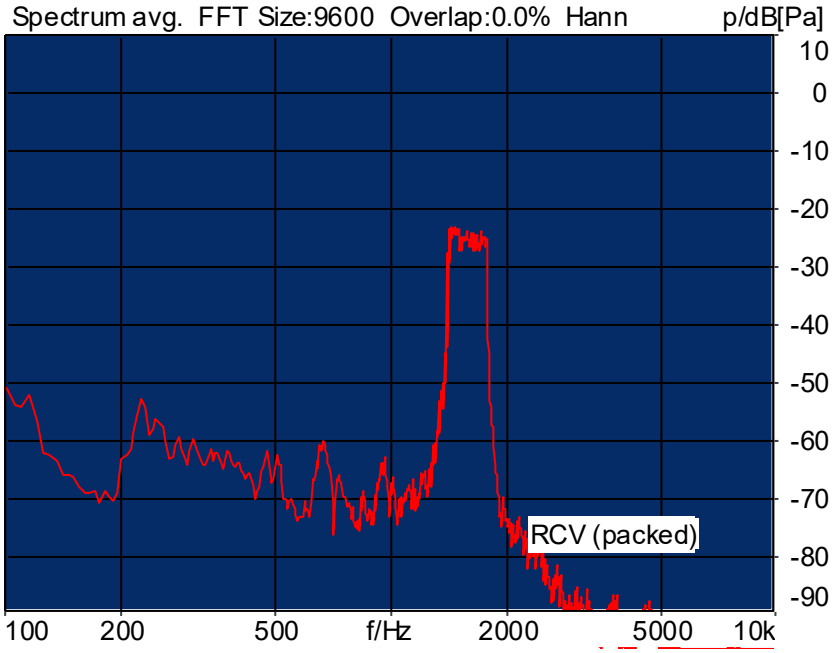
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



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

Ok

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Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_1600Hz

Hardware Config Settings

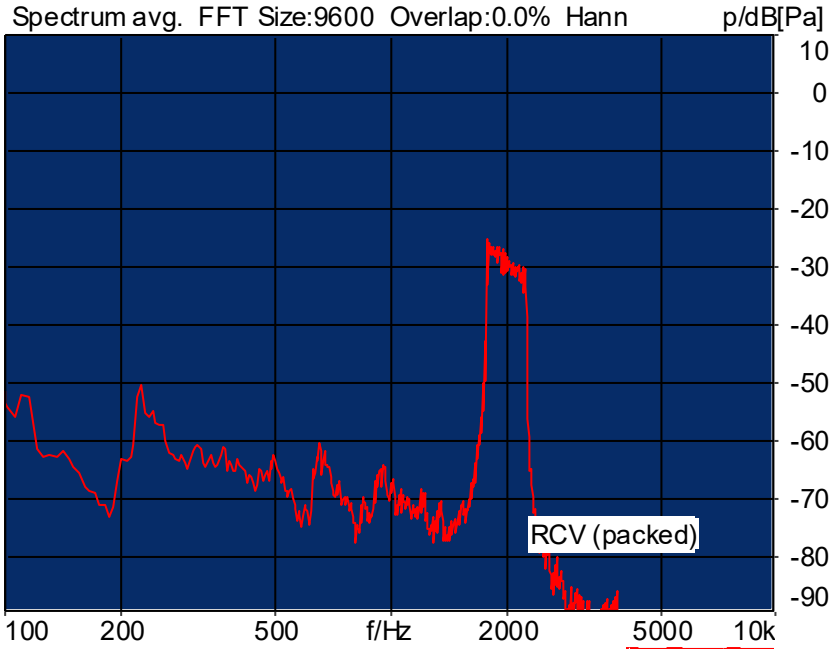
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 31.50 dB (2.66%) Ok

Ok

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Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2000Hz

Hardware Config Settings

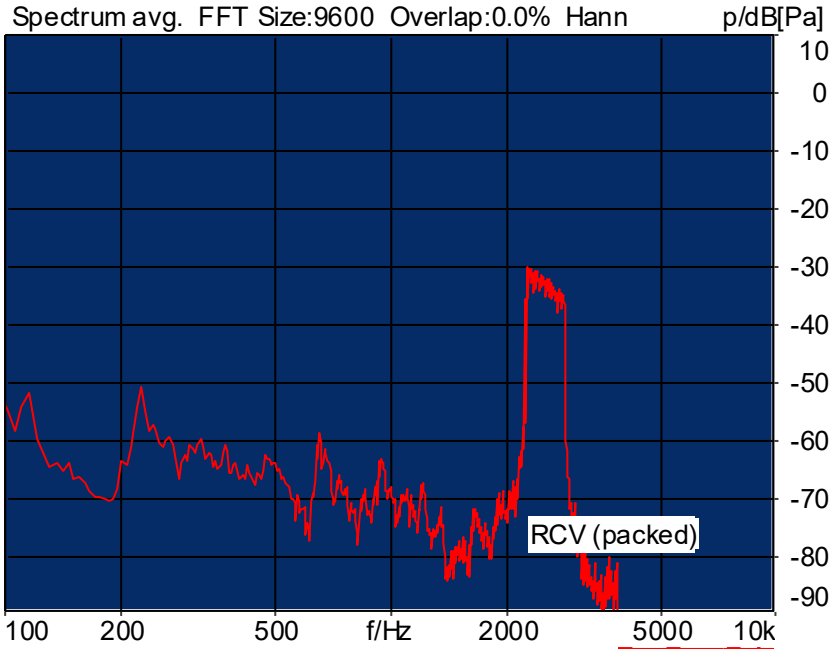
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 30.24 dB (3.08%) Ok

Ok

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Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_2500Hz

Hardware Config Settings

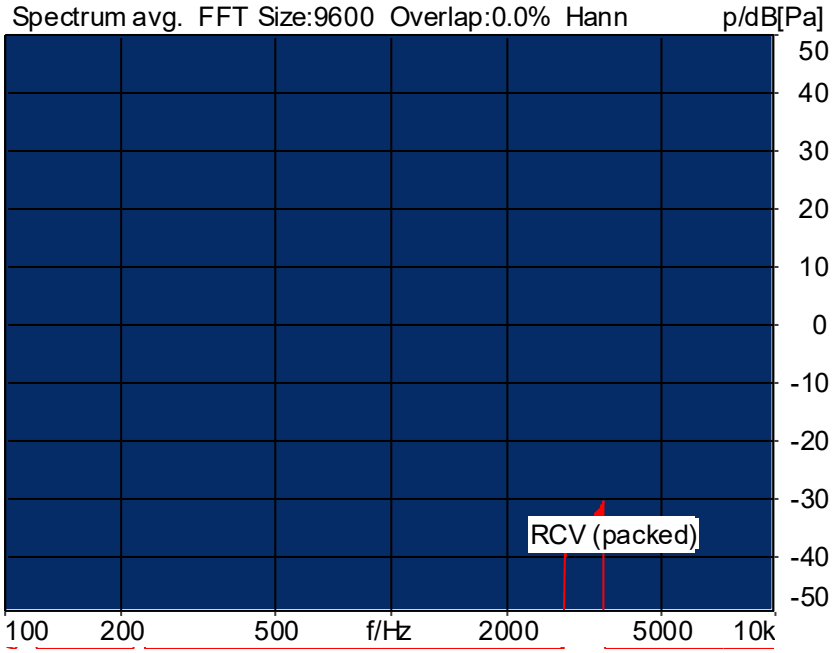
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 30.71 dB (2.91%) Ok

Ok

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Limits

lower
20.00 dB

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	149.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_3150Hz

Hardware Config Settings

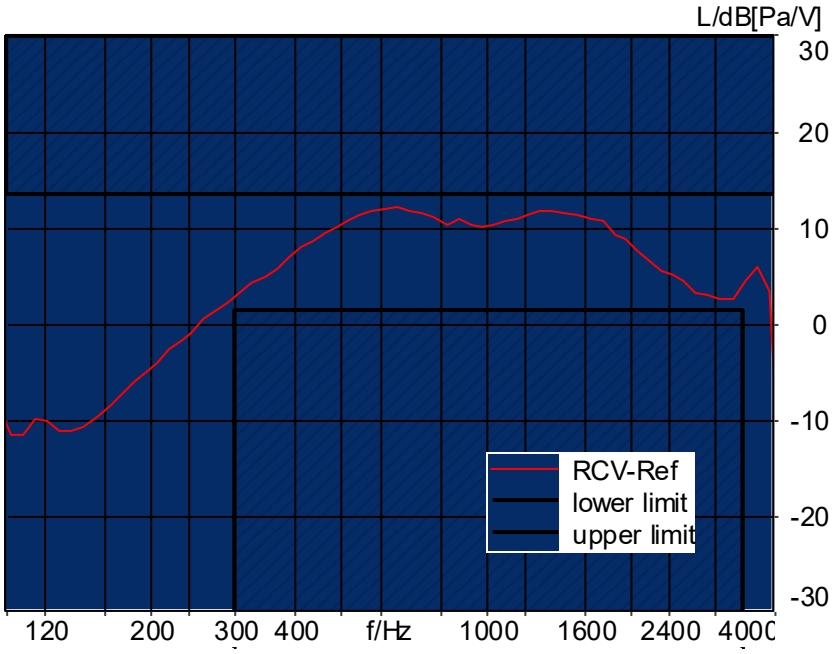
Used Setting	TIA5050

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 (Ti-CC26050303-LTEB66)

TIA-5050 (2018-01) \ Measurements \ Narrowband
EVS-NB-5.9



Absolute minimal distance
1.29 dB at 649.1 Hz Ok

Ok

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Limits

lower
Fit into tolerance

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	149.3000 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(16#)

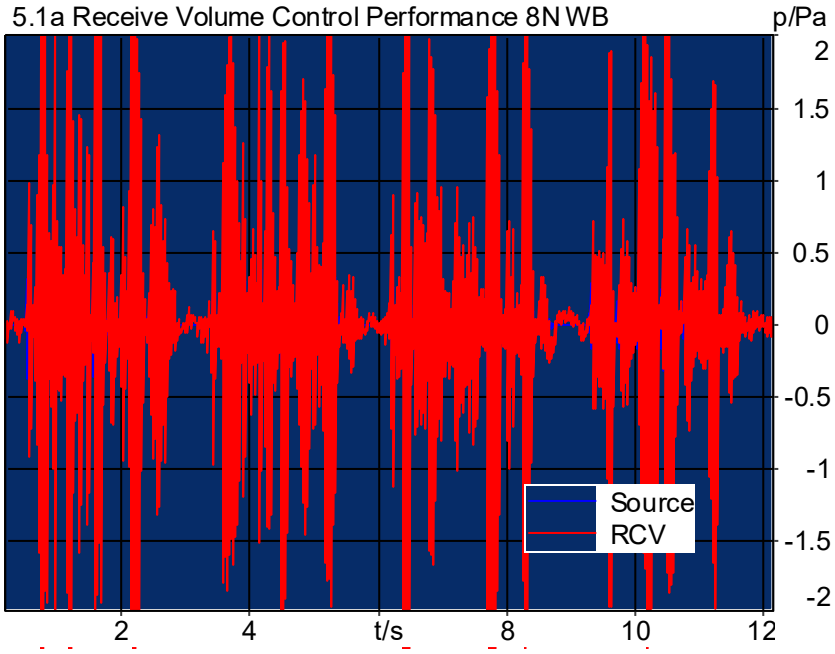
Measurement Object	Ti-CC26050303-LTEB66

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	85.13	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.17	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.81	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.28	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.64	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.36	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.98	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.50	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.83	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.15	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.53	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.76	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	48.88	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	51.56	Ti-CC26050303-LTEB66
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.28	Ti-CC26050303-LTEB66
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.92	Ti-CC26050303-LTEB66

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	85.13 dB[SPL]	82.07%	Ok

Ok

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Limits

lower
76.00 dB[SPL]

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

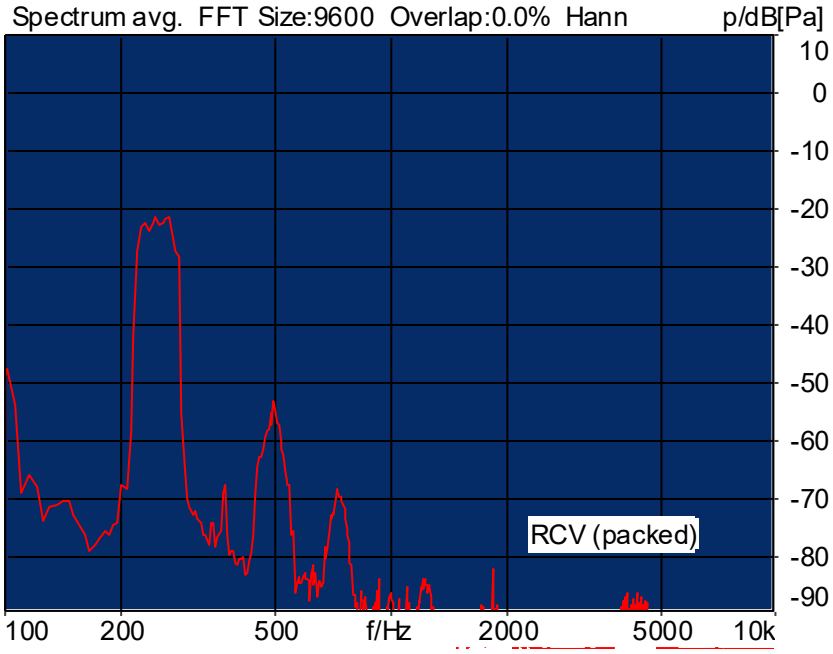
Used Setting	TIA5050

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 8N
EVS-WB-24.4



Distortion (Noise) RCV (packed): 36.17 dB (1.55%) Ok

Ok

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Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

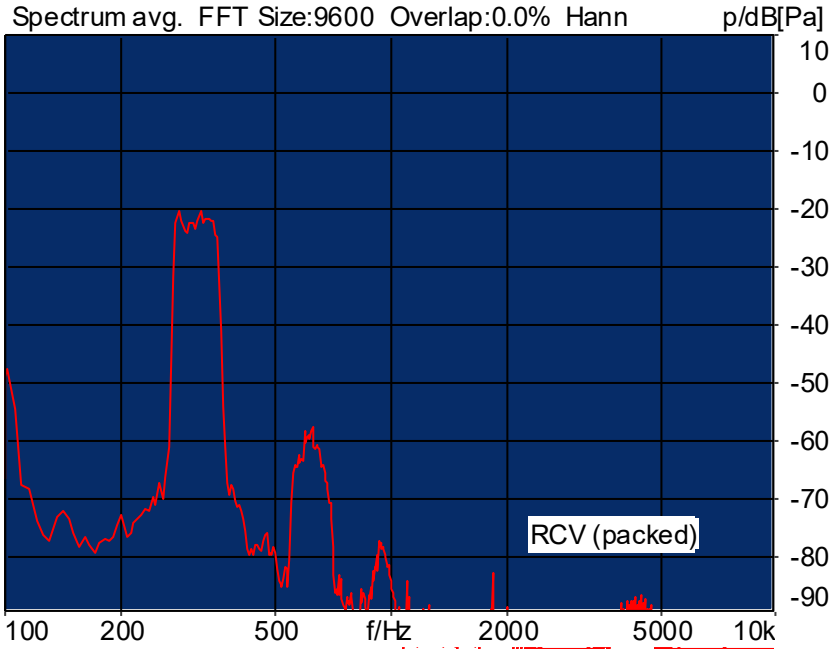
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 38.81 dB (1.15%) Ok

Ok

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Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

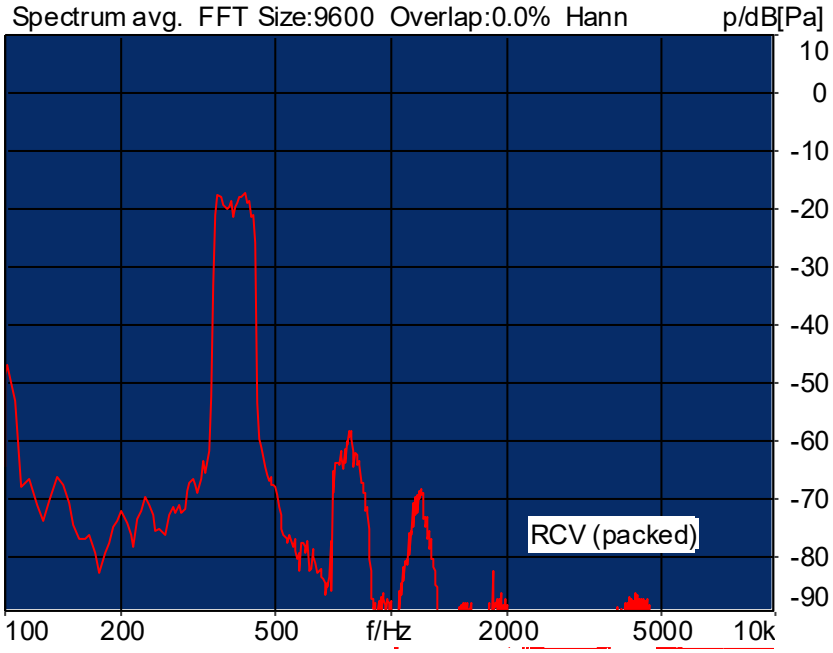
Used Setting	TIA5050

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-24.4



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

Ok

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Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

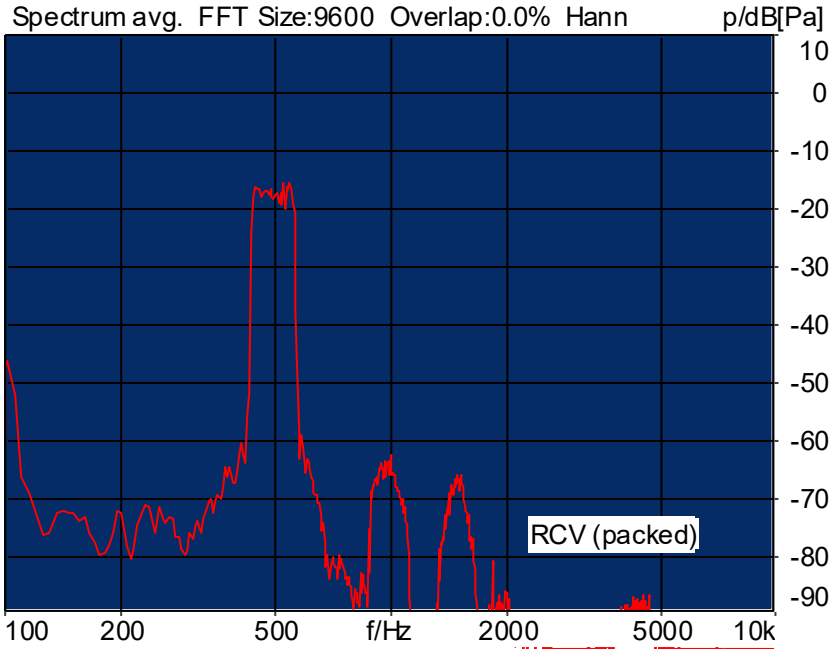
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 43.64 dB (0.66%) Ok

Ok

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Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

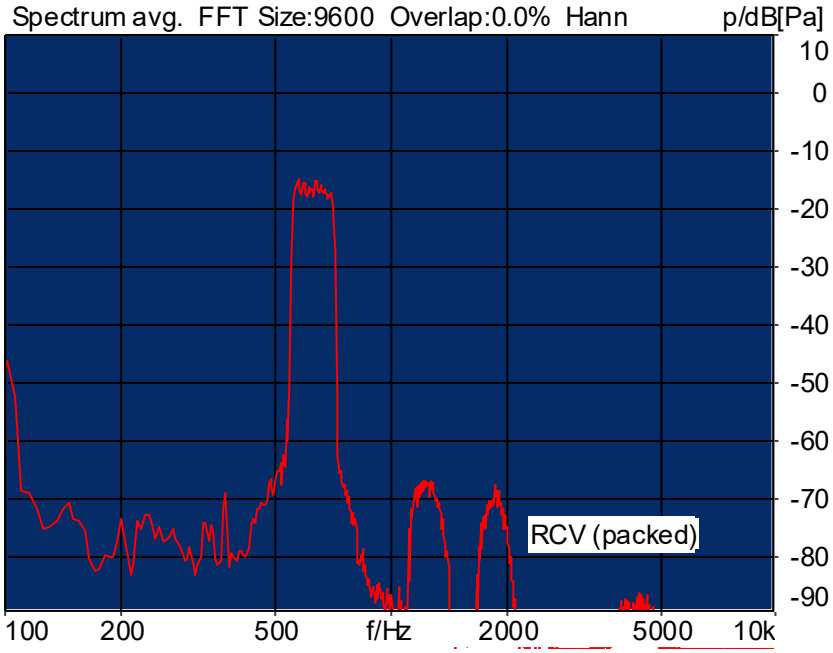
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 46.36 dB (0.48%) Ok

Ok

2026/6/5 10:56 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

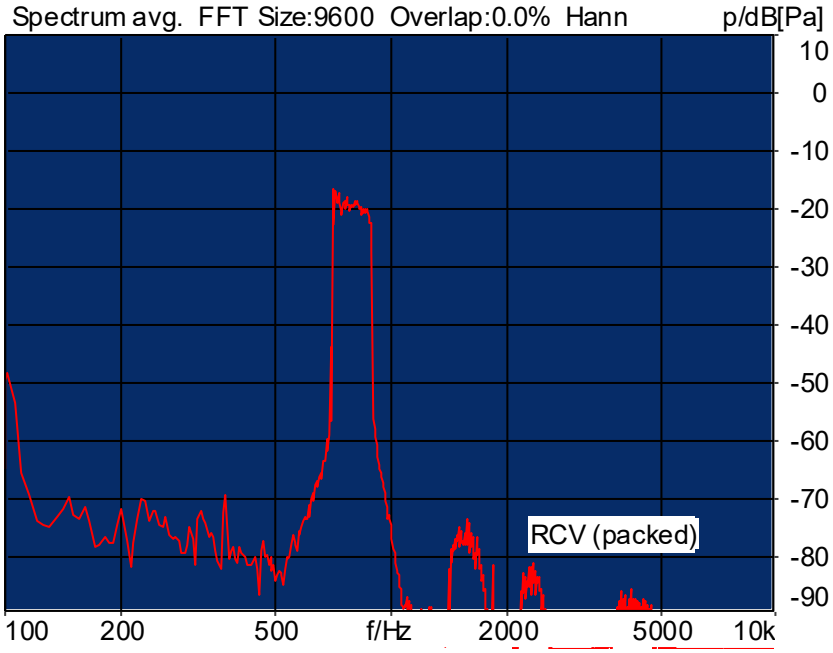
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 47.98 dB (0.40%) Ok

Ok

2026/6/5 10:57 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

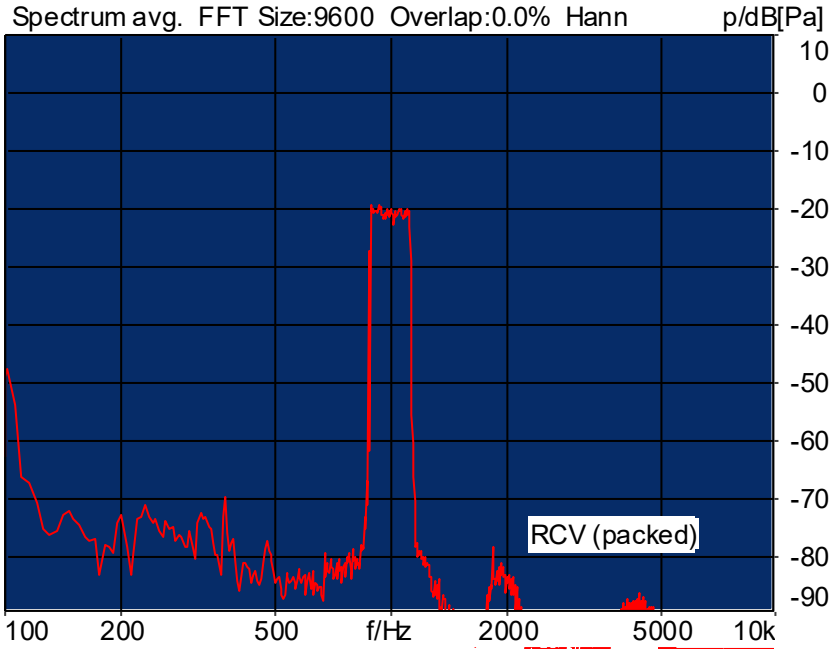
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 52.50 dB (0.24%) Ok

Ok

2026/6/5 10:57 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

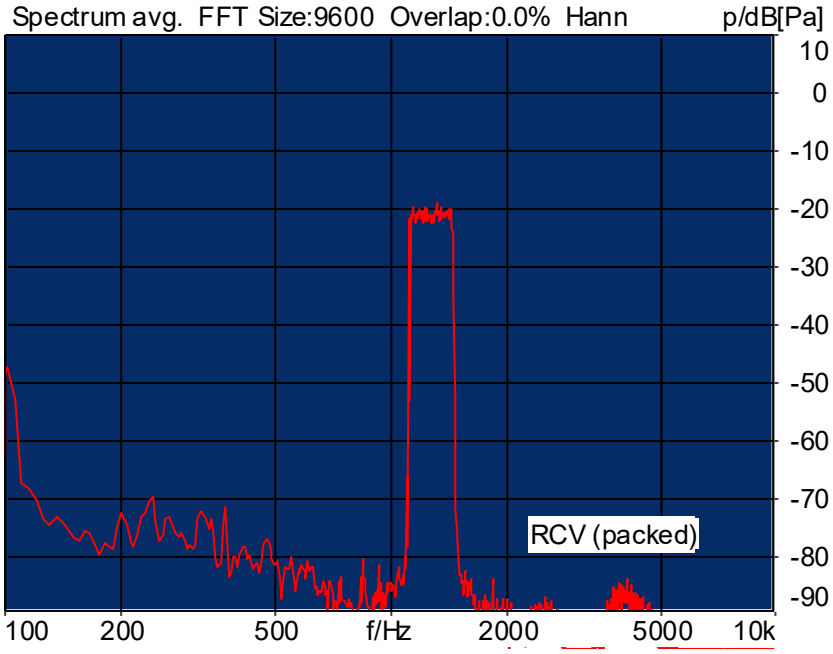
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.83 dB (2.56%) Ok

Ok

2026/6/5 10:57 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

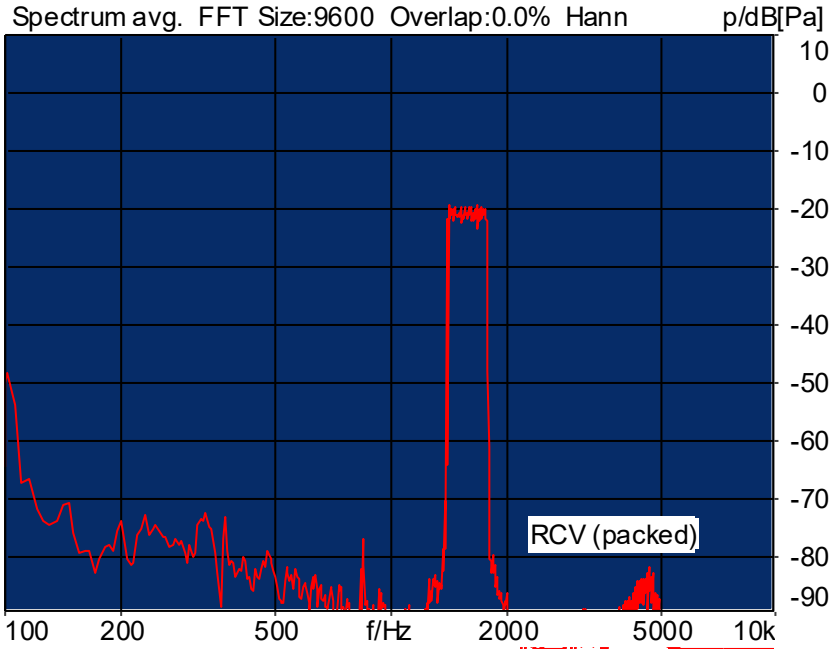
Used Setting	TIA5050

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 EVS-WB-24.4



Distortion (Noise) RCV (packed): 55.15 dB (0.17%) Ok

Ok

2026/6/5 10:58 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

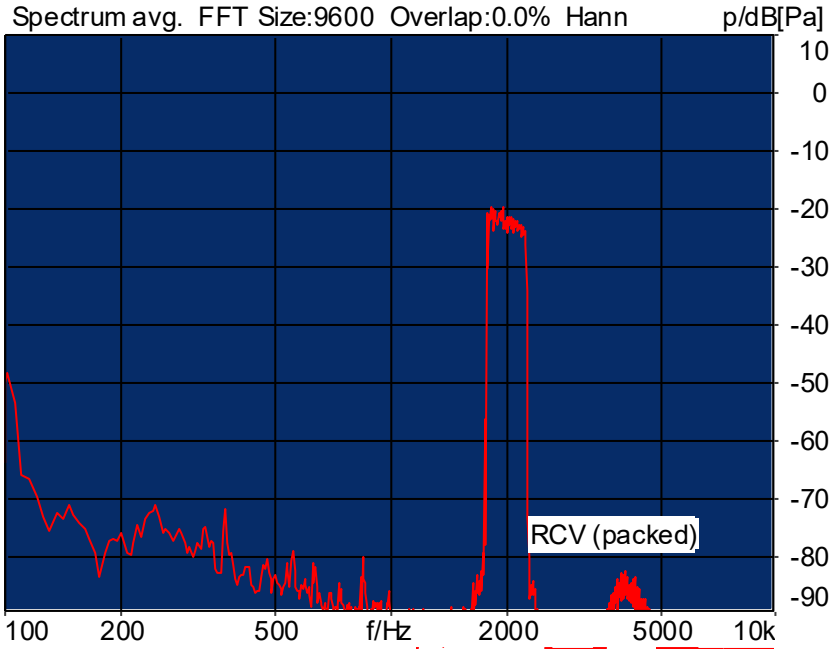
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 54.53 dB (0.19%) Ok

Ok

2026/6/5 10:58 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

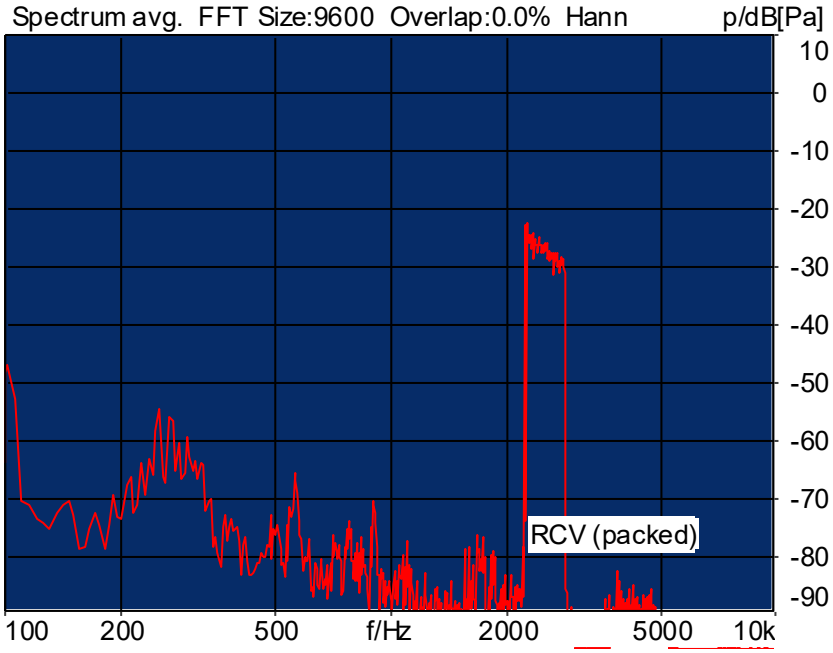
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 45.76 dB (0.52%) Ok

Ok

2026/6/5 10:58 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

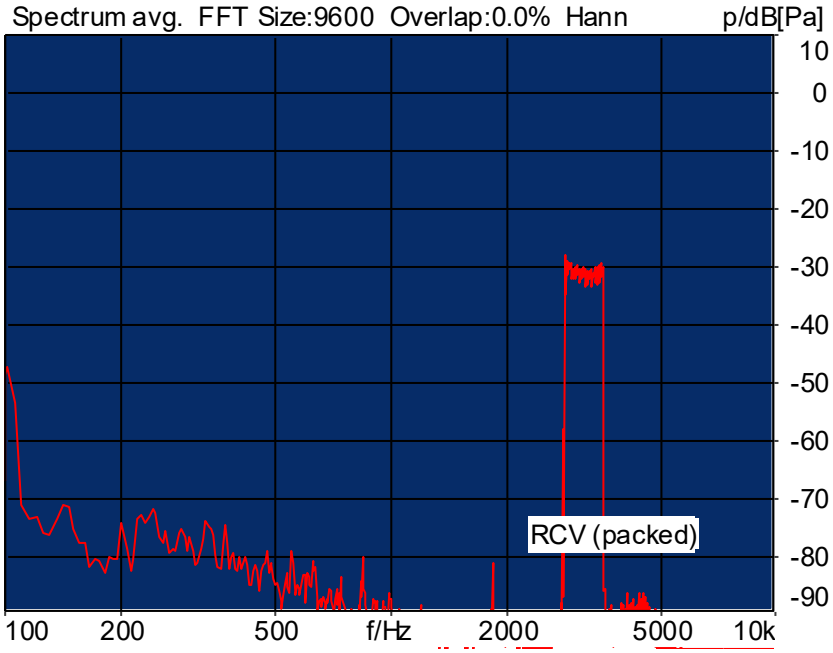
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 48.88 dB (0.36%) Ok

Ok

2026/6/5 10:59 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

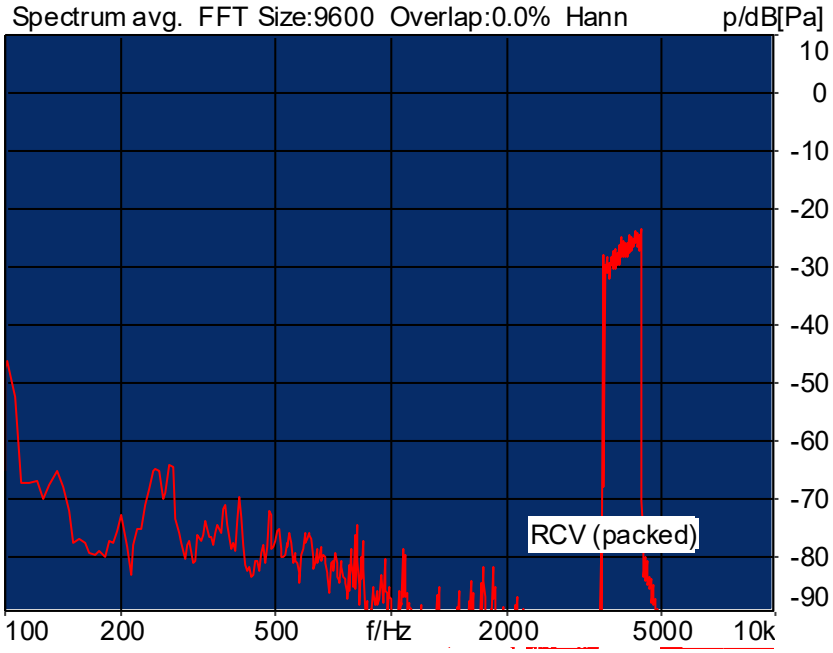
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 51.56 dB (0.26%) Ok

Ok

2026/6/5 10:59 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

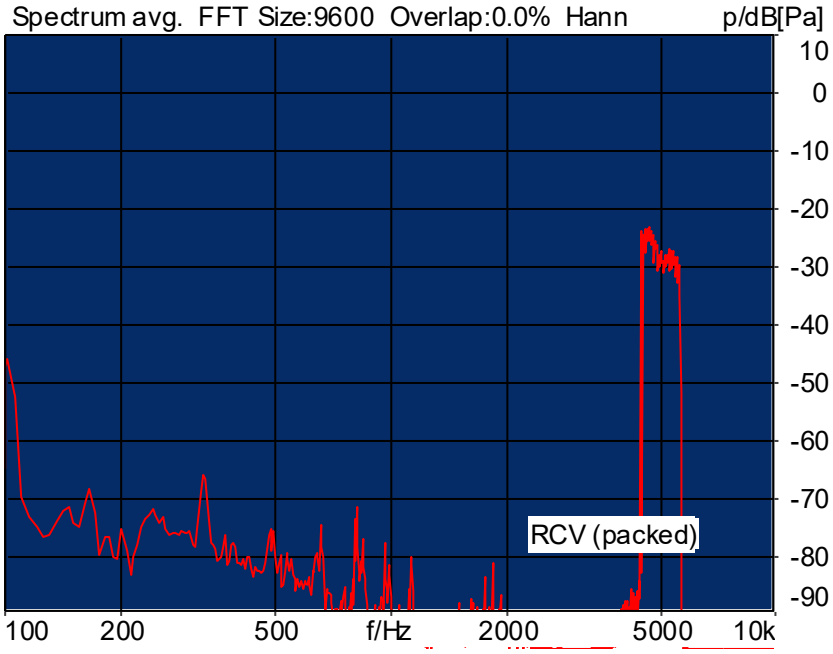
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 53.28 dB (0.22%) Ok

Ok

2026/6/5 11:00 ACQUA 6.2.100

Limits

lower
20.00 dB

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	93.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

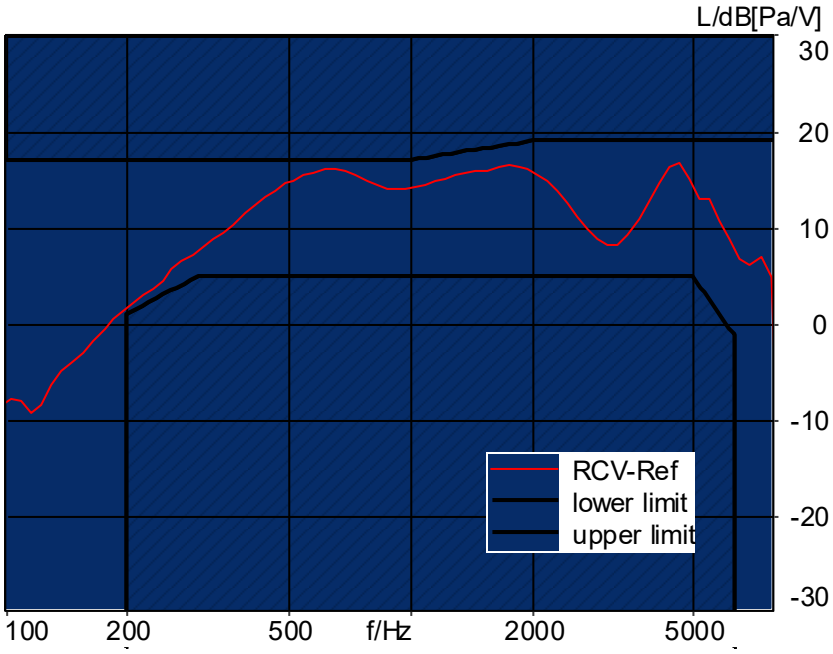
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.92 dB at 611.7 Hz Ok

Ok

2026/6/5 11:02 ACQUA 6.2.100

Limits

lower
Fit into tolerance

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	93.1000 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(17#)

Measurement Object	Ti-CC26050303-N2

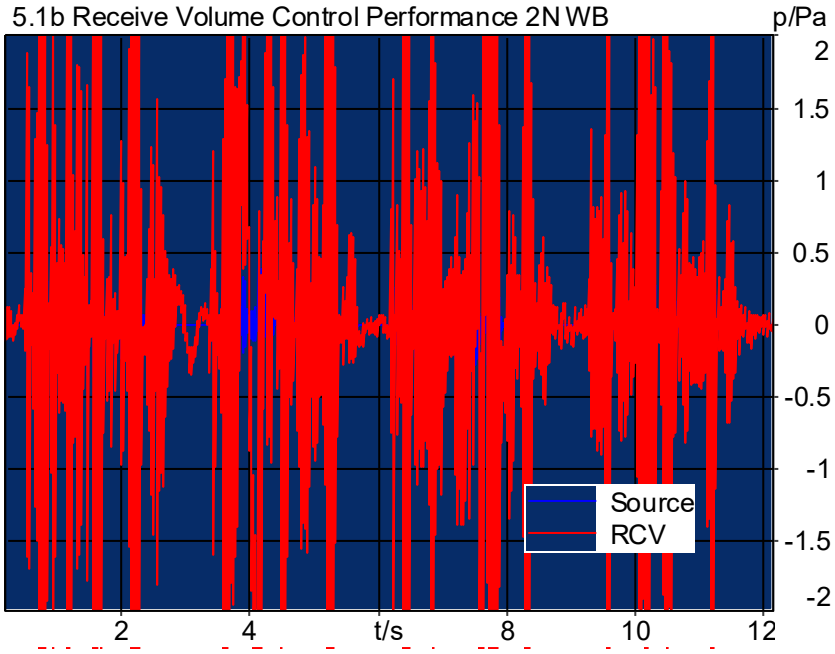
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.48	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.11	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.30	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.88	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.86	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.31	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.16	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.96	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.65	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.58	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.43	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.09	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.24	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.23	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.72	Ti-CC26050303-N2

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.45	Ti-CC26050303-N2

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	86.48 dB[SPL]	84.10%	Ok

Ok

2026/6/22 10:01 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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

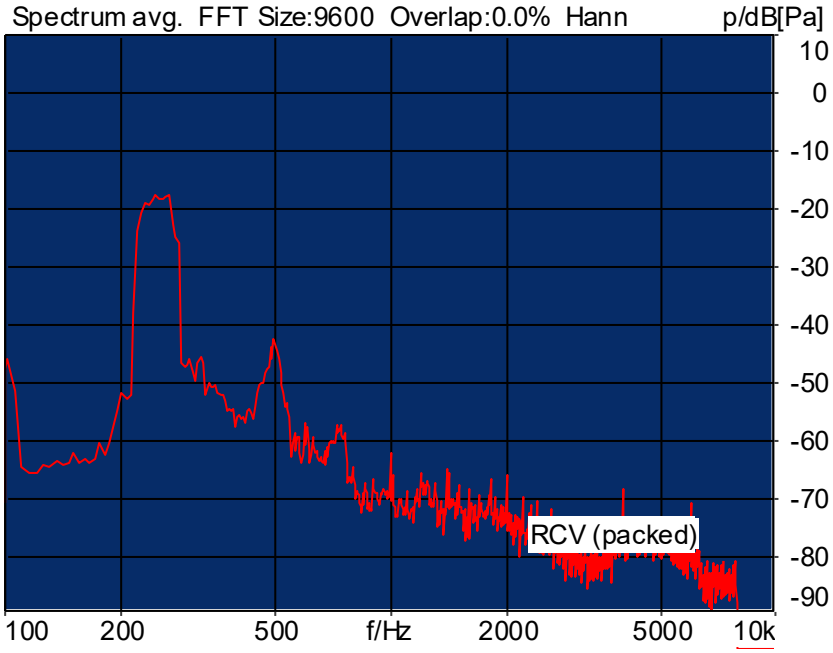
Used Setting	TIA5050

MFE VI Settings

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

5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 27.11 dB (4.41%) 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

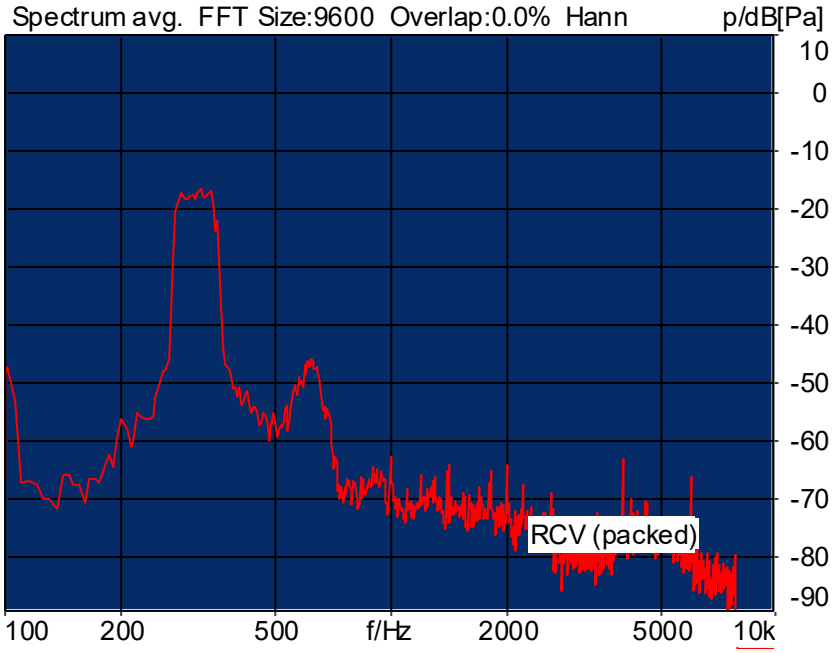
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 29.30 dB (3.43%) 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

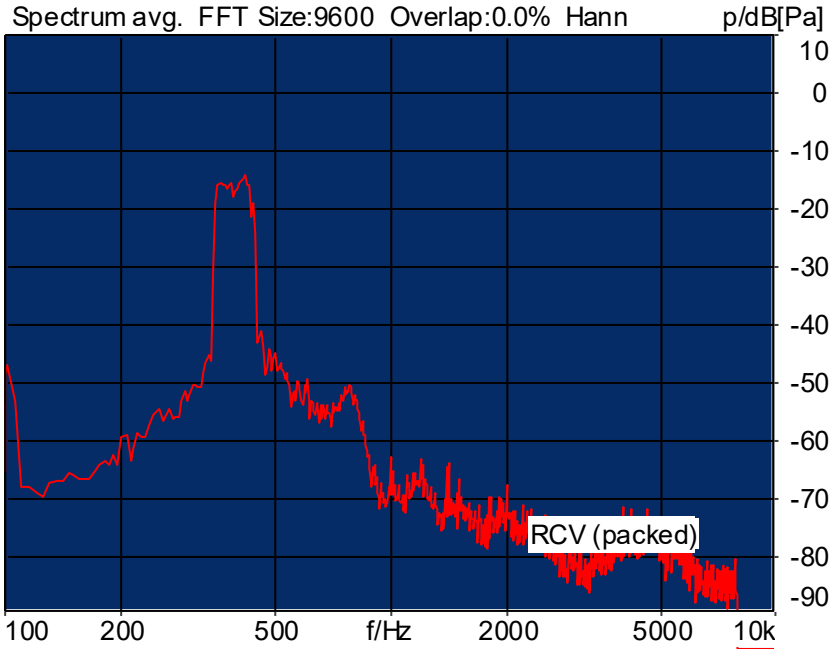
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.88 dB (2.86%) 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

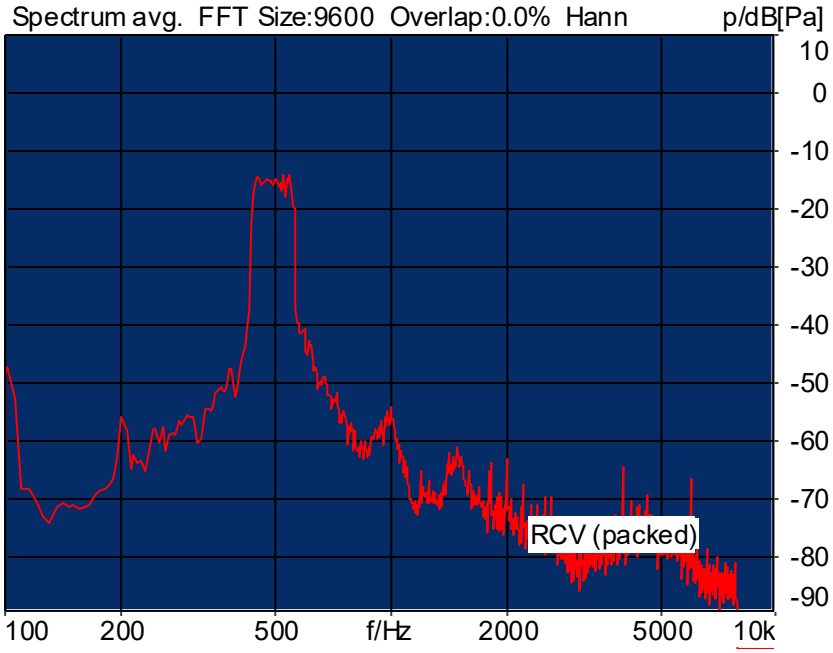
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.86 dB (2.55%) 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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

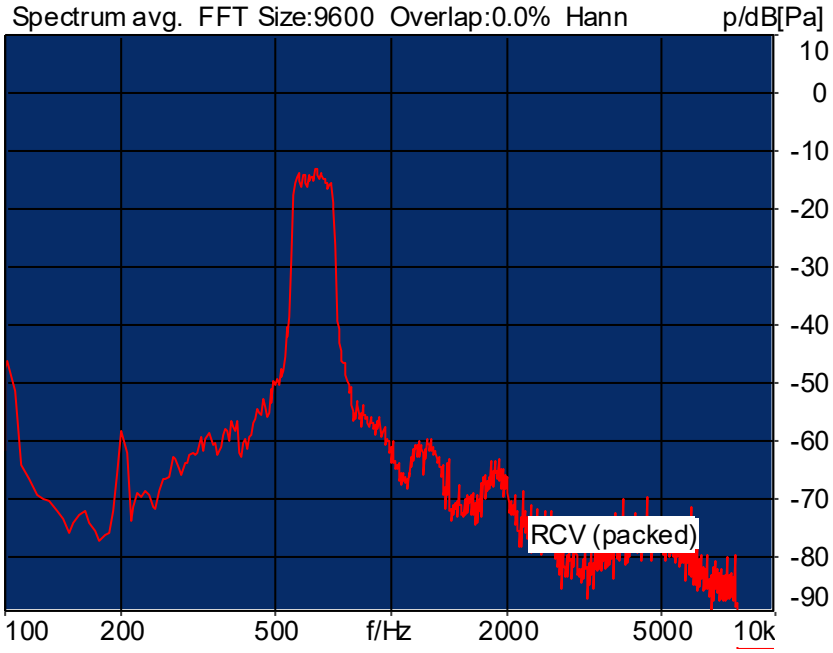
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 35.31 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

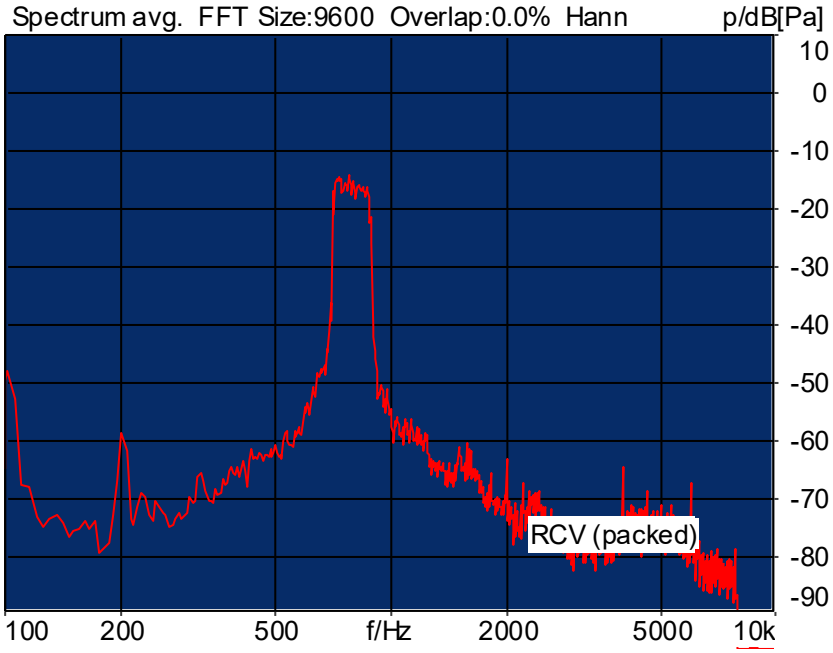
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 34.16 dB (1.96%) 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

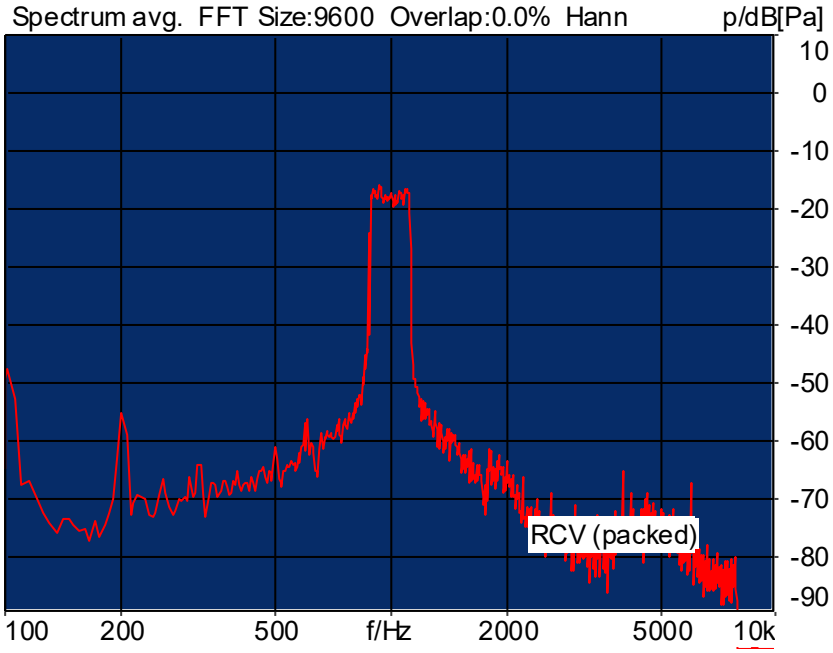
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.96 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

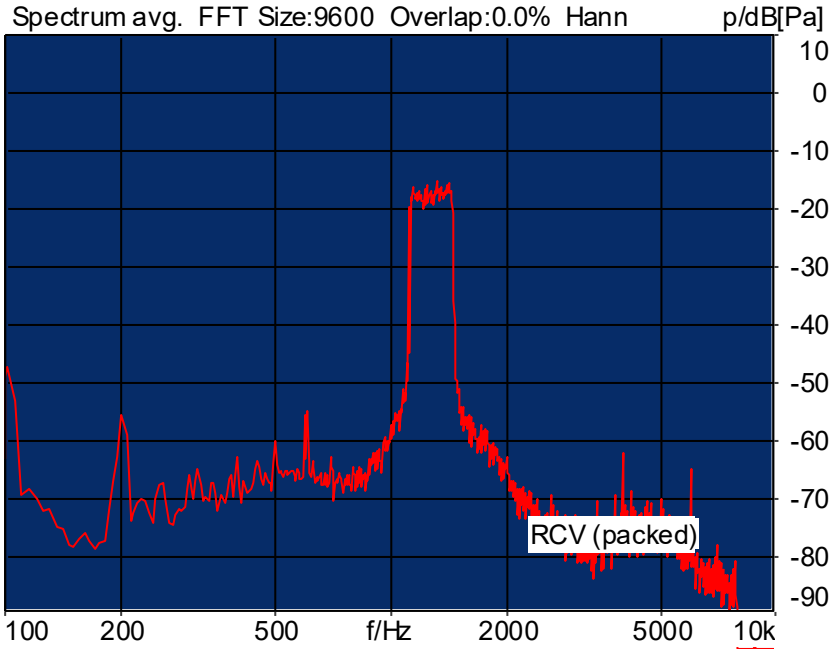
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.65 dB (2.61%) 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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

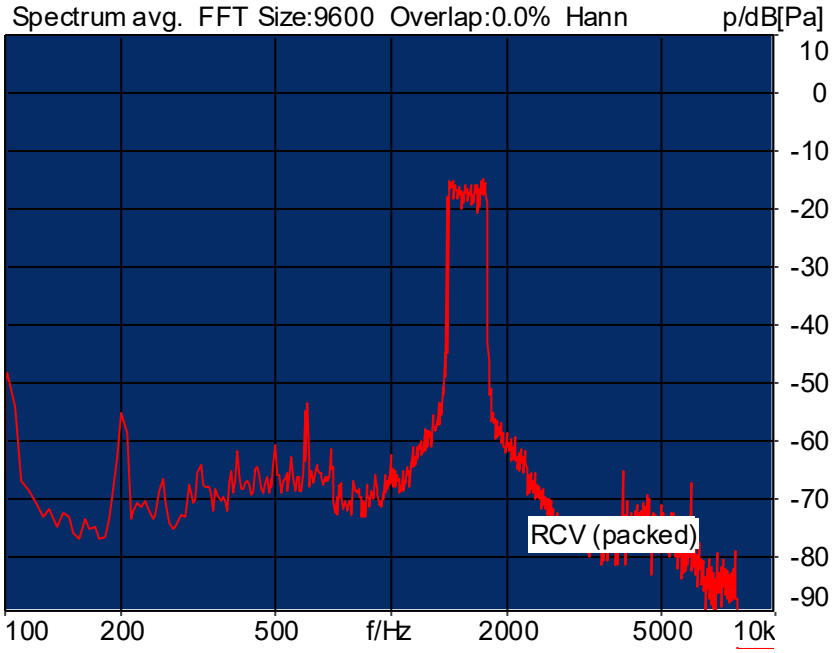
Used Setting	TIA5050

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-24.4



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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

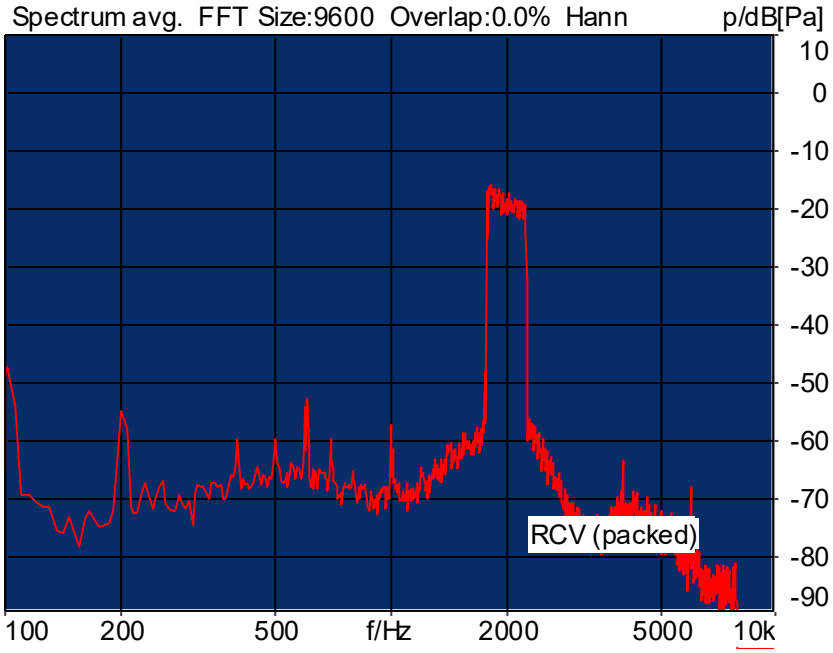
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 37.43 dB (1.34%) 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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

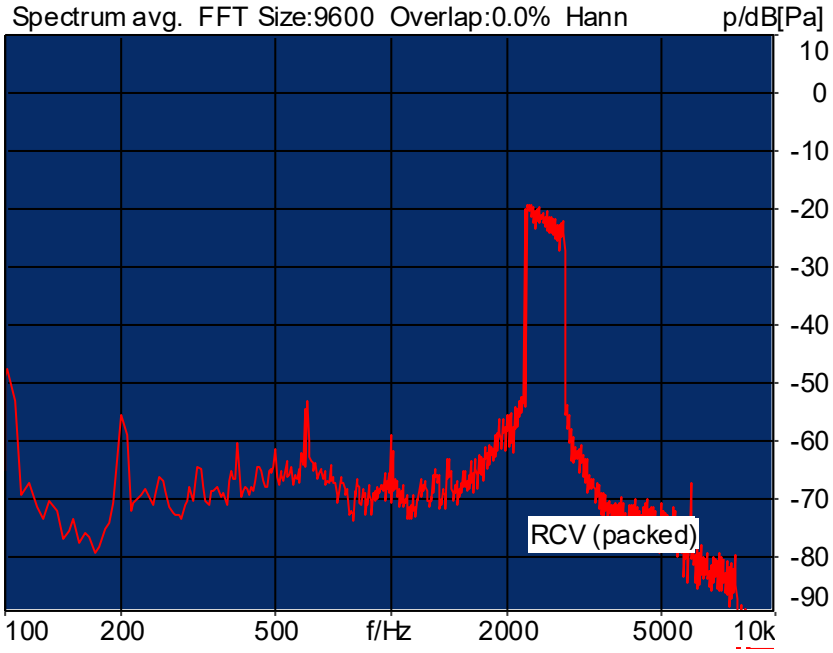
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.09 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

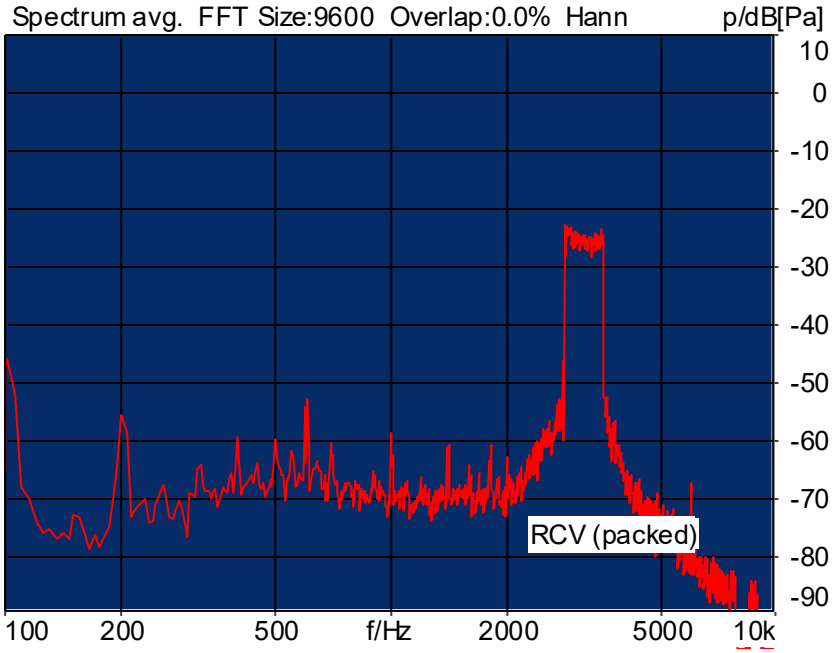
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.24 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

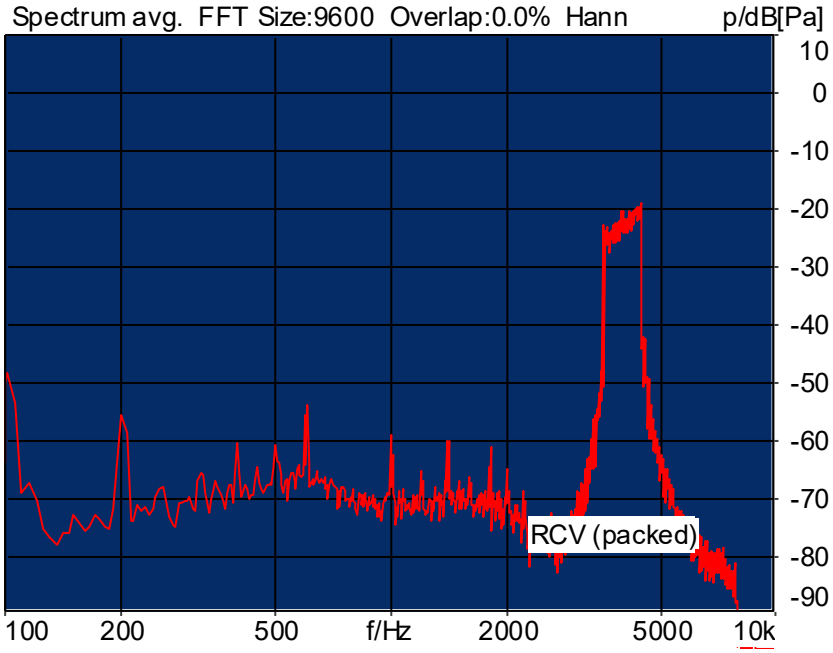
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.23 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

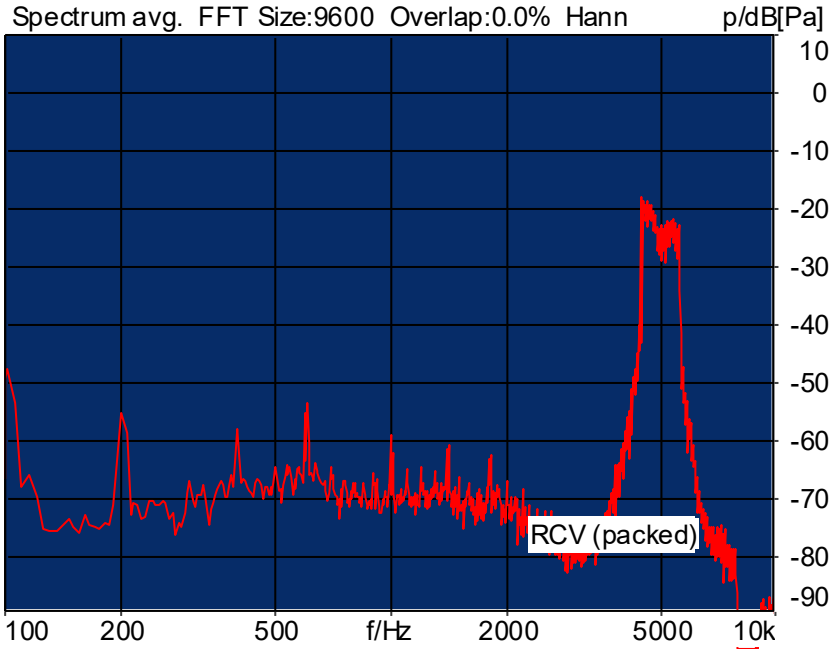
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 28.72 dB (3.67%) 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_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	159.4000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

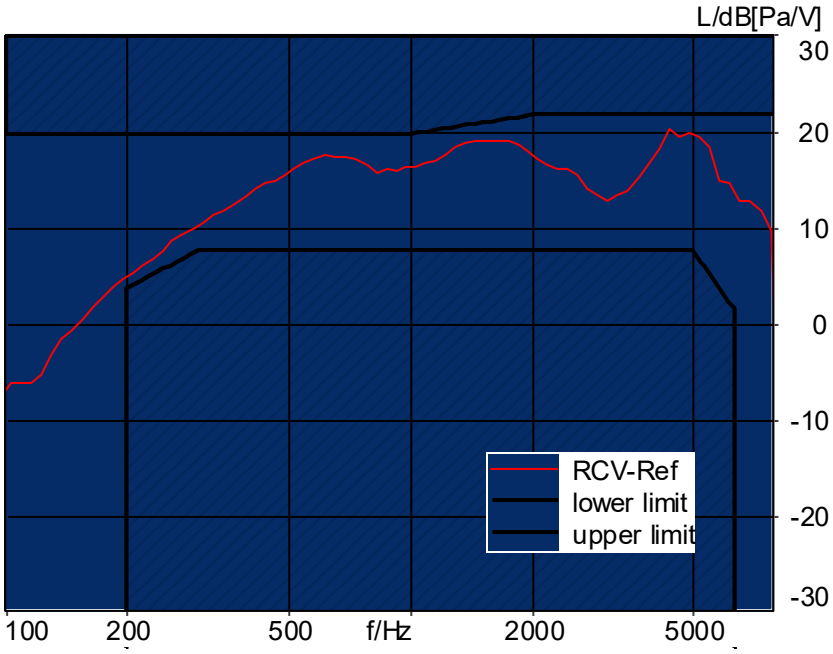
Used Setting	TIA5050

MFE VI Settings

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

5.3 Frequency Response 2N FF

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Absolute minimal distance
1.45 dB at 4369.4 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	159.4000 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(18#)

Measurement Object	Ti-CC26050303-N2

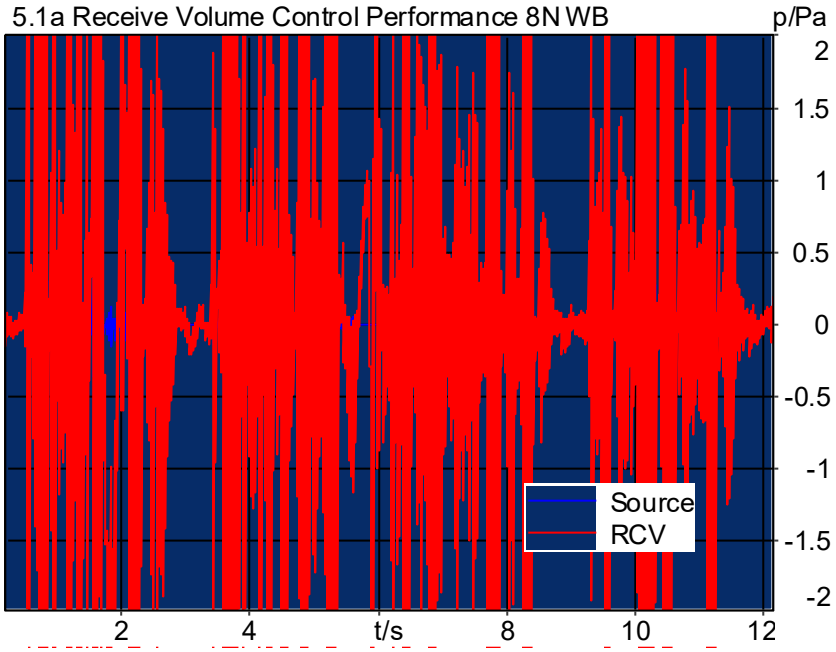
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.60	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.90	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.83	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.07	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.29	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.17	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.71	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.76	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.64	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.00	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.87	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.78	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.87	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.32	Ti-CC26050303-N2
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.81	Ti-CC26050303-N2

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.74	Ti-CC26050303-N2

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.60 dB[SPL]	83.56%	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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

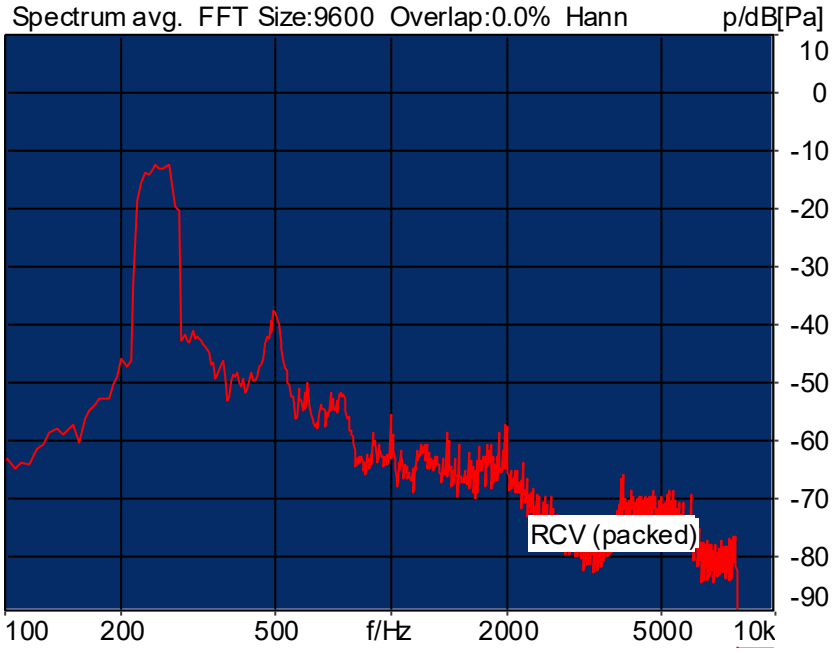
Used Setting	TIA5050

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 8N



Distortion (Noise) RCV (packed): 26.90 dB (4.52%) 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

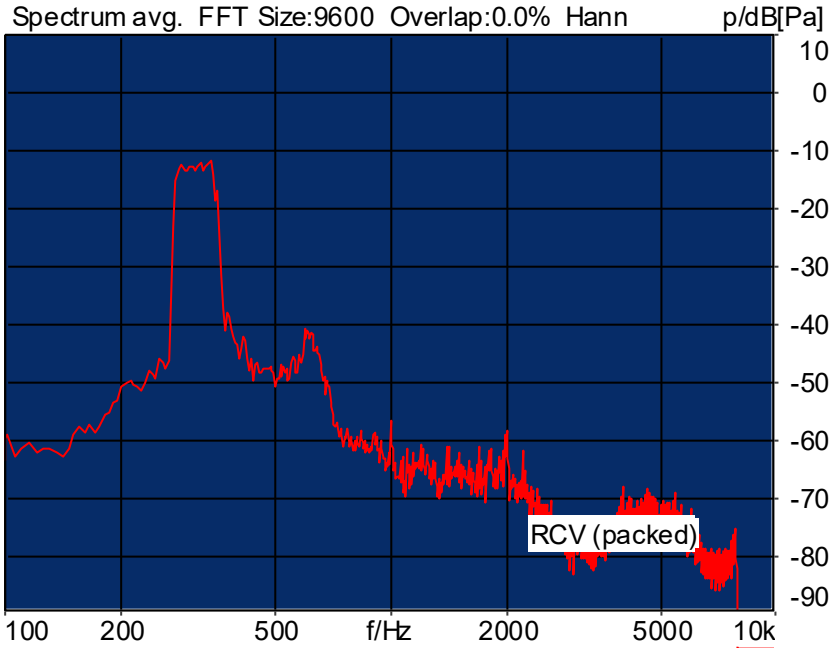
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.83 dB (3.62%) 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

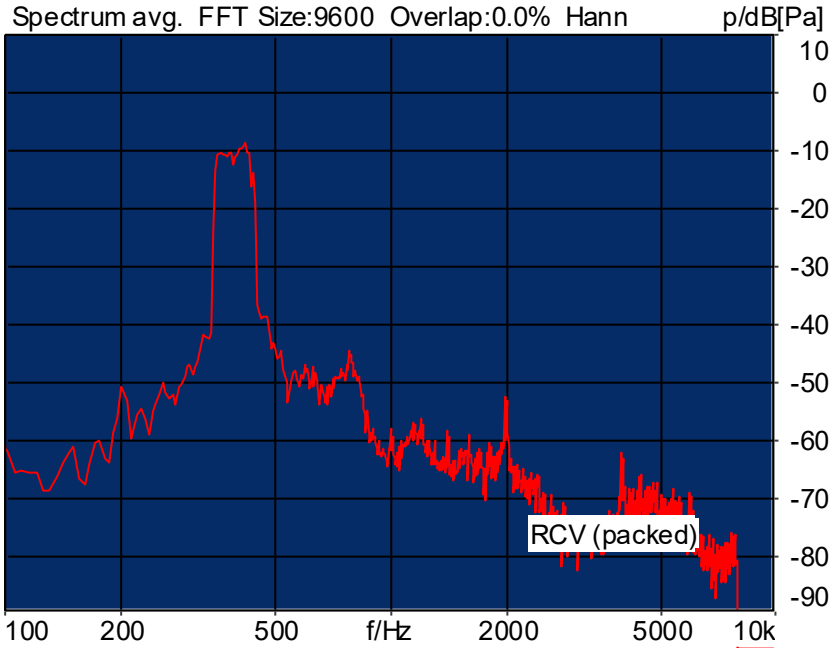
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.07 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

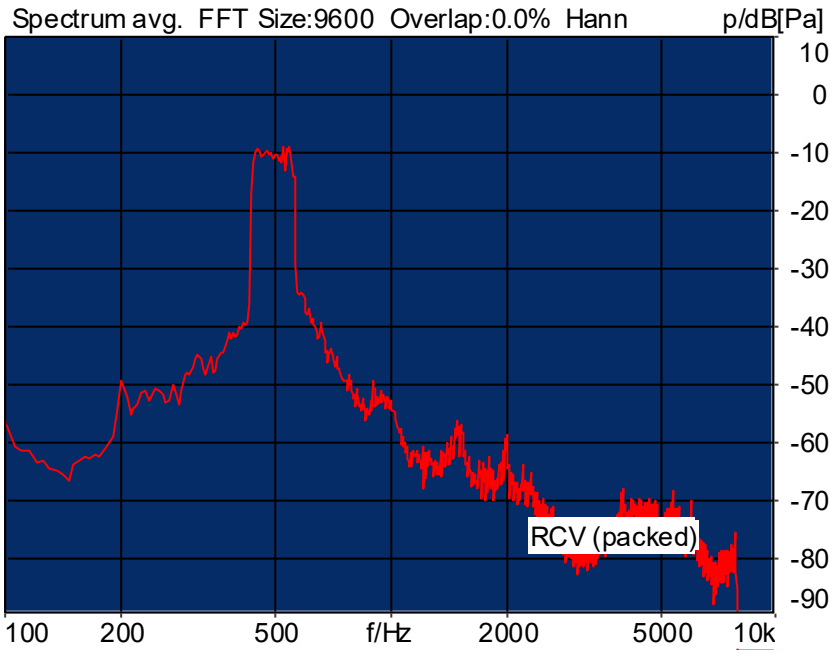
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.29 dB (3.06%) 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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

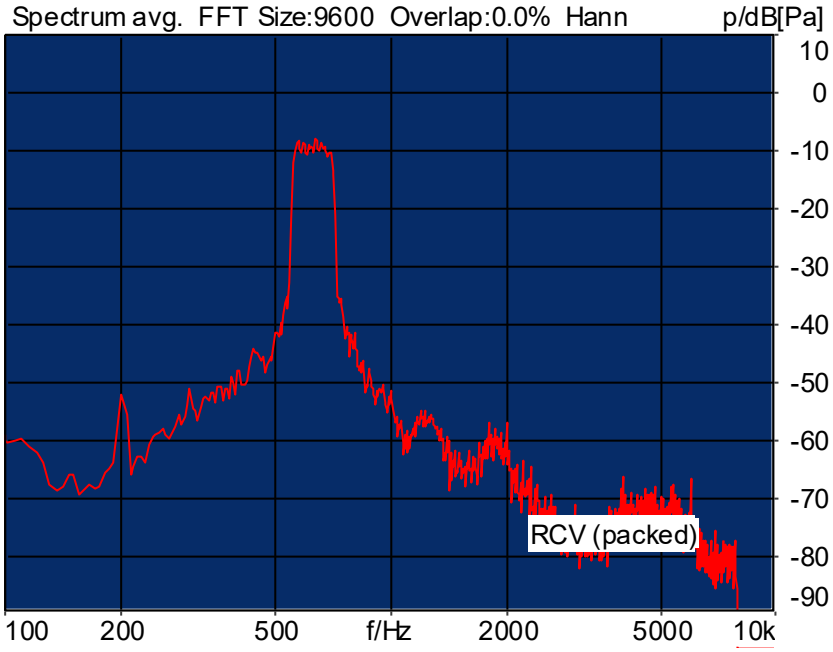
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.17 dB (2.19%) 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

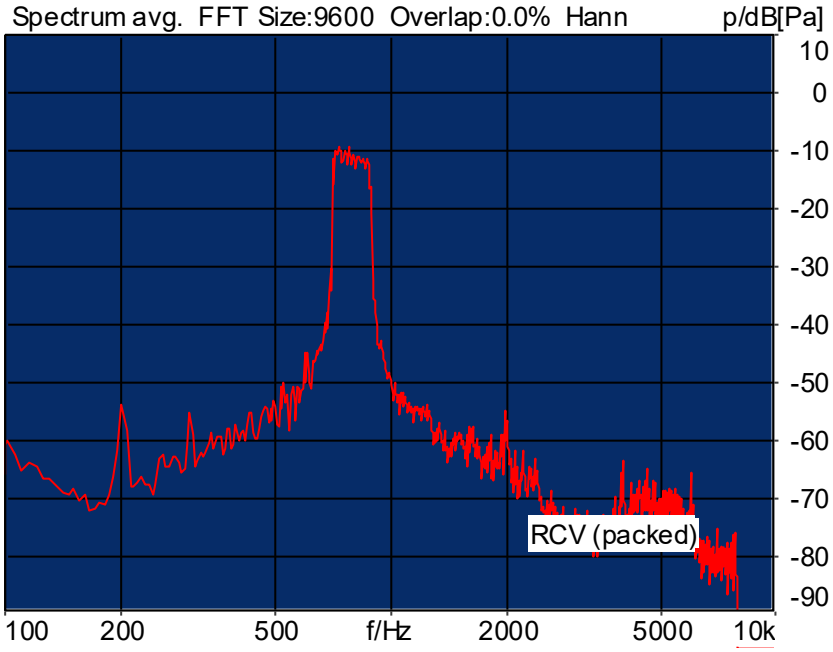
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.71 dB (2.06%) 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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

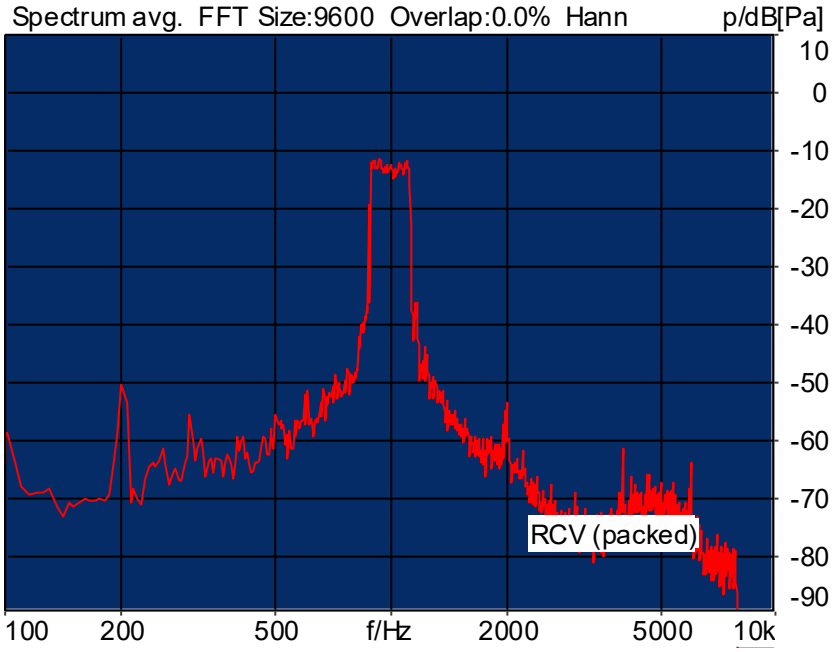
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.76 dB (2.90%) Ok

Ok

2026/6/22 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

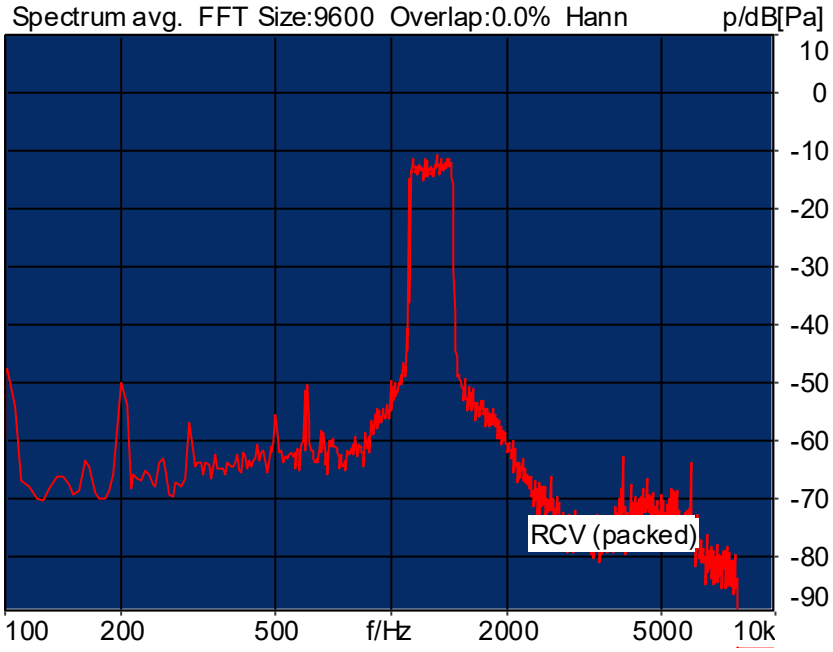
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.64 dB (2.62%) Ok

Ok

2026/6/22 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

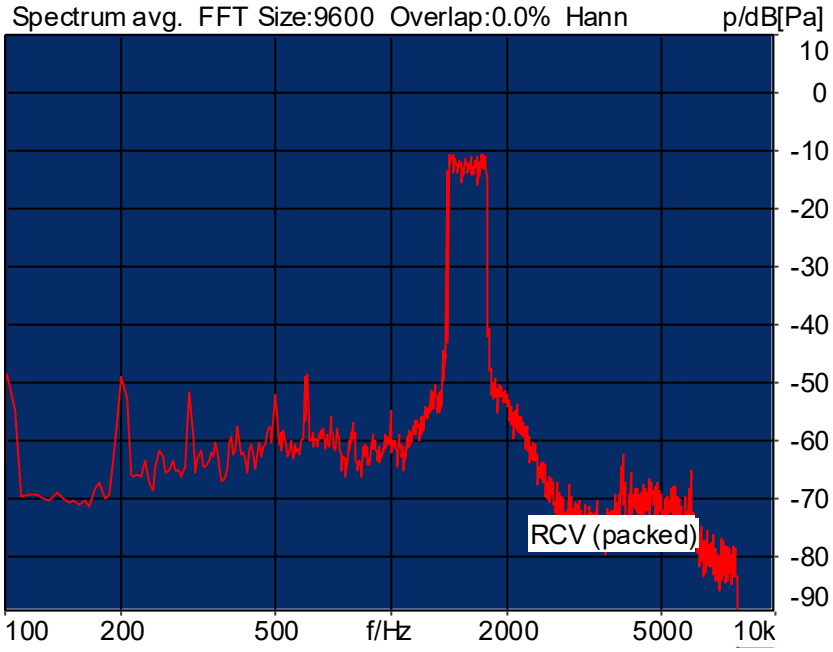
Used Setting	TIA5050

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): 37.00 dB (1.41%) Ok

Ok

2026/6/22 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

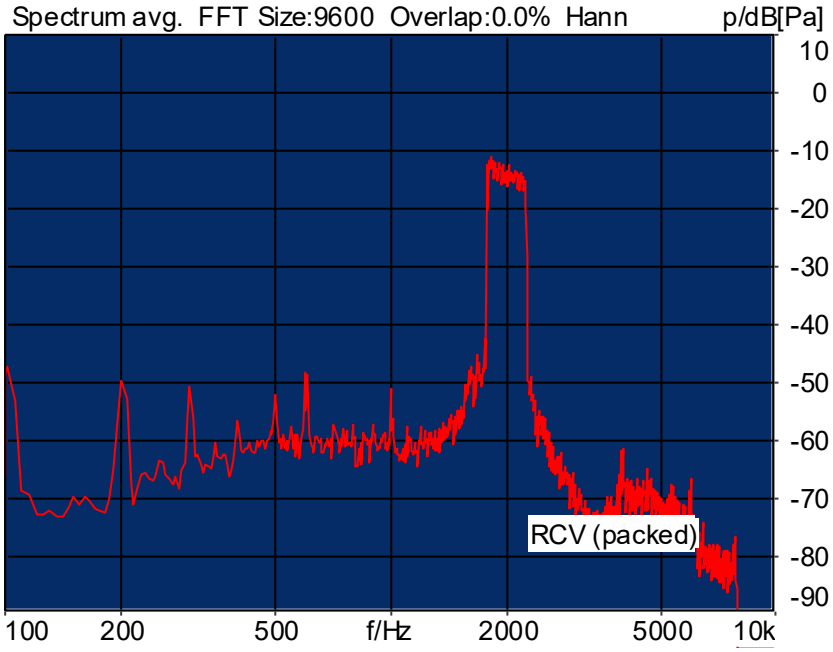
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.87 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

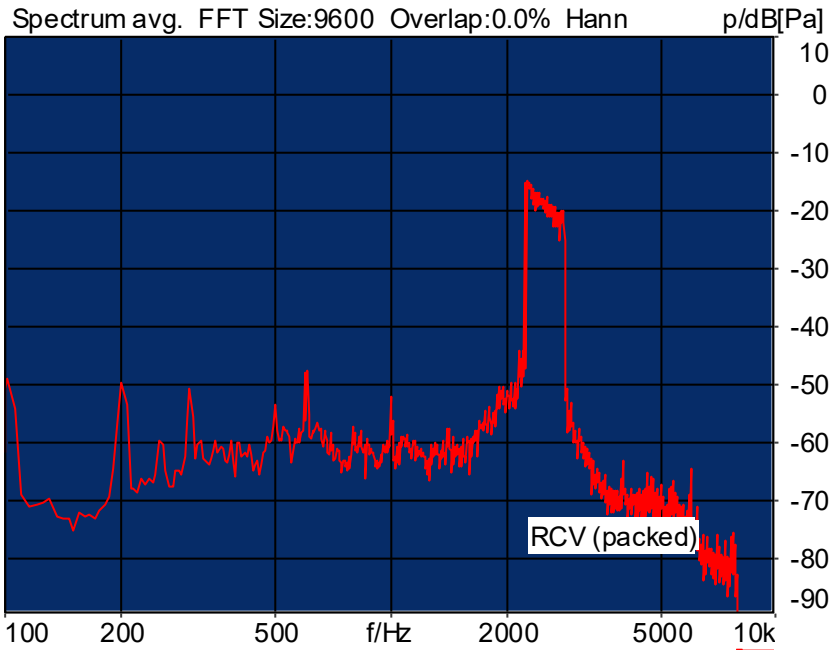
Used Setting	TIA5050

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



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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

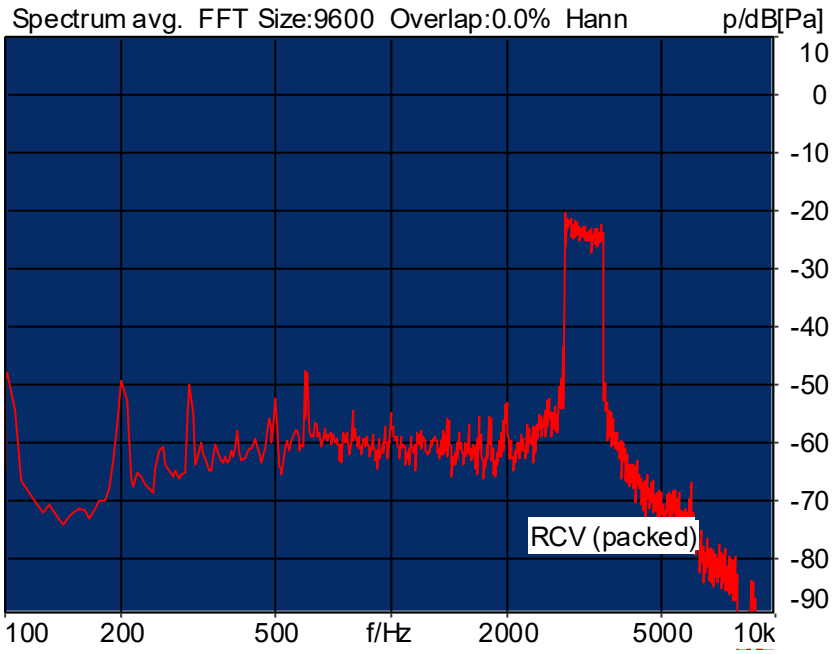
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.87 dB (4.04%) 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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

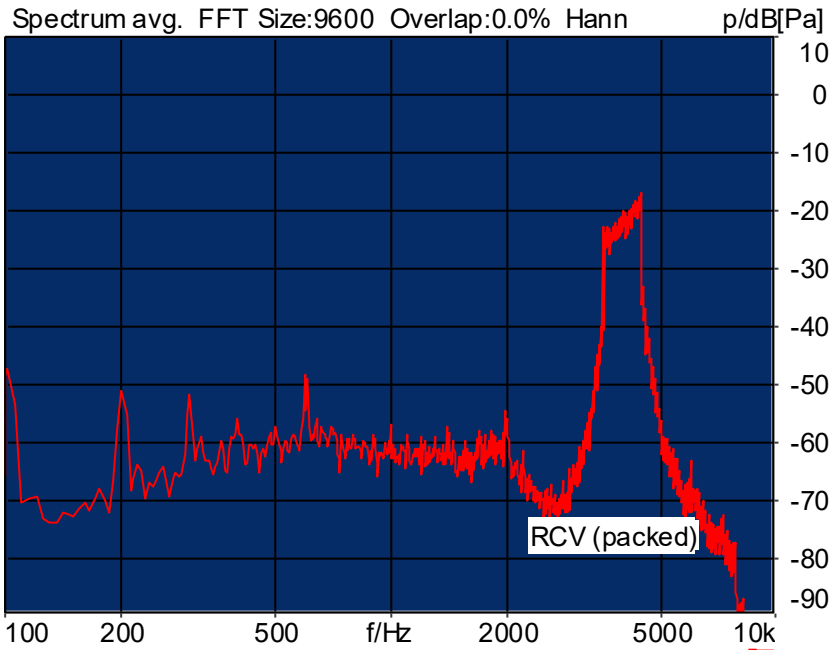
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 22.32 dB (7.65%) Ok

Ok

2026/6/22 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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

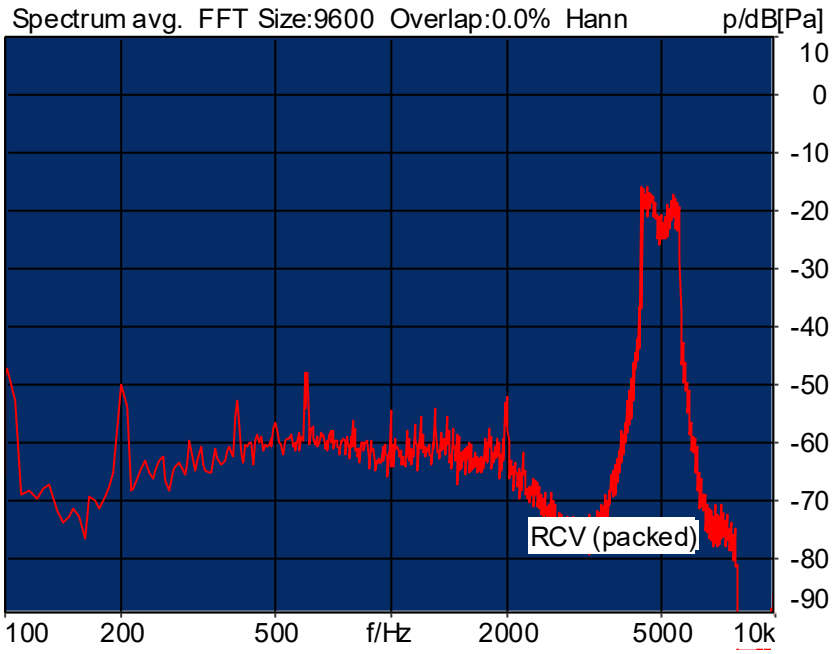
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.81 dB (4.07%) Ok

Ok

2026/6/22 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_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	160.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

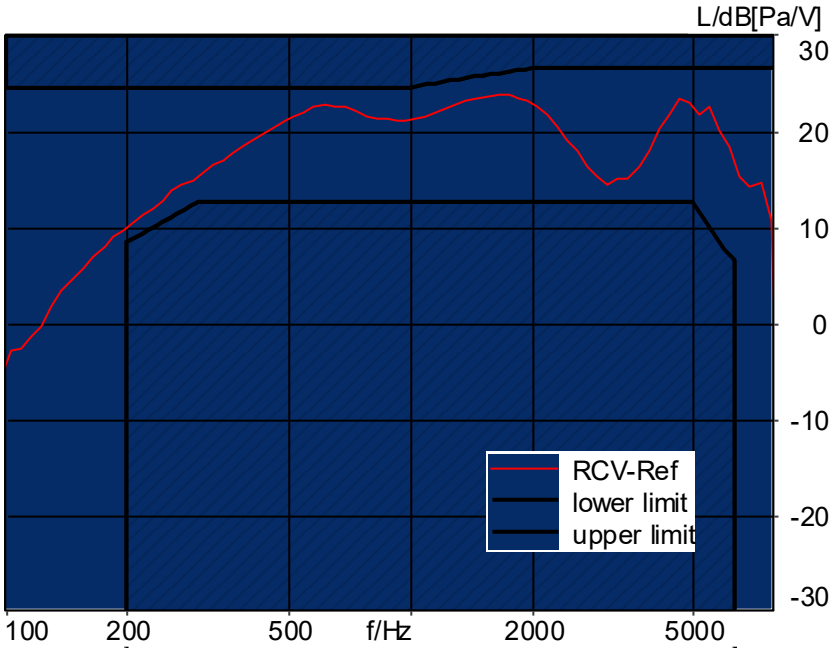
Used Setting	TIA5050

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
1.74 dB at 611.7 Hz Ok

Ok

2026/6/22 11:33 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	160.1000 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-CC26050303-N5

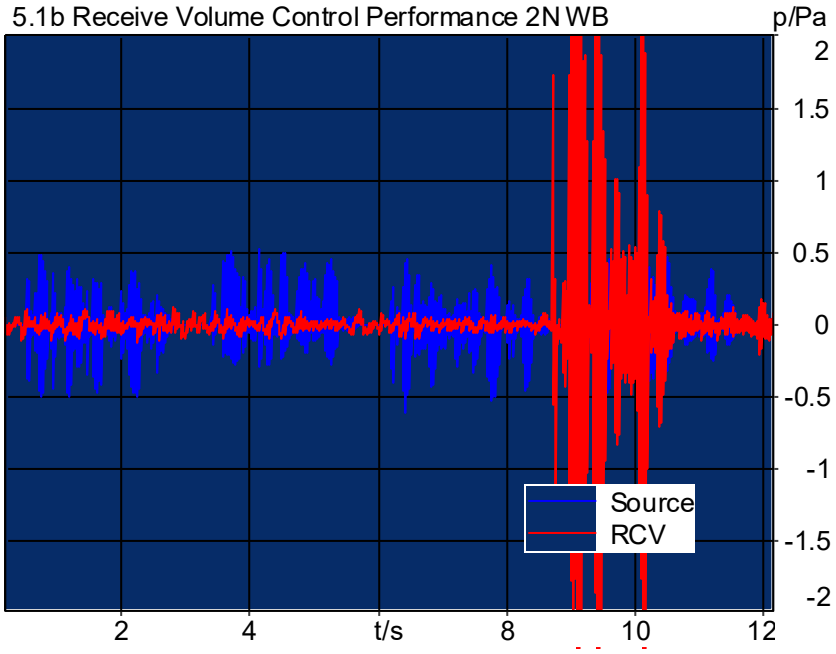
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.84	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.24	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.57	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.13	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.54	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.14	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.53	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.35	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.94	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.35	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.02	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.95	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.88	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.06	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.07	Ti-CC26050303-N5

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.38	Ti-CC26050303-N5

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	86.84 dB[SPL]	14.73%	Ok

Ok

2026/6/22 9:52 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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

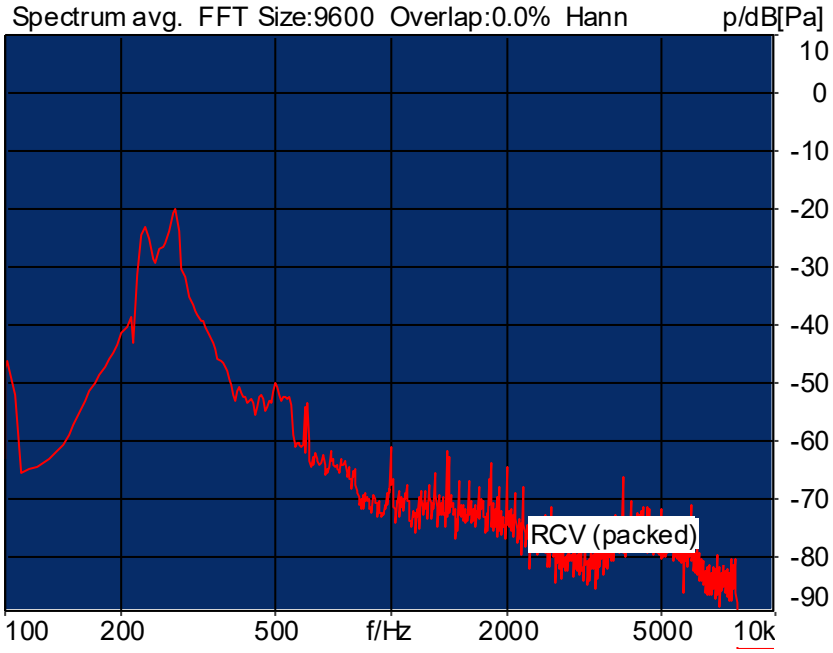
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 22.24 dB (7.73%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

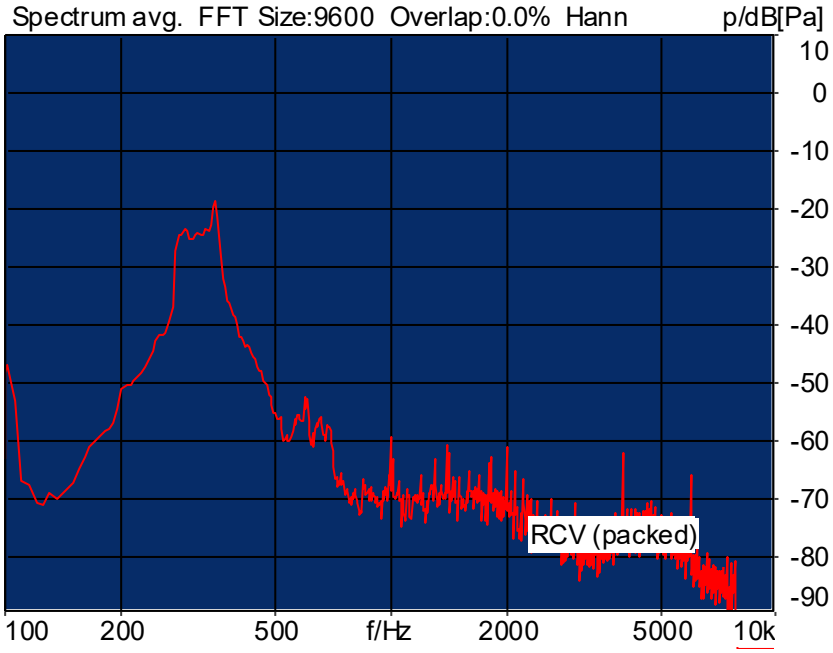
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 23.57 dB (6.63%) Ok

Ok

2026/6/22 9:52 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

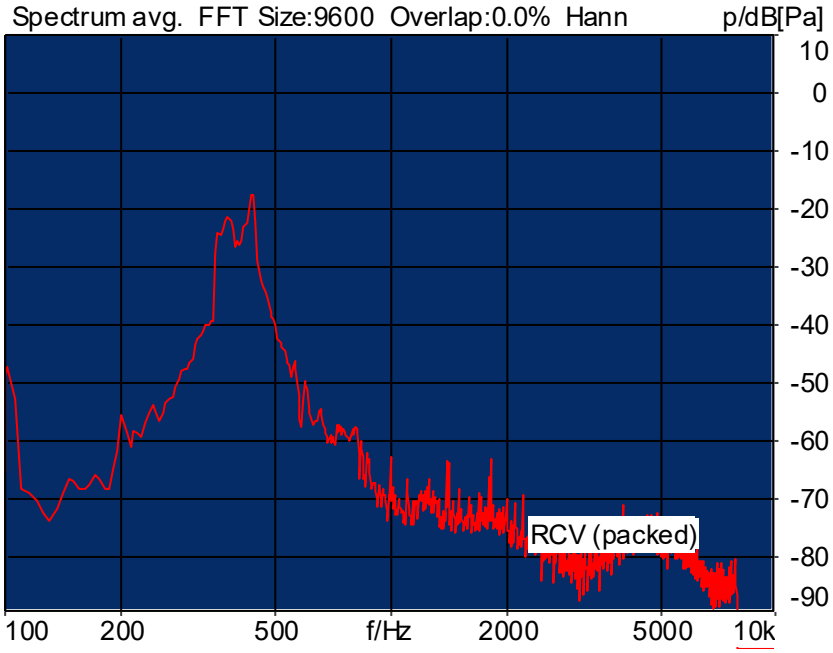
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 23.13 dB (6.97%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

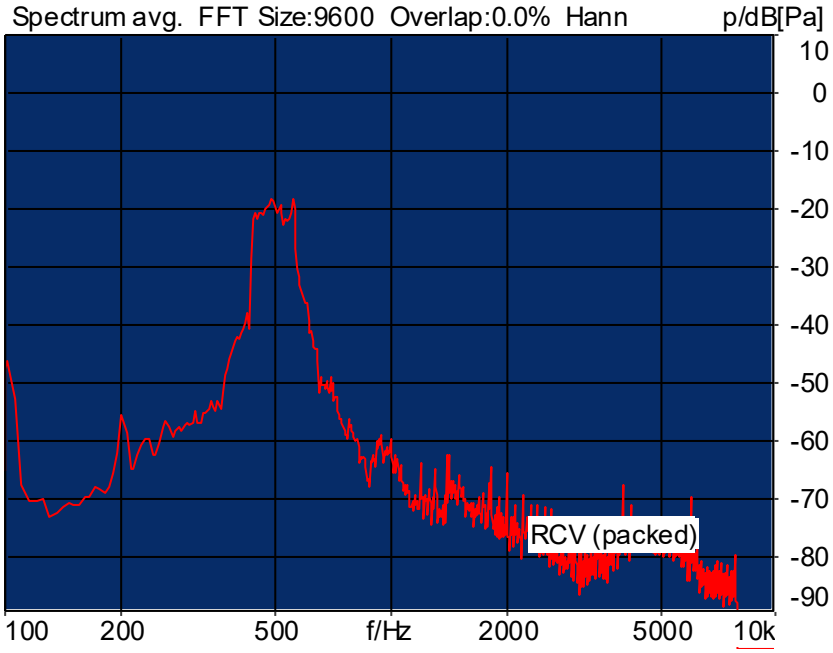
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 24.54 dB (5.93%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

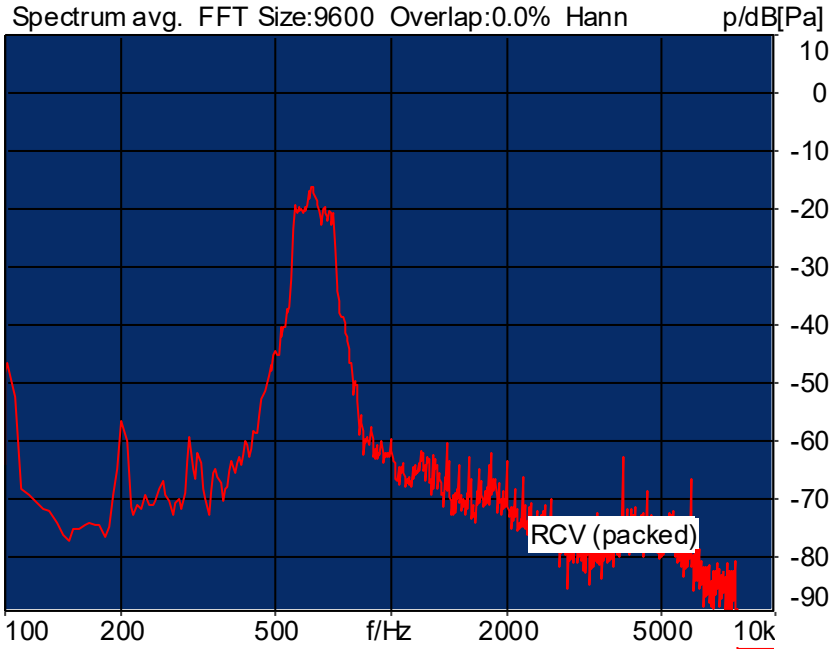
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 27.14 dB (4.40%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

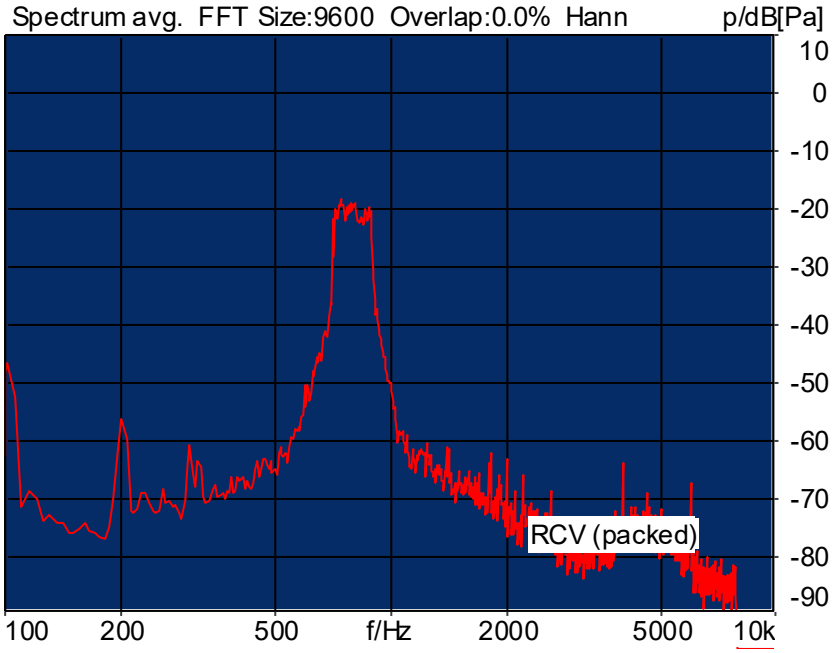
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.53 dB (4.72%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

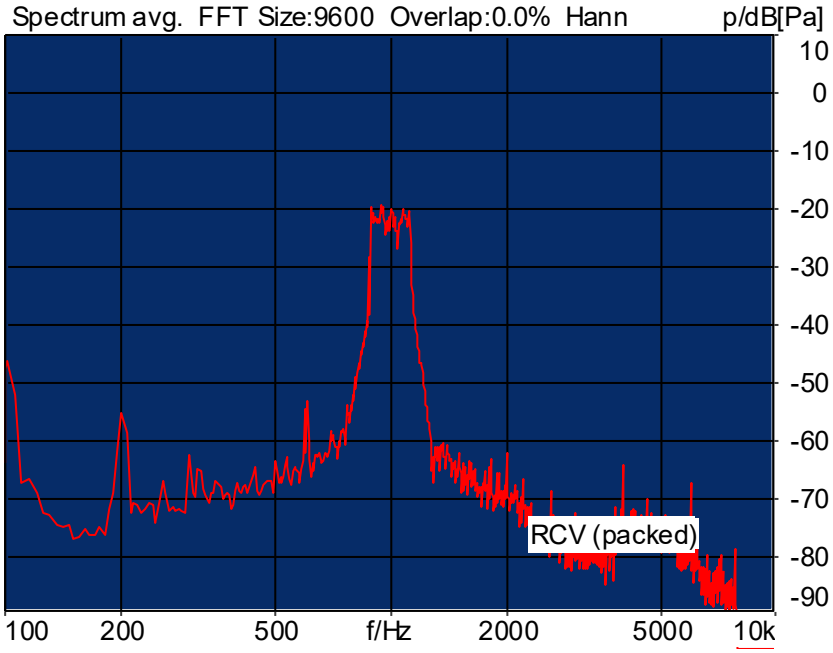
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.35 dB (4.81%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

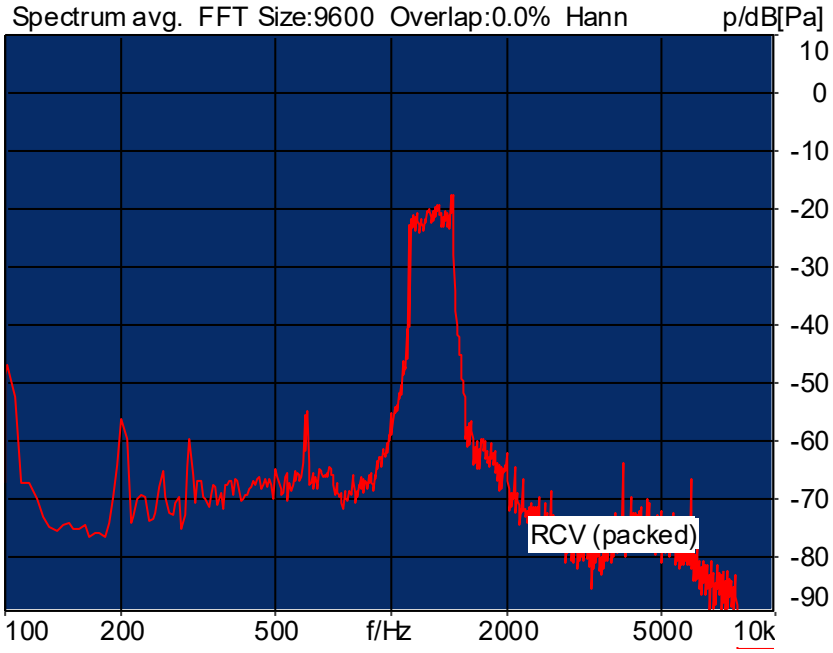
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 20.94 dB (8.98%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

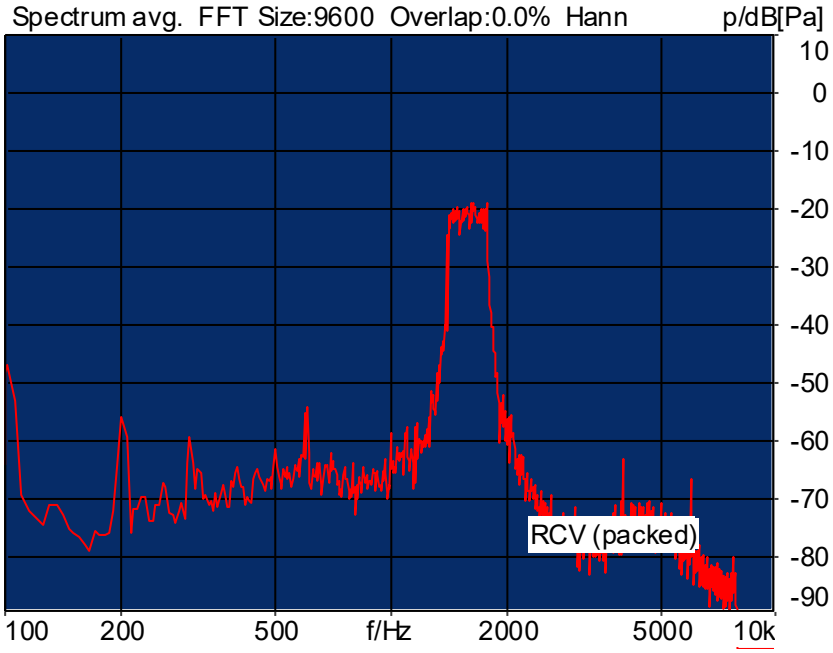
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.35 dB (4.81%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

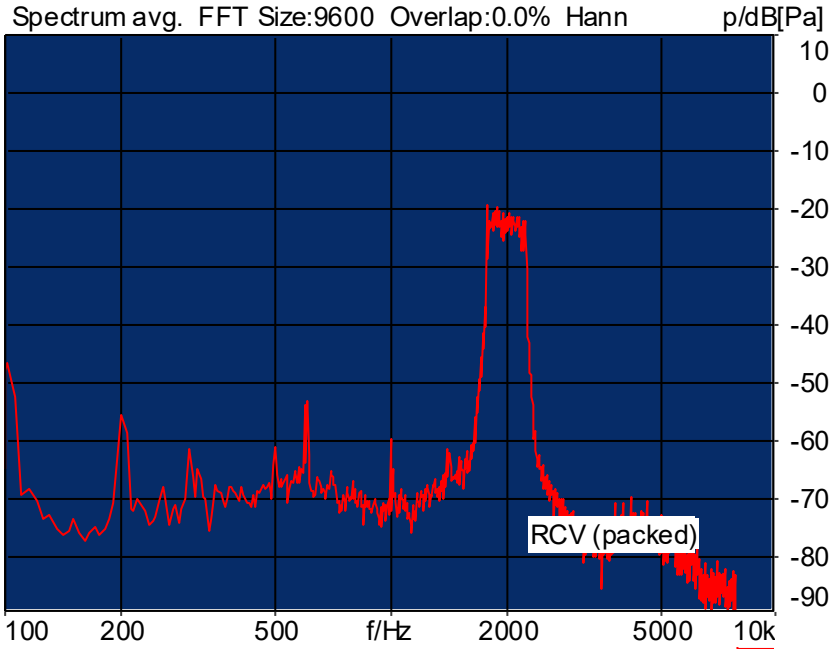
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 29.02 dB (3.54%) 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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

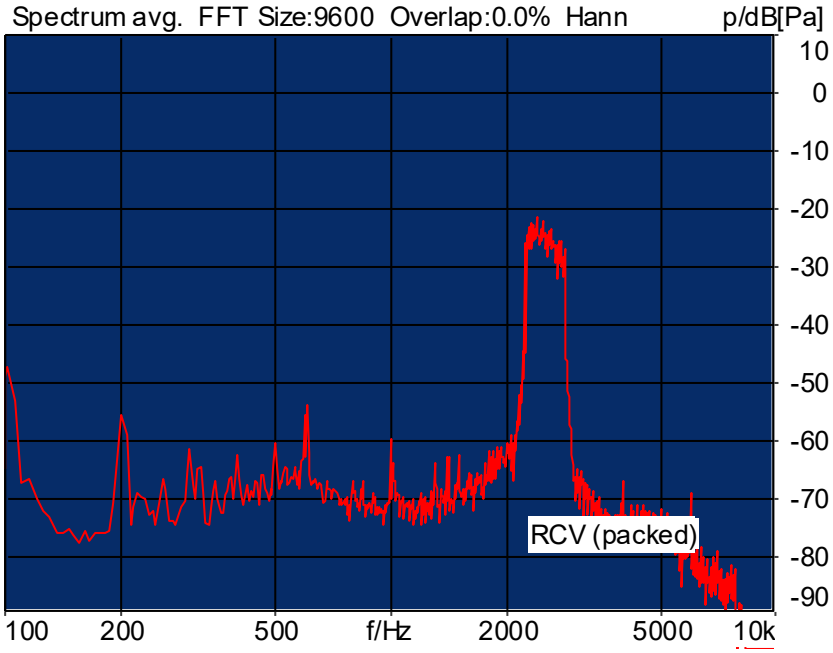
Used Setting	TIA5050

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-24.4



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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

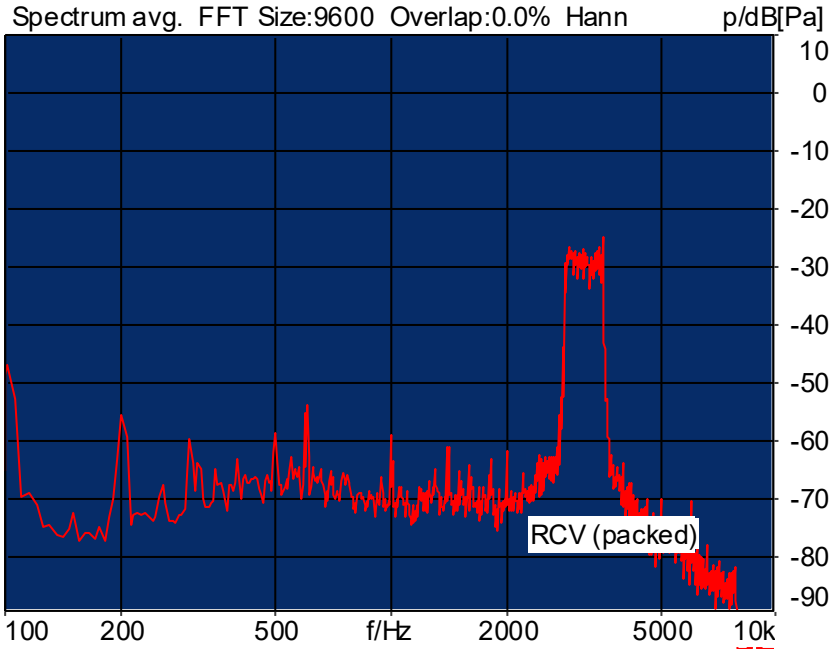
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 27.88 dB (4.04%) 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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

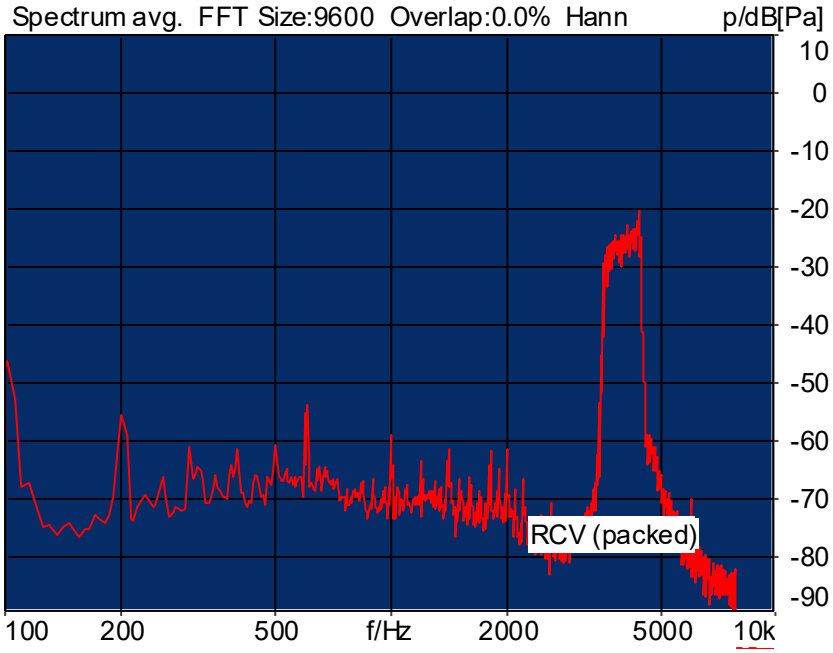
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.06 dB (2.80%) 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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

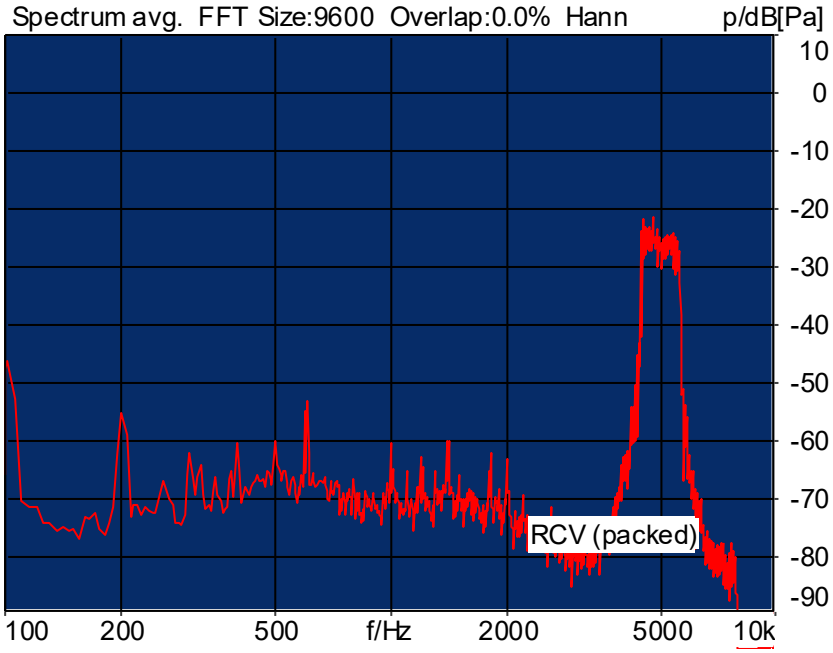
Used Setting	TIA5050

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-24.4



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_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	1224.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

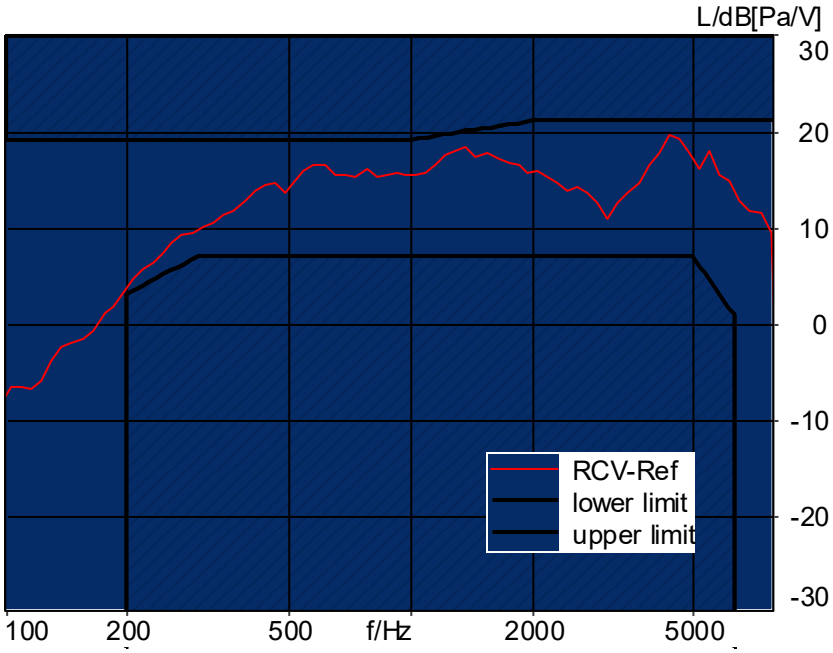
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
1.38 dB at 4369.4 Hz Ok

Ok

2026/6/22 9:58 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	1224.9000 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

Measurement Protocol(20#)

Measurement Object	Ti-CC26050303-N5

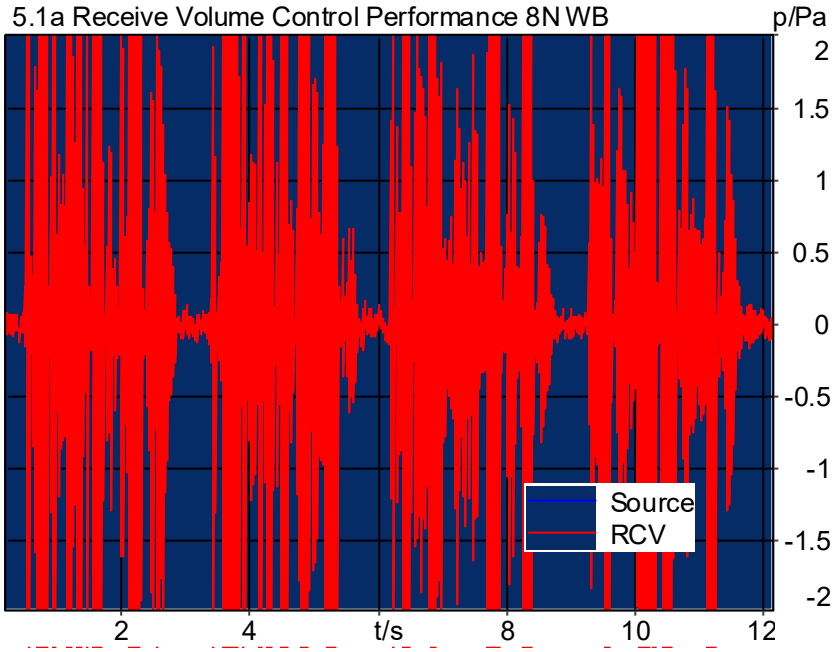
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.69	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.71	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.25	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.84	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.40	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.44	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.91	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.46	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.39	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.60	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.73	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.88	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.11	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.42	Ti-CC26050303-N5
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.88	Ti-CC26050303-N5

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	1.77	Ti-CC26050303-N5

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.69 dB[SPL]	82.63%	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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

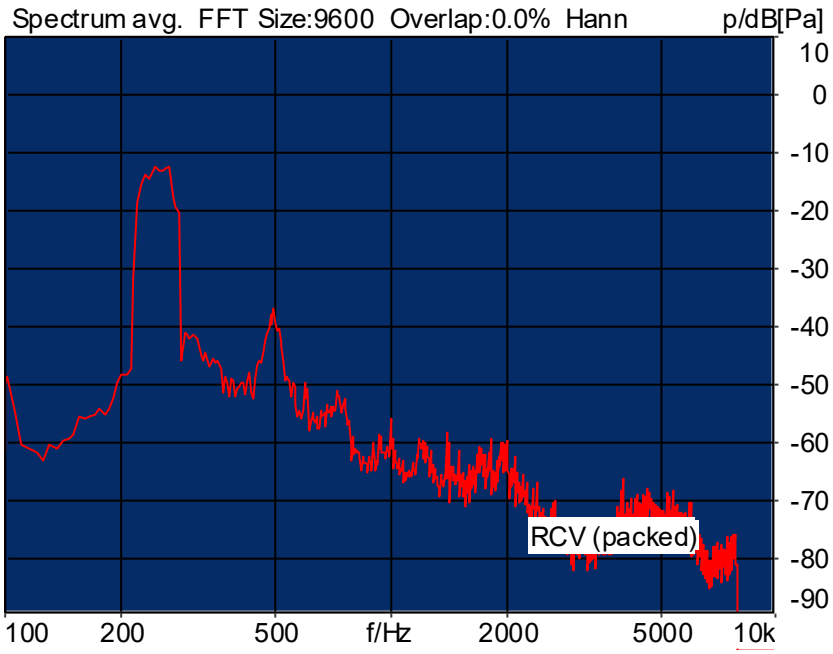
Used Setting	TIA5050

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 8N



Distortion (Noise) RCV (packed): 26.71 dB (4.62%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

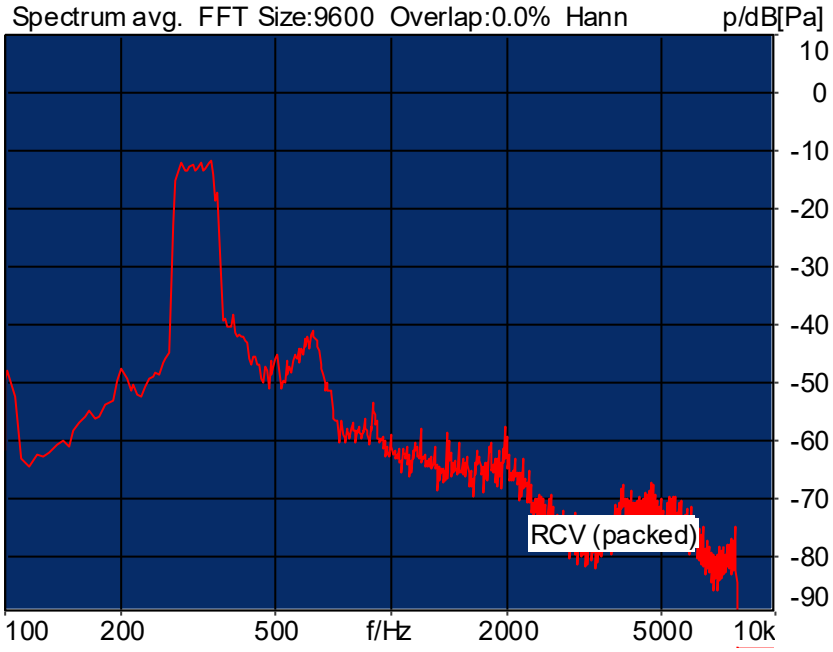
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.25 dB (3.87%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

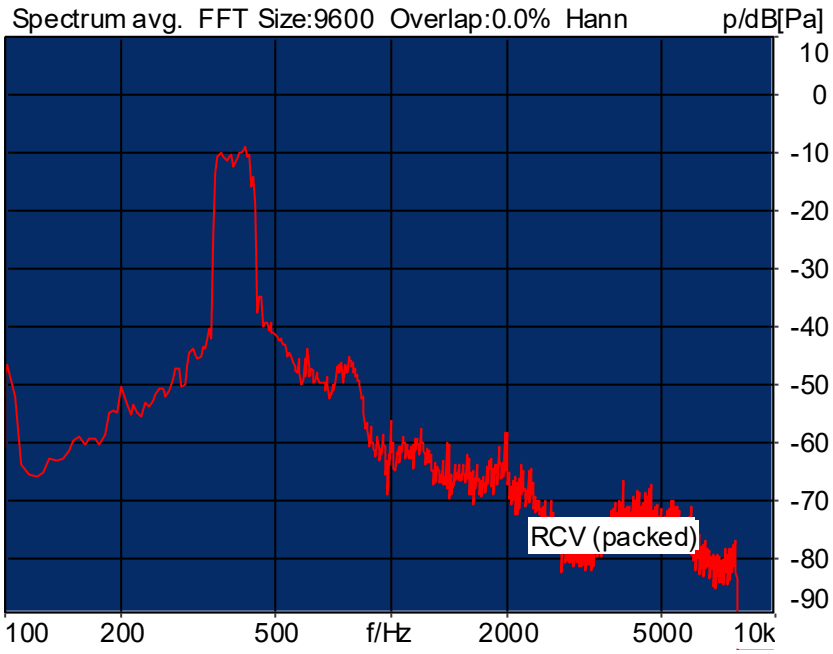
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.84 dB (2.87%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

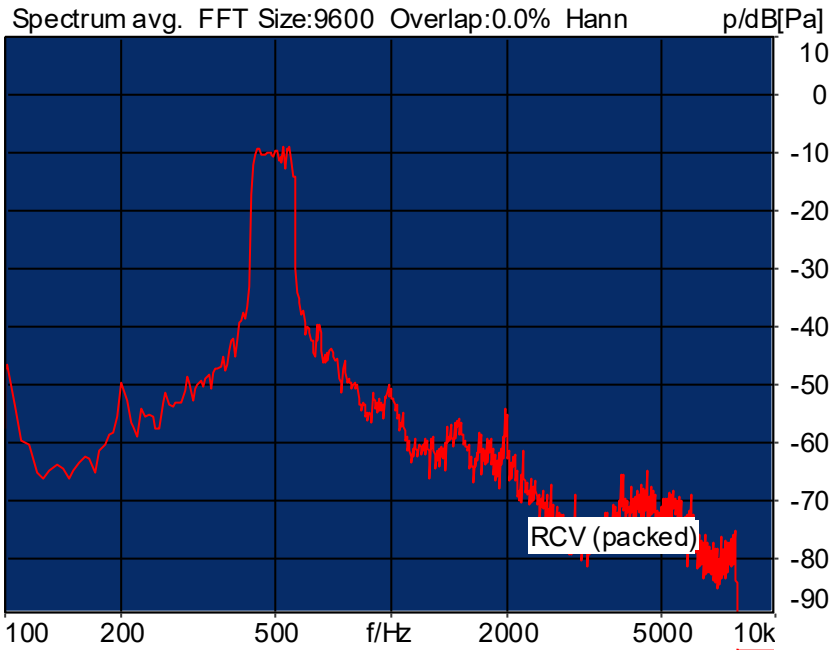
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.40 dB (2.69%) 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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

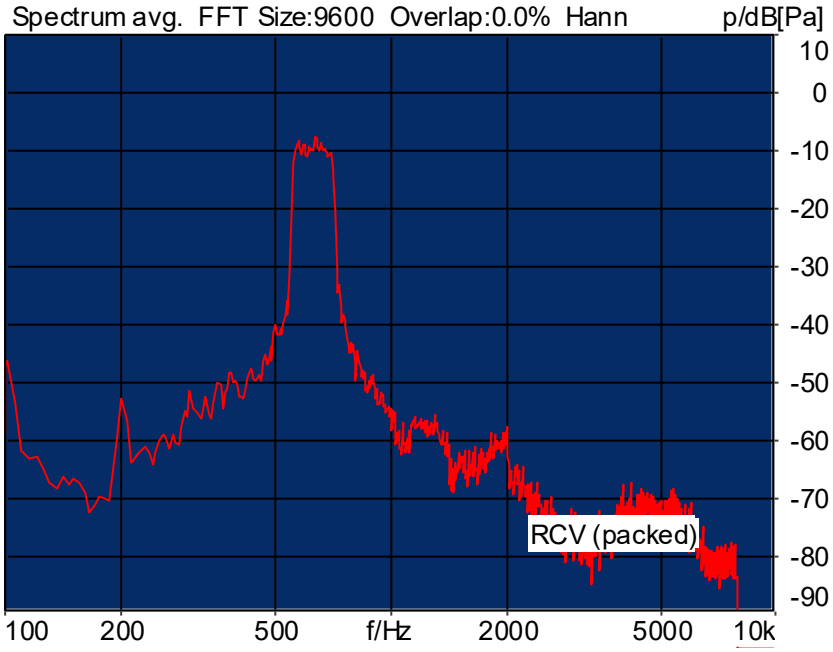
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.44 dB (2.13%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

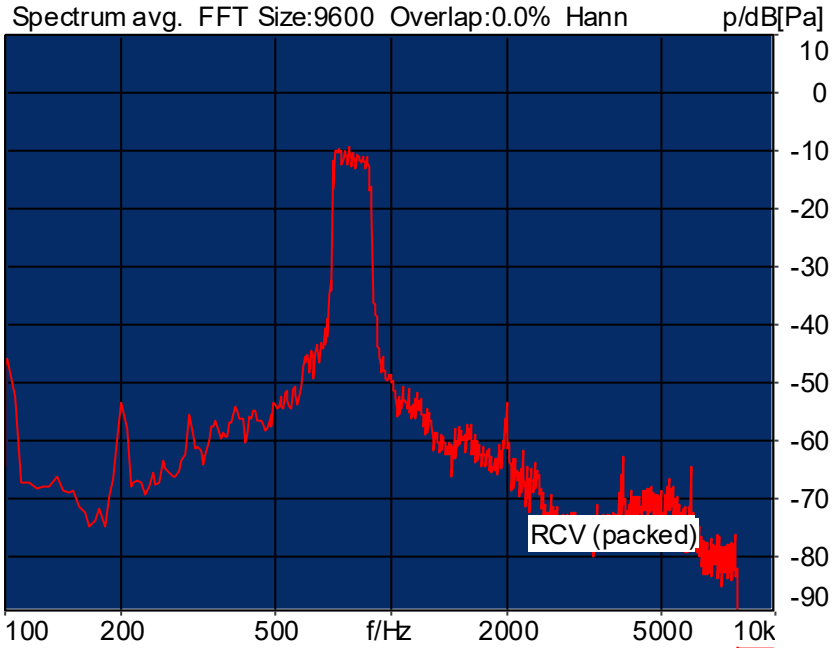
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.91 dB (2.02%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

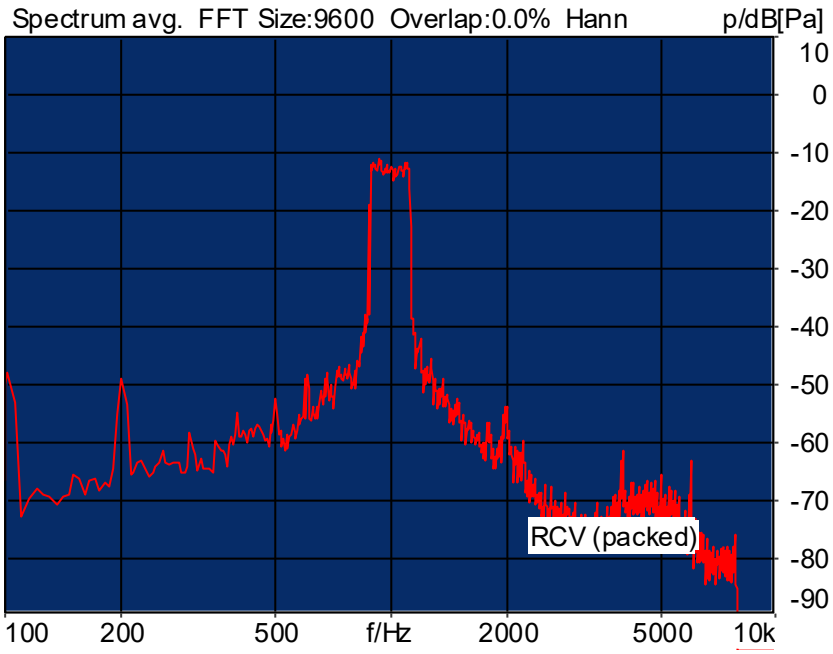
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.46 dB (2.67%) Ok

Ok

2026/6/22 11:23 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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

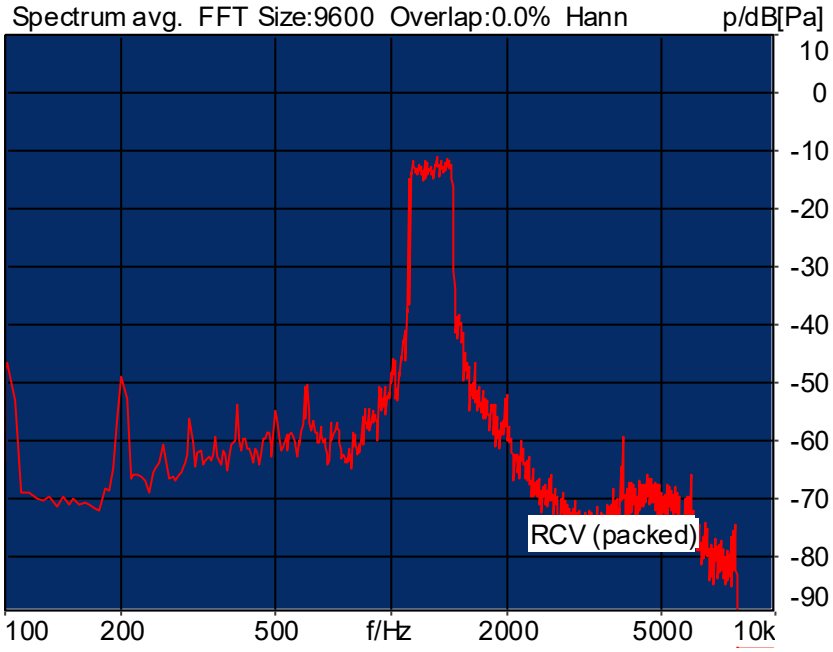
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.39 dB (3.81%) Ok

Ok

2026/6/22 11:24 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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

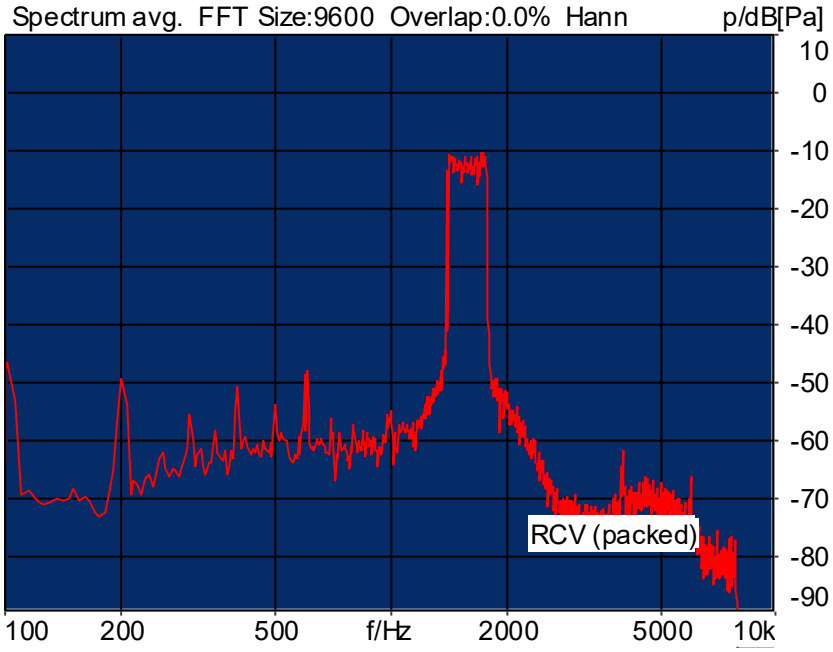
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 36.60 dB (1.48%) Ok

Ok

2026/6/22 11:24 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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

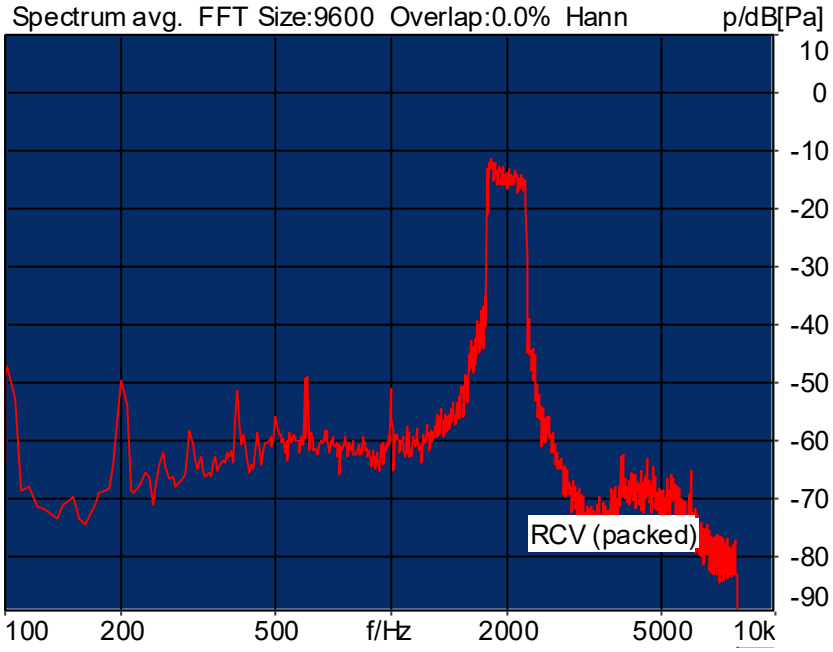
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.73 dB (3.26%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

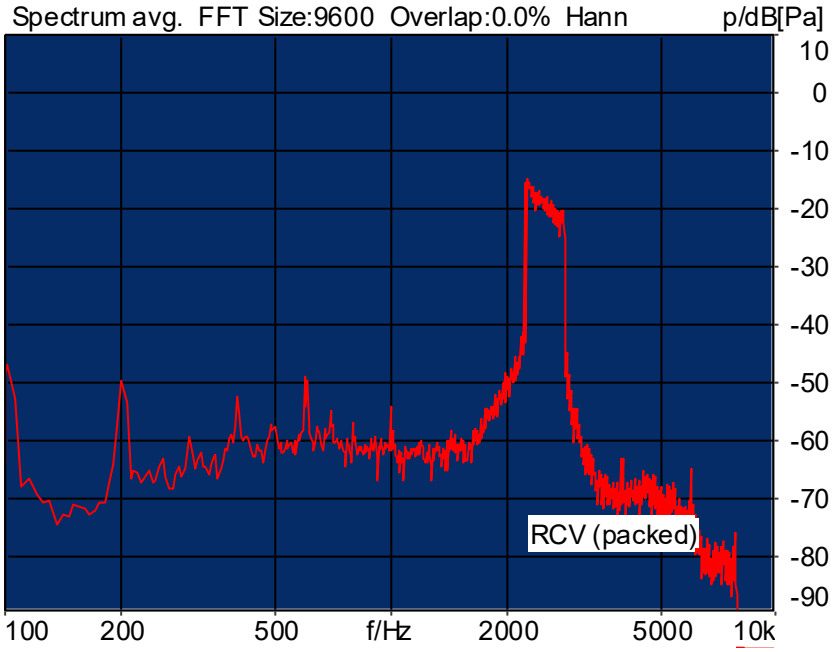
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.88 dB (3.60%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

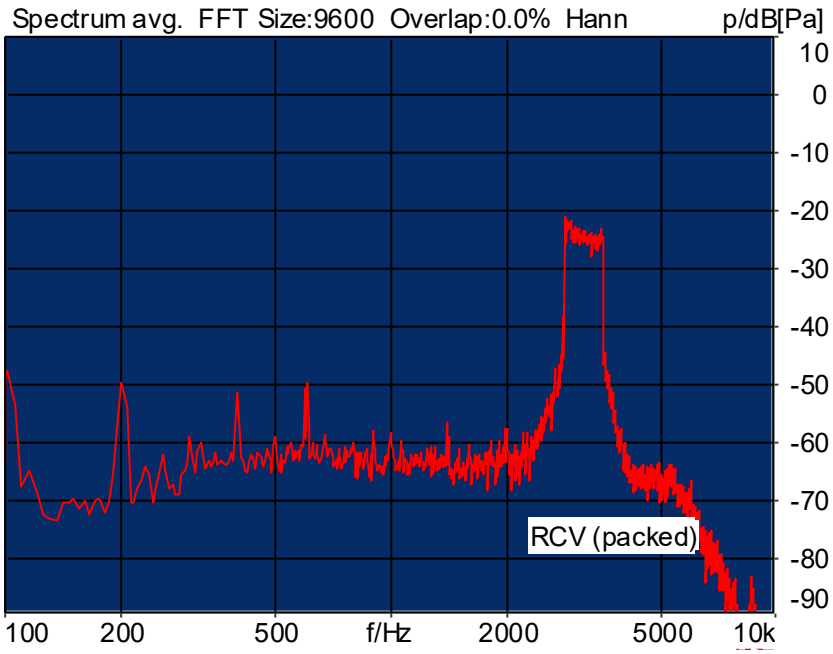
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 25.11 dB (5.56%) 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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

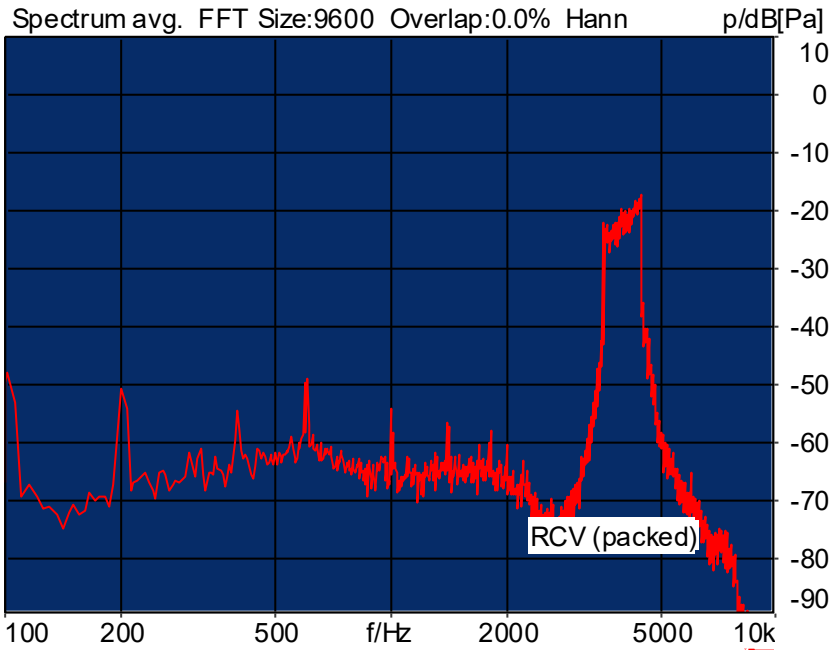
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 25.42 dB (5.36%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

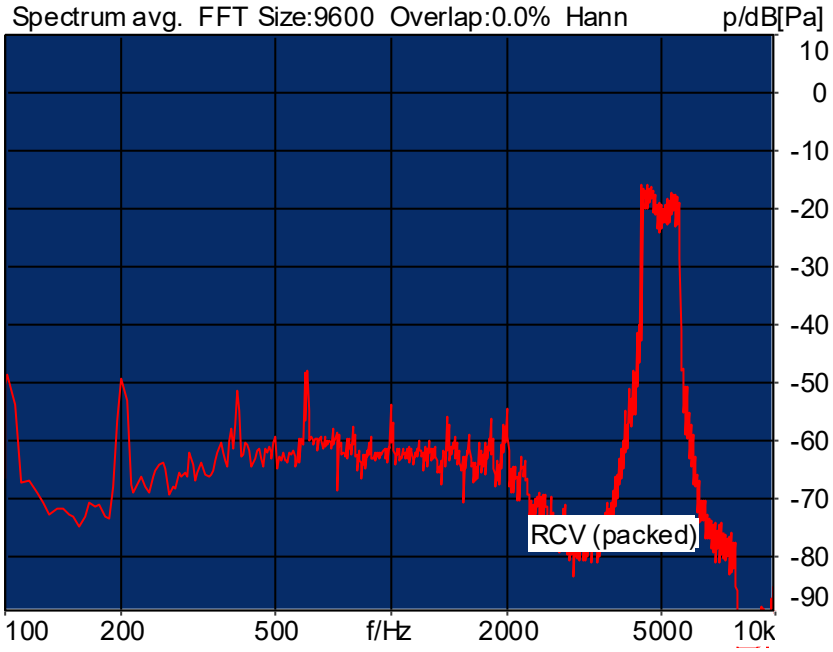
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.88 dB (2.55%) 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_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	158.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

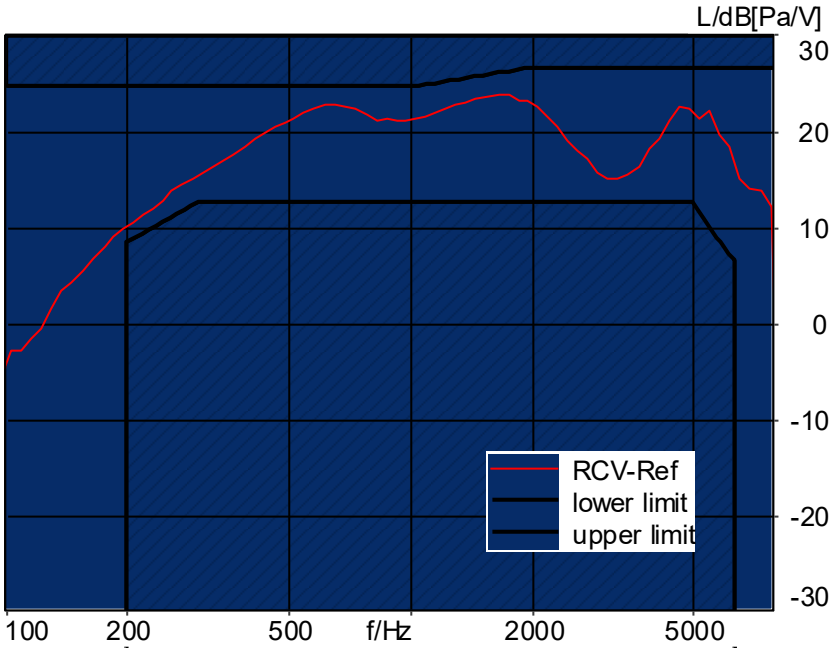
Used Setting	TIA5050

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
1.77 dB at 205.7 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	158.3000 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(21#)

Measurement Object	Ti-CC26050303-N14

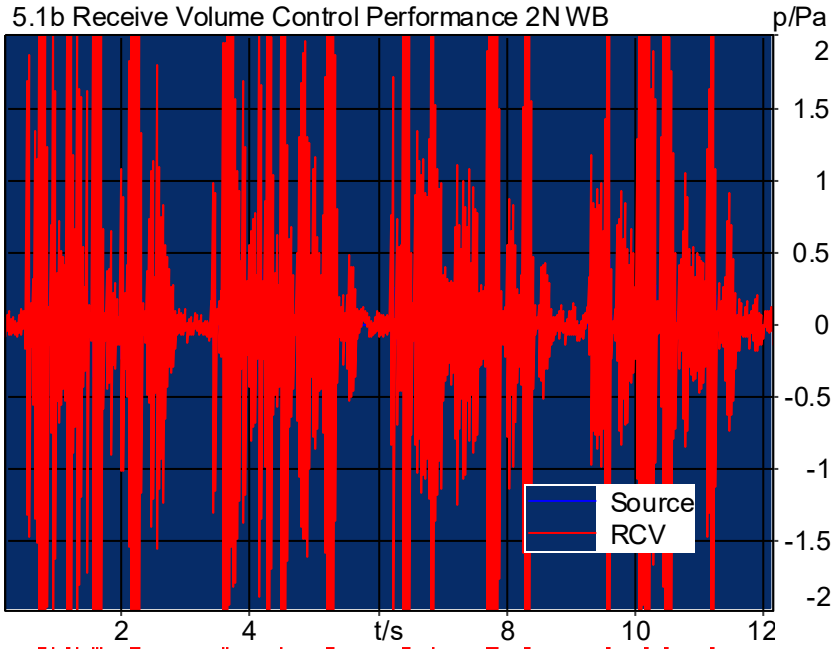
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.45	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.23	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.68	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.62	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.89	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.22	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.95	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.64	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.35	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.62	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.19	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.69	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.70	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.70	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.48	Ti-CC26050303-N14

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4870.0 Hz	1.42	Ti-CC26050303-N14

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	86.45 dB[SPL]	84.08%	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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

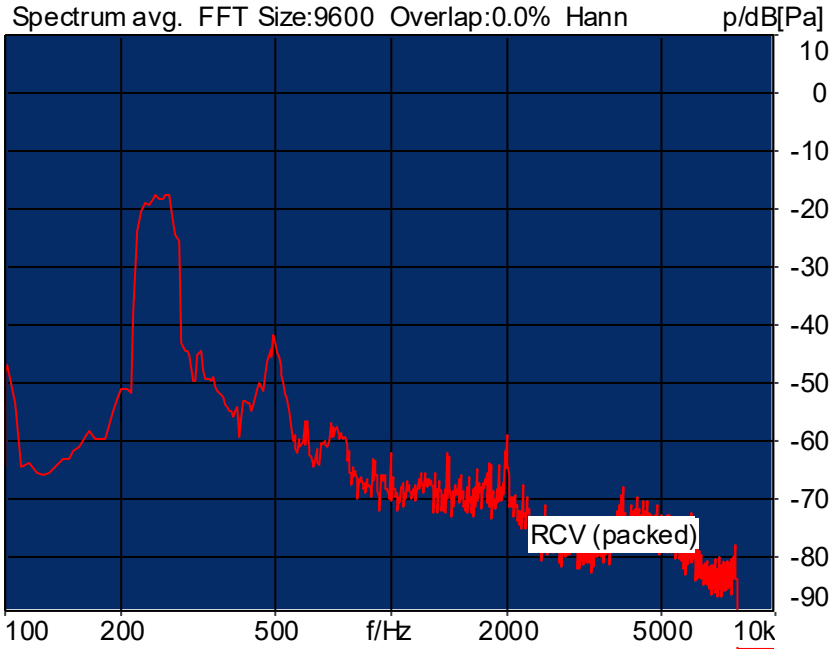
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 26.23 dB (4.88%) 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

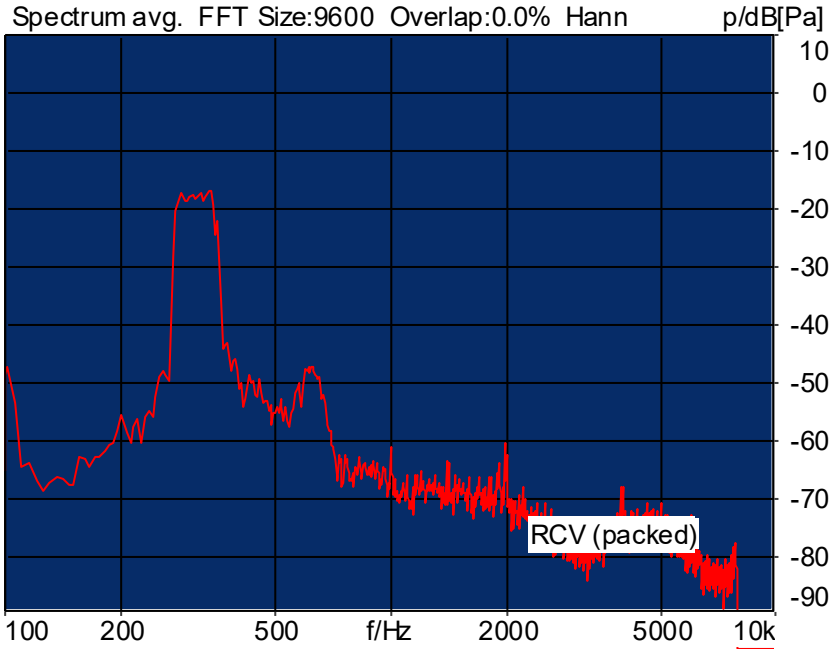
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 28.68 dB (3.68%) 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

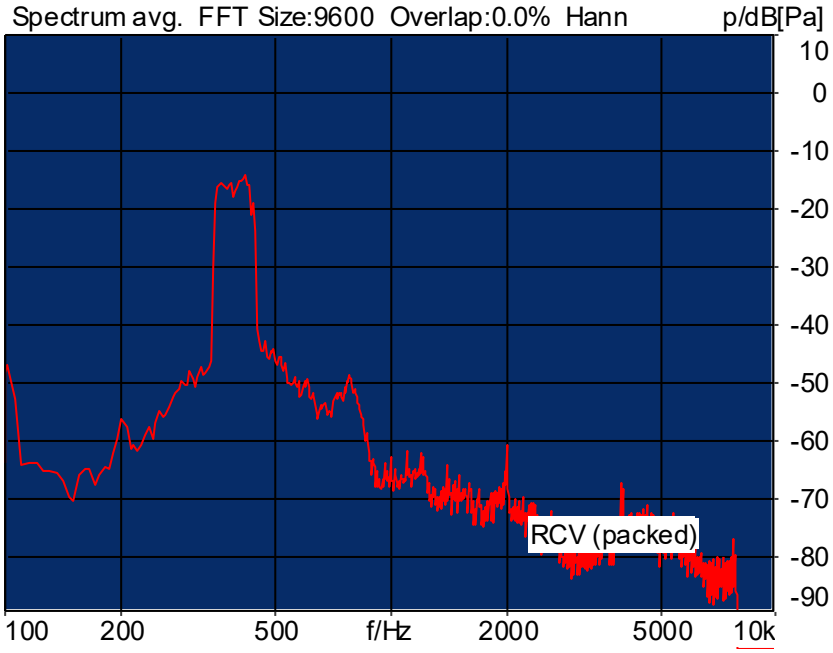
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 29.62 dB (3.30%) Ok

Ok

2026/6/22 10:22 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

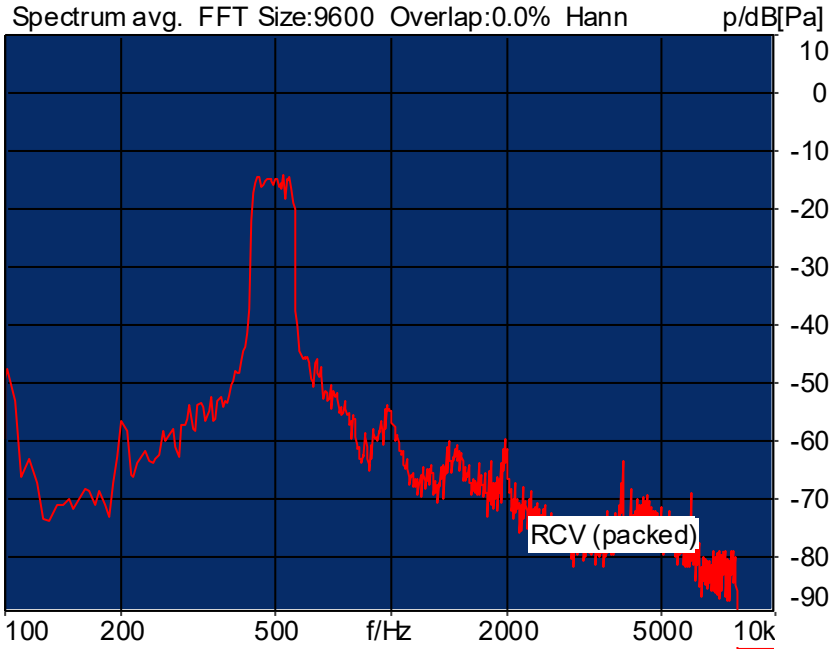
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 31.89 dB (2.54%) Ok

Ok

2026/6/22 10:23 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

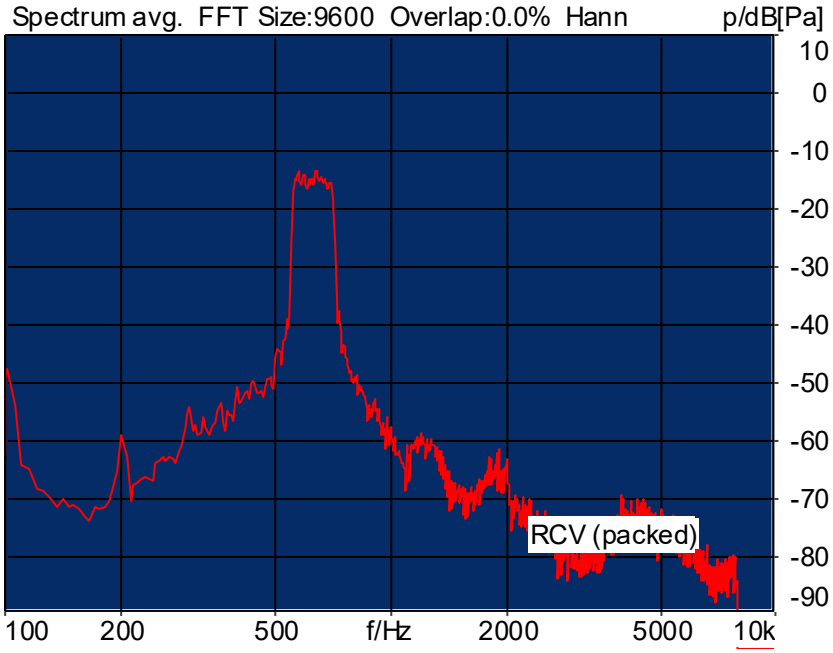
Used Setting	TIA5050

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 2N EVS-WB-24.4



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

Ok

2026/6/22 10:23 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

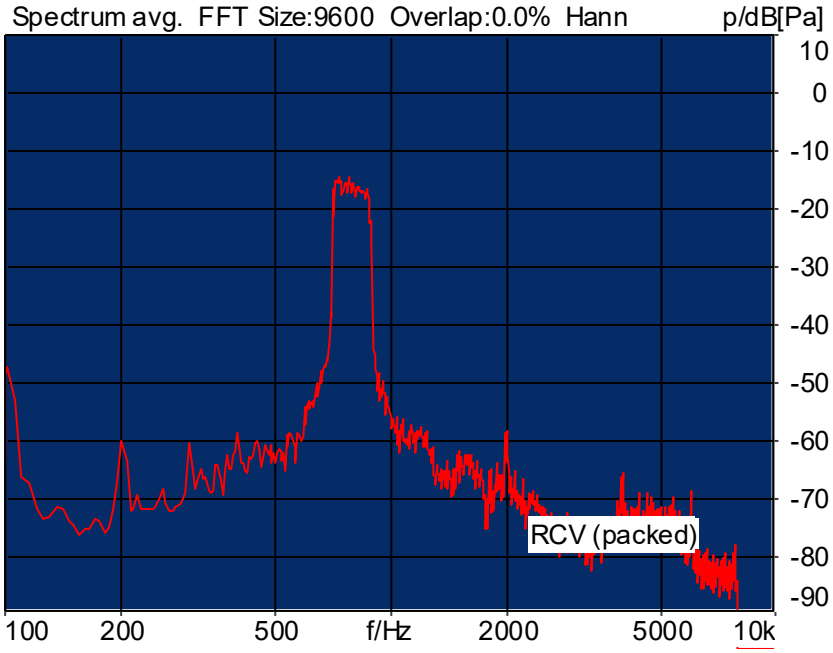
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 33.95 dB (2.01%) 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

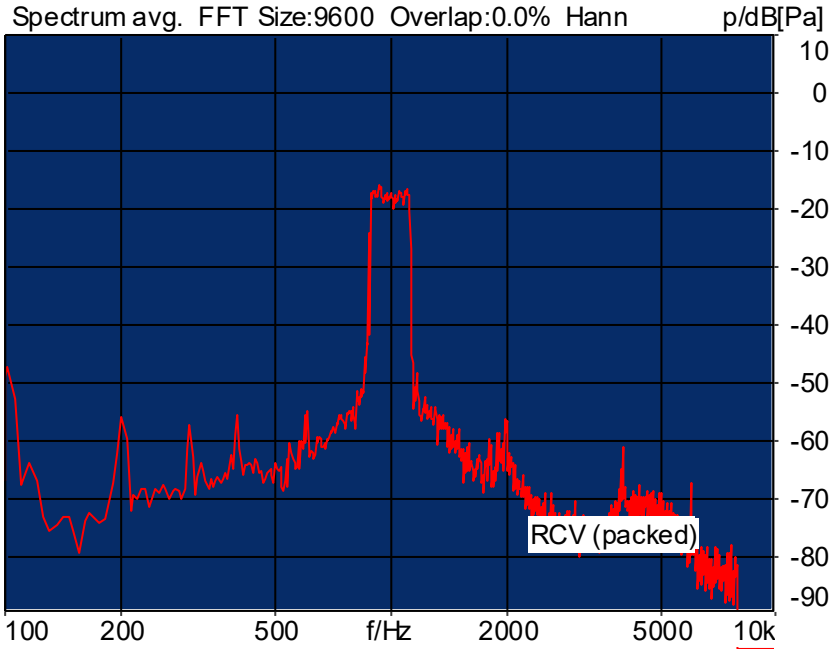
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 32.64 dB (2.33%) 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

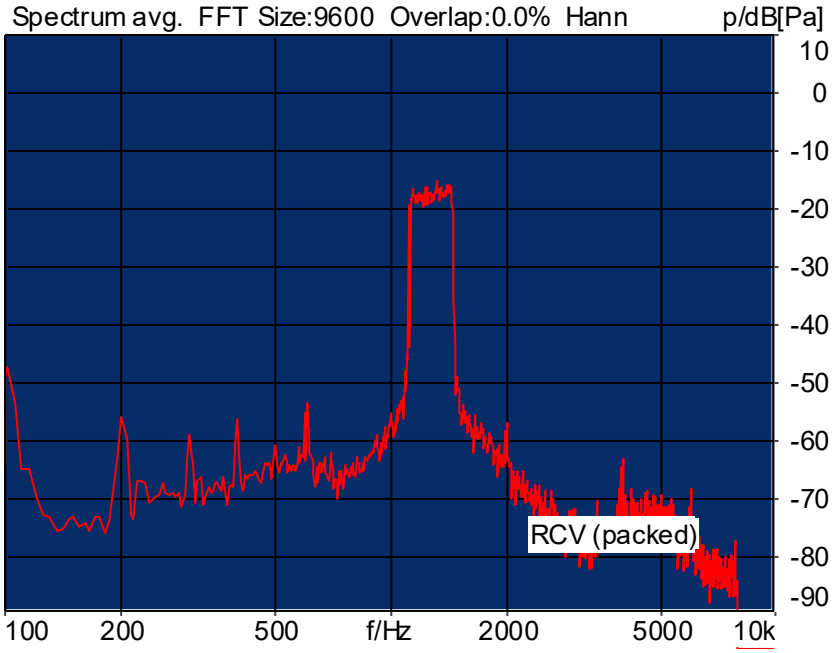
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 31.35 dB (2.71%) 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

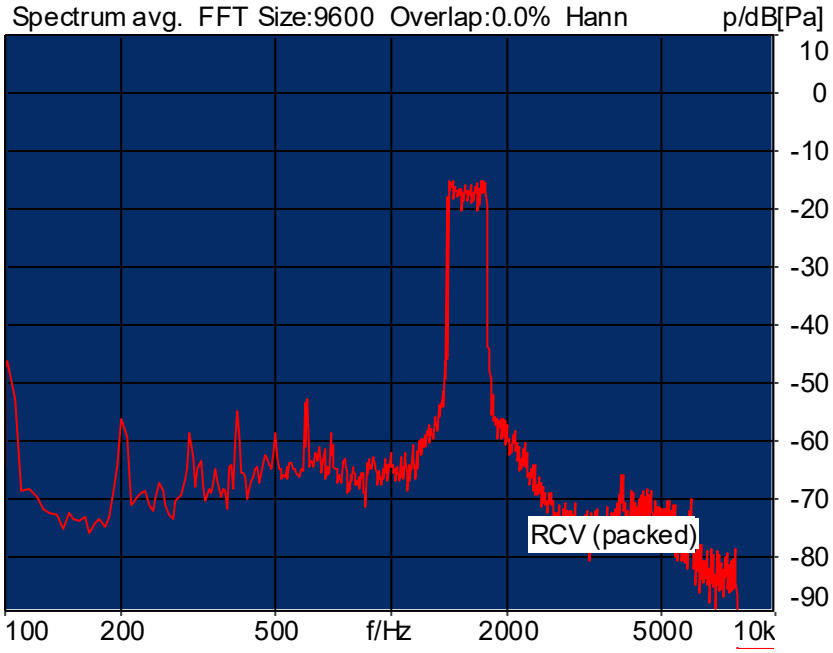
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 36.62 dB (1.48%) Ok

Ok

2026/6/22 10:25 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

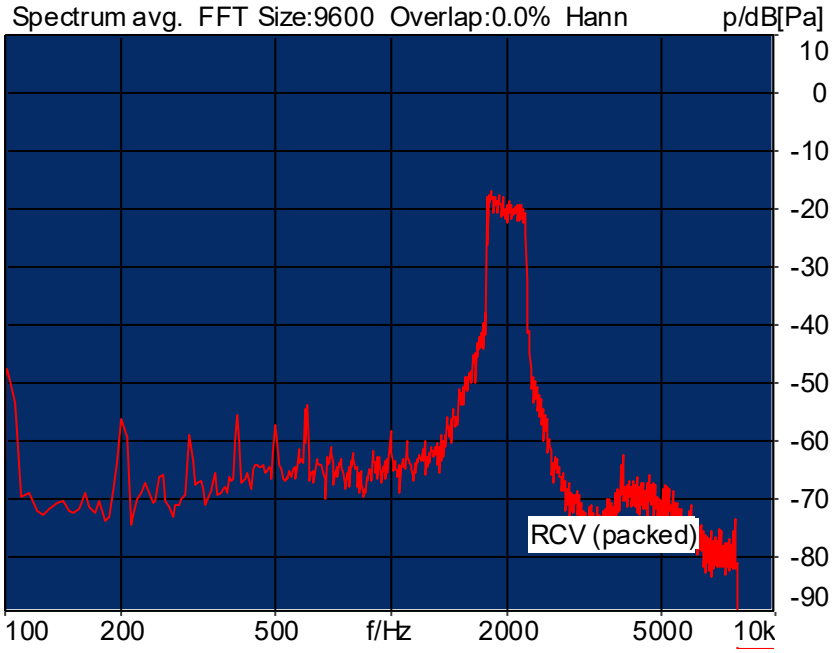
Used Setting	TIA5050

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 2N
EVS-WB-24.4



Distortion (Noise) RCV (packed): 26.19 dB (4.91%) Ok

Ok

2026/6/22 10:25 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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

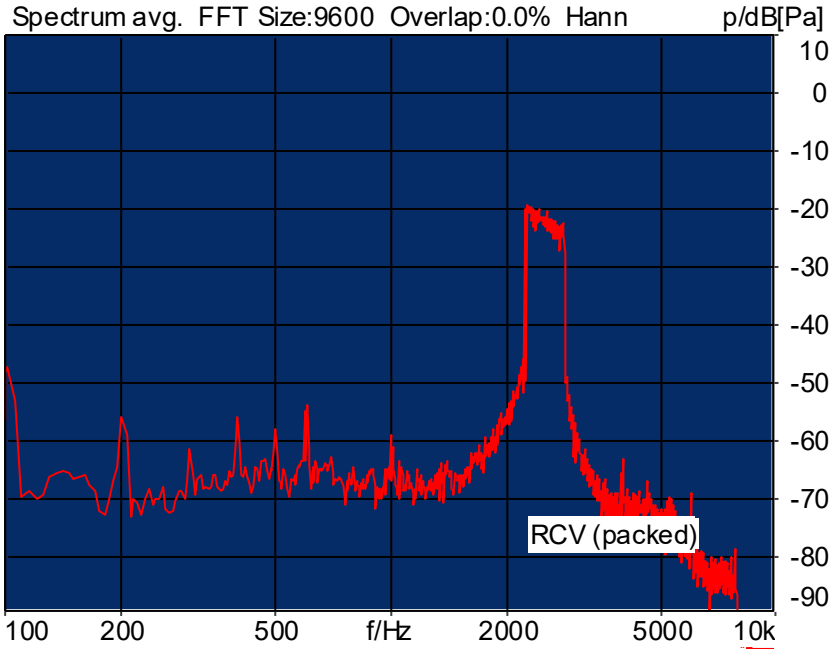
Used Setting	TIA5050

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 2N
EVS-WB-24.4



Distortion (Noise) RCV (packed): 29.69 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

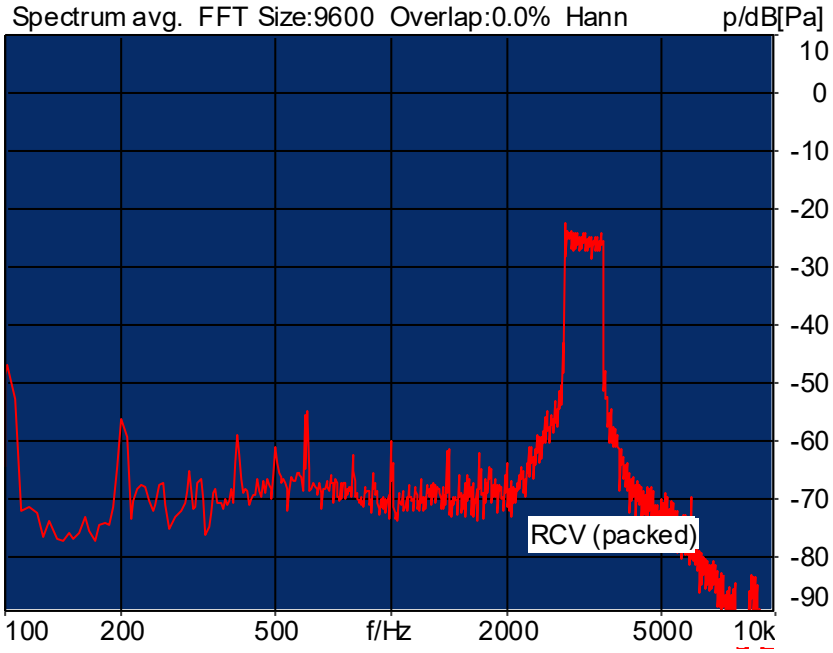
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 28.70 dB (3.67%) 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

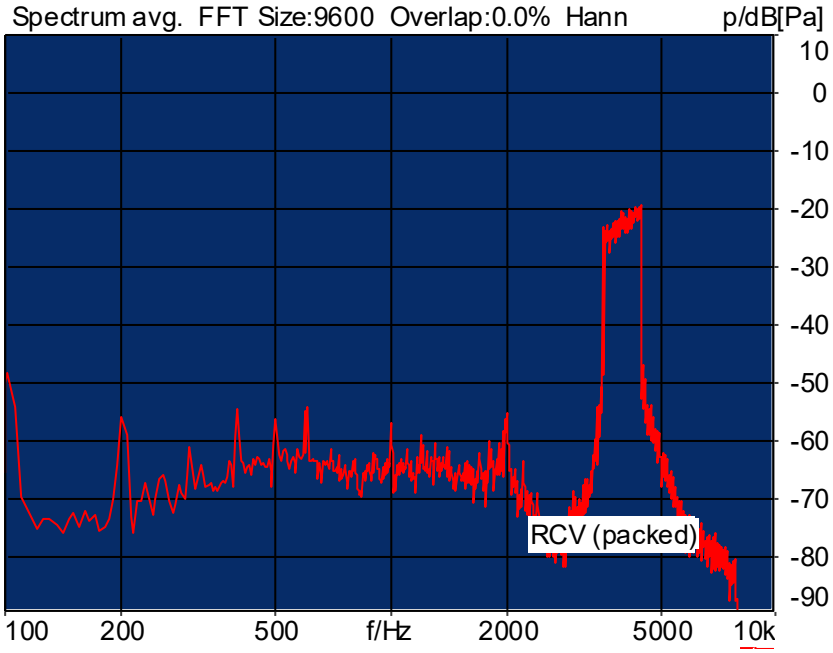
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 32.70 dB (2.32%) 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

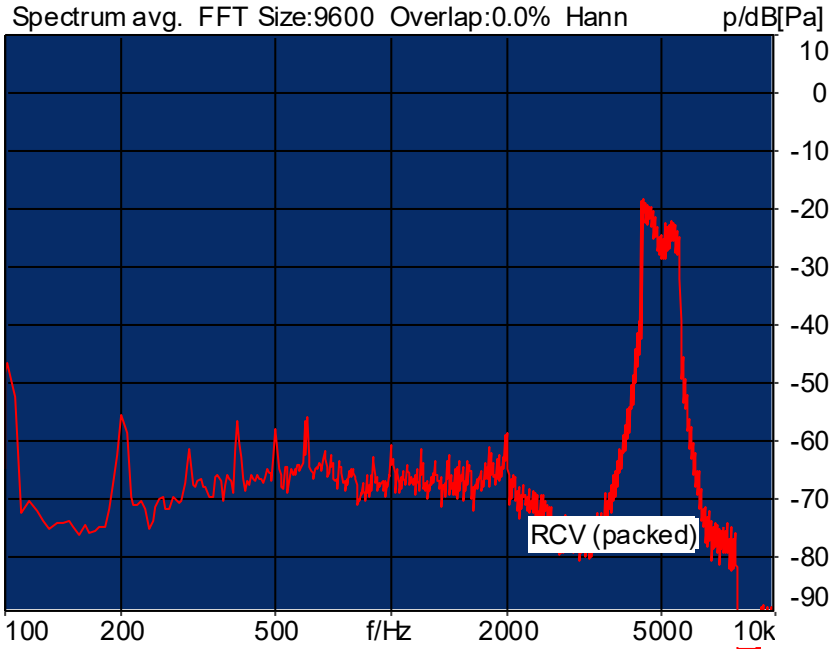
Used Setting	TIA5050

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 2N EVS-WB-24.4



Distortion (Noise) RCV (packed): 26.48 dB (4.74%) 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_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	149.5000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

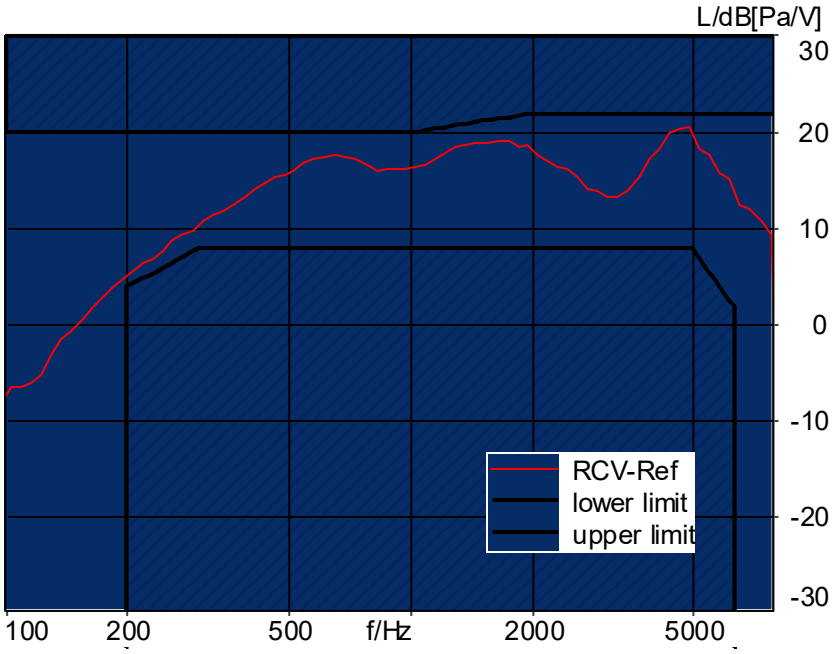
Used Setting	TIA5050

MFE VI Settings

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

5.3 Frequency Response 2N FF

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Absolute minimal distance
1.42 dB at 4870.0 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	149.5000 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(22#)

Measurement Object	Ti-CC26050303-N14

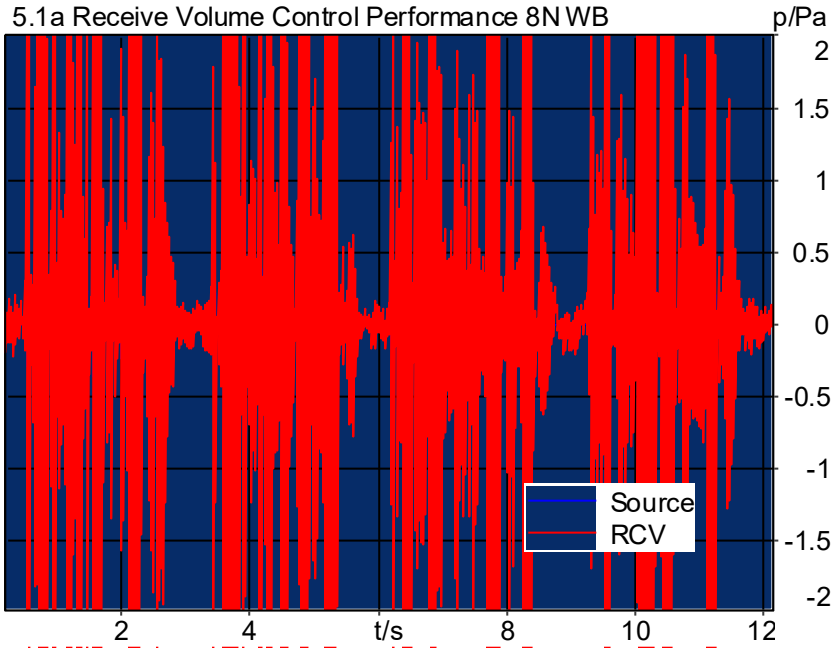
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.66	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.28	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.15	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.45	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.82	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.55	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.92	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.31	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.94	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.67	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.02	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.45	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.28	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.76	Ti-CC26050303-N14
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.19	Ti-CC26050303-N14

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.74	Ti-CC26050303-N14

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.66 dB[SPL]	82.18%	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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

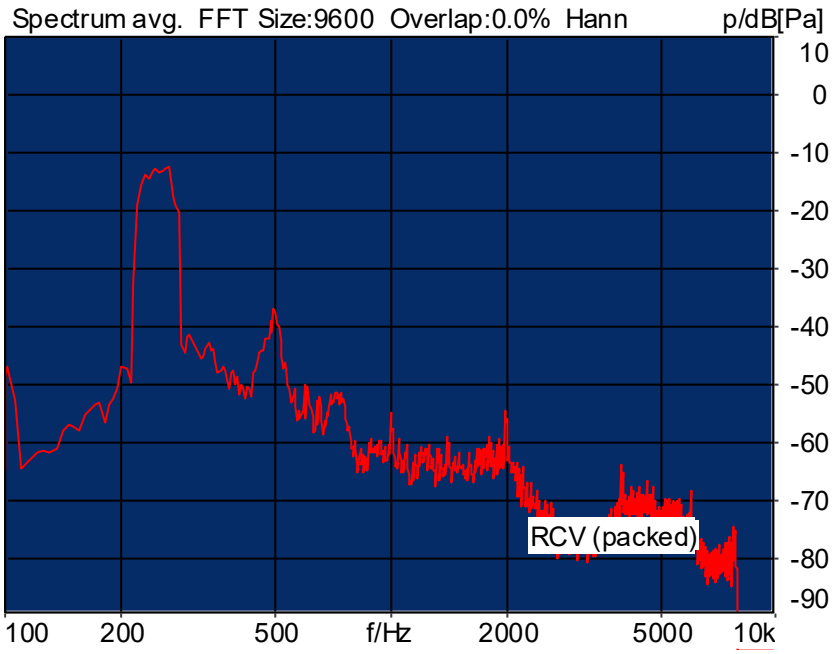
Used Setting	TIA5050

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 8N



Distortion (Noise) RCV (packed): 26.28 dB (4.85%) 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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

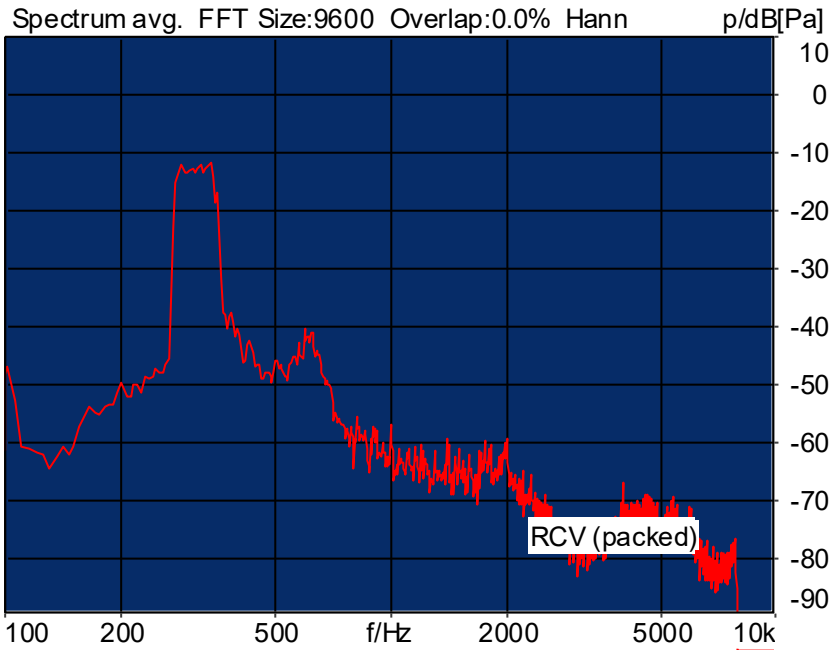
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.15 dB (3.91%) 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

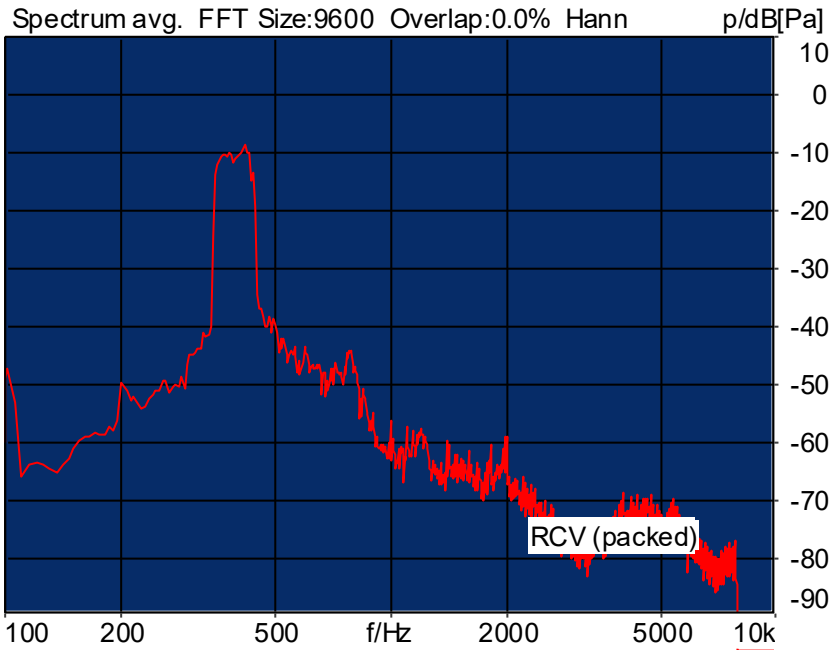
Used Setting	TIA5050

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



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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

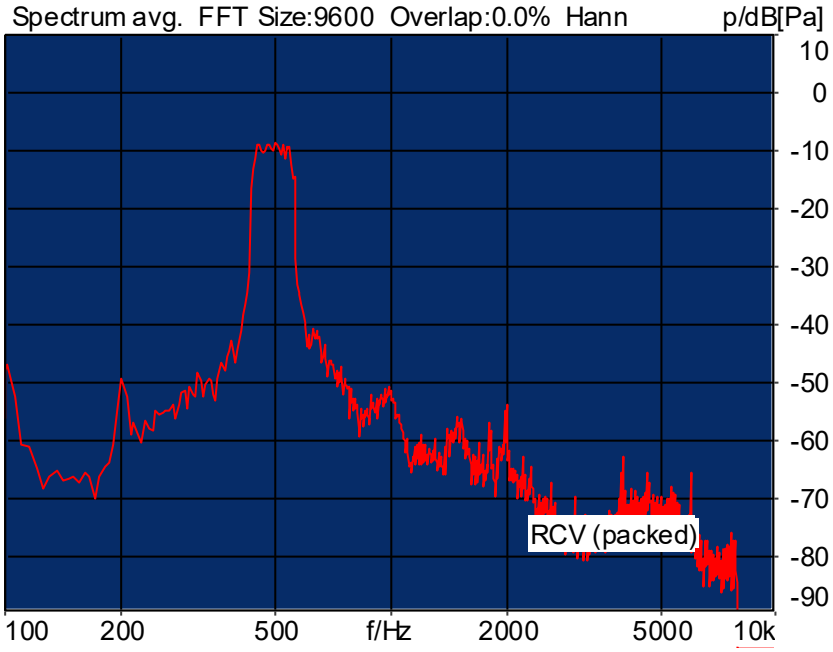
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.82 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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

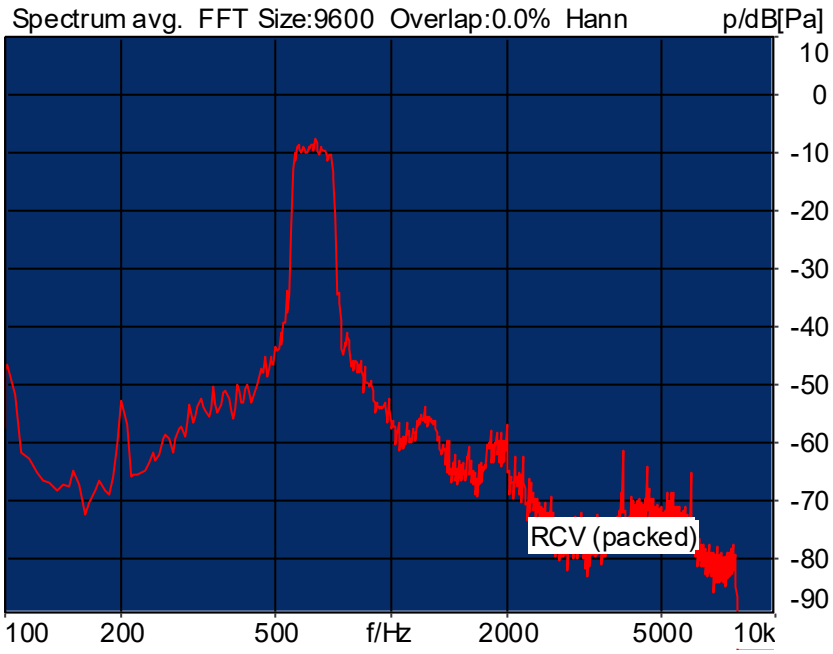
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.55 dB (1.87%) 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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

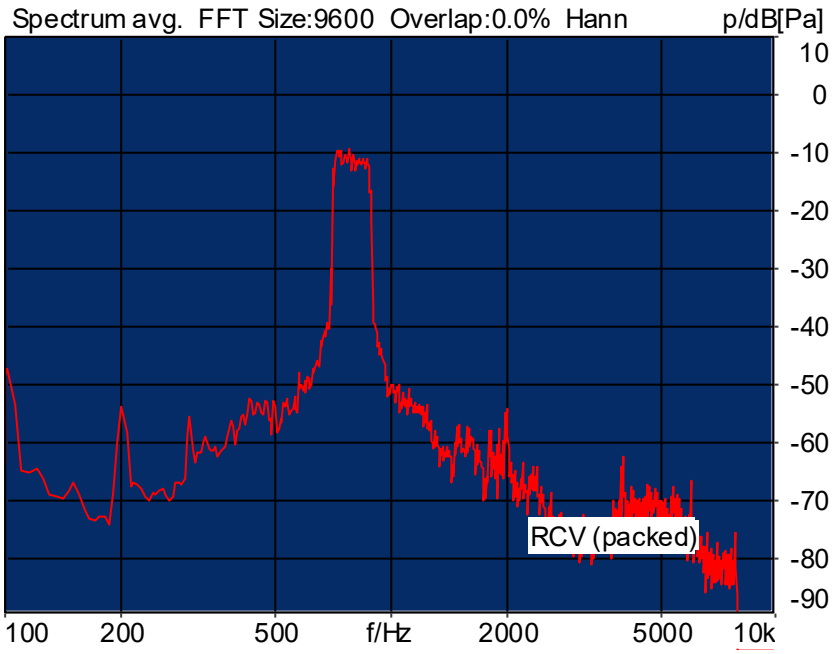
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.92 dB (2.01%) 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

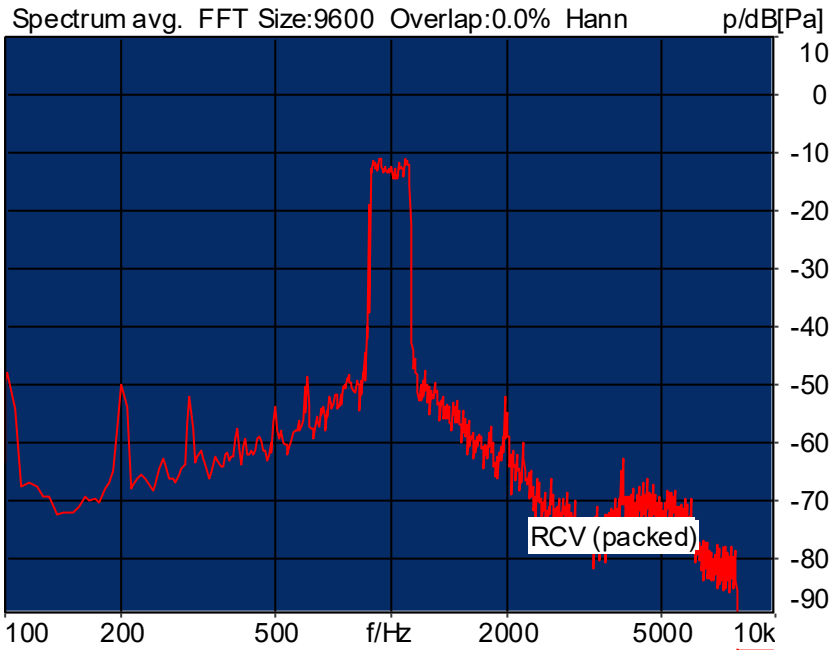
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.31 dB (1.92%) 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

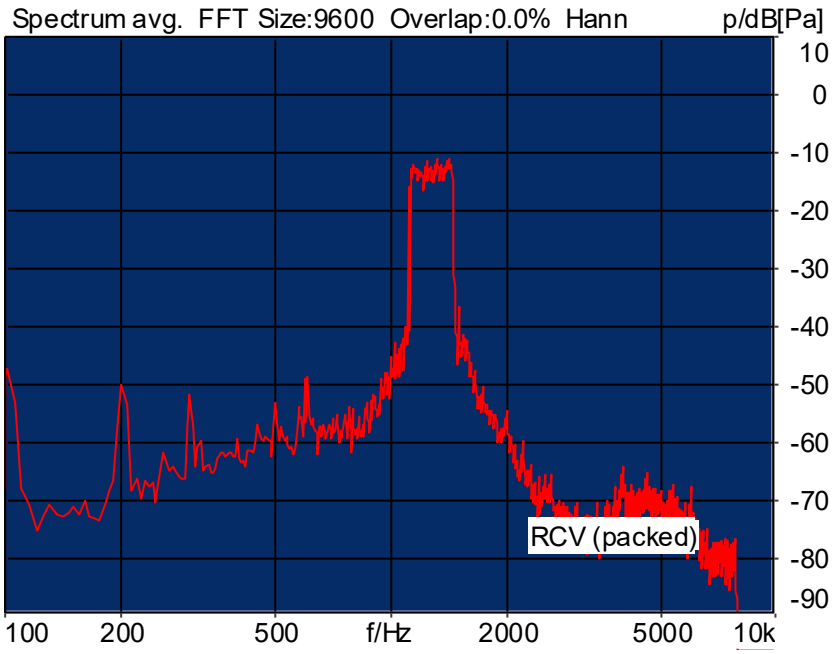
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.94 dB (4.01%) 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

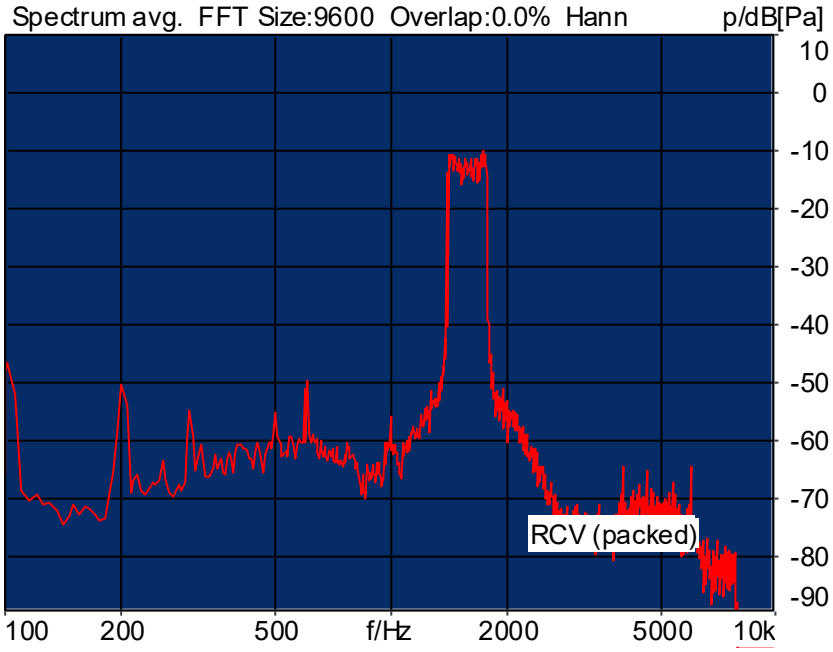
Used Setting	TIA5050

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): 37.67 dB (1.31%) Ok

Ok

2026/6/22 11:50 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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

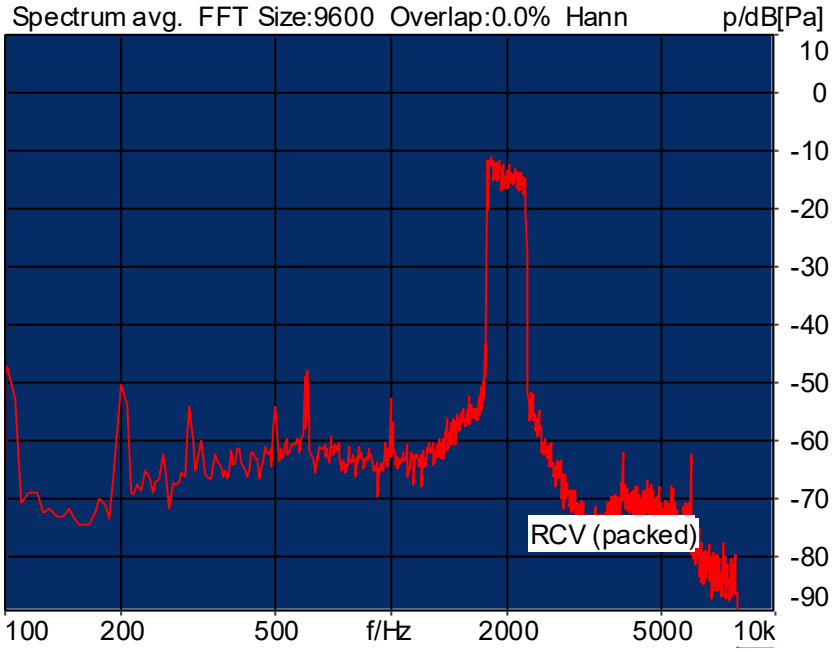
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 38.02 dB (1.26%) Ok

Ok

2026/6/22 11:51 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

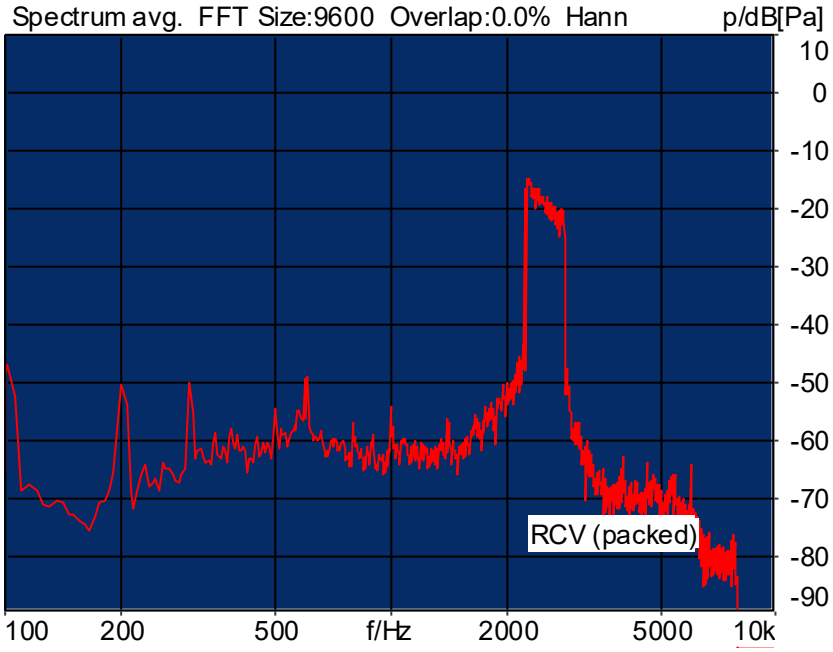
Used Setting	TIA5050

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



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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

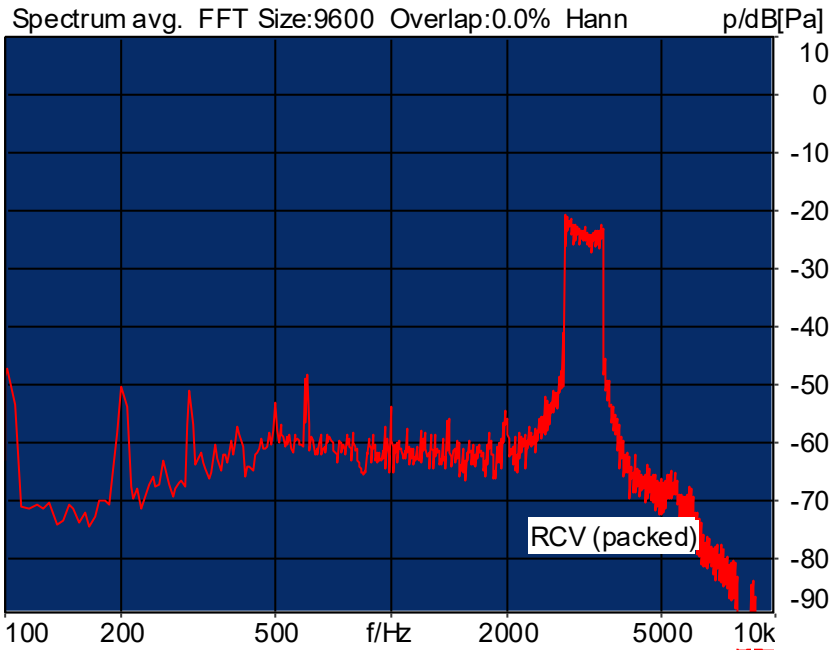
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.28 dB (4.85%) 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_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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

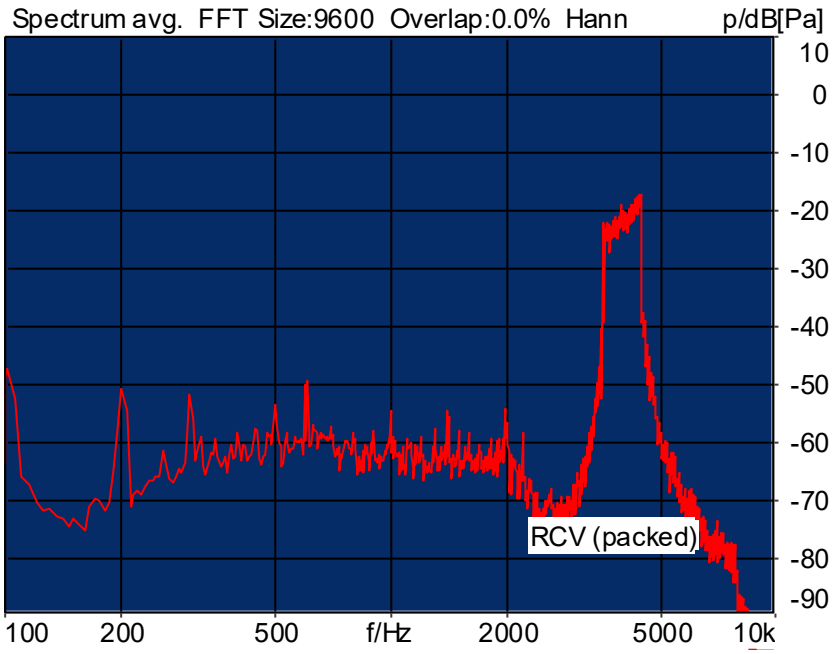
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.76 dB (4.59%) 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

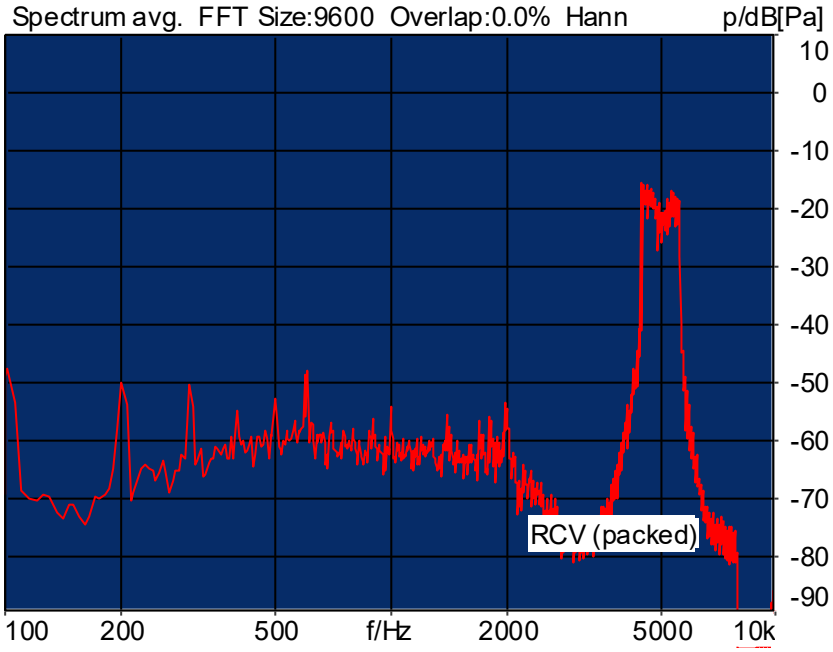
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.19 dB (3.09%) 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	161.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

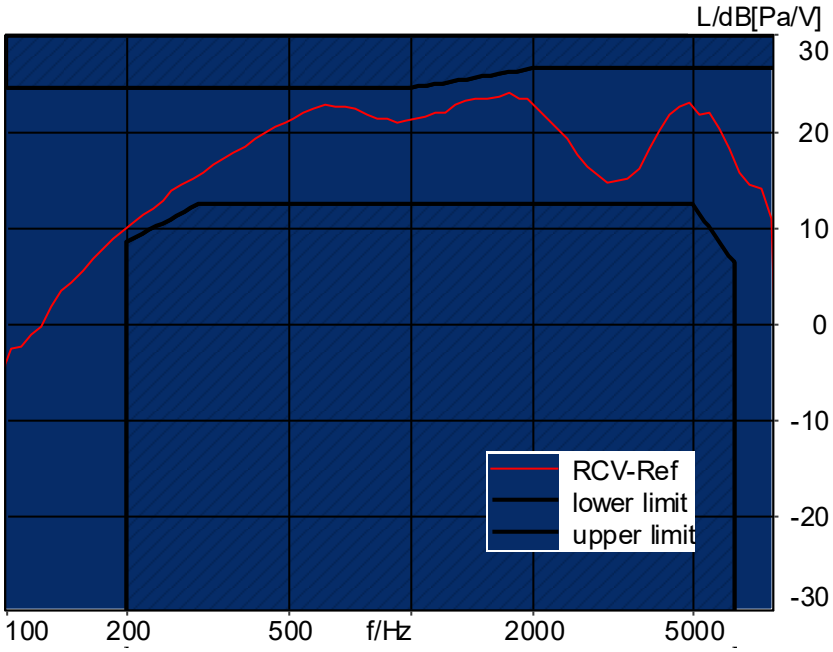
Used Setting	TIA5050

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
1.74 dB at 611.7 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	161.9000 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

Measurement Protocol(23#)

Measurement Object	Ti-CC26050303-N30

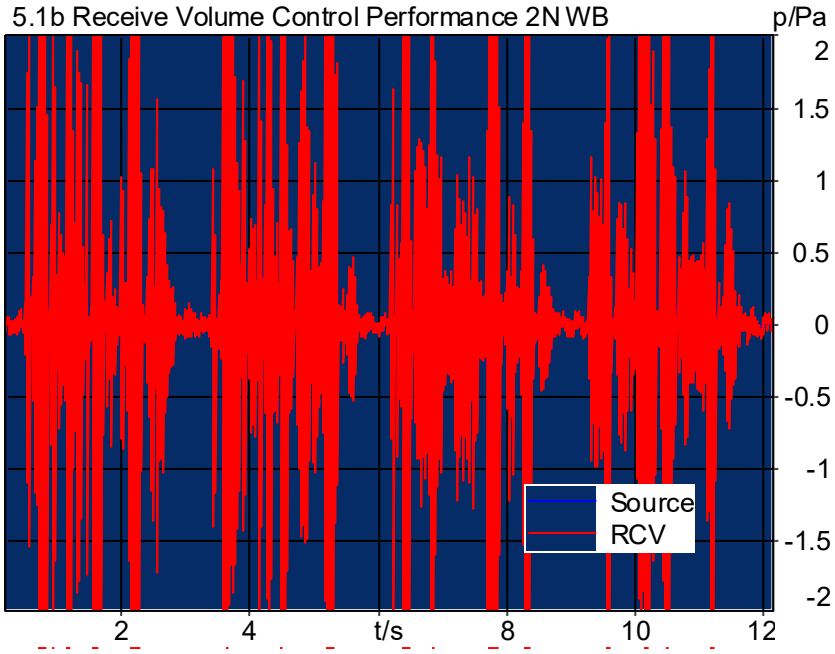
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.51	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.41	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.82	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.46	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.24	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.61	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.25	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.00	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.45	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.70	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.93	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.36	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.14	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.07	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.63	Ti-CC26050303-N30

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.51	Ti-CC26050303-N30

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	86.51 dB[SPL]	83.92%	Ok

Ok

2026/6/22 10:32 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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

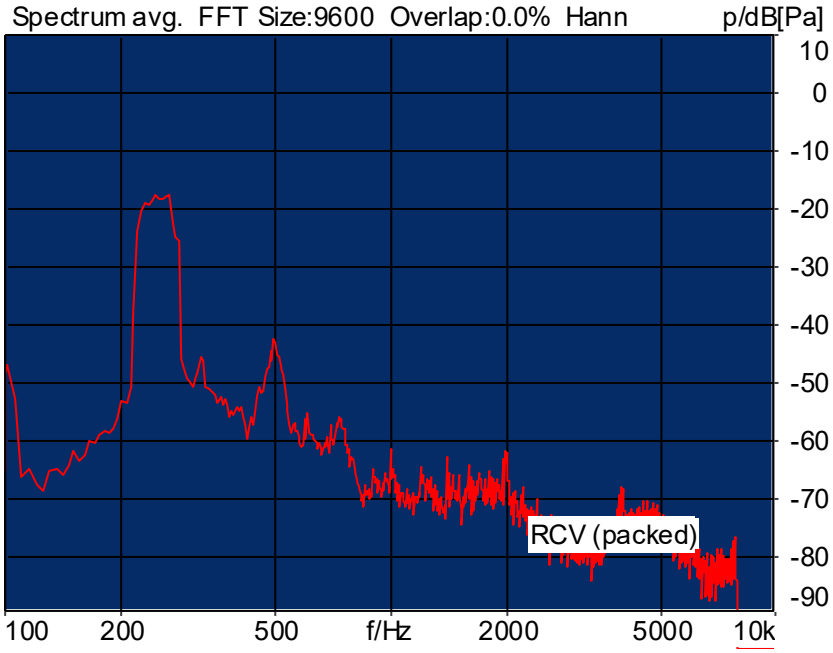
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.41 dB (4.78%) 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

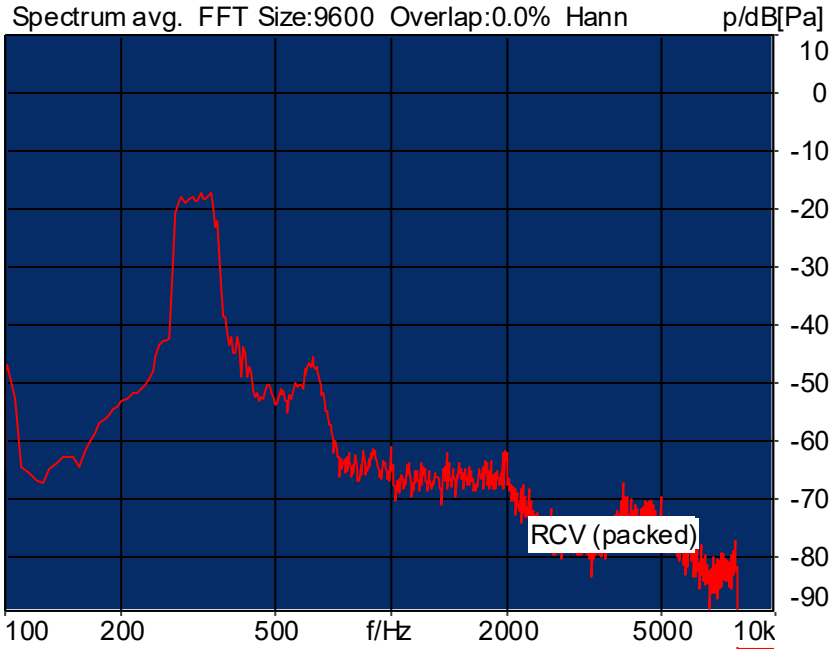
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.82 dB (4.56%) 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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

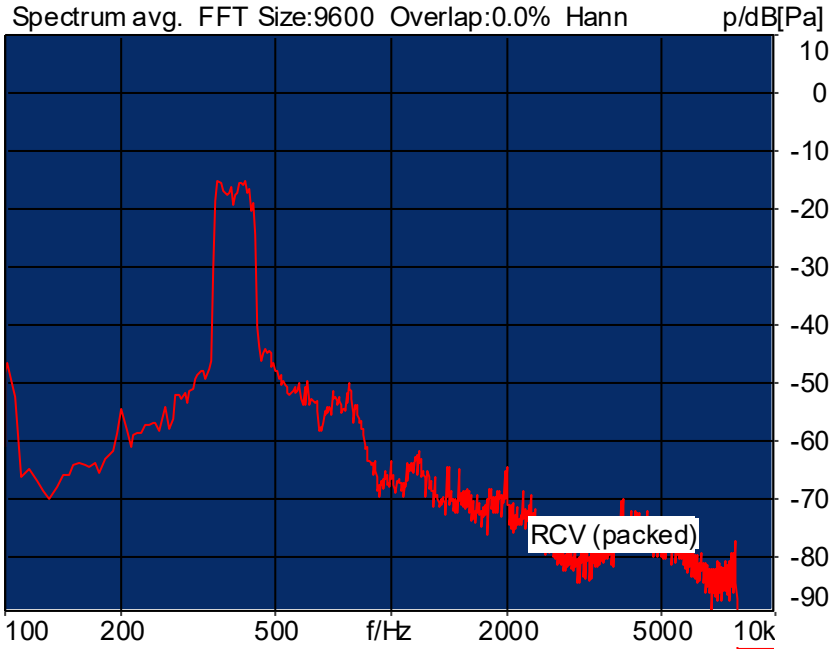
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.46 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

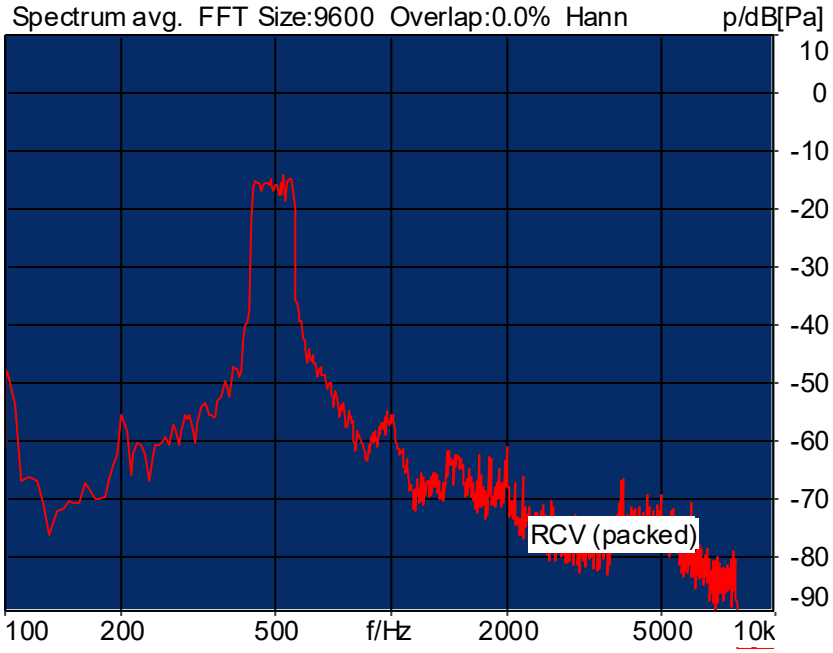
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.24 dB (2.74%) 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

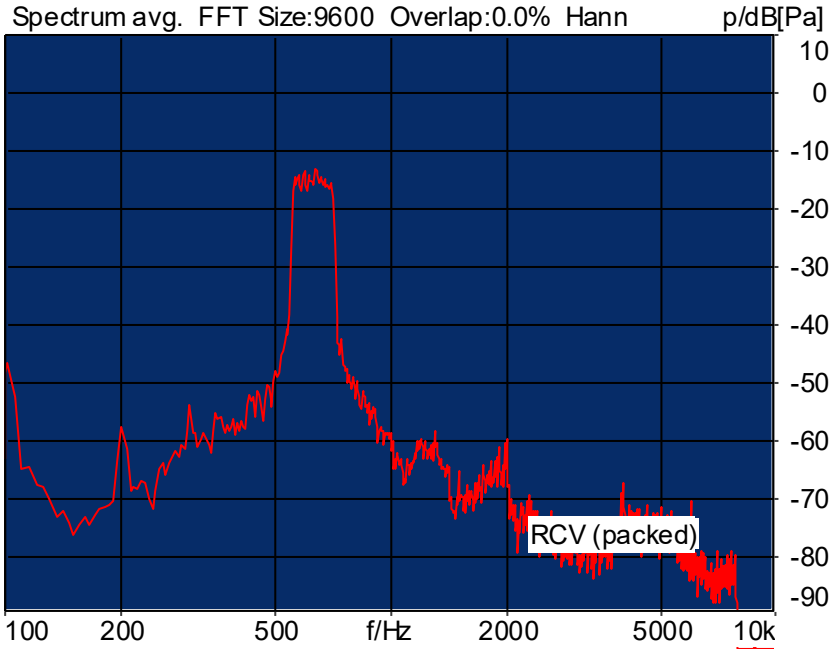
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.61 dB (2.09%) Ok

Ok

2026/6/22 10:34 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

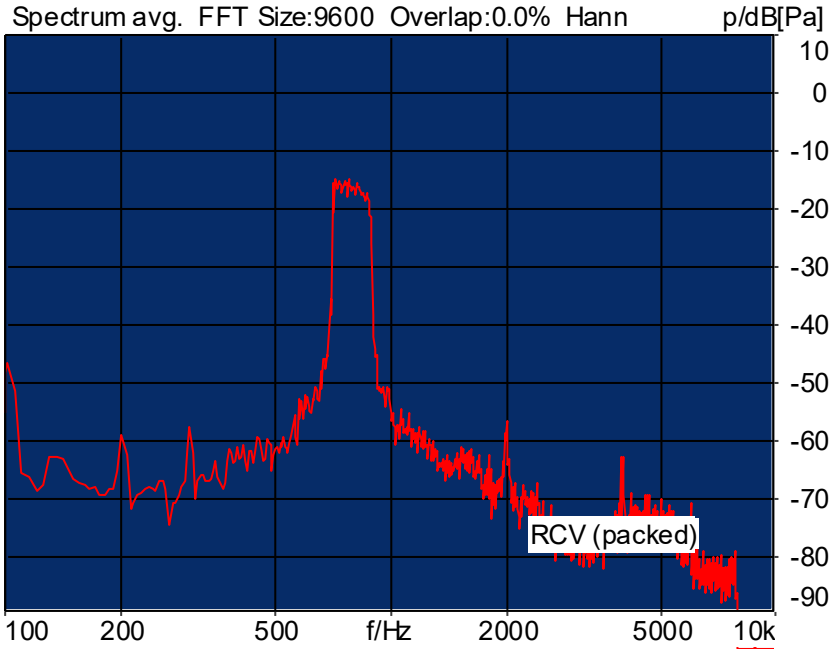
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.25 dB (2.17%) Ok

Ok

2026/6/22 10:34 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

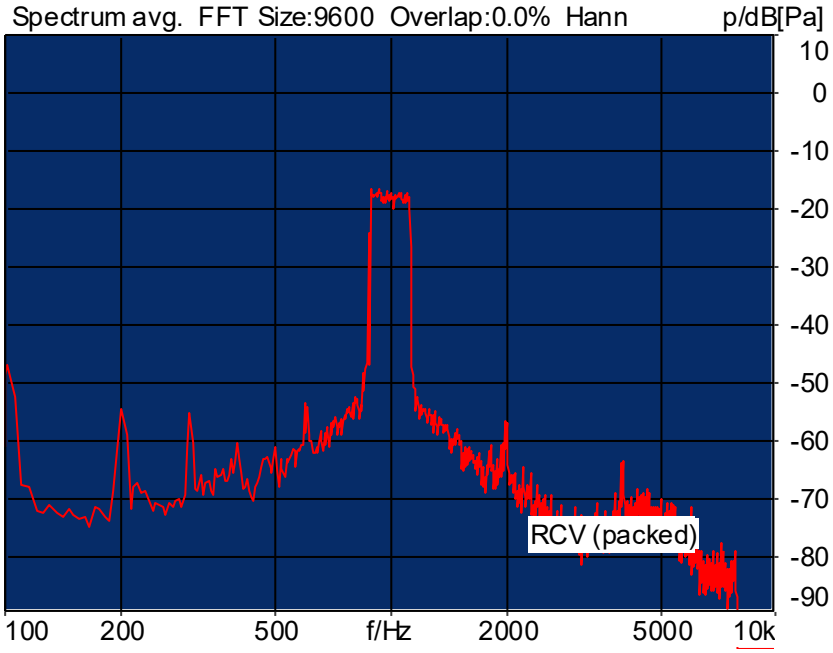
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.00 dB (2.24%) Ok

Ok

2026/6/22 10:35 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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

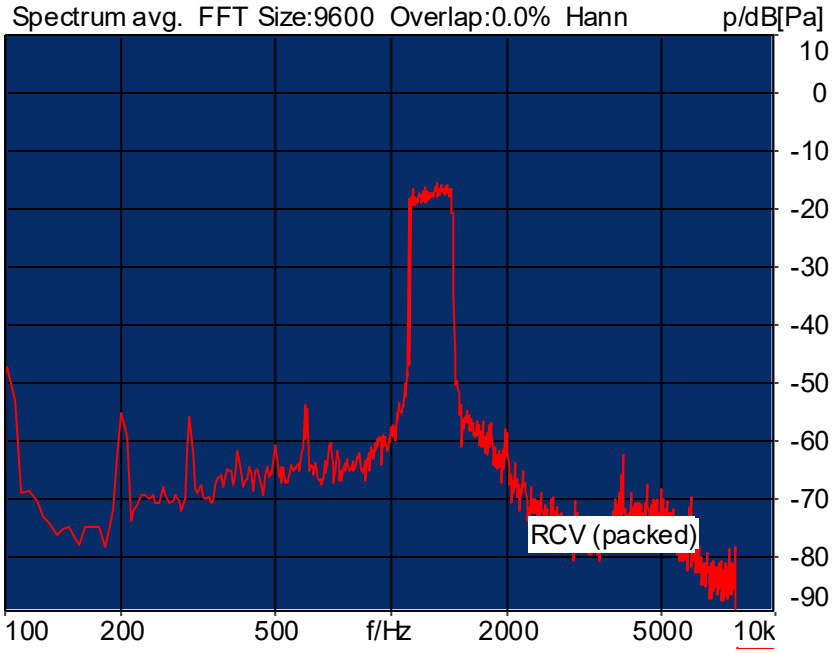
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.45 dB (2.68%) Ok

Ok

2026/6/22 10:35 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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

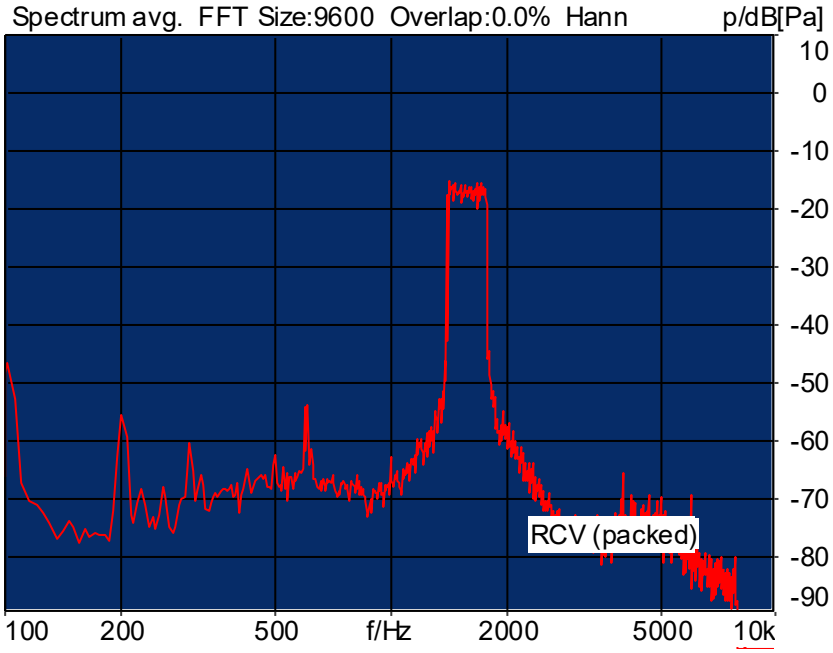
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.70 dB (1.46%) Ok

Ok

2026/6/22 10:36 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

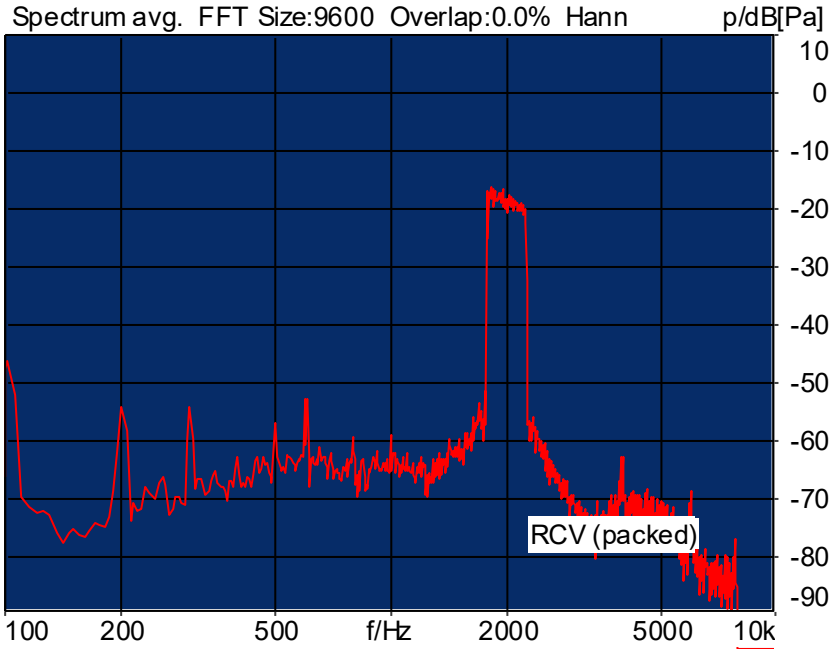
Used Setting	TIA5050

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-24.4



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

Ok

2026/6/22 10:36 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

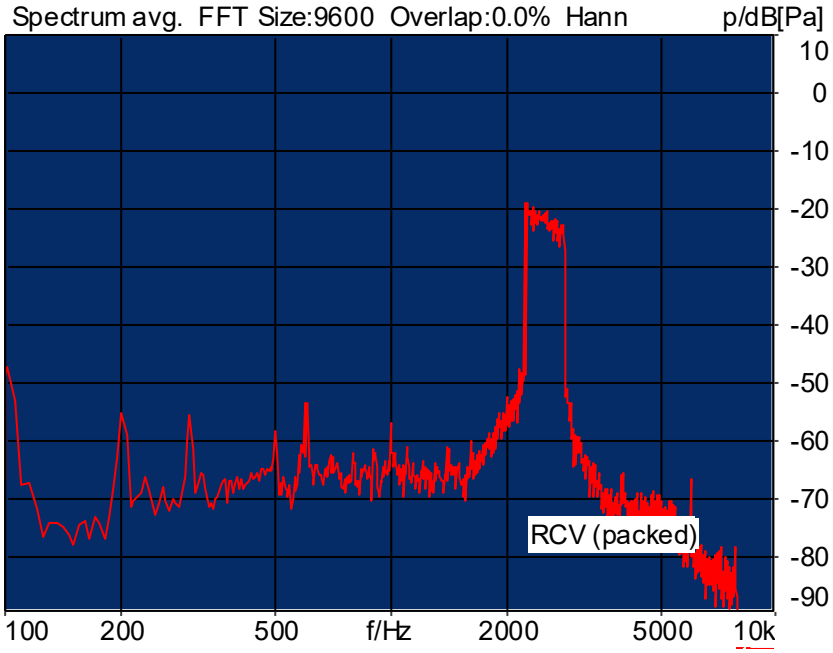
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.36 dB (3.03%) Ok

Ok

2026/6/22 10:36 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

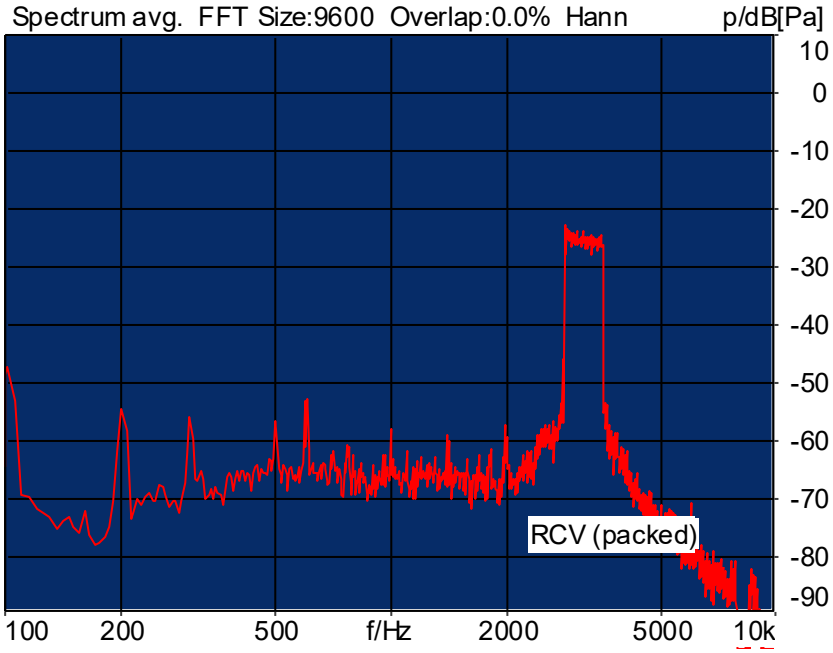
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.14 dB (3.11%) Ok

Ok

2026/6/22 10:37 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

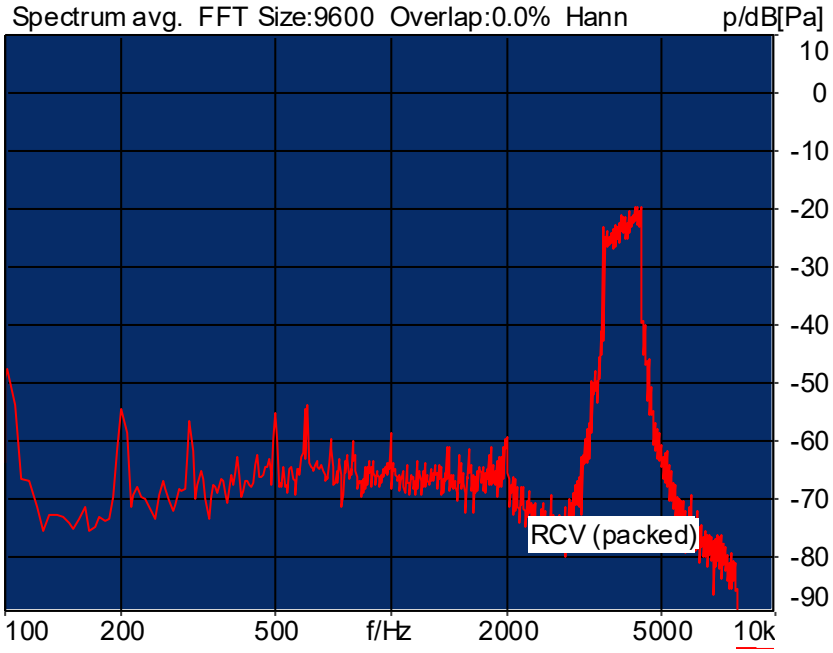
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.07 dB (4.97%) Ok

Ok

2026/6/22 10:37 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

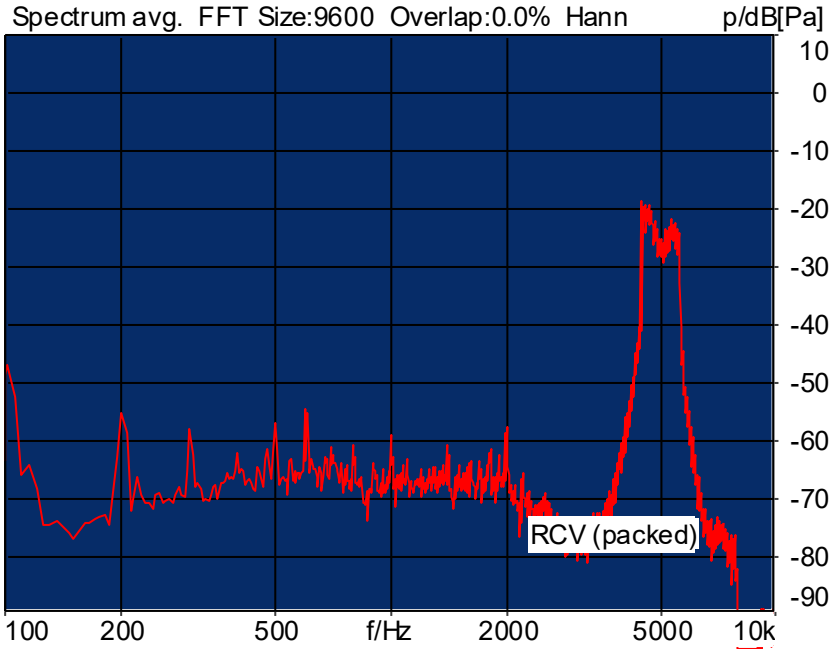
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.63 dB (4.66%) Ok

Ok

2026/6/22 10:37 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_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	152.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

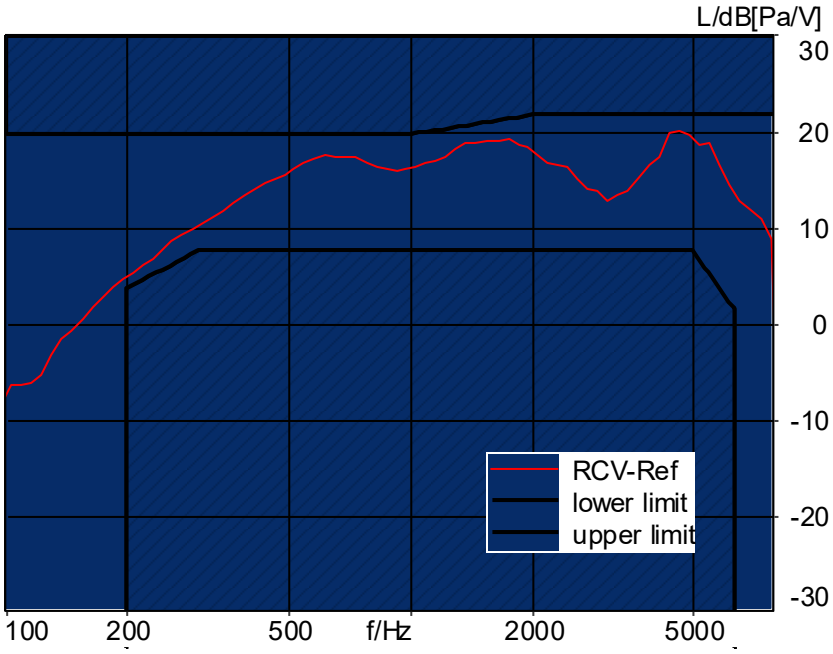
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
1.51 dB at 4620.1 Hz Ok

Ok

2026/6/22 10:38 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	152.1000 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(24#)

Measurement Object	Ti-CC26050303-N30

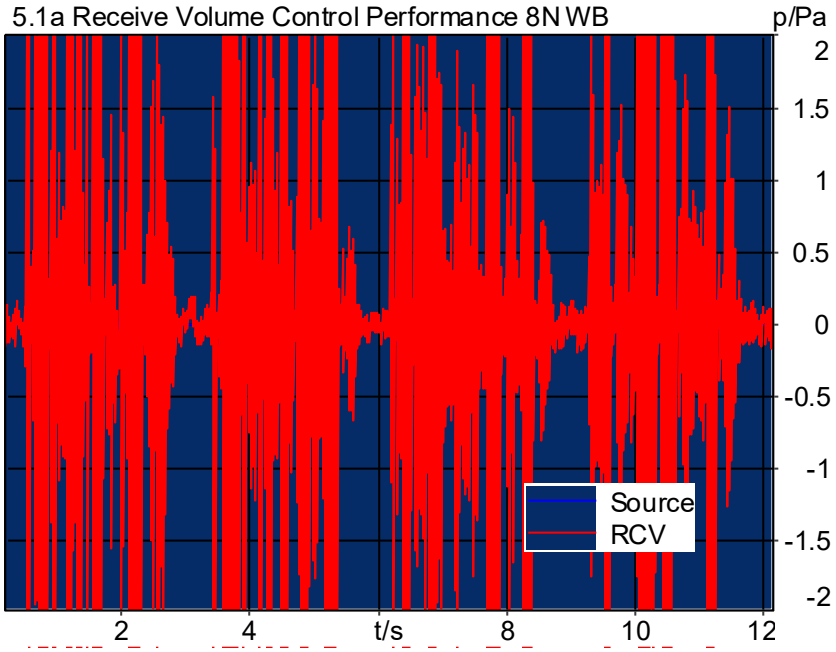
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.67	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.93	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.72	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.55	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.40	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.35	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.00	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.27	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.44	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.82	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.84	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.79	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.54	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.09	Ti-CC26050303-N30
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.03	Ti-CC26050303-N30

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.70	Ti-CC26050303-N30

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.67 dB[SPL]	82.45%	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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

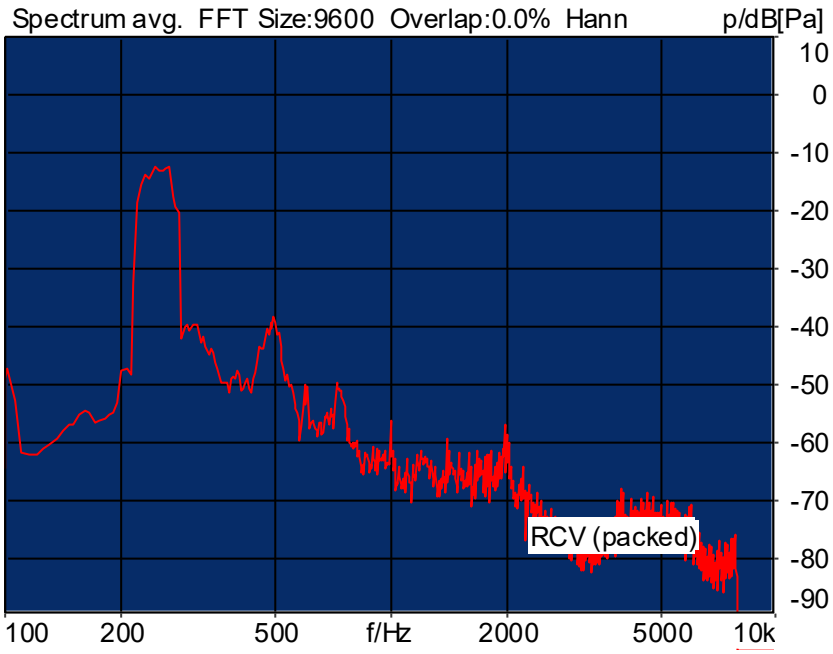
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.93 dB (4.50%) 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

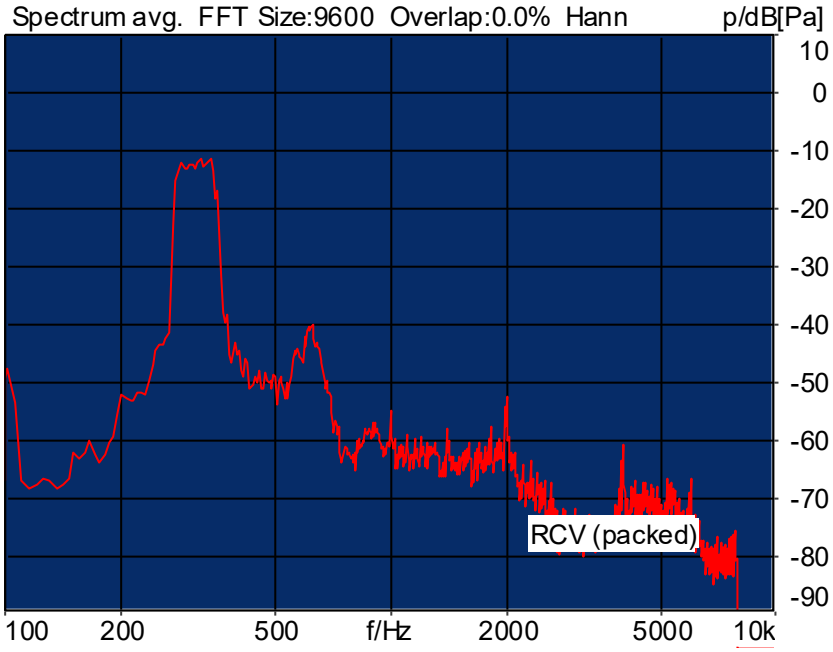
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.72 dB (3.66%) 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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

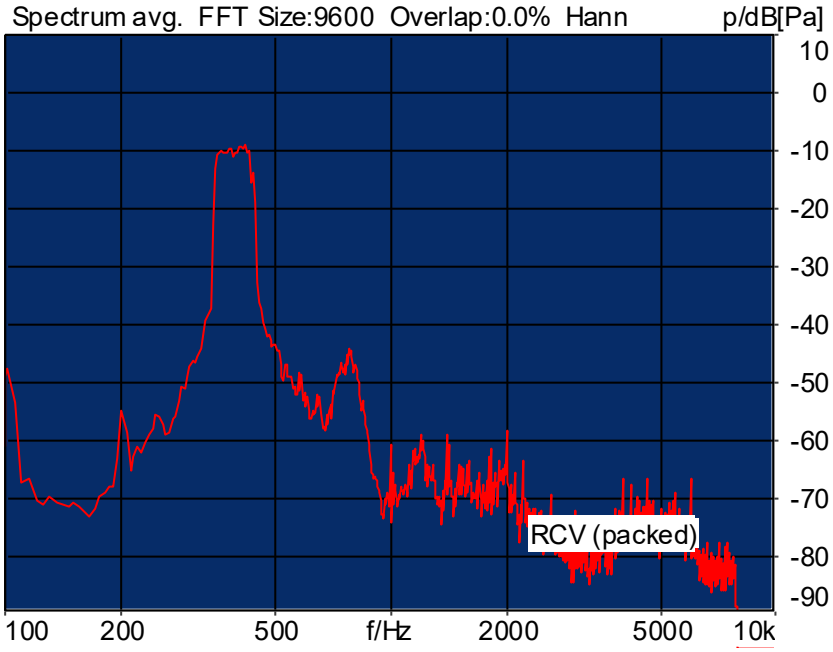
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.55 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

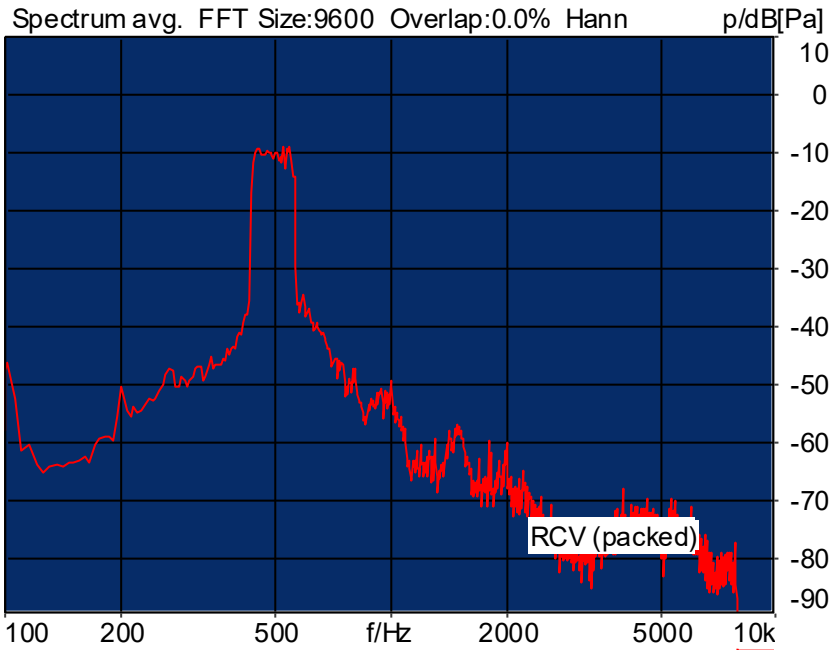
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.40 dB (3.02%) 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

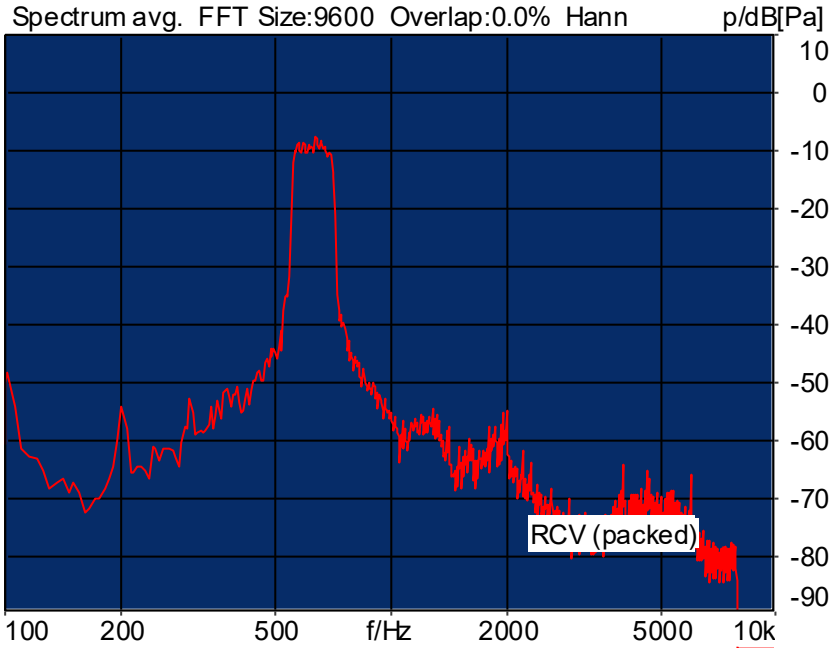
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.35 dB (1.92%) 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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

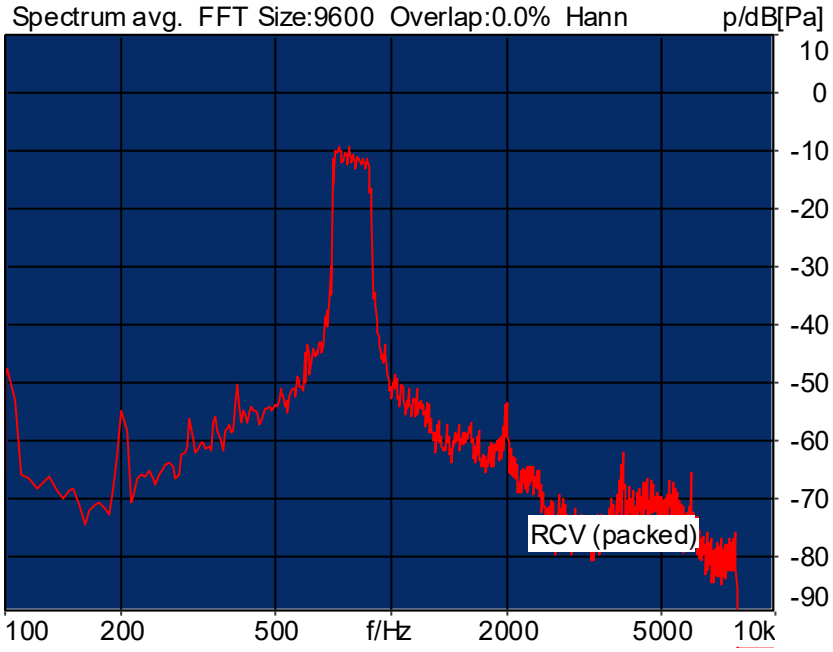
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.00 dB (2.24%) 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

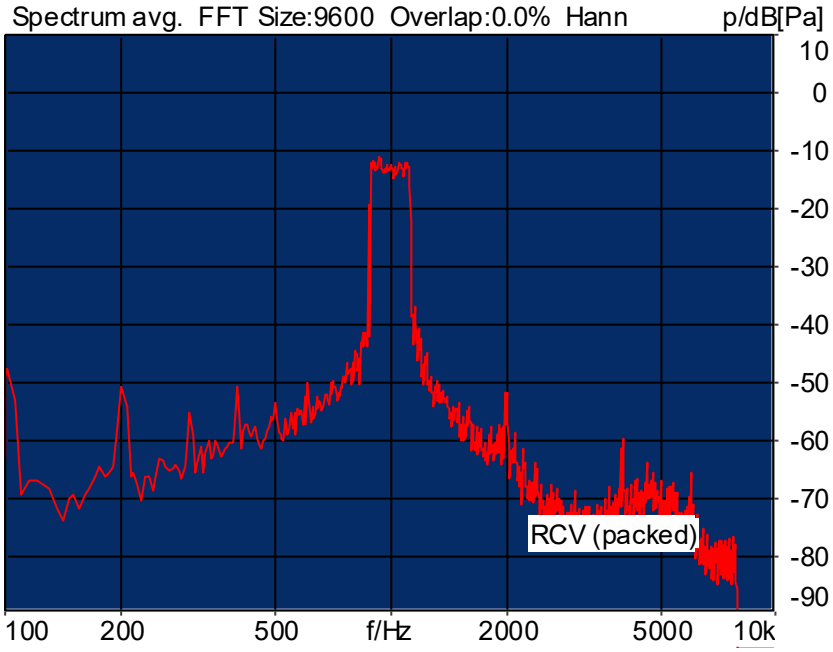
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.27 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

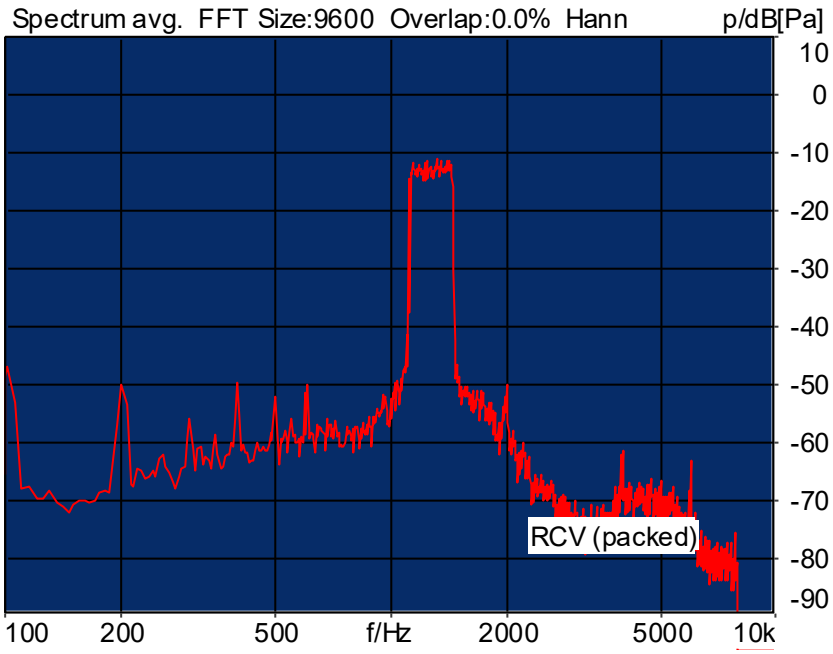
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.44 dB (2.68%) 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

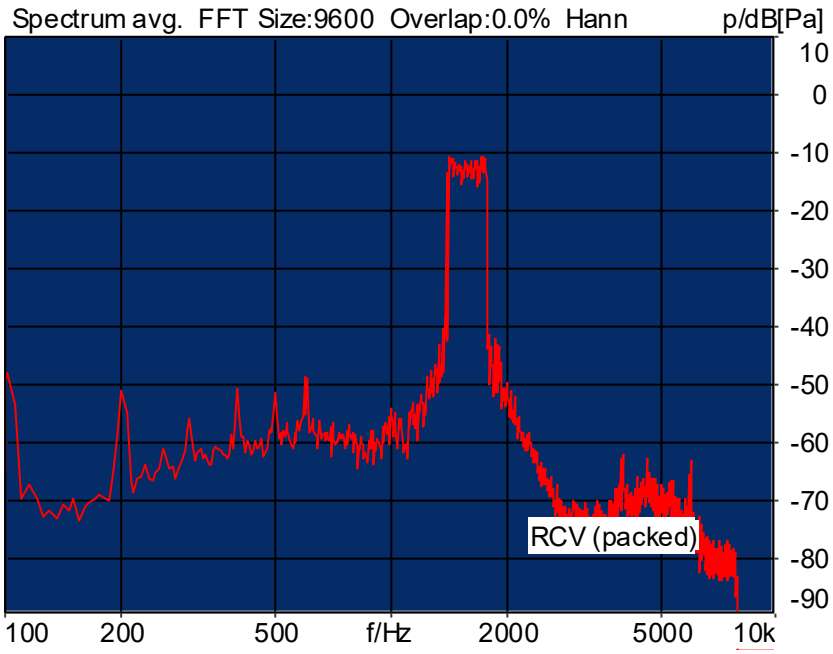
Used Setting	TIA5050

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): 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

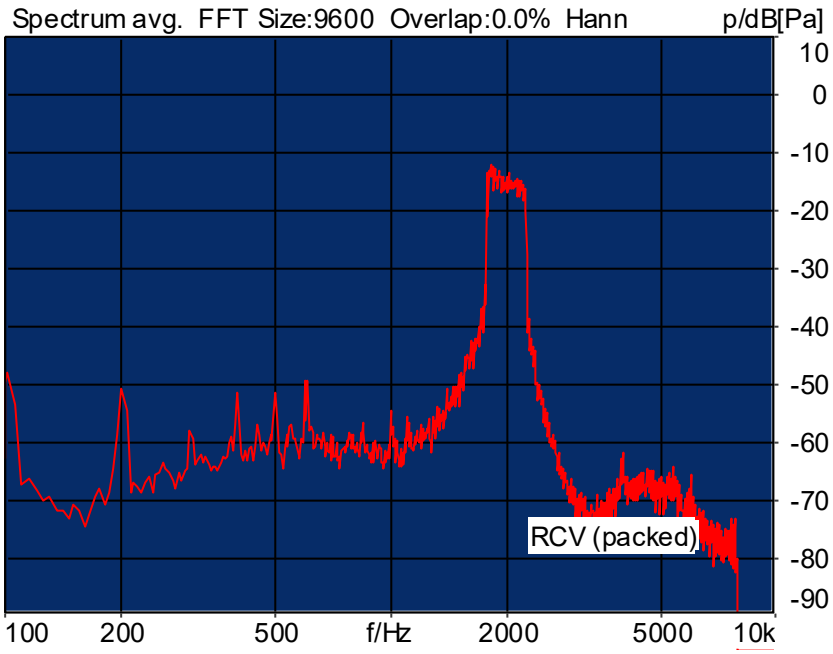
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.84 dB (4.05%) 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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

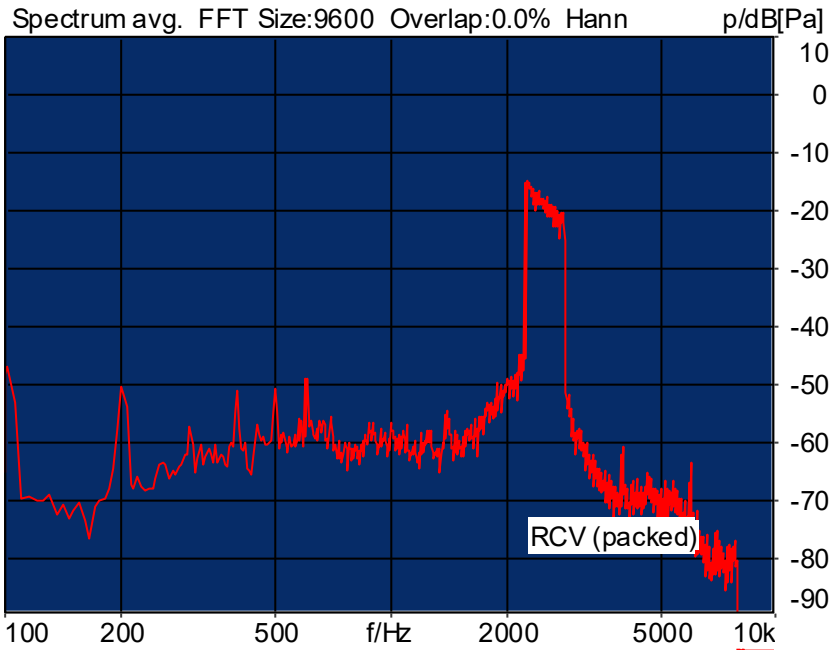
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.79 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

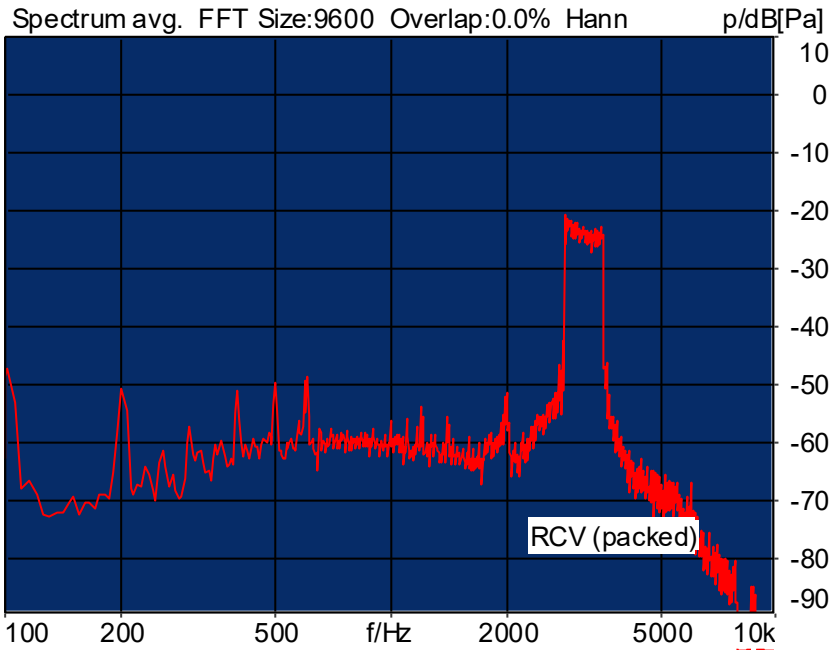
Used Setting	TIA5050

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



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

Ok

2026/6/22 11:59 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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

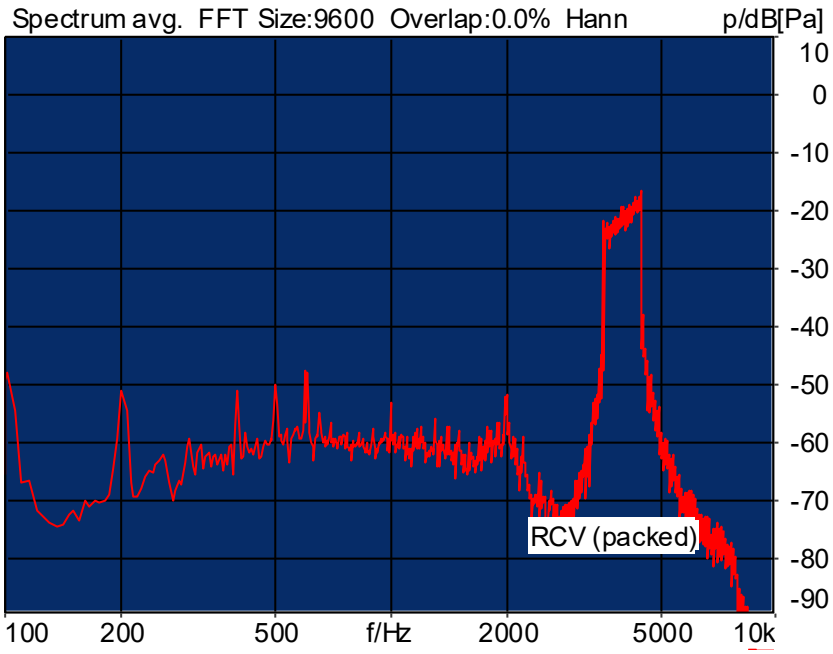
Used Setting	TIA5050

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



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

Ok

2026/6/22 11:59 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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

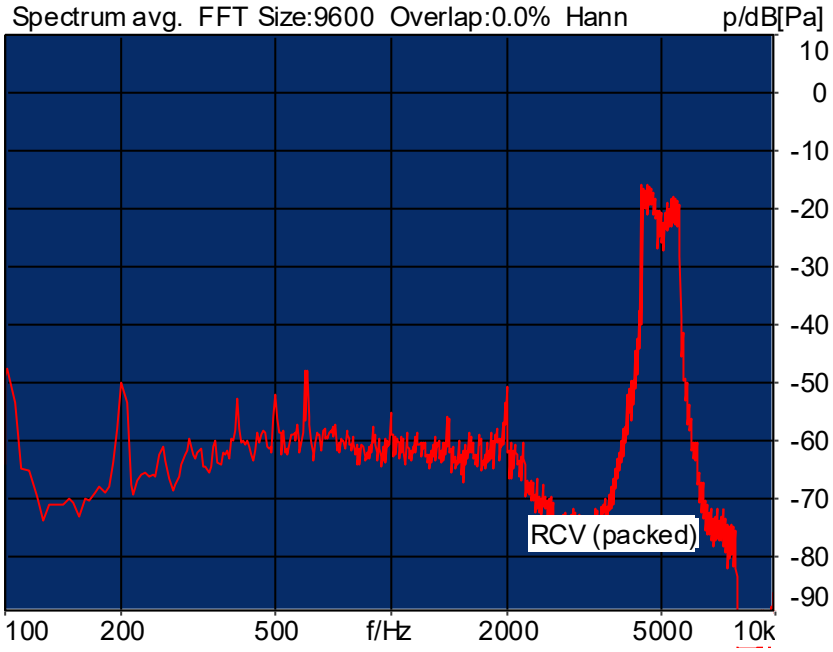
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.03 dB (3.54%) 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_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	152.0000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

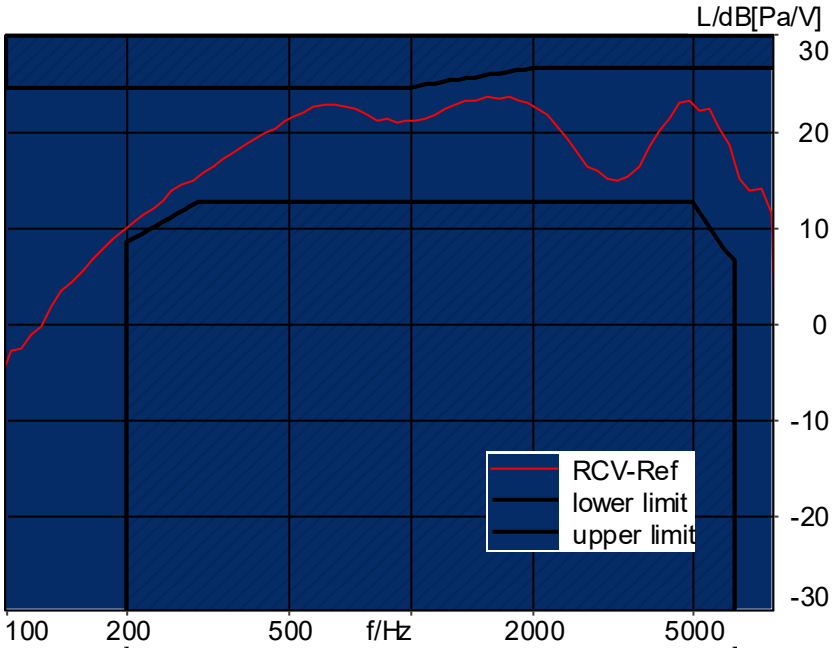
Used Setting	TIA5050

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
1.70 dB at 649.1 Hz Ok

Ok

2026/6/22 12:00 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	152.0000 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

Measurement Protocol(25#)

Measurement Object	Ti-CC26050303-N66

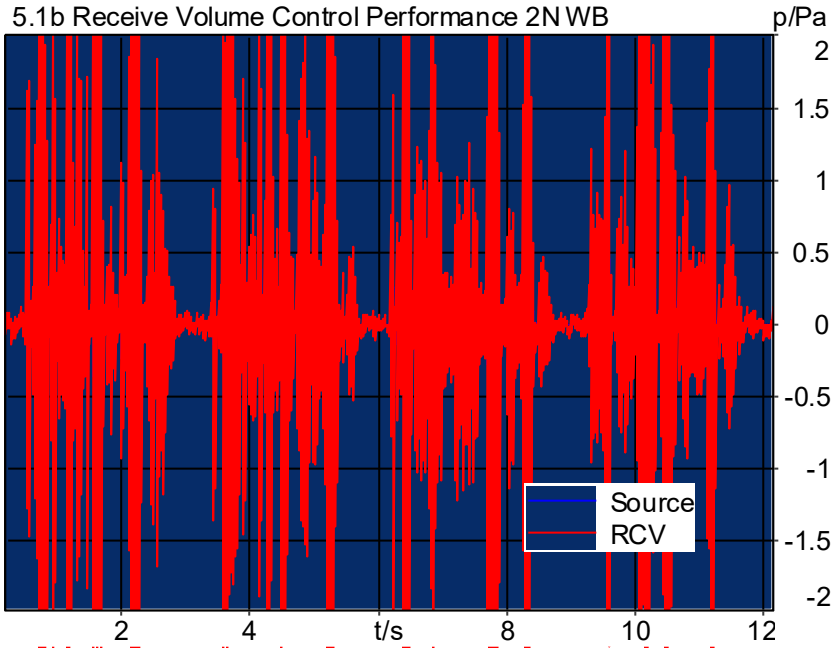
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.49	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.89	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.15	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.78	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.56	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.70	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.48	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.35	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.93	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.09	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.18	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.44	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.63	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.99	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.53	Ti-CC26050303-N66

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.57	Ti-CC26050303-N66

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	86.49 dB[SPL]	83.85%	Ok

Ok

2026/6/22 10:41 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

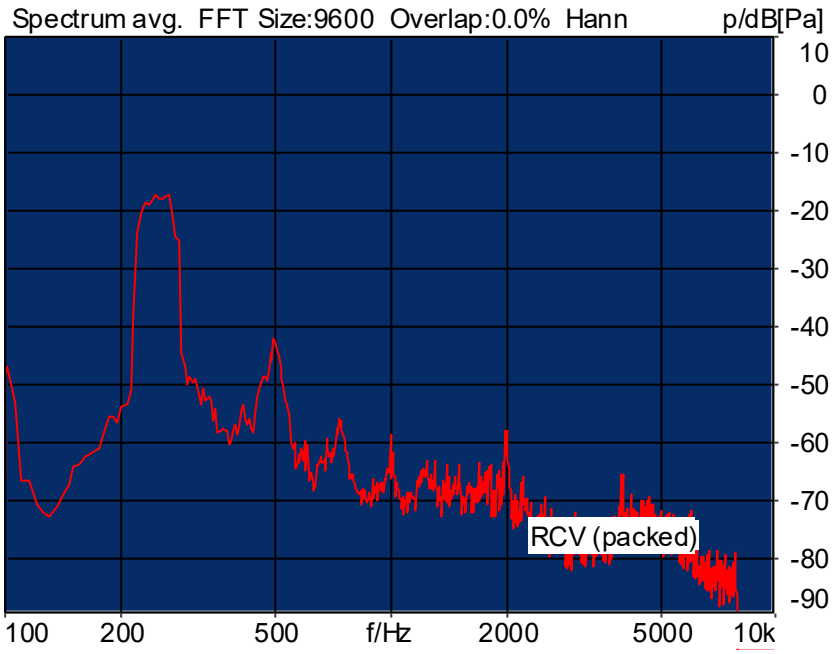
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.89 dB (4.52%) 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

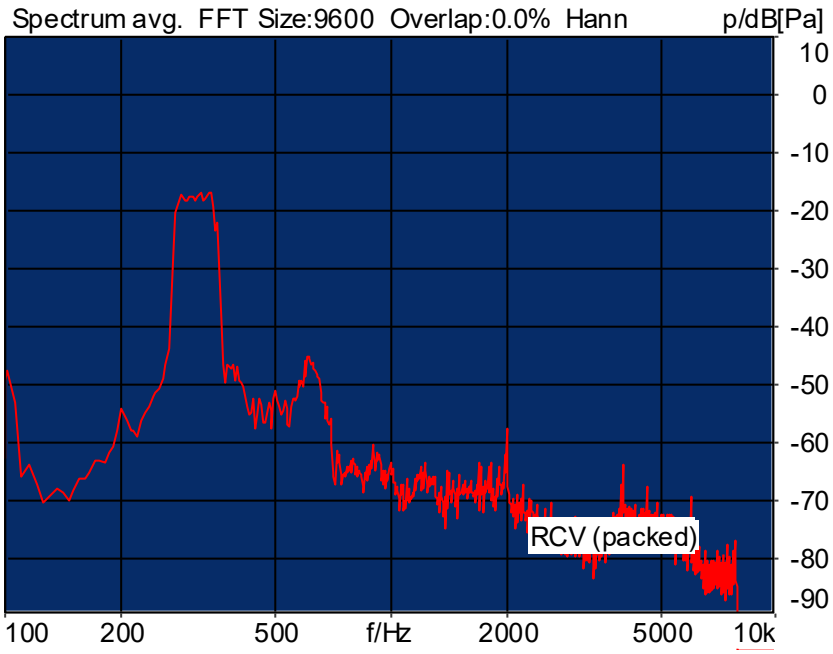
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.15 dB (3.91%) 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

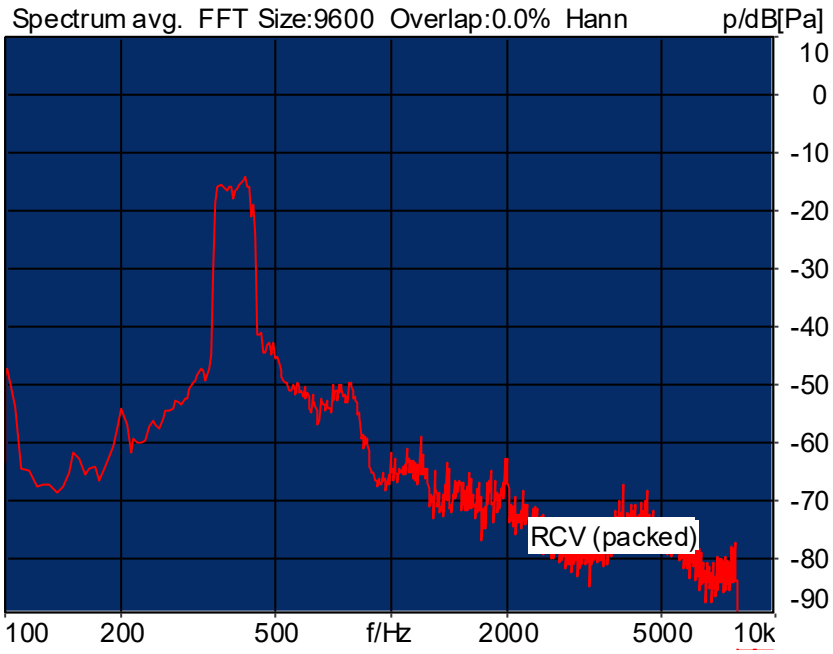
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.78 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

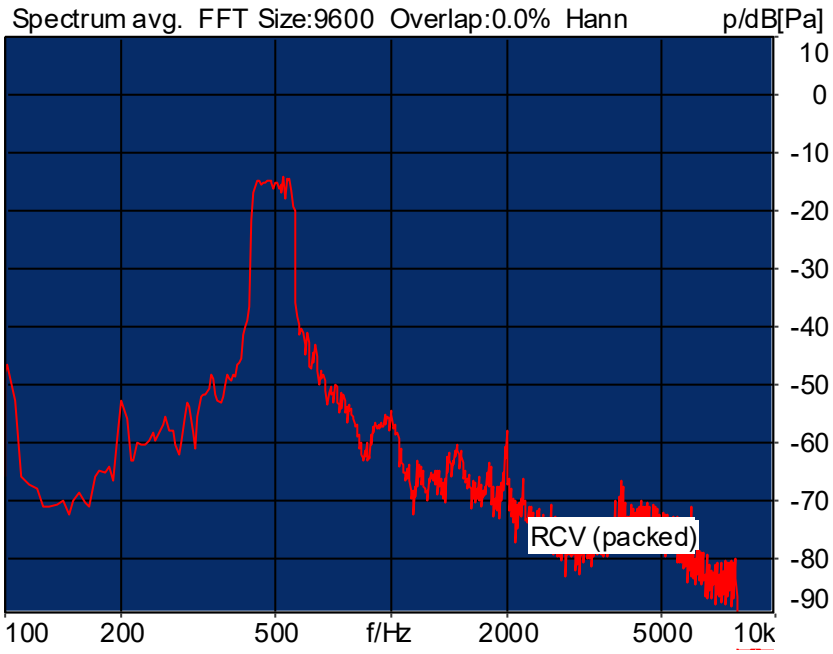
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.56 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

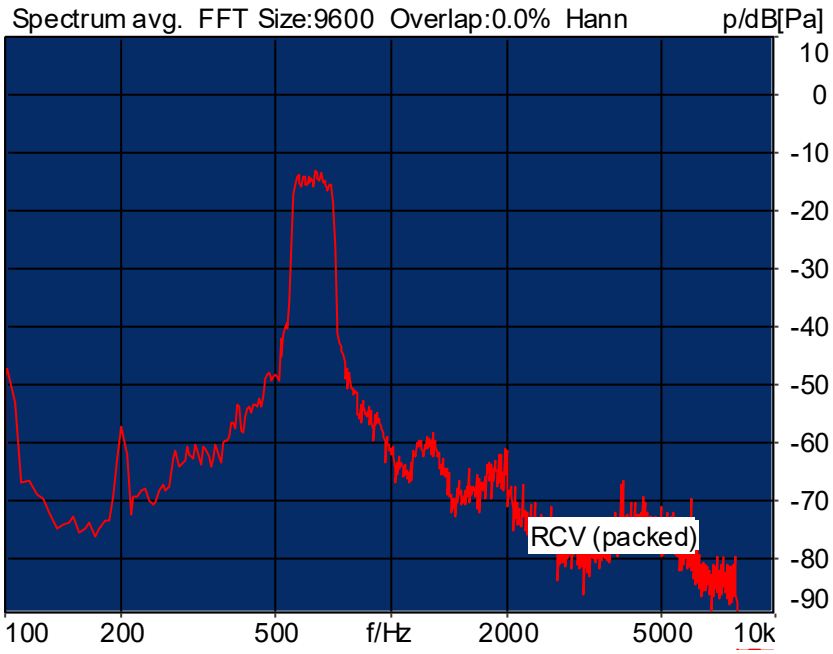
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.70 dB (2.06%) 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

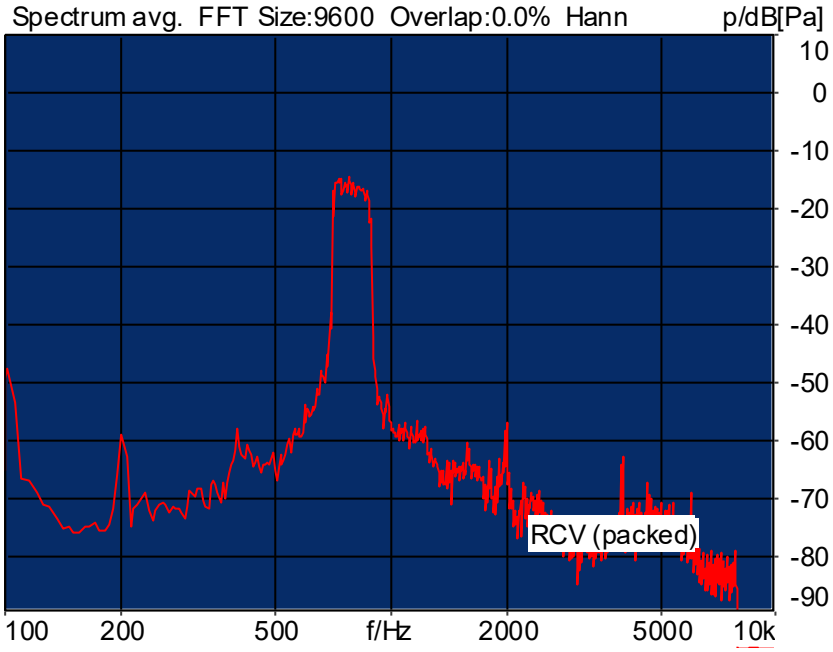
Used Setting	TIA5050

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



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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

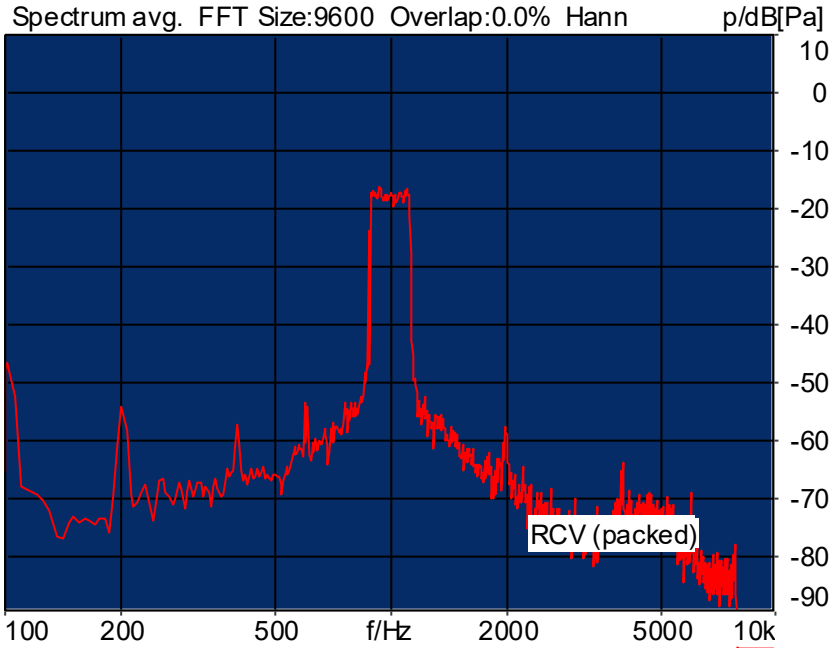
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.35 dB (2.15%) Ok

Ok

2026/6/22 10:43 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

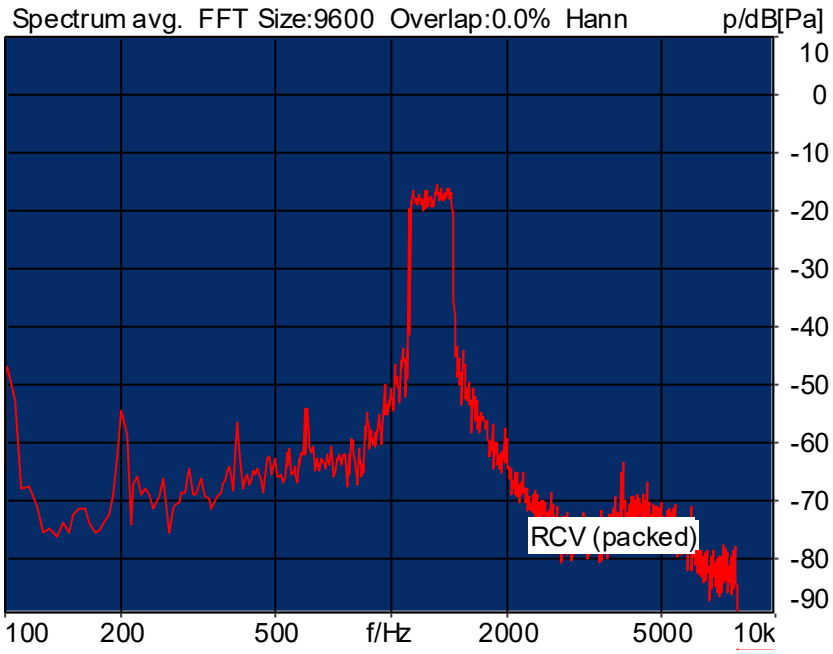
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.93 dB (4.01%) Ok

Ok

2026/6/22 10:44 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

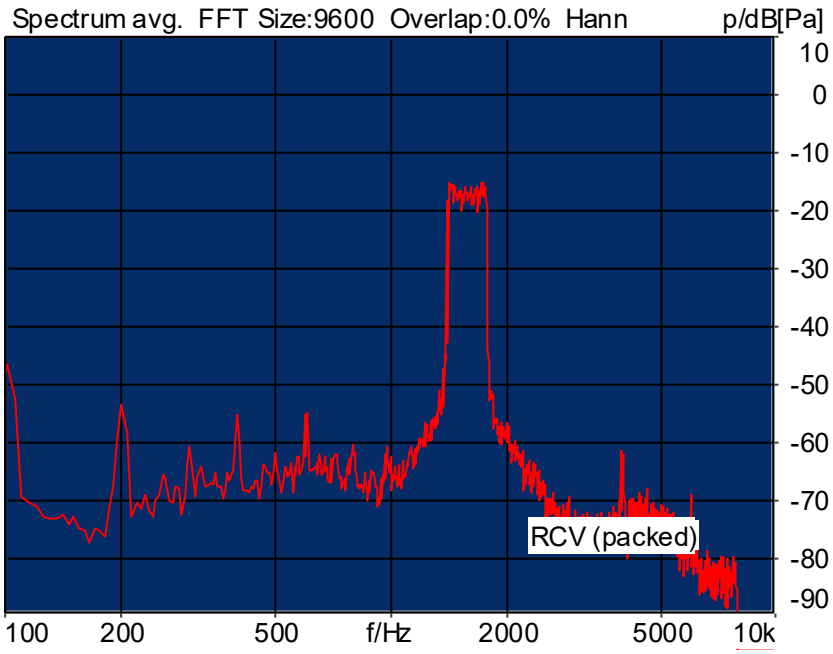
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 36.09 dB (1.57%) Ok

Ok

2026/6/22 10:44 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

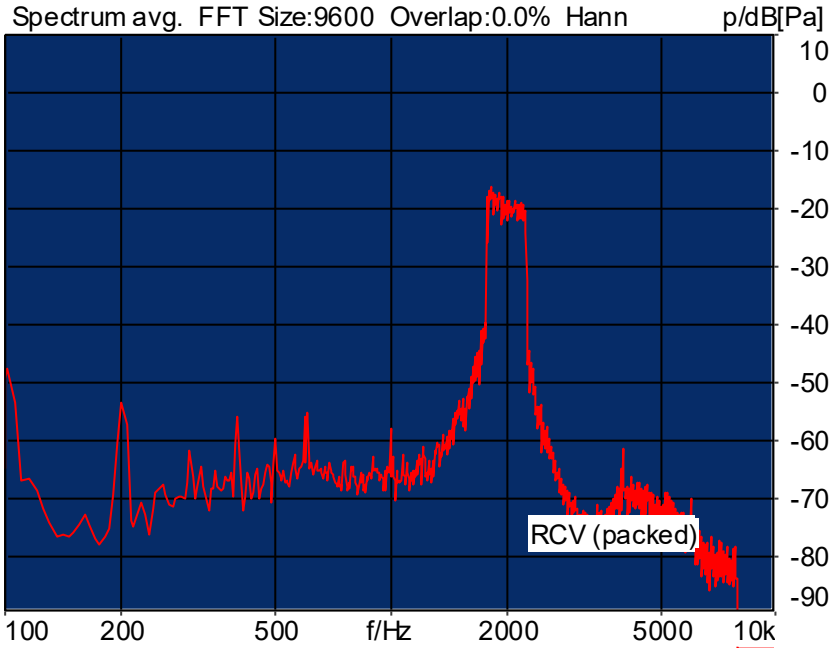
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.18 dB (3.90%) 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

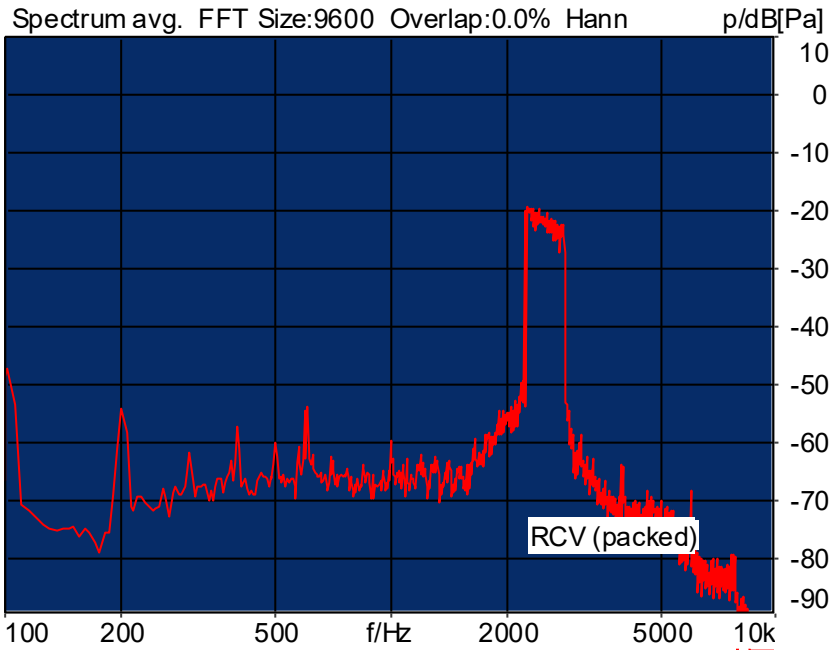
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.44 dB (2.68%) 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

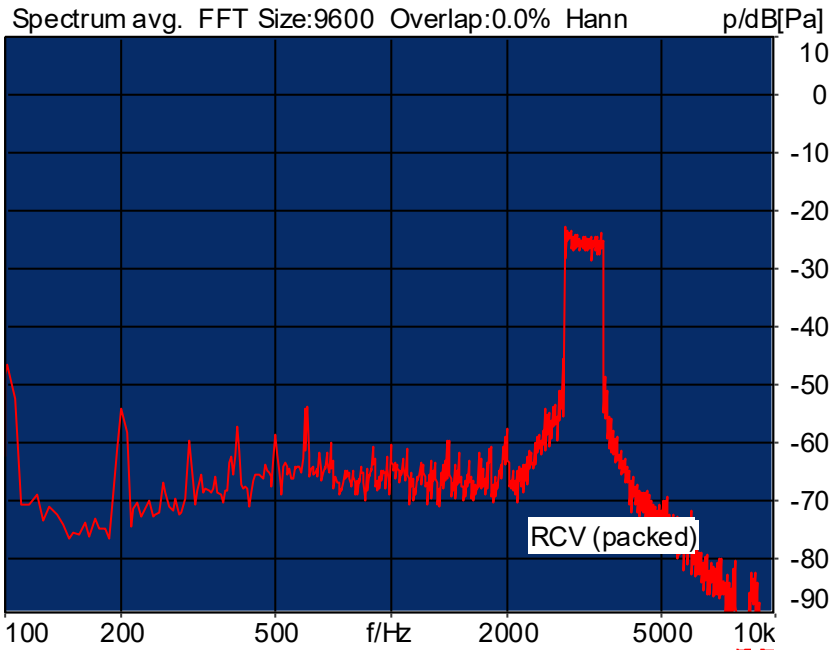
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.63 dB (3.70%) 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

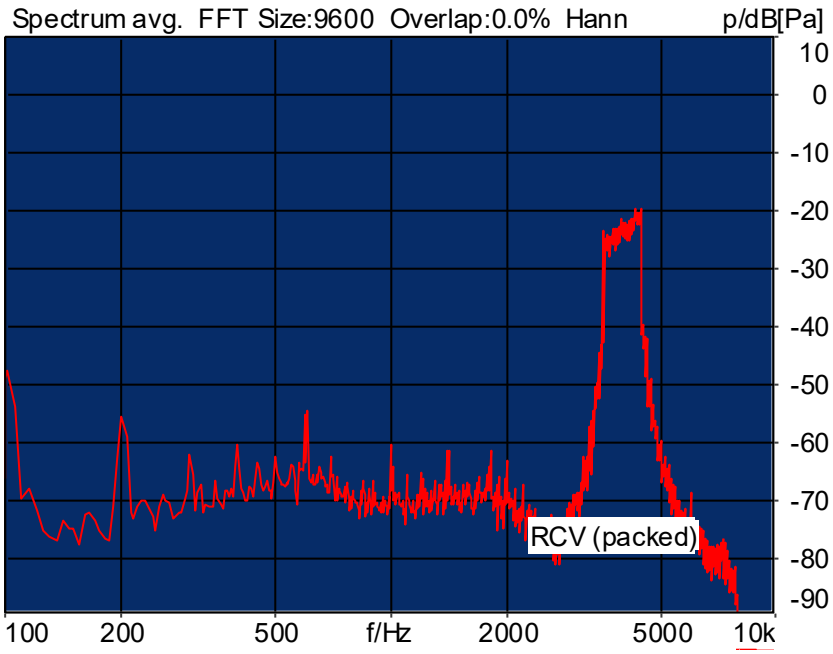
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 25.99 dB (5.02%) 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_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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

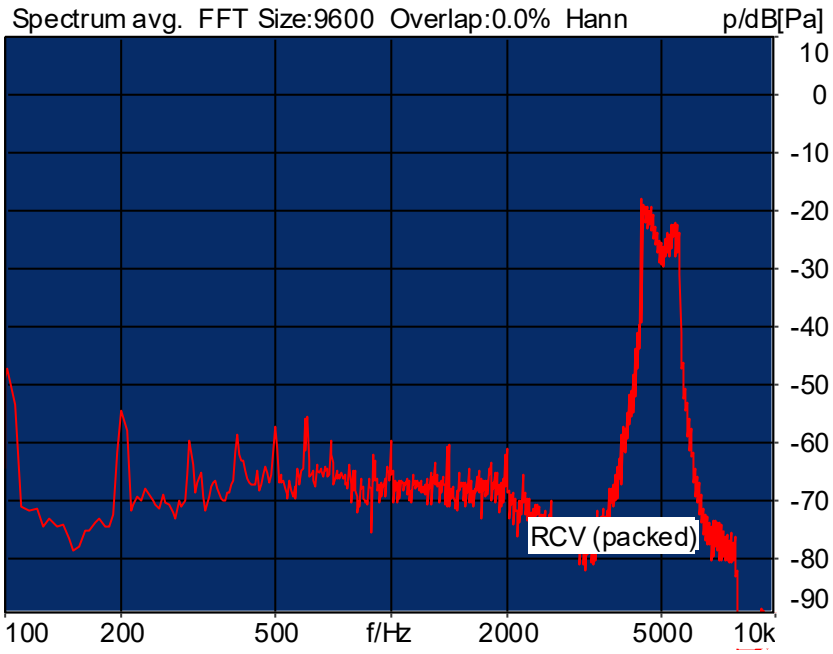
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.53 dB (4.71%) Ok

Ok

2026/6/22 10:46 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	167.8000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

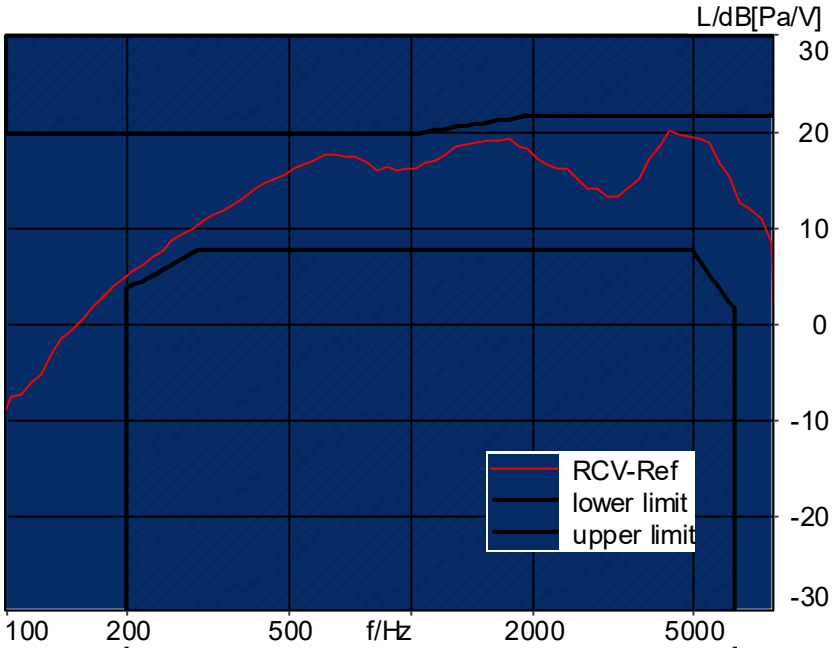
Used Setting	TIA5050

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
1.57 dB at 4369.4 Hz Ok

Ok

2026/6/22 10:46 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	167.8000 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(26#)

Measurement Object	Ti-CC26050303-N66

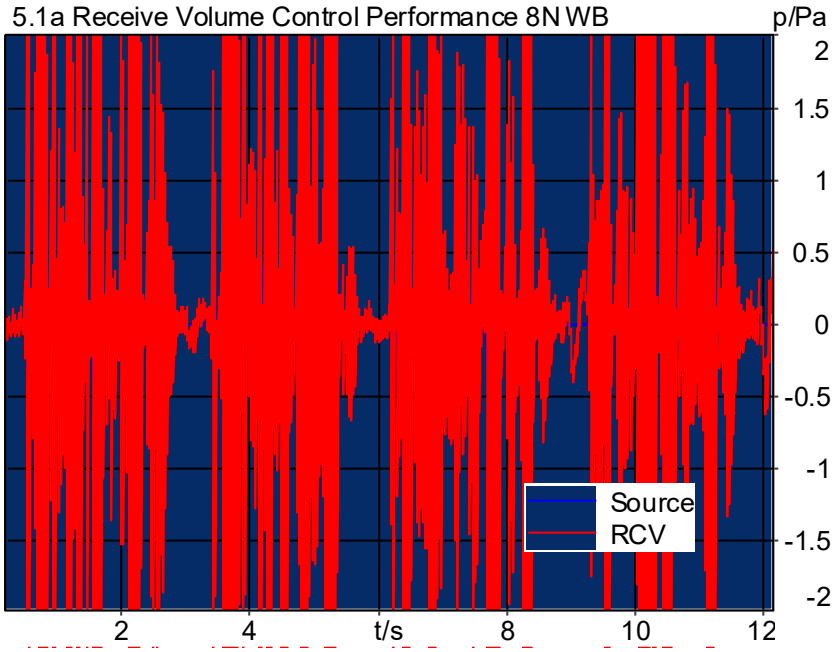
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.57	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.41	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.53	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.73	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.12	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.96	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.65	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.75	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.36	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.74	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.81	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.55	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.97	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.28	Ti-CC26050303-N66
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.50	Ti-CC26050303-N66

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.72	Ti-CC26050303-N66

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.57 dB[SPL]	82.65%	Ok

Ok

2026/6/22 12:02 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

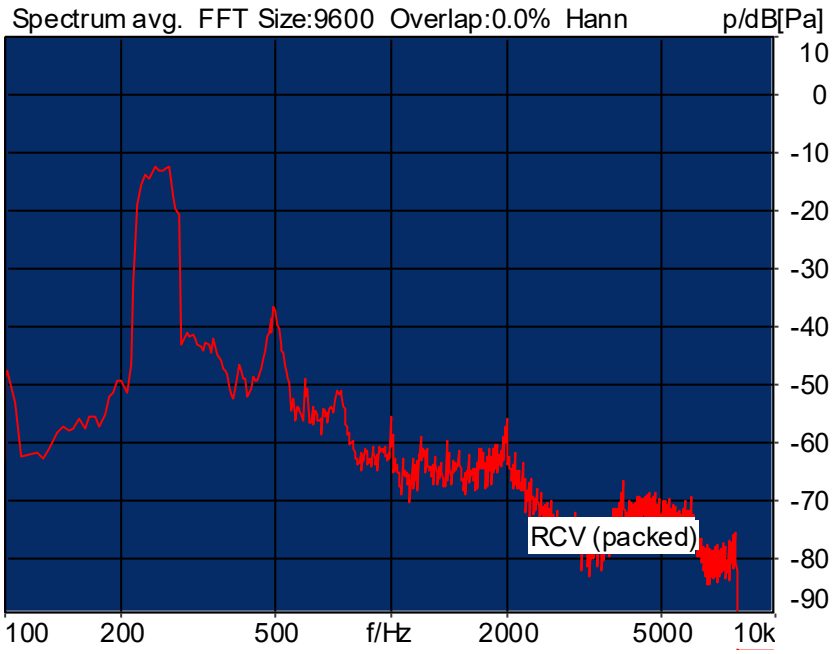
Used Setting	TIA5050

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 8N



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

Ok

2026/6/22 12:02 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

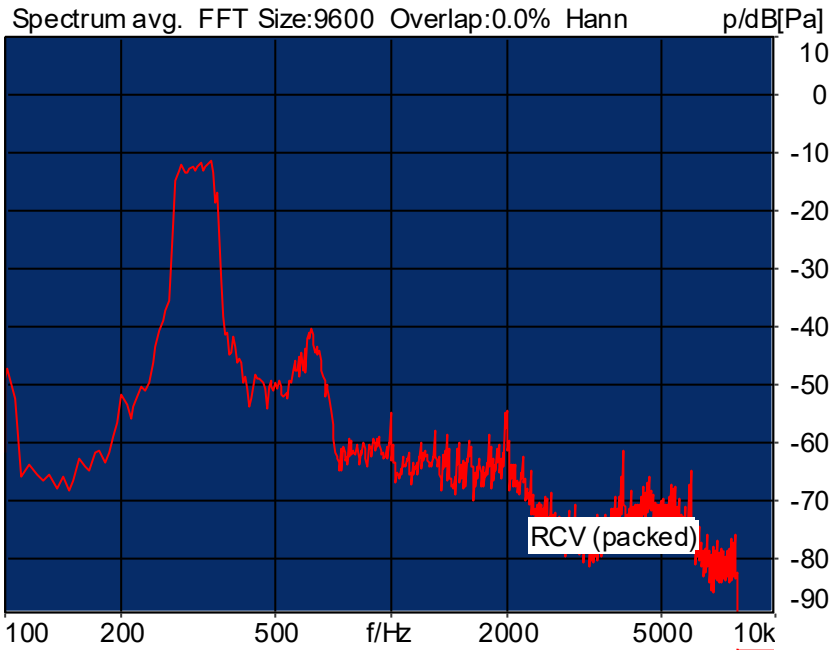
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.53 dB (3.34%) Ok

Ok

2026/6/22 12:02 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

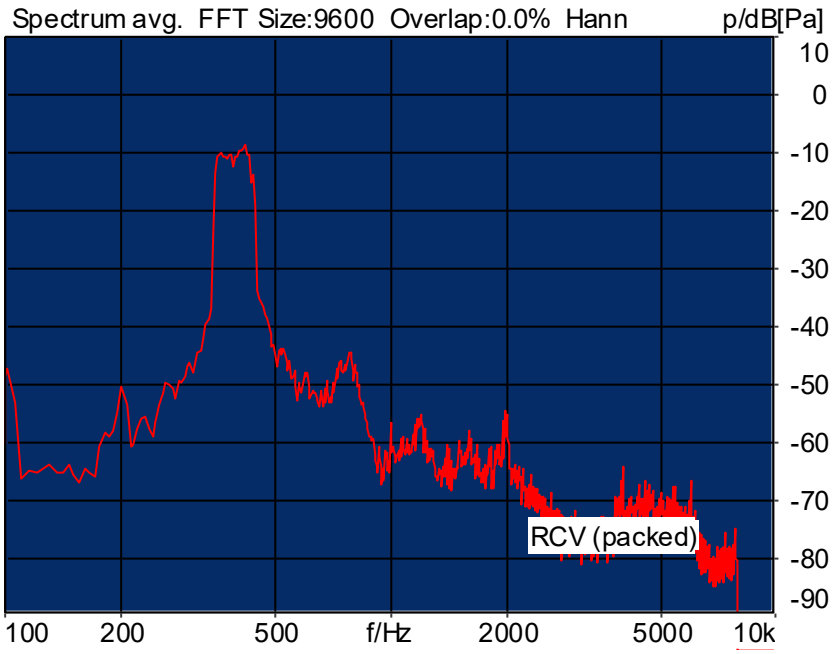
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.73 dB (2.59%) Ok

Ok

2026/6/22 12:03 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

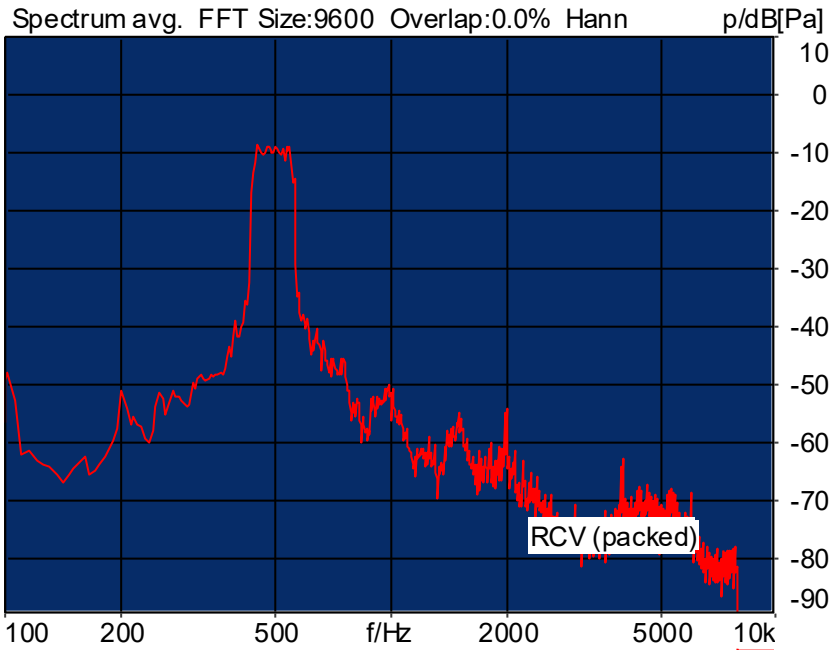
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.12 dB (2.48%) Ok

Ok

2026/6/22 12:03 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

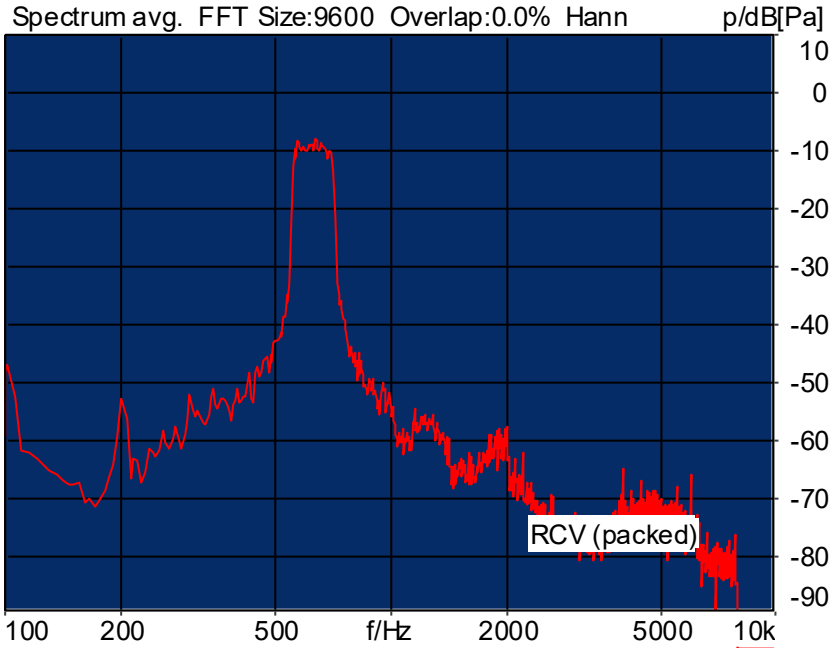
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.96 dB (2.00%) Ok

Ok

2026/6/22 12:04 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

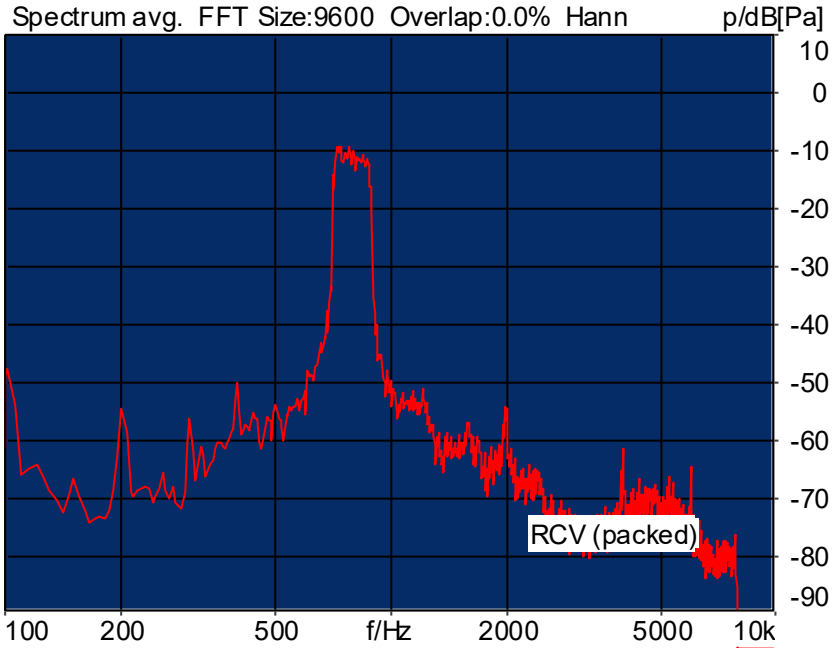
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.65 dB (1.85%) Ok

Ok

2026/6/22 12:04 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

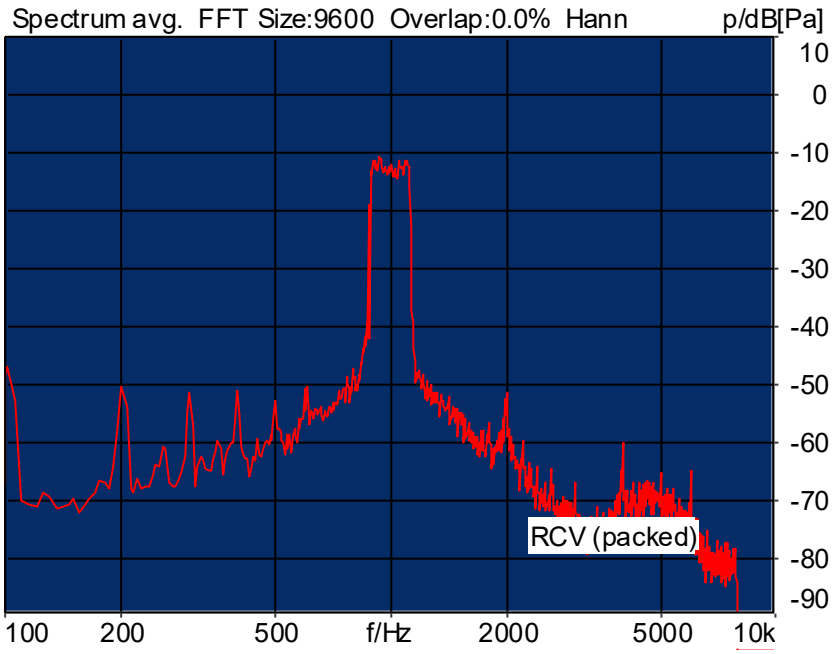
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.75 dB (2.05%) Ok

Ok

2026/6/22 12:04 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

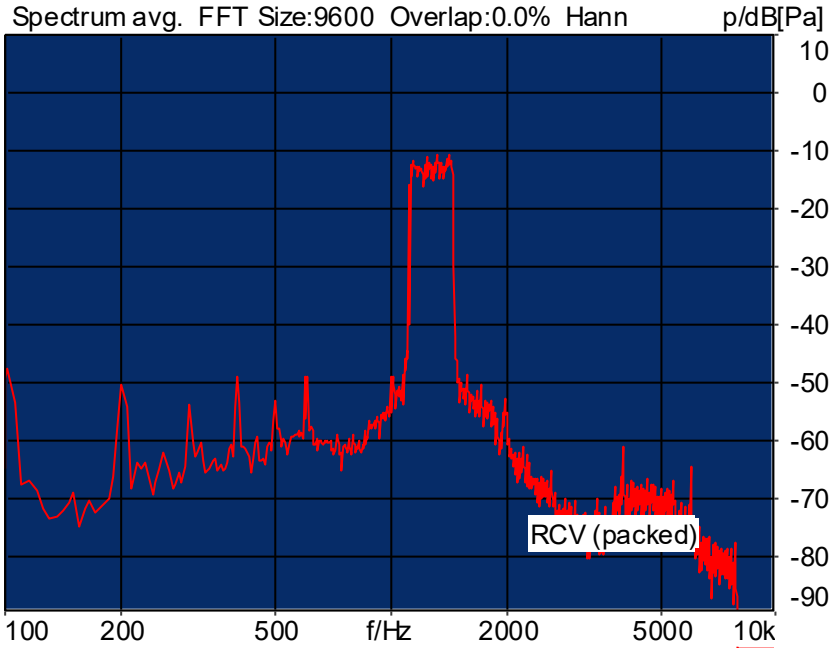
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.36 dB (2.70%) Ok

Ok

2026/6/22 12:05 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

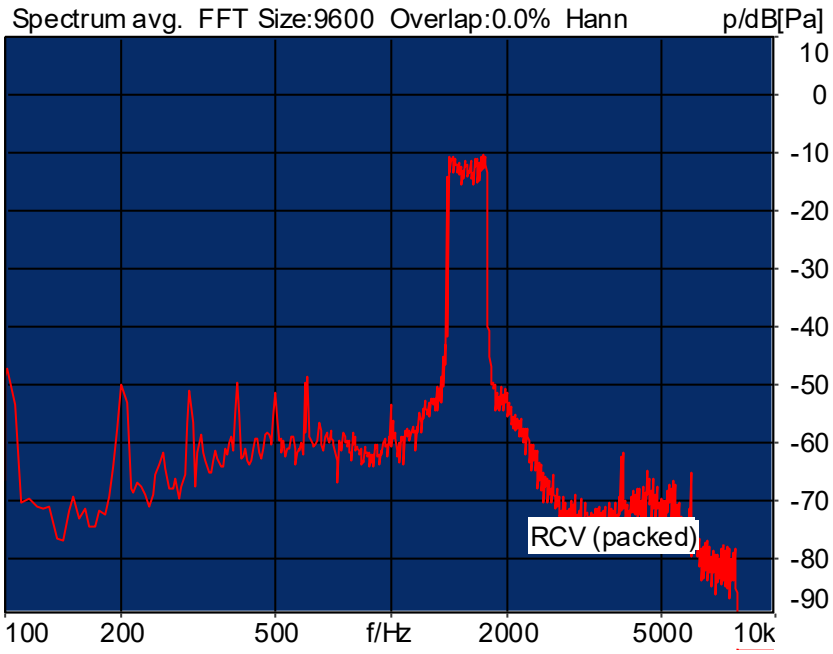
Used Setting	TIA5050

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): 36.74 dB (1.46%) Ok

Ok

2026/6/22 12:05 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

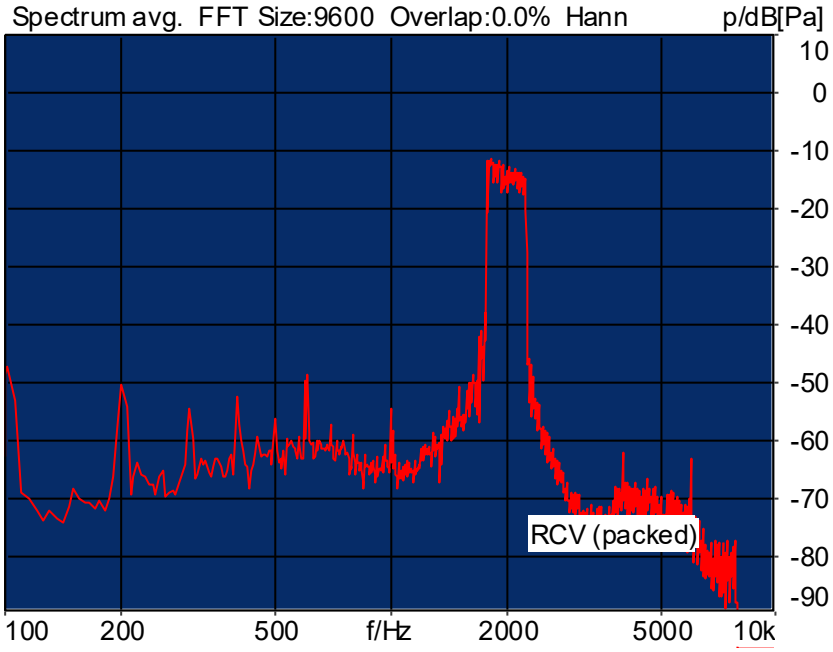
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.81 dB (1.82%) Ok

Ok

2026/6/22 12:06 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

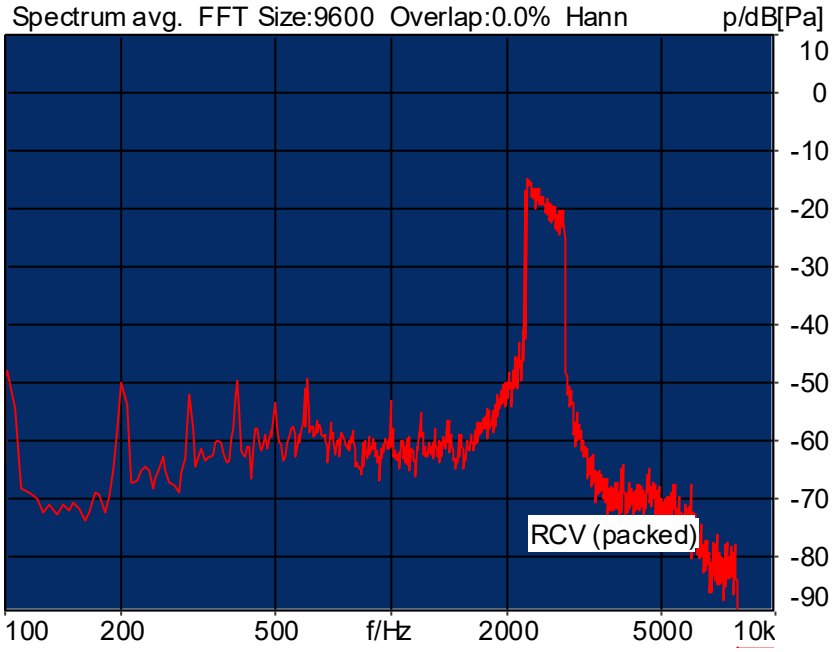
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.55 dB (3.33%) Ok

Ok

2026/6/22 12:06 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

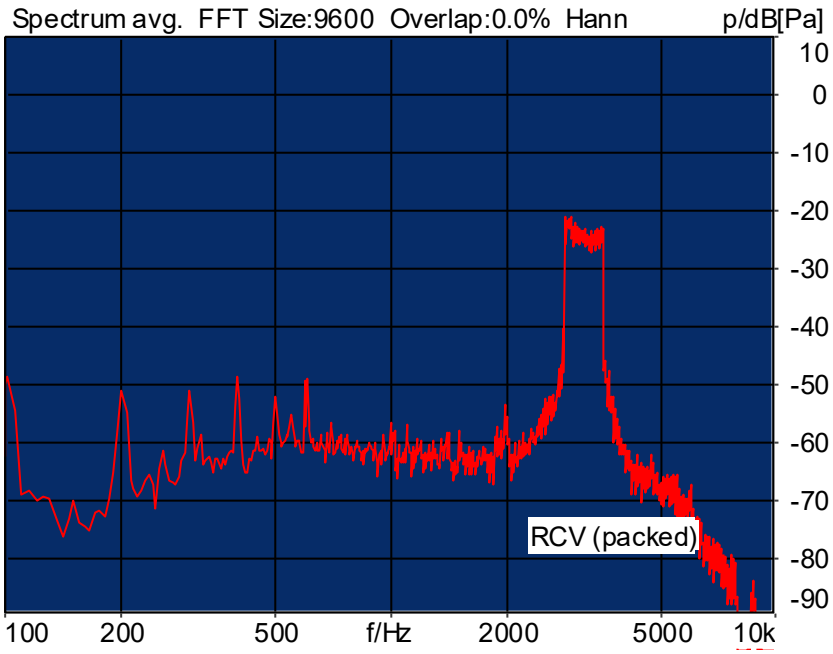
Used Setting	TIA5050

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



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

Ok

2026/6/22 12:06 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

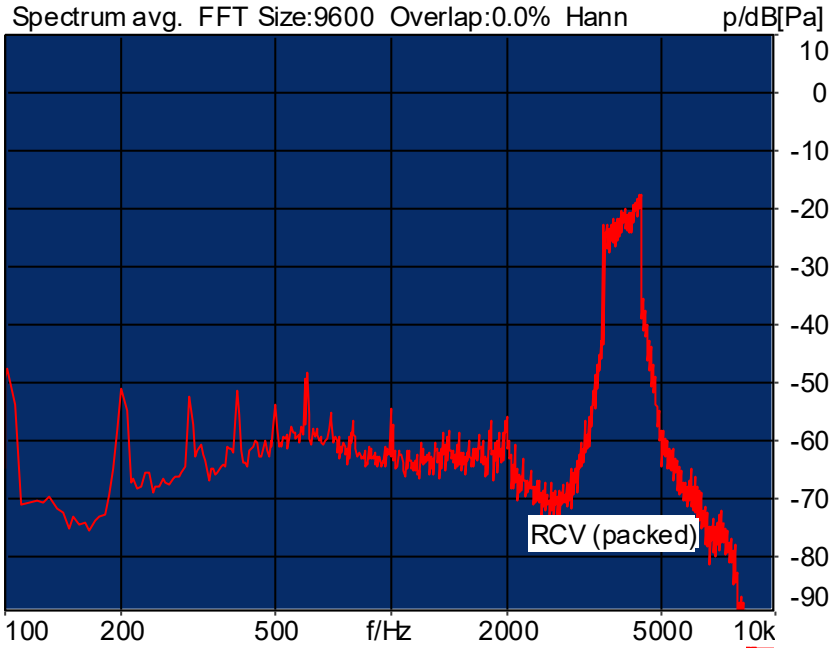
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 23.28 dB (6.85%) Ok

Ok

2026/6/22 12:07 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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

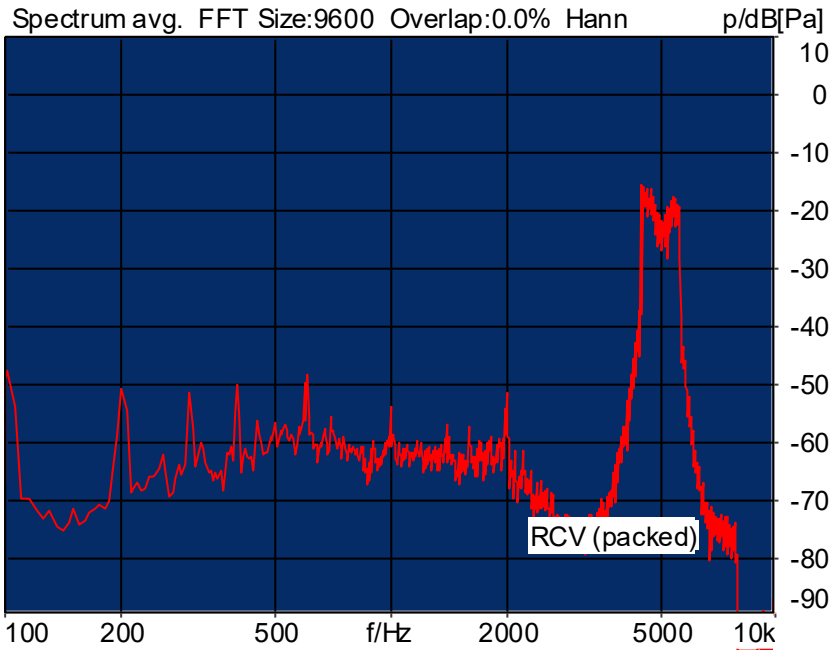
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.50 dB (4.22%) 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_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	153.9000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

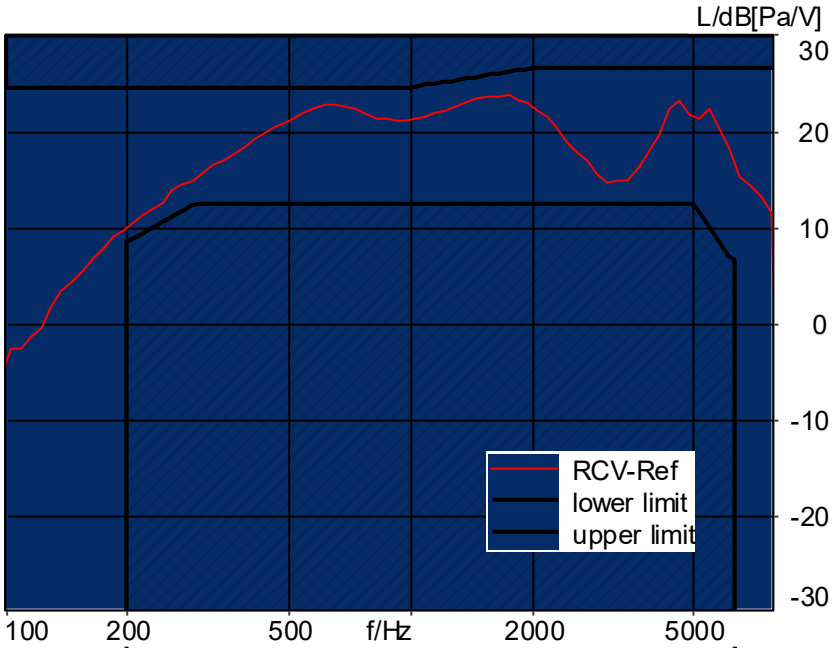
Used Setting	TIA5050

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
1.72 dB at 649.1 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	153.9000 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

Measurement Protocol(27#)

Measurement Object	TI-CC26050303-N70

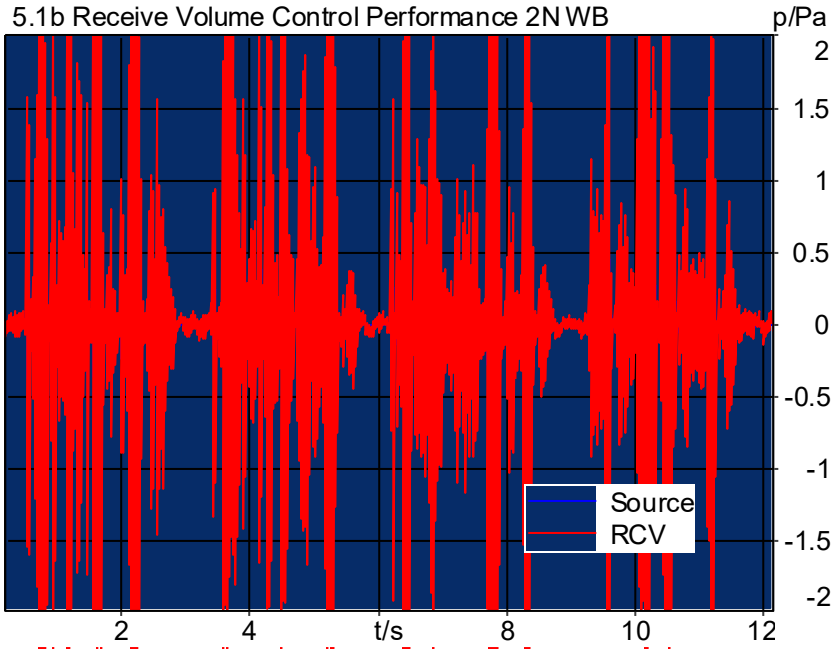
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.09	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.95	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.49	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.71	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.06	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.36	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.42	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.49	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.87	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.53	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.47	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.64	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.64	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.19	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.72	TI-CC26050303-N70
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	25.87	TI-CC26050303-N70

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4620.1 Hz	1.77	TI-CC26050303-N70

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	86.09 dB[SPL]	83.99%	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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

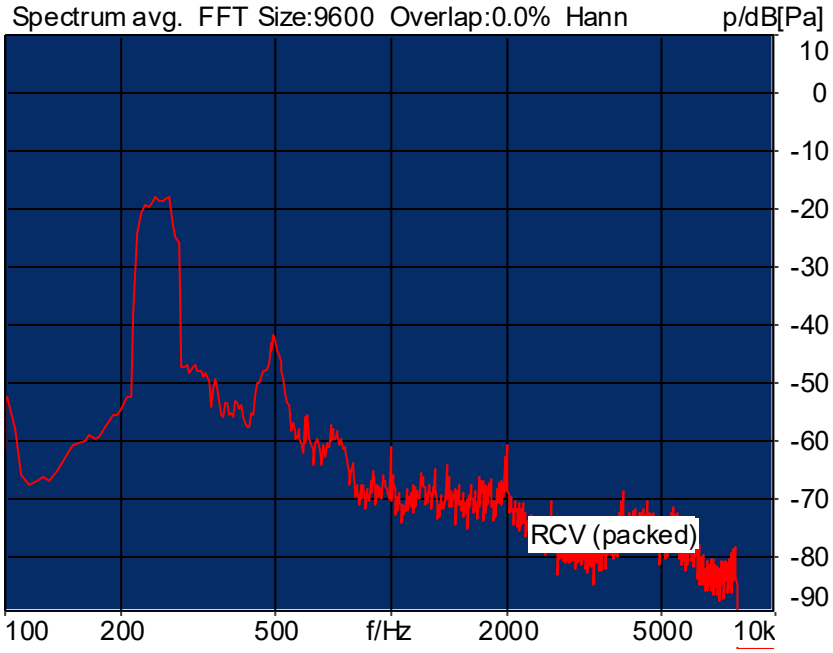
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 25.95 dB (5.04%) 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_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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

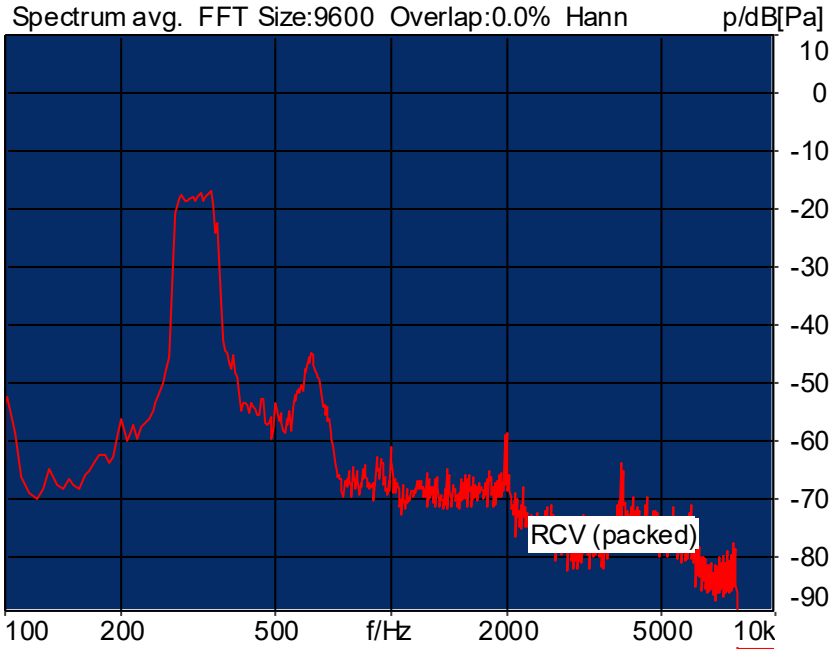
Used Setting	TIA5050

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-24.4



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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

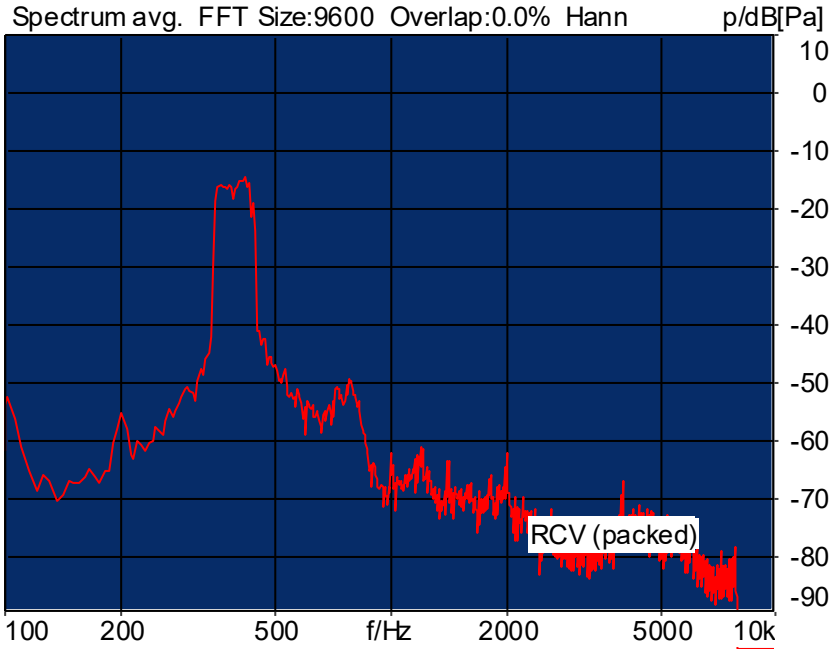
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.71 dB (2.92%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

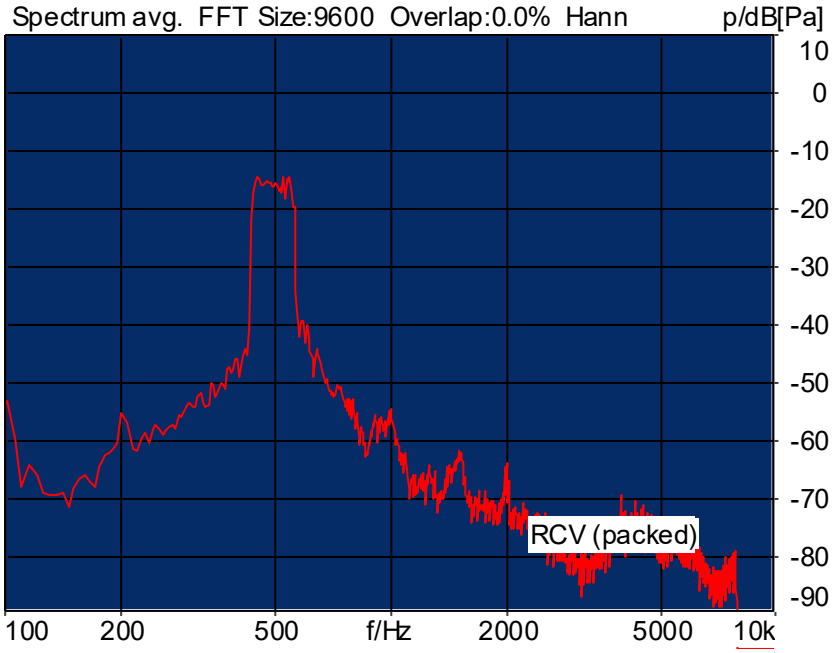
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.06 dB (3.14%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

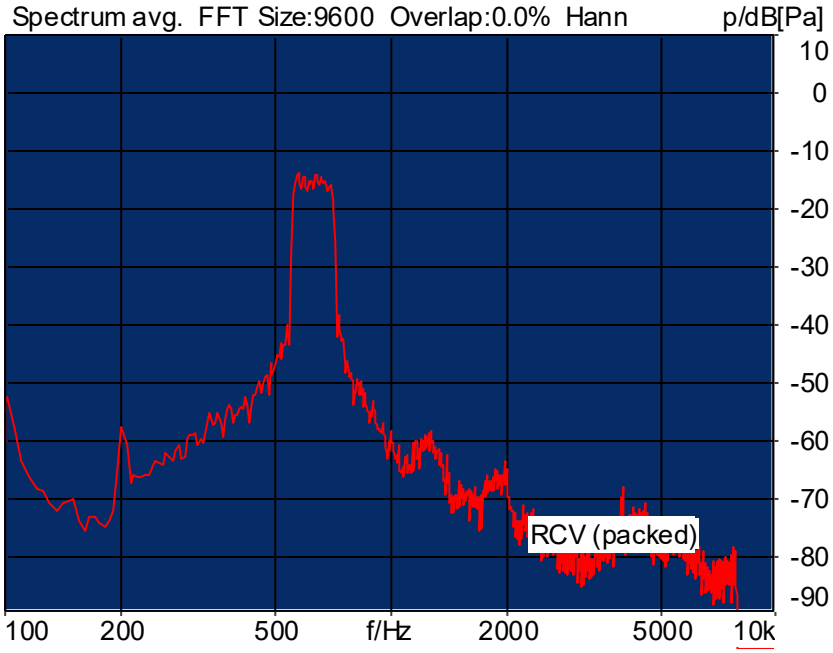
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 32.36 dB (2.41%) 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_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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

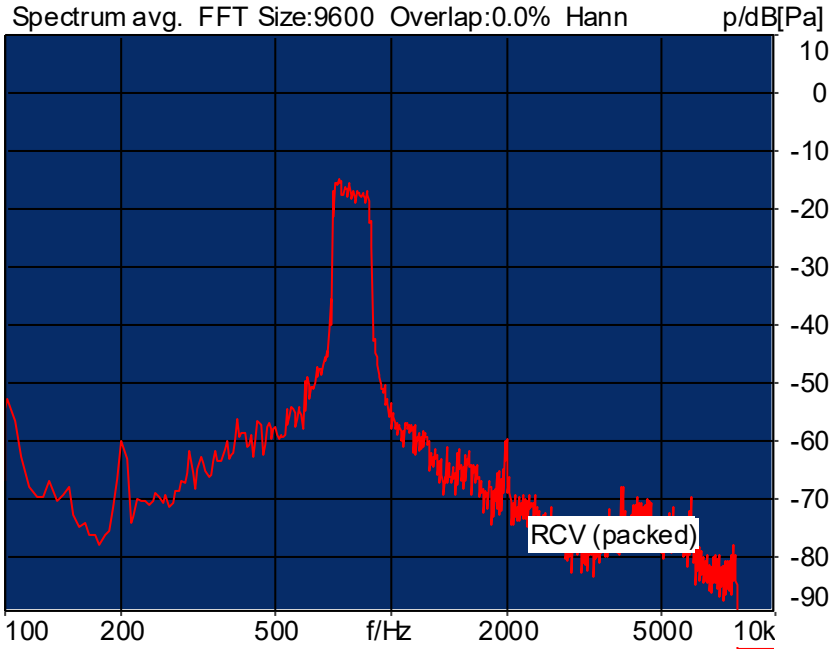
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 32.42 dB (2.39%) 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_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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

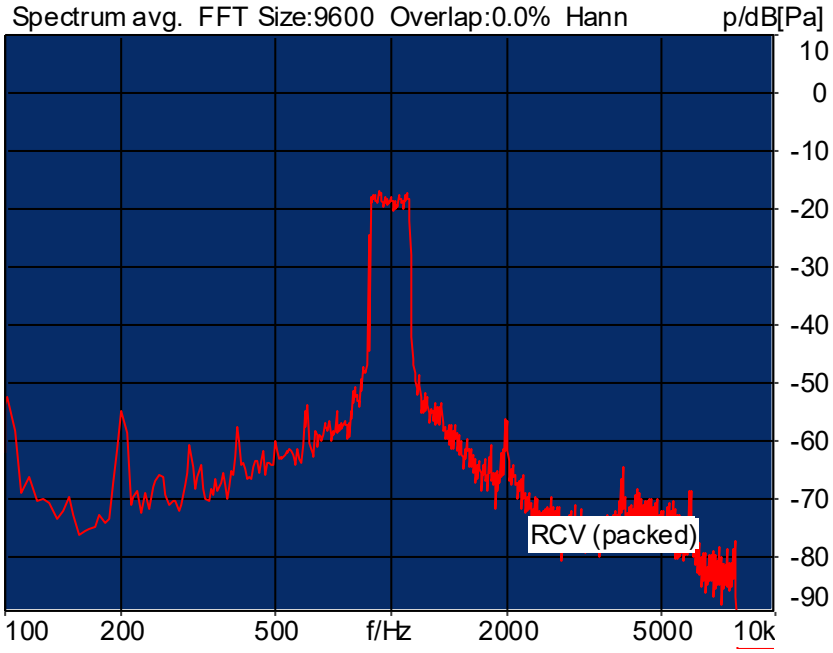
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.49 dB (2.66%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

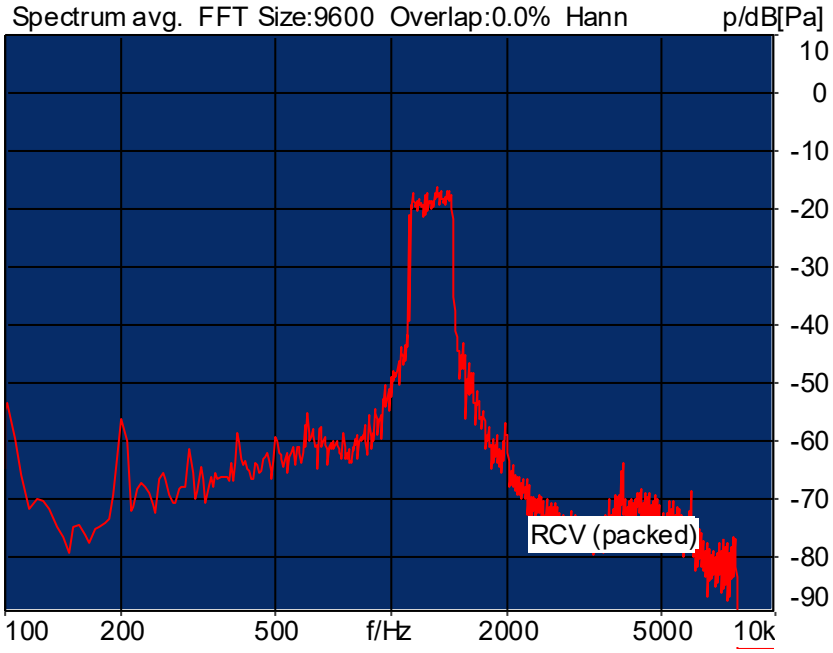
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 25.87 dB (5.09%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

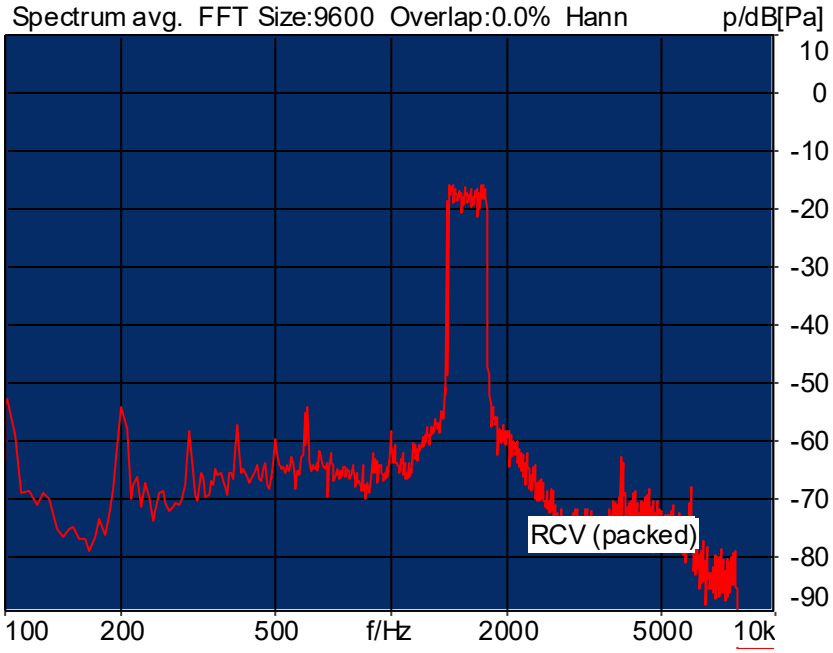
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 36.53 dB (1.49%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

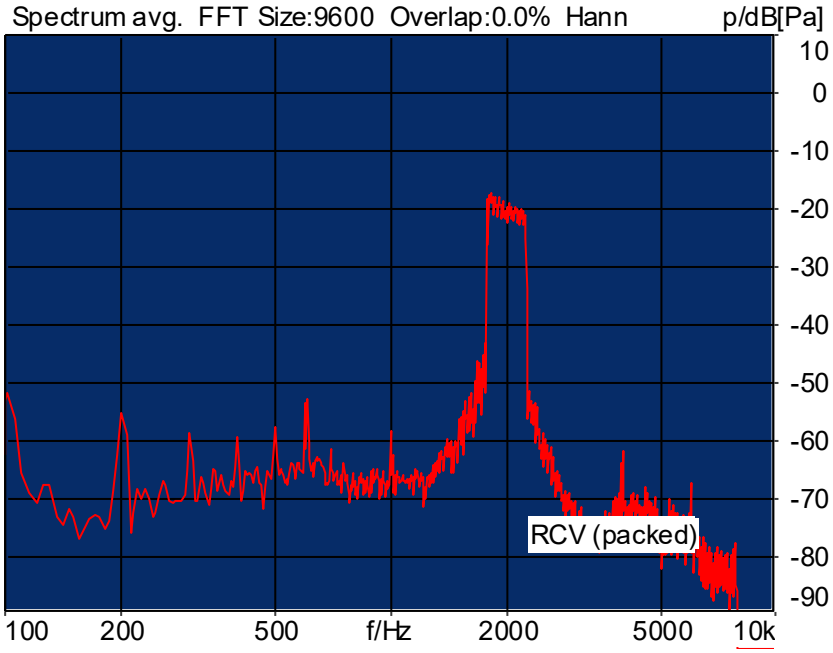
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.47 dB (2.67%) 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_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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

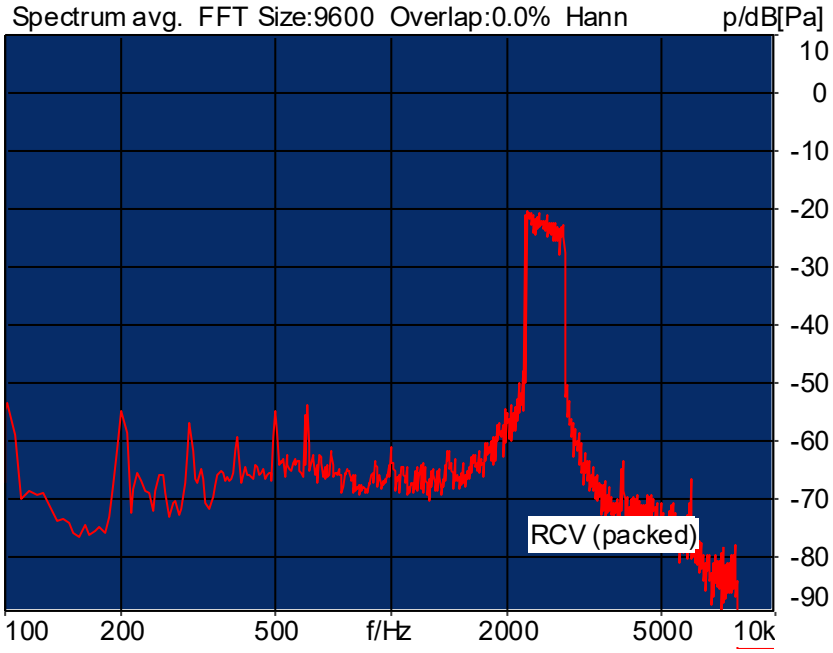
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.64 dB (2.94%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

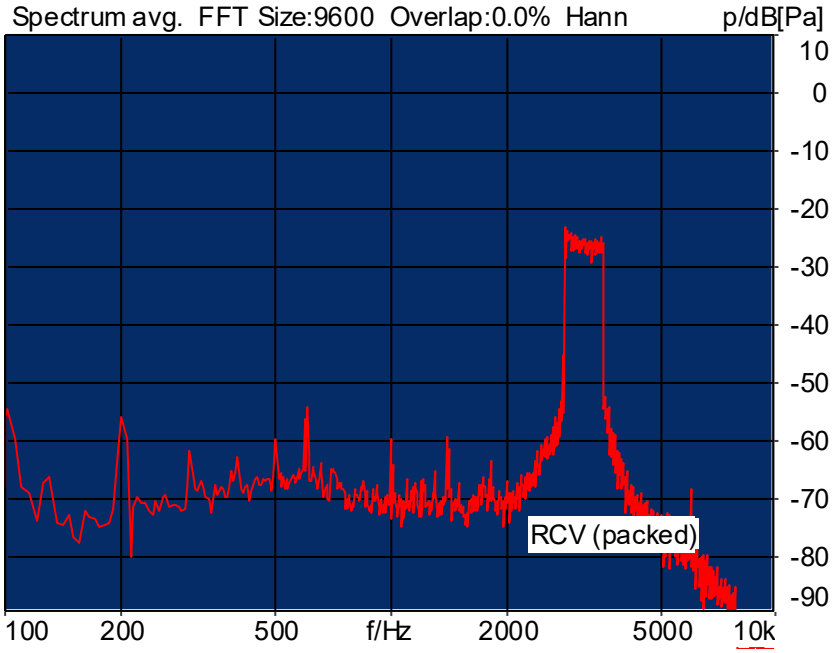
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.64 dB (2.94%) 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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

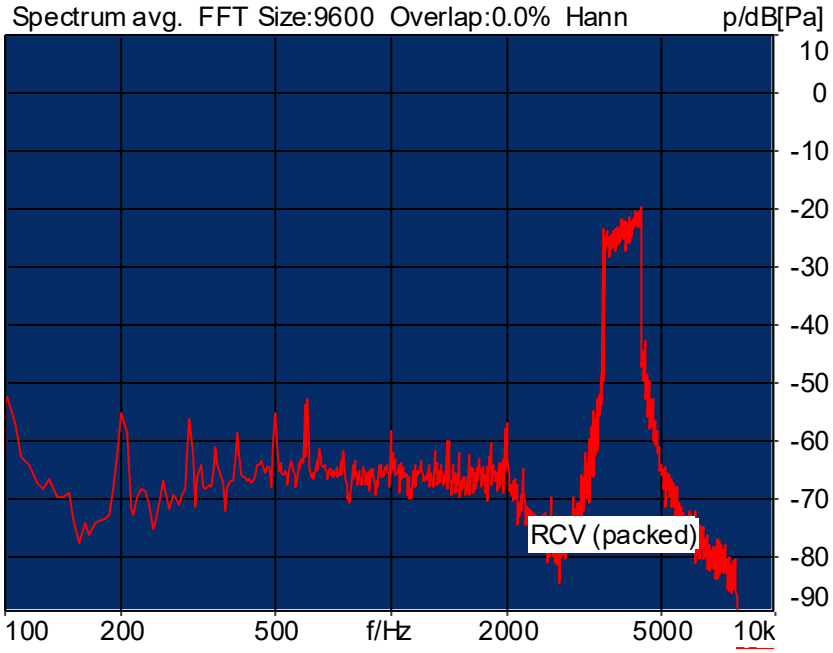
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 29.19 dB (3.47%) 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_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	330.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

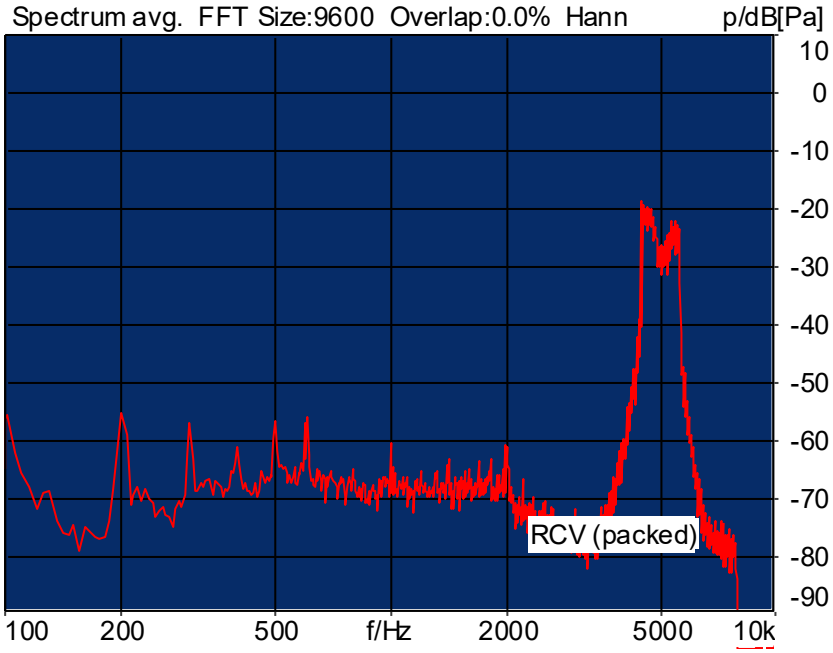
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.72 dB (4.61%) 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	330.3000 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

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N
EVS-WB-24.4

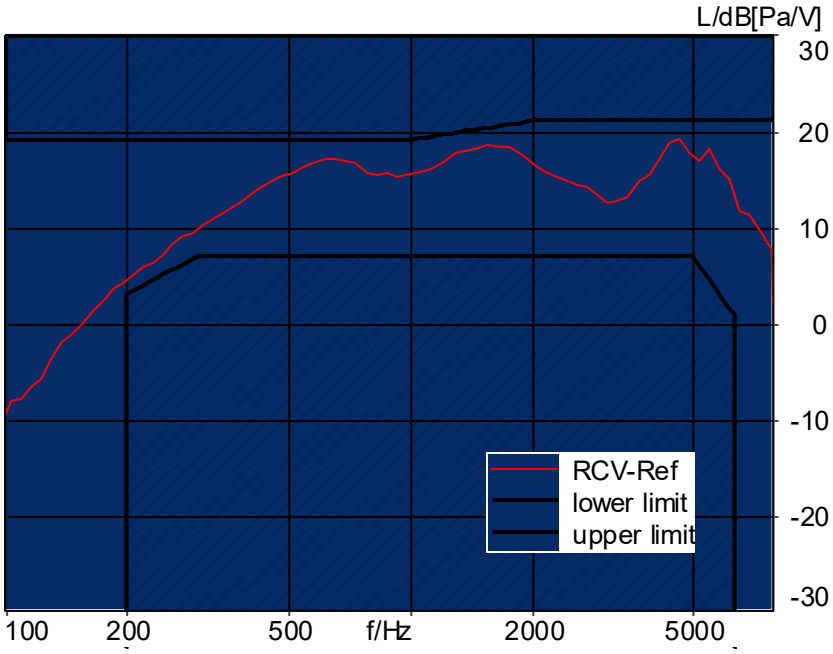
Region	Frequency	SDNR
1	250Hz	25.95 dB
2	315Hz	28.49 dB
3	400Hz	30.71 dB
4	500Hz	30.06 dB
5	630Hz	32.36 dB
6	800Hz	32.42 dB
7	1000Hz	31.49 dB
8	1250Hz	25.87 dB
9	1600Hz	36.53 dB
10	2000Hz	31.47 dB
11	2500Hz	30.64 dB
12	3150Hz	30.64 dB
13	4000Hz	29.19 dB
14	5000Hz	26.72 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 25.87dB at 1250Hz.

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5.3 Frequency Response 2N FF

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Absolute minimal distance
1.77 dB at 4620.1 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	330.3000 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(28#)

Measurement Object	TI-CC26050303-N70

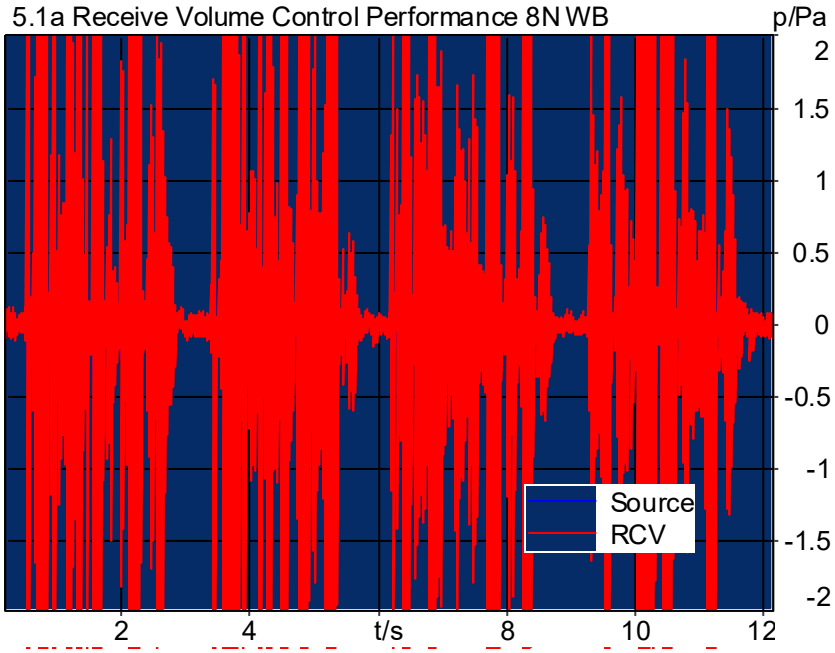
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.84	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.50	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.84	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.04	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.90	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.17	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.30	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.58	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.49	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.74	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.28	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.23	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.05	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.56	TI-CC26050303-N70
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.01	TI-CC26050303-N70
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	25.49	TI-CC26050303-N70

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 3058.6 Hz	1.22	TI-CC26050303-N70

5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	91.84 dB[SPL]	82.75%	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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

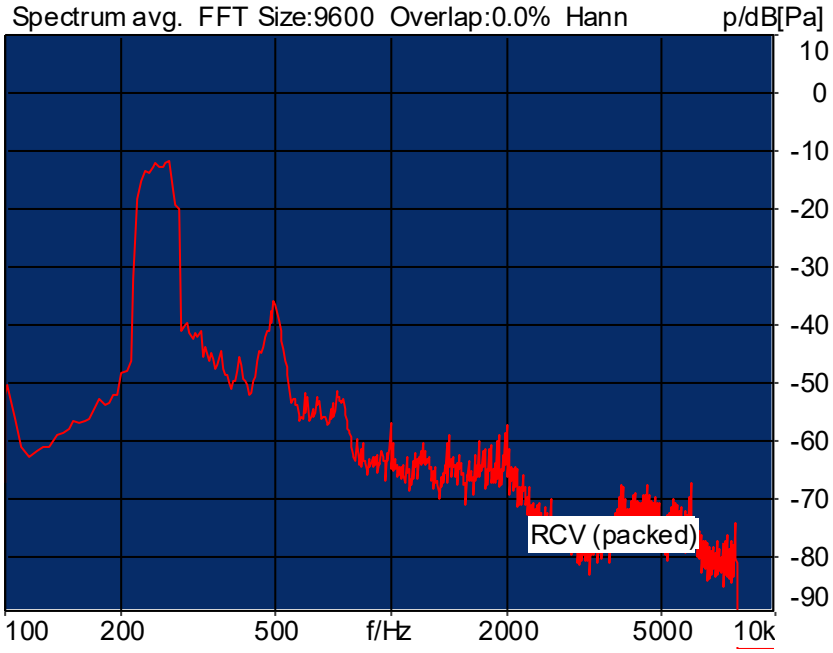
Used Setting	TIA5050

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 8N EVS-WB-24.4



Distortion (Noise) RCV (packed): 26.50 dB (4.73%) 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

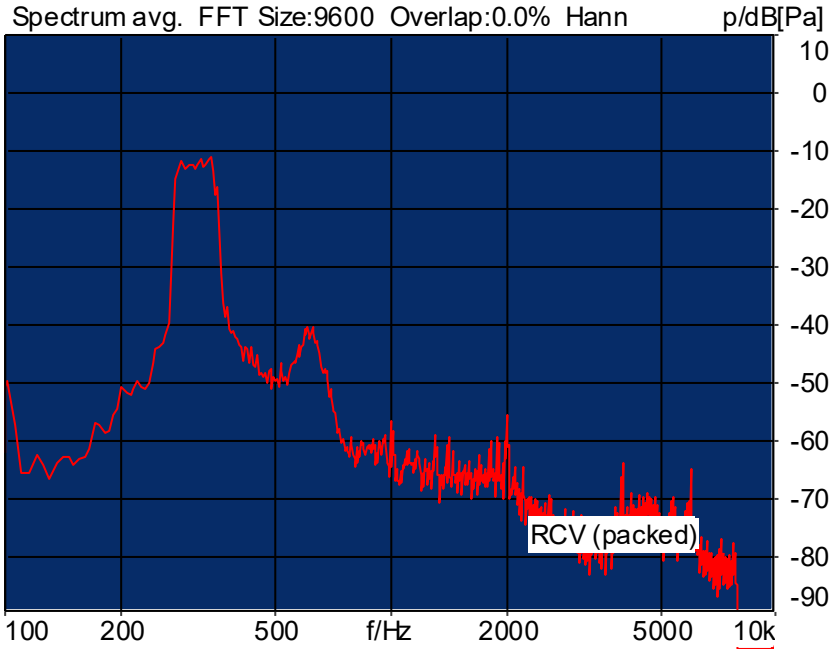
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 28.84 dB (3.61%) 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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

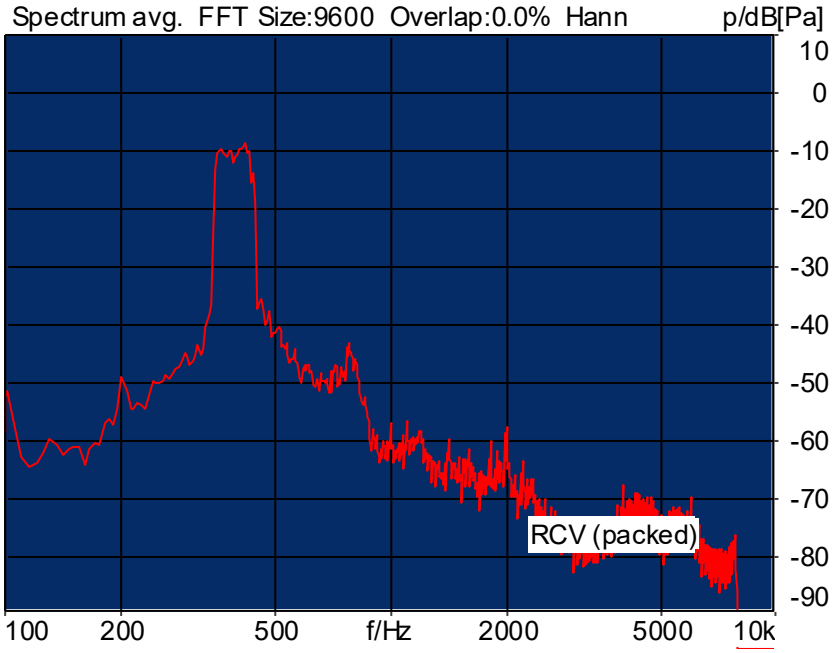
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 31.04 dB (2.81%) Ok

Ok

2026/7/6 13:33 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

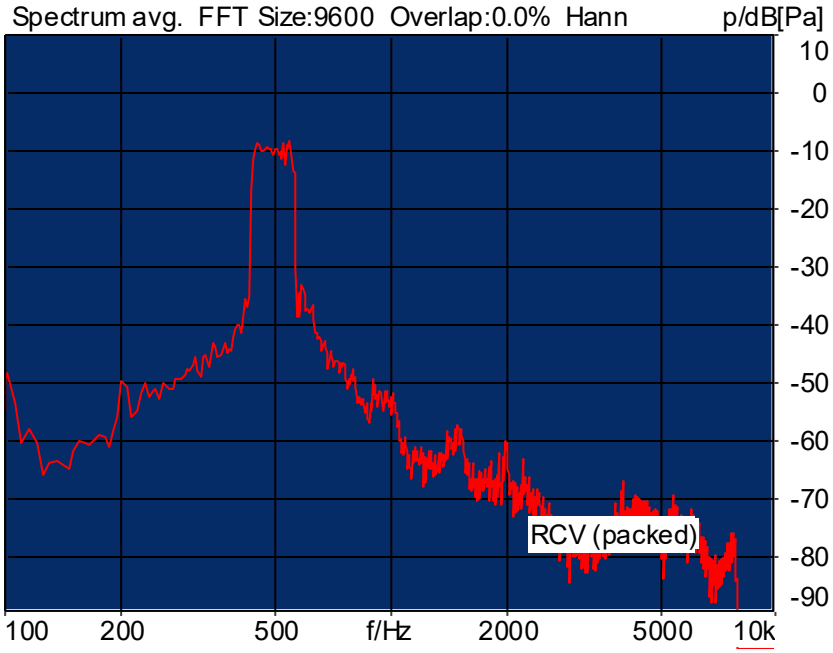
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.90 dB (2.85%) Ok

Ok

2026/7/6 13:34 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

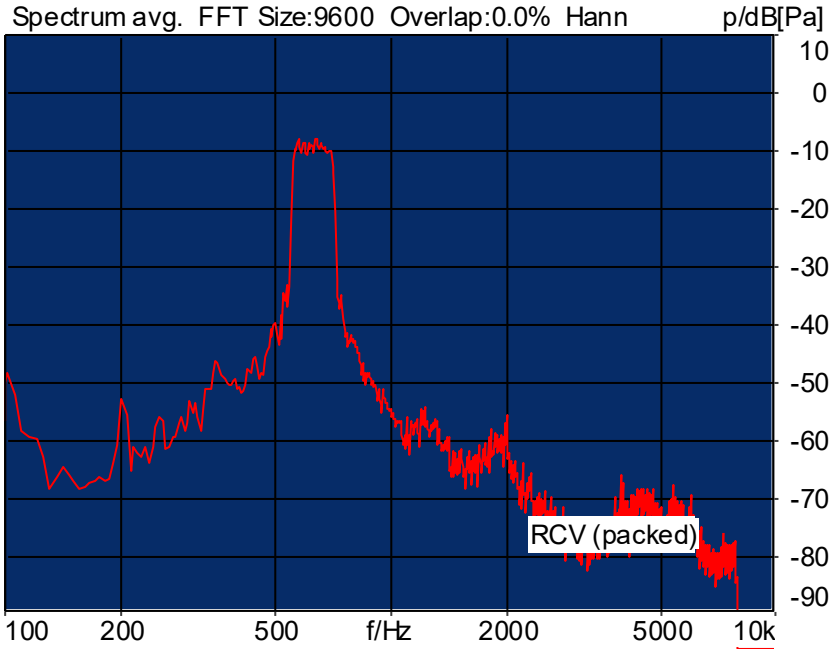
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.17 dB (2.19%) Ok

Ok

2026/7/6 13:34 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

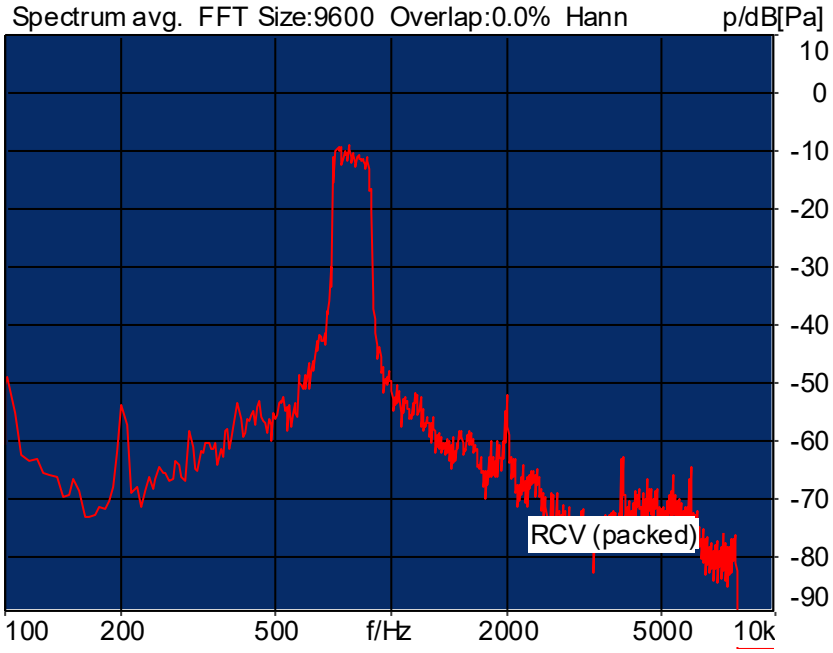
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 34.30 dB (1.93%) Ok

Ok

2026/7/6 13:34 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

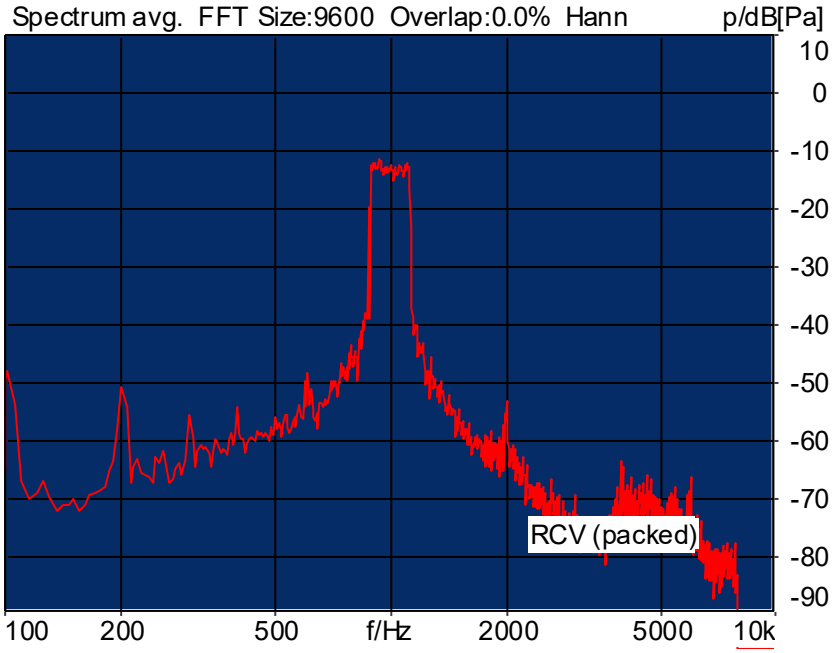
Used Setting	TIA5050

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-24.4



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

Ok

2026/7/6 13:35 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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

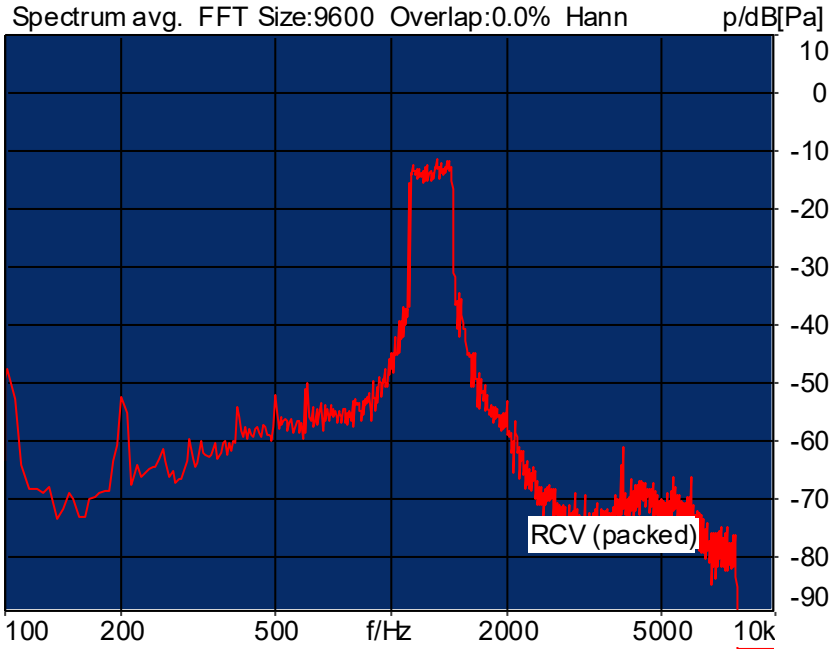
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 25.49 dB (5.31%) Ok

Ok

2026/7/6 13:35 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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

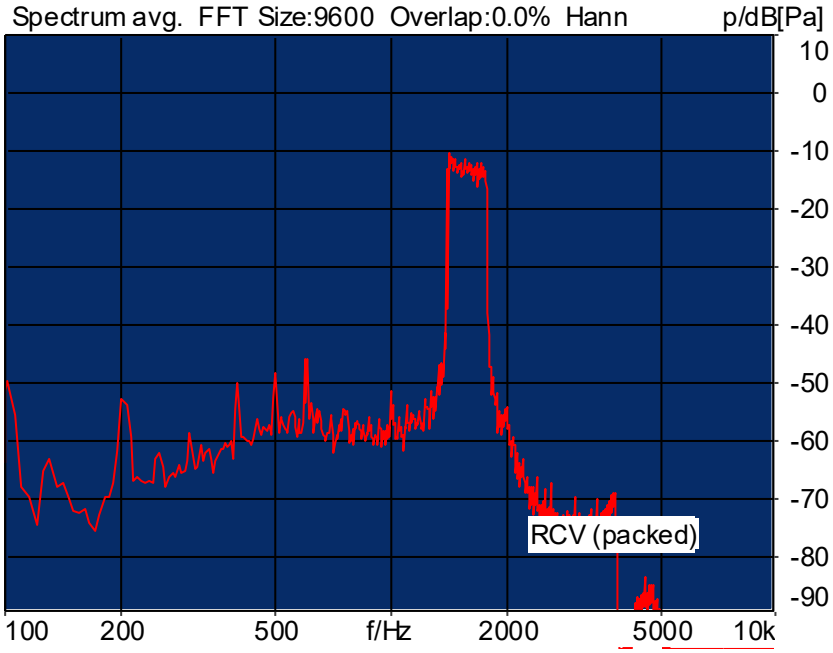
Used Setting	TIA5050

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 EVS-WB-24.4



Distortion (Noise) RCV (packed): 36.74 dB (1.46%) Ok

Ok

2026/7/6 13:54 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

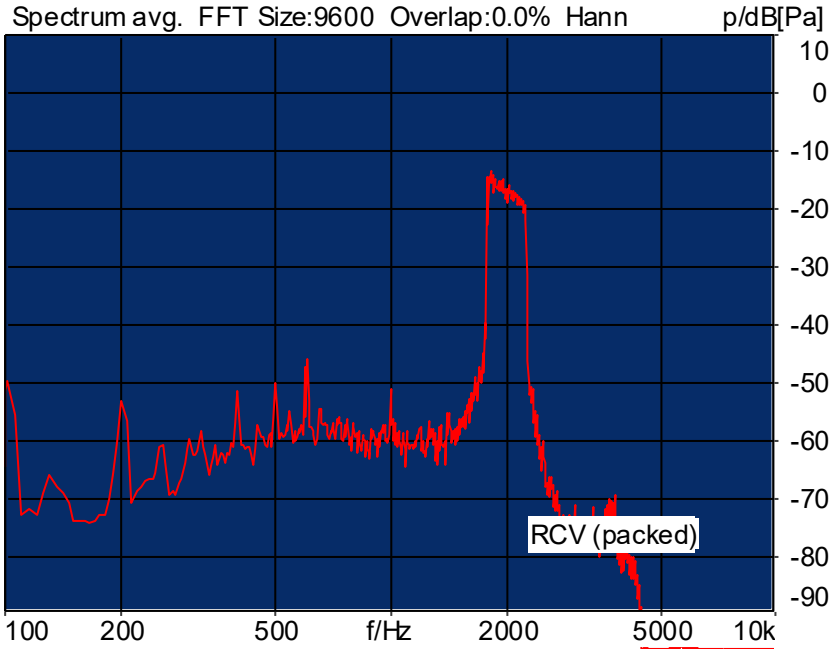
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.28 dB (2.17%) Ok

Ok

2026/7/6 13:55 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

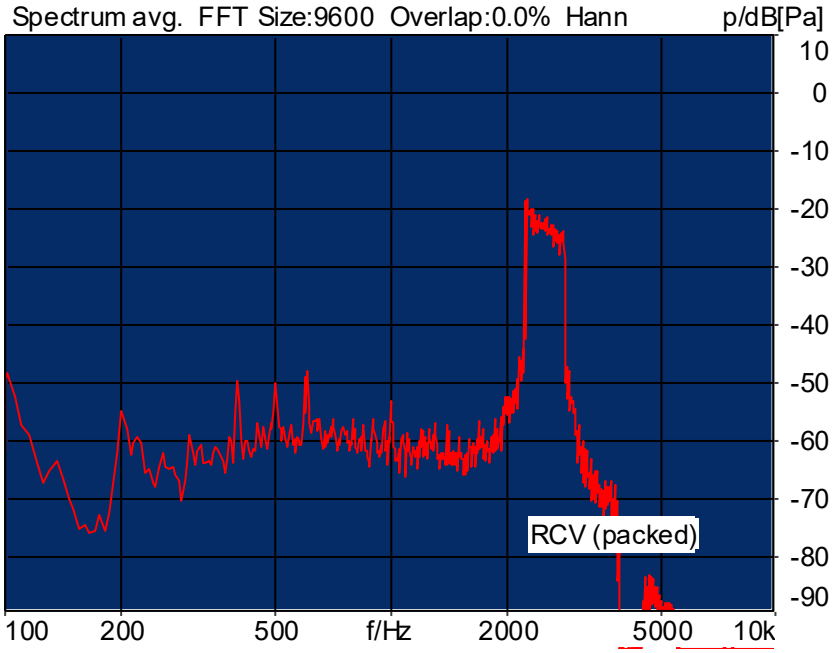
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 27.23 dB (4.35%) Ok

Ok

2026/7/6 13:55 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

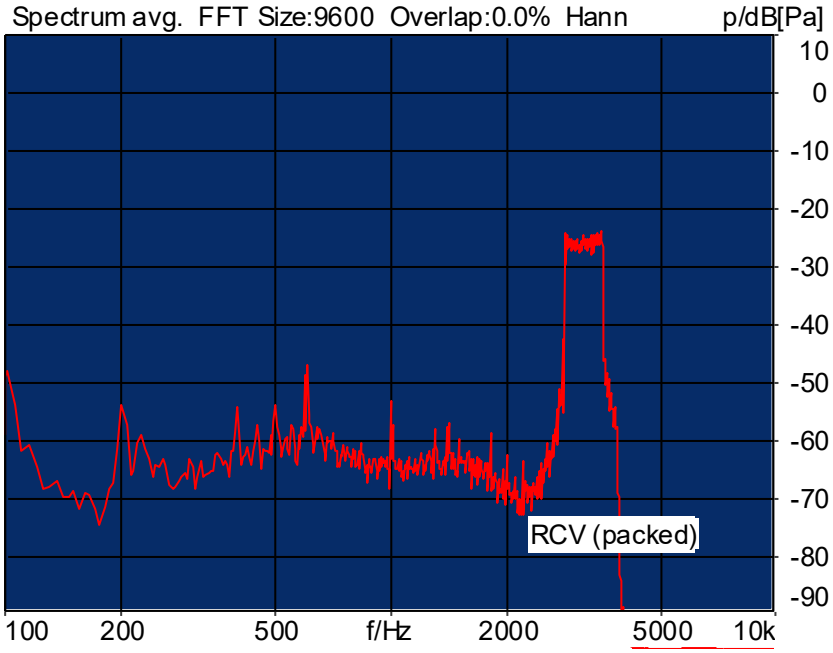
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 27.05 dB (4.44%) 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

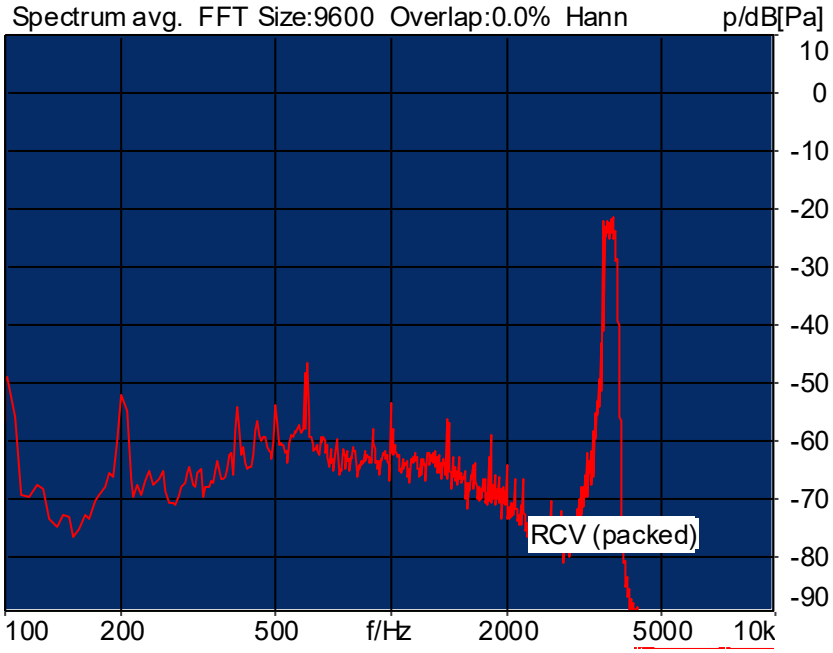
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 28.56 dB (3.73%) Ok

Ok

2026/7/6 13:56 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_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	333.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

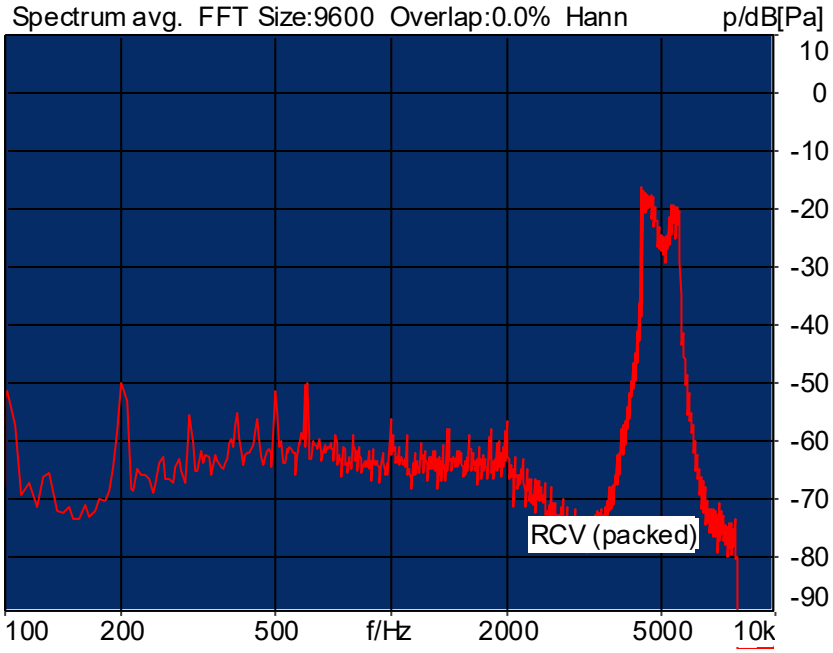
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.01 dB (5.01%) 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	333.1000 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

Report - Receive Distortion and Noise (Conversational Gain)

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N
EVS-WB-24.4

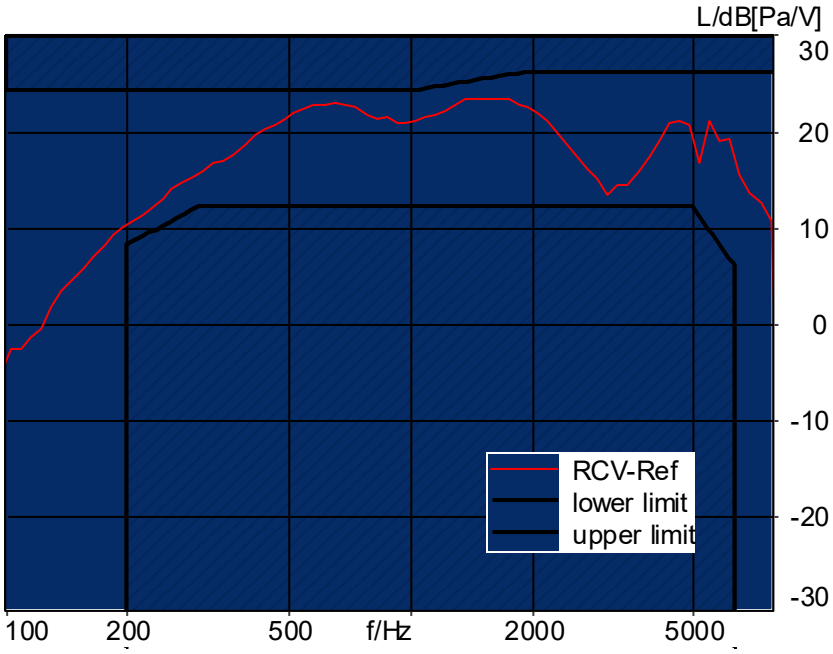
Region	Frequency	SDNR
1	250Hz	26.50 dB
2	315Hz	28.84 dB
3	400Hz	31.04 dB
4	500Hz	30.90 dB
5	630Hz	33.17 dB
6	800Hz	34.30 dB
7	1000Hz	30.58 dB
8	1250Hz	25.49 dB
9	1600Hz	36.74 dB
10	2000Hz	33.28 dB
11	2500Hz	27.23 dB
12	3150Hz	27.05 dB
13	4000Hz	28.56 dB
14	5000Hz	26.01 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 25.49dB at 1250Hz.

2026/7/6 14:05 ACQUA

5.3 Frequency Response 8N FF

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Absolute minimal distance
1.22 dB at 3058.6 Hz Ok

Ok

2026/7/6 13:38 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	333.1000 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(29#)

Measurement Object	Ti-CC26050303-N71

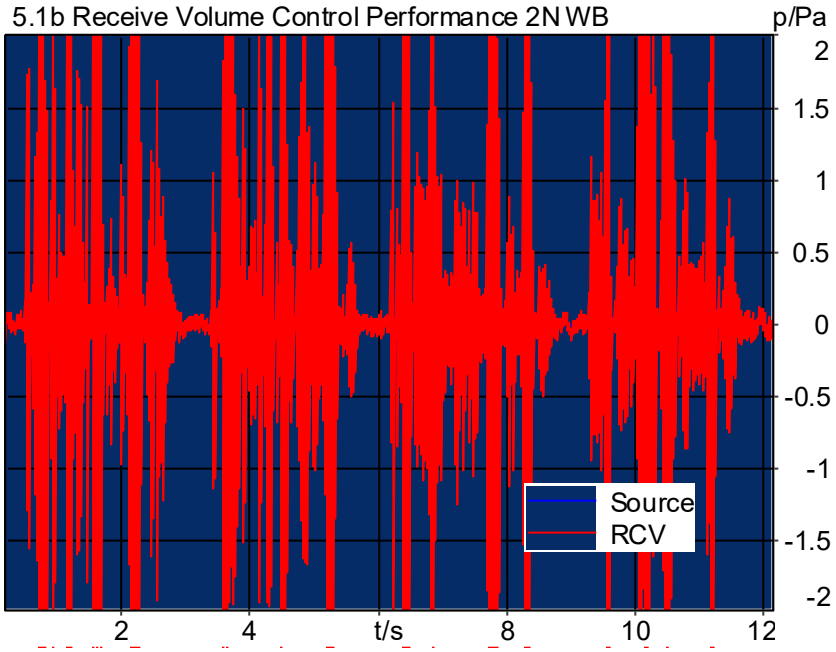
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.53	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.97	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.44	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.05	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.21	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.67	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.35	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.44	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.70	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.19	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.58	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.49	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.06	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.91	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.97	Ti-CC26050303-N71

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	1.52	Ti-CC26050303-N71

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	86.53 dB[SPL]	84.01%	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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

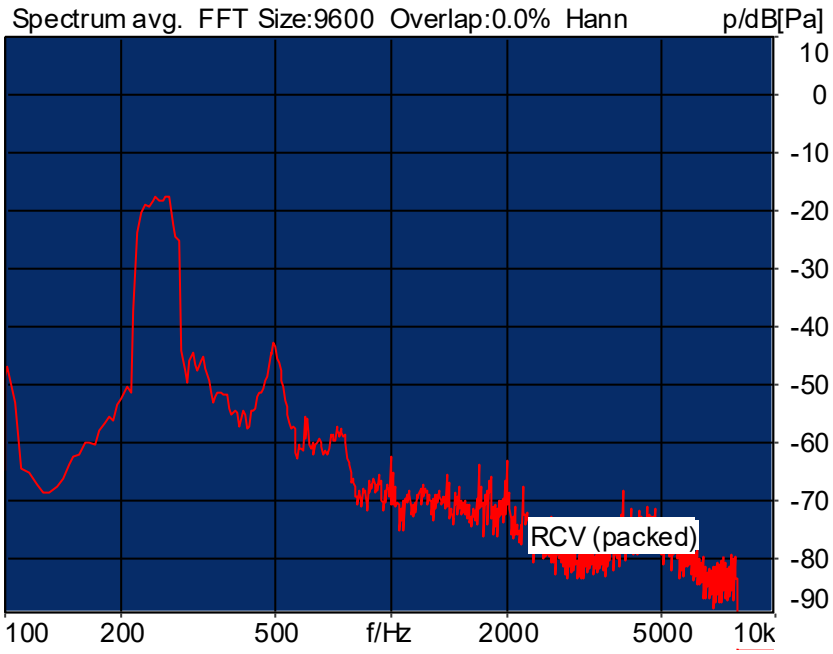
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.97 dB (4.48%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

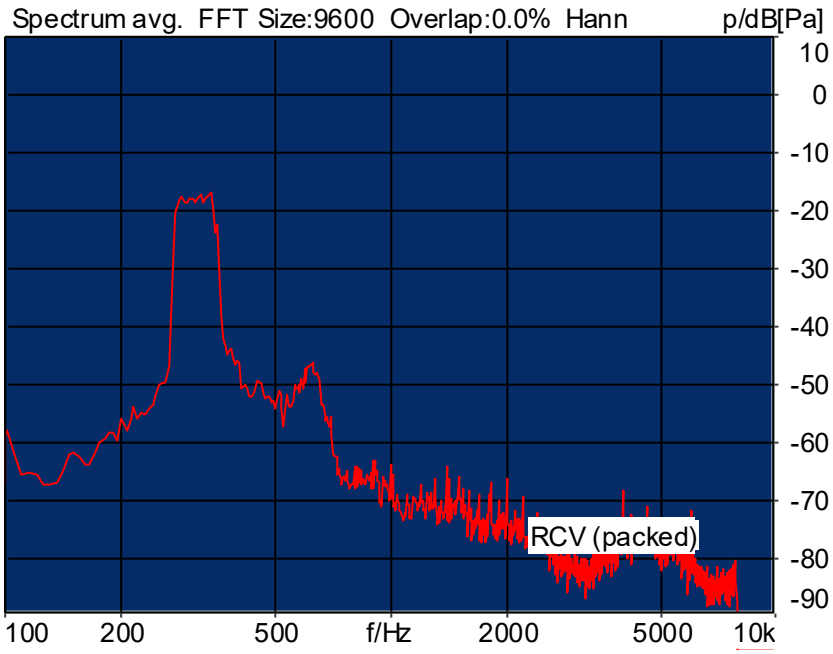
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.44 dB (3.79%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

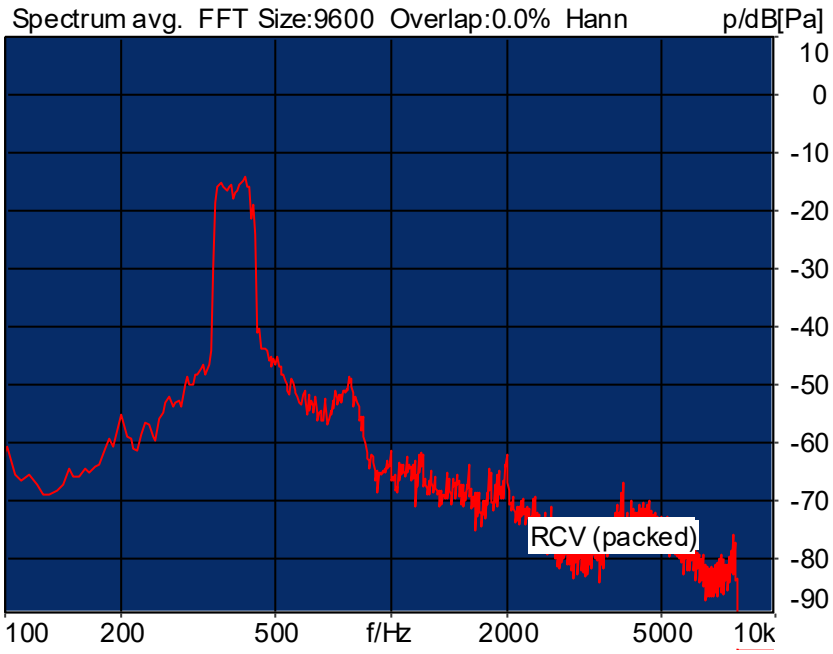
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.05 dB (3.14%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

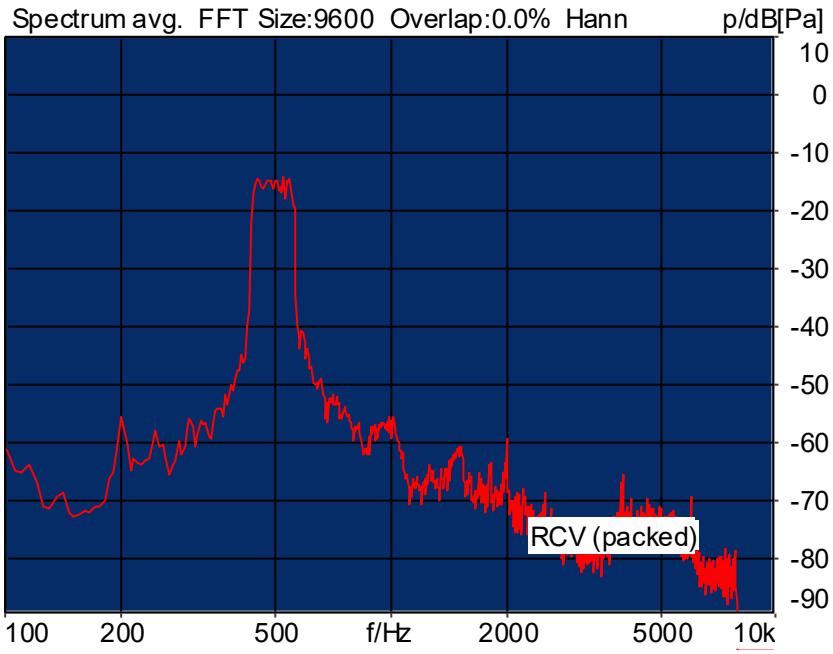
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.21 dB (2.45%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

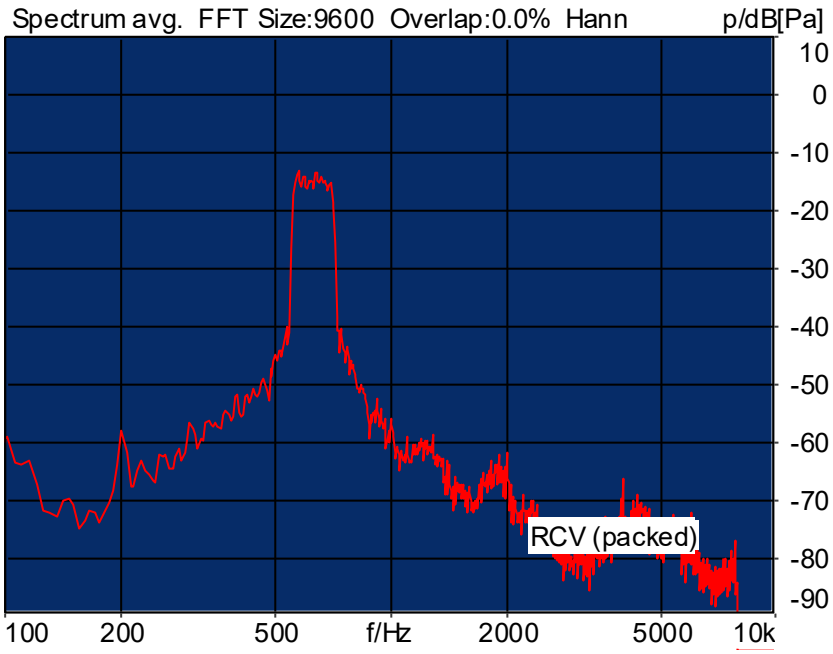
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.67 dB (2.61%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

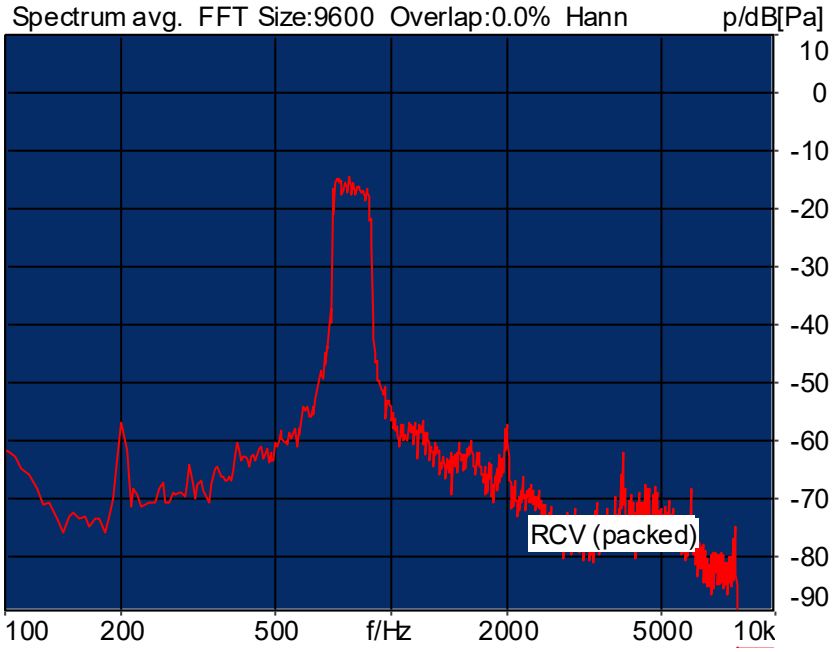
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.35 dB (2.15%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

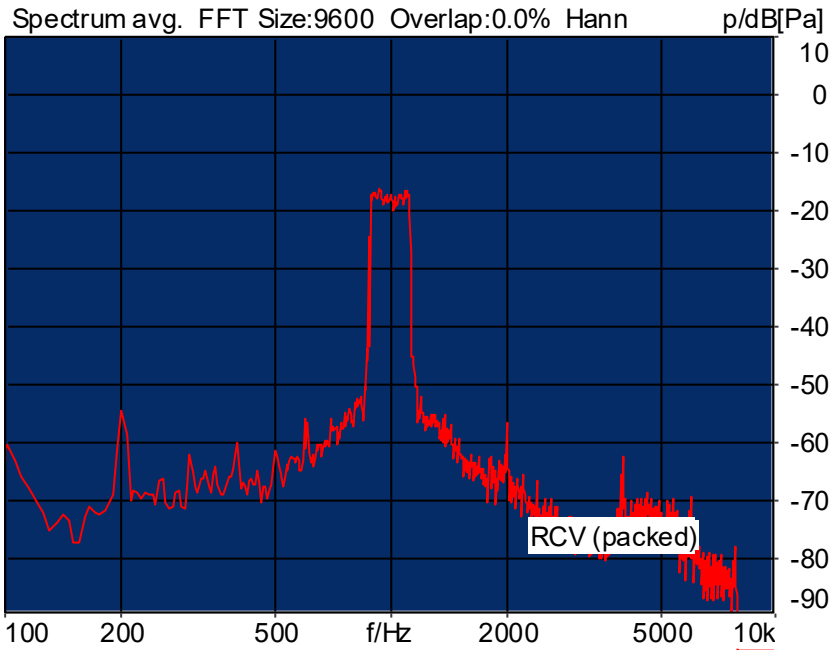
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.44 dB (2.13%) 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_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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

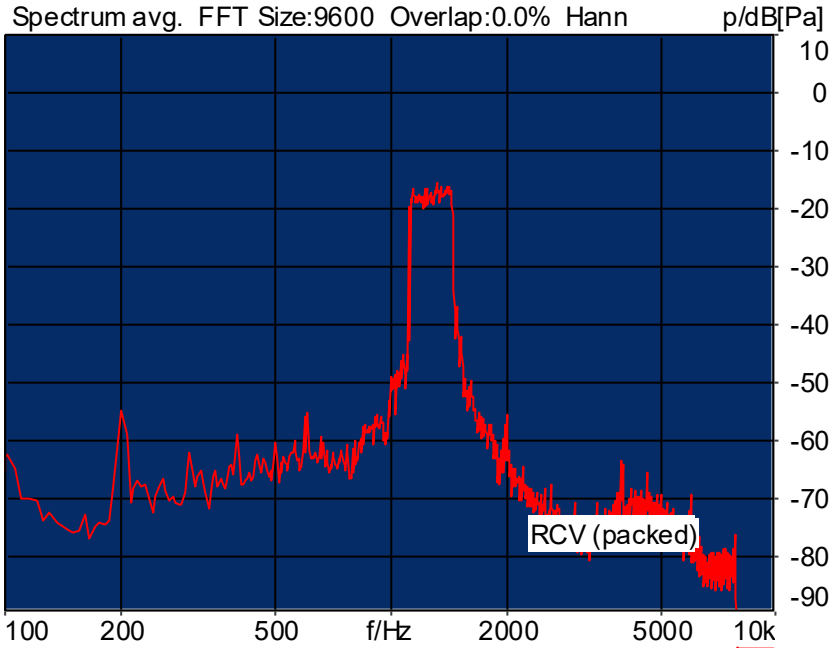
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.70 dB (4.62%) 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_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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

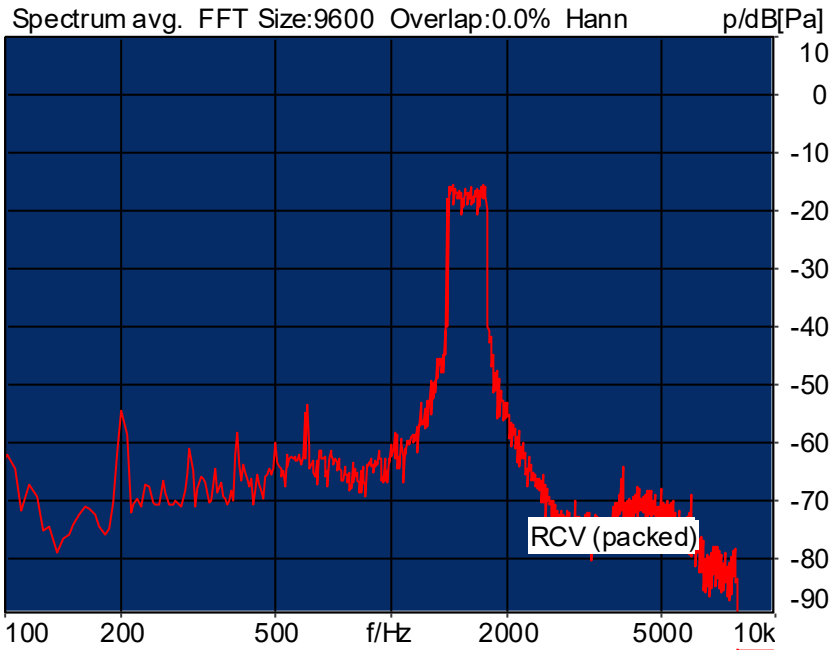
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.19 dB (2.76%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

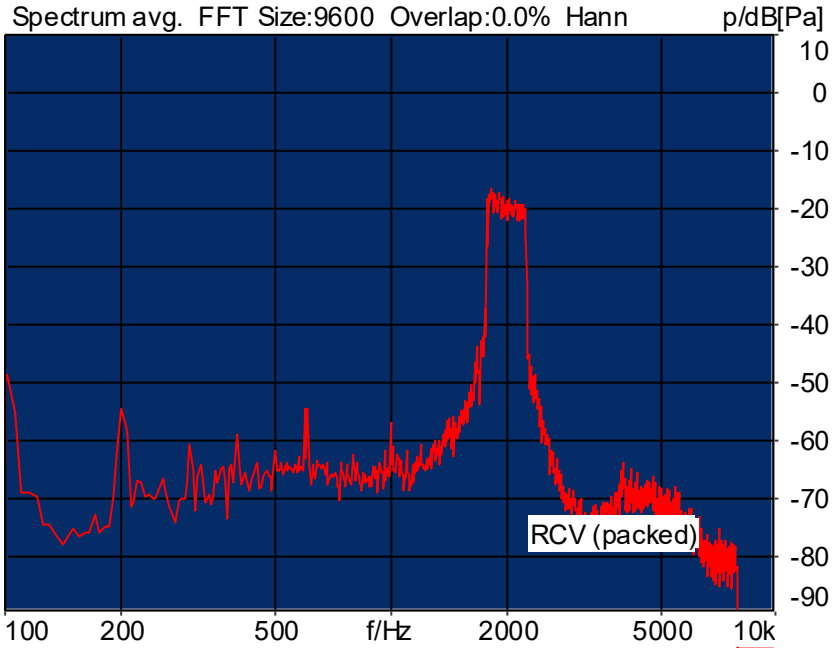
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.58 dB (3.73%) Ok

Ok

2026/6/22 10:59 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

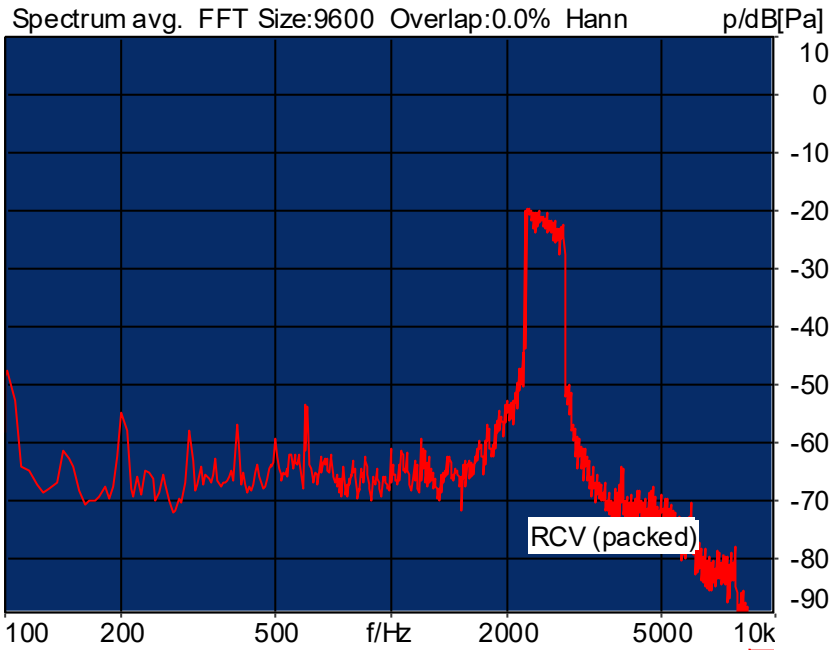
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.49 dB (3.35%) Ok

Ok

2026/6/22 10:59 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

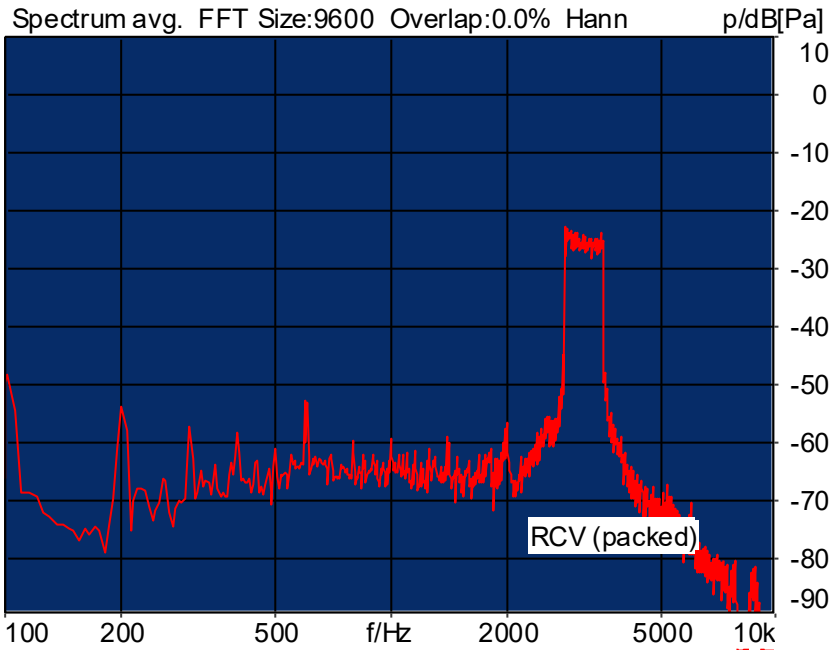
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.06 dB (3.95%) Ok

Ok

2026/6/22 11:00 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_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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

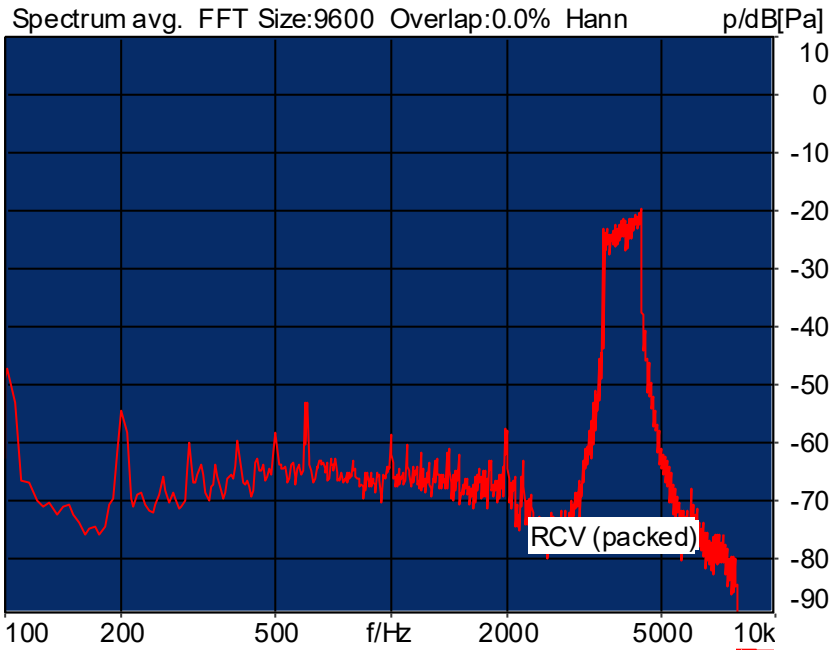
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 25.91 dB (5.06%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

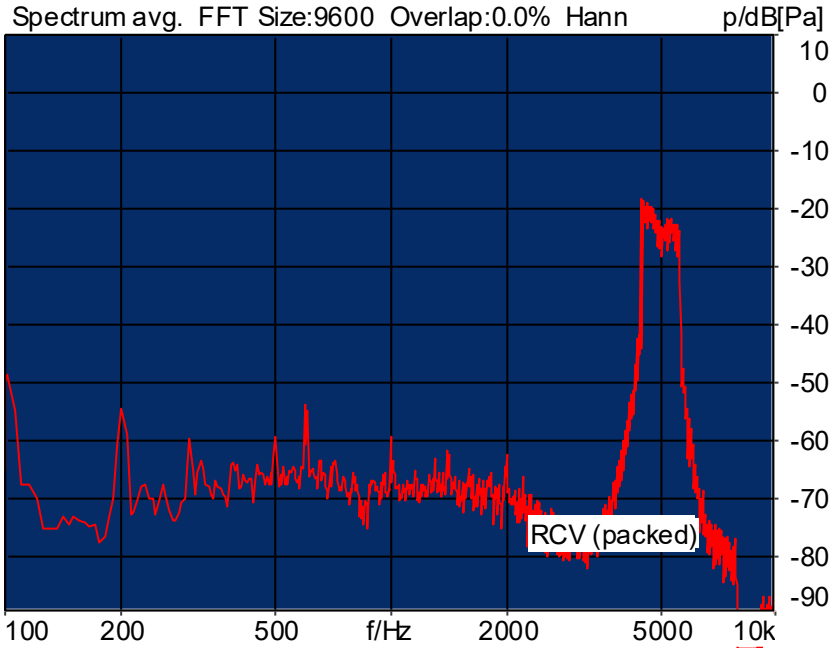
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.97 dB (3.56%) 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	170.1000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

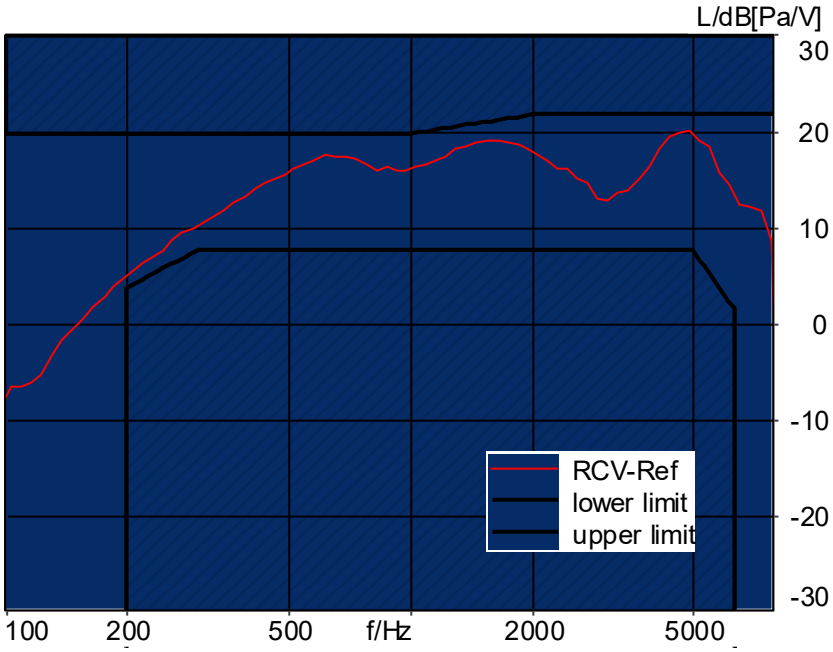
Used Setting	TIA5050

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
1.52 dB at 205.7 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	170.1000 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(30#)

Measurement Object	Ti-CC26050303-N71

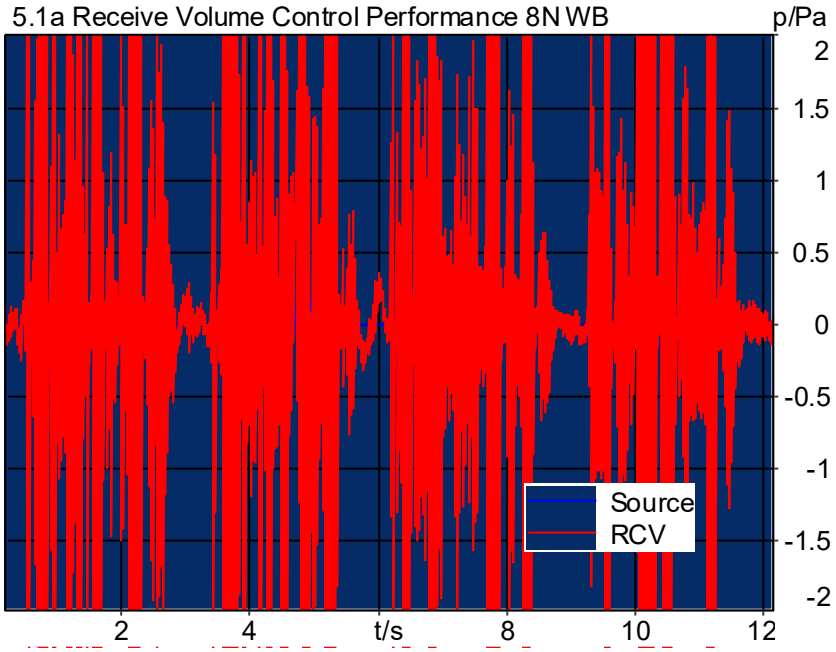
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.56	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.48	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.06	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.71	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.02	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.36	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.62	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.60	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.08	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.96	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.81	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.51	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.88	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.17	Ti-CC26050303-N71
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.10	Ti-CC26050303-N71

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.72	Ti-CC26050303-N71

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.56 dB[SPL]	82.88%	Ok

Ok

2026/6/22 12:08 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

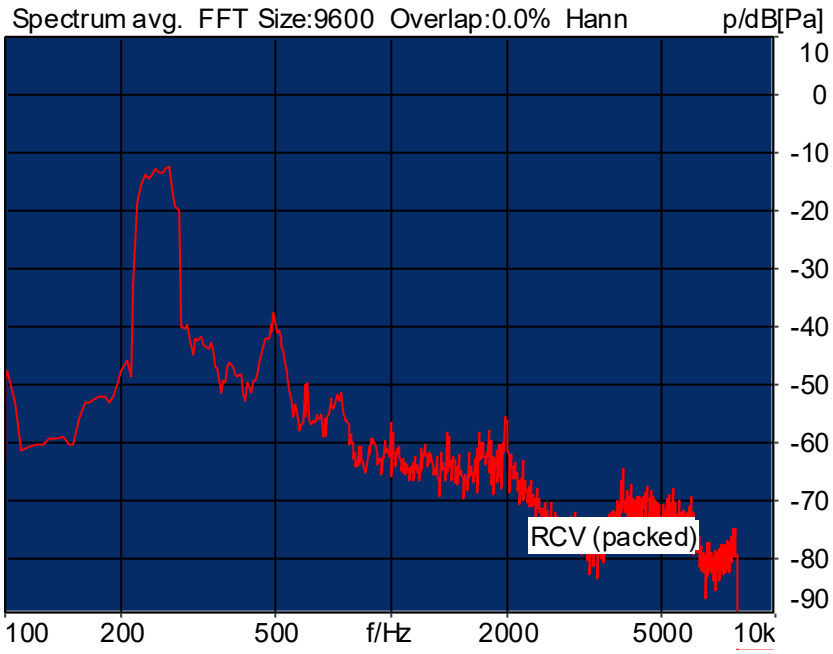
Used Setting	TIA5050

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



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

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

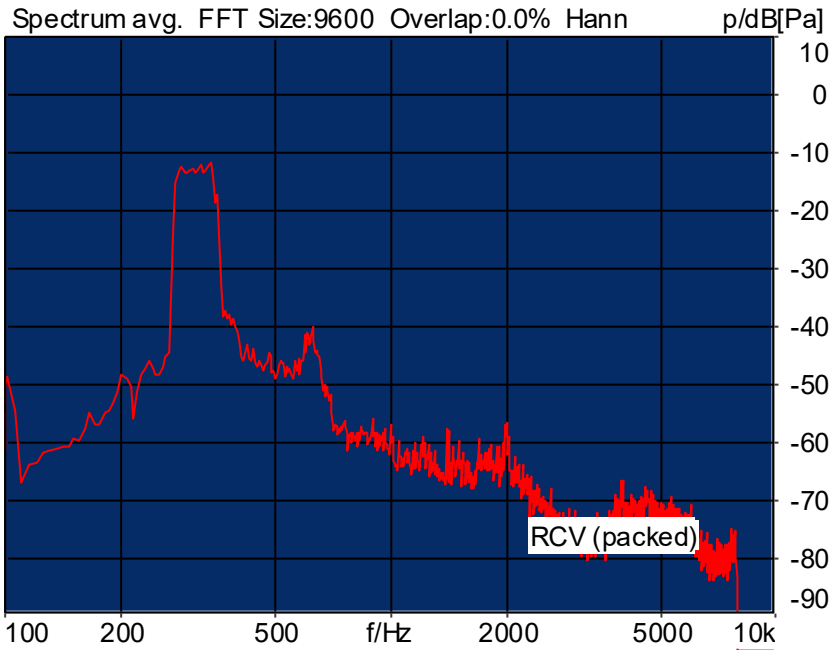
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.06 dB (3.95%) 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_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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

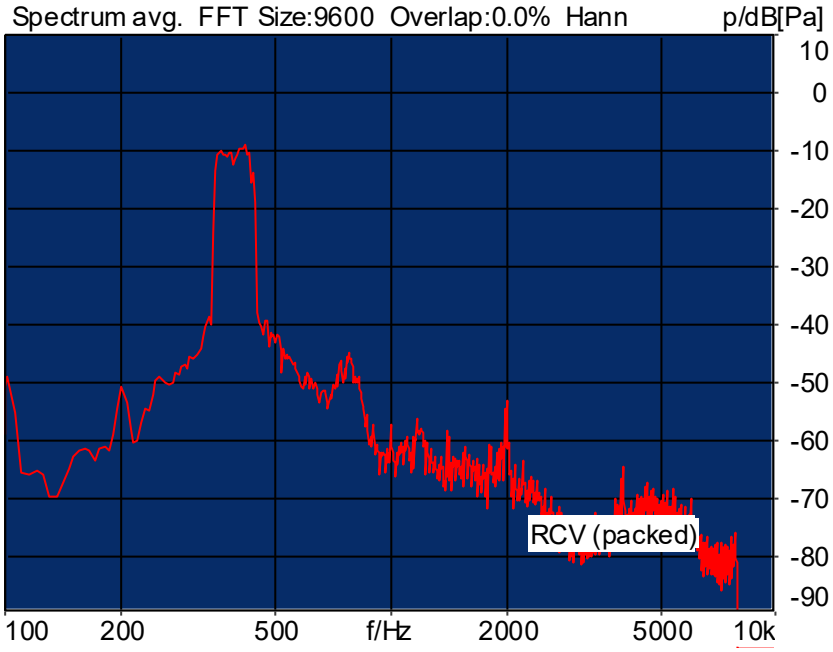
Used Setting	TIA5050

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



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

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

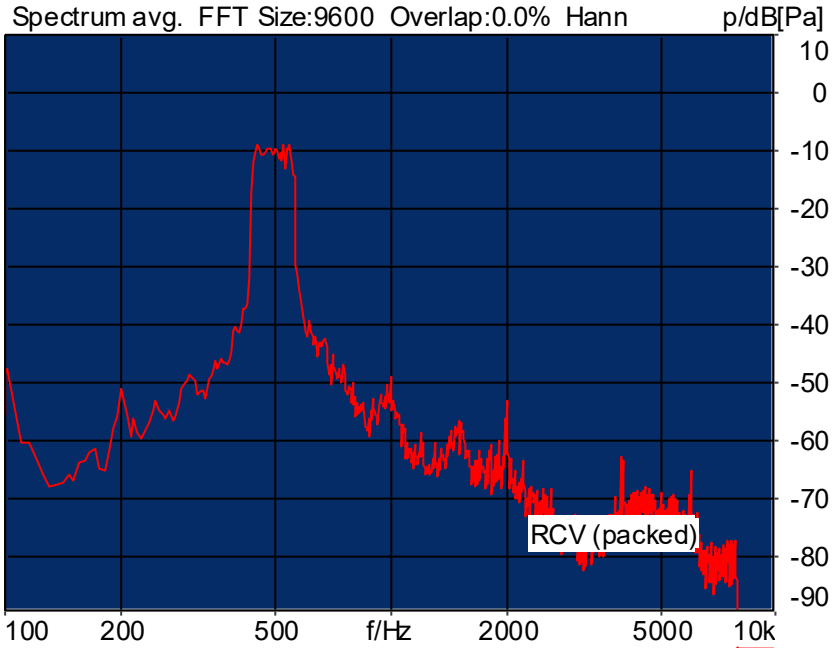
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.02 dB (2.50%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

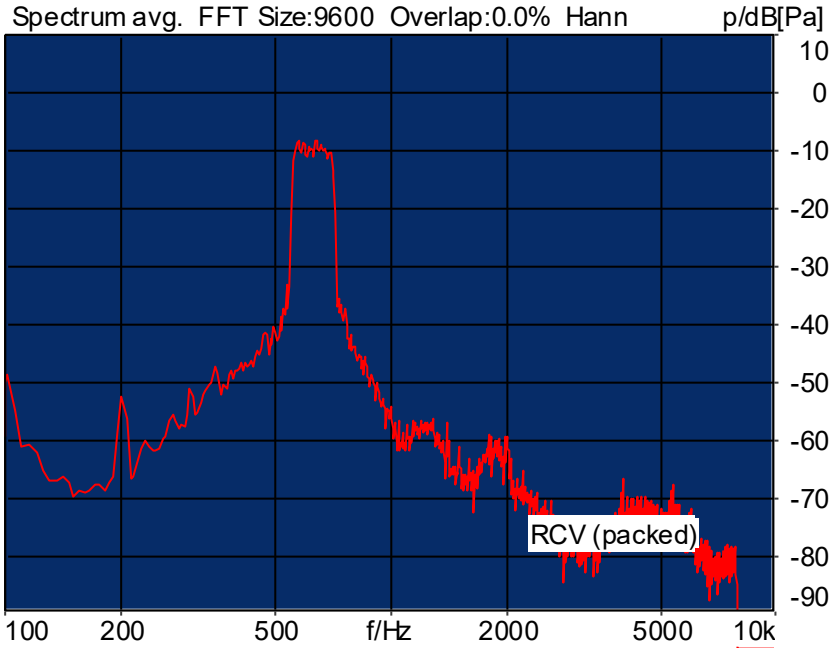
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.36 dB (2.41%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

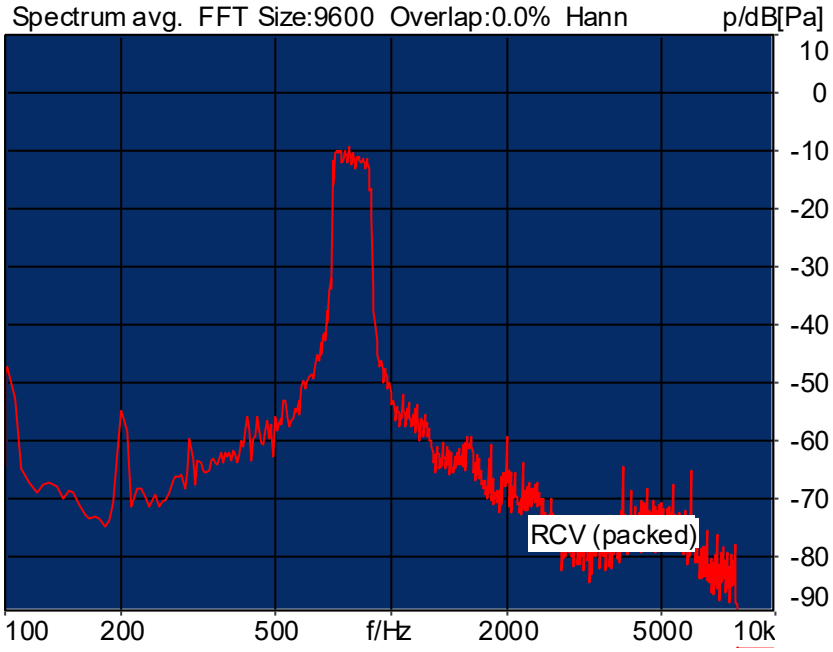
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 35.62 dB (1.65%) Ok

Ok

2026/6/22 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_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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

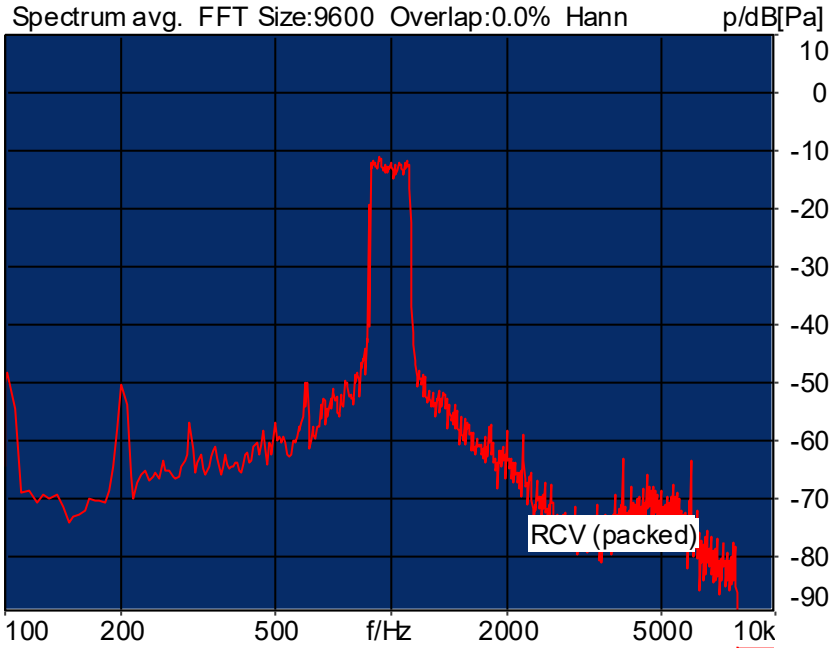
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.60 dB (1.86%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

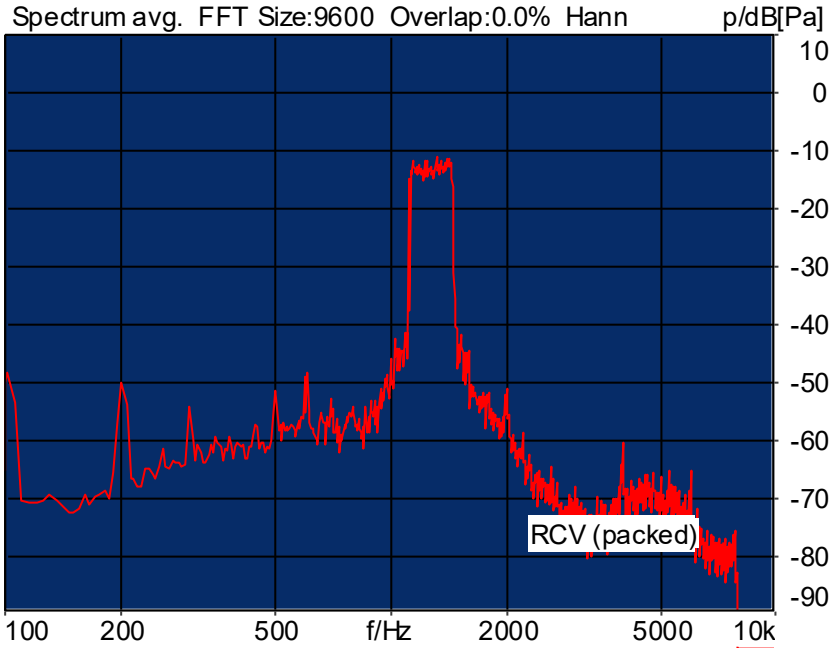
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.08 dB (3.52%) Ok

Ok

2026/6/22 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_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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

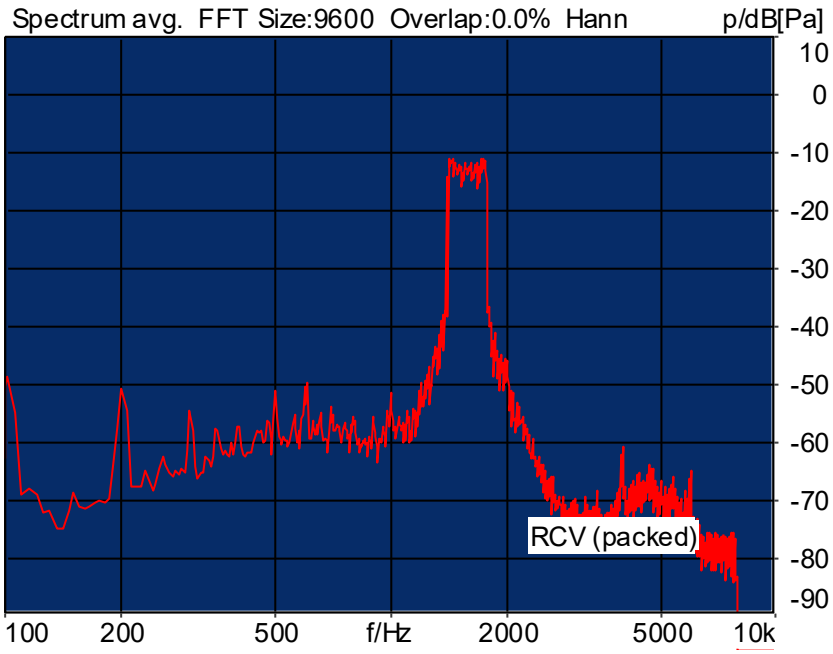
Used Setting	TIA5050

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): 30.96 dB (2.83%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

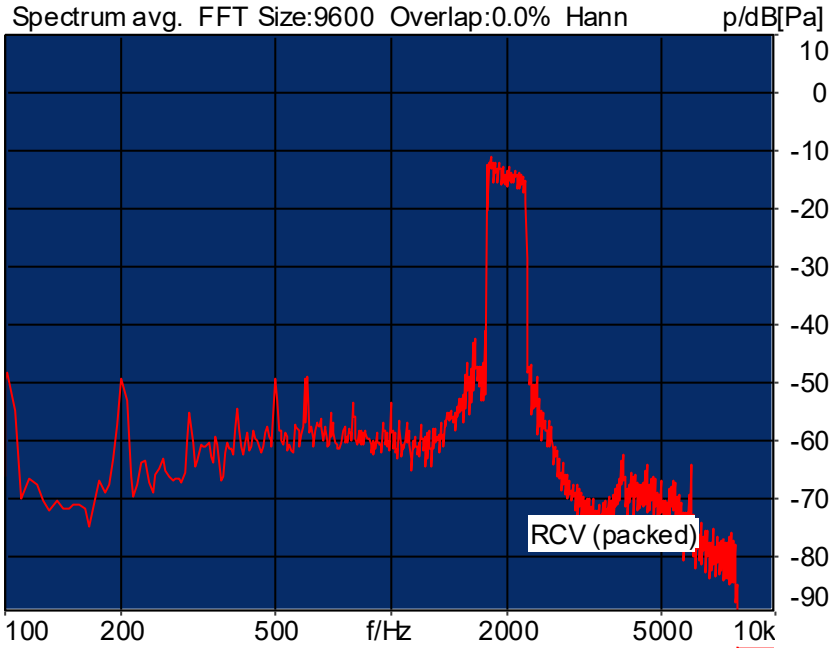
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 33.81 dB (2.04%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

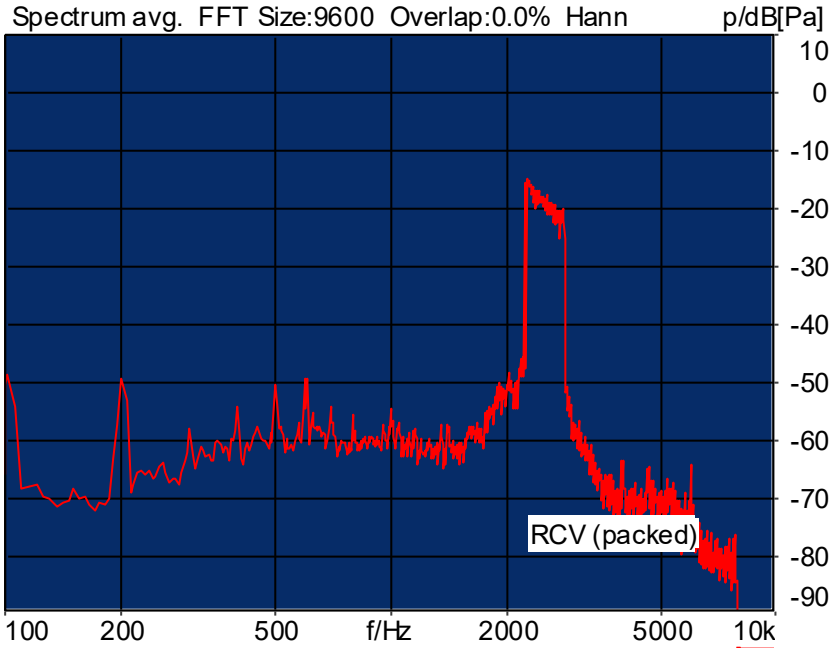
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.51 dB (2.98%) Ok

Ok

2026/6/22 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_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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

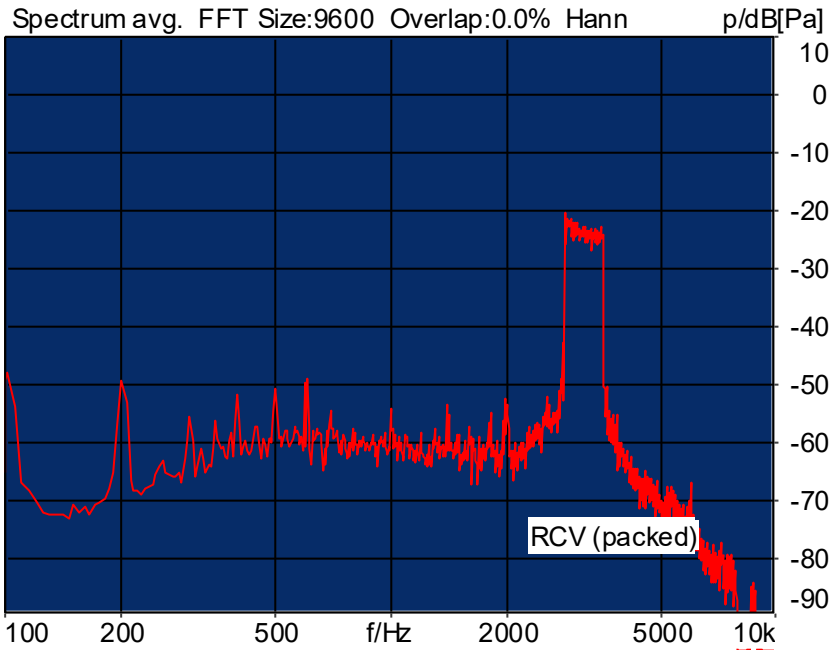
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.88 dB (4.03%) Ok

Ok

2026/6/22 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_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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

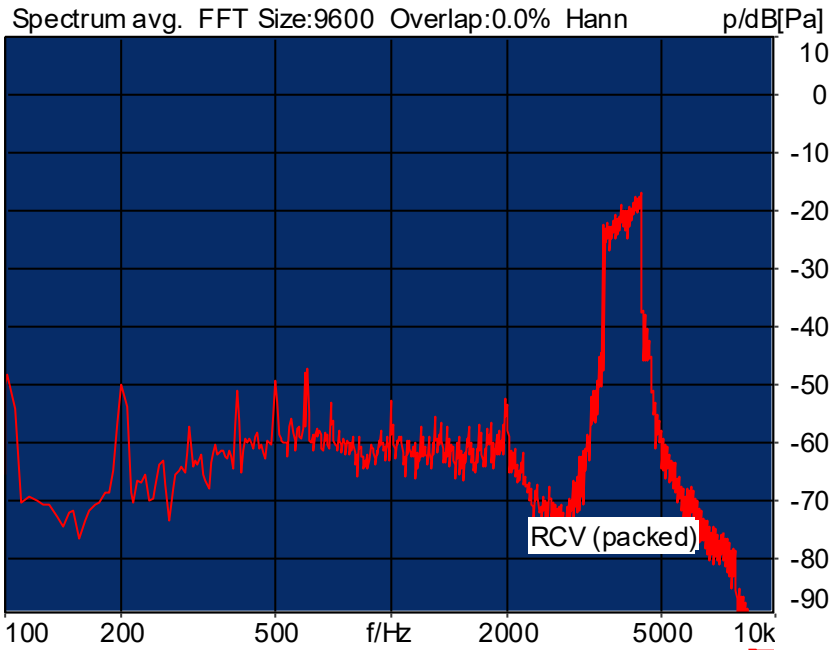
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 25.17 dB (5.52%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

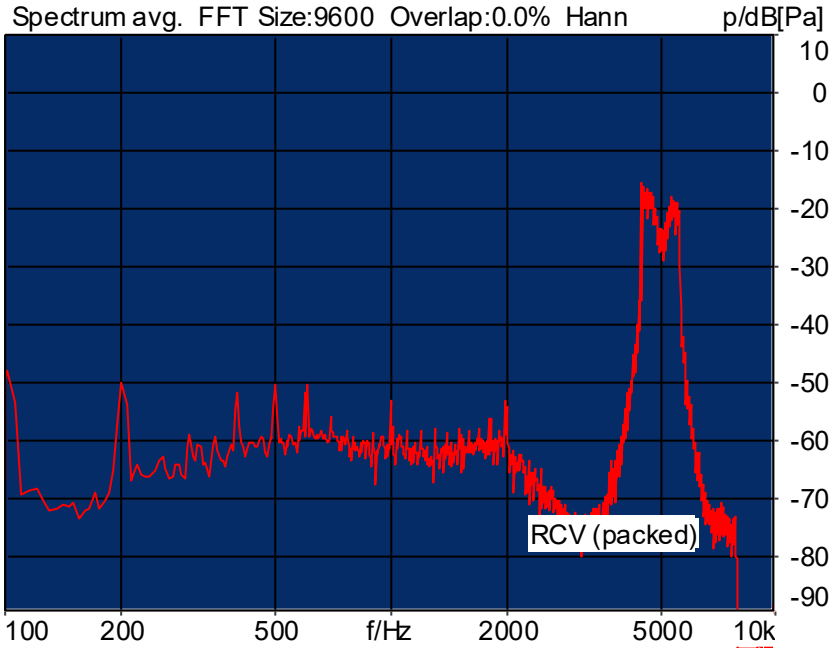
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.10 dB (4.95%) Ok

Ok

2026/6/22 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	140.7000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

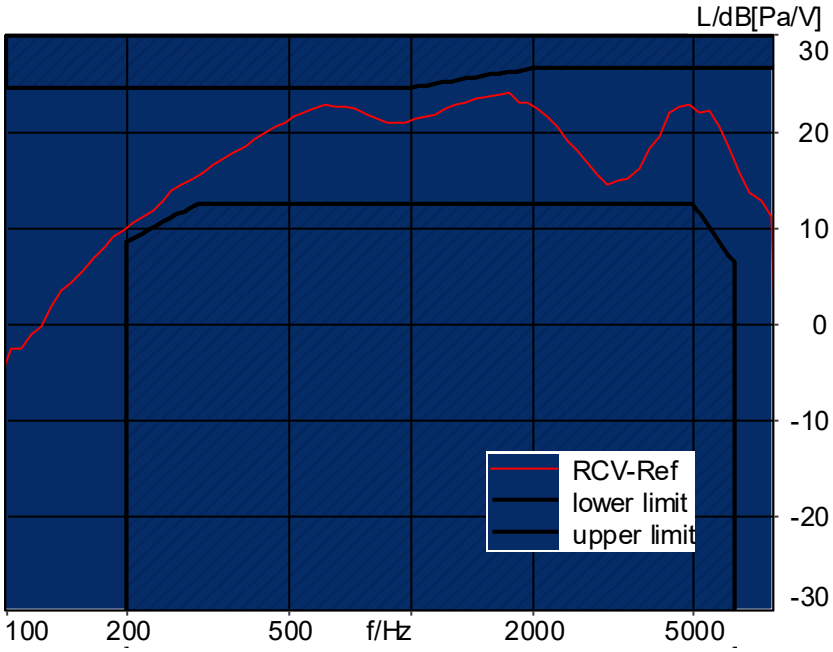
Used Setting	TIA5050

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
1.72 dB at 611.7 Hz Ok

Ok

2026/6/22 12:14 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	140.7000 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

Measurement Protocol(31#)

Measurement Object	Ti-CC26050303-n77

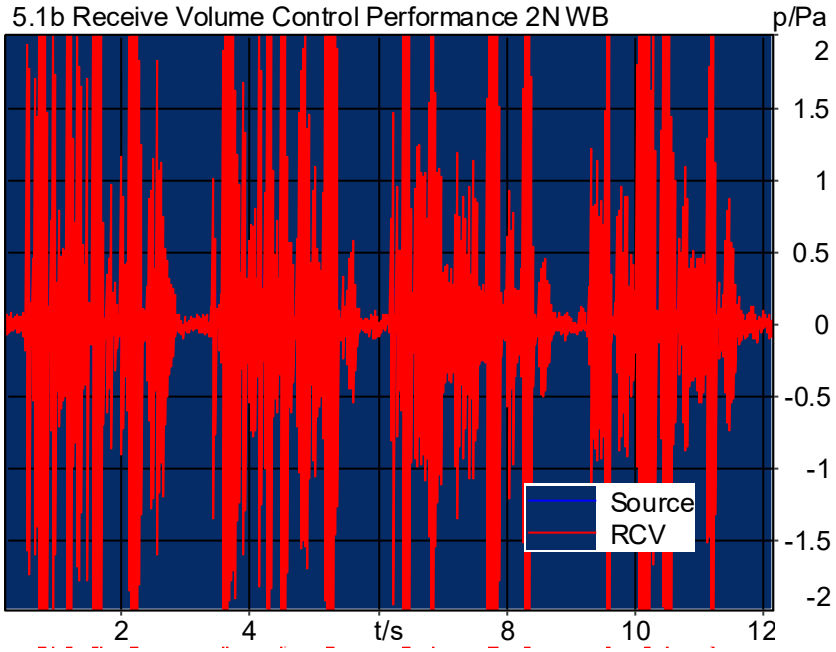
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	86.80	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.02	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.68	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.49	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.82	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.43	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.16	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.63	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.68	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.31	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.23	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.35	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.18	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.45	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.25	Ti-CC26050303-n77

5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.50	Ti-CC26050303-n77

5.1b Receive Volume Control Performance 2N WB

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



Channel	Speech level	Activity	
RCV	86.80 dB[SPL]	84.24%	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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

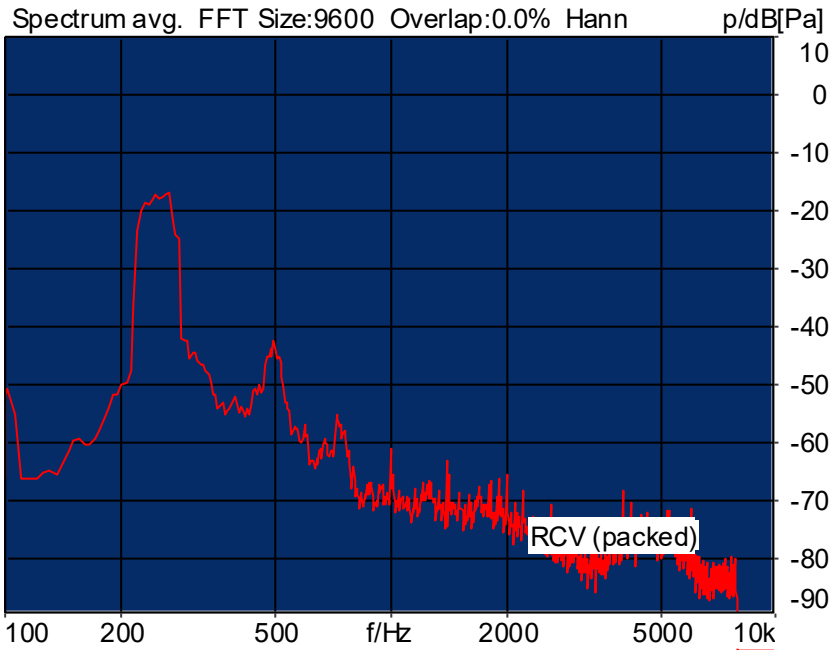
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.02 dB (4.46%) 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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

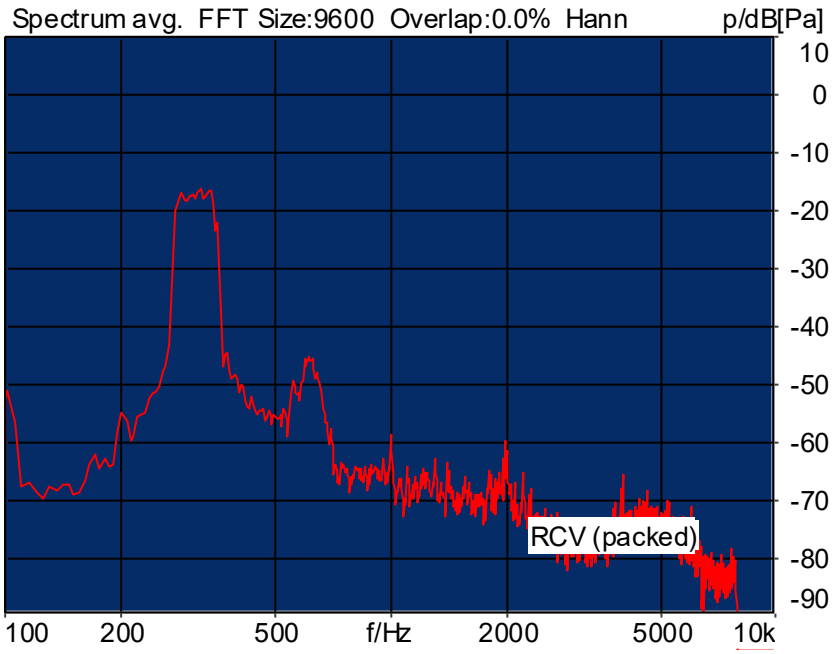
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.68 dB (3.68%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

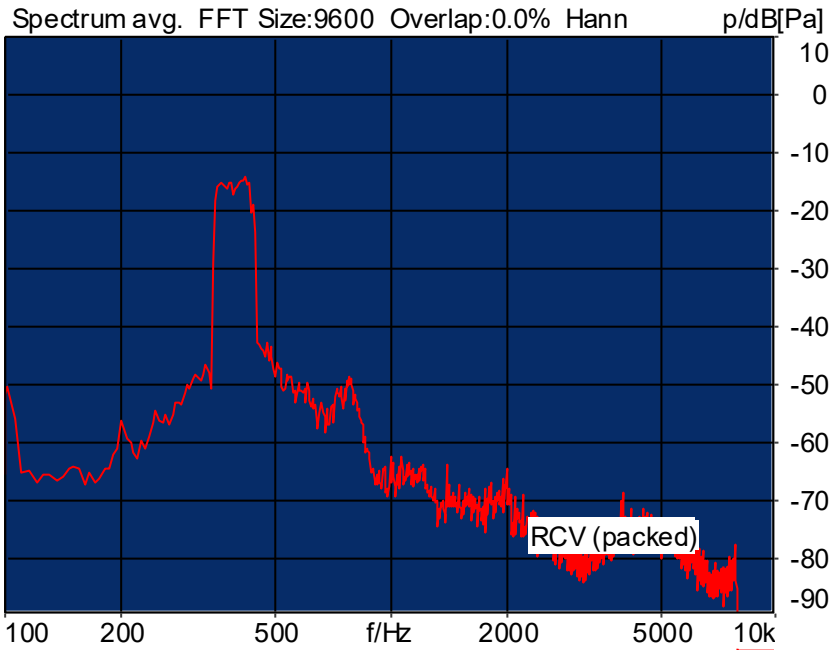
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.49 dB (2.99%) 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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

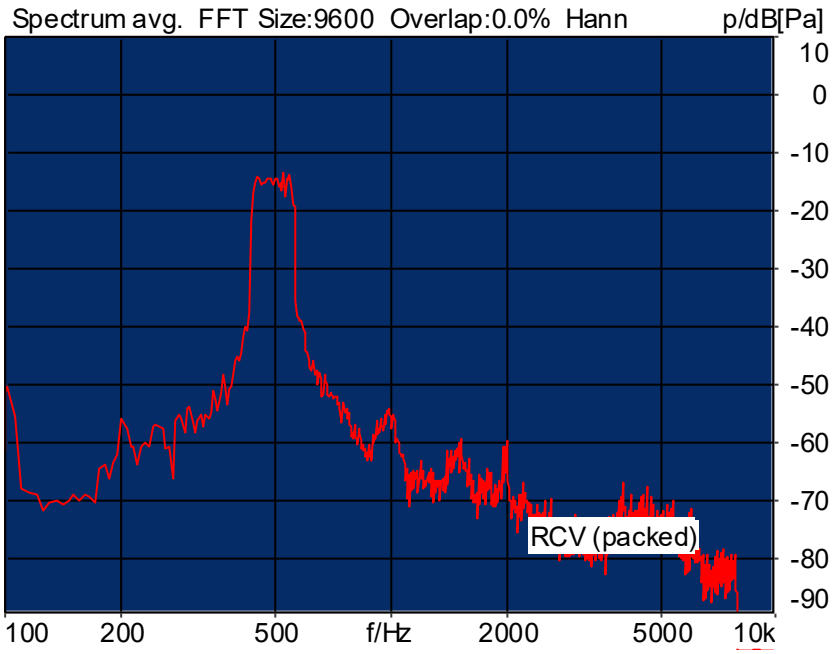
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.82 dB (2.56%) 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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

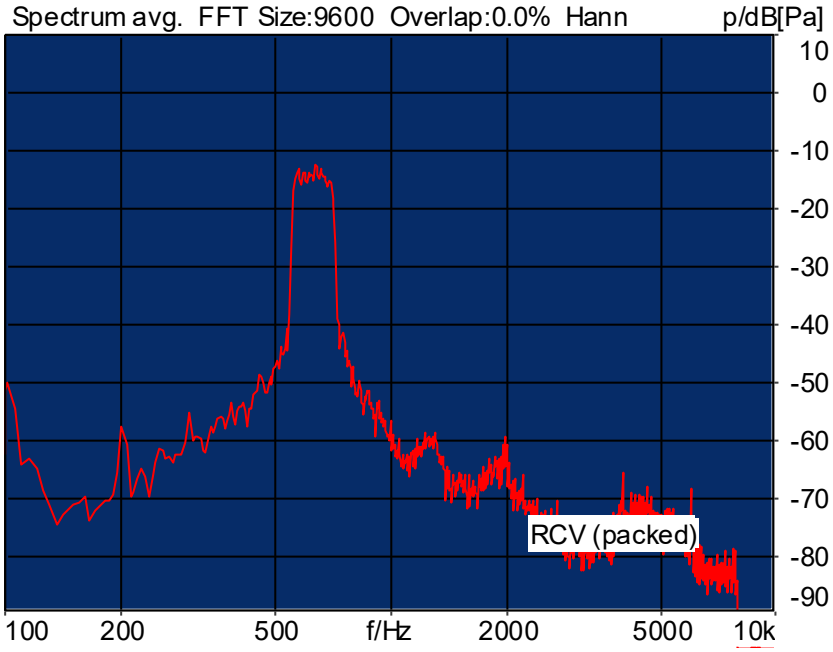
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.43 dB (2.39%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

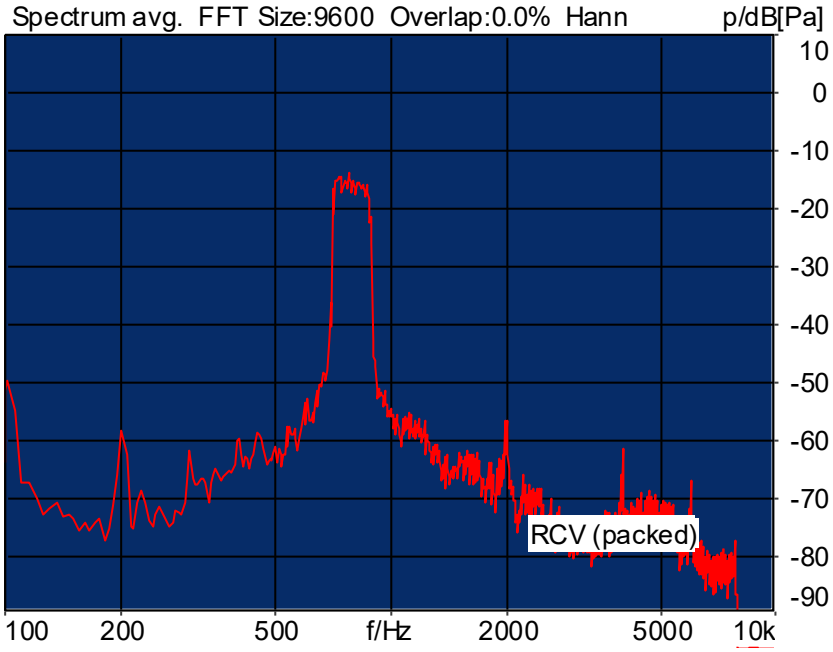
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.16 dB (1.96%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

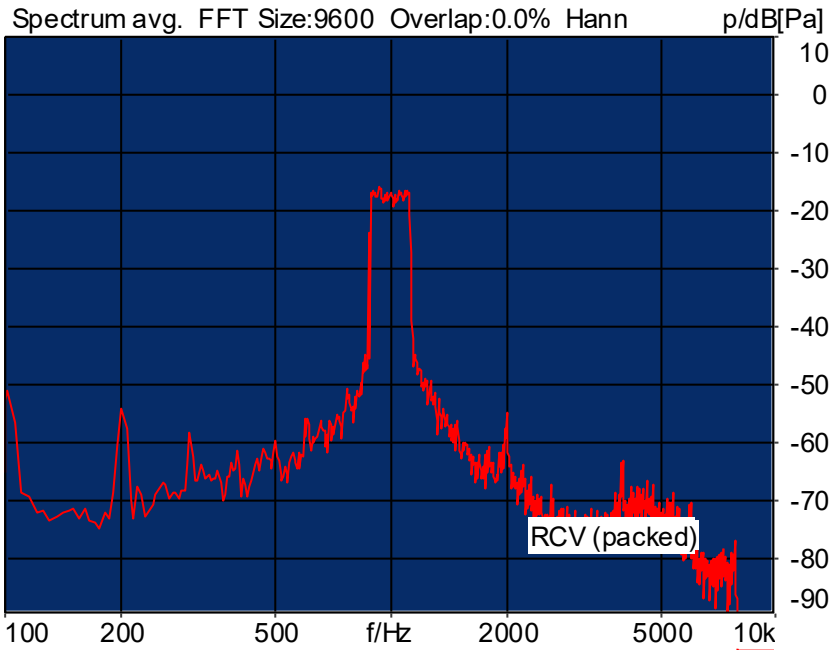
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.63 dB (2.94%) 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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

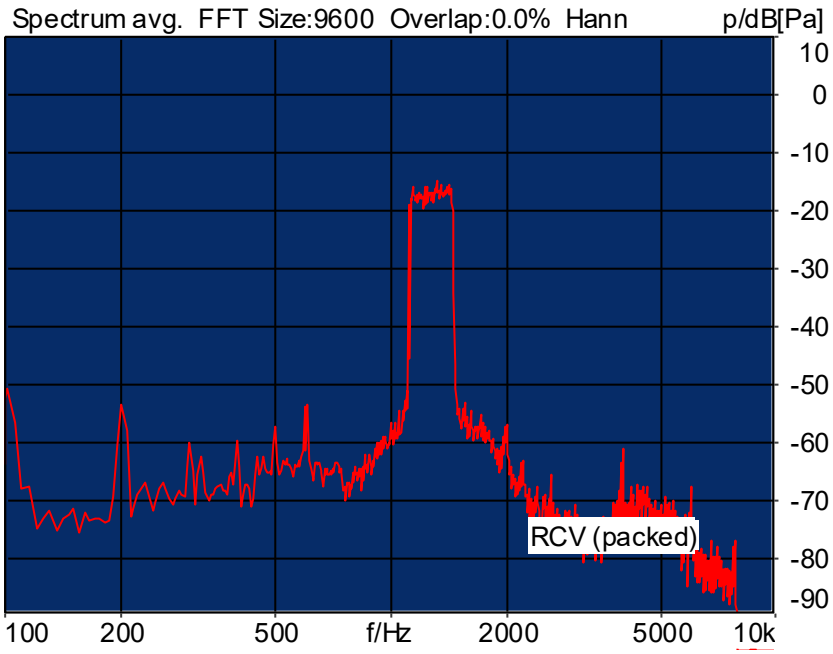
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.68 dB (2.61%) 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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

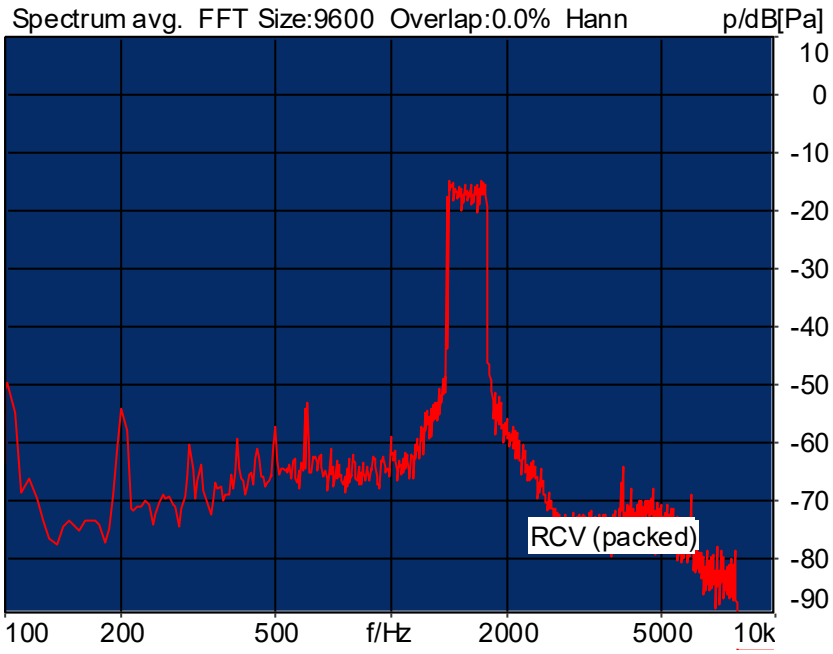
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 35.31 dB (1.72%) Ok

Ok

2026/6/22 12:54 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

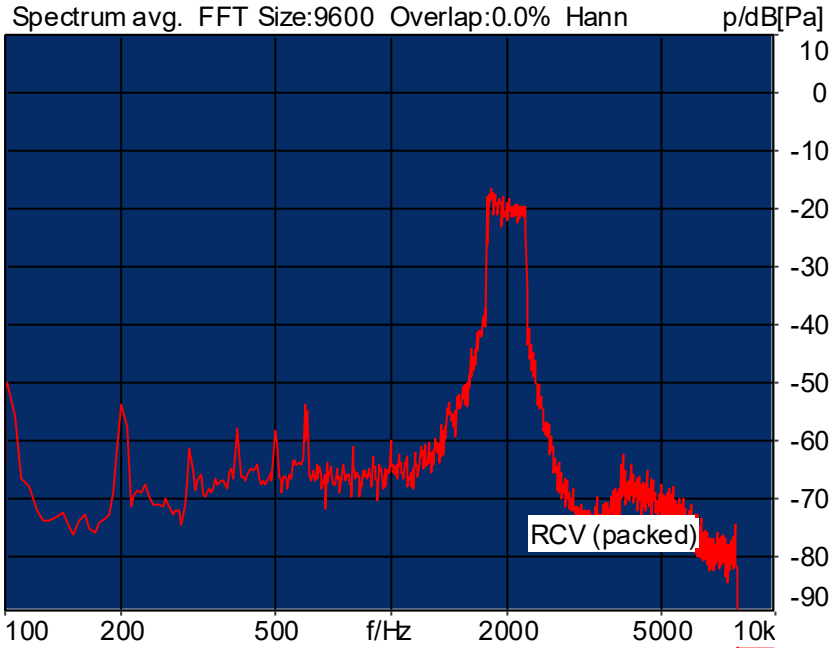
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 25.23 dB (5.47%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

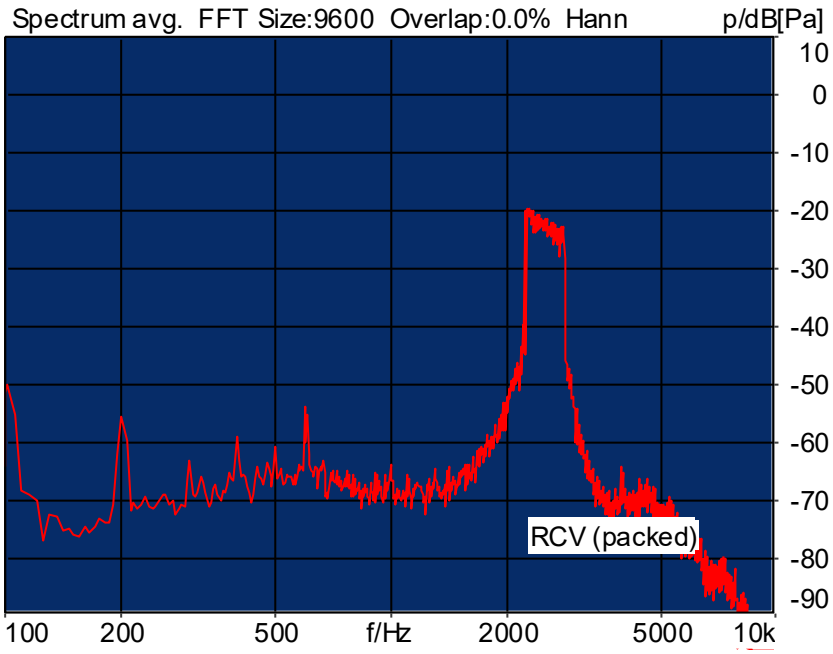
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.35 dB (4.81%) 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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

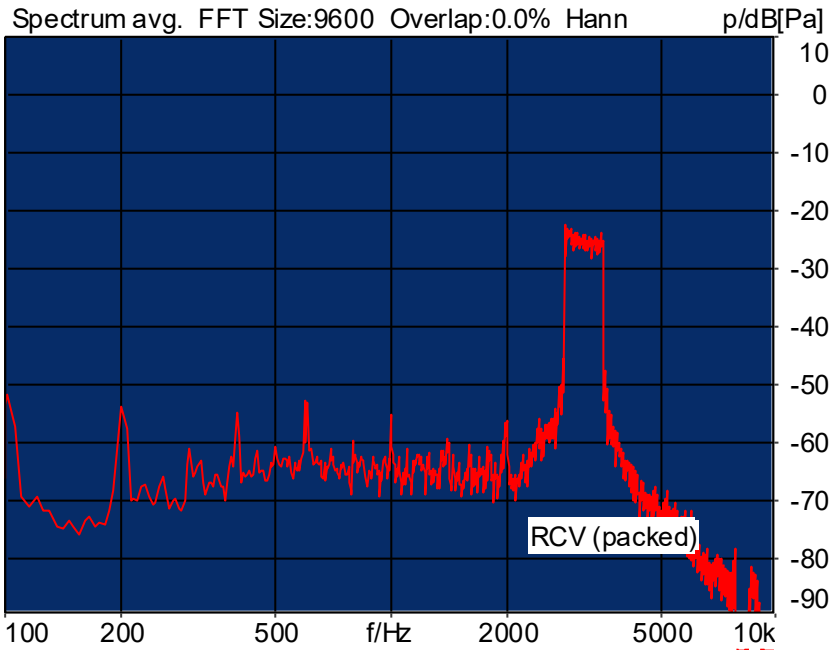
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.18 dB (3.90%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

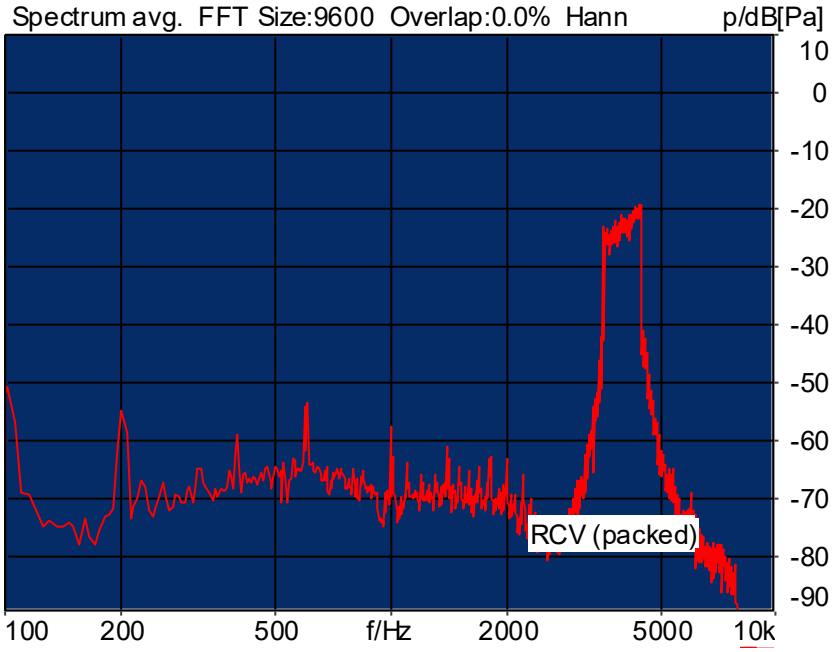
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 27.45 dB (4.24%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

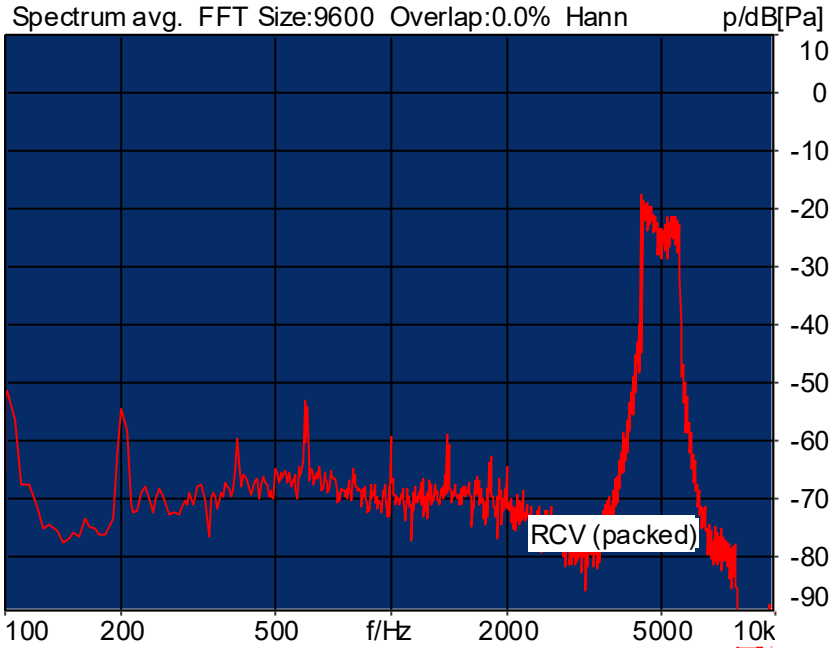
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.25 dB (3.87%) 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_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	162.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

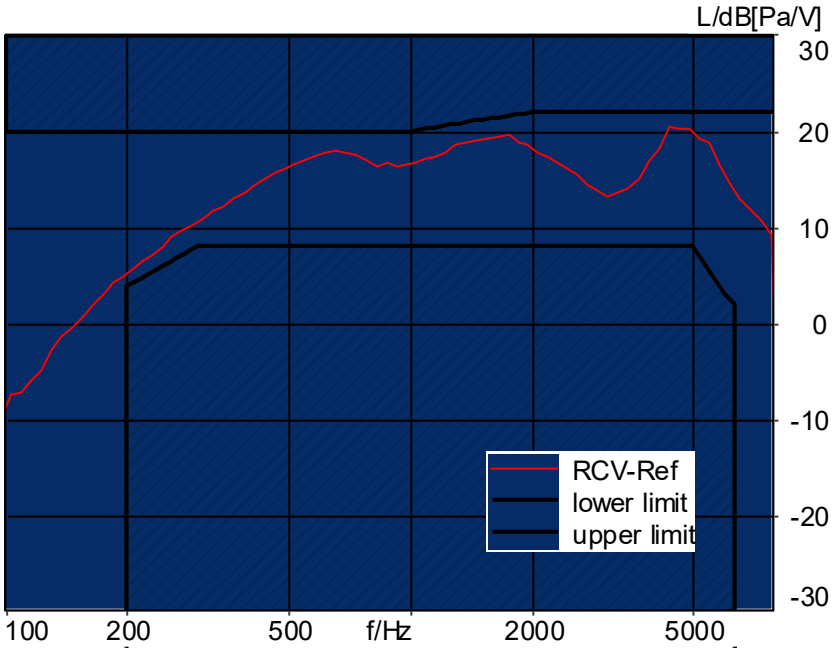
Used Setting	TIA5050

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
1.50 dB at 4369.4 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	162.6000 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

Measurement Protocol(32#)

Measurement Object	Ti-CC26050303-n77

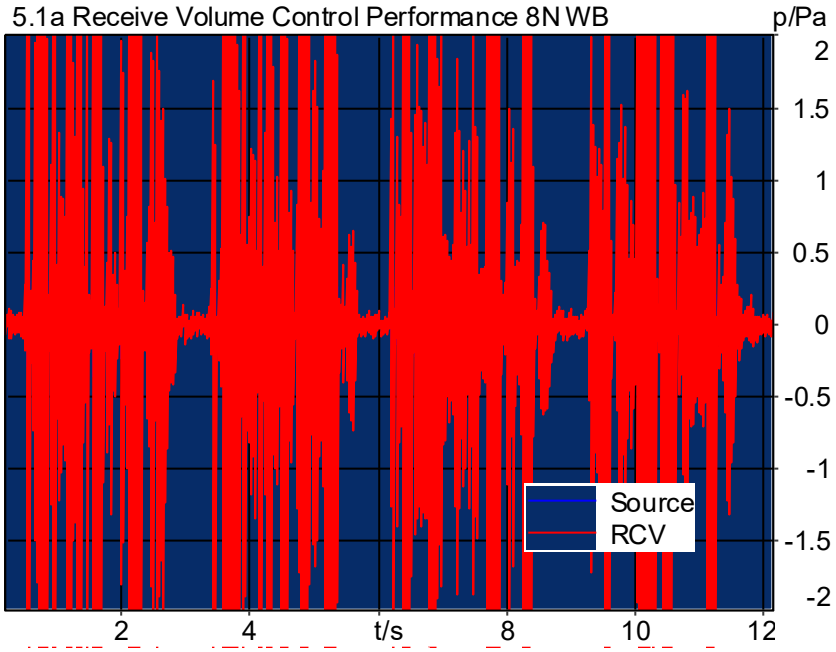
Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.62	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.17	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.43	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.47	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.17	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.90	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.79	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.51	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.15	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.23	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.48	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.93	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.36	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.91	Ti-CC26050303-n77
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.71	Ti-CC26050303-n77

5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.75	Ti-CC26050303-n77

5.1a Receive Volume Control Performance 8N WB

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



Channel	Speech level	Activity	
RCV	91.62 dB[SPL]	82.01%	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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

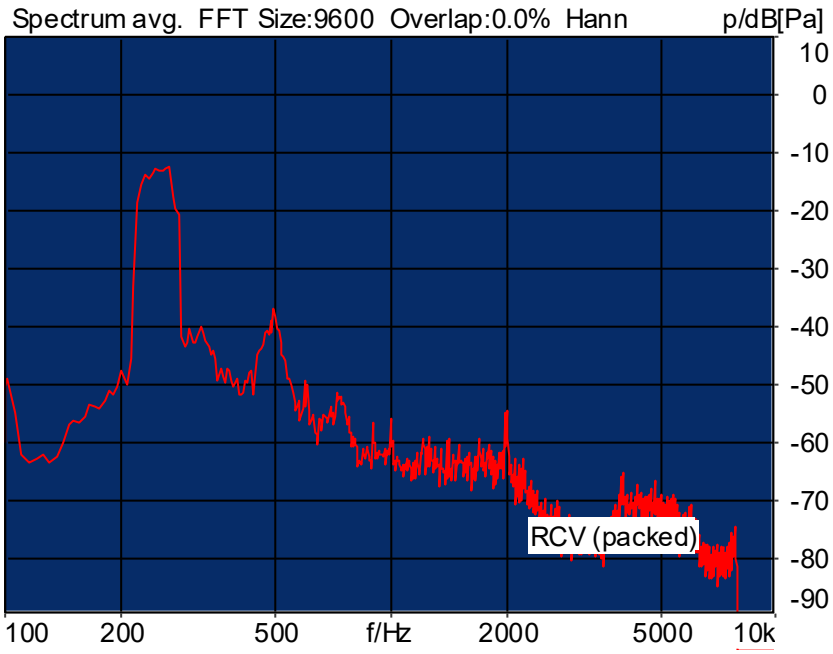
Used Setting	TIA5050

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 8N



Distortion (Noise) RCV (packed): 26.17 dB (4.91%) 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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

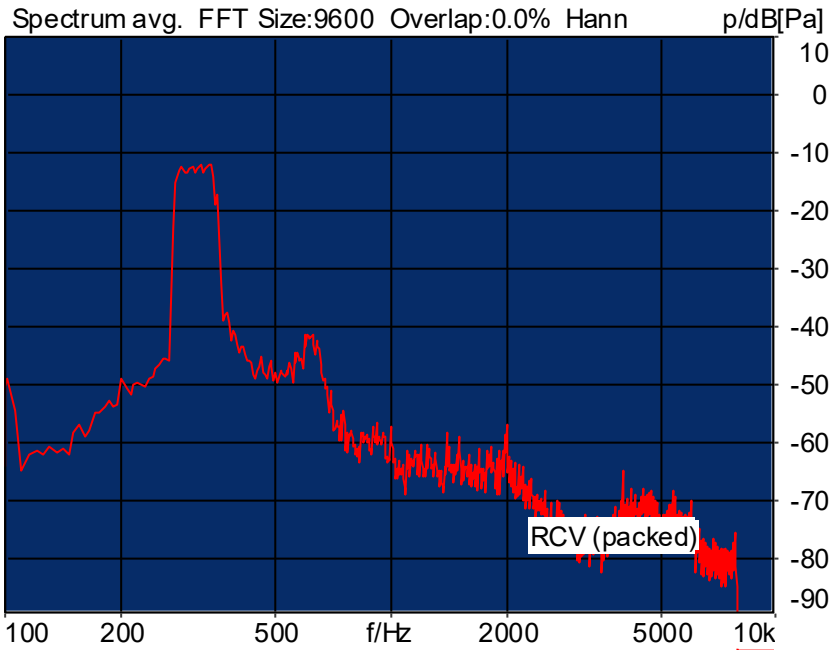
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 28.43 dB (3.79%) 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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

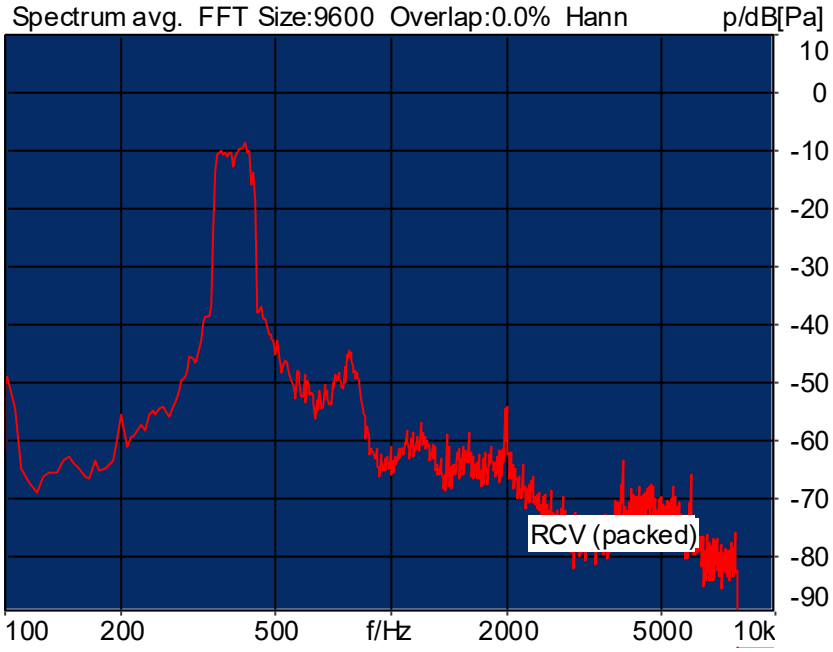
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.47 dB (2.38%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

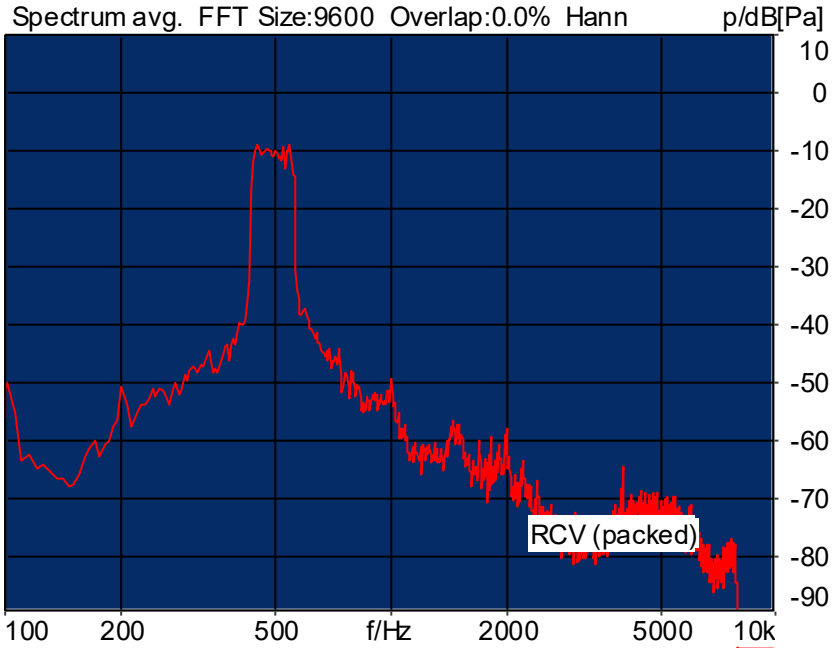
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 31.17 dB (2.76%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

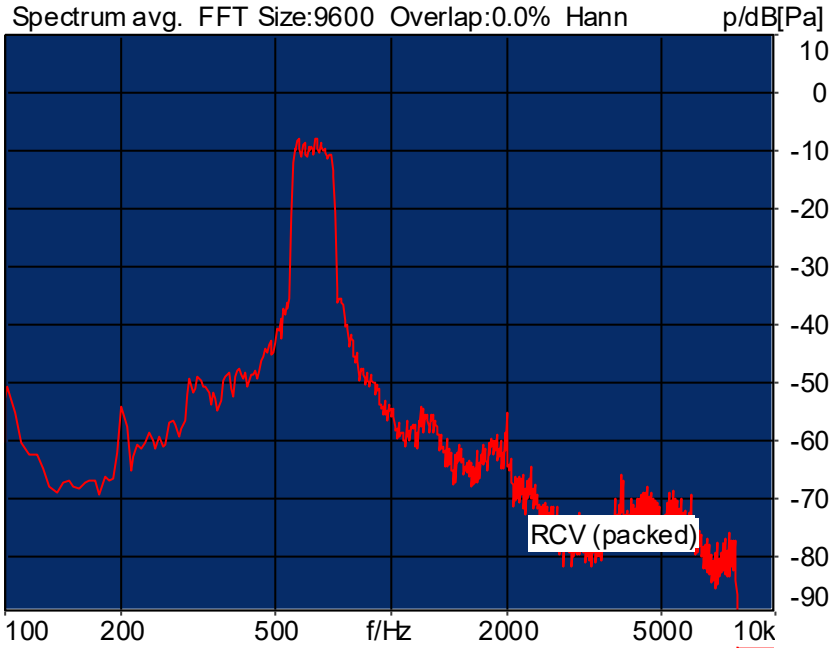
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.90 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

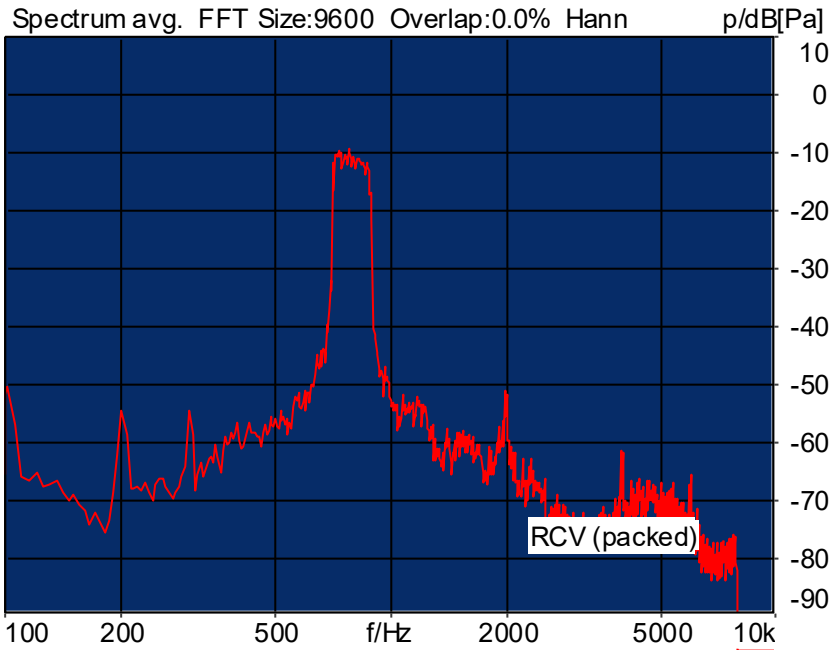
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 34.79 dB (1.82%) 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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

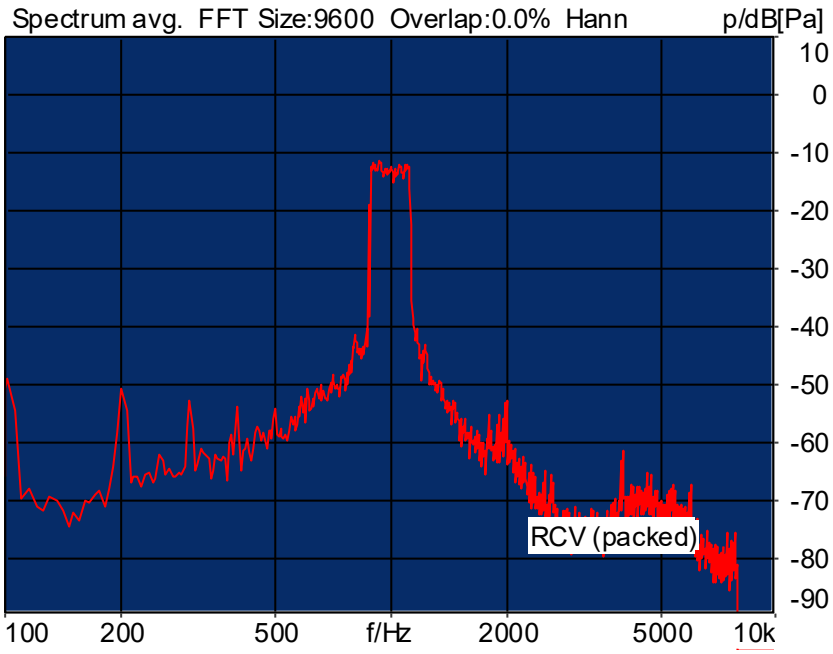
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 30.51 dB (2.98%) Ok

Ok

2026/6/22 12:45 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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

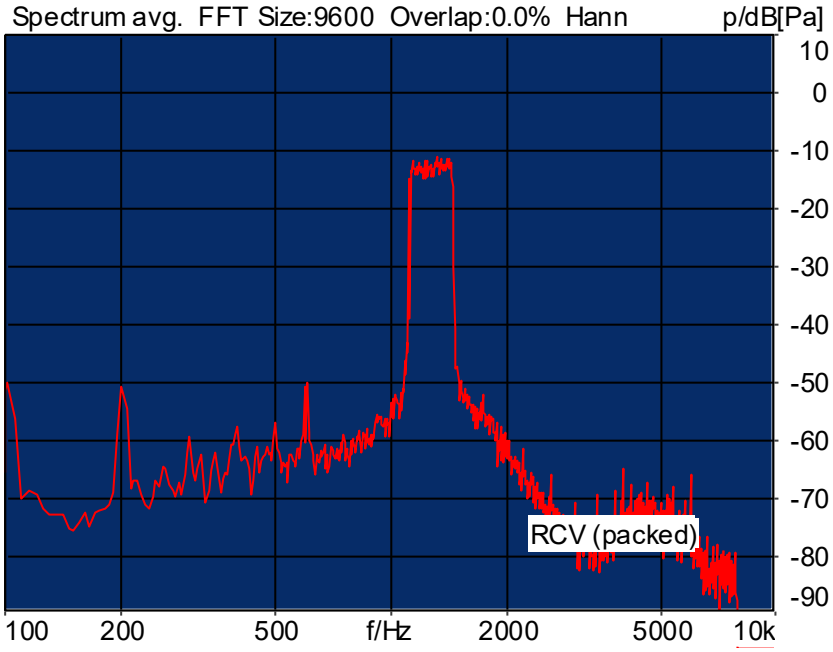
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 32.15 dB (2.47%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

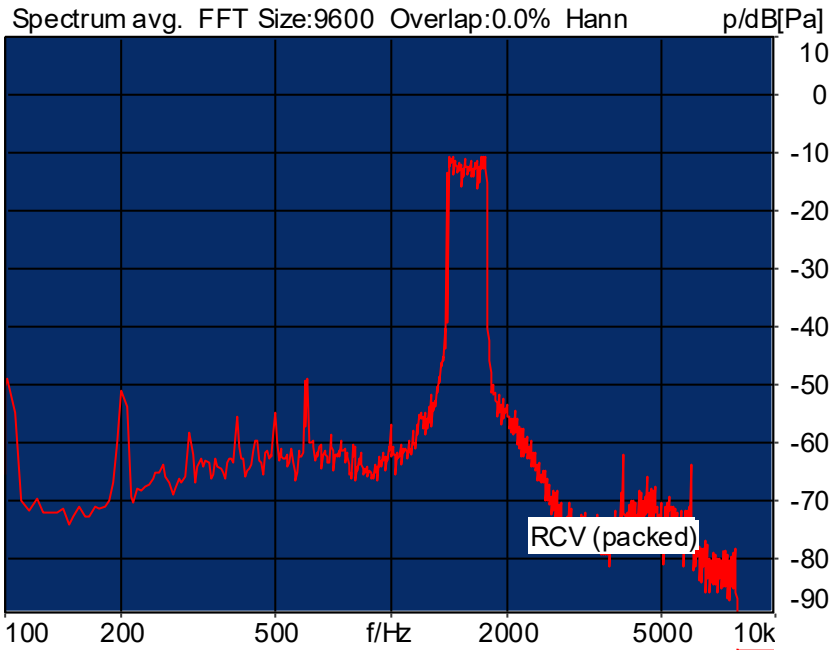
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 37.23 dB (1.38%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

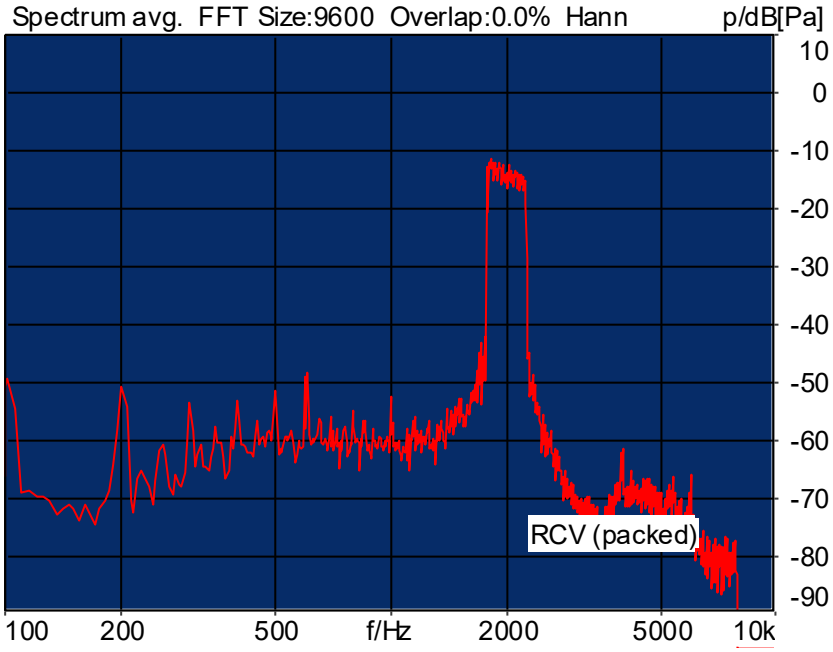
Used Setting	TIA5050

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



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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

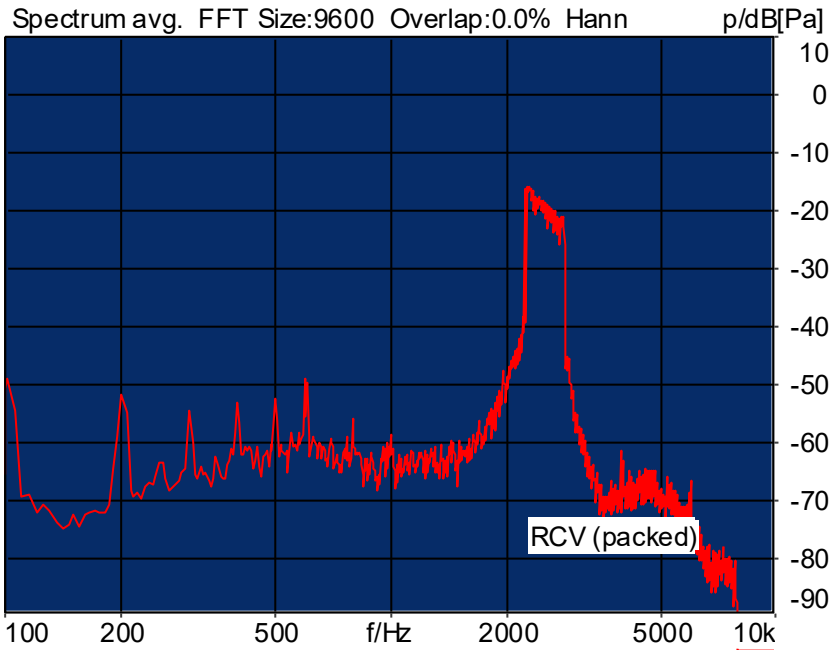
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.93 dB (4.50%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

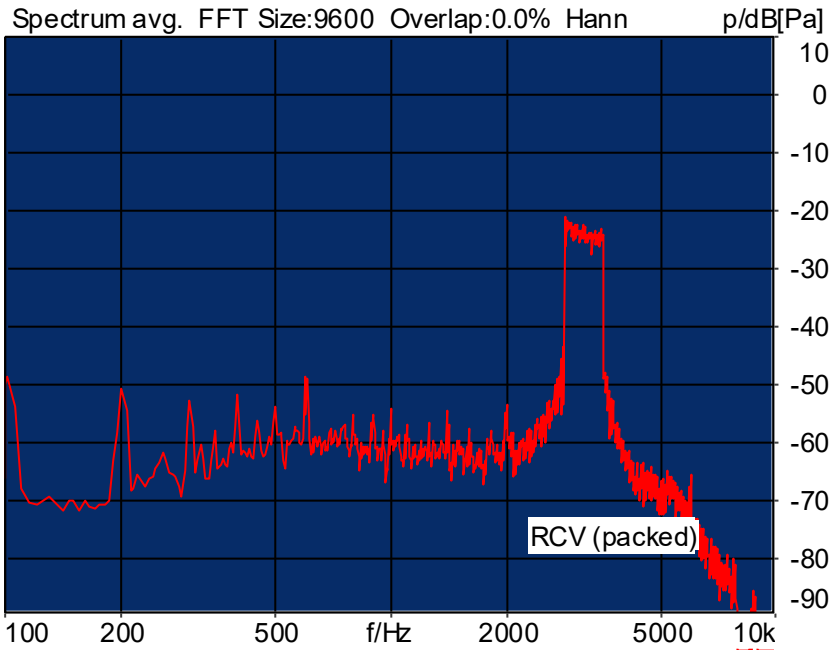
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 26.36 dB (4.81%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

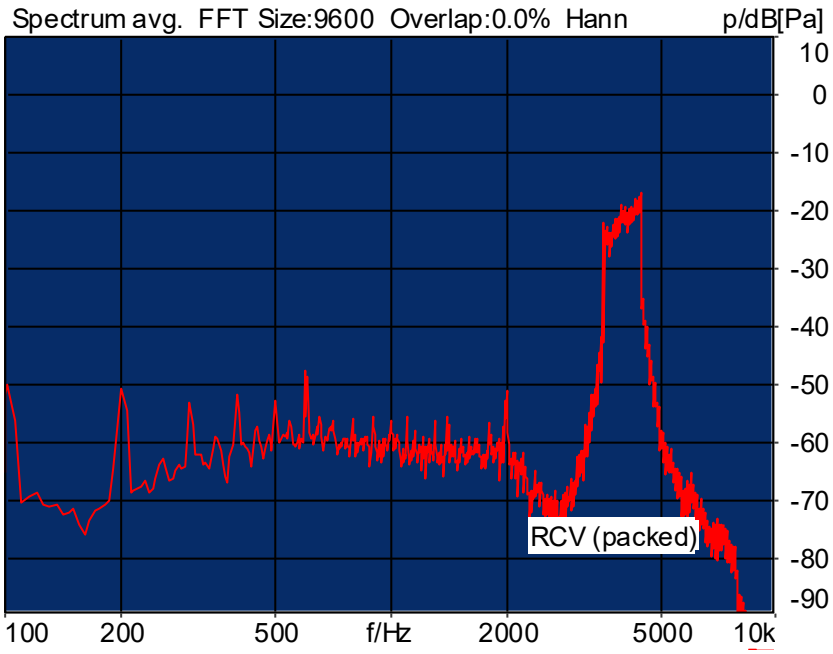
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 23.91 dB (6.38%) 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

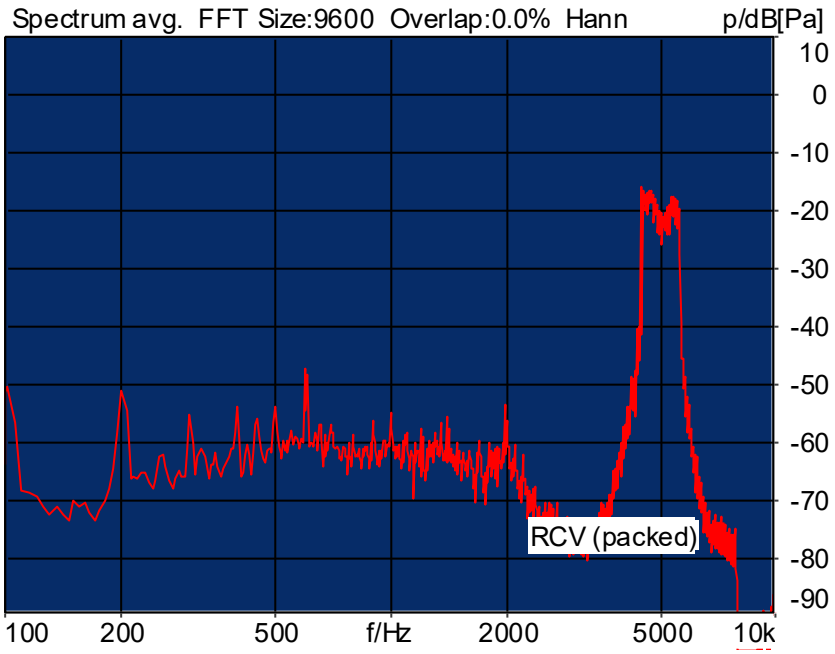
Used Setting	TIA5050

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



Distortion (Noise) RCV (packed): 29.71 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_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	155.3000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

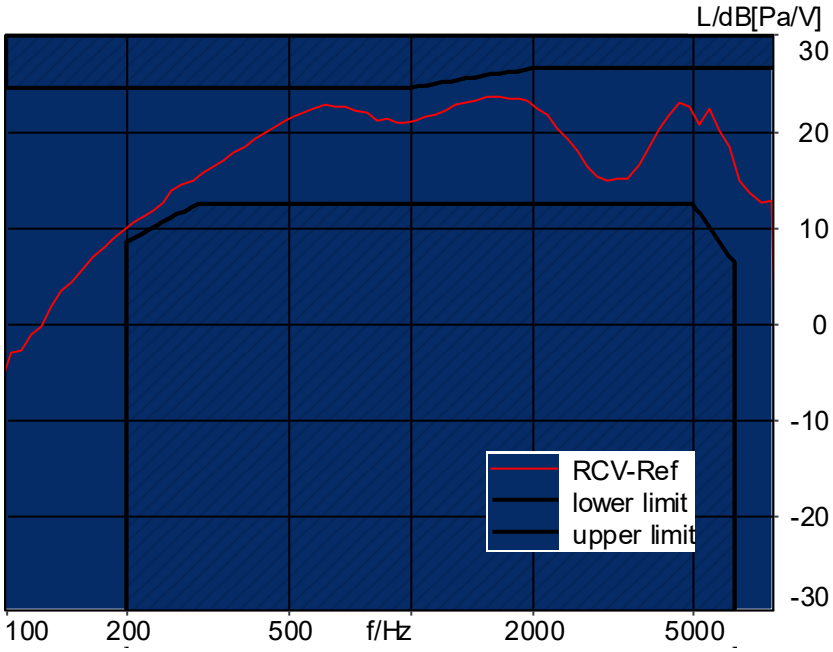
Used Setting	TIA5050

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
1.75 dB at 611.7 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	155.3000 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(33#)

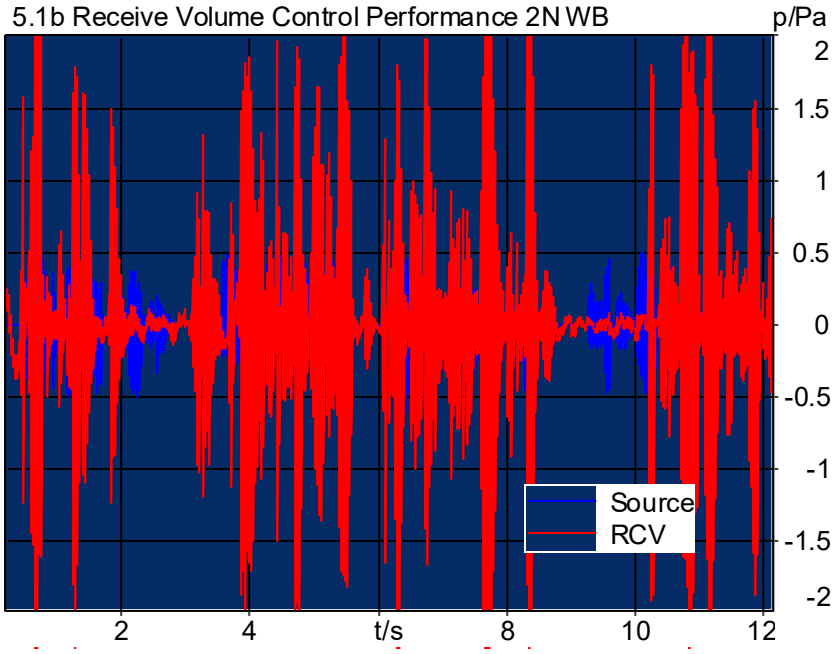
Measurement Object	Ti-CC26050303-Wifi2.4G

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.99	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.10	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.03	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.75	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.03	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.94	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.01	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.22	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.85	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.31	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.28	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.70	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.15	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.73	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.59	Ti-CC26050303-Wifi2.4G
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.88	Ti-CC26050303-Wifi2.4G

5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband
EVS-WB-24.4



Channel	Speech level	Activity	
RCV	83.99 dB[SPL]	78.43%	Ok

Ok

2026/6/1 12:11 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	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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

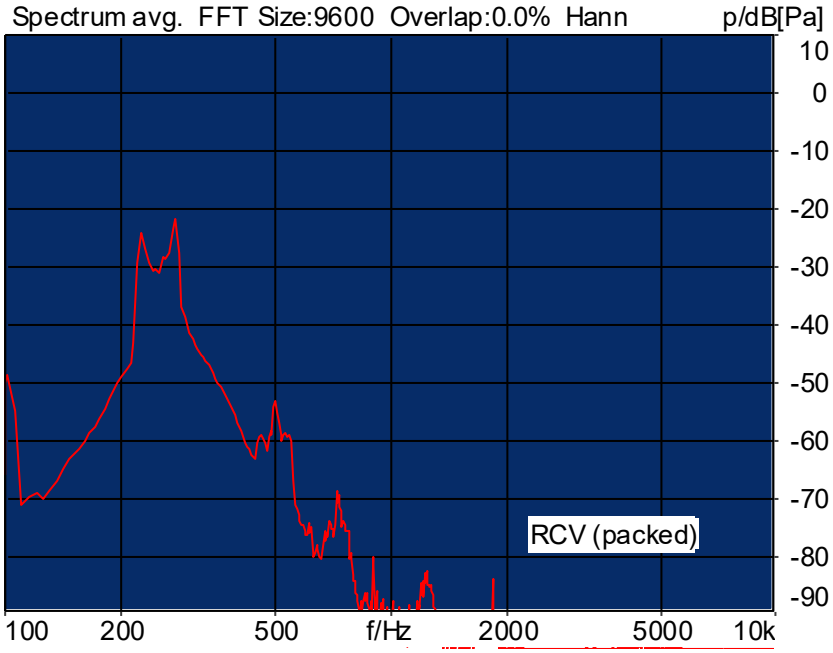
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.10 dB (4.96%) Ok

Ok

2026/6/1 12:43 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_250Hz

Hardware Config Settings

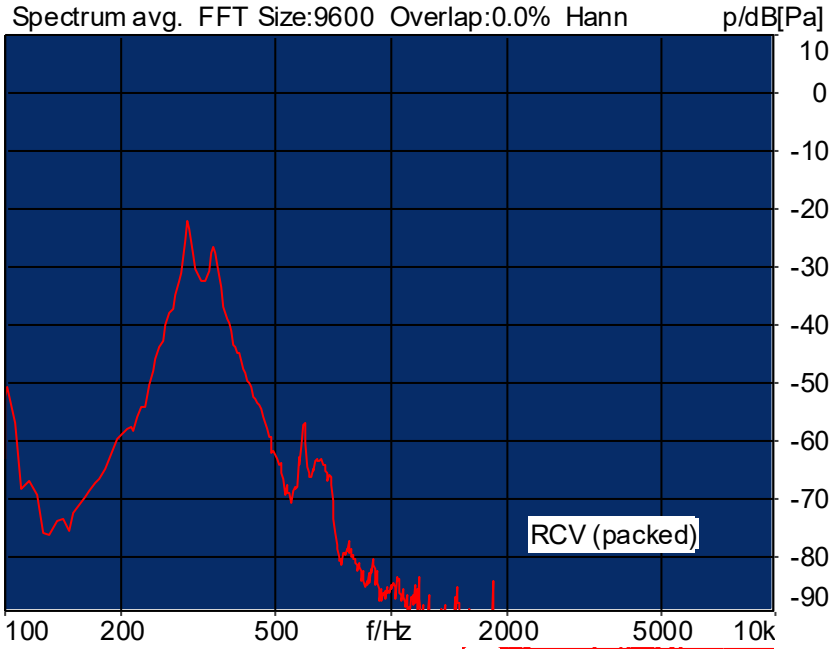
Used Setting	TIA5050

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-24.4



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

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_315Hz

Hardware Config Settings

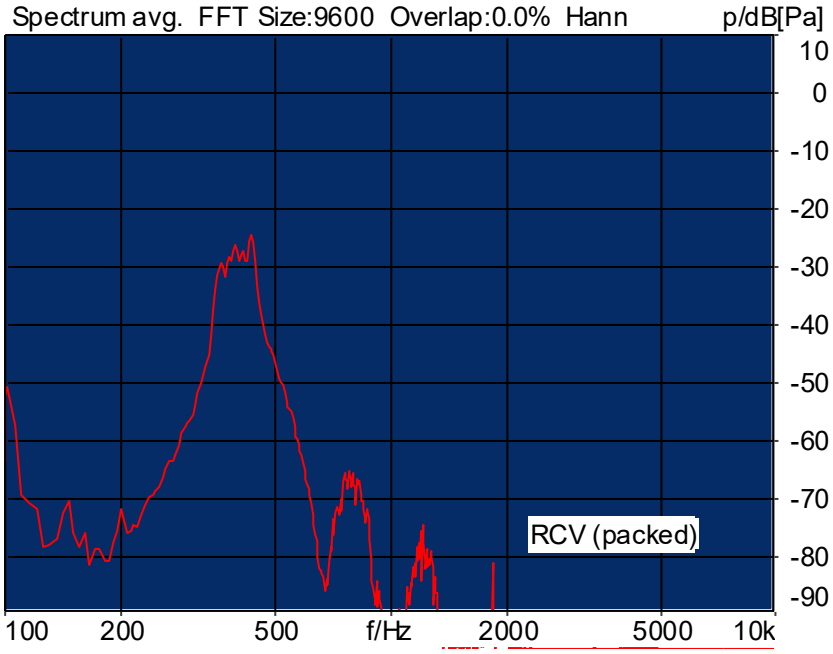
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 24.75 dB (5.79%) Ok

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_400Hz

Hardware Config Settings

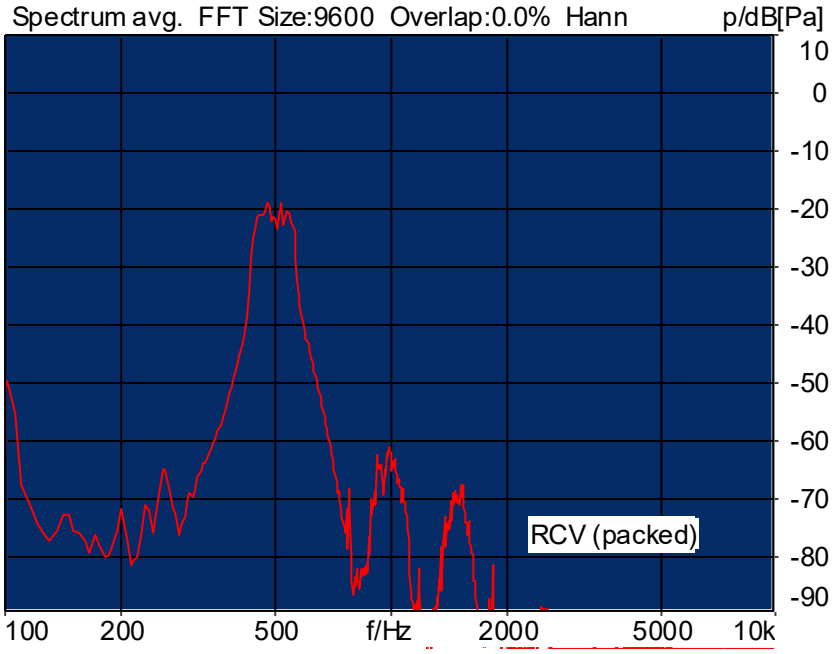
Used Setting	TIA5050

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-24.4



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

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_500Hz

Hardware Config Settings

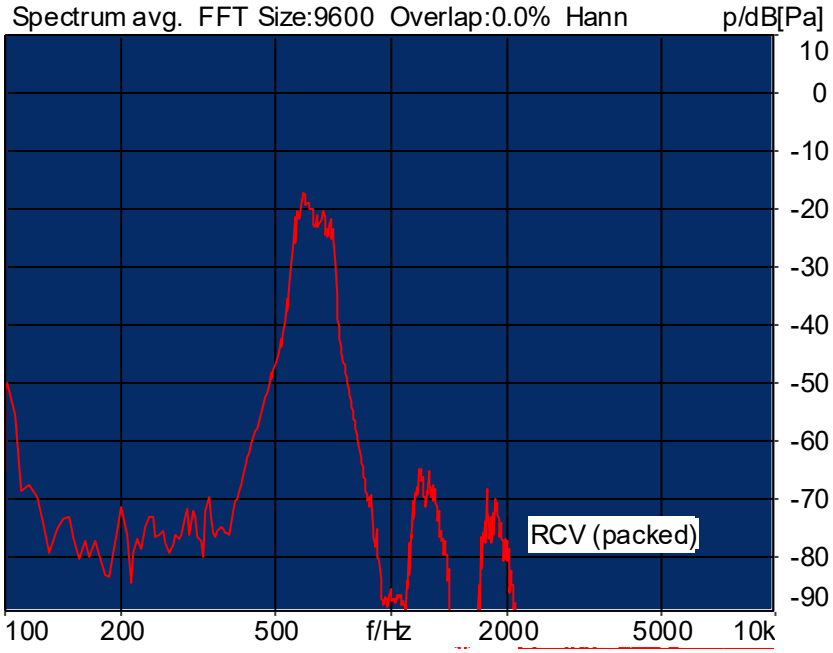
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 30.94 dB (2.84%) Ok

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_630Hz

Hardware Config Settings

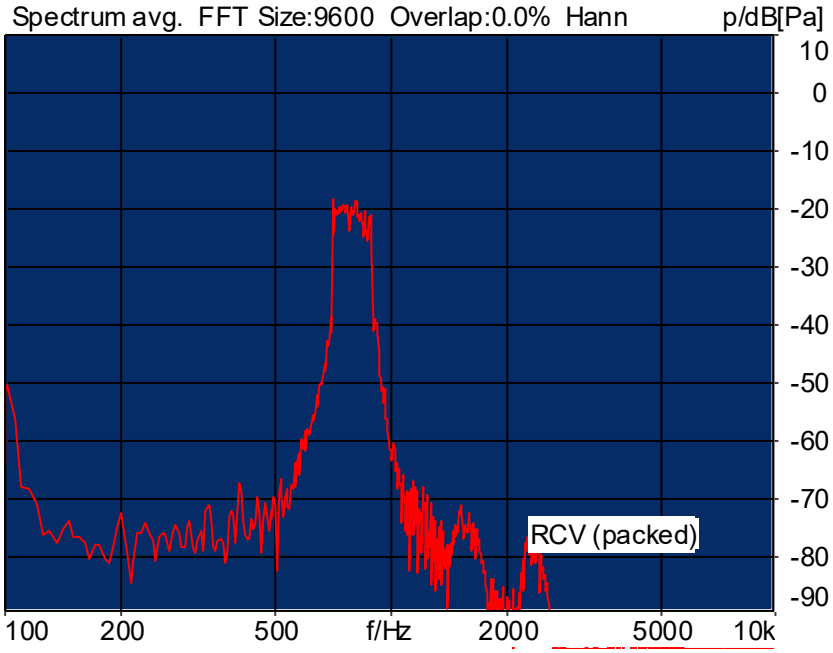
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.01 dB (2.24%) Ok

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_800Hz

Hardware Config Settings

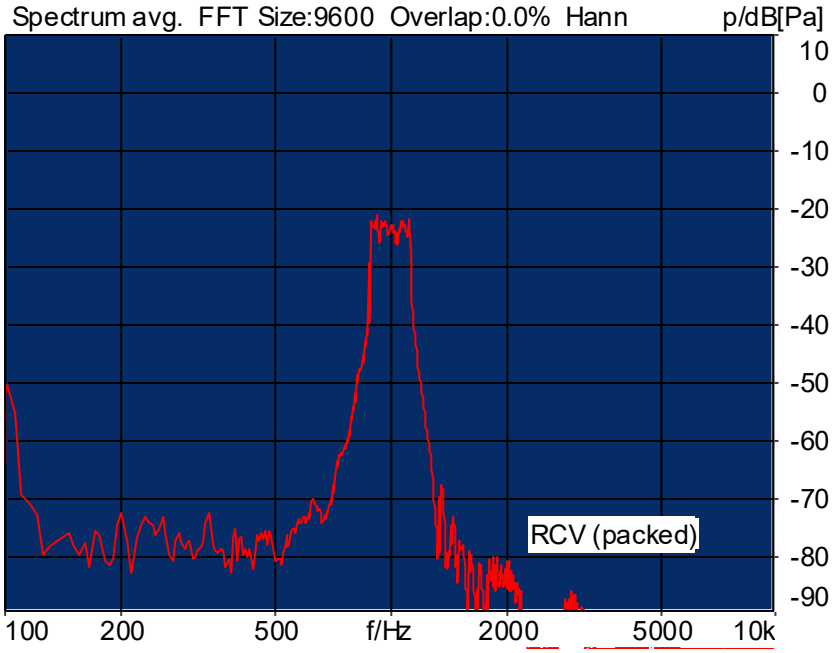
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 28.22 dB (3.88%) Ok

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1000Hz

Hardware Config Settings

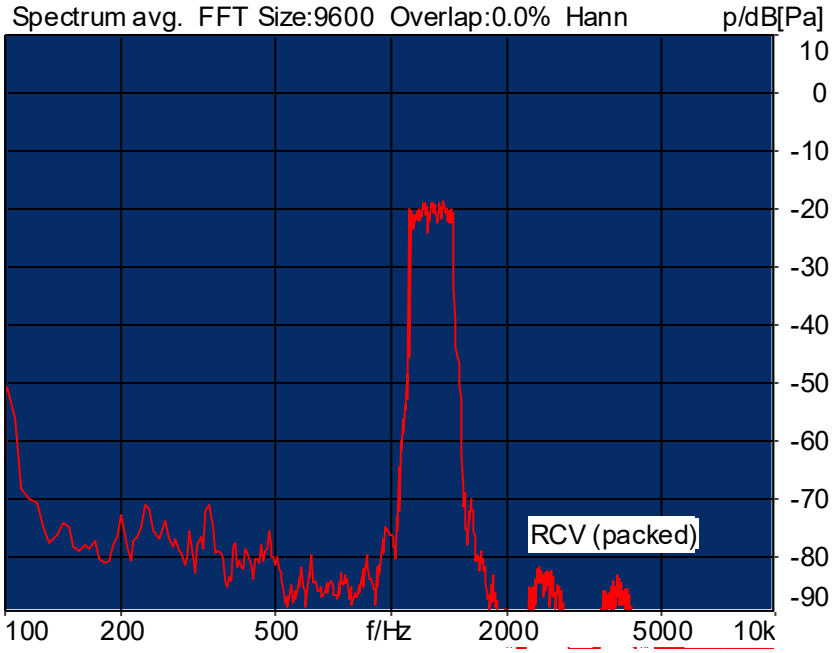
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.85 dB (4.55%) Ok

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1250Hz

Hardware Config Settings

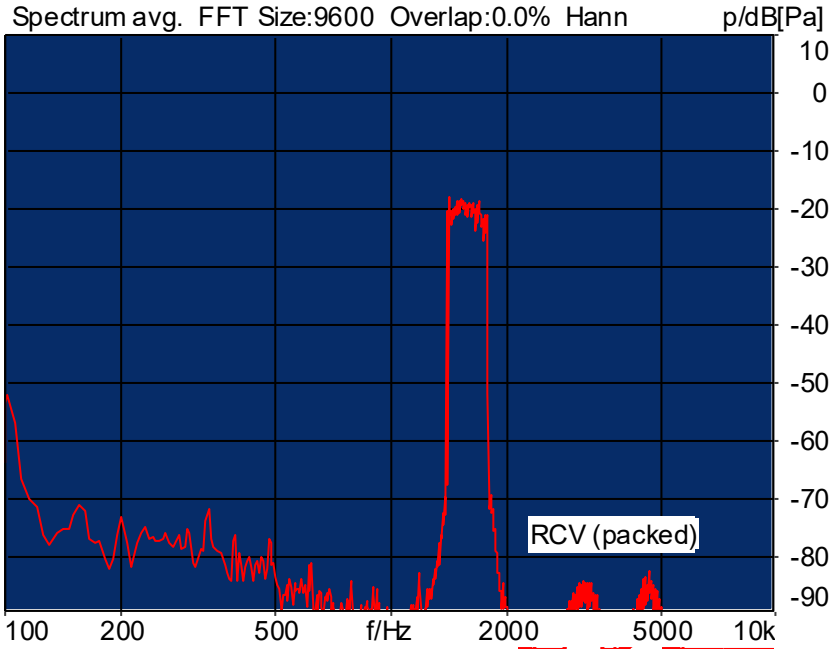
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 54.31 dB (0.19%) Ok

Ok

2026/6/1 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_1600Hz

Hardware Config Settings

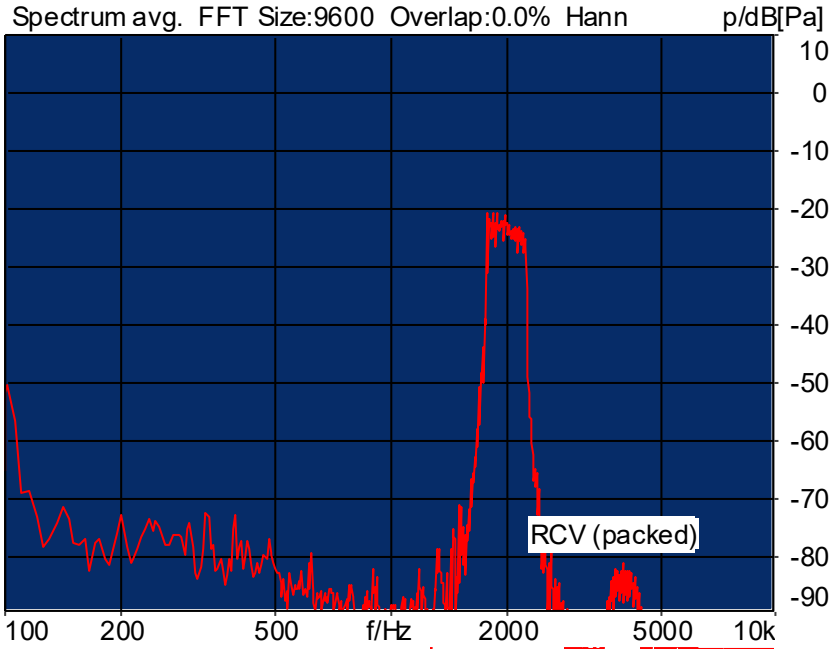
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 33.28 dB (2.17%) Ok

Ok

2026/6/1 12:15 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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2000Hz

Hardware Config Settings

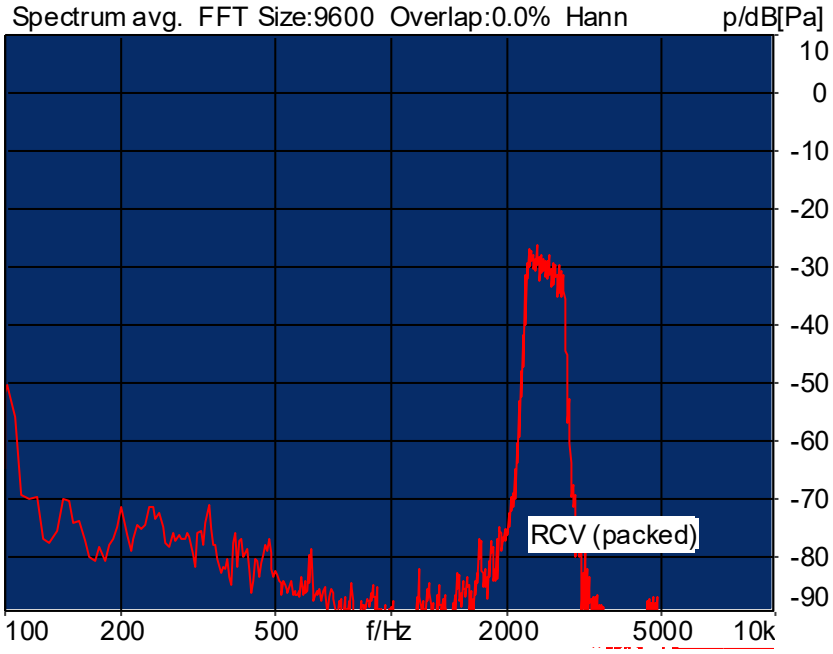
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 26.70 dB (4.62%) Ok

Ok

2026/6/1 12:15 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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_2500Hz

Hardware Config Settings

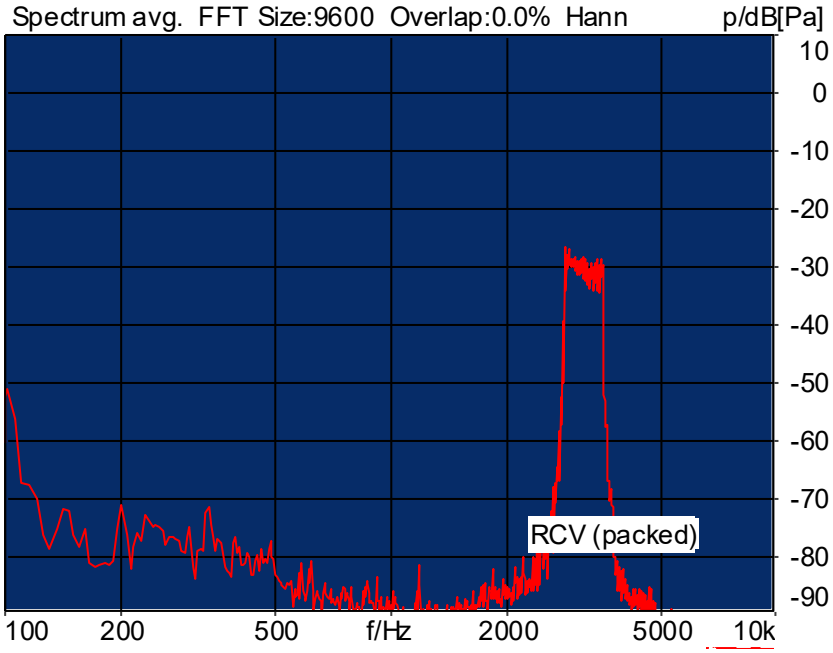
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 34.15 dB (1.96%) Ok

Ok

2026/6/1 12:15 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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_3150Hz

Hardware Config Settings

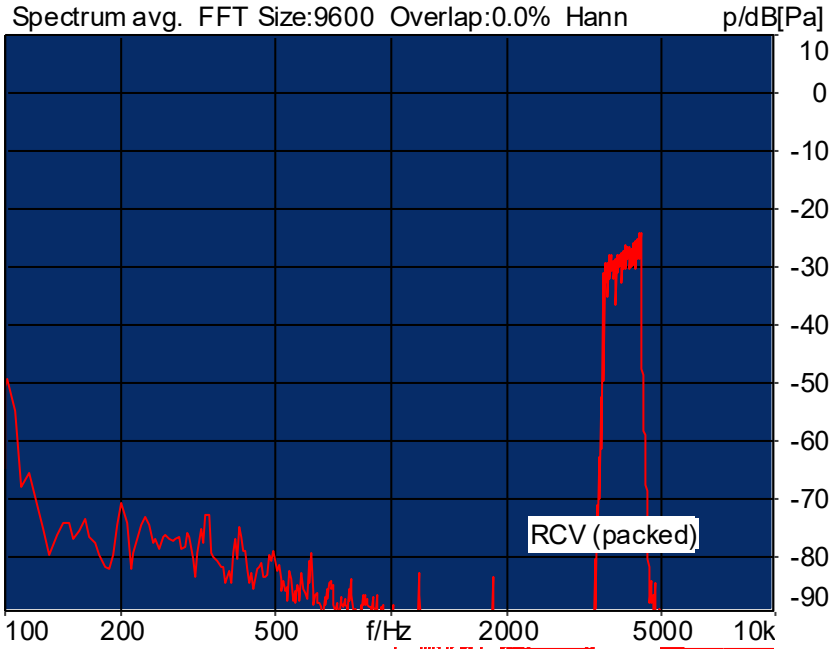
Used Setting	TIA5050

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-24.4



Distortion (Noise) RCV (packed): 37.73 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_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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_4000Hz

Hardware Config Settings

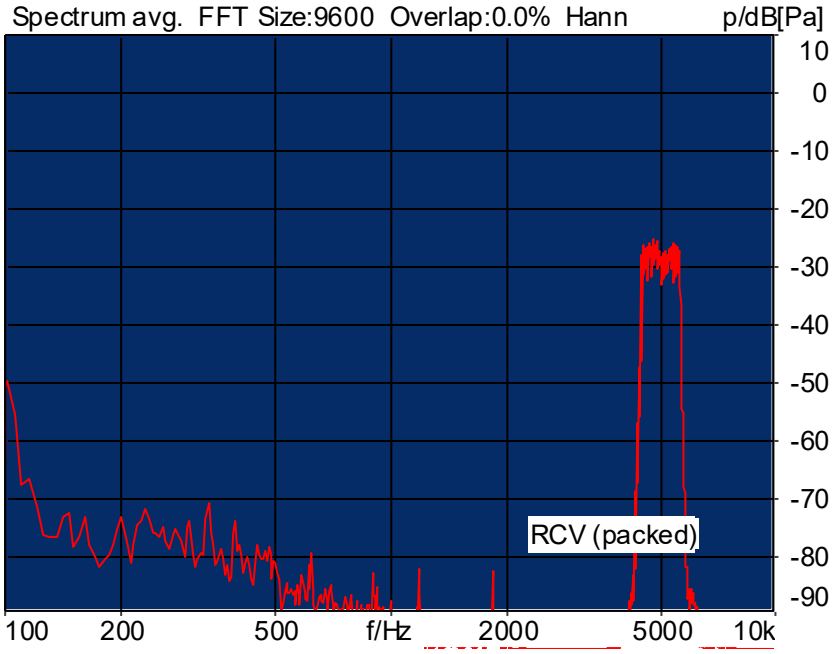
Used Setting	TIA5050

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

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Distortion (Noise) RCV (packed): 33.59 dB (2.09%) 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	494.6000 ms (D_RCV_WB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVWB10_5000Hz

Hardware Config Settings

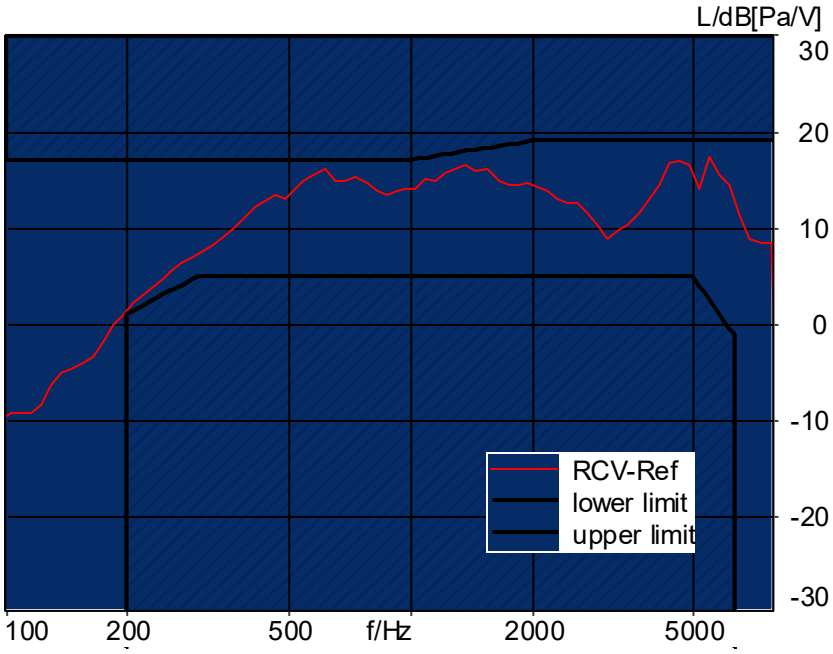
Used Setting	TIA5050

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
EVS-WB-24.4



Absolute minimal distance
0.88 dB at 611.7 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	494.6000 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

Measurement Protocol(34#)

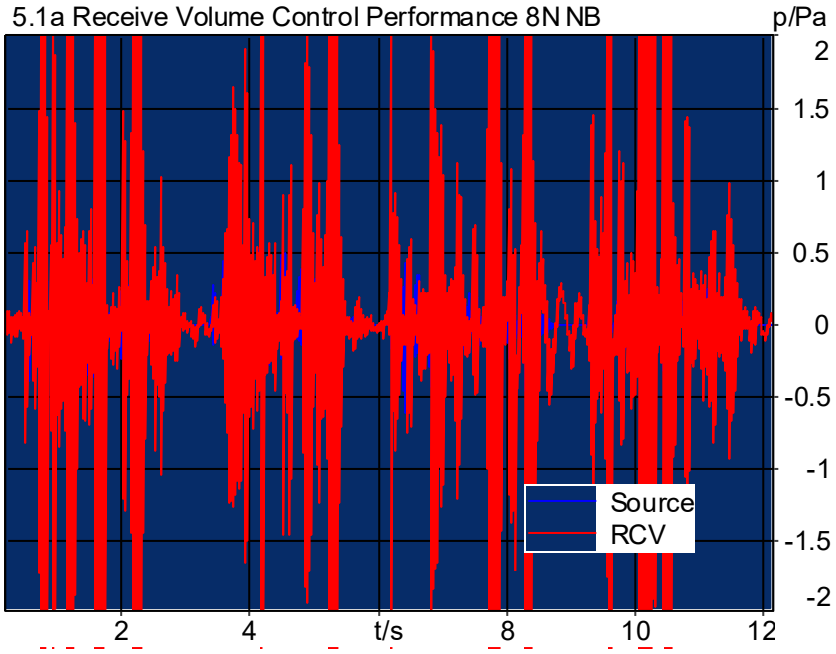
Measurement Object	Ti-CC26050303-Wifi2.4G

Status Overview

SMD	Status	Single Value Description	Single Value	Object
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	88.63	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.13	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.49	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.74	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.61	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.21	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.92	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.41	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.11	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.38	Ti-CC26050303-Wifi2.4G
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.55	Ti-CC26050303-Wifi2.4G
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	0.66	Ti-CC26050303-Wifi2.4G

5.1a Receive Volume Control Performance 8N NB

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EVS-NB-5.9



Channel	Speech level	Activity	
RCV	88.63 dB[SPL]	78.75%	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	168.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)
Channels	2

Hardware Config Settings

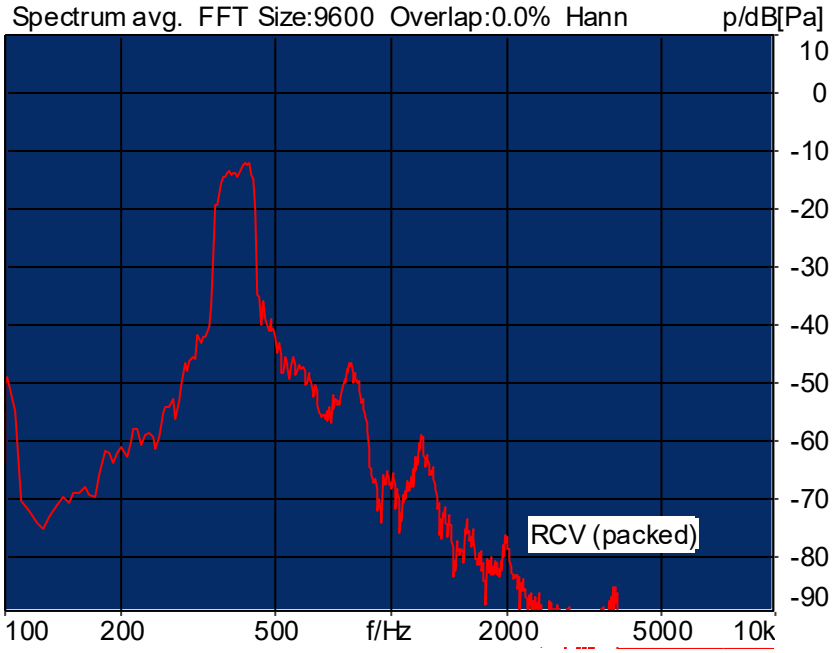
Used Setting	TIA5050

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

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EVS-NB-5.9



Distortion (Noise) RCV (packed): 30.13 dB (3.12%) 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_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	168.3000 ms (D_RCV_NB, Delay (Cross) RCV*Source)		
Channels	2	Store to variable	RCVNB10_400Hz

Hardware Config Settings

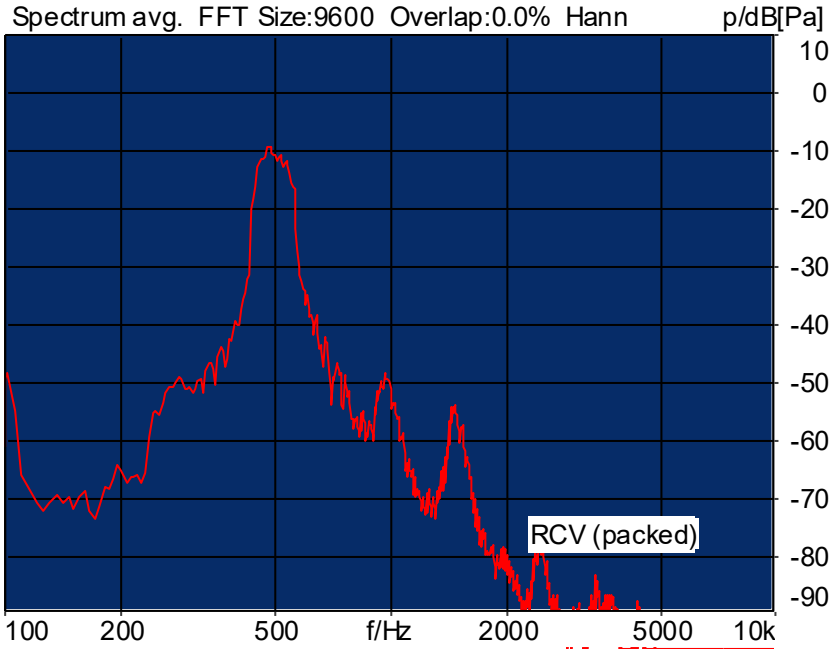
Used Setting	TIA5050

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 8N
EVS-NB-5.9



Distortion (Noise) RCV (packed): 29.49 dB (3.36%) 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	168.3000 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