
Measurement Protocol

Measurement Object	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
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Project	#R2620373
Report Generation Date	26/06/25 12:29
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	108.3	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.95	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	27.35	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	29.78	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	32.83	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	35.74	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	35.80	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	33.99	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	28.43	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	21.65	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	24.16	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	43.43	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	31.87	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	32.42	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	46.23	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB] , 0.0 dB	35.11	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	21.65	LTE Band

ACQUA Report
4kbps_Ch23095_2N

Title: LTE Band 12_10M_QPSK_1_0_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 776.5 Hz	1.48	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.11	LTE Band 12_10M_QPSK_1_0_EVS WB 24.4kbps_Ch23095_2N

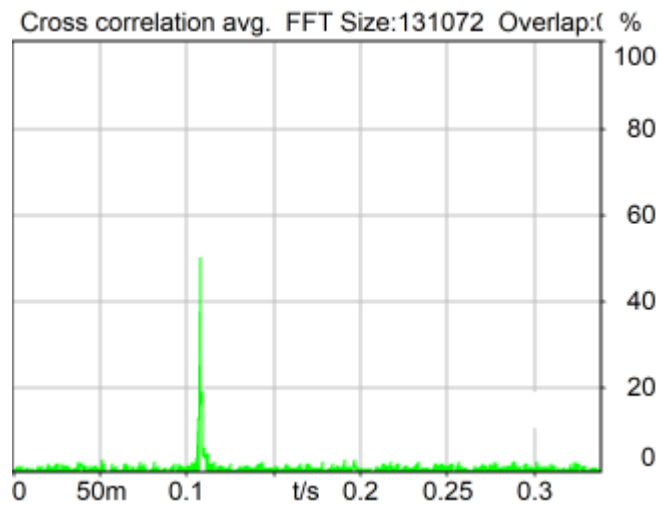
ACQUA Report
4kbps_Ch23095_2N

Title: LTE Band 12_10M_QPSK_1_0_EVS WB 24.

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

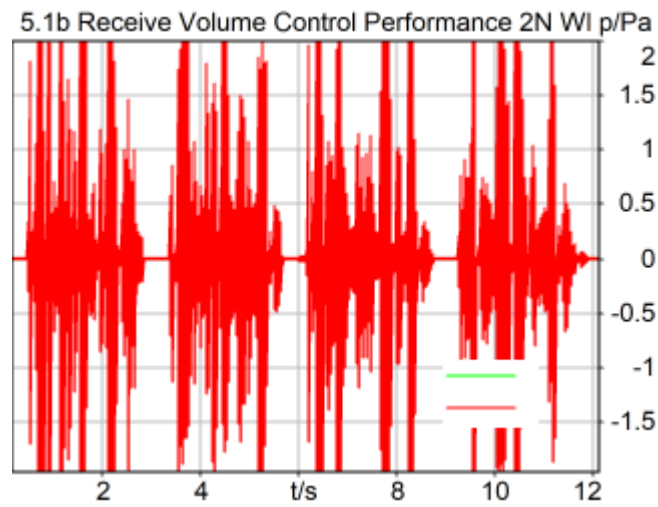


Delay (Cross): 108.3 ms

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5.1b Receive Volume Control Performance 2N WB

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



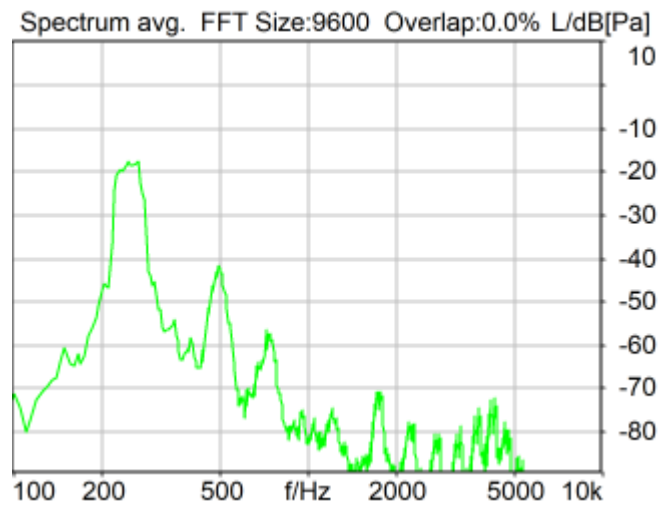
Speech Level RCV: 85.95 dB[SPL], Act.: 82.52% Ok

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 2N



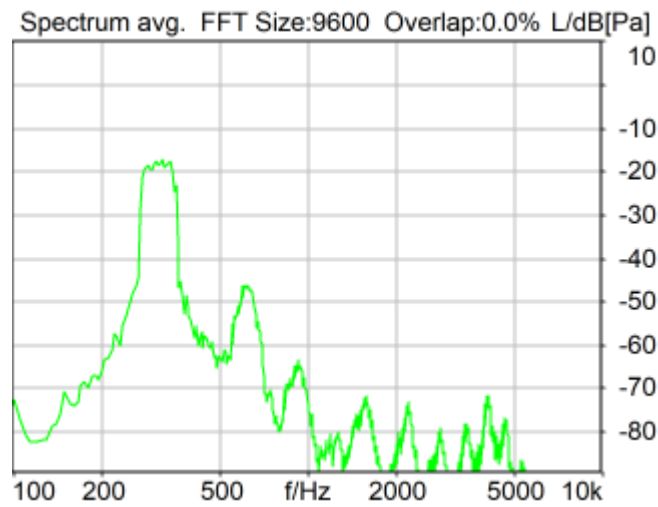
Distortion (Noise) RCV (packed): 27.35 dB (4.29%) Ok

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



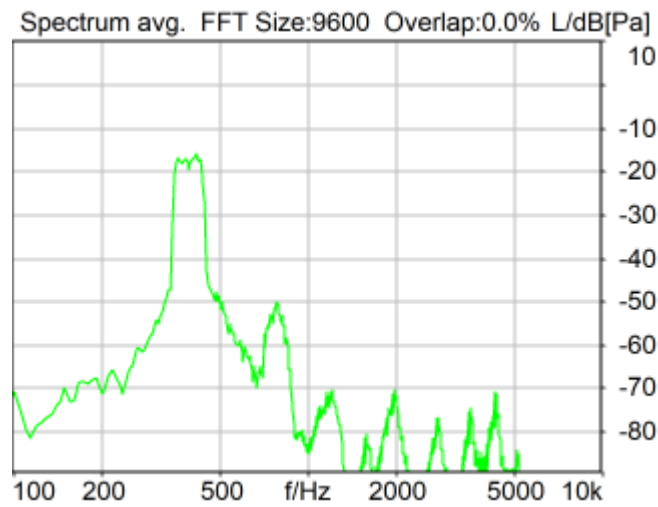
Distortion (Noise) RCV (packed): 29.78 dB (3.24%) Ok

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



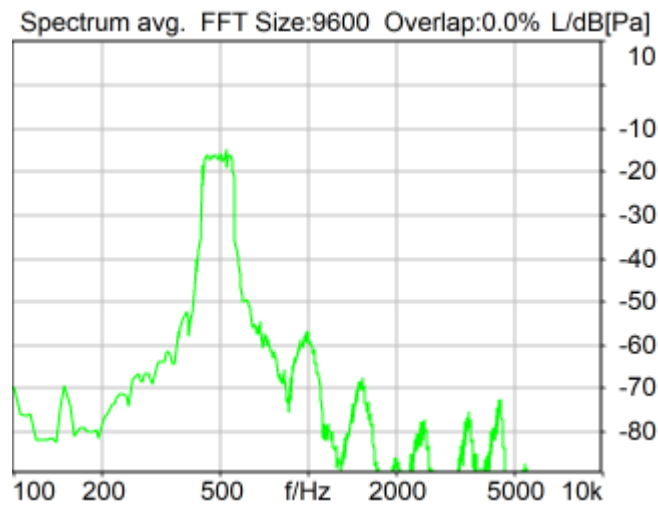
Distortion (Noise) RCV (packed): 32.83 dB (2.28%) Ok

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 2N



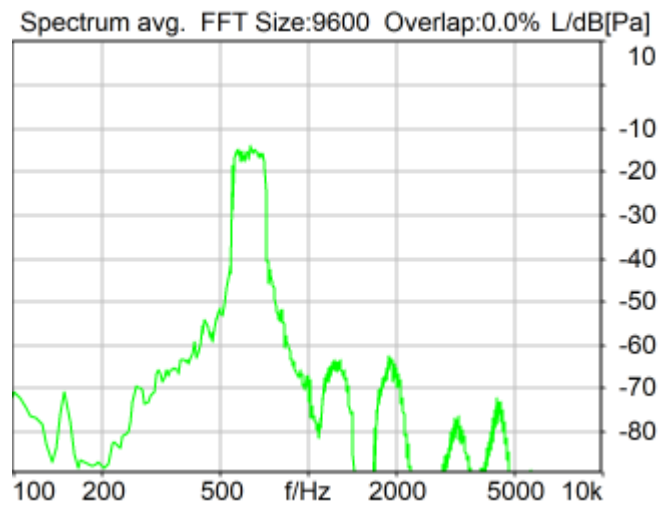
Distortion (Noise) RCV (packed): 35.74 dB (1.63%) Ok

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 2N



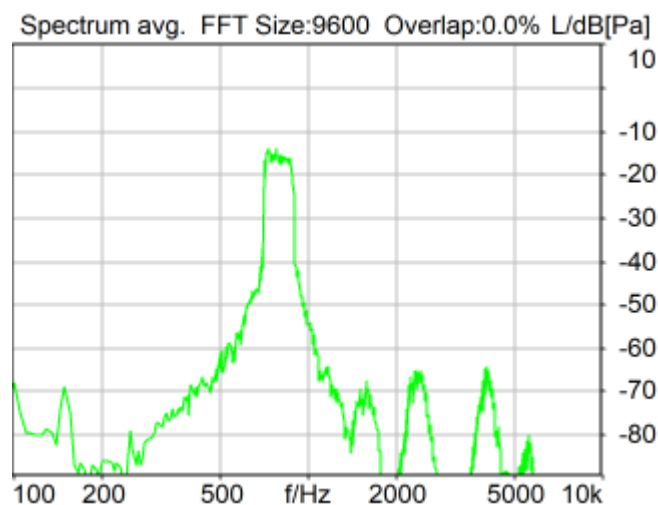
Distortion (Noise) RCV (packed): 35.80 dB (1.62%) Ok

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 2N



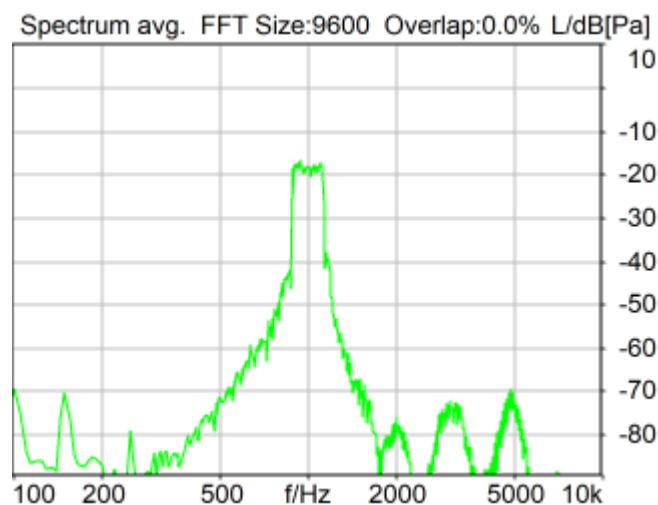
Distortion (Noise) RCV (packed): 33.99 dB (2.00%) Ok

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



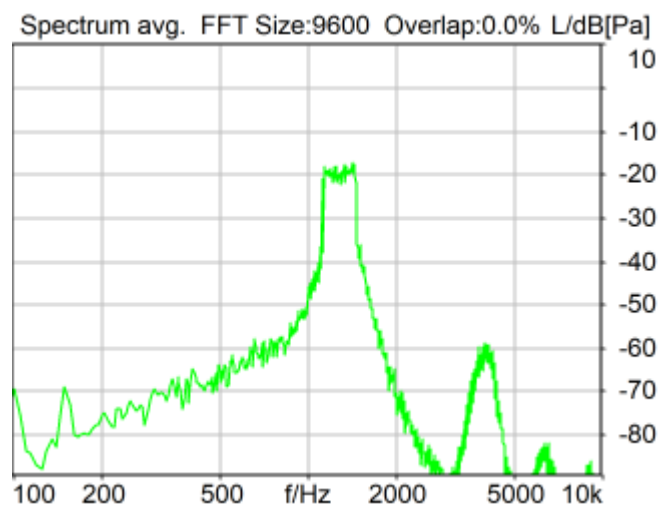
Distortion (Noise) RCV (packed): 28.43 dB (3.79%) Ok

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



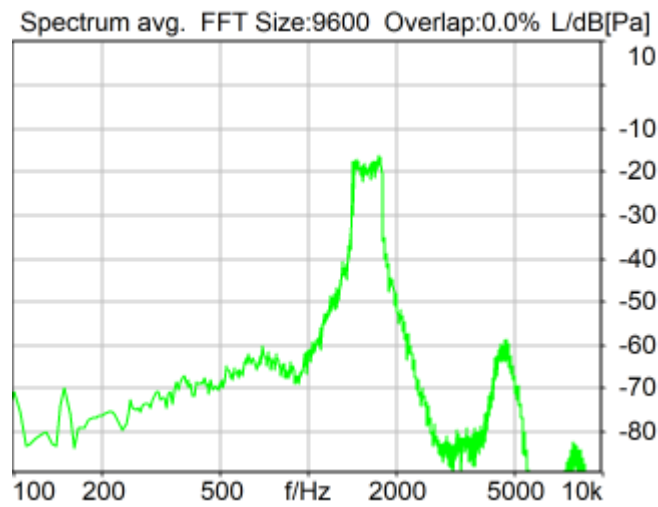
Distortion (Noise) RCV (packed): 21.65 dB (8.27%) Ok

Ok

26/06/25 12:00 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



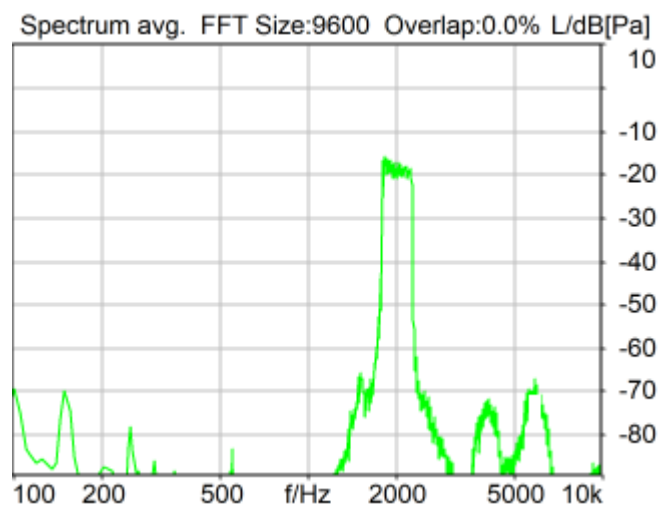
Distortion (Noise) RCV (packed): 24.16 dB (6.19%) Ok

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 2N



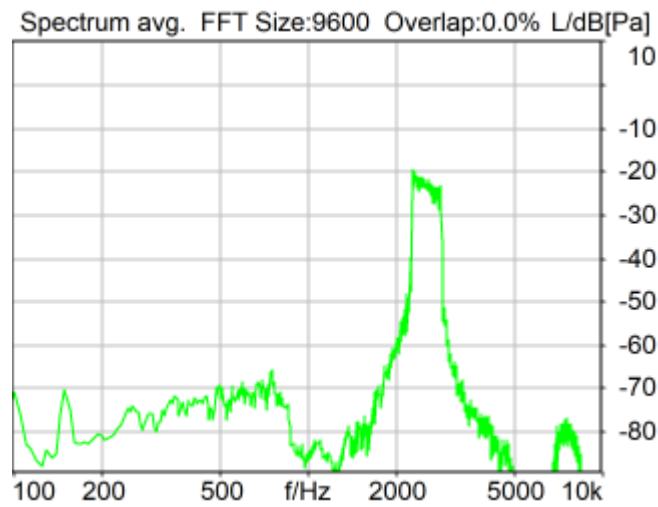
Distortion (Noise) RCV (packed): 43.43 dB (0.67%) Ok

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 2N



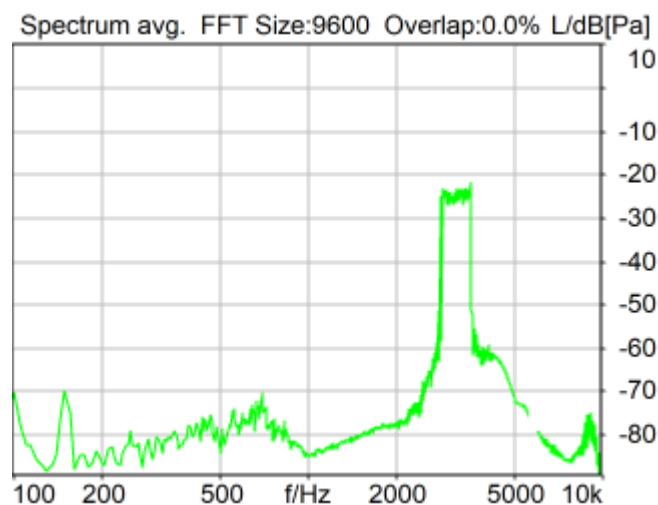
Distortion (Noise) RCV (packed): 31.87 dB (2.55%) Ok

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 2N



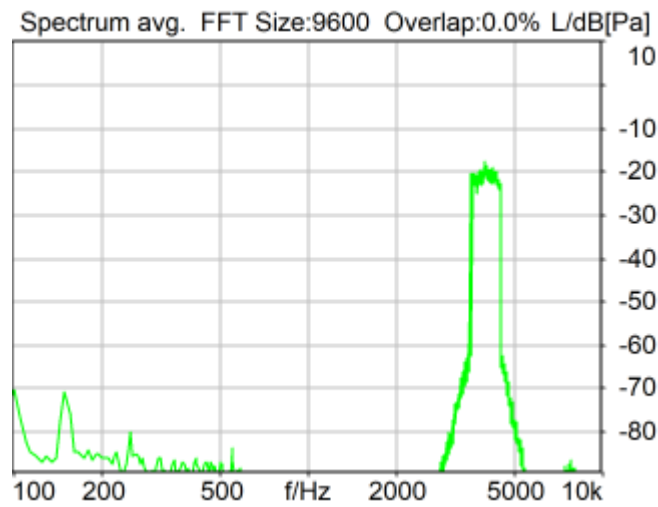
Distortion (Noise) RCV (packed): 32.42 dB (2.39%) Ok

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 2N



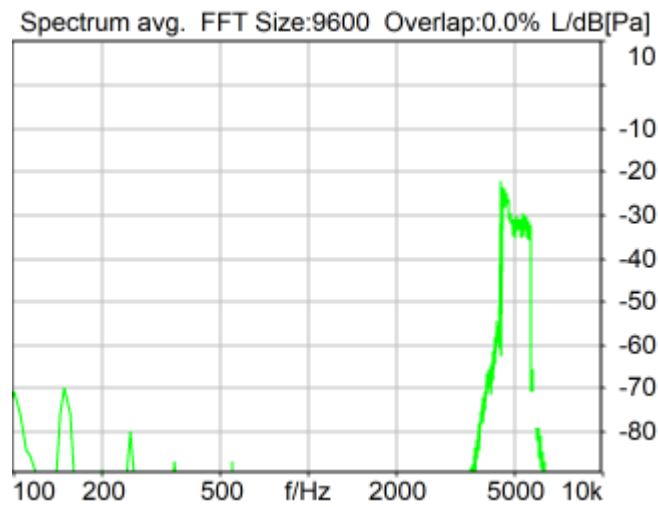
Distortion (Noise) RCV (packed): 46.23 dB (0.49%) Ok

Ok

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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): 35.11 dB (1.76%) 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	27.35 dB
2	315Hz	29.78 dB
3	400Hz	32.83 dB
4	500Hz	35.74 dB
5	630Hz	35.80 dB
6	800Hz	33.99 dB
7	1000Hz	28.43 dB
8	1250Hz	21.65 dB
9	1600Hz	24.16 dB
10	2000Hz	43.43 dB
11	2500Hz	31.87 dB
12	3150Hz	32.42 dB
13	4000Hz	46.23 dB
14	5000Hz	35.11 dB

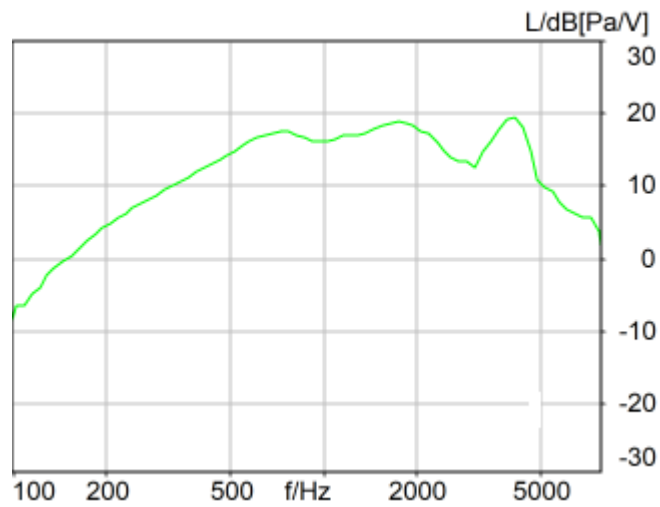
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.65dB at 1250Hz.

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5.3 Frequency Response 2N FF

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



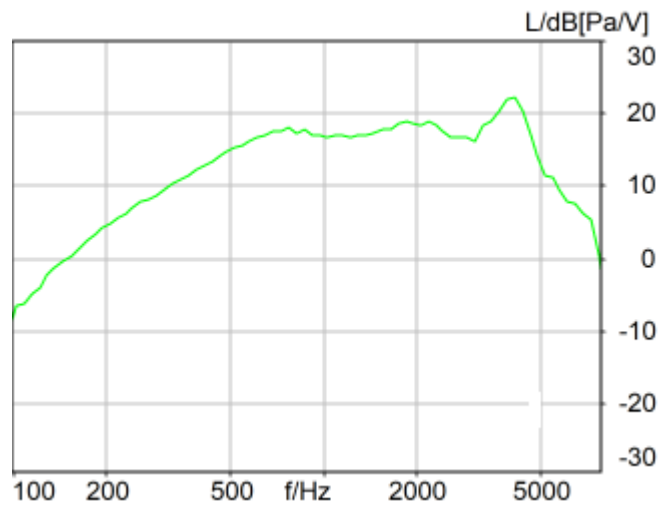
Absolute minimal distance
1.48 dB at 776.5 Hz Ok

Ok

26/06/25 12:28 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.11 dB at 4119.5 Hz Ok

Ok

26/06/25 12:29 ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
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Project	#R2620373
Report Generation Date	26/07/01 1:31
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	283.9	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	85.42	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.55	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.18	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.92	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.90	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.46	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.72	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.89	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.10	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.12	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.90	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.57	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.68	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.00	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.64	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	23.12	FR1

ACQUA Report
4kbps_Ch633332_2N

Title: FR1 n77_100M_QPSK_1_1_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1600Hz)		n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	1.91	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.33	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_2N

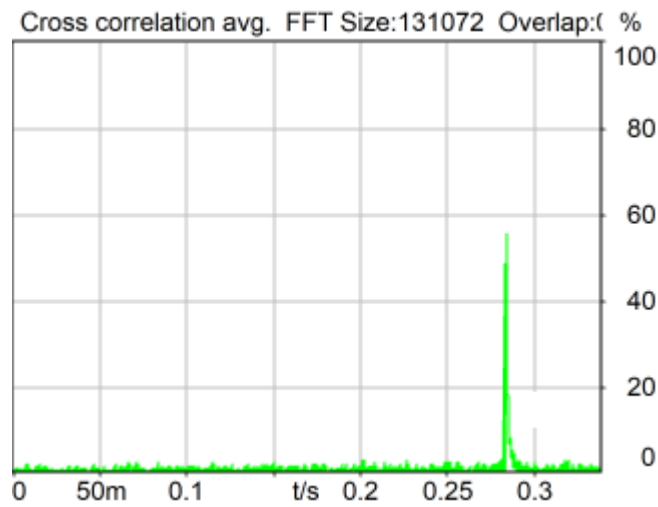
ACQUA Report
4kbps_Ch633332_2N

Title: FR1 n77_100M_QPSK_1_1_EVS WB 24.

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

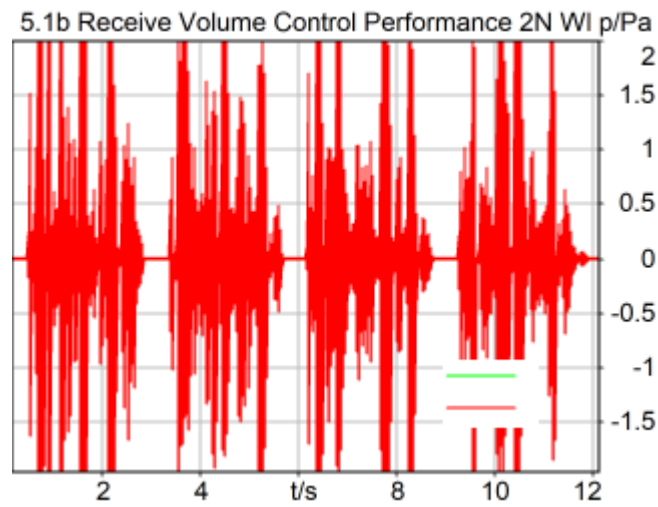


Delay (Cross): 283.9 ms

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5.1b Receive Volume Control Performance 2N WB

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



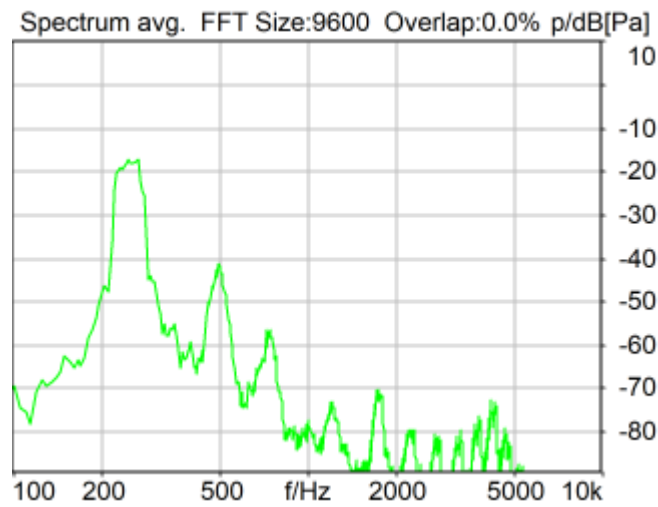
Speech Level RCV: 85.42 dB[SPL], Act.: 83.18% Ok

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 2N



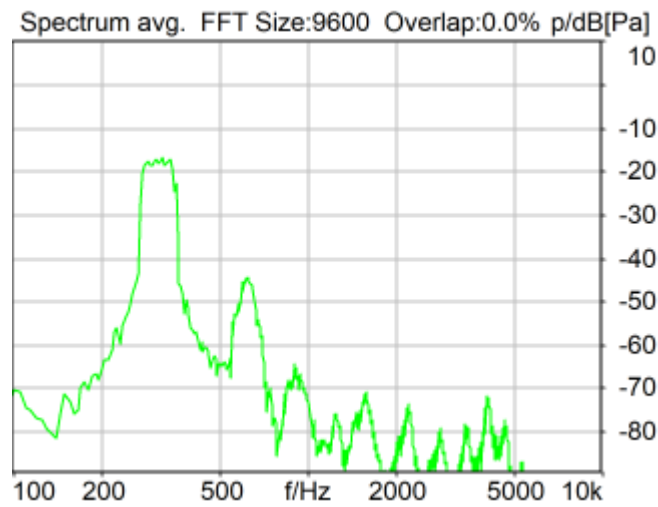
Distortion (Noise) RCV (packed): 27.55 dB (4.19%) Ok

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



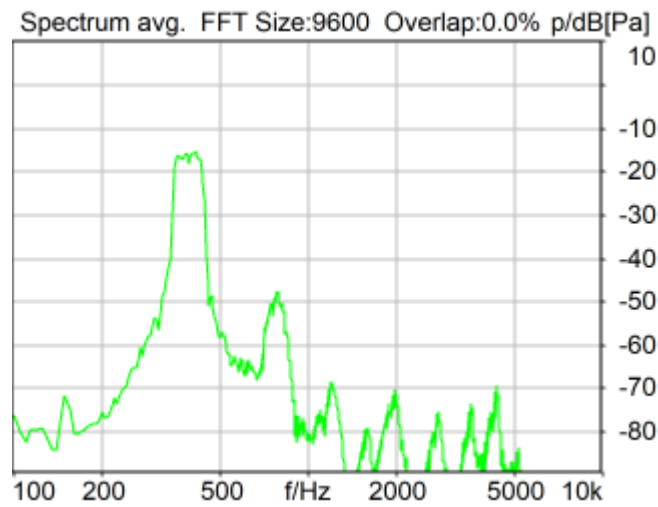
Distortion (Noise) RCV (packed): 29.18 dB (3.47%) Ok

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



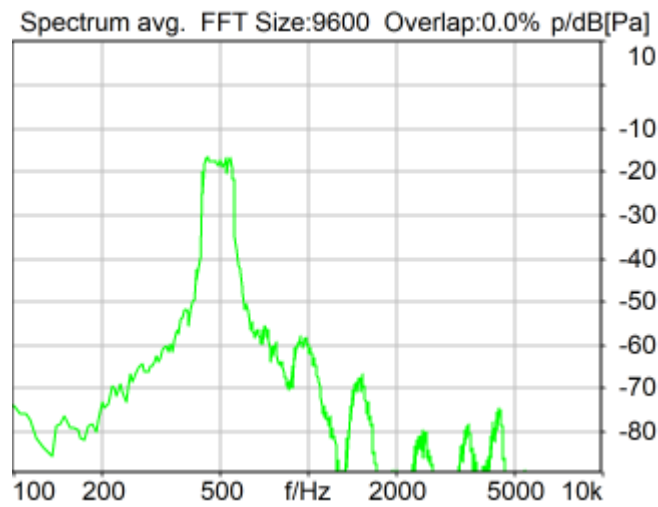
Distortion (Noise) RCV (packed): 32.92 dB (2.26%) Ok

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 2N



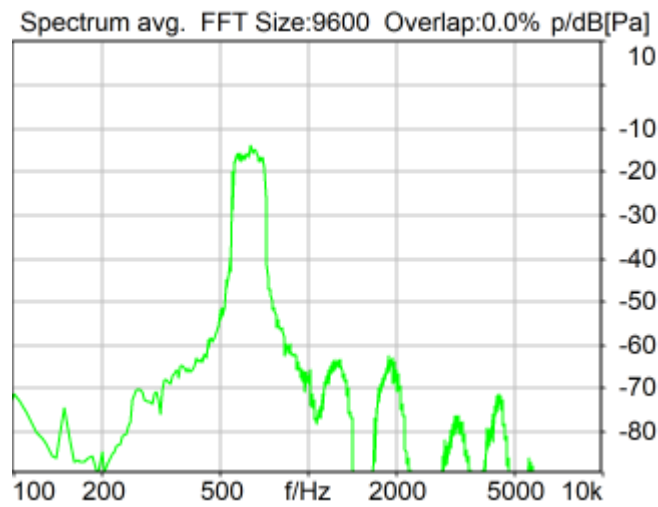
Distortion (Noise) RCV (packed): 34.90 dB (1.80%) Ok

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 2N



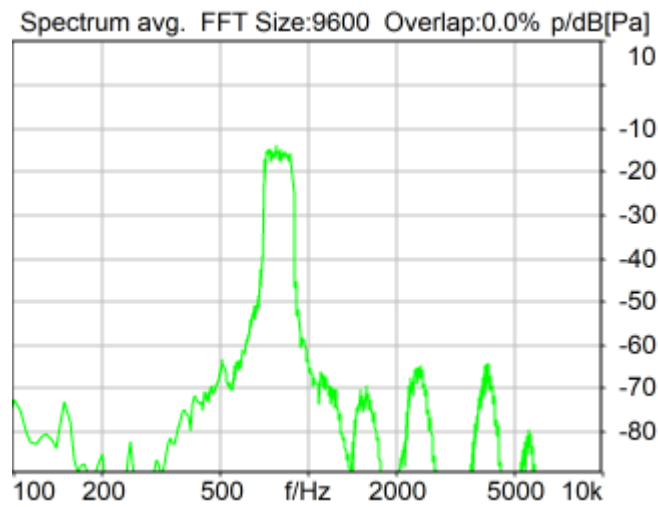
Distortion (Noise) RCV (packed): 37.46 dB (1.34%) Ok

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 2N



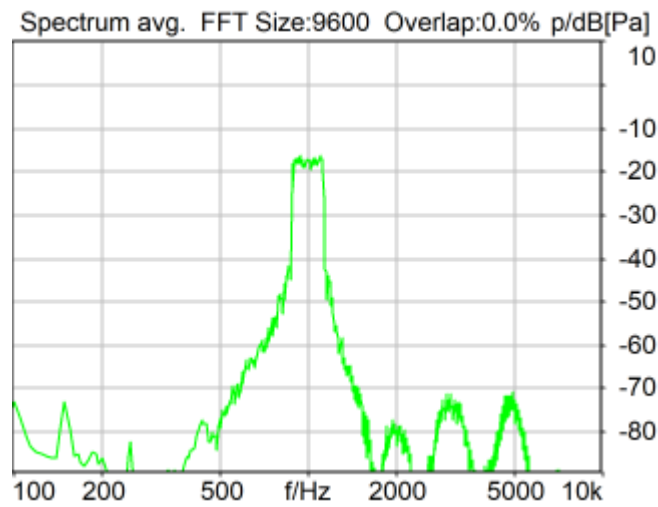
Distortion (Noise) RCV (packed): 39.72 dB (1.03%) Ok

Ok

26/07/01 1:26 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



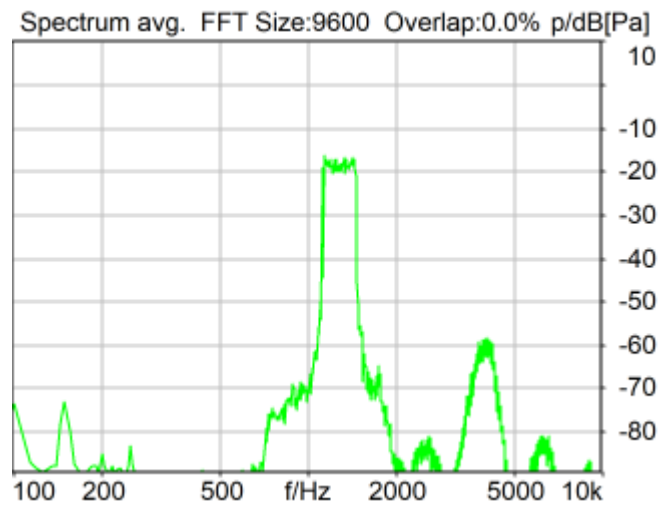
Distortion (Noise) RCV (packed): 31.89 dB (2.54%) Ok

Ok

26/07/01 1:26 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



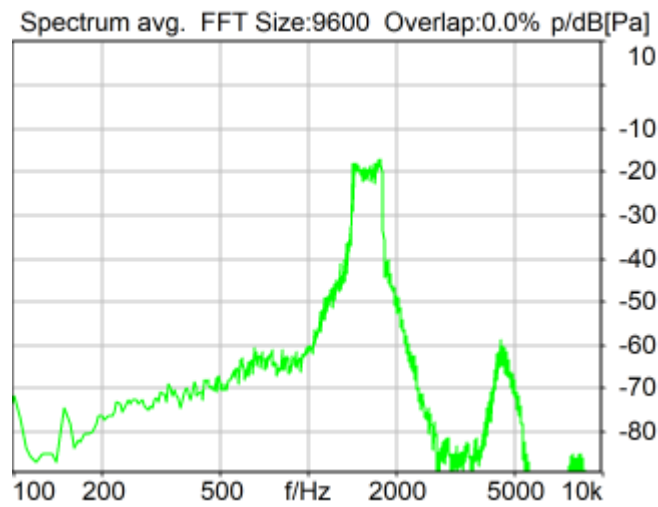
Distortion (Noise) RCV (packed): 32.10 dB (2.48%) Ok

Ok

26/07/01 1:27 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



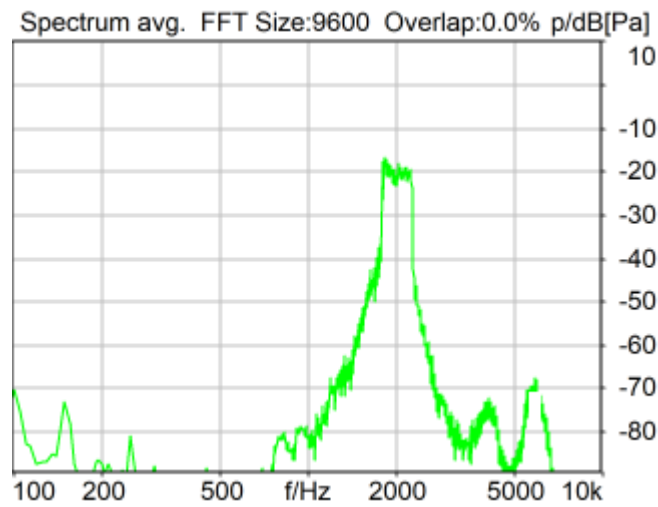
Distortion (Noise) RCV (packed): 23.12 dB (6.98%) Ok

Ok

26/07/01 1:27 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



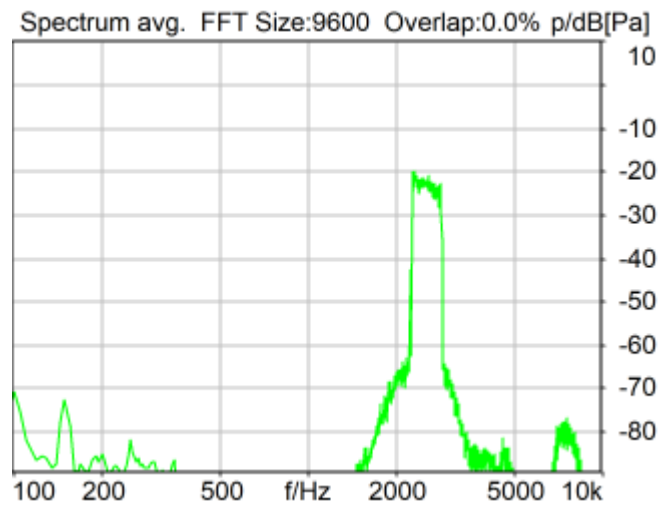
Distortion (Noise) RCV (packed): 25.90 dB (5.07%) Ok

Ok

26/07/01 1:28 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



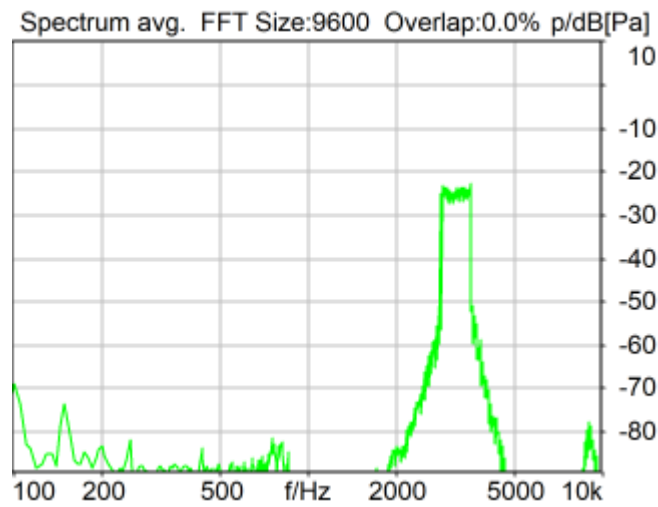
Distortion (Noise) RCV (packed): 42.57 dB (0.74%) Ok

Ok

26/07/01 1:28 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



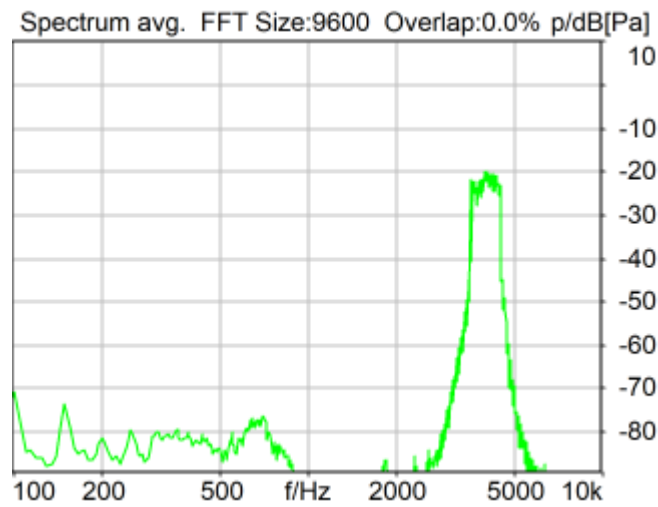
Distortion (Noise) RCV (packed): 33.68 dB (2.07%) Ok

Ok

26/07/01 1:29 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



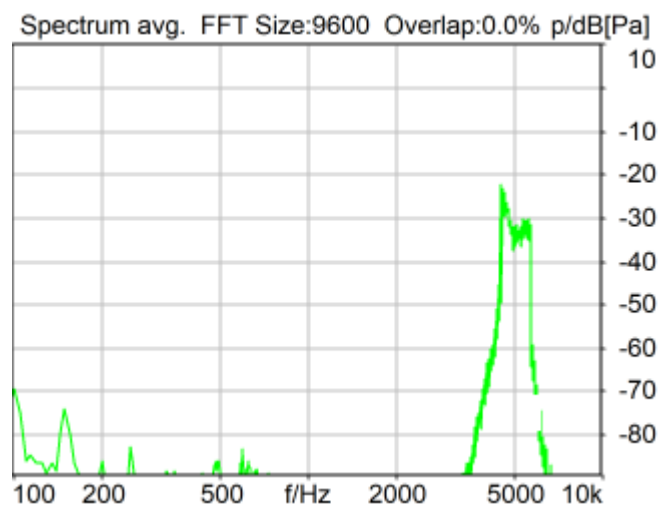
Distortion (Noise) RCV (packed): 30.00 dB (3.16%) Ok

Ok

26/07/01 1:29 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): 30.64 dB (2.94%) Ok

Ok

26/07/01 1:30 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	27.55 dB
2	315Hz	29.18 dB
3	400Hz	32.92 dB
4	500Hz	34.90 dB
5	630Hz	37.46 dB
6	800Hz	39.72 dB
7	1000Hz	31.89 dB
8	1250Hz	32.10 dB
9	1600Hz	23.12 dB
10	2000Hz	25.90 dB
11	2500Hz	42.57 dB
12	3150Hz	33.68 dB
13	4000Hz	30.00 dB
14	5000Hz	30.64 dB

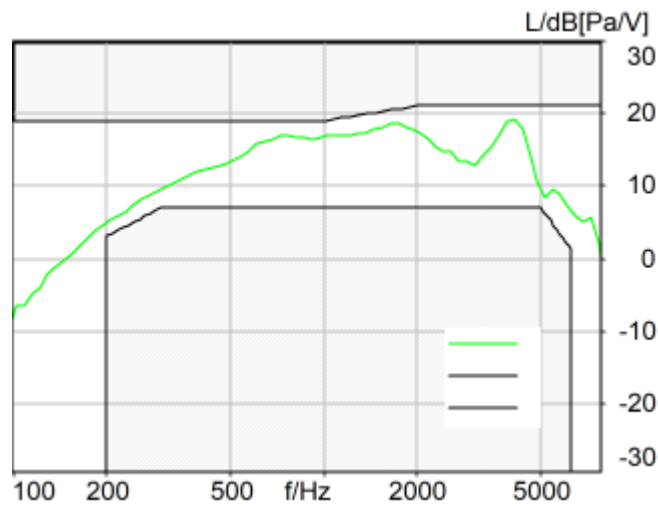
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.12dB at 1600Hz.

26/07/01 1:30 ACQUA

5.3 Frequency Response 2N FF

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



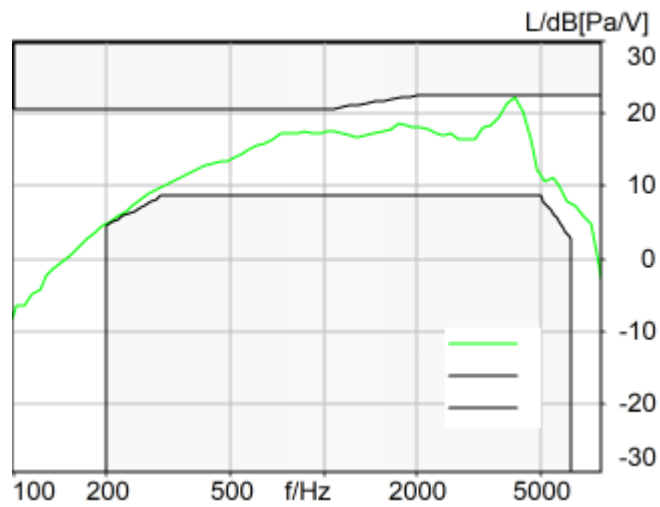
Absolute minimal distance
1.91 dB at 4119.5 Hz Ok

Ok

26/07/01 1:30 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.33 dB at 4119.5 Hz Ok

Ok

26/07/01 1:31 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 24.4kbps_Ch116_8N
--------------------	---

Project	#R2620373
Report Generation Date	26/07/01 8:09
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	212.9	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.93	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.40	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.78	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.55	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.30	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.66	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.66	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.78	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.67	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.41	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.35	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.12	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.27	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.65	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.29	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.67	WLAN5GHz_802.11a

ACQUA Report
4kbps_Ch116_8N

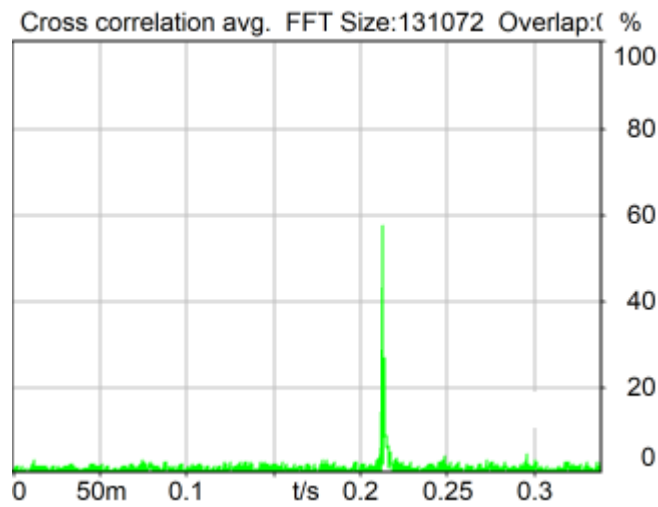
Title: WLAN5GHz_802.11a 6Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	0.47	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 873.9 Hz	1.36	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch116_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

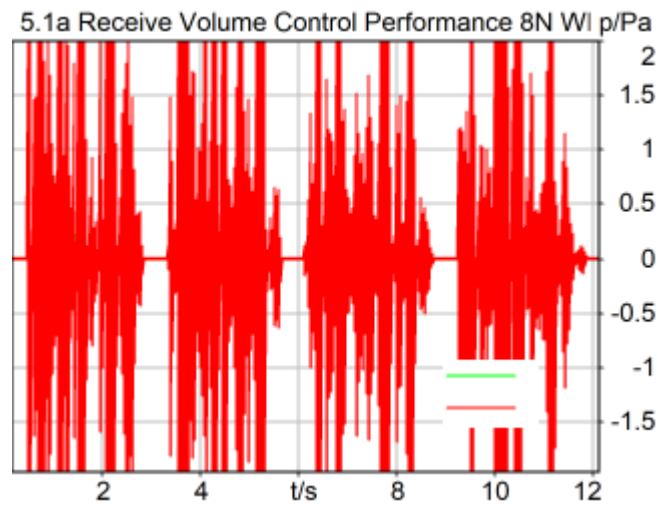


Delay (Cross): 212.9 ms

26/07/01 7:57 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



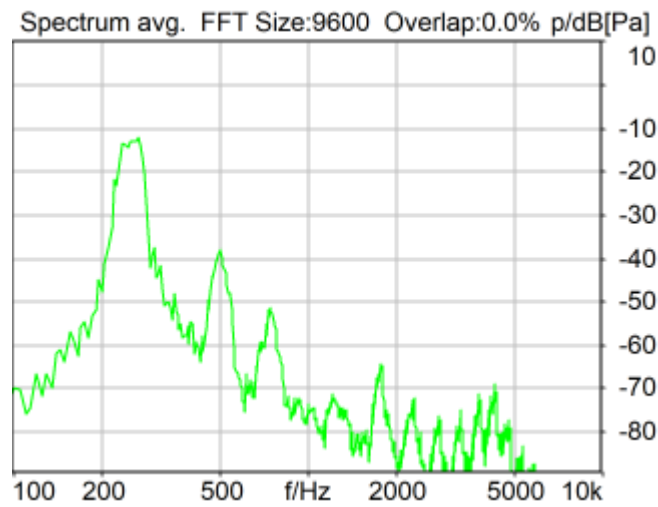
Speech Level RCV: 89.93 dB[SPL], Act.: 81.75% Ok

Ok

26/07/01 7:57 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



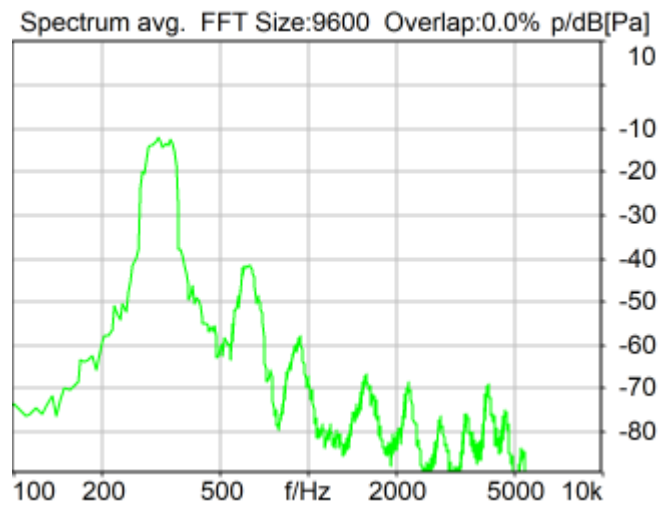
Distortion (Noise) RCV (packed): 28.40 dB (3.80%) Ok

Ok

26/07/01 7:58 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



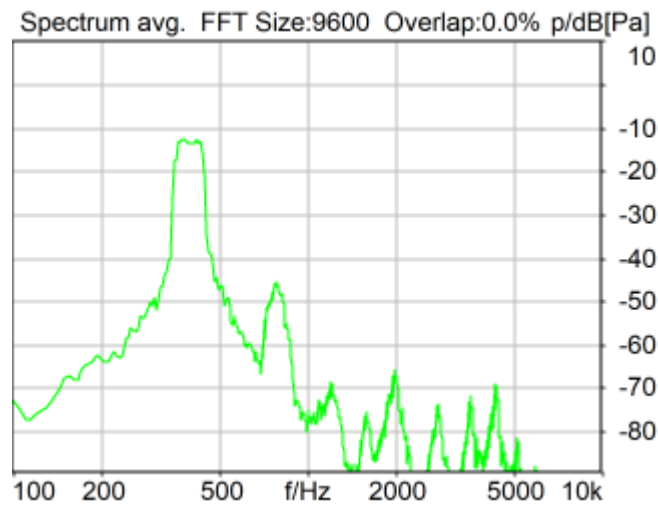
Distortion (Noise) RCV (packed): 29.78 dB (3.24%) Ok

Ok

26/07/01 8:02 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



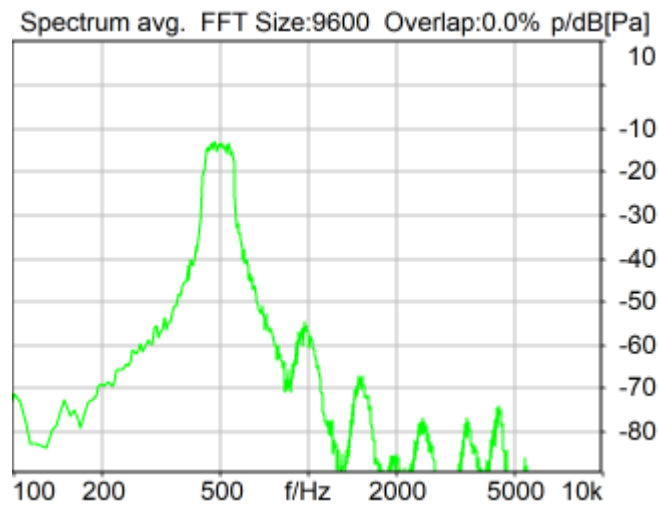
Distortion (Noise) RCV (packed): 32.55 dB (2.36%) Ok

Ok

26/07/01 8:01 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



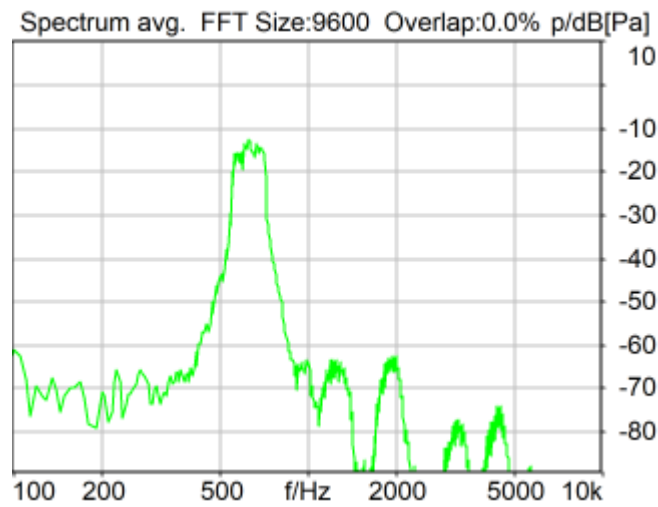
Distortion (Noise) RCV (packed): 30.30 dB (3.05%) Ok

Ok

26/07/01 7:59 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



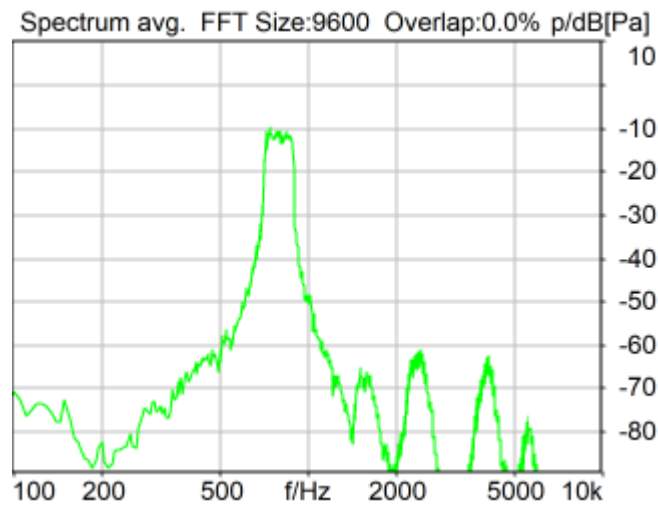
Distortion (Noise) RCV (packed): 31.66 dB (2.61%) Ok

Ok

26/07/01 8:00 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



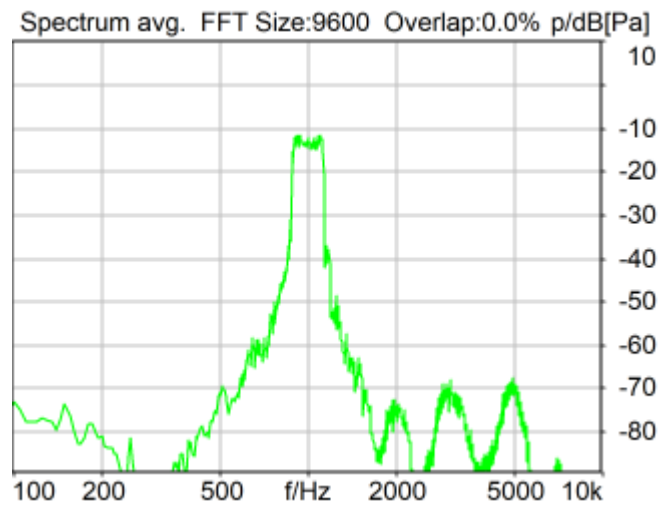
Distortion (Noise) RCV (packed): 33.66 dB (2.07%) Ok

Ok

26/07/01 8:03 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



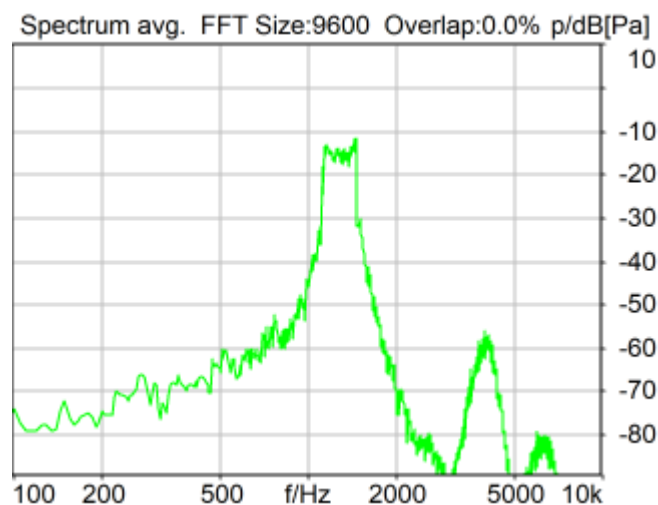
Distortion (Noise) RCV (packed): 32.78 dB (2.30%) Ok

Ok

26/07/01 8:04 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



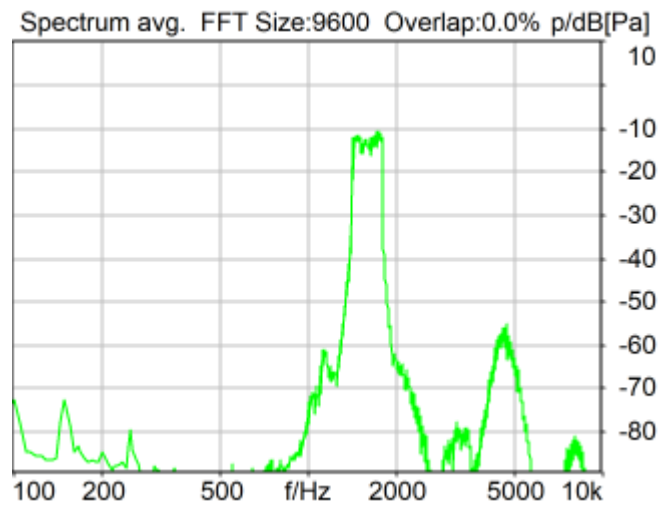
Distortion (Noise) RCV (packed): 20.67 dB (9.26%) Ok

Ok

26/07/01 8:04 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



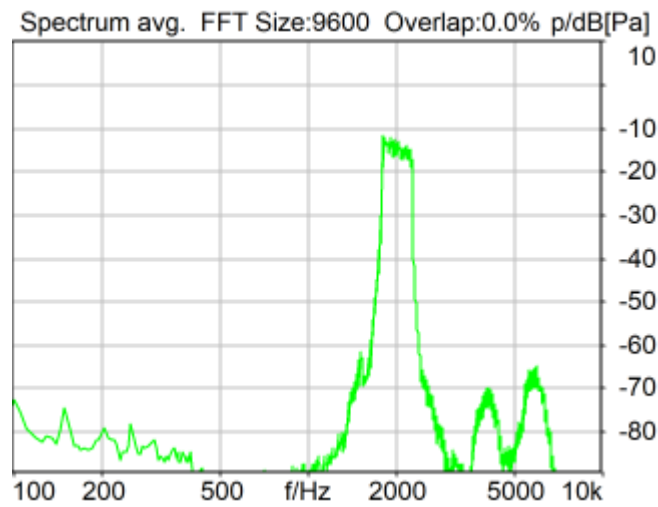
Distortion (Noise) RCV (packed): 37.41 dB (1.35%) Ok

Ok

26/07/01 8:05 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



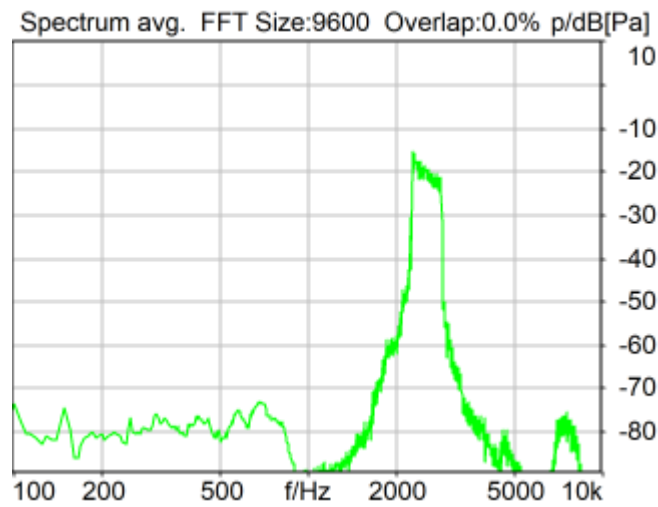
Distortion (Noise) RCV (packed): 35.35 dB (1.71%) Ok

Ok

26/07/01 8:05 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



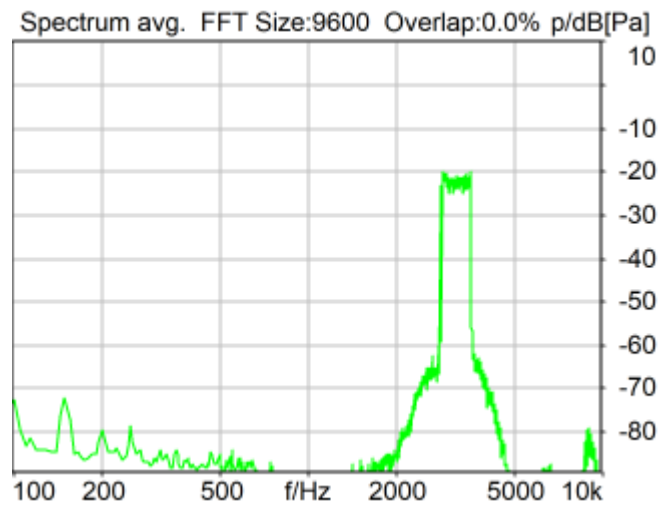
Distortion (Noise) RCV (packed): 31.12 dB (2.78%) Ok

Ok

26/07/01 8:06 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



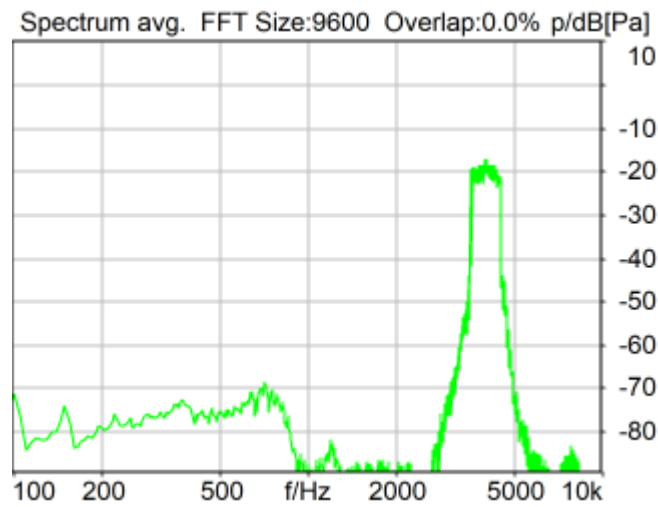
Distortion (Noise) RCV (packed): 41.27 dB (0.86%) Ok

Ok

26/07/01 8:06 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



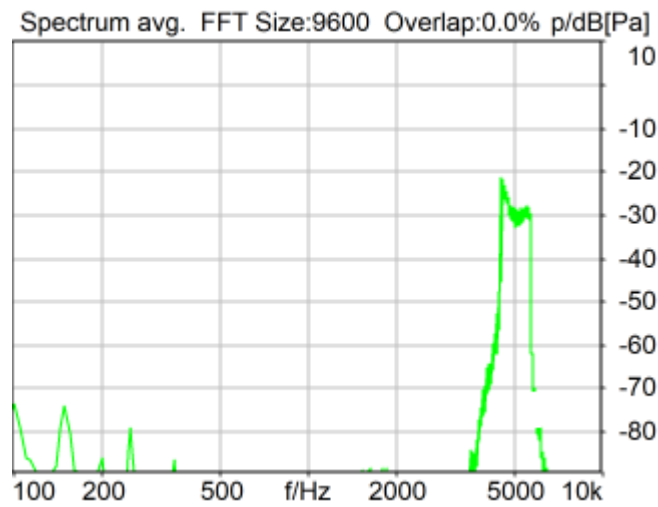
Distortion (Noise) RCV (packed): 31.65 dB (2.62%) Ok

Ok

26/07/01 8:07 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): 34.29 dB (1.93%) Ok

Ok

26/07/01 8:07 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	28.40 dB
2	630Hz	31.66 dB
3	315Hz	29.78 dB
4	800Hz	33.66 dB
5	1000Hz	32.78 dB
6	1250Hz	20.67 dB
7	1600Hz	37.41 dB
8	2000Hz	35.35 dB
9	2500Hz	31.12 dB
10	3150Hz	41.27 dB
11	4000Hz	31.65 dB
12	5000Hz	34.29 dB

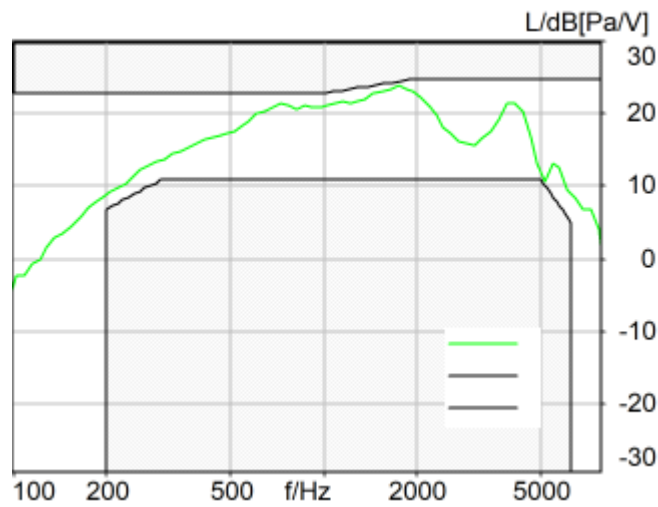
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.67dB at 1250Hz.

26/07/01 8:07 ACQUA

5.3 Frequency Response 8N FF

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



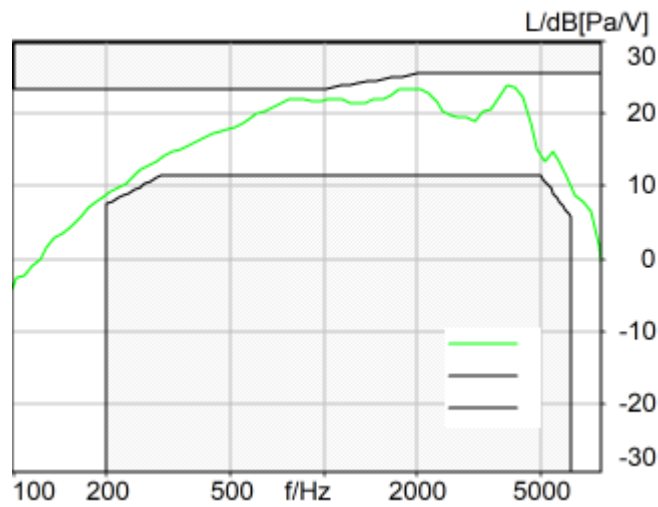
Absolute minimal distance
0.47 dB at 1747.8 Hz Ok

Ok

26/07/01 8:08 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.36 dB at 873.9 Hz Ok

Ok

26/07/01 8:08 ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N
--------------------	--

Project	#R2620373
Report Generation Date	26/07/03 9:55
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	170.4	GSM1900_GSM Voice_AMR NB 4. 75kbps_Ch661_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.65	GSM1900_GSM Voice_AMR NB 4. 75kbps_Ch661_2N

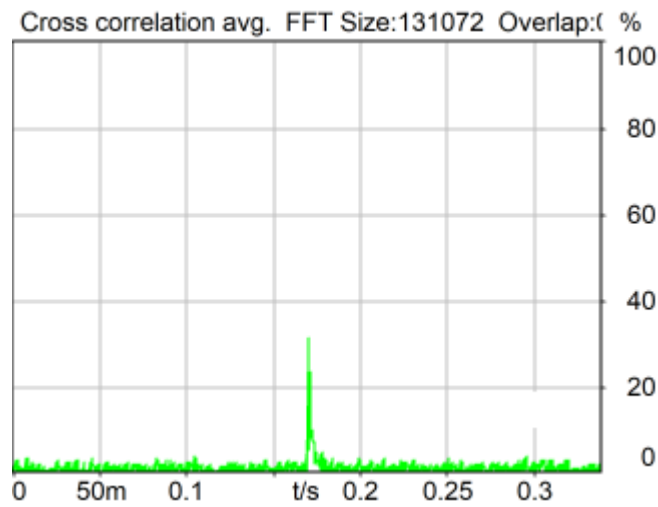
ACQUA Report
75kbps_Ch661_2N

Title: GSM1900_GSM Voice_AMR NB 4.

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

Overall Receive Delay NB

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

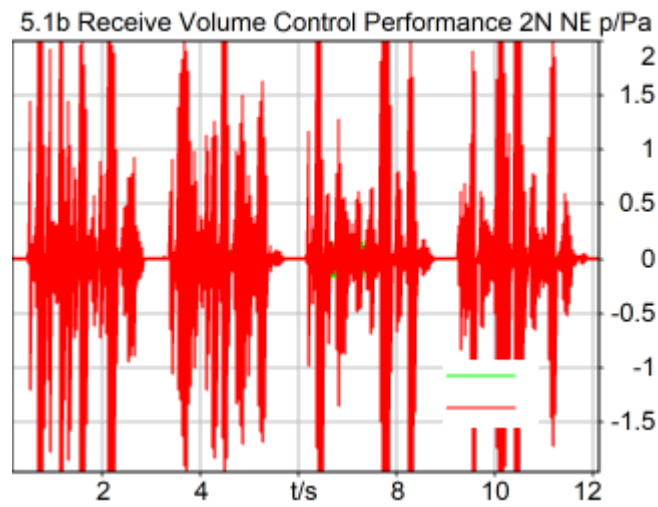


Delay (Cross): 170.4 ms

26/07/03 9:55 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 84.65 dB[SPL], Act.: 80.29% Ok

Ok

26/07/03 9:55 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA V_Voice_AMR NB 4.75kbps_Ch4182_2N
--------------------	---

Project	#R2620373
Report Generation Date	26/07/03 1:06
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	178.7	WCDMA V_Voice_AMR NB 4. 75kbps_Ch4182_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.96	WCDMA V_Voice_AMR NB 4. 75kbps_Ch4182_2N

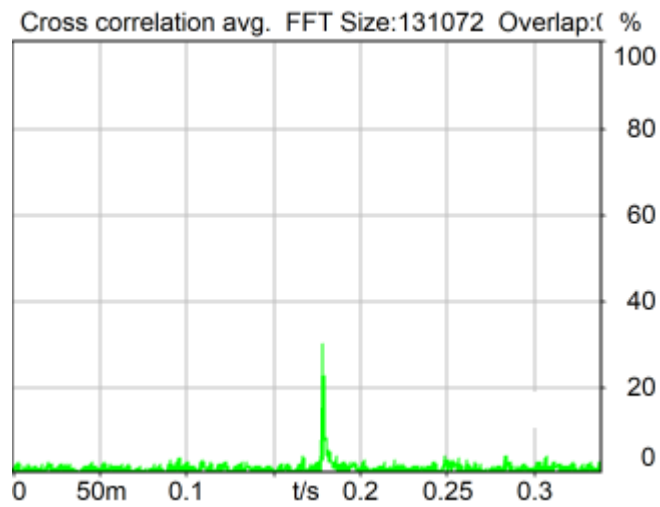
ACQUA Report
75kbps_Ch4182_2N

Title: WCDMA V_Voice_AMR NB 4.

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

Overall Receive Delay NB

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

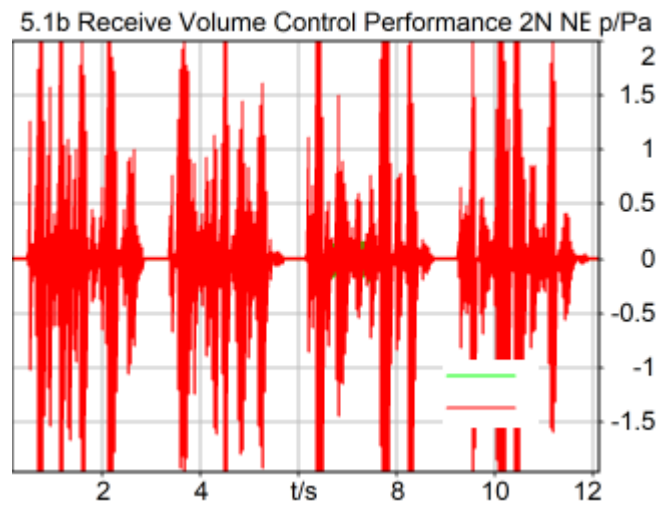


Delay (Cross): 178.7 ms

26/07/03 1:03 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 84.96 dB[SPL], Act.: 79.64% Ok

Ok

26/07/03 1:04 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 13_10M_QPSK_1_0_EVS WB 5.9kbps_Ch23230_2N
--------------------	--

Project	#R2620373
Report Generation Date	26/07/03 17:28
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	109.4	LTE Band 13_10M_QPSK_1_0_EVS WB 5.9kbps_Ch23230_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.09	LTE Band 13_10M_QPSK_1_0_EVS WB 5.9kbps_Ch23230_2N

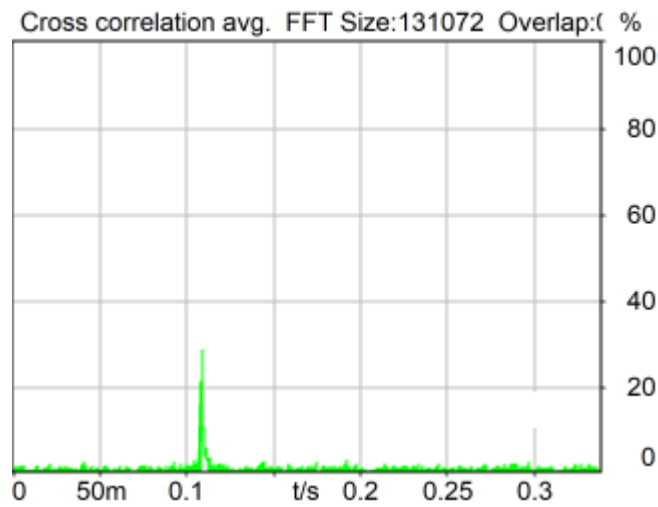
ACQUA Report
9kbps_Ch23230_2N

Title: LTE Band 13_10M_QPSK_1_0_EVS WB 5.

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

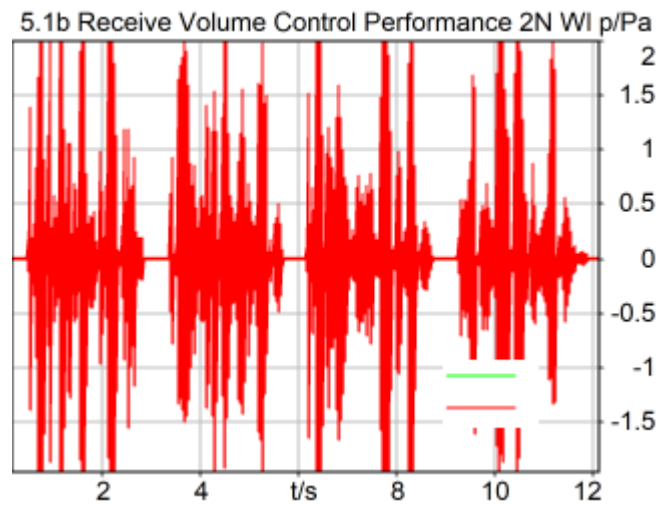


Delay (Cross): 109.4 ms

26/07/03 17:27 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 84.09 dB[SPL], Act.: 83.95% Ok

Ok

26/07/03 17:27 ACQUA 5.1.200

ACQUA Report
75kbps_Ch518598_2N

Title: 07_FR1 n41_100M_QPSK_1_1_AMR NB 4.

Measurement Protocol

Measurement Object	FR1 n41_100M_QPSK_1_1_AMR NB 4.75kbps_Ch518598_2N
--------------------	---

Project	#R2620373
Report Generation Date	26/07/02 13:24
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	249.9	FR1 n41_100M_QPSK_1_1_AMR NB 4.75kbps_Ch518598_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.69	FR1 n41_100M_QPSK_1_1_AMR NB 4.75kbps_Ch518598_2N

ACQUA Report
75kbps_Ch518598_2N

Title: FR1 n41_100M_QPSK_1_1_AMR NB 4.

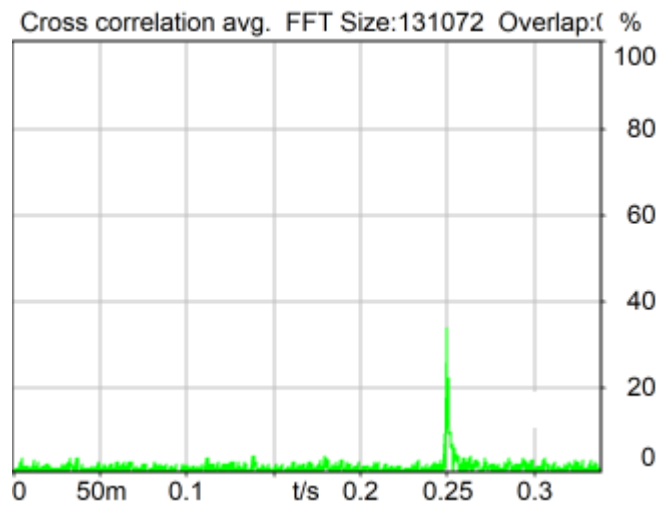
Overall Receive Delay NB	5
5.1b Receive Volume Control Performance 2N NB	6

ACQUA Report
75kbps_Ch518598_2N

Title: FR1 n41_100M_QPSK_1_1_AMR NB 4.

Overall Receive Delay NB

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

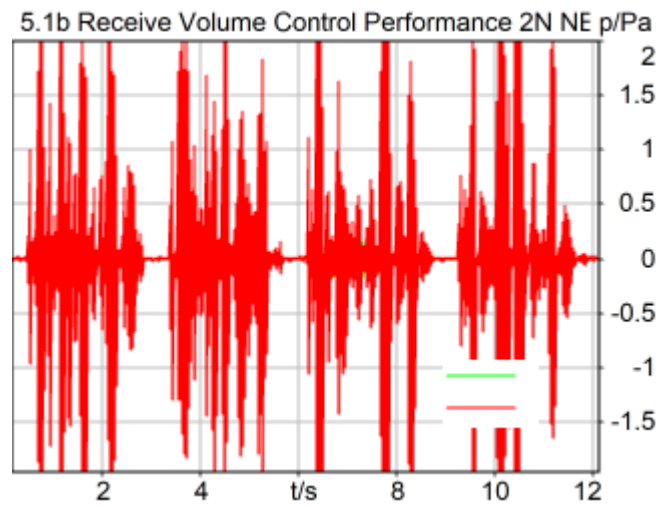


Delay (Cross): 249.9 ms

26/07/02 13:23 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 84.69 dB[SPL], Act.: 80.25% Ok

Ok

26/07/02 13:23 ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
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Project	#R2620373
Report Generation Date	26/07/01 1:17
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	282.4	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.25	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.72	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.51	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.01	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.29	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.43	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.92	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.53	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.14	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.78	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.89	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.39	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.04	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.52	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.10	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	27.72	FR1

ACQUA Report
4kbps_Ch633332_8N

Title: FR1 n77_100M_QPSK_1_1_EVS WB 24.

and Noise (Conversational Gain)		(occured at 250Hz)		n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	0.67	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 873.9 Hz	1.75	FR1 n77_100M_QPSK_1_1_EVS WB 24.4kbps_Ch633332_8N

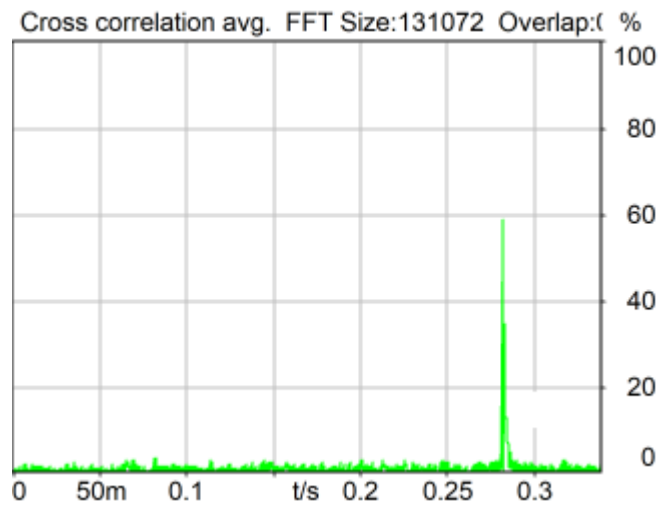
ACQUA Report
4kbps_Ch633332_8N

Title: FR1 n77_100M_QPSK_1_1_EVS WB 24.

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

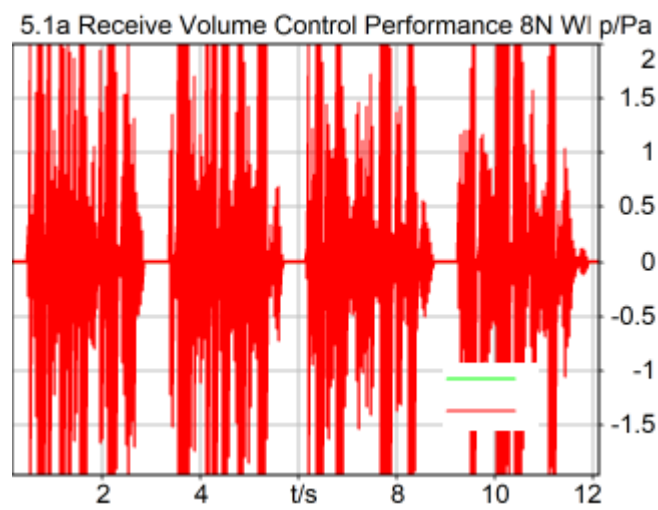


Delay (Cross): 282.4 ms

26/07/01 1:08 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



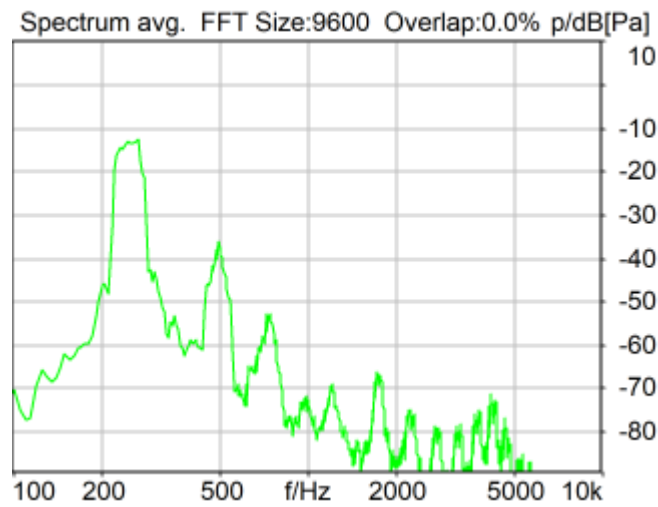
Speech Level RCV: 89.25 dB[SPL], Act.: 83.44% Ok

Ok

26/07/01 1:08 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



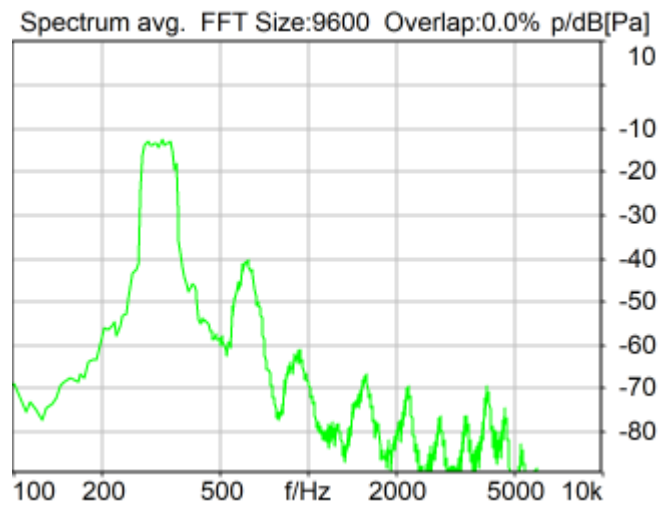
Distortion (Noise) RCV (packed): 27.72 dB (4.11%) Ok

Ok

26/07/01 1:09 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



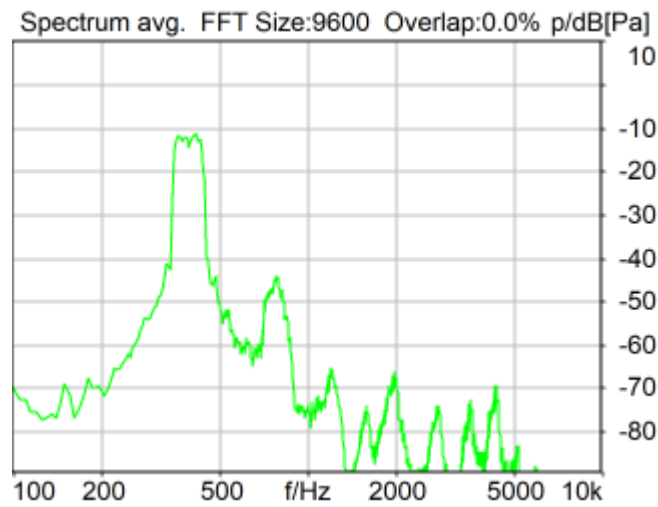
Distortion (Noise) RCV (packed): 29.51 dB (3.35%) Ok

Ok

26/07/01 1:09 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



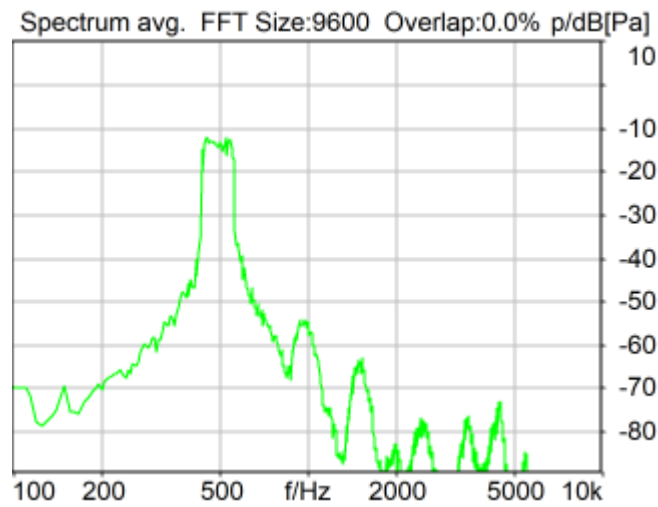
Distortion (Noise) RCV (packed): 33.01 dB (2.24%) Ok

Ok

26/07/01 1:09 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



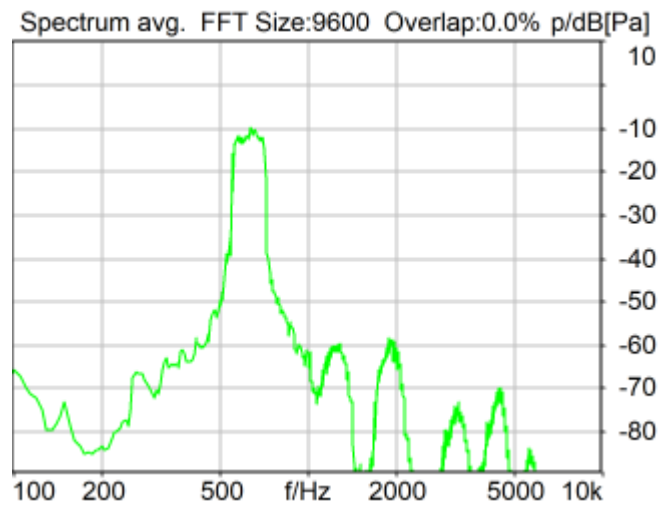
Distortion (Noise) RCV (packed): 34.29 dB (1.93%) Ok

Ok

26/07/01 1:10 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



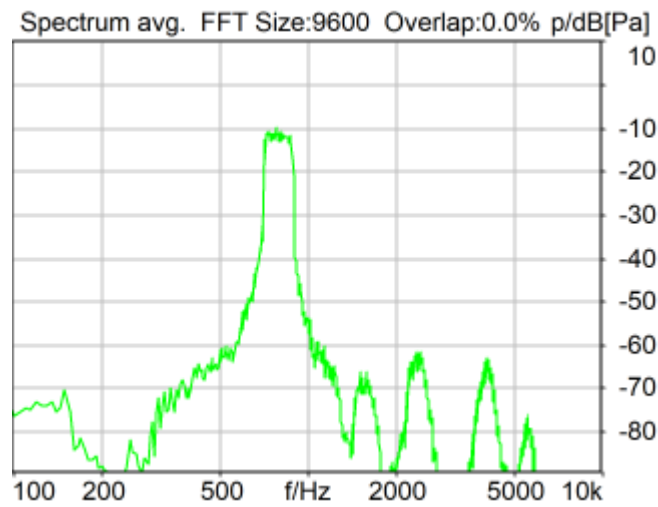
Distortion (Noise) RCV (packed): 37.43 dB (1.34%) Ok

Ok

26/07/01 1:10 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



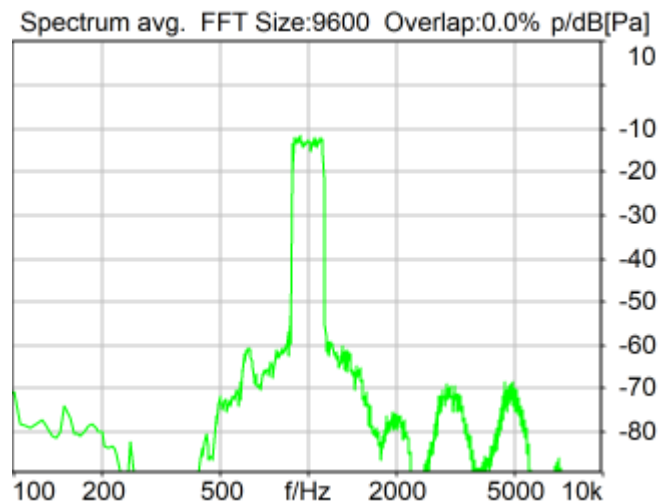
Distortion (Noise) RCV (packed): 37.92 dB (1.27%) Ok

Ok

26/07/01 1:11 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



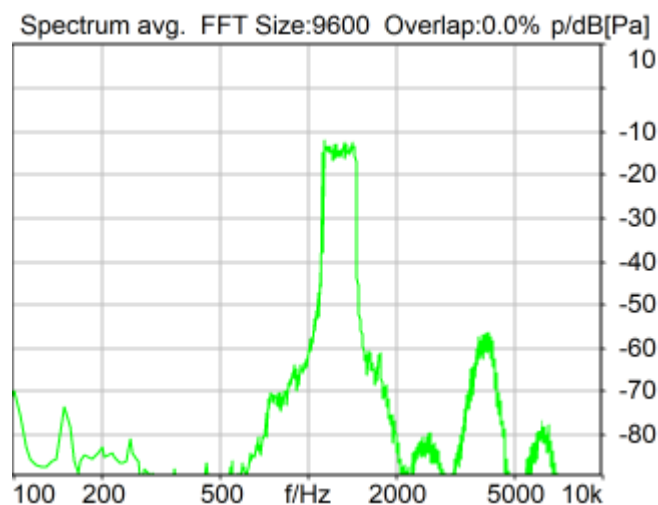
Distortion (Noise) RCV (packed): 44.53 dB (0.59%) Ok

Ok

26/07/01 1:11 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



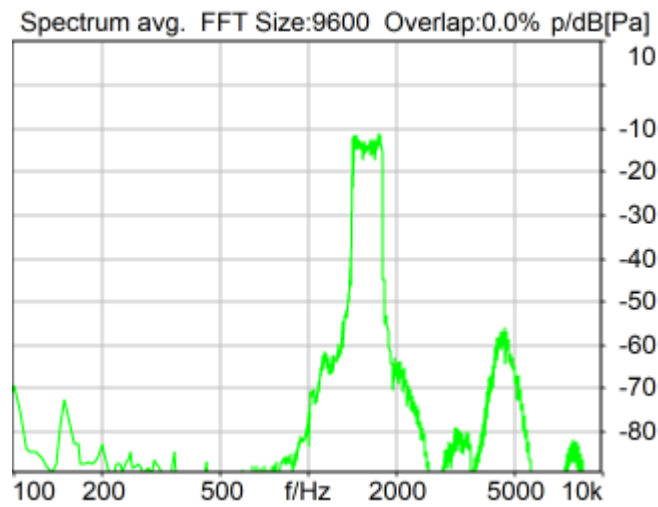
Distortion (Noise) RCV (packed): 32.14 dB (2.47%) Ok

Ok

26/07/01 1:12 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



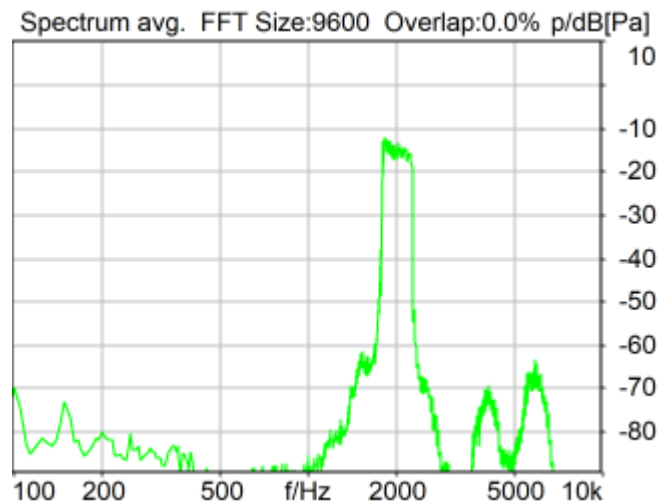
Distortion (Noise) RCV (packed): 39.78 dB (1.03%) Ok

Ok

26/07/01 1:12 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



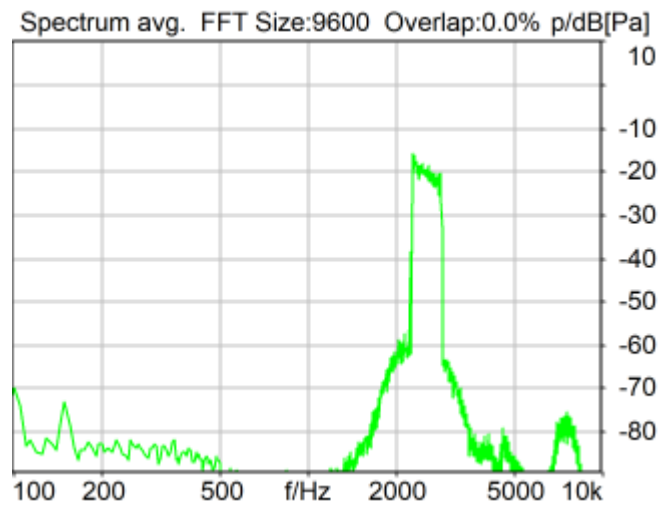
Distortion (Noise) RCV (packed): 42.89 dB (0.72%) Ok

Ok

26/07/01 1:13 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



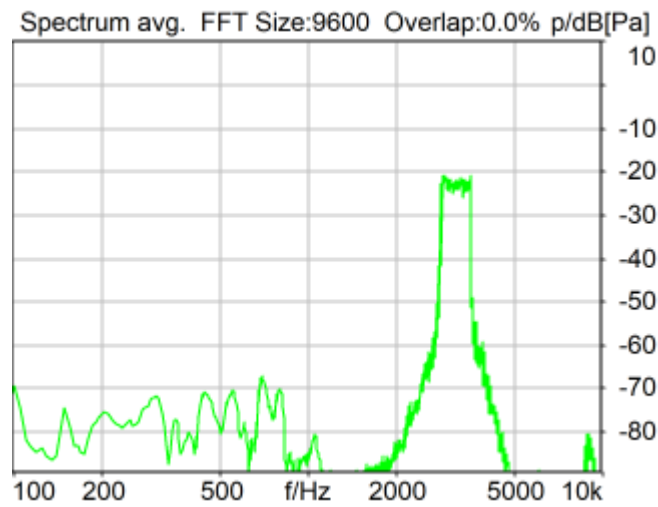
Distortion (Noise) RCV (packed): 41.39 dB (0.85%) Ok

Ok

26/07/01 1:13 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



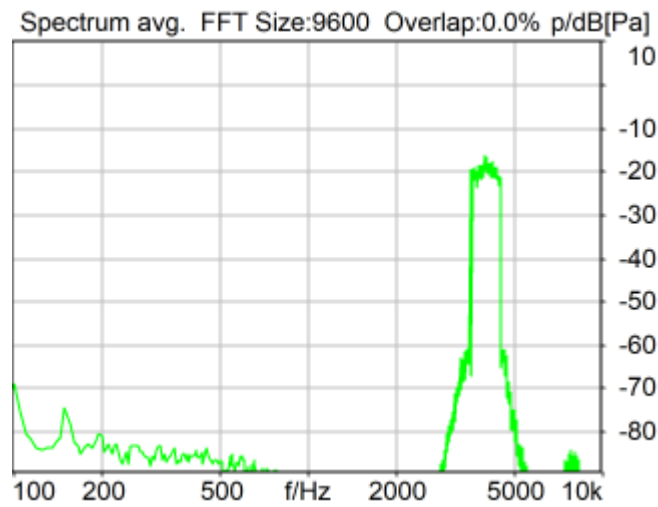
Distortion (Noise) RCV (packed): 34.04 dB (1.99%) Ok

Ok

26/07/01 1:14 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



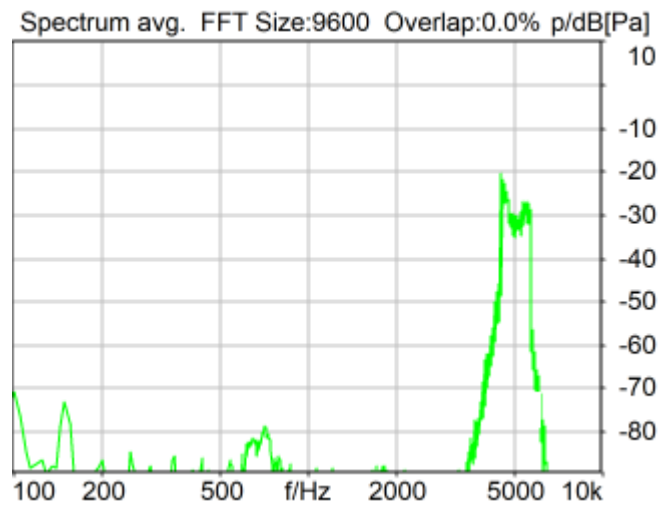
Distortion (Noise) RCV (packed): 45.52 dB (0.53%) Ok

Ok

26/07/01 1:14 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): 30.10 dB (3.13%) Ok

Ok

26/07/01 1:15 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	27.72 dB
2	315Hz	29.51 dB
3	400Hz	33.01 dB
4	500Hz	34.29 dB
5	630Hz	37.43 dB
6	800Hz	37.92 dB
7	1000Hz	44.53 dB
8	1250Hz	32.14 dB
9	1600Hz	39.78 dB
10	2000Hz	42.89 dB
11	2500Hz	41.39 dB
12	3150Hz	34.04 dB
13	4000Hz	45.52 dB
14	5000Hz	30.10 dB

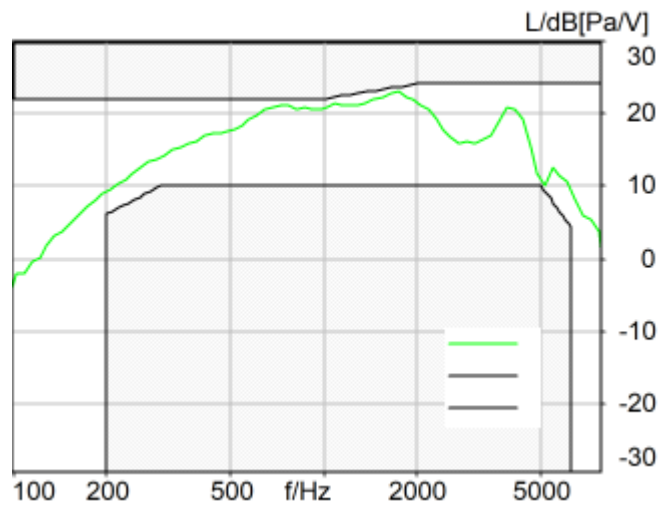
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 27.72dB at 250Hz.

26/07/01 1:15 ACQUA

5.3 Frequency Response 8N FF

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



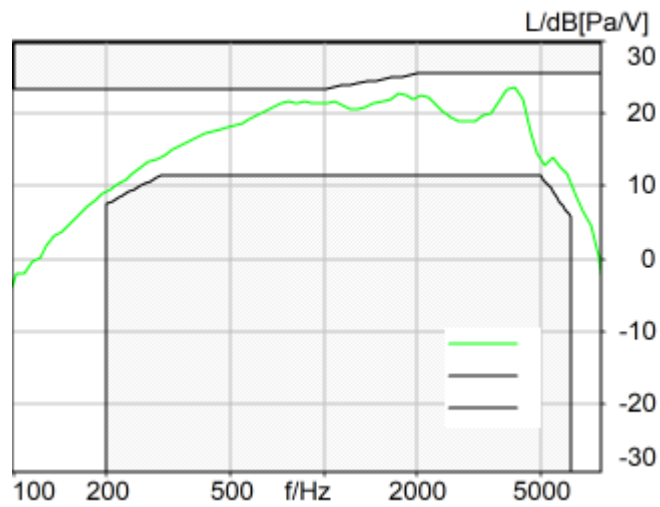
Absolute minimal distance
0.67 dB at 1747.8 Hz Ok

Ok

26/07/01 1:15 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.75 dB at 873.9 Hz Ok

Ok

26/07/01 1:16 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS WB 5.9kbps_Ch6_2N
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Project	#R2620373
Report Generation Date	26/07/01 10:35
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	211.0	WLAN2.4GHz_802.11b 1Mbps_EVS WB 5.9kbps_Ch6_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.91	WLAN2.4GHz_802.11b 1Mbps_EVS WB 5.9kbps_Ch6_2N

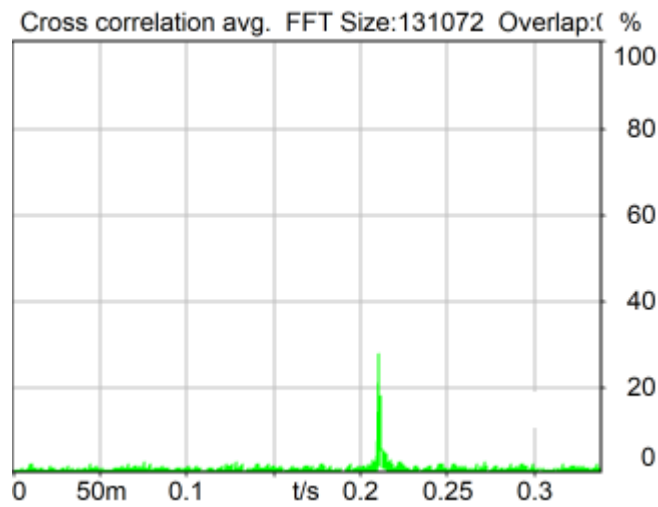
ACQUA Report
9kbps_Ch6_2N

Title: WLAN2.4GHz_802.11b 1Mbps_EVS WB 5.

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

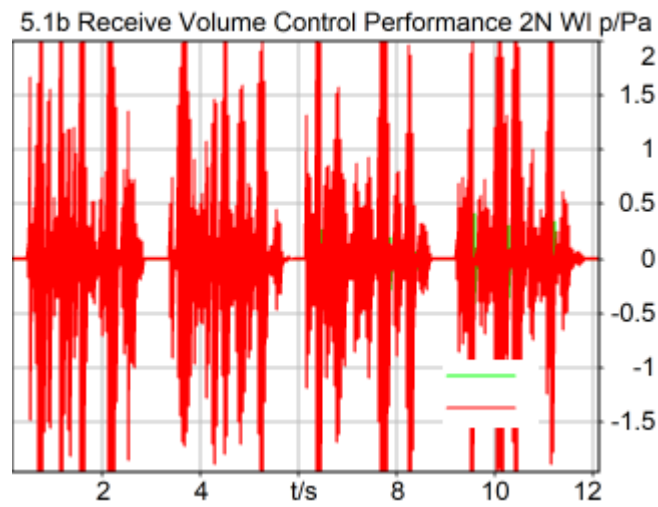


Delay (Cross): 211.0 ms

26/07/01 10:34 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 84.91 dB[SPL], Act.: 83.32% Ok

Ok

26/07/01 10:34 ACQUA 5.1.200