
Measurement Protocol

Measurement Object	LTE Band 66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N
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Project	521107-01
Report Generation Date	25/05/28 10:51
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	140.3	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]]	83.46	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	32.24	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	35.54	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	36.20	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	37.10	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	38.79	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	34.23	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	30.89	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	29.00	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	21.33	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	31.76	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	35.77	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	35.40	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	38.88	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	35.69	LTE Band 66_20M_QPSK_1RB_0Offset_EV S WB 24.4kbps_Ch132322_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	21.33	LTE Band

ACQUA Report

Title: LTE Band

66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N

and Noise (Conversational Gain)		, (occured at 1600Hz)		66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	0.86	LTE Band 66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N
5.3 Frequency Response 2N DF	Not Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	-0.16	LTE Band 66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N

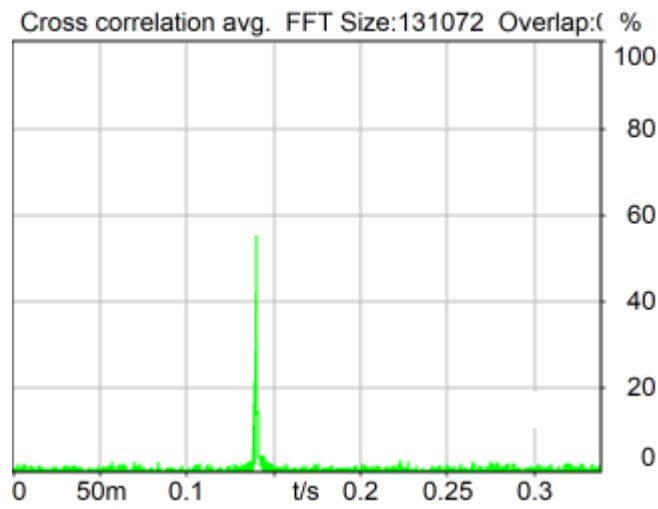
ACQUA Report
66_20M_QPSK_1RB_0Offset_EVS WB 24.4kbps_Ch132322_2N

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): 140.3 ms

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5.1b Receive Volume Control Performance 2N WB

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



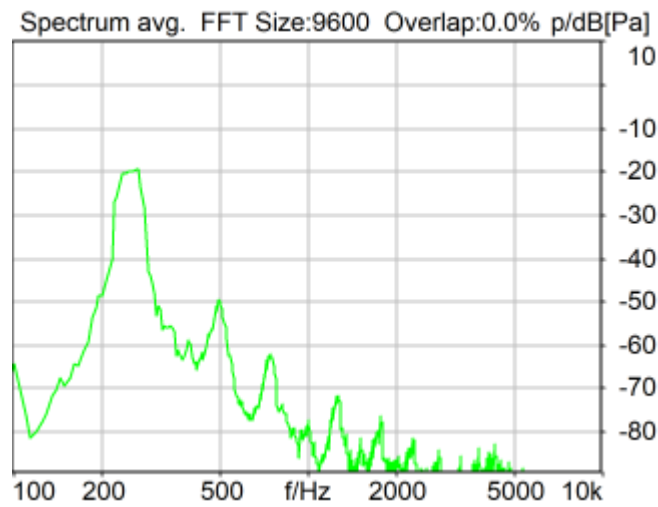
Speech Level RCV: 83.46 dB[SPL], Act.: 83.96% Ok

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



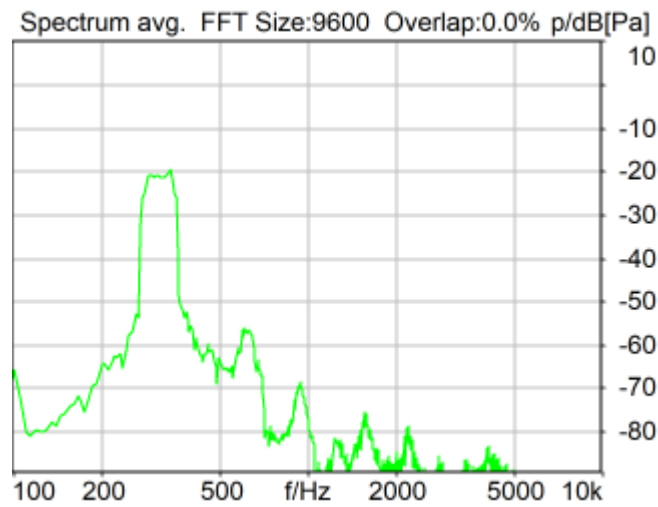
Distortion (Noise) RCV (packed): 32.24 dB (2.44%) Ok

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



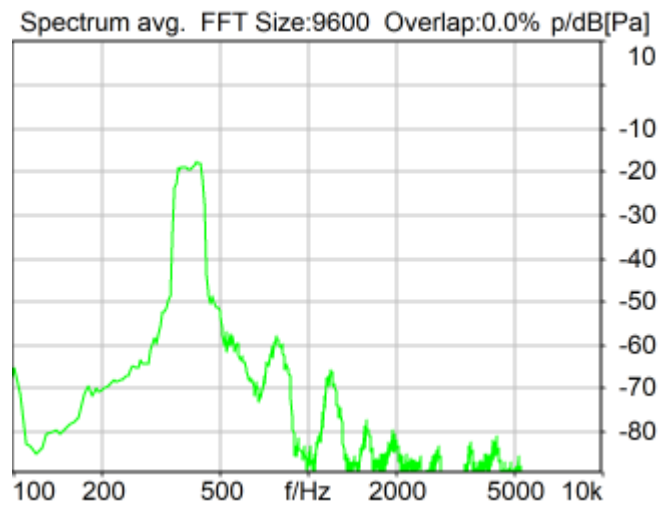
Distortion (Noise) RCV (packed): 35.54 dB (1.67%) Ok

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



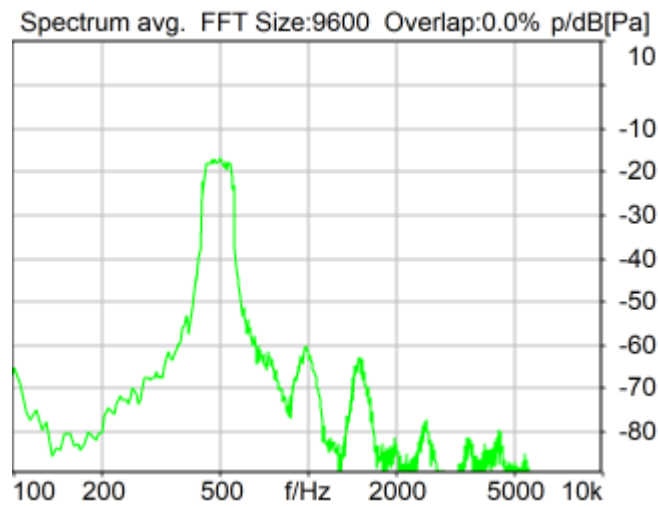
Distortion (Noise) RCV (packed): 36.20 dB (1.55%) Ok

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



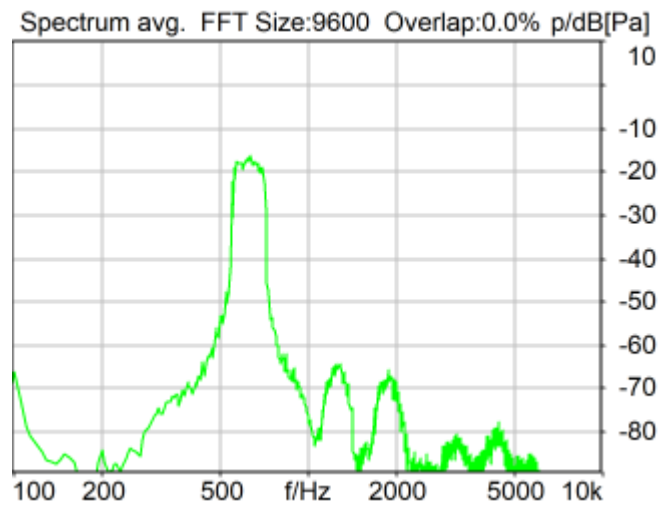
Distortion (Noise) RCV (packed): 37.10 dB (1.40%) Ok

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



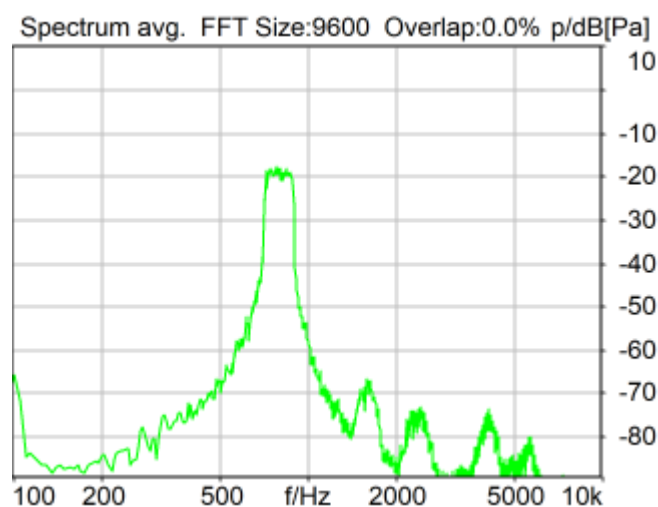
Distortion (Noise) RCV (packed): 38.79 dB (1.15%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz WB

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



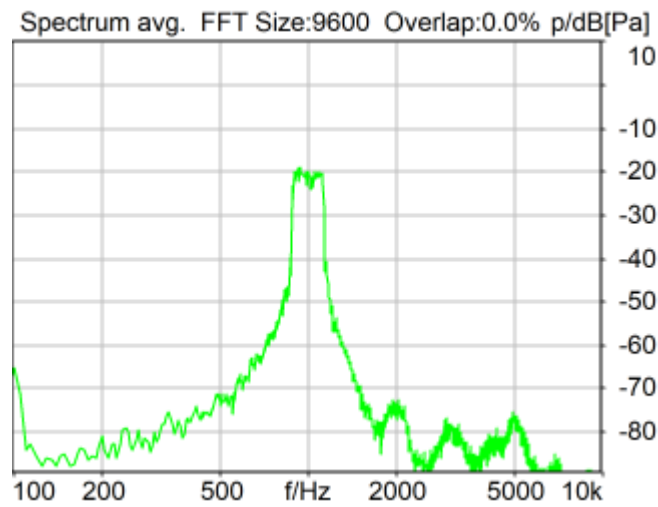
Distortion (Noise) RCV (packed): 34.23 dB (1.94%) Ok

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



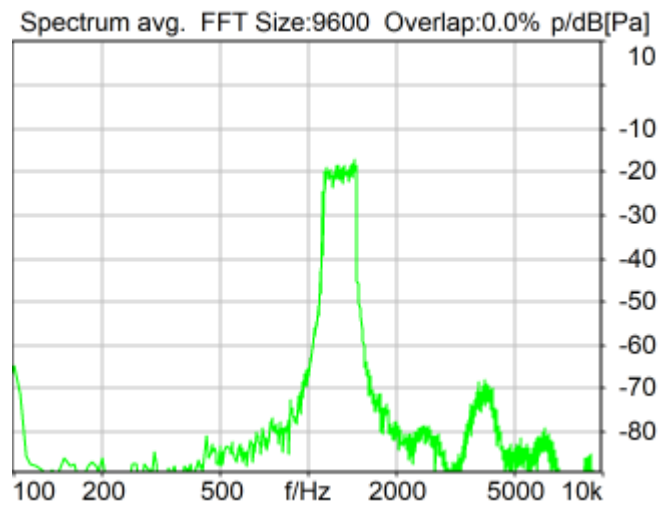
Distortion (Noise) RCV (packed): 30.89 dB (2.85%) Ok

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



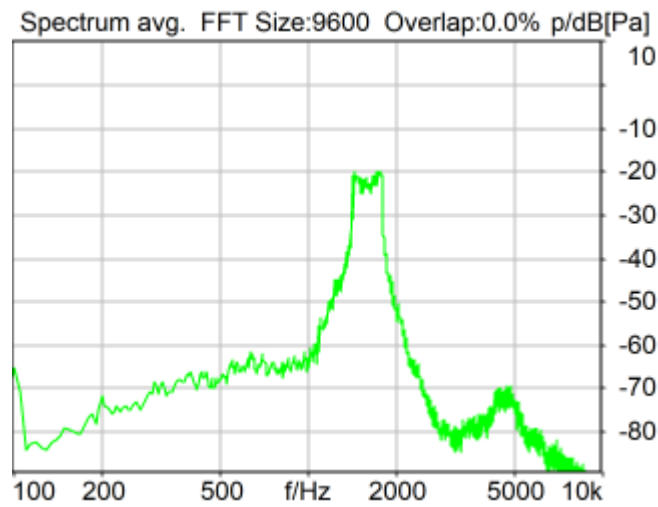
Distortion (Noise) RCV (packed): 29.00 dB (3.55%) Ok

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



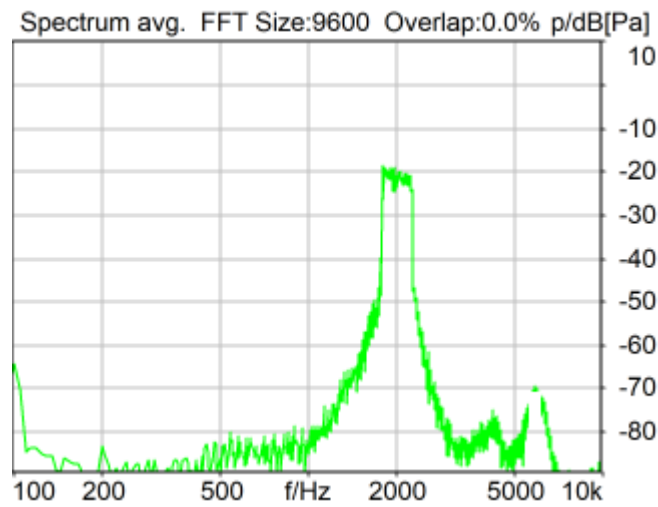
Distortion (Noise) RCV (packed): 21.33 dB (8.58%) Ok

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



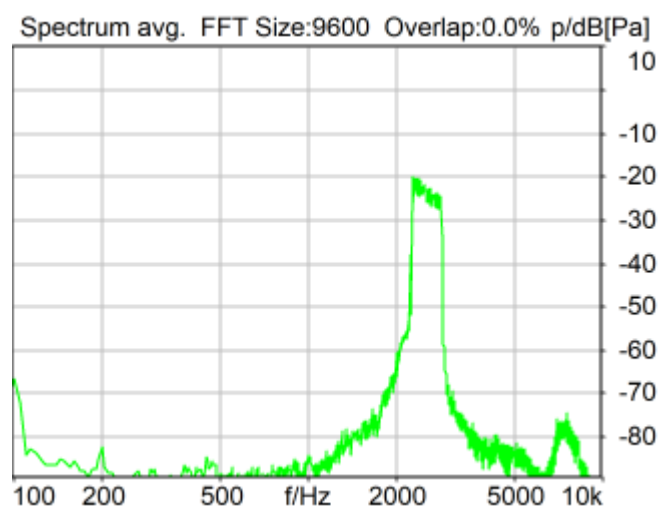
Distortion (Noise) RCV (packed): 31.76 dB (2.58%) Ok

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



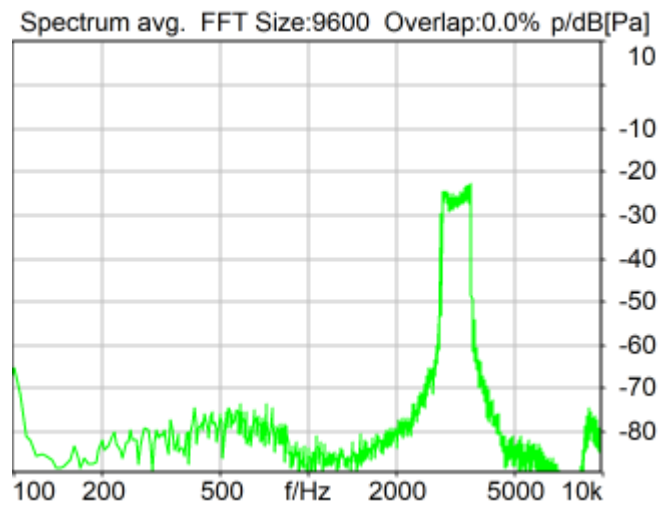
Distortion (Noise) RCV (packed): 35.77 dB (1.63%) Ok

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



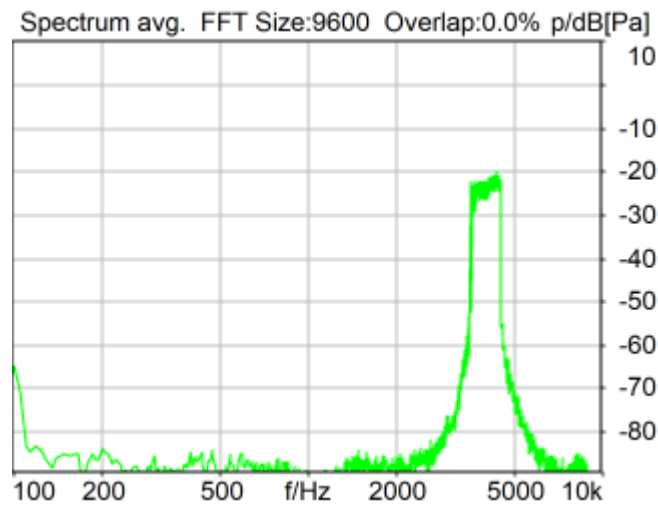
Distortion (Noise) RCV (packed): 35.40 dB (1.70%) Ok

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



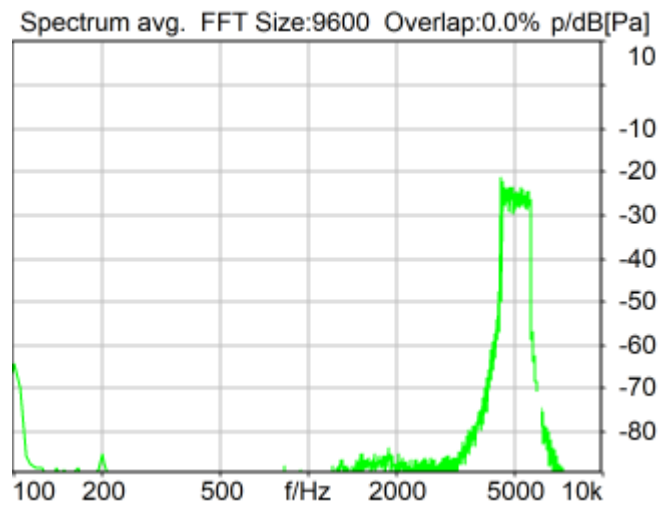
Distortion (Noise) RCV (packed): 38.88 dB (1.14%) Ok

Ok

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5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 35.69 dB (1.64%) 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	32.24 dB
2	315Hz	35.54 dB
3	400Hz	36.20 dB
4	500Hz	37.10 dB
5	630Hz	38.79 dB
6	800Hz	34.23 dB
7	1000Hz	30.89 dB
8	1250Hz	29.00 dB
9	1600Hz	21.33 dB
10	2000Hz	31.76 dB
11	2500Hz	35.77 dB
12	3150Hz	35.40 dB
13	4000Hz	38.88 dB
14	5000Hz	35.69 dB

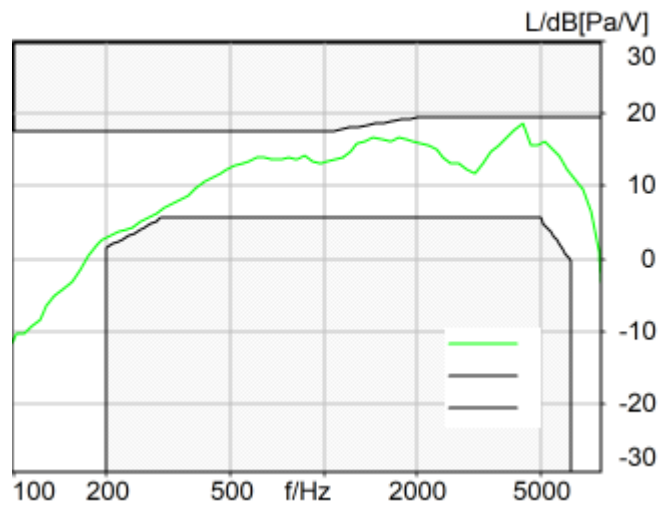
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.33dB at 1600Hz.

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5.3 Frequency Response 2N FF

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



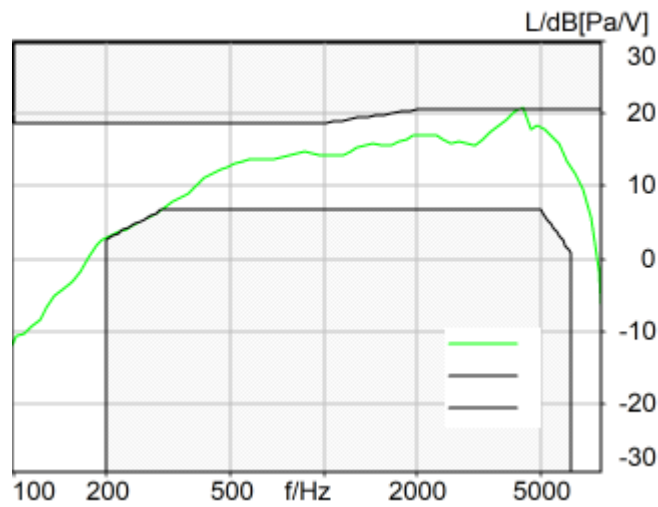
Absolute minimal distance
0.86 dB at 4369.4 Hz Ok

Ok

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5.3 Frequency Response 2N DF

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



Absolute minimal distance
-0.16 dB at 4369.4 Hz Not Ok

Not Ok

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Measurement Protocol

Measurement Object	FR1 n77 27O_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
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Project	521107-01
Report Generation Date	25/05/25 14:31
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	297.3	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	88.27	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.84	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.73	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.36	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.17	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.90	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.27	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.09	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.33	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.03	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	21.91	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.97	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.70	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.51	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.75	FR1 n77 270_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB]	21.91	FR1 n77

ACQUA Report

Title: FR1 n77

27O_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N

and Noise (Conversational Gain)		, (occured at 2000Hz)		27O_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1447.5 Hz	1.93	FR1 n77 27O_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.32	FR1 n77 27O_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N

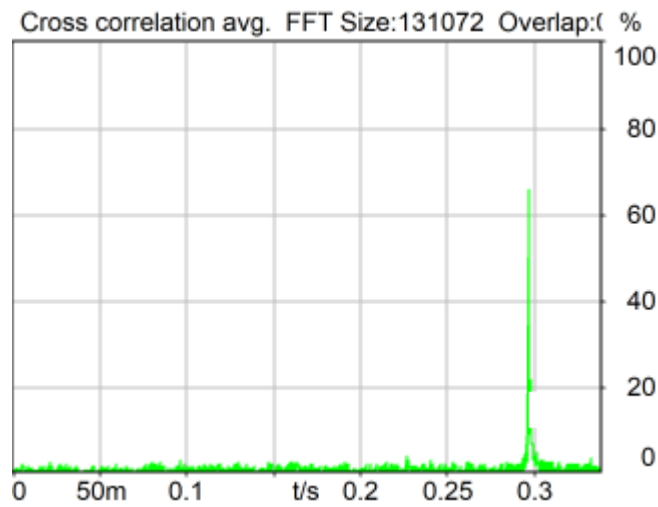
ACQUA Report
27O_100M_QPSK_1RB_1Offset_EVS WB 24.4kbps_Ch656000_8N

Title: FR1 n77

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

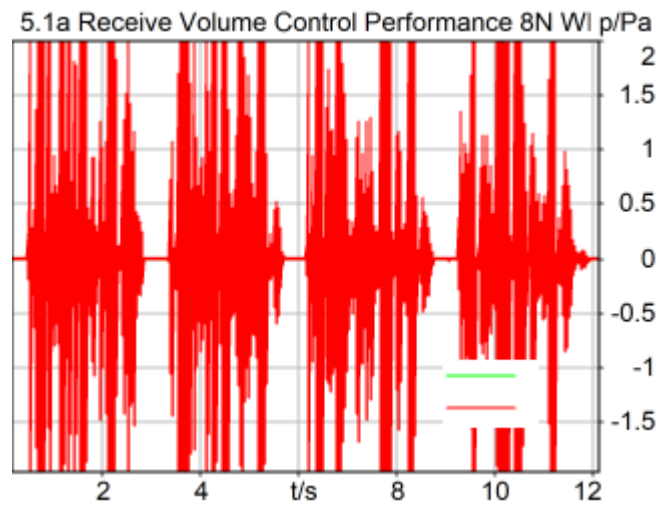


Delay (Cross): 297.3 ms

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5.1a Receive Volume Control Performance 8N WB

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



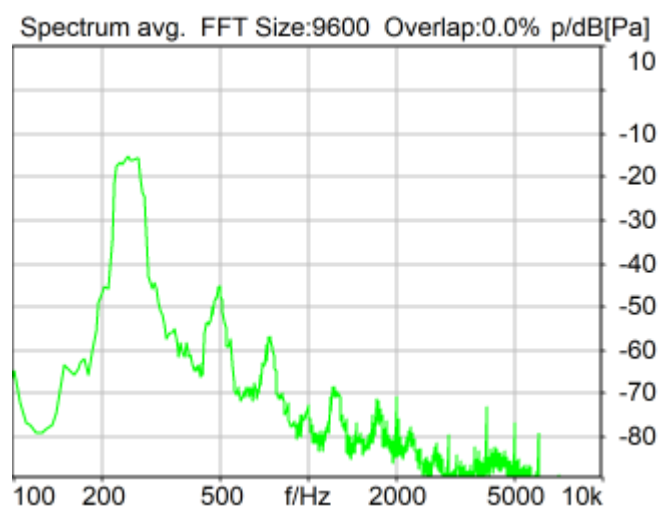
Speech Level RCV: 88.27 dB[SPL], Act.: 83.96% Ok

Ok

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5.2 RCV Distortion and Noise - 250 Hz WB

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



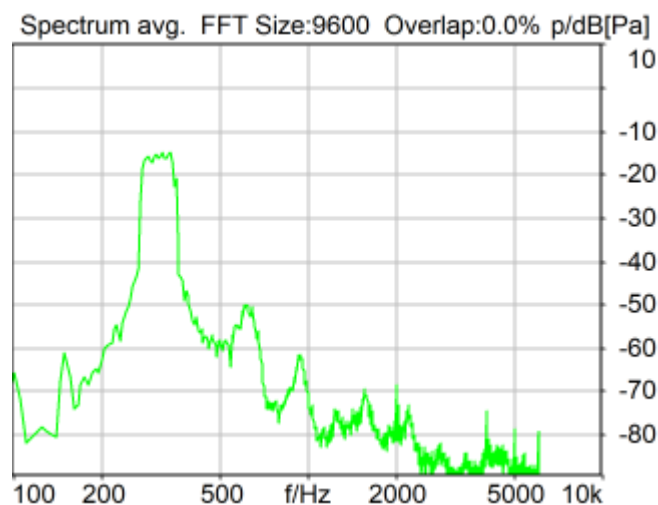
Distortion (Noise) RCV (packed): 32.84 dB (2.28%) Ok

Ok

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5.2 RCV Distortion and Noise - 315 Hz WB

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



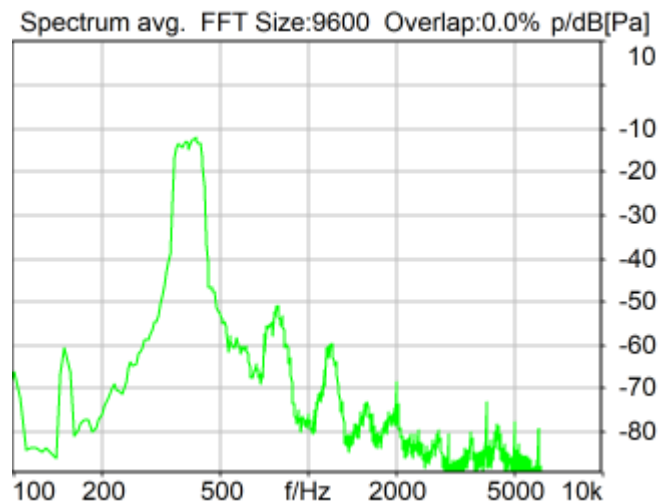
Distortion (Noise) RCV (packed): 34.73 dB (1.84%) Ok

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



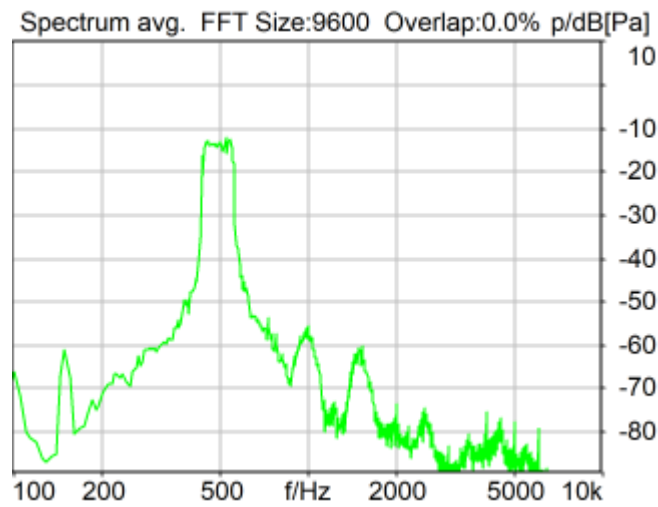
Distortion (Noise) RCV (packed): 37.36 dB (1.36%) Ok

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



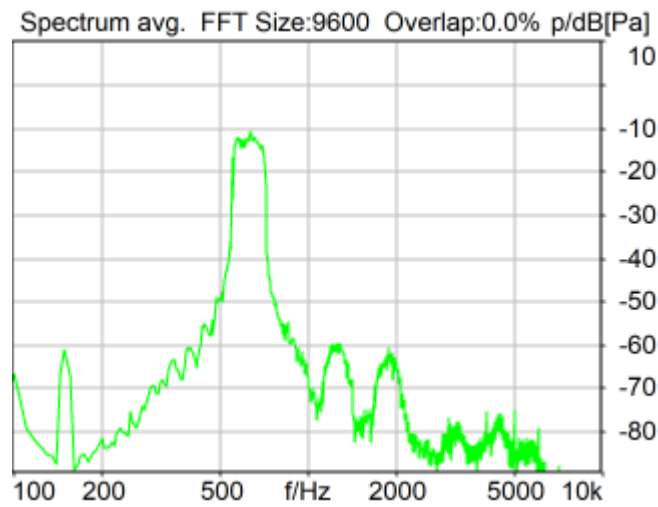
Distortion (Noise) RCV (packed): 36.17 dB (1.55%) Ok

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



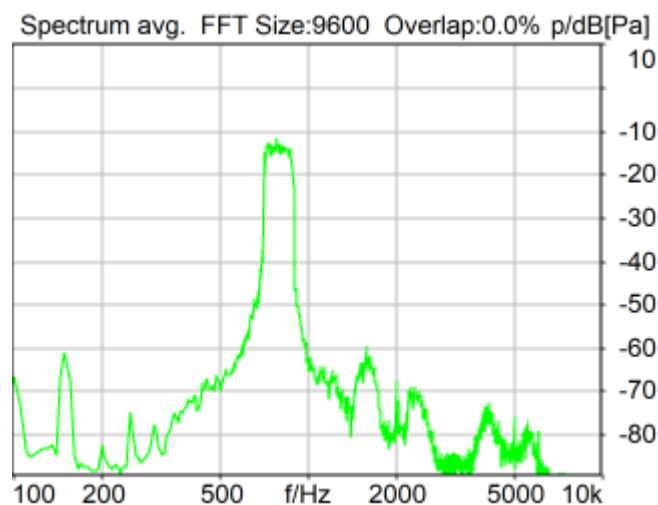
Distortion (Noise) RCV (packed): 37.90 dB (1.27%) Ok

Ok

25/05/25 14:25 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



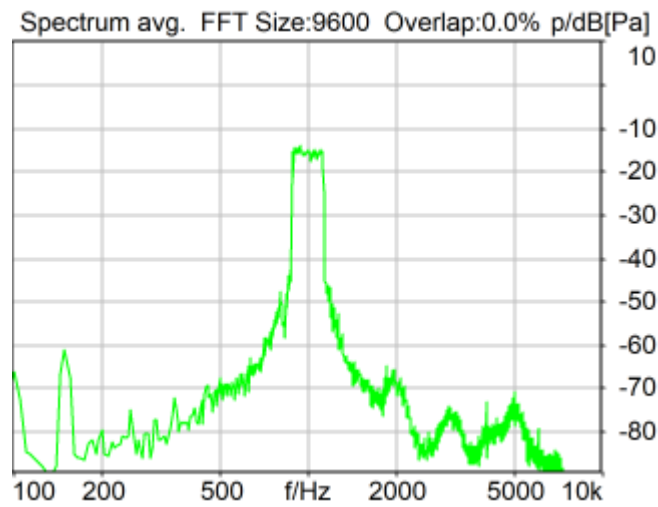
Distortion (Noise) RCV (packed): 40.27 dB (0.97%) Ok

Ok

25/05/25 14:26 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



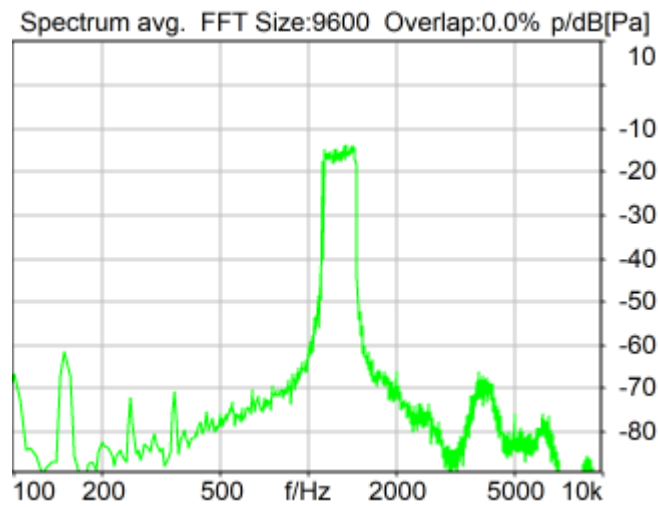
Distortion (Noise) RCV (packed): 36.09 dB (1.57%) Ok

Ok

25/05/25 14:26 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



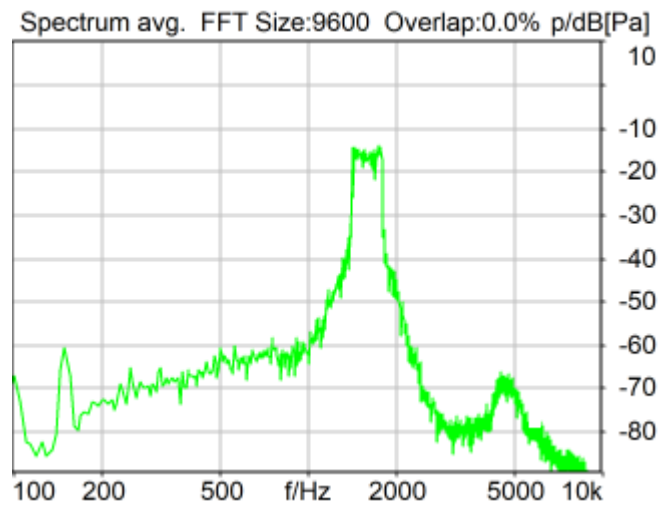
Distortion (Noise) RCV (packed): 33.33 dB (2.15%) Ok

Ok

25/05/25 14:27 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



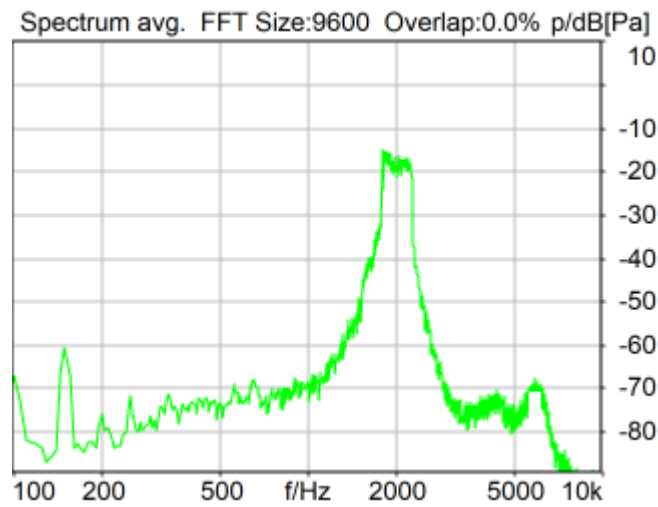
Distortion (Noise) RCV (packed): 26.03 dB (5.00%) Ok

Ok

25/05/25 14:27 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



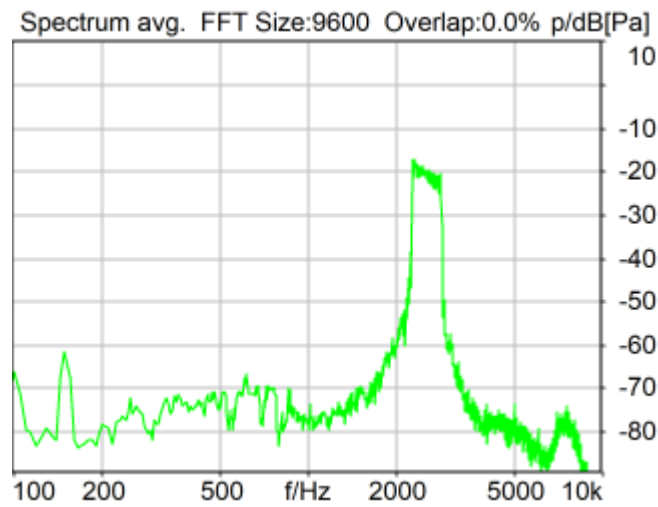
Distortion (Noise) RCV (packed): 21.91 dB (8.03%) Ok

Ok

25/05/25 14:28 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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



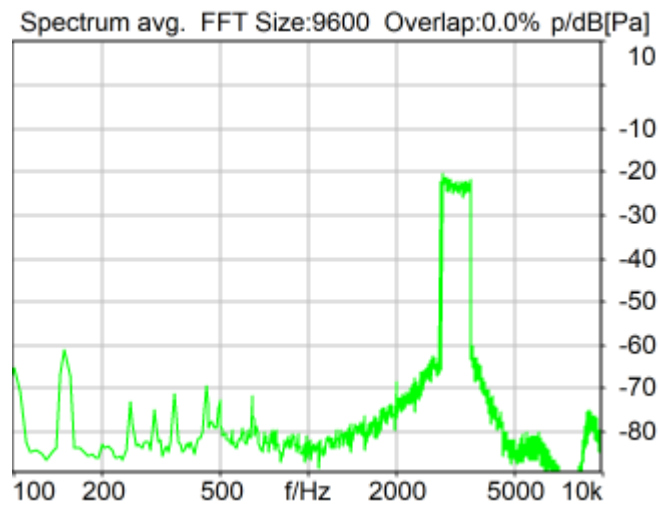
Distortion (Noise) RCV (packed): 32.97 dB (2.25%) Ok

Ok

25/05/25 14:28 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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



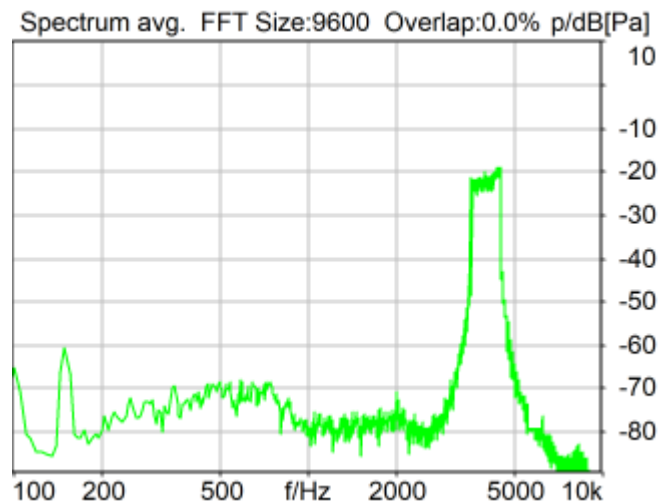
Distortion (Noise) RCV (packed): 39.70 dB (1.04%) Ok

Ok

25/05/25 14:29 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



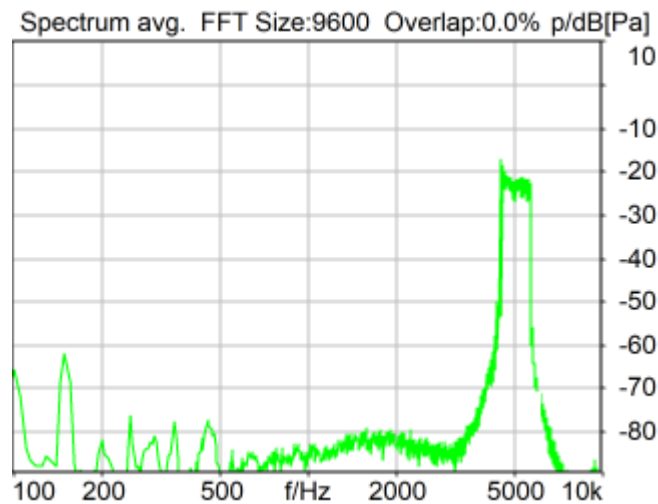
Distortion (Noise) RCV (packed): 30.51 dB (2.98%) Ok

Ok

25/05/25 14:29 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 37.75 dB (1.30%) Ok

Ok

25/05/25 14:29 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	32.84 dB
2	315Hz	34.73 dB
3	400Hz	37.36 dB
4	500Hz	36.17 dB
5	630Hz	37.90 dB
6	800Hz	40.27 dB
7	1000Hz	36.09 dB
8	1250Hz	33.33 dB
9	1600Hz	26.03 dB
10	2000Hz	21.91 dB
11	2500Hz	32.97 dB
12	3150Hz	39.70 dB
13	4000Hz	30.51 dB
14	5000Hz	37.75 dB

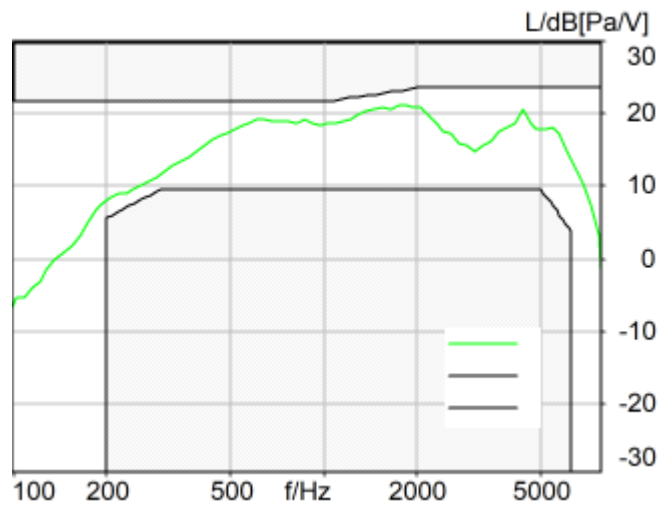
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.91dB at 2000Hz.

25/05/25 14:30 ACQUA

5.3 Frequency Response 8N FF

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



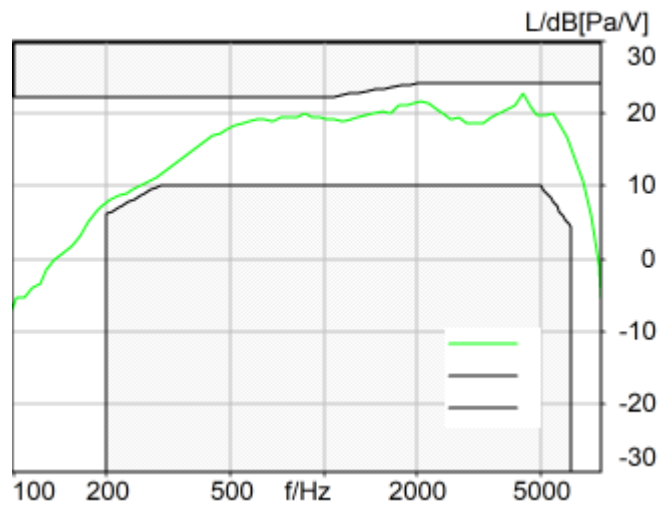
Absolute minimal distance
1.93 dB at 1447.5 Hz Ok

Ok

25/05/25 14:30 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
1.32 dB at 4369.4 Hz Ok

Ok

25/05/25 14:30 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps_Ch6_2N
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Project	521107-01
Report Generation Date	25/05/29 14:02
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	184.4	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	84.20	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.98	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.71	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.00	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.95	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.54	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.48	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.11	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.11	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.68	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.25	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	20.48	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	0.01	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	0.07	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_2N

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): 184.4 ms

25/05/29 14:01 ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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

Speech Level RCV: 84.20 dB[SPL], Act.: 81.93% Ok

Ok

25/05/29 13:51 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): 34.98 dB (1.78%) Ok

Ok

25/05/29 13:51 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): 32.71 dB (2.32%) Ok

Ok

25/05/29 13:52 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): 30.00 dB (3.16%) Ok

Ok

25/05/29 13:52 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): 33.95 dB (2.01%) Ok

Ok

25/05/29 13:53 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): 29.54 dB (3.34%) Ok

Ok

25/05/29 13:53 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): 20.48 dB (9.46%) Ok

Ok

25/05/29 13:53 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): 33.11 dB (2.21%) Ok

Ok

25/05/29 13:54 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): 31.11 dB (2.78%) Ok

Ok

25/05/29 13:54 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): 30.68 dB (2.93%) Ok

Ok

25/05/29 13:55 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): 34.25 dB (1.94%) Ok

Ok

25/05/29 13:55 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	34.98 dB
2	500Hz	32.71 dB
3	630Hz	30.00 dB
4	800Hz	33.95 dB
5	1000Hz	29.54 dB
6	1250Hz	20.48 dB
7	1600Hz	33.11 dB
8	2000Hz	31.11 dB
9	2500Hz	30.68 dB
10	3150Hz	34.25 dB

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

Smallest SDNR was 20.48dB at 1250Hz.

25/05/29 13:58 ACQUA

5.3 Frequency Response 2N FF HANB

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

Absolute minimal distance

0.01 dB at 1747.8 Hz Ok

Ok

25/05/29 14:01 ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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

Absolute minimal distance

0.07 dB at 305.9 Hz Ok

Ok

25/05/29 13:59 ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 24.4kbps_Ch60_8N
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Project	521107-01
Report Generation Date	25/05/29 17:18
Responsible Person	AC01-KS

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	221.6	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	88.71	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.76	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.61	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.24	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.97	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.45	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	27.53	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.77	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.75	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.92	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.45	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.12	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	26.53	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	28.03	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	29.84	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.75	WLAN5GHz_802.11a

ACQUA Report
4kbps_Ch60_8N

Title: WLAN5GHz_802.11a 6Mbps_EVS WB 24.

and Noise (Conversational Gain)		(occured at 1250Hz)		6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 1447.5 Hz	1.57	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 4369.4 Hz	1.05	WLAN5GHz_802.11a 6Mbps_EVS WB 24. 4kbps_Ch60_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): 221.6 ms

25/05/29 17:10 ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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

Speech Level RCV: 88.71 dB[SPL], Act.: 84.16% Ok

Ok

25/05/29 17:10 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 250 Hz WB

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

Distortion (Noise) RCV (packed): 31.76 dB (2.58%) Ok

Ok

25/05/29 17:11 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): 33.61 dB (2.09%) Ok

Ok

25/05/29 17:12 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): 32.24 dB (2.44%) Ok

Ok

25/05/29 17:12 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz WB

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

Distortion (Noise) RCV (packed): 26.97 dB (4.48%) Ok

Ok

25/05/29 17:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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

Distortion (Noise) RCV (packed): 26.45 dB (4.76%) Ok

Ok

25/05/29 17:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz WB

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

Distortion (Noise) RCV (packed): 27.53 dB (4.20%) Ok

Ok

25/05/29 17:13 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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

Distortion (Noise) RCV (packed): 24.77 dB (5.77%) Ok

Ok

25/05/29 17:14 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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

Distortion (Noise) RCV (packed): 20.75 dB (9.17%) Ok

Ok

25/05/29 17:14 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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

Distortion (Noise) RCV (packed): 22.92 dB (7.14%) Ok

Ok

25/05/29 17:15 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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

Distortion (Noise) RCV (packed): 24.45 dB (5.99%) Ok

Ok

25/05/29 17:15 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz WB

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

Distortion (Noise) RCV (packed): 29.12 dB (3.50%) Ok

Ok

25/05/29 17:16 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz WB

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

Distortion (Noise) RCV (packed): 26.53 dB (4.72%) Ok

Ok

25/05/29 17:16 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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

Distortion (Noise) RCV (packed): 28.03 dB (3.97%) Ok

Ok

25/05/29 17:17 ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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

Distortion (Noise) RCV (packed): 29.84 dB (3.22%) Ok

Ok

25/05/29 17:17 ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	250Hz	31.76 dB
2	315Hz	33.61 dB
3	400Hz	32.24 dB
4	500Hz	26.97 dB
5	630Hz	26.45 dB
6	800Hz	27.53 dB
7	1000Hz	24.77 dB
8	1250Hz	20.75 dB
9	1600Hz	22.92 dB
10	2000Hz	24.45 dB
11	2500Hz	29.12 dB
12	3150Hz	26.53 dB
13	4000Hz	28.03 dB
14	5000Hz	29.84 dB

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

Smallest SDNR was 20.75dB at 1250Hz.

25/05/29 17:17 ACQUA

5.3 Frequency Response 8N FF

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

Absolute minimal distance

1.57 dB at 1447.5 Hz Ok

Ok

25/05/29 17:18 ACQUA 5.1.200

5.3 Frequency Response 8N DF

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

Absolute minimal distance

1.05 dB at 4369.4 Hz Ok

Ok

25/05/29 17:18 ACQUA 5.1.200

ACQUA Report
4.75kbps_Ch189_2N

Title: 05_GSM850_GSM Voice_AMR NB

Measurement Protocol

Measurement Object	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_2N
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Project	521107-01
Report Generation Date	25/05/28 18:00
Responsible Person	AC01-KS

ACQUA Report
4.75kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR NB

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	171.1	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	83.34	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_2N

ACQUA Report
4.75kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR NB

ACQUA Report
4.75kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR NB

Overall Receive Delay NB.....	7
5.1b Receive Volume Control Performance 2N NB.....	8

ACQUA Report
4.75kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR NB

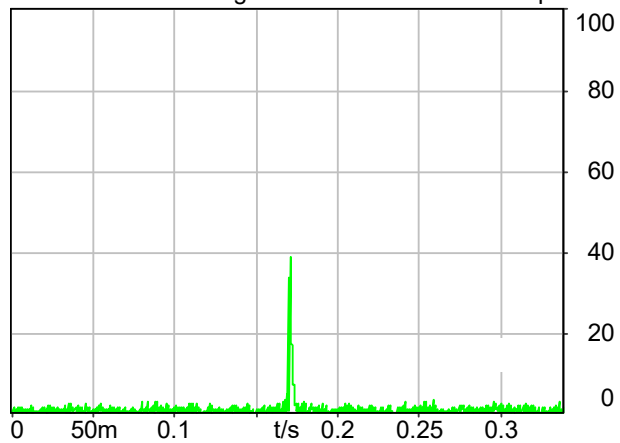
ACQUA Report
4.75kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR NB

Overall Receive Delay NB

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

Cross correlation avg. FFT Size:131072 Overlap:(%



Delay (Cross): 171.1 ms

25/05/28 18:00 ACQUA 5.1.200

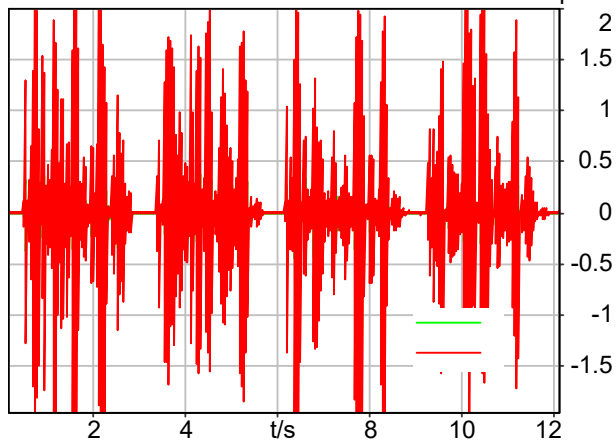
ACQUA Report
4.75kbps_Ch189_2N

Title: GSM850_GSM Voice_AMR NB

5.1b Receive Volume Control Performance 2N NB

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

5.1b Receive Volume Control Performance 2N NE p/Pa



Speech Level RCV: 83.34 dB[SPL], Act.: 80.52% Ok

Ok

25/05/28 18:00 ACQUA 5.1.200

ACQUA Report
4.75kbps_Ch4182_2N

Title: 06_WCDMA V_Voice_AMR NB

Measurement Protocol

Measurement Object	WCDMA V_Voice_AMR NB 4.75kbps_Ch4182_2N
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Project	521107-01
Report Generation Date	25/05/28 19:55
Responsible Person	AC01-KS

ACQUA Report
4.75kbps_Ch4182_2N

Title: WCDMA V_Voice_AMR NB

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	194.0	WCDMA V_Voice_AMR NB 4.75kbps_Ch4182_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	82.95	WCDMA V_Voice_AMR NB 4.75kbps_Ch4182_2N

ACQUA Report
4.75kbps_Ch4182_2N

Title: WCDMA V_Voice_AMR NB

Overall Receive Delay NB.....	7
5.1b Receive Volume Control Performance 2N NB.....	8

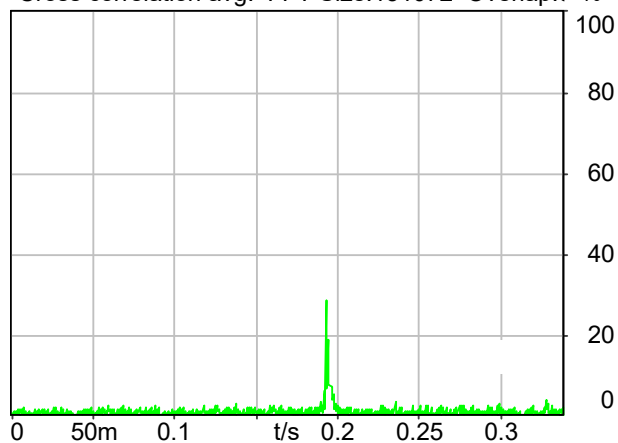
ACQUA Report
4.75kbps_Ch4182_2N

Title: WCDMA V_Voice_AMR NB

Overall Receive Delay NB

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

Cross correlation avg. FFT Size:131072 Overlap:(%



Delay (Cross): 194.0 ms

25/05/28 19:54 ACQUA 5.1.200

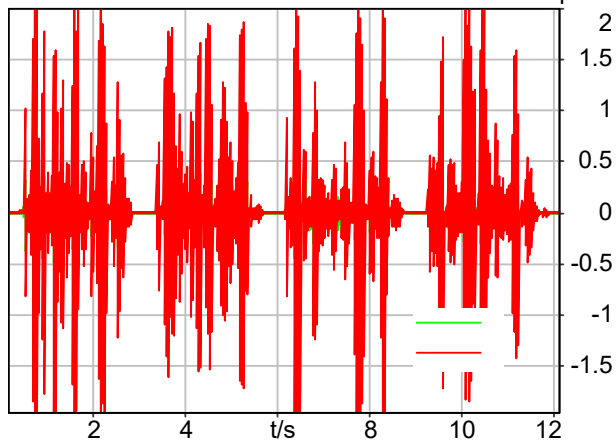
ACQUA Report
4.75kbps_Ch4182_2N

Title: WCDMA V_Voice_AMR NB

5.1b Receive Volume Control Performance 2N NB

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

5.1b Receive Volume Control Performance 2N NE p/Pa



Speech Level RCV: 82.95 dB[SPL], Act.: 79.92% Ok

Ok

25/05/28 19:55 ACQUA 5.1.200

ACQUA Report
5.9kbps_Ch21100_2N

Title: 07_LTE Band 7_20M_QPSK_1_0_EVS WB

Measurement Protocol

Measurement Object	LTE Band 7_20M_QPSK_1_0_EVS WB 5.9kbps_Ch21100_2N
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Project	521107-01
Report Generation Date	25/05/28 21:52
Responsible Person	AC01-KS

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	141.0	LTE Band 7_20M_QPSK_1_0_EVS WB 5.9kbps_Ch21100_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	82.84	LTE Band 7_20M_QPSK_1_0_EVS WB 5.9kbps_Ch21100_2N

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

Overall Receive Delay WB.....	8
5.1b Receive Volume Control Performance 2N WB.....	9

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

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

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

Overall Receive Delay WB

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

Delay (Cross): 141.0 ms

25/05/28 21:51 ACQUA 5.1.200

ACQUA Report
5.9kbps_Ch21100_2N

Title: LTE Band 7_20M_QPSK_1_0_EVS WB

5.1b Receive Volume Control Performance 2N WB

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

Speech Level RCV: 82.84 dB[SPL], Act.: 83.05% Ok

Ok

25/05/28 21:52 ACQUA 5.1.200

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: 08_FR1 n66_40M_QPSK_1RB_1Offset_AMR

Measurement Protocol

Measurement Object	FR1 n66_40M_QPSK_1RB_1Offset_AMR NB 12.2kbps_Ch349000_8N
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Project	521107-01
Report Generation Date	25/05/30 1:43
Responsible Person	AC01-KS

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	268.4	FR1 n66_40M_QPSK_1RB_1Offset_AMR NB 12.2kbps_Ch349000_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	85.93	FR1 n66_40M_QPSK_1RB_1Offset_AMR NB 12.2kbps_Ch349000_8N

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

Overall Receive Delay NB.....	8
5.1a Receive Volume Control Performance 8N NB.....	9

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

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

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

Overall Receive Delay NB

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

Delay (Cross): 268.4 ms

25/05/30 1:42 ACQUA 5.1.200

ACQUA Report
NB 12.2kbps_Ch349000_8N

Title: FR1 n66_40M_QPSK_1RB_1Offset_AMR

5.1a Receive Volume Control Performance 8N NB

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

Speech Level RCV: 85.93 dB[SPL], Act.: 99.57% Ok

Ok

25/05/30 1:43 ACQUA 5.1.200

ACQUA Report
27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

Title: 09_FR1 n77

Measurement Protocol

Measurement Object	FR1 n77 27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N
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Project	521107-01
Report Generation Date	25/05/26 23:32
Responsible Person	AC01-KS

ACQUA Report
27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

Title: FR1 n77

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	249.4	FR1 n77 27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	82.13	FR1 n77 27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

ACQUA Report

Title: FR1 n77

27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

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

ACQUA Report

Title: FR1 n77

27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

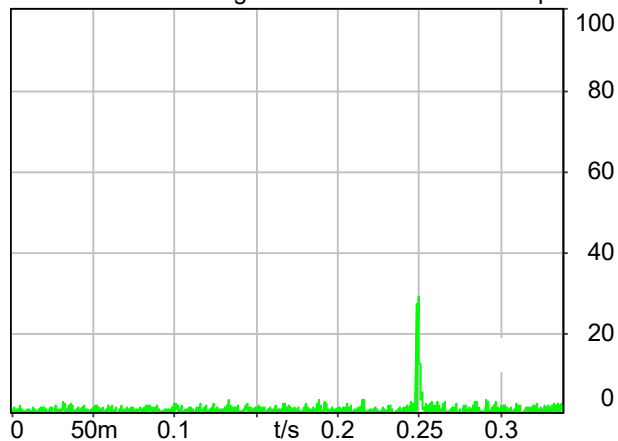
ACQUA Report
27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

Title: FR1 n77

Overall Receive Delay NB

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

Cross correlation avg. FFT Size:131072 Overlap:(%



Delay (Cross): 249.4 ms

25/05/26 23:31 ACQUA 5.1.200

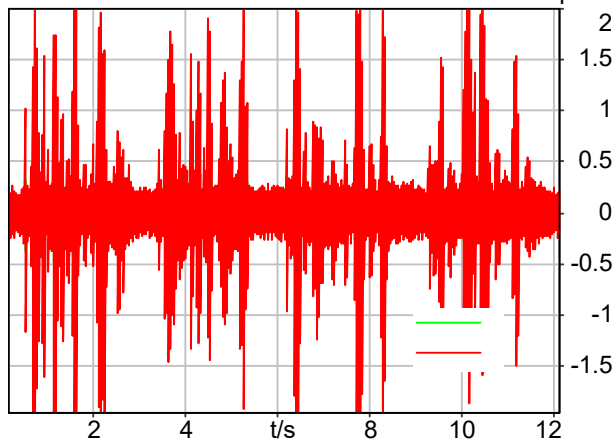
ACQUA Report
27O_100M_QPSK_1RB_1Offset_AMR NB 4.75kbps_Ch656000_2N

Title: FR1 n77

5.1b Receive Volume Control Performance 2N NB

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

5.1b Receive Volume Control Performance 2N NE p/Pa



Speech Level RCV: 82.13 dB[SPL], Act.: 99.46% Ok

Ok

25/05/26 23:31 ACQUA 5.1.200

ACQUA Report
4.75kbps_Ch40_2N

Title: 10_WLAN5GHz_802.11a 6Mbps_AMR NB

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_AMR NB 4.75kbps_Ch40_2N
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Project	521107-01
Report Generation Date	25/05/29 18:18
Responsible Person	AC01-KS

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	275.7	WLAN5GHz_802.11a 6Mbps_AMR NB 4.75kbps_Ch40_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	82.84	WLAN5GHz_802.11a 6Mbps_AMR NB 4.75kbps_Ch40_2N

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

Overall Receive Delay NB.....	7
5.1b Receive Volume Control Performance 2N NB.....	8

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

Overall Receive Delay NB

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

Delay (Cross): 275.7 ms

25/05/29 18:18 ACQUA 5.1.200

ACQUA Report
4.75kbps_Ch40_2N

Title: WLAN5GHz_802.11a 6Mbps_AMR NB

5.1b Receive Volume Control Performance 2N NB

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

Speech Level RCV: 82.84 dB[SPL], Act.: 80.01% Ok

Ok

25/05/29 18:18 ACQUA 5.1.200