
Measurement Protocol

Measurement Object	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
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Project	422203
Report Generation Date	3/11/2024 3:50 PM
Responsible Person	AC01-KS

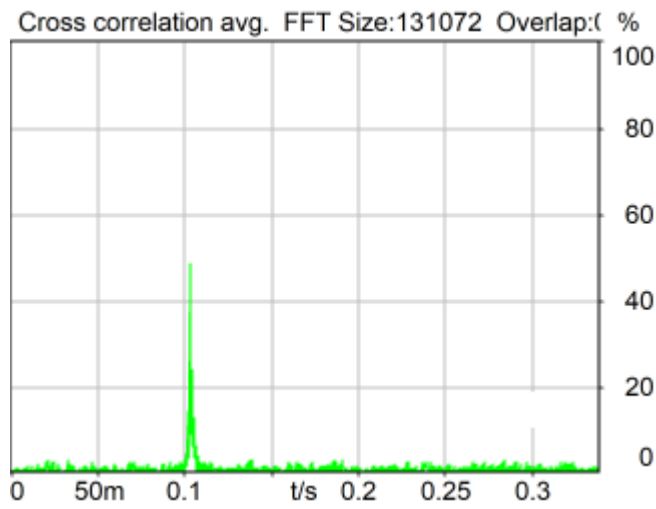
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	103.7	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.41	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	33.37	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.73	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.17	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.33	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.37	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.38	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.60	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.79	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	40.44	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.93	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	21.79	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	3.27	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	2.16	LTE Band 13_10M_QPSK_1RB_0Offset_EVS NB 24.4kbps_Ch23230_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

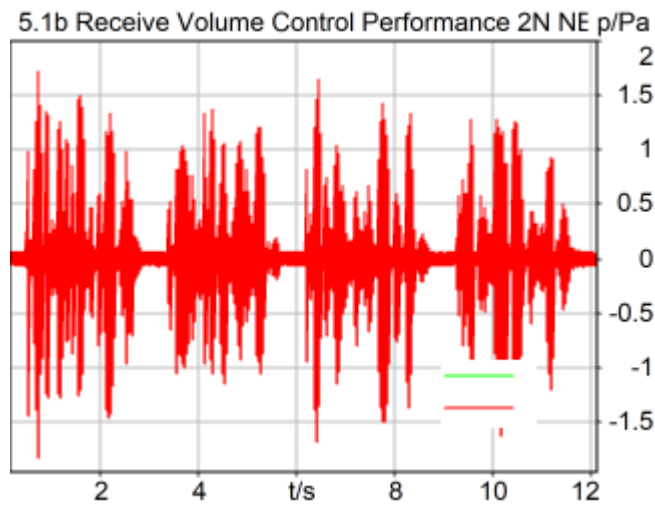


Delay (Cross): 103.7 ms

3/11/2024 3:37 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



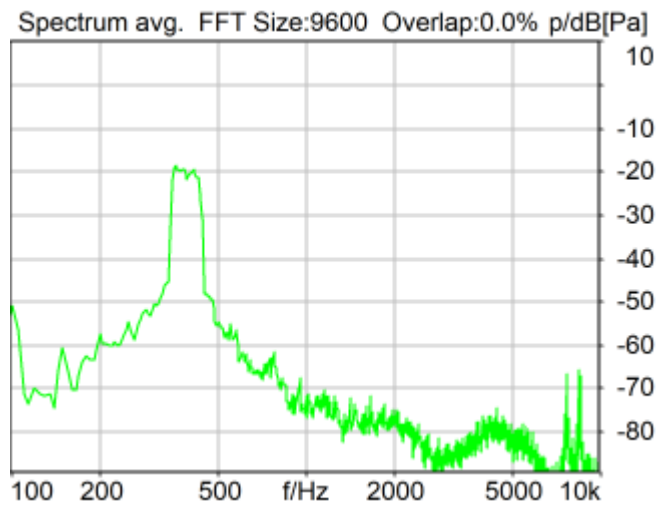
Speech Level RCV: 80.41 dB[SPL], Act.: 80.47% Ok

Ok

3/11/2024 3:38 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



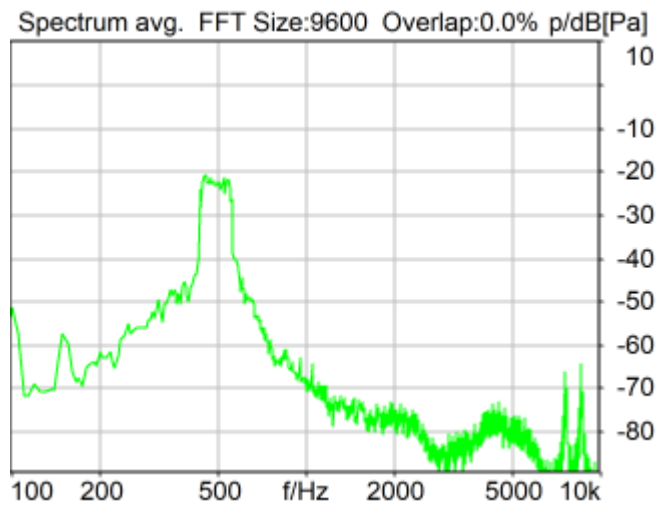
Distortion (Noise) RCV (packed): 33.37 dB (2.14%) Ok

Ok

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5.2 RCV Distortion and Noise - 500 Hz NB

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



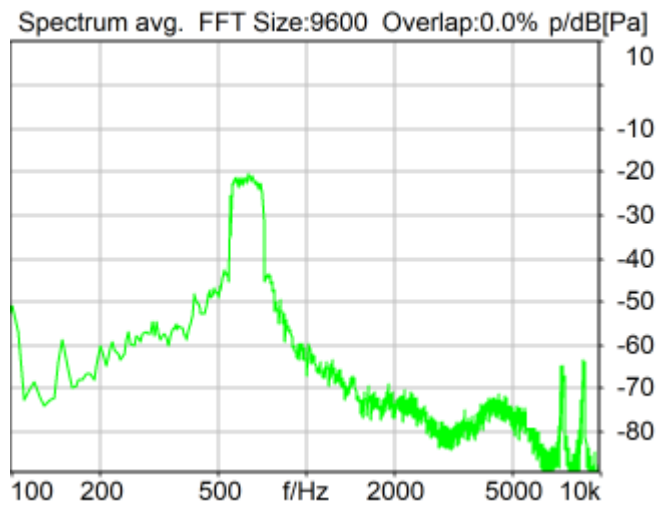
Distortion (Noise) RCV (packed): 26.73 dB (4.61%) Ok

Ok

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5.2 RCV Distortion and Noise - 630 Hz NB

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



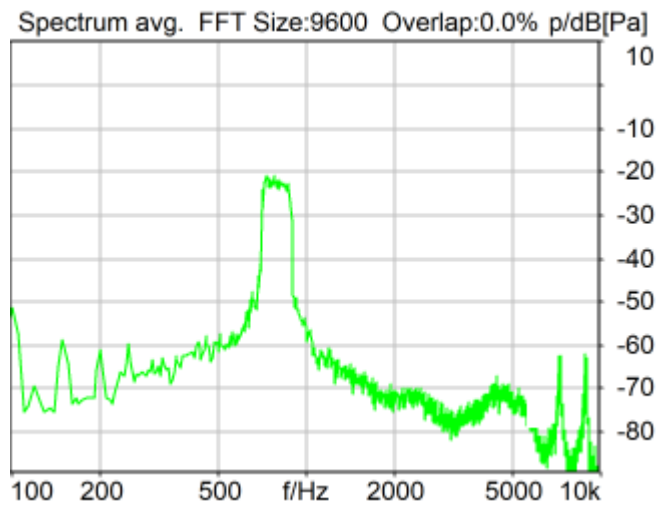
Distortion (Noise) RCV (packed): 26.17 dB (4.91%) Ok

Ok

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5.2 RCV Distortion and Noise - 800 Hz NB

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



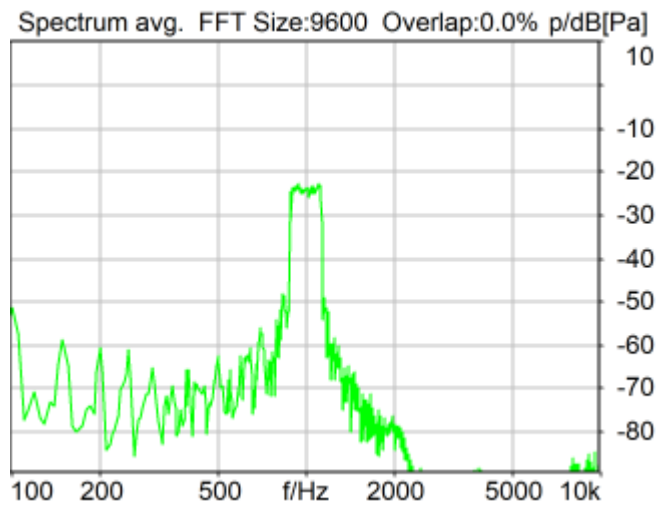
Distortion (Noise) RCV (packed): 28.33 dB (3.83%) Ok

Ok

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5.2 RCV Distortion and Noise - 1000 Hz NB

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



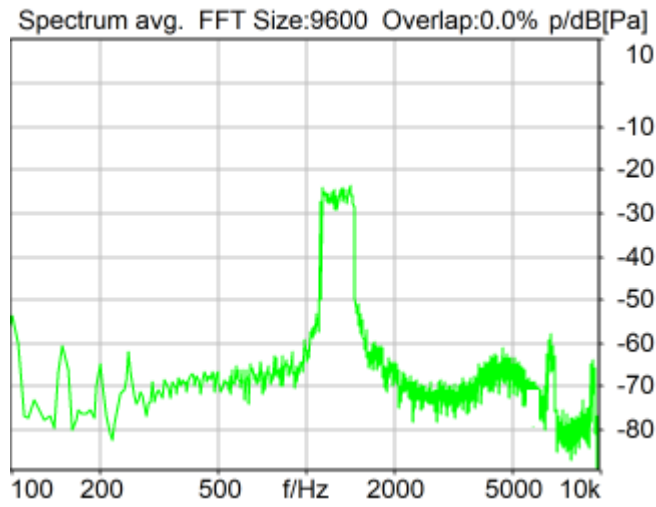
Distortion (Noise) RCV (packed): 31.37 dB (2.70%) Ok

Ok

3/11/2024 3:46 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



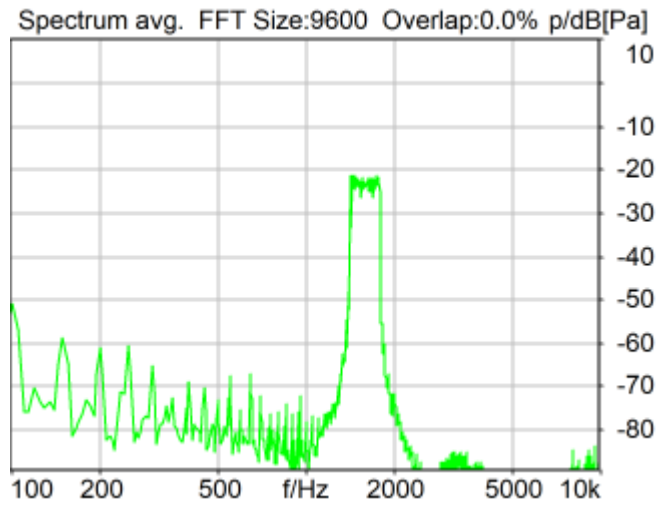
Distortion (Noise) RCV (packed): 25.38 dB (5.38%) Ok

Ok

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5.2 RCV Distortion and Noise - 1600 Hz NB

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



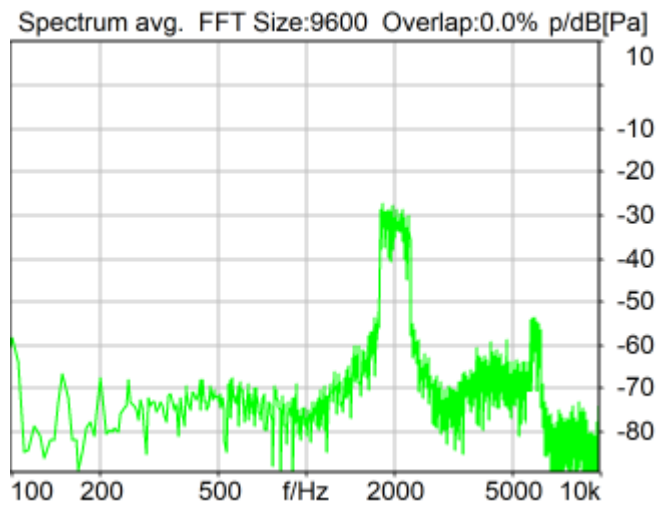
Distortion (Noise) RCV (packed): 41.60 dB (0.83%) Ok

Ok

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5.2 RCV Distortion and Noise - 2000 Hz NB

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



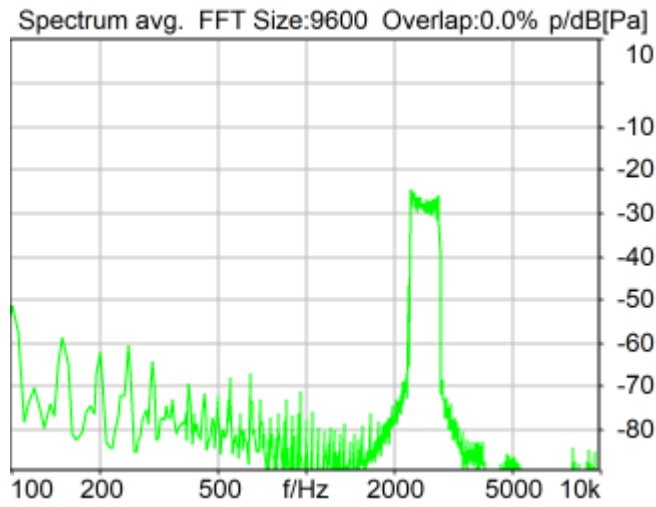
Distortion (Noise) RCV (packed): 21.79 dB (8.13%) Ok

Ok

3/11/2024 3:41 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



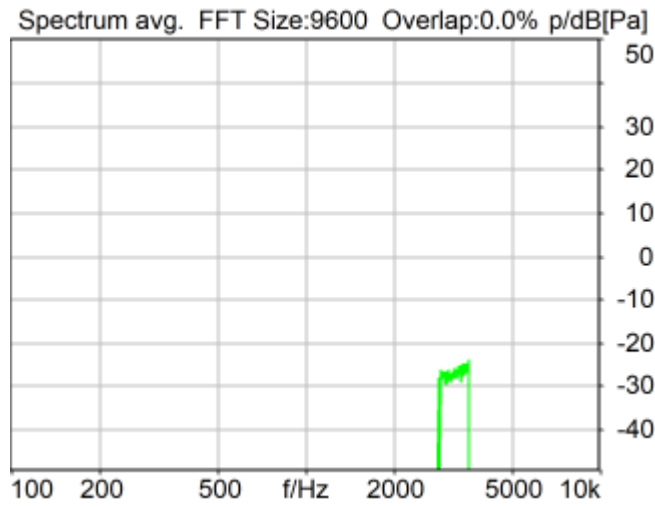
Distortion (Noise) RCV (packed): 40.44 dB (0.95%) Ok

Ok

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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): 41.93 dB (0.80%) 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 2N

Region	Frequency	SDNR
1	400Hz	33.37 dB
2	500Hz	26.73 dB
3	630Hz	26.17 dB
4	800Hz	28.33 dB
5	1250Hz	25.38 dB
6	2000Hz	21.79 dB
7	1000Hz	31.37 dB
8	1600Hz	41.60 dB
9	2500Hz	40.44 dB
10	3150Hz	41.93 dB

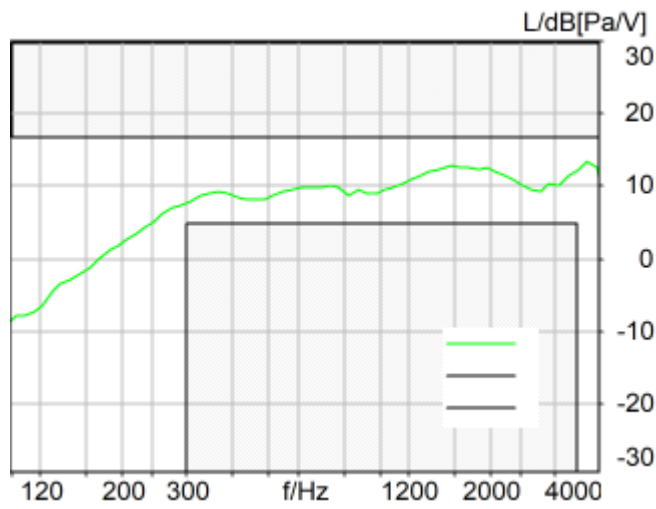
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.79dB at 2000Hz.

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5.3 Frequency Response 2N FF HANB

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



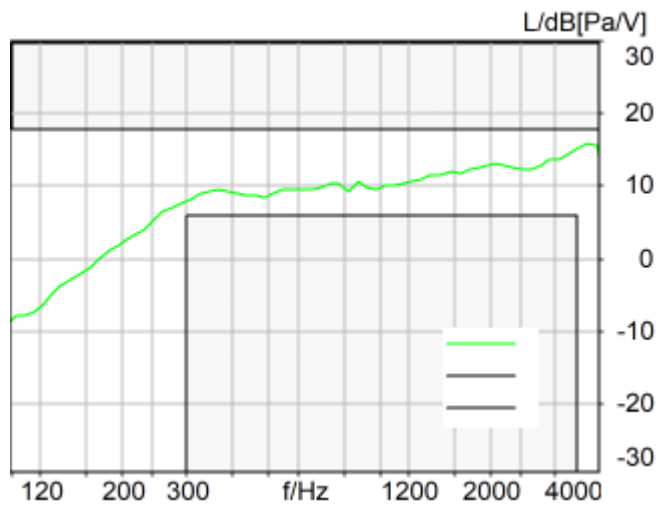
Absolute minimal distance
3.27 dB at 3657.5 Hz Ok

Ok

3/11/2024 3:45 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
2.16 dB at 3657.5 Hz Ok

Ok

3/11/2024 3:46 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n26_20M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch166300_8N
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Project	422203
Report Generation Date	3/13/2024 5:50 AM
Responsible Person	AC01-KS

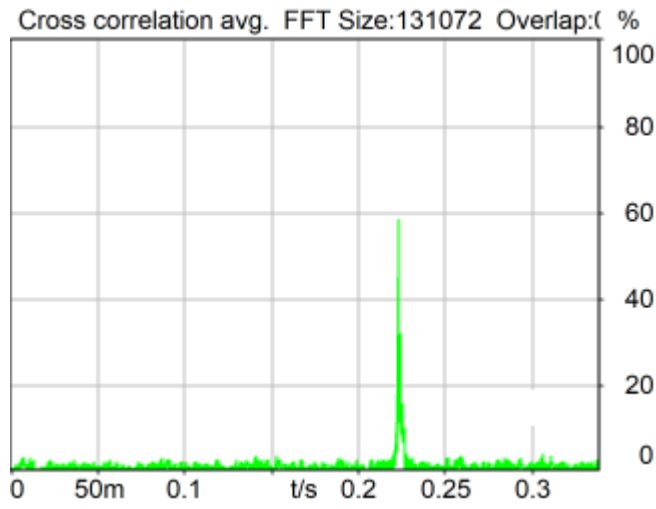
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	223.9	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	85.30	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.49	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.25	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.01	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.92	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.64	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.14	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	41.01	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	42.21	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.24	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	38.86	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 500Hz)	26.25	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	3.25	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_8N
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 305.9 Hz	3.33	FR1 n26_20M_QPSK_1RB_1Offset_E VS NB 24.4kbps _Ch166300_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

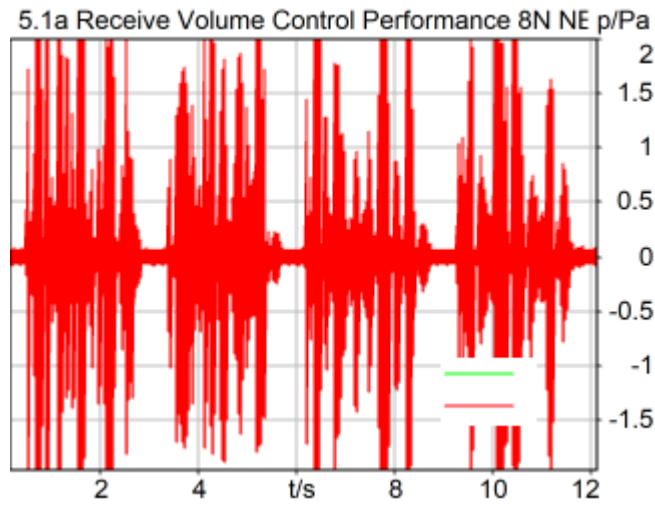


Delay (Cross): 223.9 ms

3/13/2024 5:44 AM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



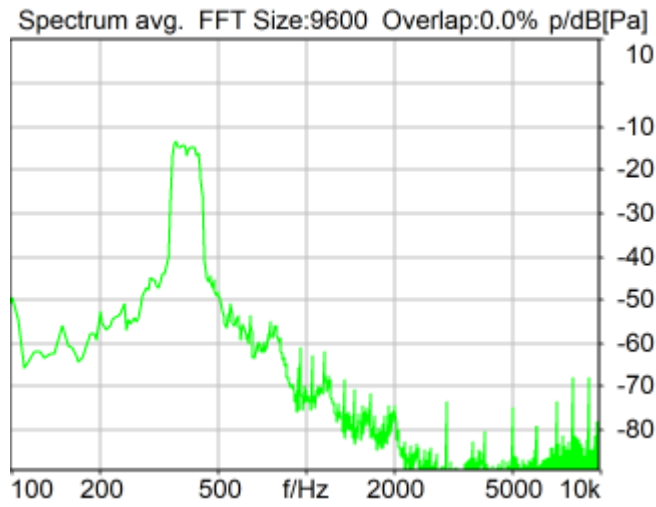
Speech Level RCV: 85.30 dB[SPL], Act.: 81.60% Ok

Ok

3/13/2024 5:44 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



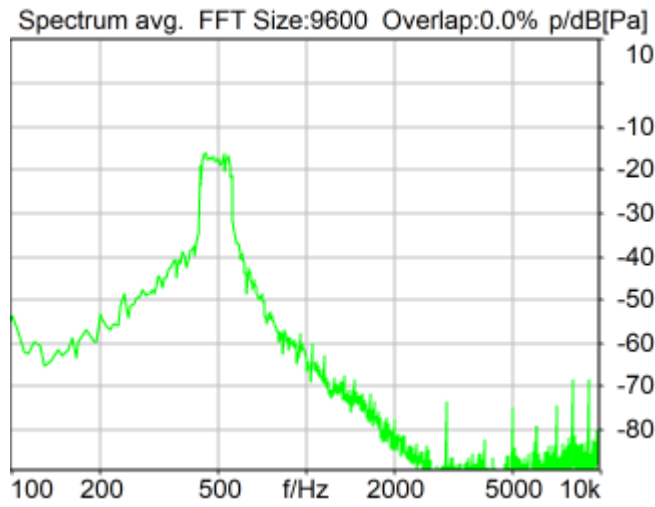
Distortion (Noise) RCV (packed): 34.49 dB (1.89%) Ok

Ok

3/13/2024 5:44 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



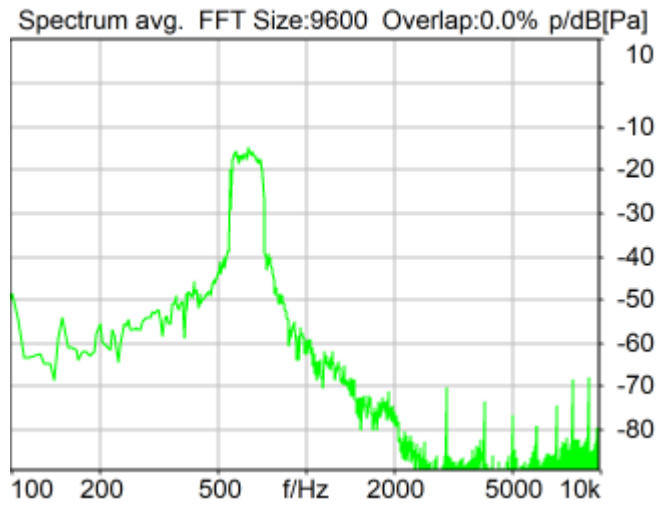
Distortion (Noise) RCV (packed): 26.25 dB (4.87%) Ok

Ok

3/13/2024 5:45 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



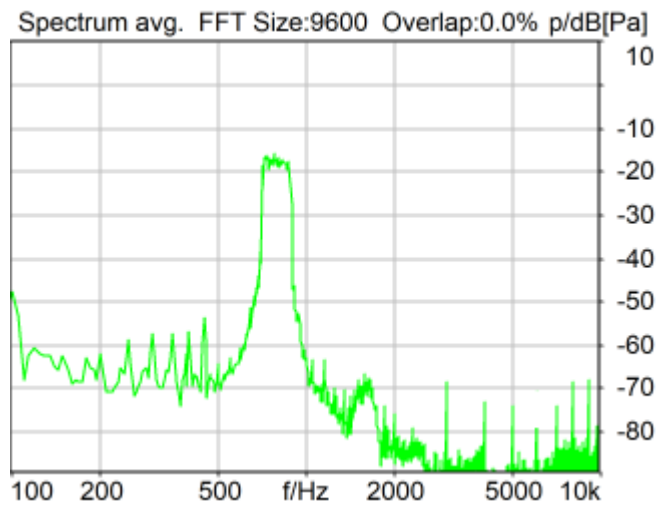
Distortion (Noise) RCV (packed): 29.01 dB (3.54%) Ok

Ok

3/13/2024 5:45 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



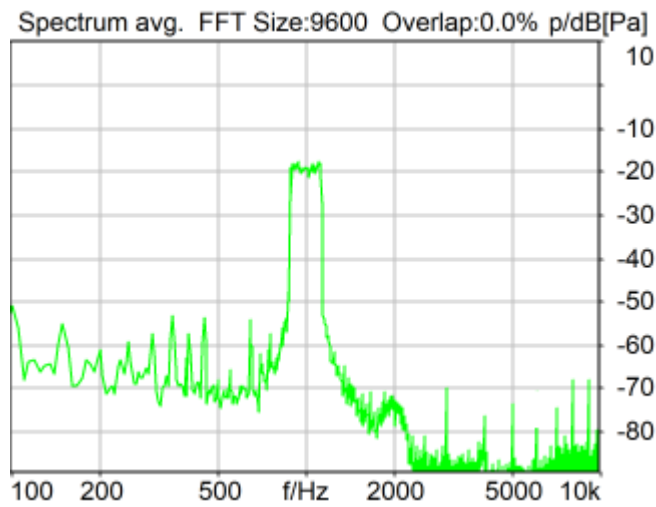
Distortion (Noise) RCV (packed): 37.92 dB (1.27%) Ok

Ok

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5.2 RCV Distortion and Noise - 1000 Hz NB

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



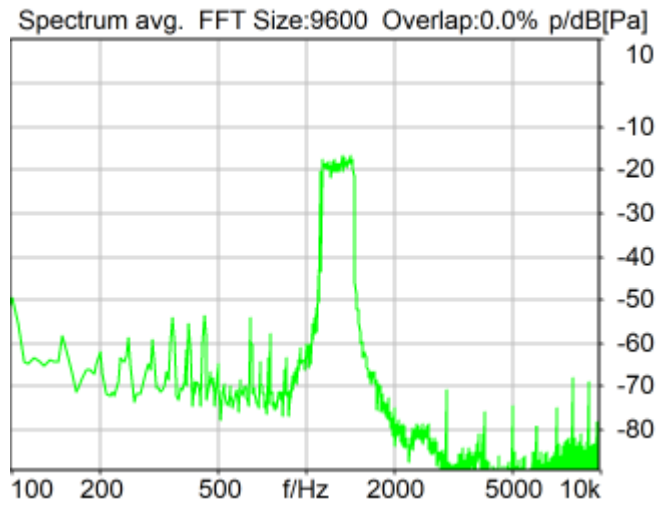
Distortion (Noise) RCV (packed): 38.64 dB (1.17%) Ok

Ok

3/13/2024 5:46 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



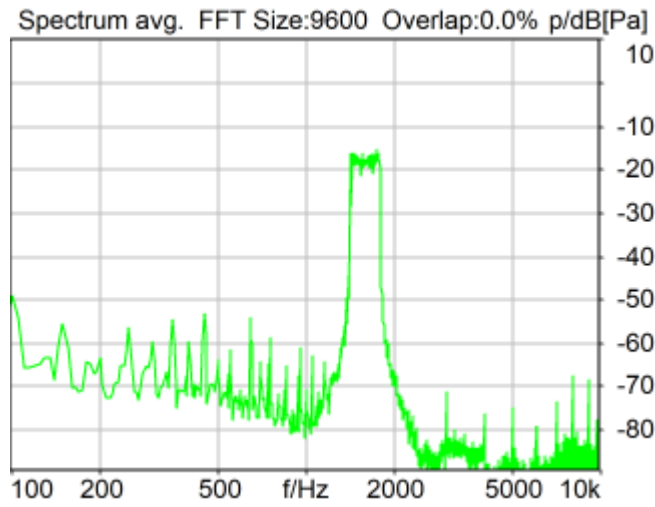
Distortion (Noise) RCV (packed): 32.14 dB (2.47%) Ok

Ok

3/13/2024 5:47 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



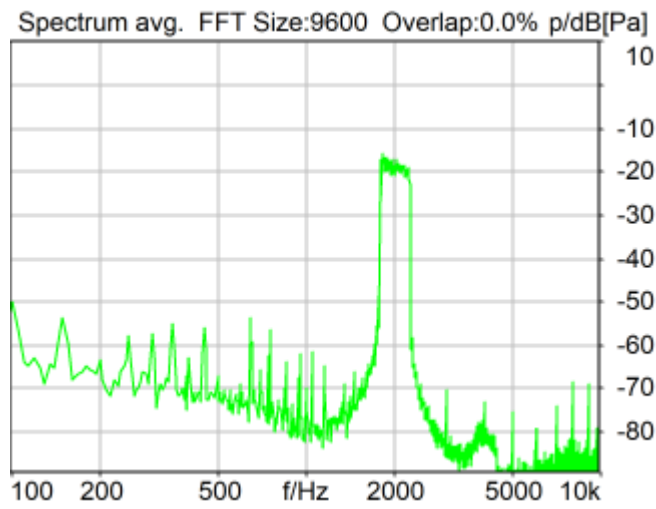
Distortion (Noise) RCV (packed): 41.01 dB (0.89%) Ok

Ok

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5.2 RCV Distortion and Noise - 2000 Hz NB

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



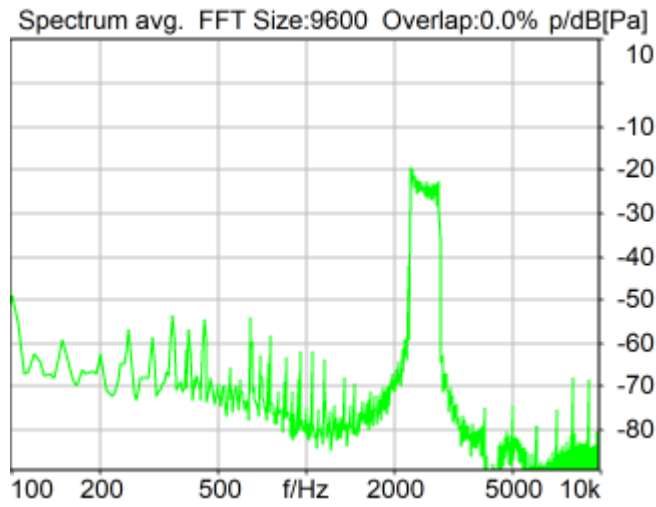
Distortion (Noise) RCV (packed): 42.21 dB (0.77%) Ok

Ok

3/13/2024 5:47 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



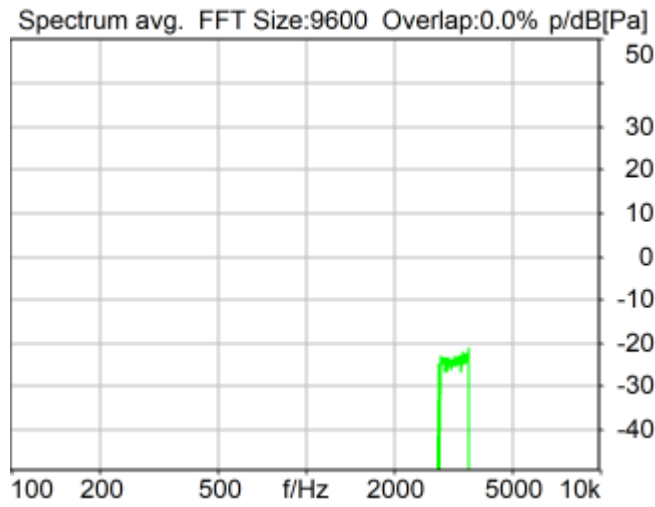
Distortion (Noise) RCV (packed): 38.24 dB (1.22%) Ok

Ok

3/13/2024 5:48 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): 38.86 dB (1.14%) Ok

Ok

3/13/2024 5:48 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

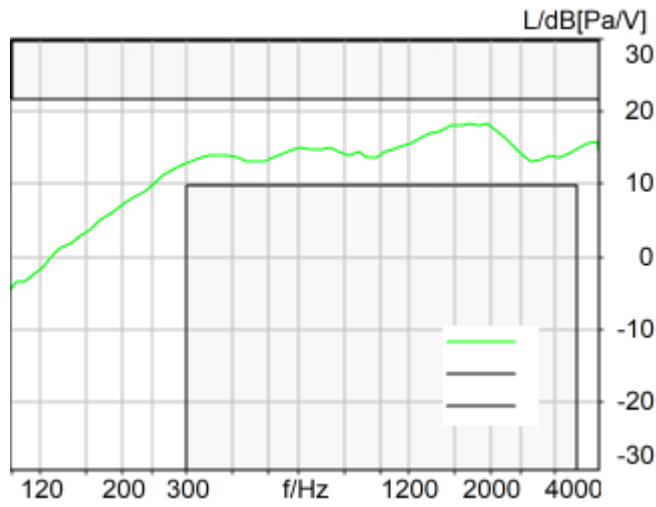
Region	Frequency	SDNR
1	400Hz	34.49 dB
2	500Hz	26.25 dB
3	630Hz	29.01 dB
4	800Hz	37.92 dB
5	1000Hz	38.64 dB
6	1250Hz	32.14 dB
7	1600Hz	41.01 dB
8	2000Hz	42.21 dB
9	2500Hz	38.24 dB
10	3150Hz	38.86 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 26.25dB at 500Hz.

3/13/2024 5:48 AM ACQUA

5.3 Frequency Response 8N FF HANB

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



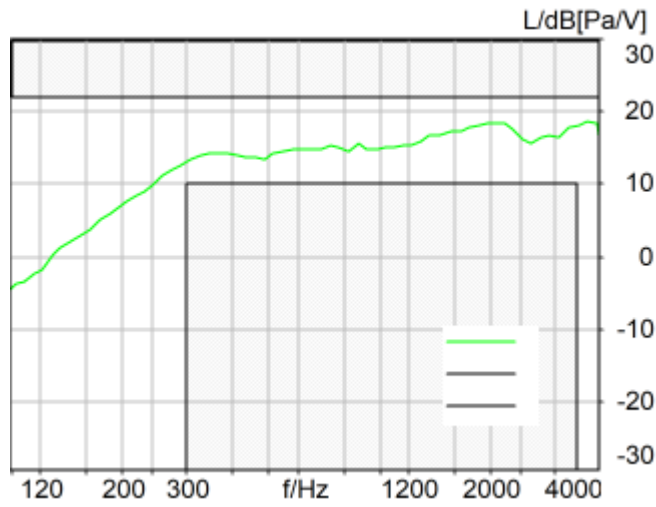
Absolute minimal distance
3.25 dB at 1747.8 Hz Ok

Ok

3/13/2024 5:49 AM ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
3.33 dB at 305.9 Hz Ok

Ok

3/13/2024 5:49 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24.4kbps_Ch6_8N
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Project	422203
Report Generation Date	3/12/2024 4:58 AM
Responsible Person	AC01-KS

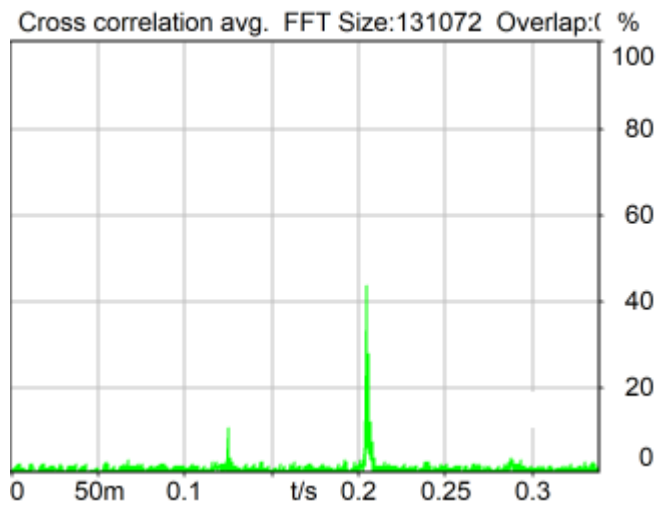
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	205.2	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	85.94	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.72	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.99	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.69	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.21	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.10	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	20.20	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.41	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.25	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.91	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.24	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1250Hz)	20.20	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.3 Frequency Response 8N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1647.8 Hz	2.50	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_8N
5.3 Frequency Response 8N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 2057.5 Hz	2.71	WLAN2.4GHz_802.11b 1Mbps_EVS NB 24. 4kbps_Ch6_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

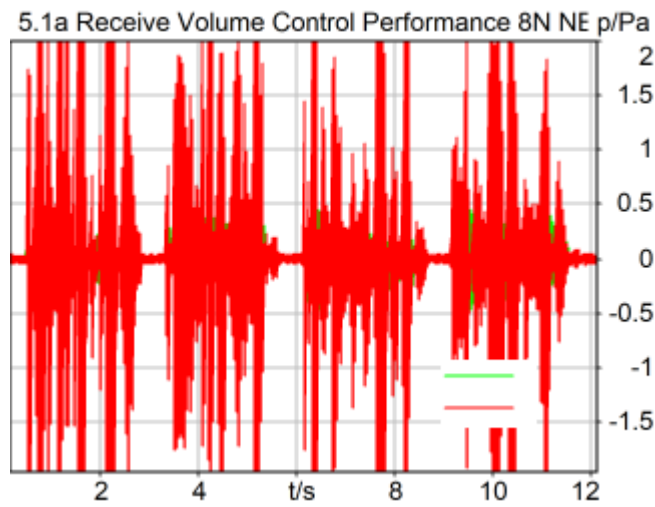


Delay (Cross): 205.2 ms

3/12/2024 4:46 AM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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



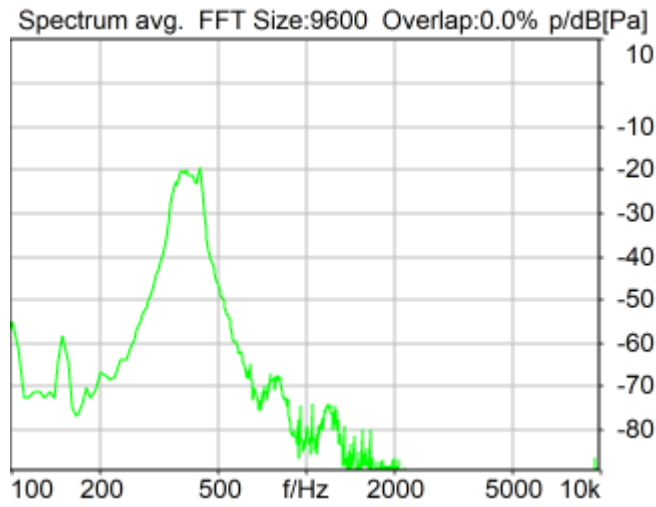
Speech Level RCV: 85.94 dB[SPL], Act.: 80.28% Ok

Ok

3/12/2024 4:46 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



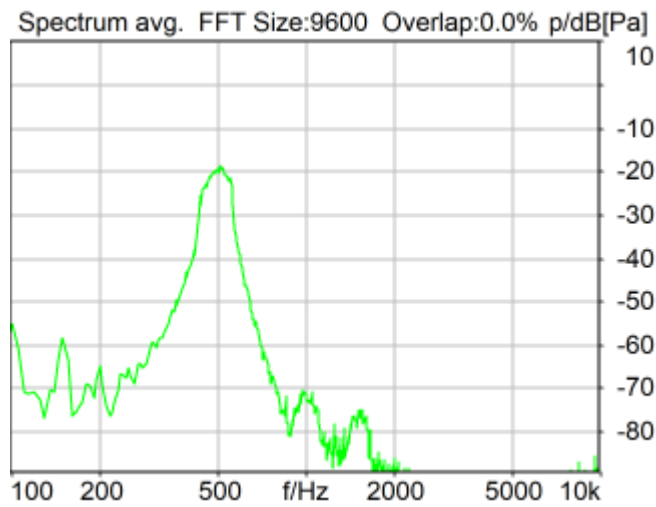
Distortion (Noise) RCV (packed): 29.72 dB (3.26%) Ok

Ok

3/12/2024 4:47 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



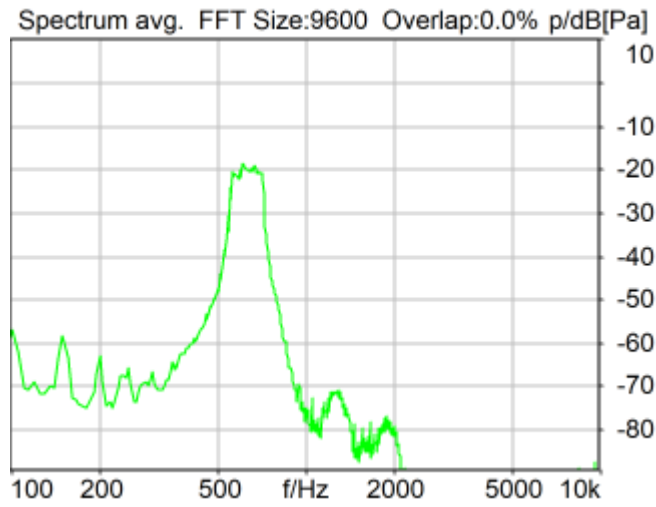
Distortion (Noise) RCV (packed): 27.99 dB (3.99%) Ok

Ok

3/12/2024 4:47 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



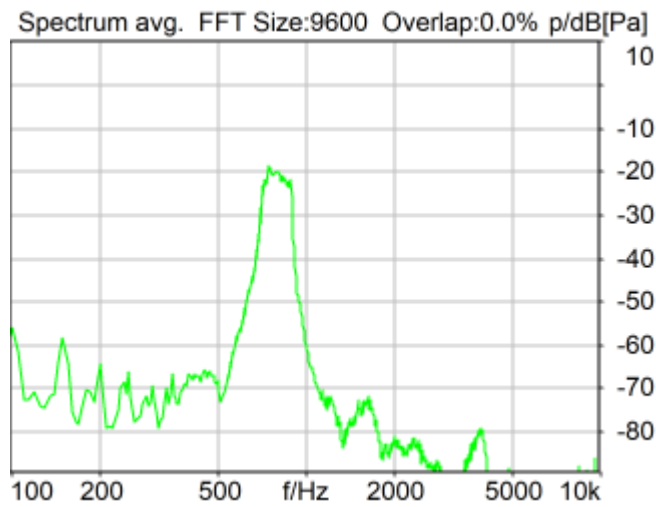
Distortion (Noise) RCV (packed): 29.69 dB (3.28%) Ok

Ok

3/12/2024 4:48 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



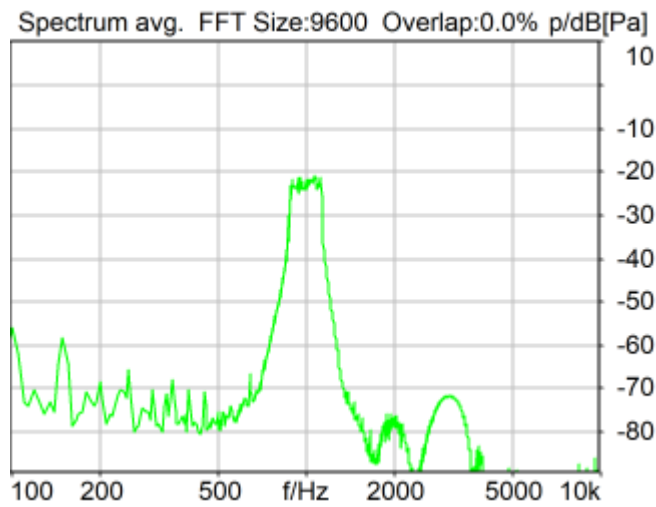
Distortion (Noise) RCV (packed): 30.21 dB (3.09%) Ok

Ok

3/12/2024 4:48 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



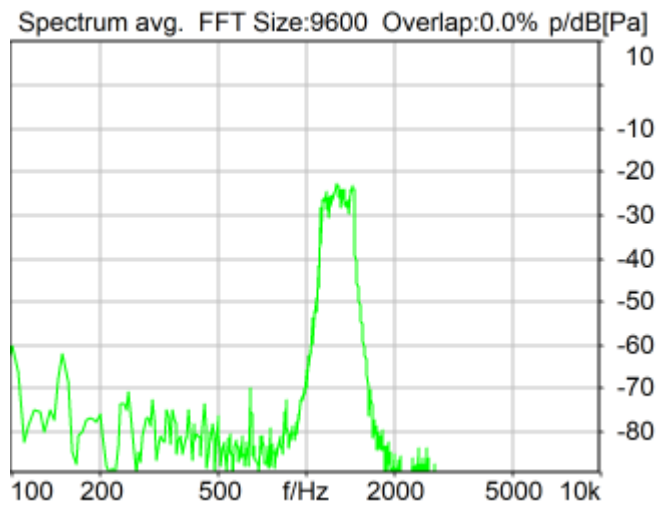
Distortion (Noise) RCV (packed): 26.10 dB (4.96%) Ok

Ok

3/12/2024 4:49 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



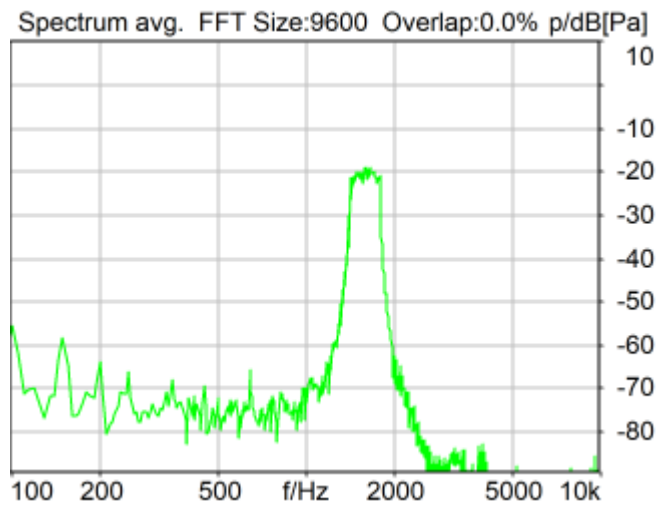
Distortion (Noise) RCV (packed): 20.20 dB (9.77%) Ok

Ok

3/12/2024 4:52 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



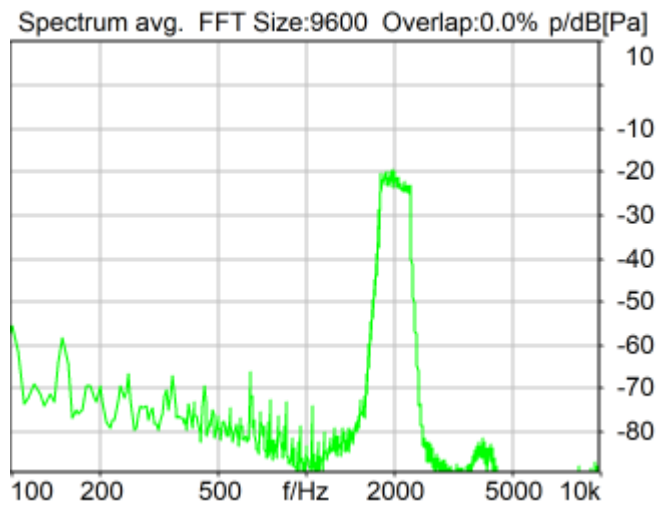
Distortion (Noise) RCV (packed): 28.41 dB (3.80%) Ok

Ok

3/12/2024 4:50 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



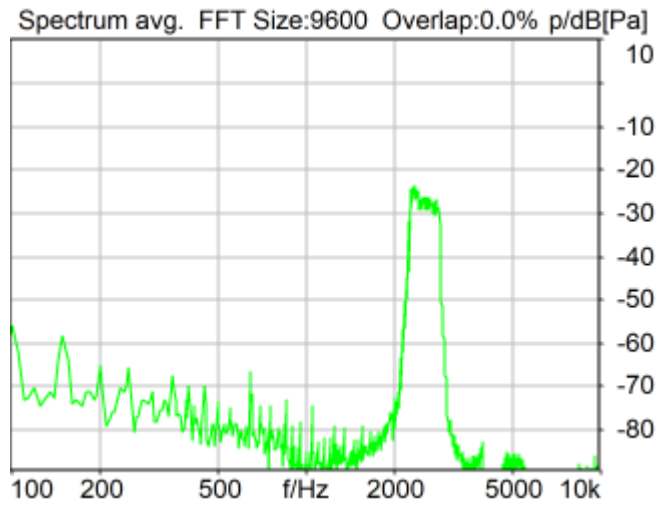
Distortion (Noise) RCV (packed): 28.25 dB (3.87%) Ok

Ok

3/12/2024 4:50 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



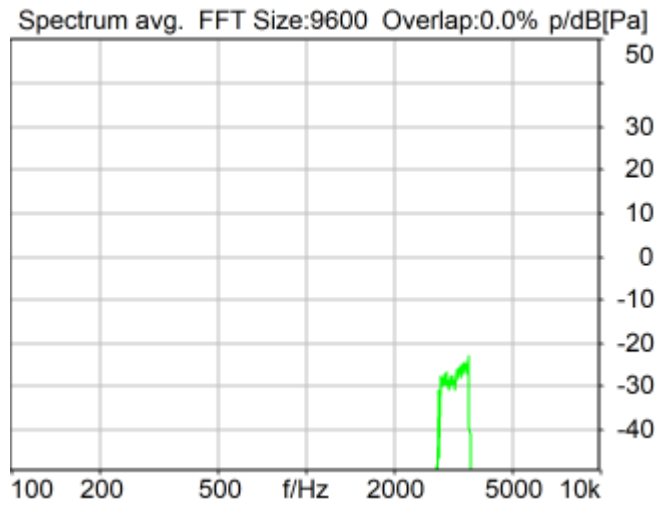
Distortion (Noise) RCV (packed): 28.91 dB (3.59%) Ok

Ok

3/12/2024 4:50 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): 30.24 dB (3.08%) Ok

Ok

3/12/2024 4:51 AM ACQUA 5.1.200

Report - Receive Distortion and Noise (Conversational Gain)

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

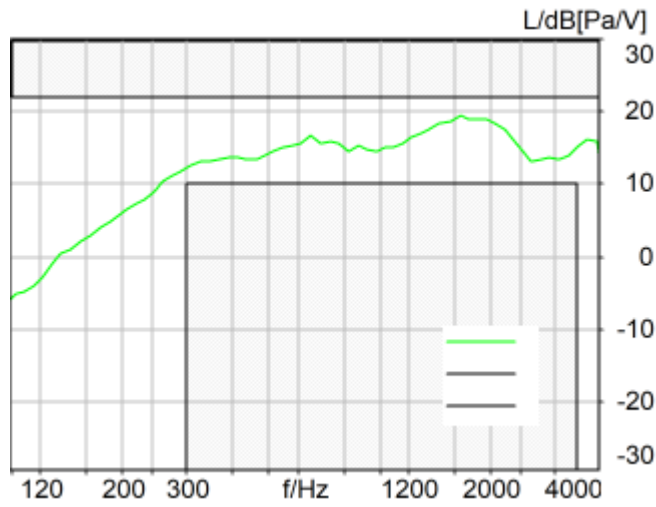
Region	Frequency	SDNR
1	400Hz	29.72 dB
2	500Hz	27.99 dB
3	630Hz	29.69 dB
4	800Hz	30.21 dB
5	1000Hz	26.10 dB
6	1600Hz	28.41 dB
7	2000Hz	28.25 dB
8	2500Hz	28.91 dB
9	3150Hz	30.24 dB
10	1250Hz	20.20 dB

All SDNRs were greater than 20.0 dB, requirement was met.
Smallest SDNR was 20.20dB at 1250Hz.

3/12/2024 4:53 AM ACQUA

5.3 Frequency Response 8N FF HANB

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



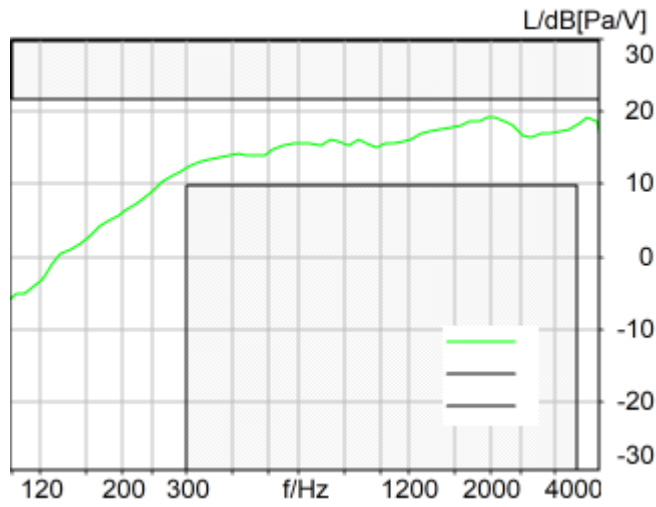
Absolute minimal distance
2.50 dB at 1647.8 Hz Ok

Ok

3/12/2024 4:51 AM ACQUA 5.1.200

5.3 Frequency Response 8N DF HANB

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



Absolute minimal distance
2.71 dB at 2057.5 Hz Ok

Ok

3/12/2024 4:52 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps_Ch157_2N
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Project	422203
Report Generation Date	3/12/2024 6:31 AM
Responsible Person	AC01-KS

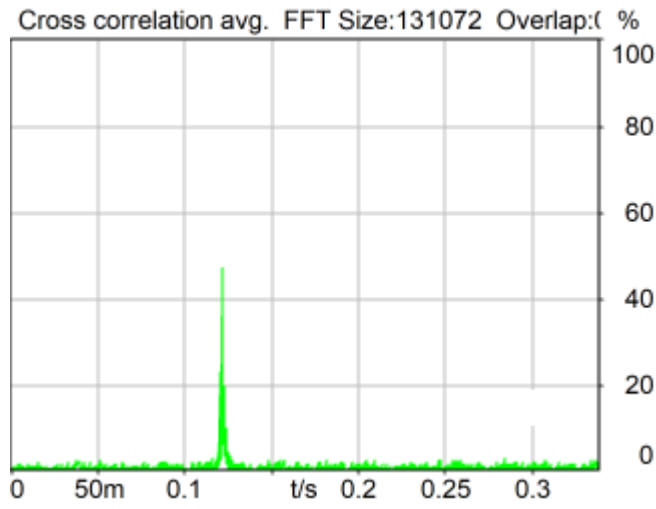
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	121.4	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.57	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.98	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	29.04	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.72	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.55	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	21.48	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.87	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.11	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.49	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.98	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	25.47	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 1000Hz)	21.48	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 1747.8 Hz	2.45	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	1.04	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch157_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

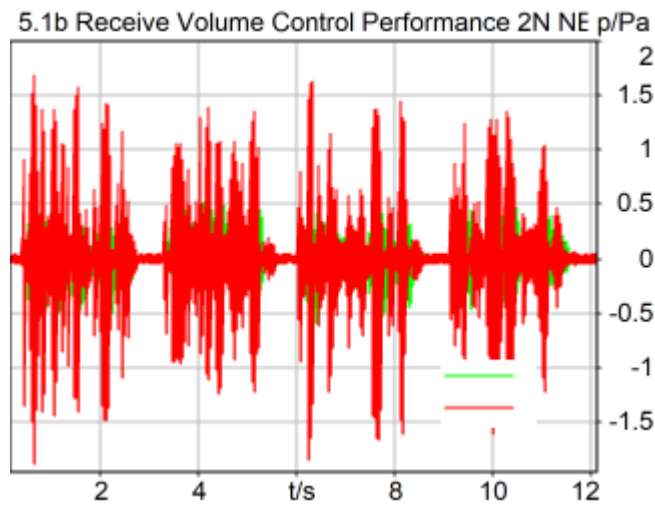


Delay (Cross): 121.4 ms

3/12/2024 6:26 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



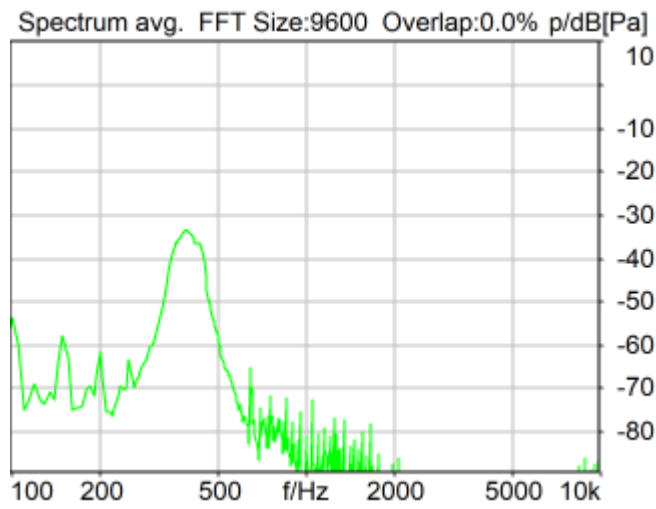
Speech Level RCV: 80.57 dB[SPL], Act.: 81.84% Ok

Ok

3/12/2024 6:20 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 2N



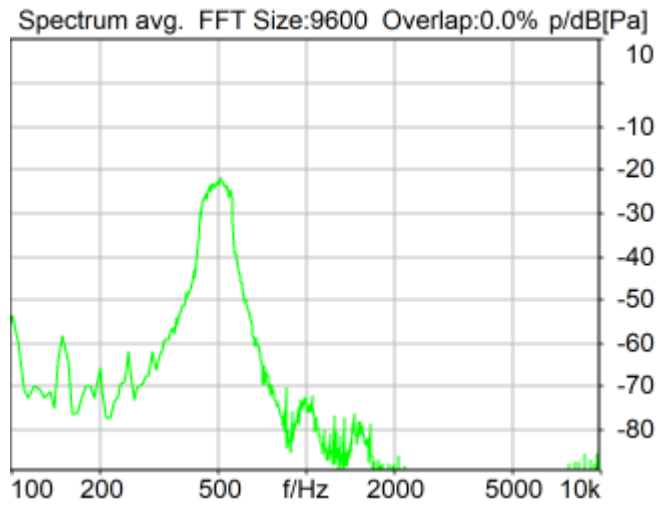
Distortion (Noise) RCV (packed): 25.98 dB (5.02%) Ok

Ok

3/12/2024 6:20 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 2N



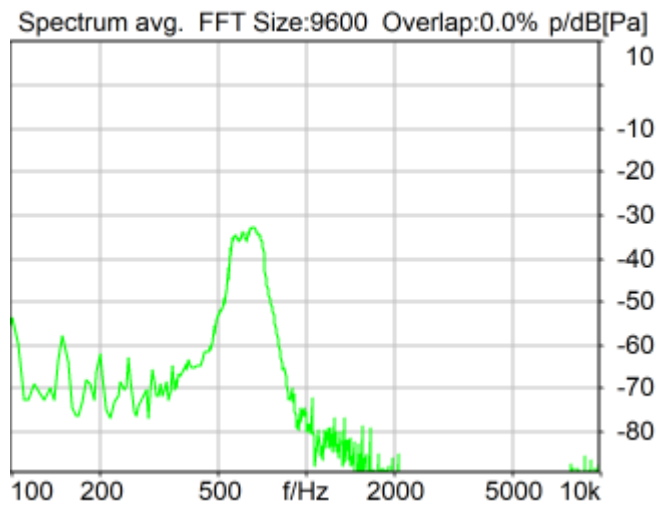
Distortion (Noise) RCV (packed): 29.04 dB (3.53%) Ok

Ok

3/12/2024 6:21 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 2N



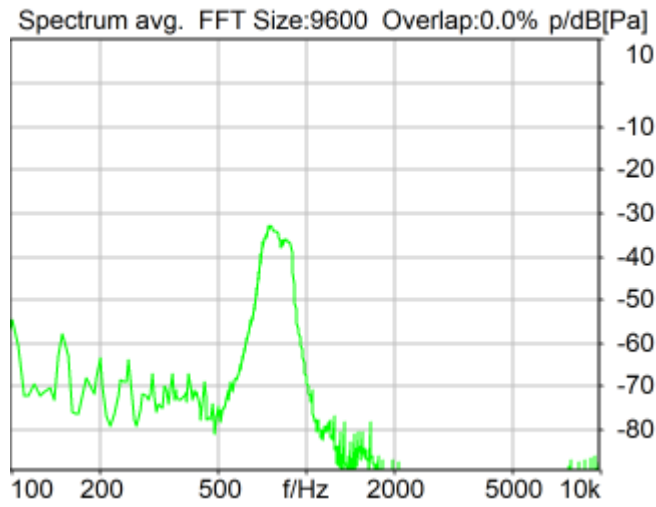
Distortion (Noise) RCV (packed): 21.72 dB (8.20%) Ok

Ok

3/12/2024 6:21 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 2N



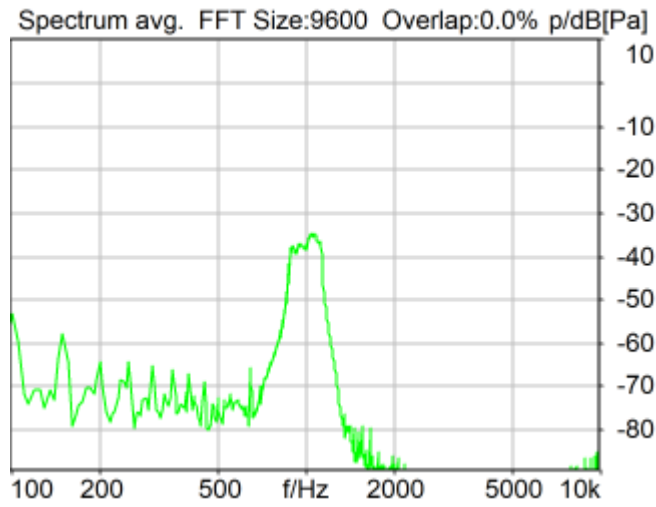
Distortion (Noise) RCV (packed): 24.55 dB (5.92%) Ok

Ok

3/12/2024 6:22 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 2N



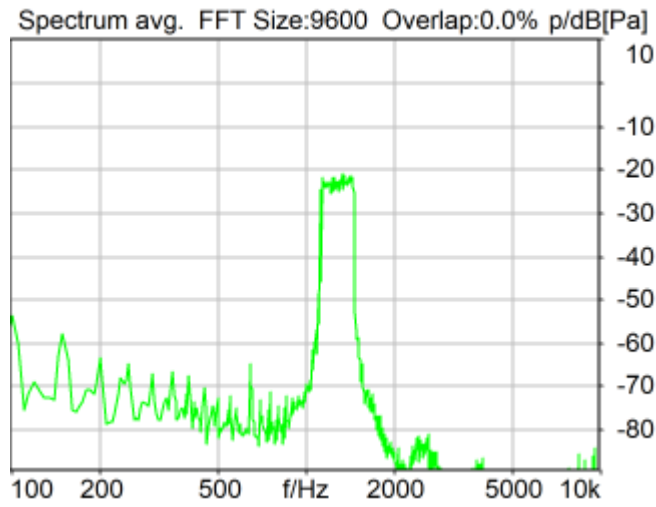
Distortion (Noise) RCV (packed): 21.48 dB (8.43%) Ok

Ok

3/12/2024 6:22 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 2N



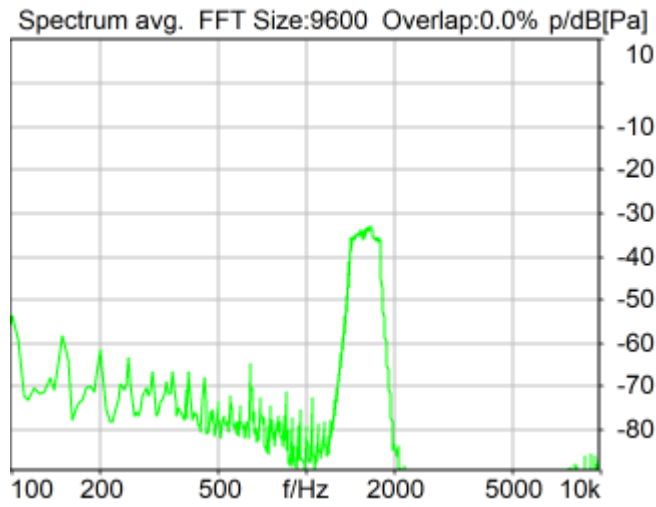
Distortion (Noise) RCV (packed): 32.87 dB (2.27%) Ok

Ok

3/12/2024 6:27 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 2N



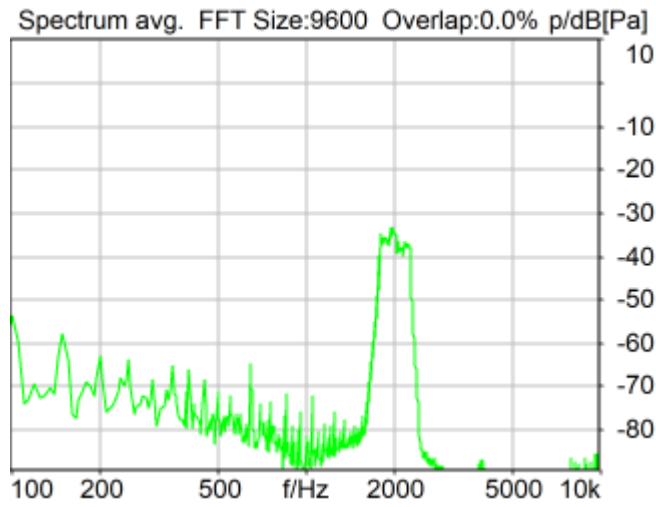
Distortion (Noise) RCV (packed): 25.11 dB (5.55%) Ok

Ok

3/12/2024 6:23 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 2N



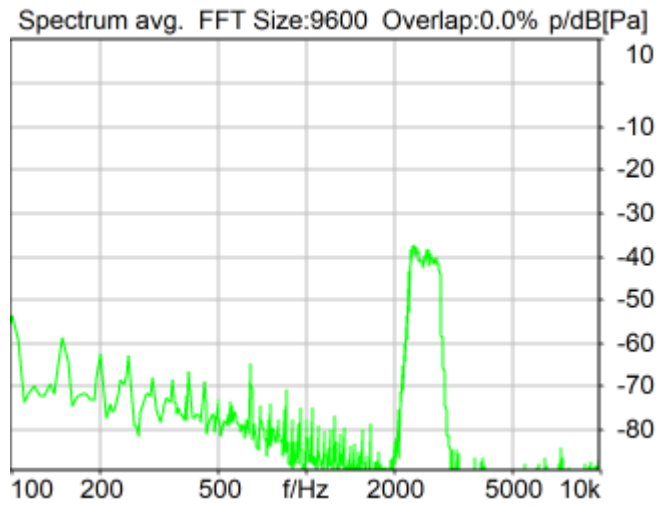
Distortion (Noise) RCV (packed): 23.49 dB (6.69%) Ok

Ok

3/12/2024 6:23 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 2N



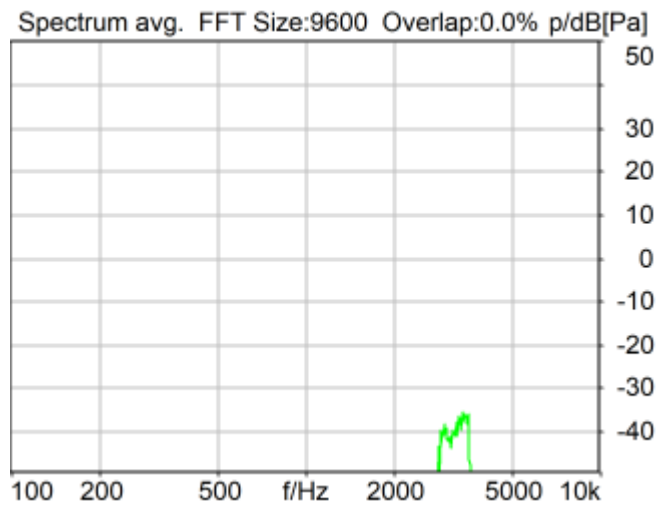
Distortion (Noise) RCV (packed): 23.98 dB (6.32%) Ok

Ok

3/12/2024 6:24 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 2N



Distortion (Noise) RCV (packed): 25.47 dB (5.33%) Ok

Ok

3/12/2024 6:24 AM 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	25.98 dB
2	500Hz	29.04 dB
3	630Hz	21.72 dB
4	800Hz	24.55 dB
5	1000Hz	21.48 dB
6	1600Hz	25.11 dB
7	2000Hz	23.49 dB
8	2500Hz	23.98 dB
9	3150Hz	25.47 dB
10	1250Hz	32.87 dB

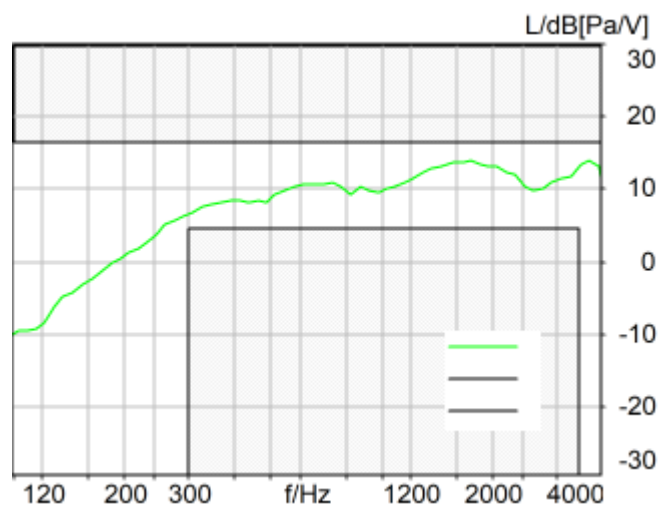
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 21.48dB at 1000Hz.

3/12/2024 6:30 AM ACQUA

5.3 Frequency Response 2N FF HANB

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



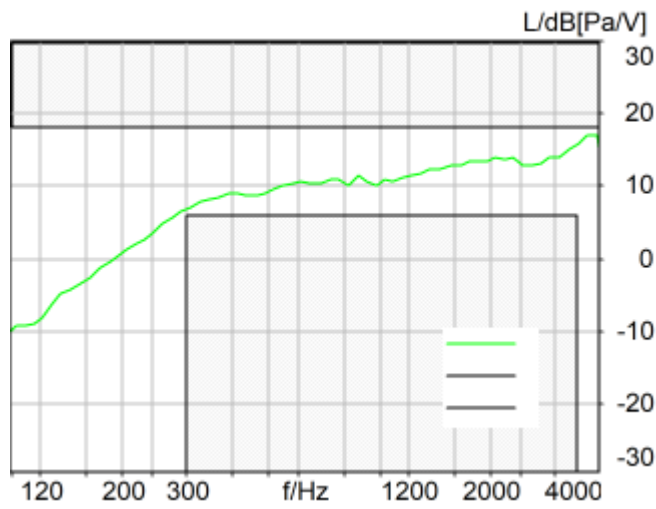
Absolute minimal distance
2.45 dB at 1747.8 Hz Ok

Ok

3/12/2024 6:25 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.04 dB at 3657.5 Hz Ok

Ok

3/12/2024 6:25 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	GSM850_GSM Voice_AMR NB 4.75kbps_Ch189_8N
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Project	422203
Report Generation Date	3/13/2024 11:55 PM
Responsible Person	AC01-KS

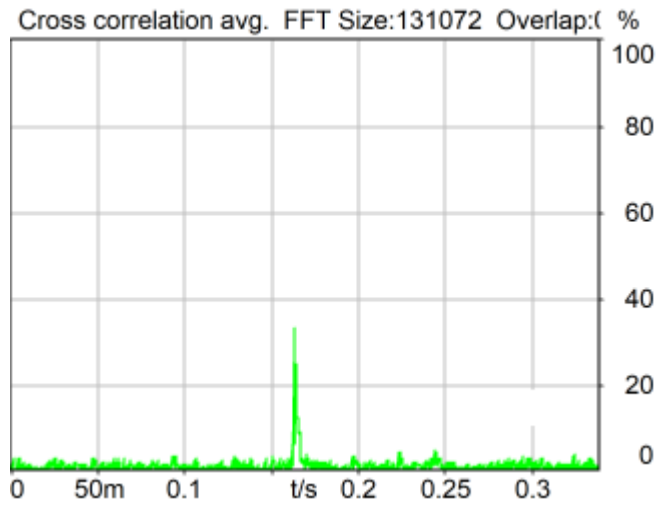
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	163.4	GSM850_GSM Voice_AMR NB 4. 75kbps_Ch189_8N
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	84.31	GSM850_GSM Voice_AMR NB 4. 75kbps_Ch189_8N

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

Overall Receive Delay NB

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



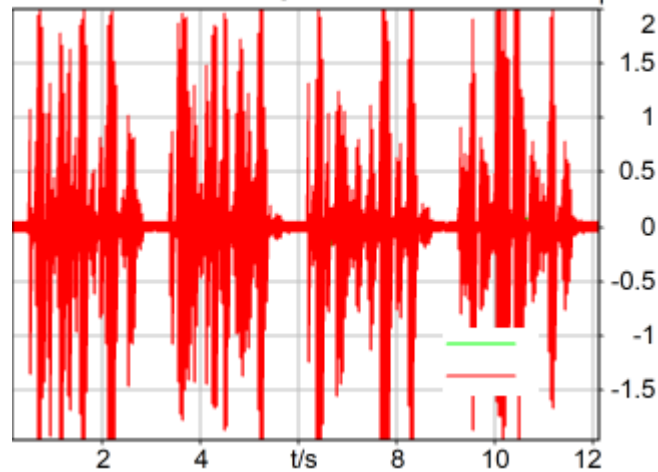
Delay (Cross): 163.4 ms

3/13/2024 11:54 PM ACQUA 5.1.200

5.1a Receive Volume Control Performance 8N NB

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

5.1a Receive Volume Control Performance 8N NE p/Pa



Speech Level RCV: 84.31 dB[SPL], Act.: 80.70% Ok

Ok

3/13/2024 11:54 PM ACQUA 5.1.200

Measurement Protocol

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

Project	422203
Report Generation Date	3/14/2024 12:45 AM
Responsible Person	AC01-KS

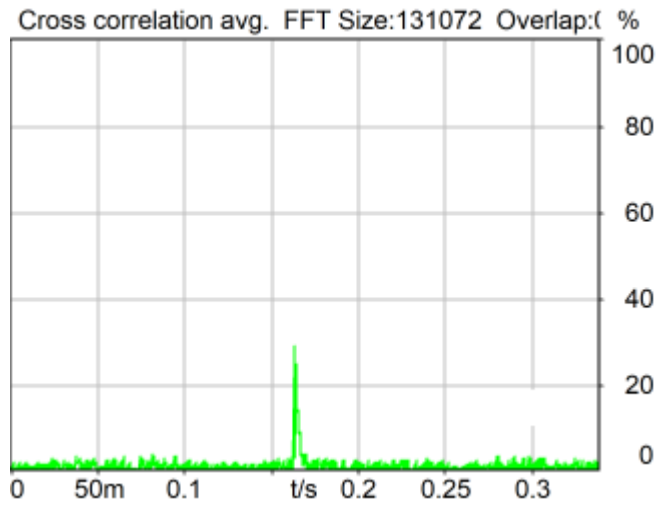
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	163.7	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	79.19	GSM1900_GSM Voice_AMR NB 4.75kbps_Ch661_2N

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

Overall Receive Delay NB

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



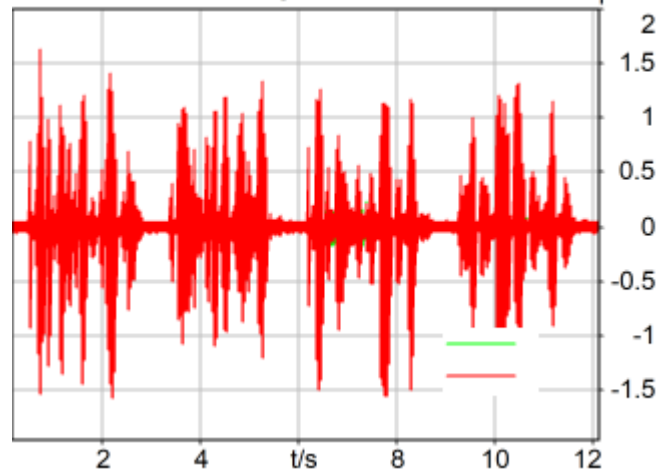
Delay (Cross): 163.7 ms

3/14/2024 12:22 AM ACQUA 5.1.200

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: 79.19 dB[SPL], Act.: 80.26% Ok

Ok

3/14/2024 12:22 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WCDMA II_Voice_AMR WB 6.60kbps_Ch9400_2N
--------------------	--

Project	422203
Report Generation Date	3/14/2024 1:51 AM
Responsible Person	AC01-KS

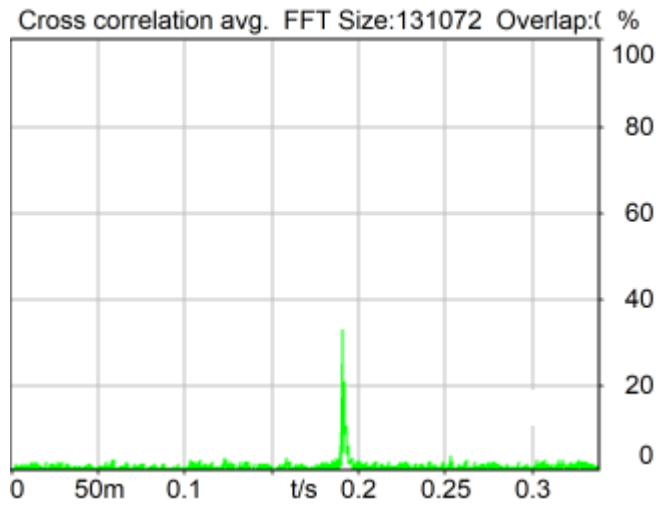
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	192.0	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_2N
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	78.98	WCDMA II_Voice_AMR WB 6. 60kbps_Ch9400_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): 192.0 ms

3/14/2024 1:50 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



Speech Level RCV: 78.98 dB[SPL], Act.: 81.26% Ok

Ok

3/14/2024 1:51 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N
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Project	422203
Report Generation Date	3/14/2024 8:14 PM
Responsible Person	AC01-KS

Status Overview

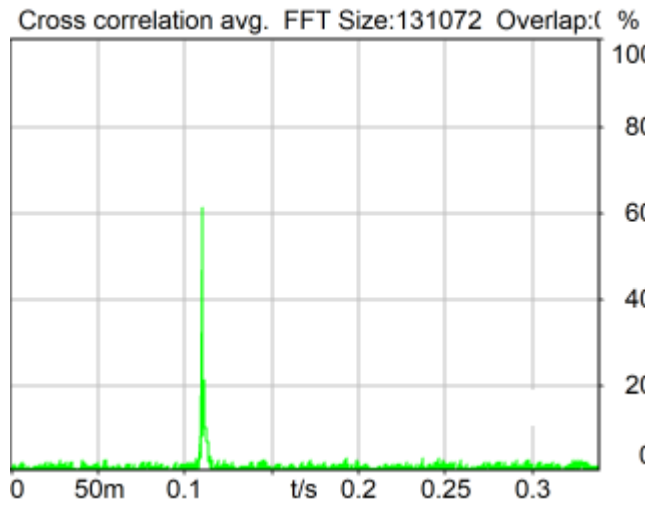
SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay WB	Done	Delay (Cross) [ms]	111.1	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	79.90	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	38.62	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 315 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	39.47	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 400 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.76	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.49	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 630 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	41.92	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 800 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.94	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 1000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	40.79	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 1250 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	33.92	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 1600 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.93	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 2000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.85	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 2500 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.59	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 3150 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	43.05	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 4000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	44.08	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.2 RCV Distortion and Noise - 5000 Hz WB	Ok	Distortion (Noise) [dB], 0.0 dB	50.40	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
Report - Receive Distortion	Ok	Minimum SDNR [dB],	33.92	LTE Band

and Noise (Conversational Gain)		(occured at 1250Hz)		7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.3 Frequency Response 2N FF	Ok	Min. dist. to tolerance scheme [dB], 4870.0 Hz	1.21	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-
5.3 Frequency Response 2N DF	Ok	Min. dist. to tolerance scheme [dB], 4870.0 Hz	0.13	LTE Band 7_20M_QPSK_1RB_0Offset_EVS WB 128kbps_Ch21100_2N-

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

Overall Receive Delay WB

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

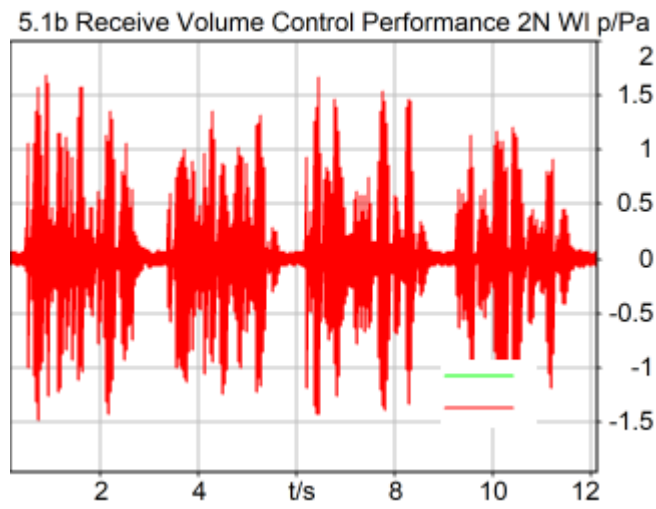


Delay (Cross): 111.1 ms

3/14/2024 7:55 PM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N WB

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



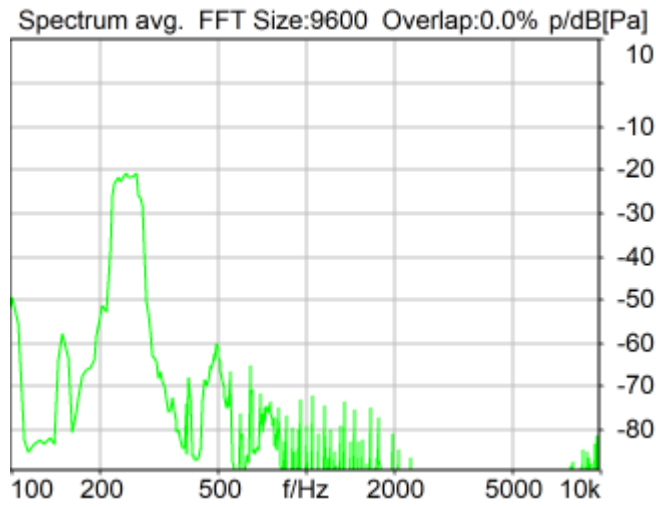
Speech Level RCV: 79.90 dB[SPL], Act.: 84.08% Ok

Ok

3/14/2024 7:55 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



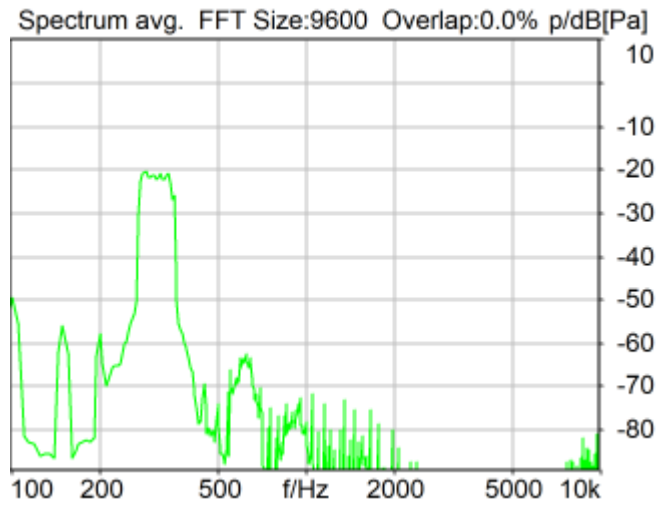
Distortion (Noise) RCV (packed): 38.62 dB (1.17%) Ok

Ok

3/14/2024 7:55 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



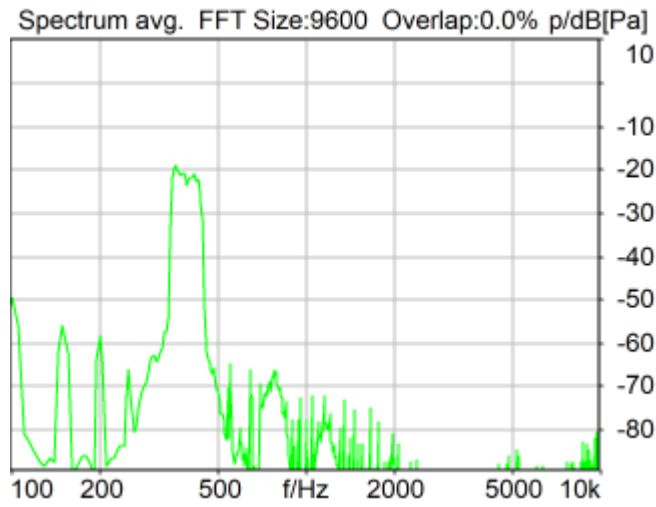
Distortion (Noise) RCV (packed): 39.47 dB (1.06%) Ok

Ok

3/14/2024 7:56 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



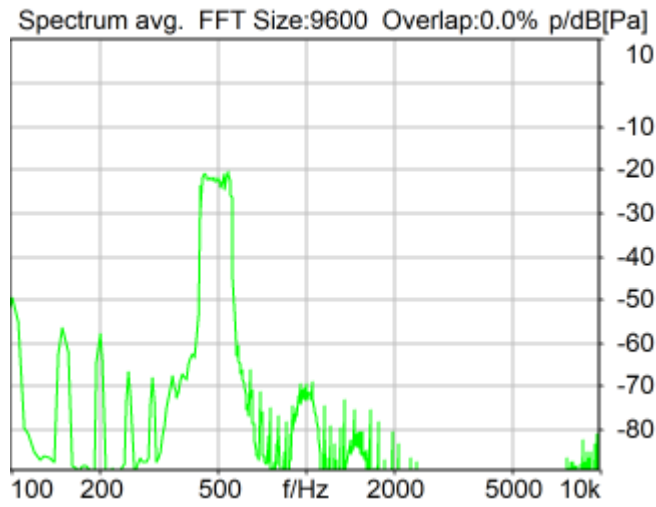
Distortion (Noise) RCV (packed): 40.76 dB (0.92%) Ok

Ok

3/14/2024 7:56 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



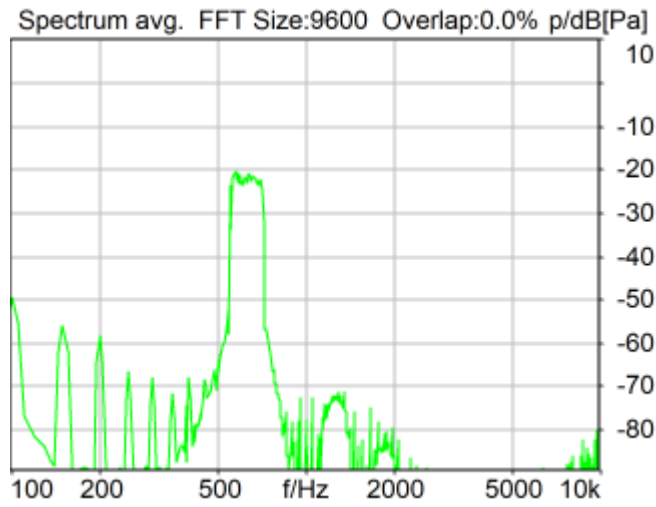
Distortion (Noise) RCV (packed): 41.49 dB (0.84%) Ok

Ok

3/14/2024 7:57 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



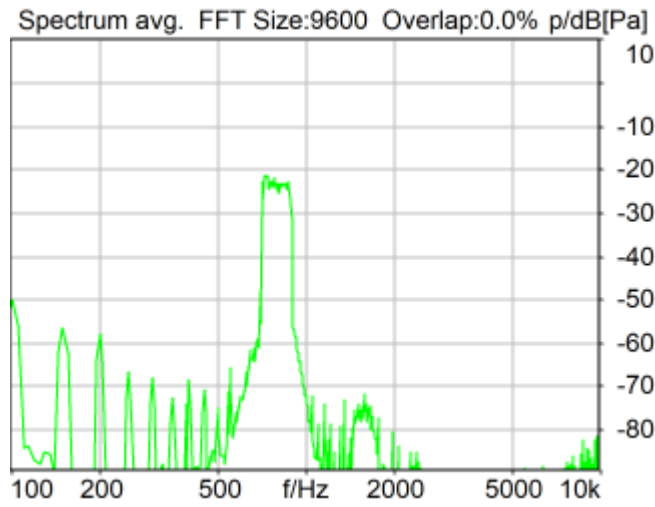
Distortion (Noise) RCV (packed): 41.92 dB (0.80%) Ok

Ok

3/14/2024 7:57 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



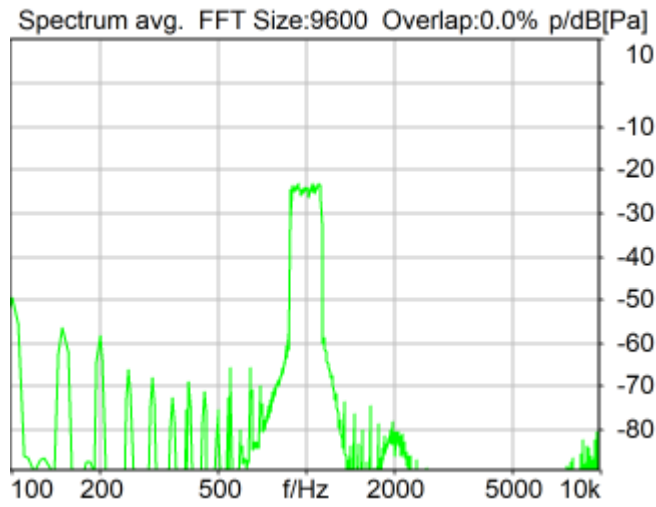
Distortion (Noise) RCV (packed): 40.94 dB (0.90%) Ok

Ok

3/14/2024 7:58 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



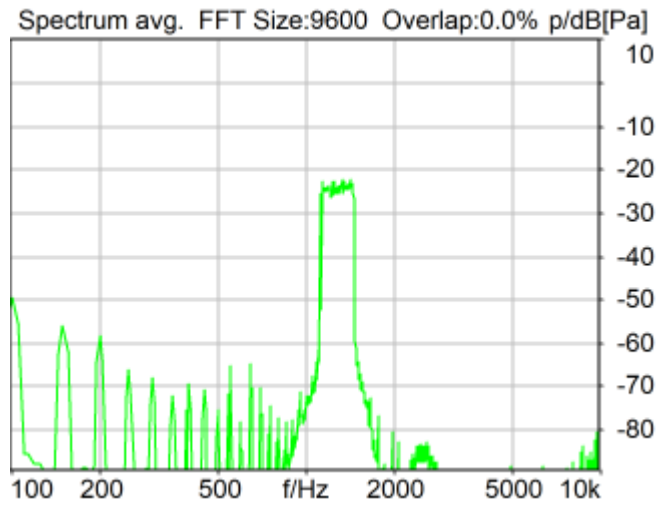
Distortion (Noise) RCV (packed): 40.79 dB (0.91%) Ok

Ok

3/14/2024 7:58 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



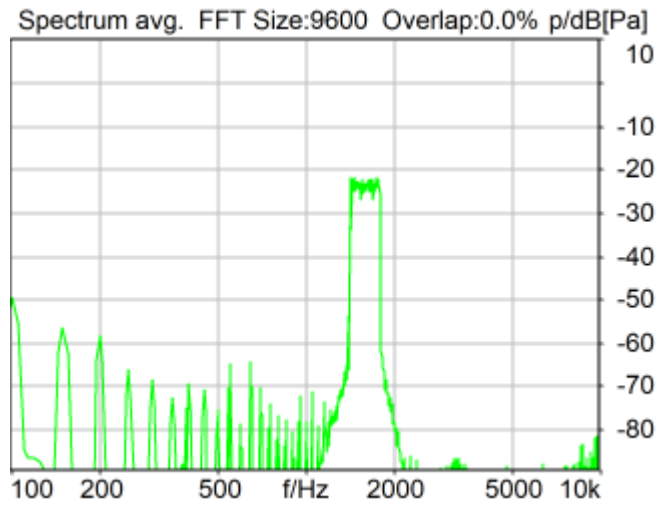
Distortion (Noise) RCV (packed): 33.92 dB (2.01%) Ok

Ok

3/14/2024 7:58 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



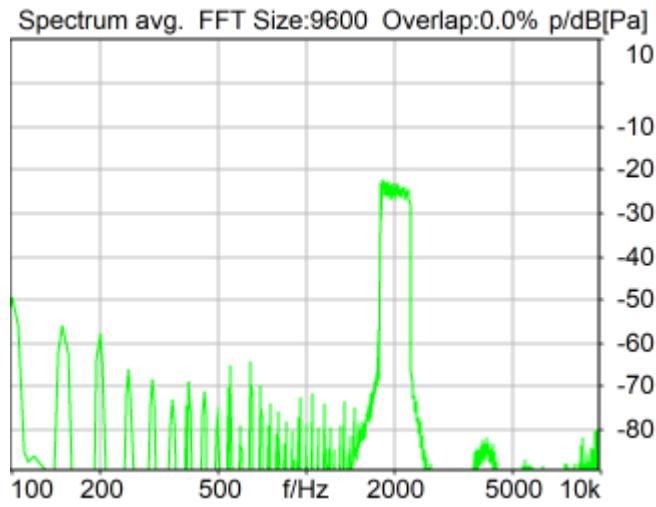
Distortion (Noise) RCV (packed): 43.93 dB (0.64%) Ok

Ok

3/14/2024 7:59 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



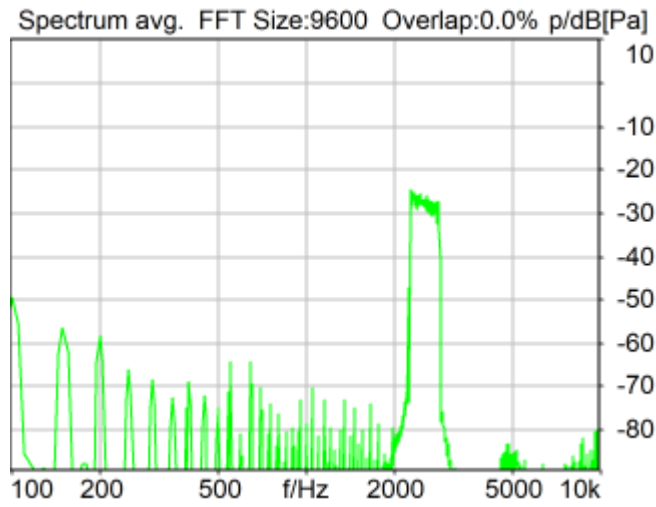
Distortion (Noise) RCV (packed): 43.85 dB (0.64%) Ok

Ok

3/14/2024 7:59 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



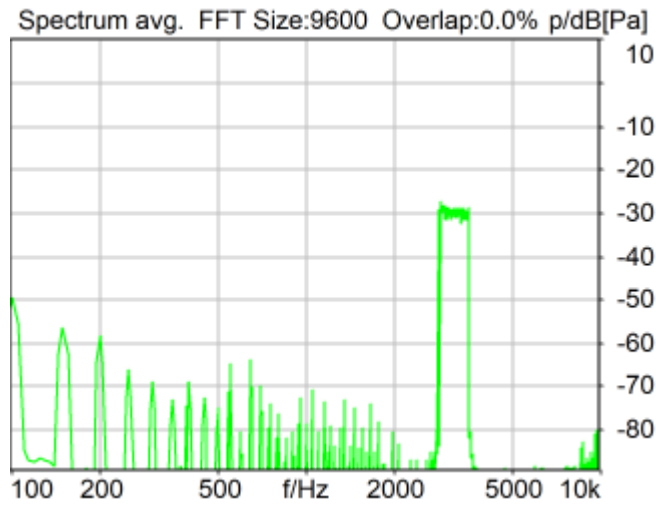
Distortion (Noise) RCV (packed): 43.59 dB (0.66%) Ok

Ok

3/14/2024 8:00 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



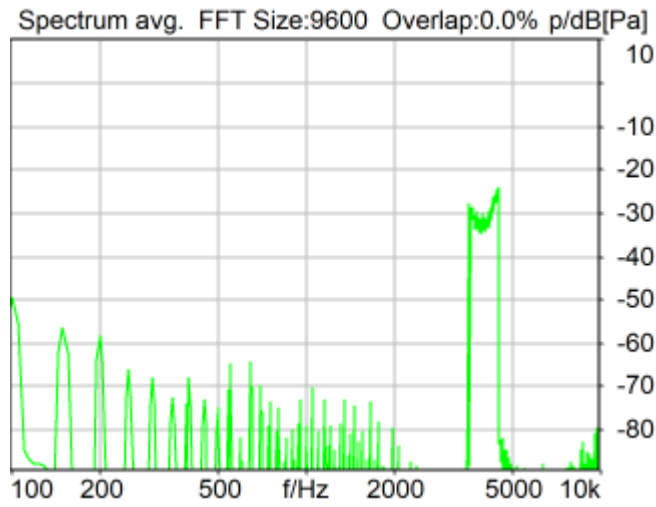
Distortion (Noise) RCV (packed): 43.05 dB (0.70%) Ok

Ok

3/14/2024 8:00 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



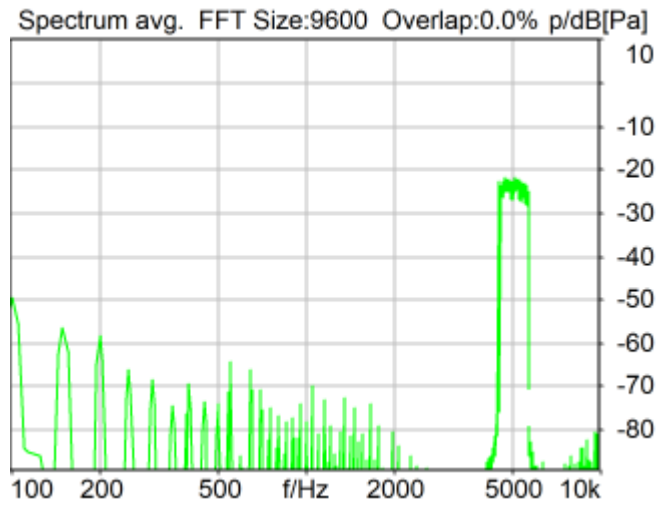
Distortion (Noise) RCV (packed): 44.08 dB (0.62%) Ok

Ok

3/14/2024 8:01 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): 50.40 dB (0.30%) Ok

Ok

3/14/2024 8:01 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	38.62 dB
2	315Hz	39.47 dB
3	400Hz	40.76 dB
4	500Hz	41.49 dB
5	630Hz	41.92 dB
6	800Hz	40.94 dB
7	1000Hz	40.79 dB
8	1250Hz	33.92 dB
9	1600Hz	43.93 dB
10	2000Hz	43.85 dB
11	2500Hz	43.59 dB
12	3150Hz	43.05 dB
13	4000Hz	44.08 dB
14	5000Hz	50.40 dB

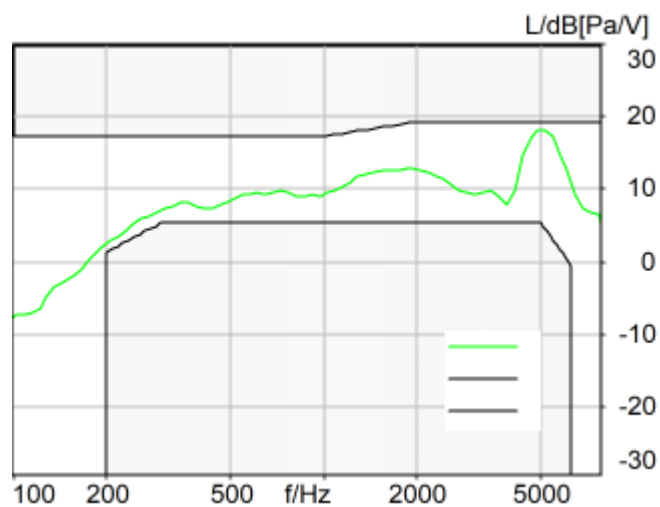
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 33.92dB at 1250Hz.

3/14/2024 8:01 PM ACQUA

5.3 Frequency Response 2N FF

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



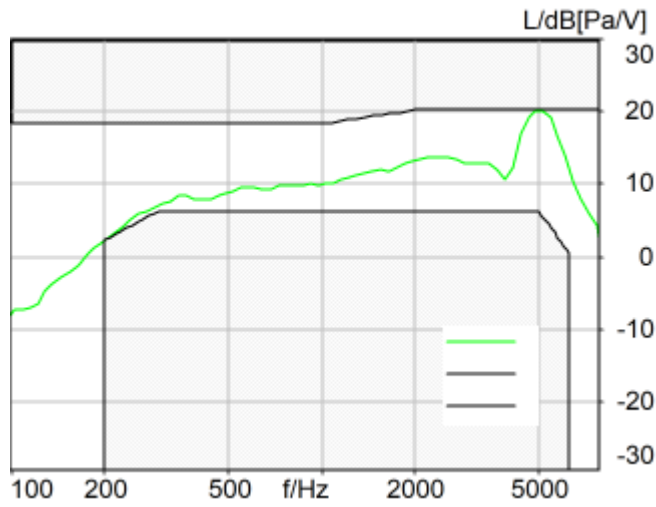
Absolute minimal distance
1.21 dB at 4870.0 Hz Ok

Ok

3/14/2024 8:01 PM ACQUA 5.1.200

5.3 Frequency Response 2N DF

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



Absolute minimal distance
0.13 dB at 4870.0 Hz Ok

Ok

3/14/2024 8:02 PM ACQUA 5.1.200

Measurement Protocol

Measurement Object	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
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Project	422203
Report Generation Date	3/13/2024 8:10 AM
Responsible Person	AC01-KS

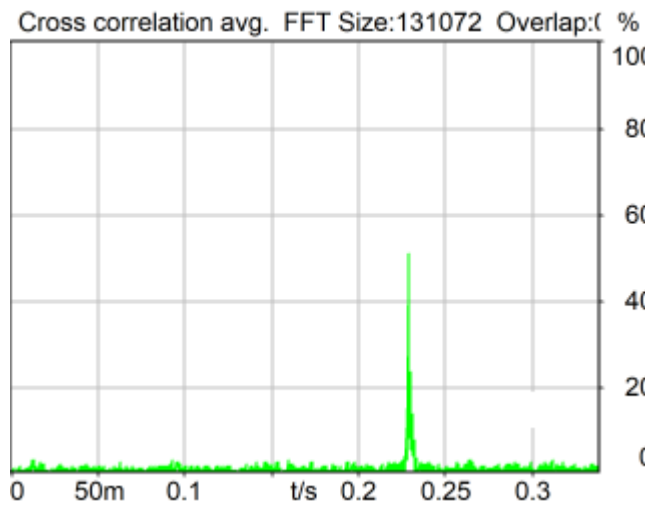
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	229.8	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	79.19	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.51	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	32.94	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.33	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	34.68	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.25	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.74	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	37.56	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.58	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	35.36	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	36.90	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
Report - Receive Distortion and Noise (Conversational Gain)	Ok	Minimum SDNR [dB], (occured at 2000Hz)	31.58	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	3.08	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	1.57	FR1 n77 27Q_100M_QPSK_1RB_1Offset_EVS NB 24.4kbps _Ch633332_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



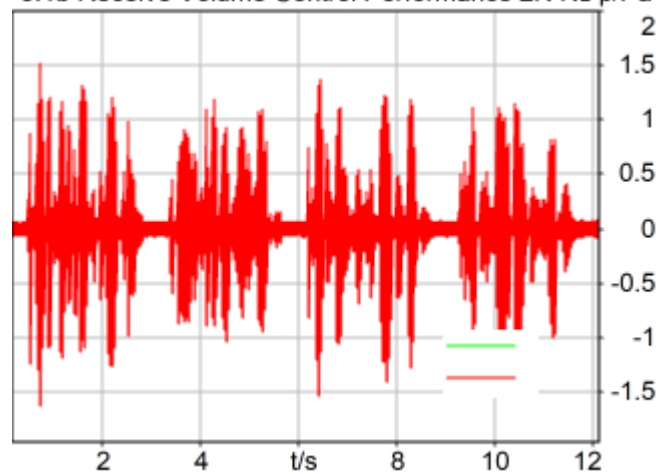
Delay (Cross): 229.8 ms

3/13/2024 8:04 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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

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



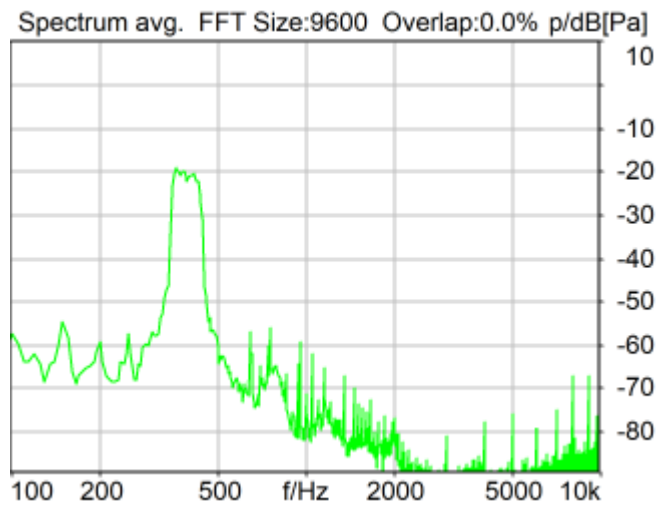
Speech Level RCV: 79.19 dB[SPL], Act.: 81.96% Ok

Ok

3/13/2024 8:04 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 2N



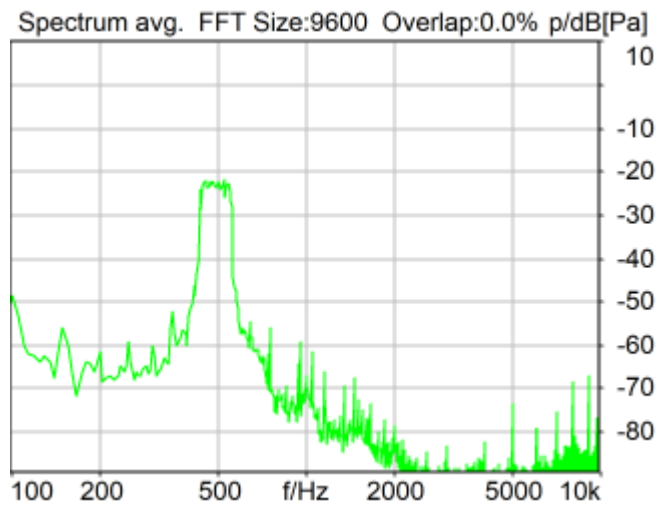
Distortion (Noise) RCV (packed): 35.51 dB (1.68%) Ok

Ok

3/13/2024 8:04 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 2N



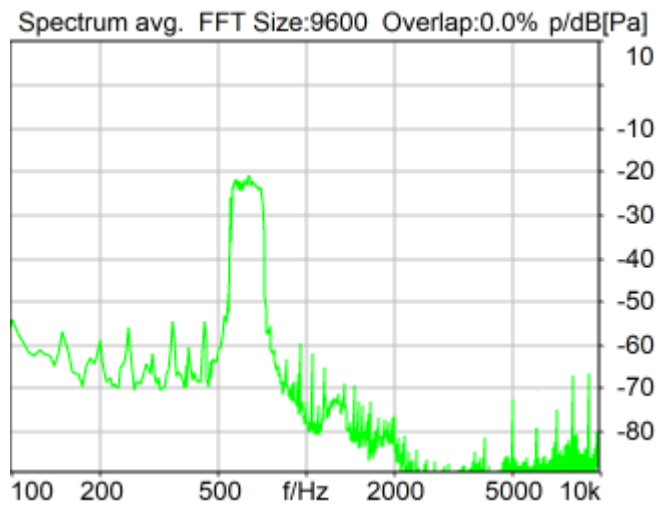
Distortion (Noise) RCV (packed): 32.94 dB (2.25%) Ok

Ok

3/13/2024 8:05 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 2N



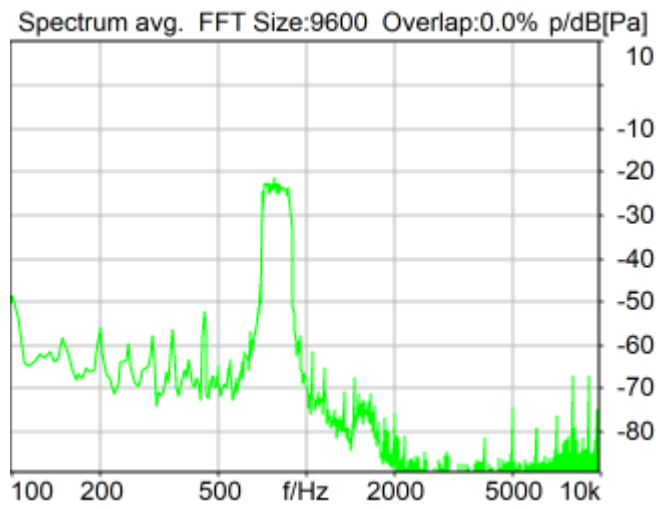
Distortion (Noise) RCV (packed): 35.33 dB (1.71%) Ok

Ok

3/13/2024 8:05 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 2N



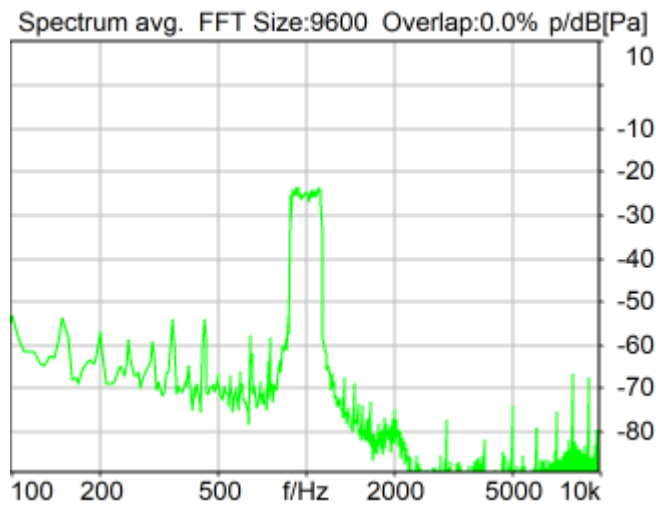
Distortion (Noise) RCV (packed): 34.68 dB (1.84%) Ok

Ok

3/13/2024 8:06 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 2N



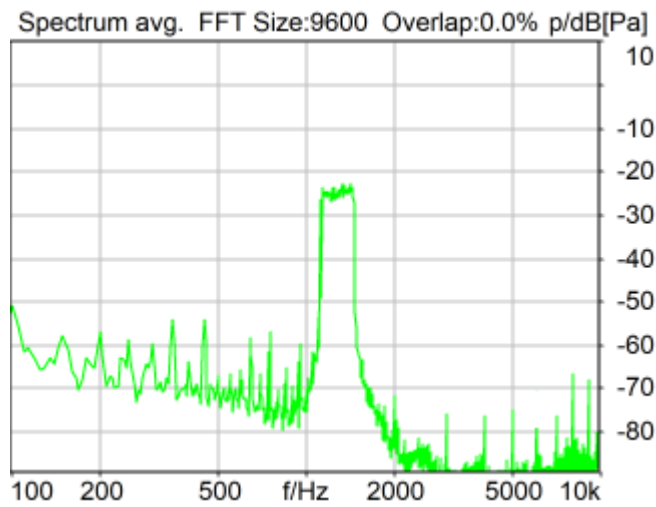
Distortion (Noise) RCV (packed): 35.25 dB (1.73%) Ok

Ok

3/13/2024 8:06 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 2N



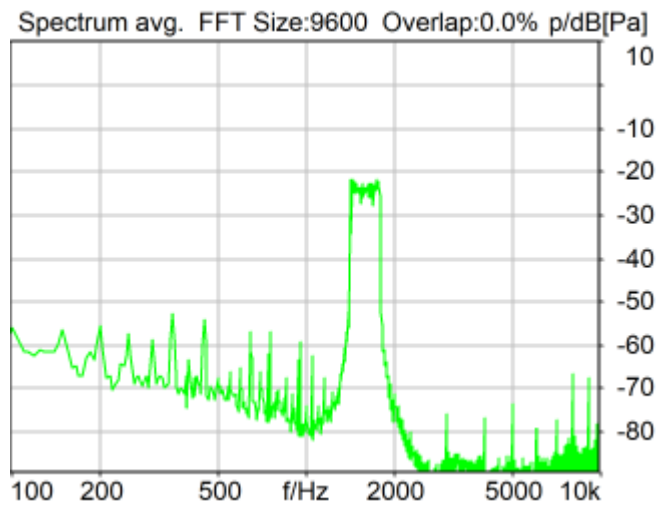
Distortion (Noise) RCV (packed): 31.74 dB (2.59%) Ok

Ok

3/13/2024 8:07 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 2N



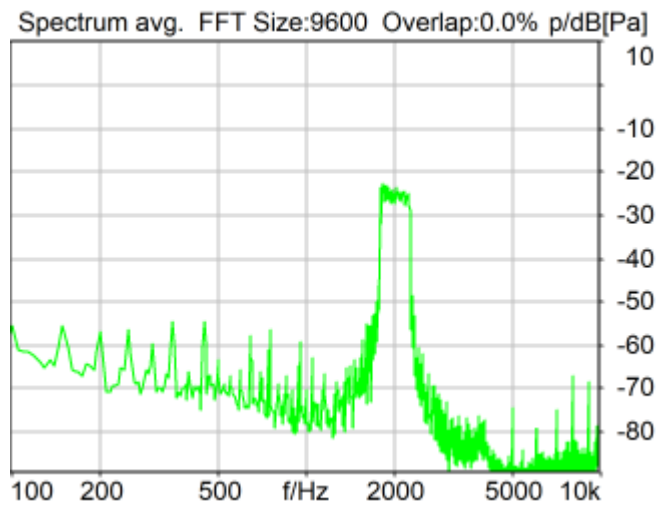
Distortion (Noise) RCV (packed): 37.56 dB (1.32%) Ok

Ok

3/13/2024 8:07 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 2N



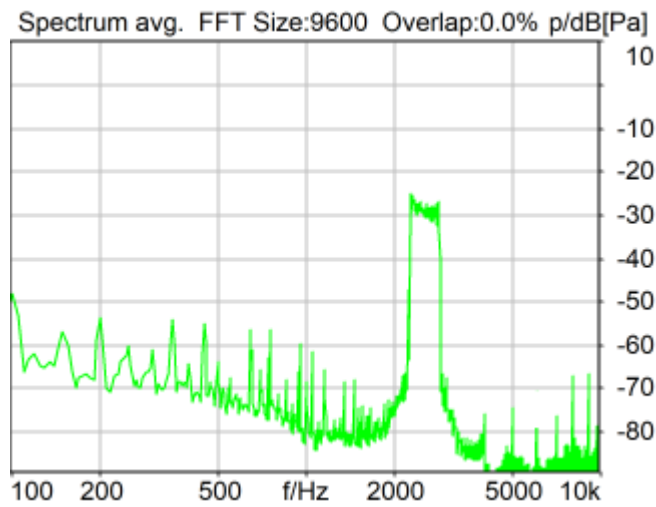
Distortion (Noise) RCV (packed): 31.58 dB (2.64%) Ok

Ok

3/13/2024 8:07 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 2N



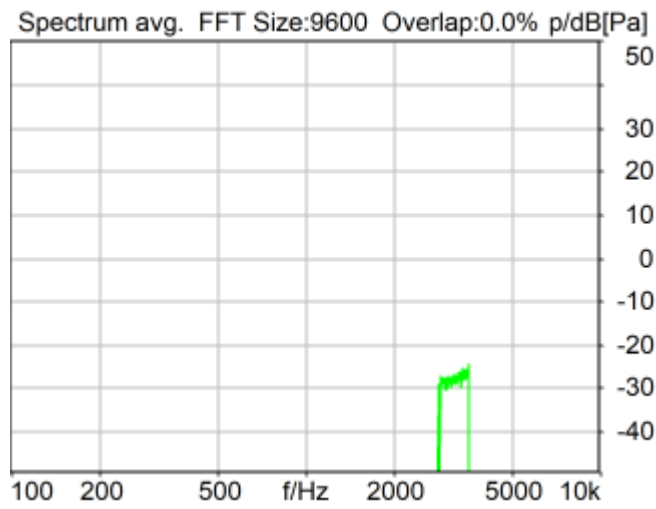
Distortion (Noise) RCV (packed): 35.36 dB (1.71%) Ok

Ok

3/13/2024 8:08 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 2N



Distortion (Noise) RCV (packed): 36.90 dB (1.43%) Ok

Ok

3/13/2024 8:08 AM 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	35.51 dB
2	500Hz	32.94 dB
3	630Hz	35.33 dB
4	800Hz	34.68 dB
5	1000Hz	35.25 dB
6	1250Hz	31.74 dB
7	1600Hz	37.56 dB
8	2000Hz	31.58 dB
9	2500Hz	35.36 dB
10	3150Hz	36.90 dB

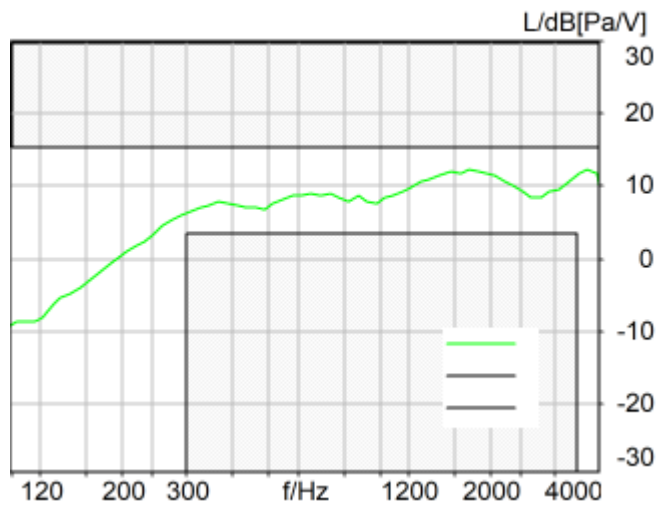
All SDNRs were greater than 20.0 dB, requirement was met.

Smallest SDNR was 31.58dB at 2000Hz.

3/13/2024 8:08 AM ACQUA

5.3 Frequency Response 2N FF HANB

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



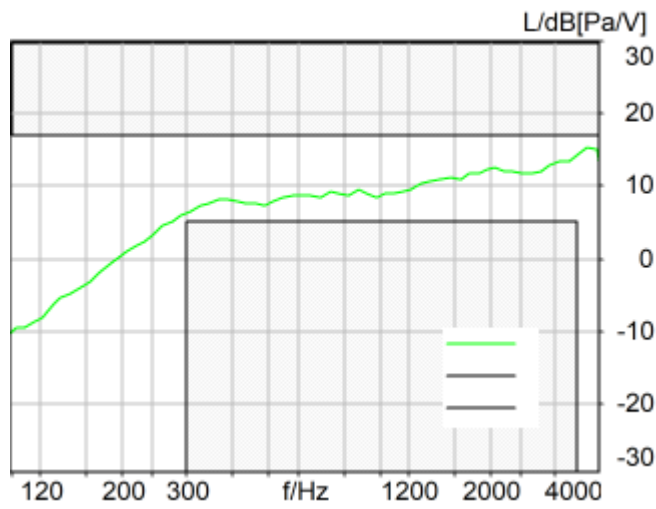
Absolute minimal distance
3.08 dB at 3657.5 Hz Ok

Ok

3/13/2024 8:09 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.57 dB at 3657.5 Hz Ok

Ok

3/13/2024 8:09 AM ACQUA 5.1.200

Measurement Protocol

Measurement Object	WLAN5GHz_802.11a 6Mbps_EVS NB 24.4kbps_Ch40_2N
--------------------	--

Project	422203
Report Generation Date	3/12/2024 3:15 AM
Responsible Person	AC01-KS

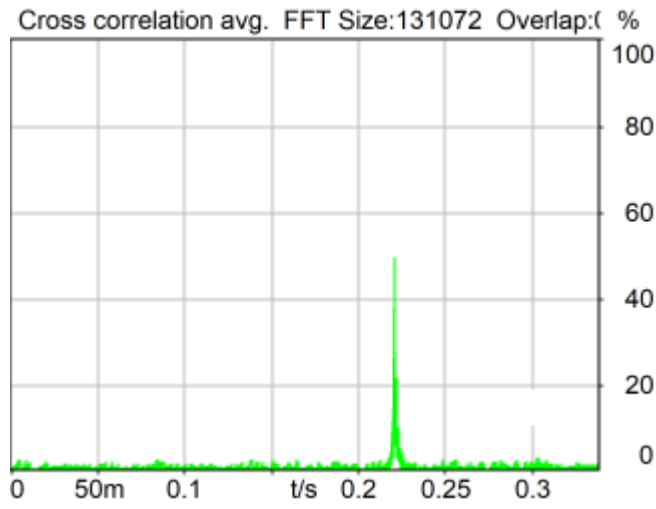
Status Overview

SMD	Status	Single Value Description	Single Value	Object
Overall Receive Delay NB	Done	Delay (Cross) [ms]	221.4	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	80.34	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 400 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	31.55	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	30.98	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 630 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.06	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 800 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.70	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.35	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1250 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	23.12	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 1600 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	27.02	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 2000 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	24.57	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 2500 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	26.40	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.2 RCV Distortion and Noise - 3150 Hz NB	Ok	Distortion (Noise) [dB], 0.0 dB	28.48	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.3 Frequency Response 2N FF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	2.37	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_2N
5.3 Frequency Response 2N DF HANB	Ok	Min. dist. to tolerance scheme [dB], 3657.5 Hz	1.03	WLAN5GHz_802.11a 6Mbps_EVS NB 24. 4kbps_Ch40_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

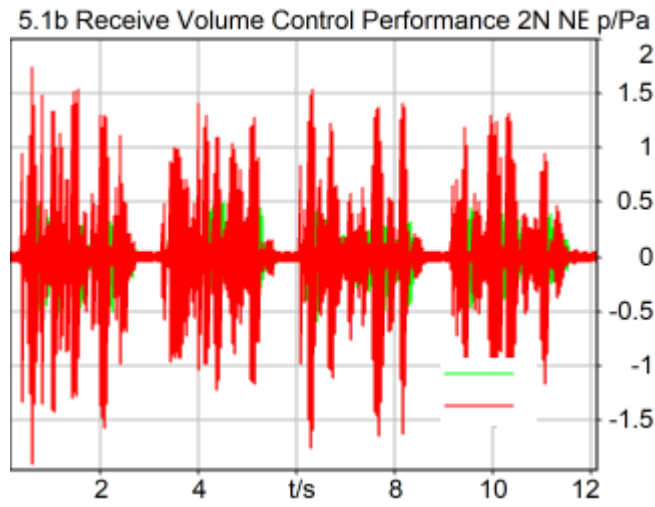


Delay (Cross): 221.4 ms

3/12/2024 3:03 AM ACQUA 5.1.200

5.1b Receive Volume Control Performance 2N NB

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



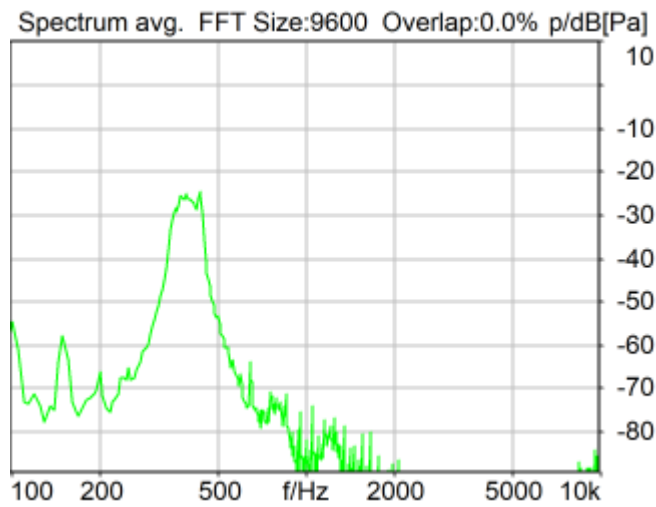
Speech Level RCV: 80.34 dB[SPL], Act.: 82.13% Ok

Ok

3/12/2024 3:10 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 2N



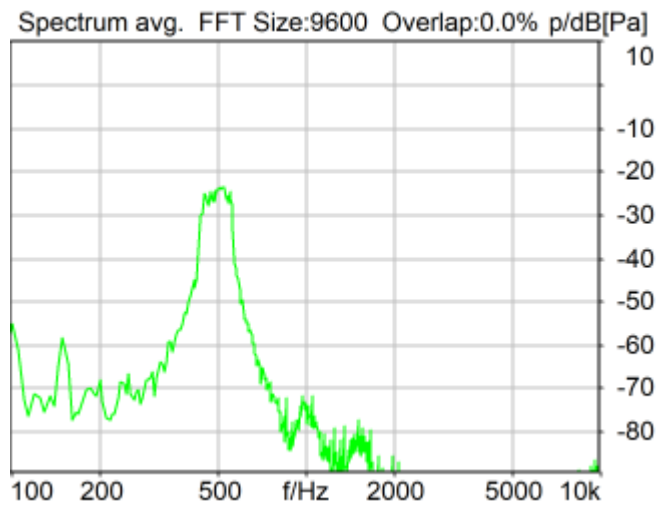
Distortion (Noise) RCV (packed): 31.55 dB (2.64%) Ok

Ok

3/12/2024 3:04 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 2N



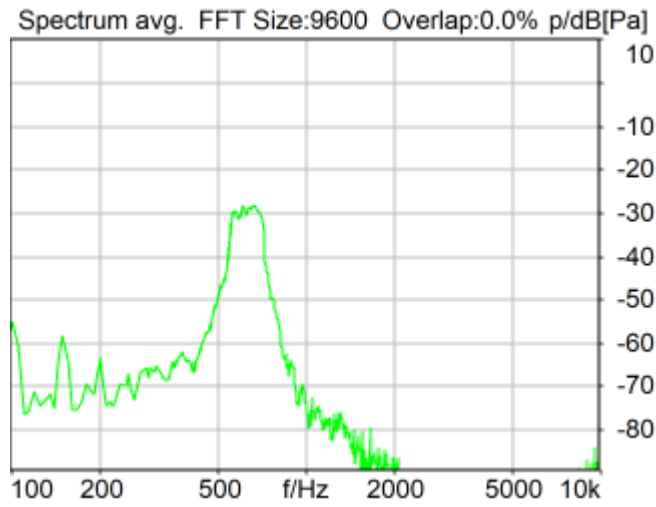
Distortion (Noise) RCV (packed): 30.98 dB (2.83%) Ok

Ok

3/12/2024 3:05 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 2N



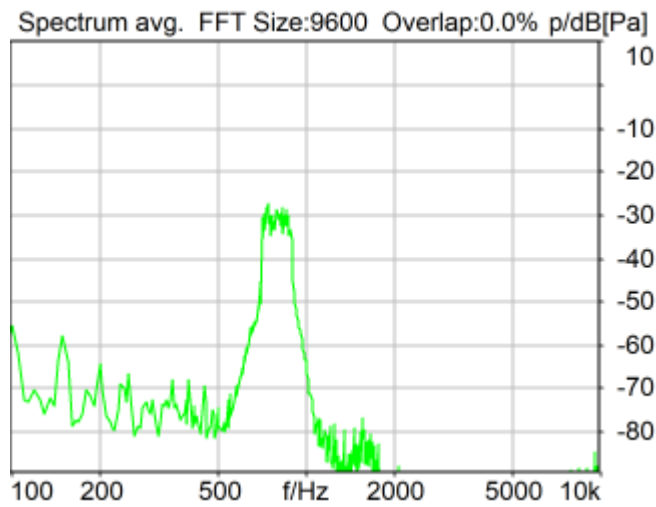
Distortion (Noise) RCV (packed): 24.06 dB (6.27%) Ok

Ok

3/12/2024 3:05 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 2N



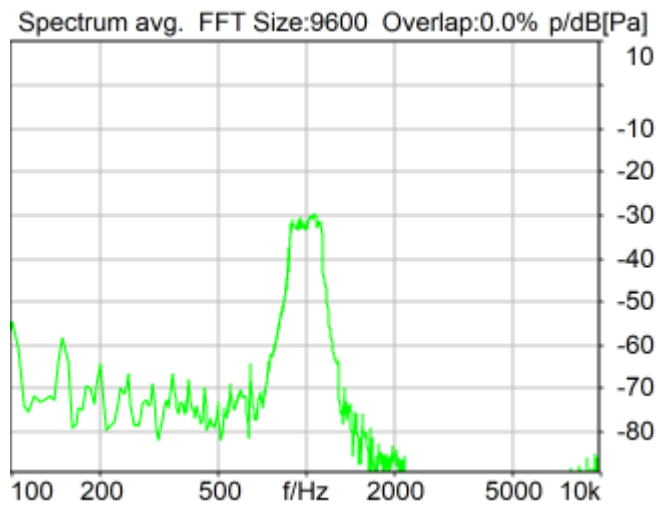
Distortion (Noise) RCV (packed): 28.70 dB (3.67%) Ok

Ok

3/12/2024 3:05 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 2N



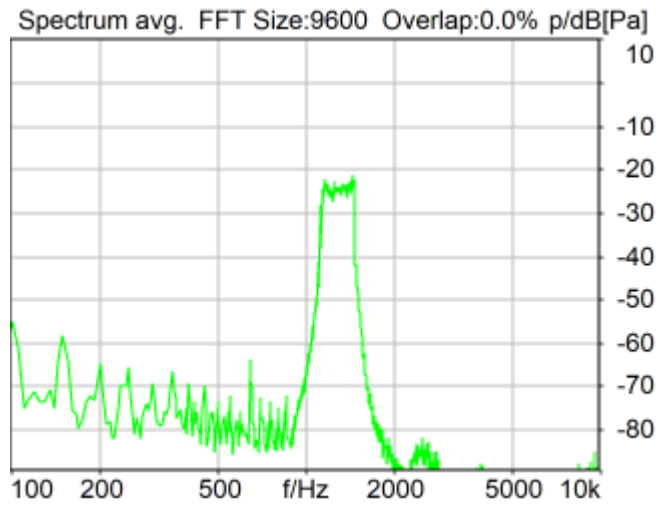
Distortion (Noise) RCV (packed): 23.35 dB (6.80%) Ok

Ok

3/12/2024 3:06 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 2N



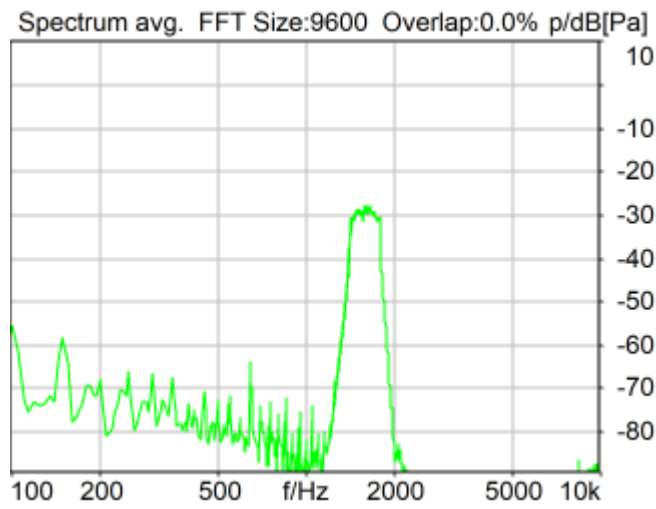
Distortion (Noise) RCV (packed): 23.12 dB (6.98%) Ok

Ok

3/12/2024 3:12 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 2N



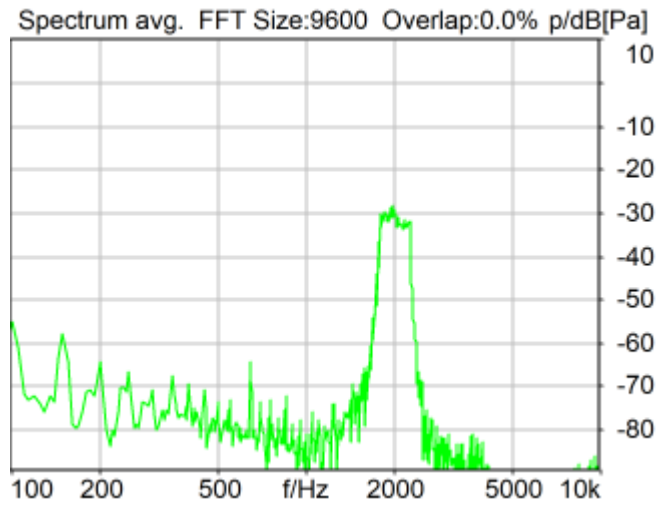
Distortion (Noise) RCV (packed): 27.02 dB (4.46%) Ok

Ok

3/12/2024 3:07 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 2N



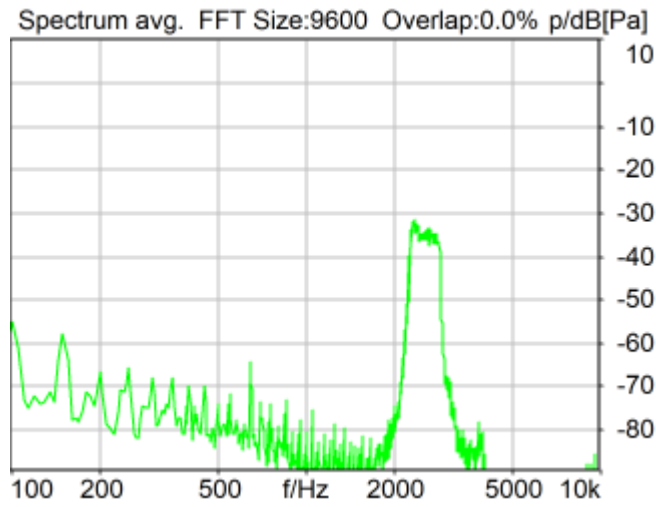
Distortion (Noise) RCV (packed): 24.57 dB (5.91%) Ok

Ok

3/12/2024 3:07 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 2N



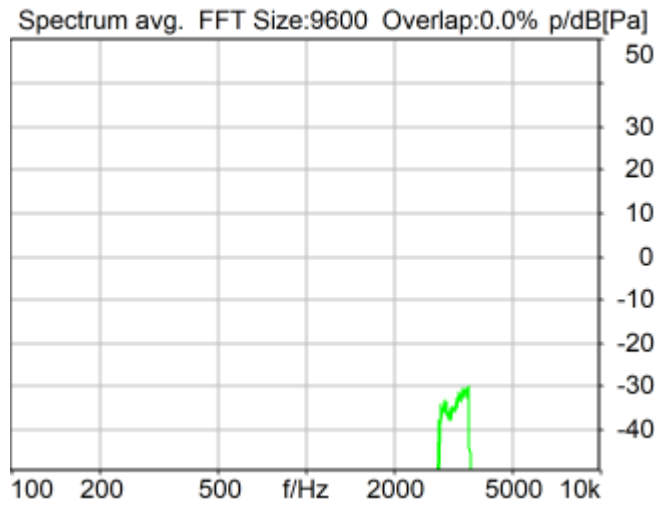
Distortion (Noise) RCV (packed): 26.40 dB (4.78%) Ok

Ok

3/12/2024 3:08 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 2N



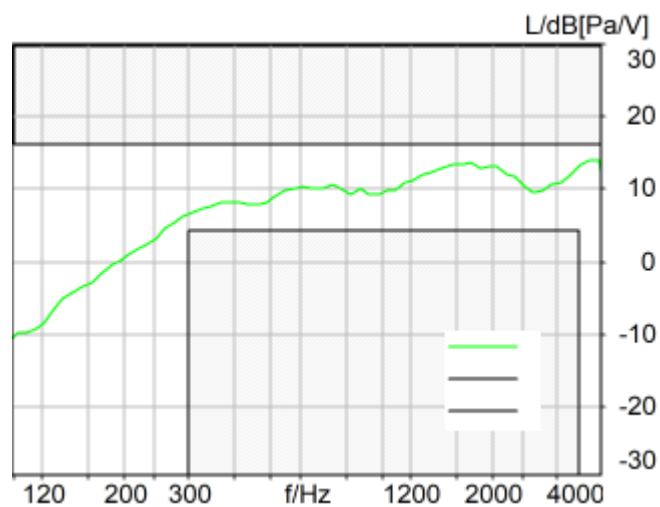
Distortion (Noise) RCV (packed): 28.48 dB (3.77%) Ok

Ok

3/12/2024 3:08 AM ACQUA 5.1.200

5.3 Frequency Response 2N FF HANB

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



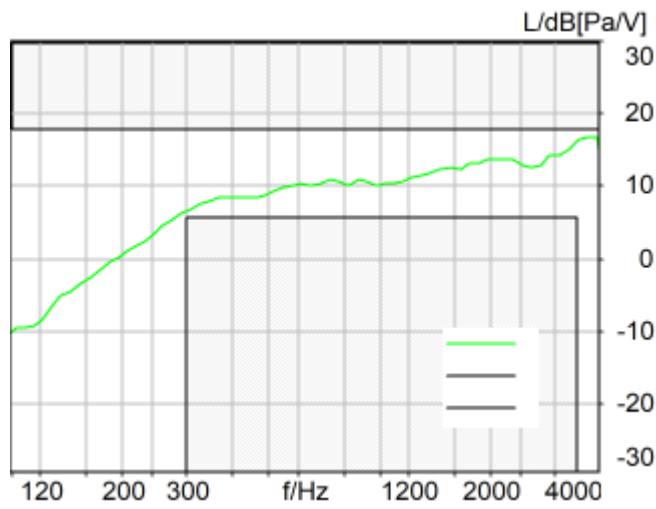
Absolute minimal distance
2.37 dB at 3657.5 Hz Ok

Ok

3/12/2024 3:09 AM ACQUA 5.1.200

5.3 Frequency Response 2N DF HANB

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



Absolute minimal distance
1.03 dB at 3657.5 Hz Ok

Ok

3/12/2024 3:09 AM ACQUA 5.1.200