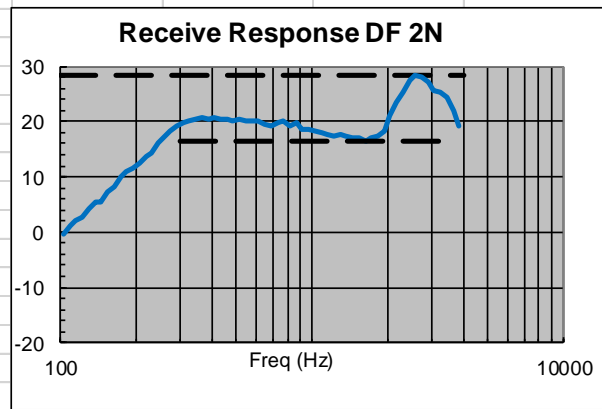
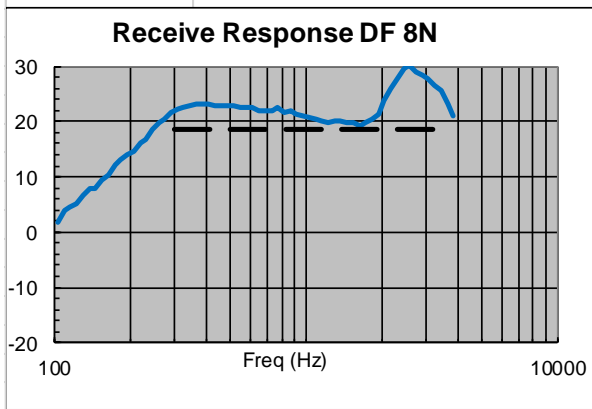
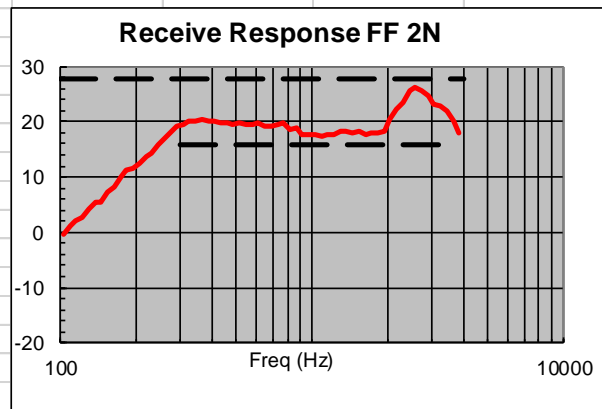
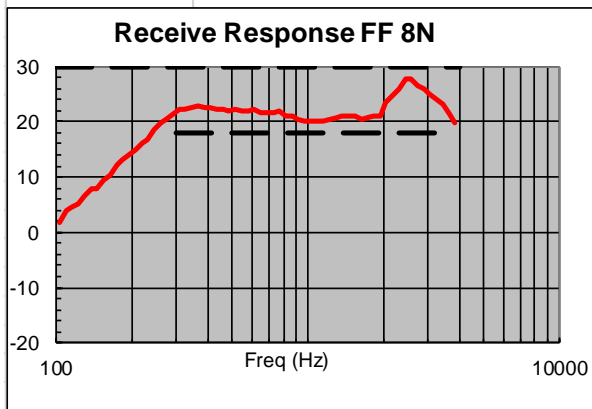


LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK
Conversational Gain & Frequency Response Report
TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B25 EVS-NB
Bandwidth	Narrowband
Test Date:	6/2/2024

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	0.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.64 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.01 dB	Floating Limits	PASS	



Output

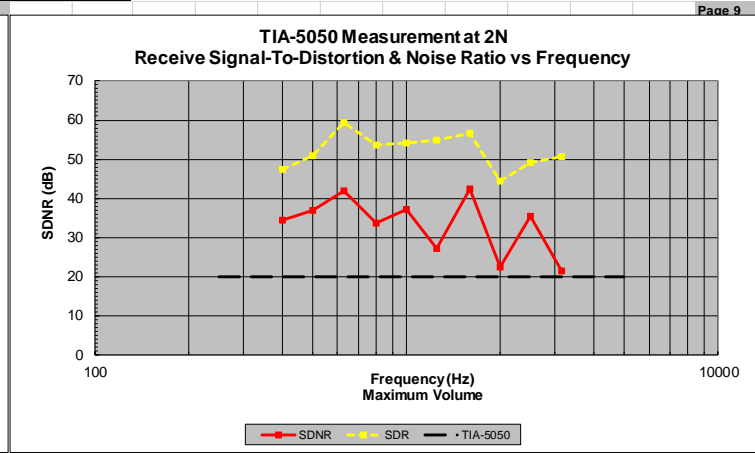
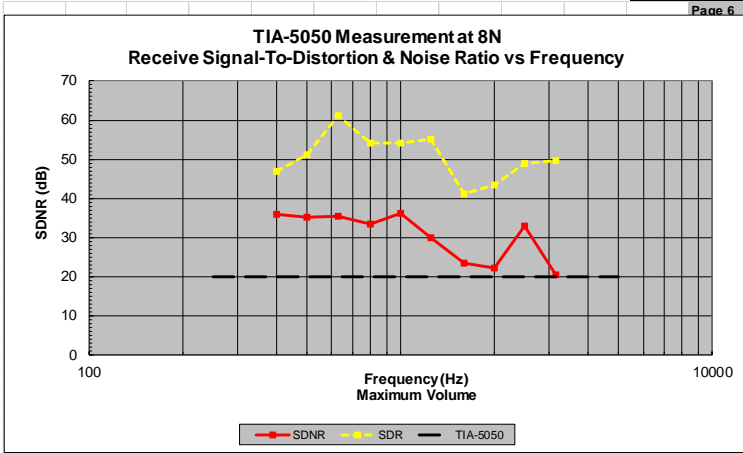
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	92.69 dB	info only		
	Recv conversational gain 8N	22.69 dB	18.00	PASS	
	Recv output level dBSPL 2N	90.27 dB	info only		
	Recv conversational gain 2N	20.27 dB	6.00	PASS	

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	1.59 dB	Absolute Limits	PASS	

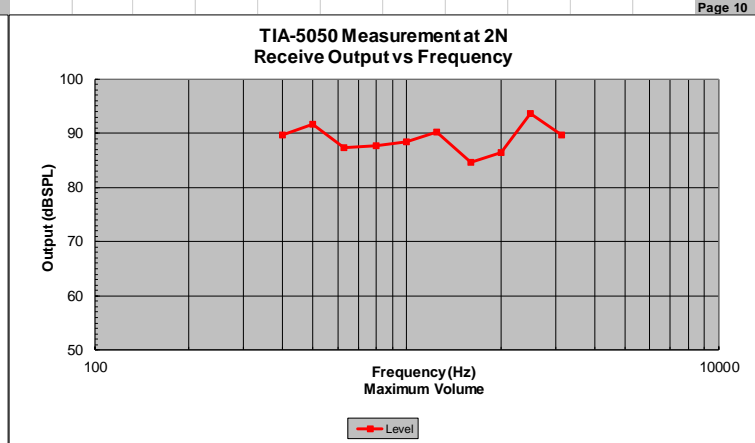
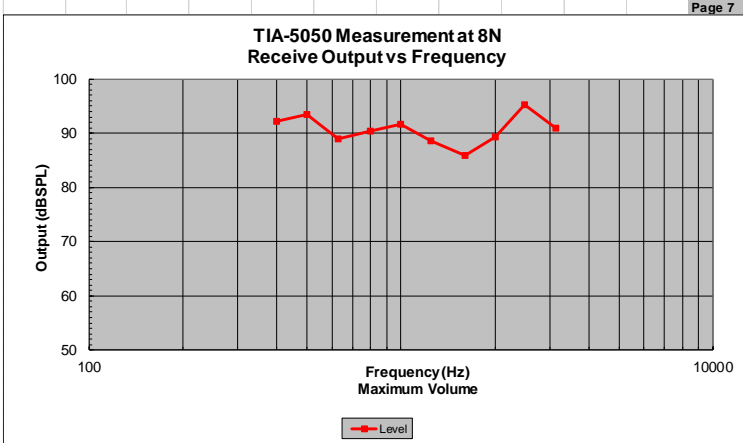
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK

Distortion Report



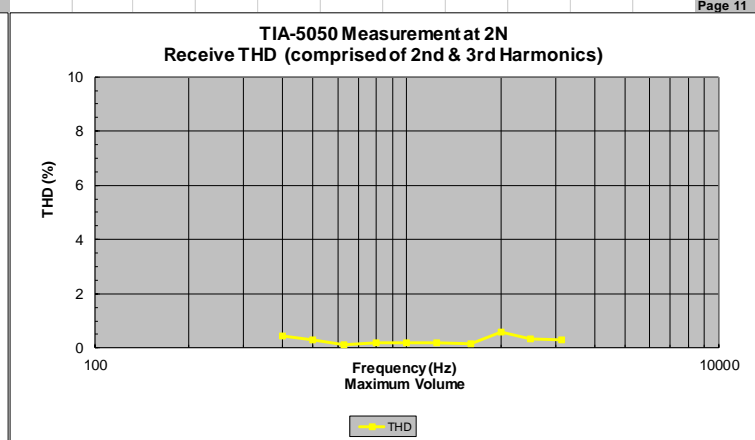
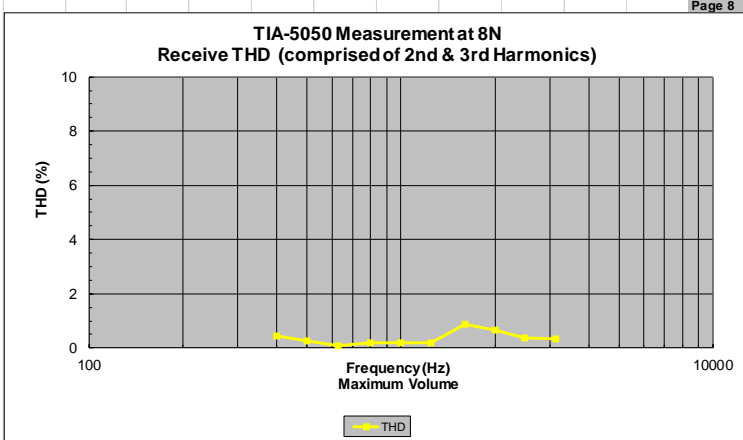
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	6/2/2024 6:24
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.59 dB	Absolute Limits	PASS	6/2/2024 6:24
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
				-20 dBPa
Comments:	9.6 kbps			



Test Date
6/2/2024 6:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
9.6 kbps

Test Date
6/2/2024 6:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
9.6 kbps



Test Date
6/2/2024 6:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
9.6 kbps

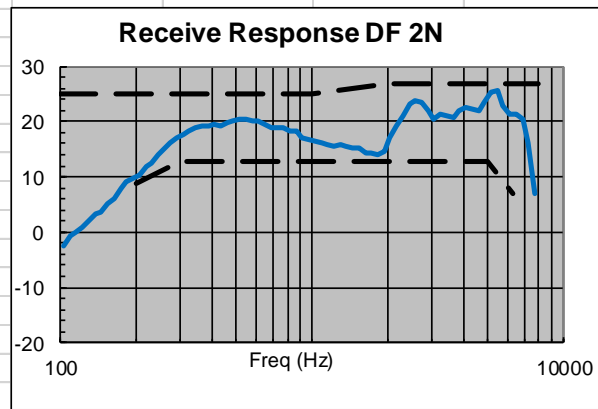
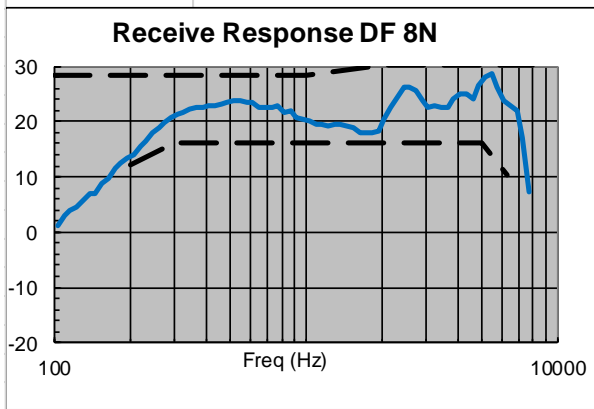
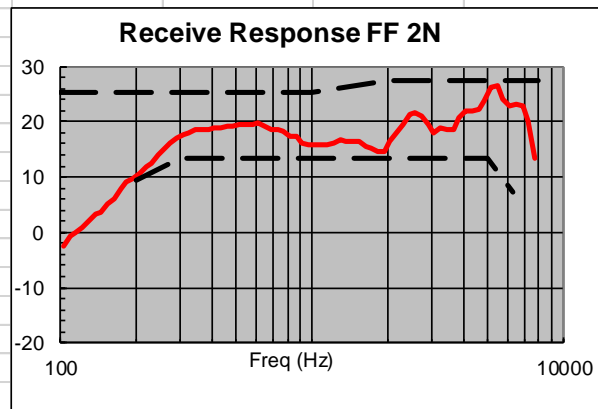
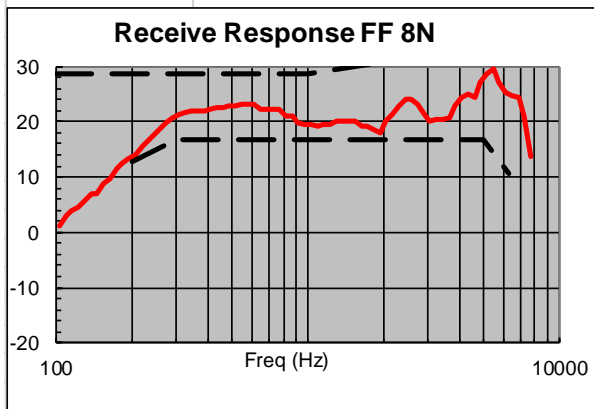
Test Date
6/2/2024 6:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
9.6 kbps

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

Device Under Test:	LTE B25 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.11 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.79 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



Output

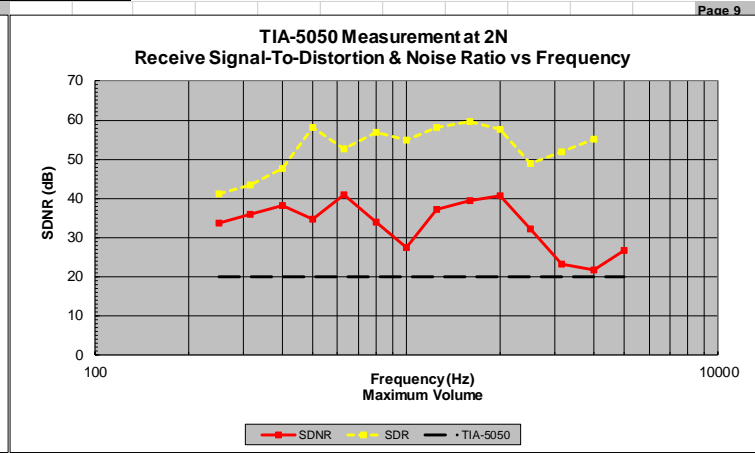
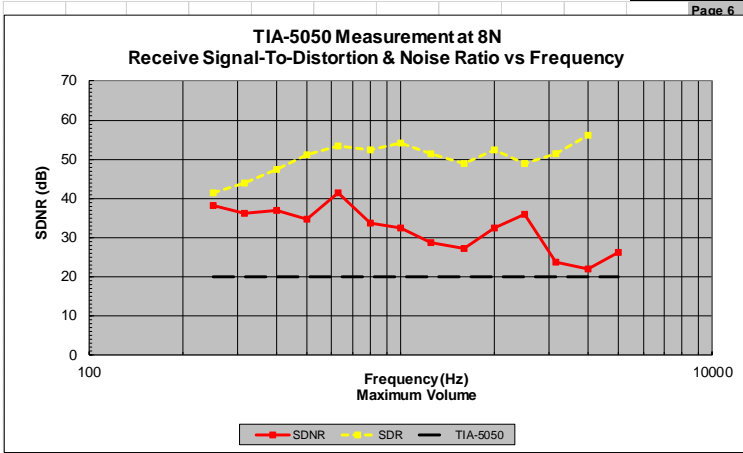
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	92.78 dB	info only		
	Recv conversational gain 8N	22.78 dB	18.00	PASS	
	Recv output level dBSPL 2N	89.33 dB	info only		
	Recv conversational gain 2N	19.33 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.73 dB	Absolute Limits	PASS	

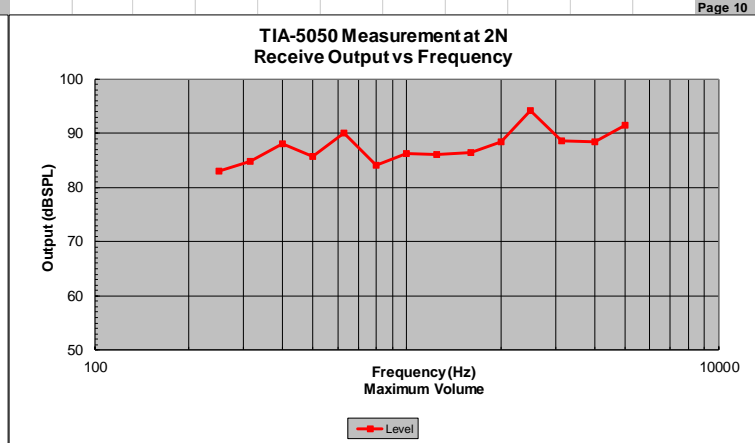
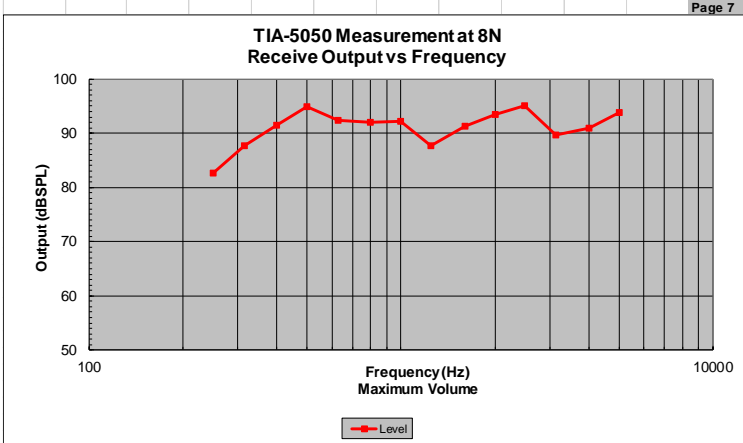
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK

Distortion Report



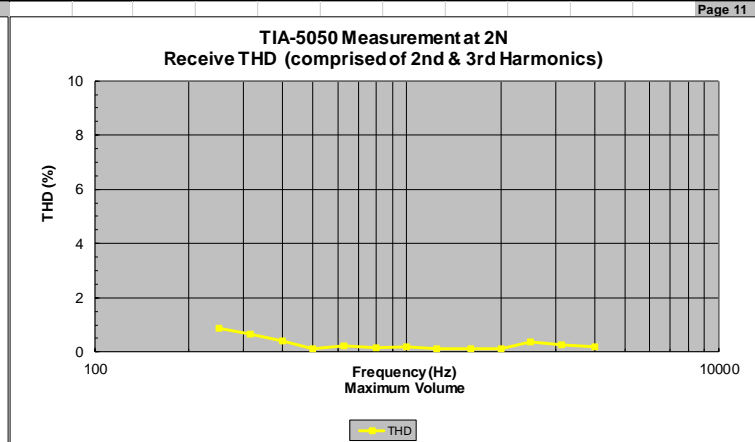
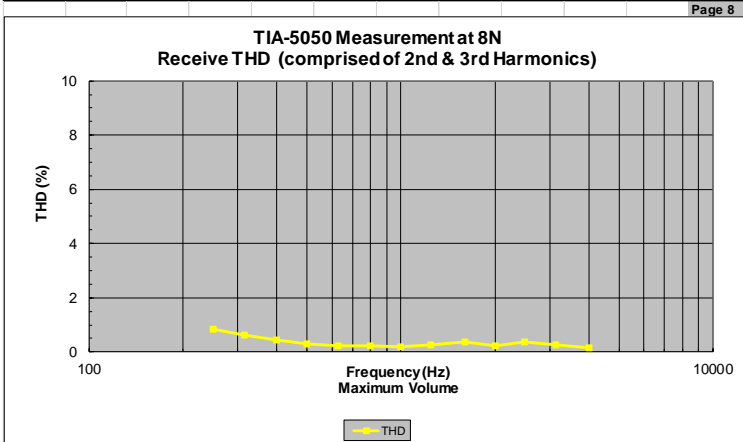
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	6/2/2024 6:04
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.73 dB	Absolute Limits	PASS	6/2/2024 6:04
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				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 6:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/2/2024 6:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps



Test Date	
6/2/2024 6:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

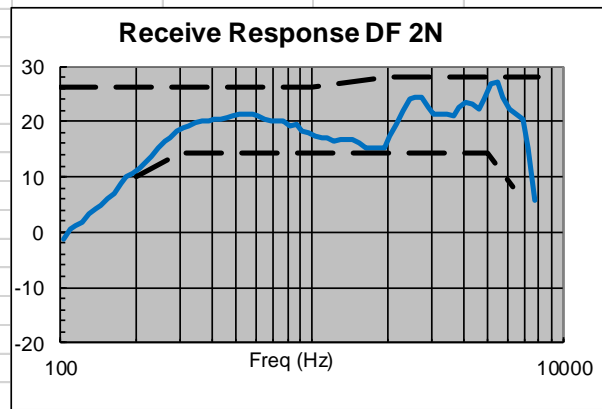
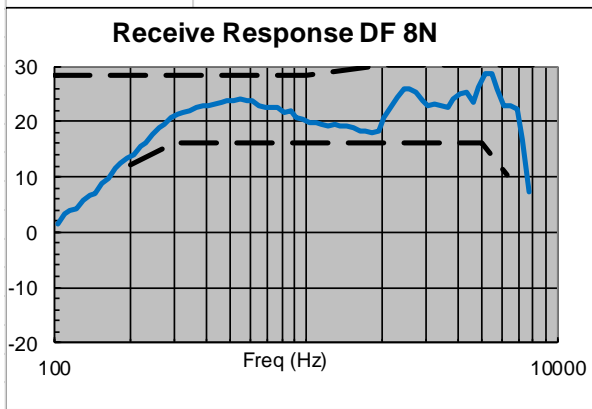
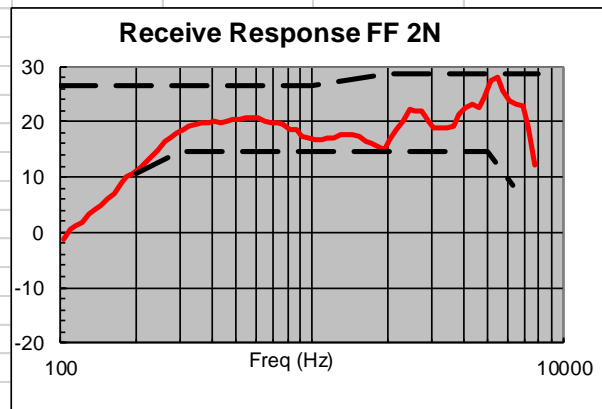
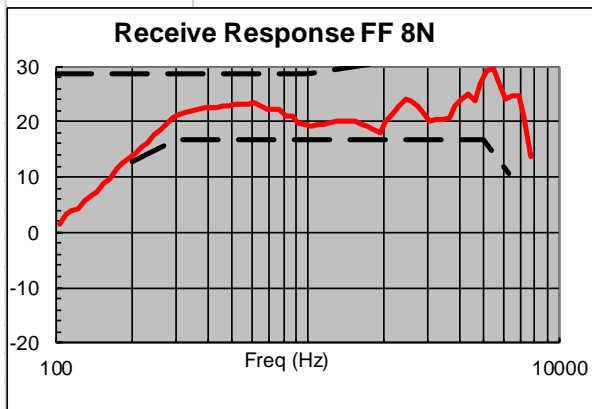
Test Date	
6/2/2024 6:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

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

Device Under Test:	LTE B25 EVS-WB 100
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.11 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.38 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.9 dB	Floating Limits	PASS	



Output

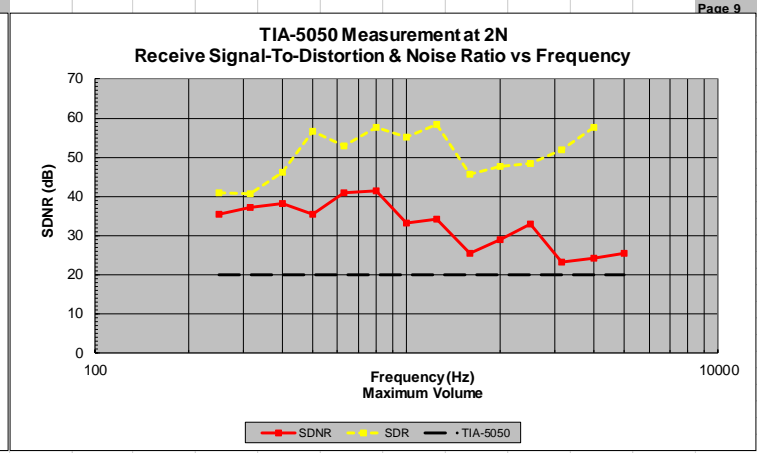
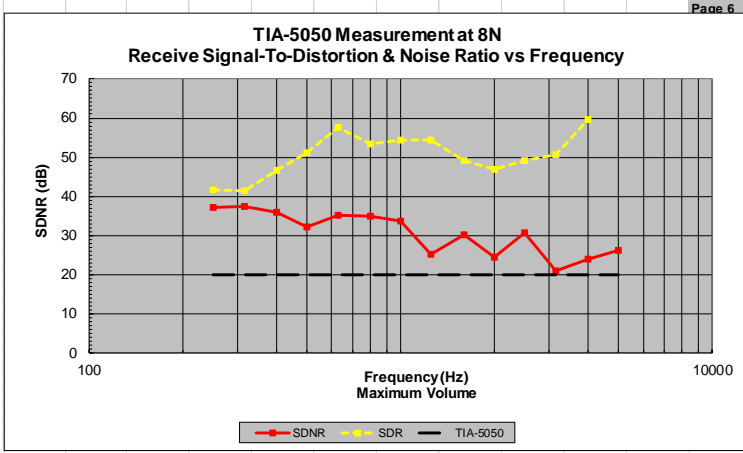
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.89 dB	info only		
	Recv conversational gain 8N	22.89 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.37 dB	info only		
	Recv conversational gain 2N	20.37 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.18 dB	Absolute Limits	PASS	

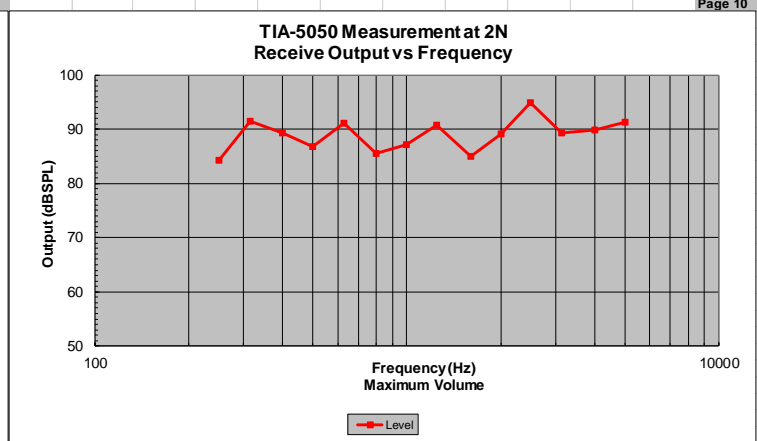
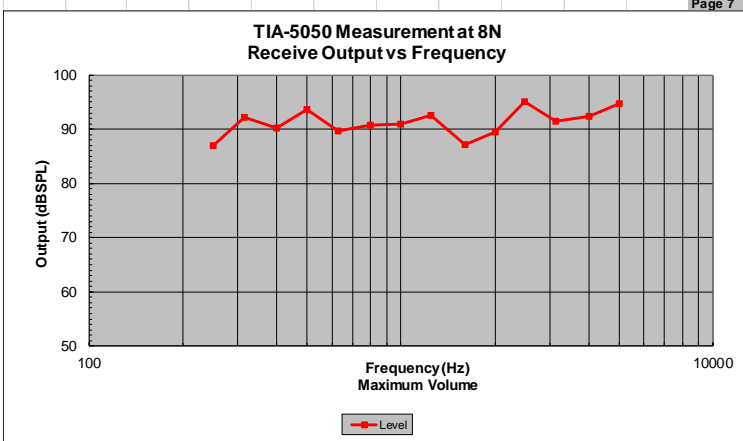
LTE Band 25 EVS-WB: 24.4 kbps 100,0 RB QPSK

Distortion Report



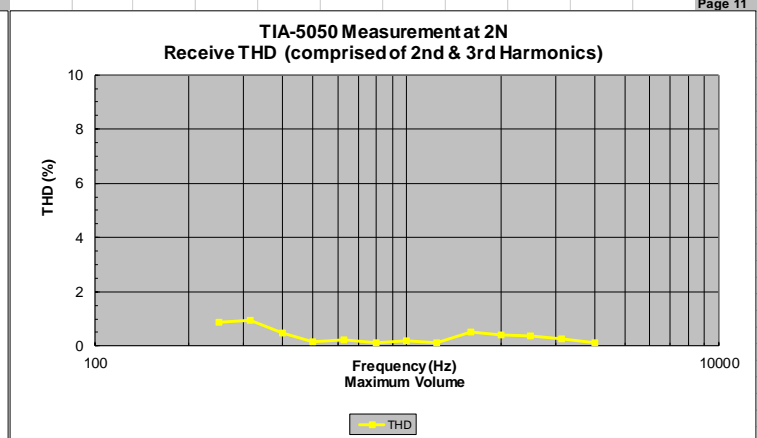
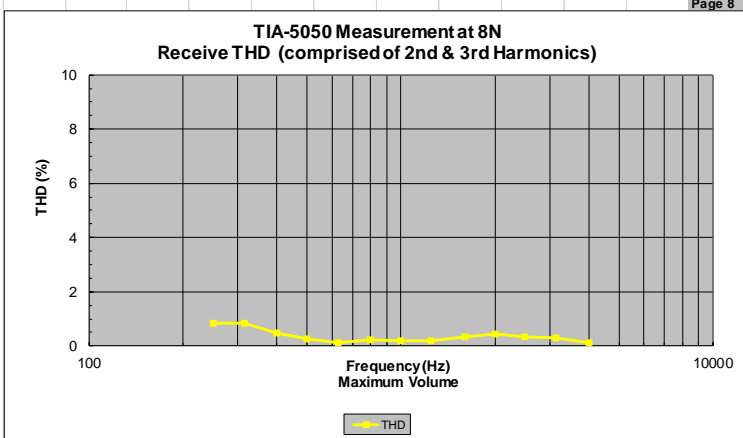
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	6/2/2024 6:33
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.18 dB	Absolute Limits	PASS	6/2/2024 6:33
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 6:33	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 6:33	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 6:33	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

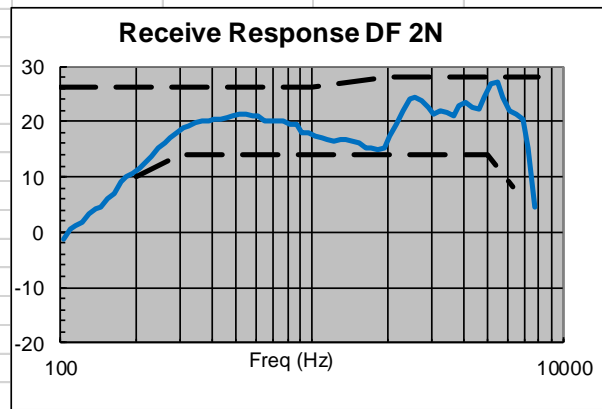
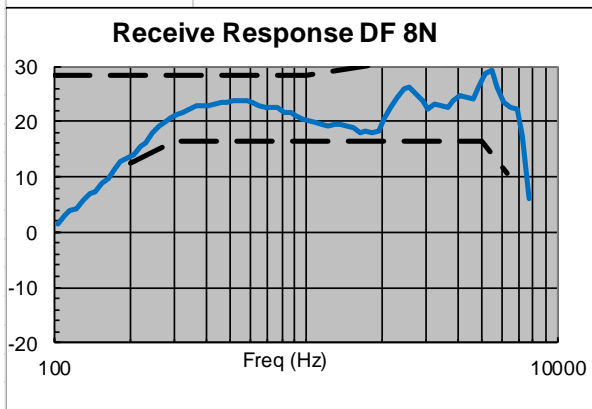
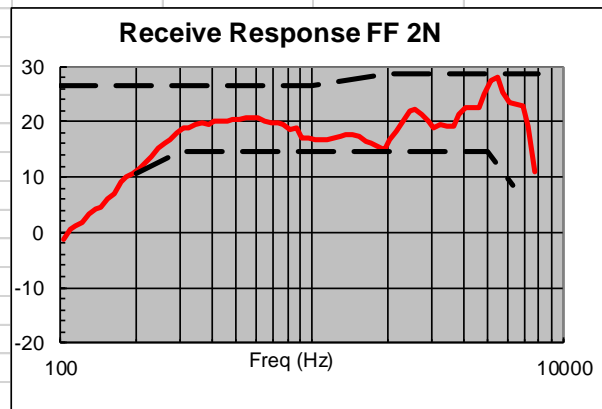
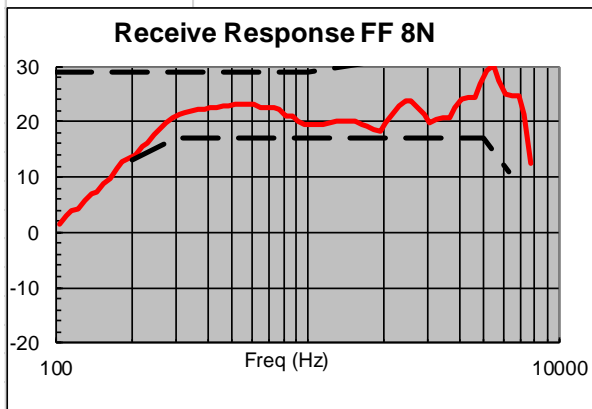
Test Date	
6/2/2024 6:33	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

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

Device Under Test:	LTE B25 EVS-WB 16QAM
Bandwidth:	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.79 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.42 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.9 dB	Floating Limits	PASS	



Output

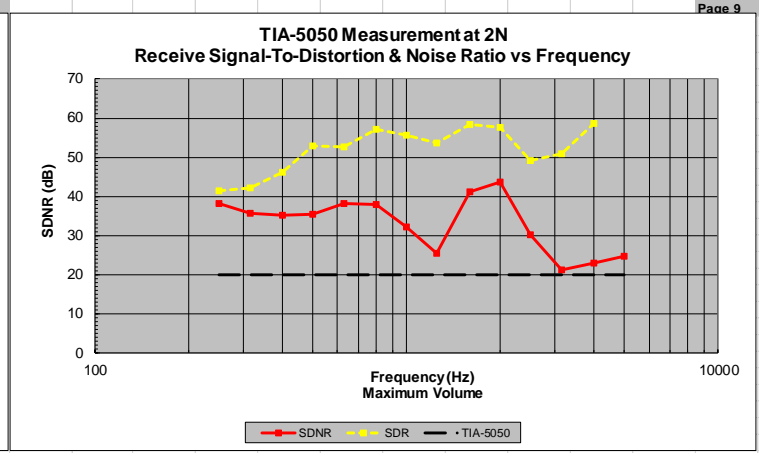
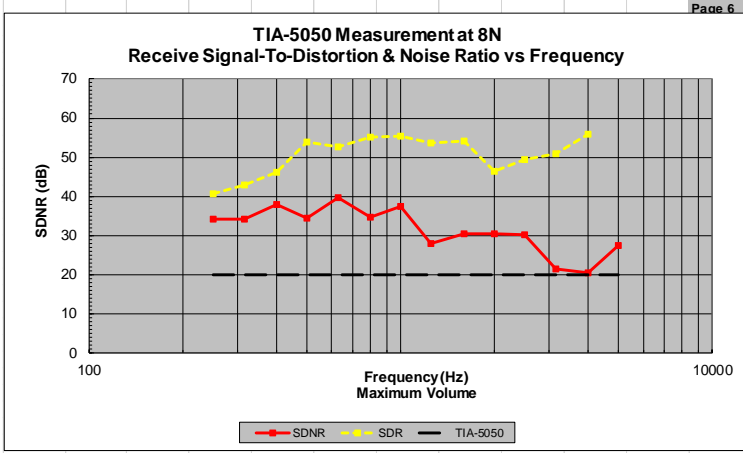
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.87 dB	info only		
	Recv conversational gain 8N	22.87 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.35 dB	info only		
	Recv conversational gain 2N	20.35 dB	6.00	PASS	

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	1.19 dB	Absolute Limits	PASS	

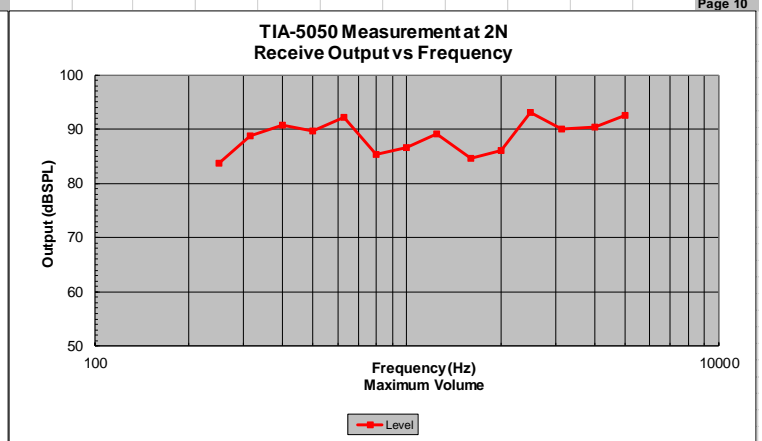
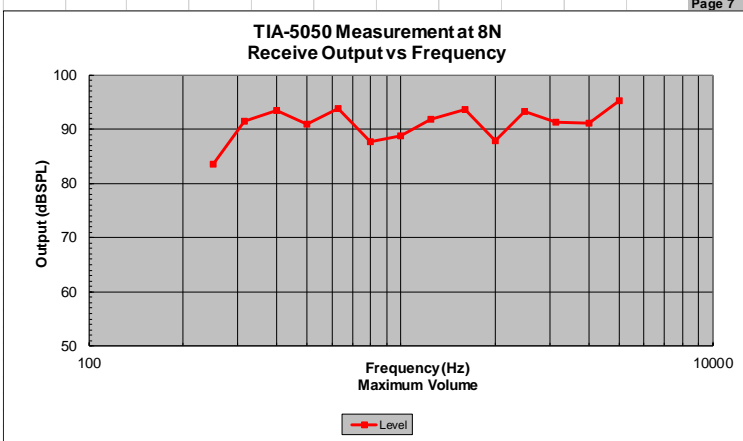
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 16QAM

Distortion Report



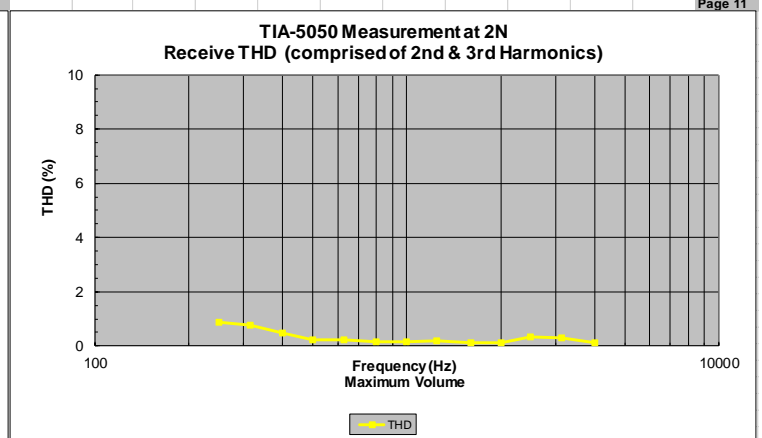
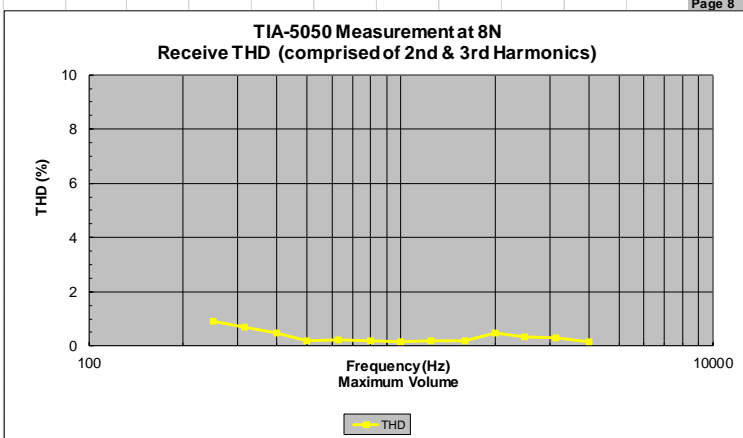
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	6/2/2024 6:45
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.19 dB	Absolute Limits	PASS	6/2/2024 6:45
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 6:45	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 6:45	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 6:45	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

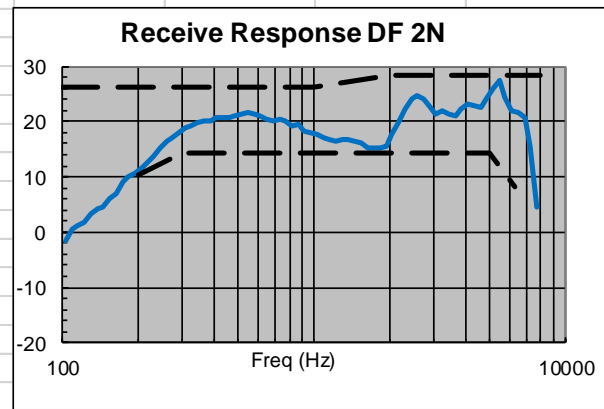
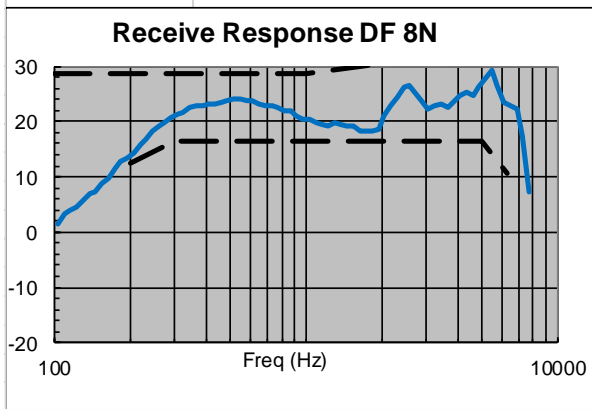
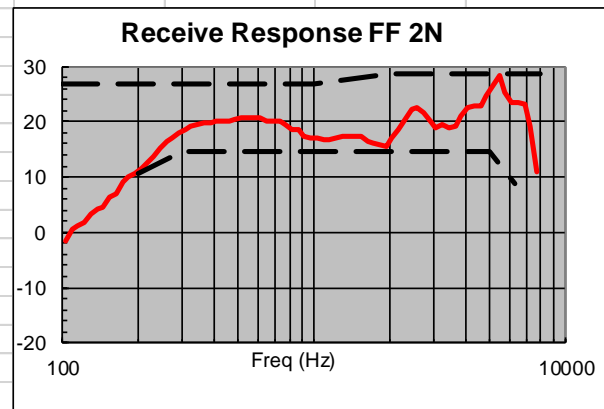
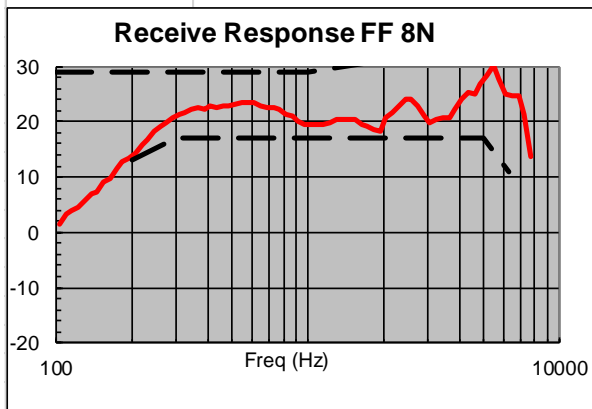
Test Date	
6/2/2024 6:45	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

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

Device Under Test:	LTE B25 EVS-WB 64QAM
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.92 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.51 dB	Floating Limits	PASS	
	Recv resp DF 2N	1 dB	Floating Limits	PASS	



Output

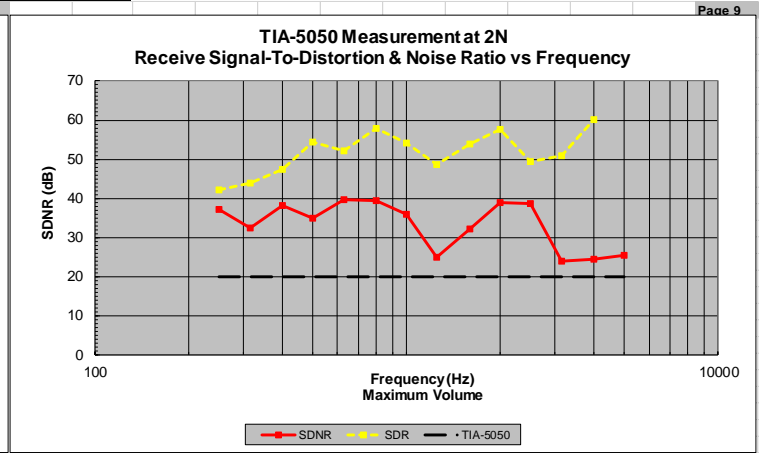
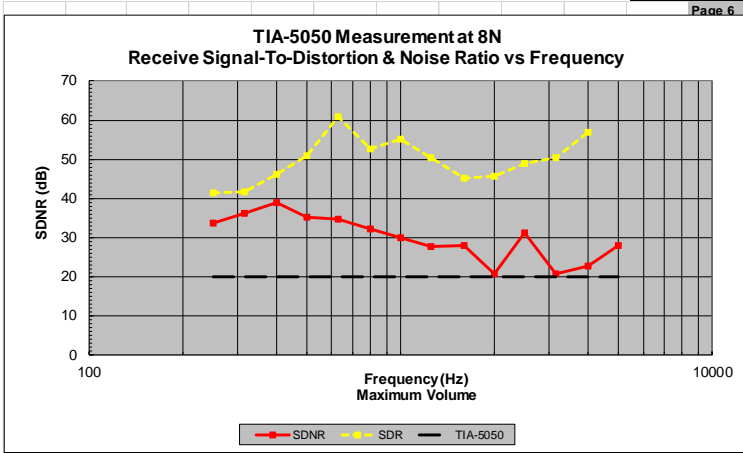
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.01 dB	info only		
	Recv conversational gain 8N	23.01 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.42 dB	info only		
	Recv conversational gain 2N	20.42 dB	6.00	PASS	

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	3.93 dB	Absolute Limits	PASS	

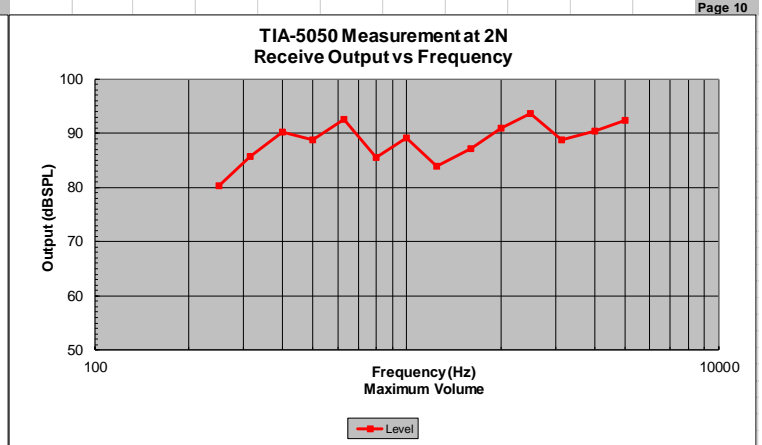
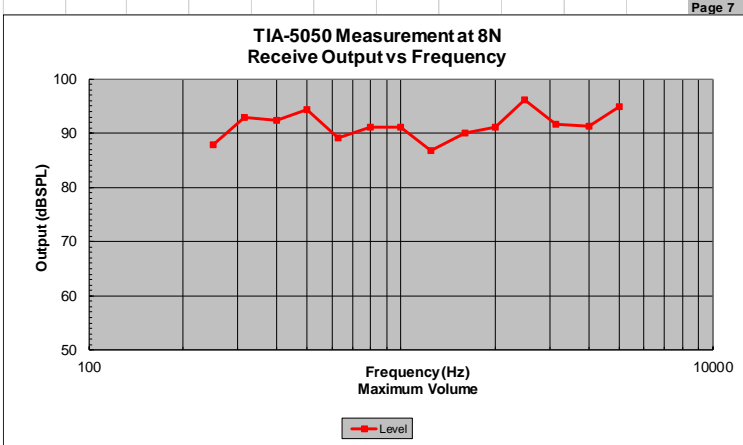
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 64QAM

Distortion Report



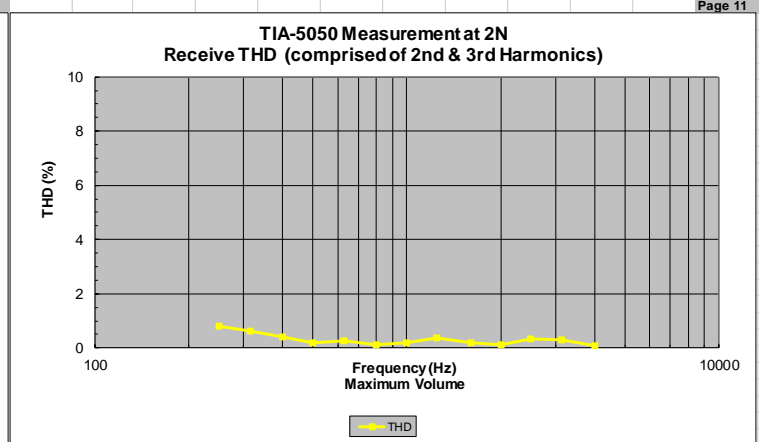
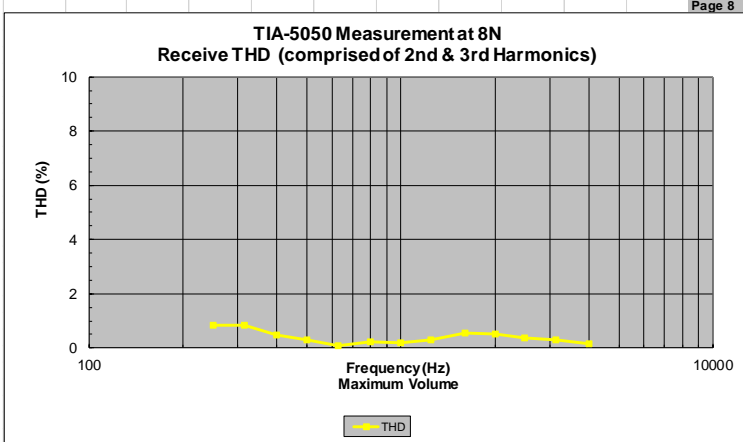
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	6/2/2024 7:22
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.93 dB	Absolute Limits	PASS	6/2/2024 7:22
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 -20 dBPa
Comments:	24.4 kbps			



Test Date
6/2/2024 7:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -20 dBPa
Comments: 24.4 kbps

Test Date
6/2/2024 7:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -20 dBPa
Comments: 24.4 kbps



Test Date
6/2/2024 7:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -20 dBPa
Comments: 24.4 kbps

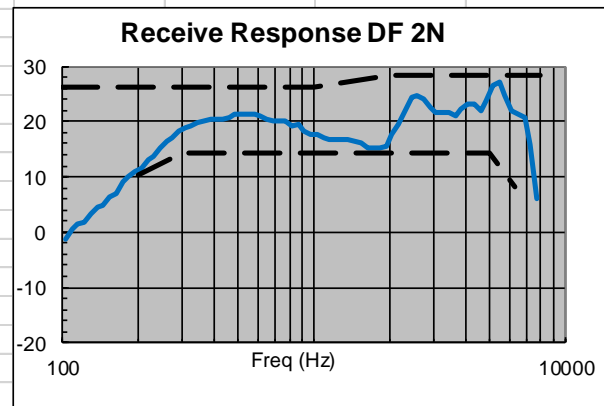
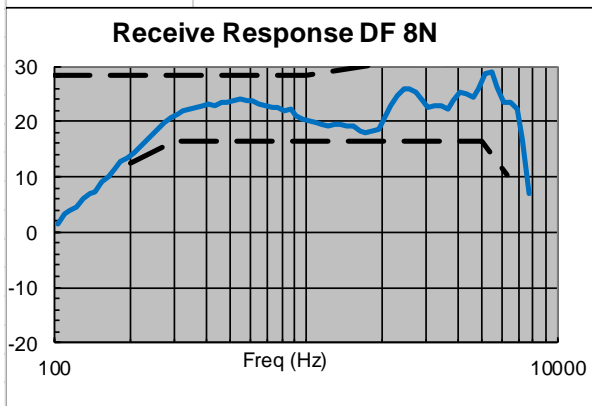
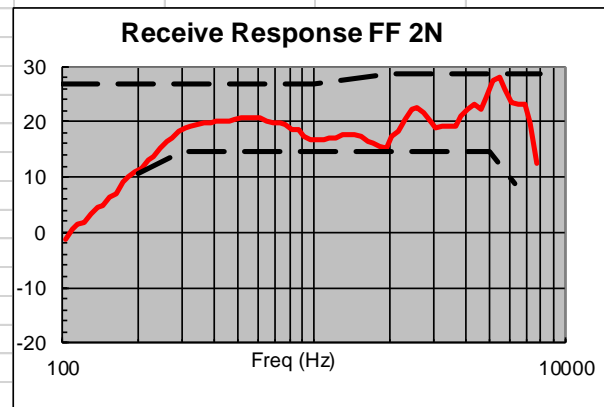
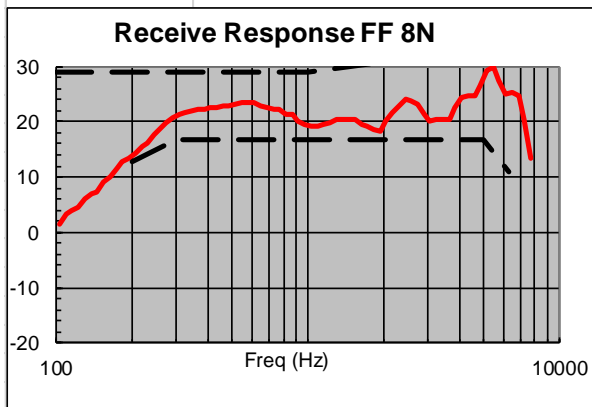
Test Date
6/2/2024 7:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -20 dBPa
Comments: 24.4 kbps

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

Device Under Test:	LTE B25 EVS-WB 256QAM
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.06 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.57 dB	Floating Limits	PASS	
	Recv resp DF 2N	1 dB	Floating Limits	PASS	



Output

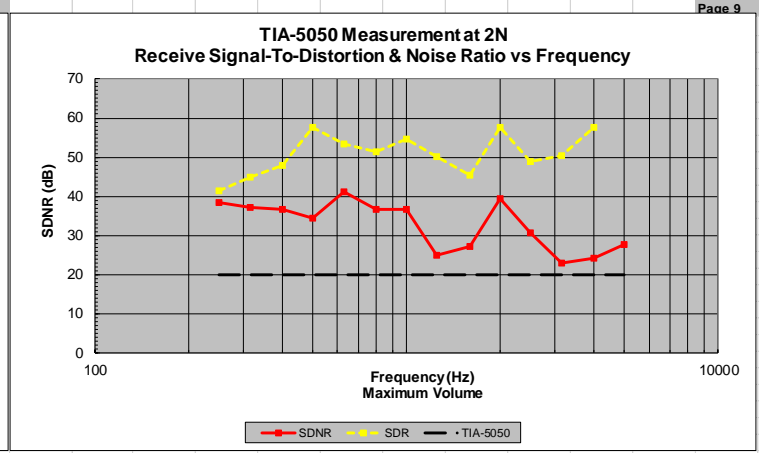
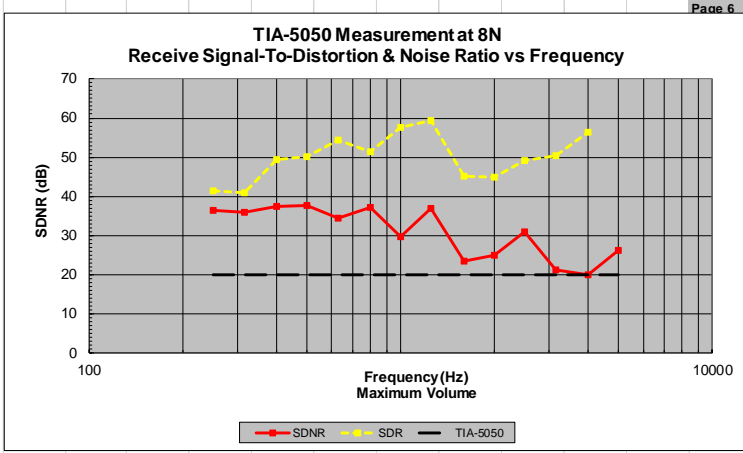
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.94 dB	info only		
	Recv conversational gain 8N	22.94 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.42 dB	info only		
	Recv conversational gain 2N	20.42 dB	6.00	PASS	

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	3.06 dB	Absolute Limits	PASS	

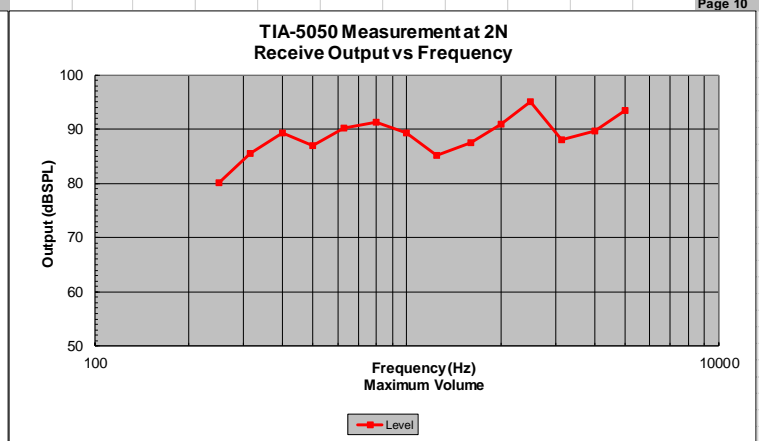
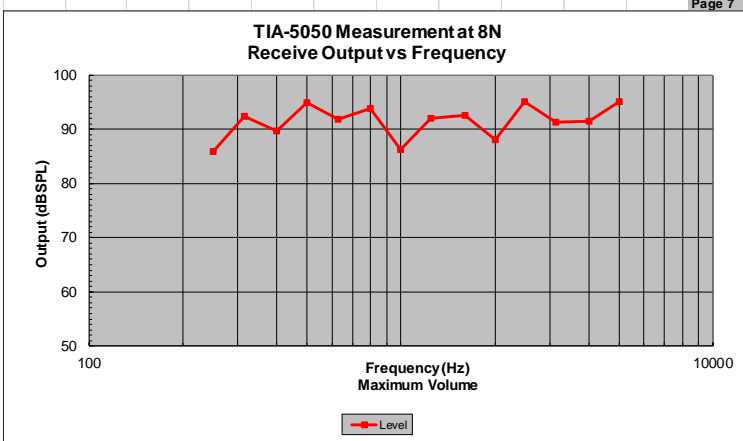
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB 256QAM

Distortion Report



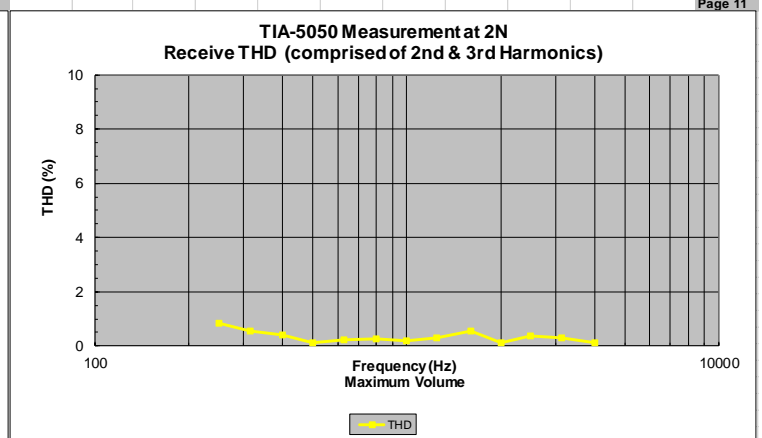
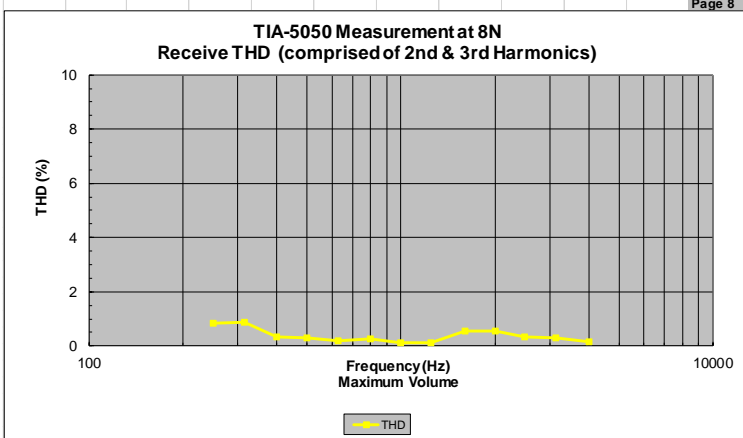
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/2/2024 7:32
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.06 dB	Absolute Limits	PASS	6/2/2024 7:32
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 7:32	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 7:32	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 7:32	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 7:32	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

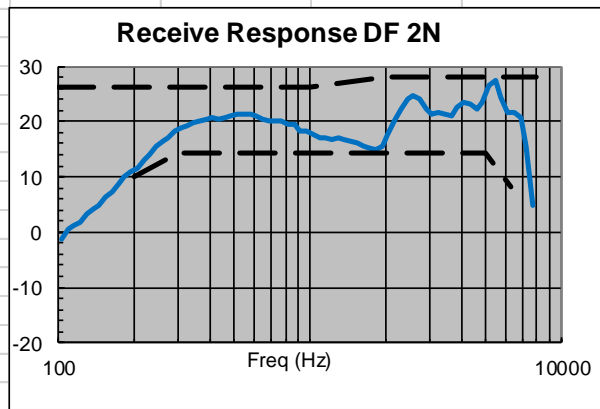
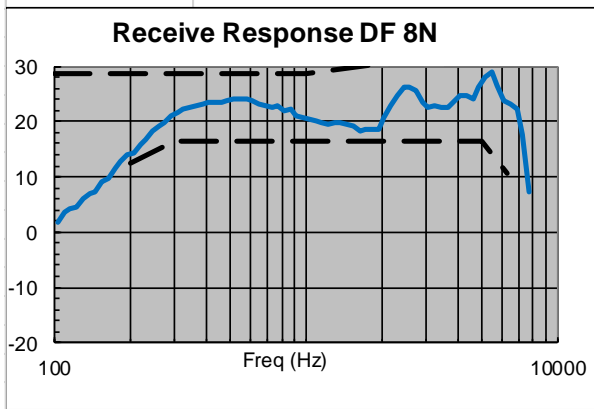
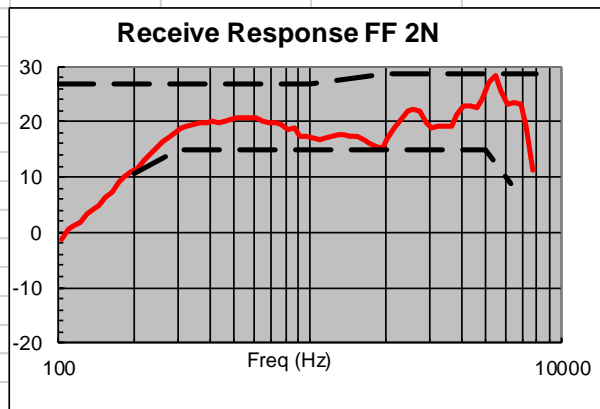
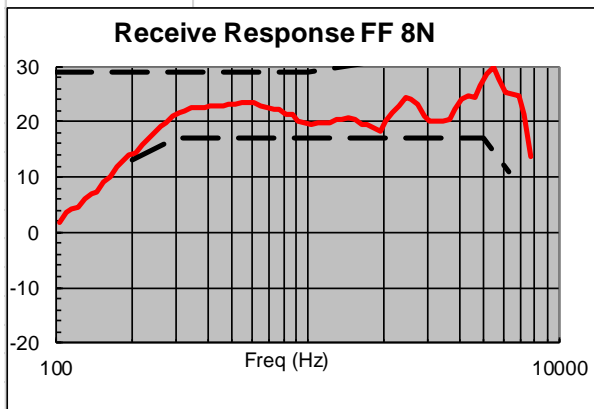
**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK 1.4 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B25 EVS-WB 1.4
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.17 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.51 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.8 dB	Floating Limits	PASS	



Output

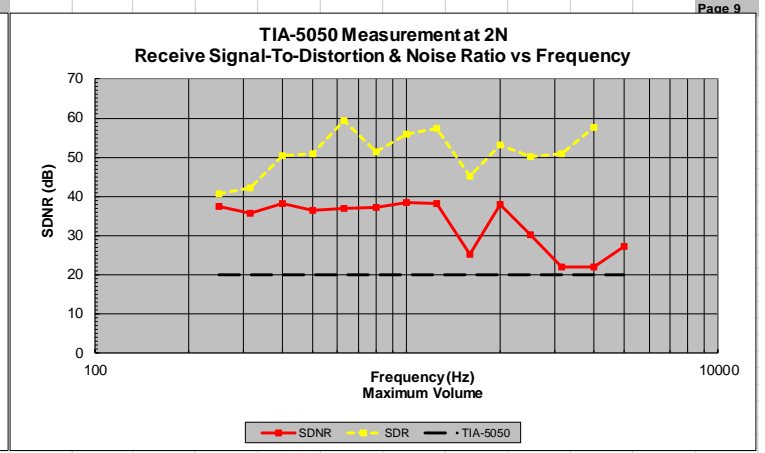
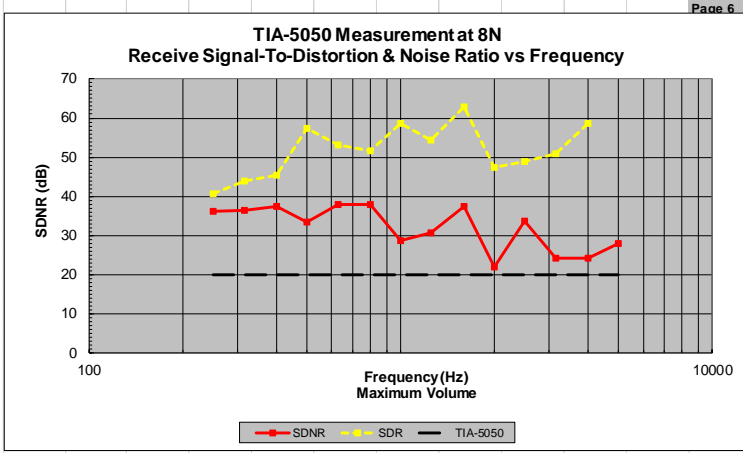
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.12 dB	info only		
	Recv conversational gain 8N	23.12 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.42 dB	info only		
	Recv conversational gain 2N	20.42 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.91 dB	Absolute Limits	PASS	

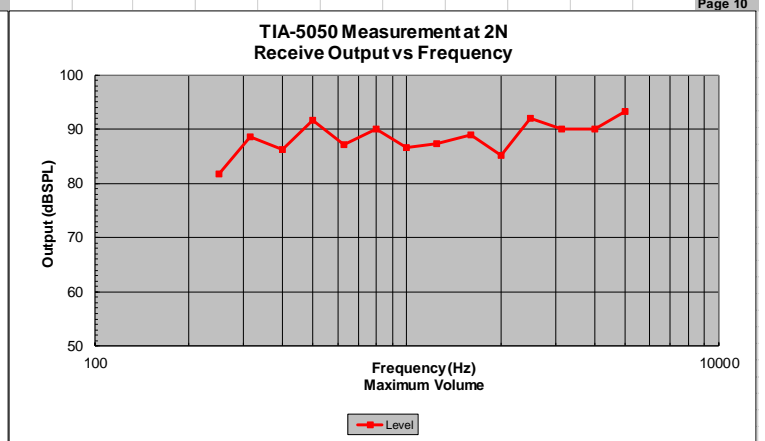
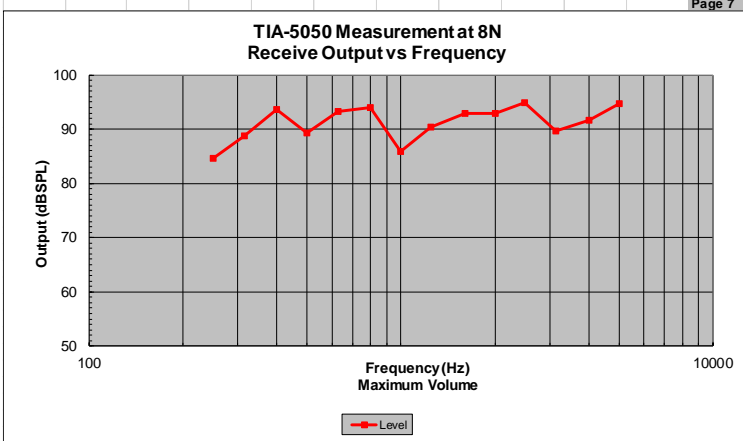
LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK 1.4 MHz

Distortion Report



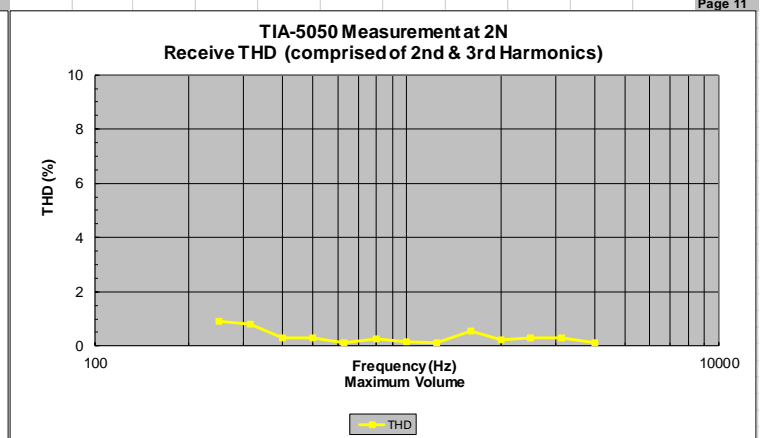
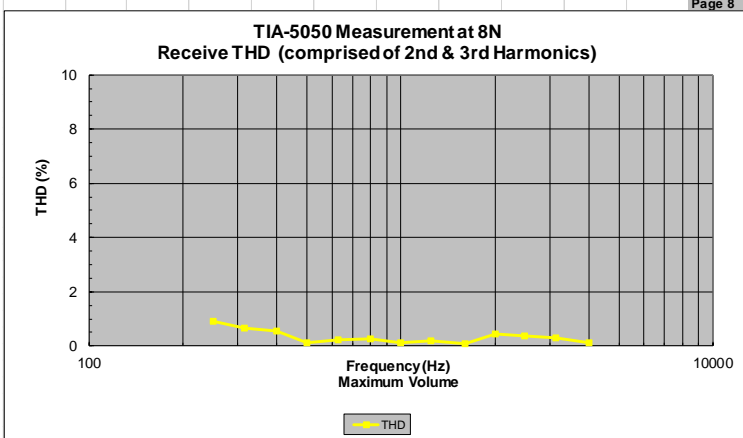
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	6/2/2024 7:41
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.91 dB	Absolute Limits	PASS	6/2/2024 7:41
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 7:41	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 7:41	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 7:41	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

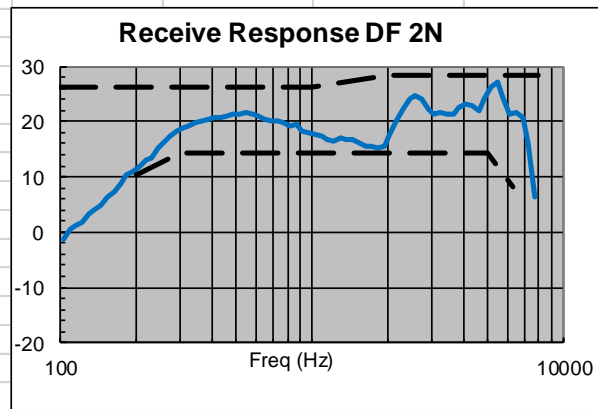
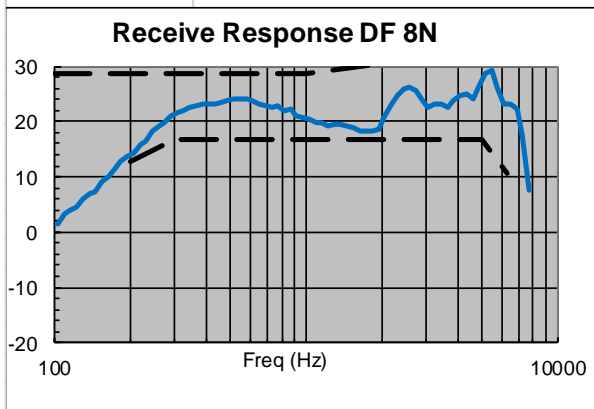
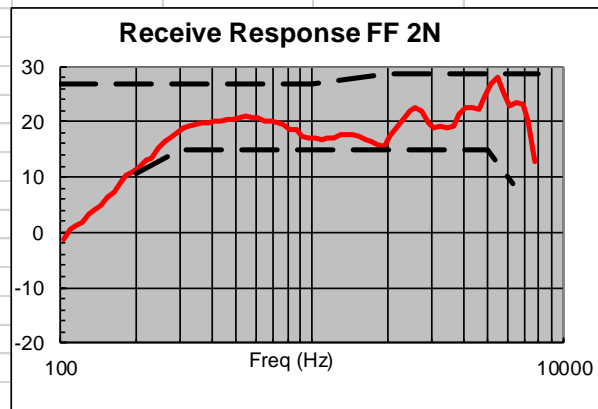
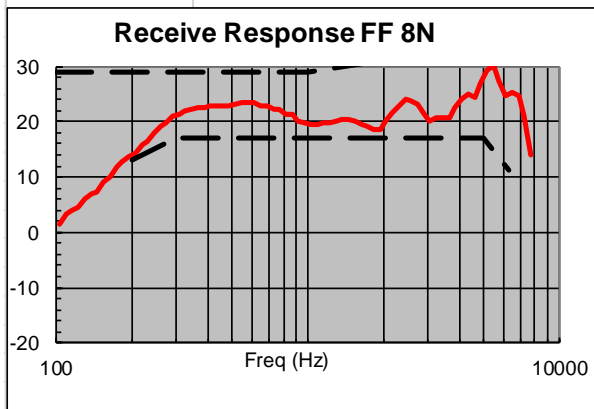
Test Date	
6/2/2024 7:41	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

LTE Band 7 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report
TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B7 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.87 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.65 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.1 dB	Floating Limits	PASS	



Output

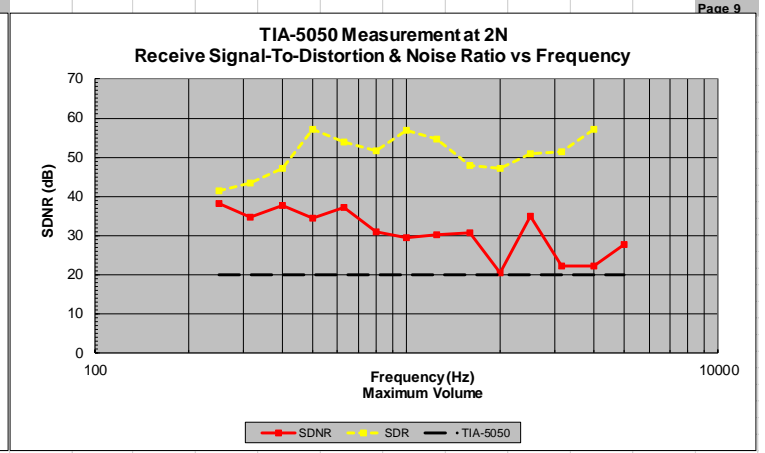
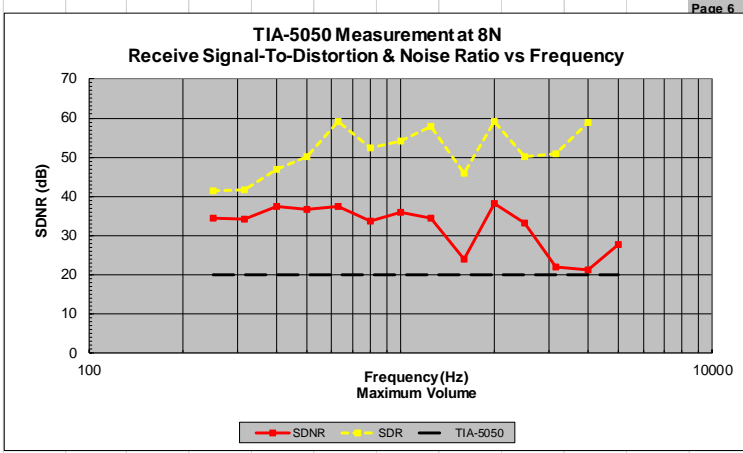
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	93.07 dB	info only		
	Recv conversational gain 8N	23.07 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.48 dB	info only		
	Recv conversational gain 2N	20.48 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.45 dB	Absolute Limits	PASS	

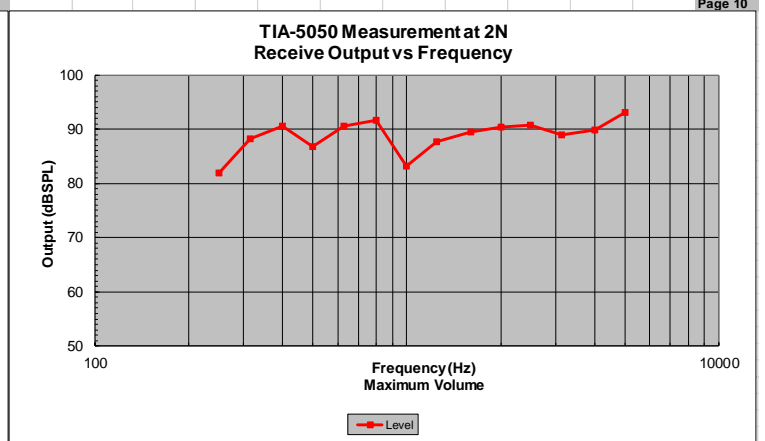
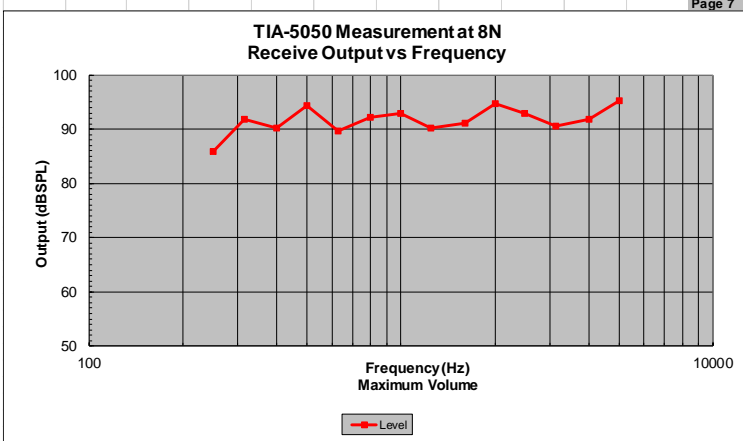
LTE Band 7 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz

Distortion Report



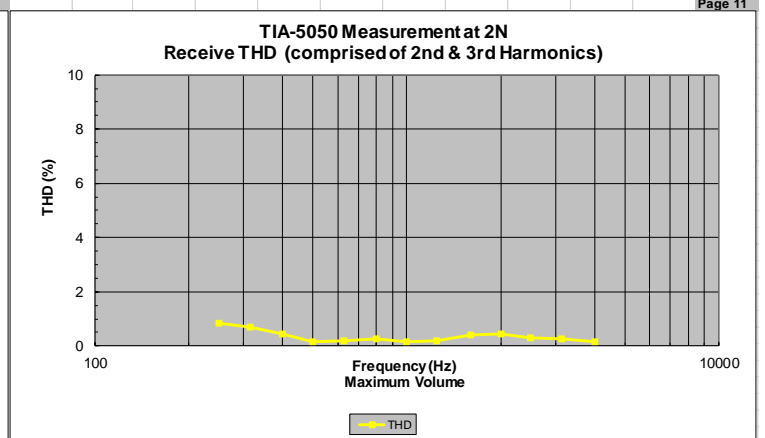
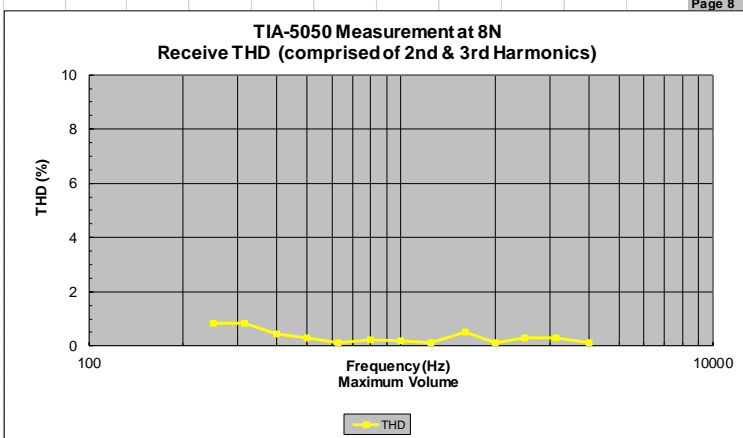
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.3 dB	Absolute Limits	PASS	6/2/2024 7:53
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.45 dB	Absolute Limits	PASS	6/2/2024 7:53
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 7:53	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 7:53	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 7:53	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 7:53	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

LTE Band 12 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

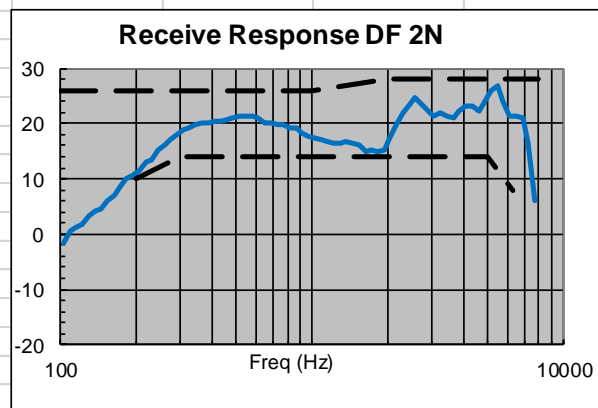
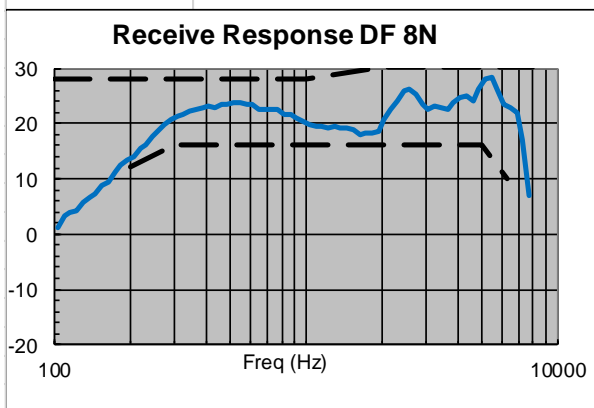
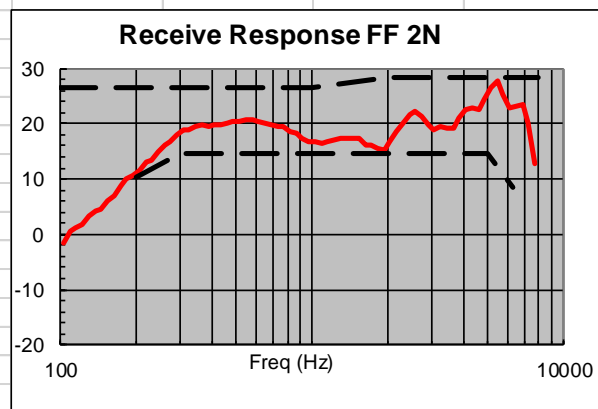
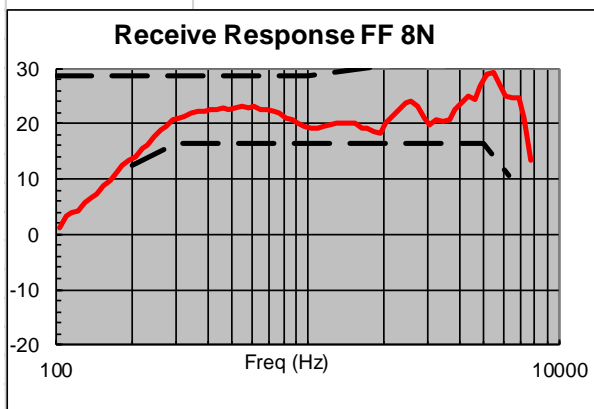
Conversational Gain & Frequency Response Report

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B12 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.21 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.72 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.1 dB	Floating Limits	PASS	



Output

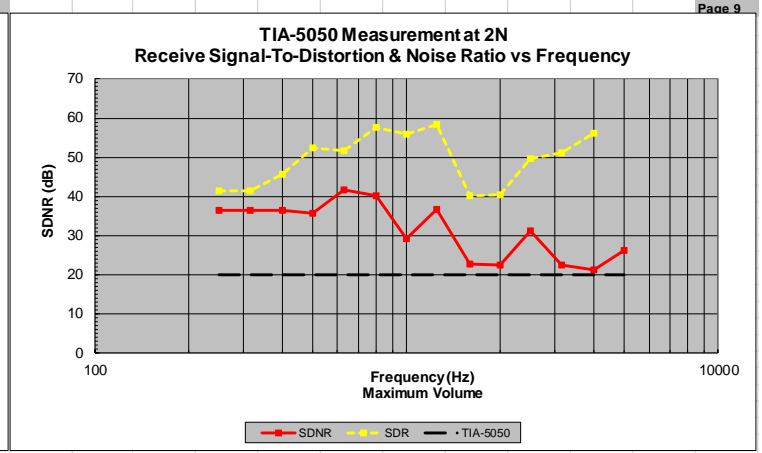
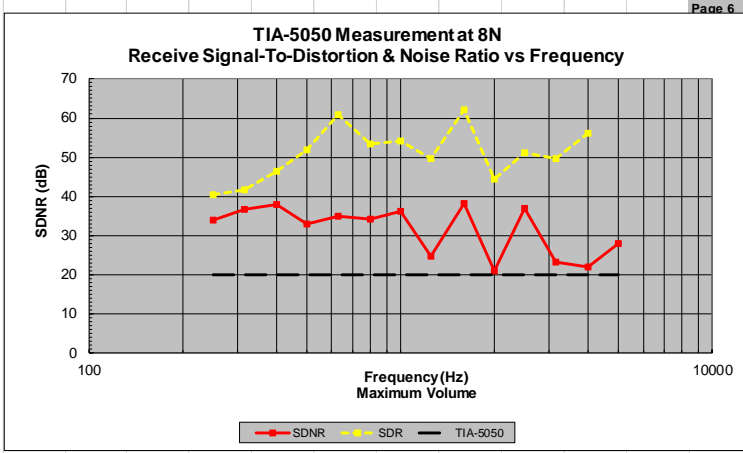
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.78 dB	info only		
	Recv conversational gain 8N	22.78 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.29 dB	info only		
	Recv conversational gain 2N	20.29 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.27 dB	Absolute Limits	PASS	

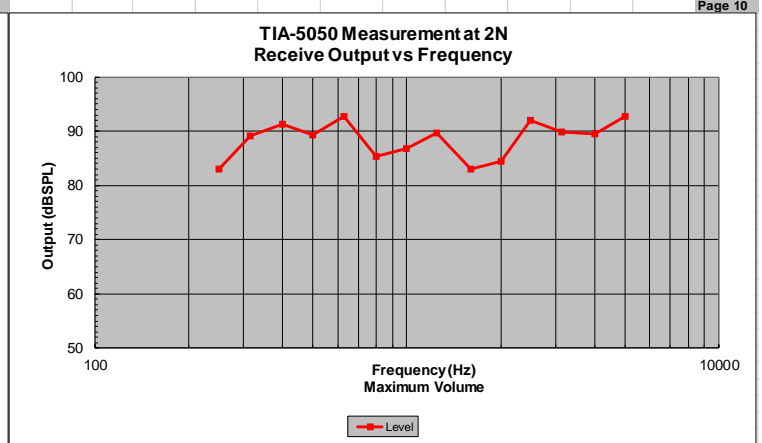
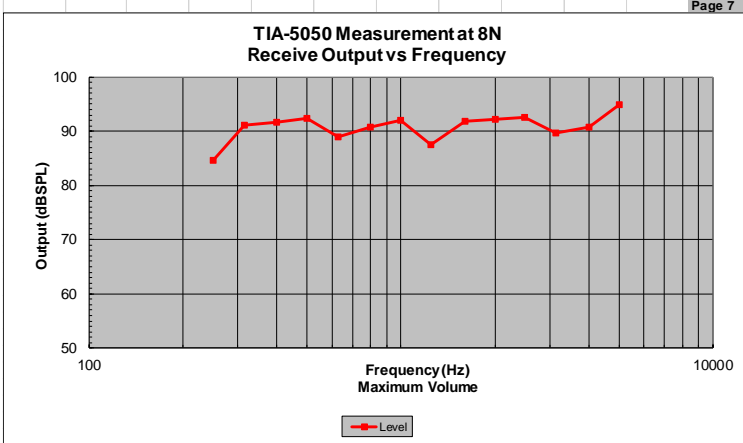
LTE Band 12 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

Distortion Report



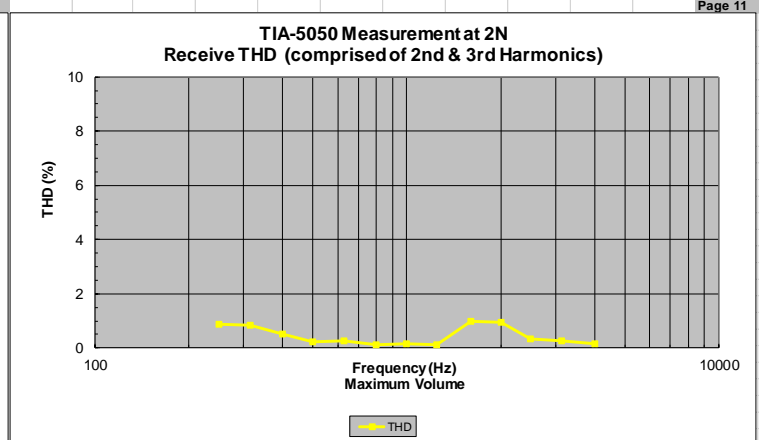
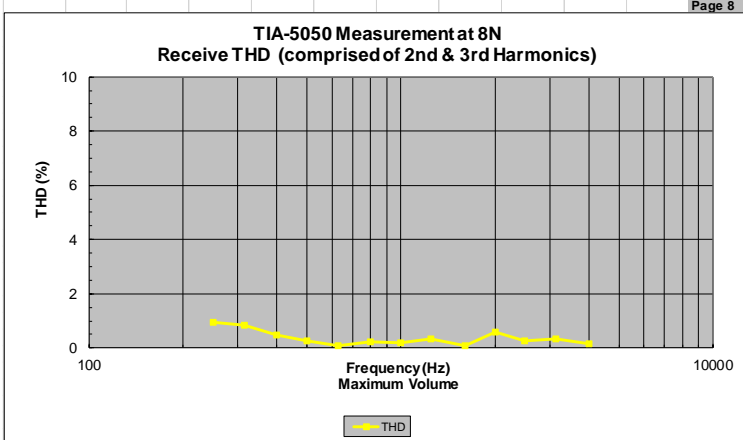
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	6/2/2024 8:39
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-20 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.27 dB	Absolute Limits	PASS	6/2/2024 8:39
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	-20 dBPa	
Comments:	24.4 kbps			



Test Date		
6/2/2024 8:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/2/2024 8:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	



Test Date		
6/2/2024 8:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/2/2024 8:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

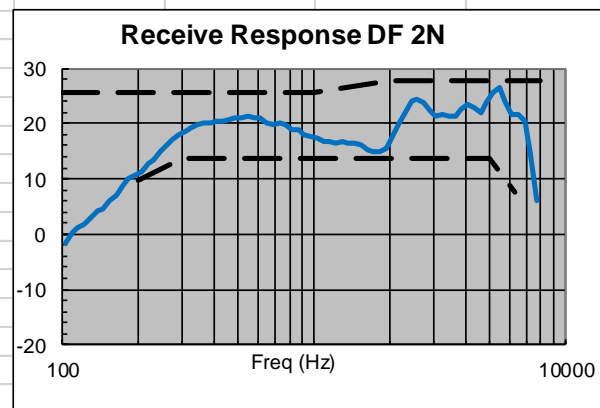
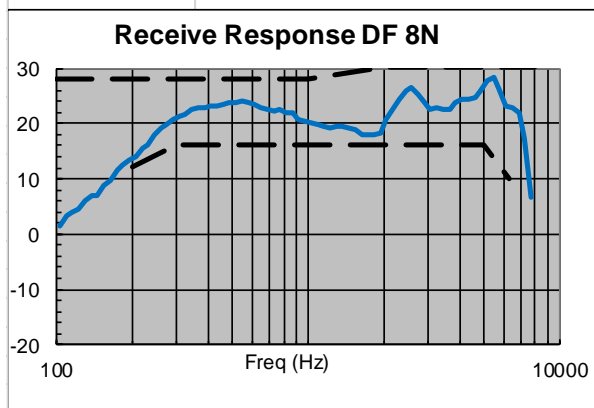
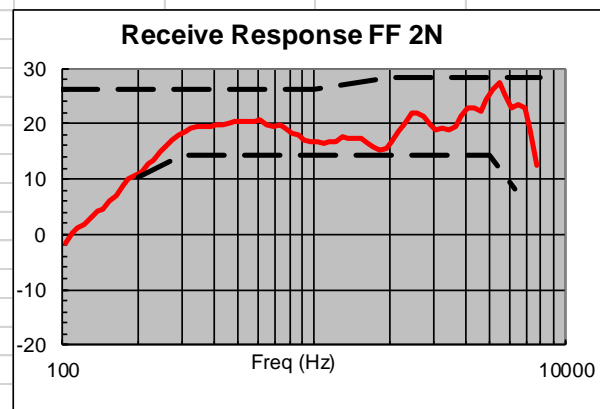
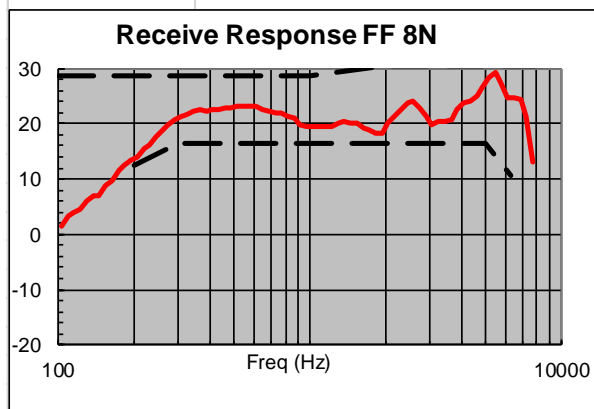
**LTE Band 13 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B13 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.16 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.84 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



Output

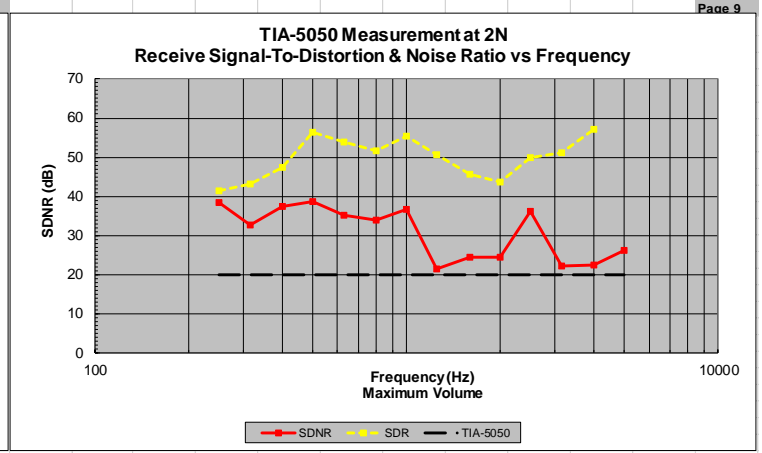
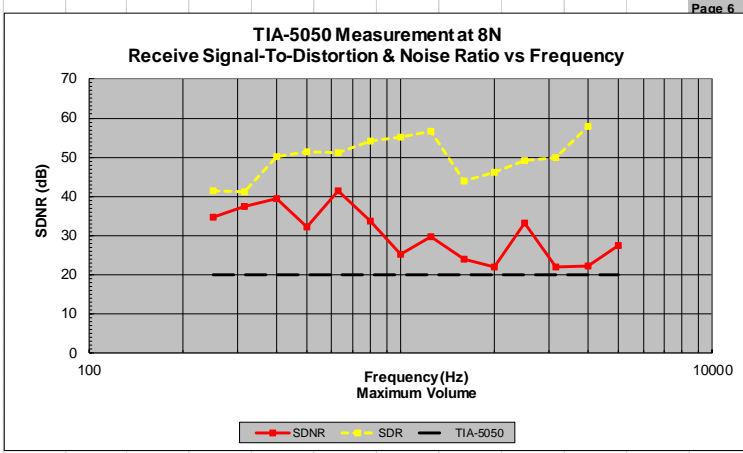
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	92.88 dB	info only		
	Recv conversational gain 8N	22.88 dB	18.00	PASS	
	Recv output level dBSPL 2N	90.24 dB	info only		
	Recv conversational gain 2N	20.24 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.54 dB	Absolute Limits	PASS	

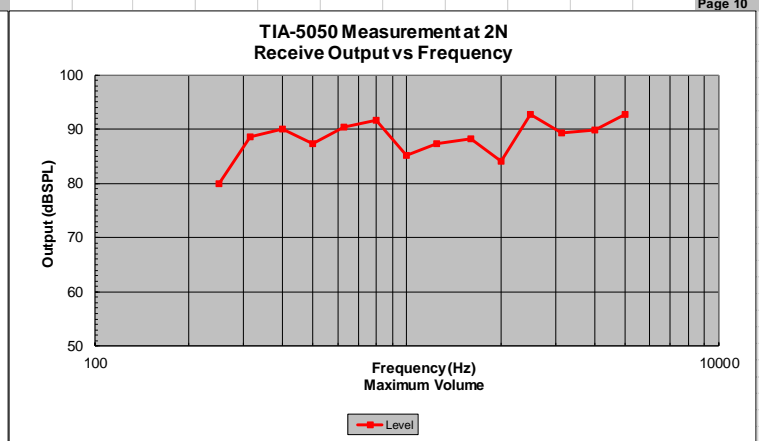
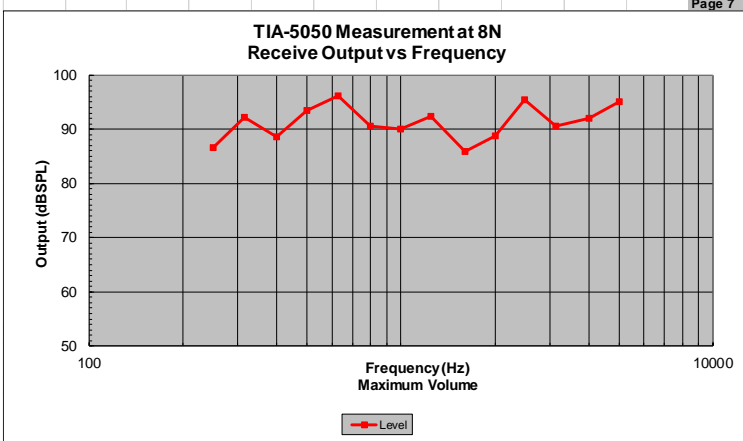
LTE Band 13 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

Distortion Report



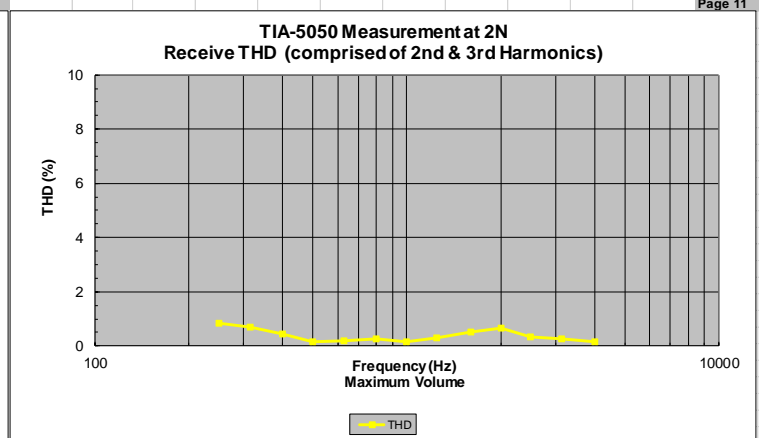
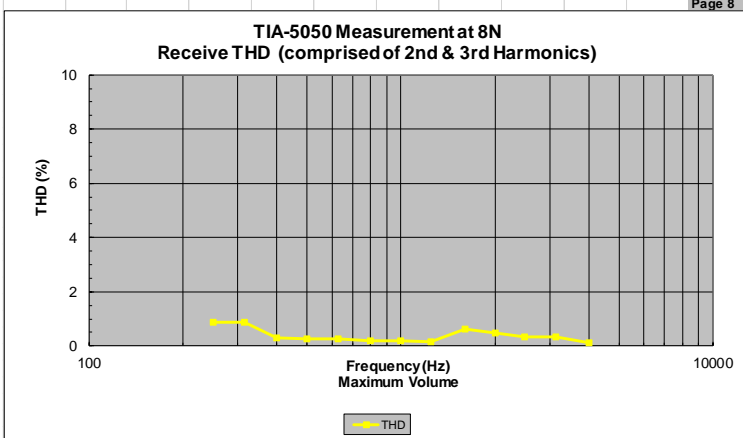
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	6/2/2024 8:55
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.54 dB	Absolute Limits	PASS	6/2/2024 8:55
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 8:55	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 8:55	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 8:55	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 8:55	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

LTE Band 14 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

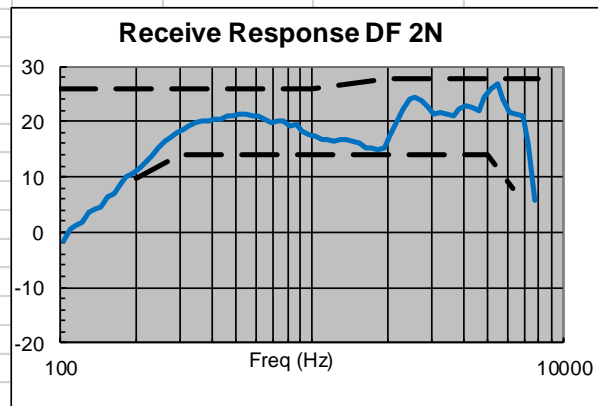
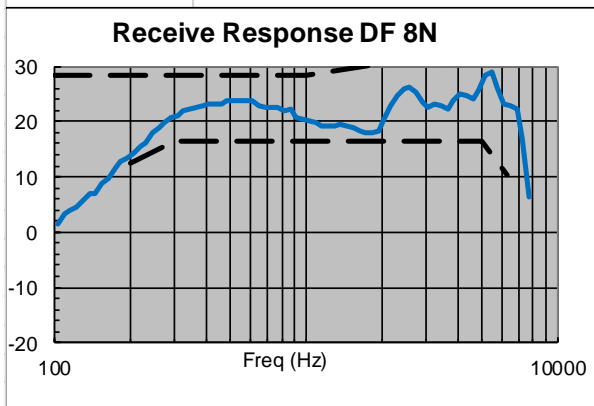
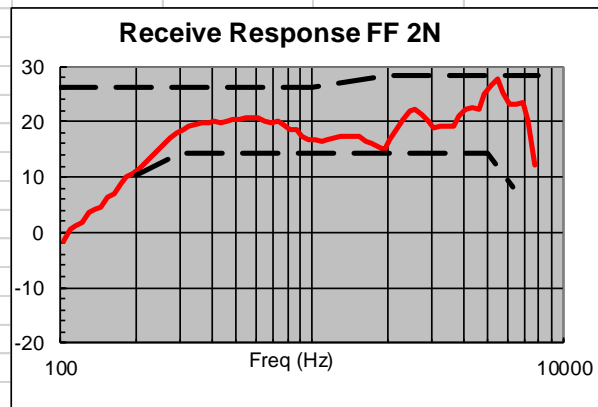
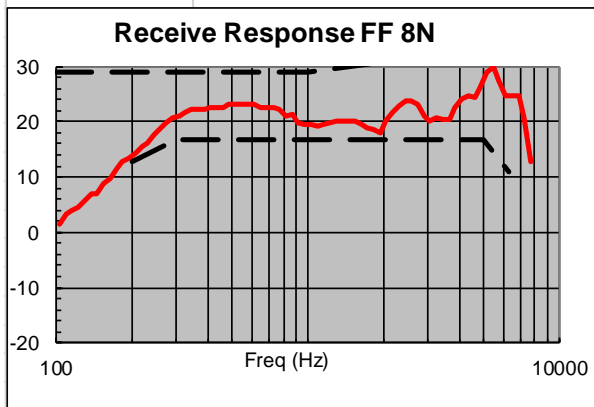
Conversational Gain & Frequency Response Report

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B14 EVS-WB
Bandwidth:	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.08 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.72 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



Output

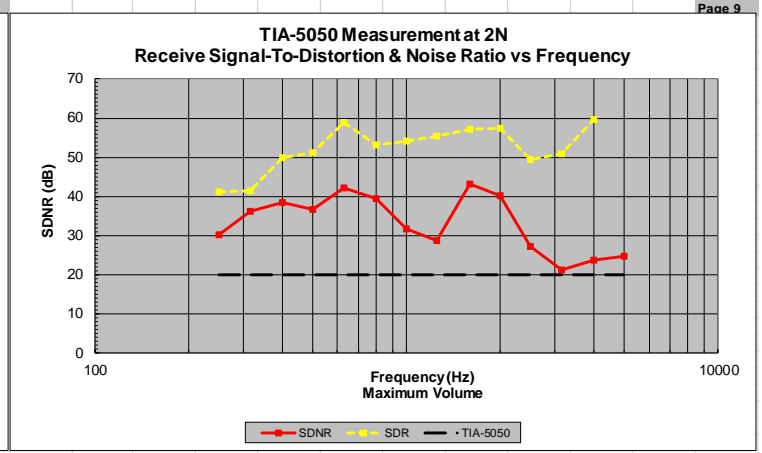
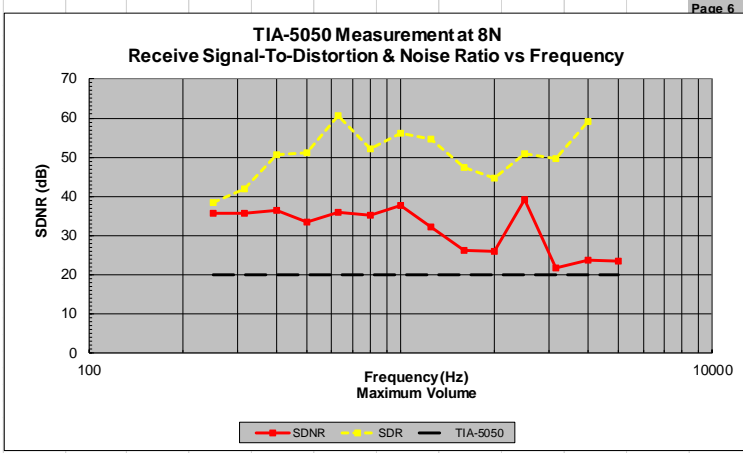
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.88 dB	info only		
	Recv conversational gain 8N	22.88 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.36 dB	info only		
	Recv conversational gain 2N	20.36 dB	6.00	PASS	

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	1.17 dB	Absolute Limits	PASS	

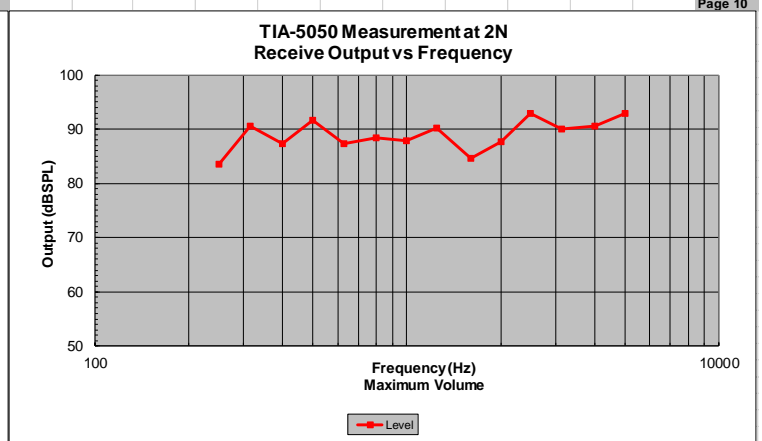
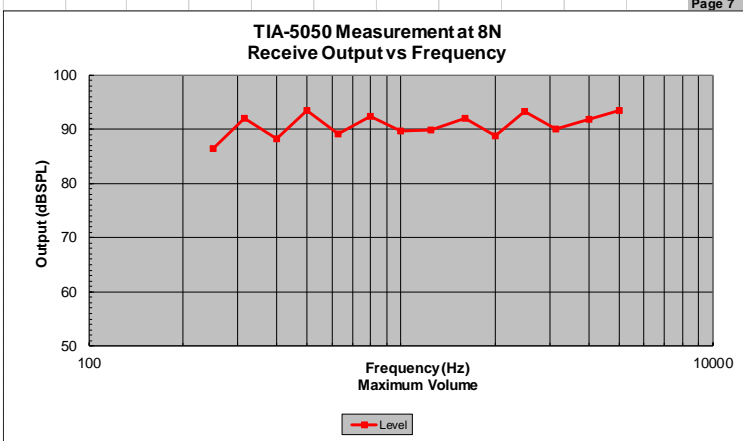
LTE Band 14 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

Distortion Report



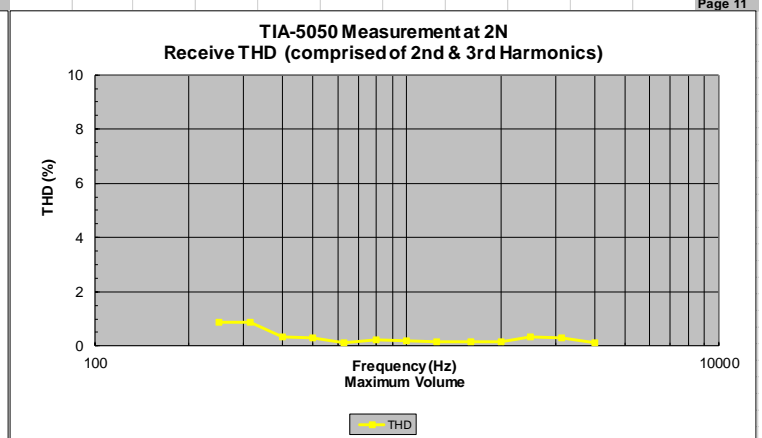
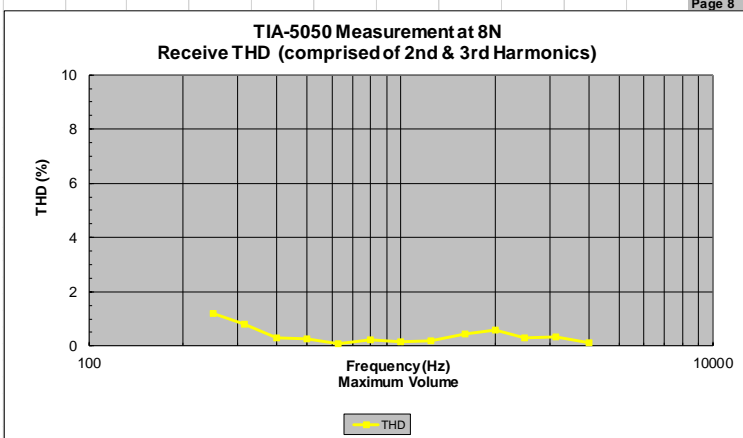
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	6/2/2024 9:04
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.17 dB	Absolute Limits	PASS	6/2/2024 9:04
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
6/2/2024 9:04
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/2/2024 9:04
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/2/2024 9:04
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/2/2024 9:04
Stimulus level
Sentence conditioning
Short conditioning
Comments:

LTE Band 26 EVS-WB: 24.4 kbps 1,0 RB QPSK 15 MHz

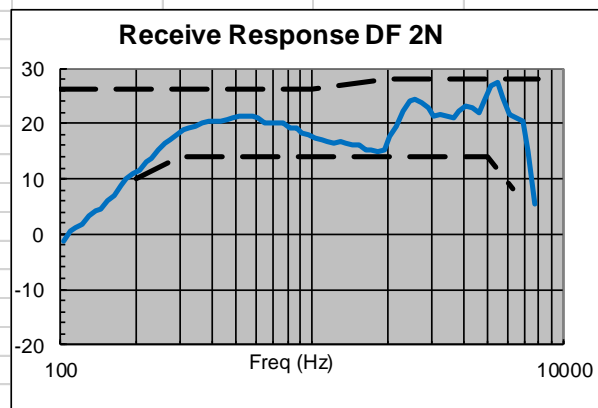
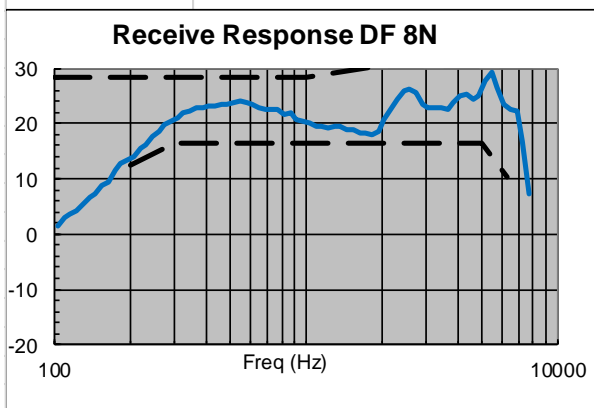
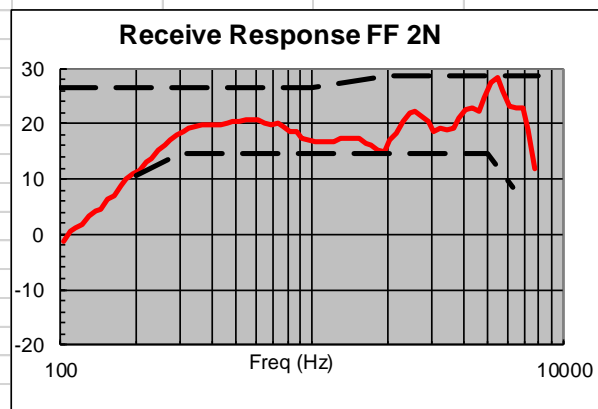
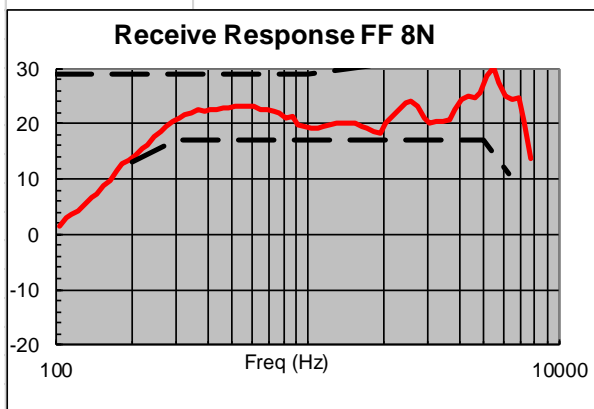
Conversational Gain & Frequency Response Report

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B26 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.89 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.4 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.8 dB	Floating Limits	PASS	



Output

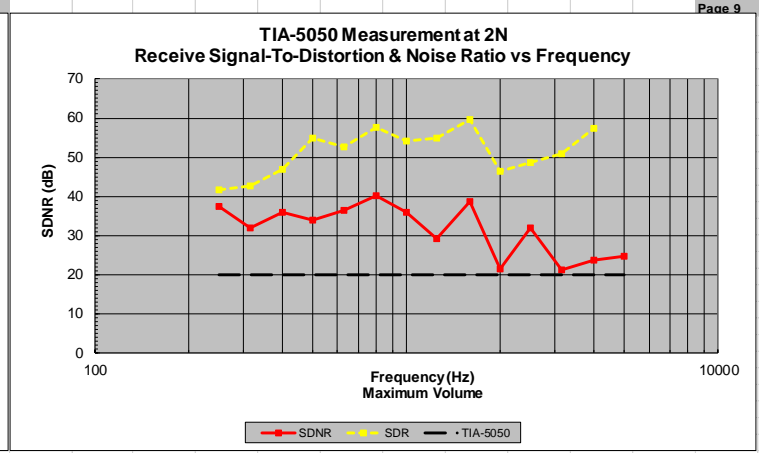
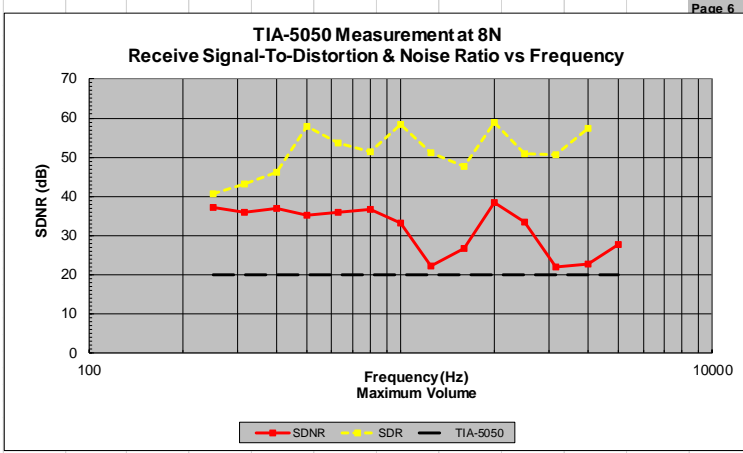
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.85 dB	info only		
	Recv conversational gain 8N	22.85 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.34 dB	info only		
	Recv conversational gain 2N	20.34 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.18 dB	Absolute Limits	PASS	

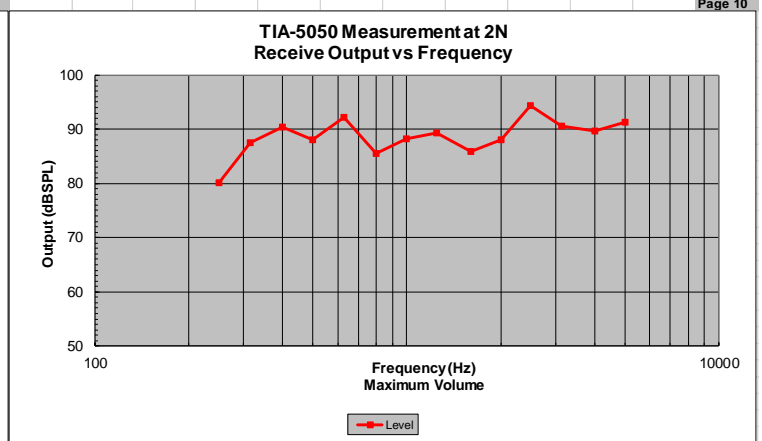
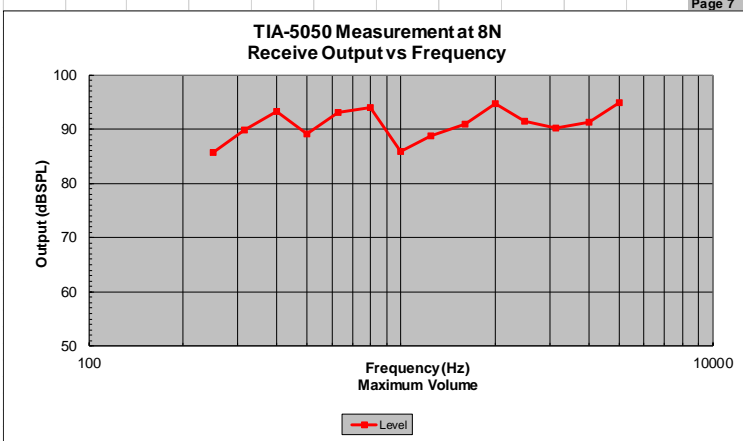
LTE Band 26 EVS-WB: 24.4 kbps 1,0 RB QPSK 15 MHz

Distortion Report



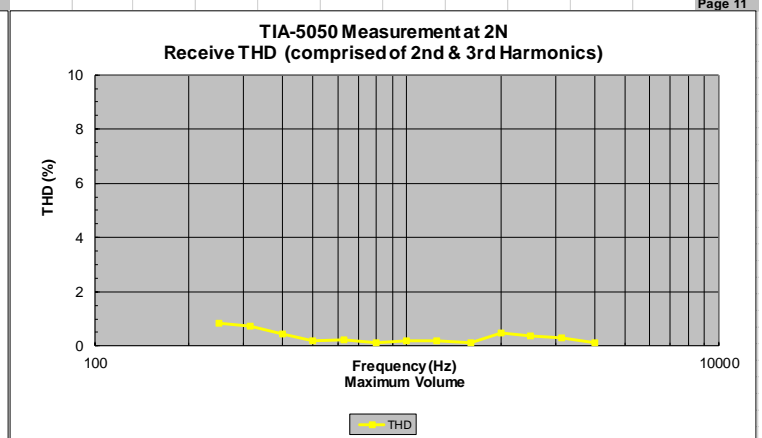
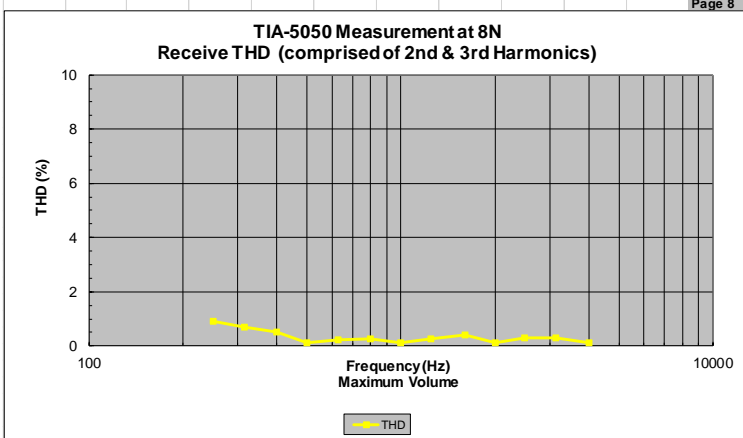
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	6/2/2024 9:13
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.18 dB	Absolute Limits	PASS	6/2/2024 9:13
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
6/2/2024 9:13
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/2/2024 9:13
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/2/2024 9:13
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/2/2024 9:13
Stimulus level
Sentence conditioning
Short conditioning
Comments:

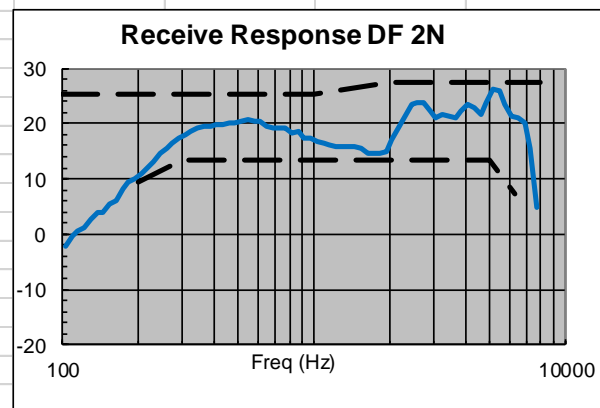
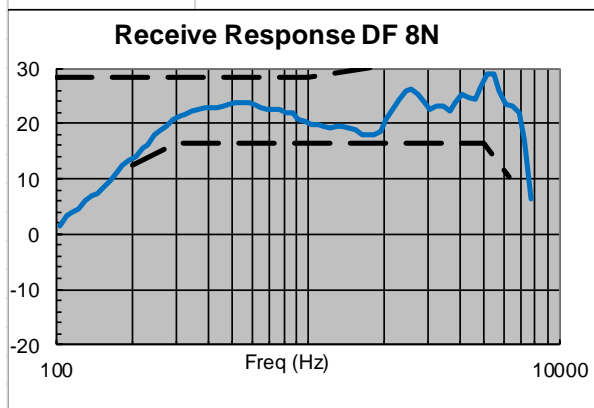
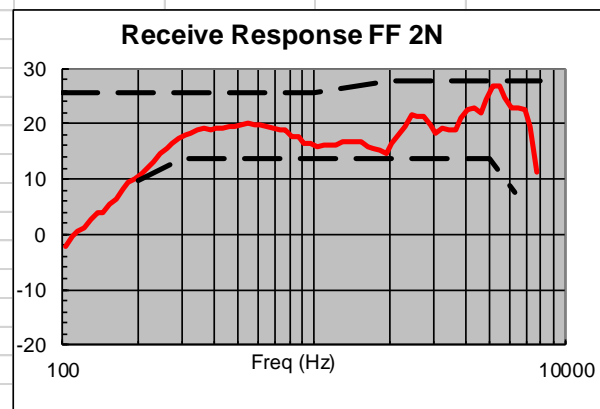
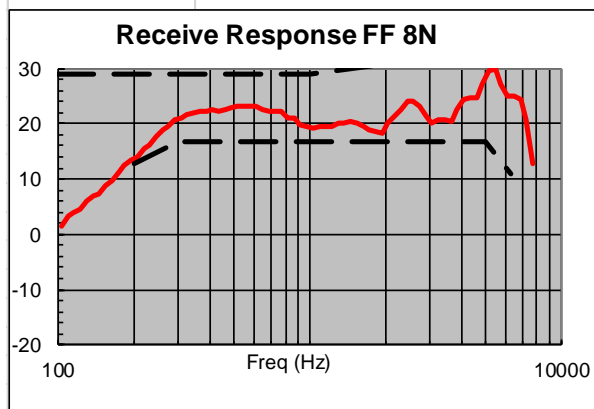
**LTE Band 30 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B30 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.91 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.84 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



Output

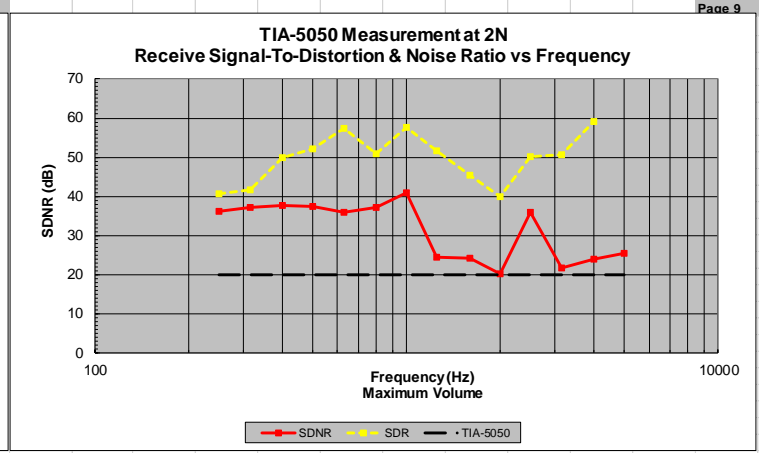
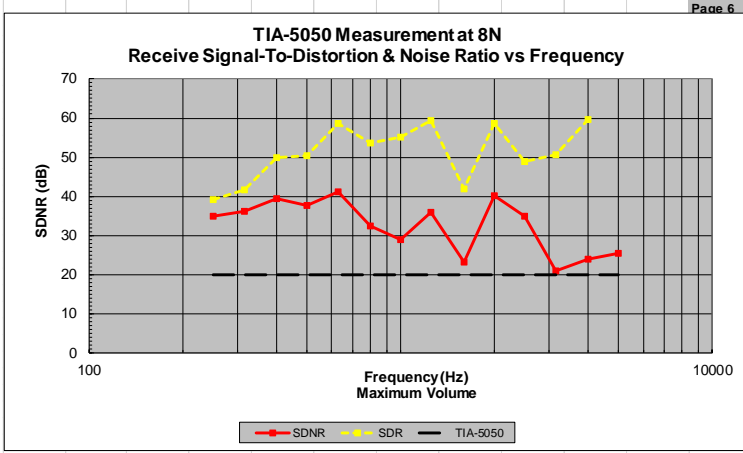
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.8 dB	info only		
	Recv conversational gain 8N	22.8 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.64 dB	info only		
	Recv conversational gain 2N	19.64 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.19 dB	Absolute Limits	PASS	

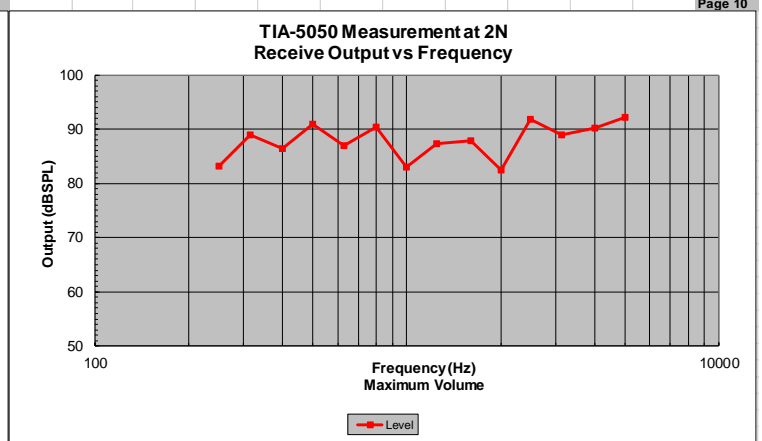
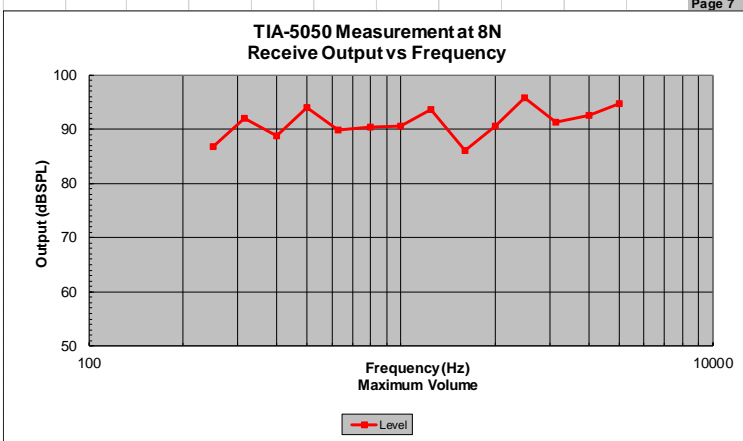
LTE Band 30 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

Distortion Report



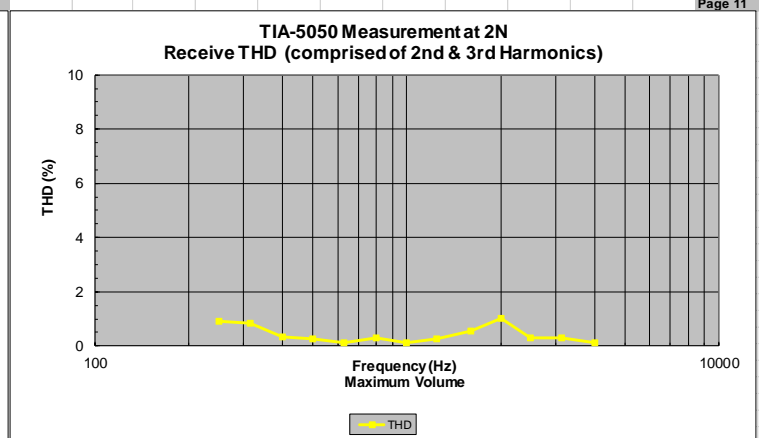
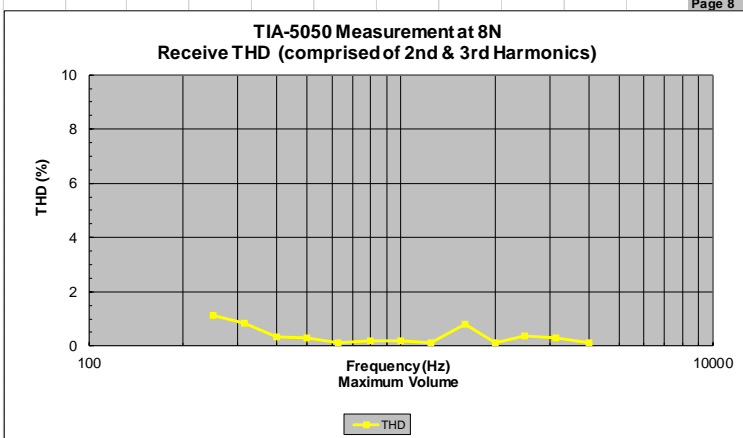
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	6/2/2024 8:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.19 dB	Absolute Limits	PASS	6/2/2024 8:30
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: -20 dBPa
Comments:	24.4 kbps			



Test Date
6/2/2024 8:30
Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -20 dBPa
Comments: 24.4 kbps

Test Date
6/2/2024 8:30
Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -20 dBPa
Comments: 24.4 kbps



Test Date
6/2/2024 8:30
Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -20 dBPa
Comments: 24.4 kbps

Test Date
6/2/2024 8:30
Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -20 dBPa
Comments: 24.4 kbps

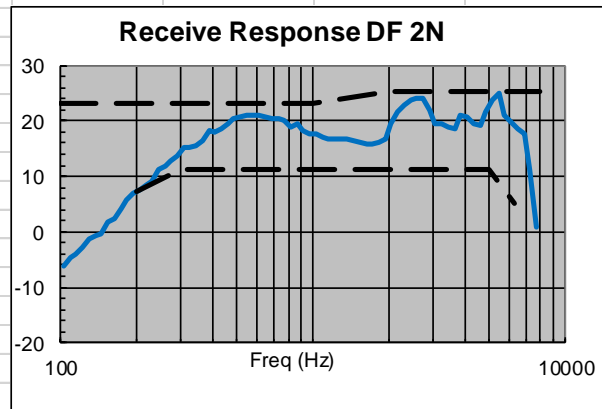
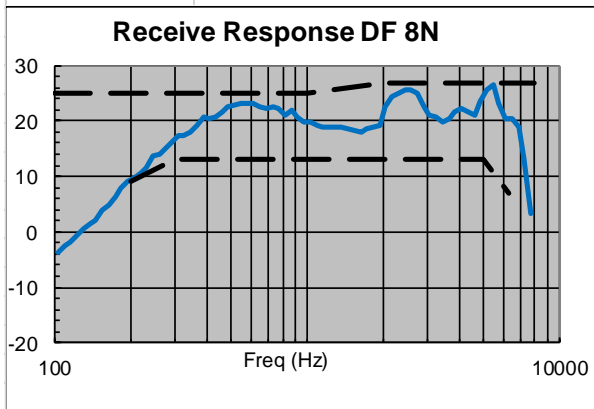
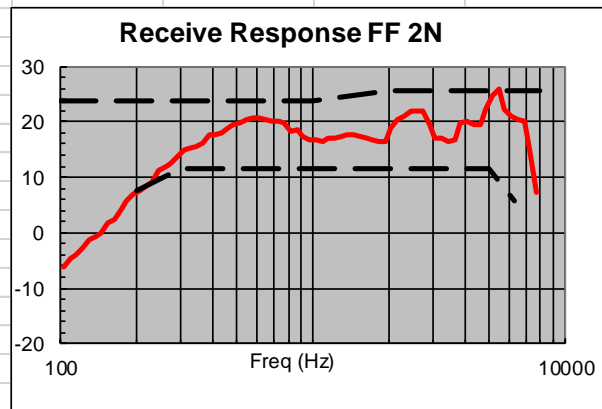
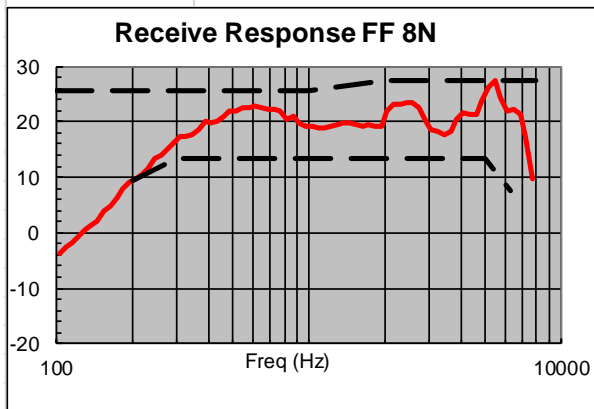
**LTE Band 41 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B41 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

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	0.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	-0.37 dB	Floating Limits	FAIL	
	Recv resp DF 2N	0.1 dB	Floating Limits	PASS	



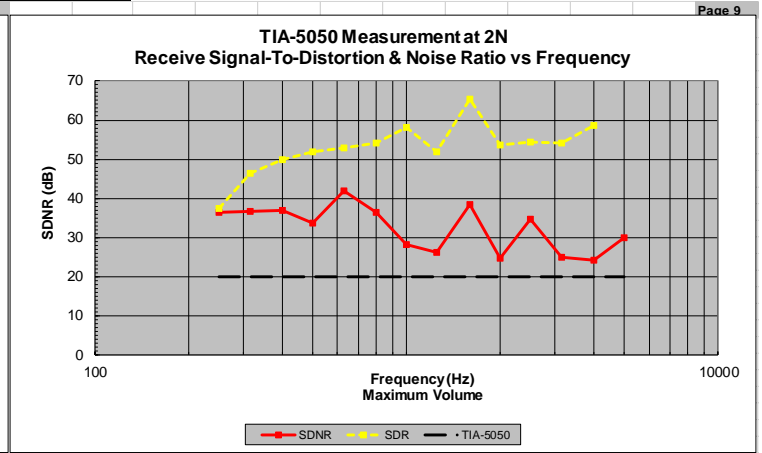
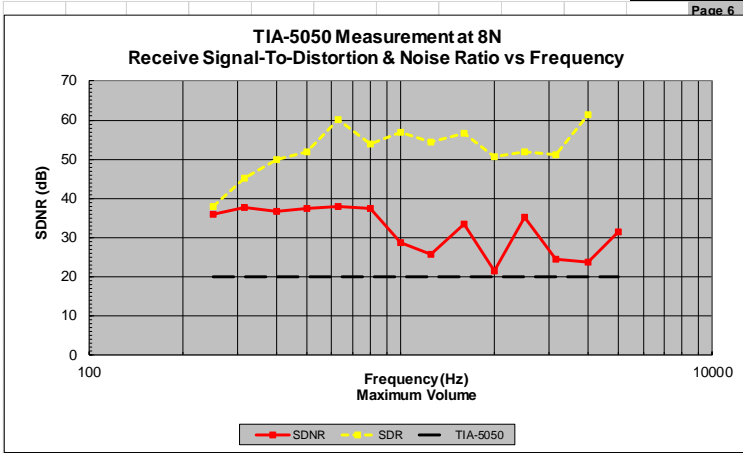
Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.44 dB	info only		
	Recv conversational gain 8N	21.44 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.28 dB	info only		
	Recv conversational gain 2N	19.28 dB	6.00	PASS	

Distortion

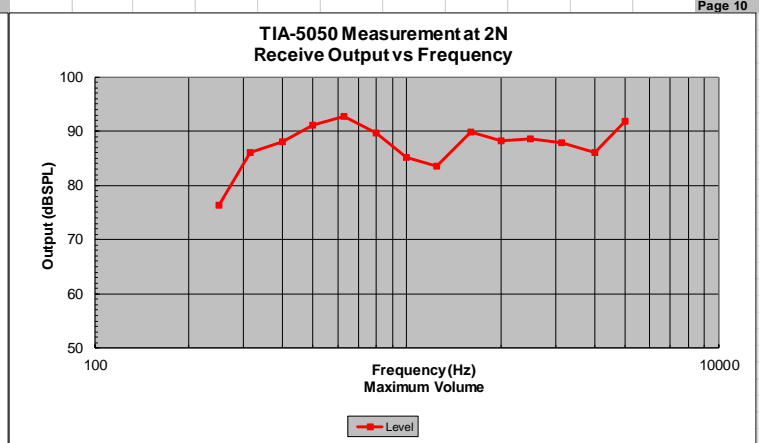
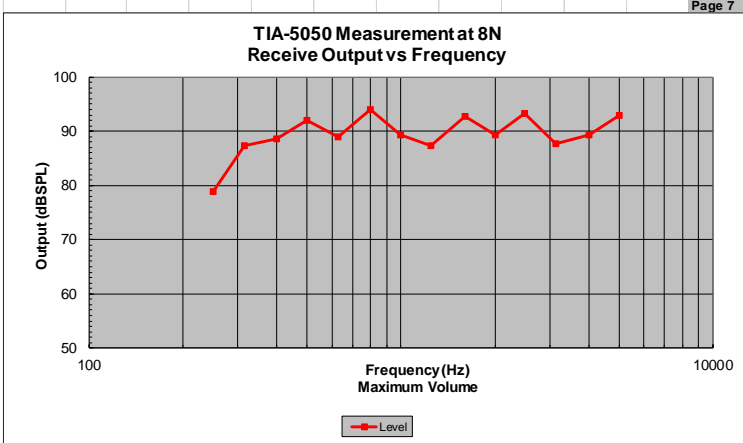
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.3 dB	Absolute Limits	PASS	

Distortion Report



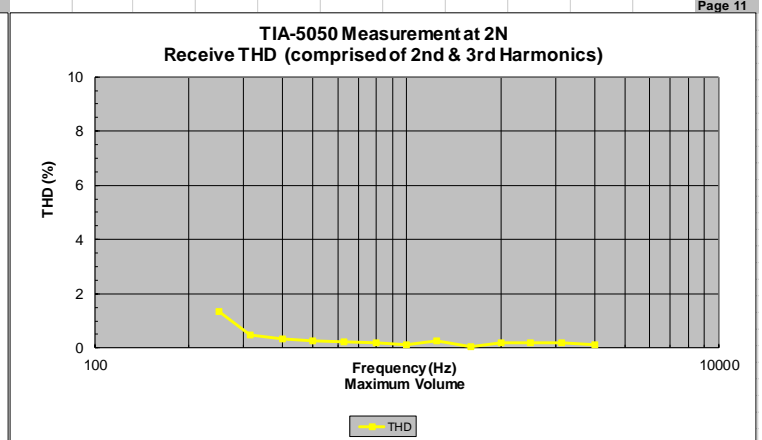
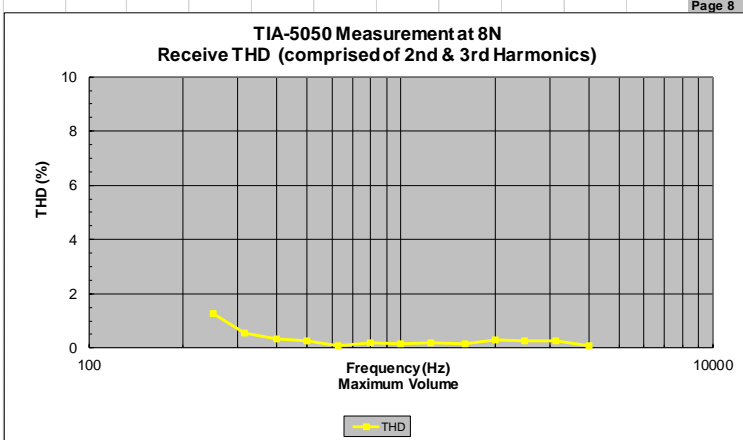
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	6/3/2024 10:39
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-20 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.3 dB	Absolute Limits	PASS	6/3/2024 10:39
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	-20 dBPa	
Comments:	24.4 kbps			



Test Date		
6/3/2024 10:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/3/2024 10:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	



Test Date		
6/3/2024 10:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/3/2024 10:39		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

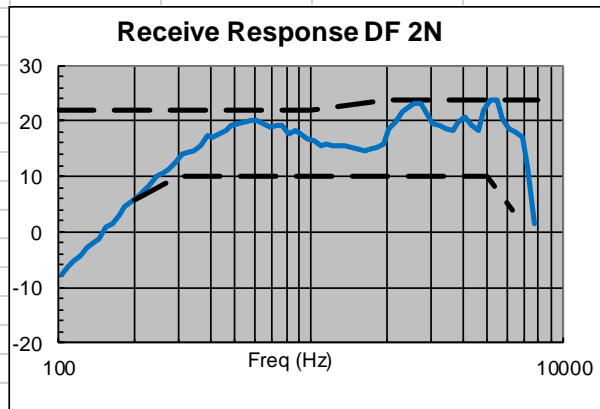
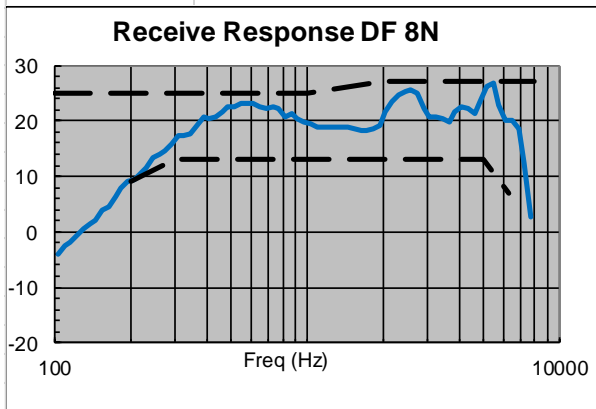
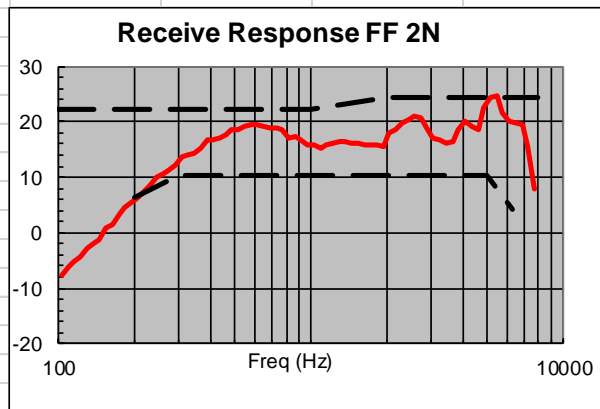
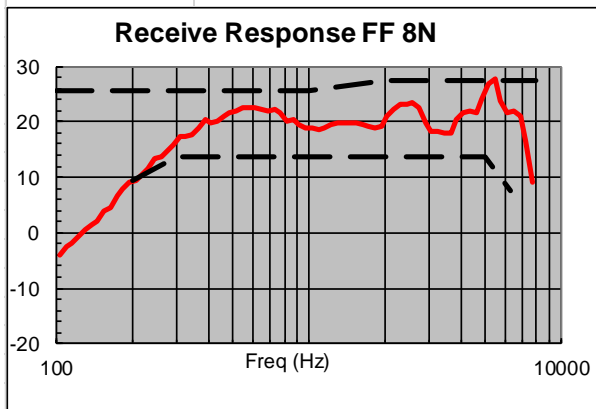
**LTE Band 41 PC2 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B41 PC2 EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

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	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	-0.39 dB	Floating Limits	FAIL	
	Recv resp DF 2N	0.1 dB	Floating Limits	PASS	



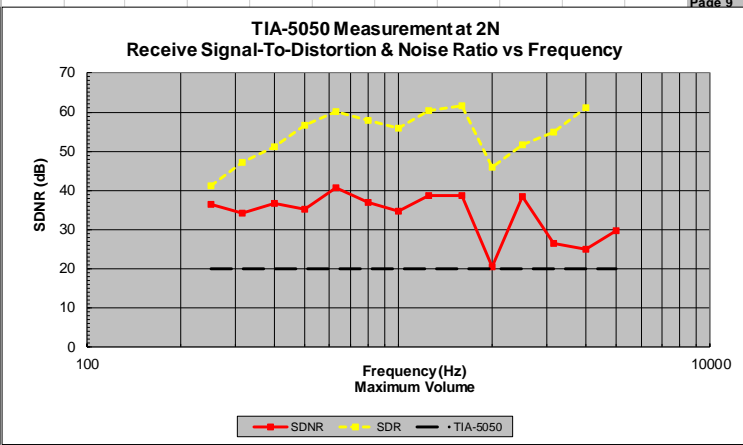
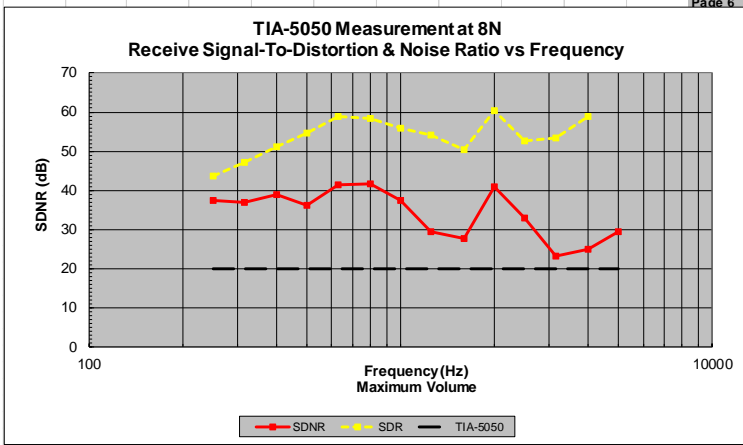
Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.34 dB	info only		
	Recv conversational gain 8N	21.34 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.18 dB	info only		
	Recv conversational gain 2N	18.18 dB	6.00	PASS	

Distortion

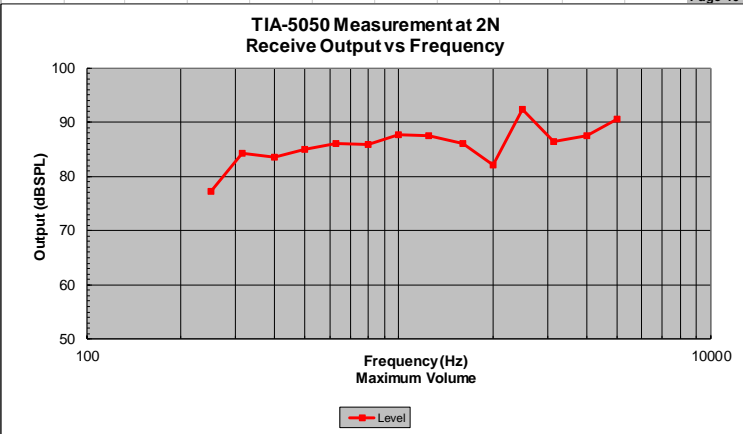
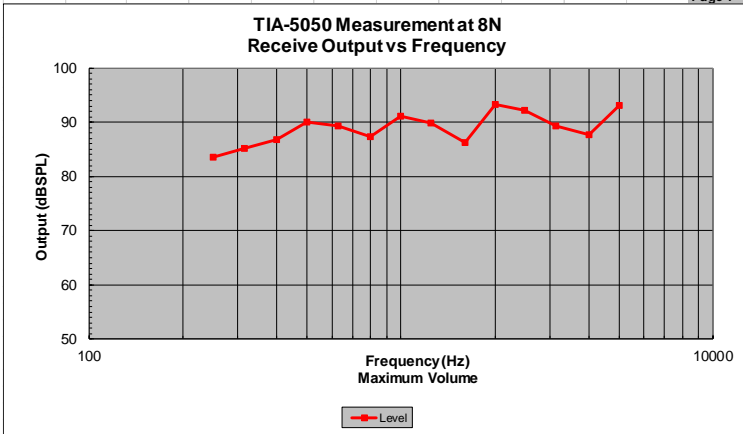
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.48 dB	Absolute Limits	PASS	

Distortion Report



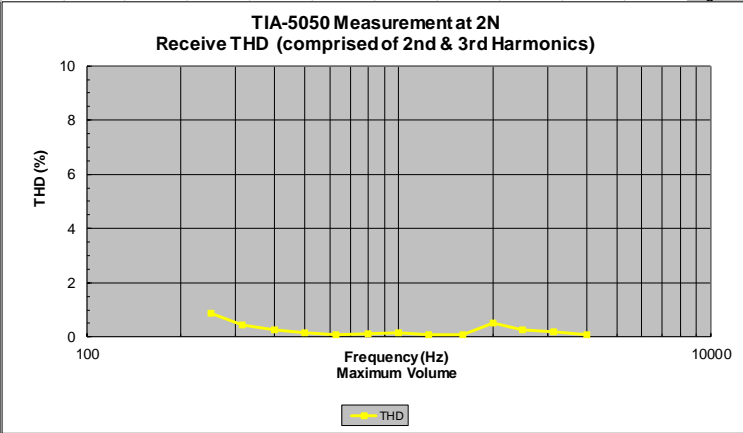
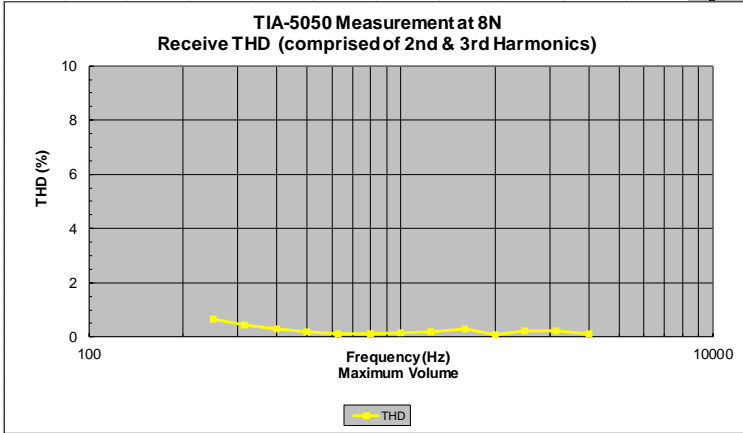
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.3 dB	Absolute Limits	PASS	6/3/2024 10:01
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.48 dB	Absolute Limits	PASS	6/3/2024 10:01
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				-20 dBPa
Comments:	24.4 kbps			



Test Date		
6/3/2024 10:01		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/3/2024 10:01		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	



Test Date		
6/3/2024 10:01		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/3/2024 10:01		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

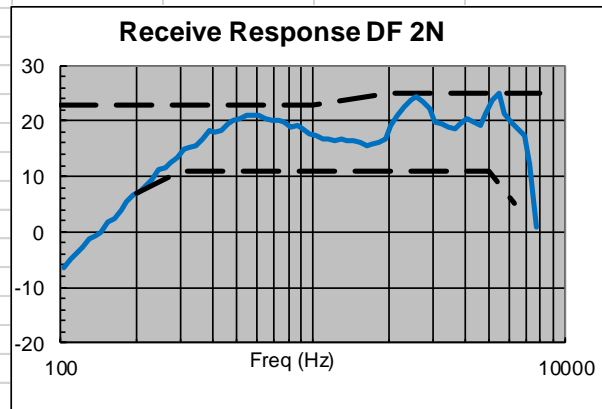
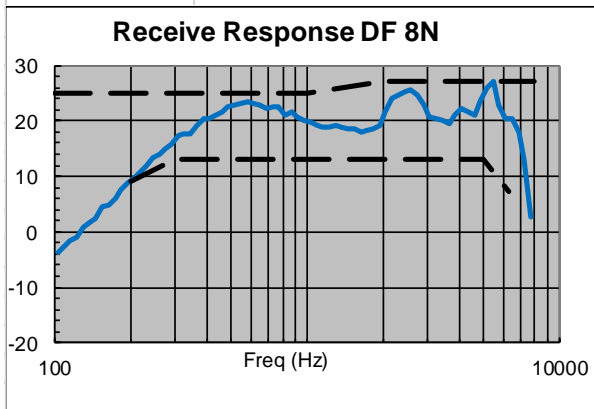
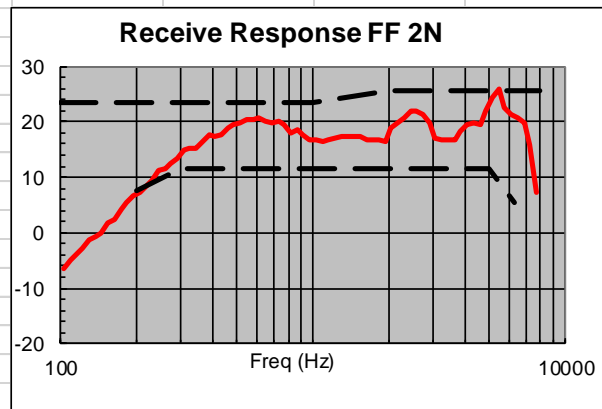
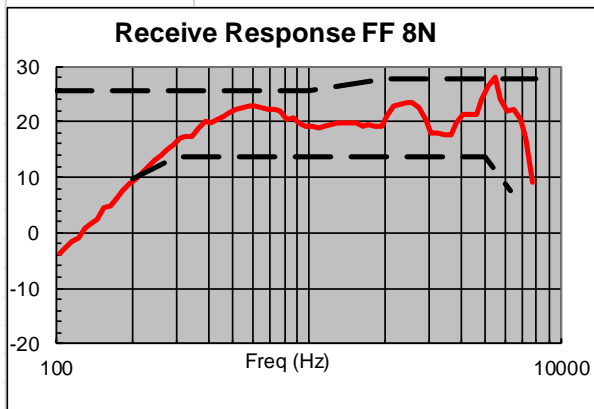
**LTE Band 48 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B48 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.3 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	-0.38 dB	Floating Limits	FAIL	
	Recv resp DF 2N	0.1 dB	Floating Limits	PASS	



Output

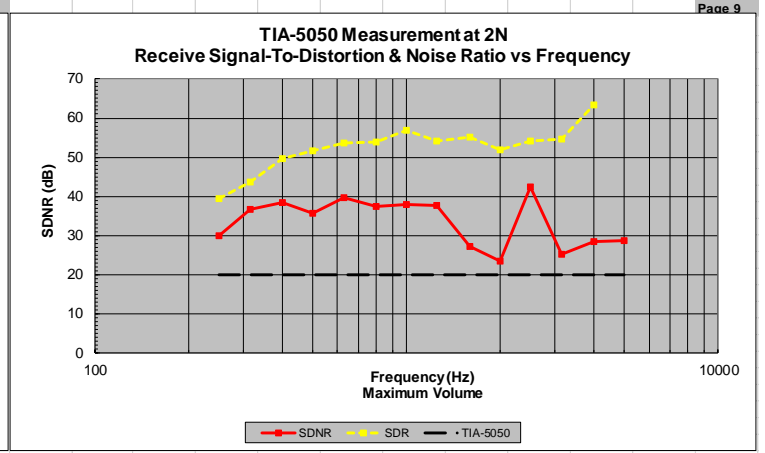
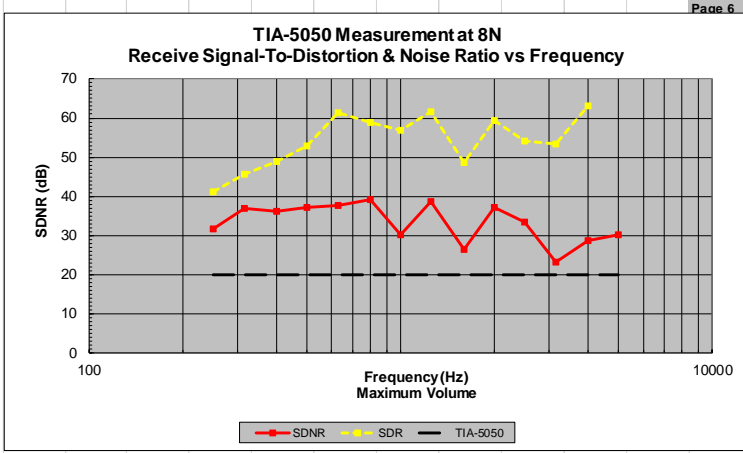
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.48 dB	info only		
	Recv conversational gain 8N	21.48 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.18 dB	info only		
	Recv conversational gain 2N	19.18 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.52 dB	Absolute Limits	PASS	

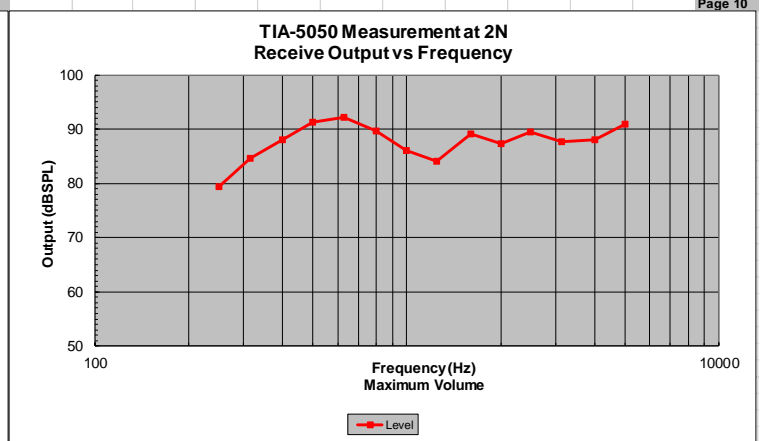
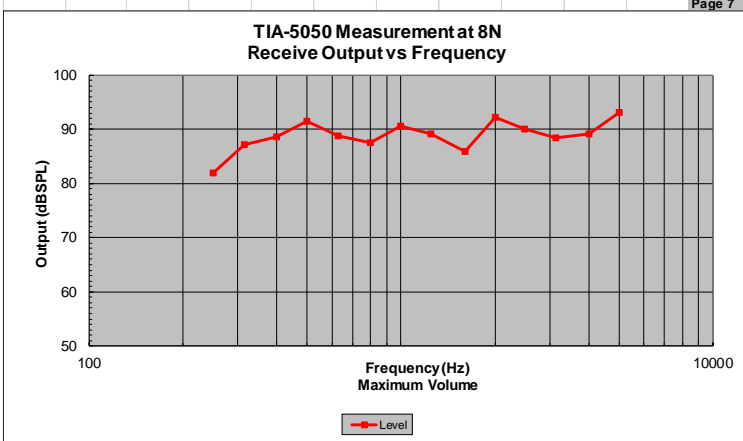
LTE Band 48 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz

Distortion Report



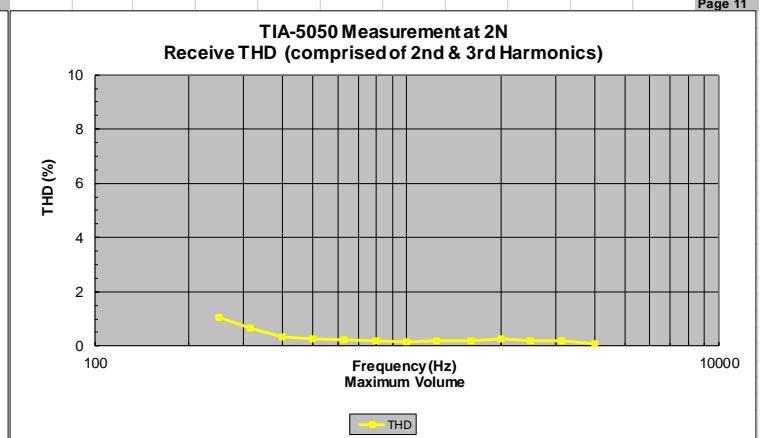
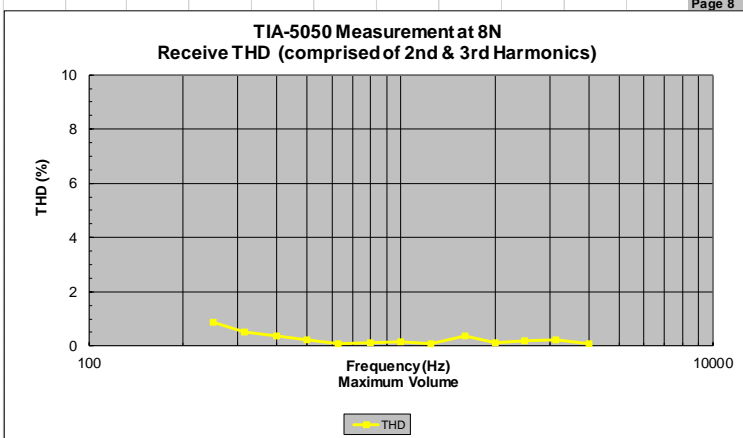
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.2 dB	Absolute Limits	PASS	6/3/2024 10:24
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.52 dB	Absolute Limits	PASS	6/3/2024 10:24
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date
6/3/2024 10:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
24.4 kbps

Test Date
6/3/2024 10:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
24.4 kbps



Test Date
6/3/2024 10:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
24.4 kbps

Test Date
6/3/2024 10:24
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-20 dBPa
Comments:
24.4 kbps

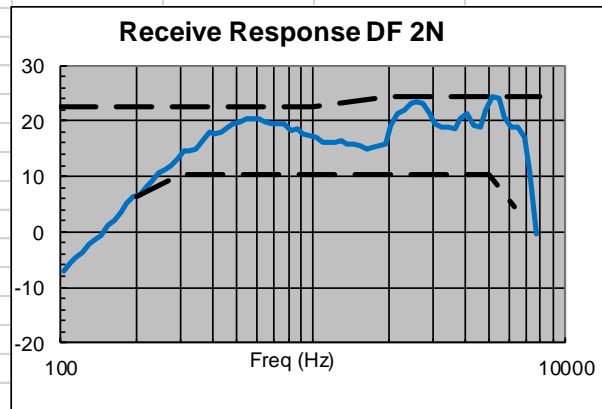
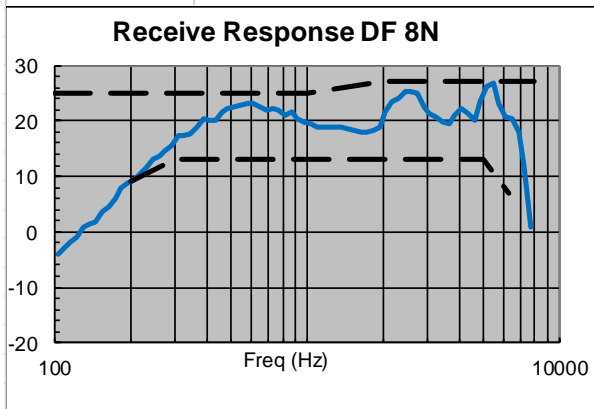
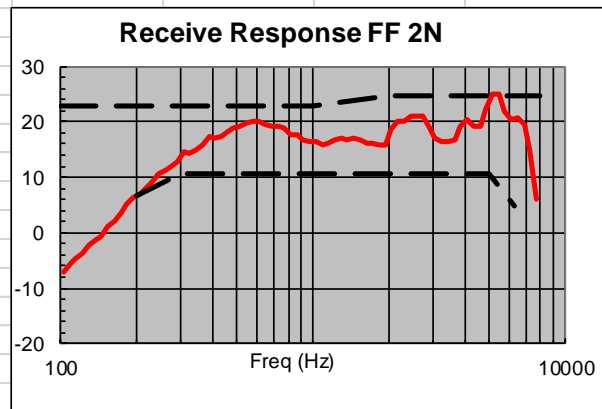
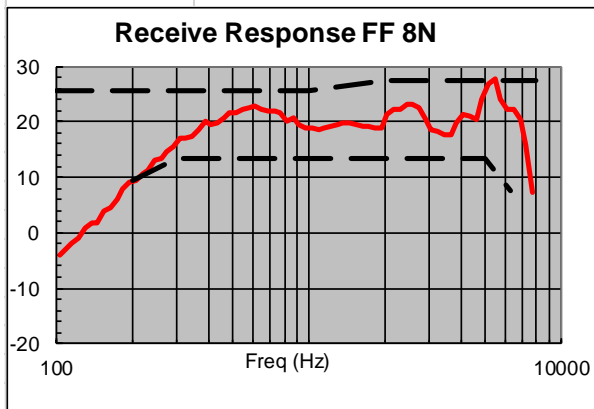
**LTE Band 53 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B53 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.23 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	-0.17 dB	Floating Limits	FAIL	
	Recv resp DF 2N	0.2 dB	Floating Limits	PASS	



Output

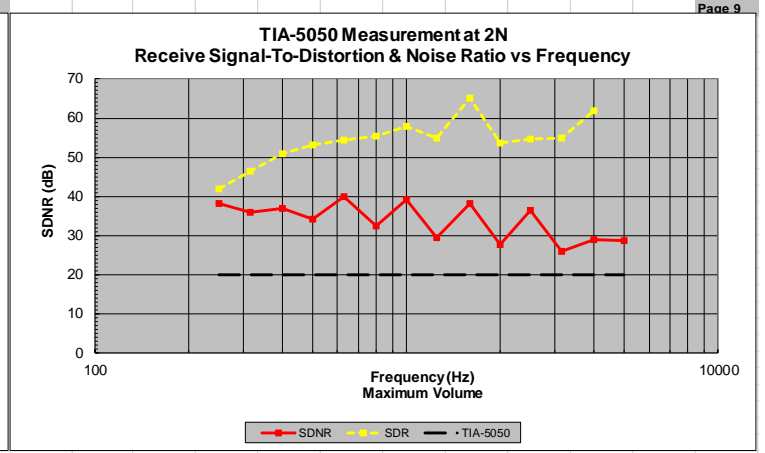
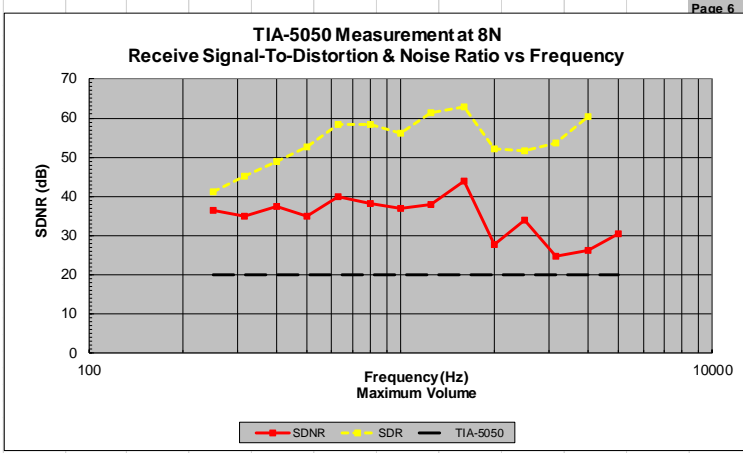
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.22 dB	info only		
	Recv conversational gain 8N	21.22 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.63 dB	info only		
	Recv conversational gain 2N	18.63 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	5.97 dB	Absolute Limits	PASS	

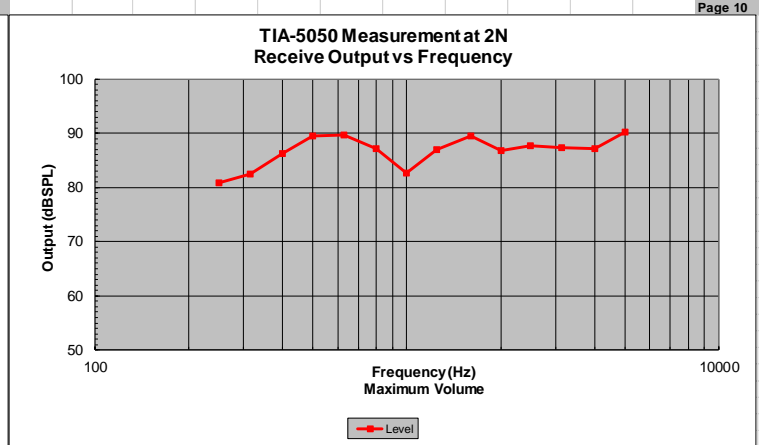
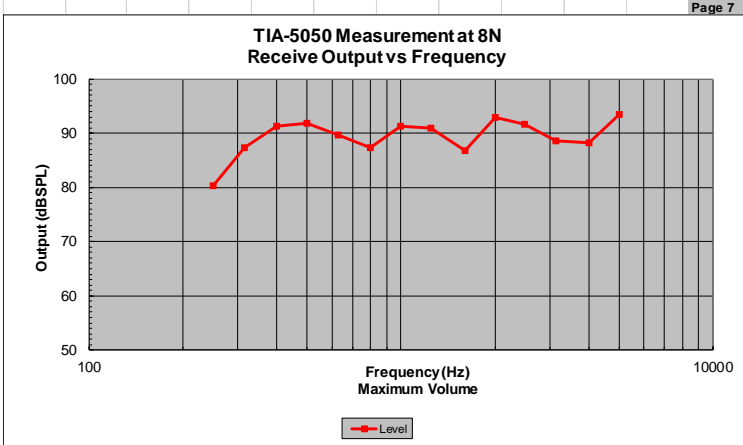
LTE Band 53 PC3 EVS-WB: 24.4 kbps 1,0 RB QPSK 10 MHz

Distortion Report



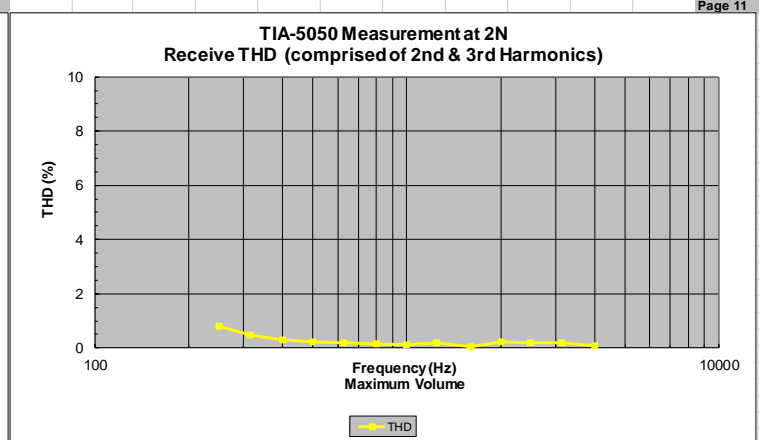
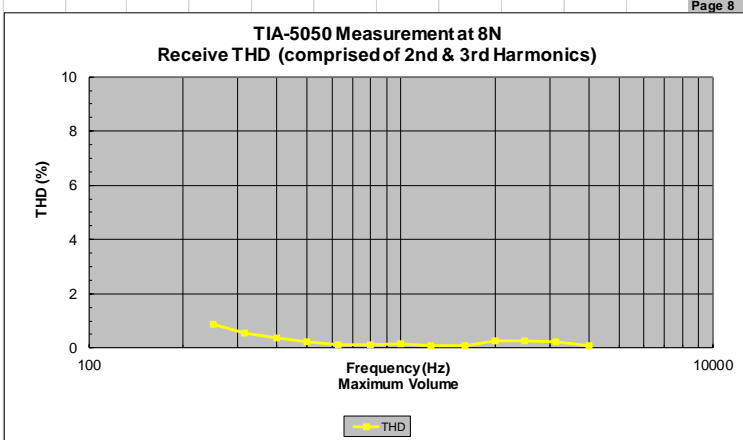
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	4.8 dB	Absolute Limits	PASS	6/3/2024 11:14
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-20 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	5.97 dB	Absolute Limits	PASS	6/3/2024 11:14
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	-20 dBPa	
Comments:	24.4 kbps			



Test Date	
6/3/2024 11:14	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/3/2024 11:14	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps



Test Date	
6/3/2024 11:14	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/3/2024 11:14	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

LTE Band 66 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz

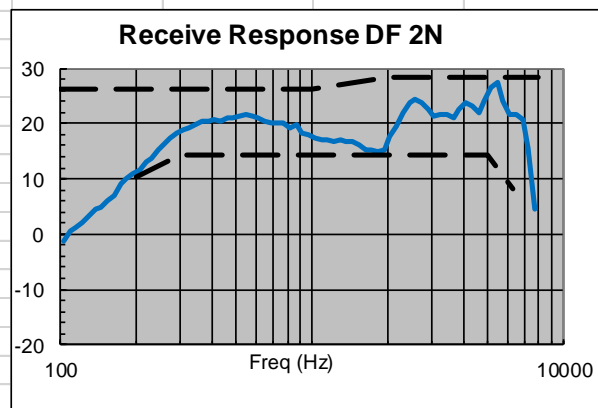
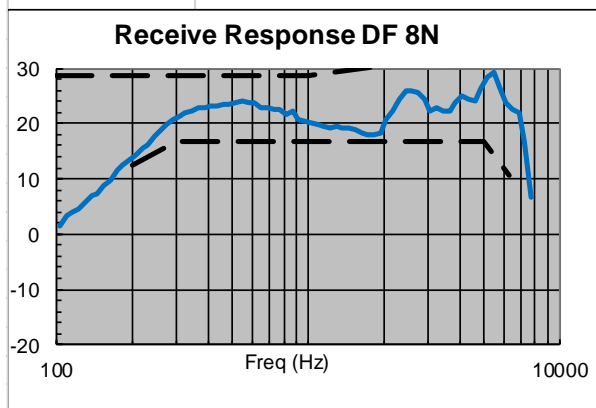
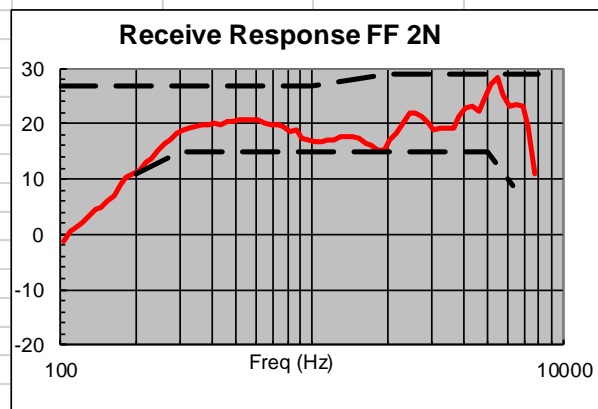
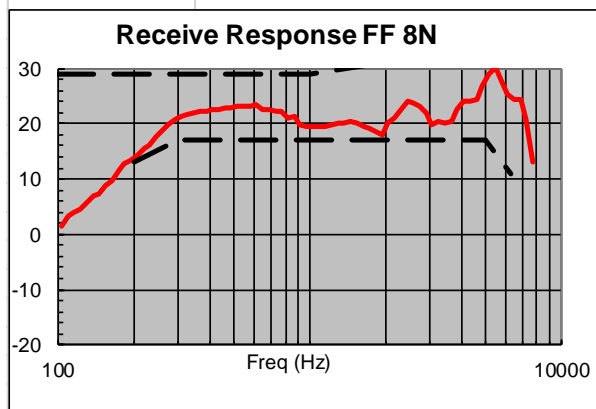
Conversational Gain & Frequency Response Report

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B66 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.78 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.35 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.7 dB	Floating Limits	PASS	



Output

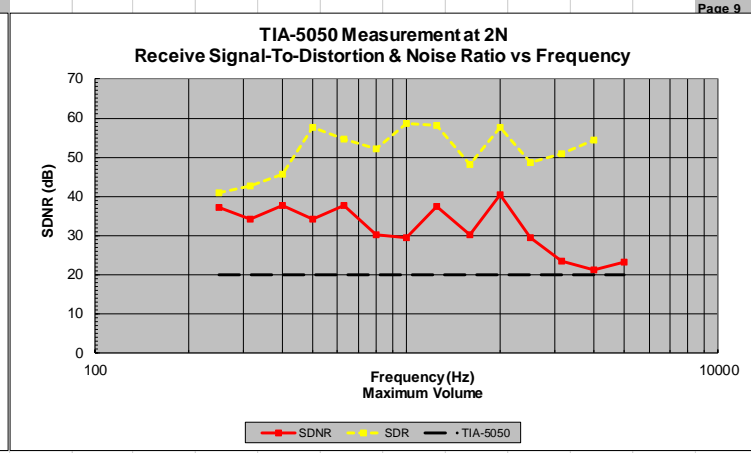
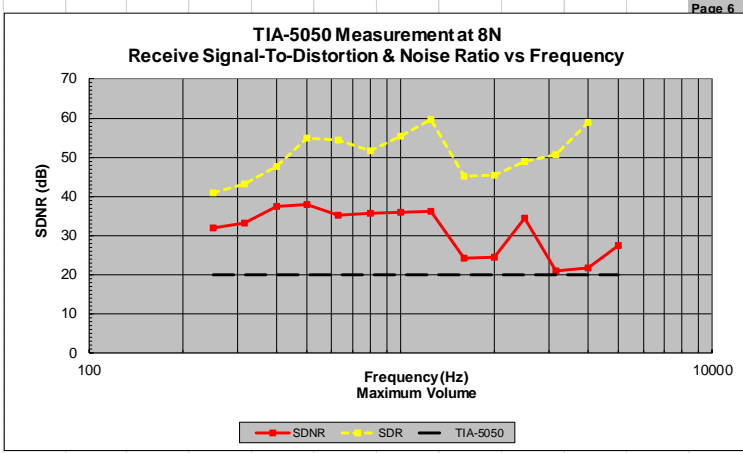
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.9 dB	info only		
	Recv conversational gain 8N	22.9 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.44 dB	info only		
	Recv conversational gain 2N	20.44 dB	6.00	PASS	

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	1.19 dB	Absolute Limits	PASS	

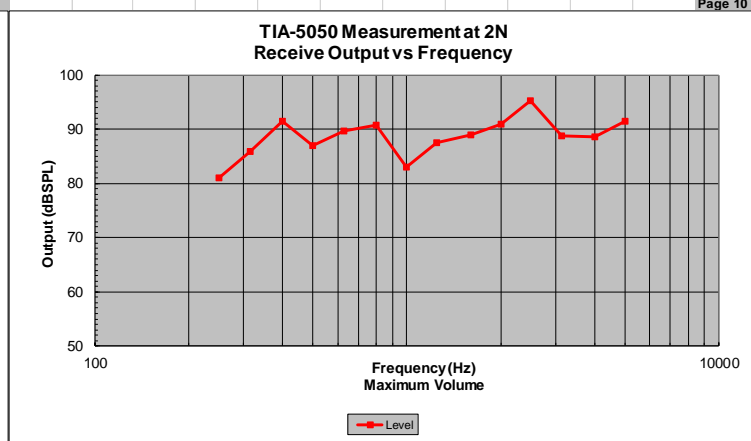
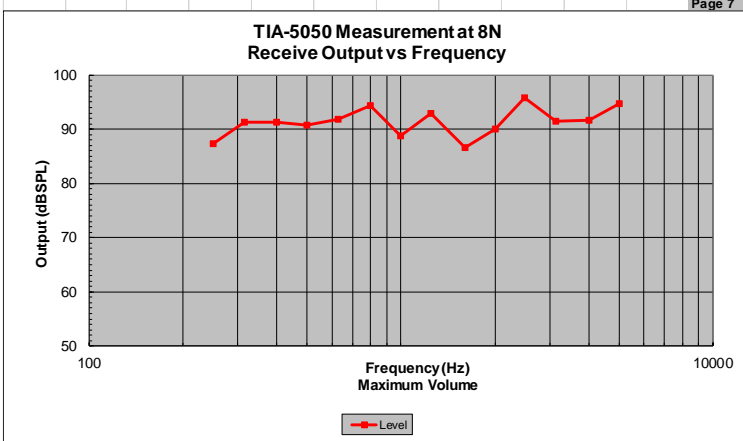
LTE Band 66 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz

Distortion Report



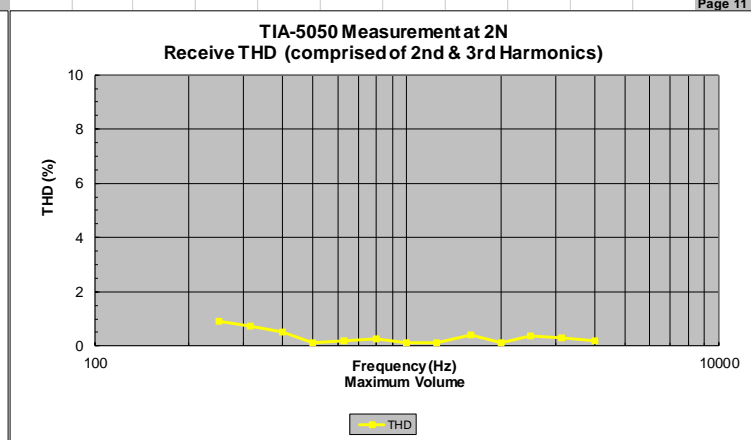
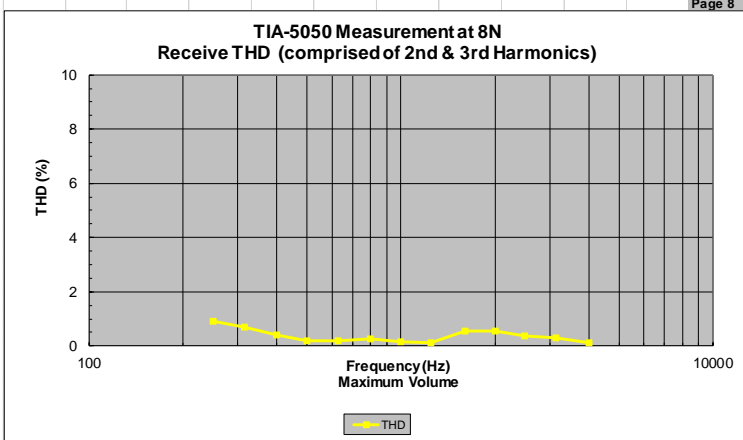
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.9 dB	Absolute Limits	PASS	6/2/2024 8:12
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.19 dB	Absolute Limits	PASS	6/2/2024 8:12
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				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 8:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/2/2024 8:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps



Test Date	
6/2/2024 8:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/2/2024 8:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

LTE Band 71 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz

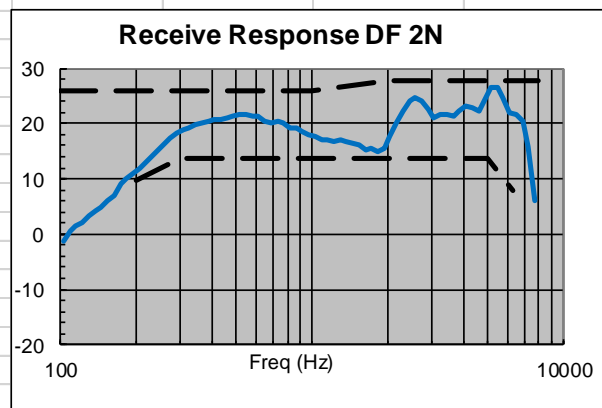
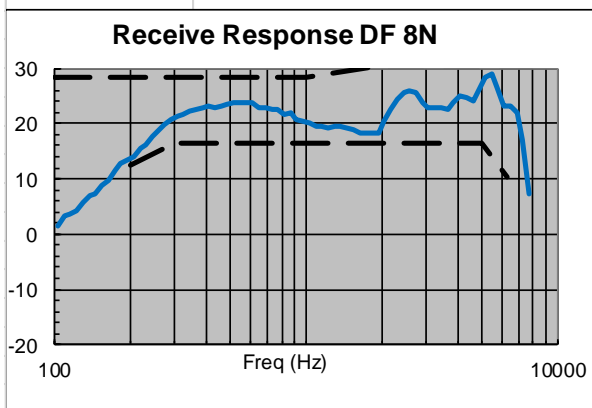
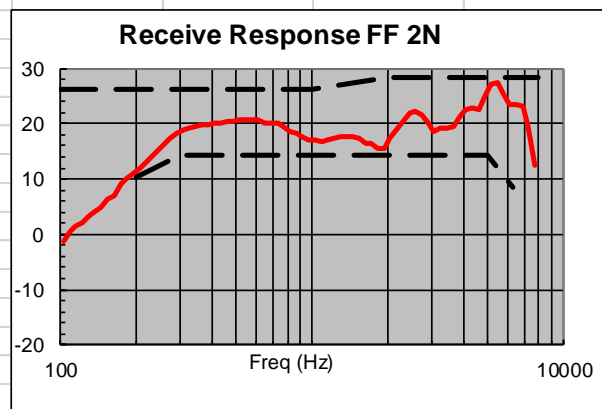
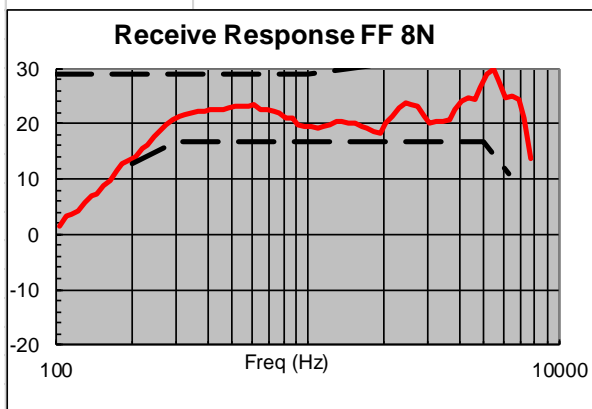
Conversational Gain & Frequency Response Report

TIA-5050 Receive Volume Control Measurements

Device Under Test:	LTE B71 EVS-WB
Bandwidth	Wideband
Test Date:	6/2/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.97 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.02 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



Output

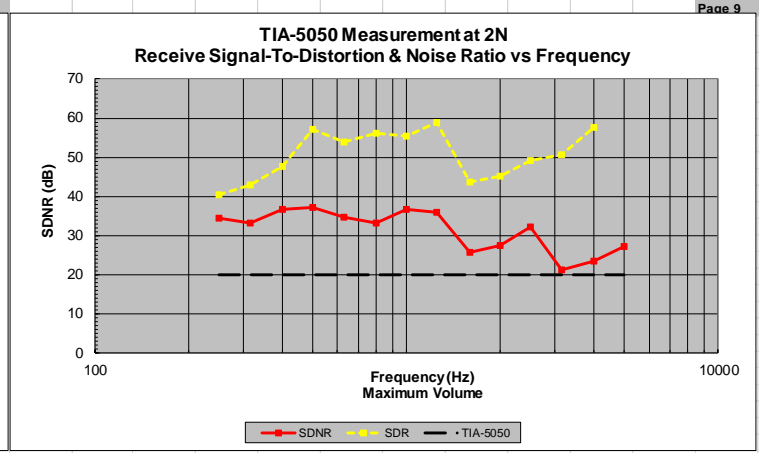
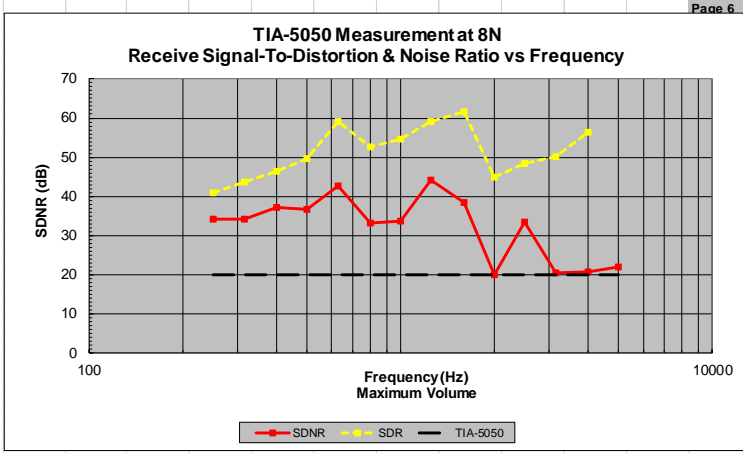
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	92.85 dB	info only		
	Recv conversational gain 8N	22.85 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.52 dB	info only		
	Recv conversational gain 2N	20.52 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.13 dB	Absolute Limits	PASS	

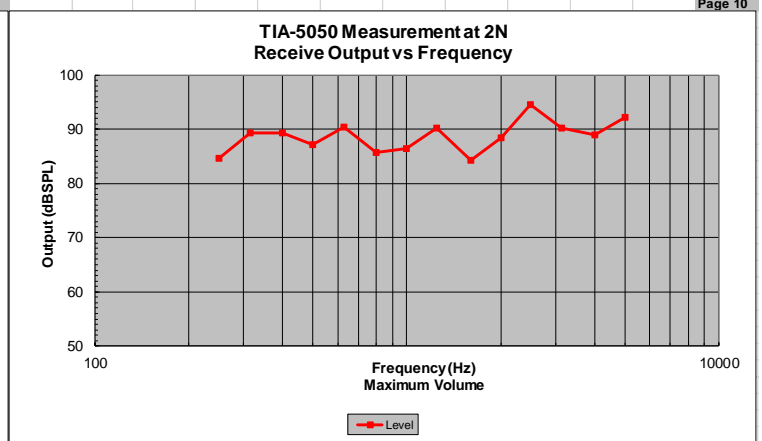
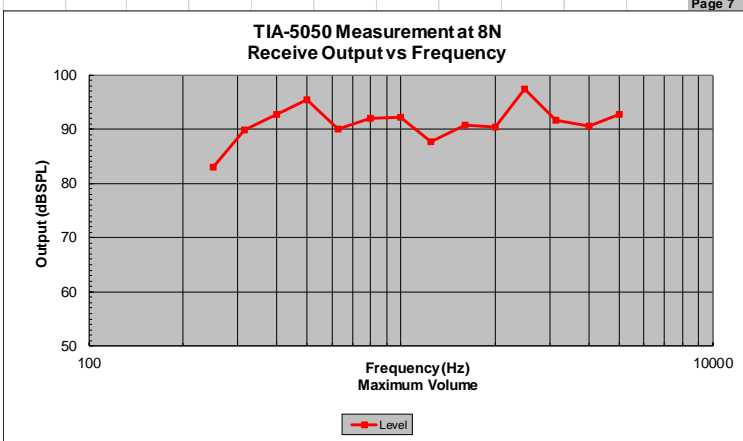
LTE Band 71 EVS-WB: 24.4 kbps 1,0 RB QPSK 20 MHz

Distortion Report



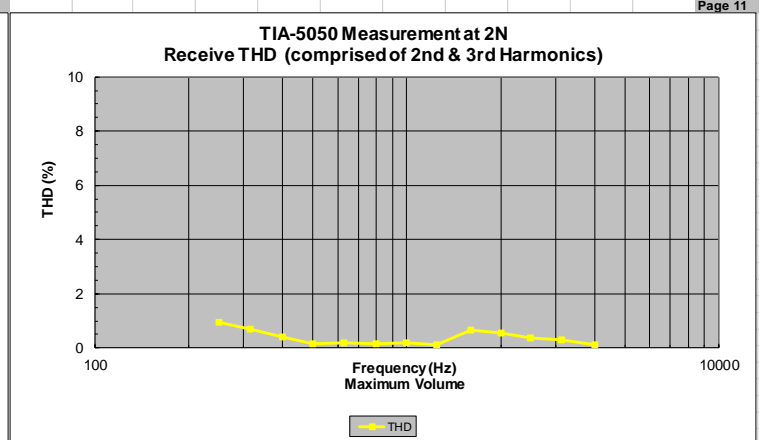
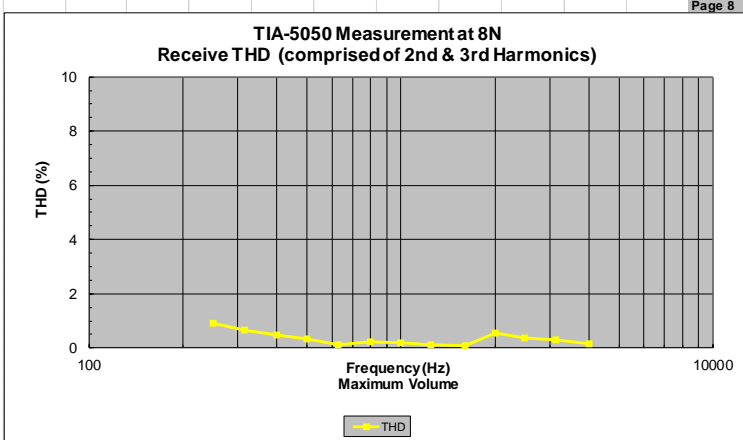
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0 dB	Absolute Limits	PASS	6/2/2024 8:03
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.13 dB	Absolute Limits	PASS	6/2/2024 8:03
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
				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/2/2024 8:03	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 8:03	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps



Test Date	
6/2/2024 8:03	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

Test Date	
6/2/2024 8:03	
Stimulus level	
Sentence conditioning	
Short conditioning	
-20 dBPa	
-20 dBPa	
-20 dBPa	
Comments:	24.4 kbps

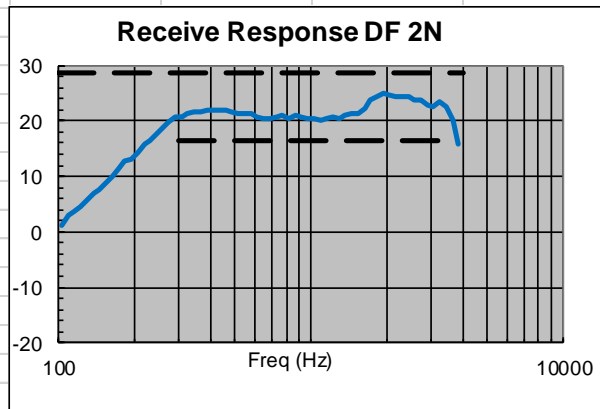
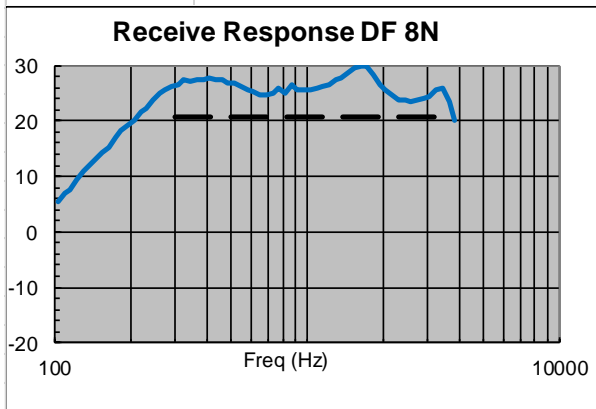
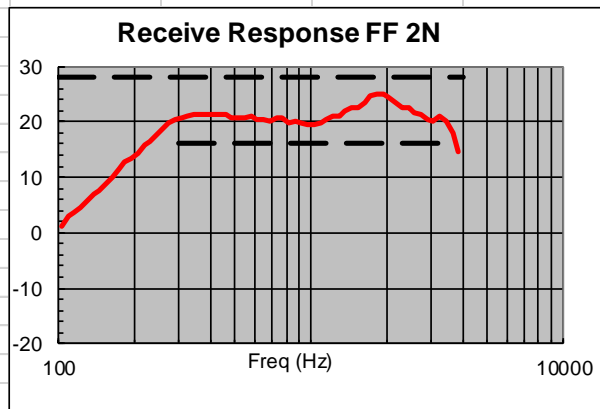
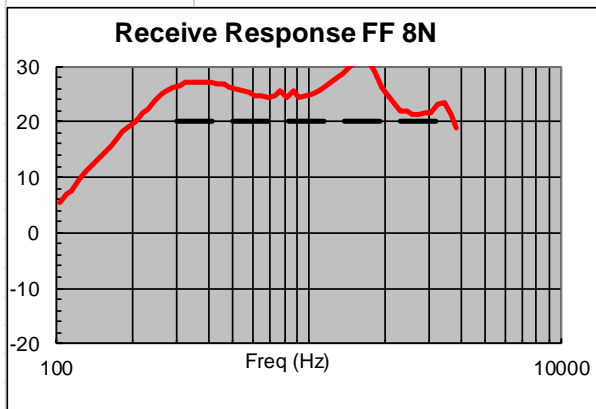
Conversational Gain & Frequency Response Report

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n25 EVS-NB
Bandwidth	Narrowband
Test Date:	6/10/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.15 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.77 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.23 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.49 dB	Floating Limits	PASS	



Output

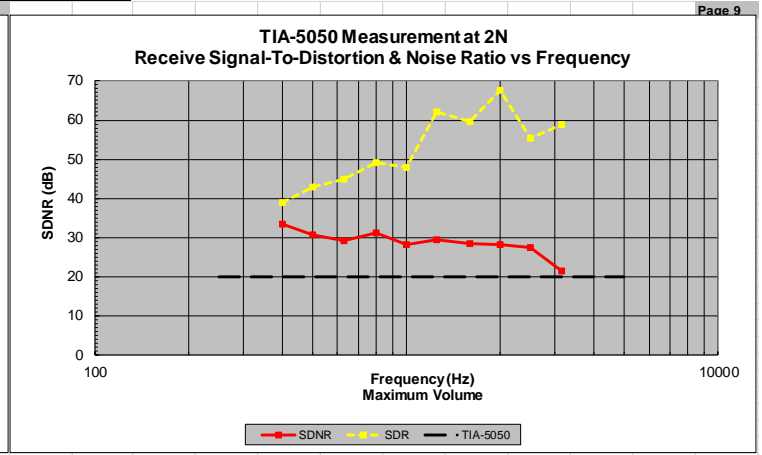
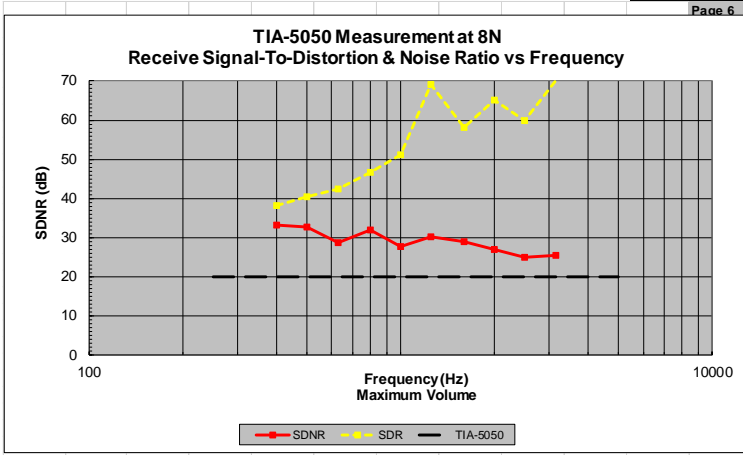
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.12 dB	info only		
	Recv conversational gain 8N	27.12 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.77 dB	info only		
	Recv conversational gain 2N	21.77 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.47 dB	Absolute Limits	PASS	

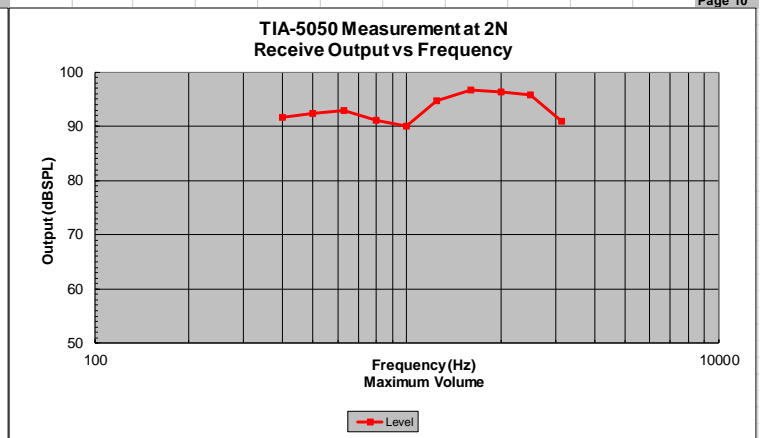
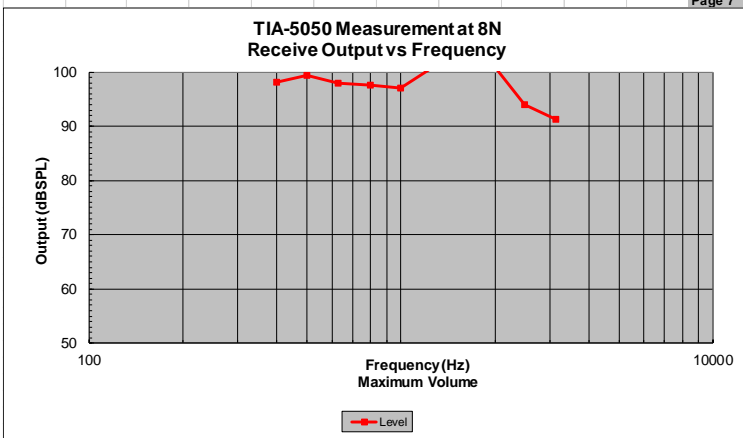
NR n25 EVS-NB: 9.6 kbps

Distortion Report



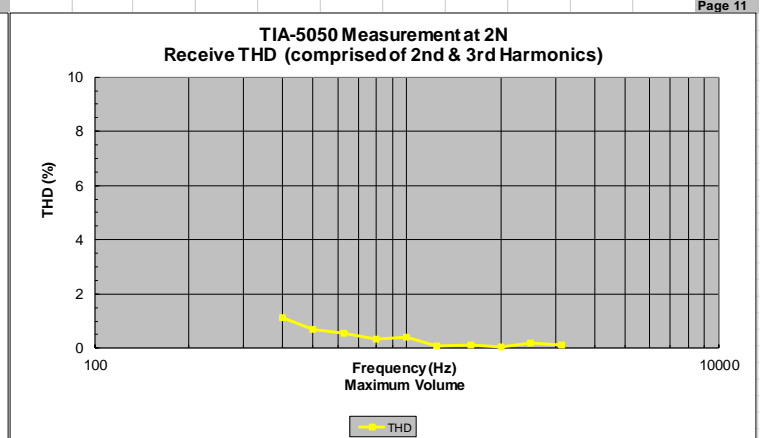
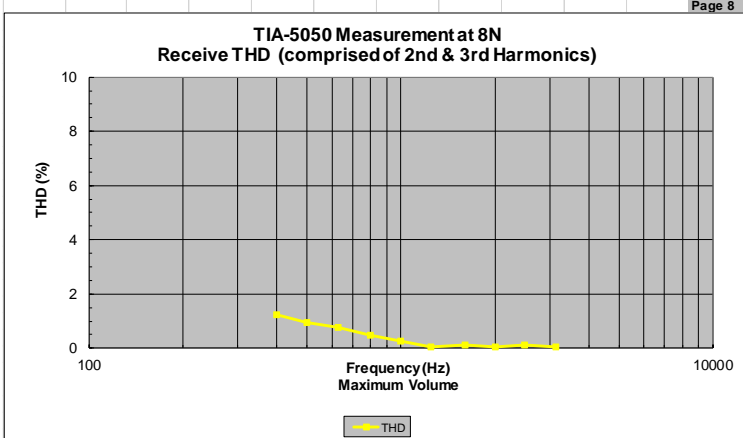
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	5 dB	Absolute Limits	PASS	6/10/2024 13:42
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.47 dB	Absolute Limits	PASS	6/10/2024 13:42
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:	9.6 kbps			



Test Date	
6/10/2024 13:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/10/2024 13:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/10/2024 13:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/10/2024 13:42	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

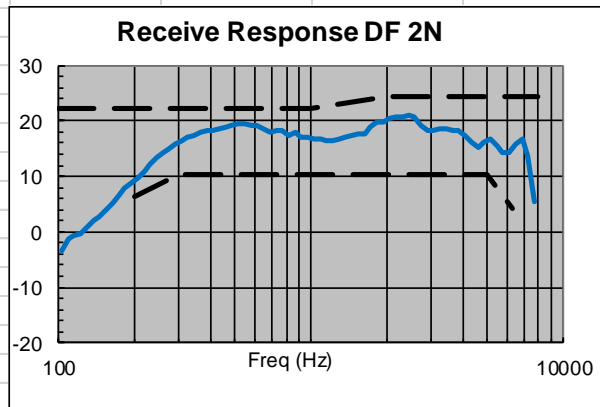
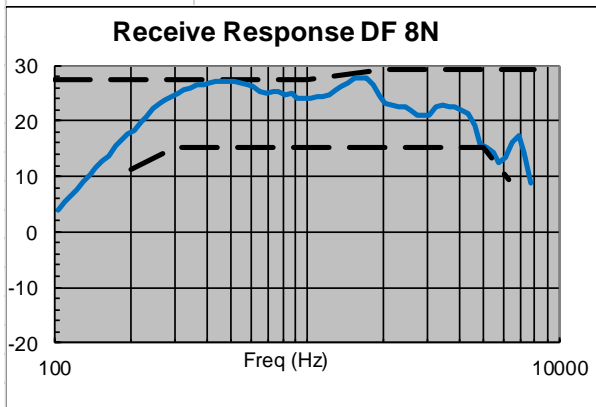
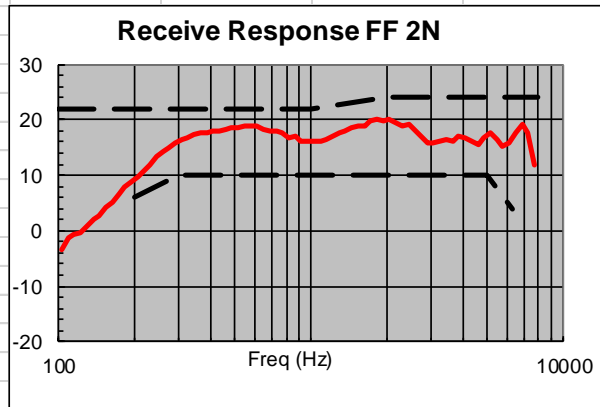
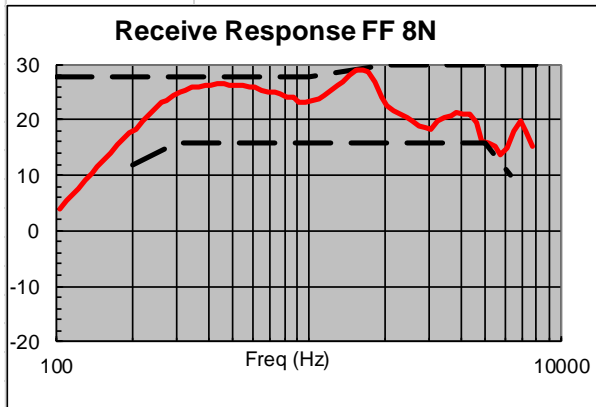
**NR n25 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n25 EVS-WB
Bandwidth	Wideband
Test Date:	6/10/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.25 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.9 dB	Floating Limits	PASS	



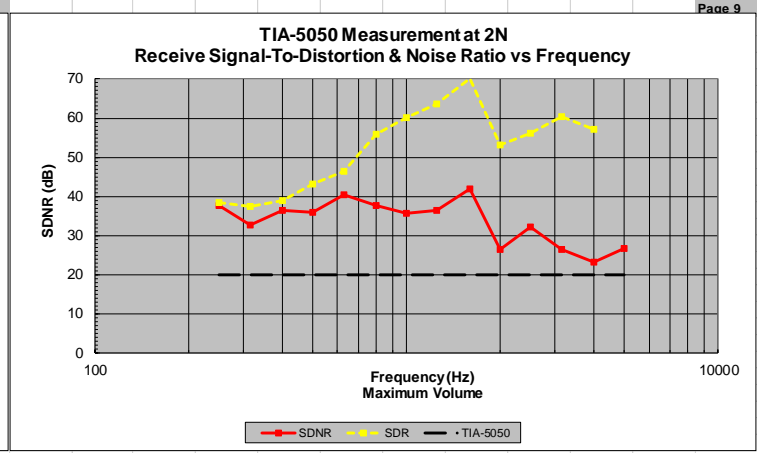
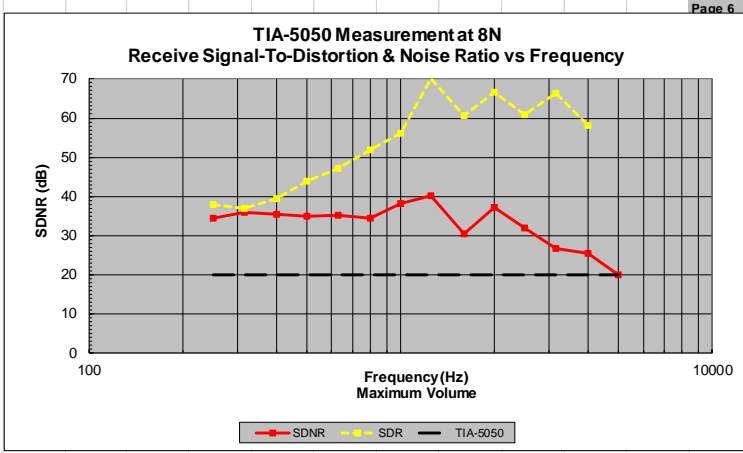
Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.44 dB	info only		
	Recv conversational gain 8N	26.44 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.61 dB	info only		
	Recv conversational gain 2N	18.61 dB	6.00	PASS	

Distortion

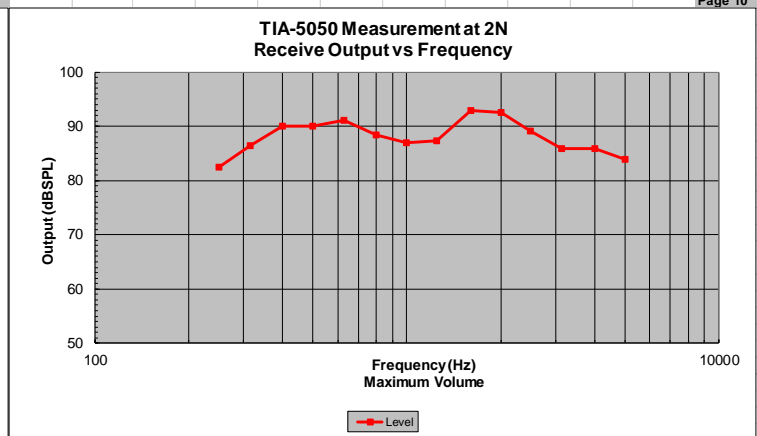
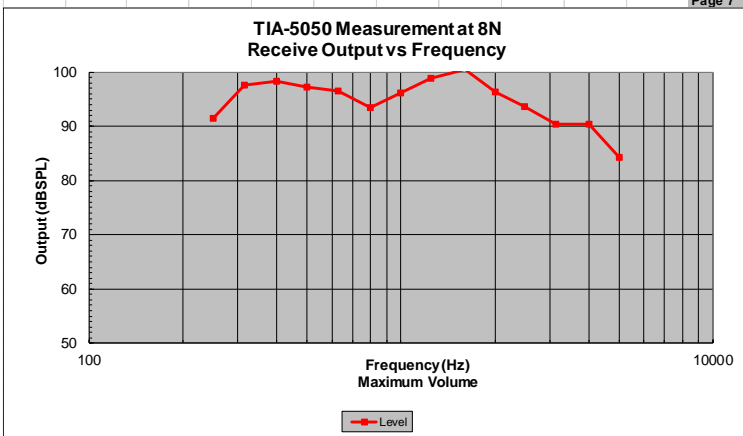
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.33 dB	Absolute Limits	PASS	

NR n25 EVS-WB: 24.4 kbps Distortion Report



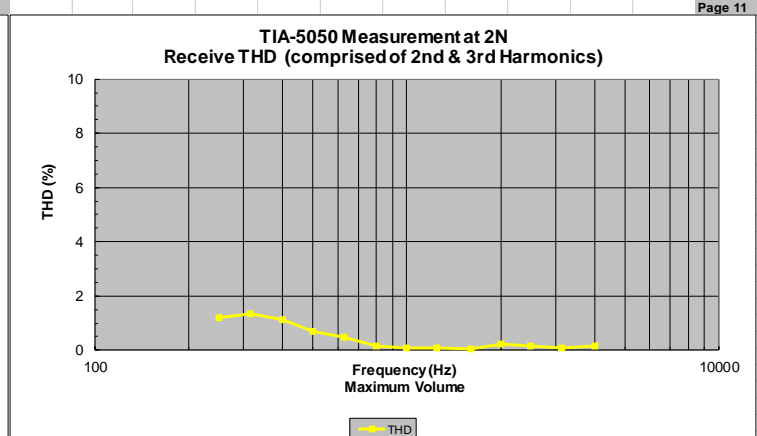
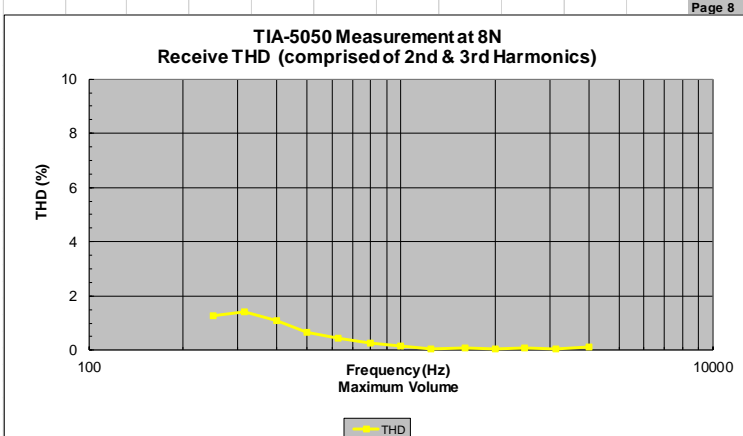
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/10/2024 14:26
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.33 dB	Absolute Limits	PASS	6/10/2024 14:26
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	
6/10/2024 14:26	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/10/2024 14:26	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/10/2024 14:26	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/10/2024 14:26	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

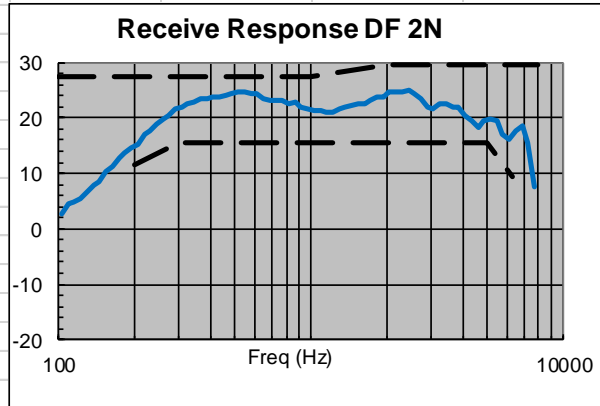
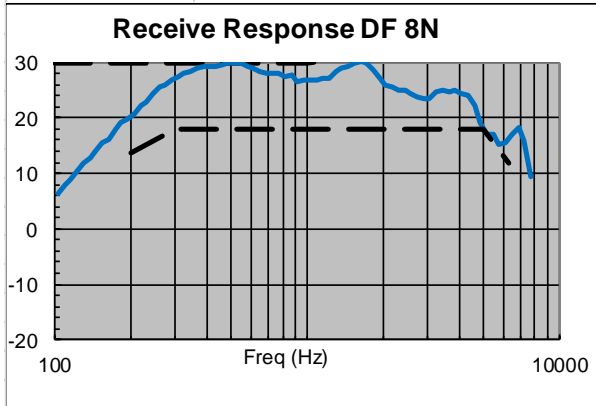
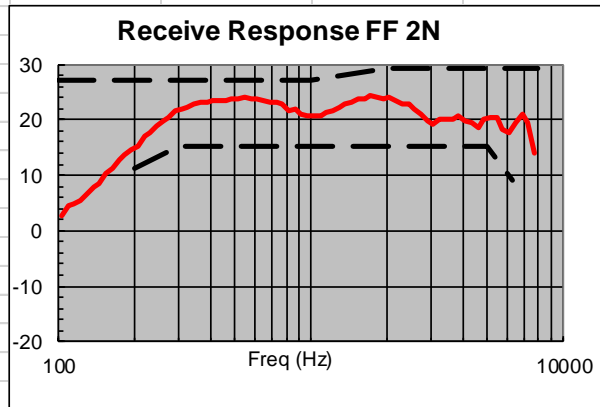
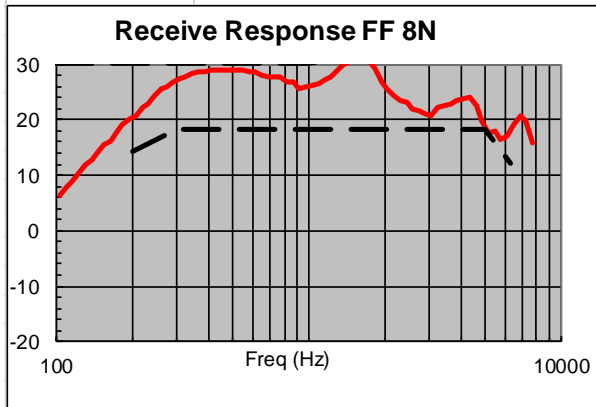
**NR n7 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n7 EVS-WB
Bandwidth	Wideband
Test Date:	6/6/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.29 dB	Floating Limits	PASS	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.3 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.8 dB	Floating Limits	PASS	



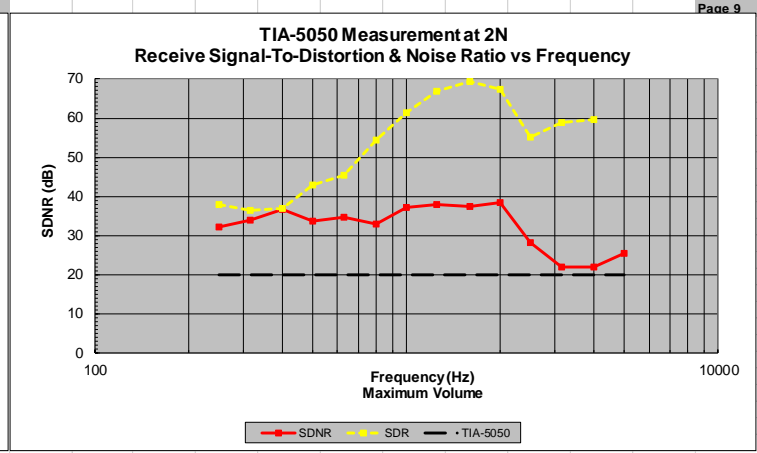
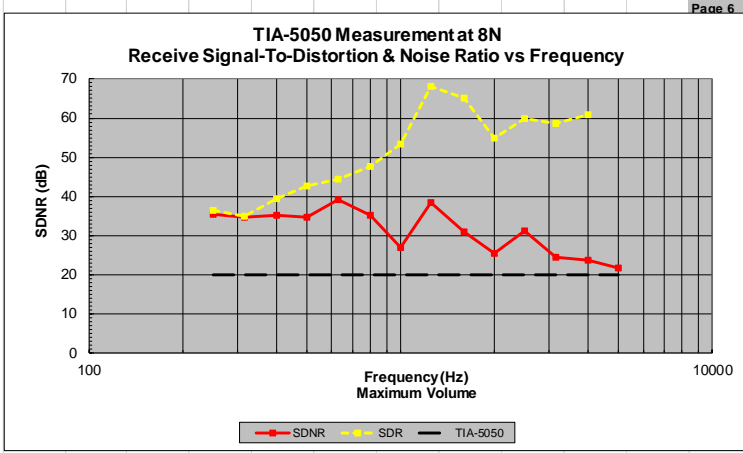
Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.04 dB	info only		
	Recv conversational gain 8N	29.04 dB	18.00	PASS	
	Recv output level dB SPL 2N	93.73 dB	info only		
	Recv conversational gain 2N	23.73 dB	6.00	PASS	

Distortion

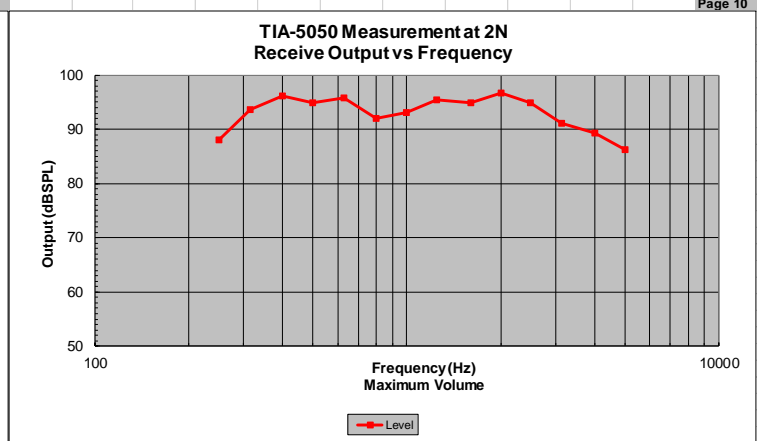
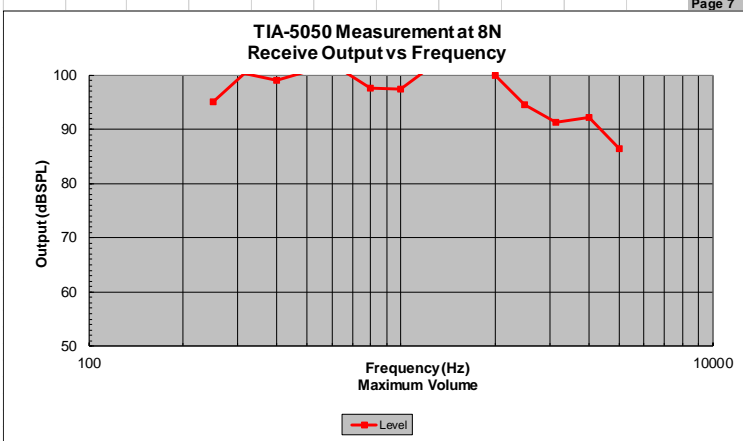
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.93 dB	Absolute Limits	PASS	

NR n7 EVS-WB: 24.4 kbps Distortion Report



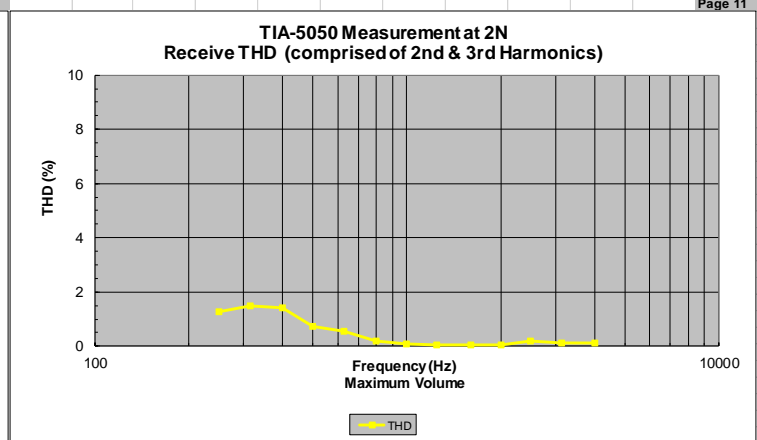
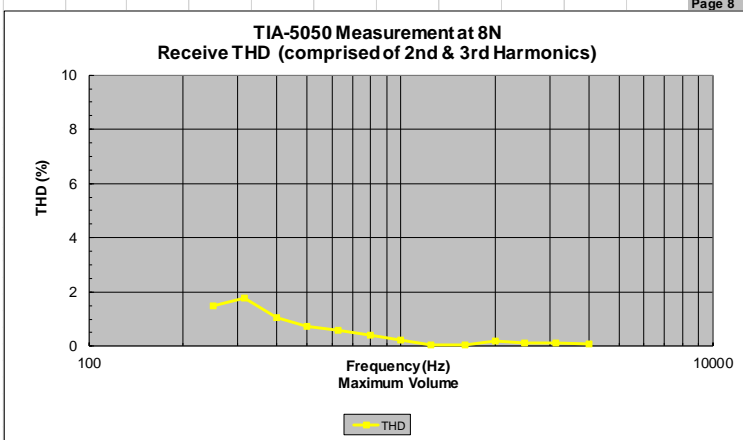
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	6/6/2024 13:29
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.93 dB	Absolute Limits	PASS	6/6/2024 13:29
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		
6/6/2024 13:29		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/6/2024 13:29		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	



Test Date		
6/6/2024 13:29		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

Test Date		
6/6/2024 13:29		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	24.4 kbps	

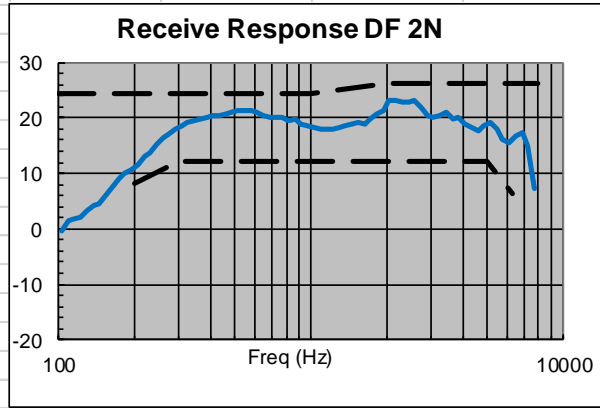
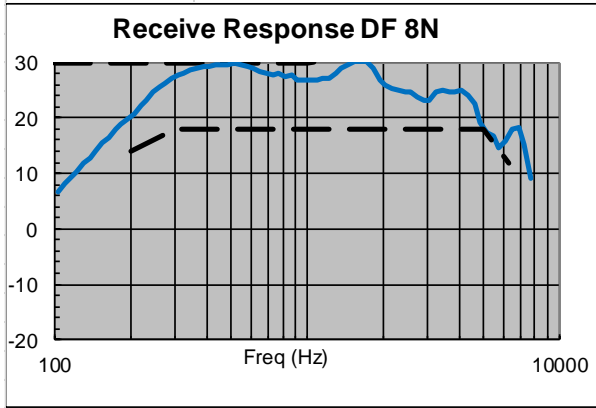
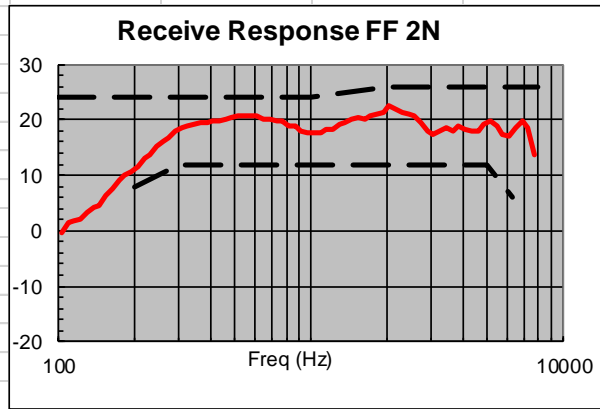
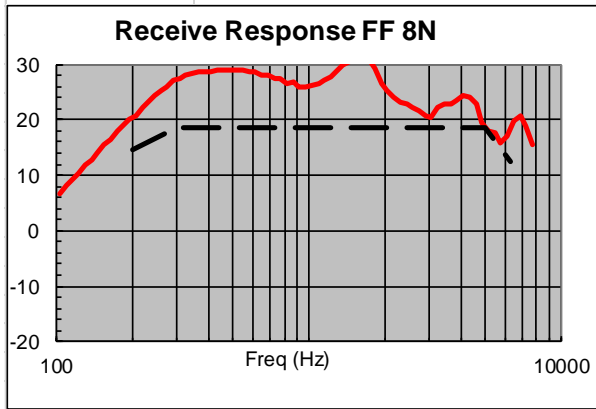
**NR n12 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n12 EVS-WB
Bandwidth	Wideband
Test Date:	6/6/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.34 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.21 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.9 dB	Floating Limits	PASS	



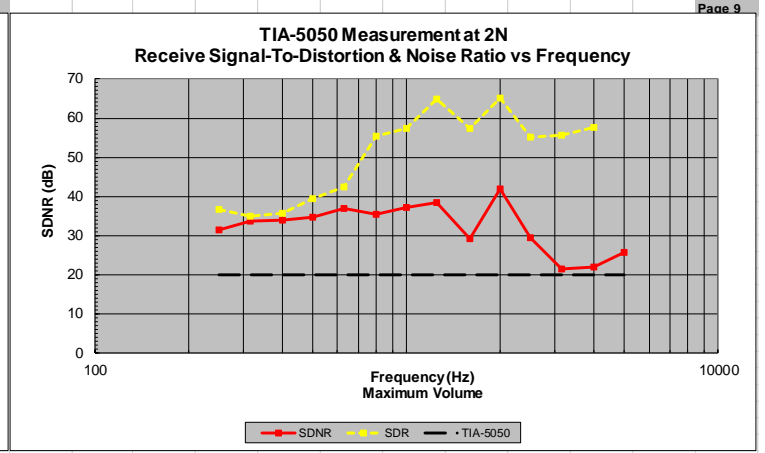
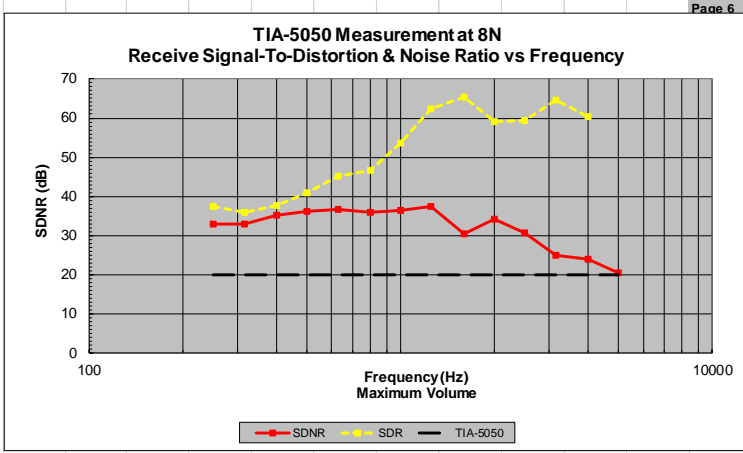
Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.05 dB	info only		
	Recv conversational gain 8N	29.05 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.49 dB	info only		
	Recv conversational gain 2N	20.49 dB	6.00	PASS	

Distortion

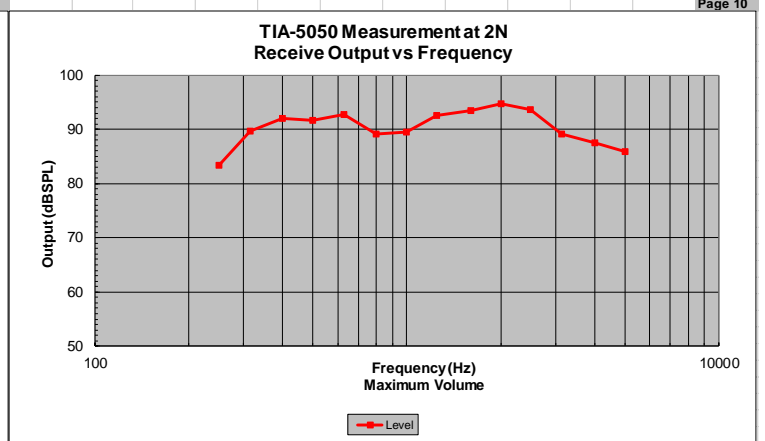
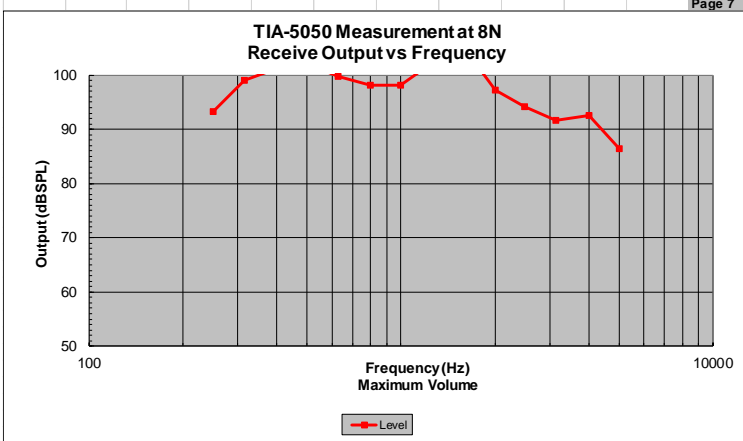
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.57 dB	Absolute Limits	PASS	

NR n12 EVS-WB: 24.4 kbps Distortion Report



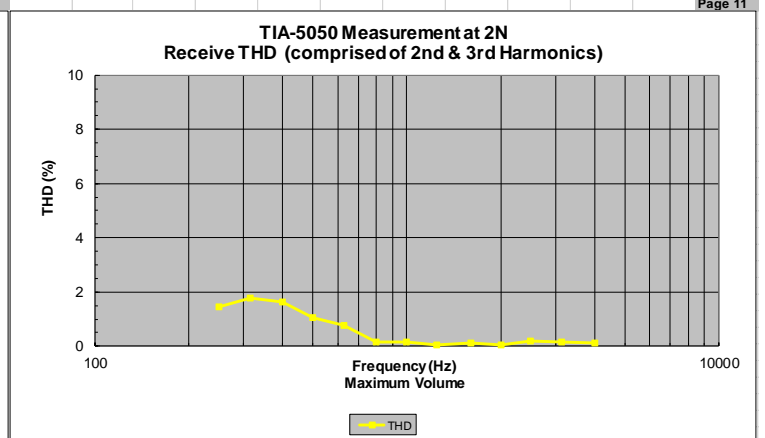
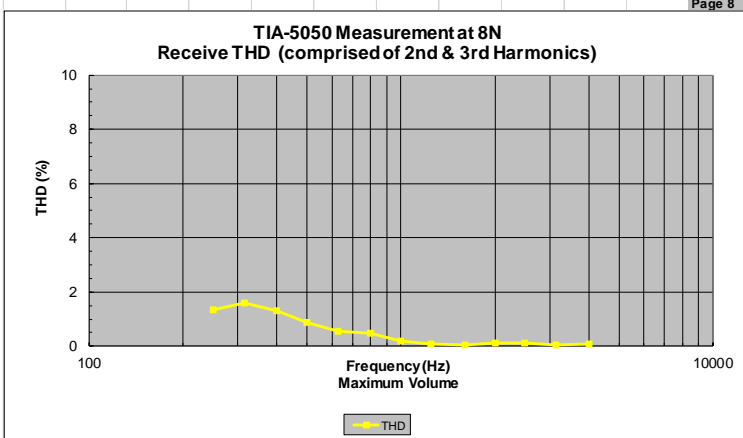
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	6/6/2024 13:56
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.57 dB	Absolute Limits	PASS	6/6/2024 13:56
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
6/6/2024 13:56
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/6/2024 13:56
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps



Test Date
6/6/2024 13:56
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/6/2024 13:56
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

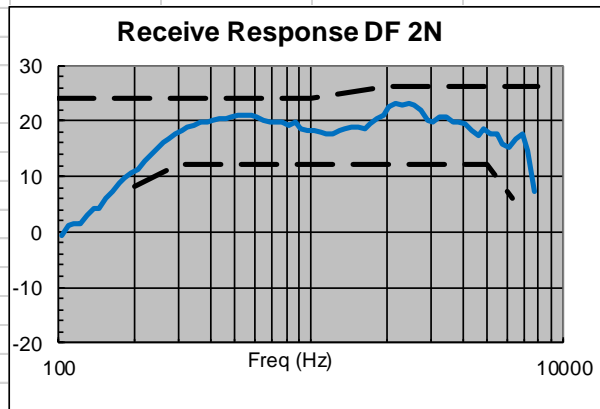
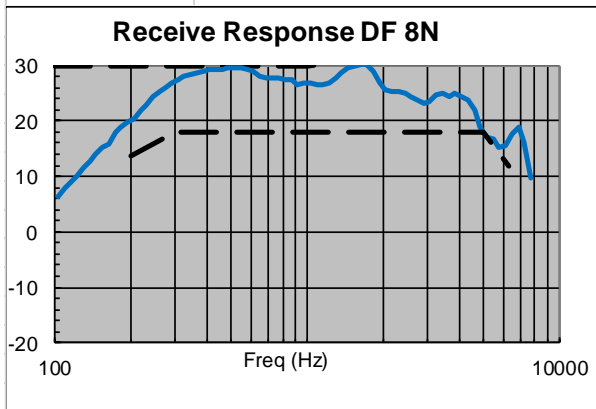
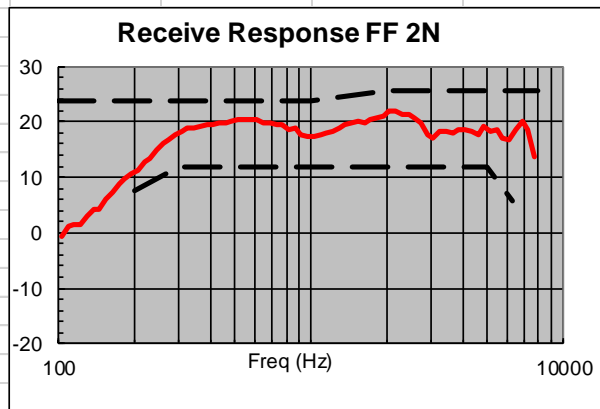
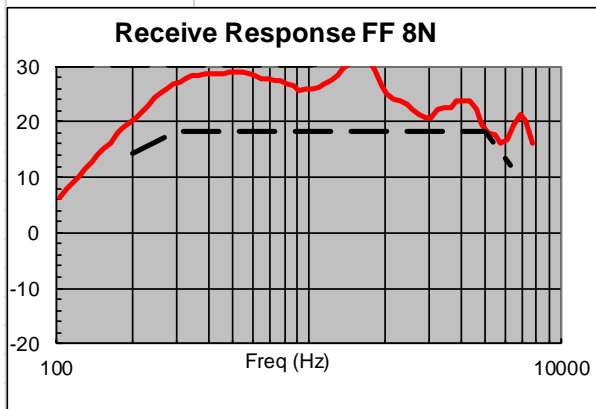
**NR n41 PC3 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n41 PC3 EVS-WB
Bandwidth	Wideband
Test Date:	6/6/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.36 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.25 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.8 dB	Floating Limits	PASS	



Output

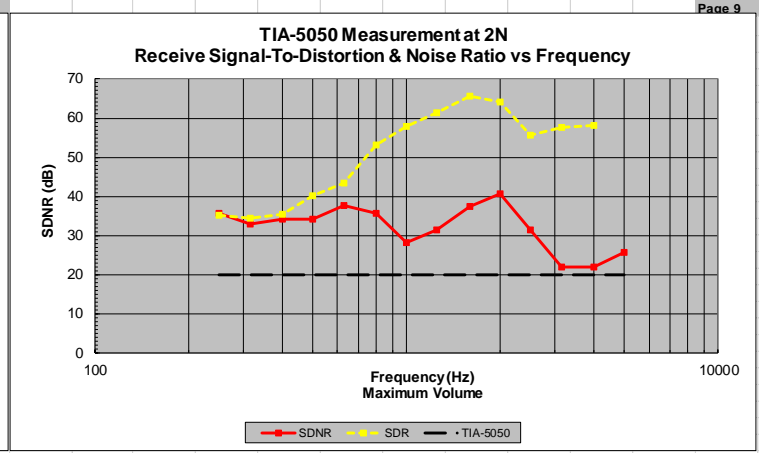
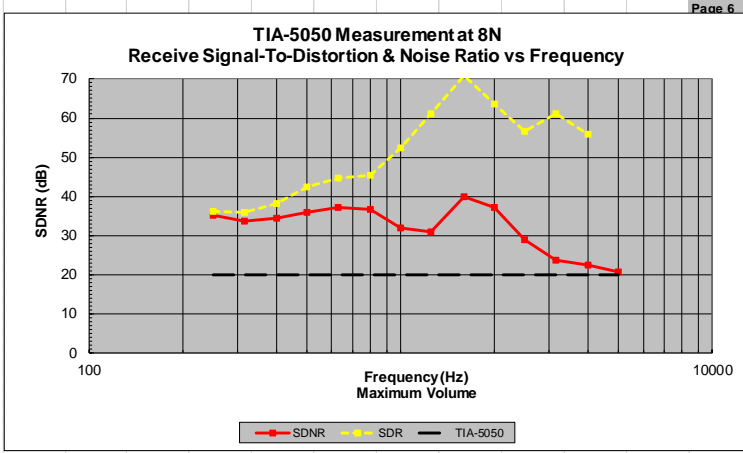
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	98.91 dB	info only		
	Recv conversational gain 8N	28.91 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.25 dB	info only		
	Recv conversational gain 2N	20.25 dB	6.00	PASS	

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	1.95 dB	Absolute Limits	PASS	

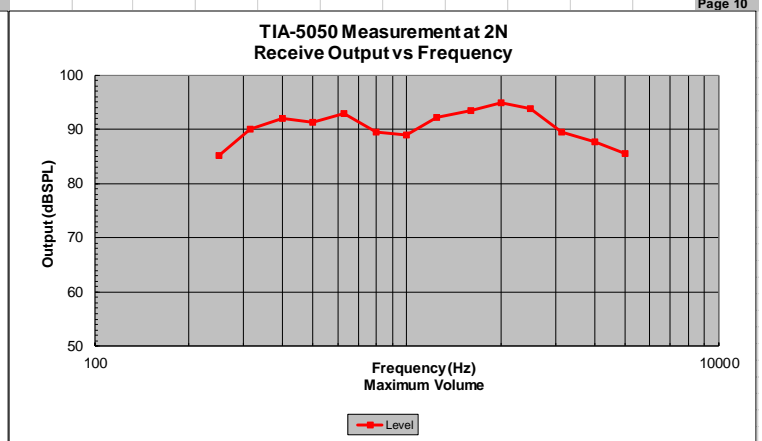
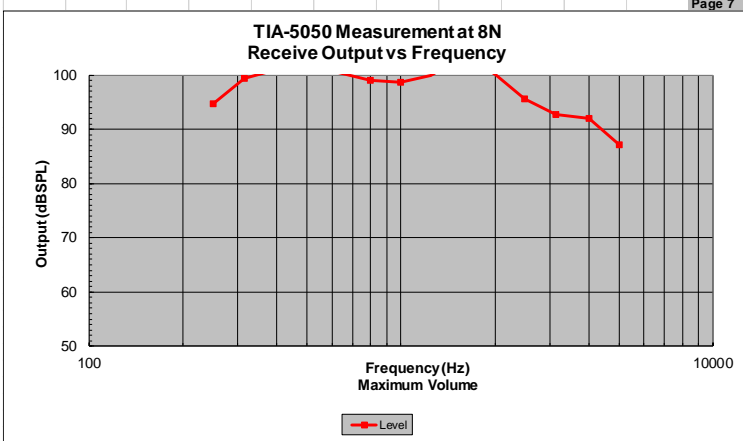
NR n41 PC3 EVS-WB: 24.4 kbps

Distortion Report



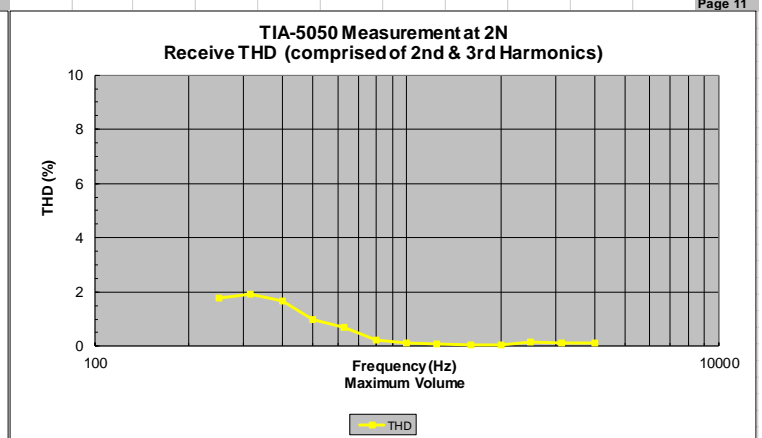
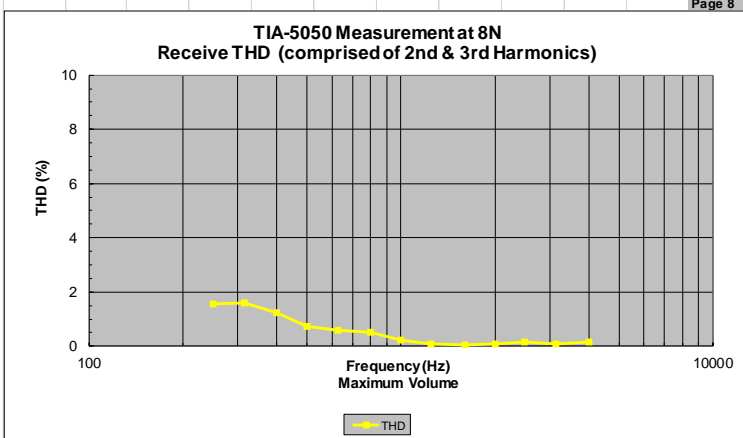
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	6/6/2024 15:47
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.95 dB	Absolute Limits	PASS	6/6/2024 15:47
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
6/6/2024 15:47
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/6/2024 15:47
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps



Test Date
6/6/2024 15:47
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/6/2024 15:47
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

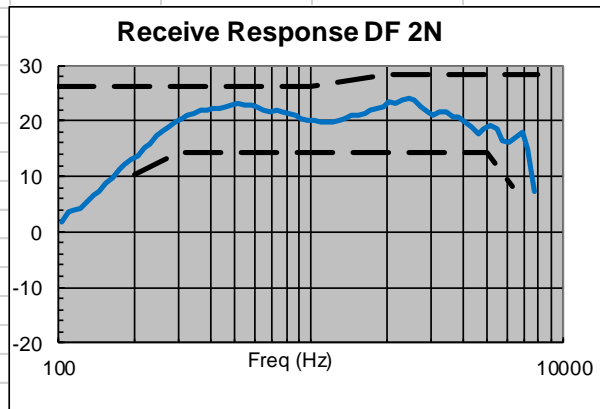
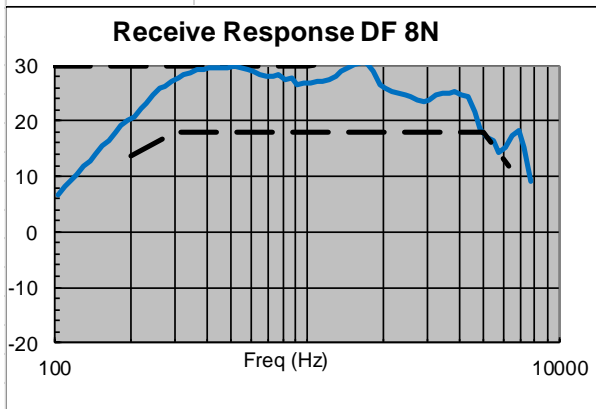
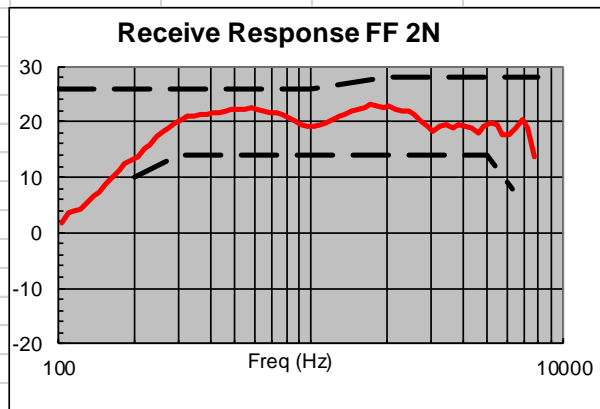
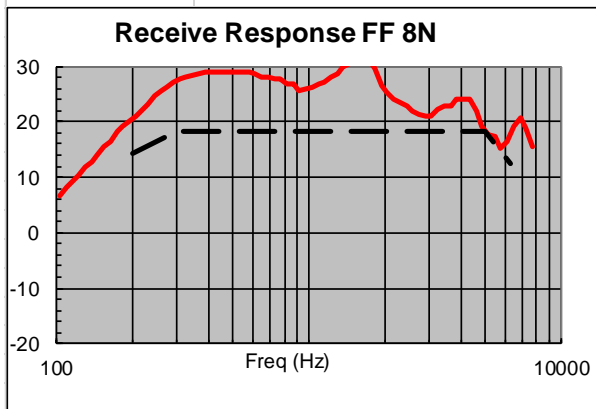
**NR n41 PC2 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n41 PC2 EVS-WB
Bandwidth	Wideband
Test Date:	6/6/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.08 dB	Floating Limits	PASS	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.5 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

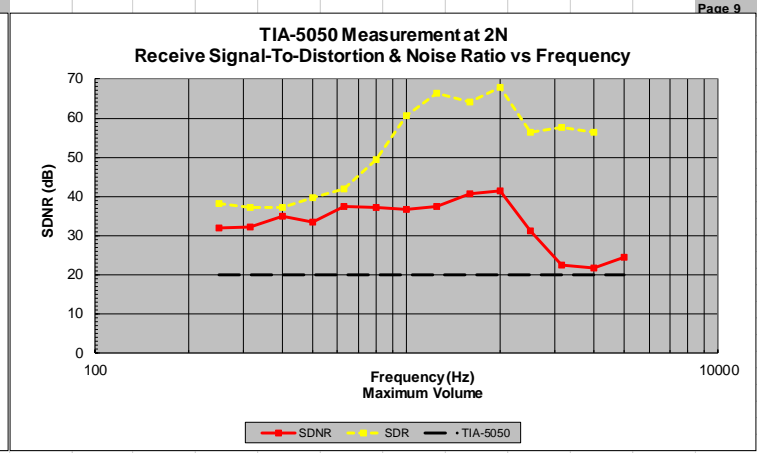
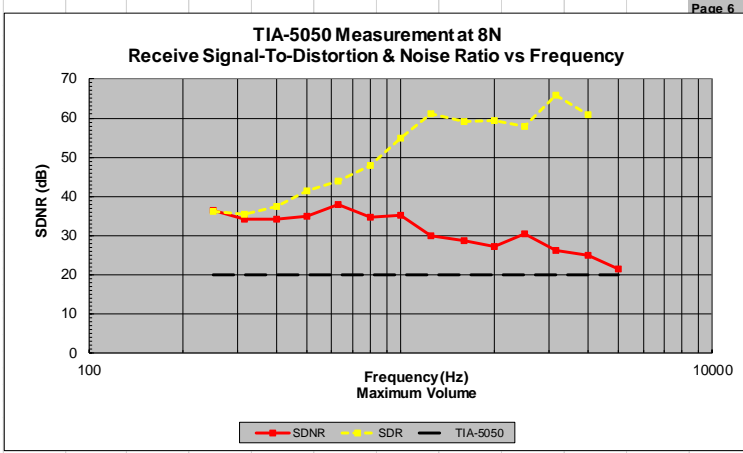
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	99.15 dB	info only		
	Recv conversational gain 8N	29.15 dB	18.00	PASS	
	Recv output level dB SPL 2N	92.2 dB	info only		
	Recv conversational gain 2N	22.2 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.83 dB	Absolute Limits	PASS	

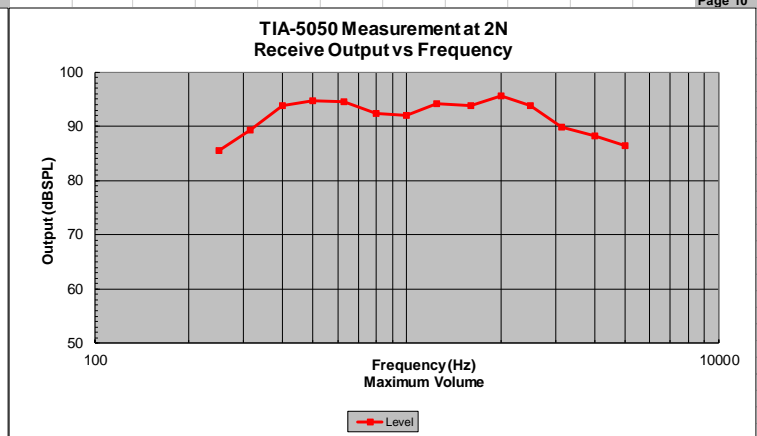
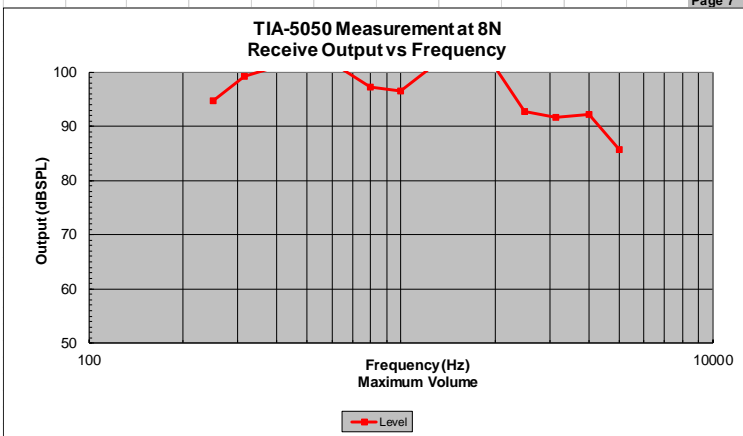
NR n41 PC2 EVS-WB: 24.4 kbps

Distortion Report



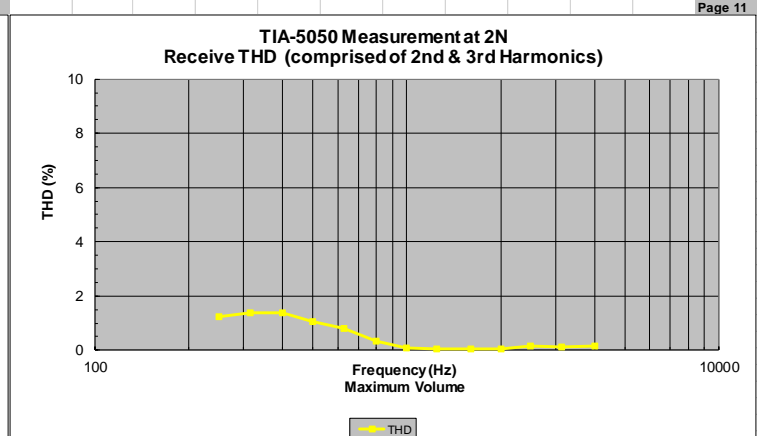
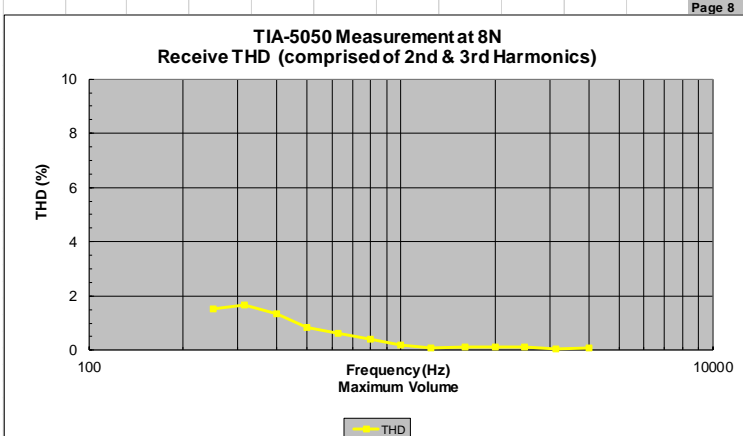
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	6/6/2024 16:24
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.83 dB	Absolute Limits	PASS	6/6/2024 16:24
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	
6/6/2024 16:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/6/2024 16:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
6/6/2024 16:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
6/6/2024 16:24	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

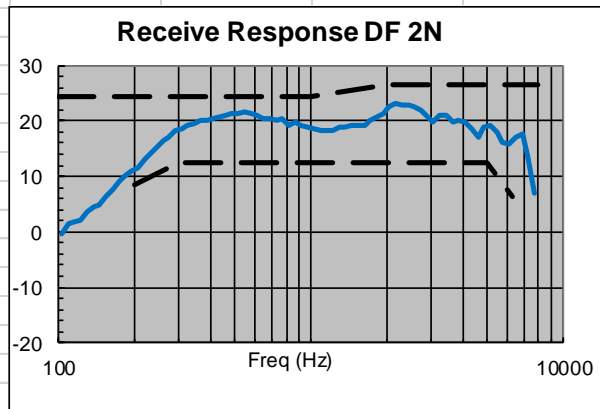
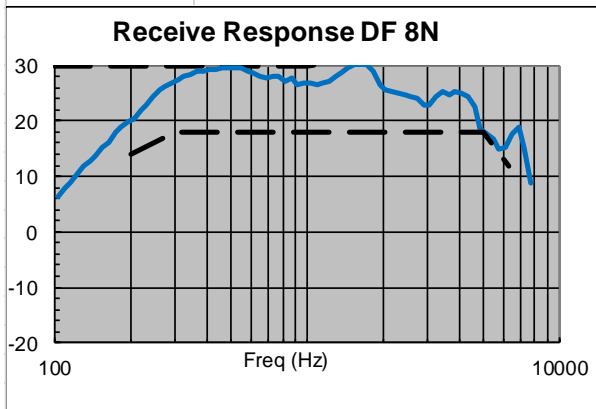
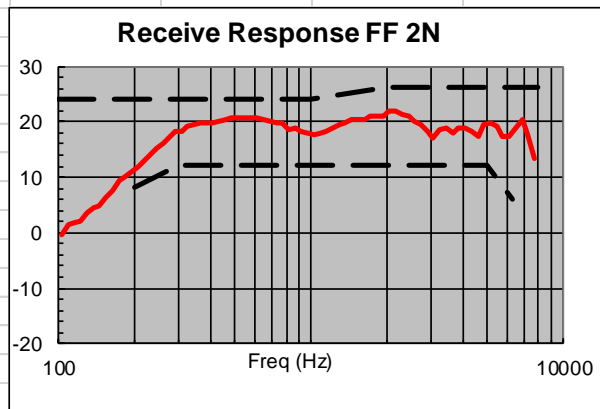
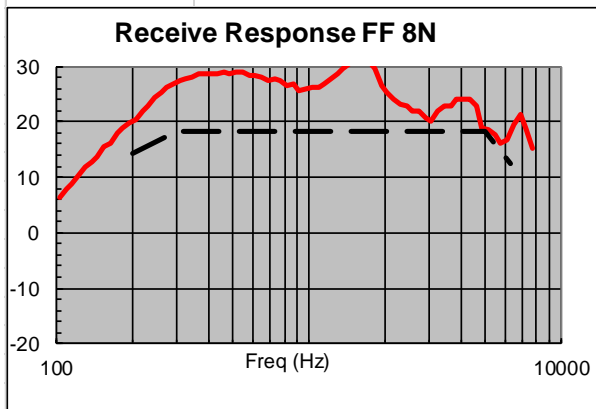
**NR n41 PC1.5 EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n41 PC1.5 EVS-WB
Bandwidth:	Wideband
Test Date:	6/6/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.34 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.29 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.9 dB	Floating Limits	PASS	



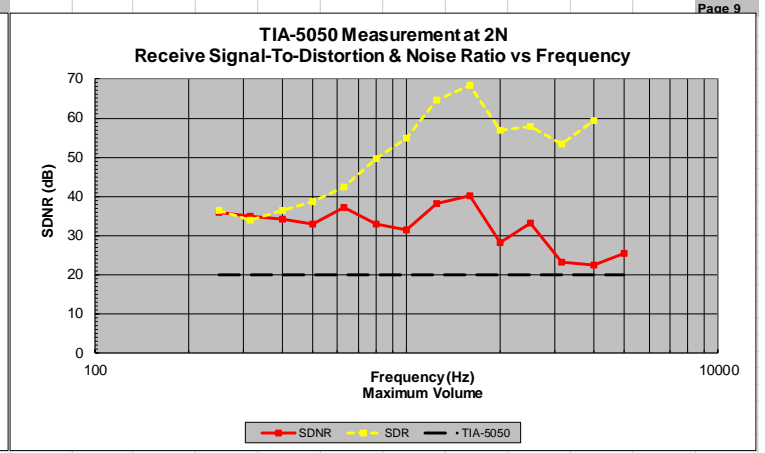
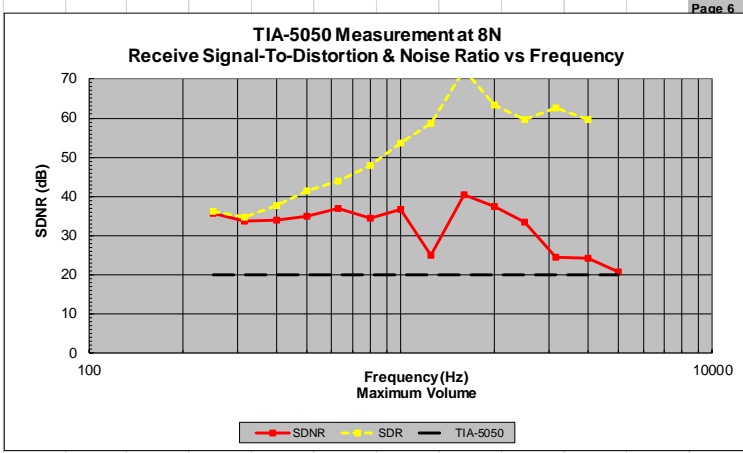
Output

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	98.93 dB	info only		
	Recv conversational gain 8N	28.93 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.63 dB	info only		
	Recv conversational gain 2N	20.63 dB	6.00	PASS	

Distortion

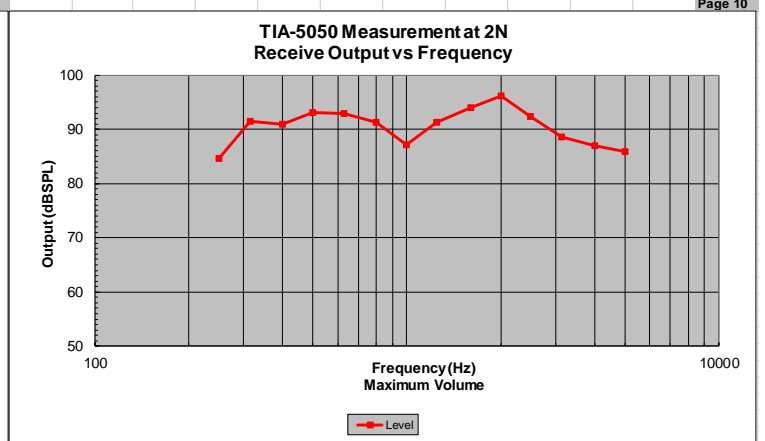
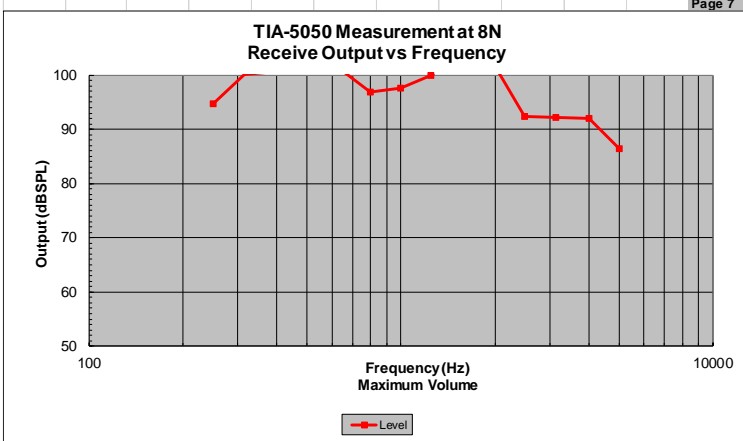
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.51 dB	Absolute Limits	PASS	

Distortion Report



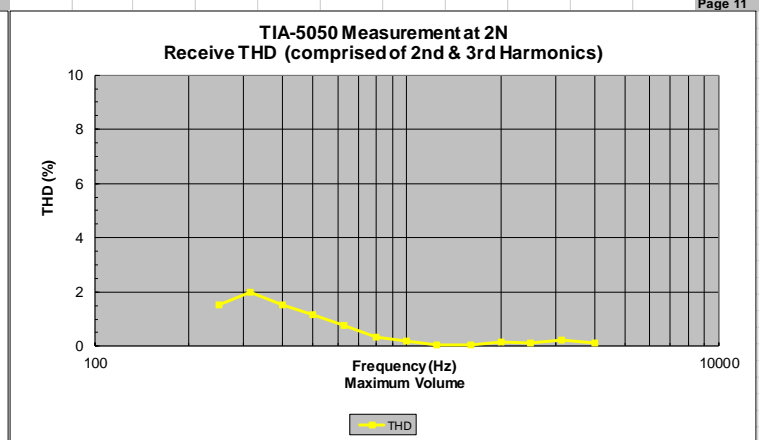
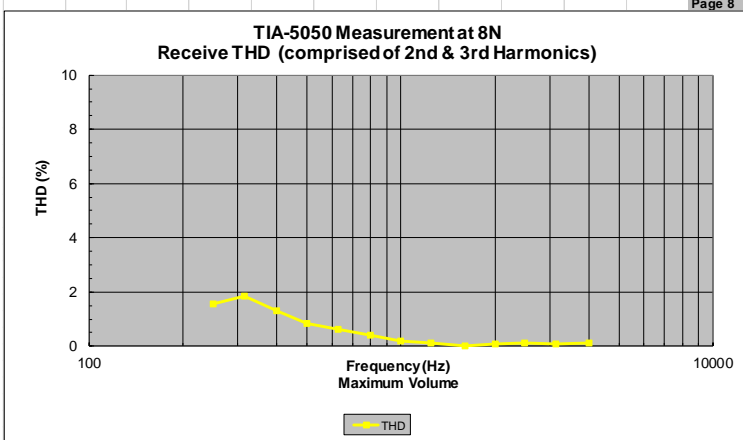
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	6/6/2024 16:39
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.51 dB	Absolute Limits	PASS	6/6/2024 16:39
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
6/6/2024 16:39
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/6/2024 16:39
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps



Test Date
6/6/2024 16:39
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/6/2024 16:39
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

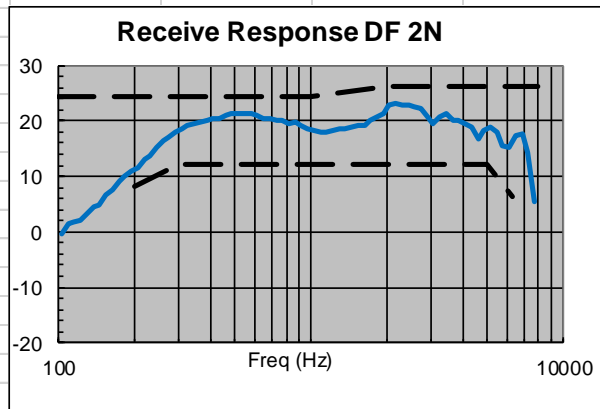
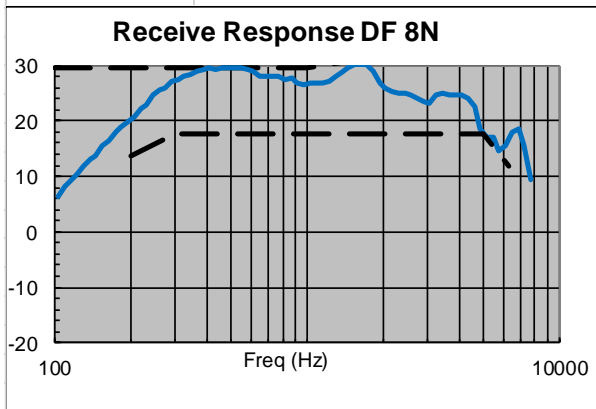
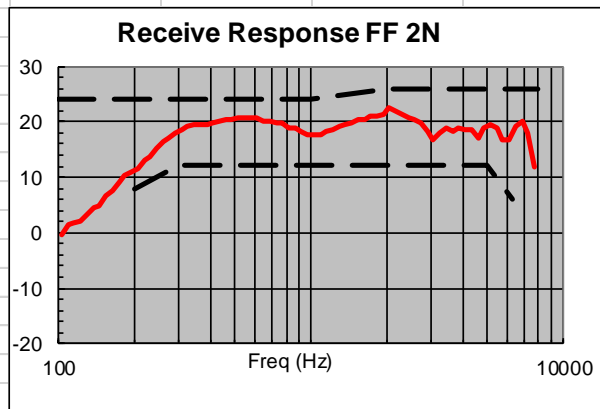
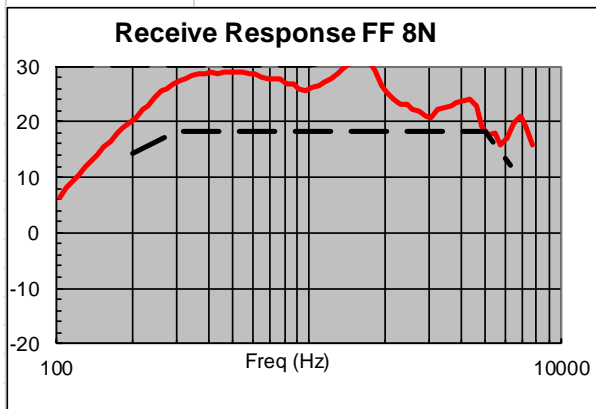
**NR n77 Block C EVS-WB: 24.4 kbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	n77 EVS-WB
Bandwidth:	Wideband
Test Date:	6/6/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.2 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.24 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.9 dB	Floating Limits	PASS	



Output

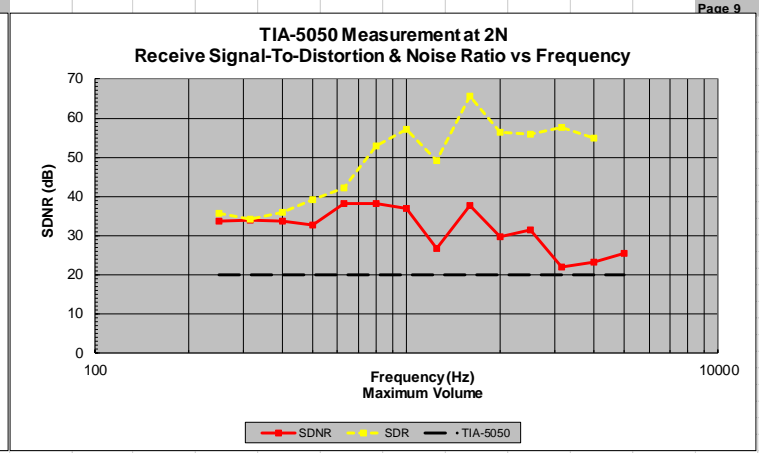
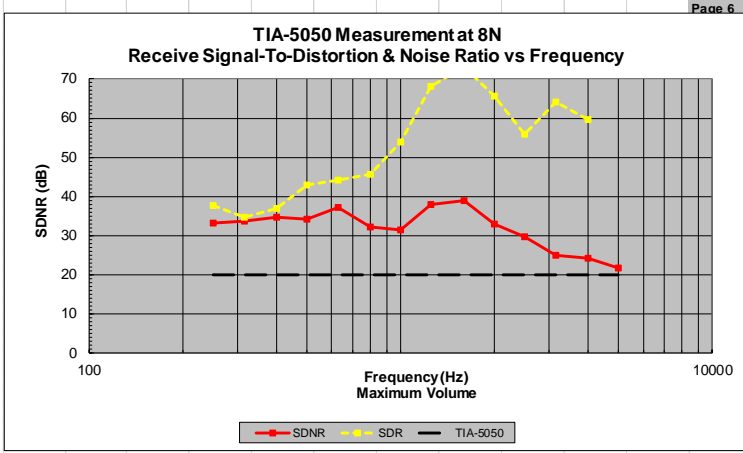
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	98.98 dB	info only		
	Recv conversational gain 8N	28.98 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.53 dB	info only		
	Recv conversational gain 2N	20.53 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.86 dB	Absolute Limits	PASS	

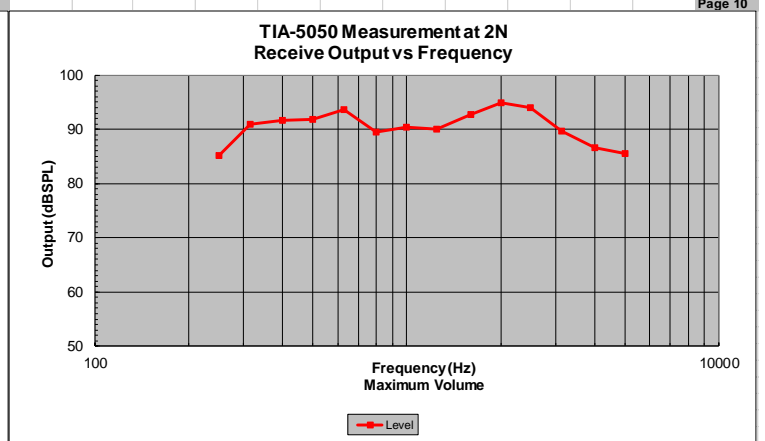
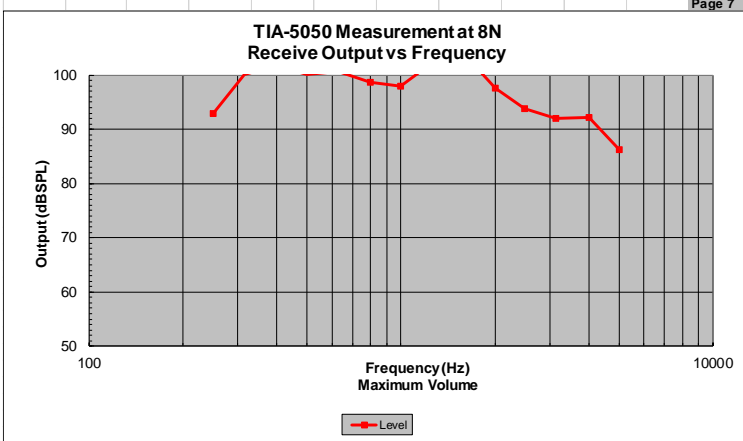
NR n77 Block C EVS-WB: 24.4 kbps

Distortion Report



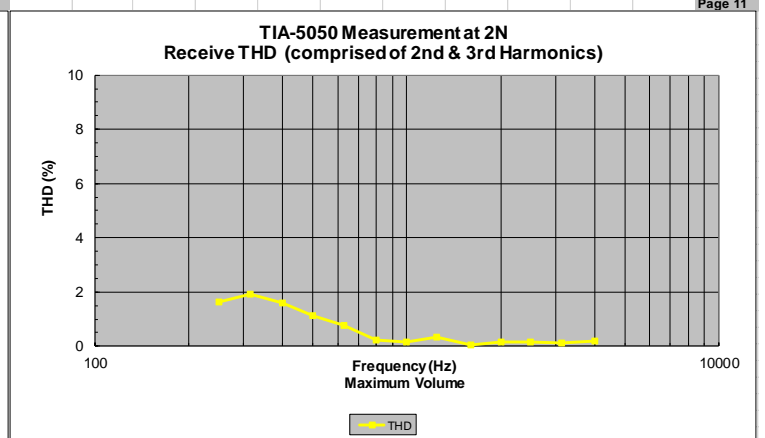
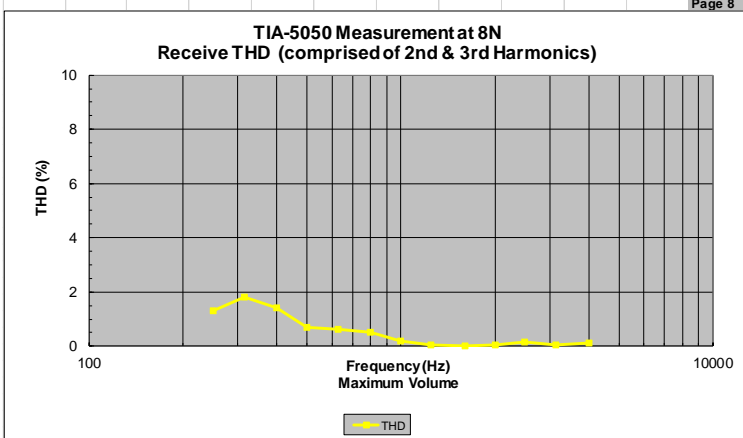
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	6/6/2024 16:53
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.86 dB	Absolute Limits	PASS	6/6/2024 16:53
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
6/6/2024 16:53
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps

Test Date
6/6/2024 16:53
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps



Test Date
6/6/2024 16:53
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps

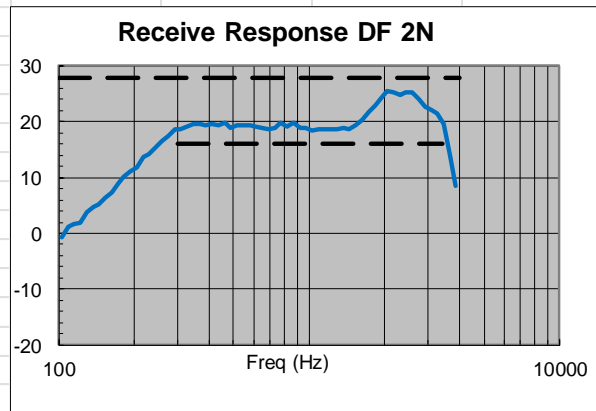
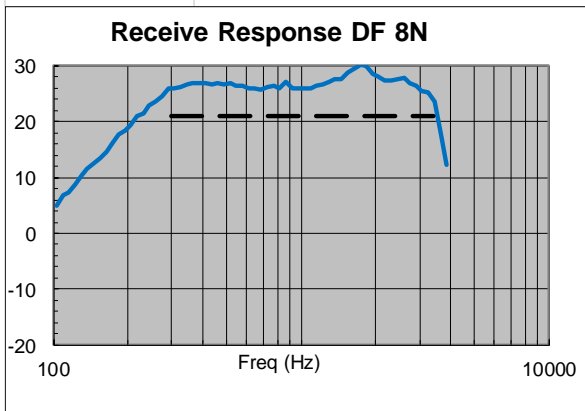
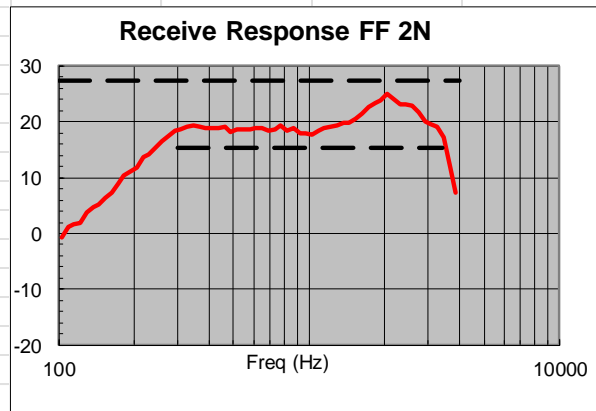
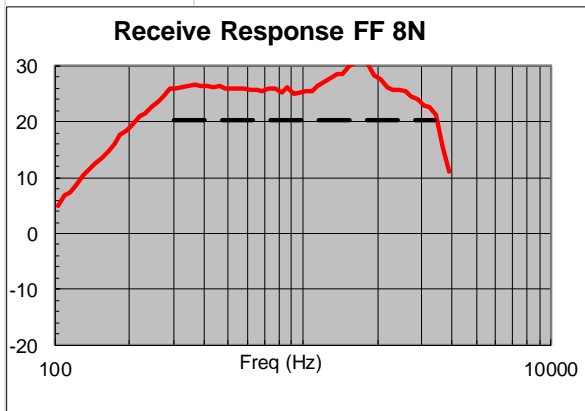
Test Date
6/6/2024 16:53
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps

**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**

Device Under Test:	802.11b CCK 5.5 EVS-NB
Bandwidth	Narrowband
Test Date:	6/9/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.12 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.4 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.51 dB	Floating Limits	PASS	



Output

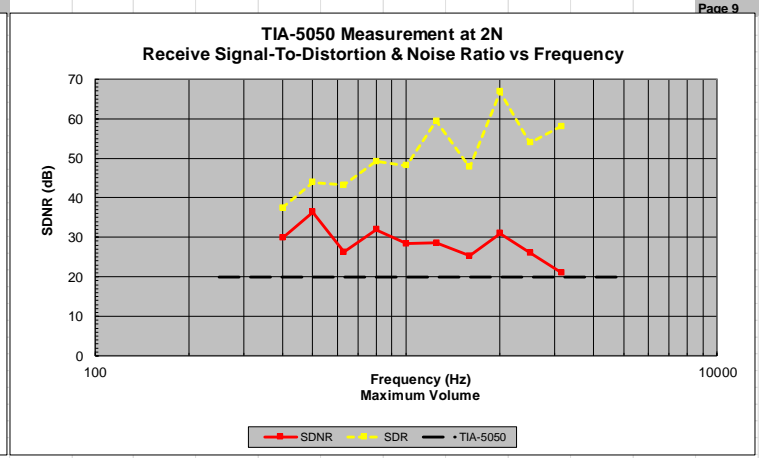
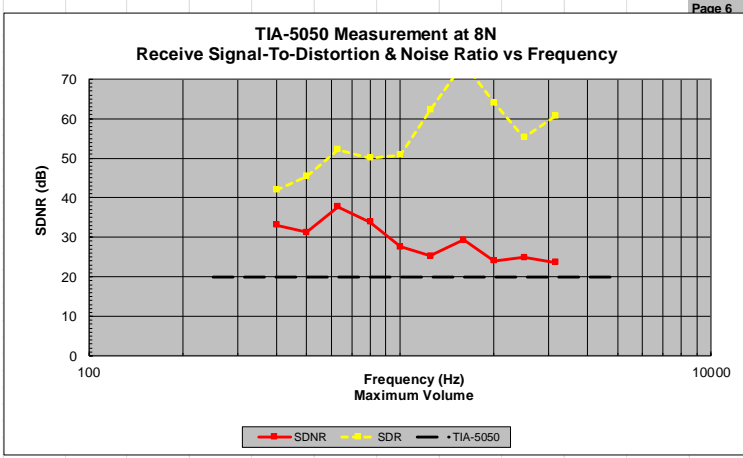
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.03 dB	info only		
	Recv conversational gain 8N	27.03 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.78 dB	info only		
	Recv conversational gain 2N	19.78 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.06 dB	Absolute Limits	PASS	

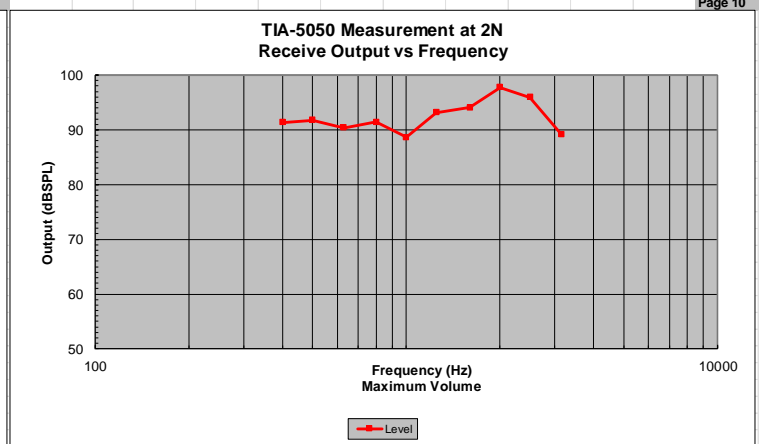
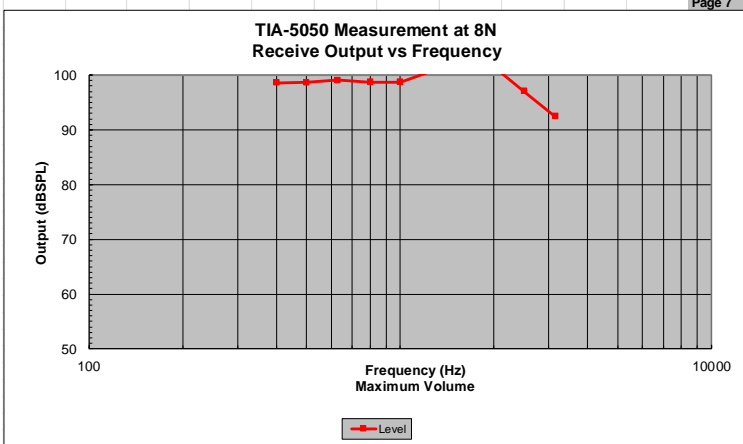
Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 5.5 Mbps

Distortion Report



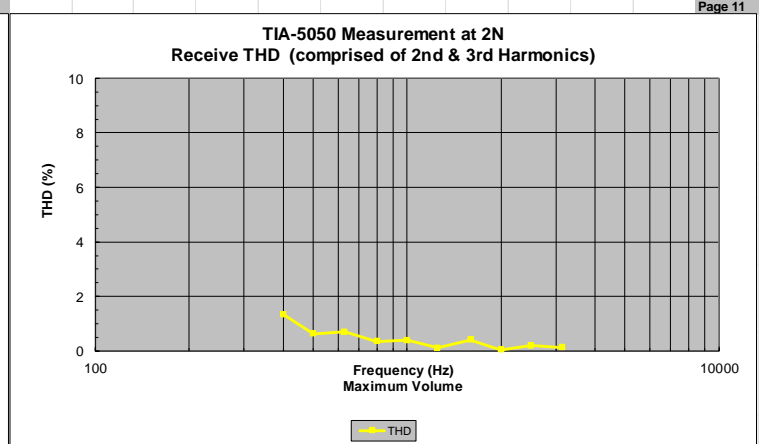
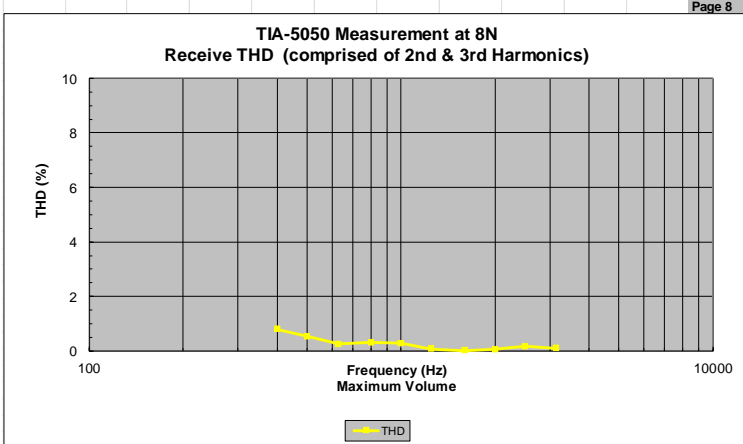
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.6 dB	Absolute Limits	PASS	6/9/2024 2:28
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.06 dB	Absolute Limits	PASS	6/9/2024 2:28
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	
6/9/2024 2:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/9/2024 2:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/9/2024 2:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/9/2024 2:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

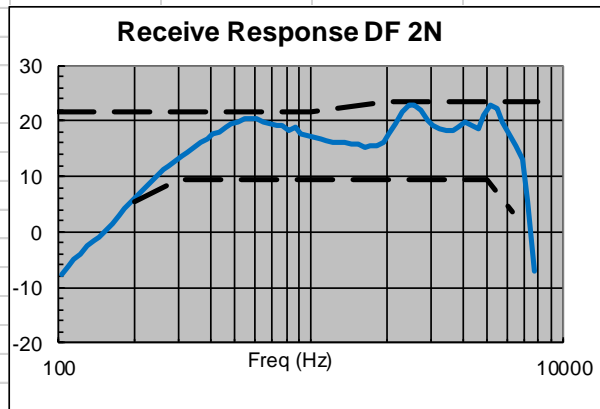
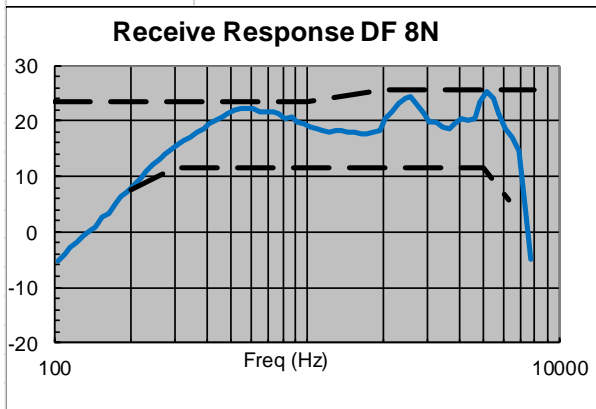
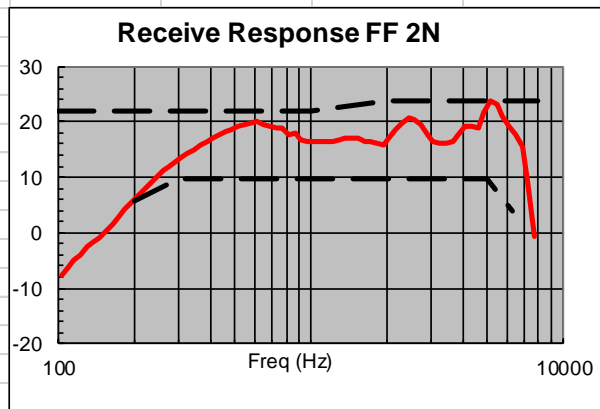
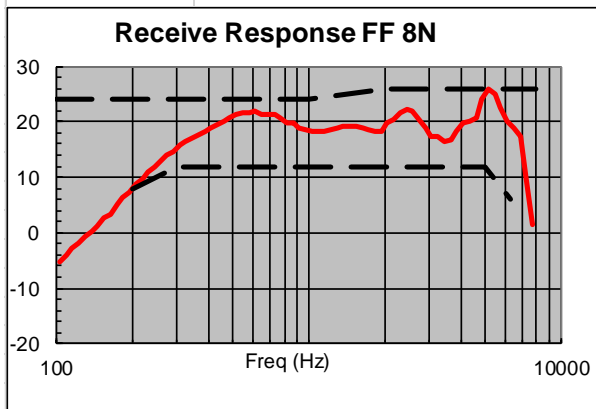
**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps CCK 11 Mbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	802.11b CCK11 EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.09 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.22 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.5 dB	Floating Limits	PASS	



Output

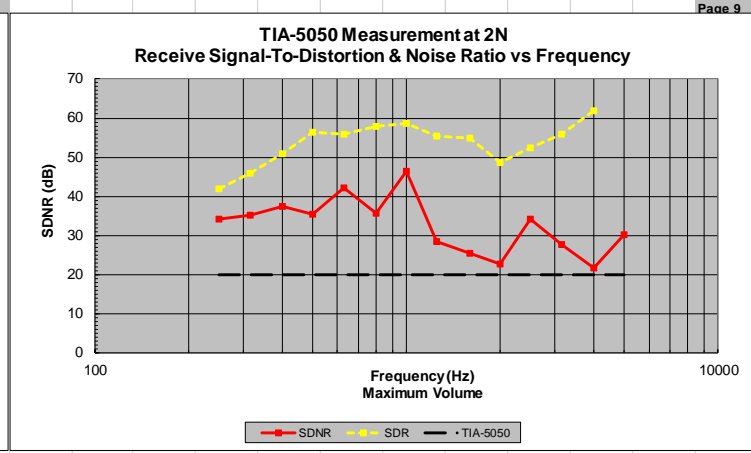
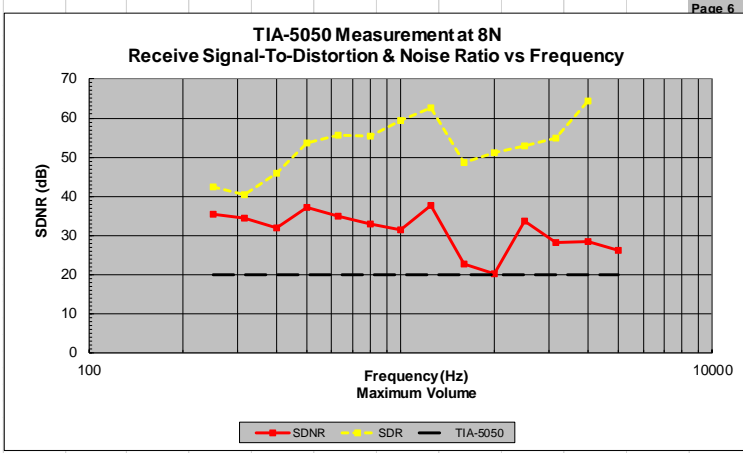
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.49 dB	info only		
	Recv conversational gain 8N	20.49 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.53 dB	info only		
	Recv conversational gain 2N	18.53 dB	6.00	PASS	

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	1.83 dB	Absolute Limits	PASS	

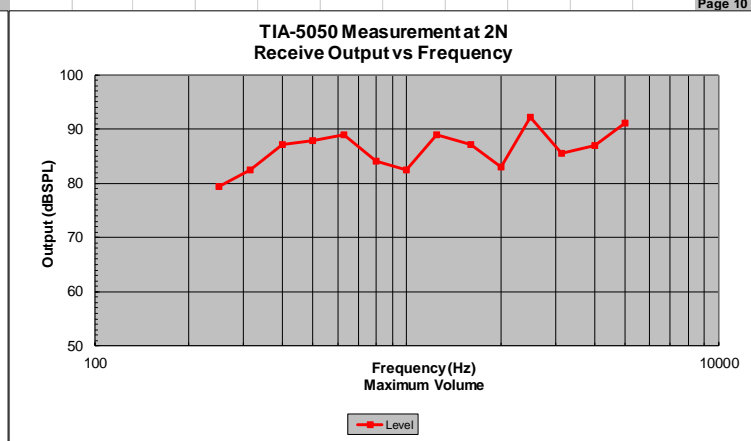
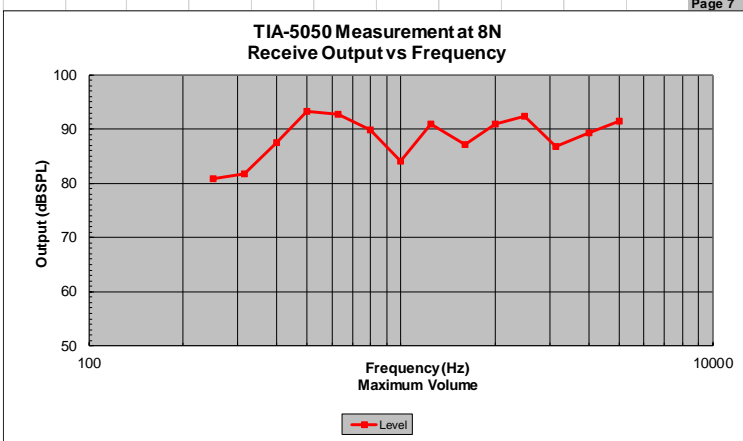
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps CCK 11 Mbps

Distortion Report



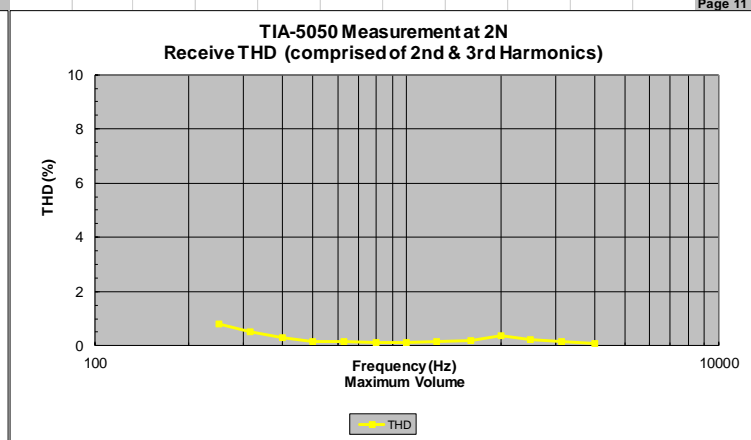
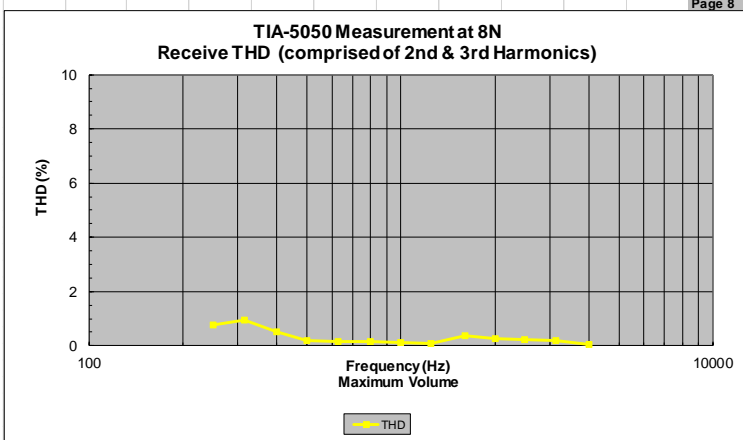
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/3/2024 13:02
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.83 dB	Absolute Limits	PASS	6/3/2024 13:02
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				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/3/2024 13:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/3/2024 13:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps



Test Date	
6/3/2024 13:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

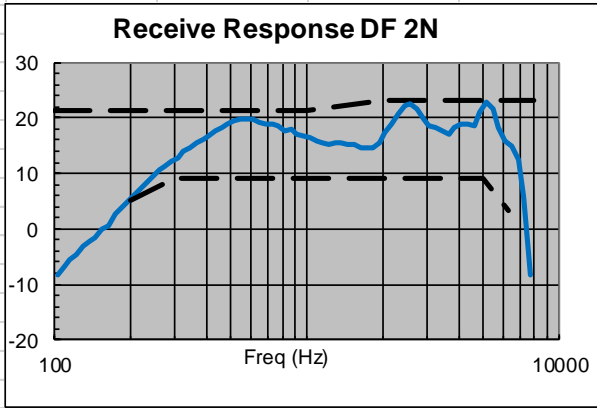
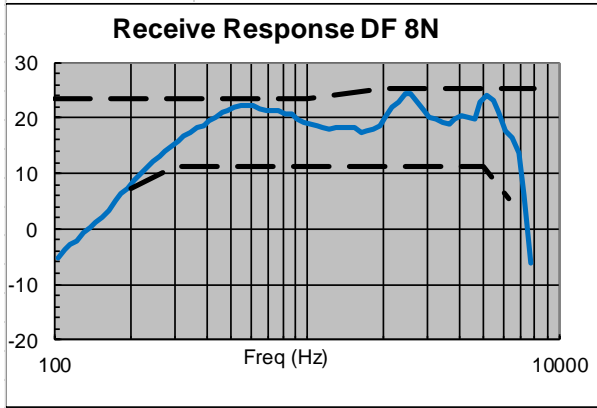
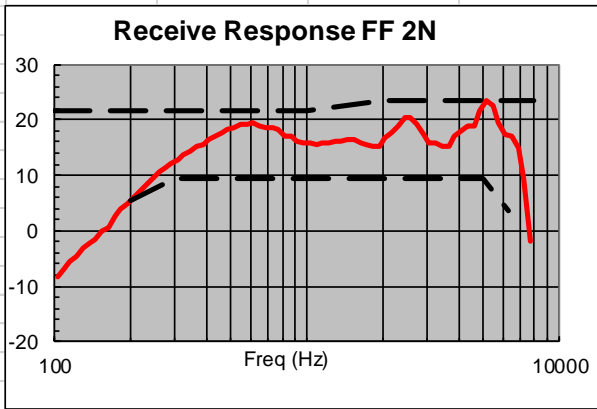
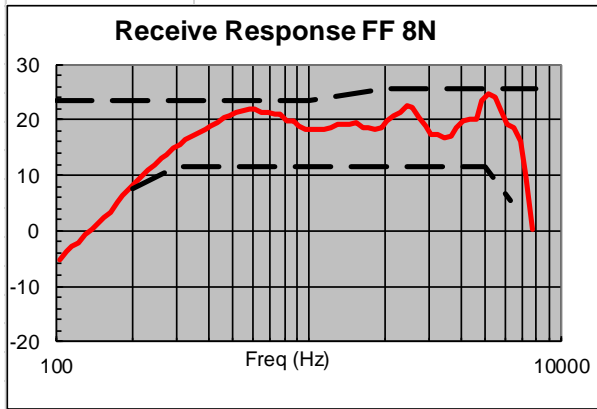
Test Date	
6/3/2024 13:02	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

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

Device Under Test:	802.11g 64QAM EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.78 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.9 dB	Floating Limits	PASS	
	Recv resp FF 2N	-0.04 dB	Floating Limits	FAIL	
	Recv resp DF 2N	0.3 dB	Floating Limits	PASS	



Output

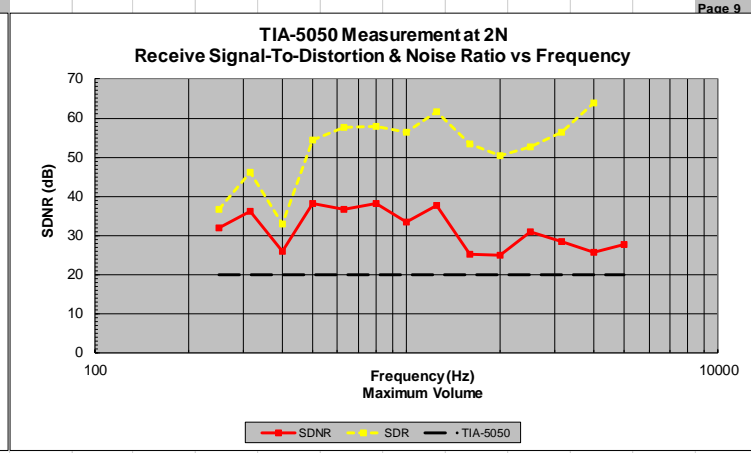
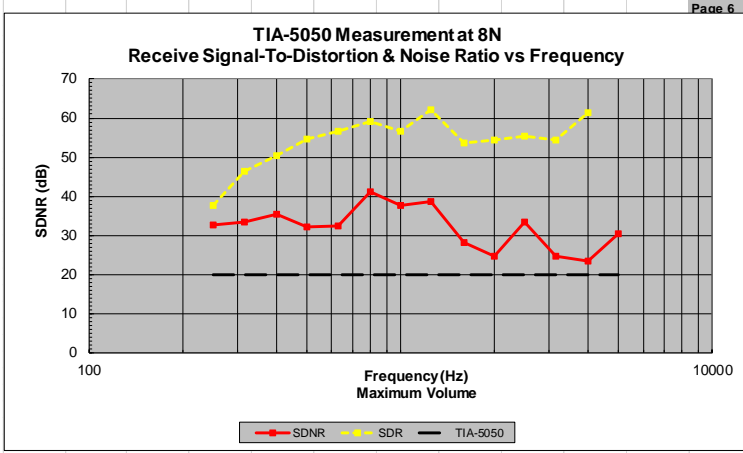
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.51 dB	info only		
	Recv conversational gain 8N	20.51 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.94 dB	info only		
	Recv conversational gain 2N	17.94 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	3.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.86 dB	Absolute Limits	PASS	

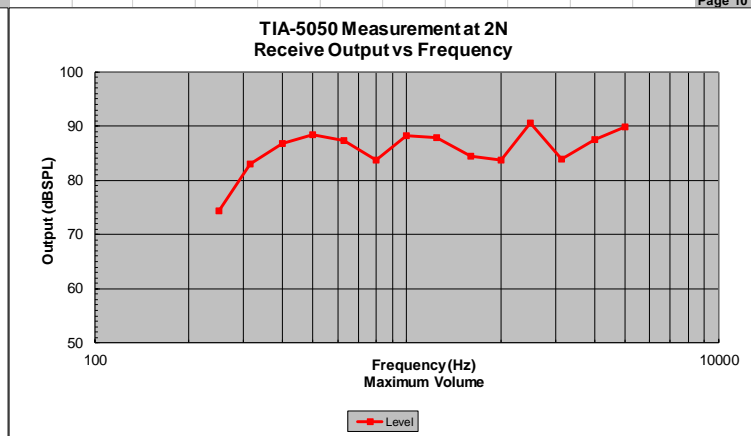
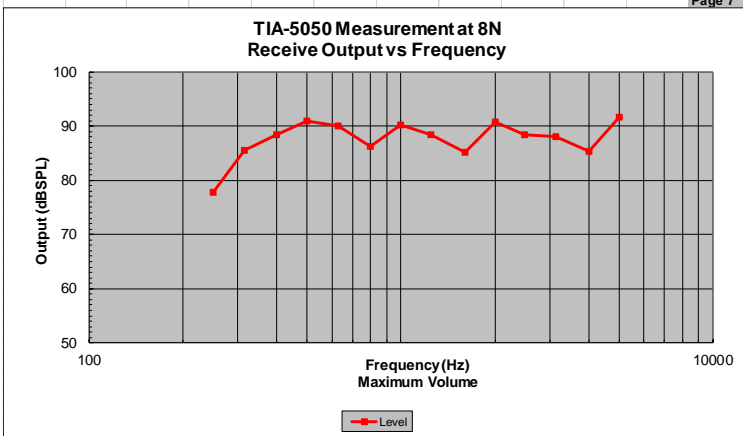
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps 64QAM 54 Mbps

Distortion Report



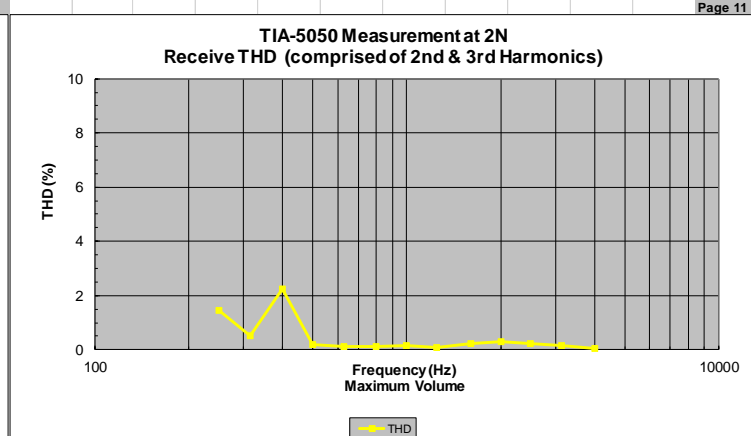
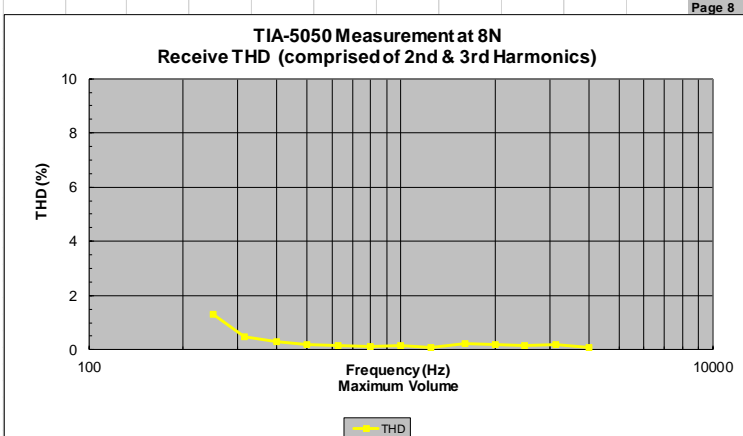
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	3.5 dB	Absolute Limits	PASS	6/3/2024 13:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-20 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.86 dB	Absolute Limits	PASS	6/3/2024 13:41
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				-20 dBPa
Comments:	24.4 kbps			



Test Date	
6/3/2024 13:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

Test Date	
6/3/2024 13:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps



Test Date	
6/3/2024 13:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

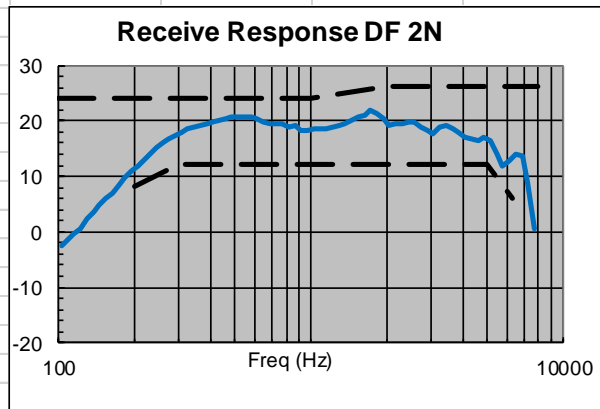
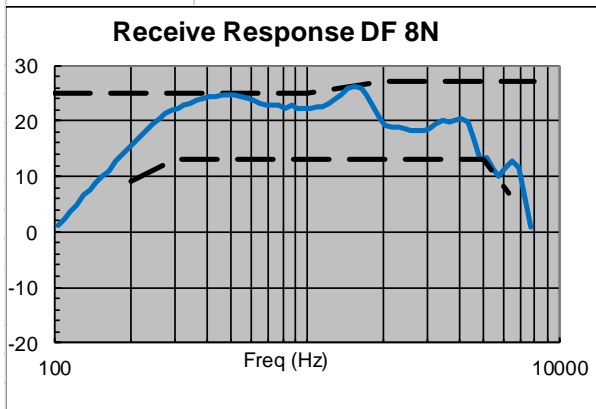
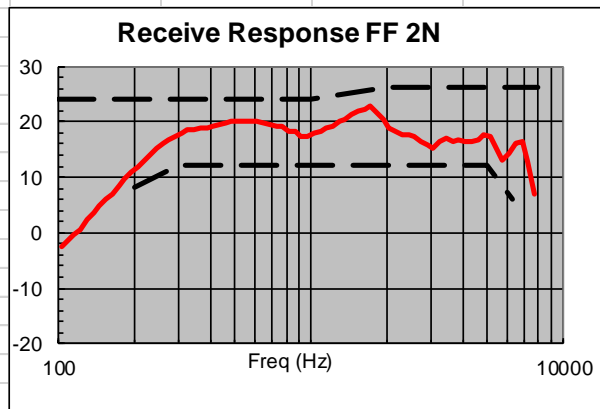
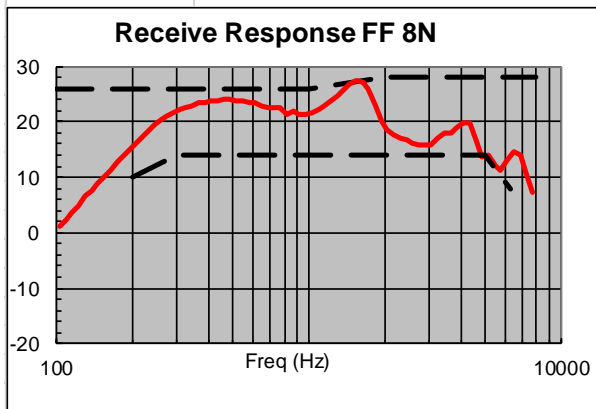
Test Date	
6/3/2024 13:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-20 dBPa
Comments:	24.4 kbps

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

Device Under Test:	802.11n EVS-WB
Bandwidth	Wideband
Test Date:	6/10/2024

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	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.97 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.3 dB	Floating Limits	PASS	



Output

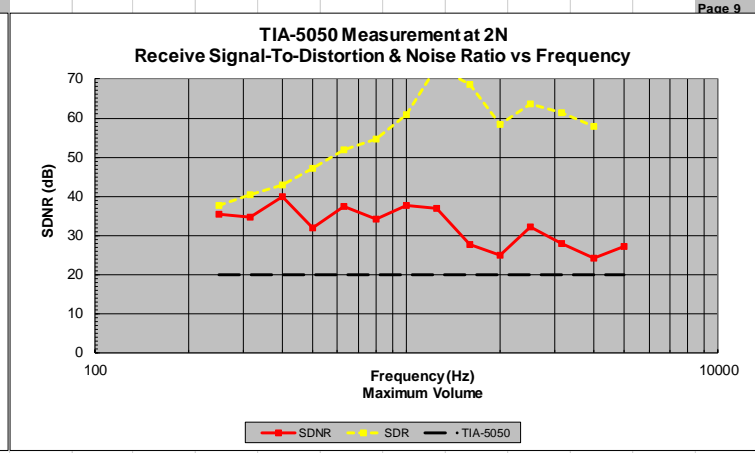
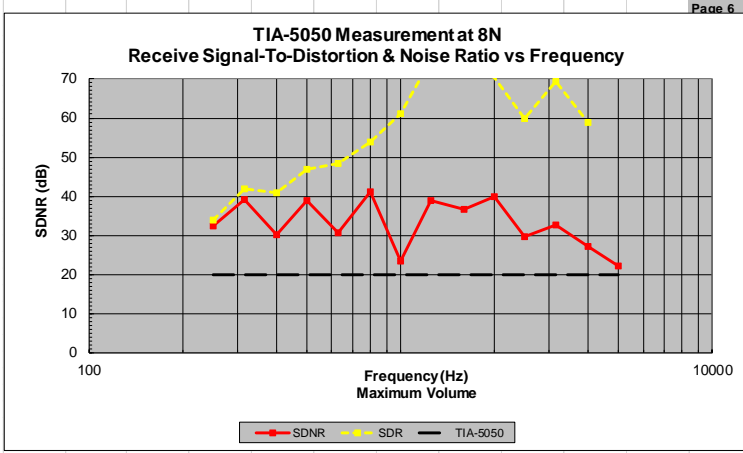
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.05 dB	info only		
	Recv conversational gain 8N	24.05 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.14 dB	info only		
	Recv conversational gain 2N	20.14 dB	6.00	PASS	

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	4.11 dB	Absolute Limits	PASS	

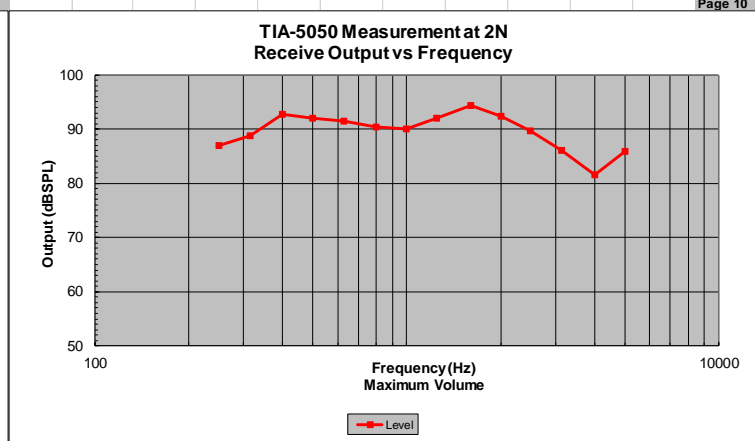
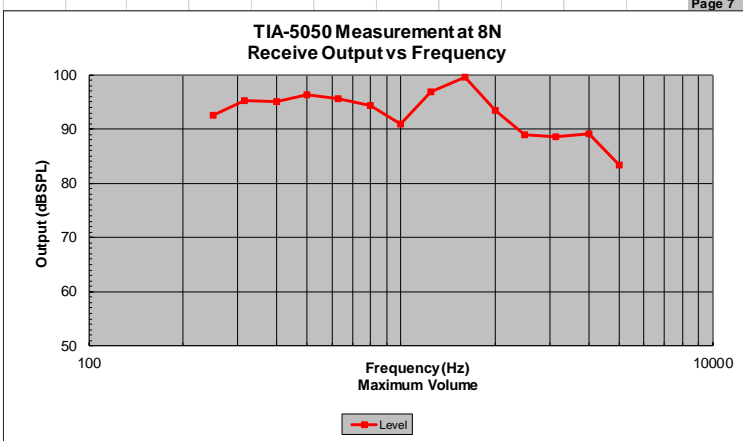
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS7 65 Mbps

Distortion Report



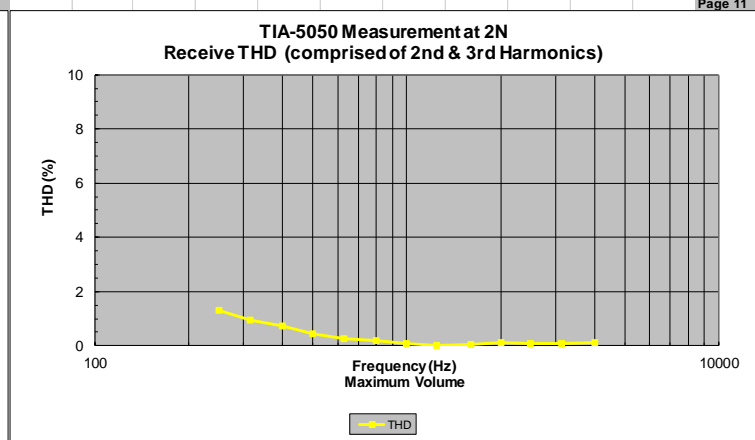
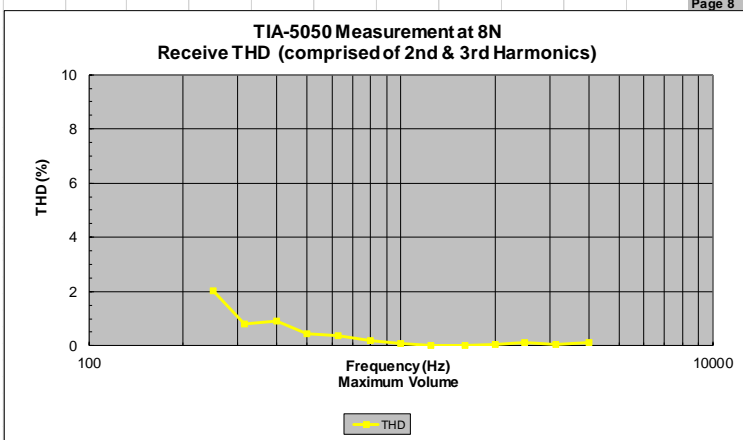
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.3 dB	Absolute Limits	PASS	6/10/2024 9:15
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level -20 dBPa				
Sentence conditioning -20 dBPa				
Short conditioning -99 dBPa				
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.11 dB	Absolute Limits	PASS	6/10/2024 9:15
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
6/10/2024 9:15
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
24.4 kbps

Test Date
6/10/2024 9:15
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
24.4 kbps



Test Date
6/10/2024 9:15
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
24.4 kbps

Test Date
6/10/2024 9:15
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
24.4 kbps

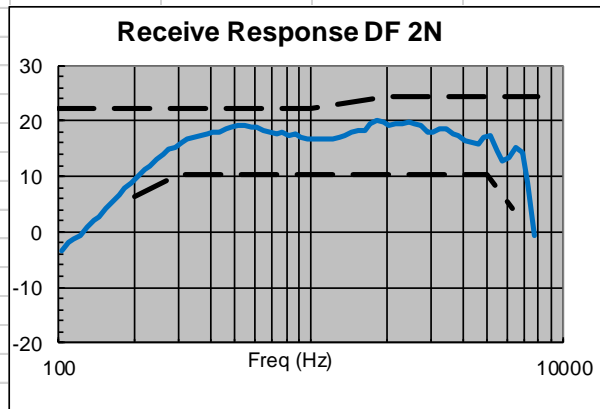
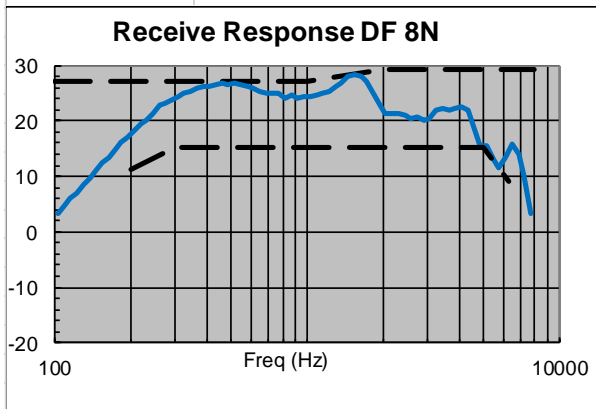
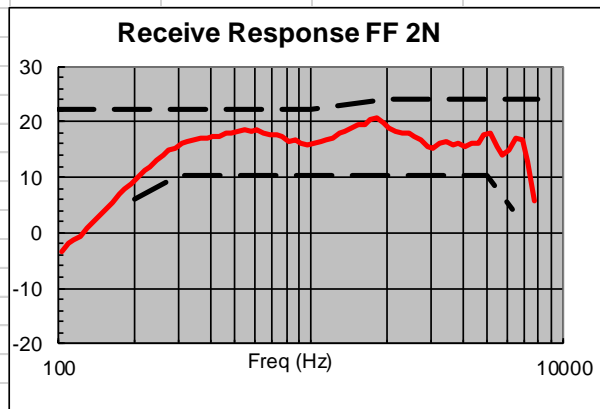
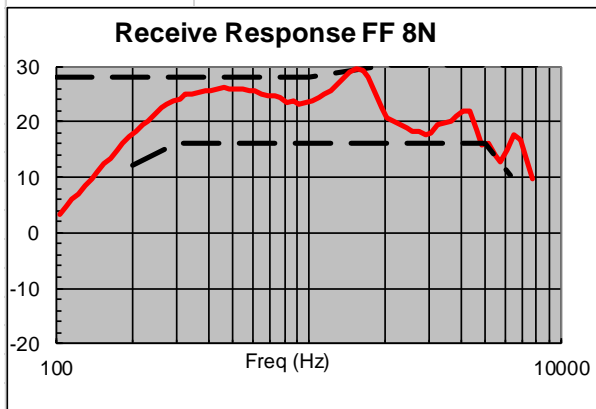
**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS9 114.7 Mbps
Conversational Gain & Frequency Response Report**

TIA-5050 Receive Volume Control Measurements

Device Under Test:	802.11ax EVS-WB
Bandwidth	Wideband
Test Date:	6/10/2024

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	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.26 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.1 dB	Floating Limits	PASS	



Output

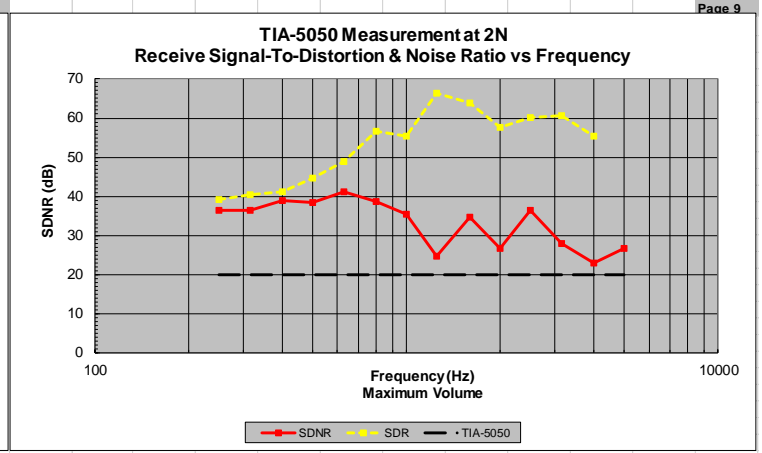
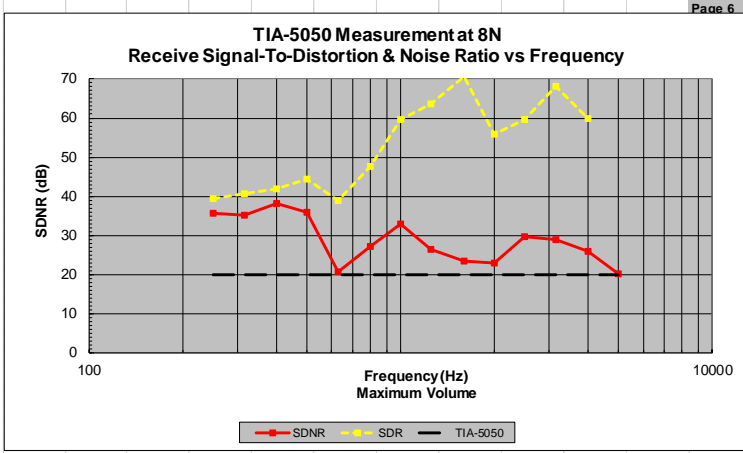
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.15 dB	info only		
	Recv conversational gain 8N	26.15 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.32 dB	info only		
	Recv conversational gain 2N	18.32 dB	6.00	PASS	

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	2.92 dB	Absolute Limits	PASS	

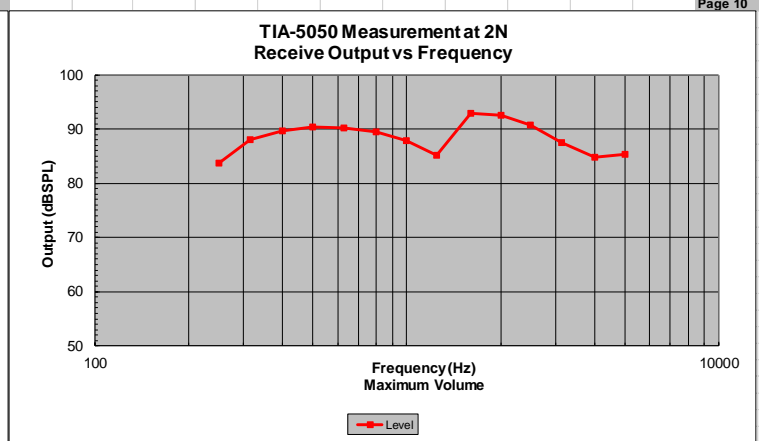
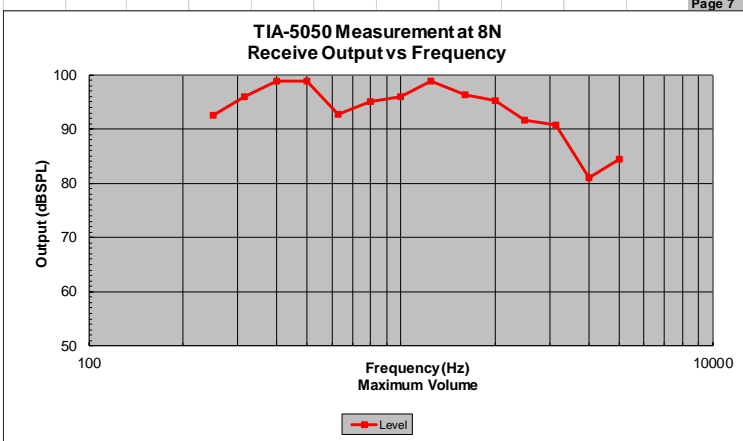
Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps MCS9 114.7 Mbps

Distortion Report



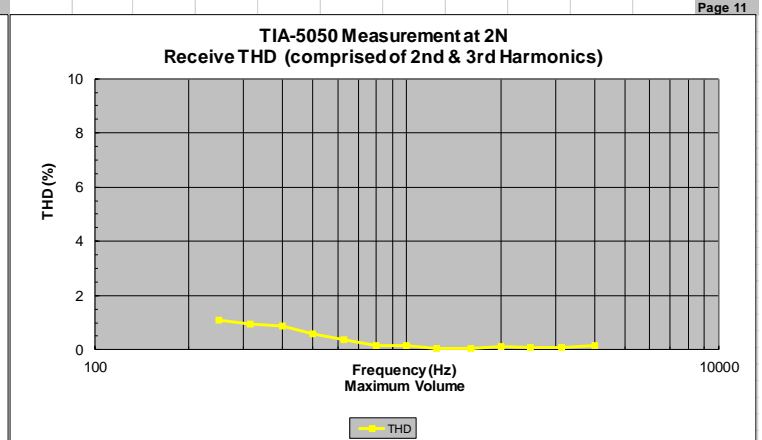
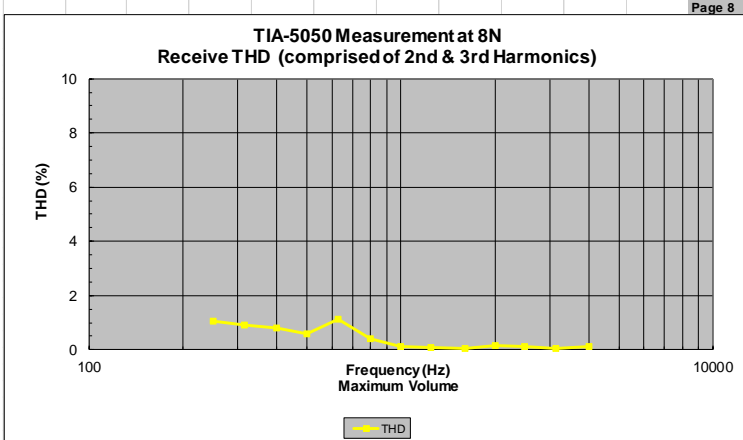
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	6/10/2024 9:38
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.92 dB	Absolute Limits	PASS	6/10/2024 9:38
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
6/10/2024 9:38
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/10/2024 9:38
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/10/2024 9:38
Stimulus level
Sentence conditioning
Short conditioning
Comments:

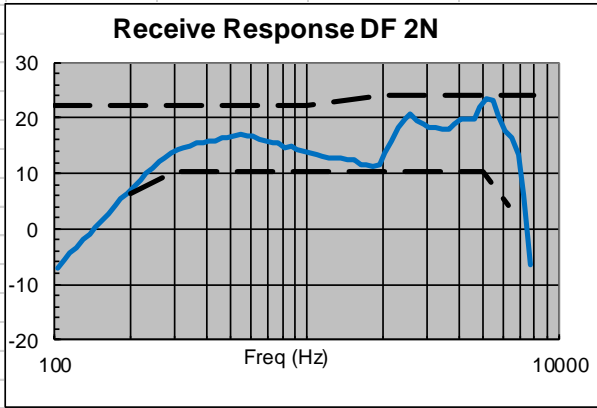
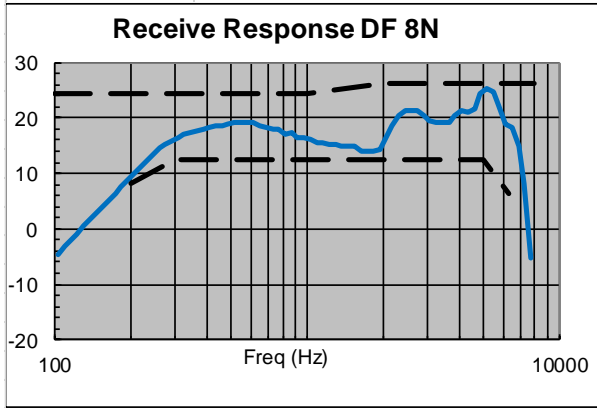
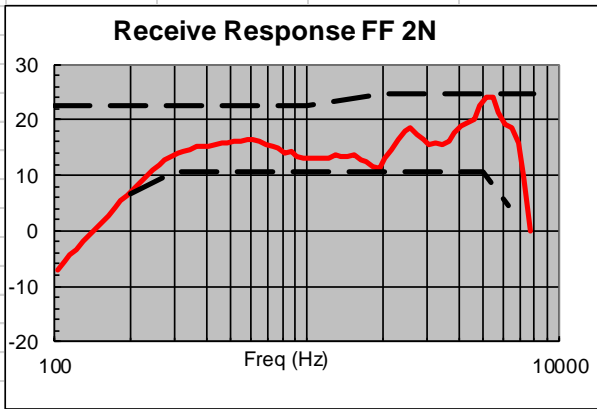
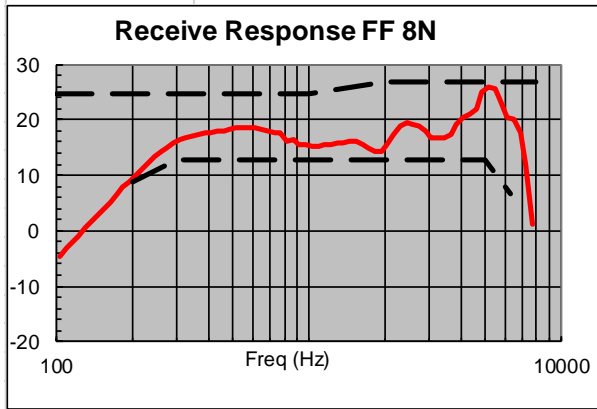
Test Date
6/10/2024 9:38
Stimulus level
Sentence conditioning
Short conditioning
Comments:

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

Device Under Test:	802.11a 64QAM EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.82 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.58 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.9 dB	Floating Limits	PASS	



Output

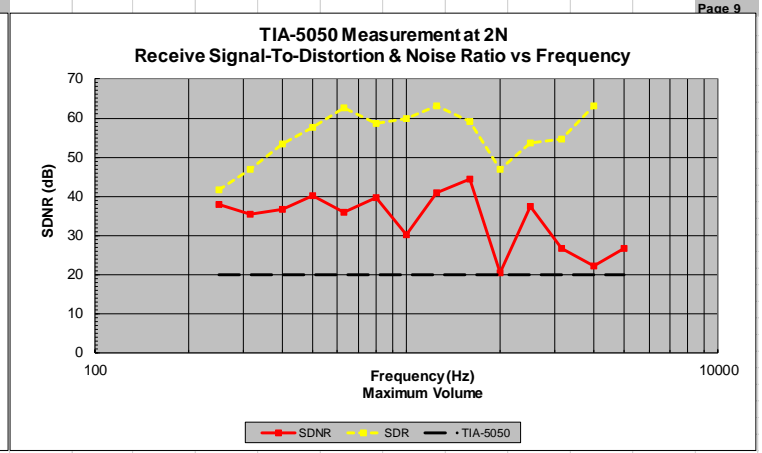
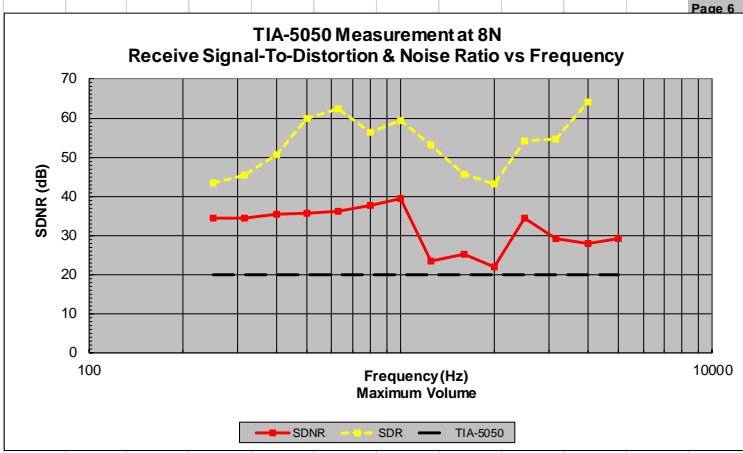
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.34 dB	info only		
	Recv conversational gain 8N	18.34 dB	18.00	PASS	
	Recv output level dB SPL 2N	86.03 dB	info only		
	Recv conversational gain 2N	16.03 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.43 dB	Absolute Limits	PASS	

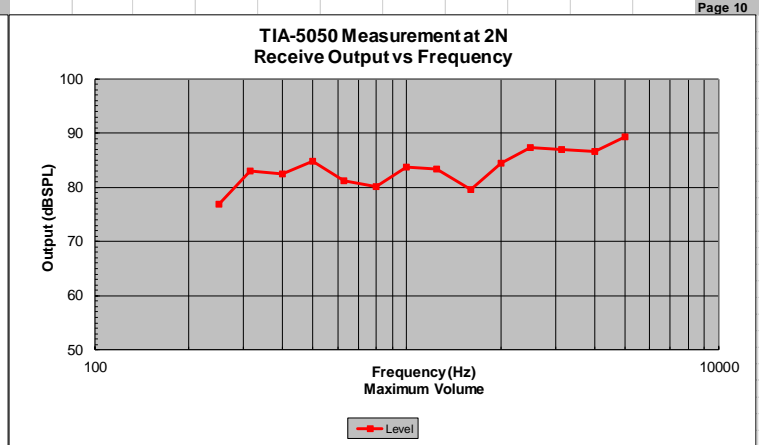
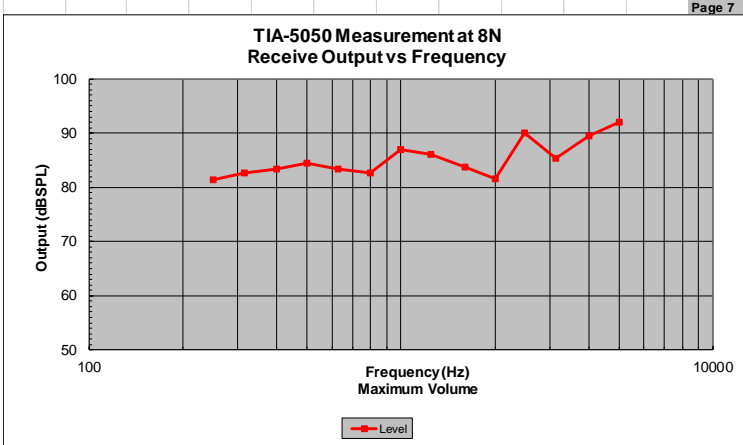
Wi-Fi 5 GHz EVS-WB: 24.4 kbps 64QAM 54 Mbps

Distortion Report



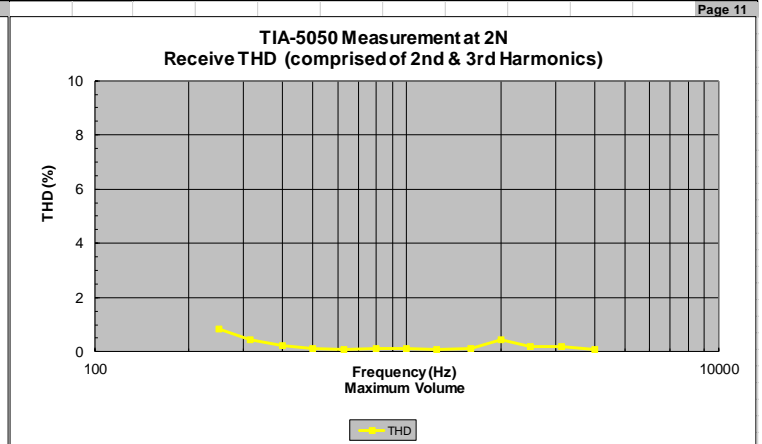
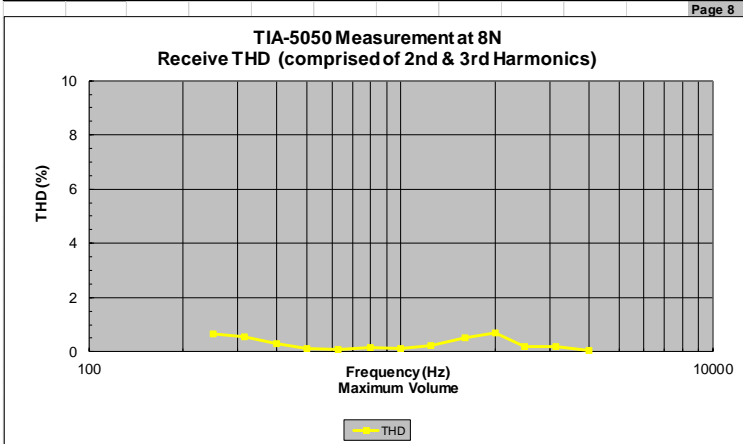
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.9 dB	Absolute Limits	PASS	6/3/2024 20:05
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.43 dB	Absolute Limits	PASS	6/3/2024 20:05
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
6/3/2024 20:05
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/3/2024 20:05
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/3/2024 20:05
Stimulus level
Sentence conditioning
Short conditioning
Comments:

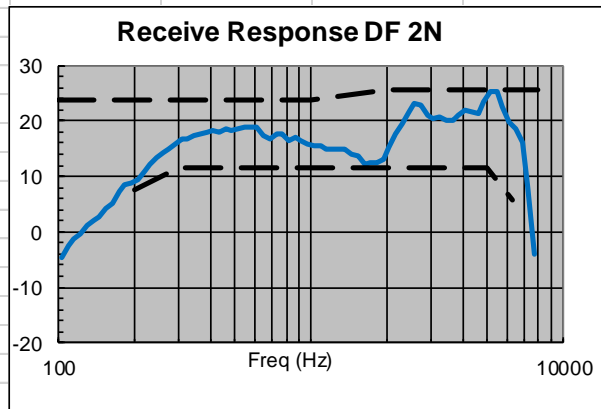
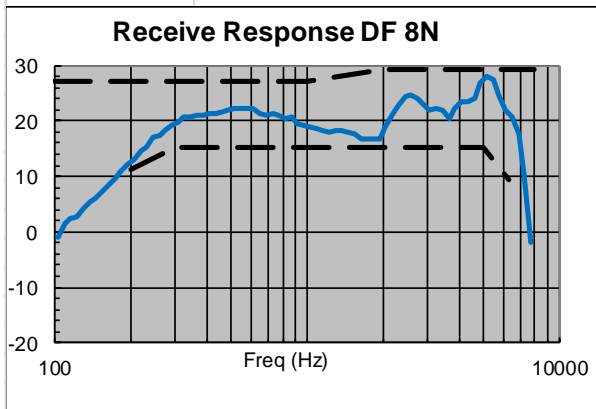
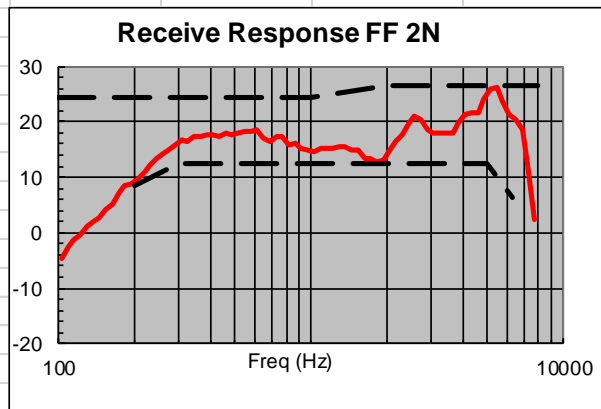
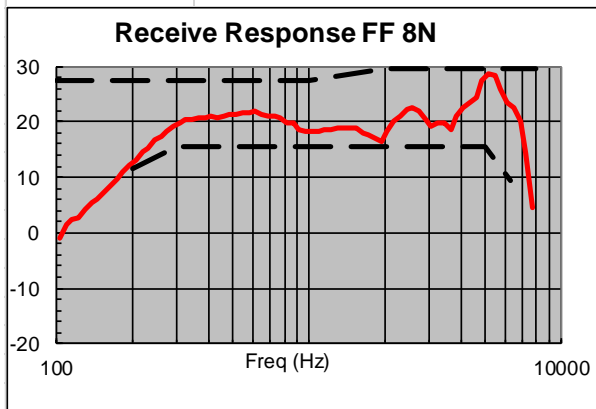
Test Date
6/3/2024 20:05
Stimulus level
Sentence conditioning
Short conditioning
Comments:

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

Device Under Test:	802.11n MCS7 EVS-WB
Bandwidth	Wideband
Test Date:	6/3/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.92 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	0.35 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.5 dB	Floating Limits	PASS	



Output

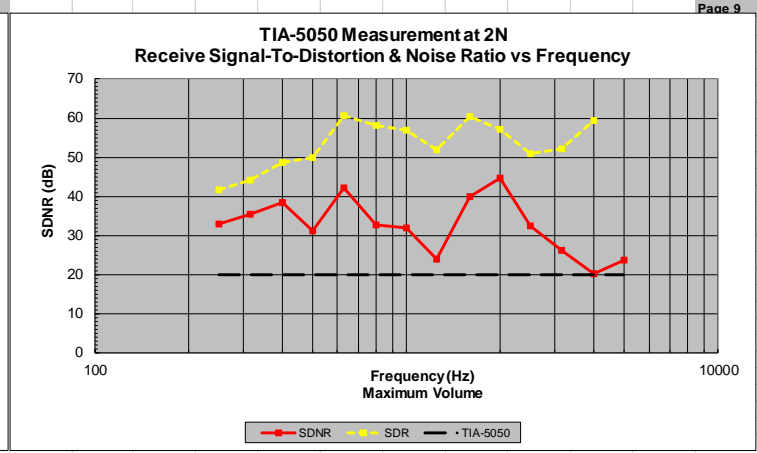
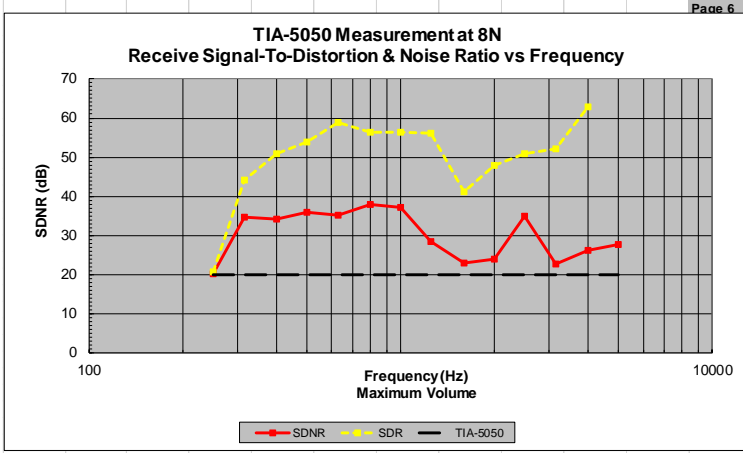
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.4 dB	info only		
	Recv conversational gain 8N	21.4 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.03 dB	info only		
	Recv conversational gain 2N	18.03 dB	6.00	PASS	

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	0.3 dB	Absolute Limits	PASS	

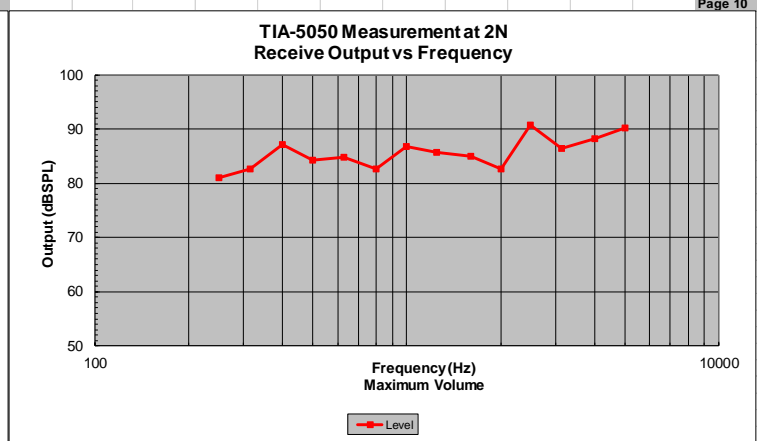
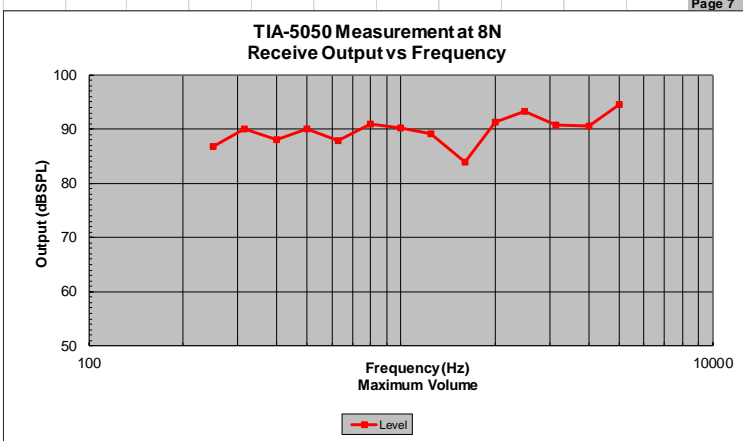
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS7 135 Mbps

Distortion Report



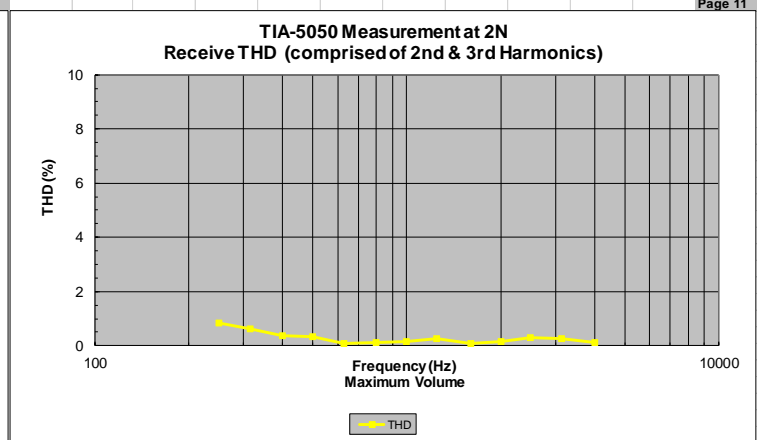
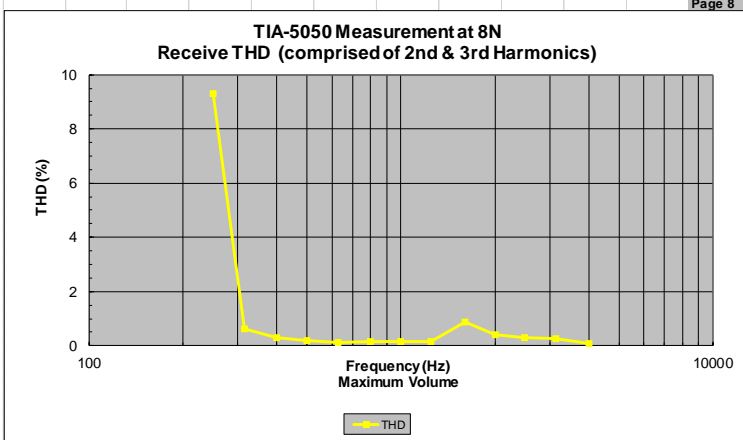
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/3/2024 21:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-20 dBPa	
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.3 dB	Absolute Limits	PASS	6/3/2024 21:36
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	-20 dBPa	
Comments:	24.4 kbps			



Test Date		
6/3/2024 21:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

Test Date		
6/3/2024 21:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	



Test Date		
6/3/2024 21:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

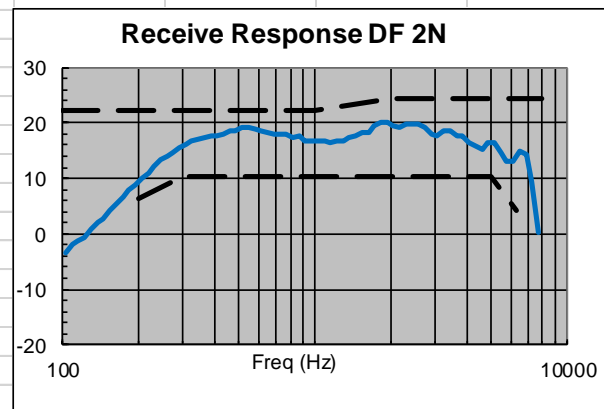
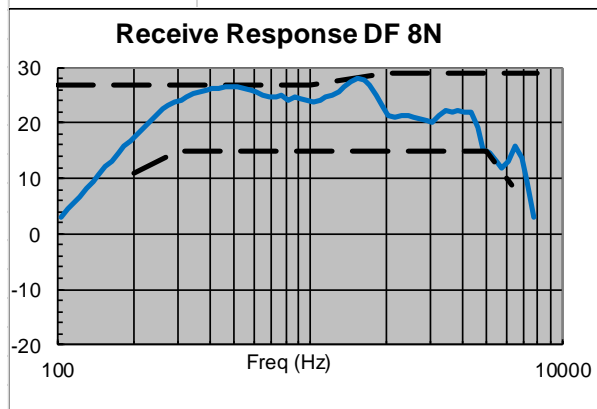
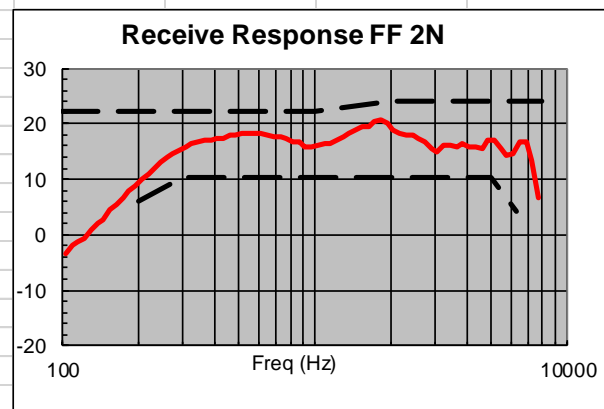
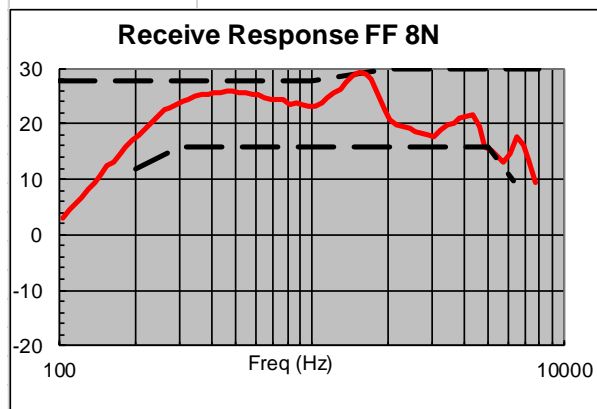
Test Date		
6/3/2024 21:36		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-20 dBPa	
Comments:	24.4 kbps	

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS9 390 Mbps
Conversational Gain & Frequency Response Report
TIA-5050 Receive Volume Control Measurements**

Device Under Test:	802.11ac80 EVS-WB
Bandwidth	Wideband
Test Date:	6/10/2024

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	0.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.34 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

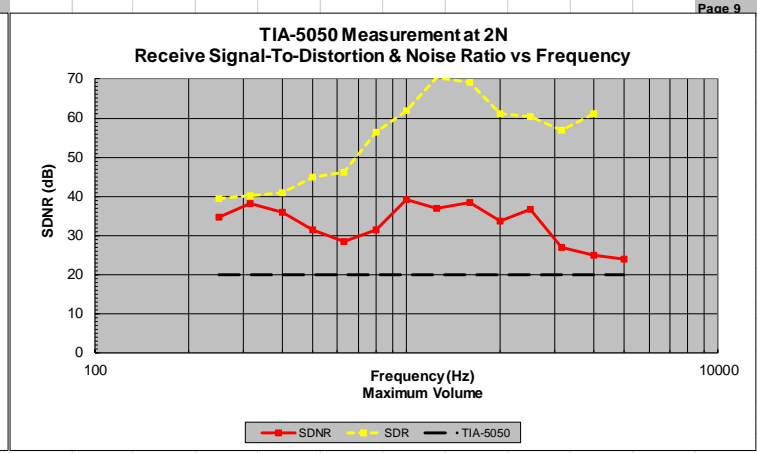
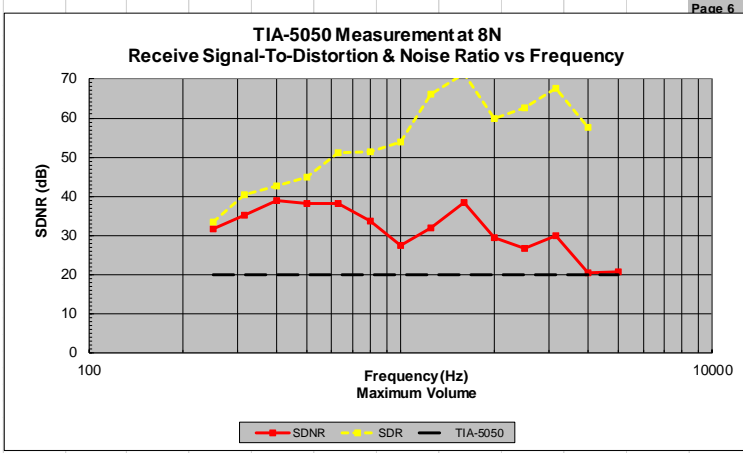
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.9 dB	info only		
	Recv conversational gain 8N	25.9 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.3 dB	info only		
	Recv conversational gain 2N	18.3 dB	6.00	PASS	

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	3.98 dB	Absolute Limits	PASS	

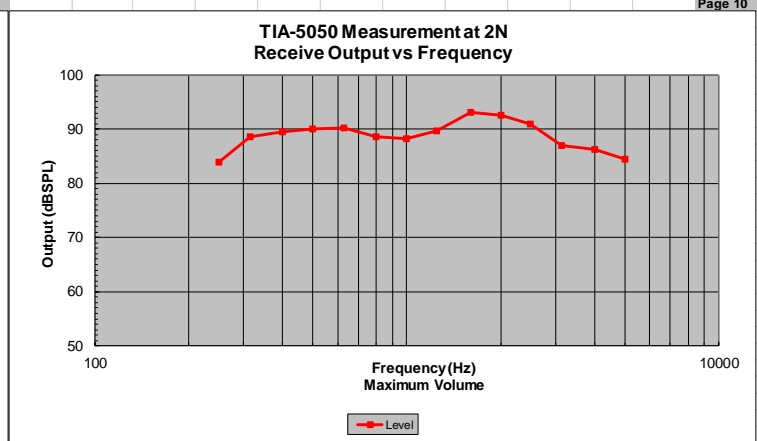
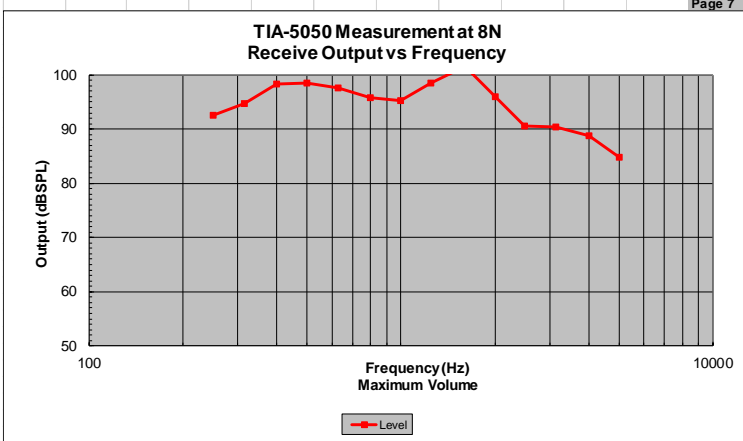
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS9 390 Mbps

Distortion Report



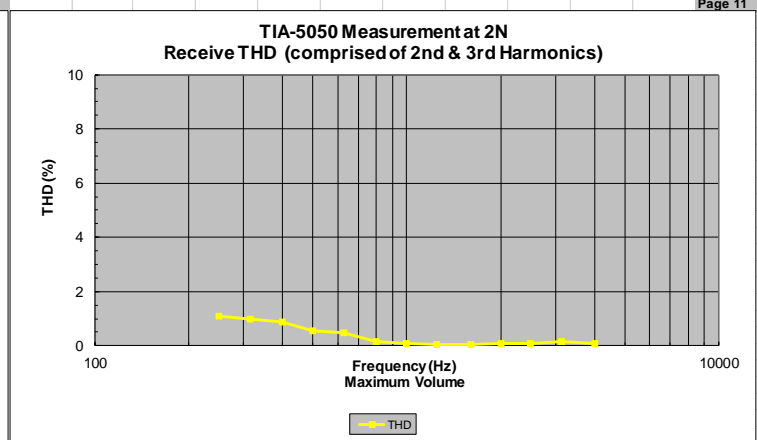
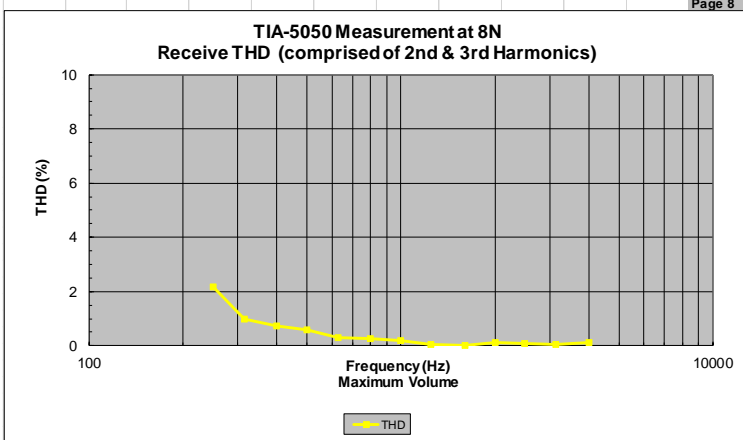
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	6/10/2024 10:21
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:		24.4 kbps		

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.98 dB	Absolute Limits	PASS	6/10/2024 10:21
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	
6/10/2024 10:21	
Stimulus level	
Sentence conditioning	
Short conditioning	
Comments:	
24.4 kbps	

Test Date	
6/10/2024 10:21	
Stimulus level	
Sentence conditioning	
Short conditioning	
Comments:	
24.4 kbps	



Test Date	
6/10/2024 10:21	
Stimulus level	
Sentence conditioning	
Short conditioning	
Comments:	
24.4 kbps	

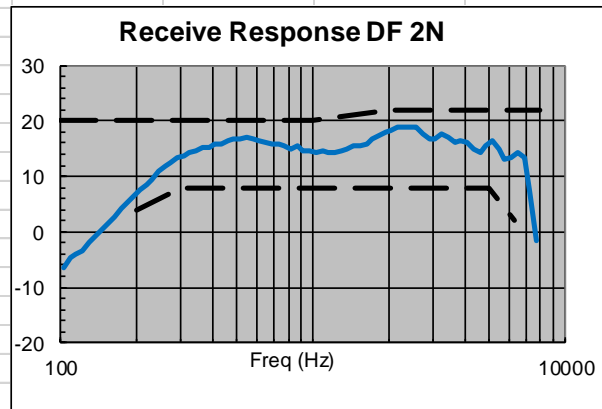
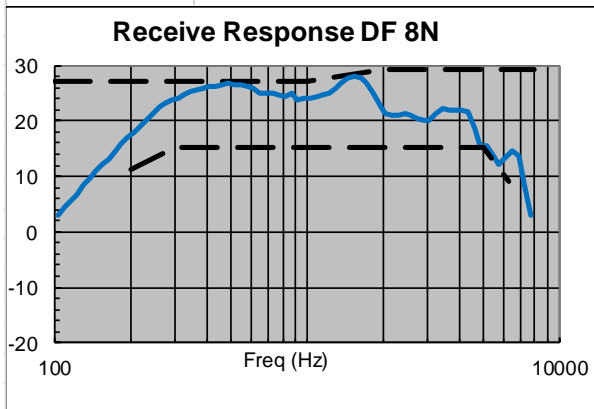
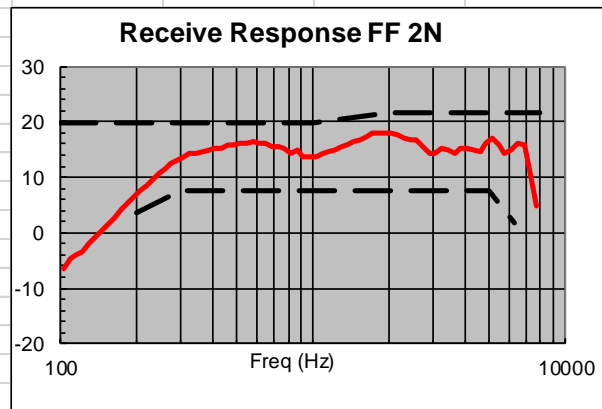
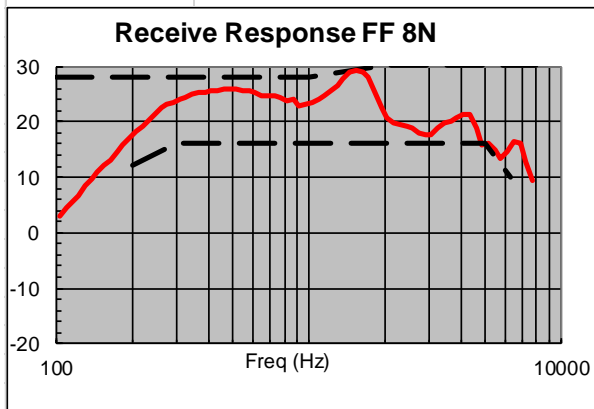
Test Date	
6/10/2024 10:21	
Stimulus level	
Sentence conditioning	
Short conditioning	
Comments:	
24.4 kbps	

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 1201 Mbps
Conversational Gain & Frequency Response Report
TIA-5050 Receive Volume Control Measurements**

Device Under Test:	802.11ax160 EVS-WB
Bandwidth	Wideband
Test Date:	6/10/2024

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	3.33 dB	Floating Limits	PASS	
	Recv resp DF 2N	3 dB	Floating Limits	PASS	



Output

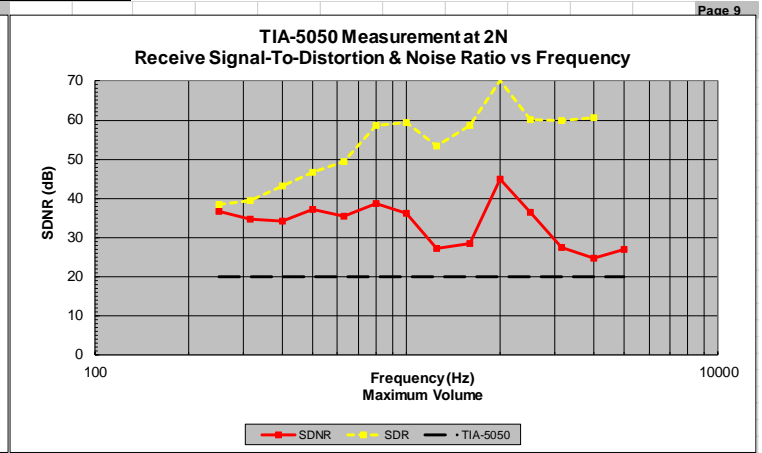
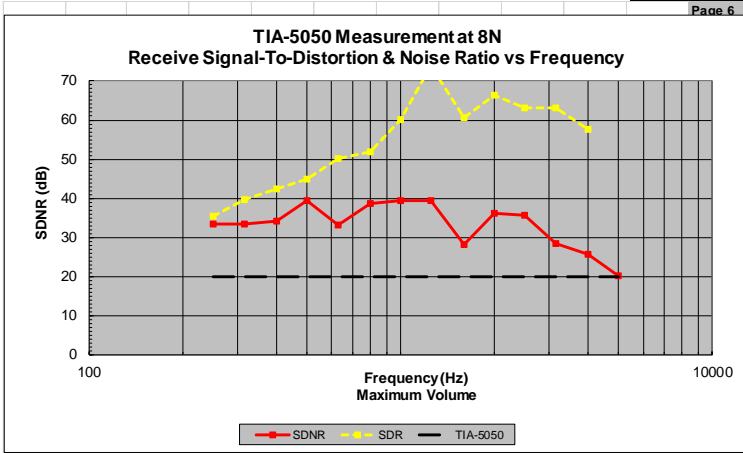
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	96.01 dB	info only		
	Recv conversational gain 8N	26.01 dB	18.00	PASS	
	Recv output level dB SPL 2N	86.16 dB	info only		
	Recv conversational gain 2N	16.16 dB	6.00	PASS	

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	4.79 dB	Absolute Limits	PASS	

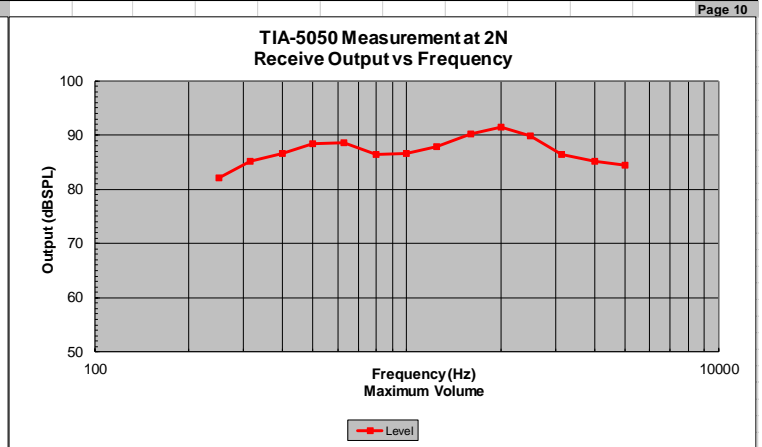
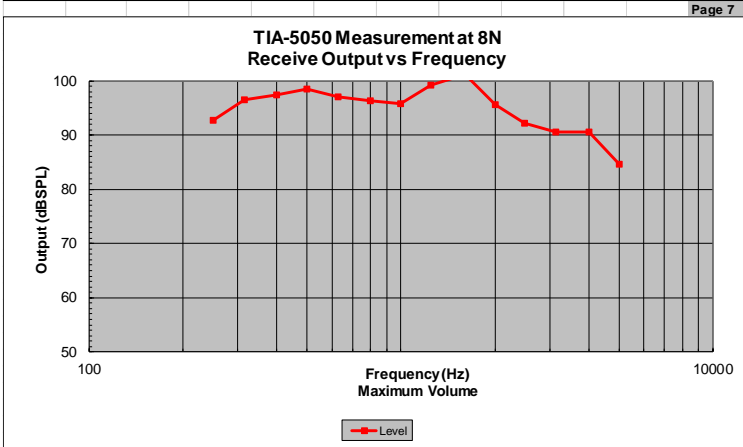
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 1201 Mbps

Distortion Report



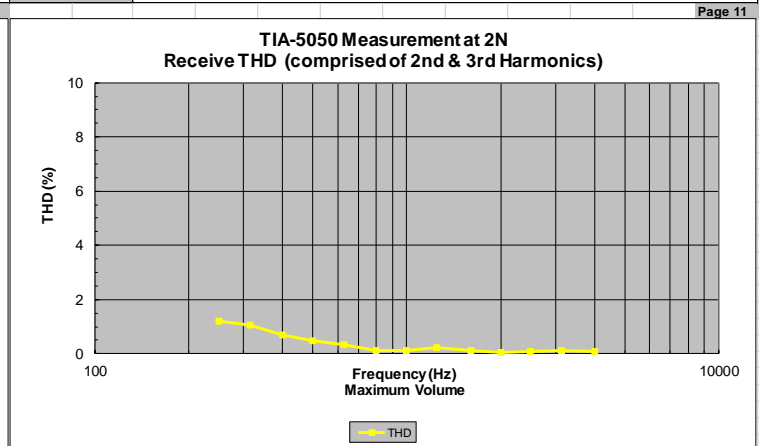
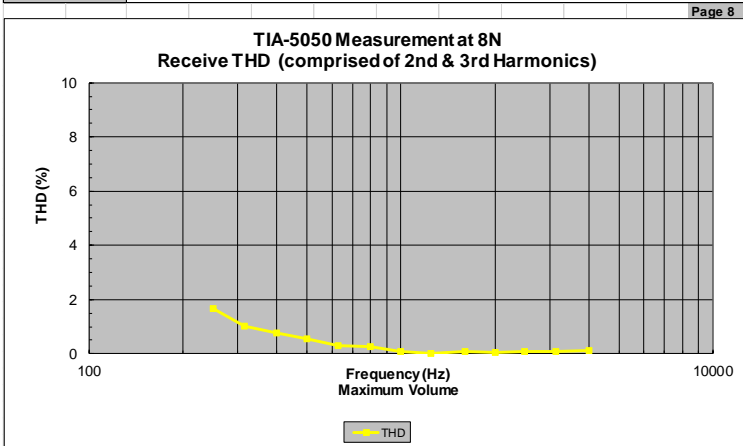
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/10/2024 10:58
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.79 dB	Absolute Limits	PASS	6/10/2024 10:58
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
6/10/2024 10:58
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

Test Date
6/10/2024 10:58
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps



Test Date
6/10/2024 10:58
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

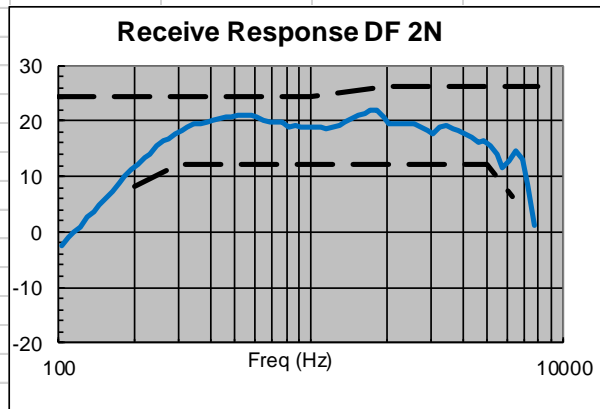
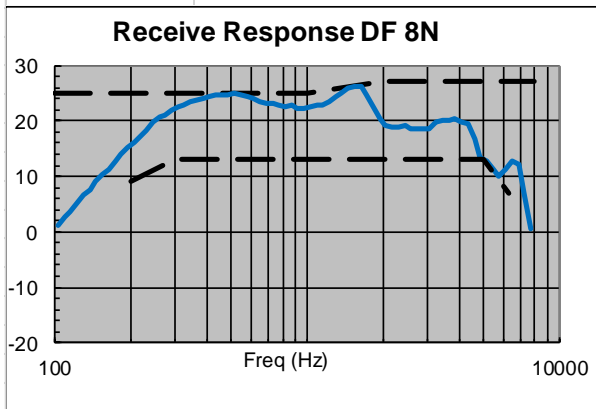
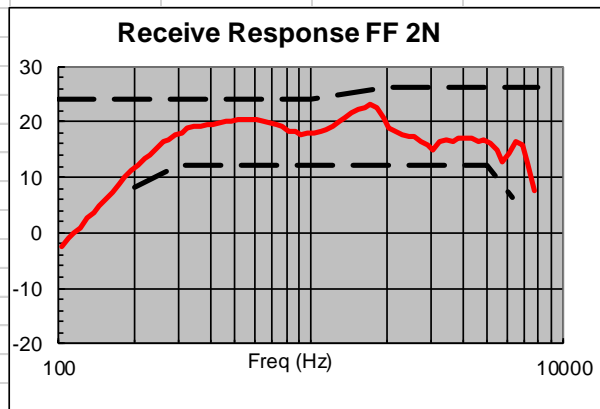
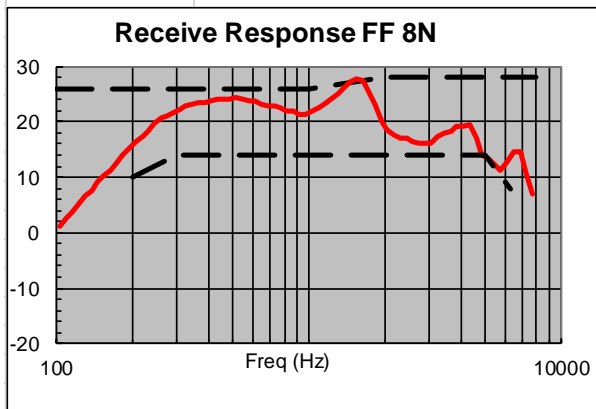
Test Date
6/10/2024 10:58
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
24.4 kbps

**Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 143.4 Mbps
Conversational Gain & Frequency Response Report
TIA-5050 Receive Volume Control Measurements**

Device Under Test:	802.11ax20 EVS-WB
Bandwidth	Wideband
Test Date:	6/10/2024

Frequency Response

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	-0.34 dB	Floating Limits	FAIL	
	Recv resp DF 8N	0 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.8 dB	Floating Limits	PASS	
	Recv resp DF 2N	3.2 dB	Floating Limits	PASS	



Output

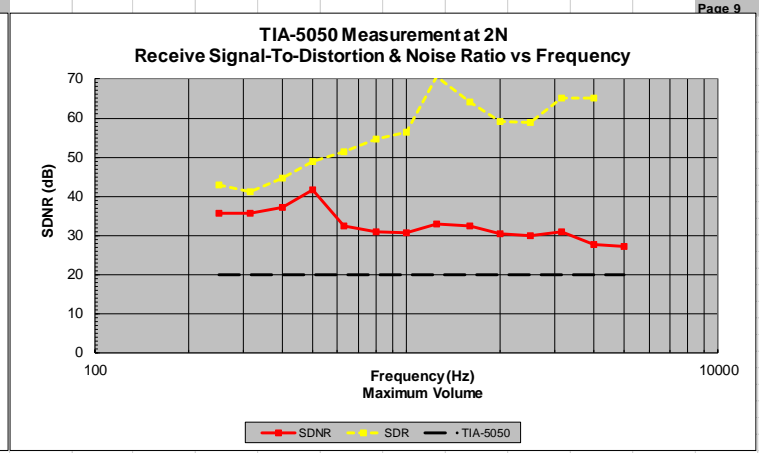
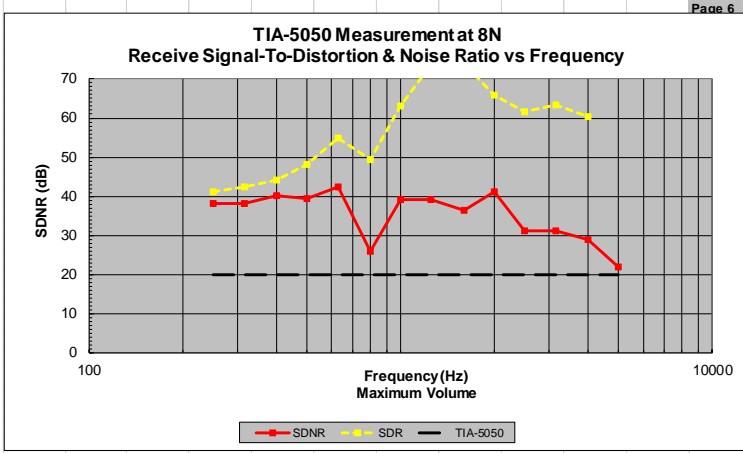
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.25 dB	info only		
	Recv conversational gain 8N	24.25 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.38 dB	info only		
	Recv conversational gain 2N	20.38 dB	6.00	PASS	

Distortion

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	7.25 dB	Absolute Limits	PASS	

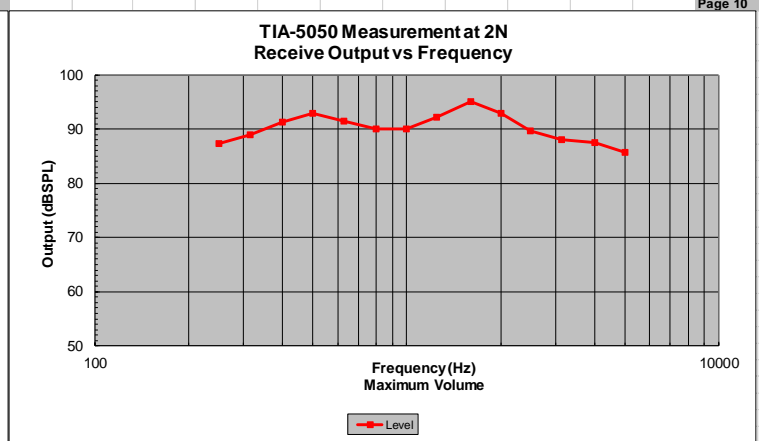
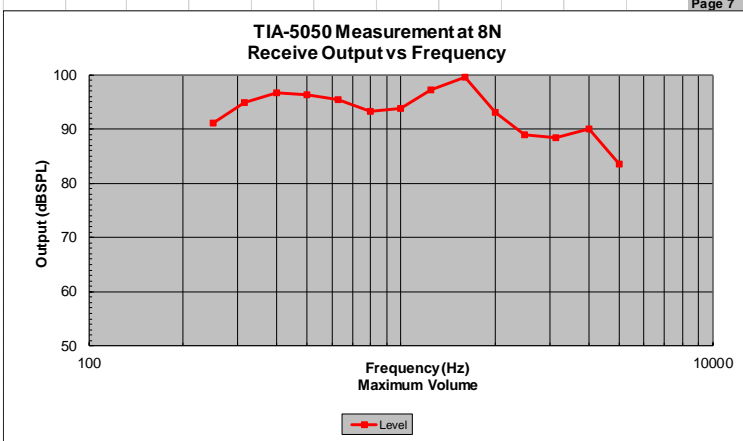
Wi-Fi 5 GHz EVS-WB: 24.4 kbps MCS11 143.4 Mbps

Distortion Report



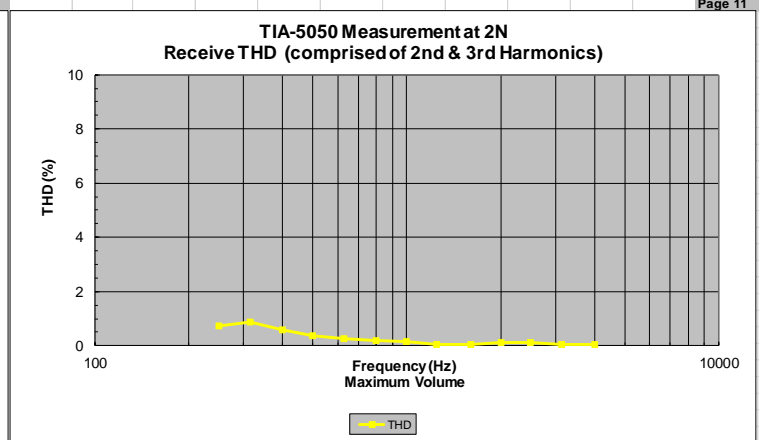
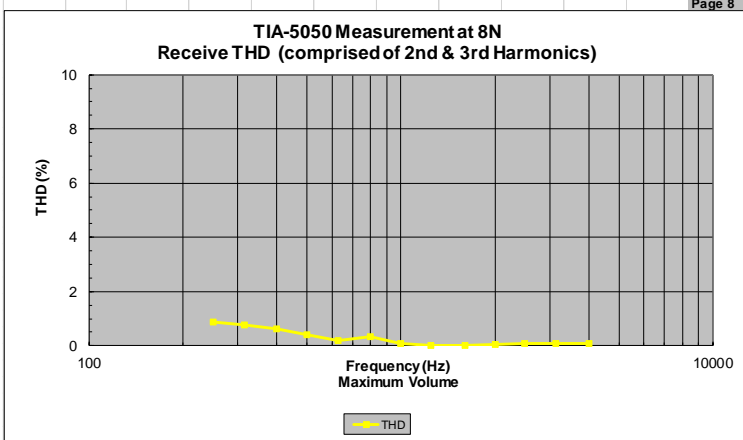
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	6/10/2024 11:37
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	7.25 dB	Absolute Limits	PASS	6/10/2024 11:37
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
6/10/2024 11:37
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/10/2024 11:37
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/10/2024 11:37
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/10/2024 11:37
Stimulus level
Sentence conditioning
Short conditioning
Comments: