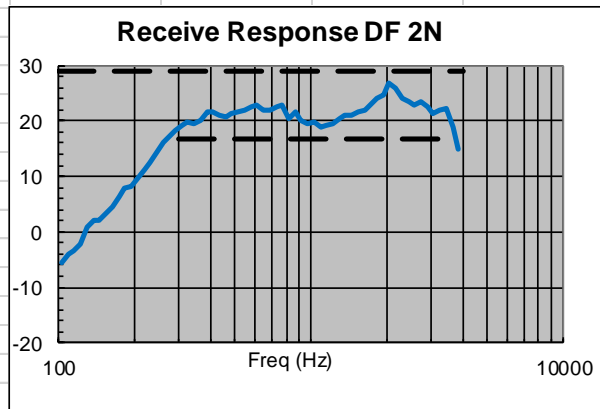
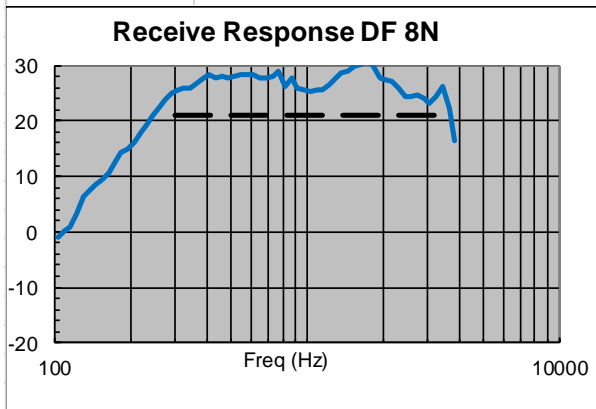
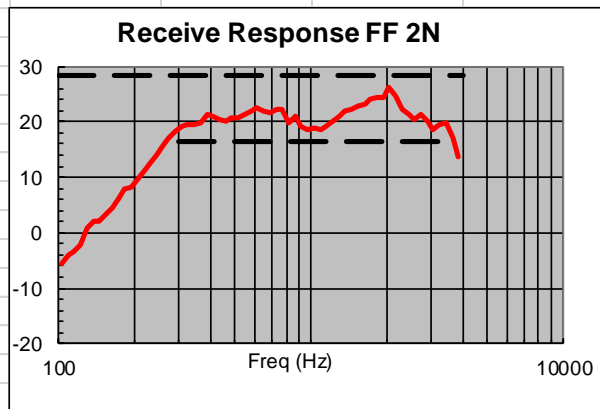
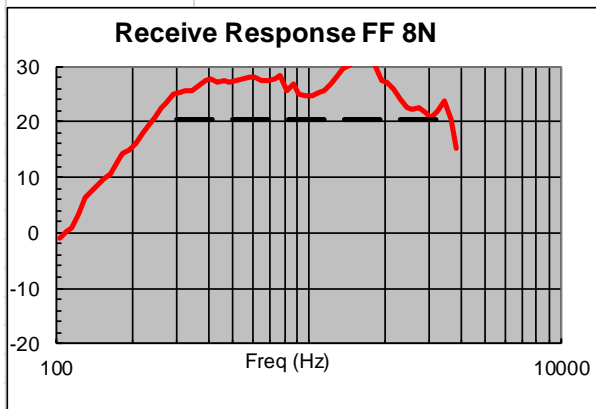


**LTE Band 25 EVS-NB: 9.6 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/11/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.33 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.12 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.13 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.02 dB	Floating Limits	PASS	



**Output**

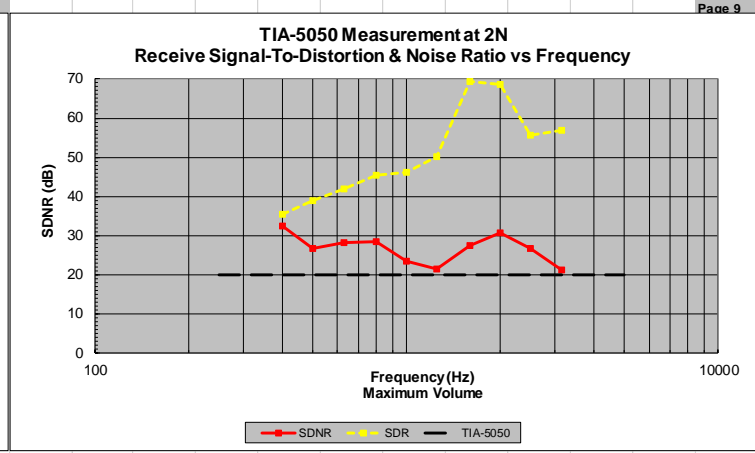
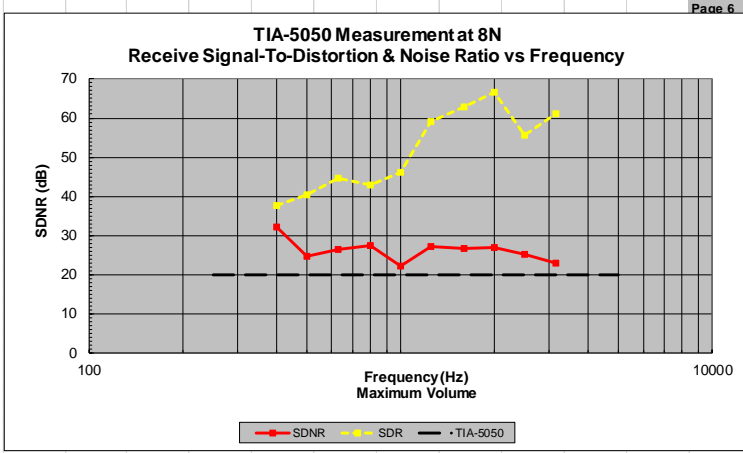
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.79 dB	info only		
	Recv conversational gain 8N	27.79 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.45 dB	info only		
	Recv conversational gain 2N	21.45 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.26 dB	Absolute Limits	PASS	

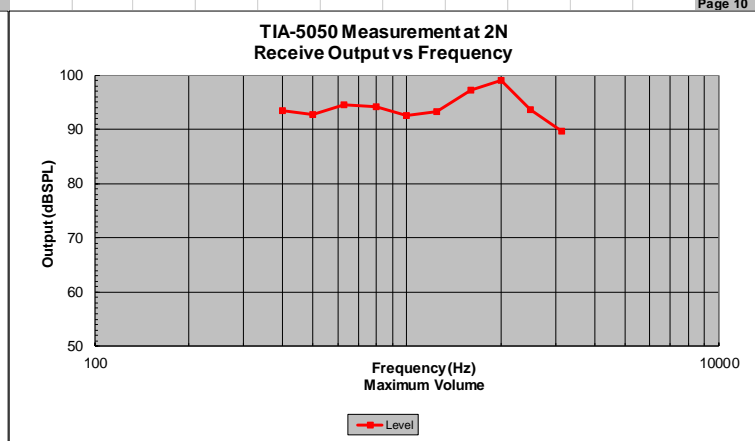
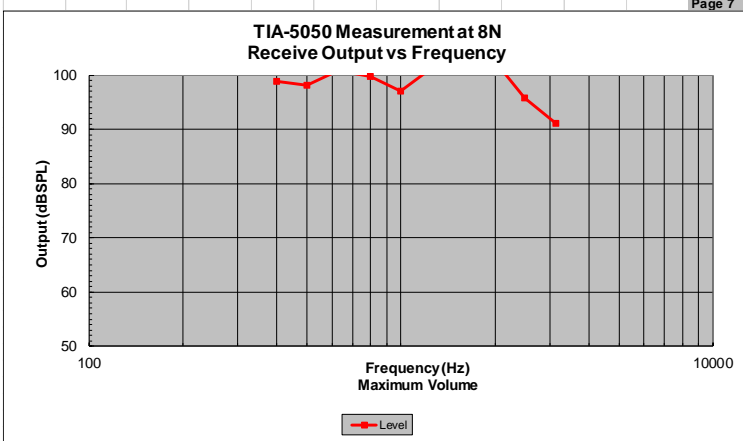
# LTE Band 25 EVS-NB: 9.6 kbps 1,0 RB QPSK

## Distortion Report



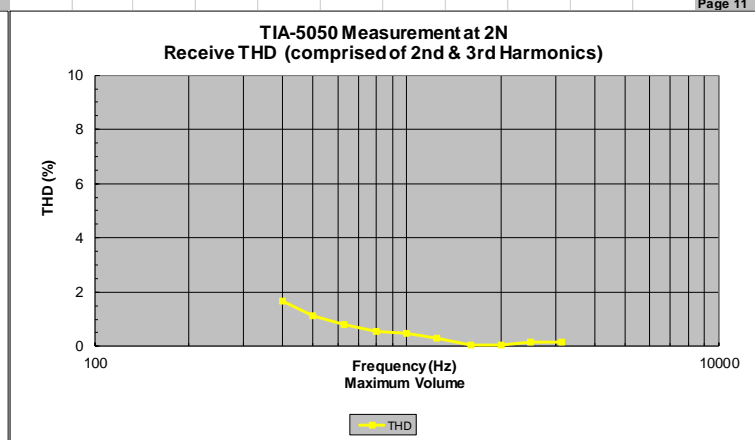
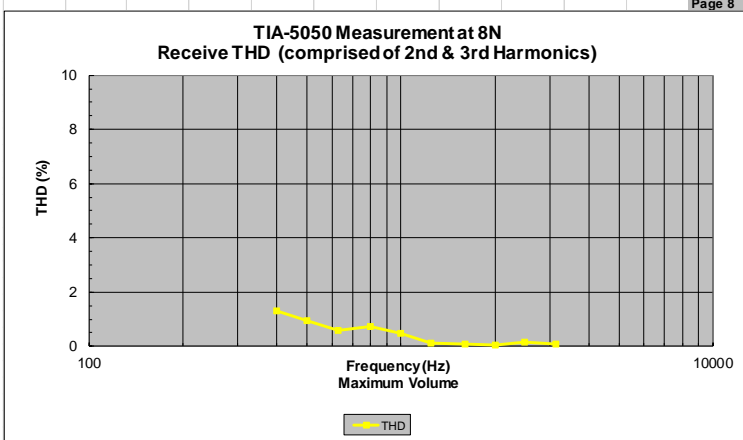
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.3 dB	Absolute Limits	PASS	6/11/2024 16:32
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.26 dB	Absolute Limits	PASS	6/11/2024 16:32
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/11/2024 16:32	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/11/2024 16:32	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/11/2024 16:32	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/11/2024 16:32	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

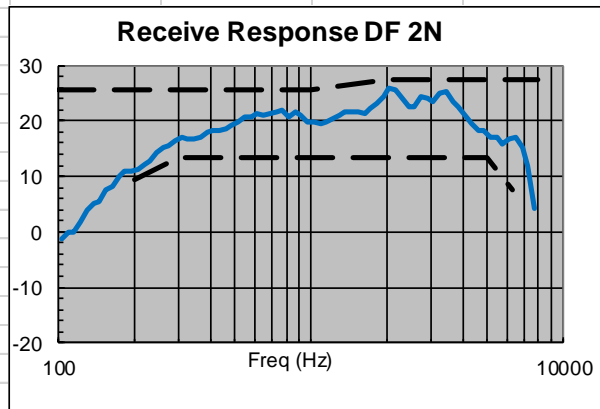
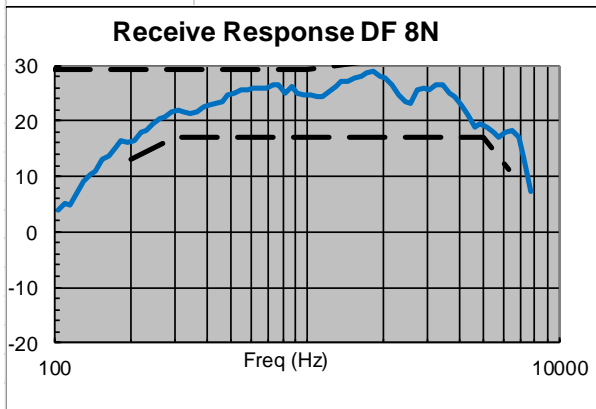
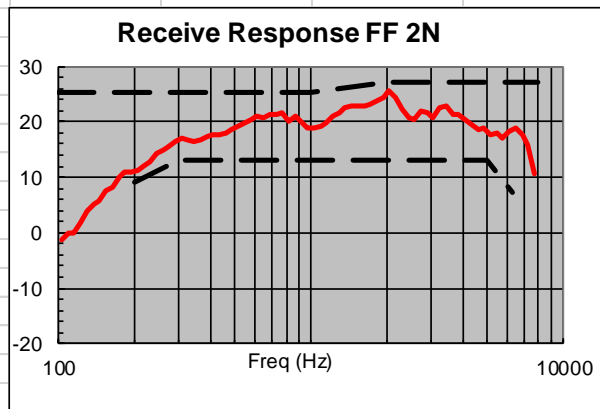
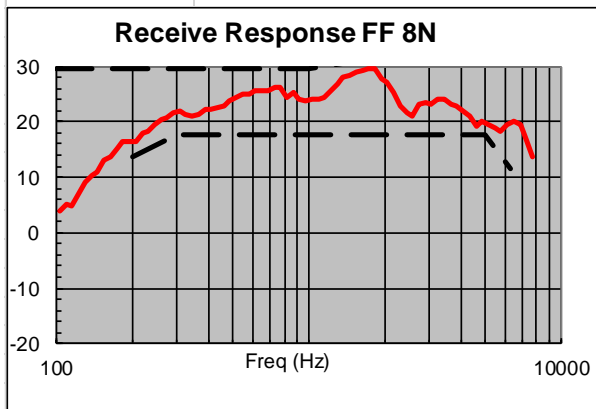
**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 EVS-WB
<b>Bandwidth:</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.55 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.73 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.5 dB	Floating Limits	PASS	



**Output**

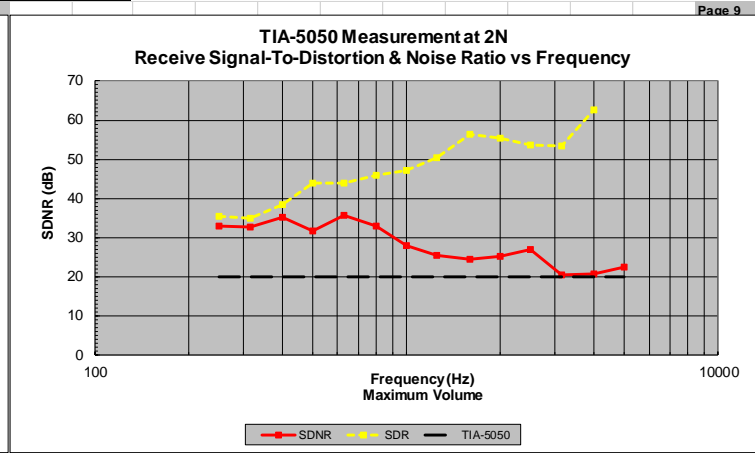
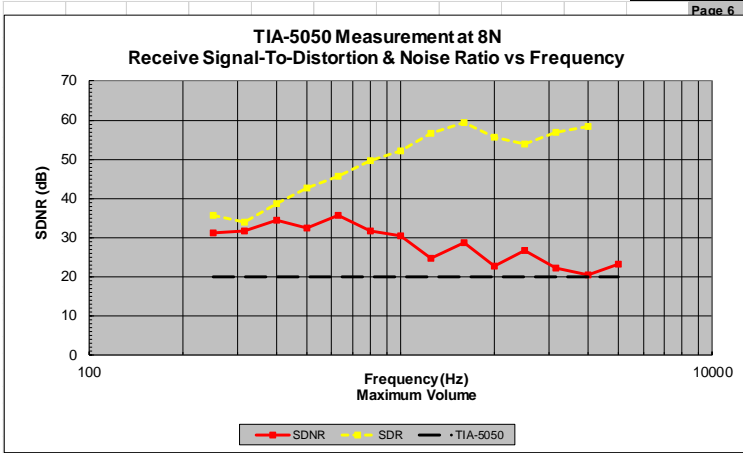
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.11 dB	info only		
	Recv conversational gain 8N	25.11 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.29 dB	info only		
	Recv conversational gain 2N	20.29 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.6 dB	Absolute Limits	PASS	

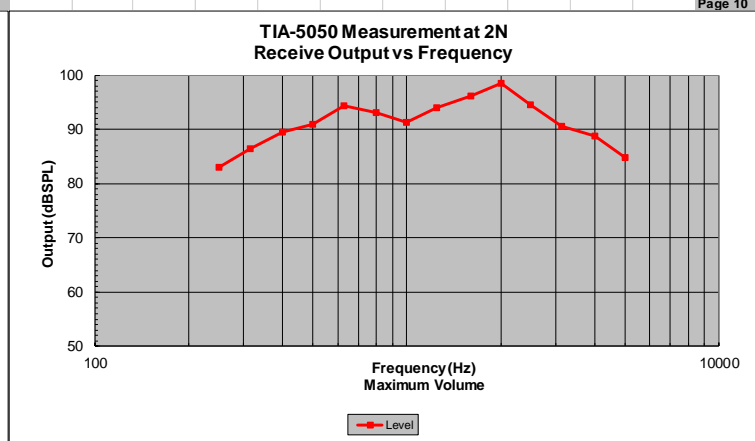
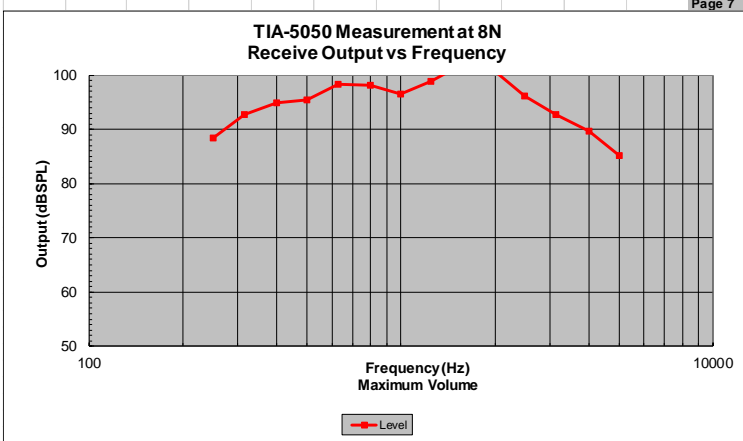
# LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



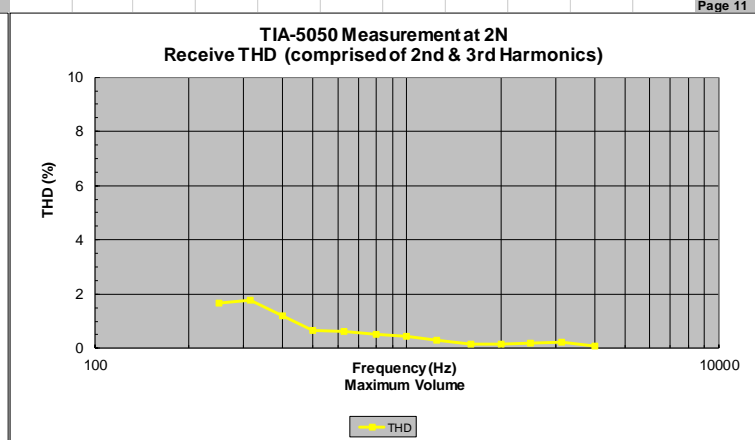
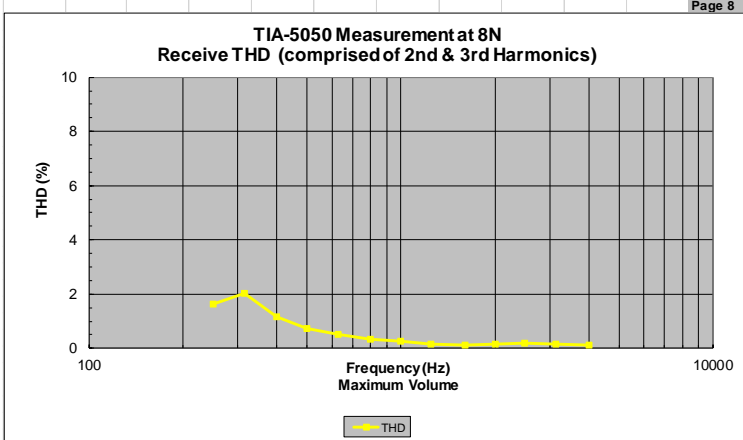
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	6/12/2024 14:10
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.6 dB	Absolute Limits	PASS	6/12/2024 14:10
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/12/2024 14:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 14:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/12/2024 14:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 14:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**LTE Band 25 EVS-WB: 24.4 kbps 100,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

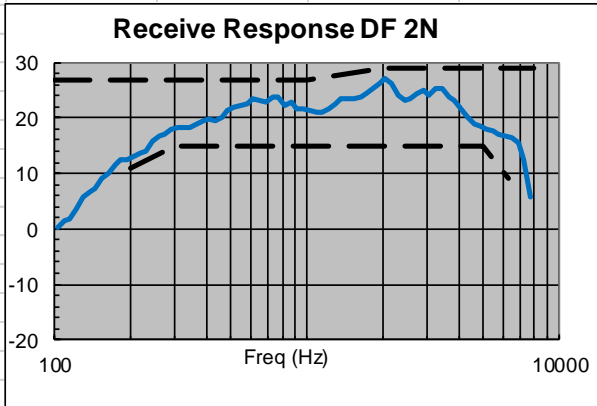
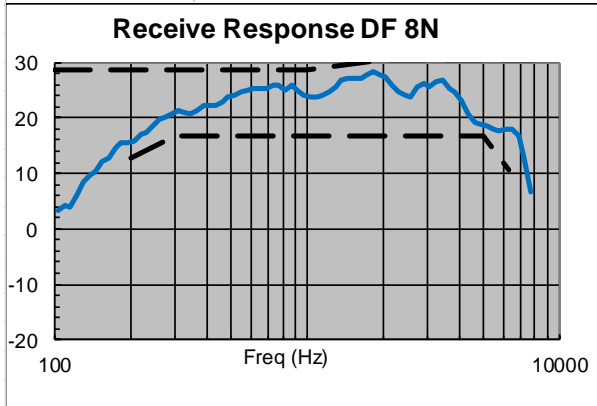
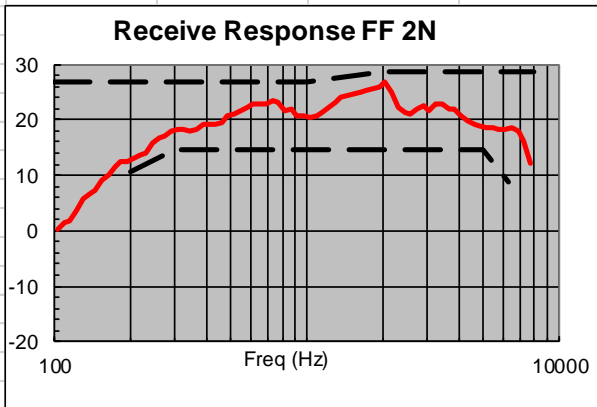
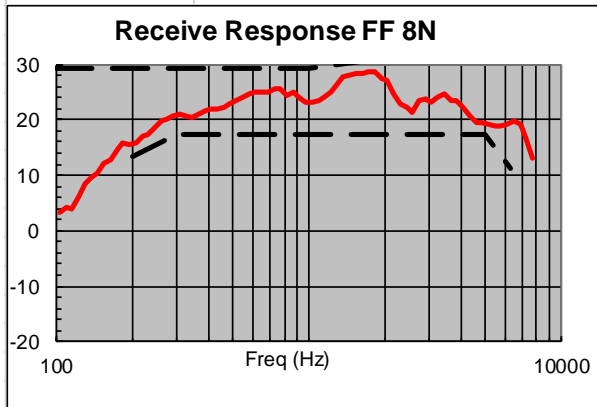
<b>Device Under Test:</b>	LTE B25 100RB EVS-WB
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<b>Bandwidth</b>	Wideband
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<b>Test Date:</b>	6/12/2024
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**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.02 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.8 dB	Floating Limits	PASS	



**Output**

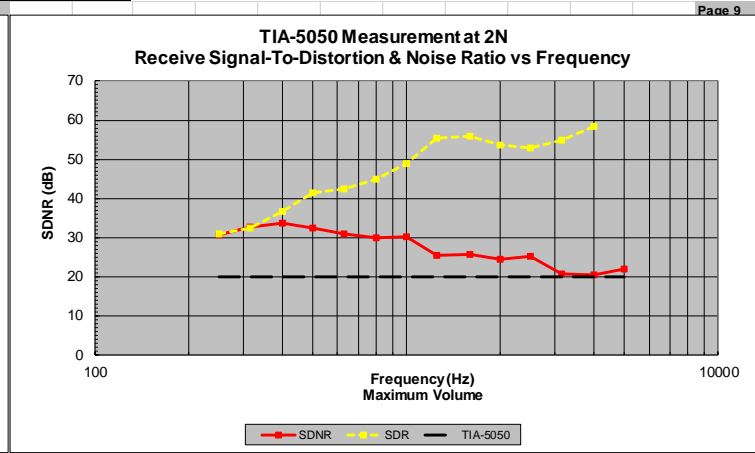
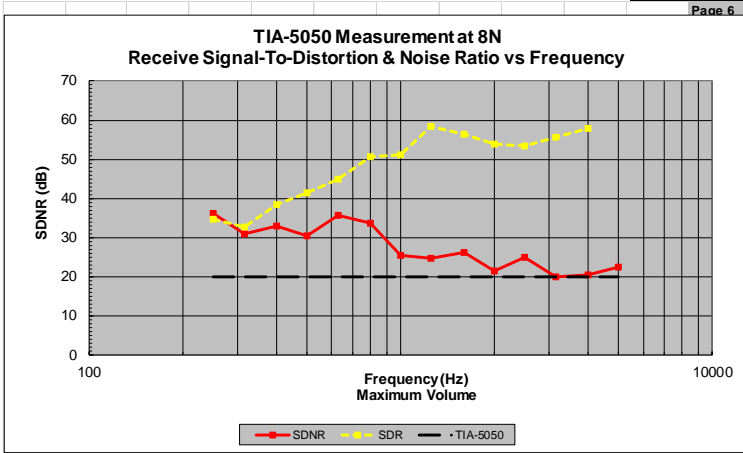
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.48 dB	info only		
	Recv conversational gain 8N	24.48 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.95 dB	info only		
	Recv conversational gain 2N	21.95 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.52 dB	Absolute Limits	PASS	

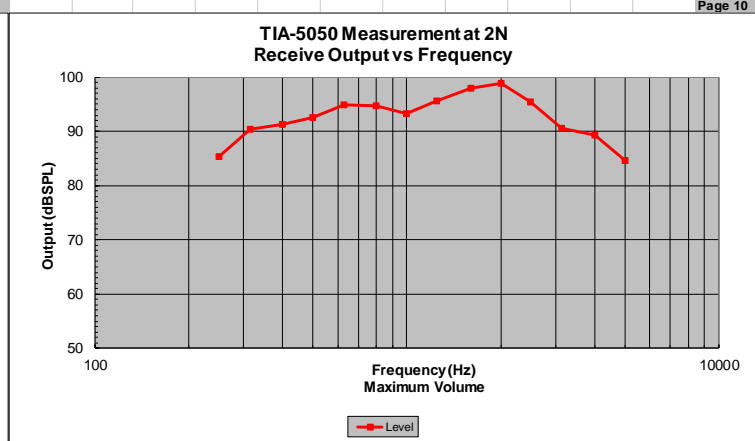
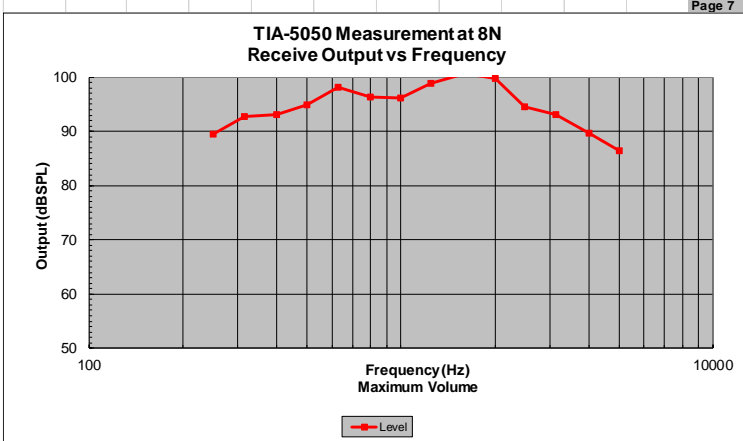
# LTE Band 25 EVS-WB: 24.4 kbps 100,0 RB QPSK

## Distortion Report



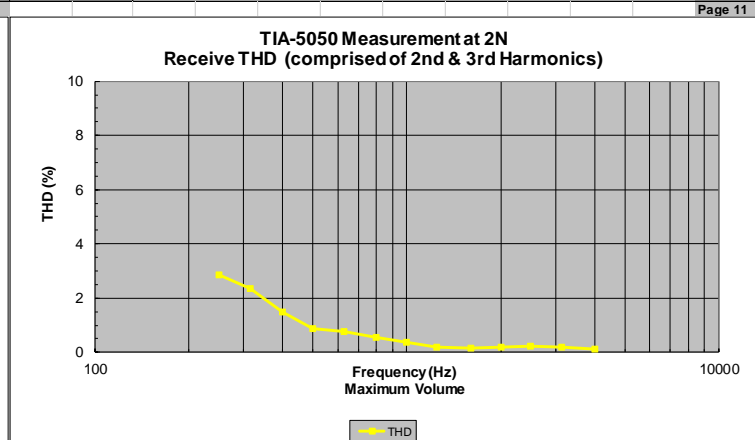
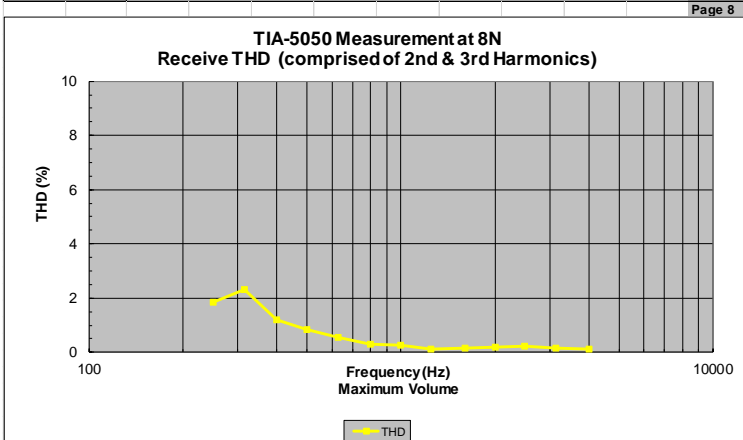
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/12/2024 14:42
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.52 dB	Absolute Limits	PASS	6/12/2024 14:42
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/12/2024 14:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 14:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/12/2024 14:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

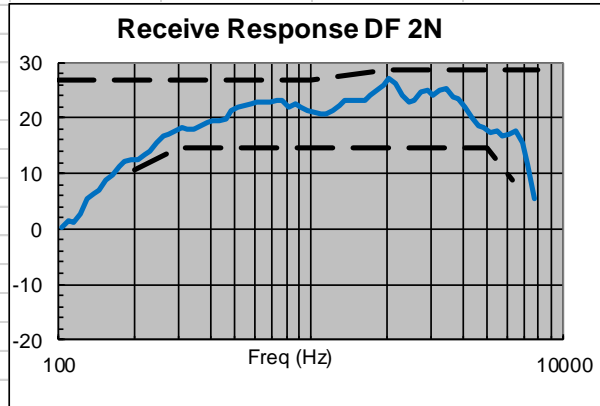
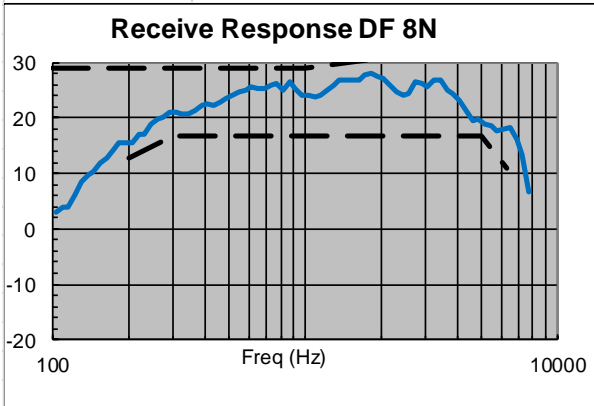
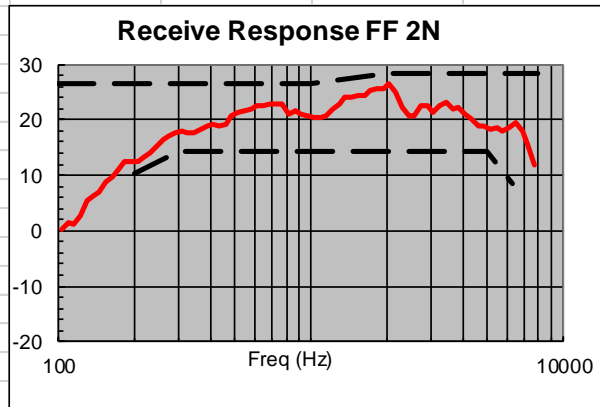
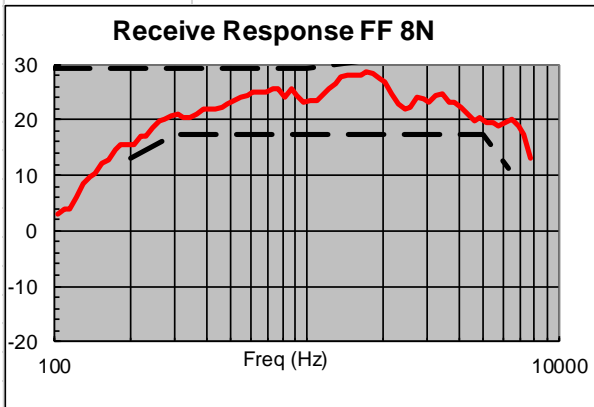
Test Date	
6/12/2024 14:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 16QAM EVS-WB
<b>Bandwidth:</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.14 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.88 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.6 dB	Floating Limits	PASS	



**Output**

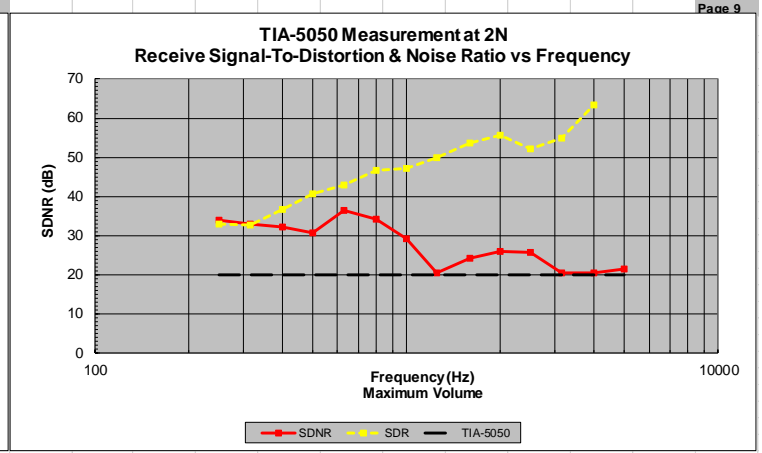
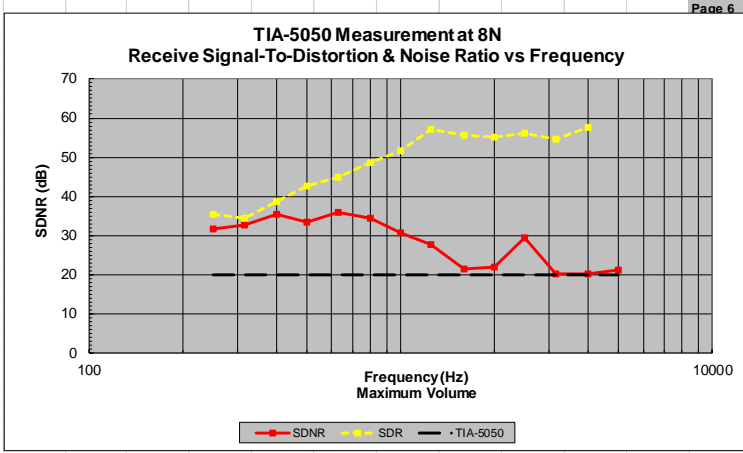
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.48 dB	info only		
	Recv conversational gain 8N	24.48 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.77 dB	info only		
	Recv conversational gain 2N	21.77 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.42 dB	Absolute Limits	PASS	

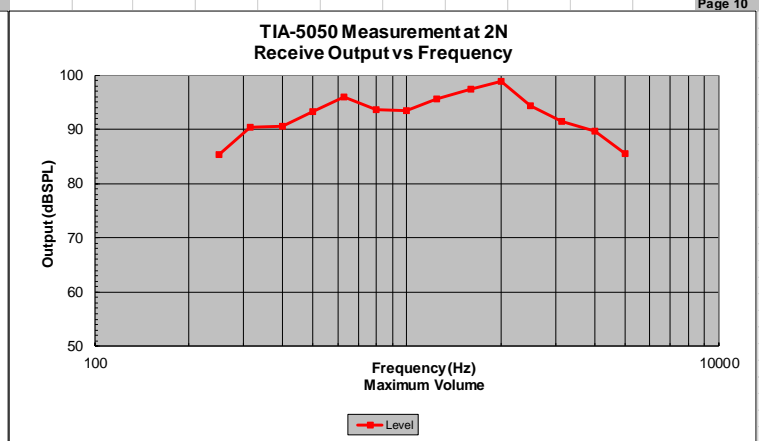
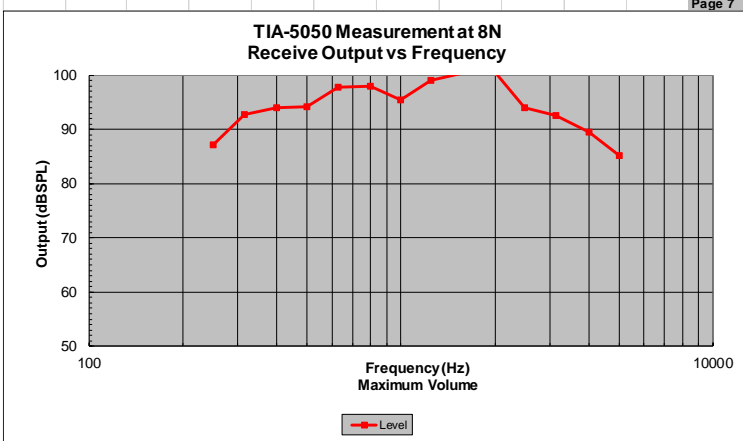
# LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 16QAM

## Distortion Report



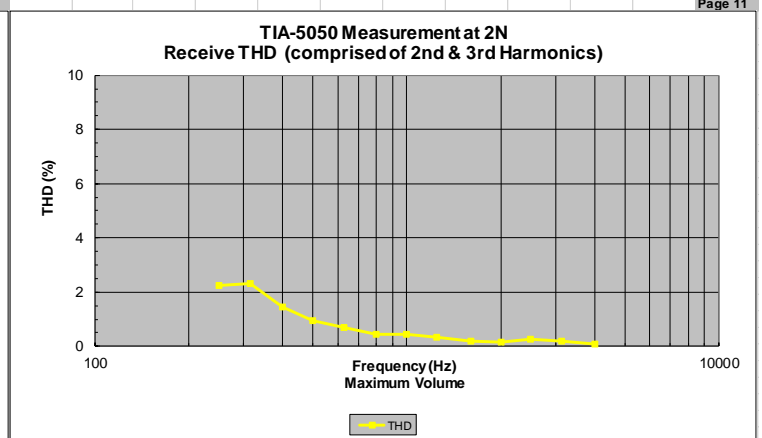
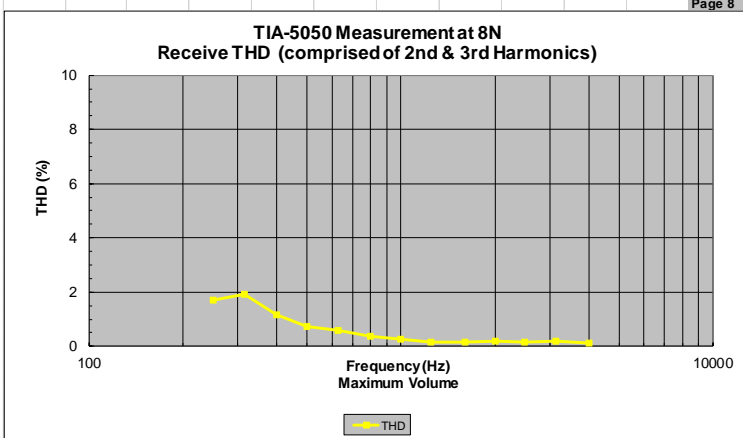
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/12/2024 15:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.42 dB	Absolute Limits	PASS	6/12/2024 15:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/12/2024 15:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 15:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/12/2024 15:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 15:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

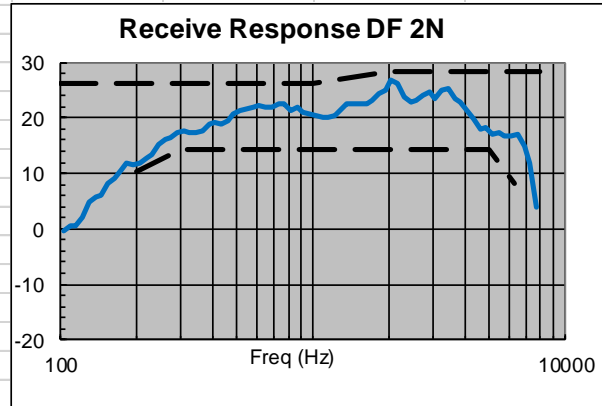
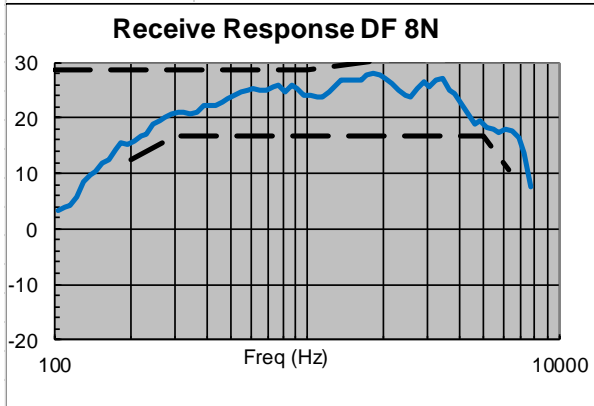
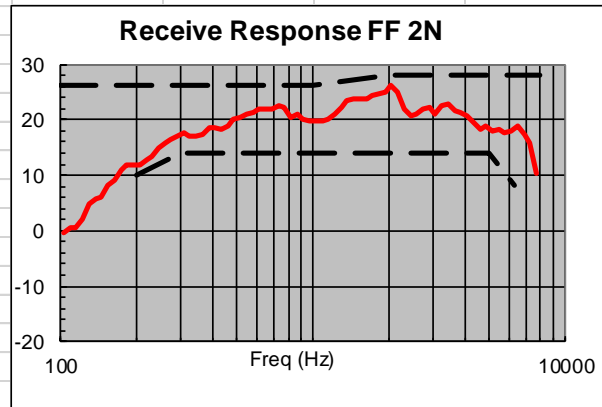
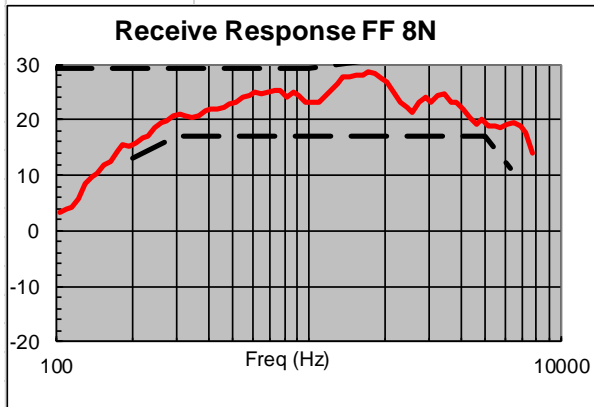


**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 64QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 64QAM EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.7 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.4 dB	Floating Limits	PASS	



**Output**

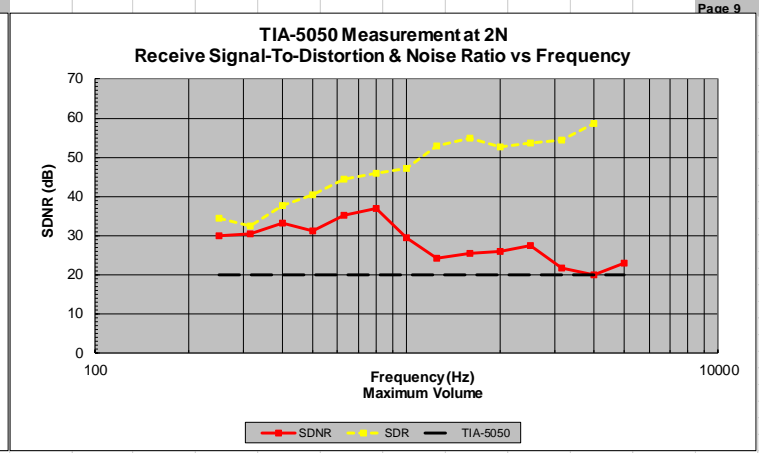
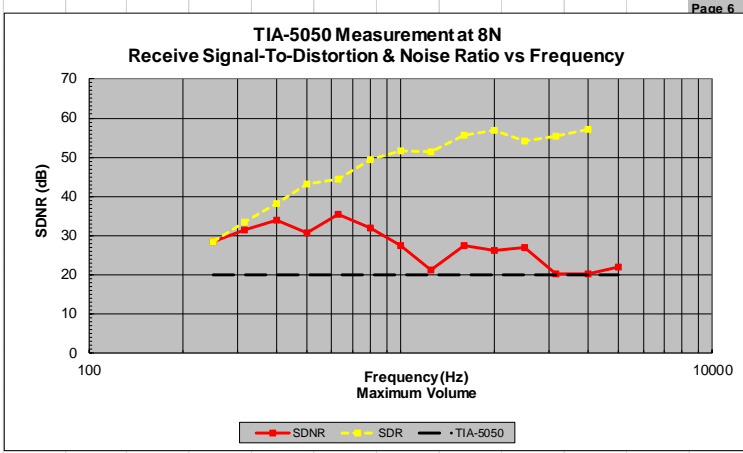
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.37 dB	info only		
	Recv conversational gain 8N	24.37 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.16 dB	info only		
	Recv conversational gain 2N	21.16 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0 dB	Absolute Limits	PASS	

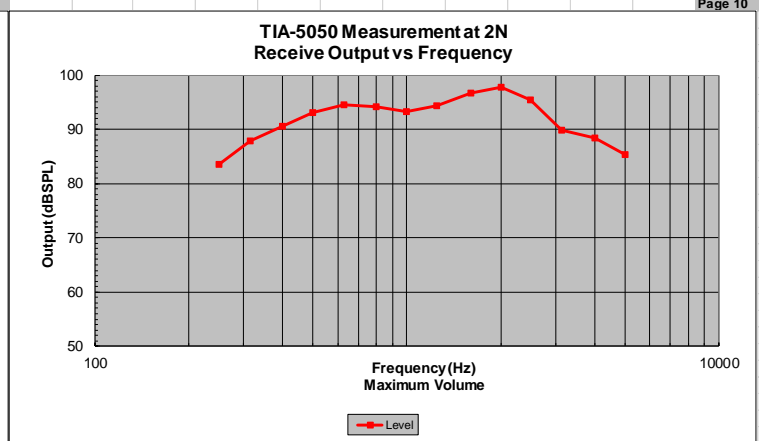
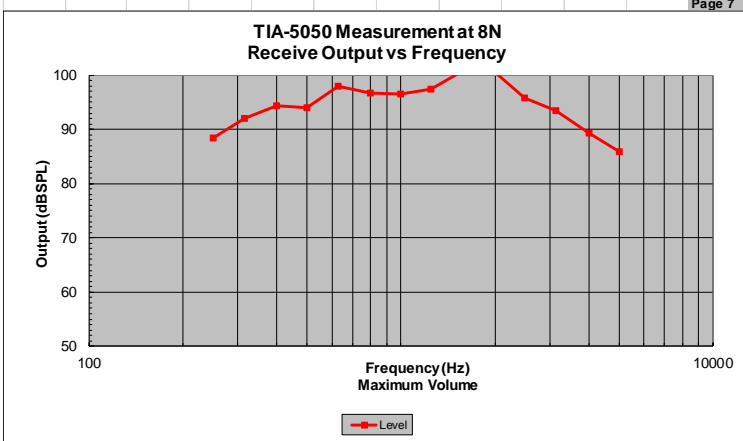
# LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 64QAM

## Distortion Report



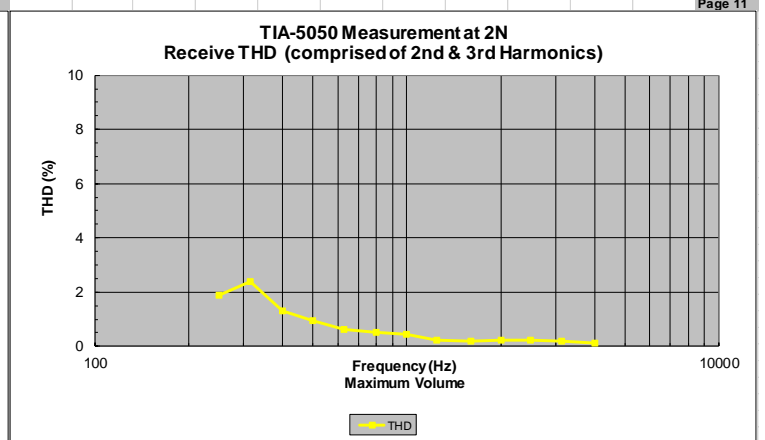
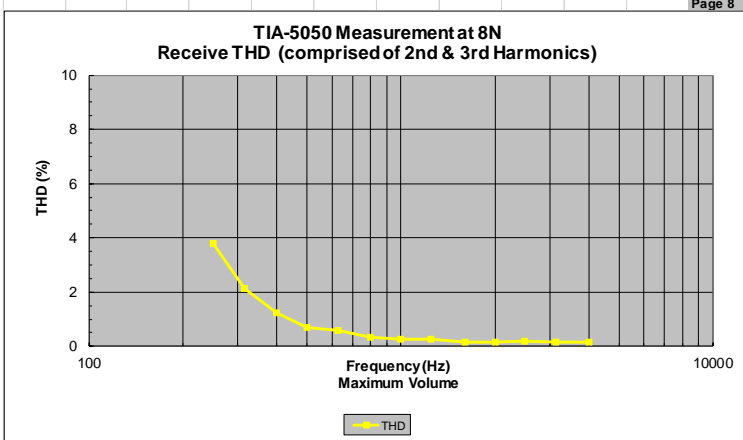
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	6/12/2024 16:16
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0 dB	Absolute Limits	PASS	6/12/2024 16:16
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/12/2024 16:16		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/12/2024 16:16		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/12/2024 16:16		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

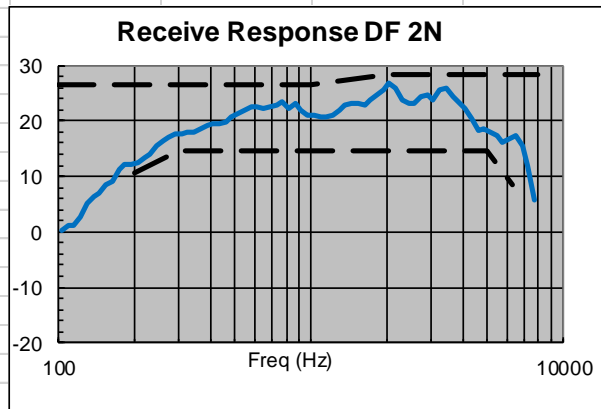
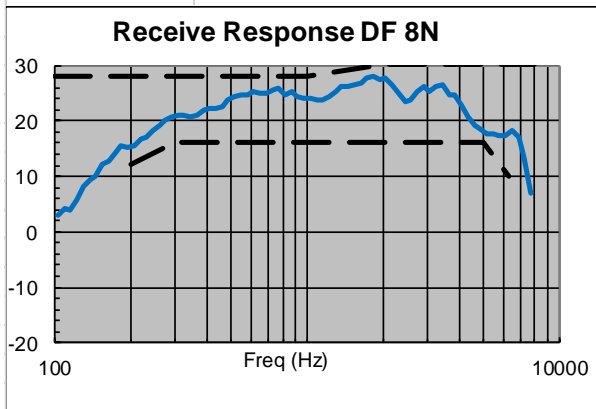
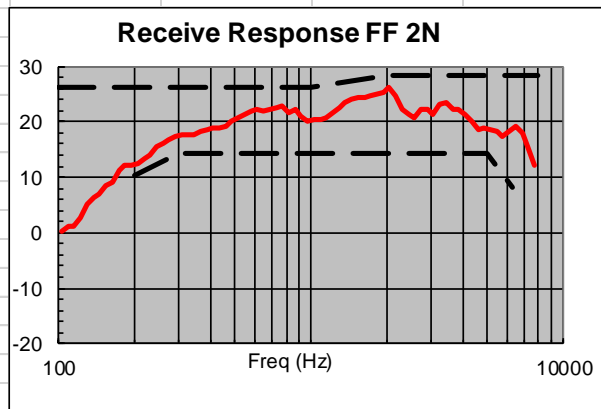
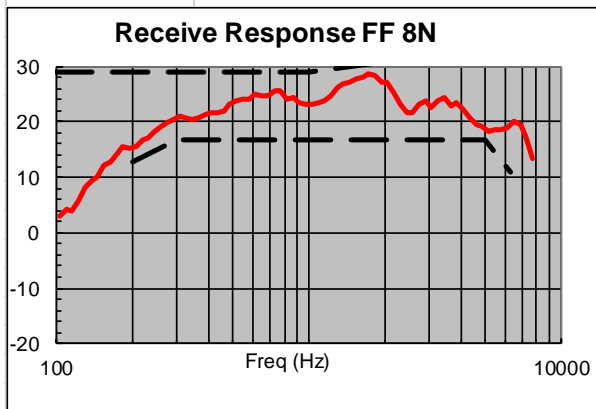
Test Date		
6/12/2024 16:16		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 256QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 256QAM EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.82 dB	Floating Limits	PASS	
	Recv resp DF 8N	2 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.94 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.7 dB	Floating Limits	PASS	



**Output**

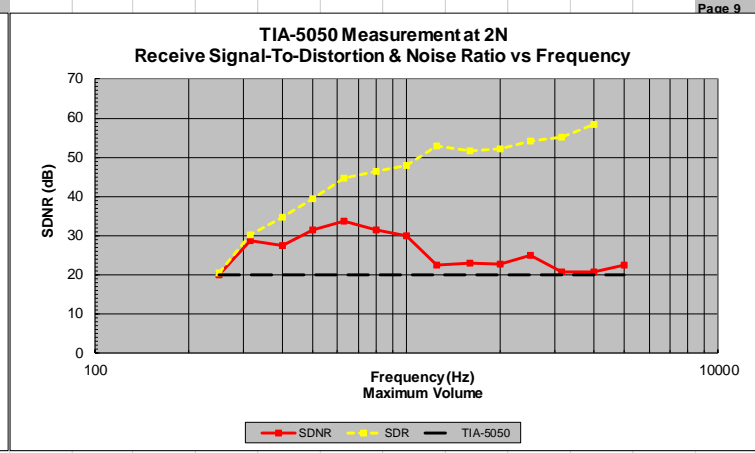
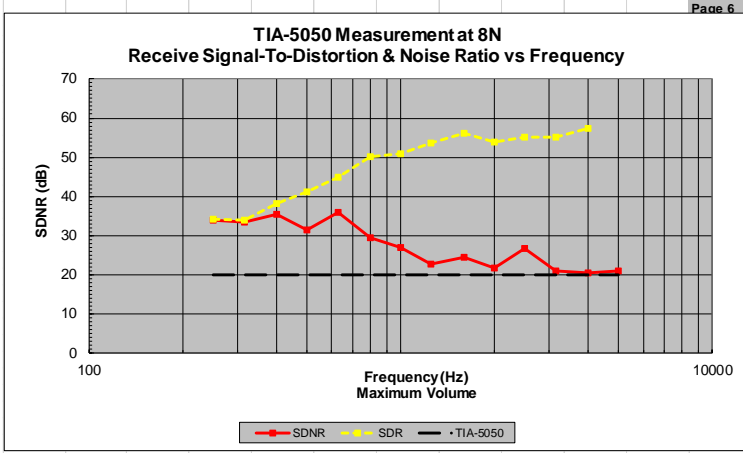
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.3 dB	info only		
	Recv conversational gain 8N	24.3 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.54 dB	info only		
	Recv conversational gain 2N	21.54 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.07 dB	Absolute Limits	PASS	

# LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 256QAM

## Distortion Report

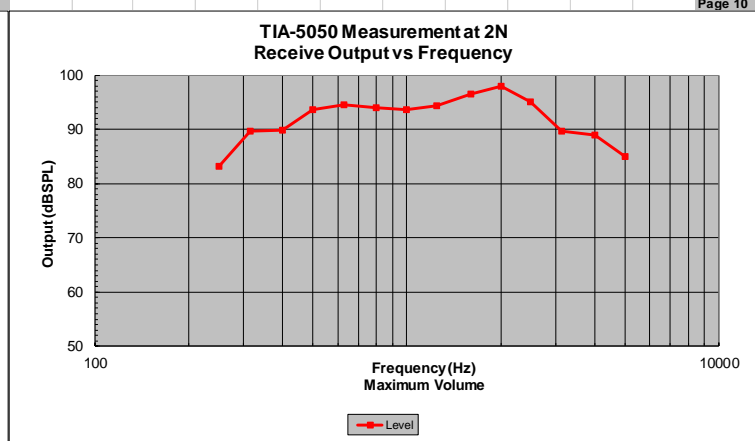
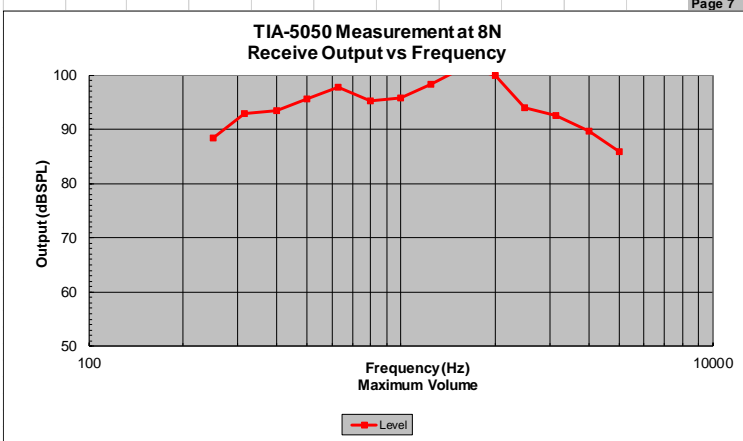


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	6/12/2024 16:44
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa

Comments: 24.4 kbps

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.07 dB	Absolute Limits	PASS	6/12/2024 16:44
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa

Comments: 24.4 kbps

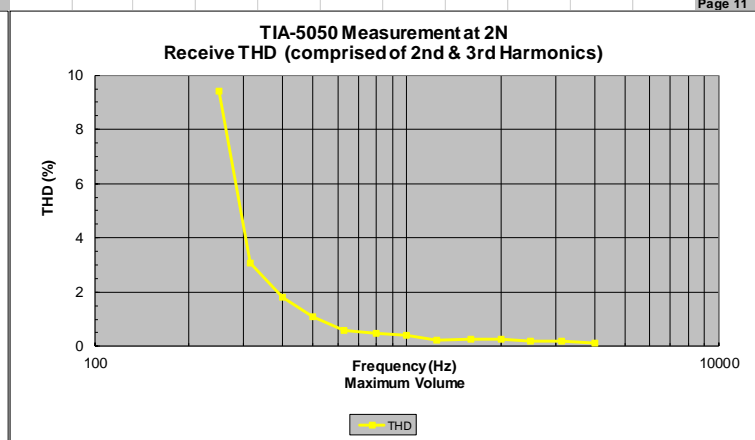
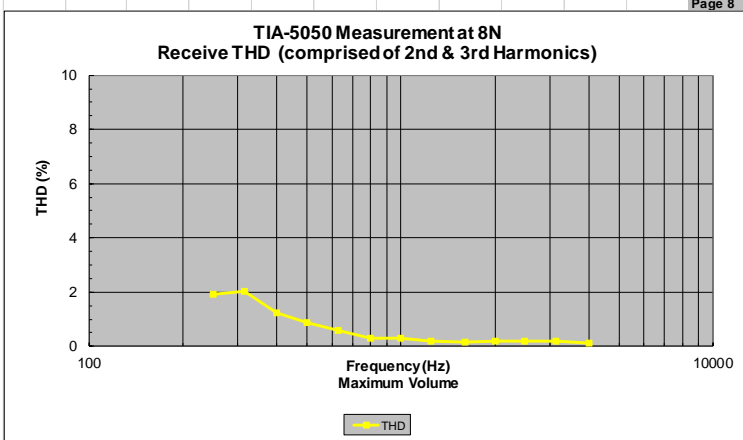


Test Date	
6/12/2024 16:44	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Test Date	
6/12/2024 16:44	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps



Test Date	
6/12/2024 16:44	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

Comments: 24.4 kbps

Test Date	
6/12/2024 16:44	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa

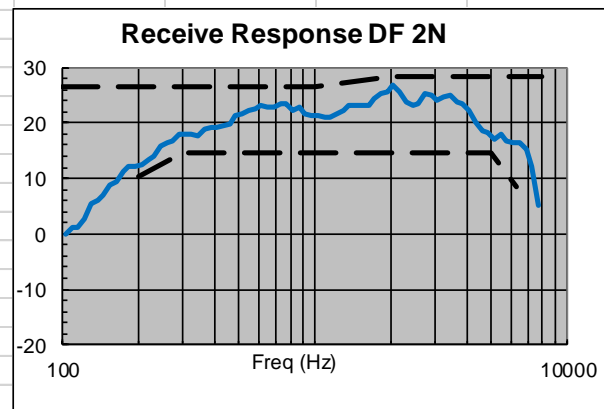
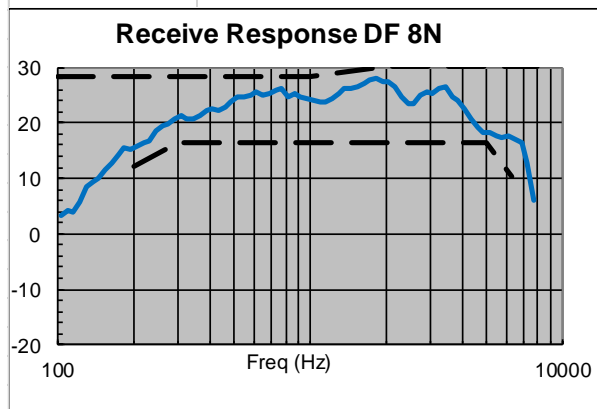
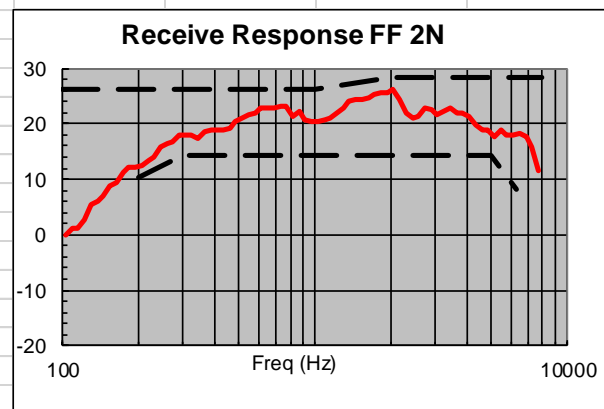
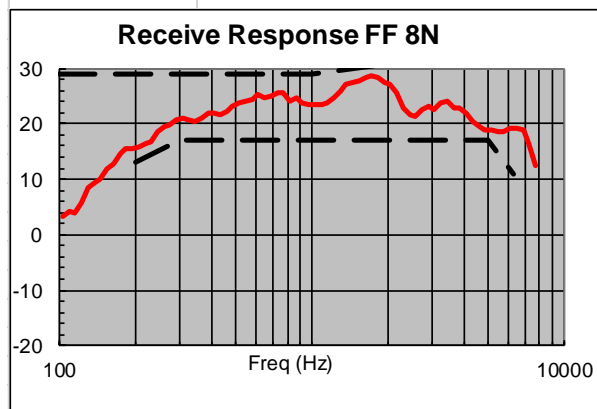
Comments: 24.4 kbps

**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 1.4 MHz**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 1.4BW EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.89 dB	Floating Limits	PASS	
	Recv resp DF 8N	2 dB	Floating Limits	PASS	
	Recv resp FF 2N	2 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.7 dB	Floating Limits	PASS	



**Output**

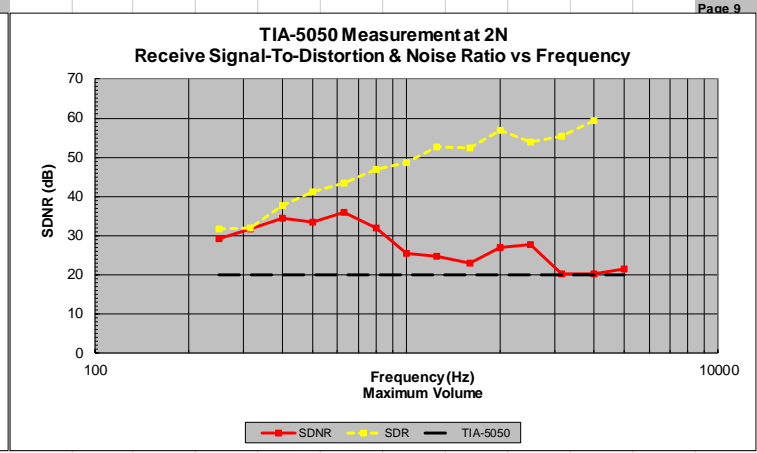
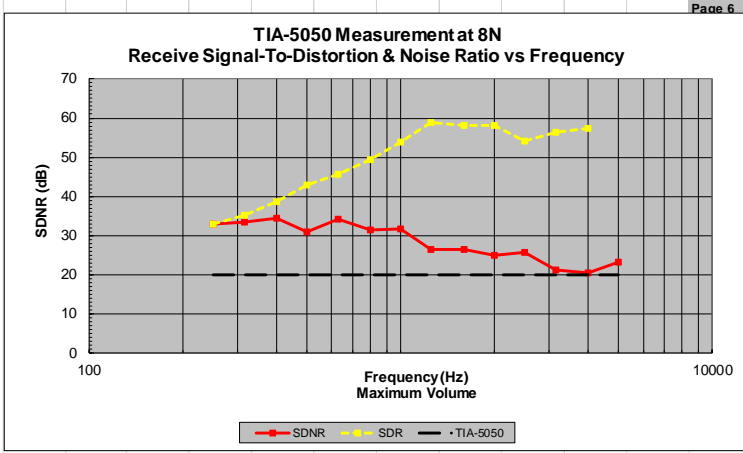
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.41 dB	info only		
	Recv conversational gain 8N	24.41 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.77 dB	info only		
	Recv conversational gain 2N	21.77 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.17 dB	Absolute Limits	PASS	

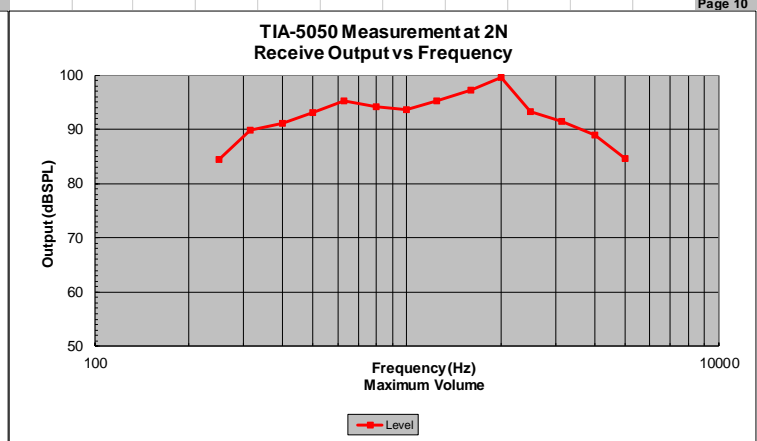
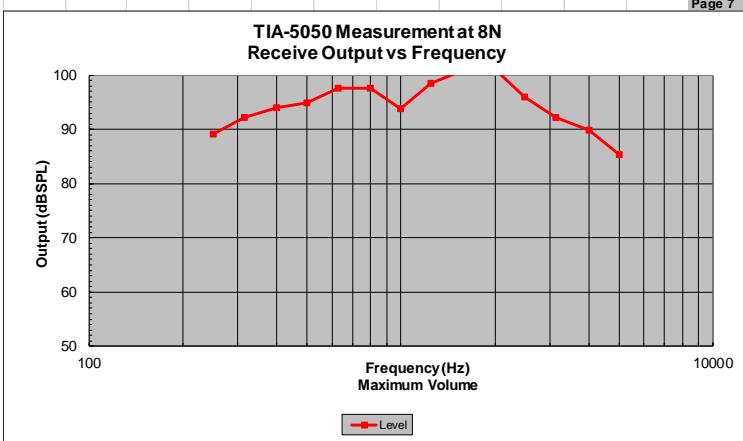
# LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 1.4 MHz

## Distortion Report



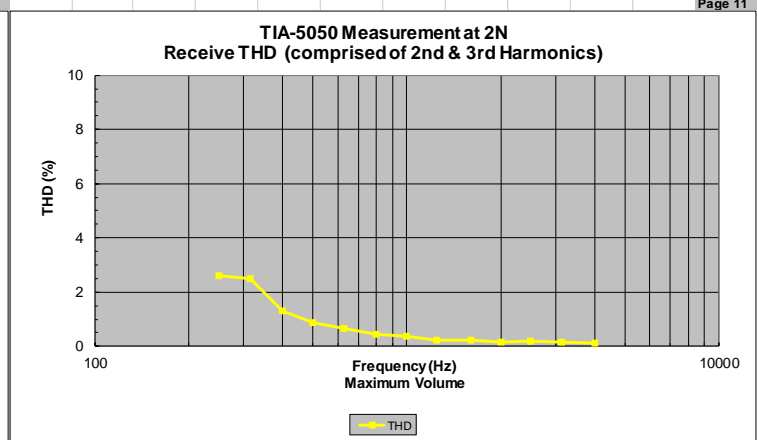
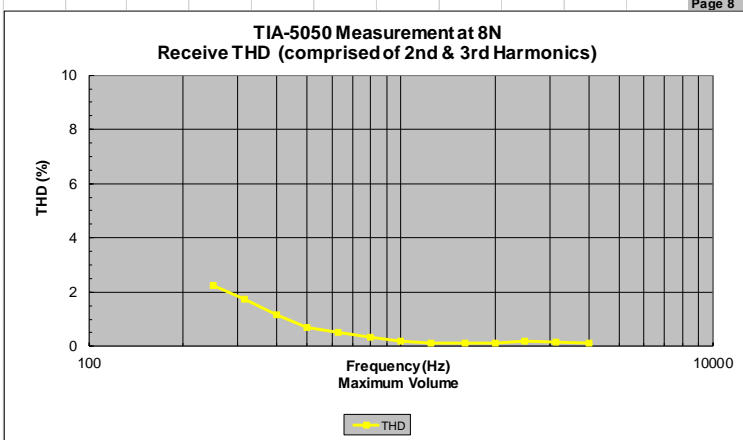
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	6/12/2024 18:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.17 dB	Absolute Limits	PASS	6/12/2024 18:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/12/2024 18:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 18:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/12/2024 18:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

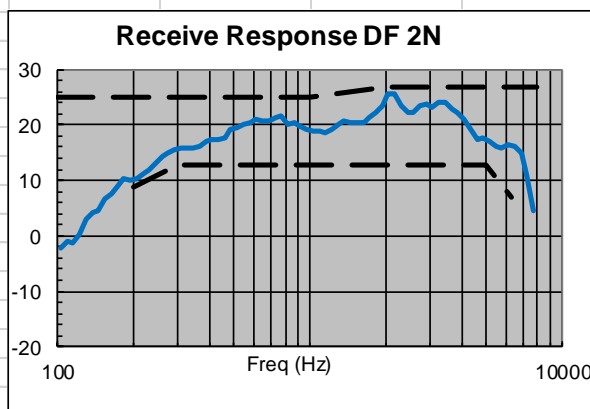
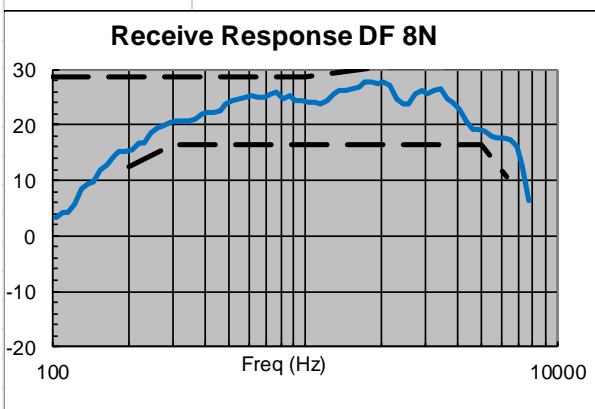
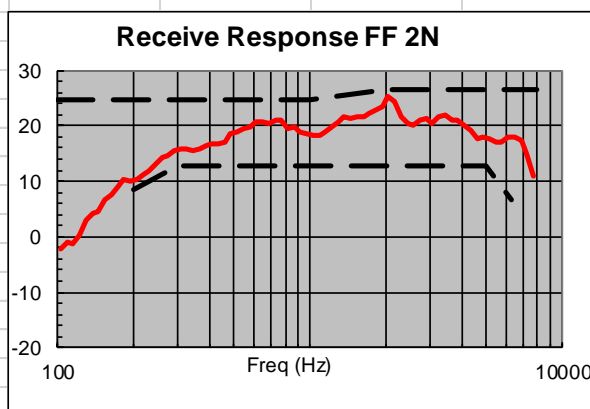
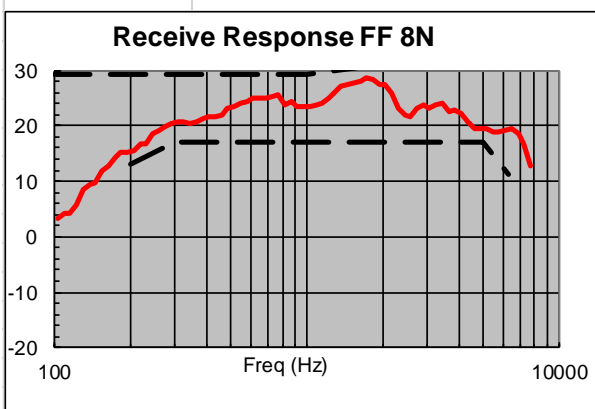
Test Date	
6/12/2024 18:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**LTE Band 7 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B7 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.15 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.45 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



**Output**

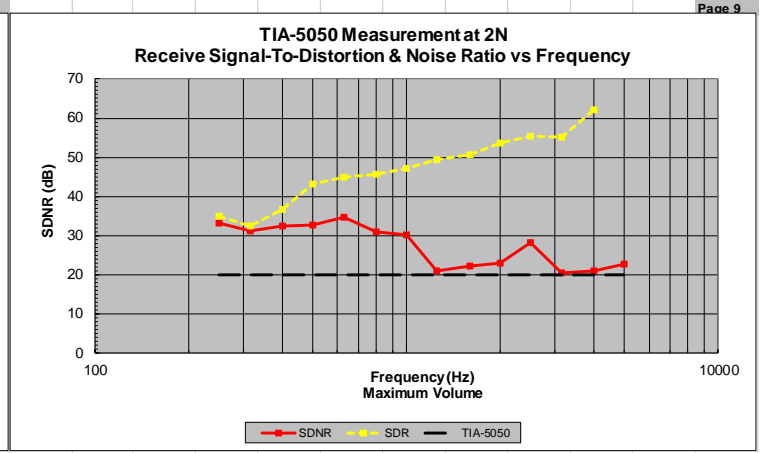
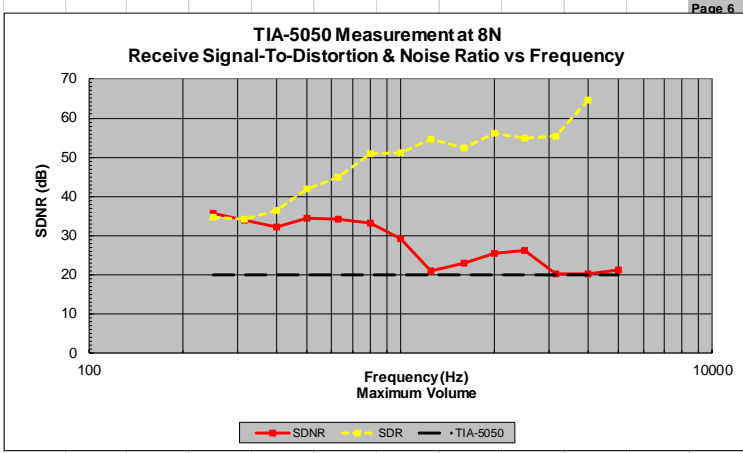
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.36 dB	info only		
	Recv conversational gain 8N	24.36 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.64 dB	info only		
	Recv conversational gain 2N	19.64 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.49 dB	Absolute Limits	PASS	

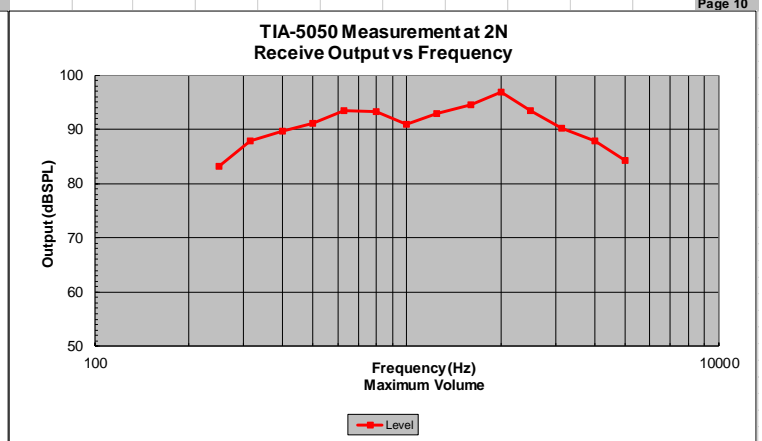
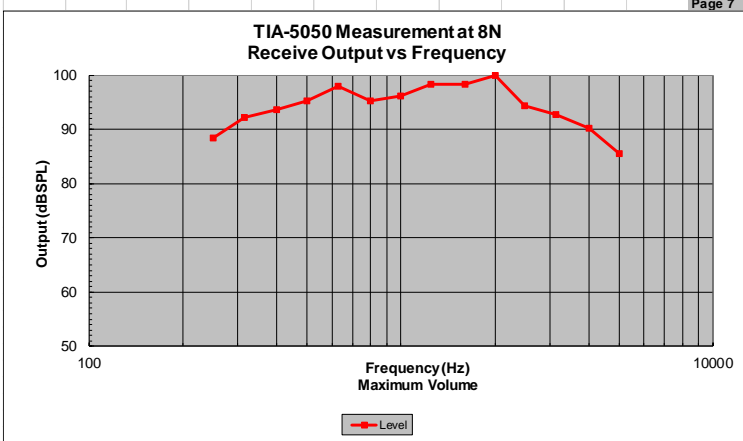
# LTE Band 7 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



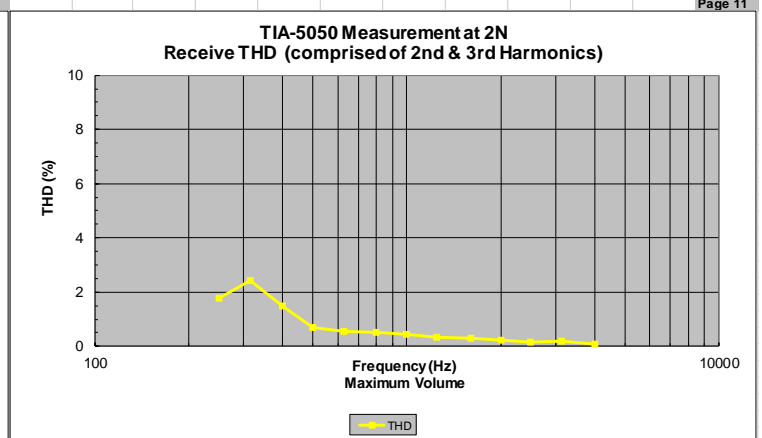
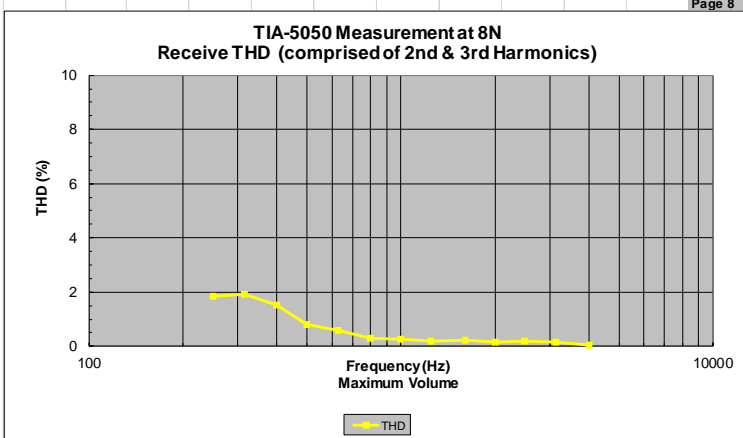
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	6/12/2024 19:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.49 dB	Absolute Limits	PASS	6/12/2024 19:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/12/2024 19:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 19:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/12/2024 19:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 19:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

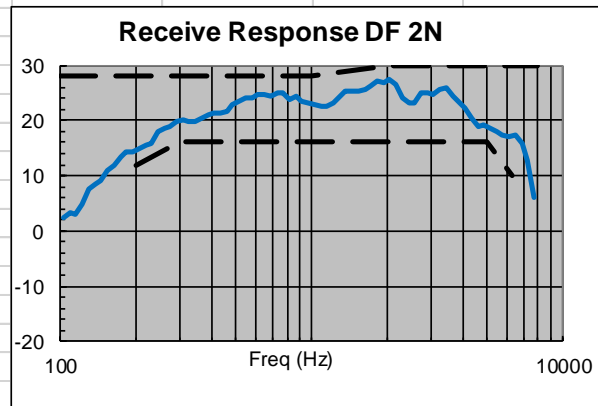
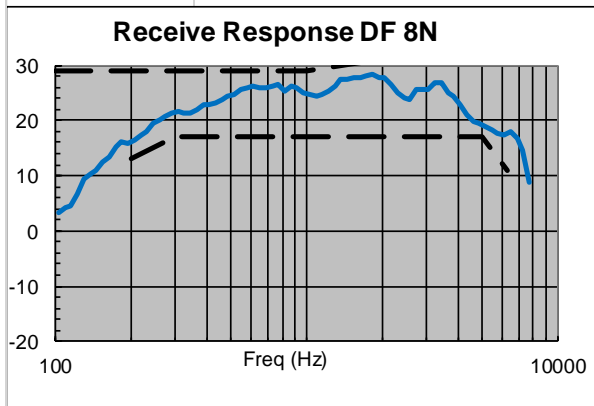
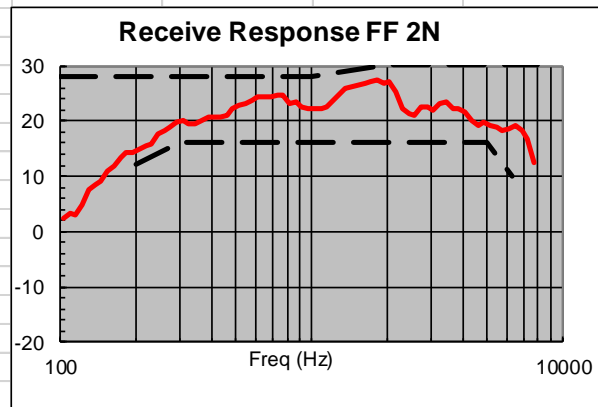
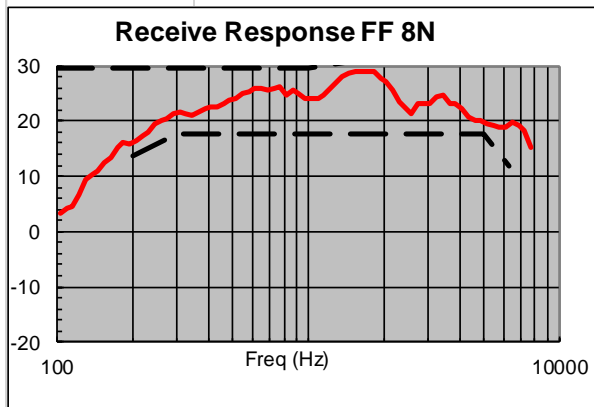


**LTE Band 12 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B12 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.12 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.31 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.5 dB	Floating Limits	PASS	



**Output**

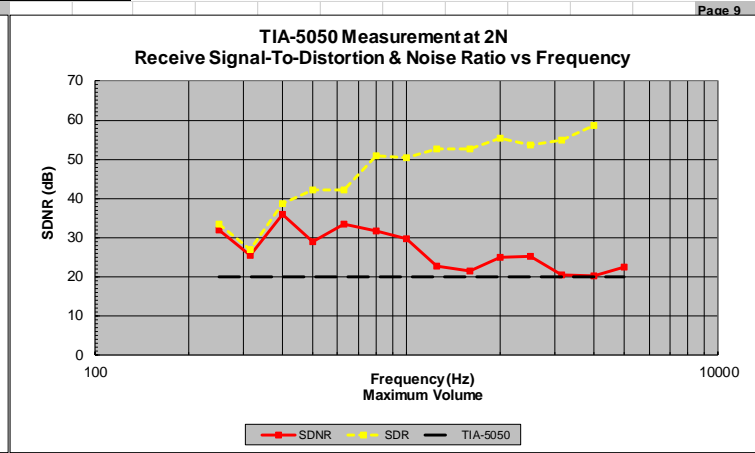
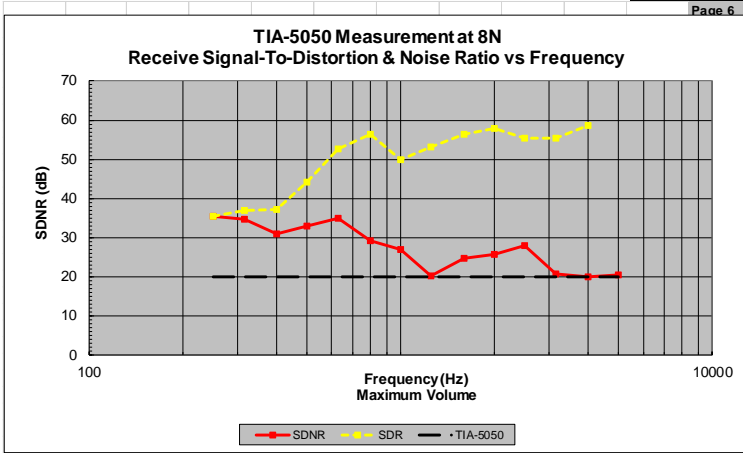
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.13 dB	info only		
	Recv conversational gain 8N	25.13 dB	18.00	PASS	
	Recv output level dBSPL 2N	93.48 dB	info only		
	Recv conversational gain 2N	23.48 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.3 dB	Absolute Limits	PASS	

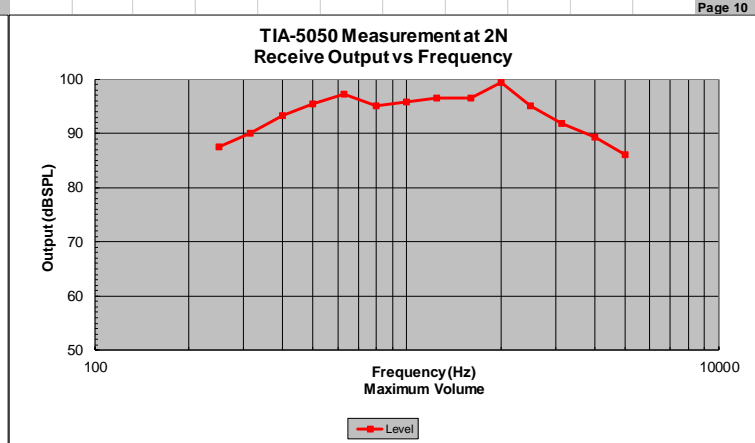
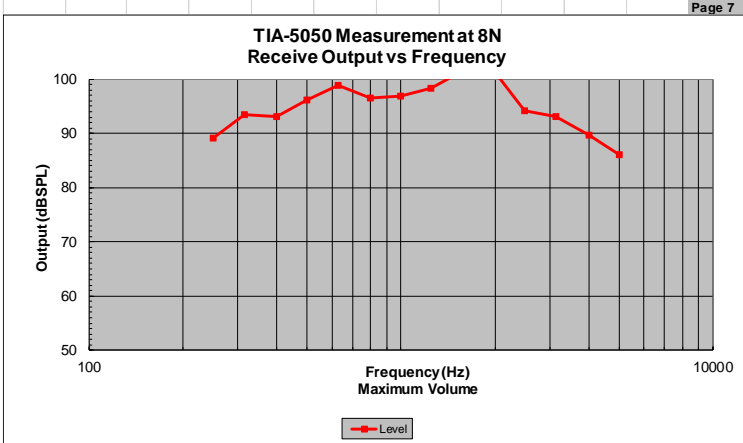
# LTE Band 12 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



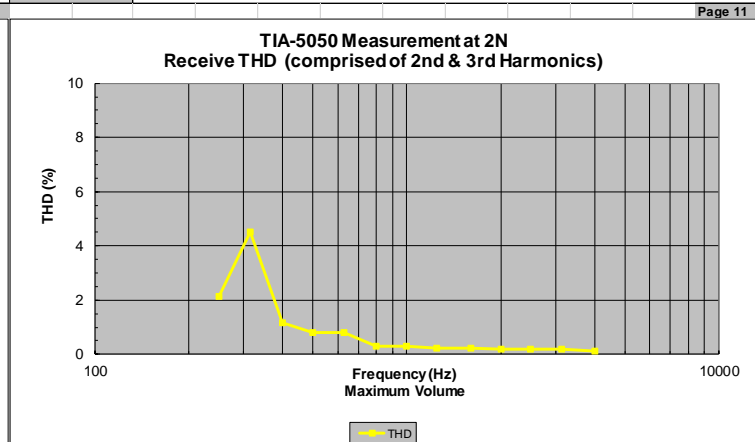
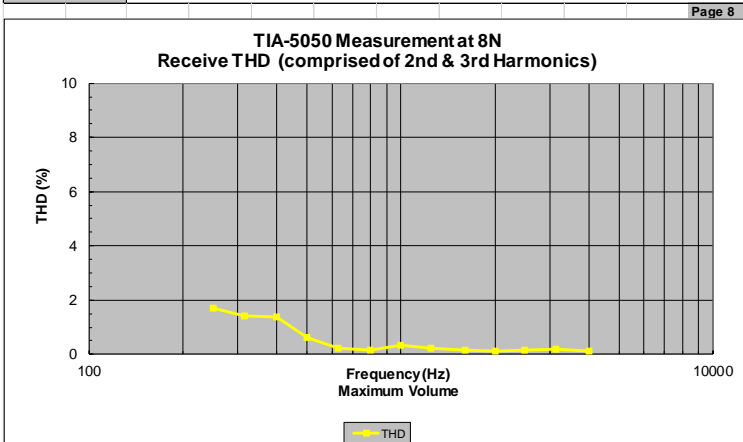
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/13/2024 1:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.3 dB	Absolute Limits	PASS	6/13/2024 1:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/13/2024 1:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 1:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/13/2024 1:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 1:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

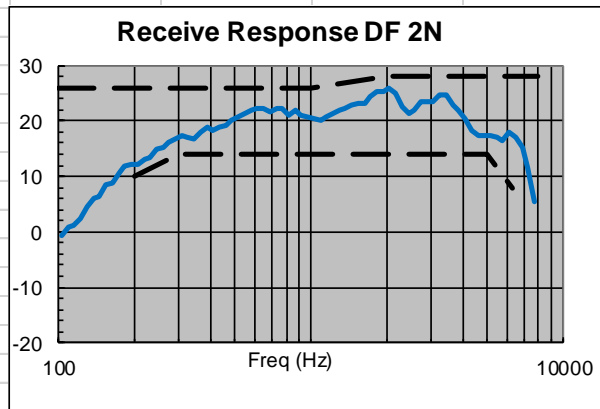
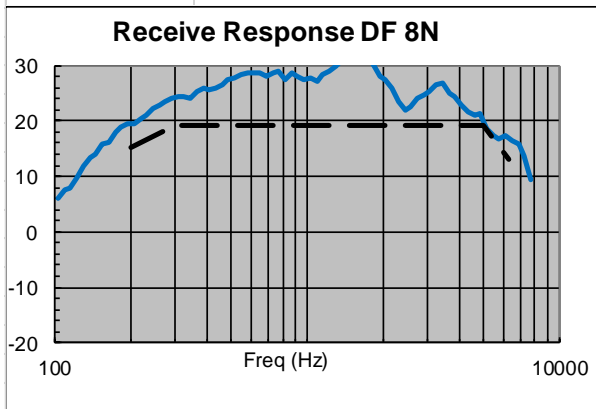
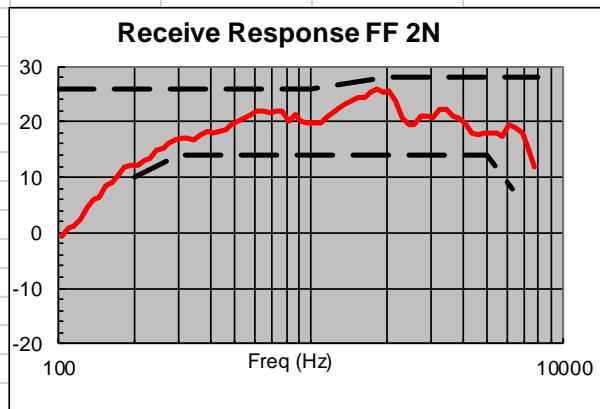
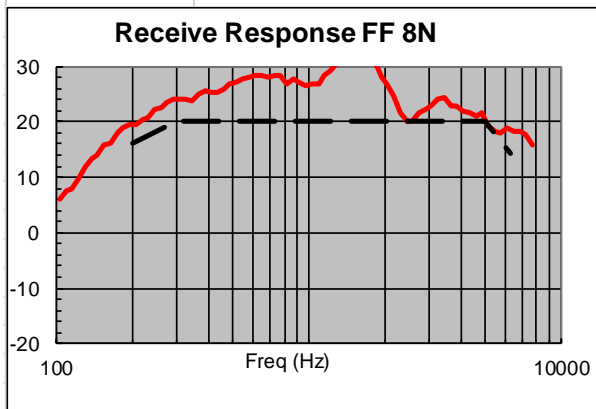
**LTE Band 13 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B13 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.19 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.93 dB	Floating Limits	PASS	
	Recv resp DF 2N	2 dB	Floating Limits	PASS	



**Output**

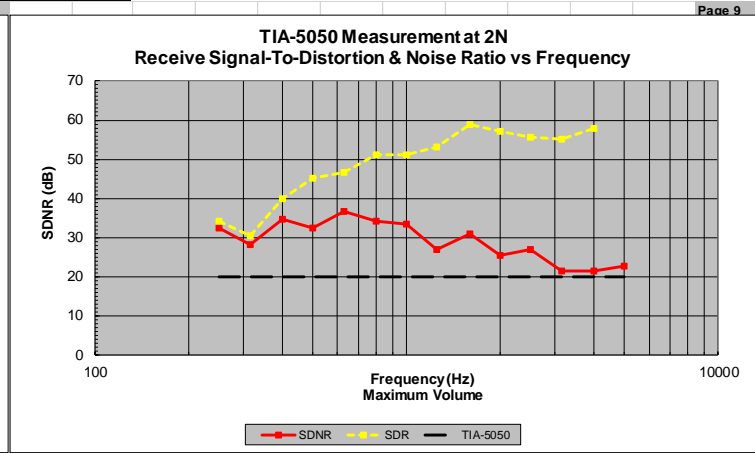
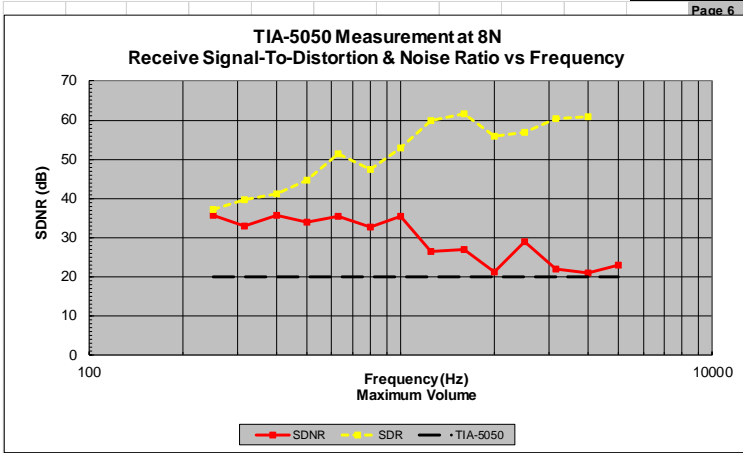
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	98.01 dB	info only		
	Recv conversational gain 8N	28.01 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.04 dB	info only		
	Recv conversational gain 2N	21.04 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.43 dB	Absolute Limits	PASS	

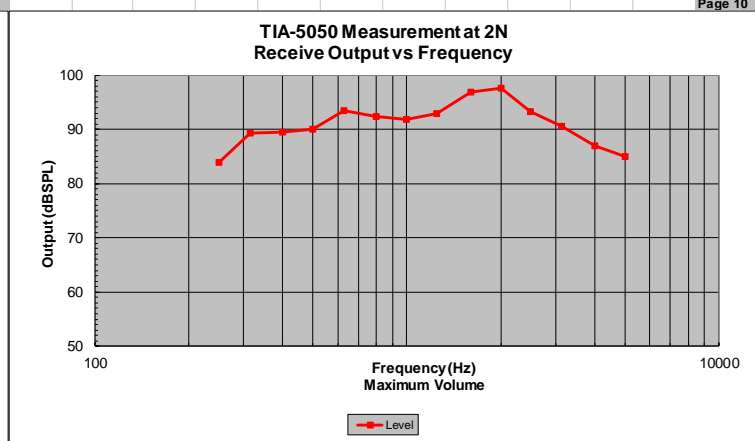
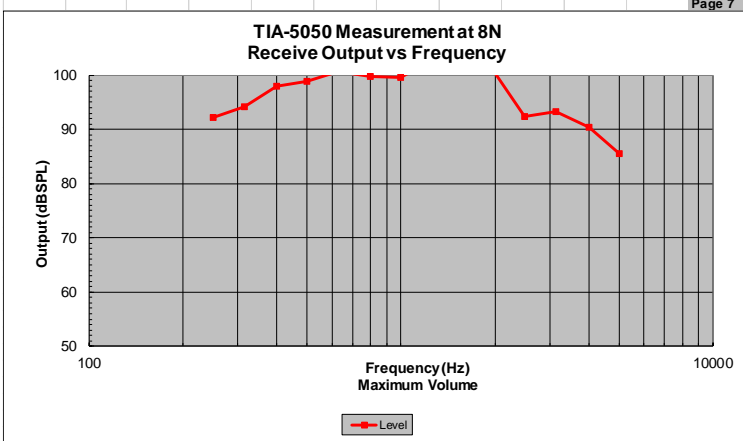
# LTE Band 13 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



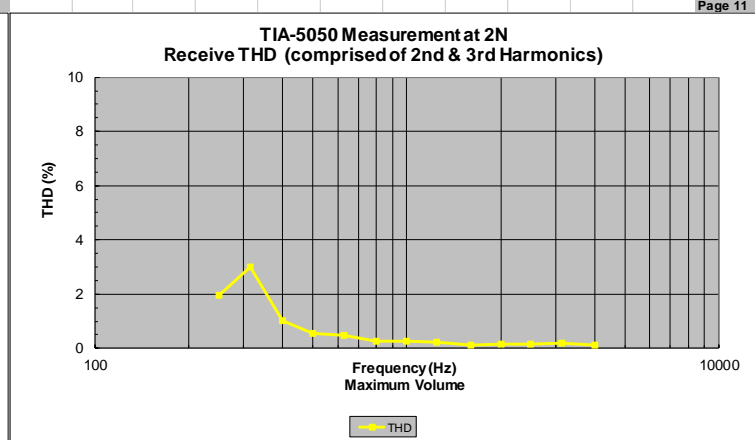
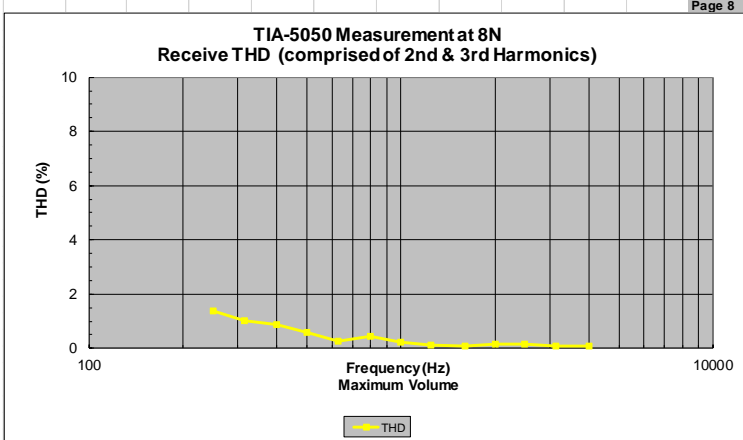
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	6/13/2024 12:02
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.43 dB	Absolute Limits	PASS	6/13/2024 12:02
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 12:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 12:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 12:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 12:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

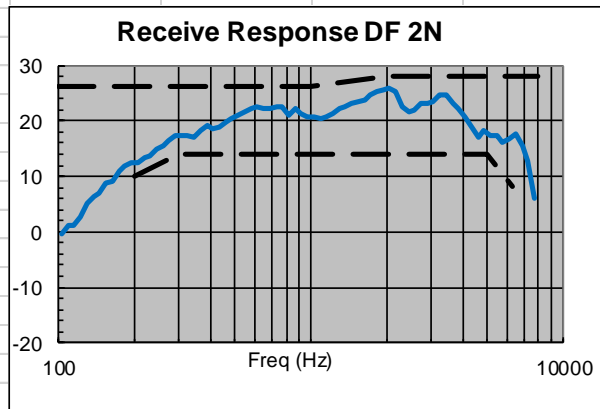
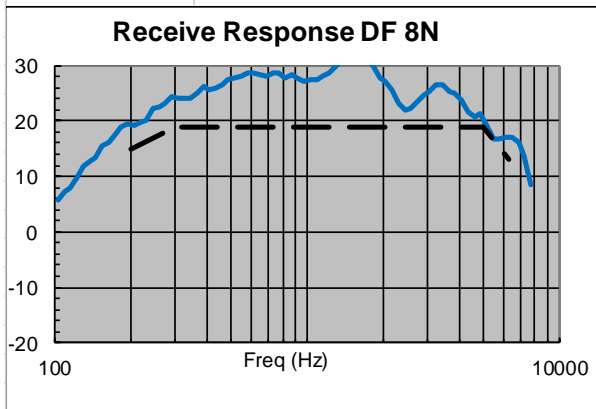
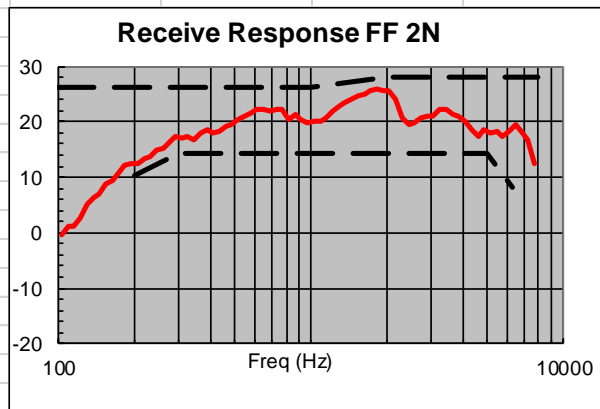
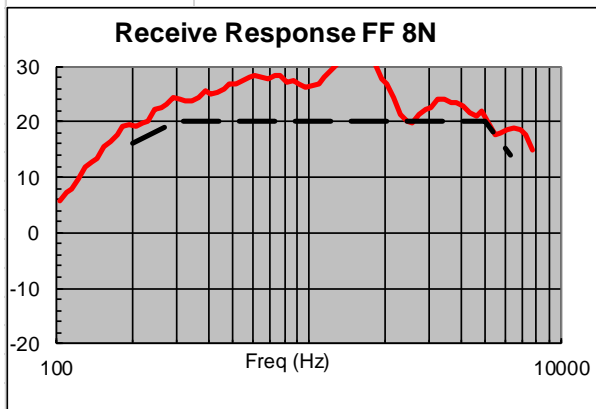
**LTE Band 14 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B14 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.14 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.03 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.1 dB	Floating Limits	PASS	



**Output**

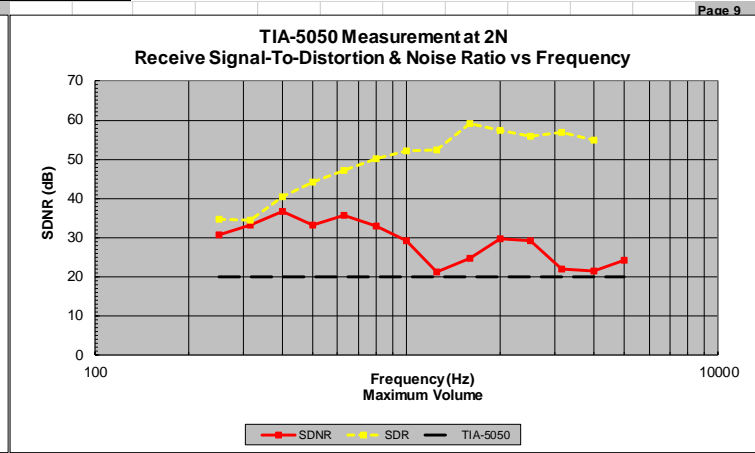
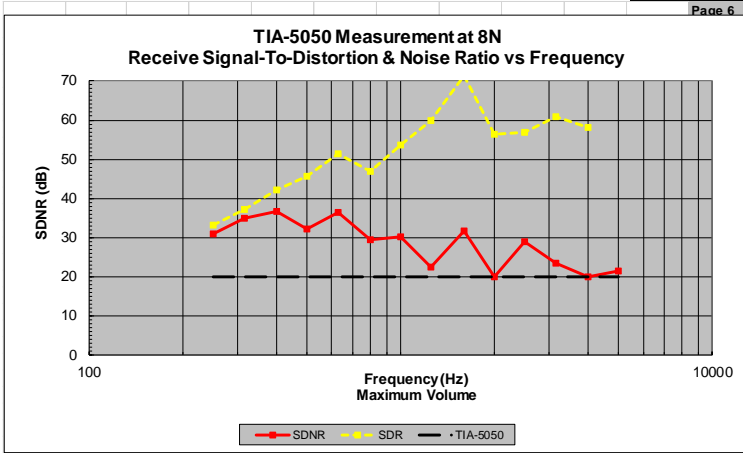
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.89 dB	info only		
	Recv conversational gain 8N	27.89 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.29 dB	info only		
	Recv conversational gain 2N	21.29 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.14 dB	Absolute Limits	PASS	

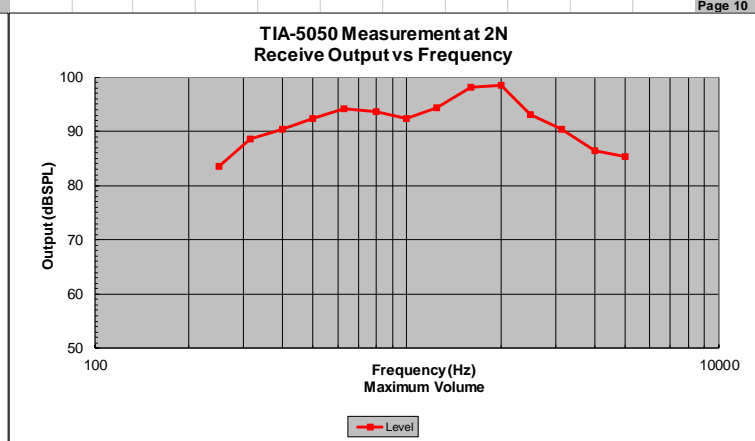
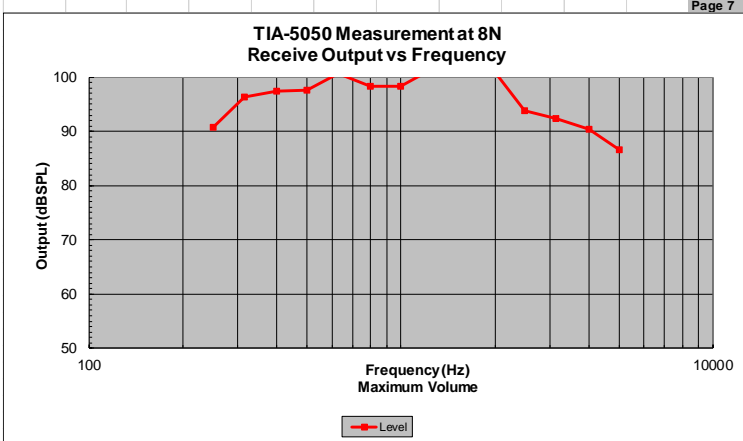
# LTE Band 14 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



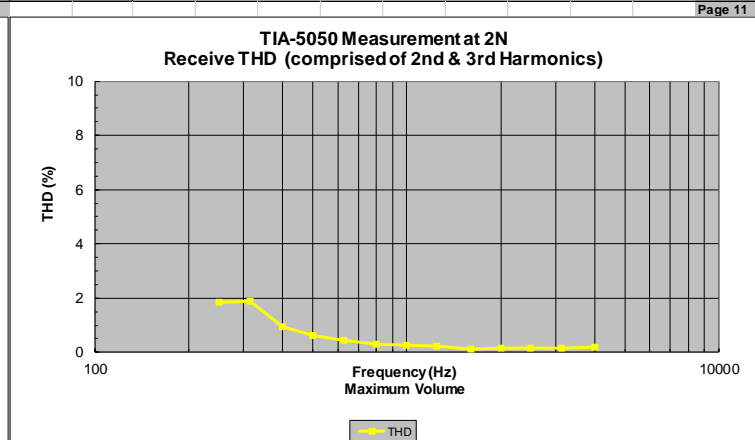
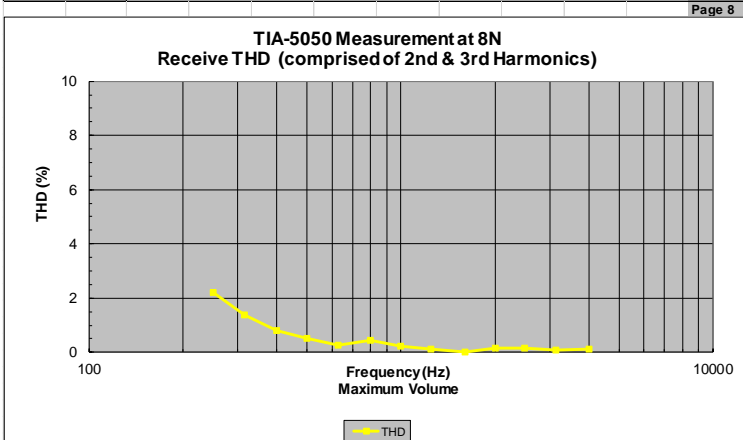
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/13/2024 12:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.14 dB	Absolute Limits	PASS	6/13/2024 12:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 12:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 12:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 12:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 12:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

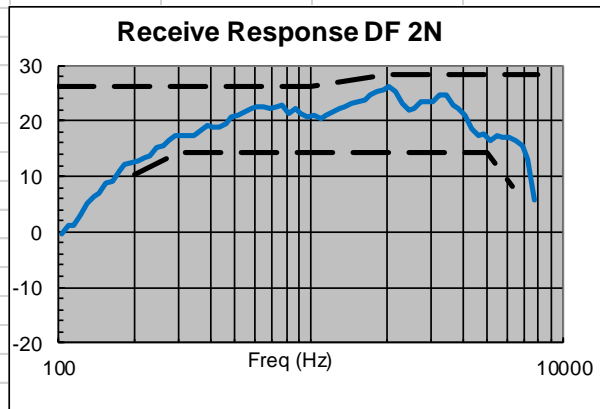
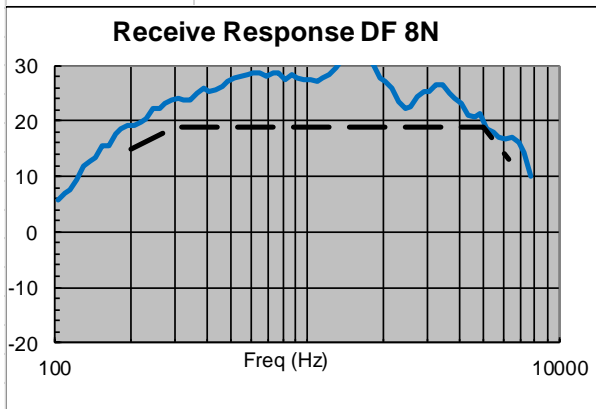
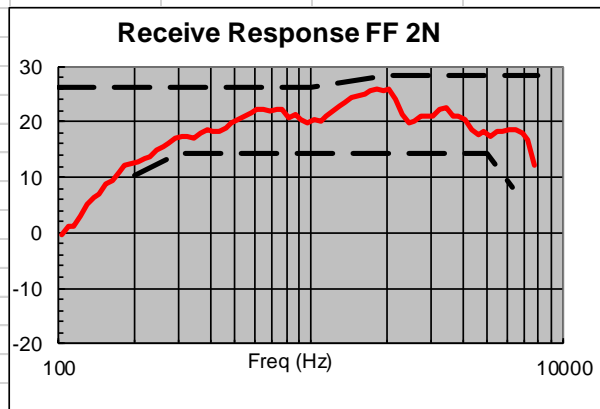
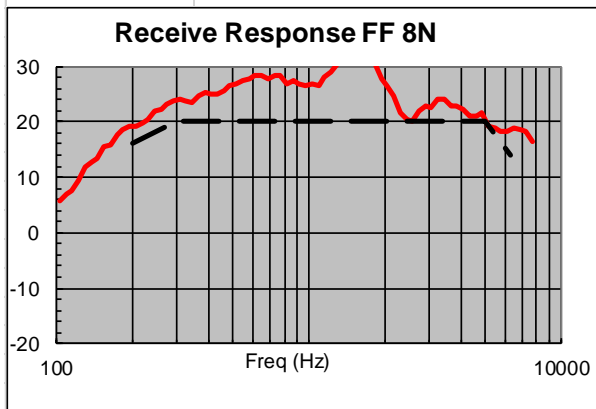
**LTE Band 26 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B26 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.12 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.09 dB	Floating Limits	PASS	
	Recv resp DF 2N	2 dB	Floating Limits	PASS	



**Output**

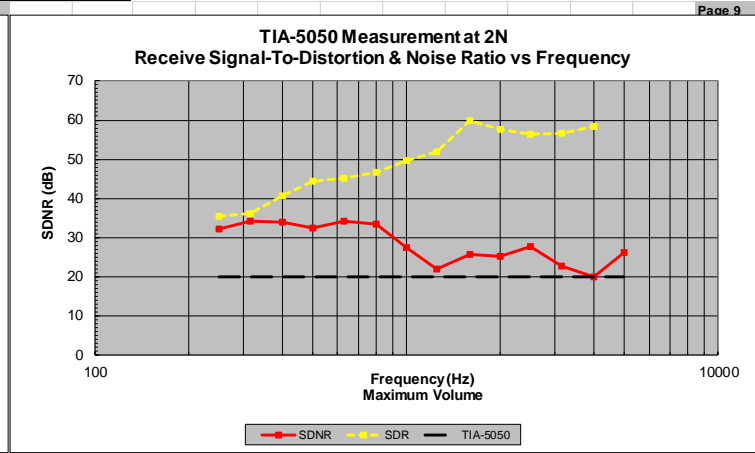
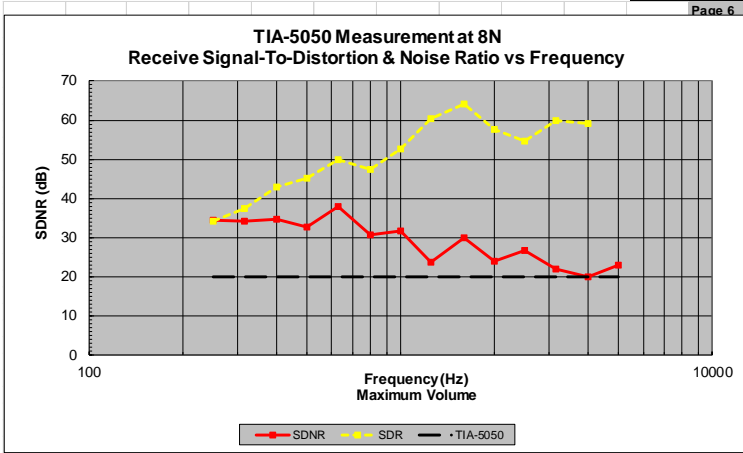
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.78 dB	info only		
	Recv conversational gain 8N	27.78 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.35 dB	info only		
	Recv conversational gain 2N	21.35 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.01 dB	Absolute Limits	PASS	

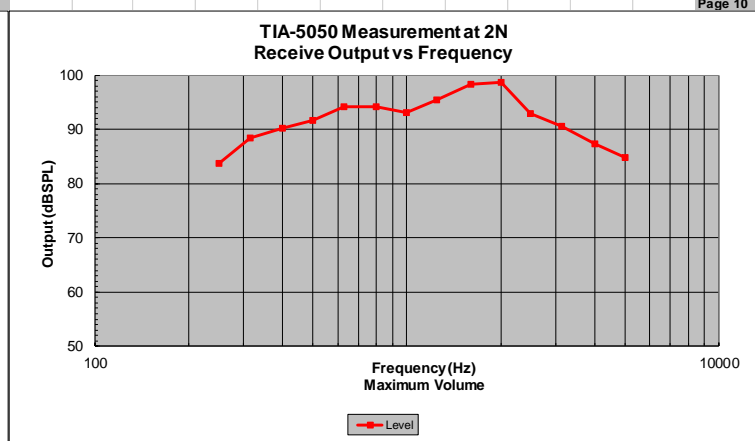
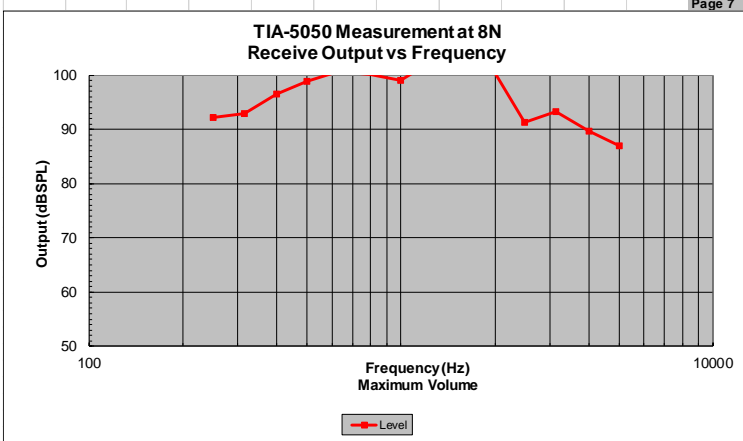
# LTE Band 26 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



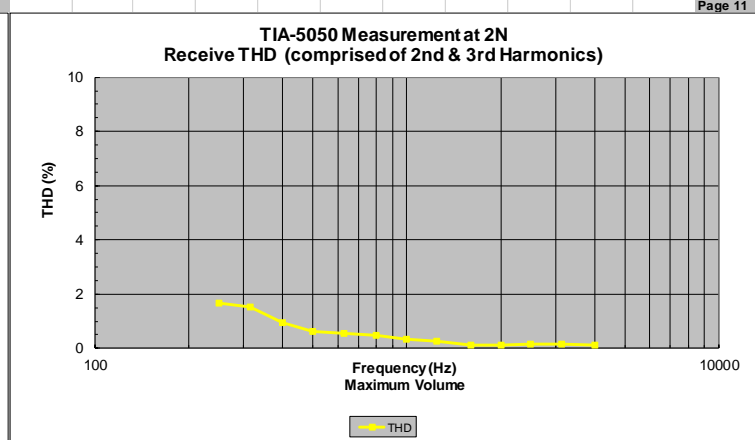
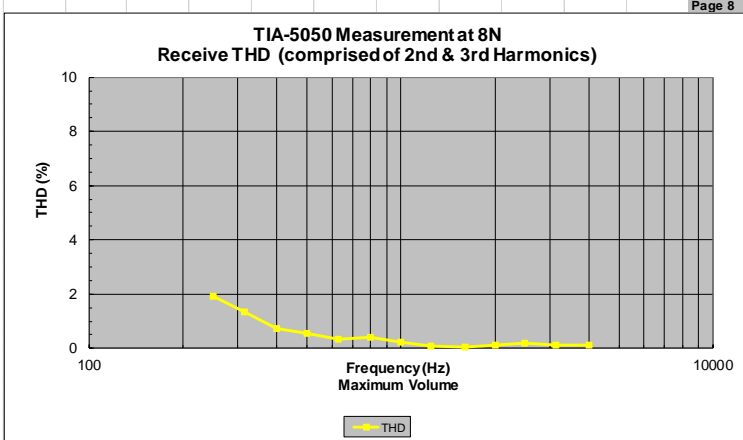
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/13/2024 12:24
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.01 dB	Absolute Limits	PASS	6/13/2024 12:24
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 12:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 12:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 12:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 12:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

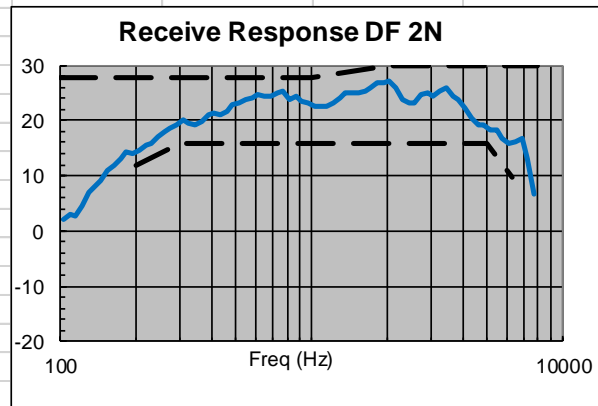
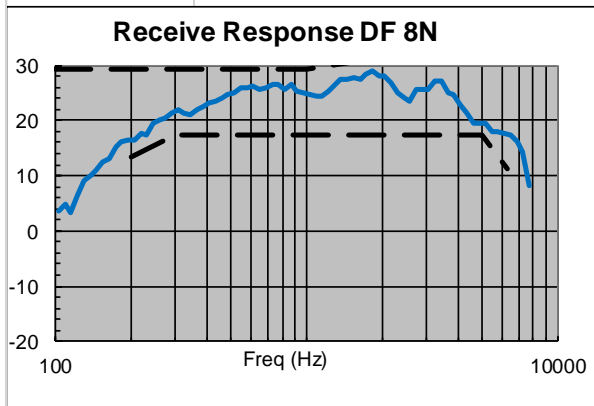
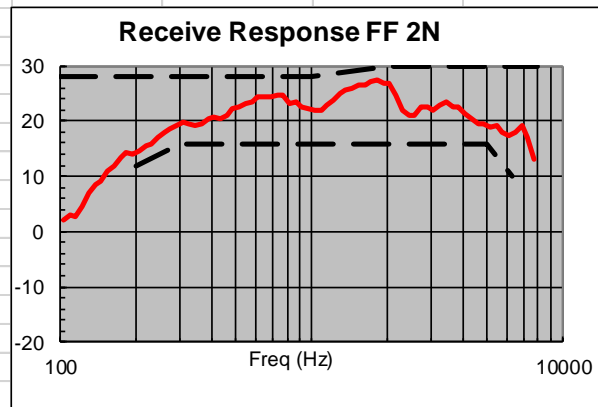
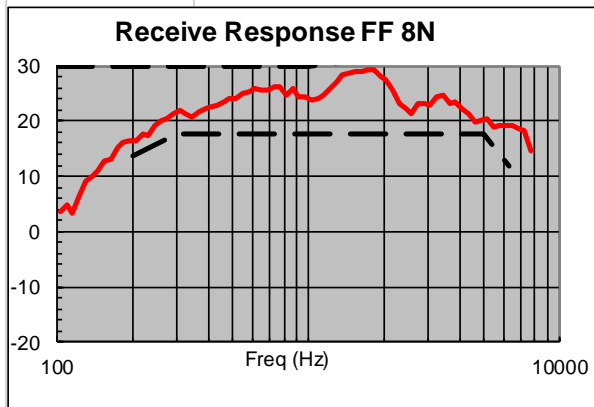


**LTE Band 30 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B30 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.95 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.37 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.5 dB	Floating Limits	PASS	



**Output**

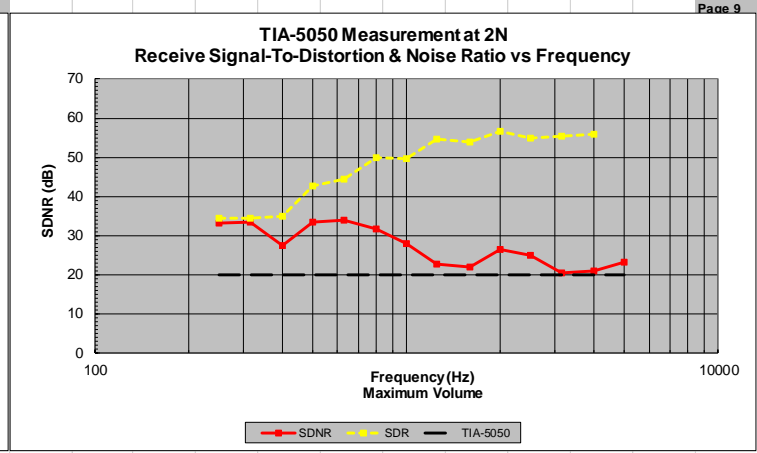
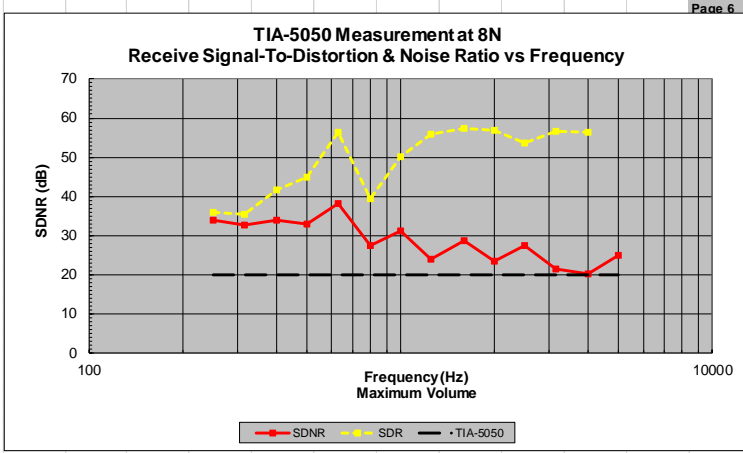
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.2 dB	info only		
	Recv conversational gain 8N	25.2 dB	18.00	PASS	
	Recv output level dBSPL 2N	93.34 dB	info only		
	Recv conversational gain 2N	23.34 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.57 dB	Absolute Limits	PASS	

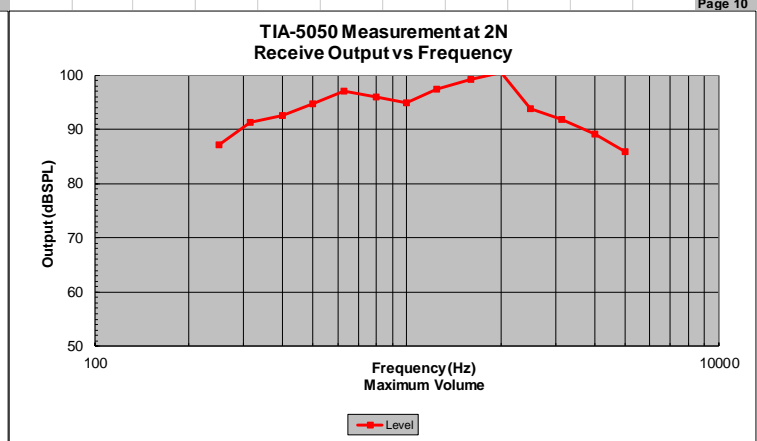
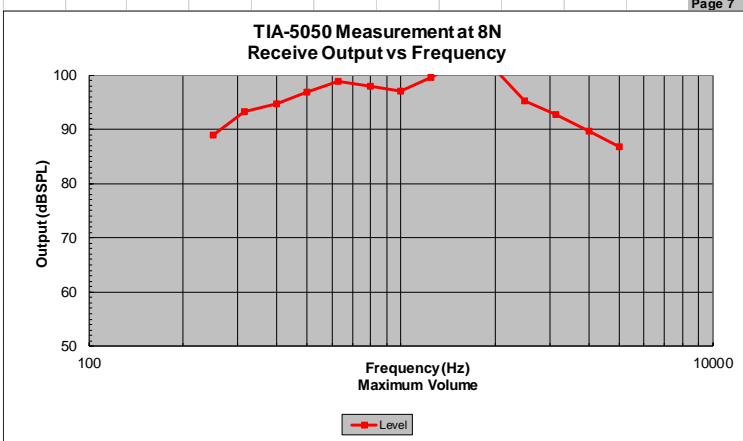
# LTE Band 30 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



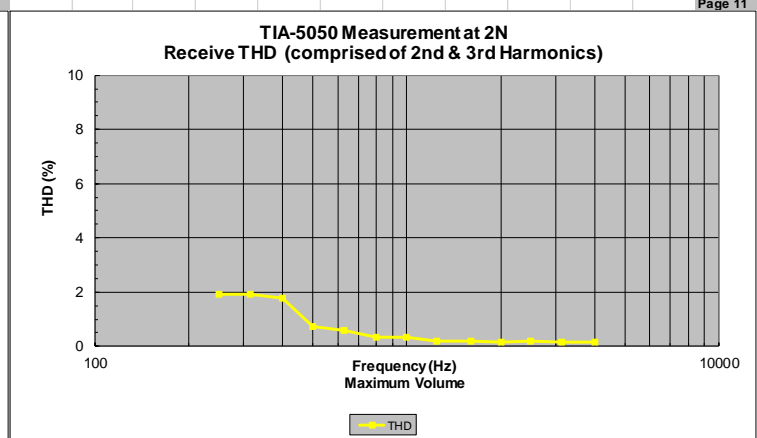
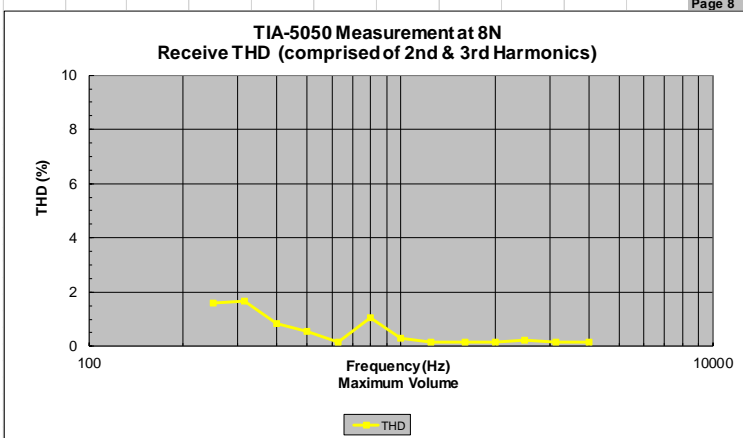
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	6/13/2024 0:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.57 dB	Absolute Limits	PASS	6/13/2024 0:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/13/2024 0:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 0:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/13/2024 0:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

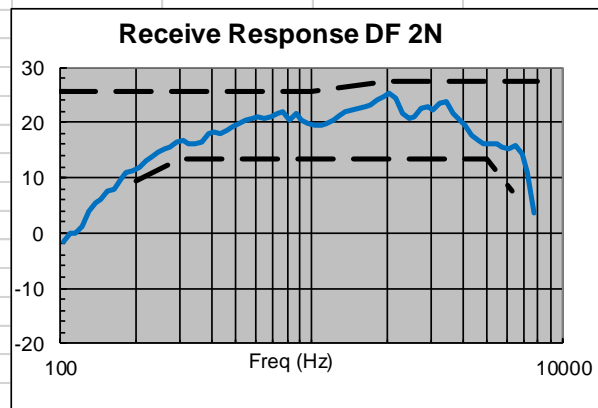
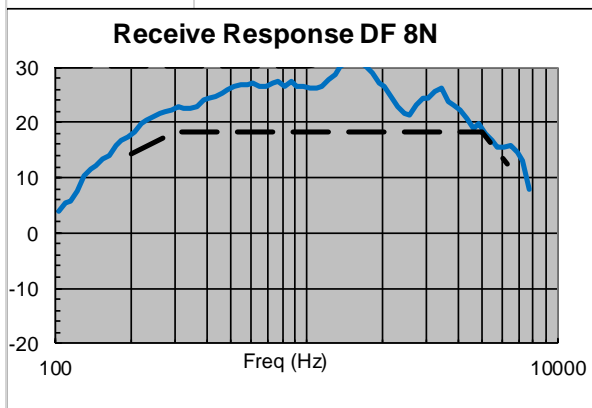
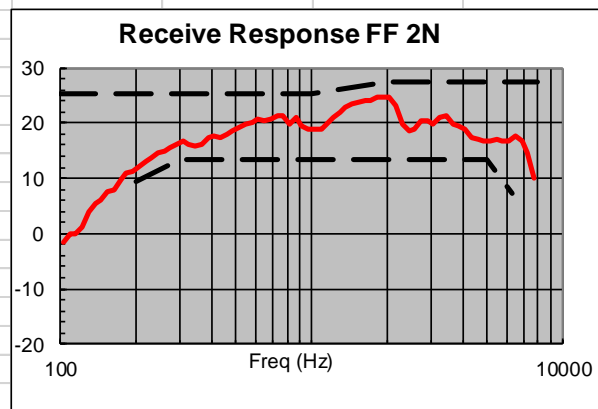
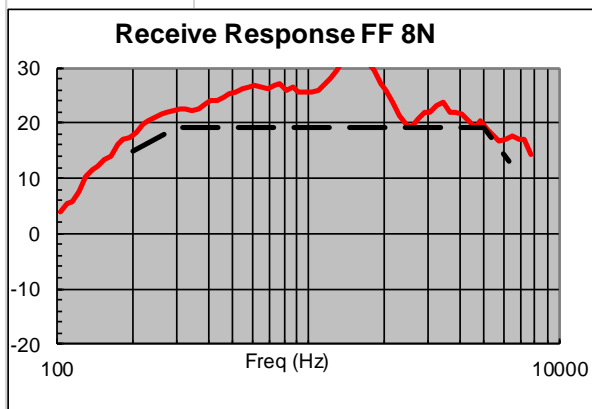
Test Date		
6/13/2024 0:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

**LTE Band 41 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B41 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.04 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.42 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.2 dB	Floating Limits	PASS	



**Output**

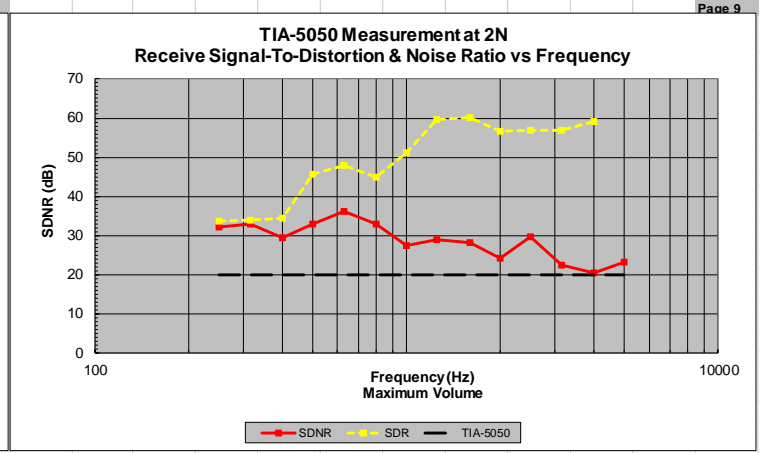
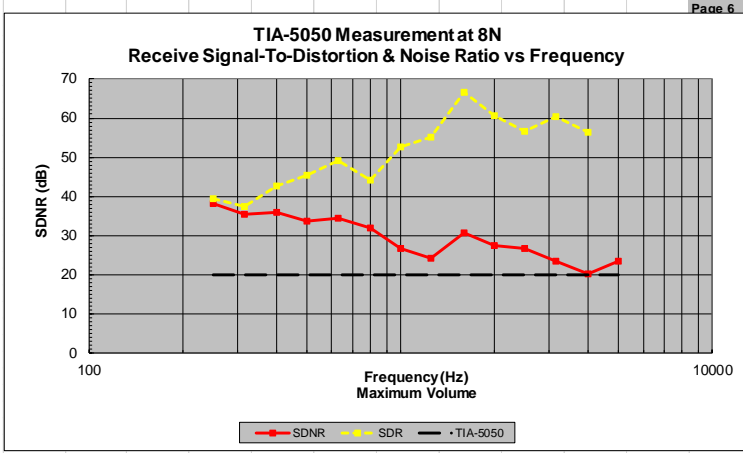
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	96.57 dB	info only		
	Recv conversational gain 8N	26.57 dB	18.00	PASS	
	Recv output level dBSPL 2N	90.2 dB	info only		
	Recv conversational gain 2N	20.2 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.58 dB	Absolute Limits	PASS	

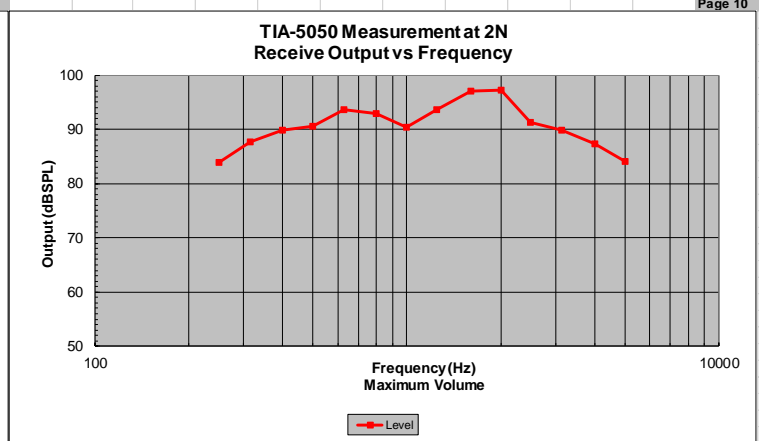
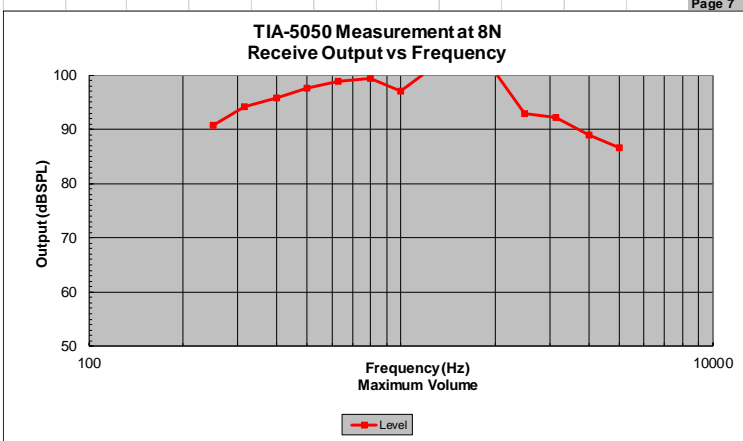
# LTE Band 41 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



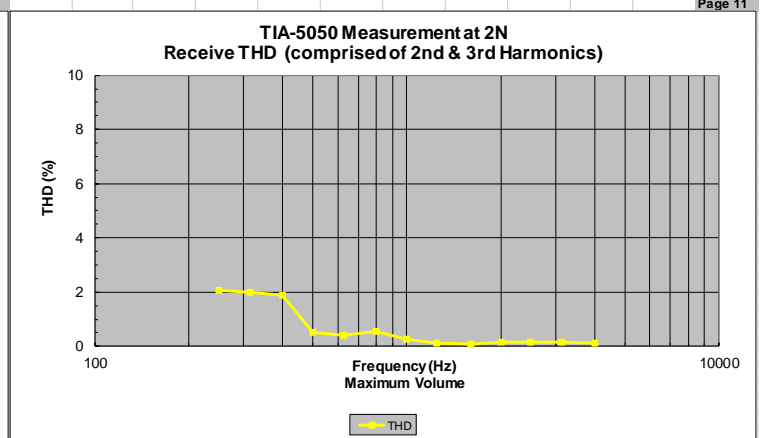
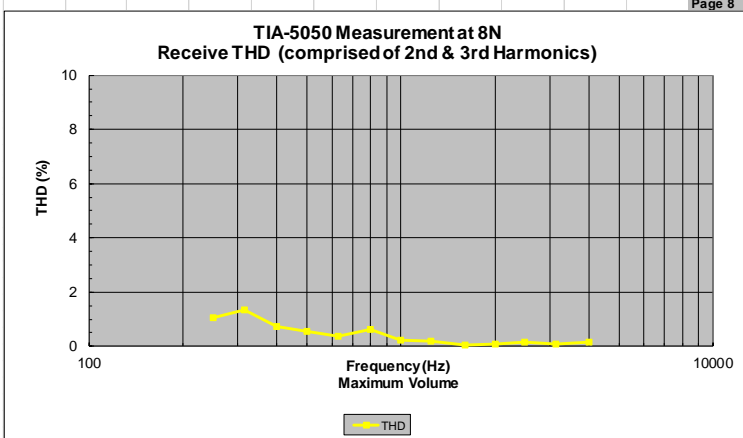
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/13/2024 7:05
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.58 dB	Absolute Limits	PASS	6/13/2024 7:05
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/13/2024 7:05		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 7:05		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/13/2024 7:05		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

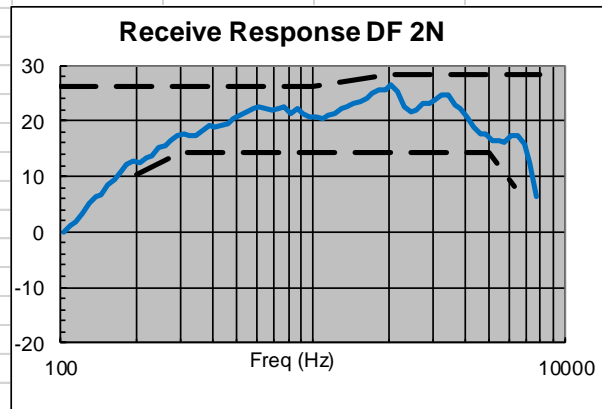
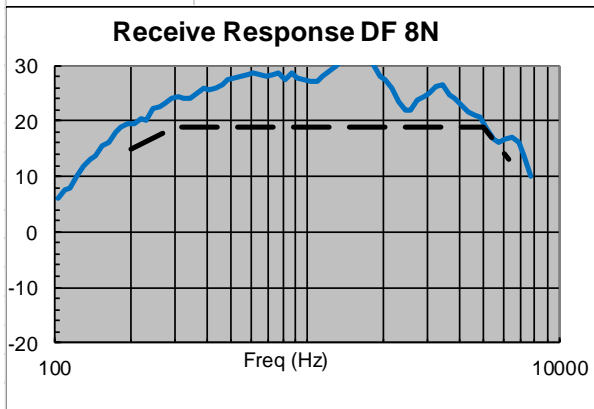
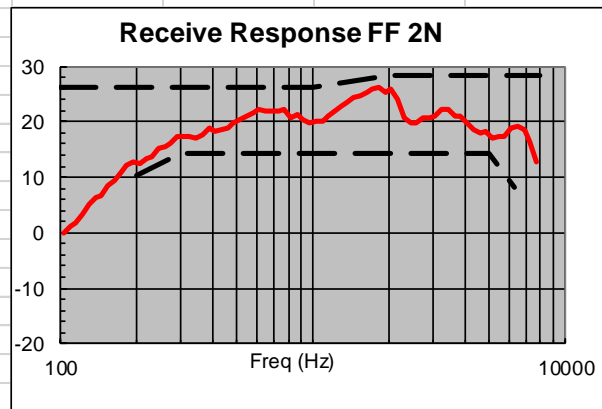
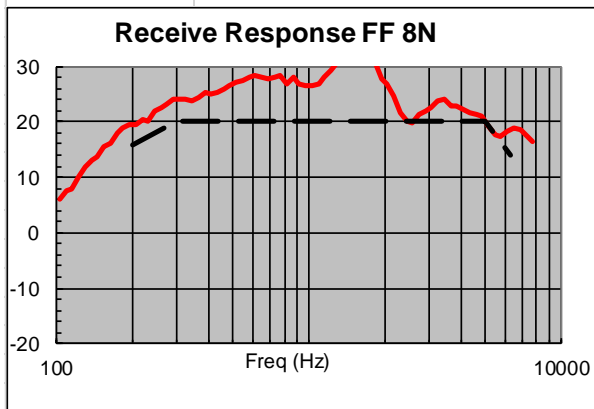
Test Date		
6/13/2024 7:05		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

**LTE Band 41 PC2 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B41 PC2 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.19 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.92 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.9 dB	Floating Limits	PASS	



**Output**

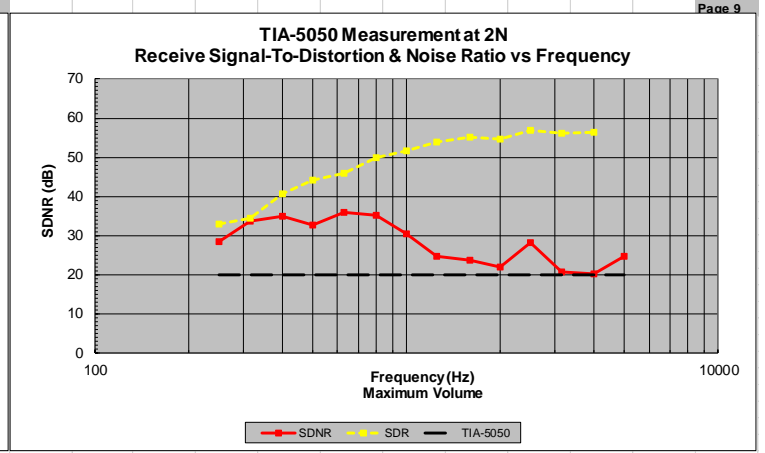
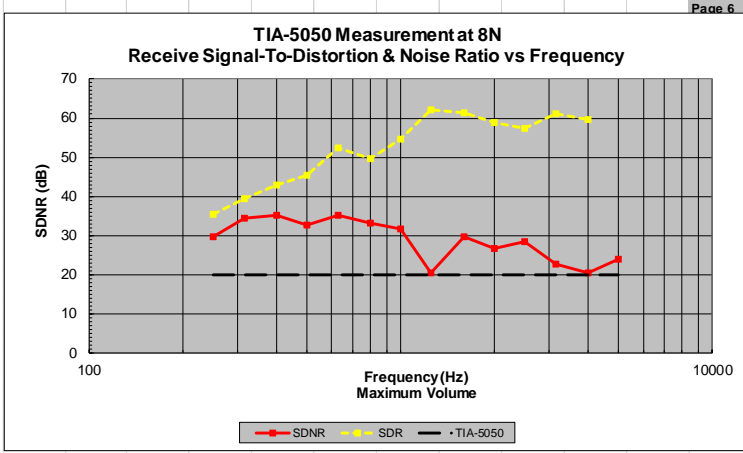
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.89 dB	info only		
	Recv conversational gain 8N	27.89 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.33 dB	info only		
	Recv conversational gain 2N	21.33 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.28 dB	Absolute Limits	PASS	

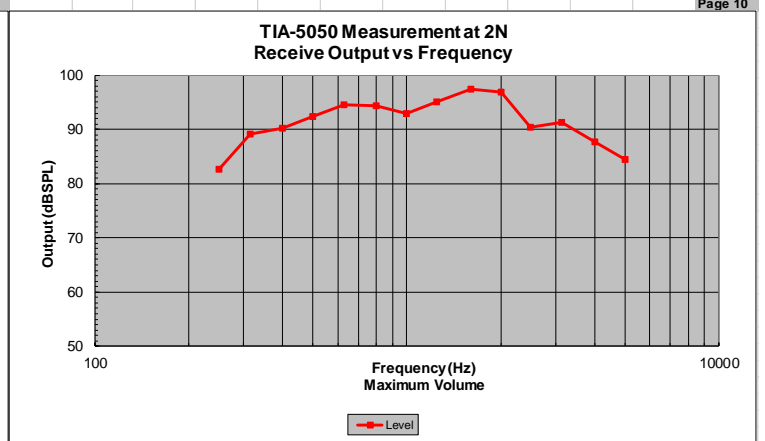
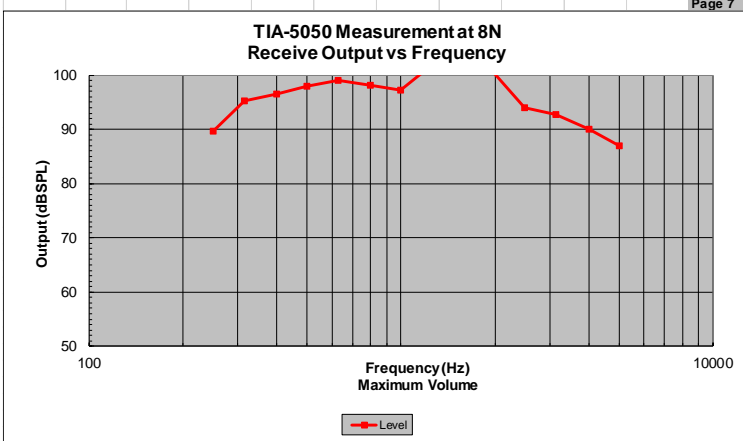
# LTE Band 41 PC2 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



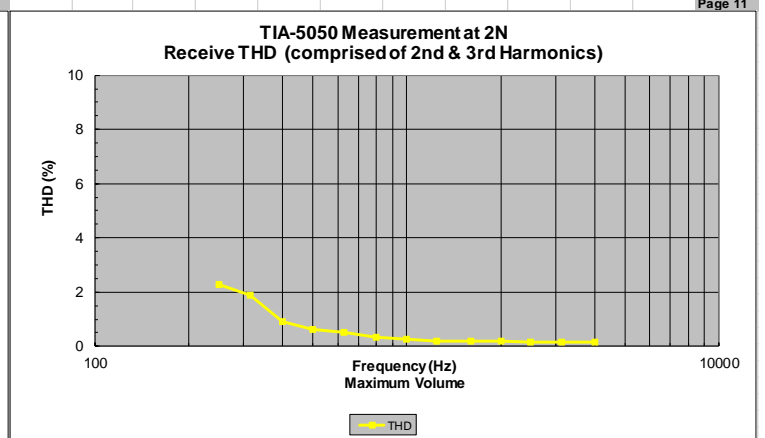
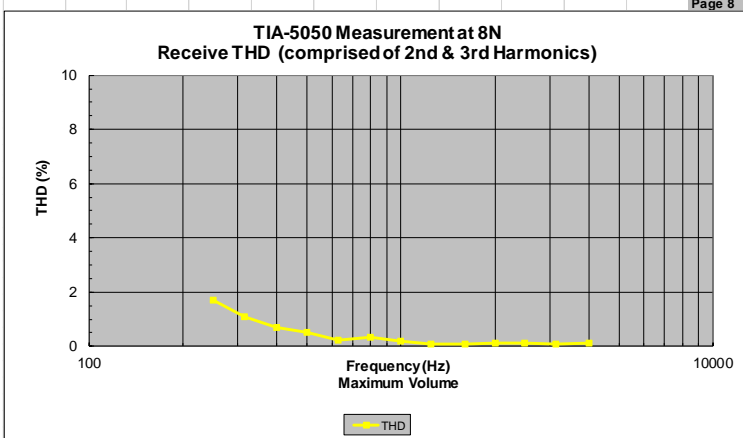
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	6/13/2024 11:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.28 dB	Absolute Limits	PASS	6/13/2024 11:27
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 11:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 11:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 11:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

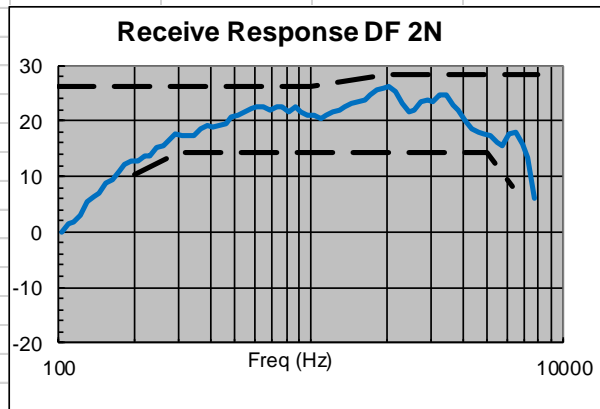
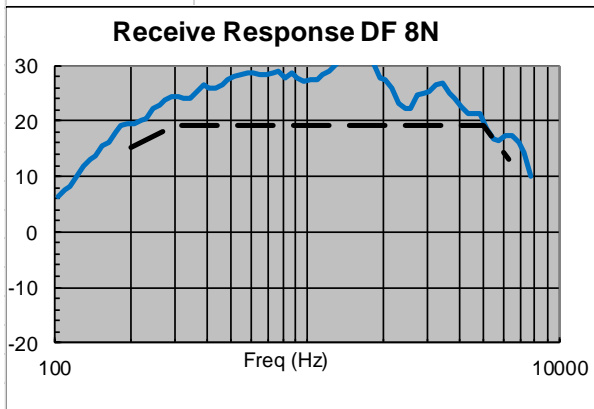
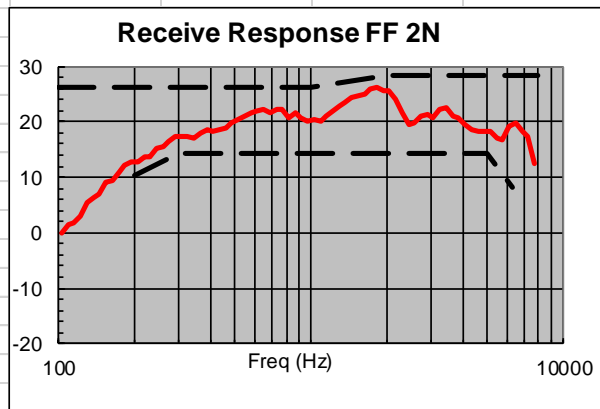
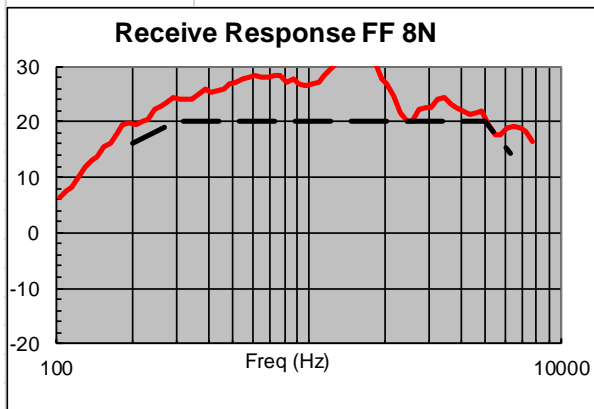
Test Date	
6/13/2024 11:27	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**LTE Band 48 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B48 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.21 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.97 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.1 dB	Floating Limits	PASS	



**Output**

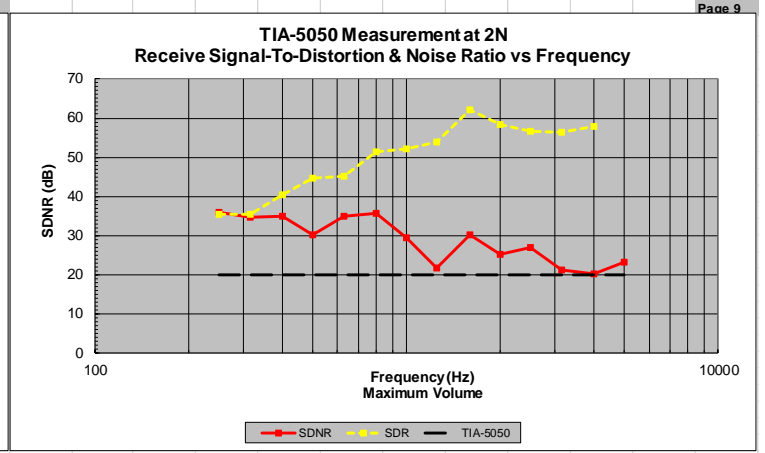
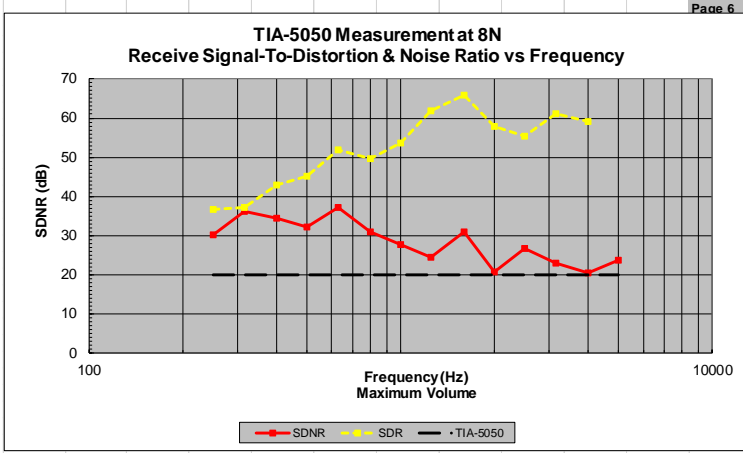
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	98.05 dB	info only		
	Recv conversational gain 8N	28.05 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.36 dB	info only		
	Recv conversational gain 2N	21.36 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.2 dB	Absolute Limits	PASS	

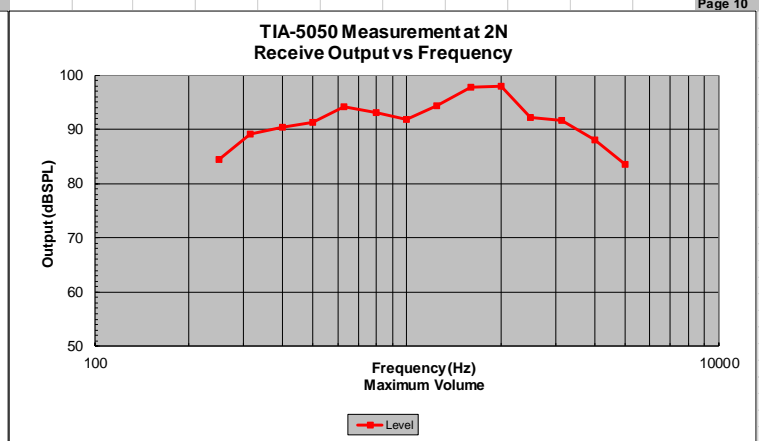
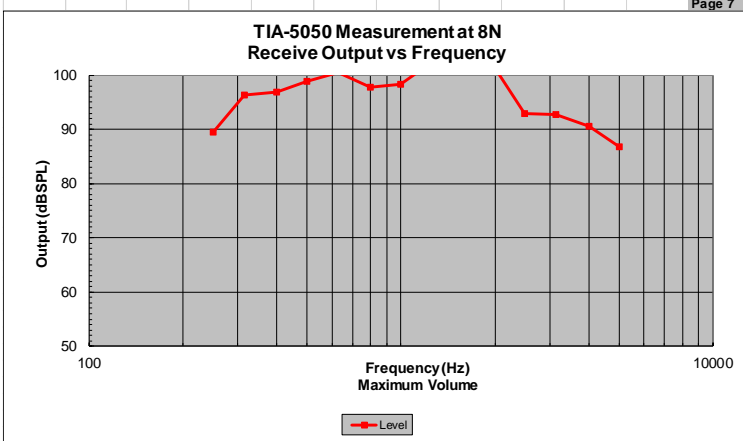
# LTE Band 48 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



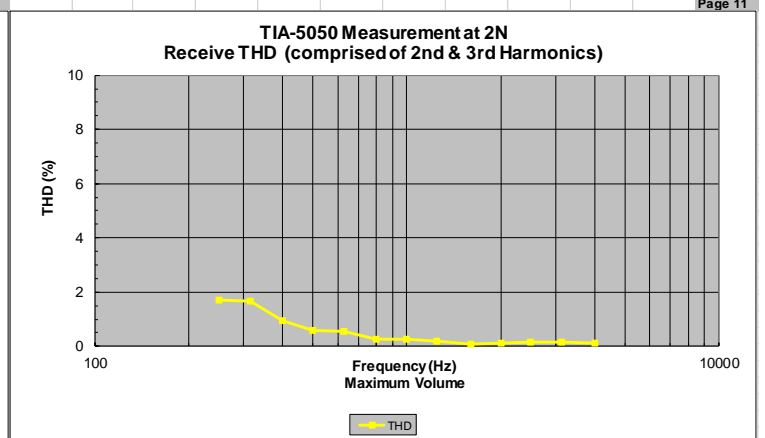
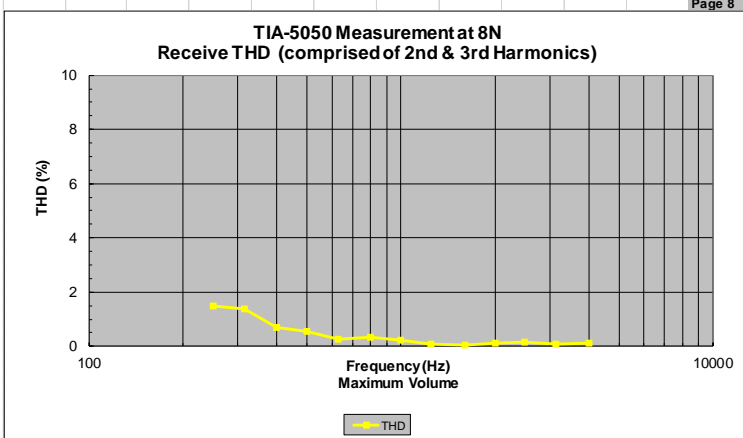
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	6/13/2024 11:35
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.2 dB	Absolute Limits	PASS	6/13/2024 11:35
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 11:35	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 11:35	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 11:35	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 11:35	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

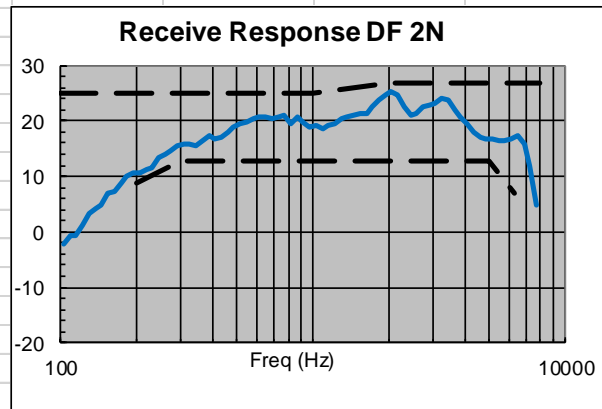
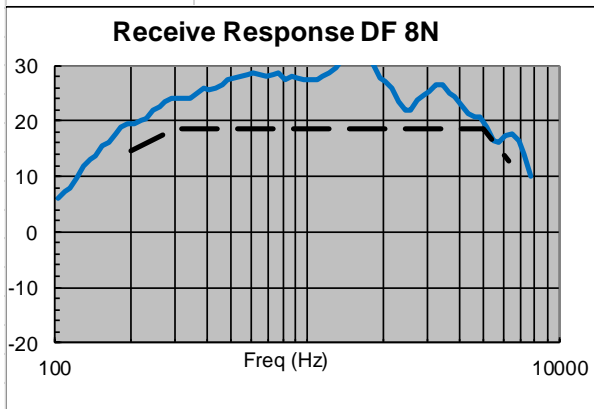
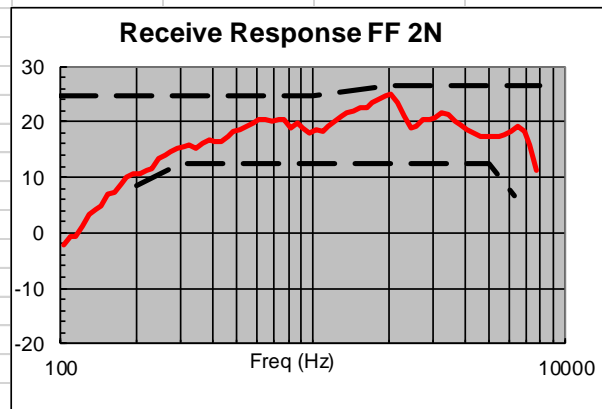
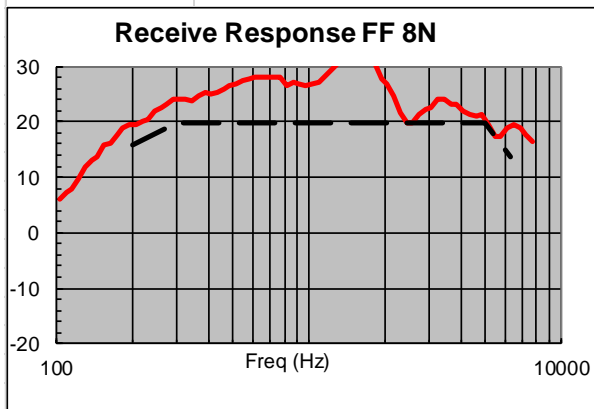


**LTE Band 53 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B53 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.21 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.68 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.4 dB	Floating Limits	PASS	



**Output**

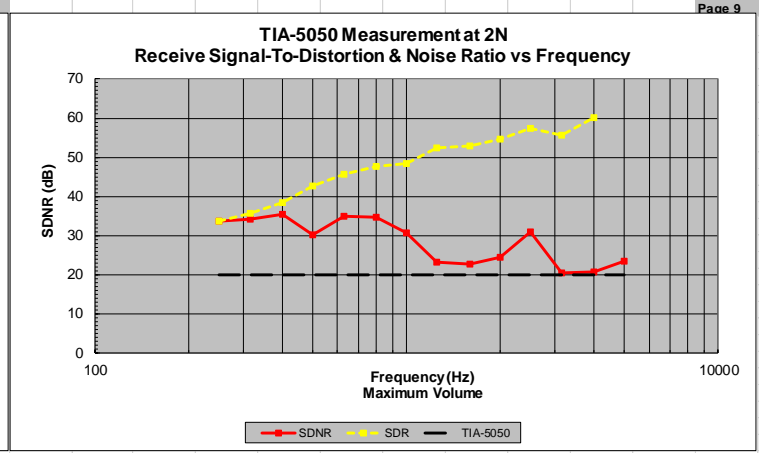
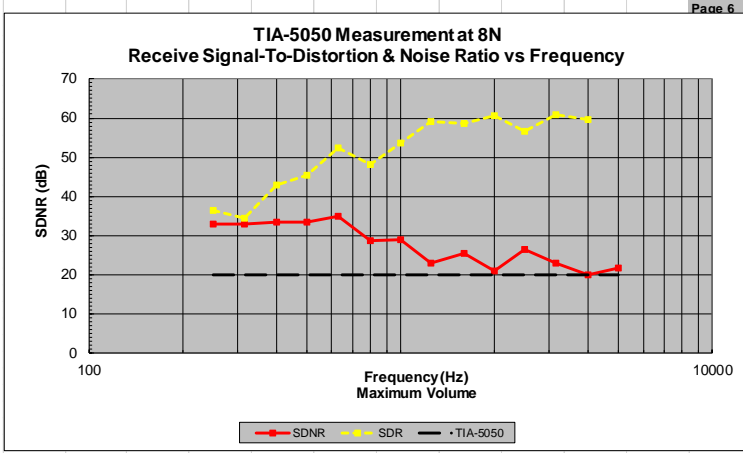
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.85 dB	info only		
	Recv conversational gain 8N	27.85 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.61 dB	info only		
	Recv conversational gain 2N	19.61 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.52 dB	Absolute Limits	PASS	

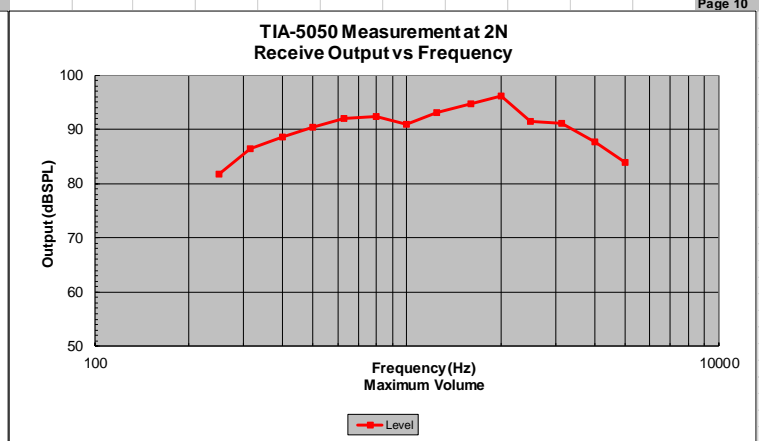
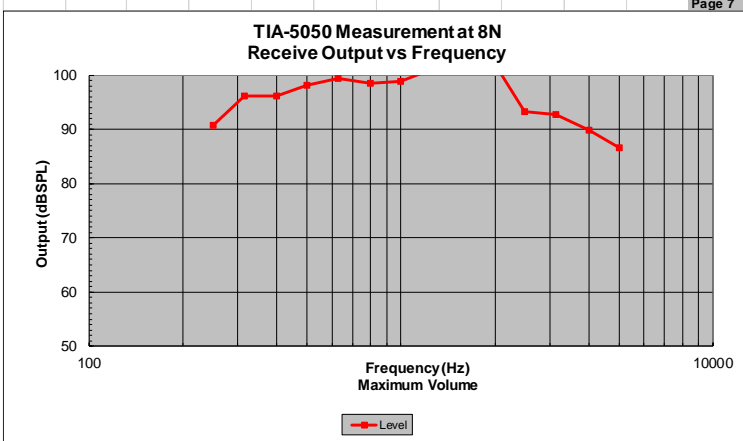
# LTE Band 53 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



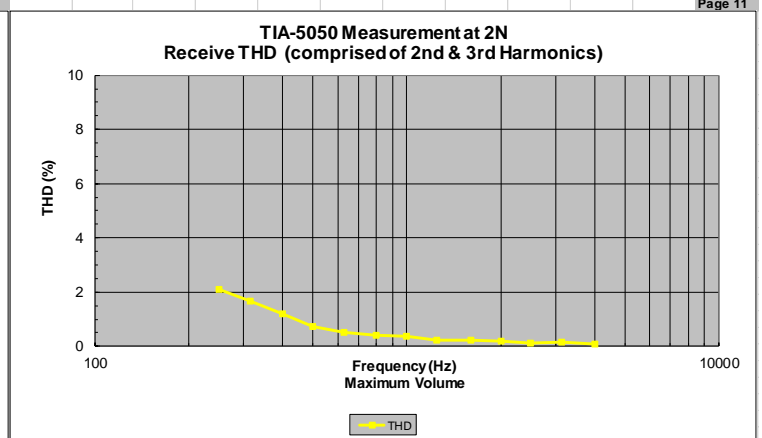
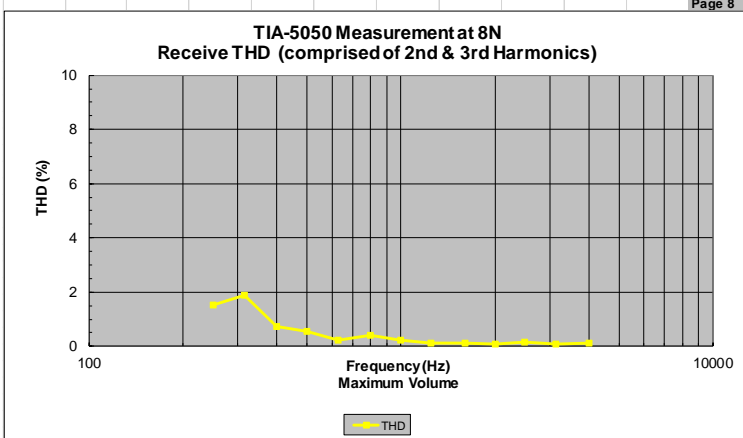
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/13/2024 11:50
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.52 dB	Absolute Limits	PASS	6/13/2024 11:50
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/13/2024 11:50		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 11:50		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/13/2024 11:50		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

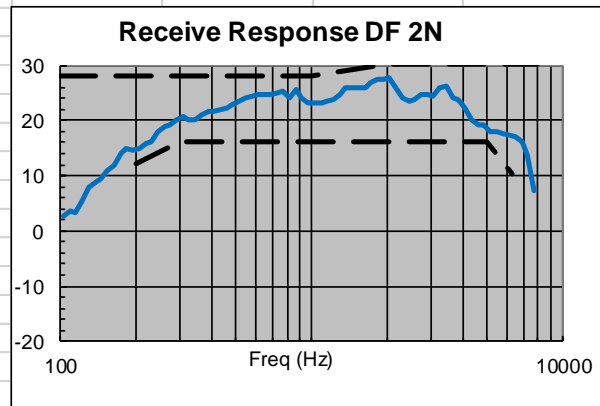
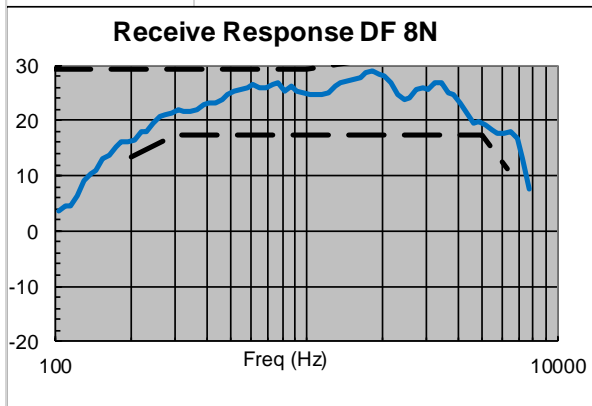
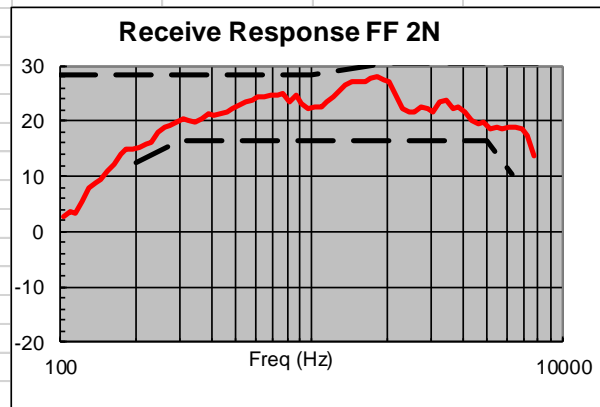
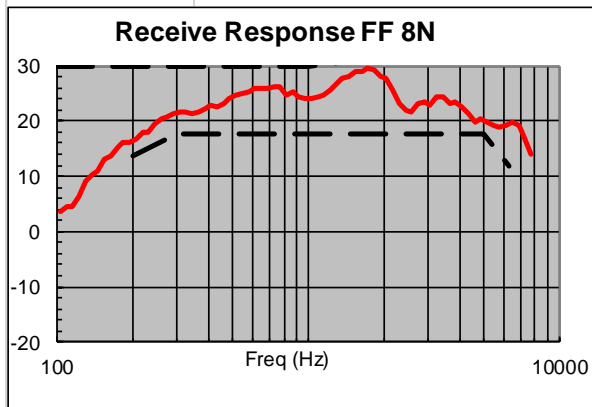
Test Date		
6/13/2024 11:50		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

**LTE Band 66 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B66 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.9 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.25 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.5 dB	Floating Limits	PASS	



**Output**

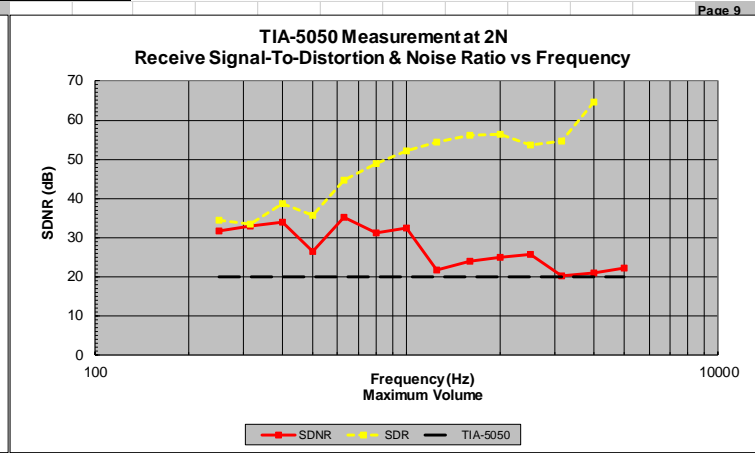
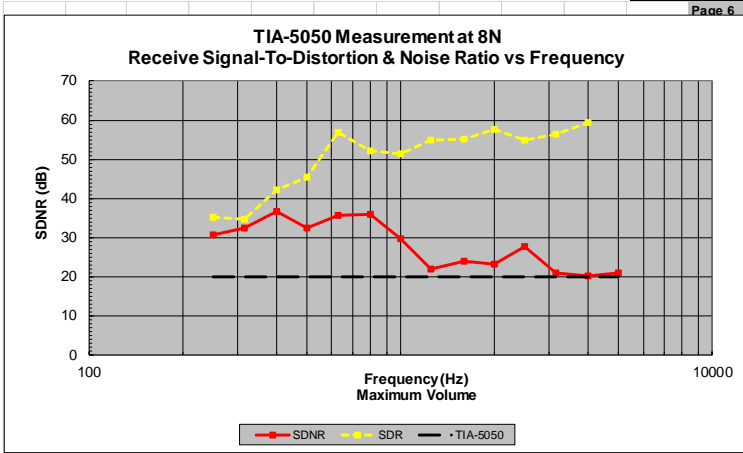
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.27 dB	info only		
	Recv conversational gain 8N	25.27 dB	18.00	PASS	
	Recv output level dBSPL 2N	93.77 dB	info only		
	Recv conversational gain 2N	23.77 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.31 dB	Absolute Limits	PASS	

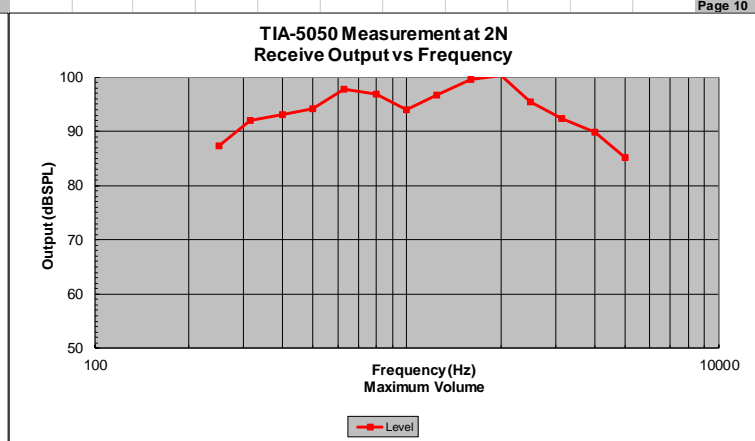
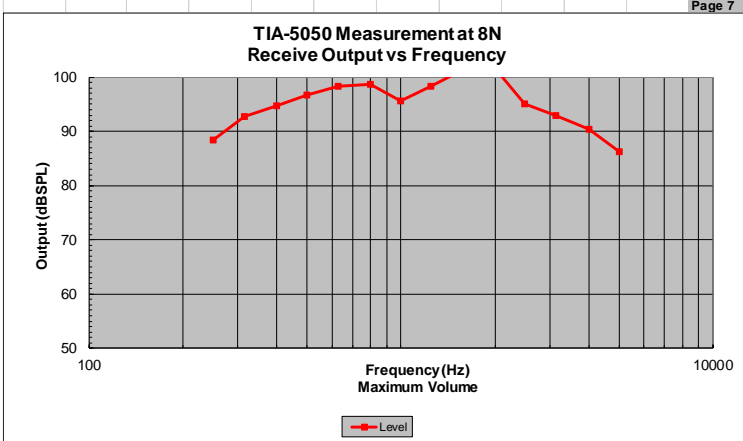
# LTE Band 66 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



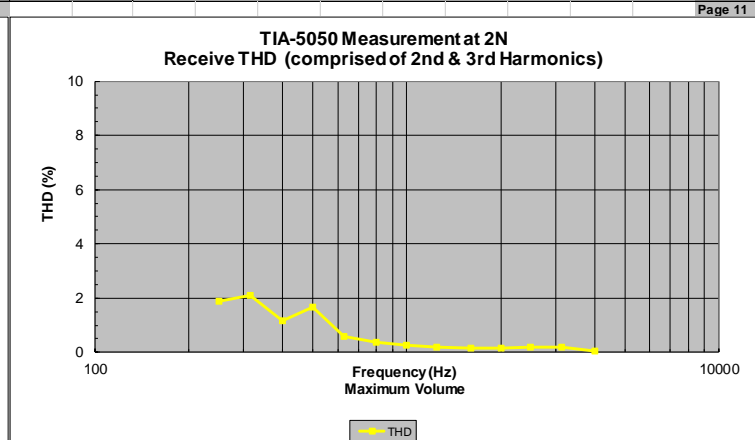
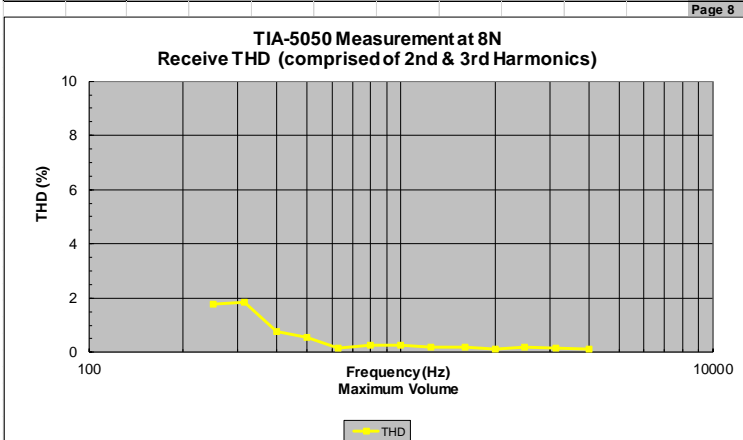
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	6/12/2024 21:07
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.31 dB	Absolute Limits	PASS	6/12/2024 21:07
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/12/2024 21:07	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/12/2024 21:07	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/12/2024 21:07	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

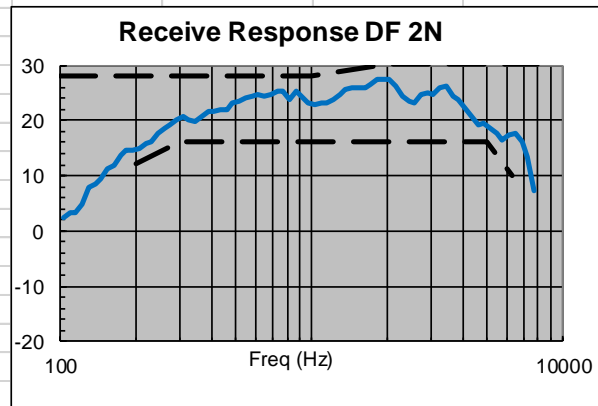
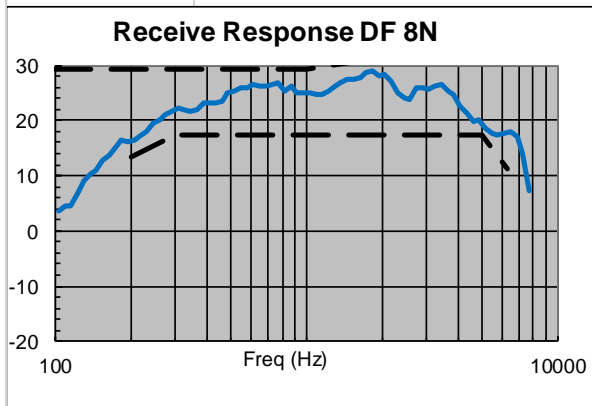
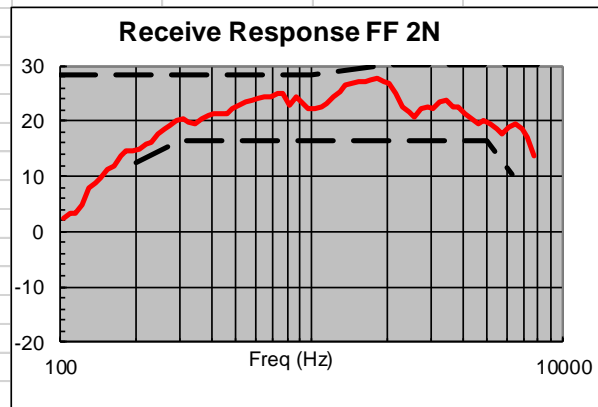
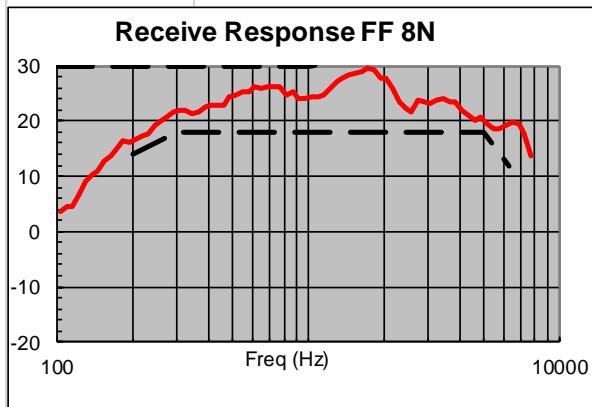
Test Date	
6/12/2024 21:07	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**LTE Band 71 EVS-WB: 24.4 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B71 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.05 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.28 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.5 dB	Floating Limits	PASS	



**Output**

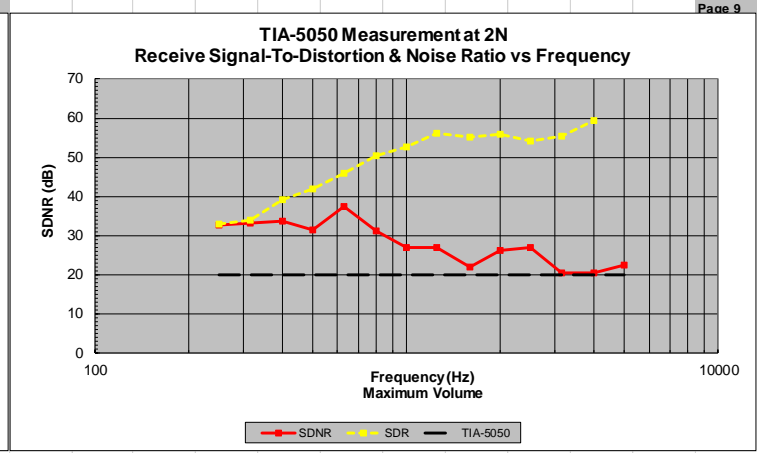
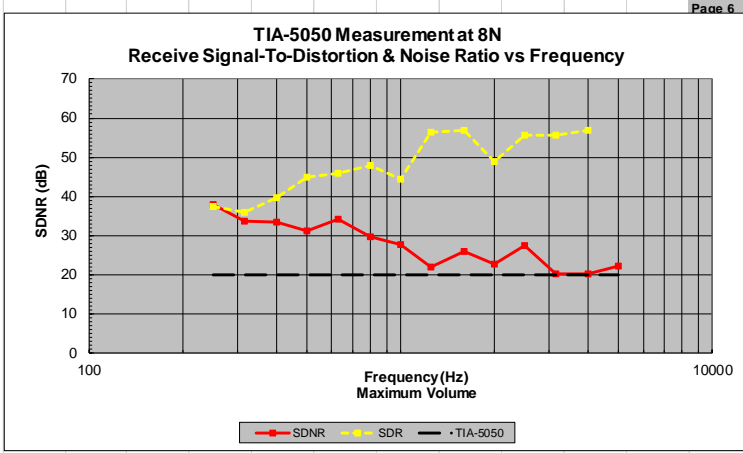
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.32 dB	info only		
	Recv conversational gain 8N	25.32 dB	18.00	PASS	
	Recv output level dBSPL 2N	93.71 dB	info only		
	Recv conversational gain 2N	23.71 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.4 dB	Absolute Limits	PASS	

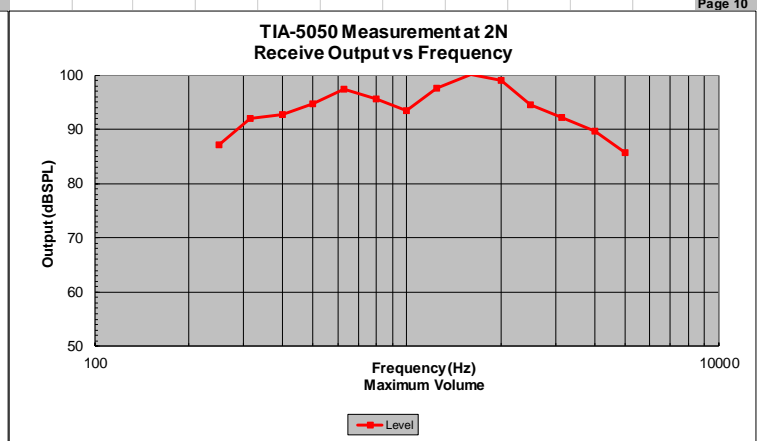
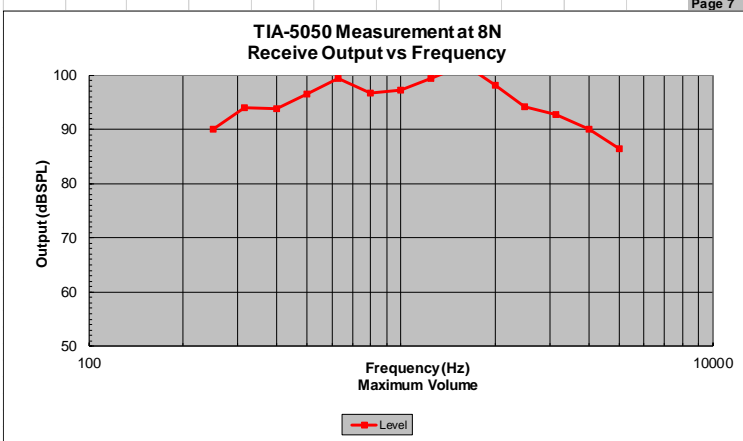
# LTE Band 71 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



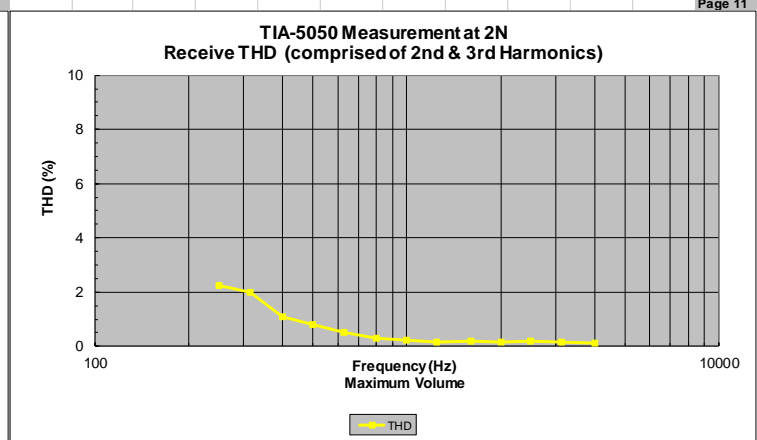
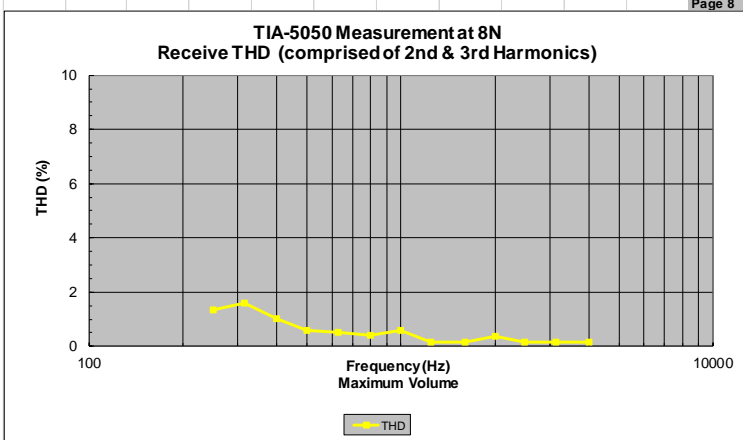
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	6/13/2024 0:05
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.4 dB	Absolute Limits	PASS	6/13/2024 0:05
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 0:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 0:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 0:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

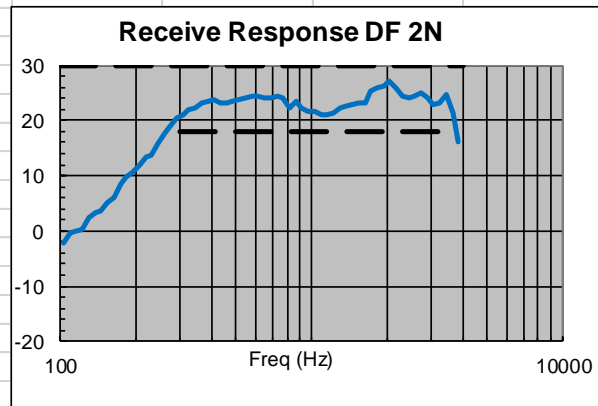
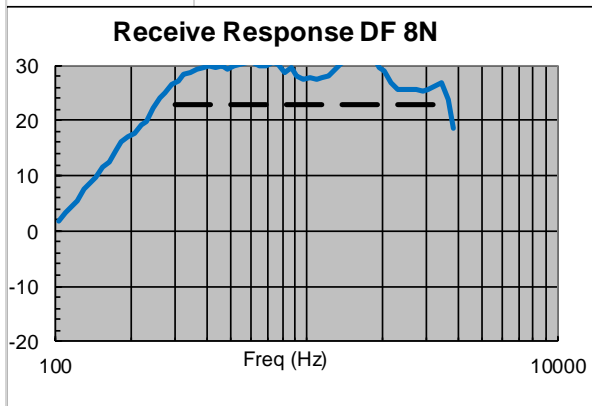
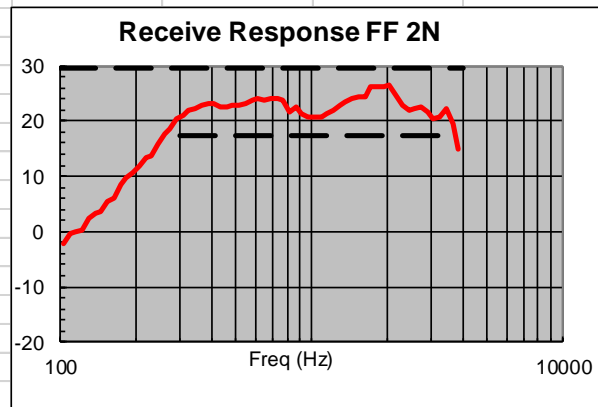
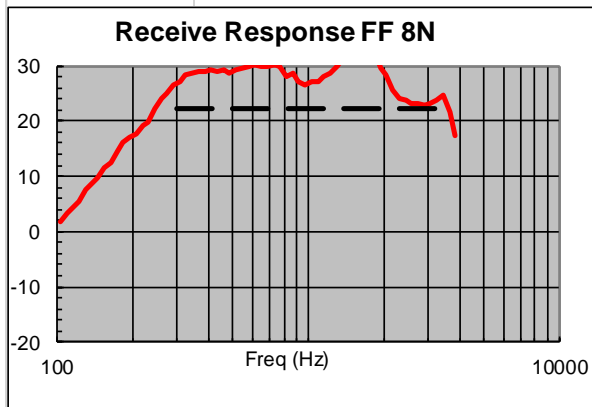
Test Date	
6/13/2024 0:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**NR n25 EVS-NB: 9.6 kbps**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n25 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.73 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.44 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.89 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.86 dB	Floating Limits	PASS	



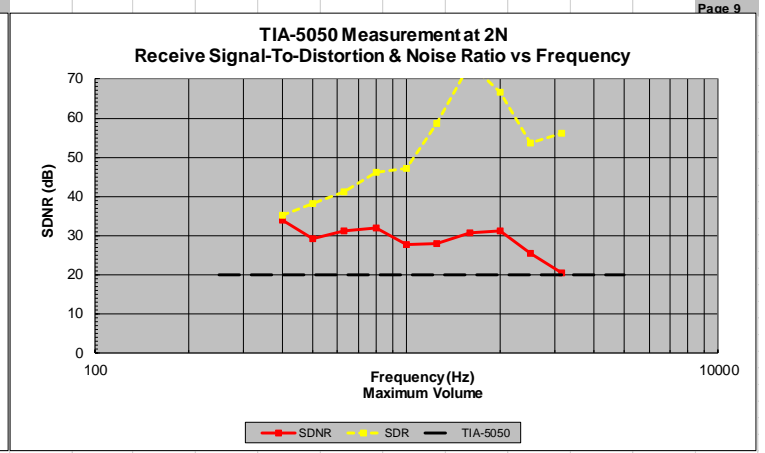
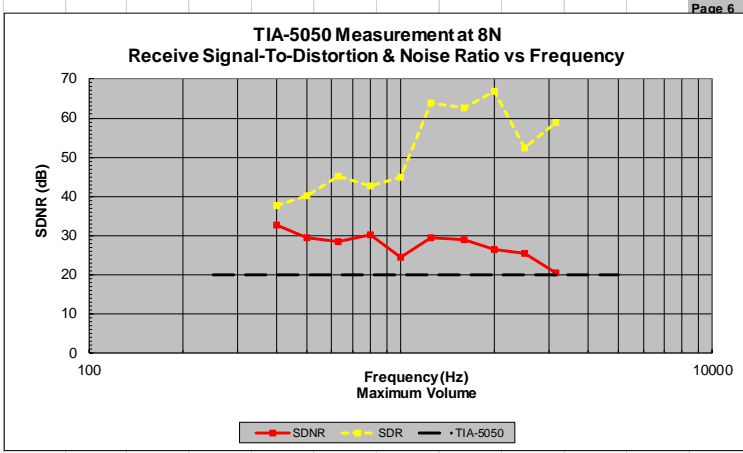
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	99.72 dB	info only		
	Recv conversational gain 8N	29.72 dB	18.00	PASS	
	Recv output level dBSPL 2N	93.46 dB	info only		
	Recv conversational gain 2N	23.46 dB	6.00	PASS	

**Distortion**

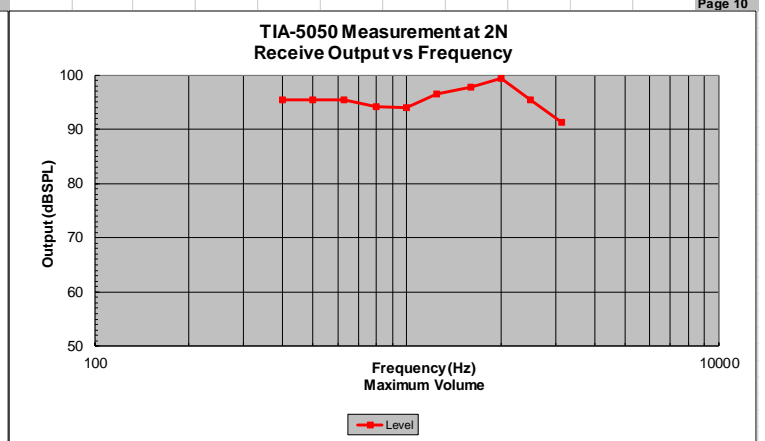
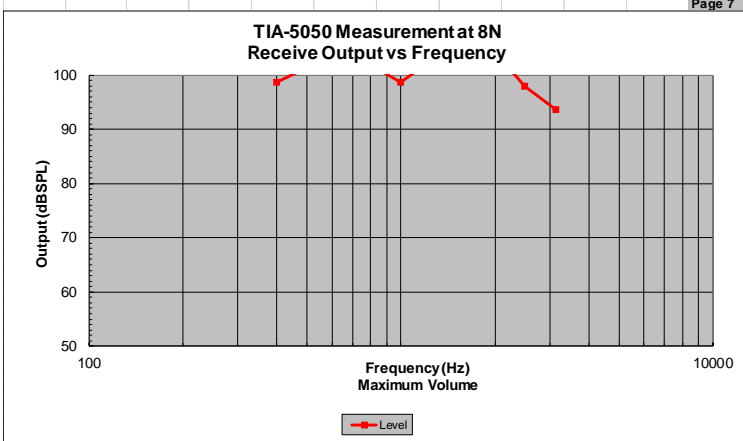
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.4 dB	Absolute Limits	PASS	

# NR n25 EVS-NB: 9.6 kbps Distortion Report



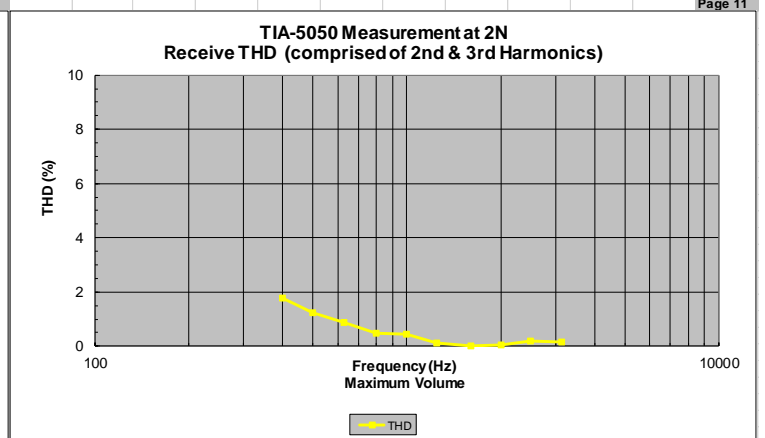
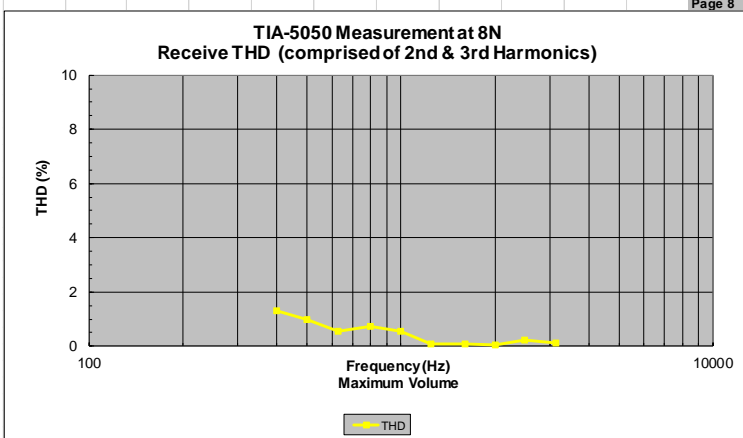
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	6/14/2024 2:21
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.4 dB	Absolute Limits	PASS	6/14/2024 2:21
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			



Test Date
6/14/2024 2:21
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
6/14/2024 2:21
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps



Test Date
6/14/2024 2:21
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
6/14/2024 2:21
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

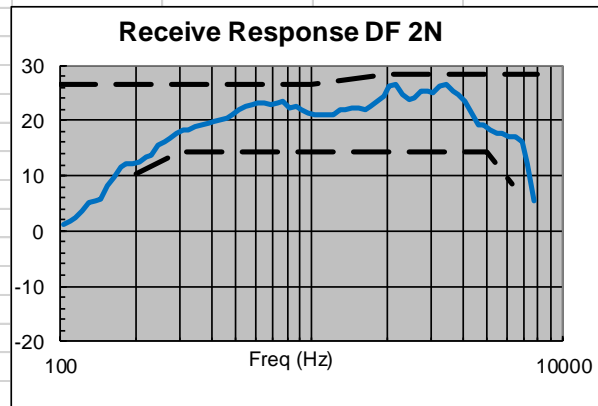
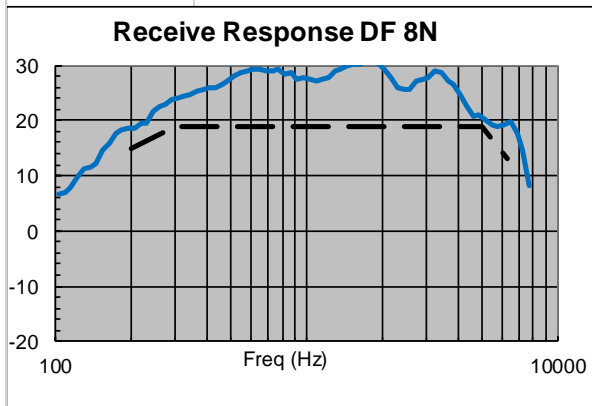
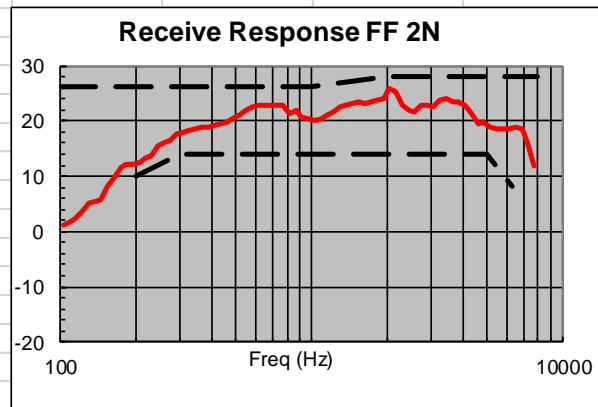
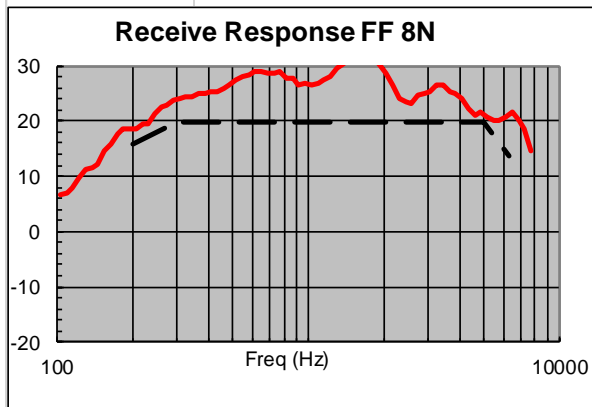


**NR n25 EVS-WB: 24.4 kbps**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n25 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.43 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.25 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.9 dB	Floating Limits	PASS	



**Output**

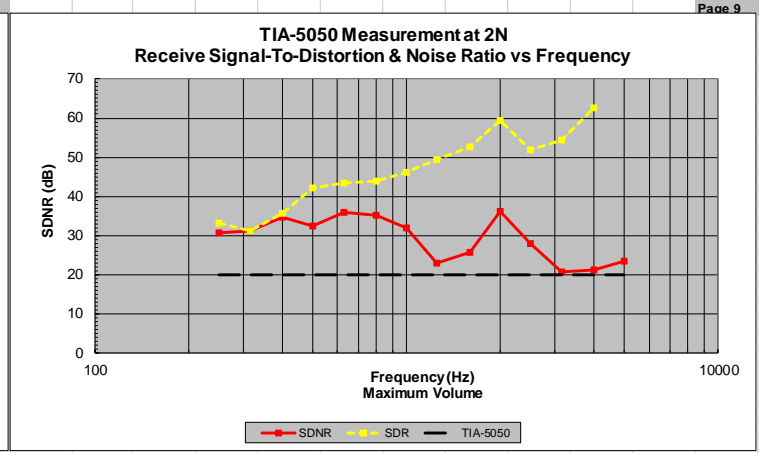
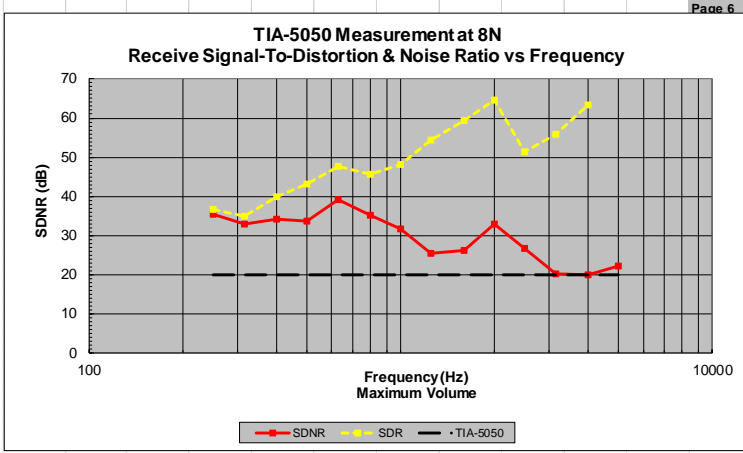
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.92 dB	info only		
	Recv conversational gain 8N	27.92 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.81 dB	info only		
	Recv conversational gain 2N	21.81 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.78 dB	Absolute Limits	PASS	

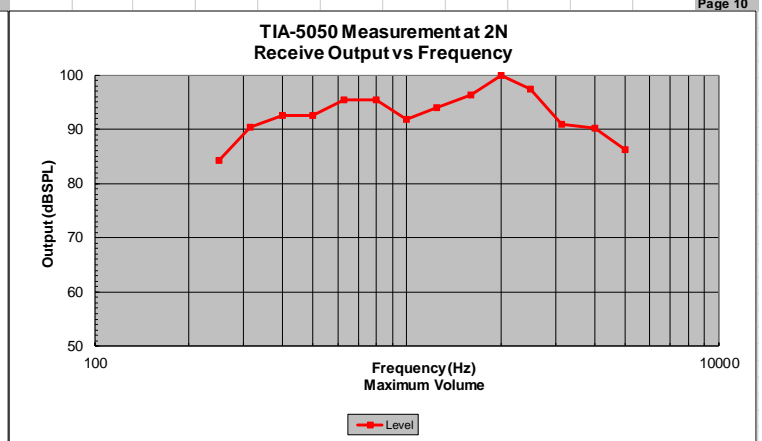
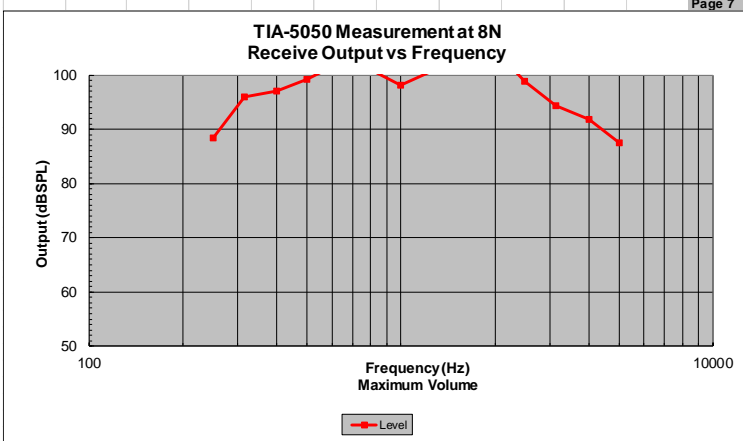
# NR n25 EVS-WB: 24.4 kbps

## Distortion Report



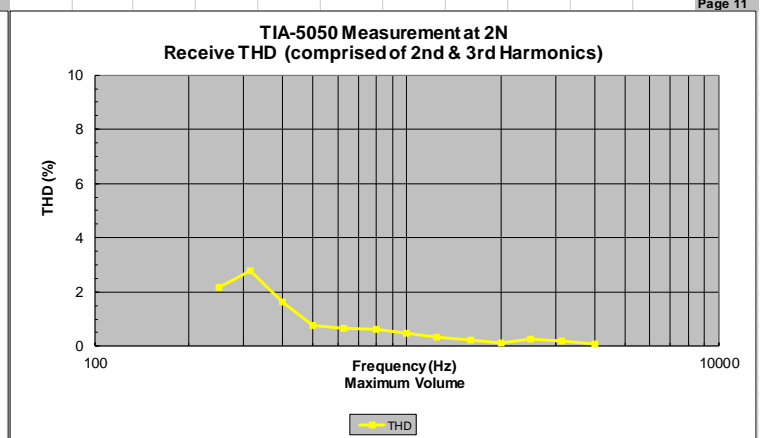
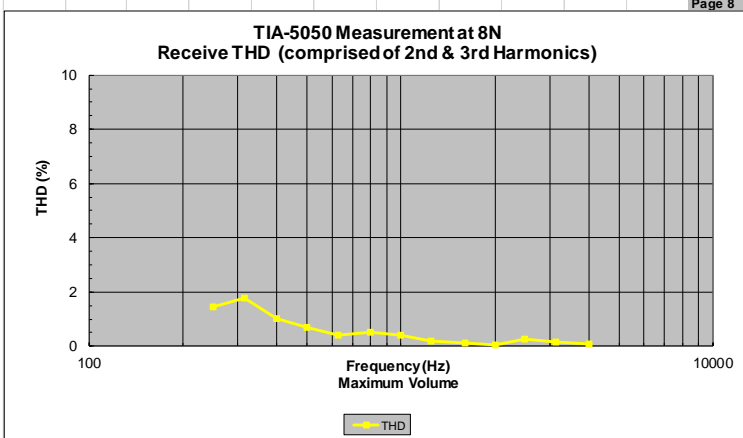
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/14/2024 4:01
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.78 dB	Absolute Limits	PASS	6/14/2024 4:01
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/14/2024 4:01	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/14/2024 4:01	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/14/2024 4:01	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/14/2024 4:01	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

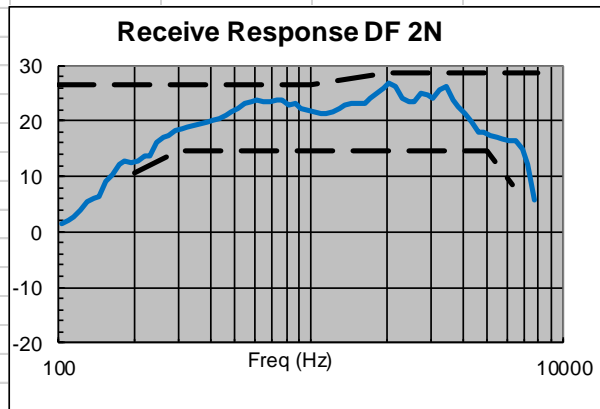
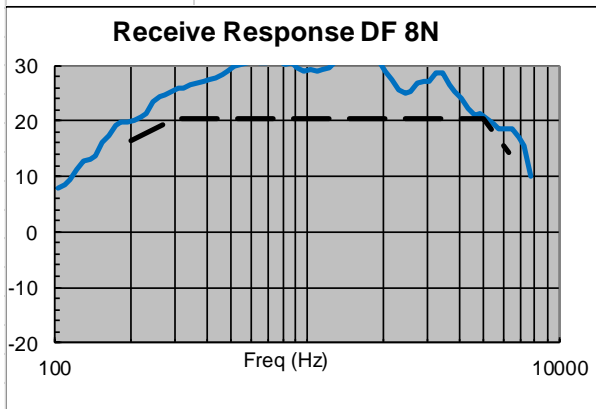
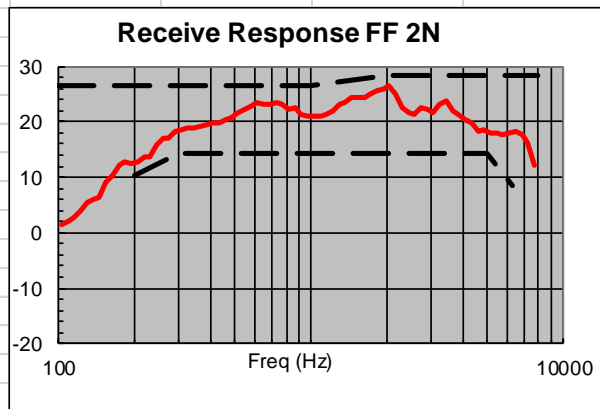
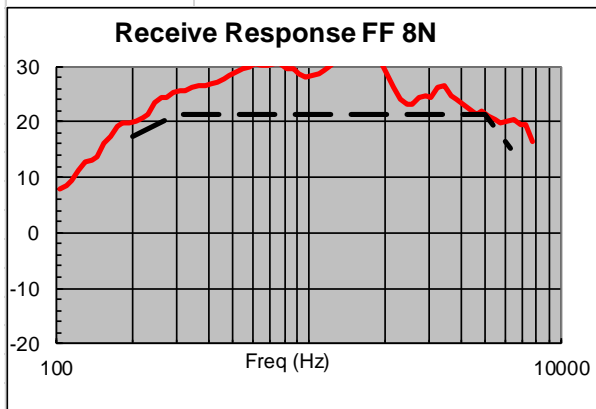
**NR n7 EVS-WB: 24.4 kbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n7 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.1 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.95 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.7 dB	Floating Limits	PASS	



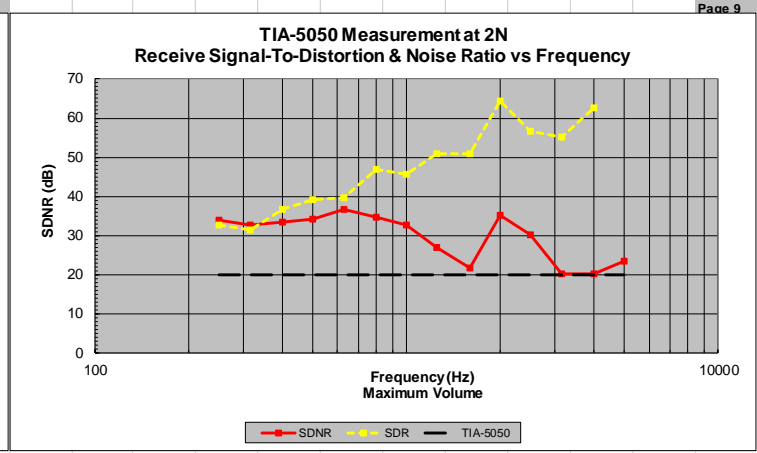
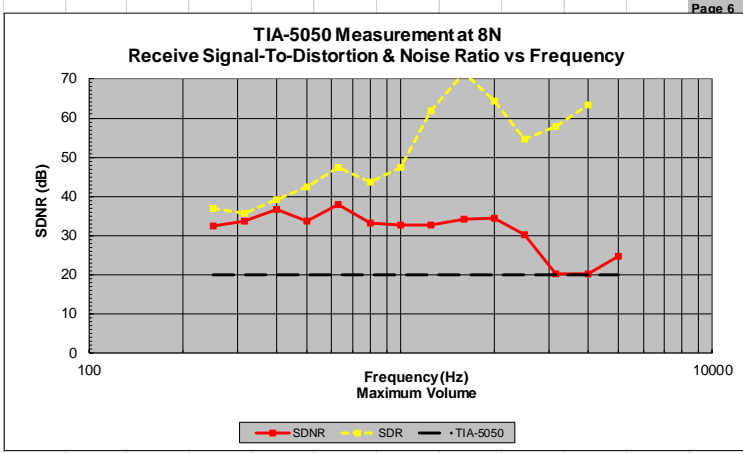
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.62 dB	info only		
	Recv conversational gain 8N	29.62 dB	18.00	PASS	
	Recv output level dB SPL 2N	92.29 dB	info only		
	Recv conversational gain 2N	22.29 dB	6.00	PASS	

**Distortion**

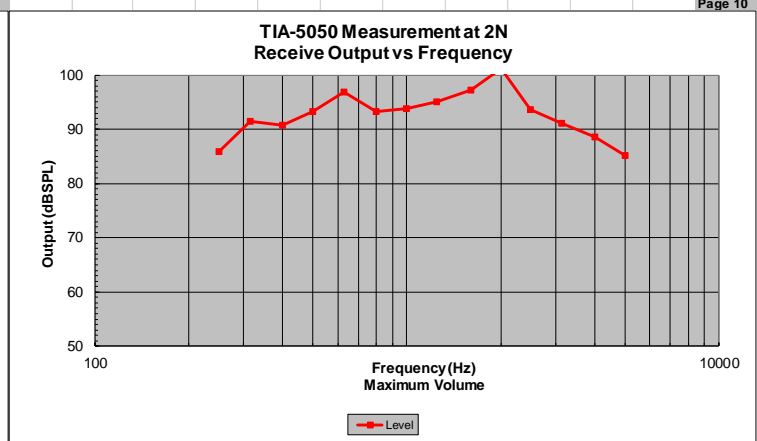
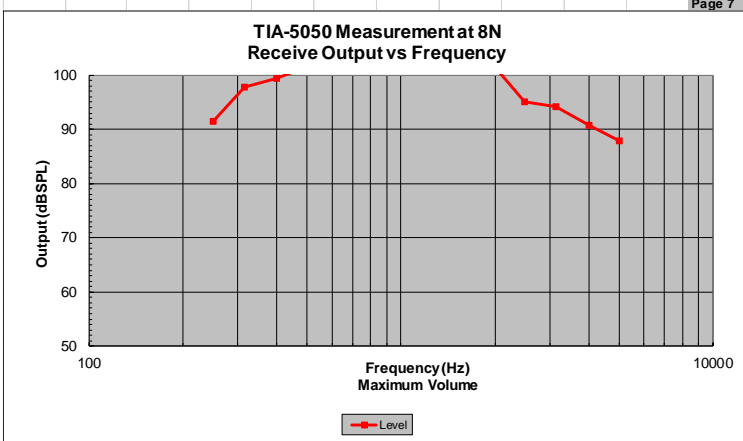
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.14 dB	Absolute Limits	PASS	

# NR n7 EVS-WB: 24.4 kbps Distortion Report



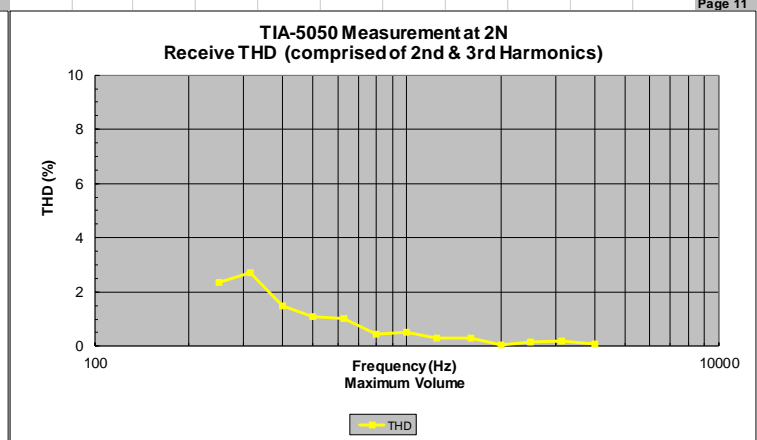
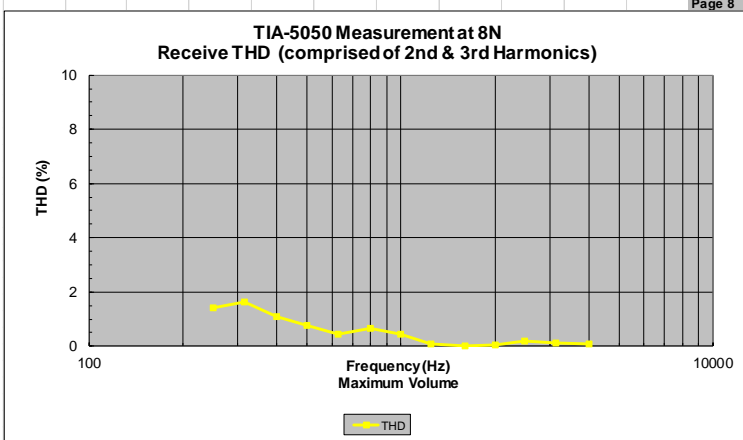
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	6/14/2024 9:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.14 dB	Absolute Limits	PASS	6/14/2024 9:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/14/2024 9:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/14/2024 9:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/14/2024 9:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/14/2024 9:40		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

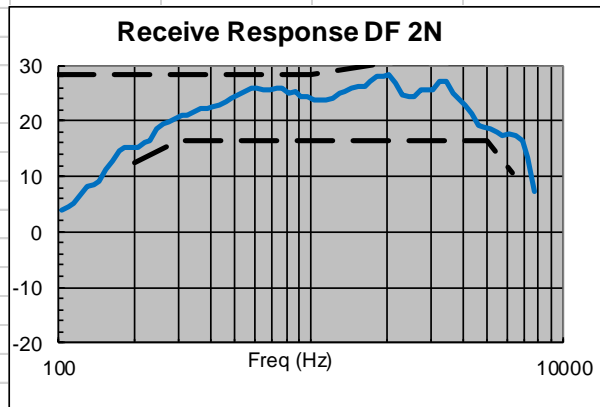
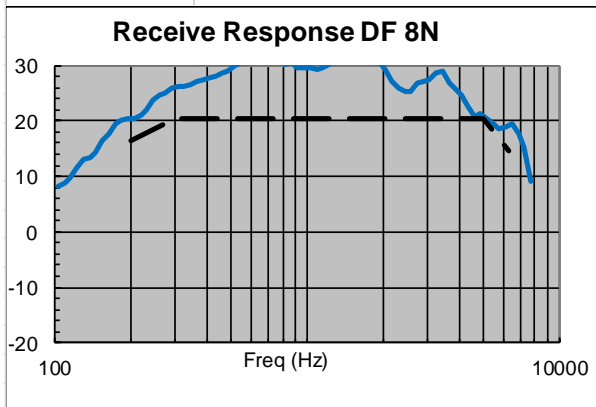
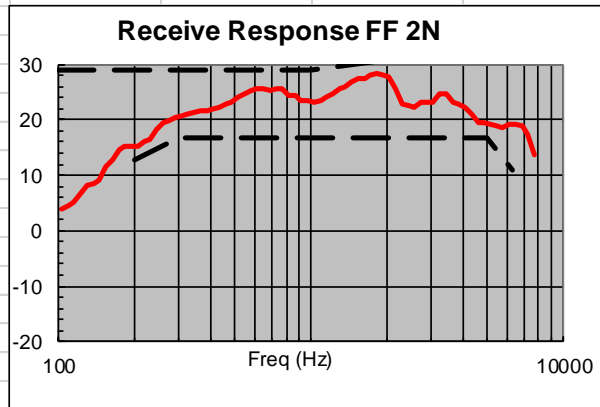
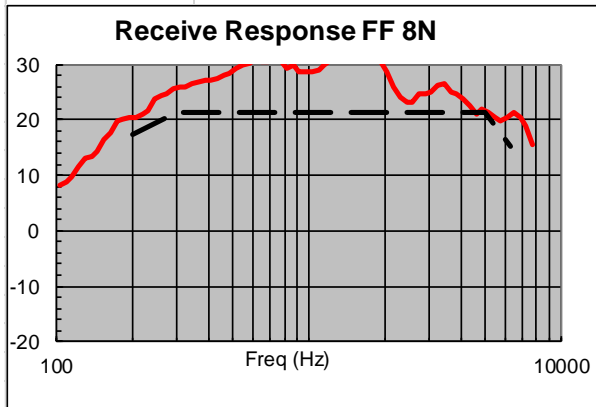
**NR n12 EVS-WB: 24.4 kbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n12 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.25 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.17 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.2 dB	Floating Limits	PASS	



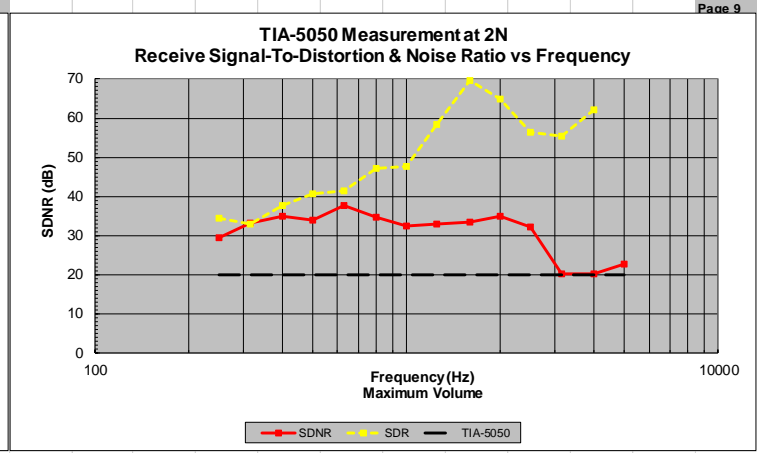
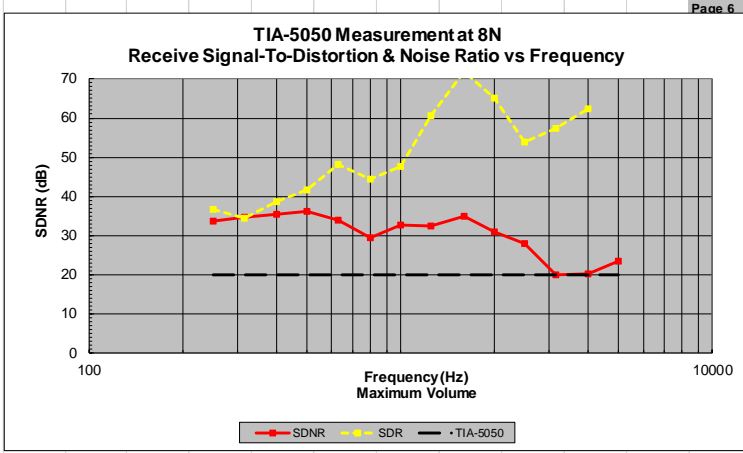
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.91 dB	info only		
	Recv conversational gain 8N	29.91 dB	18.00	PASS	
	Recv output level dB SPL 2N	94.65 dB	info only		
	Recv conversational gain 2N	24.65 dB	6.00	PASS	

**Distortion**

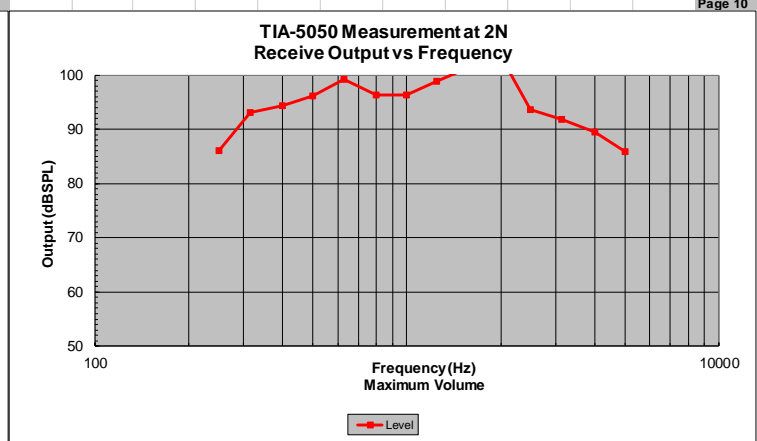
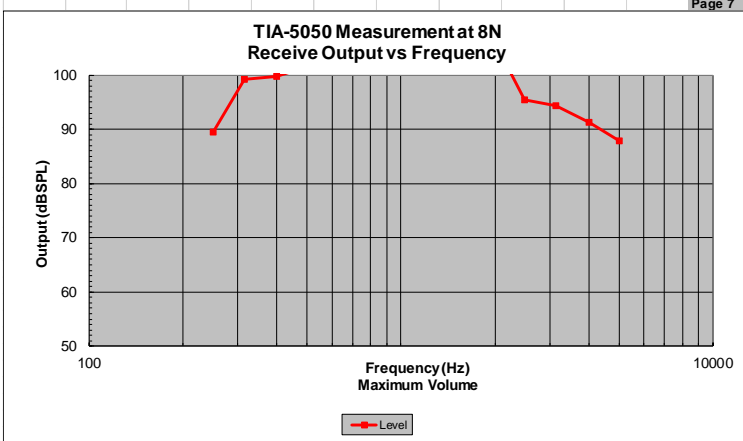
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.2 dB	Absolute Limits	PASS	

# NR n12 EVS-WB: 24.4 kbps Distortion Report



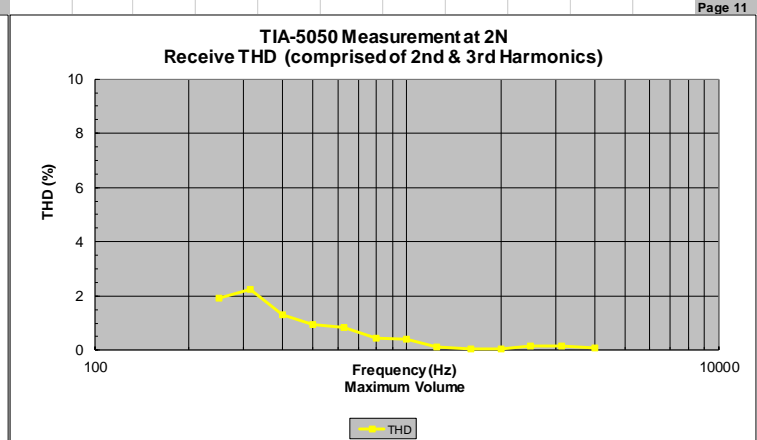
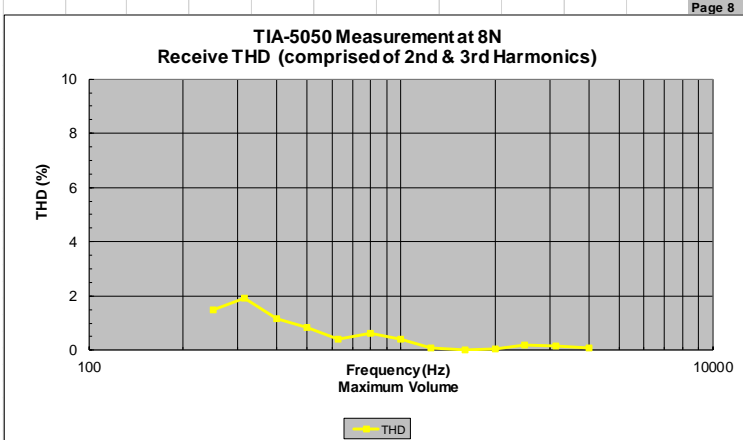
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/14/2024 14:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.2 dB	Absolute Limits	PASS	6/14/2024 14:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/14/2024 14:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/14/2024 14:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/14/2024 14:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/14/2024 14:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

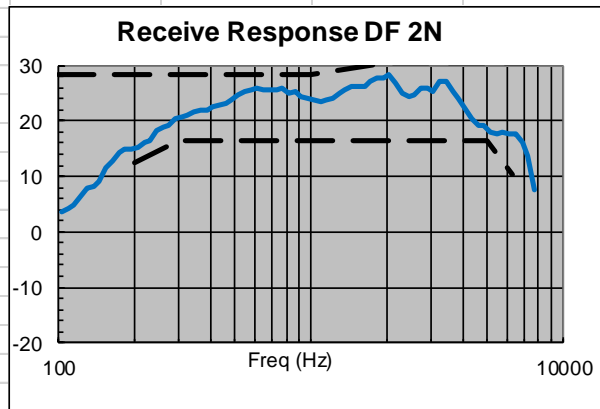
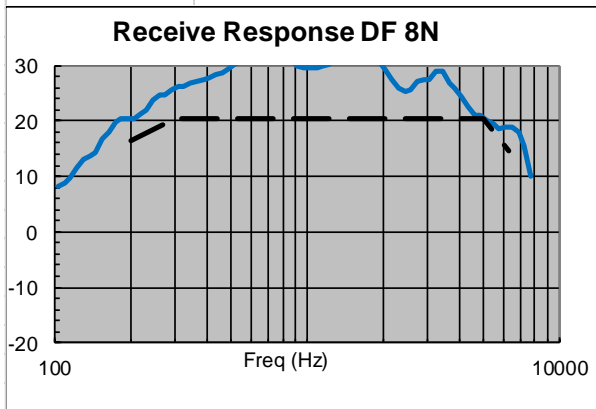
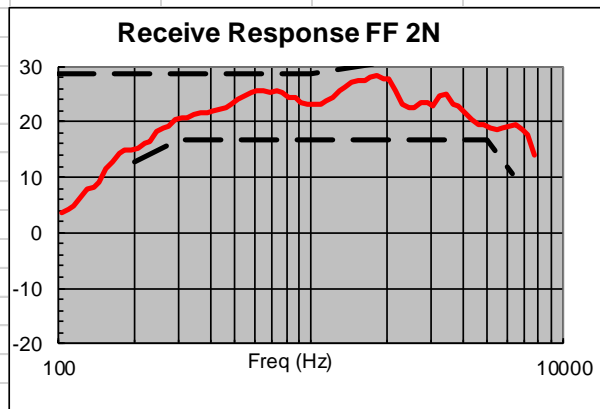
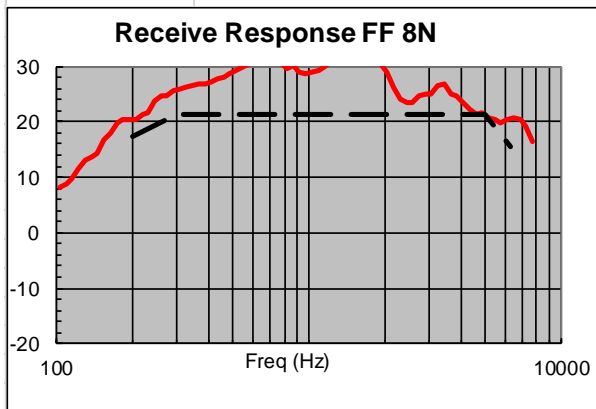
**NR n30 EVS-WB: 24.4 kbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n30 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.29 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.17 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.2 dB	Floating Limits	PASS	



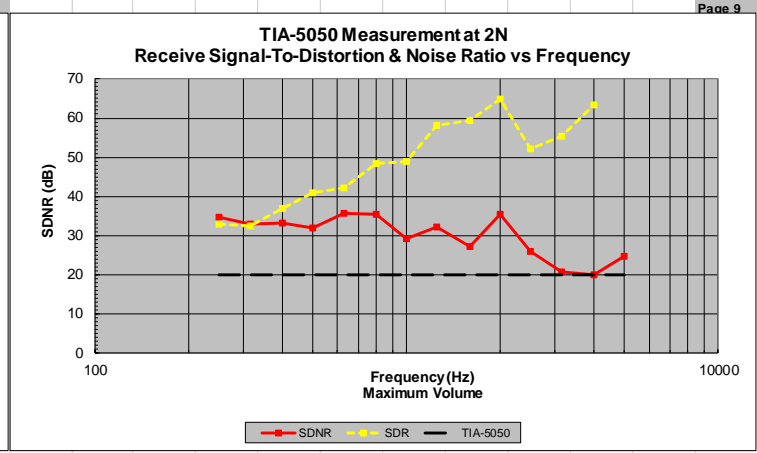
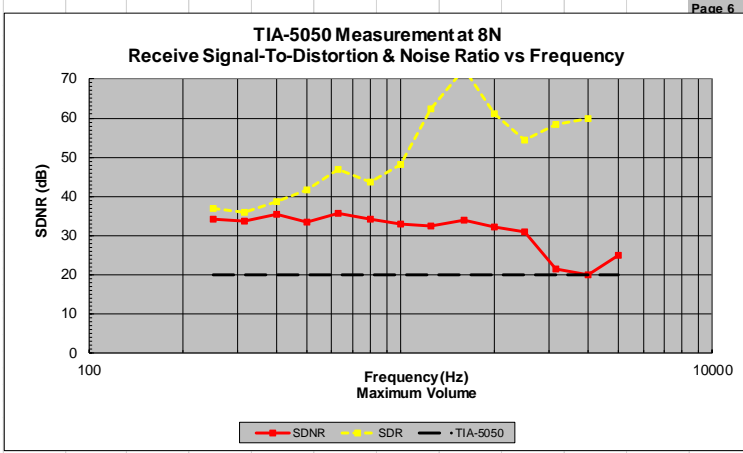
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	100.07 dB	info only		
	Recv conversational gain 8N	30.07 dB	18.00	PASS	
	Recv output level dB SPL 2N	94.56 dB	info only		
	Recv conversational gain 2N	24.56 dB	6.00	PASS	

**Distortion**

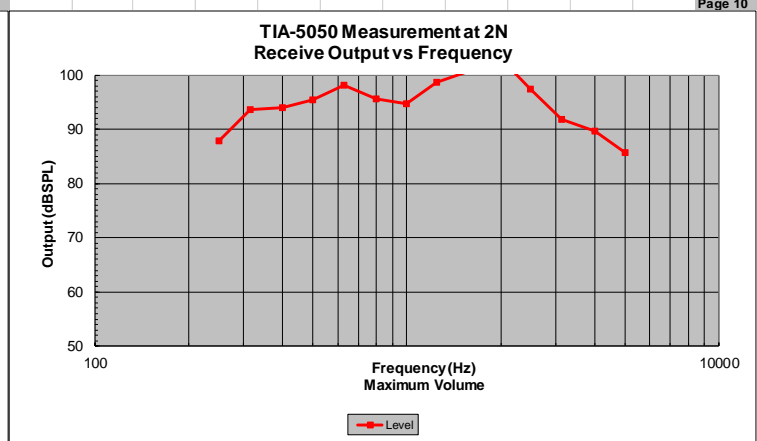
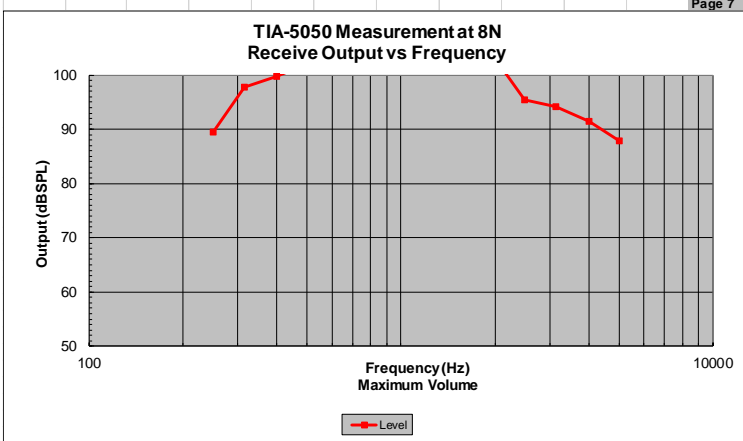
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.11 dB	Absolute Limits	PASS	

# NR n30 EVS-WB: 24.4 kbps Distortion Report



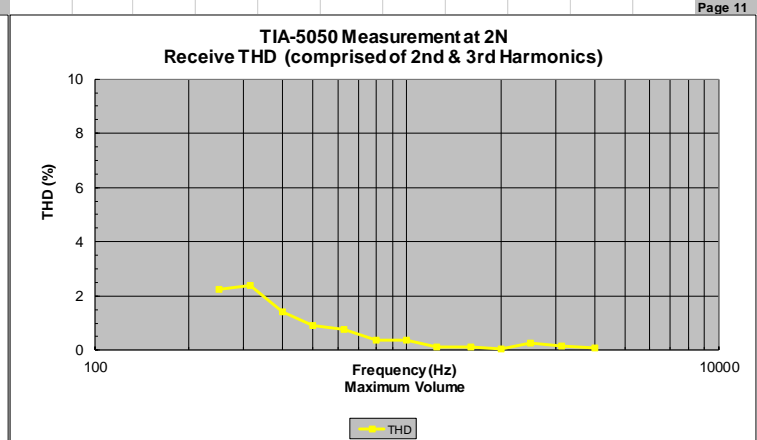
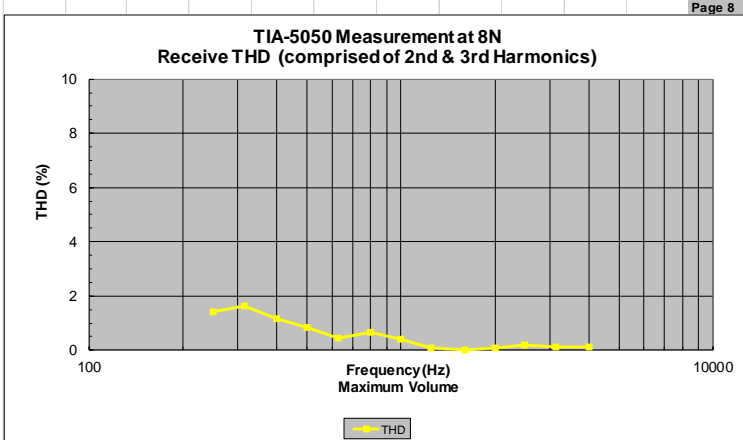
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/14/2024 15:17
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.11 dB	Absolute Limits	PASS	6/14/2024 15:17
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/14/2024 15:17		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/14/2024 15:17		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/14/2024 15:17		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/14/2024 15:17		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



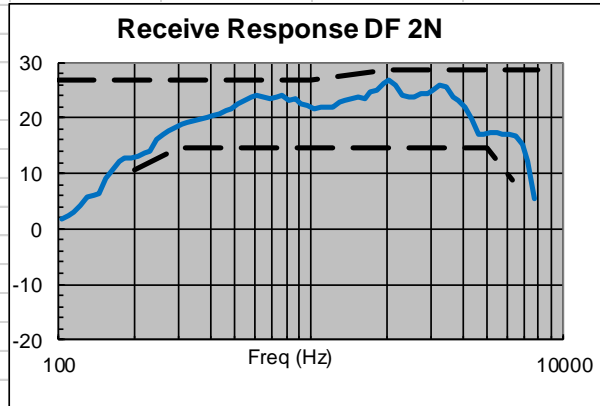
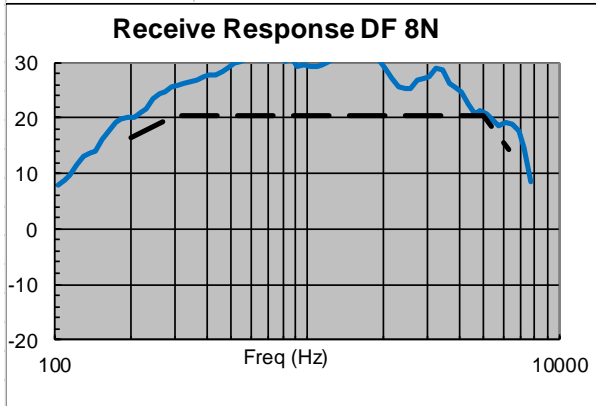
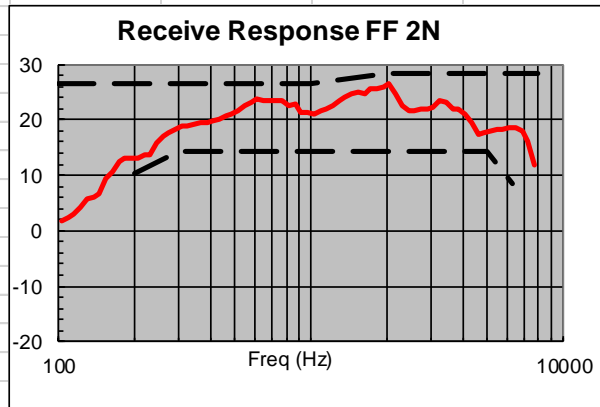
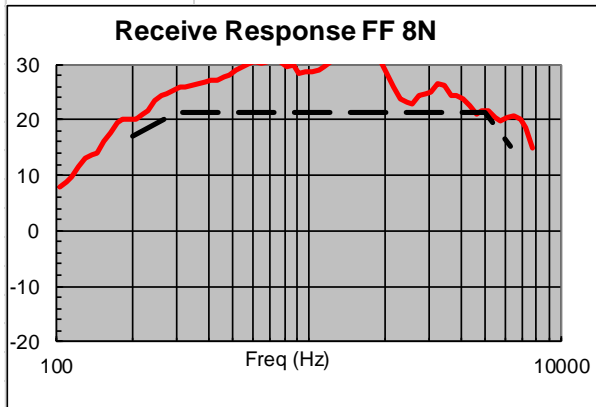
**NR n41 PC3 EVS-WB: 24.4 kbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n41 PC3 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.25 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.02 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.8 dB	Floating Limits	PASS	



**Output**

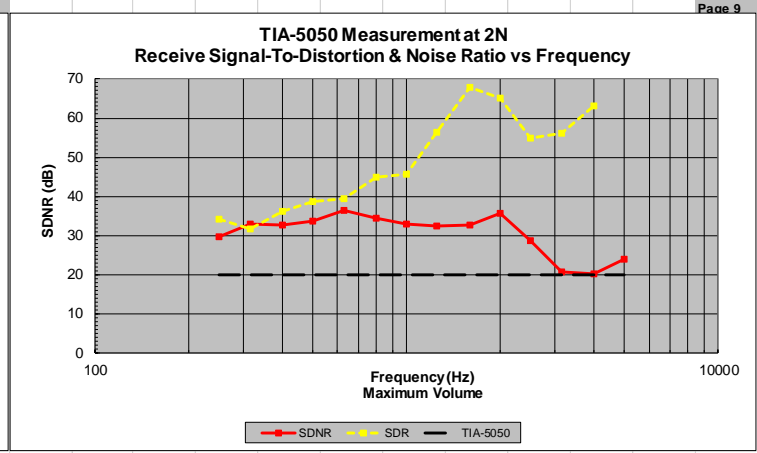
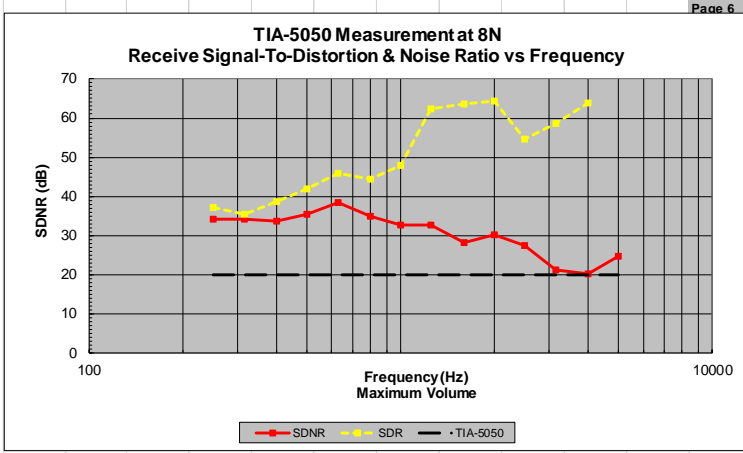
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.77 dB	info only		
	Recv conversational gain 8N	29.77 dB	18.00	PASS	
	Recv output level dB SPL 2N	92.56 dB	info only		
	Recv conversational gain 2N	22.56 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.17 dB	Absolute Limits	PASS	

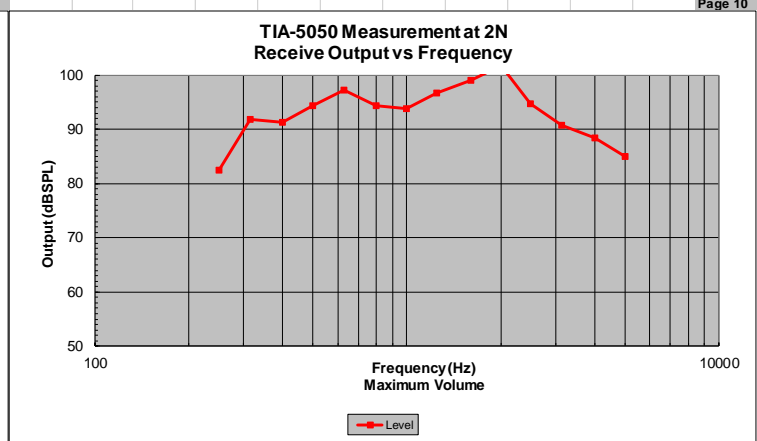
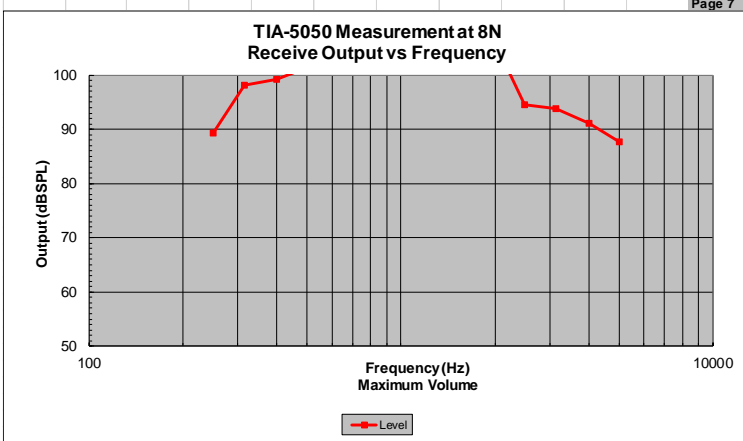
# NR n41 PC3 EVS-WB: 24.4 kbps

## Distortion Report



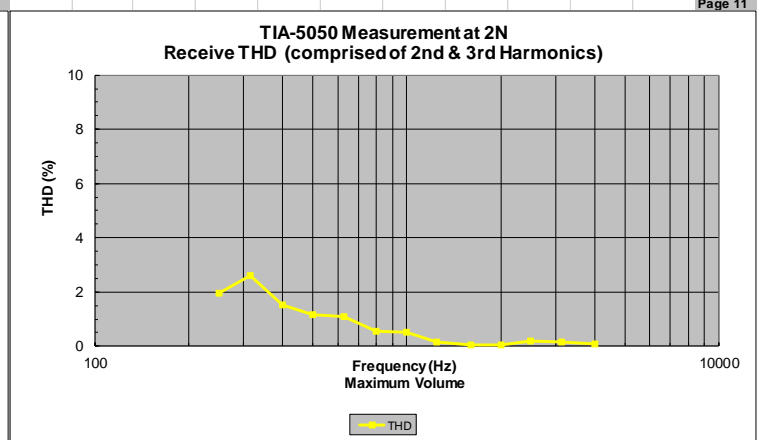
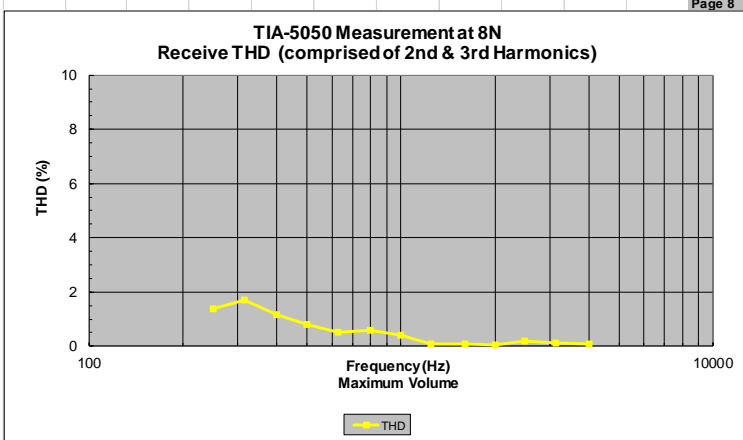
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/14/2024 16:54
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.17 dB	Absolute Limits	PASS	6/14/2024 16:54
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	24.4 kbps			



Test Date
6/14/2024 16:54
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/14/2024 16:54
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps



Test Date
6/14/2024 16:54
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/14/2024 16:54
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

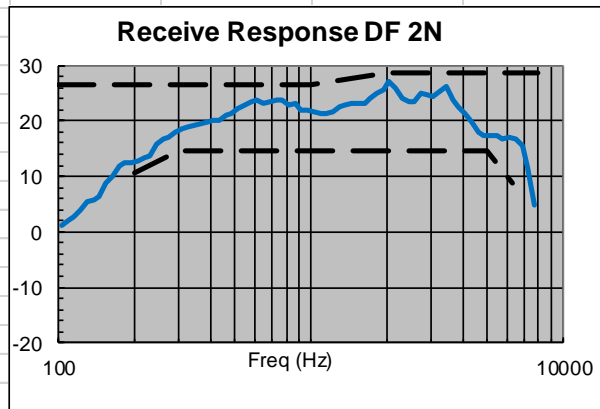
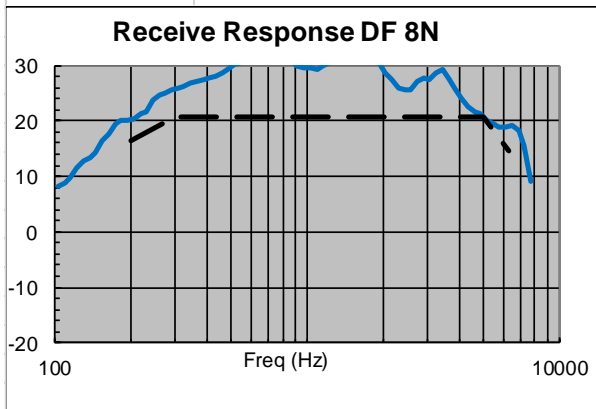
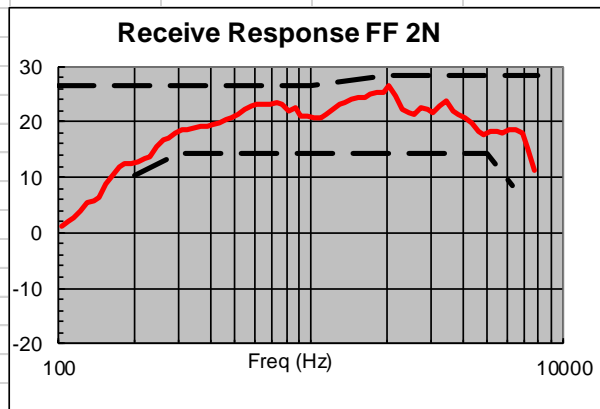
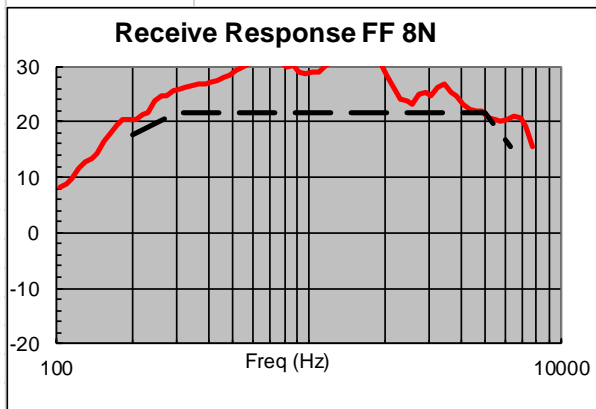
**NR n41 PC2 EVS-WB: 24.4 kbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n41 PC2 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.13 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.85 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.6 dB	Floating Limits	PASS	



**Output**

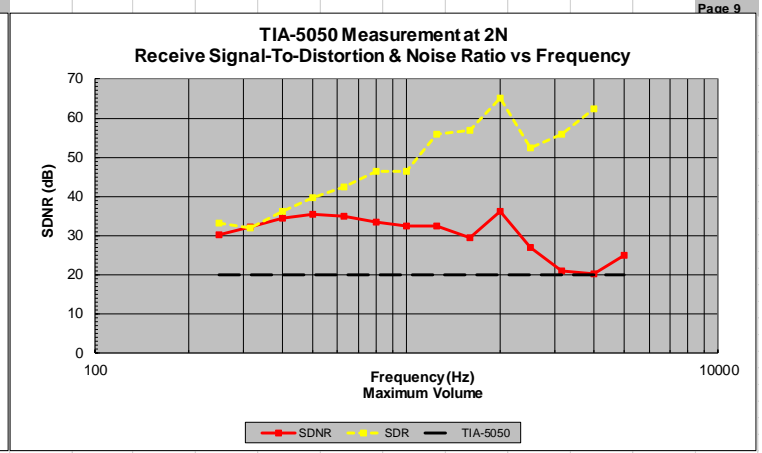
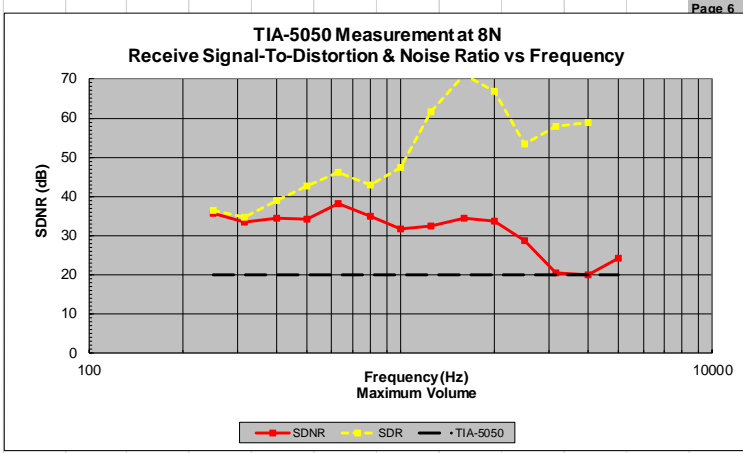
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	100.01 dB	info only		
	Recv conversational gain 8N	30.01 dB	18.00	PASS	
	Recv output level dB SPL 2N	92.19 dB	info only		
	Recv conversational gain 2N	22.19 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.26 dB	Absolute Limits	PASS	

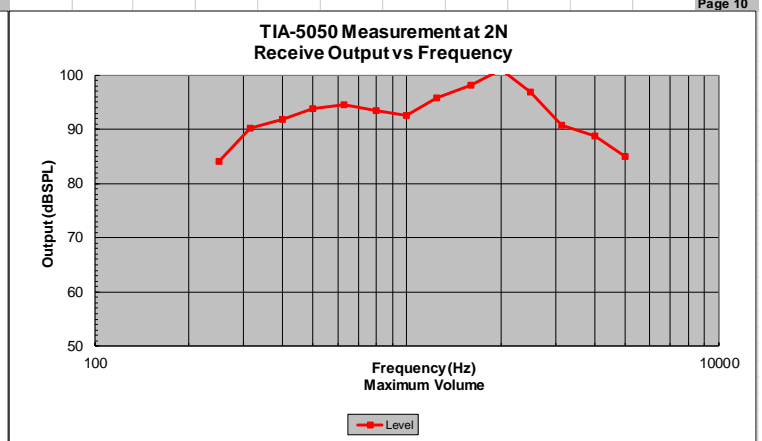
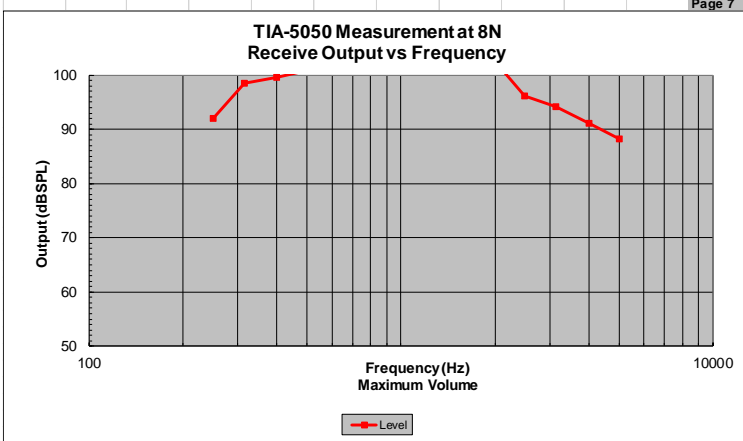
# NR n41 PC2 EVS-WB: 24.4 kbps

## Distortion Report



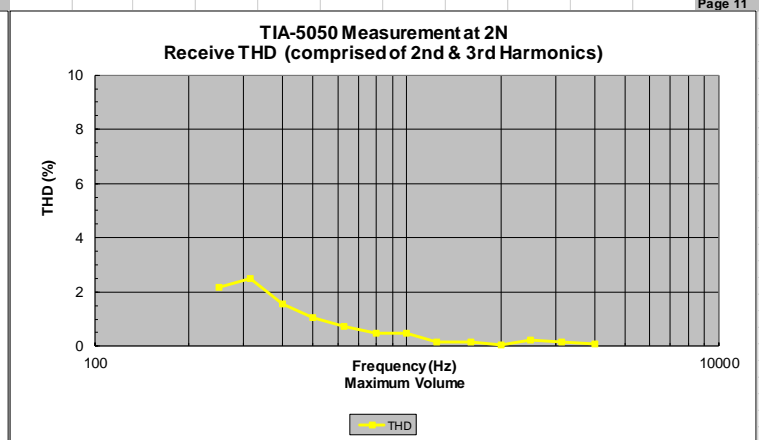
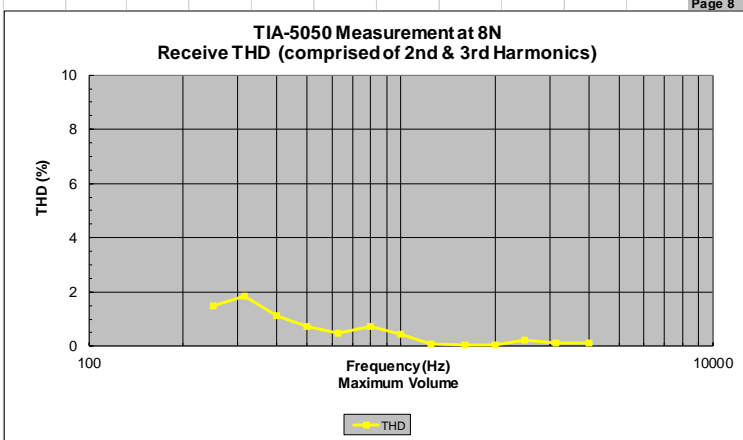
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/14/2024 19:21
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.26 dB	Absolute Limits	PASS	6/14/2024 19:21
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	24.4 kbps			



Test Date
6/14/2024 19:21
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/14/2024 19:21
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps



Test Date
6/14/2024 19:21
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/14/2024 19:21
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

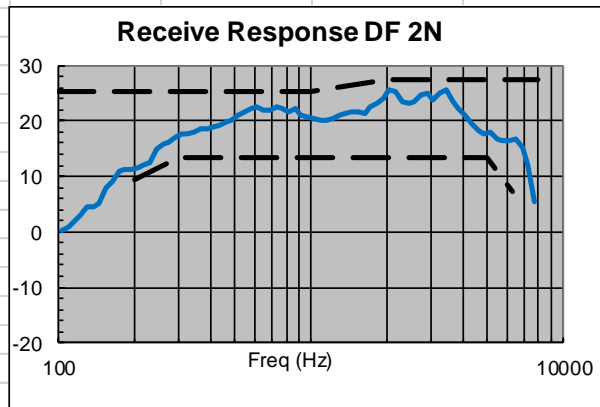
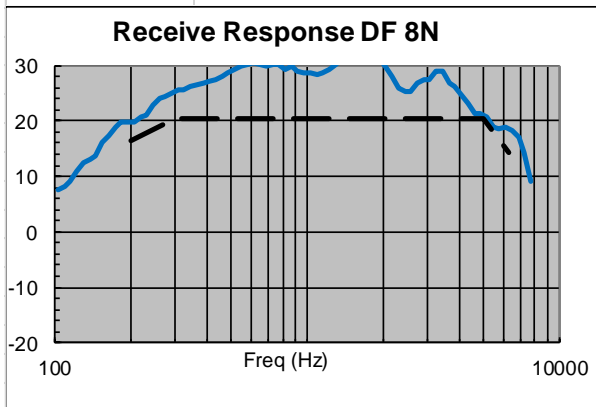
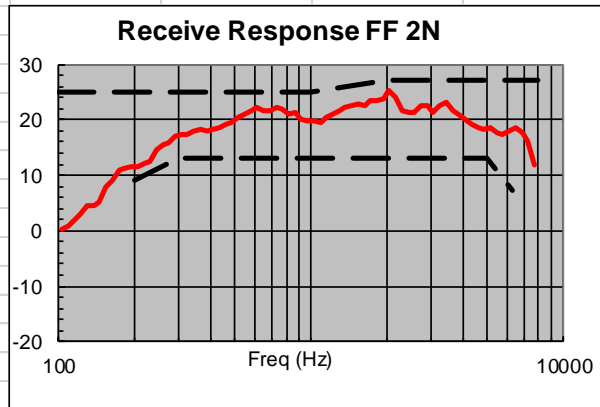
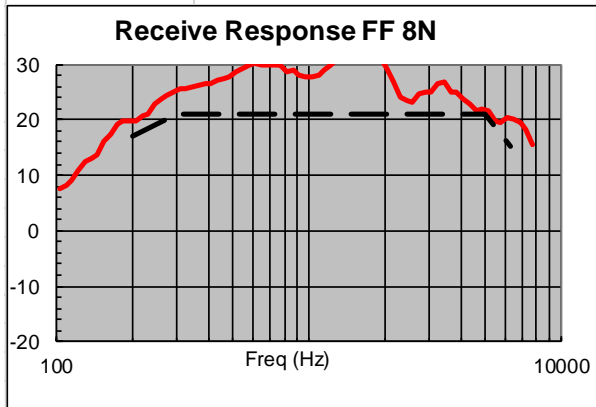
**NR n77 Block C EVS-WB: 24.4 kbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	n77 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	7/12/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.6 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.89 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.6 dB	Floating Limits	PASS	



**Output**

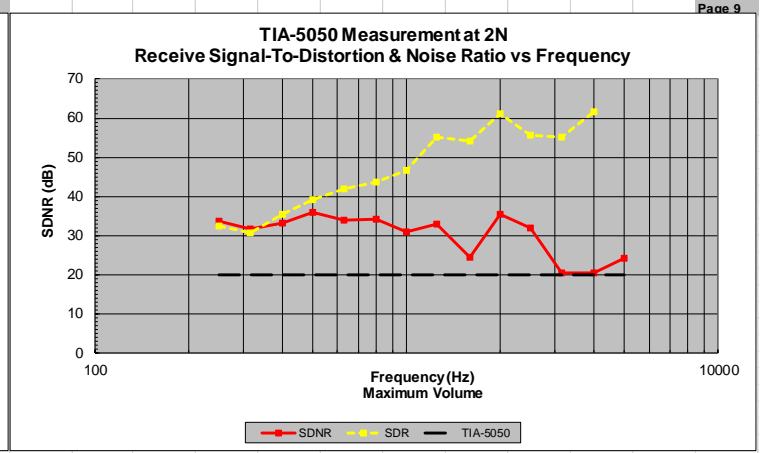
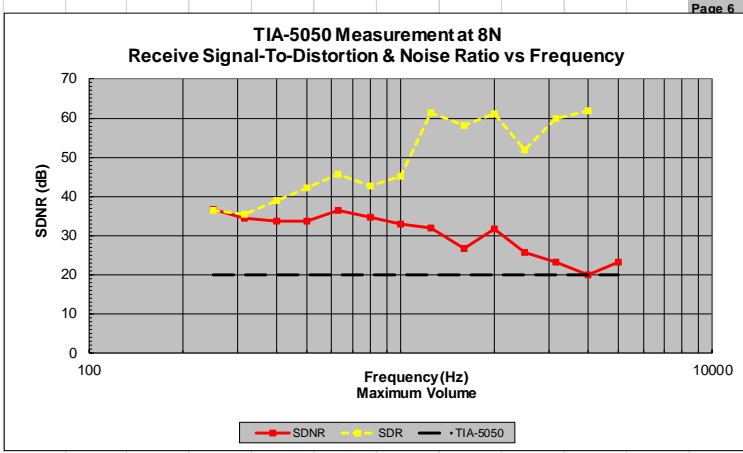
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.28 dB	info only		
	Recv conversational gain 8N	29.28 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.03 dB	info only		
	Recv conversational gain 2N	21.03 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.42 dB	Absolute Limits	PASS	

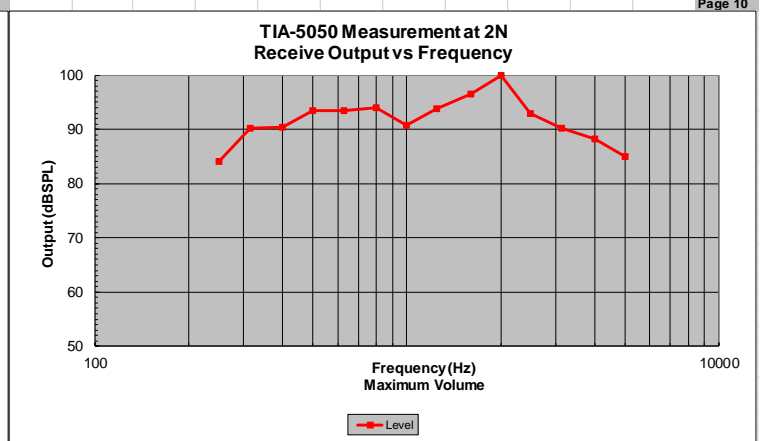
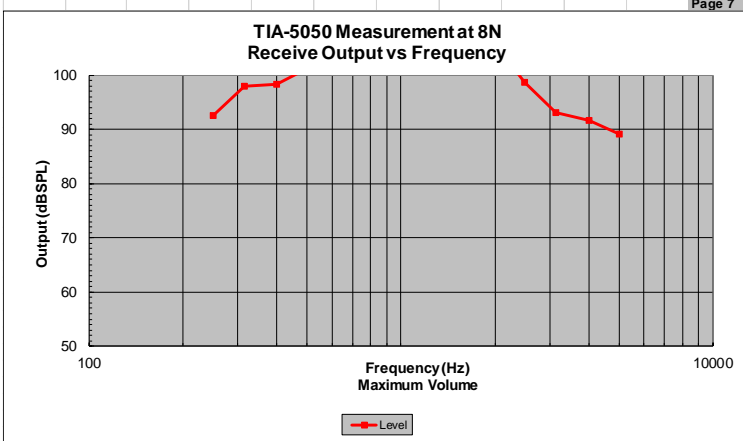
# NR n77 Block C EVS-WB: 24.4 kbps

## Distortion Report



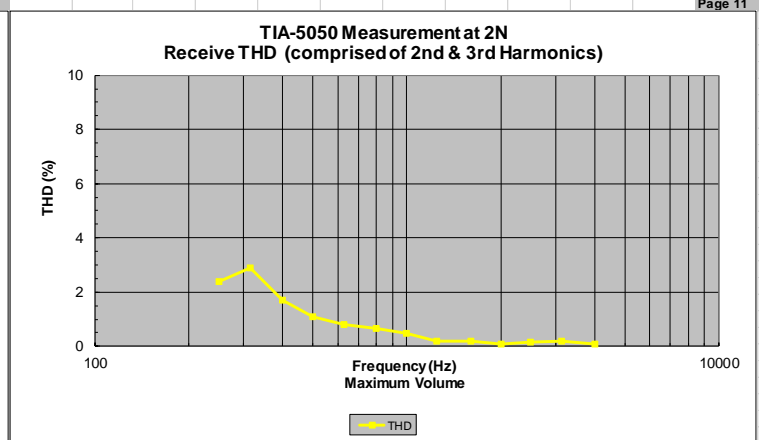
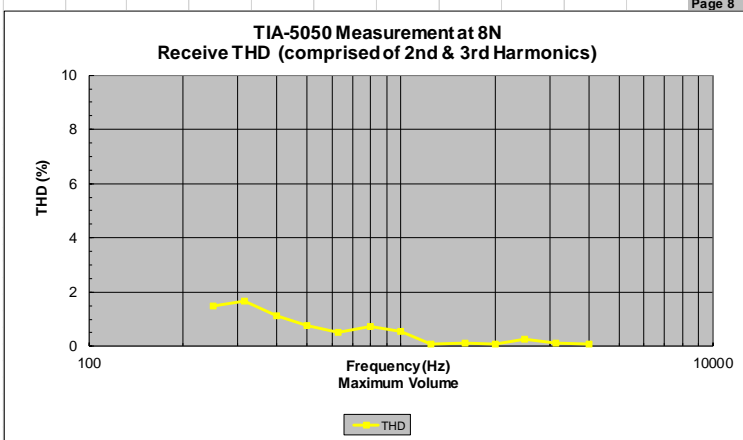
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	7/12/2024 18:09
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.42 dB	Absolute Limits	PASS	7/12/2024 18:09
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
7/12/2024 18:09		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
7/12/2024 18:09		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
7/12/2024 18:09		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

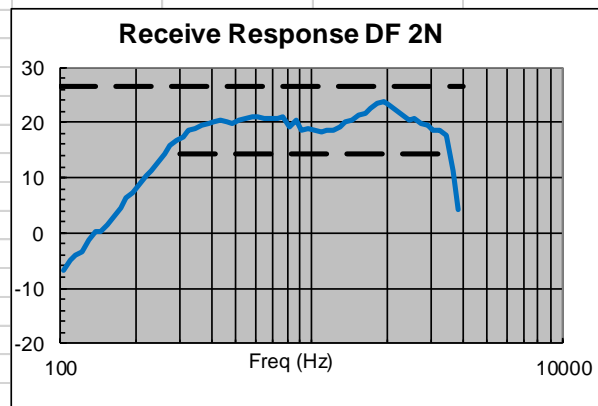
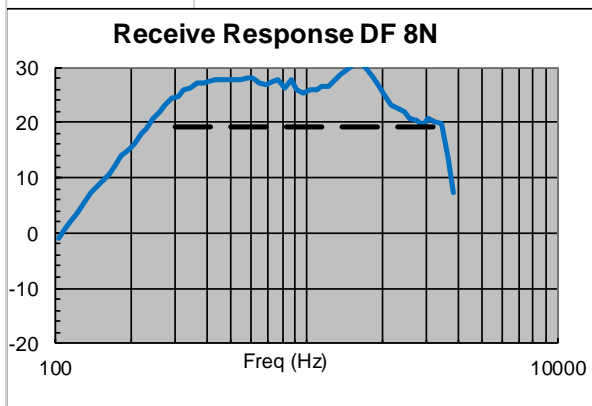
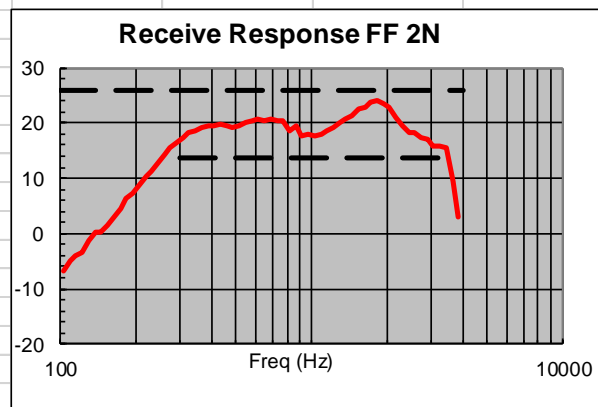
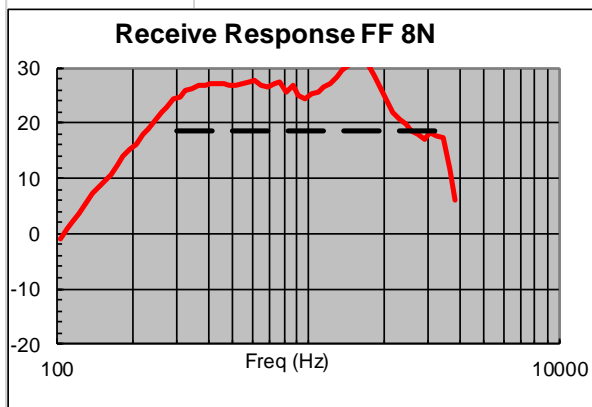
Test Date		
7/12/2024 18:09		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 5.5 Mbps**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11b CCK5.5 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-1.41 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.42 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.79 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.71 dB	Floating Limits	PASS	



**Output**

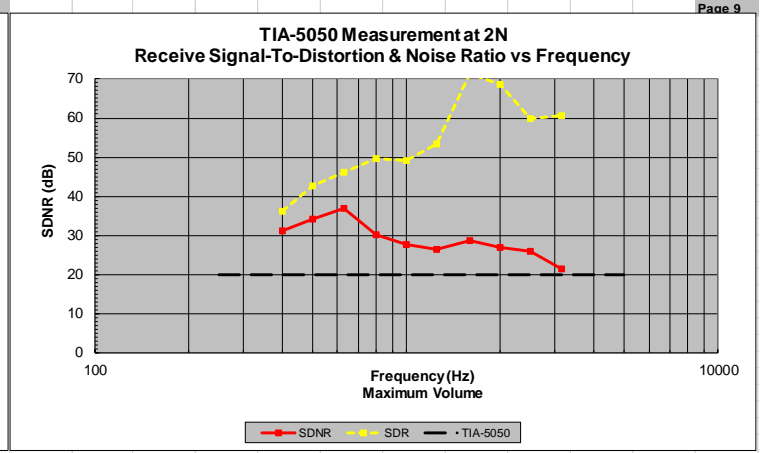
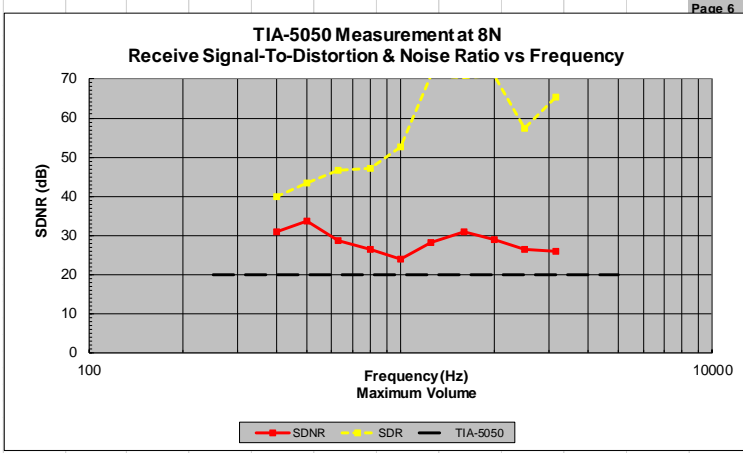
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	97.49 dB	info only		
	Recv conversational gain 8N	27.49 dB	18.00	PASS	
	Recv output level dBSPL 2N	90.23 dB	info only		
	Recv conversational gain 2N	20.23 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.56 dB	Absolute Limits	PASS	

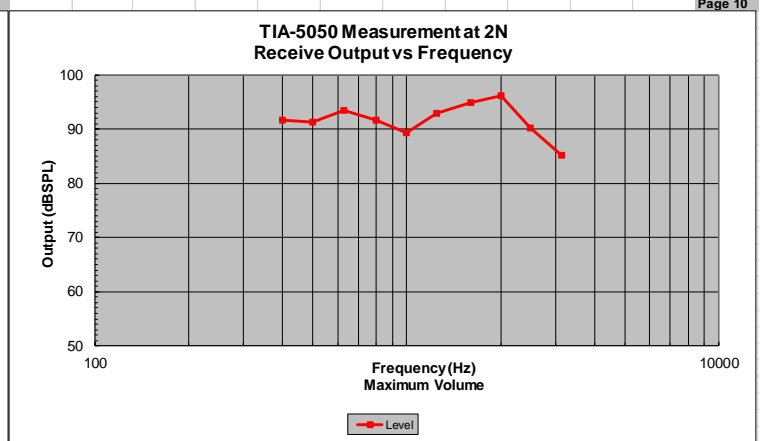
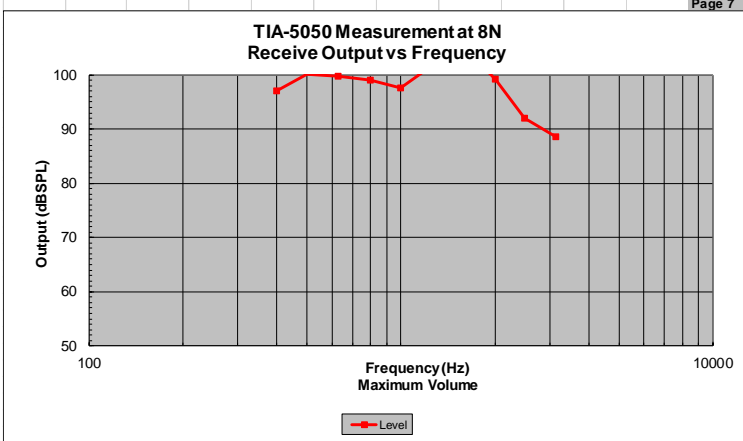
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 5.5 Mbps

## Distortion Report



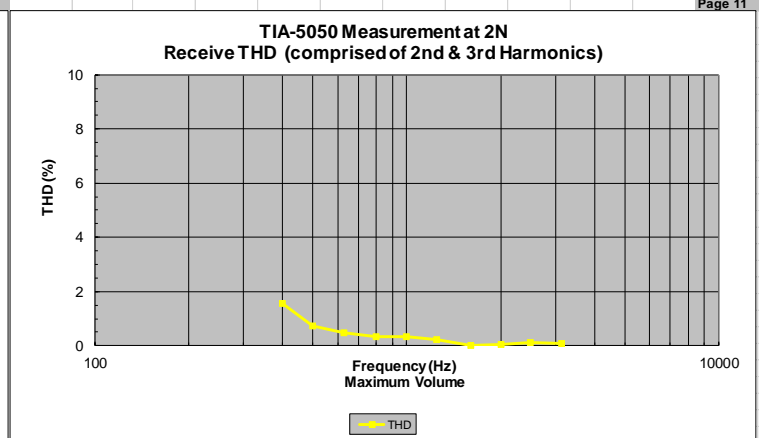
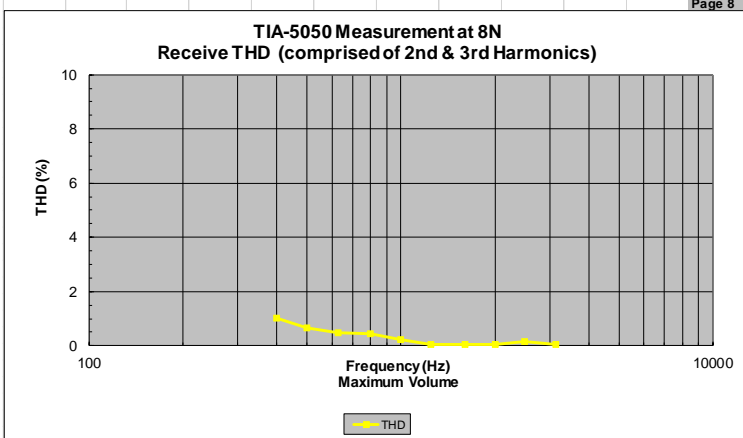
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.9 dB	Absolute Limits	PASS	6/13/2024 14:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.56 dB	Absolute Limits	PASS	6/13/2024 14:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/13/2024 14:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/13/2024 14:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/13/2024 14:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/13/2024 14:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

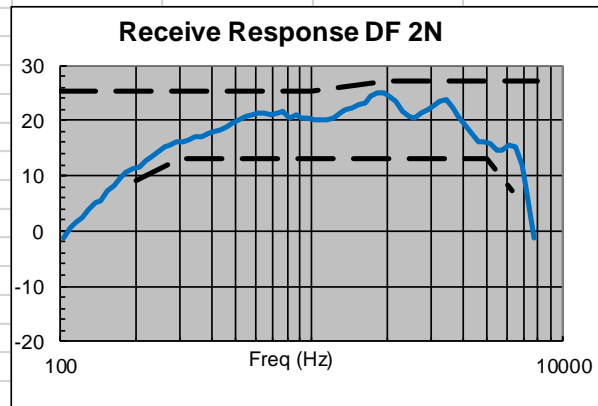
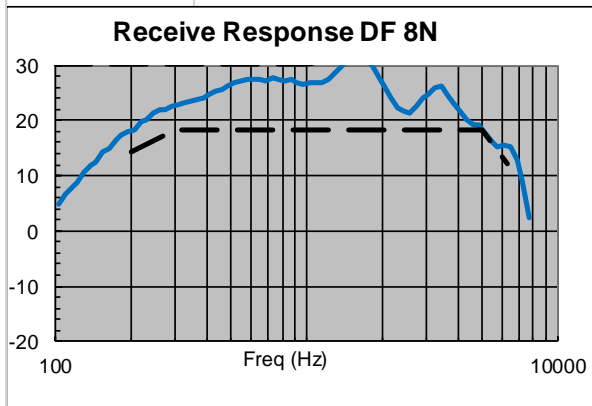
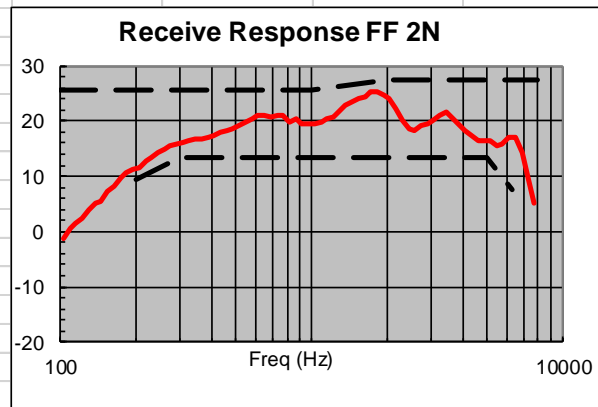
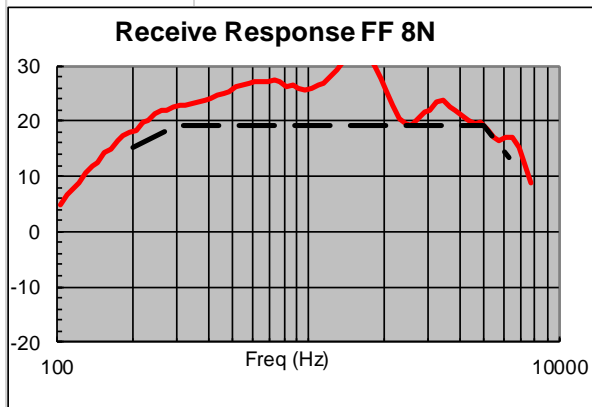


**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps CCK 11 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11b CCK11 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.2 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.82 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.1 dB	Floating Limits	PASS	



**Output**

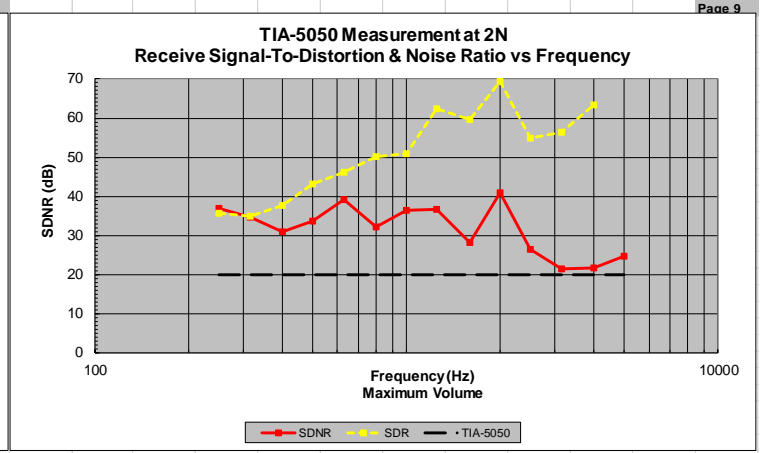
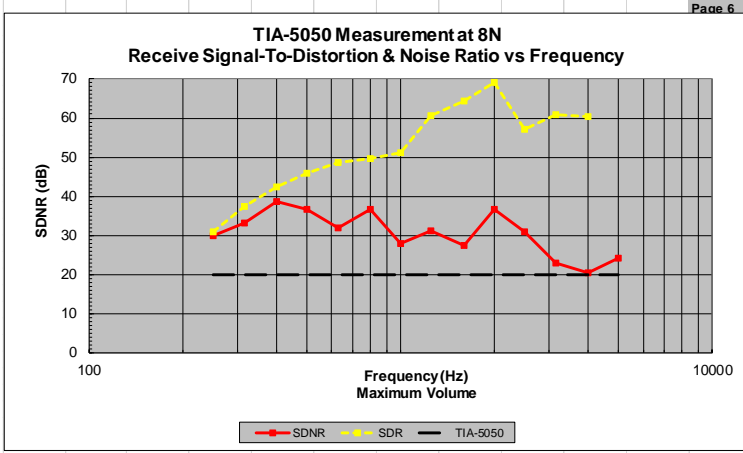
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.94 dB	info only		
	Recv conversational gain 8N	26.94 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.4 dB	info only		
	Recv conversational gain 2N	20.4 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.6 dB	Absolute Limits	PASS	

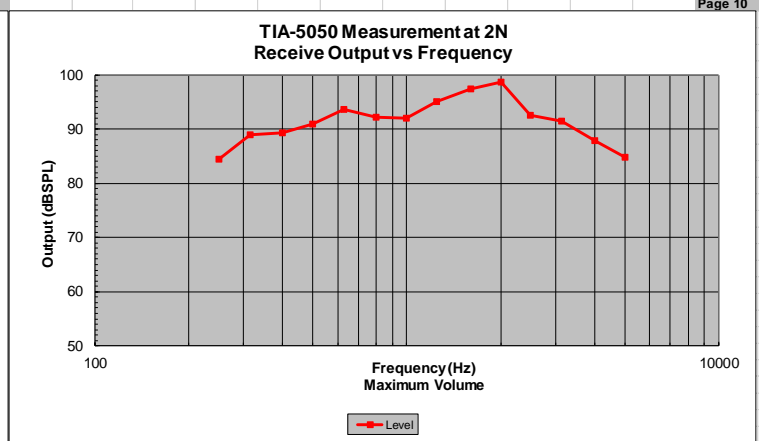
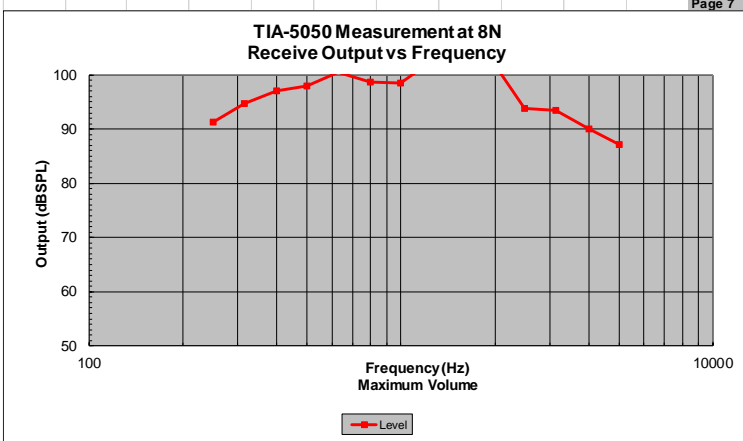
# Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps CCK 11 Mbps

## Distortion Report



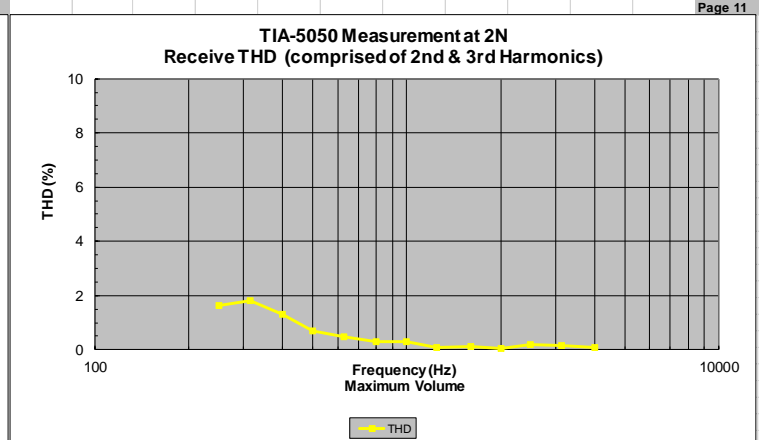
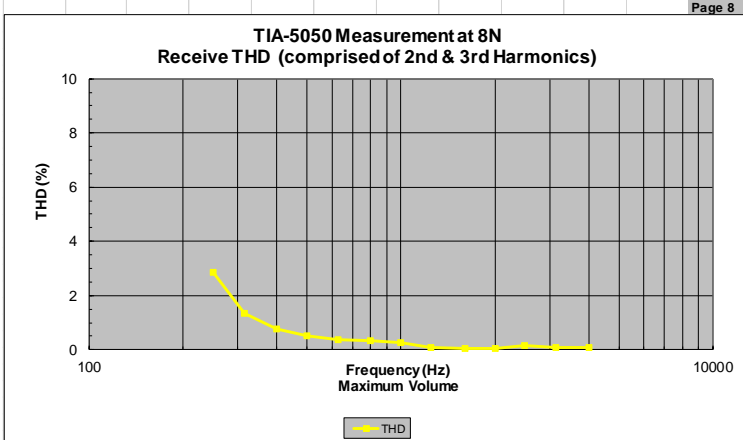
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	6/13/2024 17:06
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.6 dB	Absolute Limits	PASS	6/13/2024 17:06
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			



Test Date
6/13/2024 17:06
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/13/2024 17:06
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps



Test Date
6/13/2024 17:06
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

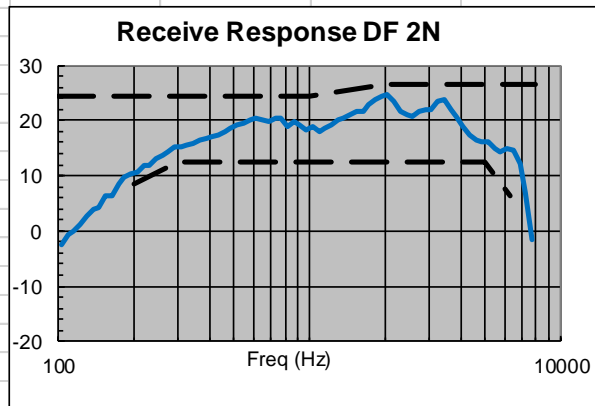
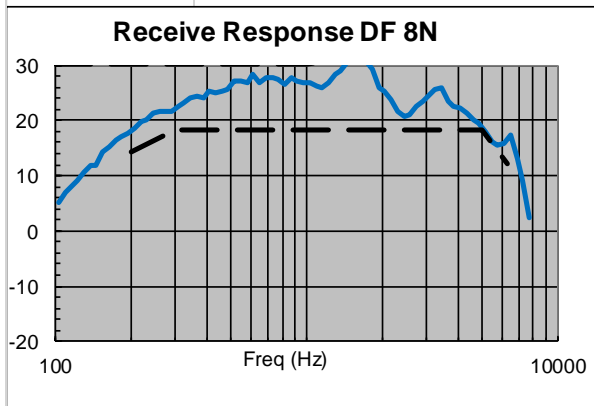
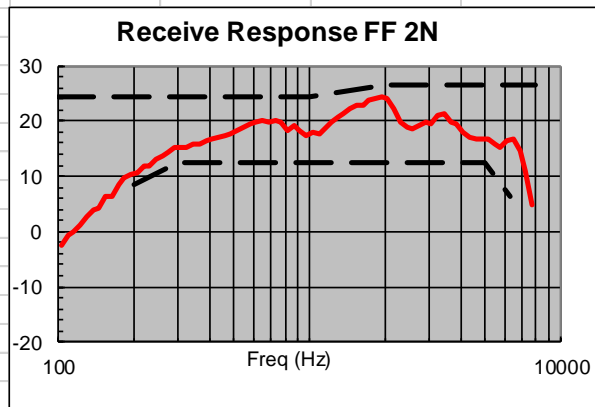
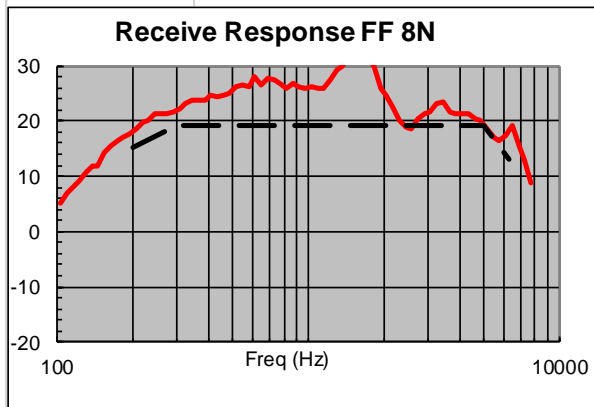
Test Date
6/13/2024 17:06
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps 64QAM 54 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11g 64QAM EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.36 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.92 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.8 dB	Floating Limits	PASS	



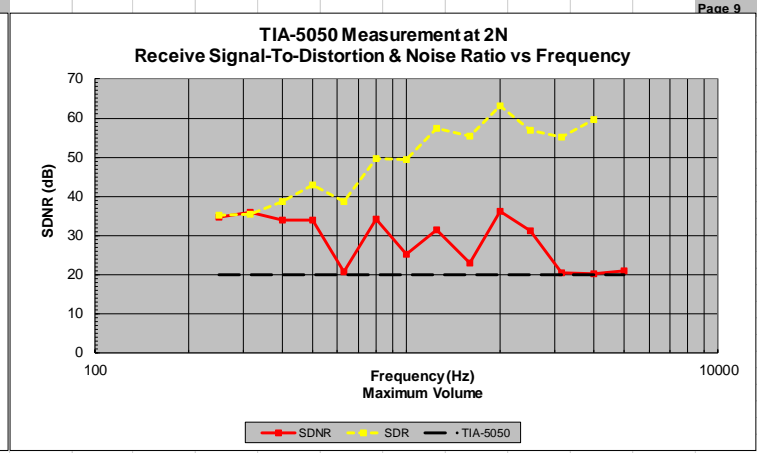
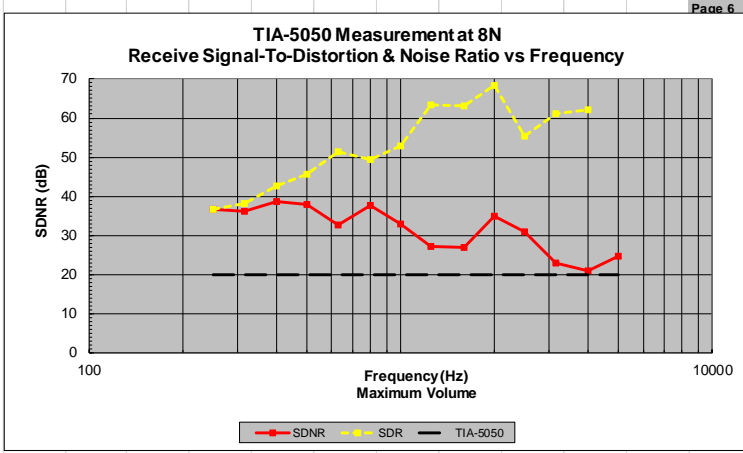
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	96.81 dB	info only		
	Recv conversational gain 8N	26.81 dB	18.00	PASS	
	Recv output level dBSPL 2N	89.35 dB	info only		
	Recv conversational gain 2N	19.35 dB	6.00	PASS	

**Distortion**

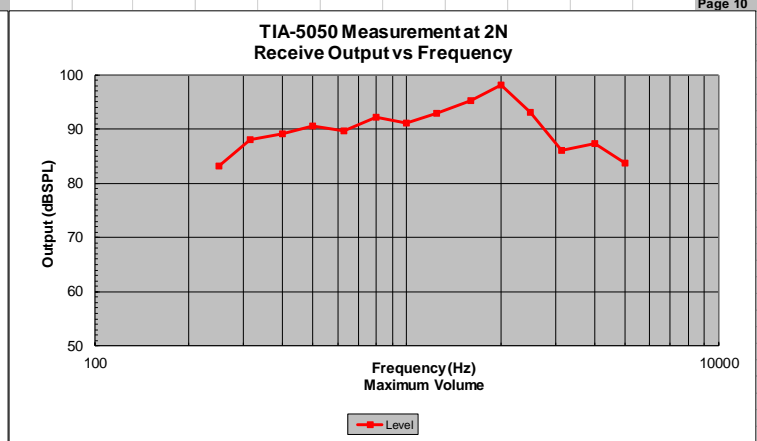
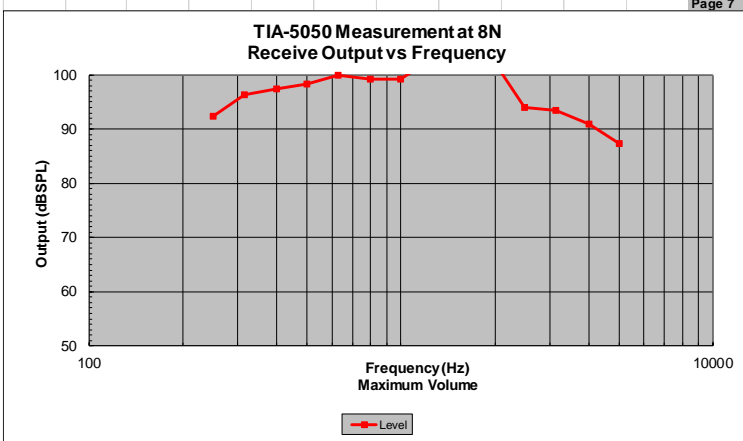
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.17 dB	Absolute Limits	PASS	

# Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps 64QAM 54 Mbps Distortion Report



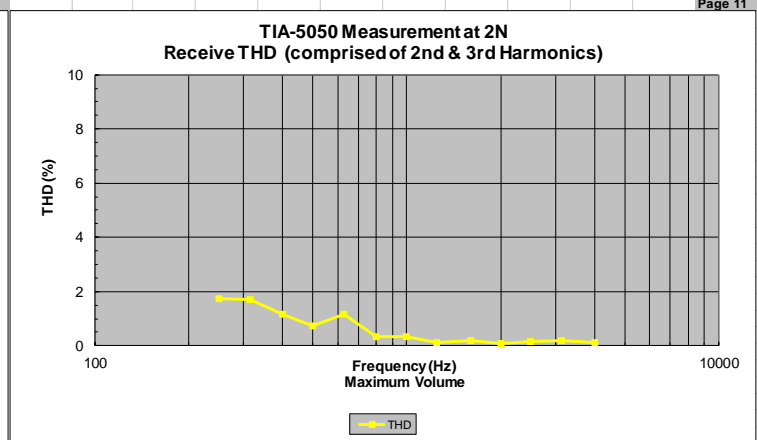
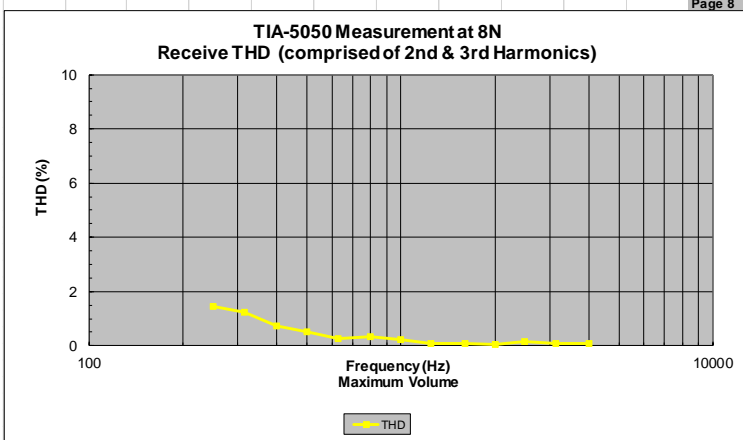
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.9 dB	Absolute Limits	PASS	6/13/2024 18:16
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.17 dB	Absolute Limits	PASS	6/13/2024 18:16
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			



Test Date
6/13/2024 18:16
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/13/2024 18:16
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps



Test Date
6/13/2024 18:16
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

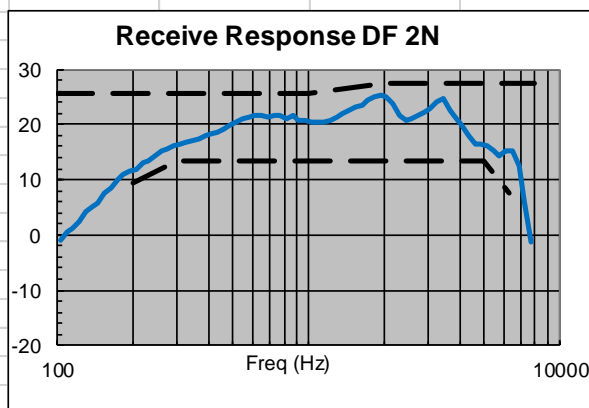
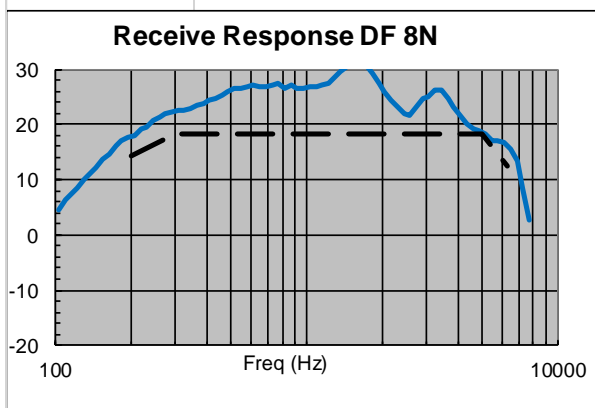
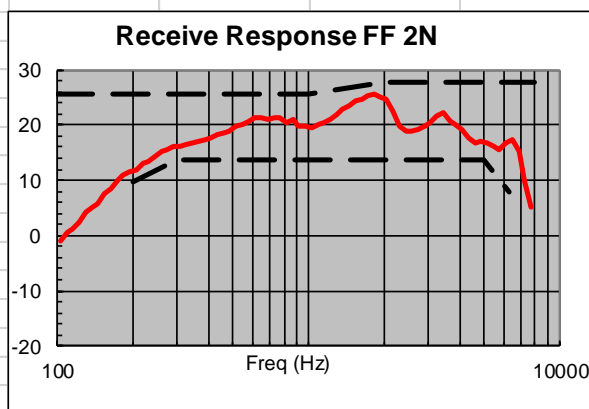
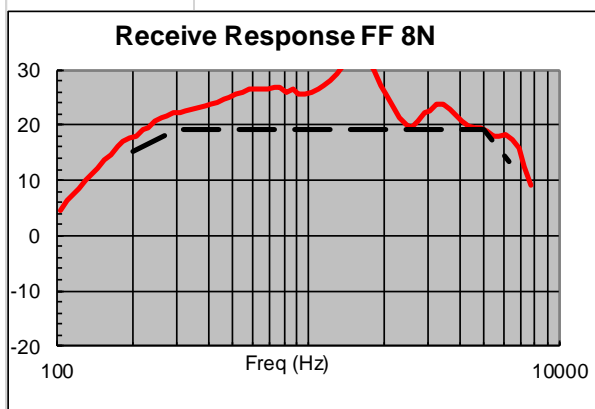
Test Date
6/13/2024 18:16
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS7 65 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11n MCS7 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.05 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.94 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.2 dB	Floating Limits	PASS	



**Output**

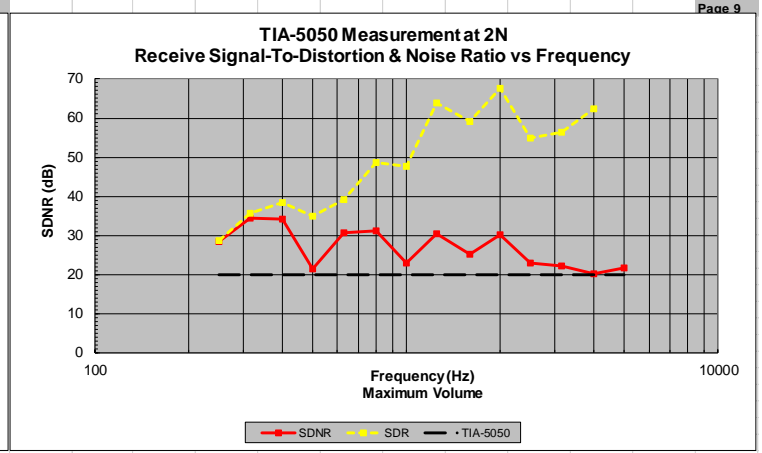
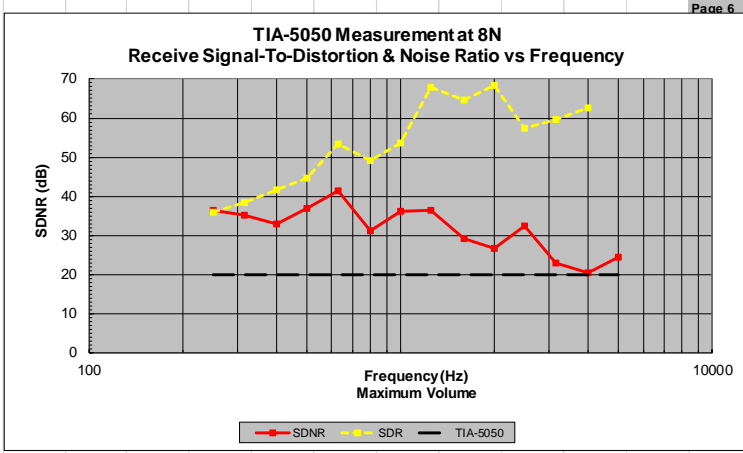
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.63 dB	info only		
	Recv conversational gain 8N	26.63 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.69 dB	info only		
	Recv conversational gain 2N	20.69 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.24 dB	Absolute Limits	PASS	

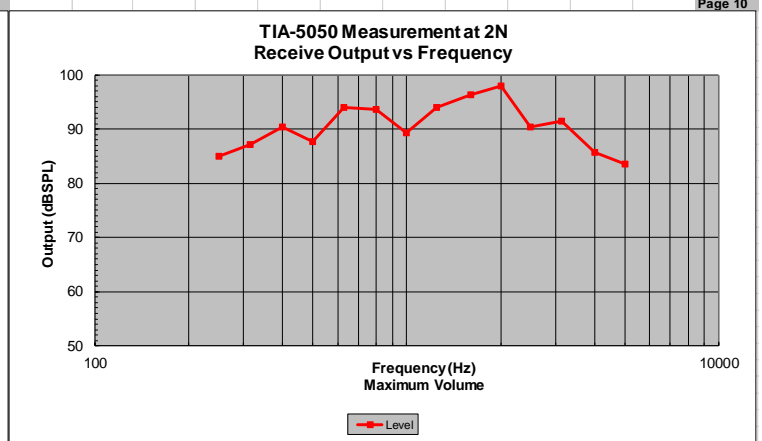
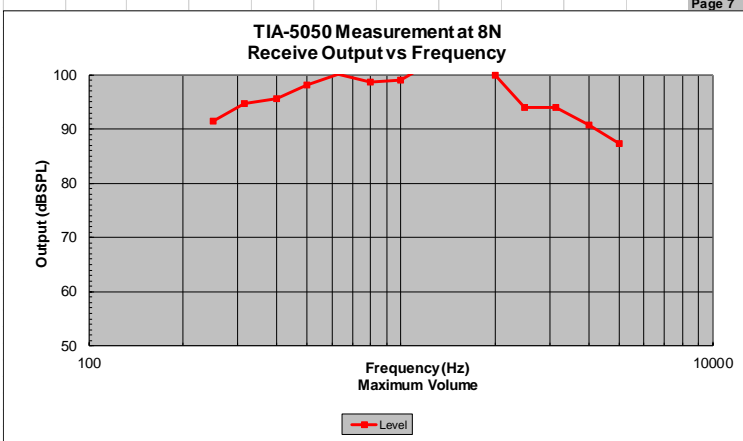
# Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS7 65 Mbps

## Distortion Report



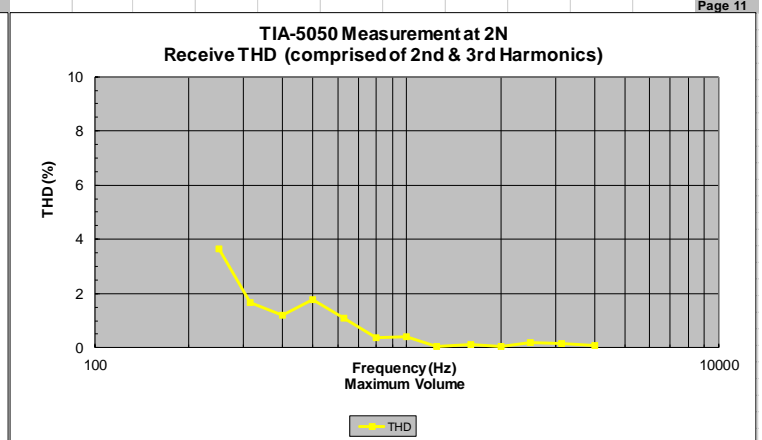
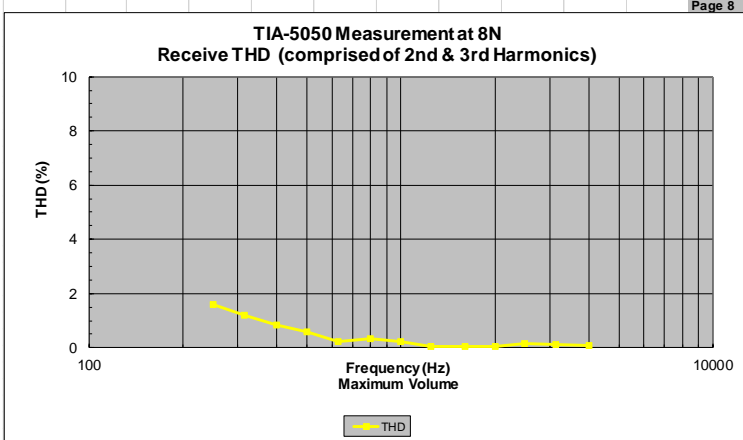
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	6/13/2024 19:57
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.24 dB	Absolute Limits	PASS	6/13/2024 19:57
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date	
6/13/2024 19:57	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 19:57	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 19:57	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

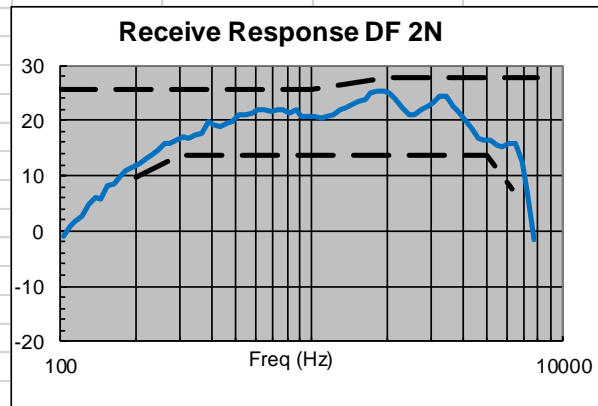
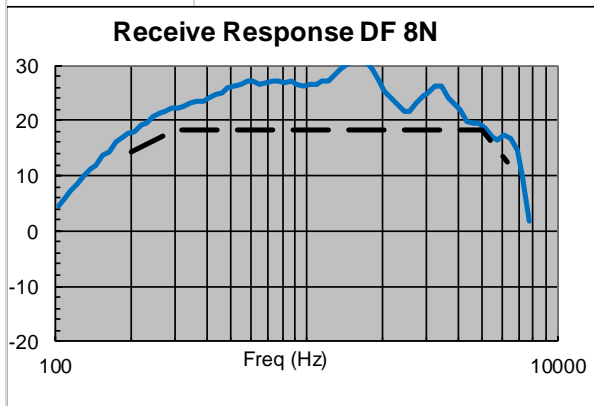
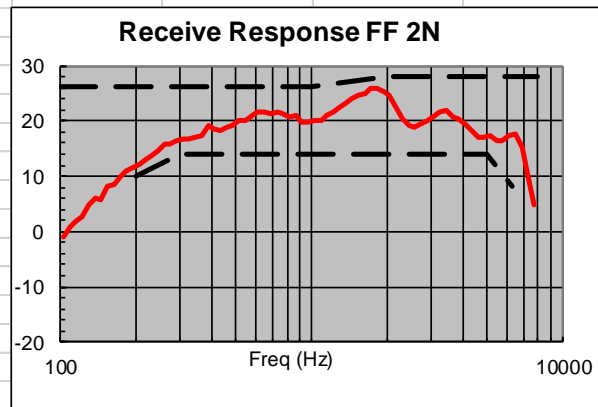
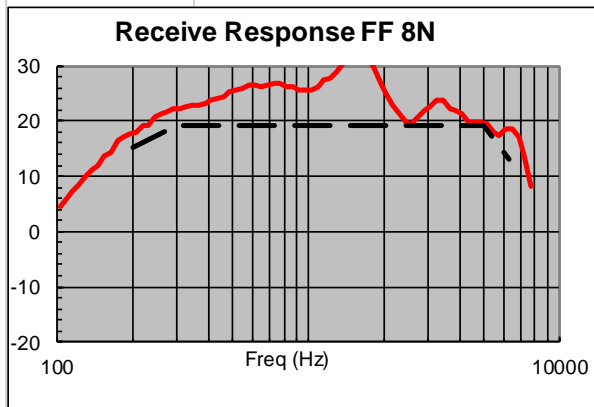
Test Date	
6/13/2024 19:57	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS7 65 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ac MCS7 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.3 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.83 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.1 dB	Floating Limits	PASS	



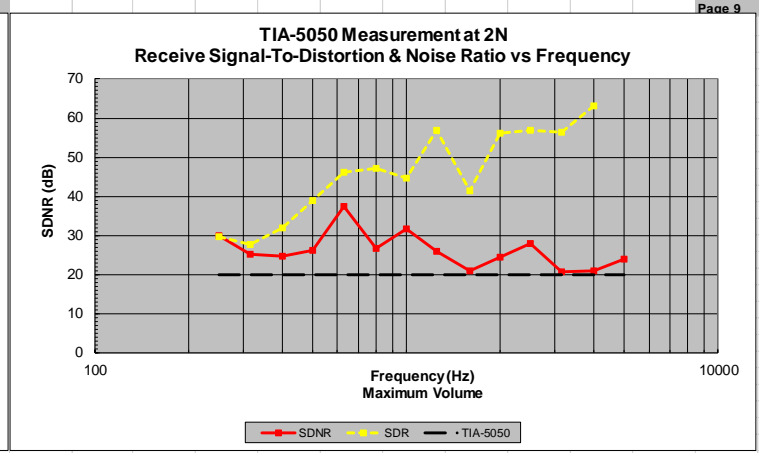
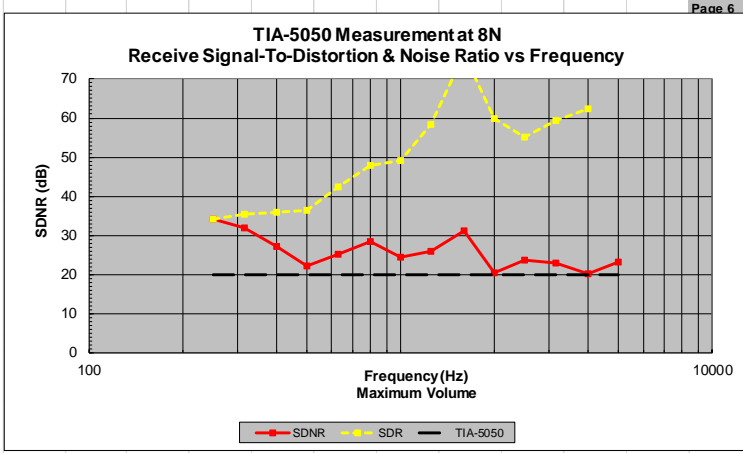
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.53 dB	info only		
	Recv conversational gain 8N	26.53 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.97 dB	info only		
	Recv conversational gain 2N	20.97 dB	6.00	PASS	

**Distortion**

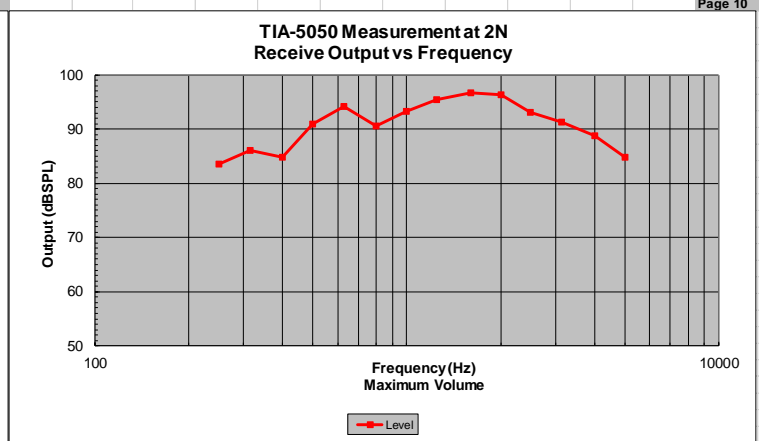
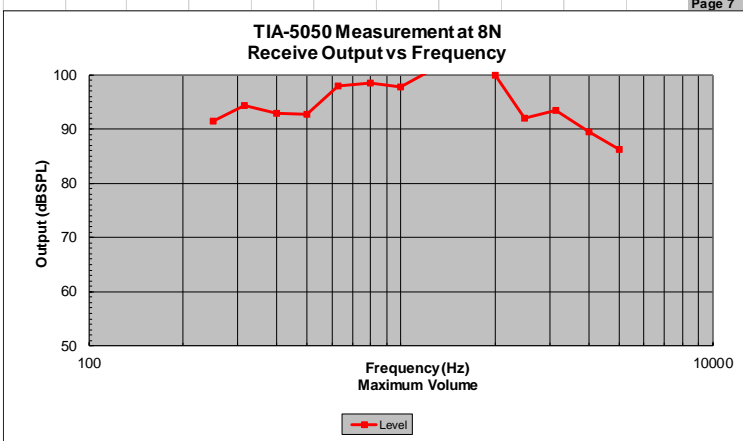
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.67 dB	Absolute Limits	PASS	

# Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS7 65 Mbps Distortion Report



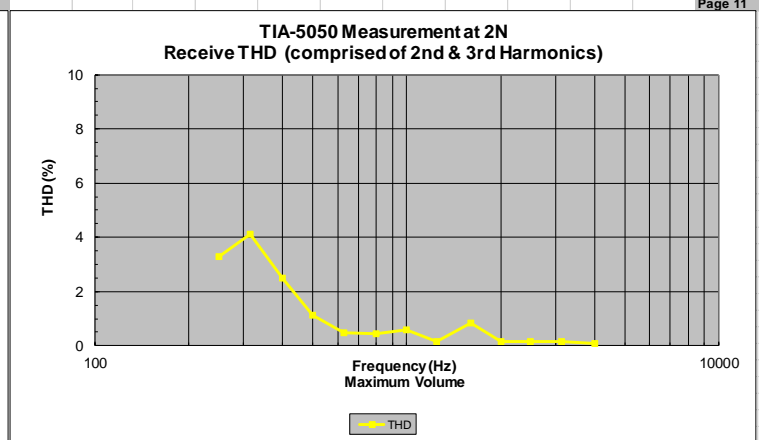
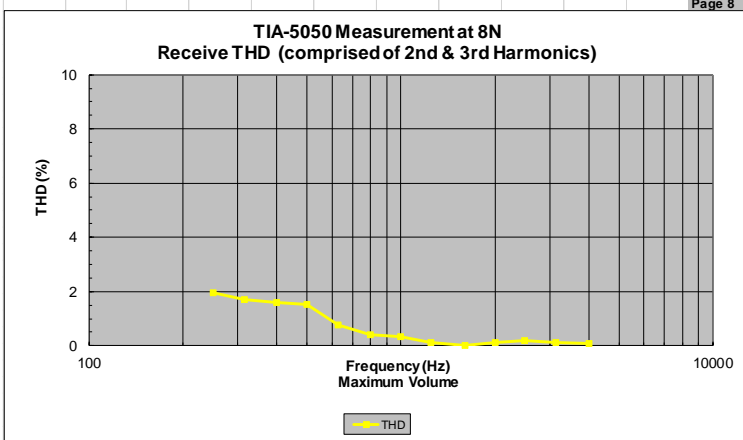
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/13/2024 20:21
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.67 dB	Absolute Limits	PASS	6/13/2024 20:21
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/13/2024 20:21		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 20:21		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/13/2024 20:21		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 20:21		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

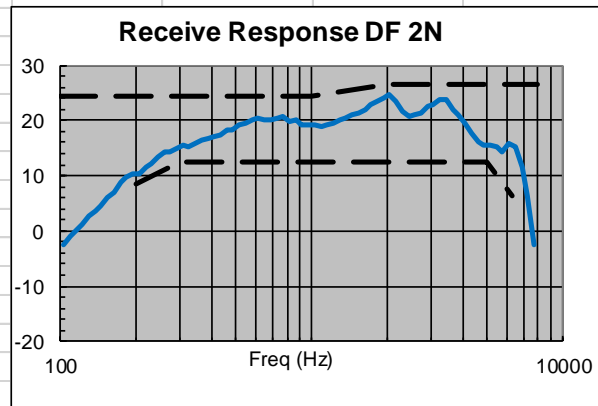
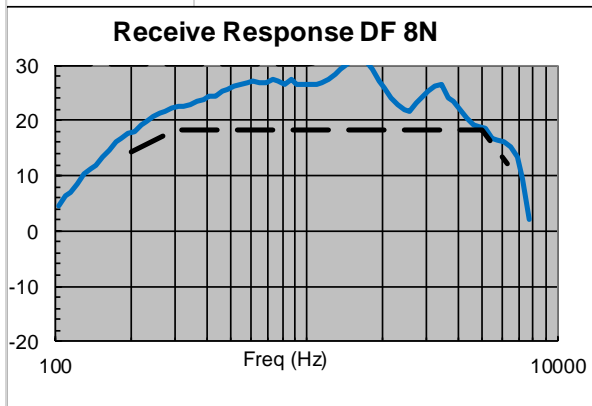
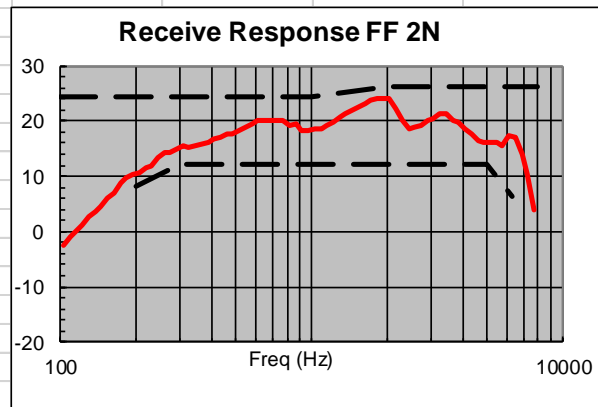
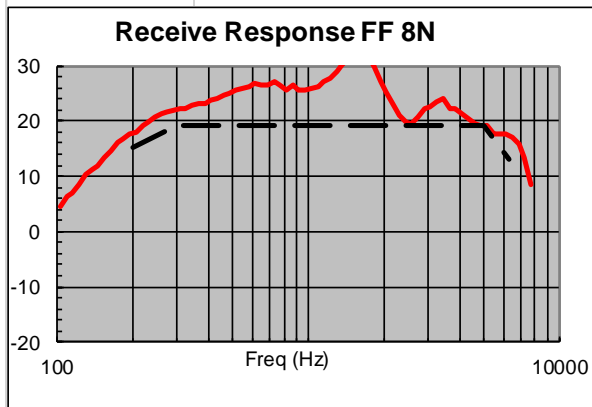


**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS9 97.5 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ax MCS9 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.07 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.99 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.8 dB	Floating Limits	PASS	



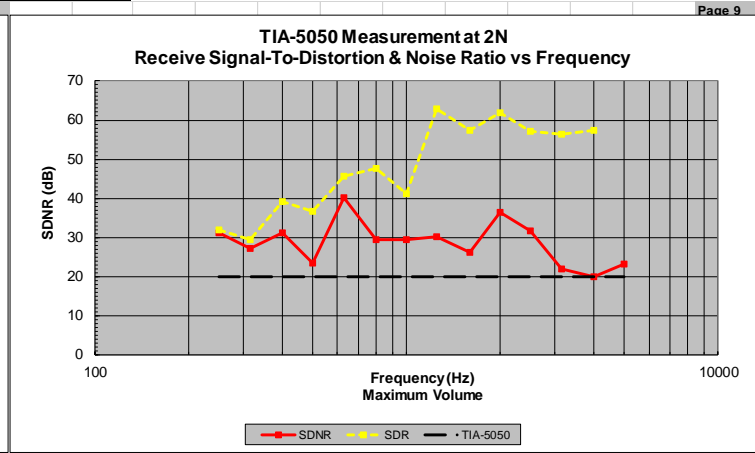
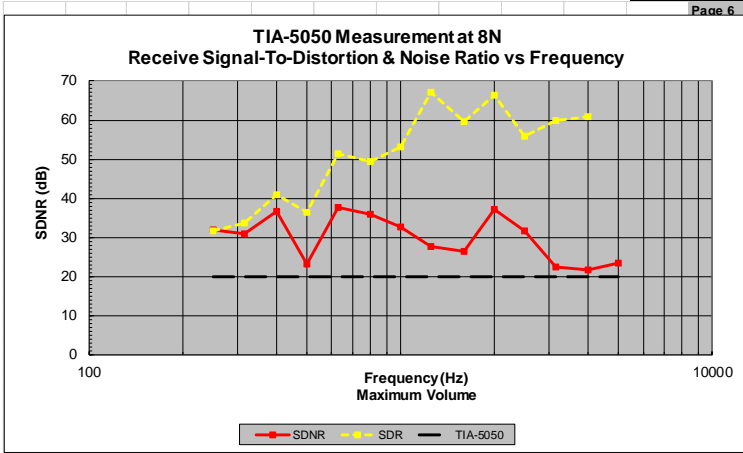
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	96.53 dB	info only		
	Recv conversational gain 8N	26.53 dB	18.00	PASS	
	Recv output level dBSPL 2N	89.46 dB	info only		
	Recv conversational gain 2N	19.46 dB	6.00	PASS	

**Distortion**

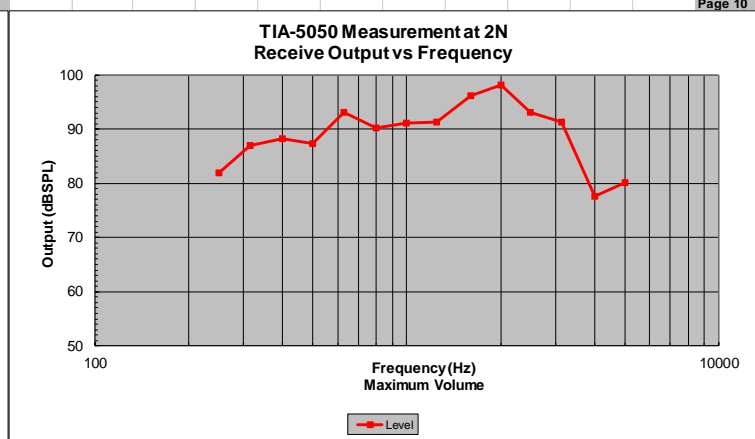
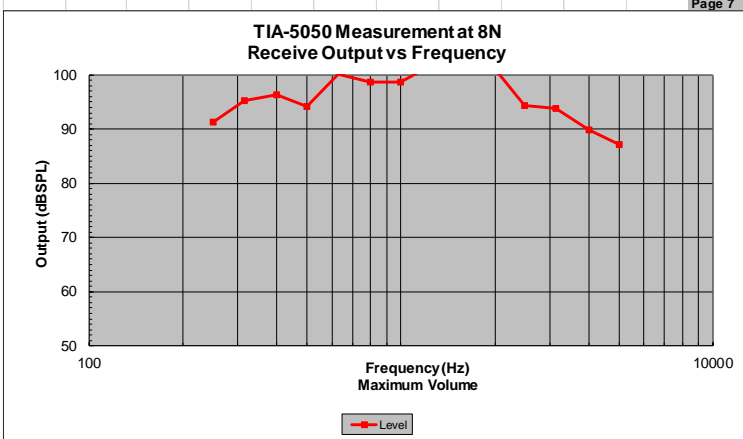
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.03 dB	Absolute Limits	PASS	

# Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS9 97.5 Mbps Distortion Report



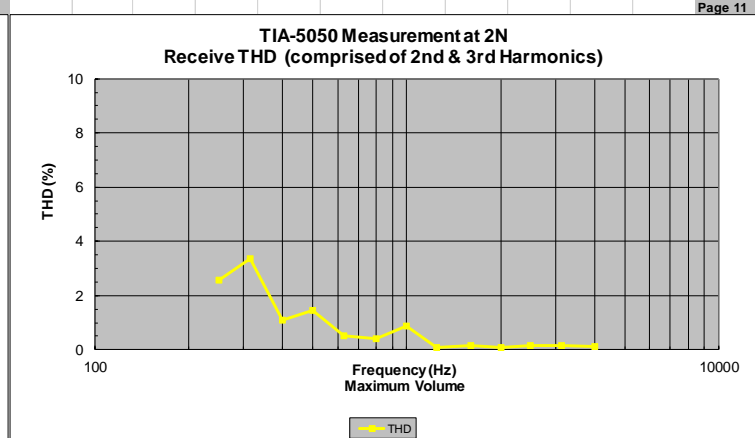
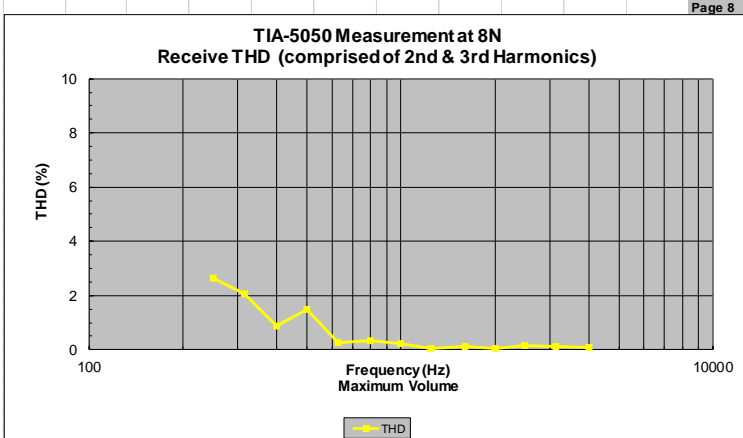
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	6/13/2024 20:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.03 dB	Absolute Limits	PASS	6/13/2024 20:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			



Test Date	
6/13/2024 20:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 20:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 20:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

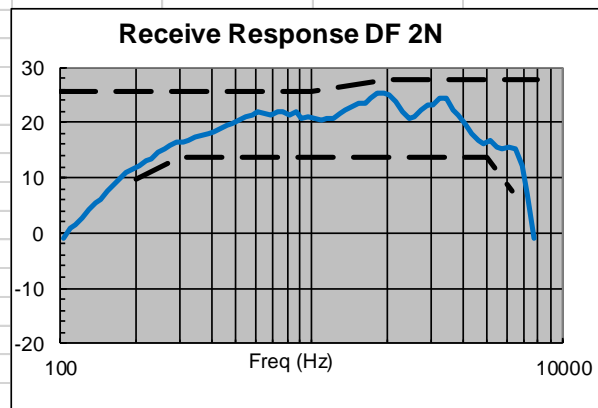
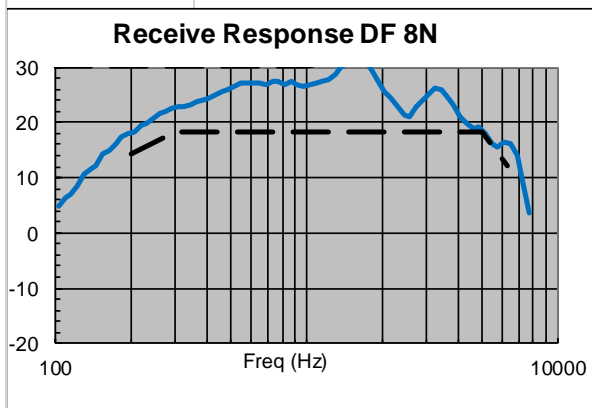
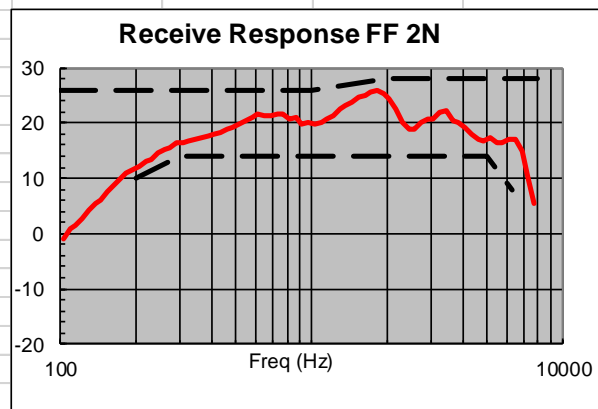
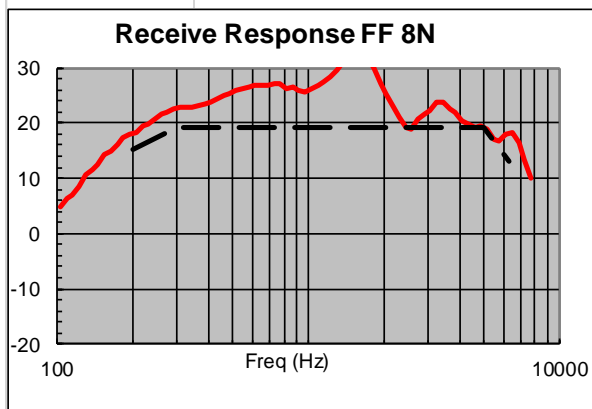
Test Date	
6/13/2024 20:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps 64QAM 54 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11a 64QAM EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.29 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.9 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.1 dB	Floating Limits	PASS	



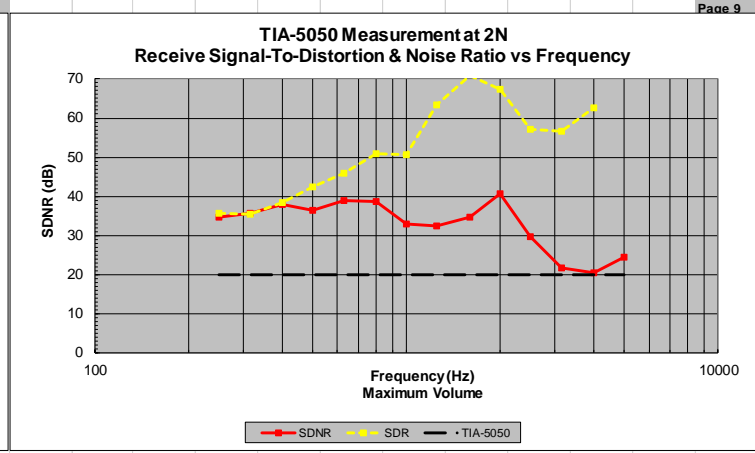
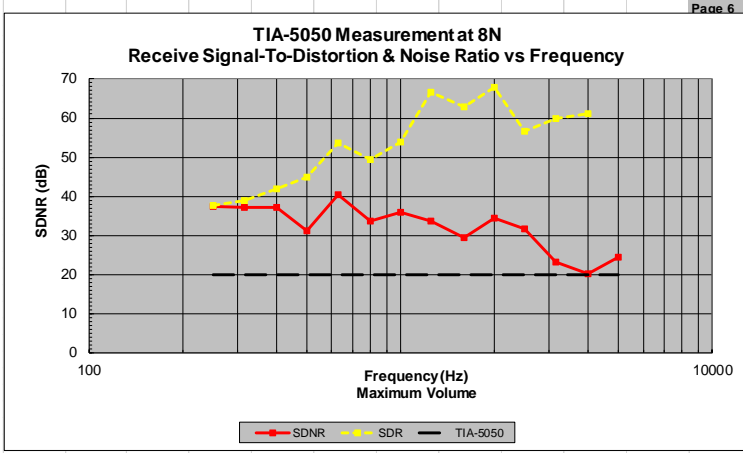
**Output**

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.84 dB	info only		
	Recv conversational gain 8N	26.84 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.87 dB	info only		
	Recv conversational gain 2N	20.87 dB	6.00	PASS	

**Distortion**

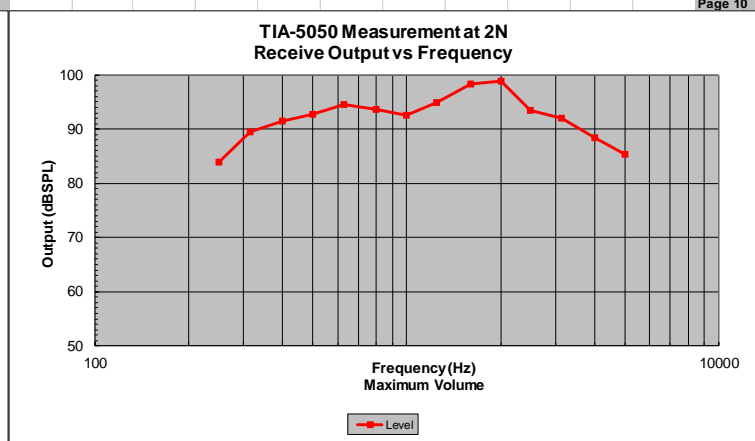
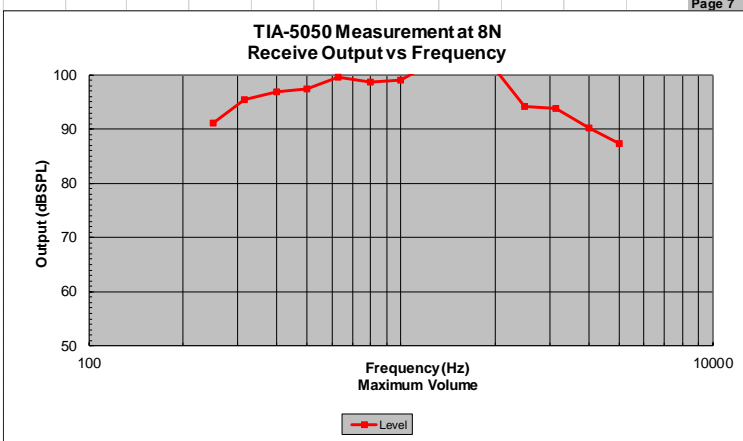
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.55 dB	Absolute Limits	PASS	

# Wi-Fi 5 GHz EVS-WB: 24.4 kbps 64QAM 54 Mbps Distortion Report



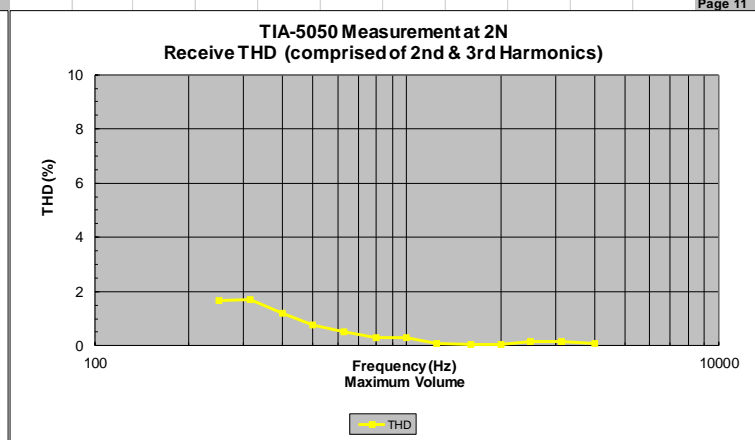
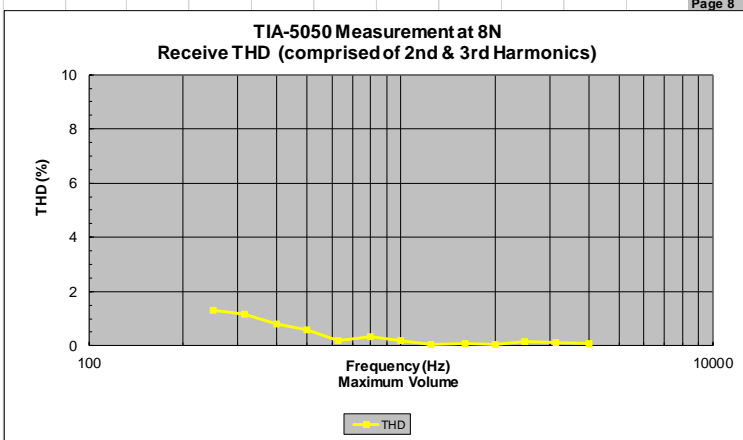
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/13/2024 20:55
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.55 dB	Absolute Limits	PASS	6/13/2024 20:55
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			



Test Date		
6/13/2024 20:55		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/13/2024 20:55		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/13/2024 20:55		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

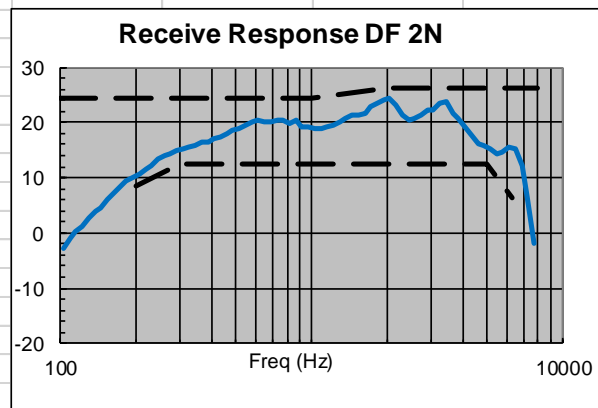
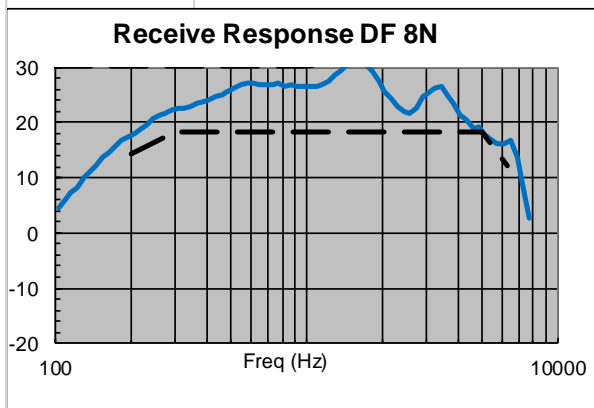
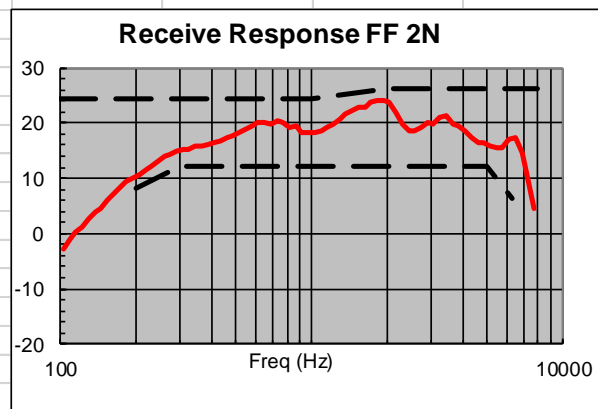
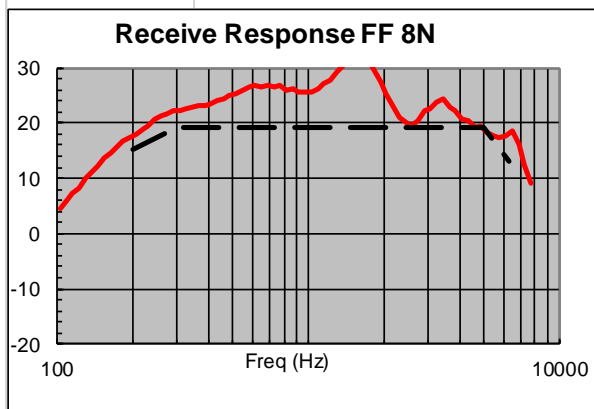
Test Date		
6/13/2024 20:55		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS7 135 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11n40 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.05 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.9 dB	Floating Limits	PASS	



**Output**

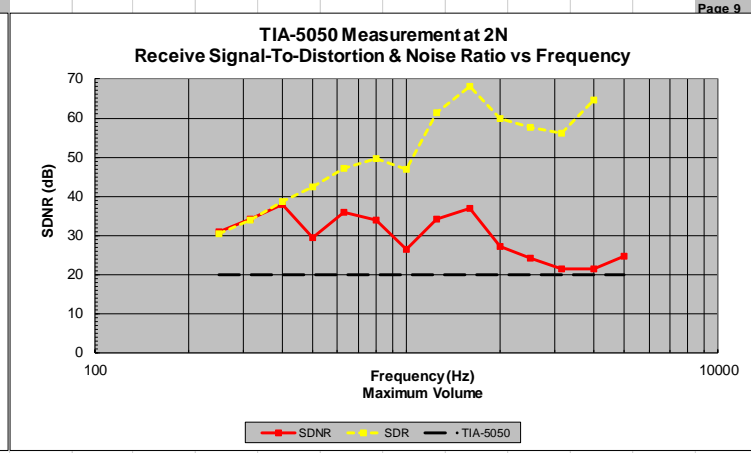
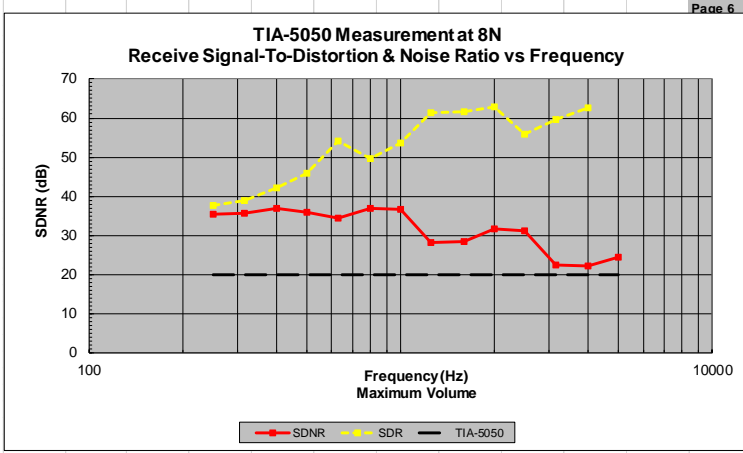
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	96.54 dB	info only		
	Recv conversational gain 8N	26.54 dB	18.00	PASS	
	Recv output level dBSPL 2N	89.41 dB	info only		
	Recv conversational gain 2N	19.41 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.58 dB	Absolute Limits	PASS	

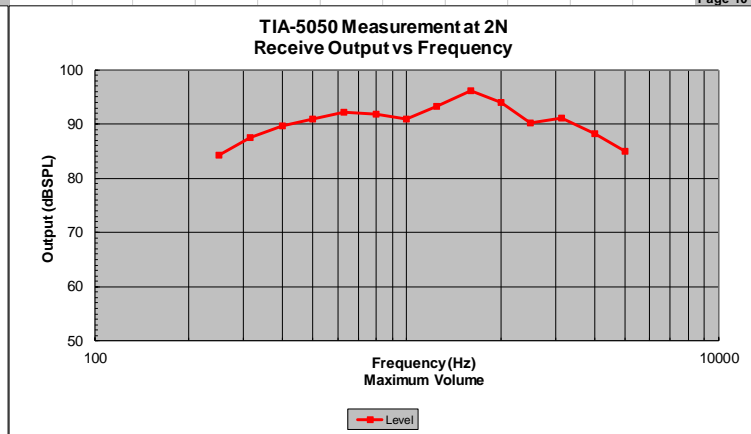
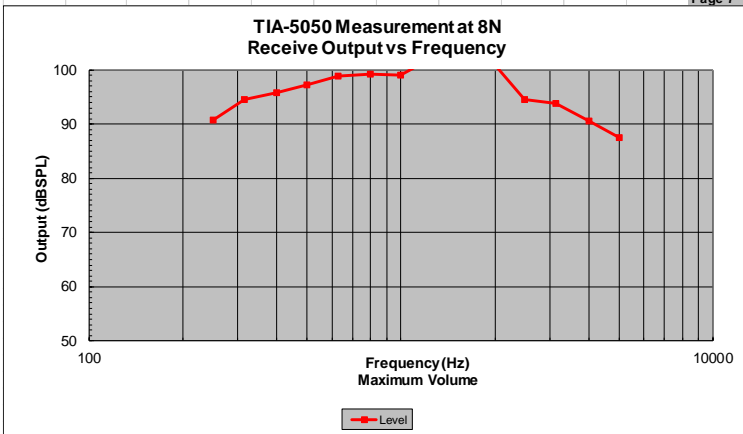
# Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS7 135 Mbps

## Distortion Report



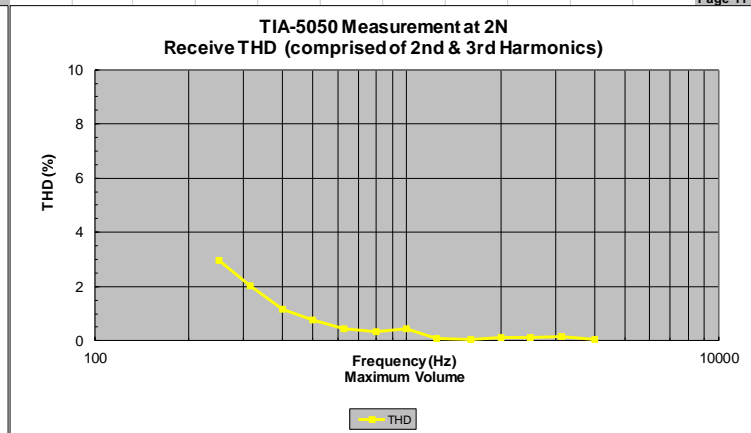
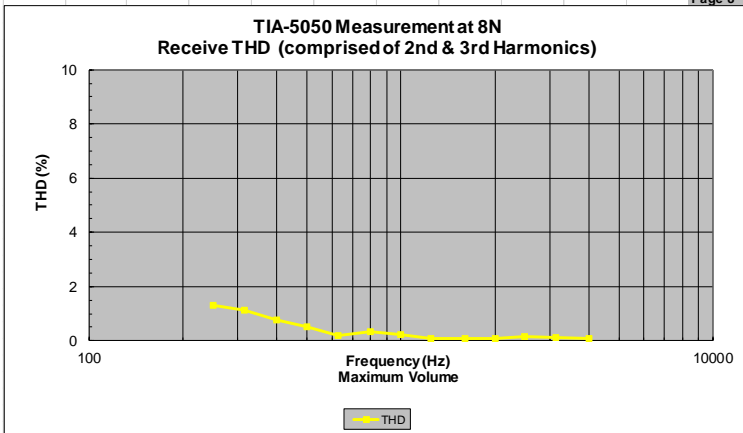
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	6/13/2024 21:10
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.58 dB	Absolute Limits	PASS	6/13/2024 21:10
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			



Test Date	
6/13/2024 21:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 21:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 21:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

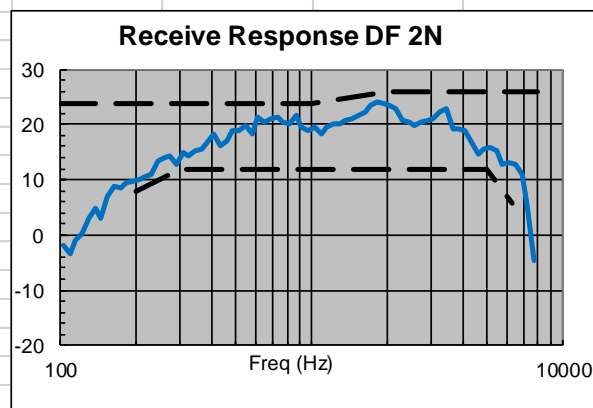
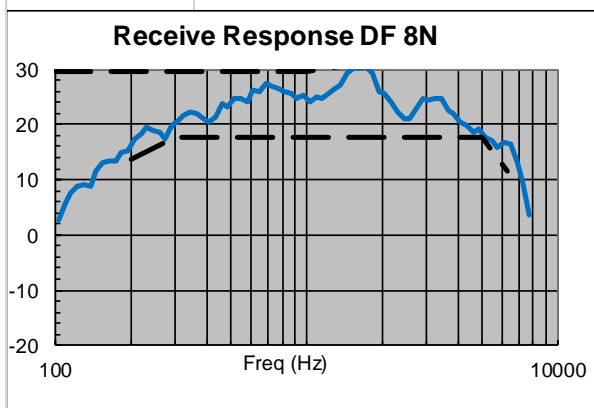
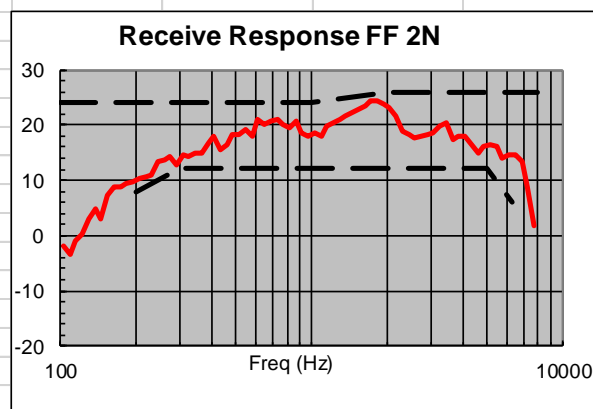
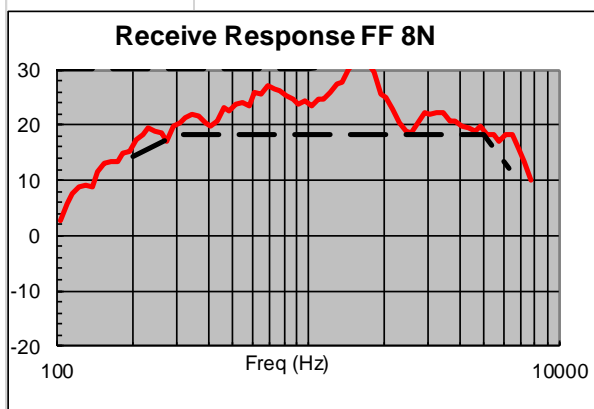
Test Date	
6/13/2024 21:10	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS9 180 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ac80 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/13/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.13 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.13 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.5 dB	Floating Limits	PASS	



**Output**

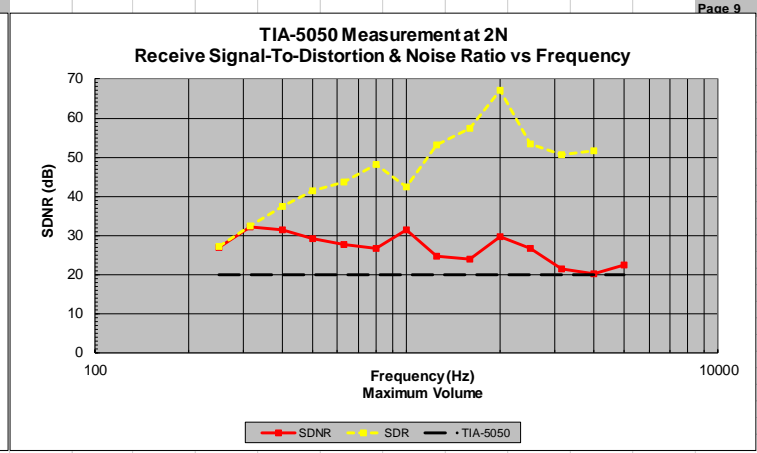
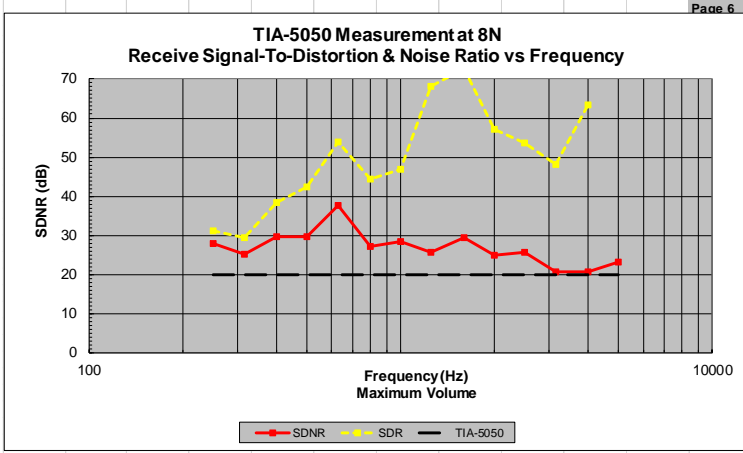
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.01 dB	info only		
	Recv conversational gain 8N	25.01 dB	18.00	PASS	
	Recv output level dBSPL 2N	89.34 dB	info only		
	Recv conversational gain 2N	19.34 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.27 dB	Absolute Limits	PASS	

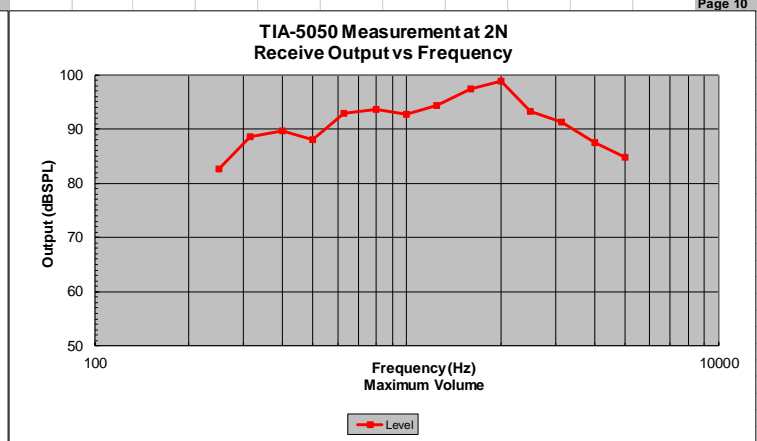
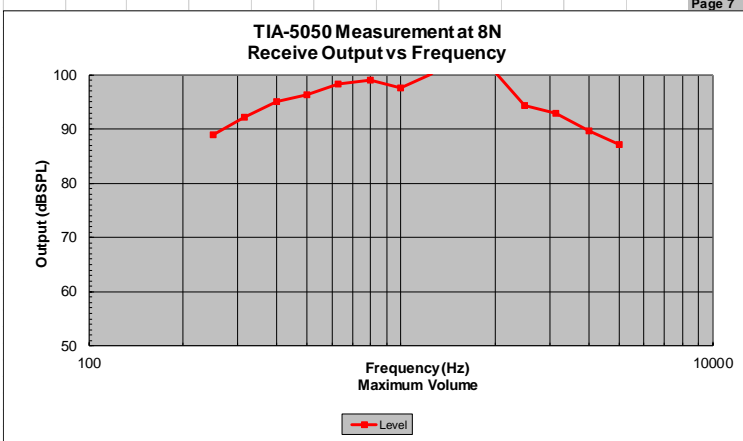
# Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS9 180 Mbps

## Distortion Report



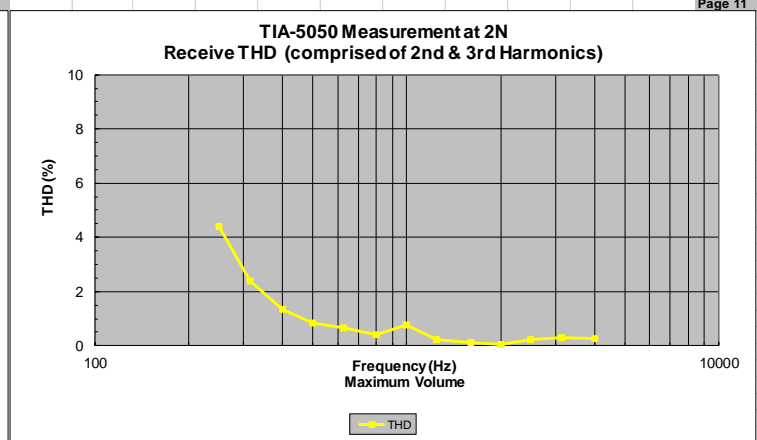
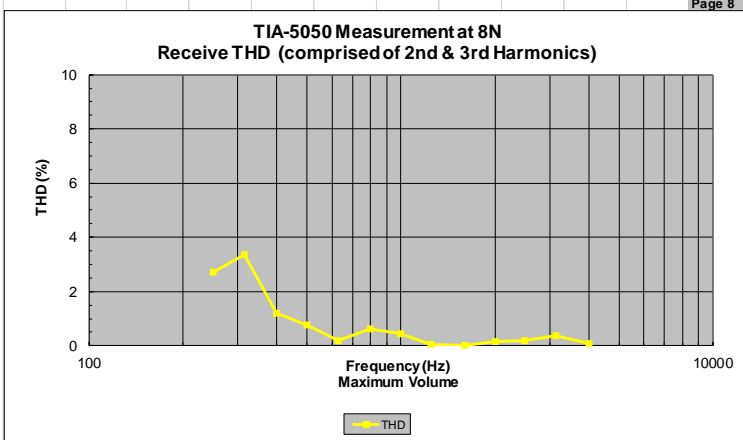
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	6/13/2024 21:50
Note: SDNR includes noise and distortion products.		Stimulus level		-20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.		Sentence conditioning		-20 dBPa
		Short conditioning		-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.27 dB	Absolute Limits	PASS	6/13/2024 21:50
Note: SDNR includes noise and distortion products.		Stimulus level		-20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.		Sentence conditioning		-20 dBPa
		Short conditioning		-99 dBPa
Comments:	24.4 kbps			



Test Date	
6/13/2024 21:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 21:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/13/2024 21:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/13/2024 21:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

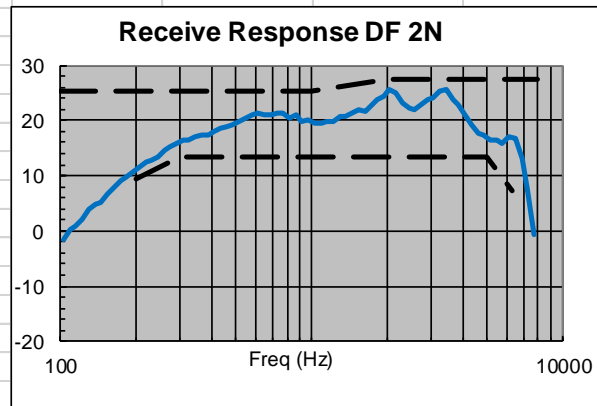
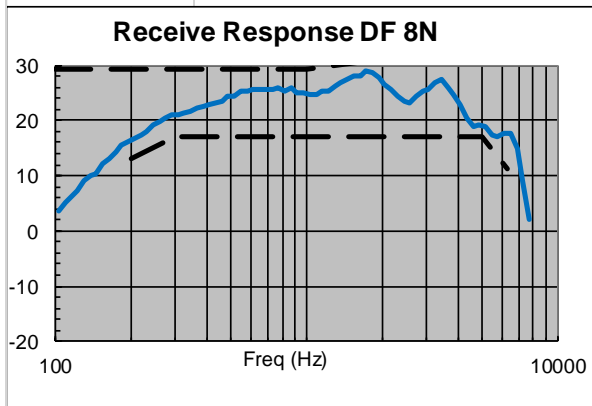
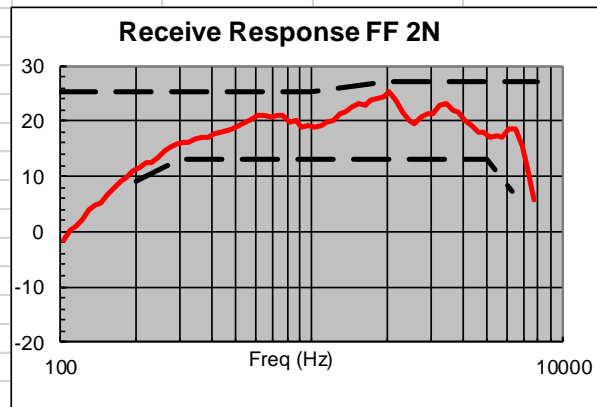
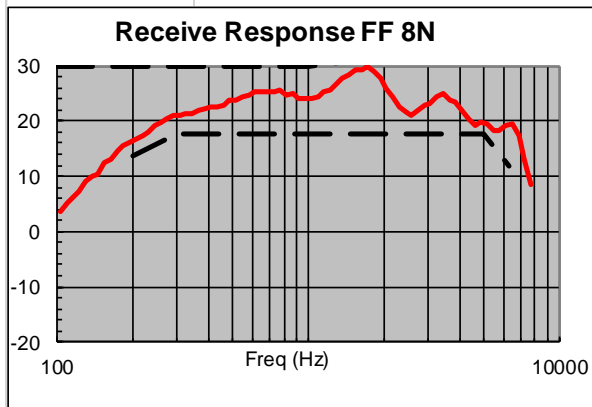


**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 600 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ax160 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.45 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.99 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.7 dB	Floating Limits	PASS	



**Output**

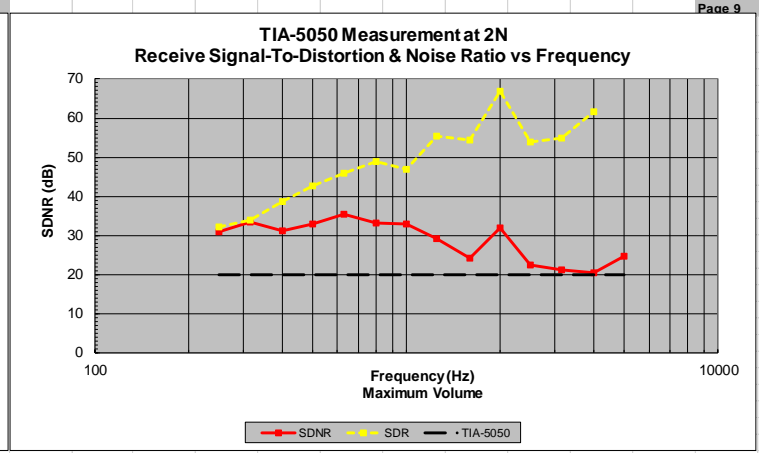
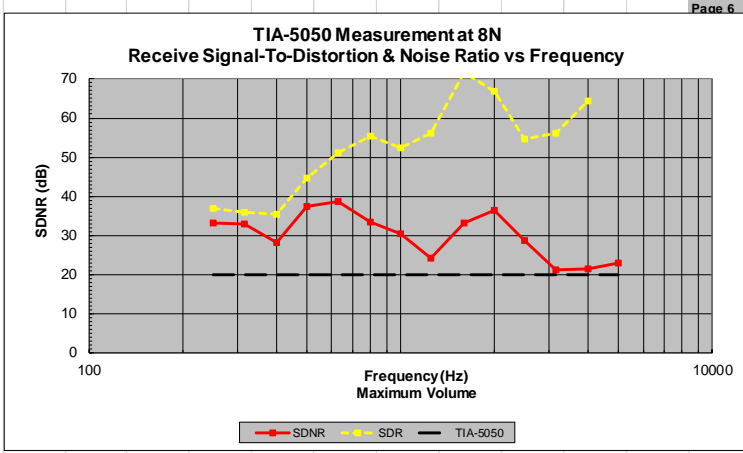
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	94.95 dB	info only		
	Recv conversational gain 8N	24.95 dB	18.00	PASS	
	Recv output level dBSPL 2N	90.24 dB	info only		
	Recv conversational gain 2N	20.24 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.47 dB	Absolute Limits	PASS	

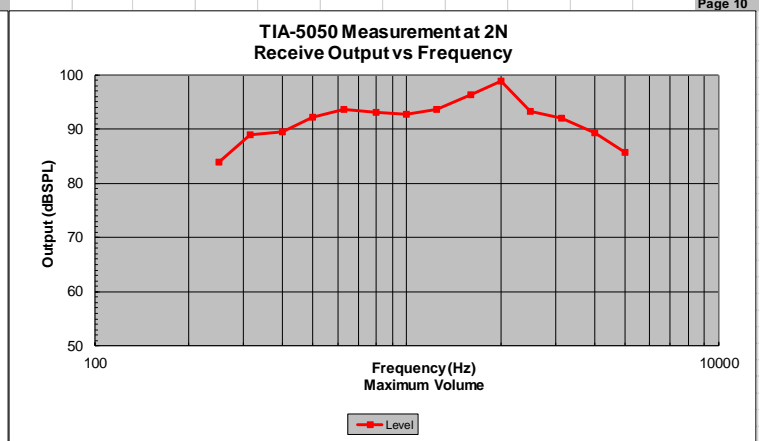
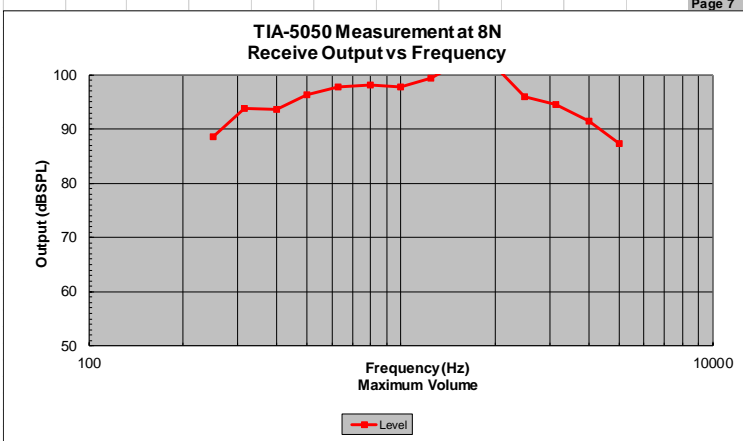
# Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 600 Mbps

## Distortion Report



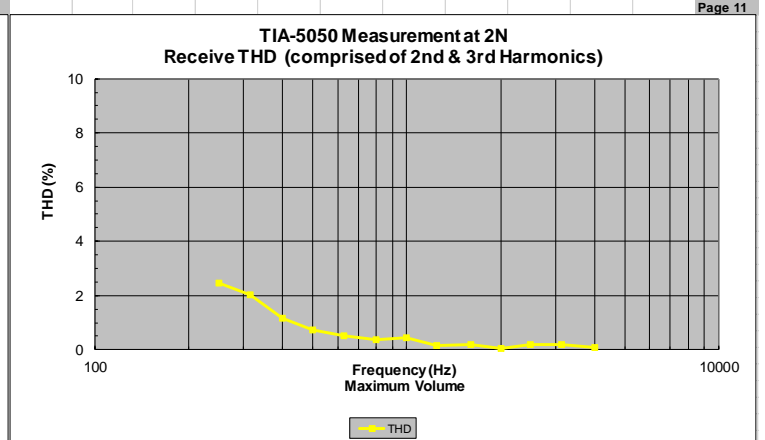
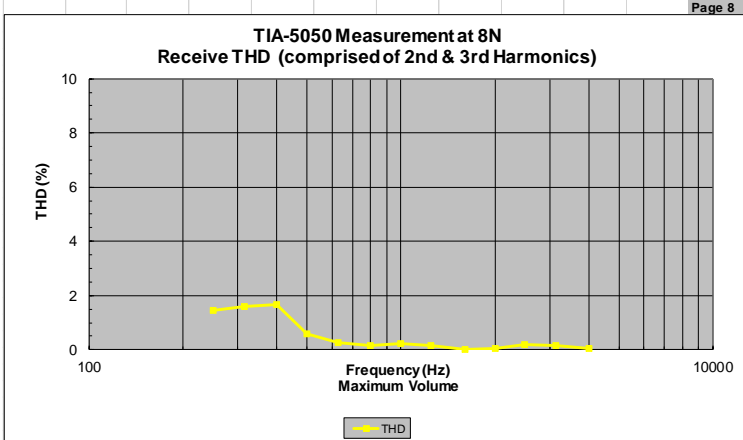
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.1 dB	Absolute Limits	PASS	6/14/2024 0:54
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.47 dB	Absolute Limits	PASS	6/14/2024 0:54
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			



Test Date
6/14/2024 0:54
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/14/2024 0:54
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/14/2024 0:54
Stimulus level
Sentence conditioning
Short conditioning
Comments:

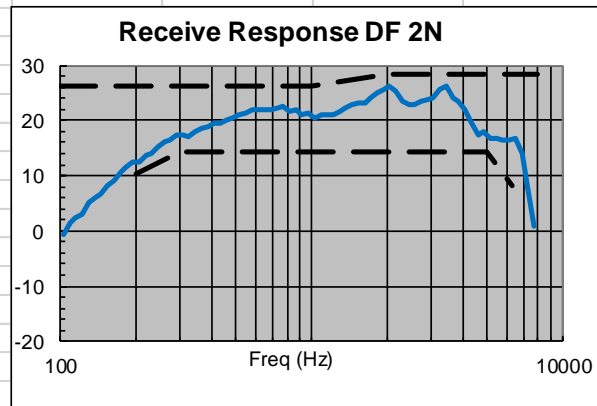
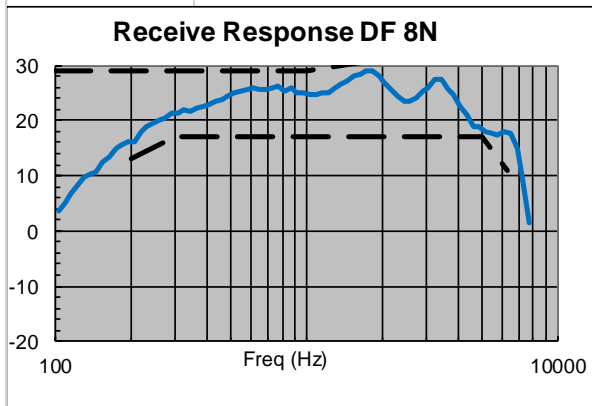
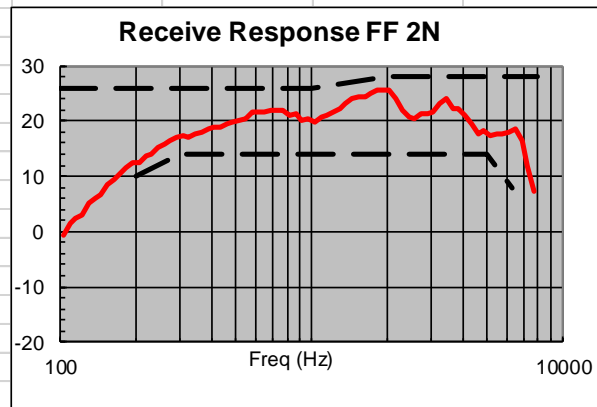
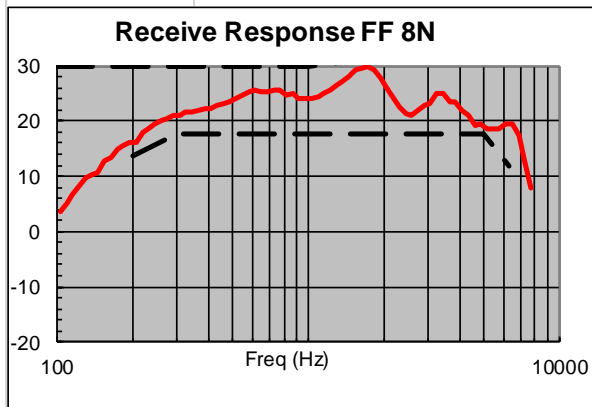
Test Date
6/14/2024 0:54
Stimulus level
Sentence conditioning
Short conditioning
Comments:

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 143 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ax UNII-5 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/14/2024

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.4 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.18 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.9 dB	Floating Limits	PASS	



**Output**

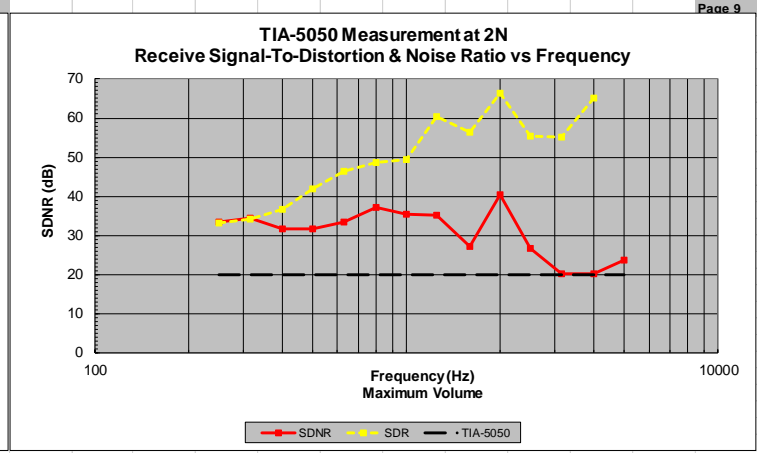
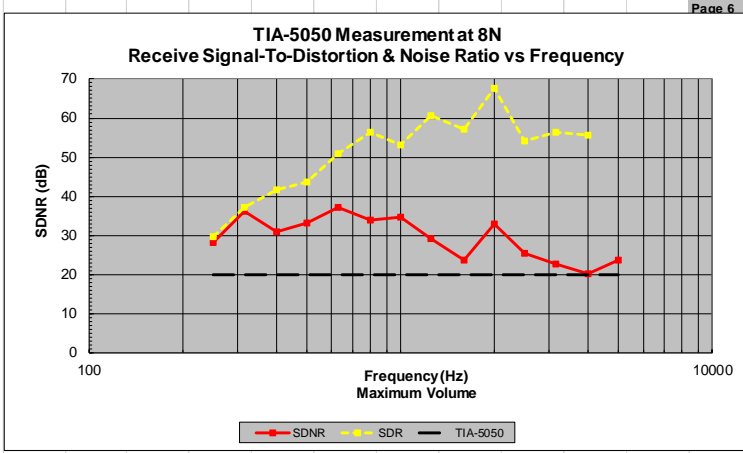
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.07 dB	info only		
	Recv conversational gain 8N	25.07 dB	18.00	PASS	
	Recv output level dBSPL 2N	91.29 dB	info only		
	Recv conversational gain 2N	21.29 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.19 dB	Absolute Limits	PASS	

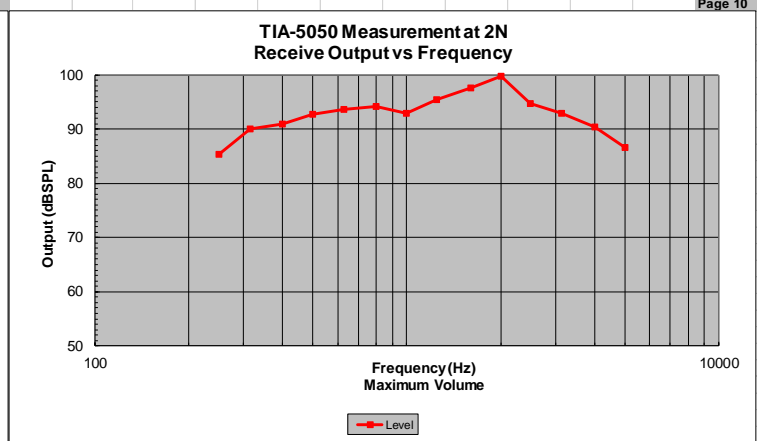
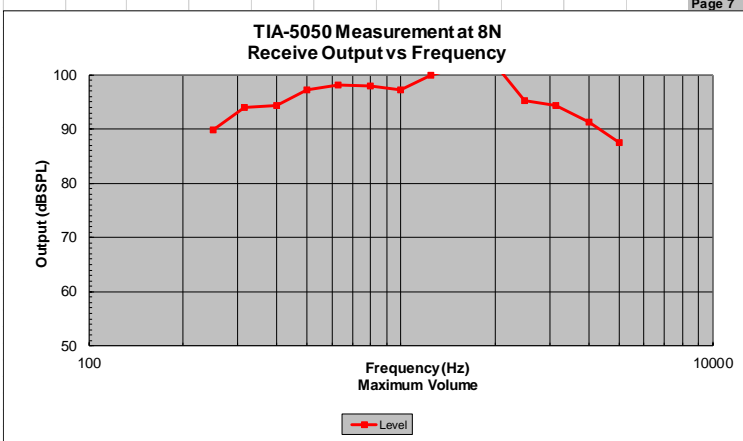
# Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 143 Mbps

## Distortion Report



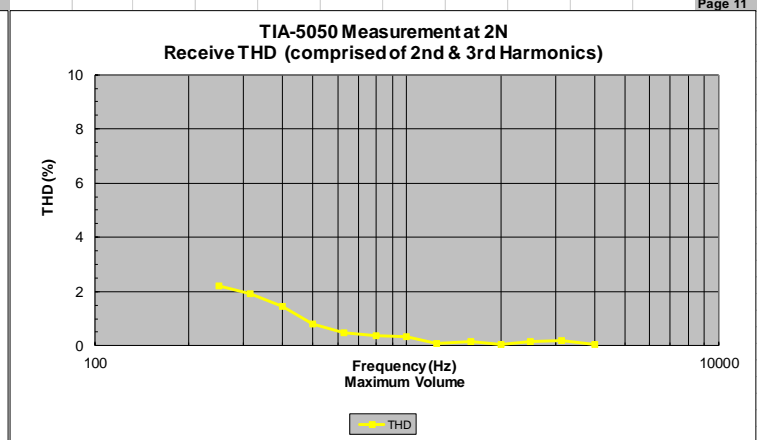
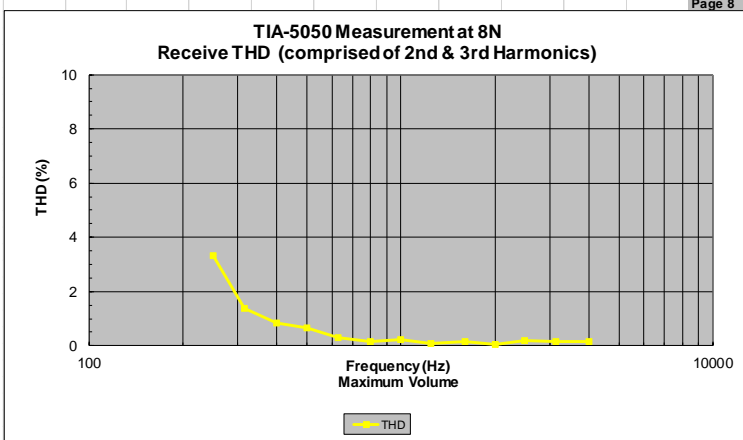
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/14/2024 1:06
Note: SDNR includes noise and distortion products.		Stimulus level		-20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.		Sentence conditioning		-20 dBPa
		Short conditioning		-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.19 dB	Absolute Limits	PASS	6/14/2024 1:06
Note: SDNR includes noise and distortion products.		Stimulus level		-20 dBPa
SDR includes only 2nd and 3rd harmonic distortion.		Sentence conditioning		-20 dBPa
		Short conditioning		-99 dBPa
Comments:	24.4 kbps			



Test Date	
6/14/2024 1:06	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

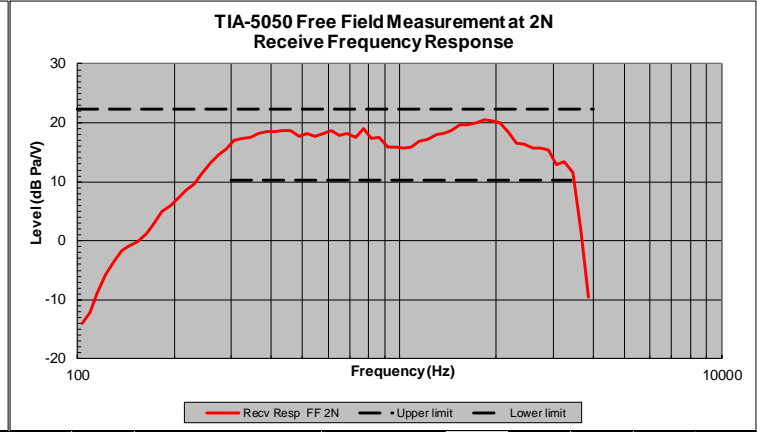
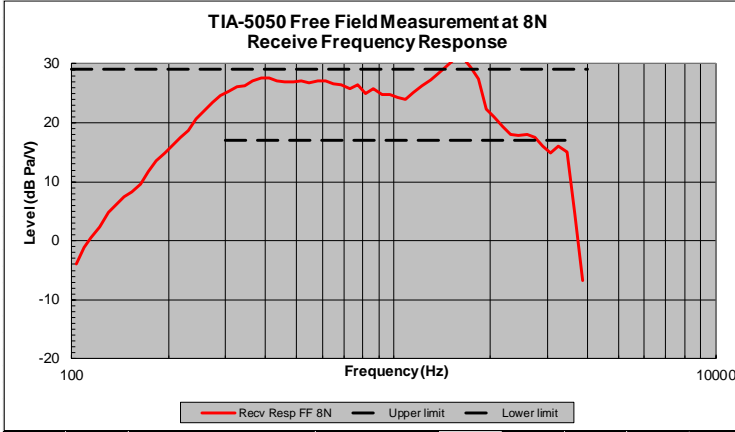
Test Date	
6/14/2024 1:06	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/14/2024 1:06	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/14/2024 1:06	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

# Wi-Fi 2.4 GHz AMR-NB: 4.75 kbps DSSS 1 Mbps Conversational Gain & Frequency Response Report

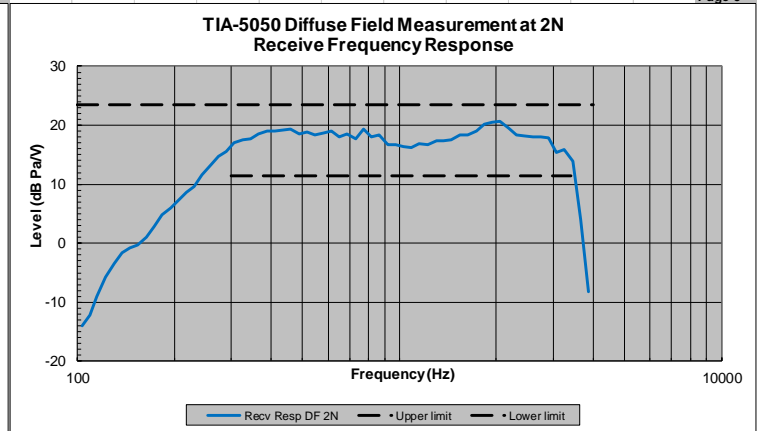
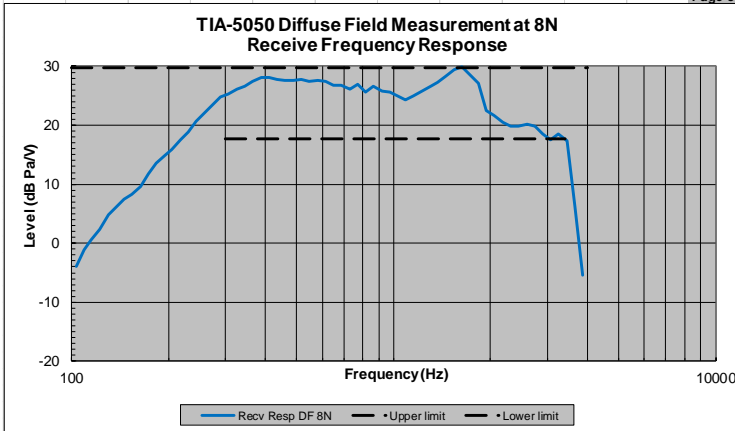


Test	Measured	Limits	Result	Stimulus Level
Recv output level dBSPL 8N	97.22 dB	info only		-20.0 dBm0
Recv conversational gain 8N	27.22 dB	18.00	PASS	
Test	Margin	Limits	Result	Test Date
Recv resp FF 8N	-2.11 dB	Floating Limits	FAIL	6/13/2024 13:57

Test	Measured	Limits	Result	Stimulus Level
Recv output level dBSPL 2N	88.46 dB	info only		-20.0 dBm0
Recv conversational gain 2N	18.46 dB	6.00	PASS	
Test	Margin	Limits	Result	Test Date
Recv resp FF 2N	1.73 dB	Floating Limits	PASS	6/13/2024 13:57

Comments: 4.75 kbps

Comments: 4.75 kbps



Test	Measured	Limits	Result	Stimulus Level
Recv output level dBSPL 8N	97.22 dB	info only		-20.0 dBm0
Recv conversational gain 8N	27.22 dB	18.00	PASS	
Test	Margin	Limits	Result	Test Date
Recv resp DF 8N	-0.19 dB	Floating Limits	FAIL	6/13/2024 13:57

Test	Measured	Limits	Result	Stimulus Level
Recv output level dBSPL 2N	88.46 dB	info only		-20.0 dBm0
Recv conversational gain 2N	18.46 dB	6.00	PASS	
Test	Margin	Limits	Result	Test Date
Recv resp DF 2N	2.9 dB	Floating Limits	PASS	6/13/2024 13:57

Comments: 4.75 kbps

Comments: 4.75 kbps