
Measurement Protocol

Measurement Object	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
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Project	461912
Report Generation Date	24/10/05 19:46
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	109.6	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	88.90	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.41	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.91	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.86	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.06	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.85	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.18	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.90	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.75	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	56.96	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.43	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.31	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	51.23	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.45	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.14	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.90	LTE Band

ACQUA Report

Title: LTE Band

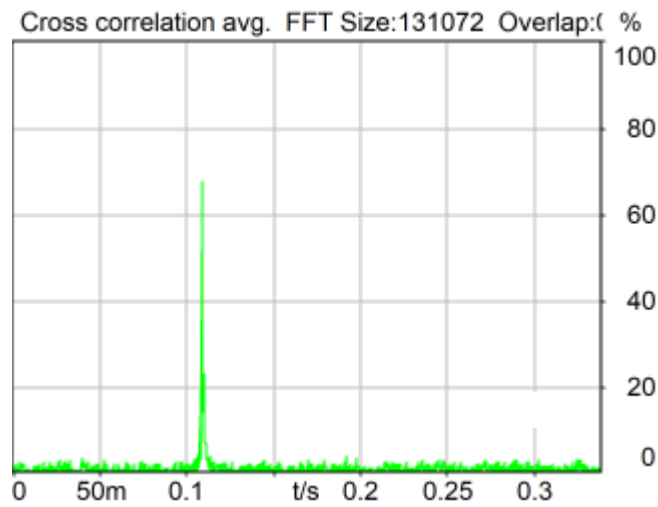
25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N

and Noise (Conversational Gain)		, (occured at 1000Hz)		25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1647.8 Hz	1.97	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	2.09	LTE Band 25_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch26340_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

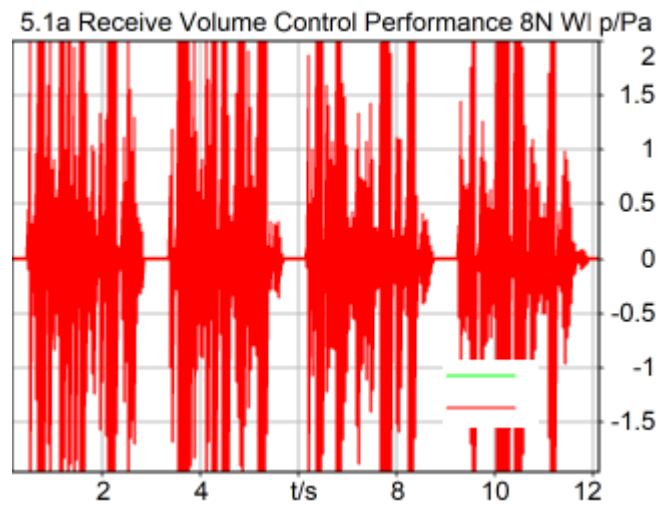


Delay (Cross): 109.6 ms

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5.1a Receive Volume Control Performance 8N WB

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



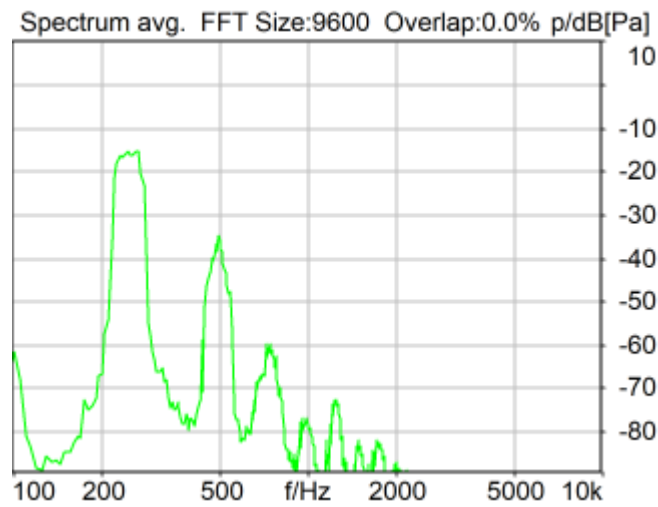
Speech Level RCV: 88.90 dB[SPL], Act.: 80.81% Ok

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



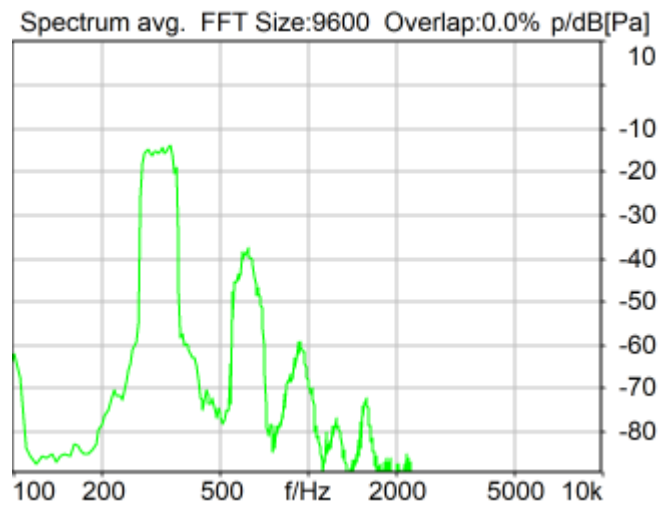
Distortion (Noise) RCV (packed): 24.41 dB (6.02%) Ok

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



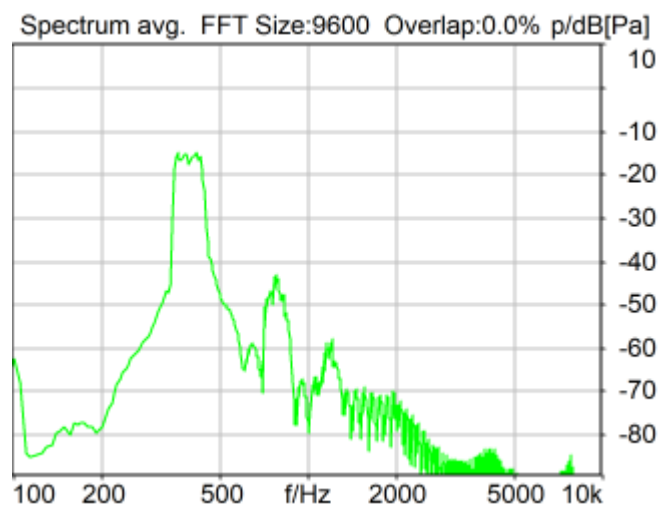
Distortion (Noise) RCV (packed): 25.91 dB (5.07%) Ok

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



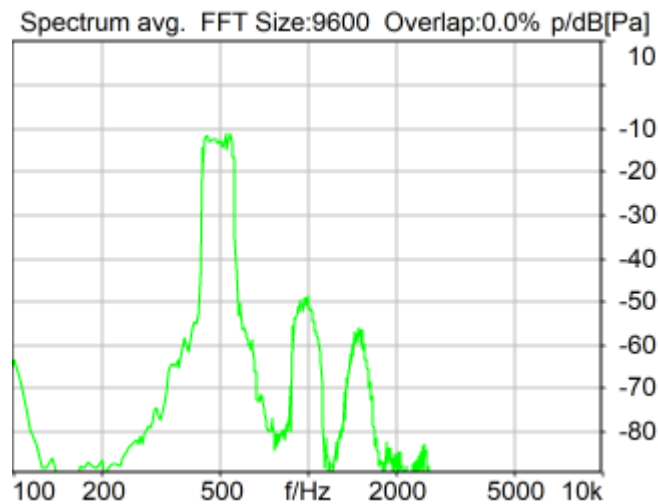
Distortion (Noise) RCV (packed): 28.86 dB (3.60%) Ok

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



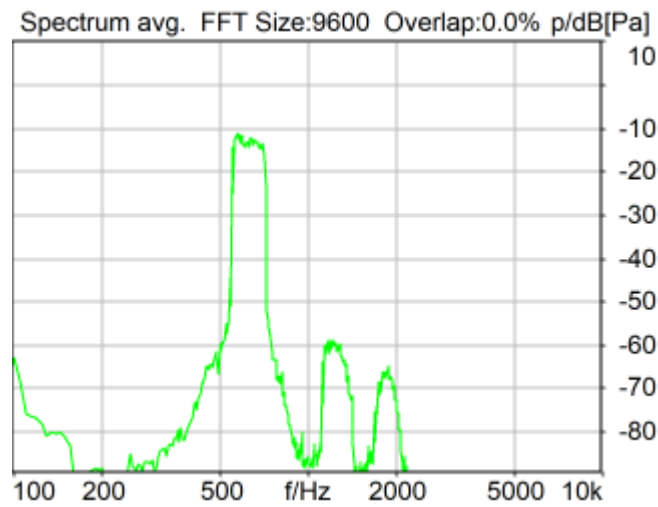
Distortion (Noise) RCV (packed): 36.06 dB (1.57%) Ok

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



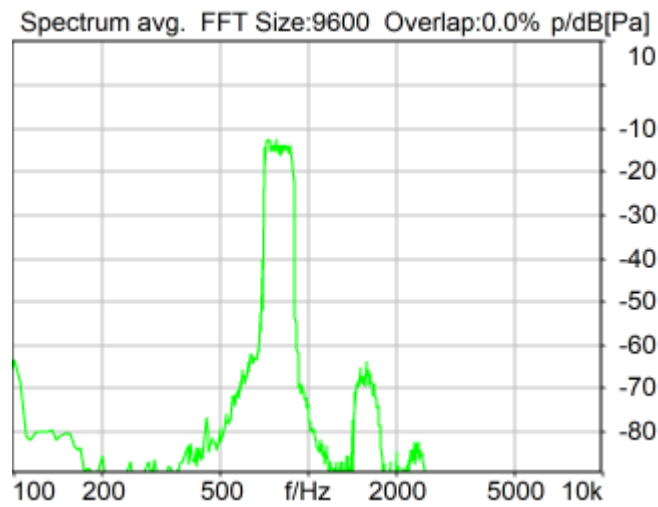
Distortion (Noise) RCV (packed): 43.85 dB (0.64%) Ok

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



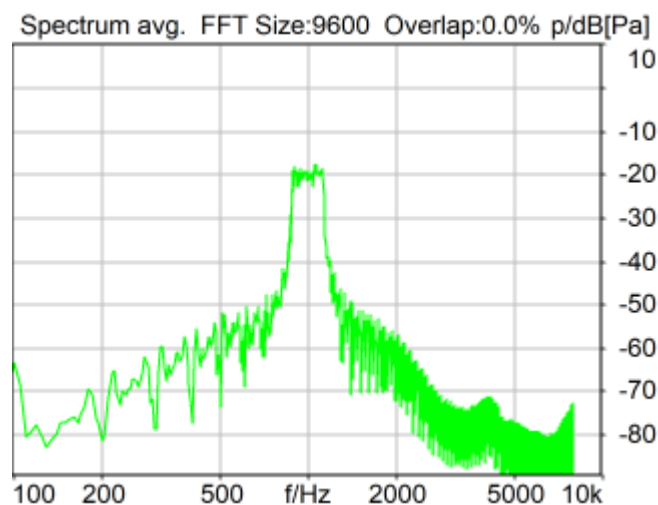
Distortion (Noise) RCV (packed): 49.18 dB (0.35%) Ok

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 8N



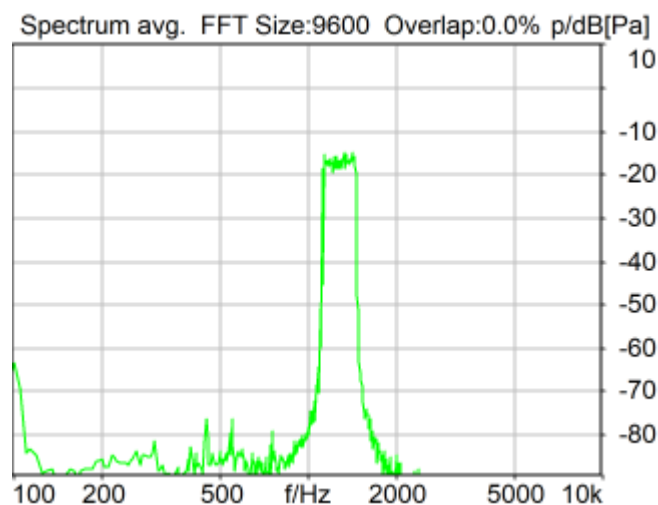
Distortion (Noise) RCV (packed): 23.90 dB (6.38%) Ok

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



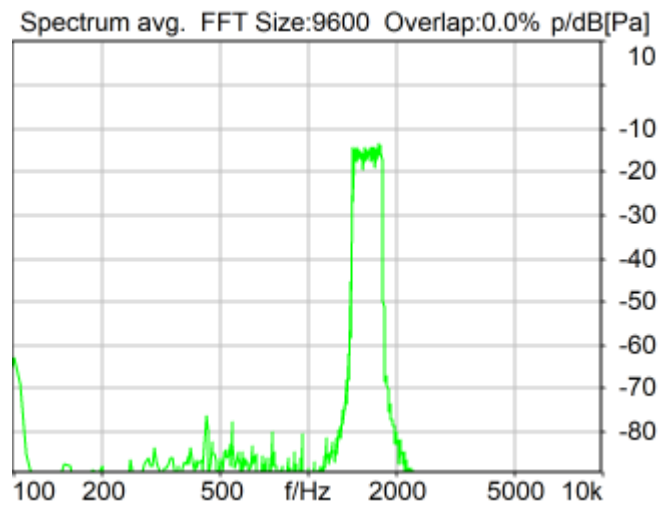
Distortion (Noise) RCV (packed): 33.75 dB (2.05%) Ok

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



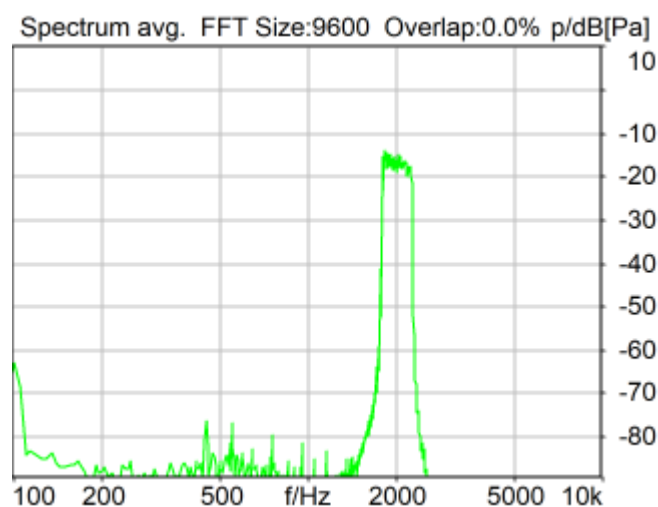
Distortion (Noise) RCV (packed): 56.96 dB (0.14%) Ok

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



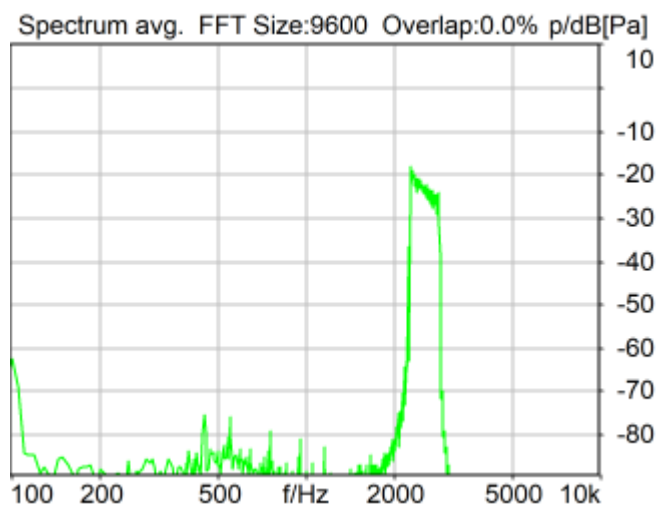
Distortion (Noise) RCV (packed): 52.43 dB (0.24%) Ok

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



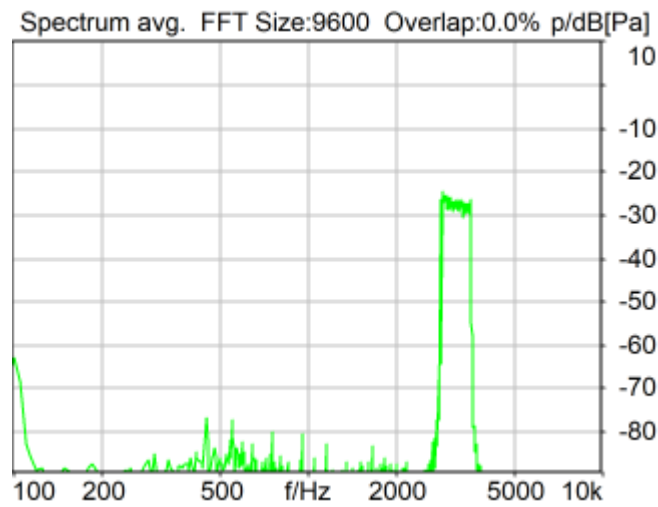
Distortion (Noise) RCV (packed): 49.31 dB (0.34%) Ok

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



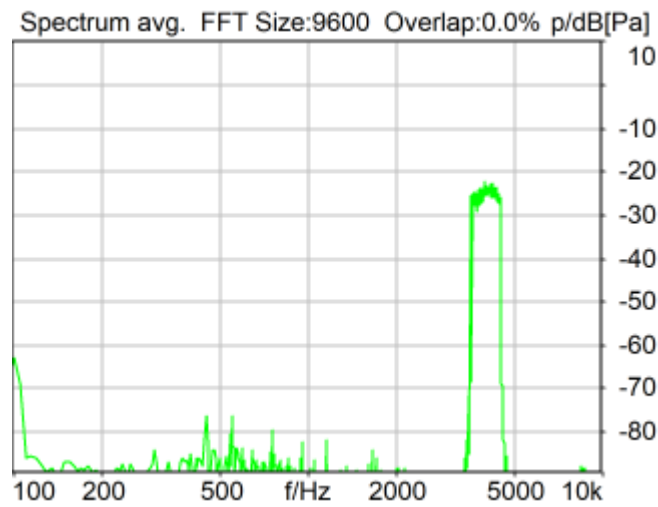
Distortion (Noise) RCV (packed): 51.23 dB (0.27%) Ok

Ok

24/10/05 19:44 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



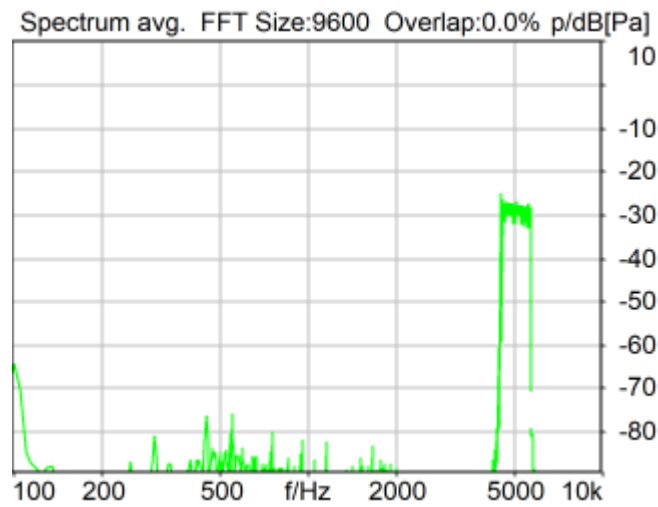
Distortion (Noise) RCV (packed): 54.45 dB (0.19%) Ok

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 8N



Distortion (Noise) RCV (packed): 53.14 dB (0.22%) 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	24.41 dB
2	315Hz	25.91 dB
3	400Hz	28.86 dB
4	500Hz	36.06 dB
5	630Hz	43.85 dB
6	800Hz	49.18 dB
7	1000Hz	23.90 dB
8	1250Hz	33.75 dB
9	1600Hz	56.96 dB
10	2000Hz	52.43 dB
11	2500Hz	49.31 dB
12	3150Hz	51.23 dB
13	4000Hz	54.45 dB
14	5000Hz	53.14 dB

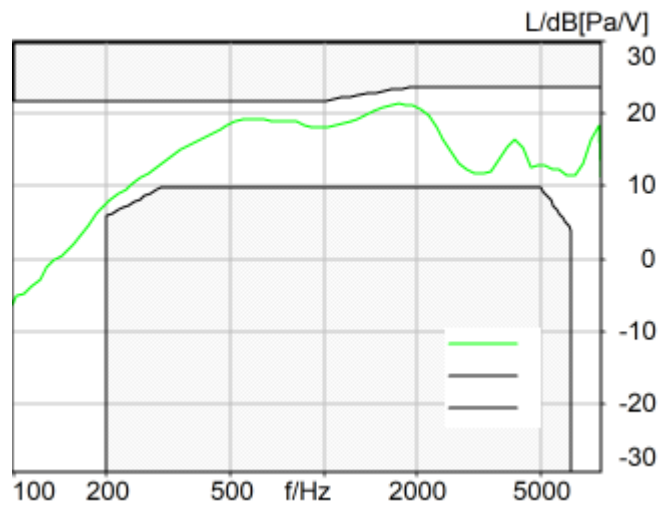
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.90dB at 1000Hz.

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5.3 Frequency Response 8N FF

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



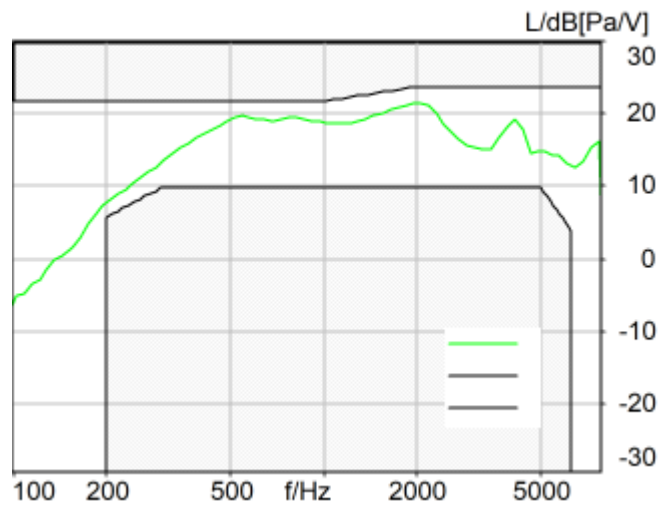
Absolute minimal distance
1.97 dB at 1647.8 Hz Ok

Ok

24/10/05 19:45 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
2.09 dB at 544.4 Hz Ok

Ok

24/10/05 19:46 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
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Project	461912
Report Generation Date	24/10/06 10:08
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	149.0	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.18	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.66	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.09	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.97	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.80	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.50	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.64	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.99	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.36	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.43	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.05	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.52	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.24	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.58	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.57	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	23.66	LTE Band

ACQUA Report

Title: LTE Band

30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N

and Noise (Conversational Gain)		, (occured at 250Hz)		30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 7764.8 Hz	1.32	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 514.4 Hz	1.69	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N

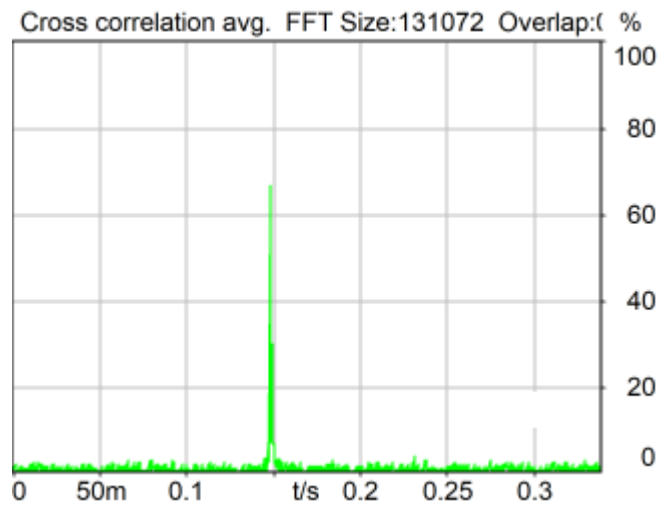
ACQUA Report
30_10M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch27710_2N

Title: LTE Band

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

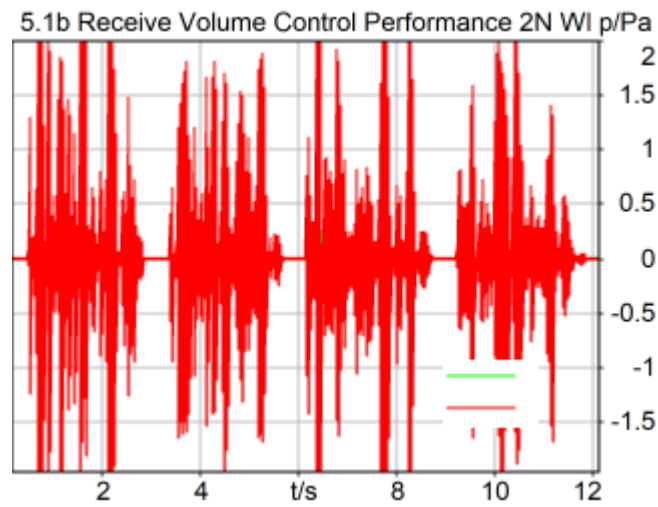


Delay (Cross): 149.0 ms

24/10/06 9:59 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



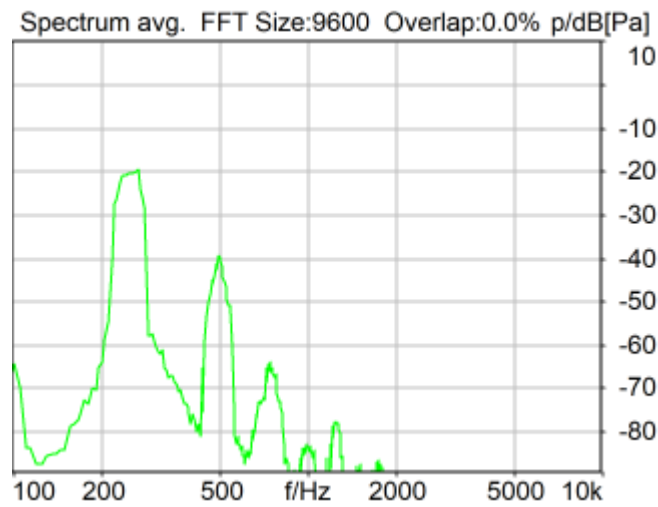
Speech Level RCV: 84.18 dB[SPL], Act.: 81.68% Ok

Ok

24/10/06 10:00 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



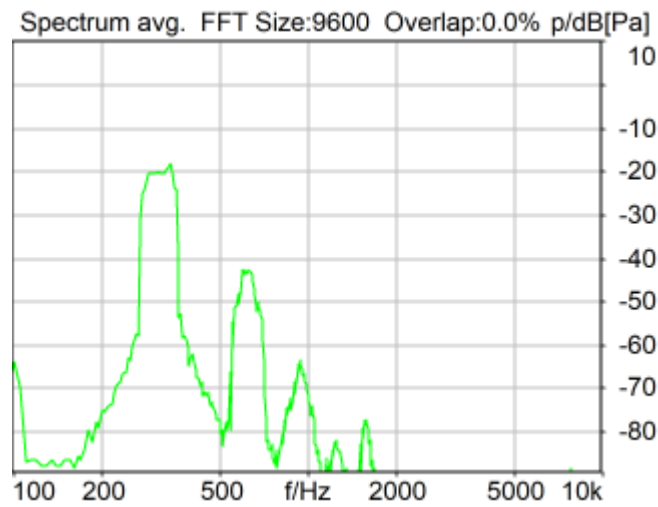
Distortion (Noise) RCV (packed): 23.66 dB (6.56%) Ok

Ok

24/10/06 10:00 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



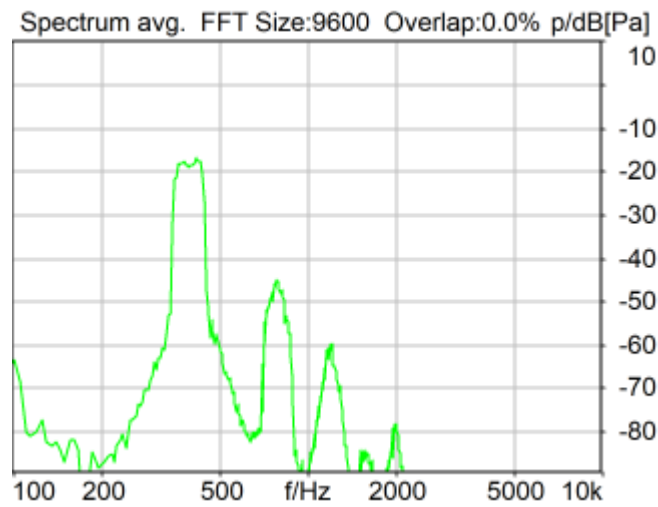
Distortion (Noise) RCV (packed): 25.09 dB (5.57%) Ok

Ok

24/10/06 10:01 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



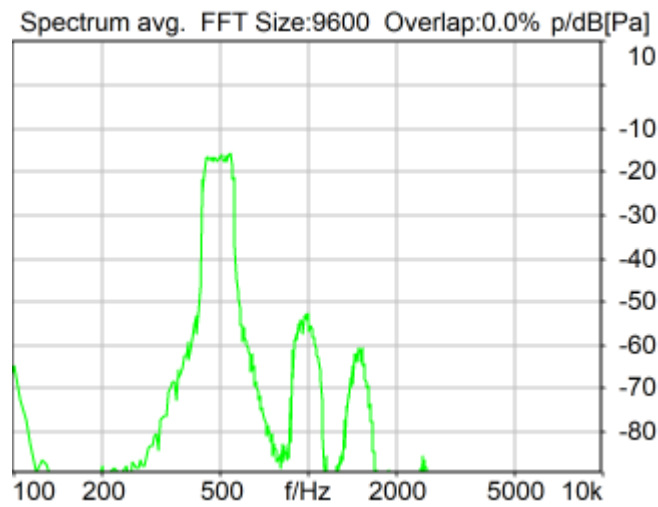
Distortion (Noise) RCV (packed): 28.97 dB (3.56%) Ok

Ok

24/10/06 10:01 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 2N



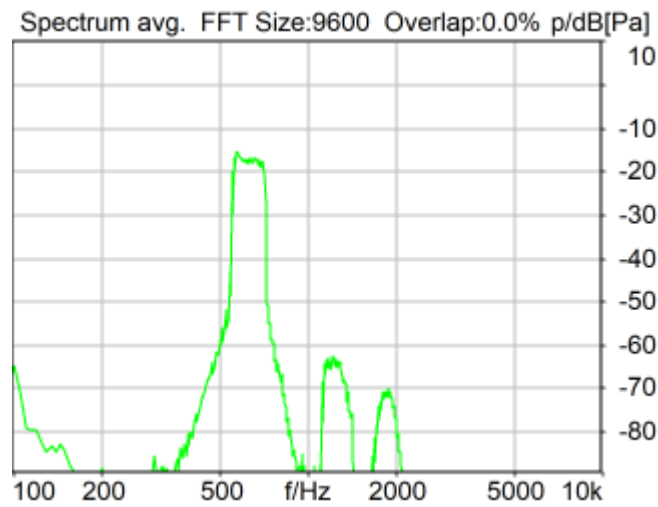
Distortion (Noise) RCV (packed): 35.80 dB (1.62%) Ok

Ok

24/10/06 10:02 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



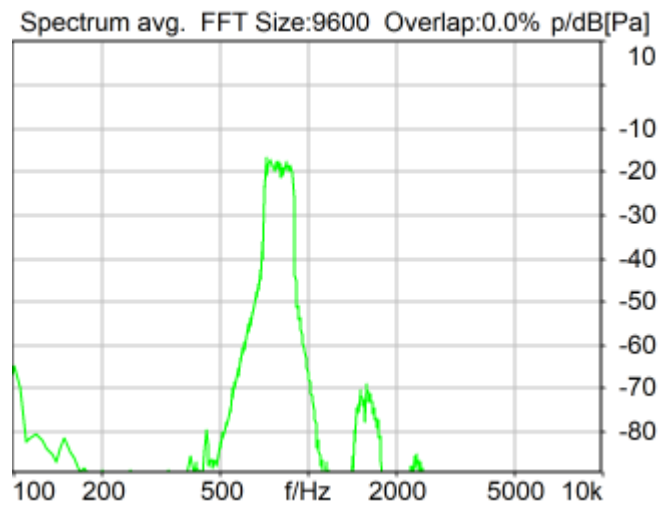
Distortion (Noise) RCV (packed): 42.50 dB (0.75%) Ok

Ok

24/10/06 10:02 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



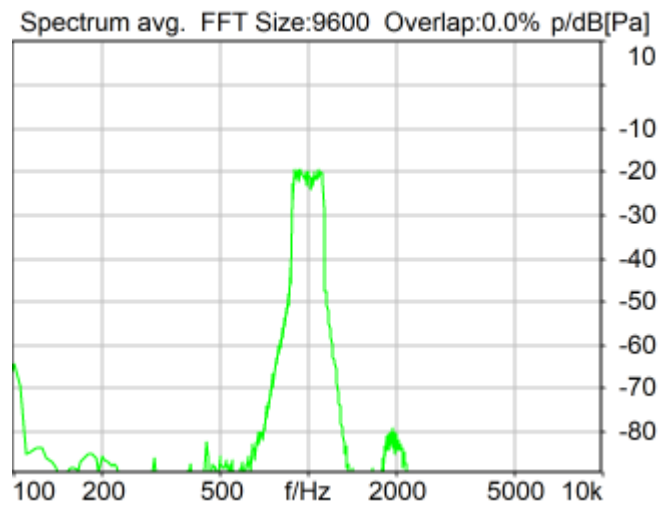
Distortion (Noise) RCV (packed): 38.64 dB (1.17%) Ok

Ok

24/10/06 10:02 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



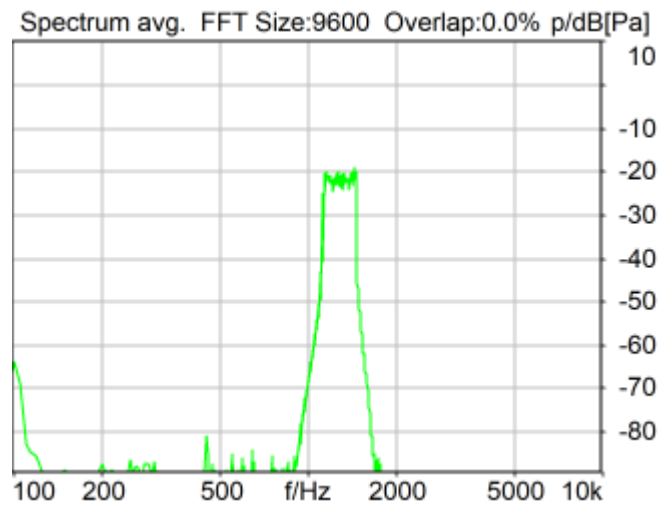
Distortion (Noise) RCV (packed): 37.99 dB (1.26%) Ok

Ok

24/10/06 10:03 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



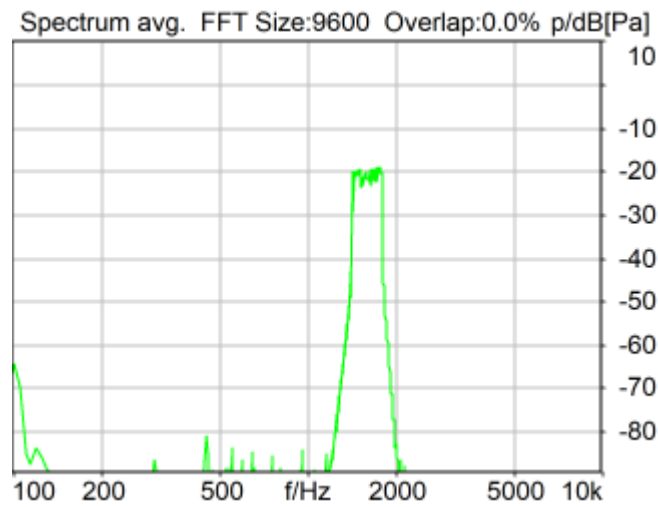
Distortion (Noise) RCV (packed): 28.36 dB (3.82%) Ok

Ok

24/10/06 10:03 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



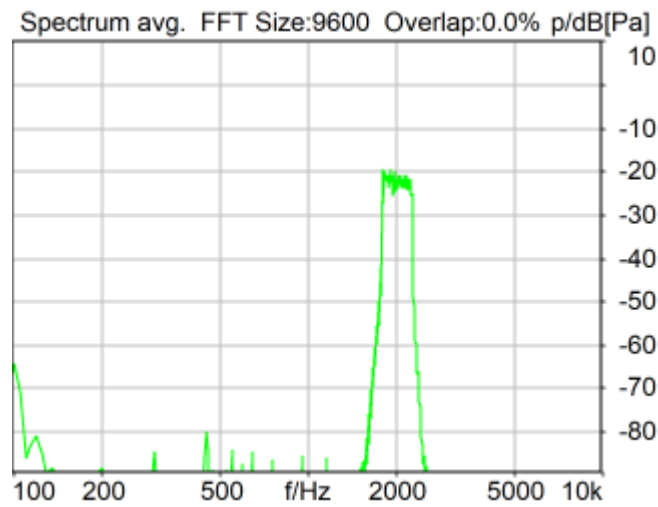
Distortion (Noise) RCV (packed): 40.43 dB (0.95%) Ok

Ok

24/10/06 10:04 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



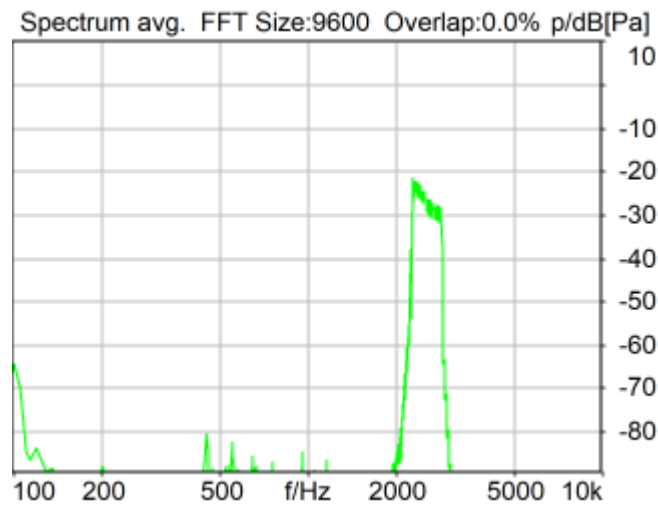
Distortion (Noise) RCV (packed): 39.05 dB (1.12%) Ok

Ok

24/10/06 10:04 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



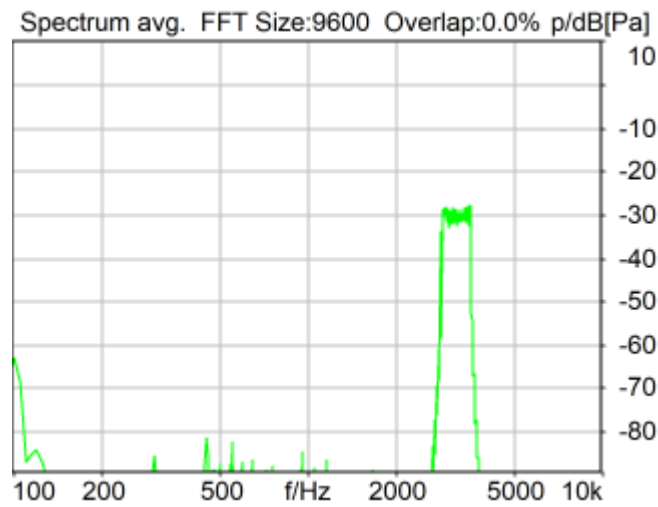
Distortion (Noise) RCV (packed): 40.52 dB (0.94%) Ok

Ok

24/10/06 10:05 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



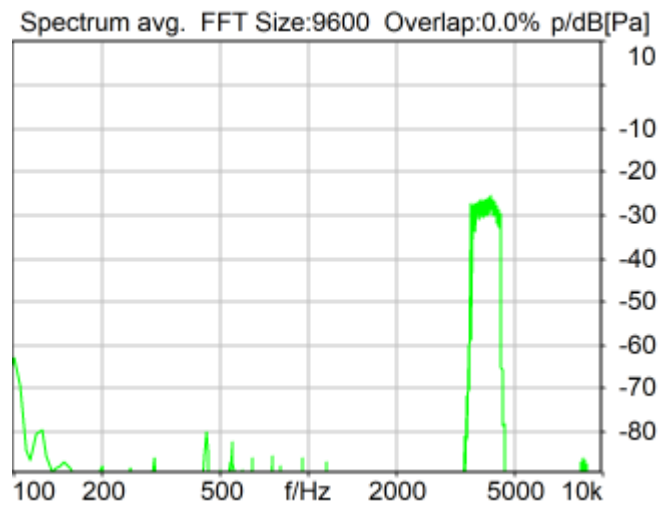
Distortion (Noise) RCV (packed): 41.24 dB (0.87%) Ok

Ok

24/10/06 10:05 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



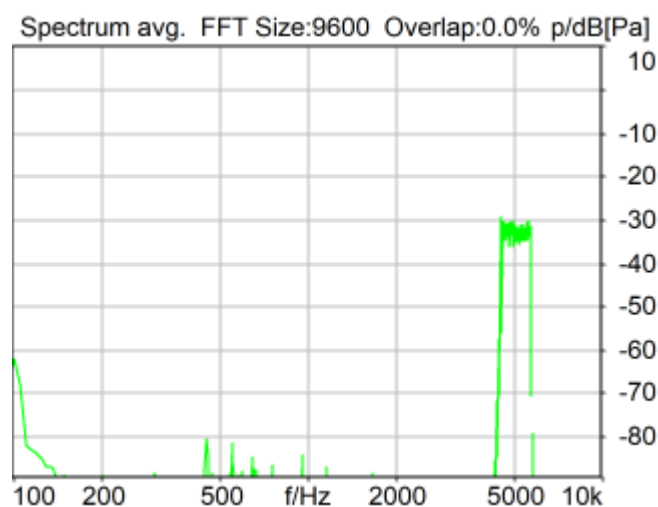
Distortion (Noise) RCV (packed): 45.58 dB (0.53%) Ok

Ok

24/10/06 10:06 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): 43.57 dB (0.66%) Ok

Ok

24/10/06 10:06 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	23.66 dB
2	315Hz	25.09 dB
3	400Hz	28.97 dB
4	500Hz	35.80 dB
5	630Hz	42.50 dB
6	800Hz	38.64 dB
7	1000Hz	37.99 dB
8	1250Hz	28.36 dB
9	1600Hz	40.43 dB
10	2000Hz	39.05 dB
11	2500Hz	40.52 dB
12	3150Hz	41.24 dB
13	4000Hz	45.58 dB
14	5000Hz	43.57 dB

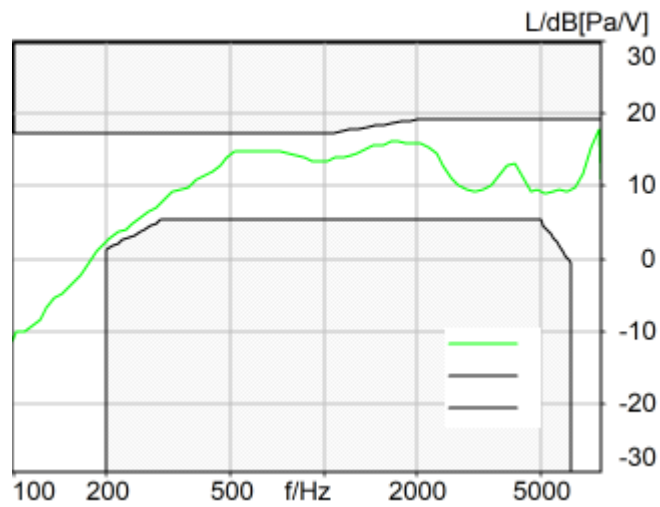
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.66dB at 250Hz.

24/10/06 10:06 ACQUA

5.3 Frequency Response 2N FF

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



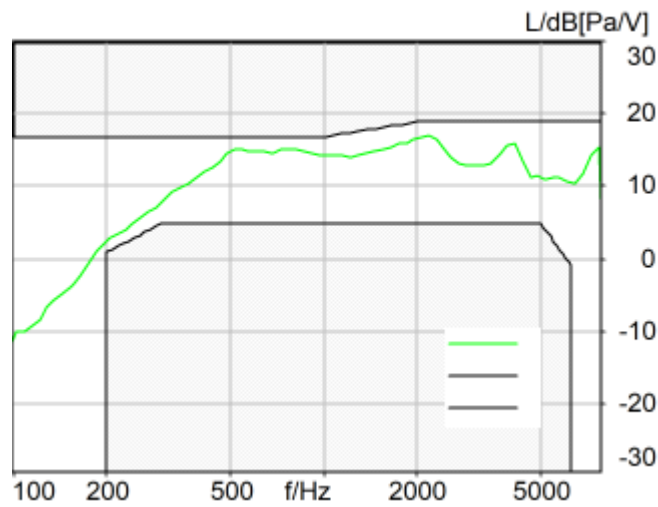
Absolute minimal distance
1.32 dB at 7764.8 Hz Ok

Ok

24/10/06 10:06 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.69 dB at 514.4 Hz Ok

Ok

24/10/06 10:07 ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
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Project	461912
Report Generation Date	24/10/08 11:26
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	267.4	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.69	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.06	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.85	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.69	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.93	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.74	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	48.65	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.05	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.84	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.69	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	54.57	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	51.21	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N

ACQUA Report
WB 128kbps_Ch376500_2N

Title: FR1 n25_40M_QPSK_1RB_1Offset_EVS

				EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	49.12	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.36	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	47.94	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 250Hz)	23.06	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 7764.8 Hz	1.19	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	1.64	FR1 n25_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch376500_2N

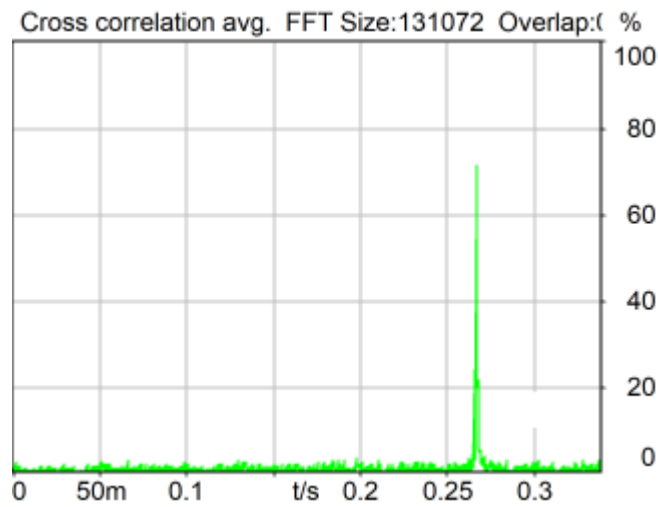
ACQUA Report
WB 128kbps_Ch376500_2N

Title: FR1 n25_40M_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

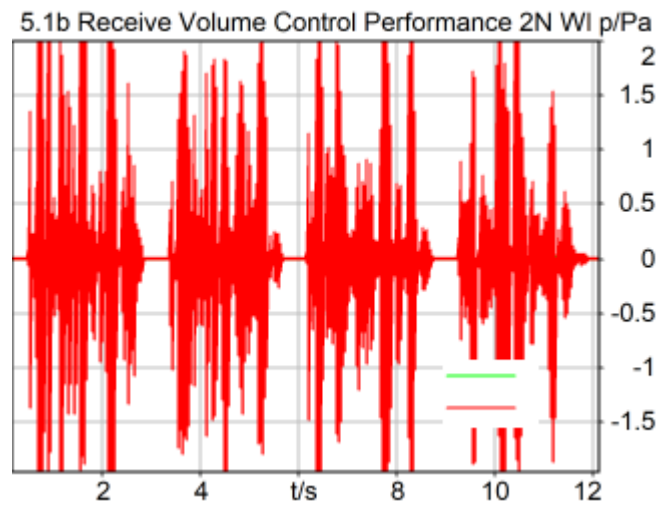


Delay (Cross): 267.4 ms

24/10/08 11:18 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



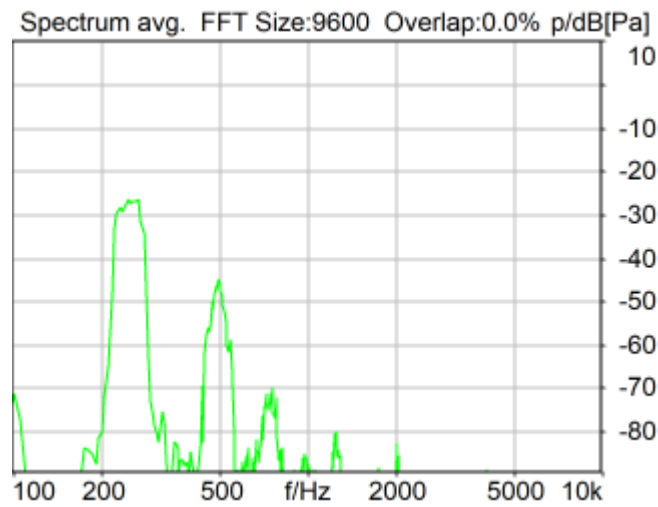
Speech Level RCV: 84.69 dB[SPL], Act.: 83.00% Ok

Ok

24/10/08 11:18 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



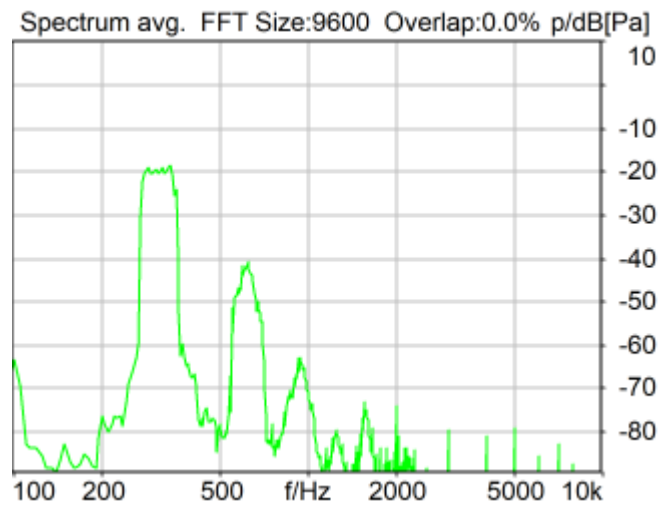
Distortion (Noise) RCV (packed): 23.06 dB (7.03%) Ok

Ok

24/10/08 11:19 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



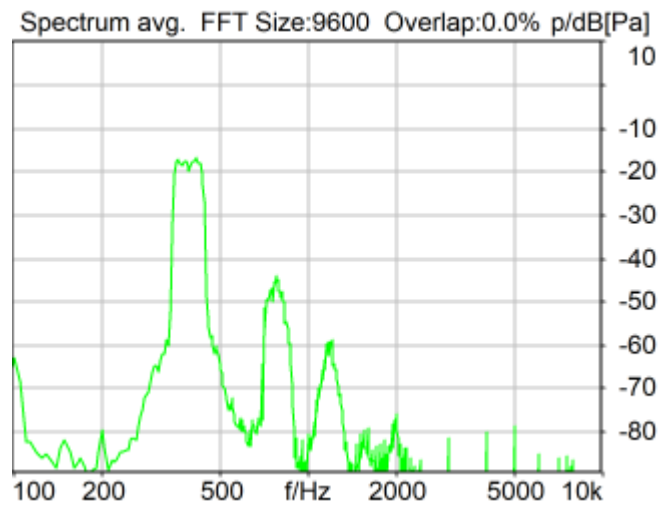
Distortion (Noise) RCV (packed): 24.85 dB (5.72%) Ok

Ok

24/10/08 11:19 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



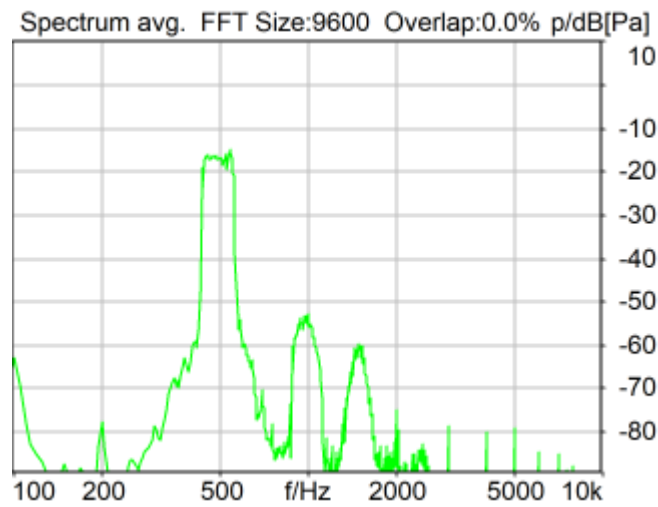
Distortion (Noise) RCV (packed): 28.69 dB (3.68%) Ok

Ok

24/10/08 11:20 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



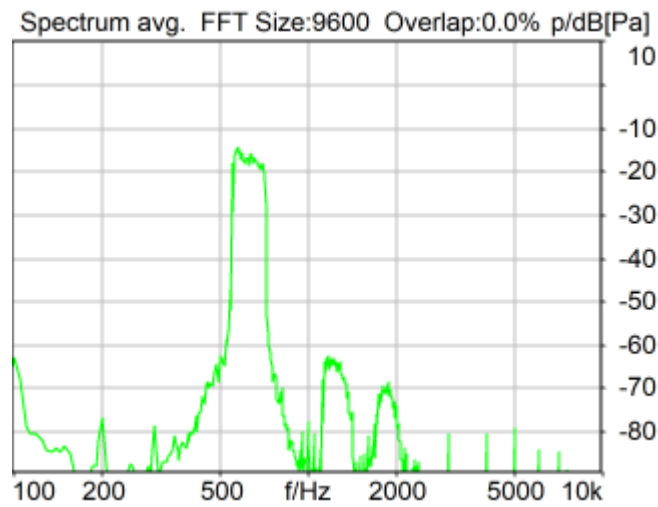
Distortion (Noise) RCV (packed): 35.93 dB (1.60%) Ok

Ok

24/10/08 11:20 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



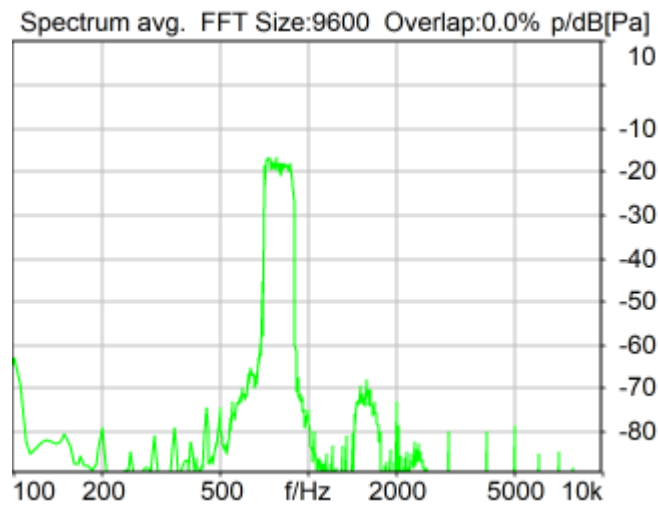
Distortion (Noise) RCV (packed): 43.74 dB (0.65%) Ok

Ok

24/10/08 11:21 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



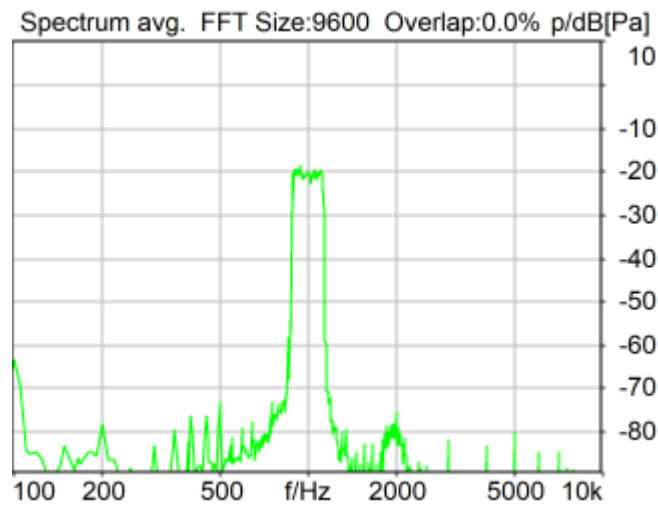
Distortion (Noise) RCV (packed): 48.65 dB (0.37%) Ok

Ok

24/10/08 11:21 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



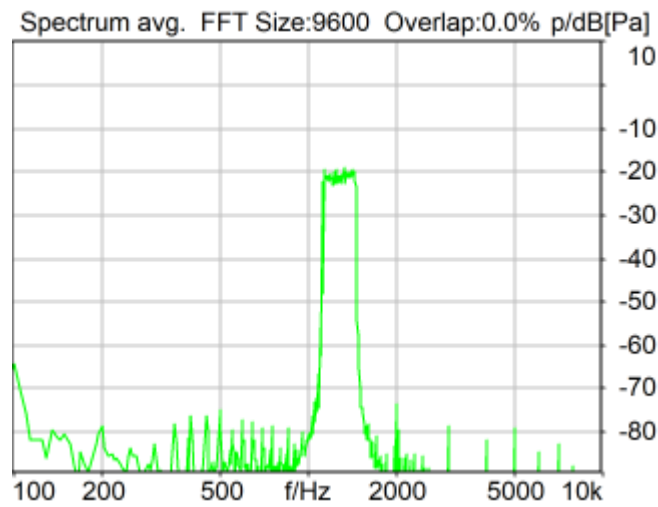
Distortion (Noise) RCV (packed): 52.05 dB (0.25%) Ok

Ok

24/10/08 11:22 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



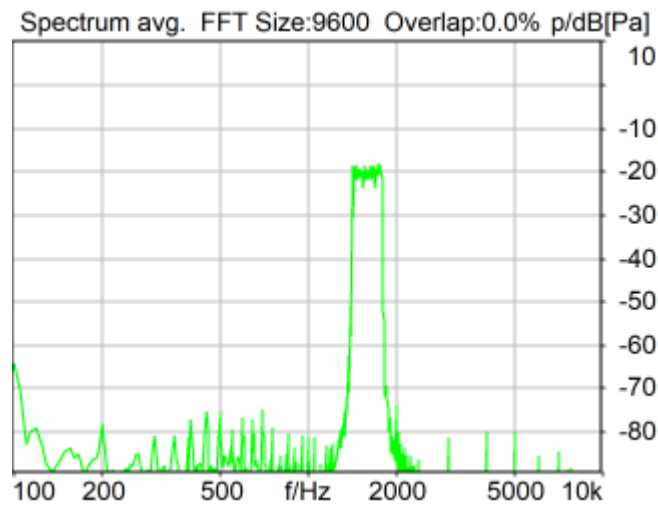
Distortion (Noise) RCV (packed): 33.84 dB (2.03%) Ok

Ok

24/10/08 11:22 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



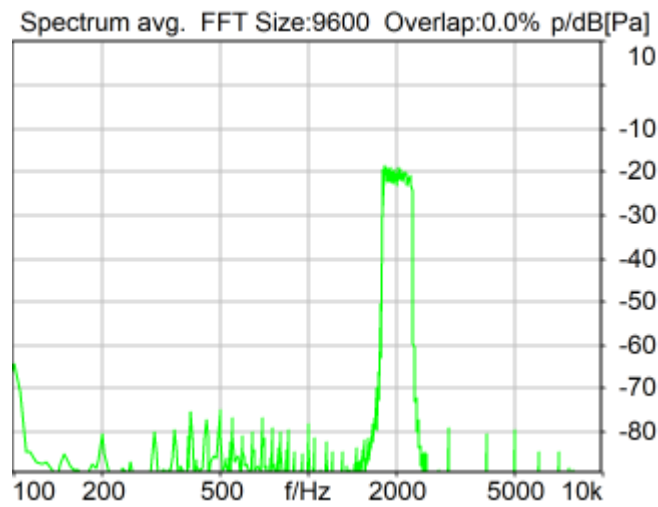
Distortion (Noise) RCV (packed): 54.69 dB (0.18%) Ok

Ok

24/10/08 11:23 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



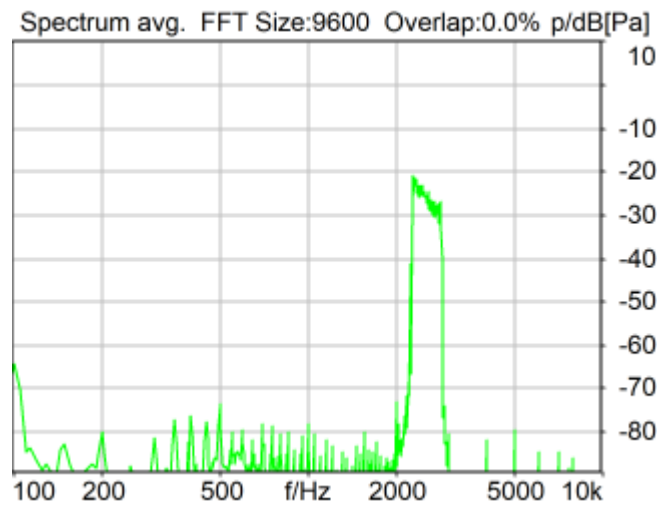
Distortion (Noise) RCV (packed): 54.57 dB (0.19%) Ok

Ok

24/10/08 11:23 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



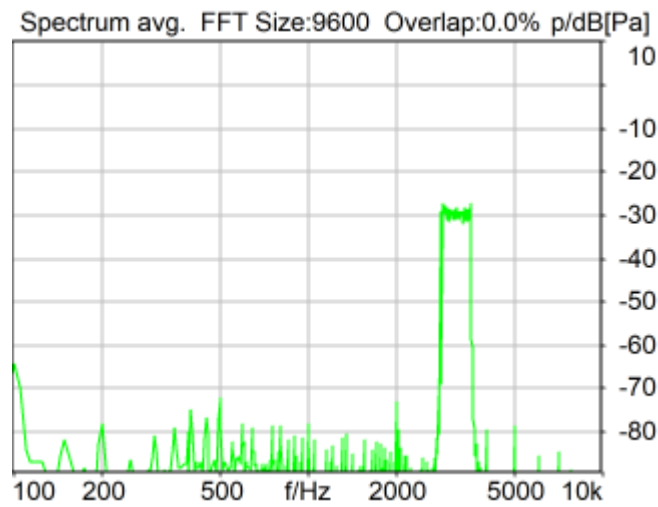
Distortion (Noise) RCV (packed): 51.21 dB (0.28%) Ok

Ok

24/10/08 11:23 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



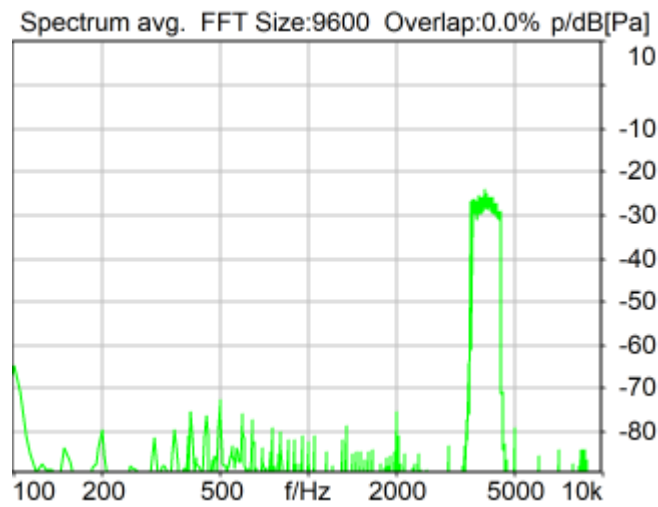
Distortion (Noise) RCV (packed): 49.12 dB (0.35%) Ok

Ok

24/10/08 11:24 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



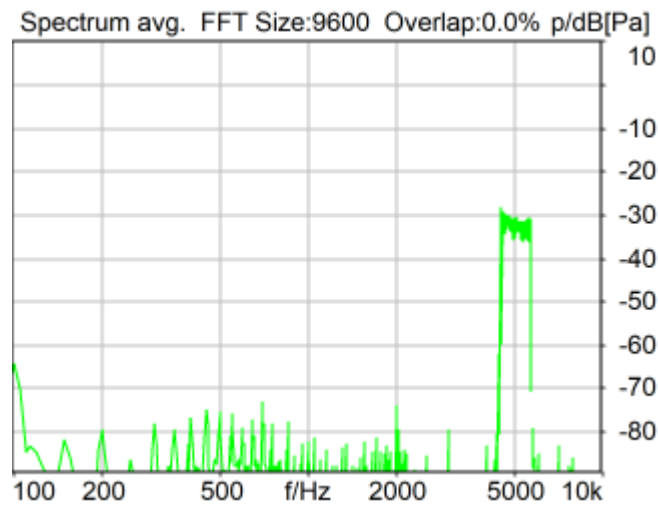
Distortion (Noise) RCV (packed): 50.36 dB (0.30%) Ok

Ok

24/10/08 11:24 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): 47.94 dB (0.40%) Ok

Ok

24/10/08 11:25 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	23.06 dB
2	315Hz	24.85 dB
3	400Hz	28.69 dB
4	500Hz	35.93 dB
5	630Hz	43.74 dB
6	800Hz	48.65 dB
7	1000Hz	52.05 dB
8	1250Hz	33.84 dB
9	1600Hz	54.69 dB
10	2000Hz	54.57 dB
11	2500Hz	51.21 dB
12	3150Hz	49.12 dB
13	4000Hz	50.36 dB
14	5000Hz	47.94 dB

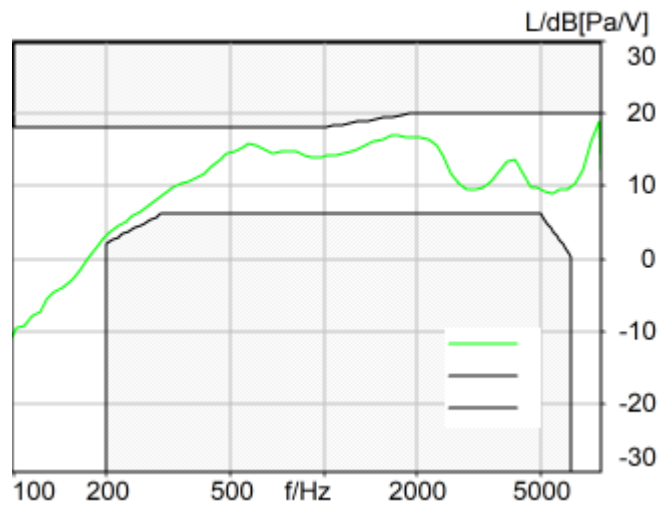
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.06dB at 250Hz.

24/10/08 11:25 ACQUA

5.3 Frequency Response 2N FF

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



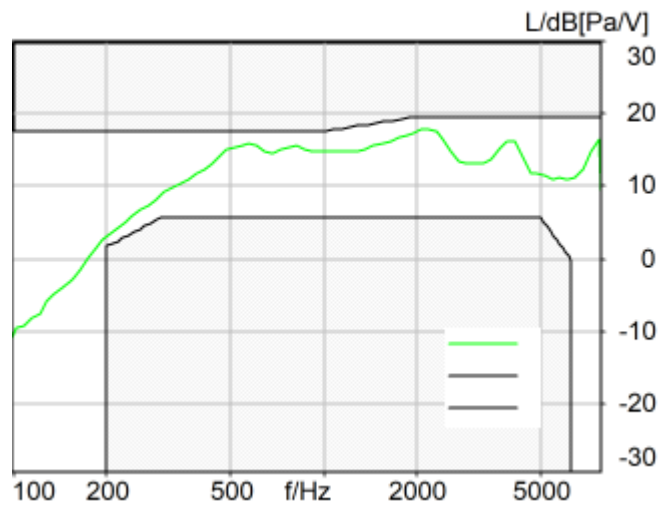
Absolute minimal distance
1.19 dB at 7764.8 Hz Ok

Ok

24/10/08 11:25 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.64 dB at 576.7 Hz Ok

Ok

24/10/08 11:26 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps_Ch6_8N
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Project	461912
Report Generation Date	24/10/11 10:09
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	118.6	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.16	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.70	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.53	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.60	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.90	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.40	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.59	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.56	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.73	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.24	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.00	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	24.59	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	0.13	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2057.5 Hz	0.27	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N

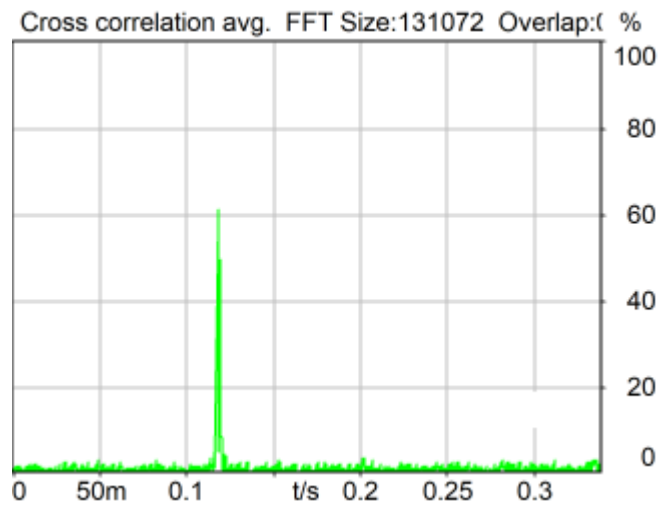
ACQUA Report
4kbps_Ch6_8N

Title: WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.

Overall Receive Delay NB	5
5.1a Receive Volume Control Performance 8N NB	6
5.2 RCV Distortion and Noise - 400 Hz NB	7
5.2 RCV Distortion and Noise - 500 Hz NB	8
5.2 RCV Distortion and Noise - 630 Hz NB	9
5.2 RCV Distortion and Noise - 800 Hz NB	10
5.2 RCV Distortion and Noise - 1000 Hz NB	11
5.2 RCV Distortion and Noise - 1250 Hz NB	12
5.2 RCV Distortion and Noise - 1600 Hz NB	13
5.2 RCV Distortion and Noise - 2000 Hz NB	14
5.2 RCV Distortion and Noise - 2500 Hz NB	15
5.2 RCV Distortion and Noise - 3150 Hz NB	16
Report - Receive Distortion and Noise (Conversational Gain)	17
5.3 Frequency Response 8N FF HANB	18
5.3 Frequency Response 8N DF HANB	19

Overall Receive Delay NB

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

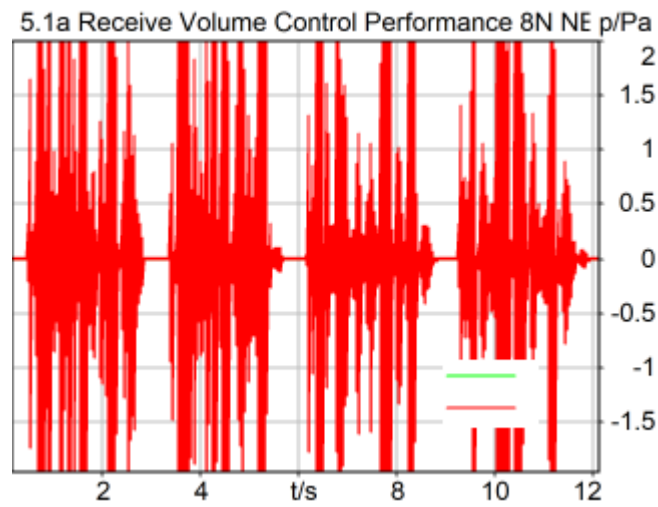


Delay (Cross): 118.6 ms

24/10/11 10:02 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



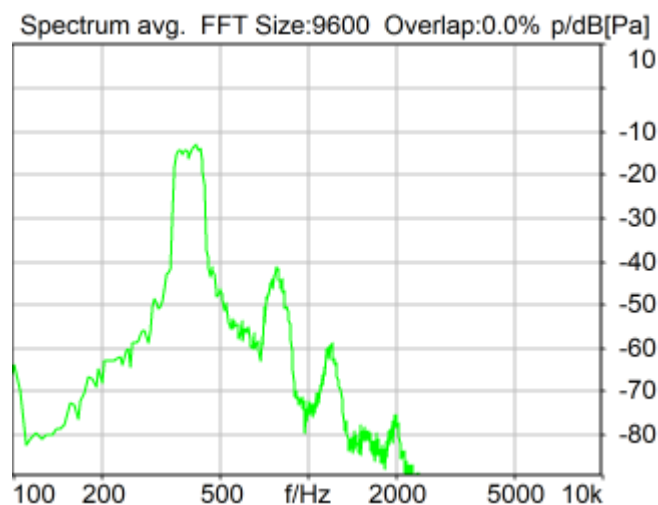
Speech Level RCV: 89.16 dB[SPL], Act.: 79.74% Ok

Ok

24/10/11 10:03 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



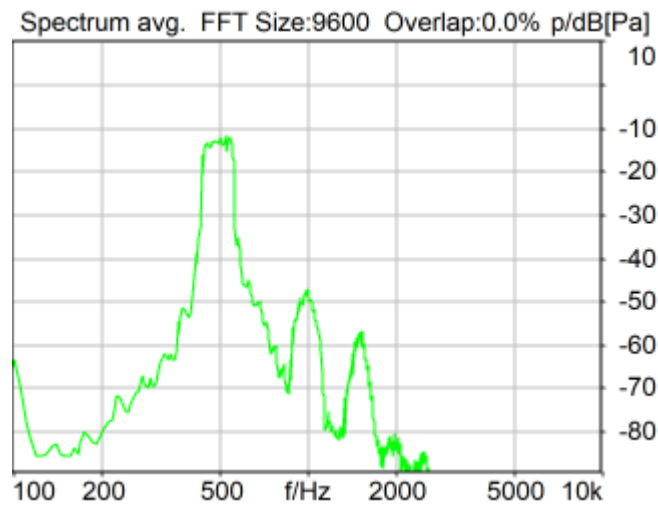
Distortion (Noise) RCV (packed): 28.70 dB (3.67%) Ok

Ok

24/10/11 10:03 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz NB

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



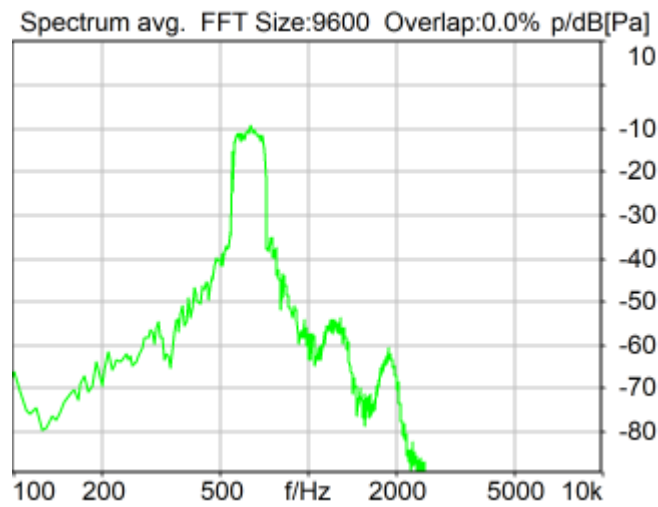
Distortion (Noise) RCV (packed): 32.53 dB (2.36%) Ok

Ok

24/10/11 10:04 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



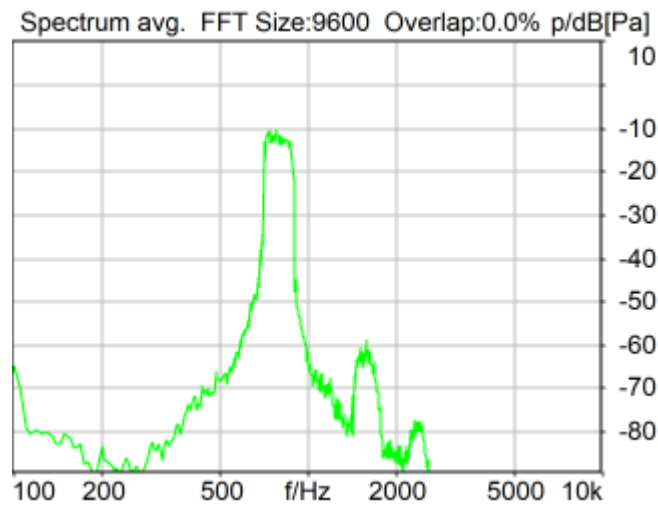
Distortion (Noise) RCV (packed): 30.60 dB (2.95%) Ok

Ok

24/10/11 10:04 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz NB

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



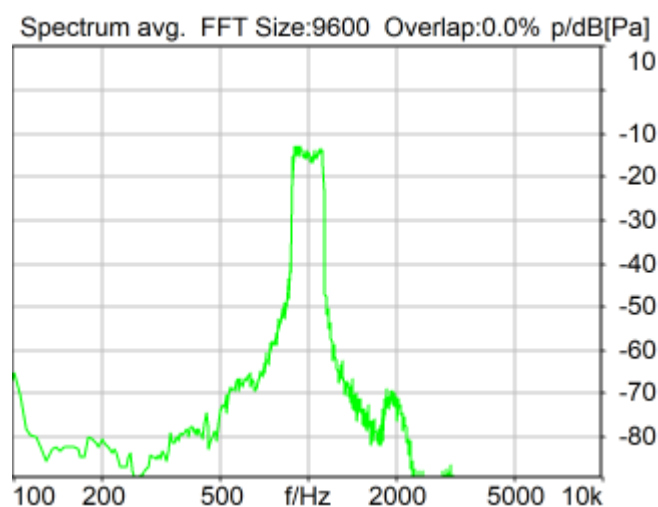
Distortion (Noise) RCV (packed): 41.90 dB (0.80%) Ok

Ok

24/10/11 10:05 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz NB

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



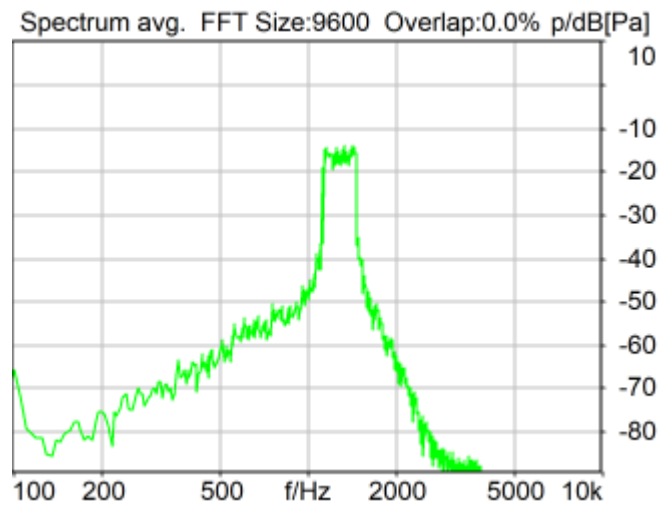
Distortion (Noise) RCV (packed): 40.40 dB (0.95%) Ok

Ok

24/10/11 10:05 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz NB

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



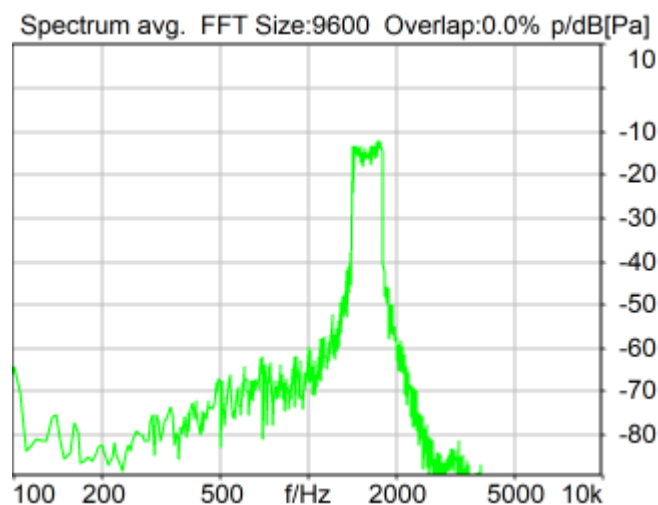
Distortion (Noise) RCV (packed): 24.59 dB (5.90%) Ok

Ok

24/10/11 10:05 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz NB

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



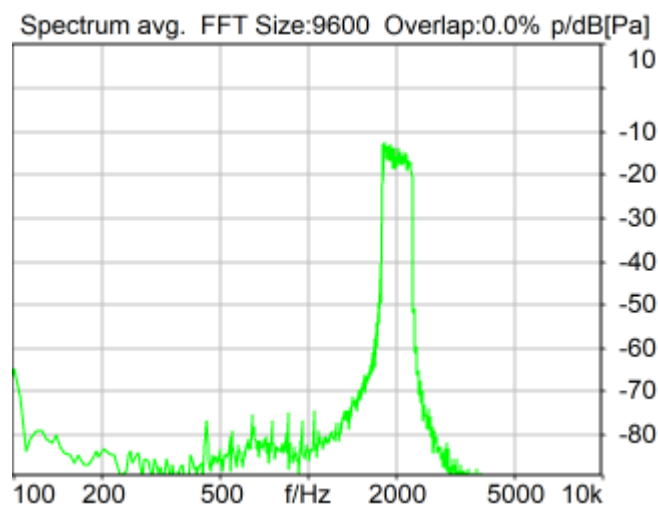
Distortion (Noise) RCV (packed): 34.56 dB (1.87%) Ok

Ok

24/10/11 10:06 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz NB

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



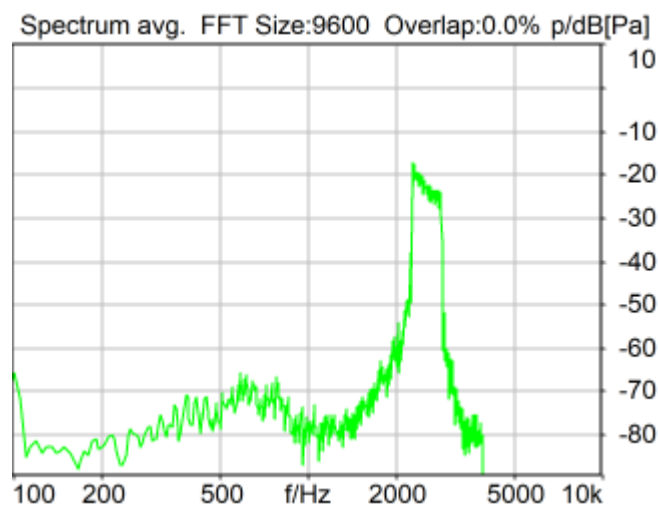
Distortion (Noise) RCV (packed): 44.73 dB (0.58%) Ok

Ok

24/10/11 10:06 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz NB

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



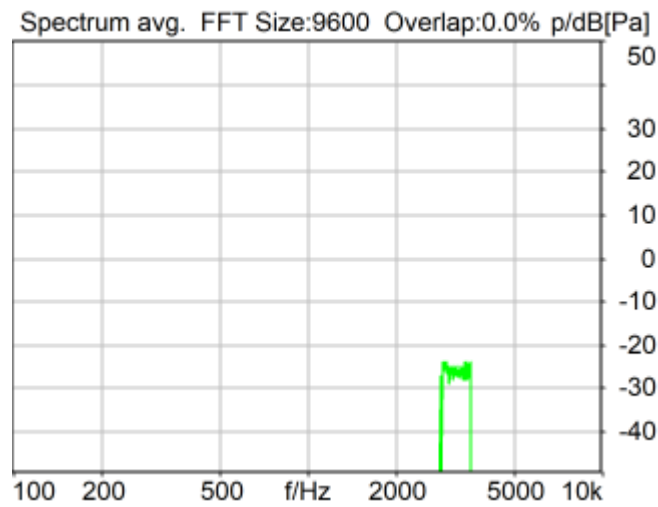
Distortion (Noise) RCV (packed): 33.24 dB (2.18%) Ok

Ok

24/10/11 10:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 43.00 dB (0.71%) Ok

Ok

24/10/11 10:07 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	400Hz	28.70 dB
2	500Hz	32.53 dB
3	630Hz	30.60 dB
4	800Hz	41.90 dB
5	1000Hz	40.40 dB
6	1250Hz	24.59 dB
7	1600Hz	34.56 dB
8	2000Hz	44.73 dB
9	2500Hz	33.24 dB
10	3150Hz	43.00 dB

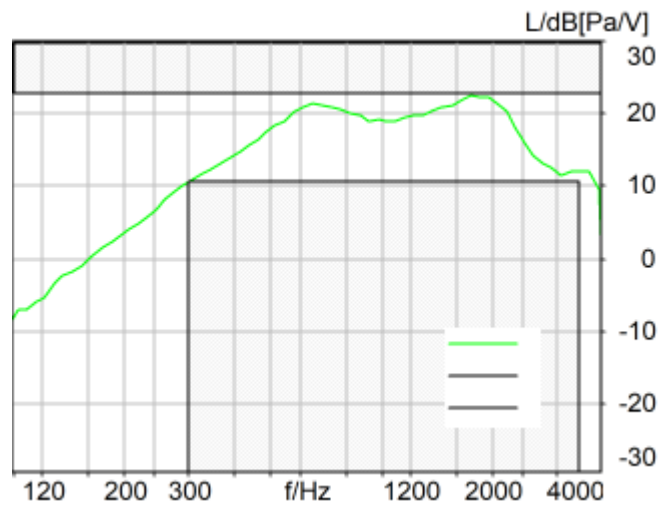
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 24.59dB at 1250Hz.

24/10/11 10:07 ACQUA

5.3 Frequency Response 8N FF HANB

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



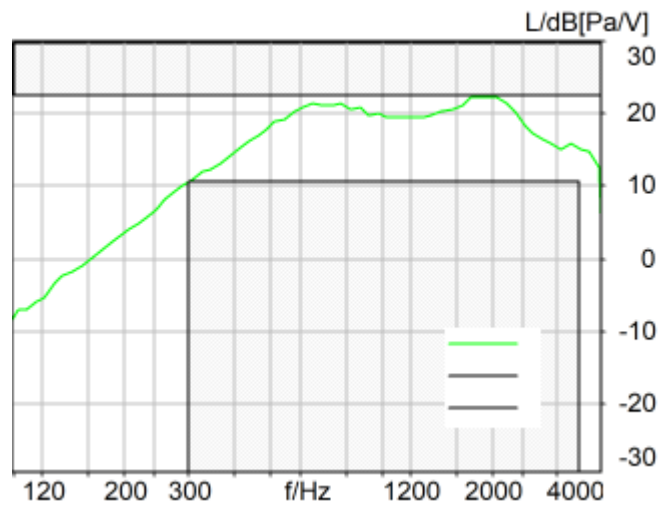
Absolute minimal distance
0.13 dB at 305.9 Hz Ok

Ok

24/10/11 10:08 ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
0.27 dB at 2057.5 Hz Ok

Ok

24/10/11 10:08 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA V_Voice_AMR WB 6.60kbps_Ch4182_2N
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Project	461912
Report Generation Date	24/10/06 19:30
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	181.3	WCDMA V_Voice_AMR WB 6. 60kbps_Ch4182_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	83.68	WCDMA V_Voice_AMR WB 6. 60kbps_Ch4182_2N

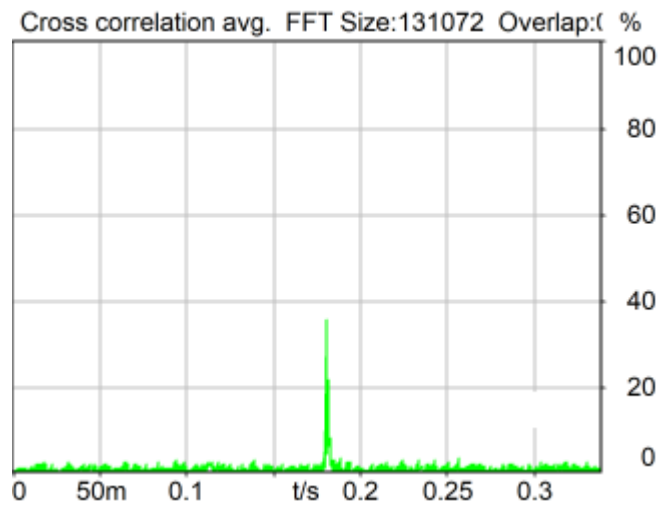
ACQUA Report
60kbps_Ch4182_2N

Title: WCDMA V_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

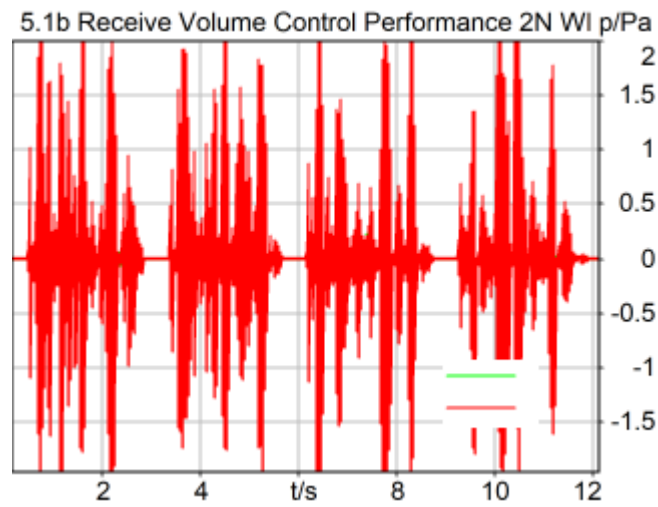


Delay (Cross): 181.3 ms

24/10/06 19:30 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 83.68 dB[SPL], Act.: 79.87% Ok

Ok

24/10/06 19:30 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA V_Voice_AMR WB 6.60kbps_Ch4182_8N
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Project	461912
Report Generation Date	24/10/06 19:52
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	182.1	WCDMA V_Voice_AMR WB 6. 60kbps_Ch4182_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	88.44	WCDMA V_Voice_AMR WB 6. 60kbps_Ch4182_8N

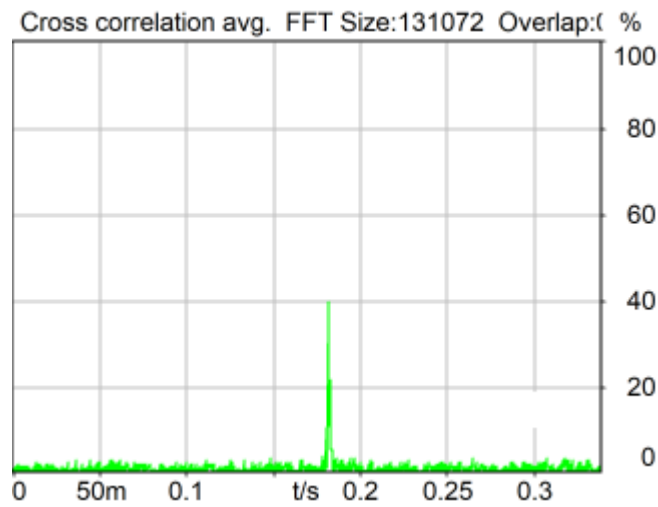
ACQUA Report
60kbps_Ch4182_8N

Title: WCDMA V_Voice_AMR WB 6.

Overall Receive Delay WB	5
5.1a Receive Volume Control Performance 8N WB	6

Overall Receive Delay WB

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

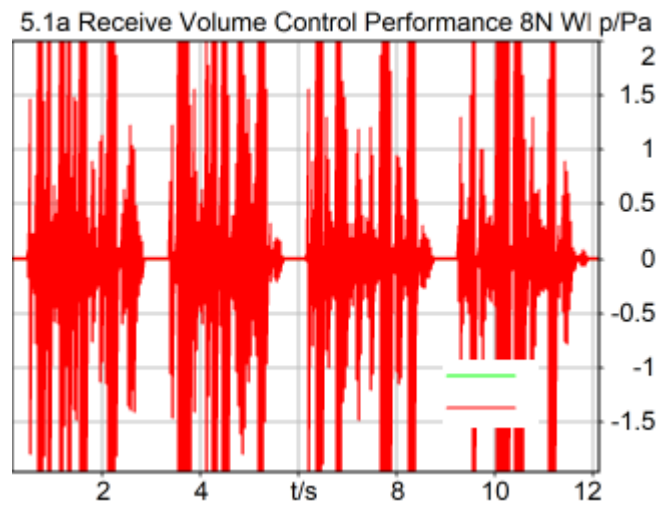


Delay (Cross): 182.1 ms

24/10/06 19:52 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



Speech Level RCV: 88.44 dB[SPL], Act.: 79.97% Ok

Ok

24/10/06 19:52 ACQUA 5.1.200

ACQUA Report
NB 24.4kbps_Ch21100_2N

Title: 07_LTE Band 7_20M_QPSK_1RB_0Offset_EVS

Measurement Protocol

Measurement Object	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
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Project	461912
Report Generation Date	24/09/30 15:13
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	150.7	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.09	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.87	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.39	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.05	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.03	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.49	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.14	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.97	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.80	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.40	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.51	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	27.14	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	1.84	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	1.83	LTE Band 7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N

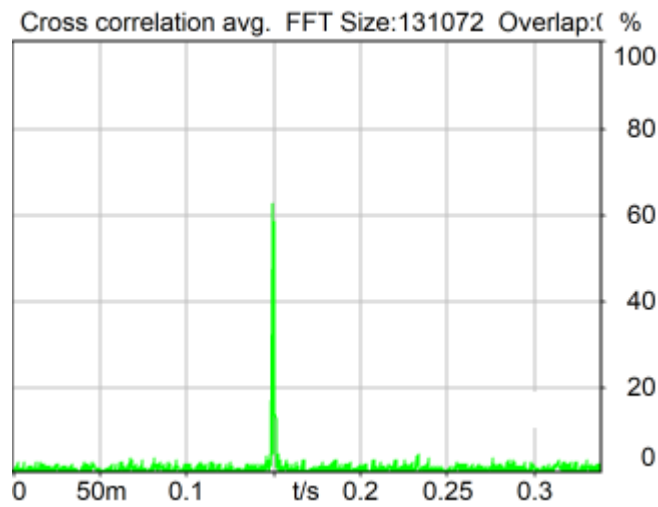
ACQUA Report
NB 24.4kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1RB_0Offset_EVS

Overall Receive Delay NB	5
5.1b Receive Volume Control Performance 2N NB	6
5.2 RCV Distortion and Noise - 400 Hz NB	7
5.2 RCV Distortion and Noise - 500 Hz NB	8
5.2 RCV Distortion and Noise - 630 Hz NB	9
5.2 RCV Distortion and Noise - 800 Hz NB	10
5.2 RCV Distortion and Noise - 1000 Hz NB	11
5.2 RCV Distortion and Noise - 1250 Hz NB	12
5.2 RCV Distortion and Noise - 1600 Hz NB	13
5.2 RCV Distortion and Noise - 2000 Hz NB	14
5.2 RCV Distortion and Noise - 2500 Hz NB	15
5.2 RCV Distortion and Noise - 3150 Hz NB	16
Report - Receive Distortion and Noise (Conversational Gain)	17
5.3 Frequency Response 2N FF HANB	18
5.3 Frequency Response 2N DF HANB	19

Overall Receive Delay NB

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

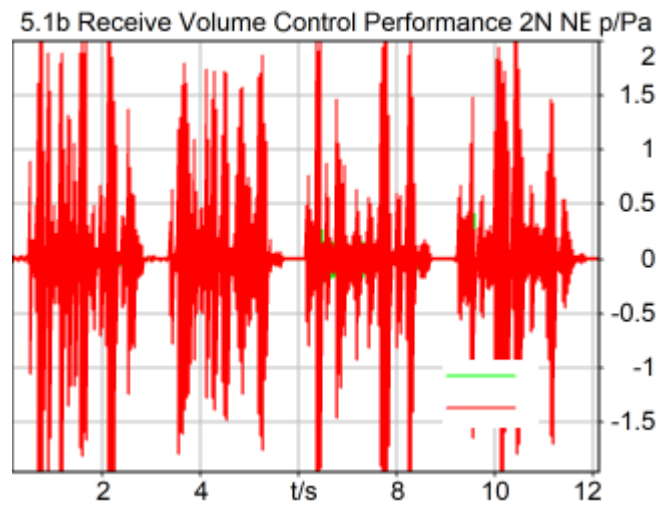


Delay (Cross): 150.7 ms

24/09/30 15:06 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



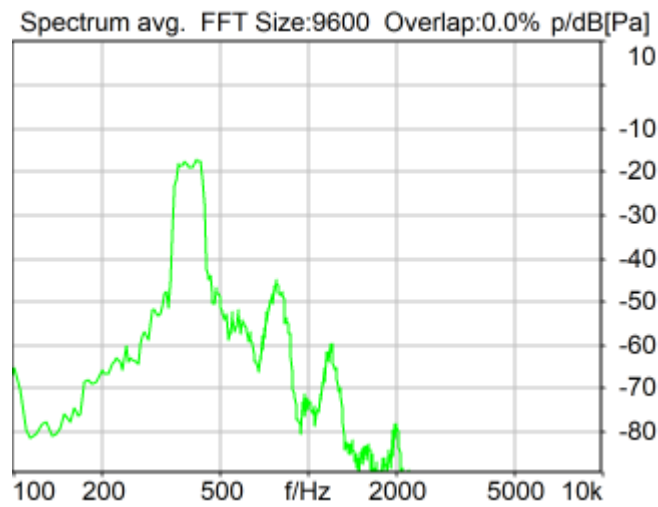
Speech Level RCV: 84.09 dB[SPL], Act.: 79.77% Ok

Ok

24/09/30 15:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



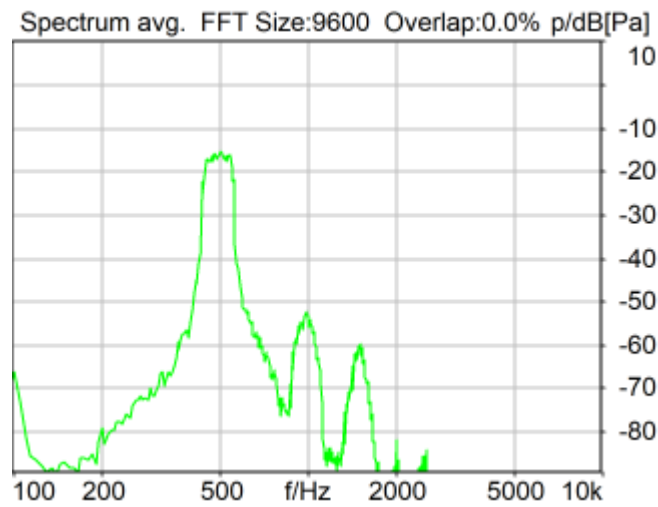
Distortion (Noise) RCV (packed): 27.87 dB (4.04%) Ok

Ok

24/09/30 15:07 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz NB

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



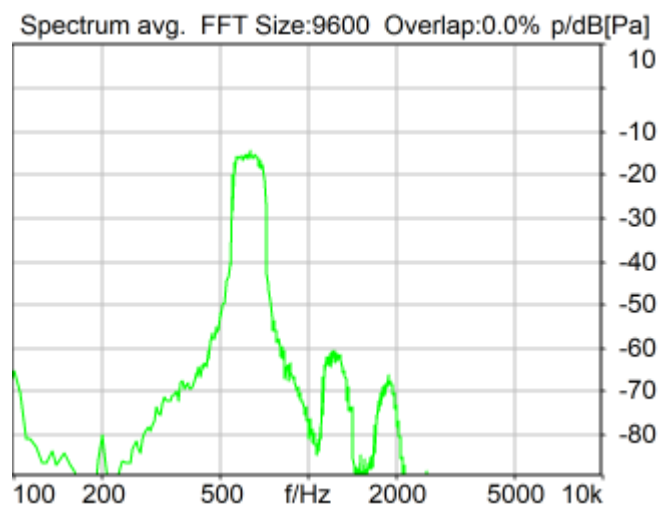
Distortion (Noise) RCV (packed): 34.39 dB (1.91%) Ok

Ok

24/09/30 15:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



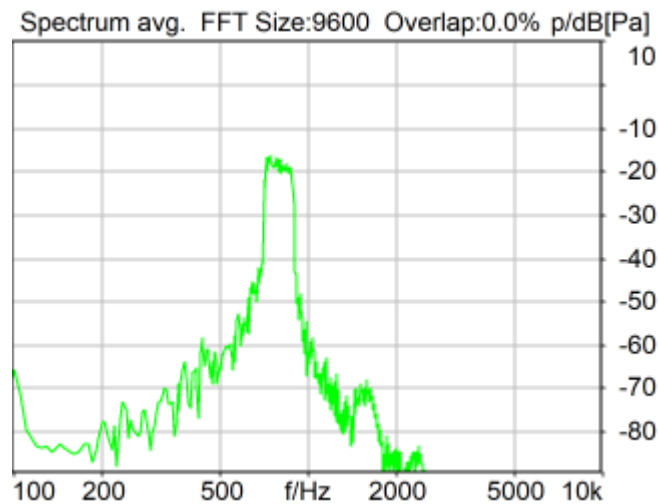
Distortion (Noise) RCV (packed): 39.05 dB (1.12%) Ok

Ok

24/09/30 15:08 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz NB

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



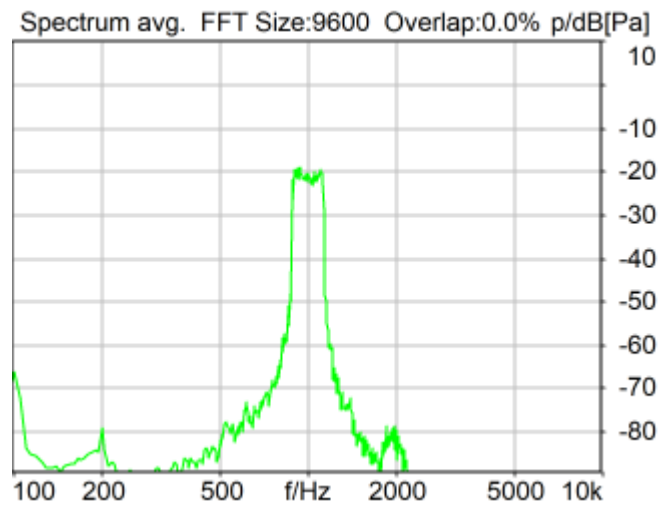
Distortion (Noise) RCV (packed): 34.03 dB (1.99%) Ok

Ok

24/09/30 15:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz NB

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



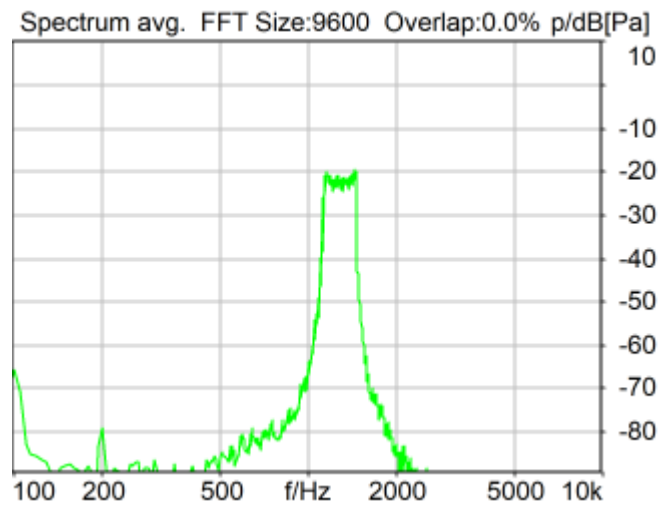
Distortion (Noise) RCV (packed): 41.49 dB (0.84%) Ok

Ok

24/09/30 15:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz NB

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



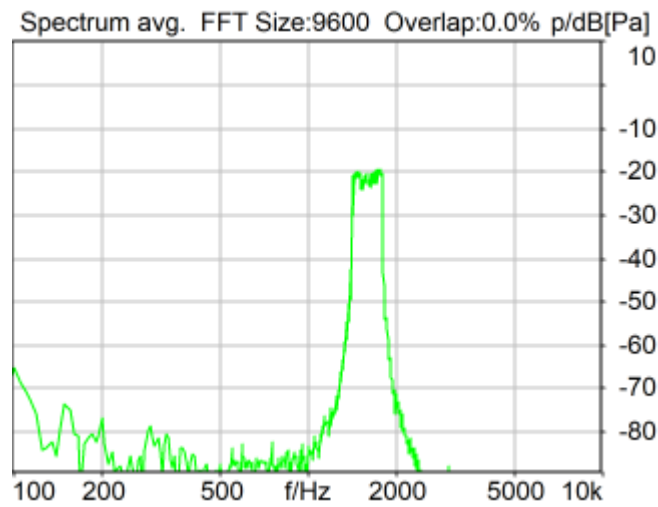
Distortion (Noise) RCV (packed): 27.14 dB (4.40%) Ok

Ok

24/09/30 15:09 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz NB

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



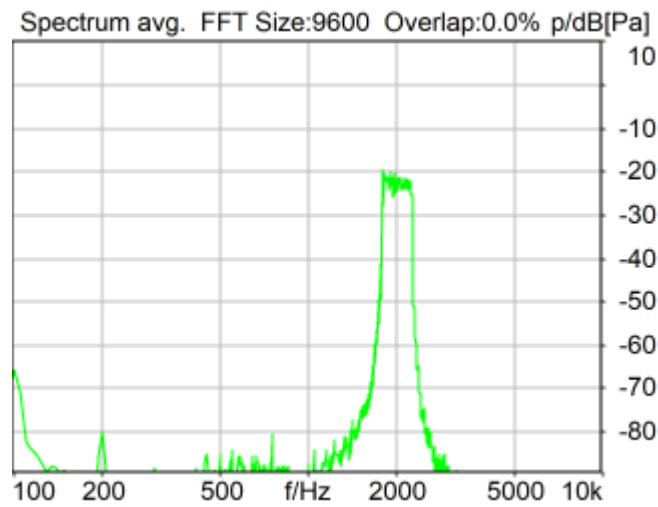
Distortion (Noise) RCV (packed): 38.97 dB (1.13%) Ok

Ok

24/09/30 15:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz NB

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



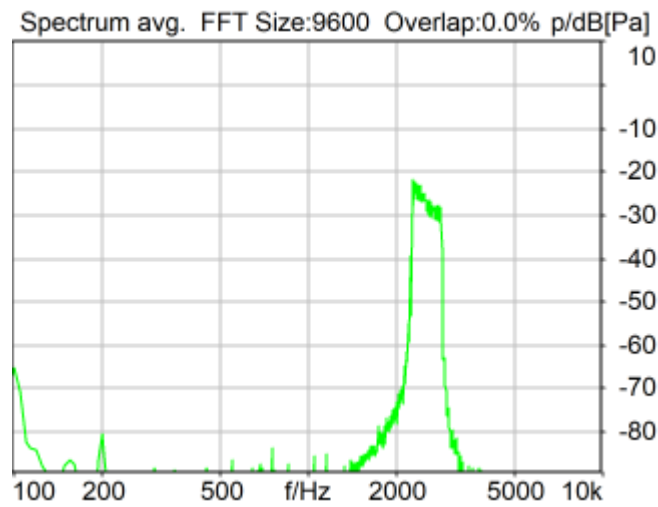
Distortion (Noise) RCV (packed): 38.80 dB (1.15%) Ok

Ok

24/09/30 15:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz NB

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



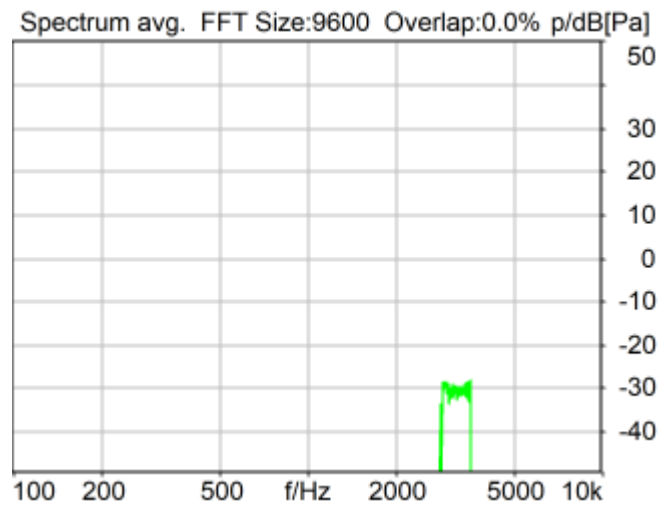
Distortion (Noise) RCV (packed): 39.40 dB (1.07%) Ok

Ok

24/09/30 15:11 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 39.51 dB (1.06%) Ok

Ok

24/09/30 15:11 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	400Hz	27.87 dB
2	500Hz	34.39 dB
3	630Hz	39.05 dB
4	800Hz	34.03 dB
5	1000Hz	41.49 dB
6	1250Hz	27.14 dB
7	1600Hz	38.97 dB
8	2000Hz	38.80 dB
9	2500Hz	39.40 dB
10	3150Hz	39.51 dB

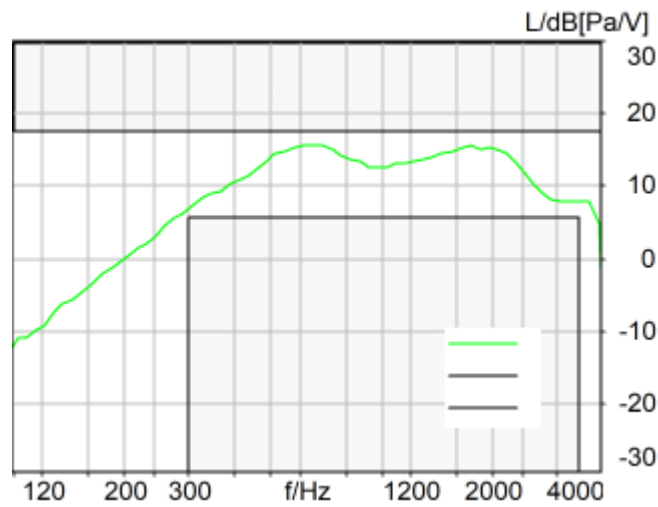
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 27.14dB at 1250Hz.

24/09/30 15:11 ACQUA

5.3 Frequency Response 2N FF HANB

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



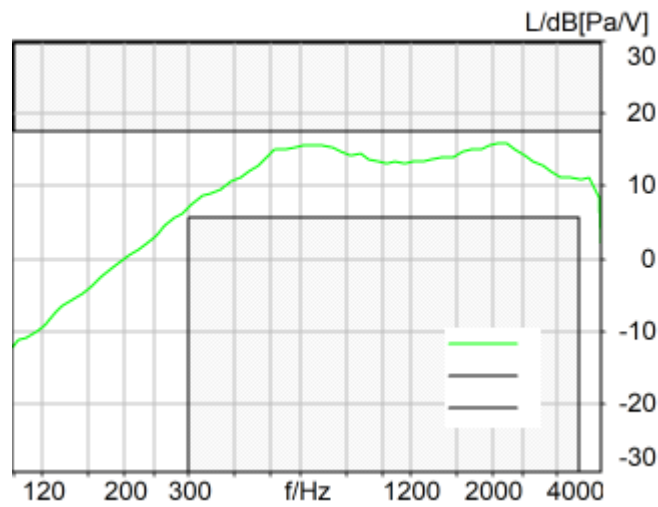
Absolute minimal distance
1.84 dB at 305.9 Hz Ok

Ok

24/09/30 15:12 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.83 dB at 305.9 Hz Ok

Ok

24/09/30 15:12 ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
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Project	461912
Report Generation Date	24/10/08 15:03
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	271.5	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.50	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.87	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.41	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.69	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.06	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.67	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	48.53	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.44	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.19	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	56.54	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	55.68	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	52.24	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N

ACQUA Report
WB 128kbps_Ch156400_2N

Title: FR1 n13_10M_QPSK_1RB_1Offset_EVS

				EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.35	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.13	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	48.71	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 250Hz)	23.87	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 7764.8 Hz	0.85	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 544.4 Hz	1.40	FR1 n13_10M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch156400_2N

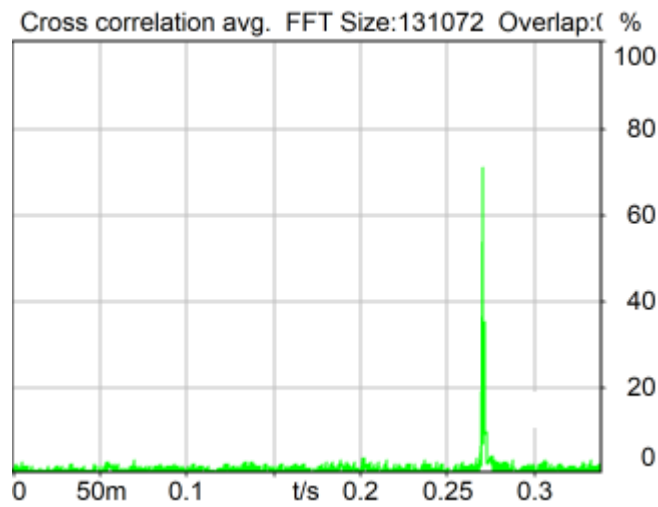
ACQUA Report
WB 128kbps_Ch156400_2N

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

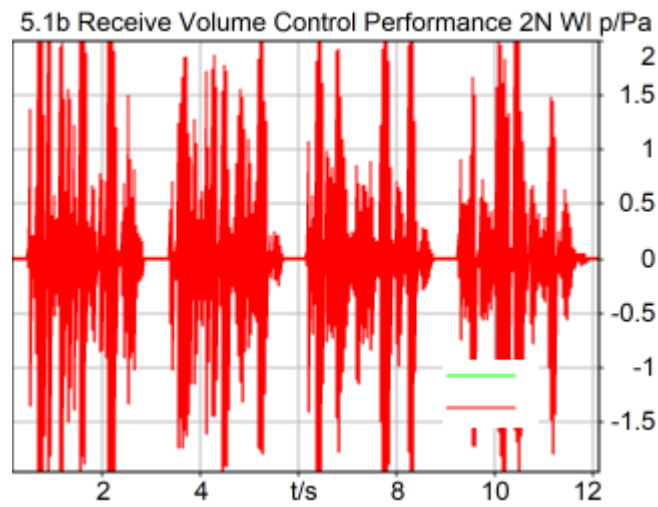


Delay (Cross): 271.5 ms

24/10/08 14:55 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



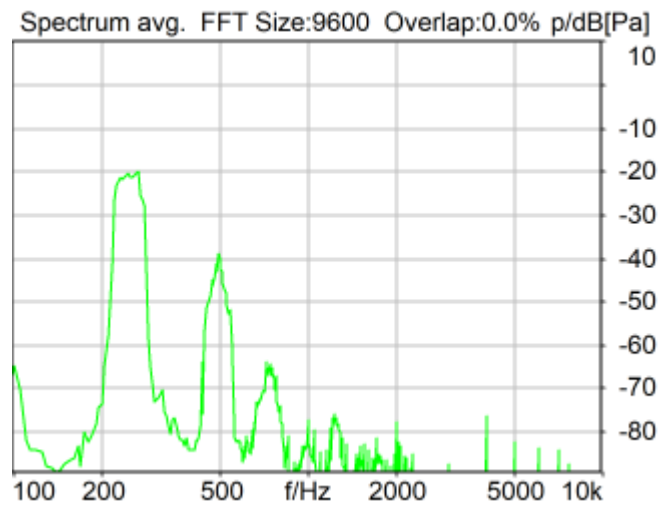
Speech Level RCV: 84.50 dB[SPL], Act.: 82.71% Ok

Ok

24/10/08 14:55 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



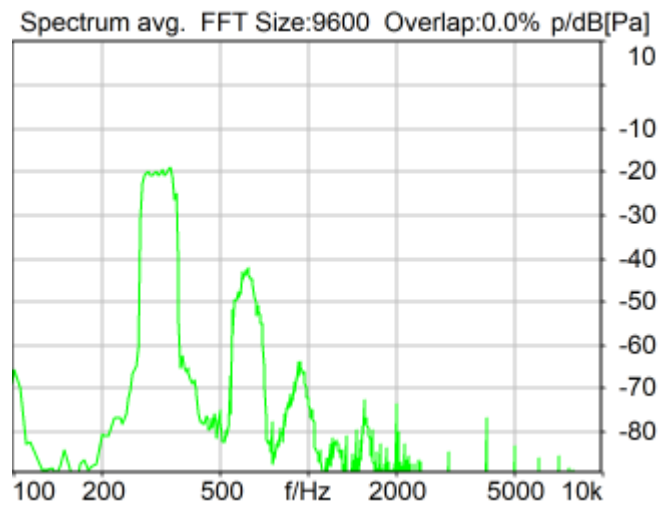
Distortion (Noise) RCV (packed): 23.87 dB (6.40%) Ok

Ok

24/10/08 14:56 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



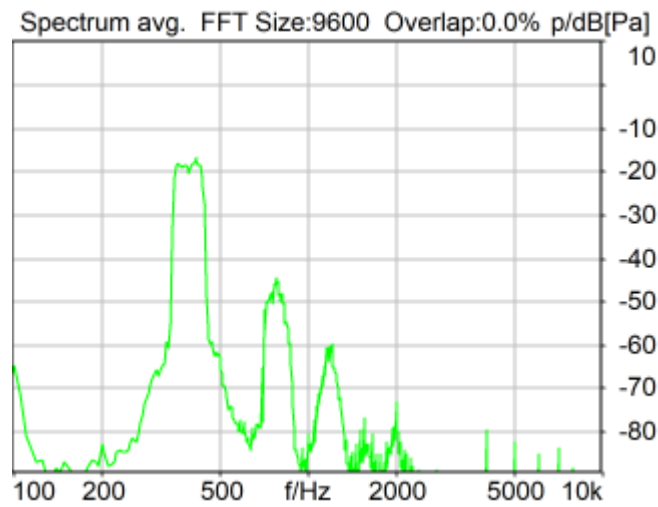
Distortion (Noise) RCV (packed): 25.41 dB (5.36%) Ok

Ok

24/10/08 14:56 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



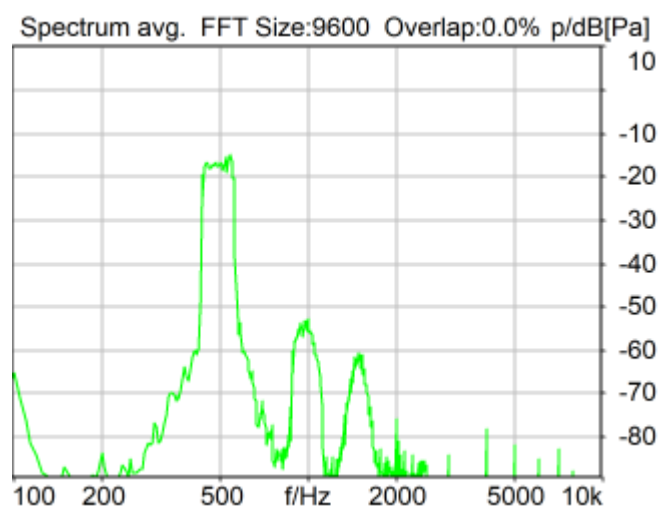
Distortion (Noise) RCV (packed): 28.69 dB (3.67%) Ok

Ok

24/10/08 14:57 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



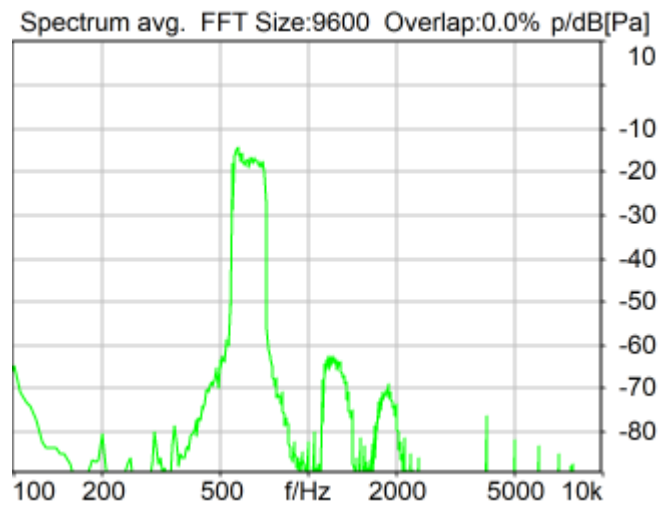
Distortion (Noise) RCV (packed): 36.06 dB (1.57%) Ok

Ok

24/10/08 14:57 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



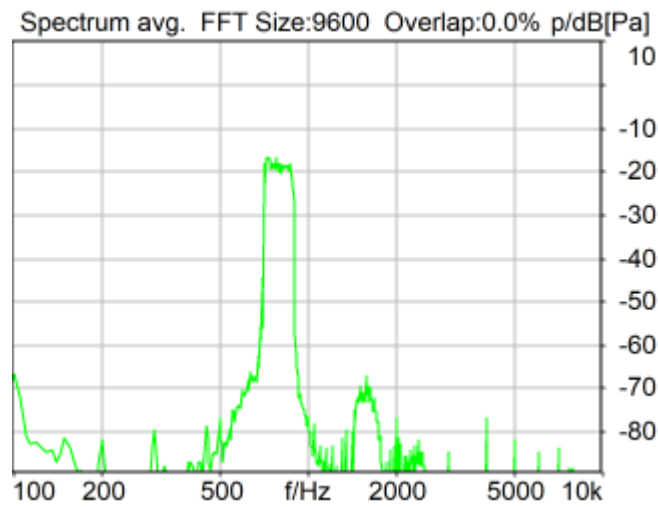
Distortion (Noise) RCV (packed): 43.67 dB (0.66%) Ok

Ok

24/10/08 14:57 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



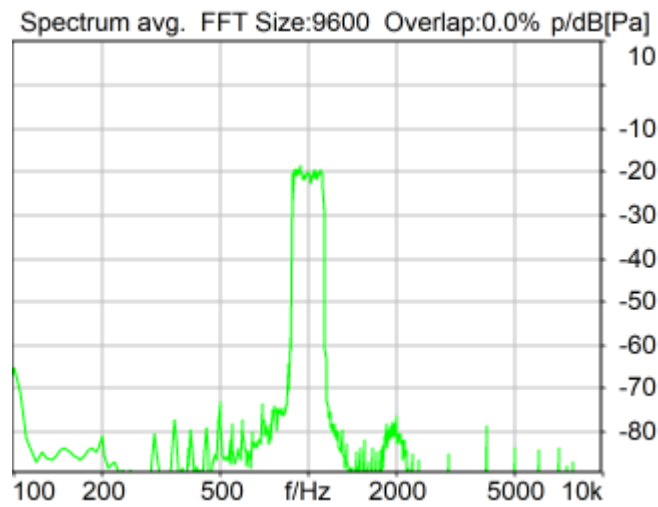
Distortion (Noise) RCV (packed): 48.53 dB (0.37%) Ok

Ok

24/10/08 14:58 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



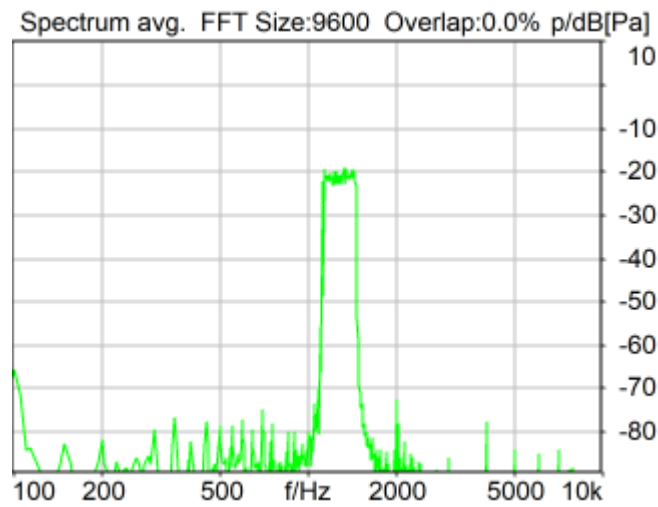
Distortion (Noise) RCV (packed): 52.44 dB (0.24%) Ok

Ok

24/10/08 14:58 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



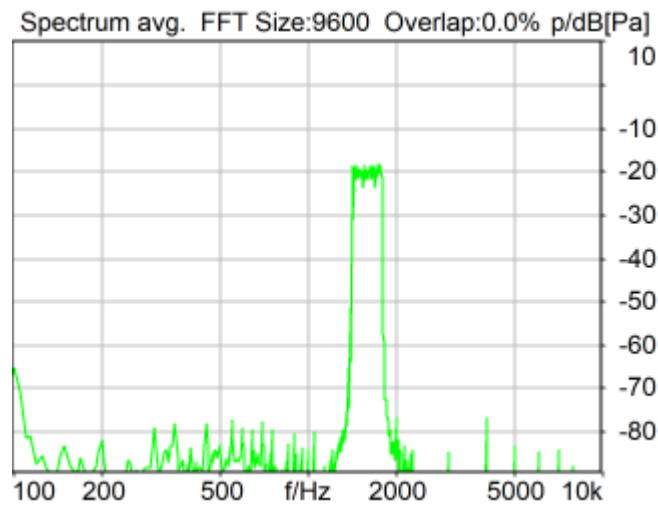
Distortion (Noise) RCV (packed): 33.19 dB (2.19%) Ok

Ok

24/10/08 14:59 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



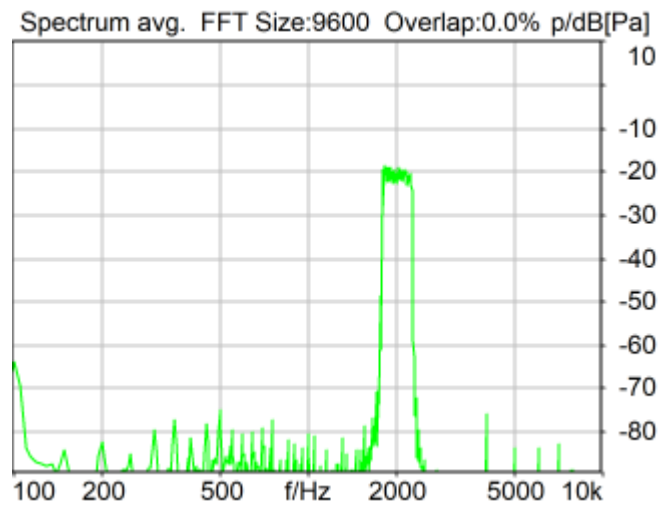
Distortion (Noise) RCV (packed): 56.54 dB (0.15%) Ok

Ok

24/10/08 14:59 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



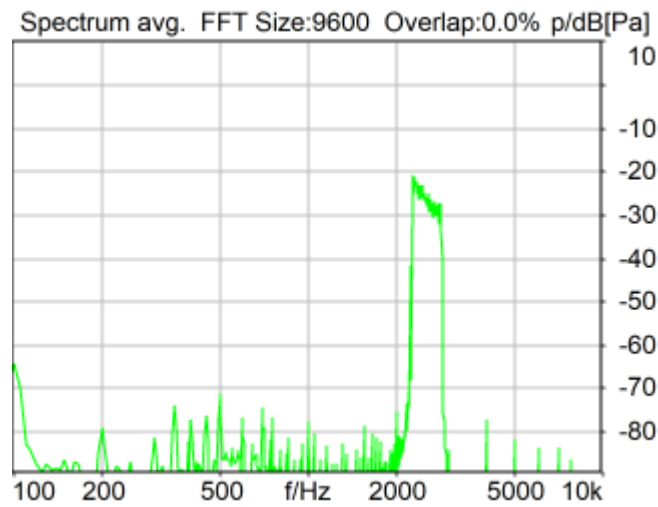
Distortion (Noise) RCV (packed): 55.68 dB (0.16%) Ok

Ok

24/10/08 15:00 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



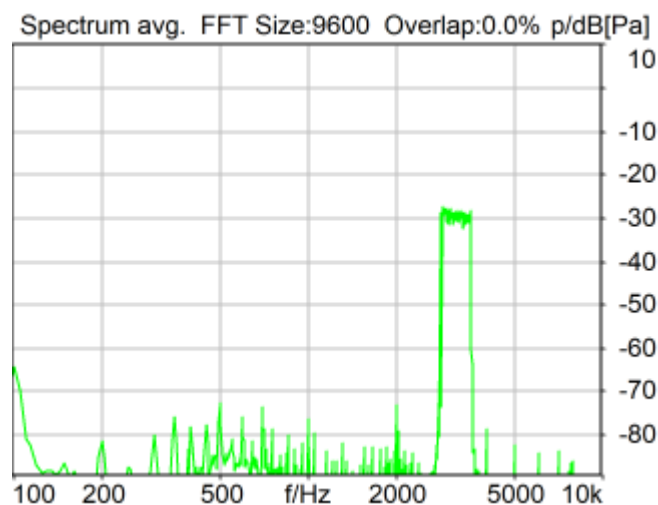
Distortion (Noise) RCV (packed): 52.24 dB (0.24%) Ok

Ok

24/10/08 15:00 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



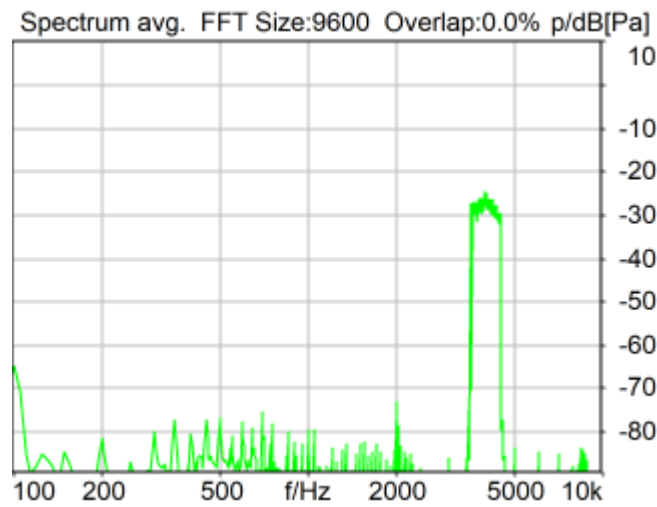
Distortion (Noise) RCV (packed): 50.35 dB (0.30%) Ok

Ok

24/10/08 15:01 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



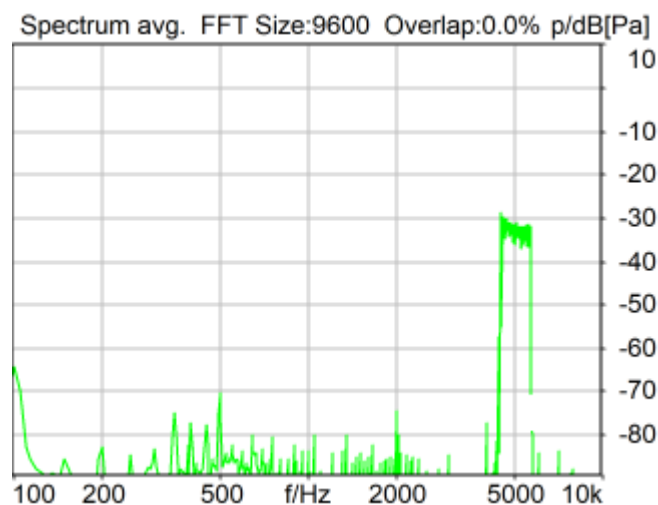
Distortion (Noise) RCV (packed): 53.13 dB (0.22%) Ok

Ok

24/10/08 15:01 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): 48.71 dB (0.37%) Ok

Ok

24/10/08 15:02 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	23.87 dB
2	315Hz	25.41 dB
3	400Hz	28.69 dB
4	500Hz	36.06 dB
5	630Hz	43.67 dB
6	800Hz	48.53 dB
7	1000Hz	52.44 dB
8	1250Hz	33.19 dB
9	1600Hz	56.54 dB
10	2000Hz	55.68 dB
11	2500Hz	52.24 dB
12	3150Hz	50.35 dB
13	4000Hz	53.13 dB
14	5000Hz	48.71 dB

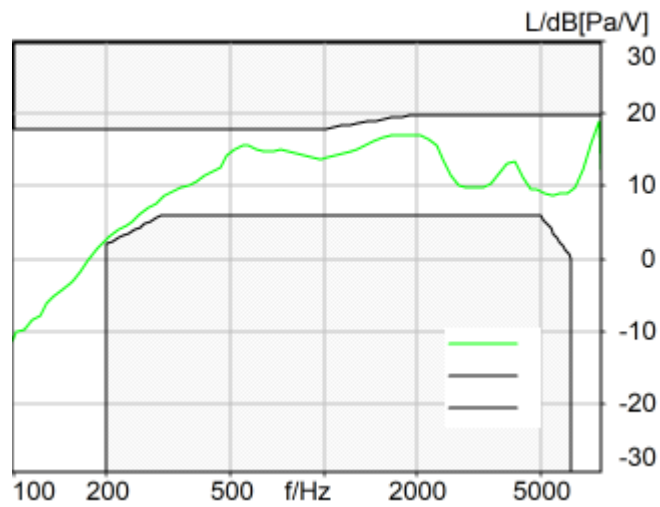
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.87dB at 250Hz.

24/10/08 15:02 ACQUA

5.3 Frequency Response 2N FF

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



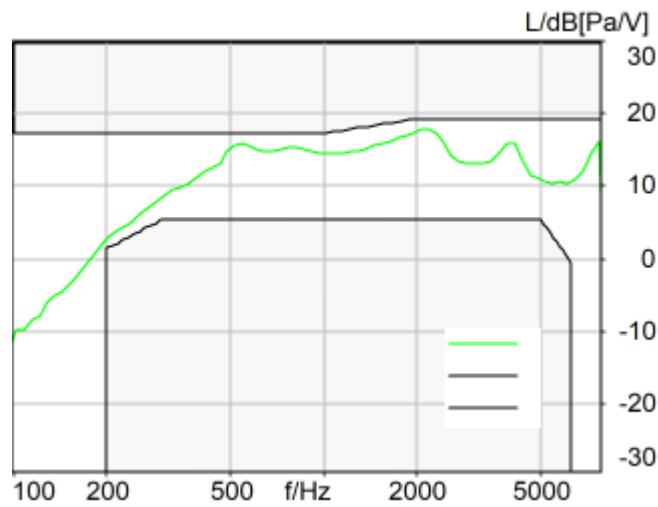
Absolute minimal distance
0.85 dB at 7764.8 Hz Ok

Ok

24/10/08 15:02 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.40 dB at 544.4 Hz Ok

Ok

24/10/08 15:03 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
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Project	461912
Report Generation Date	24/10/12 11:02
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	143.3	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.91	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.90	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.37	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.31	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.35	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.37	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.48	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.46	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.95	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.80	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.73	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.42	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.41	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.24	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.40	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	25.90	WLAN5GHz_802.11a

ACQUA Report
128kbps_Ch116_2N

Title: WLAN5GHz_802.11a 6Mbps_EVS WB

and Noise (Conversational Gain)		(occured at 250Hz)		6Mbps_EVS WB 128kbps_Ch116_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	0.39	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 823.9 Hz	0.14	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch116_2N

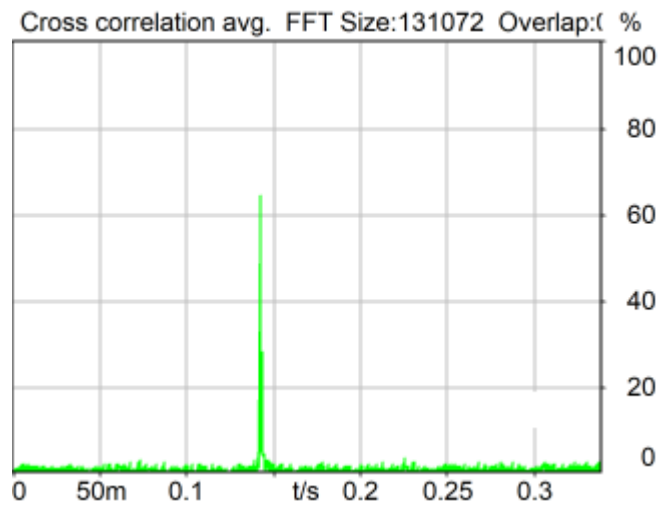
ACQUA Report
128kbps_Ch116_2N

Title: WLAN5GHz_802.11a 6Mbps_EVS WB

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

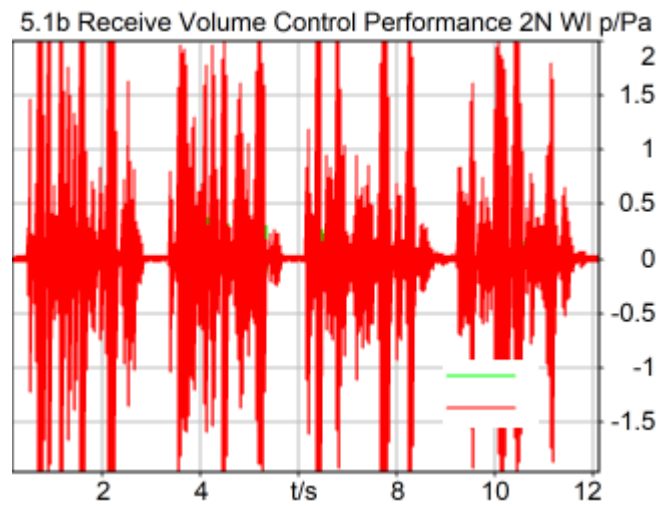


Delay (Cross): 143.3 ms

24/10/12 10:53 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



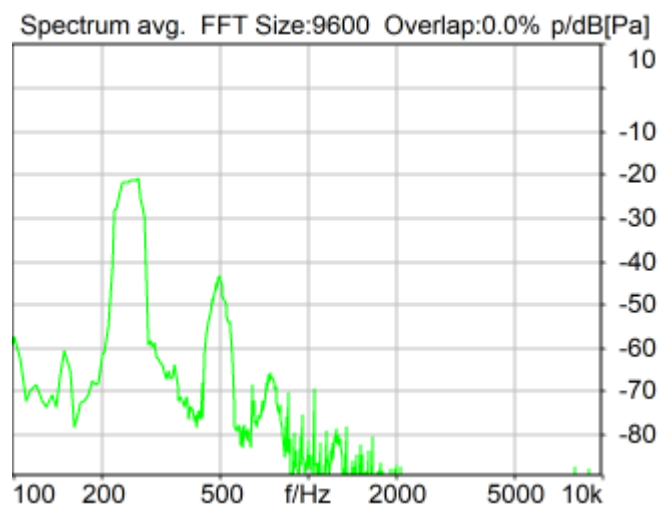
Speech Level RCV: 84.91 dB[SPL], Act.: 80.59% Ok

Ok

24/10/12 10:53 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



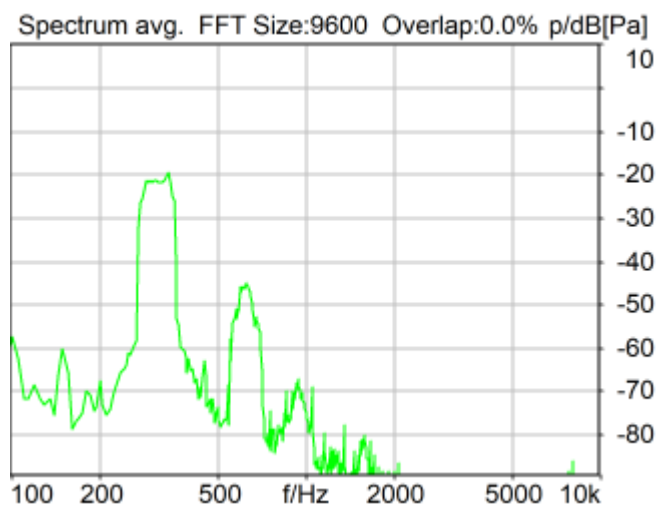
Distortion (Noise) RCV (packed): 25.90 dB (5.07%) Ok

Ok

24/10/12 10:54 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



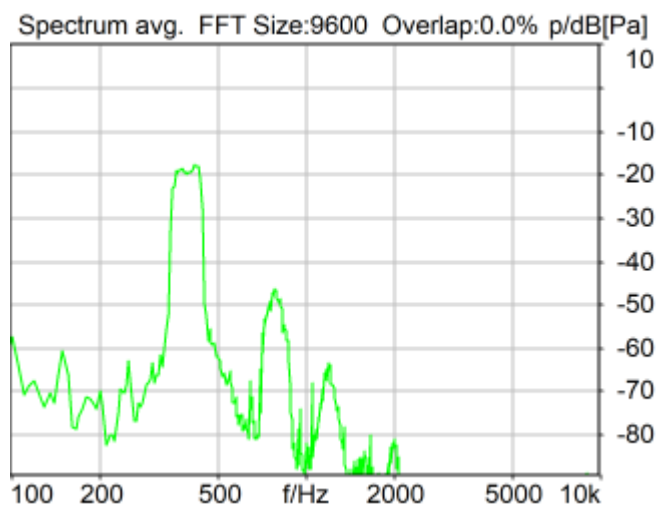
Distortion (Noise) RCV (packed): 26.37 dB (4.81%) Ok

Ok

24/10/12 10:54 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



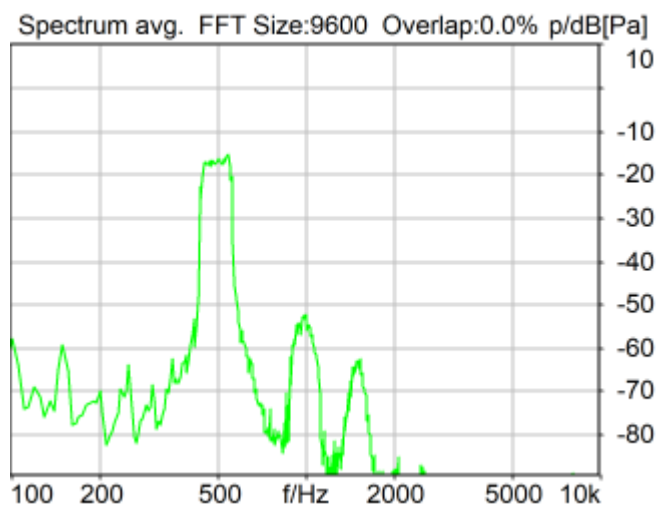
Distortion (Noise) RCV (packed): 29.31 dB (3.42%) Ok

Ok

24/10/12 10:55 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



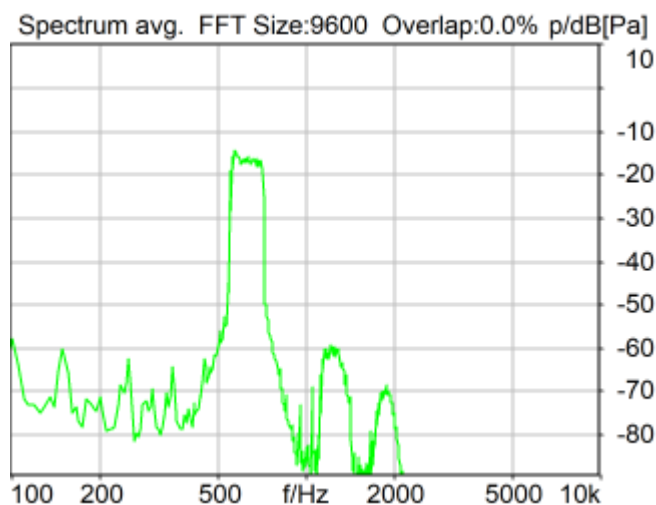
Distortion (Noise) RCV (packed): 35.35 dB (1.71%) Ok

Ok

24/10/12 10:55 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



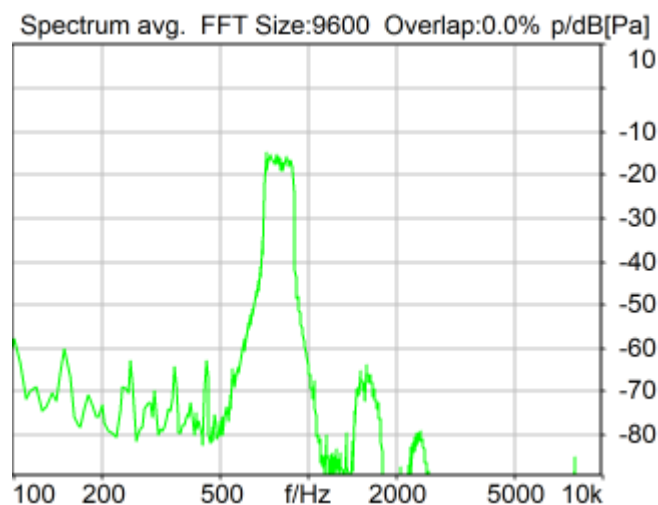
Distortion (Noise) RCV (packed): 40.37 dB (0.96%) Ok

Ok

24/10/12 10:55 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



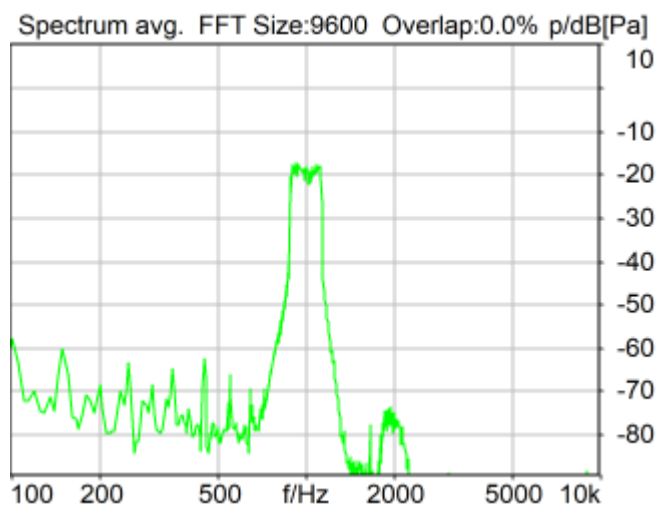
Distortion (Noise) RCV (packed): 38.48 dB (1.19%) Ok

Ok

24/10/12 10:56 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



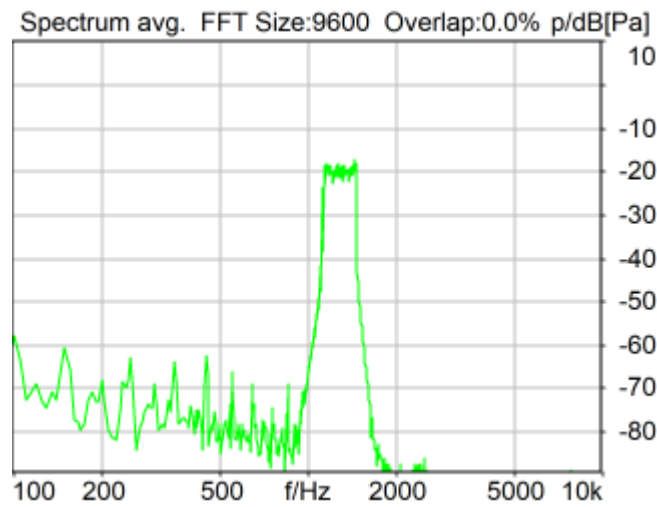
Distortion (Noise) RCV (packed): 37.46 dB (1.34%) Ok

Ok

24/10/12 10:56 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



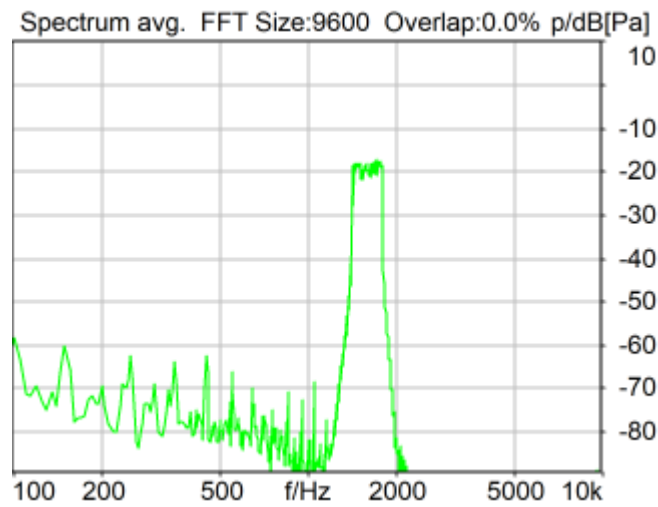
Distortion (Noise) RCV (packed): 28.95 dB (3.57%) Ok

Ok

24/10/12 10:57 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



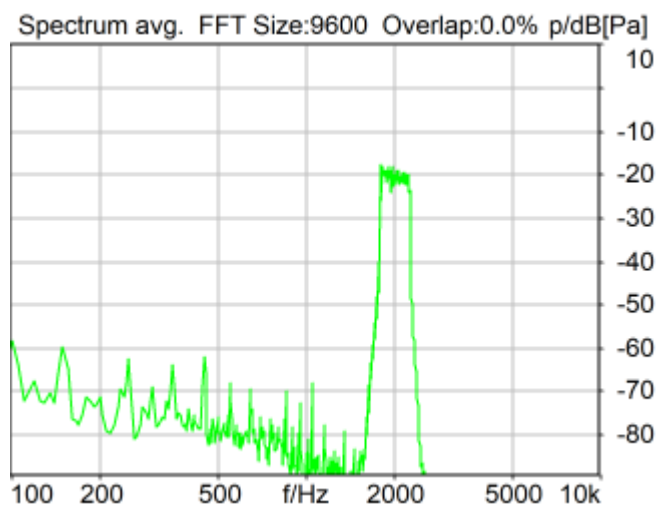
Distortion (Noise) RCV (packed): 39.80 dB (1.02%) Ok

Ok

24/10/12 10:57 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



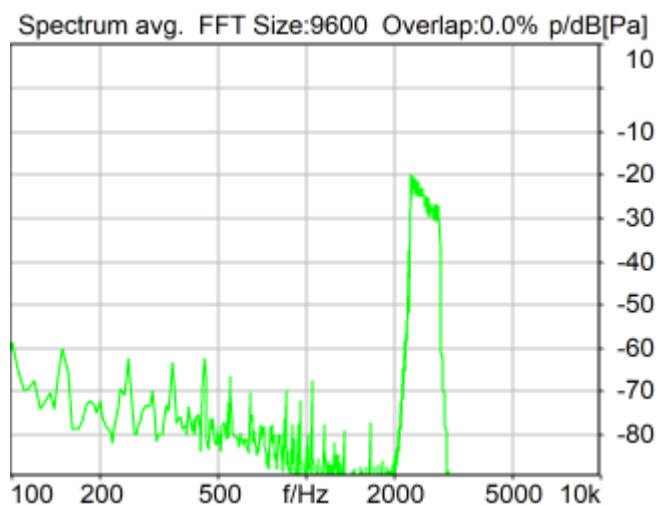
Distortion (Noise) RCV (packed): 38.73 dB (1.16%) Ok

Ok

24/10/12 10:58 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



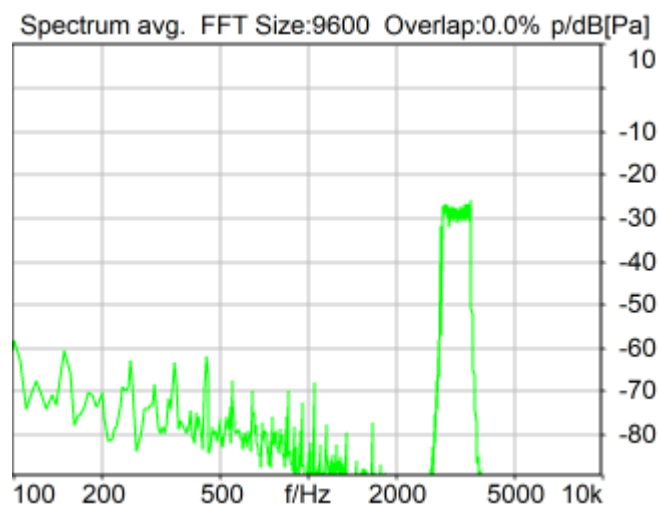
Distortion (Noise) RCV (packed): 39.42 dB (1.07%) Ok

Ok

24/10/12 10:58 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



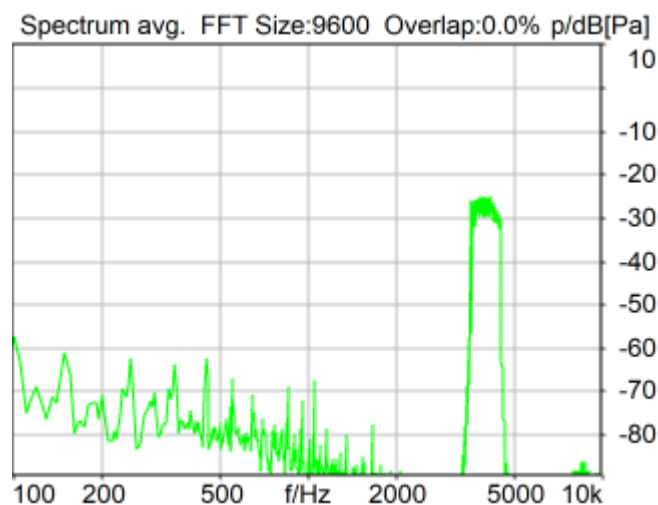
Distortion (Noise) RCV (packed): 39.41 dB (1.07%) Ok

Ok

24/10/12 10:59 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



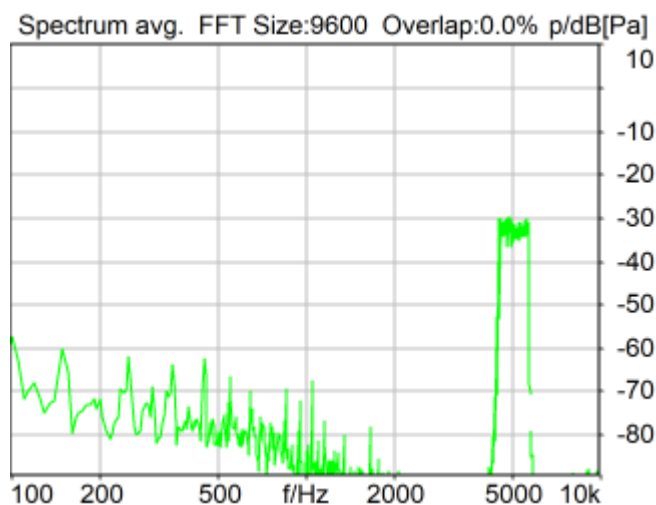
Distortion (Noise) RCV (packed): 42.24 dB (0.77%) Ok

Ok

24/10/12 10:59 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): 39.40 dB (1.07%) Ok

Ok

24/10/12 11:00 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	25.90 dB
2	315Hz	26.37 dB
3	400Hz	29.31 dB
4	500Hz	35.35 dB
5	630Hz	40.37 dB
6	800Hz	38.48 dB
7	1000Hz	37.46 dB
8	1250Hz	28.95 dB
9	1600Hz	39.80 dB
10	2000Hz	38.73 dB
11	2500Hz	39.42 dB
12	3150Hz	39.41 dB
13	4000Hz	42.24 dB
14	5000Hz	39.40 dB

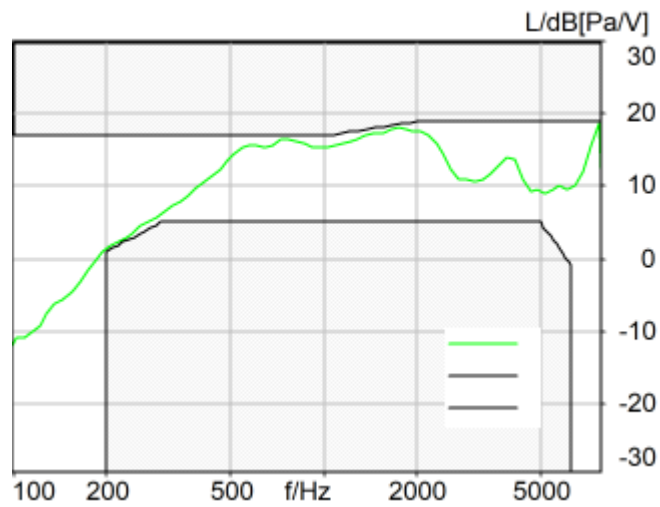
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 25.90dB at 250Hz.

24/10/12 11:01 ACQUA

5.3 Frequency Response 2N FF

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



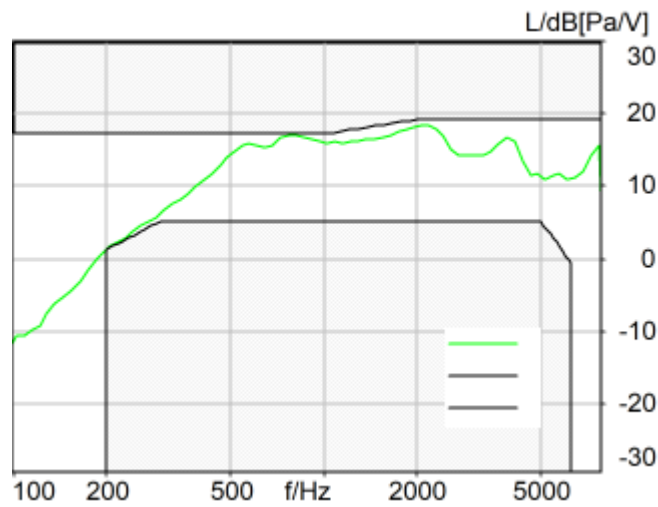
Absolute minimal distance
0.39 dB at 205.7 Hz Ok

Ok

24/10/12 11:01 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.14 dB at 823.9 Hz Ok

Ok

24/10/12 11:02 ACQUA 5.1.200