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## **Measurement Protocol**

Measurement Object	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
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Project	3O1004-01 of TIA-5050 (2018-01)
Report Generation Date	2023/11/23 20:49

## Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	119.3	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.98	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.38	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.11	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.15	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.11	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.69	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.50	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.75	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.08	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.54	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.29	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.42	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.84	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.74	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.31	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
Report - Receive Distortion	Ok	Minimum SDNR	23.38	LTE Band

and Noise (Conversational Gain)		[dB], (occured at 250Hz)		66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	0.12	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N
5.3 Frequency Response 8N DF	Not Ok	Min. dist. to tolerance scheme [dB], 924.0 Hz	-0.03	LTE Band 66_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch132322_8N

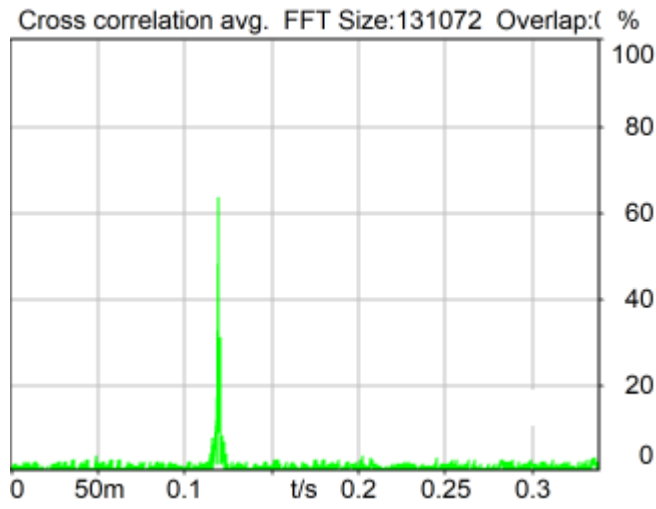
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Overall Receive Delay WB	6
5.1a Receive Volume Control Performance 8N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 8N FF	23
5.3 Frequency Response 8N DF	24



## Overall Receive Delay WB

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



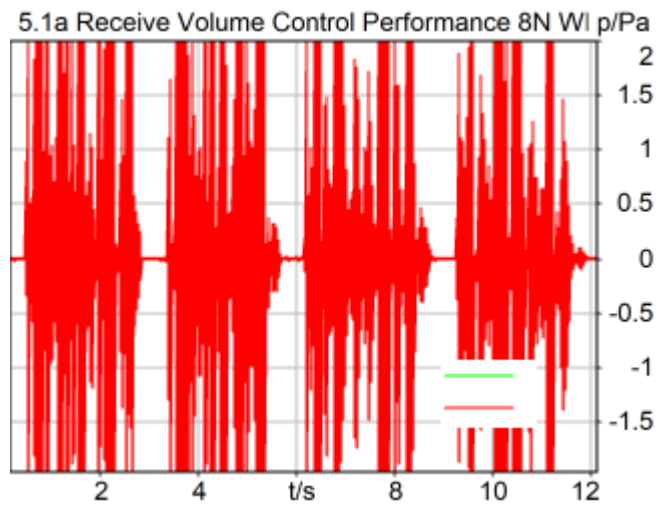
Delay (Cross): 119.3 ms

2023/11/23 18:10 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 5.1a Receive Volume Control Performance 8N WB

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



Speech Level RCV: 90.98 dB[SPL], Act.: 80.53% Ok

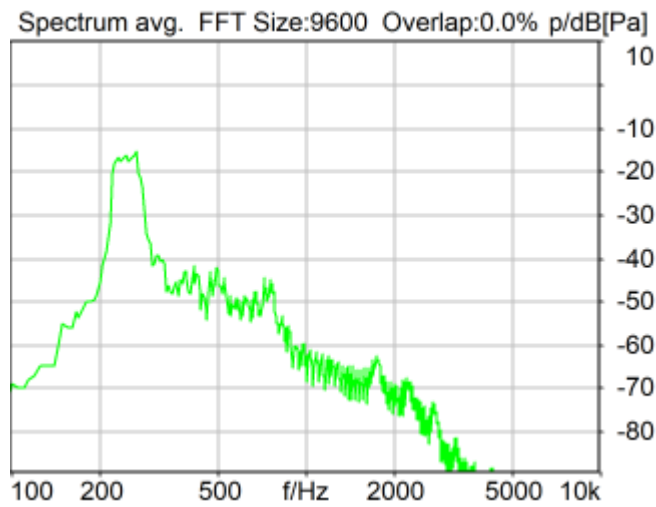
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## **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): 23.38 dB (6.78%) Ok

**Ok**

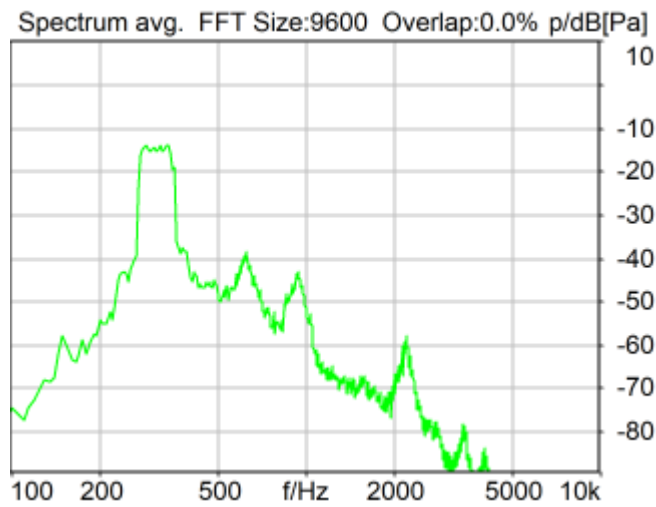
2023/11/23 18:11 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor



## **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): 24.11 dB (6.23%) Ok

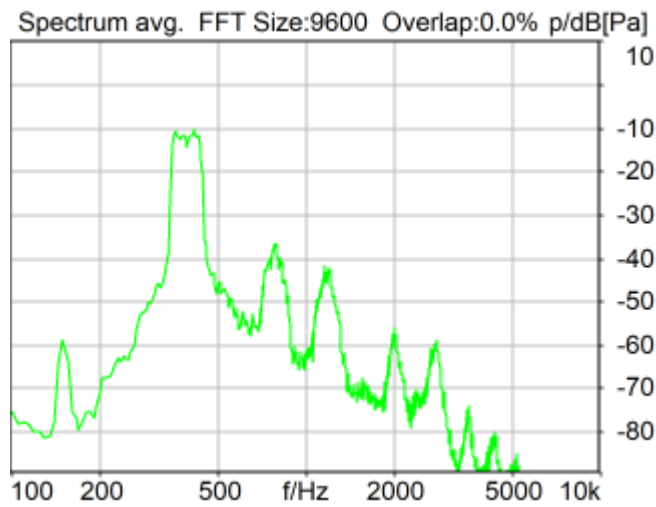
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## **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): 25.15 dB (5.53%) Ok

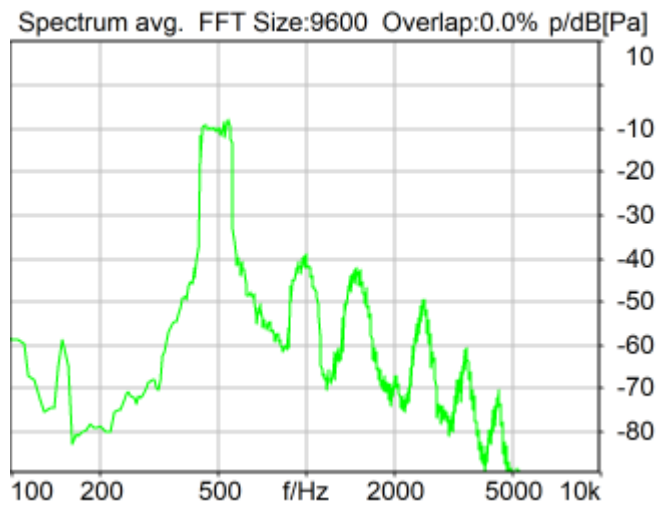
**Ok**

2023/11/23 18:12 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## **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): 27.11 dB (4.41%) Ok

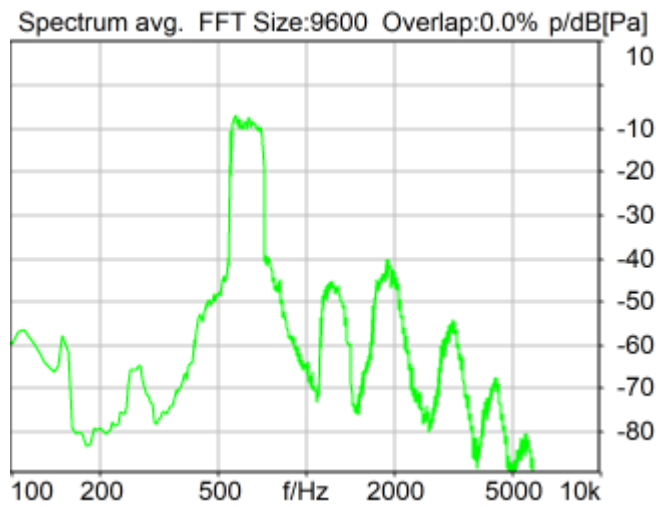
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## **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): 28.69 dB (3.68%) Ok

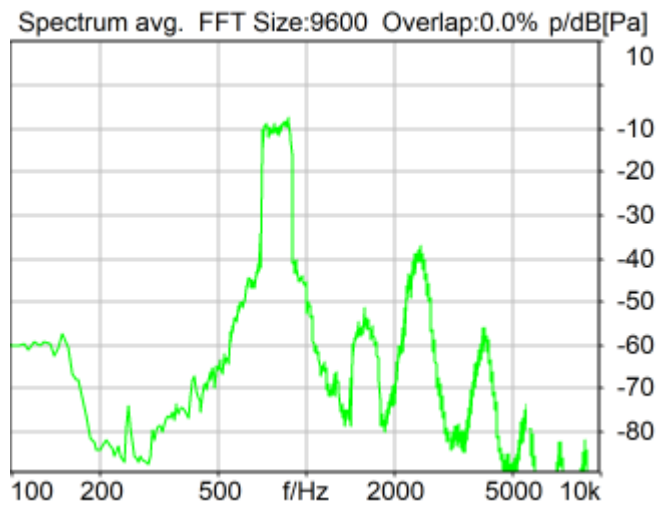
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## **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): 26.50 dB (4.73%) Ok

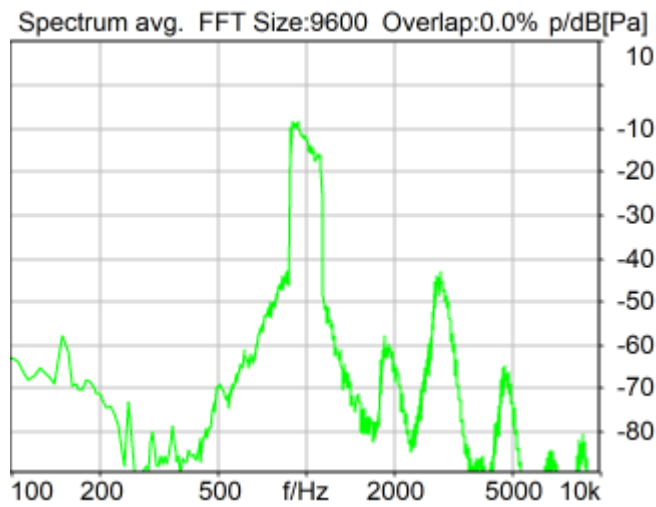
**Ok**

2023/11/23 18:13 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 30.75 dB (2.90%) Ok

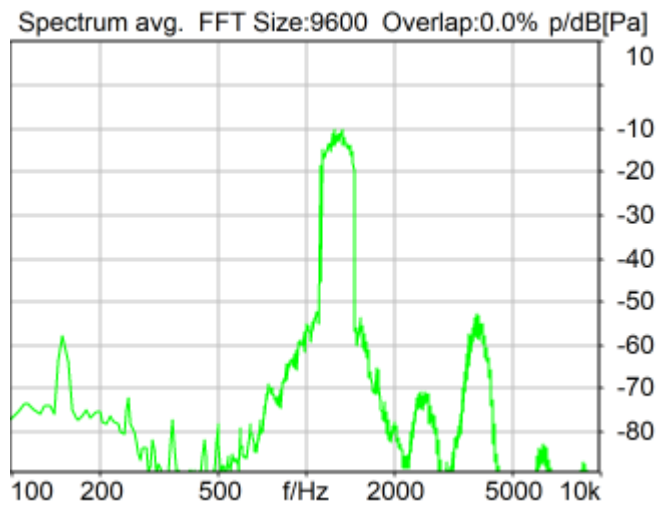
**Ok**

2023/11/23 18:14 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 35.08 dB (1.76%) Ok

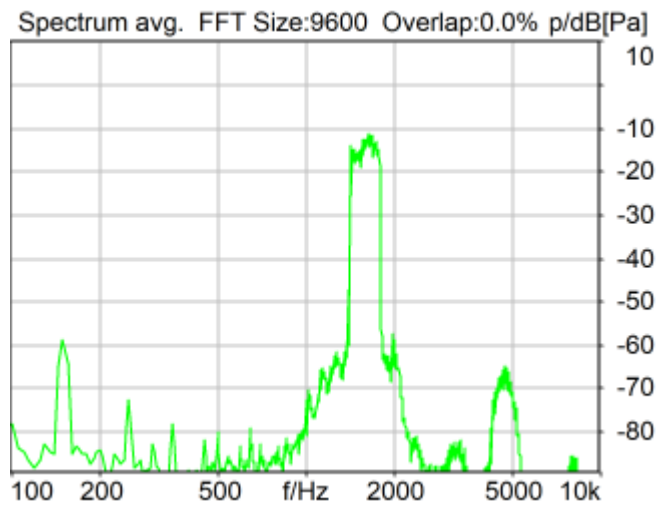
Ok

2023/11/23 18:14 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 45.54 dB (0.53%) Ok

**Ok**

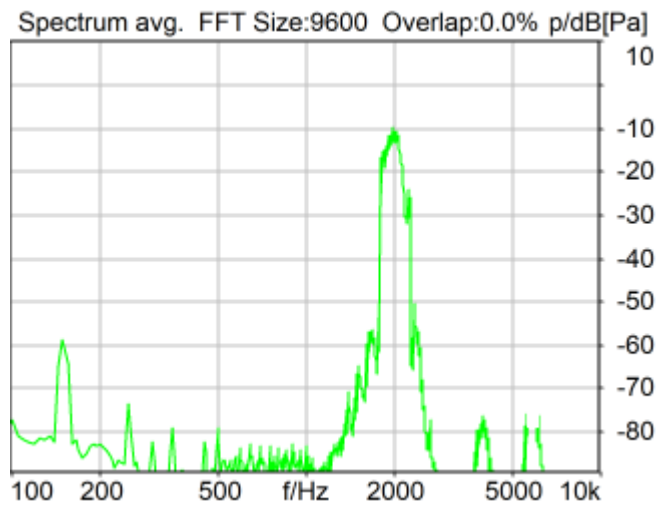
2023/11/23 18:14 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor



## 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): 43.29 dB (0.68%) Ok

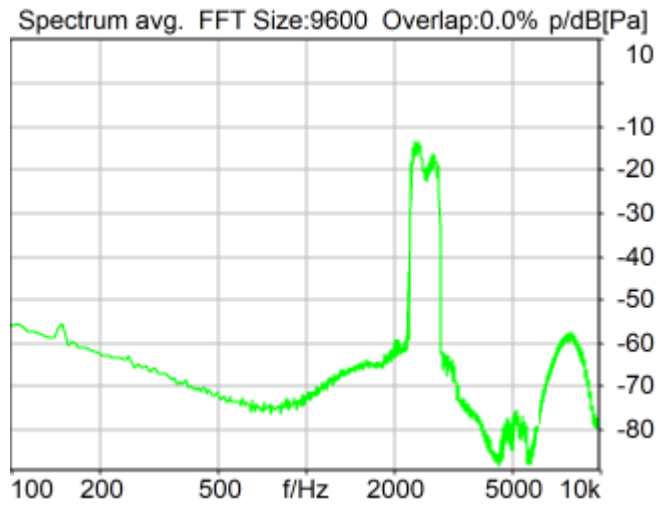
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## 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): 35.42 dB (1.69%) Ok

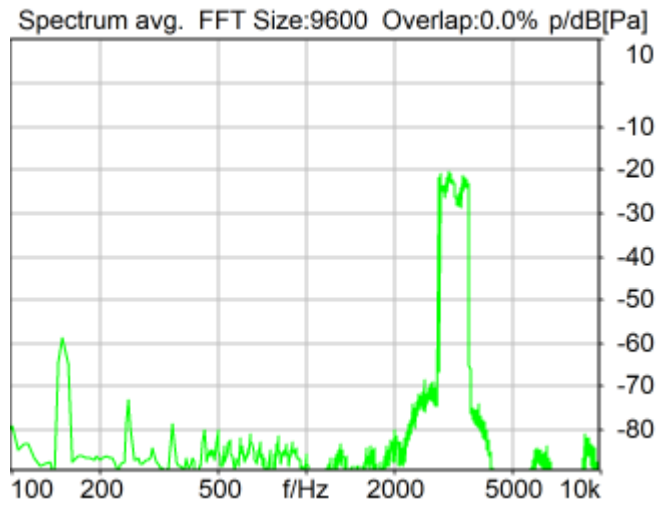
Ok

2023/11/23 18:15 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 46.84 dB (0.46%) Ok

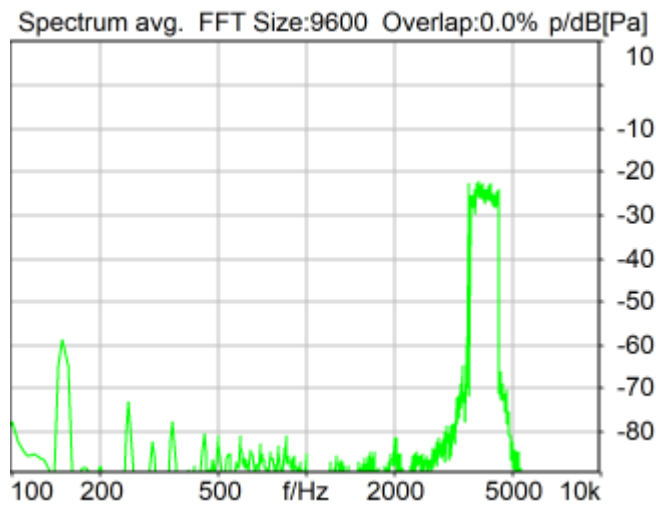
Ok

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Unmodified HEAD acoustics Measurement Descriptor

## 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): 44.74 dB (0.58%) Ok

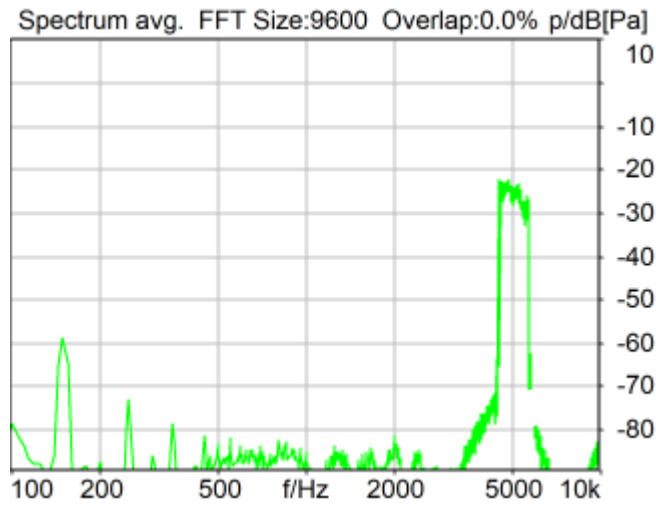
Ok

2023/11/23 18:16 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## **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): 47.31 dB (0.43%) Ok

**Ok**

2023/11/23 18:16 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

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## **Report - Receive Distortion and Noise (Conversational Gain)**

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

<b>Region</b>	<b>Frequency</b>	<b>SDNR</b>
1	250Hz	23.38 dB
2	315Hz	24.11 dB
3	400Hz	25.15 dB
4	500Hz	27.11 dB
5	630Hz	28.69 dB
6	800Hz	26.50 dB
7	1000Hz	30.75 dB
8	1250Hz	35.08 dB
9	1600Hz	45.54 dB
10	2000Hz	43.29 dB
11	2500Hz	35.42 dB
12	3150Hz	46.84 dB
13	4000Hz	44.74 dB
14	5000Hz	47.31 dB

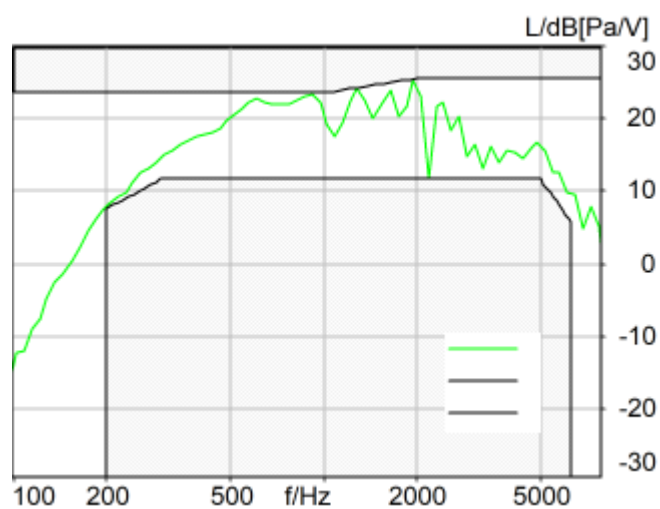
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.38dB at 250Hz.

2023/11/23 18:17 ACQUA

## 5.3 Frequency Response 8N FF

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



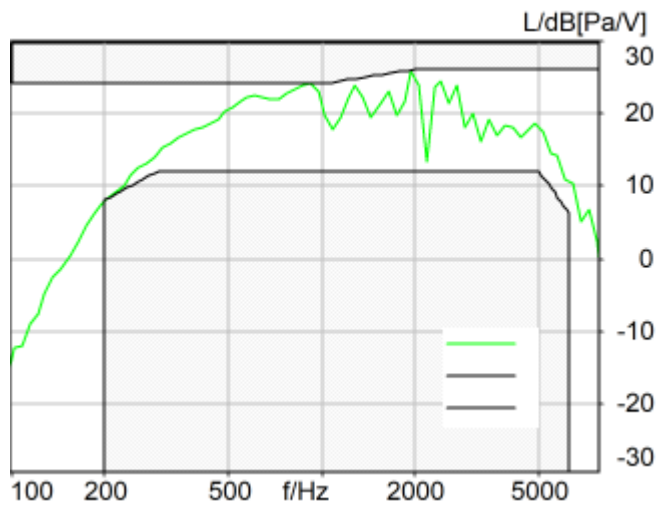
Absolute minimal distance  
0.12 dB at 1285.9 Hz Ok

**Ok**

2023/11/23 18:19 ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

### 5.3 Frequency Response 8N DF

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



Absolute minimal distance  
-0.03 dB at 924.0 Hz Not Ok

#### Not Ok

2023/11/23 18:18 ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



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## **Measurement Protocol**

Measurement Object	LTE Band 7 20M QPSK 100RB 0Offset EVS WB 64Kbps_Ch21100_2N
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Project	3O1004-01 of TIA-5050 (2018-01)
Report Generation Date	2023/11/23 20:50

## Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	118.8	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.34	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.33	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.27	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.09	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.57	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.42	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.62	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.69	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.32	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.27	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.89	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.37	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.11	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.16	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	46.91	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
Report - Receive Distortion	Ok	Minimum SDNR	22.33	LTE Band

and Noise (Conversational Gain)		[dB], (occured at 250Hz)		7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 1285.9 Hz	0.22	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 924.0 Hz	-0.01	LTE Band 7_20M_QPSK_100RB_0Offset_EVS WB 64Kbps_Ch21100_2N

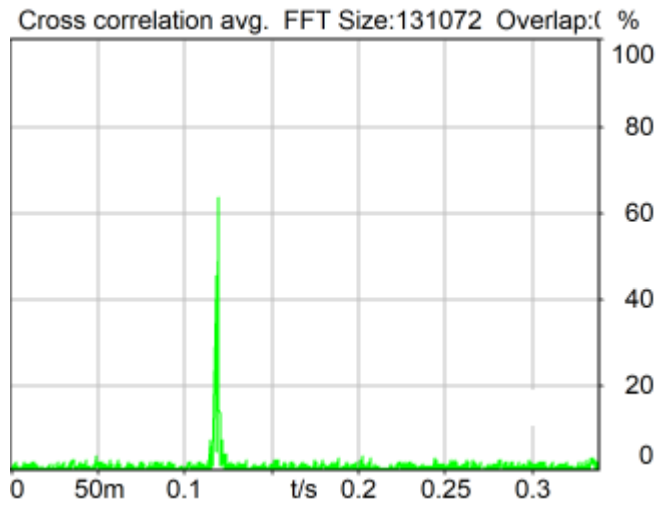
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Overall Receive Delay WB	6
5.1b Receive Volume Control Performance 2N WB	7
5.2 RCV Distortion and Noise - 250 Hz WB	8
5.2 RCV Distortion and Noise - 315 Hz WB	9
5.2 RCV Distortion and Noise - 400 Hz WB	10
5.2 RCV Distortion and Noise - 500 Hz WB	11
5.2 RCV Distortion and Noise - 630 Hz WB	12
5.2 RCV Distortion and Noise - 800 Hz WB	13
5.2 RCV Distortion and Noise - 1000 Hz WB	14
5.2 RCV Distortion and Noise - 1250 Hz WB	15
5.2 RCV Distortion and Noise - 1600 Hz WB	16
5.2 RCV Distortion and Noise - 2000 Hz WB	17
5.2 RCV Distortion and Noise - 2500 Hz WB	18
5.2 RCV Distortion and Noise - 3150 Hz WB	19
5.2 RCV Distortion and Noise - 4000 Hz WB	20
5.2 RCV Distortion and Noise - 5000 Hz WB	21
Report - Receive Distortion and Noise (Conversational Gain)	22
5.3 Frequency Response 2N FF	23
5.3 Frequency Response 2N DF	24



## Overall Receive Delay WB

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



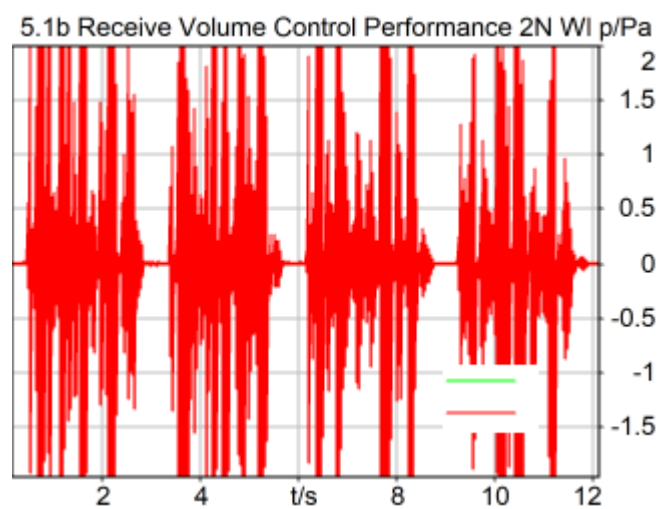
Delay (Cross): 118.8 ms

2023/11/23 18:26 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 87.34 dB[SPL], Act.: 80.59% Ok

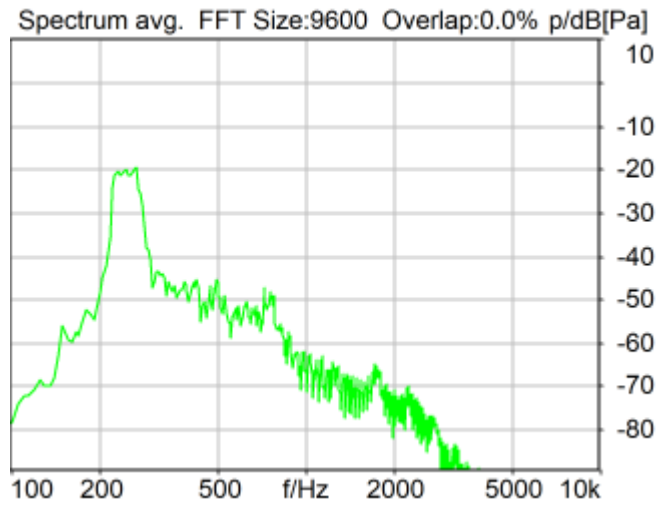
**Ok**

2023/11/23 18:26 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 22.33 dB (7.65%) Ok

Ok

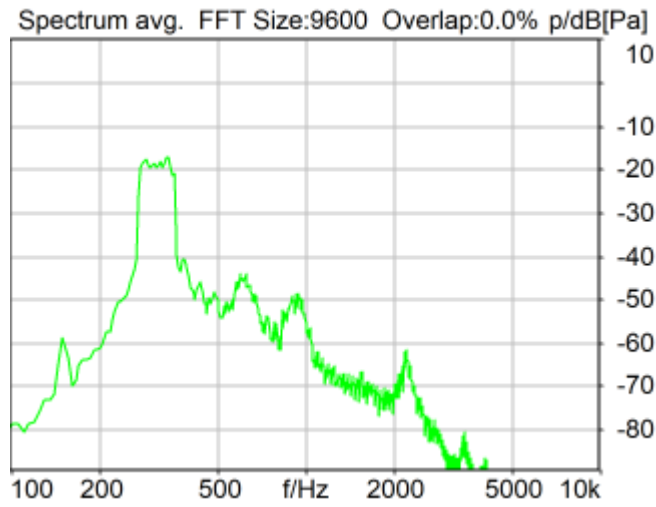
2023/11/23 18:27 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor



## **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): 24.27 dB (6.11%) Ok

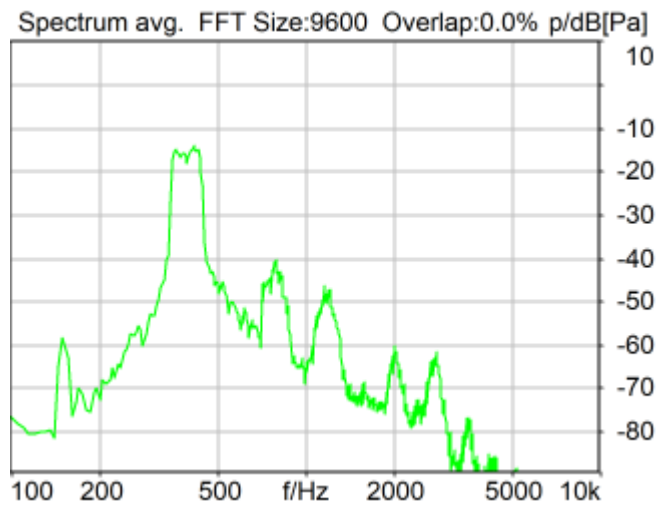
**Ok**

2023/11/23 18:27 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## **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): 25.09 dB (5.56%) Ok

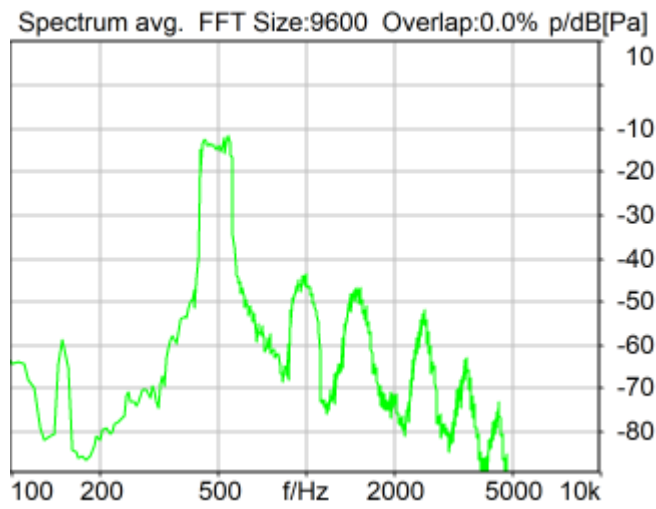
**Ok**

2023/11/23 18:27 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## **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): 27.57 dB (4.18%) Ok

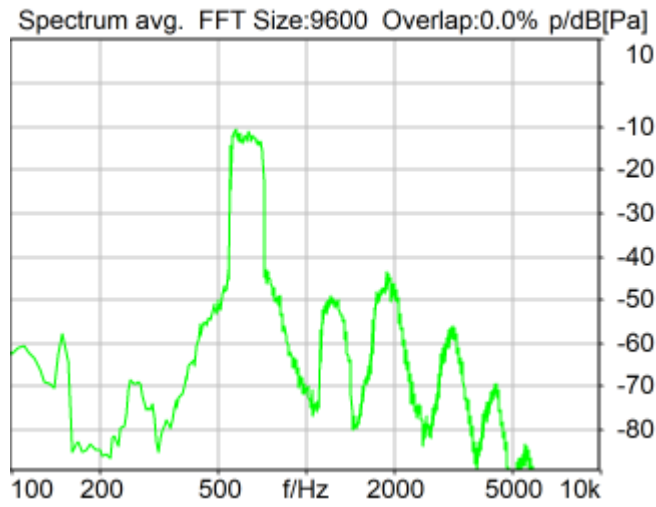
**Ok**

2023/11/23 18:28 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## **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): 28.42 dB (3.79%) Ok

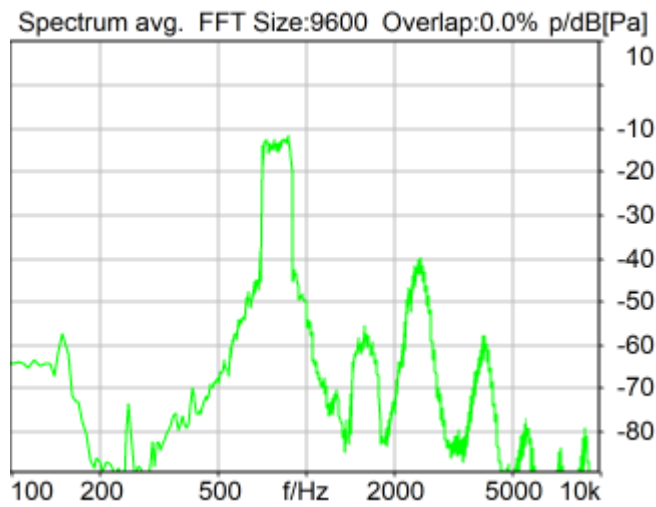
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## **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): 25.62 dB (5.24%) Ok

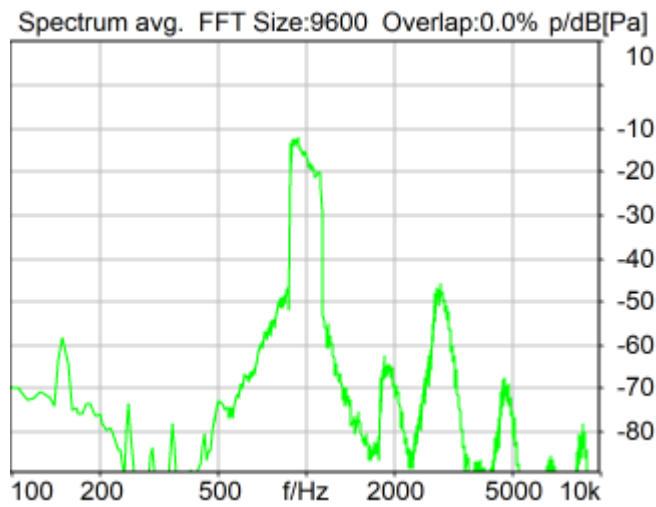
**Ok**

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Unmodified HEAD acoustics Measurement Descriptor

## 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): 29.69 dB (3.28%) Ok

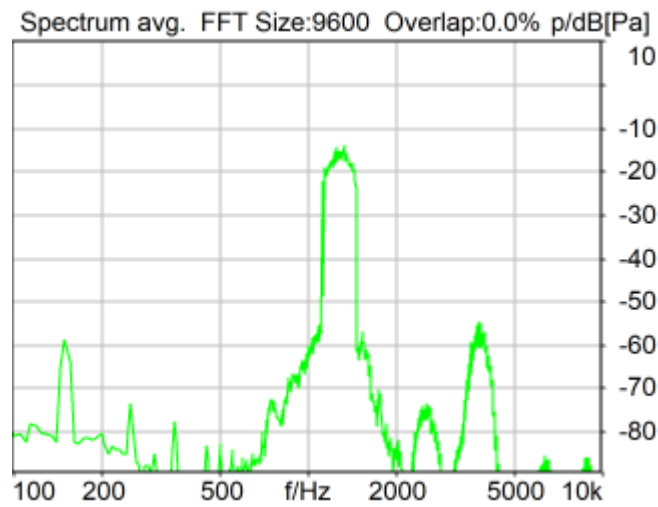
Ok

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Unmodified HEAD acoustics Measurement Descriptor

## 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): 34.32 dB (1.92%) Ok

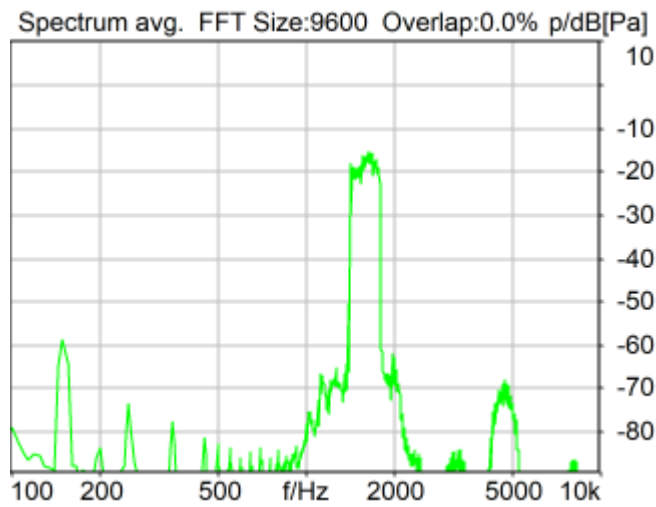
Ok

2023/11/23 18:29 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 45.27 dB (0.55%) Ok

Ok

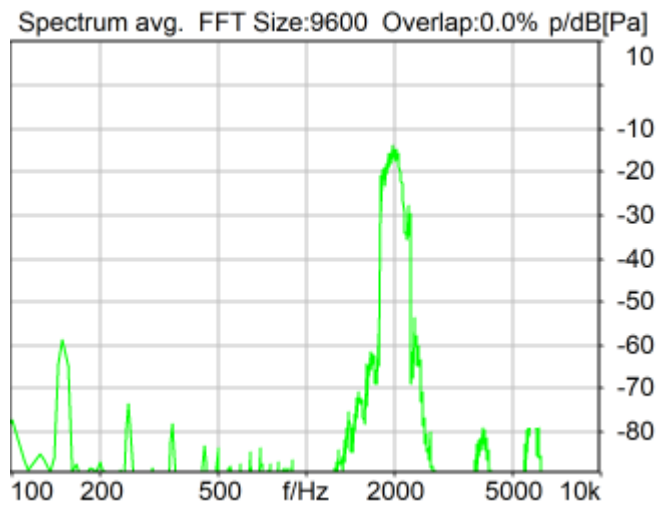
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Unmodified HEAD acoustics Measurement Descriptor



## 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): 42.89 dB (0.72%) Ok

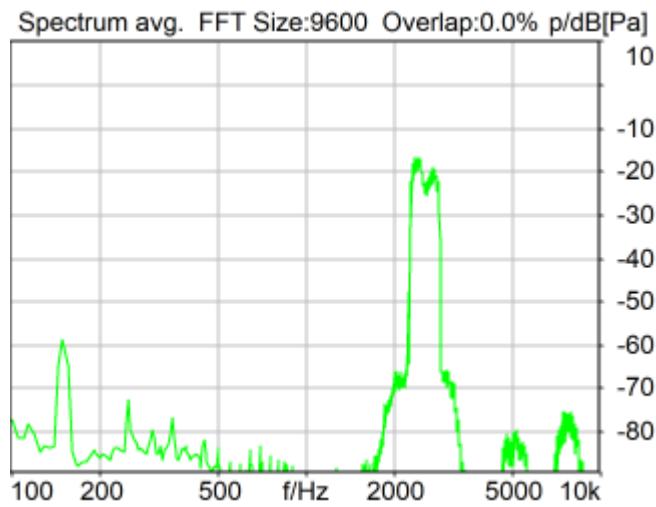
Ok

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Unmodified HEAD acoustics Measurement Descriptor

## 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): 45.37 dB (0.54%) Ok

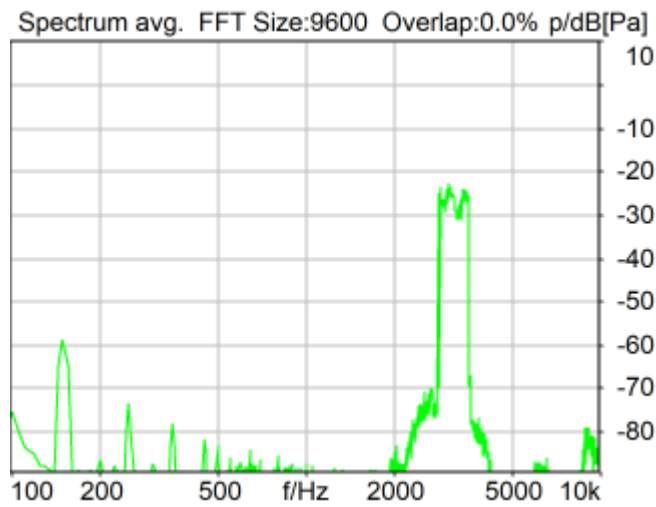
Ok

2023/11/23 18:30 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 46.11 dB (0.50%) Ok

**Ok**

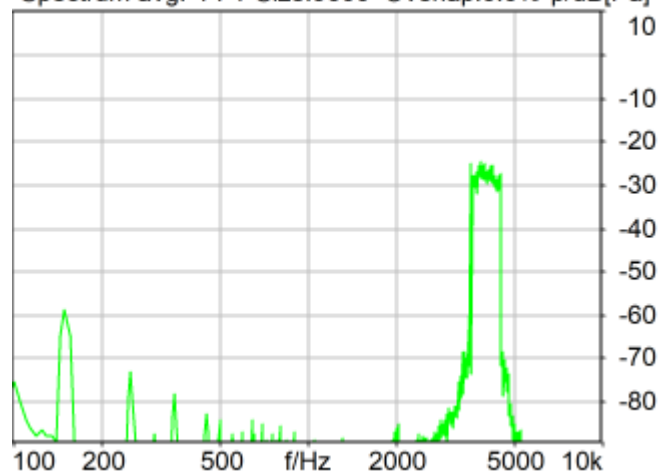
2023/11/23 18:31 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 5.2 RCV Distortion and Noise - 4000 Hz WB

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

Spectrum avg. FFT Size:9600 Overlap:0.0% p/dB[Pa]



Distortion (Noise) RCV (packed): 44.16 dB (0.62%) Ok

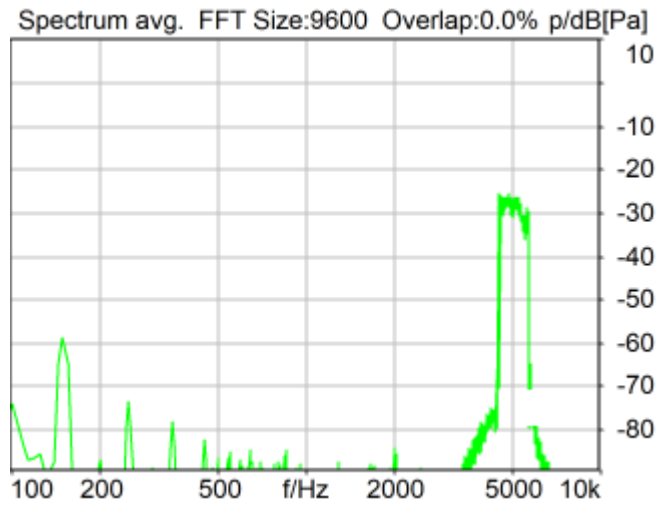
Ok

2023/11/23 18:31 ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

## 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): 46.91 dB (0.45%) Ok

Ok

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Unmodified HEAD acoustics Measurement Descriptor

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## **Report - Receive Distortion and Noise (Conversational Gain)**

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

<b>Region</b>	<b>Frequency</b>	<b>SDNR</b>
1	250Hz	22.33 dB
2	315Hz	24.27 dB
3	400Hz	25.09 dB
4	500Hz	27.57 dB
5	630Hz	28.42 dB
6	800Hz	25.62 dB
7	1000Hz	29.69 dB
8	1250Hz	34.32 dB
9	1600Hz	45.27 dB
10	2000Hz	42.89 dB
11	2500Hz	45.37 dB
12	3150Hz	46.11 dB
13	4000Hz	44.16 dB
14	5000Hz	46.91 dB

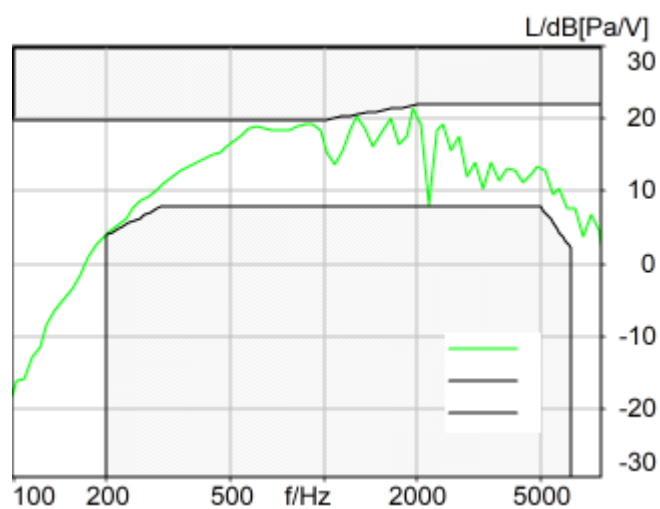
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.33dB at 250Hz.

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### 5.3 Frequency Response 2N FF

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



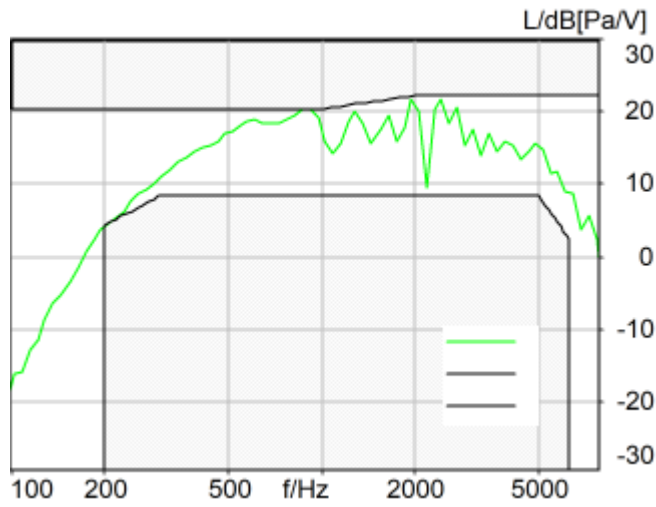
Absolute minimal distance  
0.22 dB at 1285.9 Hz Ok

Ok

2023/11/23 18:32 ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

### 5.3 Frequency Response 2N DF

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



Absolute minimal distance  
-0.01 dB at 924.0 Hz Not Ok

#### Not Ok

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Unmodified HEAD acoustics Measurement Descriptor