

TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251031_B66_config0_NB
Bandwidth	Narrowband
Test Date:	2025-10-31

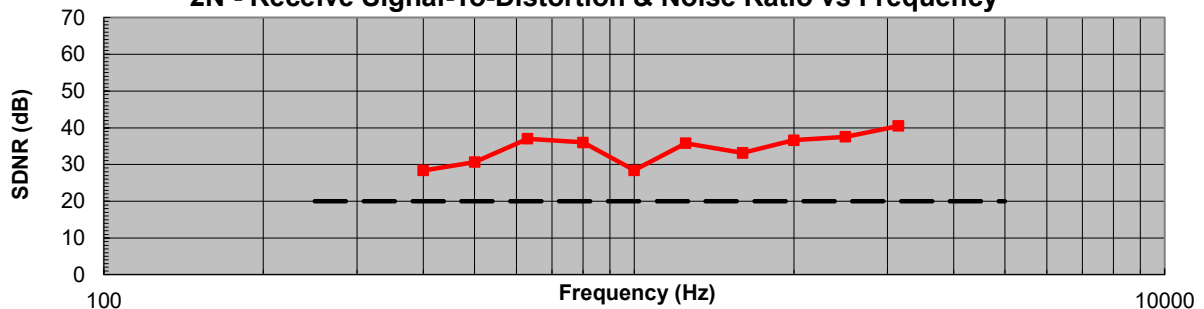
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.39 dB	info only		
	Recv conversational gain 2N	17.39 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.38 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

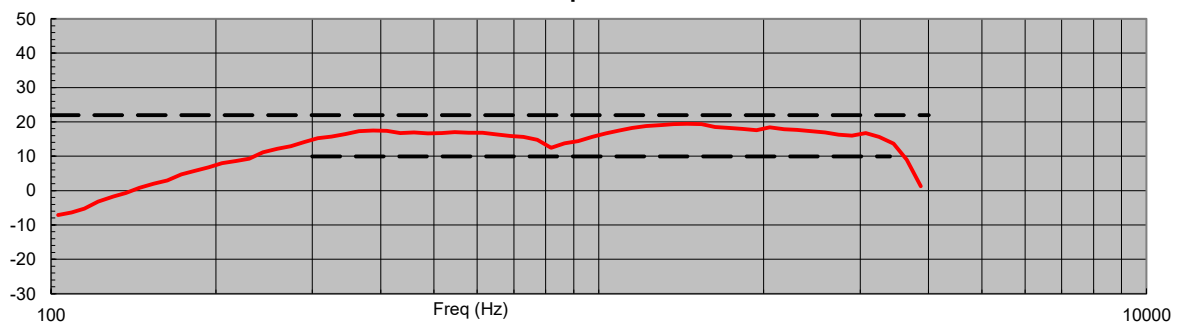
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



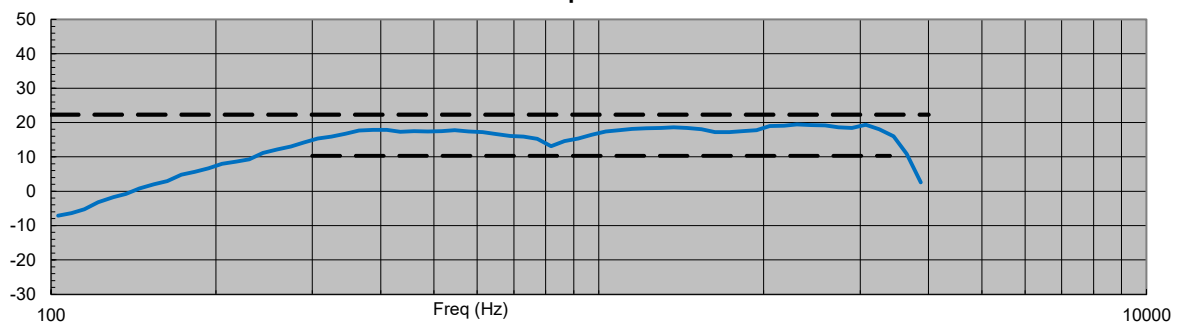
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.5 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.86 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

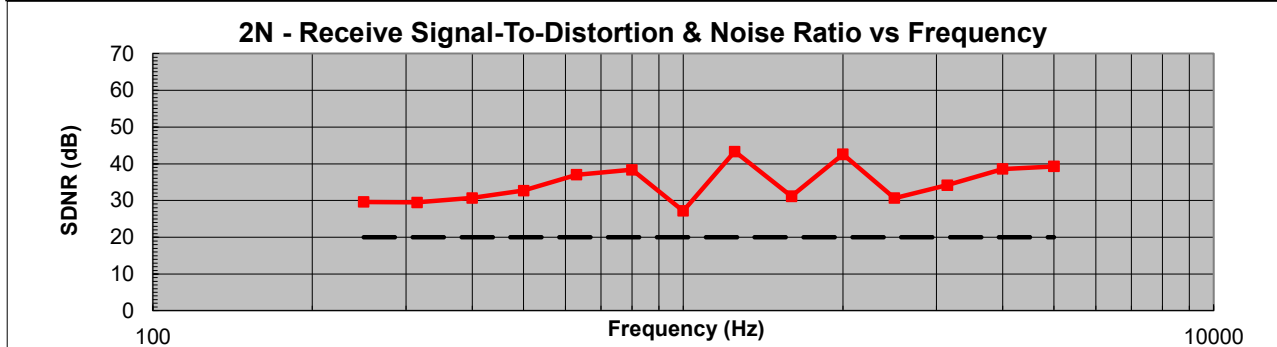
Device Under Test:	20251031_B66_config1_WB
Bandwidth	Wideband
Test Date:	2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.71 dB	info only		
	Recv conversational gain 2N	16.71 dB	6.00	PASS	

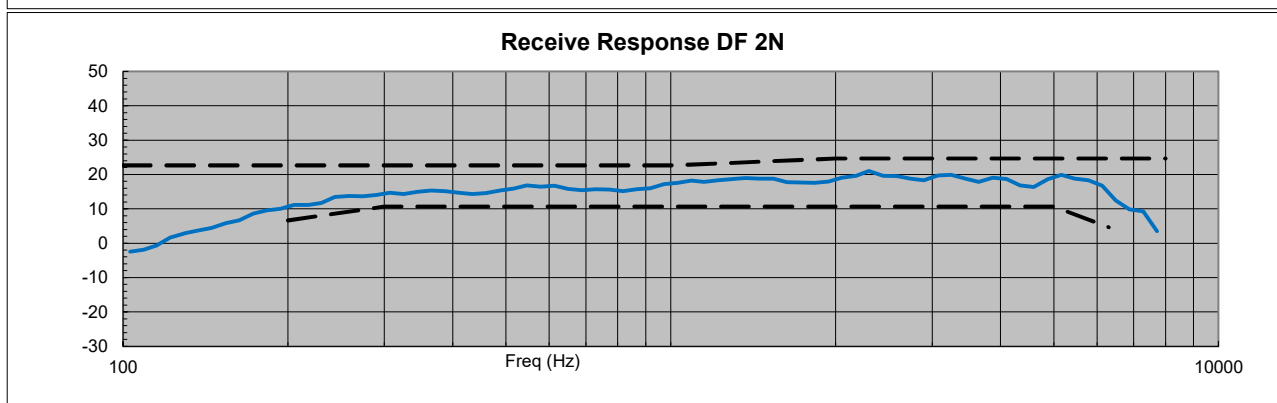
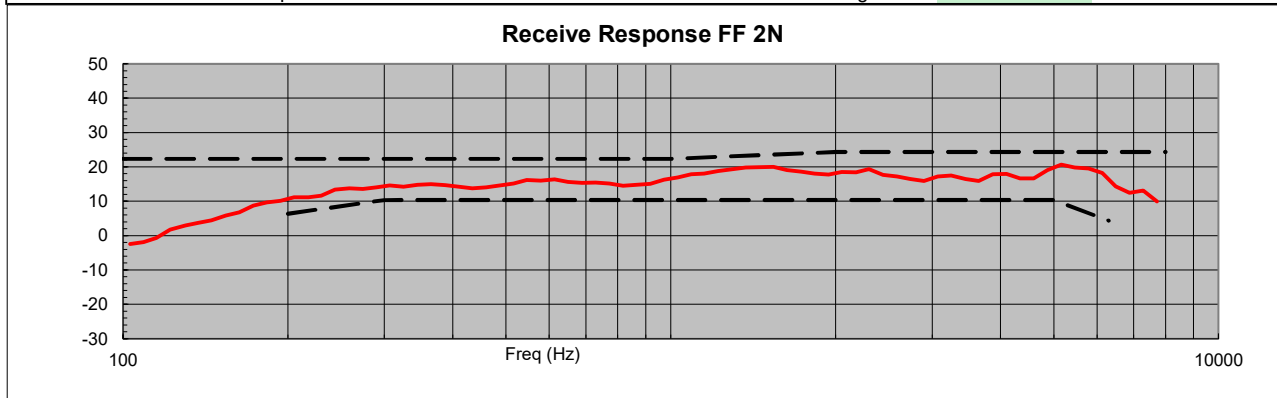
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.17 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	3.44 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.6 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

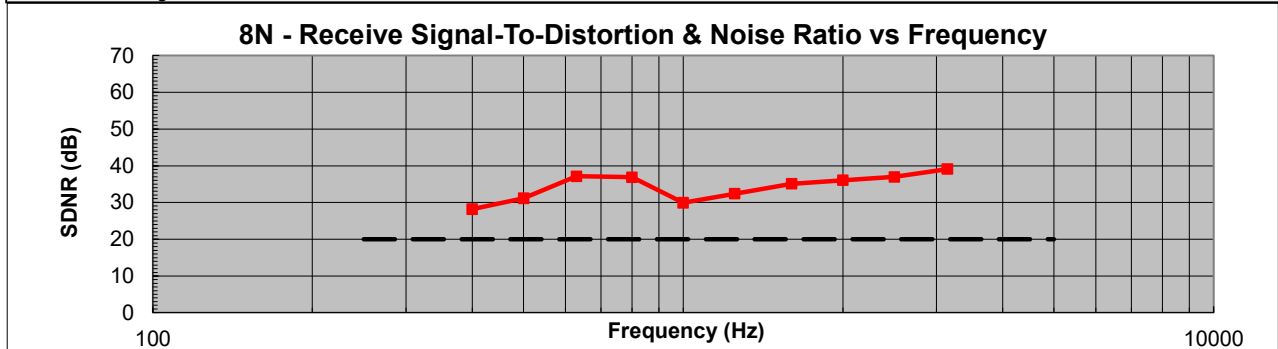
Device Under Test:	20251031_B66_config1_NB_8N
Bandwidth	Narrowband
Test Date:	2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.78 dB	info only		
	Recv conversational gain 8N	19.78 dB	6.00	PASS	

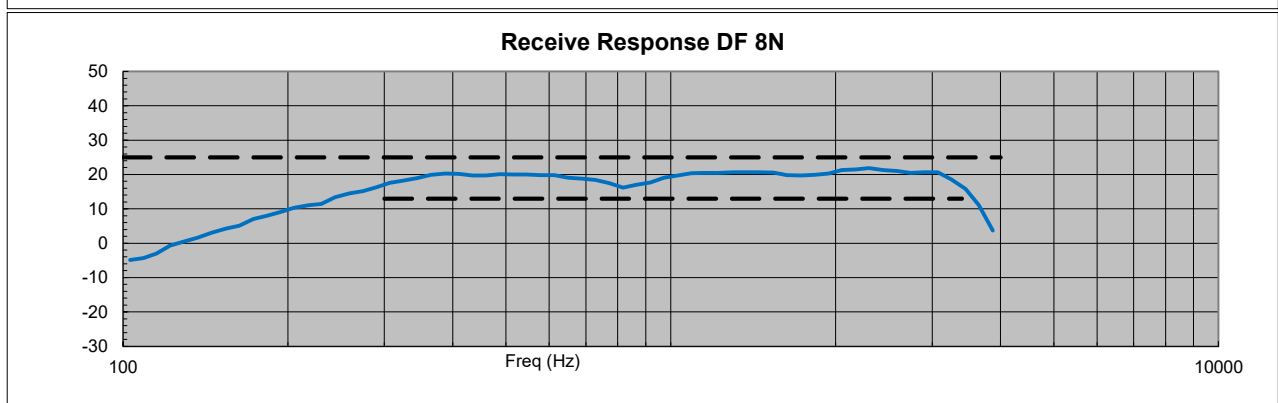
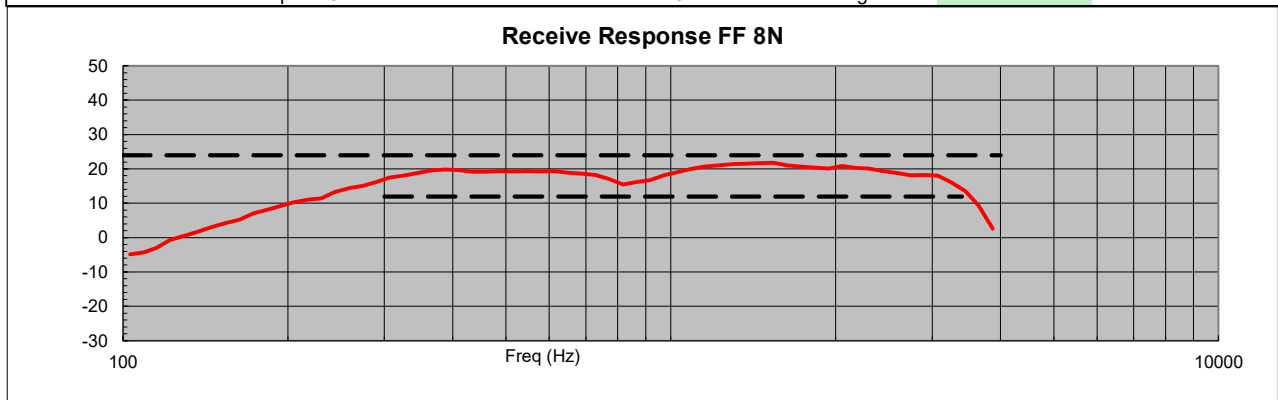
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	8.2 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.14 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.14 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

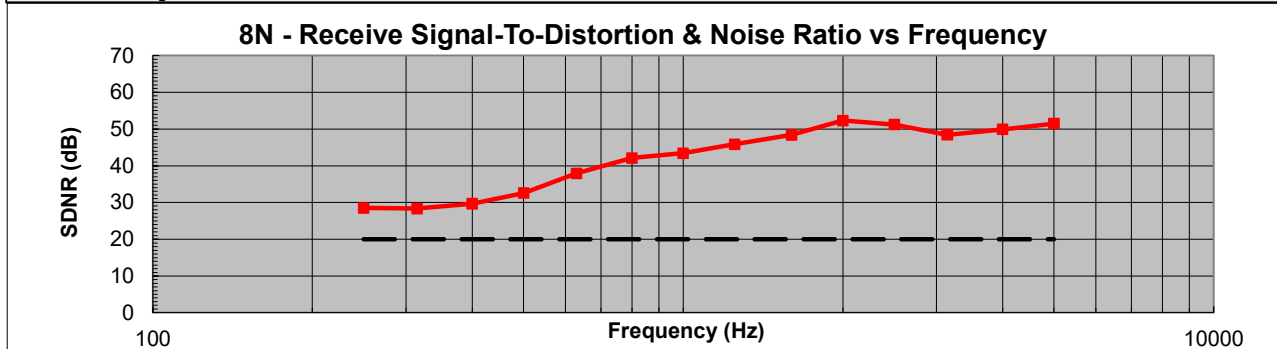
Device Under Test:	20251031_B66_config1_WB_8N
Bandwidth	Wideband
Test Date:	2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.24 dB	info only		
	Recv conversational gain 8N	19.24 dB	6.00	PASS	

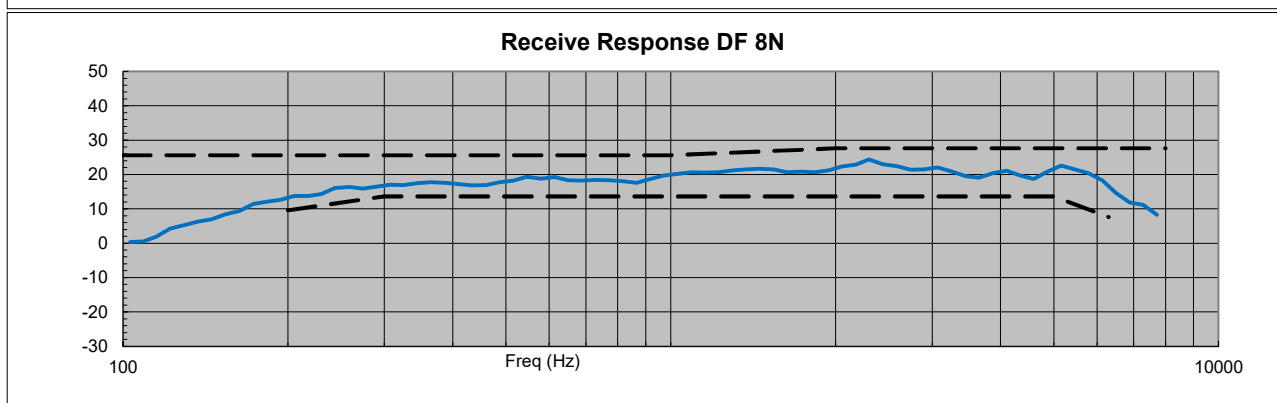
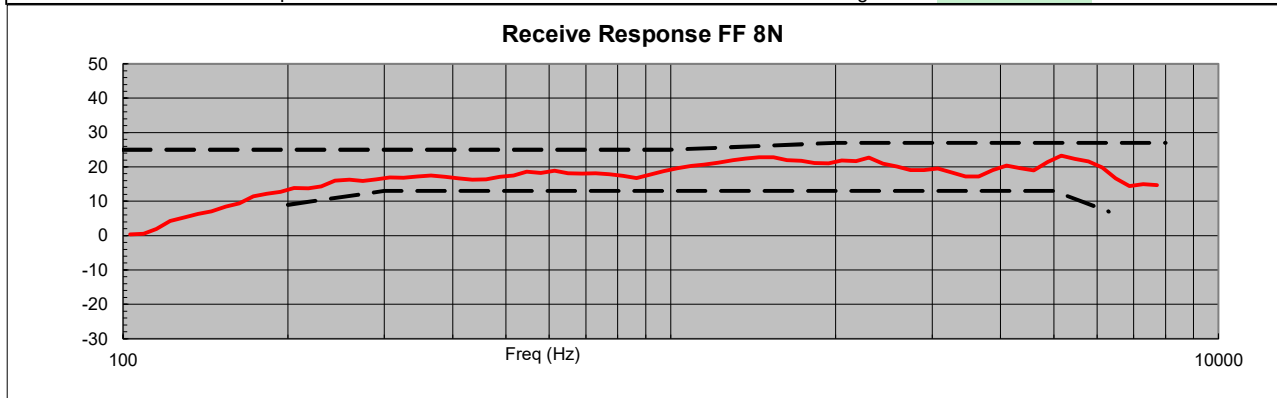
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	8.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.3 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.2 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251030_B41_config0_NB
Bandwidth	Narrowband
Test Date:	2025-10-30

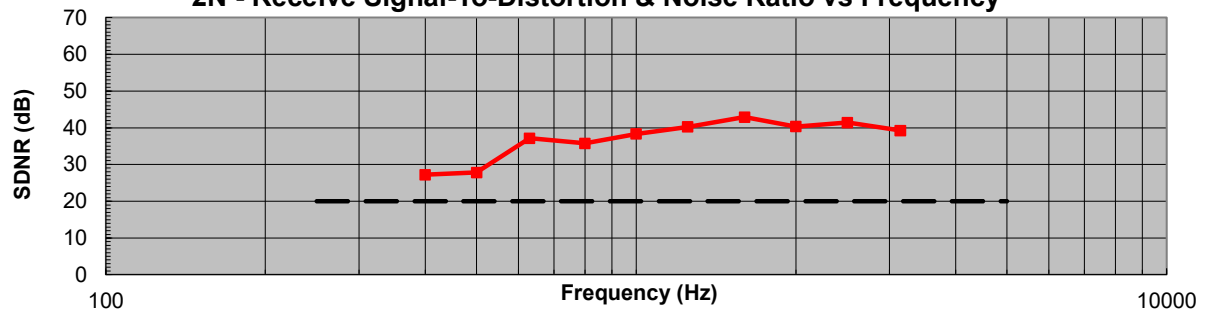
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.33 dB	info only		
	Recv conversational gain 2N	17.33 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.2 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

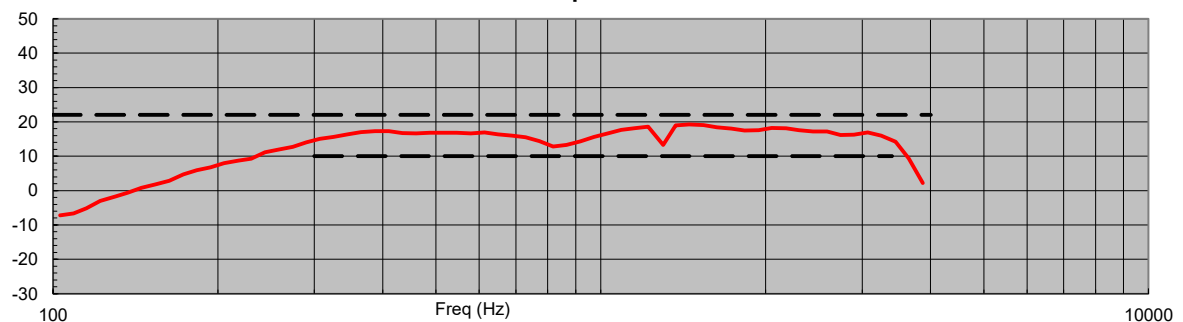
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



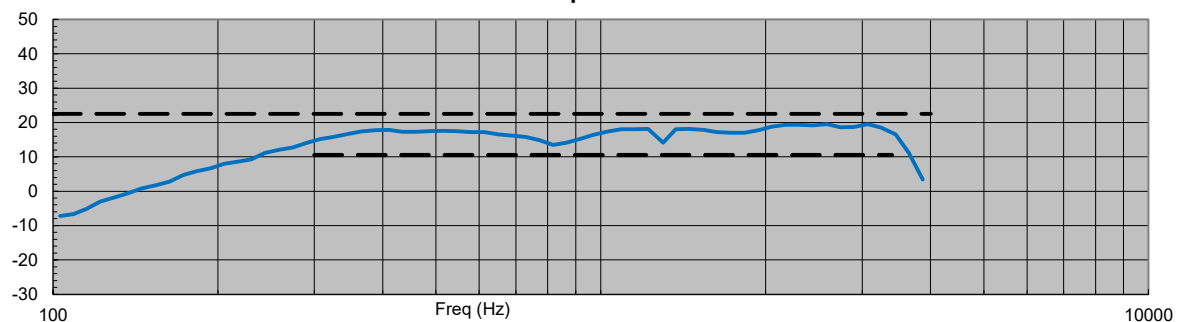
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.8 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.98 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

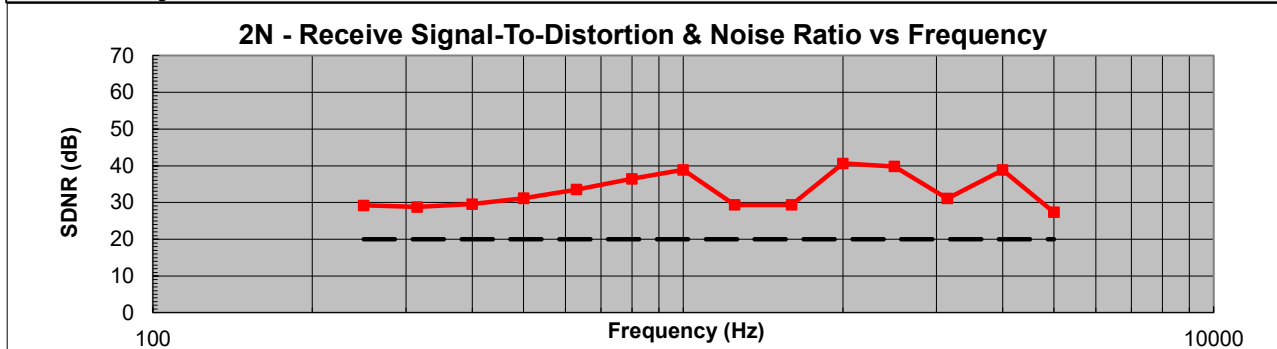
Device Under Test:	20251030_B41_config0_WB_RB1_0
Bandwidth	Wideband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.56 dB	info only		
	Recv conversational gain 2N	16.56 dB	6.00	PASS	

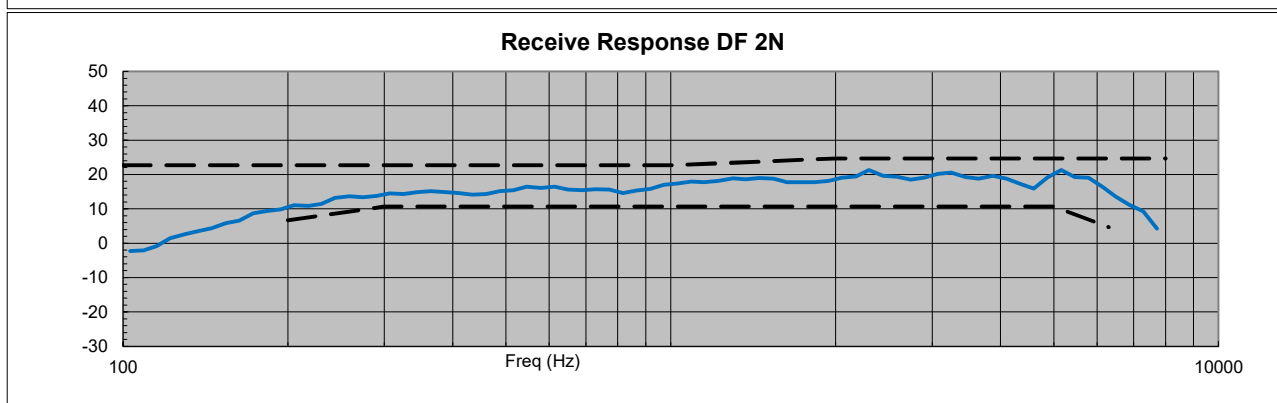
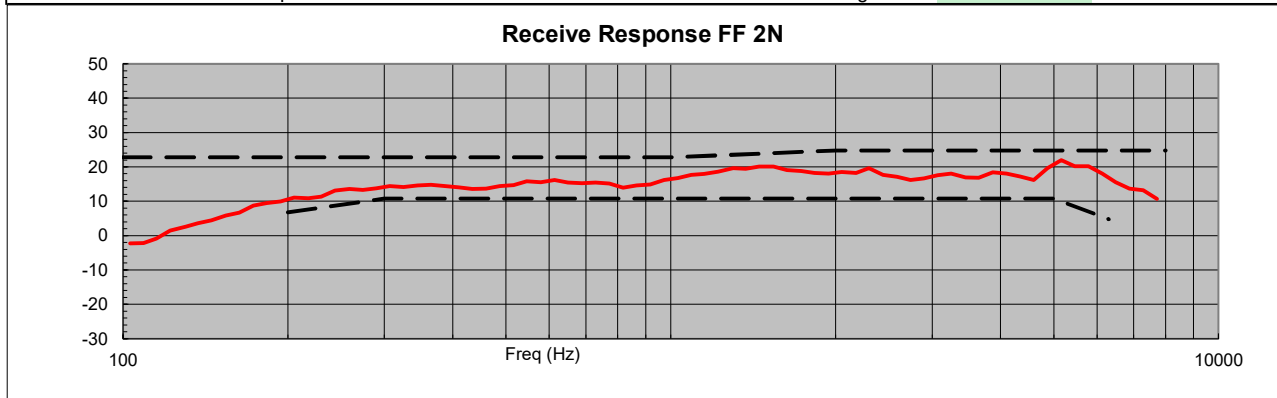
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.33 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.79 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

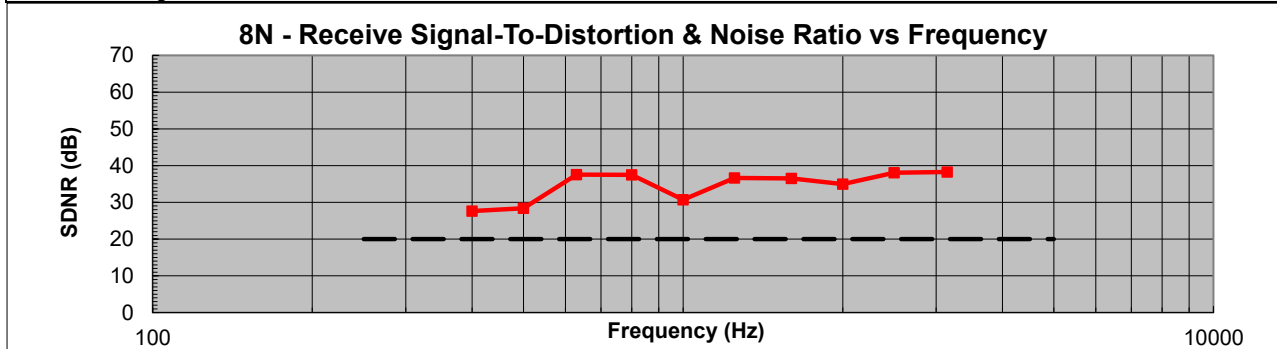
Device Under Test:	20251030_B41_config0_NB_RB1_0_QPSK_20M_8N
Bandwidth	Narrowband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.92 dB	info only		
	Recv conversational gain 8N	19.92 dB	6.00	PASS	

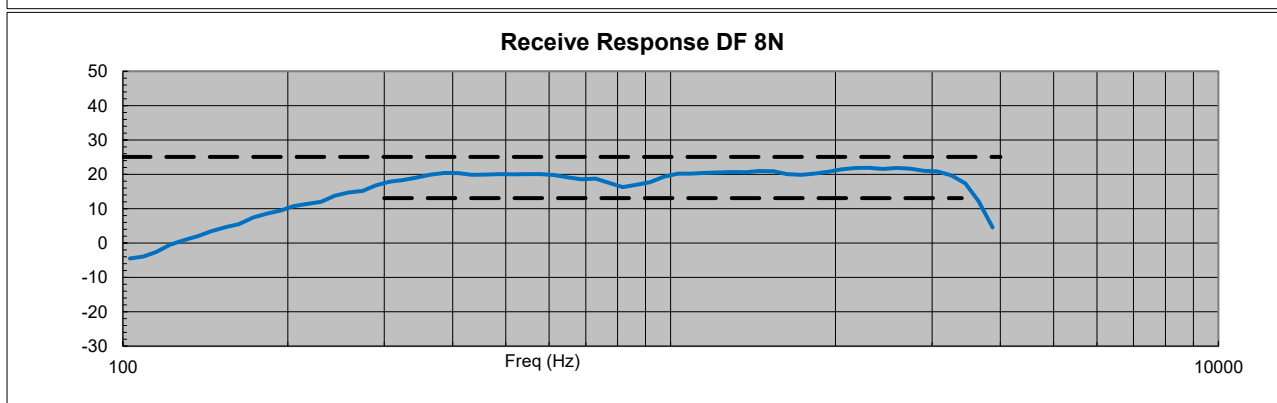
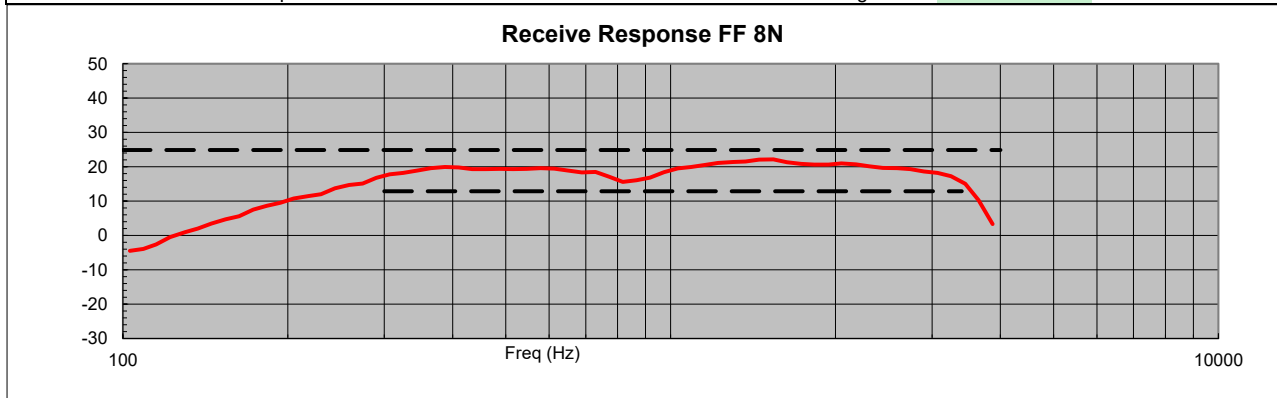
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.6 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.72 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.18 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

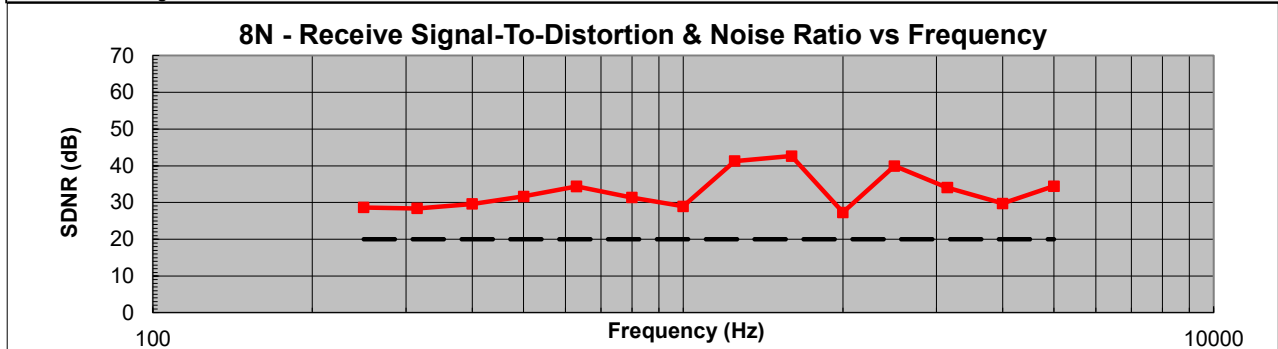
Device Under Test:	20251030_B41_config0_WB_RB1_0_QPSK_20M_8N
Bandwidth	Wideband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.42 dB	info only		
	Recv conversational gain 8N	19.42 dB	6.00	PASS	

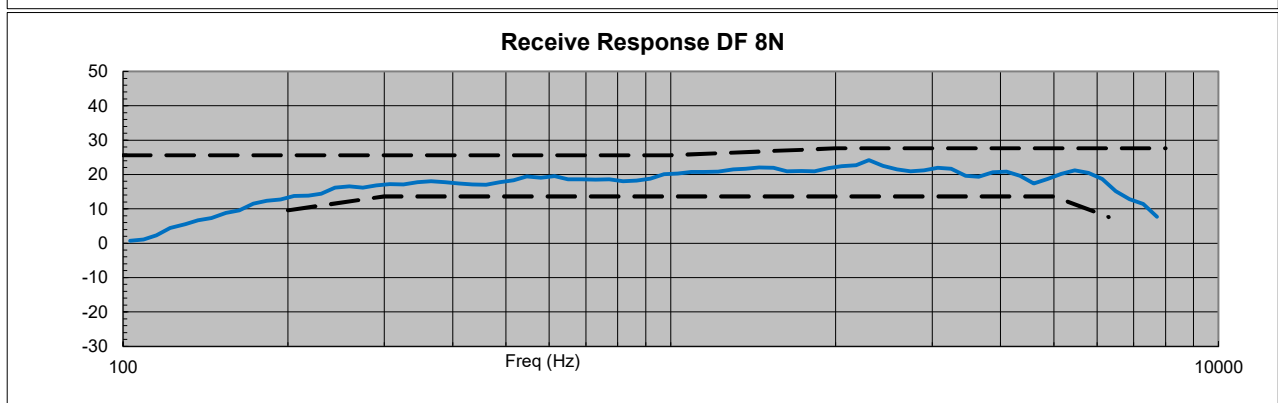
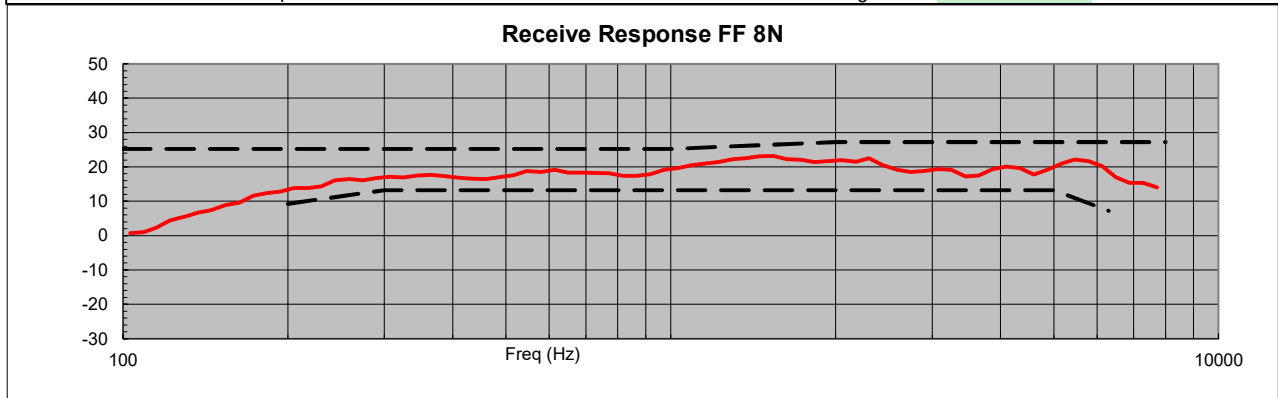
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.24 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.4 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251030_n66_config0_NB
Bandwidth	Narrowband
Test Date:	2025-10-30

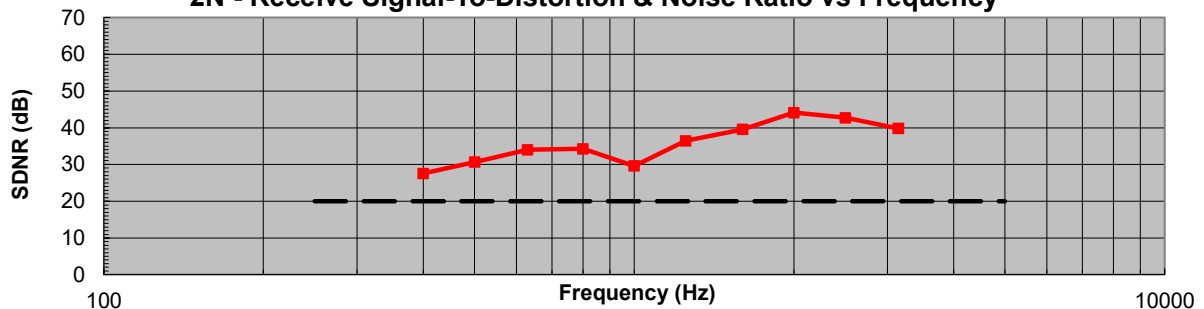
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.28 dB	info only		
	Recv conversational gain 2N	17.28 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.56 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

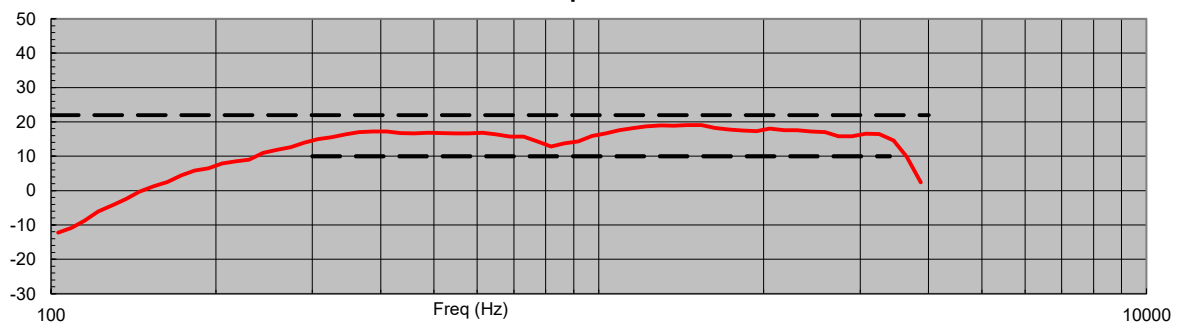
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



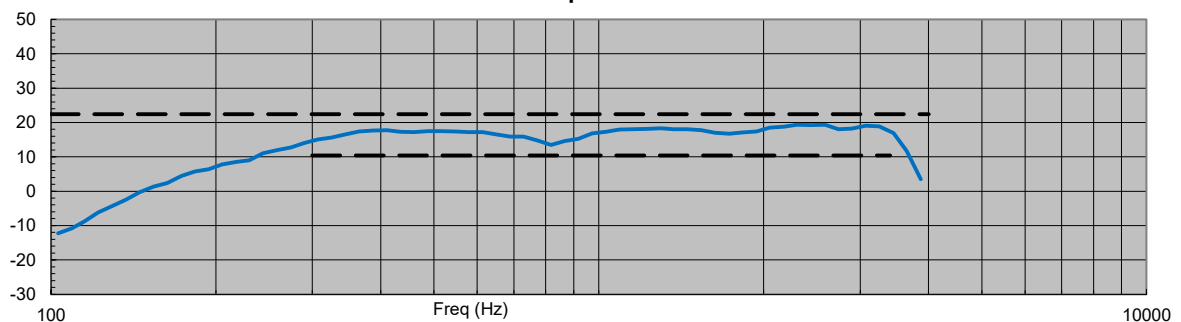
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.89 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.11 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

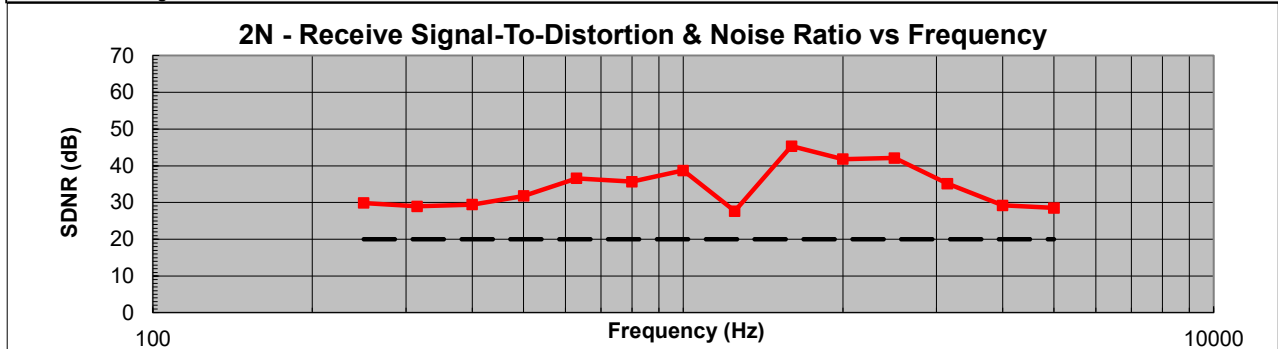
Device Under Test:	20251030_n66_config1_dfts_RB1_1
Bandwidth	Wideband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.51 dB	info only		
	Recv conversational gain 2N	16.51 dB	6.00	PASS	

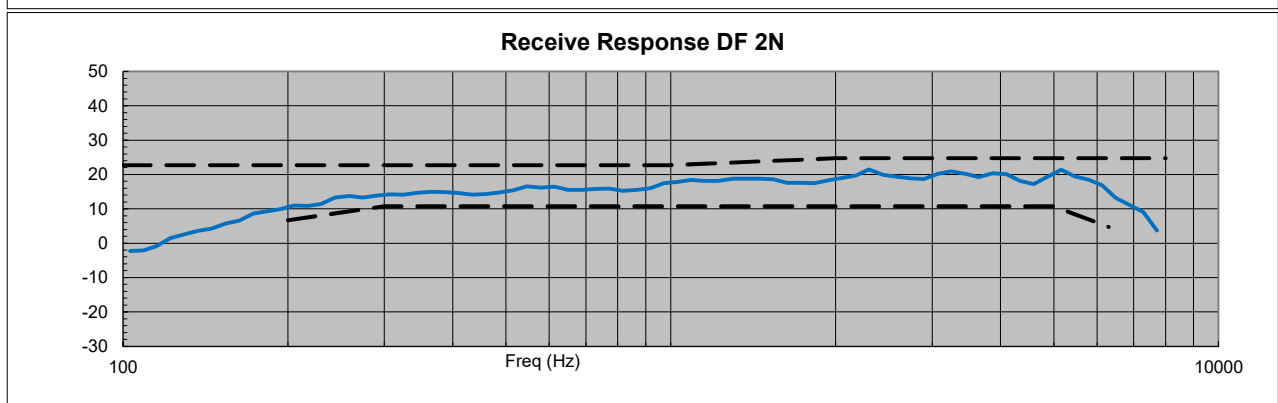
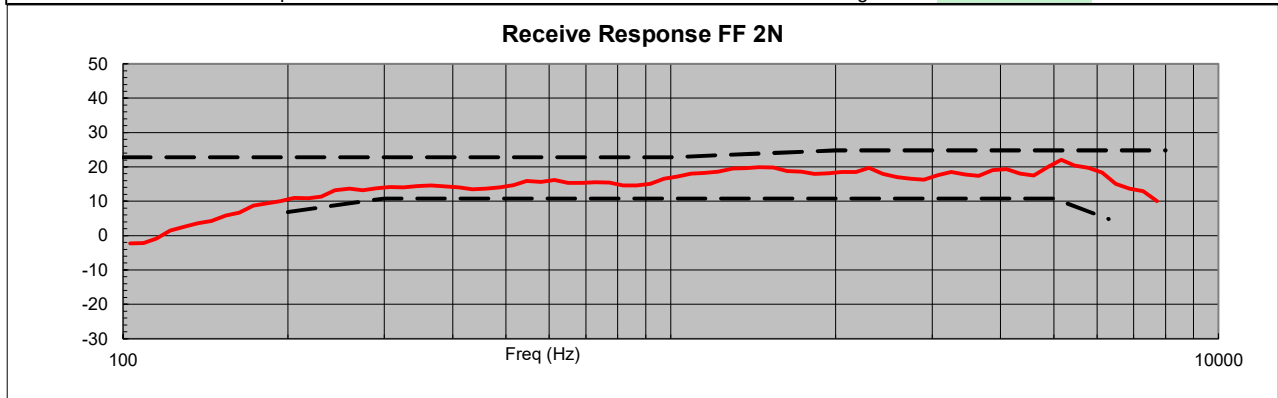
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.64 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.89 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.5 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

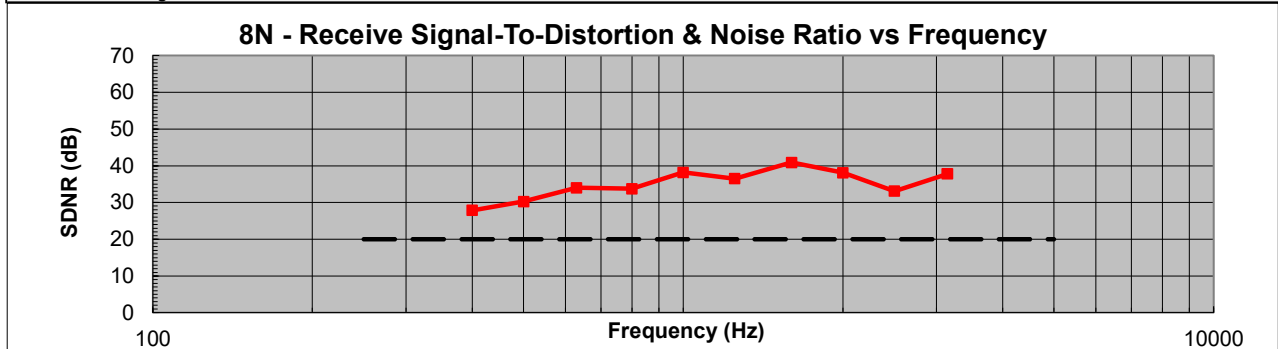
Device Under Test:	20251030_n66_config1_NB_8N
Bandwidth	Narrowband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.03 dB	info only		
	Recv conversational gain 8N	20.03 dB	6.00	PASS	

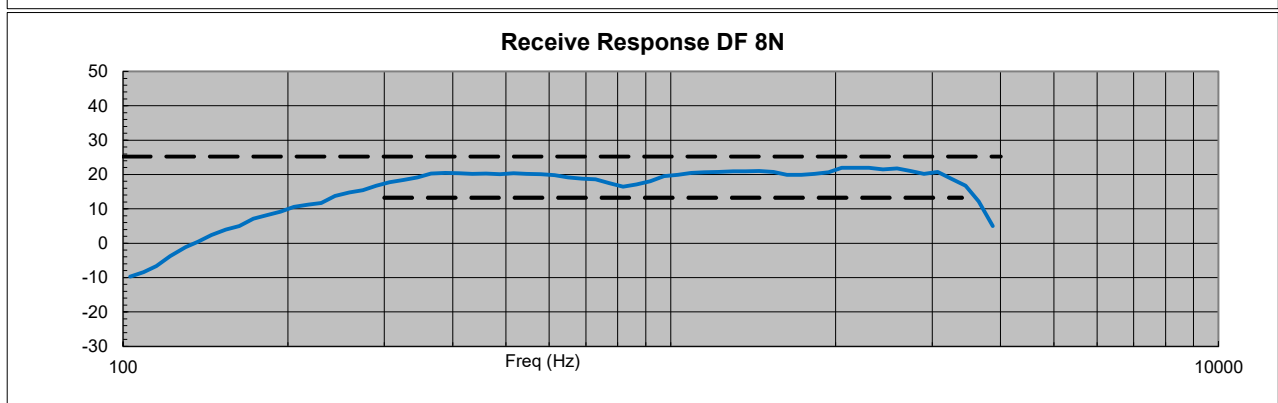
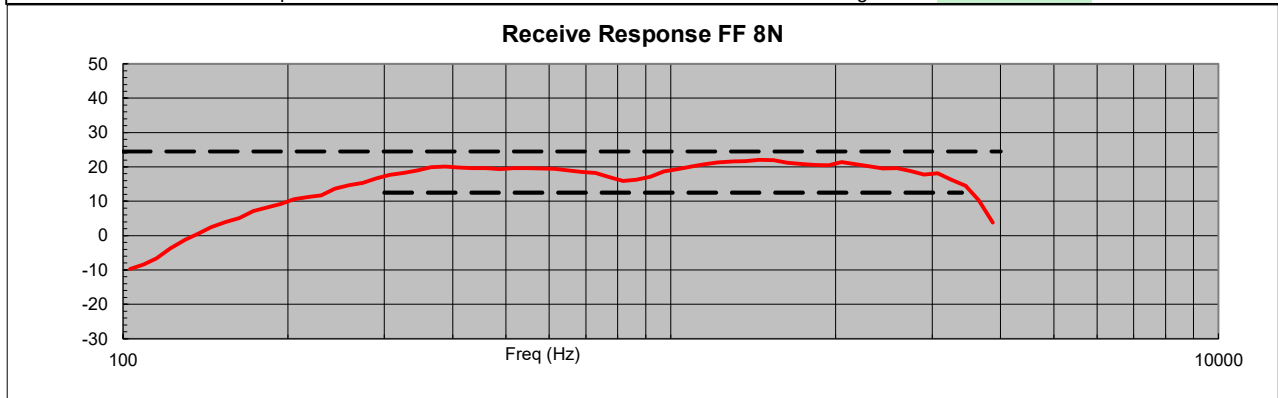
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.9 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.41 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.29 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

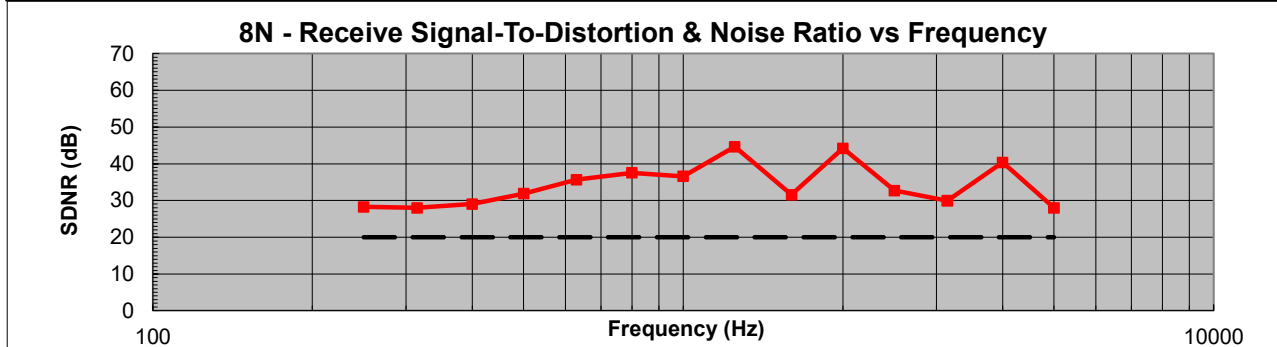
Device Under Test:	20251030_n66_config1_WB_8N
Bandwidth	Wideband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.29 dB	info only		
	Recv conversational gain 8N	19.29 dB	6.00	PASS	

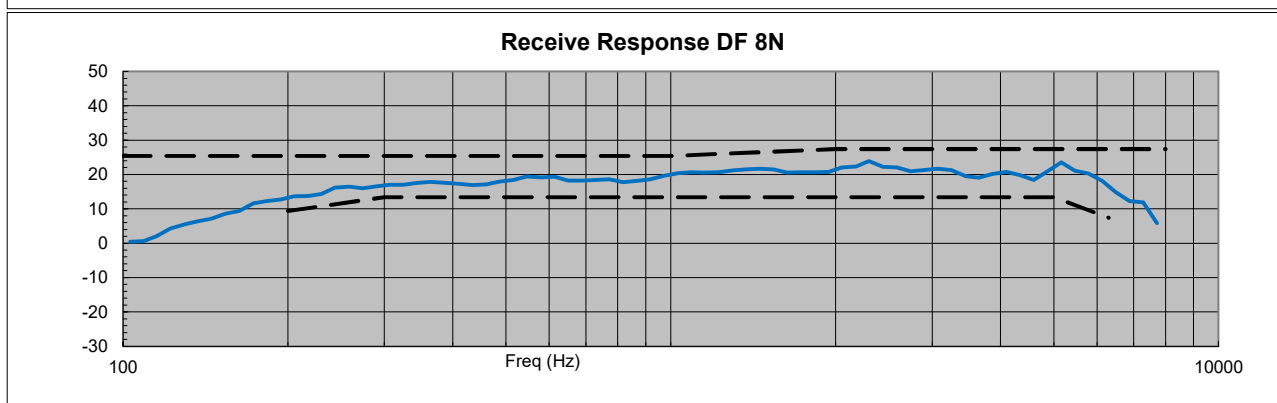
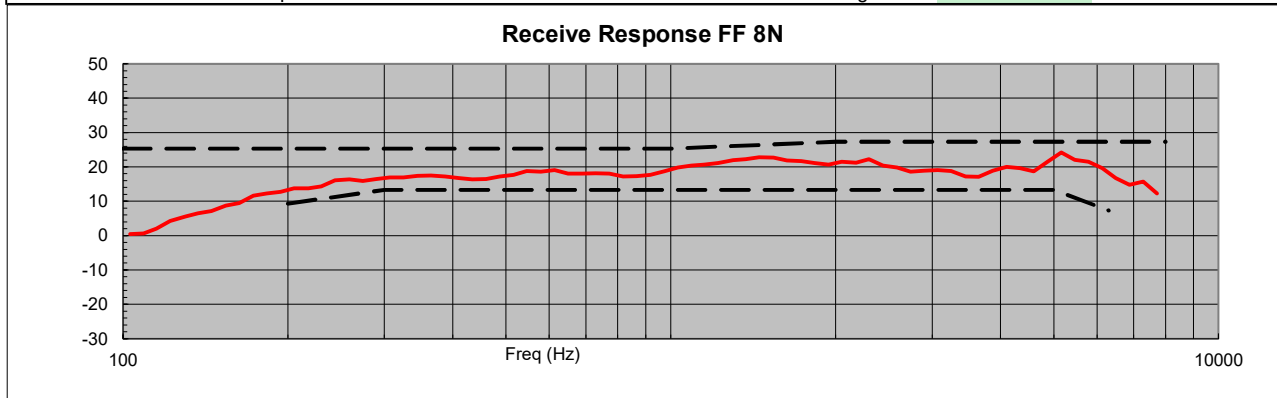
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	8 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.06 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.5 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

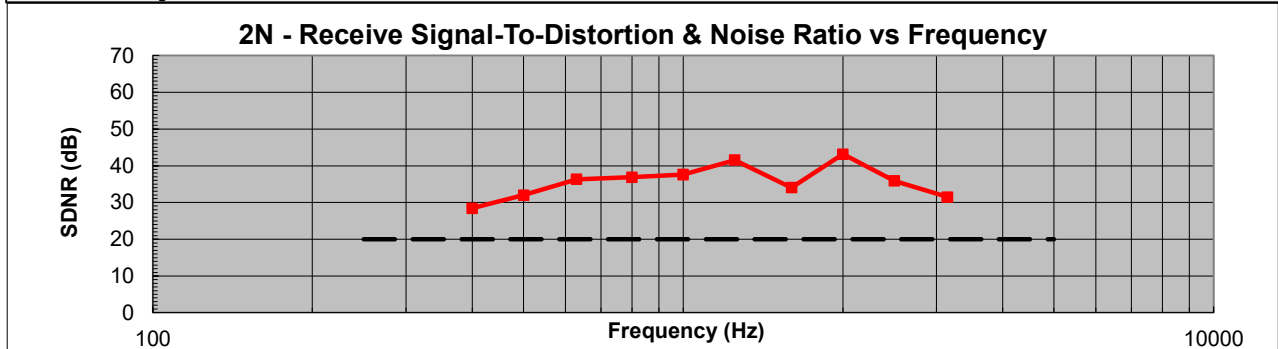
Device Under Test:	20251028_n41_config0_NB
Bandwidth	Narrowband
Test Date:	2025-10-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.46 dB	info only		
	Recv conversational gain 2N	17.46 dB	6.00	PASS	

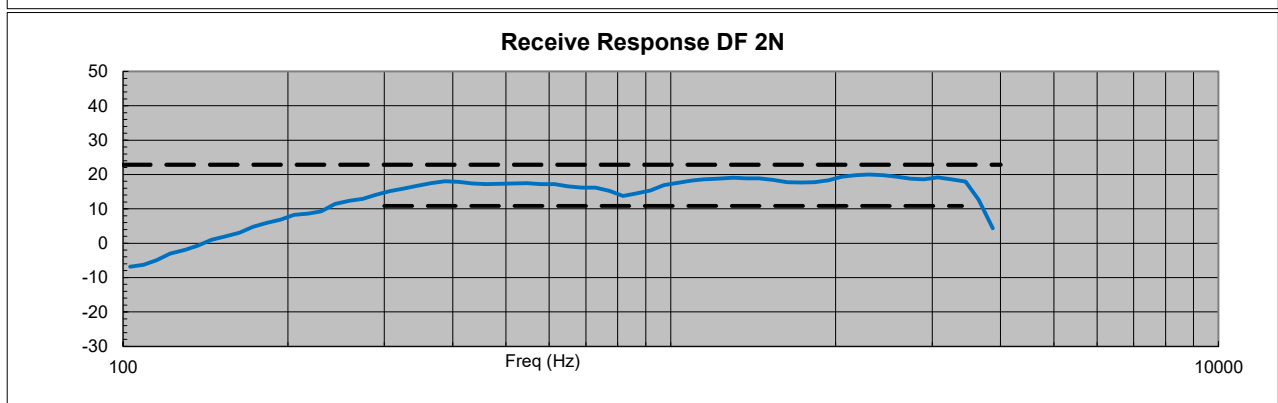
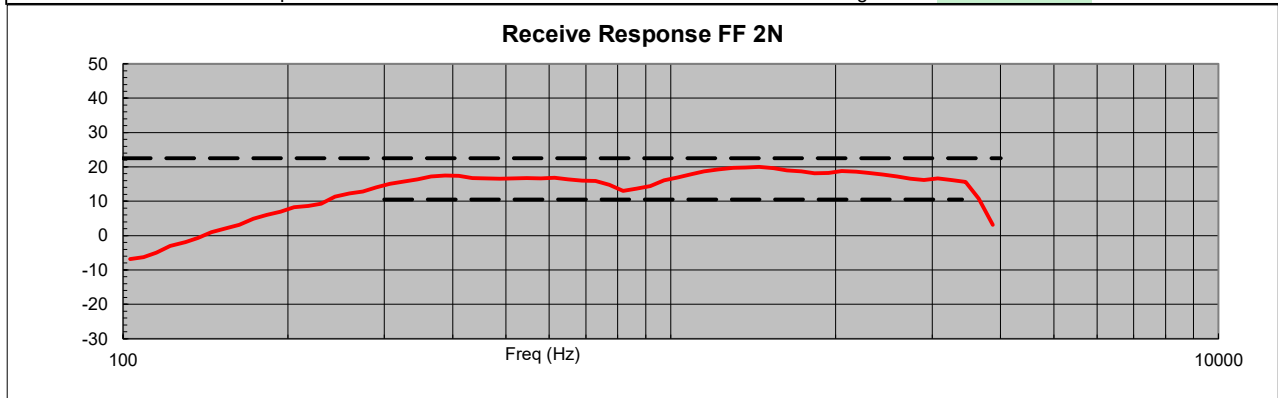
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.46 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.54 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.88 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

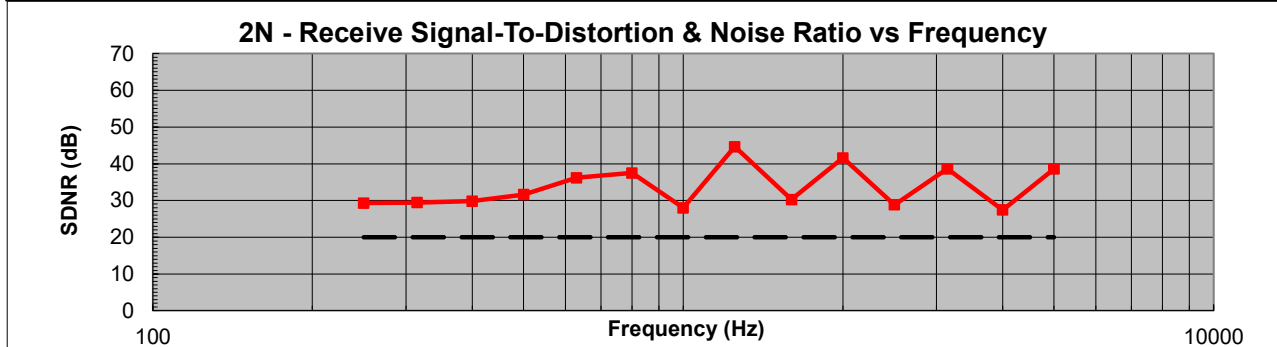
Device Under Test:	20251028_n41_config0_WB
Bandwidth	Wideband
Test Date:	2025-10-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.7 dB	info only		
	Recv conversational gain 2N	16.7 dB	6.00	PASS	

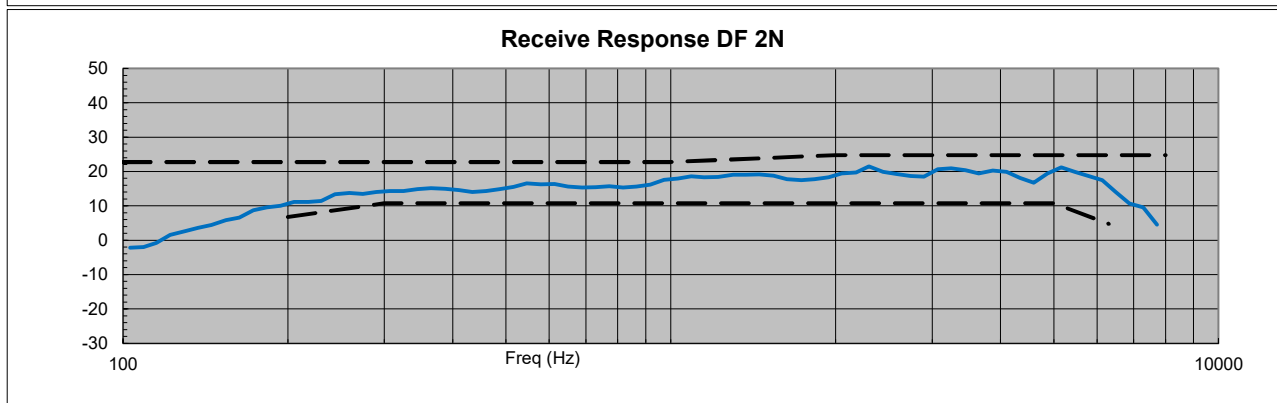
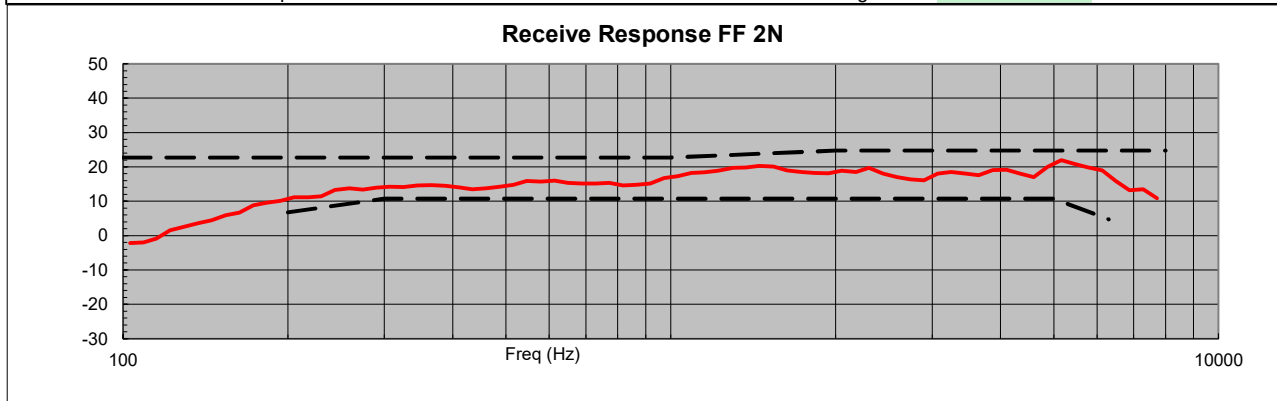
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.43 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.76 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

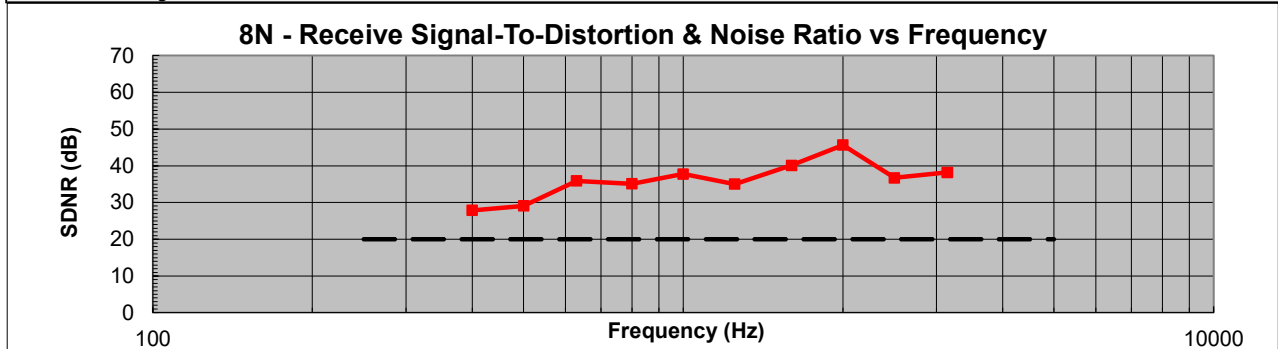
Device Under Test:	20251030_n41_8N_NB
Bandwidth	Narrowband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.1 dB	info only		
	Recv conversational gain 8N	20.1 dB	6.00	PASS	

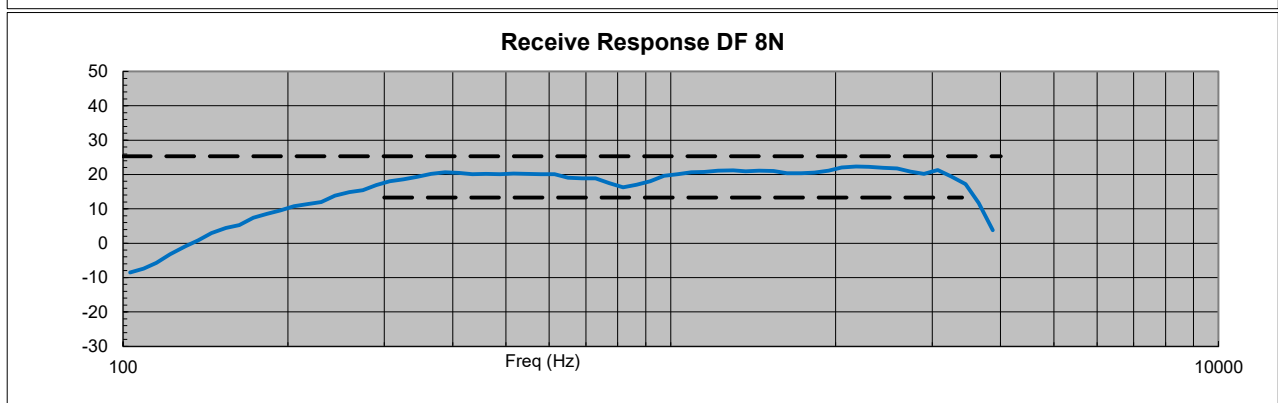
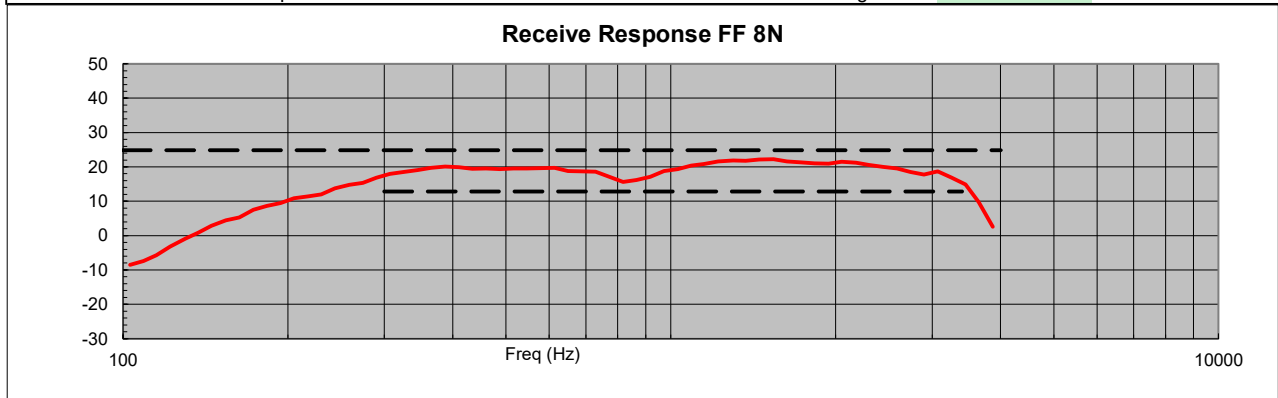
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.8 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.57 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.97 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

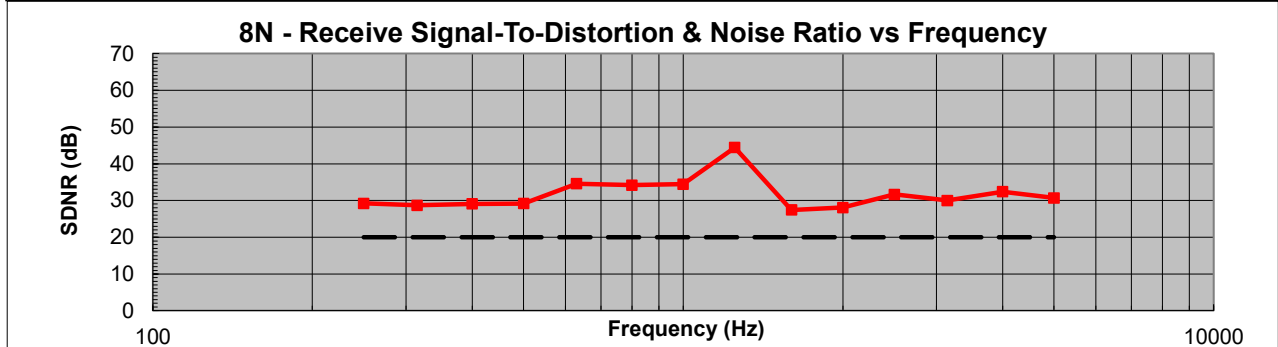
Device Under Test:	20251030_n41_8N_WB
Bandwidth	Wideband
Test Date:	2025-10-30

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.49 dB	info only		
	Recv conversational gain 8N	19.49 dB	6.00	PASS	

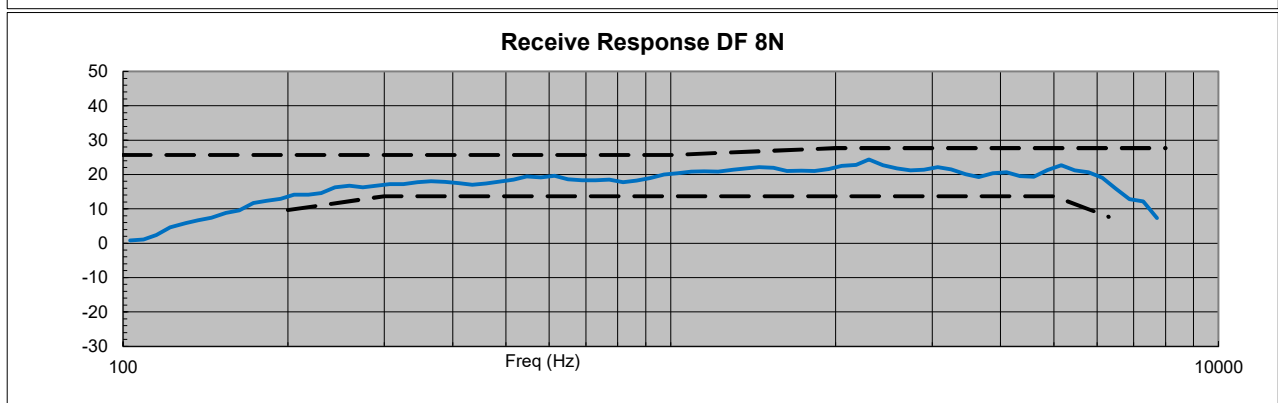
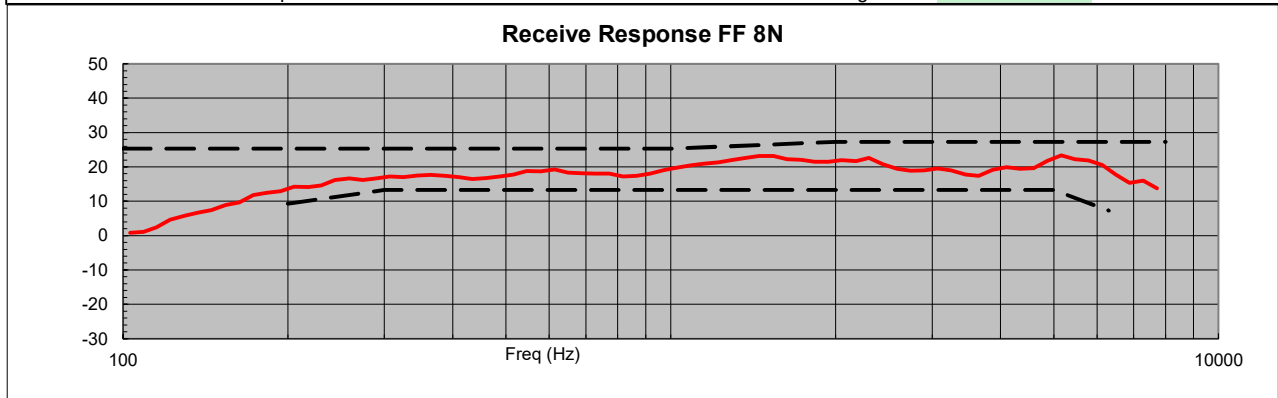
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.4 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.17 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251031_MIMO_NB_11b_1M_ch6
Bandwidth	Narrowband
Test Date:	2025-10-31

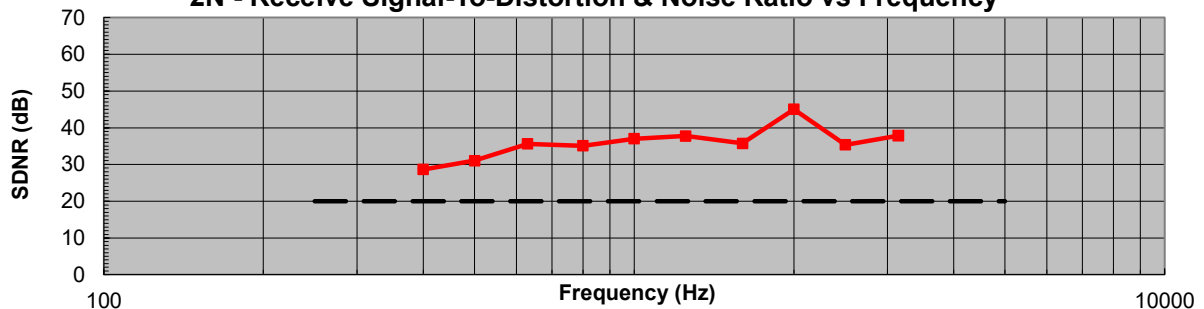
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.32 dB	info only		
	Recv conversational gain 2N	17.32 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.64 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

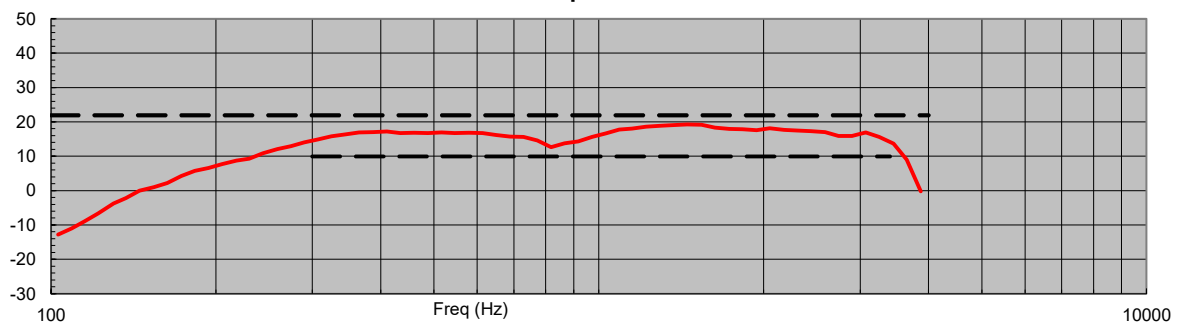
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



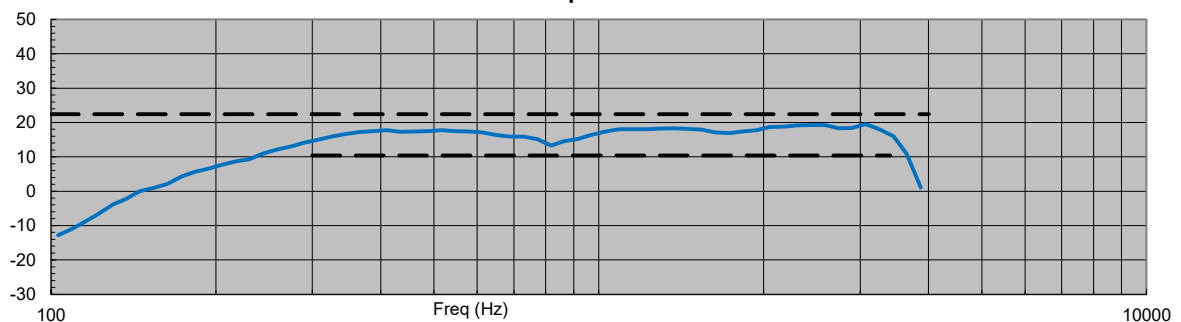
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.7 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.9 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251031_MIMO_WB_11g_6M
Bandwidth	Wideband
Test Date:	2025-10-31

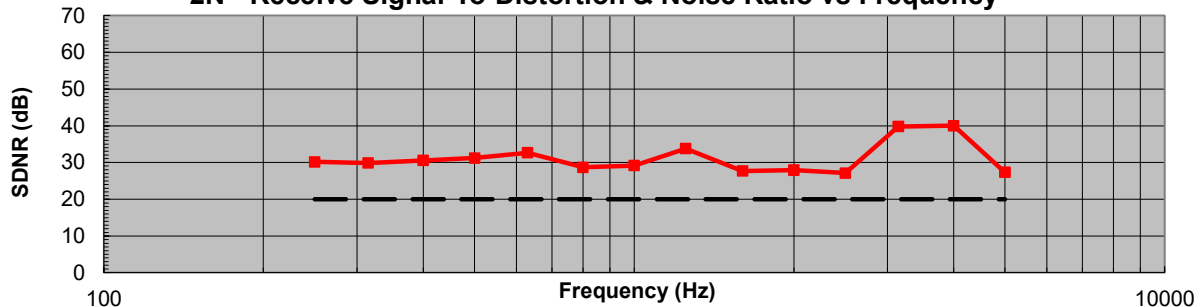
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.56 dB	info only		
	Recv conversational gain 2N	16.56 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.13 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

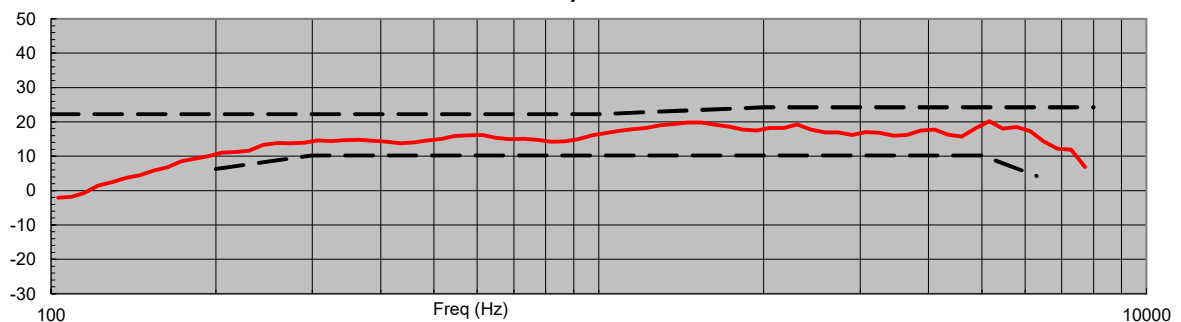
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



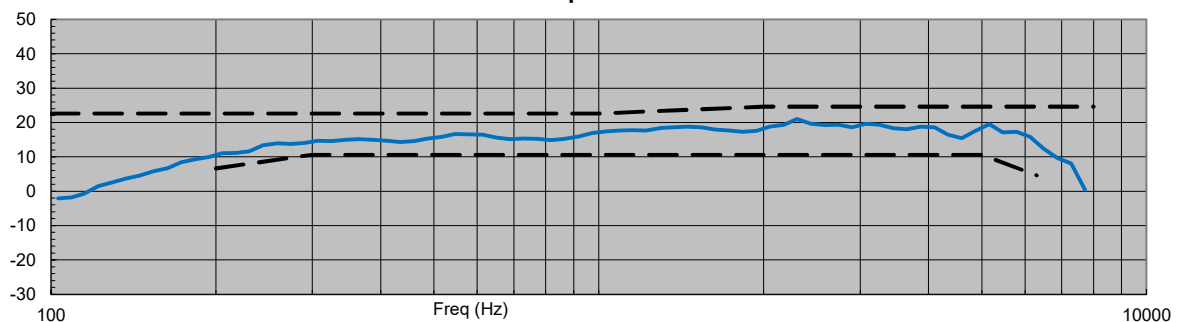
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	3.5 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.6 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 8N

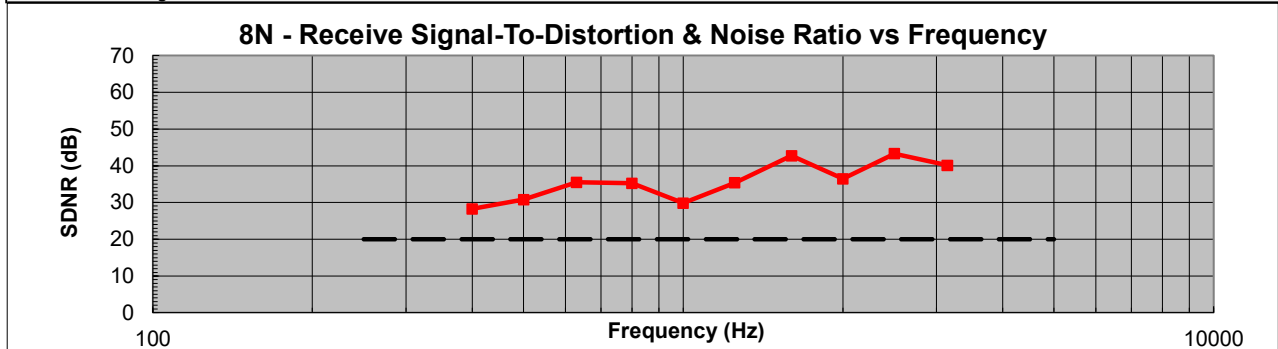
Device Under Test:	20251031_MIMO_NB_11g_6M_ch6_8N
Bandwidth	Narrowband
Test Date:	2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.96 dB	info only		
	Recv conversational gain 8N	19.96 dB	6.00	PASS	

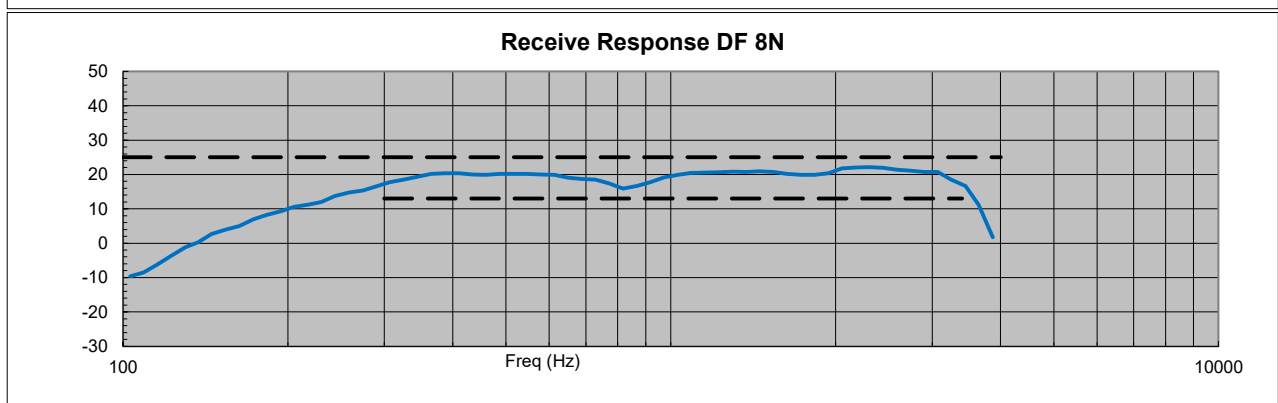
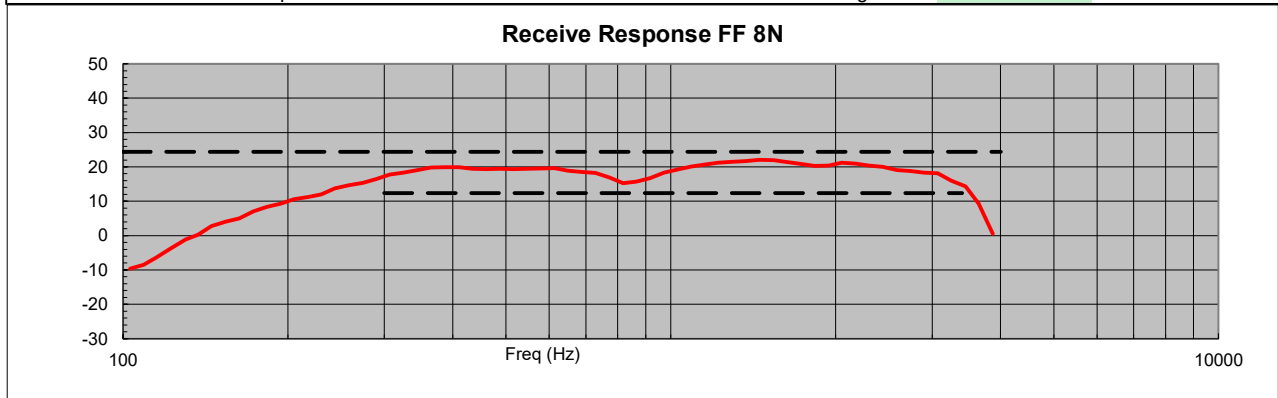
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	8.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.33 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.87 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

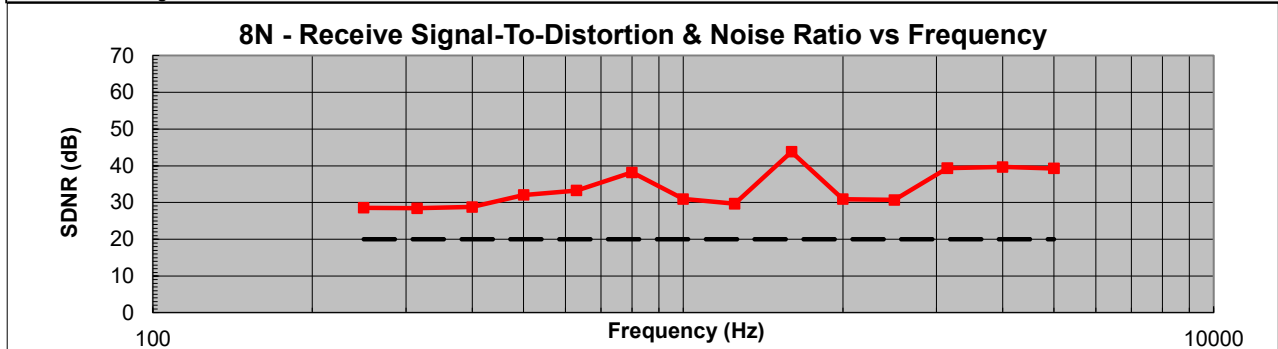
Device Under Test:	20251031_MIMO_WB_11g_6M_ch6_8N
Bandwidth	Wideband
Test Date:	2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.21 dB	info only		
	Recv conversational gain 8N	19.21 dB	6.00	PASS	

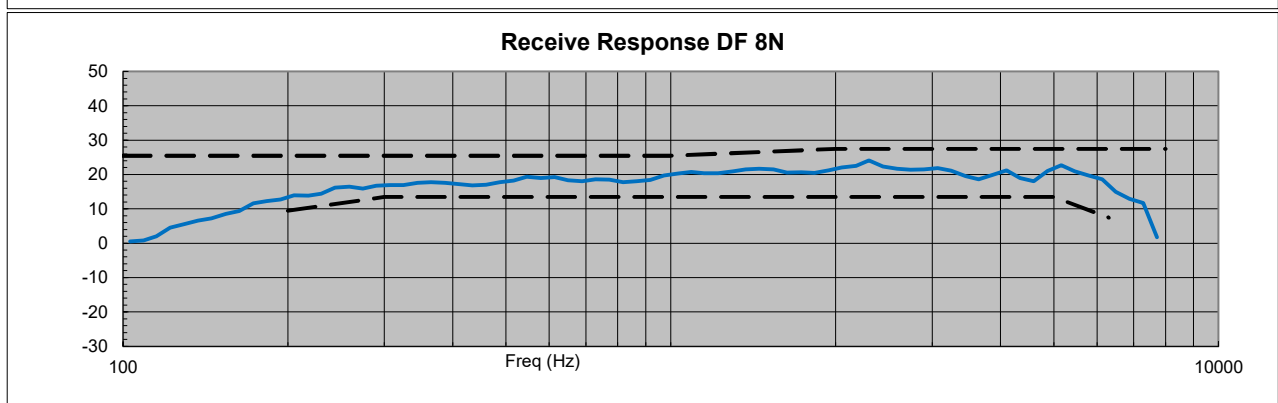
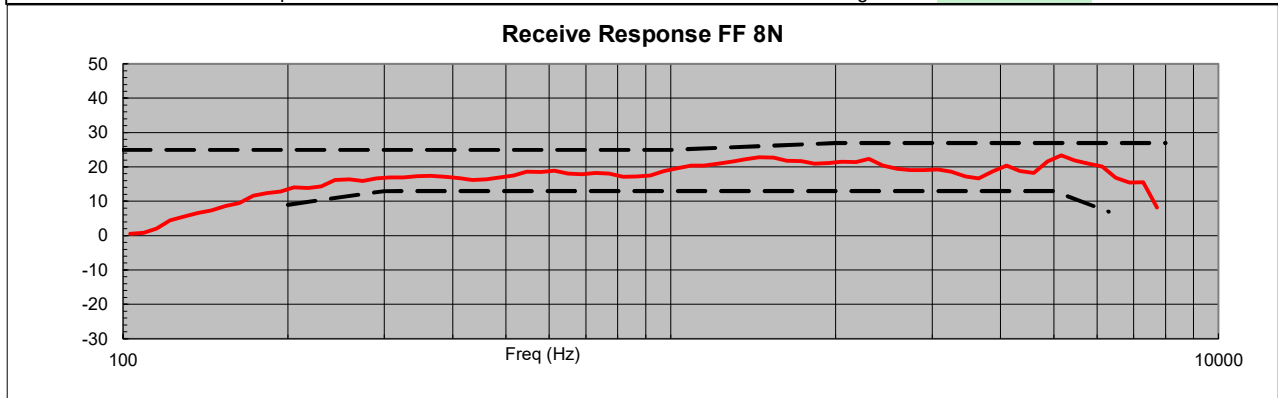
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	8.5 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.28 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251031_ch36_MIMO_NB
Bandwidth	Narrowband
Test Date:	2025-10-31

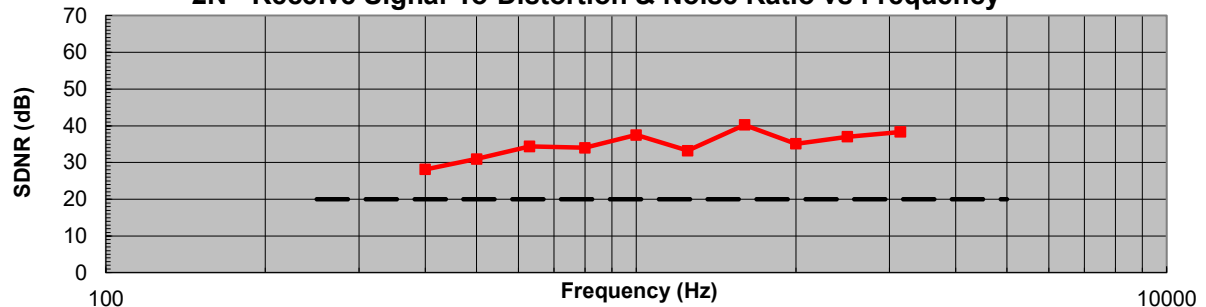
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.22 dB	info only		
	Recv conversational gain 2N	17.22 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.1 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

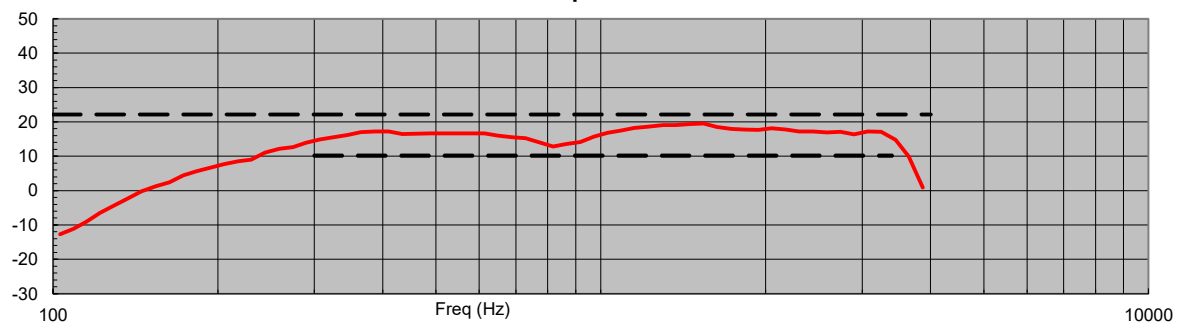
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



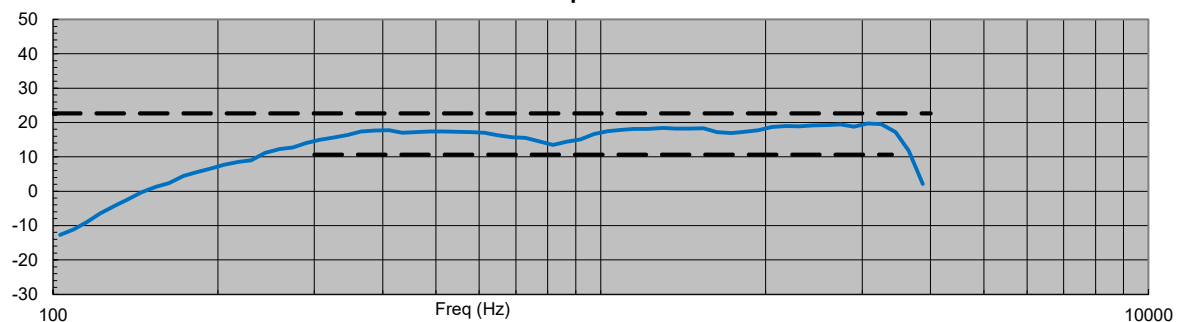
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.68 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.88 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251031_ch36_MIMO_WB
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Bandwidth	Wideband
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Test Date:	2025-10-31
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Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.48 dB	info only		
	Recv conversational gain 2N	16.48 dB	6.00	PASS	

Receive Distortion and Noise Performance

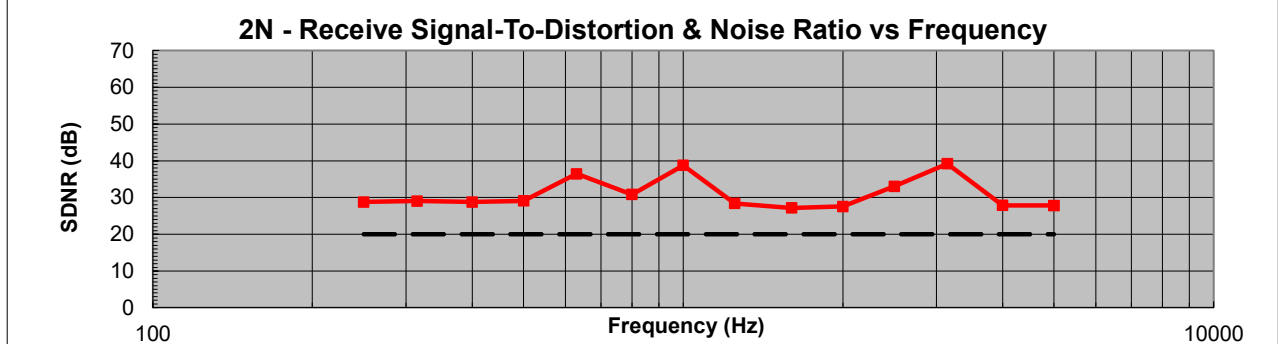
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.14 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level -20 dBPa

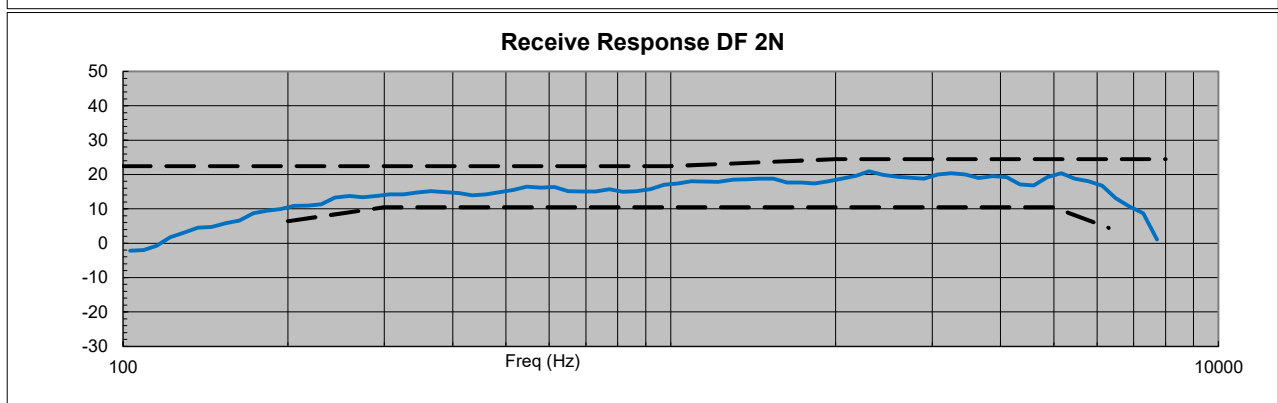
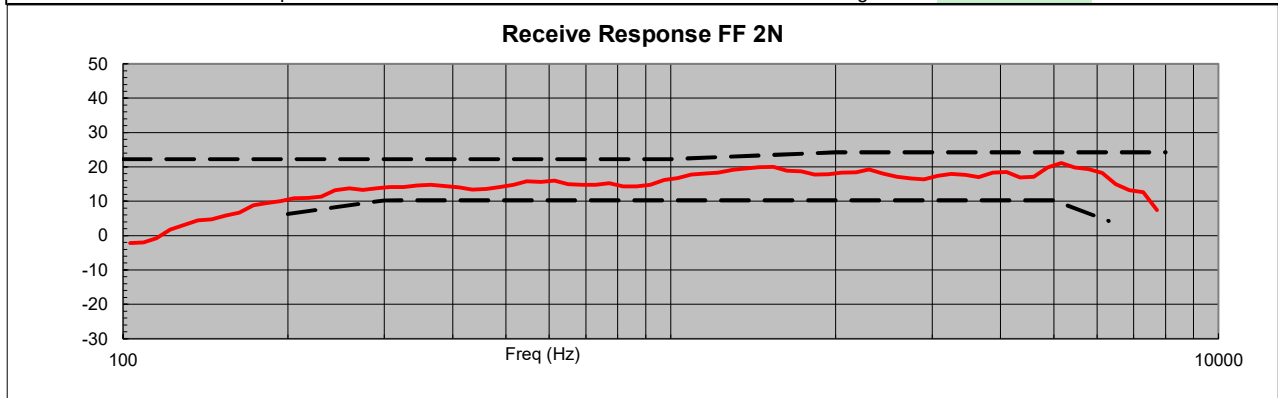
Sentence conditioning -20 dBPa

Short conditioning -20 dBPa



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	3.12 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.5 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

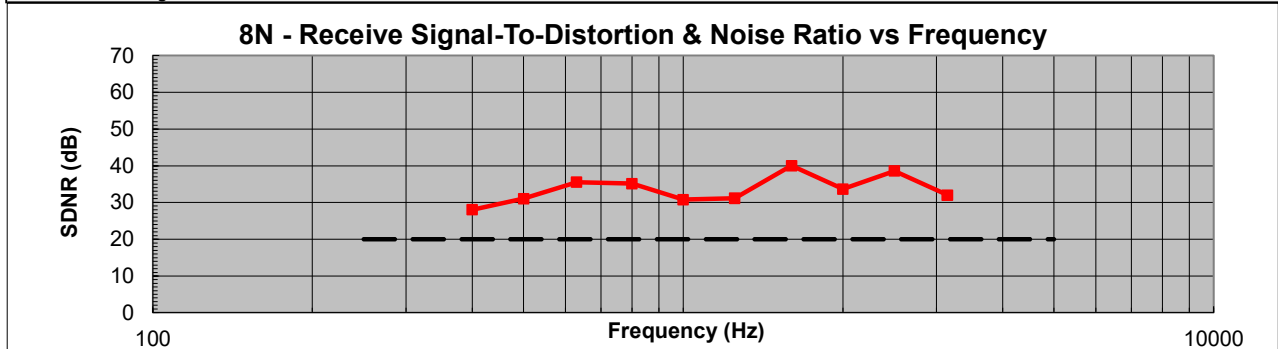
Device Under Test:	20251031_MIMO_NB_NHT6M_1_ch36_8N
Bandwidth	Narrowband
Test Date:	2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.99 dB	info only		
	Recv conversational gain 8N	19.99 dB	6.00	PASS	

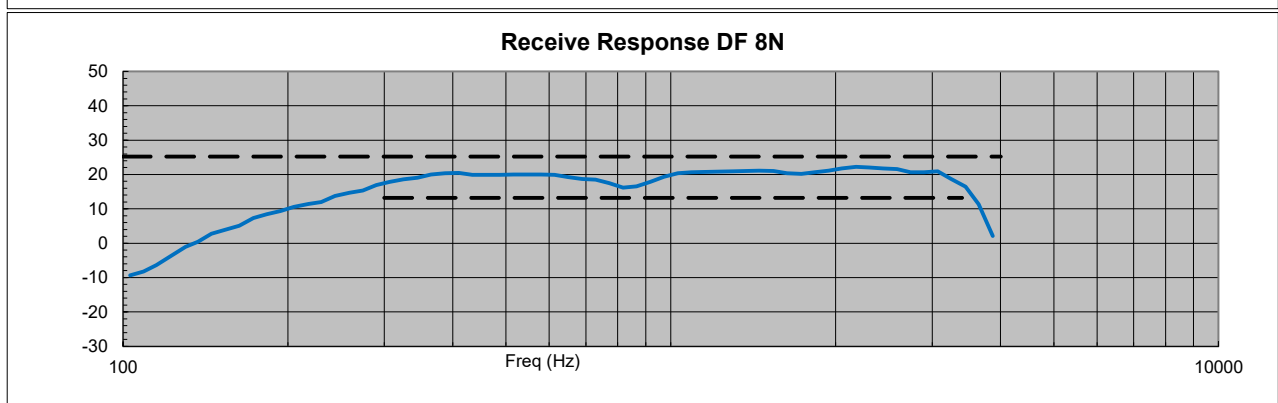
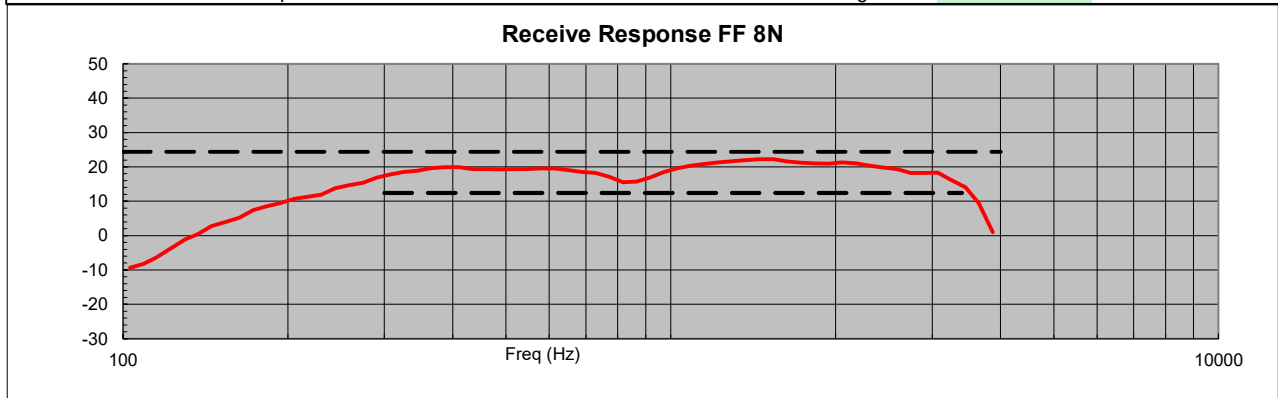
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	8 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.16 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.97 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

Device Under Test: 20251031_MIMO_WB_NHT6M_1_ch36_8N

Bandwidth: Wideband

Test Date: 2025-10-31

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.26 dB	info only		
	Recv conversational gain 8N	19.26 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.6 dB	Absolute Limits	PASS	

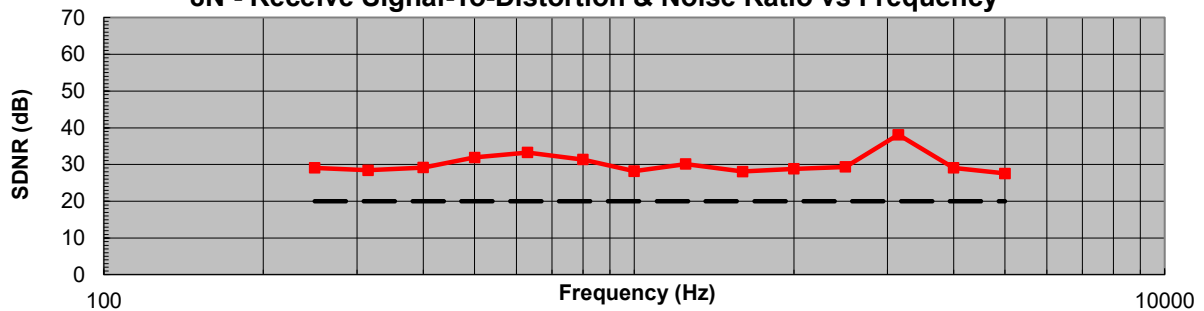
Note: SDNR includes noise and distortion products.

Stimulus level: -20 dBPa

Sentence conditioning: -20 dBPa

Short conditioning: -20 dBPa

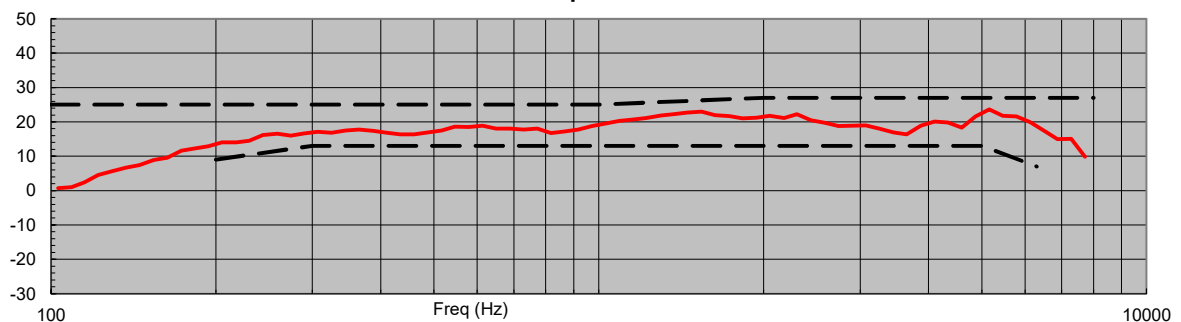
8N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



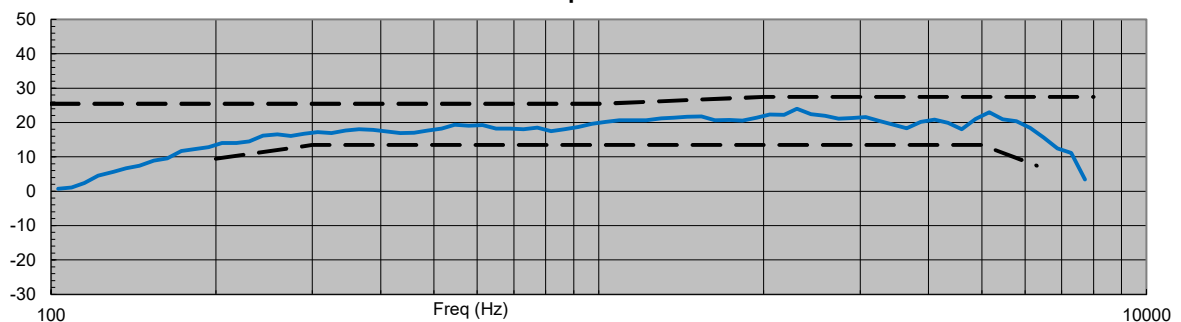
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.31 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.4 dB	Floating Limits	PASS	

Receive Response FF 8N



Receive Response DF 8N



TIA-5050 Receive Volume Control Measurements - 2N

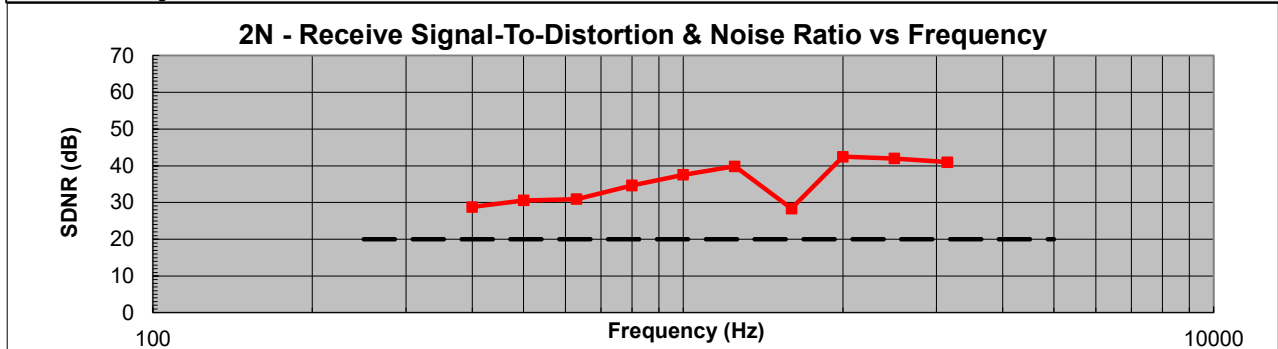
Device Under Test:	20251101_B66_NB_2N
Bandwidth	Narrowband
Test Date:	2025-11-01

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.49 dB	info only		
	Recv conversational gain 2N	17.49 dB	6.00	PASS	

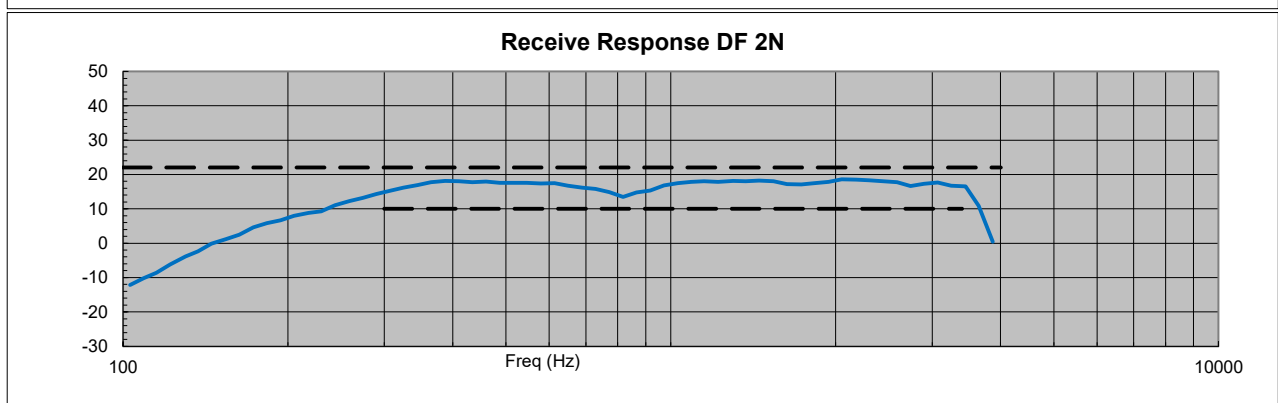
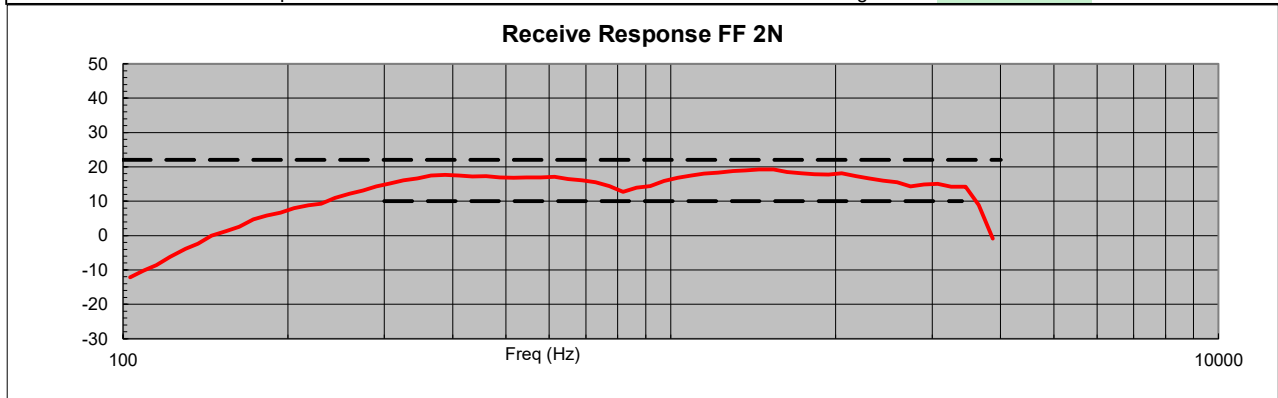
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.34 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.76 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.42 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_B66_WB_2N
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Bandwidth	Wideband
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Test Date:	2025-11-01
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Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.95 dB	info only		
	Recv conversational gain 2N	16.95 dB	6.00	PASS	

Receive Distortion and Noise Performance

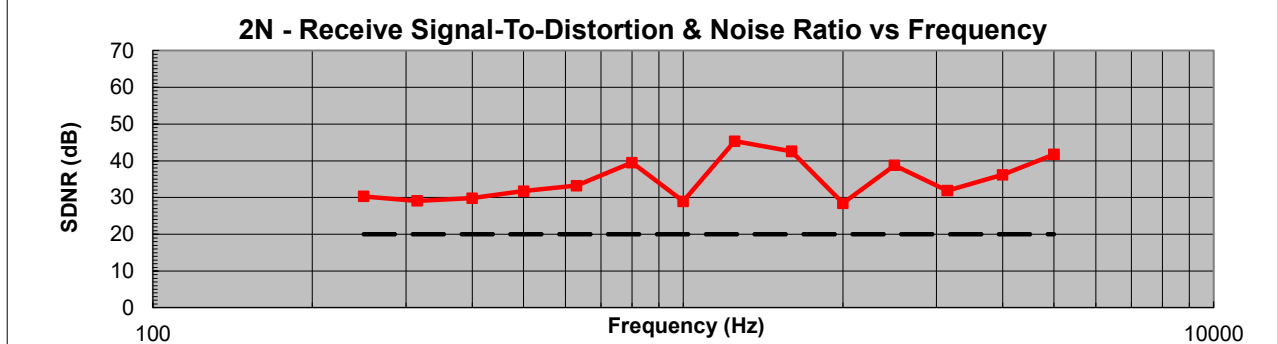
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.43 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level -20 dBPa

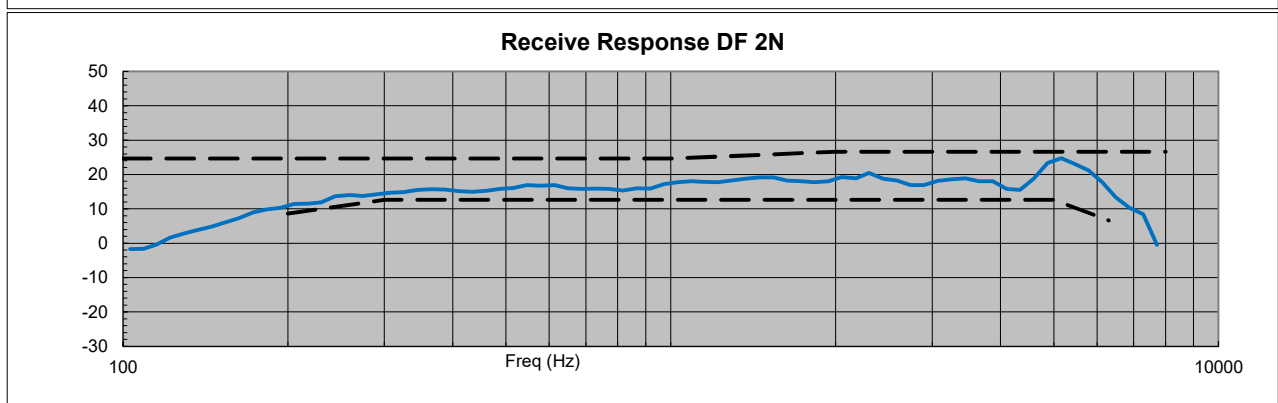
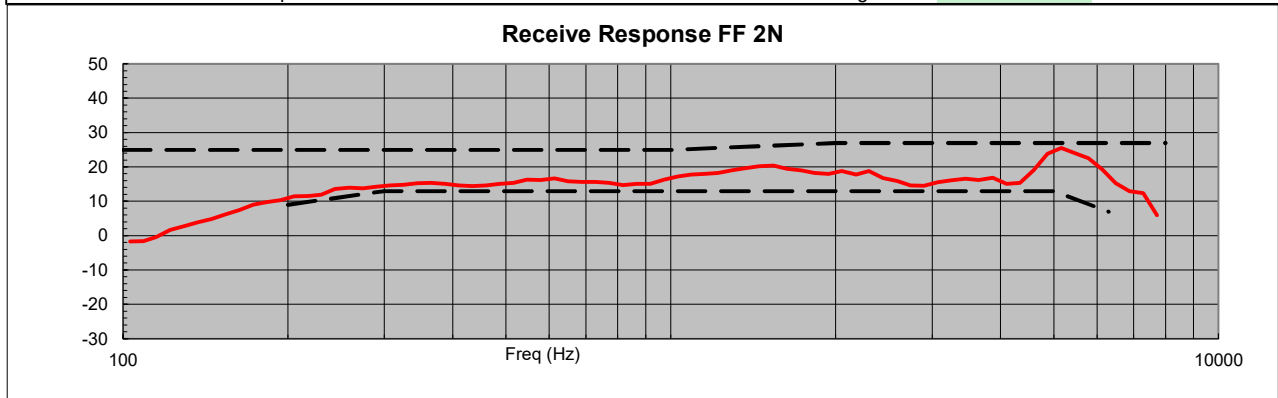
Sentence conditioning -20 dBPa

Short conditioning -20 dBPa



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	1.46 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.8 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_B41_NB_2N
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Bandwidth	Narrowband
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Test Date:	2025-11-01
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Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.47 dB	info only		
	Recv conversational gain 2N	17.47 dB	6.00	PASS	

Receive Distortion and Noise Performance

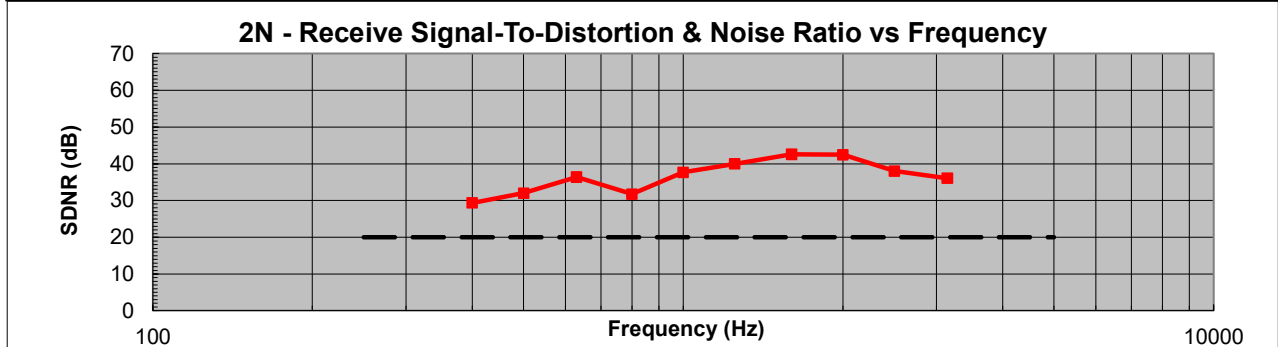
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	9.34 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level -20 dBPa

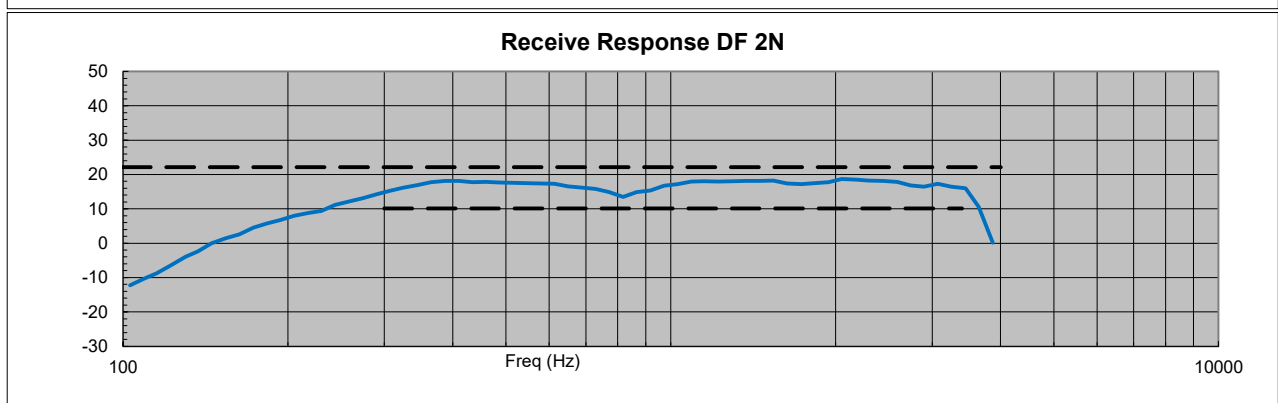
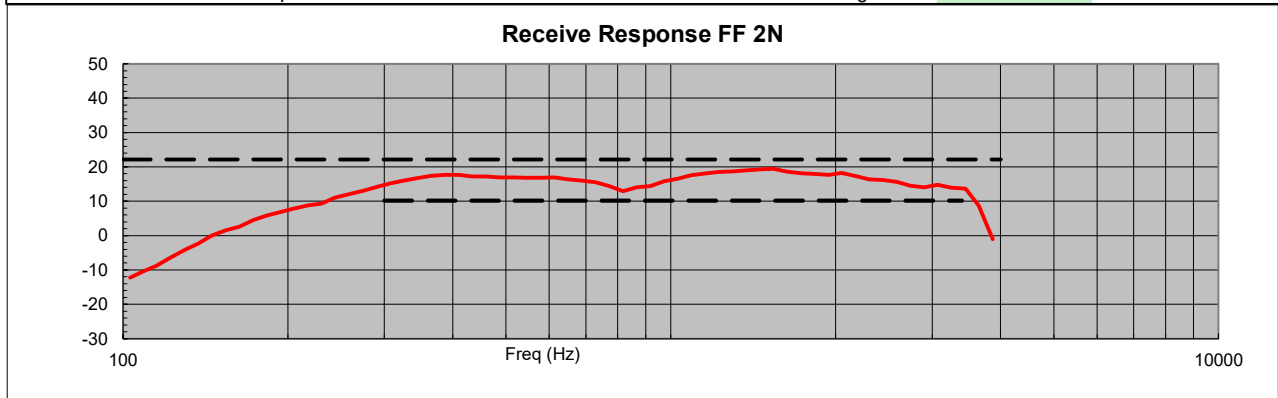
Sentence conditioning -20 dBPa

Short conditioning -20 dBPa



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.71 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.43 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

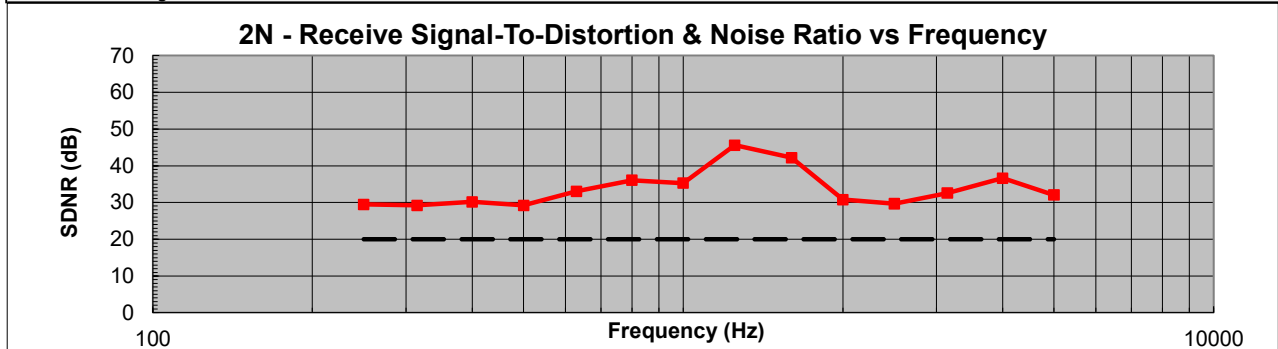
Device Under Test:	20251101_B41_WB_2N
Bandwidth	Wideband
Test Date:	2025-11-01

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.91 dB	info only		
	Recv conversational gain 2N	16.91 dB	6.00	PASS	

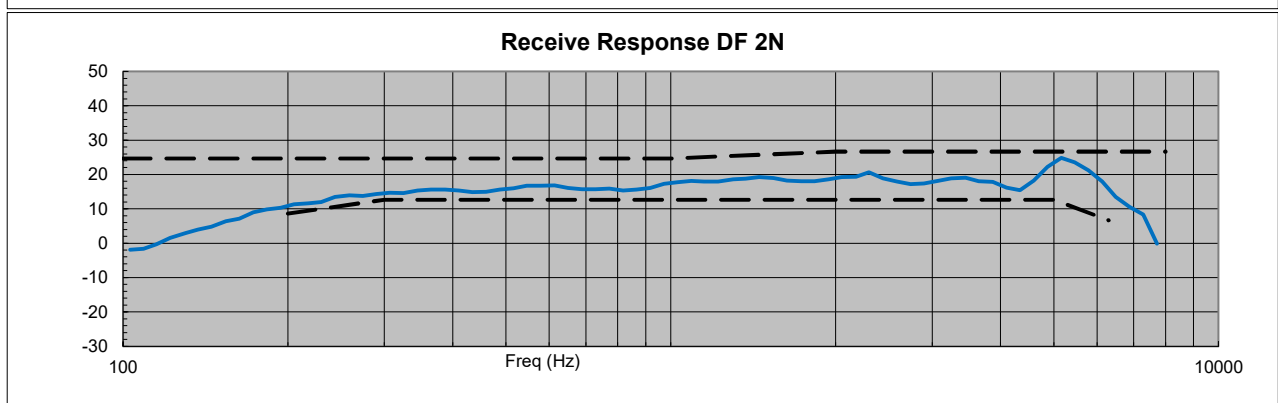
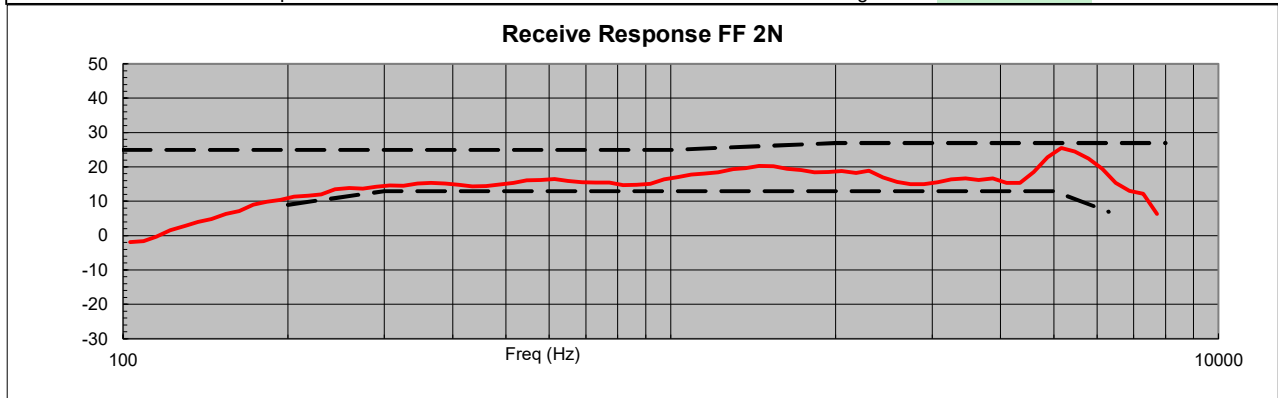
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	9.19 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	1.43 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.8 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_n66_NB_2N
Bandwidth	Narrowband
Test Date:	2025-11-01

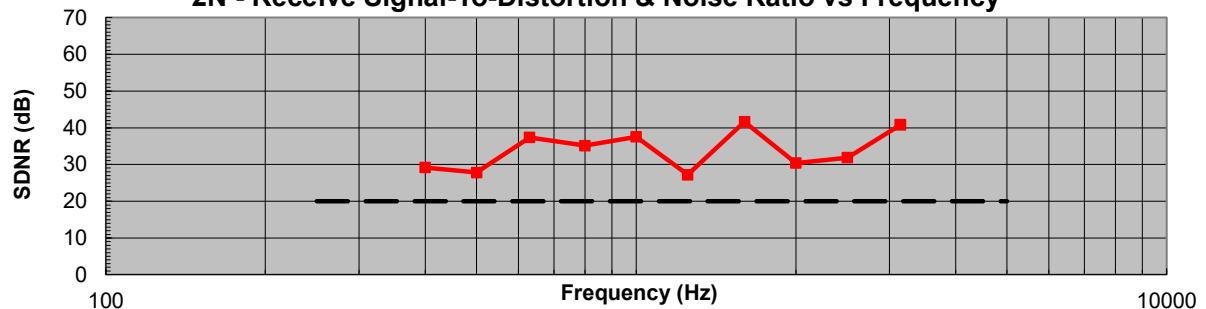
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.48 dB	info only		
	Recv conversational gain 2N	17.48 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.25 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

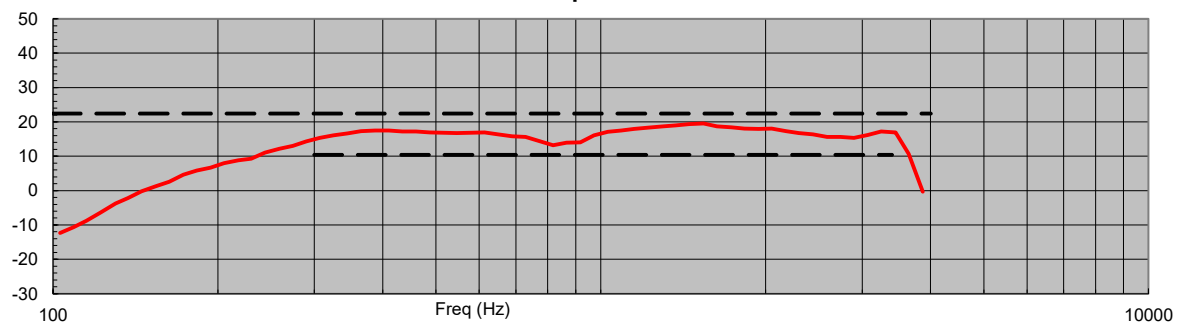
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



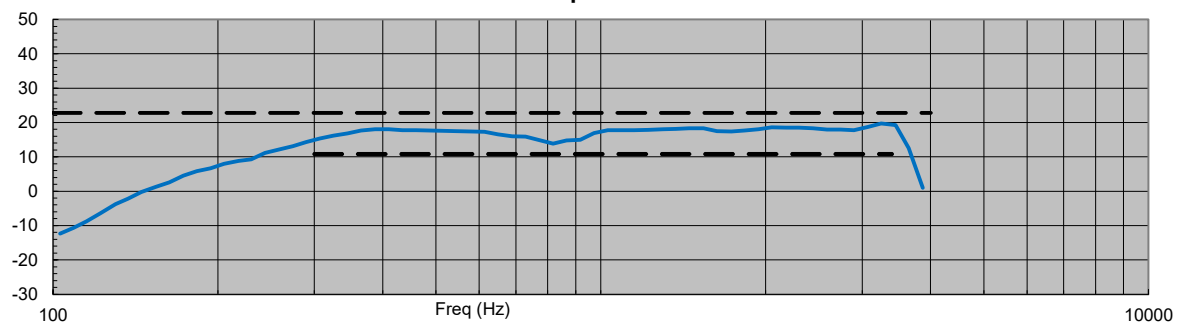
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.83 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.09 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

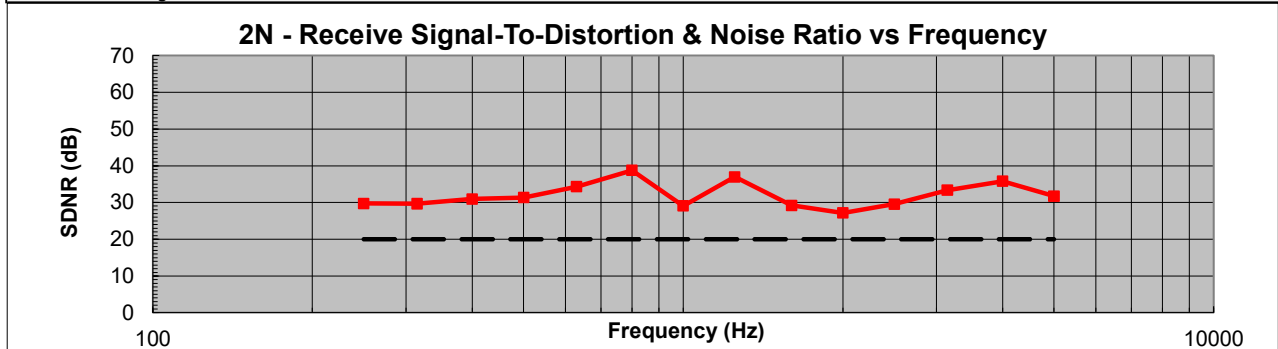
Device Under Test:	20251101_n66_WB_2N
Bandwidth	Wideband
Test Date:	2025-11-01

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.81 dB	info only		
	Recv conversational gain 2N	16.81 dB	6.00	PASS	

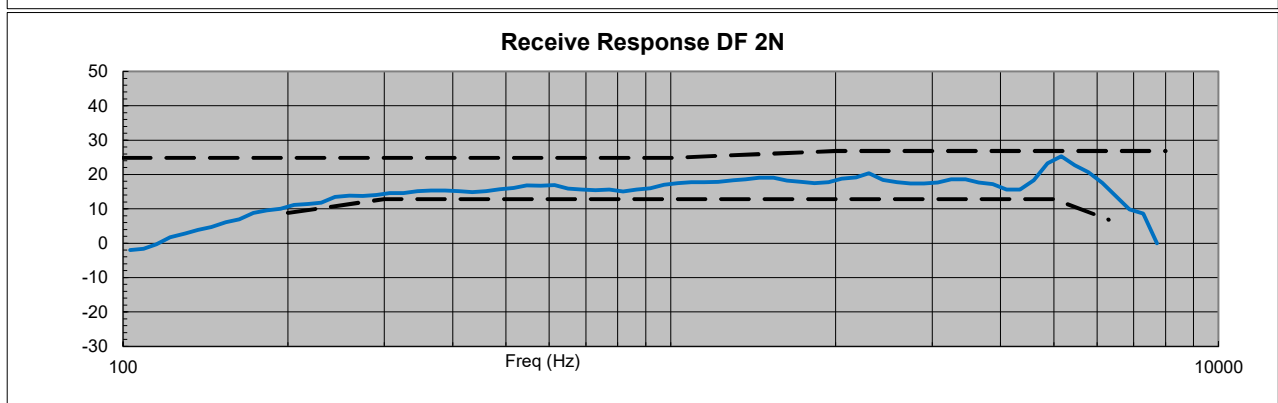
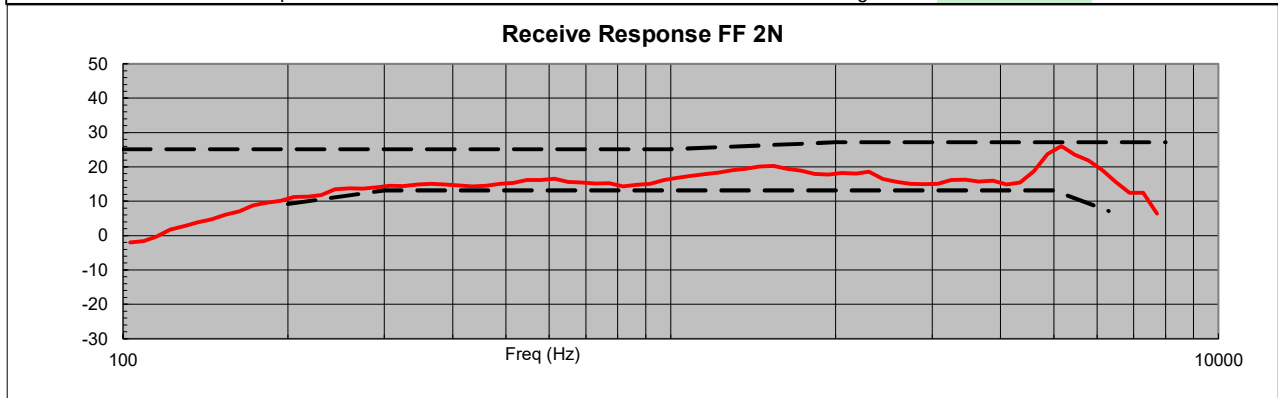
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.16 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	1.13 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.5 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_n41_NB_2N
Bandwidth	Narrowband
Test Date:	2025-11-01

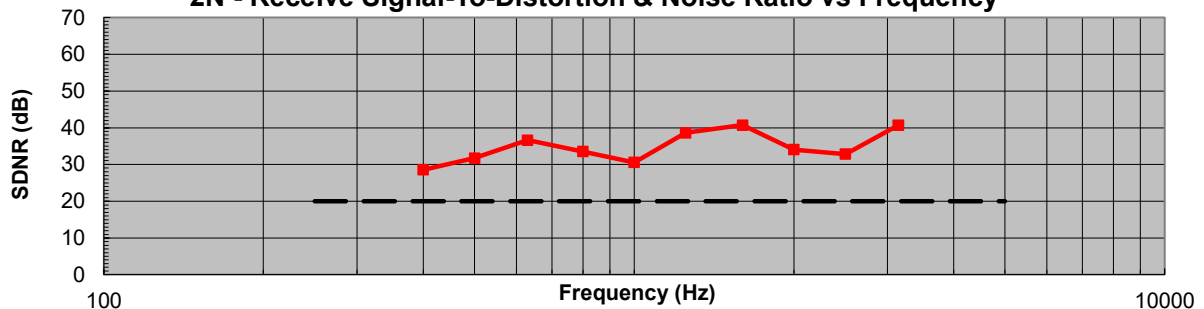
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.77 dB	info only		
	Recv conversational gain 2N	17.77 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.56 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

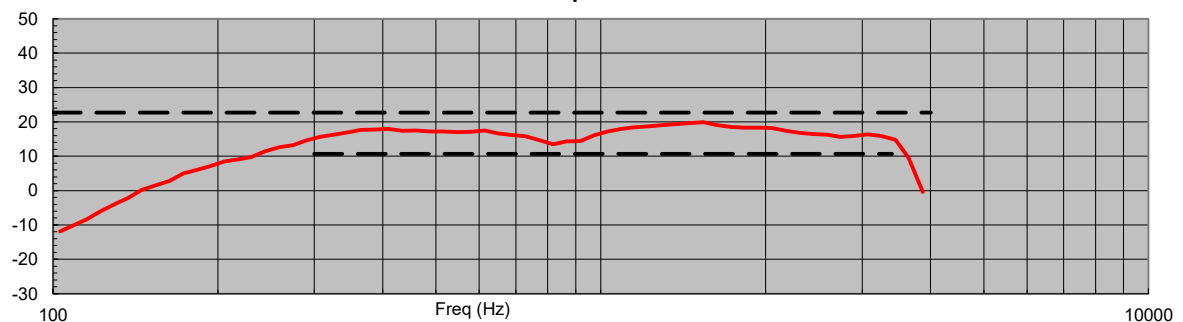
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



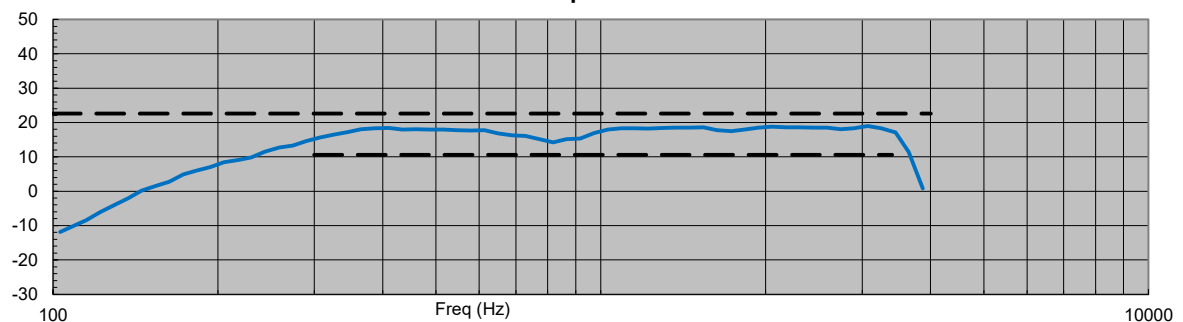
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.83 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.6 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_n41_WB_2N
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Bandwidth	Wideband
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Test Date:	2025-11-01
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Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.91 dB	info only		
	Recv conversational gain 2N	16.91 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.3 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level

-20 dBPa

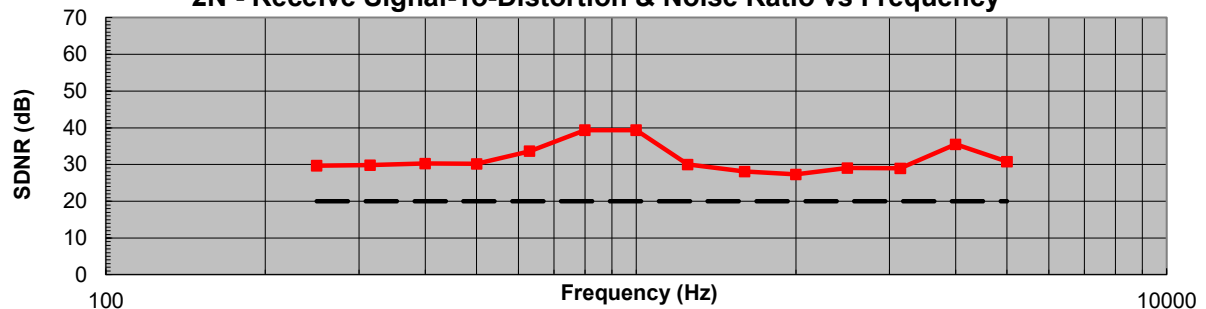
Sentence conditioning

-20 dBPa

Short conditioning

-20 dBPa

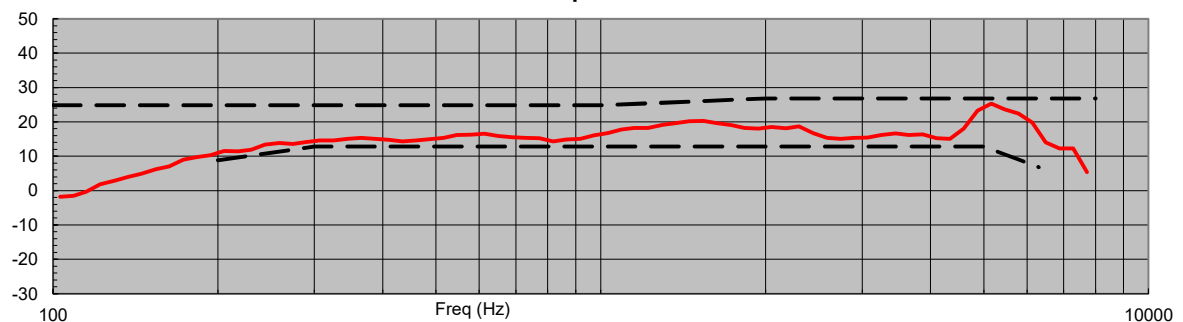
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



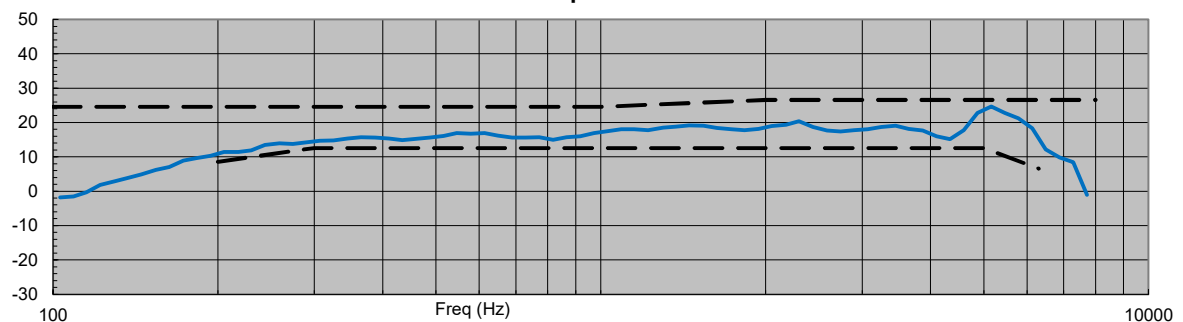
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	1.47 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.9 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

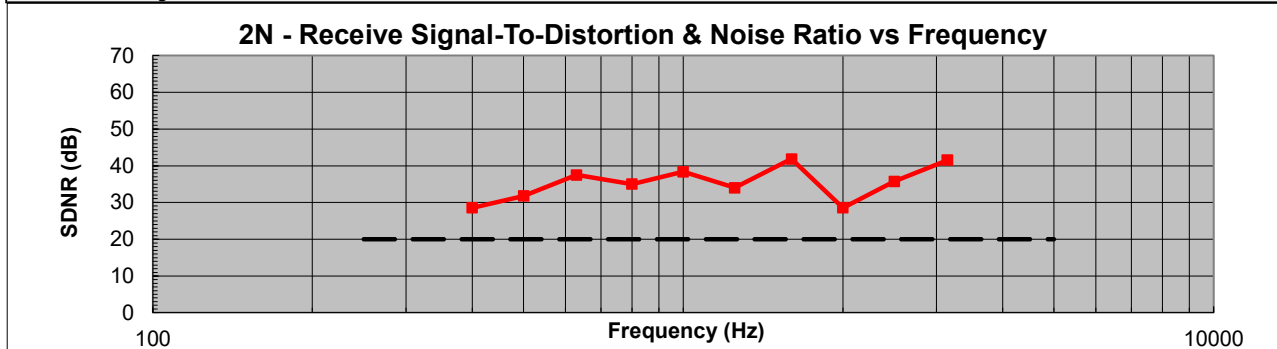
Device Under Test:	20251101_wifi2.4G_NB_2N
Bandwidth	Narrowband
Test Date:	2025-11-01

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.47 dB	info only		
	Recv conversational gain 2N	17.47 dB	6.00	PASS	

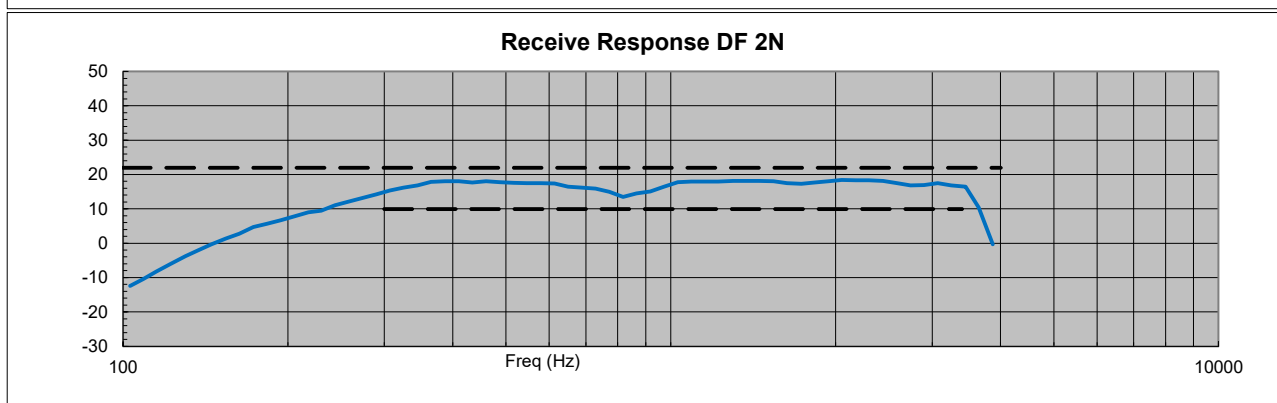
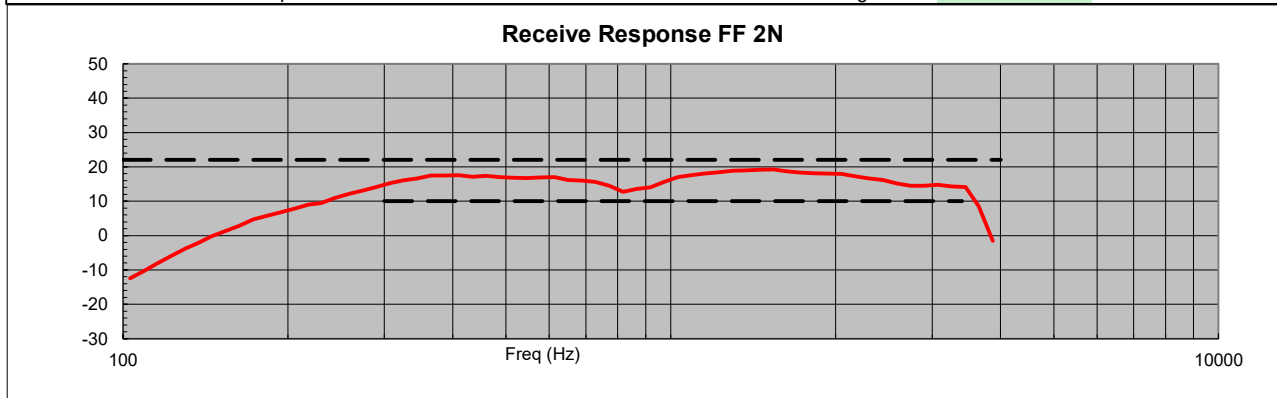
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	8.58 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.75 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.52 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test: 20251101_wifi2.4G_WB_2N

Bandwidth: Wideband

Test Date: 2025-11-01

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.92 dB	info only		
	Recv conversational gain 2N	16.92 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	9.7 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level

-20 dBPa

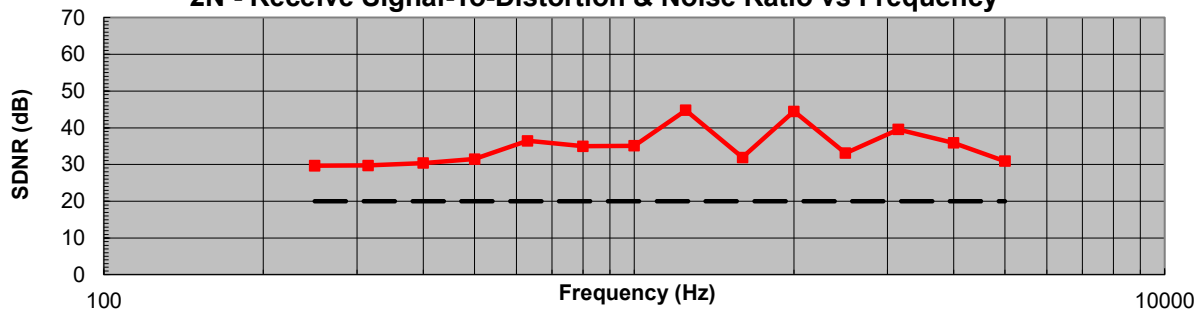
Sentence conditioning

-20 dBPa

Short conditioning

-20 dBPa

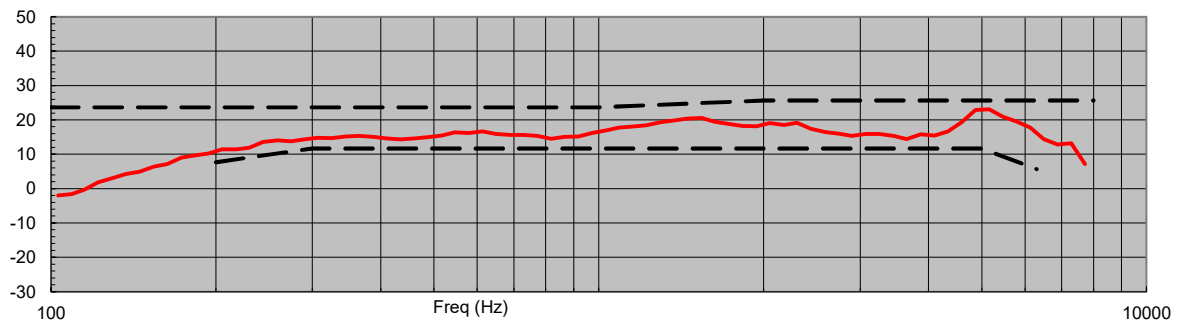
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



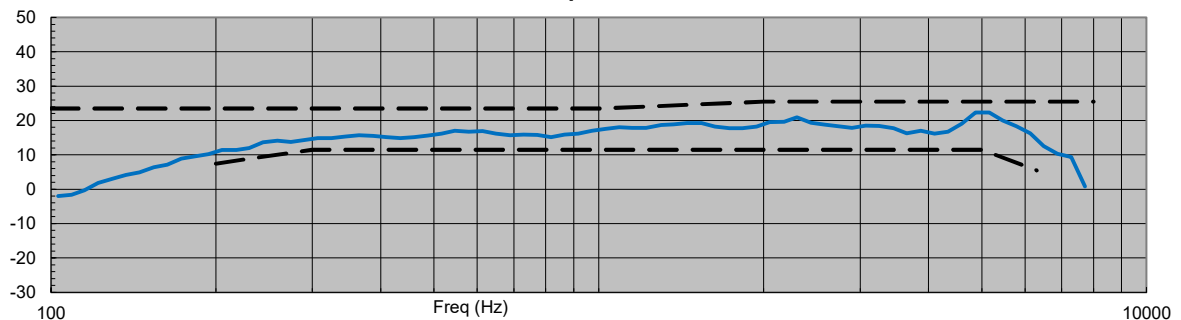
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.62 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_wifi5G_NB_2N
Bandwidth	Narrowband
Test Date:	2025-11-01

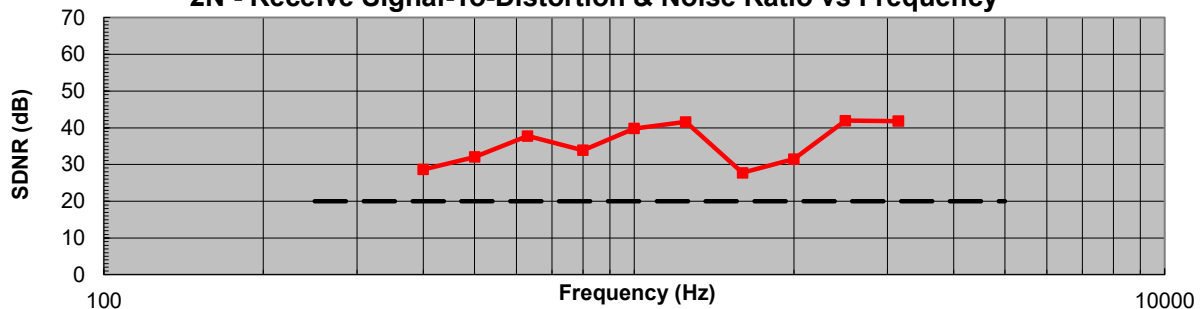
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	87.45 dB	info only		
	Recv conversational gain 2N	17.45 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.73 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

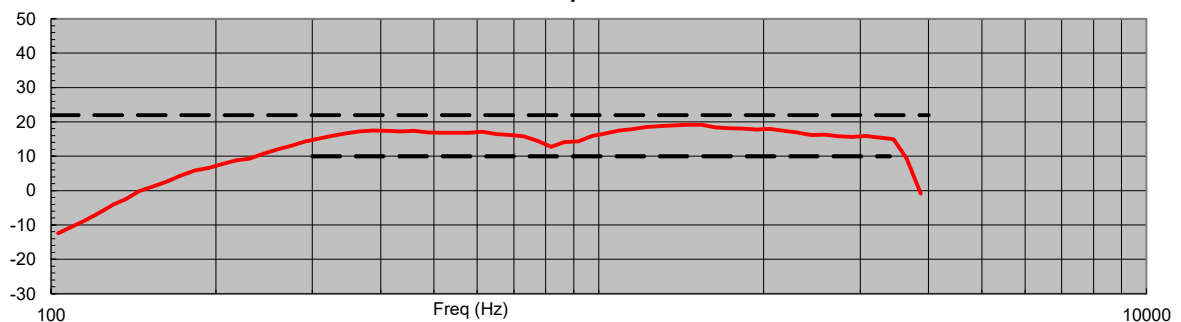
2N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



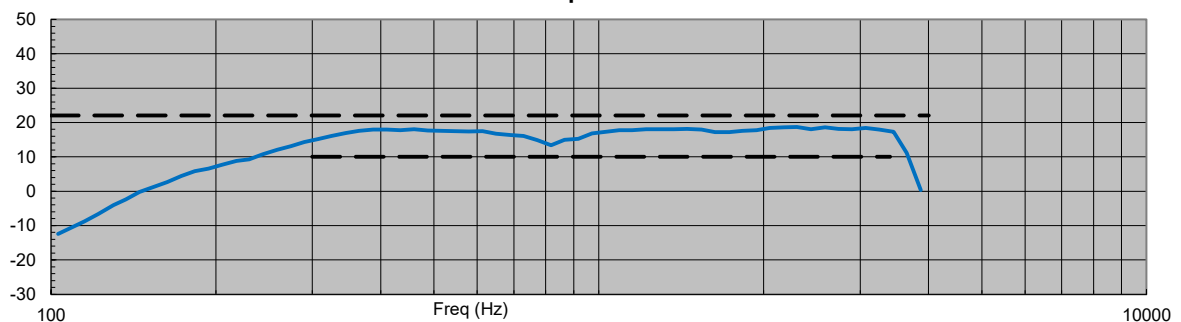
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	2.76 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.36 dB	Floating Limits	PASS	

Receive Response FF 2N



Receive Response DF 2N



TIA-5050 Receive Volume Control Measurements - 2N

Device Under Test:	20251101_wifi5G_WB_2N
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Bandwidth	Wideband
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Test Date:	2025-11-01
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Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 2N	86.88 dB	info only		
	Recv conversational gain 2N	16.88 dB	6.00	PASS	

Receive Distortion and Noise Performance

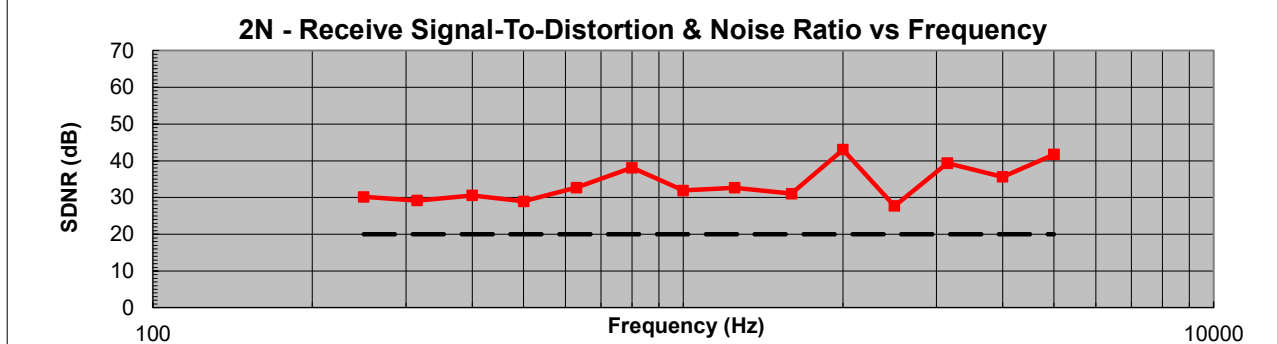
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 2N	7.71 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level -20 dBPa

Sentence conditioning -20 dBPa

Short conditioning -20 dBPa



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 2N	1.3 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.7 dB	Floating Limits	PASS	

