

Measurement Protocol

Measurement Object	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
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Project	460505
Report Generation Date	24/07/05 3:15
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	116.7	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.61	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.68	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.40	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.80	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.75	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.80	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.27	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.54	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.31	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.29	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.06	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.51	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.05	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.38	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.78	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	22.31	LTE Band

ACQUA Report

Title: LTE Band

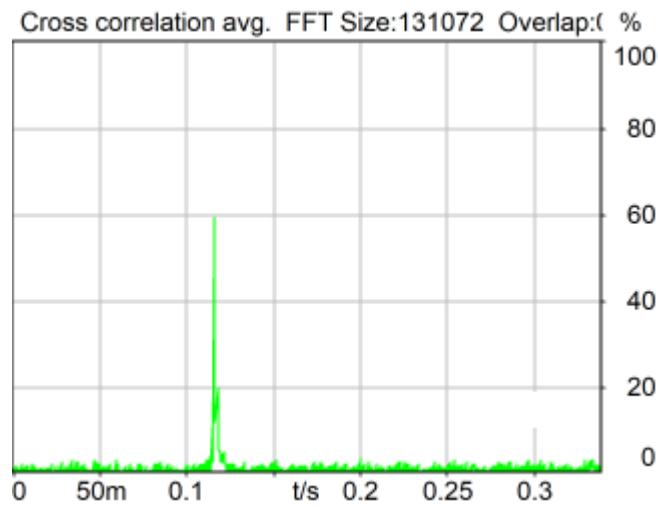
14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N

and Noise (Conversational Gain)		, (occured at 1250Hz)		14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.19	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	1.16	LTE Band 14_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch23330_8N

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

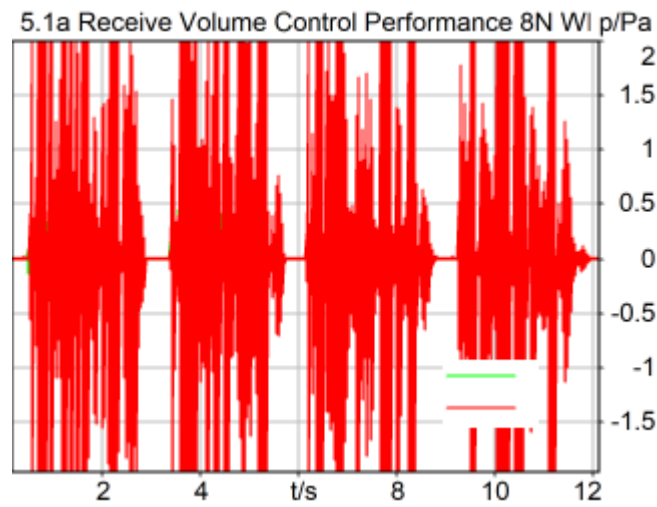


Delay (Cross): 116.7 ms

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5.1a Receive Volume Control Performance 8N WB

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



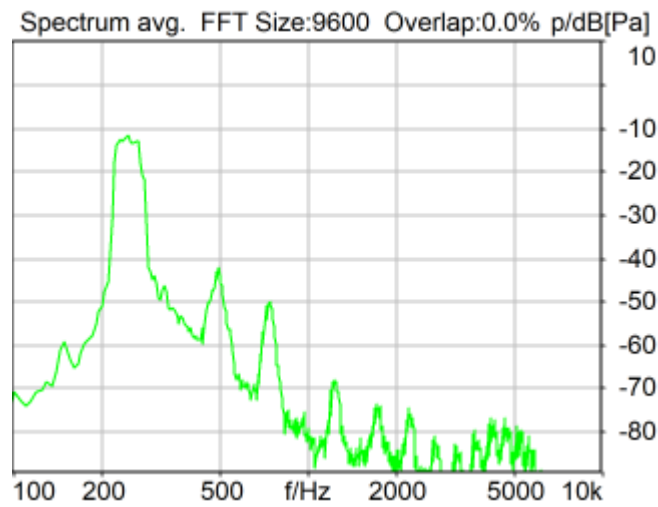
Speech Level RCV: 90.61 dB[SPL], Act.: 84.17% Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB

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



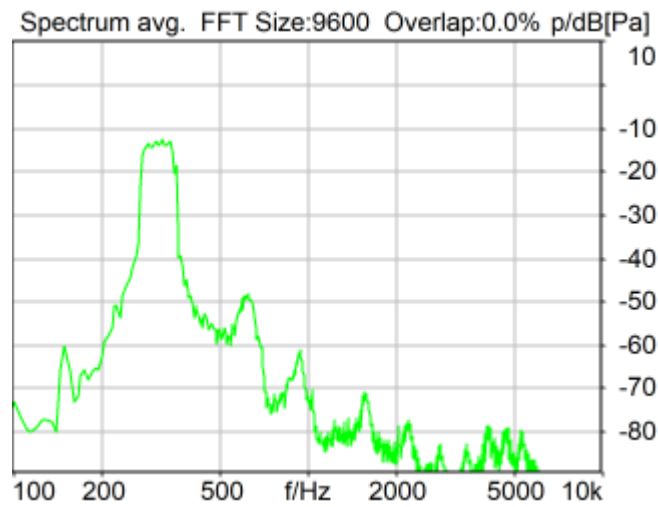
Distortion (Noise) RCV (packed): 32.68 dB (2.32%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB

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



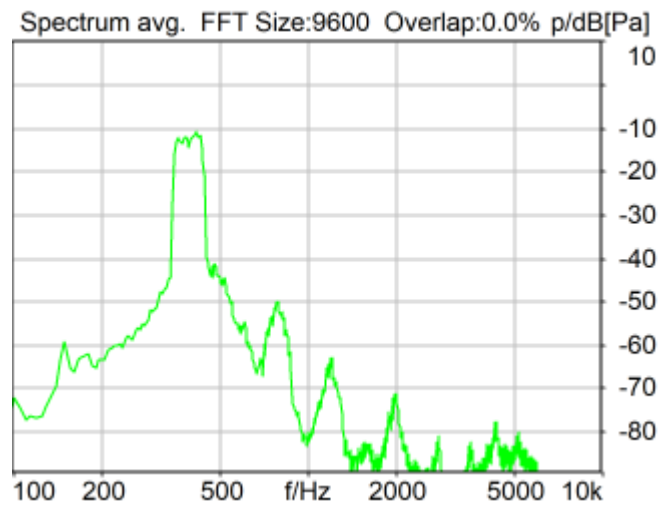
Distortion (Noise) RCV (packed): 35.40 dB (1.70%) Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz WB

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



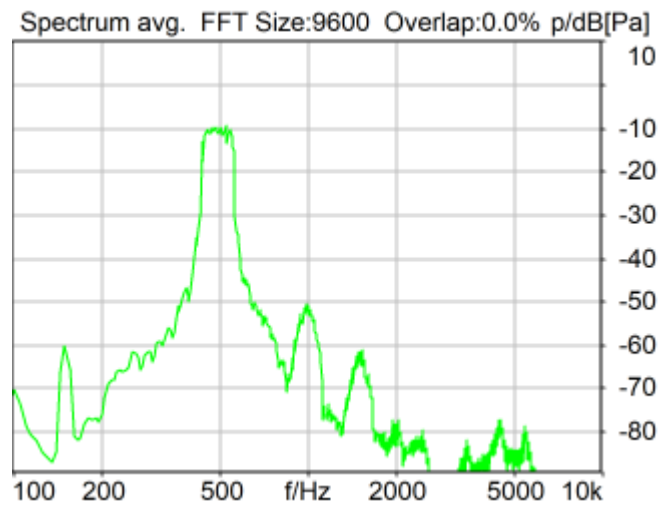
Distortion (Noise) RCV (packed): 34.80 dB (1.82%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz WB

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



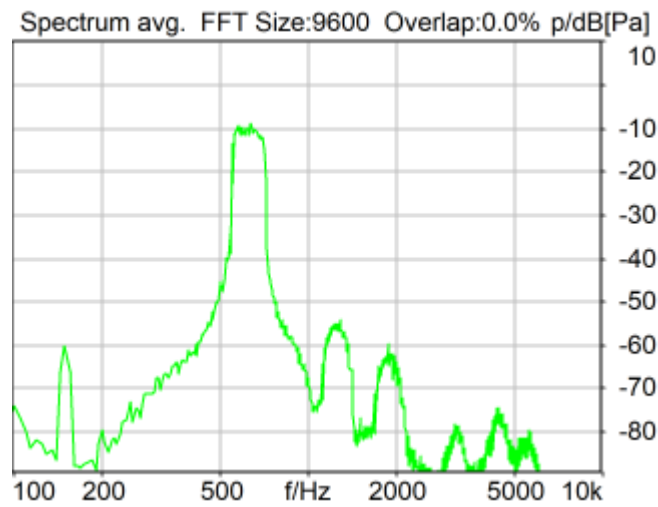
Distortion (Noise) RCV (packed): 36.75 dB (1.45%) Ok

Ok

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5.2 RCV Distortion and Noise - 630 Hz WB

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



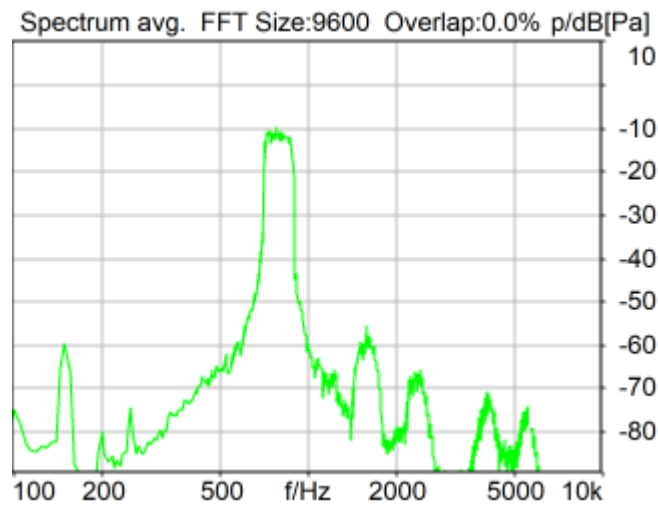
Distortion (Noise) RCV (packed): 38.80 dB (1.15%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz WB

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



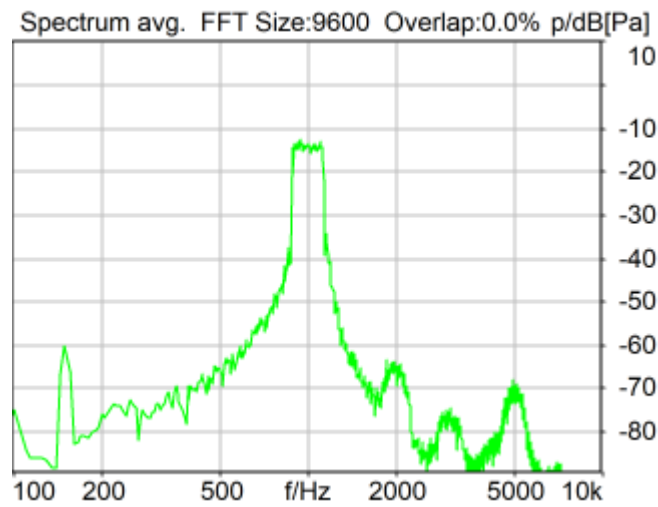
Distortion (Noise) RCV (packed): 40.27 dB (0.97%) Ok

Ok

24/06/25 20:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



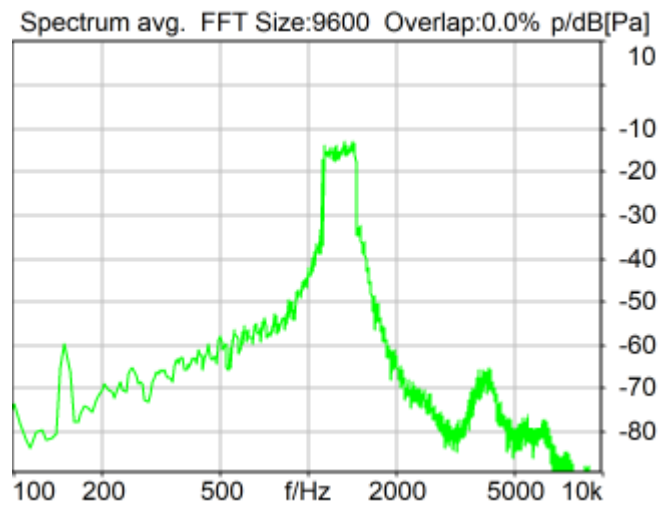
Distortion (Noise) RCV (packed): 31.54 dB (2.65%) Ok

Ok

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5.2 RCV Distortion and Noise - 1250 Hz WB

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



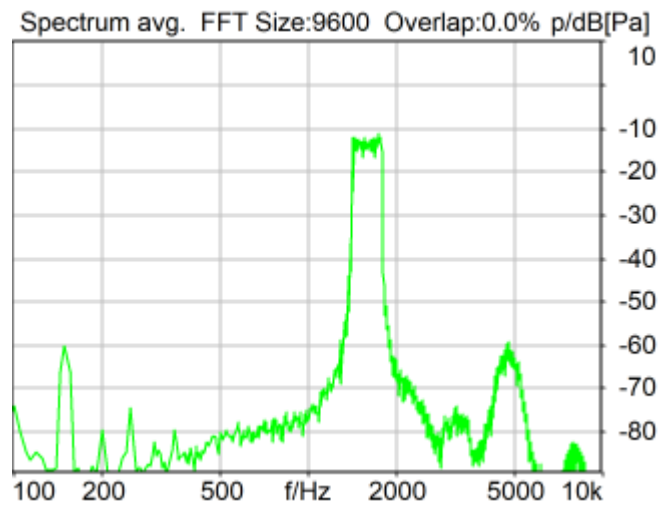
Distortion (Noise) RCV (packed): 22.31 dB (7.67%) Ok

Ok

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5.2 RCV Distortion and Noise - 1600 Hz WB

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



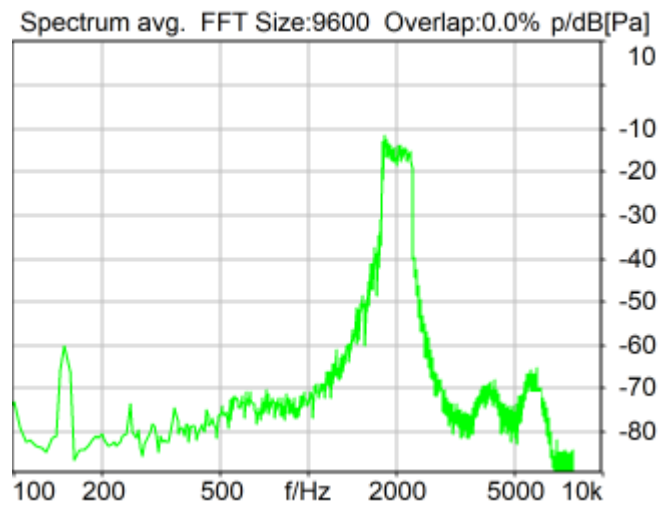
Distortion (Noise) RCV (packed): 41.29 dB (0.86%) Ok

Ok

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5.2 RCV Distortion and Noise - 2000 Hz WB

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



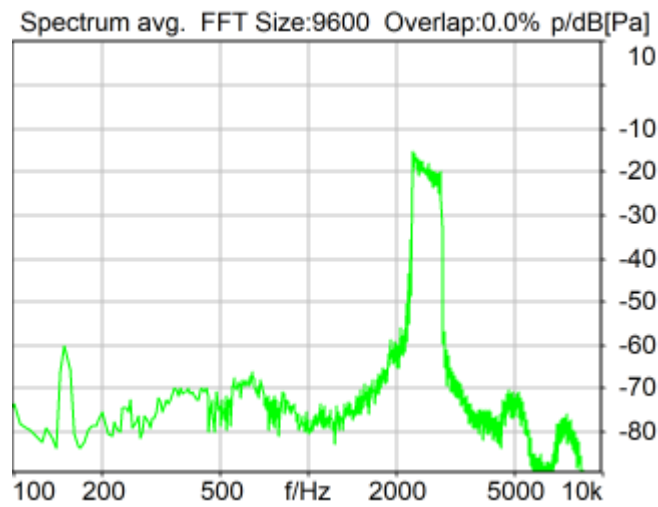
Distortion (Noise) RCV (packed): 28.06 dB (3.95%) Ok

Ok

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5.2 RCV Distortion and Noise - 2500 Hz WB

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



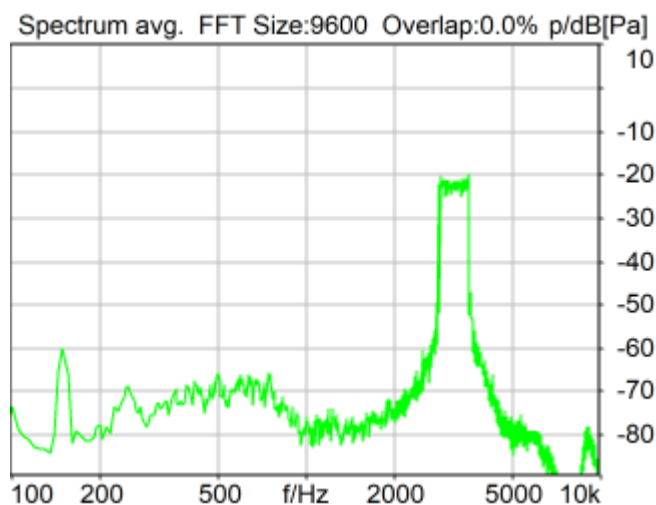
Distortion (Noise) RCV (packed): 36.51 dB (1.49%) Ok

Ok

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5.2 RCV Distortion and Noise - 3150 Hz WB

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



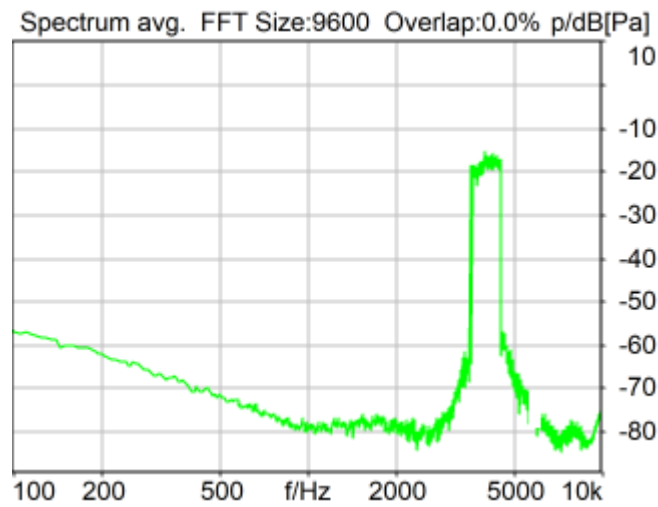
Distortion (Noise) RCV (packed): 34.05 dB (1.98%) Ok

Ok

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5.2 RCV Distortion and Noise - 4000 Hz WB

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



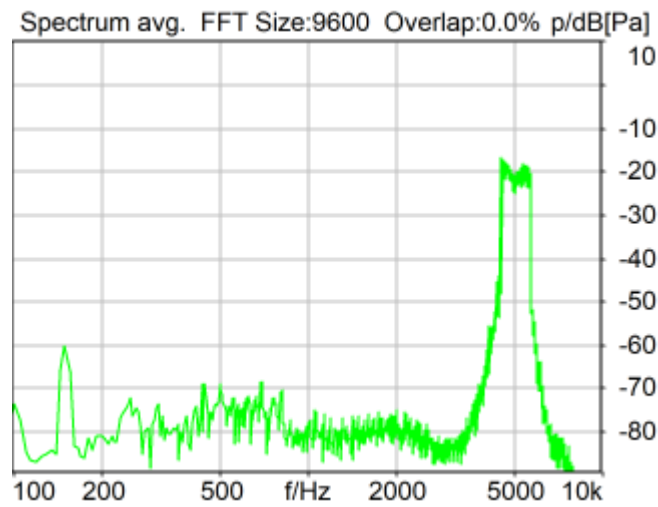
Distortion (Noise) RCV (packed): 41.38 dB (0.85%) Ok

Ok

24/06/25 20:16 ACQUA 5.1.200

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): 34.78 dB (1.82%) Ok

Ok

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Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	32.68 dB
2	315Hz	35.40 dB
3	400Hz	34.80 dB
4	500Hz	36.75 dB
5	630Hz	38.80 dB
6	800Hz	40.27 dB
7	1000Hz	31.54 dB
8	1250Hz	22.31 dB
9	1600Hz	41.29 dB
10	2000Hz	28.06 dB
11	2500Hz	36.51 dB
12	3150Hz	34.05 dB
13	4000Hz	41.38 dB
14	5000Hz	34.78 dB

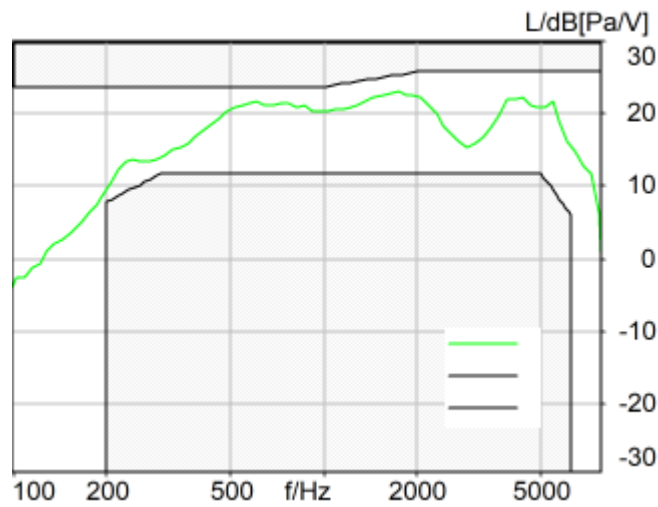
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.31dB at 1250Hz.

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5.3 Frequency Response 8N FF

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



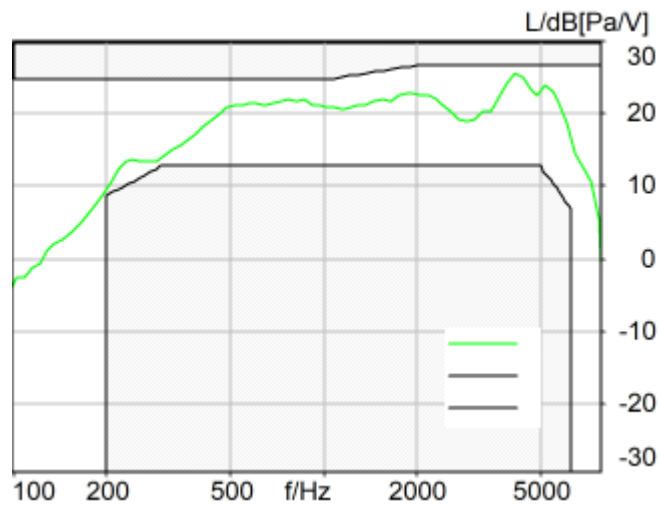
Absolute minimal distance
2.19 dB at 611.7 Hz Ok

Ok

24/06/25 20:19 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance

1.16 dB at 4119.5 Hz Ok

Ok

24/06/25 20:19 ACQUA 5.1.200

ACQUA Report
WB 24.4kbps_Ch641666_8N

Title: 02_FR1 n48_40M_QPSK_1RB_1Offset_EVS

Measurement Protocol

Measurement Object	FR1 n48_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch641666_8N
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Project	460505
Report Generation Date	24/07/04 6:05
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	269.8	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.27	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.75	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.14	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.64	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.98	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.70	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.66	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.34	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.44	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.87	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.21	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.85	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.64	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.61	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.06	FR1 n48_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch641666_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	21.44	FR1

ACQUA Report
WB 24.4kbps_Ch641666_8N

Title: FR1 n48_40M_QPSK_1RB_1Offset_EVS

and Noise (Conversational Gain)		, (occured at 1250Hz)		n48_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch641666_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 288.4 Hz	1.37	FR1 n48_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch641666_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 288.4 Hz	1.03	FR1 n48_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch641666_8N

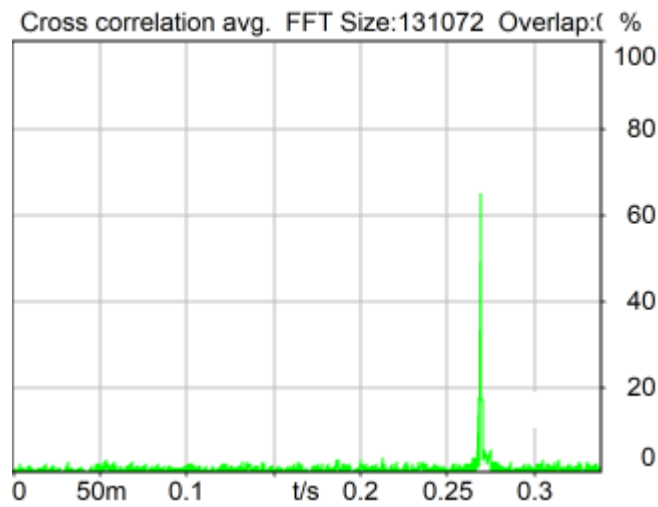
ACQUA Report
WB 24.4kbps_Ch641666_8N

Title: FR1 n48_40M_QPSK_1RB_1Offset_EVS

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

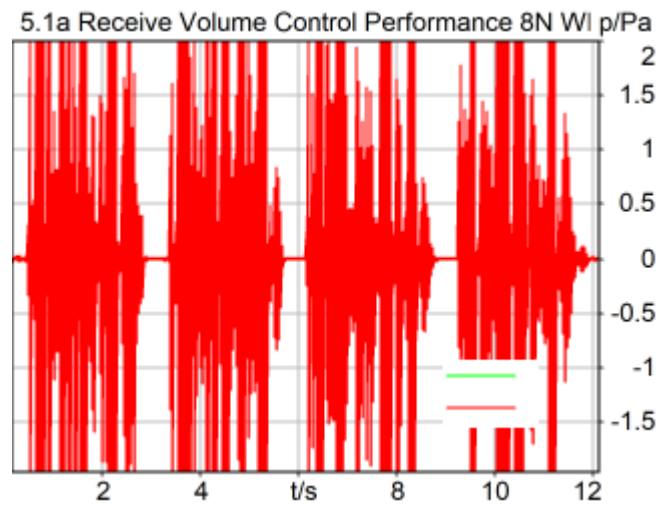


Delay (Cross): 269.8 ms

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5.1a Receive Volume Control Performance 8N WB

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



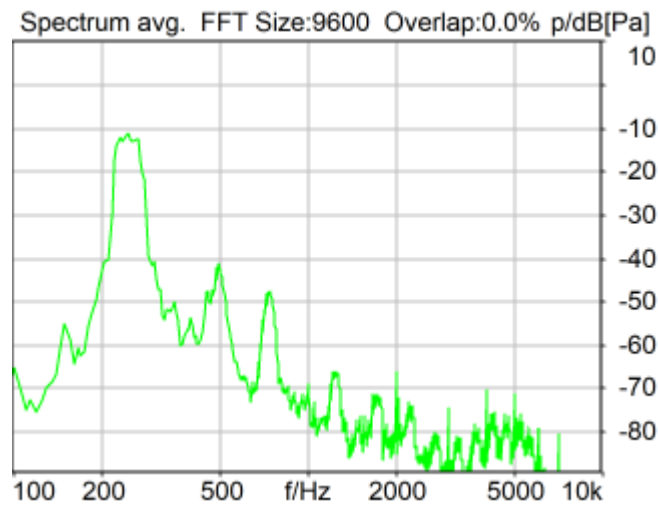
Speech Level RCV: 91.27 dB[SPL], Act.: 83.76% Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB

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



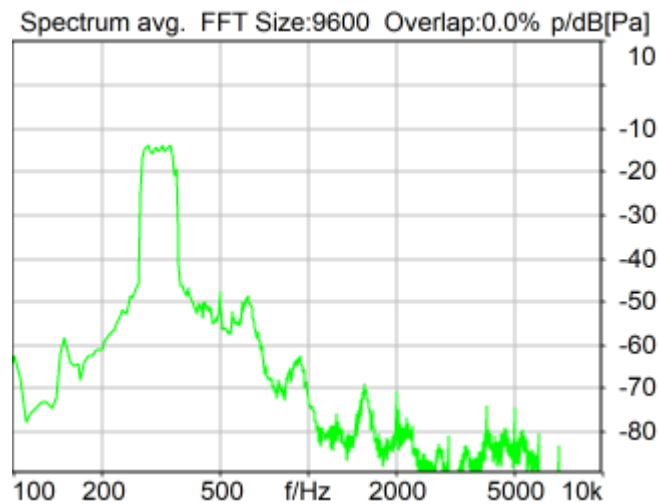
Distortion (Noise) RCV (packed): 31.75 dB (2.58%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB

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



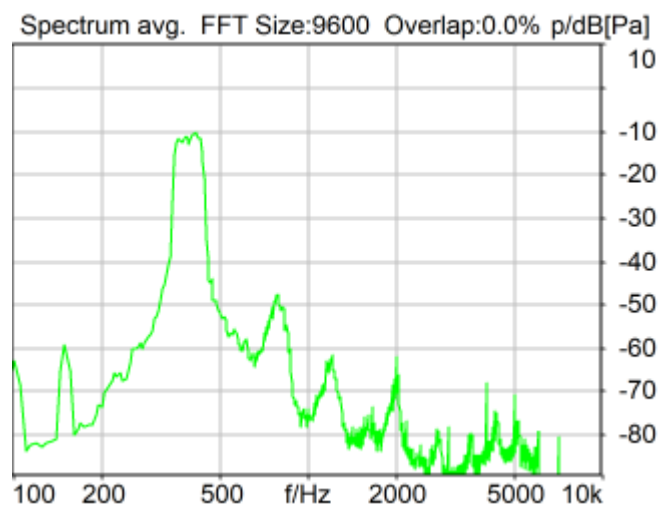
Distortion (Noise) RCV (packed): 34.14 dB (1.96%) Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz WB

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



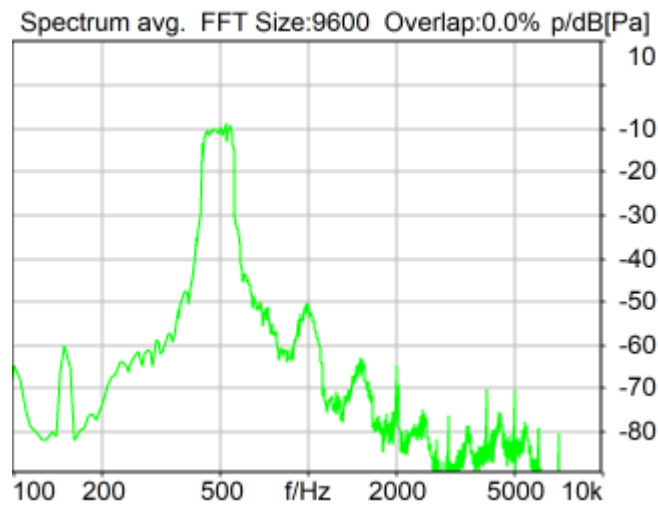
Distortion (Noise) RCV (packed): 36.64 dB (1.47%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz WB

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



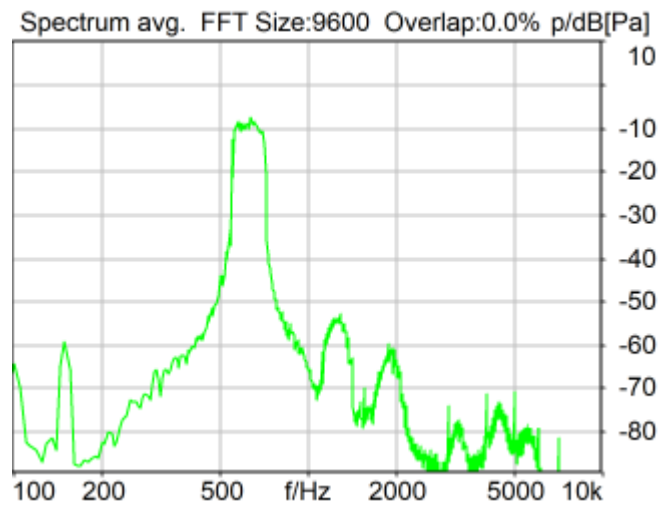
Distortion (Noise) RCV (packed): 35.98 dB (1.59%) Ok

Ok

24/07/04 5:59 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



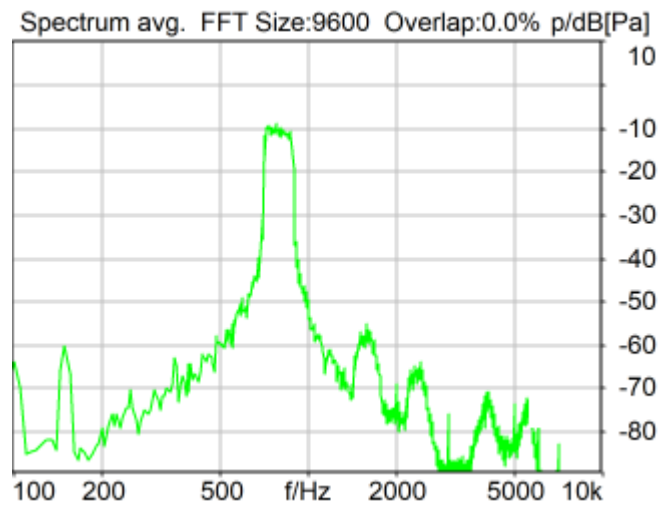
Distortion (Noise) RCV (packed): 38.70 dB (1.16%) Ok

Ok

24/07/04 6:00 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



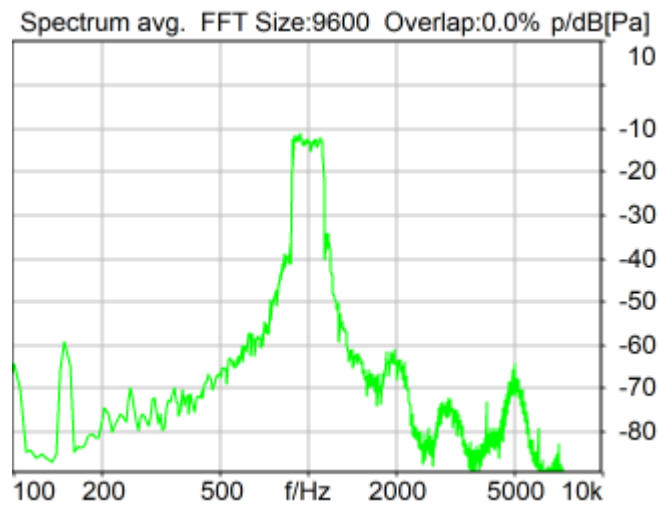
Distortion (Noise) RCV (packed): 36.66 dB (1.47%) Ok

Ok

24/07/04 6:00 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



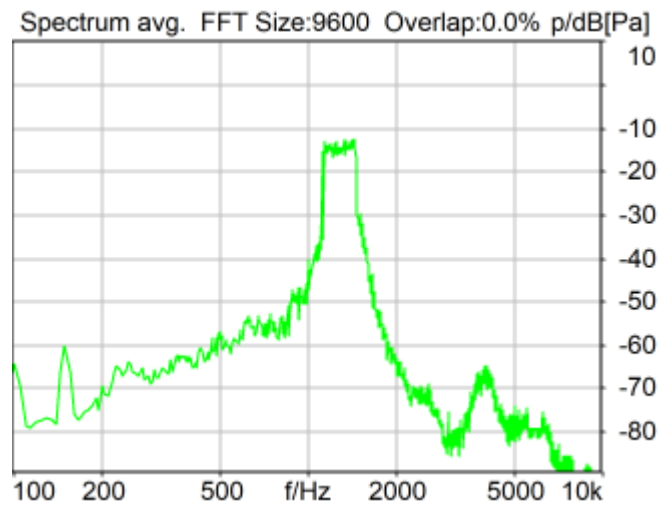
Distortion (Noise) RCV (packed): 29.34 dB (3.41%) Ok

Ok

24/07/04 6:00 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



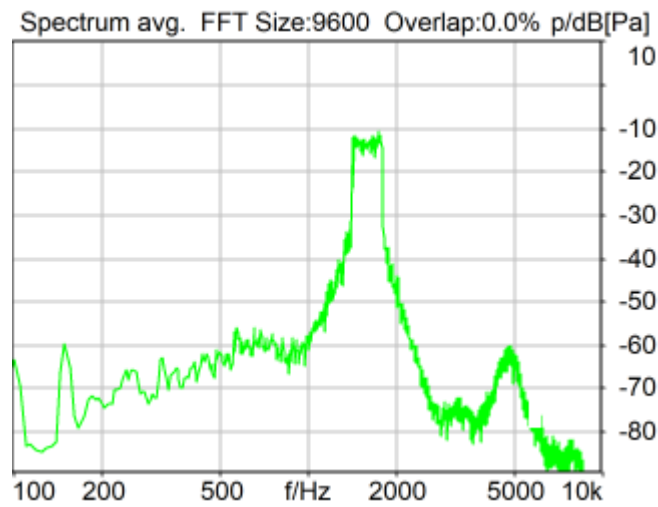
Distortion (Noise) RCV (packed): 21.44 dB (8.47%) Ok

Ok

24/07/04 6:01 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



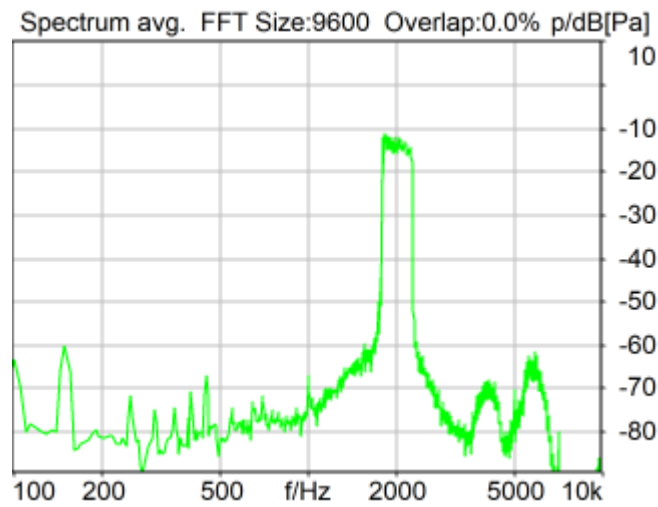
Distortion (Noise) RCV (packed): 26.87 dB (4.53%) Ok

Ok

24/07/04 6:01 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



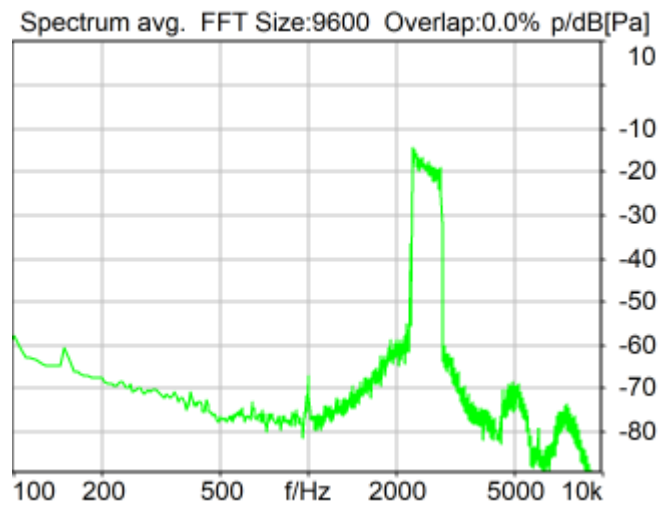
Distortion (Noise) RCV (packed): 43.21 dB (0.69%) Ok

Ok

24/07/04 6:02 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



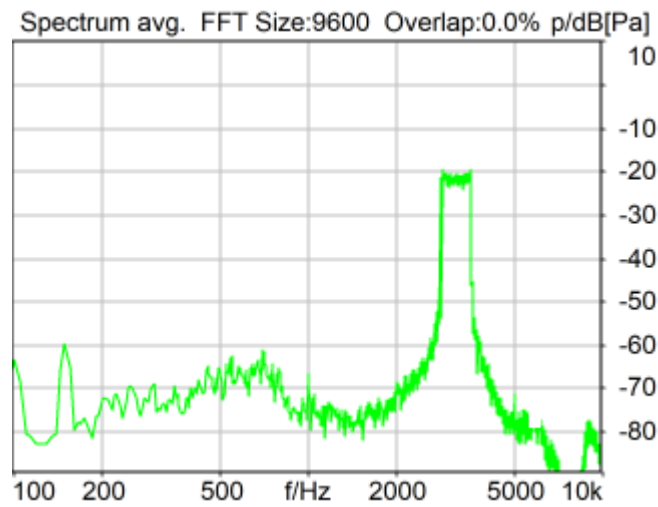
Distortion (Noise) RCV (packed): 39.85 dB (1.02%) Ok

Ok

24/07/04 6:02 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



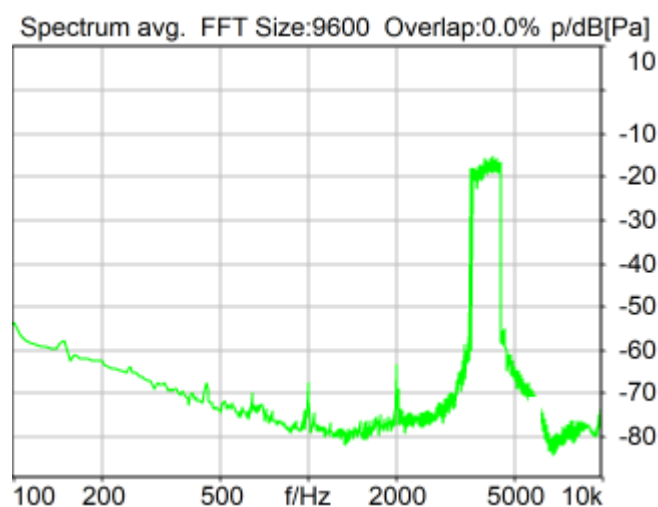
Distortion (Noise) RCV (packed): 34.64 dB (1.85%) Ok

Ok

24/07/04 6:03 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



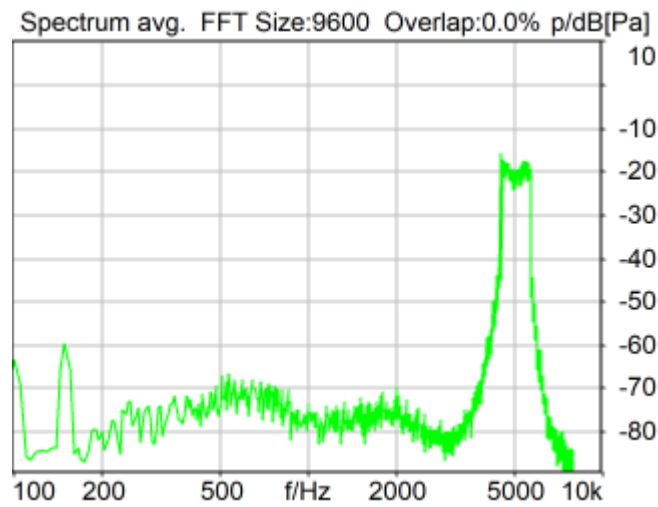
Distortion (Noise) RCV (packed): 37.61 dB (1.32%) Ok

Ok

24/07/04 6:03 ACQUA 5.1.200

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): 32.06 dB (2.50%) Ok

Ok

24/07/04 6:03 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	31.75 dB
2	315Hz	34.14 dB
3	400Hz	36.64 dB
4	500Hz	35.98 dB
5	630Hz	38.70 dB
6	800Hz	36.66 dB
7	1000Hz	29.34 dB
8	1250Hz	21.44 dB
9	1600Hz	26.87 dB
10	2000Hz	43.21 dB
11	2500Hz	39.85 dB
12	3150Hz	34.64 dB
13	4000Hz	37.61 dB
14	5000Hz	32.06 dB

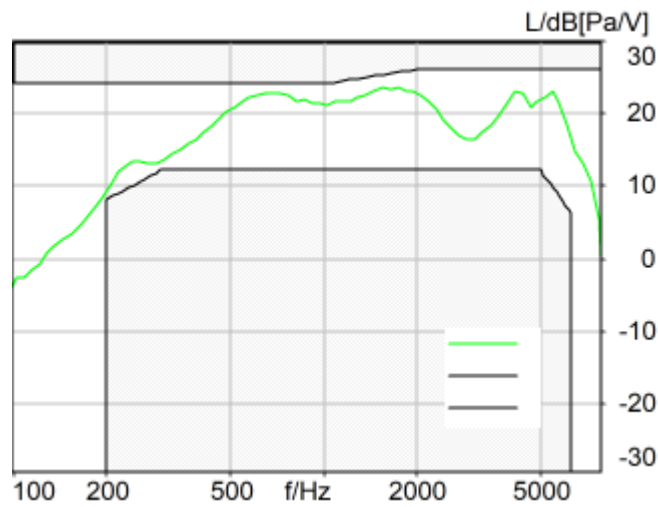
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.44dB at 1250Hz.

24/07/04 6:04 ACQUA

5.3 Frequency Response 8N FF

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



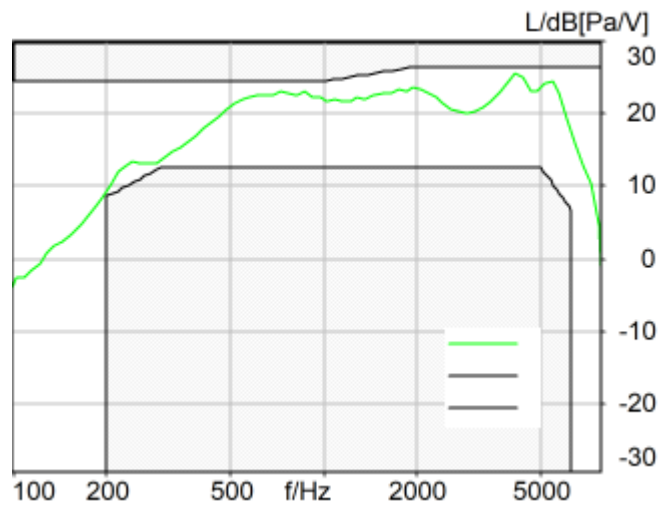
Absolute minimal distance
1.37 dB at 288.4 Hz Ok

Ok

24/07/04 6:04 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.03 dB at 288.4 Hz Ok

Ok

24/07/04 6:04 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 24.4kbps_Ch60_2N
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Project	460505
Report Generation Date	24/08/19 15:36
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	201.0	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.88	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.21	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.08	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.37	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.18	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.19	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.32	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.93	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.40	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.40	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.08	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.08	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.41	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.68	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.50	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	22.40	WLAN5GHz_802.11a

ACQUA Report
4kbps_Ch60_2N

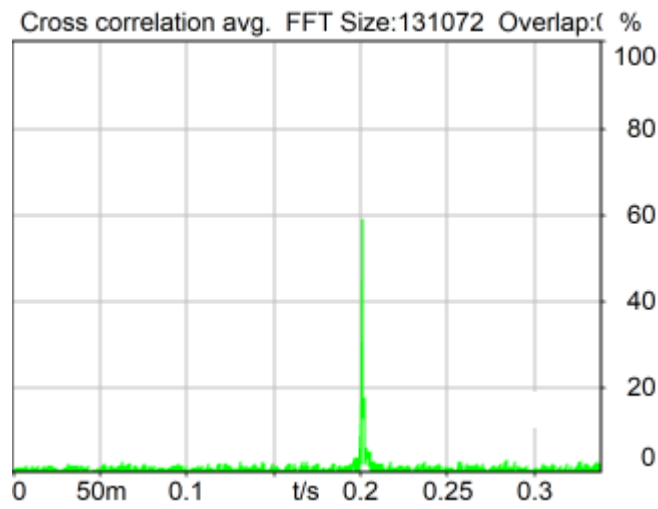
Title: WLAN5GHz_802.11a 6Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 689.1 Hz	0.79	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.39	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N

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

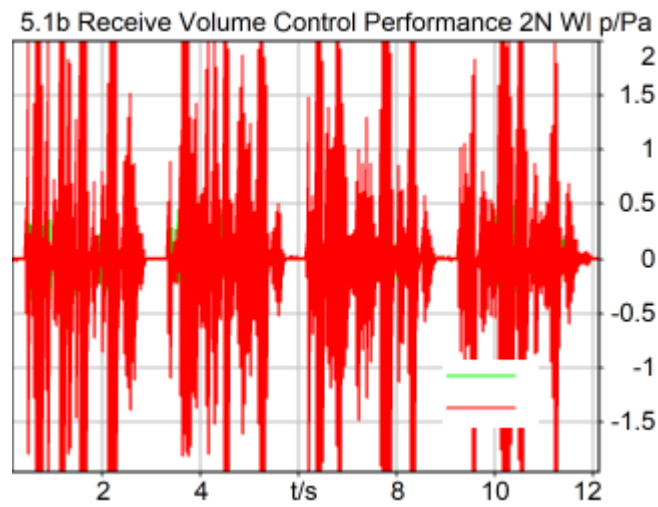


Delay (Cross): 201.0 ms

24/08/19 15:28 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



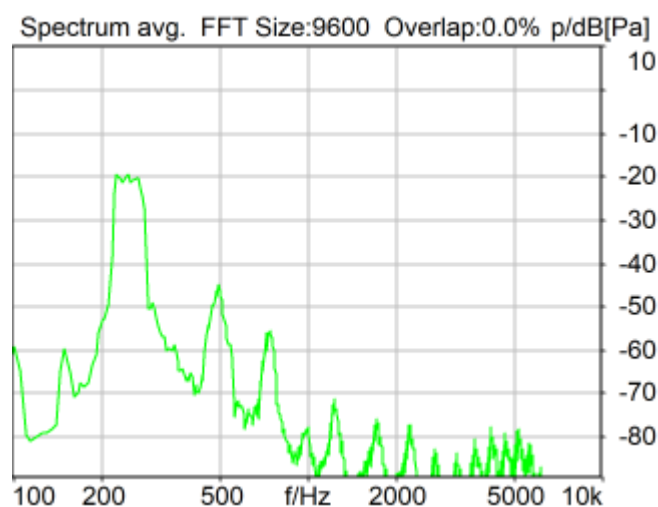
Speech Level RCV: 85.88 dB[SPL], Act.: 85.59% Ok

Ok

24/08/19 15:28 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



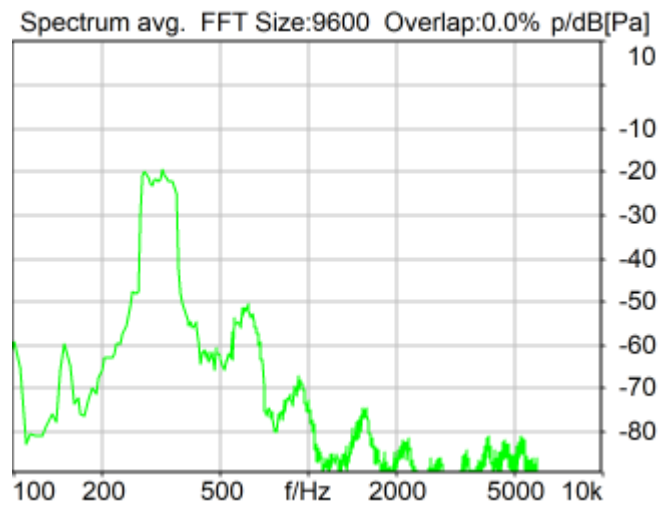
Distortion (Noise) RCV (packed): 29.21 dB (3.46%) Ok

Ok

24/08/19 15:28 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



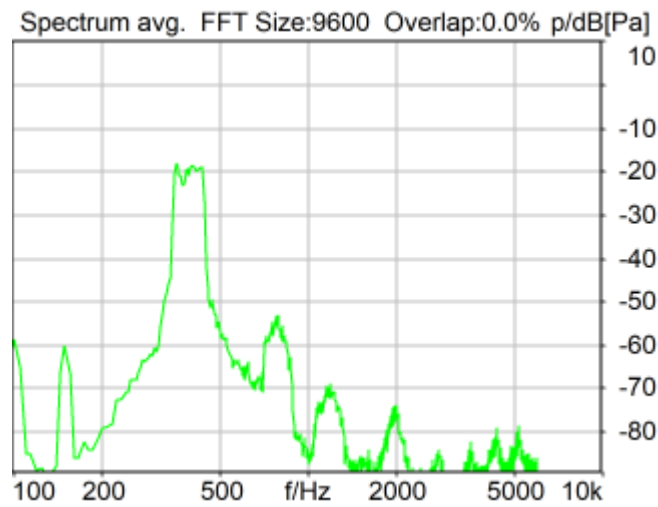
Distortion (Noise) RCV (packed): 31.08 dB (2.79%) Ok

Ok

24/08/19 15:29 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



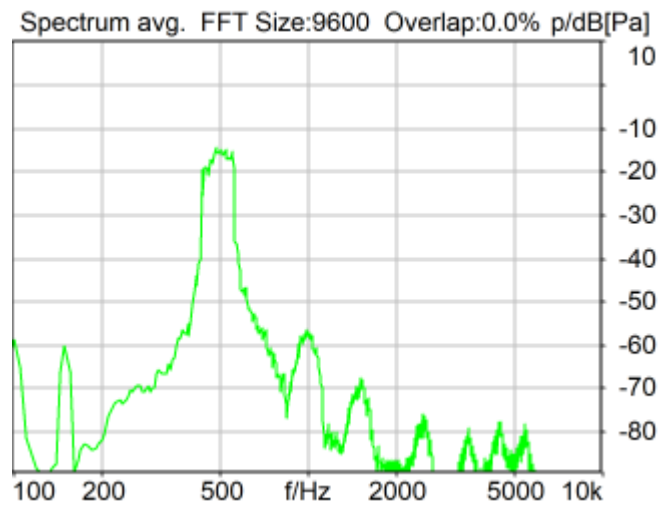
Distortion (Noise) RCV (packed): 34.37 dB (1.91%) Ok

Ok

24/08/19 15:29 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



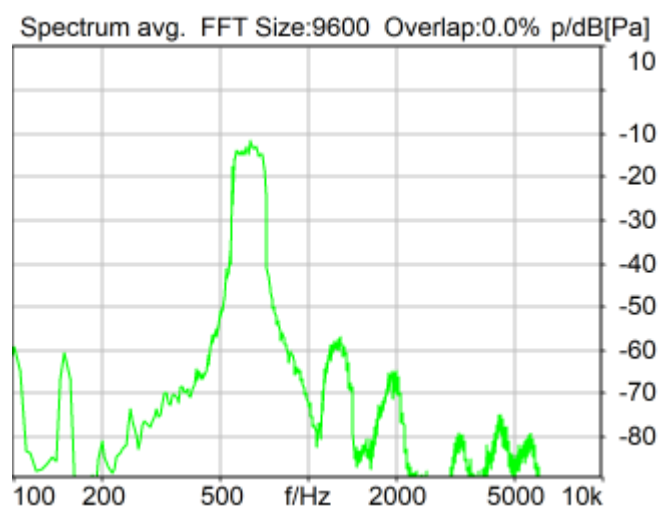
Distortion (Noise) RCV (packed): 35.18 dB (1.74%) Ok

Ok

24/08/19 15:30 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



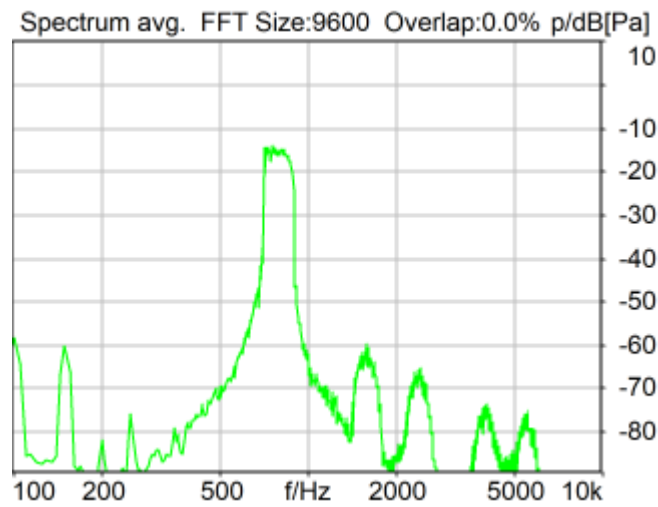
Distortion (Noise) RCV (packed): 38.19 dB (1.23%) Ok

Ok

24/08/19 15:30 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



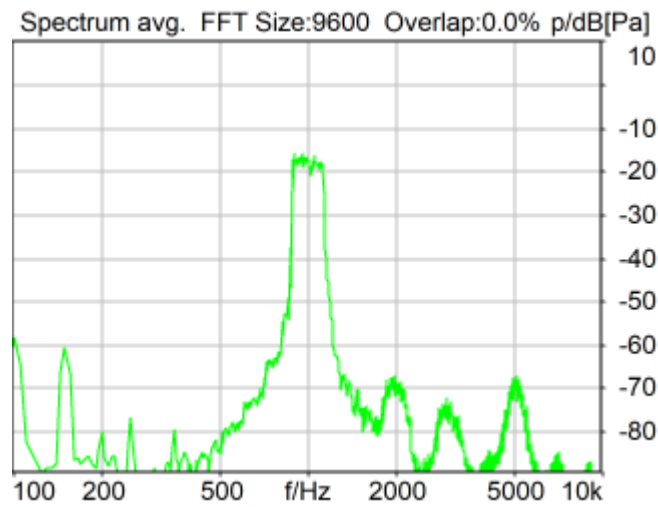
Distortion (Noise) RCV (packed): 39.32 dB (1.08%) Ok

Ok

24/08/19 15:31 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



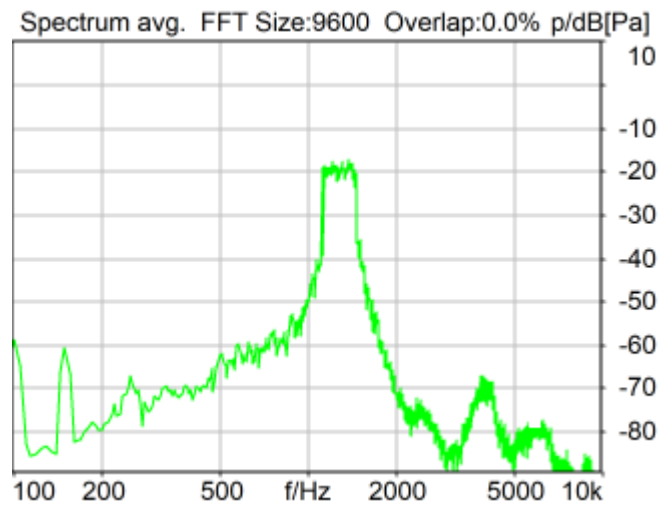
Distortion (Noise) RCV (packed): 35.93 dB (1.60%) Ok

Ok

24/08/19 15:31 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



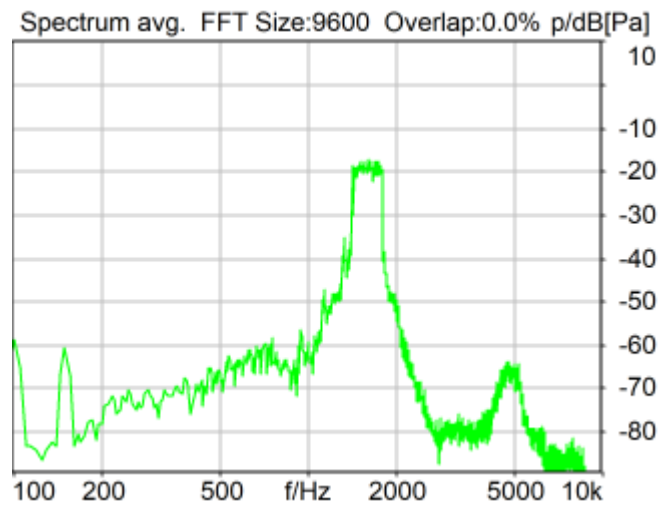
Distortion (Noise) RCV (packed): 22.40 dB (7.58%) Ok

Ok

24/08/19 15:32 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



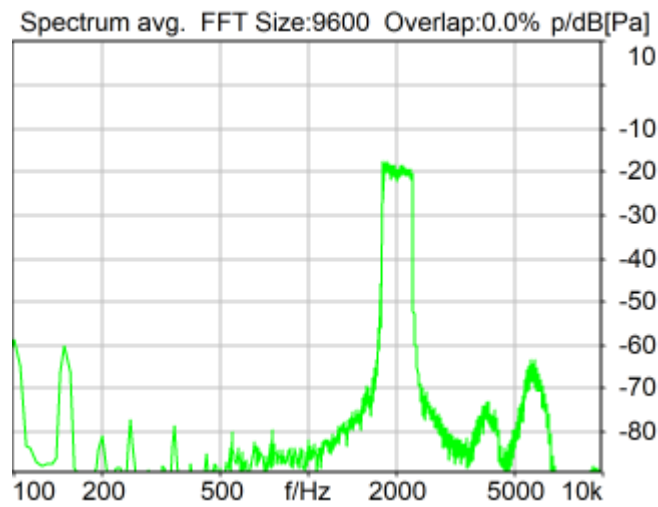
Distortion (Noise) RCV (packed): 24.40 dB (6.02%) Ok

Ok

24/08/19 15:32 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



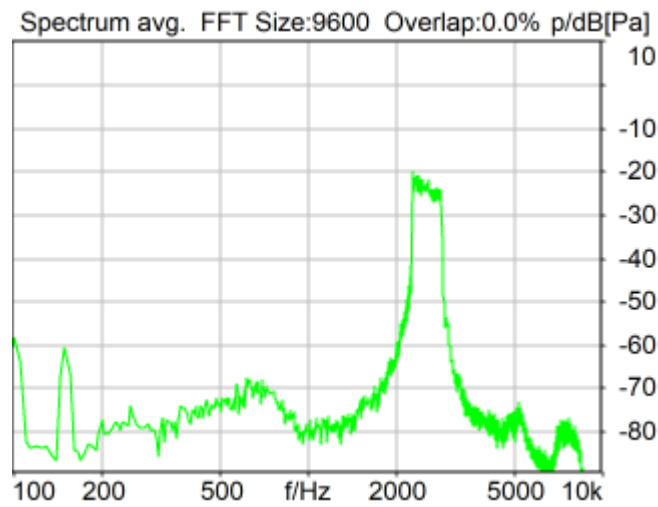
Distortion (Noise) RCV (packed): 41.08 dB (0.88%) Ok

Ok

24/08/19 15:32 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



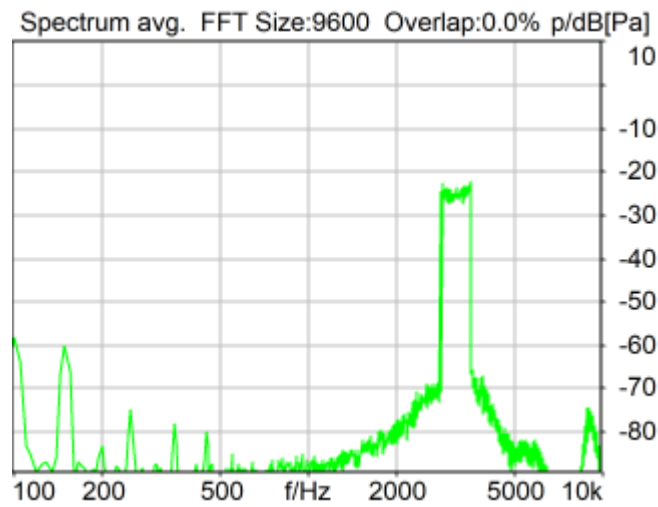
Distortion (Noise) RCV (packed): 30.08 dB (3.13%) Ok

Ok

24/08/19 15:33 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



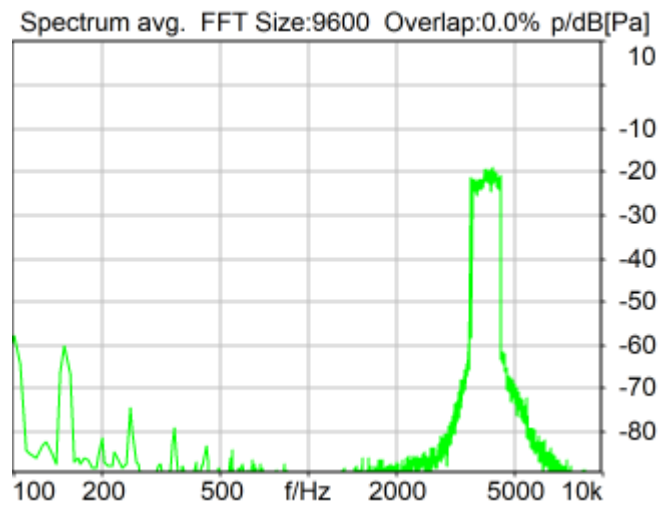
Distortion (Noise) RCV (packed): 42.41 dB (0.76%) Ok

Ok

24/08/19 15:33 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



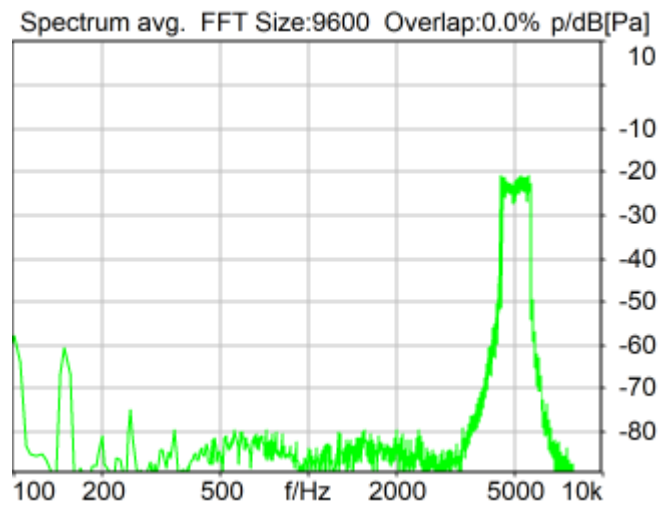
Distortion (Noise) RCV (packed): 43.68 dB (0.65%) Ok

Ok

24/08/19 15:34 ACQUA 5.1.200

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): 33.50 dB (2.11%) Ok

Ok

24/08/19 15:34 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	29.21 dB
2	315Hz	31.08 dB
3	400Hz	34.37 dB
4	500Hz	35.18 dB
5	630Hz	38.19 dB
6	800Hz	39.32 dB
7	1000Hz	35.93 dB
8	1250Hz	22.40 dB
9	1600Hz	24.40 dB
10	2000Hz	41.08 dB
11	2500Hz	30.08 dB
12	3150Hz	42.41 dB
13	4000Hz	43.68 dB
14	5000Hz	33.50 dB

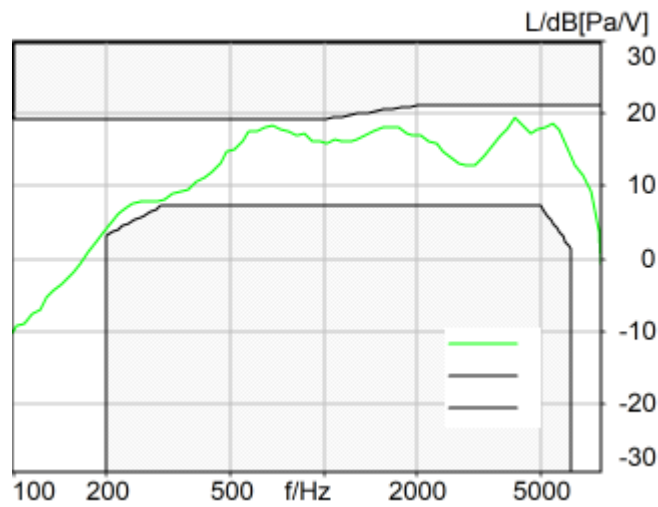
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.40dB at 1250Hz.

24/08/19 15:34 ACQUA

5.3 Frequency Response 2N FF

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



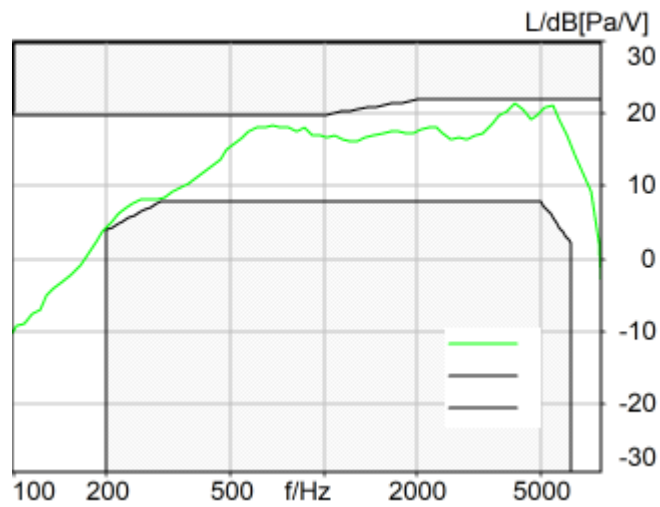
Absolute minimal distance
0.79 dB at 689.1 Hz Ok

Ok

24/08/19 15:35 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.39 dB at 4119.5 Hz Ok

Ok

24/08/19 15:35 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 24.4kbps_Ch157_8N
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Project	460505
Report Generation Date	24/08/19 17:14
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	217.6	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	91.07	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.37	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.96	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.59	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.30	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.25	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.96	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.41	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.21	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.27	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.02	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.62	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.43	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.16	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.68	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.21	WLAN5GHz_802.11a

ACQUA Report
4kbps_Ch157_8N

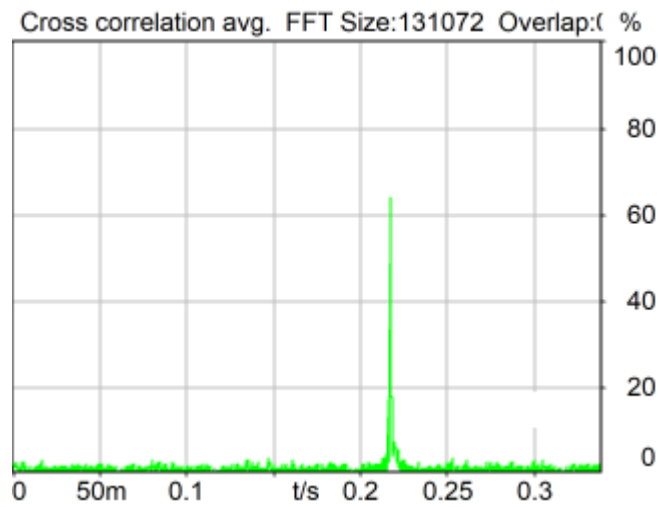
Title: WLAN5GHz_802.11a 6Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.52	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 776.5 Hz	1.48	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch157_8N

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

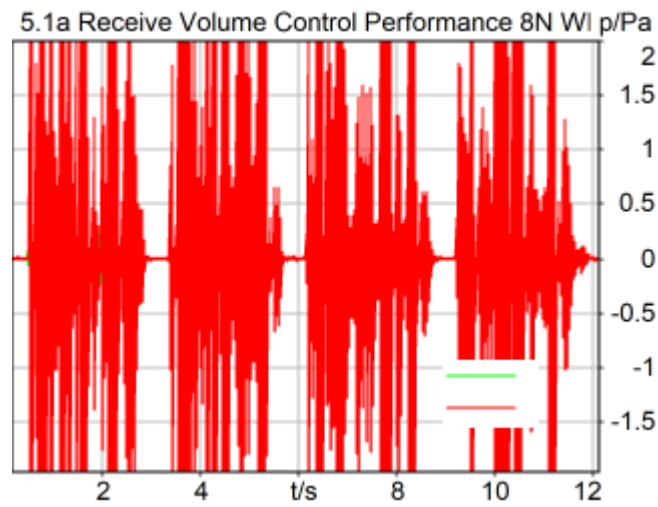


Delay (Cross): 217.6 ms

24/08/19 17:06 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



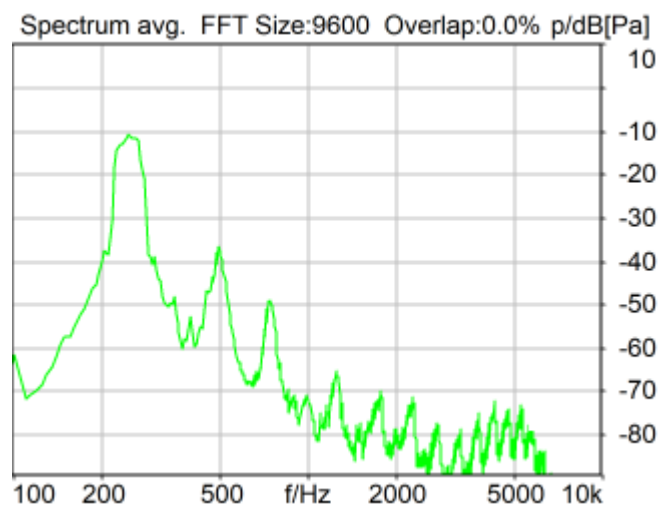
Speech Level RCV: 91.07 dB[SPL], Act.: 83.84% Ok

Ok

24/08/19 17:06 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



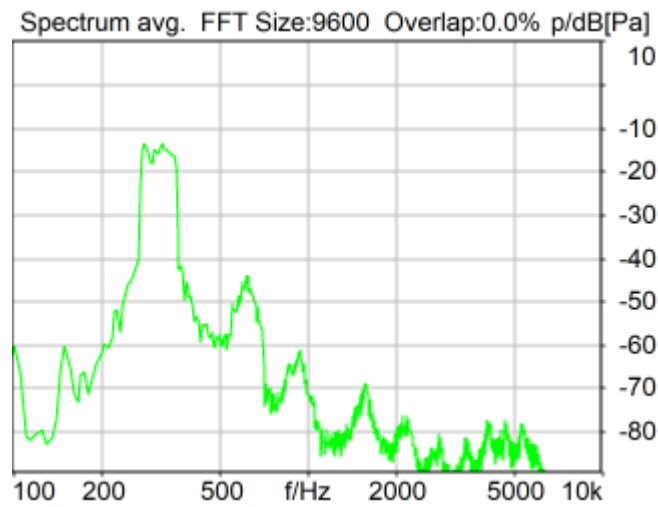
Distortion (Noise) RCV (packed): 29.37 dB (3.40%) Ok

Ok

24/08/19 17:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



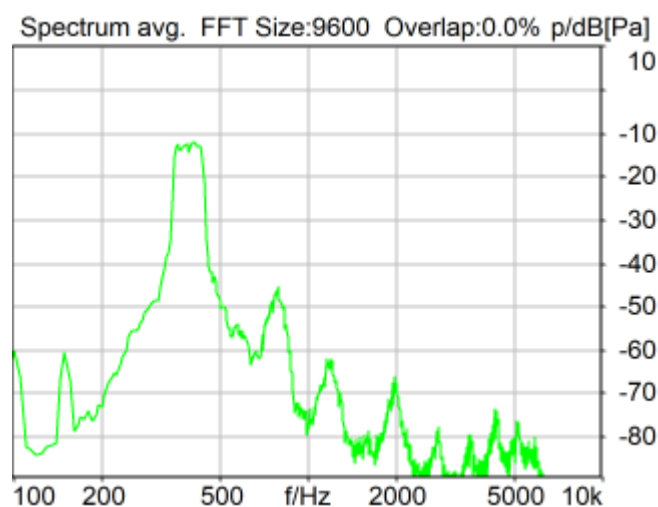
Distortion (Noise) RCV (packed): 31.96 dB (2.52%) Ok

Ok

24/08/19 17:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



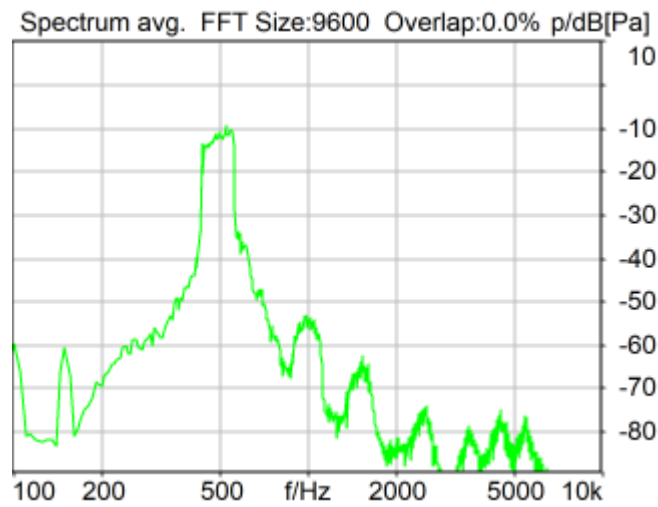
Distortion (Noise) RCV (packed): 33.59 dB (2.09%) Ok

Ok

24/08/19 17:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



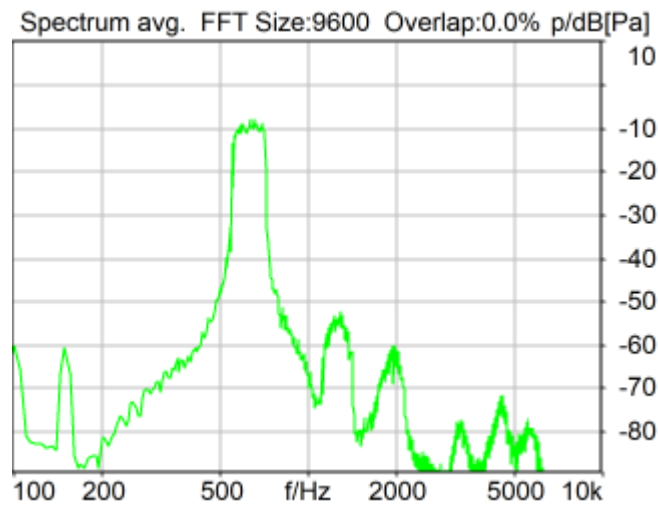
Distortion (Noise) RCV (packed): 31.30 dB (2.72%) Ok

Ok

24/08/19 17:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



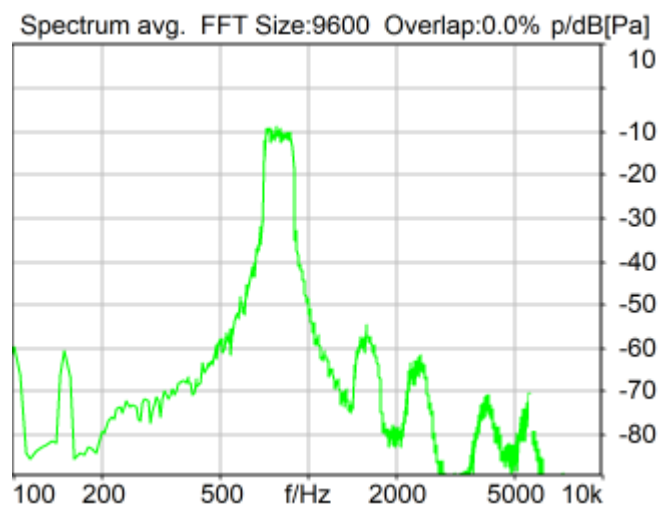
Distortion (Noise) RCV (packed): 38.25 dB (1.22%) Ok

Ok

24/08/19 17:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



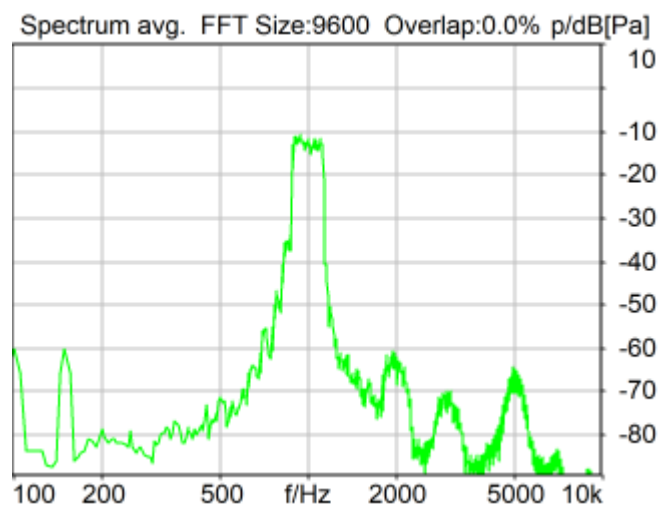
Distortion (Noise) RCV (packed): 33.96 dB (2.01%) Ok

Ok

24/08/19 17:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



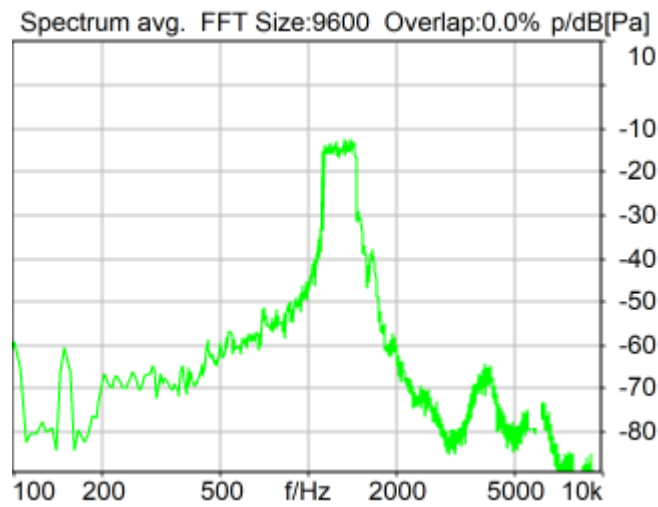
Distortion (Noise) RCV (packed): 32.41 dB (2.40%) Ok

Ok

24/08/19 17:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



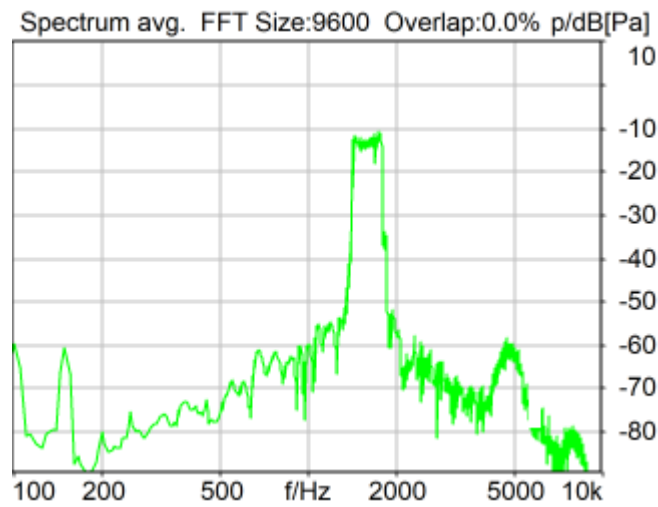
Distortion (Noise) RCV (packed): 20.21 dB (9.76%) Ok

Ok

24/08/19 17:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



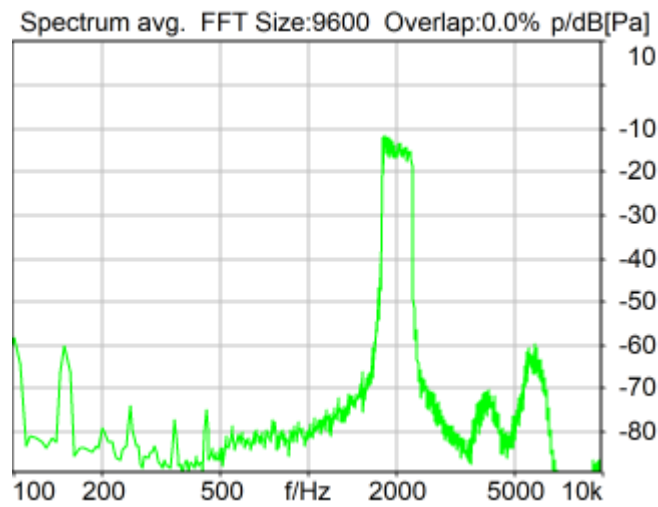
Distortion (Noise) RCV (packed): 32.27 dB (2.43%) Ok

Ok

24/08/19 17:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



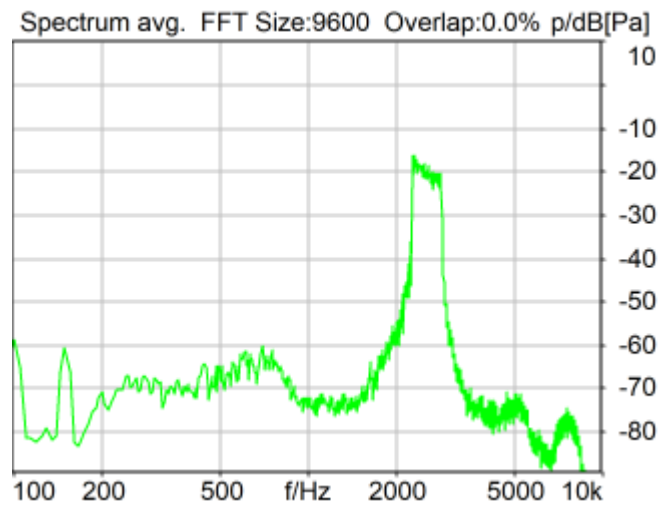
Distortion (Noise) RCV (packed): 42.02 dB (0.79%) Ok

Ok

24/08/19 17:11 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



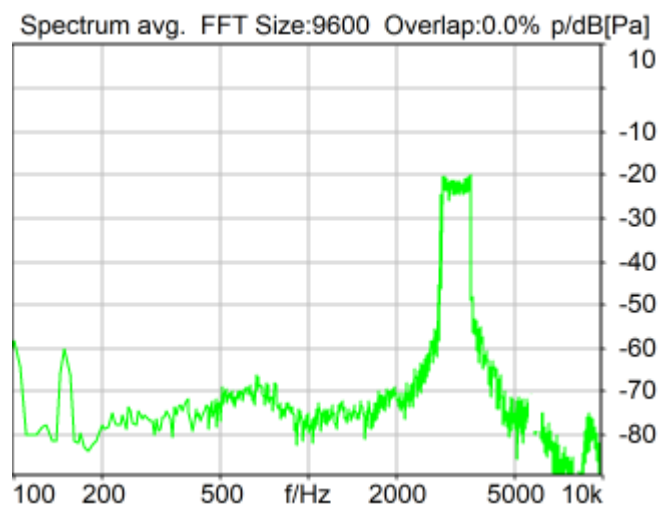
Distortion (Noise) RCV (packed): 29.62 dB (3.30%) Ok

Ok

24/08/19 17:11 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



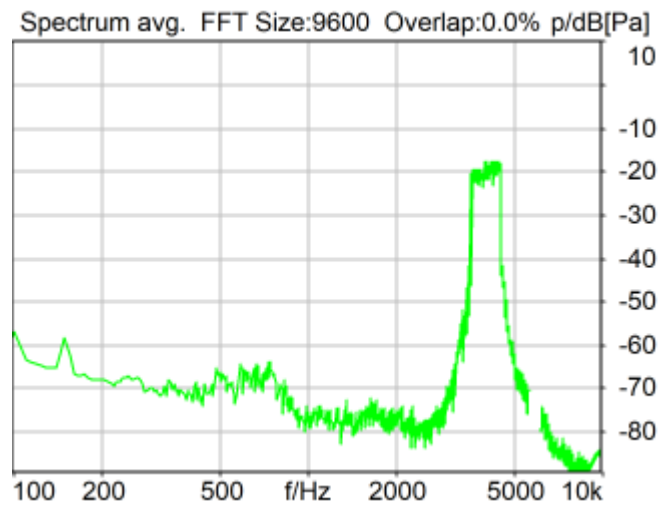
Distortion (Noise) RCV (packed): 32.43 dB (2.39%) Ok

Ok

24/08/19 17:11 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



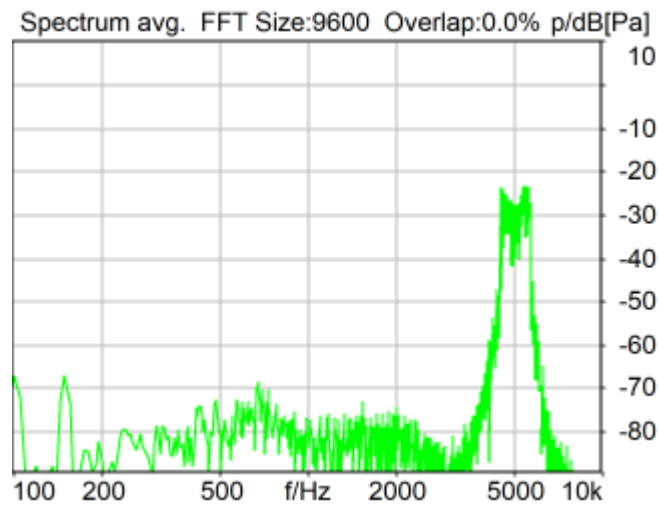
Distortion (Noise) RCV (packed): 30.16 dB (3.10%) Ok

Ok

24/08/19 17:12 ACQUA 5.1.200

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): 27.68 dB (4.13%) Ok

Ok

24/08/19 17:12 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	29.37 dB
2	315Hz	31.96 dB
3	400Hz	33.59 dB
4	500Hz	31.30 dB
5	630Hz	38.25 dB
6	800Hz	33.96 dB
7	1000Hz	32.41 dB
8	1250Hz	20.21 dB
9	1600Hz	32.27 dB
10	2000Hz	42.02 dB
11	2500Hz	29.62 dB
12	3150Hz	32.43 dB
13	4000Hz	30.16 dB
14	5000Hz	27.68 dB

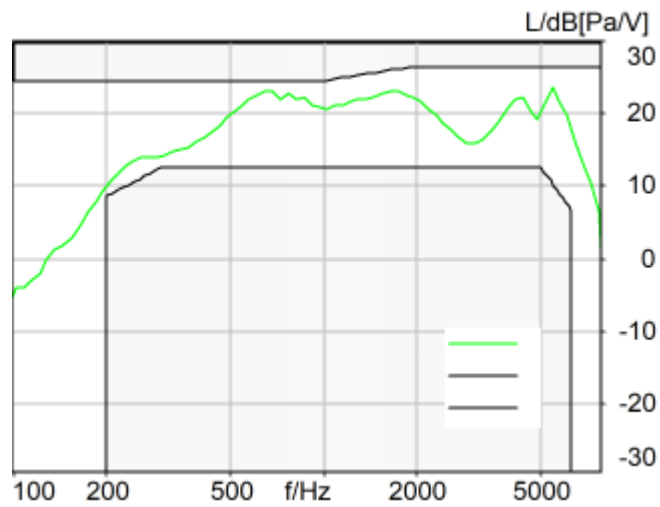
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.21dB at 1250Hz.

24/08/19 17:12 ACQUA

5.3 Frequency Response 8N FF

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



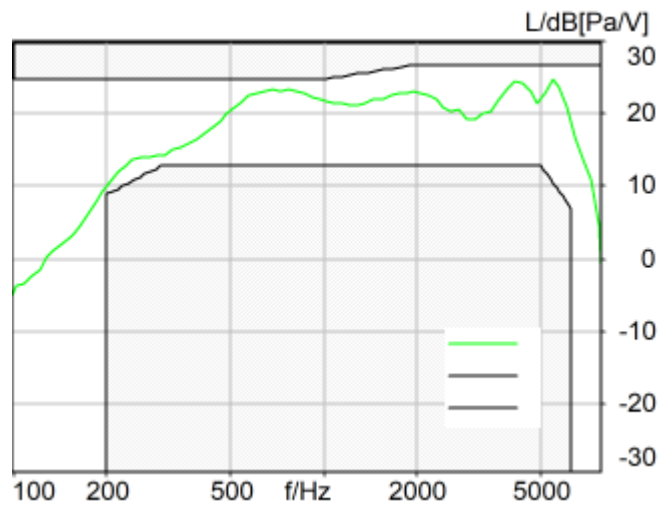
Absolute minimal distance
1.52 dB at 649.1 Hz Ok

Ok

24/08/19 17:13 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.48 dB at 776.5 Hz Ok

Ok

24/08/19 17:13 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR WB 6.60kbps_Ch9400_2N
--------------------	--

Project	460505
Report Generation Date	24/06/27 5:11
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	203.4	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.53	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N

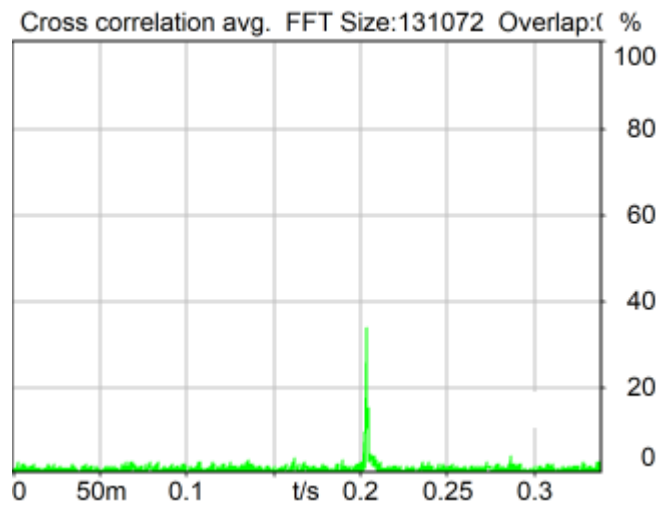
ACQUA Report
60kbps_Ch9400_2N

Title: WCDMA II_Voice_AMR WB 6.

Overall Receive Delay WB	5
5.1b Receive Volume Control Performance 2N WB	6

Overall Receive Delay WB

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

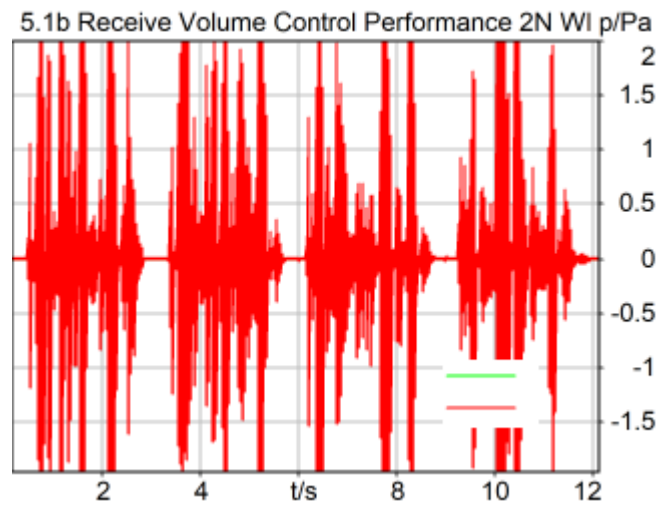


Delay (Cross): 203.4 ms

24/06/27 5:10 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 85.53 dB[SPL], Act.: 80.62% Ok

Ok

24/06/27 5:11 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 71_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch133297_2N
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Project	460505
Report Generation Date	24/07/05 3:20
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	132.9	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.78	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.86	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.48	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.61	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.60	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.67	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.76	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.06	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.60	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.74	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.32	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.21	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.97	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.71	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.66	LTE Band 71_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch133297_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	28.32	LTE Band

ACQUA Report

Title: LTE Band

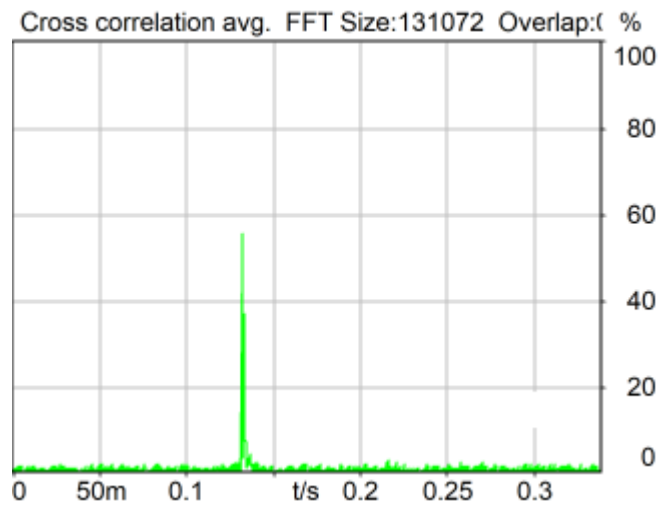
71_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch133297_2N

and Noise (Conversational Gain)		, (occured at 2000Hz)		71_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch133297_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.99	LTE Band 71_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch133297_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	-0.20	LTE Band 71_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch133297_2N

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

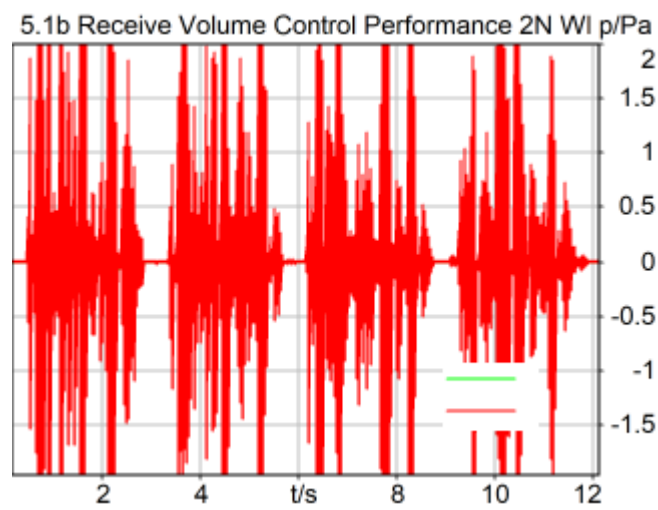


Delay (Cross): 132.9 ms

24/06/24 19:11 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



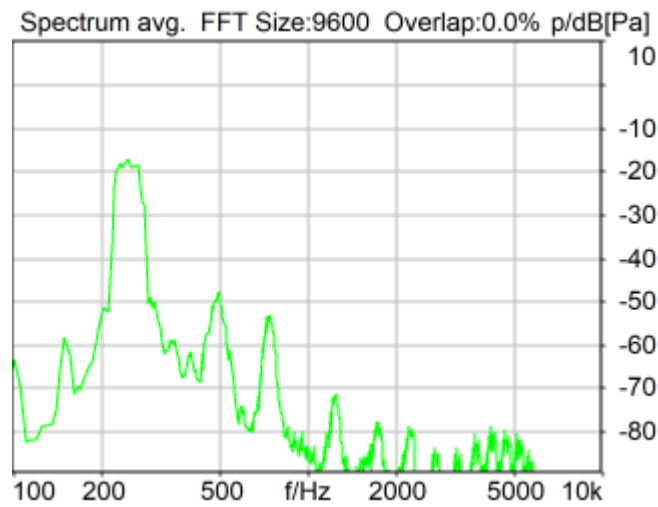
Speech Level RCV: 85.78 dB[SPL], Act.: 83.43% Ok

Ok

24/06/24 19:11 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



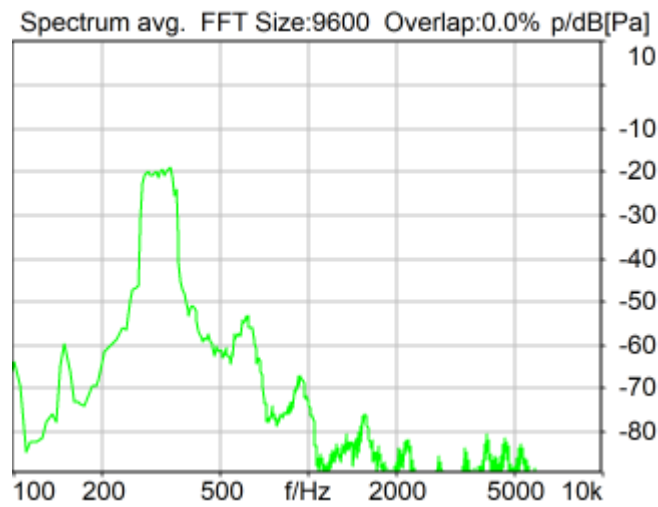
Distortion (Noise) RCV (packed): 31.86 dB (2.55%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB

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



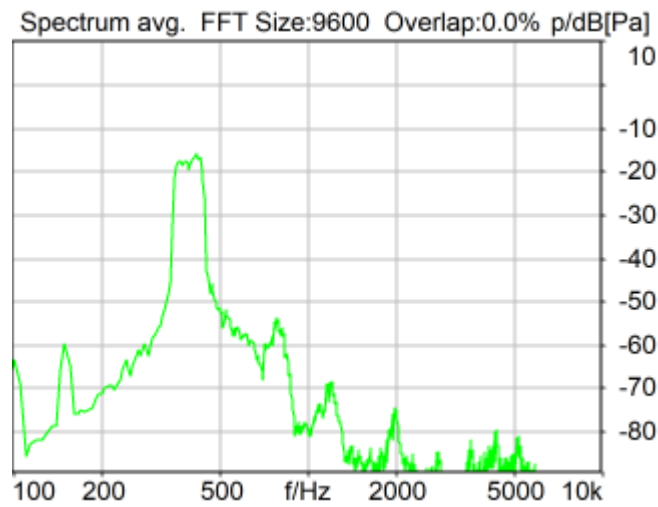
Distortion (Noise) RCV (packed): 33.48 dB (2.12%) Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz WB

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



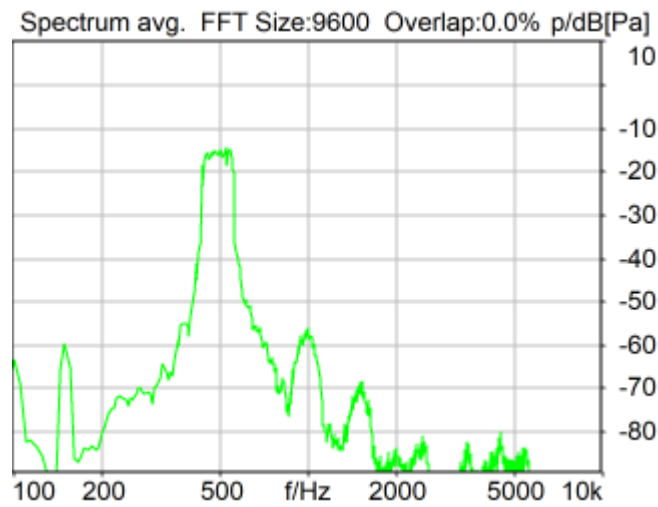
Distortion (Noise) RCV (packed): 34.61 dB (1.86%) Ok

Ok

24/06/24 19:12 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



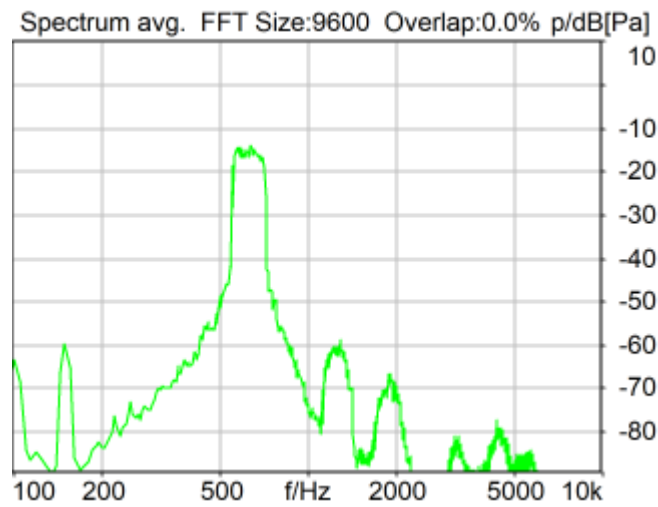
Distortion (Noise) RCV (packed): 36.60 dB (1.48%) Ok

Ok

24/06/24 19:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



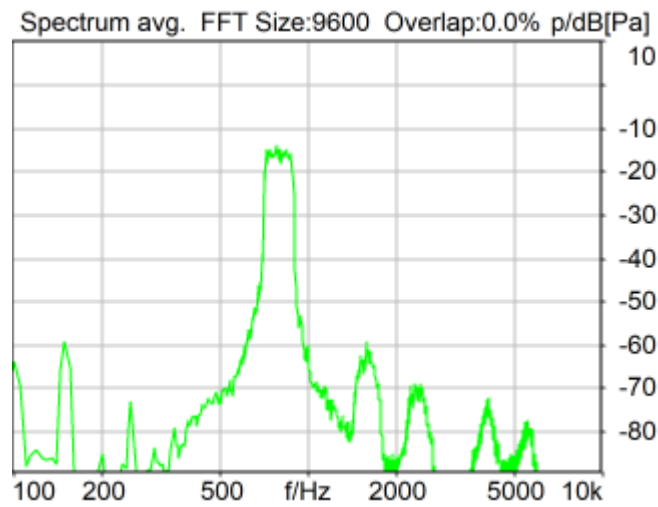
Distortion (Noise) RCV (packed): 36.67 dB (1.47%) Ok

Ok

24/06/24 19:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



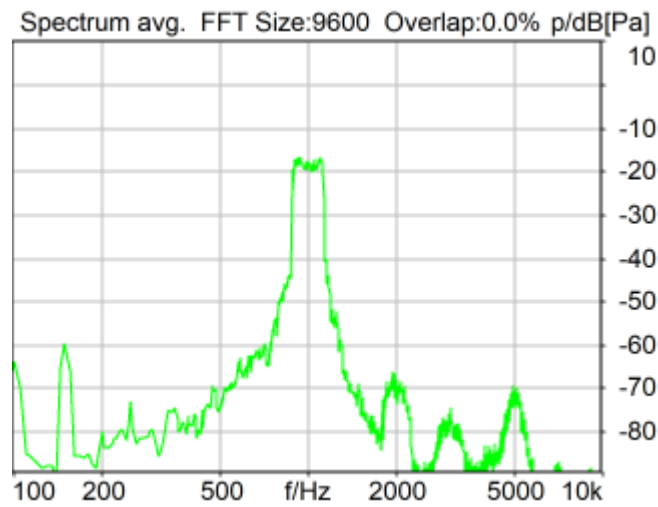
Distortion (Noise) RCV (packed): 39.76 dB (1.03%) Ok

Ok

24/06/24 19:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



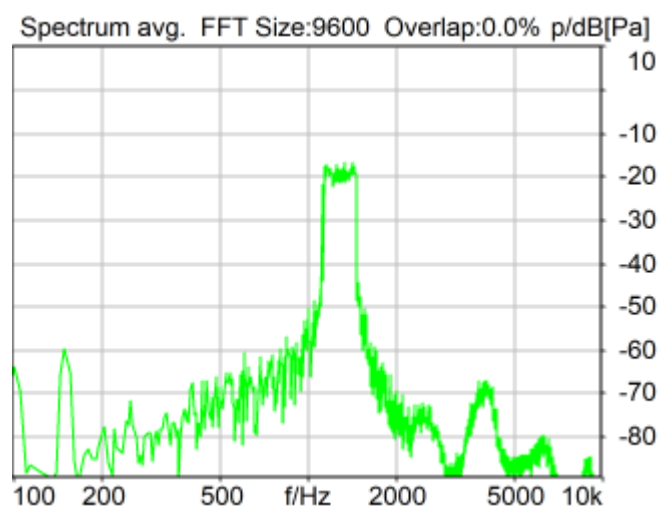
Distortion (Noise) RCV (packed): 32.06 dB (2.49%) Ok

Ok

24/06/24 19:14 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



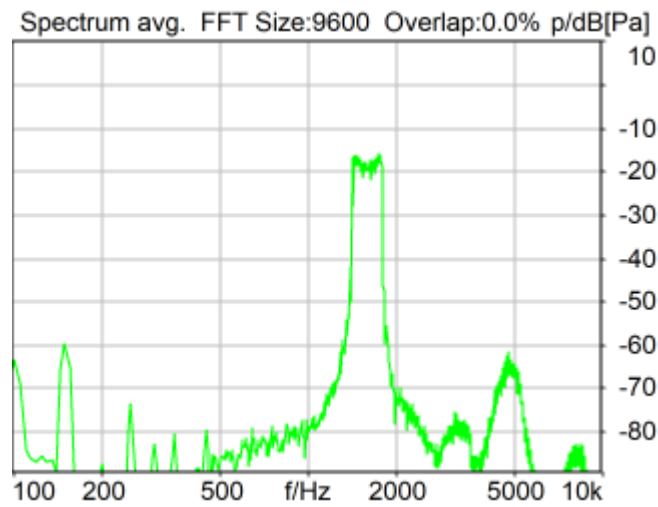
Distortion (Noise) RCV (packed): 30.60 dB (2.95%) Ok

Ok

24/06/24 19:14 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



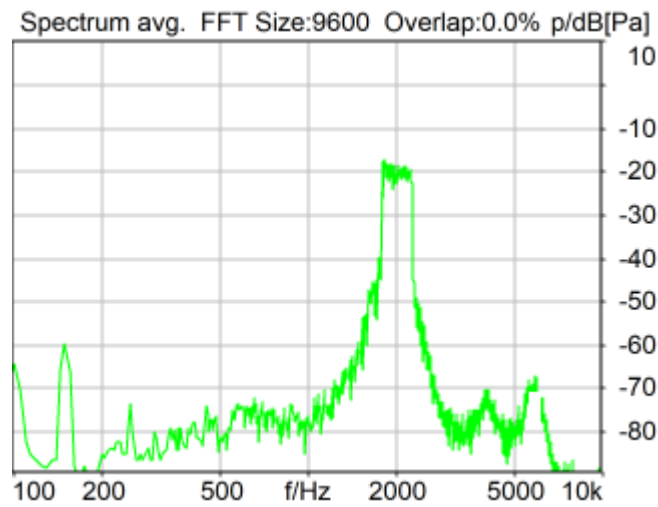
Distortion (Noise) RCV (packed): 39.74 dB (1.03%) Ok

Ok

24/06/24 19:15 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



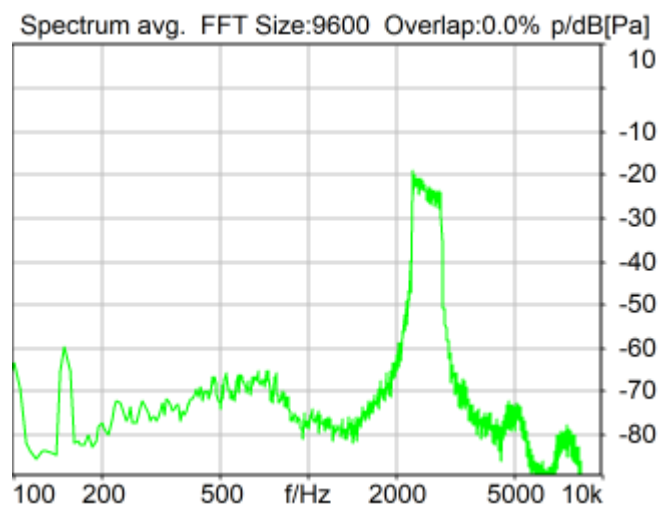
Distortion (Noise) RCV (packed): 28.32 dB (3.84%) Ok

Ok

24/06/24 19:15 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



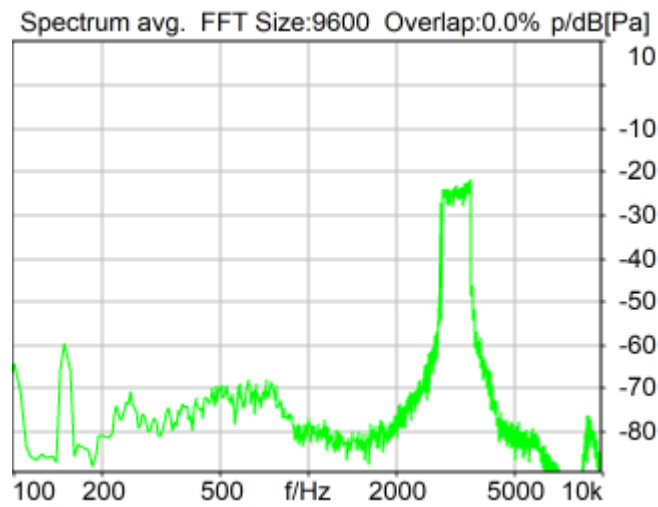
Distortion (Noise) RCV (packed): 31.21 dB (2.75%) Ok

Ok

24/06/24 19:16 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



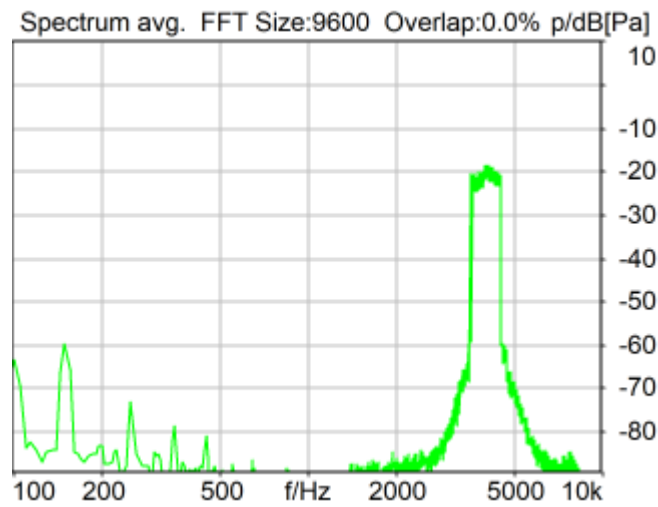
Distortion (Noise) RCV (packed): 31.97 dB (2.52%) Ok

Ok

24/06/24 19:16 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



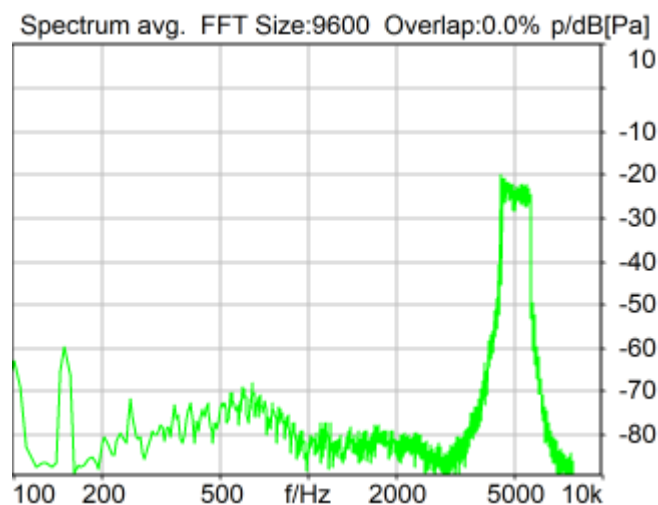
Distortion (Noise) RCV (packed): 43.71 dB (0.65%) Ok

Ok

24/06/24 19:17 ACQUA 5.1.200

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): 31.66 dB (2.61%) Ok

Ok

24/06/24 19:17 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	31.86 dB
2	315Hz	33.48 dB
3	400Hz	34.61 dB
4	500Hz	36.60 dB
5	630Hz	36.67 dB
6	800Hz	39.76 dB
7	1000Hz	32.06 dB
8	1250Hz	30.60 dB
9	1600Hz	39.74 dB
10	2000Hz	28.32 dB
11	2500Hz	31.21 dB
12	3150Hz	31.97 dB
13	4000Hz	43.71 dB
14	5000Hz	31.66 dB

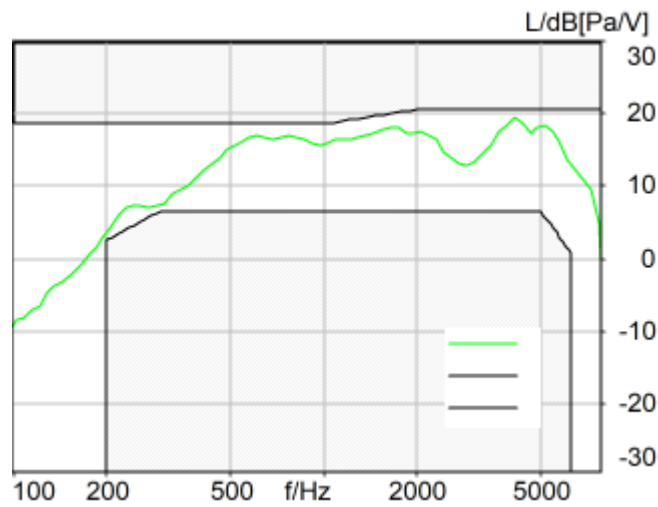
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 28.32dB at 2000Hz.

24/06/24 19:22 ACQUA

5.3 Frequency Response 2N FF

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



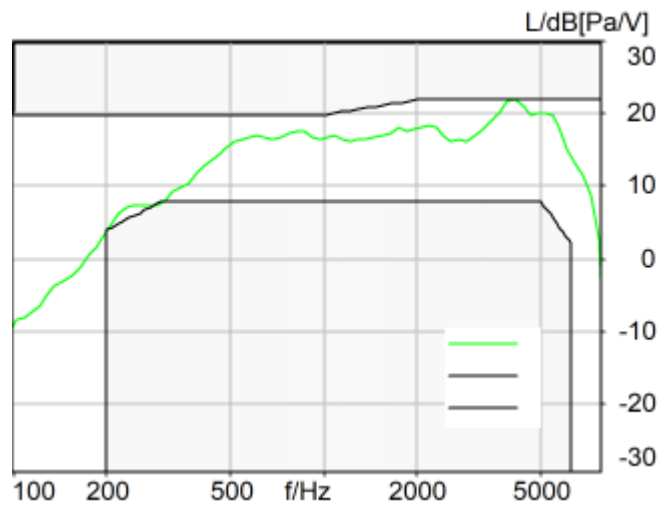
Absolute minimal distance
0.99 dB at 4119.5 Hz Ok

Ok

24/06/24 19:23 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
-0.20 dB at 4119.5 Hz Not Ok

Not Ok

24/06/24 19:23 ACQUA 5.1.200

ACQUA Report
WB 24.4kbps_Ch156400_2N

Title: 07_FR1 n13_10M_QPSK_1RB_1Offset_EVS

Measurement Protocol

Measurement Object	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch156400_2N
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Project	460505
Report Generation Date	24/07/05 3:21
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	291.2	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.52	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.09	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.80	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.62	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.47	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.47	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.62	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.20	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.85	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.68	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.98	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.43	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.05	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.09	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.84	FR1 n13_10M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch156400_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	27.09	FR1

ACQUA Report
WB 24.4kbps_Ch156400_2N

Title: FR1 n13_10M_QPSK_1RB_1Offset_EVS

and Noise (Conversational Gain)		(occured at 4000Hz)		n13_10M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch156400_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	1.58	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch156400_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.08	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch156400_2N

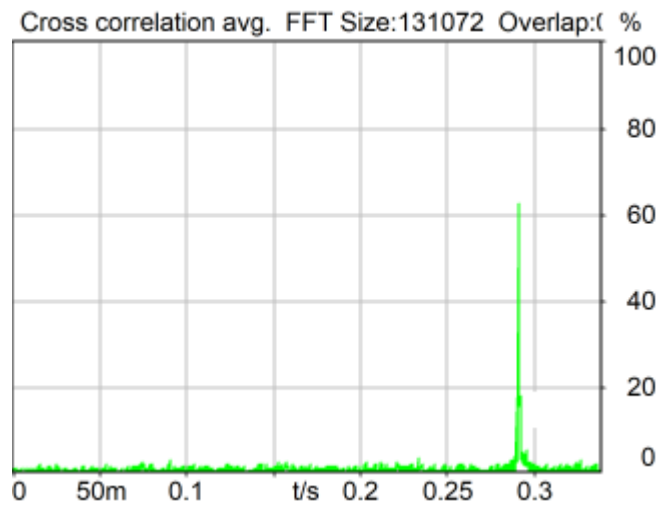
ACQUA Report
WB 24.4kbps_Ch156400_2N

Title: FR1 n13_10M_QPSK_1RB_1Offset_EVS

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

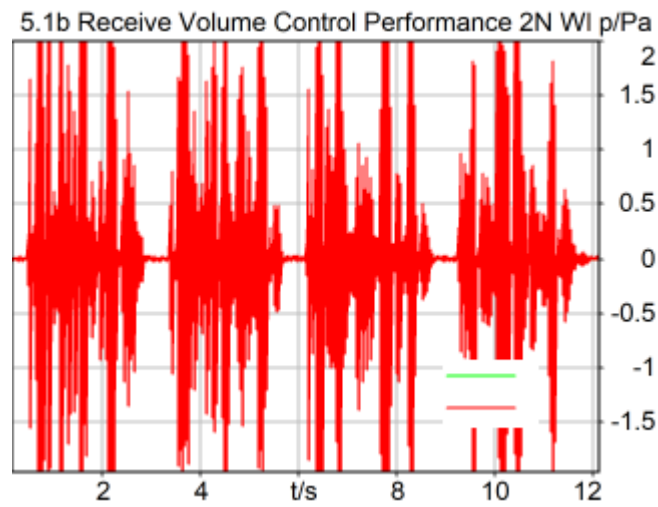


Delay (Cross): 291.2 ms

24/06/29 16:37 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



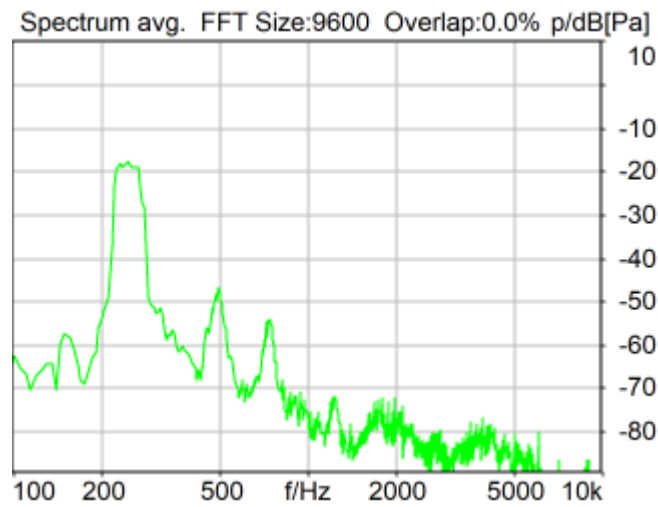
Speech Level RCV: 85.52 dB[SPL], Act.: 84.00% Ok

Ok

24/06/29 16:37 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



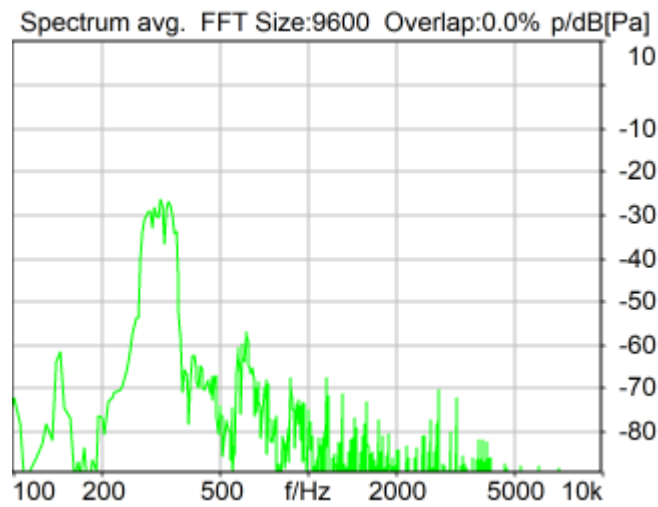
Distortion (Noise) RCV (packed): 31.09 dB (2.79%) Ok

Ok

24/06/29 16:38 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



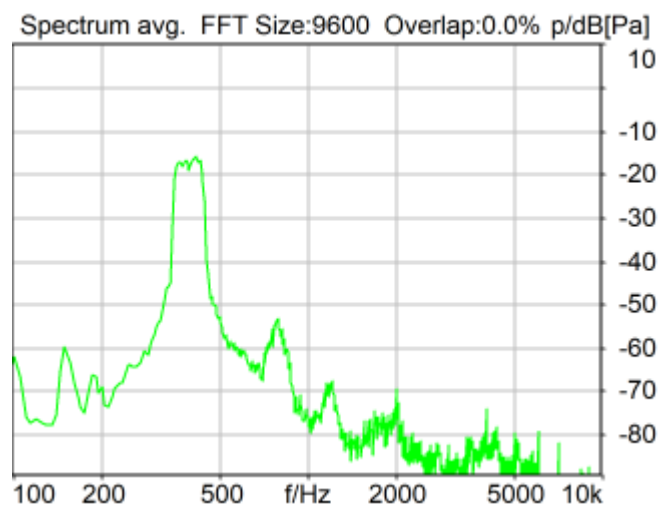
Distortion (Noise) RCV (packed): 31.80 dB (2.57%) Ok

Ok

24/06/29 16:38 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



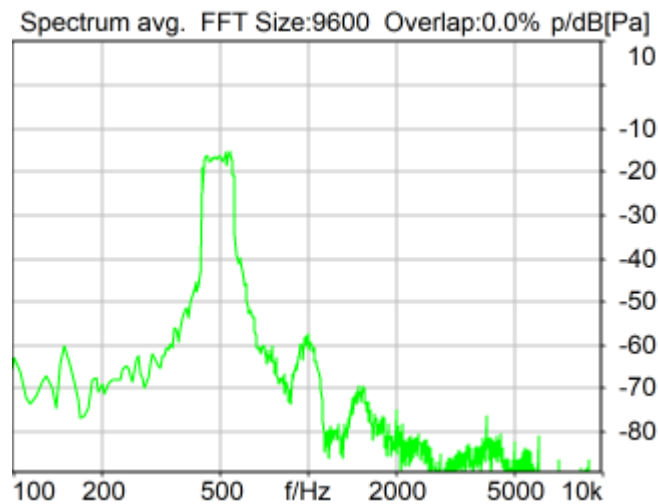
Distortion (Noise) RCV (packed): 35.62 dB (1.66%) Ok

Ok

24/06/29 16:39 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



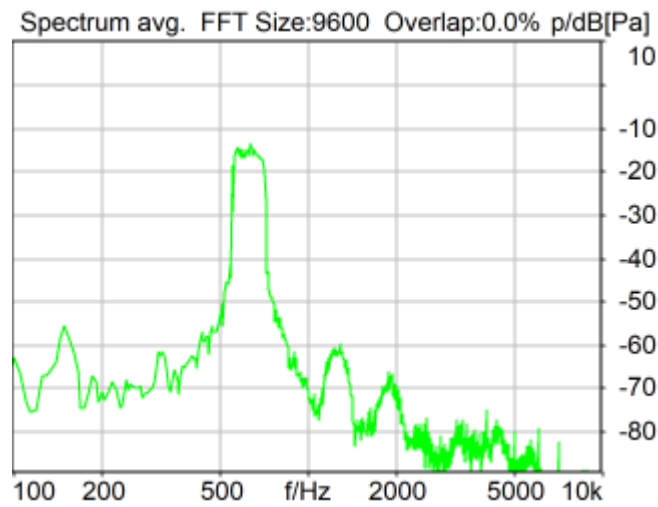
Distortion (Noise) RCV (packed): 34.47 dB (1.89%) Ok

Ok

24/06/29 16:39 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



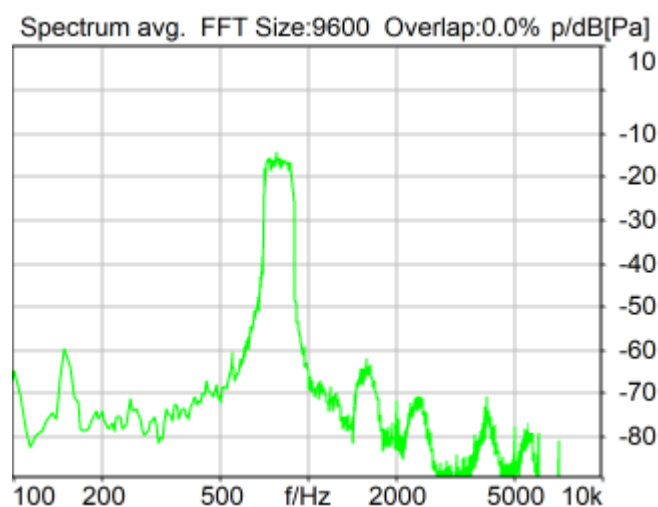
Distortion (Noise) RCV (packed): 37.47 dB (1.34%) Ok

Ok

24/06/29 16:40 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



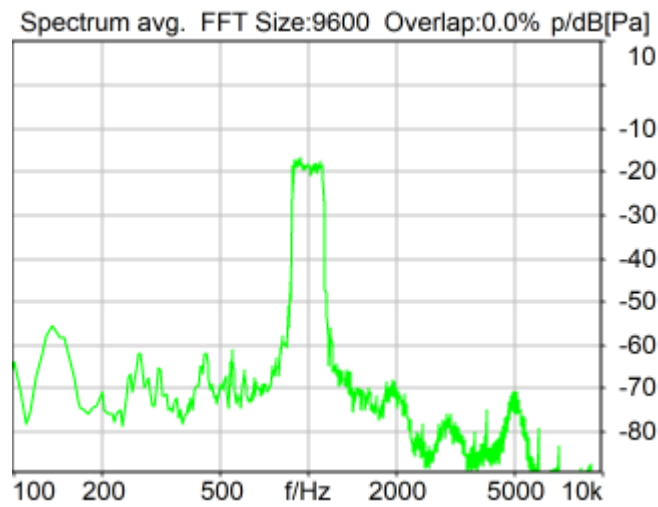
Distortion (Noise) RCV (packed): 39.62 dB (1.05%) Ok

Ok

24/06/29 16:40 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



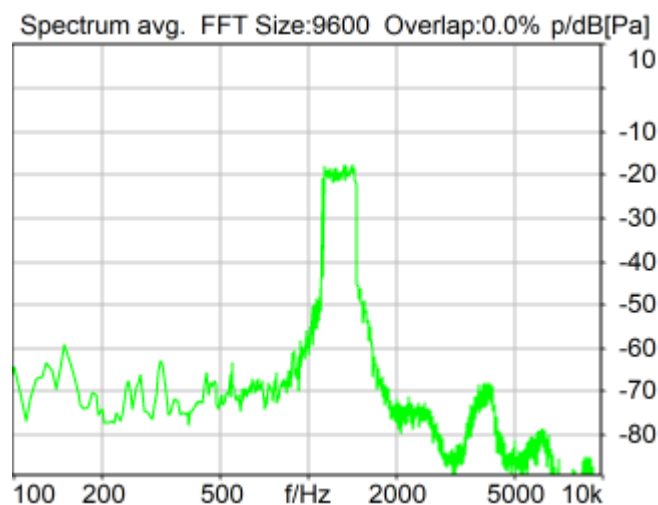
Distortion (Noise) RCV (packed): 40.20 dB (0.98%) Ok

Ok

24/06/29 16:41 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



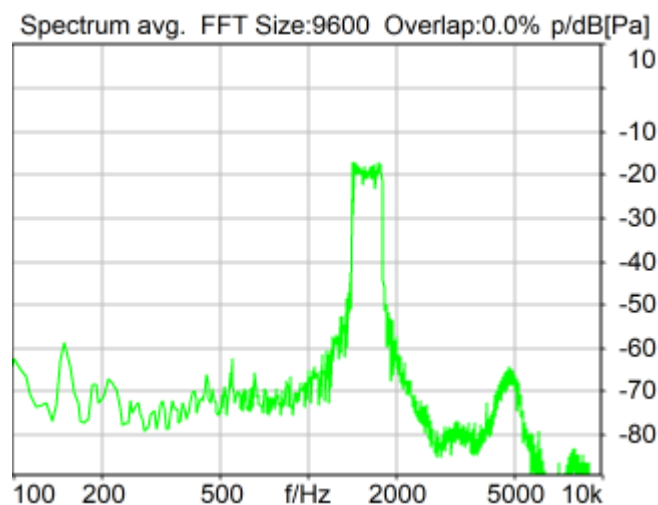
Distortion (Noise) RCV (packed): 28.85 dB (3.61%) Ok

Ok

24/06/29 16:41 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



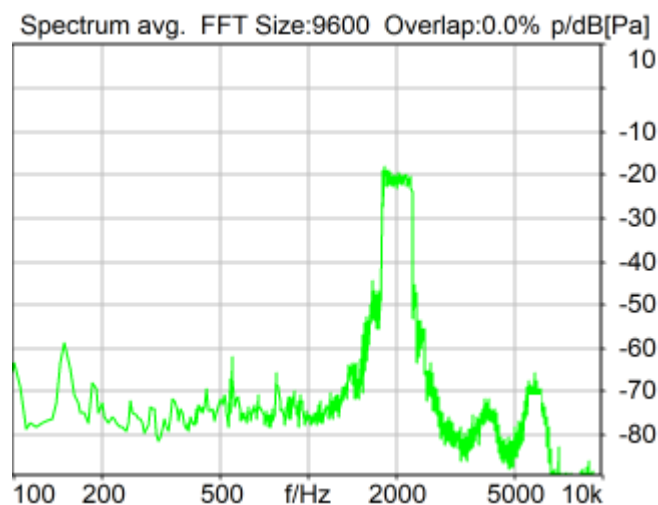
Distortion (Noise) RCV (packed): 34.68 dB (1.85%) Ok

Ok

24/06/29 16:41 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



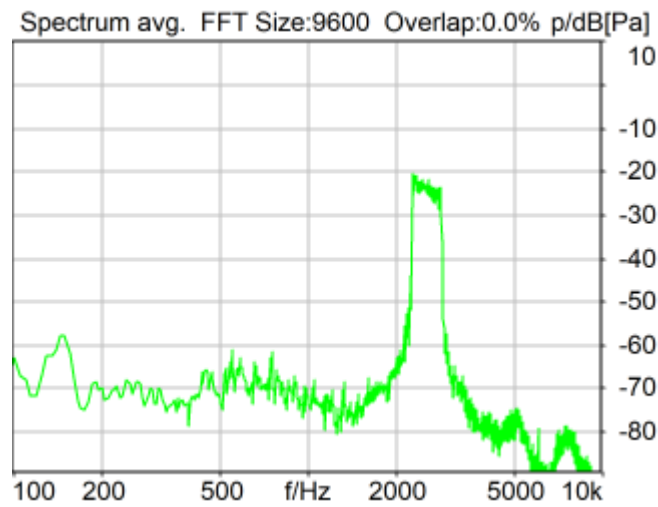
Distortion (Noise) RCV (packed): 29.98 dB (3.17%) Ok

Ok

24/06/29 16:42 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



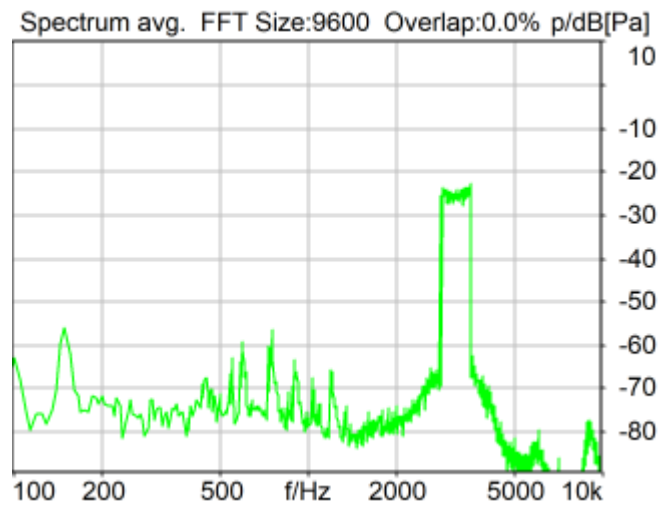
Distortion (Noise) RCV (packed): 34.43 dB (1.90%) Ok

Ok

24/06/29 16:42 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



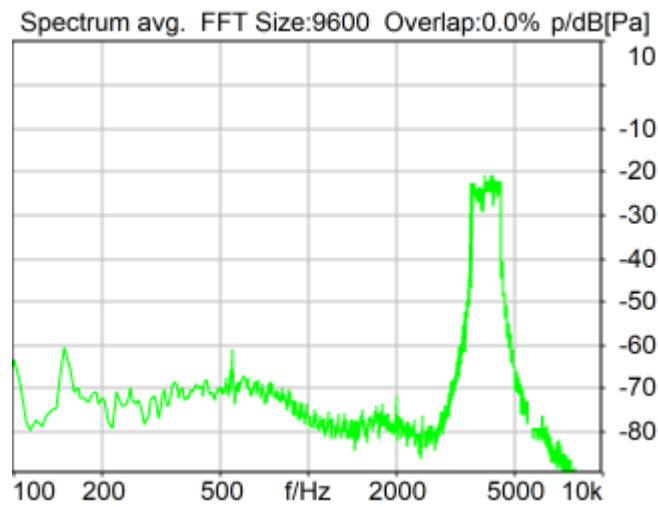
Distortion (Noise) RCV (packed): 39.05 dB (1.12%) Ok

Ok

24/06/29 16:43 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



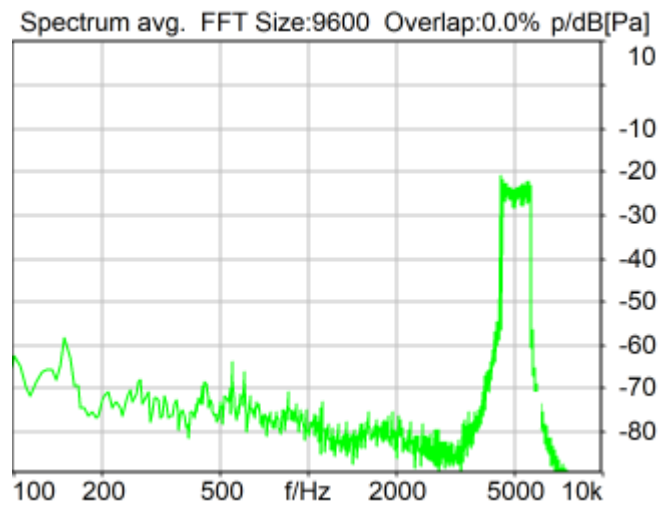
Distortion (Noise) RCV (packed): 27.09 dB (4.42%) Ok

Ok

24/06/29 16:43 ACQUA 5.1.200

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): 37.84 dB (1.28%) Ok

Ok

24/06/29 16:44 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	31.09 dB
2	315Hz	31.80 dB
3	400Hz	35.62 dB
4	500Hz	34.47 dB
5	630Hz	37.47 dB
6	800Hz	39.62 dB
7	1000Hz	40.20 dB
8	1250Hz	28.85 dB
9	1600Hz	34.68 dB
10	2000Hz	29.98 dB
11	2500Hz	34.43 dB
12	3150Hz	39.05 dB
13	4000Hz	27.09 dB
14	5000Hz	37.84 dB

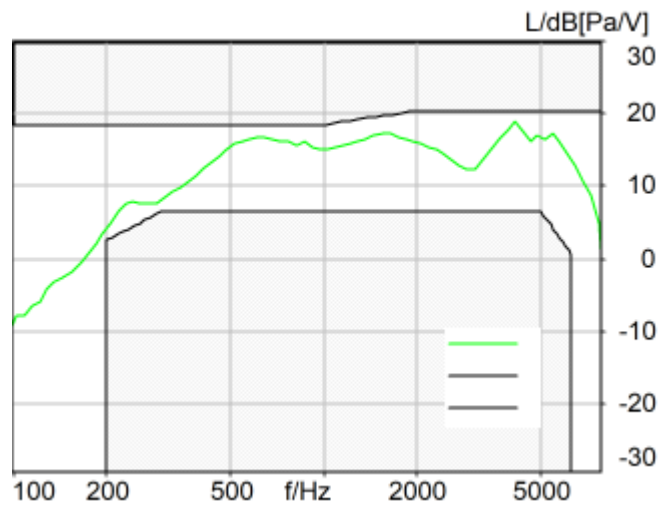
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 27.09dB at 4000Hz.

24/06/29 16:44 ACQUA

5.3 Frequency Response 2N FF

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



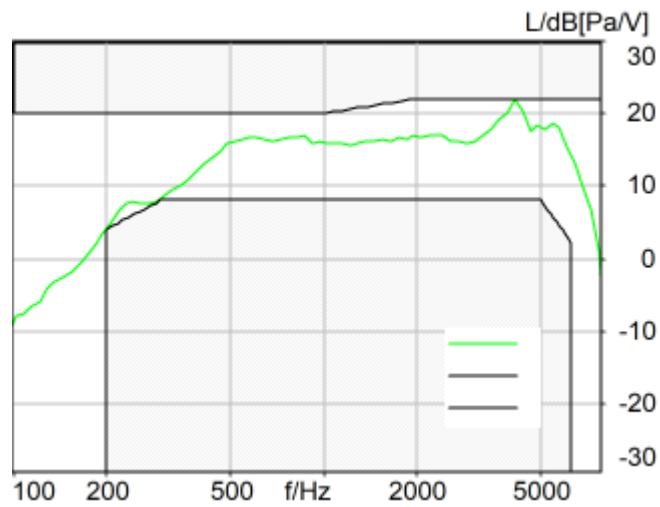
Absolute minimal distance
1.58 dB at 4119.5 Hz Ok

Ok

24/06/29 16:44 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.08 dB at 4119.5 Hz Ok

Ok

24/06/29 16:44 ACQUA 5.1.200

ACQUA Report
WB 24.4kbps_Ch518598_8N

Title: 08_FR1 n41_100M_QPSK_1RB_1Offset_EVS

Measurement Protocol

Measurement Object	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch518598_8N
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Project	460505
Report Generation Date	24/07/05 3:22
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	275.0	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.66	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.89	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.02	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.37	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.45	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.71	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.42	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.99	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.74	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.31	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.94	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.54	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N

ACQUA Report
WB 24.4kbps_Ch518598_8N

Title: FR1 n41_100M_QPSK_1RB_1Offset_EVS

				EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.01	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.05	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.92	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	22.74	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.57	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.31	FR1 n41_100M_QPSK_1RB_1Offset_EVS WB 24. 4kbps_Ch518598_8N

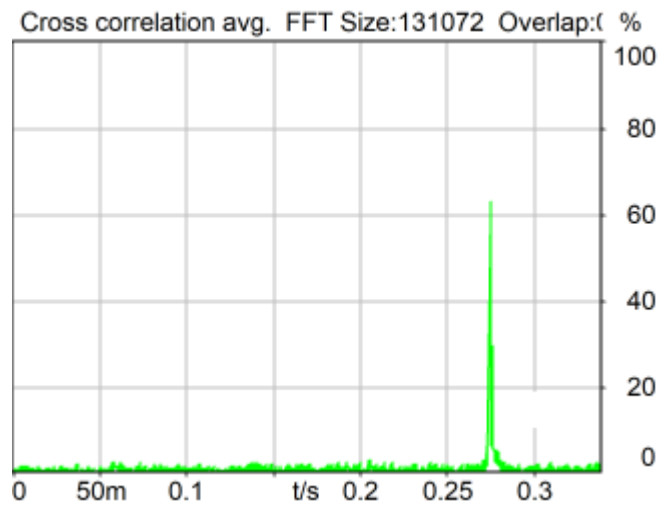
ACQUA Report
WB 24.4kbps_Ch518598_8N

Title: FR1 n41_100M_QPSK_1RB_1Offset_EVS

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

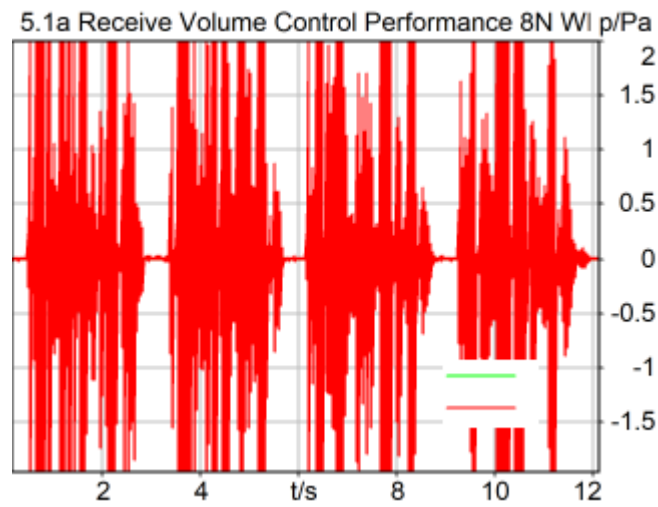


Delay (Cross): 275.0 ms

24/07/02 15:06 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



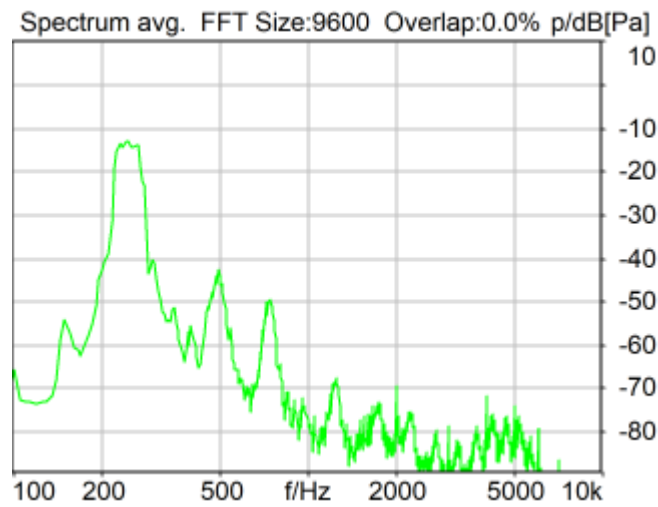
Speech Level RCV: 89.66 dB[SPL], Act.: 83.88% Ok

Ok

24/07/02 15:06 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



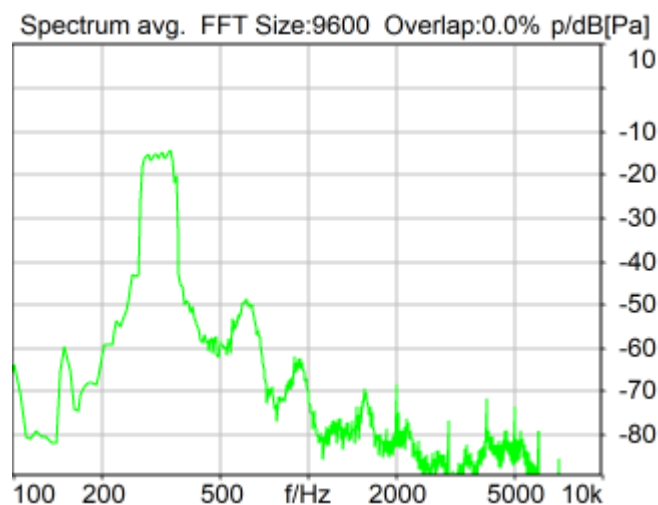
Distortion (Noise) RCV (packed): 31.89 dB (2.54%) Ok

Ok

24/07/02 15:06 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



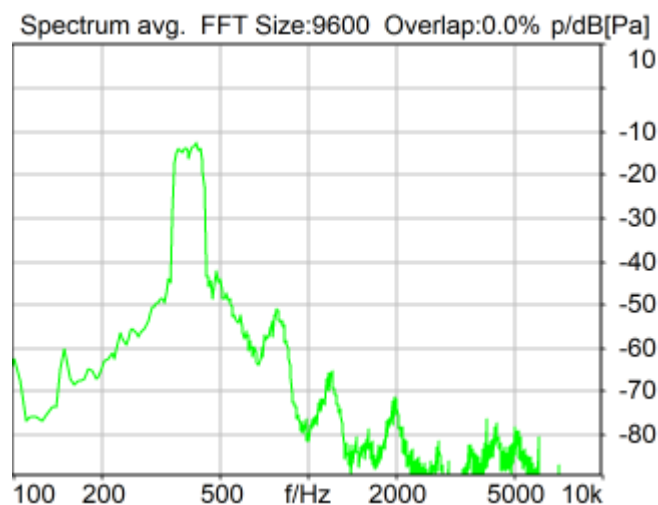
Distortion (Noise) RCV (packed): 34.02 dB (1.99%) Ok

Ok

24/07/02 15:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



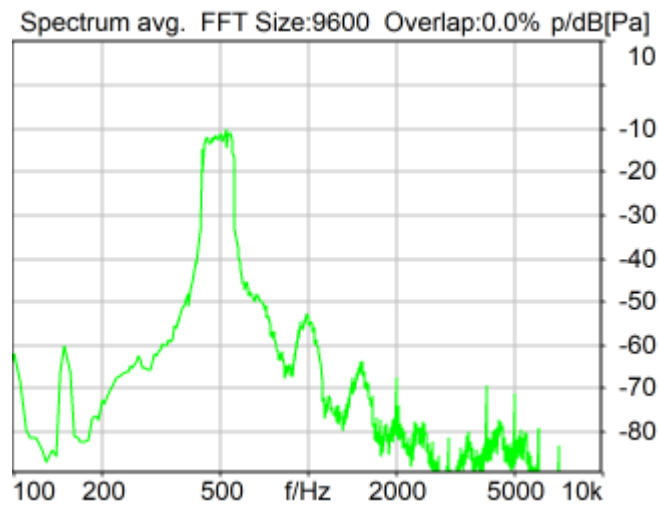
Distortion (Noise) RCV (packed): 33.37 dB (2.14%) Ok

Ok

24/07/02 15:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



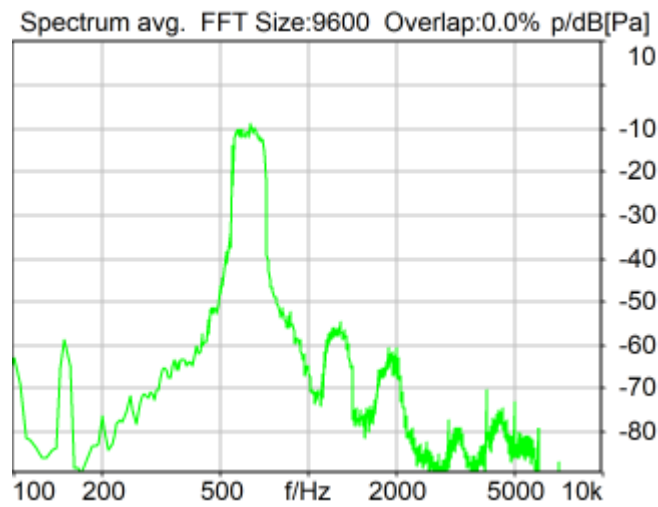
Distortion (Noise) RCV (packed): 35.45 dB (1.69%) Ok

Ok

24/07/02 15:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



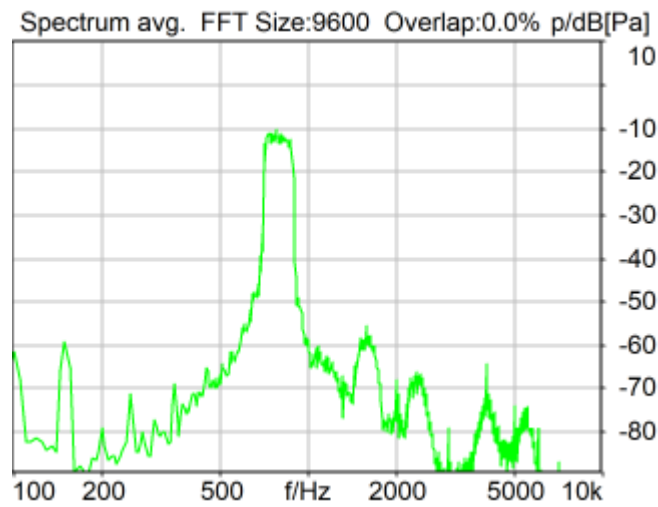
Distortion (Noise) RCV (packed): 37.71 dB (1.30%) Ok

Ok

24/07/02 15:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



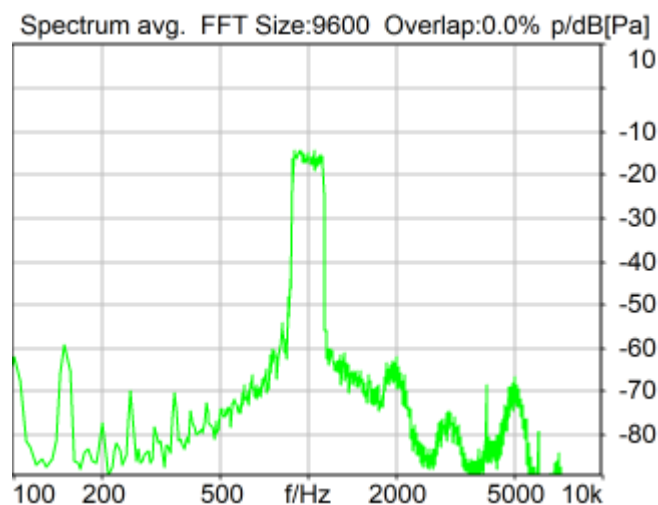
Distortion (Noise) RCV (packed): 39.42 dB (1.07%) Ok

Ok

24/07/02 15:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



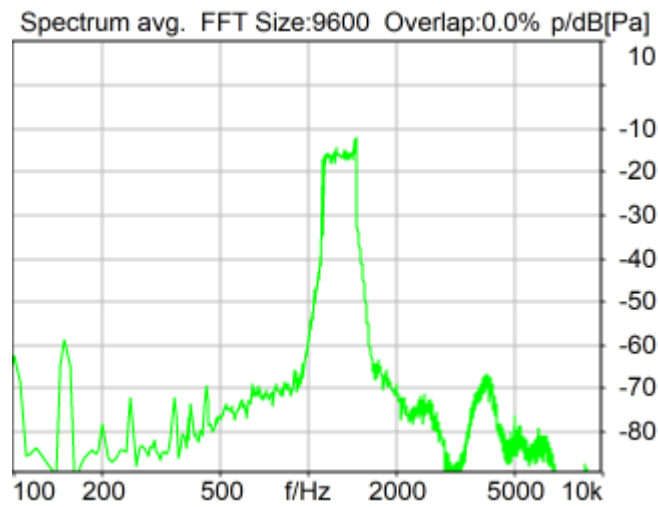
Distortion (Noise) RCV (packed): 40.99 dB (0.89%) Ok

Ok

24/07/02 15:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



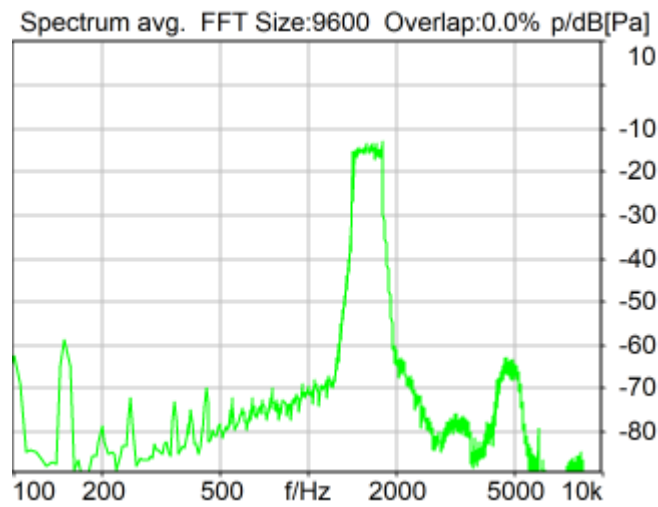
Distortion (Noise) RCV (packed): 22.74 dB (7.30%) Ok

Ok

24/07/02 15:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



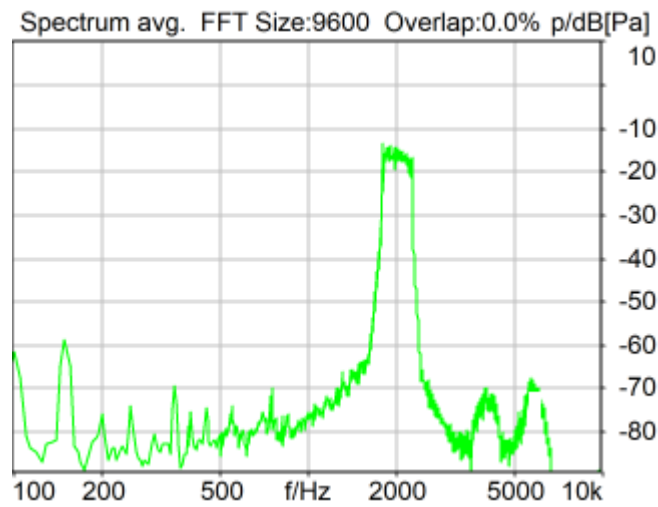
Distortion (Noise) RCV (packed): 30.31 dB (3.05%) Ok

Ok

24/07/02 15:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



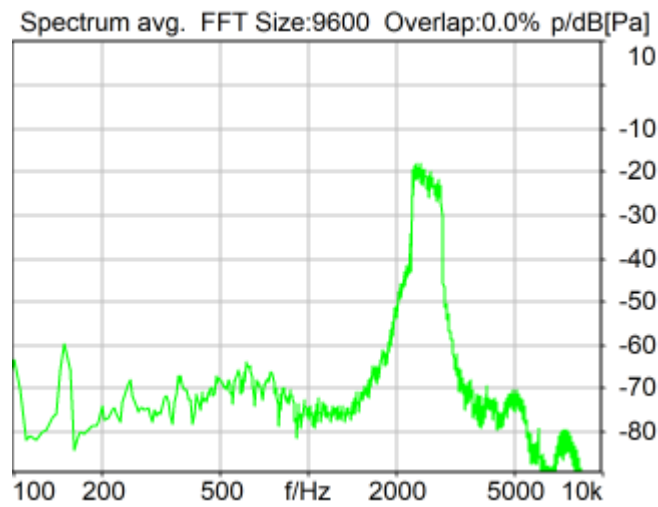
Distortion (Noise) RCV (packed): 31.94 dB (2.53%) Ok

Ok

24/07/02 15:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



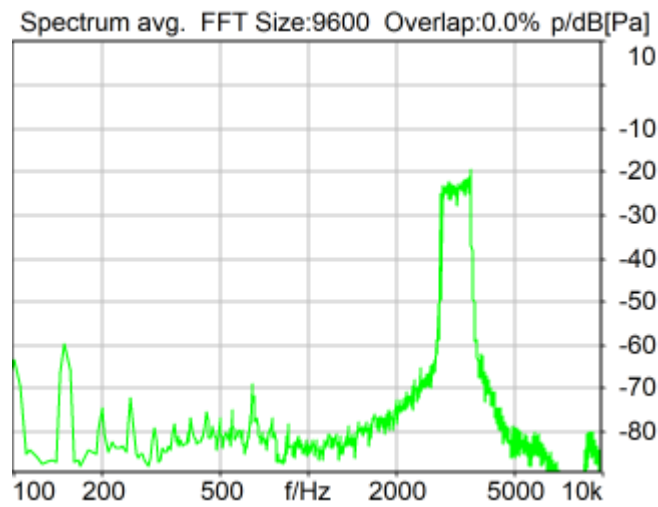
Distortion (Noise) RCV (packed): 25.54 dB (5.28%) Ok

Ok

24/07/02 15:17 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



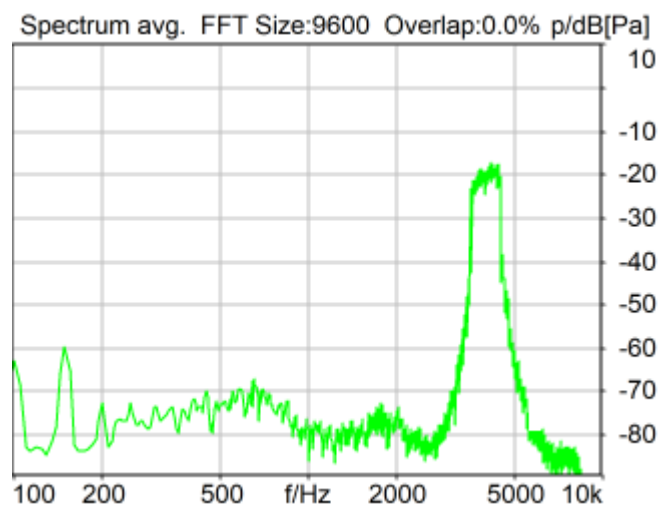
Distortion (Noise) RCV (packed): 31.01 dB (2.81%) Ok

Ok

24/07/02 15:17 ACQUA 5.1.200

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): 28.05 dB (3.96%) Ok

Ok

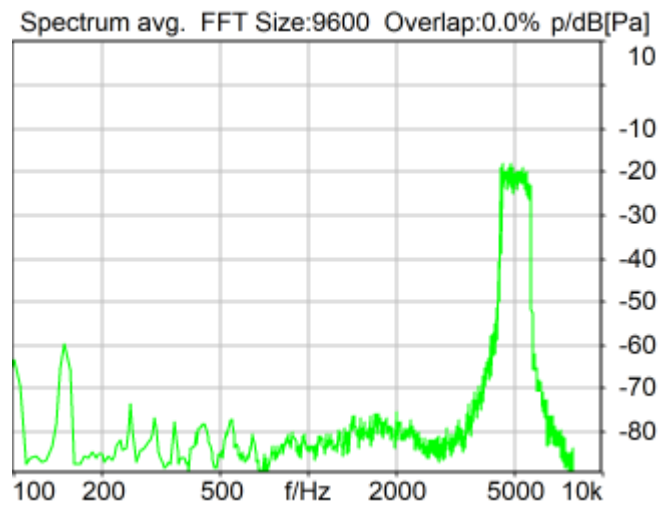
24/07/02 15:18 ACQUA 5.1.200

ACQUA Report
WB 24.4kbps_Ch518598_8N

Title: FR1 n41_100M_QPSK_1RB_1Offset_EVS

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): 34.92 dB (1.79%) Ok

Ok

24/07/02 15:18 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	31.89 dB
2	315Hz	34.02 dB
3	400Hz	33.37 dB
4	500Hz	35.45 dB
5	630Hz	37.71 dB
6	800Hz	39.42 dB
7	1000Hz	40.99 dB
8	1250Hz	22.74 dB
9	1600Hz	30.31 dB
10	2000Hz	31.94 dB
11	2500Hz	25.54 dB
12	3150Hz	31.01 dB
13	4000Hz	28.05 dB
14	5000Hz	34.92 dB

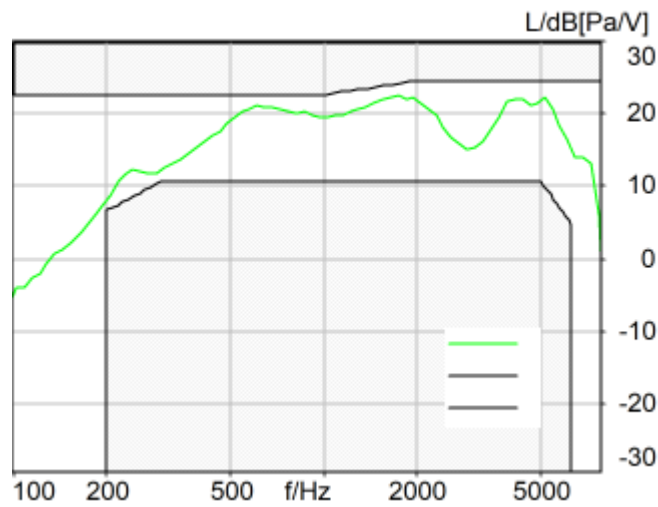
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.74dB at 1250Hz.

24/07/02 15:18 ACQUA

5.3 Frequency Response 8N FF

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



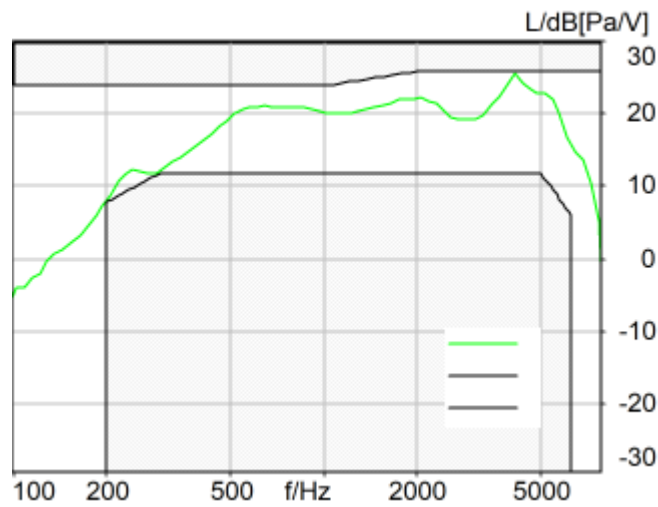
Absolute minimal distance
1.57 dB at 611.7 Hz Ok

Ok

24/07/02 15:19 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
0.31 dB at 4119.5 Hz Ok

Ok

24/07/02 15:19 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 24.4kbps_Ch60_2N
--------------------	--

Project	460505
Report Generation Date	24/08/19 15:36
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	201.0	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.88	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.21	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.08	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.37	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.18	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.19	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.32	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.93	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.40	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.40	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.08	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.08	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.41	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.68	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.50	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	22.40	WLAN5GHz_802.11a

ACQUA Report
4kbps_Ch60_2N

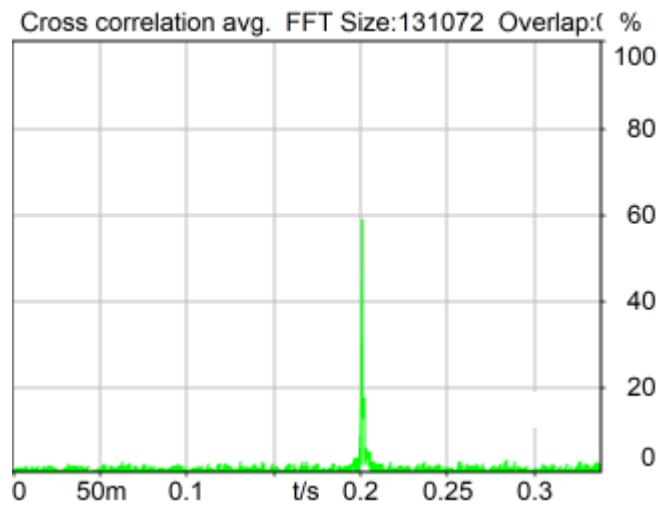
Title: WLAN5GHz_802.11a 6Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 689.1 Hz	0.79	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.39	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_2N

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

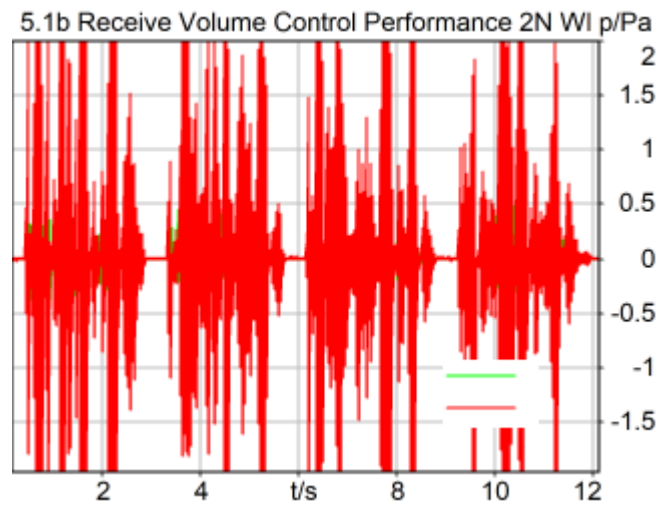


Delay (Cross): 201.0 ms

24/08/19 15:28 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



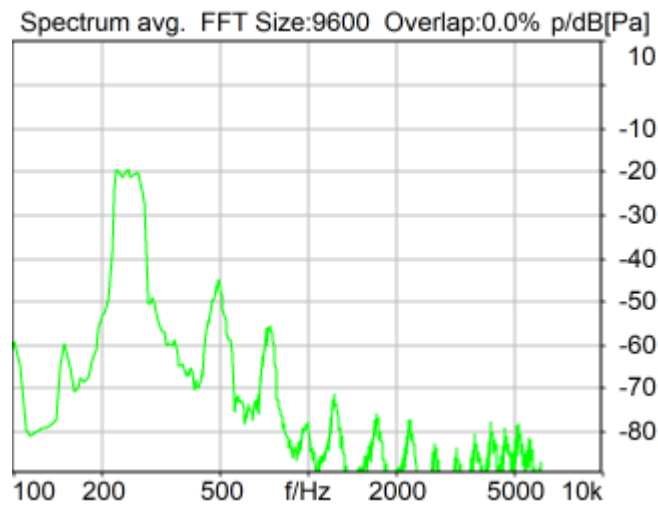
Speech Level RCV: 85.88 dB[SPL], Act.: 85.59% Ok

Ok

24/08/19 15:28 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



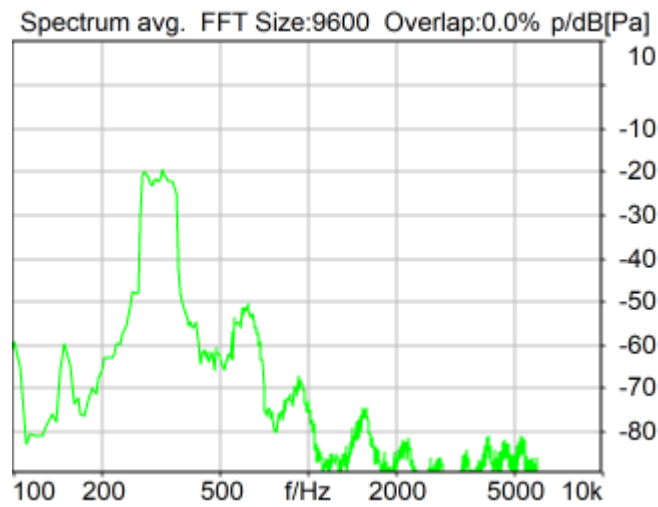
Distortion (Noise) RCV (packed): 29.21 dB (3.46%) Ok

Ok

24/08/19 15:28 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 315 Hz WB

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



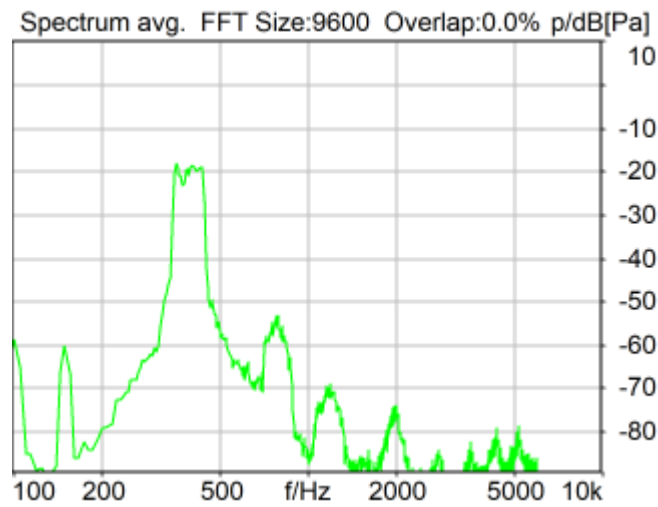
Distortion (Noise) RCV (packed): 31.08 dB (2.79%) Ok

Ok

24/08/19 15:29 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



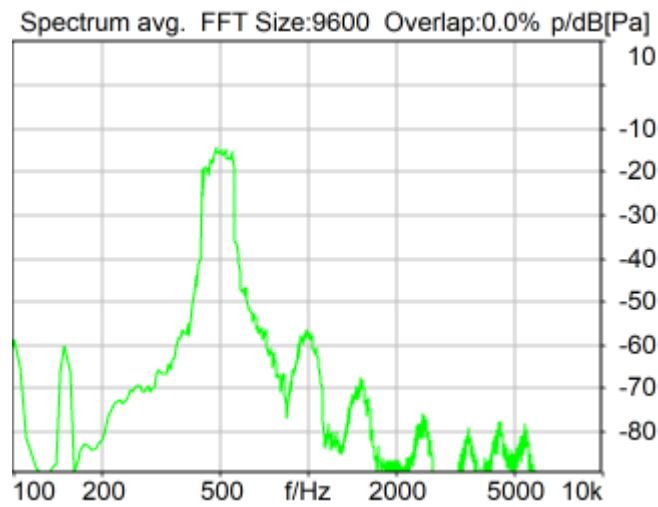
Distortion (Noise) RCV (packed): 34.37 dB (1.91%) Ok

Ok

24/08/19 15:29 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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



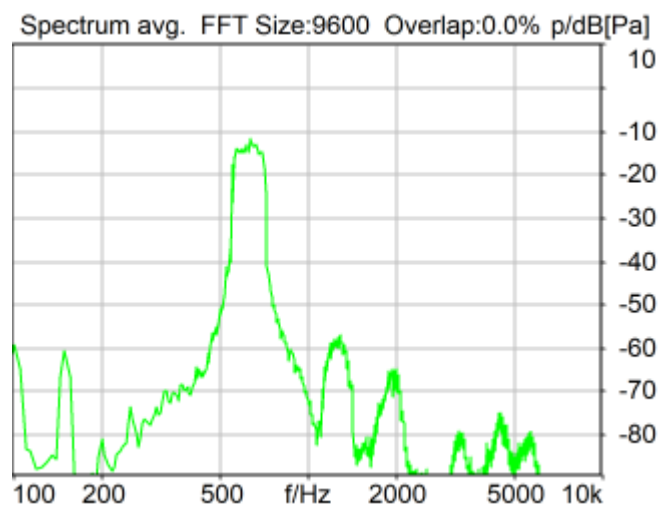
Distortion (Noise) RCV (packed): 35.18 dB (1.74%) Ok

Ok

24/08/19 15:30 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



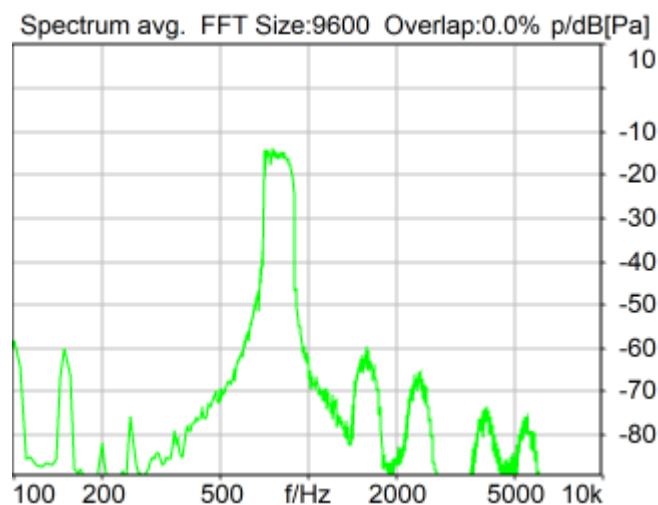
Distortion (Noise) RCV (packed): 38.19 dB (1.23%) Ok

Ok

24/08/19 15:30 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



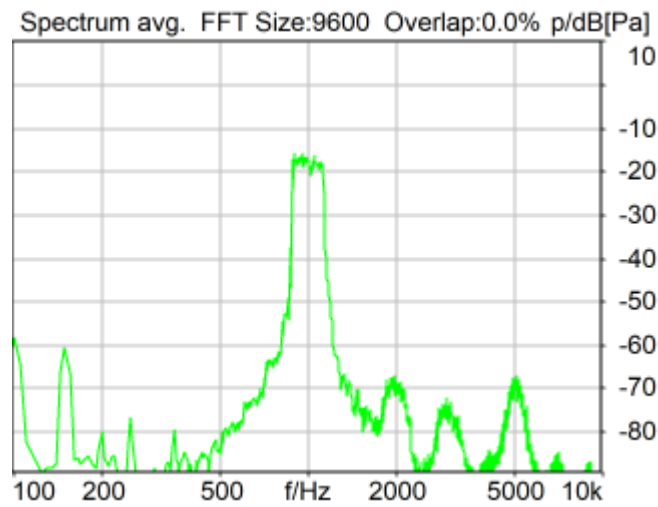
Distortion (Noise) RCV (packed): 39.32 dB (1.08%) Ok

Ok

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5.2 RCV Distortion and Noise - 1000 Hz WB

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



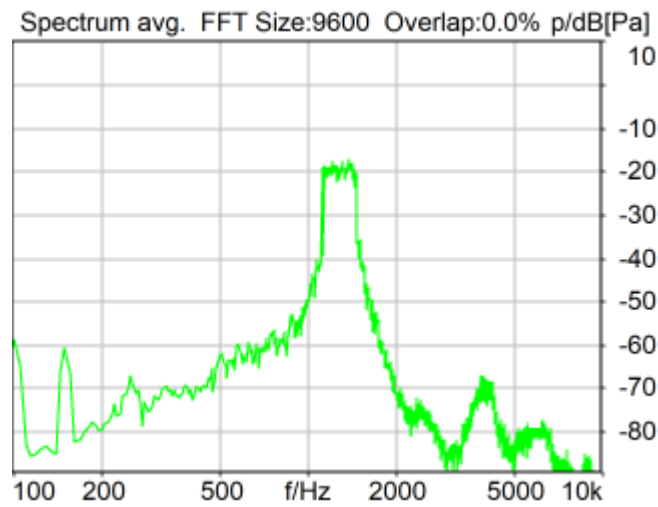
Distortion (Noise) RCV (packed): 35.93 dB (1.60%) Ok

Ok

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5.2 RCV Distortion and Noise - 1250 Hz WB

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



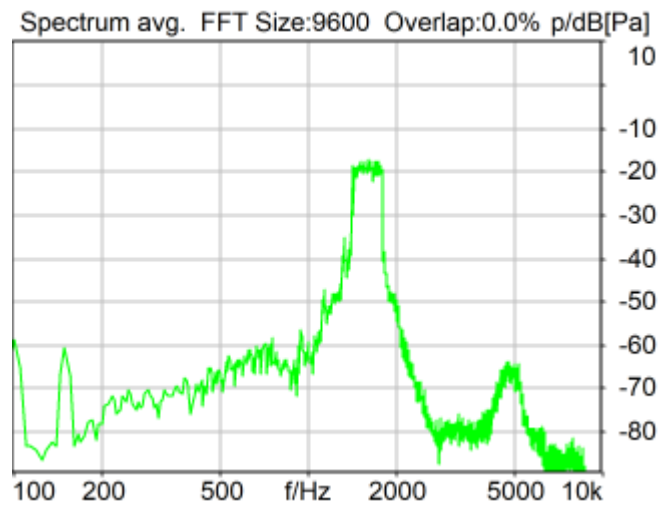
Distortion (Noise) RCV (packed): 22.40 dB (7.58%) Ok

Ok

24/08/19 15:32 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



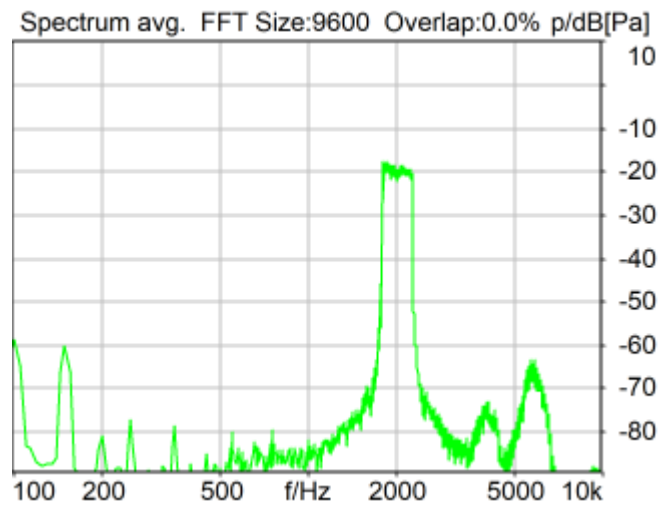
Distortion (Noise) RCV (packed): 24.40 dB (6.02%) Ok

Ok

24/08/19 15:32 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



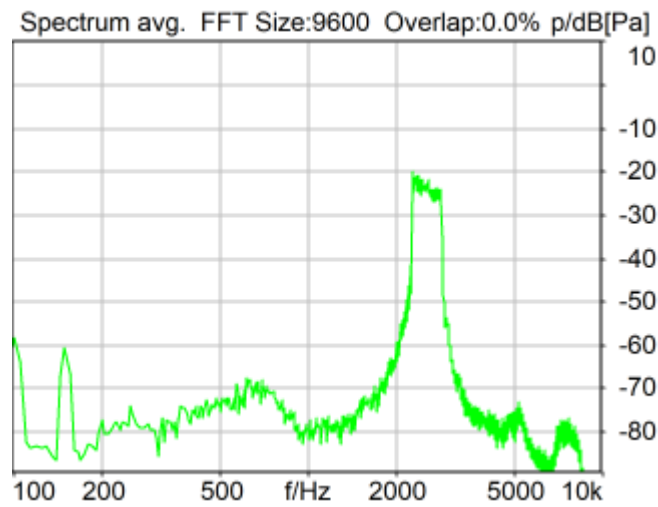
Distortion (Noise) RCV (packed): 41.08 dB (0.88%) Ok

Ok

24/08/19 15:32 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



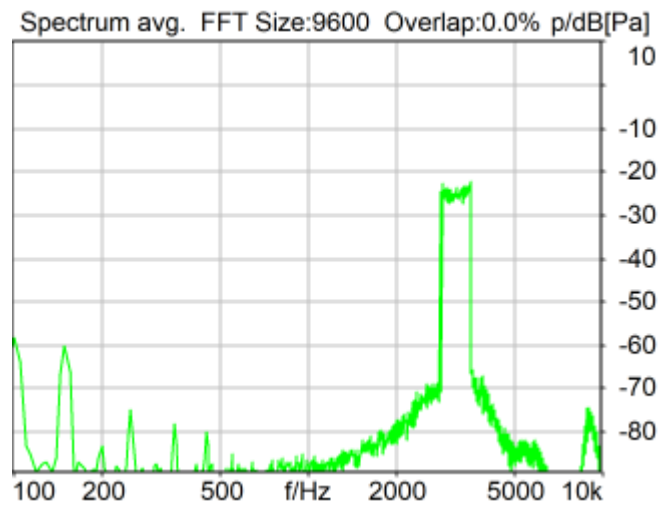
Distortion (Noise) RCV (packed): 30.08 dB (3.13%) Ok

Ok

24/08/19 15:33 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



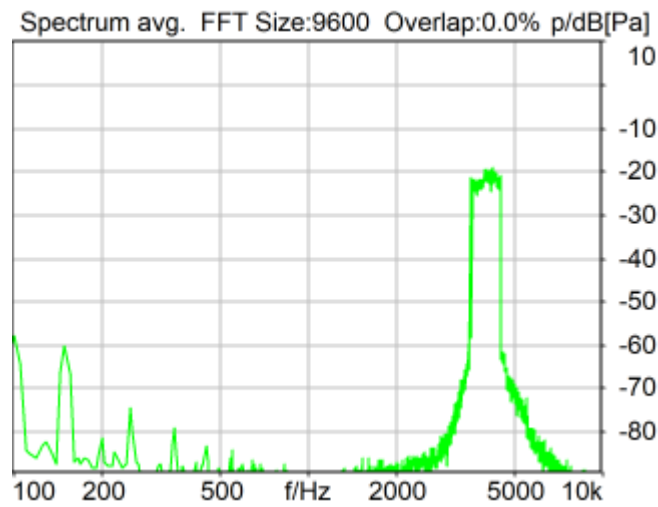
Distortion (Noise) RCV (packed): 42.41 dB (0.76%) Ok

Ok

24/08/19 15:33 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



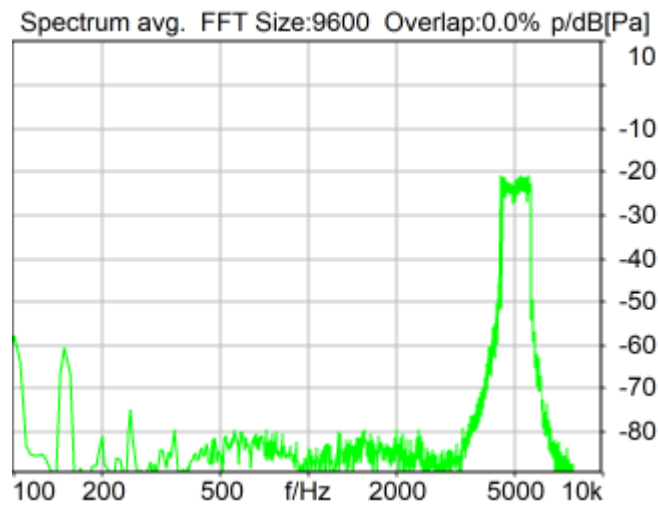
Distortion (Noise) RCV (packed): 43.68 dB (0.65%) Ok

Ok

24/08/19 15:34 ACQUA 5.1.200

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): 33.50 dB (2.11%) Ok

Ok

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Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	29.21 dB
2	315Hz	31.08 dB
3	400Hz	34.37 dB
4	500Hz	35.18 dB
5	630Hz	38.19 dB
6	800Hz	39.32 dB
7	1000Hz	35.93 dB
8	1250Hz	22.40 dB
9	1600Hz	24.40 dB
10	2000Hz	41.08 dB
11	2500Hz	30.08 dB
12	3150Hz	42.41 dB
13	4000Hz	43.68 dB
14	5000Hz	33.50 dB

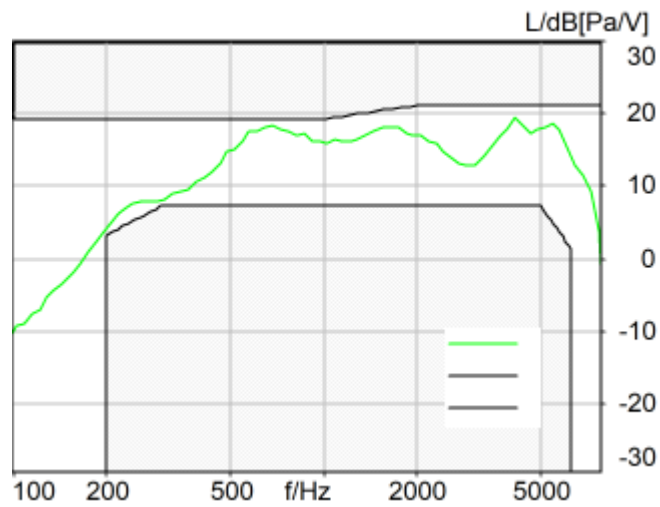
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.40dB at 1250Hz.

24/08/19 15:34 ACQUA

5.3 Frequency Response 2N FF

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



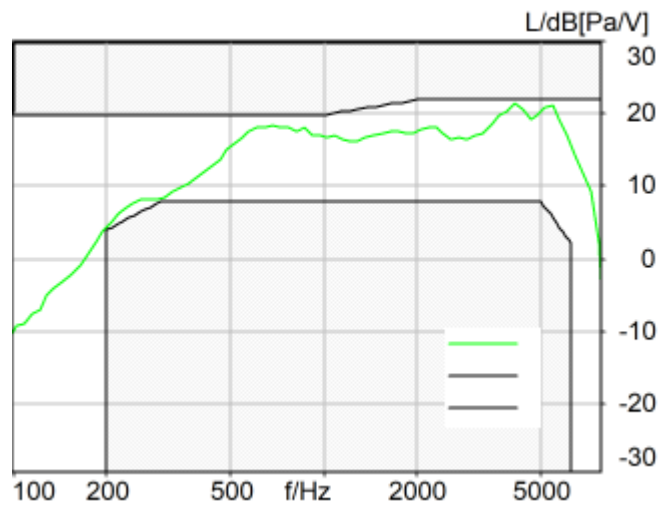
Absolute minimal distance
0.79 dB at 689.1 Hz Ok

Ok

24/08/19 15:35 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.39 dB at 4119.5 Hz Ok

Ok

24/08/19 15:35 ACQUA 5.1.200