

Measurement Protocol

Measurement Object	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
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Project	471902
Report Generation Date	24/08/12 13:55
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	111.7	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.84	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.14	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.96	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.06	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.87	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.24	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.48	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.15	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.45	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.78	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.34	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.05	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.33	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.74	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.65	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	22.78	LTE Band

ACQUA Report

Title: LTE Band

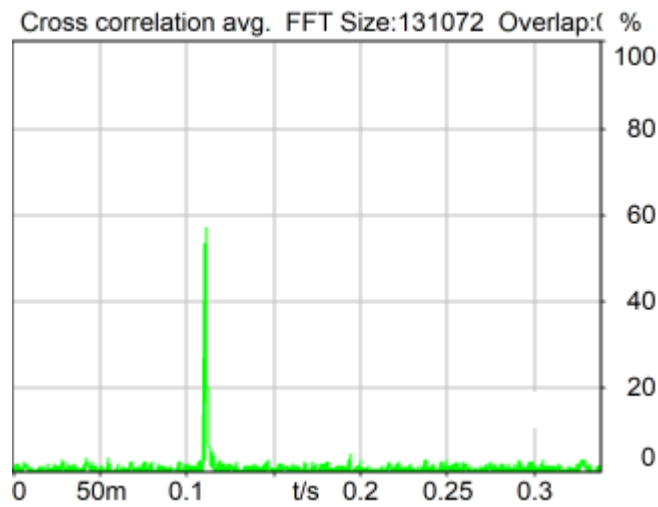
30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N

and Noise (Conversational Gain)		, (occured at 1600Hz)		30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.51	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.84	LTE Band 30_10M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch27710_2N

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

Overall Receive Delay WB

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

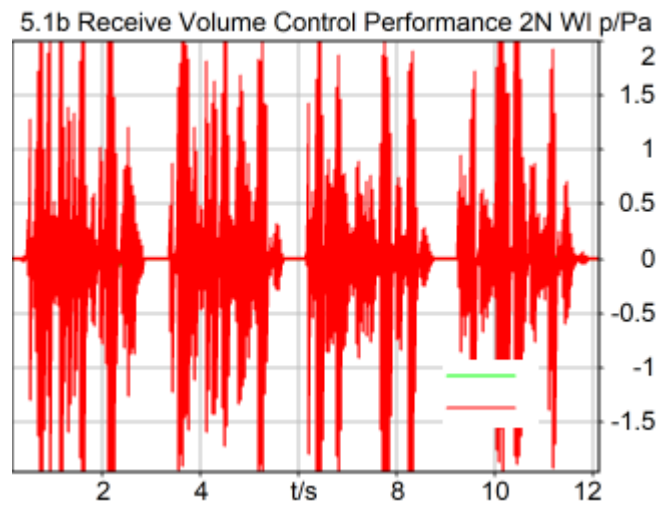


Delay (Cross): 111.7 ms

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5.1b Receive Volume Control Performance 2N WB

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



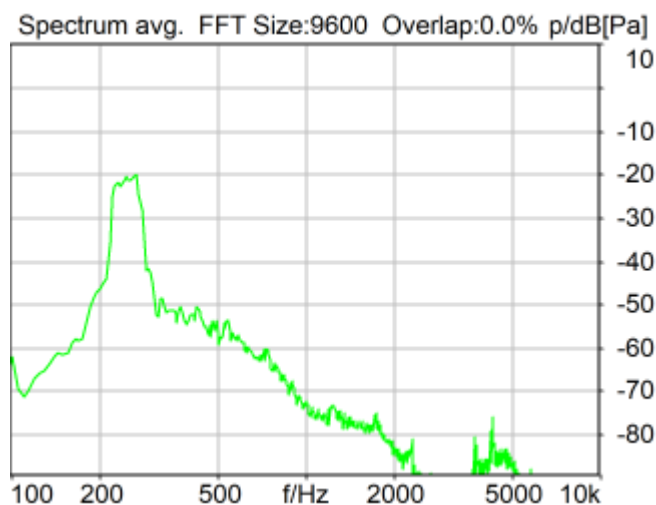
Speech Level RCV: 84.84 dB[SPL], Act.: 82.75% Ok

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



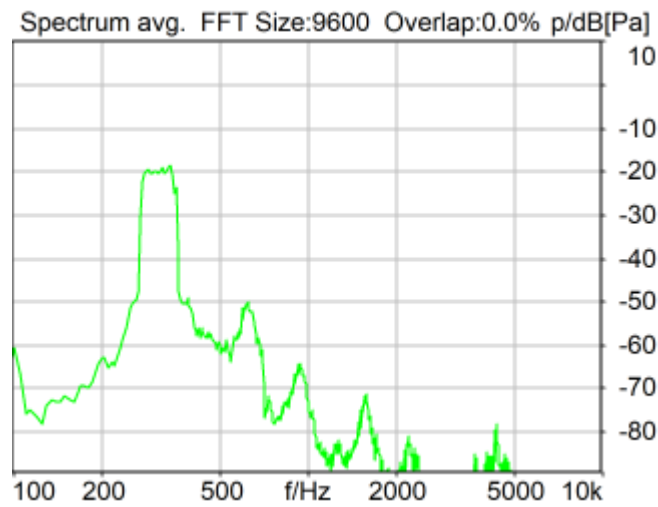
Distortion (Noise) RCV (packed): 28.14 dB (3.92%) Ok

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



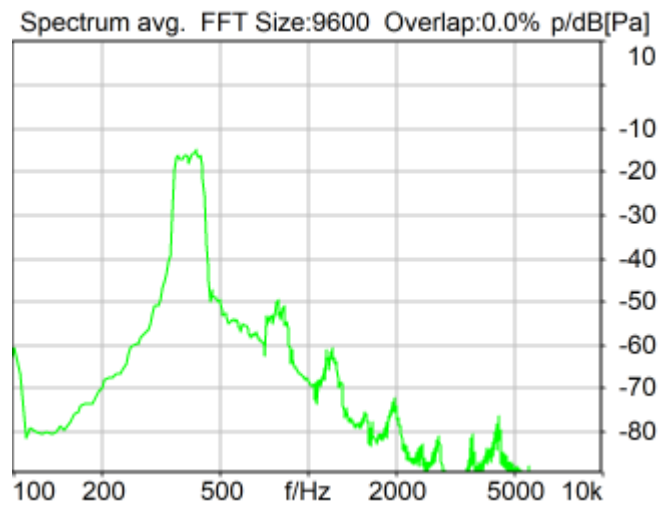
Distortion (Noise) RCV (packed): 31.96 dB (2.52%) Ok

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



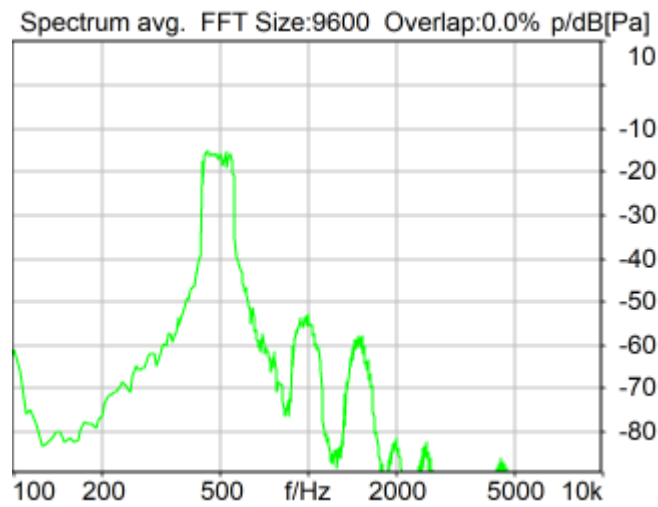
Distortion (Noise) RCV (packed): 32.06 dB (2.49%) Ok

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



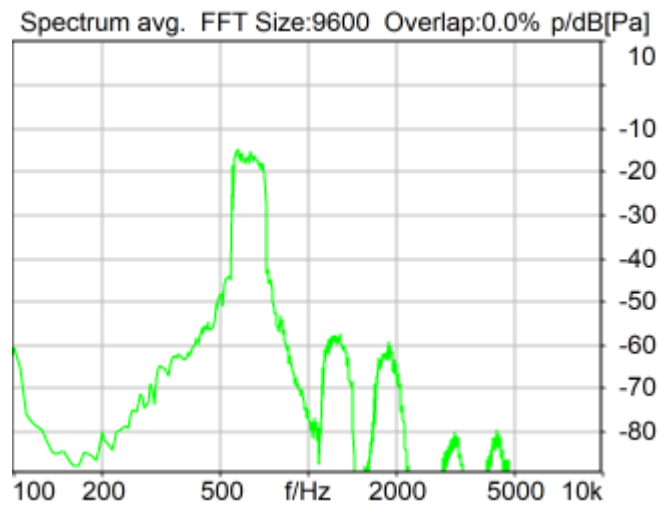
Distortion (Noise) RCV (packed): 32.87 dB (2.27%) Ok

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



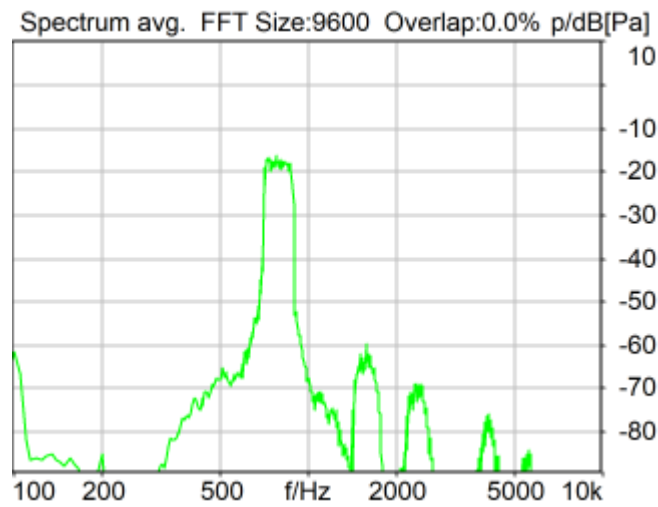
Distortion (Noise) RCV (packed): 34.24 dB (1.94%) Ok

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



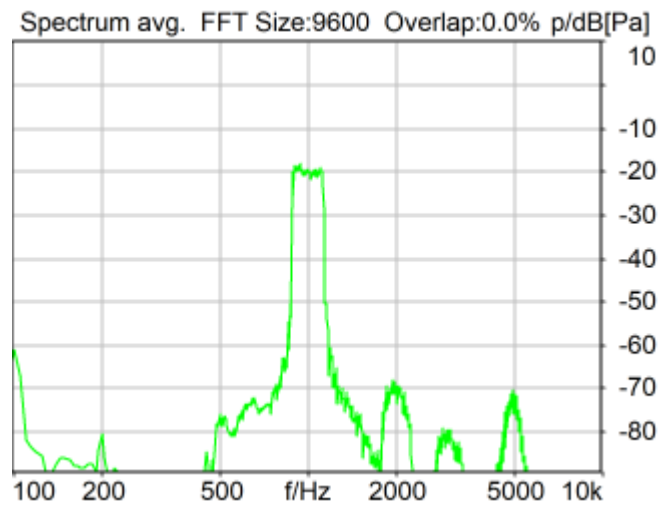
Distortion (Noise) RCV (packed): 39.48 dB (1.06%) Ok

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



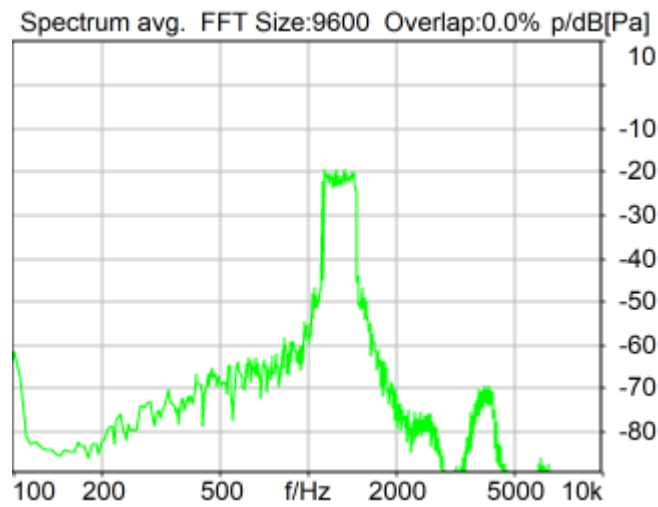
Distortion (Noise) RCV (packed): 42.15 dB (0.78%) Ok

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



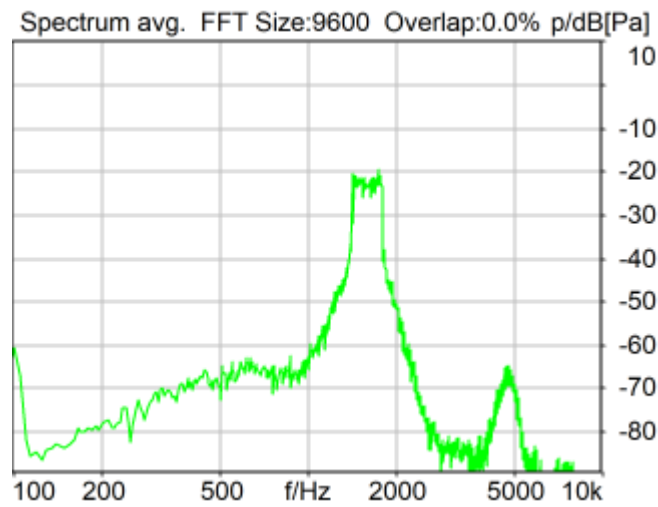
Distortion (Noise) RCV (packed): 27.45 dB (4.24%) Ok

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 2N



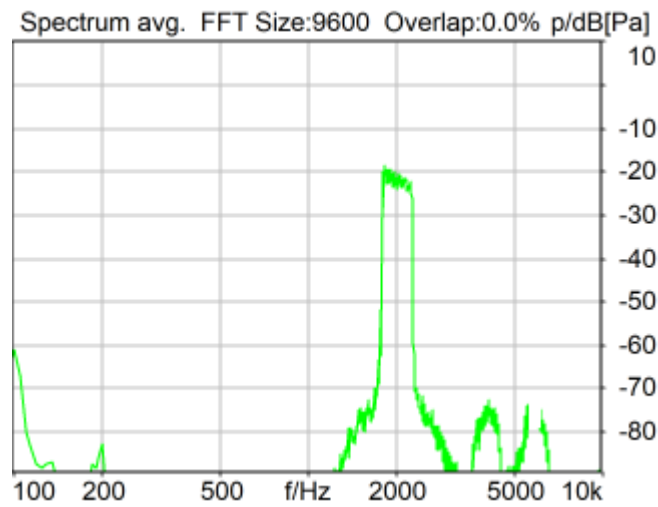
Distortion (Noise) RCV (packed): 22.78 dB (7.26%) Ok

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



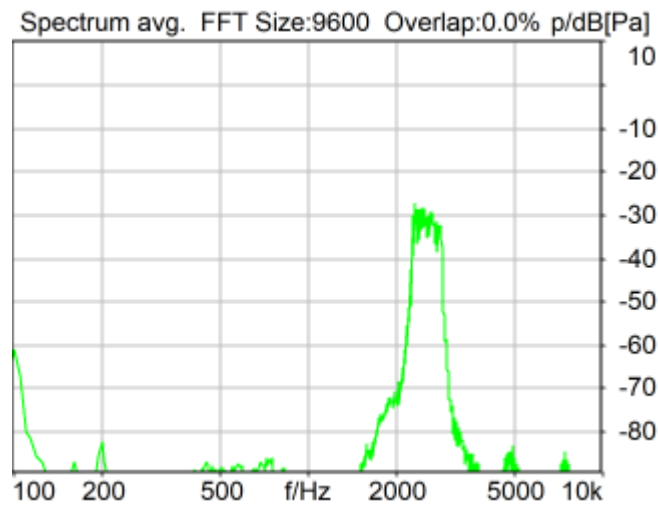
Distortion (Noise) RCV (packed): 45.34 dB (0.54%) Ok

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



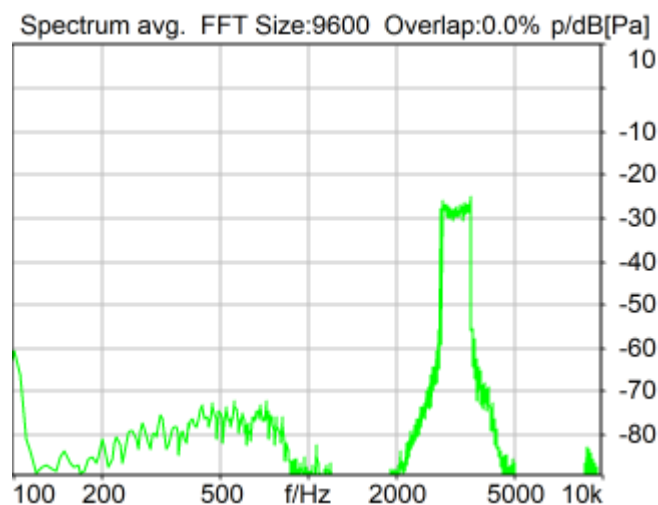
Distortion (Noise) RCV (packed): 28.05 dB (3.96%) Ok

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



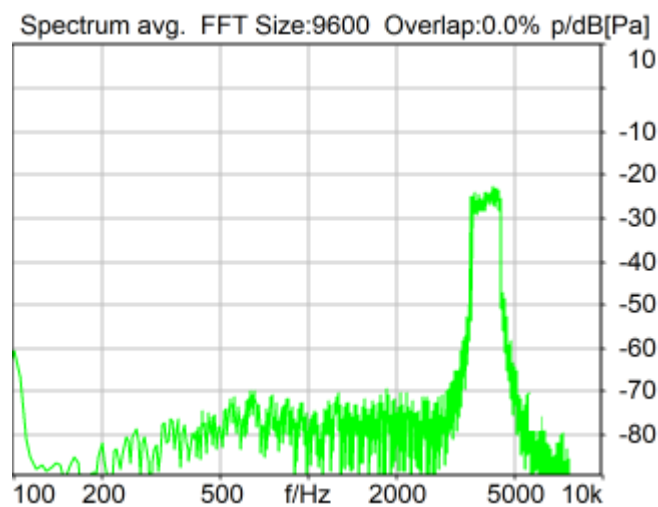
Distortion (Noise) RCV (packed): 36.33 dB (1.53%) Ok

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



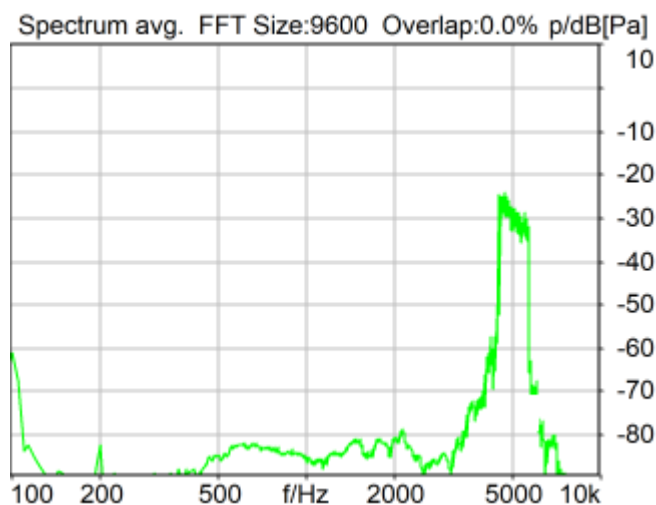
Distortion (Noise) RCV (packed): 30.74 dB (2.90%) Ok

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): 34.65 dB (1.85%) 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	28.14 dB
2	315Hz	31.96 dB
3	400Hz	32.06 dB
4	500Hz	32.87 dB
5	630Hz	34.24 dB
6	800Hz	39.48 dB
7	1000Hz	42.15 dB
8	1250Hz	27.45 dB
9	1600Hz	22.78 dB
10	2000Hz	45.34 dB
11	2500Hz	28.05 dB
12	3150Hz	36.33 dB
13	4000Hz	30.74 dB
14	5000Hz	34.65 dB

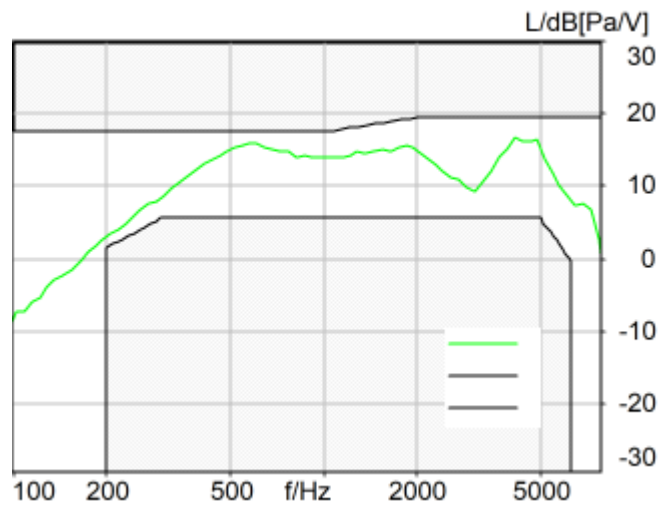
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.78dB at 1600Hz.

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5.3 Frequency Response 2N FF

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



Absolute minimal distance

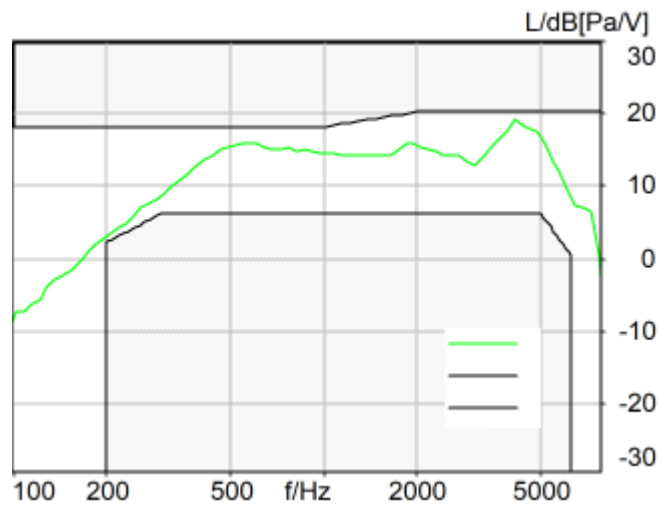
1.51 dB at 611.7 Hz Ok

Ok

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5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.84 dB at 4119.5 Hz Ok

Ok

24/08/12 13:53 ACQUA 5.1.200

ACQUA Report
WB 24.4kbps_Ch136100_2N

Title: 02_FR1 n71_30M_QPSK_1RB_1Offset_EVS

Measurement Protocol

Measurement Object	FR1 n71_30M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch136100_2N
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Project	471902
Report Generation Date	24/08/14 11:44
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	110.8	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.37	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.63	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.02	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.67	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.21	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.44	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.00	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.26	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.32	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	25.13	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.48	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.80	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.07	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.35	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.30	FR1 n71_30M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch136100_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	21.32	FR1

ACQUA Report
WB 24.4kbps_Ch136100_2N

Title: FR1 n71_30M_QPSK_1RB_1Offset_EVS

and Noise (Conversational Gain)		(occured at 1250Hz)		n71_30M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch136100_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.62	FR1 n71_30M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch136100_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	0.36	FR1 n71_30M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch136100_2N

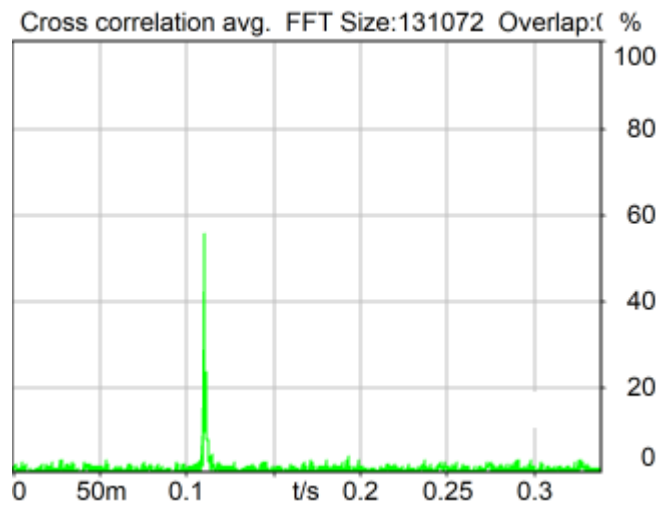
ACQUA Report
WB 24.4kbps_Ch136100_2N

Title: FR1 n71_30M_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

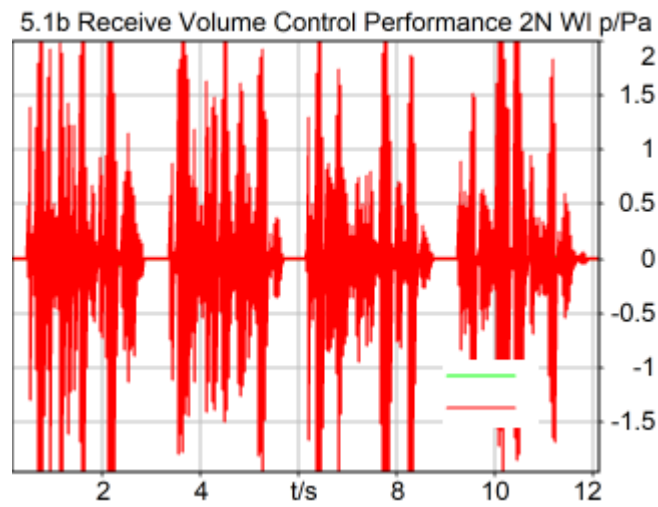


Delay (Cross): 110.8 ms

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5.1b Receive Volume Control Performance 2N WB

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



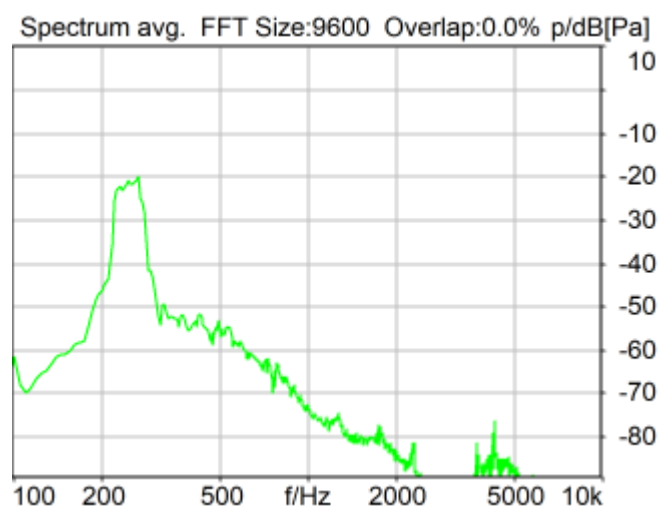
Speech Level RCV: 84.37 dB[SPL], Act.: 83.90% Ok

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



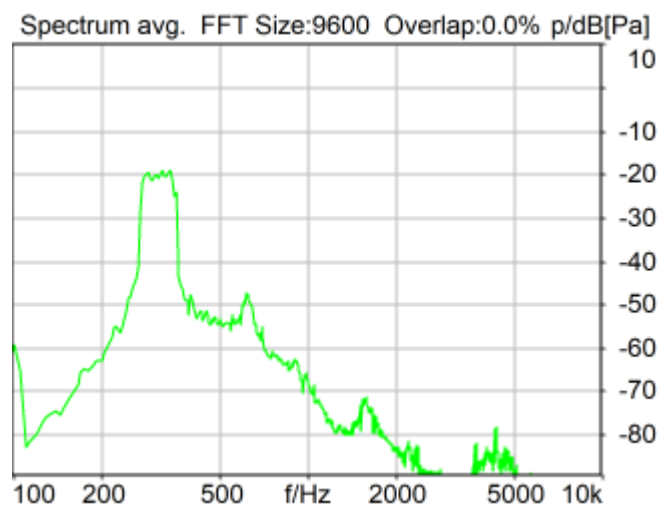
Distortion (Noise) RCV (packed): 28.63 dB (3.70%) Ok

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



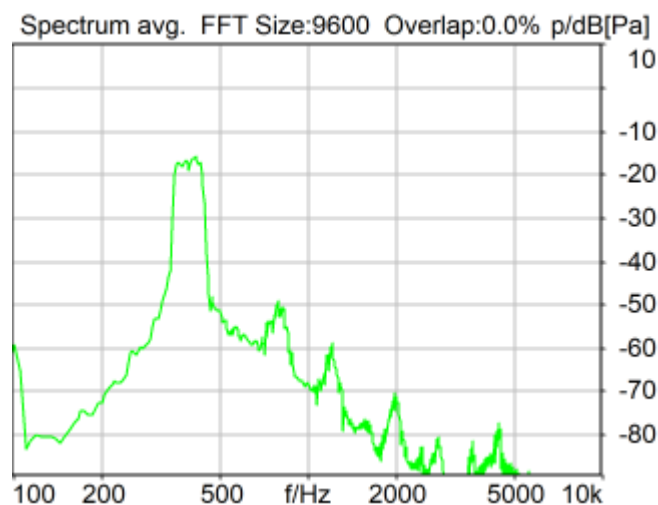
Distortion (Noise) RCV (packed): 28.02 dB (3.97%) Ok

Ok

24/08/14 11:37 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



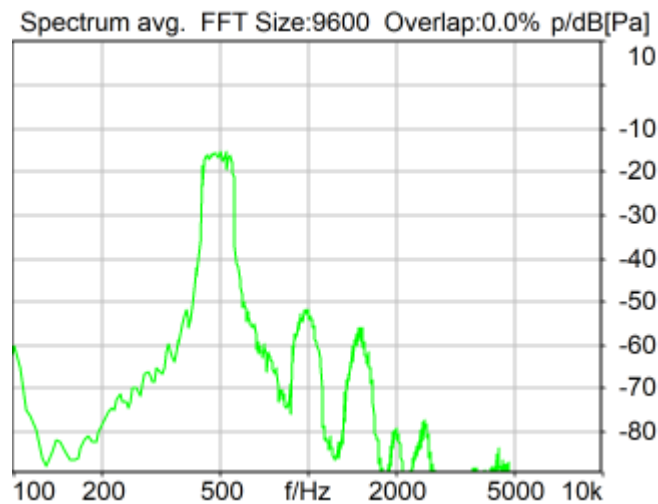
Distortion (Noise) RCV (packed): 31.67 dB (2.61%) Ok

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



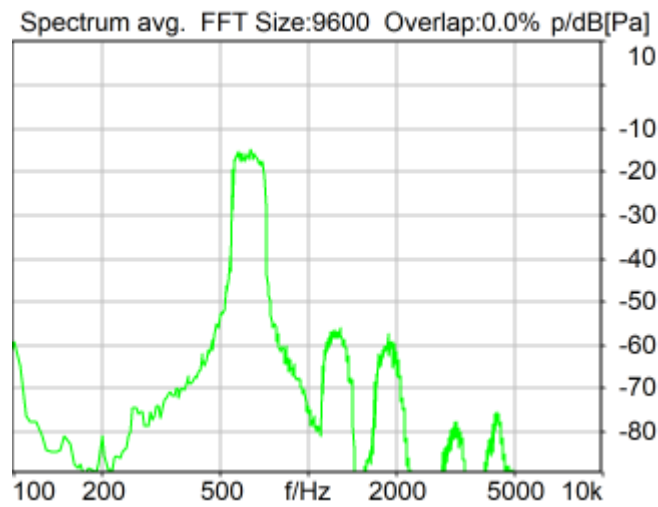
Distortion (Noise) RCV (packed): 33.21 dB (2.19%) Ok

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



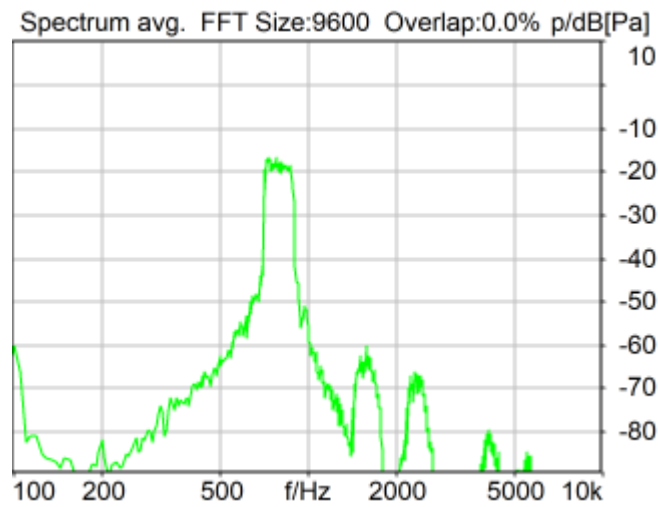
Distortion (Noise) RCV (packed): 35.44 dB (1.69%) Ok

Ok

24/08/14 11:38 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



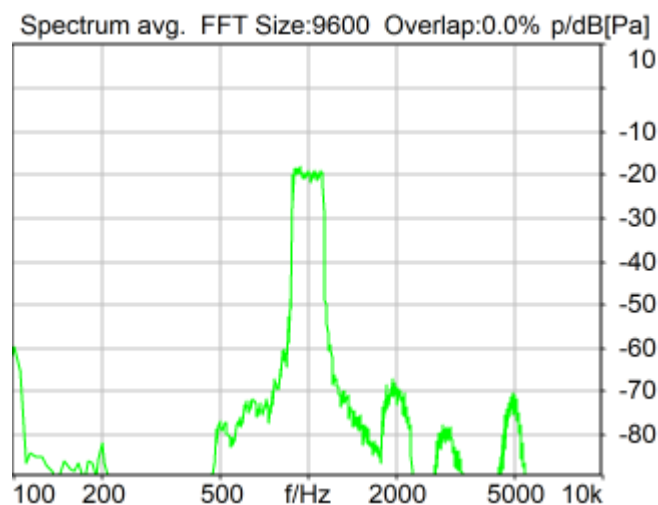
Distortion (Noise) RCV (packed): 34.00 dB (2.00%) Ok

Ok

24/08/14 11:39 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



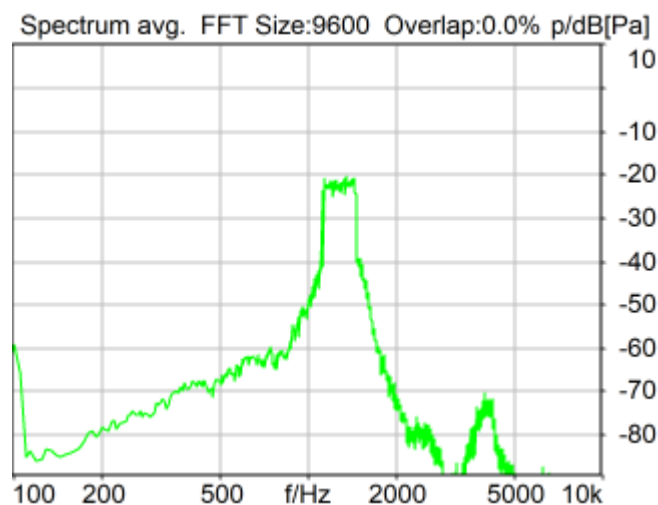
Distortion (Noise) RCV (packed): 41.26 dB (0.87%) Ok

Ok

24/08/14 11:39 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



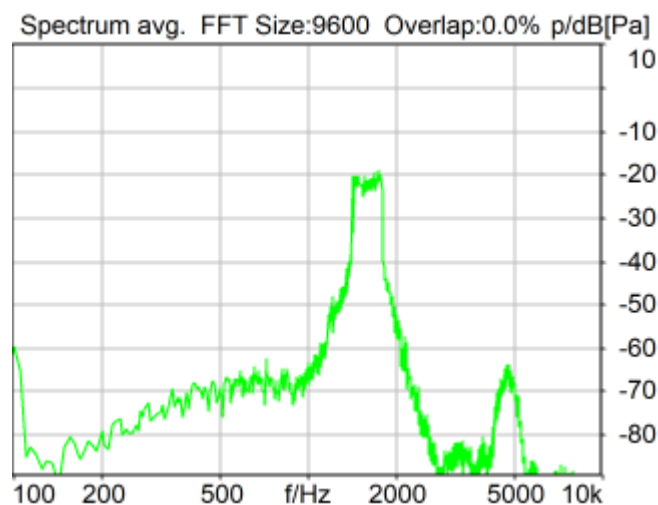
Distortion (Noise) RCV (packed): 21.32 dB (8.59%) Ok

Ok

24/08/14 11:40 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



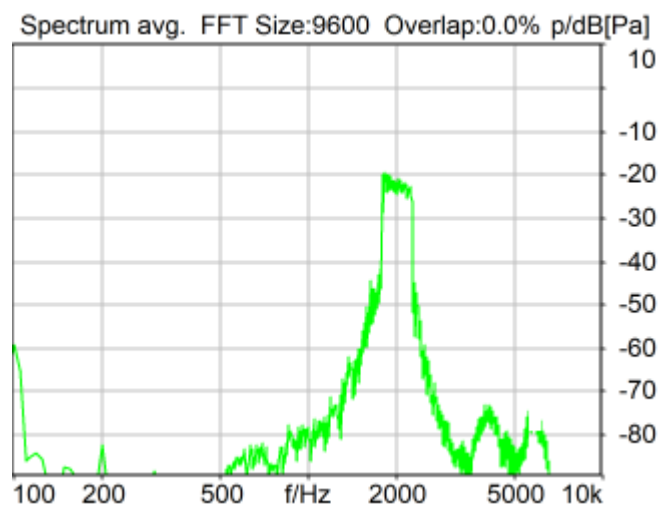
Distortion (Noise) RCV (packed): 25.13 dB (5.54%) Ok

Ok

24/08/14 11:40 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



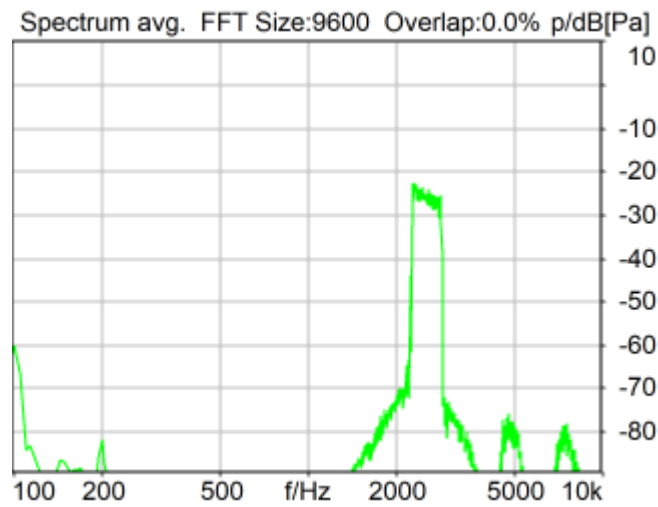
Distortion (Noise) RCV (packed): 27.48 dB (4.23%) Ok

Ok

24/08/14 11:41 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



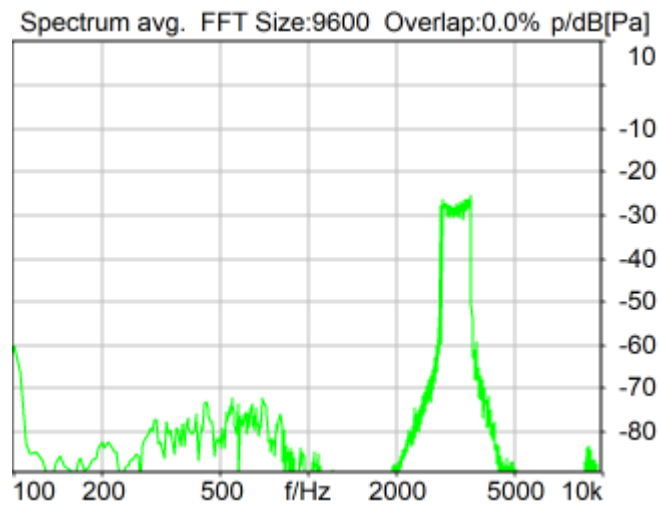
Distortion (Noise) RCV (packed): 43.80 dB (0.65%) Ok

Ok

24/08/14 11:41 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



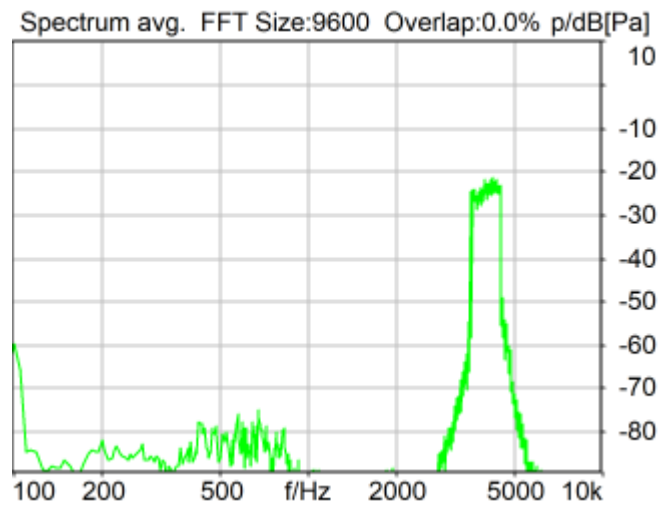
Distortion (Noise) RCV (packed): 35.07 dB (1.76%) Ok

Ok

24/08/14 11:41 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



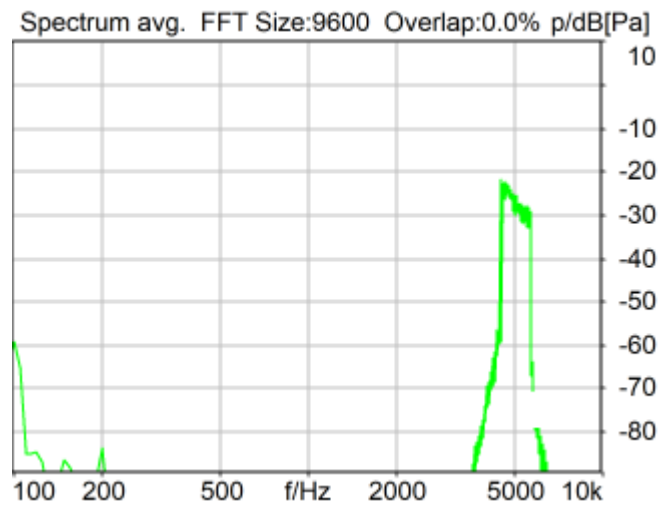
Distortion (Noise) RCV (packed): 35.35 dB (1.71%) Ok

Ok

24/08/14 11:42 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): 39.30 dB (1.08%) Ok

Ok

24/08/14 11:42 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	28.63 dB
2	315Hz	28.02 dB
3	400Hz	31.67 dB
4	500Hz	33.21 dB
5	630Hz	35.44 dB
6	800Hz	34.00 dB
7	1000Hz	41.26 dB
8	1250Hz	21.32 dB
9	1600Hz	25.13 dB
10	2000Hz	27.48 dB
11	2500Hz	43.80 dB
12	3150Hz	35.07 dB
13	4000Hz	35.35 dB
14	5000Hz	39.30 dB

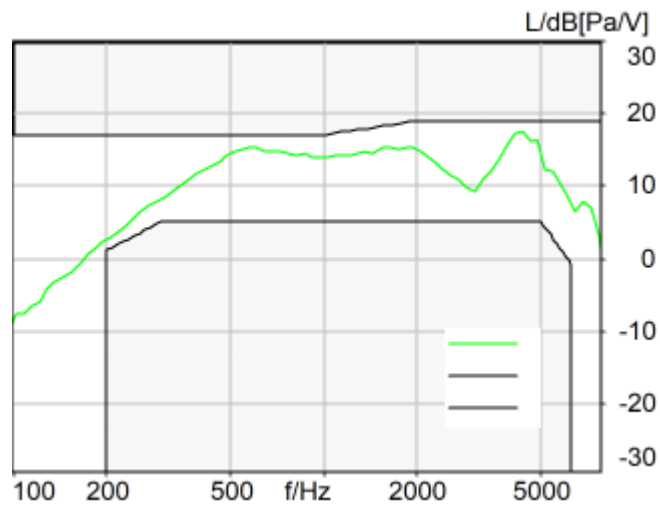
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.32dB at 1250Hz.

24/08/14 11:42 ACQUA

5.3 Frequency Response 2N FF

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



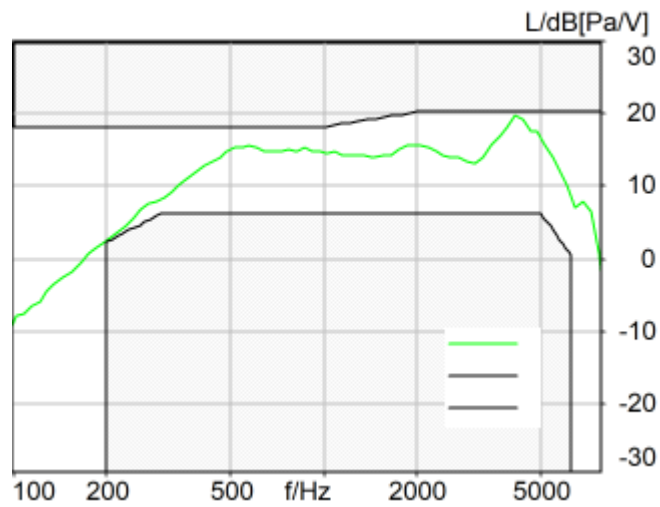
Absolute minimal distance
1.62 dB at 4369.4 Hz Ok

Ok

24/08/14 11:43 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.36 dB at 4119.5 Hz Ok

Ok

24/08/14 11:43 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24.4kbps_Ch6_8N
--------------------	---

Project	471902
Report Generation Date	24/08/15 16:45
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	112.6	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.17	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.78	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.71	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.61	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.40	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.39	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.01	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.30	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.37	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.43	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.36	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.13	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.09	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.69	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	35.87	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	21.37	WLAN2.4GHz_802.11b

ACQUA Report
4kbps_Ch6_8N

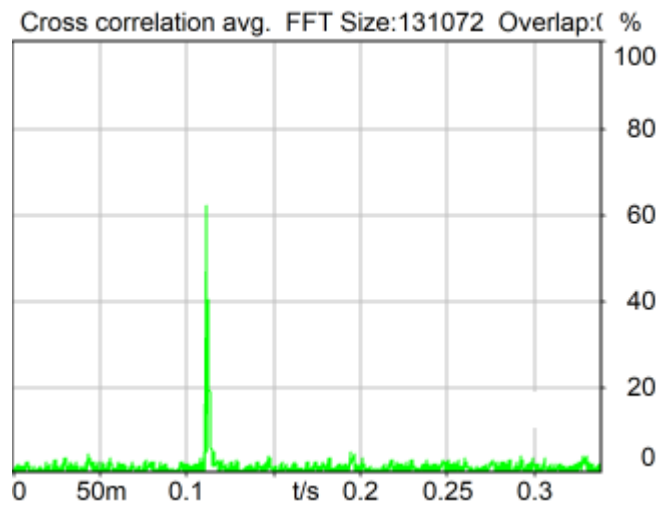
Title: WLAN2.4GHz_802.11b 1Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.48	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	1.84	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_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

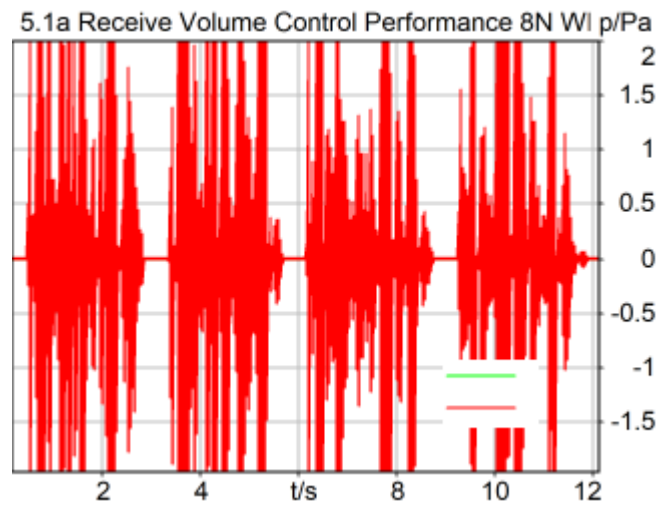


Delay (Cross): 112.6 ms

24/08/15 16:36 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



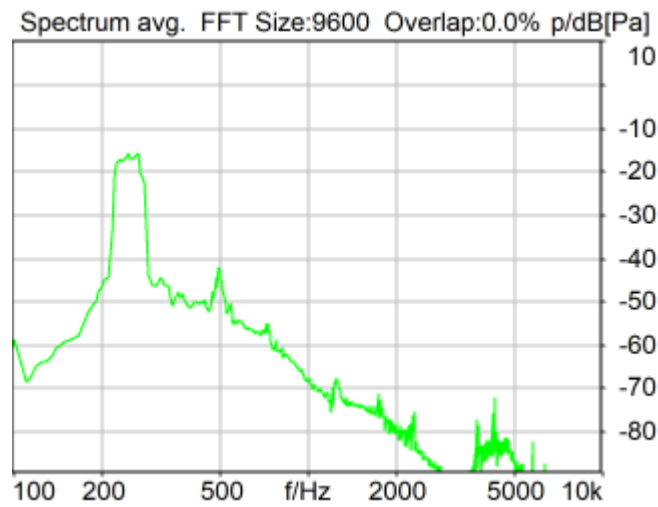
Speech Level RCV: 89.17 dB[SPL], Act.: 80.62% Ok

Ok

24/08/15 16:37 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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



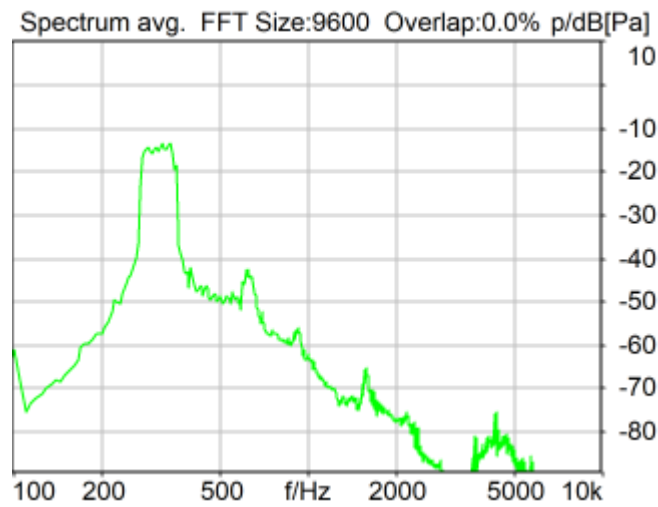
Distortion (Noise) RCV (packed): 27.78 dB (4.08%) Ok

Ok

24/08/15 16:37 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



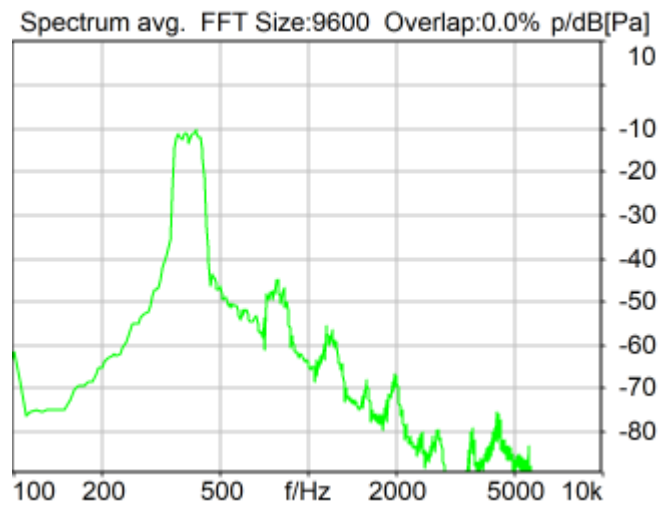
Distortion (Noise) RCV (packed): 28.71 dB (3.67%) Ok

Ok

24/08/15 16:38 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz WB

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



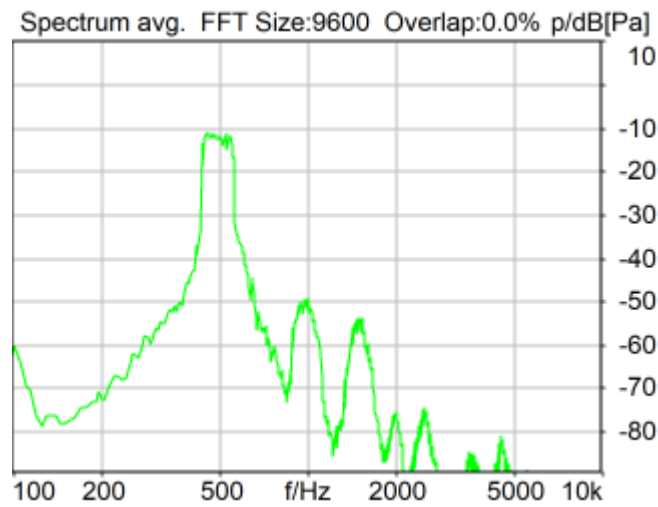
Distortion (Noise) RCV (packed): 32.61 dB (2.34%) Ok

Ok

24/08/15 16:38 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



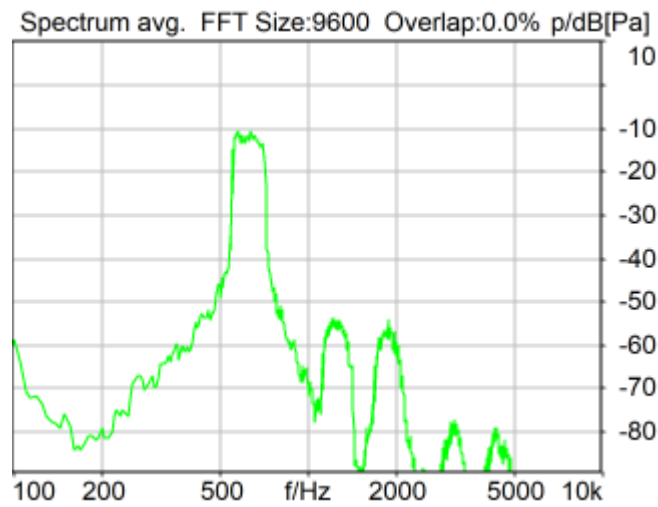
Distortion (Noise) RCV (packed): 32.40 dB (2.40%) Ok

Ok

24/08/15 16:39 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



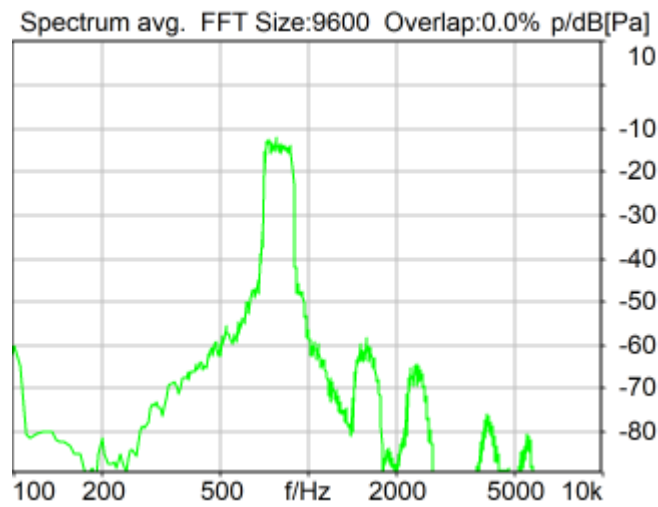
Distortion (Noise) RCV (packed): 35.39 dB (1.70%) Ok

Ok

24/08/15 16:39 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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



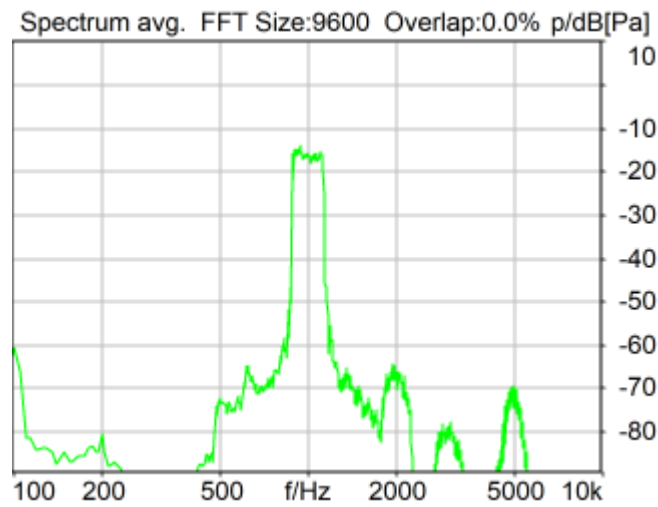
Distortion (Noise) RCV (packed): 36.01 dB (1.58%) Ok

Ok

24/08/15 16:39 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



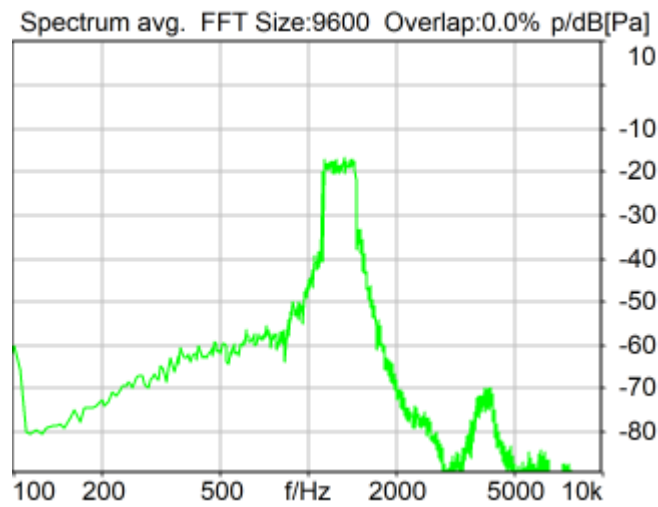
Distortion (Noise) RCV (packed): 42.30 dB (0.77%) Ok

Ok

24/08/15 16:40 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



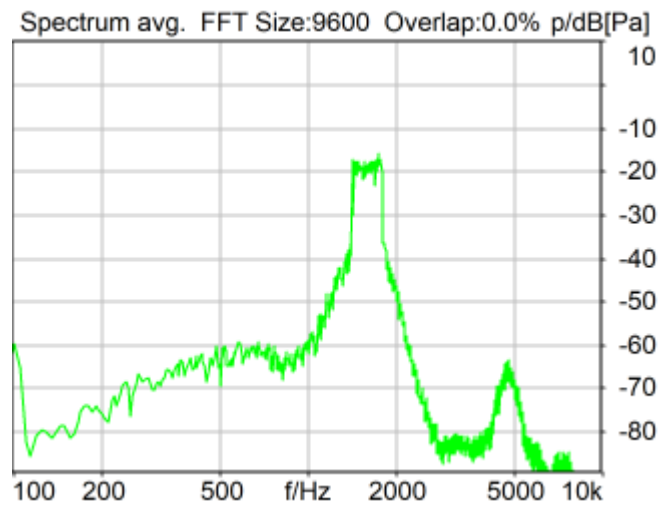
Distortion (Noise) RCV (packed): 21.37 dB (8.54%) Ok

Ok

24/08/15 16:40 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



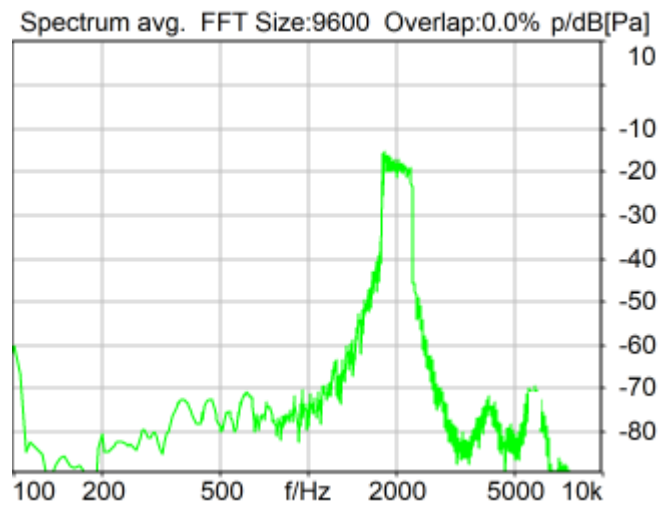
Distortion (Noise) RCV (packed): 23.43 dB (6.74%) Ok

Ok

24/08/15 16:41 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



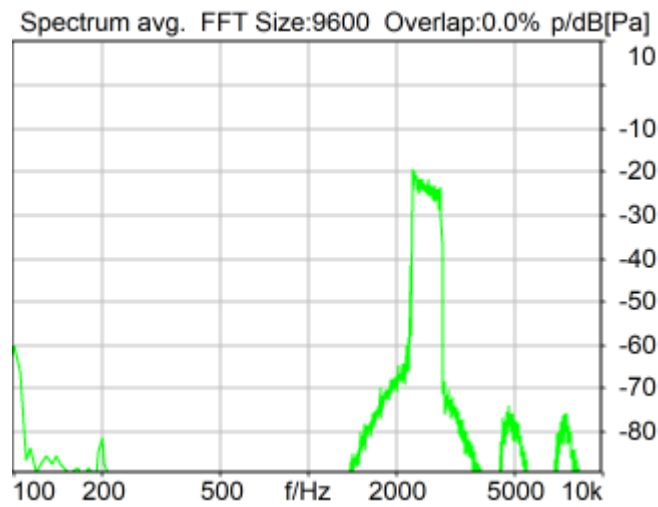
Distortion (Noise) RCV (packed): 28.36 dB (3.82%) Ok

Ok

24/08/15 16:41 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



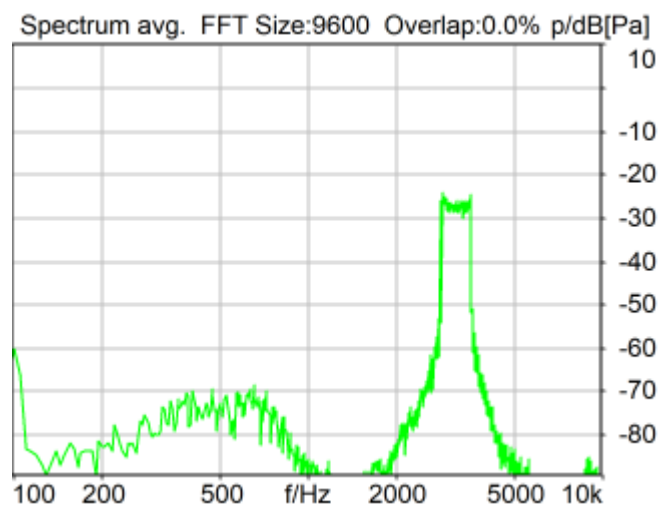
Distortion (Noise) RCV (packed): 42.13 dB (0.78%) Ok

Ok

24/08/15 16:42 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



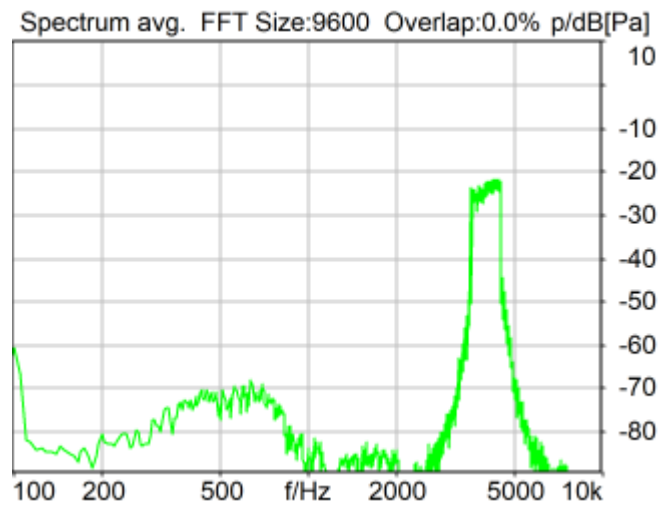
Distortion (Noise) RCV (packed): 34.09 dB (1.97%) Ok

Ok

24/08/15 16:42 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



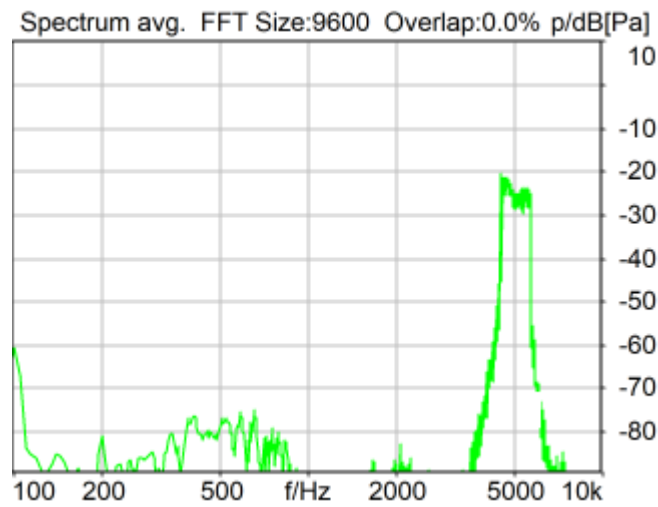
Distortion (Noise) RCV (packed): 29.69 dB (3.28%) Ok

Ok

24/08/15 16:43 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 35.87 dB (1.61%) Ok

Ok

24/08/15 16:43 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	27.78 dB
2	315Hz	28.71 dB
3	400Hz	32.61 dB
4	500Hz	32.40 dB
5	630Hz	35.39 dB
6	800Hz	36.01 dB
7	1000Hz	42.30 dB
8	1250Hz	21.37 dB
9	1600Hz	23.43 dB
10	2000Hz	28.36 dB
11	2500Hz	42.13 dB
12	3150Hz	34.09 dB
13	4000Hz	29.69 dB
14	5000Hz	35.87 dB

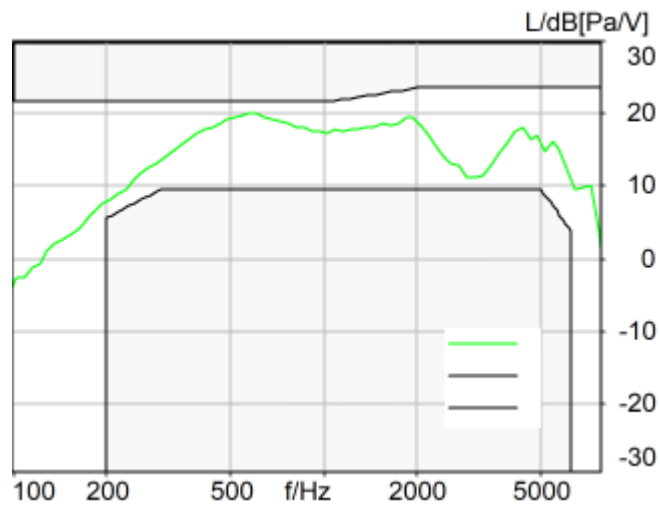
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.37dB at 1250Hz.

24/08/15 16:43 ACQUA

5.3 Frequency Response 8N FF

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



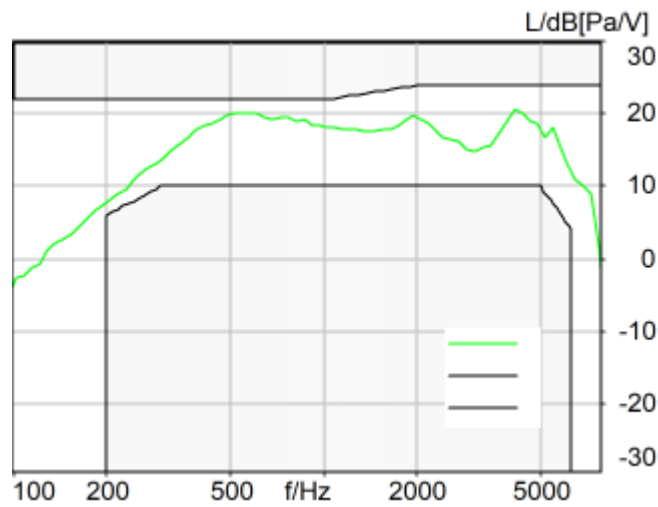
Absolute minimal distance
1.48 dB at 611.7 Hz Ok

Ok

24/08/15 16:43 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.84 dB at 576.7 Hz Ok

Ok

24/08/15 16:44 ACQUA 5.1.200

Measurement Protocol

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

Project	471902
Report Generation Date	24/08/13 15:24
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	172.6	GSM1900_GSM Voice_AMR NB 4. 75kbps_Ch661_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.93	GSM1900_GSM Voice_AMR NB 4. 75kbps_Ch661_2N

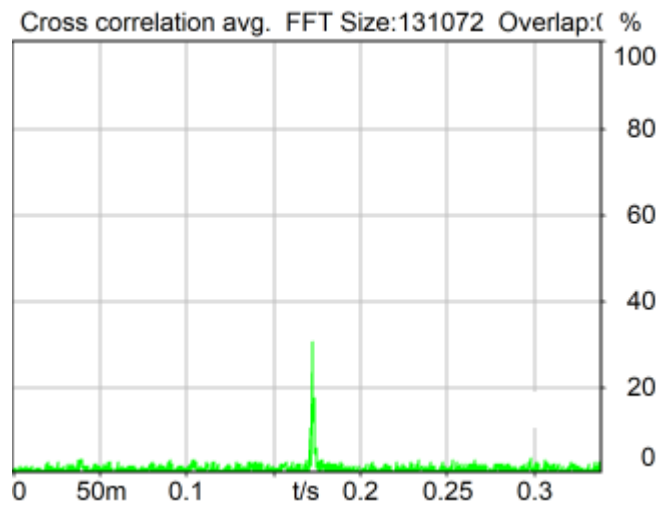
ACQUA Report
75kbps_Ch661_2N

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

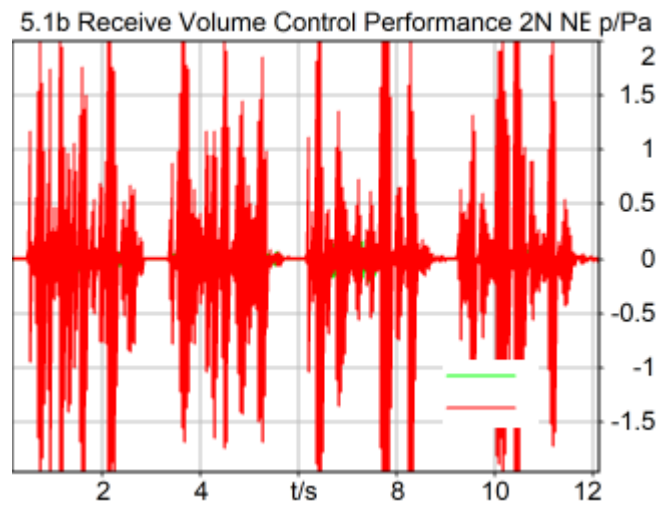


Delay (Cross): 172.6 ms

24/08/13 15:23 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 83.93 dB[SPL], Act.: 79.62% Ok

Ok

24/08/13 15:24 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR NB 4.75kbps_Ch9400_2N
--------------------	--

Project	471902
Report Generation Date	24/08/13 16:15
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	167.8	WCDMA II_Voice_AMR NB 4. 75kbps_Ch9400_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.37	WCDMA II_Voice_AMR NB 4. 75kbps_Ch9400_2N

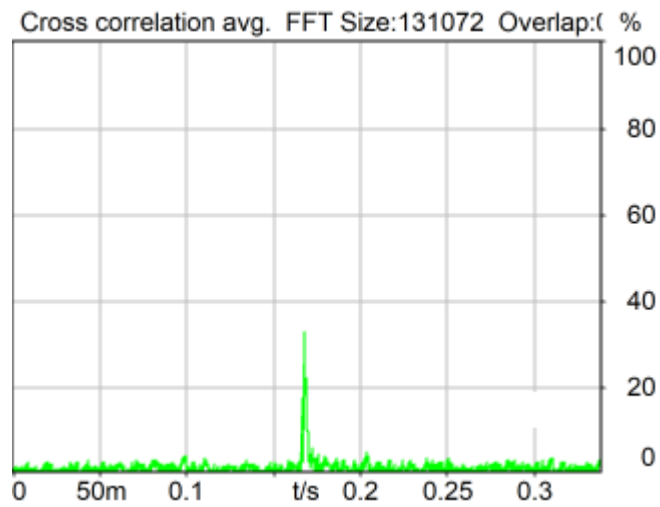
ACQUA Report
75kbps_Ch9400_2N

Title: WCDMA II_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

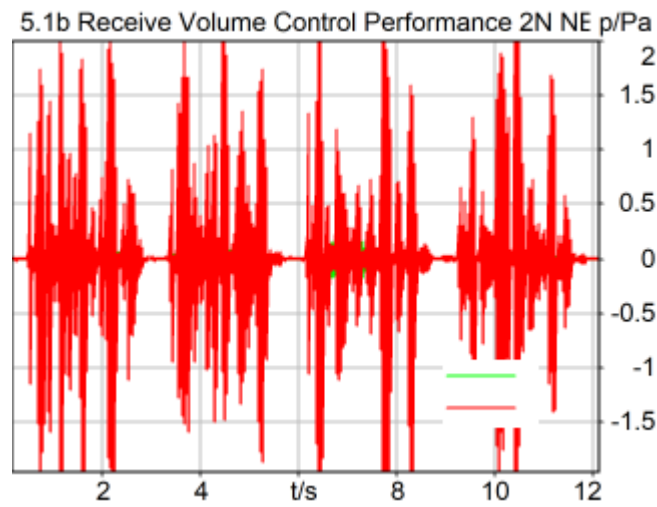


Delay (Cross): 167.8 ms

24/08/13 16:14 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



Speech Level RCV: 83.37 dB[SPL], Act.: 80.23% Ok

Ok

24/08/13 16:14 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR NB 4.75kbps_Ch9400_8N
--------------------	--

Project	471902
Report Generation Date	24/08/13 16:21
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	167.8	WCDMA II_Voice_AMR NB 4. 75kbps_Ch9400_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	87.65	WCDMA II_Voice_AMR NB 4. 75kbps_Ch9400_8N

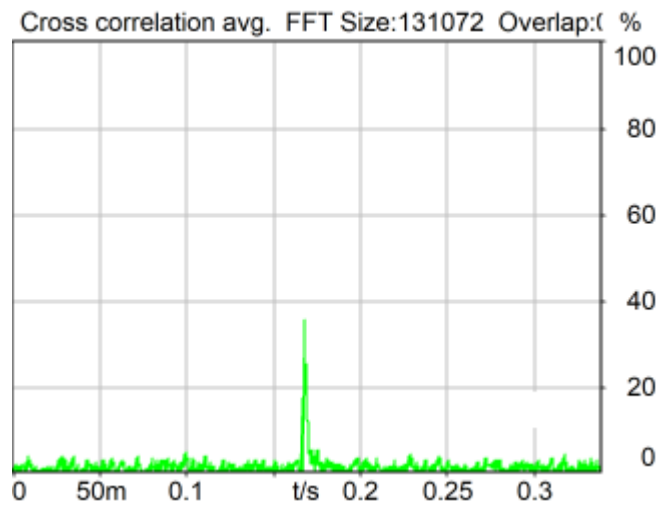
ACQUA Report
75kbps_Ch9400_8N

Title: WCDMA II_Voice_AMR NB 4.

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

Overall Receive Delay NB

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

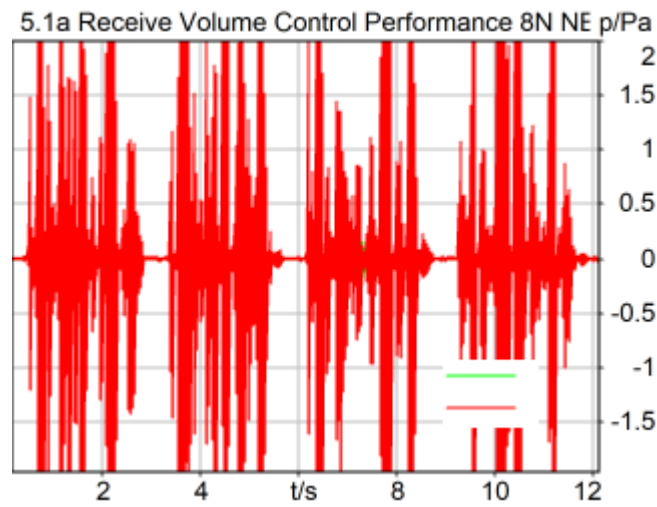


Delay (Cross): 167.8 ms

24/08/13 16:21 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



Speech Level RCV: 87.65 dB[SPL], Act.: 80.47% Ok

Ok

24/08/13 16:21 ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N
--------------------	--

Project	471902
Report Generation Date	24/08/12 15:42
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	111.4	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.54	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.08	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.07	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.90	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.64	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.31	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.38	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.60	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.62	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.39	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.03	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.64	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.60	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.57	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.03	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	28.08	LTE Band

ACQUA Report

Title: LTE Band

66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N

and Noise (Conversational Gain)		, (occured at 250Hz)		66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.90	LTE Band 66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.20	LTE Band 66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N

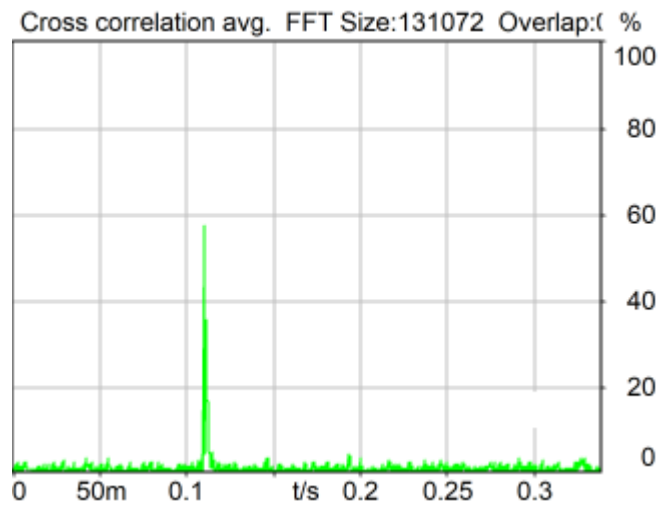
ACQUA Report
66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N

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

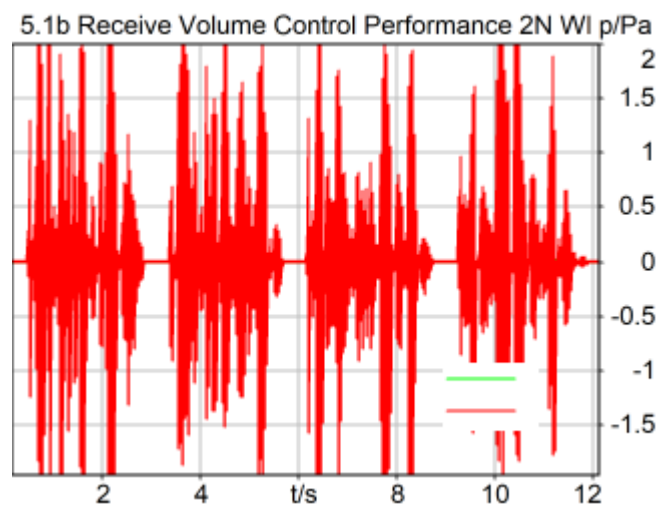


Delay (Cross): 111.4 ms

24/08/12 15:33 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



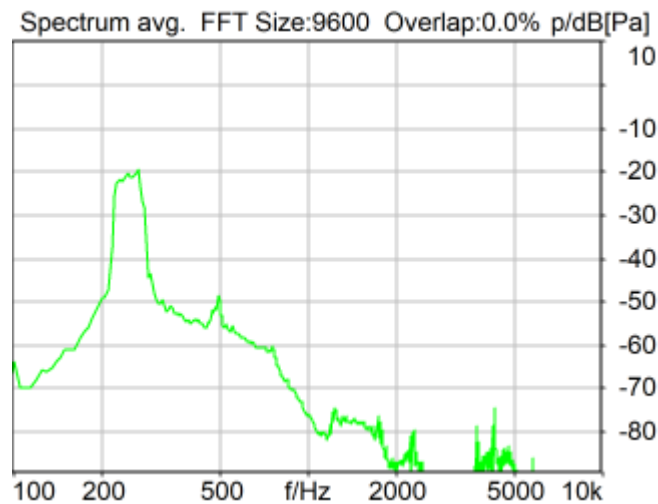
Speech Level RCV: 84.54 dB[SPL], Act.: 82.28% Ok

Ok

24/08/12 15:34 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



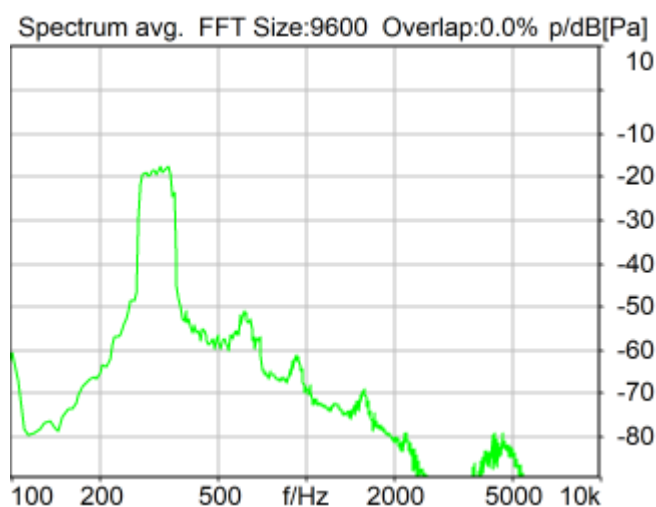
Distortion (Noise) RCV (packed): 28.08 dB (3.94%) Ok

Ok

24/08/12 15:34 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



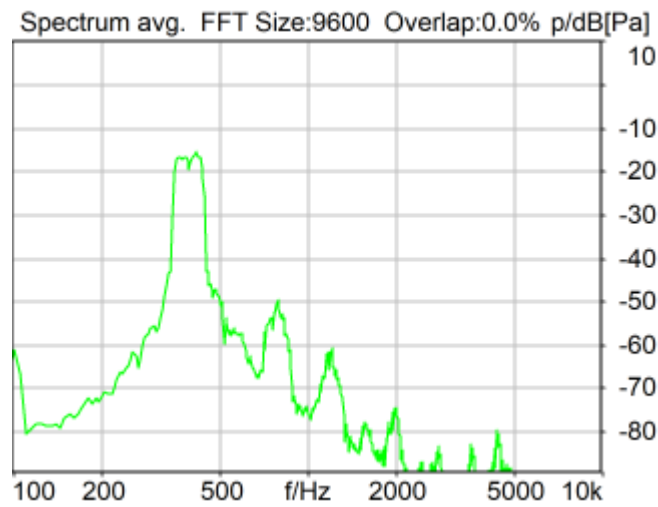
Distortion (Noise) RCV (packed): 32.07 dB (2.49%) Ok

Ok

24/08/12 15:35 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



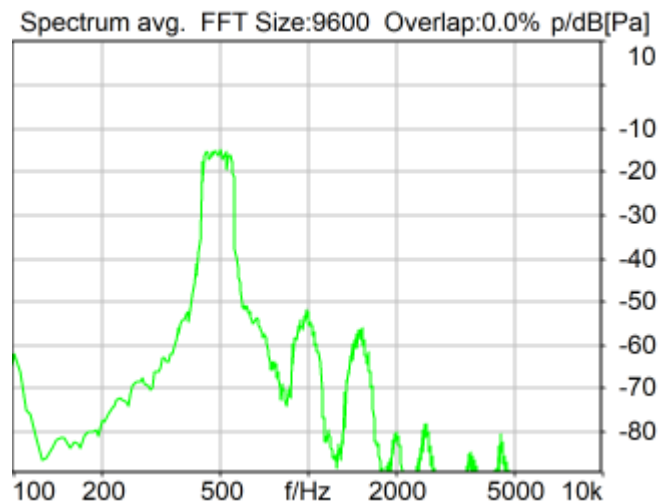
Distortion (Noise) RCV (packed): 32.90 dB (2.27%) Ok

Ok

24/08/12 15:35 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



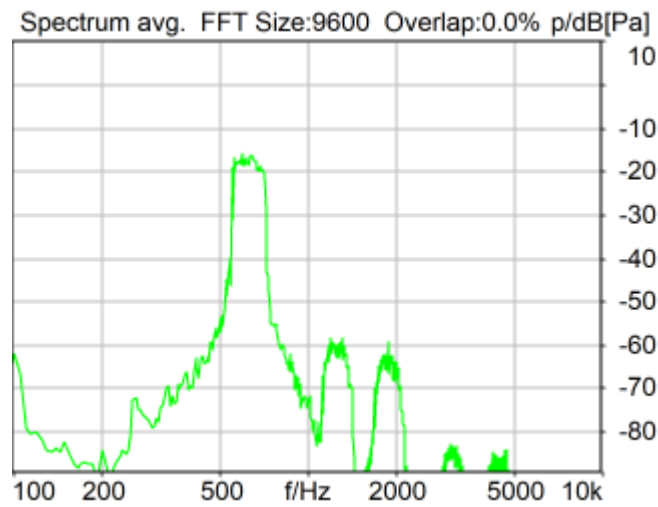
Distortion (Noise) RCV (packed): 33.64 dB (2.08%) Ok

Ok

24/08/12 15:36 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



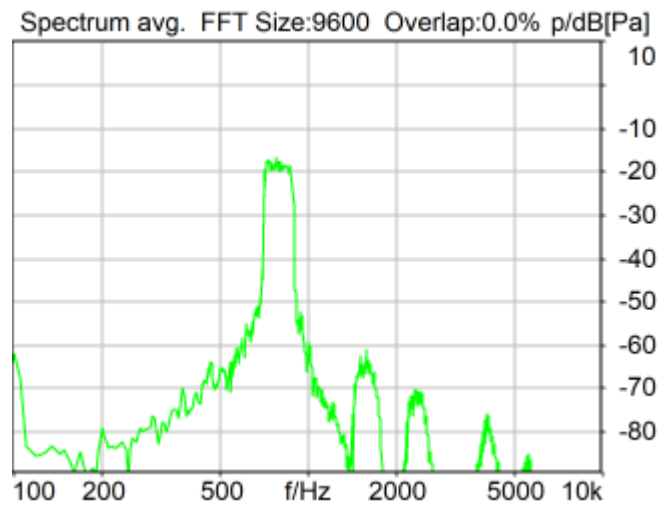
Distortion (Noise) RCV (packed): 36.31 dB (1.53%) Ok

Ok

24/08/12 15:36 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



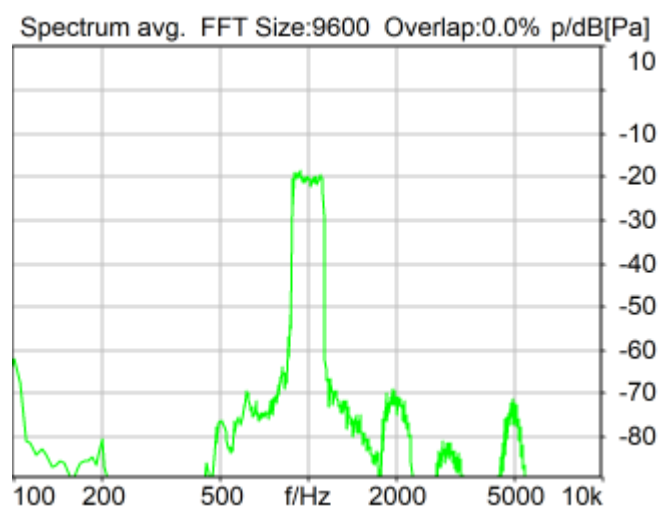
Distortion (Noise) RCV (packed): 37.38 dB (1.35%) Ok

Ok

24/08/12 15:37 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



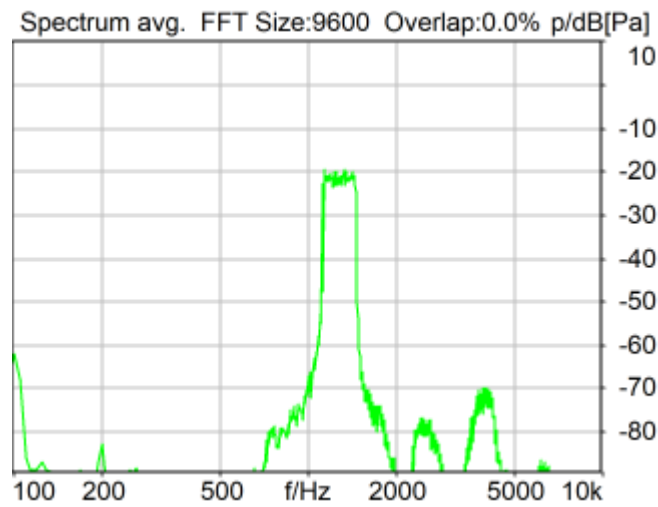
Distortion (Noise) RCV (packed): 43.60 dB (0.66%) Ok

Ok

24/08/12 15:37 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



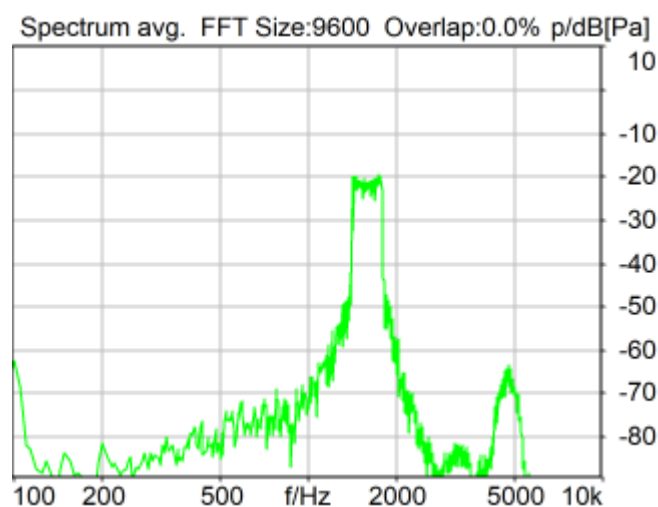
Distortion (Noise) RCV (packed): 33.62 dB (2.09%) Ok

Ok

24/08/12 15:38 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



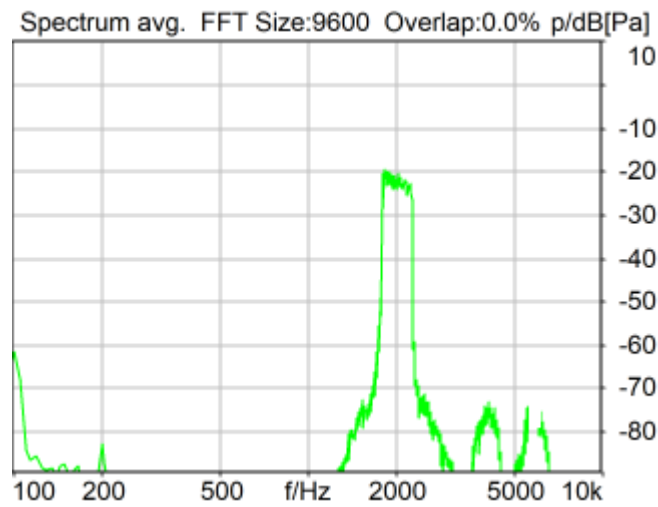
Distortion (Noise) RCV (packed): 30.39 dB (3.02%) Ok

Ok

24/08/12 15:38 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



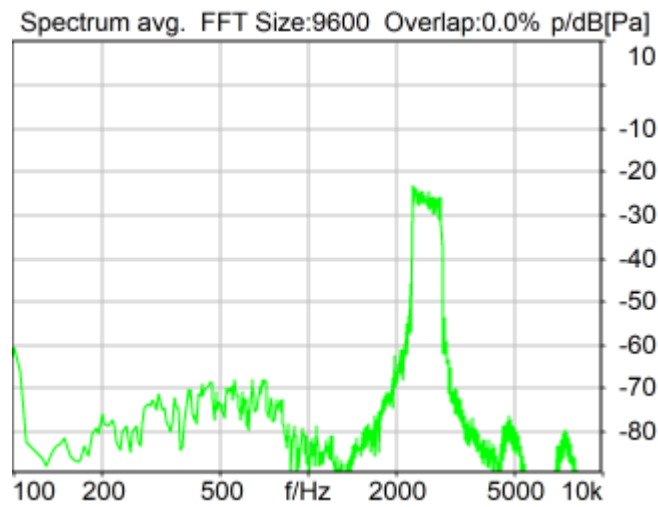
Distortion (Noise) RCV (packed): 43.03 dB (0.71%) Ok

Ok

24/08/12 15:38 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



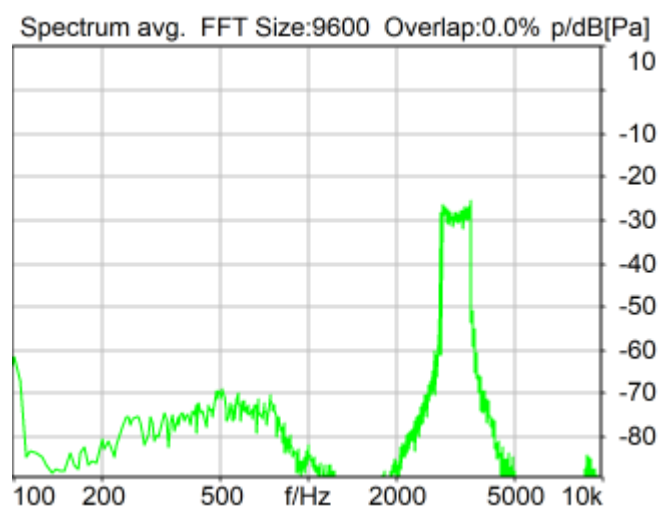
Distortion (Noise) RCV (packed): 33.64 dB (2.08%) Ok

Ok

24/08/12 15:39 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



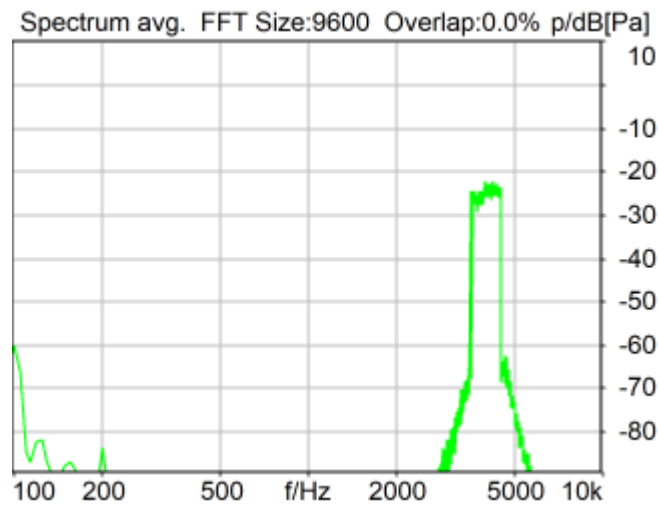
Distortion (Noise) RCV (packed): 33.60 dB (2.09%) Ok

Ok

24/08/12 15:39 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



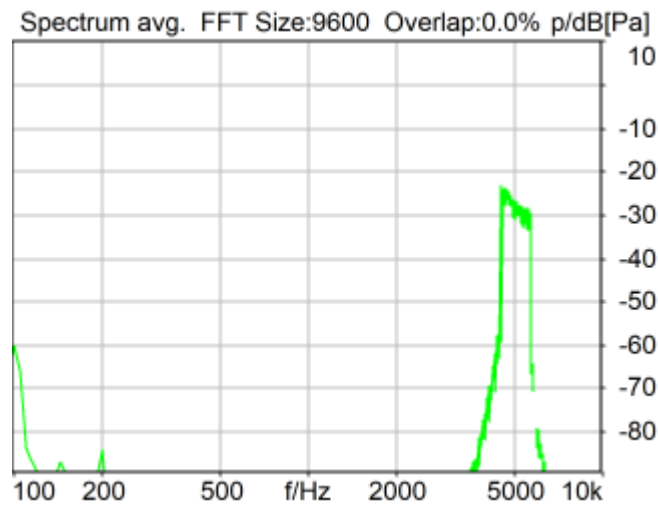
Distortion (Noise) RCV (packed): 43.57 dB (0.66%) Ok

Ok

24/08/12 15:40 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): 39.03 dB (1.12%) Ok

Ok

24/08/12 15:40 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	28.08 dB
2	315Hz	32.07 dB
3	400Hz	32.90 dB
4	500Hz	33.64 dB
5	630Hz	36.31 dB
6	800Hz	37.38 dB
7	1000Hz	43.60 dB
8	1250Hz	33.62 dB
9	1600Hz	30.39 dB
10	2000Hz	43.03 dB
11	2500Hz	33.64 dB
12	3150Hz	33.60 dB
13	4000Hz	43.57 dB
14	5000Hz	39.03 dB

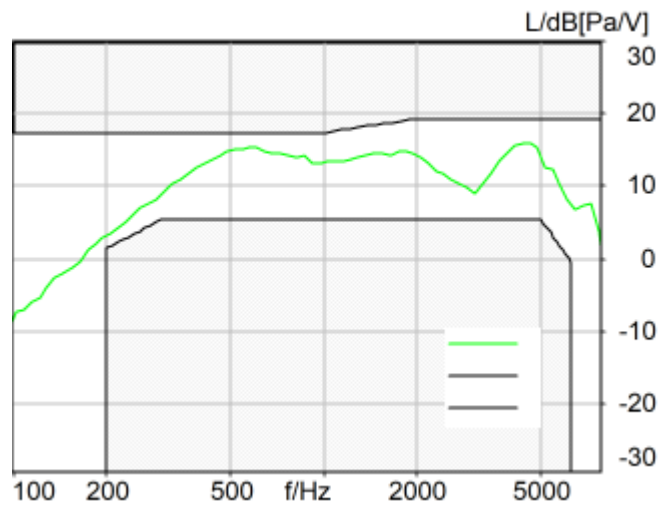
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 28.08dB at 250Hz.

24/08/12 15:40 ACQUA

5.3 Frequency Response 2N FF

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



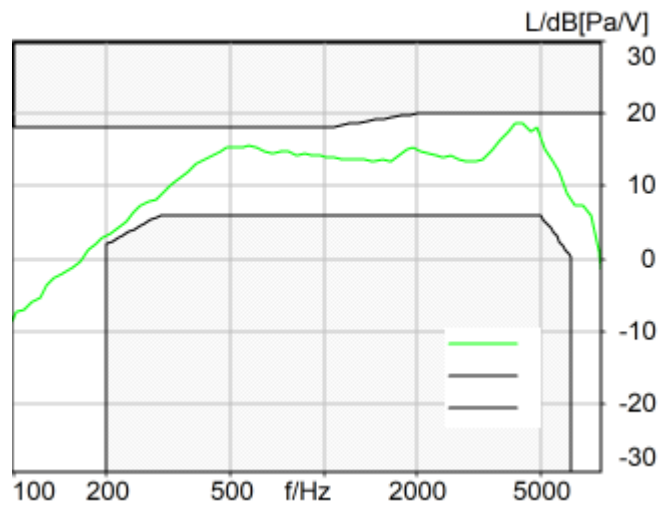
Absolute minimal distance
1.90 dB at 611.7 Hz Ok

Ok

24/08/12 15:41 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.20 dB at 4369.4 Hz Ok

Ok

24/08/12 15:41 ACQUA 5.1.200

ACQUA Report
WB 24.4kbps_Ch349000_2N

Title: 08_FR1 n66_40M_QPSK_1RB_1Offset_EVS

Measurement Protocol

Measurement Object	FR1 n66_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch349000_2N
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Project	471902
Report Generation Date	24/08/14 14:09
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	111.4	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.15	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.59	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.05	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.99	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.22	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.02	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.78	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.18	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.52	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.05	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.74	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.95	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.80	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.63	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.72	FR1 n66_40M_QPSK_1RB_1Offset_E VS WB 24.4kbps_Ch349000_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	23.52	FR1

ACQUA Report
WB 24.4kbps_Ch349000_2N

Title: FR1 n66_40M_QPSK_1RB_1Offset_EVS

and Noise (Conversational Gain)		(occured at 1250Hz)		n66_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch349000_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 576.7 Hz	2.19	FR1 n66_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch349000_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	1.07	FR1 n66_40M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch349000_2N

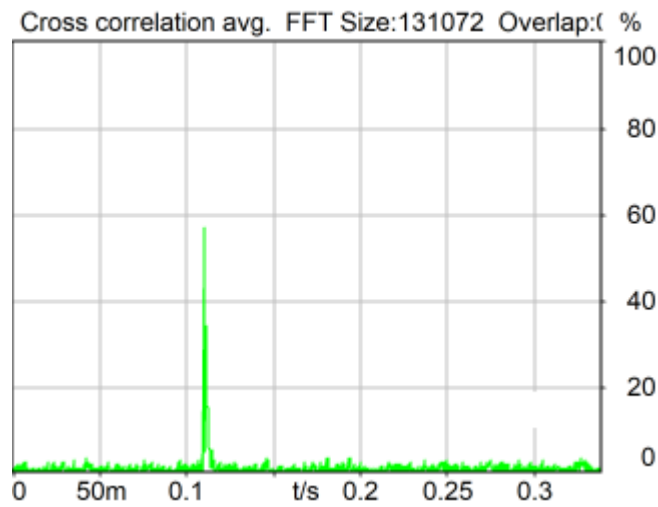
ACQUA Report
WB 24.4kbps_Ch349000_2N

Title: FR1 n66_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

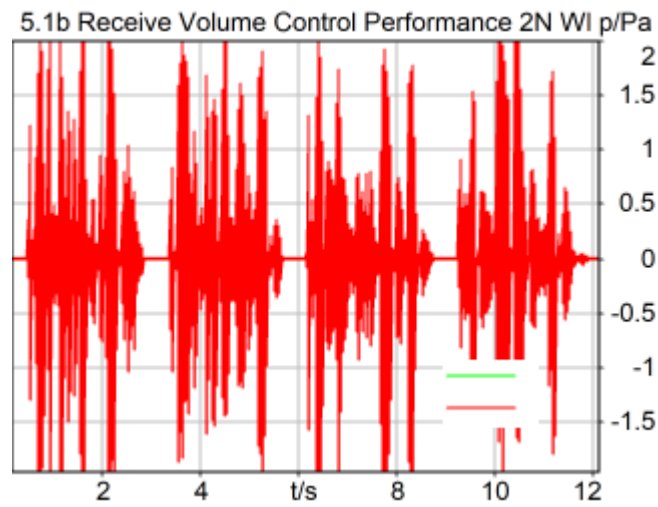


Delay (Cross): 111.4 ms

24/08/14 14:00 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



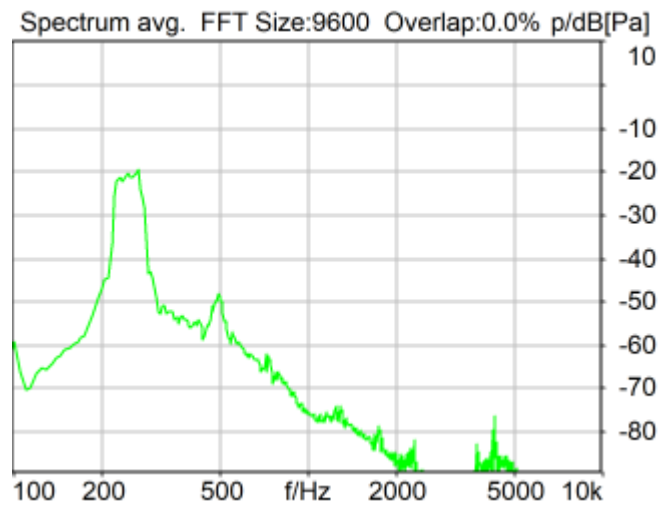
Speech Level RCV: 84.15 dB[SPL], Act.: 82.30% Ok

Ok

24/08/14 14:01 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



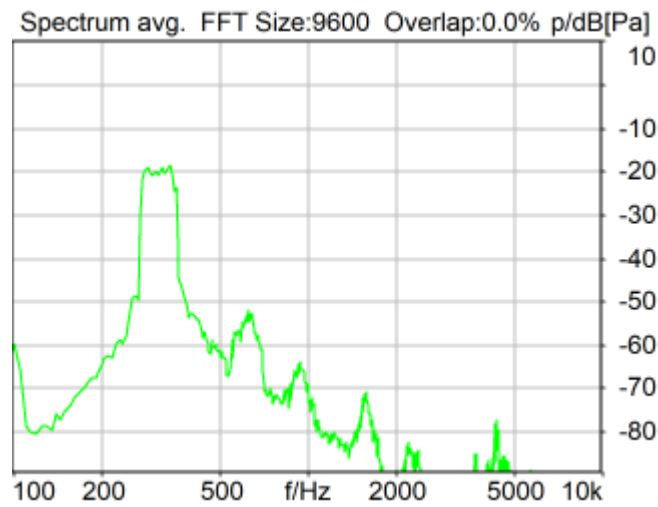
Distortion (Noise) RCV (packed): 28.59 dB (3.72%) Ok

Ok

24/08/14 14:01 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



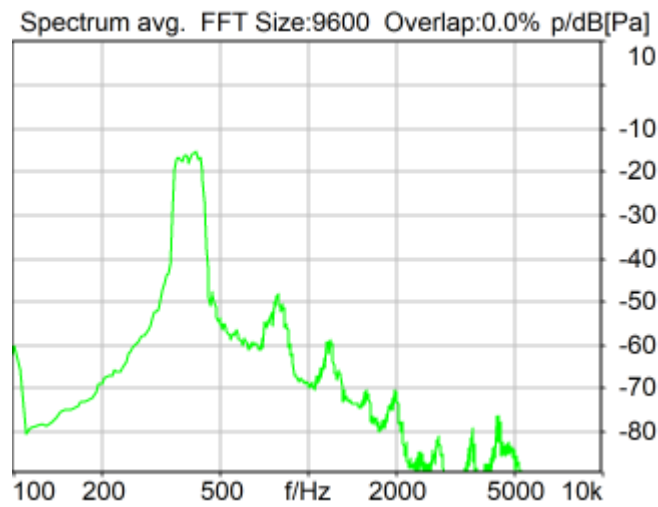
Distortion (Noise) RCV (packed): 33.05 dB (2.23%) Ok

Ok

24/08/14 14:02 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 2N



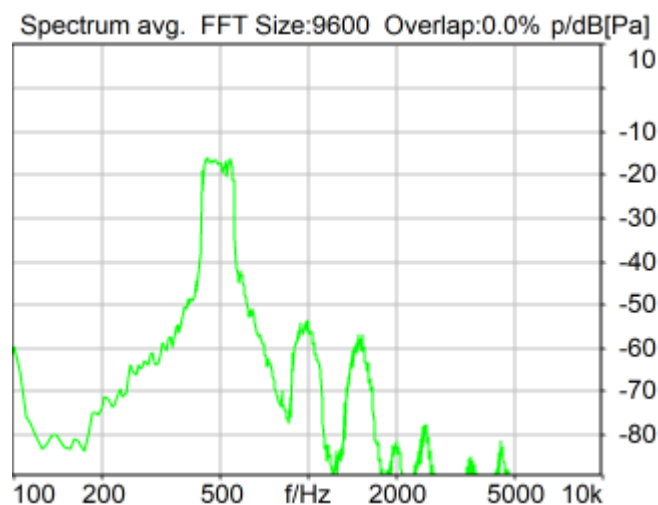
Distortion (Noise) RCV (packed): 31.99 dB (2.51%) Ok

Ok

24/08/14 14:02 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



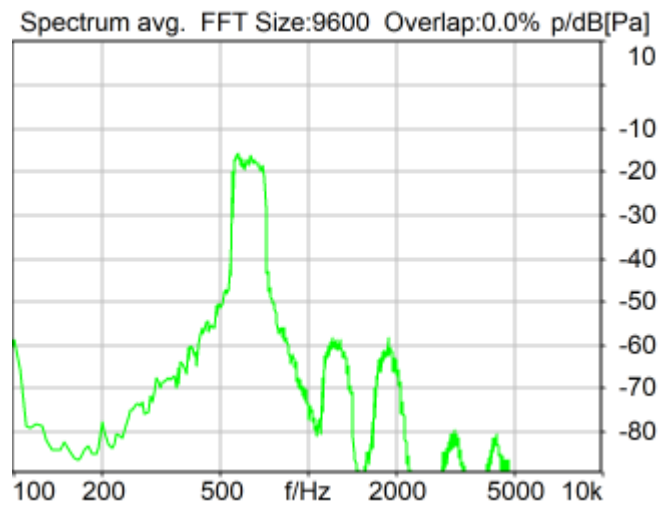
Distortion (Noise) RCV (packed): 32.22 dB (2.45%) Ok

Ok

24/08/14 14:02 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



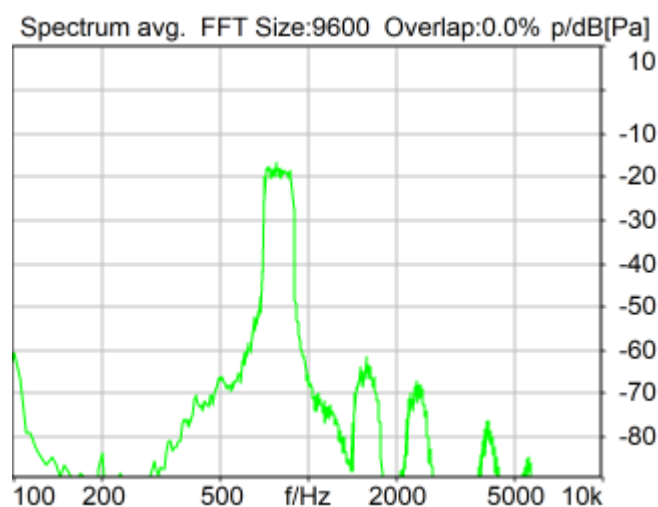
Distortion (Noise) RCV (packed): 34.02 dB (1.99%) Ok

Ok

24/08/14 14:03 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



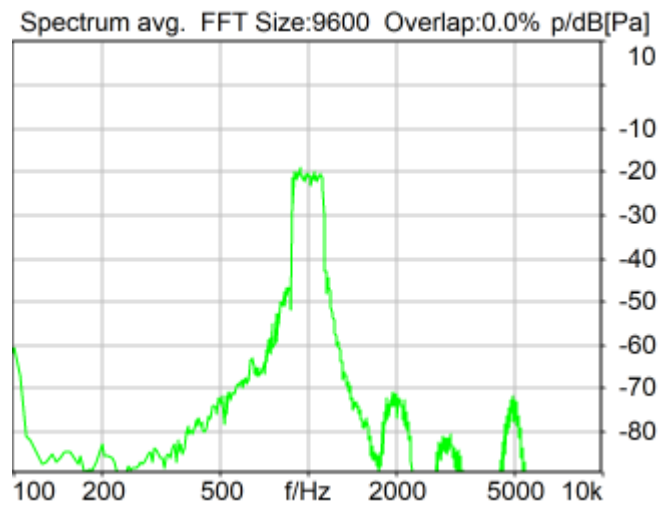
Distortion (Noise) RCV (packed): 38.78 dB (1.15%) Ok

Ok

24/08/14 14:03 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 2N



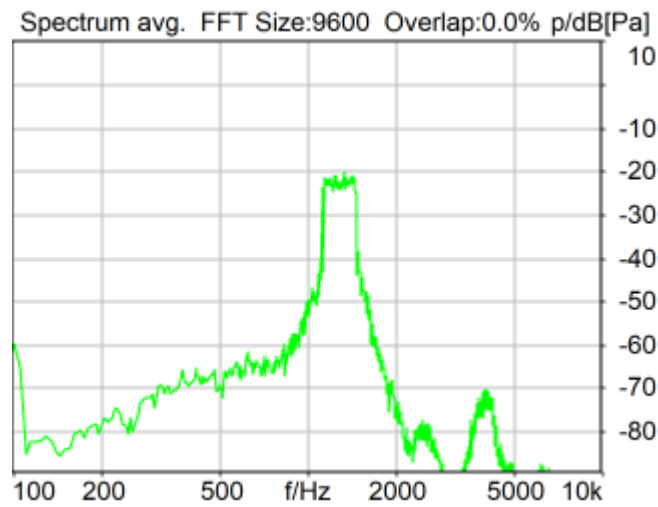
Distortion (Noise) RCV (packed): 30.18 dB (3.10%) Ok

Ok

24/08/14 14:04 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 2N



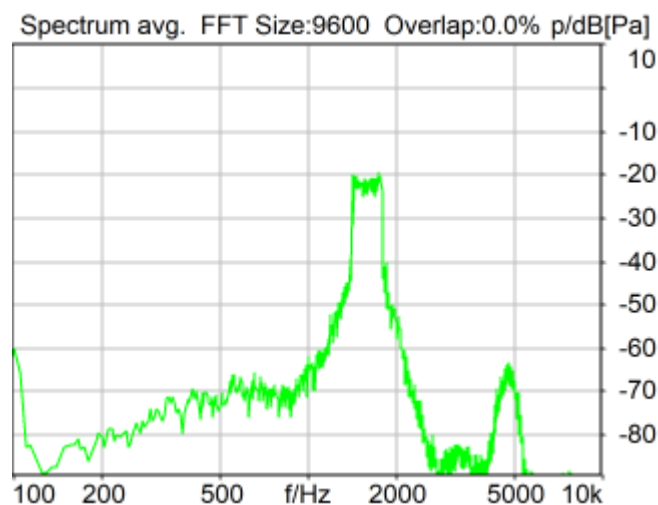
Distortion (Noise) RCV (packed): 23.52 dB (6.67%) Ok

Ok

24/08/14 14:04 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 2N



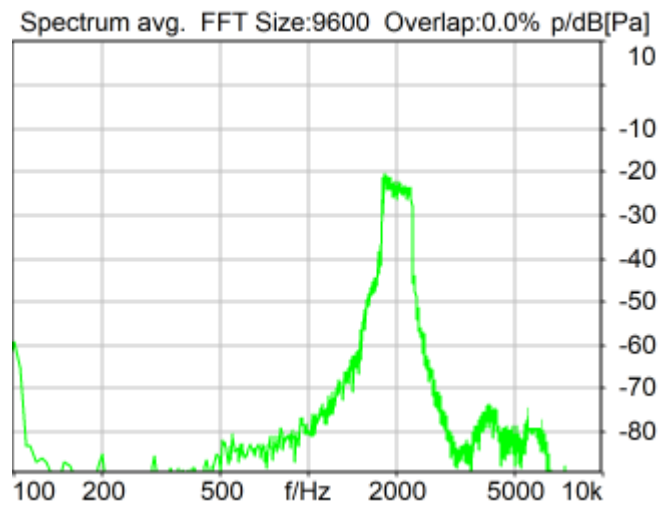
Distortion (Noise) RCV (packed): 26.05 dB (4.98%) Ok

Ok

24/08/14 14:05 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 2N



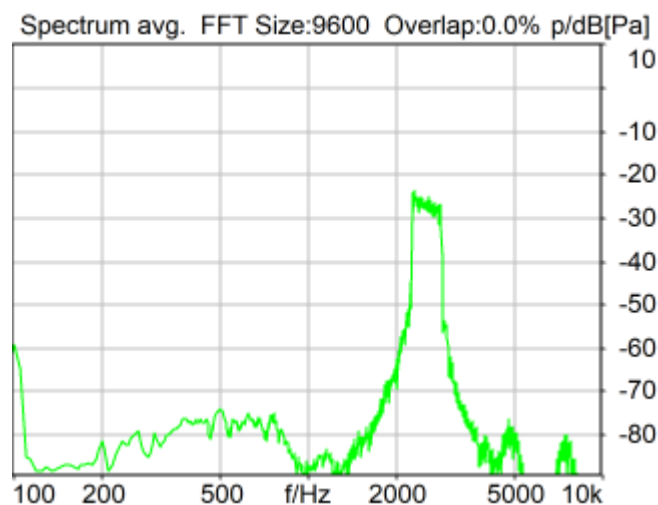
Distortion (Noise) RCV (packed): 23.74 dB (6.50%) Ok

Ok

24/08/14 14:05 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 2N



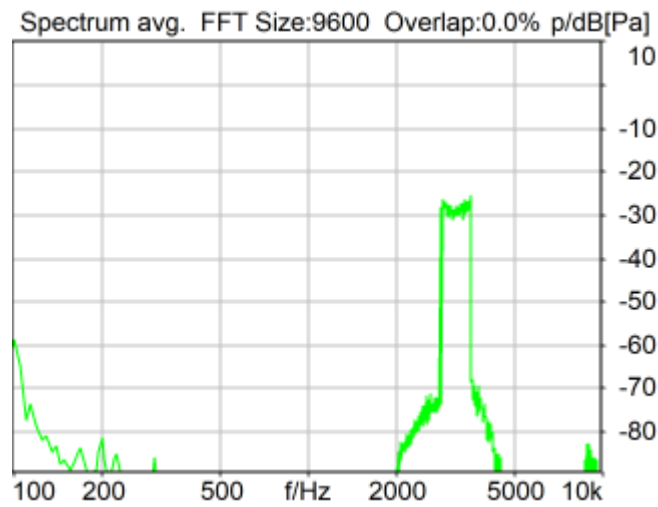
Distortion (Noise) RCV (packed): 29.95 dB (3.18%) Ok

Ok

24/08/14 14:06 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 2N



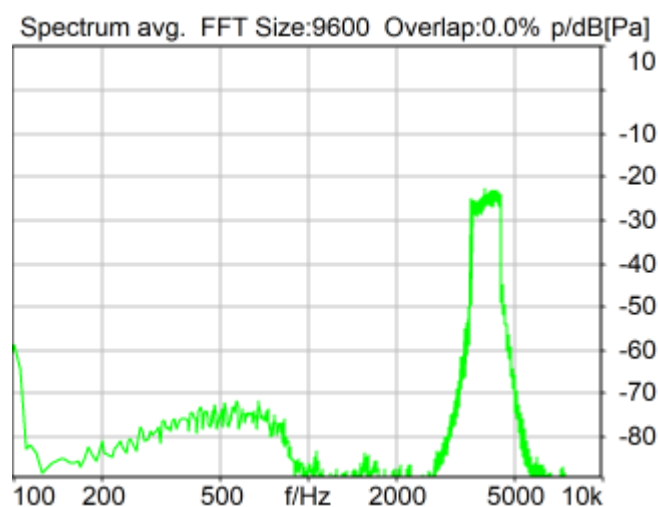
Distortion (Noise) RCV (packed): 42.80 dB (0.72%) Ok

Ok

24/08/14 14:06 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 2N



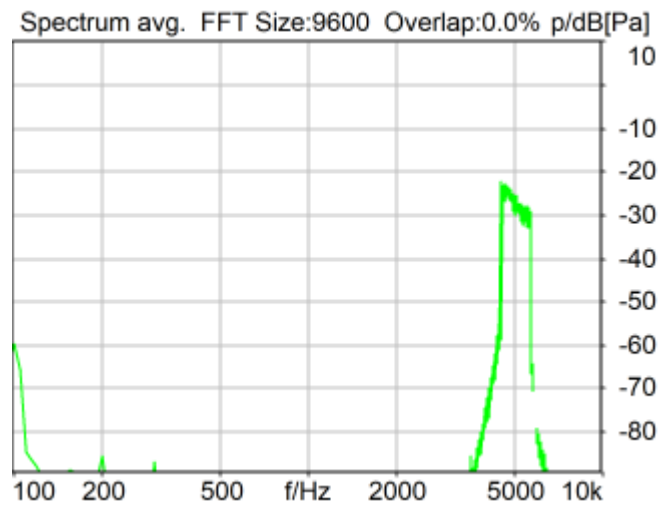
Distortion (Noise) RCV (packed): 28.63 dB (3.70%) Ok

Ok

24/08/14 14:07 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 2N



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

Ok

24/08/14 14:07 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	28.59 dB
2	315Hz	33.05 dB
3	400Hz	31.99 dB
4	500Hz	32.22 dB
5	630Hz	34.02 dB
6	800Hz	38.78 dB
7	1000Hz	30.18 dB
8	1250Hz	23.52 dB
9	1600Hz	26.05 dB
10	2000Hz	23.74 dB
11	2500Hz	29.95 dB
12	3150Hz	42.80 dB
13	4000Hz	28.63 dB
14	5000Hz	39.72 dB

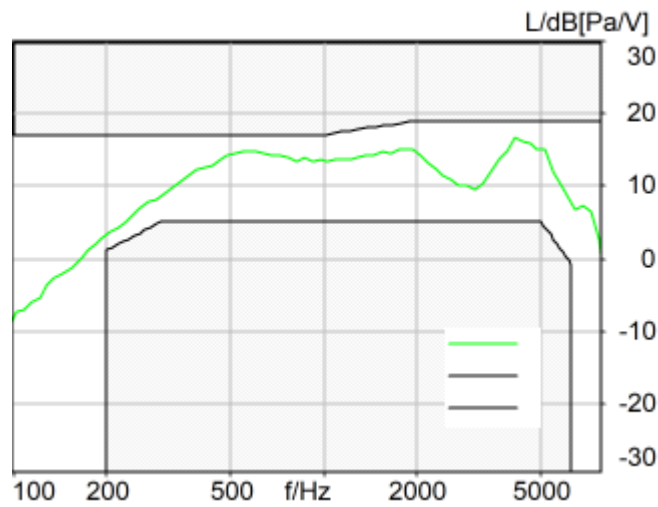
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 23.52dB at 1250Hz.

24/08/14 14:07 ACQUA

5.3 Frequency Response 2N FF

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



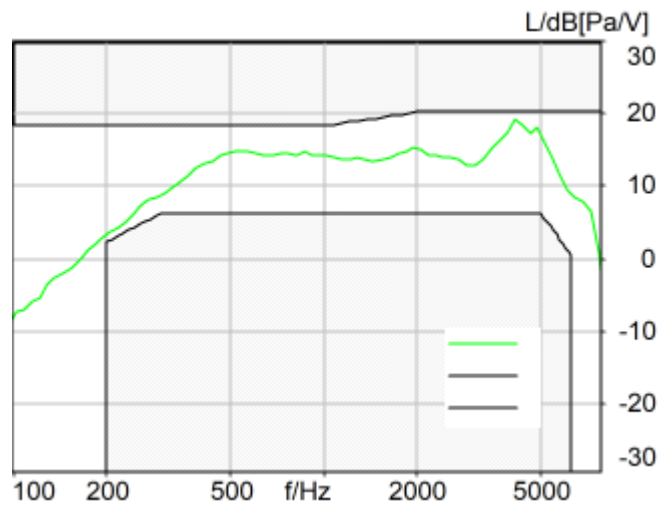
Absolute minimal distance
2.19 dB at 576.7 Hz Ok

Ok

24/08/14 14:07 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.07 dB at 4119.5 Hz Ok

Ok

24/08/14 14:08 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24.4kbps_Ch6_2N
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Project	471902
Report Generation Date	24/08/15 19:36
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	110.9	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	84.45	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.94	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.42	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.48	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.43	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.29	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.21	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.48	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.78	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.95	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.58	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.66	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.29	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.90	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.32	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	21.78	WLAN2.4GHz_802.11b

ACQUA Report
4kbps_Ch6_2N

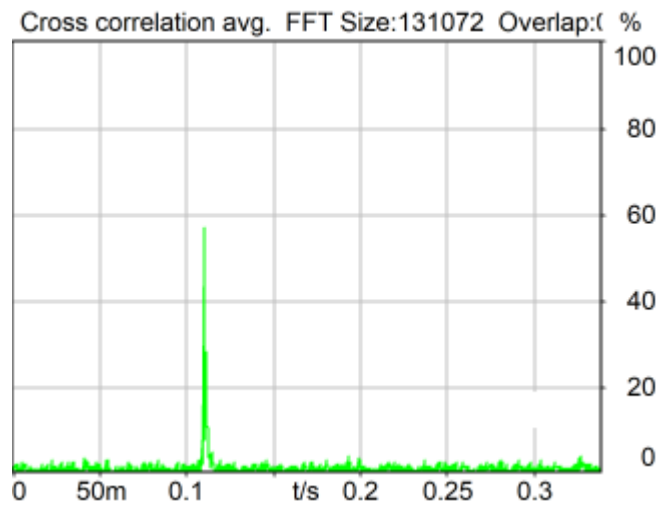
Title: WLAN2.4GHz_802.11b 1Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.94	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	1.51	WLAN2.4GHz_802.11b 1Mbps_EVS WB 24. 4kbps_Ch6_2N

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

Overall Receive Delay WB

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

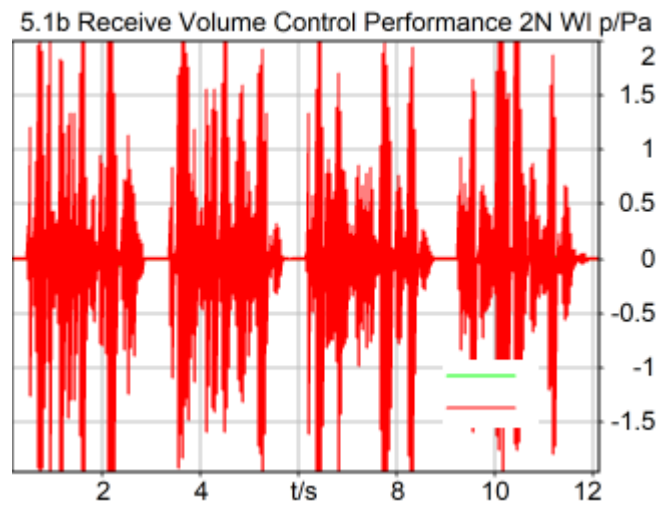


Delay (Cross): 110.9 ms

24/08/15 15:45 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



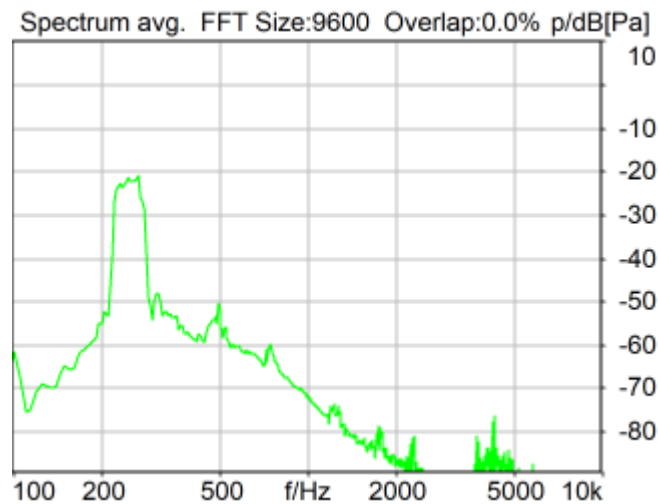
Speech Level RCV: 84.45 dB[SPL], Act.: 82.38% Ok

Ok

24/08/15 15:46 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



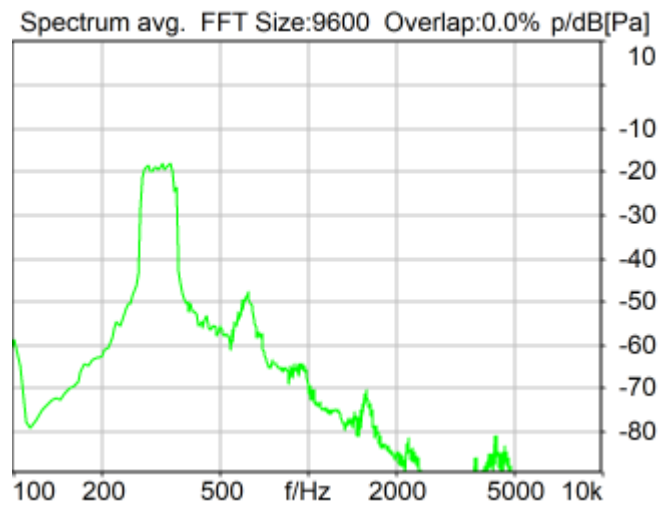
Distortion (Noise) RCV (packed): 28.94 dB (3.57%) Ok

Ok

24/08/15 15:46 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



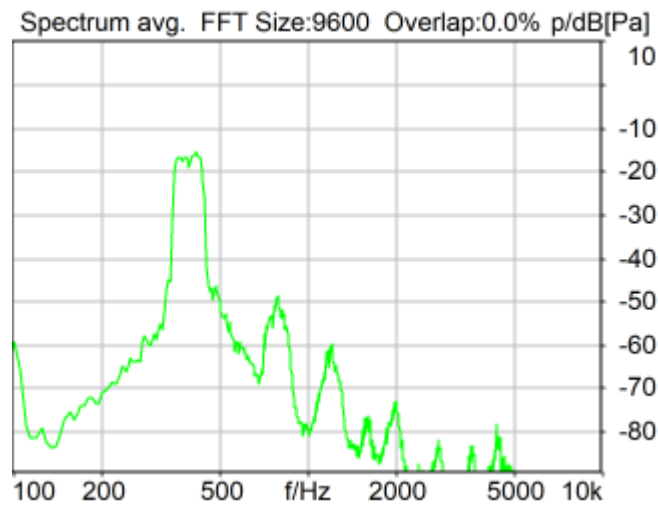
Distortion (Noise) RCV (packed): 30.42 dB (3.01%) Ok

Ok

24/08/15 15:47 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



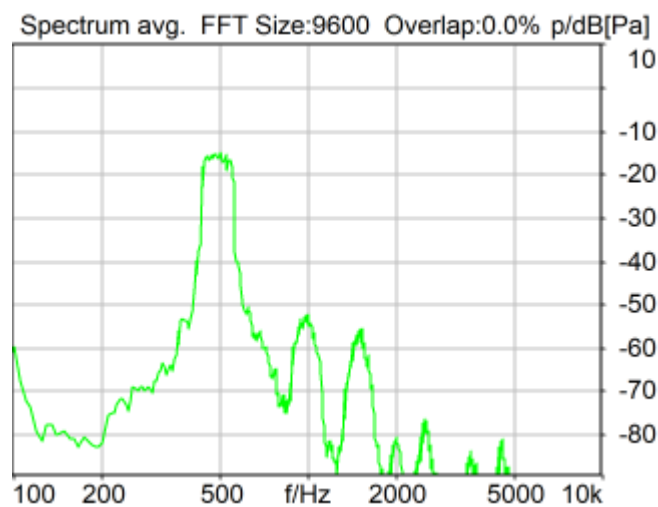
Distortion (Noise) RCV (packed): 32.48 dB (2.38%) Ok

Ok

24/08/15 15:47 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



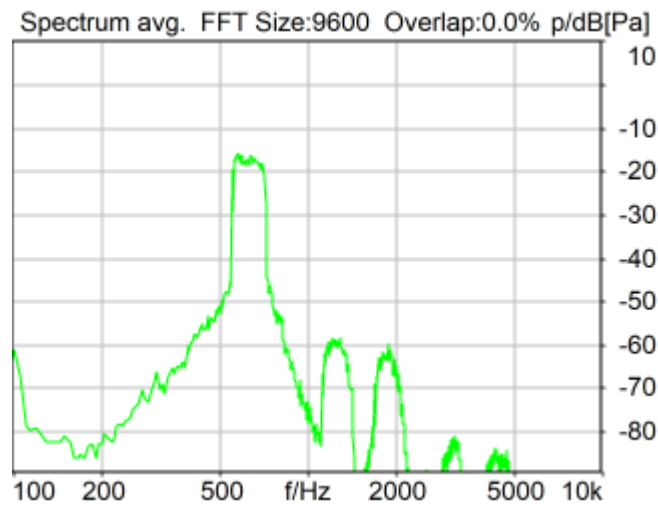
Distortion (Noise) RCV (packed): 33.43 dB (2.13%) Ok

Ok

24/08/15 15:48 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



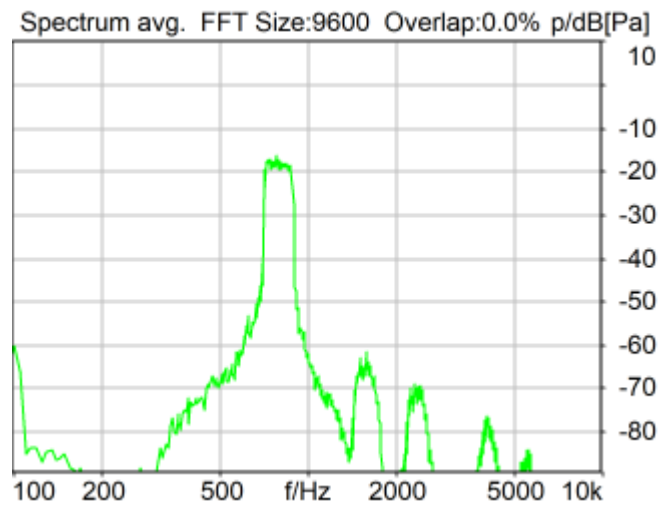
Distortion (Noise) RCV (packed): 34.29 dB (1.93%) Ok

Ok

24/08/15 15:48 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



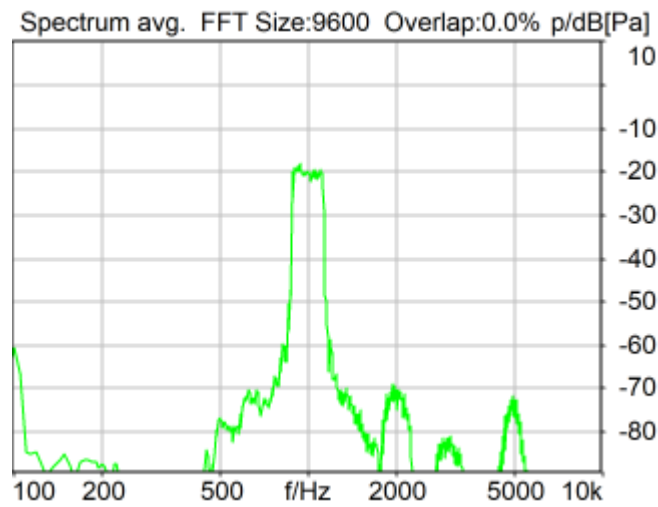
Distortion (Noise) RCV (packed): 38.21 dB (1.23%) Ok

Ok

24/08/15 15:48 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



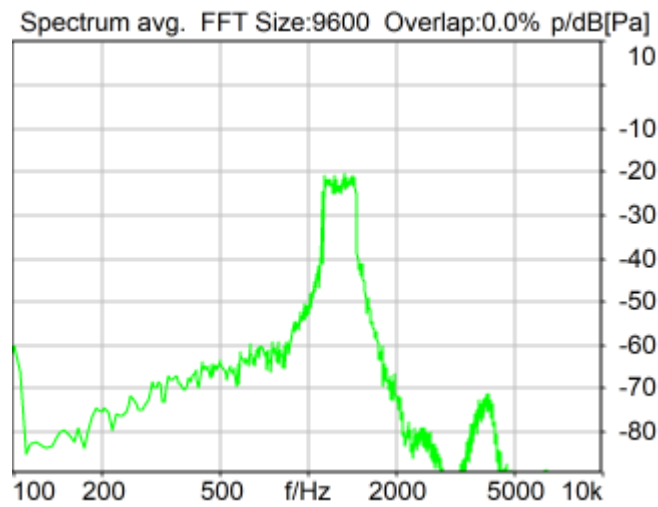
Distortion (Noise) RCV (packed): 41.48 dB (0.84%) Ok

Ok

24/08/15 15:49 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



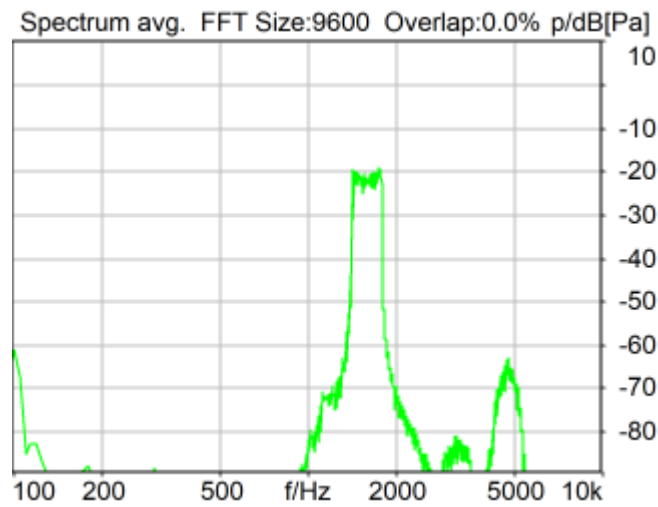
Distortion (Noise) RCV (packed): 21.78 dB (8.15%) Ok

Ok

24/08/15 15:49 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



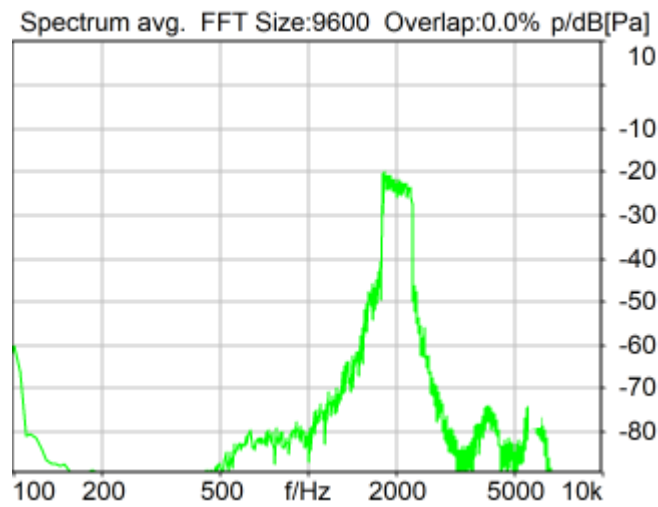
Distortion (Noise) RCV (packed): 38.95 dB (1.13%) Ok

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



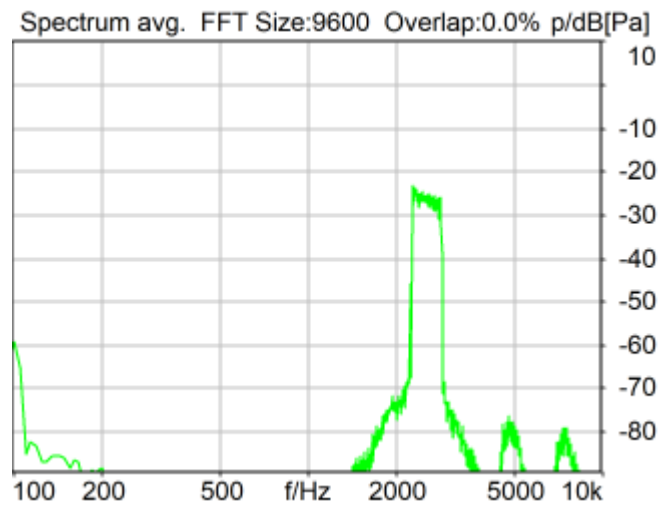
Distortion (Noise) RCV (packed): 26.58 dB (4.69%) Ok

Ok

24/08/15 15:50 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



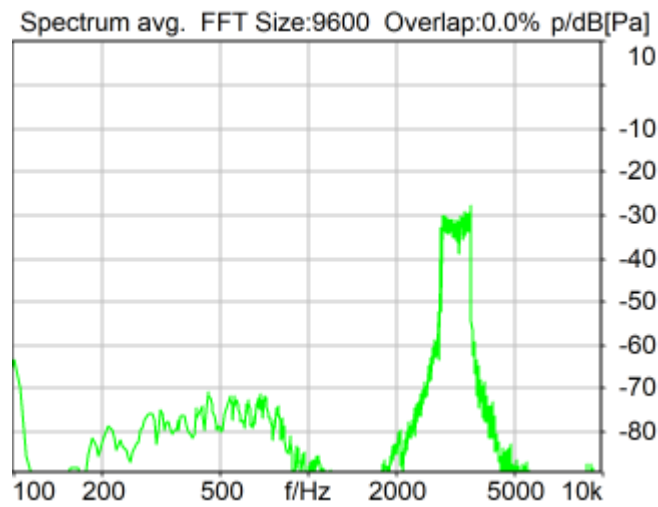
Distortion (Noise) RCV (packed): 43.66 dB (0.66%) Ok

Ok

24/08/15 15:53 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



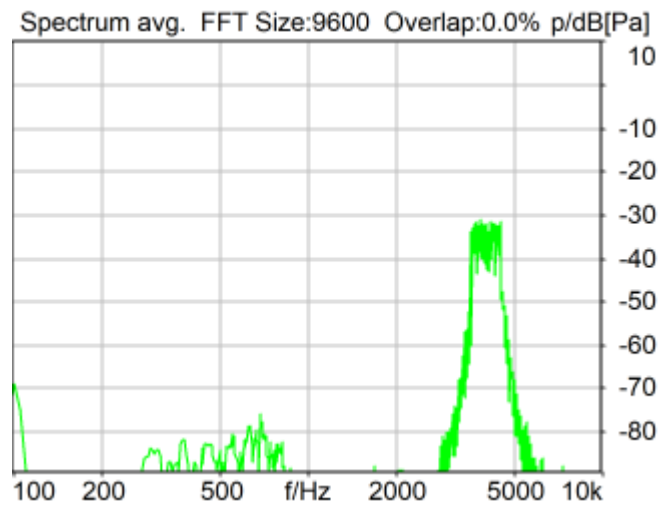
Distortion (Noise) RCV (packed): 30.29 dB (3.06%) Ok

Ok

24/08/15 15:51 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



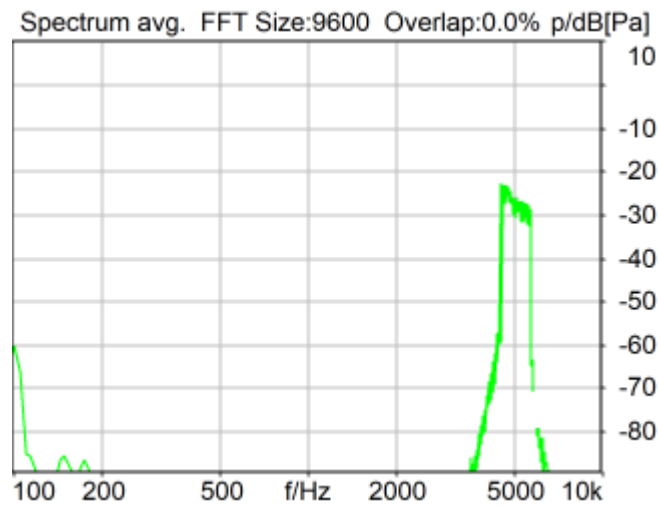
Distortion (Noise) RCV (packed): 21.90 dB (8.03%) Ok

Ok

24/08/15 15:52 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): 39.32 dB (1.08%) Ok

Ok

24/08/15 15:52 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	28.94 dB
2	315Hz	30.42 dB
3	400Hz	32.48 dB
4	500Hz	33.43 dB
5	630Hz	34.29 dB
6	800Hz	38.21 dB
7	1000Hz	41.48 dB
8	1250Hz	21.78 dB
9	1600Hz	38.95 dB
10	2000Hz	26.58 dB
11	3150Hz	30.29 dB
12	4000Hz	21.90 dB
13	5000Hz	39.32 dB
14	2500Hz	43.66 dB

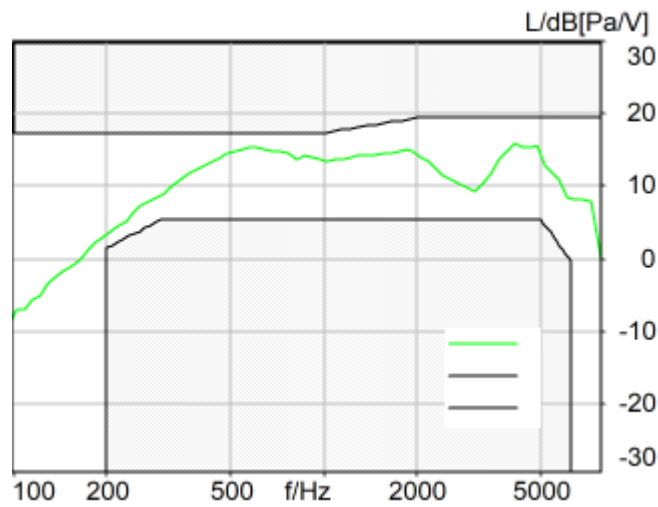
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.78dB at 1250Hz.

24/08/15 15:53 ACQUA

5.3 Frequency Response 2N FF

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



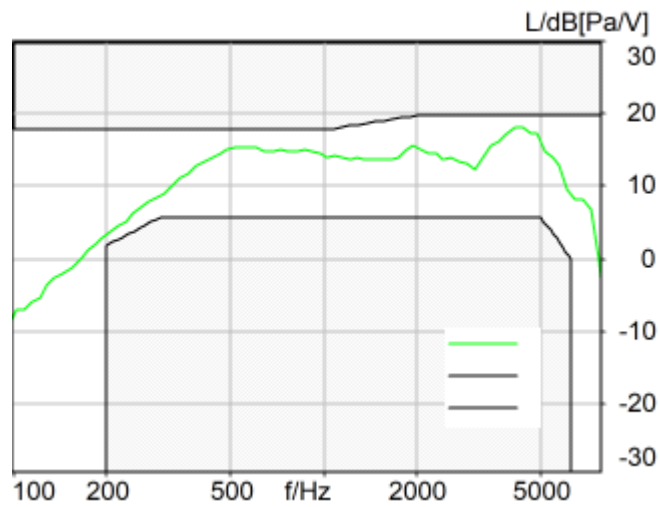
Absolute minimal distance
1.94 dB at 611.7 Hz Ok

Ok

24/08/15 15:52 ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.51 dB at 205.7 Hz Ok

Ok

24/08/15 15:53 ACQUA 5.1.200