

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2024/10/14~16	Temp./Hum.	23 ~ 24°C/59 ~ 62%
Cable Loss	4.47dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Power Spectral Density Result

● OFDM Modulation

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total Power Spectral Density (dBm/1MHz) ^{Note2}	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-9.043	-10.812	N/A	2.46	-4.37	-1
		6175	-9.655	-10.332		2.46	-4.51	
		6415	-9.115	-10.136		2.46	-4.13	
	6	6435	-9.169	-9.869		2.50	-3.99	
		6475	-9.396	-10.815		2.50	-4.54	
		6515	-8.973	-10.608		2.50	-4.20	
	7	6535	-8.981	-10.154		2.31	-4.21	
		6695	-9.792	-9.145		2.31	-4.14	
		6855	-9.179	-9.892		2.31	-4.20	
	8	6875	-9.022	-9.726		2.11	-4.24	
		6995	-9.306	-9.449		2.11	-4.26	
		7115	-18.483	-17.914		2.11	-13.07	
802.11ax-HE40	5	5965	-8.945	-9.346	N/A	2.46	-3.67	-1
		6165	-9.154	-9.517		2.46	-3.86	
		6405	-9.105	-10.094		2.46	-4.10	
	6	6445	-9.086	-10.063		2.50	-4.04	
		6485	-9.095	-10.351		2.50	-4.17	
	7	6525	-8.763	-9.509		2.31	-3.80	
		6685	-9.454	-8.956		2.31	-3.88	
		6845	-8.917	-10.616		2.31	-4.36	
	8	6885	-8.961	-10.177		2.11	-4.41	
		7005	-9.523	-10.006		2.11	-4.64	
		7085	-9.747	-9.059		2.11	-4.27	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total Power Spectral Density (dBm/1MHz) ^{Note2}	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE80	5	5985	-9.945	-10.090	N/A	2.46	-4.55	-1
		6145	-10.152	-10.204		2.46	-4.71	
		6385	-9.745	-10.569		2.46	-4.67	
	6	6465	-9.751	-10.334		2.50	-4.52	
		6545	-9.452	-9.632		2.50	-4.03	
	7	6625	-9.667	-9.174		2.31	-4.09	
		6705	-9.967	-9.467		2.31	-4.39	
		6785	-9.835	-10.034		2.31	-4.61	
	8	6865	-9.309	-10.183		2.11	-4.60	
		6945	-9.422	-9.447		2.11	-4.31	
		7025	-10.182	-9.539		2.11	-4.73	
802.11ax-HE160	5	6025	-9.872	-11.113	N/A	2.46	-4.98	-1
		6185	-10.145	-10.567		2.46	-4.88	
		6345	-9.666	-10.773		2.46	-4.71	
	6	6505	-9.727	-9.676		2.50	-4.19	
		6665	-9.591	-9.332		2.31	-4.14	
	7	6825	-9.647	-9.897		2.31	-4.45	
		6985	-9.995	-9.562		2.11	-4.65	
	8	6985	-9.995	-9.562		2.11	-4.65	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total Power Spectral Density (dBm/1MHz) ^{Note2}	Limit (dBm/MHz)
			AUX	Main				
802.11be-EHT20	5	5955	-10.054	-10.251	N/A	2.46	-4.68	-1
		6175	-10.178	-10.044		2.46	-4.64	
		6415	-9.695	-10.421		2.46	-4.57	
	6	6435	-9.501	-10.181		2.50	-4.32	
		6475	-9.738	-10.551		2.50	-4.62	
		6515	-9.215	-10.063		2.50	-4.11	
	7	6535	-9.261	-9.314		2.31	-3.97	
		6695	-9.938	-9.056		2.31	-4.15	
		6855	-9.325	-9.731		2.31	-4.20	
	8	6875	-9.378	-10.124		2.11	-4.61	
		6995	-9.841	-9.670		2.11	-4.63	
		7115	-17.908	-16.964		2.11	-12.29	
802.11be-EHT40	5	5965	-9.408	-9.876	N/A	2.46	-4.17	-1
		6165	-9.458	-10.123		2.46	-4.31	
		6405	-8.876	-9.521		2.46	-3.72	
	6	6445	-9.054	-9.396		2.50	-3.71	
		6485	-9.336	-9.334		2.50	-3.82	
	7	6525	-8.781	-9.052		2.31	-3.59	
		6685	-9.318	-9.188		2.31	-3.93	
		6845	-9.068	-9.853		2.31	-4.12	
	8	6885	-8.573	-9.524		2.11	-3.90	
		7005	-9.636	-9.446		2.11	-4.42	
		7085	-9.813	-8.731		2.11	-4.12	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total Power Spectral Density (dBm/1MHz) ^{Note2}	Limit (dBm/MHz)
			AUX	Main				
802.11be-EHT80	5	5985	-9.687	-9.569	N/A	2.46	-4.16	-1
		6145	-9.883	-9.825		2.46	-4.38	
		6385	-9.594	-9.811		2.46	-4.23	
	6	6465	-9.728	-9.715		2.50	-4.21	
		6545	-9.377	-9.199		2.50	-3.78	
		6625	-9.375	-9.083		2.31	-3.91	
	7	6705	-9.839	-9.312		2.31	-4.25	
		6785	-9.588	-9.853		2.31	-4.40	
	8	6865	-9.189	-10.415		2.11	-4.64	
		6945	-9.440	-9.716		2.11	-4.46	
		7025	-9.489	-9.311		2.11	-4.28	
802.11be-EHT160	5	6025	-9.841	-9.971	N/A	2.46	-4.44	-1
		6185	-10.236	-10.190		2.46	-4.74	
		6345	-9.776	-10.362		2.46	-4.59	
	6	6505	-9.614	-9.650		2.50	-4.12	
		6665	-9.584	-8.849		2.31	-3.88	
		6825	-9.496	-9.739		2.31	-4.30	
	8	6985	-9.596	-9.391		2.11	-4.37	
		6105	-10.037	-9.884		2.46	-4.49	
802.11be-EHT320	5	6265	-9.609	-9.927	N/A	2.46	-4.29	-1
		6425	-9.521	-10.073		2.46	-4.32	
		6585	-9.452	-9.414		2.50	-3.92	
	7	6745	-9.156	-9.265		2.31	-3.89	
		6905	-10.786	-10.493		2.11	-5.52	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

● OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note2	Limit (dBm/MHz)
					AUX	Main				
26T	18	802.11ax-HE80	7	6625	-7.568	-7.819	N/A	2.31	-2.37	-1
52T	52	802.11ax-HE160	7	6665	-9.938	-7.957	N/A	2.31	-3.52	
106T	53	802.11ax-HE160	8	6825	-10.213	-8.823	N/A	2.31	-4.14	
242T	62	802.11ax-HE1160	7	6665	-9.390	-7.798	N/A	2.31	-3.20	
484T	66	802.11ax-HE80	7	6625	-10.821	-8.091	N/A	2.31	-3.92	
996T	67	802.11ax-HE160	6	6505	-10.430	-8.940	N/A	2.31	-4.30	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note2	Limit (dBm/MHz)
					AUX	Main				
26	T36	802.11be-EHT320	6	6585	-10.151	-9.201	N/A	2.50	-4.14	-1
52	T52	802.11be-EHT320	6	6585	-9.786	-8.184	N/A	2.50	-3.40	
106	T56	802.11be-EHT320	6	6585	-9.296	-8.036	N/A	2.50	-3.11	
242	T64	802.11be-EHT320	6	6585	-9.445	-8.252	N/A	2.50	-3.30	
484	T66	802.11be-EHT320	6	6585	-9.564	-8.119	N/A	2.50	-3.27	
996	T67	802.11be-EHT320	6	6585	-9.214	-8.614	N/A	2.50	-3.39	
996x2	S68	802.11be-EHT320	6	6585	-10.142	-9.462	N/A	2.50	-4.28	
26+52	70	802.11be-EHT20	7	6515	-8.921	-8.735	N/A	2.50	-3.32	
26+52	70	802.11be-EHT40	7	6685	-10.153	-8.086	N/A	2.31	-3.68	
26+106	82	802.11be-EHT20	7	6515	-9.083	-8.860	N/A	2.50	-3.46	
26+106	82	802.11be-EH40	7	6685	-10.377	-7.732	N/A	2.31	-3.54	
484+242	90	802.11be-EHT80	6	6545	-9.528	-8.924	N/A	2.50	-3.71	
996+484	S95	802.11be-EHT160	6	6505	-10.152	-9.173	N/A	2.50	-4.12	
996+484+242	S96	802.11be-EHT160	6	6505	-10.890	-8.902	N/A	2.50	-4.27	
996x2+484	100	802.11be-EHT320	6	6585	-10.040	-8.329	N/A	2.50	-3.59	
996x3	104	802.11be-EHT320	5	6425	-10.727	-9.255	N/A	2.46	-4.46	
996x3+484	W106	802.11be-EHT320	5	6265	-10.298	-9.149	N/A	2.46	-4.22	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

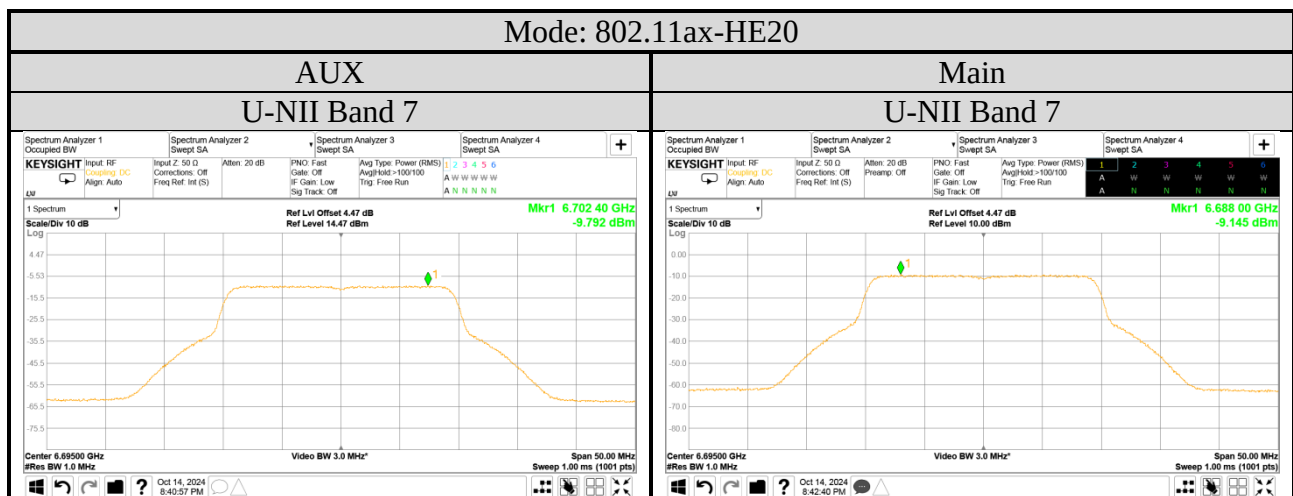
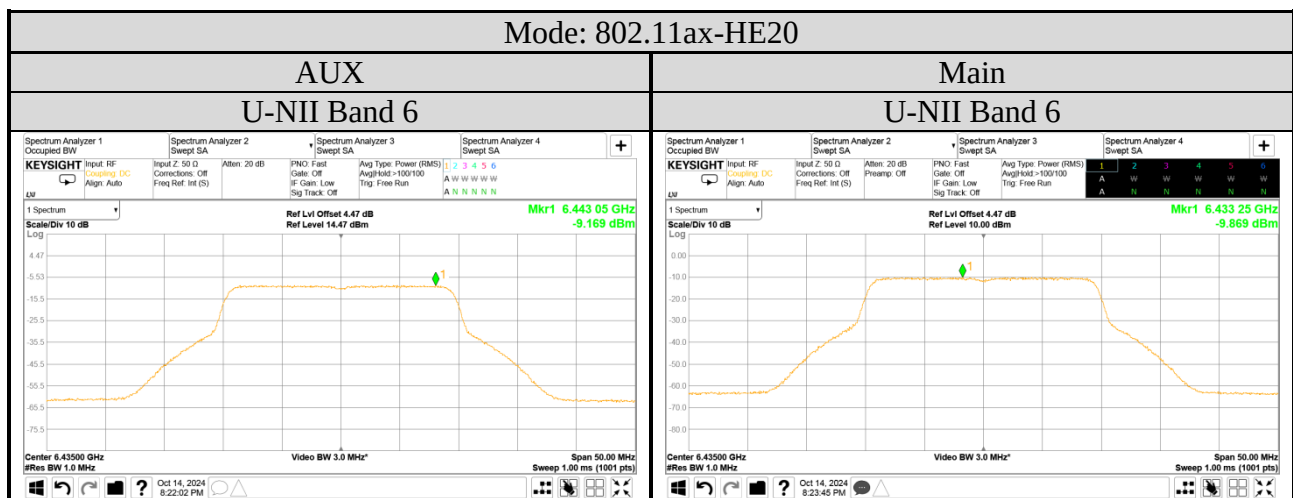
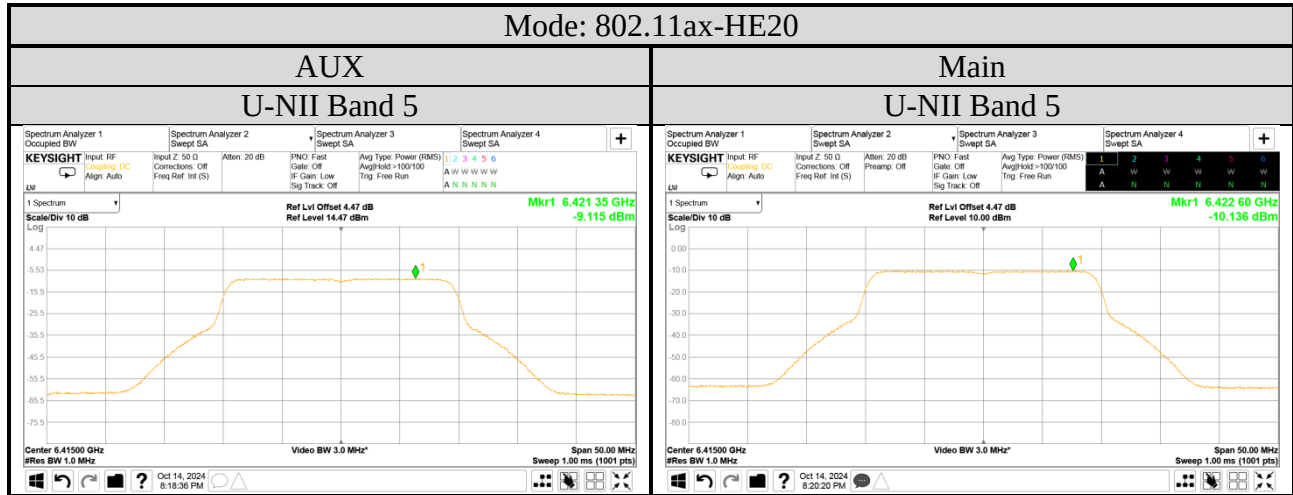
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

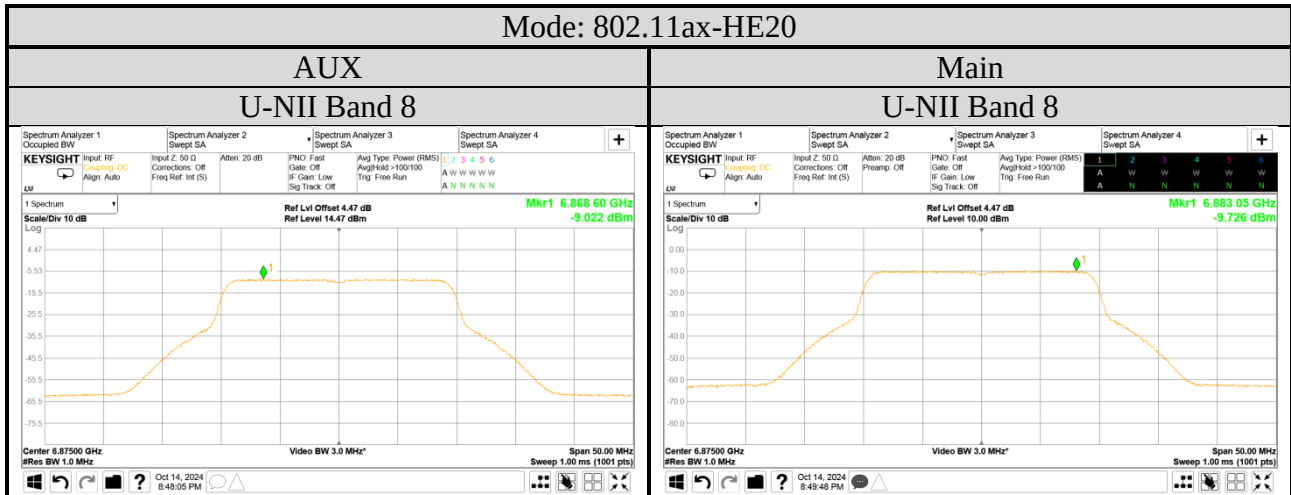
A.3.2 Measurement Plots

● OFDM Modulation



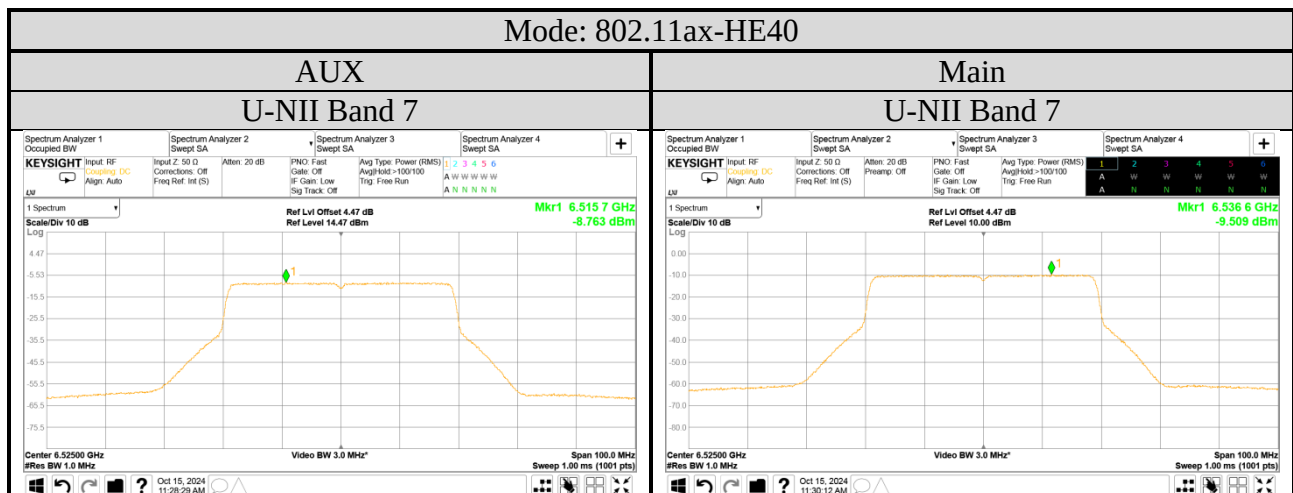
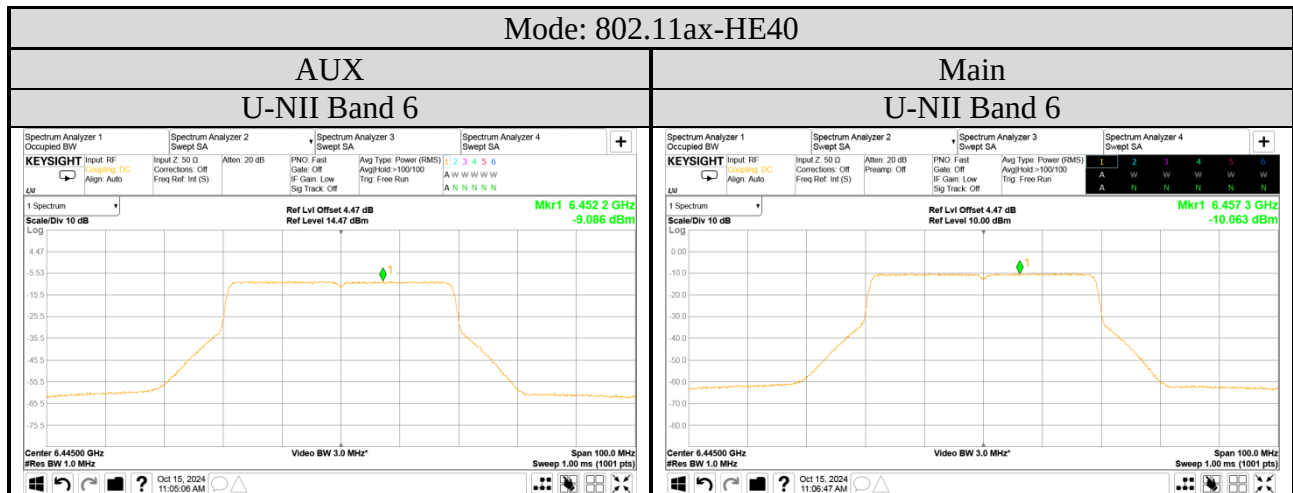
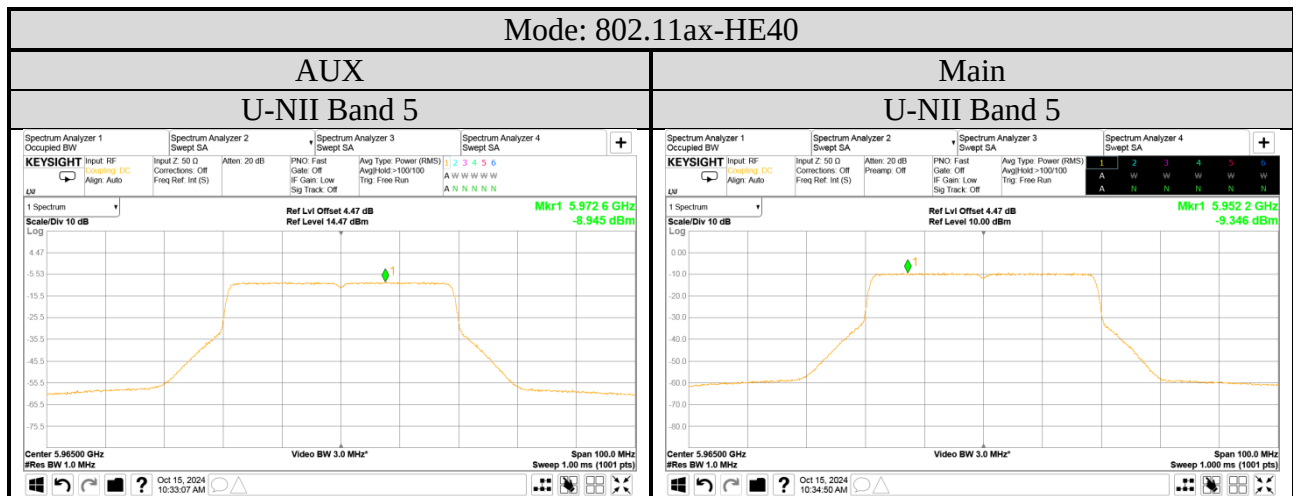
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



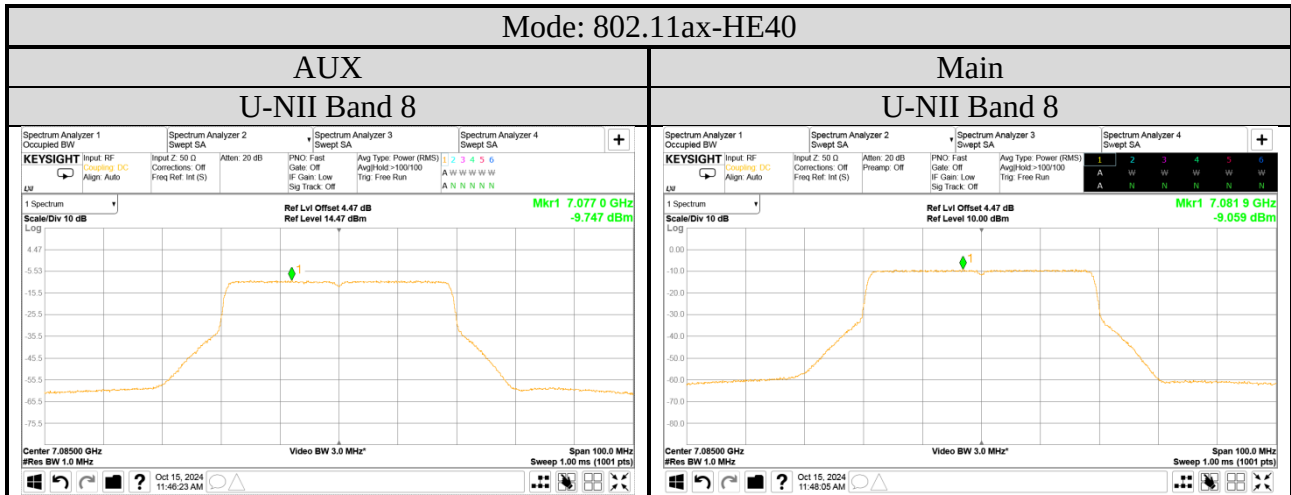
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

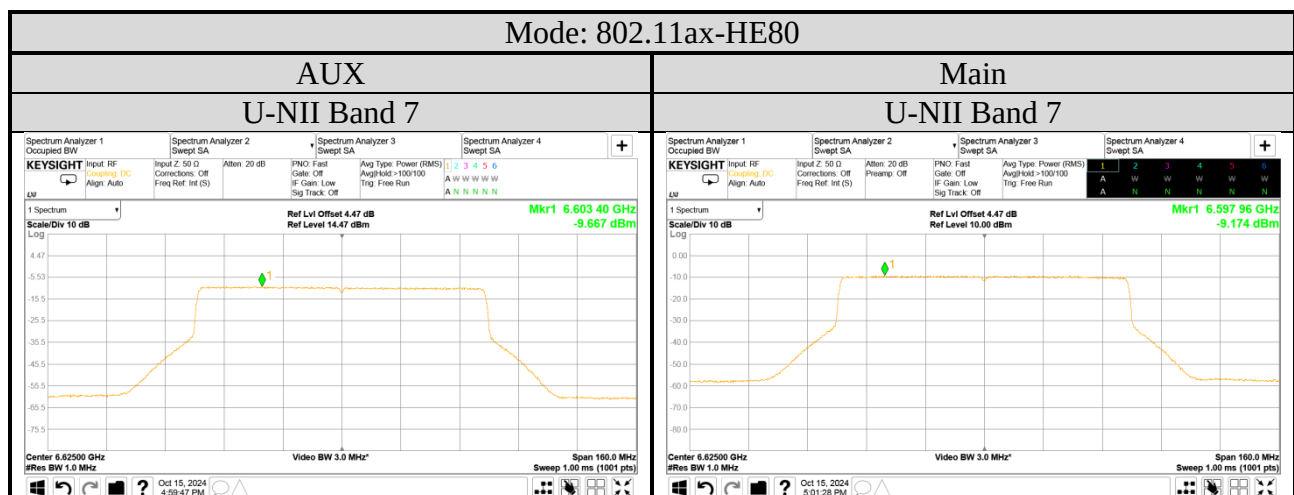
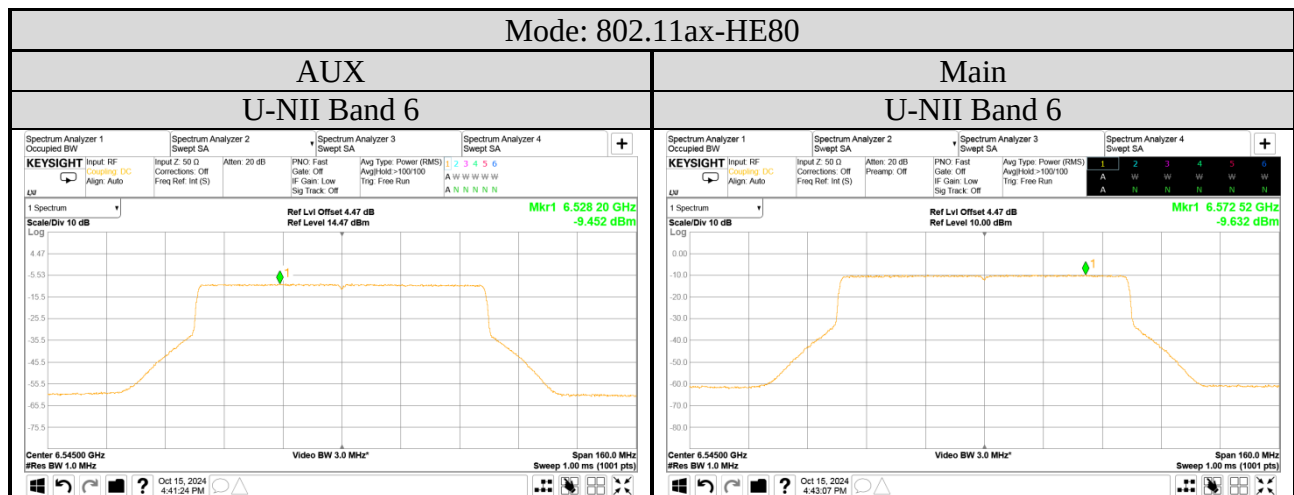
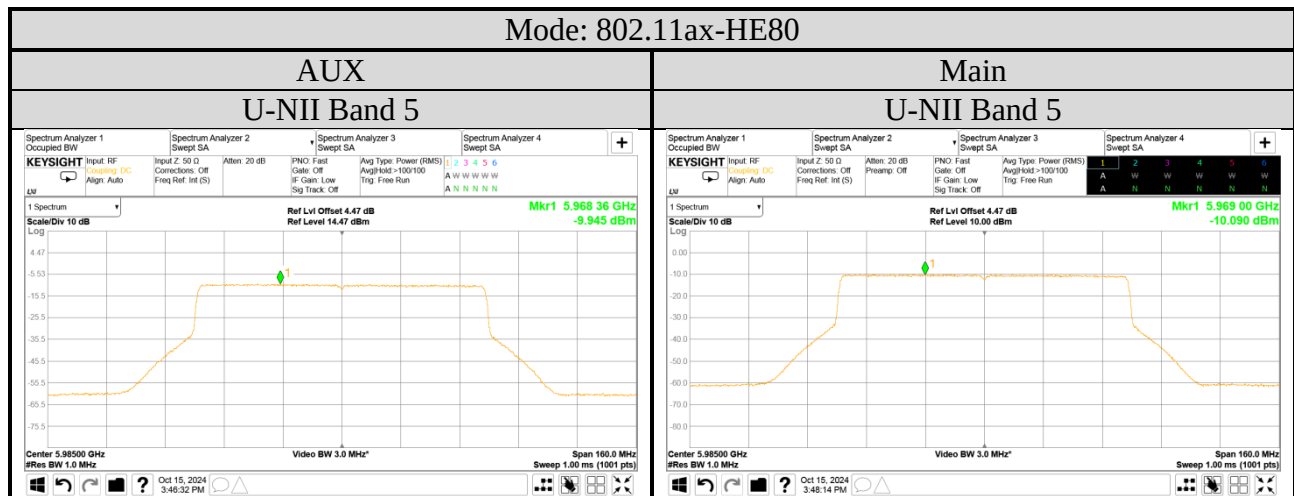
Tel: +886 2 26099301
Fax: +886 2 26099303



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

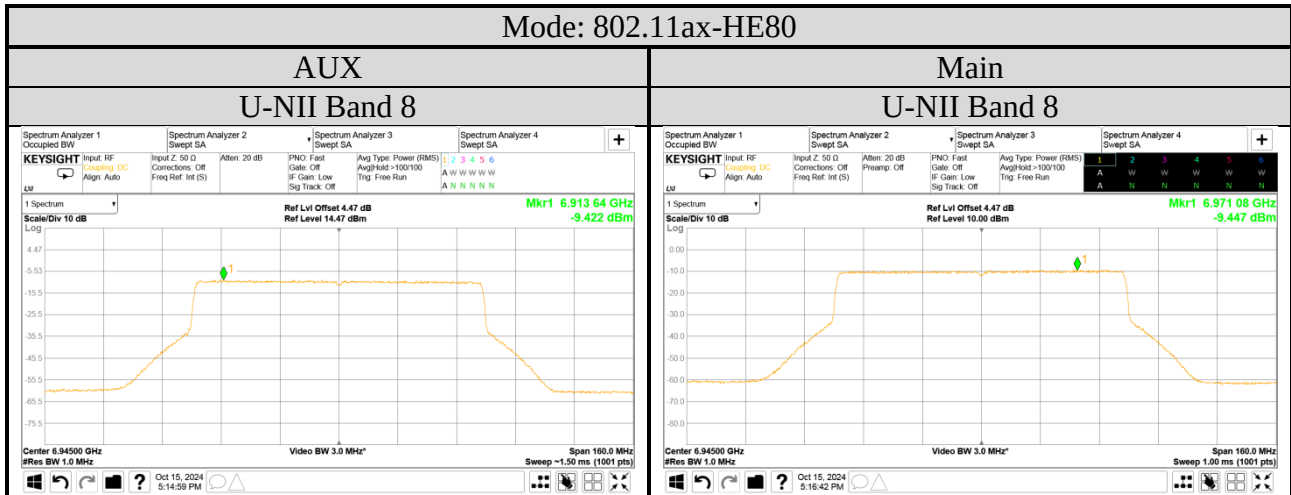
Tel: +886 2 26099301
Fax: +886 2 26099303





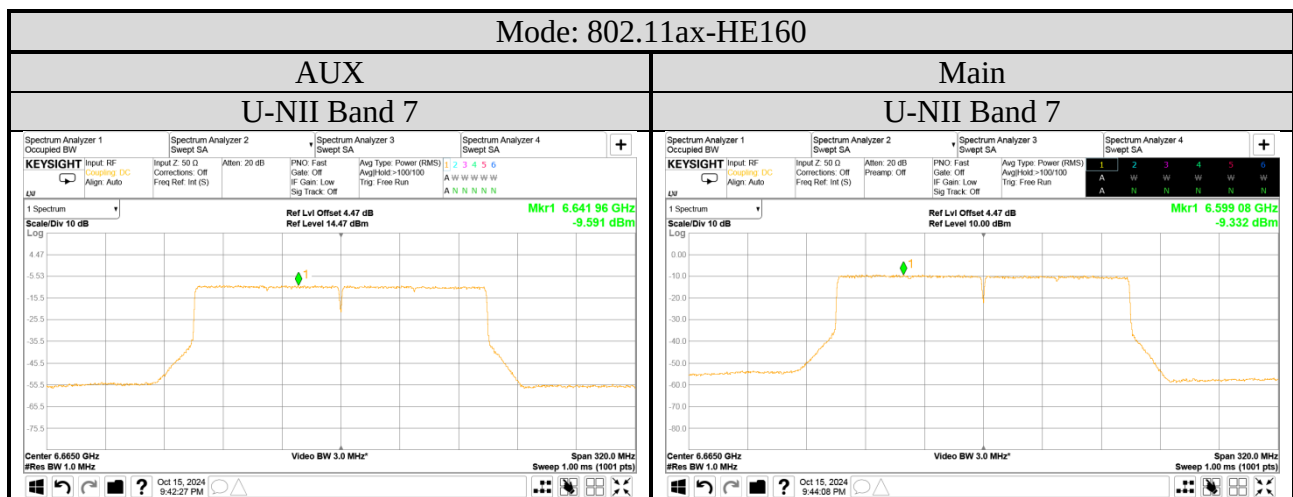
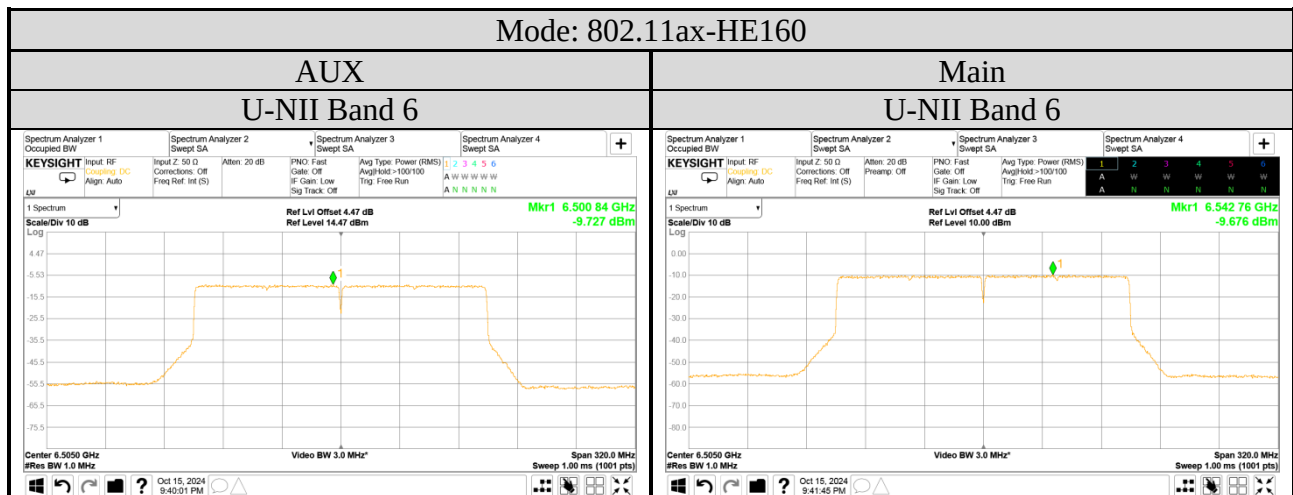
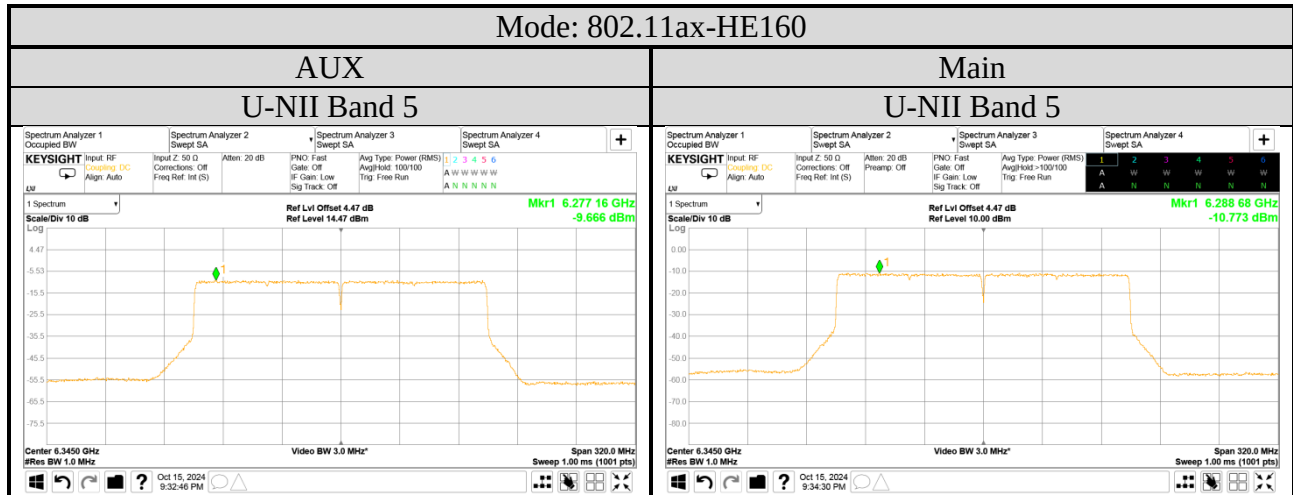
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



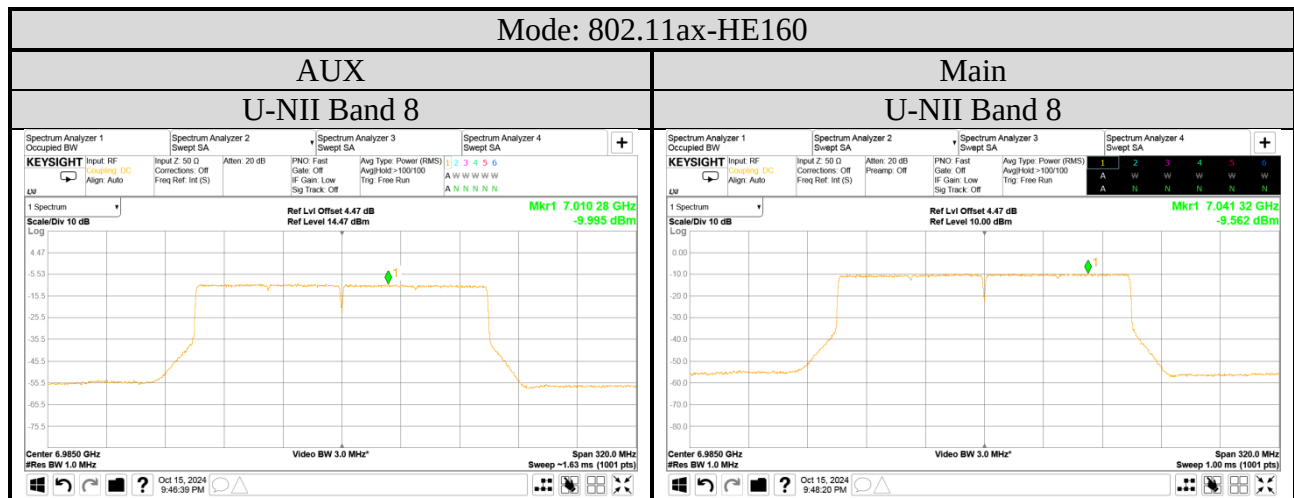
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

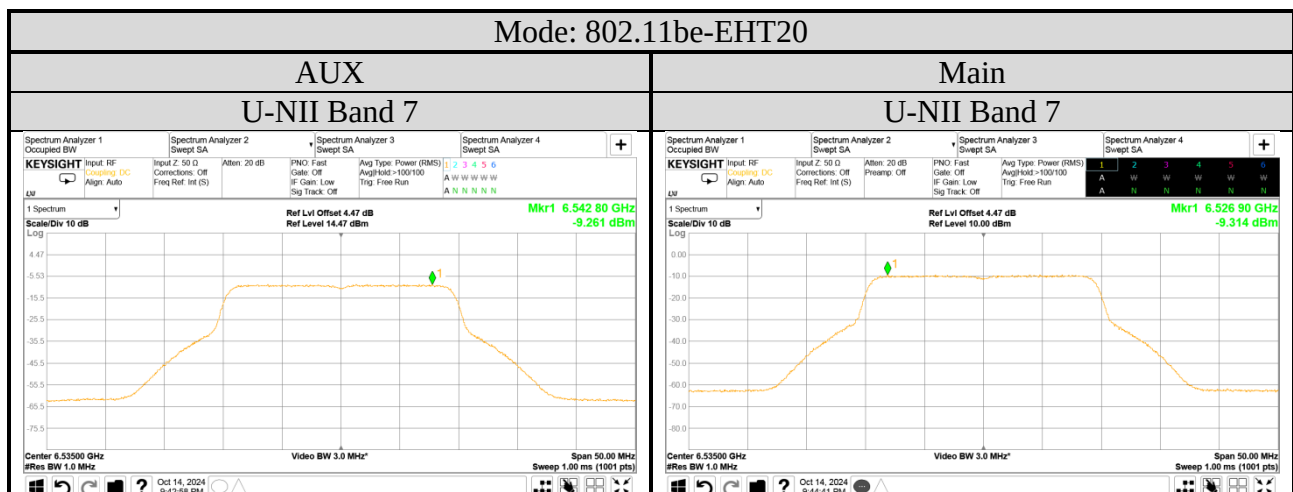
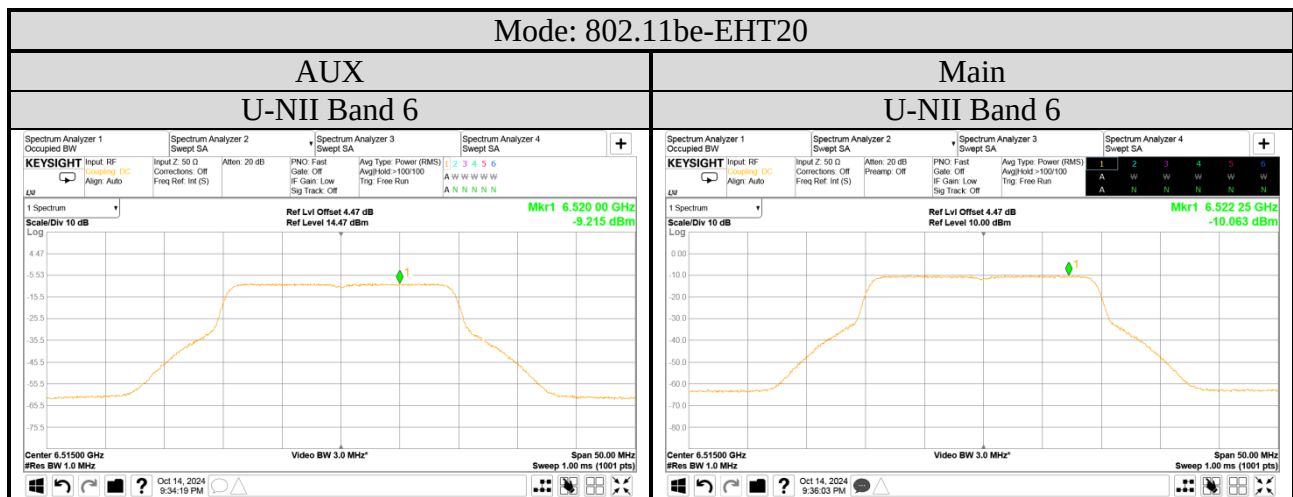
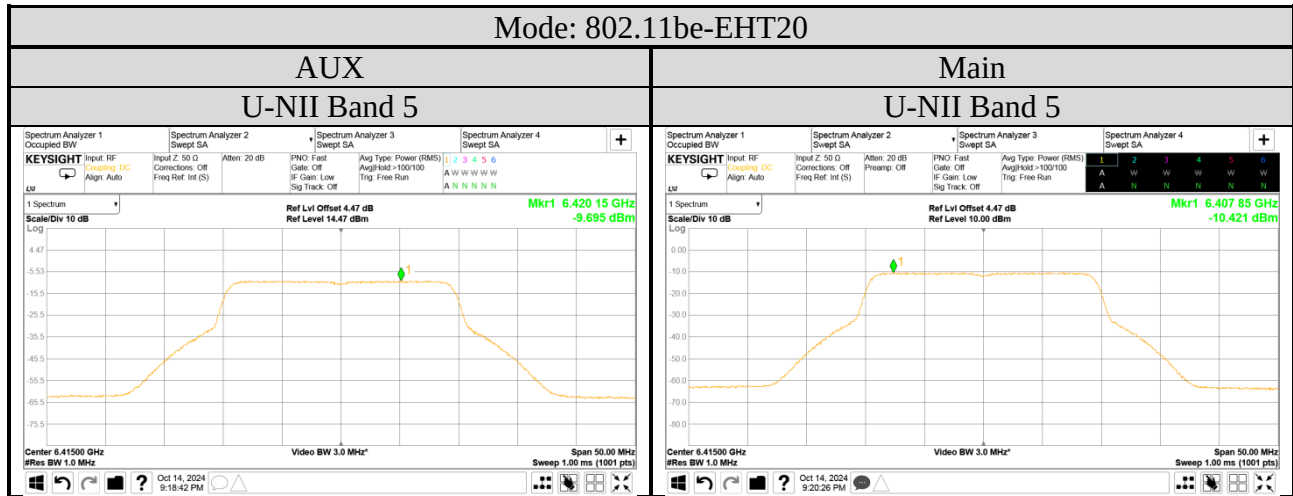
Tel: +886 2 26099301
Fax: +886 2 26099303



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

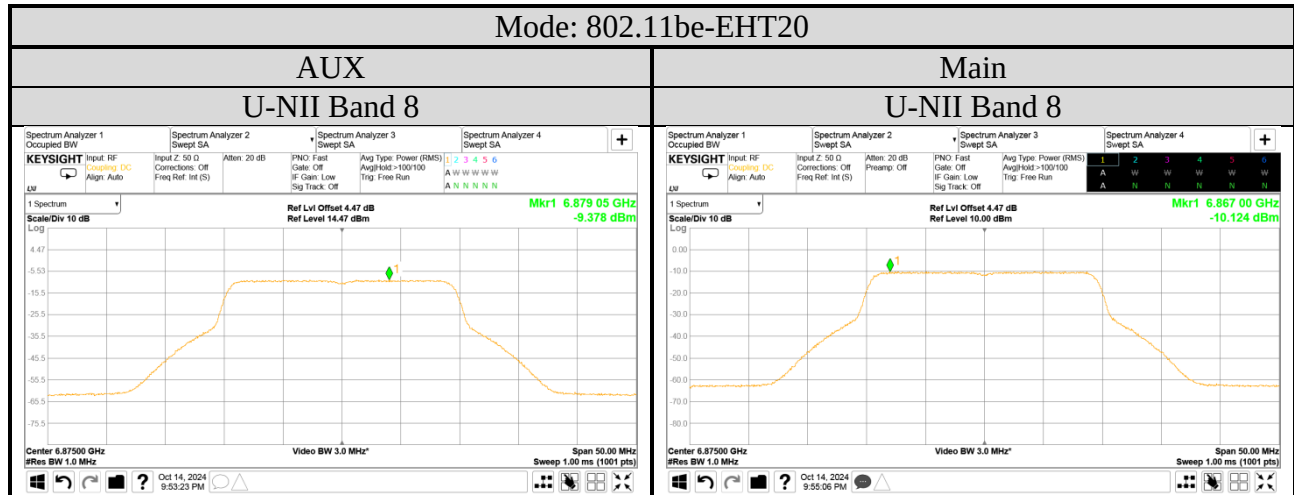
Tel: +886 2 26099301
Fax: +886 2 26099303





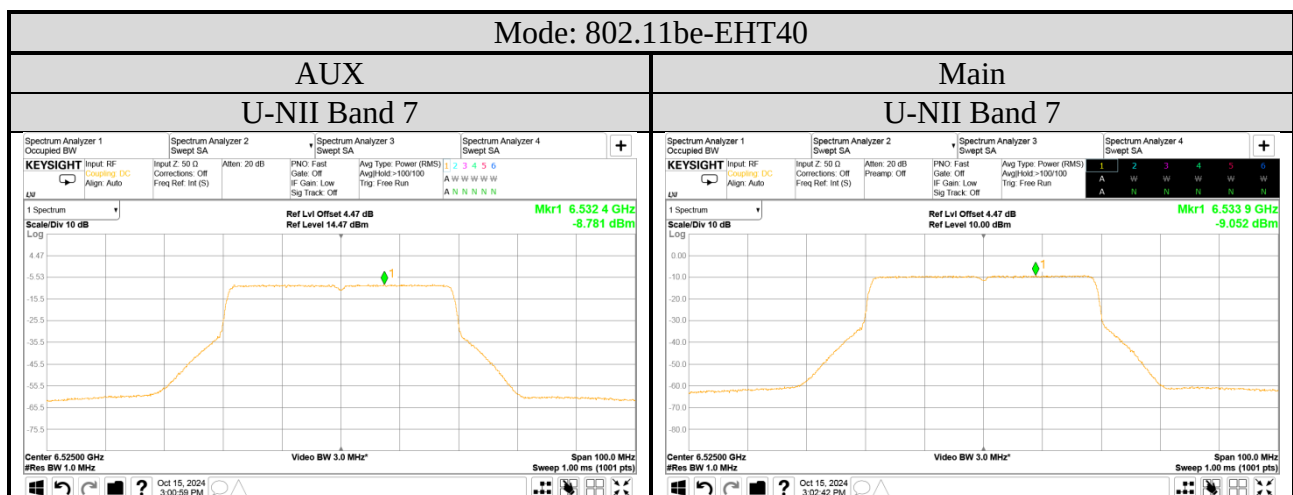
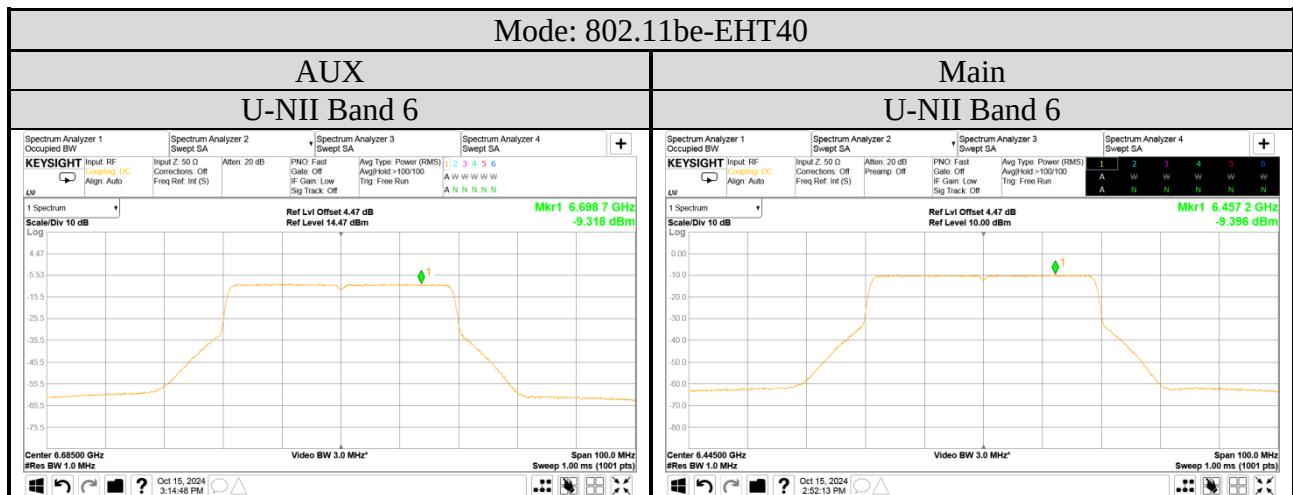
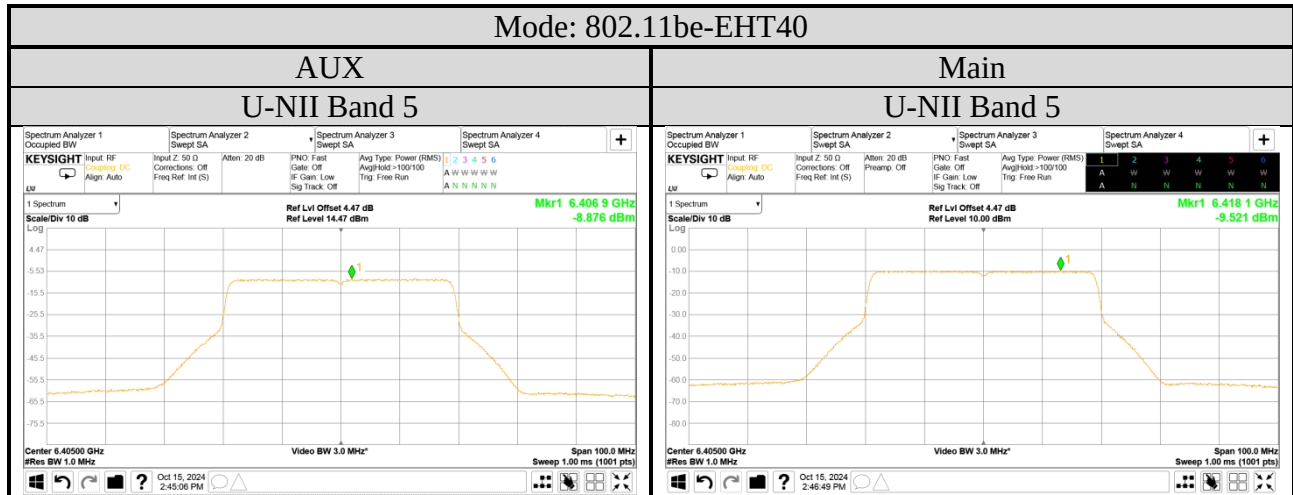
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



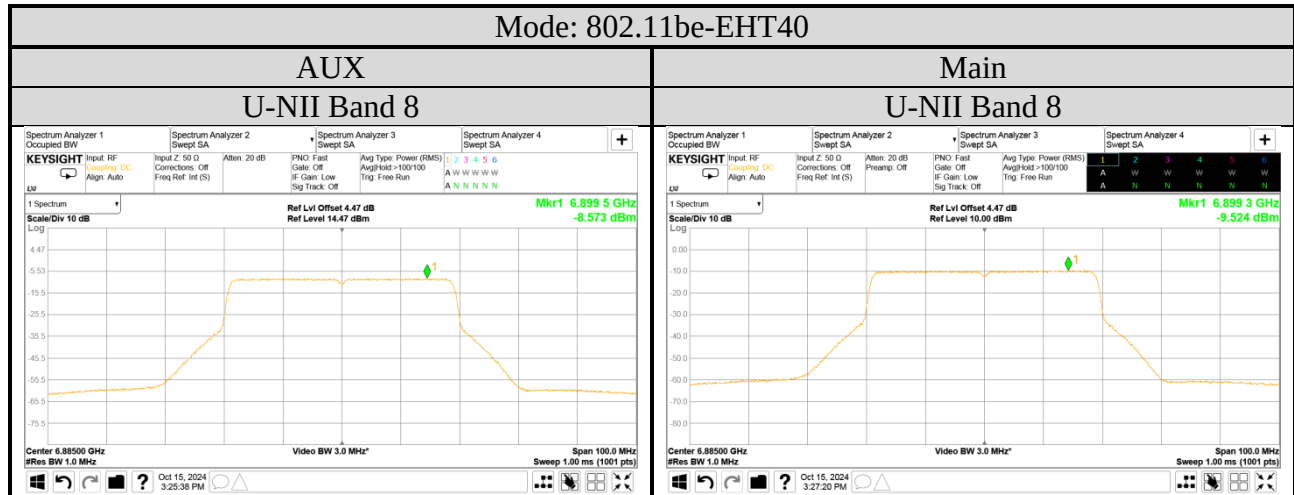
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



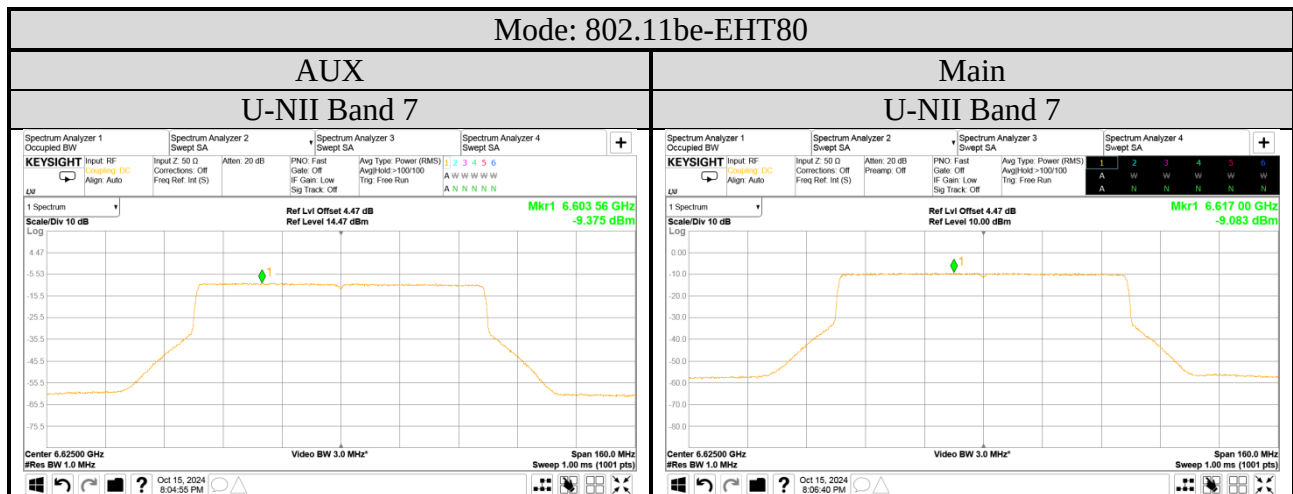
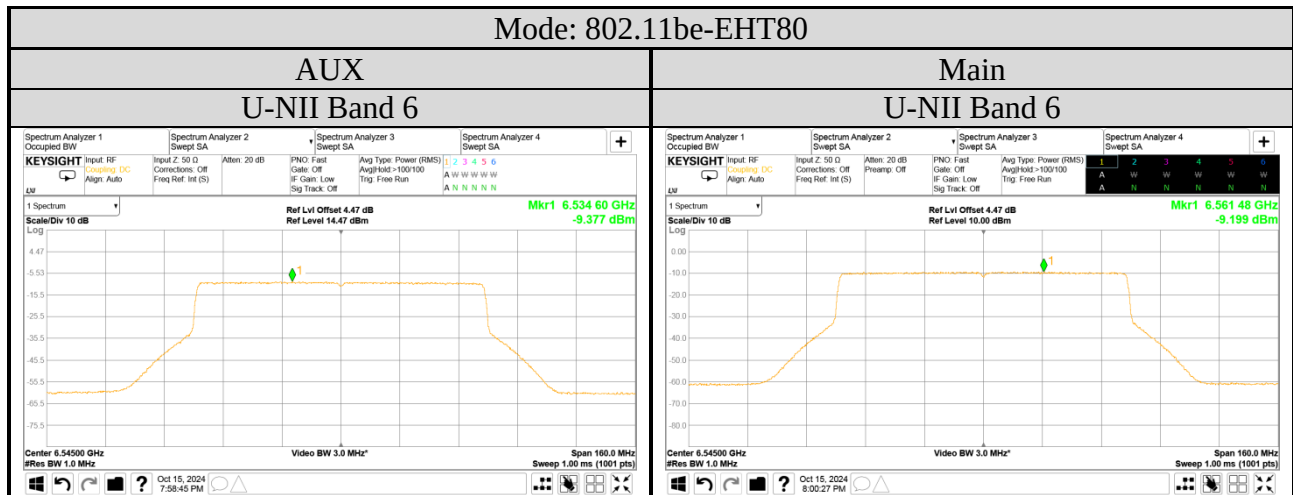
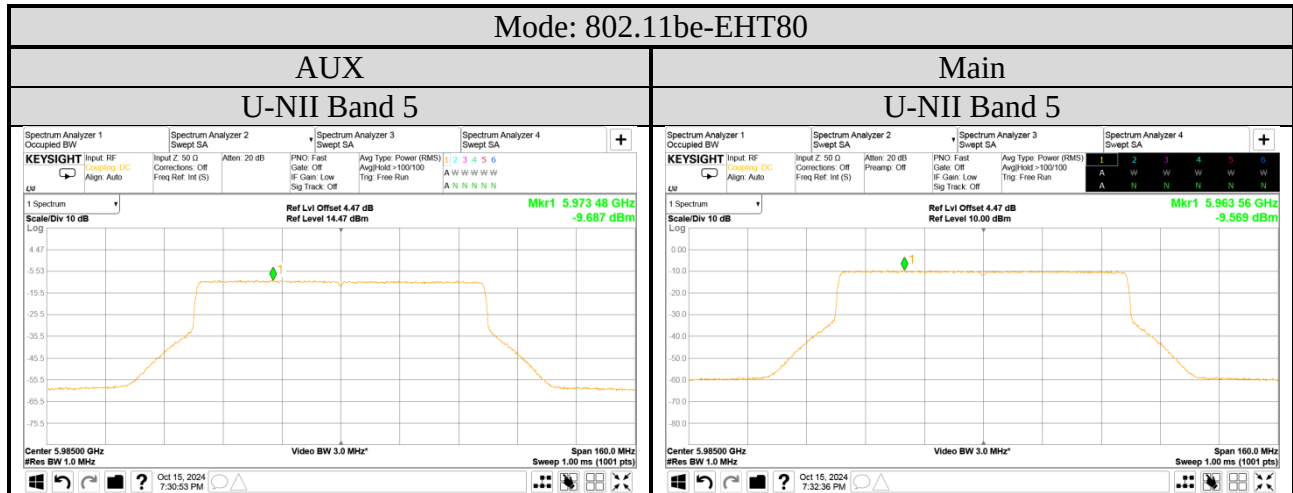
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



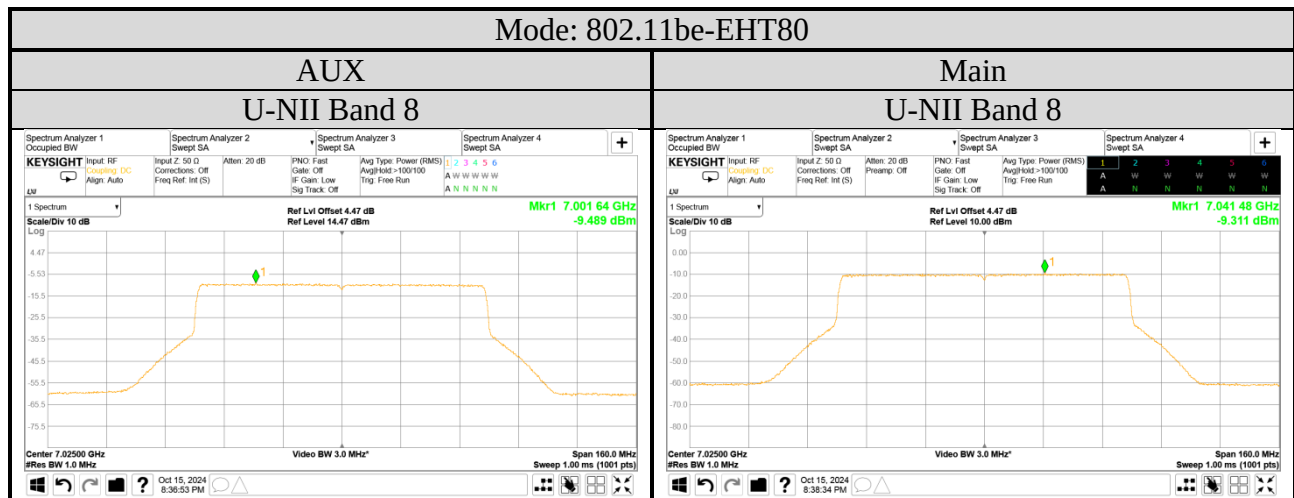
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



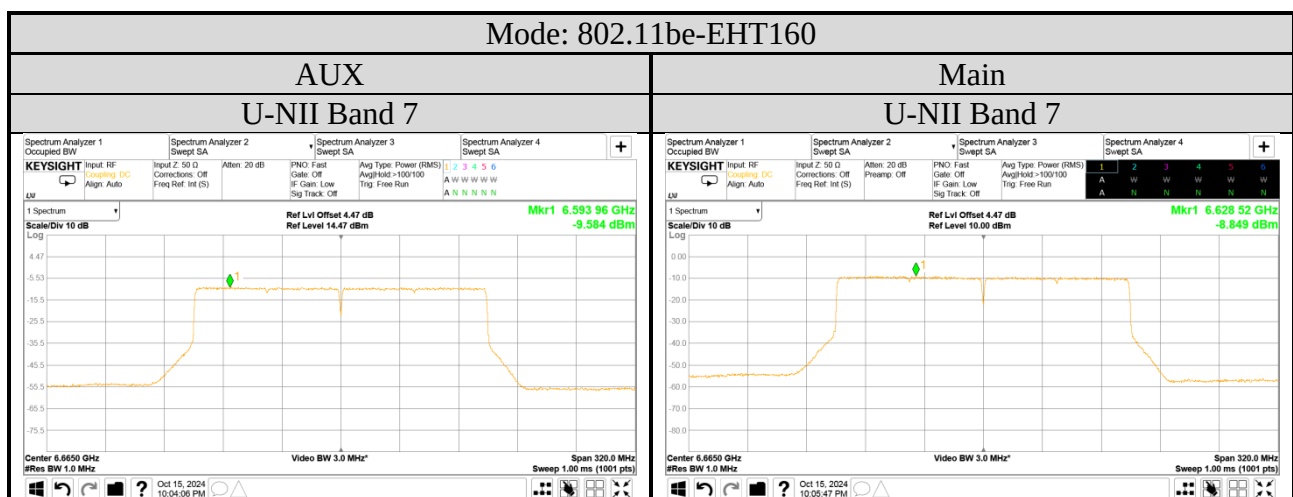
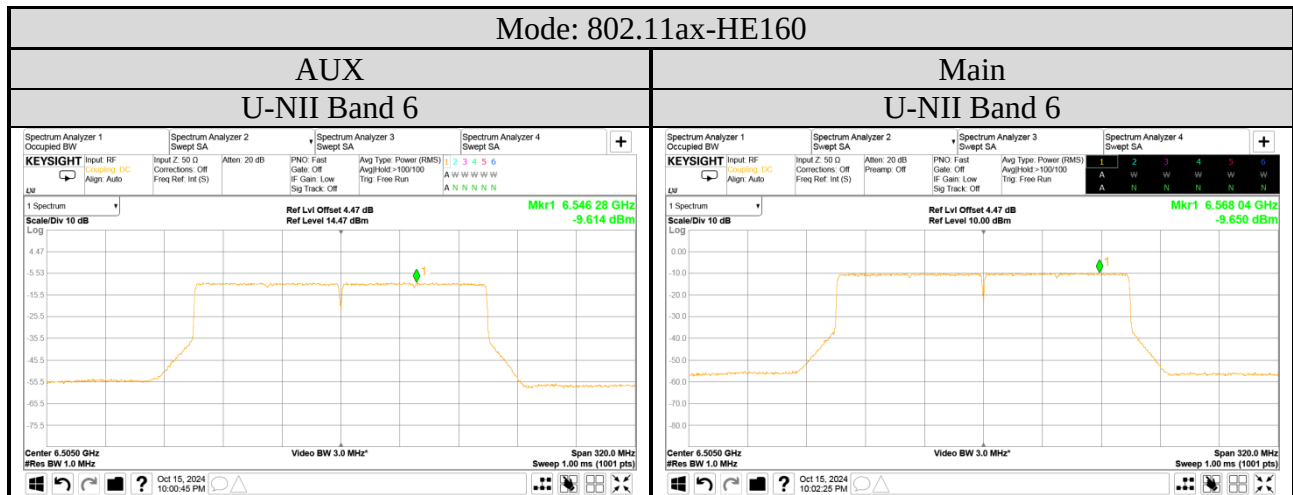
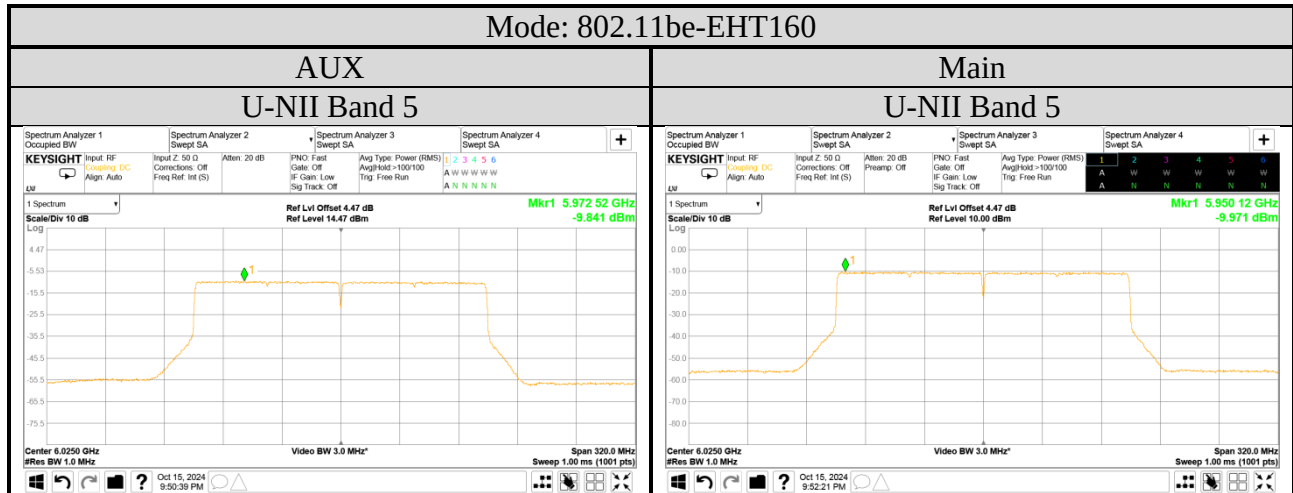
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



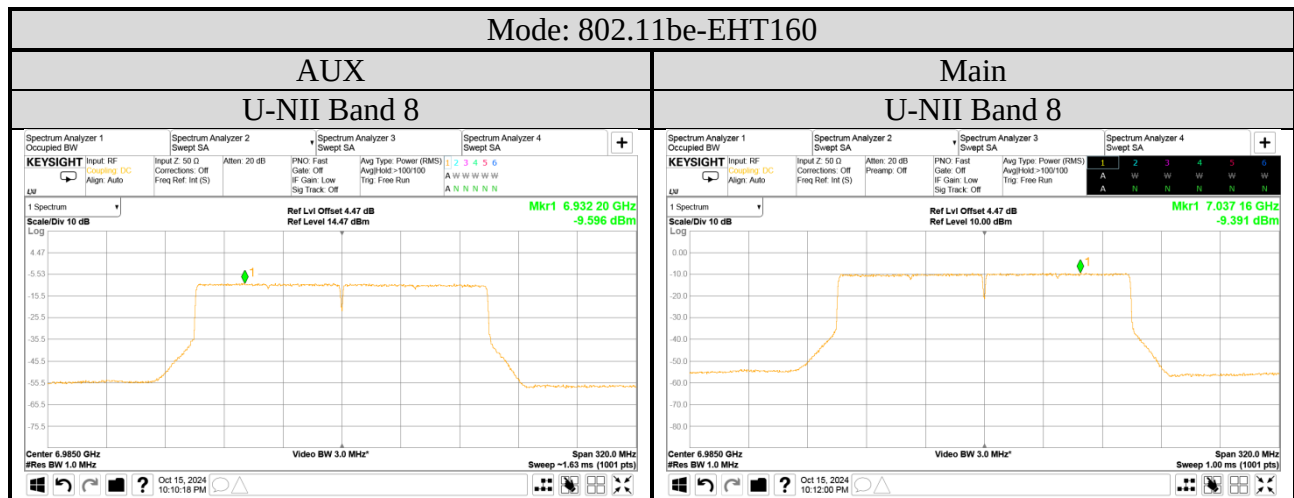
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

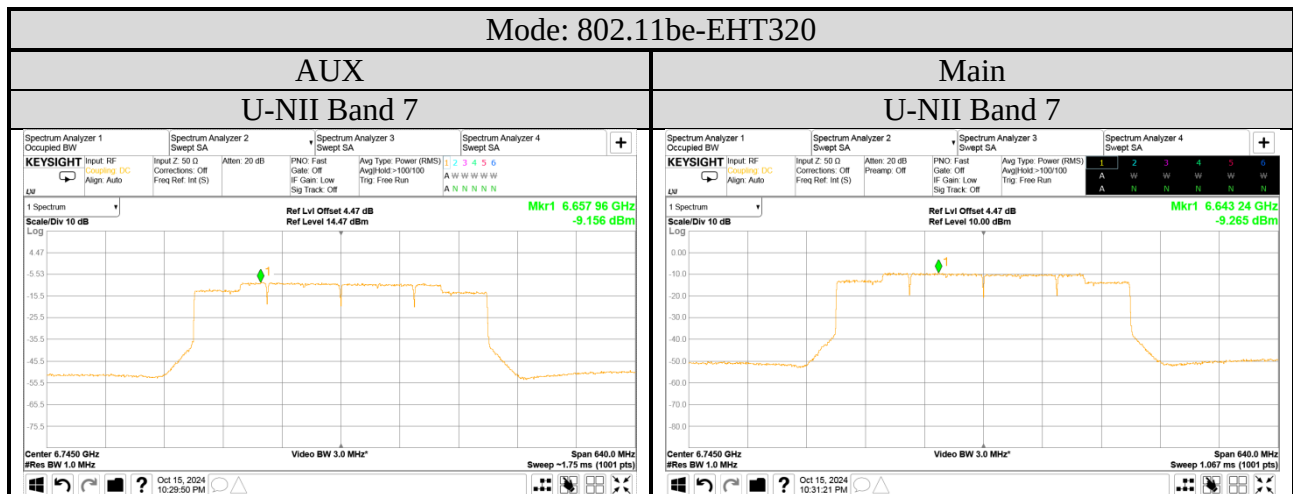
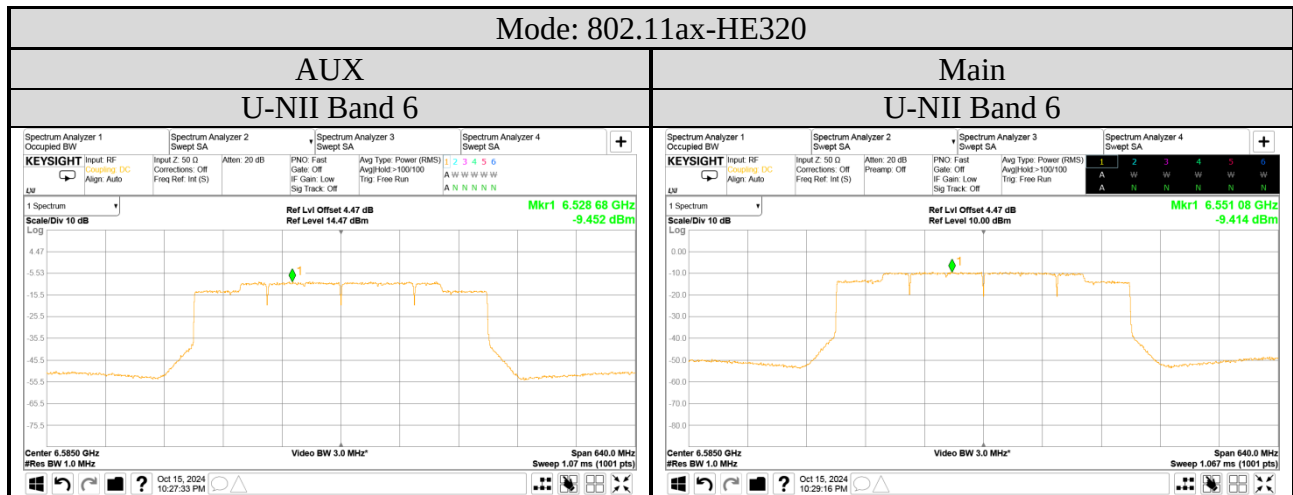
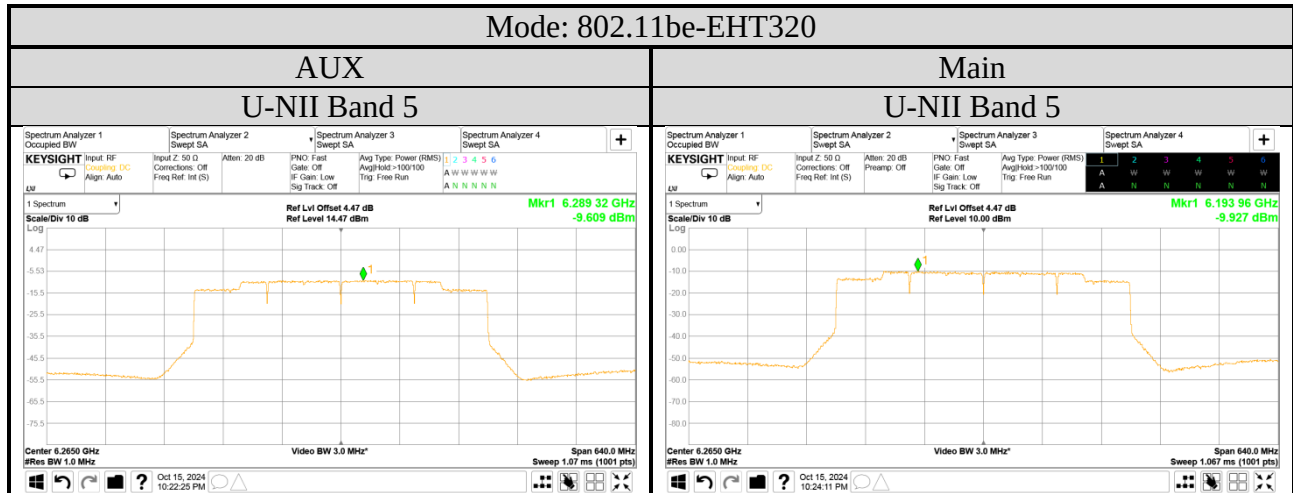
Tel: +886 2 26099301
Fax: +886 2 26099303



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303





Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

