
Measurement Protocol

Measurement Object	LTE B7_20M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch21100_2N
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Project	411619
Report Generation Date	2/4/2024 2:17 PM
Responsible Person	AC01-KS

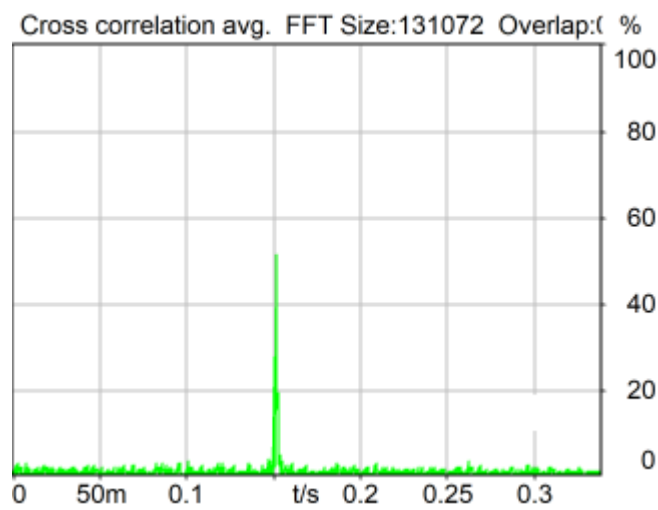
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	152.2	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	93.04	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	35.71	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	35.49	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	36.23	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	37.48	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	37.69	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	27.69	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	40.70	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	43.57	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	22.22	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	20.08	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 3150Hz)	20.08	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 731.5 Hz	2.15	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	2.10	LTE B7_20M_QPSK_1RB_0Offset_E VS NB 24.4kbps_Ch21100_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

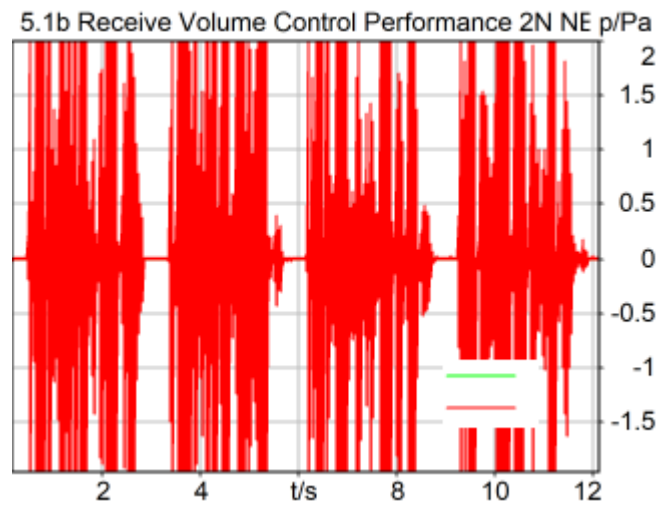


Delay (Cross): 152.2 ms

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5.1b Receive Volume Control Performance 2N NB

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



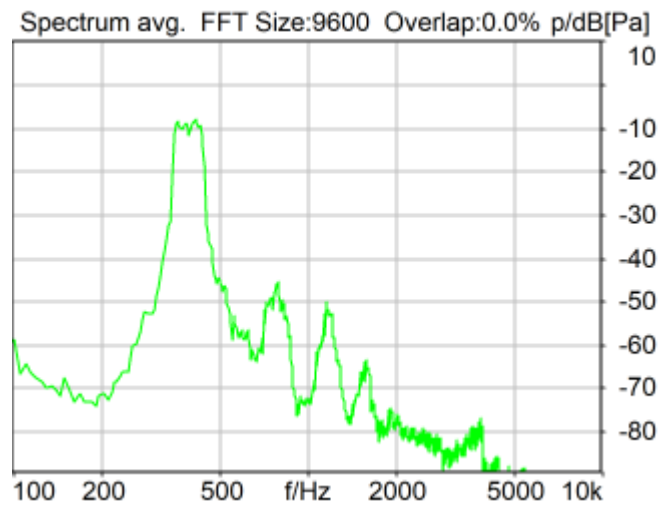
Speech Level RCV: 93.04 dB[SPL], Act.: 80.52% Ok

Ok

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5.2 RCV Distortion and Noise - 400 Hz NB

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



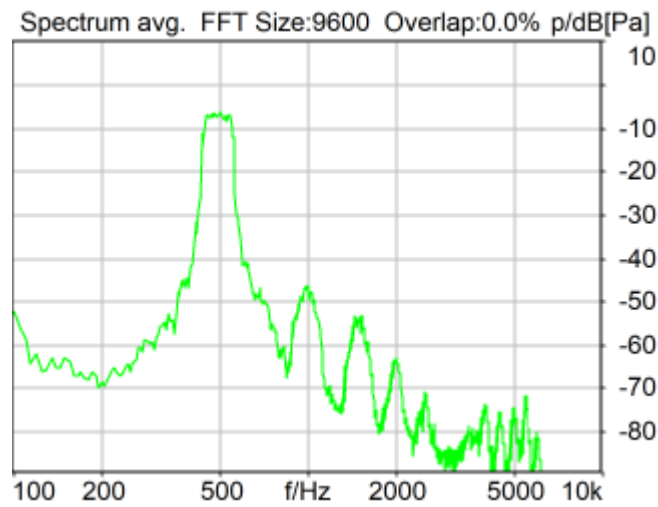
Distortion (Noise) RCV (packed): 35.71 dB (1.64%) Ok

Ok

2/4/2024 1:54 PM 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



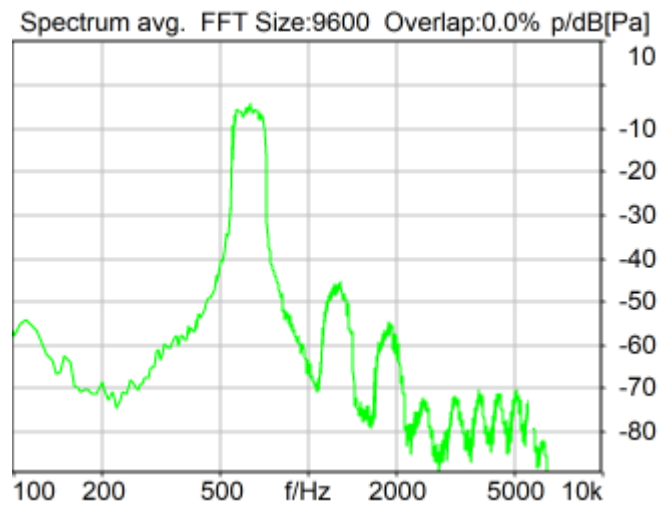
Distortion (Noise) RCV (packed): 35.49 dB (1.68%) Ok

Ok

2/4/2024 1:55 PM 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



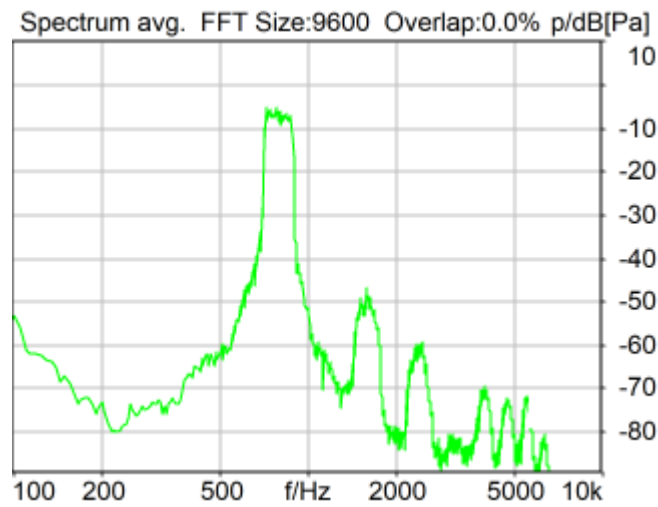
Distortion (Noise) RCV (packed): 36.23 dB (1.54%) Ok

Ok

2/4/2024 1:55 PM 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



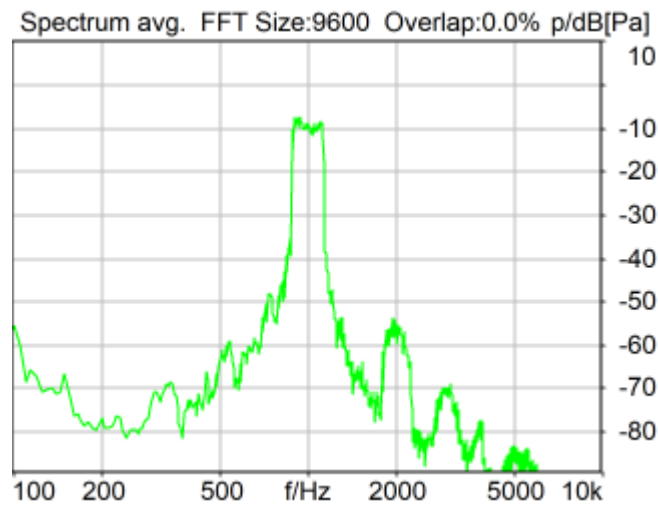
Distortion (Noise) RCV (packed): 37.48 dB (1.34%) Ok

Ok

2/4/2024 1:55 PM 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



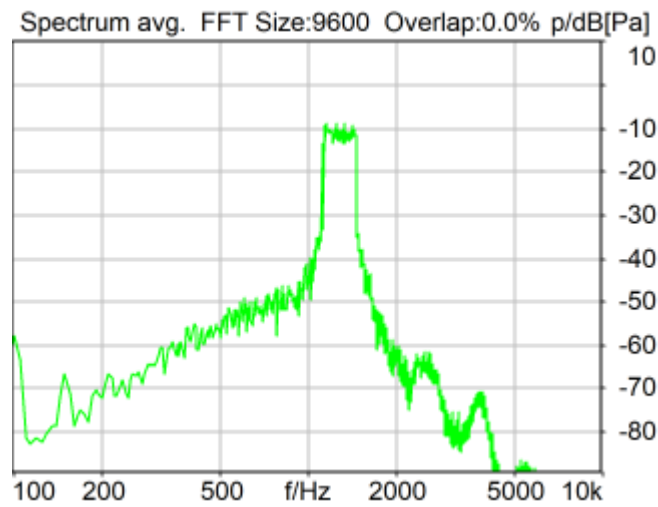
Distortion (Noise) RCV (packed): 37.69 dB (1.30%) Ok

Ok

2/4/2024 1:56 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz NB

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



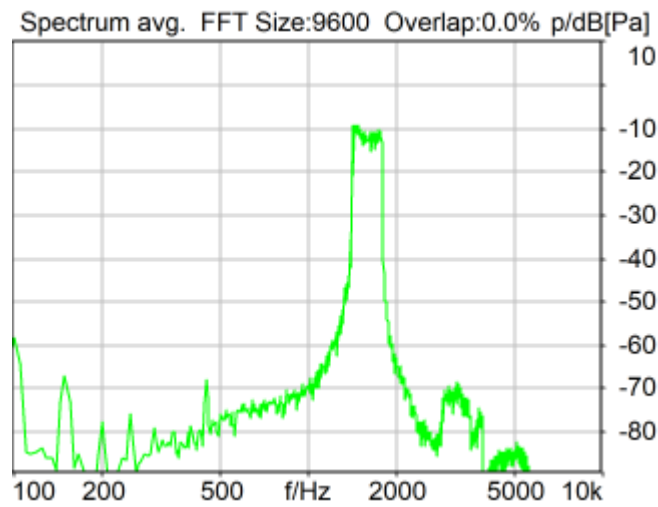
Distortion (Noise) RCV (packed): 27.69 dB (4.13%) Ok

Ok

2/4/2024 1:56 PM 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



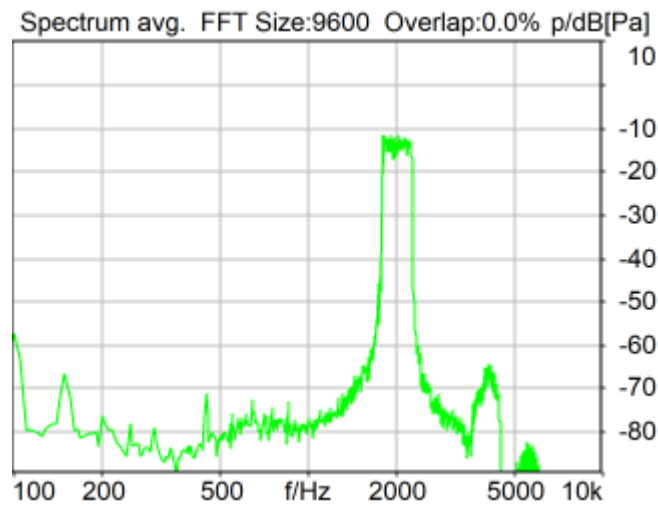
Distortion (Noise) RCV (packed): 40.70 dB (0.92%) Ok

Ok

2/4/2024 1:57 PM 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



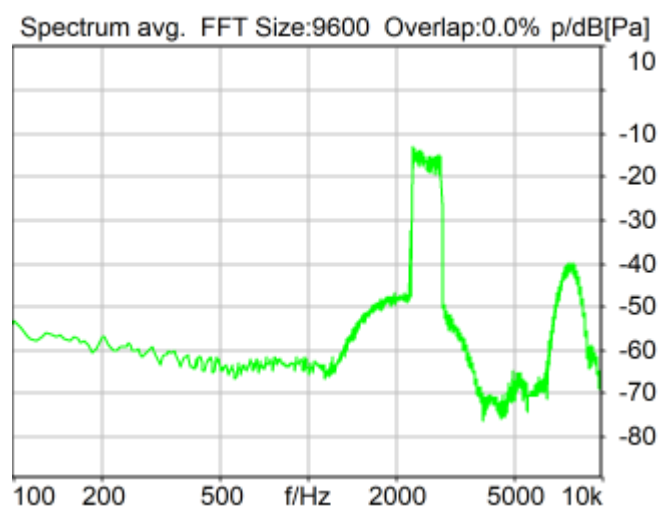
Distortion (Noise) RCV (packed): 43.57 dB (0.66%) Ok

Ok

2/4/2024 1:57 PM 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



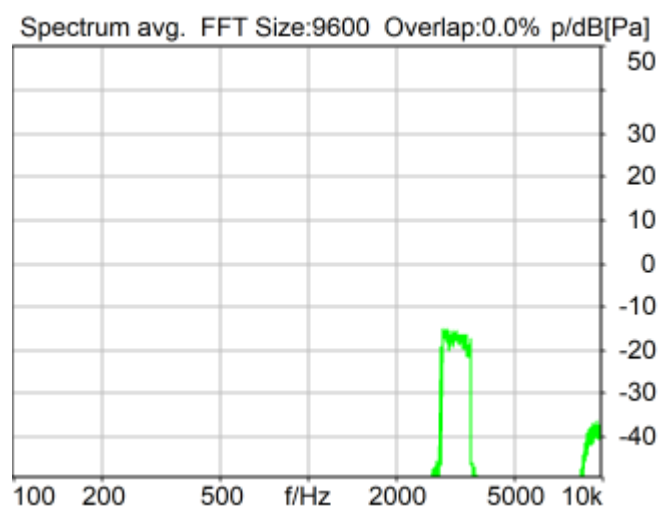
Distortion (Noise) RCV (packed): 22.22 dB (7.75%) Ok

Ok

2/4/2024 1:58 PM 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): 20.08 dB (9.91%) Ok

Ok

2/4/2024 1:58 PM 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	35.71 dB
2	500Hz	35.49 dB
3	630Hz	36.23 dB
4	800Hz	37.48 dB
5	1000Hz	37.69 dB
6	1250Hz	27.69 dB
7	1600Hz	40.70 dB
8	2000Hz	43.57 dB
9	2500Hz	22.22 dB
10	3150Hz	20.08 dB

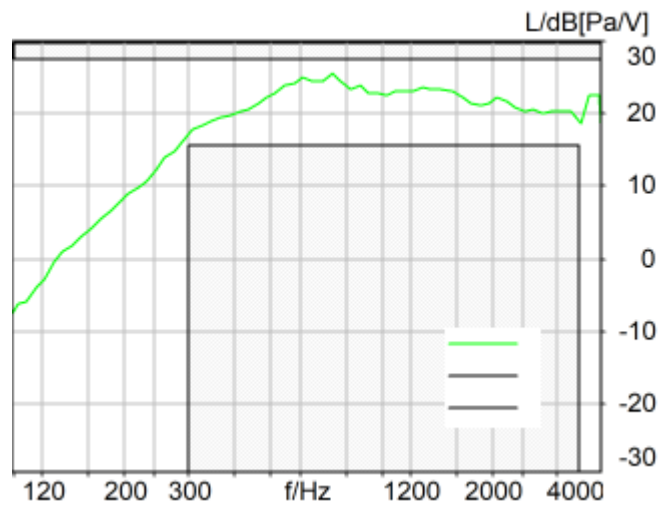
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.08dB at 3150Hz.

2/4/2024 2:01 PM ACQUA

5.3 Frequency Response 2N FF HANB

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



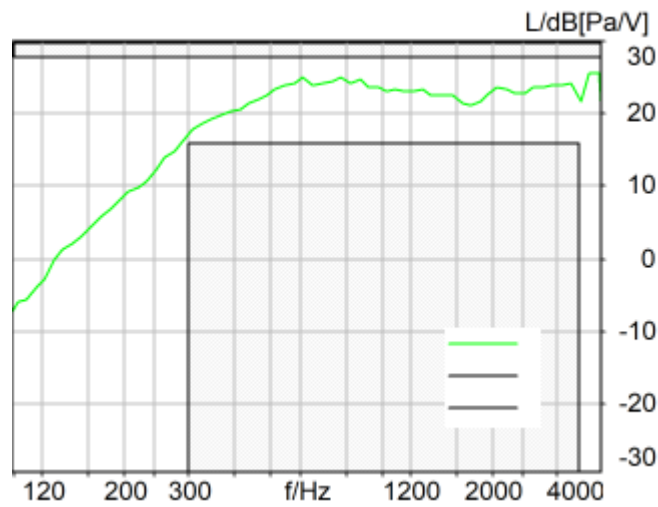
Absolute minimal distance
2.15 dB at 731.5 Hz Ok

Ok

2/4/2024 2:01 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
2.10 dB at 3657.5 Hz Ok

Ok

2/4/2024 2:02 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n7_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch507000_8N
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Project	411619
Report Generation Date	2/19/2024 3:08 PM
Responsible Person	AC01-KS

Status Overview

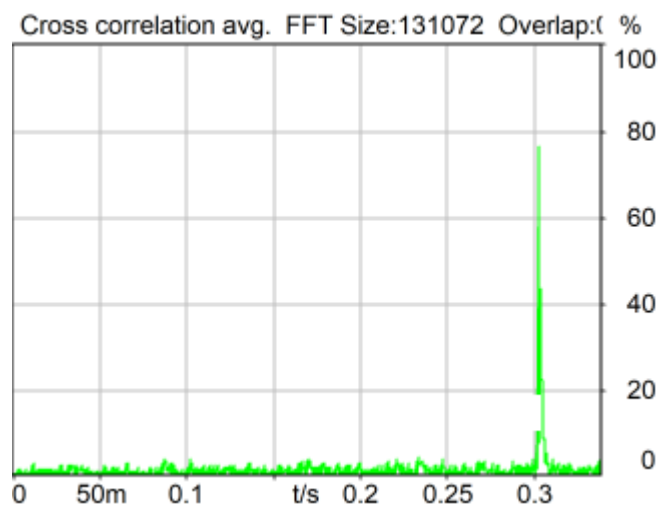
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	303.7	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	95.25	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	31.51	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.33	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.75	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.67	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.11	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.02	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.71	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.35	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	53.72	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.25	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	24.62	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	23.72	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	20.04	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.38	FR1 n7_40M_QPSK_1RB_1Offset_E VS WB 128kbps_Ch507000_8N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	20.04	FR1

and Noise (Conversational Gain)		(occured at 4000Hz)		n7_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch507000_8N
5.3 Frequency Response 8N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.79	FR1 n7_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch507000_8N
5.3 Frequency Response 8N DF	Ok	Min. dist. to tolerance scheme [dB], 5443.6 Hz	2.36	FR1 n7_40M_QPSK_1RB_1Offset_EVS WB 128kbps_Ch507000_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): 303.7 ms

2/19/2024 3:01 PM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N WB

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



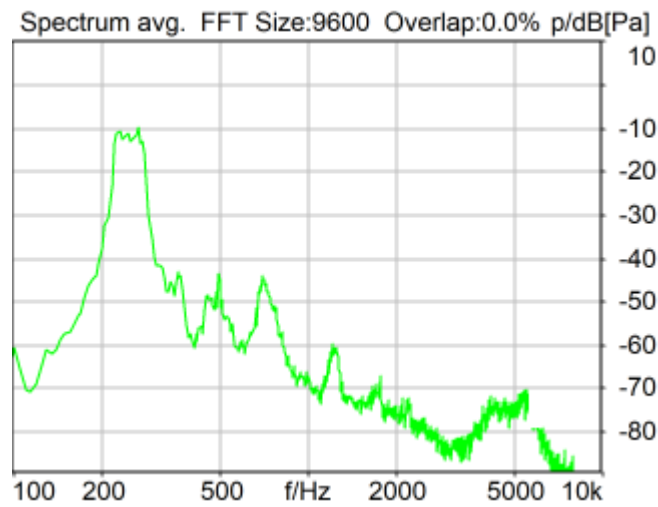
Speech Level RCV: 95.25 dB[SPL], Act.: 83.94% Ok

Ok

2/19/2024 2:38 PM 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



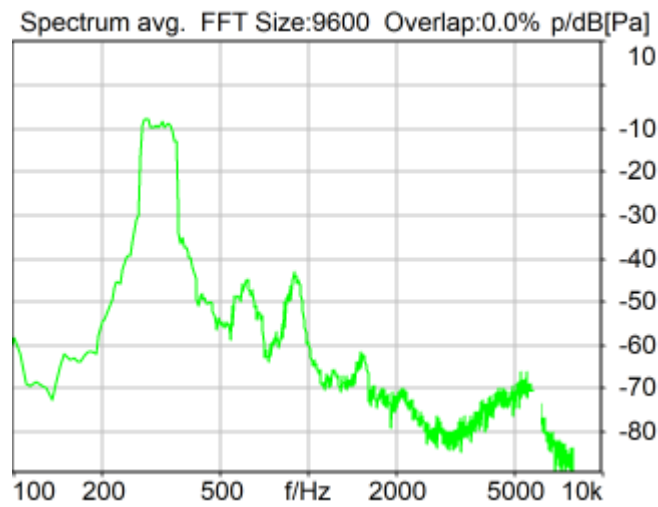
Distortion (Noise) RCV (packed): 31.51 dB (2.66%) Ok

Ok

2/19/2024 2:38 PM 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



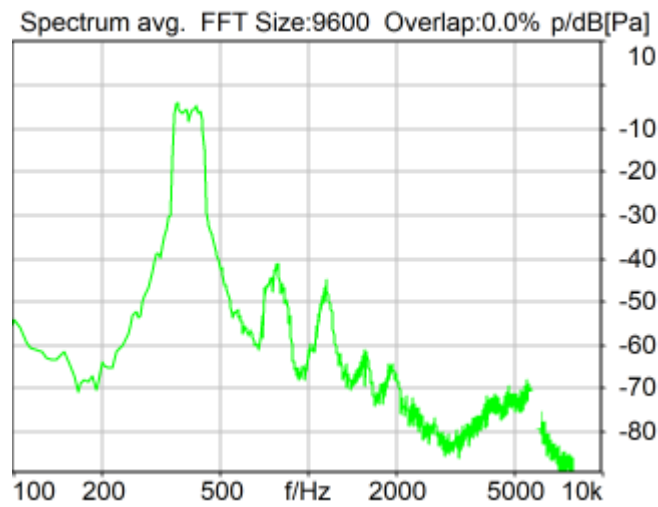
Distortion (Noise) RCV (packed): 32.33 dB (2.42%) Ok

Ok

2/19/2024 2:38 PM 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



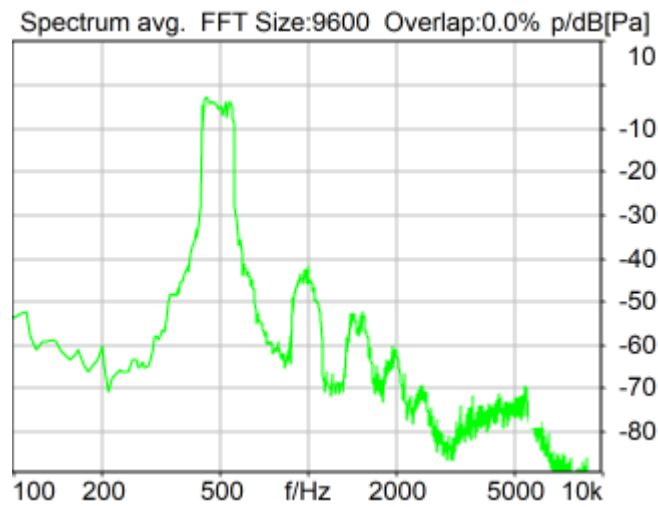
Distortion (Noise) RCV (packed): 34.75 dB (1.83%) Ok

Ok

2/19/2024 2:39 PM 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



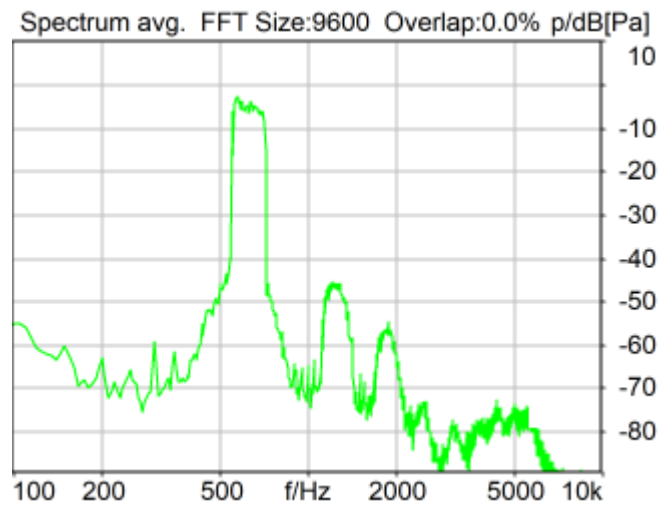
Distortion (Noise) RCV (packed): 36.67 dB (1.47%) Ok

Ok

2/19/2024 2:39 PM 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



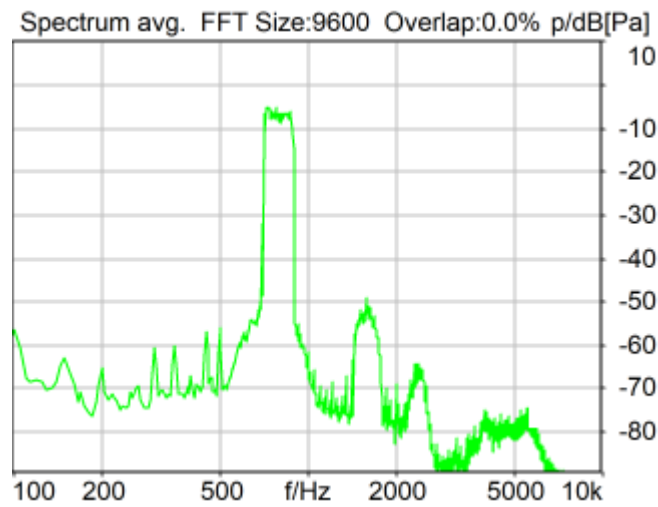
Distortion (Noise) RCV (packed): 39.11 dB (1.11%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz WB

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



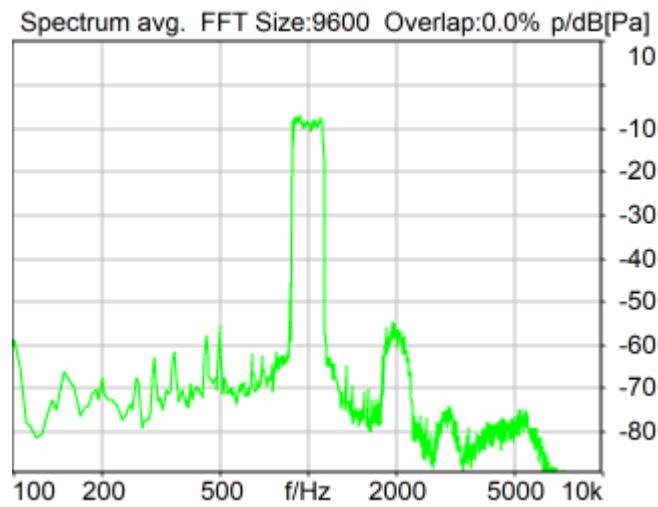
Distortion (Noise) RCV (packed): 43.02 dB (0.71%) Ok

Ok

2/19/2024 2:40 PM 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



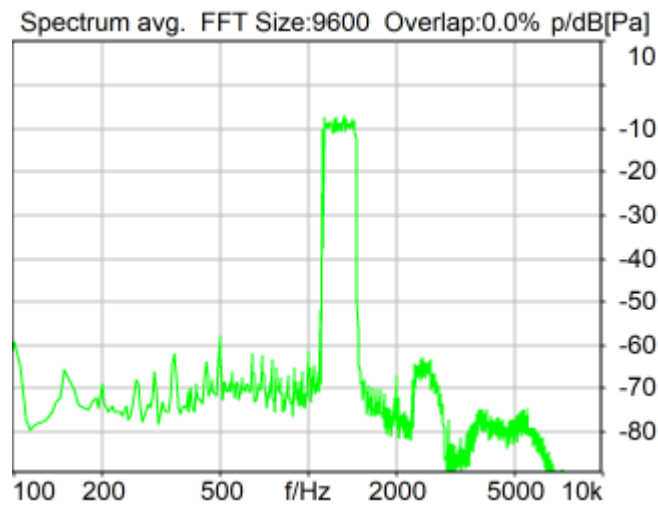
Distortion (Noise) RCV (packed): 45.71 dB (0.52%) Ok

Ok

2/19/2024 2:41 PM 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



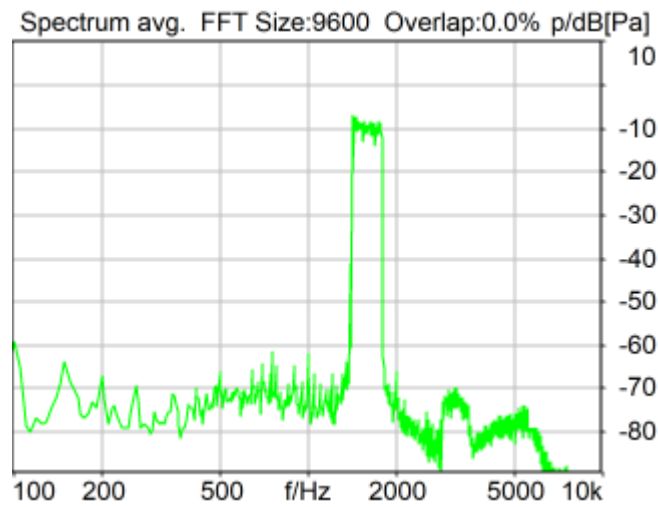
Distortion (Noise) RCV (packed): 34.35 dB (1.92%) Ok

Ok

2/19/2024 2:41 PM 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



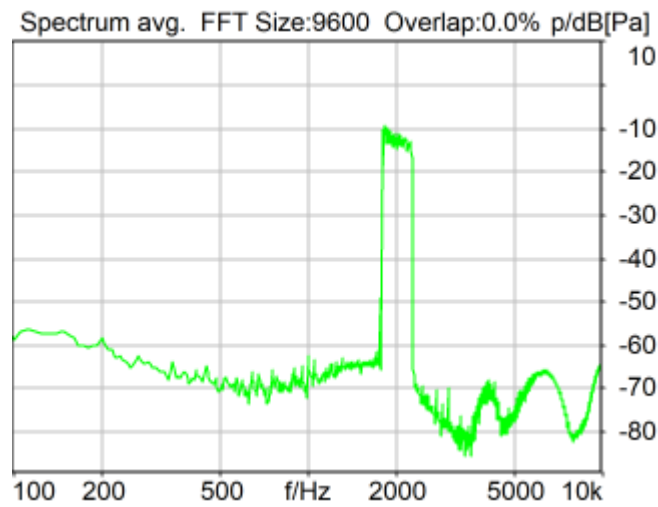
Distortion (Noise) RCV (packed): 53.72 dB (0.21%) Ok

Ok

2/19/2024 2:41 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



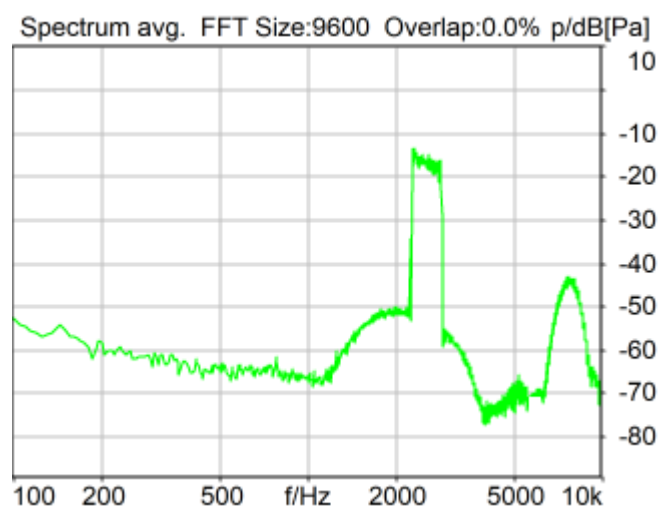
Distortion (Noise) RCV (packed): 43.25 dB (0.69%) Ok

Ok

2/19/2024 2:42 PM 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



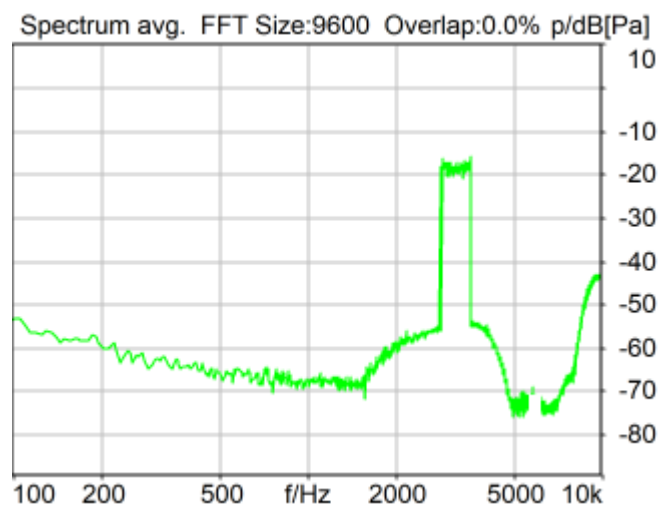
Distortion (Noise) RCV (packed): 24.62 dB (5.88%) Ok

Ok

2/19/2024 2:42 PM 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



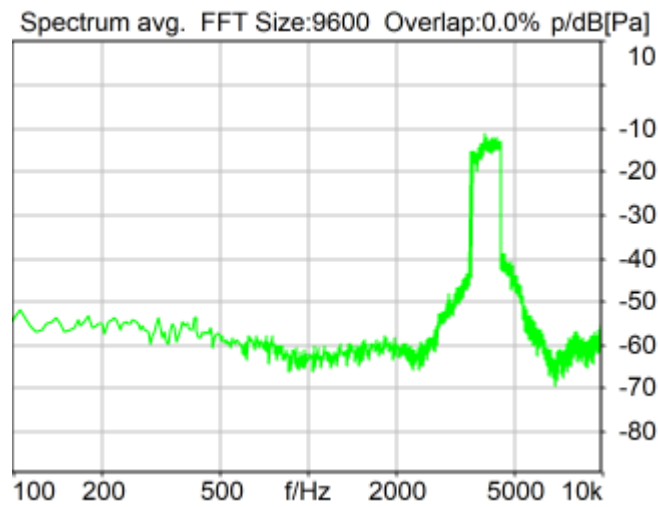
Distortion (Noise) RCV (packed): 23.72 dB (6.52%) Ok

Ok

2/19/2024 2:43 PM 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



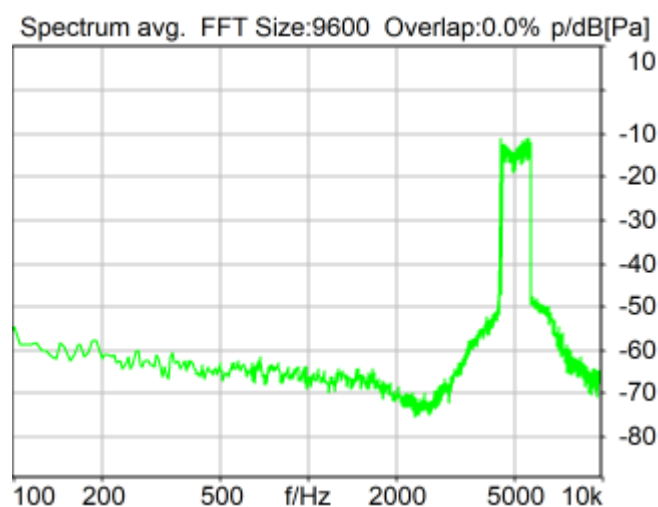
Distortion (Noise) RCV (packed): 20.04 dB (9.95%) Ok

Ok

2/19/2024 3:07 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 5000 Hz WB

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



Distortion (Noise) RCV (packed): 30.38 dB (3.03%) Ok

Ok

2/19/2024 2:44 PM 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	31.51 dB
2	315Hz	32.33 dB
3	400Hz	34.75 dB
4	500Hz	36.67 dB
5	630Hz	39.11 dB
6	800Hz	43.02 dB
7	1000Hz	45.71 dB
8	1250Hz	34.35 dB
9	1600Hz	53.72 dB
10	2000Hz	43.25 dB
11	2500Hz	24.62 dB
12	3150Hz	23.72 dB
13	5000Hz	30.38 dB
14	4000Hz	20.04 dB

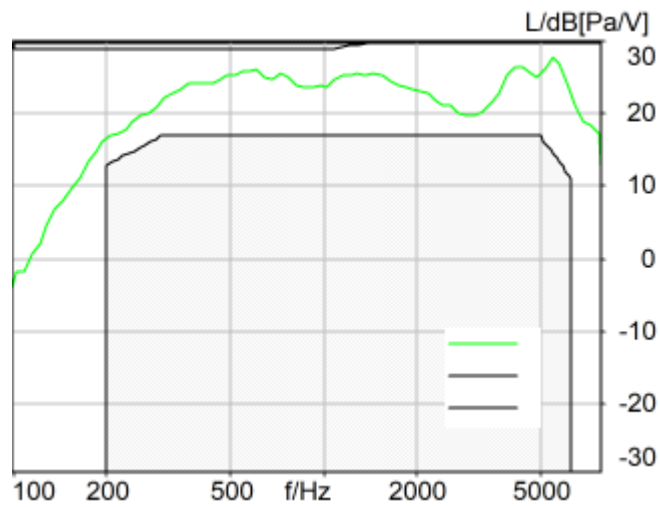
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.04dB at 4000Hz.

2/19/2024 3:07 PM ACQUA

5.3 Frequency Response 8N FF

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



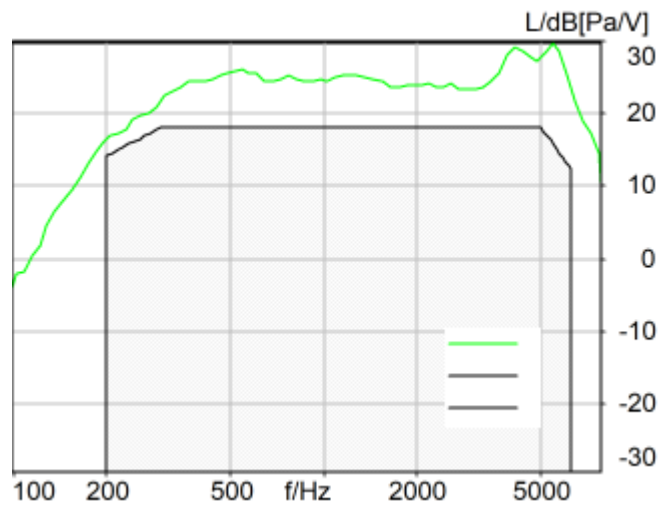
Absolute minimal distance
2.79 dB at 611.7 Hz Ok

Ok

2/19/2024 2:52 PM ACQUA 5.1.200

5.3 Frequency Response 8N DF

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



Absolute minimal distance
2.36 dB at 5443.6 Hz Ok

Ok

2/19/2024 2:52 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n26_20M_QPSK_1RB_1Offset_EVS NB 24.4kbps_Ch166300_2N
--------------------	--

Project	411619
Report Generation Date	2/20/2024 1:53 PM
Responsible Person	AC01-KS

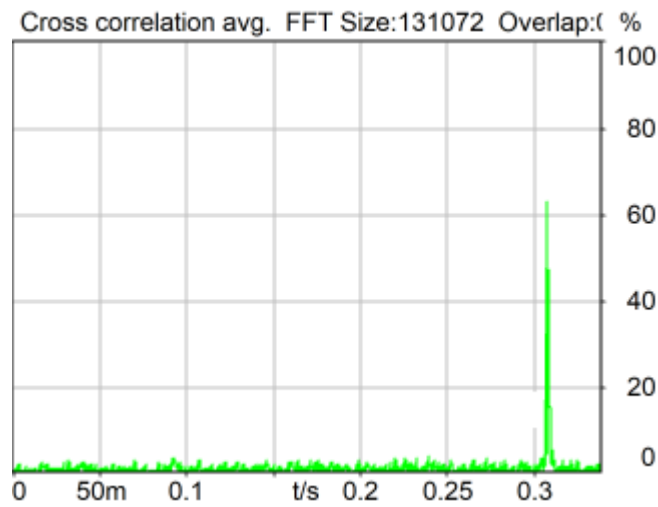
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	308.6	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	93.05	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.43	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.88	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.83	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.49	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.54	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.44	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.57	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	44.57	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	22.32	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.03	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 3150Hz)	20.03	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.37	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	1.99	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch166300_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

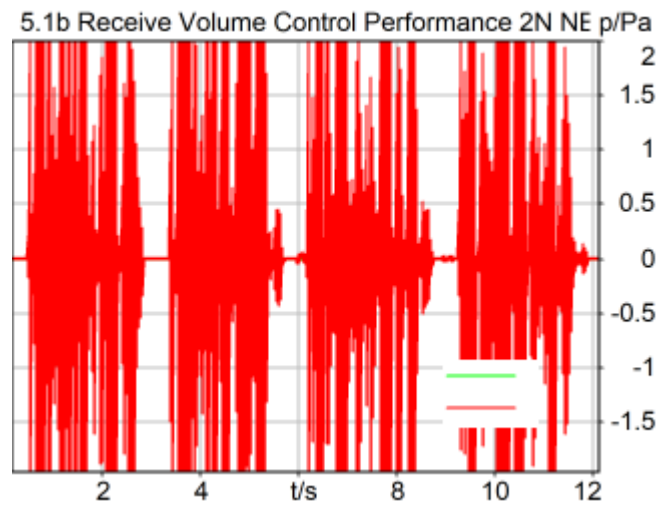


Delay (Cross): 308.6 ms

2/20/2024 1:45 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



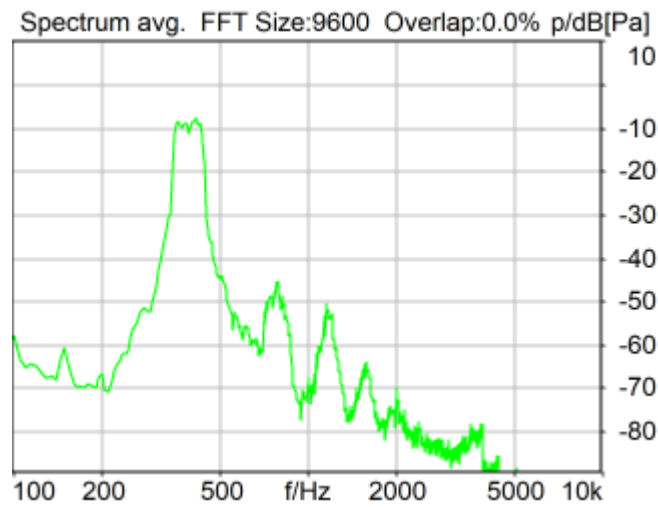
Speech Level RCV: 93.05 dB[SPL], Act.: 80.55% Ok

Ok

2/20/2024 1:46 PM 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



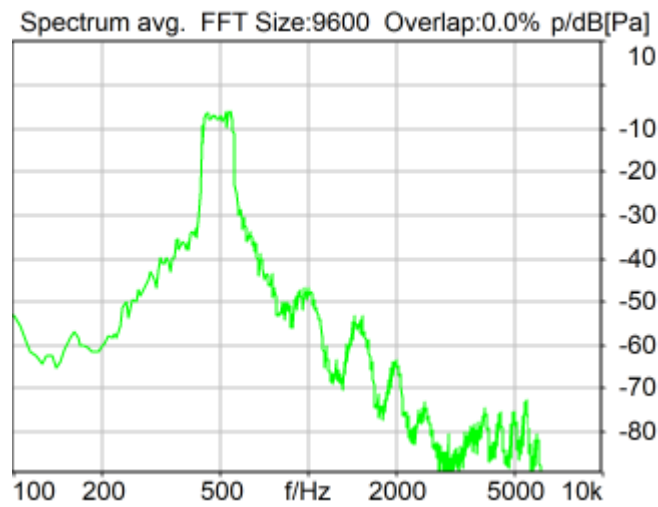
Distortion (Noise) RCV (packed): 35.43 dB (1.69%) Ok

Ok

2/20/2024 1:46 PM 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



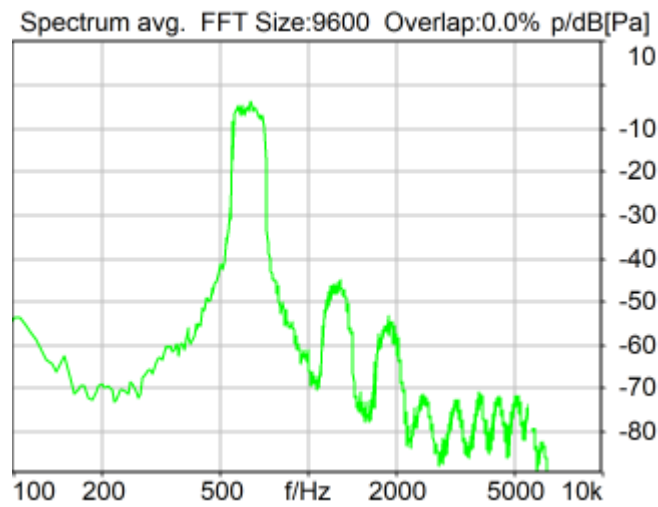
Distortion (Noise) RCV (packed): 28.88 dB (3.60%) Ok

Ok

2/20/2024 1:47 PM 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



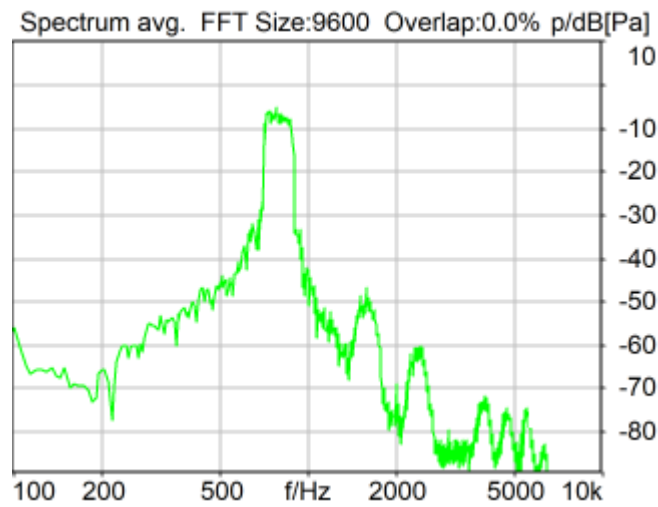
Distortion (Noise) RCV (packed): 36.83 dB (1.44%) Ok

Ok

2/20/2024 1:47 PM 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



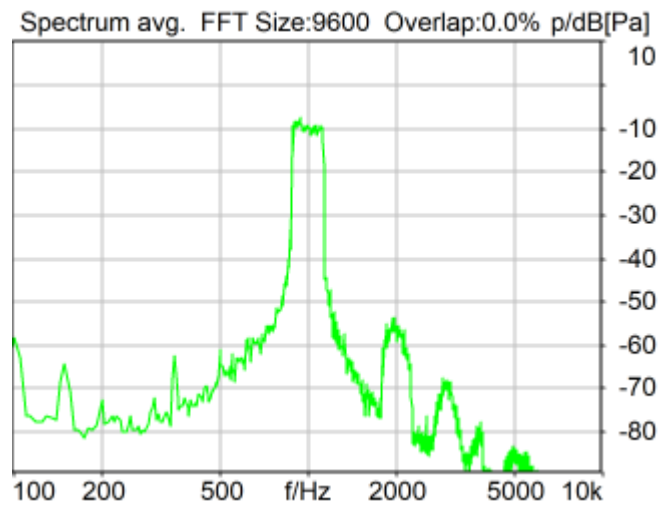
Distortion (Noise) RCV (packed): 30.49 dB (2.99%) Ok

Ok

2/20/2024 1:48 PM 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



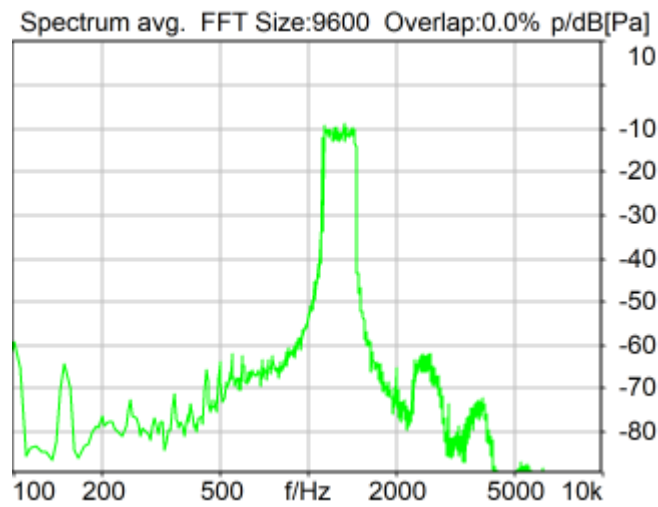
Distortion (Noise) RCV (packed): 39.54 dB (1.05%) Ok

Ok

2/20/2024 1:48 PM 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



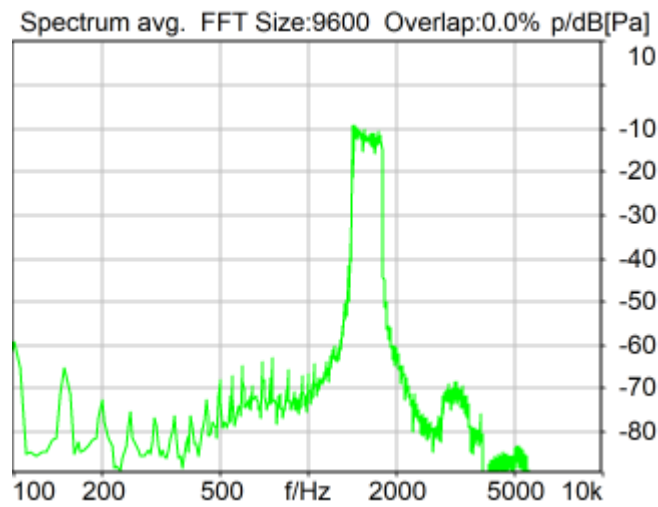
Distortion (Noise) RCV (packed): 32.44 dB (2.39%) Ok

Ok

2/20/2024 1:48 PM 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



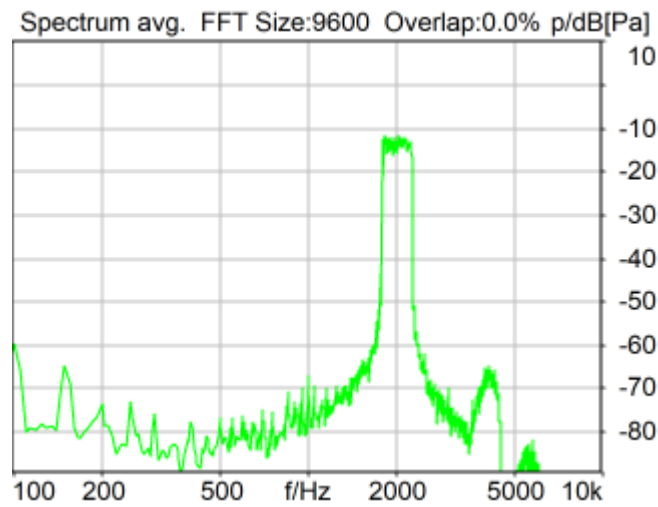
Distortion (Noise) RCV (packed): 42.57 dB (0.74%) Ok

Ok

2/20/2024 1:49 PM 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



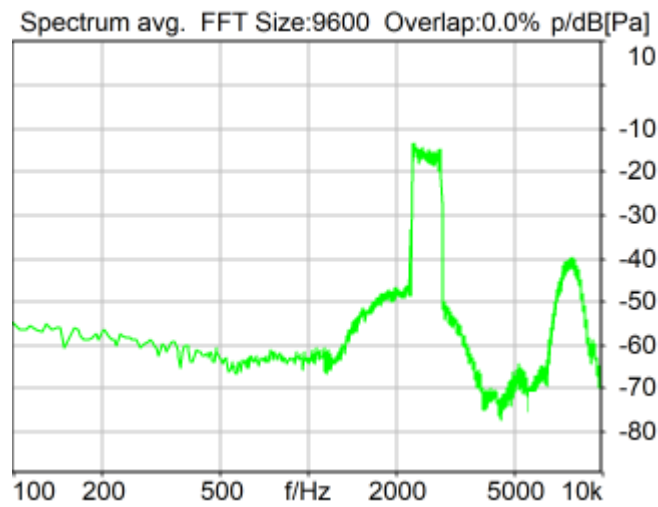
Distortion (Noise) RCV (packed): 44.57 dB (0.59%) Ok

Ok

2/20/2024 1:49 PM 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



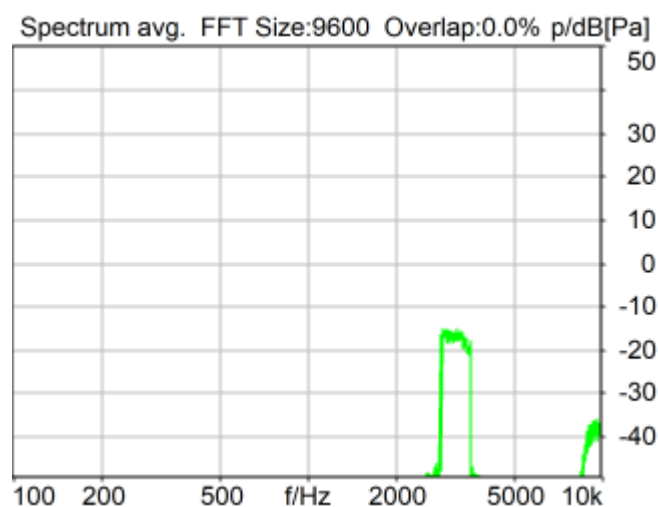
Distortion (Noise) RCV (packed): 22.32 dB (7.65%) Ok

Ok

2/20/2024 1:50 PM 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): 20.03 dB (9.96%) Ok

Ok

2/20/2024 1:50 PM 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	35.43 dB
2	500Hz	28.88 dB
3	630Hz	36.83 dB
4	800Hz	30.49 dB
5	1000Hz	39.54 dB
6	1250Hz	32.44 dB
7	1600Hz	42.57 dB
8	2000Hz	44.57 dB
9	2500Hz	22.32 dB
10	3150Hz	20.03 dB

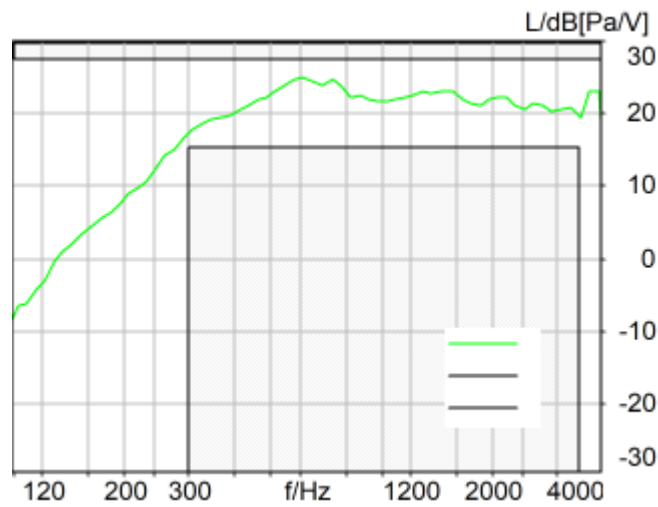
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 20.03dB at 3150Hz.

2/20/2024 1:51 PM ACQUA

5.3 Frequency Response 2N FF HANB

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



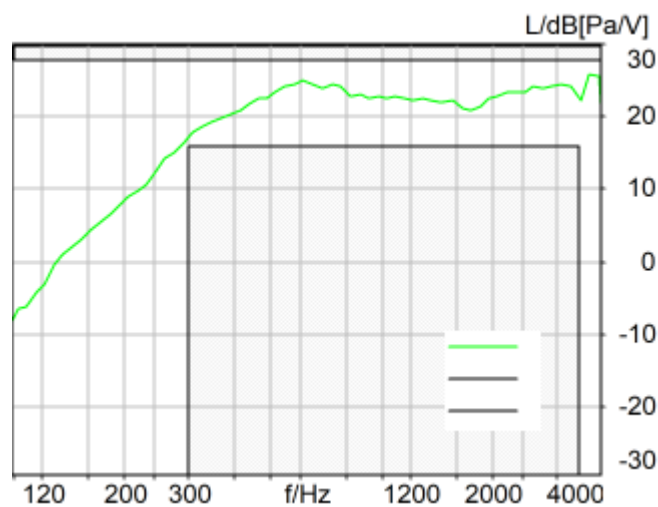
Absolute minimal distance
2.37 dB at 611.7 Hz Ok

Ok

2/20/2024 1:51 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.99 dB at 305.9 Hz Ok

Ok

2/20/2024 1:52 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
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Project	411619
Report Generation Date	2/23/2024 9:21 AM
Responsible Person	AC01-KS

Status Overview

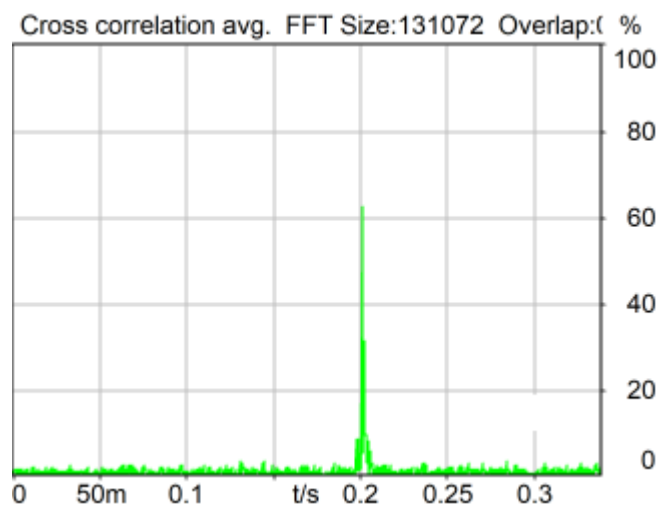
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	201.4	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	90.22	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.00	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.00	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.92	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.99	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.61	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.41	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.34	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	22.76	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.41	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.69	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.19	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	32.88	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.83	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	36.69	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	22.76	WLAN5GHz_802.11a

and Noise (Conversational Gain)		(occured at 1250Hz)		6Mbps_EVS WB 128kbps_Ch60_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.97	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	1.08	WLAN5GHz_802.11a 6Mbps_EVS WB 128kbps_Ch60_2N

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

Overall Receive Delay WB

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

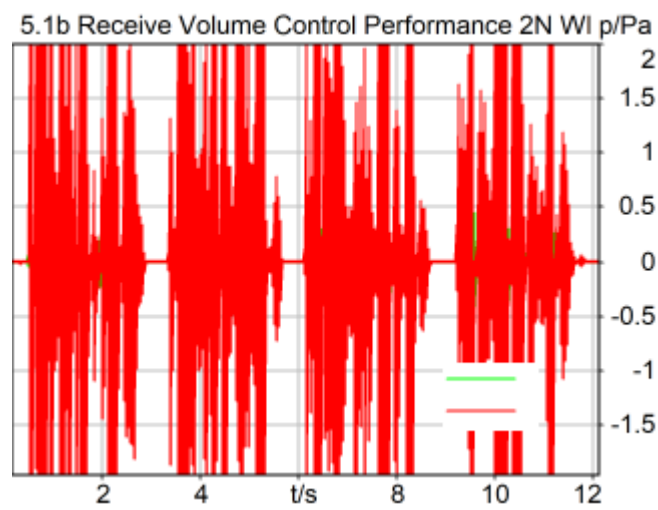


Delay (Cross): 201.4 ms

2/23/2024 9:13 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



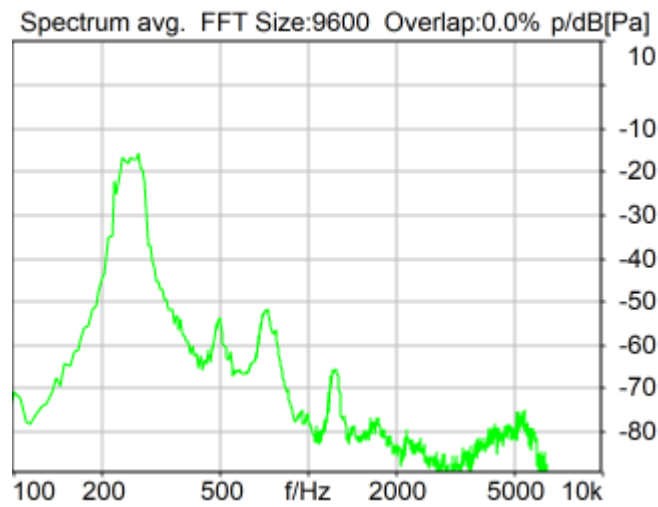
Speech Level RCV: 90.22 dB[SPL], Act.: 83.71% Ok

Ok

2/23/2024 9:14 AM 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



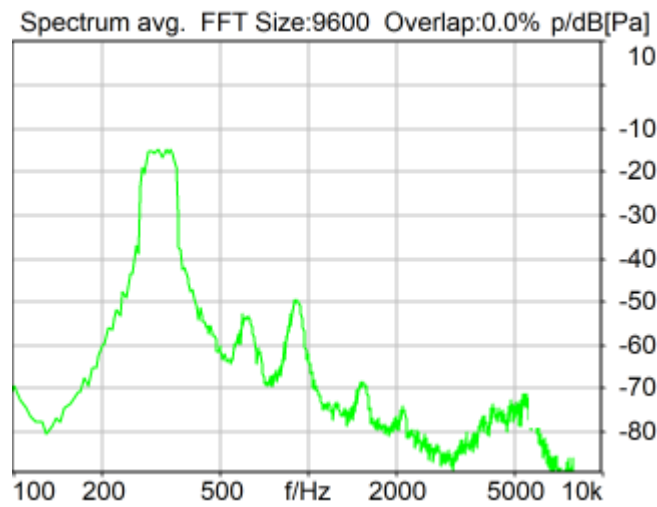
Distortion (Noise) RCV (packed): 32.00 dB (2.51%) Ok

Ok

2/23/2024 9:14 AM 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



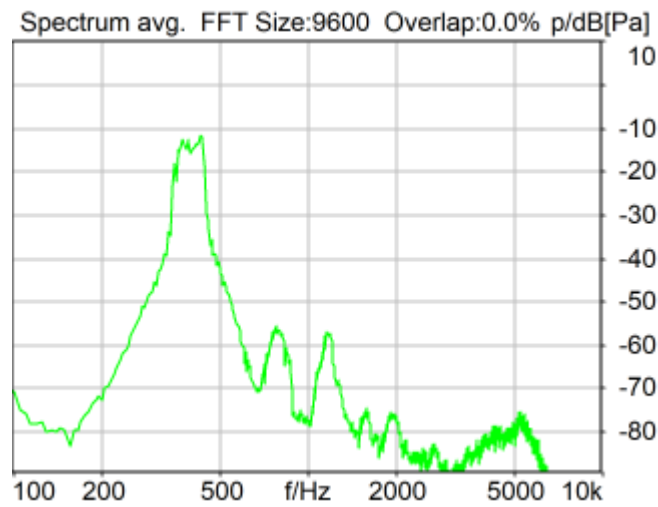
Distortion (Noise) RCV (packed): 32.00 dB (2.51%) Ok

Ok

2/23/2024 9:15 AM 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



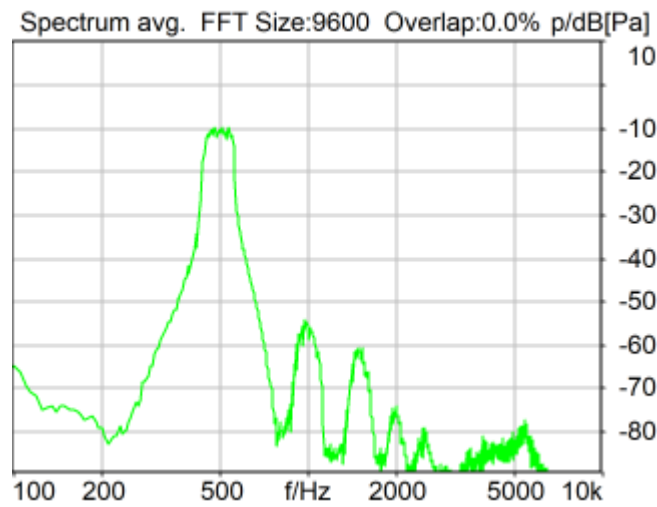
Distortion (Noise) RCV (packed): 32.92 dB (2.26%) Ok

Ok

2/23/2024 9:15 AM 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



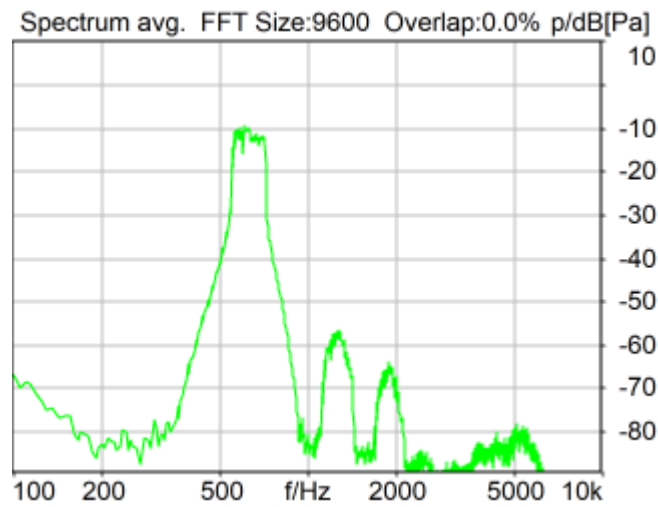
Distortion (Noise) RCV (packed): 33.99 dB (2.00%) Ok

Ok

2/23/2024 9:15 AM 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



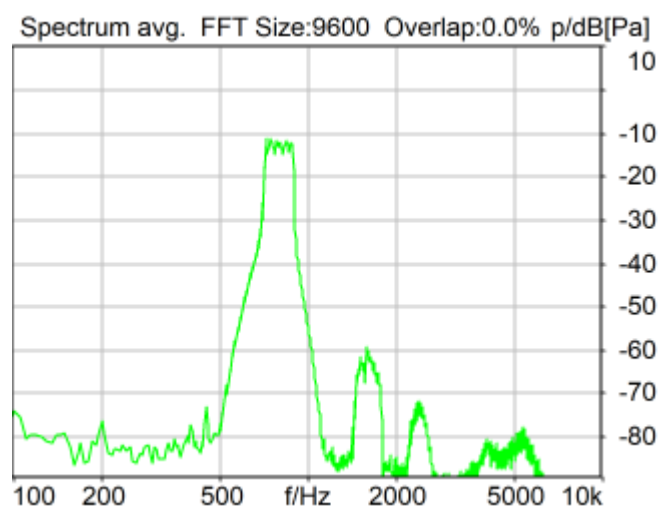
Distortion (Noise) RCV (packed): 33.61 dB (2.09%) Ok

Ok

2/23/2024 9:16 AM 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



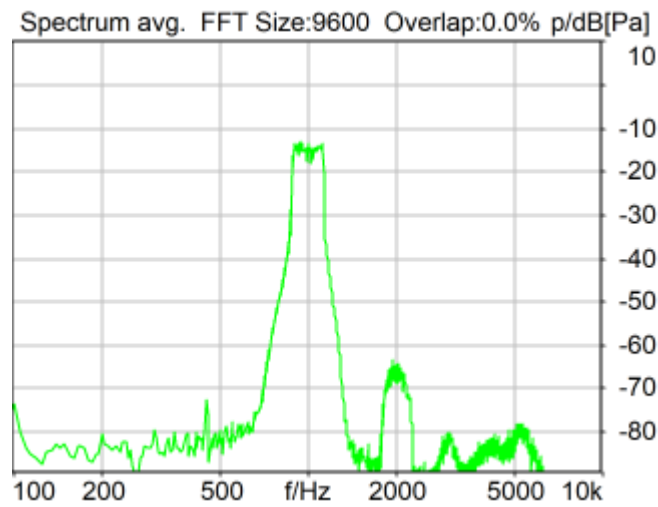
Distortion (Noise) RCV (packed): 33.41 dB (2.14%) Ok

Ok

2/23/2024 9:16 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



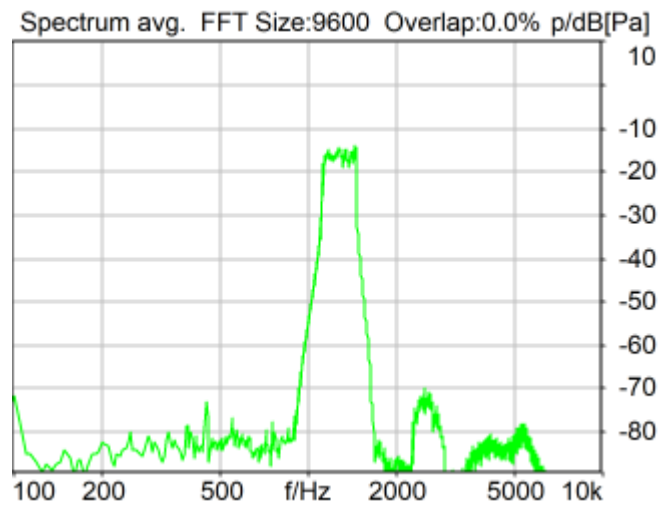
Distortion (Noise) RCV (packed): 32.34 dB (2.41%) Ok

Ok

2/23/2024 9:17 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



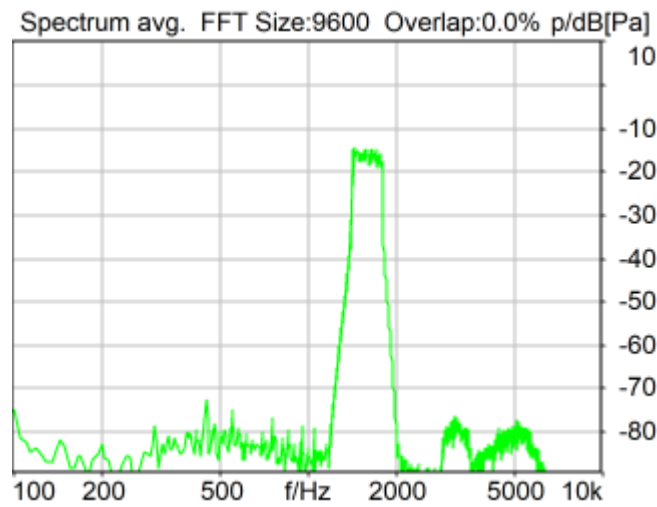
Distortion (Noise) RCV (packed): 22.76 dB (7.28%) Ok

Ok

2/23/2024 9:17 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



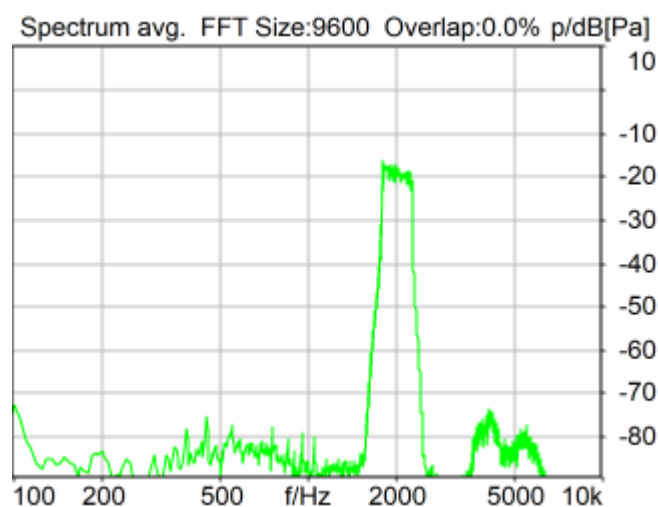
Distortion (Noise) RCV (packed): 34.41 dB (1.90%) Ok

Ok

2/23/2024 9:18 AM 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



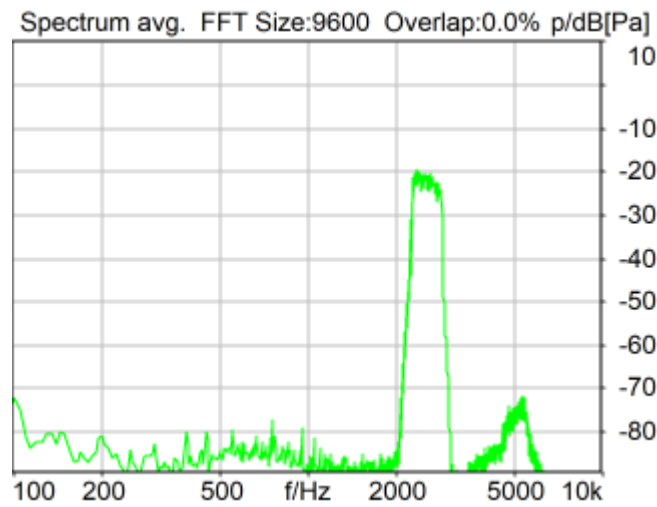
Distortion (Noise) RCV (packed): 32.69 dB (2.32%) Ok

Ok

2/23/2024 9:18 AM 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



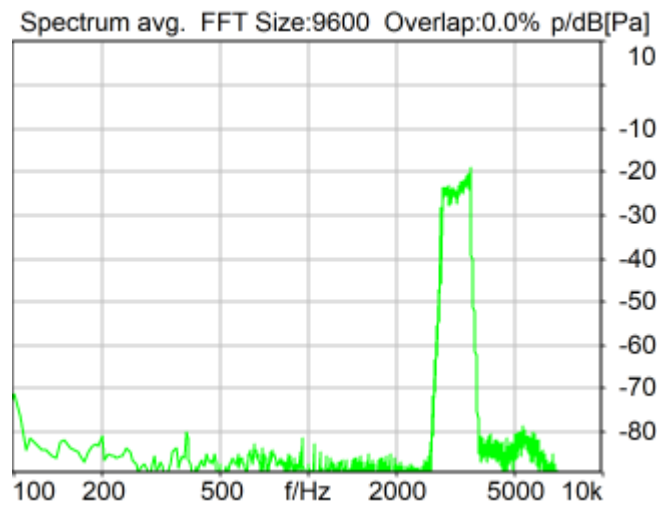
Distortion (Noise) RCV (packed): 33.19 dB (2.19%) Ok

Ok

2/23/2024 9:19 AM 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



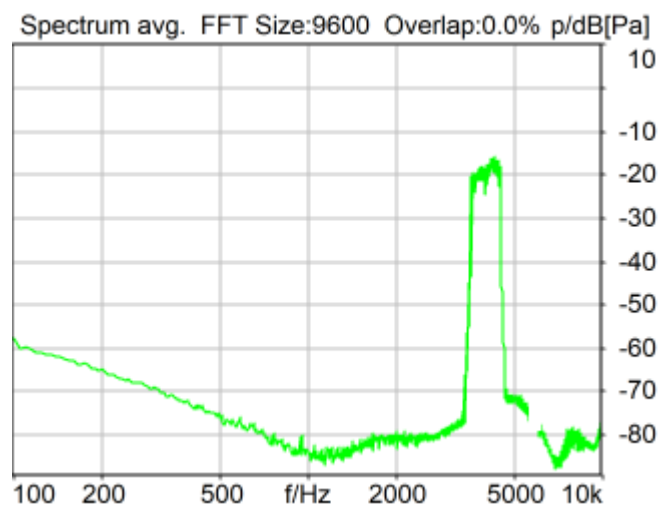
Distortion (Noise) RCV (packed): 32.88 dB (2.27%) Ok

Ok

2/23/2024 9:19 AM 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



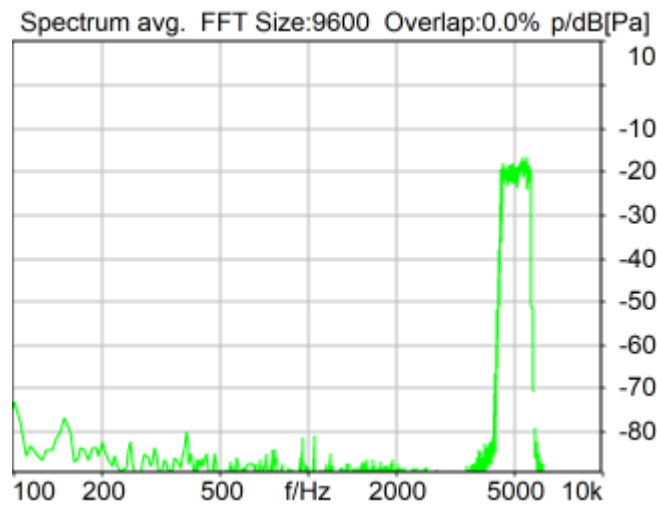
Distortion (Noise) RCV (packed): 36.83 dB (1.44%) Ok

Ok

2/23/2024 9:19 AM 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): 36.69 dB (1.46%) Ok

Ok

2/23/2024 9:20 AM 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	32.00 dB
2	315Hz	32.00 dB
3	400Hz	32.92 dB
4	500Hz	33.99 dB
5	630Hz	33.61 dB
6	800Hz	33.41 dB
7	1000Hz	32.34 dB
8	1250Hz	22.76 dB
9	1600Hz	34.41 dB
10	2000Hz	32.69 dB
11	2500Hz	33.19 dB
12	3150Hz	32.88 dB
13	4000Hz	36.83 dB
14	5000Hz	36.69 dB

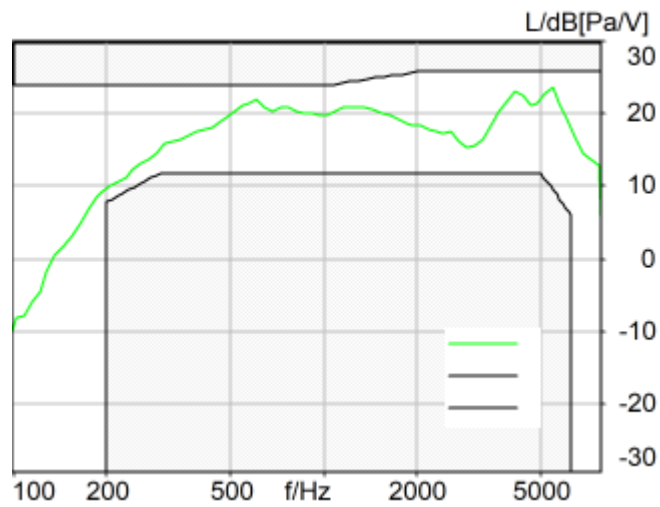
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 22.76dB at 1250Hz.

2/23/2024 9:20 AM ACQUA

5.3 Frequency Response 2N FF

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



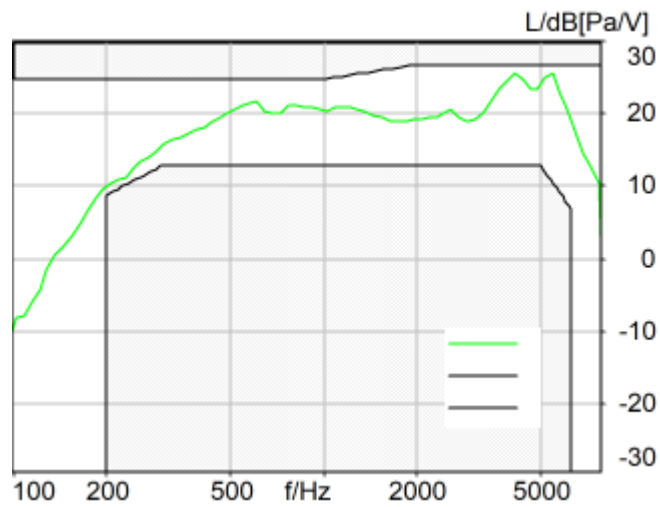
Absolute minimal distance
1.97 dB at 611.7 Hz Ok

Ok

2/23/2024 9:20 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.08 dB at 4119.5 Hz Ok

Ok

2/23/2024 9:21 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM850_GSM Voice_AMR WB 12.65kbps_Ch189_2N
--------------------	--

Project	411619
Report Generation Date	2/26/2024 8:57 AM
Responsible Person	AC01-KS

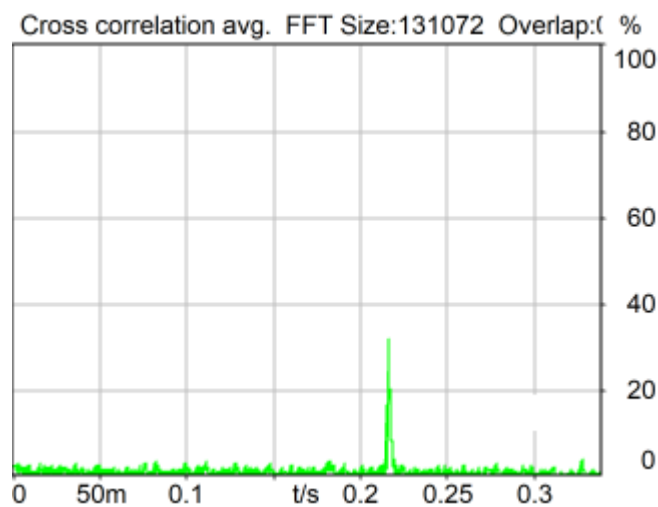
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	216.3	GSM850_GSM Voice_AMR WB 12.65kbps_Ch189_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	89.26	GSM850_GSM Voice_AMR WB 12.65kbps_Ch189_2N

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

Overall Receive Delay WB

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

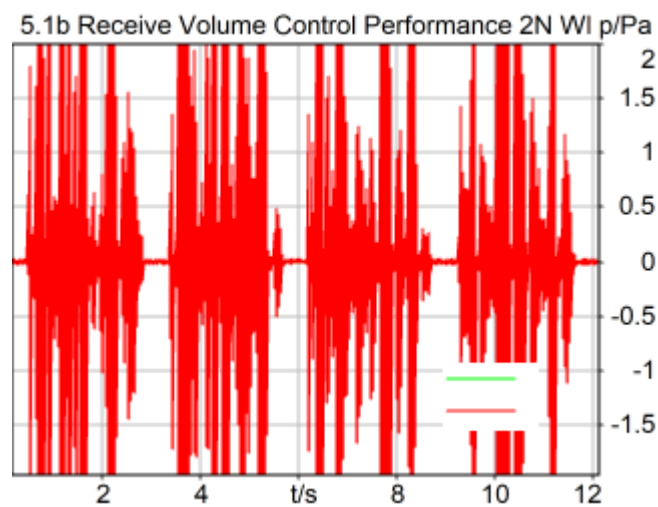


Delay (Cross): 216.3 ms

2/26/2024 8:56 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 89.26 dB[SPL], Act.: 80.78% Ok

Ok

2/26/2024 8:56 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA IV_Voice_AMR WB 6.6kbps_Ch1413_2N
--------------------	---

Project	411619
Report Generation Date	2/26/2024 11:09 AM
Responsible Person	AC01-KS

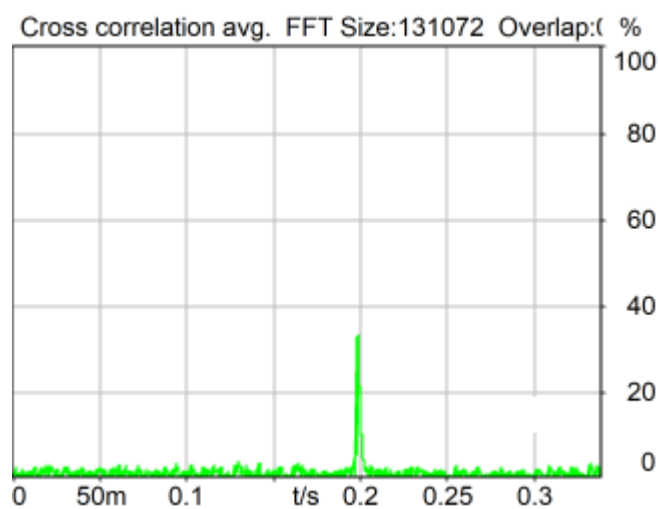
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	198.3	WCDMA IV_Voice_AMR WB 6. 6kbps_Ch1413_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	89.31	WCDMA IV_Voice_AMR WB 6. 6kbps_Ch1413_2N

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

Overall Receive Delay WB

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

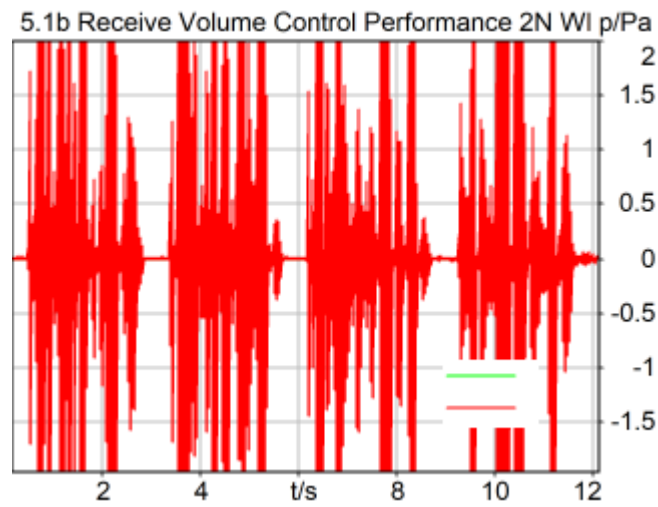


Delay (Cross): 198.3 ms

2/26/2024 11:09 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 89.31 dB[SPL], Act.: 80.26% Ok

Ok

2/26/2024 11:09 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
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Project	411619
Report Generation Date	2/5/2024 4:48 PM
Responsible Person	AC01-KS

Status Overview

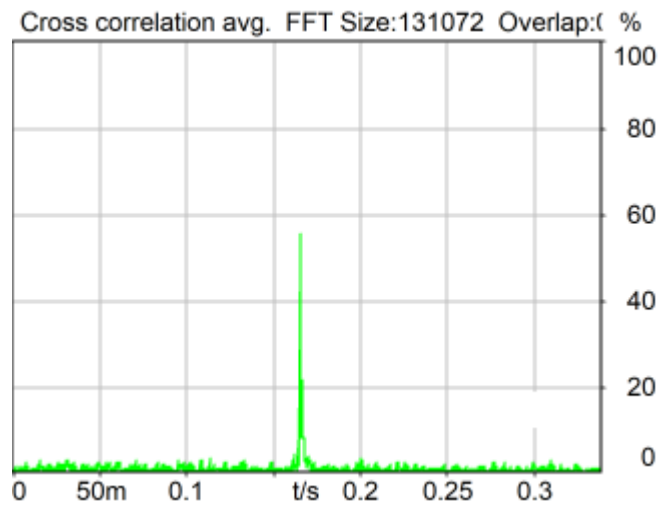
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	165.4	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.39	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	34.62	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.18	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.64	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	42.13	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.87	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.40	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	37.82	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	30.11	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.08	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.19	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.31	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.32	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	45.57	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.54	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
Report - Receive Distortion	Ok	Minimum SDNR [dB],	30.11	LTE

and Noise (Conversational Gain)		(occured at 1250Hz)		B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 205.7 Hz	2.85	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _Ch27710_2N
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4119.5 Hz	1.89	LTE B30_10M_QPSK_1RB_0Offset_EVS WB 128kbps _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

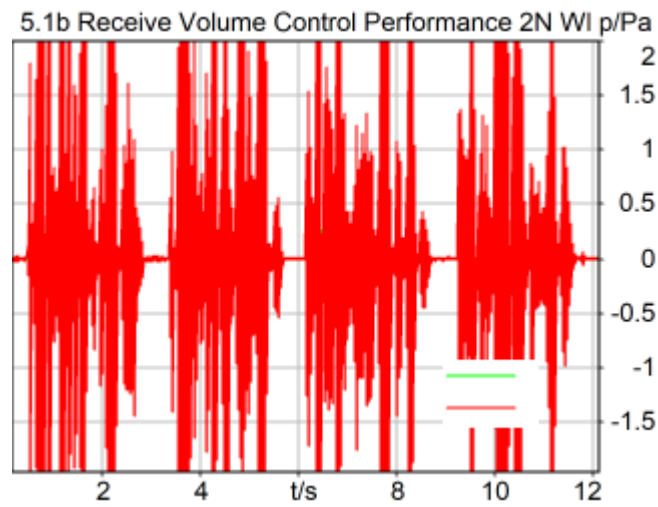


Delay (Cross): 165.4 ms

2/5/2024 4:09 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



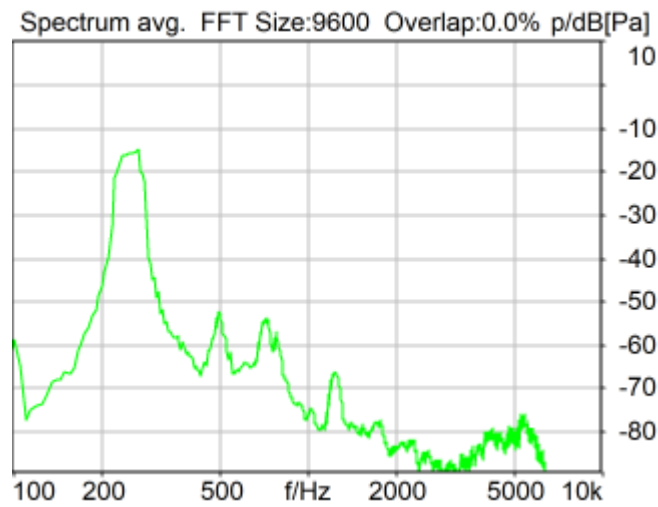
Speech Level RCV: 88.39 dB[SPL], Act.: 82.37% Ok

Ok

2/5/2024 4:10 PM 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



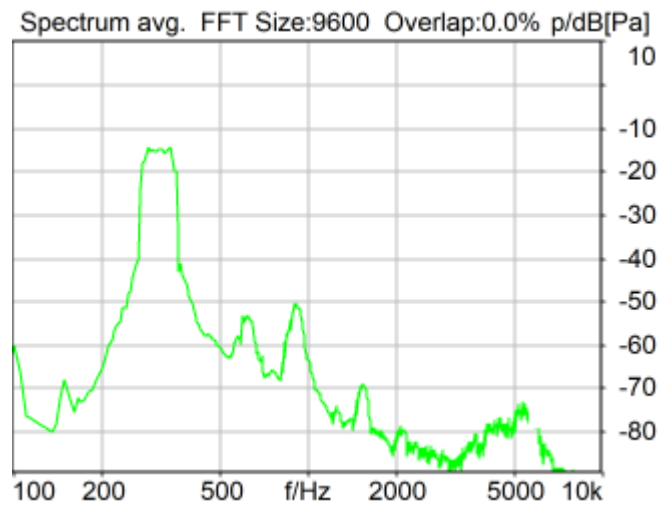
Distortion (Noise) RCV (packed): 34.62 dB (1.86%) Ok

Ok

2/5/2024 4:10 PM 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



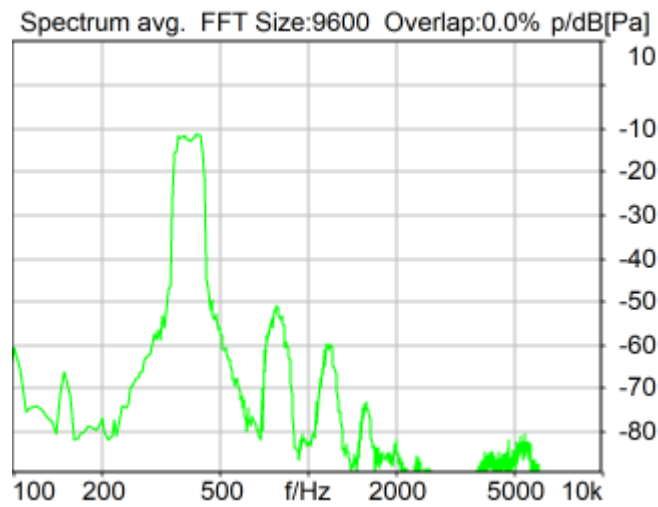
Distortion (Noise) RCV (packed): 33.18 dB (2.19%) Ok

Ok

2/5/2024 4:10 PM 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



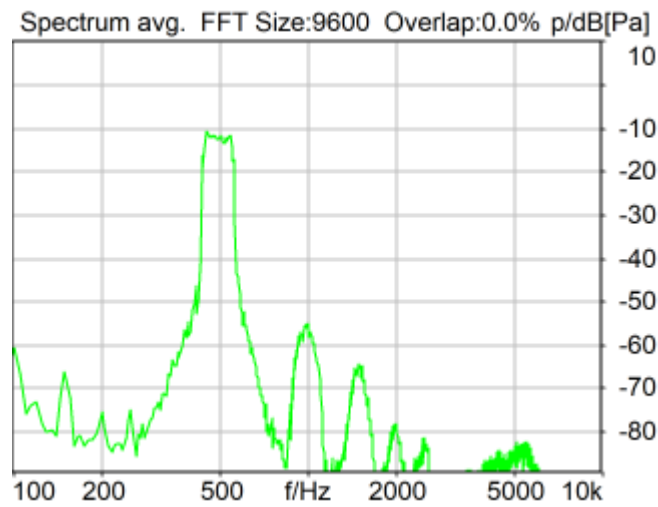
Distortion (Noise) RCV (packed): 39.64 dB (1.04%) Ok

Ok

2/5/2024 4:11 PM 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



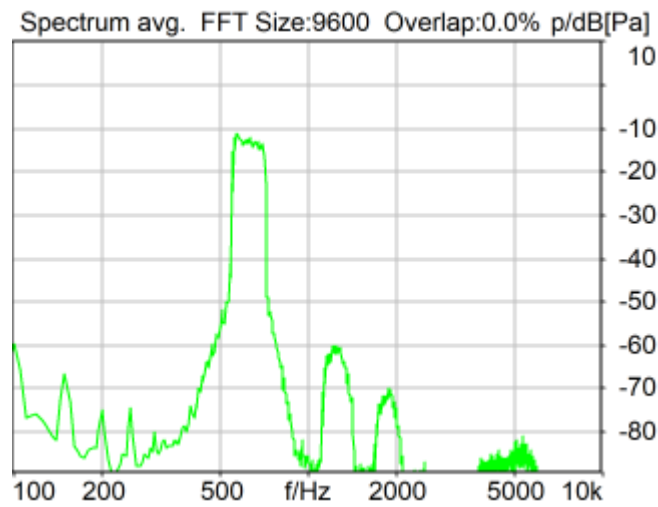
Distortion (Noise) RCV (packed): 42.13 dB (0.78%) Ok

Ok

2/5/2024 4:11 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz WB

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



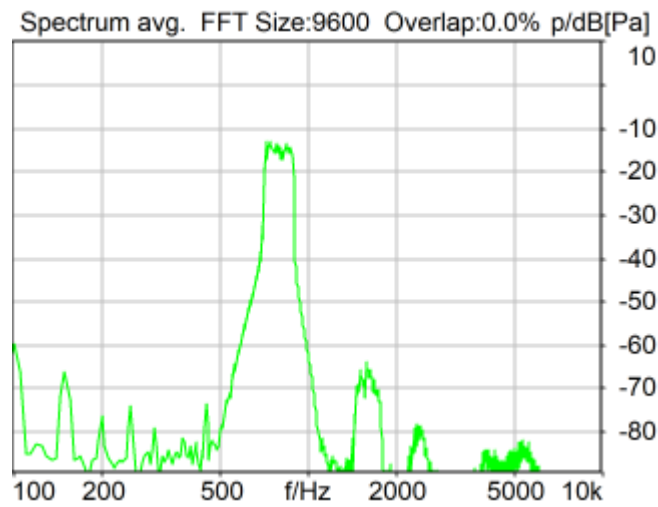
Distortion (Noise) RCV (packed): 43.87 dB (0.64%) Ok

Ok

2/5/2024 4:12 PM 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



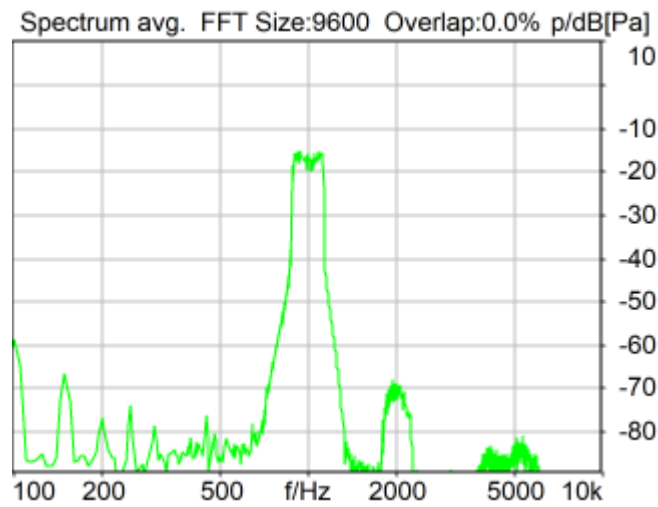
Distortion (Noise) RCV (packed): 38.40 dB (1.20%) Ok

Ok

2/5/2024 4:12 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz WB

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



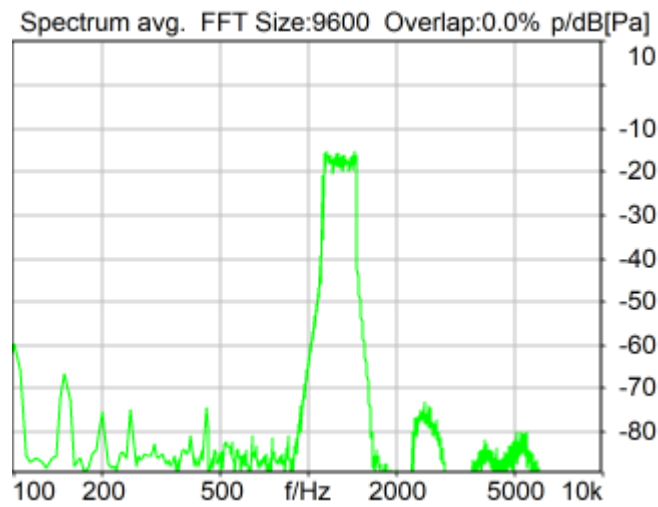
Distortion (Noise) RCV (packed): 37.82 dB (1.28%) Ok

Ok

2/5/2024 4:17 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz WB

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



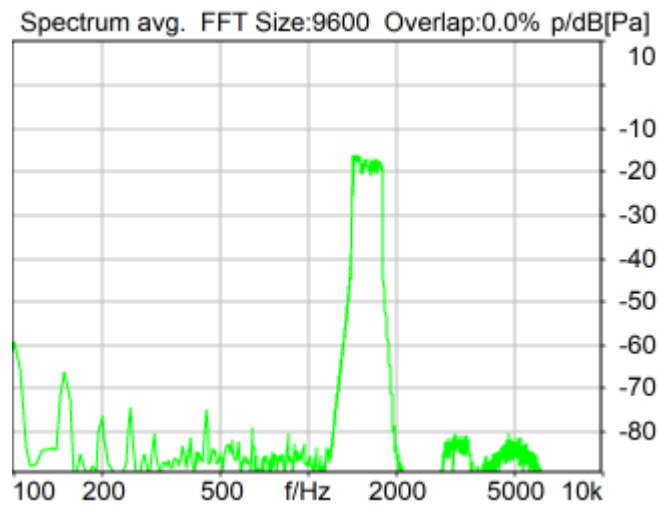
Distortion (Noise) RCV (packed): 30.11 dB (3.12%) Ok

Ok

2/5/2024 4:13 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz WB

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



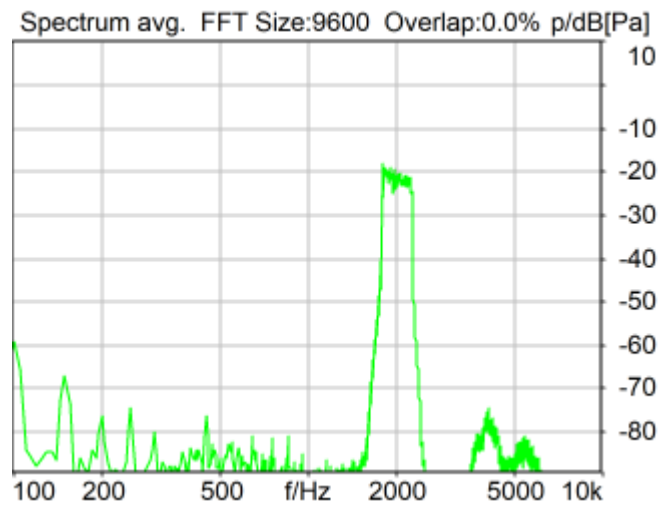
Distortion (Noise) RCV (packed): 40.08 dB (0.99%) Ok

Ok

2/5/2024 4:13 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz WB

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



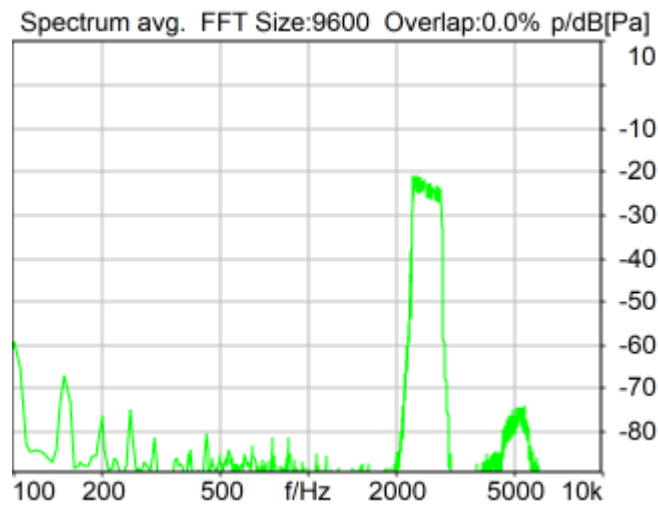
Distortion (Noise) RCV (packed): 38.19 dB (1.23%) Ok

Ok

2/5/2024 4:14 PM 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



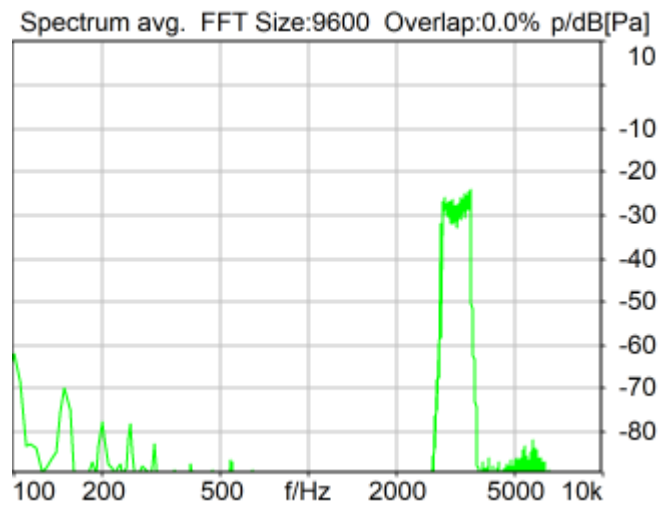
Distortion (Noise) RCV (packed): 41.31 dB (0.86%) Ok

Ok

2/5/2024 4:14 PM 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



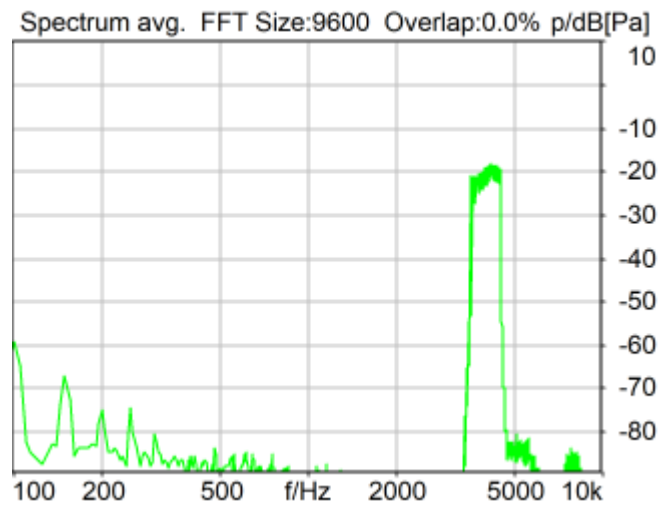
Distortion (Noise) RCV (packed): 40.32 dB (0.96%) Ok

Ok

2/5/2024 4:15 PM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 4000 Hz WB

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



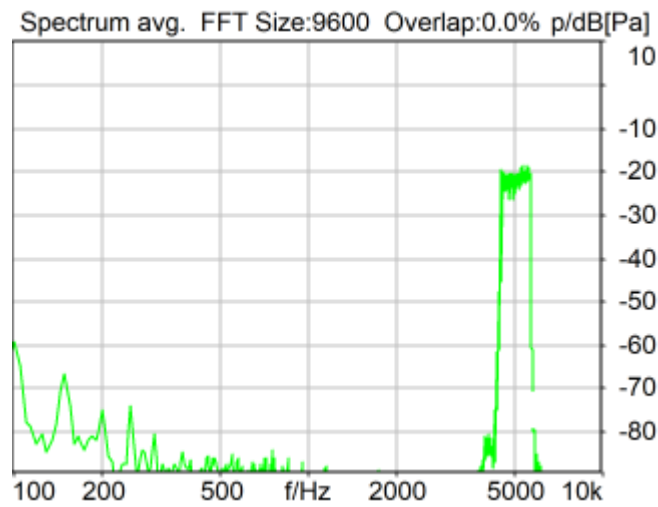
Distortion (Noise) RCV (packed): 45.57 dB (0.53%) Ok

Ok

2/5/2024 4:15 PM 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): 44.54 dB (0.59%) Ok

Ok

2/5/2024 4:16 PM 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	34.62 dB
2	315Hz	33.18 dB
3	400Hz	39.64 dB
4	500Hz	42.13 dB
5	630Hz	43.87 dB
6	800Hz	38.40 dB
7	1250Hz	30.11 dB
8	1600Hz	40.08 dB
9	2000Hz	38.19 dB
10	2500Hz	41.31 dB
11	3150Hz	40.32 dB
12	4000Hz	45.57 dB
13	5000Hz	44.54 dB
14	1000Hz	37.82 dB

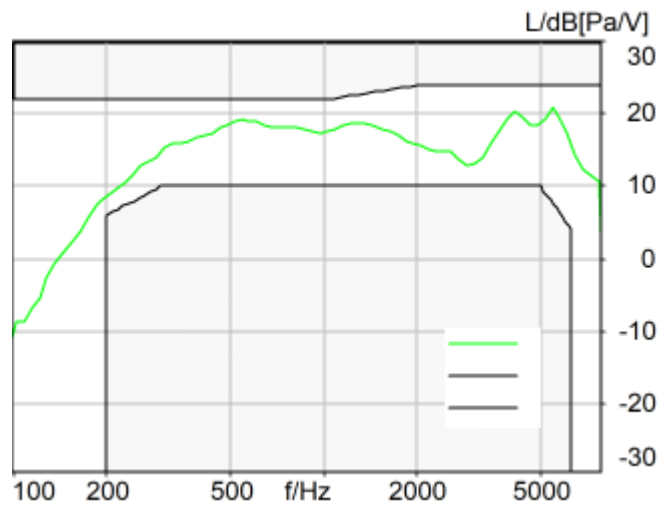
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 30.11dB at 1250Hz.

2/5/2024 4:18 PM ACQUA

5.3 Frequency Response 2N FF

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



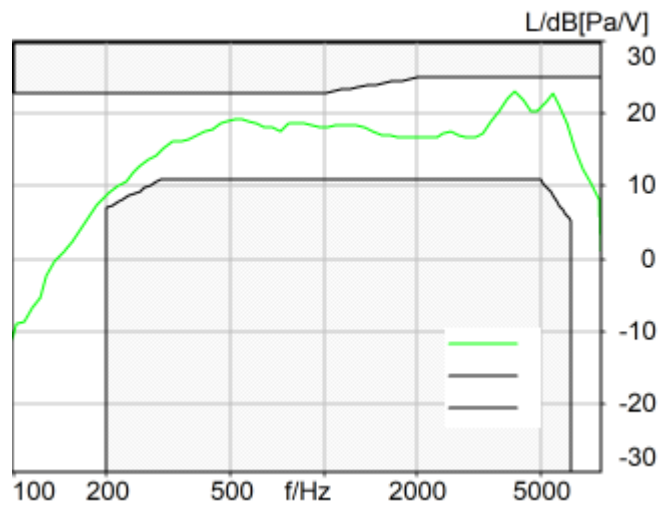
Absolute minimal distance
2.85 dB at 205.7 Hz Ok

Ok

2/5/2024 4:16 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
1.89 dB at 4119.5 Hz Ok

Ok

2/5/2024 4:16 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n25_40M_QPSK_1RB_1Offset_EVS NB 24.4kbps_Ch376500_8N
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Project	411619
Report Generation Date	2/20/2024 11:43 AM
Responsible Person	AC01-KS

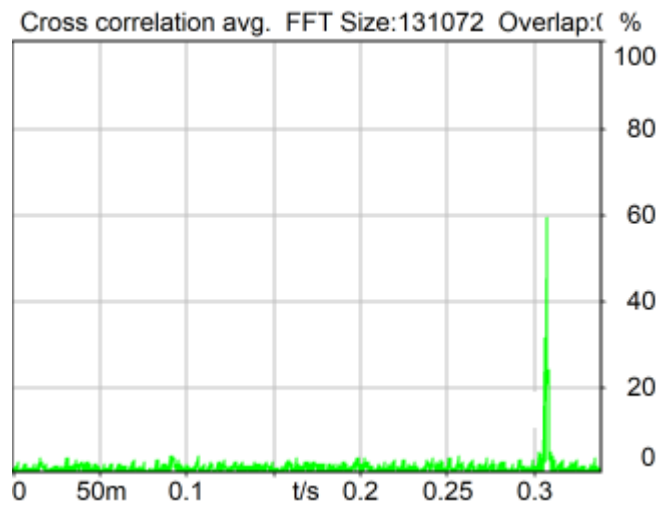
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	307.8	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	88.56	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.50	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.61	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.14	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.22	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.80	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.97	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.61	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	43.48	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.24	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	39.54	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	29.97	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 649.1 Hz	1.11	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	2.18	FR1 n25_40M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch376500_8N

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

Overall Receive Delay NB

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

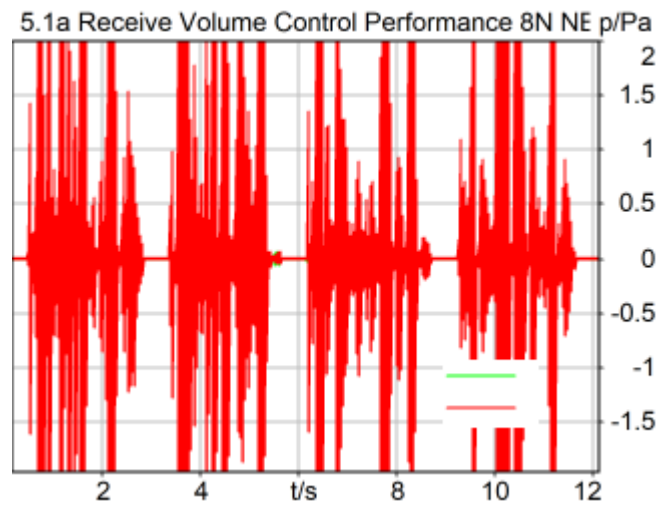


Delay (Cross): 307.8 ms

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5.1a Receive Volume Control Performance 8N NB

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



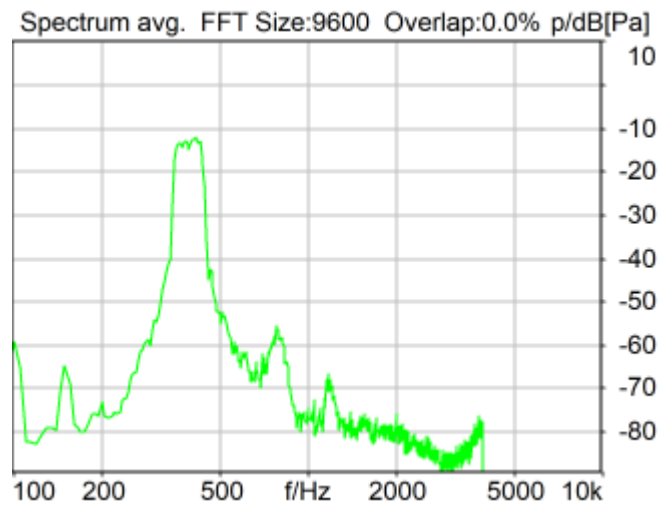
Speech Level RCV: 88.56 dB[SPL], Act.: 80.00% Ok

Ok

2/20/2024 11:37 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 400 Hz NB

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



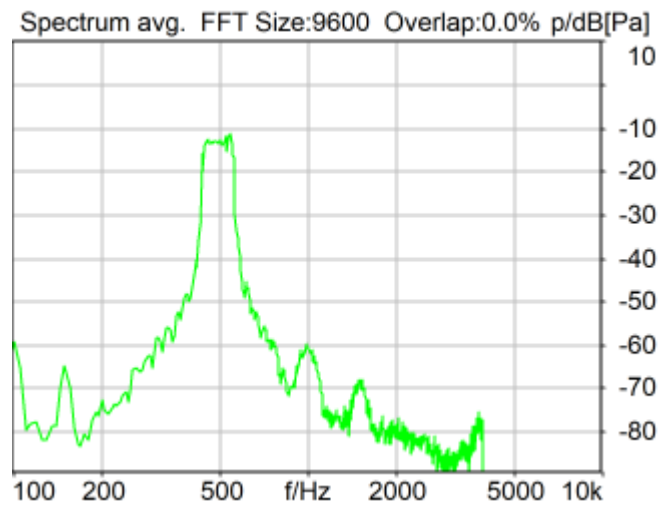
Distortion (Noise) RCV (packed): 40.50 dB (0.94%) Ok

Ok

2/20/2024 11:37 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 500 Hz NB

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



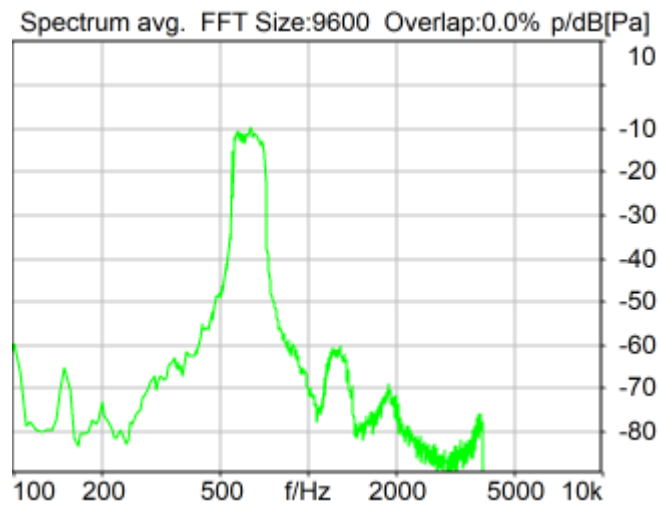
Distortion (Noise) RCV (packed): 37.61 dB (1.32%) Ok

Ok

2/20/2024 11:38 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 630 Hz NB

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



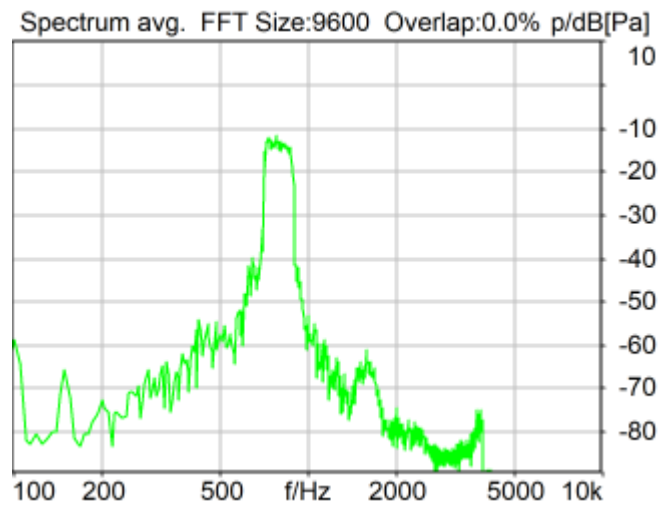
Distortion (Noise) RCV (packed): 40.14 dB (0.98%) Ok

Ok

2/20/2024 11:38 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 800 Hz NB

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



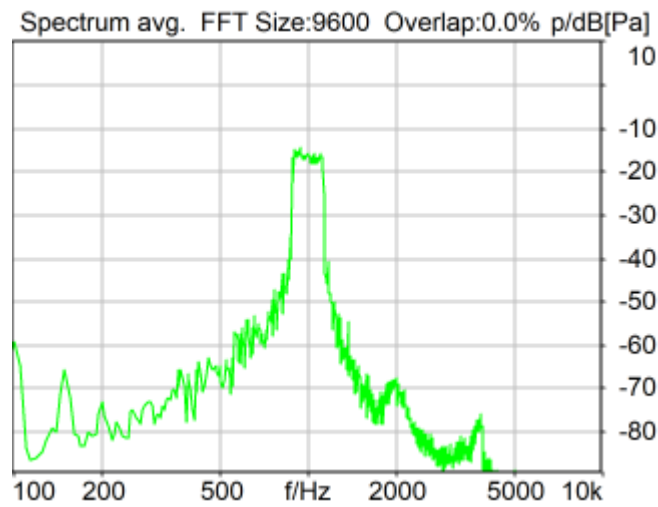
Distortion (Noise) RCV (packed): 34.22 dB (1.95%) Ok

Ok

2/20/2024 11:39 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1000 Hz NB

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



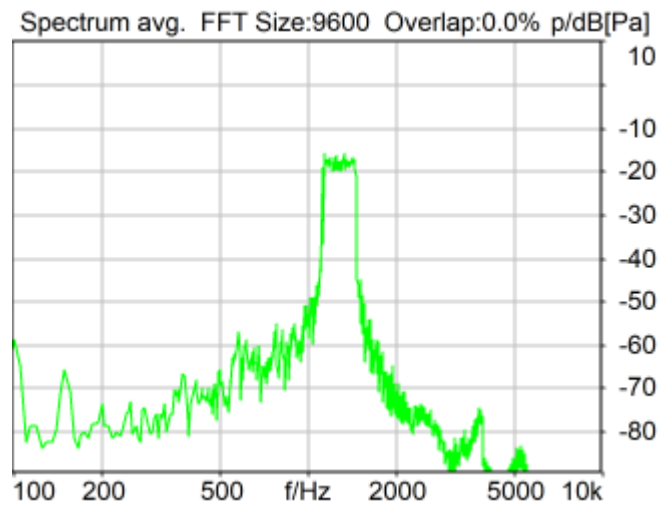
Distortion (Noise) RCV (packed): 31.80 dB (2.57%) Ok

Ok

2/20/2024 11:39 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1250 Hz NB

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



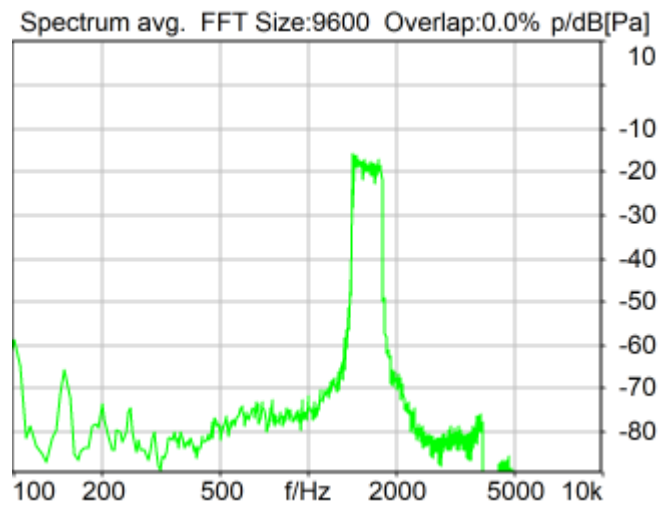
Distortion (Noise) RCV (packed): 29.97 dB (3.17%) Ok

Ok

2/20/2024 11:39 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 1600 Hz NB

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



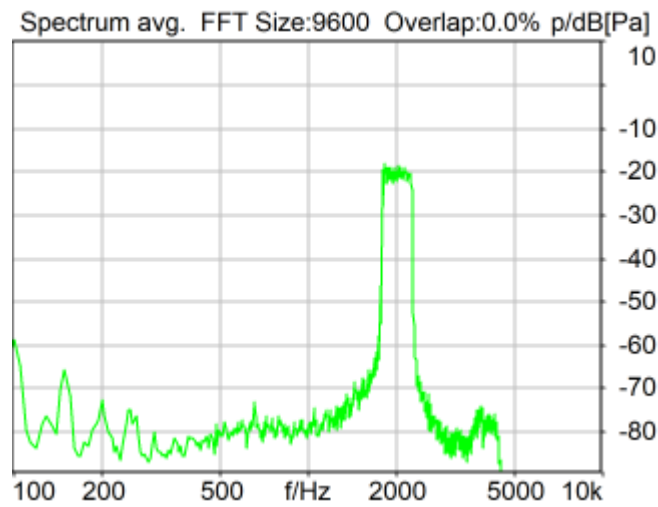
Distortion (Noise) RCV (packed): 42.61 dB (0.74%) Ok

Ok

2/20/2024 11:40 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2000 Hz NB

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



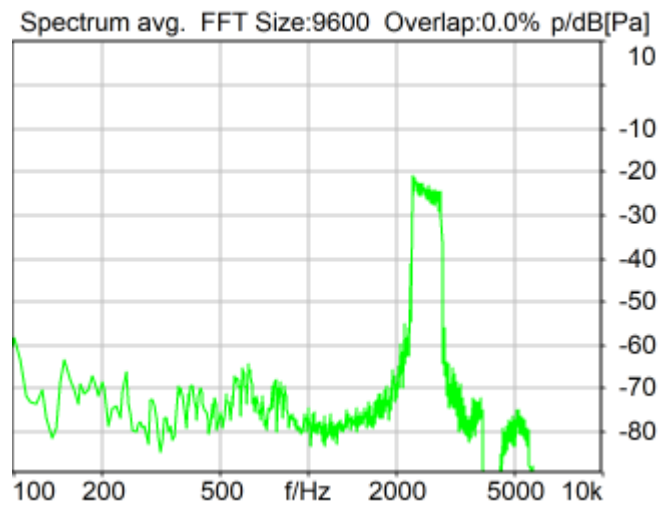
Distortion (Noise) RCV (packed): 43.48 dB (0.67%) Ok

Ok

2/20/2024 11:40 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 2500 Hz NB

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



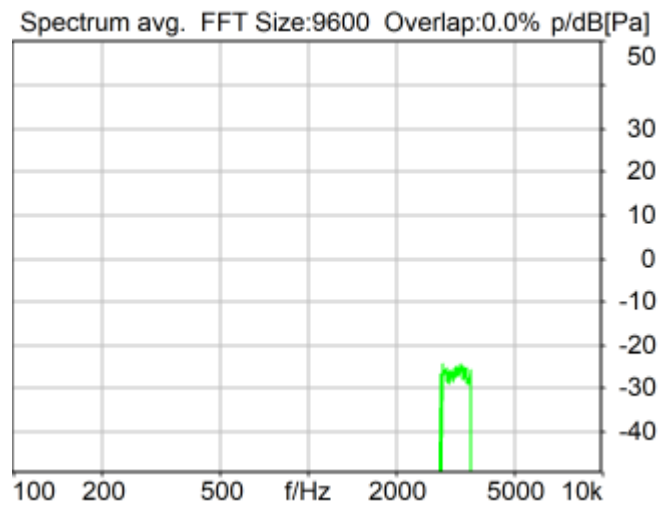
Distortion (Noise) RCV (packed): 37.24 dB (1.37%) Ok

Ok

2/20/2024 11:41 AM ACQUA 5.1.200

5.2 RCV Distortion and Noise - 3150 Hz NB

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



Distortion (Noise) RCV (packed): 39.54 dB (1.05%) Ok

Ok

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Report - Receive Distortion and Noise (Conversational Gain)

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

Region	Frequency	SDNR
1	400Hz	40.50 dB
2	500Hz	37.61 dB
3	630Hz	40.14 dB
4	800Hz	34.22 dB
5	1000Hz	31.80 dB
6	1250Hz	29.97 dB
7	1600Hz	42.61 dB
8	2000Hz	43.48 dB
9	2500Hz	37.24 dB
10	3150Hz	39.54 dB

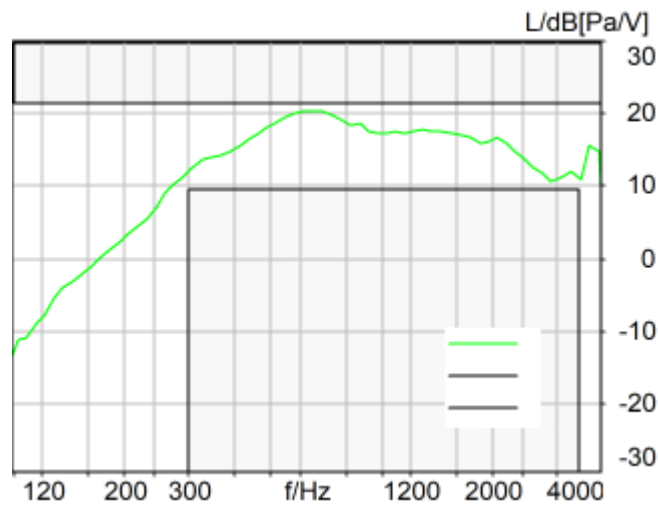
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 29.97dB at 1250Hz.

2/20/2024 11:41 AM ACQUA

5.3 Frequency Response 8N FF HANB

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



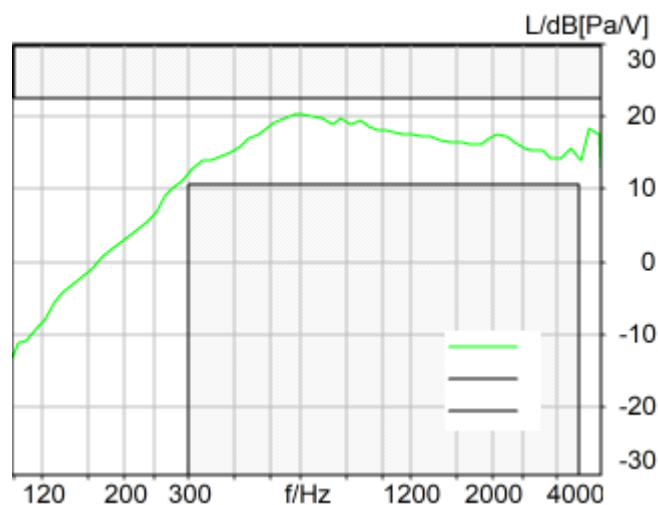
Absolute minimal distance
1.11 dB at 649.1 Hz Ok

Ok

2/20/2024 11:42 AM ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
2.18 dB at 611.7 Hz Ok

Ok

2/20/2024 11:42 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n41_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps_Ch518598_2N
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Project	411619
Report Generation Date	2/21/2024 2:45 PM
Responsible Person	AC01-KS

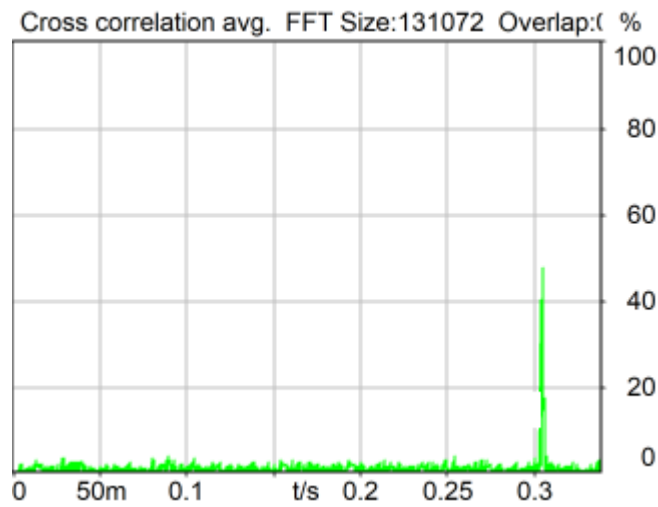
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	305.3	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	77.56	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	37.14	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	37.07	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	38.55	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	38.77	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	38.15	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	32.31	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	41.49	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	43.08	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	40.90	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB] , 0.0 dB	34.35	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.88	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 611.7 Hz	1.93	FR1 n41_100M_QPSK_1RB_1Offset_E VS NB 24.4kbps_Ch518598_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
5.3 Frequency Response 2N FF HANB	17
5.3 Frequency Response 2N DF HANB	18

Overall Receive Delay NB

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

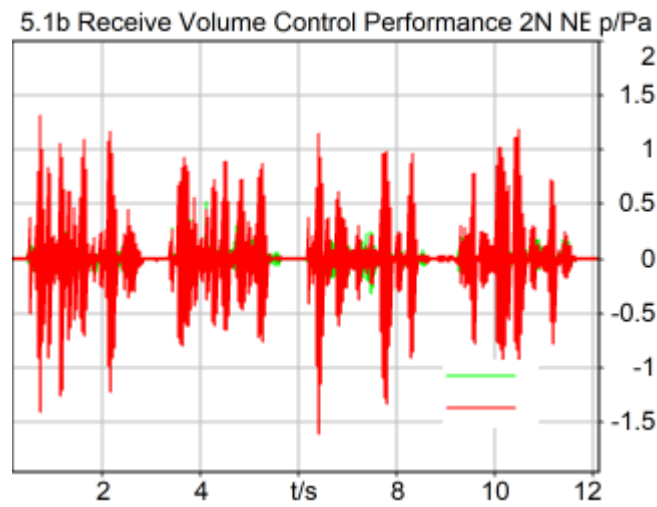


Delay (Cross): 305.3 ms

2/21/2024 2:35 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



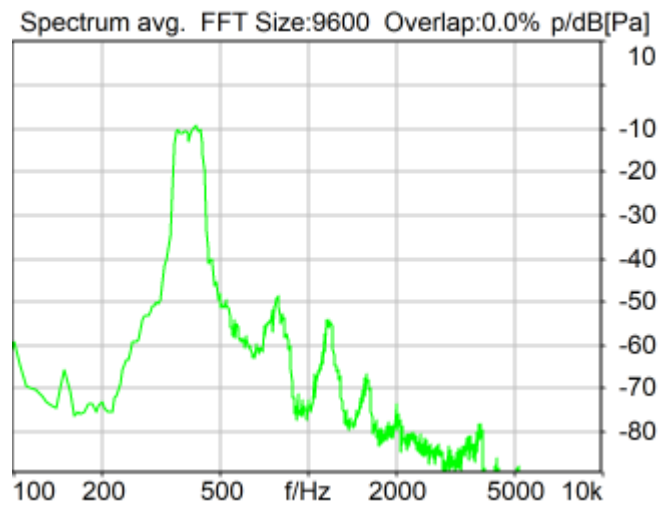
Speech Level RCV: 77.56 dB[SPL], Act.: 78.43% Ok

Ok

2/21/2024 2:35 PM 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



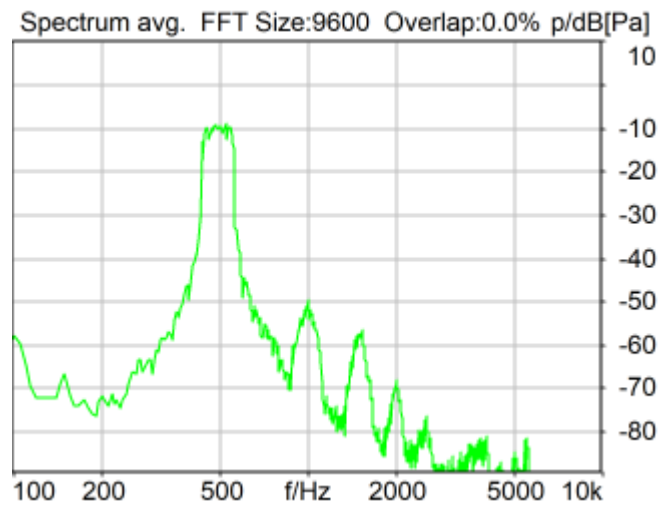
Distortion (Noise) RCV (packed): 37.14 dB (1.39%) Ok

Ok

2/21/2024 2:36 PM 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



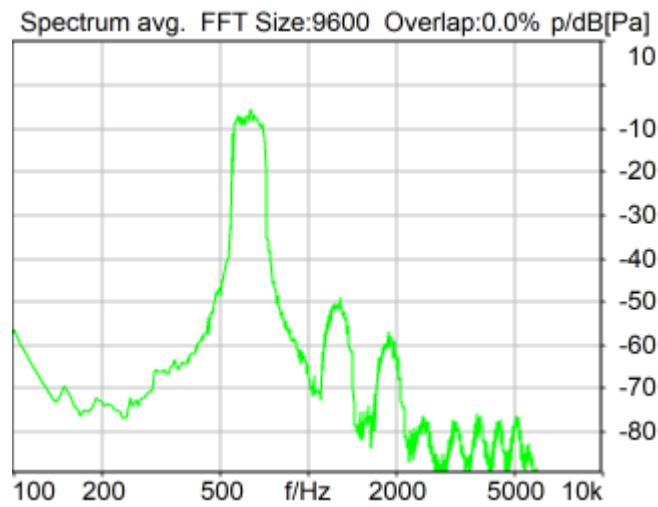
Distortion (Noise) RCV (packed): 37.07 dB (1.40%) Ok

Ok

2/21/2024 2:41 PM 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



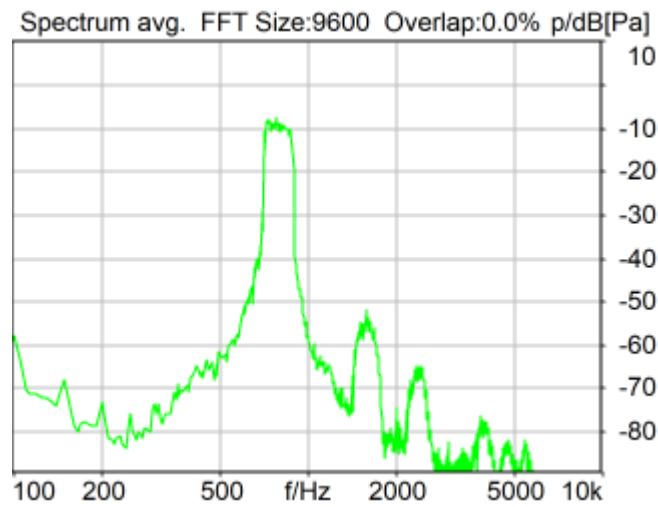
Distortion (Noise) RCV (packed): 38.55 dB (1.18%) Ok

Ok

2/21/2024 2:37 PM 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



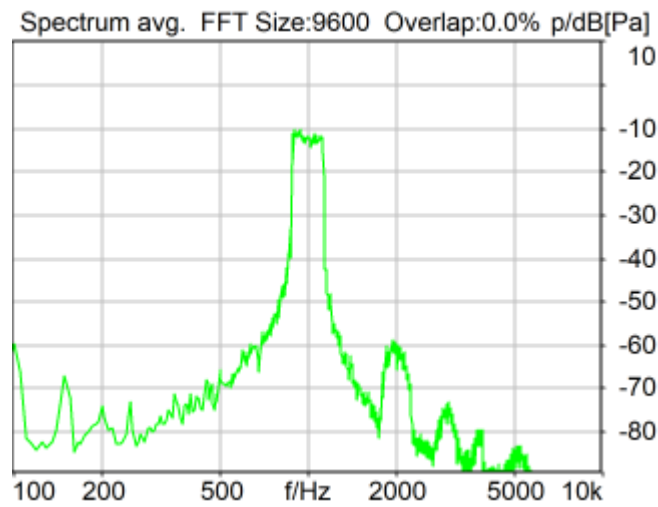
Distortion (Noise) RCV (packed): 38.77 dB (1.15%) Ok

Ok

2/21/2024 2:37 PM 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



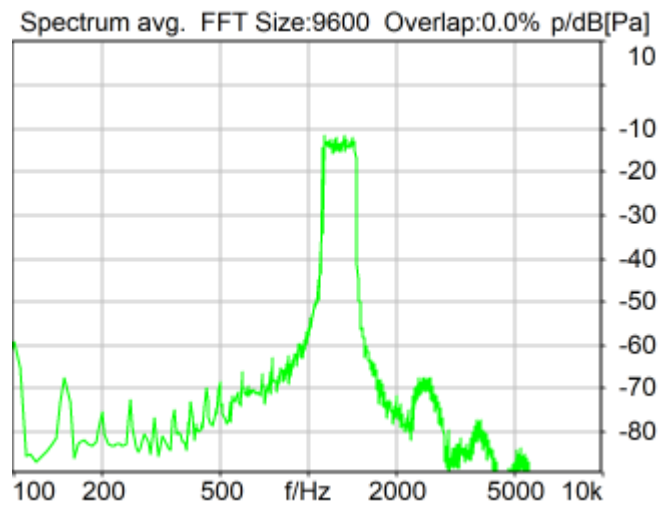
Distortion (Noise) RCV (packed): 38.15 dB (1.24%) Ok

Ok

2/21/2024 2:38 PM 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



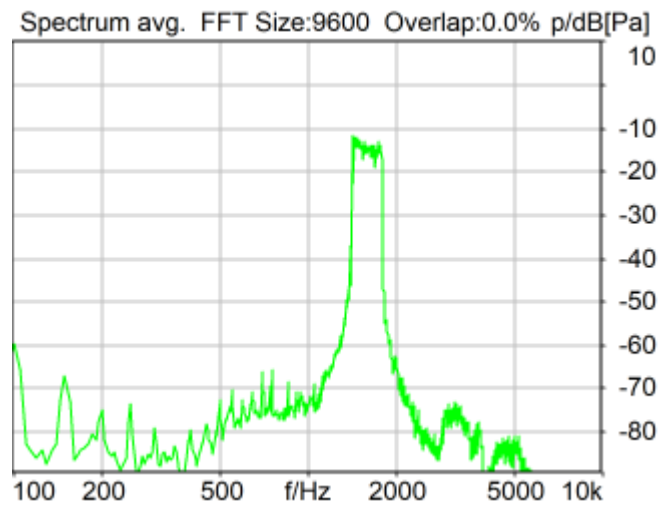
Distortion (Noise) RCV (packed): 32.31 dB (2.42%) Ok

Ok

2/21/2024 2:38 PM 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



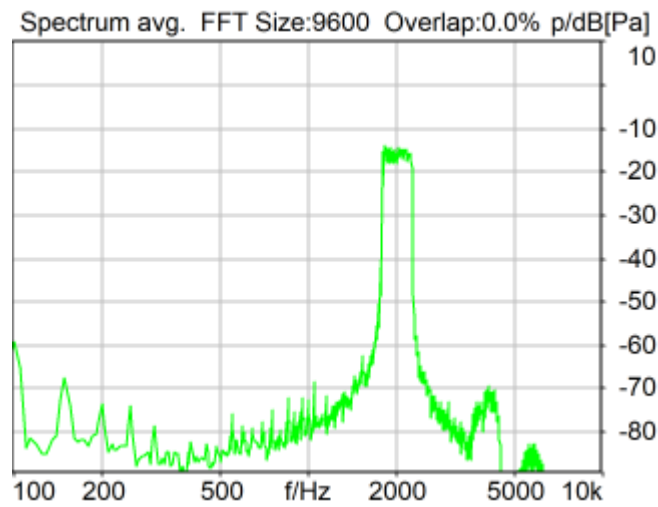
Distortion (Noise) RCV (packed): 41.49 dB (0.84%) Ok

Ok

2/21/2024 2:39 PM 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



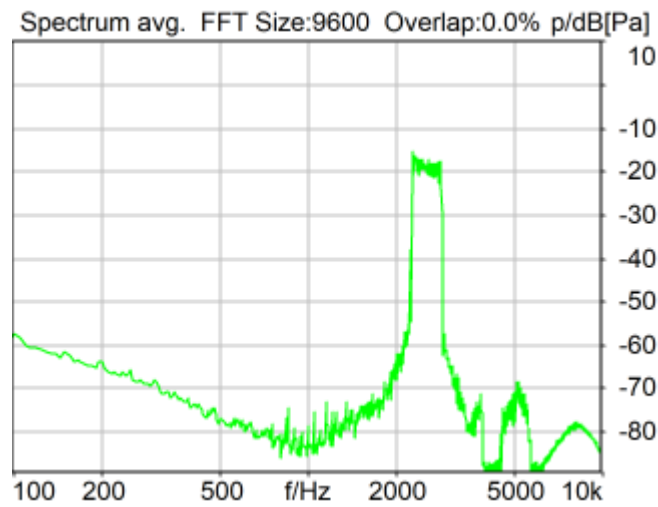
Distortion (Noise) RCV (packed): 43.08 dB (0.70%) Ok

Ok

2/21/2024 2:39 PM 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



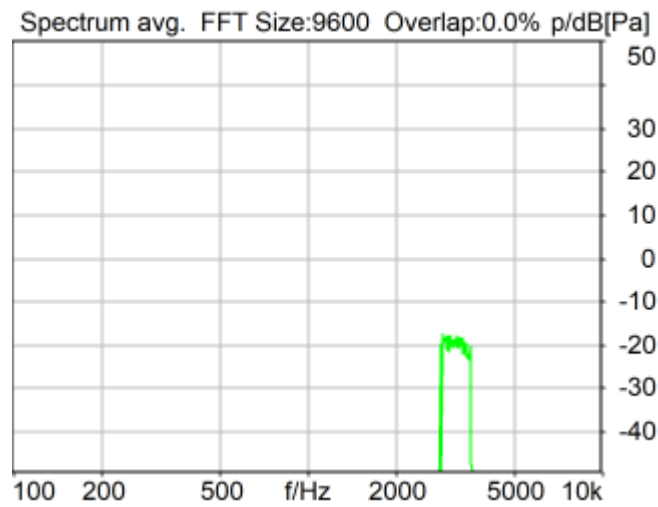
Distortion (Noise) RCV (packed): 40.90 dB (0.90%) Ok

Ok

2/21/2024 2:40 PM 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



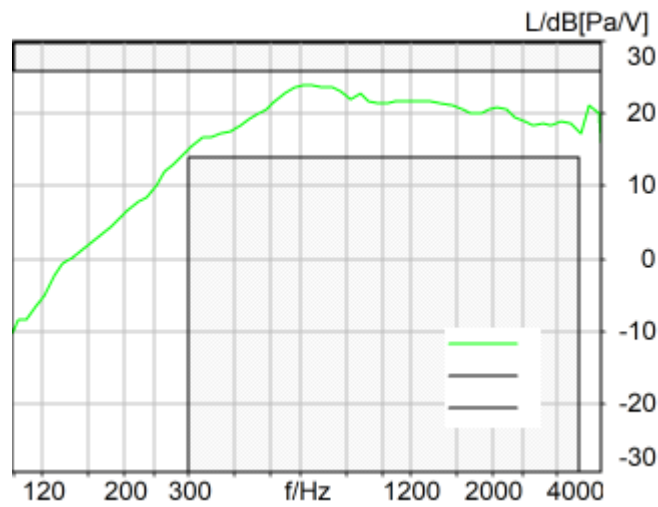
Distortion (Noise) RCV (packed): 34.35 dB (1.92%) Ok

Ok

2/21/2024 2:40 PM ACQUA 5.1.200

5.3 Frequency Response 2N FF HANB

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



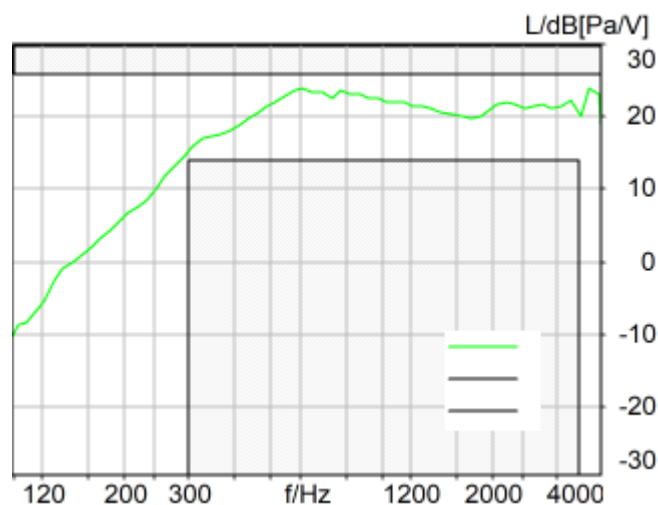
Absolute minimal distance
1.88 dB at 611.7 Hz Ok

Ok

2/21/2024 2:41 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.93 dB at 611.7 Hz Ok

Ok

2/21/2024 2:41 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS WB 5.9kbps_Ch116_2N
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Project	411619
Report Generation Date	2/23/2024 1:14 PM
Responsible Person	AC01-KS

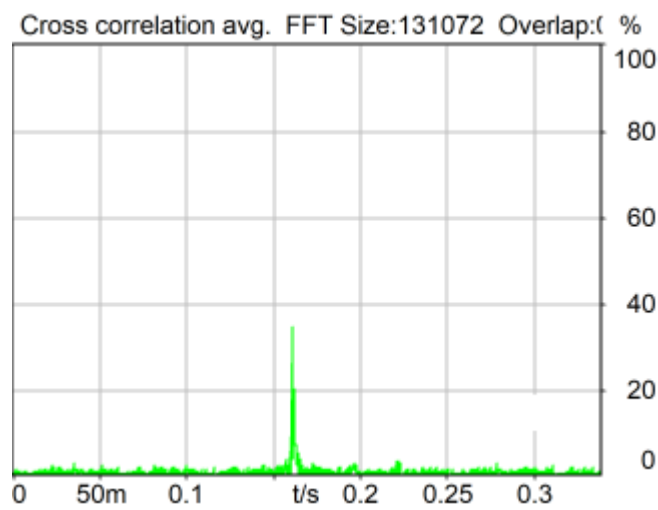
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	160.9	WLAN5GHz_802.11a 6Mbps_EVS WB 5.9kbps_Ch116_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	89.32	WLAN5GHz_802.11a 6Mbps_EVS WB 5.9kbps_Ch116_2N

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

Overall Receive Delay WB

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

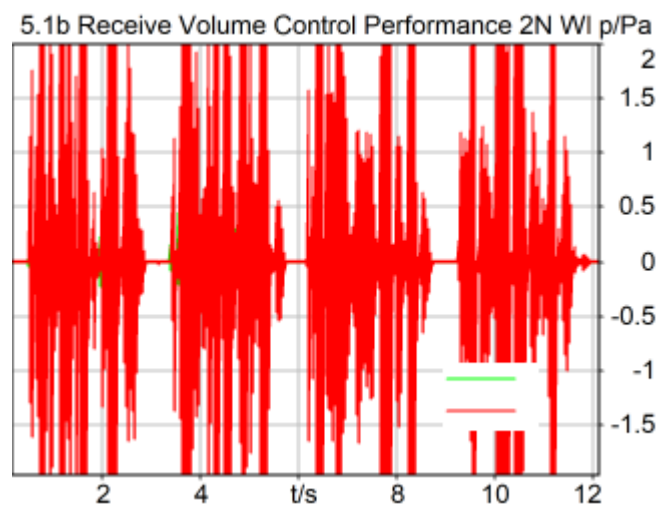


Delay (Cross): 160.9 ms

2/23/2024 1:14 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 89.32 dB[SPL], Act.: 82.74% Ok

Ok

2/23/2024 1:14 PM ACQUA 5.1.200